

Attachment AG
Low Temperature Life Test Results

DO204 Low Temperature Life test 2.3.2.1 and Self test function at Low Temperature 2.3.2.6 DO-183 2.3.1.1 Low temperature life test

- 1) OBTAIN dme DOC Y1-02-1053, Y1-02-1054 and DO-204,183 documents FOR REFERENCE AND SET UP.
- 2) CONNECT EQUIPMENT UP AS INDICATED IN PARAGRAPH 3.1 of Y1-02-1053
- 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 LOW TEMPERATURE LIFE TEST setup using a fresh pre-conditioned discharged battery in the beacon.
- 5) Program Temperature chamber LOW temperature profile as indicated by DO204 para 2.3.2.1 except start from from 23 degree C and ramp down 30 minutes to -55 before starting the 3hr -55 degree soak.
- 6) Set up thermal data acquisition unit with separate PC to monitor chamber temperature and beacon temperature. Program it for at least 50 second intervals but don't have it start acquiring data yet.
- 7) Activate the "burn_in_test_select2.vi" software on PC#1 with all of the test annunciation points turned on with a 59 minute interval and a low temperature file name for the beacon in question. Do not start the acquire process yet.
- 8) 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.
- 9) Activate the chamber test program profile and activate the thermal data acquisition unit to start the test.
- 10) After the -55 degree C 3hr soak and the beacon is then allowed to stabilize at -20 degree C, perform Y1-02-1054 to verify self test and that unit meets operational characteristics of DO-183 after 5 minutes. Continue to perform Y1-02-1053 tests after 15 minutes of warm up utilizing "burn_in_test_select2.vi" on the PC#1 to collect most of the data needed by the Y1-02-1053 data sheet. Run the "beaconminiexec.exe" software after to collect the 406 modulation information for the data sheet.
- 11) Perform paragraphs 4.1.8, and 4.2.3, through 4.2.7 to finish up the data sheet.
- 12) Continue running the "burn_in_test_select2.vi" to collect "aliveness data" every hour to comply with the 6 hr DO204 requirement.
- 13) Stop the "burn_in_test_select2.vi" at the 23 hour point and use the 23 hour data to fill in another Y1-02-1053 and Y1-02-1054 data sheet.
- 14) Run the "beaconminiexec.exe" software after to collect the 406 modulation information for the data sheet at the 23-24 point before the 406 modulation stops.
- 15) Perform paragraphs 4.1.8, and 4.2.3, through 4.2.7 to finish up the data sheet for the 23-24 hour point.
- 16) The beacon is allowed to continue till after the 24 hour point to where the 406 modulation stops.
- 17) The "burn_in_test_select2.VI" is then restarted with a new output file name and with all but the "run_406_power" and the "run_406_sideband" test annunciation points turned on.
- 18) The data is collected every hour to check all the pertinent 121/243 signals to comply with the DO-183 6 hr requirement and to determine when the battery is exhausted to the nearest hour and determine it exceeds 50 hours.
- 19) Plot the temperature data in an Excel spreadsheet from the data acquisition unit PC for the test time interval and print all the "burn_in_test_select2.VI" data collected and the beaconminiexec.exe data collected.



Qualification Data Sheet

Date: 2/12/03	Test: COLD LIFE TEST / MELT TEST
Test Unit Description	SRB-406 ELT, PN P3-03-0041-001, revision 05, AT COLD Serial # 2007
Test Unit Configuration	Antenna "A" PN A3-06-2053-001 rev 02 SN N/A Antenna "B" PN A3-06-2053-001 rev 02 SN 0059 Digital CCA PN A3-07-0038-800 rev 07 SN 0016 RF CCA PN A3-07-0039-800 rev 07 SN 0002 Battery pack A3-03-1006-001 rev 04 SN 0301003 Lanyard PN A3-05-0099-001 rev 03.
Description of Test Method (ex: Eurocae ED-62, para x.x)	DO 204 2.3.2.6, 2.3.2.1; 00183 Y1-02-1053, 1054 2.3.1.1
Pass/Fail Criteria	DO 204 2.3.2.6, 2.3.2.1 00183 Y1-02-1053, 1054 2.3.1.1
Authorized Deviations	NONE
Test Location	DME ORLANDO
Purchase Order #	N/A
Test Equipment Arrangement (if necessary)	SEE ATTACHED DATA SHEETS
List of Calibrated Equipment	SEE DATA SHEETS
DME Test Engineer	K. KOTYLK
DME QA Representative	NONE
Lab Test Engineer/Technician	NONE
Other Witness	NONE
Test Unit Authorized Deviations	NONE
Test Data	SEE ATTACHED DATA SHEETS FOR DATA COLLECTED. UNIT PASSED @ 54HR 55MIN BEFORE BATTERY DIED. REQUIREMENT IS 50HR WITH PRE- DISCHARGED BATTERY. N/A
Data Reduction/Calculations	SEE ATTACHED DATA
Test Deviations	NONE
Test Performed Prior to this Test	TEMP GRADIENT
Next Test to be Performed	ATP
Test Engineer Signature	K. Kotylk
QA Signature	N/A
Other Witness Signature	N/A
NMR #	N/A
Notes	NONE

COLD
SELF TEST
CDO204-2.3.2.6

COLD LIFE TEST

Y1-02-1054 Rev. -
September 12, 2002

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

-20°C
DO204-2.3.2.1
DO183-2.3.1.1

Tested By:

[Signature]

DATE:

2/12/03

INITIAL DATA
AT START UP
FOR ACTIVATION AND

Beacon P3-03-0041-001

Serial Number:

2007

12/1/243

5 MIN TEST.

ALIVE TEST

SELF TEST @

9:15 PM

START BEACON 9:15 PM
2/12/03

Test Equipment	Model	Serial No. or Control No.	Cal. Due
SPECTRA	HP8568B	OR3063	9/18/03
GENERATOR	HP8656B	OR1091	5/18/03
MODAWA #1	HP8901B	OR1093	2/30/03
SLOPE	HP54510B	OR0627	8/29/03
MODAWA #2 (FOR SENSE)	HP8901B	31N 3704A05771	12/11/03
POWER SENSOR	HP8481A	OR1092	2/29/03

ANT #2 91N0099



[Signature]



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>0.3</u> dBm	+0.5	P F
3.5	HP8656 setting for 406.028 MHZ	-0.5	<u>0.3</u> dBm	+0.5	P F

ORL
SQ01
DME

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 ANTENNA IN WATER, 1/4	N/A	P F
4.1.4	* Beacon goes off when magnet is installed.	N/A	<u>N/A</u> chk	N/A	P F
4.1.5	* Beacon transmits when A antenna is touched.	N/A	<u>N/A</u> chk	N/A	P F
4.1.6	* Beacon goes off when magnet is installed.	N/A	<u>N/A</u> chk	N/A	P F

ORL
SQ01
DME

* ANT A CONNECTED TO TEST
EQUIPMENT, ANT B = 91N0039

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>18.3</u> dBm	N/A	<u>P</u> F
	Antenna gain including feeder and mismatch losses for 121.5 Mhz obtained from antenna field tests.	N/A	<u>-1.0</u> dB	N/A	N/A
	Peak power + antenna gain= EIRP	20dbm	<u>17.3</u> dBm	N/A	<u>P</u> F
4.2.2	Frequency 121.5 MHz $\pm$ 6 kHz	121.494	<u>121.002</u> MHz	121.506	<u>P</u> F
4.2.3	Peak Power at 243 MHZ	17.0dBm	<u>19.7</u> dBm	N/A	<u>P</u> F
	Antenna gain including feeder and mismatch losses for 243 Mhz obtained from antenna field tests.	N/A	<u>3.7</u> dB	N/A	N/A
	Peak power + antenna gain= EIRP	20dbm	<u>23.9</u> dBm	N/A	<u>P</u> F
4.2.4	Frequency 243 MHz $\pm$ 12 kHz	242.988	<u>243.0052</u> MHz	243.012	<u>P</u> F
4.2.5	121.5 Mhz Modulation depth	N/A	<u>-59.2</u> dBc	-22dBc	<u>P</u> F
4.2.6	121.5 /243 Mhz Duty cycle	45%	<u>61.6</u> %	67%	<u>P</u> F
4.2.7	Max audio frequency	N/A	<u>1496</u> Hz	1600	<u>P</u> F
	Min audio frequency	300	<u>357</u> Hz	N/A	<u>P</u> F
	Max - Min	<u>N/A</u> 700	<u>1139</u> Hz	<u>700</u> N/A	<u>P</u> F
4.2.8	Sweeps in 10 seconds	20	<u>70</u> count	40	<u>P</u> F

ANTENNA PORT CONNECTED TO
TEST EQUIPMENT

6830 N.W. 16th Terrace, Fort Lauderdale, FL 33309
(954) 975-2100 *Fax (954) 979-3313 * www.dmecorp.com



ISO 9001
CERTIFIED



FM 38229

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	76.5 dBm	N/A	(P) F
	Antenna gain including feeder and mismatch losses for 406.028 Mhz obtained from antenna field tests.	N/A	0.15 dB	N/A	N/A
	Peak power + antenna gain= EIRP	32.0dbm EIRP	36.65 dBm	N/A	(P) F
4.3.2	Frequency Accuracy 406.028 MHz $\pm$ 1 kHz	406.0270	406.02820 MHz	406.0290	(P) F

*AUT A CONNECTED TO TEST EQUIPMENT



(P)



BEACON SN 2007coldlifetest
TIME START 9:25:46 PM
DATE START 2/12/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.70

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.20

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.16239E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.57119E+02
AUDIO FREQ HIGH PASS AT +1.49657E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5030E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	26800	-34.80
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-27.80
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25500	-35.60

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	13100	-29.00
-30DB MAX VALUE FOR	25.0K TO 44.00K	26800	-33.90
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-13700	-29.00
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25100	-34.20

DO 204-2.3.2.1
DO 183-2.3.1.1

COLD LIFE TEST

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

TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

Tested By:

ALH

DATE:

2/12/03

RF PCB

(A3-07-0039) Serial Number:

0002

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

0010

INITIAL DATA AT
START UP AFTER AUVS
NBSS

9/11/2007

@ 9:25 PM
2/12/03

Test Equipment	Model	Serial No. or Control No.	Cal. Due
SPECAV	HP 568B	OR3063	9/18/03
GENERATOR	HP 8656B	OR1091	5/18/03
MODANA #1	HP 8901B	OR1093	2/30/03
SLOPE	HP 54510B	OR0627	8/29/03
TIME+FREQ AWA	HP 5371A	2842A0070	6/11/03
MODANA #2 (FOR SLOPE)	HP 8901B	S/N 3704A0571	2/11/03
POWER SENSOR	HP 8481A	OR1092	2/29/03



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>0.7</u> dBm	+0.5	P F
3.4	HP8656 setting for 243 MHZ	-0.5	<u>0.7</u> dBm	+0.5	P F
3.5	HP8656 setting for 406.028 MHZ	-0.5	<u>0.3</u> dBm	+0.5	P F

ORL SC01 DME
KP

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>18.1</u> dBm	N/A	P F
	UUT current during 121.5/243 Mhz broadcast	N/A	<u>N/A</u> mA	100mA	P F
4.1.2	Frequency 121.5 MHZ $\pm$ 6 kHz	121.494	<u>121.5027</u> MHz	121.506	P F
4.1.3	121.5 MHz Bandwidth $\geq$ +12.5 kHz	N/A	<u>-28.7</u> dBc	-25dBc	P F
	121.5 MHz Bandwidth $\leq$ -12.5 kHz	N/A	<u>-34.1</u> dBc	-25dBc	P F
	121.5 MHz Bandwidth $\geq$ +25 kHz	N/A	<u>-29.0</u> dBc	-30dBc	P F
	121.5 MHz Bandwidth $\leq$ -25 kHz	N/A	<u>-34.0</u> dBc	-30dBc	P F
4.1.4	Peak Power at 243 MHZ	17.0dBm	<u>19.6</u> dBm	N/A	P F
4.1.5	Frequency 243 MHZ $\pm$ 12 kHz	242.988	<u>243.0091</u> MHz	243.012	P F
4.1.6	243 MHz Bandwidth $\geq$ +12.5 kHz	N/A	<u>-29.2</u> dBc	-25dBc	P F
	243 MHz Bandwidth $\leq$ -12.5 kHz	N/A	<u>-28.6</u> dBc	-25dBc	P F
	243 MHz Bandwidth $\geq$ +25 kHz	N/A	<u>-35.2</u> dBc	-30dBc	P F
	243 MHz Bandwidth $\leq$ -25 kHz	N/A	<u>-35.1</u> dBc	-30dBc	P F
4.1.7	121.5 Mhz Modulation depth	N/A	<u>-59</u> dBc	-22dBc	P F
4.1.8	364.5 MHz harmonic	N/A	<u>-48.3</u> dBc	-30dBc	P F
	486 MHz harmonic	N/A	<u>-51.9</u> dBc	-30dBc	P F
4.1.9	121.5 /243 Mhz Duty cycle	45%	<u>61.95</u> %	67%	P F

* ON BATTERY NO CURRENT MEASURED

ORL SC01 DME
KP

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	36.5 dBm	39.0dbm	P F
	UUT peak current during 406 Mhz broadcast	N/A	1.7A A	1.7A	P F
4.2.2	406.028 MHz Bandwidth $\geq +12.0$ kHz	N/A	-42.5 dBc	-30dBc	P F
	406.028 MHz Bandwidth ≤ -12.0 kHz	N/A	-41.6 dBc	-30dBc	P F
	406.028 MHz Bandwidth $\geq +24$ kHz	N/A	-53.6 dBc	-40dBc	P F
	406.028 MHz Bandwidth ≤ -24 kHz	N/A	-48.8 dBc	-40dBc	P F
4.2.3	812 MHz harmonic	N/A	48.7 dBc	-50dBc	P F
4.2.4	406 pulse falling (starting edge) time	0.3	0.883 msec	5.0	P F
4.2.5	406 pulse rising (stopping edge) time	0.3	0.160 msec	5.0	P F
4.2.6	Total transmission pulse time measured with diode detector.	435.6	441.4 msec	444.4	P F
4.2.7	Total transmission time burst spacing measured with diode detector.	47.5	49.8 sec	52.5	P F
4.2.9	Phase modulation +1.10 radian peak	1.00	1.075 Rad	1.20	P F
4.2.10	Phase modulation -1.10 radian peak	-1.20	-1.139 Rad	-1.00	P F
4.2.11	Phase modulation rise time	50usec	176.2 usec	250 usec	P F
4.2.12	Phase modulation fall time	50usec	169.8 usec	250 usec	P F
4.2.13	Phase modulation rise/fall symmetry	N/A	0.02 ratio	0.05	P F
4.2.14	Modulation Bit rate 400 bits/sec	396.0	403.3 Hz	404.0	P F
4.2.15	CW preamble time	158.4	160.8 msec	161.6	P F
4.2.16	NOAA HEX ID ID/SN matches programmed in	N/A	12060701440401	N/A	P F
4.2.17	Frequency Accuracy 406.028 MHz ± 1 kHz	406.0270	406.02796 MHz	406.0290	P F
4.2.18	Short term stability	-2e-9	28180-12 n/a	2e-9	P F
4.2.19	medium term residual variation	-3e-9	117.610-12 n/a	3e-9	P F
4.2.20	medium term slope	-1e-9	-2780-12 n/a	1e-9	P F

ON BATTERY NO CURRENT MEASURED



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	N/A chk	N/A	P F
4.3.3	Beacon passes self test and goes off	N/A	N/A chk	N/A	P F
4.3.4	Beacon transmits when load is connected to B antenna	N/A	N/A chk	N/A	P F
4.3.6 (-002 version only)	Peak Power at 121.5 MHZ	17.0dBm	N/A dBm	N/A	P F
4.3.7 (-002 version only)	Peak Power at 243 MHZ	17.0dBm	N/A dBm	N/A	P F
4.3.8 (-002 version only)	Peak Power at 406.028 MHZ	35.0dBm	N/A dBm	39.0dBm	P F

PERFORMED IN ~~A3-03-0~~
X-02-1054 PROCEEDS
WITH ANT.



(10)

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)			
4.4.5	12 volt gain settings for 406 power (Q3 location)			
4.4.6	406 phase modulation +1.1 radian (Q5 location)			
	406 phase modulation 0.0 radian (Q5 location)			
	406 phase modulation -1.1 radian (Q5 location)			
4.4.7	406 gain A (Q7 location)			
4.4.8	406 gain B (Q9 location)			
Para.	Description	N/A	Time in msec	N/A
4.4.9	Preamble time. (Q11 location)	N/A		N/A
Para.	Description	Over voltage mode	Nominal voltage	Undervoltage mode
4.4.10	406 gain B offset (Q13 location)			
Para.	Description	Over voltage mode	N/A	Undervoltage mode
4.4.11	Battery threshold (Q15 location)		N/A	

* N/A UNIT IN COMPASS
ON BATTERY

(AP)

Test Start 2/12/03, 9:48 PM

---MODULATION TEST---

PosPhase

UL = 1.2000000

LL = 1.0000000

Results = 1.0757111

NegPhase

UL = -1.0000000

LL = -1.2000000

Results = -1.1399515

Test Status: PASSED

---MOD_SYM TEST---

ModRise

UL = 0.0002500

LL = 0.0000500

Results = 0.0001762

ModFall

UL = 0.0002500

LL = 0.0000500

Results = 0.0001698

ModSym

UL = 0.0500000

LL = N/A

Results = 0.0203058

Test Status: PASSED

---DECODER TEST---

Baud

UL = 404.0000000

LL = 396.0000000

Results = 403.3037829

Preamble

UL = 0.161600

LL = 0.158400

Results = 0.160873

ID/SN: ADDC07C01440401

Test Status: PASSED

---FREQUENCY TEST---

TAN 9/10/00
TD

A3-07-1032

DATA 9/10/00

DATA ~ 15 MIN AFTER

START UP

MAH

ORL
5001
DME

RP

MeanFreq

UL = 406.0290000E+6

LL = 406.0270000E+6

Results = 406.0279616E+6

ShortTerm

UL = 2.0000000E-9

LL = -2.0000000E-9

Results = 287.3665181E-12

MediumTerm

UL = 3.0000000E-9

LL = -3.0000000E-9

Results = 117.0641766E-12

MeanSlope

UL = 1.0000000E-9

LL = -1.0000000E-9

Results = -27.0068947E-12

Test Status: PASSED

Test Finished 2/12/03, 10:05 PM

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-24.20
-30DB MAX VALUE FOR 7K TO 11.99K	7390	-35.20
-35DB MAX VALUE FOR 12K TO 23.99K	12340	-42.70
-40DB MAX VALUE FOR 24K TO 25K	24730	-53.40
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.40
-30DB MAX VALUE FOR -7K TO -11.99K	-7800	-35.00
-35DB MAX VALUE FOR -12K TO -23.99K	-12700	-41.90
-40DB MAX VALUE FOR -24K TO -25K	-24370	-51.80

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 4:01:20 AM
DATE START 2/13/03

ALIVE TEST

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.20

AT 6HRS

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.70

2 4 AM. PASS

1/14

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.60

ORL
5001
DME

KE

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.10

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.16034E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.62312E+02
AUDIO FREQ HIGH PASS AT +1.49490E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12600	-29.20
-30DB MAX VALUE FOR 25.0K TO 44.00K	27000	-35.40
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12600	-28.70
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25200	-35.90

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0053E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	14400	-30.00
-30DB MAX VALUE FOR 25.0K TO 44.00K	26200	-35.60
-25DB MAX VALUE FOR -12.5K TO -24.99K	-14600	-30.00

1 PASS 1/14

-30DB MAX VALUE FOR -25.0K TO -44.00K -26900 -35.10

BEACON 406 SIDEBAND PASS

CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K 3010 -24.50

-30DB MAX VALUE FOR 7K TO 11.99K 7040 -34.50

-35DB MAX VALUE FOR 12K TO 23.99K 12240 -42.10

-40DB MAX VALUE FOR 24K TO 25K 24020 -53.90

-20DB MAX VALUE FOR -3K TO -6.99K -3010 -25.10

-30DB MAX VALUE FOR -7K TO -11.99K -7040 -34.40

-35DB MAX VALUE FOR -12K TO -23.99K -12030 -41.60

-40DB MAX VALUE FOR -24K TO -25K -24320 -53.40

PASS
ON
SC01
DMS
RE

BEACON SN 2007coldlifetestfirst24hrs with 406

TIME START 5:00:15 AM

DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS

406 POWER PASS AT 36.60

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.30

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.22613E-01

AUDIO FREQ PASS

AUDIO FREQ LOW PASS AT +3.28280E+02

AUDIO FREQ HIGH PASS AT +1.56135E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5025E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 13800 -27.30

-30DB MAX VALUE FOR 25.0K TO 44.00K 25000 -33.60

-25DB MAX VALUE FOR -12.5K TO -24.99K -12500 -27.10

-30DB MAX VALUE FOR -25.0K TO -44.00K -25100 -33.80

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 12500 -29.30

-30DB MAX VALUE FOR 25.0K TO 44.00K 26900 -34.90
-25DB MAX VALUE FOR -12.5K TO -24.99K -12900 -29.20
-30DB MAX VALUE FOR -25.0K TO -44.00K -28000 -36.20

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K 3010 -23.90
-30DB MAX VALUE FOR 7K TO 11.99K 7040 -34.80
-35DB MAX VALUE FOR 12K TO 23.99K 12240 -42.20
-40DB MAX VALUE FOR 24K TO 25K 24220 -52.30
-20DB MAX VALUE FOR -3K TO -6.99K -3010 -25.60
-30DB MAX VALUE FOR -7K TO -11.99K -7040 -34.40
-35DB MAX VALUE FOR -12K TO -23.99K -12700 -41.90
-40DB MAX VALUE FOR -24K TO -25K -24020 -53.30

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 5:59:42 AM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.60

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.10

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.31141E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.56977E+02
AUDIO FREQ HIGH PASS AT +1.49002E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 12700 -29.10
-30DB MAX VALUE FOR 25.0K TO 44.00K 25000 -35.00
-25DB MAX VALUE FOR -12.5K TO -24.99K -12500 -30.70
-30DB MAX VALUE FOR -25.0K TO -44.00K -25000 -35.90

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0051E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 12500 -29.20
-30DB MAX VALUE FOR 25.0K TO 44.00K 26200 -35.00
-25DB MAX VALUE FOR -12.5K TO -24.99K -12500 -28.70
-30DB MAX VALUE FOR -25.0K TO -44.00K -27200 -36.10

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K 3010 -24.90
-30DB MAX VALUE FOR 7K TO 11.99K 7040 -34.40
-35DB MAX VALUE FOR 12K TO 23.99K 12700 -42.10
-40DB MAX VALUE FOR 24K TO 25K 24990 -52.30
-20DB MAX VALUE FOR -3K TO -6.99K -3010 -25.10
-30DB MAX VALUE FOR -7K TO -11.99K -7040 -34.10
-35DB MAX VALUE FOR -12K TO -23.99K -12750 -41.70
-40DB MAX VALUE FOR -24K TO -25K -24320 -51.50

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 6:58:27 AM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.70

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -51.90

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.23278E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.57030E+02
AUDIO FREQ HIGH PASS AT +1.50428E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5028E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 15900 -28.90
-30DB MAX VALUE FOR 25.0K TO 44.00K 25300 -34.30
-25DB MAX VALUE FOR -12.5K TO -24.99K -13900 -28.90
-30DB MAX VALUE FOR -25.0K TO -44.00K -29700 -34.50

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500	-29.60
-30DB MAX VALUE FOR 25.0K TO 44.00K	27000	-34.90
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-28.80
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000	-35.30

BEACON 406 SIDEBAND PASS

CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-24.20
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-34.60
-35DB MAX VALUE FOR 12K TO 23.99K	13460	-42.80
-40DB MAX VALUE FOR 24K TO 25K	24730	-53.60
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-24.90
-30DB MAX VALUE FOR -7K TO -11.99K	-7040	-34.40
-35DB MAX VALUE FOR -12K TO -23.99K	-12240	-41.60
-40DB MAX VALUE FOR -24K TO -25K	-24730	-52.60

BEACON SN 2007coldlifetestfirst24hrs with 406

TIME START 7:57:53 AM

DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS

406 POWER PASS AT 36.70

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.50

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -51.90

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.18928E-01

AUDIO FREQ PASS

AUDIO FREQ LOW PASS AT +3.35554E+02

AUDIO FREQ HIGH PASS AT +1.49849E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5027E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500	-29.10
-30DB MAX VALUE FOR 25.0K TO 44.00K	26700	-35.40
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12700	-28.80

-30DB MAX VALUE FOR -25.0K TO -44.00K -27800 -36.10

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 13600 -28.60
-30DB MAX VALUE FOR 25.0K TO 44.00K 27300 -33.50
-25DB MAX VALUE FOR -12.5K TO -24.99K -12500 -29.20
-30DB MAX VALUE FOR -25.0K TO -44.00K -25400 -34.50

BEACON 406 SIDEBAND PASS

CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K 3010 -24.00
-30DB MAX VALUE FOR 7K TO 11.99K 7850 -35.90
-35DB MAX VALUE FOR 12K TO 23.99K 13050 -42.70
-40DB MAX VALUE FOR 24K TO 25K 24730 -53.60
-20DB MAX VALUE FOR -3K TO -6.99K -3010 -25.30
-30DB MAX VALUE FOR -7K TO -11.99K -7040 -34.50
-35DB MAX VALUE FOR -12K TO -23.99K -12190 -41.60
-40DB MAX VALUE FOR -24K TO -25K -24020 -53.50

BEACON SN 2007coldlifetestfirst24hrs with 406

TIME START 8:57:17 AM

DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.80

BEACON 406 OUTPUT POWER PASS

406 POWER PASS AT 36.60

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.20

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -51.90

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.23075E-01

AUDIO FREQ PASS

AUDIO FREQ LOW PASS AT +3.64590E+02

AUDIO FREQ HIGH PASS AT +1.58010E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5027E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 12600 -28.30

-30DB MAX VALUE FOR 25.0K TO 44.00K 25800 -33.60
-25DB MAX VALUE FOR -12.5K TO -24.99K -12500 -27.20
-30DB MAX VALUE FOR -25.0K TO -44.00K -26600 -35.20

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0051E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 12700 -28.10
-30DB MAX VALUE FOR 25.0K TO 44.00K 26300 -33.40
-25DB MAX VALUE FOR -12.5K TO -24.99K -12500 -27.10
-30DB MAX VALUE FOR -25.0K TO -44.00K -25300 -34.40

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K 3010 -24.50
-30DB MAX VALUE FOR 7K TO 11.99K 7040 -34.90
-35DB MAX VALUE FOR 12K TO 23.99K 12290 -42.10
-40DB MAX VALUE FOR 24K TO 25K 24170 -53.80
-20DB MAX VALUE FOR -3K TO -6.99K -3010 -25.40
-30DB MAX VALUE FOR -7K TO -11.99K -7040 -34.20
-35DB MAX VALUE FOR -12K TO -23.99K -12290 -41.80
-40DB MAX VALUE FOR -24K TO -25K -24270 -52.90

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 9:56:41 AM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.60

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.20267E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.37871E+02
AUDIO FREQ HIGH PASS AT +1.48882E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5028E6

ALIVE WEAS AT
12HRS
~ 10AM PASS
KHH
ORL
S001
DME
KHH

9
-25DB MAX VALUE FOR 12.5K TO 24.99K 13200 -27.20
-30DB MAX VALUE FOR 25.0K TO 44.00K 25400 -33.50
-25DB MAX VALUE FOR -12.5K TO -24.99K -12800 -26.20
-30DB MAX VALUE FOR -25.0K TO -44.00K -26900 -33.60

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0051E6

-25DB MAX VALUE FOR 12.5K TO 24.99K 13200 -28.80
-30DB MAX VALUE FOR 25.0K TO 44.00K 25200 -34.70
-25DB MAX VALUE FOR -12.5K TO -24.99K -12700 -28.10
-30DB MAX VALUE FOR -25.0K TO -44.00K -26300 -34.20

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K 3010 -24.20
-30DB MAX VALUE FOR 7K TO 11.99K 7040 -34.50
-35DB MAX VALUE FOR 12K TO 23.99K 12290 -42.30
-40DB MAX VALUE FOR 24K TO 25K 24730 -52.60
-20DB MAX VALUE FOR -3K TO -6.99K -3010 -24.90
-30DB MAX VALUE FOR -7K TO -11.99K -7040 -34.30
-35DB MAX VALUE FOR -12K TO -23.99K -12030 -42.20
-40DB MAX VALUE FOR -24K TO -25K -24020 -53.10

12HR
PASS R/H.

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 10:55:29 AM
DATE START 2/13/03



BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.60

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.30

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.22105E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.56481E+02
AUDIO FREQ HIGH PASS AT +1.49689E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5028E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	16000	-28.80
-30DB MAX VALUE FOR 25.0K TO 44.00K	26400	-33.90
-25DB MAX VALUE FOR -12.5K TO -24.99K	-14400	-28.70
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25900	-34.20

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	13700	-27.60
-30DB MAX VALUE FOR 25.0K TO 44.00K	27600	-32.60
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-26.80
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000	-33.20

BEACON 406 SIDEBAND PASS

CENTER FREQ PASS AT 406.02805E6

-20DB MAX VALUE FOR 3K TO 6.99K	3110	-24.10
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-33.40
-35DB MAX VALUE FOR 12K TO 23.99K	12290	-40.70
-40DB MAX VALUE FOR 24K TO 25K	24880	-53.20
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.00
-30DB MAX VALUE FOR -7K TO -11.99K	-7040	-33.70
-35DB MAX VALUE FOR -12K TO -23.99K	-12290	-40.40
-40DB MAX VALUE FOR -24K TO -25K	-25090	-51.10

BEACON SN 2007coldlifetestfirst24hrswith406

TIME START 11:54:51 AM

DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS

406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.23715E-01

AUDIO FREQ PASS

AUDIO FREQ LOW PASS AT +3.28710E+02

AUDIO FREQ HIGH PASS AT +1.58737E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5027E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12700	-27.20
-30DB MAX VALUE FOR	25.0K TO 44.00K	31000	-33.40
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-26.00
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-29500	-33.00

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0048E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-26.60
-30DB MAX VALUE FOR	25.0K TO 44.00K	26200	-33.10
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.00
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-27900	-33.80

BEACON 406 SIDEBAND PASS

CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR	3K TO 6.99K	3010	-24.10
-30DB MAX VALUE FOR	7K TO 11.99K	7040	-34.70
-35DB MAX VALUE FOR	12K TO 23.99K	12290	-42.30
-40DB MAX VALUE FOR	24K TO 25K	24830	-54.20
-20DB MAX VALUE FOR	-3K TO -6.99K	-3010	-25.50
-30DB MAX VALUE FOR	-7K TO -11.99K	-7040	-35.50
-35DB MAX VALUE FOR	-12K TO -23.99K	-12390	-41.50
-40DB MAX VALUE FOR	-24K TO -25K	-24680	-52.20

BEACON SN 2007coldlifetestfirst24hrswith406

TIME START 12:54:13 PM

DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS

406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.50

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.23551E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.36524E+02
AUDIO FREQ HIGH PASS AT +1.56272E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	13300	-28.80
-30DB MAX VALUE FOR 25.0K TO 44.00K	28200	-34.50
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12600	-27.90
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25400	-34.60

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	13000	-28.80
-30DB MAX VALUE FOR 25.0K TO 44.00K	25500	-34.40
-25DB MAX VALUE FOR -12.5K TO -24.99K	-13200	-29.20
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000	-34.20

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02815E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-25.60
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-36.00
-35DB MAX VALUE FOR 12K TO 23.99K	12240	-42.70
-40DB MAX VALUE FOR 24K TO 25K	24630	-53.80
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-24.40
-30DB MAX VALUE FOR -7K TO -11.99K	-7040	-34.00
-35DB MAX VALUE FOR -12K TO -23.99K	-12030	-41.30
-40DB MAX VALUE FOR -24K TO -25K	-24420	-53.10

BEACON SN 2007coldlifetestfirst24hrs with406
TIME START 1:53:14 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.20

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.23994E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.37844E+02
AUDIO FREQ HIGH PASS AT +1.47140E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5024E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	14500	-27.10
-30DB MAX VALUE FOR 25.0K TO 44.00K	25400	-32.90
-25DB MAX VALUE FOR -12.5K TO -24.99K	-13900	-27.20
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25500	-32.70

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	13600	-27.80
-30DB MAX VALUE FOR 25.0K TO 44.00K	25300	-33.60
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-26.80
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25900	-34.00

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-23.90
-30DB MAX VALUE FOR 7K TO 11.99K	7240	-35.00
-35DB MAX VALUE FOR 12K TO 23.99K	12290	-41.20
-40DB MAX VALUE FOR 24K TO 25K	24730	-53.70
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.20
-30DB MAX VALUE FOR -7K TO -11.99K	-7040	-34.40
-35DB MAX VALUE FOR -12K TO -23.99K	-12290	-41.80
-40DB MAX VALUE FOR -24K TO -25K	-24020	-51.70

BEACON SN 2007coldlifetestfirst24hrs with 406
TIME START 2:52:06 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.20

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.60

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.00

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.21938E-01

AUDIO FREQ PASS

AUDIO FREQ LOW PASS AT +3.35559E+02
AUDIO FREQ HIGH PASS AT +1.50883E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	13900	-27.20
-30DB MAX VALUE FOR 25.0K TO 44.00K	25700	-32.90
-25DB MAX VALUE FOR -12.5K TO -24.99K	-14300	-27.30
-30DB MAX VALUE FOR -25.0K TO -44.00K	-26100	-32.80

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	14200	-27.70
-30DB MAX VALUE FOR 25.0K TO 44.00K	27500	-32.70
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12600	-26.90
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000	-34.20

BEACON 406 SIDEBAND PASS

CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-24.00
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-34.20
-35DB MAX VALUE FOR 12K TO 23.99K	12650	-42.90
-40DB MAX VALUE FOR 24K TO 25K	24020	-50.70
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.30
-30DB MAX VALUE FOR -7K TO -11.99K	-7040	-34.20
-35DB MAX VALUE FOR -12K TO -23.99K	-12030	-41.90
-40DB MAX VALUE FOR -24K TO -25K	-24220	-53.10

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 3:51:30 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.20

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.60

BEACON 406 OUTPUT POWER PASS

406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.10

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -51.90

ALIVENESS
TEST
AT 18HRS
2 4 PM PASS
BLVH

ORL
SQ01
DME

RP

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.21706E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.57057E+02
AUDIO FREQ HIGH PASS AT +1.59522E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	16400	-28.60
-30DB MAX VALUE FOR 25.0K TO 44.00K	27300	-33.30
-25DB MAX VALUE FOR -12.5K TO -24.99K	-14200	-28.60
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25700	-34.20

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12900	-29.00
-30DB MAX VALUE FOR 25.0K TO 44.00K	25200	-34.80
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12600	-29.60
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25100	-34.70

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3670	-27.10
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-34.50
-35DB MAX VALUE FOR 12K TO 23.99K	12240	-41.80
-40DB MAX VALUE FOR 24K TO 25K	24020	-54.10
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.50
-30DB MAX VALUE FOR -7K TO -11.99K	-7750	-35.20
-35DB MAX VALUE FOR -12K TO -23.99K	-12030	-42.60
-40DB MAX VALUE FOR -24K TO -25K	-24320	-53.40

PASS 18HRS
NVA

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 4:50:54 PM
DATE START 2/13/03

OK
SQ01
DME
KE

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.10

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.60

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.20

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -51.90

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.21754E-01

AUDIO FREQ PASS

AUDIO FREQ LOW PASS AT +3.56678E+02

AUDIO FREQ HIGH PASS AT +1.49775E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5025E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12900	-27.30
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-33.50
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-26.30
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-29900	-33.10

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-29.30
-30DB MAX VALUE FOR	25.0K TO 44.00K	27000	-35.40
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-30.30
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25200	-35.70

BEACON 406 SIDEBAND PASS

CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR	3K TO 6.99K	3010	-24.20
-30DB MAX VALUE FOR	7K TO 11.99K	7040	-34.40
-35DB MAX VALUE FOR	12K TO 23.99K	12030	-41.70
-40DB MAX VALUE FOR	24K TO 25K	24120	-54.30
-20DB MAX VALUE FOR	-3K TO -6.99K	-3010	-25.10
-30DB MAX VALUE FOR	-7K TO -11.99K	-7090	-35.00
-35DB MAX VALUE FOR	-12K TO -23.99K	-12340	-42.00
-40DB MAX VALUE FOR	-24K TO -25K	-24320	-53.90

BEACON SN 2007coldlifetestfirst24hrswith406

TIME START 5:50:20 PM

DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.10

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.70

BEACON 406 OUTPUT POWER PASS

406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.10

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.18193E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.62319E+02
AUDIO FREQ HIGH PASS AT +1.48836E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-29.60
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-35.60
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-30.90
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26600	-35.80

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	16500	-28.70
-30DB MAX VALUE FOR	25.0K TO 44.00K	25700	-33.80
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.20
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26900	-33.50

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR	3K TO 6.99K	3010	-23.90
-30DB MAX VALUE FOR	7K TO 11.99K	7040	-35.20
-35DB MAX VALUE FOR	12K TO 23.99K	12290	-41.90
-40DB MAX VALUE FOR	24K TO 25K	24930	-53.80
-20DB MAX VALUE FOR	-3K TO -6.99K	-3010	-24.90
-30DB MAX VALUE FOR	-7K TO -11.99K	-7040	-33.90
-35DB MAX VALUE FOR	-12K TO -23.99K	-12090	-41.40
-40DB MAX VALUE FOR	-24K TO -25K	-24780	-52.90

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 6:48:51 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.10

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.60

BEACON 406 OUTPUT POWER PASS
406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.10

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -51.90

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.18650E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.62310E+02
AUDIO FREQ HIGH PASS AT +1.51646E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5027E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500	-28.40
-30DB MAX VALUE FOR 25.0K TO 44.00K	27100	-32.70
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-27.60
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000	-33.10

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0052E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12800	-29.00
-30DB MAX VALUE FOR 25.0K TO 44.00K	25300	-34.90
-25DB MAX VALUE FOR -12.5K TO -24.99K	-13200	-29.50
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000	-34.60

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-24.20
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-34.40
-35DB MAX VALUE FOR 12K TO 23.99K	12190	-42.30
-40DB MAX VALUE FOR 24K TO 25K	24020	-52.90
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.30
-30DB MAX VALUE FOR -7K TO -11.99K	-7040	-34.10
-35DB MAX VALUE FOR -12K TO -23.99K	-12800	-41.90
-40DB MAX VALUE FOR -24K TO -25K	-24270	-53.20

BEACON SN 2007coldlifetestfirst24hrswith406
TIME START 7:48:06 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.10

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.60

BEACON 406 OUTPUT POWER PASS

FULL
DATA COLLECTED
FOR 121/243/406 @ 23HR.
1 HOUR BEFORE 406
TURNING OFF AT
24 HRS.
TRANSCRIBED TO DATA
23 HR SHEET.



406 POWER PASS AT 36.50

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.30

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -51.90

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.24313E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.37654E+02
AUDIO FREQ HIGH PASS AT +1.48434E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5027E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12700	-29.10
-30DB MAX VALUE FOR 25.0K TO 44.00K	25000	-35.30
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-30.10
-30DB MAX VALUE FOR -25.0K TO -44.00K	-26900	-35.30

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0048E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	14100	-27.90
-30DB MAX VALUE FOR 25.0K TO 44.00K	25000	-34.10
-25DB MAX VALUE FOR -12.5K TO -24.99K	-14000	-28.00
-30DB MAX VALUE FOR -25.0K TO -44.00K	-26300	-33.00

BEACON 406 SIDEBAND PASS
CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-24.30
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-34.40
-35DB MAX VALUE FOR 12K TO 23.99K	12290	-41.70
-40DB MAX VALUE FOR 24K TO 25K	24020	-52.70
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-25.50
-30DB MAX VALUE FOR -7K TO -11.99K	-7040	-34.20
-35DB MAX VALUE FOR -12K TO -23.99K	-12800	-42.00
-40DB MAX VALUE FOR -24K TO -25K	-24070	-54.40

23HR
PASS
KH

ORL
SQ01
DME

KH

Test Start 2/13/03, 8:41 PM

---MODULATION TEST---

PosPhase

UL = 1.2000000

LL = 1.0000000

Results = 1.0761044

NegPhase

UL = -1.0000000

LL = -1.2000000

Results = -1.1384102

Test Status: PASSED

---MOD_SYM TEST---

ModRise

UL = 0.0002500

LL = 0.0000500

Results = 0.0001642

ModFall

UL = 0.0002500

LL = 0.0000500

Results = 0.0001578

ModSym

UL = 0.0500000

LL = N/A

Results = 0.0202710

Test Status: PASSED

---DECODER TEST---

Baud

UL = 404.0000000

LL = 396.0000000

Results = 403.3080466

Preamble

UL = 0.161600

LL = 0.158400

Results = 0.160873

ID/SN: ADDC07C01440401

Test Status: PASSED

---FREQUENCY TEST---

LAST DATA
THREW AT 406MHz
23 HR POW T
BEFORE 406
9 HOURS OFF,
TRANSCRIBED TO
X1-02-1053
A3-07-1032
DATA 9/10/03

HAAS
R/H

ORL
SQ01
DME

KE

MeanFreq

UL = 406.0290000E+6

LL = 406.0270000E+6

Results = 406.0279729E+6

ShortTerm

UL = 2.0000000E-9

LL = -2.0000000E-9

Results = 280.4735945E-12

MediumTerm

UL = 3.0000000E-9

LL = -3.0000000E-9

Results = 137.7377762E-12

MeanSlope

UL = 1.0000000E-9

LL = -1.0000000E-9

Results = 2.9957556E-12

Test Status: PASSED

Test Finished 2/13/03, 8:59 PM

PASS
R.H.



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

Tested By:

[Signature]

23 HR POINT

DATE:

2/13/03

Beacon P3-03-0041-001

Serial Number:

2007

Test Equipment	Model	Serial No. or Control No.	Cal. Due
SPECTRUM	HP 8568B	OR3063	9/18/03
GENERATOR	HP 8656B	OR1091	5/18/03
MODAWA #1	HP 8901B	OR1093	2/30/03
SLOPE	HP 54510B	OR0627	8/29/03
MODAWA #2 (FOR SLOPE)	HP 8901B	3704A05771	12/11/03
POWER SENSOR	HP 8481A	OR1092	2/29/03



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>0.3</u> dBm	+0.5	P F
3.5	HP8656 setting for 406.028 MHZ	-0.5	<u>0.3</u> dBm	+0.5	P F

ORL
S001
DME

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>X</u> chk	N/A	P F
4.1.2	Beacon stays off	N/A	_____ chk	N/A	P F
4.1.3	Beacon transmits when B antenna is touched.	N/A	_____ chk	N/A	P F
4.1.4	Beacon goes off when magnet is installed.	N/A	_____ chk	N/A	P F
4.1.5	Beacon transmits when A antenna is touched.	N/A	_____ chk	N/A	P F
4.1.6	Beacon goes off when magnet is installed.	N/A	_____ chk	N/A	P F

* CONTINUING TEST BEACON NOT REACTIVATED

ORL
S001
DME

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>18.1</u> dBm	N/A	<u>P</u> F
	Antenna gain including feeder and mismatch losses for 121.5 Mhz obtained from antenna field tests.	N/A	<u>-1.0</u> dB TBO	N/A	N/A
	Peak power + antenna gain= EIRP	<u>17</u> 20dbm EIRP	<u>17.1</u> dBm TBO	N/A	P F
4.2.2	Frequency 121.5 MHz $\pm$ 6 kHz	121.494	<u>121.5026</u> MHz	121.506	P F
4.2.3	Peak Power at 243 MHZ	17.0dBm	<u>19.6</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 TBO	N/A	N/A
	Peak power + antenna gain= EIRP	<u>17</u> 20dbm EIRP	<u>23.3</u> dBm TBO	N/A	P F
4.2.4	Frequency 243 MHz $\pm$ 12 kHz	242.988	<u>243.0049</u> MHz	243.012	P F
4.2.5	121.5 Mhz Modulation depth	N/A	<u>-59.4</u> dBc	-22dBc	P F
4.2.6	121.5 /243 Mhz Duty cycle	45%	<u>62.4</u> %	67%	P F
4.2.7	Max audio frequency	N/A	<u>1484</u> Hz	1600	P F
	Min audio frequency	300	<u>337</u> Hz	N/A	P F
	Max - Min	<u>N/A 700</u>	<u>1147</u> Hz	<u>700</u>	P F
4.2.8	Sweeps in 10 seconds	20	<u>30</u> count	40	P F



ISO 9001
CERTIFIED



FM 38229

6830 N.W. 16th Terrace, Fort Lauderdale, FL 33309
(954) 975-2100 *Fax (954) 979-3313 * www.dmecorp.com

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>36.5</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 TMO	N/A	N/A
	Peak power + antenna gain= EIRP	32.0dbm EIRP	<u>36.65</u> dBm TMO	N/A	P F
4.3.2	Frequency Accuracy 406.028 MHz $\pm$ 1 kHz	406.0270	<u>406.028100</u> MHz	406.0290	P F

ORL
SC001
DME

DO 204-2,3,2 1 INCLUDING 12/243
187-2,3,1,1

COLD LIFE DATA

TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

LAST DATA TAKEN @
223 HR PAWT
BEFORE 406 TURNS OFF,
SIN 2007 BEACON

Tested By: Mike M

DATE: 2/13/03

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
SPECAN	HP 568B	0R3063	9/18/03
GENERATOR	HP 8656B	0R1091	5/18/03
MODANA #1	HP 8901B	0R1093	2/30/03
SLOPE	HP 5450B	0R0627	8/29/03
TIME+FREQ ANA	HP 5371A	2842A00760	6/11/03
MODANA #2 (FOR TUNING)	HP 8901B	SIN 3704A0571	2/11/03
POWER SENSOR	HP 8481A	0R1092	2/29/03

ORL
SOOT
DME
KE

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	P F
3.4	HP8656 setting for 243 MHz	-0.5	<u>0.3</u> dBm	+0.5	P F
3.5	HP8656 setting for 406.028 MHz	-0.5	<u>0.3</u> dBm	+0.5	P F

ORL
SQ01
DME

CP

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>18.1</u> dBm	N/A	P F
	UUT current during 121.5/243 Mhz broadcast	N/A	<u>N/A</u> mA	100mA	P F
4.1.2	Frequency 121.5 MHz $\pm$ 6 kHz	121.494	<u>121.5027</u> MHz	121.506	P F
4.1.3	121.5 MHz Bandwidth $\geq$ +12.5 kHz	N/A	<u>-29.1</u> dBc	-25dBc	P F
	121.5 MHz Bandwidth $\leq$ -12.5 kHz	N/A	<u>-30.1</u> dBc	-25dBc	P F
	121.5 MHz Bandwidth $\geq$ +25 kHz	N/A	<u>-35.3</u> dBc	-30dBc	P F
	121.5 MHz Bandwidth $\leq$ -25 kHz	N/A	<u>-35.3</u> dBc	-30dBc	P F
4.1.4	Peak Power at 243 MHz	17.0dBm	<u>19.6</u> dBm	N/A	P F
4.1.5	Frequency 243 MHz $\pm$ 12 kHz	242.988	<u>243.0048</u> MHz	243.012	P F
4.1.6	243 MHz Bandwidth $\geq$ +12.5 kHz	N/A	<u>-27.9</u> dBc	-25dBc	P F
	243 MHz Bandwidth $\leq$ -12.5 kHz	N/A	<u>-28.0</u> dBc	-25dBc	P F
	243 MHz Bandwidth $\geq$ +25 kHz	N/A	<u>-34.1</u> dBc	-30dBc	P F
	243 MHz Bandwidth $\leq$ -25 kHz	N/A	<u>-33.0</u> dBc	-30dBc	P F
4.1.7	121.5 Mhz Modulation depth	N/A	<u>-59.3</u> dBc	-22dBc	P F
4.1.8	364.5 MHz harmonic	N/A	<u>-48.1</u> dBc	-30dBc	P F
	486 MHz harmonic	N/A	<u>-50.8</u> dBc	-30dBc	P F
4.1.9	121.5 /243 Mhz Duty cycle	45%	<u>62.4</u> %	67%	P F

** Beacon on MAT,*

ORL
SQ01
DME

CP

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>36.5</u> dBm	39.0dbm	P F
	UUT peak current during 406 Mhz broadcast	N/A	<u>N/A</u> A	1.7A	P F
4.2.2	406.028 MHz Bandwidth $\geq +12.0$ kHz	N/A	<u>-41.7</u> dBc	-30dBc	P F
	406.028 MHz Bandwidth ≤ -12.0 kHz	N/A	<u>-42.0</u> dBc	-30dBc	P F
	406.028 MHz Bandwidth $\geq +24$ kHz	N/A	<u>-52.7</u> dBc	-40dBc	P F
	406.028 MHz Bandwidth ≤ -24 kHz	N/A	<u>-54.4</u> dBc	-40dBc	P F
4.2.3	812 MHz harmonic	N/A	<u>-47.5</u> dBc	-30dBc	P F
4.2.4	406 pulse falling (starting edge) time	0.3	<u>0.910</u> msec	5.0	P F
4.2.5	406 pulse rising (stopping edge) time	0.3	<u>0.890</u> msec	5.0	P F
4.2.6	Total transmission pulse time measured with diode detector.	435.6	<u>441.36</u> msec	444.4	P F
4.2.7	Total transmission time burst spacing measured with diode detector.	47.5	<u>48.9</u> sec	52.5	P F
4.2.9	Phase modulation +1.10 radian peak	1.00	<u>1.0761</u> Rad	1.20	P F
4.2.10	Phase modulation -1.10 radian peak	-1.20	<u>-1.1384</u> Rad	-1.00	P F
4.2.11	Phase modulation rise time	50usec	<u>164.2</u> usec	250 usec	P F
4.2.12	Phase modulation fall time	50usec	<u>157.8</u> usec	250 usec	P F
4.2.13	Phase modulation rise/fall symmetry	N/A	<u>0.0202</u> ratio	0.05	P F
4.2.14	Modulation Bit rate 400 bits/sec	396.0	<u>403.3</u> Hz	404.0	P F
4.2.15	CW preamble time	158.4	<u>160.873</u> msec	161.6	P F
4.2.16	NOAA HEX ID ID/SN matches programmed in	N/A	<u>ADD C07C014401</u>	N/A	P F
4.2.17	Frequency Accuracy 406.028 MHz ± 1 kHz	406.0270	<u>406.0279729</u> MHz	406.0290	P F
4.2.18	Short term stability	-2e-9	<u>280 x 10⁻¹²</u> n/a	2e-9	P F
4.2.19	medium term residual variation	-3e-9	<u>137 x 10⁻¹²</u> n/a	3e-9	P F
4.2.20	medium term slope	-1e-9	<u>2.99 x 10⁻¹²</u> n/a	1e-9	P F

** NO CURRENT TESTED, ON BATTERY.*

ORL
5001
DME

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	N/A chk	N/A	P F
4.3.3	Beacon passes self test and goes off	N/A	N/A chk	N/A	P F
4.3.4	Beacon transmits when load is connected to B antenna	N/A	N/A chk	N/A	P F
4.3.6 (-002 version only)	Peak Power at 121.5 MHZ	17.0dBm	N/A dBm	N/A	P F
4.3.7 (-002 version only)	Peak Power at 243 MHZ	17.0dBm	N/A dBm	N/A	P F
4.3.8 (-002 version only)	Peak Power at 406.028 MHZ	35.0dBm	N/A dBm	39.0dBm	P F

* CONTINUING TEST BEACON NOT RESET OR
TURNED OFF FOR SELF TEST.



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)			
4.4.5	12 volt gain settings for 406 power (Q3 location)			
4.4.6	406 phase modulation +1.1 radian (Q5 location)			
	406 phase modulation 0.0 radian (Q5 location)			
	406 phase modulation -1.1 radian (Q5 location)			
4.4.7	406 gain A (Q7 location)			
4.4.8	406 gain B (Q9 location)			
Para.	Description	N/A	Time in msec	N/A
4.4.9	Preamble time. (Q11 location)	N/A		N/A
Para.	Description	Over voltage mode	Nominal voltage	Undervoltage mode
4.4.10	406 gain B offset (Q13 location)			
Para.	Description	Over voltage mode	N/A	Undervoltage mode
4.4.11	Battery threshold (Q15 location)		N/A	

* DATA NOT COLLECTED DURING LIFE TEST

(K)

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 9:30:19 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.40

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.10

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.20395E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.35547E+02
AUDIO FREQ HIGH PASS AT +1.50376E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5023E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500	-28.50
-30DB MAX VALUE FOR 25.0K TO 44.00K	26500	-35.70
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-28.40
-30DB MAX VALUE FOR -25.0K TO -44.00K	-26500	-35.60

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0046E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500	-28.40
-30DB MAX VALUE FOR 25.0K TO 44.00K	25900	-35.70
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-28.10
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25900	-35.30

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 10:29:27 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.40

-20°E

DATA COLLECTION

ON 121/243

AFTER 24 HRS



RP

PASS 25 HRS



RP

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.20

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.23380E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.72920E+02
AUDIO FREQ HIGH PASS AT +1.50870E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5024E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.60
-30DB MAX VALUE FOR	25.0K TO 44.00K	25900	-36.00
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-36.00

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	25400	-36.10
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26000	-35.80

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 11:28:40 PM
DATE START 2/13/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.10

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.25023E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.56513E+02
AUDIO FREQ HIGH PASS AT +1.51394E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5024E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.70
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-36.20
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.60
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-28200	-36.00

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0046E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.40
-30DB MAX VALUE FOR	25.0K TO 44.00K	26600	-35.90
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12600	-28.10
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26200	-35.50

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 12:27:49 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS

121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS

243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -52.20

BEACON DUTY CYCLE A PASS

DUTY CYCLE A PASS AT +6.25096E-01

AUDIO FREQ PASS

AUDIO FREQ LOW PASS AT +3.56351E+02

AUDIO FREQ HIGH PASS AT +1.51513E+03

BEACON 121 SIDEBAND PASS

CENTER FREQ PASS AT 121.5024E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.60
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-36.00
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26000	-36.10

BEACON 243 SIDEBAND PASS

CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.70
-30DB MAX VALUE FOR	25.0K TO 44.00K	25100	-36.20
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.40
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26500	-35.80

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 1:27:00 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.20

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.25360E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.35527E+02
AUDIO FREQ HIGH PASS AT +1.58231E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5025E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-36.10
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-35.90

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.40
-30DB MAX VALUE FOR	25.0K TO 44.00K	25900	-35.80
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.00
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26300	-35.40

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 2:26:11 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.40

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.24428E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.57086E+02
AUDIO FREQ HIGH PASS AT +1.50297E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500 -28.80
-30DB MAX VALUE FOR 25.0K TO 44.00K	25000 -36.20
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500 -28.50
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000 -35.70

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500 -28.80
-30DB MAX VALUE FOR 25.0K TO 44.00K	25100 -36.30
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500 -28.50
-30DB MAX VALUE FOR -25.0K TO -44.00K	-26500 -35.90

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 3:25:25 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.80

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.20

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.25597E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.36762E+02
AUDIO FREQ HIGH PASS AT +1.48590E+03

ALL VENEERS
24 HR + 60 HR



KP

PASS WH



KP

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5025E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12600	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-36.00
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-35.70

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12600	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	26200	-36.30
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.40
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26300	-35.90

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 4:24:31 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.70

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.20

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.25476E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.56663E+02
AUDIO FREQ HIGH PASS AT +1.50954E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.60
-30DB MAX VALUE FOR	25.0K TO 44.00K	26300	-36.00
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.40
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-35.40

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0048E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.40
-30DB MAX VALUE FOR	25.0K TO 44.00K	26500	-35.80
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.00

ORL
SC001
DME

KP

-30DB MAX VALUE FOR -25.0K TO -44.00K -25000 -35.40

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 5:23:41 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.40

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.50

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.20

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.26191E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.33192E+02
AUDIO FREQ HIGH PASS AT +1.51485E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5024E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-36.10
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.60
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-27100	-36.20

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	26500	-36.20
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12600	-28.40
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26200	-35.90

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 6:22:49 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.40

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS

-22DB MODULATION DEPTH LIMIT -59.60

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.20

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.25279E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.57083E+02
AUDIO FREQ HIGH PASS AT +1.58208E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5024E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.30
-30DB MAX VALUE FOR	25.0K TO 44.00K	25100	-35.70
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.10
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-35.50

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.90
-30DB MAX VALUE FOR	25.0K TO 44.00K	25700	-36.40
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-26500	-36.00

BEACON SN . 2007coldlifetestafter24hrswithout406
TIME START 7:21:58 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.00

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.10

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.25144E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.35555E+02
AUDIO FREQ HIGH PASS AT +1.49047E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5026E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-36.10
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.60
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-36.00

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0047E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	26500	-36.20
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-35.90

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 8:21:07 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.10

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.10

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.21378E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.35549E+02
AUDIO FREQ HIGH PASS AT +1.56536E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5025E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.70
-30DB MAX VALUE FOR	25.0K TO 44.00K	25000	-36.10
-25DB MAX VALUE FOR	-12.5K TO -24.99K	-12500	-28.50
-30DB MAX VALUE FOR	-25.0K TO -44.00K	-25000	-36.00

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0048E6

-25DB MAX VALUE FOR	12.5K TO 24.99K	12500	-28.80
-30DB MAX VALUE FOR	25.0K TO 44.00K	26600	-36.20

-25DB MAX VALUE FOR -12.5K TO -24.99K -12500 -28.50
-30DB MAX VALUE FOR -25.0K TO -44.00K -25000 -35.80

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 9:20:16 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

BEACON 121 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -59.00

BEACON 243 85% MINIMUM MODULATION DEPTH PASS
-22DB MODULATION DEPTH LIMIT -52.00

BEACON DUTY CYCLE A PASS
DUTY CYCLE A PASS AT +6.25084E-01

AUDIO FREQ PASS
AUDIO FREQ LOW PASS AT +3.35522E+02
AUDIO FREQ HIGH PASS AT +1.50262E+03

BEACON 121 SIDEBAND PASS
CENTER FREQ PASS AT 121.5025E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12700	-28.80
-30DB MAX VALUE FOR 25.0K TO 44.00K	25000	-36.10
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-28.60
-30DB MAX VALUE FOR -25.0K TO -44.00K	-25000	-35.80

BEACON 243 SIDEBAND PASS
CENTER FREQ PASS AT 243.0045E6

-25DB MAX VALUE FOR 12.5K TO 24.99K	12500	-28.60
-30DB MAX VALUE FOR 25.0K TO 44.00K	25000	-36.10
-25DB MAX VALUE FOR -12.5K TO -24.99K	-12500	-28.30
-30DB MAX VALUE FOR -25.0K TO -44.00K	-26200	-35.70

BEACON SN 2007coldlifetestafter24hrswithout406
TIME START 10:19:25 AM
DATE START 2/14/03

BEACON 121 OUTPUT POWER PASS
121 POWER PASS AT 18.30

BEACON 243 OUTPUT POWER PASS
243 POWER PASS AT 19.80

ALIVE BESS
24HR + 12HR
PASS
MHA

