



# FCC RADIO TEST REPORT

**FCC ID** : HLZA24007  
**Equipment** : Tablet PC  
**Brand Name** : acer  
**Model Name** : A24007  
**Marketing Name** : Acer Iconia V10, V10-21  
**Applicant** : Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,  
New Taipei City 22181, Taiwan (R.O.C)  
**Manufacturer** : Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,  
New Taipei City 22181, Taiwan (R.O.C)  
**Standard** : FCC Part 15 Subpart C §15.247

The product was received on Aug. 20, 2024 and testing was performed from Aug. 30, 2024 to Sep. 20, 2024. 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.

*Louis Wu*

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    |
|------------|---------|--|---------------|
| FR482028A  | 01      | Initial issue of report  | Oct. 09, 2024 |
| FR482028A  | 02      | Revise Product Feature<br>This report is an updated version, replacing the report issued on Oct. 09, 2024. | Oct. 15, 2024 |
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### Summary of Test Result

| Report Clause | Ref Std. Clause              | Test Items   | Result (PASS/FAIL) | Remark                               |
|---------------|------------------------------|--|--------------------|--------------------------------------|
| 3.1           | 15.247(a)(1)                 | Number of Channels                                 | Pass               | -                                    |
| 3.2           | 15.247(a)(1)                 | Hopping Channel Separation                         | Pass               | -                                    |
| 3.3           | 15.247(a)(1)                 | Dwell Time of Each Channel                         | Pass               | -                                    |
| 3.4           | 15.247(a)(1)                 | 20dB Bandwidth                                     | Pass               | -                                    |
| 3.4           | 2.1049                       | 99% Occupied Bandwidth                             | Pass               | -                                    |
| 3.5           | 15.247(b)(1)<br>15.247(b)(4) | Peak Output Power                                  | Pass               | -                                    |
| 3.6           | 15.247(d)                    | Conducted Band Edges                               | Pass               | -                                    |
| 3.7           | 15.247(d)                    | Conducted Spurious Emission                        | Pass               | -                                    |
| 3.8           | 15.247(d)                    | Radiated Band Edges and Radiated Spurious Emission | Pass               | 6.31 dB under the limit at 45.52 MHz |
| 3.9           | 15.207                       | AC Conducted Emission                              | Pass               | 18.05 dB under the limit at 0.20 MHz |
| 3.10          | 15.203                       | Antenna Requirement                                | Pass               | -                                    |

**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/manufacturer 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: Wei Chen**

**Report Producer: Michelle Chen**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature   |                 |       |
|---|-----------------|-------|
| <b>General Specs</b><br>Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and GNSS.                     |                 |       |
| <b>Antenna Type</b><br>WLAN: PIFA Antenna<br>Bluetooth: PIFA Antenna<br>GPS / Glonass / BDS / Galileo: PIFA Antenna |                 |       |
| Antenna information   |                 |       |
| 2400 MHz ~ 2483.5 MHz   | Peak Gain (dBi) | -0.45 |

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

| SKU List            |  |  |  |  |
|---------------------|--|--|--|--|
| Model               | SKU1_4G+64G  | SKU2_4G+64G  | SKU3_4G+128G   | SKU4_4G+128G   |
| <b>RAM</b>          | Shenzhen Longsys Electronics Co., Ltd.<br>MLXC4004G-W6     | SHENZHEN GCAIELECTRONICTECHNOLOGY Co., Ltd.<br>GD84D32MJ0-42C2 | Shenzhen Longsys Electronics Co., Ltd.<br>MLXC4004G-W6     | SHENZHEN GCAIELECTRONICTECHNOLOGY Co., Ltd.<br>GD84D32MJ0-42C2 |
| <b>ROM</b>          | Shenzhen Longsys Electronics Co., Ltd.<br>FEMDNN064G-A3A55 | Shenzhen Techwinsemi Technology Co., Ltd.<br>UEMCGS63S0        | Shenzhen Longsys Electronics Co., Ltd.<br>FEMDNN128G-A3V01 | Shenzhen Techwinsemi Technology Co., Ltd.<br>UEMDGS63S0        |
| <b>Front Camera</b> | SHENZHEN KE YI TAI ELECTRONIC Co., Ltd.<br>GC05A2 5M       | Shenzhen Hongyou Electronic Technology Co., Ltd.<br>GC05A2 5M  | SHENZHEN KE YI TAI ELECTRONIC Co., Ltd.<br>GC05A2 5M       | Shenzhen Hongyou Electronic Technology Co., Ltd.<br>GC05A2 5M  |
| <b>Rear Camera</b>  | SHENZHEN KE YI TAI ELECTRONIC Co., Ltd.<br>S5K4H8 8M       | Shenzhen Hongyou Electronic Technology Co., Ltd.<br>S5K4H8 8M  | SHENZHEN KE YI TAI ELECTRONIC Co., Ltd.<br>S5K4H8 8M       | Shenzhen Hongyou Electronic Technology Co., Ltd.<br>S5K4H8 8M  |



### 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>TH05-HY, CO07-HY, 03CH20-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

**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.



## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency Channel

| Frequency Band  | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|-------------|---------|-------------|---------|-------------|
| 2400-2483.5 MHz | 0       | 2402        | 27      | 2429        | 54      | 2456        |
|                 | 1       | 2403        | 28      | 2430        | 55      | 2457        |
|                 | 2       | 2404        | 29      | 2431        | 56      | 2458        |
|                 | 3       | 2405        | 30      | 2432        | 57      | 2459        |
|                 | 4       | 2406        | 31      | 2433        | 58      | 2460        |
|                 | 5       | 2407        | 32      | 2434        | 59      | 2461        |
|                 | 6       | 2408        | 33      | 2435        | 60      | 2462        |
|                 | 7       | 2409        | 34      | 2436        | 61      | 2463        |
|                 | 8       | 2410        | 35      | 2437        | 62      | 2464        |
|                 | 9       | 2411        | 36      | 2438        | 63      | 2465        |
|                 | 10      | 2412        | 37      | 2439        | 64      | 2466        |
|                 | 11      | 2413        | 38      | 2440        | 65      | 2467        |
|                 | 12      | 2414        | 39      | 2441        | 66      | 2468        |
|                 | 13      | 2415        | 40      | 2442        | 67      | 2469        |
|                 | 14      | 2416        | 41      | 2443        | 68      | 2470        |
|                 | 15      | 2417        | 42      | 2444        | 69      | 2471        |
|                 | 16      | 2418        | 43      | 2445        | 70      | 2472        |
|                 | 17      | 2419        | 44      | 2446        | 71      | 2473        |
|                 | 18      | 2420        | 45      | 2447        | 72      | 2474        |
|                 | 19      | 2421        | 46      | 2448        | 73      | 2475        |
|                 | 20      | 2422        | 47      | 2449        | 74      | 2476        |
|                 | 21      | 2423        | 48      | 2450        | 75      | 2477        |
|                 | 22      | 2424        | 49      | 2451        | 76      | 2478        |
|                 | 23      | 2425        | 50      | 2452        | 77      | 2479        |
|                 | 24      | 2426        | 51      | 2453        | 78      | 2480        |
|                 | 25      | 2427        | 52      | 2454        | -       | -           |
|                 | 26      | 2428        | 53      | 2455        | -       | -           |



## 2.2 Test Mode

- 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: conduction emission (150 kHz to 30 MHz), 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 plane, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| Summary table of Test Cases  |   |   |                                   |
|--|---|---|-----------------------------------|
| Test Item  | Data Rate / Modulation  |   |                                   |
| <b>Conducted Test Cases</b>  | <b>Bluetooth BR 1Mbps GFSK</b>  | <b>Bluetooth EDR 2Mbps <math>\pi/4</math>-DQPSK</b> | <b>Bluetooth EDR 3Mbps 8-DPSK</b> |
|  | Mode 1: CH00_2402 MHz   | Mode 4: CH00_2402 MHz                               | Mode 7: CH00_2402 MHz             |
|  | Mode 2: CH39_2441 MHz   | Mode 5: CH39_2441 MHz                               | Mode 8: CH39_2441 MHz             |
|  | Mode 3: CH78_2480 MHz   | Mode 6: CH78_2480 MHz                               | Mode 9: CH78_2480 MHz             |
| <b>Radiated Test Cases</b>   | <b>Bluetooth BR 1Mbps GFSK</b>  |   |                                   |
|  | Mode 1: CH00_2402 MHz   |   |                                   |
|  | Mode 2: CH39_2441 MHz   |   |                                   |
|  | Mode 3: CH78_2480 MHz   |   |                                   |
| <b>AC Conducted Emission</b>   | Mode 1 :WLAN (2.4GHz) Link + Bluetooth Link + USB Cable (Charging from AC Adapter) + Battery for SKU4_4G+128G |   |                                   |
| <b>Remark:</b>   |   |   |                                   |
| 1. For Radiated Test Cases, the worst mode data rate 1Mbps was reported only since the highest RF output power in the preliminary tests. The conducted spurious emissions and conducted band edge measurement for other data rates were not worse than 1Mbps, and no other significantly frequencies found in conducted spurious emission. |   |   |                                   |
| 2. For Radiated Test Cases, the tests were performed with SKU4_4G+128G.  |   |   |                                   |



### 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.   | Bluetooth Earphone | Sony Ericsson | MW600         | PY7DDA-2029 | N/A        | N/A  |
| 2.   | WLAN AP            | Netgear       | RAXE500       | PY320300508 | N/A        | Unshielded, 1.8 m  |
| 3.   | Notebook           | DELL          | Latitude 3400 | FCC DoC     | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 4.   | Earphone           | MOTO          | JYN1181B      | N/A         | N/A        | Unshielded, 1.2 m  |



## 2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: Acer\_AV0U0\_M10-21\_RV00RB01\_PAPAP\_GEN1) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 Number of Channel Measurement

##### 3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.3.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW = 300 kHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

## 3.2 Hopping Channel Separation Measurement

### 3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.2.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:  
Span = wide enough to capture the peaks of two adjacent channels;  
RBW = 300 kHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.

### 3.3 Dwell Time Measurement

#### 3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.4.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW  $\geq$  RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

### 3.4 20dB and 99% Bandwidth Measurement

#### 3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Use the following spectrum analyzer settings for 20 dB Bandwidth measurement.  
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;  
RBW  $\geq$  1% of the 20 dB bandwidth; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak;  
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.  
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;  
RBW  $\geq$  1-5% of the 99% bandwidth; VBW  $\geq$  3 \* RBW; Sweep = auto; Detector function = peak;  
Trace = max hold.
6. Measure and record the results in the test report.

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of 20dB Bandwidth

Please refer to Appendix A.

#### 3.4.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

## 3.5 Output Power Measurement

### 3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:  
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.  
If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi.

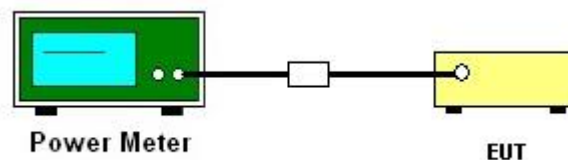
### 3.5.2 Measuring Instruments

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

### 3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

### 3.5.4 Test Setup



### 3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.

### 3.5.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

## 3.6 Conducted Band Edges Measurement

### 3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

### 3.6.2 Measuring Instruments

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

### 3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.6.
2. Set the maximum power setting and enable the EUT to transmit continuously.
3. Set RBW = 100 kHz, VBW = 300 kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2 and 3.
5. Measure and record the results in the test report.

### 3.6.4 Test Setup



### 3.6.5 Test Result of Conducted Band Edges

Please refer to Appendix A.

### 3.6.6 Test Result of Conducted Hopping Mode Band Edges

Please refer to Appendix A.



## 3.7 Conducted Spurious Emission Measurement

### 3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

### 3.7.2 Measuring Instruments

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

### 3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, scan up through 10th harmonic. All harmonics / spurious must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.7.4 Test Setup



### 3.7.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A.



### 3.8 Radiated Band Edges and Spurious Emission Measurement

#### 3.8.1 Limit of Radiated Band Edges and Spurious Emission

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. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (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                             |

#### 3.8.2 Measuring Instruments

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

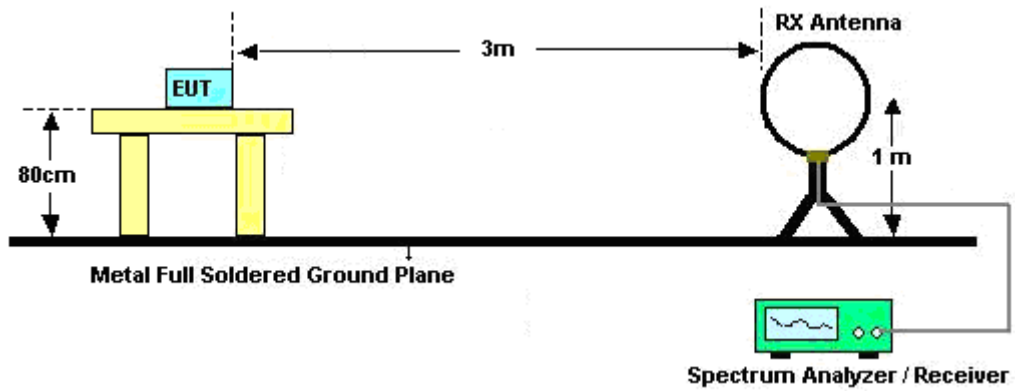
**3.8.3 Test Procedures**

1. 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.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
3. For each suspected emission, 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 to comply with the guidelines.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. 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, RBW = 1 MHz for  $f > 1$  GHz ; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
  - (3) For average measurement: use duty cycle correction factor method per 15.35(c).  
Duty cycle = On time/100 milliseconds  
On time =  $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$   
Where  $N_1$  is number of type 1 pulses,  $L_1$  is length of type 1 pulses, etc.  
Average Emission Level = Peak Emission Level +  $20 * \log$  (Duty cycle)
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. 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 “-“.
8. 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 “-“.

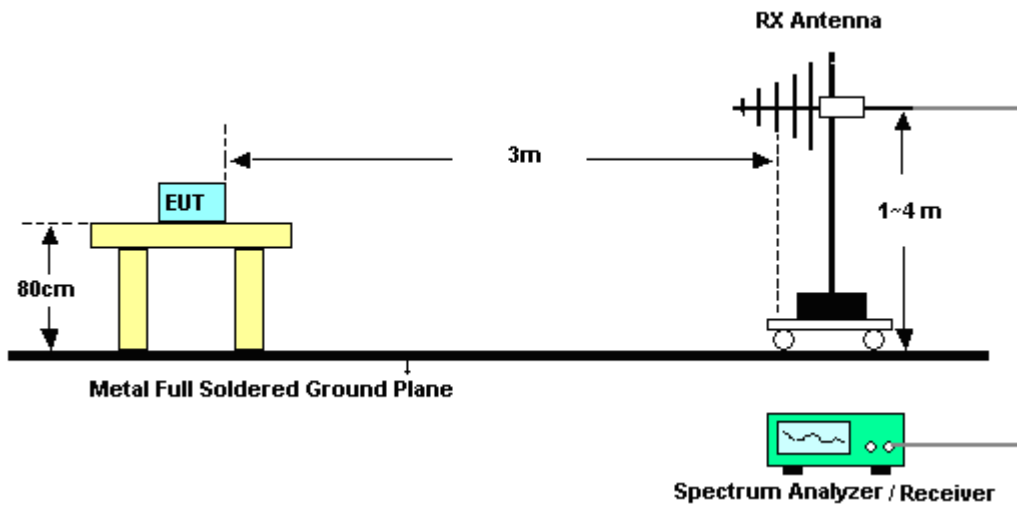
Note: The average levels are calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from  $20 \log$  (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

### 3.8.4 Test Setup

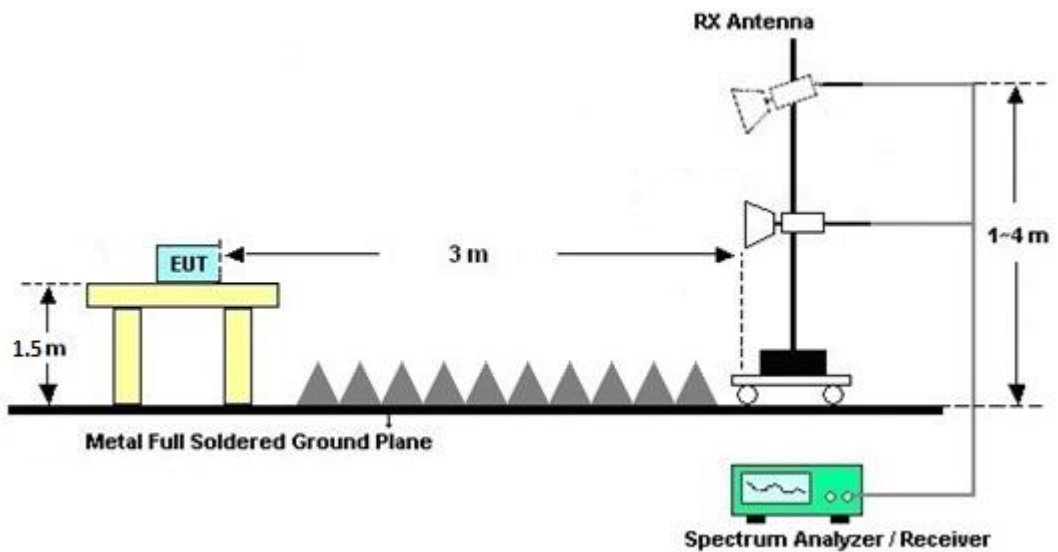
For radiated test below 30MHz



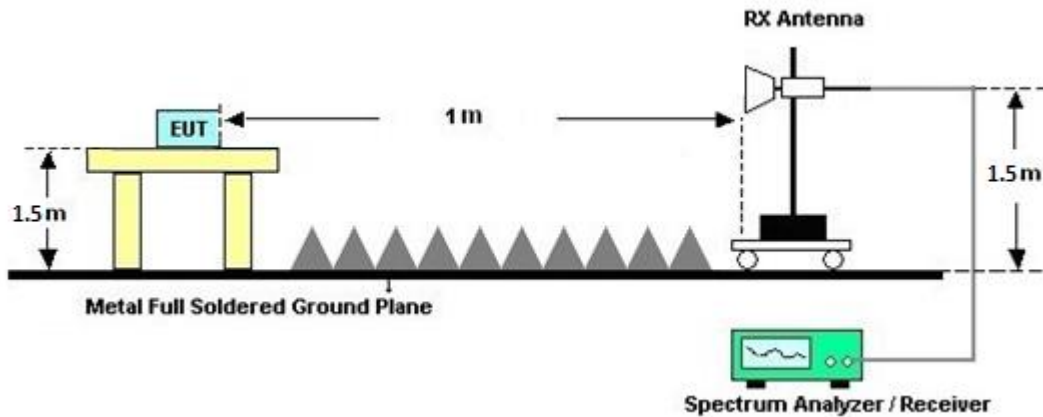
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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.

### 3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

### 3.8.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.



### 3.9 AC Conducted Emission Measurement

#### 3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dBµV) |           |
|-----------------------------|------------------------|-----------|
|                             | Quasi-peak             | Average   |
| 0.15-0.5                    | 66 to 56*              | 56 to 46* |
| 0.5-5                       | 56                     | 46        |
| 5-30                        | 60                     | 50        |

\*Decreases with the logarithm of the frequency.

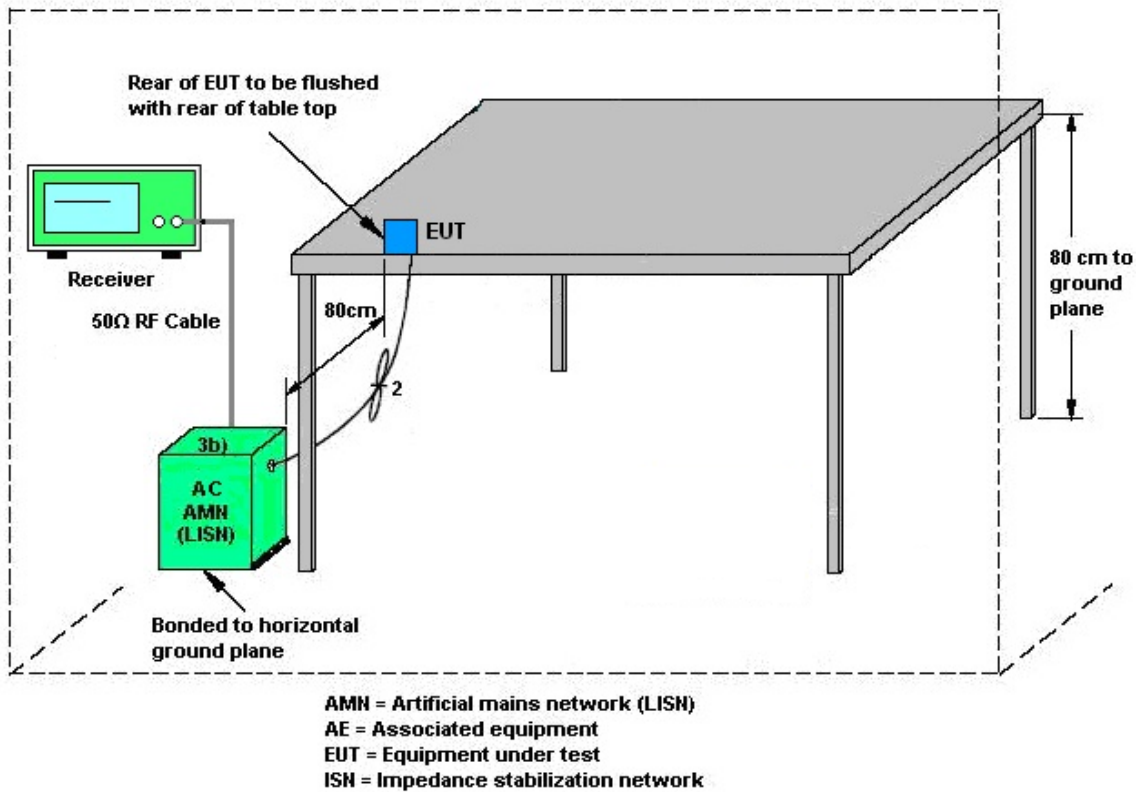
#### 3.9.2 Measuring Instruments

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

#### 3.9.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.9.4 Test Setup



### 3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.10 Antenna Requirements**

### **3.10.1 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.

### **3.10.2 Antenna Anti-Replacement Construction**

Antenna permanently attached.





## 4 List of Measuring Equipment

| Instrument               | Brand Name      | Model No.                       | Serial No.                         | Characteristics               | Calibration Date | Test Date                       | Due Date      | Remark                |
|--------------------------|-----------------|---------------------------------|------------------------------------|-------------------------------|------------------|---------------------------------|---------------|-----------------------|
| EMI Test Receiver        | Keysight        | N9038A(MXE)                     | MY54130085                         | N/A                           | Oct. 06, 2023    | Sep. 14, 2024~<br>Sep. 20, 2024 | Oct. 05, 2024 | Radiation (03CH20-HY) |
| Loop Antenna             | Rohde & Schwarz | HFH2-Z2                         | 100488                             | 9 kHz~30 MHz                  | Aug. 29, 2024    | Sep. 14, 2024~<br>Sep. 20, 2024 | Aug. 28, 2025 | Radiation (03CH20-HY) |
| Preamplifier             | EMEC            | EM18G40G                        | 060801                             | 18GHz~40GHz                   | May 27, 2024     | Sep. 14, 2024~<br>Sep. 20, 2024 | May 26, 2025  | Radiation (03CH20-HY) |
| Controller               | ChainTek        | 3000-1                          | N/A                                | Control Turn table & Ant Mast | N/A              | Sep. 14, 2024~<br>Sep. 20, 2024 | N/A           | Radiation (03CH20-HY) |
| Antenna Mast             | ChainTek        | MBS-520-1                       | N/A                                | 1m~4m                         | N/A              | Sep. 14, 2024~<br>Sep. 20, 2024 | N/A           | Radiation (03CH20-HY) |
| Turn Table               | ChainTek        | T-200-S-1                       | N/A                                | 0~360 Degree                  | N/A              | Sep. 14, 2024~<br>Sep. 20, 2024 | N/A           | Radiation (03CH20-HY) |
| Signal Analyzer          | Keysight        | N9010B                          | MY60240520                         | N/A                           | Dec. 12, 2023    | Sep. 14, 2024~<br>Sep. 20, 2024 | Dec. 11, 2024 | Radiation (03CH20-HY) |
| Bilog Antenna            | TESEQ           | CBL<br>6111D&00802N1<br>D01N-06 | 55606 & 08                         | 30MHz~1GHz                    | Oct. 20, 2023    | Sep. 14, 2024~<br>Sep. 20, 2024 | Oct. 19, 2024 | Radiation (03CH20-HY) |
| Horn Antenna             | SCHWARZBECK     | BBHA 9120 D                     | 02360                              | 1GHz-18GHz                    | Oct. 30, 2023    | Sep. 14, 2024~<br>Sep. 20, 2024 | Oct. 29, 2024 | Radiation (03CH20-HY) |
| SHF-EHF Horn Antenna     | SCHWARZBECK     | BBHA 9170                       | 1224                               | 18GHz-40GHz                   | Jun. 24, 2024    | Sep. 14, 2024~<br>Sep. 20, 2024 | Jun. 23, 2025 | Radiation (03CH20-HY) |
| Preamplifier             | COM-POWER       | PAM-103                         | 18020201                           | 1MHz-1000MHz                  | Jan. 01, 2024    | Sep. 14, 2024~<br>Sep. 20, 2024 | Dec. 31, 2024 | Radiation (03CH20-HY) |
| Amplifier                | EMCI            | EMC118A45SE                     | 980792                             | N/A                           | Nov. 13, 2023    | Sep. 14, 2024~<br>Sep. 20, 2024 | Nov. 12, 2024 | Radiation (03CH20-HY) |
| RF Cable                 | HUBER + SUHNER  | SUCOFLEX 102                    | 519229/2,804<br>015/2,804027<br>/2 | N/A                           | Jan. 17, 2024    | Sep. 14, 2024~<br>Sep. 20, 2024 | Jan. 16, 2025 | Radiation (03CH20-HY) |
| Hygrometer               | TECPEL          | DTM-303A                        | TP211382                           | N/A                           | Mar. 27, 2024    | Sep. 14, 2024~<br>Sep. 20, 2024 | Mar. 26, 2025 | Radiation (03CH20-HY) |
| Software                 | Audix           | N/A                             | RK-002156                          | N/A                           | N/A              | Sep. 14, 2024~<br>Sep. 20, 2024 | N/A           | Radiation (03CH20-HY) |
| Hygrometer               | TECPEL          | DTM-303A                        | TP201996                           | N/A                           | Nov. 07, 2023    | Aug. 30, 2024~<br>Sep. 04, 2024 | Nov. 06, 2024 | Conducted (TH05-HY)   |
| Power Meter              | Anritsu         | ML2495A                         | 1036004                            | N/A                           | Jul. 04, 2024    | Aug. 30, 2024~<br>Sep. 04, 2024 | Jul. 03, 2025 | Conducted (TH05-HY)   |
| Power Sensor             | Anritsu         | MA2411B                         | 1027253                            | 300MHz~40GHz                  | Jul. 04, 2024    | Aug. 30, 2024~<br>Sep. 04, 2024 | Jul. 03, 2025 | Conducted (TH05-HY)   |
| Signal Analyzer          | Rohde & Schwarz | FSV40                           | 101565                             | 10Hz~40GHz                    | Dec. 19, 2023    | Aug. 30, 2024~<br>Sep. 04, 2024 | Dec. 18, 2024 | Conducted (TH05-HY)   |
| Switch Control Mainframe | Burgeon         | ETF-058                         | EC1300484 (BOX3)                   | N/A                           | May 20, 2024     | Aug. 30, 2024~<br>Sep. 04, 2024 | May 19, 2025  | Conducted (TH05-HY)   |
| Software                 | Sporton         | BTWIFI_Final_version_240513     | N/A                                | Conducted Other Test Item     | N/A              | Aug. 30, 2024~<br>Sep. 04, 2024 | N/A           | Conducted (TH05-HY)   |
| AC Power Source          | ACPOWER         | AFC-11003G                      | F317040033                         | N/A                           | N/A              | Sep. 06, 2024                   | N/A           | Conduction (CO07-HY)  |
| Software                 | Rohde & Schwarz | EMC32 V10.30                    | N/A                                | N/A                           | N/A              | Sep. 06, 2024                   | N/A           | Conduction (CO07-HY)  |
| Pulse Limiter            | SCHWARZBECK     | VTSD 9561-F N                   | 9561-F<br>N00373                   | 9kHz-200MHz                   | Oct. 20, 2023    | Sep. 06, 2024                   | Oct. 19, 2024 | Conduction (CO07-HY)  |
| RF Cable                 | HUBER + SUHNER  | RG 214/U                        | 1358175                            | 9kHz~30MHz                    | Mar. 14, 2024    | Sep. 06, 2024                   | Mar. 13, 2025 | Conduction (CO07-HY)  |
| Two-Line V-Network       | TESEQ           | NNB 51                          | 45051                              | N/A                           | Mar. 10, 2024    | Sep. 06, 2024                   | Mar. 09, 2025 | Conduction (CO07-HY)  |
| Four-Line V-Network      | TESEQ           | NNB 52                          | 36122                              | N/A                           | Mar. 07, 2024    | Sep. 06, 2024                   | Mar. 06, 2025 | Conduction (CO07-HY)  |
| EMI Test Receiver        | Rohde & Schwarz | ESR3                            | 102317                             | 9kHz~3.6GHz                   | Sep. 20, 2023    | Sep. 06, 2024                   | Sep. 19, 2024 | Conduction (CO07-HY)  |



## 5 Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.44 dB |
|---|---------|

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

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.40 dB |
|---|---------|

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

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.50 dB |
|---|---------|

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

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.60 dB |
|---|---------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.40 dB |
|---|---------|

### Appendix A. Test Result of Conducted Test Items

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | Willy Chang           | Temperature:       | 21~25 | °C |
| Test Date:     | 2024/08/30~2024/09/04 | Relative Humidity: | 51~54 | %  |

| <b>TEST RESULTS DATA</b>  |           |     |     |             |               |                     |  |  |           |
|---|-----------|-----|-----|-------------|---------------|---------------------|--|--|-----------|
| <b>20dB and 99% Occupied Bandwidth and Hopping Channel Separation</b> |           |     |     |             |               |                     |  |  |           |
| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | 20db BW (MHz) | 99% Bandwidth (MHz) | Hopping Channel Separation Measurement (MHz) | Hopping Channel Separation Measurement Limit (MHz) | Pass/Fail |
| DH  | 1Mbps     | 1   | 0   | 2402        | 0.776         | 0.721               | 0.986  | 0.5174   | Pass      |
| DH  | 1Mbps     | 1   | 39  | 2441        | 0.777         | 0.723               | 1.003  | 0.5182   | Pass      |
| DH  | 1Mbps     | 1   | 78  | 2480        | 0.777         | 0.723               | 1.003  | 0.5180   | Pass      |
| 2DH   | 2Mbps     | 1   | 0   | 2402        | 1.213         | 1.141               | 1.003  | 0.8086   | Pass      |
| 2DH   | 2Mbps     | 1   | 39  | 2441        | 1.233         | 1.141               | 1.003  | 0.8220   | Pass      |
| 2DH   | 2Mbps     | 1   | 78  | 2480        | 1.206         | 1.139               | 1.003  | 0.8038   | Pass      |
| 3DH   | 3Mbps     | 1   | 0   | 2402        | 1.218         | 1.137               | 1.003  | 0.8118   | Pass      |
| 3DH   | 3Mbps     | 1   | 39  | 2441        | 1.219         | 1.135               | 1.003  | 0.8124   | Pass      |
| 3DH   | 3Mbps     | 1   | 78  | 2480        | 1.216         | 1.131               | 1.003  | 0.8104   | Pass      |

| <b>TEST RESULTS DATA</b> |                             |                                 |                              |                  |              |           |
|--------------------------|-----------------------------|---------------------------------|------------------------------|------------------|--------------|-----------|
| <b>Dwell Time</b>        |                             |                                 |                              |                  |              |           |
| Mod.                     | Hopping Channel Number Rate | Hops Over Occupancy Time (hops) | Package Transfer Time (msec) | Dwell Time (sec) | Limits (sec) | Pass/Fail |
| 2DH5                     | 79                          | 106.670                         | 2.90                         | 0.31             | 0.4          | Pass      |
| 2DH5 (AFH)               | 20                          | 53.330                          | 2.90                         | 0.15             | 0.4          | Pass      |

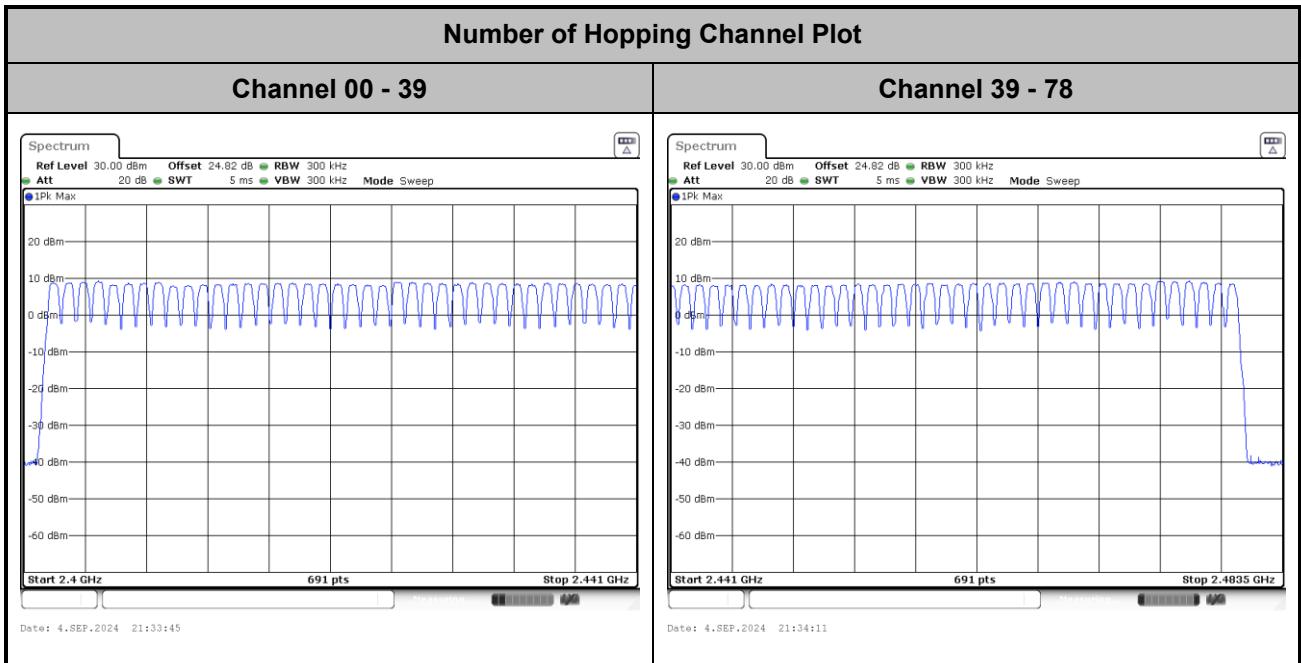
| <b>TEST RESULTS DATA</b> |     |     |                  |                   |             |
|--------------------------|-----|-----|------------------|-------------------|-------------|
| <b>Peak Power Table</b>  |     |     |                  |                   |             |
| DH                       | CH. | NTX | Peak Power (dBm) | Power Limit (dBm) | Test Result |
| DH1                      | 0   | 1   | 10.96            | 20.97             | Pass        |
|                          | 39  | 1   | 10.57            | 20.97             | Pass        |
|                          | 78  | 1   | 10.92            | 20.97             | Pass        |
| 2DH1                     | 0   | 1   | 10.18            | 20.97             | Pass        |
|                          | 39  | 1   | 9.99             | 20.97             | Pass        |
|                          | 78  | 1   | 10.12            | 20.97             | Pass        |
| 3DH1                     | 0   | 1   | 10.14            | 20.97             | Pass        |
|                          | 39  | 1   | 9.86             | 20.97             | Pass        |
|                          | 78  | 1   | 10.09            | 20.97             | Pass        |

| <b>TEST RESULTS DATA</b>   |     |     |                     |                  |
|----------------------------|-----|-----|---------------------|------------------|
| <b>Average Power Table</b> |     |     |                     |                  |
| <b>(Reporting Only)</b>    |     |     |                     |                  |
| DH                         | CH. | NTX | Average Power (dBm) | Duty Factor (dB) |
| DH1                        | 0   | 1   | 10.50               | 5.17             |
|                            | 39  | 1   | 9.96                | 5.17             |
|                            | 78  | 1   | 10.42               | 5.17             |
| 2DH1                       | 0   | 1   | 8.56                | 5.11             |
|                            | 39  | 1   | 8.22                | 5.11             |
|                            | 78  | 1   | 8.40                | 5.11             |
| 3DH1                       | 0   | 1   | 8.32                | 5.11             |
|                            | 39  | 1   | 8.17                | 5.11             |
|                            | 78  | 1   | 8.29                | 5.11             |

| <b>TEST RESULTS DATA</b>           |                                      |                  |           |
|------------------------------------|--------------------------------------|------------------|-----------|
| <b>Number of Hopping Frequency</b> |                                      |                  |           |
| Number of Hopping (Channel)        | Adaptive Frequency Hopping (Channel) | Limits (Channel) | Pass/Fail |
| 79                                 | 20                                   | > 15             | Pass      |



Number of Hopping Frequency

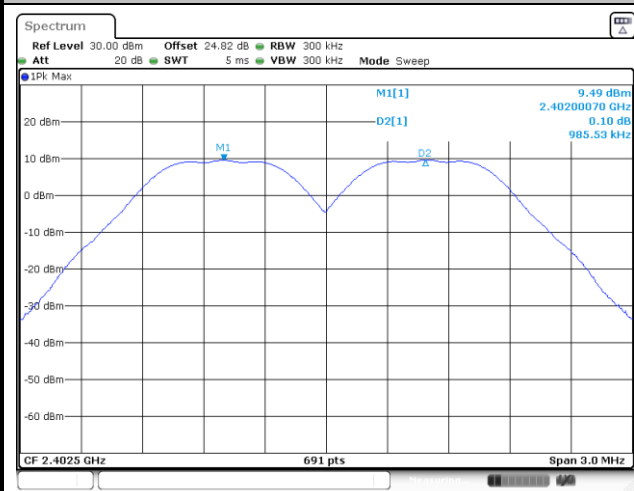




Hopping Channel Separation

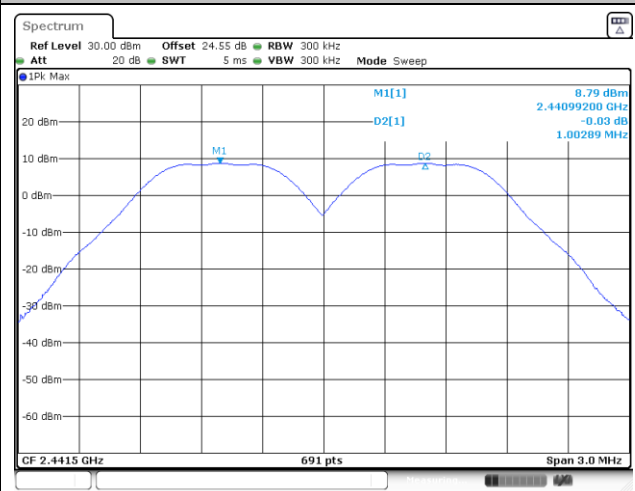
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Channel Separation Plot on Channel 00 - 01



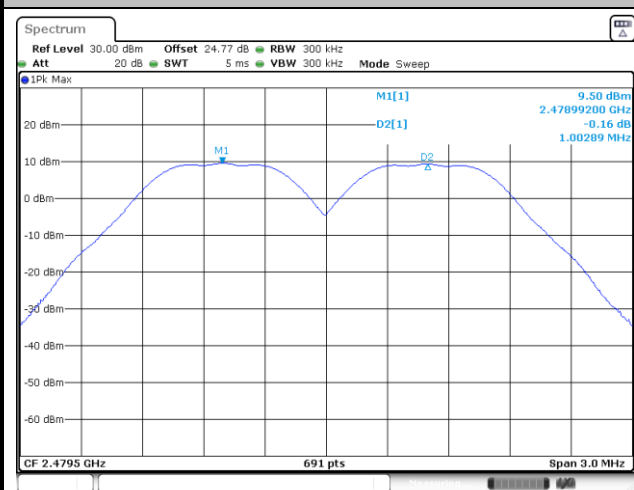
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Channel Separation Plot on Channel 39 - 40



Date: 4.SEP.2024 19:55:43

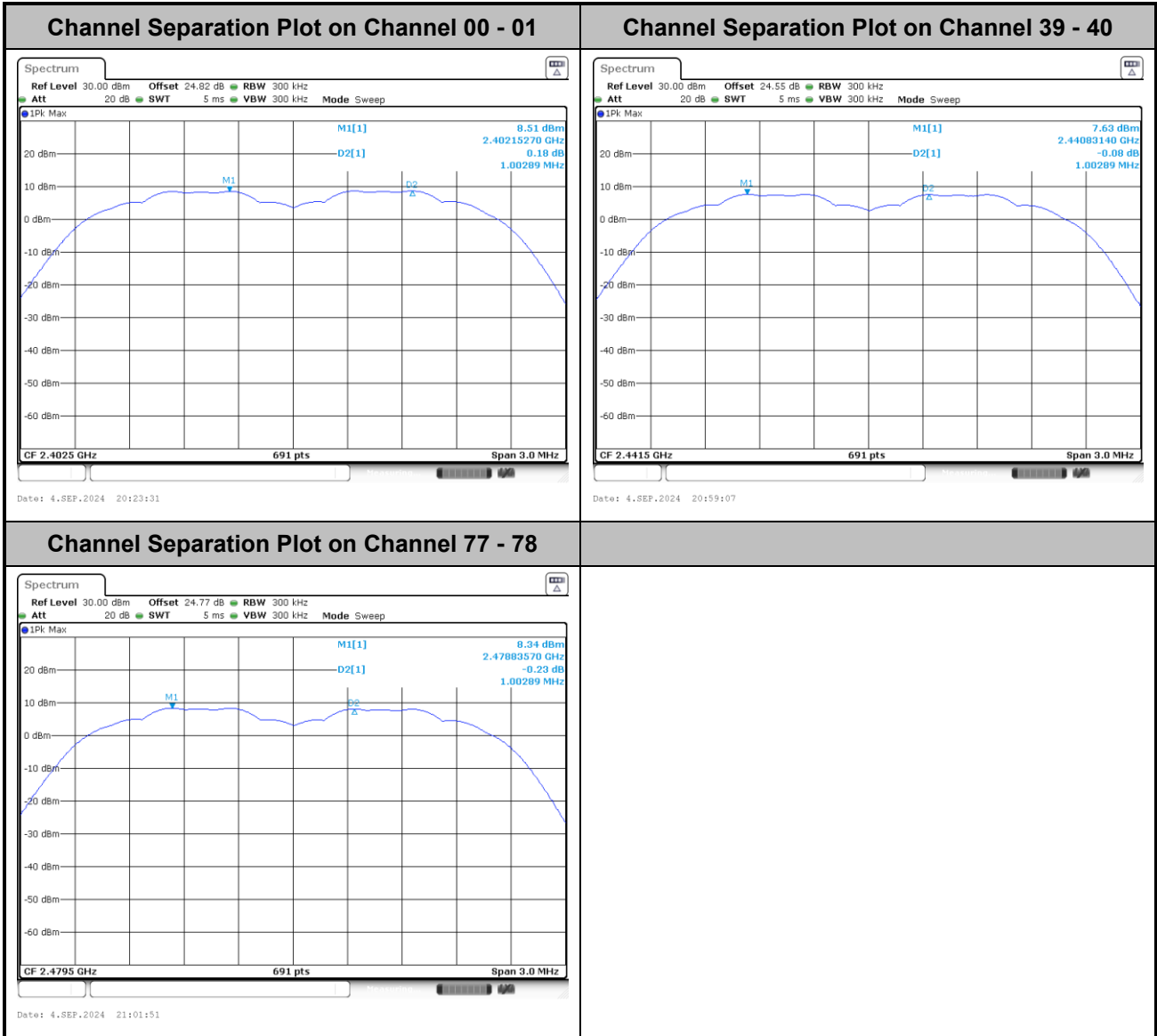
Channel Separation Plot on Channel 77 - 78



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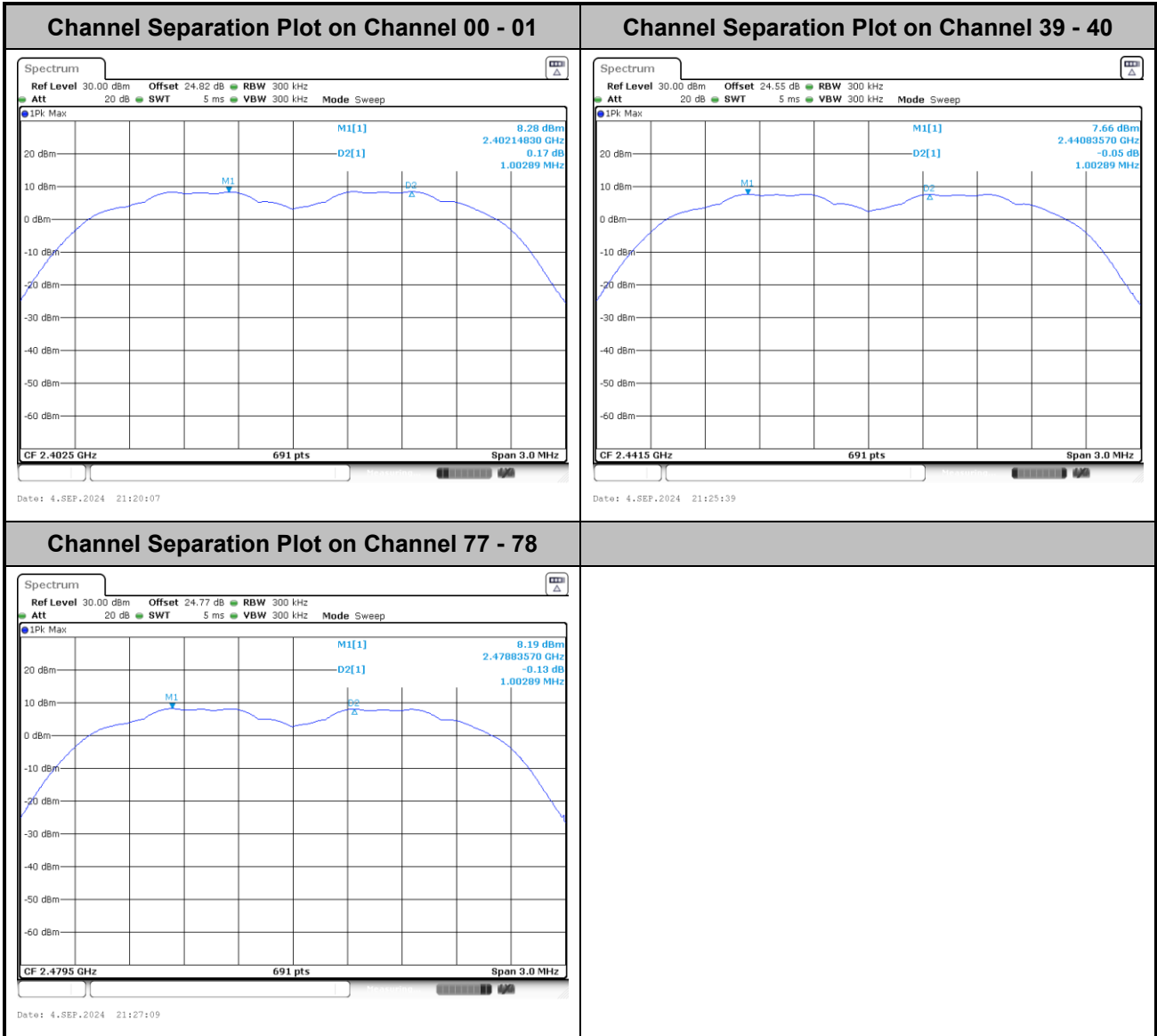


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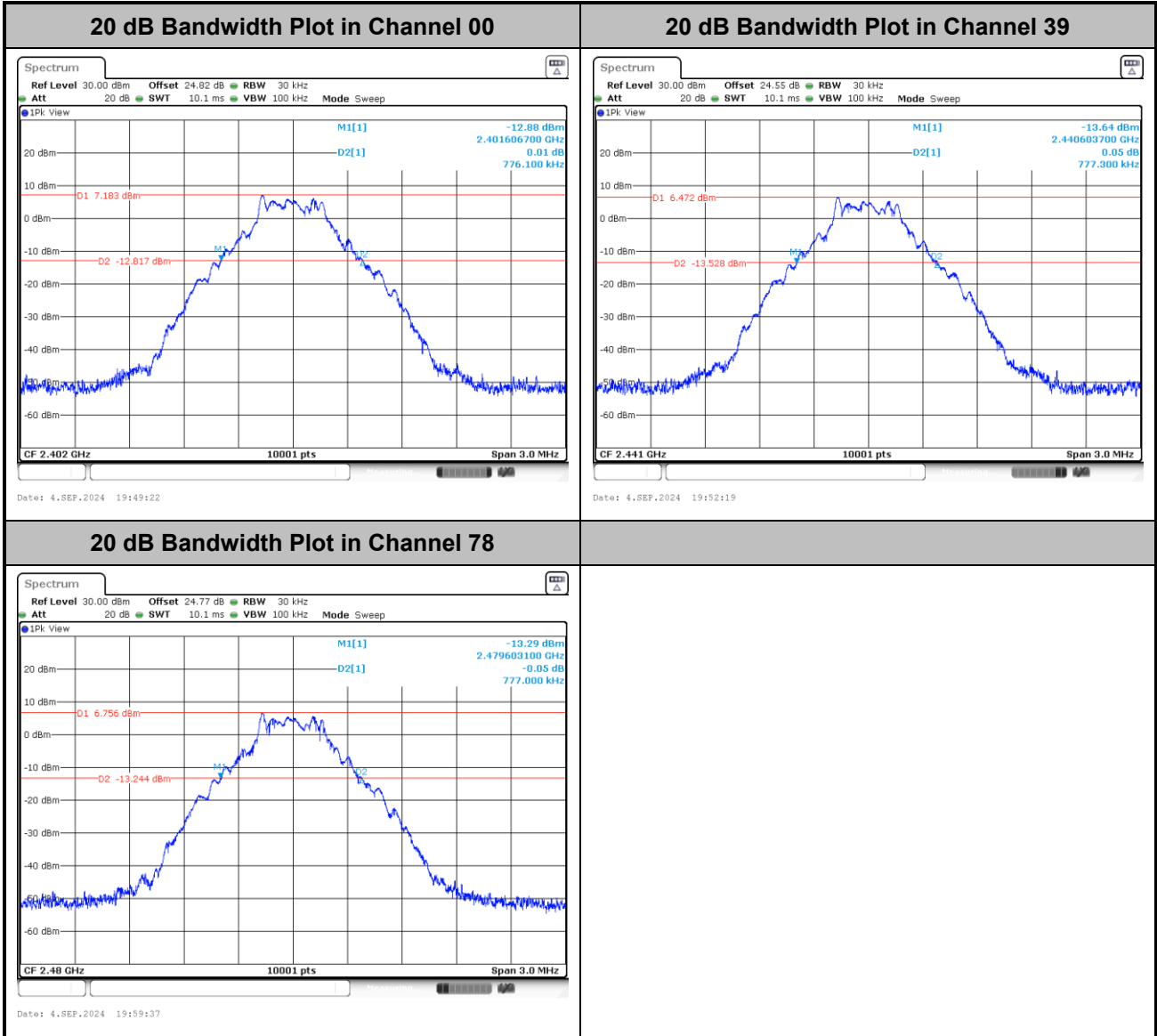
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20dB Bandwidth

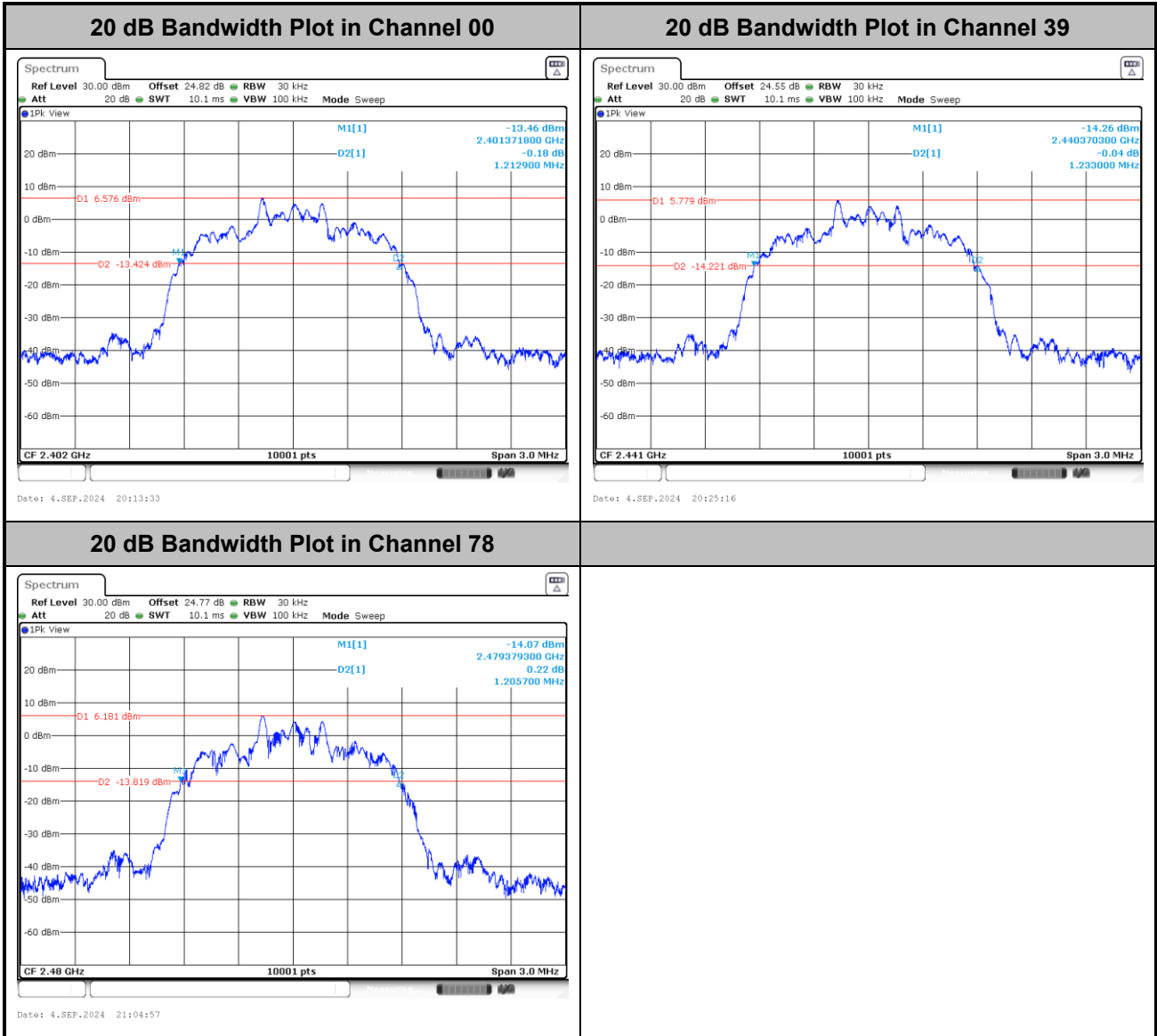
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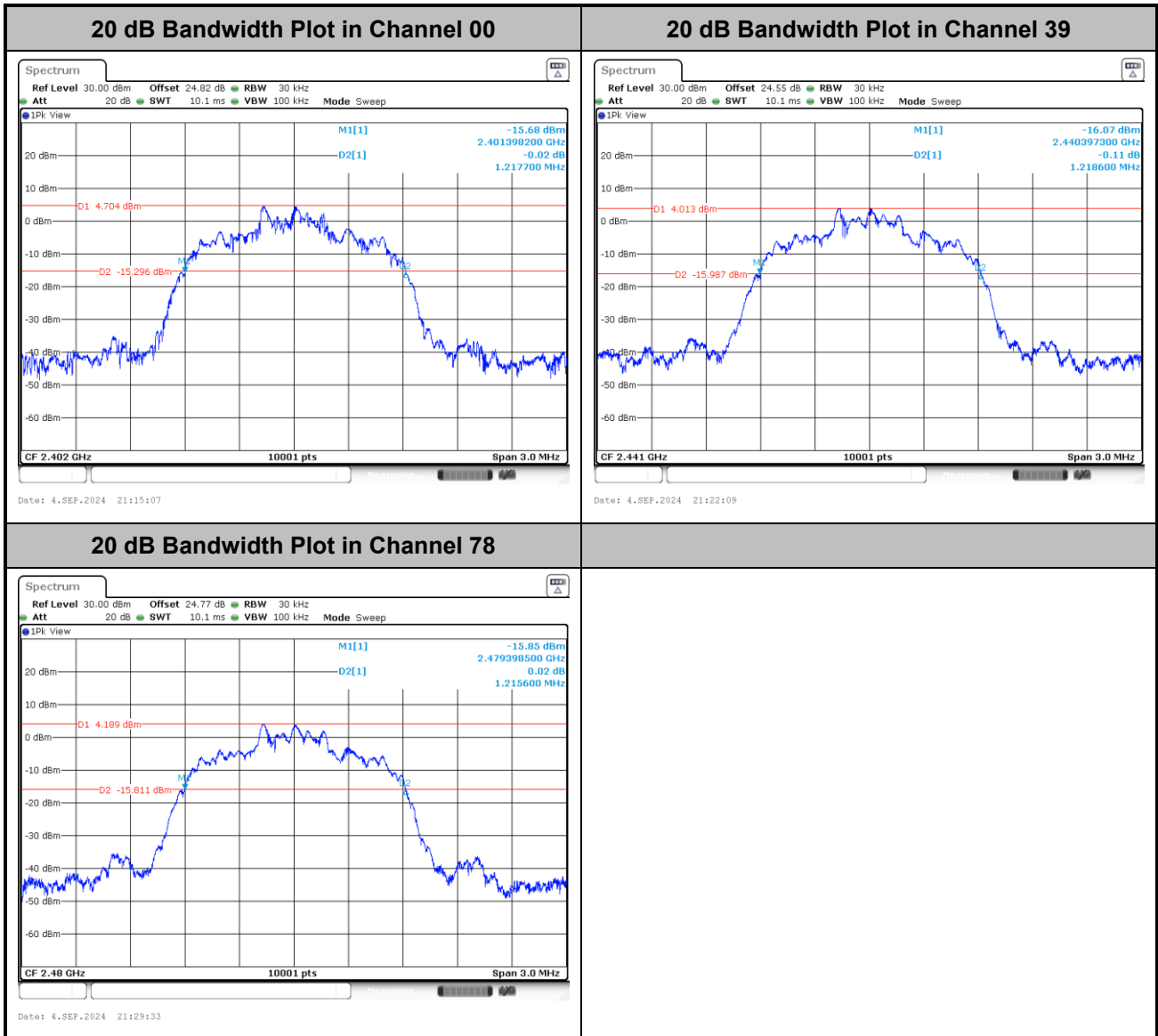


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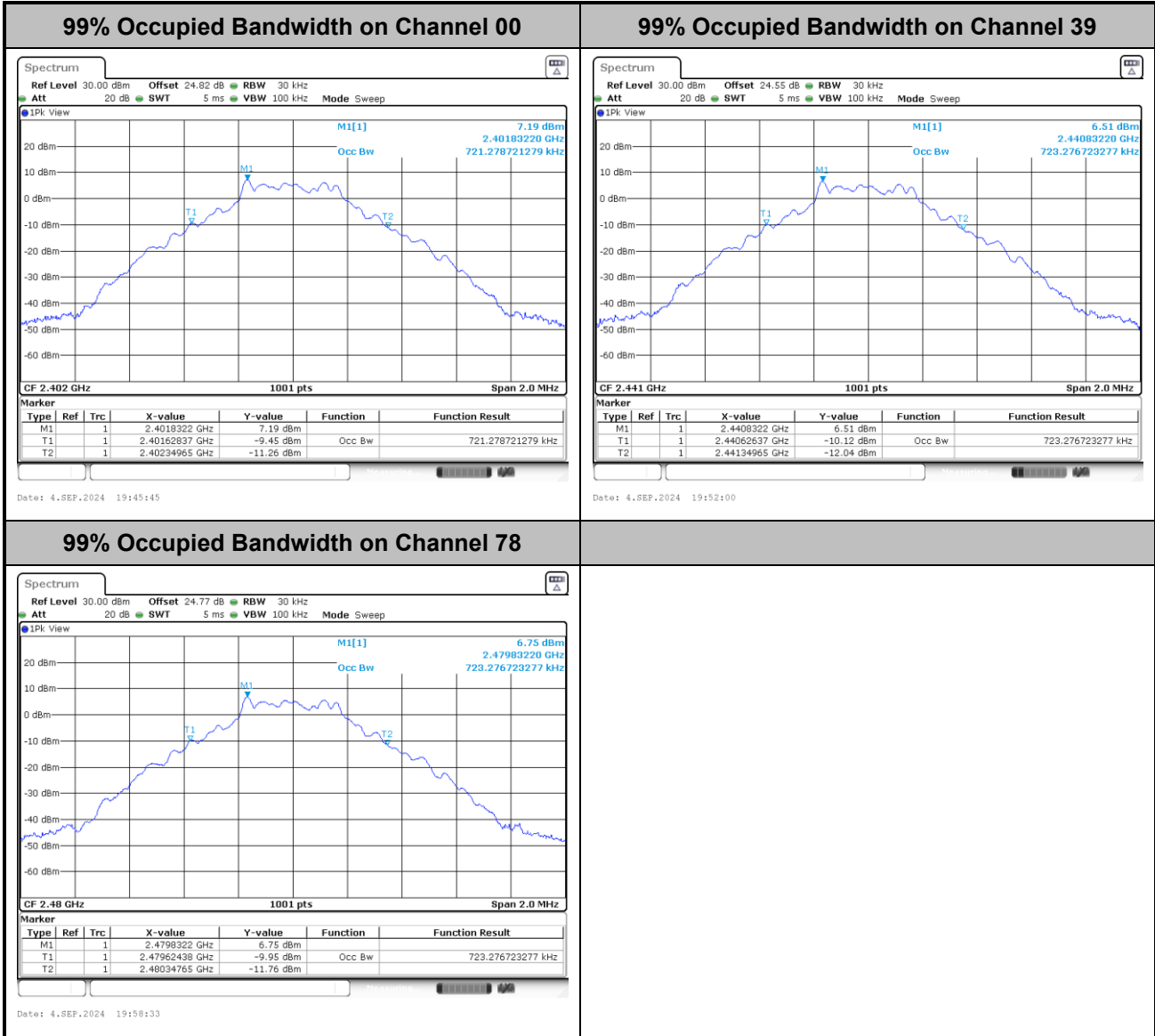
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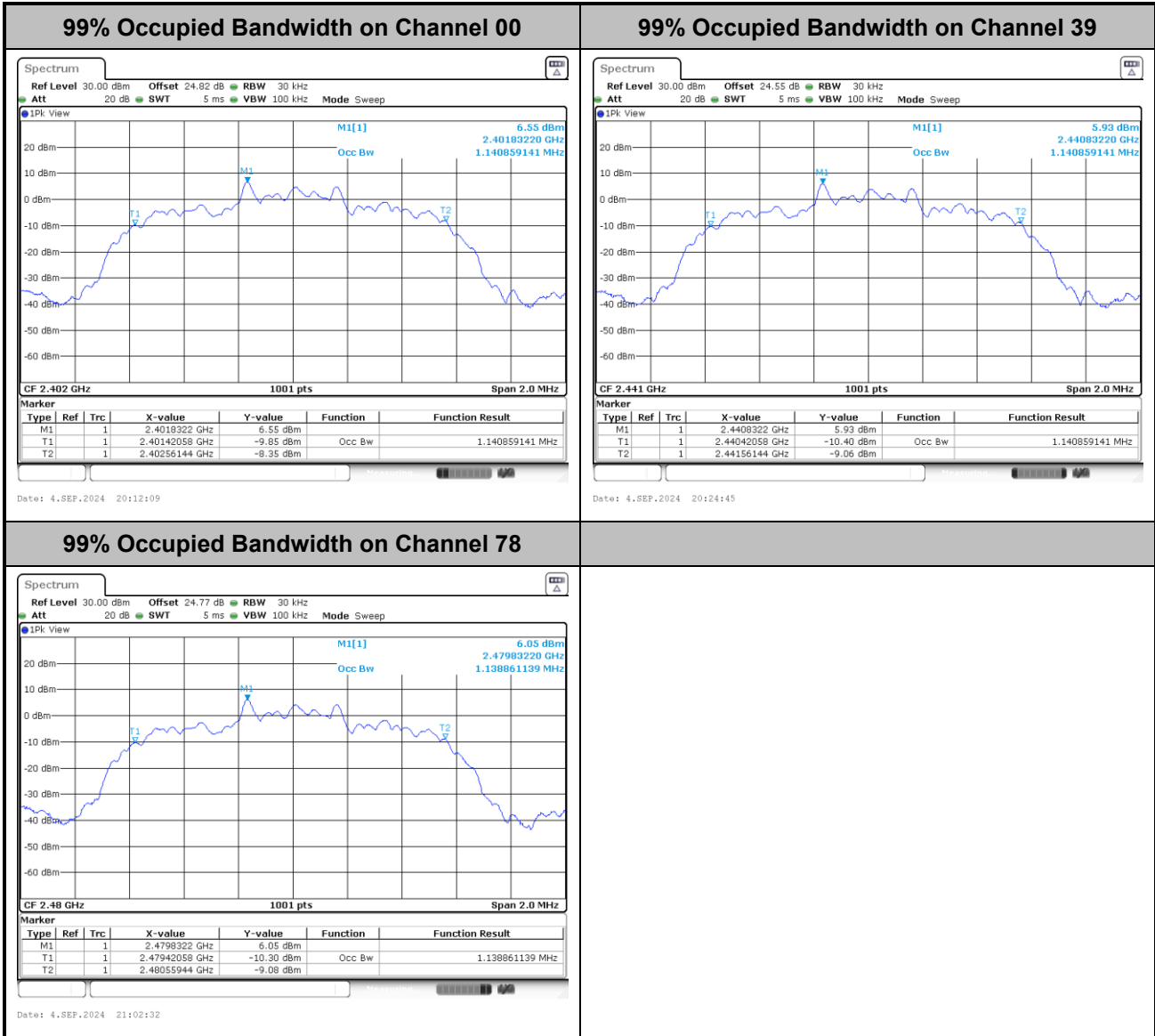
99% Occupied Bandwidth

<1Mbps>





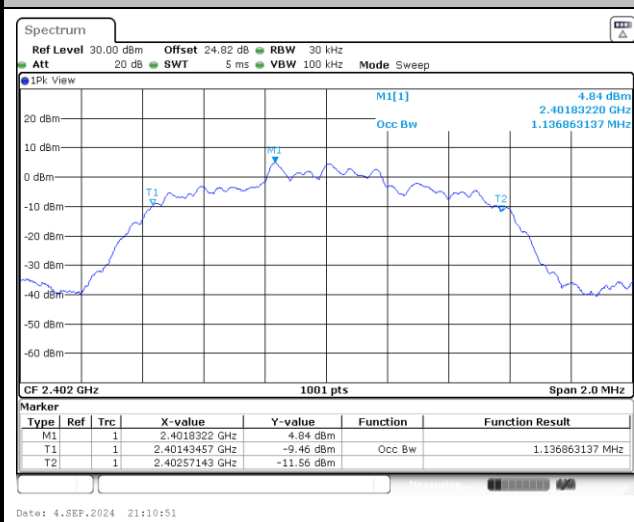
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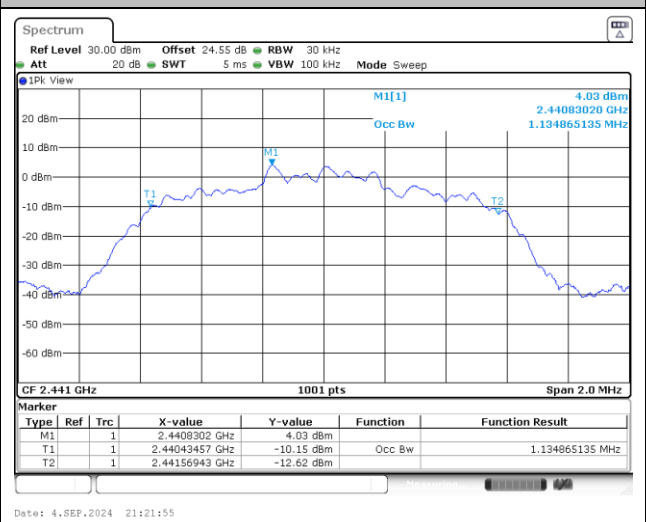


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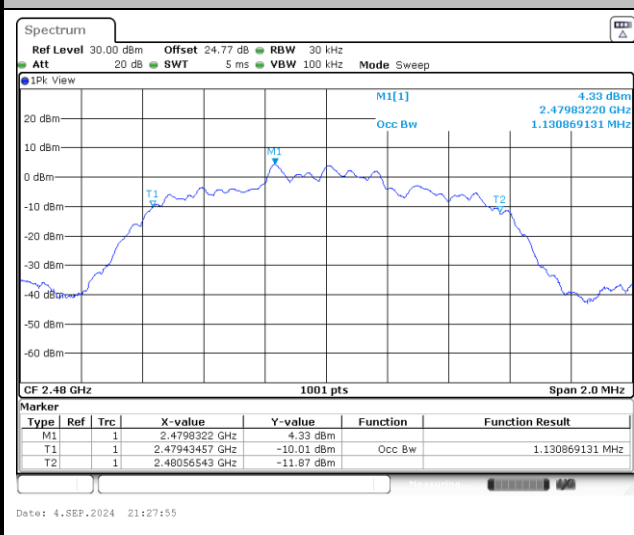
99% Occupied Bandwidth on Channel 00



99% Occupied Bandwidth on Channel 39



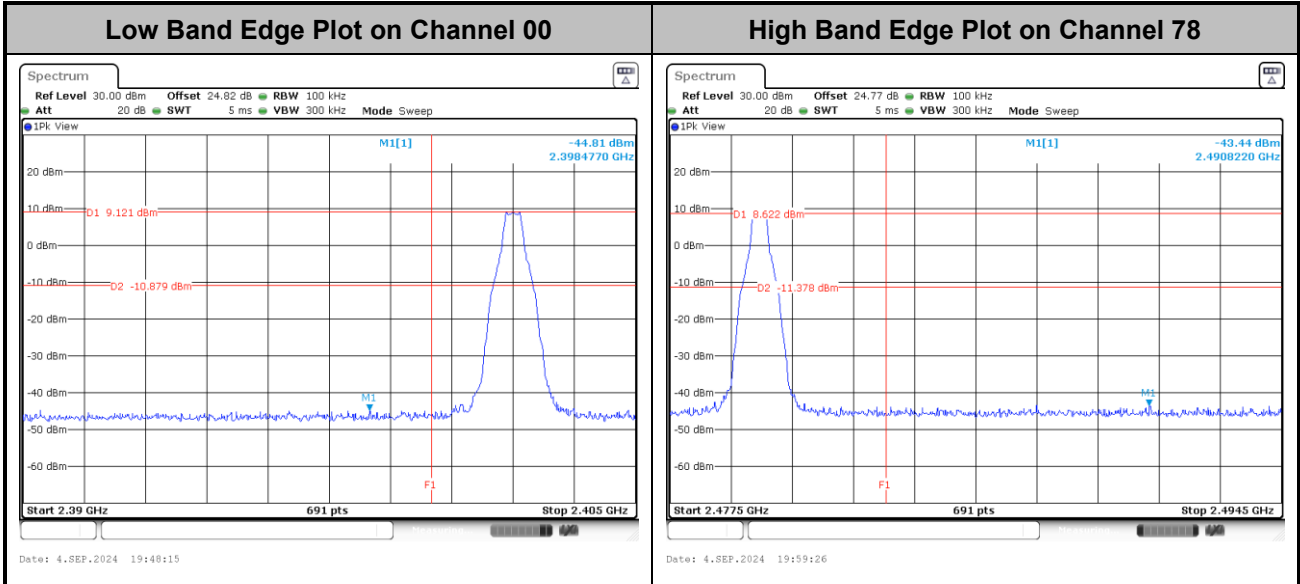
99% Occupied Bandwidth on Channel 78



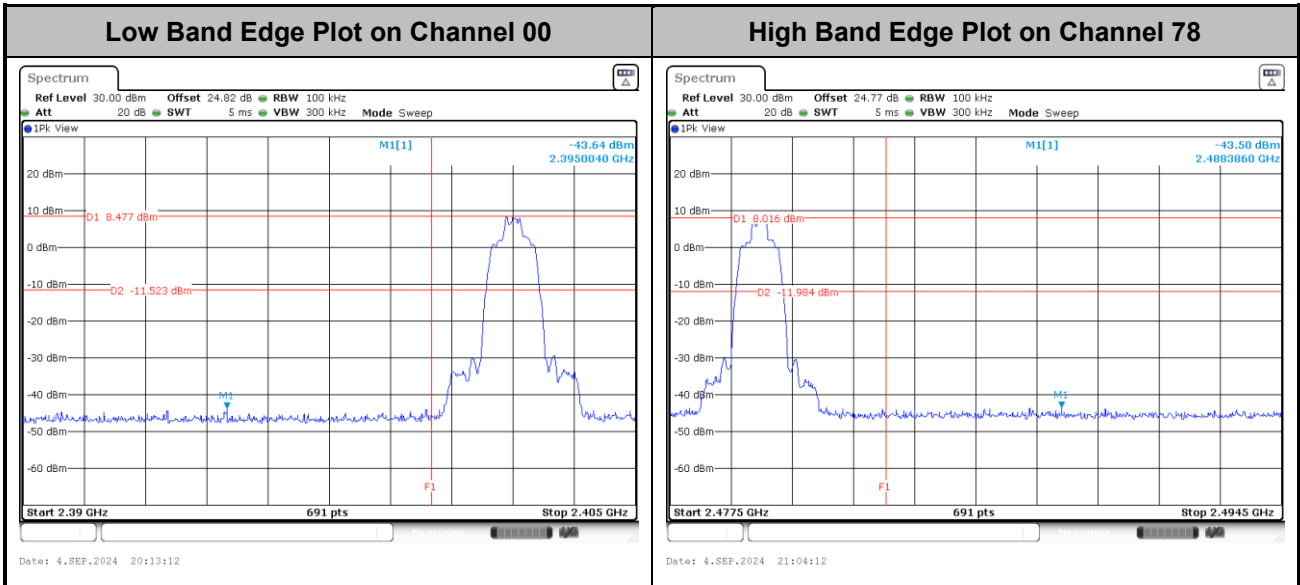


**Band Edges**

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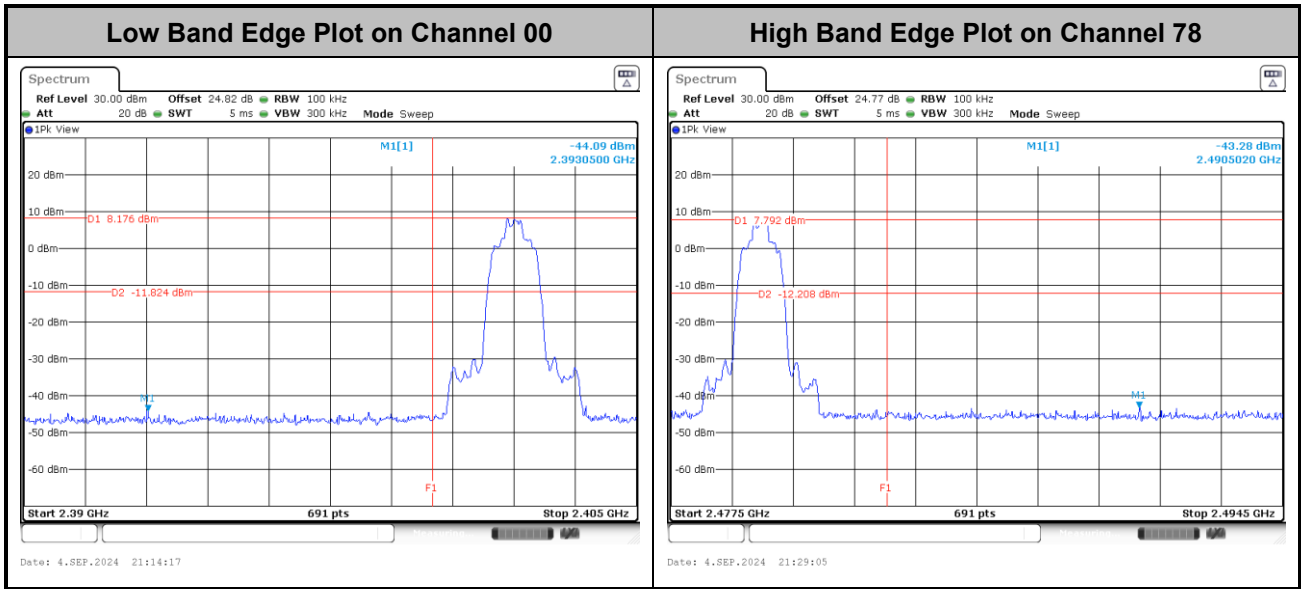


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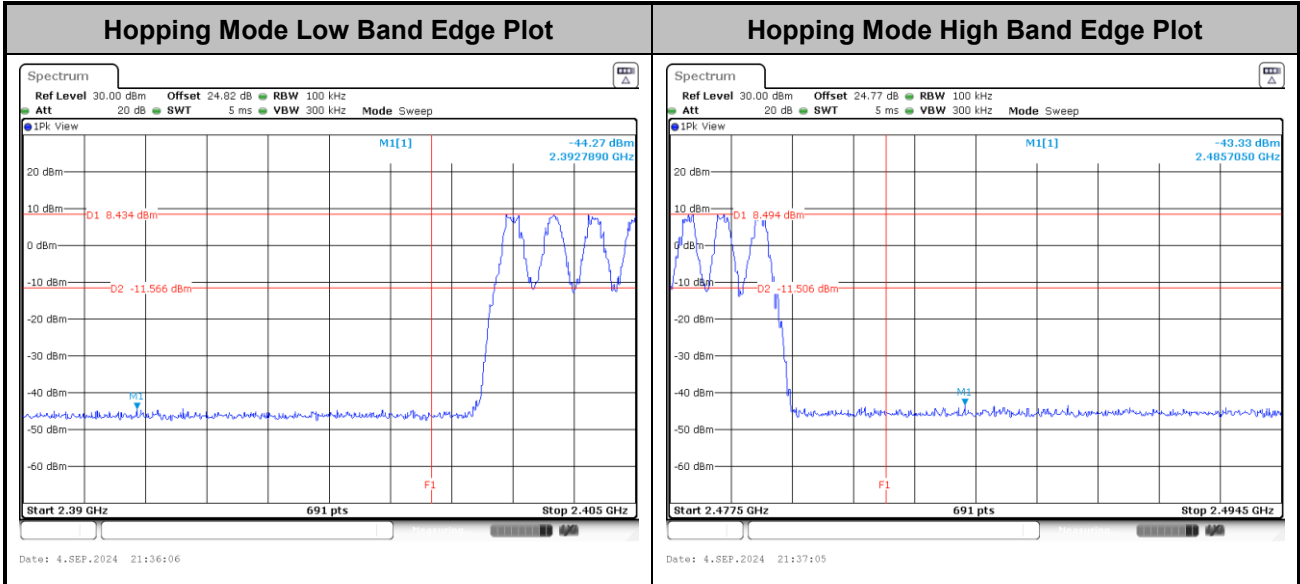
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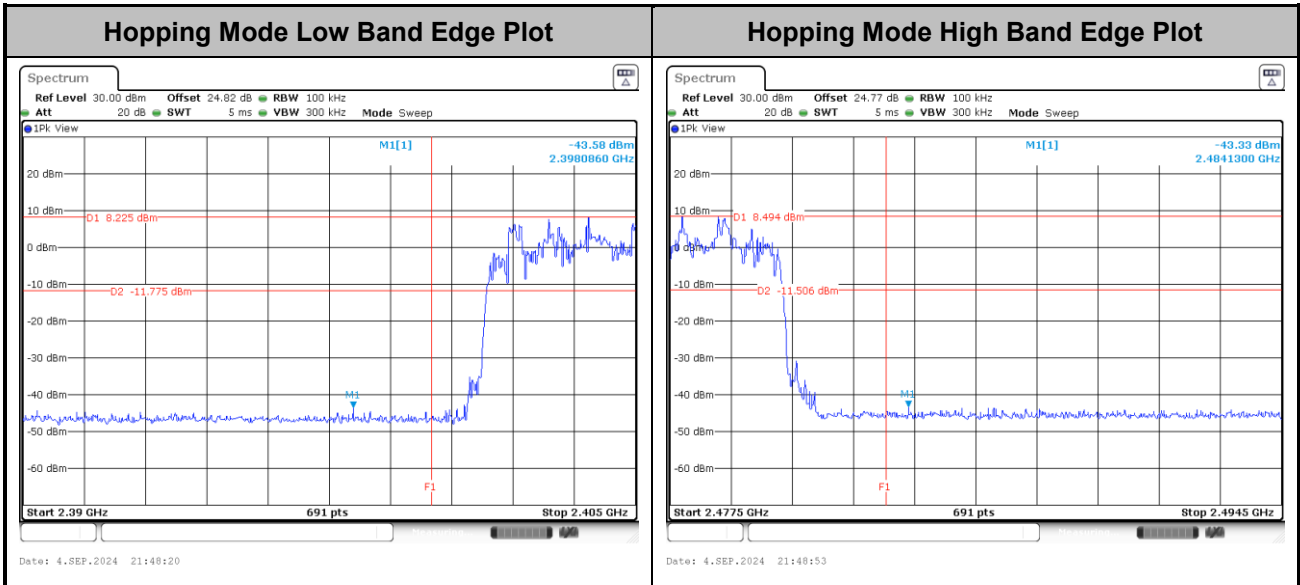


Hopping Mode Band Edges

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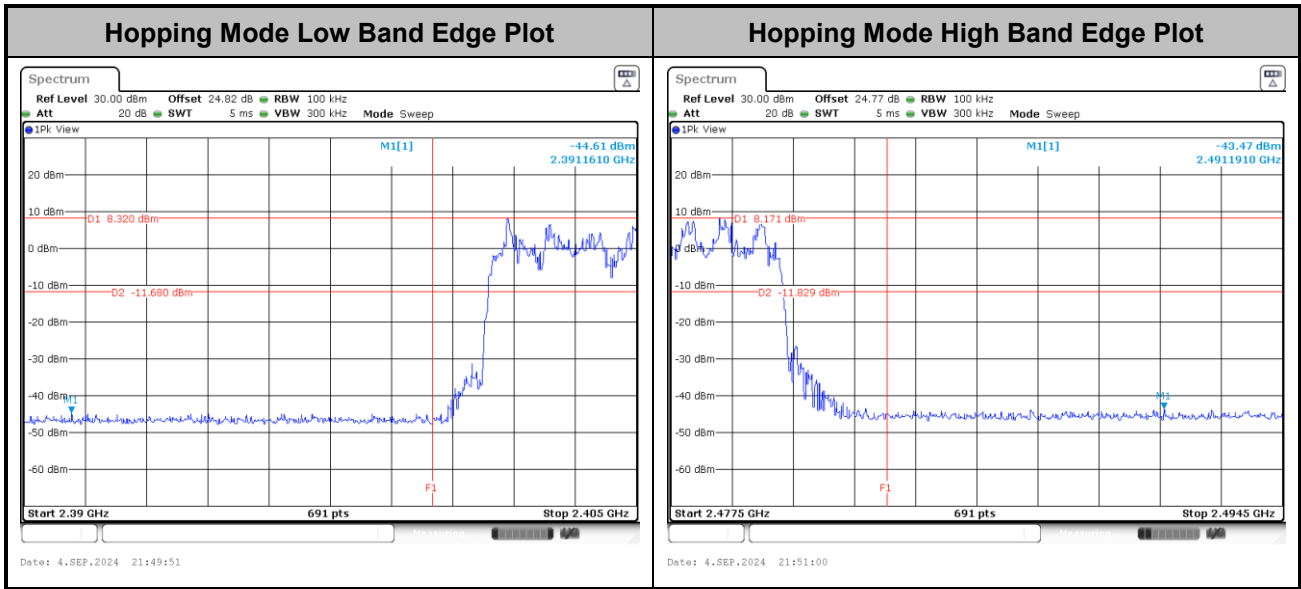
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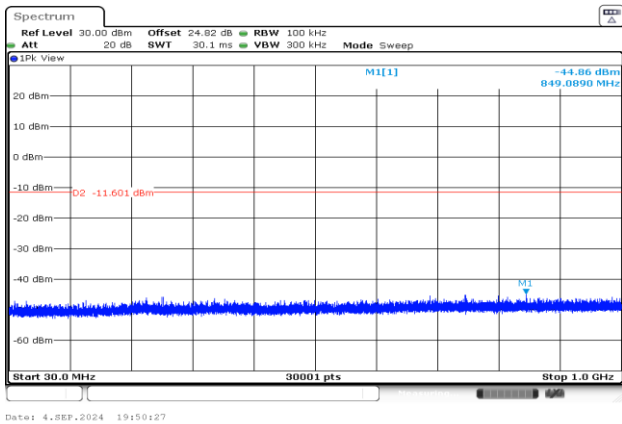




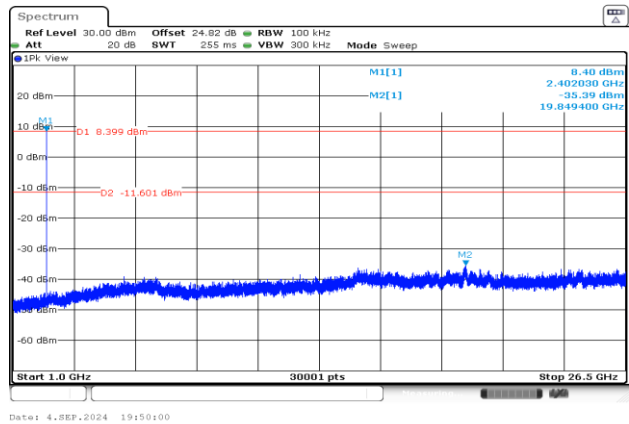
Conducted Spurious Emission

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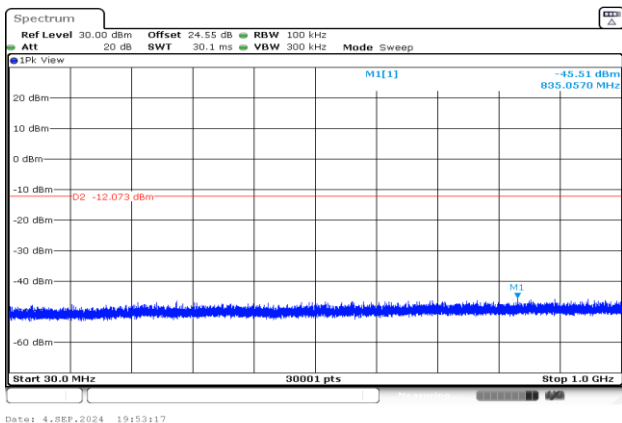
CSE Plot on Low Ch between 30MHz ~ 1 GHz



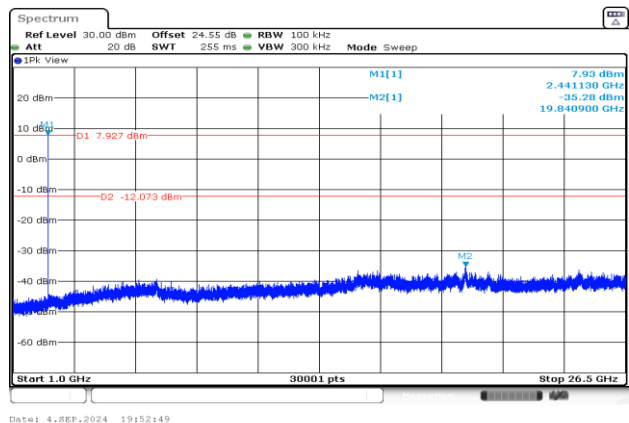
CSE Plot on Low Ch between 1GHz ~ 26.5GHz



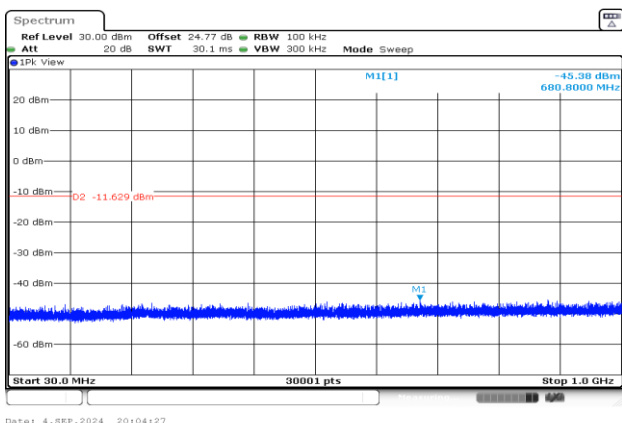
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz



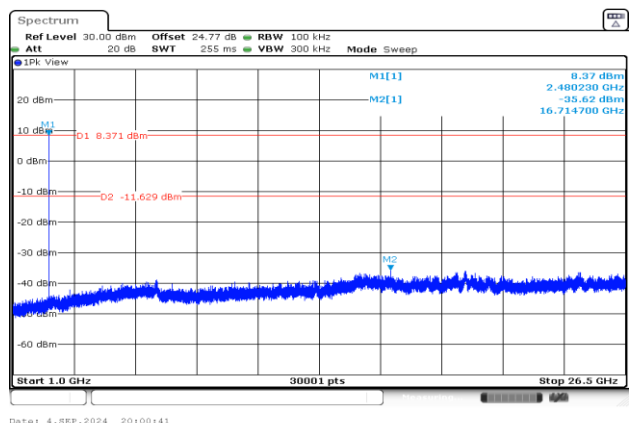
CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz



CSE Plot on High Ch between 30MHz ~ 1 GHz

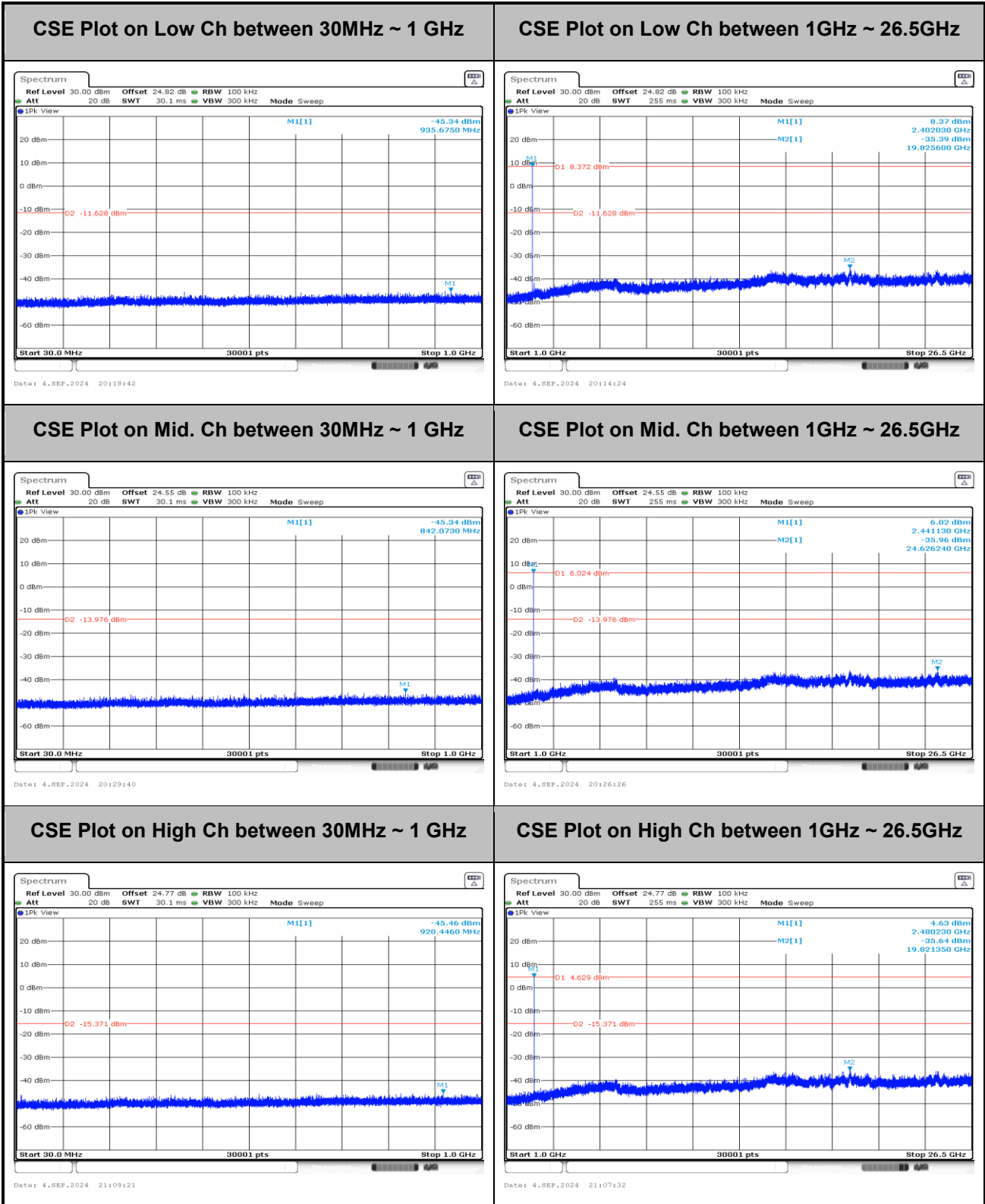


CSE Plot on High Ch between 1GHz ~ 26.5GHz



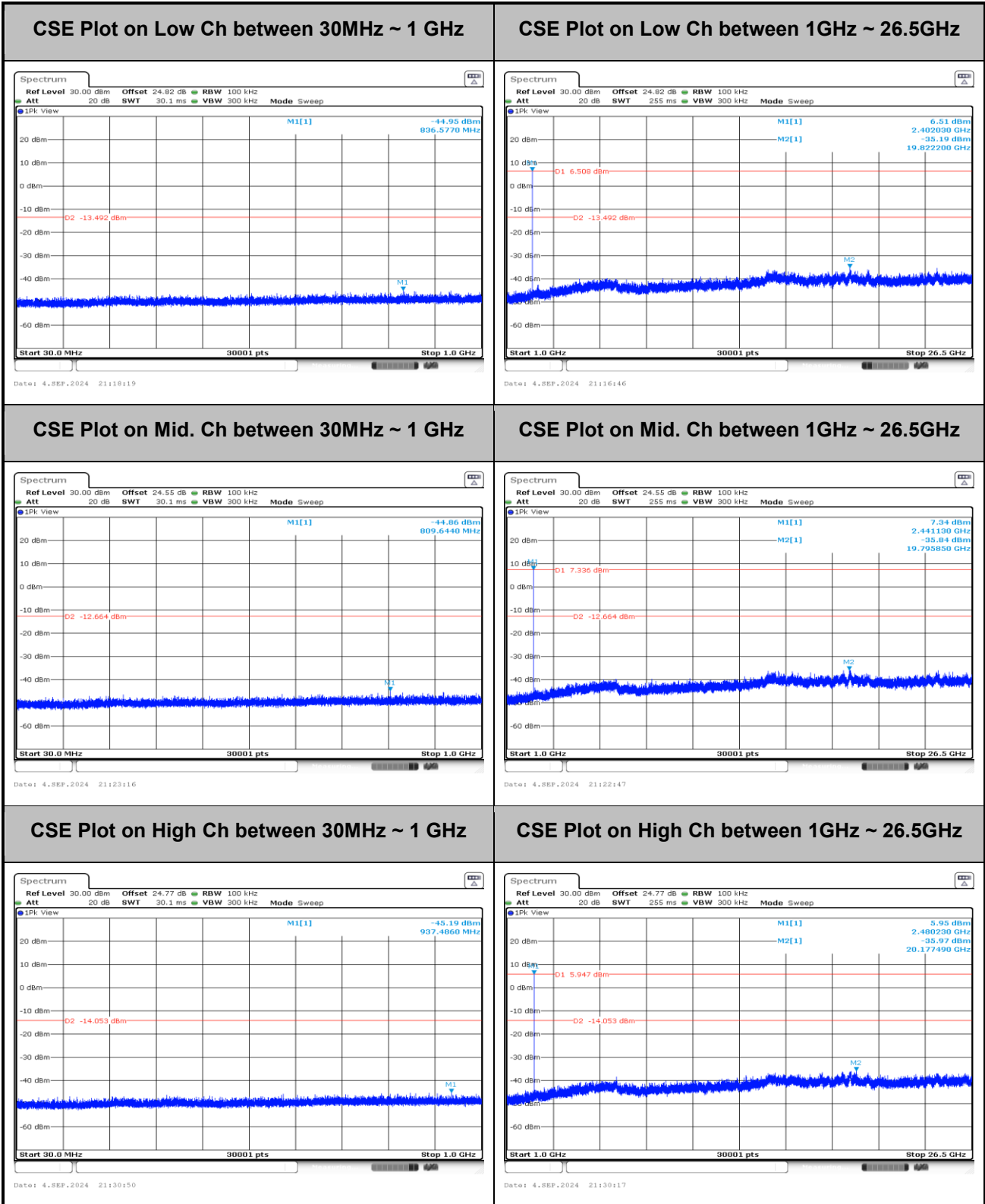


<2Mbps>





<3Mbps>





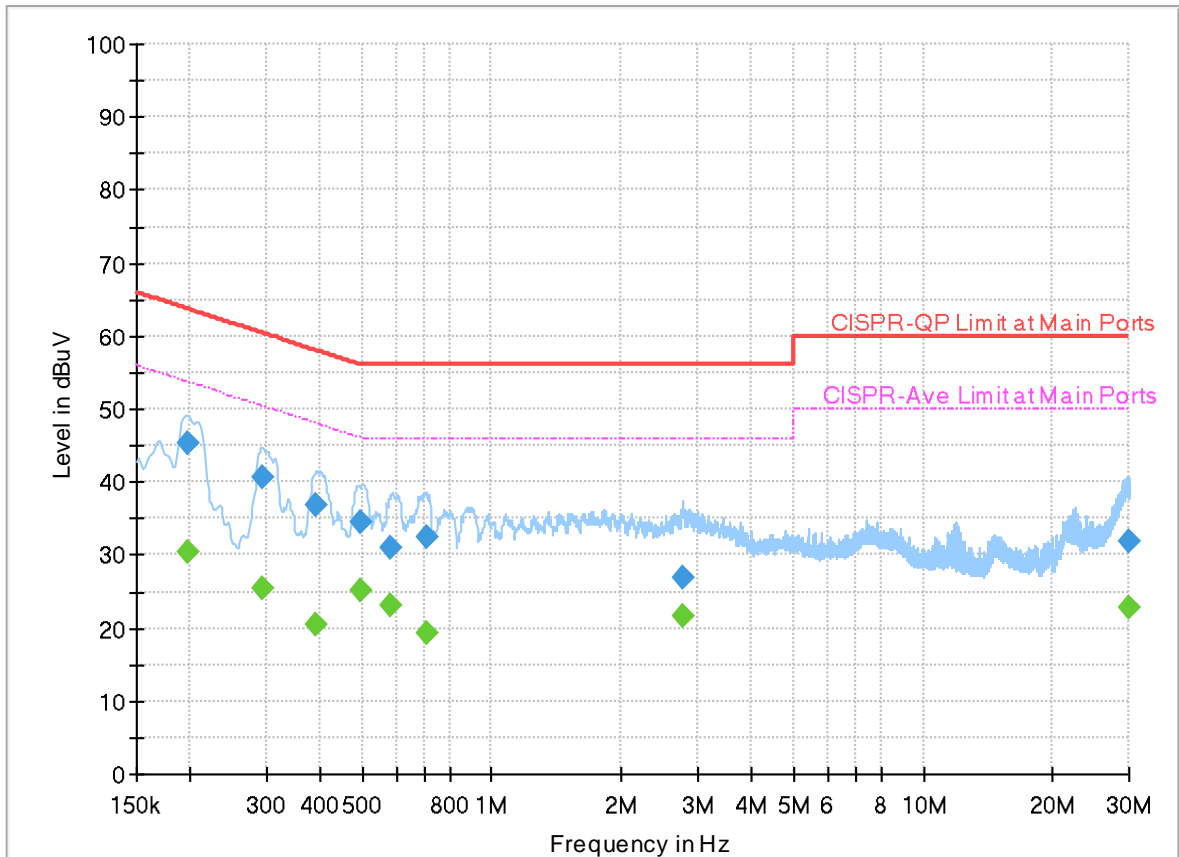
## Appendix B. AC Conducted Emission Test Results

|                 |             |                     |             |
|-----------------|-------------|---------------------|-------------|
| Test Engineer : | Louis Chung | Temperature :       | 23.5~25.5°C |
|                 |             | Relative Humidity : | 58.3~58.9%  |

### EUT Information

Report NO : 482028  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



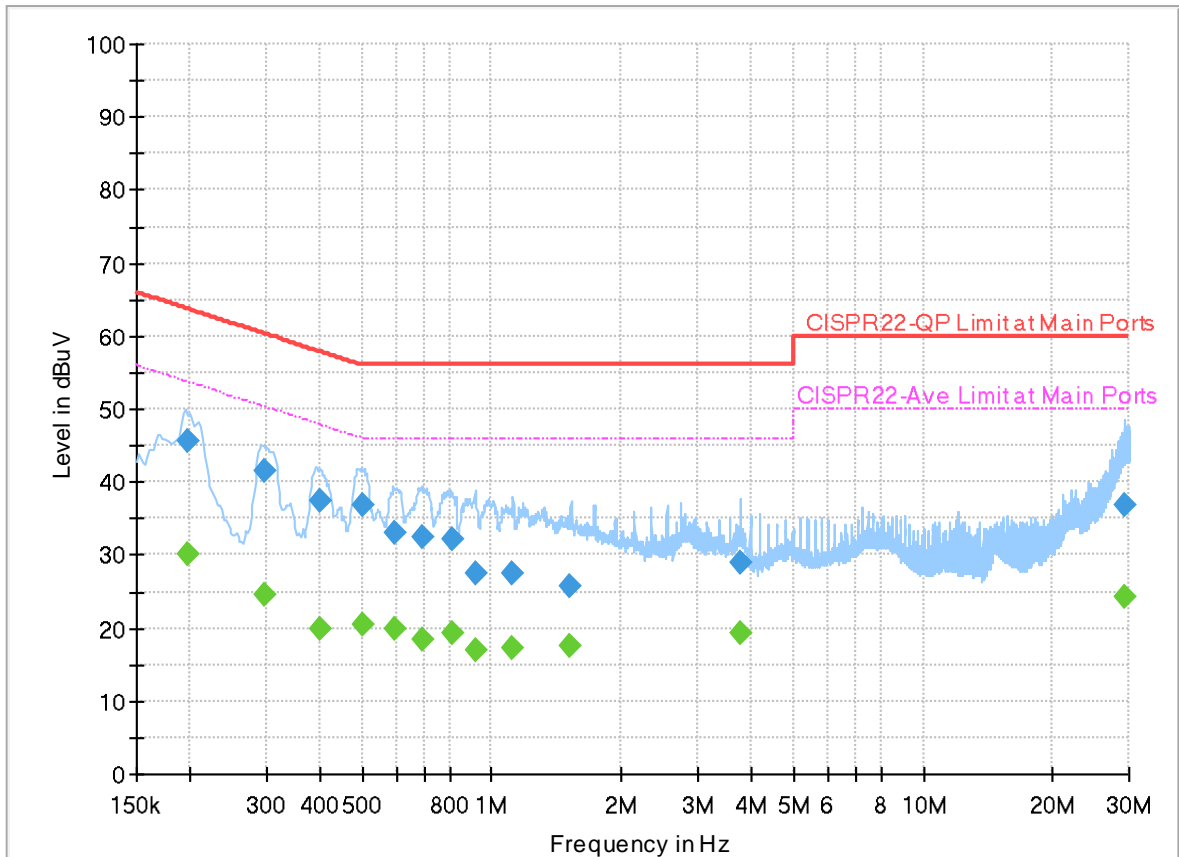
### Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | PE  | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|-----|------------|
| 0.196080        | ---              | 30.52           | 53.78        | 23.26       | L1   | FLO | 19.9       |
| 0.196080        | 45.36            | ---             | 63.78        | 18.42       | L1   | FLO | 19.9       |
| 0.294360        | ---              | 25.45           | 50.40        | 24.95       | L1   | FLO | 19.9       |
| 0.294360        | 40.56            | ---             | 60.40        | 19.84       | L1   | FLO | 19.9       |
| 0.391020        | ---              | 20.35           | 48.04        | 27.69       | L1   | FLO | 19.9       |
| 0.391020        | 36.80            | ---             | 58.04        | 21.24       | L1   | FLO | 19.9       |
| 0.496500        | ---              | 25.05           | 46.06        | 21.01       | L1   | FLO | 19.9       |
| 0.496500        | 34.58            | ---             | 56.06        | 21.48       | L1   | FLO | 19.9       |
| 0.584970        | ---              | 23.21           | 46.00        | 22.79       | L1   | FLO | 19.9       |
| 0.584970        | 31.09            | ---             | 56.00        | 24.91       | L1   | FLO | 19.9       |
| 0.704220        | ---              | 19.37           | 46.00        | 26.63       | L1   | FLO | 19.9       |
| 0.704220        | 32.32            | ---             | 56.00        | 23.68       | L1   | FLO | 19.9       |
| 2.757750        | ---              | 21.74           | 46.00        | 24.26       | L1   | FLO | 20.0       |
| 2.757750        | 26.98            | ---             | 56.00        | 29.02       | L1   | FLO | 20.0       |
| 29.921190       | ---              | 22.72           | 50.00        | 27.28       | L1   | FLO | 20.2       |
| 29.921190       | 31.86            | ---             | 60.00        | 28.14       | L1   | FLO | 20.2       |

### EUT Information

Report NO : 482028  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



### Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | PE  | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|-----|------------|
| 0.197160        | ---              | 29.99           | 53.73        | 23.74       | N    | FLO | 19.9       |
| 0.197160        | 45.68            | ---             | 63.73        | 18.05       | N    | FLO | 19.9       |
| 0.298590        | ---              | 24.43           | 50.28        | 25.85       | N    | FLO | 19.9       |
| 0.298590        | 41.40            | ---             | 60.28        | 18.88       | N    | FLO | 19.9       |
| 0.398850        | ---              | 19.92           | 47.88        | 27.96       | N    | FLO | 19.9       |
| 0.398850        | 37.29            | ---             | 57.88        | 20.59       | N    | FLO | 19.9       |
| 0.503250        | ---              | 20.44           | 46.00        | 25.56       | N    | FLO | 19.9       |
| 0.503250        | 36.74            | ---             | 56.00        | 19.26       | N    | FLO | 19.9       |
| 0.595500        | ---              | 19.95           | 46.00        | 26.05       | N    | FLO | 19.9       |
| 0.595500        | 32.91            | ---             | 56.00        | 23.09       | N    | FLO | 19.9       |
| 0.692250        | ---              | 18.30           | 46.00        | 27.70       | N    | FLO | 19.9       |
| 0.692250        | 32.47            | ---             | 56.00        | 23.53       | N    | FLO | 19.9       |
| 0.807000        | ---              | 19.32           | 46.00        | 26.68       | N    | FLO | 19.9       |
| 0.807000        | 32.12            | ---             | 56.00        | 23.88       | N    | FLO | 19.9       |
| 0.919500        | ---              | 17.01           | 46.00        | 28.99       | N    | FLO | 19.9       |
| 0.919500        | 27.35            | ---             | 56.00        | 28.65       | N    | FLO | 19.9       |
| 1.113000        | ---              | 17.27           | 46.00        | 28.73       | N    | FLO | 19.9       |
| 1.113000        | 27.59            | ---             | 56.00        | 28.41       | N    | FLO | 19.9       |
| 1.522410        | ---              | 17.53           | 46.00        | 28.47       | N    | FLO | 19.9       |

|           |       |       |       |       |   |     |      |
|-----------|-------|-------|-------|-------|---|-----|------|
| 1.522410  | 25.62 | ---   | 56.00 | 30.38 | N | FLO | 19.9 |
| 3.770880  | ---   | 19.27 | 46.00 | 26.73 | N | FLO | 20.0 |
| 3.770880  | 28.87 | ---   | 56.00 | 27.13 | N | FLO | 20.0 |
| 29.457960 | ---   | 24.17 | 50.00 | 25.83 | N | FLO | 20.2 |
| 29.457960 | 36.88 | ---   | 60.00 | 23.12 | N | FLO | 20.2 |





### Appendix C. Radiated Spurious Emission Test Data

|                        |                                    |                            |             |
|------------------------|------------------------------------|----------------------------|-------------|
| <b>Test Engineer :</b> | John Chuang, David Dai and Sam Cho | <b>Relative Humidity :</b> | 65.0~70.3 % |
|                        |                                    | <b>Temperature :</b>       | 19.6~23.4°C |

#### Note symbol

|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

### C1. Radiated Spurious Emission Test Modes

| Mode    | Band (MHz)  | Antenna | Modulation        | Channel | Frequency | Data Rate | RU | Remark |
|---------|-------------|---------|-------------------|---------|-----------|-----------|----|--------|
| Mode 1  | 2400-2483.5 | 1       | Bluetooth BR_GFSK | 00      | 2402      | 1Mbps     | -  | -      |
| Mode 2  | 2400-2483.5 | 1       | Bluetooth BR_GFSK | 39      | 2441      | 1Mbps     | -  | -      |
| Mode 3  | 2400-2483.5 | 1       | Bluetooth BR_GFSK | 78      | 2480      | 1Mbps     | -  | -      |
| Mode 4  | 2400-2483.5 | 1       | Bluetooth BR_GFSK | 39      | 2441      | 1Mbps     | -  | LF     |
| Mode 23 | 2400-2483.5 | 1       | Bluetooth BR_GFSK | 39      | 2441      | 1Mbps     | -  | SHF    |

**C2. 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    |
|------|-------------------|-----|----------------|-------------------|-------------------|----------------|------|--------------|--------|----|-----------|
| 1    | Bluetooth BR_GFSK | 00  | 2388.20        | 40.67             | 74.00             | -33.33         | H    | Peak         | Pass   | -  | Band Edge |
|      | Bluetooth BR_GFSK | 00  | 4804.00        | 51.56             | 74.00             | -22.44         | H    | Peak         | Pass   | -  | Harmonic  |
| 2    | Bluetooth BR_GFSK | 39  | 2491.68        | 41.64             | 74.00             | -32.36         | H    | Peak         | Pass   | -  | Band Edge |
|      | Bluetooth BR_GFSK | 39  | 4882.00        | 52.13             | 74.00             | -21.87         | H    | Peak         | Pass   | -  | Harmonic  |
| 3    | Bluetooth BR_GFSK | 78  | 2483.52        | 44.66             | 74.00             | -29.34         | H    | Peak         | Pass   | -  | Band Edge |
|      | Bluetooth BR_GFSK | 78  | 4960.00        | 50.26             | 74.00             | -23.74         | H    | Peak         | Pass   | -  | Harmonic  |
| 4    | LF                | 39  | 45.52          | 33.69             | 40.00             | -6.31          | V    | Peak         | Pass   | -  | LF        |
| 23   | SHF               | 39  | 24867.00       | 42.40             | 74.00             | -31.60         | H    | Peak         | Pass   | -  | SHF       |

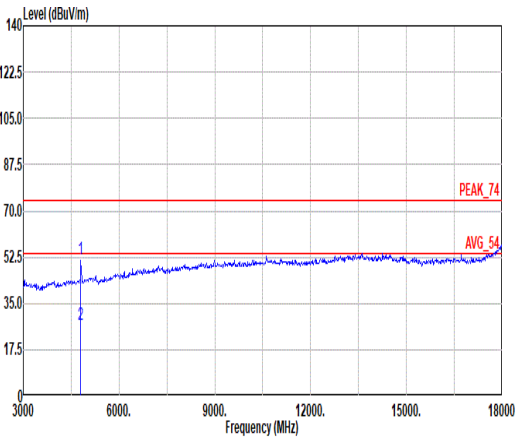
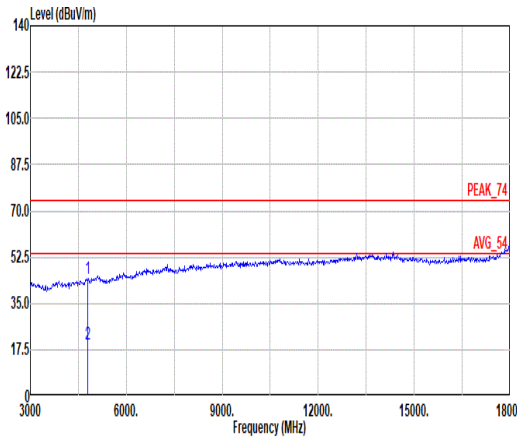


| Mode | 1  |             |       |        |        |        |        |       |        |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
|------|--|-------------|-------|--------|--------|--------|--------|-------|--------|--------|--------|---------|-------|-------------|-------|--------|------|--------|--------|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|-----|----|---------|---|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|-------|--------|------|--------|--------|----|-----|---|---------|--------|-------|-------|--------|-------|------|-------|------|-----|----|------|---|---------|-------|-------|-------|----|----|----|----|----|-----|----|---------|
|      | Band Edge  |             |       |        |        |        |        |       |        |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz   |             |       |        |        |        |        |       |        |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| ANT  | 1  |             |       |        |        |        |        |       |        |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Pol. | Horizontal   | Fundamental |       |        |        |        |        |       |        |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Peak | <p>Site : 03CH20-HY<br/>Condition: PEAK_BE_74 3m HF_91200_02360_231030 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2388.20</td> <td>40.67</td> <td>74.00</td> <td>-33.33</td> <td>40.90</td> <td>27.32</td> <td>8.69</td> <td>36.24</td> <td>0.00</td> <td>200</td> <td>27</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2388.20</td> <td>15.88</td> <td>54.00</td> <td>-38.12</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>200</td> <td>27</td> <td>AVERAGE</td> </tr> </tbody> </table> |             | Limit | Read   | Ant    | Cable  | Preamp | Aux   | APos   | TPos   | Remark | Freq    | Level | Line Margin | Level | Factor | Loss | Factor | Factor | cm | deg | 1 | 2388.20 | 40.67 | 74.00 | -33.33 | 40.90 | 27.32 | 8.69 | 36.24 | 0.00 | 200 | 27 | PEAK | 2 | 2388.20 | 15.88 | 54.00 | -38.12 | -- | -- | -- | -- | -- | 200 | 27 | AVERAGE | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>104.80</td> <td>-----</td> <td>-----</td> <td>104.92</td> <td>27.42</td> <td>8.71</td> <td>36.25</td> <td>0.00</td> <td>200</td> <td>27</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2402.00</td> <td>80.01</td> <td>-----</td> <td>-----</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>200</td> <td>27</td> <td>AVERAGE</td> </tr> </tbody> </table> |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level | Factor | Loss | Factor | Factor | cm | deg | 1 | 2402.00 | 104.80 | ----- | ----- | 104.92 | 27.42 | 8.71 | 36.25 | 0.00 | 200 | 27 | PEAK | 2 | 2402.00 | 80.01 | ----- | ----- | -- | -- | -- | -- | -- | 200 | 27 | AVERAGE |
|      |  | Limit       | Read  | Ant    | Cable  | Preamp | Aux    | APos  | TPos   | Remark |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Freq | Level  | Line Margin | Level | Factor | Loss   | Factor | Factor | cm    | deg    |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 1    | 2388.20  | 40.67       | 74.00 | -33.33 | 40.90  | 27.32  | 8.69   | 36.24 | 0.00   | 200    | 27     | PEAK    |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 2    | 2388.20  | 15.88       | 54.00 | -38.12 | --     | --     | --     | --    | --     | 200    | 27     | AVERAGE |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
|      | Limit  | Read        | Ant   | Cable  | Preamp | Aux    | APos   | TPos  | Remark |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Freq | Level  | Line Margin | Level | Factor | Loss   | Factor | Factor | cm    | deg    |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 1    | 2402.00  | 104.80      | ----- | -----  | 104.92 | 27.42  | 8.71   | 36.25 | 0.00   | 200    | 27     | PEAK    |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 2    | 2402.00  | 80.01       | ----- | -----  | --     | --     | --     | --    | --     | 200    | 27     | AVERAGE |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
|      |  |             |       |        |        |        |        |       |        |        |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |



| Mode | 1  |             |       |        |        |        |        |       |        |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
|------|--|-------------|-------|--------|--------|--------|--------|-------|--------|------|--------|---------|-------|-------------|-------|--------|------|--------|--------|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|-----|-----|---------|---|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|-------|--------|------|--------|--------|----|-----|---|---------|--------|-------|-------|--------|-------|------|-------|------|-----|-----|------|---|---------|-------|-------|-------|----|----|----|----|----|-----|-----|---------|
|      | Band Edge  |             |       |        |        |        |        |       |        |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz   |             |       |        |        |        |        |       |        |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| ANT  | 1  |             |       |        |        |        |        |       |        |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| Pol. | Vertical   | Fundamental |       |        |        |        |        |       |        |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| Peak | <p>Site : 03CH20-HY<br/>Condition: PEAK_BE_74 3m HF_91200_02360_231030 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2358.94</td> <td>40.45</td> <td>74.00</td> <td>-33.55</td> <td>40.86</td> <td>27.19</td> <td>8.63</td> <td>36.23</td> <td>0.00</td> <td>365</td> <td>260</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2358.94</td> <td>15.66</td> <td>54.00</td> <td>-38.34</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>365</td> <td>260</td> <td>AVERAGE</td> </tr> </tbody> </table> |             | Limit | Read   | Ant    | Cable  | Preamp | Aux   | APos   | TPos | Remark | Freq    | Level | Line Margin | Level | Factor | Loss | Factor | Factor | cm | deg | 1 | 2358.94 | 40.45 | 74.00 | -33.55 | 40.86 | 27.19 | 8.63 | 36.23 | 0.00 | 365 | 260 | PEAK | 2 | 2358.94 | 15.66 | 54.00 | -38.34 | -- | -- | -- | -- | -- | 365 | 260 | AVERAGE | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>102.35</td> <td>-----</td> <td>-----</td> <td>102.47</td> <td>27.42</td> <td>8.71</td> <td>36.25</td> <td>0.00</td> <td>365</td> <td>260</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2402.00</td> <td>77.56</td> <td>-----</td> <td>-----</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>365</td> <td>260</td> <td>AVERAGE</td> </tr> </tbody> </table> |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level | Factor | Loss | Factor | Factor | cm | deg | 1 | 2402.00 | 102.35 | ----- | ----- | 102.47 | 27.42 | 8.71 | 36.25 | 0.00 | 365 | 260 | PEAK | 2 | 2402.00 | 77.56 | ----- | ----- | -- | -- | -- | -- | -- | 365 | 260 | AVERAGE |
|      | Limit  | Read        | Ant   | Cable  | Preamp | Aux    | APos   | TPos  | Remark |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| Freq | Level  | Line Margin | Level | Factor | Loss   | Factor | Factor | cm    | deg    |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 1    | 2358.94  | 40.45       | 74.00 | -33.55 | 40.86  | 27.19  | 8.63   | 36.23 | 0.00   | 365  | 260    | PEAK    |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 2    | 2358.94  | 15.66       | 54.00 | -38.34 | --     | --     | --     | --    | --     | 365  | 260    | AVERAGE |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
|      | Limit  | Read        | Ant   | Cable  | Preamp | Aux    | APos   | TPos  | Remark |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| Freq | Level  | Line Margin | Level | Factor | Loss   | Factor | Factor | cm    | deg    |      |        |         |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 1    | 2402.00  | 102.35      | ----- | -----  | 102.47 | 27.42  | 8.71   | 36.25 | 0.00   | 365  | 260    | PEAK    |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 2    | 2402.00  | 77.56       | ----- | -----  | --     | --     | --     | --    | --     | 365  | 260    | AVERAGE |       |             |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |



| Mode        | 1   |          |        |             |             |             |       |        |        |        |      |         |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|-------------|---|----------|--------|-------------|-------------|-------------|-------|--------|--------|--------|------|---------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|--|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|------|------|-------|-------|-------------|------|-----|-------|--------|-----|------|------|--------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|--|---|---------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|
|             | Harmonic  |          |        |             |             |             |       |        |        |        |      |         |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|             | 2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz  |          |        |             |             |             |       |        |        |        |      |         |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| ANT         | 1   |          |        |             |             |             |       |        |        |        |      |         |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| Pol.        | Horizontal  | Vertical |        |             |             |             |       |        |        |        |      |         |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| Peak<br>Avg |  <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 HORIZONTAL</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line Margin</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></th> <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> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4804.00</td> <td>51.56</td> <td>74.00</td> <td>-22.44</td> <td>43.77</td> <td>32.03</td> <td>12.43</td> <td>37.50</td> <td>0.83</td> <td>111</td> <td>14</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>4804.00</td> <td>26.77</td> <td>54.00</td> <td>-27.23</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </table> | Peak     | Freq   | Level       | Limit       | Line Margin | Read  | Ant    | Cable  | Preamp | Aux  | APos    | TPos   | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  | 1 | 4804.00 | 51.56 | 74.00 | -22.44 | 43.77 | 32.03 | 12.43 | 37.50 | 0.83 | 111 | 14 | PEAK | 2 | 4804.00 | 26.77 | 54.00 | -27.23 | -- | -- | -- | -- | -- | -- | -- | Average |  <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 VERTICAL</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line Margin</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></th> <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> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4804.00</td> <td>44.36</td> <td>74.00</td> <td>-29.64</td> <td>36.57</td> <td>32.03</td> <td>12.43</td> <td>37.50</td> <td>0.83</td> <td>--</td> <td>--</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>4804.00</td> <td>19.56</td> <td>54.00</td> <td>-34.44</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </table> | Peak | Freq | Level | Limit | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  | 1 | 4804.00 | 44.36 | 74.00 | -29.64 | 36.57 | 32.03 | 12.43 | 37.50 | 0.83 | -- | -- | PEAK | 2 | 4804.00 | 19.56 | 54.00 | -34.44 | -- | -- | -- | -- | -- | -- | -- | Average |
|             | Peak  | Freq     | Level  | Limit       | Line Margin | Read        | Ant   | Cable  | Preamp | Aux    | APos | TPos    | Remark |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|             | MHz   | dBuV/m   | dBuV/m | dB          | dBuV        | dB/m        | dB    | dB     | dB     | cm     | deg  |         |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 1           | 4804.00   | 51.56    | 74.00  | -22.44      | 43.77       | 32.03       | 12.43 | 37.50  | 0.83   | 111    | 14   | PEAK    |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 2           | 4804.00   | 26.77    | 54.00  | -27.23      | --          | --          | --    | --     | --     | --     | --   | Average |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| Peak        | Freq  | Level    | Limit  | Line Margin | Read        | Ant         | Cable | Preamp | Aux    | APos   | TPos | Remark  |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|             | MHz   | dBuV/m   | dBuV/m | dB          | dBuV        | dB/m        | dB    | dB     | dB     | cm     | deg  |         |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 1           | 4804.00   | 44.36    | 74.00  | -29.64      | 36.57       | 32.03       | 12.43 | 37.50  | 0.83   | --     | --   | PEAK    |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 2           | 4804.00   | 19.56    | 54.00  | -34.44      | --          | --          | --    | --     | --     | --     | --   | Average |        |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |      |      |       |       |             |      |     |       |        |     |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |



|                                  |   |   |
|----------------------------------|---|---|
|                                  | <b>1</b>  |   |
| <b>Mode</b>                      | <b>Harmonic</b>   |   |
|                                  | <b>2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz</b>                                 |   |
| <b>ANT</b>                       | <b>1</b>  |   |
| <b>Pol.</b>                      | <b>Horizontal</b>   | <b>Vertical</b>   |
| <b>14.47G<br/>~14.5G<br/>Avg</b> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 HORIZONTAL</p> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 VERTICAL</p> |
| <b>17.7G<br/>~18G<br/>Avg</b>    | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 HORIZONTAL</p> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 VERTICAL</p> |



| Mode | 2   |             |       |        |        |        |        |       |        |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
|------|---|-------------|-------|--------|--------|--------|--------|-------|--------|------|--------|---------|-------|------|-------|--------|------|--------|--------|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|-----|----|---------|--|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|------|-------|--------|------|--------|--------|----|-----|---|---------|--------|-------|-------|--------|-------|------|-------|------|-----|----|------|---|---------|-------|-------|-------|----|----|----|----|----|-----|----|---------|
|      | Band Edge - L   |             |       |        |        |        |        |       |        |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz  |             |       |        |        |        |        |       |        |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| ANT  | 1   |             |       |        |        |        |        |       |        |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Pol. | Horizontal  | Fundamental |       |        |        |        |        |       |        |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Peak | <p>Site : 03CH20-HY<br/>Condition: PEAK_BE_74 3m HF_91200_02360_231030 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2366.99</td> <td>40.31</td> <td>74.00</td> <td>-33.69</td> <td>49.62</td> <td>27.27</td> <td>8.65</td> <td>36.23</td> <td>0.00</td> <td>100</td> <td>23</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2366.99</td> <td>15.52</td> <td>54.00</td> <td>-38.48</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>100</td> <td>23</td> <td>AVERAGE</td> </tr> </tbody> </table> |             | Limit | Read   | Ant    | Cable  | Preamp | Aux   | APos   | TPos | Remark | Freq    | Level | Line | Level | Factor | Loss | Factor | Factor | cm | deg | 1 | 2366.99 | 40.31 | 74.00 | -33.69 | 49.62 | 27.27 | 8.65 | 36.23 | 0.00 | 100 | 23 | PEAK | 2 | 2366.99 | 15.52 | 54.00 | -38.48 | -- | -- | -- | -- | -- | 100 | 23 | AVERAGE | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2441.00</td> <td>104.00</td> <td>-----</td> <td>-----</td> <td>103.98</td> <td>27.50</td> <td>8.78</td> <td>36.26</td> <td>0.00</td> <td>100</td> <td>23</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2441.00</td> <td>79.21</td> <td>-----</td> <td>-----</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>100</td> <td>23</td> <td>AVERAGE</td> </tr> </tbody> </table> |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Level | Factor | Loss | Factor | Factor | cm | deg | 1 | 2441.00 | 104.00 | ----- | ----- | 103.98 | 27.50 | 8.78 | 36.26 | 0.00 | 100 | 23 | PEAK | 2 | 2441.00 | 79.21 | ----- | ----- | -- | -- | -- | -- | -- | 100 | 23 | AVERAGE |
|      | Limit   | Read        | Ant   | Cable  | Preamp | Aux    | APos   | TPos  | Remark |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Freq | Level   | Line        | Level | Factor | Loss   | Factor | Factor | cm    | deg    |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 1    | 2366.99   | 40.31       | 74.00 | -33.69 | 49.62  | 27.27  | 8.65   | 36.23 | 0.00   | 100  | 23     | PEAK    |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 2    | 2366.99   | 15.52       | 54.00 | -38.48 | --     | --     | --     | --    | --     | 100  | 23     | AVERAGE |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
|      | Limit   | Read        | Ant   | Cable  | Preamp | Aux    | APos   | TPos  | Remark |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| Freq | Level   | Line        | Level | Factor | Loss   | Factor | Factor | cm    | deg    |      |        |         |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 1    | 2441.00   | 104.00      | ----- | -----  | 103.98 | 27.50  | 8.78   | 36.26 | 0.00   | 100  | 23     | PEAK    |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |
| 2    | 2441.00   | 79.21       | ----- | -----  | --     | --     | --     | --    | --     | 100  | 23     | AVERAGE |       |      |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |  |  |       |      |     |       |        |     |      |      |        |      |       |      |       |        |      |        |        |    |     |   |         |        |       |       |        |       |      |       |      |     |    |      |   |         |       |       |       |    |    |    |    |    |     |    |         |



| Mode  | 2   |             |        |        |        |        |        |        |      |        |      |         |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
|-------|---|-------------|--------|--------|--------|--------|--------|--------|------|--------|------|---------|------|--------|-------|--------|------|--------|--------|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|-----|----|---------|-------|
|       | Band Edge - R   |             |        |        |        |        |        |        |      |        |      |         |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
|       | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz  |             |        |        |        |        |        |        |      |        |      |         |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
| ANT   | 1   |             |        |        |        |        |        |        |      |        |      |         |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
| Pol.  | Horizontal  | Fundamental |        |        |        |        |        |        |      |        |      |         |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
| Peak  | <p>Site : 03CH20-HY<br/>           Condition: PEAK_BE_74 3m HF_91200_02360_231030 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2491.68</td> <td>41.64</td> <td>74.00</td> <td>-32.36</td> <td>41.34</td> <td>27.70</td> <td>8.88</td> <td>36.28</td> <td>0.00</td> <td>100</td> <td>23</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2491.68</td> <td>16.85</td> <td>54.00</td> <td>-37.15</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>100</td> <td>23</td> <td>AVERAGE</td> </tr> </tbody> </table> | Limit       | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos | Remark | Freq | Level   | Line | Margin | Level | Factor | Loss | Factor | Factor | cm | deg | 1 | 2491.68 | 41.64 | 74.00 | -32.36 | 41.34 | 27.70 | 8.88 | 36.28 | 0.00 | 100 | 23 | PEAK | 2 | 2491.68 | 16.85 | 54.00 | -37.15 | -- | -- | -- | -- | -- | 100 | 23 | AVERAGE | Blank |
| Limit | Read  | Ant         | Cable  | Preamp | Aux    | APos   | TPos   | Remark |      |        |      |         |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
| Freq  | Level   | Line        | Margin | Level  | Factor | Loss   | Factor | Factor | cm   | deg    |      |         |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
| 1     | 2491.68   | 41.64       | 74.00  | -32.36 | 41.34  | 27.70  | 8.88   | 36.28  | 0.00 | 100    | 23   | PEAK    |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |
| 2     | 2491.68   | 16.85       | 54.00  | -37.15 | --     | --     | --     | --     | --   | 100    | 23   | AVERAGE |      |        |       |        |      |        |        |    |     |   |         |       |       |        |       |       |      |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |     |    |         |       |





| Mode | 2   |             |       |        |             |        |        |       |        |      |        |         |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
|------|---|-------------|-------|--------|-------------|--------|--------|-------|--------|------|--------|---------|-------|-------------|-------|--------|-------------|--------|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|-----|-----|---------|--|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|-------|--------|-------------|--------|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|-------|--------|-------|------|-------|------|-----|-----|------|---|---------|-------|-------|-------|----|----|----|----|----|-----|-----|---------|
|      | Band Edge - L   |             |       |        |             |        |        |       |        |      |        |         |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz  |             |       |        |             |        |        |       |        |      |        |         |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| ANT  | 1   |             |       |        |             |        |        |       |        |      |        |         |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| Pol. | Vertical  | Fundamental |       |        |             |        |        |       |        |      |        |         |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| Peak | <p>Site : 03CH20-HY<br/>Condition: PEAK_BE_74 3m HF_91200_02360_231030 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2358.86</td> <td>39.97</td> <td>74.00</td> <td>-34.03</td> <td>49.38</td> <td>27.19</td> <td>8.63</td> <td>36.23</td> <td>0.00</td> <td>397</td> <td>106</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2358.86</td> <td>15.18</td> <td>54.00</td> <td>-38.82</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>397</td> <td>106</td> <td>AVERAGE</td> </tr> </tbody> </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 | cm | deg | 1 | 2358.86 | 39.97 | 74.00 | -34.03 | 49.38 | 27.19 | 8.63 | 36.23 | 0.00 | 397 | 106 | PEAK | 2 | 2358.86 | 15.18 | 54.00 | -38.82 | -- | -- | -- | -- | -- | 397 | 106 | AVERAGE | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2441.00</td> <td>100.67</td> <td>-----</td> <td>-----</td> <td>100.65</td> <td>27.50</td> <td>8.78</td> <td>36.26</td> <td>0.00</td> <td>397</td> <td>106</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2441.00</td> <td>75.88</td> <td>-----</td> <td>-----</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>397</td> <td>106</td> <td>AVERAGE</td> </tr> </tbody> </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 | cm | deg | 1 | 2441.00 | 100.67 | ----- | ----- | 100.65 | 27.50 | 8.78 | 36.26 | 0.00 | 397 | 106 | PEAK | 2 | 2441.00 | 75.88 | ----- | ----- | -- | -- | -- | -- | -- | 397 | 106 | AVERAGE |
|      | 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     | cm    | deg    |      |        |         |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 1    | 2358.86   | 39.97       | 74.00 | -34.03 | 49.38       | 27.19  | 8.63   | 36.23 | 0.00   | 397  | 106    | PEAK    |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 2    | 2358.86   | 15.18       | 54.00 | -38.82 | --          | --     | --     | --    | --     | 397  | 106    | AVERAGE |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
|      | 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     | cm    | deg    |      |        |         |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 1    | 2441.00   | 100.67      | ----- | -----  | 100.65      | 27.50  | 8.78   | 36.26 | 0.00   | 397  | 106    | PEAK    |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |
| 2    | 2441.00   | 75.88       | ----- | -----  | --          | --     | --     | --    | --     | 397  | 106    | AVERAGE |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |     |      |   |         |       |       |       |    |    |    |    |    |     |     |         |



| Mode  | 2  |             |        |        |        |        |        |        |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
|-------|--|-------------|--------|--------|--------|--------|--------|--------|------|-----|------|---------|------|--------|-------|--------|------|--------|--------|-----|--------|--------|----|------|------|----|----|----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|-----|-----|---------|-------|
|       | Band Edge - R  |             |        |        |        |        |        |        |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
|       | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz   |             |        |        |        |        |        |        |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
| ANT   | 1  |             |        |        |        |        |        |        |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
| Pol.  | Vertical   | Fundamental |        |        |        |        |        |        |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
| Peak  | <p>Site : 03CH20-HY<br/>           Condition: PEAK_BE_74 3m HF_91200_02360_231030 VERTICAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <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> </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> </tr> </thead> <tbody> <tr> <td>1</td> <td>2497.76</td> <td>40.79</td> <td>74.00</td> <td>-33.21</td> <td>40.48</td> <td>27.70</td> <td>8.89</td> <td>36.28</td> <td>0.00</td> <td>397</td> <td>106</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2497.76</td> <td>16.00</td> <td>54.00</td> <td>-38.00</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>397</td> <td>106</td> <td>AVERAGE</td> </tr> </tbody> </table> | Limit       | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |     | Freq | Level   | Line | Margin | Level | Factor | Loss | Factor | Factor | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | 1 | 2497.76 | 40.79 | 74.00 | -33.21 | 40.48 | 27.70 | 8.89 | 36.28 | 0.00 | 397 | 106 | PEAK | 2 | 2497.76 | 16.00 | 54.00 | -38.00 | -- | -- | -- | -- | -- | 397 | 106 | AVERAGE | Blank |
| Limit | Read   | Ant         | Cable  | Preamp | Aux    | APos   | TPos   |        |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
| Freq  | Level  | Line        | Margin | Level  | Factor | Loss   | Factor | Factor |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
| MHz   | dBuV/m   | dBuV/m      | dB     | dBuV   | dB/m   | dB     | dB     | dB     |      |     |      |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
| 1     | 2497.76  | 40.79       | 74.00  | -33.21 | 40.48  | 27.70  | 8.89   | 36.28  | 0.00 | 397 | 106  | PEAK    |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |
| 2     | 2497.76  | 16.00       | 54.00  | -38.00 | --     | --     | --     | --     | --   | 397 | 106  | AVERAGE |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |       |



| Mode        | 2  |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|-------------|--|-------------|--------|--------|-------------|--------|--------|-------|--------|--------|--------|---------|-------|-------------|-------|--------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|-------|--------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|
|             | Harmonic   |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|             | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz   |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| ANT         | 1  |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| Pol.        | Horizontal   | Vertical    |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| Peak<br>Avg | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 HORIZONTAL</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th></th> <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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4882.00</td> <td>52.13</td> <td>74.00</td> <td>-21.87</td> <td>43.88</td> <td>32.59</td> <td>12.56</td> <td>37.57</td> <td>0.67</td> <td>101</td> <td>12</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>4882.00</td> <td>27.35</td> <td>54.00</td> <td>-26.65</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> <tr> <td>3</td> <td>7323.00</td> <td>48.14</td> <td>74.00</td> <td>-25.86</td> <td>34.10</td> <td>36.85</td> <td>15.45</td> <td>38.61</td> <td>0.35</td> <td>--</td> <td>--</td> <td>PEAK</td> </tr> <tr> <td>4</td> <td>7323.00</td> <td>23.36</td> <td>54.00</td> <td>-30.64</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </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 | cm | deg | 1 | 4882.00 | 52.13 | 74.00 | -21.87 | 43.88 | 32.59 | 12.56 | 37.57 | 0.67 | 101 | 12 | PEAK | 2 | 4882.00 | 27.35 | 54.00 | -26.65 | -- | -- | -- | -- | -- | -- | -- | Average | 3 | 7323.00 | 48.14 | 74.00 | -25.86 | 34.10 | 36.85 | 15.45 | 38.61 | 0.35 | -- | -- | PEAK | 4 | 7323.00 | 23.36 | 54.00 | -30.64 | -- | -- | -- | -- | -- | -- | -- | Average | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 VERTICAL</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th></th> <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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4882.00</td> <td>45.32</td> <td>74.00</td> <td>-28.68</td> <td>37.07</td> <td>32.59</td> <td>12.56</td> <td>37.57</td> <td>0.67</td> <td>--</td> <td>--</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>4882.00</td> <td>20.54</td> <td>54.00</td> <td>-33.46</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> <tr> <td>3</td> <td>7323.00</td> <td>48.24</td> <td>74.00</td> <td>-25.76</td> <td>34.20</td> <td>36.85</td> <td>15.45</td> <td>38.61</td> <td>0.35</td> <td>--</td> <td>--</td> <td>PEAK</td> </tr> <tr> <td>4</td> <td>7323.00</td> <td>23.46</td> <td>54.00</td> <td>-30.54</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </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 | cm | deg | 1 | 4882.00 | 45.32 | 74.00 | -28.68 | 37.07 | 32.59 | 12.56 | 37.57 | 0.67 | -- | -- | PEAK | 2 | 4882.00 | 20.54 | 54.00 | -33.46 | -- | -- | -- | -- | -- | -- | -- | Average | 3 | 7323.00 | 48.24 | 74.00 | -25.76 | 34.20 | 36.85 | 15.45 | 38.61 | 0.35 | -- | -- | PEAK | 4 | 7323.00 | 23.46 | 54.00 | -30.54 | -- | -- | -- | -- | -- | -- | -- | Average |
|             |  | 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    | cm     | deg    |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 1           | 4882.00  | 52.13       | 74.00  | -21.87 | 43.88       | 32.59  | 12.56  | 37.57 | 0.67   | 101    | 12     | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 2           | 4882.00  | 27.35       | 54.00  | -26.65 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 3           | 7323.00  | 48.14       | 74.00  | -25.86 | 34.10       | 36.85  | 15.45  | 38.61 | 0.35   | --     | --     | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 4           | 7323.00  | 23.36       | 54.00  | -30.64 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|             | 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    | cm     | deg    |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 1           | 4882.00  | 45.32       | 74.00  | -28.68 | 37.07       | 32.59  | 12.56  | 37.57 | 0.67   | --     | --     | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 2           | 4882.00  | 20.54       | 54.00  | -33.46 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 3           | 7323.00  | 48.24       | 74.00  | -25.76 | 34.20       | 36.85  | 15.45  | 38.61 | 0.35   | --     | --     | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 4           | 7323.00  | 23.46       | 54.00  | -30.54 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |



|                                  |   |   |
|----------------------------------|---|---|
|                                  | 2   |   |
| <b>Mode</b>                      | <b>Harmonic</b>   |   |
|                                  | <b>2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz</b>                                 |   |
| <b>ANT</b>                       | 1   |   |
| <b>Pol.</b>                      | <b>Horizontal</b>   | <b>Vertical</b>   |
| <b>14.47G<br/>~14.5G<br/>Avg</b> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 HORIZONTAL</p> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 VERTICAL</p> |
| <b>17.7G<br/>~18G<br/>Avg</b>    | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 HORIZONTAL</p> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 VERTICAL</p> |



| Mode | 3   |             |        |        |             |        |        |       |        |      |            |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
|------|---|-------------|--------|--------|-------------|--------|--------|-------|--------|------|------------|------|-------|-------------|-------|--------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|---------|---|---------|-------|-------|--------|----|----|----|----|----|-----|------------|--|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|-------|--------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|-------|--------|-------|------|-------|------|-----|---------|---|---------|-------|-------|-------|----|----|----|----|----|-----|------------|
|      | Band Edge   |             |        |        |             |        |        |       |        |      |            |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz  |             |        |        |             |        |        |       |        |      |            |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
| ANT  | 1   |             |        |        |             |        |        |       |        |      |            |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
| Pol. | Horizontal  | Fundamental |        |        |             |        |        |       |        |      |            |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
| Peak | <p>Site : 03CH20-HY<br/>Condition: PEAK_BE_74 3m HF_91200_02360_231030 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th></th> <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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.52</td> <td>44.66</td> <td>74.00</td> <td>-29.34</td> <td>44.43</td> <td>27.64</td> <td>8.86</td> <td>36.27</td> <td>0.00</td> <td>100</td> <td>23 PEAK</td> </tr> <tr> <td>2</td> <td>2483.52</td> <td>19.87</td> <td>54.00</td> <td>-34.13</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>100</td> <td>23 AVERAGE</td> </tr> </tbody> </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 | cm | deg | 1 | 2483.52 | 44.66 | 74.00 | -29.34 | 44.43 | 27.64 | 8.86 | 36.27 | 0.00 | 100 | 23 PEAK | 2 | 2483.52 | 19.87 | 54.00 | -34.13 | -- | -- | -- | -- | -- | 100 | 23 AVERAGE | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th></th> <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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2480.00</td> <td>104.44</td> <td>-----</td> <td>-----</td> <td>104.25</td> <td>27.60</td> <td>8.86</td> <td>36.27</td> <td>0.00</td> <td>100</td> <td>23 PEAK</td> </tr> <tr> <td>2</td> <td>2480.00</td> <td>79.65</td> <td>-----</td> <td>-----</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>100</td> <td>23 AVERAGE</td> </tr> </tbody> </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 | cm | deg | 1 | 2480.00 | 104.44 | ----- | ----- | 104.25 | 27.60 | 8.86 | 36.27 | 0.00 | 100 | 23 PEAK | 2 | 2480.00 | 79.65 | ----- | ----- | -- | -- | -- | -- | -- | 100 | 23 AVERAGE |
|      | 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    | cm     | deg  |            |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
| 1    | 2483.52   | 44.66       | 74.00  | -29.34 | 44.43       | 27.64  | 8.86   | 36.27 | 0.00   | 100  | 23 PEAK    |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
| 2    | 2483.52   | 19.87       | 54.00  | -34.13 | --          | --     | --     | --    | --     | 100  | 23 AVERAGE |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
|      | 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    | cm     | deg  |            |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
| 1    | 2480.00   | 104.44      | -----  | -----  | 104.25      | 27.60  | 8.86   | 36.27 | 0.00   | 100  | 23 PEAK    |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |
| 2    | 2480.00   | 79.65       | -----  | -----  | --          | --     | --     | --    | --     | 100  | 23 AVERAGE |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |    |    |    |    |    |     |            |  |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |        |       |      |       |      |     |         |   |         |       |       |       |    |    |    |    |    |     |            |



| Mode  | 3  |             |        |        |        |        |        |        |      |        |         |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
|-------|--|-------------|--------|--------|--------|--------|--------|--------|------|--------|---------|---------|------|--------|-------|--------|------|--------|--------|-----|--------|--------|----|------|------|----|----|----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|-----|-----|---------|---|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|------|--------|-------|--------|------|--------|--------|-----|--------|--------|----|------|------|----|----|----|---|---------|--------|-------|--------|-------|------|-------|------|-----|-----|------|---|---------|-------|-------|----|----|----|----|----|-----|-----|---------|
|       | Band Edge  |             |        |        |        |        |        |        |      |        |         |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
|       | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz   |             |        |        |        |        |        |        |      |        |         |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| ANT   | 1  |             |        |        |        |        |        |        |      |        |         |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| Pol.  | Vertical   | Fundamental |        |        |        |        |        |        |      |        |         |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| Peak  | <p>Site : 03CH20-HY<br/>Condition: PEAK_BE_74 3m HF_91200_02360_231030 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <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> </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> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.62</td> <td>42.72</td> <td>74.00</td> <td>-31.28</td> <td>42.49</td> <td>27.64</td> <td>8.86</td> <td>36.27</td> <td>0.00</td> <td>325</td> <td>250</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2483.62</td> <td>17.93</td> <td>54.00</td> <td>-36.07</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>325</td> <td>250</td> <td>AVERAGE</td> </tr> </tbody> </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 | 1 | 2483.62 | 42.72 | 74.00 | -31.28 | 42.49 | 27.64 | 8.86 | 36.27 | 0.00 | 325 | 250 | PEAK | 2 | 2483.62 | 17.93 | 54.00 | -36.07 | -- | -- | -- | -- | -- | 325 | 250 | AVERAGE | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <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> </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> </tr> </thead> <tbody> <tr> <td>1</td> <td>2480.00</td> <td>100.29</td> <td>-----</td> <td>100.10</td> <td>27.60</td> <td>8.86</td> <td>36.27</td> <td>0.00</td> <td>325</td> <td>250</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>2480.00</td> <td>75.50</td> <td>-----</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>325</td> <td>250</td> <td>AVERAGE</td> </tr> </tbody> </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 | 1 | 2480.00 | 100.29 | ----- | 100.10 | 27.60 | 8.86 | 36.27 | 0.00 | 325 | 250 | PEAK | 2 | 2480.00 | 75.50 | ----- | -- | -- | -- | -- | -- | 325 | 250 | AVERAGE |
| 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     |      |        |         |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| 1     | 2483.62  | 42.72       | 74.00  | -31.28 | 42.49  | 27.64  | 8.86   | 36.27  | 0.00 | 325    | 250     | PEAK    |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| 2     | 2483.62  | 17.93       | 54.00  | -36.07 | --     | --     | --     | --     | --   | 325    | 250     | AVERAGE |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| 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     |      |        |         |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| 1     | 2480.00  | 100.29      | -----  | 100.10 | 27.60  | 8.86   | 36.27  | 0.00   | 325  | 250    | PEAK    |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |
| 2     | 2480.00  | 75.50       | -----  | --     | --     | --     | --     | --     | 325  | 250    | AVERAGE |         |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |       |       |        |       |       |      |       |      |     |     |      |   |         |       |       |        |    |    |    |    |    |     |     |         |   |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |     |        |        |    |      |      |    |    |    |   |         |        |       |        |       |      |       |      |     |     |      |   |         |       |       |    |    |    |    |    |     |     |         |



| Mode        | 3   |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|-------------|---|-------------|--------|--------|-------------|--------|--------|-------|--------|--------|--------|---------|-------|-------------|-------|--------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|---|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|-------|--------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|----|----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|
|             | Harmonic  |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|             | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz  |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| ANT         | 1   |             |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| Pol.        | Horizontal  | Vertical    |        |        |             |        |        |       |        |        |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| Peak<br>Avg | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 HORIZONTAL</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th></th> <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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4960.00</td> <td>50.26</td> <td>74.00</td> <td>-23.74</td> <td>41.75</td> <td>32.94</td> <td>12.70</td> <td>37.63</td> <td>0.50</td> <td>101</td> <td>3</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>4960.00</td> <td>25.47</td> <td>54.00</td> <td>-28.53</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> <tr> <td>3</td> <td>7440.00</td> <td>47.15</td> <td>74.00</td> <td>-26.85</td> <td>33.50</td> <td>36.44</td> <td>15.59</td> <td>38.71</td> <td>0.33</td> <td>--</td> <td>--</td> <td>PEAK</td> </tr> <tr> <td>4</td> <td>7440.00</td> <td>22.36</td> <td>54.00</td> <td>-31.64</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </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 | cm | deg | 1 | 4960.00 | 50.26 | 74.00 | -23.74 | 41.75 | 32.94 | 12.70 | 37.63 | 0.50 | 101 | 3 | PEAK | 2 | 4960.00 | 25.47 | 54.00 | -28.53 | -- | -- | -- | -- | -- | -- | -- | Average | 3 | 7440.00 | 47.15 | 74.00 | -26.85 | 33.50 | 36.44 | 15.59 | 38.71 | 0.33 | -- | -- | PEAK | 4 | 7440.00 | 22.36 | 54.00 | -31.64 | -- | -- | -- | -- | -- | -- | -- | Average | <p>Site : 03CH20-HY<br/>Condition: PEAK_74 3m HF_91200_02360_231030 VERTICAL</p> <table border="1"> <thead> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th></th> <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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4960.00</td> <td>45.40</td> <td>74.00</td> <td>-28.60</td> <td>36.89</td> <td>32.94</td> <td>12.70</td> <td>37.63</td> <td>0.50</td> <td>--</td> <td>--</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>4960.00</td> <td>20.61</td> <td>54.00</td> <td>-33.39</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> <tr> <td>3</td> <td>7440.00</td> <td>47.90</td> <td>74.00</td> <td>-26.10</td> <td>34.25</td> <td>36.44</td> <td>15.59</td> <td>38.71</td> <td>0.33</td> <td>--</td> <td>--</td> <td>PEAK</td> </tr> <tr> <td>4</td> <td>7440.00</td> <td>23.11</td> <td>54.00</td> <td>-30.89</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </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 | cm | deg | 1 | 4960.00 | 45.40 | 74.00 | -28.60 | 36.89 | 32.94 | 12.70 | 37.63 | 0.50 | -- | -- | PEAK | 2 | 4960.00 | 20.61 | 54.00 | -33.39 | -- | -- | -- | -- | -- | -- | -- | Average | 3 | 7440.00 | 47.90 | 74.00 | -26.10 | 34.25 | 36.44 | 15.59 | 38.71 | 0.33 | -- | -- | PEAK | 4 | 7440.00 | 23.11 | 54.00 | -30.89 | -- | -- | -- | -- | -- | -- | -- | Average |
|             |   | 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    | cm     | deg    |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 1           | 4960.00   | 50.26       | 74.00  | -23.74 | 41.75       | 32.94  | 12.70  | 37.63 | 0.50   | 101    | 3      | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 2           | 4960.00   | 25.47       | 54.00  | -28.53 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 3           | 7440.00   | 47.15       | 74.00  | -26.85 | 33.50       | 36.44  | 15.59  | 38.71 | 0.33   | --     | --     | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 4           | 7440.00   | 22.36       | 54.00  | -31.64 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
|             | 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    | cm     | deg    |        |         |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 1           | 4960.00   | 45.40       | 74.00  | -28.60 | 36.89       | 32.94  | 12.70  | 37.63 | 0.50   | --     | --     | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 2           | 4960.00   | 20.61       | 54.00  | -33.39 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 3           | 7440.00   | 47.90       | 74.00  | -26.10 | 34.25       | 36.44  | 15.59  | 38.71 | 0.33   | --     | --     | PEAK    |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |
| 4           | 7440.00   | 23.11       | 54.00  | -30.89 | --          | --     | --     | --    | --     | --     | --     | Average |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |     |   |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |  |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |   |         |       |       |        |       |       |       |       |      |    |    |      |   |         |       |       |        |    |    |    |    |    |    |    |         |



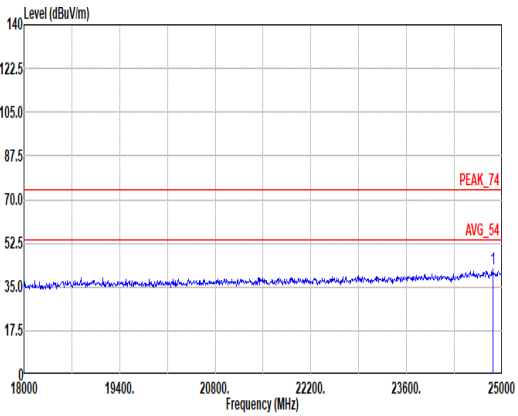
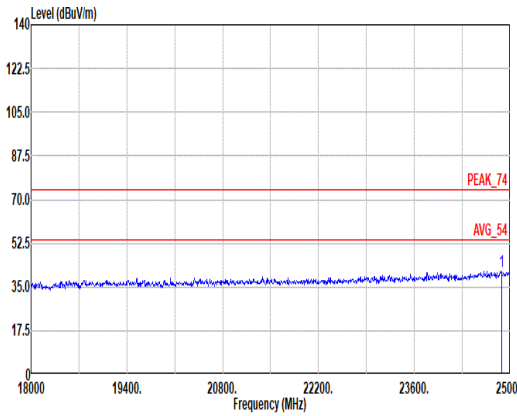
|                                  |   |   |
|----------------------------------|---|---|
|                                  | <b>3</b>  |   |
| <b>Mode</b>                      | <b>Harmonic</b>   |   |
|                                  | <b>2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz</b>                                 |   |
| <b>ANT</b>                       | <b>1</b>  |   |
| <b>Pol.</b>                      | <b>Horizontal</b>   | <b>Vertical</b>   |
| <b>14.47G<br/>~14.5G<br/>Avg</b> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 HORIZONTAL</p> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 VERTICAL</p> |
| <b>17.7G<br/>~18G<br/>Avg</b>    | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 HORIZONTAL</p> | <p>Site : 03CH20-HY<br/>Condition: AVG_54 3m HF_91200_02360_231030 VERTICAL</p> |



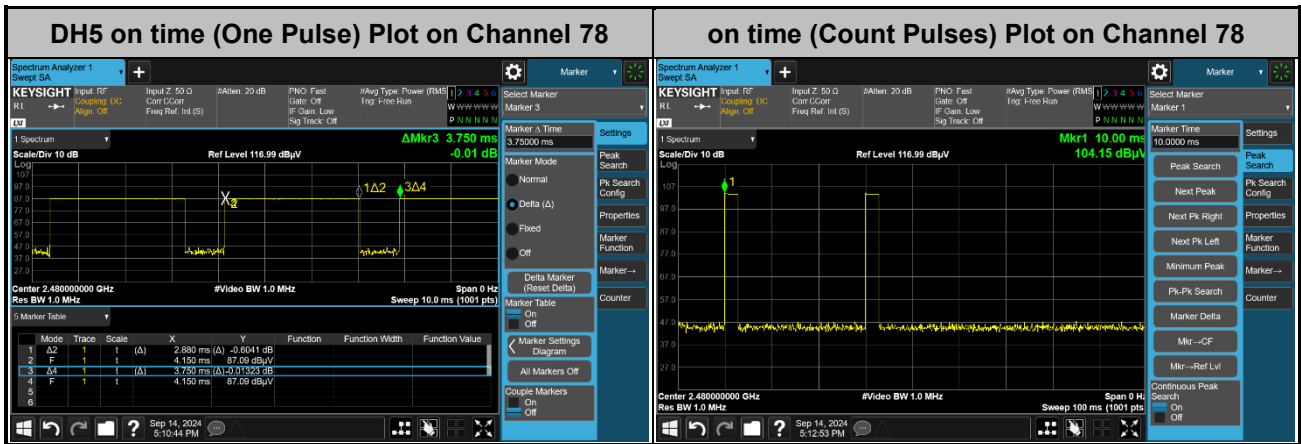


| Mode        | 4   |          |        |             |            |             |            |               |            |               |            |        |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
|-------------|---|----------|--------|-------------|------------|-------------|------------|---------------|------------|---------------|------------|--------|------|--------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|--|---|-------|-------|-------|-------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|--|------|------|-------|-------|-------------|------------|------------|------------|---------------|------------|------|------|--------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|--|---|-------|-------|-------|-------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|-------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|---|--------|-------|-------|--------|-------|-------|------|-------|------|----|----|------|
|             | LF  |          |        |             |            |             |            |               |            |               |            |        |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
|             | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz  |          |        |             |            |             |            |               |            |               |            |        |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| ANT         | 1   |          |        |             |            |             |            |               |            |               |            |        |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| Pol.        | Horizontal  | Vertical |        |             |            |             |            |               |            |               |            |        |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| QP/<br>Peak | <p>Site : 03CH20-HY<br/>Condition: QP 3m Bilog_55606 &amp; 08_231020 HORIZONTAL</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line Margin</th> <th>Read Level</th> <th>Ant Factor</th> <th>Cable Loss</th> <th>Preamp Factor</th> <th>Aux Factor</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th></th> <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> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>77.53</td><td>32.21</td><td>40.00</td><td>-7.79</td><td>52.29</td><td>13.59</td><td>1.67</td><td>35.54</td><td>0.20</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>2</td><td>138.64</td><td>23.97</td><td>43.50</td><td>-19.53</td><td>39.17</td><td>17.82</td><td>2.20</td><td>35.45</td><td>0.23</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>3</td><td>219.15</td><td>27.17</td><td>46.00</td><td>-18.83</td><td>44.06</td><td>15.40</td><td>2.71</td><td>35.28</td><td>0.20</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>4</td><td>384.05</td><td>31.97</td><td>46.00</td><td>-14.03</td><td>41.90</td><td>21.19</td><td>3.57</td><td>34.84</td><td>0.15</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>5</td><td>715.79</td><td>30.71</td><td>46.00</td><td>-15.29</td><td>32.54</td><td>27.06</td><td>4.81</td><td>33.86</td><td>0.16</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>6</td><td>954.41</td><td>34.80</td><td>46.00</td><td>-11.20</td><td>31.24</td><td>30.92</td><td>5.51</td><td>32.96</td><td>0.09</td><td>--</td><td>--</td><td>Peak</td></tr> </tbody> </table> | Peak     | Freq   | Level       | Limit      | Line Margin | Read Level | Ant Factor    | Cable Loss | Preamp Factor | Aux Factor | APos   | TPos | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  | 1 | 77.53 | 32.21 | 40.00 | -7.79 | 52.29 | 13.59 | 1.67 | 35.54 | 0.20 | -- | -- | Peak | 2 | 138.64 | 23.97 | 43.50 | -19.53 | 39.17 | 17.82 | 2.20 | 35.45 | 0.23 | -- | -- | Peak | 3 | 219.15 | 27.17 | 46.00 | -18.83 | 44.06 | 15.40 | 2.71 | 35.28 | 0.20 | -- | -- | Peak | 4 | 384.05 | 31.97 | 46.00 | -14.03 | 41.90 | 21.19 | 3.57 | 34.84 | 0.15 | -- | -- | Peak | 5 | 715.79 | 30.71 | 46.00 | -15.29 | 32.54 | 27.06 | 4.81 | 33.86 | 0.16 | -- | -- | Peak | 6 | 954.41 | 34.80 | 46.00 | -11.20 | 31.24 | 30.92 | 5.51 | 32.96 | 0.09 | -- | -- | Peak | <p>Site : 03CH20-HY<br/>Condition: QP 3m Bilog_55606 &amp; 08_231020 VERTICAL</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line Margin</th> <th>Read Level</th> <th>Ant Factor</th> <th>Cable Loss</th> <th>Preamp Factor</th> <th>Aux Factor</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th></th> <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> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>45.52</td><td>33.69</td><td>40.00</td><td>-6.31</td><td>50.97</td><td>16.78</td><td>1.30</td><td>35.58</td><td>0.22</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>2</td><td>127.00</td><td>33.89</td><td>43.50</td><td>-9.61</td><td>49.34</td><td>17.69</td><td>2.11</td><td>35.46</td><td>0.21</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>3</td><td>262.80</td><td>22.90</td><td>46.00</td><td>-23.10</td><td>34.68</td><td>20.26</td><td>2.97</td><td>35.20</td><td>0.19</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>4</td><td>416.06</td><td>30.68</td><td>46.00</td><td>-15.32</td><td>39.14</td><td>22.45</td><td>3.71</td><td>34.77</td><td>0.15</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>5</td><td>708.03</td><td>30.43</td><td>46.00</td><td>-15.57</td><td>32.63</td><td>26.75</td><td>4.79</td><td>33.91</td><td>0.17</td><td>--</td><td>--</td><td>Peak</td></tr> <tr><td>6</td><td>952.47</td><td>35.71</td><td>46.00</td><td>-10.29</td><td>32.21</td><td>30.86</td><td>5.51</td><td>32.97</td><td>0.10</td><td>--</td><td>--</td><td>Peak</td></tr> </tbody> </table> | Peak | Freq | Level | Limit | Line Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  | 1 | 45.52 | 33.69 | 40.00 | -6.31 | 50.97 | 16.78 | 1.30 | 35.58 | 0.22 | -- | -- | Peak | 2 | 127.00 | 33.89 | 43.50 | -9.61 | 49.34 | 17.69 | 2.11 | 35.46 | 0.21 | -- | -- | Peak | 3 | 262.80 | 22.90 | 46.00 | -23.10 | 34.68 | 20.26 | 2.97 | 35.20 | 0.19 | -- | -- | Peak | 4 | 416.06 | 30.68 | 46.00 | -15.32 | 39.14 | 22.45 | 3.71 | 34.77 | 0.15 | -- | -- | Peak | 5 | 708.03 | 30.43 | 46.00 | -15.57 | 32.63 | 26.75 | 4.79 | 33.91 | 0.17 | -- | -- | Peak | 6 | 952.47 | 35.71 | 46.00 | -10.29 | 32.21 | 30.86 | 5.51 | 32.97 | 0.10 | -- | -- | Peak |
| Peak        | Freq  | Level    | Limit  | Line Margin | Read Level | Ant Factor  | Cable Loss | Preamp Factor | Aux Factor | APos          | TPos       | Remark |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
|             | MHz   | dBuV/m   | dBuV/m | dB          | dBuV       | dB/m        | dB         | dB            | dB         | cm            | deg        |        |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 1           | 77.53   | 32.21    | 40.00  | -7.79       | 52.29      | 13.59       | 1.67       | 35.54         | 0.20       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 2           | 138.64  | 23.97    | 43.50  | -19.53      | 39.17      | 17.82       | 2.20       | 35.45         | 0.23       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 3           | 219.15  | 27.17    | 46.00  | -18.83      | 44.06      | 15.40       | 2.71       | 35.28         | 0.20       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 4           | 384.05  | 31.97    | 46.00  | -14.03      | 41.90      | 21.19       | 3.57       | 34.84         | 0.15       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 5           | 715.79  | 30.71    | 46.00  | -15.29      | 32.54      | 27.06       | 4.81       | 33.86         | 0.16       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 6           | 954.41  | 34.80    | 46.00  | -11.20      | 31.24      | 30.92       | 5.51       | 32.96         | 0.09       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| Peak        | Freq  | Level    | Limit  | Line Margin | Read Level | Ant Factor  | Cable Loss | Preamp Factor | Aux Factor | APos          | TPos       | Remark |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
|             | MHz   | dBuV/m   | dBuV/m | dB          | dBuV       | dB/m        | dB         | dB            | dB         | cm            | deg        |        |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 1           | 45.52   | 33.69    | 40.00  | -6.31       | 50.97      | 16.78       | 1.30       | 35.58         | 0.22       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 2           | 127.00  | 33.89    | 43.50  | -9.61       | 49.34      | 17.69       | 2.11       | 35.46         | 0.21       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 3           | 262.80  | 22.90    | 46.00  | -23.10      | 34.68      | 20.26       | 2.97       | 35.20         | 0.19       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 4           | 416.06  | 30.68    | 46.00  | -15.32      | 39.14      | 22.45       | 3.71       | 34.77         | 0.15       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 5           | 708.03  | 30.43    | 46.00  | -15.57      | 32.63      | 26.75       | 4.79       | 33.91         | 0.17       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |
| 6           | 952.47  | 35.71    | 46.00  | -10.29      | 32.21      | 30.86       | 5.51       | 32.97         | 0.10       | --            | --         | Peak   |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |  |      |      |       |       |             |            |            |            |               |            |      |      |        |  |     |        |        |    |      |      |    |    |    |    |     |  |   |       |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |       |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |   |        |       |       |        |       |       |      |       |      |    |    |      |



| Mode  | 23  |             |       |        |             |        |       |        |        |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
|-------|---|-------------|-------|--------|-------------|--------|-------|--------|--------|--------|------|-------|-------------|-------|--------|-------------|--------|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|----------|-------|-------|--------|-------|-------|-------|-------|-------|----|----|------|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|-------|--------|-------------|--------|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|----------|-------|-------|--------|-------|-------|-------|-------|-------|----|----|------|
|       | SHF   |             |       |        |             |        |       |        |        |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
|       | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz  |             |       |        |             |        |       |        |        |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
| ANT   | 1   |             |       |        |             |        |       |        |        |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
| Pol.  | Horizontal  | Vertical    |       |        |             |        |       |        |        |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
| Peak  |  <p>Site : 03CH20-HY<br/>Condition: PEAK_74 1m BBHA9170_1224_240624 HORIZONTAL<br/>Mode : 23<br/>Setting :<br/>Plane :</p> <table border="1"> <thead> <tr> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>24867.00</td> <td>42.40</td> <td>74.00</td> <td>-31.60</td> <td>36.77</td> <td>39.43</td> <td>29.02</td> <td>53.28</td> <td>-9.54</td> <td>--</td> <td>--</td> <td>Peak</td> </tr> </tbody> </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 | cm | deg | 1 | 24867.00 | 42.40 | 74.00 | -31.60 | 36.77 | 39.43 | 29.02 | 53.28 | -9.54 | -- | -- | Peak |  <p>Site : 03CH20-HY<br/>Condition: PEAK_74 1m BBHA9170_1224_240624 VERTICAL<br/>Mode : 23<br/>Setting :<br/>Plane :</p> <table border="1"> <thead> <tr> <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 Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></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>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>24874.00</td> <td>41.46</td> <td>74.00</td> <td>-32.54</td> <td>35.86</td> <td>39.40</td> <td>29.02</td> <td>53.28</td> <td>-9.54</td> <td>--</td> <td>--</td> <td>Peak</td> </tr> </tbody> </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 | cm | deg | 1 | 24874.00 | 41.46 | 74.00 | -32.54 | 35.86 | 39.40 | 29.02 | 53.28 | -9.54 | -- | -- | Peak |
|       | 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    | cm     | deg    |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
| 1     | 24867.00  | 42.40       | 74.00 | -31.60 | 36.77       | 39.43  | 29.02 | 53.28  | -9.54  | --     | --   | Peak  |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
| 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    | cm     | deg    |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |
| 1     | 24874.00  | 41.46       | 74.00 | -32.54 | 35.86       | 39.40  | 29.02 | 53.28  | -9.54  | --     | --   | Peak  |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |  |       |      |     |       |        |     |      |      |        |      |       |             |       |        |             |        |  |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |       |    |    |      |

## Appendix D. Duty Cycle Plots



**Note:**

1. Worst case Duty cycle = on time/100 milliseconds =  $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor =  $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. **DH5** has the highest duty cycle worst case and is reported.

**Duty Cycle Correction Factor Consideration for AFH mode:**

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$2.88 \text{ ms} \times 20 \text{ channels} = 57.6 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period.  $[100 \text{ ms} / 57.6 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

$$2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(5.76 \text{ ms}/100 \text{ ms}) = -24.79 \text{ dB}$$