

Attachment AF
Post Crash Immersion Test Results

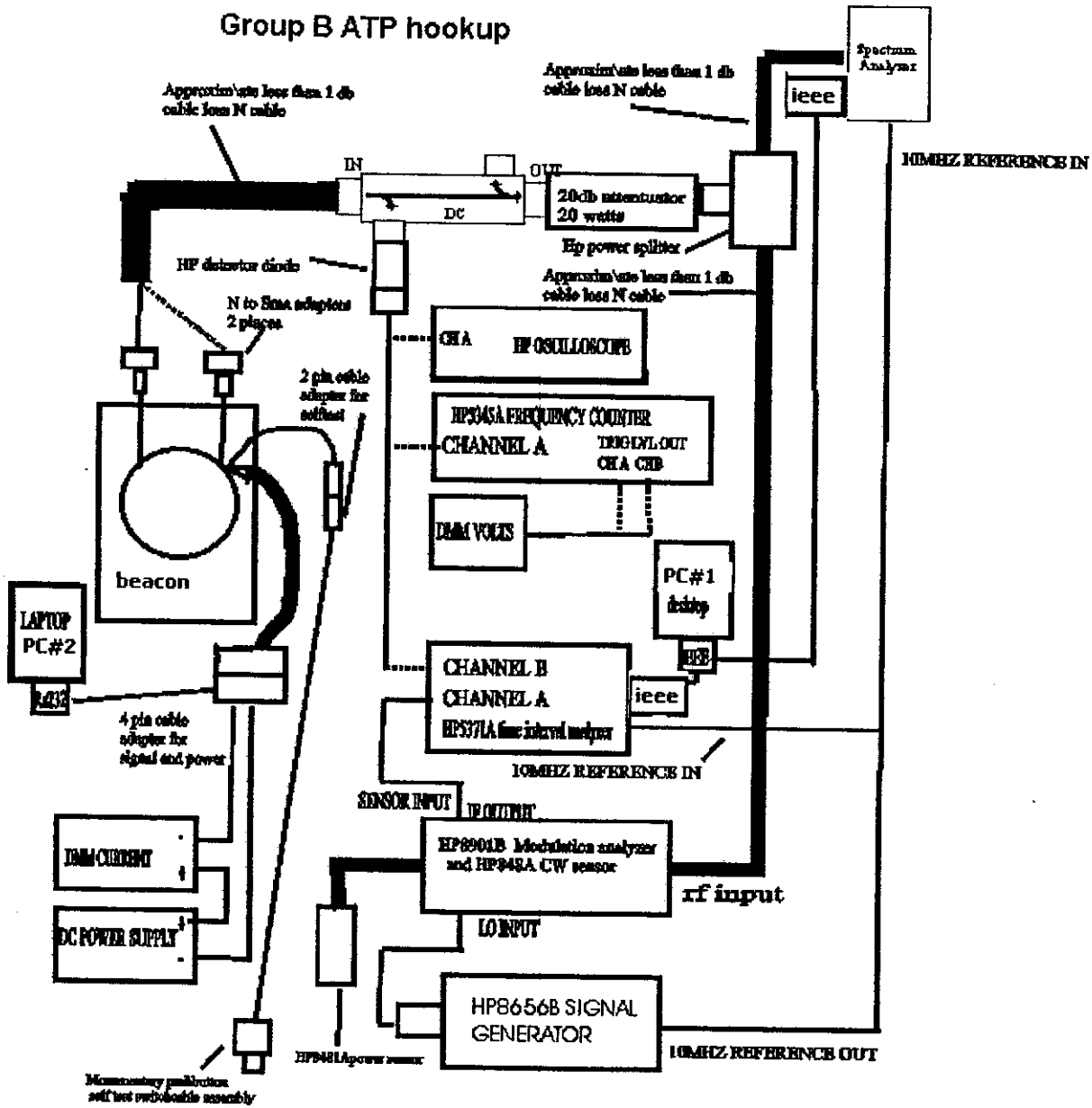
Qualification Data Sheet

Date: 12/12/02	Test: POST CRASH FUNCTION
Test Unit Description	SRB-406 ELT, PN P3-03-0041-001, revision 05, Serial # 2007
Test Unit Configuration	Antenna "A" PN A3-06-2053-001 rev 02 SN 0024 Antenna "B" PN A3-06-2053-001 rev 02 SN 0026 Digital CCA PN A3-07-0038-800 rev 07 SN 0006 RF CCA PN A3-07-0039-800 rev 07 SN 0002 Battery pack A3-03-1006-001 rev 04 SN 020149 Lanyard PN A3-05-0099-001 rev 03.
Description of Test Method (ex: Eurocae ED-62, para x.x)	DO 2.3.9.4, 2.3
Pass/Fail Criteria	DO 2.3.9.4, 2.3 Y1-02-1053, 1054
Authorized Deviations	N/A
Test Location	DME ORLANDO
Purchase Order #	N/A
Test Equipment Arrangement (if necessary)	SEE ATTACHED DATA SHEETS
List of Calibrated Equipment	SEE ATTACHED DATA SHEETS
DME Test Engineer	K. HEINT
DME QA Representative	K. KOTYK
Lab Test Engineer/Technician	N/A
Other Witness	N/A
Test Unit Authorized Deviations	N/A
Test Data	SEE ATTACHED DATA SHEETS
Data Reduction/Calculations	N/A
Test Deviations	N/A
Test Performed Prior to this Test	FIRE
Next Test to be Performed	HIGH TEMPERATURE TEST
Test Engineer Signature	K. HEINT
QA Signature	K. KOTYK
Other Witness Signature	N/A
NMR #	OR0995
Notes	UNIT INITIALLY PASSED PART OF ATA-1053 THEN FAILED DURING TEST.

DO204/183 Group B PC controlled ATP tests

- 1) OBTAIN dme DOC Y1-02-1053, Y1-02-1054 and DO-204, 183 documents FOR REFERENCE AND SET UP.
- 2) Perform the Y1-02-1054 test procedure.
- 3) Perform para. 3.1 through 3.10 of Y1-02-1053
- 4) Instead of connecting equipment as shown in figure 1A of Y1-02-1053, set up as shown here in this attachment called GROUP B HOOKUP.
- 5) Activate the "spur121.vi", "spur243.vi", and "spur406.vi" software on PC#1 with a serial number based file name for the beacon in question. Do not start the acquire process yet.
- 6) Activate the "beaconminiexec.exe" software and highlight all the test annunciation points to gather all the 406 modulation data. Do not start the acquire process yet.
- 7) Connect the beacon antenna A port to the test equipment and activate the beacon by removing the magnet.
- 8) Perform Y1-02-1053 tests after 15 minutes of warm up sequentially utilizing "spur121.vi", "spur243.vi", and "spur406.vi" on the PC#1 to collect the frequency and side band data needed by the Y1-02-1053 data sheet for paragraphs 4.1.2-3, 4.1.5-6, and 4.2.2 Run the "beaconminiexec.exe" software after to collect the 406 modulation information for the data sheet.
- 9) Perform the remaining paragraphs manually to finish up the data sheet.
- 10) Print all the "spur121.vi", "spur243.vi", and "spur406.vi" output data collected and the beaconminiexec.exe output data collected.

Group B ATP hookup



TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

PORT C/NA# 1145110W

Tested By:

DATE:

Beacon P3-03-0041-001

Serial Number:

AFTER REPAIR OF C103

AWT A 0029
AWT B 0026
RF=0002
DLG=0016
BATT=02044



Test Equipment	Model	Serial No. or Control No.	Cal. Due
SPECAN	HP 8568B	OR3063	9/18/03
GENERATOR	HP 8656B	OR1091	5/18/03
MODANA	HP 8901A	OR1093	1/30/03
SLOPE	HP 54110B	OR0627	2/29/03
POWER METER	HP 70100A	6FE 588	9/12/03
CLW GENERATOR	HP 8481A	6FE 0112	2/24/03

TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

SPECTRUM ANALYZER OFFSET DETERMINATION AND PRETEST					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
3.3	HP8656 setting for 121.5MHZ	-0.5	<u>0.3</u> dBm	+0.5	☒ P ☐ F
3.4	HP8656 setting for 243 MHZ	-0.5	<u>0.2</u> dBm	+0.5	☒ P ☐ F
3.5	HP8656 setting for 406.028 MHZ	-0.5	<u>0.1</u> dBm	+0.5	☒ P ☐ F

PA 46
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BIST and turn on tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.1.1	Beacon passes self test and goes off	N/A	<u>✓</u> chk	N/A	☒ P ☐ F
4.1.2	Beacon stays off	N/A	<u>✓</u> chk	N/A	☒ P ☐ F
4.1.3	Beacon transmits when B antenna is touched.	N/A	<u>✓</u> chk	N/A	☒ P ☐ F
4.1.4	Beacon goes off when magnet is installed.	N/A	<u>✓</u> chk	N/A	☒ P ☐ F
4.1.5	Beacon transmits when A antenna is touched.	N/A	<u>✓</u> chk	N/A	☒ P ☐ F
4.1.6	Beacon goes off when magnet is installed.	N/A	<u>✓</u> chk	N/A	☒ P ☐ F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

RF beacon 121.5/243 Mhz Tests

Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.2.1	Peak Power at 121.5 MHZ	17.0dBm	<u>20.4</u> dBm	N/A	(P) F
	Antenna gain including feeder and mismatch losses for 121.5 Mhz obtained from antenna field tests.	N/A	<u>-1.0</u> dB T/MO	N/A	N/A
	Peak power + antenna gain= EIRP	<u>17</u> 20dbm EIRP	<u>19.4</u> dBm T/MO	N/A	(P) F
4.2.2	Frequency 121.5 MHz $\pm$ 6 kHz	121.494	<u>121.5021</u> MHz	121.506	(P) F
4.2.3	Peak Power at 243 MHZ	17.0dBm	<u>20.7</u> dBm	N/A	(P) F
	Antenna gain including feeder and mismatch losses for 243 Mhz obtained from antenna field tests.	N/A	<u>3.7</u> dB T/MO	N/A	N/A
	Peak power + antenna gain= EIRP	<u>17</u> 20dbm EIRP	<u>24.4</u> dBm T/MO	N/A	(P) F
4.2.4	Frequency 243 MHz $\pm$ 12 kHz	242.988	<u>243.004</u> MHz	243.012	(P) F
4.2.5	121.5 Mhz Modulation depth	N/A	<u>-41.5</u> dBc	-22dBc	(P) F
4.2.6	121.5 /243 Mhz Duty cycle	45%	<u>62</u> %	67%	(P) F
4.2.7	Max audio frequency	N/A	<u>1498</u> Hz	1600	(P) F
	Min audio frequency	300	<u>360</u> Hz	N/A	(P) F
	Max - Min	<u>N/A</u> 400	<u>1138</u> Hz	<u>700</u> N/A	(P) F
4.2.8	Sweeps in 10 seconds	20	<u>30</u> count	40	(P) F



TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

RF beacon 406.028 Mhz Tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.3.1	Peak Power at 406.028 MHZ	35.0dBm	<u>35.6</u> dBm	N/A	☒ P ☐ F
	Antenna gain including feeder and mismatch losses for 406.028 Mhz obtained from antenna field tests.	N/A	<u>0.15</u> dB 77.70	N/A	N/A
	Peak power + antenna gain= EIRP	32.0dbm EIRP	<u>35.75</u> dBm 77.70	N/A	☒ P ☐ F
4.3.2	Frequency Accuracy 406.028 MHz $\pm$ 1 kHz	406.0270	<u>406.0282</u> mHz	406.0290	☒ P ☐ F

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AFTER REPAIR OF C103

Y1-02-1053 Rev. -
September 30, 2002

TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

Tested By: [Signature]

DATE: 12/19/02

2007

RF PCB (A3-07-0039) Serial Number: 0002

DIGITAL PCB (A3-07-0038) Serial Number: 0010

Test Equipment	Model	Serial No. or Control No.	Cal. Due
SPECTAN	HP8568B	0R3063	9/18/03
GENERATOR	HP 8656B	0R1091	9/18/03
MOD MWT	HP8901B	0R1093	1/30/03
SCOPE	HP 54510A	0R0627	8/29/03
TIME + FREQ METER	HP 5371A	2842A00760	6/11/03
POWER METER	HP 70100A	6FE 588	9/12/03
CW SIGNAL	HP8481A	6FE0012	2/22/03
DMU	FLUKE 8050A	OR1090	6/14/03

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

SPECTRUM ANALYZER OFFSET DETERMINATION AND PRETEST					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
3.3	HP8656 setting for 121.5MHZ	-0.5	<u>+0.3</u> dBm	+0.5	<u>P</u> F
3.4	HP8656 setting for 243 MHz	-0.5	<u>+0.3</u> dBm	+0.5	<u>P</u> F
3.5	HP8656 setting for 406.028 MHz	-0.5	<u>0.2</u> dBm	+0.5	<u>P</u> F

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RF beacon 121.5/243 Mhz Tests

Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.1.1	Peak Power at 121.5 MHz	17.0dBm	<u>17.7</u> dBm	N/A	<u>P</u> F
	UUT current during 121.5/243 Mhz broadcast	N/A	<u>84</u> mA	100mA	<u>P</u> F
4.1.2	Frequency 121.5 MHz $\pm$ 6 kHz	121.494	<u>121.5015</u> MHz	121.506	<u>P</u> F
4.1.3	121.5 MHz Bandwidth $\geq$ +12.5 kHz	N/A	<u>-28.3</u> dBc	-25dBc	<u>P</u> F
	121.5 MHz Bandwidth $\leq$ -12.5 kHz	N/A	<u>-27.8</u> dBc	-25dBc	<u>P</u> F
	121.5 MHz Bandwidth $\geq$ +25 kHz	N/A	<u>-33.0</u> dBc	-30dBc	<u>P</u> F
	121.5 MHz Bandwidth $\leq$ -25 kHz	N/A	<u>-34.5</u> dBc	-30dBc	<u>P</u> F
4.1.4	Peak Power at 243 MHz	17.0dBm	<u>19.0</u> dBm	N/A	<u>P</u> F
4.1.5	Frequency 243 MHz $\pm$ 12 kHz	242.988	<u>243.0027</u> MHz	243.012	<u>P</u> F
4.1.6	243 MHz Bandwidth $\geq$ +12.5 kHz	N/A	<u>-29.7</u> dBc	-25dBc	<u>P</u> F
	243 MHz Bandwidth $\leq$ -12.5 kHz	N/A	<u>-29.1</u> dBc	-25dBc	<u>P</u> F
	243 MHz Bandwidth $\geq$ +25 kHz	N/A	<u>-34.6</u> dBc	-30dBc	<u>P</u> F
	243 MHz Bandwidth $\leq$ -25 kHz	N/A	<u>-34.4</u> dBc	-30dBc	<u>P</u> F
4.1.7	121.5 Mhz Modulation depth	N/A	<u>-40.4</u> dBc	-22dBc	<u>P</u> F
4.1.8	364.5 MHz harmonic	N/A	<u>-48.80</u> dBc	-30dBc	<u>P</u> F
	486 MHz harmonic	N/A	<u>-52.00</u> dBc	-30dBc	<u>P</u> F
4.1.9	121.5 /243 Mhz Duty cycle	45%	<u>62</u> %	67%	<u>P</u> F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

RF beacon 406.028 Mhz Tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.2.1	Peak Power at 406.028 MHz	35.0dBm	<u>36.1</u> dBm	39.0dbm	(P) F
	UUT peak current during 406 Mhz broadcast	N/A	<u>1.49</u> A	1.7A	(P) F
4.2.2	406.028 MHz Bandwidth $\geq +12.0$ kHz	N/A	<u>-42.2</u> dBc	-30dBc	(P) F
	406.028 MHz Bandwidth ≤ -12.0 kHz	N/A	<u>-41.1</u> dBc	-30dBc	(P) F
	406.028 MHz Bandwidth $\geq +24$ kHz	N/A	<u>-47.1</u> dBc	-40dBc	(P) F
	406.028 MHz Bandwidth ≤ -24 kHz	N/A	<u>-45.1</u> dBc	-40dBc	(P) F
4.2.3	812 MHz harmonic	N/A	<u>-42.7</u> dBc	-30dBc	(P) F
4.2.4	406 pulse falling (starting edge) time	0.3	<u>0.904</u> msec	5.0	(P) F
4.2.5	406 pulse rising (stopping edge) time	0.3	<u>1.42</u> msec	5.0	(P) F
4.2.6	Total transmission pulse time measured with diode detector.	435.6	<u>442.29</u> msec	444.4	(P) F
4.2.7	Total transmission time burst spacing measured with diode detector.	47.5	<u>49.8</u> sec	52.5	(P) F
4.2.9	Phase modulation +1.10 radian peak	1.00	<u>1.0711</u> Rad	1.20	(P) F
4.2.10	Phase modulation -1.10 radian peak	-1.20	<u>-1.0228</u> Rad	-1.00	(P) F
4.2.11	Phase modulation rise time	50usec	<u>160.2</u> usec	250 usec	(P) F
4.2.12	Phase modulation fall time	50usec	<u>151.8</u> usec	250 usec	(P) F
4.2.13	Phase modulation rise/fall symmetry	N/A	<u>0.018</u> ratio	0.05	(P) F
4.2.14	Modulation Bit rate 400 bits/sec	396.0	<u>401.07</u> Hz	404.0	(P) F
4.2.15	CW preamble time	158.4	<u>160.97</u> msec	161.6	(P) F
4.2.16	NOAA HEX ID ID/SN matches programmed in	N/A	<u>A00C07C0440401</u>	N/A	(P) F
4.2.17	Frequency Accuracy 406.028 MHz ± 1 kHz	406.0270	<u>406.0281199</u> MHz	406.0290	(P) F
4.2.18	Short term stability	-2e-9	<u>277x10⁻¹²</u> n/a	2e-9	(P) F
4.2.19	medium term residual variation	-3e-9	<u>655x10⁻¹²</u> n/a	3e-9	(P) F
4.2.20	medium term slope	-1e-9	<u>593x10⁻¹²</u> n/a	1e-9	(P) F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

BIST ,activation and B antenna output power tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.3.2	Beacon stays off	N/A	<u>✓</u> chk	N/A	(P) F
4.3.3	Beacon passes self test and goes off	N/A	<u>✓</u> chk	N/A	(P) F
4.3.4	Beacon transmits when load is connected to B antenna	N/A	<u>✓</u> chk	N/A	(P) F
4.3.6 (-002 version only)	Peak Power at 121.5 MHZ	17.0dBm	<u>N/A</u> dBm	N/A	P F
4.3.7 (-002 version only)	Peak Power at 243 MHZ	17.0dBm	<u>N/A</u> dBm	N/A	P F
4.3.8 (-002 version only)	Peak Power at 406.028 MHZ	35.0dBm	<u>N/A</u> dBm	39.0dBm	P F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

Beacon Calibration factor recording

Para.	Description	Under 0 deg c	0 to 35 deg c	Over 35 deg c
4.4.4	12 volt gain settings for 121/243 power (Q1 location)	3500	3300	3100
4.4.5	12 volt gain settings for 406 power (Q3 location)	0	0	0
4.4.6	406 phase modulation +1.1 radian (Q5 location)	1522	1522	1522
	406 phase modulation 0.0 radian (Q5 location)	998	998	998
	406 phase modulation -1.1 radian (Q5 location)	421	421	474
4.4.7	406 gain A (Q7 location)	2400	2500	2600
4.4.8	406 gain B (Q9 location)	2400	2400	2600
4.4.9	Preamble time. (Q11 location)	N/A	Time in msec 155.8	N/A
4.4.10	406 gain B offset (Q13 location)	Over voltage mode 0	Nominal voltage 0	Undervoltage mode 0
4.4.11	Battery threshold (Q15 location)	Over voltage mode 11002	N/A	Undervoltage mode 9001

DATA OK
N/A

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Test Start 12/19/02, 11:32 AM

---MODULATION TEST---

PosPhase

UL = 1.2000000

LL = 1.0000000

Results = 1.0711733

NegPhase

UL = -1.0000000

LL = -1.2000000

Results = -1.0228270

Test Status: PASSED

---MOD_SYM TEST---

ModRise

UL = 0.0002500

LL = 0.0000500

Results = 0.0001602

ModFall

UL = 0.0002500

LL = 0.0000500

Results = 0.0001518

ModSym

UL = 0.0500000

LL = N/A

Results = 0.0185885

Test Status: PASSED

---DECODER TEST---

Baud

UL = 404.0000000

LL = 396.0000000

Results = 401.0702587

Preamble

UL = 0.161600

LL = 0.158400

Results = 0.160977

ID/SN: ADDC07C01440401

Test Status: PASSED

---FREQUENCY TEST---

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11:32 AM
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MeanFreq

UL = 406.0290000E+6

LL = 406.0270000E+6

Results = 406.0281149E+6

ShortTerm

UL = 2.0000000E-9

LL = -2.0000000E-9

Results = 277.1697201E-12

MediumTerm

UL = 3.0000000E-9

LL = -3.0000000E-9

Results = 655.2590798E-12

MeanSlope

UL = 1.0000000E-9

LL = -1.0000000E-9

Results = 593.5661846E-12

Test Status: PASSED

Test Finished 12/19/02, 11:49 AM

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0	.00	PASS	LIMIT 0
100	-.20	PASS	LIMIT 0
200	-.20	PASS	LIMIT 0
300	-.70	PASS	LIMIT 0
400	-.80	PASS	LIMIT 0
500	-1.50	PASS	LIMIT 0
600	-1.60	PASS	LIMIT 0
700	-2.40	PASS	LIMIT 0
800	-4.10	PASS	LIMIT 0
900	-4.20	PASS	LIMIT 0
1000	-5.30	PASS	LIMIT 0
1100	-5.90	PASS	LIMIT 0
1200	-6.50	PASS	LIMIT 0
1300	-7.20	PASS	LIMIT 0
1400	-7.20	PASS	LIMIT 0
1500	-7.50	PASS	LIMIT 0
1600	-7.90	PASS	LIMIT 0
1700	-8.50	PASS	LIMIT 0
1800	-9.20	PASS	LIMIT 0
1900	-10.60	PASS	LIMIT 0
2000	-11.40	PASS	LIMIT 0
2100	-12.40	PASS	LIMIT 0
2200	-13.50	PASS	LIMIT 0
2300	-14.50	PASS	LIMIT 0
2400	-15.60	PASS	LIMIT 0
2500	-16.60	PASS	LIMIT 0
2600	-17.00	PASS	LIMIT 0
2700	-17.60	PASS	LIMIT 0
2800	-17.50	PASS	LIMIT 0
2900	-17.60	PASS	LIMIT 0
3000	-17.60	PASS	LIMIT 0
3100	-17.80	PASS	LIMIT 0
3200	-18.00	PASS	LIMIT 0
3300	-18.20	PASS	LIMIT 0
3400	-18.20	PASS	LIMIT 0
3500	-18.40	PASS	LIMIT 0
3600	-18.80	PASS	LIMIT 0
3700	-19.20	PASS	LIMIT 0
3800	-19.70	PASS	LIMIT 0
3900	-20.20	PASS	LIMIT 0
4000	-20.20	PASS	LIMIT 0
4100	-20.20	PASS	LIMIT 0
4200	-20.30	PASS	LIMIT 0
4300	-20.40	PASS	LIMIT 0
4400	-20.30	PASS	LIMIT 0
4500	-20.00	PASS	LIMIT 0
4600	-20.00	PASS	LIMIT 0
4700	-19.80	PASS	LIMIT 0
4800	-19.90	PASS	LIMIT 0
4900	-19.90	PASS	LIMIT 0
5000	-20.10	PASS	LIMIT 0
5100	-20.10	PASS	LIMIT 0

5200	-20.20	PASS	LIMIT 0
5300	-20.40	PASS	LIMIT 0
5400	-21.20	PASS	LIMIT 0
5500	-21.60	PASS	LIMIT 0
5600	-22.60	PASS	LIMIT 0
5700	-23.10	PASS	LIMIT 0
5800	-23.50	PASS	LIMIT 0
5900	-23.80	PASS	LIMIT 0
6000	-22.70	PASS	LIMIT 0
6100	-22.40	PASS	LIMIT 0
6200	-23.10	PASS	LIMIT 0
6300	-24.90	PASS	LIMIT 0
6400	-24.90	PASS	LIMIT 0
6500	-24.80	PASS	LIMIT 0
6600	-24.70	PASS	LIMIT 0
6700	-24.40	PASS	LIMIT 0
6800	-23.80	PASS	LIMIT 0
6900	-23.10	PASS	LIMIT 0
7000	-23.10	PASS	LIMIT 0
7100	-23.10	PASS	LIMIT 0
7200	-23.10	PASS	LIMIT 0
7300	-23.10	PASS	LIMIT 0
7400	-23.10	PASS	LIMIT 0
7500	-23.10	PASS	LIMIT 0
7600	-23.10	PASS	LIMIT 0
7700	-23.30	PASS	LIMIT 0
7800	-23.30	PASS	LIMIT 0
7900	-23.70	PASS	LIMIT 0
8000	-24.60	PASS	LIMIT 0
8100	-25.40	PASS	LIMIT 0
8200	-25.90	PASS	LIMIT 0
8300	-26.40	PASS	LIMIT 0
8400	-26.30	PASS	LIMIT 0
8500	-26.30	PASS	LIMIT 0
8600	-26.30	PASS	LIMIT 0
8700	-26.40	PASS	LIMIT 0
8800	-26.40	PASS	LIMIT 0
8900	-27.40	PASS	LIMIT 0
9000	-27.60	PASS	LIMIT 0
9100	-27.60	PASS	LIMIT 0
9200	-27.60	PASS	LIMIT 0
9300	-27.80	PASS	LIMIT 0
9400	-28.00	PASS	LIMIT 0
9500	-28.00	PASS	LIMIT 0
9600	-28.00	PASS	LIMIT 0
9700	-27.90	PASS	LIMIT 0
9800	-27.30	PASS	LIMIT 0
9900	-27.60	PASS	LIMIT 0
10000	-26.80	PASS	LIMIT 0
10100	-26.80	PASS	LIMIT 0
10200	-26.70	PASS	LIMIT 0
10300	-26.90	PASS	LIMIT 0

10400	-26.70	PASS	LIMIT 0
10500	-26.90	PASS	LIMIT 0
10600	-26.90	PASS	LIMIT 0
10700	-27.00	PASS	LIMIT 0
10800	-27.10	PASS	LIMIT 0
10900	-27.10	PASS	LIMIT 0
11000	-27.30	PASS	LIMIT 0
11100	-27.40	PASS	LIMIT 0
11200	-28.00	PASS	LIMIT 0
11300	-28.20	PASS	LIMIT 0
11400	-29.10	PASS	LIMIT 0
11500	-29.40	PASS	LIMIT 0
11600	-29.80	PASS	LIMIT 0
11700	-29.80	PASS	LIMIT 0
11800	-29.90	PASS	LIMIT 0
11900	-29.90	PASS	LIMIT 0
12000	-30.00	PASS	LIMIT 0
12100	-29.70	PASS	LIMIT 0
12200	-29.30	PASS	LIMIT 0
12300	-28.50	PASS	LIMIT 0
12400	-28.40	PASS	LIMIT 0
12500	-28.40	PASS	LIMIT -25
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CENTER FREQ PASS AT 121.5015E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12600	-28.30
-30DB MAX VALUE FOR 25.0K TO 44.00K	26800	-33.00
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12600	-27.80
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25300	-34.50

BEACON 121 SIDEBAND PASS

BEACON SN sn2007_12_19_02afterrepair
TIME START 8:43am
DATE START 12/19/2002

PHAN
WA.

ORL
SQ01
DME

CP

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100	-.40	PASS	LIMIT 0
200	-.40	PASS	LIMIT 0
300	-.40	PASS	LIMIT 0
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500	-1.60	PASS	LIMIT 0
600	-2.60	PASS	LIMIT 0
700	-3.30	PASS	LIMIT 0
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1200	-7.80	PASS	LIMIT 0
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1800	-9.90	PASS	LIMIT 0
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-44100	-40.50	PASS	LIMIT -30

CENTER FREQ PASS AT 243.0027E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500	-29.70
-30DB MAX VALUE FOR 25.0K TO 44.00K	25500	-34.60
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-29.10
-30DB MAX VALUE FOR -25.0K TO -44.00K	-26700	-34.40

BEACON 243 SIDEBAND PASS

BEACON SN sn2007_12_19_02afterrepair
TIME START 8:48am
DATE START 12/19/2002

pass
RAH



KE

0	.00	PASS	LIMIT 0
50	-.10	PASS	LIMIT 0
100	-.50	PASS	LIMIT 0
150	-1.60	PASS	LIMIT 0
200	-3.40	PASS	LIMIT 0
260	-5.60	PASS	LIMIT 0
310	-4.40	PASS	LIMIT 0
360	-4.40	PASS	LIMIT 0
410	-4.90	PASS	LIMIT 0
460	-5.10	PASS	LIMIT 0
510	-6.70	PASS	LIMIT 0
560	-7.50	PASS	LIMIT 0
610	-9.00	PASS	LIMIT 0
660	-10.70	PASS	LIMIT 0
710	-13.00	PASS	LIMIT 0
770	-15.90	PASS	LIMIT 0
820	-16.20	PASS	LIMIT 0
870	-16.30	PASS	LIMIT 0
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1890	-22.40	PASS	LIMIT 0
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2240	-22.80	PASS	LIMIT 0
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15860	-49.60	PASS	LIMIT -35

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17390	-52.80	PASS	LIMIT -35
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-17850	-46.80	PASS	LIMIT -35
-17900	-47.20	PASS	LIMIT -35
-17950	-45.30	PASS	LIMIT -35
-18000	-45.30	PASS	LIMIT -35
-18050	-47.50	PASS	LIMIT -35
-18100	-48.90	PASS	LIMIT -35
-18150	-46.20	PASS	LIMIT -35
-18200	-46.10	PASS	LIMIT -35
-18250	-48.10	PASS	LIMIT -35
-18310	-48.00	PASS	LIMIT -35
-18360	-47.90	PASS	LIMIT -35
-18410	-47.30	PASS	LIMIT -35
-18460	-47.30	PASS	LIMIT -35
-18510	-46.30	PASS	LIMIT -35
-18560	-45.50	PASS	LIMIT -35
-18610	-43.60	PASS	LIMIT -35
-18660	-43.60	PASS	LIMIT -35
-18710	-43.80	PASS	LIMIT -35
-18760	-44.80	PASS	LIMIT -35
-18820	-46.60	PASS	LIMIT -35
-18870	-47.30	PASS	LIMIT -35
-18920	-47.70	PASS	LIMIT -35
-18970	-48.90	PASS	LIMIT -35
-19020	-49.50	PASS	LIMIT -35
-19070	-49.00	PASS	LIMIT -35
-19120	-49.10	PASS	LIMIT -35
-19170	-47.90	PASS	LIMIT -35
-19220	-48.00	PASS	LIMIT -35
-19270	-47.20	PASS	LIMIT -35
-19330	-45.50	PASS	LIMIT -35
-19380	-45.60	PASS	LIMIT -35
-19430	-46.10	PASS	LIMIT -35
-19480	-45.70	PASS	LIMIT -35
-19530	-46.00	PASS	LIMIT -35
-19580	-49.00	PASS	LIMIT -35
-19630	-49.10	PASS	LIMIT -35
-19680	-47.50	PASS	LIMIT -35
-19730	-47.60	PASS	LIMIT -35
-19780	-48.50	PASS	LIMIT -35
-19840	-48.20	PASS	LIMIT -35
-19890	-48.50	PASS	LIMIT -35

-19940	-48.10	PASS	LIMIT -35
-19990	-48.10	PASS	LIMIT -35
-20040	-49.50	PASS	LIMIT -35
-20090	-51.30	PASS	LIMIT -35
-20140	-49.50	PASS	LIMIT -35
-20190	-49.30	PASS	LIMIT -35
-20240	-51.00	PASS	LIMIT -35
-20290	-48.90	PASS	LIMIT -35
-20350	-48.60	PASS	LIMIT -35
-20400	-49.90	PASS	LIMIT -35
-20450	-50.30	PASS	LIMIT -35
-20500	-50.80	PASS	LIMIT -35
-20550	-46.20	PASS	LIMIT -35
-20600	-45.20	PASS	LIMIT -35
-20650	-45.40	PASS	LIMIT -35
-20700	-47.50	PASS	LIMIT -35
-20750	-47.50	PASS	LIMIT -35
-20800	-46.40	PASS	LIMIT -35
-20860	-46.60	PASS	LIMIT -35
-20910	-48.10	PASS	LIMIT -35
-20960	-48.30	PASS	LIMIT -35
-21010	-49.70	PASS	LIMIT -35
-21060	-47.40	PASS	LIMIT -35
-21110	-47.50	PASS	LIMIT -35
-21160	-49.60	PASS	LIMIT -35
-21210	-49.50	PASS	LIMIT -35
-21260	-51.00	PASS	LIMIT -35
-21310	-47.50	PASS	LIMIT -35
-21370	-46.40	PASS	LIMIT -35
-21420	-46.30	PASS	LIMIT -35
-21470	-46.80	PASS	LIMIT -35
-21520	-48.70	PASS	LIMIT -35
-21570	-51.80	PASS	LIMIT -35
-21620	-51.30	PASS	LIMIT -35
-21670	-51.80	PASS	LIMIT -35
-21720	-51.50	PASS	LIMIT -35
-21770	-49.00	PASS	LIMIT -35
-21820	-48.50	PASS	LIMIT -35
-21880	-49.00	PASS	LIMIT -35
-21930	-50.90	PASS	LIMIT -35
-21980	-51.30	PASS	LIMIT -35
-22030	-49.90	PASS	LIMIT -35
-22080	-49.10	PASS	LIMIT -35
-22130	-50.10	PASS	LIMIT -35
-22180	-53.00	PASS	LIMIT -35
-22230	-53.10	PASS	LIMIT -35
-22280	-52.20	PASS	LIMIT -35
-22330	-51.80	PASS	LIMIT -35
-22390	-49.70	PASS	LIMIT -35
-22440	-49.20	PASS	LIMIT -35
-22490	-49.60	PASS	LIMIT -35
-22540	-50.70	PASS	LIMIT -35

-22590	-50.80	PASS	LIMIT -35
-22640	-52.10	PASS	LIMIT -35
-22690	-53.00	PASS	LIMIT -35
-22740	-52.10	PASS	LIMIT -35
-22790	-52.70	PASS	LIMIT -35
-22840	-53.00	PASS	LIMIT -35
-22900	-53.00	PASS	LIMIT -35
-22950	-50.20	PASS	LIMIT -35
-23000	-50.00	PASS	LIMIT -35
-23050	-51.90	PASS	LIMIT -35
-23100	-52.00	PASS	LIMIT -35
-23150	-52.10	PASS	LIMIT -35
-23200	-54.30	PASS	LIMIT -35
-23250	-54.40	PASS	LIMIT -35
-23300	-52.90	PASS	LIMIT -35
-23350	-49.70	PASS	LIMIT -35
-23400	-49.70	PASS	LIMIT -35
-23460	-50.40	PASS	LIMIT -35
-23510	-50.60	PASS	LIMIT -35
-23560	-48.80	PASS	LIMIT -35
-23610	-48.60	PASS	LIMIT -35
-23660	-50.00	PASS	LIMIT -35
-23710	-51.80	PASS	LIMIT -35
-23760	-52.30	PASS	LIMIT -35
-23810	-52.60	PASS	LIMIT -35
-23860	-49.30	PASS	LIMIT -35
-23910	-49.60	PASS	LIMIT -35
-23970	-54.60	PASS	LIMIT -35
-24020	-53.10	PASS	LIMIT -40
-24070	-54.40	PASS	LIMIT -40
-24120	-51.90	PASS	LIMIT -40
-24170	-51.10	PASS	LIMIT -40
-24220	-51.90	PASS	LIMIT -40
-24270	-51.90	PASS	LIMIT -40
-24320	-53.40	PASS	LIMIT -40
-24370	-53.90	PASS	LIMIT -40
-24420	-54.10	PASS	LIMIT -40
-24480	-54.50	PASS	LIMIT -40
-24530	-51.60	PASS	LIMIT -40
-24580	-51.90	PASS	LIMIT -40
-24630	-52.70	PASS	LIMIT -40
-24680	-52.50	PASS	LIMIT -40
-24730	-52.00	PASS	LIMIT -40
-24780	-50.20	PASS	LIMIT -40
-24830	-47.00	PASS	LIMIT -40
-24880	-47.00	PASS	LIMIT -40
-24930	-45.50	PASS	LIMIT -40
-24990	-45.10	PASS	LIMIT -40
-25040	-45.10	PASS	LIMIT -40
-25090	-46.20	PASS	LIMIT -40

CENTER FREQ PASS AT 406.02805E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-24.80
-30DB MAX VALUE FOR 7K TO 11.99K	7750	-35.70
-35DB MAX VALUE FOR 12K TO 23.99K	12650	-42.20
-40DB MAX VALUE FOR 24K TO 25K	25040	-47.10
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.70
-30DB MAX VALUE FOR -7K TO -11.99K	-7290	-34.70
-35DB MAX VALUE FOR -12K TO -23.99K	-12700	-41.10
-40DB MAX VALUE FOR -24K TO -25K	-24990	-45.10

BEACON 406 SIDEBAND PASS
 BEACON SN sn2007_12_19_02afterrepair
 TIME START 8:51am
 DATE START 12/19/2002

Pass
KAF

