

**Attachment V**  
**Salt Water Immersion Test Results**

# Qualification Data Sheet

|                                                          |                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: 11/5/02                                            | Test: SALT WATER IMMERSION                                                                                                                                                                                                                                                   |
| 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 0044<br>Antenna "B" PN A3-06-2053-001 rev 02 SN 0031<br>Digital CCA PN A3-07-0038-800 rev 07 SN 0016<br>RF CCA PN A3-07-0039-800 rev 07 SN 0002<br>Battery pack A3-03-1006-001 rev 04 SN 020149<br>Lanyard PN A3-05-0099-001 rev 03. |
| Description of Test Method (ex: Eurocae ED-62, para x.x) | 2.3 2.2.9.2 IN00204                                                                                                                                                                                                                                                          |
| Pass/Fail Criteria                                       | 2.3 2.2.9.2 IN00204                                                                                                                                                                                                                                                          |
| Authorized Deviations                                    | —                                                                                                                                                                                                                                                                            |
| Test Location                                            | QUALTEST, ORL                                                                                                                                                                                                                                                                |
| Purchase Order #                                         | —                                                                                                                                                                                                                                                                            |
| Test Equipment Arrangement (if necessary)                | —                                                                                                                                                                                                                                                                            |
| List of Calibrated Equipment                             | —                                                                                                                                                                                                                                                                            |
| DME Test Engineer                                        | KEN HEPPT                                                                                                                                                                                                                                                                    |
| DME QA Representative                                    | KEN KOTYK                                                                                                                                                                                                                                                                    |
| Lab Test Engineer/Technician                             | NA                                                                                                                                                                                                                                                                           |
| Other Witness                                            | NA                                                                                                                                                                                                                                                                           |
| Test Unit Authorized Deviations                          | NA                                                                                                                                                                                                                                                                           |
| Test Data                                                | 1. pressed self test → PASS<br>2. removed unit from water, dried antennas, pulled pin → UNIT ACTIVATES.                                                                                                                                                                      |
| Data Reduction/Calculations                              | —                                                                                                                                                                                                                                                                            |
| Test Deviations                                          | —                                                                                                                                                                                                                                                                            |
| Test Performed Prior to this Test                        | SPRAY TEST                                                                                                                                                                                                                                                                   |
| Next Test to be Performed                                | 10 MINUTE SALT WATER IMMERSION                                                                                                                                                                                                                                               |
| Test Engineer Signature                                  | K. HEPPT                                                                                                                                                                                                                                                                     |
| QA Signature                                             | K. KOTYK                                                                                                                                                                                                                                                                     |
| Other Witness Signature                                  | NA                                                                                                                                                                                                                                                                           |
| NMR #                                                    | NA                                                                                                                                                                                                                                                                           |
| Notes                                                    | NA                                                                                                                                                                                                                                                                           |

# Qualification Data Sheet

|                                                             |                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: 11/5/02                                               | Test: 10 MINUTE - SALT WATER IMMERSION                                                                                                                                                                                                                                      |
| Test Unit Description                                       | SRB-406 ELT, PN P3-03-0041-001, revision 05,<br>Serial # 2007                                                                                                                                                                                                               |
| Test Unit Configuration                                     | Antenna "A" PN A3-06-2053-001 rev 02 SN 0044<br>Antenna "B" PN A3-06-2053-001 rev 02 SN 0031<br>Digital CCA PN A3-07-0038-800 rev 07 SN 0016<br>RF CCA PN A3-07-0039-800 rev 07 SN 0002<br>Battery pack A3-03-1006-001 rev 04 SN 02049<br>Lanyard PN A3-05-0099-001 rev 03. |
| Description of Test Method<br>(ex: Eurocae ED-62, para x.x) | 2,3, 2,3,9,2 FND0204                                                                                                                                                                                                                                                        |
| Pass/Fail Criteria                                          | 2,3, 2,3,9,2 FND0204                                                                                                                                                                                                                                                        |
| Authorized Deviations                                       | —                                                                                                                                                                                                                                                                           |
| Test Location                                               | QUALTEST, ORL                                                                                                                                                                                                                                                               |
| Purchase Order #                                            | —                                                                                                                                                                                                                                                                           |
| Test Equipment Arrangement<br>(if necessary)                | —                                                                                                                                                                                                                                                                           |
| List of Calibrated Equipment                                | —                                                                                                                                                                                                                                                                           |
| DME Test Engineer                                           | KEN HEPPT                                                                                                                                                                                                                                                                   |
| DME QA Representative                                       | KEN KOTYK                                                                                                                                                                                                                                                                   |
| Lab Test Engineer/Technician                                | —                                                                                                                                                                                                                                                                           |
| Other Witness                                               | —                                                                                                                                                                                                                                                                           |
| Test Unit Authorized<br>Deviations                          | —                                                                                                                                                                                                                                                                           |
| Test Data                                                   | 1. while unit submerged in water, pulled pin → ACTIVATES<br>2. ran for 10 minutes<br>3. pressed self test → PASS                                                                                                                                                            |
| Data Reduction/Calculations                                 | —                                                                                                                                                                                                                                                                           |
| Test Deviations                                             | —                                                                                                                                                                                                                                                                           |
| Test Performed Prior to this<br>Test                        | SALT WATER IMMERSION                                                                                                                                                                                                                                                        |
| Next Test to be Performed                                   | —                                                                                                                                                                                                                                                                           |
| Test Engineer Signature                                     | KEN HEPPT                                                                                                                                                                                                                                                                   |
| QA Signature                                                | KEN KOTYK                                                                                                                                                                                                                                                                   |
| Other Witness Signature                                     | <del>KEN KOTYK</del> N/A                                                                                                                                                                                                                                                    |
| NMR #                                                       | N/A                                                                                                                                                                                                                                                                         |
| Notes                                                       | N/A                                                                                                                                                                                                                                                                         |

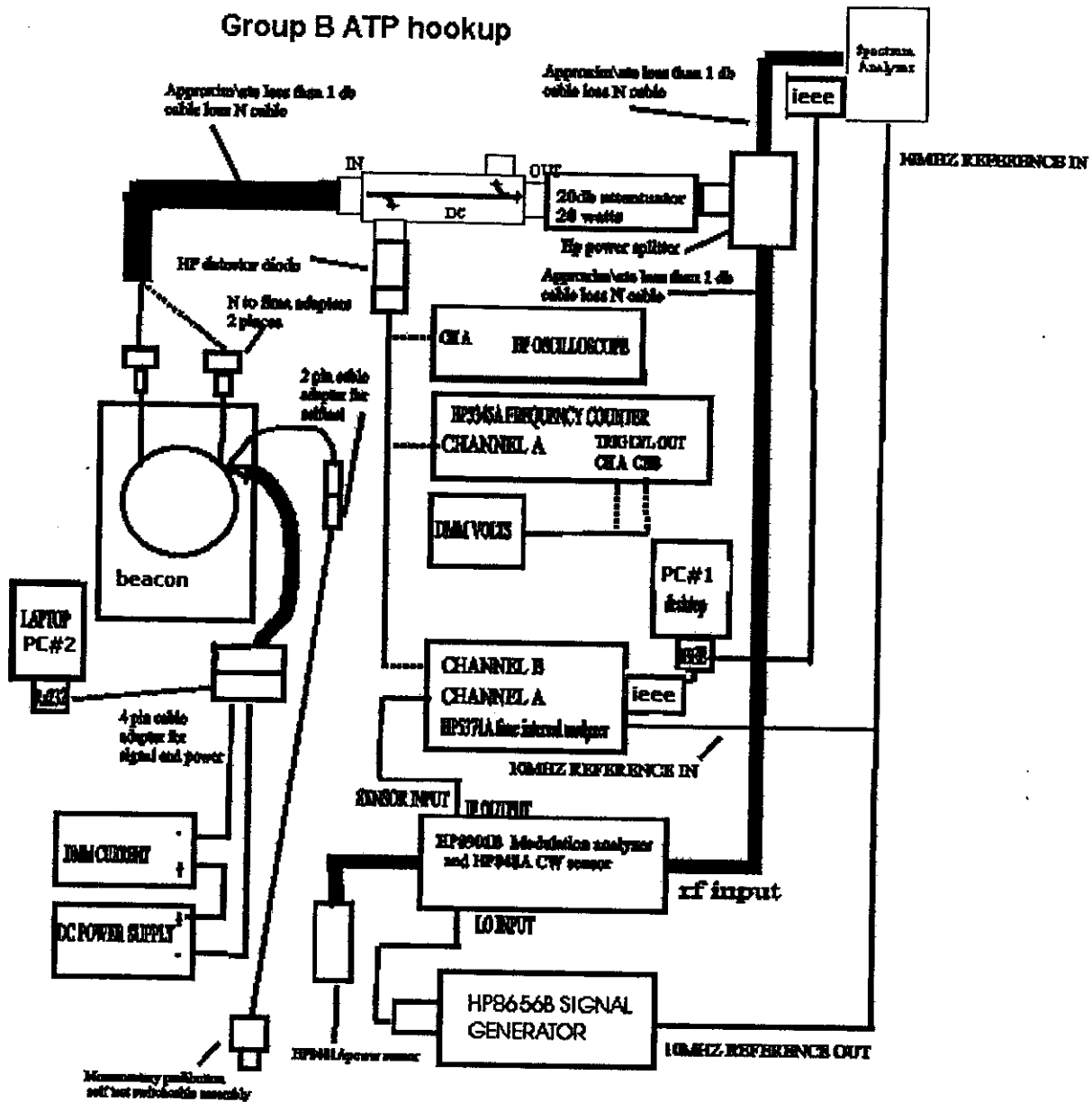
# Qualification Data Sheet

|                                                             |                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: 11/12/02                                              | Test: POST SALT WATER IMMERSION & HIGH TEMP                                                                                                                                                                                                                                  |
| Test Unit Description                                       | SRB-406 ELT, PN P3-03-0041-001, revision 05,<br>Serial # 2007                                                                                                                                                                                                                |
| Test Unit Configuration                                     | Antenna "A" PN A3-06-2053-001 rev 02 SN 0044<br>Antenna "B" PN A3-06-2053-001 rev 02 SN 0031<br>Digital CCA PN A3-07-0038-800 rev 07 SN 0016<br>RF CCA PN A3-07-0039-800 rev 07 SN 0002<br>Battery pack A3-03-1006-001 rev 04 SN 020149<br>Lanyard PN A3-05-0099-001 rev 03. |
| Description of Test Method<br>(ex: Eurocae ED-62, para x.x) | 00204 2.3.9.2, 2.3                                                                                                                                                                                                                                                           |
| Pass/Fail Criteria                                          | 00204 2.3.9.2, 2.3.                                                                                                                                                                                                                                                          |
| Authorized Deviations                                       | —                                                                                                                                                                                                                                                                            |
| Test Location                                               | DME ORLANDO                                                                                                                                                                                                                                                                  |
| Purchase Order #                                            | —                                                                                                                                                                                                                                                                            |
| Test Equipment Arrangement<br>(if necessary)                | —                                                                                                                                                                                                                                                                            |
| List of Calibrated Equipment                                | —                                                                                                                                                                                                                                                                            |
| DME Test Engineer                                           | KEN HEPPT                                                                                                                                                                                                                                                                    |
| DME QA Representative                                       | KEN KOTYK                                                                                                                                                                                                                                                                    |
| Lab Test Engineer/Technician                                | —                                                                                                                                                                                                                                                                            |
| Other Witness                                               | —                                                                                                                                                                                                                                                                            |
| Test Unit Authorized<br>Deviations                          | —                                                                                                                                                                                                                                                                            |
| Test Data                                                   | 1. RAN SELF TEST → PASS<br>2. PULL PIN → NO ACTIVATION.<br>3. WET FINGERS, ACTIVATED UNIT BY TOUCHING ANTENNAS,<br>PLACED IN METAL CASE → WAIT TWO HOURS — <u>PASS</u>                                                                                                       |
| Data Reduction/Calculations                                 | PASS                                                                                                                                                                                                                                                                         |
| Test Deviations                                             | N/A                                                                                                                                                                                                                                                                          |
| Test Performed Prior to this<br>Test                        | N/A                                                                                                                                                                                                                                                                          |
| Next Test to be Performed                                   | SAND & DUST                                                                                                                                                                                                                                                                  |
| Test Engineer Signature                                     | <i>[Signature]</i>                                                                                                                                                                                                                                                           |
| QA Signature                                                | <i>[Signature]</i>                                                                                                                                                                                                                                                           |
| Other Witness Signature                                     | N/A                                                                                                                                                                                                                                                                          |
| NMR #                                                       | N/A                                                                                                                                                                                                                                                                          |
| Notes                                                       | 2 HR ACTIVATION, STARTED AT 10AM.                                                                                                                                                                                                                                            |

## 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



POST GATEWAY

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

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

DATA = 0044  
AUT B = 0031  
RF = 0002  
DB = 0006  
PMT = 02049

Tested By: [Signature]

DATE: 11/12/02

Beacon P3-03-0041-001 Serial Number: 2007

| Test Equipment | Model     | Serial No. or Control No. | Cal. Due |
|----------------|-----------|---------------------------|----------|
| SPECTAN        | HP 8568B  | OR3063                    | 9/18/03  |
| GENRATOR       | HP 8656B  | OR1091                    | 5/18/03  |
| MODNA          | HP 8901M  | OR1093                    | 1/30/03  |
| SCOPE          | HP 54910B | OR0627                    | 8/29/03  |
| POWER METER    | HP 70100A | 6FE 588                   | 9/12/03  |
| CW GENERATOR   | HP 8481A  | 6FE0112                   | 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 | <input checked="" type="radio"/> P <input type="radio"/> F |
| 3.4                                                | HP8656 setting for 243 MHZ     | -0.5 | <u>0.2</u> dBm | +0.5 | <input checked="" type="radio"/> P <input type="radio"/> F |
| 3.5                                                | HP8656 setting for 406.028 MHZ | -0.5 | <u>0.2</u> dBm | +0.5 | <input checked="" type="radio"/> P <input type="radio"/> F |

| BIST and turn on tests |                                             |      |                                         |      |                                                            |
|------------------------|---------------------------------------------|------|-----------------------------------------|------|------------------------------------------------------------|
| Para.                  | Description                                 | Min. | Results                                 | Max. | Pass / Fail (circle one)                                   |
| 4.1                    | Beacon passes self test and goes off        | N/A  | <input checked="" type="checkbox"/> chk | N/A  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.2                    | Beacon stays off                            | N/A  | <input checked="" type="checkbox"/> chk | N/A  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.3                    | Beacon transmits when B antenna is touched. | N/A  | <input checked="" type="checkbox"/> chk | N/A  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.4                  | Beacon goes off when magnet is installed.   | N/A  | <input checked="" type="checkbox"/> chk | N/A  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.5                  | Beacon transmits when A antenna is touched. | N/A  | <input checked="" type="checkbox"/> chk | N/A  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.6                  | Beacon goes off when magnet is installed.   | N/A  | <input checked="" type="checkbox"/> chk | N/A  | <input checked="" type="radio"/> P <input type="radio"/> F |

*Handwritten signature*  
ORL  
S001  
DME  
*Handwritten initials*

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>20.3</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<br><u>F140</u>  | N/A        | N/A                      |
|       | Peak power + antenna gain= EIRP                                                                    | <u>20.3</u> dBm<br>EIRP | <u>19.3</u> dBm<br><u>F140</u> | N/A        | (P) F                    |
| 4.2.2 | Frequency 121.5 MHz $\pm$ 6 kHz                                                                    | 121.494                 | <u>121.5013</u> MHz            | 121.506    | (P) F                    |
| 4.2.3 | Peak Power at 243 MHZ                                                                              | 17.0dBm                 | <u>21.0</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<br><u>F140</u>   | N/A        | N/A                      |
|       | Peak power + antenna gain= EIRP                                                                    | <u>20.3</u> dBm<br>EIRP | <u>24.7</u> dBm<br><u>F140</u> | N/A        | (P) F                    |
| 4.2.4 | Frequency 243 MHz $\pm$ 12 kHz                                                                     | 242.988                 | <u>243.0026</u> MHz            | 243.012    | (P) F                    |
| 4.2.5 | 121.5 Mhz Modulation depth                                                                         | N/A                     | <u>-41.3</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>1501</u> Hz                 | 1600       | (P) F                    |
|       | Min audio frequency                                                                                | 300                     | <u>364</u> Hz                  | N/A        | (P) F                    |
|       | Max - Min                                                                                          | <u>N/A</u>              | <u>1137</u> Hz                 | <u>N/A</u> | (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>35.9</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<br><u>770</u>   | N/A      | N/A                      |
|                             | Peak power + antenna gain = EIRP                                                                     | 32.0dbm EIRP | <u>36.05</u> dBm<br><u>780</u> | N/A      | (P) F                    |
| 4.3.2                       | Frequency Accuracy 406.028 MHz $\pm$ 1 kHz                                                           | 406.0270     | <u>406.02793</u> MHz           | 406.0290 | (P) F                    |



POST SACT WINTER

TEST DATA SHEETS  
RF BEACON ASSEMBLY  
A3-07-1032

Tested By: K. Hent

2007

DATE: 11/12/02

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

DIGITAL PCB (A3-07-0038) Serial Number: 0016

| Test Equipment  | Model       | Serial No. or Control No. | Cal. Due |
|-----------------|-------------|---------------------------|----------|
| SPECAN          | HP8568B     | 023063                    | 9/18/03  |
| GENERATOR       | HP 8656B    | 021091                    | 9/18/03  |
| 400 MWA         | HP8901B     | 011093                    | 1/30/03  |
| SLOPE           | HP 54510B   | 020627                    | 8/24/03  |
| TIME + FREQ MTR | HP9371A     | 2842A00760                | 6/11/03  |
| POWER METER     | HP 70100A   | 6FE588                    | 9/12/03  |
| CAL SIGNAL      | HP8481A     | 6FE0012                   | 2/22/03  |
| DMM             | FLUKE 8090A | 021090                    | 6/14/03  |
|                 |             |                           |          |
|                 |             |                           |          |
|                 |             |                           |          |
|                 |             |                           |          |

ORIL  
5001  
DME  
(K)

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>+10.3</u> dBm | +0.5 | <input checked="" type="radio"/> P <input type="radio"/> F |
| 3.4                                                | HP8656 setting for 243 MHz     | -0.5 | <u>+0.2</u> dBm  | +0.5 | <input checked="" type="radio"/> P <input type="radio"/> F |
| 3.5                                                | HP8656 setting for 406.028 MHz | -0.5 | <u>+0.2</u> dBm  | +0.5 | <input checked="" type="radio"/> P <input type="radio"/> F |

RF beacon 121.5/243 Mhz Tests

| Para. | Description                                | Min.    | Results            | Max.    | Pass / Fail (circle one)                                   |
|-------|--------------------------------------------|---------|--------------------|---------|------------------------------------------------------------|
|       | Peak Power at 121.5 MHz                    | 17.0dBm | <u>18.0</u> dBm    | N/A     | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | UUT current during 121.5/243 Mhz broadcast | N/A     | <u>82</u> mA       | 100mA   | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.2 | Frequency 121.5 MHz $\pm$ 6 kHz            | 121.494 | <u>121.505</u> MHz | 121.506 | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.3 | 121.5 MHz Bandwidth $\geq$ +12.5 kHz       | N/A     | <u>-28.2</u> dBc   | -25dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 121.5 MHz Bandwidth $\leq$ -12.5 kHz       | N/A     | <u>-27.4</u> dBc   | -25dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 121.5 MHz Bandwidth $\geq$ +25 kHz         | N/A     | <u>-34.7</u> dBc   | -30dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 121.5 MHz Bandwidth $\leq$ -25 kHz         | N/A     | <u>-32.7</u> dBc   | -30dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.4 | Peak Power at 243 MHz                      | 17.0dBm | <u>19.0</u> dBm    | N/A     | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.5 | Frequency 243 MHz $\pm$ 12 kHz             | 242.988 | <u>243.003</u> MHz | 243.012 | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.6 | 243 MHz Bandwidth $\geq$ +12.5 kHz         | N/A     | <u>-29.4</u> dBc   | -25dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 243 MHz Bandwidth $\leq$ -12.5 kHz         | N/A     | <u>-29.1</u> dBc   | -25dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 243 MHz Bandwidth $\geq$ +25 kHz           | N/A     | <u>-34.4</u> dBc   | -30dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 243 MHz Bandwidth $\leq$ -25 kHz           | N/A     | <u>-34.2</u> dBc   | -30dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.7 | 121.5 Mhz Modulation depth                 | N/A     | <u>-39.6</u> dBc   | -22dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
| 4.1.8 | 364.5 MHz harmonic                         | N/A     | <u>-48.3</u> dBc   | -30dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 486 MHz harmonic                           | N/A     | <u>-52.3</u> dBc   | -30dBc  | <input checked="" type="radio"/> P <input type="radio"/> F |
|       | 121.5 /243 Mhz Duty cycle                  | 45%     | <u>61.9</u> %      | 67%     | <input checked="" type="radio"/> P <input type="radio"/> F |

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>36.2</u> dBm                   | 39.0dbm  | (P) F                    |
|        | UUT peak current during 406 Mhz broadcast                           | N/A      | <u>1.41</u> A                     | 1.7A     | (P) F                    |
| 4.2.2  | 406.028 MHz Bandwidth $\geq +12.0$ kHz                              | N/A      | <u>-41.8</u> dBc                  | -30dBc   | (P) F                    |
|        | 406.028 MHz Bandwidth $\leq -12.0$ kHz                              | N/A      | <u>-41.6</u> dBc                  | -30dBc   | (P) F                    |
|        | 406.028 MHz Bandwidth $\geq +24$ kHz                                | N/A      | <u>-53.8</u> dBc                  | -40dBc   | (P) F                    |
|        | 406.028 MHz Bandwidth $\leq -24$ kHz                                | N/A      | <u>-52.2</u> dBc                  | -40dBc   | (P) F                    |
| 4.2.3  | 812 MHz harmonic                                                    | N/A      | <u>-51.2</u> dBc                  | -30dBc   | (P) F                    |
| 4.2.4  | 406 pulse falling (starting edge) time                              | 0.3      | <u>0.983</u> msec                 | 5.0      | (P) F                    |
| 4.2.5  | 406 pulse rising (stopping edge) time                               | 0.3      | <u>1.049</u> msec                 | 5.0      | (P) F                    |
|        | Total transmission pulse time measured with diode detector.         | 435.6    | <u>442.37</u> msec                | 444.4    | (P) F                    |
| 4.2.7  | Total transmission time burst spacing measured with diode detector. | 47.5     | <u>50.76</u> sec                  | 52.5     | (P) F                    |
| 4.2.9  | Phase modulation +1.10 radian peak                                  | 1.00     | <u>1.088</u> Rad                  | 1.20     | (P) F                    |
| 4.2.10 | Phase modulation -1.10 radian peak                                  | -1.20    | <u>-1.131</u> Rad                 | -1.00    | (P) F                    |
| 4.2.11 | Phase modulation rise time                                          | 50usec   | <u>173.6</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>0.018</u> ratio                | 0.05     | (P) F                    |
| 4.2.14 | Modulation Bit rate 400 bits/sec                                    | 396.0    | <u>401.06</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>AD020K044040</u>               | N/A      | (P) F                    |
| 4.2.17 | Frequency Accuracy 406.028 MHz $\pm 1$ kHz                          | 406.0270 | <u>406.028093</u> Hz              | 406.0290 | (P) F                    |
| 4.2.18 | Short term stability                                                | -2e-9    | <u>286 x 10<sup>-12</sup></u> n/a | 2e-9     | (P) F                    |
| 4.2.19 | medium term residual variation                                      | -3e-9    | <u>321 x 10<sup>-12</sup></u> n/a | 3e-9     | (P) F                    |
| 4.2.20 | medium term slope                                                   | -1e-9    | <u>9 x 10<sup>-12</sup></u> n/a   | 1e-9     | (P) F                    |



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>       | N/A     | <u>(P)</u> F             |
| 4.3.3                                             | Beacon passes self test and goes off                 | N/A     | <u>✓</u> chk   | N/A     | <u>(P)</u> F             |
| 4.3.4                                             | Beacon transmits when load is connected to B antenna | N/A     | <u>✓</u> chk   | N/A     | <u>(P)</u> 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                      |

PASS  
KIA  
ORL  
SQ01  
DME  
KP

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<br>(Q1 location) | 3500              | 3380            | 3100              |
| 4.4.5                               | 12 volt gain settings for 406 power<br>(Q3 location)     | 0                 | 0               | 0                 |
| 4.4.6                               | 406 phase modulation +1.1 radian<br>(Q5 location)        | 1522              | 1522            | 1522              |
|                                     | 406 phase modulation 0.0 radian<br>(Q5 location)         | 998               | 998             | 998               |
|                                     | 406 phase modulation -1.1 radian<br>(Q5 location)        | 421               | 421             | 474               |
| 4.4.7                               | 406 gain A<br>(Q7 location)                              | 2400              | 2580            | 2600              |
| 4.4.8                               | 406 gain B<br>(Q9 location)                              | 2400              | 2480            | 2600              |
| Para.                               | Description                                              | N/A               | Time in msec    | N/A               |
| 4.4.9                               | Preamble time.<br>(Q11 location)                         | N/A               | 155.8           | N/A               |
| Para.                               | Description                                              | Over voltage mode | Nominal voltage | Undervoltage mode |
| 4.4.10                              | 406 gain B offset<br>(Q13 location)                      | 0                 | 0               | 0                 |
| Para.                               | Description                                              | Over voltage mode | N/A             | Undervoltage mode |
| 4.4.11                              | Battery threshold<br>(Q15 location)                      | 11002             | N/A             | 9001              |

DATA OK  
KAT



Test Start 11/12/02, 3:56 PM

---MODULATION TEST---

PosPhase

UL = 1.2000000

LL = 1.0000000

Results = 1.0884135

NegPhase

UL = -1.0000000

LL = -1.2000000

Results = -1.1313742

Test Status: PASSED

---MOD\_SYM TEST---

ModRise

UL = 0.0002500

LL = 0.0000500

Results = 0.0001736

ModFall

UL = 0.0002500

LL = 0.0000500

Results = 0.0001578

ModSym

UL = 0.0500000

LL = N/A

Results = 0.0180659

Test Status: PASSED

---DECODER TEST---

Baud

UL = 404.0000000

LL = 396.0000000

Results = 401.0683841

Preamble

UL = 0.161600

LL = 0.158400

Results = 0.160873

ID/SN: ADDC07C01440401

Test Status: PASSED

---FREQUENCY TEST---

*PA*  
*NR*  


MeanFreq

UL = 406.0290000E+6

LL = 406.0270000E+6

Results = 406.0280936E+6

ShortTerm

UL = 2.0000000E-9

LL = -2.0000000E-9

Results = 286.5814299E-12

MediumTerm

UL = 3.0000000E-9

LL = -3.0000000E-9

Results = 327.1003525E-12

MeanSlope

UL = 1.0000000E-9

LL = -1.0000000E-9

Results = 9.6108922E-12

Test Status: PASSED

Test Finished 11/12/02, 4:13 PM

*Handwritten signature*

ORL  
SQ01  
DME

*Handwritten initials*

|      |        |      |         |
|------|--------|------|---------|
| 0    | .00    | PASS | LIMIT 0 |
| 100  | -.10   | PASS | LIMIT 0 |
| 200  | -.60   | PASS | LIMIT 0 |
| 300  | -.60   | PASS | LIMIT 0 |
| 400  | -1.70  | PASS | LIMIT 0 |
| 500  | -1.80  | PASS | LIMIT 0 |
| 600  | -1.80  | PASS | LIMIT 0 |
| 700  | -2.60  | PASS | LIMIT 0 |
| 800  | -3.40  | PASS | LIMIT 0 |
| 900  | -4.00  | PASS | LIMIT 0 |
| 1000 | -4.30  | PASS | LIMIT 0 |
| 1100 | -4.50  | PASS | LIMIT 0 |
| 1200 | -4.90  | PASS | LIMIT 0 |
| 1300 | -5.00  | PASS | LIMIT 0 |
| 1400 | -5.30  | PASS | LIMIT 0 |
| 1500 | -5.70  | PASS | LIMIT 0 |
| 1600 | -6.10  | PASS | LIMIT 0 |
| 1700 | -6.70  | PASS | LIMIT 0 |
| 1800 | -7.50  | PASS | LIMIT 0 |
| 1900 | -8.50  | PASS | LIMIT 0 |
| 2000 | -9.30  | PASS | LIMIT 0 |
| 2100 | -10.20 | PASS | LIMIT 0 |
| 2200 | -11.60 | PASS | LIMIT 0 |
| 2300 | -12.50 | PASS | LIMIT 0 |
| 2400 | -13.20 | PASS | LIMIT 0 |
| 2500 | -14.50 | PASS | LIMIT 0 |
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| 2800 | -15.80 | PASS | LIMIT 0 |
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| 3900 | -17.40 | PASS | LIMIT 0 |
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| 4300 | -17.80 | PASS | LIMIT 0 |
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| 4500 | -18.00 | PASS | LIMIT 0 |
| 4600 | -18.20 | PASS | LIMIT 0 |
| 4700 | -18.50 | PASS | LIMIT 0 |
| 4800 | -19.70 | PASS | LIMIT 0 |
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| 5100 | -21.30 | PASS | LIMIT 0 |

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| 9400  | -25.10 | PASS | LIMIT 0 |
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| 10300 | -26.90 | PASS | LIMIT 0 |

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| 15900 | -30.40 | PASS | LIMIT -25 |
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| 16600 | -31.00 | PASS | LIMIT -25 |
| 16700 | -31.00 | PASS | LIMIT -25 |
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| 17400 | -31.00 | PASS | LIMIT -25 |
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| 17600 | -31.30 | PASS | LIMIT -25 |
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| 20700 | -33.10 | PASS | LIMIT -25 |

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| 25500 | -34.80 | PASS | LIMIT -30 |
| 25600 | -34.80 | PASS | LIMIT -30 |
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| 25800 | -34.70 | PASS | LIMIT -30 |
| 25900 | -35.10 | PASS | LIMIT -30 |

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| 27400 | -35.60 | PASS | LIMIT -30 |
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| 28200 | -36.00 | PASS | LIMIT -30 |
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| 28500 | -36.30 | PASS | LIMIT -30 |
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| 28900 | -36.10 | PASS | LIMIT -30 |
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| 29100 | -36.00 | PASS | LIMIT -30 |
| 29200 | -36.00 | PASS | LIMIT -30 |
| 29300 | -36.40 | PASS | LIMIT -30 |
| 29400 | -36.60 | PASS | LIMIT -30 |
| 29500 | -36.80 | PASS | LIMIT -30 |
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| 29700 | -36.90 | PASS | LIMIT -30 |
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| 29900 | -36.50 | PASS | LIMIT -30 |
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| 31000 | -37.30 | PASS | LIMIT -30 |
| 31100 | -37.10 | PASS | LIMIT -30 |

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| 31300 | -37.10 | PASS | LIMIT -30 |
| 31400 | -36.90 | PASS | LIMIT -30 |
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| 31600 | -37.00 | PASS | LIMIT -30 |
| 31700 | -36.80 | PASS | LIMIT -30 |
| 31800 | -37.20 | PASS | LIMIT -30 |
| 31900 | -37.20 | PASS | LIMIT -30 |
| 32000 | -37.50 | PASS | LIMIT -30 |
| 32100 | -37.50 | PASS | LIMIT -30 |
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CENTER FREQ PASS AT 121.5015E6

|                                       |        |        |
|---------------------------------------|--------|--------|
| -25DB MAX VALUE FOR 12.5K TO 24.99K   | 12600  | -28.20 |
| -30DB MAX VALUE FOR 25.0K TO 44.00K   | 25200  | -34.70 |
| -25DB MAX VALUE FOR -12.5K TO -24.99K | -12800 | -27.40 |
| -30DB MAX VALUE FOR -25.0K TO -44.00K | -25300 | -32.70 |

BEACON 121 SIDEBAND PASS  
BEACON SN 2007\_11\_12\_02  
TIME START 15:22:00  
DATE START 11\_12\_02

*Handwritten signature*

ORL  
S001  
DME

*Handwritten initials*

|      |        |      |         |
|------|--------|------|---------|
| 0    | .00    | PASS | LIMIT 0 |
| 100  | .00    | PASS | LIMIT 0 |
| 200  | -.20   | PASS | LIMIT 0 |
| 300  | -.10   | PASS | LIMIT 0 |
| 400  | -.30   | PASS | LIMIT 0 |
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| 600  | -2.20  | PASS | LIMIT 0 |
| 700  | -3.10  | PASS | LIMIT 0 |
| 800  | -3.60  | PASS | LIMIT 0 |
| 900  | -4.70  | PASS | LIMIT 0 |
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| 2900 | -18.80 | PASS | LIMIT 0 |
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| 3200 | -20.00 | PASS | LIMIT 0 |
| 3300 | -20.30 | PASS | LIMIT 0 |
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| 3500 | -21.00 | PASS | LIMIT 0 |
| 3600 | -21.10 | PASS | LIMIT 0 |
| 3700 | -20.90 | PASS | LIMIT 0 |
| 3800 | -20.90 | PASS | LIMIT 0 |
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| 4000 | -20.90 | PASS | LIMIT 0 |
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| 4200 | -20.50 | PASS | LIMIT 0 |
| 4300 | -20.40 | PASS | LIMIT 0 |
| 4400 | -20.50 | PASS | LIMIT 0 |
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| 4900 | -20.90 | PASS | LIMIT 0 |
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| 5300  | -21.30 | PASS | LIMIT 0 |
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CENTER FREQ PASS AT 243.0030E6

|                                       |        |        |
|---------------------------------------|--------|--------|
| -25DB MAX VALUE FOR 12.5K TO 24.99K   | 12500  | -29.40 |
| -30DB MAX VALUE FOR 25.0K TO 44.00K   | 25600  | -34.40 |
| -25DB MAX VALUE FOR -12.5K TO -24.99K | -12500 | -29.10 |
| -30DB MAX VALUE FOR -25.0K TO -44.00K | -26400 | -34.20 |

BEACON 243 SIDEBAND PASS  
 BEACON SN 2007\_11\_12\_02  
 TIME START 15:28:00  
 DATE START 11/12/02

*PASS*  
*ALL*  
 ORL  
 5001  
 DME  
*CP*

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| 50   | .00    | PASS | LIMIT 0 |
| 100  | -.40   | PASS | LIMIT 0 |
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| 660  | -11.20 | PASS | LIMIT 0 |
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| 1840 | -22.90 | PASS | LIMIT 0 |
| 1890 | -21.50 | PASS | LIMIT 0 |
| 1940 | -20.50 | PASS | LIMIT 0 |
| 1990 | -20.00 | PASS | LIMIT 0 |
| 2040 | -19.80 | PASS | LIMIT 0 |
| 2090 | -19.70 | PASS | LIMIT 0 |
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| 2240 | -21.80 | PASS | LIMIT 0 |
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| 2400 | -25.00 | PASS | LIMIT 0 |
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| -24930 | -54.00 | PASS | LIMIT -40 |
| -24990 | -53.10 | PASS | LIMIT -40 |
| -25040 | -53.90 | PASS | LIMIT -40 |
| -25090 | -54.70 | PASS | LIMIT -40 |

CENTER FREQ PASS AT 406.02805E6

|                                     |        |        |
|-------------------------------------|--------|--------|
| -20DB MAX VALUE FOR 3K TO 6.99K     | 3010   | -24.00 |
| -30DB MAX VALUE FOR 7K TO 11.99K    | 7090   | -35.30 |
| -35DB MAX VALUE FOR 12K TO 23.99K   | 12290  | -41.80 |
| -40DB MAX VALUE FOR 24K TO 25K      | 24580  | -53.80 |
| -20DB MAX VALUE FOR -3K TO -6.99K   | -3670  | -25.80 |
| -30DB MAX VALUE FOR -7K TO -11.99K  | -7090  | -33.90 |
| -35DB MAX VALUE FOR -12K TO -23.99K | -12290 | -41.60 |
| -40DB MAX VALUE FOR -24K TO -25K    | -24730 | -52.20 |

BEACON 406 SIDEBAND PASS

BEACON SN 2007\_11\_12\_02

TIME START 15:32:00

DATE START 11/12/02

*Pass  
Mitt.**KB*