

Key(RT=Remote Terminal)SSR=SSR, C&T card, & Interface Card pwr)BC=Bus Controller)(noSSR=relay switch to SSR, C&T card & Interface Card not thrown)The 1st set given is side A configuration, the 2nd set is side B configuration.								
Test Phase/ Test Date	DOY	Title	S/C Config.	CIDA GSE Dir/file name(s)	Date sent	edf_file_parser results	Comments	CIDA Team Analysis
SPT 12/16/01	350	SPT Dry Run(pwr up)	Side A					
SPT 12/17/01	351	SPT Day 1(pwr up, func)	Side A	2001.12.17/20h19m46s.gz & 21h18m56s.gz	1/8-9/02	4674 edfs created from 12.17:20:26:14 to 12.18:03:15:19 24571.4sec. Agrees with CIDA commanding. Extra packets at end.	Data at end of 20h19m46s.gz file was tagged with year 1981(1970). Front end causing dropped packets.	1/10/02 - Missing bytes
SPT 12/19/01	353	SPT Day 3(pwr up, enc)	Side A	2001.12.17/20h19m46s.gz	1/8-9/02	Data is in the incorrectly tagged edfs?	Suspect that the data after 12.18:03:15:19 represents this test set. Check for record times	1/10/02 - Missing bytes
SPT 12/20/01	354	SPT Day 4(pwr up, func)	Side B	2001.12.17/20h19m46s.gz	1/8-9/02	Data is in the incorrectly tagged edfs?	Suspect that the data after 12.18:03:15:19 represents this test set. Check for record times	1/10/02 - Missing bytes
SPT 12/21/01	355	SPT Day 5(rerun of parts of Day 1)	Side A	2001.12.17/20h19m46s.gz	1/8-9/02	Data is in the incorrectly tagged edfs?	Suspect that the data after 12.18:03:15:19 represents this test set. Check for record times	1/10/02 - Missing bytes
1/9/2002	9	rerun SPT Day 3(pwr up, enc)	BC/SSR noRT/noSSR baseband	2002.01.10/13h33m34s.gz	1/10/2002	All data was incorrectly time tagged with 1981(1970).05.14 and in reverse order. 3303.8sec	Time Tag problem. SSR started 800sec before CA. Limited data set.	1/10/02 - Missing data and sync
Vibration 1/15/02	15	CIDA PwrUp EEPROM & Functional Test	BC/SSR noRT/noSSR RF	2002.01.16/14h12m34s.gz	1/16/2002	1175 edfs created from 01.15:23:33:11 to 01.16:01:24:43. 6715.1sec Agrees with CIDA commanding.	CIDA On alone. Fix to front end and LabView process. Corrected "drop packet"and bit sync problems.	1/18/02 - Good data
Vibration 1/17/02	17	CIDA PwrUp EEPROM & Functional Test	BC/SSR noRT/noSSR RF	2002.01.17/21h45m14s.gz	1/17/2002	308 edfs created from 01.017:17:29:32 to 01.017:18:07:31 2301.1sec Agrees with CIDA commanding	NGIMS, CIDA On.	1/18/02 - Good data
Vibration 1/17/02	17	CIDA PwrUp EEPROM & Functional Test	noRT/noSSR BC/SSR baseband	2002.01.18/14h59m49s.gz	1/18/2002	Could not be parsed. Should have been data from 01.17:21:59 to 01.17:22:28	NGIMS, CIDA On. Received +8000 packets immediately.	behavior. PFR CCID 001 - Closed. Pwr Up procedure modified. Prob. Stems from hardware highspeed interface.
Vibration 1/21/02	21	CIDA PwrUp EEPROM & Functional Tst	BC/SSR noRT/noSSR RF	2002.01.21/21h36m29s.gz & apid_0500_20020211900.out3	1/21/02 & 5/3/02	251 edfs created from 01.21:16:02:37 to 01.21:16:35:40 2004.6sec Agrees with CIDA commanding	IEM1 expects IEM2 as RT. CIDA On alone.	Andreas 5/6/02: 0.8% bad/expected, 250/2 good/bad, 0 damaged, 2 checksum errors, 4 repeated, 0 missed.
Vibration 1/21/02	21	CIDA PwrUp EEPROM & Functional Tst	noRT/noSSR BC/SSR RF	2002.01.22/18h05m03s.gz & apid_0500_20020220030.out3	1/22/02 & 5/3/02	273 edfs created from 01.21:23:44:27 to 01.22:00:39:53 2126.6sec Agrees with CIDA commanding	IEM2 expects IEM1 as RT. NGIMS, CIDA On. Tried a new SSR record set up	Andreas 5/6/02: 2.2 % bad/expected, 272/6 good/bad, 0 damaged, 2 checksum errors, 4 repeated, 0 missed.
Vibration 1/23/02	23	CIDA PwrUp EEPROM & Functional Tst	BC/SSR noRT/noSSR baseband	2002.01.23/14h46m28s.gz & apid_0500_20020231400.out3	1/24/02 & 5/3/02	193 edfs created from 01.23:13:54:15 to 01.23:14:22:37 1723.7s Agrees with CIDA commanding	IEM1 expects IEM2 as RT. CIDA On alone.	Andreas 5/6/02: No recognizable CIDA data.
Vibration 1/23/02	23	CIDA PwrUp EEPROM & Functional Tst	on-dis/SSR-dis BC/SSR baseband	2002.01.24/16h49m03s.gz & apid_0500_20020240200.out3	1/24/02 & 5/3/02	Could not be parsed. Should have been data from 01.23:20:30:00 to 01.23:21:04:00	IEM1 & SSR1 pwr'd but disabled, IEM2 not config for RT TM. NGIMS, CIDA On. Received +8000 packets immediately.	Andreas 5/6/02: No recognizable CIDA data.
Acoustics 1/31/02	31	CIDA PwrUp EEPROM & Functional (updated)	BC/SSR noRT/noSSR baseband	2002.01.35/15h10m35s.gz	2/1/2002	245 edfs created from 01.31:00:00:56 to 01.31:00:36:05 2135.9sec Agrees with CIDA commanding	CIDA On alone.	Data looks good. Additional wait after power up is sufficient. Modified Functional cleared for use.
Acoustics 1/31/02	31	CIDA PwrUp EEPROM & Functional Tst	BC/SSR noRT/noSSR baseband	2002.02.01/13h34m10s.gz	2/1/2002	244 edfs created from 01.31:16:23:54 to 01.31:17:00:16 2203.8s Agrees with CIDA commanding	NGIMS, CRISP, CIDA On. Unmodified functional ran - archive problems prevented timely analysis of 1st data set	
Acoustics 1/31/02	31	CIDA PwrUp EEPROM & Functional Tst	noRT/noSSR BC/SSR baseband	2002.02.01/14h07m41s.gz	2/1/2002	255 edfs created from 01.31:19:20:56 to 01.31:19:54:33 2250.7s Agrees with CIDA commanding	CIDA On alone. New power up procedure run on Side B to take care of oscillations. Tried "normal" power up procedure after test and got +8000 packets immediately.	Data looks good. New power up procedure good.

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Acoustics 2/2/02	33	CIDA PwrUp flash mem	BC/SSR noRT/noSSR baseband	2002.02.02/20h28m33s.gz	2/2/2002	13 edfs created from 1980.01.01:01:28:10 to 1980.01.01:01:40:42 774.2sec. On time agrees with CIDA commanding.	CIDA On alone. Using Side A pwrup after load proc. Received a CIDA_XFER_FAIL alarm. 41 packets written to the recorder. CIDA GSE notes load from EEPROM.	Software loaded to segment 0. Boot from s/w flash memory did not work.
Acoustics 2/2/02	33	CIDA PwrUp flash mem	noRT/noSSR BC/SSR baseband	2002.02.02/2002020221h17m18s.gz	2/4/2002	5 edfs created from 1980.01.01:00:41:27 to 00:45:28.	CIDA On alone. Using Side B pwrup after load proc. First try the pwrup proc had a bug. 2nd pwrup looked good. No tlm alarms. 38 packets written to recorder.	Software loaded to segment 0. Missing a few EDFs at beginning. CIDA started from s/w load! Ver. 8F.
Acoustics 2/4/02	35	CIDA PwrUp flash mem.	BC/SSR noRT/noSSR baseband	2002.02.04/2002020420h53m47s.gz	2/4/2002	6 edfs created from 2002.02.04:19:23:38 to 19:29:10. On time agrees with CIDA commanding.	CIDA On alone. Using Side A pwrup after load proc. Increased Wait to 5 sec btw pwr on and s/w source cmd. Received a CIDA_XFER_FAIL alarm. CIDA_TOT_PKT_CNT 39	Need to increase time to at least 15 sec between power up and s/w source command.
Acoustics 2/4/02	35	CIDA PwrUp flash mem.	BC/SSR noRT/noSSR baseband	2002.02.04/2002020421h07m08s.gz	2/4/2002	File produced very small.	CIDA On alone. Using Side B pwrup after load proc(with changes for bringing up side A). Received a CIDA_XFER_FAIL alarm. CIDA_TOT_PKT_CNT 0	
Acoustics 2/5/02	36	CIDA PwrUp flash mem.	BC/SSR RT/SSR-dis baseband	2002.02.05/2002020521h37m23s.gz	2/5/2002	8 edfs created 2002.02.05:21:06:25 to 21:13:57. On time agrees with cmdng. Parser indicates load from flash memory.	SSR2 pwr'd but disabled. CIDA On alone. Modified Side A power up after load proc to increase wait time to 15 sec. 38 packets recorded.	Load successful from flash. CIDA ready for commands earlier than expected and 1st 2 EDFs missing. PFR CSC 031
Acoustics 2/6/02	37	CIDA PwrUp flash mem, updated functional.	BC/SSR noRT/noSSR baseband	2002.02.07/2002020613h36m37s.gz	2/7/2002	243 edfs (start w/edf 3). 2002.02.06:23:43 to 2002.02.07:00:16:14. On time agrees w/cmdng. Parser indicates load from flash.	CIDA On alone. Modified power up flash mem load proc to streamline commanding. Wait time is 15 sec. 39 packets recorded from pwr up, 692 total.	
Acoustics 2/7/02	38	CIDA PwrUp flash mem.	noRT/noSSR BC/SSR baseband	2002.02.07/2002020716h02s32s.gz	2/7/2002	5 edfs (start w/edf 3) 2002.02.07:14:16:02 to 14:20:01. On time agrees w/cmdng. Parser indicates load from flash.	CIDA On alone. Modified power up flash mem load proc to streamline commanding. Wait time is 15 sec. 39 packets recorded from pwr up.	
Acoustics 2/8/02	39	CIDA PwrUp flash mem, updated functional.	noRT/noSSR BC/SSR RF	2002.02.11/2002020814h07m15s.gz	2/11/2002	243 edfs (start w/edf 3). 2002.02.08:18:51 to 2002.02.08:19:24. On time agrees w/cmdng. Parser indicates load from flash.	NGIMS, CFI, CIDA On. Power Up has a 15sec wait before commanded to load from flash memory. Updated functional ran.	PFR CSC 031 Side A and Side B come up slightly different. Wait time increased to 15sec to handle both sides. Missing 1st 2 EDFs may be due to 15sec wait. Also CIDA is ready to accept commands sooner than expected. Andreas 4/15/02: Problems can be tolerated.
3/1/2002	60	CIDA software load - version 16	Side A & B				File cidacode.fsg. Loaded software to segment 1 (0x10000).	Jouni 4/19/02: s/w changes- 1) New memory usage model (arctan) 2) Use only delayed channels in encounter 3) If over model, send only every nth evt, n=1-32, increase n by 1 every 2 seconds.
TV Balance 3/5/02	64	CIDA PwrUp flash mem, functional.	BC/SSR noRT/noSSR baseband	2002.03.05/2002030519h34m40s.gz	3/5/2002	252 edfs (start w/edf3). 2002.03.04.15:36:13 to 2002.03.04.16:09:45. On time agrees w/cmdng. Parser indicates sw 90.Day error?	IEM1 expecting IEM2 RT. NGIMS, CIDA On. Power Up has a 15sec wait before commanded to load from flash memory. Updated functional ran.	Good load on Side A.
TV Balance 3/6/02	65	CIDA PwrUp flash mem, functional.	noRT/noSSR BC/SSR baseband	2002.03.06/2002030622h48m00s.gz & 2002.03.07/2002030613h24m52s.gz & apid_0500_20020651700.out3	3/7/2002	2 edfs (start w/edf3). Day error is present. EDF day is 03/05. Generated file size agrees with generated file on side A.	NGIMS, CIDA On. Power Up has a 15sec wait before commanded to load from flash memory. Updated functional ran. L. Herrera queried archive found 626 pkts; telemetry showed 626 also.	Appears to be a good s/w load on Side B. Andreas, please compare this data set to the others on side B to determine if problems are only seen on side B and not side A.

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TV Balance 3/7/02	66	CIDA PwrUp flash mem, uncompressed functional.	noRT/SSR BC/SSR baseband	2002.03.07/2002030721h45m15s.gz & apid_0500_20020662000.out3	3/7/2002	2 edfs (start w/edf3). Day error is present. EDF day is 03/06.	CIDA On alone. Power Up has a 15sec wait before commanded to load from flash memory. Functional - no compression ran.	Andreas: Random data, erroneous bytes, false s/c pkts. Jouni suggested running same procedure on side A to get referenc image. Jouni 4/29/02: 10*234 bytes missing - actually corrupted. The # of bytes is correct but the content is not. CIDA data replaced with other s/c data? Harlan 4/30/02: Discontinuities in data seem to start coincident with the beginning of an EDF. Also mapped to s/c request for CIDA pkts every 100ms.
TV Balance 3/11/02	70	CIDA PwrUp flash mem, uncompressed functional.	BC/SSR RT/SSR RF	2002.03.11/2002031122h13m37s.gz & apid_0500_20020701800.out3	3/11/02 & 5/2/02	252 edfs (start w/edf3). Data tagged with 1980.01.04 2002.03.04.due to s/c MET.On time agrees w/cmdng. CIDA not pwr'd off until after SPTEnc	NGIMS, CIDA On but NGIMS TM Off, CFI & CRISP On but in low pwr mode. Pwr Up has a 15sec wait before load from flash memory.	Andreas GSE file: 1.2% bad/expected, 249/1 good/bad, 0 damaged, 0 checksum errors, 0 repeated, 2 missed.
TV Balance 3/12/02	71	CIDA SPT Encounter	BC/SSR RT/SSR baseband	2002.03.12/2002031223h04m20s.gz & apid500200207110442.out3	3/12/2002	1442 edfs (start w/5252). CIDA GSE gave msg that not enough memory to allocate. Not sure file is complete.	NGIMS, CRISP, CFI, CIDA On. P. Carr: Some early data missing due to SSR limit setup error. Dave T. to provide answer about how apid file was generated. Leeha checking for dup./missing pkts	Andreas: 3/18/02 extra, missing, repeated EDFs Jouni: MET "adjustment" should not affect EDFs. Dave T. 121,672pkts, 36MB. Andreas 3/26/02 apid file analysis More data and EDF 1 and 2! Errors same in EDFs overlapping CIDA GSE file and apid file. Steve/Kevin 4/10/02: All CFI Images present. CRISP missing 4 (SSR setup prob?). Andreas 4/16/02: 13.7% bad/expected. Expected Spectra: 8574 Good/Bad spectra: 8556/1357, Damaged: 0, Spectra w/checksum error: 8, Repeated: 1345, Missed: 0, (C/A +/- 2min Good/Bad spectrums: 559/0)
TV Balance 3/12/02	71	CIDA PwrUp flash mem & 540d, 53a0, d441, d441 ,d441	RT/SSR BC/SSR baseband	2002.03.12/2002031223h15m28s.gz & apid50020020711900.out3	3/12/2002	8 edfs (start with 3) CIDA GSE gave message that cida_socket_server terminating due to bad match.	CIDA On alone, Per D. Tillman, cida_socket_server terminating is a normal msg due to the archive server sending all zeros at the end of the data transfer.	Andreas: 4/2/02 No errors. Dave T. 910pkts, 0.3MB. Andreas 4/16/02: Expected Spectra: 11, Good/Bad spectras: 7/11, Damaged: 0, Spectra w/checksum error: 2, Repeated: 9, Missed: 2 (1st 2), (C/A +/- na)
TV Balance 3/12/02	71	CIDA PwrUp flash mem & 540d, 53a0, d441, d441 ,d441	RT/noSSR BC/SSR baseband	2002.03.12/2002031223h15m28s.gz	3/12/2002	8 edfs (start with 3) CIDA GSE gave message that cida_socket_server terminating due to bad match.	CIDA On alone	Andreas: 4/2/02 No errors.
TV Balance 3/12/02	71	CIDA PwrUp EEPROM & 540d, 53a0, d441, d441 ,d441	RT/noSSR BC/SSR baseband	2002.03.12/2002031223h15m28s.gz	3/12/2002	9 edfs (start with 3) GSE gave message that cida_socket_server terminating due to bad match	CIDA On alone	Andreas: 4/2/02 Checksum error on 2 EDFs.
TV Balance 3/12/02	71	CIDA PwrUp EEPROM & 540d, 53a0, d441, d441 ,d441	RT/SSR BC/SSR baseband	2002.03.12/2002031223h15m28s.gz	3/12/2002	9 edfs (start with 3) GSE gave message that cida_socket_server terminating due to bad match	CIDA On alone	Andreas: 4/2/02 No errors.

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TV Balance 3/13/02	72	CIDA PwrUp flash mem, functional.	BC/SSR noRT/noSSR baseband	2002.03.13/2002031314h39m15s.gz & apid50020020720556.out3	3/13/2002	251 EDFs (start with 3) Msg from CIDA GSE cida_socket_server terminating bad match	IEM1 expecting IEM2 RT, NGIMS On but NGIMS TM off	Andreas: 3/18/02 No errors found. Andreas 4/16/02: Expected Spectra: 1720, Good/Bad spectra: 1713/16, Damaged: 2, Spectra w/checksum error: 5, Repeated: 11, Missed: 2 (1st 2), (C/A +/- 2min na)
TV Balance 3/13/02	72/73	CIDA MOPs Encounter Sequence & Pwr down	BC/SSR RT/noSSR baseband	2002.03.13/2002031314h46m59s.gz 2002.03.13/2002031314h52h42s.gz 2002.03.22/2002031320h36m23s.gz & apid50020020720500.out3	3/18/02 & 3/22/02	Msg from CIDA GSE cida_socket_server terminating. Clock Kernal mismatch between ephmeris s/w and scheduling s/w caused a "bad" CA MET	NGIMS, CRISP, CFI, CIDA On, Only 2002031320h36m23s.gz has full test. Andreas: Apid500 file analysis shows same type of errors but also contains additional data, 13Mb continuous w/o error! Ground receipt times continually increasing. Failures in this file match failures in CIDA GSE file. Leeha could not find duplicate packets in archive or front end Alice checked for duplicate playbacks and found none.	Andreas: damaged, missing, repeatec EDFs(ptr jumping back). See analysis of apid file in previous block. Jouni: Encounter sim OK, EDFs during encounter are extra and unknown # of pkt corrupted. Cida not producing enough data to fill TM buffer - cmd prob. Generates 1 7kB EDF per 100ms during 3min around C/A. Total of 2000 EDFs. Dave T. 102,110pkts, 30MB. PFR CSC 040 opened for missing CIDA packets when there is high data traffic. Kevin: CRISP/CFI missing 40 images. Andreas: 4/16/02: 28.6% bad/expected. Expected Spectra 16154, Good/Bad spectrums: 11786/469 Damaged: 35 Spectrums w/checksum error: 121 Repeated: 400 Missed: 4249, (C/A +/- 2min Good/Bad: 1220/0)
TV Cycle 3/19-20/02	78/79	CIDA PwrUp flsh mem, func., SPT day1	BC/SSR RT/SSR-dis RF	2002.03.20/2002031913h45m44s.gz & 2002.03.21/2002032014h05m19s.gz	3/20/02 & 3/21/02	S/C MET set to 43078432 by SPT proc. Before Pwr Up. Msg from CIDA GSE cida_socket_server terminating.	NGIMS, CRISP, CFI, CIDA On. Asked Leeha to check for duplicate/missing packets in the archive	Andreas: 3/21/02 damaged EDFs, 0 missing EDFs, several repeat EDFs. Alice 4/1/02 cmd log file for times in question sent to CIDA team. P. Carr's analysis 4/2/02 points to RF problems as the cause of the damaged EDFs. Does this make sense?
TV Cycle 3/20-21/02	79/80	CIDA PwrUp flsh mem, SPT day3(enc)	BC/SSR RT/SSR-dis RF	2002.03.21/2002032014h05m19s.gz 2002.03.21/2002032014h28m03s.gz 2002.03.21/2002032014h41m23s.gz apid_500_20020791200.out3	3/21/02 & 4/5/02	1st file has some data from 78/79, msg cida_socket_server terminating. 2nd file looks complete, msg can't allocate memory. 3rd file incomplete - cida_socket_server terminating. Asked Leeha to look for missing pkts	NGIMS, CRISP, CFI, CIDA On. CIDA GSE queries to archive: 1st file 079:00:00:00 to 080:10:00:00; 2nd file and apid500 file 079:12:00:00 to 080:10:00:00; 3rd file - not good	Andreas: 3/22/02 CIDA GSE files generated with overlapping query times produced data that have the same EDF errors. The only EDF errors were missing EDFs. Steve W. - 340pkts/sec used for acceptance testing. Re-ran sim with 700pkts/sec CIDA, 7000pkts/sec CRISP imag, 7000pkts/sec CRISP spect. Did not see any anomalies. Alice - email sent 4/1 out for CRISP img 6700pkts/sec, CFI rates. Andreas: CIDA packet production rate for this test could not be determined. Sreve/Kevin 4/10/02: CFI & CRISP missing 16 images. Harlan confirms. Andreas 4/16/02: 18.6% bad/expected. Expected Spectra: 1939, Good/Bad spectra:1579/110, Damaged: 0, Spectra w/checksum error: 61, Repeated: 0, Missed: 250. (C/A +/- 2min Good/Bad: 498/41)
TV Cycle 3/21-22/02	80/81	CIDA PwrUp flsh mem, func., SPT day4	noRT/noSSR BC/SSR baseband	2002.03.22/2002032121h24m01s.gz	3/22/2002	90 edfs (start w/3)	NGIMS, CIDA, CRISP, CFI on	Andreas: 3/28/02 8 spectra from functional. No errors. Asked Andreas to compare all side B data sets to determine if problems on side B are indiginous to only side B or are also present on side A. Need this info in order to write PFR.

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TV Cycle 3/23/02	82	PwrUp flshmem, func, PwrDn, SPT day1	BC/SSR RT/SSR-dis baseband	2002.03.25/2002032322h56m01s.gz	3/25/2002	2892 edfs (start w/3)	NGIMS, CRISP, CFI, CIDA on.	
TV Cycle 3/23-24/02	82/83	PwrUp flshmem, func, PwrDn, SPT day3(enc)	BC/SSR RT/SSR-dis baseband	2002.03.25/2002032323h02m40s.gz & apid_500_20020821700.out3	3/25/02 & 4/5/02	Possibly incomplete file transfer as CIDA GSE msg "Can't allocate 13147152 bytes". Query 082:17:00 to 083:16:30	NGIMS, CRISP, CFI, CIDA on.	Andreas 3/28/02: Missing EDFs. Checksum and concurrency errors on CIDA GSE file. Steve/Kevin 4/10/02: All CFI & CRISP images present. Andreas 4/16/02: 19.6% bad/expected. Expected Spectra: 7532, Good/Bad spectra: 6785/1148, Damaged: 2, Spectra w/checksum errors: 270, Repeated: 912, Missed: 509 (C/A +/- 2min Good/Bad: 468/86)
TV Cycle 3/24/02	83	PwrUp flshmem, func, PwrDn, SPT day 4	RT/SSR-dis BC/SSR baseband	2002.03.25/2002032423h11m25s.gz	3/25/2002	900 edfs (start w/3)	NGIMS, CRISP, CFI, CIDA on	Andreas: 3/28/02 24 spectra from functional, (spectra good), 1 checksum error. Asked Andreas to compare all side B data sets to determine if problems on side B are indiginous to only side B or are also present on side A. Need this info inorder to write PFR
TV Cycle- Cold 3/30/02	89	Cida PwrUp flshmem, uncomp cmd + 4 staircase cmds Instr. Comp.test	RT/SSR-dis BC/SSR RF COLD	data set empty			NGIMS, CRISP, CFI, CIDA on. CIDA Total packet count remained at zero. Tried pwer cycling CIDA - didn't help.	PFR CSC 053 & SPR 579 written for SSR prob. CRISP spect and CIDA. Analysis: packetizers were turned off preventing data to be recorded.
TV Cycle - Cold 3/30/02	89	Cida PwrUp flshmem, PwrDn	RT/SSR-dis BC/SSR baseband	data set empty			CIDA on alone. CIDA Total packet count remained at zero.	Same comment as above.
Ambient 3/30/02	89	CIDA PwrUp flsh mem, PwrDn	BC/SSR RT/SSR-dis baseband	2002.03.31/2002033100h27m57s.gz	3/30/2002	EDFs 3 to 7	CIDA on alone. CIDA total packet count 36	Andreas: 4/2/02 Last EDF damaged but this may not be a real error as all last EDFs have been damaged.
Ambient 3/30/02	89	CIDA PwrUp flsh mem, PwrDn	RT/SSR-dis BC/SSR baseband	2002.03.31/2002033100h32m00s.gz	3/30/2002	EDFs 3 to 7	CIDA on alone. IEM2 power cycled repeat of test above. CIDA total packet count 37	Andreas: 4/2/02 Checksum error on 1 EDF. Last EDF damaged but this may no be a real error as all last EDFs have been damaged. J. Perschy documented that buffer does not empty last 100 pkts.

Test Phase/ Test Date	DOY	Title	S/C Config.	CIDA GSE Dir/file name(s)	Date sent	edf_file_parser results	Comments	CIDA Team Analysis
Mission Sim II Ambient 4/4-5/02	94/95	CIDA PwrUp fish mem, MOPs encounter, PwrDn	BC/SSR RT/SSR baseband	2002.04.05/2002040417h17m58s.gz & apid_500_20020950300.out3 & apid_0500_20020950300.out4 ("cleaned" vers. .out3)	4/5/2002	EDFs 45 to 1085. PwrUp was not captured on SSR. This could be the reason for the missing 44 packets reported by CIDA TEAM. Cida CA telemetry point appears to be keeping time as designed. Tried to test SSR limiting scheme, but limit set too high for rule to trigger.	CIDA, NGIMS, CRISP, CFI on. Encounter mode. CRISP tracking. A total of 1.75million pkts were recorded on SSR 1 across high speed interface. CIDA indicates 101576 pkts recorded. Harlan 4/24/02: 4420 EDFs, of which 3 have checksum errors, 2 due to pkts that aren't in the archive because of grd receipt probs. and final due to packets in buffer. Andreas 4/26/02: .out4 looks good - no dups only missing EDFs explained by cmd'd SSR ptr reset. 1% bad/expected, Good/Bad 4418/2, expected 4464, Damaged 0, checksum 1, repeated 0, missed 44.	Jouni 4/8/02: 3*234extra bytes, missing 2pkts during very closest approach. Andreas 4/8/02: Checksum errors due to duplicate pkts. Harlan checking FE and archive files for header mismatch, etc. Andreas 4/16/02: 22.1% bad/expected. Expected Spectra: 81961, Good/Bad 4358/1192, Damaged: 113, Spectra w/checksum error: 892, Repeated: 1127, Missed: 77502 (1st 44 - possibly due to ssr ptr being reset at begin of enc seq.), (C/A +/- 2min Good/Bad: 1220/0)
Post TV 4/8/02	98	CIDA PwrUp FishMem, SPT Day1 (func & ssr stress test)	BC/SSR noRT/noSSR baseband/RF	apid_0500_20020981720.out3	4/9/2002		CIDA, NGIMS, CRISP, CFI on. SSR stress test.	Jouni 4/9/92: Missing 1st 2 EDFs. No CIDA staircase commands seen in data during ssr stress test. Steve 4/10/02: All CFI images present. Andreas 4/17/02: Expected Spectra: 3071, Good/Bad Spectra: 3065/177, Damaged: 0, Spectra w/checksum error: 4, Repeated: 173, Missed: 2 (1st 2), (C/A +/- 2min na)
Post TV 4/9/02	99	CIDA PwrUp FishMem, SPT Day3 (enc)	BC/SSR noRT/noSSR baseband/RF	apid_0500_20020992109.out3 & apid_0500_20021000120.out3	4/10/2002	Data was played back twice from SSR to determine playback procedure could be the culprit in the missing, repeated, damaged EDFs. Request analysis of diff. Bet. 2 sets from CIDA team	CIDA, NGIMS, CRISP, CFI on. SPT Encounter Test.	Jouni: Data sets match. Both show missing EDFs (389) and duplicates. Steve/Kevin 4/10/02: All CFI images present. CRISP missing 2 images. Andreas 4/16/02: 14.8% bad/expected. Expected Spectra: 2285, Good/Bad spectra: 1951/13, Damaged: 11, Spectra w/checksum error: 6, Repeated: 7, Missed: 326 (1st 326), (C/A +/- 2min Good/Bad: 559/0)
Post TV 4/10/02	100	CIDA PwrUp FishMem, SPT Day4 (side B day1)	RT/noSSR BC/SSR baseband	apid_0500_20021002115.out3 & apid_0500_20021002117.out3	4/12/2002	Trouble with ssr stress test. Not sure if the complete analysis of 2nd file: No difference. S/W accounts for duplicate packets load was done.	CIDA, NGIMS, CRISP, CFI on. SPT Day 4 Test. Jouni 4/17/02 analysis of 2nd file: No difference. S/W accounts for duplicate packets CIDA TM data content is not correct in both files.	Jouni 4/16/02: Only 2 EDF syncs but lots of CIDA data. Same as problem on 3/6. From each transfer, only end of data is put into STP packet. No STP order errors seen and only 2 missing STPs. Andreas 4/16/02: Expected Spectra: 4, Good/Bad spectra: 0/2, Damaged: 0, Spectra w/checksum error: 1, Repeated: 0, Missed: 2, (1st 2) (C/A +/- 2min Good/Bad: na)
4/12/2002	102	CIDA Load to EEPROM	BC/SSR noRT/noSSR RF/baseband	apid_0500_20021022345.out3	4/13/2002	Load to EEPROM not successful	CIDA on alone.	Andreas 4/16/02: Expected Spectra: 4, Good/Bad spectra: 0/4, Damaged: 0, Spectra w/checksum error: 1, Repeated: 2, Missed : 2, (C/A +/- 2min na)

Test Phase/ Test Date	DOY	Title	S/C Config.	CIDA GSE Dir/file name(s)	Date sent	edf_file_parser results	Comments	CIDA Team Analysis
4/16/2002	106	CIDA Load to EEPROM	BC/SSR RT/SSR-dis baseband	apid_0500_20021061611.out3		Load to EEPROM not successful	CIDA and CRISP on (CRISP not sending images.)	Jouni 4/17/02: Something is wrong. Only 2 EDFs received. PFR CSC 059 opened. 4/19/02: Loosing # of bytes in each 100ms transfer.
4/17/2002	107	SPT Day 3 (enc) with C&DH patch	BC/SSR RT/SSR-dis	apid_0500_20021071709.out3	4/18/2002		CIDA, CRISP(img), CFI and NGIMS on	Andreas 4/18/02: 0.7% bad/expected. Expected Spectra: 2065, Good/Bad spectra: 2055/13, Damaged: 1, Spectra w/checksum error: 6, Repeated: 8, Missed: 2 (1st 2), (C/A +/- 2min Good/Bad: 559/0) All CFI and CRISP images received or explained(4).
4/30/2002	120	SPT Day 1 (pwr up, func, ssr stress)	BC/SSR noRT/SSR-dis baseband	apid_0500_20021201700.out3 (pwr up, func) & apid_0500_20021202230.out3 (ssr tst)	4/30/02 & 5/1/02	CIDA functional. High and Low Speed recording is disabled at 17:18 and re-enabled ? NGIMS and CIDA still producing data. 2nd data set has the ssr stress test.	CIDA, NGIMS, CRISP, CFI on	Jouni: 5/1/02: No duplicates, no missing except 1st 2 EDFs. Andreas 5/2/02: 0.6% bad/expected, 684/2 good/bad, 0 damaged, 1 checksum error, 0 repeated, 2 missed.
5/2/2002	122	SPT Day 3	BC/SSR, RT/SSR-dis baseband	apid_0500_20021221530.out3(pwr up func) & apid_0500_20021222300.out3 (enc)	5/2/02 & 5/3/02		CIDA, NGIMS, CRISP, CFI on	Andreas 5/6/02: Unrecognized data, repeated every 30 EDFs. Amt of missed corresponds to amt of unrecognized data! 21.4% bad/expected, 1767/124 good/bad, 0 damaged, 2 checksum errors, 0 repeated, 356 missed. (C/A +/- 2min 501/38 good/bad 7.1%) Jouni 5/6/02: 0x543e cmds seen. CIDA in enc mode so self regulating memory usage. Same corrupted data problem seen in this data set. CRISP and CFI still being analyzed.
5/3/2002	123	Load to EEPROM	noRT/noSSR BC/SSR baseband	apid_0500_20021231230.out3 & apid_0500_20021231700.out3	5/3/2002	CIDA pwr up flash memory, diagnostic functional, 1413 pkts written. CIDA check of data, load to EEPROM, pwr dn, pwr up EEPROM. Current remained at .16A and no pkts were written to SSR after boot from EEPROM		Andreas 5/6/02: 13.6% bad/expected, 965/6 good/bad, 1 damaged, 3 checksum errors, 2 repeated, 146 missed. CRISP and CFI still being analyzed.
5/3/2002	123	SPT Day 4	noRT/noSSR BC/SSR baseband	apid_0500_20021231700.out3 & apid_0500_20021231230.out3	5/3/02 & 5/6/02	1st file contains CIDA pwr up from s/c. 2nd file contains ssr stress test data.	CIDA, NGIMS, CFI, CRISP on	CRISP and CFI still being analyzed.
5/10/2002	130	Autonomy - safing cmd testing	BC/SSR noRT/noSSR baseband			Data was not played back so no data to analyze. Test can not be evaluated.		
5/14/2002	135	CIDA Software load (version 17) followed by writes/dumps to EEPROM	BC/SSR RT/SSR baseband	apid_0500_20021350140.out3	5/14/2002	S/W load to CIDA-cidacode.fsH. Then ran cida_pwrup_softwareTest.prc. Boot from new code, then write and dump to EEPROM.	CIDA on alone.	Andreas 5/15/02: After accounting for the change in EDF data due to new s/w only 0.5% bad/expected. Jouni 5/15/02: No TM errors seen. EEPROM is generally OK. 1-2 pages (128bytes) not being updated but not consistent between tests. Will try to accomplish EEPROM load by sending cmd more than once.

Test Phase/ Test Date	DOY	Title	S/C Config.	CIDA GSE Dir/file name(s)	Date sent	edf_file_parser results	Comments	CIDA Team Analysis
5/17/2002	137	CIDA Load to EEPROM & verification tests	BC/SSR RT/SSR-dis baseband	apid_0500_20021372330.out3	5/17/2002	cida_pwrup_softwareTest2.prc Telemetry indicates a good load to EEPROM	CFI on initially, then CIDA on alone	Jouni 5/18/02: EEPROM successfully loaded with s/w version 17. Andreas 5/22/02: No errors!
5/17/2002	137	CIDA S/W load (version 17) and boot from flash memory and EEPROM	RT/SSR-dis BC/SSR baseband	apid_0500_20021380030.out3	5/17/2002	CIDA2_cidacode_135_...prc, cida_pwrup_EEPROM.prc, cida_pwrup_FLSH_MEM.prc. Telemetry indicates a good s/w load, boot from s/c and EEPROM.	CIDA on alone.	Andreas 5/22/02: No errors!
5/20/2002	140	MOPs Encounter, CIDA pwrup FlshMem	BC/SSR RT/SSR baseband C&T(start to 22:05UTC), RF C Baseband T (22:05UTC to 03:05UTC), baseband C&T (03:05UTC to end)		5/22/2002	CIDA MOPs encounter sequence. SSR limiter - window 1 (C/A -6hrs to -4.5hrs) set to 100 pkts. Rule fired at MET 43131637. Pkts resumed at start of Window 2 (C/A -4.5hrs to -3.0hrs) set to 60,000 total pkts. Window 3 (C/A -3.0hrs to end) set to 120,000 total pkts.	CIDA, NGIMS, CRISP, and CFI on. Note 1: the SSR began recording at about 20 minutes after CIDA power up. The SSR pointers were reset at 43128473 or ~18:58 UTC. So any CIDA data sent to the SSR from power up to a UTC of 18:58 may not be on the SSR and can be attributed to the set up of the sequence and SSR. (This is most likely the cause of the 154 missed EDFs at the beginning.) Note 2: The SSR 2 playback missed the first 150,000 pkts due to a cmdng error. It also ended prematurely due to s/c being turned over for other I&T work.	Jouni 5/23/02: Nearly perfect! 4000 CIDA EDFs received, all useful. During periods of low data activity, CIDA buffer sent 0xDA0. Ok as long as there is space on SSR. Andreas 5/23/02: 0.7% bad/expected. Expected Spectra: 4157, Good/Bad: 3984/23, Damaged: 2, Spectra w/checksum errors: 17, Repeated: 5, Missed: 155, % bad&missed: 4.3%.