VLBA ACQUISITION MEMO #377

National Radio Astronomy Observatory

New Mexico December 14, 1993

To: VLBA Data Acquisition Group

From: C. Janes

Subject: Thin Tape Transfer Status

I. Introduction

NRAO purchased 475 thin tapes starting fall 1992. Here is the experience so far in receiving the tapes and putting them into service.

II. Procedure

The thin tapes were shipped from the vendors on metal reels, so that the new tape had to be transferred to Acrometal glass self-packing reels. The transfer procedure defined by Haystack called for some minor testing of the tape in the transfer process.

First, the new self-packing reel was cleaned and inspected for burrs and other defects. The new tape was visually examined for defect, and a sample clipped from the end. The tape drive tape path was cleaned.

The tape was first transferred to a glass self-packing reel at high tension in order to test the tape. The tape path was cleaned again at this point, the tape inspected for damage, and a second tape sample clipped from what was now the opposite end. Both tape samples were stored together in a glassine envelope for use later in sorting out what problems may have been present on receipt and which ones resulted from use. The tape was then rewound to a self-packing reel at 330 ips and 10" of water vacuum. The procedure required about 75 minutes per tape, so that 5 tapes could be transferred per drive per 8 hour shift.

There were two vendors, Sony and 3M. A sample of tapes from both vendors, 18 from 3M and 12 from Sony, were transferred to Acrometal reels at Haystack in an attempt to identify problem areas before the bulk of the tapes were transferred. Haystack kept a few of the sample tapes for "lifetime" testing and other tests.

The transfer procedure will be modified for future transfers to rewind at 160 ips and 7.5" of water vacuum to address the flange forcing / exposed edge problem discussed later. This change extends the transfer time per tape to 95 min, so that only 4 tapes can be transferred per drive per 8 hour shift.

Details of the hub and tape acceptance procedure are given in Appendix A.

III. Problems encountered

1. Acrometal reels

Early in the transfer process, tapes were bumping up and edges folding, a problem traced to insufficient reel hub width. Initially, the hub width was specified to be 0.999" - 0 + 0.001". leaving little or no clearance for the 1" tape which is specified to be up to 0.999" wide. Measurements showed hub widths on some of the Acrometal reels to be a shade under 0.999", but even with a hub width of 0.999", there was an occasional problem with edges folding over during the initial transfer. In consultation with Hans Hinteregger at Haystack, the width specification was increased to 1.001" -0, +0.001", and 74 reels were returned to Acrometal for hub replacement. Not all the reels received with the narrow hubs were returned to the vendor; once tape has been successfully transferred to a reel, the epoxy between the hub and flange is expected to provide sufficient elasticity to accommodate the actual tape width. The wider hub width specification begins with Acrometal reel serial number 490. Returned reels were assigned new serial numbers so that all reels remaining with serial numbers less than 490 have the narrow hub.

Widths on a sample of 3M and Sony tapes were measured accurately while the hub-width problem was being studied to see if a difference existed between manufacturer. The results in Appendix B show no apparent difference.

Some of the hubs received in the early shipments showed tool marks; although no problem was directly traced to a burr on a hub, these reels were returned for hub replacement, and are part of the 74 reels mentioned earlier.

A burr on the inside edge of the flange will cause a spiral pattern to appear on the tape pack. Burrs occurred rarely and were removed with a sharp blade when encountered.

The self-packing reel specification, VLBA Data Acquisition Memo 345, calls for the minimum opening width at the "mouth" of the reel to be between 0.986" and 0.996", narrower than the hub and even the tape. The two glass flanges used to make up a selfpacking reel are concave to provide the narrowing. Measurements on a granite table show a difference in curvature between flanges on most reels; one flange on a reel may be nearly flat while the curvature of the other provides all of the narrowing. Apparently, the reel manufacturer matches flanges so that the opening meets specification; there is no specification on actual flange curvature. No problem has been traced so far to reels with one "flat" flange. The flatter flange was found to be the outside flange in 29 samples measured. For contrast, non-self-packing reels have flat flanges with flange separation and hub width of about 1.020".

The reel specification also limits the difference between the minimum and maxium reel width opening to be no greater than 0.006". Also called runout, this is a measure of how badly one or the other of the flanges is warped. If the runout is too great, a mechanical modulation of pressure on the edges of the tape while

the tape is in motion reportedly can cause packing problems. Hans Hinteregger conducted tests on several reels having the maximum runout of 0.006" and found no problem.

The glass flange edges are normally ground down smooth during the manufacturing process, but one reel was received with unusually rough edges. Intuitively, the roughness could contribute to tape edge wear, but tests at Haystack with this reel did not show a problem.

2. Tape pack shift

The purpose of the self-packing-reel is to prevent tape scatter which could result in edge damage during shipping and handling. That purpose seemed to be compromised in some instances during the transfer process, either by "excessive scatter" throughout the pack, by the exposure of an edge or two in the pack, or by a shift of the pack, especially at the low tape sense.

Scatter is the shifting of tape axially from one layer to the other or, in other words, unevenness in the side of the tape pack. When this happens, the exposed edge is easily crushed when the reel band is installed. The crushed edge has on occasion caused the tape to bump up when the tape is next used. In this case, the tape with the damaged edge must be cut out, and the remaining tape spliced. The problem is easily detected by examining the tape pack under a strong light. The exposed edges reflect the light and appear as a silvery streak in the tape pack.

A related problem occurs on some packs between the Low Tape Sense and the end of the tape. When the tape drops from the 330 ips normal rewind speed to the 90 ips unload speed at the Low Tape Sense, the pack on occasion shifts to one side. Since the length of tape shifted is only about 100', about 30 turns of tape have edges shifted from the main body of the tape pack, and these turns are easily crushed by the tape band. Although there is no documented case yet where this damage has resulted in a bumpy pack, the damaged edges pack against the hub when the tape is on the take-up reel, so that one can reasonably assume that the pack could eventually become disturbed.

It appears that the pack shift problem is a subset of a more frequent problem in which some tape packs force one or the other of the flanges to one side, leaving a gap between the opposite flange and the tape pack. Since the reel bands are weaker than what was specified, they fail to close the gap where it exceeds 9 mils. As long as no edges shift into the gap, the gap in itself is not a hazard to the tape pack; but the gap appears to be an invitation for the more severe pack shift problem.

The "exposed edge" and "flange-forcing" problems seem to occur repeatedly on some packs and not at all on others, leading to the belief that the problem is tape related rather than procedure or drive related. Flange forcing occurs on about 15% of the 3M tapes, and of these about 1/3 demonstrate the pack shift problem where an edge shifts into the gap. The problems were seen seldom if at all on the Sony tapes. This writer sent a list of serial numbers of problem tapes to 3M to see if flange-forcing could be traced to web location, but 3M reported finding no pattern.

Haystack Observatory has agreed to study the flange-forcing / exposed edge problem further; in the interim, NRAO is planning to "post-pass" thin tapes by rewinding them at 160 ips before shipment. NRAO already is operating thin tapes at the lower tension of 7.5" of water vacuum.

During the next tape procurement cycle, fewer problems and improved record keeping should help put better numbers on the problem. Since the origin of the flange-forcing problem is not clearly understood, the concern is that the problem could be much more prevalent in a future shipment of tape.

3. Reel bands

The reel bands specially procured for the thin tape are defective, and will eventually need to be replaced. The clamping strength of the band edges is insufficient to pull the reel flanges together tightly against the tape pack. Also, washers were omitted on the clamp rivets, so that the rivets pull through and the clamp breaks off when fastening the band to the reel. Though annoying, the problems are not sufficiently severe to warrant replacement so that the current thinking is to use the defective bands until they have all broken. Acrometal has agreed to manufacture a replacement when the existing supply from a different vendor runs out.

4. Adhesion

Faulty procedure early in the transfer process allowed alcohol to drip on the tape. The alcohol causes the tape layers to adhere when pressed tightly together so that when the tape is next used, it breaks in two. When the problem was discovered, all the tapes done to date were inspected and several spliced. One tape bumped up from damage thought to stem from an adhesion problem, and defied efforts to recover it.

5. Corning "NASA" self-packing reels

An effort was made to use a number of Corning self-packing reels left over from a previous project, but measurements of the reel openings showed that the reels were not within specification. These reels had been stored for a number of years with a reel band that forced the flanges apart, perhaps causing the epoxy bond between hub and flange to deform so that the flanges would not relax to their original state. In an attempt to recover, the reels were stored for several months at an elevated temperature with the flanges clamped closer together than required by the specification, but measurements afterward showed the runout to be out of specification indicating the flanges had warped. Apparently, the epoxy bond did not restore uniformly. The reels were returned to Haystack.

6. Clouding of glass flanges

Dr. Veronica Mungai, a chemist at 3M, reports a problem with the Acrometal self-packing glass reels in which a white cloud of salts appears on the exposed glass surface, the surface which interfaces with the tape. According to Mungai, the formation of the cloud is independent of tape type and occurs slowly over a period of many months.

Veronica is concerned about possible interaction between lubricants in the 3M tape formula and CAT ions in the salts. Other possible problems are opacity of the salt film preventing visual inspection of the tape pack, and migration of the salts into the tape path.

The film has not appeared on any of the reels procured so far by NRAO. Since the cloud wipes off, it is presumed that any deposit on the flange would be wiped away by the tape when the reel is used.

7. Record keeping

What started off as a hand-written log for the tape transfer showing tape serial number, reel serial number, and VSN evolved into a montage of text entries in a computer file, and finally no log at all. Recently, the various bits of information were transferred to a database shown in Appendix D. This record shows 5 pairs of tapes with the same reel number, 14 pairs of tapes with the same tape serial number, 41 tapes with no tape serial number, 26 with no reel serial number, and 52 with no reel data. Of the 4 failed tapes, only 1 is documented. Much of the confusion resulted from having to switch so much tape between reels when both the flange-forcing and hub width problems surfaced at the same time.

Carl Bignell presents a proposal for keeping track of future shipments of new tape in Appendix C; this writer recommends a hand-written log from which computer entries can be made later.

V. Results

415 tapes transferred successfully and available for observing 5 tapes withdrawn by Haystack for life-time testing 51 tapes not yet transferred waiting for self-packing reels 4 tapes failed during transfer process 475 total

VI. Summary

Three significant problems were encountered while transferring the new thin tape to self-packing reels: narrow hub width, flange-forcing, and record keeping. The hub specification was widened to correct the first problem. The tape speed and tension during rewind before shipment have been reduced as a temporary solution to the flange-forcing problem until that problem is better understood. With start-up problems out of the way, record keeping on the next shipment should be easier, and better procedures are recommended in this report.

The tape transfer procedure other than record keeping appears to be adequate to uncover tape problems: the only tape failures encountered in the field to date have been breaks, and they all traced to non-tape problems.

Appendix A.

Hub and tape acceptance and tape transfer procedure

I. A hub acceptance procedure

a. Measure the flange separation at the hub to determine the minimum and maximum separations. The hub width should be 1.001" to 1.002".

b. Measure the flange separation at the perimeter, again to determine the minimum and maximum separations. These measurements should compare closely with those marked on the reel by Acrometal.

c. Inspect the surface of the hub that interfaces with the tape to reject any that have burrs or other tool marks that might damage the tape.

d. Feel of the flange edges all the way around to find and remove any bumps that might cause damage to the tape.

e. Mount the reel on a drive and clean the inside of the reel with an alcohol-wetted swab while turning the reel. Clean out any debris on the hub and in the corner between the hub and the flange.

Do not allow alcohol to contact any tape.

f. Wipe the outside flanges free of dust, and air dust any remaining dust particles from the inside of the flange.

Measurement tolerances are specified in VLBA Data Acquisition Memo 345.

II. The tape transfer / acceptance procedure

a. Visually inspect the new tape for damage to the shipping reel or tape pack. Damage at this point should be reported to the shipper and/or vendor.

b. Clean the tape path on the drive to be used for the transfer.

c. Wash hands thoroughly before handling tape. Do not eat, drink, or smoke when handling tape.

d. Place the new tape securely on the supply reel hub and clip off about 6" of tape from the end. Cut the tape diagonally so that the inside edge, the edge in contact with the flange that mounts towards the drive, is the longer edge. Place the tape sample in a glassine envelope and mark the envelope with the tape manufacturer's serial number. Note the tape serial number in the log.

e. Thread the tape to a self-packing reel. Do not allow the end of the tape to fold over on the takeup reel. The hub on the self-packing reel is non-adhesive. To thread the tape, wet the end of the tape slightly with water from a clean sponge and pull the tape across the hub until the end adheres. Use an orange stick if necessary to hold the end in place and wind three or four turns of tape onto the hub. Keep tension on the tape to make sure that the turns are tight, and do not let the tape end fold over.

f. Select a vacuum of 15" and a drive speed of 80 ips. Transfer the tape to the takeup reel. Watch the tape for the first minute to make sure no bumps or other problems develop. If necessary use an orange stick with a feather light touch to feel for bumps in the tape pack. Point the stick in the direction of motion to avoid snagging the tape. Do not touch the tape with your hands. It is necessary to turn LTSENSE off to remove all tape from the supply reel.

g. Inspect the tape pack on the take-up reel for bumps, spokes, exposed edges or other damage. If any problem occurs, refer to recovery procedures.

h. Check to make sure the tape manufacturer's serial number on the metal reel has been recorded correctly on the tape sample and in the log, then remove the metal reel. Keep 3M reels; they can be recycled when more tape is ordered.

i. Cut a sample of tape from the tape end; make the cut diagonally so that the inside edge is the longer edge, and put the sample in the envelope with the other sample.

j. Clean the tape path again.

k. Install a clean and inspected glass self-packing reel as the new supply reel. Note the reel serial number, flange separation, and runout in the log.

1. Again, the hub on the self-packing reel is non-adhesive. To thread the tape, wet the end of the tape slightly with water from a clean sponge and pull the tape across the hub until the end adheres. Use an orange stick if necessary to hold the end in place and wind three or four turns of tape onto the hub. Keep tension on the tape to make sure that the turns are tight, and do not let the tape end fold over.

m. Set the vacuum for 7.5" and the drive speed at 160 ips, and wind the tape onto the new reel. Again, watch the tape for the first minute to make sure no bumps or other problems develop. Use the orange stick if necessary to feel the smoothness of the pack. n. Inspect the tape pack for bumps, spokes, exposed edges, pack shift, or other damage. If any appear, refer to recovery procedures. If not, unload the tape completely onto the supply reel and place a piece of Zebra tape over the tape end. Form a pull tab on the end of the Zebra tape that adheres to the tape end to simplify later removal. With a feeler gauge check the gap between the tape pack and both flanges. Note the two gaps on the log.

o. Place a black reel band on the tape reel, install the proper labelling, and release the tape to the tape pool. Record the VSN in the log along with the manufacturers' serial numbers and other information.

III. Recovery procedures

a. If a problem occurs with a Sony tape during the initial transfer, and the tape is suspect, it may be returned to the manufacturer.

b. Note any damage that is evident in the log, being very specific while the evidence is available.

c. Wind the tape back to the manufacturer's metal reel or a glass non-self-packing reel until there is time available to inspect the problem in more detail. Do not leave a damaged tape on a selfpacking reel overnight or install a black reelband.

d. If a tape is broken, it must be spliced.

e. Some tapes can be recovered by winding the tape back and forth between non-self-packing reels at low tension and low speed. After a number of shuttles proportional to the extent of damage, try transferring the tape again to a self-packing reel at low tension. If that works, try transferring between self-packing reels at high tension to test the tape. A tape that transfers at normal tension, but not high tension is marginal and may not be placed into service for data collection.

f. Make the necessary entries in the log so that the particular tape can be traced from reel to reel, and so that the final VSN used will reflect the correct reel and tape serial numbers.

Appendix B

Tape widths of 6" samples

Supplier	Sn	Width Max "	Width Min "
Sony	115 120 01	0.99840	0.99819
Sony	107 120 U1	0.99889	0.99868

Sony	107 120 S1	0.99875	0.99869
Sony	107 120 Q1	0.99868	0.99857
Sony	109 120 M1	0.99866	0.99834
3M	54300-007-1-016	0.99890	0.99879
3M	54300-007-1-008	0.99882	0.99875
3M	54300-008-1-015	0.99899	0.99885
3M	54300-001-1-019	0.99887	0.99885
3M	54300-008-1-018	0.99877	0.99851

Appendix C

Record Keeping Requirements for Thin Tapes - 19931007 RCB ------

The acquisition of expensive thin tapes has necessitated implementing a reasonably extensive record keeping procedure. The inspection and procedures for handling tapes (from original acquisition through normal tape usage is covered elsewhere). This addresses only what notes to keep and when to keep them. It will be desirable to incorporate some of these notes in the tape database at some point in the near future. The following is only an initial attempt at identifying what information to collect and when. Please give me you feed back as soon as is practical.

Original Acquisition

When the thin tapes are originally received from the manufacturer there is an extensive procedure to follow of inspecting, testing and transferring the magnetic tape from the metal reels onto self-packing reels.

(a) When the original tape is unpacked it is inspected. The information to be recorded at this stage is the following: manufacturer manufacturer's serial number (TSN) manufacturer's product number Tape type and thickness (other parameters?) date of inspection and unpacking employee name (initials) notes on the condition of the tape (see C Janes memos) and and any initial testing

(b) Unpacking and inspection of self-packing reels. Notes should be kept on manufacturer manufacturer product number manufacturer serial number (RSN) measured gap and runnout [does this belong under (c) ?] date of inspection and unpacking employee name (initials) notes on the condition of the reel (c) The assignment of tape to self-packing reel. The following needs to be recorded: assigned NRAO volume serial number (VSN) manufacturer's serial number of tape (TSN) manufacturer serial number of reel (RSN) employee name (initials) date of assignment notes on any testing of the tape on the self-packing reel initial library shelf location

Inspection of Tapes/Reels

All tapes should be inspected prior to shipment out of the AOC and upon receipt of shipments into the AOC for damage and general condition of tape and reel. In addition if some damage happens while being handled, while being used on the correlator or a recorder the information should be recorded. When ANY unusual condition is discovered the following information should be recorded: tape volume serial number (VSN)

date of inspection inspector's name (initials) circumstances (while recording, getting ready for ship., receipt, ...) notes on condition of tape and reel notes on any action taken (clean reel, ...) or to be taken (replace reel, splice tape, trim leader, ...etc) notes on changes in length of tape, ...

Change of Reel/Tape Configuration

Whenever a tape or reel is retired (put out of service) or if the association of tape/reel is changed the following information should be recorded: tape volume serial number (VSN) manufacturer serial number of reel (RSN) manufacturer of reel (if necessary) date of action

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inspector's name (initials)
actions taken (eg retire tape, ...) indicating final
dispositions
any new associations of VSN/RSN/TSN
notes on reasons for actions taken and any relevant
information
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Assignment of NRAO Volume Serial Numbers (VSN)

Since it is not possible to keep track of the original manufacturer's serial number after transfer to the self-packing reels (without extensive and 100 percent accurate records), I propose that when a tape is physically retired from service for whatever reason that we do not reassign the VSN. Although this is not necessary it will make future book keeping as regards performance analysis of the tapes and reels easier.

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30 100 0.788 0.008 37 (201)-02-4 91 120 0.789 0.003 37 (201)-02-4 91 130 0.789 0.003 37 (201)-02-4 101 113 0.799 0.003 37 (201)-04-2 Haystack life test 101 114 0.786 0.003 37 (201)-04-2 Haystack life test 101 114 0.786 0.003 37 (201)-04-2 Haystack life test 101 117 0.797 0.003 37 (201)-04-2 Haystack lesting 102 117 0.797 0.003 37 (201)-04-1-13 Haystack lesting 103 135 0.797 0.003 35 (201)-4-1-13 Haystack lesting 113 136 0.798 0.004 35 (201)-4-1-2 Haystack lesting 113 136 0.797 0.003 35 (201)-4-1-3 Haystack lesting 113 136 0.797 0.003 35 (201)-4-1-3 Haystack lesting 113 136 0.797 0.003 35 (201)-4-1-3 Haystack lesting 114	94		106	0.987	0.005	31	72051-04-9	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	96		103	0.988	0.003	311	72051-04-11	
98 120 0.9789 0.003 347 (2031-03-7) 99 113 0.9789 0.003 37 (2031-04-7) Harstack life test 101 114 0.9786 0.003 37 (2031-04-7) Harstack life test 103 114 0.9786 0.003 37 (2031-04-7) Harstack life test 103 117 0.9797 0.003 37 (2031-04-7) Harstack life test 104 118 0.768 0.003 37 (2031-04-7) Harstack life test 105 10.979 0.004 37 M301-04-123 Harstack life test Harstack life test 105 0.979 0.004 37 M301-04-123 Harstack life test Harstack life test 113 146 0.769 0.004 37 M301-04-123 Harstack life test Harstack life test 113 143 0.797 0.003 37 M301-04-123 Pack shift; sepsed edge Harstack life test 113 143 0.797 0.003 37 M301-04-123 Pack shift; sepsed edge Harstack life test 114 126 0.797 0.003 37 M301-04-123 Pack shift; sepsed edge Harstack life test	97		112	0.989	0.004	311	72051-03-24	
<pre> 19 0.986 0.003 30 /2031-03-2 10 113 0.989 0.004 37 /2031-03-2 14 ystack life test 113 0.989 0.005 37 /2031-04-2 104 116 0.986 0.005 37 /2031-04-2 105 117 0.987 0.003 37 /2031-04-2 105 117 0.987 0.003 37 /2031-04-2 107 113 0.989 0.006 37 /3031-04-1-3 107 113 0.989 0.006 37 /3031-04-1-3 108 0.989 0.006 37 /3031-04-1-3 113 120 0.987 0.004 37 /3031-04-1-3 113 120 0.987 0.004 37 /3031-04-1-3 113 120 0.987 0.006 37 /3031-04-1-3 113 120 0.987 0.006 37 /3031-04-1-3 113 120 0.987 0.006 37 /3031-04-1-3 113 120 0.987 0.006 37 /3031-04-1-3 113 120 0.987 0.006 37 /3031-04-1-3 113 120 0.987 0.006 37 /3031-04-1-3 113 120 0.987 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.988 0.006 37 /3031-04-1-3 113 122 0.989 0.003 37 /3031-04-1-3 113 122 0.989 0.003 37 /3031-04-1-3 113 123 0.979 0.003 37 /3031-04-1-3 113 123 0.979 0.004 37 /3031-04-1-3 113 123 0.979 0.004 37 /3031-04-1-3 113 123 0.979 0.004 37 /3031-04-1-3 113 123 0.979 0.004 37 /3031-04-1-3 113 123 0.979 0.004 37 /3031-04-1-3 113 123 0.979 0.005 37 /3031-04-1-3 113 123 0.979 0.005 37 /3031-04-1-3 113 123 0.979 0.005 37 /3031-04-1-3 113 123 0.979 0.005 37 /3031-04-1-3 113 123 0.979 0.005 37 /3031-04-1-3 113 123 0.979 0.005 37 /3031-04-1-3 113 123 0.979 0.005 37 /3031-04-1-3 114 124 0.979 0.005 37 /3031-04-1-3 115 0.989 0.005 37 /3031-04-1-3 115 0.989 0.005 37 /3031-04-1-3 115 0.989 0.005 37 /3031-04-1-3 115 0.989 0.005 37 /3031-04-1-3 115 0.989 0.005 37 /3031-04-1-3 115 0.989 0.005 37 /3031-04-1-3 115 0.989 0.005 37</pre>	98		120	0.989	0.003	3H	72051-03-9	
113 0.989 0.000 IN 72001-02-23 124 0.986 0.005 IN 72001-04-23 125 114 0.986 0.005 IN 72001-04-23 126 118 0.986 0.005 IN 72001-04-23 126 118 0.986 0.005 IN 72001-04-23 127 0.987 0.006 IN 53001-01-15 128 0.987 0.006 IN 53001-01-15 129 0.987 0.006 IN 53001-01-15 120 113 0.987 0.006 IN 53001-01-12 121 141 0.988 0.066 IN 53001-01-12 122 0.987 0.006 IN 53001-01-12 123 12 0.987 0.006 IN 53001-01-12 124 125 0.987 0.006 IN 53001-01-12 125 0.987 0.006 IN 53001-01-12 126 0.987 0.006 IN 53001-01-12 127 0.987 0.006 IN 53001-01-12 128 129 0.987 0.006 IN 53001-01-12 129 0.987 0.006 IN 53001-01-12 120 0.987 0.006 IN 53001-01-12 121 122 0.987 0.006 IN 53001-01-12 123 120 0.987 0.006 IN 53001-01-12 124 0.987 0.006 IN 53001-01-12 125 0.987 0.006 IN 53001-01-12 126 0.987 0.006 IN 53001-01-12 127 0.987 0.006 IN 53001-01-12 128 0.987 0.006 IN 53001-01-12 129 0.987 0.006 IN 53001-01-12 120 0.979 0.006 IN 53001-01-12 121 120 0.979 0.006 IN 53001-01-12 123 0.979 0.006 IN 53001-01-12 124 0.987 0.006 IN 53001-01-12 125 0.987 0.006 IN 53001-01-12 126 0.987 0.006 IN 53001-01-12 127 0.987 0.006 IN 53001-01-12 128 0.987 0.006 IN 53001-01-12 129 0.979 0.006 IN 53001-01-12 129 0.979 0.006 IN 53001-01-12 129 0.979 0.006 IN 53001-01-12 129 0.979 0.006 IN 53001-01-13 129 0.987 0.006 IN 5301-01-13 120 0.997 0.006 IN 5301-01-13 120 0.997 0.006 IN 5301-01-13 121 0.997 0.006 IN 5301-01-13 122 0.988 0.006 IN 5301-01-13 123 0.988 0.006 IN 5301-01-13 124 0.997 0.006 IN 5301-01-13 125 0.988 0.006 IN 5301-01-13 126 0.989 0.006 IN 5301-01-13 127 0.989 0.006 IN 5301-01-13 128 0.989 0.006 IN 5301-01-13 129 0.987 0.006 IN 5301-01-13 130 0.997 0.006 IN 5301-01-13 131 0.979 0.068 IN 5301-01-13 132 0.989 0.006 IN 5301-01-13 134 0.979 0.006 IN 5301-01-13 135 0.989 0.006 IN 5301-01-13 136 0.997 0.006 IN 5301-01-13 137 0.989 0.006 IN 5301-01-13 138 0.997 0.006 IN 5301-01-13 139 0.979	99		119	0.986	0.003	38	72051-03-5	Haystack life test
100 137 72051-04-12 Haystack testing 101 116 0.966 0.005 37 72051-04-2 103 116 0.976 0.003 37 72051-04-2 104 116 0.977 0.004 37 5301-04-2 105 0.977 0.004 37 5301-04-1-13 Haystack testing 107 155 0.977 0.004 37 5301-04-1-23 118 0.979 0.004 37 5301-04-1-23 pack shift; exposed edge 111 156 0.977 0.004 37 5301-04-1-23 112 0.977 0.004 37 5301-04-1-3 pack shift; exposed edge 113 156 0.977 0.004 37 5301-04-1-3 114 127 0.977 0.003 37 5301-04-1-3 115 128 0.977 0.003 37 5301-04-1-3 113 130 0.977 0.003 37 5301-04-1 127 0.978 0.002 37 5301-04-1 128 120 0.977 0.003 37 5301-04-1 129 0.979 0.003 37 5301-04-1 eccess gap; transferred from reel 206; VLBA04987 133	100		113	0.989	0.004	311	72051-03-23	
113 114 0.093 72031-04-23 104 118 0.093 72031-04-2 105 117 0.093 72031-04-2 106 117 0.997 0.004 75301-04-7 107 197 0.004 75301-04-7 Haystack testing 108 115 0.999 0.004 75301-04-7 Haystack testing 108 115 0.999 0.004 75301-04-1-13 Haystack testing 113 114 0.999 0.004 75301-04-1-24 Pack shift; exposed edge 113 114 0.997 0.004 75301-04-1-24 Pack shift; exposed edge 113 126 0.997 0.003 75301-04-1-24 Pack shift; exposed edge 114 126 0.997 0.003 75301-04-1-24 Pack shift; exposed edge 123 124 0.997 0.003 75301-04-1-24 Pack shift; exposed edge 124 125 0.997 0.003 75301-04-1-24 Pace problee Pace ster first use 125 126 0.997 0.004 75401-0-1-24<	102					3M	72051-04-1	Haystack testing
100 110 0.792 0.003 37 2001-00-6 Haystack testing 107 0.792 0.004 35301-01-01-12 Haystack testing 107 154 0.992 0.004 35301-01-125 Haystack testing 108 154 0.992 0.004 35301-01-125 Jack shift; exposed edge 111 154 0.992 0.004 35301-01-125 Jack shift; exposed edge 112 0.992 0.004 35301-01-125 Jack shift; exposed edge 113 152 0.992 0.004 35301-01-125 114 126 0.997 0.003 35301-01-125 115 126 0.997 0.003 35301-01-125 118 126 0.997 0.003 35301-01-121 123 127 0.996 0.003 35301-01-121 124 0.997 0.003 35301-01-121 etcess gap; transferred from reel 208; VLBA04987 125 124 0.997 0.003 354301-01-121 gap problee 127 210 0.997 0.003 354301-01-121 <td>103</td> <td></td> <td>114</td> <td>0.986</td> <td>0.005</td> <td>31</td> <td>72051-04-25</td> <td></td>	103		114	0.986	0.005	31	72051-04-25	
125 127 0.79 0.004 37 2300-10-1-25 136 135 0.799 0.004 35 4301-10-1-25 137 0.797 0.004 35 4301-4-1-13 138 0.004 37 8301-4-1-13 131 132 0.797 0.004 37 8301-4-1-24 131 132 0.797 0.004 37 8301-4-1-23 131 132 0.797 0.004 37 8301-4-1-23 131 132 0.797 0.004 37 8301-4-1-23 131 132 0.797 0.003 37 8301-4-1-23 132 0.797 0.003 37 8301-4-1-24 131 130 0.797 0.003 37 8301-4-1-18 132 0.797 0.003 35 3301-4-1-18 edge problem after first use 132 0.797 0.003 35 3301-4-1-24 edge problem after first use 133 0.797 0.003 35 3301-4-1-24 escess gap; transferred from reel 208; VLB004987 133 0.304 95 301-4-1-13 escess gap; transferred from reel 208; VLB004987 133 0.797	104		118	0.986	0.005	38	72051-04-8	
167 157 0.972 0.004 3F 54301-10-1-25 168 158 0.972 0.004 3F 54301-01-25 169 158 0.972 0.004 3F 54301-01-125 169 158 0.979 0.004 3F 54301-4-1-3 161 153 0.979 0.004 3F 54301-4-1-3 161 152 0.979 0.005 3F 54301-4-1-3 161 152 0.979 0.005 3F 54301-4-1-3 162 0.979 0.005 3F 54301-4-1-3 163 129 0.979 0.005 3F 54301-4-1-3 164 127 0.972 0.005 3F 54301-4-1-3 175 128 0.979 0.005 3F 54301-4-1-3 176 0.972 0.005 3F 54301-4-1-3 177 129 0.972 0.004 3F 54301-4-1-3 178 128 0.979 0.005 3F 54301-4-1-3 179 0.972 0.004 3F 54301-4-1-3 170 0.972 0.004 3F 54301-4-1-3 171 130 0.972 0.004 3F 54301-4-1-3 172 127 200 0.979 0.005 3F 54301-4-1-3 172 128 0.979 0.005 3F 54301-4-1-3 172 129 0.979 0.005 3F 54301-4-1-3 172 120 0.979 0.005 3F 54301-4-1-3 172 120 0.979 0.005 3F 54301-4-1-3 172 120 0.979 0.005 3F 54301-4-1-3 173 0.979 0.005 3F 54301-4-1-3 173 0.979 0.005 3F 54301-4-1-3 174 0.979 0.005 3F 54301-4-1-3 175 128 0.979 0.005 3F 54301-4-1-3 175 129 0.979 0.005 3F 54301-4-1-10 175 0.979 0.005 3F 54301-4-1-10 175 0.979 0.005 3F 54301-4-1-10 175 0.979 0.005 3F 54301-4-1-10 175 137 0.979 0.005 3F 54301-4-1-10 175 137 0.979 0.005 3F 54301-5-1-10 176 127 0.979 0.005 3F 54301-5-1-10 177 218 0.979 0.005 3F 54301-5-1-10 178 0.979 0.005 3F 54301-5-1-10 179 0.908 0.005 3F 54301-5-1-10 179 0.908 0.005 3F 54301-5-1-10 179 0.908 0.005 3F 54301-5-1-10 170 129 0.999 0.005 3F 54301-5-1-10 171 129 0.999 0.005 3F 54301-5-1-10 175 129 0.999 0.005 3F 54301-5-1-12 175 139 0.999 0.005 3F 54301-5-1-2 175 199 0.990 0.005 3F 5430	105		**/	0.707	•••••	3M	72051-04-7	Haystack testing
108 153 0.003 34 94.01-10-1-22 109 153 0.003 34301-4-1-13 94.00 111 153 0.097 0.004 34301-4-1-24 94.1 113 154 0.097 0.003 34301-4-1-24 94.1 113 150 0.097 0.003 34301-4-1-23 94.1 114 150 0.997 0.003 34301-4-1-23 94.1 115 160 0.997 0.003 34301-4-1-24 94.1 116 127 0.997 0.003 34301-4-1-24 94.1 117 128 0.997 0.003 34301-4-1-24 94.1 121 127 0.997 0.003 34301-4-1-24 94.1 123 0.997 0.003 34301-4-1-24 94.1 94.1 124 123 0.997 0.003 34301-4-1-12 94.1 124 0.997 0.003 34301-4-1-12 94.1 94.1 123 0.997 0.003 34301-4-1-12 94.1 94.1 94.1 <	107		157	0.992	0.004	3H	54301-10-1-16	
100 136 0.72 0.7000 31 531 -1-17 111 136 0.789 0.000 34301-41-22 pack shift; exposed edge 112 131 0.789 0.000 34301-41-23 pack shift; exposed edge 113 136 0.789 0.000 34301-41-12 pack shift; exposed edge 114 138 0.799 0.000 34301-41-12 pack shift; exposed edge 116 127 0.799 0.000 34301-41-12 pack shift; exposed edge 118 126 0.799 0.000 34301-41-12 pack shift; exposed edge 119 128 0.791 0.000 34301-41-12 pack shift; exposed edge 123 124 0.792 0.000 34301-41-12 pack shift; exposed edge 124 129 0.791 0.000 34301-41-12 pack shift; exposed edge 124 0.799 0.000 34301-41-12 pack shift; exposed edge pack shift; exposed edge 125 0.897 0.000 34301-41-12 pack shift; exposed edge pack shift; exposed edge	108		155	0.989	0.006	38	54301-10-1-20	
<pre>111 15 6 0.968 0.000 3T 54301-4-1-22 112 16 0.969 0.000 3T 54301-4-1-23 113 152 0.969 0.000 3T 54301-4-1-23 114 158 0.969 0.000 3T 54301-4-1-23 115 160 0.967 0.000 3T 54301-4-1-23 116 127 0.979 0.000 3T 54301-4-1-23 117 128 0.969 0.000 3T 54301-4-1-2 117 128 0.969 0.000 3T 54301-4-1-2 117 128 0.969 0.000 3T 54301-4-1-3 118 120 0.979 0.000 3T 54301-4-1-3 119 128 0.979 0.000 3T 54301-4-1-3 119 128 0.979 0.000 3T 54301-4-1-3 121 127 0.979 0.000 3T 54301-4-1-3 122 131 0.979 0.000 3T 54301-4-1-3 123 122 0.9780 0.000 3T 54301-4-1-3 124 0.979 0.000 3T 54301-4-1-3 125 124 0.979 0.000 3T 54301-4-1-3 126 127 0.979 0.000 3T 54301-4-1-4 127 127 0.979 0.000 3T 54301-4-1-3 128 200 0.969 0.000 3T 54301-4-1-4 129 120 0.979 0.000 3T 54301-4-1-7 127 220 0.969 0.000 3T 54301-4-1-1 129 220 0.969 0.000 3T 54301-4-1-1 120 203 0.971 0.000 3T 54301-4-1-1 120 203 0.971 0.000 3T 54301-4-1-1 121 22 304 0.971 0.000 3T 54301-4-1-1 122 304 0.979 0.000 3T 54301-4-1-1 132 2304 0.979 0.000 3T 54301-4-1-1 132 2304 0.979 0.000 3T 54301-4-1-1 133 221 0.969 0.000 3T 54301-4-1-1 134 225 0.969 0.000 3T 54301-4-1-1 135 212 0.969 0.000 3T 54301-4-1-1 136 213 0.969 0.000 3T 54301-4-1-1 137 122 304 0.979 0.000 3T 54301-4-1-1 138 213 0.968 0.000 5T 54301-4-1-1 139 212 0.979 0.000 3T 54301-4-1-1 140 476</pre>	109		155	0.972	0.004	24	54301-6-1-19	
112 141 0.969 0.003 JR 54301-4-1-21 113 152 0.979 0.003 JR 54301-4-1-21 114 158 0.989 0.003 JR 54301-4-1-21 115 127 0.997 0.003 JR 54301-4-1-21 116 127 0.997 0.003 JR 54301-4-1-21 117 128 0.997 0.003 JR 54301-4-1-21 118 127 0.997 0.003 JR 54301-4-1-7 123 129 0.998 0.002 JR 54301-4-1-7 123 127 0.997 0.002 JR 54301-4-1-7 124 0.997 0.002 JR 54301-4-1-7 dde problem after first use 125 124 0.997 0.003 JR 54301-4-1-7 dde problem after first use 126 0.997 0.003 JR 54301-4-1-7 gde problem after first use 127 210 0.997 0.003 JR 54301-4-1-10 gap problem 133 204 0.997 0.003 JR 54301-4-1-20 excess gap; transferred from reel 208; VLBA04987 133 204 0.997 0.003 JR 54301-4-1-3 gap problem 134 120 0.998 0.0003 JR 54301-4-1-10	111		154	0.788	0.006	31	54301-8-1-22	
113 15 0.991 0.003 38 9301-4-1-21 114 15 0.997 0.003 38 9301-4-1-23 115 160 0.997 0.003 38 9301-4-1-23 116 127 0.997 0.003 38 9301-4-1-2 117 123 0.997 0.003 38 9301-4-1-3 118 123 0.997 0.003 38 9301-4-1-3 123 122 0.998 0.006 38 9301-4-1-3 123 122 0.998 0.006 38 9301-4-1-3 124 123 0.992 0.003 38 9301-4-1-3 125 124 0.997 0.003 38 9301-4-1-3 126 211 0.999 0.003 38 9301-4-1-3 127 129 0.991 0.002 38 9301-4-1-3 128 202 0.999 0.003 38 9301-4-1-3 129 0.991 0.002 38 9301-4-1-3 129 0.991 0.002 38 9301-4-1-3 129 0.991 0.003 38 9301-4-1-3 130 203 0.991 0.003 38 9301-4-1-3 132 204 0.991 0.003 38 9301-4-1-3 132 205 0.997 0.004 38 9301-4-1-3 134 205 0.997 0.004 38 9301-4-1-3 135 213 0.989 0.006 38 9301-4-1-3 137 214 0.989 0.006 38 9301-4-1-3 138 213 0.989 0.006 38 9301-4-1-3 140 496 T3 9301-8-1-3 141 219 0.997 0.003 38 9301-4-1-3 142 219 0.997 0.003 38 9301-4-1-3 144 139 0.988 0.006 38 9301-8-1-3 144 139 0.988 0.006 38 9301-8-1-3 145 217 0.999 0.003 38 9301-4-1-3 146 421 0.988 0.006 38 9301-8-1-20 146 421 0.989 0.005 38 9301-8-1-20 147 139 0.989 0.006 38 9301-8-1-20 148 139 0.989 0.005 38 9301-8-1-20 149 139 0.999 0.005 38 9301-8-1-20 140 999 0.005 38 9301-8-1-10 151 133 0.999 0.005 38 9301-8-1-20 153 199 0.989 0.005 38 9301-8-1-20 154 199 0.999 0.005 38 9301-8-1-20 155 199 0.998 0.005 38 9301-8-1-20 156 199 0.007 38 9301-8-1-11 157 190 0.989 0.005 38 9301-8-1-20 158 199 0.999 0.005 38 9301-8-1-21 159 199 0.999 0.005 38 9301-8-1-20 150 199 0.099 18 9301 9301-8-1-11 150 199 0.999 0.005 38 9301-8-1-21 150 199 0.999 0.005 38 9301-8-1-21 151 133 0.999 0.005 38 9301-8-1-21 152 174 0.989 0.005 38 9301-8-1-21 153 199 0.999 0.005 38 9301-8-1-21 154 199 0.999 0.005 38 9301-8-1-21 155 199 0.999 0.005 38 9301-8-1-21 154 197 0.999 0.005 38 9301-8-1-21 155 199 0.999 0.005 38 9301-8-1-21 156 199 0.999 0.005 38 9301-8-1-21 157 199 0.9	112	2	161	0.989	0.004	3M	54301-4-1-24	pack shift; exposed edge
14 13 14 13 0 0.787 0.000 30 30 301-4-1-5 15 16 0 0.787 0.000 30 30 301-4-1-12 16 12 0 0.987 0.000 30 30301-4-1-25 17 12 0 0.987 0.000 30 30301-4-1-3 18 12 0 0.997 0.000 30 30301-4-1-3 19 12 0 0.997 0.000 30 30301-4-1-3 10 12 0 0.997 0.000 30 30301-4-1-4 12 12 0 0.997 0.000 30 30301-4-1-4 12 12 0 0.997 0.000 30 30301-4-1-7 12 20 0.999 0.000 30 30301-4-1-7 12 20 0.999 0.000 30 30301-4-1-7 12 20 0.999 0.000 30 30301-4-1-26 12 20 0.999 0.000 30 30301-4-1-26 12 20 0.999 0.000 30 30301-4-1-26 12 20 0.999 0.000 30 30301-4-1-26 13 204 0.997 0.000 30 30301-4-1-26 13 209 0.987 0.000 30 30301-4-1-26 13 209 0.987 0.000 30 30301-4-1-26 13 209 0.987 0.000 30 30301-4-1-26 14 219 0.997 0.000 30 30301-4-1-26 15 21 0.989 0.000 30 30301-4-1-26 15 21 0.989 0.000 30 30301-4-1-26 16 30 22 0.998 0.000 30 30301-4-1-26 17 214 0.989 0.000 30 30301-4-1-26 18 213 0.987 0.000 30 30301-4-1-26 19 problem 10 30 21 0.997 0.000 30 30301-5-1-20 13 200 0.989 0.000 30 30301-5-1-20 14 219 0.997 0.000 30 30301-5-1-20 15 212 0.998 0.000 30 30301-5-1-20 16 31 400 0.99 0.000 30 30301-5-1-20 16 31 400 0.99 0.000 30 30301-5-1-20 17 214 0.989 0.000 30 30301-5-1-20 18 213 0.999 0.000 30 30301-5-1-20 19 31 30 0.999 0.000 30 30301-5-1-20 19 0.999 0.000 30 30301-5-1-20 19 0.999 0.000 30 30301-5-1-20 19 0.999 0.000 30 30 30301-5-1-20 10 0.999 0.000 30	113	5	152	0.991	0.003	311	54301-4-1-21	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	114		158	0.987	0.006	31	54301-4-1-5	
117 125 0.989 0.004 38 4301-6-1-75 118 126 0.999 0.003 38 4301-6-1-76 119 128 0.999 0.003 38 4301-6-1-78 120 0.992 0.003 38 4301-6-1-78 121 130 0.972 0.003 38 4301-6-1-78 122 131 0.979 2. 0.004 38 4301-6-1-78 123 122 0.988 0.006 38 4301-6-1-78 124 0.971 0.002 38 4301-6-1-78 125 124 0.971 0.002 38 4301-6-1-78 126 0.972 0.989 0.003 38 4301-6-1-78 127 210 0.999 0.003 38 4301-6-1-78 128 0.999 0.003 38 4301-6-1-78 129 207 0.989 0.003 38 4301-6-1-78 129 207 0.989 0.003 38 4301-6-1-78 133 209 0.988 0.003 38 4301-6-1-78 133 209 0.987 0.004 38 4301-6-1-78 135 206 0.987 0.004 38 4301-6-1-78 137 214 0.987 0.004 38 4301-6-1-78 138 213 0.988 0.005 38 4301-6-1-78 141 217 0.978 0.003 38 4301-6-1-78 143 217 0.988 0.005 38 4301-6-1-78 144 219 0.978 0.003 38 4301-6-1-71 138 0.988 0.003 38 4301-5-1-6 144 139 0.988 0.003 38 4301-5-1-6 145 140 0.999 0.003 38 4301-5-1-78 141 217 0.991 0.003 38 4301-5-1-78 143 217 0.998 0.003 38 4301-5-1-78 144 219 0.978 0.003 38 4301-5-1-78 145 140 0.999 0.003 38 4301-5-1-78 146 421 0.999 0.003 38 4301-5-1-78 147 221 0.991 0.003 38 4301-5-1-78 148 140 0.999 0.003 38 4301-5-1-78 149 0.998 0.003 38 4301-5-1-78 140 0.999 0.003 38 4301-5-1-78 141 217 0.991 0.003 38 4301-5-1-78 142 170 0.998 0.003 38 4301-5-1-78 143 140 0.999 0.003 38 4301-5-1-78 144 127 0.991 0.003 38 4301-5-1-78 145 130 0.988 0.003 38 4301-5-1-78 146 137 0.988 0.003 38 4301-5-1-78 147 221 0.991 0.003 38 4301-5-1-78 148 140 0.999 0.003 38 4301-5-1-78 149 138 0.988 0.003 38 4301-5-1-78 149 139 0.988 0.003 38 4301-5-1-78 149 0.989 0.003 38 4301-5-1-78 140 0.999 0.003 38 4301-5-1-78 141 121 0.999 0.003 38 4301-5-1-78 142 174 0.988 0.003 38 4301-5-1-78 143 141 0.999 0.003 38 4301-5-1-78 144 193 0.999 0.003 38 4301-5-1-78 145 199 0.999 0.003 38 4301-5-1-78 146 193 0.999 0.003 38 4301-5-1-78 147 138 0.998 0.003 38 4301-5-1-78 148 193 0.999 0.003 38 4301-5-1-78 149 0.999 0.003 38 4301-5-1-78 140 199 0.999 0.003 38 4301-5-1-78 141 197 0.998 0.003 38 4301-5-1-78 142 190 0.999 0.003 38 430	116		127	0.992	0.003	38	54301-4-1-12	
118 128 0.971 0.003 JR $34301-0-1-3$ 119 128 0.979 0.003 JR $4331-6-1-3$ 127 0.979 0.003 JR $4331-6-1-3$ 122 131 0.979 0.003 JR $4331-6-1-3$ 123 122 0.978 0.004 JR $4301-6-1-3$ 124 123 0.972 0.004 JR $4301-6-1-3$ 125 124 0.979 0.003 JR $4331-6-1-3$ 126 211 0.969 0.003 JR $4331-6-1-2$ 127 220 0.979 0.003 JR $4331-6-1-2$ 128 202 0.969 0.003 JR $4331-6-1-2$ 129 202 0.969 0.003 JR $4331-6-1-2$ 129 202 0.969 0.003 JR $4331-6-1-2$ 120 0.979 0.003 JR $4331-6-1-2$ 129 202 0.969 0.003 JR $4331-6-1-3$ 130 203 0.971 0.003 JR $43301-6-1-12$ 131 204 0.971 0.003 JR $43301-6-1-12$ 132 204 0.979 0.004 JR $43301-6-1-12$ 133 205 0.967 0.004 JR $43301-6-1-13$ 134 205 0.967 0.004 JR $43301-6-1-13$ 135 213 0.967 0.004 JR $43301-6-1-2$ 137 214 0.979 0.005 JR $43501-6-1-13$ 138 213 0.978 0.005 JR $43501-6-1-10$ 138 213 0.978 0.005 JR $43501-6-1-10$ 139 212 0.979 0.005 JR $43501-6-1-2$ 141 219 0.979 0.005 JR $43501-6-1-2$ 142 216 0.979 0.005 JR $43501-6-1-2$ 143 129 0.978 0.005 JR $43501-6-1-2$ 144 139 0.968 0.006 JR $43501-5-1-6$ 151 132 0.979 0.005 JR $43501-6-1-2$ 153 124 0.979 0.005 JR $43501-6-1-2$ 154 216 0.979 0.005 JR $43501-6-1-2$ 155 135 0.979 0.005 JR $43501-6-1-2$ 156 137 0.979 0.005 JR $43501-6-1-2$ 157 137 0.979 0.005 JR $43501-6-1-2$ 158 140 0.979 0.005 JR $43501-6-1-72$ 159 0.978 0.005 JR $43501-5-1-6$ 150 132 0.978 0.005 JR $43501-6-1-72$ 151 150 132 0.978 0.005 JR $43501-6-1-72$ 153 150 0.978 0.005 JR $43501-6-1-72$ 154 157 0.978 0.005 JR $43501-6-1-72$ 155 179 0.978 0.005 JR $43501-6-1-72$ 156 179 0.978 0.005 JR $43501-6-1-72$ 157 157 0.978 0.005 JR $43501-6-1-72$ 158 197 0.978 0.005 JR $43501-6-1-72$ 159 0.979 0.005 JR $43501-6-1-72$ 150 127 0.979 0.005 JR $43501-6-1-72$ 151 150 0.979 0.005 JR $43501-6-1-72$ 152 176 0.9788 0.005 JR $43501-6-1-72$ 153 197 0.979 0.005 JR $43501-6-1-72$ 154 197 0.979 0.005 JR $43501-6-1-72$ 155 197 0.979 0.005 JR $43501-6-1-72$ 156 197 0.979 0.005 JR $43501-6-1-72$ 157 197 0.979 0.005 JR $43501-6-1-72$ 158 197 0.979 0.005 JR 43501	117	, .	125	0.989	0.004	31	54301-6-1-25	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	118	3	126	0.993	0.003	38	54301-10-1-18	
1 130 0.979 0.003 34 3301-6-1-3 123 122 0.988 0.004 34 3301-6-1-24 124 123 0.992 0.004 34 3301-6-1-24 125 124 0.999 0.003 34 3301-6-1-21 126 0.999 0.003 34 3301-6-1-21 127 0.999 0.003 34 3301-6-1-21 128 202 0.999 0.003 34 3301-6-1-21 129 207 0.999 0.003 34 3301-6-1-26 120 0.991 0.004 34 3301-6-1-26 excess gap; transferred from reel 208; VLBA0498? 133 209 0.997 0.004 34 3301-6-1-21 gap problem 133 209 0.997 0.004 34 3301-6-1-21 gap problem 134 205 0.997 0.004 34 3301-61-1-21 gap problem 133 212 0.997 0.004 34 3301-61-1-21 gap problem 135 216 0.997 0.005 31 4301-61-1-21 gap problem 141 219 0.997 0.005 <td>20</td> <td>, ,</td> <td>129</td> <td>0.994</td> <td>0.002</td> <td>31</td> <td>54301-6-1-18</td> <td></td>	20	, ,	129	0.994	0.002	31	54301-6-1-18	
121 0.998 0.005 JH 94301-6-1-7 123 122 0.998 0.004 JH 94301-6-1-2 124 123 0.997 0.002 JH 94301-10-1-21 125 124 0.991 0.002 JH 94301-10-1-21 126 211 0.999 0.003 JH 94301-4-1-8 127 200 0.999 0.003 JH 94301-4-1-16 128 202 0.999 0.003 JH 94301-4-1-16 129 207 0.999 0.003 JH 94301-4-1-26 130 203 0.991 0.004 JH 94301-4-1-26 133 209 0.998 0.004 JH 94301-61-126 excess gap; transferred from reel 208; VLBA0498? 133 209 0.997 0.004 JH 94301-61-12 gap problem 134 205 0.997 0.005 JH 94301-61-12 gap problem 135 206 0.997 0.005 JH 94301-61-12 gap problem 136 217 0.998 0.005 JH 94301-51-12 transferred from 22, then reel 496; prob with excess 141 219 0.998 0.006 JH 94301-51-12 transferred from 24, then reel 496; prob with excess 142 1.99	11	L	130	0.99	2 0.003	38	54301-6-1-3	
123 122 0.998 0.006 33 34301-4-1-4 edge problem after first use 123 124 0.997 0.002 33 34301-40-1-2 edge problem after first use 124 0.997 0.003 33 54301-40-1-2 127 120 0.999 0.003 33 54301-40-1-2 127 201 0.999 0.003 33 54301-40-1-2 128 129 120 0.999 0.003 33 54301-40-1-2 130 203 0.991 0.003 33 54301-40-1-2 excess gap; transferred from reel 208; VLBA04987 133 204 0.997 0.004 33 54301-61-1-2 excess gap; transferred from reel 208; VLBA04987 133 209 0.988 0.004 33 54301-61-1-2 gap problem 134 205 0.987 0.004 33 54301-61-1-2 gap problem 135 204 0.987 0.005 33 54301-81-1-2 gap problem 136 213 0.988 0.005 33 54301-81-1-2 gap 137 212 0.977 0.003 33 54301-81-12 transferred from 22, then reel 496; prob with excess 141 219 0.979 0.005 33 54301-81-12 transferred from 38 54301-3-1-18 144	122	2	131	0.9	7 0.003	πد :	54301-6-1-7	
123 124 0.791 0.002 3F 45301-10-1-21 124 0.999 0.003 3F 45301-41-7 112 127 210 0.999 0.003 3F 53301-41-1-8 129 202 0.999 0.003 3F 53301-41-1-8 129 202 0.999 0.003 3F 53301-41-1-9 130 203 0.991 0.003 3F 53301-41-1-9 131 204 0.991 0.004 3F 54301-41-1-9 132 204 0.991 0.004 3F 54301-41-19 132 204 0.997 0.004 3F 54301-41-19 133 206 0.988 0.006 3F 54301-41-19 gap problem 133 206 0.987 0.004 3F 54301-61-10 gap problem 134 205 0.987 0.004 3F 54301-81-21 gap problem 137 214 0.989 0.005 3F 54301-81-21 gap problem 138 213 0.989 0.005 3F 54301-81-23 transferred from 22, then reel 496; prob with excess 141 219 0.979 0.006 3F 54301-81-12 uas reel 216 and 3F 54301-3-1-18 143 140 0.989 0.005 3F 54301-8	123	5	122	0.988		31	54301-8-1-24	edee erebles often first was
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	125))	123	0.991	0.002	38	54301-10-1-21	adde problem after first use
127 210 0.99 0.003 JR 54301-4-1-0 128 202 0.989 0.003 JR 54301-4-1-10 129 207 0.989 0.003 JR 54301-4-1-19 131 204 0.991 0.003 JR 54301-4-1-19 132 304 0.991 0.004 JR 54301-4-1-19 132 205 0.987 0.004 JR 54301-6-1-13 134 205 0.987 0.004 JR 54301-6-1-19 135 206 0.987 0.004 JR 54301-6-1-19 136 213 0.987 0.004 JR 54301-6-1-10 138 213 0.988 0.005 JR 54301-6-1-10 138 213 0.988 0.005 JR 54301-6-1-20 140 496 JR 54301-8-1-23 141 219 0.997 0.004 JR 54301-8-1-26 142 218 0.997 0.004 JR 54301-8-1-26 144 217 0.997 0.005 JR 54301-8-1-26 145 140 0.99 0.005 JR 54301-8-1-26 146 421 0.998 0.005 JR 54301-8-1-26 147 221 0.991 0.005 JR 54301-8-1-26 148 140 0.99 0.005 JR 54301-8-1-26 149 137 0.988 0.006 JR 54301-9-1-6 149 137 0.998 0.005 JR 54301-9-1-6 149 137 0.998 0.005 JR 54301-9-1-16 149 137 0.998 0.005 JR 54301-9-1-16 149 137 0.999 0.005 JR 54301-9-1-17 150 132 0.999 0.005 JR 54301-9-1-17 151 135 0.99 0.005 JR 54301-9-1-17 152 133 0.991 0.005 JR 54301-9-1-18 153 197 0.988 0.005 JR 54301-9-1-18 154 208 0.997 0.005 JR 54301-9-1-18 155 197 0.988 0.005 JR 54301-9-1-18 156 197 0.988 0.005 JR 54301-9-1-18 157 196 0.988 0.005 JR 54301-9-1-18 158 197 0.989 0.005 JR 54301-9-1-18 159 0.998 0.005 JR 54301-9-1-18 150 197 0.988 0.005 JR 54301-9-1-18 150 197 0.988 0.005 JR 54301-9-1-18 154 201 0.997 0.005 JR 54301-9-1-18 155 197 0.988 0.005 JR 54301-9-1-18 156 197 0.988 0.005 JR 54301-9-1-18 157 196 0.988 0.005 JR 54301-9-1-18 158 197 0.989 0.005 JR 54301-9-1-23 159 0.998 0.005 JR 54301-9-1-23 150 197 0.999 0.005 JR 54301-9-1-23 154 201 0.999 0.005 JR 54301-9-1-24 155 197 0.989 0.005 JR 54301-6-1-23 156 201 0.999 0.005 JR 54301-6-1-23 157 196 0.999 0.005 JR 54301-6-1-23 158 197 0.999 0.005 JR 54301-6-1-23 159 0.999 0.005 JR 54301-6-1-23 150 197 0.999 0.005 JR 54301-6-1-23 154 197 0.999 0.005 JR 54301-6-1-23 155	126	•	211	0.989	0.003	311	54301-4-1-7	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	127	,	210	0.99	0.006	3M	54301-4-1-8	
127 107 0.797 0.003 Th 54301-1-17 130 203 0.991 0.003 Th 54301-4-1-19 131 204 0.99 0.004 Th 54301-4-1-19 132 204 0.997 0.004 Th 54301-4-1-12 133 209 0.988 0.004 Th 54301-8-1-13 134 205 0.987 0.004 Th 54301-8-1-13 135 206 0.987 0.003 Th 54301-8-1-10 136 215 0.987 0.003 Th 54301-8-1-10 138 213 0.998 0.005 Th 54301-8-1-10 139 212 0.992 0.004 Th 54301-8-1-21 140 496 Th 54301-8-1-23 141 219 0.993 0.003 Th 54301-8-1-25 142 218 0.99 0.003 Th 54301-8-1-26 143 217 0.99 0.006 Th 54301-5-1-6 144 159 0.998 0.006 Th 54301-5-1-6 145 140 0.99 0.006 Th 54301-5-1-16 146 421 0.998 0.006 Th 54301-5-1-18 147 221 0.991 0.003 Th 54301-5-1-18 148 137 0.998 0.003 Th 54301-5-1-18 149 138 0.998 0.003 Th 54301-5-1-18 150 132 0.998 0.003 Th 54301-5-1-18 151 133 0.99 0.003 Th 54301-5-1-17 152 133 0.991 0.003 Th 54301-5-1-18 154 428 0.99 0.003 Th 54301-5-1-18 154 129 0.998 0.003 Th 54301-6-1-21 155 197 0.988 0.003 Th 54301-6-1-21 156 197 0.988 0.003 Th 54301-6-1-21 157 196 0.998 0.003 Th 54301-6-1-21 158 197 0.988 0.003 Th 54301-6-1-21 159 196 0.99 0.003 Th 54301-6-1-2 151 150 0.99 0.003 Th 54301-6-1-2 153 197 0.988 0.003 Th 54301-6-1-2 154 197 0.998 0.003 Th 54301-6-1-2 155 192 0.999 0.003 Th 54301-6-1-2 154 193 0.997 0.003 Th 54301-6-1-2 155 192 0.998 0.003 Th 54301-6-1-2 154 193 0.999 0.003 Th 54301-6-1-2 155 192 0.999 0.003 Th 54301-6-1-2 154 193 0.999 0.003 Th 54301-6-1-2 155 194 0.999 0.003 Th 54301-6-1-2 154 197 0.998 0.003 Th 54301-6-1-2 155 194 0.999 0.003 Th 54301-6-1-2 156 0.999 0.003 Th 54301-6-1-2 157 196 0.999 0.003 Th 54301-6-1-2 158 194 0.999 0.003 Th 54301-6-1-2 159 195 0.999 0.003 Th 54301-6-1-2 150 195 0.999 0.003 Th 54301-6-1-2 151 195 0.999 0.003	128		202	0.989	0.003	38	54301-4-1-10	
131 204 0.99 0.004 3h \$4301-4-1-19 132 304 0.991 0.004 3h \$4301-6-1-26 excess gap; transferred from reel 208; VLBA04987 133 209 0.988 0.004 3h \$4301-8-1-15 gap problem 134 205 0.987 0.004 3h \$4301-8-1-10 gap problem 135 215 0.987 0.004 3h \$4301-8-1-10 gap problem 136 213 0.987 0.004 3h \$4301-8-1-10 gap problem 137 214 0.987 0.004 3h \$4301-8-1-21 transferred from 22, then reel 496; prob with excess 141 217 0.993 0.005 3h \$4301-8-1-23 transferred from 22, then reel 496; prob with excess 143 217 0.997 0.006 3h \$4301-8-1-20 transferred from 22, then reel 496; prob with excess 143 217 0.998 0.006 3h \$4301-8-1-16 was reel 216 and 3h \$4301-5-1-18 144 139 0.998 0.005 3h \$4301-8-1-17 was reel 134 and 3h \$4301-8-1-18 147 210 0.998 0.005 3h \$4301-8-1-17 was reel 134 and 3h \$4301-8-1-11 150 132 0.999 0.005 3h \$4301-8-1-12 was reel 134 and 3h	130	, ,	203	0.991	0.003	38	54301-10-1-19	
132 304 0.991 0.004 3H 54301-6-1-26 ercess gap; transferred from reel 208; VLBA0498? 133 209 0.988 0.004 3H 54301-6-1-19 gap problem 133 206 0.987 0.004 3H 54301-6-1-10 gap problem 134 205 0.987 0.004 3H 54301-6-1-5 gap problem 137 214 0.989 0.005 3H 54301-5-1-6 transferred from 22, then reel 496; prob with ercess 140 496 3H 54301-6-1-21 transferred from 22, then reel 496; prob with ercess 141 219 0.997 0.005 3H 54301-5-1-20 transferred from 3H 54301-5-1-18 142 218 0.99 0.005 3H 54301-5-1-20 transferred from 3H 54301-5-1-18 144 139 0.988 0.005 3H 54301-5-1-16 was reel 216 and 3H 54301-5-1-18 144 139 0.998 0.005 3H 54301-5-1-16 was reel 134 and 3H 54301-5-1-18 149 138 0.998 0.005 3H 54301-5-1-12 was reel 134 and 3H 54301-8-1-11 150 132 0.991 0.005 3H 54301-6-1-2 was reel 134 and 3H 54301-8-1-11 151 149 0.999 0.005 3H 54301-6-1-2 wa	131		204	0.99	0.004	31	54301-4-1-19	
133 209 0.988 0.004 3H 54301-0-1-2 gap problem 133 206 0.987 0.004 3H 54301-0-1-2 gap problem 133 206 0.987 0.005 3H 54301-8-1-5 1 134 213 0.987 0.005 3H 54301-8-1-5 1 138 213 0.988 0.005 3H 54301-8-1-21 1 139 212 0.992 0.004 3H 54301-8-1-23 transferred from 22, then reel 496; prob with excess 141 219 0.997 0.005 3H 54301-5-1-23 transferred from 22, then reel 496; prob with excess 143 217 0.997 0.006 3H 54301-50-1-20 was reel 216 and 3H 54301-5-1-18 144 139 0.988 0.006 Sony 121-120-F1 was reel 216 and 3H 54301-5-1-18 144 139 0.989 0.005 3H 54301-5-1-16 was reel 126 and 3H 54301-5-1-18 147 221 0.991 0.005 3H 54301-5-1-16 was reel 134 and 3H 54301-5-1-18 148 137 0.989 0.005 3H 54301-5-1-23 was reel 134 and 3H 54301-8-1-11 153 197 0.989 0.005 3H 54301-7-1-23 was reel 134 and 3H 54301-8-1-11	132	2	304	0.991	0.004	31	54301-6-1-26	excess gap; transferred from reel 208; VLBA0498?
133 205 0.707 0.003 31 940 101 12 940 101 135 215 0.797 0.004 31 54301-6-1-10 138 213 0.997 0.005 31 54301-6-1-10 138 213 0.998 0.005 31 54301-6-1-21 transferred from 22, then reel 496; prob with ercess 141 219 0.997 0.003 31 54301-5-1-23 transferred from 22, then reel 496; prob with ercess 141 219 0.997 0.006 31 54301-5-1-20 transferred from 22, then reel 496; prob with ercess 143 217 0.997 0.006 31 54301-5-1-20 transferred from 24, then reel 496; prob with ercess 144 139 0.998 0.006 5006-5006-1-120 was reel 216 and 311 54301-5-1-16 144 149 0.999 0.005 31 54301-5-1-16 was reel 216 and 311 54301-5-1-16 150 132 0.999 0.005 31	133	5	209	0.988		3M 3M	54301-8-1-15	
134 213 0.987 0.004 3H 54301-8-1-3 137 214 0.989 0.005 3H 54301-5-1-10 138 213 0.988 0.005 H 54301-6-1-21 139 212 0.992 0.004 3H 54301-5-1-4 140 496 3H 54301-8-1-23 transferred from 22, then reel 496; prob with excess 141 219 0.997 0.003 JH 54301-5-1-23 142 218 0.99 0.006 JH 54301-6-1-20 144 139 0.988 0.005 JH 54301-5-1-16 145 140 0.99 0.006 JH 54301-5-1-16 146 421 0.998 0.006 Sn 54301-60-1-120 147 221 0.991 0.005 JH 54301-5-1-18 148 137 0.989 0.005 JH 54301-5-1-18 149 138 0.988 0.005 JH 54301-5-1-28 149 138 0.998 0.005 JH 54301-5-1-2 150 132 0.989 0.005 JH 54301-5-1-2 151 153 0.99 0.005 JH 54301-5-1-2 152 133 0.991 0.005 JH 54301-5-1-2 153 199 0.988 0.005 JH 54301-5-1-2 154 200 0.989 0.005 JH 54301-6-1-11 155 199 0.988 0.005 JH 54301-6-1-2 156 197 0.989 0.005 JH 54301-6-1-2 158 197 0.989 0.005 JH 54301-6-1-2 159 198 0.999 0.005 JH 54301-6-1-2 150 152 0.989 0.005 JH 54301-6-1-2 154 200 0.989 0.005 JH 54301-6-1-2 155 199 0.988 0.005 JH 54301-6-1-2 154 200 0.989 0.005 JH 54301-6-1-2 155 199 0.988 0.005 JH 54301-6-1-2 156 197 0.989 0.005 JH 54301-6-1-2 157 196 0.988 0.005 JH 54301-6-1-2 158 197 0.989 0.005 JH 54301-6-1-2 159 198 0.999 0.005 JH 54301-6-1-2 151 157 0.988 0.005 JH 54301-6-1-2 154 197 0.989 0.005 JH 54301-6-1-2 155 199 0.998 0.005 JH 54301-6-1-2 156 197 0.989 0.005 JH 54301-6-1-2 157 196 0.988 0.005 JH 54301-6-1-2 158 197 0.989 0.005 JH 54301-6-1-2 159 198 0.999 0.005 JH 54301-6-1-2 151 157 0.998 0.005 JH 54301-6-1-2 154 197 0.999 0.003 JH 54301-6-1-2 155 199 0.999 0.003 JH 54301-6-1-2 156 199 0.999 0.003 JH 54301-6-1-2 157 196 0.999 0.003 JH 54301-6-1-2 158 194 0.999 0.003 JH 54301-6-1-2 159 198 0.999 0.003 JH 54301-6-1-2 150 197 0.999 0.003 JH 54301-6-1-2 151 157 196 0.989 0.005 JH 54301-6-1-2 154 197 0.989 0.005 JH 54301-6-1-2 155 194 0.999 0.005 JH 54301-6-1-2 155 194 0.999 0.005 JH 54301-6-1-2 155 194 0.999 0.005 JH 54301-6-1-2 155 194 0.	134		205	0.987	0.004	38	54301-6-1-10	deb brootem
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	136	i	215	0.987	0.004	31	54301-8-1-5	
1382130.0980.005 3M $34301-6-1-21$ 1392120.9920.004 3M $34301-5-1-6$ 1404963M $34301-8-1-23$ transferred from 22, then reel 496; prob with excess1412190.9930.003 3M $34301-5-1-23$ 1422180.990.006 3M $34301-5-1-20$ 1432170.990.006 3M $34301-5-1-20$ 1441390.9880.006 3M $34301-5-1-16$ 1451400.990.005 3M $34301-5-1-16$ 1441370.9880.006 Sony 121-120-F11441380.9880.003 3M $34301-5-1-18$ 1472210.9910.003 3M $34301-5-1-8$ 1491380.9890.003 3M $34301-5-1-4$ 1501320.9890.003 3M $34301-5-1-4$ 1511350.990.003 3M $34301-5-1-4$ 1531990.9063M $34301-6-1-11$ 1531970.9880.005 3M $34301-6-1-23$ 1544280.990.002 3M $34301-6-1-23$ 1581970.9880.003 3M $34301-6-1-23$ 1621740.9880.005 3M $34301-6-1-23$ 1621740.9880.005 3M $34301-6-1-22$ 1641930.990.003 3M $34301-6-1-22$ 1641940.9890.003 3M $34301-6-1-22$ 1641940.9890.003 3M $34301-6-1-23$ 1641940.9890.003 3M $34301-6-1-23$ 1641940.9890.003 3M $34301-6-1-23$ 1641940.989 <td>137</td> <td>,</td> <td>214</td> <td>0.989</td> <td>0.005</td> <td>3M</td> <td>54301-5-1-10</td> <td></td>	137	,	214	0.989	0.005	3M	54301-5-1-10	
137212 0.772 0.000 $34301-9-1-23$ M 54301-9-1-23transferred from 22, then reel 496; prob with excess141219 0.993 0.003 $3H$ 54301-9-1-23transferred from 22, then reel 496; prob with excess142218 0.997 0.005 $3H$ 54301-5-1-23transferred from 22, then reel 496; prob with excess143217 0.997 0.005 $3H$ 54301-5-1-20was reel144139 0.988 0.006 $Sn 54301-5-1-16$ was reel 216 and 3H 54301-5-1-18147221 0.991 0.005 $3H$ 54301-5-1-8148137 0.987 0.005 $3H$ 54301-5-1-18149138 0.988 0.005 $3H$ 54301-5-1-17150132 0.987 0.005 $3H$ 54301-5-1-17153141 0.987 0.005 $3H$ 54301-6-1-11153141 0.989 0.005 $3H$ 54301-6-1-11153141 0.989 0.005 $3H$ 54301-7-1-23154220 0.989 0.005 $3H$ 54301-61-12155179 0.988 0.005 $3H$ 54301-61-23156200 0.989 0.005 $3H$ 54301-61-22161176 0.998 0.005 $3H$ 54301-61-22162176 0.988 0.005 $3H$ 54301-61-22164173 0.997 0.003 $3H$ 54301-61-211651	138		213	0.988	0.005	314	54301-8-1-21	
141 219 0.973 0.003 3H 54301-5-1-23 142 218 0.99 0.005 3H 54301-5-1-20 143 217 0.99 0.006 3H 54301-5-1-20 144 139 0.988 0.006 Sn 54301-5-1-16 145 140 0.99 0.005 3H 54301-5-1-16 146 421 0.988 0.006 Sony 121-120-F1 was reel 216 and 3H 54301-5-1-18 147 221 0.971 0.005 3H 54301-5-1-18 148 137 0.989 0.005 3H 54301-5-1-18 149 138 0.988 0.005 3H 54301-5-1-17 150 132 0.989 0.005 3H 54301-5-1-17 151 135 0.99 0.005 3H 54301-5-1-17 152 133 0.991 0.005 3H 54301-5-1-17 153 141 0.989 0.006 Sny 108-120-01 was reel 134 and 3H 54301-8-1-11 153 141 0.989 0.005 3H 54301-8-1-18 154 428 0.99 0.005 3H 54301-8-1-18 154 428 0.99 0.005 3H 54301-8-1-18 155 199 0.988 0.005 3H 54301-8-1-18 157 196 0.988 0.005 3H 54301-8-1-11 157 196 0.988 0.005 3H 54301-8-1-12 164 2176 0.988 0.005 3H 54301-4-1-22 164 193 0.992 0.005 3H 54301-6-1-22 164 193 0.992 0.005 3H 54301-6-1-23 166 430 0.989 0.005 3H 54301-6-1-24 167 174 0.989 0.003 3H 54301-6-1-21	140)	496	v.772	. 0.004	34	54301-8-1-23	transferred from 22, then reel 496: prob with excess
142218 0.99 0.005 3H 54301-8-1-6143217 0.99 0.006 3H 54301-5-1-20144139 0.980 0.006 3H 54301-5-1-16145140 0.99 0.005 3H 54301-5-1-16146421 0.980 0.006 3h 54301-5-1-18147221 0.991 0.005 3H 54301-5-1-8148137 0.989 0.003 3H 54301-5-1-8149138 0.980 0.003 3H 54301-5-1-7150132 0.989 0.003 3H 54301-5-1-7151135 0.991 0.005 3H 54301-5-1-17152133 0.989 0.005 3H 54301-5-1-17152133 0.989 0.005 3H 54301-6-1-11153199 0.906 3H 54301-6-1-11154428 0.999 0.005 3H 54301-7-1-23156200 0.989 0.005 3H 54301-6-1-21157196 0.989 0.003 3H 54301-6-1-23158197 0.989 0.003 3H 54301-6-1-23162176 0.988 0.005 3H 54301-6-1-23162176 0.988 0.005 3H 54301-6-1-23163197 0.992 0.003 3H 54301-6-1-22164193 0.992 0.003 3H 54301-6-1-22163194 0.991 0.003 3H 54301-6-1-22164193 0.989 0.003 3H 54301-6-1-22165194 0.989 0.003 3H 54301-6-1-22166130 0.989 0.003 3H 54301-6-1-22167174 0.9	141		219	0.993	0.003	31	54301-5-1-23	,,
143 217 0.79 0.000 3H 54301-9-1-20 144 139 0.988 0.006 3H 54301-9-1-20 145 140 0.99 0.005 3H 54301-9-1-16 146 421 0.988 0.006 Sony 121-120-F1 was reel 216 and 3H 54301-5-1-18 147 221 0.991 0.005 3H 54301-5-1-8 149 138 0.989 0.005 3H 54301-5-1-8 149 138 0.989 0.005 3H 54301-5-1-7 150 132 0.989 0.005 3H 54301-5-1-7 152 133 0.991 0.005 3H 54301-5-1-17 153 141 0.989 0.006 3H 54301-6-1-11 153 141 0.989 0.006 3H 54301-6-1-18 154 428 0.99 0.006 3H 54301-7-1-23 156 200 0.989 0.005 3H 54301-6-1-23 158 197 0.988 0.005 3H 54301-6-1-23 158 197 0.988 0.005 3H 54301-6-1-23 158 197 0.988 0.005 3H 54301-6-1-23 162 176 0.988 0.005 3H 54301-6-1-2 161 201 0.99 0.003 3H 54301-6-1-2 162 176 0.988 0.005 3H 54301-6-1-2 163 192 0.99 0.003 3H 54301-6-1-2 164 201 0.99 0.003 3H 54301-6-1-2 165 194 0.992 0.003 3H 54301-6-1-2 164 193 0.992 0.003 3H 54301-6-1-2 165 194 0.999 0.003 3H 54301-6-1-2 164 193 0.999 0.005 3H 54301-6-1-2 165 194 0.999 0.005 3H 54301-6-1-2 164 193 0.999 0.005 3H 54301-6-1-2 165 194 0.999 0.005 3H 54301-6-1-2 166 430 0.999 0.005 3H 54301-6-1-2 167 174 0.989 0.005 3H 54301-6-1-21	142	2	218	0.99	0.005	31	54301-8-1-6	
145 140 0.79 0.005 SH 54301-5-1-16 146 421 0.988 0.006 Sony 121-120-F1 was reel 216 and 3H 54301-5-1-18 147 221 0.991 0.005 3H 54301-5-1-8 148 148 137 0.989 0.005 3H 54301-5-1-8 149 138 0.988 0.003 3H 54301-5-1-21 150 132 0.989 0.005 3H 54301-5-1-21 150 132 0.989 0.005 3H 54301-5-1-17 152 133 0.991 0.005 3H 54301-5-1-17 152 133 0.991 0.005 3H 54301-5-1-18 was reel 134 and 3H 54301-8-1-11 153 141 0.989 0.006 3H 54301-6-1-11 was reel 134 and 3H 54301-8-1-11 155 199 0.988 0.005 3H 54301-4-1-23 was reel 134 and 3H 54301-8-1-11 157 196 0.989 0.002 3H 54301-4-1-23 136 158 197 0.988 0.003 3H 54301-4-1-23 141 159 198 0.99 0.003 3H 54301-4-1-20 141 162 176 0.988 0.003 3H 54301-4-1-21 141 162 176 0.988 </td <td>143</td> <td>•</td> <td>217</td> <td>0.99</td> <td>0.006</td> <td>311 7#</td> <td>34301-3-1-20 54301-008-1-120</td> <td></td>	143	•	217	0.99	0.006	311 7#	34301-3-1-20 54301-008-1-120	
146 421 0.988 0.006 Sony 121-120-F1 was reel 216 and 3H 54301-5-1-18 147 221 0.991 0.005 3H 54301-5-1-8 is reel 216 and 3H 54301-5-1-18 148 137 0.989 0.005 3H 54301-5-1-8 is reel 216 and 3H 54301-5-1-18 149 138 0.989 0.005 3H 54301-5-1-21 is reel 216 and 3H 54301-5-1-18 150 132 0.989 0.005 3H 54301-5-1-71 is reel 134 and 3H 54301-8-1-11 151 135 0.99 0.005 3H 54301-8-1-11 is reel 134 and 3H 54301-8-1-11 153 141 0.989 0.005 3H 54301-7-1-23 is reel 134 and 3H 54301-8-1-11 155 199 0.988 0.005 3H 54301-6-1-23 is reel 134 and 3H 54301-8-1-11 157 196 0.989 0.005 3H 54301-6-1-23 is reel 134 and 3H 54301-8-1-11 158 197 0.988 0.005 3H 54301-6-1-23 is reel 134 and 3H 54301-8-1-11 162 176 0.988 0.005 3H 54301-6-1-23 is reel 173 and 3H 54301-9-1-24 162 176 0.988 0.005 3H 54301-6-1-22 is reel 173 and 3H 54301-9-1-24 163 192 0.999 0.003 3H 54301	144	1	140	0.99	0.005	314	54301-5-1-16	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	146		421	0.988	0.006	So	ny 121-120-F1	was reel 216 and 3H 54301-5-1-18
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	147	7	221	0.991	0.005	31	54301-5-1-18	
150 132 0.989 0.005 3H 54301-5-1-4 151 135 0.99 0.005 3H 54301-5-1-17 152 133 0.991 0.005 3H 54301-6-1-11 153 141 0.989 0.006 3H 54301-8-1-18 154 428 0.99 0.004 Sony 108-120-01 155 199 0.988 0.005 3H 54301-8-1-23 154 200 0.989 0.005 3H 54301-8-1-11 157 196 0.988 0.005 3H 54301-8-1-11 157 196 0.989 0.002 3H 54301-4-1-23 158 197 0.989 0.002 3H 54301-4-1-18 159 198 0.99 0.003 3H 54301-4-1-9 60 195 0.993 0.003 3H 54301-4-1-2 161 201 0.99 0.003 3H 54301-6-1-2 162 176 0.988 0.005 3H 54301-6-1-2 163 192 0.99 0.003 3H 54301-6-1-2 164 193 0.992 0.003 3H 54301-6-1-2 165 194 0.991 0.005 3H 54301-6-1-22 164 193 0.992 0.005 3H 54301-6-1-22 164 193 0.999 0.005 3H 54301-6-1-22 164 193 0.999 0.005 3H 54301-6-1-22 165 194 0.999 0.005 3H 54301-6-1-21 167 174 0.989 0.003 3H 54301-6-1-21	140	,	137	0.988	0.003	38	54301-5-1-21	
151135 0.99 0.005 $3N$ $54301-5-1-17$ 152133 0.991 0.005 $3N$ $54301-6-1-11$ 153141 0.989 0.006 $3N$ $54301-8-1-18$ 154428 0.99 0.004 $Sony$ $108-120-91$ was reel155199 0.968 0.005 $3N$ $54301-8-1-11$ 155199 0.988 0.005 $3N$ $54301-8-1-11$ 157194 0.988 0.005 $3N$ $54301-8-1-23$ 158197 0.989 0.002 $3N$ $54301-4-1-23$ 158197 0.999 0.003 $3N$ $54301-4-1-9$ 60195 0.993 0.003 $3N$ $54301-6-1-23$ 161201 0.99 0.003 $3N$ $54301-6-1-2$ 163192 0.999 0.003 $3N$ $54301-6-1-22$ 164193 0.992 0.003 $3N$ $54301-6-1-22$ 165194 0.991 0.003 $3N$ $54301-6-1-22$ 164193 0.992 0.003 $3N$ $54301-6-1-22$ 165194 0.999 0.003 $3N$ $54301-6-1-22$ 164193 0.992 0.003 $3N$ $54301-6-1-22$ 164193 0.992 0.003 $3N$ $54301-6-1-22$ 165194 0.999 0.003 $3N$ $54301-6-1-21$ 167174 0.989 0.003 $3N$ $54301-6-1-21$ <td>150</td> <td>)</td> <td>132</td> <td>0.989</td> <td>0.005</td> <td>31</td> <td>54301-5-1-4</td> <td></td>	150)	132	0.989	0.005	31	54301-5-1-4	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	151		135	0.99	0.005	38	54301-5-1-17	
1544280.990.004 Sony 108-120-01was reel 134 and 3H 54301-8-1-111551990.9880.005 3H 54301-8-1-12uas reel 134 and 3H 54301-8-1-111571960.9880.005 3H 54301-8-1-121581970.9880.005 3H 54301-6-1-231581970.9990.002 3H 54301-4-1-181591980.9990.003 3H 54301-6-1-231612010.990.003 3H 54301-6-1-21621760.9880.005 3H 54301-6-1-21631920.990.003 3H 54301-6-1-221641930.9920.003 3H 54301-6-1-251651940.9910.003 3H 54301-6-1-251664300.9890.003 3H 54301-6-1-211671740.9890.003 3H 54301-6-1-21	152		133	0.991	0.005	38	54301-6-1-11	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	154		428	0.99	0.004	So	ny 108-120-01	was reel 134 and 3M 54301-8-1-11
1362000.9890.0033M54301-8-1-111571960.9880.0033M54301-6-1-231581970.9890.0023M54301-4-1-91591980.9990.0033M54301-4-1-91601950.9930.0033M54301-6-1-31612010.9990.0032M54301-6-1-21621760.9880.0052M54301-6-1-21631920.9990.0033M54301-6-1-221641930.9920.0033M54301-6-1-251651940.9910.0033M54301-6-1-251664300.9890.0033M54301-6-1-211671740.9890.0033M54301-6-1-21	155	•	199	0.988	0.005	24	54301-7-1-23	
1.571.760.7660.002 3H 54301-6-1-251581970.9890.002 3H 54301-4-1-181591980.9990.003 3H 54301-4-1-9601950.9930.003 3H 54301-4-1-9612010.9990.003 3H 54301-6-1-31621760.9880.005 3H 54301-6-1-21631920.9990.004 3H 54301-6-1-221641930.9920.003 3H 54301-6-1-251651940.9910.005 3H 54301-6-1-251664300.9890.003 3H 54301-6-1-21	156)	200	0.989	0.005	3M	54301-8-1-11	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	154		197	0.788	0.003	38 38	54301-4-1-18	
60 195 0.993 0.003 3H 54301-5-1-20 61 201 0.99 0.003 3H 54301-6-1-3 162 176 0.988 0.005 3H 54301-6-1-2 163 192 0.99 0.004 3H 54301-6-1-22 164 193 0.992 0.003 3H 54301-6-1-25 165 194 0.991 0.003 3H 54301-6-1-25 166 430 0.989 0.005 3hr 107-120-51 was reel 173 and 3H 54301-9-1-24 167 174 0.989 0.003 3H 54301-6-1-21	159	•	198	0.99	0.003	31	54301-4-1-9	
162 176 0.988 0.005 3H 54301-6-1-2 163 192 0.99 0.004 3H 54301-6-1-22 164 193 0.992 0.003 3H 54301-6-1-22 165 194 0.991 0.003 3H 54301-6-1-25 166 430 0.989 0.005 Sonv 107-120-51 was reel 173 and 3H 54301-9-1-24 167 174 0.989 0.003 3H 54301-6-1-21	60)	195	0.993	5 0.003 0 0.07	38	54301-5-1-20 54301-6-1-3	
163 192 0.99 0.004 3H 54301-6-1-22 164 193 0.992 0.003 3H 54301-6-1-22 165 194 0.991 0.003 3H 54301-6-1-25 166 430 0.989 0.005 Sony 107-120-51 was reel 173 and 3H 54301-9-1-24 167 174 0.989 0.003 3H 54301-6-1-21	147		174	0.989	0.003	3H	54301-6-1-2	
164 193 0.992 0.003 JR 54301-7-1-4 165 194 0.991 0.003 JR 54301-6-1-25 166 430 0.989 0.005 Sony 107-120-51 was reel 173 and JM 54301-9-1-24 167 174 0.989 0.003 JM 54301-6-1-21	163		192	0.99	0.004	34	54301-6-1-22	
166 430 0.989 0.005 Sony 107-120-51 was reel 173 and 3M 54301-9-1-24 167 174 0.989 0.003 3M 54301-6-1-21	164	k	193	0.992	0.003	38	54501-7-1-4 54301-6-1-25	
167 174 0.989 0.003 JH 54301-6-1-21	165		430	0,989	0.005	So	ny 107-120-61	was reel 173 and 3M 54301-9-1-24
	167	,	174	0.989	0.003	24	54301-6-1-21	

Appendix D

Thin Tape Inventory

	175	0.99	0.006 34 34301-8-1-16	
169	181	0.99	0.005 3M 54301-8-1-10	
170	180	0.992	0.004 38 54301-4-1-16	edge problem after first use
171	172	0.992	0.002 34 54501-4-1-20	
172	178	0.968	0.003 34 34301-10-1-17	
174	177	0.992	0.003 30 54301-10-1-17	
175	148	0.99	0.004 38 54301-4-1-11	
176	146	0.99	0.006 38 54301-4-1-9	
177	147	0.989	0.005 38 34301-6-1-22	
178	151	0.989	0.003 34 54301-10-1-11	
189	150	0.992	0.004 38 54301-4-1-3	
181	407		Sonv	was reel 144; gap problem with original 3H tape
182	149	0.988	0.005 38 54301-4-1-22	
183	143	0.989	0.005 38 54301-4-1-18	
185	142	0.989	0.005 34 54301-6-1-4	
184	171	0.992	0.003 38 54301-8-1-7	
187	169		38 54301-5-1-24	transferred to 405 and back to 169 to solve excess o
188	163	0.989	0.004 JN 54301-8-1-17	
187	170	0.78/	0.003 34 54301-5-1-4	
171	••••	•••••		
172	304	0.788	0.005 3H 54301-8-1-4	
193	305	0.988	0.005 3M 54301-10-1-22	escessive scaller
199	303	0.991	0.005 3A 54301-5-1-12	BER 24 24201-10-1-22 1461 2041 (Hell 24 24200-003-1-5
196	302	0.994	0.002 38 54301-8-1-26	
197			Sany 105-120-V1	transferred from 233 to 311 after tape bunped up, th
198	324	0.998	0.004 38 54301-3-1-7	transferred from reel 310 after edge problem
200	307	0.99	0.005 38 54301-10-1-13	
201	307	0.987	0.006 3M 54301-10-1-7	
202	256	0.99	0.004 38 54301-5-1-22	
203	255	0.993	0.003 38 54301-4-1-1	
204	234	0.991	0.002 34 34301-4-1-22	
204	252	0.99	0.004 38 54301-10-1-24	edge probles
207	261	0.998	0.004 38 54301-4-1-4	edge probles
208	260	0.994	0.002 JM 54301-10-1-5	
209	259	0.988	0.003 3M 54301-8-1-8	h
210	422	A 991	0 003 30 54301-10-1-20	bueps, transferred from 238
212	297	0.987	0.002 34 54301-10-1-8	
213	298	0.788	0.005 JN 54301-8-1-2	edge problem after first use
214	296	0.99	0.004 34 54301-4-1-2	edge problem after first use
215	293	0.991	0.004 34 54300-4-1-23	adea arables after first use
210	274	0.988	0.004 38 54301-4-1-21	edge problem after first use
219	292	0.991	0.005 3H 54300-7-1-21	
219	301	0.987	0.005 38 54301-4-1-25	
220	300	0.991	0.003 34 54301-4-1-17	
221	799	0.77	0.002 34 54301-10-1-3	
	297	A 999		HAS FEEL 288
223	287 424	0.988 0.987	0.002 Sony 119-120-C1	
223 224	287 424 289	0.988 0.987 0.993	0.002 Sony 119-120-C1 0.003 3H 54300-4-1-7	
223 224 225	287 424 289 290	0.988 0.987 0.993 0.993	0.002 Sony 119-120-C1 0.003 3H 54300-4-1-7 0.002 3H 54300-7-1-1	edge probles; spoked up
223 224 225 226 227	287 424 289 290 453	0.988 0.987 0.993 0.993 0.99	0.002 Sony 119-120-C1 0.003 3H 54300-4-1-7 0.002 3H 54300-7-1-1 0.004 Sony 104-120-C1 0.003 5H 543018-1-12	edge probles; spoked up was reel 291 and 38 34301-6-1-8 cdes scholes
223 224 225 226 227 228	287 424 289 290 435 282 283	0.788 0.797 0.773 0.773 0.798 0.798 0.792	0.002 Sony 119-120-C1 0.003 3H 54300-4-1-7 0.002 3H 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3H 54301-8-1-12 0.003 3H 54301-8-1-12	edge problem was remi 291 and 38 34301-6-1-8 edge problem
223 224 225 226 227 228 229	287 424 289 290 435 282 283 284	0.988 0.997 0.993 0.993 0.99 0.998 0.998 0.992 0.99	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.002 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-10 0.005 3N 54301-8-1-9	edge probles; spoked up vas reel 291 and 38 34301-6-1-8 edge problem
223 224 225 226 227 228 229 230	287 424 289 270 435 282 283 284 285	0.788 0.997 0.993 0.999 0.999 0.988 0.999 0.999 0.987	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.002 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-9 0.005 3N 54301-8-1-9 0.005 3N 54301-8-1-2	edge problem; spoked up was remi 291 and 38 34301-6-1-8 edge problem
223 224 225 226 227 228 227 230 231	287 424 289 270 453 282 283 284 285 284	0.788 0.797 0.973 0.979 0.999 0.988 0.972 0.999 0.987 0.988	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.002 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-2 0.005 3N 54301-8-1-9 0.005 3N 54301-8-1-25 0.004 3N54300-005-1-024	edge probles; spoked up was reel 291 and 38 34301-6-1-8 edge problem tape bunped up; edge probless
223 224 225 226 227 228 227 230 231 231 232 233	287 424 289 270 455 282 283 284 285 286 286 284 285 286 284 285	0.788 0.997 0.993 0.99 0.998 0.999 0.999 0.987 0.987 0.987 0.982 0.992	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.002 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-2 0.003 3N 54301-8-1-2 0.005 3N 54301-8-1-9 0.005 3N 54300-005-1-024 0.004 3N 54300-005-1-024 0.004 3N 54300-5-1-14	edge problee; spoked up was real 291 and 38 34301-6-1-8 edge problem tape bunped up; edge problems edge problem After first was
223 224 225 226 227 228 229 230 231 232 233 234	287 424 289 270 433 283 283 284 285 284 285 284 243 244	0.788 0.993 0.993 0.99 0.988 0.992 0.987 0.987 0.988 0.992 0.991	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.002 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.005 3N 54301-8-1-9 0.005 3N 54300-4-1-25 0.004 3N 54300-405-1-024 0.004 3N 54300-5-1-024 0.005 3N 54300-5-1-14	edge problem; spoked up una real 291 and 38 34301-6-1-8 edge problem tape bumped up; edge problems edge problem after first use
223 224 225 226 227 230 231 232 233 234 233	287 424 289 270 433 283 284 285 284 285 284 265 244 265	0.988 0.997 0.993 0.999 0.988 0.999 0.989 0.987 0.988 0.992 0.991 0.989	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.002 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-9 0.005 3N 54301-8-1-9 0.005 3N 54300-6-1-25 0.004 3N 54300-6-1-25 0.004 3N 54300-5-1-25 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-23	edge problea; spoked up vas real 291 and 38 34301-6-1-8 edge problea tape bunped up; edge probleas edge problea after first use
223 224 225 226 227 230 231 232 233 234 235 234	287 424 289 293 283 283 285 285 285 285 285 285 285 285 285 285	0.988 0.987 0.993 0.993 0.999 0.988 0.999 0.987 0.988 0.999 0.9991 0.991 0.989 0.991	0.002 Sony 119-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54300-7-1-1 0.003 3N 54301-8-1-2 0.003 3N 54301-8-1-2 0.005 3N 54301-8-1-2 0.004 3N 54300-05-1-024 0.004 3N 54300-5-1-2 0.005 3N 54300-5-1-2	edge problem; spoked up was remi 291 and 38 54301-6-1-8 edge problem tape bumped up; edge problems edge problem after first use
223 224 225 226 227 228 229 230 231 232 233 234 235 234 235 236 237 238	287 424 289 270 455 282 283 284 242 243 244 245 264 265 264 267 248	0.988 0.987 0.993 0.999 0.998 0.999 0.987 0.988 0.992 0.991 0.989 0.991 0.989 0.991	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.002 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-2 0.003 3N 54301-8-1-2 0.005 3N 54301-8-1-9 0.005 3N 54300-10-2 0.004 3N 54300-50-1-024 0.004 3N 54300-50-1-024 0.005 3N 54300-5-1-14 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-1-1 0.005 3N 54300-5-1-1-100000000000000000000000000000	edge problem; spoked up was real 291 and 3R 34301-6-1-8 edge problem tape bunped up; edge problems edge problem after first use
223 224 225 226 227 228 229 230 231 232 233 234 235 234 235 236 237 238 239	297 424 289 453 282 283 284 285 284 285 284 265 264 265 264 265 264 265	0.988 0.987 0.993 0.999 0.998 0.999 0.987 0.999 0.987 0.991 0.991 0.989 0.991 0.992 0.991 0.992	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.005 3N 54301-8-1-9 0.005 3N 54300-6-1-6 0.005 3N 54300-6-1-6 0.005 3N 54300-5-1-24 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-118 0.004 3N 54300-3-1-118	edge problea; spoked up usa real 291 and 38 34301-6-1-8 edge problem tape bumped up; edge problems edge problem after first use
223 224 225 226 227 228 229 230 231 232 233 234 233 234 235 236 237 238 239 240	287 424 289 270 455 282 283 284 285 286 242 245 265 264 245 264 247 248 247 248 247	0.988 0.993 0.993 0.999 0.999 0.999 0.999 0.987 0.987 0.988 0.992 0.991 0.991 0.991 0.991 0.999 0.999 0.999 0.9992	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-2 0.003 3N 54301-8-1-2 0.005 3N 54301-8-1-9 0.005 3N 54301-8-1-9 0.005 3N 54300-005-1-024 0.004 3N 54300-005-1-025 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25	edge problea; spoked up vas real 291 and 38 34301-6-1-8 edge problea tape buaped up; edge probleas edge problea after first use
223 224 225 226 227 228 227 230 231 232 233 234 233 234 235 235 236 237 238 237 238 237 236 237 239 240 241	287 424 289 270 453 282 283 284 285 286 242 263 264 265 264 267 268 267 268 267 267	0.788 0.797 0.797 0.797 0.798 0.798 0.797 0.987 0.798 0.797 0.797 0.797 0.797 0.797 0.797 0.797	0.002 Sony 119-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-1-1-10 0.005 3N 54301-1-1-10 0.005 3N 54301-1-1-23 0.004 3N 54300-005-1-024 0.004 3N 54300-5-1-14 0.002 3N 54300-5-1-14 0.003 3N 54300-5-1-14 0.003 3N 54300-5-1-15 0.003 3N 54300-5-1-15 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.005 3N 54300-5-1-18	edge problem; spoked up was remi 291 and 38 34301-6-1-8 edge problem tape bunped up; edge problems edge problem after first use
223 224 225 226 227 230 231 232 233 234 235 234 235 234 235 236 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 233 234 235 234 235 235 24 24 25 26 26 27 26 26 27 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	287 424 289 289 280 282 283 284 265 264 265 266 265 266 265 266 267 270 271 241 321	0.788 0.793 0.793 0.793 0.788 0.792 0.788 0.792 0.787 0.782 0.791 0.791 0.791 0.791 0.791 0.792 0.792 0.794 0.792	0.002 Sony 119-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-2 0.005 3N 54301-8-1-2 0.004 3N 54301-8-1-2 0.004 3N 54301-6-1-2 0.005 3N 54300-50-1-024 0.005 3N 54300-50-1-14 0.002 3N 54300-5-1-14 0.002 3N 54300-5-1-14 0.004 3N 54300-5-1-12 0.005 3N 54300-5-1-12 0.005 3N 54300-5-1-12 0.005 3N 54300-5-1-12 0.005 3N 54300-5-1-12 0.005 3N 54300-5-1-2 0.005 3	edge probles tape busped up; edge probles edge probles tape busped up; edge probless edge probles after first use
223 224 225 225 228 227 227 230 231 232 233 234 233 234 233 234 235 239 240 241 242 241 242 244	287 424 289 270 435 283 284 285 285 285 285 284 265 264 265 266 267 266 267 266 267 270 270 271 241 321 239	0.988 0.997 0.993 0.998 0.988 0.988 0.987 0.988 0.987 0.988 0.992 0.991 0.991 0.991 0.991 0.991 0.991 0.992 0.988 0.992 0.988 0.992 0.988 0.993	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.005 3N 54301-8-1-9 0.005 3N 54300-6-1-25 0.004 3N 54300-6-1-25 0.004 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-18 0.005 3N 54300-5-1-12 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2	edge problea tape buaped up; edge probleas edge problea tape buaped up; edge probleas edge problea after first use edge problea transferred from reel 240 after escess scatter
223 224 225 225 228 227 230 231 232 234 233 234 233 234 235 234 237 236 237 236 237 236 241 242 243 243 244	287 424 289 270 455 282 283 284 285 284 285 284 265 264 265 264 265 264 270 271 271 271 239 239	0.788 0.993 0.993 0.993 0.788 0.798 0.788 0.999 0.987 0.991 0.789 0.991 0.789 0.991 0.789 0.991 0.789 0.992 0.992 0.984 0.999 0.984 0.989	0.002 Sony 119-120-C1 0.003 3N 44300-4-1-7 0.003 3N 44300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 44301-8-1-9 0.003 3N 44301-8-1-9 0.005 3N 54301-8-1-9 0.005 3N 54301-8-1-9 0.005 3N 54300-003-1-024 0.004 3N 54300-003-1-024 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-6 0.005 3N 54300-5-1-6 0.005 3N 54300-5-1-6 0.005 3N 54300-5-1-6 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-6 0.005 3N 54300-5-1-6 0.005 3N 54300-5-1-2 0.005 3N 5	edge problee; spoked up was real 291 and 38 54301-6-1-8 edge problee tape bumped up; edge problees edge problee after first use edge problee transferred from real 240 after escess scatter
223 224 225 225 226 227 228 227 230 231 233 234 233 235 235 235 238 237 238 237 238 237 238 237 238 237 238 237 240 241 242 243 244 243 244 243 244 243 244	287 424 289 270 433 282 283 284 285 284 285 284 263 264 263 264 264 264 264 264 270 271 241 238 237 238 237 238	0.988 0.993 0.993 0.993 0.999 0.997 0.998 0.997 0.997 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.992 0.992 0.998 0.998 0.998 0.998 0.998 0.993 0.993 0.993	0.002 Sony 119-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-1-120 0.005 3N 54301-1-1-10 0.005 3N 54301-1-1-10 0.005 3N 54300-05-1-024 0.004 3N 54300-05-1-024 0.004 3N 54300-5-1-25 0.003 3N 54300-5-1-25 0.003 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.0	edge problee; spoked up was real 291 and 38 34301-6-1-8 edge problee tape bunped up; edge problees edge problee after first use edge problee transforred from real 240 after escess scatter
223 224 223 225 227 228 230 231 232 233 234 235 234 237 236 237 239 240 242 241 242 241 244 244 244 244 244	287 424 289 270 453 282 283 284 285 284 263 264 263 264 265 264 267 268 267 264 267 264 271 271 271 239 238 237 364	0.988 0.993 0.993 0.993 0.999 0.988 0.992 0.992 0.991 0.991 0.991 0.991 0.992 0.991 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.993 0.993 0.993 0.993	0.002 Sony 119-120-C1 0.003 3H 54300-4-1-7 0.003 3H 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3H 54301-8-1-12 0.003 3H 54301-8-1-12 0.005 3H 54301-8-1-9 0.005 3H 54300-6-1-024 0.005 3H 54300-5-1-24 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-12 0.005 3H 54300-5-1-12 0.005 3H 54300-5-1-12 0.005 3H 54300-5-1-12 0.005 3H 54300-5-1-24 0.005 3H 54300-5-1-24 0.005 3H 54300-5-1-2 0.005	edge problee; spoked up was real 291 and 38 34301-6-1-8 edge problee tape busped up; edge problees edge problee after first use edge problee after first use transferred from real 240 after escess scatter transferred from real 236 transferred from real 236
223 224 225 225 227 228 227 230 231 230 231 233 234 233 234 233 234 243 242 243 244 243 244 244	287 424 289 270 453 282 283 284 285 284 263 264 263 264 265 264 265 264 270 271 241 321 241 321 239 239 239 239 239 239 239 239 239 239	0.788 0.993 0.993 0.993 0.998 0.998 0.998 0.999 0.987 0.987 0.991 0.991 0.991 0.991 0.991 0.991 0.992 0.991 0.992 0.992 0.992 0.992 0.992 0.998 0.993 0.993 0.999 0.988	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.005 3N 54301-8-1-9 0.005 3N 54300-64-1-25 0.004 3N 54300-60-1-024 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-2 0.005 3N 5400-5-1-2000-500000000000	edge problem ; spoked up was real 291 and 38 34301-6-1-8 edge problem tape bumped up; edge problems edge problem after first use edge problem after first use transferred from real 240 after escess scatter transferred from real 236 transferred from real 236
223 224 225 225 226 230 231 233 234 233 234 233 235 235 235 236 237 239 240 241 243 244 243 244 243 244 243 244 245 249 230	287 424 289 270 289 283 283 284 285 284 242 243 264 242 264 247 247 247 270 271 241 239 237 239 237 237 321 239 237 237 237 237 237 237 237 237 237 237	0.788 0.793 0.793 0.997 0.998 0.999 0.988 0.992 0.988 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.992 0.991 0.992 0.998 0.998 0.989 0.989 0.989 0.989 0.998	0.002 Sony 119-120-C1 0.003 3N 44300-4-1-7 0.003 3N 44300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 44301-1-1-10 0.003 3N 54301-8-1-9 0.005 3N 54301-8-1-9 0.005 3N 54300-4-1-25 0.004 3N 54300-003-1-024 0.004 3N 54300-51-21 0.005 3N 54300-51-22 0.003 3N 54300-51-21 0.005 3N 54300-51-21 0.005 3N 54300-51-21 0.005 3N 54300-51-21 0.005 3N 54300-51-2 0.005 3	edge probles; spoked up was real 291 and 3R 54301-6-1-8 edge probles tape bunged up; edge probless edge probles after first use edge probles after first use transferred from real 240 after escess scatter transferred from real 236 transferred from real 235 transferred from real 235
223 224 225 225 226 227 228 230 231 232 233 234 235 234 235 234 237 238 239 240 241 242 243 244 243 244 244 244 244 244 244	287 424 289 270 453 282 283 284 285 284 262 263 264 262 264 265 264 265 264 267 271 241 339 237 364 237 364 257 251	0.988 0.993 0.993 0.993 0.999 0.998 0.997 0.998 0.997 0.998 0.997 0.991 0.999 0.997 0.999 0.997 0.988 0.997 0.988 0.999 0.989 0.989 0.989 0.989	0.002 Sony 119-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54300-7-1-1 0.004 Sony 104-120-C1 0.003 3N 54301-1-1-20 0.005 3N 54301-1-1-10 0.005 3N 54301-1-1-23 0.004 3N 54300-05-1-024 0.004 3N 54300-5-1-024 0.005 3N 54300-5-1-25 0.003 3N 54300-5-1-25 0.003 3N 54300-5-1-25 0.003 3N 54300-5-1-12 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.004 3N 54300-5-1-2 0.003 3N 54300-5-1-2 0.003 3N 54300-5-1-2 0.003 3N 54300-5-1-2 0.003 3N 54300-5-1-2 0.003 3N 54300-5-1-2 0.003 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.004 Sony 109-120-E1 Sony 113-128-K1 0.004 Sony 109-120-E1 0.004 3N 54300-5-1-2 0.004 Sony 109-120-E1 0.004 Sony 109-120-E1 0.005 Sony 109	edge problee; spoked up was real 291 and 38 54301-6-1-8 edge problee tape bunped up; edge problees edge problee transferred from real 240 after escess scatter transferred from real 236 transferred from real 233 transferred from real 233 transferred from real 233 transferred from real 233 transferred from real 233
223 224 225 225 227 228 230 231 232 233 234 235 234 237 238 237 238 237 239 240 242 243 244 244 244 244 244 244 244 244	287 424 289 270 453 282 283 284 285 284 263 264 263 264 265 264 265 264 267 268 267 268 267 268 267 268 267 268 267 268 271 271 239 239 237 364 232 232 232 232 232 232 232 232 232 23	0.988 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.992 0.992 0.992 0.991 0.992 0.991 0.991 0.992 0.991 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.992 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.993 0.994 0.993 0.994 0.995 0.996 0.995	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.005 3N 54301-8-1-9 0.005 3N 54300-6-1-25 0.004 3N 54300-6-1-25 0.004 3N 54300-5-1-26 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-21 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.006 3N 54300-5-1-7 0.006 3N 54300-5-1-7	edge problee; spoked up was real 291 and 38 34301-6-1-8 edge problee tape busped up; edge problees edge problee after first use edge problee after first use transferred from real 240 after escess scatter transferred from real 236 transferred from real 235 transferred from real 233 transferred from real 233 transferred from real 233 transferred from real 233
223 224 225 225 226 230 231 230 231 233 234 233 234 233 234 233 234 237 238 239 240 241 242 243 244 243 244 244 245 244 247 248 249 250 251 251 252 253 254 255 254 255 255 256 257 257 257 257 257 257 257 257 257 257	287 424 289 289 289 282 283 284 285 284 265 264 265 264 265 264 267 268 270 271 241 321 239 239 239 237 364 237 354 237 237 239 237 239 237 239 237 239 237 239 237 239 237 239 237 239 237 239 237 237 239 237 237 237 237 237 237 237 237 237 237	0.988 0.993 0.993 0.993 0.999 0.999 0.999 0.999 0.999 0.999 0.9991 0.9991 0.9991 0.9991 0.9991 0.9991 0.9991 0.9992 0.9899 0.989 0.9899 0.9899 0.9889 0.9889	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-7 0.005 3N 54300-4-1-25 0.004 3N 54300-05-1-024 0.004 3N 54300-5-1-25 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.004 3N 54300-5-1-1 0.004 3N 54300-5-1-1 0.004 3N 54300-5-1-1 0.004 3N 54300-5-1-1	edge problee; spoked up was real 291 and 38 54301-6-1-8 edge problee tape bunped up; edge problees edge problee after first use edge problee after first use transferred from real 240 after escess scatter transferred from real 236 transferred from real 236 transferred from real 233 transferred from real 233
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223 224 225 225 227 228 230 231 232 233 234 235 234 237 234 237 239 240 242 243 244 244 244 244 244 244 244 244	287 424 289 270 453 282 283 284 265 264 265 264 265 264 265 264 267 266 267 271 241 329 237 241 329 237 364 251 237 364 209 237 241 239 237 241 241 241 241 241 245 267 269 270 270 270 270 270 270 285 285 285 285 285 285 285 285 285 285	0.988 0.993 0.993 0.993 0.993 0.993 0.993 0.995 0.995 0.995 0.995 0.995 0.995 0.997 0.997 0.998 0.997 0.998 0.997 0.988 0.999 0.989 0.997 0.989 0.997 0.988 0.997 0.989 0.997 0.989 0.997 0.989 0.997 0.989 0.997 0.989 0.997 0.989 0.997 0.989 0.997 0.989 0.999 0.999 0.999 0.999 0.999 0.99900 0.99900 0.99900000000	0.002 Sony 119-120-C1 0.003 3H 54300-4-1-7 0.007 3H 54300-4-1-7 0.007 3H 54300-4-1-7 0.008 Sony 104-120-C1 0.003 3H 54301-8-1-12 0.003 3H 54301-8-1-12 0.005 3H 54300-4-1-25 0.004 3H 54300-4-1-25 0.004 3H 54300-3-1-024 0.005 3H 54300-3-1-024 0.005 3H 54300-3-1-21 0.005 3H 54300-3-1-21 0.005 3H 54300-3-1-21 0.005 3H 54300-3-1-12 0.005 3H 54300-3-1-12 0.005 3H 54300-3-1-12 0.005 3H 54300-3-1-12 0.005 3H 54300-3-1-12 0.005 3H 54300-3-1-21 0.005 3H 54300-3-1-21 0.005 3H 54300-3-1-22 0.005 3H 54300-3-1-27 0.005 3H 54300-3-1-27 0	edge probles; spoked up was real 291 and 38 54301-6-1-8 edge probles tape bunped up; edge probless edge probles after first use edge probles after first use transferred from real 240 after escess scatter transferred from real 236 transferred from real 236 transferred from real 233 transferred from real 234 transferred from real 232; accel test II, edge and s spliced out folded over area
223 224 225 225 227 228 230 231 232 233 234 233 234 233 234 242 243 242 244 245 249 240 241 242 244 245 244 249 251 252 253 254 253 254 253 254 253 254 255 255 255 255 255 255 255 255 255	287 424 289 270 453 282 283 284 263 284 263 264 263 264 263 264 263 264 265 264 267 268 267 268 271 241 321 239 238 244 237 241 323 237 242 237 242 237 242 242 249 270 249 244 242 244 245 244 245 267 267 267 267 268 267 267 268 267 268 268 269 269 269 269 269 269 269 269 269 269	0.7887 0.993 0.993 0.997 0.988 0.997 0.988 0.997 0.988 0.9991 0.991 0.991 0.991 0.991 0.991 0.984 0.984 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.988 0.995 0.989 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.985 0.995 0.985 0.995 0.985 0.995 0.985 0.995 0.985 0.995 0.985 0.995 0.985 0.995 0.985 0.995 0.90	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.005 3N 54301-8-1-7 0.005 3N 54301-8-1-7 0.005 3N 54300-6-1-25 0.004 3N 54300-6-1-25 0.004 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-18 0.004 3N 54300-5-1-18 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.005 Sony 105-120-61 0.004 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.005 Sony 105-120-61 0.004 3N 54300-5-1-2 0.005 Sony 105-120-61 0.005 Sony 105-120-61 0.005 Sony 105-120-61	edge problee; spoked up was reel 291 and 38 34301-6-1-8 edge problee tape busped up; edge problees edge problee transferred from reel 240 after escess scatter transferred from reel 236 transferred from reel 236 transferred from reel 233 transferred from reel 233 transferred from reel 233 transferred from reel 233 transferred from reel 235 transferred from reel 235 transferred from reel 236 transferred from reel 236
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223 224 225 225 226 227 228 230 231 232 233 234 235 234 237 236 237 238 241 242 243 244 244 244 244 244 244 244 244	287 424 289 270 453 282 283 284 285 284 265 264 265 264 267 268 267 268 267 268 267 268 267 271 241 329 237 241 329 237 364 227 241 239 237 241 237 241 237 241 237 241 242 267 267 267 267 267 267 267 267 267 26	0.988 0.993 0.993 0.993 0.993 0.993 0.998 0.992 0.998 0.992 0.991 0.991 0.991 0.991 0.997 0.998 0.999 0.988 0.999 0.988 0.989 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.988 0.997 0.989 0.997 0.988 0.997 0.989 0.997 0.988 0.997 0.989 0.997 0.989 0.997 0.9990 0.9990 0.9990 0.9990 0.9990 0.9990 0.9990 0.9990 0.9990 0.9900 0.9900000000	0.002 Sony 119-120-C1 0.003 3H 54300-4-1-7 0.003 3H 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3H 54301-8-1-12 0.003 3H 54301-8-1-12 0.005 3H 54301-8-1-9 0.005 3H 54300-6-1-25 0.004 3H 54300-6-1-024 0.005 3H 54300-5-1-24 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-12 0.005 3H 54300-5-1-12 0.005 3H 54300-5-1-12 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-21 0.005 3H 54300-5-1-22 0.005 Sony 109-120-61 0.004 3H 54300-5-1-7 0.006 3H 54300-5-1-7 0.006 3H 54300-5-1-7 0.006 3H 54300-5-1-7 0.006 3H 54300-5-1-7 0.005 3H 54300-5-1-7 0.0	edge probles; spoked up was real 291 and 38 54301-6-1-8 edge probles tape bunped up; edge probless edge probles transforred from real 240 after escess scatter transforred from real 236 transforred from real 236 transforred from real 233 transforred from real 234 transforred from real 232; accel test II, edge and s spliced out folded over area transforred from real 226 was real 223, tape 38 34300-003-1-23; folded and sea
223 224 225 225 227 228 230 231 230 231 232 233 234 233 234 243 242 243 244 243 244 244	287 424 289 270 453 282 283 284 285 284 263 264 263 264 263 264 263 264 265 264 267 268 267 268 271 241 321 239 238 237 248 237 248 237 238 237 248 237 248 249 228 244 243 259 244 243 259 244 269 270 269 269 269 269 269 269 269 269 269 269	0.7887 0.997 0.993 0.997 0.998 0.997 0.988 0.997 0.998 0.999 0.999 0.999 0.999 0.999 0.999 0.999 0.999 0.989 0.989 0.989 0.989 0.989 0.988 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.988 0.989 0.989 0.988 0.989 0.999 0.999 0.999 0.999 0.99910.999	0.002 Sony 119-120-C1 0.003 3N 54300-4-1-7 0.003 3N 54300-4-1-7 0.004 Sony 104-120-C1 0.003 3N 54301-8-1-12 0.003 3N 54301-8-1-12 0.005 3N 54301-8-1-9 0.005 3N 54300-6-1-25 0.004 3N 54300-6-1-25 0.004 3N 54300-5-1-26 0.005 3N 54300-5-1-25 0.005 3N 54300-5-1-2 0.005 3N 54300-5-1-2 0.004 3N 54300-5-1-2 0.005 3N 54300-5-1-7 0.004 Sony 109-120-F1 0.004 Sony 109-120-F1 0.004 3N 54300-5-1-7 0.006 3N 54300-5-1-7 0.006 3N 54300-5-1-7 0.006 3N 54300-5-1-7 0.006 3N 54300-5-1-7 0.006 3N 54300-5-1-22 0.005 Sony 113-120-F1 0.004 3N 54300-5-1-27 0.005 Sony 113-120-F1 0.005 3N 54300-5-1-27 0.005 3N 54300-5-1	edge problee; spoked up was real 291 and 38 54301-6-1-8 edge problee tape busped up; edge problees edge problee transferred from real 240 after excess scatter transferred from real 236 transferred from real 235 transferred from real 236 transferred fro
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267	277	0.99	0.005 JN 54300-5-1-18	
268	392	0.993	0.005	transferred from reel 278
270	366	0.988	0.002 Sonv 105-120-U1	transferred from reel 280
271	281	0.991	0.002 38 54300-003-1-018	
272	407	0.787	0.003 38 54301-004-1-014	tape from reel 0144 (VLBA0181); also was reel 246 3M
273	404	0.987	0.004 Sony 109-120-11	transferred from reel 245
274	244	0.989	0.005 58 54300-3-1-24	edge problem; pack shift
275	243	0.992	0.003 Sany 113-120-01	packing problems; was 3M 54300-8-1-24
274	242	0.993	0.003 38 54300-7-1-11	
277	344	0 997	0 004 See. 104-120-N1	
370	242	A 993	0.002 38 54300-3-1-7	naching arabless
276	24/	0.773	0.002 31 34300-3-1-7	herring hightees
200	297	0.787	0.004 Sony 107-120-01	
281	230	0.787	0.004 5889 109-120-11	
282	425	0.787	0.004 5889 108-120-71	
283	420	0.787	0.001 Sany 110-120-11	
284	4/0	0.991	0.003 Sony 118-120-01	
285	429	0.989	0.003 Sony 118-120-L1	
286	463	0.991	0.002 Sony 106-120-H1	
287	433	0.99	0.004 Sony 116-120-11	
288	432	0.991	0.005 Sony 124-120-91	
289	460	0.99	0.004 Sany 104-120-81	
240	434	0.987	0.004 Sany 104-120-61	
271	436	0.991	0.004 Sony 110-120-11	
292	402	0.987	0.005 Sany 118-120-WI	
293	234	0.992	0.003 Sony 124-120-RI	
294	466	0.993	0.003 Sony 110-120-51	
295	447	0.99	0.004 Sony 110-120-C1	
296	445	0.989	0.005 Sony 110-120-F1	
297	417	0.989	0.003 Sony 110-120-R1	
279	418	0,987	0.004 Sony 110-120-P1	
299	419	0.988	0.004 Sony 110-120-01	
300	189		50ny 136-114-11	
301	188		50ny 116-120-F1	• • • •
30Z	187		50ny 117-120-F1	Busped up
303	190		50ny 117-120-E1	
304	191		Sony 106-120-11	
305	108		Sony 115-120-81	• .
306	184		Sony 103-120-01	Bunped up
307	185		Sony 115-120-A1	Bumped up; Haystack testing
208	183		Sony 115-120-61	
304	186		Sony 136-114-K1	Wrinkled area near lisense troe thread error
310	166		Sony 136-114-61	Haystack testing
311	164		Sony 136-114-F1	transferred from reel 163
312	369	0.991	0.004	
313	378	0.991	0.003	
314	282	0.993	0.003	
315	379	0.989	0.004	
316	334	0.989	0.004	
317	394	0.786	0.004	
318	443	0.989	0.005	
319	384	0.991	0.002	
320	325	0.988	0.003	
320 321	395 225	0.988 0.993	0.003 0.001	
320 321 322	322 395 225	0.988 0.993 0.988	0.003 0.001 0.004	Accel Test II, spokes once
320 321 322 323	340 322 325 225	0.988 0.993 0.988	0.003 0.001 0.004 0.003	Accel Test II, spokes once
320 321 322 323 323	332 362 333 390 340	0.988 0.993 0.988 0.991 0.988	0.003 0.004 0.003 0.003	Accel Test II, spokes once
320 321 322 323 324 325	332 362 333 390 340 398	0.988 0.993 0.988 0.991 0.988 0.986	0.003 0.001 0.004 0.003 0.003 0.004	Accel Test II, spakes once
320 321 322 323 324 325 326	332 362 333 390 340 398 367	0.989 0.988 0.988 0.988 0.988 0.988 0.988	0.003 0.001 0.004 0.003 0.003 0.004 0.002	Accel Test II, spokes once
320 321 322 323 324 325 326 326 327	332 362 333 390 340 398 367 327	0.988 0.973 0.978 0.978 0.989 0.989 0.989	0.003 0.001 0.004 0.003 0.003 0.004 0.002 0.004	Accel Test II, spokes once
320 321 322 323 324 325 326 327 328	332 342 333 390 340 398 347 337 401	0.988 0.993 0.988 0.991 0.988 0.988 0.989 0.988 0.988	0.003 0.001 0.004 0.003 0.003 0.004 0.002 0.004 0.004	Accel Test II, spakes once
320 321 322 323 324 325 326 327 328 329	332 362 333 390 340 398 367 337 401 381	0.988 0.993 0.988 0.988 0.988 0.988 0.989 0.988 0.988 0.988	0.003 0.001 0.004 0.003 0.003 0.004 0.002 0.004 0.004 0.004	Accel Test II, spokes once
320 321 322 323 324 325 326 327 328 329 330	332 342 333 390 340 398 367 337 401 381 448	0.988 0.973 0.988 0.988 0.988 0.988 0.989 0.988 0.988 0.988 0.988	0.003 0.001 0.004 0.003 0.003 0.004 0.002 0.004 0.004 0.005 0.004	Accel Test II, spokes once
320 321 322 323 324 325 324 325 326 327 328 329 330 331	332 342 333 390 340 398 347 337 401 381 448 450	0.988 0.993 0.988 0.989 0.988 0.988 0.988 0.988 0.988 0.988 0.988	0.003 0.001 0.004 0.003 0.004 0.004 0.002 0.004 0.004 0.005 0.005 0.004	Accel Test II, spokes once
320 321 322 323 324 325 324 327 328 329 330 331 332	332 342 333 390 340 398 347 337 401 381 448 450 448	0.988 0.993 0.988 0.989 0.988 0.988 0.989 0.988 0.987 0.988 0.987 0.988 0.9972 0.991 0.99	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.004 0.004 0.003 0.004 0.003 0.003	Accel Test II, spokes once
320 321 322 323 324 325 324 327 328 329 330 331 332 332 332	332 342 333 390 340 398 347 337 401 381 448 448 458	0.988 0.993 0.988 0.991 0.988 0.989 0.988 0.989 0.988 0.989 0.988 0.992 0.992 0.993	0.003 0.001 0.004 0.003 0.004 0.004 0.004 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003	Accel Test II, spakes once
320 321 322 323 324 325 324 325 326 327 328 329 330 331 332 331 332 334	332 342 333 390 340 398 347 337 401 381 448 450 448 458 440	0.988 0.993 0.988 0.988 0.988 0.989 0.988 0.989 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.989 0.992	0.003 0.001 0.004 0.003 0.004 0.002 0.004 0.004 0.004 0.004 0.005 0.004 0.005 0.004 0.005 0.003 0.002 Sonv 121-120-K1 0.002 Sonv 121-120-61	Accel Test II, spokes once
320 321 322 323 324 325 326 327 328 329 330 331 332 534 335	332 342 333 390 340 398 347 337 401 381 448 458 448 458 448 458	0.988 0.983 0.988 0.988 0.988 0.988 0.989 0.989 0.989 0.989 0.989 0.999 0.999 0.999 0.993	0.003 0.001 0.004 0.003 0.004 0.002 0.004 0.004 0.005 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.004 0.004 0.002 0.004 0.002 0.004 0.002 0.004 0.002 0.004 0.002 0.004 0.002 0.004 0.002 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.003 0.003 0.004 0.003	Accel Test II, spokes once
320 321 322 323 324 325 324 327 328 327 328 327 328 329 330 331 332 333 333 333 334	332 342 333 390 340 398 367 337 401 381 448 450 468 458 458 459 139	0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.987 0.998 0.992 0.992 0.993 0.992 0.993	0.003 0.001 0.004 0.003 0.004 0.002 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.002 0.004 0.004 0.003 0.003 0.004 0.003	Accel Test II, spokes once
320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 333 334 333	332 362 333 390 340 398 367 337 401 381 448 458 468 458 460 459 139 361	0.988 0.993 0.993 0.968 0.969 0.968 0.989 0.988 0.987 0.998 0.997 0.991 0.993 0.993 0.993 0.993 0.993	0.003 0.001 0.004 0.003 0.004 0.002 0.004 0.002 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.003 0.003 0.002 Senv 121-120-81 0.004 Senv 121-120-81 0.004 Senv 121-120-81 0.004 Senv 121-120-81	Accel Test II, spokes once
320 321 322 323 324 325 326 329 330 332 332 333 334 335 335 334 335 335 336	332 362 333 390 398 367 337 401 381 448 450 468 458 458 459 159 361 320	0.988 0.973 0.988 0.991 0.988 0.988 0.988 0.988 0.988 0.988 0.992 0.993 0.993 0.993 0.993 0.993 0.999	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.004 0.003 0.004 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.004	Accel Test II, spakes once
320 321 322 323 324 325 326 327 328 329 330 331 332 333 333 333 333 335 335 337 338 339	332 362 333 390 340 398 367 337 401 488 450 468 458 458 459 139 361 320 461	0.988 0.971 0.988 0.971 0.986 0.986 0.989 0.989 0.982 0.991 0.993 0.993 0.993 0.993 0.993 0.993 0.993	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.004 0.004 0.004 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.002 Sany 121-120-51 0.004 Sany 121-120-51 0.004 Sany 119-120-51	Accel Test II, spokes once
320 321 322 323 324 325 326 327 328 329 320 328 329 330 331 332 333 334 335 336 337 338 339 340	332 362 333 390 398 367 337 401 381 448 459 459 139 139 361 320 461 354	0.988 0.971 0.988 0.991 0.988 0.989 0.988 0.987 0.988 0.987 0.998 0.991 0.993 0.997 0.993 0.999 0.999 0.999 0.999 0.999	0.003 0.001 0.004 0.003 0.004 0.002 0.004 0.002 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.004 0.004 0.004 0.005 0.005 0.004 0.005 0.005 0.005 0.005 0.004 0.005 0.005 0.004 0.005 0.	Accel Test II, spokes once
320 321 322 323 324 325 324 325 324 327 328 330 331 333 334 335 335 338 339 340 341	332 362 333 390 398 367 337 401 387 401 387 468 450 468 450 468 450 459 361 357 361 359 361 320 461 320 461 333	0.988 0.988 0.988 0.988 0.988 0.986 0.986 0.986 0.987 0.987 0.991 0.991 0.992 0.991 0.991 0.991 0.991 0.991	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.005 0.004 0.003 0.002 0.004 0.003 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.004 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.004 0.005 0.004 0.004 0.004 0.004 0.004 0.005 0.002 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.005 0.001 11:21:20=11 0.004 0.005 0.001 11:9:120=11 0.005 0.001 11:9:120=11 0.005 0.001 10:9:120=11 0.005 0.001 10:9:120=11 0.005 0.001 10:9:120=11 0.004 0.005 0.001 10:9:120=11 0.005 0.001 10:9:120=11 0.005 0.001 10:9:120=11 0.005 0.005 0.005 0.05	Accel Test II, spokes once
320 321 322 323 324 325 324 325 326 327 328 329 330 331 332 334 335 334 337 338 337 338 337 336 337 338 337 336 337 336 337 336 337 336 337 336 337 336 337 336 337 337	332 362 333 390 398 367 337 401 381 448 458 460 459 361 320 461 354 453 363 364	0.988 0.988 0.988 0.988 0.988 0.986 0.988 0.988 0.988 0.988 0.988 0.997 0.998 0.997 0.993 0.997 0.999 0.999 0.999 0.999 0.999 0.999 0.999	0.003 0.001 0.004 0.003 0.004 0.002 0.004 0.002 0.004 0.004 0.005 0.004 0.005 0.004 0.005 0.003 0.002 Sany 121-120-11 0.004 Sany 121-120-11 0.004 Sany 121-120-11 0.004 Sany 121-120-11 0.004 Sany 119-120-11 0.005 Sany 119-120-11 0.005 Sany 119-120-11 0.005 Sany 104-120-R1 0.005 Sany 104-120-R1 0.005 Sany 104-120-P1	Accel Test II, spokes once
320 321 322 323 324 325 324 327 328 327 328 327 328 333 333 333 333 334 337 338 337 338 337 338 337 338 337 340 341 342 343 344 345 346 347 347 348 347 347 348 347 348 347 348 347 347 348 347 348 347 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 347 348 347 348 347 348 347 347 348 347 347 347 348 347 347 347 347 347 347 347 347	332 342 343 340 340 340 340 340 340 340 340 340	0.988 0.988 0.971 0.988 0.991 0.988 0.989 0.989 0.992 0.991 0.993 0.993 0.991 0.991 0.991 0.991 0.991 0.992	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.005 0.004 0.005 0.	Accel Test II, spokes once
320 321 322 323 324 325 324 325 327 328 327 328 327 330 331 332 333 333 334 335 337 338 337 338 337 338 337 338 337 338 341 344	332 342 343 340 378 340 378 347 337 401 381 448 448 448 448 448 448 459 139 139 139 361 324 324 324 324 324 324 324 324 324 324	0.988 0.971 0.9788 0.971 0.9788 0.986 0.987 0.988 0.988 0.988 0.988 0.988 0.997 0.991 0.993 0.993 0.993 0.999 0.991 0.991 0.991 0.991	0.003 0.001 0.004 0.003 0.003 0.004 0.002 0.004 0.004 0.004 0.004 0.004 0.003 0.004 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.004 0.004 0.003 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.004 0.004 0.004 0.004 0.003 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.003 0.004 0.	Accel Test II, spokes once
320 321 322 323 324 325 324 327 328 327 328 327 328 327 328 332 332 333 333 333 333 333 333 334 341 342 343 345	332 342 343 340 378 367 337 401 381 448 458 458 458 459 159 159 159 159 461 354 433 354 433 354 433 351 314	0.988 0.973 0.768 0.968 0.968 0.968 0.968 0.968 0.968 0.972 0.973 0.973 0.973 0.973 0.973 0.973 0.9791 0.9791 0.9791 0.9791	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.003 0.004 0.004 0.003 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.004 0.004 0.003 0.004 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.003 0.004 0.004 0.003 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.005 0.004 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.005 0.004 0.005 0.004 0.005 0.005 0.004 0.005 0.005 0.007 0.004 0.005 0.007 0.004 0.005 0.007 0.004 0.005 0.007 0.004 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.001 0.005 0.007 0.007 0.005 0.007 0.	Accel Test II, spokes once
320 322 323 324 325 324 325 324 327 328 329 330 332 333 333 334 335 334 337 338 339 340 345 346	332 342 343 340 340 347 337 401 381 448 459 381 448 459 361 354 468 459 361 354 354 354 354 351 319 317	0.988 0.971 0.9788 0.971 0.986 0.986 0.988 0.988 0.988 0.988 0.9972 0.991 0.993 0.993 0.999 0.999 0.991 0.991 0.991 0.991 0.991	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.004 0.004 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.004 0.003 0.003 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.004 0.005 0.004 0.004 0.005 0.004 0.004 0.004 0.005 0.004 0.005 0.001 0.005 0.	Accel Test II, spokes once
320 321 322 323 324 325 324 327 328 327 328 327 328 332 332 333 333 333 333 333 333 333	332 342 343 340 340 347 337 347 347 347 347 347 347 347 354 459 354 459 354 459 354 459 354 459 354 433 354 433 354 433 354 433 354 433 354 314 434 354 354 354 354 354 354 354 354 35	0.988 0.972 0.972 0.973 0.988 0.988 0.988 0.988 0.988 0.997 0.993 0.997 0.993 0.997 0.9992 0.9992 0.9	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.004 0.004 0.003 0.003 0.003 0.003 0.003 0.004 0.004 0.004 0.004 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.	Accel Test II, spokes once
320 322 323 324 325 324 325 326 327 328 329 330 332 333 334 335 334 335 336 337 349 340 341 345 344 345 346	332 342 333 370 340 398 387 337 401 381 448 450 468 450 468 450 468 450 468 450 468 450 457 361 321 321 321 321 321 321 321 321 321 32	0.988 0.971 0.988 0.971 0.988 0.988 0.988 0.988 0.988 0.988 0.988 0.992 0.991 0.993 0.991 0.991 0.992 0.991 0.992 0.991 0.992 0.991 0.992 0.991 0.992 0.991 0.992 0.991	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.004 0.005 0.004 0.005 0.004 0.003 0.003 0.002 0.004 0.004 0.005 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.005 0.004 0.005 0.	Accel Test II, spokes once
320 321 322 323 324 325 324 327 328 327 328 327 328 327 332 332 332 333 333 333 333 333 334 335 337 338 344 344 345 344 349	332 342 343 340 378 340 378 347 337 401 381 448 448 448 448 448 448 448 448 459 139 139 131 354 354 354 354 354 354 354 354 354 354	0.988 0.971 0.9788 0.971 0.9788 0.988 0.988 0.988 0.988 0.988 0.997 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.004 0.004 0.004 0.004 0.003 0.004 0.003 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.003 0.002 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.005 0.001 119-120-11 0.004 0.005 0.001 119-120-11 0.005 0.001 119-120-11 0.005 0.001 0.004-120-11 0.005 0.001 0.005 0.001 0.004 0.005 0.001 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.004 0.004 0.003 0.004 0.005 0.001 0.004 0.005 0.001 0.004 0.005 0.001 0.004 0.004 0.005 0.007 0.004 0.005 0.007 0.004 0.005 0.007 0.004 0.005 0.007 0	Accel Test II, spokes once
320 322 323 324 325 324 325 327 328 329 330 332 332 332 332 332 332 333 334 335 344 345 344 349 340 340 349 340	332 342 333 340 347 337 337 337 337 347 347 347 347 457 457 457 457 457	0.988 0.971 0.9788 0.971 0.9788 0.988 0.988 0.972 0.973 0.973 0.973 0.97910 0.979100 0.97910000000000000000000000000000000000	0.003 0.001 0.001 0.003 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.003 0.004 0.004 0.003 0.004 0.004 0.003 0.004 0.004 0.003 0.004 0.	Accel Test II, spokes once
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320 321 322 323 324 325 324 325 327 328 329 330 331 332 333 334 335 334 335 334 349 340 341 342 344 345 346 347 351 352 353 354 355 355 355 356 357 359 356 357 358 359 356 357 358 358 357 358 358 358 357 358 358 358 358 358 358 358 358	332 342 343 340 340 340 347 337 401 381 448 459 381 448 440 459 361 324 341 324 341 324 343 343 343 343 347 317 447 447 447 447 447 447 346 351 324 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 348 347 347 347 347 347 347 347 347 347 347	0.988 0.971 0.9788 0.971 0.9788 0.988 0.988 0.988 0.988 0.972 0.992 0.992 0.997 0.997 0.997 0.997 0.997 0.991 0.991 0.991 0.998 0.997 0.991 0.998 0.997 0.998 0.997 0.997 0.998 0.997 0.997 0.998 0.997 0.997 0.998 0.997 0.998 0.997 0.997 0.997 0.998 0.997 0.998 0.997 0.998 0.997 0.998 0.997 0.997 0.997 0.998 0.997 0.99	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.002 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.004 0.004 0.003 0.	Accel Test II, spokes once
320 322 323 324 325 324 325 327 328 329 330 332 332 333 332 334 337 338 339 341 342 343 344 349 341 349 341 353 351 353 353 355 357 359 340 341 357 357 357 357 357 357 357 357 357 357	332 342 333 340 347 337 40 347 337 40 347 337 450 458 458 450 458 450 459 351 320 461 350 461 351 319 321 457 457 457 457 457 457 351 350 345 351 350 345 351 350 351 350 350 351 350 350 350 350 350 350 350 350 350 350	0.988 0.971 0.978 0.978 0.978 0.988 0.988 0.988 0.988 0.972 0.973 0.973 0.971 0.973 0.971 0.973 0.971 0.973 0.971 0.973 0.971 0.971 0.973 0.971 0.973 0.9710	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.002 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.003 0.004 0.003 0.004 0.004 0.004 0.004 0.004 0.004 0.005 0.001 11:20-11 0.005 0.005 0.007 10:120-11 0.005 0.007 0.001 0.005 0.007 10:120-11 0.005 0.007	Accel Test II, spokes once
320 321 322 323 324 325 327 328 329 330 332 333 334 335 334 337 338 334 344 345 344 349 344 345 344 345 355 356 357 356 356 357 356 356 356 357 356 356 357 356 356 356 356 356 356 356 356	332 342 343 340 340 347 337 401 381 448 458 448 448 448 448 448 448 459 341 324 347 341 325 319 317 442 347 348 347 348 347 351 351 352 348 348 348 348 348 348 348 348 348 348	0.988 0.971 0.978 0.971 0.978 0.988 0.988 0.988 0.988 0.972 0.988 0.972 0.978 0.972 0.978 0.97910 0.979 0.979100 0.97910000000000000000000000000000000000	0.003 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.005 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.003 0.002 0.003 0.003 0.003 0.003 0.003 0.004 1.120-11 0.005 0.005 0.001 0.001	Accel Test II, spokes once
320 322 323 324 325 324 325 327 327 328 327 327 327 327 327 327 327 327 327 327	332 342 333 340 348 347 337 347 347 347 348 448 458 440 459 139 341 459 351 320 461 320 461 459 351 320 461 459 351 314 351 351 351 351 350 351 351 351 351 351 351 351 351 351 351	0.988 0.973 0.9788 0.9788 0.968 0.968 0.968 0.968 0.972 0.9788 0.972 0.973 0.972 0.973 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.973 0.971 0.973 0.973 0.973 0.973 0.979 0.973 0.979 0.971 0.974 0.973 0.975 0.973 0.9790 0.979 0.97900 0.97900 0.97900 0.9790000000000	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004 0.003 0.002 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004 0.003 0.002 0.003 0.003 0.004 0.003 0.003 0.003 0.003 0.004 0.003 0.003 0.003 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 118-120-81 0.003 0.004 0.003 0.001 118-120-81 0.003 0.004 0.003 0.001 0.004 0.003 0.001 0.004 0.003 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.004 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.004 0.001 0.003 0.001 0.004 0.003 0.001 0.004 0.003 0.001 0.004 0.003 0.001 0.004 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.002 0.001 0.005 0.001 0.002 0.001 0.005 0.001	Accel Test II, spokes once
320 322 323 324 325 324 325 327 328 329 330 331 332 334 335 334 335 341 349 349 341 349 349 349 341 353 354 355 355 355 356 357 359 350 351 355 355 356 357 356 357 356 357 356 357 356 357 356 357 356 357 357 356 357 357 357 357 357 357 357 357	332 342 343 340 340 340 347 357 401 381 448 450 468 450 459 361 351 350 361 351 319 361 351 319 361 351 319 361 351 319 361 352 363 363 359 356 353 359 356 353 356 353 356 355 356 355 356 355 356 355 356 355 356 355 356 355 356 355 356 355 356 355 356 355 356 355 356 355 356 356	0.988 0.971 0.988 0.971 0.988 0.988 0.988 0.988 0.988 0.997 0.988 0.997 0.998 0.997 0.993 0.997 0.993 0.997	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.002 0.004 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.003 0.002 0.004 0.003 0.002 0.003 0.002 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.005 0.003 0.004 0.003 0.005 0.	Accel Test JJ, spokes once transferred from reel 318 which was broken
320 321 322 323 324 325 327 328 329 340 344 345 327 328 329 329 340 351 327 328 329 340 351 327 328 329 340 351 352 353 356 357 358 357 358 357 358 356 357 358 356 357 358 356 357 358 356 357 358 356 356 357 358 356 356 356 356 356 356 356 356	332 342 343 340 340 347 337 347 337 347 347 347 347 347 351 314 351 314 351 314 351 314 351 314 351 314 351 351 351 354 353 355 355 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 356 357 357 357 357 357 357 357 357 357 357	0.988 0.975 0.9788 0.9788 0.988 0.988 0.988 0.988 0.988 0.988 0.998 0.9988 0.997 0.998 0.997 0.9	0.003 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.004 0.003 0.004 0.003 0.004 119-120-11 0.005 0.003 0.001 0.005 0.001 0.005 0.001 0.005 0.003 0.001 0.005 0.005 0.005 0.00	Accel Test II, spokes once transferred from reel 318 which was broken
320 322 323 324 325 324 325 327 328 329 330 331 332 334 337 336 337 338 334 337 348 349 340 341 348 349 341 348 349 341 353 354 353 354 353 354 353 354 355 355	332 332 332 340 340 347 337 401 381 448 450 320 321 321 321 321 321 321 321 3251 3251 3251 3251 3251 3250 345 3253 345 3253 345 3253 345 3253 345 3253 345 3253 345 3253 3350 3350 3350 345 3253 3350 3350 345 3253 3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 3350 3360 3350 3360 3350 3360 360 360 360 36	0.988 0.971 0.988 0.971 0.988 0.988 0.988 0.988 0.972 0.988 0.972 0.973 0.973 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.971 0.973 0.971 0.973 0.971 0.979 0.971 0.979 0.971 0.979 0.971 0.979 0.971 0.979 0.971 0.975 0.971 0.975 0.971 0.975	0.003 0.001 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.003 0.003 0.003 0.004 0.003	Accel Test II, spokes once transferred from rebl 318 which war broken
320 322 323 324 325 327 328 329 330 332 333 334 335 337 338 336 337 338 344 343 344 344 344 344 344	332 342 343 340 340 340 347 337 401 381 448 448 448 448 448 448 448 448 448 4	0.988 0.971 0.978 0.978 0.978 0.988 0.988 0.988 0.972 0.988 0.972 0.988 0.972 0.978 0.9790 0.979 0.9790	0.003 0.004 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.005 0.004 0.005 0.004 0.005 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.004 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.004 0.003 0.004 1.1:20-11 0.005 0.005 0.001 0.005 0.005	Accel Test II, spokes once transferred from rebl 318 which was broken

370	441	0.989	0.003 Sany 118-120-01	
371	451	0.989	0.004 Sony 118-120-F1	
372	415	Corning	Sony 103-120-01	
373	2	Corning	Sony 103-120-01	
3/4		Corning	Sony 103-120-F1	
376	10	Corning	Sony 118-120-E1	
377	27	Corning	Sony 124-120-C1	
378	17	Corning	Sony 124-120-11	
379	19	Corning	Sony 103-120-M1	hadly anothered siles diget upp
380	Z0	Corning	500y 107-120-01 500y 103-120-61	Badly Scattered after Stret de
381	22	Corning	Seev 103-120-61	
383	14	Corning	Sany 107-120-L1	
384	15	Corning	Sony 107-120-F1	
385	18	Corning	Sony 115-120-H1	,
386			Sony	
387	395	0.986	0.003 Sony 117-120-71	
200	300	V.700	0 004 Seev 113-120-01	
390	393	0.99	0.002 Sany 117-120-51	
391	26	Corning	Sony 124-120-E1	
392	375	0.99	0.005 Sany 136-114-W1	
393	25	Corning	Sony 107-120-C1	
394	24	Corning	Sony 113-120-51	
393	23	Corning A BRA	0 004 Sony 119-120-11	
397	376	0.994	0.002 Sony 107-120-01	
398	449	0.993	0.002 Sony 109-120-C1	
399	493	0.991	0.003 Sony 116-120-51	
400	487	0.989	0.005 Sony 116-120-U1	
401	492	0.787	0.004 Sany 116-120-V1	
402	474	0.991	0.004 Sony 116-120-41	
403	471	0.980	0.002 Sony 103-120-N1	
405	480	0.992	0.003 Sony 103-120-P1	
406	479		Sony 103-120-U1	
407	482	0.989	0.002 Sony 104-120-L1	
408	483	0.994	0.002 Sony 104-120-D1	
409	485	0.99	0.003 Sony 104-120-KI	
410	486	0.991	0.003 Sony 110-120-01	
411	403	0.987	0.003 Sony 106-120-11	
413	481	0.991	0.002 Sony 106-120-F1	
414	488	0.989	0.005 Sony 106-120-61	
415	372	0.992	0.003 Sony 113-120-N1	
416	407	0.989	0.003 Sony 118-120-01	
417	28	Corning	Sony 118-120-C1	
417	30	Corning	38 54300-8-1-11	
420	536	0.788	0.005 Sany 116-120-C1	
421	558	0.993	0.003 Sony 114-120-11	
422	519	0.992	0.004 Sonv 114-120-E1	was Sony 108-120-C1 and reel 422
423	520	0.994	0.002 Sony 114-120-61	
424	322	0.786	0.004 Sony 114-120-L1	
425	521	0.99	0.004 Sany 116-120-E1	
425	323	0.991	0.003 Sony 117-120-H1	
428	516	0.992	0.003 Sony 117-120-11	
429	515	0.991	0.004 Sony 106-120-C1	
430	542	0.99	0.004 Sony 106-120-E1	
431	\$17	0.987	0.003 Sony 106-120-81	
432	518	0.989	0.005 Sony 106-120-D1	
433	592	0.992	0.004 Sony 136-114-K1	
435	539	0.991	0.003 Sony 134-114-01	
436	543	0.988		
437	534	4	0.003 Sony 136-114-V1	
438		0.991	0.003 Sany 136-114-V1 0.003 Sany 116-120-B1	
	535	0.991 0.989	0.003 Sany 136-114-V1 0.003 Sany 116-120-B1 0.006 Sany 116-120-A1	
439	535 537	0.991 0.989 0.99	0.003 Sany 136-114-V1 0.003 Sany 116-120-B1 0.006 Sany 116-120-A1 0.005 Sany 117-120-01	
439	535 537 555	0.991 0.989 0.99 0.989	0.003 Sony 136-114-V1 0.003 Sony 116-120-81 0.006 Sony 116-120-81 0.005 Sony 117-120-81 0.003 Sony 117-120-81 0.003 Sony 119-120-81	
439 440 441 442	535 537 555 564	0.991 0.989 0.99 0.989 0.989 0.999	0.003 Sony 136-114-V1 0.003 Sony 116-120-81 0.006 Sony 116-120-81 0.003 Sony 116-120-81 0.003 Sony 119-120-81 0.004 Sony 110-120-81 0.004 Sony 110-120-81	
439 440 441 442 443	333 537 555 564 565 536	0.991 0.989 0.989 0.989 0.999 0.989 0.991	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.006 Sany 116-120-B1 0.003 Sany 116-120-B1 0.003 Sany 117-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.001 Sany 110-120-H1	
439 440 441 442 443 444	335 537 555 364 565 556 557	0.991 0.989 0.989 0.989 0.999 0.989 0.991 0.988	0.003 Sony 134-114-U1 0.003 Sony 116-120-B1 0.006 Sony 116-120-B1 0.003 Sony 117-120-B1 0.003 Sony 117-120-B1 0.003 Sony 110-120-B1 0.004 Sony 110-120-B1 0.004 Sony 110-120-B1 0.004 Sony 110-120-B1	
439 440 441 442 443 444 445	535 537 555 564 565 557 559	0.991 0.989 0.989 0.989 0.999 0.999 0.991 0.988 0.991	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.006 Sany 116-120-B1 0.003 Sany 117-120-B1 0.003 Sany 117-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1	
439 440 441 442 443 444 443 444	535 537 555 544 545 557 557 559 560	0.991 0.989 0.989 0.989 0.989 0.999 0.991 0.986 0.991 0.991	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.005 Sany 110-120-A1 0.003 Sany 110-120-A1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.005 Sany 100-120-H1 0.003 Sany 100-120-H1 0.003 Sany 100-120-H1	
439 440 441 442 443 444 443 444 443 444 443	535 537 555 544 545 557 557 557 559 540 541	0.991 0.989 0.979 0.989 0.979 0.989 0.991 0.988 0.991 0.971 0.988	0.003 Sany 134-114-VI 0.003 Sany 114-120-B1 0.004 Sany 114-120-B1 0.005 Sany 117-120-B1 0.003 Sany 117-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1	
439 440 441 442 443 444 443 444 445 446 447 448 449	535 537 555 564 565 557 559 560 561 562 562	0.991 0.989 0.979 0.989 0.999 0.9991 0.988 0.991 0.988 0.991 0.989 0.991	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.006 Sany 116-120-B1 0.003 Sany 117-120-B1 0.003 Sany 117-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.005 Sany 108-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1	
439 440 441 442 443 444 445 444 445 446 447 448 449 450	535 537 555 564 565 557 559 560 561 562 562 563 554	0.991 0.997 0.989 0.999 0.989 0.989 0.989 0.991 0.988 0.991 0.989 0.991 0.989 0.989	0.003 Sany 134-114-U1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.003 Sany 117-120-G1 0.003 Sany 117-120-G1 0.004 Sany 110-120-K1 0.004 Sany 110-120-K1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.003 Sany 100-120-H1 0.003 Sany 100-120-H1	
439 440 441 442 443 444 445 446 447 448 449 450 451	533 537 555 564 563 557 557 557 560 561 562 563 563 554	0.991 0.989 0.989 0.989 0.989 0.999 0.991 0.988 0.991 0.988 0.991 0.988 0.991 0.987 0.987	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.003 Sany 116-120-B1 0.003 Sany 110-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 100-120-B1 0.003 Sany 100-120-D1 0.003 Sany 100-120-D1 0.004 Sany 110-120-K1 Sany	
439 440 441 442 443 444 443 444 445 446 447 448 449 450 451 452	535 537 555 564 565 557 557 557 560 561 562 563 554	0.991 0.989 0.999 0.989 0.999 0.998 0.998 0.998 0.991 0.998 0.991 0.9991 0.9991 0.9991	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.006 Sany 116-120-B1 0.003 Sany 117-120-B1 0.003 Sany 117-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1 0.004 Sany 119-120-K1 Sany Sany	
439 440 441 442 443 444 445 446 447 448 447 448 450 450 451 452 453	535 537 555 544 565 536 537 559 560 541 562 543 554	0.991 0.989 0.9789 0.989 0.999 0.989 0.989 0.991 0.989 0.991 0.989 0.991 0.989 0.989	0.003 Sany 134-114-U1 0.003 Sany 116-120-B1 0.004 Sany 116-120-A1 0.003 Sany 110-120-A1 0.003 Sany 110-120-A1 0.004 Sany 110-120-A1 0.004 Sany 110-120-A1 0.004 Sany 110-120-A1 0.004 Sany 110-120-A1 0.003 Sany 100-120-A1 0.003 Sany 100-120-A1 0.004 Sany 110-120-A1 0.004 Sany 110-120-A1 0.005 Sany 100-120-A1 0.005 Sany 100-120-A1	
439 440 441 442 443 444 445 444 445 447 448 447 448 447 451 451 452 453 454	535 537 555 564 545 559 560 541 562 543 554 567	0.991 0.989 0.989 0.989 0.989 0.989 0.989 0.988 0.991 0.988 0.991 0.987 0.981	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.005 Sany 110-120-A1 0.003 Sany 110-120-A1 0.004 Sany 110-120-A1 0.004 Sany 110-120-A1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.005 Sany 100-120-H1 0.003 Sany 100-120-H1	Accel Test II; operator error dur
439 440 441 442 443 444 445 444 445 444 447 448 447 450 451 452 453 454 455	335 537 555 564 545 537 559 540 541 542 543 554 542 543 554 354	0.991 0.989 0.999 0.989 0.999 0.989 0.991 0.988 0.991 0.989 0.991 0.989	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.006 Sany 116-120-B1 0.003 Sany 117-120-B1 0.003 Sany 117-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1	Accel Test II; operator error dur
439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 453 453 455 455 455	535 537 535 544 545 557 559 540 541 542 543 543 544 543 544 547 547 547 547 547 547 547 547 547	0.991 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.003 Sany 117-120-01 0.003 Sany 119-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 100-120-B1 0.003 Sany 100-120-B1 0.004 Sany 117-120-K1 Sany Sany Sany Sany Sany Sany Sany Sany	Accel Test II; operator error dur
439 440 441 442 443 444 443 444 447 448 449 450 451 452 453 454 453 454 455 455 456	535 537 555 564 557 557 557 557 557 557 557 552 543 554 543 554 543 554 543 554 543 554 543 554 543 554	0.991 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.991 0.987 0.987 0.987 0.987	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.005 Sany 117-120-A1 0.003 Sany 117-120-A1 0.003 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.003 Sany 109-120-H1 0.003 Sany 109-120-H1 0.003 Sany 109-120-H1 0.003 Sany 108-120-H1 0.003 Sany 108-120-H1 0.003 Sany 108-120-H1 0.003 Sany 108-120-H1 0.004 Sany 119-120-K1 Sany Sany Sany Sany Sany Sany Sany Sany	Accel Test II; operator error dur
439 440 441 442 443 444 445 445 445 447 447 447 447 450 451 452 453 454 455 455 455 455 455 455 455 455	535 537 555 544 545 557 559 560 541 562 559 560 541 562 554 562 554 569 564 562 554 569 354 353 354	0.991 0.989 0.989 0.999 0.999 0.999 0.991 0.989 0.991 0.991 0.991 0.989 0.991 0.989 0.989	0.003 Sany 134-114-U1 0.003 Sany 116-120-B1 0.006 Sany 116-120-B1 0.003 Sany 117-120-B1 0.003 Sany 117-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1	Accel Test II; operator error dur
439 440 441 442 443 444 445 445 445 447 447 447 450 451 452 453 454 455 455 455 455 455 455 455 455	533 535 535 535 536 536 536 537 537 537 539 540 542 543 543 543 543 543 543 543 543 543 543	Corning Corning Corning Corning Corning Corning	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.003 Sany 117-120-01 0.003 Sany 117-120-01 0.003 Sany 110-120-E1 0.004 Sany 110-120-E1 0.004 Sany 110-120-E1 0.004 Sany 110-120-E1 0.003 Sany 100-120-H1 0.003 Sany 100-120-H1 0.004 Sany 113-120-H1 0.004 Sany 113-120-H1 0.005 Sany 100-120-H1 0.005 Sany 100-120-H1	Accel Test II; operator error dur
439 440 441 442 443 444 445 446 447 448 450 451 452 453 454 455 455 455 456 457 458 456 457 458 456 457 458 456 457 458 456 457 456 457 456 457 456 457 456 457 457 457 457 457 457 457 457 457 457	533 537 535 536 536 536 537 539 541 562 563 554 563 554 311 322 33 34 354	0.991 0.989 0.989 0.989 0.989 0.989 0.989 0.988 0.971 0.988 0.971 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989	0.003 Sany 134-114-VI 0.003 Sany 116-120-B1 0.004 Sany 116-120-A1 0.003 Sany 110-120-A1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 100-120-B1 0.003 Sany 100-120-B1 0.004 Sany 100-120-B1 0.005 Sany 100-120-B1	Accel Test II; operator error dur
439 440 441 442 444 445 444 445 444 445 447 448 447 448 450 451 452 453 454 455 455 455 455 456 457 458 459 460 461 463	333 337 355 364 345 359 359 359 359 359 359 350 341 352 354 354 354 354 354 354 354 354 354 354	0.991 0.997 0.989 0.997 0.989 0.997 0.989 0.991 0.989 0.991 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.005 Sany 117-120-B1 0.003 Sany 110-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1	Accel Test II; operator error dur
439 440 442 443 444 445 444 445 444 447 448 450 451 452 453 454 455 455 455 455 455 456 457 458 457 458 459 460 461 462 464	333 337 355 364 365 357 359 360 361 362 362 363 355 355 355 355 355 355 355 355 355	0.991 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.991 0.989 0.991 0.989 0.991 0.991 0.991 0.989 0.991 0.991 0.992 0.991 0.992 0.999	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.005 Sany 117-120-01 0.003 Sany 117-120-01 0.003 Sany 110-120-E1 0.004 Sany 110-120-E1 0.004 Sany 110-120-E1 0.004 Sany 110-120-E1 0.003 Sany 100-120-E1 0.003 Sany 100-120-E1 Sany Sany Sany Sany Sany Sany Sany Sany	Accel Test II; operator error dur
439 440 441 442 443 444 445 444 445 450 451 452 455 455 455 455 455 455 455 455 455	333 337 355 364 365 359 359 360 361 362 354 362 354 354 354 354 354 354 354 354 354 354	Corning Cornin	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.003 Sany 117-120-A1 0.003 Sany 117-120-A1 0.003 Sany 110-120-A1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.003 Sany 100-120-H1 0.003 Sany 100-120-H1 0.002 Sany 100-1-119 0.002 Sany 34300-8-1-14 0.002 Sany 34300-8-1-15 0.002 Sany 34300-8-1-14	Accel Test II; operator error dur
439 440 441 442 444 443 444 445 444 447 444 447 447 447 452 453 454 453 454 453 457 461 462 464 464	333 337 355 364 365 356 359 359 359 359 359 359 359 359 359 359	Corning Cornin	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.005 Sany 117-120-B1 0.003 Sany 119-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 108-120-B1 0.003 Sany 108-120-B1 0.004 Sany 119-120-B1 0.005 Sany 108-120-B1 0.005 Sany 108-120-B1 0.005 Sany 108-120-B1 0.005 Sany 108-120-B1 0.004 Sany 108-120-B1 0.005 Sany 108-120-B1	Accel Test II; operator error dur
439 440 441 442 443 444 443 444 447 448 447 448 447 452 453 452 453 454 452 453 456 457 458 457 458 457 458 457 458 456 457 458 456 457 457 456 457 457 457 457 457 457 457 457 457 457	333 337 335 344 365 357 359 360 361 357 357 357 357 357 357 357 357 357 357	0.991 0.997 0.989 0.997 0.989 0.997 0.989 0.991 0.991 0.989 0.991 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.989 0.992 0.989 0.992 0.993 0.995	0.003 Sany 134-114-U1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.005 Sany 117-120-B1 0.003 Sany 117-120-B1 0.003 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.004 Sany 110-120-B1 0.003 Sany 100-120-B1 0.003 Sany 100-120-B1 300-500 300 Sany 100-120-B1 300 Sany 100-120-B1 0.002 Sany 100-120-B1 0.002 Sany 100-120-B1 0.003 Sany 100-120-11 0.003 Sany 100-10	Accel Test II; operator error dur
439 440 441 442 444 443 444 444 447 444 444 447 450 451 452 453 454 453 454 453 454 454 454 454 454	333 337 355 364 365 359 359 359 360 361 362 354 354 354 354 354 354 354 354 354 354	Corning Cornin	0.003 Sany 134-114-V1 0.003 Sany 116-120-B1 0.004 Sany 116-120-B1 0.004 Sany 116-120-A1 0.003 Sany 110-120-A1 0.003 Sany 110-120-A1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.004 Sany 110-120-H1 0.003 Sany 100-120-H1 0.003 Sany 100-120-H1 0.002 Sany 100-120-H1 0.002 Sh 54300-4-1-10 0.003 Sh 54300-7-1-20 0.003 Sh 54300-7-1-20 0.003 Sh 54300-7-1-10 0.002 Sh 54300-7-1-20 0.003 Sh 54300-7-1-10 0.003 Sh 54300-7-1-20 0.003 Sh 54300-7-1-20	Accel Test II; operator error dur

Test II; operator error during transfer

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475	477	0.993	0.003 3M 54300-6-1-9	
476	478	0.992	0.003 3M 54300-6-1-21	
477	475	0.993	0.003 3N 54300-1-1-17	
478	578	0.989	0.003 3M 54300-1-1-20	
479	526	0.986	0.004 3M 54300-7-1-19	
P P	524	0.99	0.005 3M 54300-3-1-16	
	530	0.987	0.002 3M 54300-7-1-25	Accel Test II
482	531	0.986	0.003 3M 54300-5-1-13	
483	532	0.99	0.003 3M 54300-7-1-3	
484	\$33	0.992	0.003 3M 54300-4-1-16	
485	549	0.987	0.004 3M 54300-1-1-23	
486	550	0.789	0.006 38 54300-8-1-10	
487	551	0.99	0.006 3M 54300-4-1-11	
488	552	0.99	0.003 3M 54300-8-1-17	
487	544	0.991	0.005 3M 54300-4-1-10	
490	553	0.992	0.003 3M 54300-1-1-25	
491	546	0.988	0.006 3M 54300-3-1-17	
492	547	0.993	0.003 3M 54300-3-1-22	
493	548	0.993	0.003 3M 54300-8-1-7	
494	538	0.994	0.002 3M 54300-1-1-5	
495	545	0.989	0.003 3M 54300-5-1-17	
496				
497				
498				
400				