



# FCC TEST REPORT (Part 15, Subpart C)

| Applicant: | Xiaomi Communications Co., Ltd.   |
|------------|---|
| Address:   | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |

| Manufacturer or Supplier: | Xiaomi Communications Co., Ltd.  |  |  |  |
|---------------------------|--|--|--|--|
| Address:                  | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,<br>China, 100085 |  |  |  |
| Product:                  | Mobile Phone   |  |  |  |
| Brand Name:               | POCO   |  |  |  |
| Model Name:               | 25053PC47G   |  |  |  |
| FCC ID:                   | 2AFZZPC47G   |  |  |  |
| Date of tests:            | Feb. 13, 2025-Mar. 26, 2025  |  |  |  |

The tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart C, Section 15.247

**M** ANSI C63.10-2020

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

| Prepared by Hanwen Xu        | Approved by Peibo Sun       |
|------------------------------|-----------------------------|
| Engineer / Mobile Department | Manager / Mobile Department |
| Lu Hannen                    | Simple: bo                  |
| Date: Mar. 26, 2025          | Date: Mar. 26, 2025         |

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/tems-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/tems-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of amaterial error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



# **TABLE OF CONTENTS**

| R | ELEASE (         | CONTROL RECORD                                       | 4      |
|---|------------------|--|--------|
| 1 | SUMM             | IARY OF TEST RESULTS                                 | 5      |
|   | 1.1 ME/          | ASUREMENT UNCERTAINTY                                | 6      |
| 2 | GENE             | RAL INFORMATION                                      | 7      |
|   |                  | NERAL DESCRIPTION OF EUT                             |        |
|   |                  | SCRIPTION OF TEST MODES                              |        |
|   | 2.2.1            |  | 9      |
|   | 2.2.2            | TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL    | 9      |
|   | 2.3 GEN          | NERAL DESCRIPTION OF APPLIED STANDARDS               |        |
|   | 2.4 DES          | SCRIPTION OF SUPPORT UNITS                           | 11     |
| 3 | TEST             | TYPES AND RESULTS                                    | 12     |
|   | 3.1 COI          | NDUCTED EMISSION MEASUREMENT                         | 12     |
|   | 3.1.1            | LIMITS OF CONDUCTED EMISSION MEASUREMENT             | 12     |
|   | 3.1.2            | TEST INSTRUMENTS                                     | 13     |
|   | 3.1.3            | TEST PROCEDURES                                      | 14     |
|   | 3.1.4            | DEVIATION FROM TEST STANDARD                         |        |
|   | 3.1.5            | TEST SETUP   | 15     |
|   | 3.1.6            | EUT OPERATING CONDITIONS                             |        |
|   | 3.1.7            | TEST RESULTSDIATED EMISSION AND BANDEDGE MEASUREMENT | 16     |
|   | 3.2 RAL<br>3.2.1 | LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT |        |
|   | 3.2.1            | TEST INSTRUMENTS                                     |        |
|   | 3.2.3            | TEST PROCEDURES                                      |        |
|   | 3.2.4            | DEVIATION FROM TEST STANDARD                         |        |
|   | 3.2.5            | TEST SETUP   |        |
|   | 3.2.6            | EUT OPERATING CONDITIONS                             | 22     |
|   | 3.2.7            | TEST RESULTS   |        |
|   |                  | MBER OF HOPPING FREQUENCY USED                       | 55     |
|   | 3.3.1            | LIMIT OF HOPPING FREQUENCY USED                      |        |
|   | 3.3.2            | TEST SETUP   |        |
|   | 3.3.3<br>3.3.4   | TEST INSTRUMENTS TEST PROCEDURES                     |        |
|   | 3.3.4<br>3.3.5   | DEVIATION FROM TEST STANDARD                         |        |
|   | 3.3.6            | TEST RESULTS   |        |
|   |                  | ELL TIME ON EACH CHANNEL                             |        |
|   |                  | LIMIT OF DWELL TIME USED                             |        |
|   | 3.4.2            | TEST SETUP   |        |
|   | 3.4.3            | TEST INSTRUMENTS                                     | 58     |
|   | 3.4.4            | TEST PROCEDURES                                      |        |
|   | 3.4.5            | DEVIATION FROM TEST STANDARD                         |        |
|   | 3.4.6            | TEST RESULTS   |        |
|   |                  | ANNEL BANDWIDTH                                      |        |
|   | 3.5.1            | LIMITS OF CHANNEL BANDWIDTHTEST SETUP                |        |
|   | 3.5.2<br>3.5.3   | TEST INSTRUMENTS                                     |        |
|   | 3.5.4            | TEST PROCEDURE                                       |        |
|   | 3.5.5            | DEVIATION FROM TEST STANDARD                         |        |
|   | 3.5.6            | EUT OPERATING CONDITION                              |        |
|   | 3.5.7            | TEST RESULTS   |        |
|   |                  | PPING CHANNEL SEPARATION                             | 62     |
|   | 3.6.1            | LIMIT OF HOPPING CHANNEL SEPARATION                  |        |
|   | 3.6.2            | TEST SETUP   |        |
|   | 3.6.3            | TEST INSTRUMENTS                                     |        |
|   | 3.6.4            | TEST PROCEDURES                                      | 62     |
|   | Huarui 7lav      | ers High Technology                                  | (0557) |



| VE | RITAS       |  |            |
|----|-------------|--|------------|
|    | 3.6.1       | DEVIATION FROM TEST STANDARD                           |            |
|    | 3.6.2       | TEST RESULTS   |            |
| 3  | .7 MAX      | XIMUM OUTPUT POWER                                     |            |
|    | 3.7.1       | LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT             | 63         |
|    | 3.7.2       | TEST SETUP   | 63         |
|    | 3.7.3       | TEST INSTRUMENTS                                       | 63         |
|    | 3.7.4       | TEST PROCEDURES  | 63         |
|    | 3.7.5       | DEVIATION FROM TEST STANDARD                           | 64         |
|    | 3.7.6       | EUT OPERATING CONDITION                                |            |
|    | 3.7.7       | 12011(2002)  |            |
|    | 3.7.7.1     |  |            |
|    | 3.7.7.2     | 2 AVERAGE OUTPUT POWER (FOR REFERENCE)                 | 64         |
| 3  | .8 OU       | T OF BAND MEASUREMENT                                  |            |
|    | 3.8.1       | LIMITS OF OUT OF BAND MEASUREMENT                      |            |
|    | 3.8.2       | TEST INSTRUMENTS                                       | 65         |
|    | 3.8.3       | TEST PROCEDURE   | 65         |
|    | 3.8.4       | DEVIATION FROM TEST STANDARD                           |            |
|    | 3.8.5       | EUT OPERATING CONDITION                                |            |
|    | 3.8.6       | TEST RESULTS   | 65         |
| 4  | PHOT        | OGRAPHS OF THE TEST CONFIGURATION                      | 66         |
| 5  | MODIF<br>67 | FICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT | BY THE LAB |
| 6  | APPE        | NDIX   | 68         |



# **RELEASE CONTROL RECORD**

| ISSUE NO.             | REASON FOR CHANGE | DATE ISSUED   |
|-----------------------|-------------------|---------------|
| PSZ-QBJ2501200112RF09 | Original release  | Mar. 26, 2025 |



# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart C |  |            |  |  |  |  |  |
|--|--|------------|--|--|--|--|--|
| STANDARD                                 | TEST TYPE AND LIMIT RESULT   |            |  |  |  |  |  |
| 15.207                                   | AC Power Conducted Emission  | Compliance |  |  |  |  |  |
| (111)                                    | Number of Hopping Frequency Used   | Compliance |  |  |  |  |  |
| 15.247(a)(1)<br>(iii)                    | Dwell Time on Each Channel   | Compliance |  |  |  |  |  |
| 15.247(a)(1)                             | Hopping Channel Separation     Spectrum Bandwidth of a Frequency Hopping Sequence     Spread Spectrum System | Compliance |  |  |  |  |  |
| 15.247(b)                                | Maximum Peak Output Power  | Compliance |  |  |  |  |  |
| 15.247(d)&<br>15.209                     | Transmitter Radiated Emissions Com   |            |  |  |  |  |  |
| 15.247(d)                                | Out of band Measurement  | Compliance |  |  |  |  |  |
| 15.203                                   | Antenna Requirement  | Compliance |  |  |  |  |  |

#### NOTE:

- If the Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or twothirds of the 20dB bandwidth of hopping channel whichever is greater.
- 2. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

#### \*Test Lab Information Reference

#### Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

#### Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

#### Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

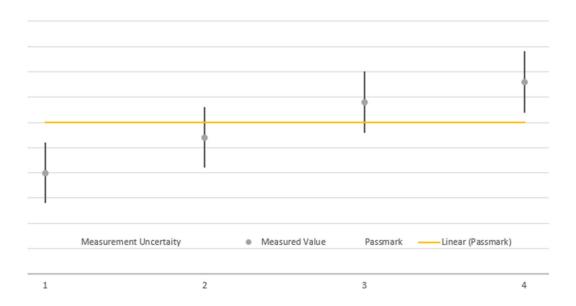


# 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT                       | UNCERTAINTY |
|-----------------------------------|-------------|
| AC Power Conducted emissions      | ±2.70dB     |
| Radiated emissions (9KHz~30MHz)   | ±2.68dB     |
| Radiated emissions (30MHz~1GHz)   | ±4.98dB     |
| Radiated emissions (1GHz ~6GHz)   | ±4.70dB     |
| Radiated emissions (6GHz ~18GHz)  | ±4.60dB     |
| Radiated emissions (18GHz ~40GHz) | ±4.12dB     |
| Conducted emissions               | ±4.01dB     |
| Occupied Channel Bandwidth        | ±43.58KHz   |
| Conducted Output power            | ±2.06dB     |
| Power Spectral Density            | ±0.85 dB    |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



The verdicts in this test report are given according the above diagram:

| Case | Measured Value  | Uncertainty Range | Verdict |
|------|-----------------|-------------------|---------|
| 1    | below pass mark | below pass mark   | Passed  |
| 2    | below pass mark | within pass mark  | Passed  |
| 3    | above pass mark | within pass mark  | Failed  |
| 4    | above pass mark | above pass mark   | Failed  |

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

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# **2 GENERAL INFORMATION**

# 2.1 GENERAL DESCRIPTION OF EUT

| PRODUCT*          | Mobile Phone  |          |  |
|-------------------|---|----------|--|
| BRAND NAME*       | POCO  |          |  |
| MODEL NAME*       | 25053PC47G  |          |  |
| NOMINAL VOLTAGE*  | 5/3.6-20V dc (adapter or host equipment)  |          |  |
|                   | 3.93Vdc (Li-ion, battery)   |          |  |
| MODULATION        | FHSS  |          |  |
| TECHNOLOGY        | 11.00   |          |  |
| MODULATION TYPE   | GFSK, π/4 DQPSK,8DPSK   |          |  |
| OPERATING         | 2402MHz 2490MHz   |          |  |
| FREQUENCY         | 2402MHz~2480MHz   |          |  |
| NUMBER OF CHANNEL | 79  |          |  |
| MAX. OUTPUT POWER | 99.77mW (Max. Measured)   |          |  |
| ANTENNA GAIN*     | ANT0  | -0.02dBi |  |
| ANTENNA GAIN      | ANT1  | -2.74dBi |  |
| ANTENNA TYPE*     | PIFA  |          |  |
| HW VERSION*       | 13510O10U   |          |  |
| SW VERSION*       | Xiaomi HyperOS 2.0  |          |  |
| I/O PORTS*        | Refer to user's manual  |          |  |
| CABLE SUPPLIED*   | USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter |          |  |

#### NOTE:

- \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



# 2.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

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

#### 2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 4 photograph of the test configuration for reference.

#### 2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE |       | APPLICA | ABLE TO |           | DESCRIPTION |  |  |
|---------------|-------|---------|---------|-----------|-------------|--|--|
| MODE          | RE<1G | RE≥1G   | PLC     | APCM      | DESCRIPTION |  |  |
| -             | V     | V       | V       | $\sqrt{}$ | -           |  |  |

Where

**RE<1G:** Radiated Emission below 1GHz **PLC:** Power Line Conducted Emission

**RE≥1G:** Radiated Emission above 1GHz **APCM:** Antenna Port Conducted Measurement

#### **RADIATED EMISSION TEST (BELOW 1 GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE<br>MODE | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION TYPE | PACKET TYPE |  |
|-----------------------|----------------------|-------------------|--------------------------|-----------------|-------------|--|
| -                     | 0 to 78              | 39                | FHSS                     | GFSK            | 1DH5        |  |

#### **RADIATED EMISSION TEST (ABOVE 1 GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE<br>MODE | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION TYPE | PACKET<br>TYPE |
|-----------------------|----------------------|-------------------|--------------------------|-----------------|----------------|
| -                     | 0 to 78              | 0, 39, 78         | FHSS                     | GFSK            | 1DH5           |
| -                     | 0 to 78              | 0, 39, 78         | FHSS                     | π/4 DQPSK       | 2DH5           |
| -                     | 0 to 78              | 0, 39, 78         | FHSS                     | 8DPSK           | 3DH5           |



#### **POWER LINE CONDUCTED EMISSION TEST:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.

The following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE | AVAILABLE | TESTED  | MODULATION | MODULATION TYPE | PACKET |
|---------------|-----------|---------|------------|-----------------|--------|
| MODE          | CHANNEL   | CHANNEL | TECHNOLOGY |                 | TYPE   |
| -             | 0 to 78   | 78      | FHSS       | $\pi$ /4-DQPSK  | 2DH5   |

#### **ANTENNA PORT CONDUCTED MEASUREMENT:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- The following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|-------------------|----------------|--------------------------|-----------------|-------------|
| 0 to 78           | 0, 39, 78      | FHSS                     | GFSK            | DH5         |
| 0 to 78           | 0, 39, 78      | FHSS                     | π/4 DQPSK       | 2DH5        |
| 0 to 78           | 0, 39, 78      | FHSS                     | 8DPSK           | 3DH5        |

| TEST CONDITION |                          |                          |           |  |  |  |  |
|----------------|--------------------------|--------------------------|-----------|--|--|--|--|
| APPLICABLE TO  | ENVIRONMENTAL CONDITIONS | TEST VOLTAGE<br>(SYSTEM) | TESTED BY |  |  |  |  |
| RE<1G          | 23deg. C, 70%RH          | DC 3.93V By Adapter      | Hanwen Xu |  |  |  |  |
| RE≥1G          | 23deg. C, 70%RH          | DC 3.93V By Adapter      | Hanwen Xu |  |  |  |  |
| PLC            | 25deg. C, 52%RH          | DC 3.93V By Adapter      | Hanwen Xu |  |  |  |  |
| APCM           | 25deg. C, 60%RH          | DC 3.93V By Adapter      | Hanwen Xu |  |  |  |  |



#### 2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. Section 15.247 ANSI C63.10-2020

#### NOTE:

- 1. All test items have been performed and recorded as per the above standards.
- 2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

#### 2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND  | MODEL NO.    | SERIAL NO. | FCC ID |
|-----|---------|--------|--------------|------------|--------|
| 1   | Laptop  | Lenovo | ThinkPad E14 | HRSW00024  | N/A    |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS              |  |  |  |  |  |
|-----|--|--|--|--|--|--|
| 1   | USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter |  |  |  |  |  |
| 2   | USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter |  |  |  |  |  |



# **3 TEST TYPES AND RESULTS**

#### 3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dBμV) |          |  |
|-----------------------------|------------------------|----------|--|
| 0.15 ~ 0.5                  | Quasi-peak             | Average  |  |
| 0.5 ~ 5                     | 66 to 56               | 56 to 46 |  |
| 5 ~ 30                      | 56                     | 46       |  |
|                             | 60                     | 50       |  |

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



# 3.1.2 TEST INSTRUMENTS

| Equipment             | Manufacturer  | Model No. | Serial No. | Last Cal. | Next Cal. |
|-----------------------|---------------|-----------|------------|-----------|-----------|
| EMI Test Receiver     | Rohde&Schwarz | ESR3      | 102749     | Feb.24,24 | Feb.23,26 |
| ELEKTRA test software | Rohde&Schwarz | ELEKTRA   | NA         | N/A       | N/A       |
| LISN network          | Rohde&Schwarz | ENV216    | 102640     | Feb.16,24 | Feb.15,26 |
| CABLE                 | Rohde&Schwarz | W61.01    | N/A        | Apr.27,24 | Apr.26,25 |
| CABLE                 | Rohde&Schwarz | W601      | N/A        | Apr.27,24 | Apr.26,25 |

#### NOTE:

- 1. The test was performed in CE shielded room.
- 2. The calibration interval of the above test instruments is 12 /24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



#### 3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

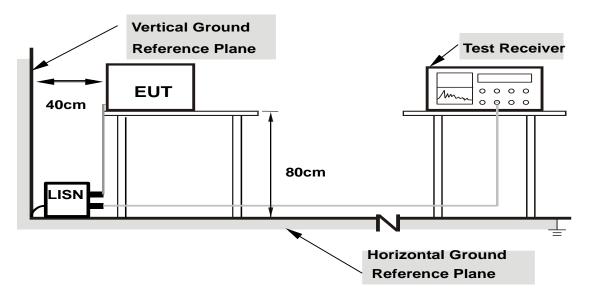
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



#### 3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



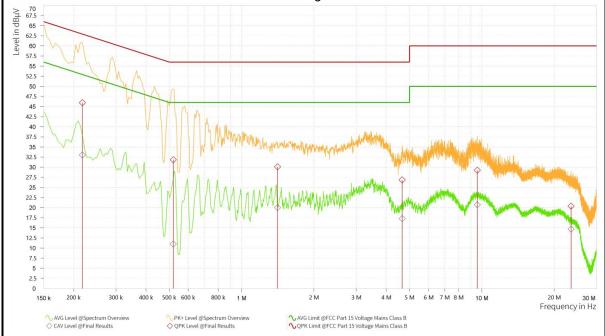
#### 3.1.7 TEST RESULTS

| CONDUCTED WORST-CASE DATA |                |  |  |  |  |  |
|---------------------------|----------------|--|--|--|--|--|
| FREQUENCY<br>RANGE        | 150KHz ~ 30MHz | DETECTOR FUNCTION & RESOLUTION BANDWIDTH | Quasi-Peak (QP) /<br>Average (AV), 9 kHz |  |  |  |
| INPUT POWER               | 120Vac, 60Hz   | ENVIRONMENTAL CONDITIONS                 | 26deg. C, 51%RH                          |  |  |  |
| TESTED BY                 | Hanwen Xu      |  |  |  |  |  |

| Rg | Frequency<br>[MHz] | QPK Level<br>[dBµV] | QPK Limit<br>[dBµV] | QPK<br>Margin<br>[dB] | CAV Level<br>[dBµV] | CAV: AVG<br>Limit<br>[dBµV] | CAV<br>Margin<br>[dB] | Correction<br>[dB] | Line | Meas.<br>BW<br>[kHz] |
|----|--------------------|---------------------|---------------------|-----------------------|---------------------|-----------------------------|-----------------------|--------------------|------|----------------------|
| 1  | 0.218              | 45.94               | 62.91               | 16.97                 | 33.02               | 52.91                       | 19.89                 | 11.97              | L1   | 9.000                |
| 1  | 0.519              | 31.84               | 56.00               | 24.16                 | 10.97               | 46.00                       | 35.03                 | 11.75              | L1   | 9.000                |
| 1  | 1.410              | 30.10               | 56.00               | 25.90                 | 20.01               | 46.00                       | 25.99                 | 11.75              | L1   | 9.000                |
| 1  | 4.659              | 26.86               | 56.00               | 29.14                 | 17.30               | 46.00                       | 28.70                 | 11.79              | L1   | 9.000                |
| 1  | 9.578              | 29.25               | 60.00               | 30.75                 | 20.73               | 50.00                       | 29.27                 | 11.83              | L1   | 9.000                |
| 1  | 23.528             | 20.39               | 60.00               | 39.61                 | 14.67               | 50.00                       | 35.33                 | 11.89              | L1   | 9.000                |

#### **REMARKS:**

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



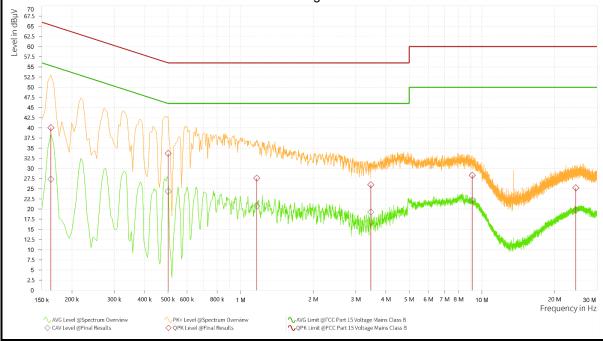


| FREQUENCY<br>RANGE |              | DETECTOR FUNCTION<br>& RESOLUTION<br>BANDWIDTH | Quasi-Peak (QP) /<br>Average (AV), 9 kHz |
|--------------------|--------------|--|--|
| INPUT POWER        | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS                       | 26deg. C, 51%RH                          |
| TESTED BY          | Hanwen Xu    |  |  |

| Rg | Frequency<br>[MHz] | QPK<br>Level<br>[dBµV] | QPK<br>Limit<br>[dBµV] | QPK<br>Margin<br>[dB] | CAV<br>Level<br>[dBµV] | CAV:<br>AVG<br>Limit<br>[dBµV] | CAV<br>Margin<br>[dB] | Correction [dB] | Line | Meas.<br>BW<br>[kHz] |
|----|--------------------|------------------------|------------------------|-----------------------|------------------------|--------------------------------|-----------------------|-----------------|------|----------------------|
| 1  | 0.164              | 40.02                  | 65.28                  | 25.26                 | 27.36                  | 55.28                          | 27.92                 | 12.18           | N    | 9.000                |
| 1  | 0.501              | 33.71                  | 56.00                  | 22.29                 | 24.37                  | 46.00                          | 21.63                 | 12.78           | N    | 9.000                |
| 1  | 1.167              | 27.62                  | 56.00                  | 28.38                 | 20.72                  | 46.00                          | 25.28                 | 12.73           | N    | 9.000                |
| 1  | 3.467              | 25.98                  | 56.00                  | 30.02                 | 19.27                  | 46.00                          | 26.73                 | 12.75           | N    | 9.000                |
| 1  | 9.123              | 28.30                  | 60.00                  | 31.70                 | 22.20                  | 50.00                          | 27.80                 | 12.79           | N    | 9.000                |
| 1  | 24.536             | 25.24                  | 60.00                  | 34.76                 | 19.74                  | 50.00                          | 30.26                 | 12.87           | N    | 9.000                |

#### **REMARKS:**

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 7. Emission Level = Correction Factor + Reading Value.





#### 3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

| FREQUENCIES (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                             |

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



# 3.2.2 TEST INSTRUMENTS

| Equipment                       | Manufacturer                       | Model No.   | Serial No.                | Last Cal. | Next Cal. |
|---------------------------------|------------------------------------|-------------|---------------------------|-----------|-----------|
| Pre-Amplifier                   | R&S                                | SCU18F1     | 100815                    | Aug.29,24 | Aug.28,26 |
| Pre-Amplifier                   | R&S                                | SCU08F1     | 101028                    | Sep.15,24 | Sep.14,26 |
| Signal Generator                | R&S                                | SMB100A     | 182185                    | Feb.15,24 | Feb.14,26 |
| 3m Semi-anechoic<br>Chamber     | TDK                                | 9m*6m*6m    | HRSW-SZ-EMC-<br>02Chamber | Nov.25,22 | Nov.24,25 |
| EMI TEST Receiver               | R&S                                | ESW44       | 101973                    | Feb.24,24 | Feb.23,26 |
| Bilog Antenna                   | SCHWARZBECK                        | VULB 9163   | 1264                      | Feb.27,24 | Feb.26,26 |
| Horn Antenna                    |                                    | 3117        | 227836                    | Aug.21,24 | Aug.20,26 |
| Horn Antenna<br>(18GHz-40GHz)   | Steatite Q-par<br>Antennas         | QMS 00880   | 23486                     | Feb.22,24 | Feb.21,26 |
| Horn Antenna                    | Steatite Q-par<br>Antennas         | QMS 00208   | 23485                     | Aug.21,24 | Aug.20,26 |
| Loop Antenna                    | SCHWARZ                            | HFH2-Z2/Z2E | 100976                    | Feb.22,24 | Feb.21,26 |
| WIDEBANDRADIO                   |                                    |             |                           |           |           |
| COMMUNICATION                   | R&S                                | CMW500      | 169399                    | Jun.26,24 | Jun.25,26 |
| TESTER                          |                                    |             |                           |           |           |
| Test Software                   | ELEKTRA                            | ELEKTRA4.32 | N/A                       | N/A       | N/A       |
| Open Switch and<br>Control Unit | R&S                                | OSP220      | 101964                    | N/A       | N/A       |
| DC Source                       | HYELEC                             | HY3010B     | 551016                    | Aug.30,24 | Aug.29,26 |
| Hygrothermograph                | DELI                               | 20210528    | SZ014                     | Sep.05,24 | Sep.04,26 |
| 6DB attenuator                  | Tonscend<br>Technology Co.,<br>Ltd | N/A         | 23062787                  | N/A       | N/A       |
| PC                              | LENOVO                             | E14         | HRSW0024                  | N/A       | N/A       |
| TMC-                            | D O C                              | HF290-NMNM- | NI/A                      | N/A       | N/A       |
| AMI18843A(CABLE)                | R&S                                | 7.00M       | N/A                       | IN/A      | IN/A      |
| TMC-                            | R&S                                | HF290-NMNM- | N/A                       | N/A       | N/A       |
| AMI18843A(CABLE)                | Nas                                | 4.00M       | IN/A                      | IN/A      | 14/74     |
| CABLE                           | R&S                                | W13.02      | N/A                       | Apr.27,24 | Apr.26,25 |
| CABLE                           | R&S                                | W12.14      | N/A                       | Apr.27,24 | Apr.26,25 |

#### NOTE:

- 1. The calibration interval of the above test instruments is 12/ 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2. The test was performed in 3m Chamber.
- 3. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

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Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: +86 (0557) 368 1008



#### 3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) /
  1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test.
  The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

#### NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit.
- 5. All modes of operation were investigated and the worst-case emissions are reported.

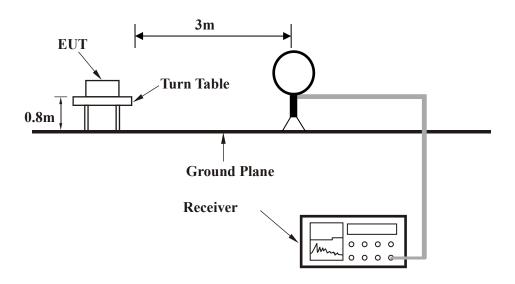
#### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

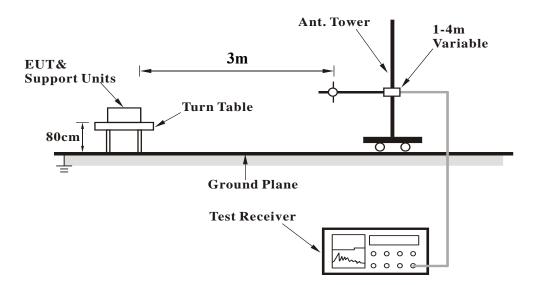


# 3.2.5 TEST SETUP

# <Frequency Range 9KHz~30MHz >

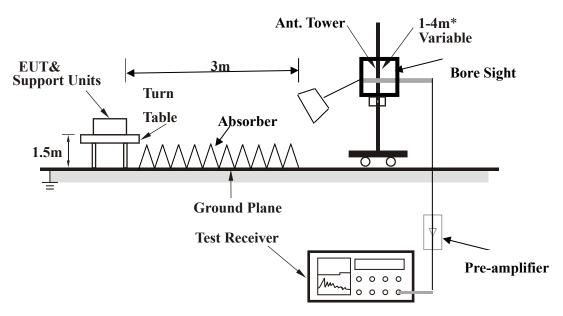


# < Frequency Range 30MHz~1GHz >





#### <Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

# 3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



# 3.2.7 TEST RESULTS

**NOTE**: The  $9K\sim30MHz$  amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

#### **BELOW 1GHz WORST-CASE DATA**

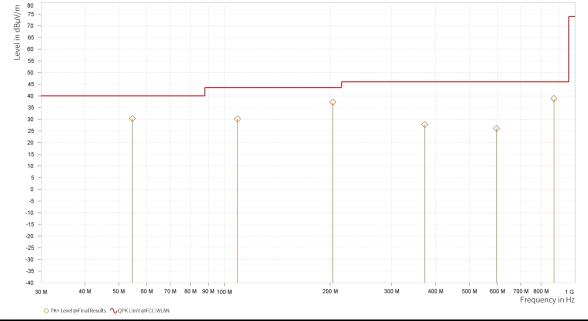
|                 | BT_π       | /4-DQPSK          |                 |
|-----------------|------------|-------------------|-----------------|
| CHANNEL         | Channel 39 | DETECTOR FUNCTION | Oursi Dask (OD) |
| FREQUENCY RANGE |            | DETECTOR FUNCTION | Quasi-Peak (QP) |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+: QPK<br>Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|----|--------------------|-----------------------|-------------------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 1  | 54.590             | 30.26                 | 40.00                         | 9.74                  | -12.55             | Н            | 1.8              | 2.00                     |
| 1  | 109.055            | 30.11                 | 43.50                         | 13.39                 | -13.66             | Н            | 231.5            | 2.00                     |
| 1  | 203.873            | 37.22                 | 43.50                         | 6.28                  | -13.10             | Н            | 128.6            | 1.00                     |
| 1  | 372.750            | 27.74                 | 46.00                         | 18.26                 | -10.46             | Н            | 358.3            | 1.00                     |
| 1  | 597.014            | 26.06                 | 46.00                         | 19.94                 | -6.31              | Н            | 355              | 2.00                     |
| 1  | 870.117            | 38.85                 | 46.00                         | 7.15                  | -2.12              | Н            | 358.3            | 1.00                     |

#### **REMARKS:**

- Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission level.





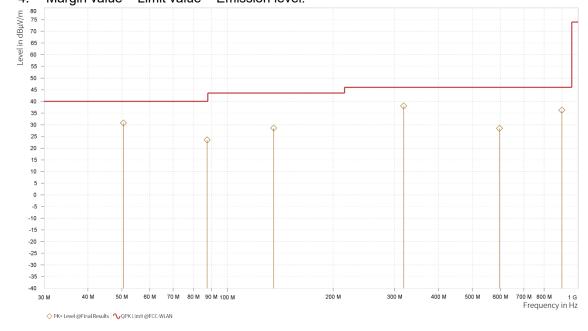
| CHANNEL         | Channel 39 | DETECTOR FUNCTION | Oursi Bask (OD) |
|-----------------|------------|-------------------|-----------------|
| FREQUENCY RANGE |            | DETECTOR FUNCTION | Quasi-Peak (QP) |

#### **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| Rg | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+: QPK<br>Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|----|--------------------|-----------------------|-------------------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 1  | 50.516             | 30.75                 | 40.00                         | 9.25                  | -12.06             | V            | 1.7              | 2.00                     |
| 1  | 87.521             | 23.47                 | 40.00                         | 16.53                 | -16.20             | V            | 359.1            | 1.00                     |
| 1  | 135.488            | 28.60                 | 43.50                         | 14.90                 | -17.12             | V            | 5                | 1.00                     |
| 1  | 318.139            | 38.04                 | 46.00                         | 7.96                  | -10.69             | V            | 1                | 1.00                     |
| 1  | 596.917            | 28.45                 | 46.00                         | 17.55                 | -6.31              | V            | 128.6            | 1.00                     |
| 1  | 898.441            | 36.20                 | 46.00                         | 9.80                  | -1.09              | V            | 358.4            | 1.00                     |

#### **REMARKS:**

- 1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission level.

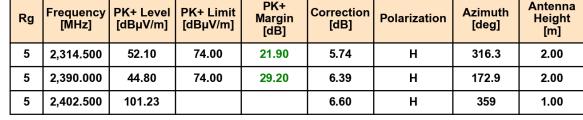


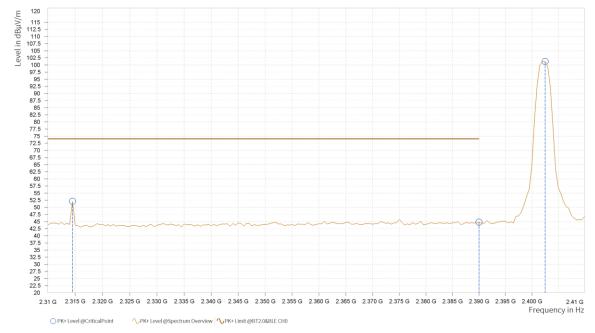


#### **ABOVE 1GHz WORST-CASE DATA**

**Note:** All other emissions that greater than 20dB below the limit were not recorded.

|   |      |                    |                       |                       | ВТ                  | _GF | SK                 |                     |     |                  |                          |  |
|---|------|--------------------|-----------------------|-----------------------|---------------------|-----|--------------------|---------------------|-----|------------------|--------------------------|--|
| C | INAH | NEL                | TX C                  | hannel 0              |                     | DE  | TECTOR             |                     | Pea | ık (PK)          |                          |  |
| F | REQU | JENCY RAI          | NGE 1GHz              | z ~ 25GHz             |                     | FU  | NCTION             |                     | Ave | rage (AV)        |                          |  |
|   |      | Al                 | NTENNA P              | OLARITY 8             | & TEST              | DIS | STANCE: H          | ORIZON <sup>*</sup> | TAL | AT 3 M           |                          |  |
|   | Rg   | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Marg<br>[dB] | in  | Correction<br>[dB] | Polarizat           | ion | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |  |







| Rg   | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dΒμV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|--|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5  | 2,383.000          | 30.58                 | 54.00                 | 23.42                 | 6.27               | Н            | 359              | 2.00                     |
| 5  | 2,390.000          | 30.69                 | 54.00                 | 23.31                 | 6.39               | Н            | 359              | 2.00                     |
| 5  | 2,402.000          | 89.63                 |                       |                       | 6.59               | Н            | 355.8            | 1.00                     |
| 120<br>1120<br>1112.5<br>1112.5<br>1107.5<br>100.5<br>100.5<br>100.9<br>97.5<br>99.5<br>80<br>80.77.5<br>72.5<br>72.5<br>52.5<br>40.5<br>47.5<br>35.5<br>40.5<br>47.5<br>52.5<br>52.5<br>52.5<br>52.5<br>52.5<br>52.5<br>52.5<br>5 |                    |                       |                       |                       |                    | φ            |                  |                          |



| Rg  | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5   | 2,369.000          | 45.84                 | 74.00                 | 28.16                 | 6.04               | V            | 0.9              | 2.00                     |
| 5   | 2,390.000          | 45.12                 | 74.00                 | 28.88                 | 6.39               | V            | 91.6             | 1.00                     |
| 5   | 2,402.000          | 100.55                |                       |                       | 6.59               | V            | 238.6            | 1.00                     |
| 120<br>1112.5<br>1112.5<br>1107.5<br>107.5<br>108.5<br>109.7<br>102.5<br>100.9<br>97.5<br>97.5<br>98.5<br>82.5<br>99.5<br>82.5<br>99.5<br>82.5<br>99.5<br>82.5<br>99.5<br>99.5<br>99.5<br>99.5<br>99.5<br>99.5<br>99.5<br>9 |                    |                       |                       |                       |                    |              |                  |                          |



| Rg  | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dΒμV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5   | 2,384.500          | 30.69                 | 54.00                 | 23.31                 | 6.29               | V            | 95.2             | 1.00                     |
| 5   | 2,390.000          | 30.65                 | 54.00                 | 23.35                 | 6.39               | V            | 95.2             | 1.00                     |
| 5   | 2,402.000          | 83.25                 |                       |                       | 6.59               | V            | 241              | 1.00                     |
| 120 112.5 12.5 12.5 12.5 12.5 12.5 12.5 12. |                    |                       |                       |                       |                    | Φ            |                  |                          |

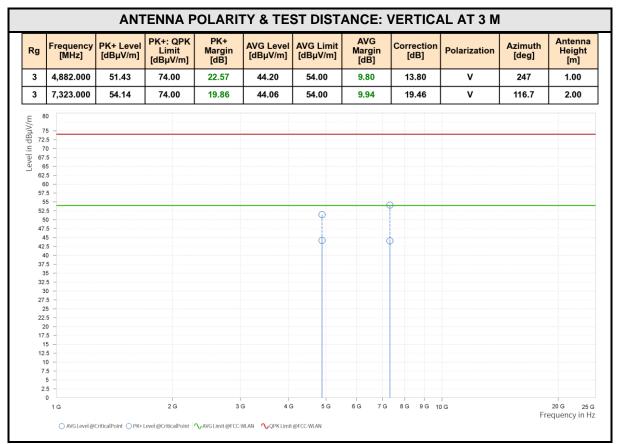
# **REMARKS:**

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2402MHz: Fundamental frequency.



| IAH   | NNEL  |                       | TX Ch                         | annel 39              | 9                     | DETEC                 | TOR                   |                 | Peak (PK     | <b>(</b> )       |                          |  |  |
|---|---|-----------------------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|--------------|------------------|--------------------------|--|--|
| REC   | QUENCY  | RANGE                 | 1GHz                          | ~ 25GH                | Z                     | FUNCT                 | ION                   |                 | Average      | (AV)             |                          |  |  |
|   | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M  Property PK+ Level PK+: QPK PK+ Margin AVG Level AVG Limit Avg Correction Relativation Azimuth Height Height |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| Rg  | Frequency<br>[MHz]  | PK+ Level<br>[dBµV/m] | PK+: QPK<br>Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBμV/m] | AVG<br>Margin<br>[dB] | Correction [dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |  |  |
| 3   | 4,882.000   | 49.48                 | 74.00                         | 24.52                 | 41.74                 | 54.00                 | 12.26                 | 13.80           | Н            | 359              | 1.00                     |  |  |
| 3   | 7,323.000   | 54.47                 | 74.00                         | 19.53                 | 43.77                 | 54.00                 | 10.23                 | 19.46           | н            | 0.9              | 2.00                     |  |  |
| _ 8   | 10  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 5   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 듩 7   |   |                       |                               |                       |                       | ······                |                       |                 |              |                  |                          |  |  |
| 원 72.   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| <u>-</u> 7  | 0   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| P 67.   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 9 6<br>62.  |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 6   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 57.   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
|   | i5 -  |                       |                               |                       |                       |                       |                       | 3               |              |                  |                          |  |  |
| 52.   | .5 -  |                       |                               |                       |                       |                       |                       | Ĭ               |              |                  |                          |  |  |
| 5   | io -  |                       |                               |                       |                       | 0                     |                       |                 |              |                  |                          |  |  |
| 47.   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
|   | 5   |                       |                               |                       |                       |                       |                       | ф               |              |                  |                          |  |  |
| 42.   |   |                       |                               |                       |                       | Ф                     |                       | Ť ·             |              |                  |                          |  |  |
|   | 0 -   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 37.   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
|   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
|   | 10  |                       |                               |                       |                       |                       |                       | ļ               |              |                  |                          |  |  |
| 32.   |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.   | .5 -  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3  |   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3<br>27.                                     | .5 —  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3<br>27.<br>2<br>22.<br>2                    | .5 –<br>.5 –  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3<br>27.<br>2<br>22.<br>217.                 | .5 –<br>.00 –<br>.5 –   |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3<br>27.<br>2<br>22.<br>2<br>17.             | .5  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3<br>27.<br>2<br>22.<br>2<br>17.<br>1        | 25 —  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3<br>27.<br>2<br>22.<br>2<br>17.<br>1<br>12. | 25  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>3<br>27.<br>2<br>22.<br>17.<br>1<br>12.      | 25  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>327.<br>22.<br>22.<br>17.<br>1 12.<br>1 7.   | 25  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |
| 32.<br>327.<br>22.<br>22.<br>17.<br>1 12.<br>1 7.   | 25  |                       |                               |                       |                       |                       |                       |                 |              |                  |                          |  |  |





#### **REMARKS:**

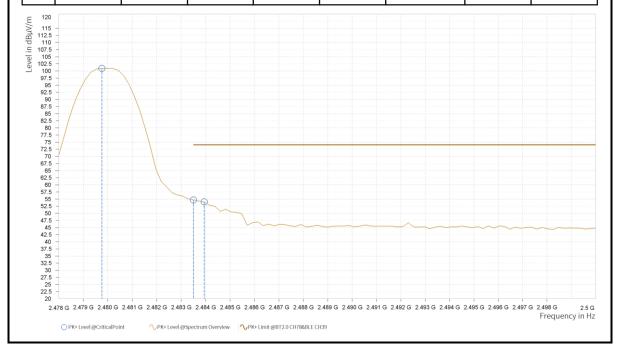
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2402MHz: Fundamental frequency.



| CHANNEL         | TX Channel 78 | DETECTOR | Peak (PK)    |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 25GHz  | FUNCTION | Average (AV) |

# ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|----|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6  | 2,479.760          | 100.91                |                       |                       | 7.24               | Н            | 359.1            | 1.00                     |
| 6  | 2,483.500          | 54.72                 | 74.00                 | 19.28                 | 7.18               | Н            | 0.9              | 2.00                     |
| 6  | 2,483.940          | 54.01                 | 74.00                 | 19.99                 | 7.17               | Н            | 0.9              | 2.00                     |





| ₹g  | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6   | 2,479.980          | 88.89                 |                       |                       | 7.23               | Н            | 249.4            | 1.00                     |
| 6   | 2,483.500          | 32.13                 | 54.00                 | 21.87                 | 7.18               | Н            | 359.1            | 1.00                     |
| 6   | 2,483.720          | 32.10                 | 54.00                 | 21.90                 | 7.17               | Н            | 359.1            | 1.00                     |
| 105 5 102.5 |                    |                       |                       |                       |                    |              |                  |                          |



◆PK+ Level @Spectrum Overview 

◆PK+ Limit @BT2.0 CH78&BLE CH39

| ₹g   | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|--|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6  | 2,479.760          | 95.89                 |                       |                       | 7.24               | V            | 242.2            | 1.00                     |
| 6  | 2,483.500          | 48.48                 | 74.00                 | 25.52                 | 7.18               | V            | 56.9             | 1.00                     |
| 6  | 2,496.920          | 46.95                 | 74.00                 | 27.05                 | 6.97               | V            | 188.4            | 1.00                     |
| 97.5<br>92.5<br>90.5<br>92.5<br>90.8<br>82.5<br>82.5<br>75.5<br>75.5<br>70.6<br>60.5<br>55.5<br>55.5<br>52.5<br>40.3<br>37.5<br>40.3<br>37.5<br>40.3<br>37.5<br>40.3<br>47.5<br>40.3<br>47.5<br>40.3<br>47.5<br>40.3<br>40.3<br>40.3<br>40.3<br>40.3<br>40.3<br>40.3<br>40.3 |                    |                       | <b>Q</b>              |                       |                    |              | - A              |                          |



| Rg   | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|--|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6  | 2,479.760          | 81.57                 |                       |                       | 7.24               | V            | 315.2            | 2.00                     |
| 6  | 2,483.500          | 31.57                 | 54.00                 | 22.43                 | 7.18               | V            | 196.7            | 1.00                     |
| 6  | 2,486.140          | 31.78                 | 54.00                 | 22.22                 | 7.14               | V            | 264.9            | 2.00                     |
| 120 112.5 115.5 110.5 11 |                    |                       | Φ                     | 9                     |                    |              |                  |                          |

# **REMARKS:**

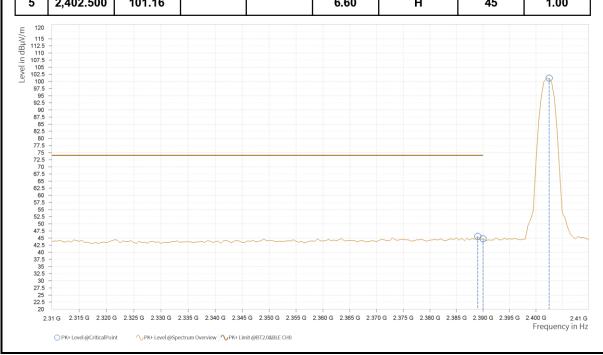
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2480MHz: Fundamental frequency.



| BT_π/4-DQPSK    |              |          |              |  |  |  |  |
|-----------------|--------------|----------|--------------|--|--|--|--|
| CHANNEL         | TX Channel 0 | DETECTOR | Peak (PK)    |  |  |  |  |
| FREQUENCY RANGE | 1GHz ~ 25GHz | FUNCTION | Average (AV) |  |  |  |  |

# ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|----|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5  | 2,389.000          | 45.56                 | 74.00                 | 28.44                 | 6.37               | Н            | 0.9              | 2.00                     |
| 5  | 2,390.000          | 44.77                 | 74.00                 | 29.23                 | 6.39               | Н            | 1                | 1.00                     |
| 5  | 2,402.500          | 101.16                |                       |                       | 6.60               | Н            | 45               | 1.00                     |





| 140   |                    |                       |                       |                       |                    |              |                  |                          |  |  |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|--|--|
| Rg  | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |  |  |
| 5   | 2,383.000          | 30.63                 | 54.00                 | 23.37                 | 6.27               | Н            | 1                | 2.00                     |  |  |
| 5   | 2,390.000          | 30.74                 | 54.00                 | 23.26                 | 6.39               | н            | 354.9            | 2.00                     |  |  |
| 5   | 2,402.000          | 85.35                 |                       |                       | 6.59               | н            | 1.8              | 2.00                     |  |  |
| 120<br>115<br>112.5<br>110<br>107.5<br>105<br>102.5 |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 115   |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 110   |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 107.5   | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 105   | +                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 102.5<br>100  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 97.5  | _                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 95  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 92.5  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 90<br>87.5  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 87.5  |                    |                       |                       |                       |                    |              |                  | G                        |  |  |
| 82.5  | _                  |                       |                       |                       |                    |              |                  | <b>****</b>              |  |  |
| 80  | +                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 77.5  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 75<br>72.5  | 1                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 72.5  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 67.5  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 65  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 62.5<br>60  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 57.5  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 55  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 52.5  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 50  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 47.5  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 45<br>42.5  |                    |                       |                       |                       |                    |              |                  |                          |  |  |
| 40  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 37.5  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 35  | +                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 32.5<br>30  | -                  |                       |                       |                       |                    |              | 0                |                          |  |  |
| 27.5  |                    |                       |                       |                       |                    |              | Ĭ.               |                          |  |  |
| 25  | 4                  |                       |                       |                       |                    |              |                  |                          |  |  |
| 22.5  | -                  |                       |                       |                       |                    |              |                  |                          |  |  |

2.41 G Frequency in Hz



|   |                    | ANTENNA               | POLARITY              | & TEST D              | DISTANCE:          | VERTICAL A   | T 3 M            |                          |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| ₹g  | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
| 5   | 2,371.000          | 45.66                 | 74.00                 | 28.34                 | 6.06               | ٧            | 211.1            | 1.00                     |
| 5   | 2,390.000          | 44.83                 | 74.00                 | 29.17                 | 6.39               | V            | 13.5             | 2.00                     |
| 5   | 2,402.500          | 101.07                |                       |                       | 6.60               | V            | 260.1            | 1.00                     |
| 100 -<br>97.5 -<br>95 -<br>92.5 -<br>90 -<br>87.5 -<br>85 -<br>82.5 -<br>80 -<br>77.5 -<br>72.5 - |                    |                       |                       |                       |                    |              |                  |                          |
| 70 —<br>67.5 —<br>65 —<br>62.5 —<br>60 —<br>57.5 —<br>55 —<br>52.5 —                              |                    |                       |                       |                       |                    |              |                  |                          |

231 G 2.315 G 2.325 G 2.325 G 2.330 G 2.335 G 2.340 G 2.345 G 2.350 G 2.355 G 2.360 G 2.365 G 2.375 G 2.385 G 2.386 G 2.395 G 2.395 G 2.395 G 2.41 G Frequency in Hz



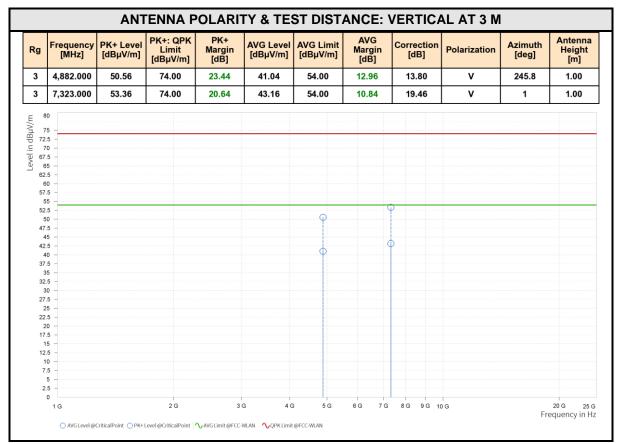
| Rg   | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|--|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5  | 2,384.500          | 30.74                 | 54.00                 | 23.26                 | 6.29               | V            | 267.2            | 2.00                     |
| 5  | 2,390.000          | 30.74                 | 54.00 23.2            | 23.26 6.39            | V                  | 94.1         | 1.00             |                          |
| 5  | 2,402.000          | 78.68                 |                       |                       | 6.59               | V            | 359              | 1.00                     |
| 120<br>1112.5<br>1107.5<br>107.5<br>100.5<br>100.5<br>95.5<br>92.5<br>92.5<br>92.5<br>92.5<br>92.5<br>92.5<br>92 |                    |                       |                       |                       |                    |              |                  |                          |

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2402MHz: Fundamental frequency.



| HAN   | INEL                                  |                       | TX Ch                         | annel 39              | 9                     | DETEC                 |                       |                    | Peak (PK     | )                |                          |
|---|---------------------------------------|-----------------------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| REC   | UENCY                                 | RANGE                 | 1GHz                          | ~ 25GH                | z                     | FUNCT                 | ION                   |                    | Average (AV) |                  |                          |
|   |                                       | ANTE                  | NNA PO                        | LARIT                 | / & TEST              | DISTAI                | NCE: H                | ORIZON             | TAL AT 3     | M                |                          |
| Rg  | Frequency<br>[MHz]                    | PK+ Level<br>[dBµV/m] | PK+: QPK<br>Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
| 3   | 4,882.000                             | 49.49                 | 74.00                         | 24.51                 | 39.07                 | 54.00                 | 14.93                 | 13.80              | н            | 0.9              | 2.00                     |
| 3   | 7,323.000                             | 54.34                 | 74.00                         | 19.66                 | 44.04                 | 54.00                 | 9.96                  | 19.46              | н            | 1                | 1.00                     |
| E/N <sup>†</sup> 89 in Jana 1 62. 66 57. 5 52. 66 57. 4 42. 44. 37. 2 2 22. 2 22. 17. 1 12. 11. 7. 2. 2 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |                       |                               |                       |                       | Φ                     |                       | ф<br>ф             |              |                  |                          |
|   | 1 G                                   |                       | 2 G                           |                       | G 40                  | 5 G                   | 6G 7G                 | 8G 9G 1            | 1            |                  | 20 G 25                  |





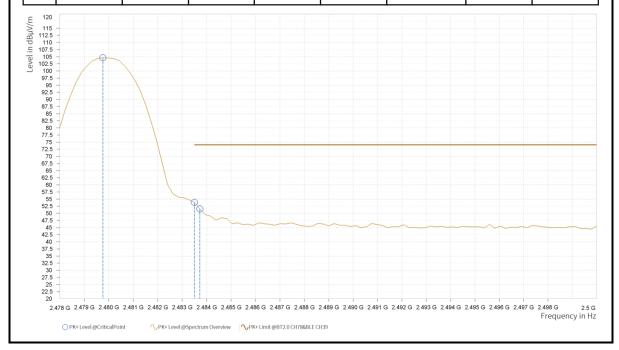
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2441MHz: Fundamental frequency.



| CHANNEL         | TX Channel 78 | DETECTOR | Peak (PK)    |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 25GHz  | FUNCTION | Average (AV) |

# ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|----|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6  | 2,479.760          | 104.64                |                       |                       | 7.24               | Н            | 356.1            | 2.00                     |
| 6  | 2,483.500          | 53.83                 | 74.00                 | 20.17                 | 7.18               | Н            | 0.9              | 2.00                     |
| 6  | 2,483.720          | 51.58                 | 74.00                 | 22.42                 | 7.17               | Н            | 12.8             | 2.00                     |





√AVG Level @Spectrum Overview 

√AVG Limit @BT2.0 CH78&BLE CH39

| ₹g                                      | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6                                       | 2,479.980          | 85.55                 |                       |                       | 7.23               | Н            | 1                | 1.00                     |
| 6                                       | 2,483.500          | 31.92                 | 54.00                 | 22.08                 | 7.18               | Н            | 359.1            | 1.00                     |
| 6                                       | 2,483.720          | 31.91                 | 54.00                 | 22.09                 | 7.17               | Н            | 359.1            | 1.00                     |
| 105 100 100 100 100 100 100 100 100 100 |                    |                       |                       |                       |                    |              |                  |                          |

O AVG Level @CriticalPoint



◆PK+ Level @Spectrum Overview 

◆PK+ Limit @BT2.0 CH78&BLE CH39

| Rg  | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m]   | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|---|--------------------|-----------------------|---|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6   | 2,479.760          | 93.79                 |   |                       | 7.24               | V            | 261.3            | 2.00                     |
| 6   | 2,483.500          | 48.15                 | 74.00   | 25.85                 | 7.18               | V            | 191.9            | 2.00                     |
| 6   | 2,483.720          | 48.42                 | 74.00   | 25.58                 | 7.17               | V            | 191.9            | 2.00                     |
| 120<br>1112.5<br>1107.5<br>107.5<br>107.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5<br>102.5 |                    |                       | \$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitt{\$\text{\$\}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} |                       |                    |              |                  |                          |



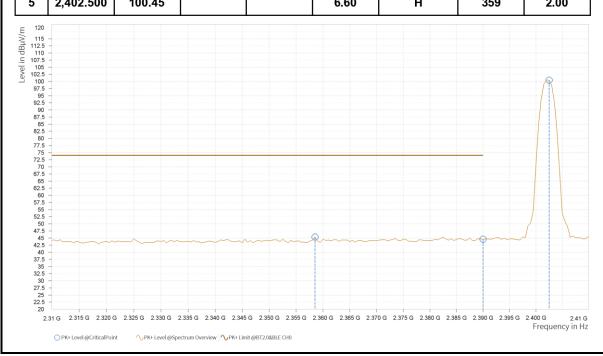
| Rg   | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|--|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6  | 2,479.760          | 79.52                 |                       |                       | 7.24               | V            | 302              | 1.00                     |
| 6  | 2,483.500          | 31.47                 | 54.00                 | 22.53                 | 7.18               | V            | 197.9            | 1.00                     |
| 6  | 2,489.880          | 31.81                 | 54.00                 | 22.19                 | 7.08               | V            | 262.4            | 2.00                     |
| 1105 1105 1107.5 |                    |                       |                       |                       | <b>P</b>           |              |                  |                          |

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2480MHz: Fundamental frequency.



|                 | ВТ  | _8DPSK   |              |  |  |  |  |  |
|-----------------|---|----------|--------------|--|--|--|--|--|
| CHANNEL         | TX Channel 0  | DETECTOR | Peak (PK)    |  |  |  |  |  |
| FREQUENCY RANGE | 1GHz ~ 25GHz  | FUNCTION | Average (AV) |  |  |  |  |  |
| ANTEN           | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |          |              |  |  |  |  |  |

| Rg | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|----|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5  | 2,358.500          | 45.37                 | 74.00                 | 28.63                 | 5.98               | Н            | 66.5             | 2.00                     |
| 5  | 2,390.000          | 44.57                 | 74.00                 | 29.43                 | 6.39               | Н            | 359              | 2.00                     |
| 5  | 2,402.500          | 100.45                |                       |                       | 6.60               | Н            | 359              | 2.00                     |





| Rg  | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5   | 2,382.000          | 30.62                 | 54.00                 | 23.38                 | 6.25               | Н            | 64               | 2.00                     |
| 5   | 2,390.000          | 30.71                 | 54.00                 | 23.29                 | 6.39               | Н            | 64               | 2.00                     |
| 5   | 2,402.000          | 85.11                 |                       |                       | 6.59               | Н            | 64               | 2.00                     |
| 120<br>115<br>112.5<br>110<br>107.5<br>102.5<br>100<br>97.5<br>92.5<br>90<br>87.5<br>85<br>82.5<br>85<br>87.5<br>75<br>77.5<br>76.5<br>67.5<br>62.5 |                    |                       |                       |                       |                    |              |                  | 9                        |
| 60<br>57.5<br>55<br>52.5<br>50<br>47.5<br>42.5<br>40<br>37.5<br>35<br>32.5<br>30<br>27.5<br>25  |                    |                       |                       |                       |                    | P            | Ŷ                |                          |

e.400 G 2.41 G Frequency in Hz



◆PK+ Level @Spectrum Overview 
◆PK+ Limit @BT2.0&BLE CH0

| ₹g                                       | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|--|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5  | 2,387.000          | 45.50                 | 74.00                 | 28.50                 | 6.34               | V            | 359              | 1.00                     |
| 5  | 2,390.000          | 44.74                 | 74.00                 | 29.26                 | 6.39               | V            | 359              | 1.00                     |
| 5  | 2,402.000          | 93.76                 |                       |                       | 6.59               | V            | 192              | 1.00                     |
| 115 112.5 112.5 112.5 112.5 12.5 12.5 12 |                    |                       |                       |                       |                    |              | 4                |                          |



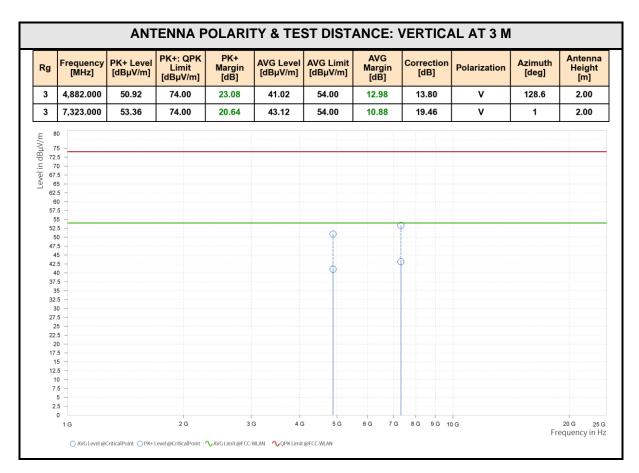
| Rg  | Frequency<br>[MHz] | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|---|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 5   | 2,376.000          | 30.80                 | 54.00                 | 23.20<br>23.50        | 6.14               | V            | 262.5            | 2.00<br>2.00             |
| 5   | 2,390.000          | 30.50                 | 54.00                 |                       | 6.39               | V            | 314              |                          |
| 5   | 2,402.500          | 79.80                 |                       |                       | 6.60               | V            | 233.8            | 1.00                     |
| 120<br>112.5<br>1107.5<br>107.5<br>107.5<br>100.5<br>100.5<br>92.5<br>92.5<br>80.8<br>87.5<br>80.7<br>77.5<br>70.5<br>77.5<br>77.5<br>77.5<br>77.5<br>77.5<br>7 |                    |                       |                       |                       |                    | Φ            |                  |                          |

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2402MHz: Fundamental frequency.



| HANNEL          |                  |                          | TX Ch                         | TX Channel 39  1GHz ~ 25GHz |                       |                       | DETECTOR<br>FUNCTION  |                 |              | Peak (PK)<br>Average (AV) |                          |  |
|-----------------|------------------|--------------------------|-------------------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------|--------------|---------------------------|--------------------------|--|
| REQUENCY RANGE  |                  | E 1GHz                   |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
|                 |                  | ANTE                     | NNA PC                        | LARIT                       | / & TEST              | DISTA                 | NCE: H                | ORIZON          | TAL AT 3     | М                         |                          |  |
| Rg              | Frequer<br>[MHz] | cy PK+ Level<br>[dBμV/m] | PK+: QPK<br>Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB]       | AVG Level<br>[dBµV/m] | AVG Limit<br>[dBµV/m] | AVG<br>Margin<br>[dB] | Correction [dB] | Polarization | Azimuth<br>[deg]          | Antenna<br>Height<br>[m] |  |
| 3               | 4,882.0          | 00 50.92                 | 74.00                         | 23.08                       | 41.02                 | 54.00                 | 12.98                 | 13.80           | v            | 128.6                     | 2.00                     |  |
| 3               | 7,323.0          | 00 53.36                 | 74.00                         | 20.64                       | 43.12                 | 54.00                 | 10.88                 | 19.46           | v            | 1                         | 2.00                     |  |
|                 | ,                |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| E 80            | 0                |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| Ž 7             | 5 -              |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| Level in dBµV/m |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| .⊑ 70           | ) -              |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| ₩ 67.           |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
|                 |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 62.<br>61       |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 57.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 5               |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 52.             | 5 -              |                          |                               |                             |                       |                       |                       | φ               |              |                           |                          |  |
| 50              | o -              |                          |                               |                             |                       | Ψ                     |                       | +               |              |                           |                          |  |
| 47.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 45              |                  |                          |                               |                             |                       |                       |                       | h               |              |                           |                          |  |
| 42.<br>41       |                  |                          |                               |                             |                       | Ф                     |                       |                 |              |                           |                          |  |
| 37.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 3               |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 32.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 30              |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 27.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 2               |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 22.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 17.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 15              |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 12.             |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 10              | ) -              |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 7.              |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
|                 |                  |                          |                               |                             |                       |                       |                       | ·               |              |                           |                          |  |
| 2.              |                  |                          |                               |                             |                       |                       |                       |                 |              |                           |                          |  |
| 1               | 1 G              |                          | 2 G                           | 3                           | G 40                  | 3 5 G                 | 6G 7G                 | 8G 9G 1         | 0.6          |                           | 20 G 25 G                |  |
|                 | 1 0              |                          | 2 0                           | 3                           | - 40                  |                       | 30 /6                 | 00 00 1         | v G          | Fr                        | 25 25 0                  |  |





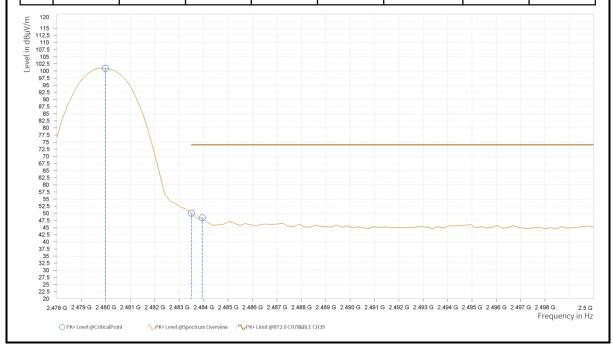
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2. Margin value = Limit value Emission level.
- 3. 2402MHz: Fundamental frequency.



| CHANNEL         | TX Channel 78 | DETECTOR | Peak (PK)    |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 25GHz  | FUNCTION | Average (AV) |

# ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency<br>[MHz] | PK+ Level<br>[dBµV/m] | PK+ Limit<br>[dBµV/m] | PK+<br>Margin<br>[dB] | Correction<br>[dB] | Polarization | Azimuth<br>[deg] | Antenna<br>Height<br>[m] |
|----|--------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------|------------------|--------------------------|
| 6  | 2,479.980          | 100.97                |                       |                       | 7.23               | Н            | 359.1            | 1.00                     |
| 6  | 2,483.500          | 50.05                 | 74.00                 | 23.95                 | 7.18               | Н            | 1                | 1.00                     |
| 6  | 2,483.940          | 48.43                 | 74.00                 | 25.57                 | 7.17               | Н            | 359.1            | 1.00                     |





√AVG Level @Spectrum Overview 

√AVG Limit @BT2.0 CH78&BLE CH39

| - I                                      | Frequency | AVG Level | AVG Limit   | AVG            | Correction |              | Azimuth | Antenna       |
|--|-----------|-----------|-------------|----------------|------------|--------------|---------|---------------|
| g  ˈ                                     | [MHz]     | [dBµV/m]  | [dBµV/m]    | Margin<br>[dB] | [dB]       | Polarization | [deg]   | Height<br>[m] |
| ,  | 2,479.980 | 85.70     |             |                | 7.23       | Н            | 312.8   | 2.00          |
| ,  | 2,483.500 | 31.91     | 54.00       | 22.09          | 7.18       | Н            | 359.1   | 1.00          |
| ,  | 2,483.720 | 31.88     | 54.00       | 22.12          | 7.17       | Н            | 1       | 1.00          |
| 120                                      |           |           |             |                |            |              |         |               |
| 115 -<br>12.5 -<br>110 -                 |           |           |             |                |            |              |         |               |
| 07.5 -<br>105 -<br>02.5 -                |           |           |             |                |            |              |         |               |
| 100 -<br>97.5 -                          |           |           |             |                |            |              |         |               |
| 95 -<br>92.5 -<br>90 -                   |           |           |             |                |            |              |         |               |
| 87.5 -<br>85 -<br>82.5 -                 | P         |           |             |                |            |              |         |               |
| 80 –<br>77.5 –                           |           |           |             |                |            |              |         |               |
| 75 –<br>72.5 –                           |           |           |             |                |            |              |         |               |
| 70 –<br>67.5 –<br>65 –                   |           |           |             |                |            |              |         |               |
| 62.5 -<br>60 -                           | /         |           |             |                |            |              |         |               |
| 57.5 –<br>55 –<br>52.5 –                 |           | \.        |             |                |            |              |         |               |
| 50 –<br>47.5 –                           |           |           |             |                |            |              |         |               |
| 42.5 -                                   |           |           |             |                |            |              |         |               |
| 37.5 -<br>35 -                           |           |           |             |                |            |              |         |               |
| 32.5 -<br>30 -<br>27.5 -                 |           |           | 99          |                |            |              |         |               |
| 40 -<br>37.5 -<br>35 -<br>32.5 -<br>30 - |           |           | <del></del> |                |            |              |         |               |

O AVG Level @CriticalPoint

2.498 G 2.5 G Frequency in Hz