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AN ANALYSIS OF THE TEXTUAL RELATIONSHIPS OF  
SELECTED MINUSCULE MANUSCRIPTS FROM  
GROUP M IN THE GOSPEL OF JOHN

A Dissertation  
Submitted to the Faculty  
of the  
New Orleans Baptist Theological Seminary

In Partial Fulfillment  
of the Requirements for the Degree  
Doctor of Philosophy  
in the Division of Biblical Studies

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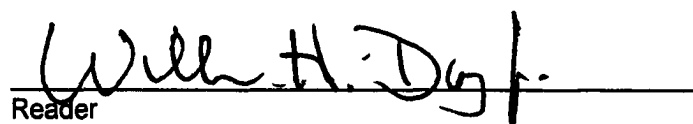
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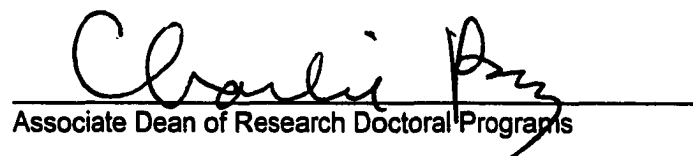
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To  
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## ABBREVIATIONS

CNTTS	The Center for New Testament Textual Studies
CPM	Claremont Profile Method
GNT	Greek New Testament
IGNTP	International Greek New Testament Project
MS	Manuscript
MSS	Manuscripts
NOBTS	New Orleans Baptist Theological Seminary
NTTC	New Testament Textual Criticism
QA	Quantitative Analysis
TR	Textus Receptus
UBS	United Bible Societies

ABSTRACT

AN ANALYSIS OF THE TEXTUAL RELATIONSHIPS OF  
SELECTED MINUSCULE MANUSCRIPTS FROM  
GROUP M IN THE GOSPEL OF JOHN

George F. Husk, Ph.D.  
New Orleans Baptist Theological Seminary, 2002  
Faculty Advisor: Dr. William F. Warren, Jr.,  
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Director of the Center for New Testament Textual Studies

The purpose of the dissertation was to determine the textual relationships in the Gospel of John of selected manuscripts from Group M in Luke. Manuscripts 1194, 1202, 1220, 1222, 1237, and 1458 were fully collated twice in the Gospel of John by the researcher. Manuscripts 1242 and 1342 were fully collated once in John by the researcher. The researcher also produced reconciled final collations. The final collations were analyzed by means of quantitative analysis.

The completion of the full collations of the eight manuscripts benefited the International Greek New Testament Project, The Center for New Testament Textual Studies, and

New Testament textual critics. The multiple quantitative analyses performed on the selected manuscripts demonstrated the value of combining full collations with computer-generated analysis. The detailed textual relationships verified the location of the selected manuscripts within the textual tradition of the Greek New Testament and revealed specific characteristics about individual manuscripts.

Chapter 1 included an introduction to the field and the methodologies employed for the presentation of the study. Chapter 2 included a description of the background and characteristics of each of the selected manuscripts. Chapter 3 included the data derived from the collations and the results of the quantitative analyses. The analyses were based on individual chapters, groupings of chapters, and the entire text of John.

The analyses confirmed that the selected manuscripts are a near homogeneous group, most closely related to the Byzantine text-type. The study demonstrated that manuscript 1220 should not be associated with the other selected manuscripts beyond general Byzantine affiliation. The analyses also confirmed that manuscript 1194 is a core member of the M10 group. The study further demonstrated

that manuscripts 1202 and 1237 are very closely related and possibly constitute the existence of an inner group within the M group.

## INTRODUCTION

While scholars differ on the various nuances of the way in which New Testament textual criticism (NTTC) is performed, the major purposes of the discipline have found near universal acceptance. The primary purpose of NTTC is to determine the original text of the New Testament. The secondary purpose is to discover the history of the transmission, preservation, and corruption of the text.<sup>1</sup> In achieving these aims, researchers have relied chiefly upon information gathered from the papyri and early uncial manuscripts (MSS) containing the majuscule text. Until recently, little energy has been spent on examining the minuscule MSS.

The disregard for the minuscule MSS is more than intellectual oversight. The minuscule MSS offer several challenges to the potential researcher. The numerous

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<sup>1</sup>Epp suggests the textual critic enter into this process with an awareness of both the scientific and artistic nature of the materials and the study. Eldon J. Epp, "Ancient Texts and Versions of the New Testament," *The New Interpreter's Bible*, vol. 8, ed. E. Keck (Nashville: Abingdon Press, 1995), 2.

minuscule MSS make the prospect of a full and complete critical apparatus a daunting task. The relative late dates of the minuscule MSS mean that, for many, the arduous job of collation is not worth the small reward it yields. In addition, the monumental work of Westcott and Hort relegated the minuscules to a lesser position by giving precedence to the earlier MSS.

The minuscules, however, offer the patient researcher several tools for the examination of the textual tradition. They are helpful sometimes in clarifying how the earlier majuscule MSS are related to one another. In addition, the field of NTTC is enhanced by the minuscules in the following three ways. First, the minuscules help to complete the Greek text apparatus with full access to all the significant witnesses for establishing the original text. Second, the minuscules aid in clarifying the history of the transmission of the text through the analysis of the relationships of a given manuscript (MS) or group of MSS to others. Third, on the basis of the above studies, the minuscules can help to establish the original text.<sup>2</sup>

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<sup>2</sup>Barbara Aland and Klaus Wachtel, "The Greek Minuscule Manuscripts of the New Testament," in *The Text of the New Testament in Contemporary Research: Essays on the Status Quaestionis*, ed. Bart D. Ehrman and Michael W. Holmes,

The analysis of the eight minuscule MSS selected for this study aims to determine both their readings and their specific textual characteristics, with implications for the history of the textual transmission of the Gospel of John. The final harmonized collations were submitted to the International Greek New Testament Project (IGNTP) for inclusion in the forthcoming volumes of John. Since this work was not previously accomplished, the collations themselves added to the importance of this study.

#### *The Research Problem*

The research problem was to analyze the textual relationships of selected MSS from group M. The textual relationships were demonstrated by collating the MSS, recording the collations, and evaluating the results through quantitative analysis (QA).<sup>3</sup> The following MSS were analyzed: 1194, 1202, 1220, 1222, 1237, 1242, 1342, and 1458. William F. Warren, Jr. of the Center for New Testament Textual Studies (CNTTS) selected the MSS. Since

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Studies and Documents, ed. Eldon J. Epp, vol. 46 (Grand Rapids: William B. Eerdmans Publishing Company, 1995), 47.

<sup>3</sup>The specific application of QA to the present study is outlined in chapter 1.

these MSS have shown affinities in previous studies,<sup>4</sup> the hypothesis of this dissertation is that the selected MSS will show a distinguishable textual affinity among themselves in the Gospel of John.

### *The State of Research*

The beginning of textual criticism as a discipline in New Testament studies may be traced to the period surrounding the publication of the first printed GNT in 1516. The first GNT relied heavily on the Byzantine tradition. This Byzantine textual tradition, largely promoted by the work of Theodore Beza and Stephanus in the mid to late 1500s, dominated NTTC for over three hundred years. Dutch printers Abraham and Bonaventura Elzivir tagged the new edition with its now famous title with a statement in the preface of their second edition: "Textum ergo habes, nunc ab omnibus receptum: in quo nihil

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<sup>4</sup>Group M is roughly equivalent to von Soden's  $I^{\phi r}$ . For the classification of Group M see Frederik W. Wisse, *The Profile Method for the Classification and Evaluation of Manuscript Evidence as Applied to the Continuous Greek Text of the Gospel of Luke*, Studies and Documents, ed. Irving Alan Sparks, vol. 44 (Grand Rapids: William B. Eerdmans Publishing Company, 1970), 100.



immutatum aut corruptum damus.”<sup>5</sup> So widespread was the acceptance of this text that it eventually became known as the *Textus Receptus* (TR).

Beginning with the 1550 edition of Stephanus, founded upon the earlier work by Erasmus, provided the factual basis for what became known as the TR. In 1551, Stephanus produced his fourth edition and added the versification that is still maintained. Likely, his desire to produce a concordance of the Greek New Testament (GNT) led him to create the numbering system.<sup>6</sup> With all of his achievements, Stephanus would end up in the shadow of Beza, who produced nine editions of the GNT. Beza’s editions of the GNT undergird the translation of the King James Version in 1611, despite the fact that the basis of the text was “essentially a handful of late and haphazardly collected

<sup>5</sup>Translated as “you have now the text received by all: in which we give no alteration or corruption” this (*Textus Receptus*) became the label for both the ensuing editions and the text itself.

<sup>6</sup>J. Keith Elliott and Ian Moir, *Manuscripts and the Text of the New Testament* (Edinburgh: T. and T. Clark, 1995), 78.

minuscule manuscripts."<sup>7</sup> Until 1831 all work in the field relied on the TR to some degree.

Rejecting the superiority of the TR, Karl Lachmann published a GNT in 1831 with no reliance on the TR. Lachmann chose a fresh evaluation of variants from early MSS and versions (though he did not appear to have many in hand), thus denying the validity of the TR based on the late date of the MSS used in its compilation. His work helped establish the foundation for future critical editions of the Greek text.

Constantin von Tischendorf (1815-77) produced the most extensive work in the preparation of critical editions prior to the twentieth century.<sup>8</sup> He published twenty-two volumes of MS texts and eight critical editions of the GNT.<sup>9</sup> His eighth edition included both a comprehensive critical apparatus of all variants found in each MS he had studied and the variants noted in the works of others to which he

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<sup>7</sup>Bruce M. Metzger, *The Text of the New Testament: Its Transmission, Corruption, and Restoration*, 3d ed. (Oxford: Oxford University Press, 1992), 106. Metzger suggests that known Greek witnesses do not support the text in a dozen passages.

<sup>8</sup>Ibid., 126.

<sup>9</sup>Caspar Gregory, "Tischendorf," *Bibliotheca Sacra* 33 (1876): 153-93.

had access. His most enduring contribution was the amount of evidence that he gathered.<sup>10</sup>

Some of the methodology von Tischendorf used for the gathered evidence was questioned. For instance, some rejected his preference for the readings of Codex Sinaiticus, the landmark majuscule MS which he had recently discovered. This criticism aside, the work of von Tischendorf helped to change dramatically the course of New Testament textual criticism from a gathering of information to the processing of information.

Brooke Foss Westcott and Fenton John Anthony Hort in their two-volume *The New Testament in the Original Greek*<sup>11</sup> took up the work of von Tischendorf (and others) and greatly enlarged the work of NTTC. They evaluated the variants catalogued by earlier scholars to determine the best text for the GNT. The description of their method of

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<sup>10</sup>B. F. Westcott and F. J. A. Hort, *Introduction to the New Testament in the Original Greek* (New York: Harper Brothers, 1882; reprint, Peabody: Hendrickson Publishers, 1988), 13-14 (page citations are to the reprint edition).

<sup>11</sup>B. F. Westcott and F. J. A. Hort, *The New Testament in the Original Greek*, 2 vols. (New York: Harper Brothers, 1881-82). The first volume contained the text, and the second volume contained an introduction and appendix.

evaluation provided a new standard for the practice of textual criticism in New Testament studies.

Westcott and Hort proposed that a proper methodology should begin with an examination involving the internal evidence for a given reading. They suggested that the next step was to examine the internal evidence from the document in which a reading is found. A determination of the genealogical (external) evidence about the document was the capstone of their methodology.<sup>12</sup>

The so-called genealogical method gave preference to external evidence and resulted in the grouping of texts into broad categories of Neutral, Alexandrian, Western, and Syrian (more commonly known since that time as the Byzantine) text-types. Westcott and Hort considered the Neutral and Alexandrian text-types the most reliable.<sup>13</sup> Westcott and Hort's preference for the Neutral and Alexandrian texts has not been universally accepted. Some

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<sup>12</sup>Westcott and Hort, *Introduction to the New Testament in the Original Greek*, 19-72.

<sup>13</sup>*Ibid.*, 90-134. The principles by which the Byzantine was rejected are stated in Eldon Jay Epp and Gordon D. Fee, *Studies in the Theory and Method of New Testament Textual Criticism*, Studies and Documents, vol. 45 (Grand Rapids: William B. Eerdmans Publishing Company, 1993), 22.

researchers ardently defend the more recent Byzantine text-type.<sup>14</sup>

Another major contributor to the grouping of MSS produced what some believed to be the "most monumental edition of the Greek New Testament that has appeared thus far in the twentieth century."<sup>15</sup> Hermann Freiherr von Soden (1852-1914) organized a team of scholars and students that examined a huge number of MSS. Von Soden produced a massive two-volume work containing a critical text and apparatus,

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<sup>14</sup>For an overview of the defenders of the Byzantine text, see Harry Sturz, *The Byzantine Text Type and New Testament Textual Criticism* (Nashville: Thomas Nelson Publishers, 1984); and Zane Clark Hodges and Arthur L. Farstadt, eds., *The Greek New Testament According to the Majority Text* (Nashville: Thomas Nelson Publishers, 1992). For other reactions specifically to Wescott and Hort, see Leon Vaganay, *An Introduction to New Testament Textual Criticism*, rev. Christian-Bernard Amphoux, trans. Jenny Heimerdinger (Cambridge: Cambridge University Press, 1991), 152-54.

<sup>15</sup>Metzger, 139. Silva later declared that the publication of the two volumes of Luke by the IGNTP was the most significant contribution of the second half of the twentieth century. For his defense of this proposal see Moisés Silva, "Modern Critical Editions and Apparatuses," in Bart D. Ehrmann and Michael Holmes, eds., *The Text of the New Testament in Contemporary Research, Studies and Documents*, vol. 46 (Grand Rapids: William B. Eerdmans Publishing Company, 1995), 293.

his views on the history of the text, and his principles for constructing the text.<sup>16</sup>

Von Soden rejected Gregory's system of MS classification and created his own.<sup>17</sup> This system was known for, and largely rejected because of, its complexity. He posited three major groups: I (Western and Caesarean), H (Alexandrian and Neutral), and K (Byzantine). Within each of these groups von Soden established several subgroups. From these groupings the IGNTP would later begin its work.

Von Soden's work was monumental. More recent scholarship has shown, however, that it was not without problems. Von Soden's system contains several obvious errors that have been shown to be highly problematic. In addition, the complexity of the sigla has diminished the value of his work. Moreover, scholarly scrutiny revealed serious methodological weaknesses. Thus von Soden lost the

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<sup>16</sup>Hermann Freiherr von Soden, *Die Schriften des Neuen Testaments in ihrer ältesten erreichbaren Textgestalt hergestellt auf Grund ihrer Textgeschichte*; I Teil, *Untersuchungen*, 3 vols. (Berlin, 1902-10); II Teil, *Text mit Apparat* (Gottingen: Vandenhoeck and Ruprecht, 1913).

<sup>17</sup>For the Gregory system, see Caspar René Gregory, *Canon and Text of the New Testament* (New York: Charles Scribner's Sons, 1924). A brief summary of von Soden's system is in Metzger, 140-41.

central place in twentieth-century textual criticism that he might have had if more care had been taken in the preparation and presentation of his findings.<sup>18</sup> Frederik Wisse summed up his general dissatisfaction with von Soden's work by proclaiming his "inaccuracies cannot be tolerated for any purpose."<sup>19</sup>

Even before von Soden published his findings, Eberhard Nestle published a pocket GNT. The descendants of Nestle's pocket GNT became the standard texts for both NTTC and New Testament studies as a whole.<sup>20</sup> Nestle synthesized the findings of Westcott and Hort, Tischendorf, and Bernard Weiss into a single volume with a concise, though extensive, apparatus.<sup>21</sup>

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<sup>18</sup>Metzger, 142-43. For a more detailed critique of von Soden, see J. Harold Greenlee, *Introduction to New Testament Textual Criticism*, rev. ed. (Peabody: Hendrickson Publishers, 1995), 77-81; and Colwell.

<sup>19</sup>Wisse, 17.

<sup>20</sup>Nestle published the first edition in 1898. For the edition current at the time of this writing, see Barbara Aland, Kurt Aland, Johannes Karavidopoulos, Carlo M. Martini, and Bruce M. Metzger, eds., *Novum Testamentum Graece*, 27th ed. (Stuttgart: Deutsche Bibelgesellschaft, 1993).

<sup>21</sup>Silva, 285.

In 1966 a committee composed of Kurt Aland, Matthew Black, Alan Wikgren, and Bruce Metzger (editors for the contemporary Nestle edition) published a GNT under the cooperative direction of five Bible societies known collectively as the United Bible Societies (UBS).<sup>22</sup> Although the text of the UBS testament was the same as the Nestle text, each edition contained a different critical apparatus. Kurt Aland influenced the Nestle-Aland (his name was added to the title) apparatus toward detailed textual studies. The UBS committee produced a less comprehensive apparatus for use mainly by translators.<sup>23</sup> The Nestle-Aland and UBS texts, though not universally accepted, are considered by most to be the standards in the field of New Testament studies.<sup>24</sup>

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<sup>22</sup>Kurt Aland, Matthew Black, Alan Wikgren, and Bruce Metzger, eds., *The Greek New Testament* (Stuttgart: United Bible Societies, 1966). At the time of this writing, the UBS text was in its fourth edition.

<sup>23</sup>Silva, 286-88. More textual assistance has been made available to users of the UBS edition in Bruce Metzger, *A Textual Commentary on the Greek New Testament*, 2d ed. (Stuttgart: German Bible Society, 1994).

<sup>24</sup>For concerns about those texts see Silva, 290-91. For objections to the Alexandrian flavor of those texts in favor of the Byzantine Majority text see Sturz, *Byzantine Text Type*, and Hodges, *Greek New Testament*. For more information on the Nestle-Aland and UBS texts see Kurt Aland, "The Greek New Testament: Its Present and Future



Shortly after the death of Eberhard Nestle in the 1920s (after which his son Erwin took over his work, beginning with the thirteenth edition in 1927) and before the coming of Aland and Metzger, S. C. E. Legg began to publish his works. He produced critical apparatuses for Mark and Matthew in 1935 and 1940, respectively.<sup>25</sup> Legg compiled the most extensive apparatus thus far gathered for either book.<sup>26</sup>

In 1942, though, Thomas W. Manson published a highly critical review of Legg's first two volumes.<sup>27</sup> He found the Greek MS evidence to be unreliable. Manson's view of the patristic evidence and evidence derived from versions was even more critical. His reproach of Legg's work led to hostile attitudes toward the volumes on Matthew and Mark,

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Editions," *Journal of Biblical Literature* 87 (1968): 179-86.

<sup>25</sup>S. C. E. Legg, ed., *Nouum Testamentum graece secundum textum Wescotto-Hortianum: Euangelium secundum Markum* (Oxford: Clarendon Press, 1935); and *Nouum Testamentum graece secundum textum Wescotto-Hortianum: Euangelium secundum Matthaëum* (Oxford: Clarendon Press, 1940).

<sup>26</sup>Metzger, *Text of the New Testament*, 145.

<sup>27</sup>Thomas W. Manson, Review of *Nouum Testamentum graece secundum textum Wescotto-Hortianum: Euangelium secundum Matthaëum* by S. C. E. Legg, *Journal of Theological Studies* 43 (1942): 83-92.

and the publisher's outright rejection of Legg's already completed volume on Luke.

After reviewing the shortcomings of Legg's work, the British Committee for the Critical Greek New Testament proposed a cooperative undertaking to certain American scholars in 1948. Shortly afterwards the two sides were united for one cause: the International Greek New Testament Project.<sup>28</sup> The goal of the IGNTP was the preparation of a multivolume critical edition of the entire Greek New Testament, beginning with Luke.<sup>29</sup>

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<sup>28</sup>James K. Elliot, "The International Plan to Establish a Critical Apparatus to Luke's Gospel," *New Testament Studies* 29 (1983): 531.

<sup>29</sup>See the American and British Committees of the International Greek New Testament Project, *The New Testament in Greek: The Gospel According to Luke*, 2 vols. (Oxford: Clarendon Press, 1984, 87). For reports on IGNTP progress toward that first publication, see Bruce Metzger, "Report of Progress of the American Section of the International Greek New Testament Project," *New Testament Studies* 2 (1955): 222-23; Ernest Cadman Colwell, Paul R. McReynolds, Irving A. Sparks and Frederik Wisse "The International Greek New Testament Project: A Status Report," *Journal of Biblical Literature* 87 (1968): 187-97; James M. Robinson, "The Institute for Antiquity and Christianity," *New Testament Studies* 16 (1969): 178-95; and J. K. Elliot, "The International Project to Establish a Critical Apparatus to Luke's Gospel," *New Testament Studies* 29 (1983): 531-38.

The chairperson of the American section was Ernest C. Colwell, who would give to the project a method of textual classification. He advocated the use of full collations, following the lead of such scholars as Tischendorf. Others, though, did not use such a methodology. They relied on more rapid and less detailed collations.<sup>30</sup>

Various scholars have taken up the issue of the extent of collation in different ways. Since the time of Tischendorf, enthusiasm for full collations has waned. The University of Chicago kept the tradition alive, collating the growing number of MSS being brought into the country during the 1920s.<sup>31</sup> In addition, Harvard professor Kirsopp Lake began publicizing his theory of a newly discovered text-type: the Caesarean.<sup>32</sup> The idea of a breakthrough brought about a new interest in collating MSS for Caesarean readings.<sup>33</sup> Overall, though, the twentieth century

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<sup>30</sup>Von Soden and Hutton were among those who used selective collations.

<sup>31</sup>Wisse, *The Profile Method*, 22.

<sup>32</sup>Kirsopp Lake and R. P. Blake, "The Text of the Gospels and the Koridethi Codex," *Harvard Theological Review* 16 (1923): 267-86. Lake was actually revising von Soden's findings on what von Soden called the Iota recension.

<sup>33</sup>Wisse, *The Profile Method*, 22-23.

threatened to be a slow period for the addition of authoritative MS collations.

Even the work of Kurt Aland at Münster reflected certain impatience with the tedious nature of full collations. Aland considered the Byzantine text a closed unit.<sup>34</sup> He developed the "Thousand Readings" method, which used selective MS collations simply to identify Byzantine MSS so that they could be excluded from further consideration for Aland's text.<sup>35</sup> Barbara Aland defended the approach of the Münster Institute by noting that its method could give a general idea of distinctions in the minuscules, to identify "those minuscules that do not simply reproduce the Koine."<sup>36</sup> She contended that by this method the MSS were being divided into more manageable blocks for more detailed study.

Colwell and his colleagues in the IGNTP began making strides toward changing the trend in MS collation. Under Colwell's plan, when workers had full collations in hand

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<sup>34</sup>Kurt Aland, "The Significance of the Papyri for New Testament Research," in *The Bible in Modern Scholarship*, ed. Phillip Hyatt (Nashville: Abingdon Press, 1965), 342.

<sup>35</sup>Wisse, *The Profile Method*, 21.

<sup>36</sup>Aland and Wachtel, 43-60.

they would establish the basic relationships of the MSS by the "Multiple Readings" (a refinement of Hutton's "Triple Readings") method and by comparison of distinctive group readings, then apply his Quantitative Analysis method.<sup>37</sup>

Before the coming of scholars like Colwell and Metzger, the popular method of classification had been to look for agreements among MSS in places where they diverged from the TR.<sup>38</sup> Colwell proposed an improved method which measured not only disagreements from the TR, but also agreements; furthermore, the total amount of variation was to be measured against all other MSS involved in the particular study.<sup>39</sup> In addition to this contribution, Colwell also provided definitions of which variants should be used in such a method. While his "Multiple Readings" and "Distinctive Readings" methods have faded from view, QA seems to be firmly established.<sup>40</sup>

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<sup>37</sup>For an explanation of the "Triple Readings" method see Edward A. Hutton, *An Atlas of Textual Criticism* (Cambridge: The University Press, 1911).

<sup>38</sup>For a critique of this method see Bruce Metzger, "The Caesarean Text of the Gospels," *Journal of Biblical Literature* 64 (1945): 457-89.

<sup>39</sup>Colwell, *Studies in Methodology*, 56-59.

<sup>40</sup>Ehrman noted himself, Gordon Fee, Larry Hurtado, W. L. Richards, and Carroll Osborn as users of the method,

Quantitative analysis may have been the best method available, but it did not keep pace with the schedule of the IGNTF. Two critical problems facing the project were the ponderous mass of late MSS through which researchers had to sift and the laboriously slow process involved in collations and QA. Two of Colwell's students addressed both issues by developing a new methodology aimed at reducing the amount of time and text needed to classify evidence from the minuscules that made up the bulk of extant Greek MSS. Frederik Wisse and Paul McReynolds, students at Claremont Graduate School, created what would become known as the Claremont Profile Method.<sup>41</sup>

The CPM was developed with the thesis that closely related groups of MSS would show distinctive readings in certain places; that is, analysis by the CPM would not involve an entire book, but only selected passages. Wisse and McReynolds collated several hundred MSS to establish

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in "Methodological Developments," 38-39. Fee modified the method slightly, taking into account all units of variation at first and eliminating the insignificant after they have been counted; this modification reversed the order of Colwell and Tune's elimination procedure. For Fee's method, see Eldon J. Epp and Gordon D. Fee, *Studies in the Theory and Method of New Testament Textual Criticism*, 221-43.

<sup>41</sup>See Wisse, *The Profile Method*.

test passages and test readings containing at least fifty significant variation units.<sup>42</sup> When MSS were collated in those passages and the results charted, certain patterns (or profiles) would appear, textually linking or separating a given MS from others.<sup>43</sup>

The CPM proved to be a rapid method. It allowed a much faster MS classification than full collations and a QA. Critics, however, pointed out numerous weaknesses. First, it is not readily applicable to non-Byzantine MSS. Second, the initial phase of establishing test readings is very slow. Third, the CPM establishes only basic MS relationships; it is not useful when a detailed study is desired.<sup>44</sup> Fourth, since the CPM requires large blocks of text, it is of very limited value for patristic studies.<sup>45</sup>

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<sup>42</sup>Ibid., 117-18.

<sup>43</sup>Ibid., 35-46.

<sup>44</sup>Detailed studies and QA are clarifying CPM groupings. The potential exists to overturn CPM group classifications, as the CPM is very weak in detecting block mixture in a MS.

<sup>45</sup>For more extended evaluations of the CPM see Epp and Fee, 211-20; Bart Ehrman, "The Use of Group Profiles for the Classification of New Testament Documentary Evidence," *Journal of Biblical Literature* 106 (1987): 465-86; and W. L. Richards, "An Examination of the Claremont Profile Method in the Gospel of Luke: A Study in Text-Critical Methodology," *New Testament Studies* 27 (1981): 52-63.

When Wisse published his book on the CPM in 1982, the IGNTP was nearing completion of the Luke Project. Since that time, Luke has been published (vol. 1, 1984; vol. 2, 1987). At the time of this writing, work is underway on the Gospel of John.<sup>46</sup> The analysis of many more texts is needed, though, before that project will be completed.

The IGNTP is being aided in that endeavor by the use of computer software designed to assist in collations.<sup>47</sup> Attempts at, and ideas about, the use of computers in textual criticism have been around since the 1950s, but little has actually been accomplished in that field until recently.<sup>48</sup> This innovation is making full collations and

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<sup>46</sup>D. C. Parker, "The International Greek New Testament Project: The Gospel of John," *New Testament Studies* 36 (1990): 157-60. Paul McReynolds developed preliminary test readings for CPM studies of John; The American and British Committees of the International Greek New Testament Project, *The New Testament in Greek IV: The Gospel according to St. John, Volume I, Papyri*, ed. W. J. Elliott and D. C. Parker, *New Testament Tools and Studies*, ed. Bruce M. Metzger and Bart Ehrman, vol. 20 (Leiden: E. J. Brill, 1995).

<sup>47</sup>Jerry W. Lewis, *MANUSCRIPT*, Creative Computer Solutions, Kansas City, Missouri.

<sup>48</sup>Possible exceptions are the contributions of Wilhelm Ott and Bonifatius Fischer to the Münster and Beuron Projects. For more information see Robert Kraft, "The Use of Computers in New Testament Textual Criticism," in Ehrman and Holmes, 268-82.



QAs easier than they have been. This advancement should significantly decrease the publication schedule for John as compared to Luke.

In summary, the current state of the field of NTTC gives adequate cause for this present study. The minuscules have become a topic of increasing study in the field. Von Soden's premise of divisions in the Byzantine text-type has invited further study in defining since many of his groupings are in desperate need of reformulation.

The IGNTP is in the midst of a monumental task, and the completion of Luke in the last decade marked the inception of a whole new chapter in textual studies. The contemporary concern is with the Gospel of John. Research doctoral candidates at the New Orleans Baptist Theological Seminary (NOBTS), working in cooperation with CNTTS, have made several significant contributions in the current chapter of the IGNTP. In addition, the results of their research have helped to classify more accurately the MS groupings and sub-groupings.

In 1997, William C. Mann completed a study on the K<sup>x</sup> group in John at NOBTS.<sup>49</sup> He used only four MSS in his QA,

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<sup>49</sup>William C. Mann, "An Analysis of the Textual Relationships of Selected Manuscripts from Group K<sup>x</sup> in the

and his results lacked definition for the K<sup>r</sup> group. Some years later, Norris C. Grubbs continued this research and further clarified the findings of from Mann's initial work.<sup>50</sup> During this time span several other studies offered some contribution to the broad field of NTTC and the specific study of the textual tradition of the Gospel of John.<sup>51</sup>

This present study was done, in part, to continue the work of the CNTTS. The inclusion of several Byzantine MSS (a few were previously unclassified) in the QA for this study was a significant contribution to this continuing

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Gospel of John" (Ph.D. diss., New Orleans Baptist Theological Seminary, 1997).

<sup>50</sup>Norris C Grubbs, "Does a Distinctive K<sup>r</sup> Group Exist in John?" (Ph.D. diss., New Orleans Baptist Theological Seminary, 2002).

<sup>51</sup>Dong Soo Chang, "An Investigation of the Textual Relationships of Selected Manuscripts of the Π<sup>a</sup> Group in John" (Ph.D. diss., New Orleans Baptist Theological Seminary, 1997); Jinsup Ahn, "An Analysis of the Textual Relationships of Selected Manuscripts from the K<sup>1</sup> Group in the Gospel of John" (Ph.D. diss., New Orleans Baptist Theological Seminary, 2000); Charles Draper, "An Analysis of the Textual Relationships of Selected Minuscule Manuscripts from Group Π<sup>b</sup> in the Gospel of John" (Ph.D. diss., New Orleans Baptist Theological Seminary, 2000); Changshik Park, "An Analysis of the Textual Relationships and Characteristics of Selected Manuscripts of the K<sup>x</sup> Group in John" (Ph.D. diss., New Orleans Baptist Theological Seminary, 2001).

process of delineating the relationships among the Byzantine MSS.

The first chapter of this study contains an introduction to the methodology employed for the processing of the data. The second chapter includes a description of the eight selected MSS. The third chapter details the results of the QA performed on the selected MSS with both text-type MSS and Byzantine MSS. The conclusion reveals the interpretation of the QAs and the implications for an understanding of the textual relationships of the selected MSS.

Three delimitations were developed for the completion of this dissertation. The first delimitation was that only the selected minuscule MSS were examined. The second delimitation was that no attempt was made to determine or define the theological motivation for any of the variations.<sup>52</sup> The third delimitation was that no attempt was made to determine the best readings.

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<sup>52</sup>The entire matter of the appropriate relationship between variants and theological motivation of the scribe is not easily resolved. See Ernest C. Colwell, *Studies in Methodology in Textual Criticism of the New Testament*, New Testament Tools and Studies, ed. Bruce M. Metzger, vol. 9 (Leiden: E. J. Brill, 1969), 150-52.

The successful completion of the research project required the application of some assumptions. Three assumptions aided the researcher. The first assumption was that the manuscript databases from the CNTTS were reliable with respect to all applications in this study. The second assumption was that the microfilm copies utilized by the researcher were reliable reproductions of the actual MSS. The third assumption was that the computer program utilized by the researcher, in cooperation with the CNTTS and the IGNTF, was reliable and produced accurate data for the purpose of this study.

## CHAPTER ONE

### METHODOLOGY

Textual critics have been forced to develop procedures and methods for evaluating the weight of the approximately 300,000 variant readings found in the MSS of the GNT.<sup>1</sup> The need for a suitable methodology is adequately demonstrated in the volume of variant readings and in the importance given to the MSS by scholars, students, believers, and critics alike. Several tools are available to the textual critic in the pursuit of the meaning and significance of the MS materials. The choice of methodology for processing the data, in large measure, determines both the accuracy and the worth of the findings.<sup>2</sup>

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<sup>1</sup>Epp, "Ancient Texts and Versions of the New Testament," 3.

<sup>2</sup>For some, the matter is more critical than the mere choice of methodological tools. A few have asked the textual critic to play the role of church historian and theologian as well. See M. M. Parvis, "Text, NT," *The Interpreter's Dictionary of the Bible*, ed. George Buttrick, vol. 4 (Nashville: Abingdon Press, 1962), 612-13.

The methodological tools used to accomplish this study were the collations of the MSS and the evaluation of the data derived from the collations.<sup>3</sup> The evaluation was accomplished by the application of two types of QAs to the reconciled final collations. The textual affinities of the selected MSS were determined by interpreting the data from the QAs.

### *Collating the Manuscripts*

The proper beginning of the collation process is the collecting of materials. The primary data for this study were the eight MSS hypothesized to belong to the M group in the Gospel of John. The MSS were provided in microfilm form by the CNTTS at NOBTS. Collating the MSS against the TR generated additional primary data. The secondary data included publications on text-types, the Byzantine text, the M groups, and the methodologies employed in the study.

A collation is the most basic tool of research for the textual critic. Bruce Metzger suggested what has become a widely accepted definition in the field of NTTC: "To collate means to compare the text of the manuscript with another

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<sup>3</sup>See appendix 1 for the full collation report of the selected MSS.

text, chosen as a standard, and to report each and every difference from the basic text."<sup>4</sup> Another well-known definition focused on the developmental nature of collation. Arthur G. Patzia defined collation as "the process by which text critics compare manuscripts in order to reconstruct the original text."<sup>5</sup>

Of course, the goal of collating is not always the reconstruction of the original text. Collations also serve to enhance the understanding of the textual relationships between MSS by highlighting the distinctive lines of genealogical descent within the MS tradition.<sup>6</sup> Whether or not the goal is a reconstruction of the original text, the starting point for any detailed MS study is a full collation of the MS.

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<sup>4</sup>Bruce M. Metzger, *Manuscripts of the Greek Bible: An Introduction to Paleography* (New York: Oxford University Press, 1981), 52.

<sup>5</sup>Arthur G Patzia, *The Making of the New Testament: Origin, Collection, Text, and Canon* (Downers Grove: InterVarsity Press, 1995), 158-59.

<sup>6</sup>For a more complete explanation of distinguishing lines of genealogical descent, see Barbara Aland and Klaus Wachtel, "The Greek Minuscule Manuscripts of the New Testament," 43-60.

A full collation involves the notation of every variant from a selected standard. A final reconciled collation is produced by judiciously combining individual collations of the text against the chosen standard. After much debate, the IGNTP committees chose the TR for the collation base.<sup>7</sup>

The choice of a specific base text became less important with the arrival of the computer, which made possible the collation of several MSS against a standard "control" MS, enter the differences into the computer, and allow the computer to "collate digitally" each of the individual MSS against one another. The TR serves as a good base text for collating Byzantine MSS since it both represents a standard (or "control") of continuity for the collation process within the field of NTTC and is Byzantine in character.

The selected MSS were collated individually against the TR in conformity with IGNTP.<sup>8</sup> However, the goal was not to determine the degree of variation from the TR. As the QA

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<sup>7</sup>For an explanation of the reasons for use of the TR, see Parker, 157-58.

<sup>8</sup>The collation base used in the study was the International Greek New Testament Project Collation Base 1.0 based on Η ΚΑΙΝΗ ΔΙΑΘΗΚΗ, Fascicle IV: ΚΑΤΑ ΙΩΑΝΝΗΝ (Oxford, 1873).



data adequately demonstrated, the degree of variation from the TR was a lesser byproduct of the research. The major emphasis was upon the determination of the textual affinities as verified in the comparison of each individual MS with the other MSS used in the QAs.

The resulting data from the collations then had to be separated into significant variants and insignificant variants.<sup>9</sup> A determination of the criteria for admissibility of significant variants was a prerequisite for producing the data of the QAs. The variants that were insignificant for the analyses and comparisons were determined according to the accepted canons of NTTC as indicated below.<sup>10</sup>

Once the data was reduced to the significant variants, a QA could be run. The application of the QAs helped to quantify the relationships of each MS to the other selected MSS and other representative MSS.

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<sup>9</sup>For additional explanation of the term "variant" see Eldon J. Epp, "Textual Criticism (NT)," *The Anchor Bible Dictionary*, vol. 6, ed. David Noel Freedman (New York: Doubleday, 1992), 414. Epp also suggested that the criterion for the admissibility of a variant reading should be based on a weighing of the external and internal evidence. See Epp, "Ancient Texts and Versions of the New Testament," 9.

<sup>10</sup>Epp and Fee, 57.

### *Quantitative Analysis*

Quantitative analysis is, in a broad sense, one of the major methodologies of scientific investigation.<sup>11</sup> In the practice of NTTC, QA refers to the determination of percentile agreement in readings between two texts. Eldon Jay Epp expressed the centrality of the method when he wrote, "The method yields those precise quantitative measures of manuscript relationships and textual character which are mandatory for reconstructing the textual history of the New Testament."<sup>12</sup>

Gordon D. Fee refined the method in ascertaining "the percentage of agreements between all the MSS over a total area of variation."<sup>13</sup> Fee called for a method "flexible enough to have perspective for all manuscript traditions."<sup>14</sup> He contended that the method must ascertain relations both in the whole book under consideration and in sections of the book. This present study follows Fee's guidelines by

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<sup>11</sup>For an overview of these scientific methodologies see Paul D. Leedy, *Practical Research: Planning and Design*, 5th ed. (New York: Macmillan Publishing Company, 1993), 145.

<sup>12</sup>Epp and Fee, 103.

<sup>13</sup>Ibid., 225.

<sup>14</sup>Ibid.

performing QAs on groupings of chapters and on individual chapters. A comparison of block sections of the MSS was made possible with the QAs performed on chapter groupings.

A key factor in any NTTC study is the choice of MSS to be included in the database for the QA. The MSS should represent a broad cross-section of text-types and an adequate depiction of the group under analysis. In this study, the primary MSS were selected based upon their demonstrated relationships in the Gospel of Luke. Six of the selected MSS (1194, 1202, 1220, 1222, 1237, and 1458) were determined to be members of the M group based on the CPM readings in Luke.<sup>15</sup> The remaining two MSS (1242, 1342) were selected because of their closeness to the other M group members in Luke.<sup>16</sup> All of the selected MSS were hypothesized to be members of the M group in John.

The level of the agreements provided a determination of the textual relationships between the two texts compared.<sup>17</sup> The percentiles are based on the number of units of

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<sup>15</sup>Wisse, *The Profile Method*, 72-77.

<sup>16</sup>Ibid., 73-75.

<sup>17</sup>Greenlee, 132-33.

agreement between the MSS in respect to the total number of variation units in the section under consideration.<sup>18</sup> In this current study, two QAs were used to aid the researcher in determining textual relationships of the selected MSS.

The researcher selected the following criteria for significant variants in each QA:

1. Criteria for text-type QA
  - A. Exclusion of nonsense readings
  - B. Exclusion of dislocated readings: dittography, haplography, hearing errors, and transposition of letters
  - C. Exclusion of itacisms,<sup>19</sup> nu-movables, and minor spelling differences including proper names
  - D. Exclusion of singular readings
  
2. Criteria for Byzantine QA
  - A. Exclusion of nonsense readings
  - B. Exclusion of dislocated readings: dittography, haplography, hearing errors, and transposition of letters
  - C. Exclusion of itacisms and nu-movables
  - D. Exclusion of singular readings

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<sup>18</sup>The relationship of variation units and percentile agreement of MSS which is now the standard of CNTTS was initially suggested by William F. Warren, Jr. See William F. Warren, Jr., "The Textual Relationships of p<sup>4</sup>, p<sup>45</sup>, and p<sup>75</sup> in the Gospel of Luke" (Th.D. diss., New Orleans Baptist Theological Seminary, 1983), 5-6.

<sup>19</sup>Metzger's classifications were followed, involving the tendency of scribes to use η, ι, υ, ει, οι, and υι interchangeably. See Bruce M. Metzger, *Manuscripts of the Greek Bible: An Introduction to Paleography* (Oxford: Oxford University Press, 1981), 13.

Background information was obtained on each MSS from available published sources. The researcher independently examined each of the microfilm copies of the MSS as well. The results of this examination are found in the MS descriptions in chapter 2 of this document.

### *Summary*

The researcher adhered to the guidelines for collation established by the IGNTP.<sup>20</sup> Each selected MS was individually collated against the TR two times. The results of the first collation of each MS were entered into the computer database. The results of the second collation of each MS, being independent from the first, also were entered into the computer database. The computer program generated a comparison of the two collations, revealing any inconsistencies. The researcher, with the assistance of William F. Warren, Jr. and Earl Kellett of CNTTS, reviewed

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<sup>20</sup>The guidelines for collation are found in "The International Greek New Testament Project: The Gospel of John Rules for Collators," The American and British Committees, 1990. The guidelines for the use of the computer program in entering the collation into the IGNTP database are found in "The MANUSCRIPT Program, Collator's Version IGNTP User's Manual Version 0.81."

and revised these inconsistencies and made the necessary changes to produce a final reconciled form of the collation.

The collations were subjected to QA. The selected MSS were combined with other MSS in order to determine their textual affinities. The results of the comparison of the MSS by QA were shown in both fractional and percentile forms. Tables were produced to show the outcome of both the numerical and percentage results. The tables provided data for interpretation and analysis of the text-types, the relationship with other Byzantine MSS, and the relationships of the MSS among themselves.

The interpretation of the data was divided into two categories. The first focused on the results of the QA of the selected MSS with representatives from Western, early and late Alexandrian, Caesarean, and Byzantine text-types. The second concentrated on the results of the QA of the selected MSS with a larger group of Byzantine MSS.

CHAPTER TWO  
DESCRIPTION OF THE SELECTED MANUSCRIPTS  
FROM GROUP M

Group M1 represents a part of the  $I^{\phi r}$  group as identified and described in von Soden's work. Von Soden distinguished  $I^{\phi r}$  as a distinct entity among the Iota groups. Von Soden's subgroups are clearly identified in Luke 10. The subgroups correspond to M10 and M1386 clusters and MS M27. Wisse noted that von Soden's discovery was confirmed in the Luke 10 CPM readings. However, the CPM revealed significantly more diversity among the M group than von Soden had suspected. Wisse proposed nine additional members to von Soden's three subgroups.<sup>1</sup>

Wisse further suggested that "there is an obvious relationship between the M and  $\Pi$  groups."<sup>2</sup> This relationship stands in need of clarification. Further study and examination of M and  $\Pi$  group members should help to

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<sup>1</sup>Wisse, *The Profile Method*, 100.

<sup>2</sup>Ibid.

illuminate the MS profiles.  $\Pi$  group members are included in both the text-type and Byzantine QAs.

### *The Manuscripts in the Study*

The following were the eight MSS from Group M1 that were selected for this dissertation: 1194, 1202, 1220, 1222, 1237, 1242, 1342 and 1458.<sup>3</sup> Limited published resources were available for researching the background and descriptions of the MSS. The researcher's comments were based upon physical examination of the microfilm copies and photocopies from the microfilms. These observations were assimilated with the published research to formulate the introductory material that follows.

All of the selected MSS included consistent use of standard abbreviations for the *nomina sacra*. Hence, these abbreviations were not included in the abbreviation tables.<sup>4</sup> The abbreviations listed in the tables below were chosen as representatives of the larger group of total abbreviated

<sup>3</sup>Ibid., 73-75. Wisse lists the profile classifications of the selected MSS for the CPM readings in Luke.

<sup>4</sup>For a detailed description of the standard forms of *nomina sacra*, see Metzger, *Manuscripts of the Greek Bible*, 23-36. For a more complete explanation of abbreviations used in MSS see J. Harold Greenlee, *Introduction to New Testament Textual Criticism*, rev. ed. (Peabody: Hendrickson Publishers, 1995), 20-22.



forms. The selected abbreviations display character designations and ligature forms found throughout the MSS.

#### MS 1194

MS 1194 is an eleventh-century document that contains 269 folia. The MS is housed in St. Catherine's Monastery on Mt. Sinai. The Mt. Sinai designation is Gr. 157 and von Soden's listed it as ε1094. The parchment MS measures 22.3 cm x 16.3 cm. It contains two columns and roughly 24 lines to the column.

The MS appears to be the product of a single hand. It was recorded with a sharp point in black ink. The MS concludes with a note that indicates the name, place, and probable benefactor of the codex. He was a scribe named John who copied the parchment for Theokistos on Patmos.<sup>5</sup>

The MS is decorated with large colored initials, fancy lettering in places, and pictures of the evangelists (all are nearly destroyed). Old Testament quotations are indicated, and the MS has frequent lectionary notes. Folia at the beginning of each Gospel contain the list of the numbers and titles of chapters and sections.

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<sup>5</sup>William Henry Paine Hatch, *The Greek Manuscripts of the New Testament at Mount Sinai* (Paris: Libraire Orientaliste Paul Geuthner, 1932), plate XXXII.

Table 1. Abbreviations Used in MS 1194<sup>6</sup>

Original	Abbrev.	Location	Original	Abbrev.	Location
προς	πρ <sup>ο</sup>	e, a	τους	τ <sup>ο</sup>	e, a
και	κ, α	o	ποιω	π <sup>ω</sup>	e, a
ου	υ	o	φαγειν	φ <sup>α</sup> γ <sup>ειν</sup>	e, a
ταυτα	τ <sup>α</sup> ι <sup>α</sup>	e, a	εκεινοι	ε <sup>κ</sup> ε <sup>ι</sup> ν <sup>ο</sup> ι	e, a
αυτοις	α <sup>υ</sup> τ <sup>ο</sup>	e, a	μου	μ <sup>ο</sup>	o
τον	τ <sup>ο</sup>	e, a	τοπω	τ <sup>ο</sup> π <sup>ω</sup>	e, a
τοις	τ <sup>ο</sup>	e, a	της	τ <sup>η</sup>	o, a
υμιν	υ <sup>μ</sup> ι <sup>ν</sup>	e, a	τουτω	τ <sup>ο</sup> υ <sup>τ</sup> ω	o, a
τω	τ <sup>ω</sup>	o, a	λαλεις	λ <sup>α</sup> λ <sup>ει</sup> ς	e, a

## MS 1202

This gospel MS is a fifteenth-century parchment that resides in St. Catherine's Monastery on Mt. Sinai. Von

<sup>6</sup>The following refer to the locations of the abbreviated forms: a—above the line, b—below the line, e—end of the line, m—mid-line, o—on the line and s—start of the line.

Soden numbered it 544, and the St. Catherine's designation is Gr. 165. It contains 422 folia of one-column text with 17 and 18 lines to the page. The Gospel MS measures 17.6 cm x 13.5 cm and is written with a sharp-pointed instrument in brown ink. The end of the MS contains a subscription identifying the scribe as John Rhosos. Some have posited that he wrote the MS for the Sinaitic monastery in Crete.<sup>7</sup>

MS 1202 is decorated with pictures of the evangelists, elaborate initials, and several ornate letters throughout the codex. The scribe included punctuation, lists of chapters for each Gospel, and the numbers and titles of chapters. Old Testament notations are defined and the lectionary readings are marked.

Table 2. Abbreviations Used in MS 1202

Original	Abbrev.	Location	Original	Abbrev.	Location
ΟΥ	ου̅	e, a	ΑΥΤΟΥ	αυ̅γ'	e, a
ΟΥ	ου̅	o	ΚΑΙ	κα̅	o, b
ΤΟ	το̅	o, a	ΕΙΣ	ει̅ς	o

<sup>7</sup>Hatch, plate LXXI.

Table 2—Continued

Original	Abbrev.	Location	Original	Abbrev.	Location
ΟΥΚ	ϝκ	ο	οις	ϙ'	ο
ΤΟΥ	ϙ	e, a, ο	οι	ϙ	ο
ΕΤΙ	ϙι	ο	ΤΟΥΤΟΝ	ϙοϙ	ο, a
ΟΥΤΟΣ	ϙτοι	e, a, ο	ΜΕΤΑ	μϙ <sup>a</sup>	ο, a
δε	ϙ'	ο, a	των	μϙ	e, a

## MS 1220

This MS is a beautifully preserved tenth-century codex containing portions of Mark, Luke, and John. St.

Catherine's Monastery houses the Mark and John sections, which represent 125 folia of the 127. The following are the extant materials in the St. Catherine's collection: Mk.

5:13 (και [2])—33 (φοβηθαισα); 6:8 ([παρηγγει]λεν αυτοις)—7:27 (λαβειν); 8:11 (αυτον)—Jn. 21:25. Two pages from Luke (7:47—8:16; 10:11—30) are preserved in the National Library in St. Petersburg. The St. Catherine's designation is Gr. 183. Von Soden does not list this manuscript among the ε-codices.

This parchment MS measures 25 cm x 19.5 cm. The text is arranged in two columns of 29 lines to the column. The

ruling is with an extra sharp point and the lettering is generally exceptional. The scribe recorded a list of chapters for Luke and John, numbers and titles of chapters, and the Eusebian canons. A few Old Testament quotations are noted, and the MS contains lectionary notation. The MS concludes with 20 lines of text in Arabic. The meticulously crafted MS has very few abbreviations.

Table 3. Abbreviations Used in MS 1220

Original	Abbrev.	Location	Original	Abbrev.	Location
καί	κζ	ο	υμεις	υμ	e, a
μου	μγ	e, a	εμου	εμ	e, a

## MS 1222

This eleventh-century parchment MS is superbly preserved. The majority of the 167 folia are completely intact including the edges and corners. The MS measures 27 cm x 21.5 cm and contains two columns of 28 or 29 lines to the column. The lettering is with a sharp-pointed instrument in brown ink. Some initials are decorated. The MS is kept in St. Catherine's Monastery, where it bears the designation of Gr. 185. Von Soden numbered it as ε1090.

The MS is comprised of the four Gospels. It contains a list of chapters, subscription for the Gospels, numbers and titles of chapters, and notations of Old Testament quotations. Scattered throughout the codex are adscript and superscript writings for iota, and some diphthongs. The MS ends with seven lines of Greek text.

Table 4. Abbreviations Used in MS 1222

Original	Abbrev.	Location	Original	Abbrev.	Location
και	Ϛ	o	του	Ϛ	e, a
ουτος	οὗτ	o, e, a	υμας	υμ	e, a
προς	πρ	e, a	υμων	υμ	e, a
υδατος	υδατ	e, a	ημων	ημ	e, a
εγω	εγω	o	εστι	εστ	e, a

## MS 1237

This paper MS is from the fifteenth-century. It measures 19.3 cm x 14.4 cm. The 289 folia are recorded in one column with 23 lines to the page. The MS is stored in St. Catherine's Monastery on Mt. Sinai. It bears the Mt. Sinai designation of Gr. 200. Von Soden listed it as ε599.

The lettering is generally precise. Letter formations frequently diverge slightly from standard minuscule script in the apparent interest of beautification. The initials are decorated and enlarged. All forms of applicable punctuation are used throughout the MS.

A list of chapters for each Gospel and a hypothesis for each Gospel are included. Numbers and titles of chapters and sections are included in the front matter. The lectionary readings are clearly marked with initial red letters and black numbering. Old Testament quotations are indicated. The *pericopae de adulterae* is obelized.

Table 5. Abbreviations Used in MS 1237

Original	Abbrev.	Location	Original	Abbrev.	Location
και	Ϛ	o	εγω	εω	o
του	ϛ	e, a	μου	μ	e, a
αυτου	αυϛ'	o	ου	Ϟ	o
ευ	ε	e, a	του	οϛ τ	e, a
αυτους	αυϛ'	e, a	μοι	οι μ	e, a

## MS 1242

This MS is from the thirteenth-century and is written on parchment. MS 1242 is comprised of 273 folia of single-column text with 27 to 29 lines per column. It is housed at St. Catherine's Monastery on Mt. Sinai. The Mt. Sinai number is Gr. 261 and von Soden catalogued it with the  $\delta$ -codices as  $\delta$ 469.

It contains the Gospels, Acts, the Catholic Epistles, and the Pauline Epistles (including Hebrews). The codex is a composition of two MSS, each apparently by a different hand. The codex opens and ends with paper pages containing *synaxaria*, a *menologion*, and some notes.











The first section containing the four Gospels is written in single column with 29 lines to the column. The ruling is with a sharp point in brown ink and includes full punctuation markings. Old Testament quotations are indicated as well as lectionary reading points. The *pericopae de adulterae* is omitted.

The second section containing Acts, the Catholic Epistles, and the Paulines is written in single-column text of 27 lines to the page. Ordering is extraordinary (Hebrews follows Philemon), and some hypotheses were added. The



lettering is with a sharp-pointed instrument and in brown ink. The initials are decorative and in red ink.

Table 6. Abbreviations Used in MS 1242

Original	Abbrev.	Location	Original	Abbrev.	Location
ΕΣΤΙΝ		e, a	ΕΓΩ		o
ΜΟΥ		o, a	ΤΟΥ		e, a
ΑΥΤΟΥ		o, e, a	ΚΑΙ		o
ΤΑΣ		e, a	ΥΠΕΡ		e, a
ΠΑΝΤΕΣ		e, a	ΠΡΟΣ		e, a

#### MS 1342

This thirteenth-century MS contains 258 folia. The parchment document is written in one column of 18 to 23 lines to the page. MS 1342 is held at the Greek Orthodox Patriarchate in Jerusalem, where it is catalogued as Saba 411. Von Soden numbered it among the ε-codices as ε1311.

The MS measures 16.4 cm x 12.2 cm. All of the Gospels are ornamentally decorated at the beginning. The MS concludes with two blank pages from which writing has been

rubbed out. MS 1342 once belonged to John, Catholicus of Pamthos, and was later obtained by the Laura of St. Saba.<sup>8</sup>

The text is missing a section. The extant materials include Mt. 1:1-11 (Ἰωακειμ); 4:25(της)- Jn. 21:25. The MS contains common punctuation. A list of chapters and sections opens the codex. Old Testament quotations are indicated. Compared to the other MSS under consideration in this study, the text of MS 1342 is haphazardly composed. Variances of number of lines per page are frequent. The lettering alternates between cramped and spacious.

Table 7. Abbreviations Used in MS 1342

Original	Abbrev.	Location	Original	Abbrev.	Location
λογος	λδ'	e	πρωτος	πρωτ	o, a
του	τγ	e, o	του	τ	o, a
και	ρ	o, a	μου	μγ	o, e
αυτος	ανδ	o, a	των	ω	e, a
σου	οι'	o, a	ημεις	ημει	e, a
αυτον	αυτο	E, a	λεγει	ε, χε	e, a

<sup>8</sup>Ibid., plate XLIV.

## MS 1458

This MS is from the tenth-century. MS 1458 is housed at the Lavra, Mt Athos, Greece. The Mt. Athos identification is A'26. Von Soden does not list it among the ε-codices. The MS measures 19 cm x 14.8 cm and contains one column of 20 lines. The 323 folia are written with a blunt-pointed instrument in brown ink. The MS contains very few abbreviations, except for the *nomina sacra*. The few abbreviations combined with the larger pointed pen, contributes to the numerous folia.

MS 1458 contains the Gospels. William Hatch lists this MS in his list of MSS.<sup>9</sup> However, he does not include a plate, photo, or description of the MS.

Table 8. Abbreviations Used in MS 1458

Original	Abbrev.	Location	Original	Abbrev.	Location
ΟΥ	ϝ	ο	ΤΟΥ	τϝ	ο
ΟΥΤΟΣ	ϝτο σ	ο	ΕΣΤΙΝ	εστ <sup>~</sup>	ο, ε, α
ΕΠ	ε π	ε, α	ΜΟΥ	μϝ	ο, ε
ΚΑΙ	κ	ο	ΕΓΩ	εϝ	ο

<sup>9</sup>Ibid., 132.

### CHAPTER THREE

#### QUANTITATIVE ANALYSIS OF THE TEXTUAL RELATIONSHIPS OF THE SELECTED MANUSCRIPTS

The selected MSS were analyzed according to the previously established principles for QA discussed in chapter 1. The following tables were derived from the QAs of the selected MSS compared with the representative text-type MSS. The results were presented in groups of chapters and for the entire text of the Gospel of John.

QAs were also completed for the individual chapter readings. Individual chapter QA data was not included in the body of text. However, the data derived from the individual chapter trials was examined and compared to the data from the group readings. The results of the individual chapter trials were listed in appendix 2 for text-types and appendix 3 for the Byzantine MSS.

Both the fractional and percentile agreement QA results were presented in the body of this chapter. For the purpose of explanation of the data, the numerical agreements were converted to percentage figures. The

written analysis that follows made reference only to the percentile figures.

#### *Text-Type QA*

These QAs were composed of selected MSS representing text-types and the selected Group M MSS. The purpose of these QAs was to identify the relation of the Group M MSS with the text-type representatives. The data presented in the tables that follow formed the basis for the QA assessment in this chapter. The following MSS representative of the corresponding text-type categories comprised the text-type data of the QAs:

Early Alexandrian: p<sup>66</sup>, 01, p<sup>75</sup> and 03 (p<sup>66</sup> and 01 have some Western mix)

Late Alexandrian: 04 and 032

Western: 05

Caesarean: 038, f<sup>1</sup>, f<sup>13</sup> and 565

Byzantine: (π<sup>a</sup>) 02 and 041; (K<sup>x</sup>) 045; (M10) 10;

(Byzantine and Western mix) 157

#### *John 1-4 Text-Type QA*

A total of 400 variation units were identified within the selected text-types in these four chapters. MSS 05 and 04 contain lacunae in this section, resulting in 196

Table 9. QA for John 1-4 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	F75s	03s	04s	032s	038s	F1s	F13s	S65x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	196/196																								
P66s	138/196	278/400	400/400																						
01s	112/194	331/398	269/398	398/398																					
F75s	111/196	329/400	283/400	344/398	400/400																				
03s	107/174	203/238	169/238	189/236	197/238	238/238																			
04s	107/174	203/238	169/238	189/236	197/238	238/238																			
032s	120/196	307/400	265/400	292/398	304/400	185/238	400/400																		
038s	115/196	269/400	238/400	252/398	263/400	166/238	271/400	400/400																	
F1s	112/196	285/400	255/400	274/398	267/400	172/238	277/400	308/400	400/400																
F13s	108/196	261/400	228/400	234/398	240/400	164/238	274/400	298/400	346/400	400/400															
S65x	117/196	276/400	240/400	260/398	260/400	176/238	290/400	298/400	346/400	285/400	400/400														
02s	119/196	283/400	232/400	278/398	291/400	176/238	290/400	328/400	306/400	297/400	400/400														
041s	119/196	283/400	244/400	268/398	273/400	165/238	287/400	323/400	318/400	317/400	400/400														
045s	118/196	274/400	259/400	265/398	268/400	169/238	278/400	320/400	320/400	317/400	314/400	336/400	346/400	400/400											
10y	110/196	274/400	254/398	261/400	261/400	161/238	261/400	307/400	317/400	313/400	313/400	345/400	348/400	400/400											
157x	117/196	280/400	243/400	267/398	273/400	168/238	276/400	312/400	313/400	316/400	331/400	345/400	355/400	381/400	337/400	342/400	400/400								
1194f	118/196	279/400	245/400	260/398	264/400	163/238	268/400	315/400	316/400	318/400	340/400	345/400	355/400	381/400	342/400	400/400									
1202f	118/196	285/400	249/400	267/398	266/400	168/238	279/400	328/400	330/400	318/400	326/400	328/400	346/400	358/400	348/400	369/400	400/400								
1220x	112/196	273/400	238/400	253/398	258/400	163/238	268/400	312/400	301/400	314/400	307/400	332/400	337/400	329/400	345/400	329/400	338/400	400/400							
1222x	114/196	280/400	244/400	262/398	264/400	161/238	265/400	311/400	320/400	313/400	327/400	323/400	343/400	359/400	348/400	355/400	370/400	365/400	340/400	400/400					
1237f	117/196	281/400	251/400	267/398	270/400	161/238	271/400	315/400	324/400	322/400	325/400	324/400	344/400	359/400	349/400	358/400	369/400	384/400	340/400	400/400					
1242y	117/196	283/400	248/400	260/398	270/400	169/238	272/400	316/400	310/400	316/400	320/400	320/400	339/400	349/400	348/400	352/400	350/400	364/400	359/400	359/400	400/400				
1342y	113/196	279/400	244/400	262/398	272/400	169/238	270/400	316/400	311/400	318/400	323/400	323/400	339/400	348/400	348/400	357/400	364/400	355/400	327/400	372/400	356/400	344/400	353/400	400/400	
1458f	109/196	266/400	242/400	251/398	260/400	164/238	259/400	302/400	305/400	308/400	306/400	312/400	313/400	323/400	333/400	334/400	333/400	356/400	340/400	374/400	378/400	363/400	370/400	400/400	
TR	119/196	281/400	259/400	263/398	268/400	170/238	280/400	328/400	334/400	328/400	324/400	333/400	355/400	382/400	356/400	350/400	369/400	380/400	340/400	374/400	378/400	363/400	370/400	400/400	

Table 10. QA for John 1-4 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	62.8	100.0																							
01s	70.4	69.5	100.0																						
P75s	57.7	83.2	67.6	100.0																					
03s	56.6	82.2	70.8	86.4	100.0																				
04s	61.5	85.3	71.0	80.1	82.8	100.0																			
032s	61.2	76.8	66.2	73.4	76.0	77.7	100.0																		
038s	58.7	67.2	59.5	63.3	65.8	69.7	67.8	100.0																	
f1s	57.1	71.2	63.8	68.8	66.8	72.3	69.2	77.0	100.0																
f13s	55.1	65.2	57.0	58.8	60.0	65.5	62.2	77.2	71.8	100.0															
565x	59.7	69.0	60.0	65.3	65.0	68.9	68.5	74.5	86.5	71.2	100.0														
02s	60.7	71.0	63.0	69.3	72.8	73.9	72.5	81.5	76.5	75.0	74.2	100.0													
041s	60.7	70.8	61.0	66.6	68.2	69.3	71.8	81.2	80.8	79.5	79.0	82.0	85.2	100.0											
045s	60.2	69.8	64.8	66.6	67.0	71.0	69.5	81.8	82.0	80.0	79.2	82.5	88.8	100.0											
10y	56.1	68.5	59.8	63.8	65.2	67.6	65.2	78.0	76.8	79.2	78.2	78.5	84.0	86.5	100.0										
157x	59.7	70.0	60.8	67.1	68.2	70.6	69.0	80.0	78.0	78.2	80.2	82.8	86.2	87.0	84.2	100.0									
1194f	56.6	69.8	61.2	65.3	66.0	68.5	67.0	78.8	79.0	77.8	79.5	82.0	85.0	88.8	95.2	85.5	100.0								
1202f	57.1	71.2	62.2	65.6	66.5	70.6	69.8	82.0	82.5	78.5	77.8	80.8	85.0	84.2	82.0	86.2	82.2	100.0							
1220x	57.1	68.2	59.5	63.6	64.5	68.5	67.0	78.0	75.2	78.5	77.8	76.8	83.0	84.2	82.0	86.2	82.2	84.5	100.0						
1222x	58.2	70.0	61.0	65.8	67.5	68.5	66.2	77.8	80.0	78.2	81.8	80.8	85.8	89.8	90.0	88.8	92.5	91.2	85.0	100.0					
1237f	59.7	70.2	62.8	65.8	66.0	67.6	67.8	78.8	81.0	80.5	81.2	81.0	86.0	87.2	89.8	87.0	92.2	96.0	85.0	92.5	100.0				
1242y	57.7	70.8	62.0	65.3	67.5	71.0	68.0	79.0	77.5	79.0	80.2	80.0	83.8	87.2	85.5	87.5	89.8	84.0	89.8	84.0	89.8	100.0			
1342y	57.7	69.8	61.0	65.8	68.0	71.0	67.5	79.0	77.8	78.5	79.5	80.8	84.8	89.0	87.0	87.0	89.2	91.0	84.5	91.0	90.8	88.0	100.0		
1458f	55.6	66.5	60.5	63.1	65.0	68.9	64.8	75.5	76.2	76.5	78.0	78.2	82.2	87.8	90.2	85.8	91.0	88.8	81.8	93.0	89.0	86.0	88.2	100.0	
TR	60.7	70.2	64.8	66.1	67.0	71.4	70.0	82.0	83.5	82.0	81.0	83.2	88.8	95.5	89.0	87.5	92.2	95.0	85.0	93.5	94.5	90.8	92.5	90.2	100.0

variation units for MS 05 and 238 for MS 04. The number of units was sufficient to make judgments about their relationship with the selected MSS.

The eight MSS showed the lowest agreement with MS 05, with every comparison being below 60% in agreement. The selected MSS are slightly higher in agreement with the Alexandrian text-type. With a 71.2% agreement with p<sup>66</sup>, MS 1202 has the closest conformity with any of the Alexandrian representatives.

The Caesarean witnesses are within the range of general text-type affiliation. The agreement between the selected MSS and the Caesarean MSS ranges between 77.5% and 82.5%. The range of agreement with the Byzantine witnesses is broader, but the level of conformity is higher in almost all cases. The only exception is MS 02, where the selected group has three occurrences of agreement at less than 80%. The overall agreement with the Byzantines is approximately 86%.

Among the Byzantine witnesses and the selected MSS, the highest level of agreement occurs between MSS 1194 and 10 (95.2%). The second highest percentage of concurrence is between MS 1202 and the K<sup>x</sup> representative (045), with 91.5% agreement.



The selected MSS also reveal a high level of agreement among themselves. MSS 1202 and 1237 are the closest, with 96.0% agreement. MS 1222 and MS 1458 agree in 93% of the variation units. With the exception of the relationship with MS 1220, all of the selected MSS maintain a high level (above 86%) with one another. The levels of agreement between MS 1220 and the remaining seven MSS are the seven lowest ranks among the selected group. The two lowest correlations are MSS 1448 and 1194, with 81.8% and 82.2% agreement respectively.

#### John 5-8 Text-Type QA

A total of 745 variation units were identified for this section. The omission of the *pericopae de adulterae* lowered the number of variation units in several MSS. MSS 02 and 04 contain substantial lacunae and contain less than half of the total units of variation.

The lowest level of agreement with the selected MSS was with the Western text-type witness (05). The Early Alexandrian text-type witnesses were second lowest, with conformity seldom reaching above 70%. The Late Alexandrian and the Caesarean text-type witnesses are uniformly ranked in the 70% to 80% agreement range. An important

Table 11. QA for John 5-8 with Text-Type MSS  
(Fractional Agreement)

	05s	05s	P66s	01s	P75s	03s	04s	032s	038s	11s	113s	565s	02s	041s	045s	10y	157s	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
05s	735/735																										
P66s	359/596	598/598																									
01s	419/681	414/597	683/683																								
P75s	362/657	432/579	427/658	659/659																							
03s	385/679	460/598	434/680	595/559	681/681																						
04s	147/269	198/270	184/270	224/261	227/271	271/271																					
032s	407/679	418/595	432/681	501/556	534/678	213/268	681/681																				
038s	408/685	384/598	420/680	463/659	473/681	204/271	480/681																				
11s	423/732	365/598	420/680	477/659	480/681	212/271	490/681																				
113s	407/733	365/598	399/681	428/657	422/679	190/270	432/679	534/688	543/740																		
565s	376/673	401/592	411/674	479/653	478/672	202/271	502/679	621/679	489/677	679/679																	
02s	186/334	176/249	201/331	229/315	242/331	101/134	239/331	251/335	276/338	249/337	263/334	338/338															
041s	296/538	336/499	319/515	358/493	358/678	199/242	376/513	386/519	432/548	403/546	410/518	228/267	548/548														
045s	408/732	380/595	409/680	453/656	453/681	199/271	481/678	521/688	593/739	561/740	526/676	275/338	440/548	626/742													
10y	380/735	369/598	395/683	440/659	436/681	195/271	467/681	488/691	570/742	535/743	519/679	262/338	440/548	626/742	745/745												
157s	357/677	391/598	410/678	464/657	467/679	192/271	471/676	495/679	522/679	496/677	506/673	264/329	405/513	570/676	554/679	679/679											
1194f	383/735	368/598	401/683	446/659	440/681	192/271	477/681	502/691	578/742	544/743	521/679	269/338	451/548	651/742	697/745	564/679	745/745										
1202f	397/722	379/598	406/683	455/659	450/681	202/271	473/681	510/691	596/742	545/743	530/679	270/338	457/548	656/745	565/679	679/745											
1220x	398/722	385/598	397/670	439/649	446/671	197/265	465/668	501/678	556/728	552/727	510/671	271/337	446/538	623/725	575/728	541/669	587/728	599/728	728/728								
1222x	407/735	385/598	416/683	464/659	459/681	203/271	493/681	525/691	593/742	555/743	532/679	282/338	464/548	666/742	671/745	590/679	679/745	713/745	687/745	609/728	745/745						
1237f	396/735	381/598	417/683	457/659	452/681	203/271	482/681	514/691	599/742	531/743	531/679	275/338	464/548	666/742	656/745	572/679	679/745	713/745	687/745	609/728	745/745						
1242y	383/682	374/598	419/683	473/659	470/681	205/271	490/681	506/688	535/685	514/666	516/679	271/335	427/519	597/685	577/688	548/679	586/688	596/688	557/675	606/688	596/688	688/688					
1342y	389/735	365/598	409/683	456/659	452/681	201/271	481/681	530/681	589/742	560/743	528/679	270/338	442/548	675/742	632/745	581/679	653/745	655/745	596/728	678/745	663/745	663/745	586/688	745/745			
1458f	389/735	365/598	391/683	439/659	437/681	195/271	474/681	489/681	577/742	569/743	511/679	267/338	433/548	651/742	658/745	562/679	679/745	654/745	664/745	588/728	672/745	663/745	586/688	745/745			
TR	408/735	384/598	418/683	462/659	460/681	202/271	496/681	531/691	606/742	564/743	536/679	283/338	464/548	694/742	663/745	586/679	690/745	687/745	614/728	712/745	693/745	612/688	690/745	680/745	745/745		

Table 12. QA for John 5-8 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	fls	fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	60.2	100.0																							
01s	61.5	69.3	100.0																						
P75s	55.1	74.6	64.9	100.0																					
03s	56.7	76.9	63.8	90.3	100.0																				
04s	54.6	73.3	68.1	85.8	83.8	100.0																			
032s	59.9	70.3	63.4	76.4	78.8	79.5	100.0																		
038s	59.6	65.9	64.1	70.3	69.5	75.3	70.5	100.0																	
fls	57.8	67.6	61.8	72.4	70.5	78.2	72.3	74.3	100.0																
fl3s	55.5	61.2	58.6	65.1	62.2	70.4	66.6	77.5	73.4	100.0															
565x	55.9	67.7	61.0	73.4	70.8	79.4	71.1	73.9	91.5	71.6	100.0														
02s	55.7	70.7	60.7	72.7	73.1	75.4	72.2	74.9	81.7	73.9	78.7	100.0													
041s	55.0	67.3	61.9	72.6	69.5	78.5	73.3	74.4	78.8	73.8	79.2	85.4	100.0												
045s	55.7	63.9	60.1	69.1	66.8	73.4	70.9	75.7	80.2	75.8	77.8	81.4	82.7	100.0											
10y	51.7	61.7	57.8	66.8	64.0	72.0	68.6	70.6	76.8	72.0	76.4	77.5	80.3	84.4	100.0										
157x	52.7	65.6	60.5	70.6	68.8	70.8	69.7	72.9	76.9	73.3	75.2	80.2	78.9	84.3	81.6	100.0									
1194f	52.1	61.5	58.7	67.7	64.6	70.8	70.0	72.6	77.9	73.2	76.7	79.6	82.3	87.7	93.6	83.1	100.0								
1202f	54.0	63.4	59.4	69.0	66.1	74.5	69.5	73.8	80.3	73.4	78.1	79.9	83.4	88.4	88.1	83.2	91.1	100.0							
1220x	55.1	65.5	59.3	67.6	66.5	74.3	69.6	73.9	76.4	75.9	76.0	80.4	82.9	85.9	79.0	80.9	80.6	82.3	100.0						
1222x	55.4	64.4	60.9	70.4	67.4	74.9	72.4	76.0	79.6	76.0	78.4	83.4	84.7	91.0	90.1	86.9	92.8	92.2	83.7	100.0					
1237f	53.9	63.7	61.1	69.3	66.4	74.9	70.8	74.4	80.7	74.2	78.2	81.4	84.7	89.8	88.1	84.2	91.1	95.7	83.1	92.2	100.0				
1242y	56.2	65.9	61.3	71.8	69.0	75.6	72.0	73.5	78.1	74.9	76.0	80.9	82.3	87.2	83.9	80.7	85.2	86.6	82.5	88.1	86.6	100.0			
1342y	53.5	62.7	59.9	69.2	66.4	74.2	70.6	75.3	79.4	75.4	77.8	79.9	80.7	91.0	84.8	85.6	87.7	87.9	81.9	91.0	88.6	85.5	100.0		
1458f	52.9	61.0	57.2	66.6	64.2	72.0	69.6	72.1	77.8	73.9	75.3	79.0	79.0	89.1	88.3	82.8	91.1	89.1	80.8	90.2	89.0	85.2	100.0		
TR	55.5	64.2	61.2	70.1	67.5	74.5	72.8	76.8	81.7	75.9	78.9	83.7	84.7	93.5	89.0	86.3	92.6	92.2	84.3	95.6	93.3	89.0	91.3	100.0	

characteristic of the Late Alexandrian witnesses is that MS 04 is higher (approximately 4%) in agreement than MS 032 with the selected MSS.

With a few exceptions, the Byzantine witnesses agree with the selected group at levels above 80%. The highest agreement is between MS 1194 and MS 10, with 93.6% conformity. Next in rank is the 91.0% agreement of MSS 1202 and 1237 with MS 045. This figure also reflects the close relationship between MSS 1202 and 1237 in this section (95.7% agreement). The next closest agreement among the selected MSS is the 92.8% concurrence between MS 1194 and MS 1222. The seven lowest agreement levels again come from the comparison of the MSS with MS 1220. Evaluated with MS 1220, MS 1194 is the lowest in agreement at 80.6%. MS 1458 follows close behind with an 80.8% agreement with MS 1220.

#### John 9-12 Text-Type QA

A total of 601 variation units were identified among the selected text-types in this section. MS 04 has substantial lacunae in this section and has only 134 variation units. MS 04 is not extant in chapters 10 and 12. The results of the QA with MS 04 in this section are, at best, tenuous.

Table 13. QA for John 9-12 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	ε1s	ε13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
P66s	340/597	600/600																							
01s	335/595	423/598	599/599																						
P75s	308/597	441/600	498/599	499/561	601/601																				
03s	320/597	441/600	498/599	499/561	601/601																				
04s	73/134	92/134	106/134	106/127	121/134	134/134																			
032s	328/595	412/598	464/599	453/561	484/599	109/134	599/599																		
038s	341/597	379/600	387/599	378/561	413/601	89/134	392/599	601/601																	
ε1s	322/597	382/600	412/599	396/561	428/601	86/134	366/599	429/601	437/601																
ε13s	298/597	343/600	355/599	346/561	356/601	86/134	366/599	429/601	437/601																
565x	278/525	317/528	349/527	340/503	354/529	43/59	359/527	363/529	487/529	377/529	529/529	601/601													
02s	317/597	383/600	397/599	388/561	409/601	87/134	408/599	403/601	489/601	458/601	406/529	601/601													
041s	308/527	348/530	364/531	358/493	370/531	92/134	375/531	367/531	412/531	410/531	349/459	463/531	601/601												
045s	327/597	369/600	386/599	398/561	402/601	90/134	399/599	413/601	466/601	463/601	408/529	511/601	456/531	601/601											
10y	315/597	369/600	379/599	393/561	400/601	94/134	399/599	399/601	456/601	446/601	407/529	501/601	443/531	537/601	601/601										
157x	325/595	383/597	407/596	409/558	429/598	99/134	423/596	405/598	440/598	450/598	396/526	467/598	419/530	466/598	463/598	598/598									
1194f	314/597	376/600	375/599	395/561	403/601	93/134	396/599	405/601	457/601	457/601	404/529	506/601	448/531	542/601	565/601	474/598	601/601								
1202f	316/597	374/600	377/599	390/561	401/601	91/134	401/599	407/601	465/601	465/601	414/529	515/601	457/531	554/601	559/601	472/598	567/601								
1220x	327/596	374/599	387/598	384/560	393/600	86/134	400/598	404/600	465/600	473/600	409/528	509/600	455/531	521/600	513/600	468/597	518/600	530/600							
1222x	322/597	372/600	380/599	397/561	400/601	88/134	398/599	414/601	462/601	471/601	404/529	512/601	454/531	551/601	550/601	473/598	560/601	587/601	531/600	601/601					
1237f	317/597	372/600	380/599	390/561	399/601	89/134	400/599	409/601	470/601	469/601	418/529	512/601	454/531	551/601	550/601	472/598	568/601	587/601	534/600	566/601	601/601				
1242y	317/597	365/600	377/599	387/561	395/601	89/134	402/599	433/601	462/601	468/601	406/529	475/601	419/531	555/600	548/600	465/598	500/601	505/601	534/600	519/601	507/601	603/601			
1342y	326/597	368/599	379/598	390/560	395/600	88/134	396/598	413/600	469/600	468/600	415/528	513/600	457/530	555/600	548/600	485/598	555/600	562/600	535/599	570/600	564/600	567/601	507/601	567/600	600/600
1458f	319/597	366/600	376/599	384/561	389/601	90/134	397/599	403/601	460/601	460/601	406/529	512/601	457/531	554/601	560/601	467/598	562/601	570/601	525/600	569/601	567/601	507/601	567/600	601/601	
TR	328/597	375/600	384/599	400/561	404/601	89/134	408/599	427/601	471/601	476/601	415/529	518/601	460/531	569/601	548/601	475/598	559/601	574/601	537/600	579/601	572/601	526/601	581/600	571/601	601/601

Table 14. QA for John 9-12 with Text-Type MSS  
(Percentile Agreement)

	02s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
05s	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
P66s	57.0	70.7	79.3	88.9	90.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
01s	56.3	71.4	79.3	88.9	90.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
P75s	55.3	71.4	79.3	88.9	90.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
03s	53.6	73.5	83.1	88.9	90.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
04s	54.5	68.7	79.1	83.5	90.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
032s	55.1	68.9	77.5	80.7	80.8	81.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
038s	57.1	63.2	64.6	67.4	68.7	69.8	69.8	72.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f1s	53.9	63.7	68.8	70.6	71.2	68.7	69.8	72.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f13s	49.9	57.2	59.3	61.7	59.2	64.2	61.1	71.4	72.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
565x	52.4	60.0	66.2	67.6	66.9	62.3	68.1	68.6	92.1	71.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
02s	53.1	64.2	66.3	69.2	68.1	64.9	67.8	67.1	78.0	76.2	76.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
041s	58.4	65.3	68.5	72.6	69.7	68.7	70.6	69.1	77.6	77.2	76.0	87.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
045s	54.8	61.5	64.4	70.9	66.9	67.2	66.6	68.7	77.5	77.0	77.1	85.0	85.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10y	52.8	61.5	63.3	70.1	66.6	70.1	65.9	66.4	75.9	74.2	76.9	83.4	83.4	89.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
157x	54.6	64.2	68.3	73.3	71.7	73.9	71.0	67.7	73.6	71.9	75.3	78.1	79.1	77.9	77.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194f	52.6	62.7	62.6	70.4	67.1	69.4	66.1	67.4	76.0	76.0	76.4	84.2	84.4	90.2	97.3	79.3	94.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202f	52.9	62.3	62.9	69.5	66.7	67.9	66.9	67.7	77.5	77.4	78.3	85.7	86.1	92.2	93.0	78.9	94.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1220x	54.9	62.4	64.7	68.6	65.5	64.2	66.9	67.3	77.5	78.8	77.5	84.8	85.7	86.8	85.5	78.4	86.3	88.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1222x	53.9	62.0	63.4	69.5	66.4	65.7	66.4	68.9	76.9	78.4	76.4	86.2	86.4	93.3	91.5	79.1	93.2	94.5	88.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1237f	53.1	62.0	63.4	69.5	66.4	65.7	66.4	68.9	76.9	78.0	76.4	86.2	86.4	93.3	91.5	79.1	93.2	94.5	88.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1242y	53.1	60.8	62.9	69.0	65.7	66.4	67.1	72.0	76.9	77.9	76.7	79.0	78.9	83.7	81.7	77.8	83.2	84.0	82.0	86.4	84.4	100.0	100.0	100.0	100.0	100.0
1342y	54.6	61.4	63.4	69.6	65.8	65.7	66.2	68.8	78.2	78.0	78.6	85.5	86.2	92.5	91.3	81.1	92.5	93.7	89.3	89.0	86.4	86.5	100.0	100.0	100.0	100.0
1458f	53.4	61.0	63.1	68.4	64.7	67.2	66.3	67.1	76.5	76.5	76.7	85.2	86.1	92.2	92.2	78.1	93.5	94.8	87.5	87.5	84.4	84.4	94.5	100.0	100.0	100.0
TR	54.9	62.5	64.1	71.3	67.2	66.4	68.1	71.0	78.4	79.2	78.4	86.2	86.6	94.0	91.2	79.4	93.0	95.5	89.5	96.3	95.2	87.5	96.8	95.0	100.0	100.0

The selected MSS are most clearly separated from the Western witness. The highest agreement among the selected MSS and MS 05 is 54.6%. Even where the Western text mixes with the Early Alexandrian, the selected MSS remain at a distance. The closest agreement with either MS 01 or p<sup>66</sup> is 64.7% agreement with MS 1220.

The remaining Alexandrian witnesses also reveal low agreement levels with the selected MSS in this section. Only twice does the level of agreement between the Alexandrians and the selected MSS rise above 70%. Both of these instances occur with p<sup>75</sup> (MSS 1194 and 1222).

The Caesarean witnesses have a slightly higher agreement with the selected group. However, in no case does the level of agreement reach 80%. A clearer point of distinction comes with the comparison to the Byzantines.

Among the Byzantine witnesses only MS 157 shows a weak relationship. The presence of Western mixture in this section contributes to this weak relationship. The remaining Byzantine witnesses consistently conform to the selected MSS at levels above 85%. The highest level of agreement is again MS 1194 with MS 10 (97.3%). MSS 1237 and 1458 agree with MS 10 in 93.2% of the variation units.

Among the selected group, MSS 1202 and 1237 have an extremely high (97.7%) level of agreement. Several other of the selected MSS also show a high degree of affinity. Six of the MSS have above 94% agreement with at least one other group member. Only MSS 1220 and 1242 do not reveal this high level of affinity.

The lowest levels of agreement are again with members of the selected MSS compared to MS 1220. In this section, however, MS 1242 also shows an equally low level of agreement with the group members. Neither MS 1220 nor MS 1242 ever reaches 90% agreement with the other selected MSS. Additionally, the level of agreement between these two MSS (1220 and 1242) is the lowest (82.0%) among the selected MSS for this section.

#### John 13-17 Text-Type QA

A total of 488 variation units were indicated among the text-types of this section. Lacunae are present in MSS p<sup>66</sup>, 01, p<sup>75</sup>, 04, 032, and f<sup>13</sup> in chapters 13-17. Chapter 15 is not extant in MSS 04 and 032, and p<sup>75</sup> is missing chapter 15.

The Western witness is again the most distant group from the selected MSS. The closest level of agreement with



Table 15. QA for John 13-17 with Text-Type MSS  
(Fractional Agreement)

	05a	05b	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
P66s	211/360	361/361																								
01s	267/484	266/360	484/484																							
P75s	48/93	61/87	72/93																							
03a	164/268	146/213	186/270																							
032a	250/390	226/309	293/388																							
038a	292/484	243/361	323/484																							
f1s	296/480	255/357	340/480																							
565x	241/414	194/291	272/414																							
02s	282/482	243/359	330/482																							
041s	285/484	246/361	319/483																							
045s	272/484	242/361	311/484																							
10y	273/484	237/361	304/484																							
157x	264/482	232/359	317/482																							
1194f	271/484	237/361	308/484																							
1202f	267/484	232/361	304/484																							
1220x	285/483	240/360	322/483																							
1222x	278/484	244/361	315/484																							
1237f	272/484	239/361	310/484																							
1242y	273/484	237/361	314/484																							
1342y	277/484	237/361	314/484																							
1458f	276/484	243/361	310/484																							
TR	280/484	243/361	316/484																							

Table 16. QA for John with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
05s	100.0																									
P66s	58.6	100.0																								
01s	55.5	73.9	100.0																							
P75s	51.6	70.1	77.4	100.0																						
03s	57.2	74.0	72.7	81.7	100.0																					
04s	61.2	68.5	68.9	58.3	86.3	100.0																				
032s	64.1	73.1	75.5	72.3	72.6	73.2	100.0																			
038s	60.3	67.3	66.7	76.3	66.7	65.9	68.8	100.0																		
f1s	62.1	71.4	70.8	70.8	71.2	69.3	71.6	79.3	100.0																	
f13s	56.7	63.6	64.5	62.4	61.9	66.9	65.6	77.6	78.0	100.0																
565x	58.2	66.7	65.7	64.2	67.4	65.5	66.4	78.0	88.3	81.5	100.0															
02s	58.5	67.7	68.5	74.2	69.3	69.0	70.7	82.5	77.0	78.1	76.8	100.0														
041s	58.9	68.1	66.0	74.2	66.5	69.5	67.9	84.2	79.8	81.5	78.9	87.8	100.0													
045s	56.2	67.0	64.3	75.3	64.5	70.0	66.5	84.0	79.5	83.1	81.1	83.3	85.8	100.0												
10y	56.4	65.7	62.8	78.5	63.4	65.9	65.7	82.2	79.8	83.3	81.6	82.1	83.8	91.4	100.0											
157x	54.8	64.6	65.8	68.5	66.8	69.4	66.8	81.9	75.7	82.0	77.4	81.4	83.7	83.3	83.3	100.0										
1194f	56.0	65.7	63.6	79.6	63.7	66.7	66.2	82.8	79.5	82.7	80.6	82.9	85.0	93.0	95.1	83.3	100.0									
1202f	55.2	64.3	62.8	71.0	61.4	66.7	63.4	81.1	79.1	82.1	80.4	80.9	84.4	91.6	92.0	82.3	94.1	100.0								
1220x	59.0	66.7	66.7	77.4	64.8	64.7	67.4	85.0	80.5	82.5	80.1	84.5	88.5	88.3	89.9	85.4	88.5	88.3	100.0							
1222x	57.0	67.6	65.1	81.7	65.5	68.9	67.3	84.8	80.8	84.8	83.0	83.7	85.4	93.9	93.9	85.4	95.1	92.8	90.1	100.0						
1237f	56.2	65.9	64.0	76.3	63.7	68.1	65.5	83.8	80.4	83.1	82.8	83.5	86.2	92.6	93.4	84.6	95.5	96.1	89.3	94.7	93.0	100.0				
1242y	56.4	66.2	63.8	75.3	64.1	68.1	66.0	83.2	79.8	83.7	80.9	83.3	85.2	92.6	91.0	83.7	92.6	91.2	89.3	94.7	93.0	100.0				
1342y	57.2	65.7	64.9	78.5	64.7	65.2	67.3	84.4	80.0	82.5	79.7	83.3	84.8	90.2	89.1	83.5	90.6	90.4	91.8	92.4	92.4	100.0				
1458f	57.9	65.1	64.0	80.6	63.7	67.4	65.5	83.4	79.3	83.1	81.1	84.2	85.6	92.0	92.2	83.7	94.3	92.8	88.7	93.4	93.9	92.4	100.0			
TR	57.9	67.3	65.3	79.6	65.3	69.6	67.3	84.8	81.2	84.2	81.8	84.4	86.2	94.3	93.0	84.2	95.5	94.5	91.0	96.3	95.9	96.3	94.7	95.1	100.0	

MS 05 is MS 1220, which agrees in only 59.0% of the variation units. The selected MSS are again distant from the Alexandrian witnesses. Two exceptions occur with p<sup>75</sup> in this section. MS 1222 agrees with p<sup>75</sup> in 81.7% of the variation units, and MS 1458 concurs with p<sup>75</sup> in 80.6% of the units. These unusual readings are likely due to the absence of a substantial block of source material from the p<sup>75</sup> witness and should not be viewed as establishing a tendency. With the exception of p<sup>75</sup> none of the Alexandrian witnesses reaches 70% agreement with the selected MSS.

The Caesarean witnesses are substantially higher in agreement with the selected MSS than in the previous section. The lowest level of agreement (79.1%) is actually greater than the highest level in the previous section (79.0%). The selected MSS maintain a tight configuration of agreement with the Caesarean witnesses, with an average agreement of approximately 82%.

A clear distinction can be made among the Byzantines in this section. The selected MSS are much closer in agreement with the K<sup>x</sup> witness and the M10 witness than the other Byzantine MSS. MS 10 and MSS 1194, 1222, 1237, 1458, and 1202 form pairs of the five highest occurrences of agreement among the Byzantines. The pairing of MS 1194 and

MS 10 again results in the highest level of agreement (95.1%). The remaining three highest levels occur with MS 045. The selected MSS sustain an average level of agreement with the K<sup>x</sup> and M10 witnesses greater than 90%. Thus, although the Caesarean witnesses are much closer in this section, the Byzantines once again prove their greater affinity with the selected MSS.

In chapters 13 through 17, MSS 1202 and 1237 are again the pairing with the highest level of agreement (96.1%). All of the remaining pairings of the selected MSS reveal agreement greater than 90.4%, with the exception of the comparisons with MS 1220. MS 1220 has a higher degree of affinity with the others in the group than in previous sections. However, it remains a member of the six pairs with the lowest level of agreement. The lowest level of agreement is between MSS 1220 and 1202, with a substantial 88.3% agreement.

#### John 18-21 Text-Type QA

A total of 459 variation units were identified among the text-type witnesses in this section. MSS 05, p<sup>66</sup>, and 04 have extensive lacunae in these chapters. The Early

Table 17. QA for John 18-21 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	01s	013s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	188/188	308/308																							
P66s	38/63	308/308																							
01s	99/184	200/304	448/448																						
P75s	0/0	0/0	0/0	0/0	459/459																				
03s	103/188	235/308	316/448	0/0	180/212	212/212																			
04s	86/142	82/110	136/208	0/0	339/459	149/212	459/459																		
032s	105/188	224/308	340/448	0/0	296/459	145/212	288/459	459/459																	
038s	101/188	209/308	268/448	0/0	303/458	139/211	314/458	324/458	458/458																
013s	101/187	215/308	283/447	0/0	281/458	133/212	283/458	338/458	326/457	458/458															
565x	94/186	200/302	266/442	0/0	281/453	133/211	291/453	314/453	400/452	318/452	453/453														
02s	102/188	218/308	282/448	0/0	323/453	148/212	302/459	355/459	328/458	337/458	314/453	459/459													
041s	90/171	222/308	266/435	0/0	311/442	139/195	294/442	382/442	331/441	334/441	325/436	370/442	442/442												
045s	99/188	214/308	260/448	0/0	294/459	143/212	286/459	375/459	324/458	364/458	333/453	373/459	384/442	459/459											
10y	96/188	202/308	253/448	0/0	283/459	142/212	279/459	357/459	329/453	367/459	373/459	372/442	389/459	391/459	459/459										
1194f	95/188	210/308	259/448	0/0	286/459	136/212	282/459	369/459	338/458	355/458	339/453	370/459	372/442	389/459	387/459	459/459									
1202f	92/188	206/308	249/448	0/0	284/459	141/212	283/459	359/459	321/458	366/458	326/453	364/459	369/442	411/459	435/459	387/459	459/459								
1220x	95/188	210/308	255/448	0/0	290/459	139/212	286/459	365/459	323/458	364/458	325/453	368/459	374/442	404/459	410/459	439/459	397/459	397/459	459/459						
1222x	96/188	216/308	250/448	0/0	290/459	138/212	285/459	360/459	326/458	372/458	333/453	367/459	376/442	419/459	420/459	384/459	421/459	407/459	396/459	459/459					
1237f	93/188	211/308	254/448	0/0	285/459	139/212	281/459	360/459	329/458	366/458	336/453	367/459	371/442	413/459	416/459	393/459	425/459	428/459	397/459	415/459	459/459				
1242y	99/188	215/308	256/448	0/0	281/459	136/212	292/459	367/459	327/458	369/458	327/453	356/459	360/442	391/459	392/459	372/459	395/459	387/459	387/459	397/459	401/459	459/459			
1342y	90/188	206/308	259/448	0/0	280/454	138/207	273/454	353/454	312/453	355/453	320/448	357/454	368/442	417/454	420/454	388/454	425/454	415/454	395/454	397/454	415/454	393/454	390/454	454/454	
1458f	91/183	202/308	244/447	0/0	292/459	139/212	293/459	370/459	340/458	376/458	346/453	373/459	380/442	429/459	411/459	392/459	420/459	416/459	408/459	429/459	424/459	409/459	418/459	459/459	
TR	94/188	223/308	259/448	0/0	292/459	139/212	293/459	370/459	340/458	376/458	346/453	373/459	380/442	429/459	411/459	392/459	420/459	416/459	408/459	429/459	424/459	409/459	418/459	459/459	

Table 18. QA for John 18-21 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	F1s	F13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	60.3	100.0																							
01s	53.8	65.8	100.0																						
P75s	-	-	-	100.0																					
03s	54.8	76.3	70.5	-	100.0																				
04s	60.6	74.3	65.4	-	84.9	100.0																			
032s	55.9	72.7	75.9	-	73.9	70.3	100.0																		
038s	53.7	67.9	59.8	-	64.5	68.4	62.7	100.0																	
F1s	54.0	69.8	63.3	-	66.2	65.9	68.6	70.7	100.0																
F13s	50.0	62.5	57.6	-	61.4	62.7	61.8	73.8	71.3	100.0															
565x	50.5	66.2	60.2	-	62.0	63.0	64.2	69.3	88.5	70.4	100.0														
02s	54.3	70.8	62.9	-	70.4	69.8	65.8	77.3	71.6	73.6	69.3	100.0													
041s	52.6	72.1	61.1	-	70.4	71.3	66.5	81.9	75.1	75.7	74.5	83.7	100.0												
045s	52.7	69.5	58.0	-	61.7	67.0	60.8	77.8	70.7	81.9	72.6	80.0	84.2	89.3	100.0										
10y	51.1	65.6	56.5	-	64.5	64.2	61.4	80.4	73.8	77.5	74.8	80.6	84.2	84.7	85.2	100.0									
157x	50.5	68.2	57.8	-	62.1	66.5	61.7	77.3	70.1	79.9	72.0	79.3	83.5	89.5	94.8	84.3	100.0								
1194f	50.5	66.6	55.4	-	61.9	66.0	60.8	78.2	70.5	78.8	72.4	78.9	83.3	90.0	89.3	85.6	92.2	100.0							
1202f	48.9	66.9	55.6	-	65.1	65.6	62.3	79.5	71.0	79.5	71.7	80.2	84.6	88.0	85.4	85.6	86.5	100.0							
1220x	50.5	68.2	56.9	-	63.2	65.1	62.1	78.4	71.2	81.2	73.5	80.0	85.1	91.3	91.5	83.7	91.7	88.7	86.3	100.0					
1222x	51.1	70.1	55.8	-	62.1	65.6	61.2	78.4	71.8	79.9	74.2	79.5	83.9	90.0	90.6	85.6	92.6	93.2	86.5	90.4	100.0				
1237f	49.5	68.5	56.7	-	63.4	65.2	63.6	77.6	71.4	80.6	72.2	77.6	81.4	85.2	85.4	81.0	86.1	86.3	84.7	87.4	85.6	100.0			
1242y	52.7	69.8	57.1	-	63.4	64.2	63.6	77.6	71.4	80.1	75.3	77.1	83.9	88.0	84.3	83.0	85.0	86.1	86.5	86.5	86.5	100.0			
1342y	47.9	66.9	57.8	-	61.2	64.2	60.8	80.0	71.4	80.1	75.3	77.1	83.9	91.9	92.5	85.5	93.6	91.4	87.0	92.3	91.4	86.6	85.9	100.0	
1458f	49.7	65.6	54.6	-	61.7	66.7	60.1	77.8	68.9	80.6	71.4	78.6	83.3	91.9	92.5	85.5	93.6	91.4	87.0	92.3	91.4	86.6	85.9	100.0	
TR	50.0	72.4	57.8	-	63.6	65.6	63.8	80.6	74.2	82.1	76.4	81.3	86.0	93.5	89.5	85.4	91.5	90.6	88.9	93.5	92.4	89.1	91.1	92.1	100.0

Alexandrian witness, p<sup>75</sup>, is not extant in any of this section.

The highest degree of separation from the Western text-type occurs in these chapters. The range of agreement between the selected MSS and MS 05 is between a high of 51.1% (MS 1222) and a low of 47.9% (MS 1342). The absence of the Western text-type among the selected MSS is clearest in this block section.

Likewise, the Alexandrian witnesses are more clearly separated from the selected MSS than in previous chapters. The range of affiliation of the selected MSS with the Alexandrian witnesses is between 54.6% and 70.1%. Twenty-six of the forty pairings of the Alexandrian witnesses and the selected MSS are below 65% in agreement.

The selected MSS are again closer to the Caesarean witnesses than either the Western or Alexandrian text-types. The Caesarean text-type witnesses are, however, more distant from the selected MSS than in the previous sections. The highest level of agreement is 81.2% (MS 1222 and MS f<sup>13</sup>). Only four other pairings of the selected MSS and the Caesarean witnesses result in agreement levels above 80%.

The Byzantine witnesses are the closest of the text-type MSS in agreement with the selected MSS. MSS 10 and 045 have the highest percentile agreement with the selected MSS. Half of the sixteen pairings between the selected MSS and MS 10 and 045 are above 90% in agreement. The highest level of agreement (94.8%) is again between MSS 1194 and 10. MS 1458 and MS 10 form the pair with the second highest level of agreement (92.5%).

The selected MSS again reflect their affinities with one another in this final chapter grouping. The highest level of agreement (93.6%) is between MSS 1194 and 1458. The only instance in the text-type groupings where MSS 1202 and 1237 do not have the highest level of agreement occurs here. The pairing of MS 1202 and MS 1237 is a close second, with an agreement of 93.2%. Seven other pairings of the selected MSS result in higher than 90% agreement.

The lowest level of agreement (83.2%) among the selected MSS is between MSS 1242 and 1342. The only occurrence in which MS 1220 is not a member of the pairing with the lowest level of agreement occurs here. However, the second lowest level of agreement (84.7%) is between MSS 1220 and 1237. MSS 1220 and 1242 have an overall lower degree of agreement with the other members in this section.



## John 1-21 Text-Type QA

In the Gospel of John, 2,693 variation units were identified among the selected text-type witnesses. MSS 04 and p<sup>75</sup> have large areas of lacunae. MSS 05, p<sup>66</sup>, 01, 03, 038, 565, 02, and 041 have some lacunae in the text of John. MS 04 contains less than half of the total variation units.

MS 05 is the most distant of all the text-type witnesses from the selected MSS in the QA. Only two of the selected MSS agree with the Western witness in more than 55% of the variation units. The range of agreement of the selected MSS and MS 05 is between 53.4% and 55.7%. Clearly, the selected MSS are not Western text-type in John.

MSS 01 and p<sup>66</sup> are higher in affinity to the selected MSS than MS 05, ranging between 60.3% and 66.0% in agreement. p<sup>66</sup> has higher percentages of agreement with the selected MSS than MS 01 does. However, neither of the Alexandrian/Western mixed MSS are within the range of text-type affiliation in John.

The representative Alexandrian witnesses range in agreement with the selected MSS between 61.2% and 69.6%. Among the Alexandrian MSS, p<sup>75</sup> and 04 have the highest percentages of agreement with the selected witnesses. MS 03

Table 19. QA for John 1-21 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	59.1	100.0																							
01s	58.9	70.0	100.0																						
P75s	55.3	75.4	70.9	100.0																					
03s	55.8	76.4	72.1	88.5	100.0																				
04s	58.5	74.7	69.7	82.7	85.2	100.0																			
032s	59.1	71.8	71.3	76.9	77.0	76.1	100.0																		
038s	58.5	65.9	63.3	68.0	67.4	69.5	67.2	100.0																	
f1s	57.3	68.1	65.6	70.9	56.3	71.4	70.4	74.6	100.0																
f13s	55.8	53.8	61.4	59.4	70.3	66.3	63.6	75.4	73.5	100.0															
565x	55.3	65.7	62.6	69.2	66.9	69.3	68.1	72.7	75.7	72.9	100.0														
02s	56.0	73.4	64.7	66.7	70.3	70.7	69.4	76.1	76.8	75.5	75.0	100.0													
041s	57.3	68.3	64.0	71.2	68.9	71.7	70.2	77.8	78.1	77.4	77.5	86.0	100.0												
045s	55.7	65.5	62.2	69.4	65.9	70.2	67.4	74.6	78.1	78.7	77.7	82.9	85.8	100.0											
10y	53.4	64.0	60.1	67.7	64.3	68.4	65.6	74.2	76.1	77.3	77.0	80.7	83.6	87.9	100.0										
157x	54.2	65.9	62.8	70.6	68.3	69.5	67.9	75.8	75.5	76.1	76.3	80.4	82.2	83.2	82.0	100.0									
1194f	53.4	64.6	60.3	68.7	64.8	68.3	66.5	75.1	76.6	77.4	76.8	81.4	84.0	89.7	95.1	82.8	100.0								
1202f	54.1	65.1	60.6	68.5	64.7	69.4	66.4	75.8	78.1	77.7	78.0	81.8	84.7	90.6	90.3	83.1	92.7	100.0							
1220x	55.7	65.7	61.5	67.5	65.4	67.9	66.9	76.1	76.3	78.8	76.4	81.8	85.0	86.7	84.0	82.8	84.6	85.8	100.0						
1222x	55.2	66.0	61.4	70.1	66.1	69.2	67.4	76.7	77.8	82.7	78.4	83.1	85.5	91.9	91.3	84.6	93.1	92.1	86.6	100.0					
1237f	54.3	65.4	61.7	69.0	65.1	69.0	66.8	76.1	78.6	78.6	78.9	82.4	85.3	90.9	90.9	83.8	93.1	95.8	86.4	92.9	100.0				
1242y	55.4	66.0	61.6	69.5	66.1	69.6	67.7	76.5	76.9	78.8	77.0	80.1	82.2	87.0	85.5	81.4	86.6	87.3	84.3	89.0	87.5	100.0			
1342y	54.5	64.7	61.4	69.1	65.3	68.4	66.8	76.9	77.6	78.5	78.1	81.7	84.0	90.4	87.3	83.9	89.0	89.8	86.5	91.4	90.5	87.2	100.0		
1458f	53.9	63.3	59.9	67.2	63.9	68.7	65.7	74.5	76.0	77.7	76.8	81.5	83.2	90.6	91.1	84.4	90.7	91.7	84.9	92.5	91.5	86.7	89.7	100.0	
TR	55.9	66.4	62.6	70.1	66.3	70.0	68.8	78.4	79.9	80.1	79.7	83.9	86.3	94.1	90.5	86.0	90.9	93.8	87.6	95.2	94.2	90.3	93.6	92.8	100.0

is the most distant Alexandrian witness from the selected MSS. Only one pairing of the selected MSS with the Alexandrian witnesses reveals is higher than 70% in agreement. The selected witnesses are not characteristic of the Alexandrian text-type in John.

The Caesarean MSS have significantly higher percentages of agreement with the selected MSS than the Alexandrian MSS. The selected MSS have a range of agreement with the Caesarean witnesses between 74.5% and 82.7%. MS 038 is the most distant Caesarean witness from the selected MSS, and  $f^{13}$  is the closest. The QA on the entire Gospel of John gives evidence of a distant relationship between the selected MSS and the Caesarean text-type.

The selected MSS are closely associated with the Byzantine MSS. The relationship of the selected MSS to the Byzantine MSS is clearly distinct in John. The Byzantine witnesses range in agreement with the selected MSS between 80.1% and 95.1%. MSS 045 and 10 are the closest of the Byzantine witnesses to the selected MSS. The highest individual pairing of MSS among the Byzantine witnesses is between MS 1194 and MS 10, with a 95.1% agreement. All the selected MSS have over 90% agreements with either MS 045 or

MS 10 with the exception of MSS 1220 and 1242. The selected MSS are clearly Byzantine in the Gospel of John.

The highest level of agreement for all but two of the selected MSS is with another member of the selected group. MSS 1194 and 1220 have a higher level of agreement with MSS 10 (95.1%) and 045 (86.7%) respectively. MS 1194 also has a 90.0% agreement with the selected MSS. MS 1220, however, agrees with the selected MSS in only 85.6% of the variation units. The entire group has a 90.5% agreement in the Gospel of John.

MSS 1202 and 1237 have the highest agreement of any of the pairings in the QA for the Gospel of John. The 95.8% agreement between MS 1202 and MS 1237 reflects a unique relationship and very high level of affinity between the two selected MSS. The next highest level shared between any of the selected MSS is 93.1% agreement between MS 1194 and MSS 1222 and 1237.

In the text-type QA for the entire Gospel of John, six of the selected MSS (1202, 1222, 1237, 1242, 1342, and 1458) are slightly more separated from the other Byzantine witnesses than themselves. The unique relationship between MS 1194 and MS 10 is the reason it is more closely aligned with a MS outside the group of selected MSS. MS 1194 is

also closely related to the other selected MSS. MS 1220 is more closely related to MSS outside the selected group. Therefore, all of the selected MSS, except for MS 1220, are closely related to each other in the Gospel of John.

#### Byzantine QA

The second set of QAs was generated using only representative Byzantine witnesses. The other text-type witnesses were eliminated from the QA in order to reveal the relationships among Byzantine MSS. The following MSS representative of the corresponding groups within the Byzantines were used in the production of the QAs:

Π<sup>a</sup>: 041, 489, and 1313

Π<sup>b</sup>: 726, 1113, and 1319

K<sup>x</sup>: 045

M10: 10

Caesarean:  $f^1$  and  $f^{13}$

Byzantine mix or minor cluster: 157, 60, and 1424

K<sup>f</sup>: 1247, 2382, and 1514 (mixed also)

#### John 1-4 Byzantine QA

A total of 287 variation units were identified among the selected Byzantine MSS in this section. The selected

Table 20. QA for John 1-4 with Byzantine MSS  
(Fractional Agreement)

041s	041s	489z	1313y	726y	1113k	1319k	045s	10y	f1s	f13s	157k	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287	287/287
489z	262/287	259/287	243/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287	249/287
1313y	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287	238/287
726y	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287
1113k	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287
1319k	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287	235/287
045s	240/287	237/287	239/287	231/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287	233/287
10y	221/287	230/287	208/287	201/287	200/287	202/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287
f1s	213/287	203/287	209/287	201/287	200/287	202/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287
f13s	208/287	197/287	203/287	211/287	214/287	212/287	208/287	209/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287	208/287
157k	239/287	238/287	244/287	246/287	240/287	240/287	238/287	227/287	206/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287
60x	235/287	236/287	246/287	239/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287
1424x	210/287	217/287	229/287	225/287	225/287	221/287	218/287	224/287	209/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287	203/287
1247y	230/287	240/287	245/287	240/287	242/287	234/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287	242/287
2382y	239/287	240/287	254/287	246/287	246/287	238/287	249/287	244/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287	245/287
1514z	241/287	242/287	260/287	249/287	247/287	247/287	249/287	251/287	207/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287
2392y	239/287	240/287	260/287	249/287	247/287	247/287	249/287	251/287	207/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287	205/287
1194f	225/287	224/287	236/287	234/287	231/287	232/287	242/287	266/287	208/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287	199/287
1202f	229/287	220/287	236/287	237/287	231/287	231/287	266/287	222/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287	206/287
1220x	221/287	230/287	239/287	227/287	227/287	227/287	224/287	215/287	193/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287	204/287
1222x	230/287	230/287	245/287	232/287	236/287	232/287	244/287	247/287	210/287	203/287	243/287	253/287	234/287	234/287	234/287	234/287	234/287	234/287	234/287	234/287	234/287	234/287	234/287	234/287	234/287
1237f	229/287	228/287	236/287	234/287	234/287	234/287	250/287	247/287	216/287	210/287	238/287	256/287	223/287	223/287	223/287	223/287	223/287	223/287	223/287	223/287	223/287	223/287	223/287	223/287	223/287
1242y	222/287	221/287	233/287	236/287	236/287	236/287	238/287	238/287	204/287	206/287	234/287	244/287	241/287	241/287	241/287	241/287	241/287	241/287	241/287	241/287	241/287	241/287	241/287	241/287	241/287
1340y	227/287	230/287	240/287	237/287	237/287	235/287	246/287	238/287	206/287	205/287	230/287	252/287	230/287	230/287	230/287	230/287	230/287	230/287	230/287	230/287	230/287	230/287	230/287	230/287	230/287
1458f	217/287	218/287	234/287	227/287	233/287	233/287	239/287	251/287	198/287	195/287	240/287	250/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287
TR	240/287	227/287	241/287	230/287	230/287	230/287	239/287	251/287	198/287	195/287	240/287	250/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287	229/287

Table 21. QA for John 1-4 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	100.0	100.0																								
489z	91.3	100.0																								
1313y	90.2	89.9	100.0																							
726y	82.9	84.7	86.8	100.0																						
1113x	81.9	82.9	84.0	91.6	100.0																					
1319x	81.9	82.2	83.6	91.3	91.6	100.0																				
045s	83.6	79.1	83.3	80.5	81.2	81.9	100.0																			
10y	77.0	76.7	82.9	81.2	81.9	81.2	100.0	100.0																		
f1s	74.2	70.7	72.5	70.0	69.7	70.4	76.7	69.3	100.0	100.0																
f13s	72.5	68.6	70.7	73.5	74.6	73.9	72.5	71.4	62.0	100.0																
157x	81.2	82.9	85.0	85.0	83.6	82.9	82.9	79.1	71.8	71.1	100.0															
60x	81.9	82.2	85.7	83.3	84.0	84.0	87.5	86.1	72.8	70.7	85.4	100.0														
1424x	73.9	75.6	79.8	78.4	77.0	76.0	78.0	66.2	67.6	79.1	82.6	100.0														
1247y	80.1	80.5	85.4	83.6	84.3	81.5	84.3	83.6	71.8	70.0	82.2	90.2	80.1	100.0												
2382y	83.3	83.6	88.5	85.0	85.7	82.9	86.8	85.0	73.5	71.4	85.4	92.3	81.5	96.9	100.0											
1514z	84.0	84.3	90.6	86.8	86.1	85.4	86.4	87.5	72.1	72.1	86.8	93.0	82.6	93.0	100.0											
1194f	78.4	78.0	82.2	81.5	81.2	80.8	84.3	92.7	72.5	69.3	80.8	87.5	79.1	85.4	87.1	88.2	100.0									
1202f	79.8	76.7	82.2	82.6	80.5	80.5	87.5	85.7	77.4	71.8	82.2	78.7	77.0	87.1	88.5	87.8	89.2	100.0								
1220x	77.0	80.1	83.3	79.1	79.1	76.7	78.0	74.9	67.2	71.1	81.2	78.7	75.3	78.4	80.8	76.0	78.0	100.0								
1222x	80.1	81.2	85.4	80.8	82.2	80.8	85.0	86.1	73.2	70.7	84.7	88.2	81.5	86.1	89.2	90.2	88.9	86.4	79.1	100.0						
1237f	79.8	79.4	82.2	81.5	81.5	81.5	82.1	86.1	75.3	73.2	82.9	89.2	77.7	85.7	88.2	88.5	89.9	93.7	79.4	88.9	100.0					
1242y	77.4	77.0	81.2	82.2	82.2	80.8	82.9	82.9	71.1	71.8	81.5	85.0	76.3	84.0	85.7	87.5	84.0	86.1	78.4	85.7	85.7	100.0				
1342y	79.1	80.1	83.6	82.6	81.9	81.9	85.7	82.9	71.8	71.4	84.0	87.8	80.1	86.4	88.9	89.5	86.8	87.8	78.7	87.1	88.2	100.0				
1458f	75.6	76.0	81.5	79.1	77.7	77.7	83.3	87.5	69.0	67.9	80.1	85.4	77.7	81.9	83.6	86.1	88.5	84.7	74.9	90.6	85.7	82.2	100.0			
TR	83.6	79.1	84.0	82.9	82.9	83.6	93.7	84.7	78.7	75.3	83.6	89.2	78.7	87.1	89.5	90.6	89.9	92.3	79.1	90.2	92.3	87.8	90.6	87.5	100.0	

MSS have a high percentage of agreement among themselves.<sup>1</sup> The selected MSS have their lowest agreement with the Caesarean witnesses. The lowest single agreement is between MS 1458 and  $f^{13}$  (67.9%). The overall agreement with the Caesarean MSS is below 72%.

The selected MSS are slightly more distant from the  $\Pi$  groups than the remaining Byzantine witnesses. The range of agreement between the selected MSS and the  $\Pi$  MSS is between 75.6% and 83.6%. The pairings with the  $\Pi$  MSS reveal only slight variances of agreement. None of the  $\Pi$  group MSS can be clearly distinguished from the others in amount of agreement with the selected MSS.

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<sup>1</sup>When calculating the results of the QAs for the selected MSS among the Byzantine witnesses, MS 1220 was not considered. The consistent distant relationship of MS 1220 to both the other Byzantine witnesses and the selected group members warrants the exclusion of the MS from the group computations. The problem of including MS 1220 is revealed in this section, in all of the sections that follow, and in the QA for the entire book. In the first group of chapters, MS 1220 is 8% lower in agreement with MS 10, 6.7% lower in agreement with MS 60, 5.6% lower in agreement with MS 1514, and 4.9% lower in agreement with MS 2382 than the next lowest level of any of the selected MSS. The agreement levels of the selected MSS among themselves would be skewed if MS 1220 were included. In this section, MS 1220 has a 77.8% agreement with the selected MSS, while the remaining MSS have an 83.5% agreement level. Including MS 1220 in the selected group calculation lowers the level of agreement for the selected MSS by 1.5%.



The Byzantine minor cluster MSS have a range of agreement with the selected MSS of between 76.3% and 87.8%. MS 60 is the closest in affinity with the selected MSS, with all agreement levels being over 85%. With an average agreement of 78.5%, MS 1424 is the most distant of the minor cluster representatives.

The  $K^r$ ,  $K^*$ , and M10 witnesses are the highest in agreement with the selected MSS. All of the representatives of these groups have an average agreement with the selected MSS greater than 85%. None of the representative MSS can be distinguished from one another in their relationship with the group of selected MSS. A few individual pairings, however, reveal special relationships. The highest level of agreement (92.7%) is between MS 1194 and MS 10. The next highest level of agreement (90.2%) is the pairing of MSS 1222 and 1514.

The selected MSS demonstrate a moderately high level of agreement among themselves. The average agreement between the selected MSS is 83.5%. MSS 1202 and 1237 have the highest level of agreement (93.7%) among the selected MSS. The next highest agreement (90.6%) is between MSS 1222 and 1458. In the first section, the selected MSS show a moderately high affinity with one another that is

approximately equal to the affinity they demonstrate with the  $K^r$ ,  $K^x$ , and M10 witnesses.

#### John 5-8 Byzantine QA

A total of 550 variation units were identified in this chapter grouping. The selected MSS have their lowest agreement with the Caesarean witnesses. The Caesarean witness,  $f^{13}$ , is clearly the most distant of all the Byzantines. All the levels of agreement between the selected MSS and  $f^{13}$  are below 70%.

The  $\Pi$  groups are again slightly more distant from the selected MSS than the remaining Byzantine witnesses. The range of agreement between the selected MSS and the  $\Pi$  MSS is between 71.1% and 85.5%. The majority of the pairings are below 80% in agreement.

The Byzantine minor cluster witnesses are varied in their affinity with the selected MSS. MS 157 and MS 1424 have a range of between 73.8% and 83.4% agreement. MS 60 has a much higher affinity with the selected MSS and averages 84.9% agreement.

The remaining Byzantine witnesses (and MS 60) form a group with very little difference in the level of agreement with the selected MSS. The averages of agreement between



Table 23. QA for John 5-8 with Byzantine MSS  
(Percentile Agreement)

041s	100.0	041s	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
100.0	92.4	100.0	90.7	82.1	82.9	100.0	100.0	82.9	76.9	70.4	67.8	69.1	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0
489z	92.4	100.0	80.3	82.1	82.9	100.0	100.0	82.9	76.9	70.4	67.8	69.1	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0
1313y	90.7	82.1	82.9	82.9	100.0	100.0	100.0	82.9	76.9	70.4	67.8	69.1	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0
726y	80.3	82.1	82.9	82.9	100.0	100.0	100.0	82.9	76.9	70.4	67.8	69.1	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0
1113x	78.3	80.8	82.7	82.7	89.8	100.0	100.0	82.9	76.9	70.4	67.8	69.1	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0
1319x	81.3	81.7	82.4	82.4	90.5	90.0	100.0	82.9	76.9	70.4	67.8	69.1	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0
045s	76.5	73.9	77.9	77.9	78.2	81.5	80.6	100.0	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0	100.0	100.0	100.0	100.0
10y	73.0	72.9	76.9	76.9	78.9	78.9	78.0	100.0	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0	100.0	100.0	100.0	100.0
fls	71.7	68.9	70.4	70.4	67.8	69.1	78.0	100.0	78.0	78.8	78.9	73.9	68.9	73.9	76.2	73.9	77.9	82.2	83.3	85.5	80.6	100.0	100.0	100.0	100.0	100.0
fl3s	65.5	65.0	67.2	67.2	65.1	65.3	65.3	69.0	64.2	65.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
157x	71.8	74.6	74.6	74.6	75.4	78.5	77.5	79.2	76.4	69.1	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60x	73.5	75.3	78.9	78.2	82.2	80.0	85.0	82.0	71.1	68.1	80.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1424x	67.4	69.1	72.2	74.4	77.6	77.6	77.2	75.6	64.6	62.2	73.9	80.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2382y	75.3	76.4	81.4	80.3	83.8	82.1	86.1	84.3	72.7	67.5	81.7	89.1	81.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1514z	76.0	77.5	81.8	81.1	84.4	82.9	87.2	85.3	73.1	67.7	83.8	91.8	82.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194f	77.5	77.1	81.1	80.4	82.9	82.2	88.7	84.2	74.0	69.3	83.6	90.5	81.7	91.8	93.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202f	75.8	75.0	78.0	78.5	80.9	79.8	83.9	91.6	70.7	65.3	77.7	84.2	76.8	84.5	86.2	87.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1220x	76.9	76.6	78.3	74.4	75.9	75.7	81.2	72.0	68.8	69.5	75.0	76.4	69.4	77.5	77.9	80.4	74.4	76.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1222x	78.8	79.0	82.2	83.3	85.5	83.8	87.6	86.4	72.6	69.5	83.4	88.7	81.3	88.9	90.5	91.6	90.4	89.3	78.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1237f	78.8	77.0	79.6	80.0	82.2	80.5	87.2	83.5	74.4	67.2	78.9	85.5	76.8	86.2	87.3	88.0	87.8	84.2	76.7	77.9	84.9	82.3	100.0	100.0	100.0	100.0
1242y	75.8	74.7	78.7	77.9	79.9	77.9	83.0	78.9	70.2	68.1	76.2	82.3	73.8	82.1	83.5	85.1	80.5	84.2	84.0	76.3	76.7	84.9	82.3	100.0	100.0	100.0
1342y	73.7	71.1	74.4	76.5	78.4	77.5	88.1	79.5	72.8	68.4	81.4	83.8	78.3	84.5	86.0	88.2	84.2	84.0	76.3	76.7	84.9	82.3	100.0	100.0	100.0	100.0
1458f	71.2	71.1	74.5	76.0	78.5	76.9	85.6	85.8	70.6	66.2	77.5	84.5	76.4	85.4	86.7	87.3	88.7	86.5	74.6	74.6	87.3	85.6	81.1	85.5	100.0	100.0
TR	79.0	77.0	80.9	82.2	84.2	83.1	91.2	84.7	75.5	68.8	82.0	88.2	79.5	90.2	91.6	92.5	90.0	89.1	79.3	93.8	91.1	85.5	90.4	88.5	100.0	100.0

the selected MSS and the K<sup>r</sup>, K<sup>x</sup>, and M10 witnesses (and MS 60) vary by only 3.5%. MS 1514 has the highest average (87.7%) and MS 10 has the lowest average (84.2%) among the text-type representatives. The selected MSS cannot be distinguished among these witnesses in this chapter grouping.

The average of the agreements of the selected MSS (86.1%) among themselves falls within the same range as the affinity with the K<sup>r</sup>, K<sup>x</sup>, and M10 witnesses. Again MS 1202 and MS 1237 distinguish themselves as a unique pair, with an agreement of 94.2%. With an agreement level of 90.4%, MSS 1194 and 1222 have the second highest level of affinity among the selected MSS. The lowest level of agreement (80.5%) is between MS 1194 and MS 1242.

#### John 9-12 Byzantine QA

A total of 361 variation units were identified among the Byzantine witnesses in this section. The Caesarean witnesses are the most distant from the selected MSS in this chapter grouping. The range of agreement between the selected MSS and the Caesarean witnesses is from 67.9% to 73.1%. MSS 157 and 1424 are roughly equally distant from the selected MSS in these chapters.

Table 24. QA for John 9-12 with Byzantine MSS (Fractional Agreement)

041s	041s	489z	1313y	726y	1113x	1319k	045s	10y	†1s	†1s	157k	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220k	1222x	1237f	1242y	1342y	1458f	TR
489z	301/319	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361
1313y	281/319	317/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	
726y	262/319	297/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	309/361	
1113x	249/319	284/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	296/361	
045s	246/319	274/361	284/361	277/361	286/361	279/361	271/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	280/361	
10y	234/319	263/361	249/361	277/361	279/361	271/361	233/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	251/361	
†1s	227/319	256/361	249/361	246/361	244/361	233/361	247/361	259/361	241/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	246/361	
157k	226/319	250/360	258/360	246/360	252/360	247/360	253/360	251/360	251/360	248/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	243/360	
60x	233/316	261/358	288/358	288/358	279/358	275/358	305/358	298/358	298/358	249/358	253/357	264/357	360/360	358/358	358/358	358/358	358/358	358/358	358/358	358/358	358/358	358/358	358/358	358/358	
1424x	196/318	225/360	246/360	243/360	250/360	244/360	260/360	253/360	254/360	204/360	216/360	219/360	219/360	219/360	219/360	219/360	219/360	219/360	219/360	219/360	219/360	219/360	219/360	219/360	
1247y	244/319	278/361	304/361	287/361	290/361	287/361	317/361	304/361	304/361	267/361	250/360	312/358	262/360	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	
2382y	249/319	282/361	309/361	292/361	298/361	289/361	321/361	310/361	266/361	266/361	254/360	321/358	268/360	332/361	337/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	
1514z	252/319	281/361	308/361	309/361	300/361	289/361	329/361	314/361	263/361	263/361	254/360	323/358	270/360	332/361	327/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	
1194f	238/319	268/361	302/361	274/361	278/361	278/361	303/361	343/361	245/361	250/361	258/360	309/358	252/360	315/361	320/361	329/361	329/361	329/361	329/361	329/361	329/361	329/361	329/361	329/361	
1202f	245/319	270/361	302/361	284/361	290/361	287/361	314/361	318/361	253/361	268/361	257/360	312/358	245/360	315/361	320/361	329/361	329/361	329/361	329/361	329/361	329/361	329/361	329/361	329/361	
1220k	243/319	275/361	291/361	280/361	284/361	278/361	308/361	276/361	258/361	268/361	256/360	316/358	269/360	326/361	332/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	
1222x	245/319	272/361	303/361	284/361	290/361	290/361	319/361	309/361	247/361	263/361	259/360	310/358	251/360	321/361	334/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	
1237f	241/319	267/361	296/361	277/361	289/361	277/361	309/361	317/361	259/361	262/361	259/360	310/358	251/360	312/361	321/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	361/361	
1242y	229/319	252/361	271/361	259/361	269/361	262/361	279/361	270/361	257/361	266/360	257/361	268/360	271/358	243/360	284/361	289/361	299/361	277/361	297/361	297/361	297/361	297/361	297/361	297/361	
1442y	240/319	267/361	286/361	283/361	289/361	281/361	311/361	309/361	252/361	266/360	266/360	313/358	270/360	321/361	327/361	317/361	314/361	320/361	299/361	328/361	328/361	328/361	328/361	328/361	
1458f	246/319	265/361	292/361	279/361	285/361	278/361	316/361	316/361	249/361	256/361	256/361	310/358	262/360	318/361	323/361	333/361	326/361	333/361	297/361	329/361	329/361	329/361	329/361	329/361	
TR	247/319	269/361	298/361	284/361	292/361	291/361	324/361	306/361	257/361	269/361	259/360	314/358	263/360	325/361	330/361	338/361	321/361	335/361	300/361	338/361	338/361	338/361	338/361	338/361	

Table 25. QA for John 9-12 with Byzantine MSS  
(Percentile Agreement)

041s	100.0	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	94.4	100.0																									
1313y	88.1	87.8	100.0																								
726y	82.1	82.3	84.8	100.0																							
1113x	81.5	80.9	83.9	82.0	84.5	87.3	100.0																				
1319x	78.1	78.7	82.0	76.7	79.2	77.6	100.0																				
045s	77.1	75.9	83.7	76.7	79.2	77.6	100.0																				
10y	73.4	72.9	78.7	76.7	79.2	75.1	82.5	100.0																			
f1s	71.2	70.9	74.5	69.0	68.1	67.6	64.5	69.5	68.1	100.0																	
f13s	73.0	70.9	74.5	69.0	68.8	71.5	68.4	71.7	66.8	68.1	100.0																
157x	70.8	69.4	71.7	68.3	70.0	68.6	70.3	69.7	68.9	67.5	100.0																
60x	73.7	72.9	80.4	78.2	77.9	76.8	85.2	83.2	69.7	68.9	67.5	100.0															
1424x	61.6	62.5	68.3	67.5	69.4	67.8	72.2	70.3	56.7	60.0	61.0	73.9	100.0														
1247y	76.5	77.0	84.2	79.5	80.3	79.5	87.8	84.2	70.4	74.0	69.4	87.2	72.8	100.0													
2382y	78.1	78.1	85.6	80.9	82.5	79.5	88.9	85.9	70.9	73.7	70.6	89.7	74.4	97.0	100.0												
1514z	79.0	77.8	85.3	82.3	83.1	80.1	91.1	87.0	72.6	72.9	73.1	90.2	75.0	92.0	93.4	100.0											
1194f	74.6	74.2	80.6	75.9	77.0	77.0	83.9	95.0	67.9	69.3	71.7	86.3	70.0	87.0	88.6	90.0	100.0										
1220x	76.8	74.8	83.7	78.7	80.3	79.5	87.0	88.1	70.1	71.7	87.2	70.6	87.3	88.6	91.1	91.4	100.0										
1222x	76.8	75.3	83.9	78.7	80.3	80.3	88.4	85.6	68.4	72.9	71.7	88.3	74.7	80.3	82.2	82.5	88.9	90.9	90.9	81.7	100.0						
1237f	75.5	74.0	82.0	76.7	78.4	72.6	85.6	87.8	70.6	72.6	70.8	86.6	69.7	86.4	88.1	90.6	91.1	96.1	96.1	82.3	89.8	100.0					
1242y	69.9	69.8	75.1	71.7	73.4	72.6	77.3	74.8	73.1	71.2	74.4	75.7	67.5	78.7	80.1	81.2	76.7	78.4	75.9	82.3	89.8	100.0					
1342y	75.2	74.0	82.0	78.4	80.1	77.8	86.1	84.5	69.8	71.2	73.9	87.4	75.0	88.9	90.6	93.4	87.0	88.6	82.8	90.9	88.6	82.0	100.0				
1458f	77.1	73.4	80.9	77.3	78.9	77.0	87.5	88.1	65.0	70.9	70.6	86.6	72.8	88.1	89.5	92.2	90.3	92.2	80.6	91.1	90.9	79.2	100.0				
TR	77.4	74.5	82.5	78.7	80.9	80.6	89.8	84.8	71.2	74.5	71.9	87.7	73.1	90.0	91.4	93.6	88.9	92.8	83.1	93.6	91.7	83.9	92.2	100.0			

The  $\Pi$  group is slightly closer to the selected MSS than the Caesareans. MS 1313 is distinguishable from the other  $\Pi$  group MSS in this section. The average agreement for the whole  $\Pi$  group is more than 4% lower than the average agreement between the selected MSS and MS 1313. None of the percentages, however, are sufficient to indicate textual affinity with the  $\Pi$  group.

The  $K^f$  witnesses are higher in this section than in previous sections. MSS 1514 and 2382 are sufficiently higher than the remaining Byzantine witnesses (MSS 045, 10, 60, and 1247) to indicate a higher degree of affinity with the  $K^f$  group in this section. The selected MSS have an average agreement with MS 1514 of 90.1% in chapters 9-12. The level of agreement between the selected MSS and MS 045 is only 85.1%. Additionally, the selected MSS have a higher average of agreement with MS 1514 and MS 2382 than among themselves.

Among the selected MSS, MS 1242 has the lowest percentages of agreement with nearly all of the Byzantine witnesses and with the other selected MSS.<sup>2</sup> The low result

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<sup>2</sup>MSS 1458 and 1342 (and MS 1220) are lower in agreement with  $f^1$  and MS 157. MS 1458 is lower in agreement with  $f^{13}$ .



indicates a shift in the text-type of MS 1242 in this section, with probable influence from a Caesarean source.<sup>3</sup>

Among the selected MSS, the highest level of agreement is again between MSS 1202 and 1237. The 96.1% agreement between MSS 1202 and 1237 for this section is the highest of any of the Byzantine chapter grouping QAs. The second highest affinity (92.2%) is between MSS 1202 and 1458. The selected MSS have an average of 87.4% agreement among themselves in chapters 9-12.

#### John 13-17 Byzantine QA

A total of 316 units of variation were identified in this section of John. All of the Byzantine witnesses have a highest average of agreement with the selected MSS in this section. Two of the  $\Pi$  group witnesses, MSS 041 and 489, are the most distant of the text-types from the selected MSS. The range of agreement between the selected MSS and MSS 041 and 489 is from 74.3% to 78.7%.

The Caesareans and the remaining P group members constitute the group of six witness with the next lowest agreement with the selected MSS. The selected MSS have

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<sup>3</sup>In the text-type QA for John 9-12, MS 1242 is 4.1% higher in agreement with MS 038 than the average of the remaining selected MSS.

Table 26. QA for John 13-17 with Byzantine MSS  
(Fractional Agreement)

041B	489Z	1313Y	726Y	1113X	1319K	045S	10Y	F1S	F1S	F1S	157X	60X	1424K	1247Y	2382Y	1514Z	1194F	1202E	1220X	1222X	1237E	1242Y	1342Y	1458F	TR	
315/315	283/314	315/315	316/316	270/312	312/312	313/313	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
489Z	283/314	315/315	316/316	270/312	312/312	313/313	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
1313Y	245/312	236/311	258/312	270/312	312/312	313/313	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
726Y	245/312	236/311	258/312	270/312	312/312	313/313	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
1113X	236/312	234/312	253/313	261/316	270/312	312/312	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
1319K	236/312	234/312	253/313	261/316	270/312	312/312	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
045S	246/315	239/315	260/316	247/312	260/316	249/313	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
10Y	235/315	239/315	260/316	247/312	260/316	249/313	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
F1S	244/312	227/312	248/314	232/309	229/313	231/310	250/313	246/314	244/314	245/311	314/314	314/314	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
F1S	244/312	227/312	248/314	232/309	229/313	231/310	250/313	246/314	244/314	245/311	314/314	314/314	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	
157X	248/315	242/315	250/316	235/312	230/316	228/313	247/316	248/316	241/313	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314
60X	239/315	234/315	260/316	254/312	251/316	248/313	279/316	248/316	241/313	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314	250/314
1424K	196/315	201/315	219/316	218/312	235/316	242/313	242/316	236/316	211/313	217/314	213/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316	240/316
1247Y	281/315	242/315	270/316	260/312	260/316	238/313	279/316	278/316	248/313	253/314	251/316	282/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316
2382Y	248/315	244/315	278/316	267/312	264/316	239/313	286/316	278/316	248/313	253/314	251/316	282/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316
1514Z	250/315	246/315	278/316	267/312	264/316	239/313	286/316	278/316	248/313	253/314	251/316	282/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316	243/316
1194E	243/315	238/315	266/316	250/312	251/316	246/313	284/316	251/313	245/314	259/316	293/316	248/316	296/316	304/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316	316/316
1202E	240/315	234/315	259/316	241/312	248/316	246/313	276/316	247/313	245/314	259/316	273/316	236/316	274/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316
1220X	257/314	252/314	267/315	241/311	240/315	240/315	279/316	247/313	241/313	245/315	251/316	230/316	274/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316	282/316
1222X	241/315	239/315	270/316	253/312	255/316	248/313	284/316	253/313	246/314	254/316	278/316	241/316	282/316	287/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316
1237E	248/315	242/315	269/316	257/312	258/316	255/313	283/316	283/316	246/314	254/316	278/316	241/316	282/316	287/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316	291/316
1242Y	245/315	235/315	265/316	255/312	258/316	255/313	282/316	251/313	251/314	251/316	279/316	241/316	283/316	288/316	290/316	290/316	290/316	290/316	290/316	290/316	290/316	290/316	290/316	290/316	290/316	290/316
1342Y	248/315	234/315	265/316	246/312	248/316	244/313	287/316	247/313	240/314	245/316	262/316	233/316	280/316	284/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316
1458F	246/315	239/315	269/316	250/312	252/316	249/313	279/316	251/313	248/314	250/316	271/316	233/316	278/316	284/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316	288/316
TR	248/315	241/315	269/316	257/312	260/316	255/313	288/316	281/316	251/314	251/316	281/316	243/316	285/316	292/316	298/316	298/316	298/316	298/316	298/316	298/316	298/316	298/316	298/316	298/316	298/316	298/316

Table 27. QA for John 13-17 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
041s	100.0	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
489z	90.1	100.0	86.0	82.7	87.9	86.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1313y	88.3	86.0	100.0	82.6	86.5	86.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
726y	78.5	75.9	74.3	82.6	86.5	86.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1113x	75.6	74.3	82.6	86.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1319x	75.6	75.0	80.8	87.4	87.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
045s	78.1	75.6	83.2	79.2	79.1	77.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10y	74.6	75.9	82.3	78.5	76.9	78.6	86.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f1s	78.2	72.8	79.2	75.1	73.2	74.5	79.9	79.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f13s	78.2	71.6	80.9	79.1	75.5	76.8	78.3	77.7	78.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
157x	78.7	76.8	79.1	75.3	72.8	72.8	78.2	78.5	77.0	79.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60x	75.9	74.3	82.3	81.4	79.4	79.2	88.3	85.8	78.6	78.3	79.1	89.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1424x	62.2	63.8	69.3	69.9	74.4	71.6	76.6	74.7	67.4	69.1	67.4	75.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1247y	76.5	76.8	85.4	83.3	82.3	82.4	88.3	88.0	79.2	78.7	79.4	89.2	76.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2382y	78.7	77.5	87.0	85.6	83.5	82.7	90.5	90.2	81.8	80.6	81.3	91.8	77.8	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1514z	79.4	78.1	87.0	84.3	83.5	82.1	93.0	89.6	82.1	81.5	82.0	92.7	78.5	93.7	96.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194f	77.1	75.6	84.2	80.1	79.4	78.6	89.9	89.0	78.0	79.1	87.3	74.7	88.0	90.2	92.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202f	76.2	74.3	82.0	79.5	78.5	78.6	87.3	88.3	78.9	77.0	86.4	72.8	86.7	89.2	91.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1220x	81.8	80.3	84.8	81.1	80.7	79.2	89.6	89.9	80.8	80.6	80.4	88.0	76.3	89.2	90.8	92.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1222x	76.5	75.9	85.4	81.1	80.7	79.2	89.6	89.9	80.8	80.6	80.4	88.0	76.3	89.2	90.8	92.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1237f	78.7	76.8	85.1	82.4	81.6	80.5	89.6	89.6	80.5	78.3	80.7	88.9	75.0	88.3	90.5	92.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1242y	77.8	74.6	83.9	81.7	81.6	81.5	89.2	88.4	80.2	79.9	79.4	88.3	76.3	89.6	91.1	91.8	89.6	87.3	83.8	92.1	89.9	100.0	100.0	100.0	100.0	100.0	100.0
1342y	75.6	74.3	80.1	78.8	78.5	78.0	84.5	82.0	76.4	77.5	77.5	82.9	72.2	84.8	86.7	88.0	84.8	84.5	86.0	86.4	87.0	87.3	100.0	100.0	100.0	100.0	100.0
1458f	78.1	75.9	85.1	80.1	79.7	79.6	88.0	88.3	80.2	79.0	79.1	85.8	73.7	88.0	89.9	91.1	92.1	90.5	83.2	90.2	91.8	89.9	85.4	100.0	100.0	100.0	100.0
TR	78.7	76.5	85.1	82.4	82.3	81.5	91.1	88.9	82.4	79.9	79.4	88.9	76.9	90.2	92.4	94.3	93.4	91.8	85.7	93.4	93.7	94.9	90.8	93.7	100.0	100.0	

agreement levels with these six MSS ranging from 76.4% to 85.1%. All of these six MSS are within the range of general text-type affiliation with the selected MSS.

The Byzantine minor cluster MSS are again varied in their agreement with the selected MSS. MS 60 is an average of more than 7% higher in agreement with the selected MSS. MS 60 is, however, slightly lower in agreement than the MSS from the groups.

The K<sup>r</sup>, K<sup>x</sup>, and M10 witnesses have similar levels of group agreement with the selected MSS. The average group agreement with the selected MSS ranges between 87.8% and 91.3%. MS 1514 has the highest agreement, and MS 1247 has the lowest. The highest level of individual agreement (93.0%) is again MS 1194 with MS 10. The selected MSS again demonstrate a high level of affinity with the K<sup>r</sup>, K<sup>x</sup>, and M10 witnesses. The similarities of agreement, however, blur the lines of distinction between the levels of affinity of the selected MSS with the various Byzantine groupings.

The selected MSS also show a high level of agreement among themselves in this section. The average agreement between the selected MSS is 89.6% in chapters 13-17. With a 94.3% agreement in the variation units, MSS 1202 and 1237 are again the pairing with the highest agreement level. MSS

1194 and 1202 also have a high level of agreement (94.0%). Only two pairings of the selected MSS in this section are below 85% in agreement.

#### John 18-21 Byzantine QA

A total of 289 variation units were identified for the final chapter grouping in the Gospel of John. The Caesarean and  $\Pi$  group MSS were again the most clearly separated from the selected MSS. The level of agreement of the Caesareans and the  $\Pi$  group MSS with the selected MSS ranges from 71.7% to 80.3%. Thus, in chapters 18-21 the selected MSS have a slight degree of textual affinity with the Caesareans and  $\Pi$  group witnesses.

In this section, the Byzantine minor cluster witnesses have the lowest agreement with the selected MSS of any of the chapter groupings. The average agreement between the selected MSS and MSS 157, 60, and 1424 is 81.1%. The  $K^f$ ,  $K^x$ , and M10 witnesses average 85.5%, 83.7%, and 84.0% respectively. The highest level of agreement (91.0%) among any of the pairings is again MS 1194 and MS 10. The next highest level of agreement (89.5%) is between MSS 1458 and 1514. Thus, in this section, the selected MSS have slightly



Table 29. QA for John 18-21 with Byzantine MSS  
(Percentile Agreement)

041s	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382x	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1458f	TR	
100.0	94.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
489z	90.8	87.9	87.9	87.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
1313y	78.9	75.3	77.1	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8
726y	78.2	75.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8
1113x	78.5	74.7	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1	76.8	76.1
1319x	80.6	75.8	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
045s	77.1	73.7	78.2	78.8	79.6	79.2	83.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10y	77.1	74.3	75.0	72.5	72.6	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
f1s	71.8	67.1	71.6	70.8	72.0	74.0	76.1	78.9	77.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f13s	72.2	68.5	73.7	73.3	75.1	73.0	77.2	78.2	79.5	74.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
157x	77.8	74.4	77.2	73.3	75.1	73.0	77.2	78.2	79.5	74.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60x	72.2	68.5	73.7	73.3	75.1	73.0	77.2	78.2	79.5	74.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1424x	70.0	67.7	73.3	73.9	78.1	75.0	80.2	79.5	74.0	72.6	83.5	81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1247y	79.5	75.8	80.4	79.3	81.4	79.6	86.0	88.1	72.5	78.9	81.4	83.5	81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2382x	82.0	78.5	82.4	81.9	84.1	81.7	88.6	88.2	75.3	79.6	82.0	86.2	81.6	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1514z	82.7	77.9	83.0	81.9	83.7	82.4	92.0	88.9	77.4	82.4	81.7	88.2	83.0	92.3	94.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194f	76.4	72.3	77.5	76.0	75.8	76.5	83.7	91.0	72.9	77.9	77.9	81.0	75.7	84.6	85.8	86.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202f	76.1	72.7	77.2	76.4	77.2	77.5	84.1	82.4	74.3	75.4	80.3	81.0	76.0	85.3	86.9	87.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
1220x	76.4	73.4	76.8	74.0	75.8	75.1	80.6	76.8	73.3	75.8	78.2	77.5	71.9	80.4	82.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
1222x	77.5	74.7	77.2	76.7	77.9	78.5	85.8	86.5	74.3	79.2	75.8	83.4	77.1	85.6	87.2	89.3	86.5	83.4	79.6	100.0	100.0	100.0	100.0	100.0	100.0
1237f	75.5	74.0	78.5	79.2	78.5	79.6	84.8	84.4	75.3	77.2	80.3	81.7	78.1	86.3	88.2	88.2	88.6	86.6	90.3	79.2	85.5	100.0	100.0	100.0	100.0
1242y	75.7	72.0	76.8	74.3	76.1	75.1	79.9	80.6	75.0	78.2	75.4	79.9	75.0	82.1	84.1	84.1	82.7	82.4	78.9	84.1	81.7	100.0	100.0	100.0	100.0
1458f	76.1	71.8	72.0	73.7	72.9	74.7	81.0	75.4	75.0	77.2	75.1	76.1	75.0	79.6	81.7	82.0	81.7	82.0	78.9	82.4	82.4	82.4	82.4	82.4	82.4
TR	78.9	73.4	79.9	79.2	81.0	80.3	89.3	83.4	79.2	80.6	78.5	82.7	78.5	84.6	87.2	90.0	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9

more affinity with K<sup>r</sup>, K<sup>x</sup>, and M10 witnesses than with the Byzantine minor cluster representatives.

The selected MSS again reflect their affinities with one another in this final section. The selected MSS have an average agreement level of 84.0% in chapters 18-21. The highest level of agreement (90.6%) is between MSS 1194 and 1458. In the Byzantine chapter groupings, MSS 1202 and 1237 do not have the highest level of agreement only in this section. With an agreement of 90.3%, the pairing of MS 1202 and MS 1237 is the second highest in agreement. The level of agreement between MSS 1194 and 1458 and between 1202 and 1237 are the only pairings that are higher than 90%.

The lowest level of agreement (77.5%) among the selected MSS is between MSS 1242 and 1342. MS 1342 has an overall lower degree of agreement with the other selected MSS in this section. Only once (with MS 1237) does the level of agreement of any of the pairings with MS 1342 reach above 80%. The relationship of MS 1342 to the other selected MSS in this section is tenuous.

#### John 1-21 Byzantine QA

Among the Byzantine witnesses, a total of 1,803 variation units were identified in the entire Gospel of



Table 30. QA for John 1-21 with Byzantine MSS  
(Percentile Agreement)

041s	041s	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
100.0	100.0	92.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
489z	89.6	89.5	80.4	82.9	89.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1313y	80.5	80.4	79.1	82.9	89.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
726y	79.0	79.1	79.1	82.9	89.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1113x	79.0	79.1	79.1	82.9	89.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1319x	79.2	78.9	81.2	88.3	89.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
045s	81.0	75.7	81.6	78.5	80.3	79.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10y	74.8	74.2	79.4	77.9	78.7	78.5	82.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
fls	74.6	70.8	72.7	70.2	70.3	70.0	74.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
fl3s	71.4	68.2	72.3	70.8	70.9	70.7	72.9	70.6	69.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
157x	75.8	75.3	77.5	75.2	76.0	75.5	77.4	76.1	72.6	71.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60x	75.3	74.7	80.1	79.4	80.8	79.6	85.6	84.0	72.6	75.3	78.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1424x	66.8	67.6	72.3	72.7	75.6	73.4	76.6	75.4	64.2	65.8	70.7	78.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1247y	77.4	77.1	83.1	81.0	82.5	81.2	86.5	85.4	73.2	73.0	78.8	88.0	78.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2382y	79.3	78.8	84.6	82.6	84.0	82.0	88.3	86.7	74.6	73.6	80.6	90.6	79.7	96.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1514z	80.2	78.7	84.8	82.7	83.7	82.3	90.1	87.0	75.4	74.7	81.3	90.1	80.1	92.4	94.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194f	76.4	75.0	80.2	78.4	79.1	78.8	85.0	92.6	72.4	71.0	77.2	85.2	75.2	85.8	87.5	88.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202f	78.1	74.9	80.6	79.2	79.9	79.1	85.9	92.6	74.6	71.4	77.6	85.7	75.3	86.2	87.7	88.6	89.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1220x	77.7	77.2	80.4	76.3	77.0	76.6	80.2	76.3	71.5	73.0	76.8	78.0	70.3	80.1	81.6	82.1	77.6	79.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1237f	78.1	77.4	82.8	80.5	81.9	81.0	87.4	70.3	73.6	73.9	79.4	87.6	78.4	88.2	90.2	91.2	89.5	88.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0
1242y	75.3	73.5	79.0	77.4	78.6	76.3	82.4	80.3	73.6	73.1	77.2	82.1	73.6	83.0	84.6	85.7	82.3	83.0	78.5	80.1	89.2	100.0	100.0	100.0	100.0
1342y	75.8	73.8	78.0	77.1	78.1	77.5	85.6	80.8	73.4	72.3	81.1	83.8	76.2	85.0	86.8	88.4	84.2	84.8	80.0	86.7	86.0	82.9	100.0	100.0	100.0
1458f	75.4	73.3	79.4	77.6	78.1	77.6	86.6	87.3	71.9	71.6	77.2	85.3	76.0	85.7	87.5	89.1	89.9	87.8	78.3	89.3	88.1	82.9	85.3	100.0	100.0
TR	79.4	76.2	82.3	81.1	82.4	85.9	91.0	85.3	76.9	74.8	79.1	87.5	77.4	88.8	90.7	92.3	89.9	90.5	81.5	92.5	91.6	87.4	90.5	90.0	100.0

John. All of the representative MSS have sufficient text to validate the results of the QA. The Caesarean witnesses are the farthest removed from the selected MSS, ranging in agreement between 71.0% and 75.0%. The Caesarean witnesses do not fall within the closest range of textual affiliation with the selected MSS.

The  $\Pi^a$  and  $\Pi^b$  witnesses are also distant from the selected MSS. The range of agreement between the  $\Pi$  group witnesses and the selected MSS for the entire Gospel of John is from 73.3% to 82.8%. Only eight of the forty-two pairings of the selected MSS with the  $\Pi$  group MSS are above 80% in agreement. The  $\Pi^a$  and  $\Pi^b$  witnesses are within the range of textual affiliation with the selected MSS, but are not in a close relationship.

The Byzantine minor cluster MSS have diverse relationships with the selected MSS. MSS 157 and 1424 show almost no textual affinity with the selected MSS. Only once (MSS 1342 and 157) does the level of agreement between the one of the selected MSS and either MSS 157 or 1424 exceed 80%. MS 60, however, has an average agreement of 85.1%, which shows definite textual affinity with the selected MSS.

The M10 representative MS has a wide range of agreement with the selected MSS. MS 1194 agrees with MS 10 in 92.6% of the variation units. MS 1222, however, agrees with MS 10 in only 70.3% of the variation units. The remaining selected MSS range between 80.3% and 87.3% agreement with MS 10. These figures clearly show a strong textual affinity between MSS 1194 and MS 10 and suggest that MS 1194 is core member of the M10 group. The QA results also show the scarcity of textual affinity between MS 1222 and the M10 group. The remaining selected MSS fall within the range of general textual affinity with the M10 group.

The selected MSS have a high level of agreement with the K<sup>x</sup> witnesses in the Gospel of John. The average agreement of the selected MSS is 88.7% with MS 1514, 87.5% with MS 2382, and 85.8% with MS 1247. Two of these MSS (1514 and 2382) are higher in agreement than the level of agreement for the selected MSS among themselves.

For the entire Gospel of John, the average agreement of the selected MSS among themselves is 86.8%. MS 1220 agrees with the other selected MSS in only 79.1% of the variation units. MS 1220 clearly demonstrates a lack of identity with the remaining selected MSS among the

Byzantine text-type QAs. The QA of the entire Gospel of John reveals a group affinity among all the other members of the M group. While some variance occurs, the selected MSS remain consistently within the range of group affinity for the entire Gospel of John.

The highest level of agreement between two members of the M group is the pairing of MSS 1202 and 1237. For the entire Gospel of John QA, MS 1202 and MS 1237 have a 93.9% concurrence in the variation units. Therefore, MSS 1202 and 1237 have a high level of affinity for the entire Gospel of John.

While the selected MSS demonstrate a high level of textual affinity among themselves (except for MS 1220), they cannot be distinguished from the  $K^f$ ,  $K^x$ , or M10 groups. Thus, among the Byzantine witnesses, the selected MSS are clearly distinguishable from the Caesarean witnesses and the  $\Pi$  group and clearly demonstrate the presence of  $K^f$ ,  $K^x$ , M10, and, to a lesser degree, minor cluster mixture.

## CONCLUSION

The purpose of this study was to determine the textual relationships of the selected MSS in the Gospel of John. All of the eight selected MSS were shown to be firm members of the Byzantine text-type. Little more was proven definitively for the entire group. Significant conclusions, however, were made about some of the individual MSS.

MS 1194 may be categorized properly as a core member of the M10 group.<sup>1</sup> The MS revealed unparalleled ties to the M10 group in both the text-type and Byzantine QAs. In the QAs for the entire Gospel, MS 1194 maintained a 95.1% and 92.6% agreement with MS 10 in the text-type and Byzantine QAs respectively. The next highest affinity shown by any of the selected MSS to a MS outside the selected group was between MSS 1222 and 1514 with 91.2% agreement in the

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<sup>1</sup>Based upon the CPM test readings, Wisse classified MS 1194 as an M10 group member in chapters 1, 10, and 20 of Luke. See Wisse, *The Profile Method*, 72.

Byzantine QA and between MSS 1222 and 045 with 91.9% agreement in the text-type QA<sup>2</sup>.

The block readings confirm the data observed in the overall analysis. Even in the troublesome *pericopae de adulterae* passage with its problematic tendencies, MS 1194 maintained a 92.4% level of agreement with MS 10. Furthermore, in each of the ten QAs for the chapter groupings, the highest level of agreement in the MS pairings is between MSS 1194 and 10.

In the Byzantine QAs of individual chapters, MS 1194 was superceded only twice in its relationship with MS 10. In chapter 5, MS 1458 had a 2.2% higher affinity (92.4% vs. 90.2%) and in chapter 17 MSS 1242 and 1458 had a 2% higher level of agreement with MS 10 than MS 1194 (88.5% vs. 86.5%). MS 1194 was an average of approximately 4% higher than any other MS in affinity to MS 10 in the other chapter readings.<sup>3</sup>

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<sup>2</sup>In both cases MS 1222 had higher agreement with the TR. Since the TR is a composite MS, these results were not considered significant for MS identity with another individual MS.

<sup>3</sup>See appendix 3. The high was in chapter 12, where MS 1194 and MS 10 were 8.1% closer in agreement than any other MS was to MS 10.

MS 1220, while clearly Byzantine, was exposed as quite distinct and therefore disconnected from the other selected MSS. MS 1220 did not reveal significant affinity to the selected MSS to be considered to form a distinct group relationship with any of them. No distinctive lines of descent were revealed in the QAs to suggest that MS 1220 belongs to another specific MS, group, or cluster. On the contrary, the data conclusively suggests that MS 1220 is a mixture of  $\pi^a$ ,  $\pi^b$ ,  $K^x$ , M10, and  $K^r$ . The low disparity (5.8%) that exists between the highest and lowest percentage of agreement with MS 1220 and any of the Byzantine group representatives demonstrates the presence of mixture.

MS 1220 revealed a slightly higher (1.1%) affinity to the  $K^r$  group than the  $K^x$  group representative (MS 045). A more significant revelation was that MS 1220 was 3% closer to the K groups ( $K^r$  and  $K^x$ ) than to any of the other groups, with the exception of the TR. Thus, one may conclude that MS 1220 is either a member of a group not represented in this study or, more likely, has a mixed text with  $\pi^a$ ,  $\pi^b$ ,  $K^x$ , M10, and components.

MS 1222 showed a high level of affinity with the  $K^x$  and K representatives. The highest level of agreement was with the  $K^r$  group, with an average of 89.9% affinity. With only

70.3% agreement, MS 1222 also showed the greatest disparity from MS 10. MS 1222 is, therefore, best described as a K<sup>r</sup> group member.

MS 1202 and MS 1237 showed a consistently higher level of agreement with one another than any other pairing of the selected MSS. The level of affinity between these two MSS as revealed in the text-type QA (95.8%) and the Byzantine QA (93.9%) was sufficiently high to distinguish them as a separate pair. The similar dating, shared location, calligraphy, and similar writing styles of the MSS suggest a close relationship at the production stage. MS 1237 and 1202 may have shared the same exemplar or only be a generation or two removed from each other with 1202 being prior to 1237.

MSS 1202, 1237, and 1458 demonstrated a high degree of affinity with 1194. In almost all of the QAs, MS 1194 is the nearest companion to the 1202 and 1237 pair. The relationship of MS 1194 to MS 10 discussed above and the demonstrated consistent affinity of MSS 1202, 1237, and 1458 with MS 10, indicate the existence of a group closely related to the M10 group.

The results of the QAs suggest the plausibility of a new M group in which MSS 1202 and 1237 serve as core



members and MSS 1194 and 1458 are closely related antecedents. This proposed new group is best described as an inner group of the M10 group. Defining the existence, if any, of this new inner group requires that additional QAs be run which include other M group MSS.

In summary, significant contributions were made to the field of NTTC. The completion of the full collations of the eight MSS benefited the IGNTP, CNTTS, and New Testament textual critics. The multiple QAs performed on the selected MSS demonstrated the value of combining full collations with computer-generated analyses. The detailed textual relationships verified the location of the selected MSS in the textual tradition of the GNT and revealed specific characteristics about individual MSS.

A need exists for further study. The relationship of the K<sup>r</sup>, K<sup>x</sup>, and the M groups needs to be defined with greater precision. The link between MSS 1202 and 1237 needs to be established within a proper schemata of the regional influences and the role of the lectionary. Additional QAs of MS 1194 should be completed in order to determine the proper relationship of the MS to the M group in the other Gospels. The possibility of a new inner group within the M10 group needs to be determined with clarity.

## APPENDIX 1

### FULL COLLATION APPARATUS OF THE SELECTED MANUSCRIPTS

The following pages contain the full collation report for the selected MSS. The report represents the combination of all of the variations of the selected M group MSS from the TR. The MANUSCRIPT computer program was used to generate the report.

0:0-1		το κατα ιωαννην αγιον ευαγγελιον
	1	το κατα ιωαννην ευαγγελιον 1220
	4	ευαγγελιον κατα ιωαννην 1342 1458
	5	ευαγγελιον κατα ιω~ 1222 1242
	8	το κατα ιω~ ευαγγελιον 1237
1:5-10		σκοτια(1)
	1	σκοτεια 1342
1:5-16		σκοτια(2)
	1	σκοτεια 1342
1:5-19		αυτο
	1	αυτω 1242
1:11-7		ηλθε
	1	+ ν 1222 1242 1220 1458
1:17-10		μωσεως
	1	μωυσεως 1220
1:17-13		εδωθη
	1	εδωθη 1220
1:18-13		εωρακε
	2	+ ν 1458
1:18-25		μονογενης
	1	μονογεννης 1342
1:18-37		τον
	1	ΟΜ 1242
1:19-19		απεστειλαν
	2	+ προς αυτον 1242

1:19-25	5	οι ΟΜ 1342
1:20-7	2	ωμολογησε + ν 1222 1220
	3	ομολογησεν 1342
1:20-19	1	ωμολογησεν ομολογησεν 1342
1:26-7	3	απεκριθη απεκρινατο 1194
1:26-10	5	ο ΟΜ 1458
1:26-19	2	εγω + μεν 1220
1:27-46	5	εγω ΟΜ 1242
1:27-58	5	αυτου ΟΜ 1222
1:27-73	2	υποδηματος + εκεινος υμας βαπτιζει εν πνευματι αγιω και πυρι 1222
	3	+ εκεινος υμας βαπτισει εν πνευματι αγιω και πυρι 1458
1:28-10	5	βηθαβαρα βηθανια 1242 1342 1458 1202
1:29-13	2	ο(1) ιωαννης ΟΜ 1220 1194
1:29-16	1	ιησουν ιν- 1194

1:30-7	1	εστι + ν 1222 1342
1:31-16	1	ισραηλ ιη-λ 1194
1:31-25	2	ηλθον εγω ~ 2,1 (εγω ηλθον) 1342
1:31-33	1	εν τω(2) υδατι ΟΜ 1194
1:32-7	2	εμαρτυρησεν + ο 1342
1:32-10	2	ιωαννης ο ιω- 1237
1:32-31	2	ωσει ως 1220 1342
1:32-37	2	εξ εκ του 1237 1202
1:32-40	1	ουρανου ου-νου 1202
1:32-43	1	εμεινεν εμειν 1342
1:38-67	1	μενεις μενης 1222
1:39-16	1	ηλθον + ουν 1220
1:39-40	5	δε ΟΜ 1222 1242 1220 1342 1237 1202 1194

1:40-43	4	αυτω αυτον 1220
1:41-10	2	ευρισκει + ουν 1222 1458
1:41-19		πρωτος 1220*(i/m)
1:41-40	1	μεσσιαν μεσσιαν 1220
1:41-52	2	ο(2) χριστος χριστος 1220 1342
1:42-19	1	ιησουν ις~ 1458
1:42-25	5	δε ΟΜ 1222 1220 1458
1:42-31	1	ιησους ις~ 1458
1:42-37	1	ειπε + ν 1222 1220 1342 1458
1:42-46	1	υιος υς~ 1458
1:43-16	2	ο ιησους ΟΜ 1242 1220 1342 1237 1202
1:43-19	1	ιησους ις~ 1458
1:43-40	1	αυτω + ο ιησους 1222 1220 1342
	1	+ο ις~ 1458

1:44-7	5	ο ΟΜ 1458 1194
1:45-22	1	μωσης μωωσης 1222
1:45-28	5	εν τω νομω ΟΜ 1342
1:45-45	1	ιησουν ιυ~ 1458
1:45-60	1	υιον υυ~ 1458
1:45-63	2	του ΟΜ 1220
1:45-72	1	ναζαρετ ναζαρεθ 1222 1220 1458
1:46-4	5	και(1) ΟΜ 1458
1:46-16	2	ναζαρετ ναζαρεθ 1222 1220 1458
1:48-28	2	ο ιησους ις~ 1222 1242 1237 1194
1:50-10	2	ιησους ο ιησους 1220
	2	ο ις~ 1458
1:50-43	1	μειζω μειζων 1220
	2	μειζονα 1342

2:1-8	2	ημερα επαυριον 1342
2:2-9	2	ο ΟΜ 1458
2:2-10	1	ιησους ις- 1458
2:3-31	1	εχουσι + ν 1222
2:4-19	2	σοι συ 1220
2:5-19	2	αν εαν 1202
2:5-22	1	λεγη λεγει 1202
2:6-10	1	υδριαι λιθιναι ~ 2,1 (λιθιναι υδριαι) 1242
2:8-31	1	και(3) οι δε 1342
2:9-25	1	ηδει ηδη 1342
2:9-55	1	τον των 1342
2:10-7	1	αυτω αυτον 1242
2:11-52	1	εφανερωσε + ν 1222



2:12-3	2	μετα τουτο και 1237 1202
2:12-7	3	τουτο ταυτα 1220
2:12-13	2	κατεβη + ο ιησους 1222
2:12-22	4 13	η μητηρ αυτου(1) και(2) οι(1) αδελφοι αυτου(2) και(3) οι μαθηται η μητηρ αυτου και οι μαθηται αυτου και οι αδελφοι 1194 οι μαθηται αυτου και η μητηρ αυτου και οι αδελφοι αυτου 1220
2:12-25	1	μητηρ μη~ρ 1194
2:15-19	2	σχοινιων σχοινιου 1194
2:15-52	1	εξεχεε + ν 1242
2:15-61	1	ανεστρεψε + ν 1342 1458
2:16-25	2	εντευθεν + και 1237 1202
2:16-46	1	εμποριου εμπορειου 1220
2:17-31	2 3	κατεφαγε κατεφαγεται 1237 1458 καταφαγεται 1220
2:19-13	2	ο ΟΜ 1242 1342 1202 1194

2:19-16	1	ιησους ις~ 1222 1202 1194
2:20-10	2	ουν + αυτω 1220
2:20-22	2	ετρεσιν ειπωσιν 1342
2:20-28	1	ωκοδομηθη οκοδομηθη 1342
2:21-10	1	ελεγε + υ 1342 1458
2:22-25	1	ελεγεν ελεγε 1237
2:22-28	2	αυτοις ΟΜ 1222 1242 1220 1342 1237 1458 1202 1194
2:22-43	1	ιησους ις~ 1458 1202 1194
2:23-10	2	εν(1) + τοις 1222 1220 1342 1458 1242*
2:23-25	5	εν(3) τη εορτη εν(3) τηι εορτη 1458
2:23-46	5	αυτου(2) ΟΜ 1222
2:24-7	1	ο ιησους ο ις~ 1458
	2	+ου 1342

2:24-10	2	επιστευεν επιστευσεν 1220
2:24-13	2	εαυτον αυτον 1458
2:24-22	2	αυτον OM 1242
2:24-31	2	παντας παντα 1458
2:25-22	1	μαρτυρηση μαρτυρησει 1222
2:25-34	1	εγινωσκε + ν 1222 1220
3:2-7	1	ηλθε + ν 1222
3:2-13	2	τον ιησουν αυτον 1220 1342
3:2-43	3	ταυτα τα σημεια δυναται - 4,1,2,3 (δυναται ταυτα τα σημεια) 1242 1220 1237 1202
3:2-76		η 1220*
3:3-7	2	ο ιησους ιησους 1220
	2	ις~ 1202
3:3-19	2	σοι OM 1342
3:4-13	5	ο OM 1342 1202

3:5-7	5	ο ΟΜ 1222 1242 1458 1202 1194
3:5-10	1	ιησους ις~ 1237 1458 1202 1194
3:5-13	2	ιησους + και ειπεν αυτω 1220 1237 1202 1194
3:5-52	1	εισελθειν εις ιδειν 1220
3:6-22	1	εστι(2) + ν 1220
3:8-46	2	εστι + ν 1342
3:8-50	2	πας ΟΜ 1342
3:10-10	2	ο(1) ιησους ιησους 1220 1342
	2	ις~ 1222 1242 1237 1458 1202 1194
3:10-16	1	ισραηλ ιη~λ 1194
3:12-3	2	3:12 ει . . . πιστευετε ΟΜ 1194
3:12-16	3	ου πιστευετε ουκε πιστευσατε 1458
3:12-31	5	υμιν(2) ΟΜ 1458

3:12-37	1	πιστευσετε πιστευσεται 1220
3:14-10	1	μωσης μωυσης 1220
3:15-19	2	αποληται απωληται 1242
3:15-22	2	εχη εχει 1220 1342
3:16-7	1	ουτω ουτως 1222 1242 1220 1458
3:16-13	1	θεος θς~ 1458 1202
3:16-58	2	αποληται απωληται 1242
3:16-64	2	εχη εχει 1220 1342
3:17-31	1	κρινη κρινει 1342
3:17-37	2	σωθη ο(2) κοσμος δι αυτου(2) σωση του κοσμου 1342 1458
3:19-31	2	οι ανθρωποι μαλλον μαλλον οι ανθρωποι 1242
3:19-34	1	ανθρωποι αν~οι 1194
3:19-46	2	πονηρα αυτων ~ 2,1 (αυτων πονηρα) 1220

3:19-47 2 αυτων τα εργα  
~2,3,1 (τα εργα αυτων)  
1194

3:20-4 2 γαρ  
OM  
1220

3:20-22 2 και ουκ ερχεται προς το(2) φως(2)  
OM  
1242

3:20-44 2 αυτου.  
+ οτι πονηρα εστιν  
1220 1237 1202  
2 + οτι πονηρα εστι  
1194

3:21-28 2 αυτου τα εργα  
~ 2,3,1 (τα εργα αυτου)  
1242

3:22-4 1 μετα  
+ δε  
1220

3:22-34 1 διετριβε  
+ υ  
1220

3:23-4 2 και(1)  
OM  
1458

3:23-25 2 σαλειμ  
σαλημ  
1220

3:24-19 2 την  
1242\*  
OM  
1458 1202 1194

3:25-31 2 ιουδαιων  
ιουδαιου  
1242 1220

3:26-7 5 τον  
OM  
1242

3:26-18	2	ος ην μετα σου περαν του ιορδανου OM 1202
3:27-7	1	ιωαννης ιω- 1242
	2	ο ιωαννης 1220
3:27-13	1	ανθρωπος αν-ος 1242
3:27-16	4	λαμβανειν + αφ εαυτου 1242 1220
3:28-10	5	μοι OM 1222 1220 1342 1237 1458 1194
3:29-34	1	φωνην χαραν 1342
3:30-19	1	ελαττουσθαι ελαττουσθαι 1222
3:31-19		ο(2) ων εκ(1) της(1) γης(1) ... επανω(2) παντων(2) εστι 1242*
3:31-40	1	εστι(1) + υ 1342
3:31-73	1	εστι(2) + υ 1222 1342
3:32-10	1	εωρακε + υ 1222 1220
3:32-16	1	ηκουσε + υ 1222 1220
3:33-25	2	εστιν OM 1342

3:34-1	1	ον τον 1242
3:36-16	1	υιον + του θεου 1342
3:36-36	2	τω υιω τον υιον 1202
3:36-46	2	οψεται + την 1342 1194
3:36-48	2	ζων(2) την ζων 1458
4:1-7	1	ο κυριος ο κς~ 1458 1194
4:1-19	1	ιησους ις~ 1458 1194
4:1-31	5	και βαπτιζει OM 1458 1194
4:3-4	2	αφηκε + υ 1222 1458
4:3-13	2	ιουδαιαν + γην 1242
4:3-19	2	απηλθε + υ 1222 1458 1194
4:3-22	5	παλιν OM 1222 1342 1458 1194
4:5-13	2	ουν + ο ιησους 1222
	2	+ ο ις~ 1458 1194



4:5-55	2	ο ου 1220 1202
4:5-67	10	ιωσηφ τω υιω αυτου ~ 2,3,4,1 (τω υιω αυτου ιωσηφ) 1242
4:6-10	3	ουν ΟΜ 1342
4:8-25	2	αγορασωσι + υ 1242 1342
4:9-7	5	ουν ΟΜ 1237
4:10-10	1	ιησους ις~ 1194
4:10-25	1	θεου θυ~ 1194
4:10-61	2	αυτον αυτω 1242
4:10-76	1	ζων ζον 1194
4:11-16	2	γυνη + η σαμαρειτις 1220
4:11-61	1	ζων ζον 1194
4:12-10	1	μειζων μειζον 1242
4:12-16	1	πατρος πρ-ς 1242 1458

4:12-34	2	εδωκεν δεδωκεν 1220
4:12-55	2	επιε + ν 1222 1242 1220 1342 1458
4:12-61	2	οι ΟΜ 1242 1220
4:13-10	2	ο(1) ιησους ιησους 1220
	2	ις~ 1222 1237 1458 1194
4:14-10	2	πιη πιει 1242 1342
4:14-46	2	ο + εγω 1242 1220
4:14-61	2	εν ΟΜ 1458
4:14-70	1	αλλομενου απλλομενους 1242
4:15-4	2	λεγει απεκριθη 1237 1202
4:15-22		τουτο 1242*
4:15-34	2	ερχωμαι ερχομαι 1242
4:16-7	1	ο ιησους ο ις~ 1458
4:16-16	2	τον ανδρα σου - 3,1,2 (σου τον ανδρα) 1222 1458

4:17-4	2	απεκριθη και απεκριθη 1202
4:17-10	2	ειπεν + αυτω 1222 1242 1342 1458 1194
4:18-22	2	εστι + ν 1220
4:20-10	2	τουτω τω ορει ~ 2,3,1 (τω ορει τουτω) 1242 1220 1342 1237 1458 1194
	2	~ 2,3,1 (τω ορει τουτο) 1222
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9:17-43	1 3	ηνοιξε + ν 1458 ηνεωξε 1242
9:19-49	1	αρτι βλεπει αρτη βλεπει 1220
9:20-10	2	απεκριθησαν + δε 1222 1342 1458 1194
9:20-16	5	αυτοις ΟΜ 1242
9:21-28	1	ηνοιξεν ηνεωξεν 1242
9:21-37	6	αυτος(1) ηλικιαν εχει αυτον ερωτησατε αυτος(2) αυτον ερωτησατε αυτος ηλικιαν εχει αυτος 1242
9:21-52	2	αυτος(2) + τα 1458 1202 1194
9:21-58	2	αυτου(2) εαυτου 1194

9:22-19	1	συνετεθειντο συνετεθηντο 1242
9:22-40	2	τις τι 1222*
9:24-13	2	εκ δευτερου του ανθρωπου του ανθρωπου εκ δευτερου 1242
9:24-49	3	ο ανθρωπος ουτος ~ 3,1,2 (ουτος ο ανθρωπος) 1242
9:25-10	5	ουν ΟΜ 1202
9:25-19	5	και ειπεν 1242c ΟΜ 1220
9:26-7	2	δε ουν 1220 1194
9:26-19	1	εποιησε + υ 1222 1220 1458
9:26-28	1	ηνοιξε + υ 1222 1458
	12	ανεωξε 1220
	12	ανεωξεν 1242
9:27-34	2	ηκουσατε επιστευσατε 1220
9:27-48	1	θελετε ακουειν ακουειν θελετε 1242
9:27-61	2	αυτου μαθηται ~ 2,1 (μαθηται αυτου) 1242 1342 1458

9:28-10	5	ο υ ν Ο Μ 1222 1242 1220 1342 1237 1458 1202 1194
9:28-34	3	μ ω σ ε ω ς μ ω υ σ ε ω ς 1220
9:29-13	1	μ ω σ η μ ω σ ε ι 1242 1342 1202 1194
	2	μ ω υ σ ε ι 1220
9:30-13	1	α ν θ ρ ω π ο ς α ν - ο ς 1458 1202
9:30-49	1	α ν ε ω ξ ε α ν ε ω ξ ε ν 1222 1458
9:31-16	1	α μ α ρ τ ω λ ω ν α μ α ρ τ ω λ ο ν 1242 1194
9:31-25	1	θ ε ο ς θ ς ~ 1458 1194
9:31-32		α λ λ . . . α κ ο υ ε ι 1220*(i/m)
9:32-16	1	η ν ο ι ξ ε η ν ο ι ξ ε ν 1222 1458
	2	η ν ε ω ξ ε ν 1242
9:33-22	1	θ ε ο υ θ υ ~ 1458 1202 1194
9:33-25	7	η δ υ ν α τ ο ε δ υ ν α τ ο 1194
9:34-28	1	ο λ ο ς ο λ ω ς 1202

9:35-4 5 ηκουσεν ο ιησους οτι εξεβαλον αυτον(1) εξω  
OM  
1237

9:35-7 4 ηκουσεν  
ηκουσεν ουν  
1220

9:36-16 3 και ειπε τις εστι κυριε  
και ειπεν και τις εστιν κυριε  
1342

9:36-19 1 ειπε  
+ ν  
1220 1458

9:36-22 2 ειπε  
+ και  
1242 1220 1194  
2 ειπεν και  
1222

9:36-25 1 εστι  
+ ν  
1220

9:36-28 1 κυριε  
κε~  
1458 1194

9:37-7 1 ειπε  
+ ν  
1220 1458

9:37-16 1 ιησους  
ις~  
1458 1194

9:39-46 1 βλεπωσι  
+ ν  
1342

9:39-55 1 γενωνται  
γεγονται  
1220

9:40-13 ταυτα  
1220\*(i/m)

9:41-28 5 αν  
OM  
1220



9:41-46	1	η ουν ει ουν 1222
10:1-49		εκεινος 1242c
10:1-55	2	εστι + ν 1220
10:4-22	1	εκβαλη εκβαλλη 1202
	2	εκβαλει 1220
10:4-49	2	οτι και 1342
10:4-52	2	οιδασι οιδεν 1458
10:4-58	2	την φωνην αυτου - 3,1,2 (αυτου την φωνην) 1220
10:4-64	2	αυτου αυτων 1342
10:6-22	1	ο ιησους ο ις- 1194
10:6-37	2	εγνωσαν εγνωσκον 1242
10:6-46	3	ην ΟΜ 1242
10:6-52	2	α ΟΜ 1242
10:7-13	3	παλιν αυτοις αυτοις 1220

10:7-22	1	ο ιησους ο ις~ 1458 1202 1194
10:7-40	2	οτι ΟΜ 1222 1237 1202 1194
10:8-13	2	προ εμου ηλθον ηλθον προ εμου 1220 1237 1458 1202 1194
10:8-16	2	προ εμου ΟΜ 1222 1242
10:8-25	2	εισι ησαν 1237 1458 1202 1194
10:12-25	4	εισι εστιν 1220
10:12-46	2	γα(2) προβατα(2) ΟΜ 1220
10:13-28	2	εστι + ν 1222 1220
10:13-31	2	μελει μελλει 1220
10:15-4	2	καθως και καθως 1220
10:16-13	2	α ΟΜ 1202
10:16-43	1	ακουσουσι + ν 1220
10:17-0	15	λα[βω αυτην] 1202

10:17-7	2	ο πατηρ με αγαπα ~ 3,4,1,2 (με αγαπα ο πατηρ) 1220
10:17-10	2	ο πατηρ με με ο πατηρ 1242
	2	με ο πατηρ~ 1194
10:17-43	3	ινα παλιν λαβω αυτην υπερ των προβατων και παλιν λαμβανω αυτην 1220
10:21-7	2	αλλοι + δε 1242
10:21-25	2	εστι + ν 1342
10:21-40	3	τυφλων οφθαλμους οφθαλμους τυφλων 1220
	4	οφθαλμους τυφλου 1242
10:22-28	2	τοις ΟΜ 1220 1342 1237 1458 1194
10:23-10	1	ιησους ις~ 1458 1194
10:23-28	2	του ΟΜ 1242 1220 1342 1458
10:23-31	2	σολομωντος σολομωνος 1194
10:24-58	1	χριστος χς~ 1458 1194
10:25-25	1	ιησους ις~ 1458 1194

10:25-40	2	ου πιστευετε ουκ επιστευσατε 1458 1194
10:26-4	2	αλλ αλλα 1220
10:28-10	2	ζων αιωνιον διδωμι αυτοις διδωμι αυτοις ζων αιωνιον 1242
10:28-46	2	της χειρας των χειρων 1342
10:29-4	2	ο οτι ο 1220
10:29-7	1	πατηρ πη~ρ 1458
10:29-19	1	δεδωκε + ν 1458
10:29-22	2	μοι + αυτα 1220
10:29-34	2	εστι + ν 1220 1342
10:29-46	4	αρπαζειν αρπασε 1242
10:29-49	2	αρπαζειν + αυτα 1220
10:30-4	1	πατηρ πη~ρ 1458
10:30-7	2	πατηρ + μου 1458

10:31-10	4	παλιν λιθους οι ιουδαιοι ~ 3,4,1,2 (οι ιουδαιοι παλιν λιθους) 1242
10:31-16	3	λιθους OM 1237
10:32-13	1	ιησους ις- 1458 1202 1194
10:32-19	2	καλα εργα εδειξα υμιν εργα εδειξα υμιν καλα 1242
10:32-22	2	καλα εργα ~ 2,1 (εργα καλα) 1220
10:32-37	1	πατρος πρ-ς 1458 1202 1194
10:32-55	5	αυτων εργων εργων αυτων 1237 1458 1202 1194
10:32-73	2	με εμε 1242
10:33-16	2	λεγοντες OM 1242 1220
10:33-31	4	οτι οτε 1202
10:33-37	1	ανθρωπος αν-ος 1202
10:33-46	2	σεαυτον εαυτον 1242
10:34-7	2	ο ιησους ις- 1202

10:34-13	2	εστι + ν 1220 1342
10:34-30	2	νομω + μωσεως 1202
10:34-40	2	ειπα ειπον 1222
	2	+ν 1220
10:35-13	2	ειπε + ν 1220 1458
10:35-34	1	θεου θυ~ 1458
10:35-43	2	λυθηναι καταλυθηναι 1220
10:36-16	1	ηγιασε + ν 1458
10:36-70	2	του ΟΜ 1220
10:38-34	2	ινα γνωτε και πιστευσητε ΟΜ 1342
10:38-67	1	πατηρ πη-ρ 1458
10:38-73	2	καγω και εγω 1458
10:39-13	5	ουν ΟΜ 1342

10:39-19	2	παλιν αυτον ~ 2,1 (αυτον παλιν) 1242 1220 1458
10:40-7	1	απηλθε + υ 1222 1458
10:40-10	2	παλιν OM 1237 1202 1194
10:40-19	2	εις τον τοπον OM 1237
10:40-25	2	τον OM 1222 1242
10:41-19	2	ιωαννης(1) ιω~ 1242
10:41-28	2	σημειον εποιησεν εποιησε σημειον 1242
10:41-61	1	ειπεν ειπε 1194
10:41-67	2	ιωαννης(2) OM 1194
10:42-7	2	επιστευσαν πολλοι πολλοι επιστευσαν 1220
	2	πολλοι επιστευσον 1242
10:42-22	2	εκει εις αυτον ~ 2,3,1 (εις αυτον εκει) 1242 1220
11:2-13	1	κυριον κν~ 1242

11:2-16	1	μυρω μυρον 1242
11:2-19	1	εκμαξασα απομαξασα 1242
11:3-19	2	αδελφαι + αυτου 1220
11:3-22	3	προς αυτον αυτου 1458
11:3-28	1	κυριε κε- 1458
11:5-13	1	ιησους ις- 1458
11:7-13	2	τοις μαθηταις τοις μαθηταις αυτου 1342
11:8-2	1	αυτω OM 1242
11:8-4	1	μαθηται + αυτου 1220
11:8-13	2	λιθασαι οι(2) ιουδαιοι οι ιουδαιοι λιθασαι 1242 1342
11:9-7	2	ο ιησους ις- 1222 1458 1202 1194
11:9-22	2	εισιν ωραι ωραι εισιν 1342
	2	ωραι εισι 1222 1220



11:9-37	1	περιπατη περιπατει 1222 1242
	1	περιπατει]περιπατη 1220*
11:9-44	2	οτι ΟΜ 1194
11:10-7	1	περιπατη περιπατει 1242 1342
11:10-25	2	φως +του κοσμου 1220
11:11-7	1	ειπε + ν 1222 1220 1458
11:12-13	2	οι μαθηται αυτου οι μαθηται αυτω 1202 1194
11:12-16	1	κυριε κε~ 1202 1194
11:13-13	1	ο ιησους ο ις~ 1194
11:14-16	2	ο ιησους παρρησια ~ 3,1,2 (παρρησια ο ιησους) 1242
11:14-19	2	ο ιησους ις~ 1458
11:14-31	1	απεθανε + ν 1220 1458
11:17-10	1	ιησους ις~ 1237 1202 1194

11:17-13	2	ιησους + εις βηθανιαν 1220 1237 1202
11:17-34	2	ηδη εχοντα εχοντα ηδη 1222
11:19-4	2	και (1) πολλοι πολλοι δε 1242
11:19-16	2	εληλυθεισαν εληλυθησαν 1220 1342
11:20-4	1	η ει 1222
11:20-16	2	ο ιησους ις~ 1222 1242 1237 1458 1202 1194
11:21-7	5	η OM 1222
11:21-22	5	ο αδελφος μου ουκ αν ετεβνηκει ουκ αν απεθανεν ο αδελφος μου 1242
11:24-10	2	μαρθα η μαρθα 1242
11:25-7	2	ειπεν ειπε δε 1237
	4	+ ουν 1458 1194
11:25-10	1	ιησους ις~ 1458 1194
11:25-24	2	ο (2) πιστευων εις εμε καν αποθανη ζησεται OM 1194

11:25-31	2	καν αποθανη ζησεται 26 και(1) ... εις(1) εμε OM 1458
11:27-16	1	κυριε κε- 1458
11:27-28	1	ο(1) χριστος ο χς- 1458
11:27-34	1	θεου θυ- 1458
11:27-37	2	θεου + του ζωντος 1458
11:30-16	1	εληλυθει εληλυθη 1342
11:31-4	2	ουν + οι 1242
11:31-10	2	οι(2) OM 1342
11:31-46	1	αυτη αυτην 1242
11:31-49	2	λεγοντες δοξαντος 1242
11:31-67	1	κλαυση κλαυσει 1202
11:32-4	1	η ει 1222
11:32-22	5	ο(1) OM 1194

11:32-25 1 ιησους  
 ις~  
 1242 1237 1458 1202 1194

11:32-43 11 εις τους ποδας αυτου  
 αυτου εις τους ποδας  
 1222 1220 1237 1458 1202

11:32-46 1 εις  
 παρα  
 1242

11:32-49 1 αυτου  
 του ιυ~  
 1242

11:32-58 1 κυριε  
 κε~  
 1458

11:32-76 1 απεθανε  
 + υ  
 1222 1242 1220

11:33-4 1 ιησους  
 ις~  
 1458  
 2 αυτου  
 1242

11:34-3 2 και(1) ειπε που τεθεικατε αυτον  
 ΟΜ  
 1202

11:34-7 1 ειπε  
 + υ  
 1222 1220 1458

11:34-10 1 τεθεικατε  
 τεθηκατε  
 1242

11:34-16 1 κυριε  
 κε~  
 1458 1202

11:35-13 1 ιησους  
 ις~  
 1458

11:36-22	1	εφιλει εφιλη 1242
11:38-4	1	ιησους ις~ 1194
	4	ΟΜ 1194
11:39-10	1	ιησους ις~ 1194
11:39-31	1	κυριε κε~ 1194
11:39-46	1	εστι + ν 1242 1220
11:40-13	1	ιησους ις~ 1202 1194
11:40-19	3	πιστευσης πιστευεις 1202
11:40-22	1	οψει οψη 1220
11:40-28	1	θεου θυ~ 1194
11:41-19		ο(1) τεθυηκως κειμενος 1220*(i/m)
11:41-43	1	ιησους ις~ 1242 1458
11:41-46	1	ηρε + ν 1222 1220 1458
11:41-52	2	ανω + εις ο ανων~ 1242

11:41-52	2	ανω αυτου εις του ουρανου 1220
11:41-55	1	ειπε + ν 1222 1242 1342 1458
11:41-58	1	πατερ πε~ρ 1458
11:42-31	1	περιστωτα περιστωταν 1242
11:43-3	2	ταυτα τουτο 1237
11:43-13	1	εκραυγασε + ν 1222 1242 1342 1458
11:44-13	2	δεδεμενος τους ποδας και(2) τας χειρας δεδεμενος τας χειρας και τους ποδας 1237 1202 1194
11:44-52	1	ο(2) ιησους ο ις~ 1194
11:45-10		των ιουδαιων 1220*(i/m)
11:45-40	1	ο ιησους ο ις~ 1194
11:46-46	1	ιησους ις~ 1194
11:47-5	2	ουν ΟΜ 1237
11:47-40	2	ουτος ο ανθρωπος ο ανος~ ουτος 1237 1194

11:48-10 1 ουτω  
ουτως  
1222 1242 1220 1342 1237 1458 1202 1194

11:48-12 2 παντες πιστευουσιν εις αυτον(2) και(1)  
OM  
1194

11:48-16 3 πιστευουσιν  
πιστευσωσιν  
1220

11:49-10 1 αυτων  
+ ονοματι  
1242

11:51-34 2 εμελλεν  
ημελλεν  
1242

11:51-40 2 ο  
OM  
1220 1342 1237 1458 1202

11:51-43 1 ιησους  
ις~  
1237 1458 1202 1194

11:54-7 1 ιησους  
ις~  
1194

11:54-37 2 την  
OM  
1242

11:54-52 1 πολιν  
πολην  
1242c

11:54-55 2 κακει  
και εκει  
1242 1194

11:55-34 3 προ του πασχα(2)  
OM  
1222

11:56-13 1 ιησουν  
ιν~  
1242

11:56-28	2	εν τω ιερω εστηκότες εστηκότες εν τω ιερω 1242
11:57-4	1	δεδωκεισαν δεδωκησαν 1220
	5	εδεδωκεισαν 1242
11:57-7	2	και(1) OM 1220 1237 1202 1194
11:57-37	1	εστι + υ 1222 1342
12:1-13	1	ιησους ις~ 1194
12:1-43	1	τεθνηκως τεθνηκος 1342
12:1-61	3	νεκρων + ο ιησους 1220
12:2-16	2	δειπνον εκει εκει δειπνον 1242
12:2-52	5	συνανακειμενων συνανακειμενων συν 1220
12:2-55	2	αυτω(2) OM 1194
12:3-7	2	η(1) ει 1222
12:3-22	1	ναρδου OM 1194



12:3-34	4	ηλειψε ειλειψεν 1222
12:3-40	1	ιησου ιυ~ 1242
12:3-49	3	εξεμαξε ταις θριξιν αυτης ταις θριξιν αυτης απεμαξεν 1242
12:3-67	2	τους(2) ποδας(2) αυτου αυτου τους ποδας 1242
12:3-85	2	εκ ΟΜ 1237
12:5-34	2	εδοθη + τοις 1220
12:6-7	1	ειπε + υ 1222
12:6-28	2	εμελεν εμελλεν 1242
12:6-52	1	ειχε + υ 1222 1220
12:7-28	1	αυτο αυτω 1342
12:9-22	1	εστι + υ 1222 1242 1342
12:12-19	2	ο(1) ΟΜ 1458
12:12-40	2	ο(2) ΟΜ 1220 1342 1237 1458 1202 1194

12:12-43	1	ιησους ις~ 1237 1458 1202 1194
12:13-40	6	εκραζον εκραυγαζον λεγοντες 1220
12:13-61	1	κυριου κυ~ 1458 1194
12:13-70	10	ο(2) 1458 ΟΜ 1222 1194
12:13-73	1	ισραηλ ιη~λ 1458 1194
12:14-7	1	ο ιησους ο ις~ 1458 1194
12:14-10	1	εκαθισεν εκαθησεν 1342
12:14-16	2	αυτο αυτω 1237
12:16-28	1	οτε οταν 1237 1458 1202 1194
12:16-34	1	ιησους ις~ 1237 1458 1202 1194
12:18-7	2	και υπημνησεν αυτω υπημνησεν αυτω 1458
12:18-13	5	και ΟΜ 1220 1194
12:18-31	2	ηκουσε ηκουσαν 1222 1242 1237 1194

12:19-4	1	ουν οιδε 1194
	2	δε 1222 1237 1458 1202
12:19-16	2	εαυτους αυτους 1458
12:20-4	2	δε + και 1242
12:20-7	2	τινες ελληνες - 2,1 (ελληνες τινες) 1242
12:20-22	1	αναβαινουτων + εις ιεροσολυμα 1220 1237
12:21-28	4	βηθσαιδα βηθσαιδαν 1220
12:22-31	2	φιλιππος(2) + και 1220
12:22-34	3	λεγουσι ΟΜ 1458
12:22-40	1	ιησου ιυ~ 1458
12:23-4	1	ιησους ις~ 1458
12:23-7	3	απεκρινατο απεκριθη 1242
12:23-10	2	αυτοις λεγων λεγων αυτοις 1242

12:23-22	1	υιος υς- 1458
12:23-25	1	ανθρωπου αν-ου 1458
12:24-10	1	υμιν + οτι 1242
12:24-31	1	αποθανη(1) αποθανει 1342
12:24-43	1	αποθανη(2) αποθανει 1342
12:24-47	2	πολυν καρπον -2,1 (καρπον πολυν) 1220
12:26-7	2 11	τις εμη διακονη εμοι τις διακονη 1220 τις εμοι διακονη 1242
12:26-13	1	διακονη(1) διακονει 1342
12:26-25	2	ειμι εγω ~ 2,1 (εγω ειμι) 1242
12:26-43	3	και(3) εαν(2) εαν 1242 1237
12:26-55	1	τιμησει τιμηση 1242
12:28-4	1	πατερ πε-ρ 1458

12:28-28	1	του ουρανου των ουρανων 1222
	2	των ου~νων 1458
12:29-13	5	εστως και εστηκως 1242
12:29-28	1	ελεγε + ν 1222 1220 1342 1458
12:29-40	1	γεγονεναι γεγονενε 1242
12:30-13	1	ο ΟΜ 1222 1220 1237 1202 1194
12:30-16	1	ιησους ις~ 1242 1237 1202 1194
12:30-28	2	αυτη η φωνη ~ 2,3,1 (η φωνη αυτη) 1242 1194
12:30-34		γεγονεν 1242c
12:31-19	5	τουτου(1) ΟΜ 1458 1194
12:33-7	1	ελεγε + ν 1222 1220
12:33-19	2	ημελλεν εμελλεν 1458
12:34-22	1	χριστος χς~ 1242 1458 1194
12:34-25	2	μενει εις τον(1) αιωνα εις τον αιωνα μενει 1242

12:34-49 2 οτι(2)  
ΟΜ  
1222 1342 1458 1194

12:34-54 1 δει υψωθηναι  
υψωθηναι δει  
1242

12:34-61 1 ανθρωπου(1)  
αν~ου  
1458 1194

12:34-64 1 τις εστιν ουτος ο(3) υιος του(3) ανθρωπου(2)  
1458c(i/m)  
ΟΜ  
1458\*

12:34-82 5 ουτος  
ΟΜ  
1220

12:34-88 1 ανθρωπου(2)  
αν~ου  
1194

12:35-13 1 ο(1) ιησους  
ο ις~  
1458  
2 ις~  
1202

12:35-16 1 μικρον χρονον  
χρονον μικρον  
1242

12:35-28 2 μεθ υμων  
εν υμιν  
1220

12:35-55 1 σκοτια(1)  
σκοτεια  
1242

12:35-64 1 σκοτια(2)  
σκοτεια  
1242

12:35-67 1 οιδε  
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18:39-28	2	υμιν(2) απολυσω(1) ~ 2,1 (απολυσω υμιν) 1242 1342
18:40-10	2	παλιν ΟΜ 1202
19:1-10	2	πιλατος ο πιλατος 1220c(i/m)
19:1-16	1	εμαστιγωσε + ν 1222
19:2-1	2	και(1) + ηρχοντο προς αυτον και 1342
	1	+ αυ 1222
	1	την κεφαλην αυτου 1242
19:2-37	2	αυτον αυτω 1458
19:3-4	1	και(1) + ηρχοντο προς αυτον και 1220
19:4-4	5	εξηλθεν ουν εξηλθε 1220 1342 1202
19:4-13	5	εξω(1) ΟΜ 1242 1220
19:4-19	2	λεγει ειπεν 1242

- 19:4-31            υμιν αυτον  
2    ~ 2,1 (αυτον υμιν)  
          1458
- 19:5-7            ο(1) ιησους εξω  
2    ~ 3,1,2 (εξω ο ιησους)  
          1220 1342  
2    εξω ο ις~  
          1237
- 19:6-19            και(1) οι(2) υπηρεται  
          1458c(i/m)  
2    OM  
          1458\*
- 19:6-40            σταυρωσον(2)  
2    + αυτον  
          1242 1220 1342 1458 1202
- 19:7-13            ιουδαιοι  
3    + και ειπον  
          1242
- 19:7-52            υιον του θεου  
1    ~ 3,1 (θεου υιον)  
          1242  
2    θυ~ υιον  
          1222 1458 1194
- 19:7-55            του θεου  
2    θεου  
          1220  
2    θυ~  
          1237 1202
- 19:8-7            ηκουσεν  
1    ηκουσε  
          1342
- 19:8-10            ο πιλατος τουτον τον λογον  
1    ~ 3,4,5,1,2 (τουτον τον λογον ο πιλατος)  
          1242  
4    ο πιλατος τον λογον τουτον  
          1237
- 19:8-16            πιλατος  
2    OM  
          1342
- 19:9-6            εις το πραιτωριον παλιν  
1    παλιν εις το πραιτωριον  
          1242

19:9-31	5	ιησους ΟΜ 1194
19:10-4	5	ουν 1458c(i/m) ΟΜ 1237 1194 1458*
19:11-10	2	απεκριθη + αυτω 1242
19:11-13	2	ο(1) ΟΜ 1222 1220 1237 1458 1202 1194
19:11-16	1	ιησους ις~ 1237 1458 1202 1194
19:12-7	2	τουτου + ουν 1242 1237 1202
19:12-13	2	εζητει ο(1) πιλατος ο πιλατος εζητει 1242
19:12-31	1	αυτον(1) τον εν~ 1237 1458 1202 1194
	1	ΟΜ 1242
19:12-40	1	εκραζον εκραυζον 1237
	3	εκραυγαζον 1242 1220 1194
19:12-43	2	λεγοντες ΟΜ 1458 1194
19:12-76	1	αυτον(2) εαυτον 1242
19:13-10	1	τουτον τον(1) λογον τουτων των λογων 1220

19:13-40	5	του ΟΜ 1220
19:14-13	2 5	δε(2) ην 1342 1237 1202 ΟΜ 1220
19:15-7	3	εκραυγασαν εκραυγαζον 1242 1342
19:15-49	1	εχομεν εχωμεν 1342
19:16-19	15	παρελαβον δε τον ιησουν και απηγαγον οι δε παραλαβοντες αυτον απηγαγον 1242 1237
19:16-28	1	ιησουν ιν~ 1458 1194
19:16-40	2 2	απηγαγον ηγαγον 1220 1458 ηγαγον εις το πραιτωριον 1194
19:16-43	1	απηγαγον + εις το πραιτωριον 1222
19:17-16	2	αυτου εαυτου 1242 1342
19:17-28	2	τον(2) τοπον 1222
19:17-31	3	λεγομενον ΟΜ 1342
19:19-7	1	και(1) ΟΜ 1194

19:19-16	2	εθηκεν επεθηκεν 1220
19:20-22	1	ανεγνωσαν των ιουδαιων των ιουδαιων ανεγνωσαν 1242
19:20-31	2	της πολεως ο(1) τοπος ο τοπος της πολεως 1222 1220 1342 1237 1458 1202 1194
19:20-43	1	ιησους ις- 1194
19:20-52	2	εβραιστι ελληνιστι ρωμαιστι ελληνιστι ρωμαιστι εβραιστι 1194
19:21-33	2	ο βασιλευς ο ις- 1202
19:21-52	1	ειπε + ν 1222
	2	ειπεν οτι 1458
19:22-7	2	πιλατος + και ειπεν 1242
19:23-7	2	οτε ΟΜ 1242
19:24-10	4	αλληλους εαυτους 1242
19:24-24	2	αυτου τουτου 1220
19:24-43	2	η(2) λεγουσα λεγουσα 1220

19:25-34	1	κλωπα κλοπα 1342
19:25-46	1	μαγδαληνη μαγδαλινη 1242
19:26-7	1	ιησους ις- 1458 1202 1194
19:26-16	1	μητερα μη-α 1458 1194
19:26-25	2	παρεστωτα εστωτα 1220
	5	ΟΜ 1202
19:26-37	1	μητρι μη-ι 1458 1202 1194
19:26-46	2	ιδου ιδε 1242 1220 1237 1458 1202 1194
19:26-49	1	υιος υς- 1458
19:27-10	1	μητηρ μη-ρ 1458 1194
19:27-28	2	ωρας ημερας 1222 1242 1458 1194
19:27-34	2	αυτην ο μαθητης ~ 2,3,1 (ο μαθητης αυτην) 1222 1242 1220
19:27-37	2	μαθητης + εκεινος 1342 1458 1202

19:28-7	1	τουτο ταυτα 1202
19:28-10	2	ειδως ο ιησους ιδων ο ις~ 1202 1194
	5	ο ιησους ειδως 1242
19:28-13	3	ειδως ιδων 1458
19:28-16	1	ο ιησους ο ις~ 1237 1458
19:28-28	5	ηδη 1458c OM 1458*
19:28-31	3	τετελεσται τετελεσθαι 1342
19:28-43	2	τελειωθη η γραφη η γραφη τελειωθη 1237
	4	η γραφη πληρωθη 1202
19:28-46	2	τελειωθη OM 1342
19:29-7	2	οξους(1) + μεταχολης 1342
19:29-31	2	οξους(2) + μετα χολης 1220
19:29-37	1	υσωπω υσωπω 1242
	2	υ σωπω 1220



19:30-7	1	ελαβε + υ 1222 1242 1458
19:30-10	2	το(1) οξος ο ιησους ο ιησους το οξος 1242
19:30-19	1	ο ιησους ο ις~ 1458
19:30-22	1	ειπε + υ 1222 1458
19:30-37	1	παρεδωκε + υ 1222
19:31-30	2	εν τω σαββατω OM 1342
19:31-52	5	η OM 1220
19:31-97	2	αρθωσιν αρθωσι 1458
19:34-28	1	ενυξε + υ 1222 1220 1342
19:34-34	2	ευθυς ευθεως 1220 1342
19:35-13	1	μεμαρτυρηκε + υ 1222 1220 1342
19:35-19	2	αυτου εστιν η μαρτυρια εστιν η μαρτυρια αυτου 1237 1202 1194
	2	εστι η μαρτυρια αυτου 1458
	3	εστιν αυτου η μαρτυρια 1222

19:35-31	2	οιδεν ειδεν 1342
19:35-40	2	λεγει + αλλ 1458 1202 1194
19:35-46	2	ινα + και 1242 1220 1202 1194
19:36-6		η 1220c
19:36-25	2	συντριβησεται + απ 1342
19:38-7	5	δε(1) OM 1220 1237 1458 1194
19:38-22	5	ο(1) OM 1222 1242 1220 1194
19:38-28		ο(2) 1220c
19:38-52		κεκρυμμενος 1220c
19:38-97	2	επετρεψεν + αυτον 1342
19:38-118	1	ηρε + υ 1222 1242
19:38-121	4	το(2) σωμα(2) του(3) ιησου(3) αυτον 1242
19:39-10	1	ηλθε + υ 1458
19:39-22	1	προς τον ιησουν νυκτος ωυκτος προς τον υ- 1222 1458 1194

19:39-25 1 τον ιησουν  
τον ιν~  
1202

19:39-46 2 ωσει  
ως  
1220 1342 1202

19:40-13 1 ιησου  
ιν~  
1458  
1 κν~  
1237 1202 1194

19:40-22 2 αυτο  
+ εν  
1242 1237 1458 1202 1194  
2 αυτω εν  
1220

19:40-31 2 αρωματων  
+ και  
1220

19:41-28 2 κηπω  
τοπω  
1458

19:42-40 2 τον ιησουν  
αυτον  
1237 1458 1202 1194

20:1-37 2 σκοτιας  
σκοτια  
1202

20:2-28 2 εφιλει  
εφιλη  
1242  
4 ηγαπα  
1222

20:2-31 1 ιησους  
ις~  
1237 1202

20:2-37 1 κυριον  
κν~  
1237 1202

20:2-43	1	οιδαμεν οιδα 1237 1202
20:3-16	2	εις προς 1194
20:4-28	1	προεδραμε + ν 1222 1242
20:4-43	1	ηλθε + ν 1222
20:5-13	1	οθονια οθωνια 1242
20:6-22	2	σιμων ΟΜ 1194
20:6-28	1	αυτω αυτον 1222
20:6-46	1	οθονια οθωνια 1242
20:8-10	1	εισηλθε + ν 1222
20:8-43	2	ειδε + ν 1220
20:9-7	1	ηδεισαν ηιδεισαν 1458
20:11-19	2	το(1) μνημειον(1) τω μνημειω 1194
	2	το μνημειω 1237

20:11-31	1	εκλαιε + ν 1220
20:12-22	5	τη τηι 1458
20:13-4	1	και(1) OM 1342
20:14-4	2	και(1) ταυτα ταυτα 1342 1202 1194
20:14-19	1	ιησουν ιν~ 1237 1458 1202 1194
20:14-25	1	ηδει ηιδει 1458
20:14-28	5	ο OM 1222 1242 1237 1458 1202 1194
20:14-31	1	ιησους ις~ 1237 1458 1202 1194
20:14-34	1	εστι + ν 1220
20:15-10	1	ο(1) ιησους ο ις~ 1237 1458 1194
	2	ις~ 1202
20:15-43	1	εστι + ν 1220
20:15-49	1	κυριε κε~ 1458 1202

20:15-61	2	αυτον(2) εθηκας ~ 2,1 (εθηκας αυτον) 1222 1242 1220 1342 1237 1458 1202 1194
20:16-7	1	ιησους ις~ 1202
20:16-43	3	διδασκαλε + και προσεδραμεν αφασθαι αυτου 1342
20:17-10	1	ιησους + μαρια στραφεισα εκει μη λεγει 1242
20:17-58	1	αυτοις αυτους 1242
20:18-13	1	μαγδαληνη μαγδαλινη 1220
20:18-16	1	απαγγελουσα απαγγελουσα 1220
20:18-31	1	εωρακε + ν 1220
20:19-7	5	ουν ΟΜ 1242 1220 1202 1194
20:19-31	2	κεκλεισμενων κεκλησμενων 1220
20:19-46	5	συνηγμενοι ΟΜ 1220
20:20-25	1	εχαρησαν εχαρισαν 1242 1220
20:21-19	1	ο(1) ιησους ο ις~ 1458

20:21-28	1	απεσταλκε + ν 1220 1458
20:21-34	1	πατηρ πη~ρ 1458
20:22-13	1	ενεφυσησε + ν 1220
20:23-10	2	αφητε αφειτε 1242
20:23-28	2	κρατητε κρατειτε 1242
20:24-28	2	ην + με 1220
20:25-61	2	τον(3) δακτυλον μου(1) ... ηλων(2) και(2) βαλω(2) ΟΜ 1220
20:26-43	2	κεκλεισμενων κεκλησμενων 1220
20:28-4	5	και(1) ΟΜ 1342
20:28-10	5	ο(1) ΟΜ 1242 1220 1458 1202 1194
20:28-16	1	κυριος κς~ 1458 1202 1194
20:28-22	1	θεος θς~ 1458 1202 1194
20:29-13	1	ιησους ις~ 1237 1458 1202

20:29-22	5	θωμα OM	1242 1220 1237 1458 1202
20:30-16	1	ιησους ις~	1458
20:30-25	5	αυτου OM	1220 1458
20:31-10	5	ο(1) OM	1222 1242 1220 1237 1458 1202 1194
20:31-13	1	ιησους ις~	1237 1458 1202 1194
20:31-22	1	χριστος χς~	1458 1202
20:31-27	1	θεου θυ~	1458 1202
20:31-37	1	εχηγε εχειτε	1220
21:1-4	3	μετα ταυτα OM	1202
21:1-7	1	μετα + δε	1458
21:1-25	5	παλιν OM	1242 1342
21:1-28	1	ο ιησους ο ις~	1237 1194
21:1-34	2	μαθηταις + αυτου	1222 1237 1194
	3	+ αυτου εγερθεις εκ νεκρων	1342



21:1-43	1	εφανερωσε + ν 1220
21:3-15	2	λεγουσιν αυτω ΟΜ 1342
21:3-25	2	ημεις υμεις 1220
21:3-34	6	εξηλθον εξηλθον ουν 1237 1202
21:3-37	2	ανεβησαν ενεβησαν 1222
21:4-10	5	ηδη ΟΜ 1342
21:4-19	2	ο ιησους(1) ις~ 1222
21:4-40	1	οτι + ο 1220
21:4-46	1	εστι + ν 1220
21:5-4	2	λεγει ουν λεγει 1237 1202 1194
21:5-13	1	ο ιησους ο ις~ 1237 1202 1194
21:6-10	3	βαλετε βαλε 1220
21:6-46	1	αυτο αυτω 1242
	2	ΟΜ 1342

21:6-52	1	ελκυσαι + αυτοις 1342
21:7-22	1	εστι(1) + ν 1342
21:7-40	1	εστι(2) + ν 1220
21:7-43	1	επενδυτην επεδυτην 1220
21:9-4	3	απεβησαν επεβησαν 1220
21:11-16	1	ειλκυσε + ν 1220
21:11-25	2	επι της γης επι την γην 1342
21:15-25	5	ο ιησους OM 1237 1202
21:15-43	1	συ σοι 1222
21:16-34	1	κυριε κε~ 1202
21:16-37	1	συ σοι 1222
21:16-40	1	οιδας ειδας 1202
21:16-49	1	αυτω(3) + ο ιησους 1220

21:17-37	2	ειπεν(2) λεγει 1242
21:17-70	2	προβατα αρνια 1220
21:19-13	1	ειπε + ν 1222 1220 1458
21:19-34	2	ρουτο(2) ταυτα 1220
21:20-22	1	ιησους ις~ 1458
21:20-37	1	στηθος στιθος 1220
21:20-43	1	ειπε + ν 1222 1342 1458
21:20-46	2	ειπε +ν 1220
21:21-22	1	ιησου ιυ~ 1458
21:21-25	1	κυριε κε~ 1458
21:23-19	2	αποθνησκει(1) αποθνησκη 1220
21:23-37	1	ο(3) ιησους ΟΜ 1220
	37	.ο.(3) ια~ 1458

21:23-43	2	οτι(2) ΟΜ 1220
21:23-46	2	αποθνησκει(2) αποθνησκη 1220
21:24-0	13	οιδα[μεν οτι αληθης εστιν(2)] 1458
21:24-16	1	τουτων τουτου 1242
21:24-29		αυτου 1458
21:25-0	1	[εστι δε και αλλα] 1458
21:25-7	1	εστι + ν 1220
21:25-15	99	οσα εποιησεν ο ιησους αιτινα οσ[α εποιησεν ο ιησους ατι]να 1458
21:25-24	99	γραφηται καθ εν ουδε αυτον γ[ραφηται καθ εν ουδε αυ]τον 1458
21:25-25	1	γραφηται γραφητε 1342
21:25-34	99	οιμαι τον κοσμον οιμαι[τον κοσμον χωρησαι] 1458
21:25-49	99	γραφομενα γραφομ[ενα βιβλια αμην] 1458

## APPENDIX 2

### CHAPTER QUANTITATIVE ANALYSES FOR GROUPINGS WITH TEXT-TYPE MANUSCRIPTS

This appendix includes the following tables:

1. QA for John 1 with Text-Type MSS (Fractional Agreement)
2. QA for John 1 with Text-Type MSS (Percentile Agreement)
3. QA for John 2 with Text-Type MSS (Fractional Agreement)
4. QA for John 2 with Text-Type MSS (Percentile Agreement)
5. QA for John 3 with Text-Type MSS (Fractional Agreement)
6. QA for John 3 with Text-Type MSS (Percentile Agreement)
7. QA for John 4 with Text-Type MSS (Fractional Agreement)
8. QA for John 4 with Text-Type MSS (Percentile Agreement)
9. QA for John 5 with Text-Type MSS (Fractional Agreement)
10. QA for John 5 with Text-Type MSS (Percentile Agreement)
11. QA for John 6 with Text-Type MSS (Fractional Agreement)
12. QA for John 6 with Text-Type MSS (Percentile Agreement)
13. QA for John 7 with Text-Type MSS (Fractional Agreement)
14. QA for John 7 with Text-Type MSS (Percentile Agreement)
15. QA for John 8 with Text-Type MSS (Fractional Agreement)
16. QA for John 8 with Text-Type MSS (Percentile Agreement)
17. QA for John 9 with Text-Type MSS (Fractional Agreement)
18. QA for John 9 with Text-Type MSS (Percentile Agreement)
19. QA for John 10 with Text-Type MSS (Fractional Agreement)
20. QA for John 10 with Text-Type MSS (Percentile Agreement)
21. QA for John 11 with Text-Type MSS (Fractional Agreement)
22. QA for John 11 with Text-Type MSS (Percentile Agreement)
23. QA for John 12 with Text-Type MSS (Fractional Agreement)
24. QA for John 12 with Text-Type MSS (Percentile Agreement)
25. QA for John 13 with Text-Type MSS (Fractional Agreement)
26. QA for John 13 with Text-Type MSS (Percentile Agreement)

27. QA for John 14 with Text-Type MSS (Fractional Agreement)
28. QA for John 14 with Text-Type MSS (Percentile Agreement)
29. QA for John 15 with Text-Type MSS (Fractional Agreement)
30. QA for John 15 with Text-Type MSS (Percentile Agreement)
31. QA for John 16 with Text-Type MSS (Fractional Agreement)
32. QA for John 16 with Text-Type MSS (Percentile Agreement)
33. QA for John 17 with Text-Type MSS (Fractional Agreement)
34. QA for John 17 with Text-Type MSS (Percentile Agreement)
35. QA for John 18 with Text-Type MSS (Fractional Agreement)
36. QA for John 18 with Text-Type MSS (Percentile Agreement)
37. QA for John 19 with Text-Type MSS (Fractional Agreement)
38. QA for John 19 with Text-Type MSS (Percentile Agreement)
39. QA for John 20 with Text-Type MSS (Fractional Agreement)
40. QA for John 20 with Text-Type MSS (Percentile Agreement)
41. QA for John 21 with Text-Type MSS (Fractional Agreement)
42. QA for John 21 with Text-Type MSS (Percentile Agreement)

A2.1. QA for John 1 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	18/ 18																								
P66s	10/ 18	109/109																							
01s	13/ 18	80/109	109/109																						
P75s	9/ 18	88/109	72/109	109/109																					
03s	8/ 18	86/109	79/109	93/109	109/109																				
04s	7/ 14	65/ 77	55/ 77	61/ 77	62/ 77	77/ 77																			
032s	9/ 18	80/109	72/109	75/109	76/109	58/ 77	109/109																		
038s	9/ 18	70/109	64/109	72/109	71/109	52/ 77	71/109	109/109																	
f1s	10/ 18	71/109	66/109	74/109	68/109	48/ 77	69/109	85/109	109/109																
f13s	9/ 18	66/109	57/109	61/109	60/109	44/ 77	67/109	85/109	74/109	109/109															
565x	9/ 18	70/109	65/109	67/109	69/109	49/ 77	72/109	90/109	79/109	84/109	109/109														
02s	8/ 18	75/109	62/109	75/109	77/109	53/ 77	76/109	89/109	78/109	84/109	88/109	109/109													
041s	9/ 18	74/109	63/109	66/109	68/109	50/ 77	70/109	93/109	86/109	91/109	95/109	92/109	109/109												
045s	8/ 18	71/109	66/109	67/109	65/109	51/ 77	70/109	92/109	89/109	89/109	94/109	87/109	100/109	109/109											
10y	9/ 18	69/109	62/109	67/109	65/109	51/ 77	70/109	88/109	83/109	88/109	95/109	86/109	97/109	100/109	109/109										
157x	9/ 18	72/109	61/109	70/109	68/109	53/ 77	72/109	87/109	80/109	87/109	91/109	92/109	95/109	94/109	93/109	109/109									
1194f	10/ 18	72/109	64/109	70/109	67/109	50/ 77	71/109	91/109	88/109	88/109	96/109	86/109	97/109	102/109	104/109	93/109	109/109								
1202f	10/ 18	70/109	66/109	70/109	67/109	49/ 77	69/109	93/109	90/109	89/109	96/109	88/109	97/109	102/109	99/109	95/109	101/109	109/109							
1220x	9/ 18	70/109	62/109	66/109	66/109	49/ 77	68/109	87/109	78/109	90/109	92/109	87/109	94/109	93/109	90/109	90/109	91/109	93/109	109/109						
1222x	9/ 18	72/109	60/109	65/109	65/109	48/ 77	67/109	86/109	83/109	88/109	94/109	87/109	98/109	100/109	97/109	94/109	99/109	100/109	93/109	109/109					
1237f	9/ 18	71/109	63/109	68/109	66/109	47/ 77	68/109	89/109	88/109	90/109	95/109	87/109	98/109	101/109	98/109	94/109	101/109	105/109	92/109	101/109	109/109				
1242y	8/ 18	70/109	62/109	68/109	68/109	52/ 77	69/109	88/109	83/109	88/109	96/109	87/109	96/109	100/109	99/109	94/109	99/109	102/109	89/109	100/109	101/109	109/109			
1342y	9/ 18	70/109	63/109	67/109	66/109	52/ 77	69/109	91/109	82/109	90/109	95/109	88/109	95/109	98/109	95/109	93/109	95/109	101/109	95/109	98/109	100/109	98/109	109/109		
1458f	9/ 18	65/109	64/109	61/109	61/109	50/ 77	67/109	86/109	81/109	87/109	92/109	85/109	94/109	99/109	96/109	92/109	96/109	98/109	91/109	99/109	95/109	96/109	96/109	109/109	
TR	10/ 18	70/109	64/109	68/109	65/109	50/ 77	69/109	93/109	90/109	90/109	94/109	86/109	99/109	106/109	99/109	93/109	103/109	105/109	93/109	101/109	103/109	101/109	99/109	100/109	109/109

A2.2. QA for John 1 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	55.6	100.0																							
01s	72.2	73.4	100.0																						
P75s	50.0	80.7	66.1	100.0																					
03s	44.4	78.9	72.5	85.3	100.0																				
04s	50.0	84.4	71.4	79.2	80.5	100.0																			
032s	50.0	73.4	66.1	68.8	69.7	75.3	100.0																		
038s	50.0	64.2	58.7	66.1	65.1	67.5	65.1	100.0																	
f1s	55.6	65.1	60.6	67.9	62.4	62.3	63.3	78.0	100.0																
f13s	50.0	60.6	52.3	56.0	55.0	57.1	61.5	78.0	67.9	100.0															
565x	50.0	64.2	59.6	61.5	63.3	63.6	66.1	82.6	72.5	77.1	100.0														
02s	44.4	68.8	56.9	68.8	70.6	68.8	69.7	81.7	71.6	77.1	80.7	100.0													
041s	50.0	67.9	57.8	60.6	62.4	64.9	64.2	85.3	78.9	83.5	87.2	84.4	100.0												
045s	44.4	65.1	60.6	61.5	59.6	66.2	64.2	84.4	81.7	81.7	86.2	79.8	91.7	100.0											
10y	50.0	63.3	56.9	61.5	59.6	66.2	64.2	80.7	76.1	80.7	87.2	78.9	89.0	91.7	100.0										
157x	50.0	66.1	56.0	64.2	62.4	68.8	66.1	79.8	73.4	79.8	83.5	84.4	87.2	86.2	85.3	100.0									
1194f	55.6	66.1	58.7	64.2	61.5	64.9	65.1	83.5	80.7	80.7	88.1	78.9	89.0	93.6	95.4	85.3	100.0								
1202f	55.6	64.2	60.6	64.2	61.5	63.6	63.3	83.5	82.6	81.7	88.1	80.7	89.0	93.6	90.8	87.2	100.0								
1220x	50.0	64.2	56.9	60.6	60.6	63.6	62.4	79.8	71.6	82.6	84.4	79.8	86.2	85.3	82.6	82.6	83.5	85.3	100.0						
1222x	50.0	66.1	55.0	59.6	59.6	62.3	61.5	78.9	76.1	80.7	86.2	79.8	89.9	91.7	89.0	86.2	90.8	91.7	85.3	100.0					
1237f	50.0	65.1	57.8	62.4	60.6	61.0	62.4	81.7	80.7	82.6	87.2	79.8	89.9	92.7	89.9	86.2	92.7	96.3	84.4	92.7	100.0				
1242y	44.4	64.2	56.9	62.4	62.4	67.5	63.3	80.7	76.1	80.7	88.1	79.8	88.1	91.7	90.8	86.2	90.8	93.6	81.7	91.7	92.7	100.0			
1342y	50.0	64.2	57.8	61.5	60.6	67.5	63.3	83.5	75.2	82.6	87.2	80.7	87.2	89.9	87.2	85.3	87.2	92.7	87.2	89.9	91.7	89.9	100.0		
1458f	50.0	59.6	58.7	56.0	56.0	64.9	61.5	78.9	74.3	79.8	84.4	78.0	86.2	90.8	88.1	84.4	88.1	89.9	83.5	90.8	87.2	88.1	88.1	100.0	
TR	55.6	64.2	58.7	62.4	59.6	64.9	63.3	85.3	82.6	82.6	86.2	78.9	90.8	97.2	90.8	85.3	94.5	96.3	85.3	92.7	94.5	92.7	90.8	91.7	100.0



A2.3. QA for John 2 with Text-Type MSS  
(Fractional Agreement)

	05a	P66s	01s	P75s	03s	04s	032s	038s	£1s	£13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	0/0	52/52	52/52	52/52	52/52	0/0	0/0	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	TR
P66s	0/0	31/52	32/52	41/52	52/52	0/0	0/0	34/52	40/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
01s	0/0	43/52	32/52	28/52	36/52	0/0	0/0	34/52	36/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
P75s	0/0	41/52	35/52	41/52	52/52	0/0	0/0	34/52	36/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
03s	0/0	0/0	0/0	0/0	0/0	0/0	0/0	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
04s	0/0	0/0	0/0	0/0	0/0	0/0	0/0	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
032s	0/0	39/52	30/52	28/52	36/52	0/0	0/0	34/52	40/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
038s	0/0	33/52	30/52	28/52	36/52	0/0	0/0	34/52	40/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
£1s	0/0	35/52	32/52	25/52	30/52	0/0	0/0	29/52	39/52	33/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
£13s	0/0	29/52	32/52	25/52	30/52	0/0	0/0	29/52	39/52	33/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
565x	0/0	34/52	29/52	33/52	33/52	0/0	0/0	35/52	37/52	30/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
02s	0/0	36/52	34/52	32/52	40/52	0/0	0/0	35/52	46/52	38/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
041s	0/0	37/52	35/52	32/52	40/52	0/0	0/0	37/52	44/52	38/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	52/52	
10y	0/0	32/52	37/52	30/52	34/52	0/0	0/0	32/52	41/52	37/52	39/52	46/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	
157x	0/0	35/52	35/52	31/52	35/52	0/0	0/0	33/52	41/52	38/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	
1194f	0/0	33/52	34/52	31/52	35/52	0/0	0/0	34/52	41/52	38/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	43/52	
1202f	0/0	29/52	32/52	29/52	33/52	0/0	0/0	35/52	41/52	37/52	39/52	46/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	
1220x	0/0	31/52	33/52	31/52	35/52	0/0	0/0	31/52	39/52	34/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	
1222x	0/0	31/52	33/52	31/52	35/52	0/0	0/0	31/52	39/52	34/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	41/52	
1237f	0/0	34/52	34/52	32/52	34/52	0/0	0/0	34/52	40/52	39/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	
1242y	0/0	34/52	36/52	32/52	38/52	0/0	0/0	32/52	40/52	38/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	
1342y	0/0	35/52	34/52	33/52	39/52	0/0	0/0	34/52	40/52	38/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	40/52	
1458f	0/0	30/52	34/52	31/52	36/52	0/0	0/0	31/52	38/52	35/52	39/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	42/52	
TR	0/0	33/52	37/52	33/52	35/52	0/0	0/0	33/52	43/52	43/52	40/52	45/52	45/52	45/52	45/52	45/52	45/52	45/52	45/52	45/52	45/52	45/52	45/52	45/52	

A2.4. QA for John 2 with Text-Type MSS  
(Percentile Agreement)

05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
05s	100.0					100.0																			
P66s		59.6	100.0																						
01s	82.7	61.5	100.0																						
P75s				78.8	100.0																				
03s																									
04s																									
032s	75.0	57.7	69.2	69.2		100.0																			
038s	63.5	57.7	53.8	69.2		65.4	100.0																		
f1s	67.3	61.5	65.4	61.5		55.8	75.0	100.0																	
f13s	55.8	61.5	48.1	57.7		67.3	71.2	94.2	57.7	100.0															
565x	65.4	55.8	63.5	63.5		67.3	88.5	80.8	75.0	75.0	100.0														
02s	69.2	65.4	61.5	73.1		71.2	84.6	80.8	75.0	88.5	100.0														
041s	71.2	67.3	65.4	76.9		61.5	78.8	78.8	69.2	73.1	86.5	100.0													
045s	59.6	71.2	57.7	67.3		61.5	80.8	73.1	71.2	80.8	84.6	100.0													
10y	61.5	61.5	57.7	65.4		63.5	78.8	78.8	73.1	82.7	84.6	100.0													
157x	67.3	67.3	59.6	67.3		65.4	78.8	75.0	67.3	73.1	82.7	84.6	88.5	92.3	84.6	100.0									
1194f	63.5	65.4	59.6	67.3		67.3	82.7	78.8	69.2	76.9	86.5	82.7	88.5	88.5	84.6	88.5	92.3	100.0							
1202f	67.3	63.5	59.6	67.3		67.3	78.8	71.2	63.5	75.0	76.9	80.8	78.8	84.6	82.7	80.8	100.0								
1220x	55.8	61.5	55.8	63.5		59.6	75.0	82.7	65.4	84.6	78.8	88.5	88.5	88.5	88.5	88.5	88.5	84.6	100.0						
1222x	59.6	63.5	59.6	67.3		65.4	80.8	80.8	71.2	78.8	80.8	88.5	88.5	88.5	90.4	88.5	96.2	82.7	88.5	100.0					
1237f	65.4	63.5	61.5	65.4		61.5	76.9	73.1	63.5	75.0	80.8	86.5	86.5	86.5	90.4	90.4	82.7	90.4	86.5	100.0					
1242y	65.4	65.4	61.5	73.1		65.4	76.9	76.9	63.5	78.8	80.8	84.6	86.5	86.5	90.4	90.4	82.7	90.4	86.5	100.0					
1342y	67.3	65.4	63.5	75.0		59.6	73.1	73.1	67.3	75.0	80.8	76.9	82.3	88.5	84.6	84.6	82.7	88.5	88.5	86.5	100.0				
1458f	57.7	65.4	59.6	69.2		63.5	82.7	82.7	73.1	76.9	86.5	86.5	96.2	88.5	88.5	92.3	92.3	84.6	84.6	82.7	88.5	88.5	86.5	100.0	
TR	63.5	71.2	63.5	67.3		63.5	82.7	82.7	73.1	76.9	86.5	86.5	96.2	88.5	88.5	92.3	92.3	84.6	84.6	82.7	88.5	88.5	86.5	100.0	

A2.5. QA for John 3 with Text-Type MSS  
(Fractional Agreement)

	05s	05s	pegs	01s	P75s	03s	04s	032s	038s	fls	fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	24/24	85/85		85/85	85/85		7/7	85/85																		
P66s	12/24	62/85		64/85	64/85		6/7	57/85																		
01s	17/24	74/85		64/85	74/85		6/7	61/85																		
P75s	13/24	73/85		64/85	74/85		6/7	61/85																		
03s	12/24	73/85		64/85	74/85		6/7	61/85																		
04s	4/6	7/7		7/7	7/7		7/7	85/85																		
02s	15/24	66/85		52/85	70/85		7/7	62/85																		
038s	12/24	58/85		52/85	58/85		7/7	62/85																		
fls	14/24	63/85		60/85	64/85		7/7	62/85																		
fl3s	14/24	63/85		60/85	64/85		7/7	62/85																		
565x	16/24	56/85		59/85	57/85		7/7	58/85																		
02s	15/24	58/85		56/85	61/85		6/7	61/85																		
041s	15/24	61/85		58/85	67/85		6/7	66/85																		
045s	15/24	65/85		64/85	65/85		6/7	64/85																		
10y	13/24	60/85		57/85	60/85		5/7	54/85																		
157x	13/24	60/85		55/85	63/85		5/7	51/85																		
1194f	13/24	60/85		57/85	60/85		5/7	55/85																		
1202f	15/24	65/85		56/85	63/85		6/7	61/85																		
1220x	12/24	59/85		56/85	61/85		6/7	59/85																		
1222x	14/24	62/85		61/85	64/85		7/7	59/85																		
1237f	14/24	62/85		61/85	62/85		6/7	58/85																		
1242y	14/24	60/85		58/85	60/85		6/7	56/85																		
1342y	12/24	59/85		57/85	59/85		5/7	55/85																		
1458f	14/24	57/85		56/85	59/85		6/7	54/85																		
TR	15/24	62/85		63/85	62/85		6/7	61/85																		

A2.6. QA for John 3 with Text-Type MSS  
(Percentile Agreement)

05s	100.0	05s	100.0	01s	P75s	03s	04s	032s	038s	F1s	F13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
P66s	50.0	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	P66s	70.8	TR
01s	70.8	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	01s	87.1	TR
P75s	54.2	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	P75s	87.1	TR
03s	50.0	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	03s	85.9	TR
04s	66.7	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	04s	100.0	TR
038s	50.0	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	038s	68.2	TR
F1s	58.3	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	F1s	74.1	TR
F13s	50.0	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	F13s	65.9	TR
565x	66.7	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	565x	70.6	TR
02s	62.5	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	02s	68.2	TR
041s	62.5	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	041s	71.8	TR
045s	62.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	045s	76.5	TR
10y	54.2	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	10y	70.6	TR
157x	54.2	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	157x	70.6	TR
1194f	54.2	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	1194f	70.6	TR
1202f	62.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	1202f	76.5	TR
1220x	50.0	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	1220x	69.4	TR
1222x	58.3	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	1222x	72.9	TR
1237f	58.3	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	1237f	72.9	TR
1242y	58.3	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	1242y	70.6	TR
1342y	50.0	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	1342y	69.4	TR
1458f	58.3	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	1458f	67.1	TR
TR	62.5	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR	72.9	TR

A2.7. QA for John 4 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	154/154																								
P66s	101/154	154/154																							
01s	108/154	105/154	154/154																						
P75s	90/152	126/152	101/152	152/152																					
03s	91/154	129/154	105/154	136/152	154/154																				
04s	96/154	131/154	107/154	121/152	129/154	154/154																			
032s	96/154	122/154	101/154	111/152	121/154	121/154	154/154																		
038s	94/154	108/154	92/154	97/152	100/154	109/154	109/154	154/154																	
f1s	88/154	116/154	97/154	102/152	106/154	117/154	112/154	121/154	154/154																
f13s	87/154	110/154	84/154	94/152	94/154	107/154	101/154	119/154	117/154	154/154															
565x	92/154	112/154	87/154	97/152	101/154	108/154	109/154	117/154	143/154	118/154	154/154														
02s	96/154	115/154	100/154	108/152	117/154	117/154	118/154	128/154	121/154	117/154	113/154	154/154													
041s	95/154	111/154	88/154	100/152	102/154	109/154	114/154	121/154	124/154	121/154	119/154	130/154	154/154												
045s	95/154	112/154	92/154	101/152	101/154	112/154	112/154	127/154	125/154	124/154	122/154	129/154	135/154	154/154											
10y	88/154	113/154	88/154	97/152	104/154	105/154	105/154	118/154	119/154	122/154	120/154	122/154	129/154	130/154	154/154										
157x	95/154	113/154	92/154	103/152	108/154	109/154	110/154	126/154	125/154	120/154	126/154	132/154	135/154	136/154	134/154	154/154									
1194f	88/154	114/154	90/154	99/152	104/154	108/154	108/154	117/154	120/154	117/154	121/154	125/154	130/154	133/154	147/154	138/154	154/154								
1202f	93/154	115/154	94/154	97/152	101/154	113/154	114/154	126/154	129/154	124/154	128/154	130/154	135/154	142/154	136/154	138/154	141/154	154/154							
1220x	91/154	115/154	88/154	97/152	98/154	108/154	110/154	123/154	124/154	122/154	123/154	128/154	129/154	131/154	127/154	133/154	128/154	135/154	154/154						
1222x	91/154	116/154	90/154	102/152	108/154	110/154	109/154	122/154	123/154	122/154	124/154	128/154	133/154	136/154	141/154	143/154	146/154	142/154	133/154	154/154					
1237f	94/154	114/154	93/154	100/152	102/154	108/154	111/154	121/154	126/154	123/154	129/154	127/154	134/154	139/154	137/154	139/154	142/154	149/154	134/154	143/154	154/154				
1242y	95/154	119/154	92/154	100/152	104/154	111/154	115/154	126/154	123/154	129/154	126/154	125/154	129/154	132/154	132/154	132/154	133/154	138/154	136/154	136/154	137/154	154/154			
1342y	92/154	115/154	90/154	101/152	107/154	112/154	112/154	123/154	124/154	121/154	125/154	131/154	134/154	139/154	137/154	141/154	142/154	145/154	132/154	145/154	144/154	139/154	154/154		
1458f	86/154	114/154	88/154	100/152	106/154	108/154	107/154	117/154	118/154	119/154	119/154	123/154	128/154	131/154	143/154	138/154	148/154	139/154	128/154	148/154	140/154	131/154	140/154	154/154	
TR	94/154	116/154	95/154	100/152	104/154	114/154	117/154	126/154	129/154	126/154	128/154	132/154	137/154	144/154	136/154	140/154	141/154	150/154	135/154	144/154	147/154	140/154	149/154	139/154	154/154

A2.8. QA for John 4 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	fls	fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
P66s	65.6	100.0																							
01s	70.1	68.2	100.0																						
P75s	59.2	82.9	66.4	100.0																					
03s	59.1	83.8	68.2	89.5	100.0																				
04s	62.3	85.1	69.5	79.6	83.8	100.0																			
032s	62.3	79.2	65.6	73.0	78.6	78.6	100.0																		
038s	61.0	70.1	59.7	63.8	64.9	70.8	70.8	100.0																	
fls	57.1	75.3	63.0	67.1	68.8	76.0	72.7	78.6	100.0																
fl3s	56.5	71.4	54.5	61.8	61.0	69.5	65.6	77.3	76.0	100.0															
565x	59.7	72.7	56.5	63.8	65.6	70.1	70.8	76.0	76.6	83.1	78.6	76.0	80.5	77.3	73.4	100.0									
02s	62.3	74.7	64.9	71.1	76.0	76.0	74.0	78.6	80.5	78.6	77.3	84.4	100.0												
041s	61.7	72.1	57.1	65.8	66.2	70.8	74.0	78.6	80.5	78.6	77.3	84.4	100.0												
045s	61.7	72.7	59.7	66.4	65.6	72.7	72.7	82.5	81.2	80.5	79.2	83.8	87.7	100.0											
10y	57.1	73.4	57.1	63.8	67.5	68.2	68.2	76.6	77.3	79.2	77.9	79.2	83.8	87.7	100.0										
157x	61.7	73.4	59.7	67.8	70.1	70.8	71.4	81.8	81.2	77.9	81.8	85.7	87.7	88.3	87.0	100.0									
1194f	57.1	74.0	58.4	65.1	67.5	70.1	70.1	76.0	77.9	76.0	78.6	81.2	84.4	86.4	86.4	95.5	89.6	100.0							
1202f	60.4	74.7	61.0	63.8	65.6	73.4	74.0	81.8	83.8	80.5	83.1	84.4	87.7	88.3	89.6	91.6	100.0								
1220x	59.1	74.7	57.1	63.8	63.6	70.1	71.4	79.9	80.5	79.2	79.9	77.9	83.8	85.1	82.5	86.4	83.1	87.7	100.0						
1222x	59.1	75.3	58.4	67.1	70.1	71.4	70.8	79.2	79.9	79.2	80.5	83.1	86.4	88.3	89.0	90.3	92.2	94.8	92.2	86.4	100.0				
1237f	61.0	74.0	60.4	65.8	66.2	70.1	72.1	81.8	81.8	79.9	83.8	82.5	87.0	88.3	89.0	90.3	92.2	96.8	87.0	92.9	100.0				
1242y	61.7	77.3	59.7	65.8	67.5	72.1	74.7	81.8	79.9	83.8	81.8	81.2	83.8	85.7	85.7	85.7	86.4	89.6	88.3	88.3	88.3	88.3			
1342y	59.7	74.7	58.4	66.4	69.5	72.7	72.7	79.9	80.5	78.6	81.2	85.1	87.0	87.0	89.0	90.3	92.2	94.2	94.2	94.2	94.2	94.2			
1458f	55.8	74.0	57.1	65.8	68.8	70.1	69.5	76.0	76.6	77.3	77.3	79.9	83.1	85.1	85.1	89.6	96.1	96.1	90.3	83.1	96.1	90.9	100.0		
TR	61.0	75.3	61.7	65.8	67.5	74.0	76.0	81.8	83.8	81.8	83.1	85.7	89.0	93.5	88.3	90.9	91.6	97.4	87.7	93.5	95.5	90.9	90.3	100.0	

A2.9. QA for John 5 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	64/124	124/124	124/124	117/117	124/124	49/49																			
P66s	64/124	86/124	124/124	117/117	124/124	49/49																			
01s	68/124	86/124	124/124	117/117	124/124	49/49																			
P75s	58/117	98/117	76/117	109/117	124/124	49/49																			
03s	62/124	108/124	83/124	109/117	124/124	49/49																			
04s	22/49	38/49	35/49	40/48	39/49	49/49																			
032s	73/122	92/122	81/122	88/115	94/122	36/47	122/122																		
038s	68/124	82/124	73/124	79/117	84/124	34/49																			
f1s	65/124	88/124	71/124	82/117	85/124	33/49																			
f13s	69/124	84/124	77/124	78/117	83/124	36/49																			
565x	67/123	90/123	76/123	83/115	86/123	32/48																			
02s	64/122	86/122	72/122	81/115	89/122	31/47																			
041s	67/124	88/124	75/124	83/117	88/124	34/49																			
045s	62/124	86/124	75/124	83/117	88/124	32/49																			
10y	61/124	78/124	71/124	77/117	80/124	32/49																			
157x	61/122	87/122	78/122	85/115	89/122	36/49																			
1194f	62/124	84/124	75/124	82/117	86/124	32/49																			
1202f	63/124	86/124	75/124	84/117	86/124	33/49																			
1220x	60/124	83/124	71/124	78/117	81/124	33/49																			
1222x	62/124	83/124	74/124	81/117	85/124	32/49																			
1237f	64/124	86/124	77/124	84/117	88/124	33/49																			
1242y	64/124	87/124	75/124	82/117	86/124	36/49																			
1342y	62/124	84/124	77/124	82/117	86/124	32/49																			
1458f	60/124	80/124	73/124	78/117	82/124	32/49																			
TR	64/124	86/124	77/124	84/117	88/124	33/49																			

A2.10. QA for John 5 with Text-Type MSS  
(Percentile Agreement)

TR	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
	100.0																								
05s	51.6	100.0																							
P66s	54.8	84.6	69.4	100.0																					
01s	49.6	87.1	66.9	93.2	100.0																				
P75s	50.0	77.6	71.4	83.3	79.6	100.0																			
03s	44.9	75.4	66.4	76.5	67.0	76.6	100.0																		
04s	59.8	66.1	58.9	67.5	65.3	69.4	69.7	100.0																	
032s	54.8	71.0	65.3	70.1	68.5	67.3	66.4	77.3	100.0																
038s	52.4	67.7	62.1	66.7	66.9	73.5	70.5	80.5	81.2	100.0															
f1s	55.6	73.2	61.8	71.6	69.9	66.7	66.9	76.4	88.2	74.8	100.0														
f13s	54.5	70.5	59.0	70.4	73.0	66.0	70.5	73.8	77.8	75.4	72.0	100.0													
565x	54.0	71.0	60.5	70.9	70.2	69.4	70.5	81.2	78.1	78.9	76.4	82.5	100.0												
02s	52.5	69.4	60.5	70.9	71.0	65.3	69.7	85.2	87.5	83.6	83.5	79.4	87.5	100.0											
041s	50.0	62.9	57.3	65.8	64.5	65.3	66.4	80.5	85.2	78.9	80.3	80.0	85.2	89.3	86.1	100.0									
045s	49.2	62.9	57.3	65.8	64.5	65.3	66.4	79.5	84.4	80.3	80.2	80.0	85.2	89.3	86.1	100.0									
10y	50.0	71.3	63.9	73.9	73.0	73.5	67.5	84.4	80.3	80.2	80.0	81.0	85.9	95.3	93.8	89.3	100.0								
157x	50.0	67.7	60.5	70.1	69.4	65.3	69.7	85.2	87.5	83.6	81.9	81.0	87.5	95.3	93.8	89.3	100.0								
1194f	50.8	66.9	60.5	71.8	71.0	67.3	70.5	84.4	82.7	81.0	81.0	81.0	87.5	95.3	92.2	90.2	96.9	100.0							
1202f	48.4	66.9	57.3	66.7	65.3	67.3	71.3	85.9	75.8	83.6	74.8	75.4	85.2	87.5	79.7	78.7	84.4	85.2	100.0						
1220x	50.0	66.9	59.7	69.2	68.5	65.3	70.5	84.4	86.7	82.8	82.7	81.7	85.2	94.5	89.8	88.5	96.1	100.0							
1222x	51.6	69.4	62.1	71.8	71.0	67.3	71.3	85.9	88.3	84.4	82.7	83.3	88.3	96.1	91.4	91.0	97.7	97.7	86.7	86.7	96.9	100.0			
1237f	51.6	70.2	60.5	70.1	71.0	73.5	73.0	82.8	84.4	82.8	78.7	80.2	84.4	89.8	85.2	84.4	89.8	92.2	83.6	83.6	89.1	90.6	100.0		
1242y	50.0	67.7	62.1	70.1	69.4	65.3	69.7	85.2	87.5	83.6	81.9	81.0	85.9	96.9	90.6	89.3	96.9	96.9	85.9	85.9	96.1	97.7	91.4	100.0	
1342y	48.4	64.5	58.9	66.7	65.3	68.0	82.0	85.9	82.0	80.3	77.8	81.2	81.2	92.2	93.0	87.7	95.3	92.2	81.2	81.2	91.4	93.0	92.2	100.0	
1458f	51.6	69.4	62.1	71.8	71.0	67.3	71.3	86.7	89.1	85.2	83.5	82.5	87.5	96.9	92.2	91.0	98.4	98.4	85.9	85.9	97.7	99.2	91.4	98.4	100.0



A2.11. QA for John 6 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	241/241																								
P66s	94/155	155/155																							
01s	143/241	97/155	241/241																						
P75s	126/223	101/143	142/223	223/223																					
03s	138/238	113/155	146/238	202/223	238/238																				
04s	69/117	80/116	69/117	90/108	100/117	117/117																			
032s	141/241	102/155	142/241	157/223	179/238	92/117	241/241																		
038s	139/241	98/155	146/241	154/223	167/238	86/117	163/241	241/241																	
f1s	134/238	107/155	135/238	164/223	172/238	90/117	174/238	171/238	238/238																
f13s	131/241	93/155	127/241	135/223	145/238	76/117	155/241	172/241	167/238	241/241															
565x	128/238	102/155	138/238	164/223	170/238	90/117	167/238	168/238	224/238	160/238	238/238														
02s	94/165	59/83	98/165	110/156	120/165	32/44	118/165	121/165	136/165	119/165	132/165	165/165													
041s	89/171	105/155	103/171	113/156	124/171	88/117	129/171	124/171	144/171	134/171	140/171	86/98	171/171												
045s	131/241	98/155	135/241	151/223	156/238	81/117	180/241	182/241	188/238	180/241	180/238	135/165	148/171	241/241											
10y	119/241	95/155	129/241	145/223	153/238	77/117	169/241	166/241	180/238	167/241	175/238	124/165	137/171	206/241	241/241										
157x	112/238	90/155	123/238	145/223	153/238	72/117	158/238	165/238	170/238	163/238	166/238	127/165	129/171	191/238	181/238	238/238									
1194f	120/241	91/155	130/241	145/223	148/238	76/117	172/241	170/241	181/238	171/241	176/238	126/165	141/171	215/241	225/241	186/238	241/241								
1202f	127/241	96/155	133/241	147/223	151/238	84/117	175/241	173/241	183/238	175/241	177/238	127/165	145/171	220/241	213/241	188/238	218/241	241/241							
1220x	124/233	99/150	132/233	148/218	159/233	80/112	165/233	170/233	180/233	179/233	178/233	137/165	145/166	201/233	181/233	180/233	185/233	192/233	233/233						
1222x	131/241	97/155	135/241	153/223	157/238	84/117	185/241	183/241	191/238	181/241	183/238	136/165	147/171	230/241	215/241	196/238	222/241	227/241	200/233	241/241					
1237f	126/241	97/155	134/241	148/223	152/238	83/117	176/241	172/241	186/238	174/241	176/238	127/165	146/171	219/241	211/241	189/238	218/241	234/241	191/233	226/241	241/241				
1242y	140/241	102/155	142/241	158/223	163/238	85/117	178/241	174/241	187/238	179/241	181/238	133/165	143/171	213/241	200/241	182/238	201/241	208/241	195/233	214/241	207/241	241/241			
1342y	123/241	96/155	134/241	152/223	157/238	85/117	180/241	184/241	191/238	177/241	185/238	130/165	146/171	223/241	210/241	191/238	217/241	220/241	193/233	228/241	217/241	207/241	241/241		
1458f	128/241	93/155	129/241	144/223	151/238	81/117	179/241	173/241	182/238	173/241	177/238	130/165	142/171	219/241	216/241	188/238	221/241	220/241	189/233	226/241	215/241	207/241	221/241	241/241	
TR	130/241	98/155	136/241	153/223	160/238	81/117	188/241	184/241	194/238	178/241	186/238	137/165	148/171	231/241	212/241	195/238	221/241	224/241	200/233	234/241	223/241	213/241	227/241	223/241	241/241

A2.12. QA for John 6 with Text-Type MSS  
(Percentile Agreement)

	02s	P66s	01s	P75s	03s	04s	032s	038s	Fls	Fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	60.6	100.0																							
01s	59.3	62.6	100.0																						
P75s	56.5	70.6	63.7	100.0																					
03s	58.0	72.9	61.3	90.6	100.0																				
04s	59.0	69.0	59.0	83.3	85.5	100.0																			
032s	58.5	65.8	58.9	70.4	75.2	78.6	100.0																		
038s	57.7	63.2	60.6	69.1	70.2	73.5	76.9	73.1	71.8	100.0															
Fls	56.3	69.0	56.7	73.5	72.3	76.9	64.3	71.4	70.2	100.0															
Fl3s	54.4	60.0	52.7	60.9	60.9	65.0	64.3	70.6	74.7	82.4	72.1	100.0													
565x	53.8	65.8	58.0	73.5	71.4	76.9	70.2	70.6	74.7	81.9	87.8	100.0													
02s	57.0	71.1	59.4	70.5	72.7	72.7	71.5	73.3	82.4	72.1	80.0	100.0													
041s	52.0	67.7	60.2	72.4	72.5	75.2	75.4	72.5	84.2	78.4	75.6	81.8	86.5	100.0											
045s	54.4	63.2	56.0	67.7	65.5	69.2	74.7	75.5	79.0	74.7	75.2	80.1	85.5	100.0											
10y	49.4	61.3	53.5	65.0	64.3	65.8	70.1	68.9	75.6	69.3	73.5	75.4	80.3	100.0											
157x	47.1	58.1	51.7	65.0	62.2	65.0	71.4	70.5	76.1	71.0	73.9	76.4	82.5	89.2	93.4	78.2	100.0								
1194f	49.8	58.7	53.9	65.0	62.2	65.0	71.4	70.5	76.1	71.0	73.9	76.4	82.5	89.2	93.4	78.2	100.0								
1202f	52.7	61.9	55.2	65.9	63.4	71.8	72.6	71.8	77.3	76.8	76.4	83.0	87.3	86.3	77.7	77.3	79.4	82.4	100.0						
1220x	53.2	66.0	56.7	67.9	68.2	71.4	70.8	73.0	77.3	76.8	76.4	83.0	87.3	86.3	77.7	77.3	79.4	82.4	100.0						
1222x	54.4	62.6	56.0	68.6	66.0	71.8	76.8	75.9	80.3	75.1	76.9	82.4	86.0	95.4	89.2	82.4	92.1	94.2	85.8	100.0					
1237f	52.3	62.6	55.6	66.4	63.9	70.9	73.0	71.4	78.2	72.2	73.9	77.0	85.4	90.9	87.6	79.4	90.5	97.1	82.0	93.8	100.0				
1242y	58.1	65.8	58.9	70.9	68.5	72.6	73.9	72.2	78.6	74.3	76.1	80.6	83.6	88.4	83.0	76.5	83.4	86.3	83.7	88.8	85.9	100.0			
1342y	51.0	61.9	55.6	68.2	66.0	72.6	74.7	76.3	80.3	73.4	77.7	78.8	85.4	92.5	87.1	80.3	90.0	91.3	82.8	94.6	90.0	85.9	100.0		
1458f	53.1	60.0	53.5	64.6	63.4	69.2	74.3	71.8	76.5	71.8	74.4	78.8	83.0	90.9	89.6	79.0	91.7	91.3	81.1	93.8	89.2	85.9	100.0		
TR	53.9	63.2	56.4	68.6	67.2	69.2	78.0	76.3	81.5	73.9	78.2	83.0	86.5	95.9	88.0	81.9	91.7	92.9	85.8	97.1	92.5	88.4	94.2	92.5	100.0

A2.13. QA for John 7 with Text-Type MSS  
(Fractional Agreement)

058	155/155	P665	015	P758	038	045	0325	0388	F15	F135	555x	025	0415	0455	10Y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
P668	100/155	155/155	155/155	155/155																					
015	105/155	115/155	155/155	155/155																					
P758	79/155	99/155	87/155	155/155	155/155																				
038	86/155	104/155	86/155	136/155	155/155																				
045	6/	8	5/	8	8/	8	8/	8	8/	8	8/	8	8/	8	8	8	8	8	8	8	8	8	8	8	
0325	95/155	102/155	91/155	122/155	123/155																				
0388	94/155	95/155	95/155	104/155	105/155																				
F15	93/155	94/155	93/155	109/155	101/155																				
F135	83/154	84/154	81/154	102/154	91/154																				
555x	92/155	94/155	90/155	108/155	104/155																				
025	5/	8	4/	8	4/	8	7/	8	7/	8	7/	8	7/	8	6/	8	6/	8	6/	8	7/	8	7/	8	
0415	89/152	89/152	89/152	102/152	96/152																				
0458	89/155	87/155	87/155	102/155	97/155																				
10Y	90/155	98/155	87/155	98/155	91/155																				
1194f	82/155	83/155	83/155	100/155	93/155																				
1202f	91/155	85/155	85/155	103/155	96/155																				
1220x	87/155	87/155	97/155	99/155	100/155																				
1222x	89/155	89/155	90/155	104/155	97/155																				
1237f	87/155	85/155	89/155	103/155	96/155																				
1242y	84/155	91/155	89/155	109/155	103/155																				
1458f	86/155	89/155	87/155	103/155	92/155																				
TR	87/155	86/155	88/155	102/155	95/155																				

A2.14. QA for John 7 with Text-Type MSS  
(Percentile Agreement)

TR	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	64.5	100.0																							
01s	67.7	74.2	100.0																						
P75s	51.0	63.9	56.1	100.0																					
03s	55.5	67.1	55.5	87.7	100.0																				
04s	75.0	62.5	62.5	100.0	100.0																				
032s	61.3	65.8	58.7	78.7	79.4	87.5	100.0																		
038s	60.6	61.3	61.3	67.1	67.7	87.5	69.7	100.0																	
f1s	60.0	60.6	60.0	70.3	65.2	87.5	72.9	100.0																	
f13s	53.9	54.5	52.6	66.2	59.1	87.5	67.5	75.3	73.4	100.0															
565x	59.4	60.6	58.1	69.7	67.1	100.0	73.5	74.2	89.0	73.4	100.0														
02s	62.5	50.0	50.0	87.5	87.5	75.0	75.0	75.0	75.0	75.0	87.5	100.0													
041s	58.6	58.6	58.6	67.1	63.2	75.0	70.4	67.8	73.0	70.2	74.3	62.5	100.0												
045s	57.4	56.1	56.1	65.8	62.6	75.0	67.7	67.7	78.7	74.0	76.1	87.5	77.0	100.0											
10y	53.5	54.8	53.5	63.2	58.7	62.5	66.5	61.9	77.4	73.4	72.9	75.0	71.1	84.5	100.0										
157x	58.1	63.2	62.6	68.4	66.5	87.5	73.5	68.4	76.8	76.0	73.5	100.0	73.0	84.5	82.6	100.0									
1194f	52.9	53.5	53.5	64.5	60.0	75.0	67.7	63.9	78.1	72.7	73.5	87.5	73.0	87.7	94.2	82.6	100.0								
1202f	56.1	54.8	54.8	66.5	61.9	62.5	66.5	67.1	80.6	70.1	74.2	75.0	74.3	86.5	87.1	81.3	91.6	100.0							
1220x	58.7	62.6	58.1	63.9	64.5	75.0	68.4	68.4	74.2	72.7	72.3	87.5	77.6	85.8	79.4	86.5	78.7	80.0	100.0						
1222x	57.4	56.8	58.1	67.1	62.6	75.0	68.4	67.1	77.4	76.6	72.3	87.5	77.0	89.0	89.7	89.0	89.7	84.5	100.0						
1237f	56.1	54.8	58.1	66.5	61.9	75.0	67.7	68.4	81.3	73.4	77.4	87.5	77.0	89.7	87.1	83.9	90.3	93.5	81.3	91.0	100.0				
1242y	54.2	58.7	57.4	70.3	66.5	87.5	71.6	65.8	75.5	70.1	72.9	100.0	77.0	82.6	82.6	81.9	83.2	82.6	80.6	85.8	82.6	100.0			
1342y	55.5	54.8	56.1	66.5	61.9	75.0	67.7	78.7	76.6	73.5	87.5	87.5	75.0	92.9	89.7	88.4	90.3	89.0	82.6	95.5	90.3	84.5	100.0		
1458f	51.6	53.5	52.3	63.9	59.4	75.0	65.8	63.2	74.2	73.4	69.7	87.5	71.7	86.5	91.6	82.6	93.5	89.0	79.4	92.3	89.0	82.6	90.3	100.0	
TR	56.1	55.5	56.8	65.8	61.3	75.0	67.1	67.1	79.4	74.7	74.2	87.5	76.3	95.5	88.4	87.1	91.6	89.7	83.9	96.1	92.9	85.8	96.8	91.0	100.0

A2.15. QA for John 8 with Text-Type MSS  
(Fractional Agreement)

055	P665	015	P755	035	045	0325	0385	£15	£136	565X	025	0415	0455	10Y	157X	1194F	1202F	1220X	1222X	1237F	1242Y	1342Y	1458F	TR
055	215/215																							
P665	101/162	164/164																						
015	103/161	116/163	163/163																					
P755	99/162	135/164	122/163	164/164																				
035	99/162	135/164	119/163	148/164	164/164																			
045	50/95	75/97	75/96	86/97	80/97																			
0325	98/161	122/163	118/163	134/163	138/163	78/97																		
0385	107/165	119/164	124/163	126/164	120/164	82/97																		
£15	131/215	115/164	111/163	122/164	103/163	71/96																		
565X	89/157	115/159	107/158	124/159	118/159	82/94																		
025	23/39	27/36	27/36	31/36	26/36	31/35																		
0415	51/91	54/68	52/68	60/68	51/68	62/68																		
0455	128/212	109/161	112/160	117/161	112/161	80/97																		
10Y	117/215	111/164	112/163	120/164	112/164	81/97																		
157X	94/162	116/164	112/163	128/164	113/164	78/97																		
1194F	119/215	110/164	113/163	119/164	113/164	80/97																		
1202F	120/215	112/164	113/163	121/164	115/164	80/97																		
1220X	129/210	106/159	104/158	114/159	106/159	78/96																		
1222X	128/215	117/164	117/163	126/164	120/164	81/97																		
1237F	119/215	113/164	116/163	122/164	116/164	81/97																		
1242Y	95/162	114/164	113/163	124/164	115/164	77/97																		
1342Y	122/215	110/164	111/163	119/164	112/164	76/97																		
1458F	121/215	109/164	108/163	118/164	112/164	82/97																		
TR	127/215	114/164	117/163	123/164	117/164	82/97																		

A2.16. QA for John 8 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	fls	fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	62.3	100.0																							
01s	64.0	71.2	100.0																						
P75s	61.1	82.3	73.0	100.0																					
03s	61.1	82.3	78.1	88.7	100.0																				
04s	52.6	77.3	72.4	82.2	84.7	100.0																			
032s	60.9	74.8	72.4	82.2	84.7	81.2	100.0																		
038s	64.8	72.6	76.1	76.8	73.2	79.4	76.1	100.0																	
fls	60.9	70.1	68.1	74.4	74.4	84.5	74.8	76.6	100.0																
fl3s	57.9	63.8	70.4	69.3	63.2	74.0	66.0	66.1	72.3	100.0															
565x	56.7	72.3	67.7	78.0	74.2	87.2	73.4	76.7	92.5	74.1	100.0														
02s	59.0	75.0	75.0	86.1	72.2	88.6	80.6	86.1	92.3	76.3	94.4	100.0													
041s	56.0	79.4	76.5	88.2	75.0	91.2	79.4	80.9	79.4	64.6	88.2	94.3	100.0												
045s	59.4	67.7	70.0	72.7	69.6	82.5	69.4	76.2	78.4	73.7	78.2	84.6	78.4	100.0											
10y	54.4	67.7	68.7	73.2	68.3	83.5	69.9	73.7	72.9	70.0	81.1	92.3	93.8	80.3	100.0										
157x	58.0	70.7	68.7	78.0	74.4	79.4	72.4	77.4	79.3	72.4	81.1	91.7	89.7	86.3	85.4	100.0									
1194f	55.3	67.1	69.3	72.6	68.9	80.4	70.6	74.3	74.2	70.0	79.9	87.2	91.8	81.7	93.2	86.0	86.0	100.0							
1202f	55.8	66.3	69.3	73.8	70.1	82.5	66.9	73.0	79.6	70.0	83.6	89.7	89.7	82.6	86.0	86.0	88.2	100.0							
1220x	58.6	66.7	65.8	71.7	66.7	81.2	67.7	71.0	77.4	72.6	80.1	84.2	80.4	84.7	79.7	82.4	81.1	82.1	100.0						
1222x	58.1	71.3	71.8	76.8	73.2	83.5	71.2	77.8	76.5	72.7	83.0	92.3	93.8	83.5	91.9	89.6	89.6	80.7	100.0						
1237f	55.3	68.9	71.2	74.4	70.7	83.5	68.9	75.4	78.1	70.9	81.8	92.3	90.7	84.9	87.3	86.6	88.7	94.6	83.5	88.7	100.0				
1242y	58.6	69.5	69.3	75.6	70.7	79.4	68.7	75.6	75.0	74.2	76.7	80.6	86.8	87.6	85.4	82.9	86.0	86.6	81.8	88.4	100.0				
1342y	56.7	67.1	68.1	72.6	68.9	80.4	68.1	73.1	74.2	71.8	78.6	79.5	74.2	84.4	75.6	87.8	77.8	78.3	71.8	81.0	80.5	85.4	100.0		
1458f	56.3	66.5	66.3	72.0	68.3	78.4	67.5	73.1	76.9	71.8	78.0	82.1	80.4	87.2	81.9	84.8	86.4	85.1	81.1	84.2	86.4	86.6	81.0	100.0	
TR	59.1	69.5	71.8	75.0	71.3	84.5	71.8	79.0	79.2	73.6	81.1	89.7	90.7	87.6	88.7	88.4	91.0	89.6	82.1	92.3	91.0	90.9	84.6	88.7	100.0

A2.17. QA for John 9 with Text-Type MSS  
(Fractional Agreement)

055	138/138	P665	015	F755	035	045	0325	0385	F15	F135	565x	025	0415	0455	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
P666	62/138	139/139																								
015	72/136	96/137	137/137																							
F755	64/138	96/137	107/137	137/137																						
035	64/138	98/139	111/137	117/137																						
045	10/25	15/25	17/25	19/25	21/25	25/25																				
0325	67/136	85/137	101/137	110/137	106/137	139/139																				
0385	76/138	82/139	83/137	87/137	92/139	14/25	87/137	139/139																		
F15	65/138	79/139	83/137	82/137	92/139	16/25	82/137	99/139	139/139																	
F135	60/138	62/139	68/137	72/137	69/139	14/25	75/137	89/139	94/139	139/139																
565x	68/138	74/139	81/137	82/137	89/139	17/25	76/137	85/139	102/139	97/139	139/139															
025	53/138	74/139	74/137	75/137	76/139	15/25	76/137	85/139	102/139	106/139	98/139	139/139														
0415	34/70	38/71	43/71	43/71	41/71	15/25	43/71	47/71	50/71	51/71	60/71	71/71														
0455	61/138	68/139	75/137	78/137	78/139	17/25	82/137	94/139	100/139	108/139	104/139	114/139	62/71	123/139	139/139											
10y	61/138	74/139	74/137	80/137	86/139	19/25	79/137	91/139	103/139	108/139	107/139	113/139	55/71	106/137	112/137	137/137	139/139									
157x	60/138	79/137	80/135	84/135	86/137	17/25	84/135	92/137	99/137	94/137	101/137	101/137	55/71	106/137	112/137	137/137	139/139									
1194f	60/138	74/139	74/137	80/137	86/139	18/25	79/137	91/139	105/139	112/139	111/139	117/139	64/71	125/139	135/139	114/137	139/139									
1202f	59/138	70/139	73/137	76/137	78/139	17/25	78/137	90/139	106/139	109/139	112/139	116/139	63/71	130/139	130/139	109/137	132/139	139/139								
1220x	66/137	72/138	76/136	79/136	77/138	17/25	79/136	95/138	104/138	104/138	105/139	118/139	64/71	126/139	129/139	112/137	131/139	130/139	122/138	139/139						
1222x	61/138	70/139	74/137	76/137	76/139	14/25	76/137	92/139	101/139	115/139	110/139	118/139	64/71	130/139	130/139	109/137	132/139	139/139	121/138	139/139						
1237f	61/138	72/139	75/137	78/137	80/139	16/25	80/137	92/139	106/139	111/139	110/139	117/139	64/71	130/139	130/139	109/137	132/139	139/139	121/138	139/139						
1242y	66/138	72/139	78/137	81/137	84/139	16/25	86/137	98/139	109/139	104/139	104/139	107/139	64/71	134/139	131/139	117/139	137/139	139/139	122/138	139/139						
1342y	64/138	70/139	75/137	78/137	80/139	16/25	77/137	91/139	105/139	112/139	105/139	117/139	64/71	127/139	129/139	110/137	131/139	132/139	122/138	139/139						
1458f	60/138	70/139	75/137	74/137	76/139	16/25	77/137	91/139	104/139	105/139	105/139	118/139	66/71	127/139	129/139	110/137	131/139	132/139	118/138	137/139	133/139	133/139	133/139	139/139		
TR	64/138	70/139	76/137	79/137	79/139	16/25	81/137	95/139	103/139	115/139	107/139	117/139	64/71	132/139	128/139	110/137	130/139	133/139	121/138	133/139	135/139	121/139	134/139	132/139	139/139	

A2.18. QA for John 9 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	44.9	100.0																							
01s	52.9	70.1	100.0																						
P75s	47.1	70.1	78.1	100.0																					
03s	46.4	70.5	81.0	85.4	100.0																				
04s	40.0	60.0	68.0	76.0	84.0	100.0																			
032s	49.3	62.0	73.7	80.3	77.4	84.0	100.0																		
038s	55.1	59.0	61.3	63.5	66.2	56.0	63.5	100.0																	
f1s	47.1	56.8	60.6	59.9	66.2	64.0	59.9	71.2	100.0																
f13s	43.5	44.6	49.6	52.6	49.6	56.0	54.7	64.0	67.6	100.0															
565x	49.3	53.2	59.1	59.9	64.0	68.0	59.9	69.8	92.1	76.3	100.0														
02s	38.4	53.2	54.0	54.7	60.0	60.0	55.5	61.2	73.4	83.1	71.8	84.5	100.0												
041s	48.6	53.5	60.6	60.6	57.7	68.0	60.6	66.2	70.4	83.1	71.8	82.0	88.7	100.0											
045s	44.2	48.9	54.7	56.9	56.1	76.0	59.9	67.6	71.9	77.7	74.8	82.0	88.7	100.0											
10y	44.2	53.2	54.0	58.4	59.0	76.0	57.7	65.5	74.1	77.7	77.0	81.3	87.3	88.5	100.0										
157x	47.8	57.7	59.3	62.2	62.8	68.0	62.2	67.2	72.3	68.6	73.7	73.7	77.5	77.4	81.8	100.0									
1194f	43.5	53.2	54.0	58.4	59.0	72.0	57.7	65.5	75.5	80.6	79.9	84.2	90.1	89.9	97.1	83.2	100.0								
1202f	42.8	52.2	55.9	58.1	56.1	68.0	56.9	64.7	76.3	78.4	80.6	83.5	88.7	93.5	93.5	79.6	95.0	100.0							
1220x	48.2	52.2	55.9	58.1	55.8	60.0	58.1	68.8	75.4	83.3	75.4	84.1	87.3	85.5	85.5	77.9	87.0	86.2	100.0						
1222x	44.2	50.4	54.0	55.5	54.7	56.0	55.5	66.2	72.7	82.7	75.5	84.9	90.1	90.6	92.8	81.8	94.2	93.5	88.4	100.0					
1237f	44.2	51.8	54.7	56.9	57.6	68.0	58.4	66.2	76.3	79.9	79.1	84.9	88.7	93.5	93.5	79.6	95.0	98.6	87.7	95.0	100.0				
1242y	47.8	52.5	56.9	59.1	60.4	64.0	62.8	70.5	74.1	77.7	74.8	77.0	76.1	82.0	82.7	78.8	84.2	84.9	81.2	86.3	100.0				
1342y	46.4	51.8	54.7	56.9	56.1	64.0	56.2	65.5	74.1	80.6	77.0	84.2	90.1	91.4	92.8	80.3	94.2	95.0	88.4	97.1	96.4	100.0			
1458f	43.5	50.4	54.7	54.0	54.7	64.0	56.2	65.5	72.7	80.6	75.5	84.9	93.0	91.4	92.8	80.3	94.2	95.0	85.5	95.0	95.0	100.0			
TR	46.4	50.4	55.5	57.7	56.8	64.0	59.1	68.3	74.1	82.7	77.0	84.2	90.1	95.0	92.1	80.3	93.5	95.7	87.7	95.7	97.1	87.1	96.4	95.0	100.0



A2.19. QA for John 10 with Text-Type MSS  
(Fractional Agreement)

054	125/125	054	P665	015	P755	035	045	0325	0385	115	1135	565x	025	0415	0455	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
P666	77/125	126/126																								
015	78/125	85/126	127/127																							
P756	73/122	91/123	87/124	124/124																						
034	69/125	88/126	94/127	105/124	127/127																					
044	0/0	0/0	0/0	0/0	0/0																					
0324	67/125	86/126	89/127	94/124	99/127	0/0	0	127/127	127/127																	
0384	70/125	86/126	81/127	80/124	90/127	0/0	0	79/127	91/127																	
113	71/125	83/126	83/127	91/124	90/127	0/0	0	91/127	92/127																	
113x	60/125	83/126	77/127	73/124	75/127	0/0	0	74/127	82/127																	
565x	66/125	83/126	78/127	84/124	82/127	0/0	0	87/127	86/127	117/127	53/127	127/127														
024	68/125	86/126	76/127	88/124	83/127	0/0	0	83/127	88/125	100/125	105/127	106/127	127/127													
0418	68/123	82/124	77/125	89/124	86/125	0/0	0	85/125	83/125	101/125	97/125	111/125	125/125													
0458	71/125	81/126	73/127	89/124	80/127	0/0	0	74/127	84/127	97/127	91/127	94/127	106/125	127/127												
10y	67/125	80/126	70/127	83/124	89/126	0/0	0	81/126	77/126	90/126	93/126	95/126	101/126	127/127												
1194f	67/125	83/126	80/126	96/123	89/126	0/0	0	74/127	80/127	89/127	96/127	95/127	103/125	114/127	123/127											
1202f	66/125	84/126	67/127	86/124	82/127	0/0	0	77/127	81/127	89/127	94/127	96/127	100/127	103/127	103/127											
1220x	67/125	85/126	71/127	82/124	77/127	0/0	0	77/127	78/127	94/127	96/127	97/127	100/127	105/125	107/127	103/127										
1222x	67/125	83/126	68/127	90/124	82/127	0/0	0	76/127	84/127	91/127	97/127	96/127	97/127	100/125	106/125	119/127	98/126	103/127	105/127	127/127						
1237f	66/125	84/126	57/127	87/124	81/127	0/0	0	76/127	80/127	91/127	96/127	96/127	97/127	100/125	106/125	119/127	98/126	103/127	105/127	127/127						
1242y	70/125	81/126	72/127	86/124	80/127	0/0	0	78/127	83/127	92/127	97/127	96/127	98/127	100/125	106/125	119/127	98/126	103/127	105/127	127/127						
1458f	67/125	80/126	68/126	84/124	80/126	0/0	0	78/126	83/126	94/126	96/126	96/126	99/126	100/126	111/126	118/127	99/126	102/126	113/126	116/126	106/126	117/126	107/126	126/126		
TR	68/125	86/126	70/127	90/124	83/127	0/0	0	79/127	86/127	95/127	98/127	101/127	113/127	107/125	113/127	113/127	99/126	117/127	122/127	108/127	123/127	121/127	111/127	121/126	127/127	

A2.20. QA for John 10 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	F1s	F13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	61.6	100.0																							
01s	62.4	67.5	100.0																						
P75s	59.8	74.0	70.2	100.0																					
03s	55.2	69.8	74.0	84.7	100.0																				
04s						100.0																			
032s	53.6	68.3	69.3	75.8	78.0		100.0																		
038s	56.0	68.3	63.8	64.5	70.9		62.2	100.0																	
F1s	56.8	69.8	65.4	73.4	70.9		71.7	71.7	100.0																
F13s	48.0	67.5	60.6	60.5	59.1		58.3	72.4	72.4	100.0															
565x	52.8	65.9	61.4	67.7	64.6		68.5	67.7	92.1	73.2	100.0														
02s	54.4	68.3	59.8	71.0	65.4		65.4	69.3	78.7	82.7	83.5	100.0													
041s	55.3	66.1	61.6	74.6	68.8		68.0	66.4	80.8	77.6	79.2	88.8	100.0												
045s	56.8	64.3	57.5	71.0	63.0		58.3	66.1	76.4	78.0	79.5	89.8	84.8	100.0											
10y	53.6	63.5	55.1	66.9	63.8		59.8	63.0	71.7	74.0	76.4	85.8	82.4	89.8	100.0										
157x	53.6	66.4	63.5	73.2	70.6		64.3	61.1	71.4	73.8	75.4	80.2	79.0	77.8	75.4	100.0									
1194f	52.8	66.7	52.8	69.4	65.4		58.3	63.0	70.1	74.0	73.2	84.3	82.4	89.8	96.9	77.0	100.0								
1202f	52.0	67.5	52.0	71.0	64.6		60.6	63.8	70.9	74.8	75.6	88.2	84.8	90.6	92.9	77.8	96.1	100.0							
1220x	53.6	67.5	55.9	66.1	60.6		60.6	61.4	71.0	75.6	78.7	87.4	84.0	84.3	81.1	77.0	81.1	82.7	100.0						
1222x	53.6	65.9	53.5	72.6	64.6		59.8	66.1	71.7	76.4	76.4	84.8	84.8	93.7	88.2	77.8	91.3	95.3	82.7	100.0					
1237f	52.8	66.7	52.8	70.2	63.8		59.8	63.0	71.7	75.6	76.4	87.4	85.6	91.3	93.7	78.6	96.9	99.2	83.5	94.5	100.0				
1242y	51.2	65.1	56.7	69.4	63.0		61.4	65.4	72.4	77.2	77.2	85.8	82.4	85.8	81.9	77.0	81.9	84.3	84.3	84.3	87.4	83.5	100.0		
1342y	56.0	64.8	54.8	70.7	63.5		58.7	65.9	74.6	76.2	79.4	88.1	84.7	94.4	88.1	81.0	89.7	92.1	84.1	84.1	92.9	84.9	100.0		
1458f	53.6	63.5	53.5	67.7	62.2		61.4	61.4	73.2	75.6	78.0	89.0	85.6	92.9	93.7	78.6	93.7	94.5	85.0	85.0	91.3	85.0	92.9	100.0	
TR	54.4	68.3	55.1	72.6	65.4		62.2	67.7	74.8	77.2	79.5	90.6	85.6	93.7	89.0	78.6	92.1	96.1	85.0	85.0	96.9	95.3	87.4	96.0	93.7

A2.21. QA for John 11 with Text-Type MSS  
(Fractional Agreement)

05s	168/168	P66s	01s	P75s	03s	04s	032s	038s	F1s	F13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
B66s	102/168	168/168	120/168	126/147	147/147	168/168	109/109	168/168	88/109	168/168	75/109	120/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
01s	92/168	103/147	126/147	147/147	168/168	109/109	168/168	88/109	168/168	75/109	120/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
P75s	79/147	103/147	126/147	147/147	168/168	109/109	168/168	88/109	168/168	75/109	120/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
03s	63/109	77/109	89/109	87/102	100/109	109/109	168/168	88/109	168/168	75/109	120/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
032s	94/168	122/168	141/168	125/147	143/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
038s	84/168	113/168	119/168	107/147	122/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
F1s	89/168	107/168	111/168	110/147	115/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
F13s	86/168	102/168	111/168	105/147	115/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
565x	46/96	58/96	66/96	63/89	67/96	26/44	70/96	66/96	85/96	70/96	96/96	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
02s	94/168	117/168	120/168	104/147	123/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
041s	101/168	116/168	122/168	109/147	123/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
045s	96/168	111/168	117/168	113/147	123/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
10y	94/168	113/168	122/168	117/147	123/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
157x	93/168	112/168	122/168	113/147	123/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
1194f	93/168	114/168	121/168	117/147	125/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
1202f	96/168	114/168	121/168	116/147	126/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
1220x	96/168	109/168	118/168	110/147	121/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
1222x	95/168	113/168	121/168	115/147	125/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
1237f	84/168	111/168	121/168	115/147	123/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
1342y	88/168	104/168	113/168	108/147	119/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
1458f	95/168	111/168	119/168	112/147	123/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168
TR	95/168	111/168	120/168	116/147	124/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168	168/168

A2.22. QA for John 11 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	60.7	100.0																							
01s	55.4	71.4	100.0																						
P75s	53.7	70.1	85.7	100.0																					
03s	56.0	76.8	87.5	93.2	100.0																				
04s	57.8	70.6	81.7	85.3	91.7	100.0																			
032s	56.0	72.6	83.9	85.0	85.1	80.7	100.0																		
038s	50.0	67.3	70.8	72.8	72.6	68.8	71.4	100.0																	
f1s	53.0	63.7	73.2	74.8	75.6	69.7	73.8	76.8	100.0																
f13s	51.2	60.7	66.1	71.4	68.5	66.1	69.0	76.8	76.2	100.0															
565x	47.9	60.4	68.8	70.8	69.8	59.1	72.9	68.8	88.5	75.6	72.9	100.0													
02s	56.0	69.6	71.4	70.7	73.2	66.1	73.8	68.5	75.6	72.9	100.0														
041s	60.1	69.0	72.6	74.1	74.4	70.6	74.4	72.0	75.6	74.0	89.3	100.0													
045s	57.1	66.1	69.6	76.9	73.2	67.0	74.4	72.6	77.4	81.5	75.0	82.7	87.5	100.0											
10y	56.0	67.3	72.6	79.6	75.0	68.8	74.4	72.0	72.6	77.4	74.0	76.8	78.0	78.0	100.0										
157x	54.2	66.7	72.6	76.9	76.8	75.2	78.6	72.0	72.6	75.0	74.0	76.8	78.0	78.0	79.2	100.0									
1194f	55.4	67.9	72.0	79.6	74.4	68.8	75.0	74.4	76.8	82.7	75.0	85.7	87.5	90.5	98.2	81.0	100.0								
1202f	57.1	67.9	72.0	78.9	75.0	67.9	75.6	73.8	78.0	83.9	76.0	86.9	88.7	93.5	95.8	81.5	95.2	100.0							
1220x	57.1	64.9	70.2	74.8	72.0	65.1	74.4	72.0	78.6	83.3	77.1	83.3	86.9	91.1	90.5	78.6	89.9	93.5	100.0						
1222x	57.1	67.3	72.0	78.2	74.4	67.9	75.6	73.2	78.6	83.3	75.0	85.7	88.7	93.5	92.9	79.8	93.5	94.6	94.0	100.0					
1237f	56.0	66.1	72.0	78.2	73.2	66.1	74.4	74.4	79.8	83.3	79.2	85.7	87.5	92.3	95.8	79.8	93.5	94.6	94.0	100.0					
1242y	52.4	61.9	67.3	73.5	70.8	67.0	72.0	73.8	78.0	78.0	77.1	75.0	79.8	85.1	83.9	79.2	85.7	84.5	83.9	87.5	85.1	100.0			
1342y	56.5	66.1	70.8	76.2	73.2	66.1	72.0	73.8	79.8	83.9	77.1	85.1	88.1	91.7	92.3	81.0	91.7	92.9	93.5	94.6	93.5	100.0			
1458f	57.1	67.3	72.6	80.3	74.4	67.9	75.6	73.8	79.2	82.1	76.0	85.1	88.7	94.6	95.2	78.6	94.6	95.8	92.9	96.4	95.8	100.0			
TR	56.5	66.1	71.4	78.9	73.8	67.0	76.2	75.6	79.2	83.3	76.0	84.5	87.5	93.5	94.0	79.2	94.6	94.6	94.0	96.4	95.2	88.7	97.0	96.4	100.0

A2.23. QA for John 12 with Text-Type MSS  
(Fractional Agreement)

05s	166/166	P66s	01s	P75s	03s	04s	032s	038s	£1s	£13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
P66s	99/166	167/167	167/167	153/153	167/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
01s	92/166	122/167	153/153	167/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
P75s	92/152	110/153	125/153	153/153	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
03s	93/166	126/167	146/167	140/153	167/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
04s	0/	0/	0/	0/	0/	0	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
032s	100/166	119/167	134/167	124/153	136/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
038s	111/166	98/167	103/167	104/153	109/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
£1s	97/166	108/167	123/167	113/153	139/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
£13s	92/166	94/167	99/167	94/153	97/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
565x	95/166	102/167	124/167	111/153	116/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
02s	102/166	108/167	127/167	121/153	127/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
041s	105/166	110/167	122/167	115/153	118/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
045s	99/166	109/167	121/167	119/153	121/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
10y	93/166	102/167	113/167	113/153	111/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
157x	102/166	109/167	125/167	122/153	125/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
1194f	95/166	104/167	113/167	112/153	113/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
1202f	96/166	105/167	117/167	110/153	115/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
1220x	98/166	108/167	122/167	113/153	118/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
1222x	99/166	106/167	117/167	116/153	117/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
1237f	96/166	105/167	117/167	110/153	115/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
1342y	99/166	106/167	114/167	112/153	112/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
1458f	97/166	104/167	116/167	113/153	114/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167
TR	101/166	108/167	118/167	115/153	118/167	0/	0	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167	167/167

A2.24. QA for John 12 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	59.6	100.0																							
01s	55.4	73.1	100.0																						
P75s	60.5	71.9	81.7	100.0																					
03s	56.0	75.4	87.4	91.5	100.0																				
04s						100.0																			
032s	60.2	71.3	80.2	81.0	81.4		100.0																		
038s	66.9	58.7	61.7	68.0	65.3		63.5	100.0																	
f1s	58.4	64.7	73.7	73.9	71.3		72.5	69.5	100.0																
f13s	55.4	56.3	59.3	61.4	58.1		60.5	71.3	73.7	100.0															
565x	57.2	61.1	74.3	72.5	69.5		71.9	68.3	94.0	70.1	100.0														
02s	61.4	64.7	76.0	79.1	76.0		73.7	68.9	83.8	71.9	79.0	100.0													
041s	63.3	65.9	73.1	75.2	70.7		70.7	67.7	83.2	71.3	78.4	86.2	83.8	100.0											
045s	59.6	65.3	72.5	77.8	72.5		68.9	63.5	79.0	64.7	76.6	80.2	77.8	88.0	100.0										
10y	56.0	61.1	67.7	73.9	66.5		75.4	68.9	77.2	70.1	77.2	81.4	80.8	78.4	73.7	100.0									
157x	61.4	65.3	74.9	79.7	74.9		70.1	65.3	80.2	67.1	76.6	82.6	80.2	90.4	97.0	76.0	100.0								
1194f	57.2	62.3	67.7	73.2	67.7		71.3	67.1	83.2	71.9	79.6	84.4	83.2	91.0	89.8	76.6	91.6	100.0							
1202f	57.8	62.9	70.1	71.9	68.9		71.3	65.9	80.8	73.1	78.4	85.0	85.0	85.6	83.8	79.6	86.2	89.2	100.0						
1220x	59.0	64.7	73.1	73.9	70.7		71.3	68.9	82.6	71.3	77.8	85.0	83.8	95.2	91.6	77.2	93.4	94.6	87.4	100.0					
1222x	59.6	63.5	70.1	75.8	70.1		71.3	68.9	82.6	71.3	77.8	85.0	83.8	95.2	91.6	77.2	93.4	94.6	87.4	100.0					
1237f	57.8	62.9	70.1	71.9	68.9		70.1	67.1	81.4	78.4	77.8	83.2	82.0	89.8	89.8	77.8	91.6	96.4	89.2	100.0					
1242y	59.6	63.5	68.3	73.2	67.1		70.1	68.9	82.6	71.3	77.2	85.0	83.8	92.8	90.4	79.6	92.8	94.6	89.8	95.2	93.4	84.4	82.6	100.0	
1342y	58.4	62.3	69.5	73.9	68.3		70.7	68.9	82.6	71.3	77.2	85.0	80.8	89.8	91.0	75.4	91.6	94.0	85.6	94.6	91.6	81.4	84.4	100.0	
1458f	57.8	61.7	67.7	70.6	65.3		68.9	65.9	79.6	68.3	77.2	82.0	80.8	89.8	91.0	75.4	91.6	94.0	85.6	94.6	91.6	81.4	84.4	100.0	
TR	60.8	64.7	70.7	75.2	70.7		71.9	71.3	83.8	73.7	80.2	86.2	85.0	94.0	89.2	79.6	91.6	95.8	89.8	96.4	93.4	86.8	86.8	97.6	100.0

A2.25. QA for John 13 with Text-Type MSS  
(Fractional Agreement)

035	036	015	035	045	025	038s	038s	015	035	045	025	041s	045s	10y	157x	1194f	1202f	1220k	1222x	1237f	1242y	1342y	1458f	TR	
055	128/128																								
P66s	68/128	128/128																							
01s	64/128	90/128	128/128																						
F75s	10/ 25	15/ 25	17/ 25																						
03s	61/128	92/128	93/128																						
04s	61/110	72/110	70/110																						
032s	73/128	95/128	19/ 25	8	59/110	110/110	128/128																		
038s	78/128	83/128	86/128	22/ 25	74/128	73/110	96/128	128/128																	
01s	76/128	83/128	83/128	20/ 25	66/128	69/110	98/128	108/128	128/128																
013s	75/127	75/127	81/127	17/ 25	66/127	68/110	86/127	97/127	95/127	127/127															
056sx	36/ 63	34/ 63	40/ 63	2/ 3	33/ 63	34/ 60	45/ 63	51/ 63	58/ 63	67/ 62	63/ 63	67/ 62	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63	63/ 63
02s	71/126	86/126	87/126	19/ 25	75/126	75/108	95/126	107/126	104/126	104/126															
041s	79/128	86/128	88/128	21/ 25	73/128	78/110	94/128	109/128	104/128	98/127															
045s	75/128	84/128	78/128	21/ 25	71/128	68/110	94/128	108/128	102/128	98/127															
10y	71/128	81/128	76/128	24/ 25	73/128	78/110	92/127	108/127	102/127	102/127															
157x	64/127	78/127	85/127	18/ 24	79/127	70/110	95/128	110/128	105/128	100/127															
1194f	73/128	81/128	79/128	23/ 25	70/128	72/110	92/128	110/128	103/128	100/127															
1202f	75/128	82/128	88/128	23/ 25	72/128	69/110	94/128	114/128	109/128	101/127															
1220k	75/128	82/128	80/128	23/ 25	71/128	75/110	96/128	119/128	109/128	100/127															
1222x	77/128	82/128	81/128	24/ 25	72/128	73/110	95/128	112/128	109/128	101/127															
1237f	75/128	83/128	81/128	24/ 25	71/128	71/110	95/128	112/128	109/128	101/127															
1242y	78/128	83/128	80/128	24/ 25	70/128	70/110	96/128	114/128	108/128	101/127															
1342y	77/128	81/128	79/128	24/ 25	70/128	69/110	93/128	111/128	106/128	97/127															
1458f	74/128	78/128	81/128	24/ 25	74/128	73/110	98/128	115/128	110/128	97/127															
TR	78/128	85/128	81/128	24/ 25	74/128	73/110	98/128	115/128	110/128	97/127															

A2.26. QA For John 13 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	fls	fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	53.1	100.0																							
01s	50.0	70.3	100.0																						
P75s	40.0	60.0	68.0	100.0																					
03s	47.7	71.9	66.4	60.0	100.0																				
04s	55.5	65.5	63.6	37.5	84.5	100.0																			
032s	57.0	74.2	71.1	76.0	70.3	71.8	100.0																		
038s	60.9	64.8	67.2	88.0	57.8	66.4	75.0	100.0																	
fls	59.4	64.8	64.8	80.0	58.6	62.7	76.6	82.8	100.0																
fl3s	59.1	59.1	63.8	68.0	52.0	61.8	67.7	76.4	74.8	100.0															
565x	57.1	54.0	63.5	66.7	52.4	56.7	71.4	84.9	80.2	75.6	79.4	82.5	100.0												
02s	56.3	68.3	69.0	76.0	59.5	69.4	75.4	84.9	80.2	75.6	79.4	81.0	85.2	100.0											
041s	61.7	67.2	68.8	84.0	60.2	70.9	75.8	85.2	81.2	76.4	79.4	81.0	85.2	100.0											
045s	58.6	65.6	60.9	84.0	57.0	68.2	73.4	86.7	81.2	76.4	79.4	81.0	85.2	100.0											
10y	55.5	63.3	59.4	96.0	55.5	61.8	71.9	84.4	82.0	77.2	73.0	80.2	82.8	89.8	100.0										
157x	50.4	61.4	66.9	75.0	62.2	71.6	72.4	76.4	70.9	80.2	69.4	73.6	70.9	73.2	75.6	100.0									
1194f	57.0	64.1	59.4	96.0	57.0	63.6	74.2	85.9	82.0	75.6	76.2	80.2	82.8	93.0	96.9	75.6	100.0								
1202f	58.6	63.3	61.7	92.0	54.7	64.5	71.9	85.9	80.5	78.7	74.6	84.9	86.7	85.9	88.3	75.6	88.3	100.0							
1220x	58.6	64.1	68.8	92.0	56.2	62.7	73.4	89.1	85.2	79.5	79.4	81.7	84.4	94.5	93.8	77.2	95.3	93.8	100.0						
1222x	60.2	66.4	62.5	92.0	58.6	68.2	75.0	89.1	85.2	79.5	79.4	81.7	84.4	94.5	93.8	76.4	96.1	89.1	96.1	100.0					
1237f	58.6	64.1	63.3	96.0	56.2	66.4	72.7	88.3	82.8	79.5	79.4	84.1	86.7	91.4	90.6	74.0	92.2	90.6	89.8	93.8	91.4	100.0			
1242y	60.9	64.8	62.5	84.0	55.5	64.5	74.2	87.5	85.2	77.2	79.4	81.7	84.4	91.4	90.6	74.0	92.2	90.6	89.8	93.8	91.4	100.0			
1342y	60.2	63.3	64.1	96.0	54.7	63.6	75.0	89.1	84.4	75.6	76.2	83.3	85.9	93.0	91.4	74.0	94.5	92.2	94.5	94.5	93.0	100.0			
1458f	57.8	60.9	61.7	96.0	54.7	62.7	72.7	86.7	82.8	76.4	81.0	82.5	83.6	90.6	93.0	74.8	93.0	94.5	87.5	93.0	93.0	100.0			
TR	60.9	66.4	63.3	96.0	57.8	66.4	76.6	89.8	85.9	76.4	79.4	82.5	85.2	95.3	93.0	74.8	96.1	94.5	90.6	97.7	95.3	96.1	96.9	93.8	100.0



A2.27. QA for John 14 with Text-Type MSS  
(Fractional Agreement)

	05s	Pe6s	01s	P75s	03s	04s	032s	038s	£1s	£13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
05s	101/101	91/ 91	101/101	68/ 68	101/101	30/ 30	86/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	TR
P66s	59/ 91	69/ 62	55/ 68	4/ 4	28/ 30	24/ 30	64/ 86	78/ 97	74/ 97	73/ 96	90/101	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
01s	65/101	46/ 62	55/ 68	61/ 68	101/101	30/ 30	86/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
P75s	38/ 68	70/ 91	81/101	4/ 4	28/ 30	24/ 30	64/ 86	78/ 97	74/ 97	73/ 96	90/101	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
03s	60/101	21/ 30	23/ 30	4/ 4	28/ 30	24/ 30	64/ 86	78/ 97	74/ 97	73/ 96	90/101	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
04s	18/ 30	21/ 30	23/ 30	4/ 4	28/ 30	24/ 30	64/ 86	78/ 97	74/ 97	73/ 96	90/101	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
032s	58/ 86	64/ 85	70/ 86	41/ 58	62/ 86	21/ 30	64/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
038s	64/101	63/ 91	72/101	43/ 68	68/101	21/ 30	64/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
£1s	60/ 97	63/ 81	70/ 97	43/ 68	68/ 97	21/ 30	64/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
£13s	54/101	60/ 91	70/101	41/ 68	61/101	21/ 30	64/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
565x	61/ 96	63/ 86	68/ 96	41/ 64	68/ 96	21/ 30	64/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
02s	65/101	63/ 91	74/101	50/ 68	73/101	21/ 30	64/ 86	101/101	97/ 97	101/101	96/ 96	101/101	101/101	101/101	101/101	100/100	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	101/101	
041s	64/101	64/ 91	76/101	48/ 68	69/101	22/ 30	62/ 86	88/101	78/ 97	83/101	72/ 96	87/101	88/101	88/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	
045s	58/101	63/ 91	75/101	49/ 68	68/101	22/ 30	62/ 86	90/101	77/ 97	81/101	78/ 96	87/101	88/101	88/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	
10y	60/101	65/ 91	73/101	49/ 68	66/101	21/ 30	62/ 86	90/101	79/ 97	81/101	78/ 96	87/101	88/101	85/100	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	
157x	60/100	58/ 90	75/100	45/ 68	64/100	19/ 29	59/ 85	85/100	75/ 96	76/100	72/ 95	83/100	88/100	85/100	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	87/101	
1194f	60/101	63/ 91	75/101	50/ 68	68/101	21/ 30	64/ 86	92/101	77/ 97	83/101	76/ 95	89/101	90/101	90/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	
1202f	55/101	60/ 91	68/101	49/ 68	61/101	22/ 30	61/ 86	84/101	81/ 97	86/101	73/ 96	82/101	87/101	90/101	90/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	
1220x	65/101	63/ 91	76/101	49/ 68	69/101	22/ 30	61/ 86	90/101	81/ 97	86/101	76/ 95	88/101	89/101	90/101	90/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	
1222x	61/101	66/ 91	76/101	53/ 68	71/101	22/ 30	65/ 86	93/101	80/ 97	82/101	75/ 96	88/101	89/101	90/101	90/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	
1237f	61/101	64/ 91	72/101	47/ 68	65/101	22/ 30	62/ 86	90/101	80/ 97	80/101	79/ 96	88/101	89/101	90/101	90/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	
1242y	60/101	64/ 91	75/101	49/ 68	68/101	23/ 30	60/ 86	90/101	76/ 97	85/101	73/ 96	89/101	89/101	90/101	90/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	92/101	
1342y	58/101	64/ 91	73/101	49/ 68	68/101	22/ 30	59/ 86	89/101	76/ 97	82/101	71/ 96	86/101	89/101	91/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	
1458f	61/101	64/ 91	74/101	51/ 68	69/101	22/ 30	61/ 86	91/101	77/ 97	82/101	74/ 96	89/101	90/101	91/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	94/101	
TR	60/101	63/ 91	73/101	50/ 68	68/101	23/ 30	61/ 86	90/101	77/ 97	84/101	74/ 96	89/101	90/101	93/101	93/101	93/101	93/101	93/101	93/101	93/101	93/101	93/101	93/101	93/101	93/101	

A2.28. QA for John 14 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
05s	100.0																										
P66s	64.8	100.0																									
01s	64.4	75.8	100.0																								
P75s	55.9	74.2	80.9	100.0																							
03s	59.4	76.9	80.2	89.7	100.0																						
04s	60.0	70.0	76.7	100.0	93.3	100.0																					
032s	67.4	75.3	81.4	70.7	72.1	80.0	100.0																				
038s	63.4	69.2	71.3	72.1	67.3	70.0	74.4	100.0																			
f1s	61.9	74.7	72.2	67.2	70.1	70.0	68.3	80.4	100.0																		
f13s	53.5	65.9	69.3	60.3	60.4	70.0	68.6	78.2	76.3	100.0																	
565x	63.5	73.3	70.8	64.1	70.8	70.0	71.6	78.1	94.8	76.0	100.0																
02s	64.4	69.2	73.3	73.5	72.3	70.0	72.1	89.1	77.3	75.2	77.1	100.0															
041s	63.4	70.3	75.2	70.6	68.3	73.3	72.1	87.1	80.4	82.2	78.1	89.1	100.0														
045s	57.4	69.2	74.3	72.1	67.3	70.0	72.1	89.1	79.4	80.2	75.0	86.1	87.1	92.1	100.0												
10y	59.4	71.4	72.3	72.1	65.3	70.0	72.1	89.1	81.4	80.2	81.2	86.1	87.1	92.1	100.0												
157x	59.4	64.4	70.0	66.2	64.0	65.5	69.4	85.0	78.1	76.0	75.8	83.0	88.0	85.0	87.0	100.0											
1194f	59.4	69.2	74.3	73.5	67.3	70.0	74.4	91.1	79.4	82.2	79.2	88.1	89.1	94.1	96.0	87.0	100.0										
1202f	54.5	65.9	67.3	63.2	60.4	70.0	65.1	83.2	78.4	73.2	76.0	81.2	86.1	89.1	91.1	82.0	89.1	100.0									
1220x	64.4	69.2	75.2	72.1	68.3	73.3	70.9	89.1	83.5	79.2	79.2	87.1	93.1	91.1	89.1	88.0	91.1	88.1	100.0								
1222x	60.4	72.5	75.2	77.9	70.3	73.3	75.6	92.1	88.1	81.2	78.1	89.1	88.1	93.1	95.0	86.0	97.0	91.1	88.1	90.1	100.0						
1237f	60.4	70.3	71.3	69.1	64.4	73.3	72.1	89.1	82.5	79.2	82.3	87.1	90.1	91.1	97.0	88.0	95.0	94.1	89.1	92.1	94.1	100.0					
1242y	59.4	70.3	74.3	72.1	67.3	73.3	76.7	89.1	78.4	84.2	76.0	88.1	89.1	92.1	92.1	85.0	94.1	89.1	91.1	91.1	95.0	100.0					
1342y	57.4	67.0	72.3	72.1	65.3	73.3	68.6	88.1	78.4	81.2	74.0	85.1	88.1	89.1	87.1	83.0	89.1	85.1	91.1	91.1	90.1	89.1	95.0	100.0			
1458f	60.4	70.3	73.3	75.0	68.3	73.3	70.9	90.1	79.4	81.2	77.1	89.1	90.1	93.1	93.1	86.0	95.0	90.1	92.1	92.1	96.0	94.1	97.0	92.1	100.0		
TR	59.4	69.2	72.3	73.5	67.3	76.7	70.9	89.1	79.4	83.2	77.1	88.1	89.1	92.1	92.1	85.0	94.1	89.1	91.1	91.1	95.0	93.1	98.0	95.0	97.0	100.0	

A2.29. QA for John 15 with Text-Type MSS  
(Fractional Agreement)

	05a	P66a	01a	P75a	03a	04a	032a	038a	f1a	f13a	565x	02a	041a	045a	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05b	64/64	46/46	65/65	0/0	0/0	0/0	0/0	0/0	65/65																
P66b	26/45	35/46	0/0	0/0	0/0	0/0	0/0	0/0	0/0																
01b	29/64	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0																
P75b	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0																
03b	31/64	35/46	47/65	0/0	0/0	0/0	0/0	0/0	0/0																
04b	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0																
032b	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0																
038b	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0																
f1b	37/64	34/46	46/65	0/0	0/0	0/0	0/0	0/0	0/0																
f13b	29/64	28/46	41/65	0/0	0/0	0/0	0/0	0/0	0/0																
565x	34/64	32/46	43/65	0/0	0/0	0/0	0/0	0/0	0/0																
02a	31/64	32/46	44/65	0/0	0/0	0/0	0/0	0/0	0/0																
041a	34/64	32/46	45/65	0/0	0/0	0/0	0/0	0/0	0/0																
045a	30/64	30/46	43/65	0/0	0/0	0/0	0/0	0/0	0/0																
10y	30/64	28/46	42/65	0/0	0/0	0/0	0/0	0/0	0/0																
157x	28/64	30/46	44/65	0/0	0/0	0/0	0/0	0/0	0/0																
1194f	29/64	30/46	43/65	0/0	0/0	0/0	0/0	0/0	0/0																
1202f	30/64	29/46	42/65	0/0	0/0	0/0	0/0	0/0	0/0																
1220x	33/64	31/46	46/65	0/0	0/0	0/0	0/0	0/0	0/0																
1222x	30/64	31/46	45/65	0/0	0/0	0/0	0/0	0/0	0/0																
1237f	28/64	30/46	42/65	0/0	0/0	0/0	0/0	0/0	0/0																
1242y	30/64	30/46	43/65	0/0	0/0	0/0	0/0	0/0	0/0																
1342y	31/64	30/46	44/65	0/0	0/0	0/0	0/0	0/0	0/0																
1458f	30/64	31/46	43/65	0/0	0/0	0/0	0/0	0/0	0/0																
TR	31/64	31/46	44/65	0/0	0/0	0/0	0/0	0/0	0/0																

A2.30. QA for John 15 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
05s	100.0																									
P66s	57.8	100.0																								
01s	45.3	76.1	100.0																							
P75s	-	-	-	100.0																						
03s	48.4	76.1	72.3	-	100.0																					
04s	-	-	-	-	-	100.0																				
032s	-	-	-	-	-	-	100.0																			
038s	51.6	73.9	70.8	-	81.5	-	100.0																			
f1s	57.8	73.9	69.2	-	86.2	-	87.7	100.0																		
f13s	45.3	60.9	63.1	-	69.2	-	78.5	80.0	100.0																	
565x	53.1	69.6	66.2	-	78.5	-	83.1	92.3	83.1	100.0																
02s	48.4	69.6	67.7	-	81.5	-	87.7	84.6	83.1	84.6	100.0															
041s	53.1	69.6	69.2	-	80.0	-	92.3	89.2	84.6	86.2	92.3	100.0														
045s	46.9	65.2	66.2	-	73.8	-	86.2	80.0	81.5	80.0	92.3	90.8	100.0													
10y	46.9	60.9	64.6	-	72.3	-	86.2	78.5	81.5	78.5	87.7	89.2	89.2	100.0												
157x	43.8	65.2	67.7	-	76.9	-	86.2	80.0	80.0	76.9	89.2	90.8	89.2	84.6	100.0											
1194f	45.3	65.2	66.2	-	73.8	-	86.2	80.0	81.5	80.0	92.3	90.8	89.2	84.6	100.0											
1202f	46.9	63.0	64.6	-	69.2	-	81.5	78.5	80.0	78.5	87.7	89.2	89.2	90.8	84.6	100.0										
1220x	51.6	67.4	70.8	-	78.5	-	89.2	84.6	81.5	81.5	87.7	92.3	93.8	92.3	89.2	87.7	89.2	100.0								
1222x	46.9	67.4	69.2	-	73.8	-	86.2	83.1	84.6	83.1	92.3	93.8	92.3	90.8	87.7	89.2	96.9	92.3	89.2	100.0						
1237f	43.8	65.2	64.6	-	72.3	-	84.6	78.5	80.0	78.5	89.2	89.2	93.8	89.2	92.3	89.2	95.4	96.9	92.3	100.0						
1242y	46.9	65.2	66.2	-	76.9	-	86.2	83.1	81.5	80.0	92.3	90.8	89.2	92.3	92.3	90.8	93.8	89.2	89.2	93.8	100.0					
1342y	48.4	65.2	67.7	-	75.4	-	84.6	81.5	83.1	81.5	90.8	90.8	92.3	92.3	90.8	90.8	92.3	90.8	90.8	92.3	100.0					
1458f	46.9	67.4	66.2	-	73.8	-	86.2	80.0	81.5	80.0	92.3	90.8	89.2	89.2	93.8	89.2	93.8	89.2	89.2	93.8	92.3	100.0				
TR	48.4	67.4	67.7	-	75.4	-	87.7	81.5	83.1	81.5	93.8	92.3	92.3	95.4	93.8	90.8	95.4	93.8	93.8	93.8	95.4	93.8	95.4	96.9	95.4	100.0

A2.31. QA for John 16 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	02s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
05s	102/102	43/ 43	01s	0/ 0	03s	40/ 40	02s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
P66s	30/ 43	31/ 42	100/100	0/ 0	103/103	37/ 40	87/ 87	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	
01s	60/ 99	0/ 0	0/ 0	0/ 0	69/103	26/ 40	57/ 87	83/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	
P75s	0/ 0	0/ 0	0/ 0	0/ 0	77/103	26/ 40	77/ 87	79/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	
03s	72/102	32/ 43	70/100	0/ 0	65/ 87	25/ 39	87/ 87	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	104/104	
04s	29/ 39	14/ 20	26/ 40	0/ 0	69/103	26/ 40	57/ 87	83/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	
032s	66/ 87	32/ 43	62/ 84	0/ 0	69/103	26/ 40	57/ 87	83/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	
038s	63/102	27/ 43	61/100	0/ 0	77/103	26/ 40	77/ 87	79/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	
f1s	71/102	26/ 43	60/100	0/ 0	69/103	26/ 40	57/ 87	83/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	85/104	
565x	61/102	27/ 43	60/100	0/ 0	71/103	27/ 40	84/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	
02s	64/102	27/ 43	64/100	0/ 0	74/103	25/ 40	59/ 87	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	
041s	60/102	27/ 43	59/100	0/ 0	70/103	27/ 40	55/ 87	84/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	
045s	62/102	26/ 43	60/100	0/ 0	70/103	27/ 40	55/ 87	84/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	
10y	63/102	25/ 43	60/100	0/ 0	71/103	27/ 40	56/ 87	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	
157x	63/102	29/ 43	59/100	0/ 0	67/103	27/ 40	56/ 87	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	86/104	
1194f	65/102	26/ 43	62/100	0/ 0	69/103	26/ 40	54/ 87	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	
1202f	63/102	25/ 43	63/100	0/ 0	69/103	26/ 40	54/ 87	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	83/104	
1220x	64/102	27/ 43	59/100	0/ 0	70/103	26/ 40	54/ 87	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	
1237f	62/102	25/ 43	60/100	0/ 0	68/103	26/ 40	54/ 87	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	82/104	
1242y	59/102	25/ 43	63/100	0/ 0	70/103	27/ 40	55/ 87	83/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	
1342y	63/102	26/ 43	60/100	0/ 0	69/103	26/ 40	53/ 87	80/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	79/104	
1458f	63/102	24/ 43	60/100	0/ 0	67/103	25/ 40	54/ 87	83/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	81/104	
TR	64/102	26/ 43	63/100	0/ 0	70/103	27/ 40	55/ 87	83/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	84/104	

A2.32. QA for John 16 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	69.8	100.0																							
01s	60.6	73.8	100.0																						
P75s	-	-	-	100.0																					
03s	70.6	74.4	70.0	92.5	100.0																				
04s	74.4	70.0	65.0	74.7	64.1	100.0																			
032s	75.9	74.4	73.8	67.0	65.0	65.0																			
038s	61.8	62.8	61.0	74.8	67.5	73.6	100.0																		
f1s	69.6	69.8	75.0	68.9	62.5	76.0	78.8	100.0																	
f13s	61.8	60.5	60.0	67.0	65.0	65.5	76.0	88.8	100.0																
565x	59.8	62.8	66.0	68.9	62.5	67.8	76.9	70.2	81.7	74.0	100.0														
02s	62.7	62.8	64.0	71.8	62.5	67.8	76.9	70.2	81.7	74.0	100.0														
041s	58.8	62.8	59.0	68.0	67.5	63.2	82.7	73.1	85.6	77.9	84.6	100.0													
045s	60.8	60.5	60.0	68.0	67.5	63.2	80.8	79.8	90.4	84.6	79.8	81.7	95.2	100.0											
10y	61.8	58.1	60.0	65.0	62.5	62.1	76.0	79.8	90.4	84.6	79.8	81.7	95.2	100.0											
157x	61.8	67.4	59.0	68.9	67.5	64.4	82.7	76.9	85.6	77.9	82.7	88.5	90.4	85.6	100.0										
1194f	63.7	60.5	62.0	65.0	67.5	62.1	76.9	79.8	89.4	80.8	82.7	85.6	94.2	84.6	100.0										
1202f	61.8	58.1	63.0	67.0	65.0	62.1	79.8	81.7	90.4	81.7	82.7	85.6	95.2	84.6	100.0										
1220x	62.7	62.8	59.0	68.0	65.0	67.8	79.8	76.0	87.5	82.7	84.6	87.5	92.3	88.5	88.5	91.3	100.0								
1222x	60.8	58.1	60.0	66.0	65.0	62.1	78.8	79.8	91.3	82.7	82.7	84.6	87.5	92.3	88.5	92.3	95.2	92.3	100.0						
1237f	62.7	60.5	63.0	68.0	67.5	63.2	79.8	80.8	90.4	81.7	82.7	85.6	95.2	89.4	86.5	88.5	94.2	98.1	91.3	95.2	100.0				
1242y	57.8	58.1	57.0	65.0	65.0	60.9	76.9	76.0	88.5	80.8	80.8	83.7	94.2	89.4	86.5	88.5	94.2	98.1	91.3	95.2	100.0				
1342y	63.7	65.1	60.0	67.0	62.5	67.8	79.8	77.9	86.5	79.8	81.7	82.7	91.3	88.5	86.5	88.5	94.2	93.3	87.5	90.4	93.3	89.4	100.0		
1458f	61.8	55.8	60.0	65.0	67.5	62.1	76.0	77.9	89.4	80.8	80.8	83.7	91.3	84.6	84.6	84.6	94.2	93.3	86.5	90.4	93.3	89.4	100.0		
TR	62.7	60.5	63.0	68.0	67.5	63.2	79.8	80.8	90.4	81.7	82.7	85.6	95.2	92.3	87.5	87.5	95.2	98.1	91.3	95.2	100.0	93.3	93.3	100.0	

A2.33. QA for John 17 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157k	1194f	1202f	1220k	1222x	1237f	1242y	1342y	1458f	TR	
05s	89/89	53/53	90/90	0/0	90/90	90/90	90/90	90/90	90/90	89/89	90/90	90/90	89/89	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	TR
P66s	28/53	41/53	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	
01s	49/89	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	
P75s	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	
03s	53/89	38/53	69/90	0/0	75/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	90/90	
04s	56/89	39/53	67/90	0/0	67/90	58/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	52/90	
032s	53/89	35/53	70/90	0/0	61/90	58/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	
038s	54/89	36/53	58/90	0/0	68/90	70/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	59/90	
f1s	54/89	43/53	67/90	0/0	59/89	65/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	53/89	
f13s	53/89	40/53	59/89	0/0	58/89	64/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	
565x	49/89	38/53	55/90	0/0	61/90	60/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	51/89	
02s	51/89	35/53	61/90	0/0	55/89	60/89	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	
041s	48/89	37/53	51/89	0/0	58/90	64/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	
045s	47/89	39/53	55/90	0/0	55/90	65/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	
10y	49/89	38/53	53/90	0/0	58/90	64/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	
157k	49/89	37/53	59/90	0/0	60/90	62/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	53/90	
1194f	44/89	36/53	52/90	0/0	54/90	62/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	
1202f	44/89	37/53	52/90	0/0	54/90	62/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	
1220k	48/88	37/52	53/89	0/0	53/89	57/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	46/89	
1222x	46/89	37/53	54/90	0/0	56/90	63/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	
1237f	44/89	36/53	52/90	0/0	56/90	62/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	46/90	
1242y	46/89	37/53	54/90	0/0	56/90	64/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	
1342y	46/89	37/53	55/90	0/0	61/90	59/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	
1458f	48/89	38/53	54/90	0/0	56/90	64/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	48/90	
TR	47/89	38/53	55/90	0/0	57/90	65/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	49/90	

A2.34. QA for John 17 with Text-Type MSS  
(Percentile Agreement)

	05S	P66S	01S	P75S	03S	04S	032S	038S	FlS	Fl3S	56Sx	02S	041S	045S	10Y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05S	100.0																								
P66S	52.8	100.0																							
01S	55.1	77.4	100.0																						
P75S				100.0																					
03S	59.6	71.7	76.7		100.0																				
04S	62.9	73.6	74.4		83.3	100.0																			
032S	59.6	66.0	77.8		74.4	76.7	100.0																		
038S	60.7	67.9	64.4		67.8	64.4	57.8	100.0																	
FlS	60.7	81.1	74.4		75.6	73.0	65.6	73.3	100.0																
Fl3S	59.6	75.5	66.3		66.3	73.0	59.6	79.8	82.0	100.0															
56Sx	55.1	71.7	61.1		64.4	71.1	54.4	77.8	80.0	86.5	100.0														
02S	57.3	66.0	67.8		61.8	67.4	65.6	74.4	70.8	82.0	75.3	85.4	100.0												
041S	53.9	69.8	57.3		61.1	72.2	54.4	76.7	76.7	87.6	87.8	75.6	78.7	100.0											
045S	52.8	73.6	61.1		64.4	71.1	54.4	75.6	75.6	88.8	86.7	78.9	79.8	90.0	100.0										
10Y	55.1	71.7	58.9		64.4	71.1	54.4	82.2	75.6	88.8	84.4	83.3	86.5	83.3	86.7	100.0									
157x	55.1	69.8	65.6		60.0	68.9	51.1	73.3	75.6	86.5	87.8	76.7	82.0	90.0	91.1	84.4	100.0								
1194f	49.4	67.9	57.8		60.0	68.9	51.1	73.3	75.6	86.5	87.8	74.4	79.8	90.0	91.1	84.4	97.8	100.0							
1202f	49.4	69.8	57.8		59.6	64.0	55.1	73.3	75.6	86.5	87.8	74.4	79.8	90.0	91.1	84.4	85.4	100.0							
1220x	54.5	71.2	59.6		63.3	70.0	53.3	76.7	76.7	89.9	91.1	75.6	78.7	91.1	94.4	90.0	94.4	88.8	100.0						
1222x	51.7	69.8	60.0		62.2	68.9	51.1	75.6	75.6	86.5	90.0	74.4	79.8	90.0	91.1	86.7	95.6	85.4	88.8	100.0					
1237f	49.4	67.9	57.8		62.2	71.1	55.6	75.6	75.6	88.8	87.8	76.7	79.8	92.2	93.3	86.7	95.6	87.6	87.6	96.7	95.6	100.0			
1242y	51.7	69.8	60.0		67.8	65.6	54.4	78.9	76.7	88.8	86.7	77.8	78.9	82.0	92.2	87.8	88.8	88.8	88.8	94.4	93.3	90.0	100.0		
1342y	51.7	69.8	61.1		62.2	71.1	53.3	77.8	75.6	88.8	86.7	78.9	82.0	92.2	93.3	88.9	95.6	88.8	88.8	94.4	93.3	95.6	87.8	100.0	
1458f	53.9	71.7	60.0		63.3	72.2	54.4	76.7	76.7	89.9	88.9	77.8	80.9	93.3	94.4	87.8	96.7	88.8	88.8	97.8	96.7	98.9	91.1	96.7	100.0
TR	52.8	71.7	61.1		63.3	72.2	54.4	76.7	76.7	89.9	88.9	77.8	80.9	93.3	94.4	87.8	96.7	88.8	88.8	97.8	96.7	98.9	91.1	96.7	100.0



A2.35. QA For John 18 with Text-Type MSS  
(Fractional Agreement)

05s	05t	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	41/ 41	P66s	121/121	01s	133/133																				
P66s	23/ 38		121/121		133/133																				
01s	25/ 41		81/121		133/133																				
P75s	0/ 0		0/ 0		0/ 0																				
03s	23/ 41		90/121		99/133																				
04s	21/ 41		74/100		74/111																				
032s	24/ 41		87/121		105/133																				
038s	24/ 41		92/121		89/133																				
f1s	24/ 41		86/121		91/133																				
f13s	22/ 41		82/121		86/133																				
565x	24/ 41		84/121		86/133																				
02s	20/ 41		91/121		93/133																				
041s	22/ 41		93/121		90/133																				
045s	21/ 41		95/121		91/133																				
10y	19/ 41		88/121		85/133																				
157x	21/ 41		88/121		85/133																				
1194f	19/ 41		90/121		85/133																				
1202f	19/ 41		87/121		82/133																				
1220x	22/ 41		94/121		88/133																				
1222x	15/ 41		91/121		82/133																				
1237f	19/ 41		91/121		87/133																				
1242y	22/ 41		92/121		82/133																				
1342y	20/ 41		89/121		88/133																				
1458f	19/ 41		89/121		84/133																				
TR	21/ 41		96/121		87/133																				

A2.36. QA for John 18 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	fls	fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	60.5	100.0																							
01s	61.0	66.9	100.0																						
P75s				100.0																					
03s	56.1	74.4	74.4		100.0																				
04s	51.2	74.0	66.7		86.5	100.0																			
032s	58.5	71.9	78.9		73.7	71.2	100.0																		
038s	58.5	76.0	66.9		66.2	73.0	66.2	100.0																	
fls	58.5	71.1	68.4		69.2	71.2	71.4	74.4	100.0																
fl3s	53.7	67.8	64.7		60.9	65.8	64.7	70.7	72.9	100.0															
565x	58.5	69.4	64.7		63.2	68.5	68.4	72.9	91.0	68.4	100.0														
02s	48.8	75.2	69.9		71.4	75.7	71.4	85.7	78.2	76.7	77.4	100.0													
041s	53.7	76.9	67.7		68.4	73.9	72.2	85.7	79.7	79.7	85.7	100.0													
045s	51.2	78.5	68.4		63.9	70.3	65.4	84.2	71.4	75.9	71.4	85.7	87.2	100.0											
10y	46.3	72.7	63.9		62.4	70.3	66.2	80.5	72.9	80.5	73.7	85.7	87.2	89.5	100.0										
157x	51.2	72.7	62.4		62.4	69.4	66.2	82.7	75.2	77.4	76.7	86.5	88.0	84.2	88.7	100.0									
1194f	46.3	74.4	63.9		50.9	69.4	64.7	82.0	71.4	78.9	71.4	84.2	87.2	91.0	94.0	88.7	100.0								
1202f	46.3	71.9	61.7		58.6	68.5	62.4	79.7	69.2	76.7	70.7	82.0	85.0	88.7	91.7	86.5	94.7	100.0							
1220x	53.7	77.7	66.2		66.9	71.2	68.4	83.5	72.9	80.5	72.9	82.7	85.7	86.5	85.0	84.2	86.5	84.2	100.0						
1222x	46.3	75.2	61.7		60.2	67.6	63.9	79.7	69.2	78.2	72.2	84.2	87.2	91.0	92.5	88.0	94.0	91.7	89.5	85.7	100.0				
1237f	46.3	75.2	65.4		61.7	69.4	65.4	82.7	72.2	78.9	72.2	84.2	81.2	83.5	83.5	78.2	83.5	85.0	82.7	85.7	100.0				
1242y	53.7	76.0	61.7		62.4	64.9	67.7	76.7	68.4	75.2	66.9	78.2	81.2	83.5	83.5	78.2	83.5	85.0	82.7	85.7	100.0				
1342y	48.8	73.6	66.2		62.4	69.4	65.4	83.5	72.9	78.9	72.9	82.7	87.2	86.5	86.5	83.5	86.5	84.2	84.2	87.2	100.0				
1458f	46.3	73.6	63.2		61.7	68.5	63.9	79.7	69.2	79.7	69.2	82.0	85.0	88.7	94.0	87.2	94.0	91.7	89.5	91.7	100.0				
TR	51.2	79.3	65.4		62.4	69.4	64.7	83.5	75.9	82.0	74.4	85.7	88.7	94.0	92.5	87.2	94.0	91.7	89.5	91.7	100.0				

A2.37. QA for John 19 with Text-Type MSS  
(Fractional Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	0/ 0																								
P66s	0/ 0	154/154																							
01s	0/ 0	98/152	158/158																						
P75s	0/ 0	0/ 0	0/ 0	0/ 0																					
03s	0/ 0	121/154	115/158	0/ 0	160/160																				
04s	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0																			
032s	0/ 0	113/154	122/158	0/ 0	122/160	0/ 0	160/160																		
038s	0/ 0	95/154	87/158	0/ 0	99/160	0/ 0	93/160	160/160																	
f1s	0/ 0	104/154	99/158	0/ 0	107/160	0/ 0	112/160	106/160	160/160																
f13s	0/ 0	88/153	91/158	0/ 0	94/159	0/ 0	98/159	112/159	110/159	159/159															
565x	0/ 0	93/150	92/154	0/ 0	95/156	0/ 0	99/156	98/156	137/156	102/155	156/156														
02s	0/ 0	106/154	97/158	0/ 0	113/160	0/ 0	100/160	119/160	107/160	107/159	95/156	160/160													
041s	0/ 0	105/154	95/158	0/ 0	112/160	0/ 0	101/160	128/160	113/160	110/159	106/156	131/160	160/160												
045s	0/ 0	94/154	85/158	0/ 0	96/160	0/ 0	95/160	126/160	106/160	113/159	107/156	122/160	131/160	160/160											
10y	0/ 0	90/154	83/158	0/ 0	93/160	0/ 0	90/160	118/160	106/160	119/159	105/156	122/160	127/160	135/160	160/160										
157x	0/ 0	99/154	89/158	0/ 0	103/160	0/ 0	94/160	122/160	116/160	111/159	106/156	126/160	129/160	128/160	127/160	160/160									
1194f	0/ 0	90/154	81/158	0/ 0	96/160	0/ 0	95/160	114/160	106/160	113/159	100/156	120/160	123/160	133/160	149/160	123/160	160/160								
1202f	0/ 0	93/154	84/158	0/ 0	98/160	0/ 0	94/160	119/160	113/160	112/159	107/156	122/160	127/160	138/160	133/160	128/160	139/160	160/160							
1220x	0/ 0	94/154	88/158	0/ 0	103/160	0/ 0	96/160	125/160	112/160	111/159	102/156	127/160	132/160	133/160	129/160	138/160	129/160	132/160	160/160						
1222x	0/ 0	101/154	85/158	0/ 0	102/160	0/ 0	99/160	122/160	114/160	120/159	107/156	126/160	131/160	142/160	143/160	127/160	143/160	136/160	131/160	160/160					
1237f	0/ 0	95/154	84/158	0/ 0	97/160	0/ 0	94/160	118/160	115/160	115/159	110/156	122/160	127/160	137/160	138/160	128/160	142/160	146/160	130/160	139/160	160/160				
1242y	0/ 0	99/154	90/158	0/ 0	100/160	0/ 0	99/160	119/160	115/160	119/159	107/156	119/160	123/160	122/160	127/160	119/160	127/160	126/160	123/160	132/160	127/160	160/160			
1342y	0/ 0	93/154	89/158	0/ 0	94/160	0/ 0	95/160	123/160	112/160	113/159	111/156	119/160	129/160	138/160	126/160	126/160	124/160	135/160	130/160	134/160	133/160	122/160	160/160		
1458f	0/ 0	88/154	77/158	0/ 0	90/160	0/ 0	89/160	116/160	102/160	113/159	100/156	118/160	123/160	143/160	146/160	126/160	146/160	141/160	129/160	141/160	140/160	125/160	130/160	160/160	
TR	0/ 0	105/154	91/158	0/ 0	103/160	0/ 0	108/160	127/160	121/160	120/159	113/156	129/160	132/160	145/160	137/160	130/160	139/160	140/160	134/160	149/160	143/160	133/160	143/160	141/160	160/160

A2.38. QA for John 19 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	fls	fl3s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P66s	-	-	64.5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P75s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03s	-	-	78.6	72.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032s	-	-	73.4	77.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
038s	-	-	61.7	55.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
fls	-	-	67.5	62.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
fl3s	-	-	57.5	57.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
565x	-	-	62.0	59.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02s	-	-	68.8	61.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
041s	-	-	68.2	60.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
045s	-	-	61.0	53.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10y	-	-	58.4	52.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
157x	-	-	64.3	56.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1194f	-	-	58.4	51.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1202f	-	-	60.4	53.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1220x	-	-	61.0	55.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1222x	-	-	65.6	53.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1237f	-	-	61.7	53.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1242y	-	-	64.3	57.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1342y	-	-	60.4	56.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1458f	-	-	57.1	48.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TR	-	-	68.2	57.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

A2.39. QA For John 20 with Text-Type MSS  
(Fractional Agreement)

05s	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
P66s	14/23	31/31	76/76																						
01s	29/62	20/29	0/0	0/0	0/0	12/16	81/81																		
P75s	0/0	0/0	0/0	0/0	0/0	16/16	81/81																		
03s	29/62	24/31	54/76	0/0	81/81																				
04s	13/16	8/8	11/16	0/0	12/16	16/16	81/81																		
032s	32/62	24/31	60/76	0/0	63/81	13/16	81/81																		
038s	29/62	22/31	45/76	0/0	57/81	14/16	58/81																		
f1s	25/62	25/31	47/76	0/0	52/81	12/16	57/81																		
565x	21/60	22/29	44/74	0/0	50/79	9/15	53/79																		
02s	30/62	21/31	45/76	0/0	58/81	12/16	55/81																		
041s	28/62	24/31	43/76	0/0	57/81	13/16	60/81																		
045s	28/62	24/31	43/76	0/0	57/81	13/16	60/81																		
10y	27/62	23/31	46/76	0/0	58/81	13/16	60/81																		
1194f	30/62	23/31	46/76	0/0	58/81	13/16	60/81																		
1202f	27/62	23/31	44/76	0/0	56/81	14/16	61/81																		
1220x	26/62	21/31	42/76	0/0	53/81	12/16	58/81																		
1222x	26/62	23/31	43/76	0/0	53/81	12/16	58/81																		
1237f	27/62	24/31	45/76	0/0	54/81	13/16	60/81																		
1242y	27/62	23/31	43/76	0/0	54/81	13/16	60/81																		
1342y	25/62	23/31	43/76	0/0	53/81	12/16	58/81																		
1458f	28/62	24/31	44/76	0/0	56/81	14/16	61/81																		
TR	24/62	21/31	41/76	0/0	51/81	11/16	56/81																		

A2.40. QA for John 20 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	60.9	100.0																							
01s	46.8	69.0	100.0																						
P75s				100.0																					
03s	46.8	77.4	71.1		100.0																				
04s	81.2	100.0	68.8		75.0	100.0																			
032s	51.6	77.4	78.9		77.8	81.2	100.0																		
038s	46.8	71.0	59.2		70.4	87.5	71.6	100.0																	
f1s	40.3	80.6	61.8		64.2	75.0	69.1	71.6	100.0																
f13s	40.3	67.7	55.3		64.2	75.0	70.4	84.0	72.8	100.0															
565x	35.0	75.9	59.5		63.3	60.0	67.1	72.2	88.6	72.2	100.0														
02s	48.4	67.7	59.2		71.6	75.0	67.9	70.4	65.4	72.8	80.2	77.2	75.3	100.0											
041s	45.2	77.4	59.2		70.4	81.2	74.1	87.7	74.1	86.4	78.5	79.0	93.8	100.0											
045s	45.2	77.4	56.6		70.4	81.2	74.1	87.7	74.1	86.4	78.5	79.0	88.9	92.6	100.0										
10y	43.5	74.2	60.5		67.9	81.2	75.3	90.1	76.5	88.9	79.7	76.5	88.9	92.6	100.0										
157x	48.4	74.2	60.5		72.8	81.2	75.3	90.1	76.5	88.9	79.7	76.5	88.9	92.6	100.0										
1194f	43.5	77.4	57.9		67.9	81.2	74.1	85.2	74.1	86.4	79.7	76.5	88.9	92.6	100.0										
1202f	43.5	80.6	57.9		69.1	87.5	75.3	86.4	72.8	87.7	75.9	75.3	87.7	93.8	91.4	88.9	91.4	92.6	100.0						
1220x	41.9	67.7	55.3		69.1	81.2	72.8	84.0	70.4	87.7	75.9	77.8	87.7	93.8	91.4	88.9	91.4	92.6	100.0						
1222x	41.9	74.2	56.6		65.4	75.0	71.6	85.2	71.6	86.4	81.0	76.5	88.9	92.6	92.6	90.1	92.6	91.4	91.4	100.0					
1237f	43.5	77.4	59.2		67.9	81.2	74.1	85.2	74.1	86.4	81.0	76.5	88.9	92.6	92.6	90.1	92.6	93.8	91.4	95.1	100.0				
1242y	43.5	74.2	56.6		66.7	87.5	72.8	86.4	72.8	86.4	79.7	75.3	87.7	93.8	93.8	91.4	93.8	95.1	95.1	93.8	100.0				
1342y	40.3	74.2	56.6		65.4	75.0	71.6	87.7	71.6	86.4	79.7	71.6	84.0	90.1	96.3	93.8	93.8	95.1	95.1	96.3	96.3	97.5	91.4	100.0	
1458f	45.2	77.4	57.9		69.1	87.5	75.3	88.9	75.3	90.1	79.7	77.8	90.1	96.3	93.8	93.8	93.8	95.1	95.1	96.3	96.3	97.5	91.4	100.0	
TR	38.7	67.7	53.9		63.0	68.8	69.1	82.7	69.1	84.0	81.0	71.6	86.4	92.6	87.7	87.7	90.1	88.9	91.4	95.1	92.6	91.4	95.1	93.8	100.0

A2.41. QA For John 21 with Text-Type MSS  
(Fractional Agreement)

05s	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	86/86	4/4	2/2	2/2	86/86	86/86	86/86	86/86	85/85	86/86	86/86	86/86	69/69	86/86	86/86	86/86	86/86	86/86	86/86	86/86	86/86	86/86	86/86	86/86	TR
P66s	3/4	3/4	2/2	2/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	TR
01s	46/82	2/2	2/2	2/2	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	46/82	TR
P75s	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	TR
03s	52/86	2/2	2/2	2/2	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	TR
04s	53/86	2/2	2/2	2/2	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	TR
032s	50/86	2/2	2/2	2/2	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	TR
038s	49/86	2/2	2/2	2/2	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	49/86	TR
f1s	53/85	2/2	2/2	2/2	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	53/85	TR
f13s	48/86	3/4	2/2	2/2	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	TR
565x	50/86	3/4	2/2	2/2	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	TR
02s	53/86	2/2	2/2	2/2	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	53/86	TR
041s	43/69	2/2	2/2	2/2	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	43/69	TR
045s	51/86	3/4	2/2	2/2	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	TR
10y	45/86	3/4	2/2	2/2	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	TR
157x	45/86	3/4	2/2	2/2	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	TR
1194f	50/86	3/4	2/2	2/2	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	TR
1202f	47/86	3/4	2/2	2/2	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	47/86	TR
1220x	48/86	3/4	2/2	2/2	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	TR
1222x	52/86	3/4	2/2	2/2	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	52/86	TR
1237f	48/86	3/4	2/2	2/2	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	48/86	TR
1242y	51/86	3/4	2/2	2/2	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	51/86	TR
1342y	45/86	3/4	2/2	2/2	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	45/86	TR
1458f	45/81	1/3	2/2	2/2	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	45/81	TR
TR	50/86	3/4	2/2	2/2	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	50/86	TR

A2.42. QA for John 21 with Text-Type MSS  
(Percentile Agreement)

	05s	P66s	01s	P75s	03s	04s	032s	038s	f1s	f13s	565x	02s	041s	045s	10y	157x	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
05s	100.0																								
P66s	75.0	100.0																							
01s	56.1	75.0	100.0																						
P75s	100.0	100.0	100.0	100.0																					
03s	60.5	50.0	59.8	100.0	100.0																				
04s	61.6	50.0	63.4	100.0	84.9	100.0																			
032s	58.1	50.0	65.9	100.0	66.3	67.4	100.0																		
038s	57.0	50.0	58.5	100.0	61.6	59.3	58.1	100.0																	
f1s	62.4	50.0	58.0	100.0	62.4	57.6	61.2	72.9	100.0																
f13s	55.8	75.0	48.8	100.0	64.0	57.0	50.0	73.3	85.9	80.2	100.0														
565x	58.1	75.0	54.9	100.0	61.6	57.0	50.0	73.3	85.9	80.2	100.0														
02s	61.6	50.0	58.5	100.0	67.4	61.6	61.6	76.7	76.5	81.4	73.3	100.0													
041s	59.4	50.0	53.6	100.0	73.9	65.2	53.6	76.8	79.4	87.0	78.3	84.1	100.0												
045s	59.3	75.0	51.2	100.0	66.3	61.6	52.3	77.9	75.3	94.2	81.4	86.0	89.9	100.0											
10y	59.3	75.0	48.8	100.0	61.6	60.5	48.8	74.4	70.6	90.7	76.7	81.4	84.1	95.3	100.0										
157x	52.3	50.0	51.2	100.0	60.5	54.7	46.5	75.6	71.8	83.7	80.2	79.1	79.7	87.2	86.0	100.0									
1194f	58.1	75.0	47.6	100.0	62.8	60.5	50.0	74.4	71.8	91.9	80.2	82.6	85.5	96.5	86.0	100.0									
1202f	54.7	75.0	48.8	100.0	61.6	59.3	48.8	75.6	70.6	89.5	79.1	82.6	84.1	95.3	89.5	83.7	93.0	93.0	96.5	100.0					
1220x	55.8	75.0	46.3	100.0	60.5	55.8	47.7	72.1	70.6	88.4	77.9	80.2	84.1	94.2	89.5	83.7	93.0	91.9	91.9	100.0					
1222x	60.5	75.0	50.0	100.0	65.1	60.5	51.2	74.4	74.1	91.9	77.9	84.9	88.4	96.5	94.2	83.7	95.3	91.9	90.7	100.0					
1237f	55.8	75.0	47.6	100.0	60.5	58.1	47.7	74.4	69.4	89.5	77.9	81.4	82.6	94.2	88.4	97.7	98.8	90.7	93.0	100.0					
1242y	59.3	75.0	51.2	100.0	64.0	59.3	52.3	76.7	74.1	90.7	82.6	84.9	85.5	96.5	91.9	88.4	93.0	93.0	93.0	100.0					
1342y	53.5	75.0	48.8	100.0	60.5	55.8	46.5	73.3	71.8	93.0	82.6	79.1	85.5	91.9	88.4	86.0	91.9	89.5	88.4	89.5	100.0				
1458f	55.6	33.3	48.8	-	64.2	59.3	48.1	74.1	72.5	91.4	80.2	84.0	86.8	97.5	92.6	86.4	96.3	95.1	93.8	93.8	100.0				
TR	58.1	75.0	50.0	100.0	65.1	60.5	51.2	76.7	74.1	93.0	82.6	84.9	88.4	98.8	94.2	88.4	97.7	96.5	95.3	95.3	95.3	95.3	97.7	93.0	98.8



### APPENDIX 3

#### CHAPTER QUANTITATIVE ANALYSES FOR GROUPINGS WITH BYZANTINE MANUSCRIPTS

This appendix includes the following tables:

1. QA for John 1 with Byzantine MSS (Fractional Agreement)
2. QA for John 1 with Byzantine MSS (Percentile Agreement)
3. QA for John 2 with Byzantine MSS (Fractional Agreement)
4. QA for John 2 with Byzantine MSS (Percentile Agreement)
5. QA for John 3 with Byzantine MSS (Fractional Agreement)
6. QA for John 3 with Byzantine MSS (Percentile Agreement)
7. QA for John 4 with Byzantine MSS (Fractional Agreement)
8. QA for John 4 with Byzantine MSS (Percentile Agreement)
9. QA for John 5 with Byzantine MSS (Fractional Agreement)
10. QA for John 5 with Byzantine MSS (Percentile Agreement)
11. QA for John 6 with Byzantine MSS (Fractional Agreement)
12. QA for John 6 with Byzantine MSS (Percentile Agreement)
13. QA for John 7 with Byzantine MSS (Fractional Agreement)
14. QA for John 7 with Byzantine MSS (Percentile Agreement)
15. QA for John 8 with Byzantine MSS (Fractional Agreement)
16. QA for John 8 with Byzantine MSS (Percentile Agreement)
17. QA for John 9 with Byzantine MSS (Fractional Agreement)
18. QA for John 9 with Byzantine MSS (Percentile Agreement)
19. QA for John 10 with Byzantine MSS (Fractional Agreement)
20. QA for John 10 with Byzantine MSS (Percentile Agreement)
21. QA for John 11 with Byzantine MSS (Fractional Agreement)
22. QA for John 11 with Byzantine MSS (Percentile Agreement)
23. QA for John 12 with Byzantine MSS (Fractional Agreement)
24. QA for John 12 with Byzantine MSS (Percentile Agreement)
25. QA for John 13 with Byzantine MSS (Fractional Agreement)
26. QA for John 13 with Byzantine MSS (Percentile Agreement)

27. QA for John 14 with Byzantine MSS (Fractional Agreement)
28. QA for John 14 with Byzantine MSS (Percentile Agreement)
29. QA for John 15 with Byzantine MSS (Fractional Agreement)
30. QA for John 15 with Byzantine MSS (Percentile Agreement)
31. QA for John 16 with Byzantine MSS (Fractional Agreement)
32. QA for John 16 with Byzantine MSS (Percentile Agreement)
33. QA for John 17 with Byzantine MSS (Fractional Agreement)
34. QA for John 17 with Byzantine MSS (Percentile Agreement)
35. QA for John 18 with Byzantine MSS (Fractional Agreement)
36. QA for John 18 with Byzantine MSS (Percentile Agreement)
37. QA for John 19 with Byzantine MSS (Fractional Agreement)
38. QA for John 19 with Byzantine MSS (Percentile Agreement)
39. QA for John 20 with Byzantine MSS (Fractional Agreement)
40. QA for John 20 with Byzantine MSS (Percentile Agreement)
41. QA for John 21 with Byzantine MSS (Fractional Agreement)
42. QA for John 21 with Byzantine MSS (Percentile Agreement)



A3.2. QA for John I with Byzantine MSS  
(Percentile Agreement)

041S	100.0	489Z	1313Y	726Y	1113X	1319X	045S	10Y	F1S	F13S	157X	60X	1424X	1247Y	2382Y	1514Z	1194F	1202F	1220X	1222X	1237F	1242Y	1342Y	1458F	TR	
041S	100.0	489Z	1313Y	726Y	1113X	1319X	045S	10Y	F1S	F13S	157X	60X	1424X	1247Y	2382Y	1514Z	1194F	1202F	1220X	1222X	1237F	1242Y	1342Y	1458F	TR	
489Z	96.1	100.0																								
1313Y	89.6	93.5	100.0																							
726Y	87.0	85.7	87.0	100.0																						
1113X	83.1	81.8	80.5	93.5	100.0																					
1319X	84.4	83.1	84.4	97.4	93.5	100.0																				
045S	85.7	81.8	83.1	88.3	89.6	85.7	100.0																			
10Y	80.5	79.2	85.7	88.3	84.4	85.7	87.0	100.0																		
F1S	72.7	68.8	67.5	72.7	74.0	70.1	79.2	70.1	100.0																	
F13S	76.6	75.3	74.0	75.3	74.0	72.7	71.4	68.8	57.1	100.0																
157X	81.8	80.5	81.8	84.4	83.1	81.8	83.1	80.5	68.8	71.4	100.0															
60X	81.8	83.1	87.0	90.9	89.6	88.3	88.3	85.7	71.4	72.7	81.8	100.0														
1424X	79.2	80.5	83.1	81.8	77.9	79.2	77.9	76.6	66.2	67.5	77.9	81.8	100.0													
1247Y	80.5	81.8	83.1	87.0	85.7	84.4	83.1	80.5	68.8	68.8	75.3	88.3	76.6	100.0												
2382Y	85.7	87.0	88.3	89.6	88.3	87.0	85.7	83.1	71.4	71.4	80.5	90.9	79.2	94.8	100.0											
1514Z	85.7	87.0	88.3	90.9	87.0	88.3	87.0	87.0	68.8	71.4	83.1	93.5	80.5	88.3	93.5	100.0										
1194F	81.8	80.5	84.4	89.6	90.9	87.0	90.9	92.2	77.9	70.1	81.8	88.3	79.2	84.4	87.0	85.7	100.0									
1202F	81.8	80.5	84.4	89.6	90.9	87.0	90.9	85.7	80.5	71.4	84.4	90.9	77.9	85.7	88.3	88.3	89.6	100.0								
1220X	83.1	87.0	88.3	79.2	75.3	76.6	79.2	74.0	64.9	75.3	75.3	81.8	74.0	80.5	85.7	81.8	76.6	79.2	100.0							
1222X	85.7	84.4	85.7	81.8	85.7	79.2	85.7	83.1	68.8	72.7	80.5	84.4	77.9	80.5	85.7	85.7	84.4	85.7	79.2	100.0						
1237F	83.1	81.8	83.1	87.0	90.9	84.4	89.6	84.4	77.9	72.7	83.1	90.9	76.6	85.7	88.3	87.0	89.6	87.0	88.3	87.0	100.0					
1242Y	80.5	79.2	83.1	87.0	88.3	84.4	88.3	85.7	71.4	70.1	83.1	89.6	79.2	84.4	87.0	88.3	87.0	88.3	87.0	90.9	100.0					
1342Y	80.5	79.2	83.1	85.7	84.4	83.1	87.0	81.8	71.4	74.0	83.1	88.3	76.6	84.4	87.0	87.0	83.1	84.4	87.0	80.5	81.8	89.6	87.0	100.0		
1458F	81.8	77.9	84.4	81.8	83.1	79.2	88.3	85.7	70.1	72.7	76.6	84.4	76.6	76.6	79.2	83.1	84.4	87.0	84.4	87.0	83.1	84.4	83.1	100.0		
TR	84.4	80.5	81.8	89.6	93.5	87.0	96.1	85.7	80.5	72.7	81.8	90.9	76.6	87.0	89.6	88.3	92.2	94.8	79.2	87.0	92.2	89.6	88.3	89.6	100.0	

A3.3. QA for John 2 with Byzantine MSS  
(Fractional Agreement)

041s	041s	489z	1313y	726y	1113x	1339x	045s	10y	£1s	£13s	157x	60x	1424k	1247y	2382y	1514z	1194£	1202£	1220k	1222x	1237£	1242y	1342y	1458£	TR
39/39	39/39	36/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39
489z	37/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	36/39	TR
1313y	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	34/39	TR
726y	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	TR
1113x	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	TR
1339x	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	33/39	TR
045s	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	30/39	TR
10y	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	TR
£1s	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	29/39	TR
£13s	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	TR
157x	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	26/39	TR
60x	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	TR
1424k	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	TR
1247y	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	TR
2382y	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	TR
1514z	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	TR
1194£	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	25/39	TR
1202£	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	TR
1220k	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	TR
1222x	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	TR
1237£	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	28/39	TR
1242y	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	TR
1342y	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	31/39	TR
1458£	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	27/39	TR
TR	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	32/39	TR



A3.5. QA for John 3 with Byzantine MSS  
(Fractional Agreement)

041s	041s	489z	1113y	726y	1113x	1319x	045s	10y	21s	21s	157x	60x	1424x	1247y	2382x	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
67/ 67	59/ 67	61/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67	67/ 67
1313y	63/ 67	61/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67	60/ 67
726y	58/ 67	58/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67
1113x	54/ 67	58/ 67	56/ 67	54/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67
1319x	54/ 67	58/ 67	56/ 67	54/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67
045s	59/ 67	55/ 67	54/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67
10y	50/ 67	52/ 67	54/ 67	50/ 67	47/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67	49/ 67
21s	53/ 67	50/ 67	53/ 67	50/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67
157x	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67
60x	54/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67
1424x	51/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67	55/ 67
2382x	55/ 67	55/ 67	59/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67
1514z	55/ 67	55/ 67	59/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67	56/ 67
1194f	51/ 67	51/ 67	53/ 67	53/ 67	52/ 67	50/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67
1202f	53/ 67	51/ 67	55/ 67	55/ 67	52/ 67	50/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67	54/ 67
1220x	51/ 67	57/ 67	55/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67	57/ 67
1222x	54/ 67	56/ 67	56/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67	58/ 67
1237f	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67	50/ 67
1242y	49/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67	51/ 67
1342y	49/ 67	51/ 67	53/ 67	53/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67
1458f	49/ 67	51/ 67	53/ 67	53/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67	52/ 67
TR	56/ 67	52/ 67	56/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67	53/ 67

A3.6. QA for John 3 with Byzantine MSS  
(Percentile Agreement)

041s	100.0	041s	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	88.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1313y	94.0	91.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
726y	86.6	89.6	89.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1113x	80.6	86.6	83.6	92.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1319x	80.6	86.6	83.6	92.5	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
045s	88.1	82.1	88.1	80.6	77.6	80.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
10y	74.6	77.6	80.6	79.1	82.1	85.1	80.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
fls	79.1	74.6	79.1	74.6	70.1	73.1	82.1	73.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
fl3s	74.6	74.6	74.6	79.1	79.1	79.1	82.1	80.6	79.1	68.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
157x	83.6	86.6	86.6	88.1	85.1	85.1	83.6	73.1	71.6	76.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
60x	80.6	83.6	86.6	82.1	85.1	85.1	86.6	85.1	76.1	73.1	82.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1424x	76.1	82.1	82.1	83.6	83.6	83.6	82.1	77.6	71.6	74.6	80.6	86.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1247y	79.1	79.1	85.1	80.6	80.6	80.6	85.1	86.6	76.1	77.6	83.6	92.5	85.1	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
2382y	82.1	82.1	88.1	83.6	83.6	83.6	88.1	86.6	76.1	77.6	83.6	92.5	85.1	94.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1514z	82.1	82.1	88.1	86.6	86.6	86.6	88.1	89.6	76.1	80.6	83.6	92.5	85.1	94.0	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1194f	76.1	76.1	79.1	77.6	80.6	80.6	83.6	95.5	76.1	77.6	76.1	82.1	85.1	86.6	86.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	TR
1220x	79.1	76.1	82.1	77.6	74.6	77.6	86.6	89.6	77.6	77.6	76.1	82.1	74.6	79.1	73.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	TR
1222x	76.1	85.1	82.1	80.6	80.6	80.6	89.6	79.1	65.7	77.6	89.6	77.6	79.1	73.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	TR
1237f	80.6	83.6	86.6	85.1	85.1	85.1	89.6	91.0	79.1	79.1	82.1	91.0	83.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	TR
1242y	77.6	77.6	80.6	79.1	79.1	79.1	82.1	88.1	74.6	82.1	74.6	83.6	79.1	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	TR
1342y	74.6	74.6	80.6	80.6	80.6	80.6	85.1	80.6	71.6	80.6	73.1	79.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	TR
1458f	73.1	76.1	79.1	77.6	77.6	77.6	82.1	86.6	74.6	71.6	74.6	83.6	79.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	TR
TR	83.6	77.6	83.6	82.1	79.1	82.1	82.1	85.1	80.6	85.1	85.1	80.6	86.6	86.6	89.6	89.6	92.5	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	TR





A3.8. QA for John 4 with Byzantine MSS  
(Percentile Agreement)

041s	100.0	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	88.5	100.0																									
1313y	89.4	85.6	100.0																								
726y	77.9	79.8	84.6	100.0																							
1113x	80.8	78.8	83.7	89.4	100.0																						
1319x	79.8	77.9	82.7	86.5	87.5	100.0																					
045s	81.7	76.0	82.7	76.0	78.8	77.9	100.0																				
10y	76.9	75.0	85.6	77.9	78.8	76.0	77.9	100.0																			
f1s	72.1	68.3	73.1	63.5	66.3	65.4	73.1	72.1	68.3	100.0																	
f13s	70.2	62.5	70.2	72.1	76.9	72.1	73.1	72.1	65.4	100.0																	
157x	81.7	83.7	88.5	83.7	84.6	81.7	82.7	81.7	73.1	69.2	100.0																
60x	84.6	82.7	87.5	78.8	83.7	78.8	87.5	84.6	74.0	72.1	91.3	100.0															
1424x	72.1	70.2	78.8	75.0	76.0	73.1	75.0	81.7	65.4	71.2	81.7	83.7	100.0														
1247y	81.7	79.8	88.5	82.7	85.6	78.8	86.5	83.7	73.1	73.1	86.5	93.3	80.8	100.0													
2382y	82.7	80.8	89.4	81.7	84.6	77.9	87.5	84.6	74.0	72.1	89.4	94.2	83.7	95.2	96.2	100.0											
1514z	84.6	82.7	93.3	83.7	84.6	81.7	85.6	86.5	72.1	72.1	89.4	94.2	83.7	95.2	96.2	100.0											
1194f	76.9	76.9	83.7	77.9	75.0	74.0	79.8	92.3	68.3	66.3	84.6	88.5	83.7	85.6	86.5	88.5	100.0										
1202f	81.7	76.0	84.6	80.8	77.9	76.9	88.5	83.7	76.9	73.1	84.6	89.4	80.8	88.5	89.4	89.4	89.4	100.0									
1220x	76.0	74.0	81.7	79.8	80.8	74.0	77.9	75.0	72.1	71.2	79.8	78.8	74.0	77.9	78.8	80.8	76.9	81.7	100.0								
1222x	79.8	79.8	88.5	78.8	79.8	76.9	82.7	88.5	71.2	71.2	89.4	91.3	86.5	88.5	89.4	91.3	92.3	88.5	79.8	100.0							
1237f	80.8	80.8	85.6	79.8	78.8	77.9	85.6	84.6	74.0	72.1	85.6	92.3	81.7	89.4	90.4	90.4	95.2	80.8	89.4	100.0							
1242y	76.0	74.0	78.8	79.8	80.8	79.8	79.8	79.8	71.2	77.9	78.8	81.7	75.0	80.8	79.8	81.7	81.7	84.6	82.7	100.0							
1342y	80.8	80.8	87.5	79.8	76.9	76.0	85.6	84.6	72.1	70.2	87.5	90.4	81.7	89.4	90.4	92.3	90.4	91.3	82.7	100.0							
1458f	75.0	75.0	83.7	79.8	75.0	74.0	77.9	90.4	66.3	66.3	84.6	86.5	81.7	83.7	84.6	86.5	96.2	87.5	76.9	94.2	100.0						
TR	83.7	77.9	86.5	78.8	77.9	78.8	90.4	83.7	76.9	75.0	86.5	91.3	82.7	88.5	89.4	91.3	89.4	96.2	81.7	90.4	93.3	86.5	95.2	87.5	100.0		

A3.9. QA for John 5 with Byzantine MSS  
(Fractional Agreement)

041s	489z	1313y	726y	1113x	1319k	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
041s 85/ 92	489z 80/ 92	1313y 79/ 92	726y 71/ 92	1113x 73/ 92	1319k 71/ 92	045s 75/ 92	10y 78/ 92	f1s 76/ 92	f13s 73/ 92	157x 70/ 92	60x 66/ 86	1424x 64/ 86	1247y 62/ 86	2382y 60/ 86	1514z 58/ 86	1194f 56/ 86	1202f 54/ 86	1220x 52/ 86	1222x 50/ 86	1237f 48/ 86	1242y 46/ 86	1342y 44/ 86	1458f 42/ 86	TR 40/ 86
041s 86/ 92	489z 81/ 92	1313y 80/ 92	726y 72/ 92	1113x 74/ 92	1319k 72/ 92	045s 76/ 92	10y 79/ 92	f1s 77/ 92	f13s 74/ 92	157x 71/ 92	60x 67/ 86	1424x 65/ 86	1247y 63/ 86	2382y 61/ 86	1514z 59/ 86	1194f 57/ 86	1202f 55/ 86	1220x 53/ 86	1222x 51/ 86	1237f 49/ 86	1242y 47/ 86	1342y 45/ 86	1458f 43/ 86	TR 41/ 86
041s 87/ 92	489z 82/ 92	1313y 81/ 92	726y 73/ 92	1113x 75/ 92	1319k 73/ 92	045s 77/ 92	10y 80/ 92	f1s 78/ 92	f13s 75/ 92	157x 72/ 92	60x 68/ 86	1424x 66/ 86	1247y 64/ 86	2382y 62/ 86	1514z 60/ 86	1194f 58/ 86	1202f 56/ 86	1220x 54/ 86	1222x 52/ 86	1237f 50/ 86	1242y 48/ 86	1342y 46/ 86	1458f 44/ 86	TR 42/ 86
041s 88/ 92	489z 83/ 92	1313y 82/ 92	726y 74/ 92	1113x 76/ 92	1319k 74/ 92	045s 78/ 92	10y 81/ 92	f1s 79/ 92	f13s 76/ 92	157x 73/ 92	60x 69/ 86	1424x 67/ 86	1247y 65/ 86	2382y 63/ 86	1514z 61/ 86	1194f 59/ 86	1202f 57/ 86	1220x 55/ 86	1222x 53/ 86	1237f 51/ 86	1242y 49/ 86	1342y 47/ 86	1458f 45/ 86	TR 43/ 86
041s 89/ 92	489z 84/ 92	1313y 83/ 92	726y 75/ 92	1113x 77/ 92	1319k 75/ 92	045s 79/ 92	10y 82/ 92	f1s 80/ 92	f13s 77/ 92	157x 74/ 92	60x 70/ 86	1424x 68/ 86	1247y 66/ 86	2382y 64/ 86	1514z 62/ 86	1194f 60/ 86	1202f 58/ 86	1220x 56/ 86	1222x 54/ 86	1237f 52/ 86	1242y 50/ 86	1342y 48/ 86	1458f 46/ 86	TR 44/ 86
041s 90/ 92	489z 85/ 92	1313y 84/ 92	726y 76/ 92	1113x 78/ 92	1319k 76/ 92	045s 80/ 92	10y 83/ 92	f1s 81/ 92	f13s 78/ 92	157x 75/ 92	60x 71/ 86	1424x 69/ 86	1247y 67/ 86	2382y 65/ 86	1514z 63/ 86	1194f 61/ 86	1202f 59/ 86	1220x 57/ 86	1222x 55/ 86	1237f 53/ 86	1242y 51/ 86	1342y 49/ 86	1458f 47/ 86	TR 45/ 86
041s 91/ 92	489z 86/ 92	1313y 85/ 92	726y 77/ 92	1113x 79/ 92	1319k 77/ 92	045s 81/ 92	10y 84/ 92	f1s 82/ 92	f13s 79/ 92	157x 76/ 92	60x 72/ 86	1424x 70/ 86	1247y 68/ 86	2382y 66/ 86	1514z 64/ 86	1194f 62/ 86	1202f 60/ 86	1220x 58/ 86	1222x 56/ 86	1237f 54/ 86	1242y 52/ 86	1342y 50/ 86	1458f 48/ 86	TR 46/ 86
041s 92/ 92	489z 87/ 92	1313y 86/ 92	726y 78/ 92	1113x 80/ 92	1319k 78/ 92	045s 82/ 92	10y 85/ 92	f1s 83/ 92	f13s 80/ 92	157x 77/ 92	60x 73/ 86	1424x 71/ 86	1247y 69/ 86	2382y 67/ 86	1514z 65/ 86	1194f 63/ 86	1202f 61/ 86	1220x 59/ 86	1222x 57/ 86	1237f 55/ 86	1242y 53/ 86	1342y 51/ 86	1458f 49/ 86	TR 47/ 86

A3.10. QA for John 5 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
041s	100.0																										
489z	92.4	100.0																									
1313y	87.0	85.9	100.0																								
726y	77.2	79.3	83.7	100.0																							
1113x	79.3	83.7	83.7	87.0	100.0																						
1319x	77.2	84.8	81.5	88.0	92.4	100.0																					
045s	82.6	81.5	84.8	82.6	84.8	88.0	100.0																				
10y	72.8	76.1	79.3	72.8	79.3	78.3	83.7	100.0																			
f1s	69.6	68.5	71.7	69.6	73.9	72.8	82.6	78.3	100.0																		
f13s	69.6	71.7	73.9	69.6	75.0	70.7	76.1	70.7	72.8	100.0																	
157x	77.9	83.7	81.4	80.2	83.7	86.0	85.9	84.8	77.2	75.0	100.0																
60x	77.2	82.6	81.5	77.2	83.7	84.8	85.9	84.8	77.2	75.0	84.9	100.0															
1424x	67.4	72.8	73.9	69.6	80.4	77.2	78.3	75.0	69.6	69.6	79.1	83.7	100.0														
1247y	79.3	80.4	85.9	77.2	83.7	82.6	88.0	87.0	79.3	72.8	84.9	89.1	81.5	100.0													
2382y	80.4	83.7	84.8	78.3	84.8	83.7	89.1	88.0	80.4	73.9	86.0	92.4	84.8	96.7	100.0												
1514z	80.4	81.5	87.0	80.4	84.8	85.9	91.3	88.0	80.4	76.1	87.2	92.4	80.4	90.2	91.3	100.0											
1194f	79.3	80.4	83.7	80.4	83.7	84.8	92.4	90.2	80.4	73.9	83.7	88.0	78.3	90.2	91.3	93.5	100.0										
1202f	81.5	79.3	83.7	83.7	84.8	83.7	93.5	87.0	81.5	77.2	87.0	92.4	76.1	78.3	77.2	80.4	100.0										
1220x	79.3	79.3	79.3	73.9	77.2	75.0	82.6	72.8	66.3	78.3	70.9	75.0	64.1	75.0	82.6	90.2	91.3	93.5	100.0								
1222x	78.3	81.5	82.6	84.8	84.8	85.9	91.3	85.9	80.4	78.3	86.0	90.2	82.6	90.2	91.3	93.5	91.3	92.4	100.0								
1237f	82.6	81.5	82.6	84.8	84.8	85.9	94.6	85.9	82.6	76.1	84.9	88.0	78.3	90.2	91.3	93.5	93.5	94.6	81.5	100.0							
1242y	75.0	77.2	79.3	76.1	80.4	79.3	82.6	79.3	75.0	76.1	80.2	83.7	71.7	81.5	82.6	89.1	82.6	85.9	76.1	84.8	83.7	100.0					
1342y	81.5	80.4	83.7	83.7	83.7	84.8	96.7	87.0	83.7	77.2	84.9	89.1	79.3	91.3	92.4	94.6	94.6	95.7	81.5	94.6	97.8	100.0					
1458f	73.9	75.0	78.3	76.1	78.3	79.3	87.0	78.3	71.7	77.2	81.4	83.7	73.9	85.9	87.0	89.1	93.5	88.0	73.9	87.0	89.1	97.8	100.0				
TR	82.6	81.5	84.8	84.8	84.8	85.9	95.7	88.0	84.8	78.3	86.0	90.2	80.4	92.4	93.5	95.7	95.7	96.7	80.4	95.7	97.8	98.9	100.0				

A3.11. QA for John 6 with Byzantine MSS  
(Fractional Agreement)

041s	489z	1313y	726y	1113x	1319x	045s	10y	ε1s	ε13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
041s	489z	1313y	726y	1113x	1319x	045s	10y	ε1s	ε13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
117/117	171/171	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174
108/117	157/171	141/174	161/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174
104/117	140/171	142/174	161/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174
92/117	137/171	138/174	161/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174
93/117	137/171	138/174	161/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174
1319x	93/117	137/171	138/174	161/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174	156/174
045s	94/117	131/171	142/174	149/174	153/174	148/174	148/174	142/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174
10y	85/117	123/171	132/174	139/174	139/174	140/174	140/174	142/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174
ε1s	91/117	125/171	129/174	117/174	119/174	119/174	123/174	116/174	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171
ε13s	84/117	113/171	117/174	117/174	114/174	120/174	119/174	104/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174	174/174
157x	77/117	116/171	120/174	125/174	123/174	120/174	119/174	107/174	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171	171/171
60x	89/117	128/171	141/174	144/174	146/174	145/174	157/174	147/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174	120/174
1424x	79/117	118/171	126/174	133/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174	132/174
1247y	90/117	133/171	146/174	151/174	153/174	150/174	150/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174	153/174
2382y	89/117	132/171	145/174	150/174	152/174	149/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174	152/174
1514z	92/117	135/171	144/174	147/174	149/174	146/174	159/174	146/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174	159/174
1194f	87/117	124/171	131/174	140/174	138/174	137/174	149/174	161/174	117/171	109/174	124/174	132/174	149/174	152/174	149/174	149/174	149/174	149/174	149/174	149/174	149/174	149/174	149/174	149/174
1202f	90/117	130/171	139/174	140/174	140/174	139/174	153/174	147/174	116/171	112/174	129/174	141/174	150/174	157/174	145/174	145/174	145/174	145/174	145/174	145/174	145/174	145/174	145/174	145/174
1222x	92/117	130/171	142/174	132/174	131/174	131/174	149/174	149/174	113/166	117/166	127/166	137/174	159/174	160/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174
1237f	92/117	130/171	141/174	148/174	148/174	145/174	149/174	149/174	118/171	118/171	133/171	137/174	159/174	160/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174
1342y	92/117	129/171	140/174	143/174	143/174	137/174	151/174	139/174	119/174	124/174	129/174	149/174	159/174	160/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174	161/174
1342y	91/117	127/171	136/174	145/174	145/174	142/174	158/174	146/174	116/171	130/171	146/174	154/174	155/174	158/174	155/174	155/174	155/174	155/174	155/174	155/174	155/174	155/174	155/174	155/174
1458f	87/117	124/171	135/174	144/174	144/174	141/174	153/174	141/174	111/171	111/171	126/174	137/174	157/174	160/174	160/174	160/174	160/174	160/174	160/174	160/174	160/174	160/174	160/174	160/174
TR	93/117	131/171	142/174	151/174	149/174	146/174	164/174	146/174	127/171	115/174	132/171	159/174	138/174	162/174	163/174	162/174	162/174	162/174	162/174	162/174	162/174	162/174	162/174	162/174

A3.12. QA for John 6 with Byzantine MSS  
(Percentile Agreement)

TR	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
041s	92.3	91.8	81.0	92.5	89.7	85.1	81.6	100.0	67.8	60.8	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
489z	88.9	81.9	81.0	81.6	87.9	85.1	81.6	100.0	60.8	62.6	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1313y	78.6	81.9	81.0	81.6	87.9	85.1	81.6	100.0	60.8	62.6	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
726y	88.9	81.9	81.0	81.6	87.9	85.1	81.6	100.0	60.8	62.6	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1113x	77.8	80.1	81.6	92.5	89.7	85.1	81.6	100.0	67.8	60.8	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1319x	79.5	80.1	79.3	92.5	89.7	85.1	81.6	100.0	67.8	60.8	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
045s	80.3	76.6	81.6	85.6	87.9	85.1	81.6	100.0	67.8	60.8	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10y	72.6	70.8	75.9	79.9	79.9	80.5	81.6	100.0	67.8	60.8	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f1s	77.8	73.1	75.4	68.4	69.6	68.4	71.9	67.8	100.0	100.0	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f13s	71.8	66.1	67.2	67.2	65.5	69.0	61.5	60.8	100.0	100.0	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
157x	65.8	67.8	70.2	73.1	71.9	70.2	74.9	69.6	62.6	60.8	100.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60x	76.1	74.9	81.0	82.8	83.9	83.3	90.2	84.5	70.2	67.8	71.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1424x	67.5	69.6	72.4	76.4	75.9	75.9	78.7	75.9	63.2	61.5	68.4	78.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1247y	76.9	77.8	83.9	86.8	87.9	86.2	90.8	87.9	73.1	65.5	76.0	91.4	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2382y	76.1	77.2	83.3	86.2	87.4	85.6	91.4	87.9	72.5	64.9	76.6	93.1	82.2	98.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1514z	79.5	78.9	82.8	84.5	85.6	83.9	90.8	83.9	75.4	67.2	77.2	91.4	81.6	93.1	93.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194f	74.4	72.5	75.3	80.5	79.3	78.7	85.6	92.5	68.4	62.6	72.5	86.2	75.9	85.6	87.4	85.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202f	76.9	76.0	79.9	80.5	80.5	79.9	87.9	84.5	67.8	64.4	73.1	87.4	81.0	89.1	89.7	87.9	87.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1220x	80.4	83.7	85.5	79.5	78.9	77.7	80.7	69.3	68.1	69.9	70.5	76.5	69.9	78.3	77.7	78.9	71.7	75.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1222x	78.6	76.0	81.0	85.1	85.1	83.3	93.7	85.6	72.5	67.8	77.8	92.0	81.0	89.1	89.7	87.9	87.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1237f	78.6	77.8	80.5	81.0	82.2	81.0	89.1	83.3	70.2	65.5	74.3	87.4	77.6	89.1	89.7	87.9	87.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1242y	78.6	75.4	80.5	82.2	82.2	78.7	86.8	79.9	71.9	68.4	72.5	83.9	74.1	85.6	86.2	83.3	80.5	83.9	80.1	87.4	83.9	84.5	100.0	100.0	100.0	100.0
1342y	77.8	74.3	78.2	83.3	83.3	81.6	90.8	83.9	73.7	66.7	76.0	89.1	78.2	88.5	89.1	90.8	89.1	88.5	74.1	92.0	86.2	83.9	91.4	100.0	100.0	
1458f	74.4	72.5	77.6	82.8	82.8	81.0	87.9	87.9	63.8	63.8	73.7	90.8	78.7	90.2	92.0	90.2	89.7	88.5	74.1	92.0	86.2	83.9	91.4	100.0	100.0	
TR	79.5	76.6	81.6	86.8	85.6	83.9	94.3	83.9	74.3	66.1	77.2	91.4	79.3	93.1	93.7	93.1	89.1	90.2	80.1	96.0	90.2	86.8	93.1	90.2	100.0	

A3.13. QA for John 7 with Byzantine MSS  
(Fractional Agreement)

041s	041s	489z	1313y	726y	1113x	1319x	045s	10y	ε1s	ε13s	157x	60x	1424x	1247y	2382x	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
111/111	112/112	100/111	103/112	112/112	91/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112
1313y	101/111	86/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112
1113x	79/111	80/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112
1319x	88/111	84/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112	89/112
045s	77/111	75/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112
10y	66/111	65/112	71/112	70/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112
ε1s	73/111	68/112	71/112	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111	72/111
ε13s	67/110	67/111	74/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112
157x	72/111	70/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112
60x	68/111	64/112	69/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112	70/112
1424x	71/111	69/112	76/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112
1247y	74/111	76/112	78/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112
2382x	78/111	76/112	78/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112
1514z	78/111	76/112	78/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112	85/112
1194f	71/111	69/112	73/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112	76/112
1202f	74/111	72/112	76/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112	80/112
1220x	79/111	79/112	84/112	80/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112
1222x	77/111	75/112	80/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112
1237f	77/111	75/112	79/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112
1242y	77/111	75/112	80/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112	79/112
1342y	74/111	72/112	77/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112
1458f	69/111	68/112	72/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112
TR	76/111	74/112	79/112	81/112	90/112	87/112	105/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112

A3.14. QA for John 7 with Byzantine MSS  
(Percentile Agreement)

041s	100.0	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424k	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
041s	100.0	489z	90.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR	
489z	91.0	92.0																									
1313y	78.4	76.8	81.2	100.0																							
726y	71.4	71.4	74.1	83.9	100.0																						
1113x	71.2	71.4	74.1	88.4	84.8	100.0																					
1319x	79.3	75.0	79.5	89.6	84.8	100.0																					
045s	69.4	67.0	71.4	69.6	75.9	75.0	100.0																				
10y	59.5	58.0	63.4	66.1	71.4	69.6	76.8	100.0																			
fls	65.8	60.7	62.5	61.6	67.9	65.2	72.3	68.8	100.0																		
fl3s	60.9	60.4	64.9	59.5	62.2	60.4	66.7	65.8	66.7	100.0																	
157x	65.8	66.1	72.3	72.3	77.7	77.7	80.4	77.7	70.5	73.0	100.0																
60x	64.9	62.5	67.0	70.5	76.8	72.3	81.2	78.6	68.8	67.6	83.9	100.0															
1424k	61.3	57.1	61.6	69.6	71.4	69.6	63.9	72.3	56.8	73.2	75.9	100.0															
1247y	64.0	61.6	67.9	73.2	79.5	76.8	83.9	79.5	67.0	65.8	82.1	86.6	76.8	100.0													
2382y	66.7	64.3	70.5	75.9	80.4	77.7	86.6	82.1	69.6	68.5	87.5	92.0	78.6	94.6	100.0												
1514z	70.3	67.9	72.3	75.9	82.1	79.5	83.9	69.6	67.6	86.6	91.1	79.5	89.3	94.6	100.0												
1194f	64.0	61.6	65.2	67.9	75.0	73.2	83.0	90.2	71.4	64.9	77.7	79.5	69.6	80.4	83.0	86.6	100.0										
1202f	66.7	64.3	67.9	71.4	77.7	74.1	81.2	80.4	63.1	77.7	80.4	75.0	79.5	82.1	83.9	86.6	100.0										
1220x	71.2	70.5	75.0	71.4	75.0	78.6	81.2	70.5	67.0	65.8	83.9	75.9	67.9	76.8	79.5	82.1	83.9	88.4	100.0								
1222x	69.4	67.0	71.4	73.2	79.5	76.8	85.7	80.4	65.8	79.5	79.5	71.4	80.4	83.0	84.8	86.6	92.0	75.0	100.0								
1237f	69.4	67.0	71.4	72.3	79.5	76.8	85.7	80.4	65.8	79.5	79.5	71.4	80.4	83.0	84.8	86.6	92.0	75.0	100.0								
1242y	69.4	67.0	71.4	70.5	75.0	73.2	75.9	74.1	67.9	61.3	76.8	79.5	73.2	76.8	79.5	82.1	83.9	86.6	92.0								
1342y	66.7	64.3	68.8	70.5	77.7	75.9	83.9	83.9	72.3	70.3	85.7	84.8	75.0	84.8	89.3	91.1	86.6	84.8	76.8								
1458f	62.2	60.7	64.3	67.0	75.9	71.4	81.2	88.4	66.1	65.8	77.7	80.4	73.2	82.1	83.9	87.5	91.1	84.8	72.3								
TR	68.5	66.1	70.5	72.3	80.4	77.7	93.8	82.1	73.2	67.6	83.9	84.8	75.0	85.7	88.4	92.0	88.4	85.7	78.6								



A3.15. QA for John 8 with Byzantine MSS  
(Fractional Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247Y	2382Y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	76/ 76																									
489z	73/ 76	172/172																								
1313y	74/ 76	163/172	172/172																							
726y	68/ 76	150/172	153/172	172/172																						
1113x	67/ 76	148/172	153/172	159/172	172/172																					
1319x	70/ 76	148/172	151/172	157/172	159/172	172/172																				
045s	56/ 76	121/169	126/169	125/169	130/169	128/169	169/169																			
10y	71/ 76	143/172	147/172	139/172	142/172	139/172	126/169	172/172																		
f1s	56/ 76	121/172	120/172	121/172	118/172	121/172	122/169	112/172	172/172																	
f13s	43/ 75	108/171	111/171	110/171	106/171	106/171	113/168	107/171	112/171	171/171																
157x	43/ 48	102/119	102/119	93/119	98/119	97/119	94/116	96/119	85/119	75/118	119/119															
60x	59/ 76	138/172	143/172	136/172	143/172	136/172	138/169	138/172	121/172	111/171	101/119	172/172														
1424x	39/ 48	88/114	92/114	91/114	96/114	91/114	93/114	90/114	71/114	71/113	90/114	98/114	114/114													
1247Y	64/ 76	141/171	146/171	137/171	141/171	139/171	137/168	141/171	124/171	115/170	103/118	151/171	96/113	171/171												
2382Y	64/ 76	143/172	148/172	139/172	144/172	143/172	139/169	143/172	124/172	114/171	106/119	155/172	98/114	168/171	172/172											
1514z	62/ 76	136/172	141/172	136/172	137/172	138/172	145/169	142/172	124/172	118/171	104/119	152/172	97/114	157/171	161/172	172/172										
1194f	69/ 76	143/172	148/172	142/172	146/172	142/172	132/169	159/172	116/172	109/171	96/119	143/172	96/114	142/171	145/172	147/172	172/172									
1202f	65/ 76	139/172	141/172	139/172	144/172	136/172	133/169	143/172	128/172	108/171	95/119	149/172	92/114	142/171	144/172	143/172	146/172	172/172								
1220x	55/ 71	119/165	120/165	118/165	120/165	119/165	131/162	124/165	119/165	110/165	88/116	128/165	84/113	129/164	129/165	135/165	128/165	129/165	165/165							
1222x	71/ 76	152/172	155/172	150/172	152/172	149/172	133/169	154/172	120/172	113/171	102/119	146/172	100/114	149/171	151/172	150/172	159/172	150/172	126/165	172/172						
1237f	67/ 76	138/172	143/172	140/172	142/172	137/172	139/169	145/172	126/172	111/171	96/119	148/172	91/114	145/171	147/172	150/172	148/172	160/172	133/165	150/172	172/172					
1242y	41/ 48	94/119	98/119	95/119	96/119	95/119	98/116	97/119	79/119	80/118	93/119	97/119	86/114	97/118	100/119	104/119	98/119	98/119	87/116	102/119	101/119	119/119				
1342y	52/ 76	116/172	119/172	120/172	122/172	121/172	134/169	117/172	114/172	110/171	98/119	129/172	92/114	131/171	133/172	138/172	124/172	124/172	119/165	129/172	130/172	96/119	172/172			
1458f	58/ 76	128/172	131/172	129/172	131/172	129/172	144/169	135/172	122/172	113/171	95/119	140/172	89/114	141/171	143/172	143/172	144/172	140/172	127/165	140/172	144/172	100/119	131/172	172/172		
TR	68/ 76	141/172	146/172	142/172	146/172	145/172	142/169	147/172	126/172	115/171	100/119	148/172	95/114	152/171	156/172	156/172	153/172	148/172	129/165	155/172	153/172	106/119	137/172	148/172	172/172	

A3.16. QA for John 8 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
041s	100.0																										
489z	96.1	100.0																									
1313y	97.4	94.8	100.0																								
726y	89.5	87.2	89.0	100.0																							
1113x	88.2	86.0	89.0	92.4	100.0																						
1319x	92.1	86.0	87.8	91.3	92.4	100.0																					
045s	73.7	71.6	74.6	74.0	76.9	75.7	100.0																				
10y	93.4	83.1	85.5	80.8	82.6	80.8	74.6	100.0																			
f1s	73.7	70.3	69.8	70.3	68.6	70.3	72.2	65.1	100.0																		
f13s	57.3	63.2	64.9	64.3	62.0	62.0	67.3	62.6	65.5	100.0																	
157x	89.6	85.7	85.7	78.2	82.4	81.5	81.0	80.7	71.4	63.6	100.0																
60x	77.6	80.2	83.1	79.1	83.1	79.1	81.7	80.2	70.3	64.9	84.9	100.0															
1424x	81.2	77.2	80.7	79.8	84.2	79.8	81.6	78.9	62.3	62.8	78.9	86.0	100.0														
1247y	84.2	82.5	85.4	80.1	82.5	81.5	82.5	72.5	67.6	87.3	88.3	85.0	98.2	100.0													
2382y	84.2	83.1	86.0	80.8	83.7	83.1	82.2	83.1	72.1	66.7	89.1	90.1	86.0	100.0													
1514z	81.6	79.1	82.0	79.1	79.7	80.2	85.8	82.6	72.1	69.0	87.4	88.4	85.1	91.8	93.6	100.0											
1194f	90.8	83.1	86.0	82.6	84.9	82.6	78.1	92.4	67.4	63.2	79.8	86.6	80.7	83.0	83.7	83.1	84.9	100.0									
1202f	85.5	80.8	82.0	80.8	83.7	79.1	78.7	83.1	74.4	63.2	79.8	86.6	80.7	83.0	83.7	83.1	84.9	100.0									
1220x	77.5	72.1	72.7	71.5	87.2	86.6	78.7	89.5	69.8	66.1	85.7	84.9	87.7	87.1	87.8	87.2	92.4	87.2	76.4	100.0							
1222x	93.4	88.4	90.1	87.2	88.4	86.6	78.7	75.2	72.1	66.7	75.9	77.6	74.3	78.7	78.2	81.8	77.6	78.2	100.0								
1237f	88.2	80.2	83.1	81.4	82.6	79.7	82.2	84.3	73.3	64.9	80.7	86.0	79.8	84.8	85.5	87.2	86.0	93.0	80.6	87.2	100.0						
1242y	85.4	79.0	82.4	79.8	80.7	79.8	84.5	81.5	66.4	67.8	78.2	81.5	75.4	82.2	84.0	87.4	82.4	82.4	75.0	85.7	84.9	100.0					
1342y	68.4	67.4	69.2	69.8	70.9	70.3	79.3	68.0	66.3	64.3	82.4	75.0	80.7	76.6	77.3	80.2	72.1	72.1	72.1	75.0	75.0	80.7	100.0				
1458f	76.3	74.4	76.2	75.0	76.2	75.0	85.2	78.5	70.9	66.1	79.8	81.4	78.1	82.5	83.1	83.1	83.7	81.4	77.0	81.4	83.7	84.0	76.2	100.0			
TR	89.5	82.0	84.9	82.6	84.9	84.3	84.0	85.5	73.3	67.3	84.0	86.0	83.3	88.9	90.7	90.7	89.0	86.0	78.2	90.1	89.0	89.1	79.7	86.0	100.0		

A3.17. QA for John 9 with Byzantine MSS  
(Fractional Agreement)

041s	41/ 41	489z	82/ 82	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424k	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
489z	36/ 41	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
1313y	35/ 41	72/ 82	66/ 82	72/ 82	72/ 82	75/ 82	67/ 82	64/ 82	51/ 82	47/ 81	41/ 81	81/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
726y	34/ 41	65/ 82	66/ 82	70/ 82	70/ 82	75/ 82	67/ 82	64/ 82	51/ 82	47/ 81	41/ 81	81/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
1113x	33/ 41	64/ 82	66/ 82	70/ 82	70/ 82	75/ 82	67/ 82	64/ 82	51/ 82	47/ 81	41/ 81	81/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
1319x	33/ 41	65/ 82	66/ 82	69/ 82	69/ 82	64/ 82	67/ 82	64/ 82	51/ 82	47/ 81	41/ 81	81/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
045s	33/ 41	62/ 82	69/ 82	69/ 82	69/ 82	64/ 82	67/ 82	64/ 82	51/ 82	47/ 81	41/ 81	81/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
10y	32/ 41	60/ 82	65/ 82	63/ 82	63/ 82	64/ 82	67/ 82	64/ 82	51/ 82	47/ 81	41/ 81	81/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
f1s	24/ 41	54/ 82	53/ 82	51/ 82	52/ 82	54/ 82	57/ 82	48/ 82	48/ 82	42/ 82	42/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
f13s	31/ 41	58/ 82	58/ 82	53/ 82	53/ 82	54/ 82	57/ 82	53/ 82	51/ 82	47/ 81	41/ 81	81/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
157x	25/ 41	51/ 81	53/ 81	48/ 81	50/ 81	50/ 82	58/ 82	66/ 82	68/ 82	50/ 82	50/ 82	53/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
60x	31/ 41	58/ 82	65/ 82	58/ 82	58/ 82	58/ 82	66/ 82	66/ 82	68/ 82	50/ 82	50/ 82	53/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
1424k	30/ 41	54/ 82	59/ 82	58/ 82	58/ 82	58/ 82	66/ 82	66/ 82	68/ 82	50/ 82	50/ 82	53/ 81	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82	82/ 82
1247y	33/ 41	63/ 82	72/ 82	64/ 82	64/ 82	67/ 82	66/ 82	69/ 82	71/ 82	56/ 82	57/ 82	54/ 81	71/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82
2382y	34/ 41	63/ 82	72/ 82	64/ 82	64/ 82	67/ 82	66/ 82	69/ 82	71/ 82	56/ 82	57/ 82	54/ 81	71/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82
1514z	34/ 41	64/ 82	71/ 82	63/ 82	63/ 82	66/ 82	67/ 82	72/ 82	72/ 82	57/ 82	57/ 82	54/ 81	74/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82
1194f	33/ 41	64/ 82	69/ 82	63/ 82	63/ 82	66/ 82	67/ 82	72/ 82	72/ 82	57/ 82	57/ 82	54/ 81	74/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82
1202f	32/ 41	62/ 82	69/ 82	65/ 82	65/ 82	68/ 82	69/ 82	74/ 82	70/ 82	53/ 82	53/ 82	59/ 81	70/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82
1220x	31/ 41	62/ 82	66/ 82	60/ 82	60/ 82	61/ 82	64/ 82	63/ 82	63/ 82	59/ 82	60/ 82	59/ 81	70/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82	62/ 82
1222x	33/ 41	61/ 82	68/ 82	62/ 82	62/ 82	65/ 82	67/ 82	70/ 82	70/ 82	59/ 82	59/ 82	54/ 81	69/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82
1237f	32/ 41	61/ 82	68/ 82	62/ 82	62/ 82	65/ 82	67/ 82	70/ 82	70/ 82	59/ 82	59/ 82	54/ 81	69/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82
1342y	26/ 41	56/ 82	59/ 82	56/ 82	59/ 82	59/ 82	59/ 82	54/ 82	54/ 82	56/ 82	56/ 82	60/ 81	73/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82	63/ 82
1458f	35/ 41	59/ 82	64/ 82	64/ 82	64/ 82	63/ 82	66/ 82	71/ 82	71/ 82	56/ 82	56/ 82	60/ 81	69/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82	61/ 82
TR	33/ 41	60/ 82	67/ 82	61/ 82	61/ 82	66/ 82	69/ 82	76/ 82	76/ 82	50/ 82	59/ 82	56/ 81	68/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82	58/ 82

A3.18. QA for John 9 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	100.0																									
489z	87.8	100.0																								
1313y	85.4	87.8	100.0																							
726y	82.9	79.3	80.5	100.0																						
1113x	80.5	78.0	79.3	87.8	100.0																					
1319x	80.5	79.3	80.5	85.4	91.5	100.0																				
045s	80.5	75.6	84.1	72.0	78.0	81.7	100.0																			
10y	78.0	73.2	79.3	76.8	78.0	76.8	78.0	100.0																		
f1s	58.5	65.9	64.6	62.2	63.4	62.2	58.5	62.2	100.0																	
f13s	75.6	70.7	70.7	64.6	65.9	64.6	62.2	51.2	100.0																	
157x	61.0	63.0	65.4	59.3	61.7	65.4	65.4	67.9	58.0	100.0																
60x	75.6	70.7	79.3	70.7	74.4	75.6	80.5	82.9	61.0	61.0	65.4	100.0														
1424x	73.2	65.9	72.0	68.3	70.7	67.1	70.7	52.4	52.4	61.0	56.8	76.8	100.0													
1247y	80.5	76.8	87.8	78.0	81.7	80.5	84.1	86.6	68.3	69.5	66.7	86.6	74.4	100.0												
2382y	80.5	76.8	87.8	78.0	81.7	80.5	84.1	86.6	68.3	69.5	66.7	86.6	74.4	100.0	100.0											
1514z	82.9	78.0	86.6	76.8	80.5	81.7	87.8	87.8	64.6	69.5	70.4	90.2	75.6	96.3	96.3	100.0										
1194f	80.5	78.0	84.1	76.8	78.0	81.7	82.9	92.7	62.2	67.1	72.8	85.4	75.6	89.0	91.5	91.5	100.0									
1202f	78.0	75.6	84.1	79.3	82.9	84.1	90.2	85.4	64.6	64.6	67.9	85.4	75.6	89.0	92.7	90.2	100.0									
1220x	75.6	80.5	80.5	73.2	74.4	78.0	76.8	72.0	73.2	73.2	65.4	69.5	62.2	80.5	80.5	79.3	76.8	76.8	100.0							
1222x	80.5	74.4	82.9	75.6	79.3	81.7	85.4	84.1	58.5	67.1	66.7	84.1	74.4	90.2	90.2	93.9	89.0	96.3	90.2	100.0						
1237f	78.0	74.4	82.9	75.6	79.3	80.5	89.0	84.1	63.4	67.1	66.7	84.1	74.4	90.2	90.2	93.9	89.0	96.3	90.2	100.0						
1242y	63.4	68.3	72.0	68.3	72.0	72.0	74.4	73.2	65.9	67.1	69.1	73.2	65.9	81.7	81.7	80.5	75.6	78.0	72.0	80.5	100.0					
1342y	80.5	74.4	82.9	75.6	79.3	80.5	86.6	86.6	61.0	68.3	74.1	89.0	76.8	92.7	92.7	96.3	91.5	80.5	95.1	92.7	84.1	100.0				
1458f	85.4	72.0	78.0	73.2	76.8	80.5	86.6	84.1	58.5	68.3	69.1	84.1	74.4	87.8	87.8	91.5	89.0	91.5	80.5	91.5	90.2	78.0	100.0			
TR	80.5	73.2	81.7	74.4	80.5	84.1	92.7	82.9	61.0	72.0	69.1	82.9	70.7	89.0	89.0	92.7	87.8	92.7	79.3	92.7	93.9	81.7	93.9	91.5	100.0	

A3.19. QA for John 10 with Byzantine MSS  
(Fractional Agreement)

041s	74/ 74	489z	1313y	726y	1113x	1319x	045s	10y	ε1s	ε13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
489z	71/ 74	67/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75	75/ 75
1313y	65/ 74	64/ 75	63/ 75	68/ 75	64/ 75	60/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
726y	61/ 74	62/ 75	63/ 75	68/ 75	64/ 75	60/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
1113x	59/ 74	58/ 75	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
1319x	57/ 74	58/ 75	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
045s	56/ 74	58/ 75	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
10y	54/ 74	56/ 75	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
ε1s	53/ 74	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75	53/ 75
ε13s	54/ 74	54/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75	56/ 75
157x	55/ 74	57/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75	59/ 75
60x	58/ 74	47/ 75	63/ 75	48/ 75	47/ 75	43/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75
1424x	43/ 74	47/ 75	63/ 75	48/ 75	47/ 75	43/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75	54/ 75
1247y	57/ 74	59/ 75	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
2382y	58/ 74	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
1514z	58/ 74	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
1194f	54/ 74	60/ 75	64/ 75	64/ 75	60/ 75	64/ 75	64/ 75	64/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75	63/ 75
1202f	56/ 74	58/ 75	62/ 75	57/ 75	56/ 75	55/ 75	59/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75
1220x	57/ 74	57/ 75	59/ 75	56/ 75	56/ 75	55/ 75	59/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75	60/ 75
1222x	56/ 74	58/ 75	64/ 75	59/ 75	58/ 75	58/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75
1237f	57/ 74	59/ 75	63/ 75	58/ 75	58/ 75	58/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75
1242y	56/ 74	58/ 75	60/ 75	59/ 75	58/ 75	58/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75
1342y	56/ 74	58/ 75	60/ 75	59/ 75	58/ 75	58/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75
1458f	57/ 74	59/ 75	63/ 75	58/ 75	58/ 75	58/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75
TR	57/ 74	59/ 75	63/ 75	59/ 75	58/ 75	59/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75	67/ 75

A3.20. QA for John 10 with Byzantine MSS  
(Percentile Agreement)

041S	100.0	041S	489Z	1313Y	726Y	1113X	1319X	045S	10Y	F1S	F13S	157X	60X	1424X	1247Y	2382Y	1514Z	1194F	1202F	1220X	1222X	1237F	1242Y	1342Y	1458F	TR	
489Z	95.9	100.0	87.8	89.3	100.0	85.3	90.7	100.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	80.0	85.3	80.0	85.3	80.0	85.3
726Y	82.4	85.3	84.0	85.3	84.0	85.3	80.0	85.3	80.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	80.0	85.3	80.0	85.3	
1113X	79.7	81.3	84.0	85.3	84.0	85.3	80.0	85.3	80.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	80.0	85.3	80.0	85.3	
1319X	77.0	77.3	80.0	85.3	85.3	85.3	80.0	85.3	80.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	81.3	80.0	85.3	80.0	85.3	80.0	85.3	80.0	85.3	
045S	75.7	77.3	85.3	78.7	80.0	76.0	74.7	70.7	84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
10Y	73.0	74.7	80.0	76.0	74.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	
F1S	79.7	78.7	70.7	70.7	70.7	69.3	65.3	69.3	65.3	68.0	73.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
F13S	73.0	72.0	74.7	72.0	74.7	69.3	65.3	69.3	65.3	68.0	73.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
157X	74.3	76.0	78.7	74.7	73.3	69.3	73.3	73.3	84.0	69.3	73.3	76.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
60X	78.4	80.0	85.3	81.3	80.0	78.7	92.0	92.0	84.0	69.3	52.0	58.7	58.7	72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1424X	58.1	62.7	65.3	64.0	62.7	57.3	72.0	69.3	69.3	62.7	68.0	73.3	89.3	64.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	
1247Y	77.0	78.7	84.0	77.3	77.3	73.3	92.0	85.3	86.7	70.7	76.0	74.7	93.3	70.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
2382Y	78.4	80.0	85.3	81.3	80.0	76.0	94.7	84.0	69.3	73.3	78.7	97.3	92.0	92.0	93.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1514Z	78.4	80.0	85.3	81.3	80.0	76.0	94.7	84.0	69.3	73.3	78.7	97.3	92.0	92.0	93.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1194F	73.0	74.7	80.0	73.3	72.0	73.3	84.0	69.3	62.7	68.0	73.3	89.3	64.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	
1202F	75.7	77.3	82.7	76.0	74.7	78.7	84.0	69.3	62.7	68.0	73.3	89.3	64.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	88.0	86.7	
1220X	77.0	76.0	78.7	74.0	76.0	73.3	80.0	73.3	69.3	72.0	74.7	80.0	68.0	80.0	81.3	80.0	81.3	80.0	81.3	80.0	81.3	80.0	81.3	80.0	81.3	80.0	
1222X	75.7	77.3	85.3	78.7	77.3	77.3	80.0	73.3	69.3	72.0	74.7	80.0	68.0	80.0	81.3	80.0	81.3	80.0	81.3	80.0	81.3	80.0	81.3	80.0	81.3	80.0	
1237F	77.0	78.7	84.0	77.3	76.0	77.3	85.3	80.7	64.0	69.3	74.7	93.3	65.3	78.7	80.0	82.7	74.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	
1242Y	75.7	77.3	80.0	78.7	77.3	77.3	80.0	74.7	69.3	70.7	76.0	82.7	65.3	78.7	80.0	82.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	
1342Y	75.7	77.3	85.3	77.3	76.0	72.0	90.7	81.3	68.0	70.7	78.7	93.3	70.7	89.3	90.7	96.0	84.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	
1458F	77.0	78.7	84.0	77.3	76.0	74.7	88.0	90.7	66.7	69.3	74.7	90.7	70.7	89.3	90.7	96.0	84.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	
TR	77.0	78.7	84.0	78.7	77.3	78.7	89.3	82.7	69.3	72.0	74.7	97.3	69.3	90.7	92.0	94.7	88.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	

A3.21. QA for John 11 with Byzantine MSS  
(Fractional Agreement)

041s	106/106	489z	1313y	726y	1113x	1315x	045s	10y	f1s	f13s	157x	60x	1424r	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	101/106	106/106	94/106	92/106	90/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106
1313y	91/106	92/106	95/106	91/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	106/106	
726y	90/106	89/106	90/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	88/106	89/106	
1113x	85/106	86/106	89/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	
1315x	87/106	84/106	90/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	85/106	84/106	
045s	87/106	85/106	88/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	
10y	86/106	85/106	88/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	85/106	86/106	
f1s	76/106	71/106	72/106	69/106	70/106	64/106	77/106	75/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	
f13s	80/106	77/106	86/106	79/106	78/106	85/106	82/106	80/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	84/106	
157x	74/106	73/106	77/106	72/106	72/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	73/106	
60x	83/106	82/106	87/106	85/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	
1424r	67/106	66/106	71/106	89/106	86/106	83/106	92/106	94/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	86/106	
2382y	86/106	87/106	90/106	91/106	90/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	91/106	
1514z	89/106	85/106	88/106	85/106	86/106	83/106	91/106	102/106	86/106	80/106	82/106	94/106	76/106	89/106	91/106	95/106	84/106	89/106	92/106	99/106	99/106	99/106	99/106	99/106	99/106	
1194f	89/106	85/106	88/106	85/106	86/106	83/106	91/106	102/106	86/106	80/106	82/106	94/106	76/106	89/106	91/106	95/106	84/106	89/106	92/106	99/106	99/106	99/106	99/106	99/106	99/106	
1202f	89/106	83/106	94/106	88/106	89/106	82/106	95/106	97/106	78/106	89/106	82/106	94/106	76/106	89/106	91/106	95/106	84/106	89/106	92/106	99/106	99/106	99/106	99/106	99/106	99/106	
1220x	84/106	83/106	90/106	89/106	90/106	85/106	89/106	88/106	86/106	77/106	80/106	93/106	76/106	89/106	91/106	95/106	84/106	89/106	92/106	99/106	99/106	99/106	99/106	99/106	99/106	
1222x	88/106	87/106	92/106	89/106	90/106	80/106	94/106	97/106	81/106	88/106	80/106	93/106	76/106	89/106	91/106	95/106	84/106	89/106	92/106	99/106	99/106	99/106	99/106	99/106	99/106	
1237f	87/106	84/106	91/106	86/106	87/106	80/106	93/106	97/106	81/106	88/106	80/106	93/106	76/106	89/106	91/106	95/106	84/106	89/106	92/106	99/106	99/106	99/106	99/106	99/106	99/106	
1242y	74/106	75/106	76/106	73/106	74/106	75/106	79/106	79/106	77/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	77/106	79/106	
1342y	85/106	84/106	89/106	88/106	89/106	82/106	91/106	92/106	86/106	80/106	80/106	89/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	
1458f	89/106	86/106	91/106	88/106	89/106	82/106	91/106	92/106	86/106	80/106	80/106	89/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	83/106	
TR	87/106	84/106	89/106	86/106	87/106	84/106	95/106	94/106	80/106	88/106	78/106	92/106	81/106	95/106	97/106	100/106	98/106	97/106	94/106	99/106	98/106	87/106	100/106	100/106	100/106	

A3.22. QA For John 11 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR		
041s	100.0																										
489z	95.3	100.0																									
1313y	88.7	87.7	100.0																								
726y	85.8	86.8	89.6	100.0																							
1113x	84.9	84.0	84.9	85.8	100.0																						
1319x	80.2	81.1	84.0	83.0	85.8	100.0																					
045s	82.1	79.2	84.9	80.2	79.2	74.5	100.0																				
10y	81.1	80.2	83.0	80.2	81.1	80.2	85.8	100.0																			
f1s	71.7	67.0	67.9	65.1	66.0	60.4	72.6	70.8	100.0																		
f13s	75.5	72.6	81.1	74.5	73.6	70.8	80.2	77.4	74.5	100.0																	
157x	69.8	68.9	72.6	67.9	67.9	73.6	75.5	72.6	75.5	79.2	100.0																
60x	78.3	77.4	82.1	80.2	78.3	74.5	85.8	84.9	73.6	79.2	74.5	100.0															
1424x	63.8	62.9	67.6	69.5	71.4	71.4	73.3	75.2	59.0	65.7	66.7	75.2	100.0														
1247y	81.1	82.1	84.9	84.0	81.1	78.3	86.8	84.0	69.8	84.0	71.7	85.8	72.4	100.0													
2382y	83.0	84.0	86.8	85.8	83.0	80.2	88.7	85.8	71.7	84.0	73.6	89.6	76.2	96.2	100.0												
1514z	84.0	81.1	87.7	84.9	84.0	79.2	91.5	88.7	74.5	81.1	72.6	86.8	75.2	89.6	91.5	100.0											
1194f	83.0	80.2	83.0	80.2	81.1	78.3	85.8	96.2	73.6	81.1	77.4	87.7	75.2	89.6	91.5	100.0											
1202f	84.0	81.1	88.7	83.0	84.0	77.4	89.6	91.5	73.6	84.0	77.4	88.7	72.4	86.8	87.7	90.6	100.0										
1220x	79.2	78.3	84.9	84.0	84.9	80.2	84.0	83.0	72.6	81.1	72.6	84.0	74.3	84.0	85.8	86.8	83.0	87.7	100.0								
1222x	83.0	82.1	86.8	84.0	84.9	82.1	88.7	87.7	73.6	82.1	75.5	89.6	80.0	92.5	96.2	93.4	89.6	90.6	89.6	100.0							
1237f	82.1	79.2	85.8	81.1	82.1	75.5	87.7	91.5	76.4	83.0	74.5	87.7	72.4	85.8	87.7	92.5	93.4	95.3	88.7	89.6	100.0						
1242y	69.8	70.8	71.7	68.9	69.8	70.8	76.4	74.5	74.5	72.6	76.4	72.6	73.3	75.5	77.4	80.2	76.4	75.5	74.5	81.1	76.4	100.0					
1342y	80.2	79.2	84.0	83.0	84.0	81.1	85.8	86.8	75.5	81.1	75.5	84.0	79.0	87.7	89.6	90.6	86.8	87.7	90.6	87.7	82.1	100.0					
1458f	84.0	81.1	85.8	83.0	84.0	77.4	92.5	90.6	75.5	82.1	73.6	89.6	77.1	89.6	91.5	96.2	92.5	93.4	87.7	93.4	78.3	90.6	100.0				
TR	82.1	79.2	84.0	81.1	82.1	79.2	89.6	88.7	75.5	83.0	73.6	86.8	77.1	89.6	91.5	94.3	92.5	91.5	88.7	93.4	82.1	94.3	94.3	100.0			



A3.23. QA for John 12 with Byzantine MSS  
(Fractional Agreement)

041s	98/98	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157k	60x	1424x	1247y	2382y	1514z	1194f	1202z	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	93/98	98/98	98/98	85/98	81/98	90/98	98/98	11/98	98/98	98/98	98/98	95/95	98/98	98/98	98/98	98/98	98/98	98/98	98/98	98/98	98/98	98/98	98/98	98/98	98/98	TR
1313y	87/98	76/98	81/98	76/98	85/98	77/98	80/98	70/98	71/98	70/98	63/98	81/85	74/98	82/98	91/98	86/98	86/98	86/98	82/98	81/98	81/98	80/98	81/98	81/98	81/98	TR
726y	76/98	78/98	85/98	78/98	83/98	85/98	80/98	80/98	83/98	84/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	TR
1113x	78/98	79/98	85/98	85/98	83/98	85/98	80/98	80/98	83/98	84/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	TR
1319x	74/98	75/98	79/98	74/98	83/98	85/98	80/98	80/98	83/98	84/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	85/98	TR
045s	70/98	70/98	79/98	74/98	73/98	70/98	80/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	TR
10y	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	62/98	TR
f1s	68/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	TR
f13s	68/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	66/98	67/98	TR
157k	72/98	69/98	69/98	70/98	72/98	69/98	70/98	72/98	69/98	70/98	72/98	69/98	70/98	72/98	69/98	70/98	72/98	69/98	70/98	72/98	69/98	70/98	72/98	69/98	70/98	TR
60x	61/95	61/95	62/95	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	66/98	TR
1424x	56/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	58/98	TR
1247y	68/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	69/98	TR
2382y	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	70/98	TR
1514z	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	71/98	TR
1194f	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	63/98	TR
1202z	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	68/98	TR
1220x	71/98	69/98	76/98	75/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	TR
1222x	68/98	66/98	79/98	74/98	77/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	77/98	74/98	TR
1237f	65/98	63/98	74/98	71/98	74/98	73/98	79/98	73/98	79/98	73/98	79/98	73/98	79/98	73/98	79/98	73/98	79/98	73/98	79/98	73/98	79/98	73/98	79/98	73/98	79/98	TR
1242y	67/98	64/98	76/98	75/98	74/98	70/98	77/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	TR
1342y	67/98	64/98	76/98	75/98	74/98	70/98	77/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	79/98	TR
1458f	65/98	61/98	74/98	74/98	73/98	74/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	81/98	TR
TR	70/98	66/98	79/98	78/98	81/98	79/98	86/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	82/98	TR

A3.24. QA for John 12 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	100.0																									
489z	94.9	100.0																								
1313y	88.8	86.7	100.0																							
726y	77.6	77.6	82.7	100.0																						
1113x	79.6	79.6	86.7	91.8	100.0																					
1319x	75.5	76.5	82.7	84.7	86.7	100.0																				
045s	71.4	71.4	80.6	75.5	79.6	78.6	100.0																			
10y	63.3	63.3	72.4	73.5	74.5	81.6	100.0																			
f1s	69.4	67.3	72.4	74.5	71.4	75.5	72.4	100.0																		
f13s	69.4	68.4	70.4	67.3	71.4	67.3	65.3	58.2	71.4	100.0																
157x	73.5	70.4	71.4	73.5	73.5	70.4	68.4	64.3	72.4	60.0	100.0															
60x	64.2	64.2	75.8	80.0	78.9	83.2	81.1	72.6	60.0	67.4	100.0															
1424x	57.1	59.2	68.4	67.3	71.4	72.4	72.4	61.2	54.1	60.2	71.6	100.0														
1247y	69.4	70.4	80.6	77.6	80.6	84.7	89.8	84.7	66.3	66.3	85.3	74.5	100.0													
2382y	71.4	71.4	82.7	79.6	85.7	81.6	89.8	84.7	64.3	67.3	89.5	75.5	93.9	100.0												
1514z	72.4	72.4	81.6	84.7	86.7	82.7	90.8	86.7	71.4	88.4	88.4	76.5	90.8	92.9	100.0											
1194f	64.3	64.3	75.5	72.4	75.5	74.5	82.7	95.9	71.4	59.2	65.3	82.1	68.4	84.7	87.8	100.0										
1202f	69.4	65.3	78.6	75.5	78.6	83.7	85.7	76.5	67.3	66.3	83.2	69.4	86.7	88.8	88.8	100.0										
1220x	72.4	70.4	77.6	76.5	77.6	75.5	74.5	72.4	69.4	71.4	75.8	66.3	79.6	81.6	81.6	87.8	100.0									
1222x	69.4	67.3	80.6	75.5	78.6	89.8	87.8	74.5	65.3	66.3	85.3	73.5	90.8	92.9	90.8	89.8	91.8	94.9	82.7	79.6	82.7	88.8	100.0			
1237f	66.3	64.3	75.5	72.4	75.5	74.5	80.6	84.7	68.4	67.3	82.1	66.3	82.7	85.7	85.7	88.8	100.0									
1242y	68.4	64.3	77.6	72.4	75.5	71.4	78.6	76.5	80.6	75.5	75.8	64.3	79.6	81.6	81.6	87.8	100.0									
1342y	67.3	65.3	76.5	76.5	79.6	76.5	82.7	82.7	72.4	63.3	85.3	72.4	86.7	89.8	89.8	88.8	92.9	88.8	80.6	82.7	85.7	88.8	100.0			
1458f	66.3	62.2	75.5	74.5	77.6	75.5	82.7	86.7	71.4	62.2	82.1	68.4	85.7	87.8	89.8	88.8	92.9	88.8	78.6	82.7	85.7	88.8	100.0			
TR	71.4	67.3	80.6	79.6	82.7	80.6	87.8	83.7	76.5	69.4	70.4	85.3	73.5	90.8	92.9	92.9	86.7	93.9	83.7	93.9	88.8	88.8	92.9	92.9	100.0	

A3.25. QA for John 13 with Byzantine MSS  
(Fractional Agreement)

041s	84/ 84	489z	1313y	726y	1113x	1319x	045s	10y	ε1s	ε13s	157x	60x	1424x	1247y	2302x	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	77/ 84	84/ 84	84/ 84	75/ 84	70/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84	84/ 84
1313y	66/ 84	65/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84
1113x	63/ 84	64/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84
045s	65/ 84	64/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84
10y	62/ 84	63/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84	63/ 84	62/ 84
ε1s	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84	58/ 84	64/ 84	58/ 84
ε13s	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82	56/ 82	60/ 82	56/ 82
157x	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84	56/ 84	58/ 84	56/ 84
60x	49/ 84	50/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84	50/ 84	49/ 84
1424x	62/ 84	61/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84	61/ 84	62/ 84
1247y	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84
2302x	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84	65/ 84	63/ 84	65/ 84
1514z	65/ 84	66/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84	66/ 84	65/ 84
1194f	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84	60/ 84	62/ 84	60/ 84
1202f	63/ 84	64/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84	64/ 84	63/ 84
1220x	65/ 84	64/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84	64/ 84	65/ 84
1222x	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84	63/ 84
1237f	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84	65/ 84	67/ 84	65/ 84
1242y	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84
1342y	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84	62/ 84	65/ 84	62/ 84
1458f	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84	62/ 84	64/ 84	62/ 84
TR	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84	63/ 84	65/ 84	63/ 84

A3.26. QA for John 13 with Byzantine MSS  
(Percentile Agreement)

041s	100.0	041s	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1458f	TR	
489z	91.7	100.0	89.3	89.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1313y	89.3	89.3	77.4	77.4	83.3	83.3	85.7	90.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
726y	78.6	77.4	73.8	73.8	81.0	81.0	86.9	90.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1113x	75.0	73.8	81.0	81.0	85.7	85.7	90.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1319x	77.4	76.2	81.0	81.0	86.9	86.9	90.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
045s	77.4	75.0	76.2	76.2	76.2	76.2	71.4	73.8	84.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
10y	73.8	73.8	79.8	79.8	76.2	76.2	71.4	73.8	84.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
fls	76.2	69.0	73.8	73.8	72.6	72.6	69.0	73.8	76.2	77.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
fl3s	72.3	69.9	74.7	74.7	78.3	78.3	69.9	73.5	72.3	73.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
157x	66.7	66.7	67.9	67.9	69.0	69.0	63.1	65.5	70.2	73.8	70.2	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
60x	73.8	72.6	77.4	77.4	79.8	79.8	72.6	77.4	86.9	85.7	75.0	74.7	71.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1424x	58.3	59.5	63.1	63.1	65.5	65.5	70.2	71.4	77.4	72.6	63.1	61.4	56.0	76.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1247y	75.0	77.4	81.0	81.0	82.1	82.1	75.0	77.4	85.7	86.9	76.2	69.9	69.0	88.1	72.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
2382y	75.0	76.2	81.0	81.0	83.3	83.3	76.2	78.6	85.7	86.9	76.2	71.1	70.2	89.3	72.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1514z	77.4	78.6	81.0	81.0	81.0	81.0	76.2	78.6	89.3	95.2	77.4	72.3	73.8	88.1	75.0	77.4	91.7	92.9	94.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1194f	73.8	71.4	77.4	77.4	77.4	77.4	72.6	77.4	89.3	95.2	77.4	72.3	73.8	88.1	75.0	77.4	91.7	92.9	94.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1202f	75.0	73.8	78.6	78.6	81.0	81.0	76.2	78.6	89.3	95.2	77.4	75.9	75.0	91.7	75.0	89.3	90.5	95.2	94.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1220x	77.4	76.2	83.3	83.3	81.0	81.0	76.2	78.6	82.1	79.8	75.9	71.4	79.8	82.1	83.3	83.3	83.3	83.3	81.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1222x	75.0	75.0	81.0	81.0	79.8	79.8	73.8	78.6	90.5	91.7	81.0	75.0	75.9	88.1	88.1	88.1	88.1	88.1	81.0	100.0	100.0	100.0	100.0	100.0	100.0	TR
1237f	79.8	77.4	83.3	83.3	82.1	82.1	78.6	81.0	90.5	91.7	78.6	75.0	75.9	89.3	89.3	89.3	89.3	89.3	81.0	95.2	94.0	94.0	94.0	94.0	94.0	TR
1242y	77.4	75.0	81.0	81.0	83.3	83.3	78.6	85.7	88.1	86.9	83.3	75.9	72.6	86.9	86.9	86.9	86.9	86.9	81.0	92.9	90.5	90.5	90.5	90.5	90.5	TR
1342y	77.4	73.8	78.6	78.6	81.0	81.0	76.2	79.8	90.5	85.7	79.8	71.1	70.2	89.3	77.4	89.3	90.5	92.9	90.5	92.9	90.5	92.9	90.5	90.5	90.5	TR
1458f	76.2	73.8	82.1	82.1	78.6	78.6	75.0	79.8	86.9	90.5	79.8	74.7	73.8	85.7	71.4	86.9	86.9	86.9	81.0	94.0	94.0	94.0	94.0	94.0	94.0	TR
TR	77.4	75.0	81.0	81.0	81.0	81.0	76.2	81.0	89.3	83.3	73.5	72.6	89.3	78.6	90.5	90.5	92.9	94.0	92.9	83.3	95.2	92.9	95.2	94.0	91.7	100.0

A3.27. QA for John 14 with Byzantine MSS  
(Fractional Agreement)

041s	64/ 64	489z	1313y	726y	1113x	1319x	045s	10y	ϕ1s	ϕ13s	157x	60x	1424x	1247y	2382y	1314z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	58/ 63	63/ 63	64/ 64	62/ 62	64/ 64	64/ 64	64/ 64	64/ 64	61/ 61	64/ 64	64/ 64	64/ 64	64/ 64	61/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	TR
489z	58/ 64	55/ 63	51/ 61	57/ 62	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	TR
1313y	54/ 62	54/ 62	51/ 63	54/ 64	56/ 62	52/ 64	49/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
726y	54/ 62	54/ 62	51/ 63	54/ 64	56/ 62	52/ 64	49/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1113x	55/ 64	55/ 64	51/ 63	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	57/ 64	TR
1319x	51/ 64	48/ 63	54/ 64	49/ 62	51/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
045s	53/ 64	52/ 63	55/ 64	50/ 62	51/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
10y	50/ 64	51/ 63	56/ 64	50/ 62	51/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
ϕ1s	48/ 61	43/ 60	47/ 61	43/ 59	44/ 61	46/ 61	47/ 61	48/ 61	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
ϕ13s	50/ 64	46/ 63	53/ 64	46/ 62	48/ 64	47/ 64	49/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
157x	52/ 64	51/ 63	56/ 64	47/ 62	47/ 64	47/ 64	49/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
60x	50/ 64	51/ 63	56/ 64	50/ 62	51/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1424x	41/ 64	42/ 63	56/ 64	47/ 64	41/ 62	44/ 64	45/ 64	49/ 64	45/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1247y	52/ 64	52/ 63	56/ 64	52/ 62	55/ 64	54/ 64	55/ 64	56/ 64	45/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
2382y	55/ 64	55/ 64	59/ 64	55/ 62	56/ 64	55/ 64	56/ 64	57/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1314z	53/ 64	53/ 64	57/ 64	53/ 62	54/ 64	53/ 64	54/ 64	55/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1194f	52/ 64	54/ 63	58/ 64	49/ 62	49/ 64	49/ 64	50/ 64	51/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1202f	50/ 64	48/ 63	56/ 64	51/ 62	52/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1220x	58/ 64	54/ 63	56/ 64	51/ 62	52/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1222x	59/ 64	51/ 63	58/ 64	50/ 62	53/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1237f	53/ 64	51/ 63	58/ 64	53/ 62	53/ 64	53/ 64	53/ 64	53/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1242y	53/ 64	51/ 63	57/ 64	51/ 62	54/ 64	51/ 64	53/ 64	53/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1342y	52/ 64	49/ 63	53/ 64	49/ 62	51/ 64	50/ 64	50/ 64	50/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
1458f	54/ 64	52/ 63	58/ 64	52/ 62	55/ 64	52/ 64	53/ 64	53/ 64	46/ 61	47/ 61	48/ 61	49/ 61	48/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	47/ 61	TR
TR	53/ 64	51/ 63	57/ 64	51/ 62	54/ 64	51/ 64	53/ 64	53/ 64	47/ 61	51/ 64	49/ 64	55/ 64	48/ 64	57/ 64	60/ 64	60/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	64/ 64	TR

A3.28. QA for John 14 with Byzantine MSS  
(Percentile Agreement)

	041s	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR			
041s	100.0	92.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
489z	92.1	100.0	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	
1313y	90.6	87.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
726y	87.1	83.6	87.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1113x	85.9	81.0	89.1	89.1	91.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1319x	79.7	76.2	84.4	90.3	89.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
045s	82.8	82.5	85.9	79.0	81.2	76.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10y	78.1	81.0	87.5	80.6	79.7	78.1	85.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f1s	78.7	71.7	71.0	72.9	72.1	75.4	77.0	78.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
f13s	78.1	73.0	82.8	74.2	75.0	73.4	73.4	76.6	81.2	75.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
157x	81.2	81.0	81.2	75.8	73.4	73.4	78.1	85.9	87.5	70.5	73.4	78.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60x	78.1	81.0	87.5	80.6	79.7	78.1	85.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1424x	64.1	66.7	73.4	66.1	68.8	70.3	68.8	76.6	67.2	70.3	70.3	76.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1247y	81.2	82.5	87.5	83.9	85.9	85.9	85.9	90.6	92.2	78.7	78.1	82.8	92.2	78.1	95.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2382y	85.9	87.3	92.2	88.7	87.5	85.9	85.9	90.6	92.2	78.7	78.1	82.8	92.2	78.1	95.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1514z	82.8	84.1	89.1	85.5	84.4	82.8	82.8	90.6	93.8	75.4	76.6	81.2	90.6	76.6	70.3	84.4	89.1	89.1	84.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194f	81.2	85.7	90.6	83.9	82.8	81.2	81.2	90.6	93.8	75.4	76.6	81.2	90.6	76.6	70.3	84.4	89.1	89.1	84.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202f	78.1	76.2	81.2	79.0	76.6	76.6	76.6	82.8	84.4	72.1	67.2	75.0	84.4	70.3	84.4	89.1	89.1	84.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1220x	90.6	85.7	87.5	82.3	81.2	78.1	78.1	87.5	82.8	82.0	75.0	82.8	82.8	68.8	85.9	90.6	87.5	85.9	82.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1237f	84.4	84.1	90.6	85.5	82.8	82.8	82.8	93.8	78.7	73.4	84.4	90.6	76.6	71.9	89.1	93.8	93.8	89.1	82.8	89.1	90.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1242y	82.8	81.0	89.1	82.3	84.4	79.7	87.5	85.9	75.4	81.2	76.6	85.9	71.9	89.1	93.8	93.8	89.1	82.8	89.1	90.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1342y	81.2	77.8	82.8	79.0	79.7	78.1	82.8	78.1	75.4	76.6	73.4	78.1	70.3	84.4	85.9	85.9	81.2	76.6	84.4	89.1	93.8	82.8	89.1	100.0	100.0	100.0	100.0	100.0	100.0
1458f	84.4	82.5	90.6	83.9	85.9	84.4	84.4	85.9	77.0	79.7	76.6	85.9	75.0	89.1	93.8	93.8	89.1	82.8	89.1	90.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TR	82.8	81.0	89.1	82.3	84.4	79.7	87.5	85.9	77.0	79.7	76.6	85.9	75.0	89.1	93.8	93.8	89.1	82.8	89.1	90.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

A3.29. QA for John 15 with Byzantine MSS  
(Fractional Agreement)

041s	49/49	489z	49/49	1313y	726y	1113x	1319x	045s	10y	fi5	fi3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
489z	44/49	46/49	41/49	46/49	41/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49	49/49
1313y	45/49	40/49	36/49	42/49	44/49	43/49	39/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49
1113x	39/49	36/49	42/49	44/49	43/49	39/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49
1319x	43/49	38/49	46/49	43/49	42/49	36/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49
045s	43/49	39/49	43/49	43/49	43/49	36/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49
10y	42/49	39/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49
fi5	47/49	42/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49
fi3s	39/49	34/49	38/49	43/49	40/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49	37/49
157x	43/49	39/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49	41/49
60x	44/49	39/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49	35/49
1424x	34/49	39/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49
2382y	44/49	40/49	47/49	44/49	44/49	40/49	42/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49
1514z	45/49	40/49	48/49	45/49	45/49	43/49	43/49	47/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49	44/49
1194f	43/49	38/49	46/49	43/49	42/49	38/49	42/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49
1202f	42/49	39/49	45/49	45/49	45/49	42/49	42/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49
1220x	44/49	41/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49
1222x	44/49	39/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49
1237f	42/49	37/49	45/49	45/49	45/49	42/49	42/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49	45/49
1242y	44/49	36/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49
1342y	39/49	36/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49	42/49
1458f	43/49	40/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49	46/49
TR	44/49	41/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49	47/49

A3.30. QA For John 15 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1213y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1342y	1458f	TR	
041s	100.0	489z	1213y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1342y	1458f	TR	
489z	89.8	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	83.7	100.0	TR
1213y	93.9	81.6	93.9	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
726y	91.8	73.5	85.7	83.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
1113x	79.6	73.5	85.7	83.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
1319x	87.8	85.7	89.8	87.8	79.6	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
045s	87.8	77.6	93.9	87.8	79.6	83.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
10y	85.7	79.6	87.8	85.7	73.5	85.7	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
f1s	95.9	85.7	89.8	87.8	75.5	83.7	83.7	81.6	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
f13s	79.6	69.4	81.6	79.6	71.4	75.5	75.5	79.6	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
157x	87.8	77.6	87.8	81.6	75.5	77.6	85.7	79.6	83.7	73.5	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
60x	89.8	79.6	95.9	89.8	81.6	85.7	93.9	89.8	85.7	79.6	87.8	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
1424x	69.4	67.3	71.4	73.5	73.5	61.2	73.5	63.3	65.3	65.3	71.4	71.4	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
1247y	85.7	79.6	91.8	85.7	77.6	85.7	89.8	91.8	85.7	79.6	87.8	98.0	67.3	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
2382y	89.8	79.6	95.9	89.8	81.6	85.7	93.9	91.8	85.7	79.6	89.8	98.0	71.4	95.9	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	TR
1514z	91.8	81.6	98.0	91.8	83.7	87.8	93.9	89.8	87.8	79.6	89.8	98.0	73.5	93.9	98.0	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
1194f	87.8	77.6	93.9	87.8	79.6	83.7	91.8	93.9	83.7	75.5	79.6	87.8	69.4	89.8	95.9	100.0	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
1202f	85.7	79.6	91.8	85.7	73.5	85.7	85.7	87.8	81.6	73.5	87.8	87.8	63.3	83.7	87.8	89.8	89.8	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
1220x	89.8	83.7	87.8	85.7	73.5	85.7	89.8	87.8	85.7	83.7	89.8	91.8	67.3	87.8	91.8	89.8	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
1222x	89.8	79.6	95.9	89.8	81.6	85.7	89.8	87.8	85.7	83.7	89.8	91.8	67.3	87.8	91.8	89.8	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
1237f	85.7	75.5	91.8	85.7	77.6	81.6	89.8	87.8	85.7	83.7	91.8	91.8	67.3	87.8	91.8	89.8	85.7	100.0	85.7	100.0	85.7	100.0	85.7	100.0	TR
1242y	89.8	79.6	95.9	89.8	81.6	85.7	93.9	87.8	85.7	77.6	91.8	95.9	71.4	95.9	98.0	93.9	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	TR
1342y	79.6	73.5	85.7	83.7	79.6	79.6	83.7	81.6	79.6	71.4	81.6	69.4	81.6	81.6	87.8	83.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	TR
1458f	87.8	81.6	93.9	87.8	79.6	83.7	91.8	85.7	83.7	75.5	85.7	93.9	73.5	89.8	93.9	91.8	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	TR
TR	89.8	83.7	95.9	89.8	81.6	89.8	93.9	91.8	85.7	77.6	87.8	95.9	71.4	91.8	95.9	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	TR





A3.32. QA For John 16 with Byzantine MSS  
(Percentile Agreement)

041S	100.0	041S	489Z	1313Y	726Y	1113X	1319X	045S	10Y	F1S	F1S3	157X	60X	1424X	1247Y	2382Y	1514Z	1194F	1202F	1220X	1222X	1237F	1242Y	1342Y	1458F	TR
489Z	94.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1313Y	88.1	91.0	73.1	77.6	83.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
726Y	71.6	73.1	73.1	77.6	83.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1113X	73.1	74.6	77.6	83.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1319X	68.8	68.8	68.8	82.8	84.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
045S	79.1	80.6	86.6	83.6	88.1	78.1	75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10Y	73.1	74.6	80.6	82.1	76.1	65.6	85.1	86.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
F1S	74.6	74.6	80.6	73.1	76.1	65.6	85.1	86.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
F1S3	79.1	77.6	83.6	80.6	79.1	78.1	88.1	82.1	80.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
157X	85.1	83.6	83.6	79.1	79.1	73.4	88.1	82.1	82.1	88.1	82.1	85.1	85.1	82.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60X	73.1	74.6	77.6	80.6	82.1	75.0	88.1	85.1	79.1	82.1	82.1	82.1	82.1	82.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1424X	67.2	67.2	70.1	76.1	80.6	75.0	88.1	80.6	70.1	82.1	82.1	82.1	82.1	82.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1247Y	76.1	77.6	83.6	83.6	85.1	79.7	94.0	91.0	82.1	85.1	85.1	85.1	83.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2382Y	79.1	80.6	86.6	86.6	88.1	81.2	97.0	94.0	85.1	88.1	88.1	88.1	83.6	94.0	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1514Z	79.1	80.6	86.6	83.6	88.1	78.1	94.0	91.0	88.1	88.1	88.1	88.1	83.6	94.0	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1194F	76.1	77.6	83.6	80.6	85.1	75.0	94.0	94.0	88.1	88.1	82.1	82.1	82.1	82.1	91.0	94.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1202F	77.6	79.1	85.1	82.1	86.6	76.6	92.5	89.6	88.1	86.6	83.6	83.6	83.6	83.6	83.6	92.5	95.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1220X	80.6	79.1	88.1	77.6	79.1	75.0	88.1	88.1	79.1	82.1	85.1	82.1	74.6	88.1	91.0	88.1	85.1	86.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1222X	74.6	76.1	85.1	79.1	83.6	73.4	92.5	89.6	83.6	86.6	83.6	83.6	79.1	89.6	92.5	89.6	89.6	89.6	86.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1237F	77.6	79.1	85.1	85.1	89.6	79.7	92.5	89.6	86.6	86.6	83.6	86.6	79.1	89.6	92.5	89.6	89.6	89.6	86.6	86.6	100.0	100.0	100.0	100.0	100.0	100.0
1242Y	73.1	73.1	79.1	79.1	83.6	76.6	89.6	83.6	80.6	82.1	80.6	80.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	100.0	100.0	100.0	100.0	100.0	100.0
1342Y	74.6	76.1	82.1	77.6	82.1	75.0	88.1	85.1	80.6	82.1	82.1	82.1	71.6	85.1	88.1	89.6	86.6	86.6	86.6	86.6	100.0	100.0	100.0	100.0	100.0	100.0
1458F	76.1	77.6	83.6	80.6	82.1	78.1	88.1	88.1	85.1	88.1	80.6	80.6	76.1	86.6	88.1	91.0	94.0	94.0	92.5	82.1	86.6	82.1	86.6	86.6	86.6	100.0
TR	77.6	79.1	85.1	85.1	89.6	79.7	92.5	89.6	86.6	86.6	83.6	83.6	79.1	89.6	92.5	95.5	95.5	95.5	97.0	86.6	100.0	100.0	100.0	100.0	100.0	100.0

A3.33. QA for John 17 with Byzantine MSS  
(Fractional Agreement)

041s	041s	489z	1313y	726y	1113x	1319x	045s	10y	ε1s	ε1s	ε1s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
489z	41/ 51	52/ 52	52/ 52	50/ 50	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52	51/ 51	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52	51/ 51	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52	52/ 52
1313y	40/ 51	39/ 52	38/ 50	44/ 50	49/ 52	41/ 52	42/ 52	44/ 51	44/ 51	43/ 51	42/ 52	42/ 52	44/ 52	44/ 52	50/ 52	52/ 52	52/ 52	52/ 52	52/ 52	47/ 52	48/ 52	48/ 52	49/ 52	49/ 52	49/ 52	49/ 52
726y	32/ 50	31/ 50	42/ 52	45/ 50	40/ 52	39/ 52	41/ 52	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51
1113x	32/ 51	35/ 52	43/ 52	45/ 50	40/ 52	41/ 52	42/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52
1319x	33/ 51	36/ 52	43/ 52	45/ 50	40/ 52	41/ 52	42/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52
045s	32/ 51	31/ 52	40/ 52	35/ 50	40/ 52	41/ 52	42/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52
10y	32/ 51	37/ 52	38/ 52	35/ 50	40/ 52	41/ 52	42/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52
ε1s	32/ 51	34/ 52	41/ 52	39/ 50	39/ 52	40/ 52	41/ 52	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51	41/ 51
ε1s	36/ 51	34/ 52	42/ 52	39/ 50	40/ 52	41/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52
157x	40/ 51	41/ 52	42/ 52	37/ 50	40/ 52	41/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52
60x	34/ 51	33/ 52	40/ 52	39/ 50	40/ 52	41/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52	42/ 52
1424x	27/ 51	31/ 52	37/ 52	35/ 50	42/ 52	46/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52
1247y	33/ 51	34/ 52	45/ 52	41/ 50	47/ 52	46/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52
2382y	33/ 51	32/ 52	43/ 52	40/ 50	45/ 52	44/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52
1514z	34/ 51	33/ 52	44/ 52	41/ 50	46/ 52	45/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52
1194f	35/ 51	34/ 52	41/ 52	36/ 50	41/ 52	43/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52	45/ 52
1202f	33/ 51	32/ 52	39/ 52	34/ 50	39/ 52	38/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52
1220x	36/ 50	40/ 51	39/ 51	30/ 49	35/ 51	36/ 51	40/ 51	40/ 51	38/ 50	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51	44/ 51
1222x	32/ 51	35/ 52	40/ 52	39/ 50	44/ 52	43/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52
1237f	33/ 51	34/ 52	39/ 52	36/ 50	41/ 52	40/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52	43/ 52
1242y	34/ 51	33/ 52	40/ 52	37/ 50	42/ 52	41/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52
1342y	32/ 51	36/ 52	37/ 52	36/ 50	39/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52	40/ 52
1458f	34/ 51	33/ 52	40/ 52	35/ 50	40/ 52	39/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52	44/ 52
TR	34/ 51	33/ 52	40/ 52	37/ 50	42/ 52	41/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52	46/ 52

A3.34. QA for John 17 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	100.0																									
489z	80.4	100.0																								
1313y	78.4	75.0	100.0																							
726y	64.0	62.0	76.0	100.0																						
1113x	62.7	67.3	80.8	88.0	100.0																					
1319x	64.7	69.2	82.7	90.0	94.2	100.0																				
045s	62.7	59.6	76.9	70.0	76.9	78.8	100.0																			
10y	62.7	71.2	73.1	70.0	76.9	75.0	80.8	100.0																		
fls	68.6	65.4	78.8	72.0	75.0	78.8	75.0	80.8	100.0																	
fl3s	70.6	66.7	84.3	84.0	84.3	86.3	80.4	80.4	86.3	100.0																
157x	78.4	78.8	80.8	74.0	76.9	78.8	73.1	76.9	78.8	84.3	100.0															
60x	66.7	63.5	76.9	78.0	84.6	82.7	88.5	86.5	84.3	80.8	100.0															
1424x	52.9	59.6	71.2	70.0	80.8	78.8	82.7	78.8	73.1	80.8	100.0															
2382y	64.7	61.5	82.7	82.0	86.5	84.6	86.5	86.5	84.6	94.1	82.7	90.4	84.6	96.2	100.0											
1514z	66.7	63.5	84.6	82.0	88.5	86.5	88.5	86.5	92.2	84.6	92.3	86.5	98.1	98.1	100.0											
1194f	68.6	65.4	78.8	72.0	78.8	76.9	82.7	86.5	76.9	78.4	75.0	82.7	73.1	84.6	84.6	86.5	96.2	100.0								
1202f	64.7	61.5	75.0	68.0	75.0	73.1	82.7	86.5	76.9	78.4	75.0	82.7	73.1	84.6	84.6	86.5	96.2	100.0								
1220x	72.0	78.4	76.5	61.2	68.6	66.7	70.6	78.4	72.5	78.4	86.3	70.6	68.6	78.4	76.5	78.4	74.5	74.5	100.0							
1222x	62.7	67.3	76.9	78.0	84.6	82.7	84.6	88.5	78.8	84.3	84.6	88.5	80.8	90.4	90.4	92.3	90.4	90.4	80.4	100.0						
1237f	64.7	65.4	75.0	72.0	78.8	76.9	82.7	82.7	76.9	78.4	78.8	86.5	75.0	84.6	84.6	86.5	92.3	92.3	74.5	100.0						
1242y	66.7	63.5	76.9	74.0	80.8	78.8	88.5	88.5	78.8	84.3	80.8	88.5	78.8	90.4	90.4	92.3	94.2	94.2	80.4	100.0						
1342y	62.7	69.2	71.2	72.0	75.0	76.9	73.1	76.9	78.8	82.4	80.8	84.6	76.9	80.8	80.8	88.5	94.2	94.2	80.4	100.0						
1458f	66.7	63.5	76.9	70.0	76.9	75.0	84.6	88.5	75.0	80.4	80.8	84.6	75.0	86.5	86.5	88.5	94.2	94.2	80.4	100.0						
TR	66.7	63.5	76.9	74.0	80.8	78.8	88.5	88.5	78.8	84.3	80.8	88.5	78.8	90.4	90.4	92.3	94.2	94.2	80.4	100.0						

A3.35. QA for John 18 with Byzantine MSS  
(Fractional Agreement)

041s	041s	489z	1313v	726v	1113k	1319k	045s	10y	ε1s	ε13s	157x	60x	1424x	1247v	2382x	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
489z	84/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92
1313v	85/ 92	79/ 92	78/ 92	78/ 92	83/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92
726v	79/ 92	71/ 92	72/ 92	75/ 92	78/ 92	78/ 92	78/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92	77/ 92
1113k	76/ 92	72/ 92	72/ 92	75/ 92	83/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92	92/ 92
1319k	73/ 92	69/ 92	72/ 92	74/ 92	74/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92
045s	75/ 92	67/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92	74/ 92
10y	75/ 92	71/ 92	73/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92
ε1s	78/ 92	70/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92
ε13s	66/ 92	59/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92	65/ 92
157x	75/ 92	71/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92
60x	72/ 92	68/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92
1424x	67/ 92	61/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92	68/ 92
1247v	76/ 92	72/ 92	77/ 92	75/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92
2382x	75/ 92	71/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92	76/ 92
1514z	78/ 92	74/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92	79/ 92
1194f	79/ 92	71/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92	78/ 92
1202f	74/ 92	68/ 92	72/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92
1220x	72/ 92	66/ 92	72/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92	66/ 92
1222x	73/ 92	71/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92	72/ 92
1237f	74/ 92	70/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92	73/ 92
1242y	74/ 92	65/ 92	69/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92	67/ 92
1342y	73/ 92	68/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92	70/ 92
1458f	71/ 92	65/ 92	72/ 92	70/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92	71/ 92
TR	76/ 92	68/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92	75/ 92

A3.36. QA for John 18 with Byzantine MSS  
(Percentile Agreement)

041S	100.0	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041S	100.0	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	91.3	100.0																								
1313y	92.4	77.2	100.0																							
726y	85.9	78.3	84.8	100.0																						
1113x	82.6	81.5	90.2	100.0	100.0																					
1319x	79.3	75.0	78.3	84.8	88.0	100.0																				
045s	81.5	72.8	80.4	80.4	73.9	73.9	100.0																			
10y	81.5	77.2	82.6	82.6	83.7	73.9	100.0																			
f1s	84.8	76.1	79.3	77.2	76.1	72.8	72.8	75.0	100.0																	
f13s	71.7	64.1	70.7	70.7	72.8	69.6	72.8	79.3	77.2	100.0																
157x	81.5	77.2	82.6	76.1	77.2	71.7	76.1	82.6	79.3	76.1	100.0															
60x	78.3	73.9	77.2	79.3	84.8	75.0	83.7	92.4	73.9	77.2	79.3	100.0														
1424x	72.8	66.3	73.9	73.9	77.2	71.7	78.3	84.8	68.5	72.8	73.9	77.2	79.3	100.0												
1247y	82.6	78.3	83.7	81.5	82.6	75.0	88.0	92.4	73.9	78.3	85.9	91.3	81.5	100.0												
2382y	81.5	77.2	82.6	80.4	81.5	73.9	87.0	91.3	72.8	77.2	84.8	90.2	80.4	98.9	100.0											
1514z	85.9	77.2	84.8	84.8	85.9	78.3	91.3	93.5	77.2	81.5	82.6	92.4	82.6	96.7	95.7	100.0										
1194f	80.4	73.9	81.5	79.3	80.4	75.0	85.9	90.2	73.9	78.3	83.7	84.8	81.5	89.1	88.0	90.2	100.0									
1202f	77.2	72.8	78.3	76.1	77.2	71.7	75.0	87.0	70.7	75.0	80.4	83.7	78.3	90.2	89.1	88.0	90.2	100.0								
1220x	78.3	71.7	75.0	71.7	75.0	69.6	79.3	77.2	73.9	78.3	75.0	78.3	70.7	80.4	79.3	83.7	78.3	75.0	100.0							
1222x	79.3	77.2	78.3	73.9	73.9	73.9	85.9	89.1	70.7	78.3	85.9	78.3	80.4	89.1	88.0	90.2	89.1	88.0	77.2	100.0						
1237f	80.4	76.1	79.3	79.3	80.4	75.0	85.9	88.0	75.0	78.3	82.6	84.8	79.3	89.1	88.0	90.2	81.3	88.0	79.3	100.0						
1242y	76.1	70.7	75.0	72.8	75.0	71.7	79.3	79.3	73.9	77.2	72.8	79.3	75.0	80.4	81.5	83.7	80.4	82.6	77.2	83.7	80.4	100.0				
1342y	79.3	73.9	76.1	71.7	78.3	70.7	78.3	78.3	73.9	77.2	75.0	78.3	73.9	80.4	86.0	87.0	82.6	76.1	82.6	76.1	80.4	77.2	100.0			
1458f	77.2	70.7	78.3	76.1	77.2	73.9	82.6	89.1	70.7	79.3	82.6	85.9	80.4	86.0	87.0	89.1	92.4	87.0	77.2	91.3	88.0	81.5	76.1	100.0		
TR	82.6	73.9	81.5	81.5	82.6	77.2	90.2	88.0	80.4	82.6	81.5	87.0	81.5	89.1	89.0	92.4	91.3	88.0	82.6	88.0	91.3	89.1	83.7	88.0	100.0	

A3.37. QA for John 19 with Byzantine MSS  
(Fractional Agreement)

041e	489z	1313y	726y	1113x	1319k	045s	10y	f1s	f13s	157k	60k	1424k	1247y	2302y	1514z	1194f	1202f	1220k	1222k	1237f	1242y	1342y	1458f	TR	
041e	109/112	112/112	100/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	TR
489z	86/112	85/112	85/112	81/112	79/112	99/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	TR
1313y	99/112	100/112	100/112	100/112	102/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	TR
1113x	86/112	87/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	TR
1319k	90/112	87/112	81/112	100/112	100/112	102/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	112/112	TR
045s	83/112	82/112	86/112	82/112	86/112	88/112	88/112	87/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	90/112	TR
10y	80/112	77/112	73/112	72/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	75/112	TR
f1s	83/112	80/112	76/112	78/112	79/112	83/112	83/112	82/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	81/112	TR
f13s	76/112	73/112	73/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	72/112	TR
157k	83/112	80/112	81/112	74/112	74/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	77/112	TR
60k	71/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	69/112	TR
1424k	78/111	77/111	81/111	83/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	89/111	TR
1247y	88/112	85/112	85/112	85/112	82/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	TR
2302y	94/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	86/112	TR
1514z	87/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	TR
1194f	79/112	76/112	76/112	77/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	78/112	TR
1202f	82/112	79/112	79/112	79/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	TR
1220k	84/112	83/112	82/112	81/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	TR
1222k	83/112	80/112	80/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	84/112	TR
1237f	84/112	81/112	85/112	84/112	89/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	92/112	TR
1242y	81/112	81/112	83/112	79/112	80/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	83/112	TR
1342y	83/112	80/112	78/112	78/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	87/112	TR
1458f	79/112	76/112	82/112	79/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	82/112	TR
TR	84/112	81/112	85/112	84/112	90/112	92/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	97/112	TR

A3.38. QA For John 19 with Byzantine MSS  
(Percentile Agreement)

041s	100.0	041s	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
489z	97.3	100.0	88.4	89.3	100.0	88.4	89.3	100.0	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8
1313y	76.8	75.9	72.3	72.3	88.4	100.0	100.0	100.0	75.9	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	
1113x	80.4	77.7	72.3	89.3	91.1	100.0	100.0	100.0	75.9	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	
1319x	74.1	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	76.8	73.2	
045s	71.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	
10y	74.1	71.4	71.4	67.9	69.6	70.5	74.1	67.9	67.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
fls	67.9	65.2	65.2	64.3	67.0	73.2	70.5	74.1	70.5	74.1	70.5	74.1	70.5	74.1	70.5	74.1	70.5	74.1	70.5	74.1	70.5	74.1	70.5	74.1	70.5	74.1	
fl3s	74.1	71.4	71.4	67.9	69.6	70.5	74.1	67.9	67.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
157x	74.1	71.4	71.4	67.9	69.6	70.5	74.1	67.9	67.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
60x	63.4	60.7	66.1	67.0	68.8	74.1	76.8	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	
1424x	70.3	69.4	73.0	74.8	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	
1447y	78.6	75.9	75.9	78.6	82.1	83.9	83.9	83.9	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	
2382y	81.2	78.6	78.6	81.2	84.8	86.6	86.6	86.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	
1514z	77.7	75.0	76.8	76.8	80.4	83.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	
1194f	70.5	67.9	67.9	68.8	69.6	74.1	77.7	77.7	90.2	68.8	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	
1202f	73.2	70.5	70.5	70.5	73.2	77.7	80.4	80.4	74.1	75.9	68.8	75.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	
1220x	75.0	74.1	73.2	72.3	74.1	75.9	75.9	75.9	72.3	73.2	68.8	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	
1222x	74.1	71.4	71.4	75.0	78.6	80.4	83.9	84.8	75.0	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
1237f	75.0	72.3	72.3	75.9	79.5	82.1	82.1	82.1	75.9	75.9	71.4	76.8	75.9	79.3	83.0	85.7	83.9	84.8	89.3	77.7	75.0	83.0	80.4	100.0	100.0	100.0	
1242y	75.0	72.3	74.1	70.5	71.4	74.1	74.1	78.6	75.0	74.1	73.2	70.5	72.1	78.6	81.2	81.2	79.5	81.2	80.4	75.0	84.8	80.4	75.9	100.0	100.0	100.0	
1342y	74.1	71.4	69.6	73.2	77.7	77.7	82.1	82.1	81.2	81.2	70.5	73.2	70.5	75.7	79.5	82.1	81.2	81.2	83.9	83.9	75.0	84.8	84.8	79.5	76.8	100.0	
1458f	70.5	67.9	73.2	75.0	73.2	75.9	82.1	86.6	86.6	86.6	75.0	76.8	75.0	81.1	80.4	83.0	84.8	89.3	85.7	76.8	90.2	98.4	83.9	86.6	85.7	100.0	
TR	75.0	72.3	75.9	75.0	80.4	82.1	86.6	79.5	81.2	76.8	75.0	75.9	80.2	82.1	84.8	86.6	82.1	85.7	76.8	90.2	98.4	83.9	86.6	85.7	100.0	100.0	



A3.39. QA for John 20 with Byzantine MSS  
(Fractional Agreement)

041s	43/43	489z	43/43	1313y	726y	1113x	1319x	045s	10y	ε1s	ε13s	157x	60x	1424x	1247y	2302y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR
489z	39/43	38/43	43/43	34/43	41/43	42/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43	43/43
1313y	34/43	35/43	34/43	32/43	36/43	38/43	34/43	38/43	37/43	35/43	38/43	38/43	35/43	37/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43
726y	34/43	30/43	32/43	32/43	30/43	30/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43
1113x	31/43	30/43	39/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1319x	31/43	36/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43	38/43
045s	39/43	35/43	32/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43
10y	36/43	31/43	32/43	32/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43
ε1s	32/43	31/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43
ε13s	32/43	31/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43
157x	37/43	33/43	34/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43	35/43
60x	34/43	33/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43
1424x	30/43	31/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43	34/43
1247y	35/43	34/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
2302y	37/43	36/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1514z	37/43	36/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1194f	35/43	34/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1202f	35/43	34/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1220x	35/43	34/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1222x	35/43	34/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1237f	35/43	34/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43	37/43
1242y	31/43	30/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43
1342y	31/43	30/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43	31/43
1458f	36/43	35/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43	36/43
TR	33/43	30/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43	33/43

A3.40. QA For John 20 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	fls	fl3s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	100.0																									
489z	93.0	100.0																								
1313y	90.7	88.4	100.0																							
726y	79.1	81.4	79.1	100.0																						
1113x	72.1	76.7	79.1	95.3	100.0																					
1319x	72.1	69.8	74.4	83.7	83.7	100.0																				
045s	90.7	83.7	90.7	88.4	88.4	79.1	100.0																			
10y	83.7	81.4	88.4	86.0	86.0	81.4	88.4	100.0																		
fls	74.4	72.1	74.4	76.7	76.7	72.1	79.1	81.4	100.0																	
fl3s	74.4	72.1	79.1	86.0	86.0	81.4	83.7	86.0	81.4	100.0																
157x	86.0	83.7	81.4	88.4	88.4	79.1	90.7	88.4	83.7	88.4	100.0															
60x	79.1	76.7	79.1	90.7	90.7	86.0	86.0	81.4	86.0	81.4	88.4	100.0														
1424x	69.8	72.1	79.1	81.4	81.4	76.7	79.1	81.4	72.1	81.4	79.1	81.4	100.0													
1247y	81.4	79.1	86.0	88.4	88.4	83.7	86.0	93.0	83.7	88.4	86.0	83.7	83.7	100.0												
2382y	86.0	83.7	86.0	93.0	93.0	83.7	90.7	93.0	83.7	88.4	90.7	93.0	83.7	95.3	100.0											
1514z	86.0	83.7	86.0	93.0	93.0	83.7	93.0	83.7	86.0	83.7	86.0	83.7	83.7	90.7	90.7	100.0										
1194f	81.4	79.1	86.0	83.7	83.7	79.1	86.0	97.7	79.1	83.7	86.0	83.7	79.1	90.7	90.7	100.0										
1202f	81.4	79.1	86.0	88.4	88.4	83.7	93.0	93.0	79.1	83.7	86.0	83.7	81.4	86.0	86.0	81.4	86.0	100.0								
1220x	76.7	76.7	83.7	83.7	83.7	83.7	83.7	74.4	83.7	83.7	86.0	88.4	79.1	86.0	86.0	81.4	86.0	100.0								
1222x	76.7	74.4	76.7	88.4	88.4	79.1	86.0	83.7	74.4	83.7	86.0	88.4	79.1	90.7	95.3	86.0	90.7	100.0								
1237f	81.4	79.1	81.4	88.4	88.4	79.1	86.0	88.4	79.1	83.7	86.0	88.4	79.1	90.7	95.3	86.0	90.7	100.0								
1242y	76.7	74.4	81.4	88.4	88.4	83.7	86.0	88.4	74.4	88.4	86.0	88.4	83.7	95.3	90.7	86.0	90.7	100.0								
1342y	72.1	69.8	72.1	79.1	79.1	74.4	81.4	79.1	74.4	83.7	81.4	79.1	69.8	76.7	81.4	81.4	81.4	86.0	93.0	93.0	93.0	83.7	100.0			
1458f	83.7	81.4	83.7	95.3	95.3	86.0	90.7	81.4	90.7	93.0	93.0	83.7	86.0	93.0	97.7	86.0	81.4	81.4	81.4	81.4	81.4	81.4	90.7	88.4	100.0	
TR	76.7	69.8	76.7	83.7	83.7	79.1	86.0	79.1	69.8	79.1	81.4	83.7	74.4	81.4	86.0	86.0	81.4	81.4	81.4	81.4	81.4	81.4	90.7	86.0	81.4	100.0

A3.41. QA for John 21 with Byzantine MSS  
(Fractional Agreement)

041s	041s	489e	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
37/37	37/37	42/42	42/42	41/41	42/42	42/42	42/42	42/42	41/41	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42
489z	489z	42/42	42/42	41/41	42/42	42/42	42/42	42/42	41/41	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42
34/37	34/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37	37/37
1313y	1313y	26/41	31/41	33/41	37/42	36/42	36/42	36/42	36/41	37/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42
726y	726y	27/42	32/42	33/41	37/42	36/42	36/42	36/42	36/41	37/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42
1113x	1113x	29/37	30/42	35/42	39/42	39/42	39/42	39/42	39/41	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42
1319x	1319x	32/37	34/42	39/42	42/42	42/42	42/42	42/42	42/41	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42
045s	045s	28/37	30/42	35/42	39/42	39/42	39/42	39/42	39/41	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42
10y	10y	31/36	33/41	35/41	36/40	36/40	36/40	36/40	36/41	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40	36/40
f1s	f1s	30/37	31/42	35/42	39/42	39/42	39/42	39/42	39/41	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42
f13s	f13s	26/37	28/42	31/42	36/41	36/41	36/41	36/41	36/42	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41	36/41
157x	157x	28/37	29/42	34/42	38/41	38/41	38/41	38/41	38/42	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41	38/41
60x	60x	23/37	25/42	28/42	32/41	32/41	32/41	32/41	32/42	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41	32/41
1424x	1424x	26/36	32/38	30/38	31/41	31/41	31/41	31/41	31/42	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41	31/41
1247y	1247y	30/37	32/42	37/42	42/42	42/42	42/42	42/42	42/41	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42
2382y	2382y	30/37	32/42	37/42	42/42	42/42	42/42	42/42	42/41	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42
1514z	1514z	29/37	31/42	36/42	40/42	40/42	40/42	40/42	40/41	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42
1194f	1194f	29/37	31/42	36/42	40/42	40/42	40/42	40/42	40/41	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42	40/42
1202f	1202f	28/37	30/42	35/42	39/42	39/42	39/42	39/42	39/41	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42
1220x	1220x	28/37	30/42	35/42	39/42	39/42	39/42	39/42	39/41	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42
1222x	1222x	31/37	33/42	38/42	43/41	43/41	43/41	43/41	43/42	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41	43/41
1237f	1237f	27/37	29/42	34/42	39/41	39/41	39/41	39/41	39/42	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41	39/41
1242y	1242y	28/37	30/42	35/42	39/42	39/42	39/42	39/42	39/41	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42
1342y	1342y	29/37	30/42	35/42	39/42	39/42	39/42	39/42	39/41	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42	39/42
1458f	1458f	30/37	30/40	35/40	39/39	39/39	39/39	39/39	39/40	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39	39/39
31/37	31/37	33/42	38/42	43/41	48/40	48/40	48/40	48/40	48/41	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40
TR	TR	33/42	38/42	43/41	48/40	48/40	48/40	48/40	48/41	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40

A3.42. QA for John 21 with Byzantine MSS  
(Percentile Agreement)

	041s	489z	1313y	726y	1113x	1319x	045s	10y	f1s	f13s	157x	60x	1424x	1247y	2382y	1514z	1194f	1202f	1220x	1222x	1237f	1242y	1342y	1458f	TR	
041s	100.0																									
489z	91.9	100.0																								
1313y	94.6	88.1	100.0																							
726y	67.6	63.4	75.6	100.0																						
1113x	70.3	64.3	76.2	80.5	100.0																					
1319x	78.4	71.4	83.3	87.8	88.1	100.0																				
045s	86.5	81.0	92.9	78.0	73.8	85.7	100.0																			
10y	75.7	71.4	83.3	78.0	73.8	85.7	90.5	100.0																		
f1s	86.1	80.5	85.4	65.0	65.9	73.2	82.9	73.2	100.0																	
f13s	81.1	73.8	83.3	73.2	69.0	78.6	90.5	83.3	78.0	100.0																
157x	70.3	66.7	73.8	63.4	59.5	66.7	76.2	73.8	70.7	81.0	69.0	100.0														
60x	75.7	69.0	81.0	85.4	78.6	88.1	88.1	83.3	70.7	81.0	69.0	100.0	100.0													
1424x	62.2	61.9	66.7	63.4	71.4	66.7	73.8	66.7	61.0	78.6	59.5	71.4	100.0	100.0												
1247y	72.2	65.8	78.9	65.8	68.4	73.7	86.8	81.6	67.6	89.5	76.3	76.3	78.9	100.0	100.0											
2382y	81.1	76.2	88.1	75.6	78.6	83.3	95.2	88.1	78.0	90.5	71.4	85.7	78.6	92.1	100.0	100.0										
1514z	86.5	81.0	92.9	78.0	78.6	85.7	100.0	90.5	82.9	90.5	76.2	88.1	73.8	86.8	95.2	100.0	100.0									
1194f	78.4	73.8	85.7	80.5	73.8	83.3	92.9	88.1	75.6	88.1	73.8	88.1	71.4	84.2	92.9	92.9	100.0	100.0								
1202f	75.7	71.4	83.3	80.5	76.2	83.3	90.5	83.3	73.2	81.0	81.0	83.3	69.0	81.6	85.7	90.5	88.1	85.7	100.0	100.0						
1220x	75.7	71.4	83.3	73.2	73.8	76.2	90.5	81.0	75.6	81.0	71.4	83.3	64.3	76.3	85.7	90.5	88.1	85.7	100.0	100.0						
1222x	83.8	78.6	90.5	75.6	71.4	83.3	92.9	88.1	80.5	85.7	69.0	85.7	69.0	81.6	90.5	88.1	83.3	83.3	100.0	100.0						
1237f	73.0	69.0	81.0	80.5	73.8	83.3	88.1	83.3	70.7	83.3	78.6	83.3	73.8	81.6	90.5	88.1	85.7	85.7	83.3	100.0	100.0					
1242y	75.7	71.4	83.3	73.2	71.4	76.2	90.5	76.2	78.0	81.0	76.2	83.3	73.8	81.6	90.5	88.1	85.7	78.6	78.6	83.3	100.0					
1342y	78.4	71.4	81.0	83.3	71.4	76.2	83.3	76.2	75.6	88.1	73.8	83.3	81.0	84.2	88.1	83.3	85.7	78.6	78.6	83.3	100.0					
1458f	81.1	75.0	87.5	76.9	75.0	82.5	95.0	85.0	85.0	85.0	75.0	90.0	70.0	80.6	90.0	95.0	92.5	90.0	90.0	90.0	90.5	90.5	90.5	90.5	90.5	
TR	83.8	78.6	90.5	80.5	76.2	83.3	97.6	88.1	80.5	88.1	78.6	90.5	71.4	84.2	92.9	97.6	95.2	92.9	92.9	92.9	90.5	90.5	90.5	90.5	90.5	100.0

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