

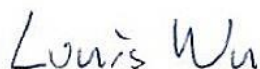


# FCC CO-LOCATION RADIO TEST REPORT

**FCC ID** : 2BHFNHESTIAA2  
**Equipment** : NTN-LoRaWAN Dongle  
**Brand Name** : APAL  
**Model Name** : Hestia A2  
**Applicant** : Creative5 Inc.  
7F, No. 300, Sec. 1, Neihu Rd., Neihu Dist.  
Taipei City, 11493, Taiwan  
**Manufacturer** : Creative5 Inc.  
7F, No. 300, Sec. 1, Neihu Rd., Neihu Dist.  
Taipei City, 11493, Taiwan  
**Standard** : FCC Part 15 Subpart C §15.247  
FCC 47 CFR Part 2, and 25

The product was received on Jan. 09, 2025 and testing was performed from Apr. 08, 2025 to Apr. 18, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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## History of this test report

| Report No.   | Version | Description             | Issue Date   |
|--------------|---------|-------------------------|--------------|
| FR480227-01B | 01      | Initial issue of report | May 07, 2025 |
|              |         |                         |              |
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|              |         |                         |              |

## Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items   | Result (PASS/FAIL) | Remark |
|---------------|---------------------|--|--------------------|--------|
| 3.1           | 15.247(d)           | Radiated Band Edges and Radiated Spurious Emission | Pass               | -      |
| 3.2           | 15.203<br>15.247(b) | Antenna Requirement                                | Pass               | -      |

**Note:** For host device, Radiated Spurious Emission is verified and complies with the limit in this test report.

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by:** Keven Cheng

**Report Producer:** Ming Chen

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature  |
|--|
| <b>General Specs</b><br>NTN, LoRa, and GNSS.                         |
| <b>Antenna Type</b><br>LoRa: Dipole Antenna<br>NTN: Monopole Antenna |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

|                           |  |
|---------------------------|--|
| <b>Test Site</b>          | Sporton International Inc. Wensan Laboratory   |
| <b>Test Site Location</b> | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b><br>03CH16-HY   |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786



## 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013
- ♦ FCC 47 CFR Part 2, 25

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

### 2.1 Carrier Frequency and Channel

| Channel Bandwidth: 500KHz |                |
|---------------------------|----------------|
| Channel                   | Freq.<br>(MHz) |
| 71                        | 914.2          |

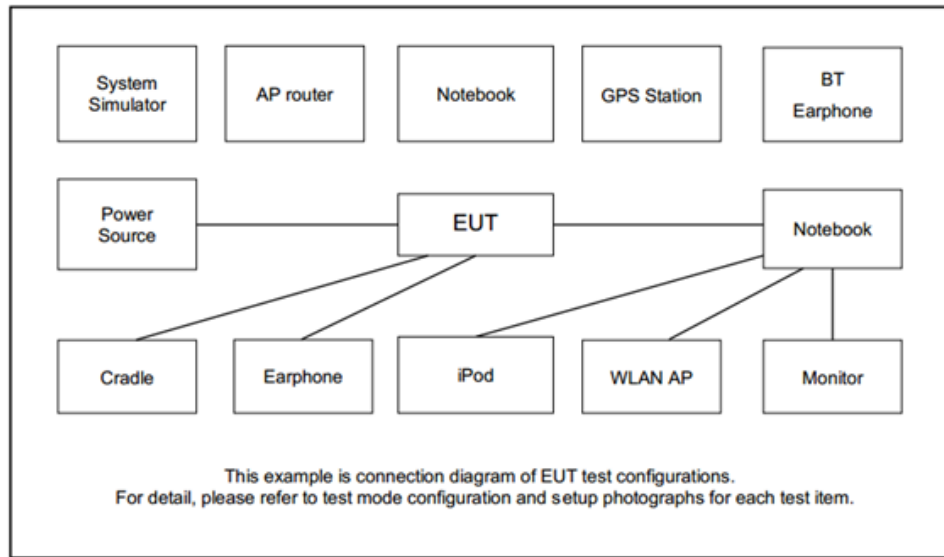
| Band 255 Channel and Frequency List |        |
|-------------------------------------|--------|
| Channel/Frequency(MHz)              | Middle |
| Channel                             | 261674 |
| Frequency                           | 1643.5 |

### 2.2 Test Mode

<Co-Location>

| Test Mode | Modulation   | Data Rate     |
|-----------|--|---------------|
| Mode 1    | Lora BW 500KHz SF 8 TX +<br>NTN Band 255 M CH 3.75k 1SC0 | 500KHz + 1SC0 |

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment        | Brand Name | Model Name | FCC ID  | Data Cable | Power Cord   |
|------|------------------|------------|------------|---------|------------|--|
| 1.   | System Simulator | Anritsu    | MT8821C    | N/A     | N/A        | Unshielded, 1.8 m  |
| 2.   | Notebook         | Lenovo     | L570       | FCC DoC | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |

### 3 Test Result

#### 3.1 Radiated Band Edges and Spurious Emission Measurement

##### 3.1.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.

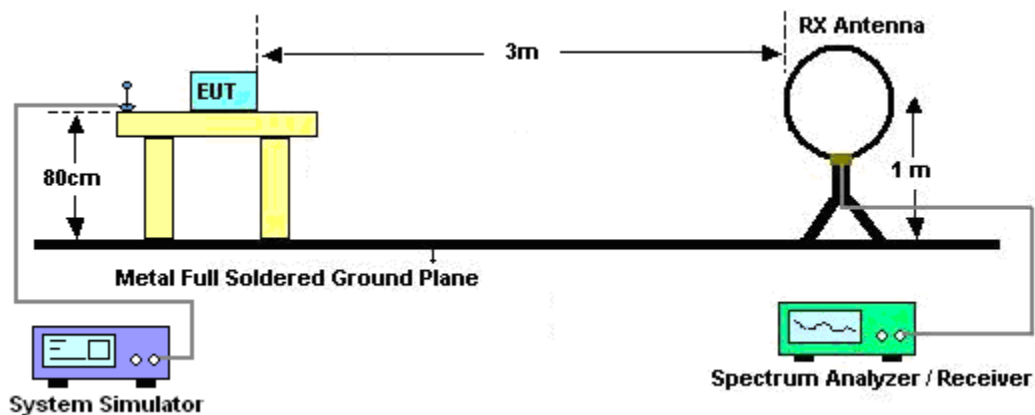
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW = 100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3 MHz for  $f \geq 1$  GHz for peak measurement.

For average measurement:

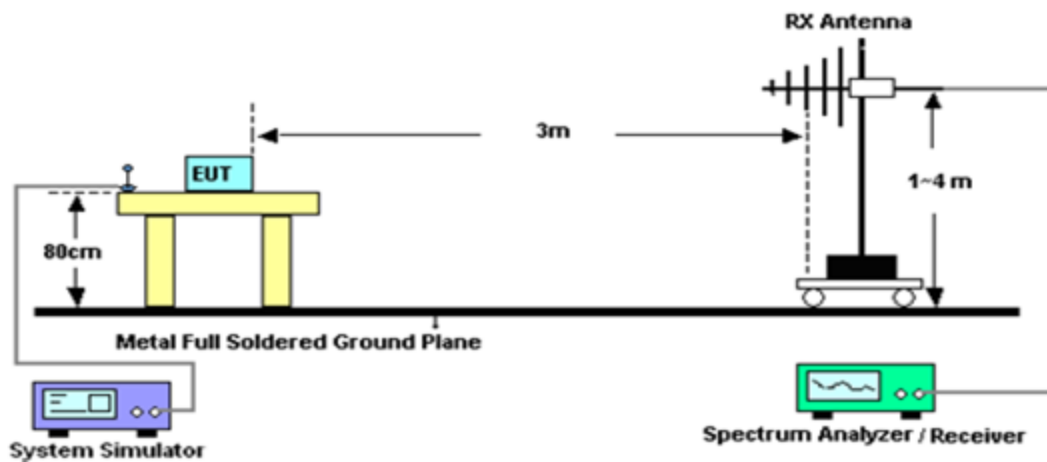
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.1.4 Test Setup

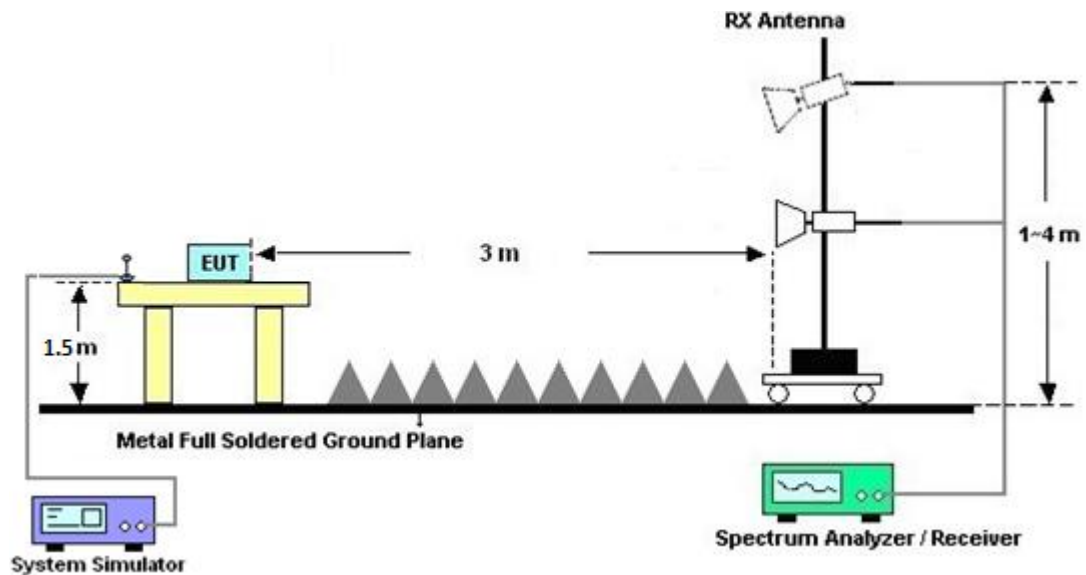
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz



**3.1.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

**3.1.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix A.

**3.1.7 Duty Cycle**

Please refer to Appendix B.

**3.1.8 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)**

Please refer to Appendix A.



## **3.2 Antenna Requirements**

### **3.2.1 Standard Applicable**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **3.2.2 Antenna Anti-Replacement Construction**

Unique (non-standard) antenna connector.



## 4 List of Measuring Equipment

| Instrument           | Brand Name      | Model No.                     | Serial No.                       | Characteristics               | Calibration Date | Test Date                       | Due Date      | Remark                   |
|----------------------|-----------------|-------------------------------|----------------------------------|-------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna         | Rohde & Schwarz | HFH2-Z2                       | 100488                           | 9kHz~30MHz                    | Aug. 29, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Aug. 28, 2025 | Radiation<br>(03CH16-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK     | BBHA9170                      | 1224                             | 18GHz~40GHz                   | Oct. 25, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Oct. 24, 2025 | Radiation<br>(03CH16-HY) |
| EMI Test Receiver    | Keysight        | N9038A(MXE)                   | MY57290111                       | 3Hz~26.5GHz                   | Nov. 22, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Nov. 21, 2025 | Radiation<br>(03CH16-HY) |
| Bilog Antenna        | TESEQ           | CBL 6111D &<br>00802N1D01N-06 | 47020 &<br>06                    | 30MHz to 1GHz                 | Oct. 05, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Oct. 04, 2025 | Radiation<br>(03CH16-HY) |
| Horn Antenna         | SCHWARZBECK     | BBHA 9120 D                   | 9120D-1328                       | 1G~18GHz                      | Dec. 06, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Dec. 05, 2025 | Radiation<br>(03CH16-HY) |
| Amplifier            | SONOMA          | 310N                          | 371607                           | 9kHz~1GHz                     | Jul. 02, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Jul. 01, 2025 | Radiation<br>(03CH16-HY) |
| Preamplifier         | Keysight        | 83017A                        | MY53270264                       | 1GHz~26.5GHz                  | Dec. 05, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Dec. 04, 2025 | Radiation<br>(03CH16-HY) |
| Preamplifier         | EMEC            | EM1G18G                       | 060812                           | 1GHz~18GHz                    | Dec. 24, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Dec. 23, 2025 | Radiation<br>(03CH16-HY) |
| Preamplifier         | EMEC            | EM18G40G                      | 060801                           | 18GHz~40GHz                   | May 27, 2024     | Apr. 08, 2025~<br>Apr. 15, 2025 | May 26, 2025  | Radiation<br>(03CH16-HY) |
| Filter               | Wainwright      | WLK4-1000-1530-8000-40SS      | SN17                             | 1.53GHz Low Pass Filter       | Jan. 14, 2025    | Apr. 08, 2025~<br>Apr. 15, 2025 | Jan. 13, 2026 | Radiation<br>(03CH16-HY) |
| Filter               | Wainwright      | WHKX12-2700-3000-18000-60ST   | SN3                              | 3GHz High Pass Filter         | Jun. 28, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Jun. 27, 2025 | Radiation<br>(03CH16-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                  | 801606/2                         | 9KHz ~ 40GHz                  | Apr. 22, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Apr. 21, 2025 | Radiation<br>(03CH16-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102/SUCOFLEX 104     | EC-A5-300-5757,805935/4,802434/4 | 30MHz~18GHz                   | Aug. 07, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Aug. 06, 2025 | Radiation<br>(03CH16-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                  | 804011/2, 804012/2               | 18-40GHz                      | Dec. 31, 2024    | Apr. 08, 2025~<br>Apr. 15, 2025 | Dec. 30, 2025 | Radiation<br>(03CH16-HY) |
| Software             | Audix           | E3 230621 V9                  | RK-002393                        | N/A                           | N/A              | Apr. 08, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH16-HY) |
| Controller           | ChainTek        | 3000-1                        | N/A                              | Control Turn table & Ant Mast | N/A              | Apr. 08, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH16-HY) |
| Antenna Mast         | ChainTek        | MBS-520-1                     | N/A                              | 1m~4m                         | N/A              | Apr. 08, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH16-HY) |
| Turn Table           | ChainTek        | T-200-S-1                     | N/A                              | 0~360 Degree                  | N/A              | Apr. 08, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH16-HY) |



## 5 Measurement Uncertainty

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|  |        |
|--|--------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 6.5 dB |
|--|--------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

|  |        |
|--|--------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 4.9 dB |
|--|--------|

### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

|  |        |
|--|--------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.1 dB |
|--|--------|



## Appendix A. Test Results of Radiated Test

### A1. Radiated Spurious Emission Test Modes

| Mode   | Band<br>(MHz) | Antenna | Modulation  | Channel  | Frequency | Data<br>Rate | RU | Remark |
|--------|---------------|---------|---|----------|-----------|--------------|----|--------|
| Mode 3 | 902-928       | 1       | Lora BW 500KHz SF 8 TX<br>+<br>NTN Band 255 M CH 3.75k 1SC0 | 914.2MHz | 914.2MHz  | -            | -  | -      |

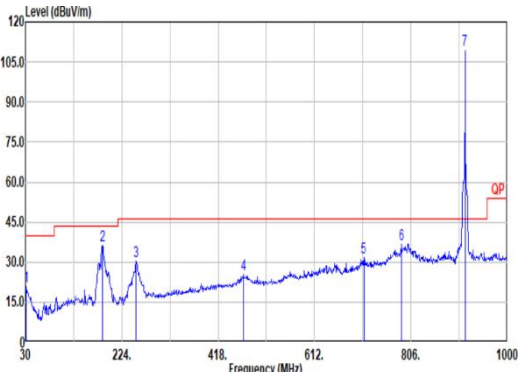
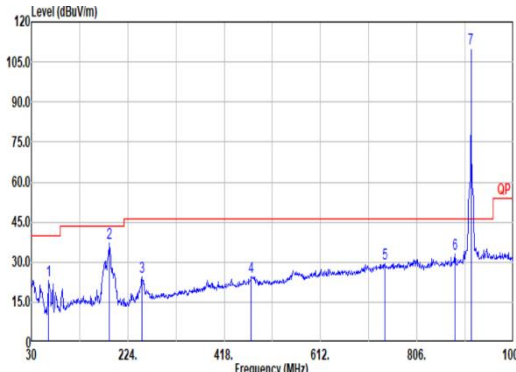
### A2. Summary of each worse mode

| Mode | Modulation  | Ch.      | Freq.<br>(MHz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Pol. | Peak<br>Avg. | Result | RU | Remark   |
|------|---|----------|----------------|-------------------|-------------------|----------------|------|--------------|--------|----|----------|
| 3    | Lora BW 500KHz SF<br>8 TX<br>+<br>NTN Band 255 M CH<br>3.75k 1SC0 | 914.2MHz | 187.14         | 36.97             | 43.5              | -6.53          | V    | Peak.        | Pass   | -  | LF       |
|      |   | 914.2MHz | 7313.60        | 48.90             | 54.00             | -5.10          | V    | Avg.         | Pass   | -  | Harmonic |



| Mode        | 3  |        |        |       |        |       |        |        |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
|-------------|--|--------|--------|-------|--------|-------|--------|--------|--------|-----|---------|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|------|--------|-------|--------|------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|-----------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|-----------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|-----------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|-----------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|-----------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|-----------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|-----------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|-----------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|---------|-----------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|------------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|---------|------------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|-------------|-------|-------|--------|-------|-------|-------|-------|------|----|----|
|             | Harmonic   |        |        |       |        |       |        |        |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
|             | Lora BW 500KHz SF 8 TX+ NTN Band 255 M CH 3.75k 1SC0   |        |        |       |        |       |        |        |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| ANT         | 1  |        |        |       |        |       |        |        |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| Pol.        | Horizontal   |        |        |       |        |       |        |        |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| Peak        |  |        |        |       |        |       |        |        |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
|             | <div>Site : 03CH16-HY<br/>Condition: PEAK_74 3m 91280-1328_241206 HORIZONTAL</div> <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 1828.40</td><td>53.44</td><td>74.00</td><td>-20.56</td><td>41.43</td><td>25.58</td><td>6.73</td><td>30.63</td><td>0.41</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>2 2742.00</td><td>56.72</td><td>74.00</td><td>-17.28</td><td>40.61</td><td>27.00</td><td>8.22</td><td>30.25</td><td>0.43</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>3 3656.00</td><td>36.95</td><td>74.00</td><td>-37.05</td><td>64.12</td><td>29.28</td><td>9.46</td><td>66.85</td><td>0.94</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>4 4571.00</td><td>37.59</td><td>74.00</td><td>-36.41</td><td>62.02</td><td>30.94</td><td>10.69</td><td>66.59</td><td>0.53</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>5 5485.20</td><td>53.96</td><td>74.00</td><td>-20.04</td><td>75.07</td><td>31.98</td><td>11.52</td><td>65.80</td><td>0.39</td><td>295</td><td>345</td><td>PEAK</td></tr><tr><td>6 6399.40</td><td>44.10</td><td>74.00</td><td>-29.90</td><td>62.64</td><td>33.92</td><td>12.42</td><td>65.49</td><td>0.61</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>7 7313.60</td><td>53.98</td><td>74.00</td><td>-20.02</td><td>69.45</td><td>36.56</td><td>13.29</td><td>65.76</td><td>0.44</td><td>202</td><td>306</td><td>PEAK</td></tr><tr><td>8 7313.60</td><td>48.00</td><td>54.00</td><td>-6.00</td><td>63.47</td><td>36.57</td><td>13.29</td><td>65.76</td><td>0.43</td><td>202</td><td>306</td><td>AVERAGE</td></tr><tr><td>9 8227.00</td><td>50.01</td><td>74.00</td><td>-23.99</td><td>64.65</td><td>36.62</td><td>14.07</td><td>65.79</td><td>0.46</td><td>205</td><td>20</td><td>PEAK</td></tr><tr><td>10 8227.00</td><td>42.02</td><td>54.00</td><td>-11.98</td><td>56.68</td><td>36.59</td><td>14.08</td><td>65.79</td><td>0.46</td><td>205</td><td>20</td><td>AVERAGE</td></tr><tr><td>11 9142.00</td><td>45.60</td><td>74.00</td><td>-28.40</td><td>58.03</td><td>38.04</td><td>14.75</td><td>65.85</td><td>0.63</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>12 10056.20</td><td>48.18</td><td>74.00</td><td>-25.82</td><td>59.90</td><td>39.10</td><td>15.57</td><td>66.85</td><td>0.46</td><td>--</td><td>--</td><td>PEAK</td></tr></table> |        |        |       |        |       |        |        |        |     |         |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 1828.40 | 53.44 | 74.00 | -20.56 | 41.43 | 25.58 | 6.73 | 30.63 | 0.41 | -- | -- | PEAK | 2 2742.00 | 56.72 | 74.00 | -17.28 | 40.61 | 27.00 | 8.22 | 30.25 | 0.43 | -- | -- | PEAK | 3 3656.00 | 36.95 | 74.00 | -37.05 | 64.12 | 29.28 | 9.46 | 66.85 | 0.94 | -- | -- | PEAK | 4 4571.00 | 37.59 | 74.00 | -36.41 | 62.02 | 30.94 | 10.69 | 66.59 | 0.53 | -- | -- | PEAK | 5 5485.20 | 53.96 | 74.00 | -20.04 | 75.07 | 31.98 | 11.52 | 65.80 | 0.39 | 295 | 345 | PEAK | 6 6399.40 | 44.10 | 74.00 | -29.90 | 62.64 | 33.92 | 12.42 | 65.49 | 0.61 | -- | -- | PEAK | 7 7313.60 | 53.98 | 74.00 | -20.02 | 69.45 | 36.56 | 13.29 | 65.76 | 0.44 | 202 | 306 | PEAK | 8 7313.60 | 48.00 | 54.00 | -6.00 | 63.47 | 36.57 | 13.29 | 65.76 | 0.43 | 202 | 306 | AVERAGE | 9 8227.00 | 50.01 | 74.00 | -23.99 | 64.65 | 36.62 | 14.07 | 65.79 | 0.46 | 205 | 20  | PEAK | 10 8227.00 | 42.02 | 54.00 | -11.98 | 56.68 | 36.59 | 14.08 | 65.79 | 0.46 | 205 | 20  | AVERAGE | 11 9142.00 | 45.60 | 74.00 | -28.40 | 58.03 | 38.04 | 14.75 | 65.85 | 0.63 | -- | -- | PEAK | 12 10056.20 | 48.18 | 74.00 | -25.82 | 59.90 | 39.10 | 15.57 | 66.85 | 0.46 | -- | -- |
|             | Limit  | Read   | Ant    | Cable | Preamp | Aux   | APos   | TPos   | Remark |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| Freq        | Level  | Line   | Margin | Level | Factor | Loss  | Factor | Factor |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| MHz         | dBuV/m   | dBuV/m | dB     | dBuV  | dB/m   | dB    | dB     | dB     | cm     | deg |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 1 1828.40   | 53.44  | 74.00  | -20.56 | 41.43 | 25.58  | 6.73  | 30.63  | 0.41   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 2 2742.00   | 56.72  | 74.00  | -17.28 | 40.61 | 27.00  | 8.22  | 30.25  | 0.43   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 3 3656.00   | 36.95  | 74.00  | -37.05 | 64.12 | 29.28  | 9.46  | 66.85  | 0.94   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 4 4571.00   | 37.59  | 74.00  | -36.41 | 62.02 | 30.94  | 10.69 | 66.59  | 0.53   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 5 5485.20   | 53.96  | 74.00  | -20.04 | 75.07 | 31.98  | 11.52 | 65.80  | 0.39   | 295    | 345 | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 6 6399.40   | 44.10  | 74.00  | -29.90 | 62.64 | 33.92  | 12.42 | 65.49  | 0.61   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 7 7313.60   | 53.98  | 74.00  | -20.02 | 69.45 | 36.56  | 13.29 | 65.76  | 0.44   | 202    | 306 | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 8 7313.60   | 48.00  | 54.00  | -6.00  | 63.47 | 36.57  | 13.29 | 65.76  | 0.43   | 202    | 306 | AVERAGE |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 9 8227.00   | 50.01  | 74.00  | -23.99 | 64.65 | 36.62  | 14.07 | 65.79  | 0.46   | 205    | 20  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 10 8227.00  | 42.02  | 54.00  | -11.98 | 56.68 | 36.59  | 14.08 | 65.79  | 0.46   | 205    | 20  | AVERAGE |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 11 9142.00  | 45.60  | 74.00  | -28.40 | 58.03 | 38.04  | 14.75 | 65.85  | 0.63   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 12 10056.20 | 48.18  | 74.00  | -25.82 | 59.90 | 39.10  | 15.57 | 66.85  | 0.46   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| Avg         |  |        |        |       |        |       |        |        |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
|             | <div>Site : 03CH16-HY<br/>Condition: PEAK_74 3m 91280-1328_241206 VERTICAL</div> <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 1828.40</td><td>55.03</td><td>74.00</td><td>-18.97</td><td>43.07</td><td>25.54</td><td>6.72</td><td>30.64</td><td>0.42</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>2 2742.00</td><td>56.27</td><td>74.00</td><td>-17.73</td><td>40.16</td><td>27.00</td><td>8.22</td><td>30.25</td><td>0.43</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>3 3656.00</td><td>37.73</td><td>74.00</td><td>-36.27</td><td>64.90</td><td>29.28</td><td>9.46</td><td>66.85</td><td>0.94</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>4 4571.00</td><td>37.84</td><td>74.00</td><td>-36.16</td><td>62.26</td><td>30.95</td><td>10.69</td><td>66.59</td><td>0.53</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>5 5485.20</td><td>57.39</td><td>74.00</td><td>-16.61</td><td>79.30</td><td>31.98</td><td>11.52</td><td>65.80</td><td>0.39</td><td>294</td><td>360</td><td>PEAK</td></tr><tr><td>6 6399.40</td><td>44.75</td><td>74.00</td><td>-29.25</td><td>63.29</td><td>33.92</td><td>12.42</td><td>65.49</td><td>0.61</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>7 7313.60</td><td>54.91</td><td>74.00</td><td>-19.09</td><td>70.38</td><td>36.57</td><td>13.29</td><td>65.76</td><td>0.43</td><td>308</td><td>311</td><td>PEAK</td></tr><tr><td>8 7313.60</td><td>48.90</td><td>54.00</td><td>-5.10</td><td>64.37</td><td>36.57</td><td>13.29</td><td>65.76</td><td>0.43</td><td>308</td><td>311</td><td>AVERAGE</td></tr><tr><td>9 8227.00</td><td>49.34</td><td>74.00</td><td>-24.66</td><td>64.00</td><td>36.59</td><td>14.08</td><td>65.79</td><td>0.46</td><td>177</td><td>335</td><td>PEAK</td></tr><tr><td>10 8227.00</td><td>41.44</td><td>54.00</td><td>-12.56</td><td>56.10</td><td>36.59</td><td>14.08</td><td>65.79</td><td>0.46</td><td>177</td><td>335</td><td>AVERAGE</td></tr><tr><td>11 9142.00</td><td>45.84</td><td>74.00</td><td>-28.16</td><td>58.27</td><td>38.04</td><td>14.75</td><td>65.85</td><td>0.63</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>12 10056.20</td><td>50.98</td><td>74.00</td><td>-23.02</td><td>62.71</td><td>39.07</td><td>15.58</td><td>66.84</td><td>0.46</td><td>--</td><td>--</td><td>PEAK</td></tr></table> |        |        |       |        |       |        |        |        |     |         |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 1828.40 | 55.03 | 74.00 | -18.97 | 43.07 | 25.54 | 6.72 | 30.64 | 0.42 | -- | -- | PEAK | 2 2742.00 | 56.27 | 74.00 | -17.73 | 40.16 | 27.00 | 8.22 | 30.25 | 0.43 | -- | -- | PEAK | 3 3656.00 | 37.73 | 74.00 | -36.27 | 64.90 | 29.28 | 9.46 | 66.85 | 0.94 | -- | -- | PEAK | 4 4571.00 | 37.84 | 74.00 | -36.16 | 62.26 | 30.95 | 10.69 | 66.59 | 0.53 | -- | -- | PEAK | 5 5485.20 | 57.39 | 74.00 | -16.61 | 79.30 | 31.98 | 11.52 | 65.80 | 0.39 | 294 | 360 | PEAK | 6 6399.40 | 44.75 | 74.00 | -29.25 | 63.29 | 33.92 | 12.42 | 65.49 | 0.61 | -- | -- | PEAK | 7 7313.60 | 54.91 | 74.00 | -19.09 | 70.38 | 36.57 | 13.29 | 65.76 | 0.43 | 308 | 311 | PEAK | 8 7313.60 | 48.90 | 54.00 | -5.10 | 64.37 | 36.57 | 13.29 | 65.76 | 0.43 | 308 | 311 | AVERAGE | 9 8227.00 | 49.34 | 74.00 | -24.66 | 64.00 | 36.59 | 14.08 | 65.79 | 0.46 | 177 | 335 | PEAK | 10 8227.00 | 41.44 | 54.00 | -12.56 | 56.10 | 36.59 | 14.08 | 65.79 | 0.46 | 177 | 335 | AVERAGE | 11 9142.00 | 45.84 | 74.00 | -28.16 | 58.27 | 38.04 | 14.75 | 65.85 | 0.63 | -- | -- | PEAK | 12 10056.20 | 50.98 | 74.00 | -23.02 | 62.71 | 39.07 | 15.58 | 66.84 | 0.46 | -- | -- |
|             | Limit  | Read   | Ant    | Cable | Preamp | Aux   | APos   | TPos   | Remark |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| Freq        | Level  | Line   | Margin | Level | Factor | Loss  | Factor | Factor |        |     |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| MHz         | dBuV/m   | dBuV/m | dB     | dBuV  | dB/m   | dB    | dB     | dB     | cm     | deg |         |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 1 1828.40   | 55.03  | 74.00  | -18.97 | 43.07 | 25.54  | 6.72  | 30.64  | 0.42   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 2 2742.00   | 56.27  | 74.00  | -17.73 | 40.16 | 27.00  | 8.22  | 30.25  | 0.43   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 3 3656.00   | 37.73  | 74.00  | -36.27 | 64.90 | 29.28  | 9.46  | 66.85  | 0.94   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 4 4571.00   | 37.84  | 74.00  | -36.16 | 62.26 | 30.95  | 10.69 | 66.59  | 0.53   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 5 5485.20   | 57.39  | 74.00  | -16.61 | 79.30 | 31.98  | 11.52 | 65.80  | 0.39   | 294    | 360 | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 6 6399.40   | 44.75  | 74.00  | -29.25 | 63.29 | 33.92  | 12.42 | 65.49  | 0.61   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 7 7313.60   | 54.91  | 74.00  | -19.09 | 70.38 | 36.57  | 13.29 | 65.76  | 0.43   | 308    | 311 | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 8 7313.60   | 48.90  | 54.00  | -5.10  | 64.37 | 36.57  | 13.29 | 65.76  | 0.43   | 308    | 311 | AVERAGE |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 9 8227.00   | 49.34  | 74.00  | -24.66 | 64.00 | 36.59  | 14.08 | 65.79  | 0.46   | 177    | 335 | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 10 8227.00  | 41.44  | 54.00  | -12.56 | 56.10 | 36.59  | 14.08 | 65.79  | 0.46   | 177    | 335 | AVERAGE |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 11 9142.00  | 45.84  | 74.00  | -28.16 | 58.27 | 38.04  | 14.75 | 65.85  | 0.63   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |
| 12 10056.20 | 50.98  | 74.00  | -23.02 | 62.71 | 39.07  | 15.58 | 66.84  | 0.46   | --     | --  | PEAK    |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |      |       |      |    |    |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |        |       |       |       |       |      |    |    |      |           |       |       |        |       |       |       |       |      |     |     |      |           |       |       |       |       |       |       |       |      |     |     |         |           |       |       |        |       |       |       |       |      |     |     |      |            |       |       |        |       |       |       |       |      |     |     |         |            |       |       |        |       |       |       |       |      |    |    |      |             |       |       |        |       |       |       |       |      |    |    |



| Mode        | 3   |          |        |        |        |       |        |        |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
|-------------|---|----------|--------|--------|--------|-------|--------|--------|--------|------|---------|------|-------|------|--------|-------|--------|------|--------|--------|--------|-----|--------|--------|----|------|------|----|----|----|----|-----|---|-------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|-------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|-------|-------|-------|------|-------|------|----|------|---|--------|--------|-------|-------|--------|-------|------|-------|------|-----|---------|---|--|-------|------|-----|-------|--------|-----|------|------|--|------|-------|------|--------|-------|--------|------|--------|--------|--------|-----|--------|--------|----|------|------|----|----|----|----|-----|---|-------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|-------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|------|---|--------|--------|-------|-------|--------|-------|------|-------|------|-----|---------|
|             | LF  |          |        |        |        |       |        |        |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
|             | Lora BW 500KHz SF 8 TX+ NTN Band 255 M CH 3.75k 1SC0  |          |        |        |        |       |        |        |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| ANT         | 1   |          |        |        |        |       |        |        |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| Pol.        | Horizontal  | Vertical |        |        |        |       |        |        |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| QP/<br>Peak | <div><p>Site : 03CH16-HY<br/>Condition: QP 3m CBL6111D&amp;00802NID01N-06_47020 &amp; 06_241005 HORIZONTAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30.97</td><td>20.90</td><td>40.00</td><td>-19.10</td><td>28.31</td><td>24.25</td><td>0.90</td><td>32.61</td><td>0.05</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>185.20</td><td>36.05</td><td>43.50</td><td>-7.45</td><td>51.01</td><td>15.14</td><td>2.12</td><td>32.30</td><td>0.08</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>252.13</td><td>30.16</td><td>46.00</td><td>-15.84</td><td>41.10</td><td>18.94</td><td>2.46</td><td>32.41</td><td>0.07</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>468.44</td><td>25.20</td><td>46.00</td><td>-20.80</td><td>31.00</td><td>23.35</td><td>3.37</td><td>32.66</td><td>0.14</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>710.94</td><td>31.59</td><td>46.00</td><td>-14.41</td><td>32.62</td><td>26.85</td><td>4.14</td><td>32.16</td><td>0.14</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>786.60</td><td>36.72</td><td>46.00</td><td>-9.28</td><td>36.21</td><td>28.13</td><td>4.35</td><td>32.17</td><td>0.20</td><td>--</td><td>Peak</td></tr><tr><td>7</td><td>914.64</td><td>109.79</td><td>-----</td><td>-----</td><td>107.42</td><td>29.59</td><td>4.71</td><td>32.12</td><td>0.19</td><td>100</td><td>11 Peak</td></tr></table></div> |          | Limit  | Read   | Ant    | Cable | Preamp | Aux    | APos   | TPos |         | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 | 30.97 | 20.90 | 40.00 | -19.10 | 28.31 | 24.25 | 0.90 | 32.61 | 0.05 | -- | Peak | 2 | 185.20 | 36.05 | 43.50 | -7.45 | 51.01 | 15.14 | 2.12 | 32.30 | 0.08 | -- | Peak | 3 | 252.13 | 30.16 | 46.00 | -15.84 | 41.10 | 18.94 | 2.46 | 32.41 | 0.07 | -- | Peak | 4 | 468.44 | 25.20 | 46.00 | -20.80 | 31.00 | 23.35 | 3.37 | 32.66 | 0.14 | -- | Peak | 5 | 710.94 | 31.59 | 46.00 | -14.41 | 32.62 | 26.85 | 4.14 | 32.16 | 0.14 | -- | Peak | 6 | 786.60 | 36.72 | 46.00 | -9.28 | 36.21 | 28.13 | 4.35 | 32.17 | 0.20 | -- | Peak | 7 | 914.64 | 109.79 | ----- | ----- | 107.42 | 29.59 | 4.71 | 32.12 | 0.19 | 100 | 11 Peak | <div><p>Site : 03CH16-HY<br/>Condition: QP 3m CBL6111D&amp;00802NID01N-06_47020 &amp; 06_241005 VERTICAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>64.92</td><td>22.91</td><td>40.00</td><td>-17.09</td><td>41.74</td><td>12.17</td><td>1.25</td><td>32.30</td><td>0.05</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>187.14</td><td>36.97</td><td>43.50</td><td>-6.53</td><td>52.04</td><td>15.06</td><td>2.13</td><td>32.34</td><td>0.08</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>252.13</td><td>24.33</td><td>46.00</td><td>-21.67</td><td>35.27</td><td>18.94</td><td>2.46</td><td>32.41</td><td>0.07</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>472.32</td><td>24.58</td><td>46.00</td><td>-21.42</td><td>30.36</td><td>23.39</td><td>3.38</td><td>32.69</td><td>0.14</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>741.01</td><td>29.55</td><td>46.00</td><td>-16.45</td><td>28.96</td><td>28.31</td><td>4.23</td><td>32.09</td><td>0.14</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>882.63</td><td>32.96</td><td>46.00</td><td>-13.04</td><td>31.35</td><td>29.05</td><td>4.63</td><td>32.24</td><td>0.17</td><td>--</td><td>Peak</td></tr><tr><td>7</td><td>914.64</td><td>110.25</td><td>-----</td><td>-----</td><td>107.88</td><td>29.59</td><td>4.71</td><td>32.12</td><td>0.19</td><td>100</td><td>97 Peak</td></tr></table></div> |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 | 64.92 | 22.91 | 40.00 | -17.09 | 41.74 | 12.17 | 1.25 | 32.30 | 0.05 | -- | Peak | 2 | 187.14 | 36.97 | 43.50 | -6.53 | 52.04 | 15.06 | 2.13 | 32.34 | 0.08 | -- | Peak | 3 | 252.13 | 24.33 | 46.00 | -21.67 | 35.27 | 18.94 | 2.46 | 32.41 | 0.07 | -- | Peak | 4 | 472.32 | 24.58 | 46.00 | -21.42 | 30.36 | 23.39 | 3.38 | 32.69 | 0.14 | -- | Peak | 5 | 741.01 | 29.55 | 46.00 | -16.45 | 28.96 | 28.31 | 4.23 | 32.09 | 0.14 | -- | Peak | 6 | 882.63 | 32.96 | 46.00 | -13.04 | 31.35 | 29.05 | 4.63 | 32.24 | 0.17 | -- | Peak | 7 | 914.64 | 110.25 | ----- | ----- | 107.88 | 29.59 | 4.71 | 32.12 | 0.19 | 100 | 97 Peak |
|             | Limit   | Read     | Ant    | Cable  | Preamp | Aux   | APos   | TPos   |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| Freq        | Level   | Line     | Margin | Level  | Factor | Loss  | Factor | Factor | Remark |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| MHz         | dBuV/m  | dBuV/m   | dB     | dBuV   | dB/m   | dB    | dB     | dB     | cm     | deg  |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 1           | 30.97   | 20.90    | 40.00  | -19.10 | 28.31  | 24.25 | 0.90   | 32.61  | 0.05   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 2           | 185.20  | 36.05    | 43.50  | -7.45  | 51.01  | 15.14 | 2.12   | 32.30  | 0.08   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 3           | 252.13  | 30.16    | 46.00  | -15.84 | 41.10  | 18.94 | 2.46   | 32.41  | 0.07   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 4           | 468.44  | 25.20    | 46.00  | -20.80 | 31.00  | 23.35 | 3.37   | 32.66  | 0.14   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 5           | 710.94  | 31.59    | 46.00  | -14.41 | 32.62  | 26.85 | 4.14   | 32.16  | 0.14   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 6           | 786.60  | 36.72    | 46.00  | -9.28  | 36.21  | 28.13 | 4.35   | 32.17  | 0.20   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 7           | 914.64  | 109.79   | -----  | -----  | 107.42 | 29.59 | 4.71   | 32.12  | 0.19   | 100  | 11 Peak |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
|             | Limit   | Read     | Ant    | Cable  | Preamp | Aux   | APos   | TPos   |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| Freq        | Level   | Line     | Margin | Level  | Factor | Loss  | Factor | Factor | Remark |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| MHz         | dBuV/m  | dBuV/m   | dB     | dBuV   | dB/m   | dB    | dB     | dB     | cm     | deg  |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 1           | 64.92   | 22.91    | 40.00  | -17.09 | 41.74  | 12.17 | 1.25   | 32.30  | 0.05   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 2           | 187.14  | 36.97    | 43.50  | -6.53  | 52.04  | 15.06 | 2.13   | 32.34  | 0.08   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 3           | 252.13  | 24.33    | 46.00  | -21.67 | 35.27  | 18.94 | 2.46   | 32.41  | 0.07   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 4           | 472.32  | 24.58    | 46.00  | -21.42 | 30.36  | 23.39 | 3.38   | 32.69  | 0.14   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 5           | 741.01  | 29.55    | 46.00  | -16.45 | 28.96  | 28.31 | 4.23   | 32.09  | 0.14   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 6           | 882.63  | 32.96    | 46.00  | -13.04 | 31.35  | 29.05 | 4.63   | 32.24  | 0.17   | --   | Peak    |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
| 7           | 914.64  | 110.25   | -----  | -----  | 107.88 | 29.59 | 4.71   | 32.12  | 0.19   | 100  | 97 Peak |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |
|             |   |          |        |        |        |       |        |        |        |      |         |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |   |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |     |        |        |    |      |      |    |    |    |    |     |   |       |       |       |        |       |       |      |       |      |    |      |   |        |       |       |       |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |       |       |        |       |       |      |       |      |    |      |   |        |        |       |       |        |       |      |       |      |     |         |



## Appendix B. Duty Cycle Plots

| Band                   | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|------------------------|---------------|-------|----------|-------------|
| Lora BW 500KHz SF 8 TX | 14.82         | 17700 | 0.06     | 100Hz       |

