

Test Report No.:  
**FCC2022-0030-RF1**

## **RF Test Report**

**EUT** : SPARK LXi2 Datalogger  
**MODEL** : PS-3600B  
**BRAND NAME** : N/A  
**APPLICANT** : Chengdu Vantron Technology Co., Ltd.  
**Classification Of Test** : N/A

**CVC Testing Technology Co., Ltd.**



|                                                                                                                        |                                                                                              |                                                                                       |                       |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------|
| <b>Client</b>                                                                                                          |                                                                                              | Name : Chengdu Vantron Technology Co., Ltd.                                           |                       |
|                                                                                                                        |                                                                                              | Address : No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China               |                       |
| <b>Manufacturer</b>                                                                                                    |                                                                                              | Name : Chengdu Vantron Technology Co., Ltd.                                           |                       |
|                                                                                                                        |                                                                                              | Address : No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China               |                       |
| <b>Equipment Under Test</b>                                                                                            |                                                                                              | Name : SPARK LXi2 Datalogger                                                          |                       |
|                                                                                                                        |                                                                                              | Model/Type: PS-3600B                                                                  |                       |
|                                                                                                                        |                                                                                              | Trade mark : N/A                                                                      |                       |
|                                                                                                                        |                                                                                              | SerialNO.:N/A                                                                         |                       |
|                                                                                                                        |                                                                                              | Sampe NO.:3-1                                                                         |                       |
| Date of Receipt.                                                                                                       | 2022.05.17                                                                                   | Date of Testing                                                                       | 2022.05.17~2022.06.23 |
| <b>Test Specification</b>                                                                                              |                                                                                              | <b>Test Result</b>                                                                    |                       |
| FCC Part 15, Subpart C, Section 15.247<br>Canada RSS-247 Issue 2 (2017-02)<br>Canada RSS-Gen Issue 5 (2019-03)         |                                                                                              | PASS                                                                                  |                       |
| <b>Evaluation of Test Result</b>                                                                                       | The equipment under test was found to comply with the requirements of the standards applied. |                                                                                       |                       |
|                                                                                                                        | <b>Issue Date: 2022.06.24</b>                                                                |                                                                                       |                       |
| Tested by:                                                                                                             | Reviewed by:                                                                                 | Approved by:                                                                          |                       |
|                                     |           |  |                       |
| Xu ZhenFei                                                                                                             | Liu YongHai                                                                                  | Chen HuaWen                                                                           |                       |
| Name      Signature                                                                                                    | Name      Signature                                                                          | Name      Signature                                                                   |                       |
| <b>Other Aspects: NONE.</b>                                                                                            |                                                                                              |                                                                                       |                       |
| Abbreviations:OK, Pass= passed      Fail = failed      N/A= not applicable      EUT= equipment, sample(s) under tested |                                                                                              |                                                                                       |                       |

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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## RELEASE CONTROL RECORD

| ISSUE NO.        | REASON FOR CHANGE | DATE ISSUED |
|------------------|-------------------|-------------|
| FCC2022-0030-RF1 | Original release  | 2022.06.24  |



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart C; RSS-247; RSS-Gen                 |                                  |        |                                |
|----------------------------------------------------------------------------|----------------------------------|--------|--------------------------------|
| FCC STANDARD SECTION                                                       | TEST TYPE AND LIMIT              | RESULT | REMARK                         |
| 15.207<br>RSS-Gen 8.8                                                      | AC Power Conducted Emission      | PASS   | Meet the requirement of limit  |
| RSS-Gen 6.7                                                                | Occupied Bandwidth Measurement   | PASS   | Report only                    |
| 15.247(a)(1)<br>RSS-247 5.1(d)                                             | Number of Hopping Frequency Used | PASS   | Meet the requirement of limit. |
| 15.247(a)(1)<br>RSS-247 5.1(b)                                             | Hopping Channel Separation       | PASS   | Meet the requirement of limit. |
| 15.247(a)(1)<br>RSS-247 5.1(d)                                             | Dwell Time of Each Channel       | PASS   | Meet the requirement of limit. |
| 15.247(a)(1)                                                               | 20dB EMISSION BANDWIDTH          | PASS   | Meet the requirement of limit. |
| 15.247(b)<br>RSS-247 5.4(b)                                                | MAXIMUM OUTPUT POWER             | PASS   | Meet the requirement of limit. |
| 15.247(d),<br>15.209,15.205<br>RSS-Gen 8.10 Table 7<br>RSS-Gen 8.9 Table 5 | Radiated Emissions               | PASS   | Meet the requirement of limit. |
| 15.247(d)<br>RSS-247 5.5                                                   | Out of band Emission Measurement | PASS   | Meet the requirement of limit. |
| 15.203<br>14.247(b)                                                        | Antenna Requirement              | PASS   | No antenna connector is used.  |



## 1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

| Test Equipment                  | Type/Mode                        | SERIAL NO.     | Equipment No. | Manufacturer | Cal. Due   |
|---------------------------------|----------------------------------|----------------|---------------|--------------|------------|
| WIFI & Bluetooth Test System 1  |                                  |                |               |              | /          |
| Communication Shielded Room 1   | 4m*3m*3m                         | CRTDSWKSR44301 | VGDS-0699     | CRT          | 2024/04/24 |
| Spectrum Analyzer               | FSV30                            | 104337         | DZ-000235     | R&S          | 2022/11/03 |
| Comprehensive Test Instrument   | CMW500                           | 137779         | DZ-000220     | R&S          | 2022/06/30 |
| Comprehensive Test Instrument   | CMW500                           | 169888         | DZ-000342     | R&S          | 2022/12/01 |
| Analog Signal Generator         | SMA100B                          | 103663         | DZ-000239-2   | R&S          | 2022/06/30 |
| Vector Signal Generator         | SMBV100B                         | 101757         | DZ-000239-1   | R&S          | 2022/06/30 |
| Programmable DC Power Supply    | E3642A                           | MY59108106     | DZ-000242-2   | KEYSIGHT     | 2022/08/05 |
| Radiation SpuriousTest System   |                                  |                |               |              | /          |
| 3m Semi-Anechoic Chamber        | FACT-4                           | ST08035        | WKNA-0024     | ETS          | 2024/12/12 |
| Spectrum Analyzer               | N9010B                           | MY57470323     | DZ-000174     | KEYSIGHT     | 2023/03/02 |
| EMI Test Receiver               | N9038A-508                       | MY532290079    | EM-000397     | Agilent      | 2023/03/02 |
| Broadband Antenna               | VULB 9163                        | 9163-530       | EM-000342     | SCHWARZBECK  | 2022/06/26 |
| Waveguide Horn Antenna          | HF906                            | 360306/008     | WKNA-0024-8   | R&S          | 2023/03/04 |
| Waveguide Horn Antenna          | BBHA9170                         | 00949          | DZ-000209-2   | SCHWARZBECK  | 2022/08/27 |
| Preamplifier                    | BBV 9721                         | 9721-050       | DZ-000209-1   | SCHWARZBECK  | 2022/06/30 |
| 5G Bandstop Filters             | WRCJV12-4900-5100-5900-6100-50EE | 1              | DZ-000186     | WI           | 2022/12/20 |
| Comprehensive tester            | CMW500                           | 159000         | DZ-000240-2   | R&S          | 2022/12/20 |
| Conducted emission              |                                  |                |               |              | /          |
| EMI Test Receiver               | ESCI                             | 100857         | WKNB-0081     | R&S          | 2022-12-08 |
| EMI Test Receiver               | ESR3                             | 102394         | VG DY-0705    | R&S          | 2023-03-04 |
| LISN                            | NSLK 8127                        | 8127644        | VG DY-0150    | SCHWARZBECK  | 2022-09-01 |
| LISN                            | NSLK 8129                        | 8129-268       | EM-000388     | SCHWARZBECK  | 2023-03-03 |
| Plus Limiter (#1)               | VTSD 9561 F-N                    | 00515          | VG DY-0808    | SCHWARZBECK  | 2023-03-04 |
| Impedance Stabilization Network | ISN T800                         | 27095          | WKNE-0195     | TESEQ        | 2022-09-01 |
| Voltage Probe                   | TK9420                           | 9420-499       | VG DY-0128    | SCHWARZBECK  | 2023-03-04 |
| Power Divider                   | 4901.17.B                        | 22643830       | DB-0016       | HUBER+SUHNER | 2023-09-01 |
| AudioSignalGenerator            | GAG-810                          | EK871591       | EM-000309     | GW           | 2022-12-08 |
| Shielding Room(#1)              | GP1A                             | 001            | WKNF-0001     | LEINING      | 2024-08-08 |



## 1.2 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:

| No. | ITEM                        | FREQUENCY     | UNCERTAINTY |
|-----|-----------------------------|---------------|-------------|
| 1   | Conducted Emissions         | 9kHz~30MHz    | ±2.66dB     |
| 2   | Radiated Spurious Emissions | 9KHz ~ 30MHz  | ±0.769dB    |
|     |                             | 30MHz ~ 1GMHz | ±0.877dB    |
|     |                             | 1GHz ~ 18GHz  | ±0.777dB    |
|     |                             | 18GHz ~ 40GHz | ±1.315dB    |

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

## 1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology Co., Ltd.

Address: No.3,TiantaiyiRoad,KaitaiAvenue,ScienceCity,Guangzhou,China

Post Code: 510663 Tel: 020-32293888

FAX: 020-32293889 E-mail: [office@cvc.org.cn](mailto:office@cvc.org.cn)



## 2 GENERAL INFORMATION

### 2.1 GENERAL PRODUCT INFORMATION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| PRODUCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SPARK LXi2 Datalogger                          |
| BRAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A                                            |
| MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PS-3600B                                       |
| ADDITIONAL MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N/A                                            |
| FCC ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2AAGEPASCO                                     |
| IC ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11152A-PASCO                                   |
| POWER SUPPLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DC 5V from Adapter or DC 3.8V from battery     |
| MODULATION TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GFSK, $\pi/4$ DQPSK, 8DPSK                     |
| OPERATING FREQUENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2402MHz~2480MHz                                |
| NUMBER OF CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 79                                             |
| PEAK OUTPUT POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9.12dBm (Max.Conducted)<br>10.16dBm (Max.EIRP) |
| ANTENNA TYPE (Remark 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PIFA Antenna, with 1.14dBi gain                |
| I/O PORTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to user's manual                         |
| CABLE SUPPLIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | USB line, 1 Meter, Shielded without ferrite    |
| <p>Remark:</p> <ol style="list-style-type: none"><li>1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.</li><li>2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.</li><li>3. EUT photo refer to the report (Report NO.: FCC2022-0030-E).</li><li>4. 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, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</li><li>5. The EUT have SISO function, provides 1 completed transmitter and 1 receiver.</li></ol> |                                                |



## 2.2 Description of Accessories

| Adapter    |                              |
|------------|------------------------------|
| BRAND      | N/A                          |
| Model No.: | SW1260502000UN               |
| Input:     | 100-240 V~50/60 Hz 0.4 A Max |
| Output:    | 5.0 V $\pm$ 2 A              |
| AC Cable:  | N/A                          |
| DC Cable:  | N/A                          |

## 2.3 OTHER INFORMATION

Operation frequency each of channel.

| Operation Frequency Each of Channel  |                |           |                |         |                |           |                |
|--------------------------------------|----------------|-----------|----------------|---------|----------------|-----------|----------------|
| For BT (GFSK, $\pi/4$ DQPSK, 8 DPSK) |                |           |                |         |                |           |                |
| CHANNEL                              | FREQ.<br>(MHz) | CHANNEL   | FREQ.<br>(MHz) | CHANNEL | FREQ.<br>(MHz) | CHANNEL   | FREQ.<br>(MHz) |
| <b>0</b>                             | <b>2402</b>    | 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           | <b>78</b> | <b>2480</b>    |
| 19                                   | 2421           | <b>39</b> | <b>2441</b>    | 59      | 2461           |           |                |

- The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.



## 2.4 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 xaxis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | APPLICABLE TEST ITEMS |        |     |      | DESCRIPTION |
|--------------------|-----------------------|--------|-----|------|-------------|
|                    | RSE<1G                | RSE≥1G | PLC | APCM |             |
| A                  | √                     | √      | √   | √    | BT LINK     |

Where **RSE<1G**: Radiated Emission below 1GHz.

**RSE≥1G**: Radiated Emission above 1GHz.

**PLC**: Power Line Conducted Emission.

**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.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|--------------------|----------------|-----------------------|-----------------|-------------|
| A                  | 0              | FHSS                  | GFSK            | DH5         |

### 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.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|--------------------|----------------|-----------------------|-----------------|-------------|
| A                  | 0, 39, 78      | FHSS                  | GFSK            | DH5         |
| A                  | 0, 39, 78      | FHSS                  | $\pi/4$ DQPSK   | 2DH5        |
| A                  | 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 types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | TESTED CONDITION |
|--------------------|------------------|
| -                  | BT Link          |

**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.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|--------------------|----------------|-----------------------|-----------------|-------------|
| A                  | 0, 39, 78      | FHSS                  | GFSK            | DH5         |
| A                  | 0, 39, 78      | FHSS                  | $\pi/4$ DQPSK   | 2DH5        |
| A                  | 0, 39, 78      | FHSS                  | 8DPSK           | 3DH5        |

**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | TEST VOLTAGE (SYSTEM) | TESTED BY  |
|---------------|--------------------------|-----------------------|------------|
| RSE<1G        | 24deg. C, 55%RH          | DC 5V from Adapter    | Liu ShiWei |
| RSE≥1G        | 24deg. C, 55%RH          | DC 5V from Adapter    | Liu ShiWei |
| PLC           | 24deg. C, 55%RH          | DC 5V from Adapter    | Liu ShiWei |
| APCM          | 25deg. C, 58%RH          | DC 5V from Adapter    | Liu ShiWei |



## 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

**FCC PART 15, Subpart C. Section 15.247**  
**KDB 558074 D01 15.247 Meas Guidance v05r02**  
**ANSI C63.10-2020**  
**Canada RSS-247 Issue 2 (2017-02)**  
**Canada RSS-Gen Issue 5 (2019-03)**

All test items have been performed and recorded as per the above standards

## 2.6 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.

During the tests:

| Support Equipment |             |                   |            |                      |                    |                |             |
|-------------------|-------------|-------------------|------------|----------------------|--------------------|----------------|-------------|
| NO                | Description | Brand             | Model No.  | Serial Number        | Supplied by        |                |             |
| 1                 | Laptop      | Lenovo            | V14        | PFNXB1628023         | Lab                |                |             |
|                   |             |                   |            |                      |                    |                |             |
| Support Cable     |             |                   |            |                      |                    |                |             |
| NO                | Description | Quantity (Number) | Length (m) | Detachable (Yes/ No) | Shielded (Yes/ No) | Cores (Number) | Supplied by |
| 1                 | N/A         | N/A               | N/A        | N/A                  | N/A                | N/A            | N/A         |
|                   |             |                   |            |                      |                    |                |             |

## 3 TEST TYPES AND RESULTS

### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 Limit

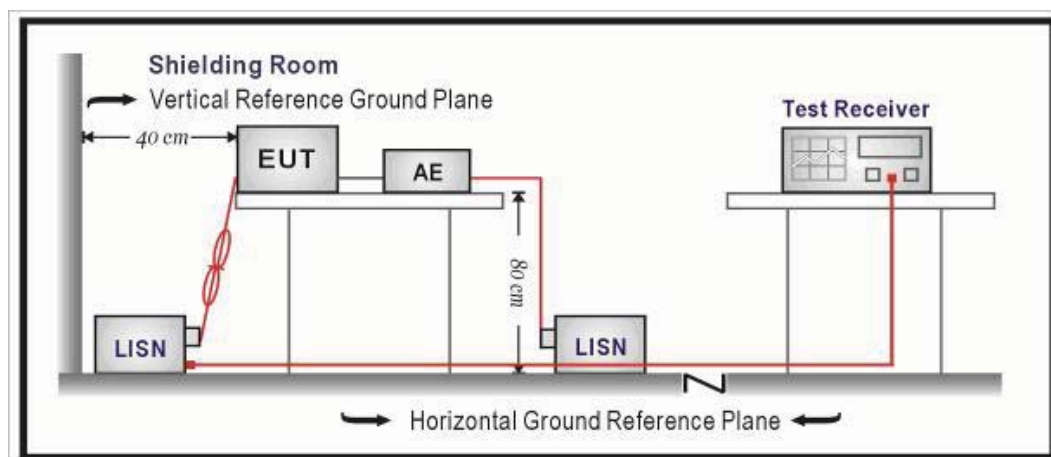
| Frequency<br>(MHz) | Conducted Limits(dB $\mu$ V) |           |
|--------------------|------------------------------|-----------|
|                    | Quasi-peak                   | Average   |
| 0.15 - 0.5         | 66 to 56 *                   | 56 to 46* |
| 0.5 - 5            | 56                           | 46        |
| 5 - 30             | 60                           | 50        |

NOTE: 1. The lower limit shall apply at the transition frequencies.  
NOTE: 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

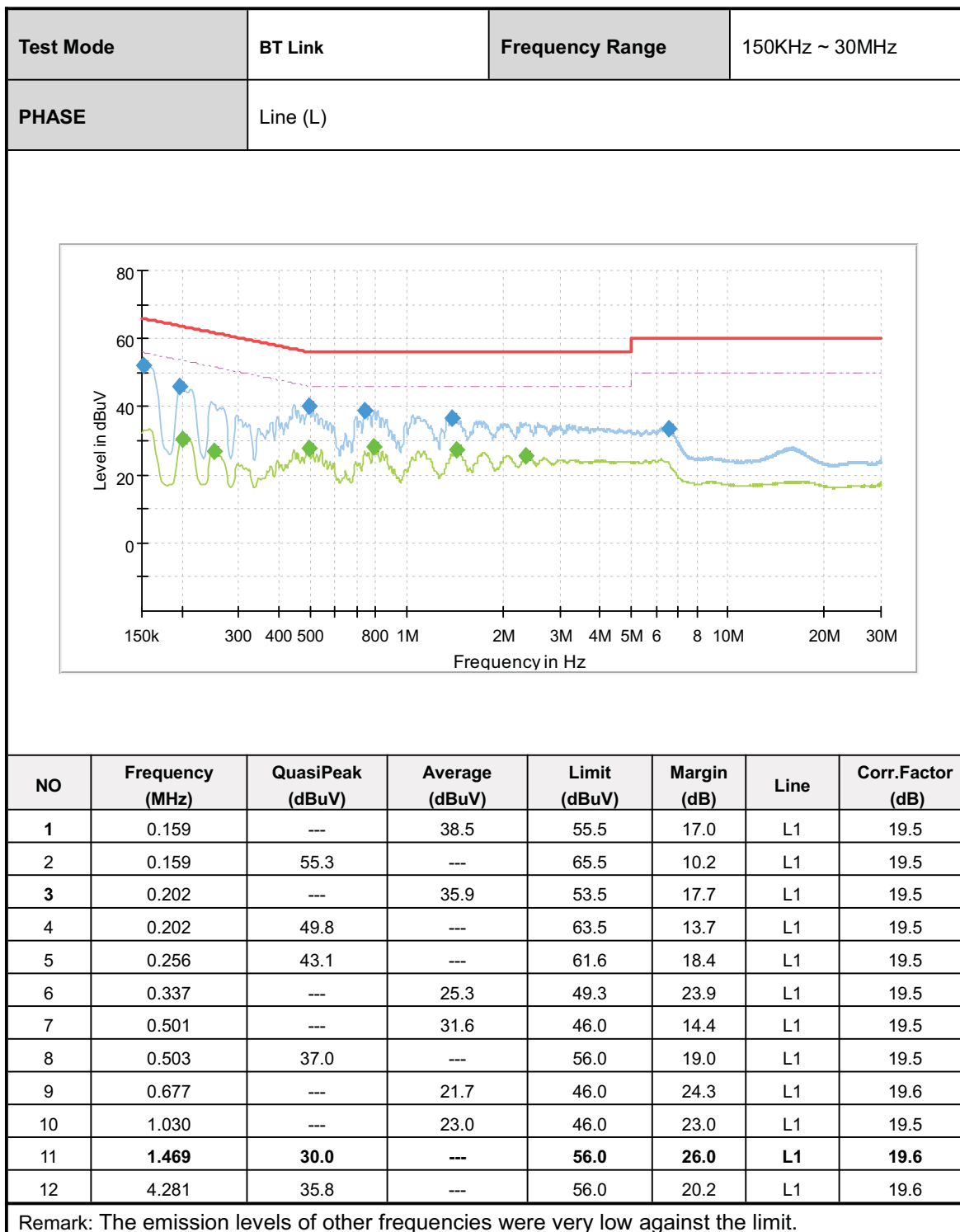
#### 3.1.2 Measurement procedure

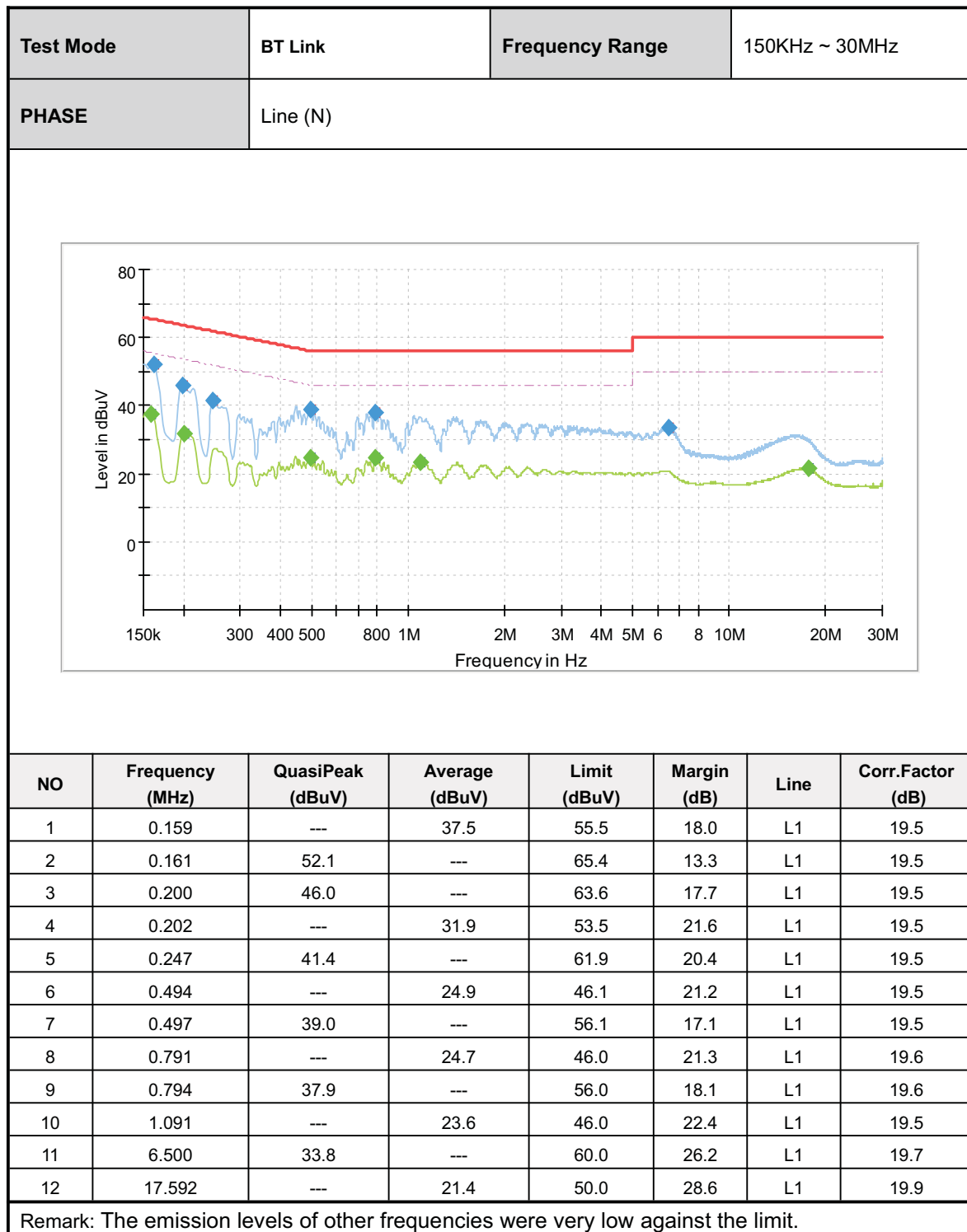
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The equipment under test shall be placed on a support of non-metallic material, the height of which shall be 1.5m above the ground,
- The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

#### 3.1.3 Test setup



## 3.1.4 Test results







## 3.2 RADIATED EMISSIONS

### 3.2.1 Limits (FCC)

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<br>(Microvolts/Meter) | MEASUREMENT DISTANCE<br>(Meters) |
|-------------------|--------------------------------------|----------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                          | 300                              |
| 0.490 ~ 1.705     | 24000/F(kHz)                         | 30                               |
| 1.705 ~ 30.0      | 30                                   | 30                               |
| 30 ~ 88           | 100                                  | 3                                |
| 88 ~ 216          | 150                                  | 3                                |
| 216 ~ 960         | 200                                  | 3                                |
| Above 960         | 500                                  | 3                                |

NOTE: 1. The lower limit shall apply at the transition frequencies.  
NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).  
NOTE: 3. 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 Limit (IC)

Radiated emissions which fall in the restricted bands, as defined in RSS-Gen Section 8.10, must also comply with the radiated emission limits specified in RSS-Gen Section 8.9. as following:

| Table 5 – General field strength limits at frequencies above 30 MHz |                                      |                                  |
|---------------------------------------------------------------------|--------------------------------------|----------------------------------|
| FREQUENCIES<br>(MHz)                                                | FIELD STRENGTH<br>(microvolts/meter) | MEASUREMENT DISTANCE<br>(meters) |
| 30 ~ 88                                                             | 100                                  | 3                                |
| 88 ~ 216                                                            | 150                                  | 3                                |
| 216 ~ 960                                                           | 200                                  | 3                                |
| Above 960                                                           | 500                                  | 3                                |

| Table 6 – General field strength limits at frequencies below 30 MHz |                                                      |                                  |
|---------------------------------------------------------------------|------------------------------------------------------|----------------------------------|
| FREQUENCIES<br>(MHz)                                                | Magnetic field<br>strength (H-Field)<br>( $\mu$ A/m) | MEASUREMENT DISTANCE<br>(meters) |
| 9 - 490 kHz                                                         | $6.37/F$ (F in kHz)                                  | 300                              |
| 490 - 1705 kHz                                                      | $63.7/F$ (F in kHz)                                  | 30                               |
| 1.705 - 30 MHz                                                      | 0.08                                                 | 30                               |

**NOTE:**

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. The lower limit shall apply at the transition frequencies.
3. Emission level (dBuV/m) =  $20 \log$  Emission level ( $\mu$ V/m).
4. dBuV/m = dBuA/m + 51.5



### 3.2.3 Measurement procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn 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. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. 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.

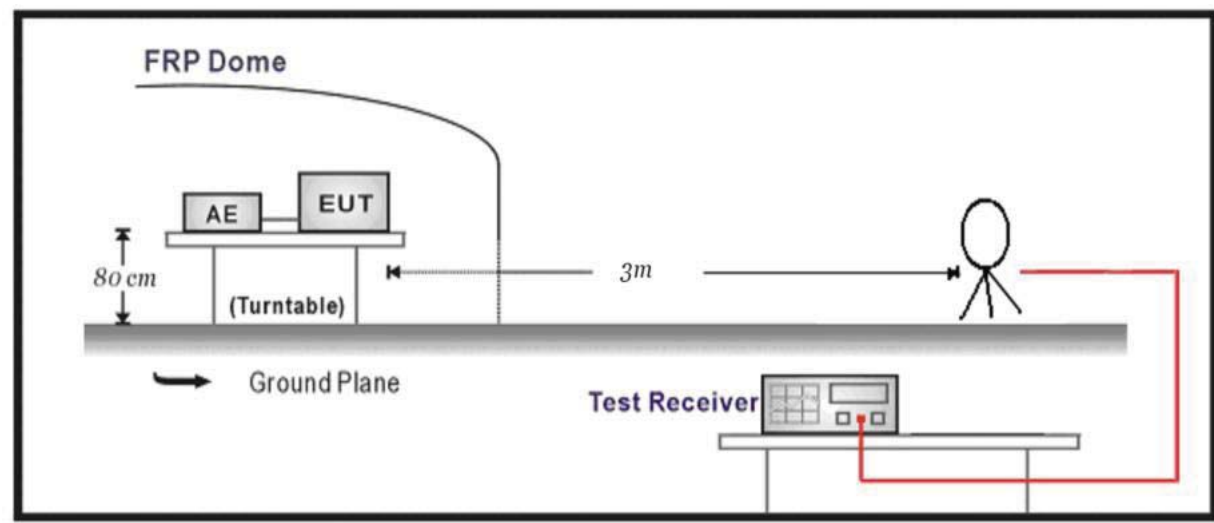
#### NOTE:

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  $\geq 1/T$  (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

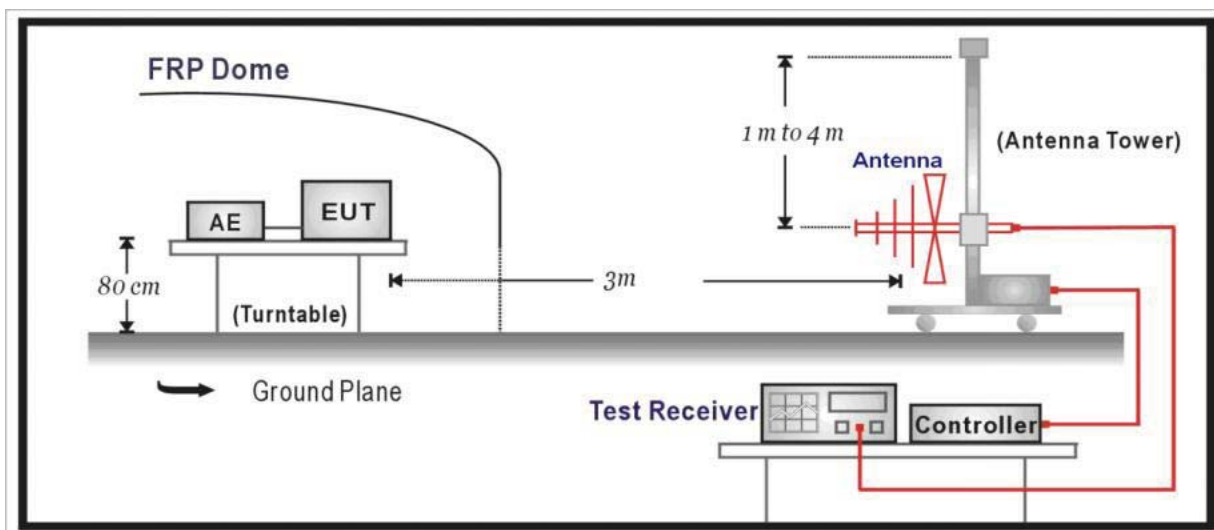
The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

### 3.2.4 Test setup

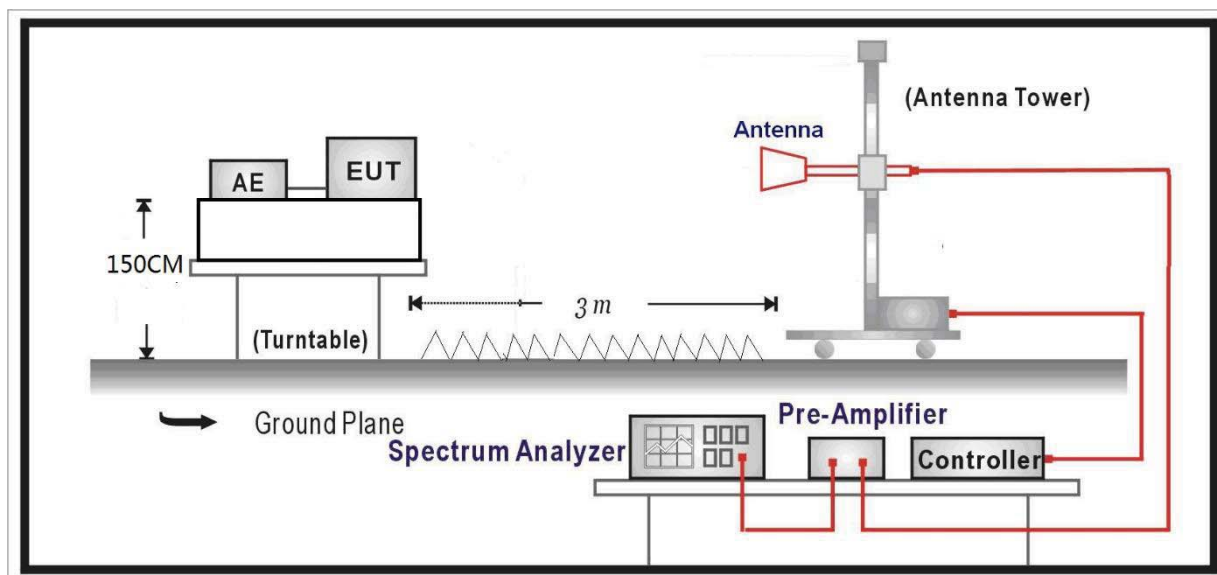
Below 30MHz Test Setup:



Below 1GHz Test Setup:



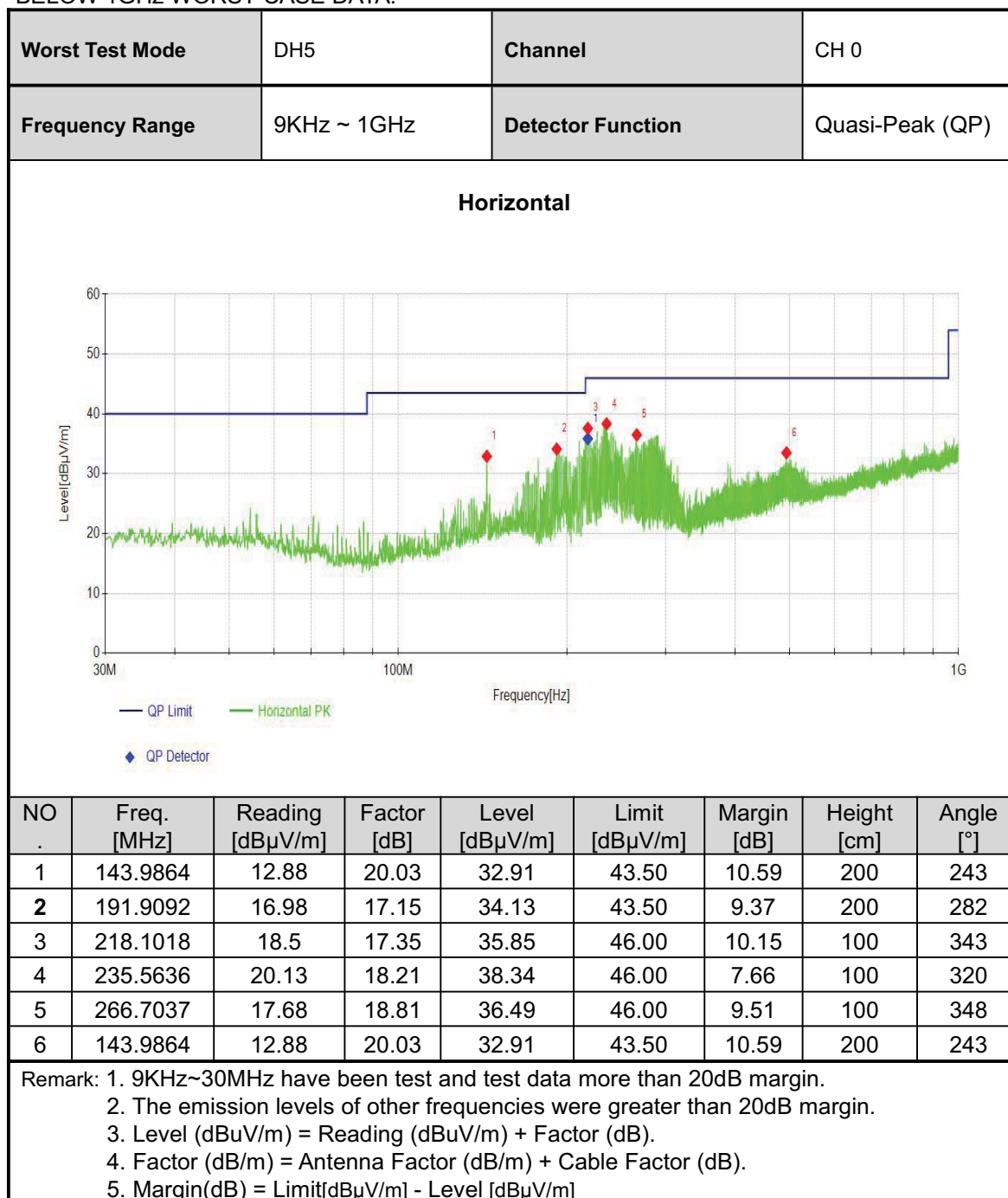
Above 1GHz Test Setup:

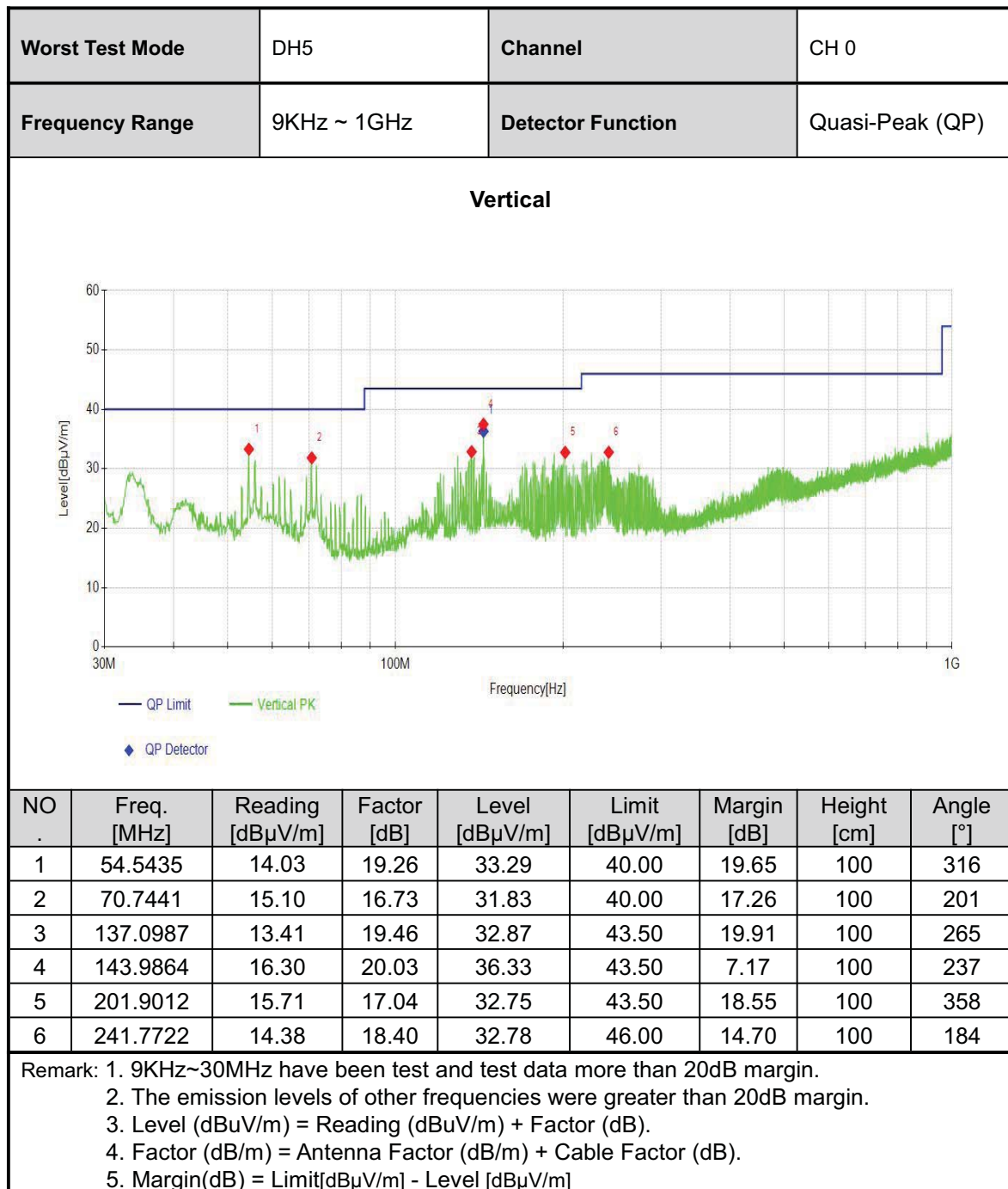




## 3.2.5 Test results

BELOW 1GHz WORST-CASE DATA:







## ABOVE 1GHz DATA

### DH5-CH 0

|                                                                                                                                                                                                                                                              |             |                  |             |                   |                |             |             |           |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|-------------------|----------------|-------------|-------------|-----------|--------|
| Channel                                                                                                                                                                                                                                                      |             | CH 0             |             | Frequency         |                | 2402MHz     |             |           |        |
| Frequency Range                                                                                                                                                                                                                                              |             | Above 1G         |             | Detector Function |                | PK/AV       |             |           |        |
| Horizontal                                                                                                                                                                                                                                                   |             |                  |             |                   |                |             |             |           |        |
| NO                                                                                                                                                                                                                                                           | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m]    | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                            | 2390.0000   | 36.51            | -0.15       | 36.36             | 54.00          | 17.64       | 165         | 136       | AV     |
| 2                                                                                                                                                                                                                                                            | 2390.0000   | 44.42            | -0.15       | 44.27             | 74.00          | 29.73       | 165         | 41        | PK     |
| 3                                                                                                                                                                                                                                                            | 2401.9122   | 103.19           | -0.03       | 103.16            |                |             | 184         | 190       | AV     |
| 4                                                                                                                                                                                                                                                            | 2402.0832   | 103.57           | -0.03       | 103.54            |                |             | 184         | 190       | PK     |
| 5                                                                                                                                                                                                                                                            | 4804.0000   | 43.49            | 9.29        | 52.78             | 74.00          | 21.22       | 130         | 154       | PK     |
| 6                                                                                                                                                                                                                                                            | 4804.0000   | 35.64            | 9.29        | 44.93             | 54.00          | 9.07        | 130         | 256       | AV     |
| 7                                                                                                                                                                                                                                                            | 7206.0000   | 18.53            | 12.81       | 31.34             | 54.00          | 22.66       | 166         | 144       | AV     |
| 8                                                                                                                                                                                                                                                            | 7206.0000   | 26.54            | 12.81       | 39.35             | 74.00          | 34.65       | 166         | 272       | PK     |
| 9                                                                                                                                                                                                                                                            | 9608.0000   | 28.12            | 13.32       | 41.44             | 74.00          | 32.56       | 193         | 144       | PK     |
| 10                                                                                                                                                                                                                                                           | 9608.0000   | 19.22            | 13.32       | 32.54             | 54.00          | 21.46       | 193         | 99        | AV     |
| Vertical                                                                                                                                                                                                                                                     |             |                  |             |                   |                |             |             |           |        |
| NO                                                                                                                                                                                                                                                           | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m]    | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                            | 2390.0000   | 36.57            | -0.15       | 36.42             | 54.00          | 17.58       | 247         | 60        | AV     |
| 2                                                                                                                                                                                                                                                            | 2390.0000   | 44.31            | -0.15       | 44.16             | 74.00          | 29.84       | 247         | 224       | PK     |
| 3                                                                                                                                                                                                                                                            | 2401.7602   | 101.30           | -0.04       | 101.26            |                |             | 181         | 327       | PK     |
| 4                                                                                                                                                                                                                                                            | 2401.8172   | 101.03           | -0.03       | 101.00            |                |             | 181         | 327       | AV     |
| 5                                                                                                                                                                                                                                                            | 4804.0000   | 43.10            | 9.29        | 52.39             | 74.00          | 21.61       | 213         | 139       | PK     |
| 6                                                                                                                                                                                                                                                            | 4804.0000   | 34.51            | 9.29        | 43.80             | 54.00          | 10.20       | 213         | 302       | AV     |
| 7                                                                                                                                                                                                                                                            | 7206.0000   | 18.68            | 12.81       | 31.49             | 54.00          | 22.51       | 106         | 353       | AV     |
| 8                                                                                                                                                                                                                                                            | 7206.0000   | 26.97            | 12.81       | 39.78             | 74.00          | 34.22       | 106         | 48        | PK     |
| 9                                                                                                                                                                                                                                                            | 9608.0000   | 27.16            | 13.32       | 40.48             | 74.00          | 33.52       | 144         | 88        | PK     |
| 10                                                                                                                                                                                                                                                           | 9608.0000   | 19.27            | 13.32       | 32.59             | 54.00          | 21.41       | 144         | 32        | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m] |             |                  |             |                   |                |             |             |           |        |



## DH5-CH 39

|                                                                                                                                                                                                                                                              |                |                     |                |                   |                   |                |                |              |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|--------|
| Channel                                                                                                                                                                                                                                                      |                | CH 39               |                | Frequency         |                   | 2441MHz        |                |              |        |
| Frequency Range                                                                                                                                                                                                                                              |                | Above 1G            |                | Detector Function |                   | PK/AV          |                |              |        |
| Horizontal                                                                                                                                                                                                                                                   |                |                     |                |                   |                   |                |                |              |        |
| NO                                                                                                                                                                                                                                                           | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Remark |
| 1                                                                                                                                                                                                                                                            | 4882.0000      | 42.84               | 9.84           | 52.68             | 74.00             | 21.32          | 105            | 328          | PK     |
| 2                                                                                                                                                                                                                                                            | 4882.0000      | 35.08               | 9.84           | 44.92             | 54.00             | 9.08           | 105            | 257          | AV     |
| 3                                                                                                                                                                                                                                                            | 7323.0000      | 19.36               | 10.96          | 30.32             | 54.00             | 23.68          | 249            | 277          | AV     |
| 4                                                                                                                                                                                                                                                            | 7323.0000      | 27.15               | 10.96          | 38.11             | 74.00             | 35.89          | 249            | 272          | PK     |
| 5                                                                                                                                                                                                                                                            | 9764.0000      | 27.31               | 13.23          | 40.54             | 74.00             | 33.46          | 294            | 328          | PK     |
| 6                                                                                                                                                                                                                                                            | 9764.0000      | 19.34               | 13.23          | 32.57             | 54.00             | 21.43          | 294            | 353          | AV     |
| Vertical                                                                                                                                                                                                                                                     |                |                     |                |                   |                   |                |                |              |        |
| NO                                                                                                                                                                                                                                                           | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Remark |
| 1                                                                                                                                                                                                                                                            | 4882.0000      | 43.46               | 9.84           | 53.30             | 74.00             | 20.70          | 210            | 77           | PK     |
| 2                                                                                                                                                                                                                                                            | 4882.0000      | 34.67               | 9.84           | 44.51             | 54.00             | 9.49           | 210            | 354          | AV     |
| 3                                                                                                                                                                                                                                                            | 7323.0000      | 19.77               | 10.96          | 30.73             | 54.00             | 23.27          | 251            | 185          | AV     |
| 4                                                                                                                                                                                                                                                            | 7323.0000      | 27.45               | 10.96          | 38.41             | 74.00             | 35.59          | 251            | 185          | PK     |
| 5                                                                                                                                                                                                                                                            | 9764.0000      | 27.31               | 13.23          | 40.54             | 74.00             | 33.46          | 128            | 93           | PK     |
| 6                                                                                                                                                                                                                                                            | 9764.0000      | 19.20               | 13.23          | 32.43             | 54.00             | 21.57          | 128            | 252          | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m] |                |                     |                |                   |                   |                |                |              |        |



## DH5-CH 78

|                                                                                                                                                                                                                                                             |                |                     |                |                   |                   |                |                |              |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|--------|
| Channel                                                                                                                                                                                                                                                     |                | CH 78               |                |                   | Frequency         |                | 2480MHz        |              |        |
| Frequency Range                                                                                                                                                                                                                                             |                | Above 1G            |                |                   | Detector Function |                | PK/AV          |              |        |
| Horizontal                                                                                                                                                                                                                                                  |                |                     |                |                   |                   |                |                |              |        |
| NO                                                                                                                                                                                                                                                          | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2479.7440      | 104.27              | 0.33           | 104.60            |                   |                | 288            | 205          | PK     |
| 2                                                                                                                                                                                                                                                           | 2479.7440      | 103.84              | 0.33           | 104.17            |                   |                | 288            | 212          | AV     |
| 3                                                                                                                                                                                                                                                           | 2483.5000      | 39.83               | 0.46           | 40.29             | 54.00             | 13.71          | 139            | 198          | AV     |
| 4                                                                                                                                                                                                                                                           | 2483.5000      | 47.33               | 0.46           | 47.79             | 74.00             | 26.21          | 139            | 198          | PK     |
| 5                                                                                                                                                                                                                                                           | 4960.0000      | 43.86               | 10.69          | 54.55             | 74.00             | 19.45          | 217            | 168          | PK     |
| 6                                                                                                                                                                                                                                                           | 4960.0000      | 35.04               | 10.69          | 45.73             | 54.00             | 8.27           | 217            | 17           | AV     |
| 7                                                                                                                                                                                                                                                           | 7440.0000      | 19.66               | 9.75           | 29.41             | 54.00             | 24.59          | 229            | 356          | AV     |
| 8                                                                                                                                                                                                                                                           | 7440.0000      | 27.86               | 9.75           | 37.61             | 74.00             | 36.39          | 229            | 356          | PK     |
| 9                                                                                                                                                                                                                                                           | 9920.0000      | 27.88               | 13.83          | 41.71             | 74.00             | 32.29          | 226            | 102          | PK     |
| 10                                                                                                                                                                                                                                                          | 9920.0000      | 19.48               | 13.83          | 33.31             | 54.00             | 20.69          | 226            | 243          | AV     |
| Vertical                                                                                                                                                                                                                                                    |                |                     |                |                   |                   |                |                |              |        |
| NO                                                                                                                                                                                                                                                          | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2479.7630      | 100.10              | 0.33           | 100.43            |                   |                | 295            | 204          | PK     |
| 2                                                                                                                                                                                                                                                           | 2479.7630      | 99.72               | 0.33           | 100.05            |                   |                | 295            | 204          | AV     |
| 3                                                                                                                                                                                                                                                           | 2483.5000      | 37.95               | 0.46           | 38.41             | 54.00             | 15.59          | 220            | 204          | AV     |
| 4                                                                                                                                                                                                                                                           | 2483.5000      | 46.21               | 0.46           | 46.67             | 74.00             | 27.33          | 220            | 184          | PK     |
| 5                                                                                                                                                                                                                                                           | 4960.0000      | 43.28               | 10.69          | 53.97             | 74.00             | 20.03          | 231            | 237          | PK     |
| 6                                                                                                                                                                                                                                                           | 4960.0000      | 34.84               | 10.69          | 45.53             | 54.00             | 8.47           | 231            | 227          | AV     |
| 7                                                                                                                                                                                                                                                           | 7440.0000      | 19.44               | 9.75           | 29.19             | 54.00             | 24.81          | 157            | 8            | AV     |
| 8                                                                                                                                                                                                                                                           | 7440.0000      | 27.76               | 9.75           | 37.51             | 74.00             | 36.49          | 157            | 330          | PK     |
| 9                                                                                                                                                                                                                                                           | 9920.0000      | 27.57               | 13.83          | 41.40             | 74.00             | 32.60          | 292            | 265          | PK     |
| 10                                                                                                                                                                                                                                                          | 9920.0000      | 19.94               | 13.83          | 33.77             | 54.00             | 20.23          | 292            | 58           | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = LimitdBuV/m] - Level [dBuV/m] |                |                     |                |                   |                   |                |                |              |        |



## 2DH5-CH 0

| Channel                                                                                                                                                                                                                                                      |             | CH 0             |             | Frequency         |                | 2402MHz     |             |           |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|-------------------|----------------|-------------|-------------|-----------|--------|
| Frequency Range                                                                                                                                                                                                                                              |             | Above 1G         |             | Detector Function |                | PK/AV       |             |           |        |
| Horizontal                                                                                                                                                                                                                                                   |             |                  |             |                   |                |             |             |           |        |
| NO                                                                                                                                                                                                                                                           | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m]    | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                            | 2390.0000   | 37.12            | -0.15       | 36.97             | 54.00          | 17.03       | 124         | 84        | AV     |
| 2                                                                                                                                                                                                                                                            | 2390.0000   | 44.86            | -0.15       | 44.71             | 74.00          | 29.29       | 124         | 69        | PK     |
| 3                                                                                                                                                                                                                                                            | 2401.8742   | 89.50            | -0.03       | 89.47             |                |             | 142         | 188       | AV     |
| 4                                                                                                                                                                                                                                                            | 2402.0072   | 92.01            | -0.03       | 91.98             |                |             | 142         | 188       | PK     |
| 5                                                                                                                                                                                                                                                            | 4804.0000   | 42.31            | 9.29        | 51.60             | 74.00          | 22.40       | 115         | 184       | PK     |
| 6                                                                                                                                                                                                                                                            | 4804.0000   | 35.03            | 9.29        | 44.32             | 54.00          | 9.68        | 115         | 73        | AV     |
| 7                                                                                                                                                                                                                                                            | 7206.0000   | 19.07            | 12.81       | 31.88             | 54.00          | 22.12       | 115         | 328       | AV     |
| 8                                                                                                                                                                                                                                                            | 7206.0000   | 27.51            | 12.81       | 40.32             | 74.00          | 33.68       | 115         | 298       | PK     |
| 9                                                                                                                                                                                                                                                            | 9608.0000   | 27.09            | 13.32       | 40.41             | 74.00          | 33.59       | 191         | 222       | PK     |
| 10                                                                                                                                                                                                                                                           | 9608.0000   | 19.00            | 13.32       | 32.32             | 54.00          | 21.68       | 191         | 323       | AV     |
| Vertical                                                                                                                                                                                                                                                     |             |                  |             |                   |                |             |             |           |        |
| NO                                                                                                                                                                                                                                                           | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m]    | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                            | 2390.0000   | 37.07            | -0.15       | 36.92             | 54.00          | 17.08       | 264         | 253       | AV     |
| 2                                                                                                                                                                                                                                                            | 2390.0000   | 44.29            | -0.15       | 44.14             | 74.00          | 29.86       | 264         | 115       | PK     |
| 3                                                                                                                                                                                                                                                            | 2401.6652   | 86.57            | -0.04       | 86.53             |                |             | 284         | 323       | AV     |
| 4                                                                                                                                                                                                                                                            | 2401.7222   | 89.80            | -0.04       | 89.76             |                |             | 284         | 323       | PK     |
| 5                                                                                                                                                                                                                                                            | 4804.0000   | 42.43            | 9.29        | 51.72             | 74.00          | 22.28       | 161         | 359       | PK     |
| 6                                                                                                                                                                                                                                                            | 4804.0000   | 35.02            | 9.29        | 44.31             | 54.00          | 9.69        | 161         | 272       | AV     |
| 7                                                                                                                                                                                                                                                            | 7206.0000   | 19.73            | 12.81       | 32.54             | 54.00          | 21.46       | 188         | 180       | AV     |
| 8                                                                                                                                                                                                                                                            | 7206.0000   | 26.68            | 12.81       | 39.49             | 74.00          | 34.51       | 188         | 124       | PK     |
| 9                                                                                                                                                                                                                                                            | 9608.0000   | 27.68            | 13.32       | 41.00             | 74.00          | 33.00       | 204         | 88        | PK     |
| 10                                                                                                                                                                                                                                                           | 9608.0000   | 19.74            | 13.32       | 33.06             | 54.00          | 20.94       | 204         | 267       | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m] |             |                  |             |                   |                |             |             |           |        |



## 2DH5-CH 39

|                                                                                                                                                                                                                                                              |                |                     |                |                   |                   |                |                |              |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|--------|
| Channel                                                                                                                                                                                                                                                      |                | CH 39               |                | Frequency         |                   | 2441MHz        |                |              |        |
| Frequency Range                                                                                                                                                                                                                                              |                | Above 1G            |                | Detector Function |                   | PK/AV          |                |              |        |
| Horizontal                                                                                                                                                                                                                                                   |                |                     |                |                   |                   |                |                |              |        |
| NO                                                                                                                                                                                                                                                           | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Remark |
| 1                                                                                                                                                                                                                                                            | 4882.0000      | 42.26               | 9.84           | 52.10             | 74.00             | 21.90          | 244            | 1            | PK     |
| 2                                                                                                                                                                                                                                                            | 4882.0000      | 34.70               | 9.84           | 44.54             | 54.00             | 9.46           | 244            | 335          | AV     |
| 3                                                                                                                                                                                                                                                            | 7323.0000      | 19.68               | 10.96          | 30.64             | 54.00             | 23.36          | 139            | 15           | AV     |
| 4                                                                                                                                                                                                                                                            | 7323.0000      | 28.56               | 10.96          | 39.52             | 74.00             | 34.48          | 139            | 0            | PK     |
| 5                                                                                                                                                                                                                                                            | 9764.0000      | 27.37               | 13.23          | 40.60             | 74.00             | 33.40          | 281            | 1            | PK     |
| 6                                                                                                                                                                                                                                                            | 9764.0000      | 19.31               | 13.23          | 32.54             | 54.00             | 21.46          | 281            | 273          | AV     |
| Vertical                                                                                                                                                                                                                                                     |                |                     |                |                   |                   |                |                |              |        |
| NO                                                                                                                                                                                                                                                           | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Remark |
| 1                                                                                                                                                                                                                                                            | 4882.0000      | 43.03               | 9.84           | 52.87             | 74.00             | 21.13          | 221            | 181          | PK     |
| 2                                                                                                                                                                                                                                                            | 4882.0000      | 35.41               | 9.84           | 45.25             | 54.00             | 8.75           | 221            | 323          | AV     |
| 3                                                                                                                                                                                                                                                            | 7323.0000      | 19.81               | 10.96          | 30.77             | 54.00             | 23.23          | 275            | 219          | AV     |
| 4                                                                                                                                                                                                                                                            | 7323.0000      | 27.70               | 10.96          | 38.66             | 74.00             | 35.34          | 275            | 360          | PK     |
| 5                                                                                                                                                                                                                                                            | 9764.0000      | 26.49               | 13.23          | 39.72             | 74.00             | 34.28          | 289            | 199          | PK     |
| 6                                                                                                                                                                                                                                                            | 9764.0000      | 19.02               | 13.23          | 32.25             | 54.00             | 21.75          | 289            | 229          | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m] |                |                     |                |                   |                   |                |                |              |        |



## 2DH5-CH 78

|                                                                                                                                                                                                                                                             |             |                  |             |                |                   |             |             |           |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|----------------|-------------------|-------------|-------------|-----------|--------|
| Channel                                                                                                                                                                                                                                                     |             | CH 78            |             |                | Frequency         |             | 2480MHz     |           |        |
| Frequency Range                                                                                                                                                                                                                                             |             | Above 1G         |             |                | Detector Function |             | PK/AV       |           |        |
| Horizontal                                                                                                                                                                                                                                                  |             |                  |             |                |                   |             |             |           |        |
| NO                                                                                                                                                                                                                                                          | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m]    | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2479.8010   | 94.15            | 0.32        | 94.47          |                   |             | 134         | 211       | PK     |
| 2                                                                                                                                                                                                                                                           | 2480.0480   | 91.72            | 0.32        | 92.04          |                   |             | 134         | 191       | AV     |
| 3                                                                                                                                                                                                                                                           | 2483.5000   | 36.79            | 0.46        | 37.25          | 54.00             | 16.75       | 262         | 36        | AV     |
| 4                                                                                                                                                                                                                                                           | 2483.5000   | 45.94            | 0.46        | 46.40          | 74.00             | 27.60       | 262         | 232       | PK     |
| 5                                                                                                                                                                                                                                                           | 4960.0000   | 42.57            | 10.69       | 53.26          | 74.00             | 20.74       | 297         | 225       | PK     |
| 6                                                                                                                                                                                                                                                           | 4960.0000   | 35.10            | 10.69       | 45.79          | 54.00             | 8.21        | 297         | 240       | AV     |
| 7                                                                                                                                                                                                                                                           | 7440.0000   | 19.76            | 9.75        | 29.51          | 54.00             | 24.49       | 143         | 190       | AV     |
| 8                                                                                                                                                                                                                                                           | 7440.0000   | 28.40            | 9.75        | 38.15          | 74.00             | 35.85       | 143         | 175       | PK     |
| 9                                                                                                                                                                                                                                                           | 9920.0000   | 28.19            | 13.83       | 42.02          | 74.00             | 31.98       | 155         | 257       | PK     |
| 10                                                                                                                                                                                                                                                          | 9920.0000   | 20.50            | 13.83       | 34.33          | 54.00             | 19.67       | 155         | 88        | AV     |
| Vertical                                                                                                                                                                                                                                                    |             |                  |             |                |                   |             |             |           |        |
| NO                                                                                                                                                                                                                                                          | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m]    | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2479.9340   | 85.49            | 0.32        | 85.81          |                   |             | 202         | 127       | AV     |
| 2                                                                                                                                                                                                                                                           | 2480.0670   | 88.04            | 0.32        | 88.36          |                   |             | 202         | 127       | PK     |
| 3                                                                                                                                                                                                                                                           | 2483.5000   | 37.14            | 0.46        | 37.60          | 54.00             | 16.40       | 283         | 46        | AV     |
| 4                                                                                                                                                                                                                                                           | 2483.5000   | 46.23            | 0.46        | 46.69          | 74.00             | 27.31       | 283         | 46        | PK     |
| 5                                                                                                                                                                                                                                                           | 4960.0000   | 43.54            | 10.69       | 54.23          | 74.00             | 19.77       | 142         | 100       | PK     |
| 6                                                                                                                                                                                                                                                           | 4960.0000   | 34.59            | 10.69       | 45.28          | 54.00             | 8.72        | 142         | 20        | AV     |
| 7                                                                                                                                                                                                                                                           | 7440.0000   | 20.68            | 9.75        | 30.43          | 54.00             | 23.57       | 121         | 194       | AV     |
| 8                                                                                                                                                                                                                                                           | 7440.0000   | 28.19            | 9.75        | 37.94          | 74.00             | 36.06       | 121         | 275       | PK     |
| 9                                                                                                                                                                                                                                                           | 9920.0000   | 27.52            | 13.83       | 41.35          | 74.00             | 32.65       | 143         | 320       | PK     |
| 10                                                                                                                                                                                                                                                          | 9920.0000   | 20.11            | 13.83       | 33.94          | 54.00             | 20.06       | 143         | 129       | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = LimitdBuV/m] - Level [dBuV/m] |             |                  |             |                |                   |             |             |           |        |



## 3DH5-CH 0

| Channel                                                                                                                                                                                                                                                     |             | CH 0             |             |                | Frequency         |             | 2402MHz     |           |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|----------------|-------------------|-------------|-------------|-----------|--------|
| Frequency Range                                                                                                                                                                                                                                             |             | Above 1G         |             |                | Detector Function |             | PK/AV       |           |        |
| Horizontal                                                                                                                                                                                                                                                  |             |                  |             |                |                   |             |             |           |        |
| NO                                                                                                                                                                                                                                                          | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m]    | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2390.0000   | 36.47            | -0.15       | 36.32          | 54.00             | 17.68       | 113         | 77        | AV     |
| 2                                                                                                                                                                                                                                                           | 2390.0000   | 44.38            | -0.15       | 44.23          | 74.00             | 29.77       | 113         | 226       | PK     |
| 3                                                                                                                                                                                                                                                           | 2401.9312   | 92.18            | -0.03       | 92.15          |                   |             | 200         | 185       | PK     |
| 4                                                                                                                                                                                                                                                           | 2401.9502   | 89.27            | -0.03       | 89.24          |                   |             | 200         | 192       | AV     |
| 5                                                                                                                                                                                                                                                           | 4804.0000   | 44.16            | 9.29        | 53.45          | 74.00             | 20.55       | 236         | 306       | PK     |
| 6                                                                                                                                                                                                                                                           | 4804.0000   | 35.50            | 9.29        | 44.79          | 54.00             | 9.21        | 236         | 291       | AV     |
| 7                                                                                                                                                                                                                                                           | 7206.0000   | 19.53            | 12.81       | 32.34          | 54.00             | 21.66       | 161         | 23        | AV     |
| 8                                                                                                                                                                                                                                                           | 7206.0000   | 28.28            | 12.81       | 41.09          | 74.00             | 32.91       | 161         | 312       | PK     |
| 9                                                                                                                                                                                                                                                           | 9608.0000   | 27.79            | 13.32       | 41.11          | 74.00             | 32.89       | 184         | 287       | PK     |
| 10                                                                                                                                                                                                                                                          | 9608.0000   | 20.14            | 13.32       | 33.46          | 54.00             | 20.54       | 184         | 282       | AV     |
| Vertical                                                                                                                                                                                                                                                    |             |                  |             |                |                   |             |             |           |        |
| NO                                                                                                                                                                                                                                                          | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m]    | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2390.0000   | 36.76            | -0.15       | 36.61          | 54.00             | 17.39       | 268         | 188       | AV     |
| 2                                                                                                                                                                                                                                                           | 2390.0000   | 45.56            | -0.15       | 45.41          | 74.00             | 28.59       | 268         | 256       | PK     |
| 3                                                                                                                                                                                                                                                           | 2401.9882   | 89.97            | -0.03       | 89.94          |                   |             | 126         | 331       | PK     |
| 4                                                                                                                                                                                                                                                           | 2402.0832   | 87.02            | -0.03       | 86.99          |                   |             | 126         | 324       | AV     |
| 5                                                                                                                                                                                                                                                           | 4804.0000   | 43.94            | 9.29        | 53.23          | 74.00             | 20.77       | 226         | 236       | PK     |
| 6                                                                                                                                                                                                                                                           | 4804.0000   | 35.00            | 9.29        | 44.29          | 54.00             | 9.71        | 226         | 114       | AV     |
| 7                                                                                                                                                                                                                                                           | 7206.0000   | 19.22            | 12.81       | 32.03          | 54.00             | 21.97       | 178         | 22        | AV     |
| 8                                                                                                                                                                                                                                                           | 7206.0000   | 27.07            | 12.81       | 39.88          | 74.00             | 34.12       | 178         | 205       | PK     |
| 9                                                                                                                                                                                                                                                           | 9608.0000   | 28.85            | 13.32       | 42.17          | 74.00             | 31.83       | 288         | 215       | PK     |
| 10                                                                                                                                                                                                                                                          | 9608.0000   | 20.04            | 13.32       | 33.36          | 54.00             | 20.64       | 288         | 276       | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = LimitdBuV/m] - Level [dBuV/m] |             |                  |             |                |                   |             |             |           |        |



## 3DH5-CH 39

|                                                                                                                                                                                                                                                              |             |                  |             |                   |                |             |             |           |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|-------------------|----------------|-------------|-------------|-----------|--------|
| Channel                                                                                                                                                                                                                                                      |             | CH 39            |             | Frequency         |                | 2441MHz     |             |           |        |
| Frequency Range                                                                                                                                                                                                                                              |             | Above 1G         |             | Detector Function |                | PK/AV       |             |           |        |
| Horizontal                                                                                                                                                                                                                                                   |             |                  |             |                   |                |             |             |           |        |
| NO                                                                                                                                                                                                                                                           | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m]    | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                            | 4882.0000   | 44.74            | 9.84        | 54.58             | 74.00          | 19.42       | 300         | 322       | PK     |
| 2                                                                                                                                                                                                                                                            | 4882.0000   | 36.16            | 9.84        | 46.00             | 54.00          | 8.00        | 300         | 327       | AV     |
| 3                                                                                                                                                                                                                                                            | 7323.0000   | 20.15            | 10.96       | 31.11             | 54.00          | 22.89       | 217         | 119       | AV     |
| 4                                                                                                                                                                                                                                                            | 7323.0000   | 28.58            | 10.96       | 39.54             | 74.00          | 34.46       | 217         | 1         | PK     |
| 5                                                                                                                                                                                                                                                            | 9764.0000   | 28.10            | 13.23       | 41.33             | 74.00          | 32.67       | 226         | 104       | PK     |
| 6                                                                                                                                                                                                                                                            | 9764.0000   | 19.42            | 13.23       | 32.65             | 54.00          | 21.35       | 226         | 104       | AV     |
| Vertical                                                                                                                                                                                                                                                     |             |                  |             |                   |                |             |             |           |        |
| NO                                                                                                                                                                                                                                                           | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m]    | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                            | 4882.0000   | 43.60            | 9.84        | 53.44             | 74.00          | 20.56       | 201         | 90        | PK     |
| 2                                                                                                                                                                                                                                                            | 4882.0000   | 35.63            | 9.84        | 45.47             | 54.00          | 8.53        | 201         | 323       | AV     |
| 3                                                                                                                                                                                                                                                            | 7323.0000   | 20.51            | 10.96       | 31.47             | 54.00          | 22.53       | 285         | 83        | AV     |
| 4                                                                                                                                                                                                                                                            | 7323.0000   | 29.40            | 10.96       | 40.36             | 74.00          | 33.64       | 285         | 204       | PK     |
| 5                                                                                                                                                                                                                                                            | 9764.0000   | 27.15            | 13.23       | 40.38             | 74.00          | 33.62       | 194         | 148       | PK     |
| 6                                                                                                                                                                                                                                                            | 9764.0000   | 19.62            | 13.23       | 32.85             | 54.00          | 21.15       | 194         | 118       | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m] |             |                  |             |                   |                |             |             |           |        |



## 3DH5-CH 78

|                                                                                                                                                                                                                                                             |             |                  |             |                |                   |             |             |           |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|----------------|-------------------|-------------|-------------|-----------|--------|
| Channel                                                                                                                                                                                                                                                     |             | CH 78            |             |                | Frequency         |             | 2480MHz     |           |        |
| Frequency Range                                                                                                                                                                                                                                             |             | Above 1G         |             |                | Detector Function |             | PK/AV       |           |        |
| Horizontal                                                                                                                                                                                                                                                  |             |                  |             |                |                   |             |             |           |        |
| NO                                                                                                                                                                                                                                                          | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m]    | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2479.9340   | 104.37           | 0.32        | 104.69         |                   |             | 253         | 207       | AV     |
| 2                                                                                                                                                                                                                                                           | 2479.9910   | 107.06           | 0.31        | 107.37         |                   |             | 253         | 207       | PK     |
| 3                                                                                                                                                                                                                                                           | 2483.5000   | 44.22            | 0.46        | 44.68          | 54.00             | 9.32        | 289         | 200       | AV     |
| 4                                                                                                                                                                                                                                                           | 2483.5000   | 52.46            | 0.46        | 52.92          | 74.00             | 21.08       | 289         | 180       | PK     |
| 5                                                                                                                                                                                                                                                           | 4960.0000   | 35.17            | 10.69       | 45.86          | 54.00             | 8.14        | 152         | 291       | AV     |
| 6                                                                                                                                                                                                                                                           | 4960.0000   | 43.33            | 10.69       | 54.02          | 74.00             | 19.98       | 152         | 17        | PK     |
| 7                                                                                                                                                                                                                                                           | 7440.0000   | 28.31            | 9.75        | 38.06          | 74.00             | 35.94       | 255         | 175       | PK     |
| 8                                                                                                                                                                                                                                                           | 7440.0000   | 20.40            | 9.75        | 30.15          | 54.00             | 23.85       | 255         | 119       | AV     |
| 9                                                                                                                                                                                                                                                           | 9920.0000   | 27.64            | 13.83       | 41.47          | 74.00             | 32.53       | 137         | 180       | PK     |
| 10                                                                                                                                                                                                                                                          | 9920.0000   | 19.57            | 13.83       | 33.40          | 54.00             | 20.60       | 137         | 159       | AV     |
| Vertical                                                                                                                                                                                                                                                    |             |                  |             |                |                   |             |             |           |        |
| NO                                                                                                                                                                                                                                                          | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m]    | Margin [dB] | Height [cm] | Angle [°] | Remark |
| 1                                                                                                                                                                                                                                                           | 2479.9150   | 99.15            | 0.32        | 99.47          |                   |             | 297         | 127       | AV     |
| 2                                                                                                                                                                                                                                                           | 2480.0290   | 100.94           | 0.32        | 101.26         |                   |             | 297         | 127       | PK     |
| 3                                                                                                                                                                                                                                                           | 2483.5000   | 41.00            | 0.46        | 41.46          | 54.00             | 12.54       | 221         | 113       | AV     |
| 4                                                                                                                                                                                                                                                           | 2483.5000   | 47.73            | 0.46        | 48.19          | 74.00             | 25.81       | 221         | 100       | PK     |
| 5                                                                                                                                                                                                                                                           | 4960.0000   | 43.29            | 10.69       | 53.98          | 74.00             | 20.02       | 253         | 282       | PK     |
| 6                                                                                                                                                                                                                                                           | 4960.0000   | 35.25            | 10.69       | 45.94          | 54.00             | 8.06        | 253         | 261       | AV     |
| 7                                                                                                                                                                                                                                                           | 7440.0000   | 19.82            | 9.75        | 29.57          | 54.00             | 24.43       | 223         | 263       | AV     |
| 8                                                                                                                                                                                                                                                           | 7440.0000   | 29.30            | 9.75        | 39.05          | 74.00             | 34.95       | 223         | 155       | PK     |
| 9                                                                                                                                                                                                                                                           | 9920.0000   | 28.50            | 13.83       | 42.33          | 74.00             | 31.67       | 238         | 12        | PK     |
| 10                                                                                                                                                                                                                                                          | 9920.0000   | 19.91            | 13.83       | 33.74          | 54.00             | 20.26       | 238         | 232       | AV     |
| Remark: 1. The emission levels of other frequencies were greater than 20dB margin.<br>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).<br>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).<br>4. Margin(dB) = LimitdBuV/m] - Level [dBuV/m] |             |                  |             |                |                   |             |             |           |        |

### 3.3 NUMBER OF HOPPING FREQUENCY USED

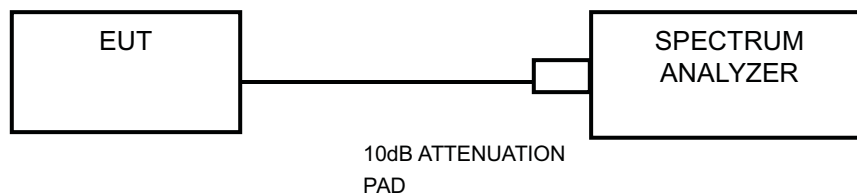
#### 3.3.1 Limits

At least 15 channels frequencies, and should be equally spaced.

#### 3.3.2 Measurement procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were completed.

#### 3.3.3 Test setup



#### 3.3.4 Test result

Refer to Appendix A.

### 3.4 DWELL TIME ON EACH CHANNEL

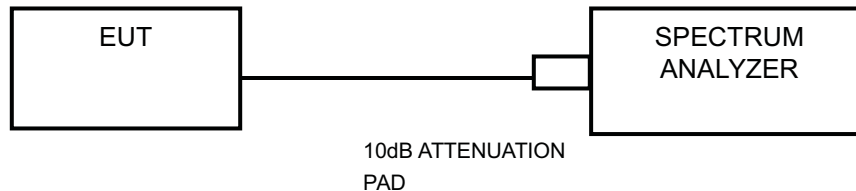
#### 3.4.1 Limits

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

#### 3.4.2 Measurement procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.

#### 3.4.3 Test setup



#### 3.4.4 Test result

Refer to Appendix A.

### 3.5 20dB EMISSION BANDWIDTH

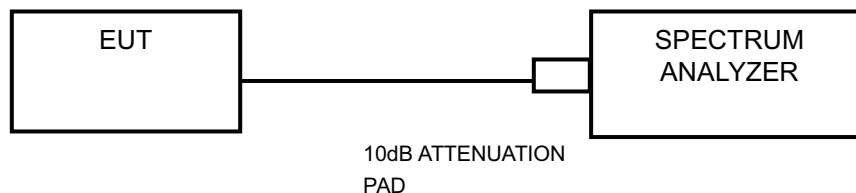
#### 3.5.1 Limits

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation

#### 3.5.2 Measurement procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

#### 3.5.3 Test setup



#### 3.5.4 Test result

Refer to Appendix A.

### 3.6 HOPPING CHANNEL SEPARATION

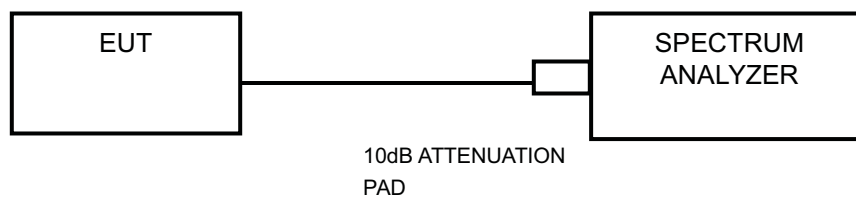
#### 3.6.1 Limits

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

#### 3.6.2 Measurement procedure

- a. Span: Wide enough to capture the peaks of two adjacent channels.
- b. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c. Video (or average) bandwidth (VBW)  $\geq$  RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

#### 3.6.3 Test setup



#### 3.6.4 Test result

Refer to Appendix A.

### 3.7 MAXIMUM OUTPUT POWER

#### 3.7.1 Limits(FCC)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

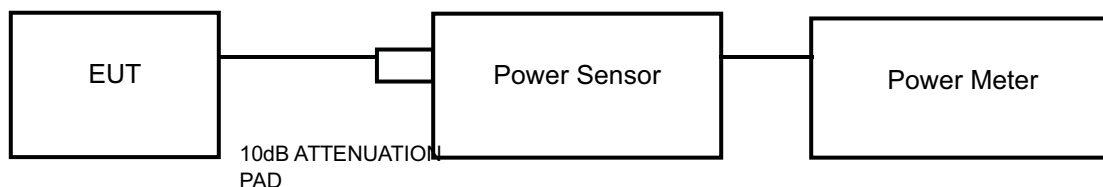
#### 3.7.2 Limits(IC)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W

#### 3.7.3 Measurement procedure

- A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.
- An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and set the detector to AVERAGE. Record the power level.

#### 3.7.4 Test setup



#### 3.7.5 Test result

Refer to Appendix A.

### 3.8 OUT OF BAND EMISSION MEASUREMENT

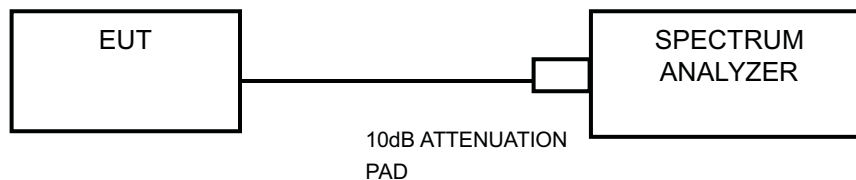
#### 3.8.1 Limits

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

#### 3.8.2 Measurement procedure

The transmitter output was connected to the spectrum analyzer via a low loss cable. of Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

#### 3.8.3 Test setup



#### 3.8.4 Test result

Refer to Appendix A.

## 3.9 OCCUPIED BANDWIDTH MEASUREMENT

### 3.9.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

### 3.9.2 TEST SETUP



### 3.9.3 Test result

Please refer Annex A.



## 4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Photos).



## 5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).



## 6 Appendix A

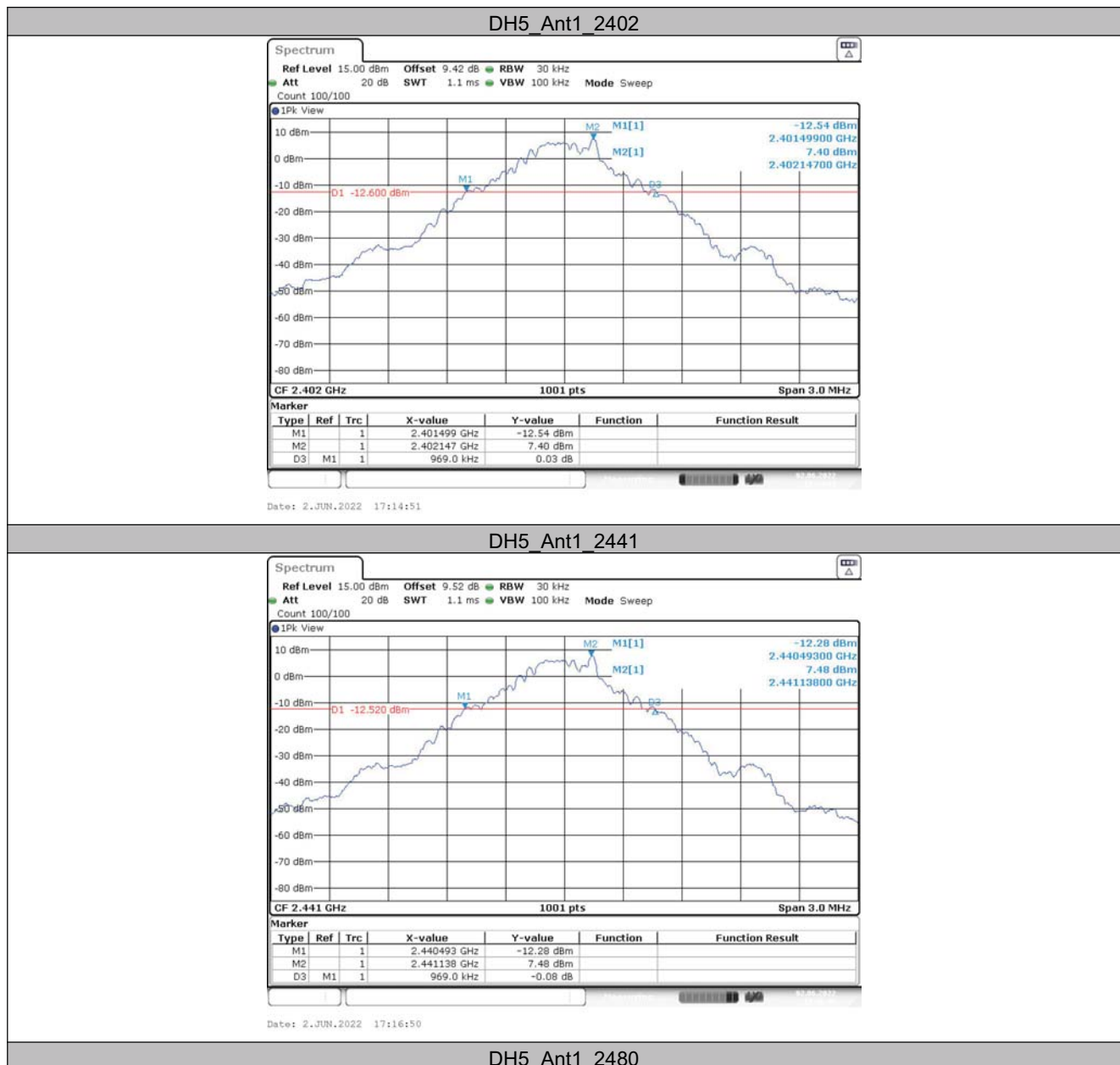
### 6.1 20dB Emission Bandwidth

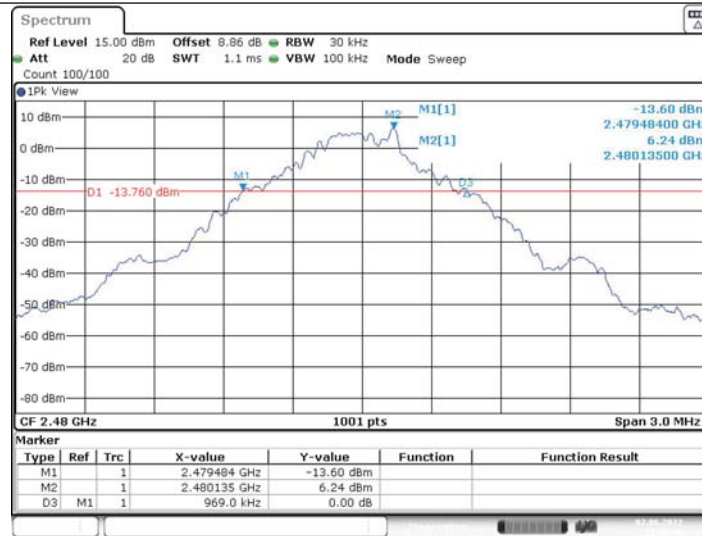
#### 6.1.1 Test Result

| TestMode | Antenna | Frequency[MHz] | 20db EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|---------------|---------|---------|------------|---------|
| DH5      | Ant1    | 2402           | 0.97          | 2401.50 | 2402.47 | ---        | ---     |
|          |         | 2441           | 0.97          | 2440.49 | 2441.46 | ---        | ---     |
|          |         | 2480           | 0.97          | 2479.48 | 2480.45 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.34          | 2401.32 | 2402.66 | ---        | ---     |
|          |         | 2441           | 1.34          | 2440.31 | 2441.65 | ---        | ---     |
|          |         | 2480           | 1.34          | 2479.31 | 2480.65 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.30          | 2401.35 | 2402.65 | ---        | ---     |
|          |         | 2441           | 1.30          | 2440.34 | 2441.64 | ---        | ---     |
|          |         | 2480           | 1.30          | 2479.33 | 2480.63 | ---        | ---     |

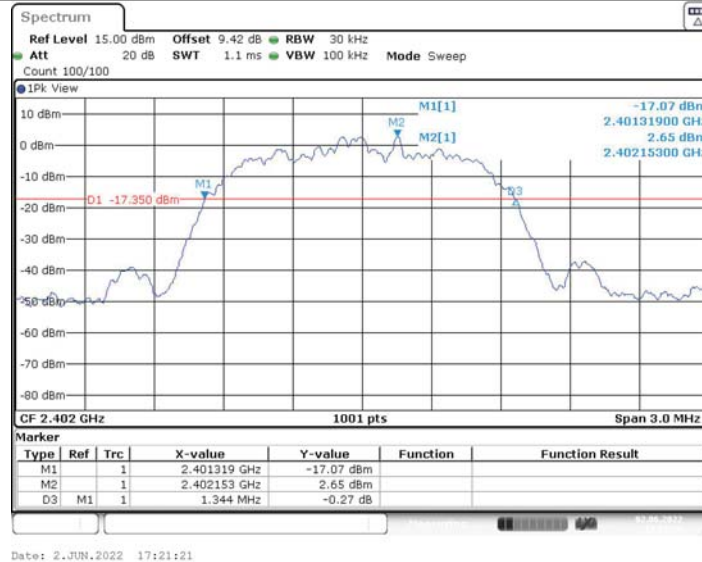


## 6.1.2 Test Graphs

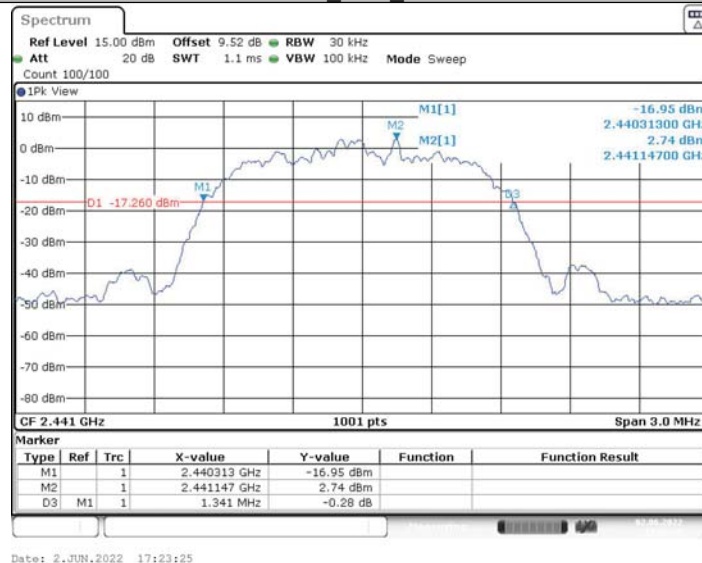




2DH5\_Ant1\_2402

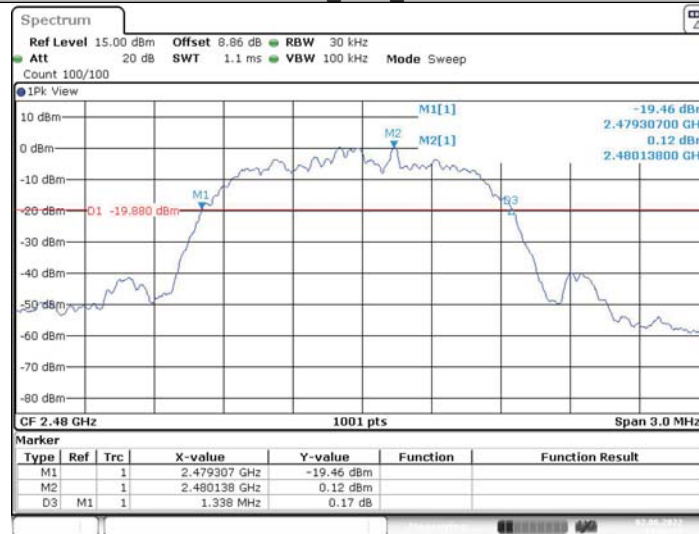


2DH5\_Ant1\_2441

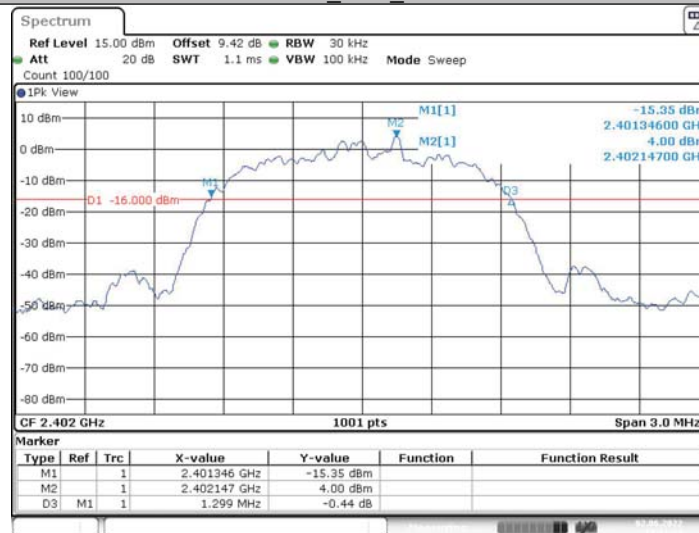




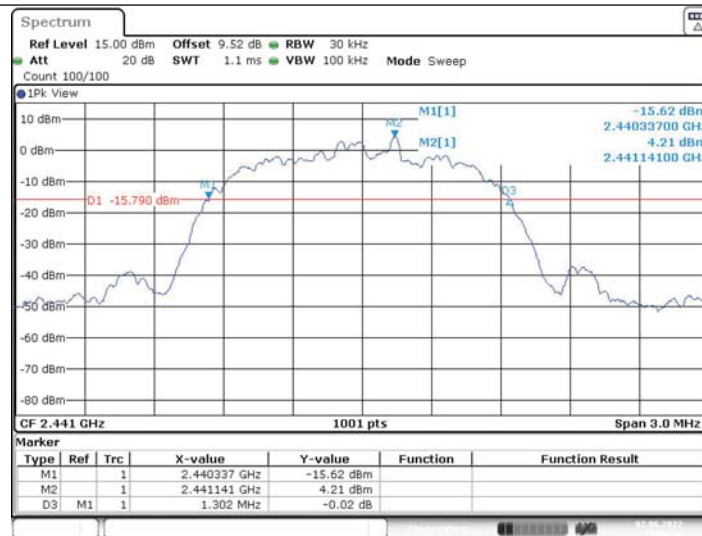
## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402

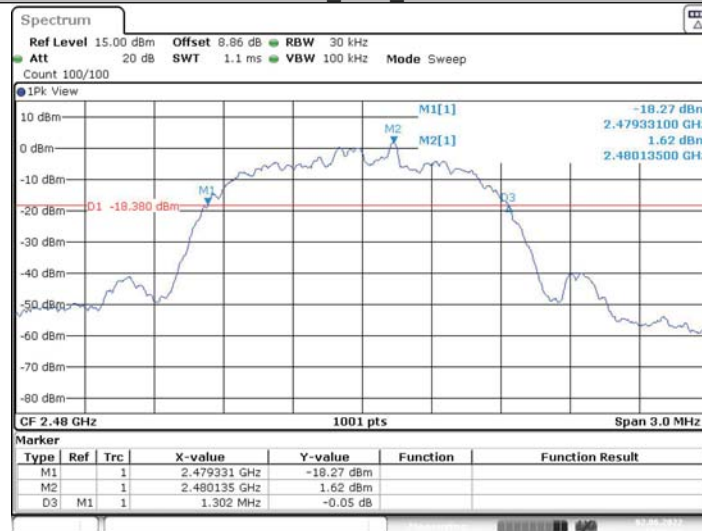


## 3DH5\_Ant1\_2441



Date: 2.JUN.2022 17:34:29

## 3DH5\_Ant1\_2480



Date: 2.JUN.2022 17:36:18



## 6.2 MAXIMUM OUTPUT POWER

### 6.2.1 Test Result

#### PK

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Limit [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|-------------|------------|------------|------------------|---------|
| DH5       | Ant1    | 2402           | 3.21            | ≤20.97      | 1.14       | 4.35       | ≤36.00           | PASS    |
|           |         | 2441           | 5.14            | ≤20.97      | 1.14       | 6.28       | ≤36.00           | PASS    |
|           |         | 2480           | 3.86            | ≤20.97      | 1.14       | 5.00       | ≤36.00           | PASS    |
| 2DH5      | Ant1    | 2402           | 6.13            | ≤20.97      | 1.14       | 7.27       | ≤36.00           | PASS    |
|           |         | 2441           | 4.26            | ≤20.97      | 1.14       | 5.40       | ≤36.00           | PASS    |
|           |         | 2480           | 5.55            | ≤20.97      | 1.14       | 6.69       | ≤36.00           | PASS    |
| 3DH5      | Ant1    | 2402           | 6.66            | ≤20.97      | 1.14       | 7.80       | ≤36.00           | PASS    |
|           |         | 2441           | 4.71            | ≤20.97      | 1.14       | 5.85       | ≤36.00           | PASS    |
|           |         | 2480           | 5.95            | ≤20.97      | 1.14       | 7.09       | ≤36.00           | PASS    |

#### AV

| Test Mode | Antenna | Frequency[MHz] | AV Power[dBm] | Limit [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-----------|---------|----------------|---------------|-------------|------------|------------|------------------|---------|
| DH5       | Ant1    | 2402           | 1.52          | ≤20.97      | 1.14       | 2.66       | ≤36.00           | PASS    |
|           |         | 2441           | 3.43          | ≤20.97      | 1.14       | 4.57       | ≤36.00           | PASS    |
|           |         | 2480           | 1.88          | ≤20.97      | 1.14       | 3.02       | ≤36.00           | PASS    |
| 2DH5      | Ant1    | 2402           | 2.34          | ≤20.97      | 1.14       | 3.50       | ≤36.00           | PASS    |
|           |         | 2441           | 0.38          | ≤20.97      | 1.14       | 1.18       | ≤36.00           | PASS    |
|           |         | 2480           | 1.51          | ≤20.97      | 1.14       | 2.65       | ≤36.00           | PASS    |
| 3DH5      | Ant1    | 2402           | 2.33          | ≤20.97      | 1.14       | 3.47       | ≤36.00           | PASS    |
|           |         | 2441           | 0.39          | ≤20.97      | 1.14       | 1.19       | ≤36.00           | PASS    |
|           |         | 2480           | 1.54          | ≤20.97      | 1.14       | 2.68       | ≤36.00           | PASS    |



## 6.3 Hopping Channel Separation

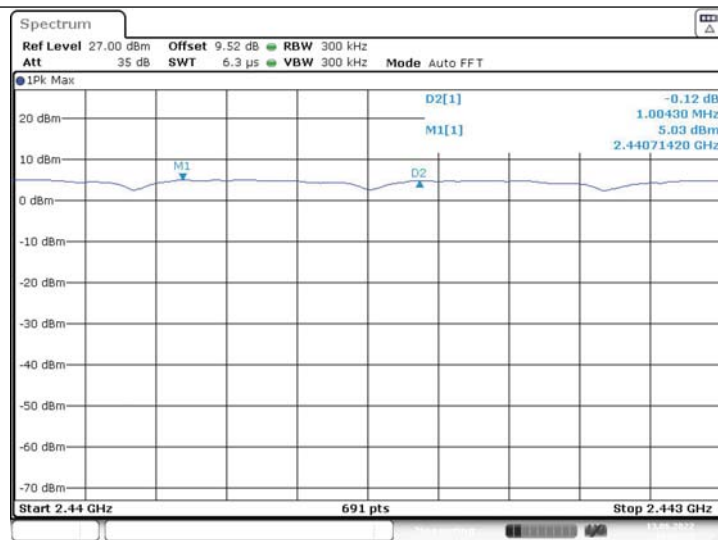
### 6.3.1 Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|----------------|-------------|--------------|---------|
| DH5      | Ant1    | Hop            | 1.004       | $\geq 0.970$ | PASS    |
| 2DH5     | Ant1    | Hop            | 1.004       | $\geq 0.893$ | PASS    |
| 3DH5     | Ant1    | Hop            | 1.004       | $\geq 0.867$ | PASS    |



## 6.3.2 Test Graphs





Date: 13.JUN.2022 16:52:23



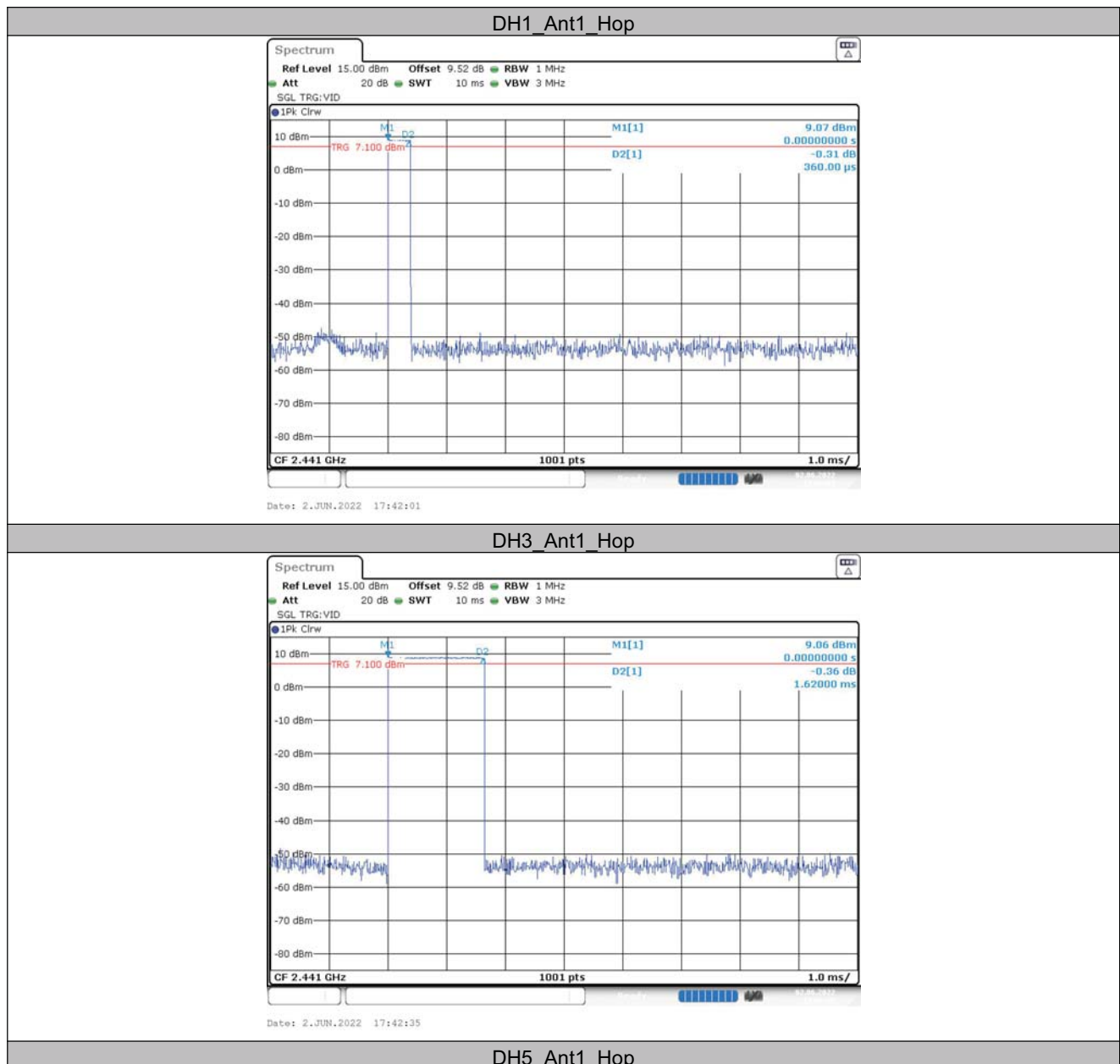
## 6.4 Dell Time of Each Channel

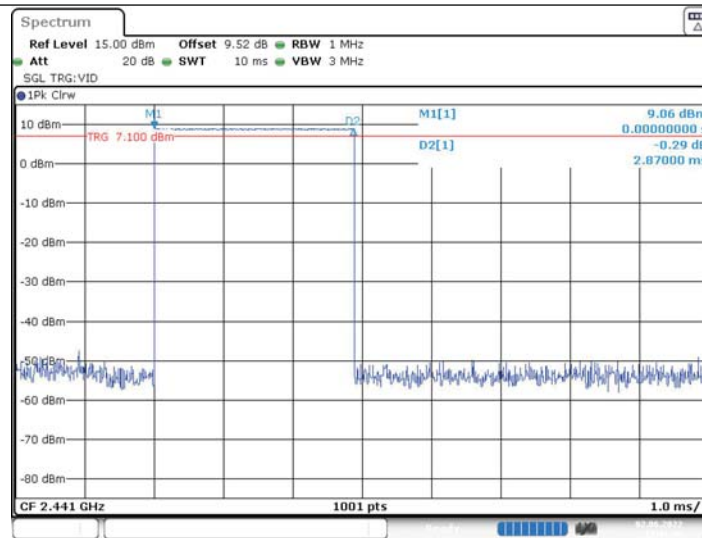
### 6.4.1 Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop            | 0.36               | 320                | 0.115     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop            | 1.62               | 160                | 0.259     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop            | 2.87               | 106.67             | 0.306     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop            | 0.37               | 320                | 0.118     | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop            | 1.62               | 160                | 0.259     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop            | 2.87               | 106.67             | 0.306     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop            | 0.37               | 320                | 0.118     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop            | 1.63               | 160                | 0.261     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop            | 2.87               | 106.67             | 0.306     | ≤0.4     | PASS    |



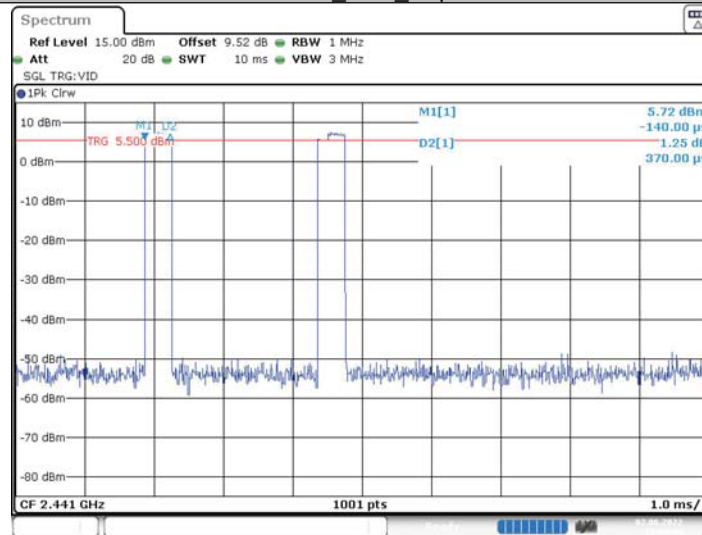
## 6.4.1 Test Graphs





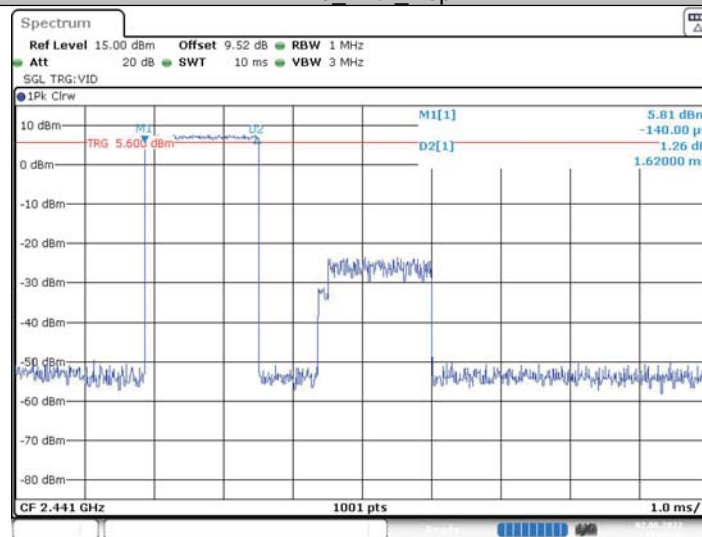
Date: 2.JUN.2022 17:41:08

## 2DH1\_Ant1\_Hop



Date: 2.JUN.2022 17:44:54

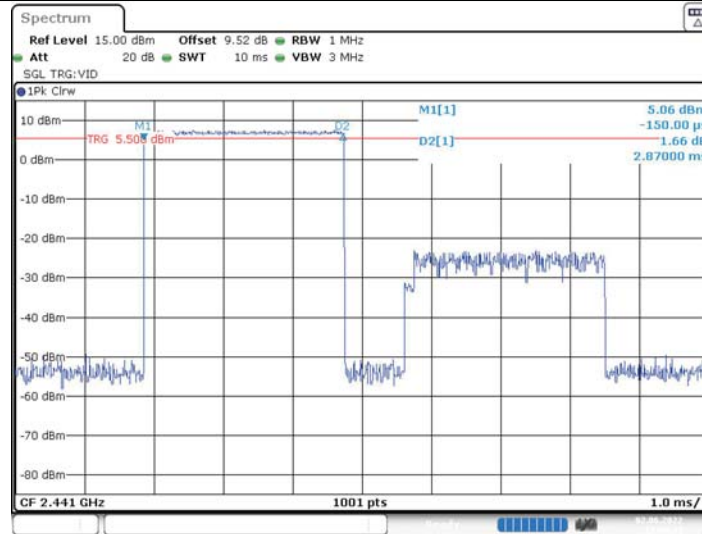
## 2DH3\_Ant1\_Hop



Date: 2.JUN.2022 17:45:30

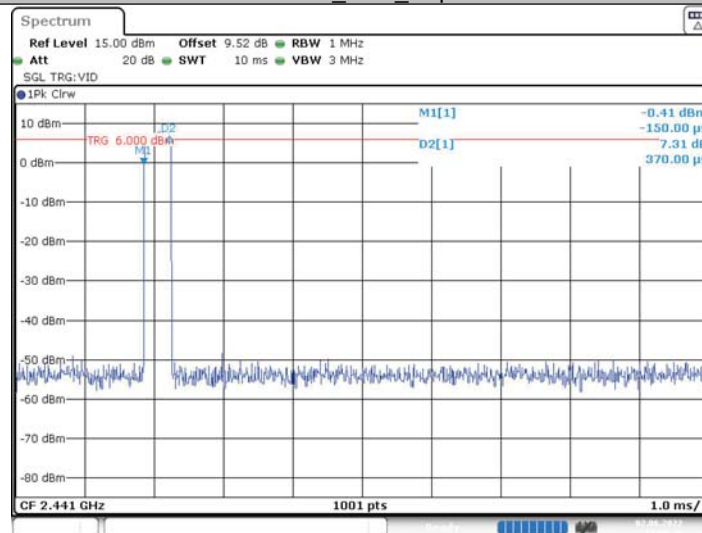


## 2DH5\_Ant1\_Hop



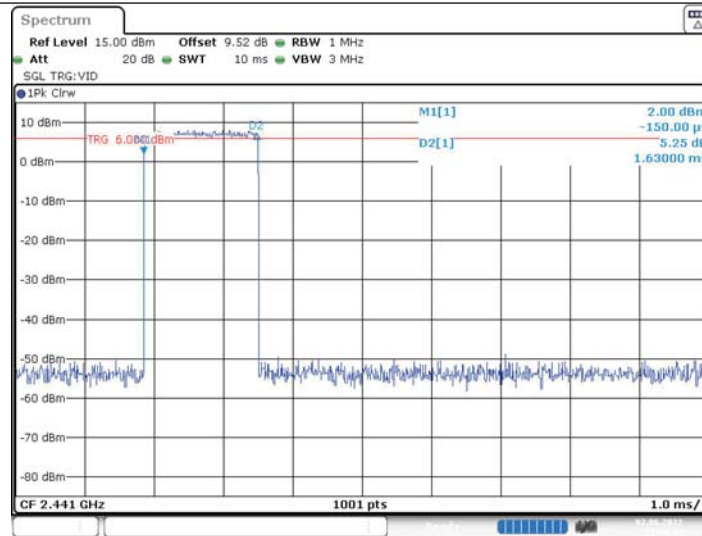
Date: 2.JUN.2022 17:44:31

## 3DH1\_Ant1\_Hop



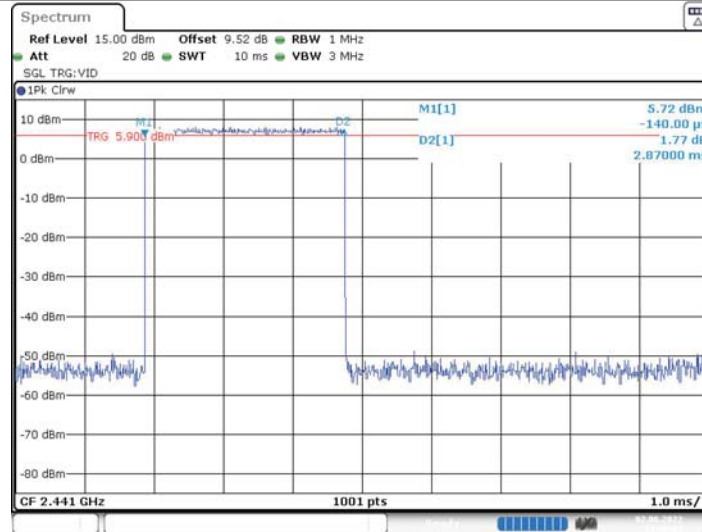
Date: 2.JUN.2022 17:49:36

## 3DH3\_Ant1\_Hop



Date: 2.JUN.2022 17:50:33

## 3DH5\_Ant1\_Hop



Date: 2.JUN.2022 17:47:01



## 6.5 Number of hopping channels

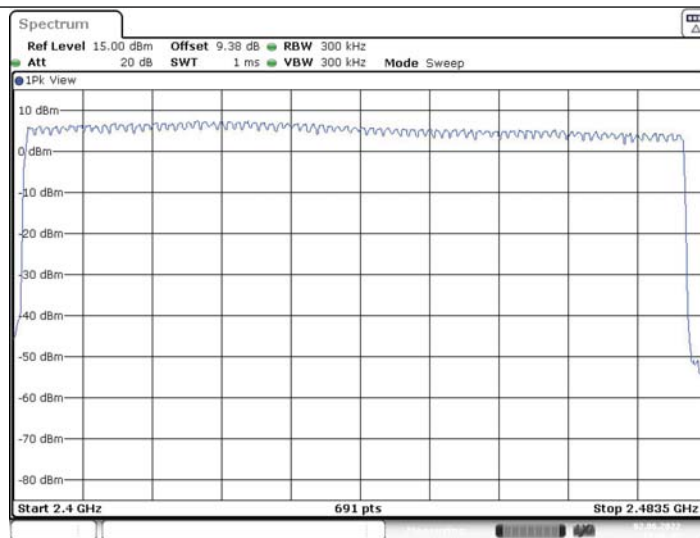
### 6.5.1 Test Result

| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | Hop            | 79          | $\geq 15$  | PASS    |
| 2DH5     | Ant1    | Hop            | 79          | $\geq 15$  | PASS    |
| 3DH5     | Ant1    | Hop            | 79          | $\geq 15$  | PASS    |



## 6.5.2 Test Graphs





Date: 2.JUN.2022 17:46:47



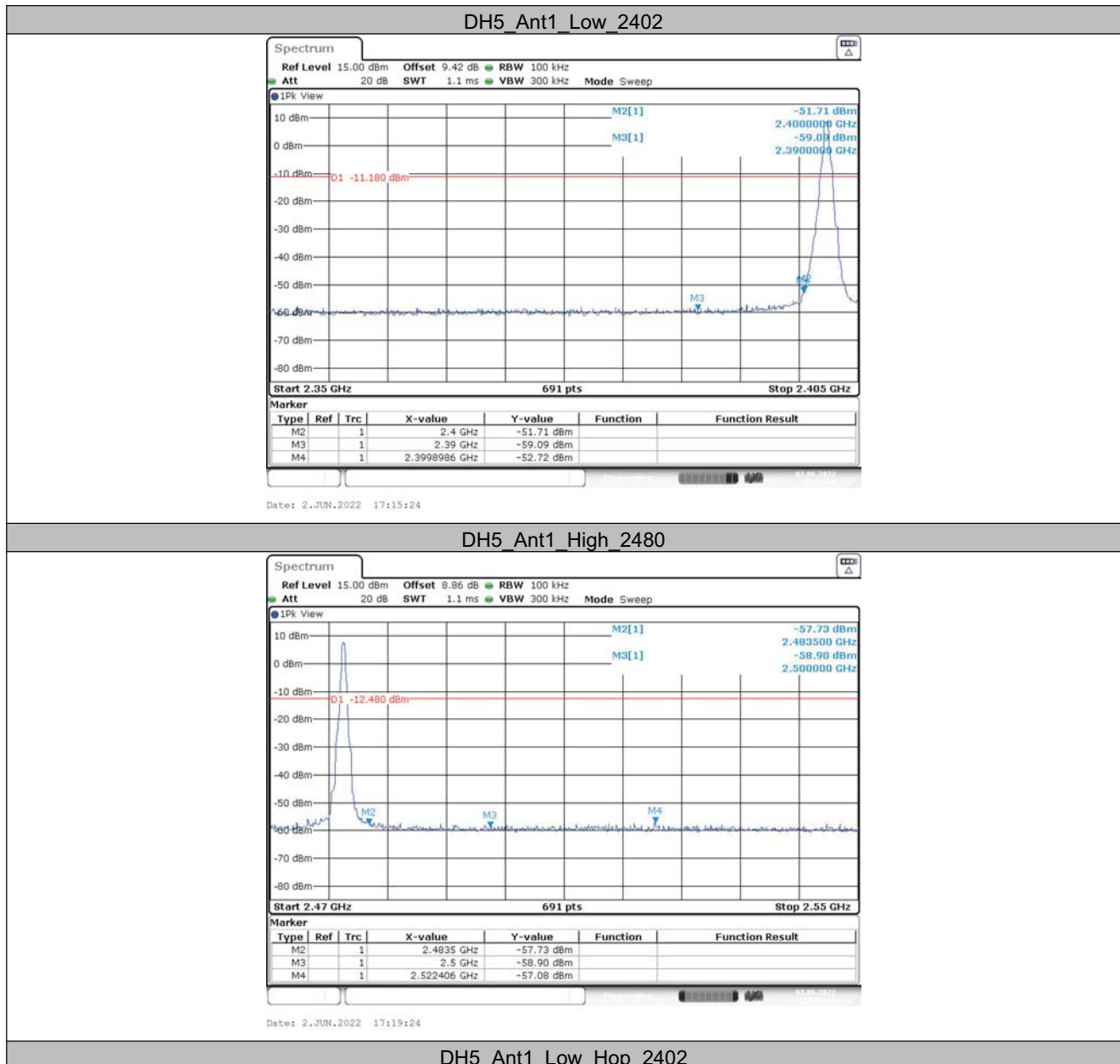
## 6.6 Band edge measurements

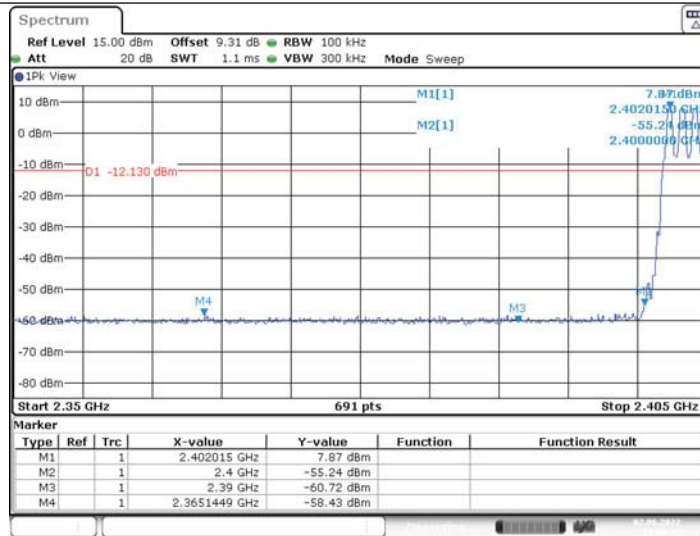
### 6.6.1 Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low    | 2402           | 8.82           | -52.72       | ≤-11.18     | PASS    |
|          |         | High   | 2480           | 7.52           | -57.08       | ≤-12.48     | PASS    |
|          |         | Low    | Hop_2402       | 7.87           | -58.43       | ≤-12.13     | PASS    |
|          |         | High   | Hop_2480       | 7.87           | -57.31       | ≤-12.13     | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | 5.54           | -45.37       | ≤-14.46     | PASS    |
|          |         | High   | 2480           | 2.87           | -57.31       | ≤-17.13     | PASS    |
|          |         | Low    | Hop_2402       | 5.28           | -58.23       | ≤-14.72     | PASS    |
|          |         | High   | Hop_2480       | 2.68           | -56.13       | ≤-17.32     | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | 5.42           | -45.08       | ≤-14.58     | PASS    |
|          |         | High   | 2480           | 2.89           | -57.02       | ≤-17.11     | PASS    |
|          |         | Low    | Hop_2402       | 4.62           | -58.07       | ≤-15.38     | PASS    |
|          |         | High   | Hop_2480       | 3.26           | -57.34       | ≤-16.74     | PASS    |

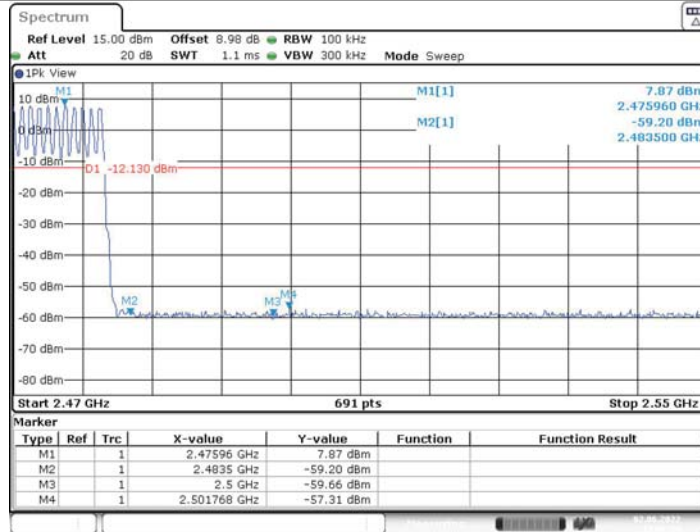


## 6.6.2 Test Graphs

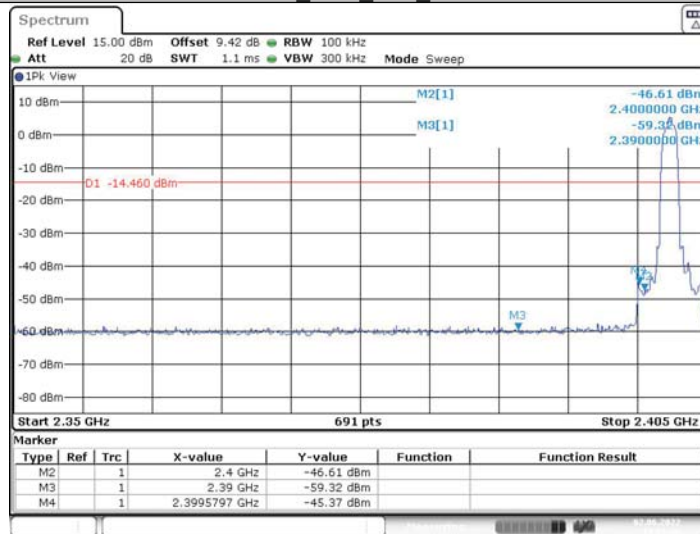




DH5\_Ant1\_High\_Hop\_2480

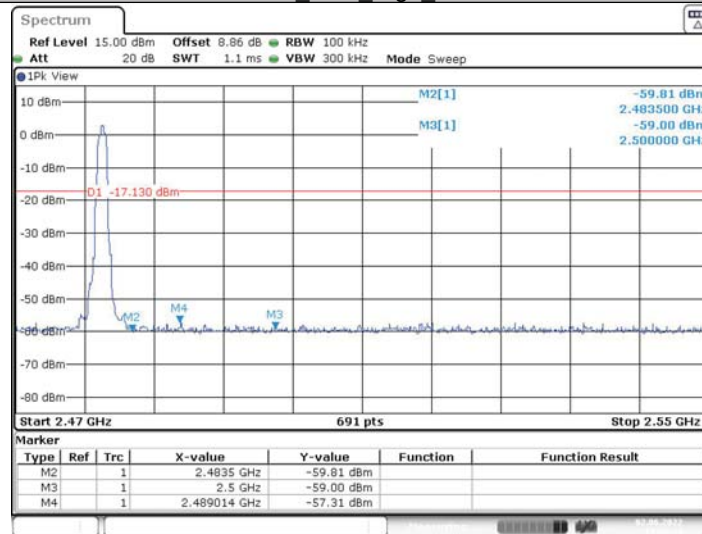


2DH5\_Ant1\_Low\_2402

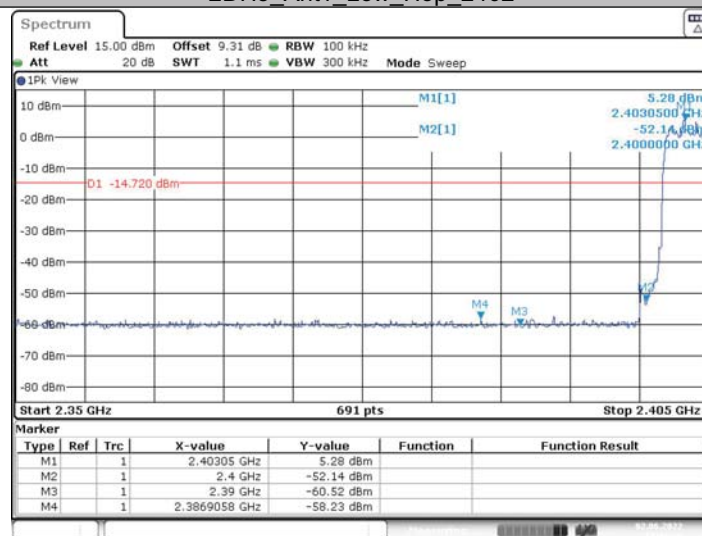




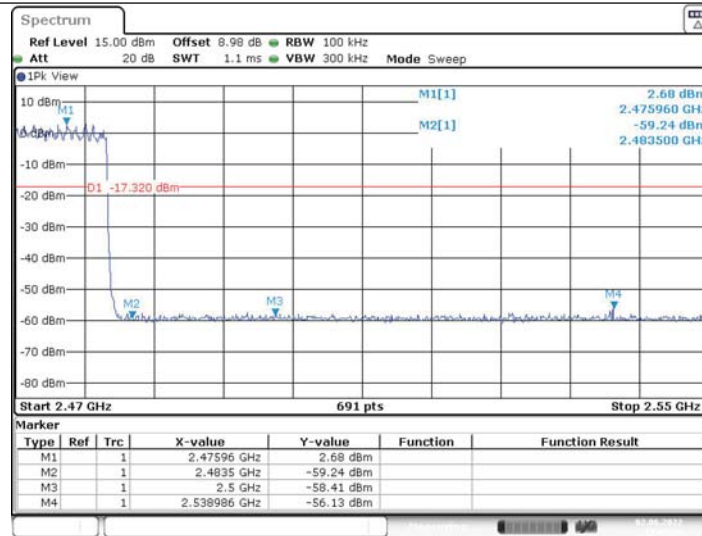
## 2DH5\_Ant1\_High\_2480



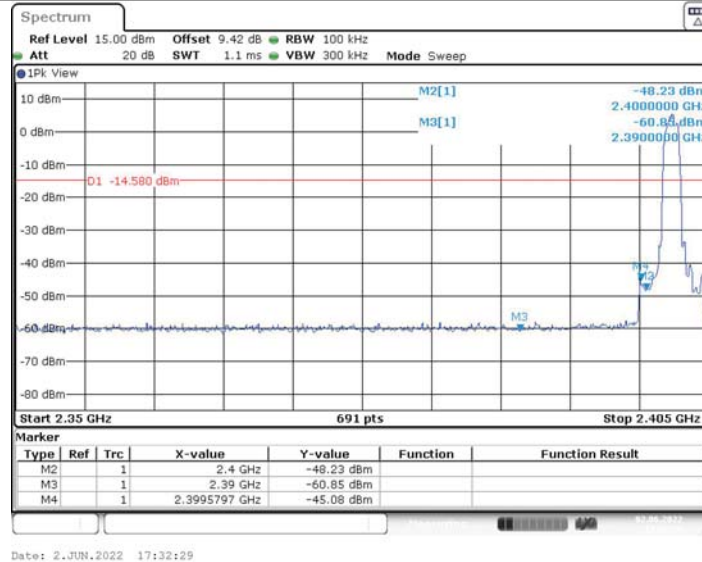
## 2DH5\_Ant1\_Low\_Hop\_2402



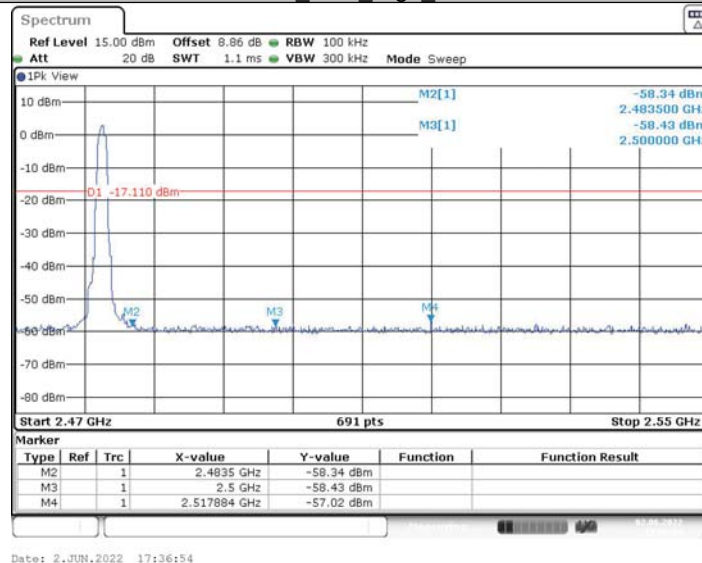
## 2DH5\_Ant1\_High\_Hop\_2480



3DH5\_Ant1\_Low\_2402

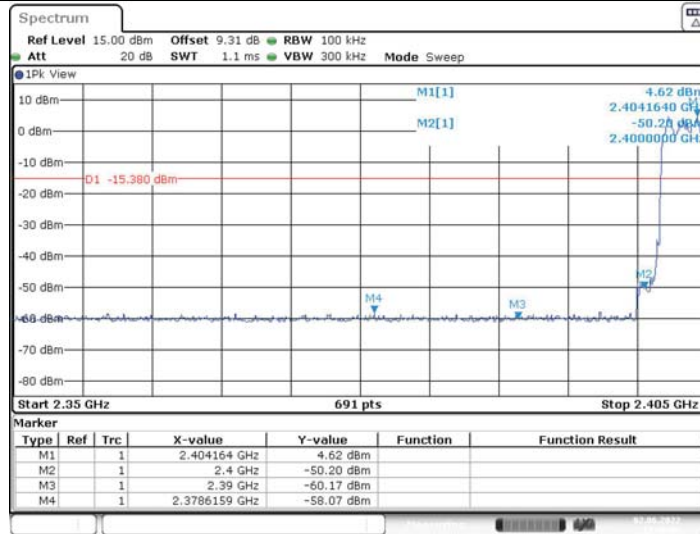


3DH5\_Ant1\_High\_2480

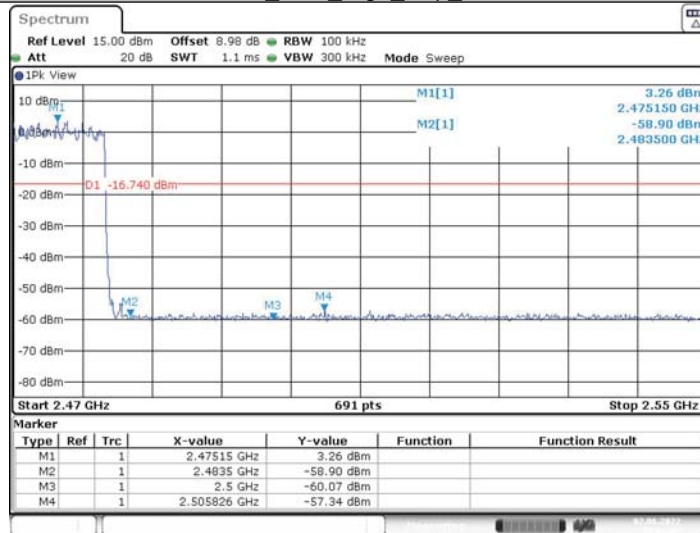




## 3DH5\_Ant1\_Low\_Hop\_2402



## 3DH5\_Ant1\_High\_Hop\_2480





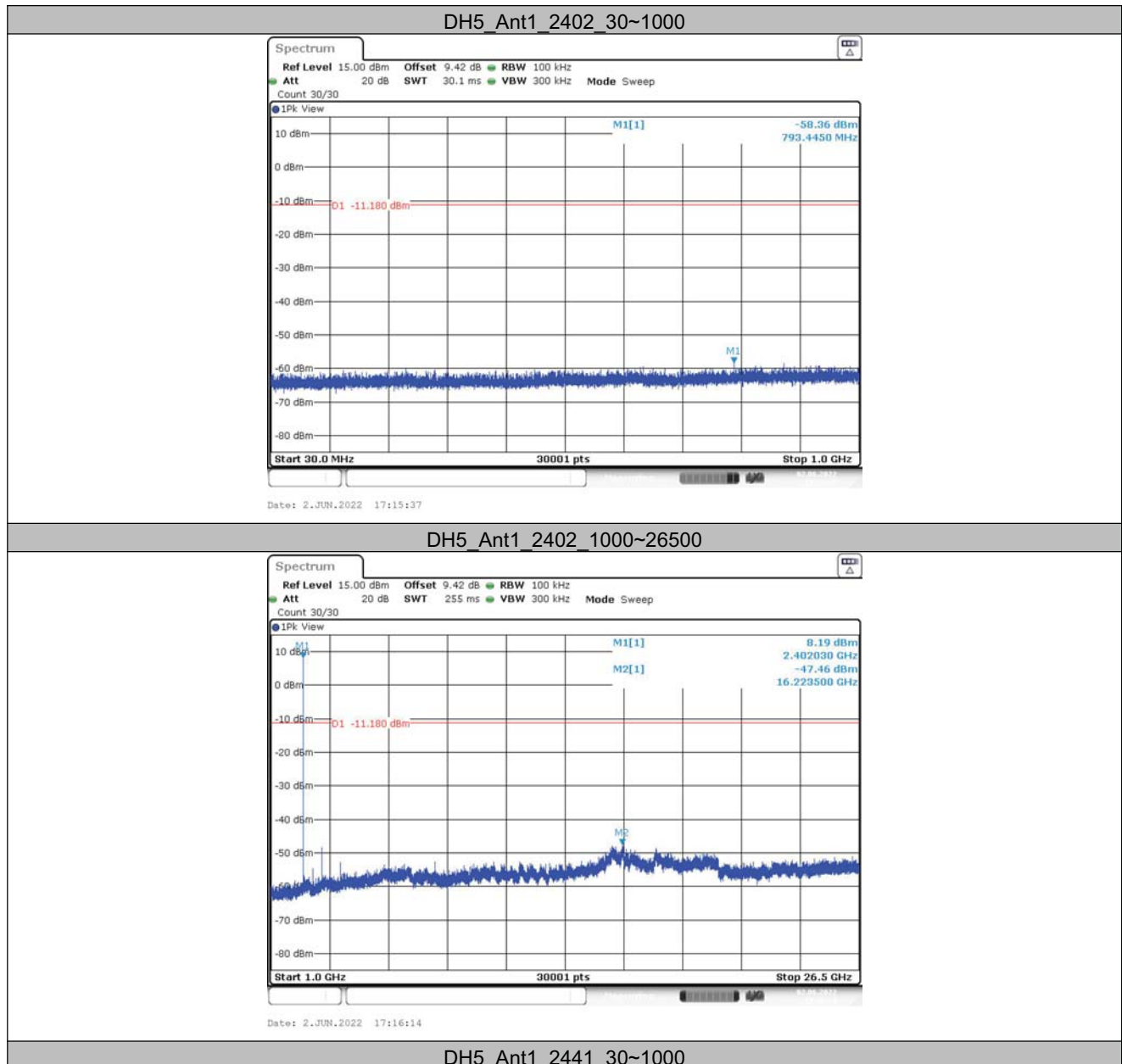
## 6.7 Out of band Emission Measurement

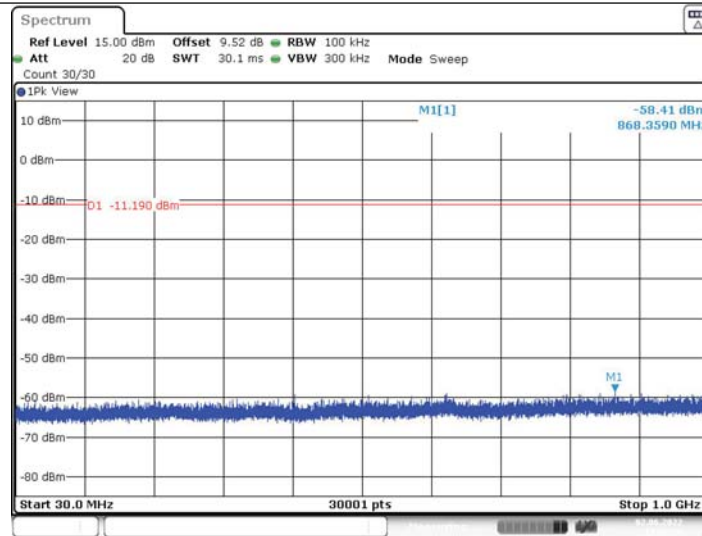
### 6.7.1 Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402           | 30~1000         | 8.82           | -58.36       | ≤-11.18     | PASS    |
|          |         |                | 1000~26500      | 8.82           | -47.46       | ≤-11.18     | PASS    |
|          |         | 2441           | 30~1000         | 8.81           | -58.41       | ≤-11.19     | PASS    |
|          |         |                | 1000~26500      | 8.81           | -46.46       | ≤-11.19     | PASS    |
|          |         | 2480           | 30~1000         | 7.52           | -58.75       | ≤-12.48     | PASS    |
|          |         |                | 1000~26500      | 7.52           | -48.22       | ≤-12.48     | PASS    |
| 2DH5     | Ant1    | 2402           | 30~1000         | 5.54           | -58.73       | ≤-14.46     | PASS    |
|          |         |                | 1000~26500      | 5.54           | -47.3        | ≤-14.46     | PASS    |
|          |         | 2441           | 30~1000         | 5.52           | -58.65       | ≤-14.48     | PASS    |
|          |         |                | 1000~26500      | 5.52           | -47.41       | ≤-14.48     | PASS    |
|          |         | 2480           | 30~1000         | 2.87           | -59.33       | ≤-17.13     | PASS    |
|          |         |                | 1000~26500      | 2.87           | -48.19       | ≤-17.13     | PASS    |
| 3DH5     | Ant1    | 2402           | 30~1000         | 5.42           | -58.29       | ≤-14.58     | PASS    |
|          |         |                | 1000~26500      | 5.42           | -47.35       | ≤-14.58     | PASS    |
|          |         | 2441           | 30~1000         | 5.52           | -58.53       | ≤-14.48     | PASS    |
|          |         |                | 1000~26500      | 5.52           | -47.13       | ≤-14.48     | PASS    |
|          |         | 2480           | 30~1000         | 2.89           | -59.48       | ≤-17.11     | PASS    |
|          |         |                | 1000~26500      | 2.89           | -47.86       | ≤-17.11     | PASS    |



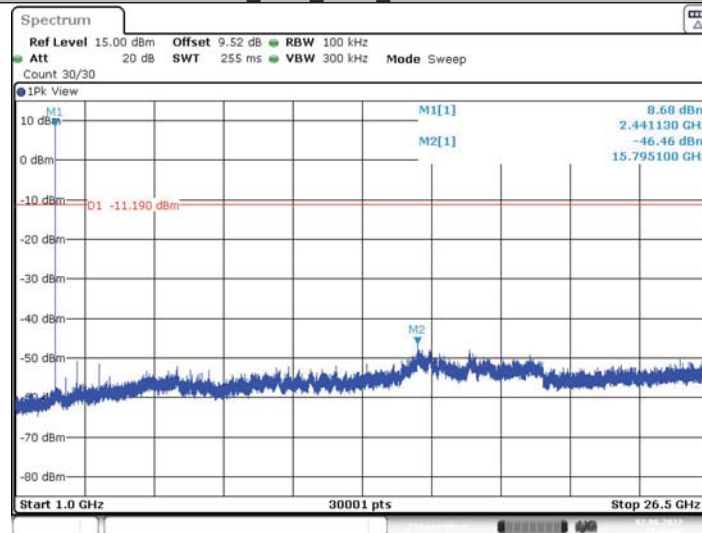
## 6.7.1 Test Graphs





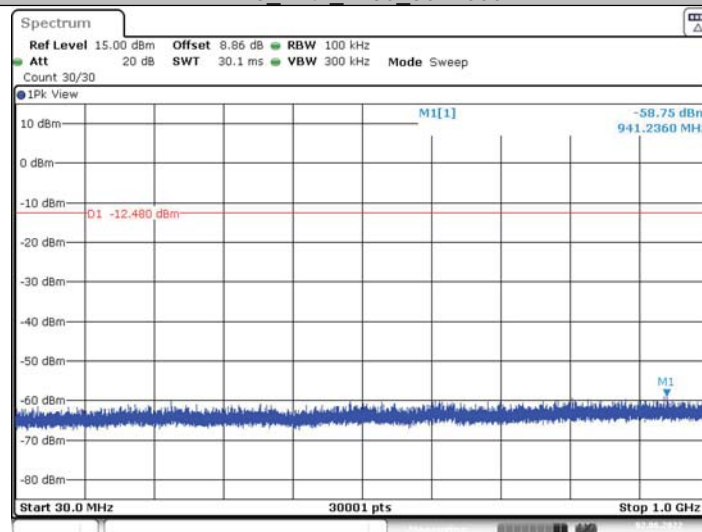
Date: 2.JUN.2022 17:17:29

DH5\_Ant1\_2441\_1000~26500



Date: 2.JUN.2022 17:18:06

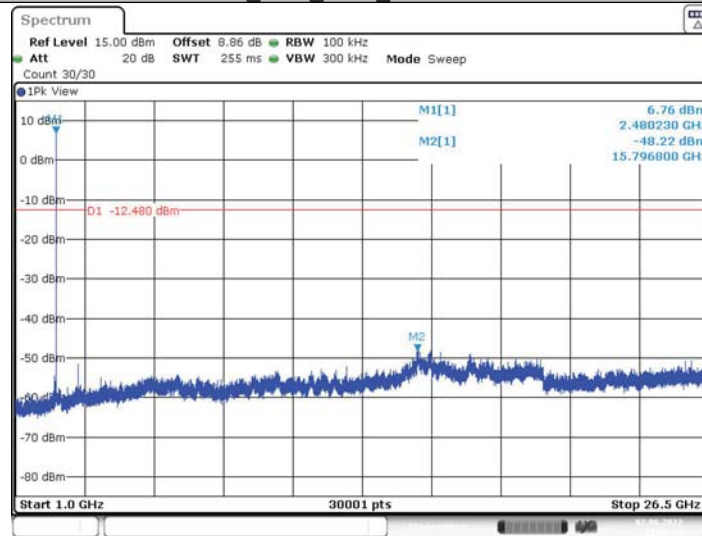
DH5\_Ant1\_2480\_30~1000



Date: 2.JUN.2022 17:19:38

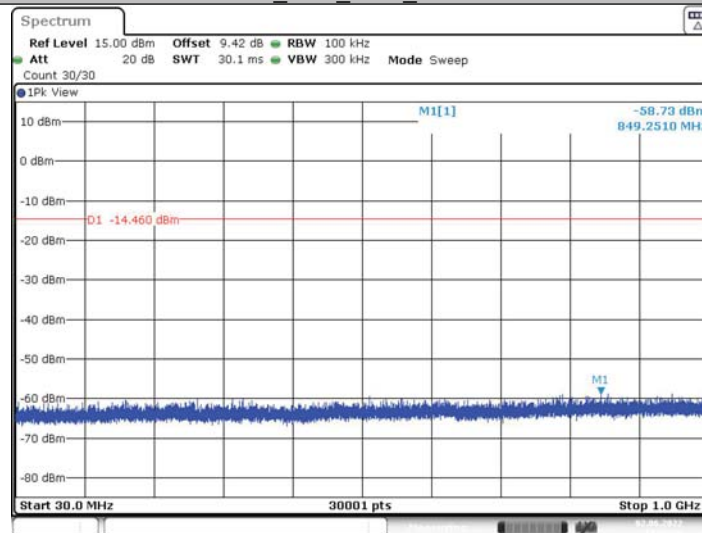


## DH5\_Ant1\_2480\_1000~26500



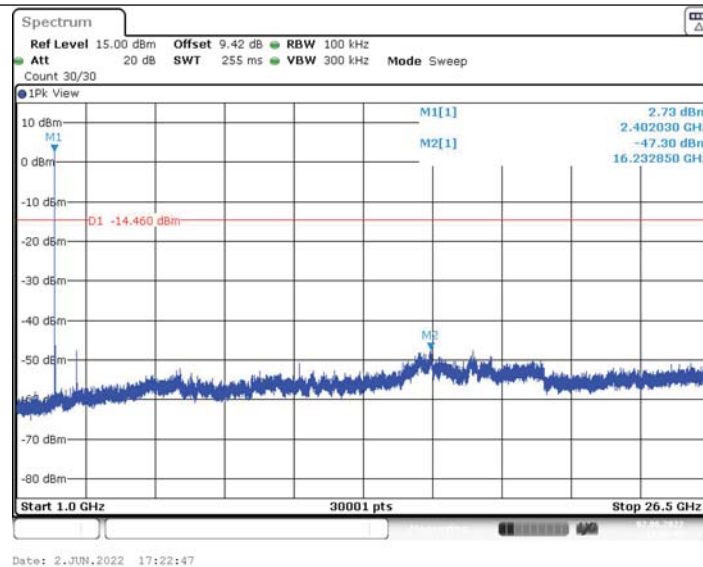
Date: 2.JUN.2022 17:20:15

## 2DH5\_Ant1\_2402\_30~1000

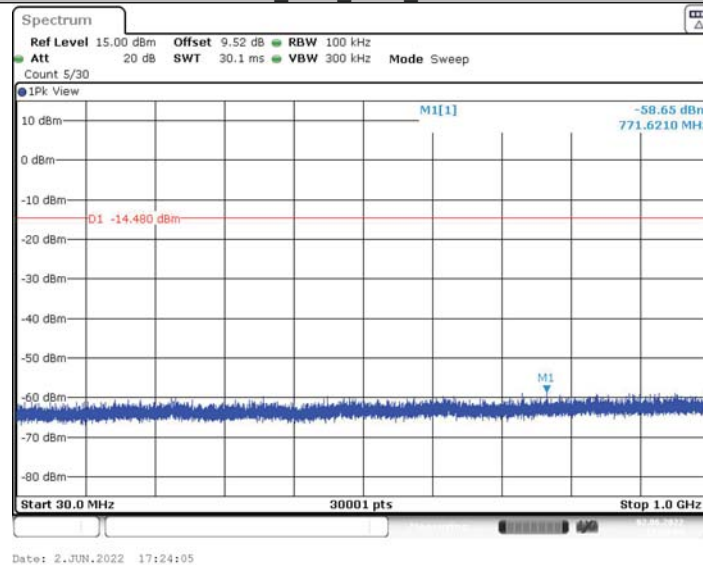


Date: 2.JUN.2022 17:22:10

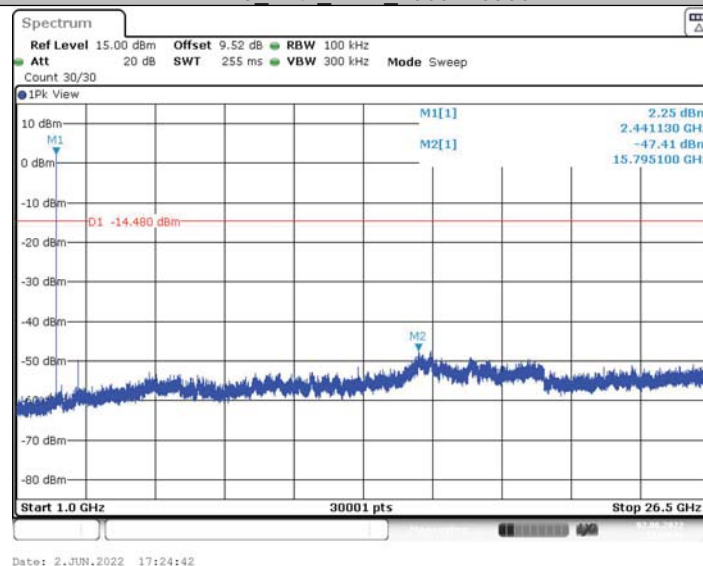
## 2DH5\_Ant1\_2402\_1000~26500



2DH5\_Ant1\_2441\_30~1000

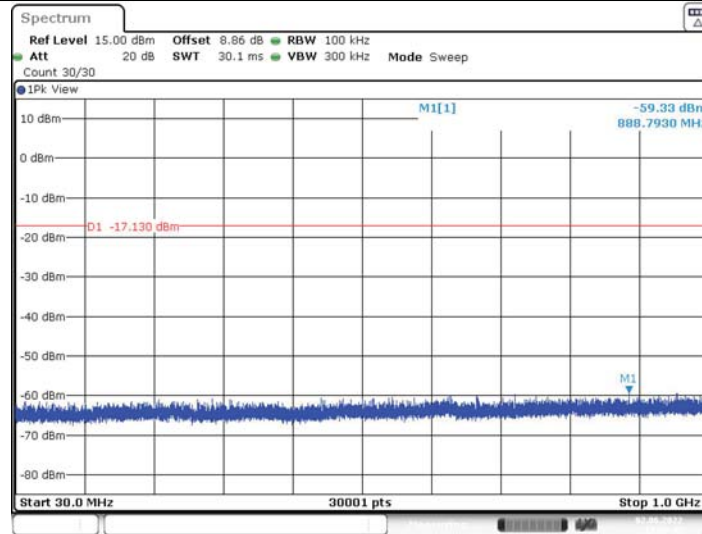


2DH5\_Ant1\_2441\_1000~26500



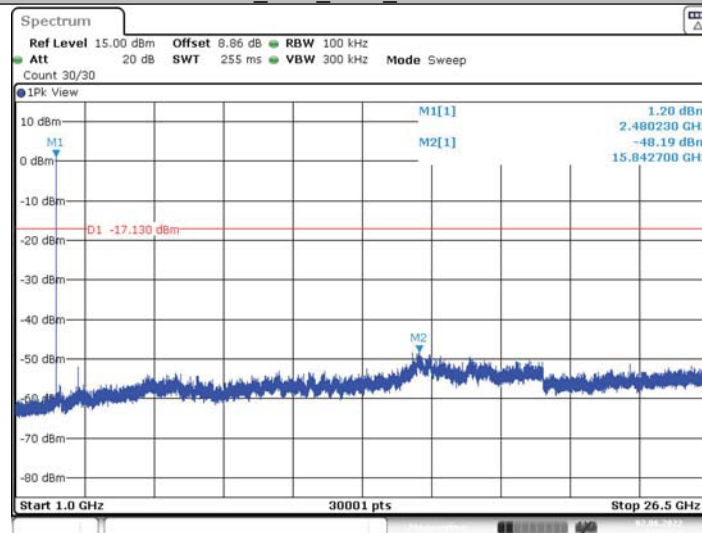


## 2DH5\_Ant1\_2480\_30~1000



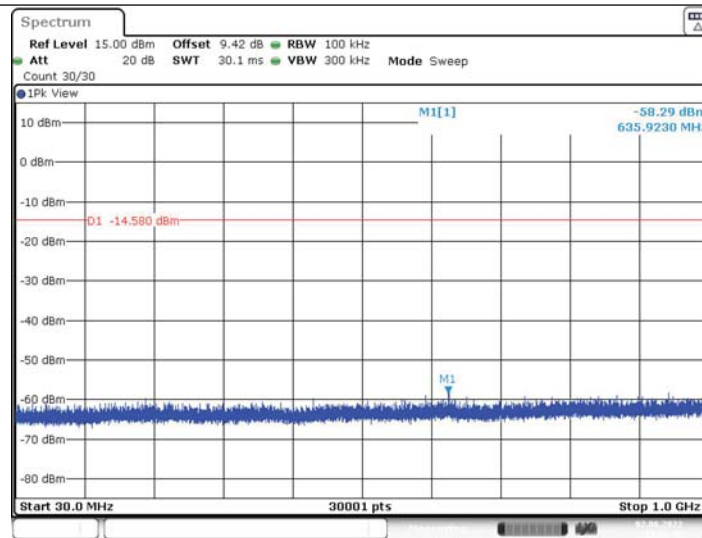
Date: 2.JUN.2022 17:28:47

## 2DH5\_Ant1\_2480\_1000~26500



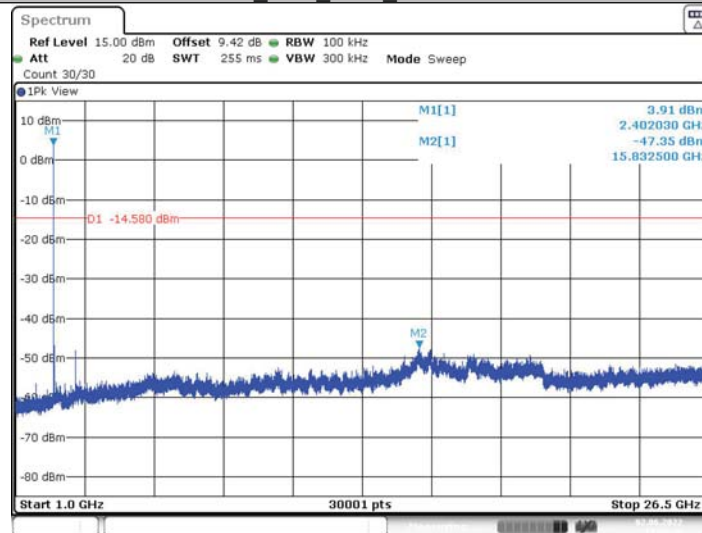
Date: 2.JUN.2022 17:29:24

## 3DH5\_Ant1\_2402\_30~1000



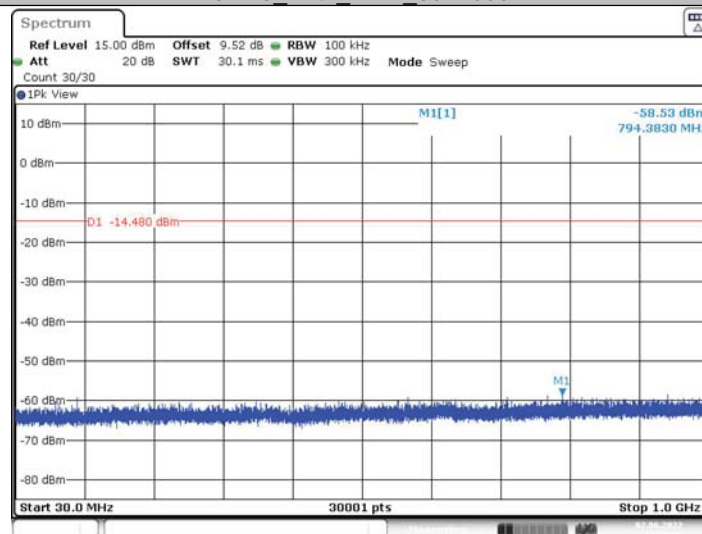
Date: 2.JUN.2022 17:32:42

## 3DH5\_Ant1\_2402\_1000~26500



Date: 2.JUN.2022 17:33:19

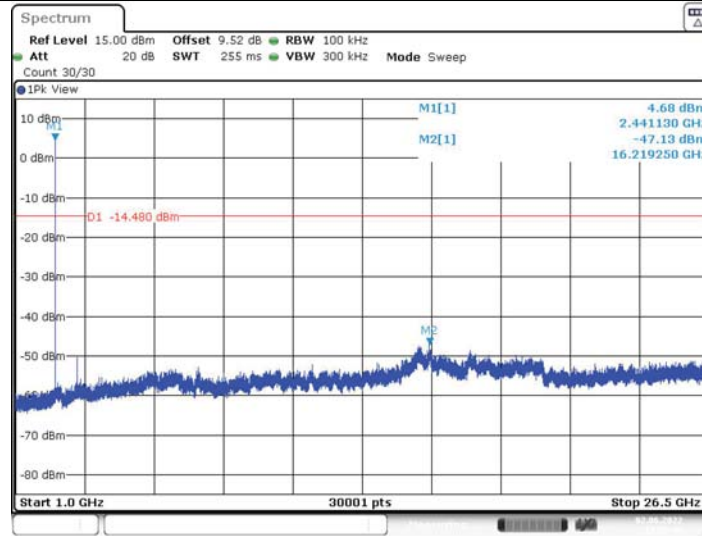
## 3DH5\_Ant1\_2441\_30~1000



Date: 2.JUN.2022 17:35:09

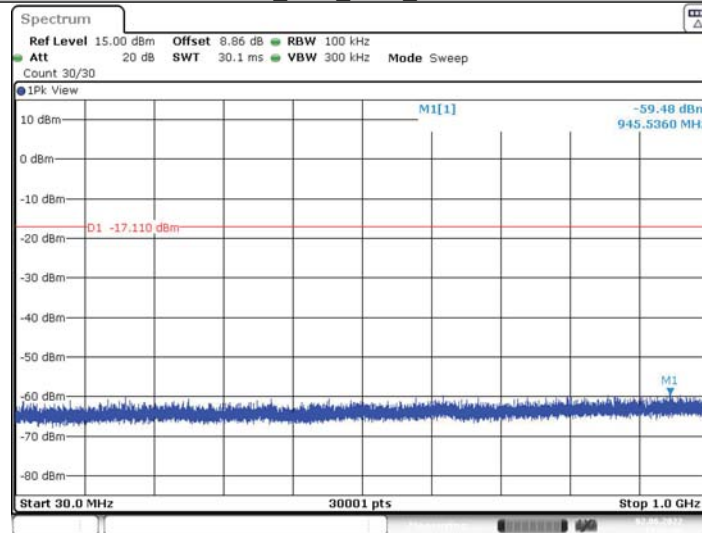


## 3DH5\_Ant1\_2441\_1000~26500



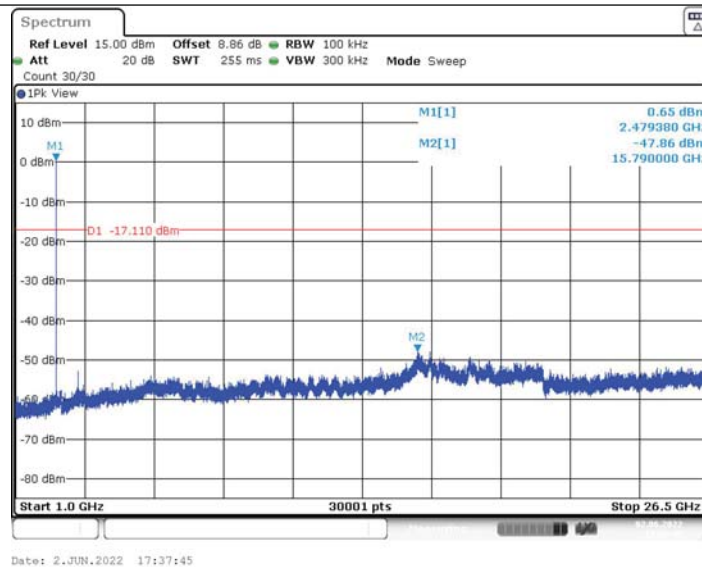
Date: 2.JUN.2022 17:35:46

## 3DH5\_Ant1\_2480\_30~1000



Date: 2.JUN.2022 17:37:08

## 3DH5\_Ant1\_2480\_1000~26500





## 6.8 Occupied Channel Bandwidth

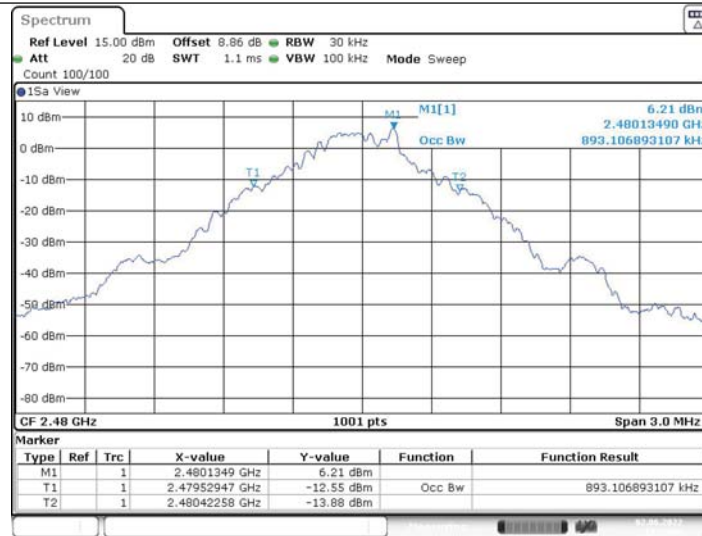
### 6.8.1 Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.893     | 2401.544 | 2402.438 | ---        | ---     |
|          |         | 2441           | 0.89      | 2440.538 | 2441.429 | ---        | ---     |
|          |         | 2480           | 0.893     | 2479.529 | 2480.423 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.19      | 2401.398 | 2402.587 | ---        | ---     |
|          |         | 2441           | 1.193     | 2440.389 | 2441.581 | ---        | ---     |
|          |         | 2480           | 1.19      | 2479.383 | 2480.572 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.184     | 2401.401 | 2402.584 | ---        | ---     |
|          |         | 2441           | 1.187     | 2440.392 | 2441.578 | ---        | ---     |
|          |         | 2480           | 1.184     | 2479.386 | 2480.569 | ---        | ---     |



## 6.8.2 Test Graphs





2DH5\_Ant1\_2402

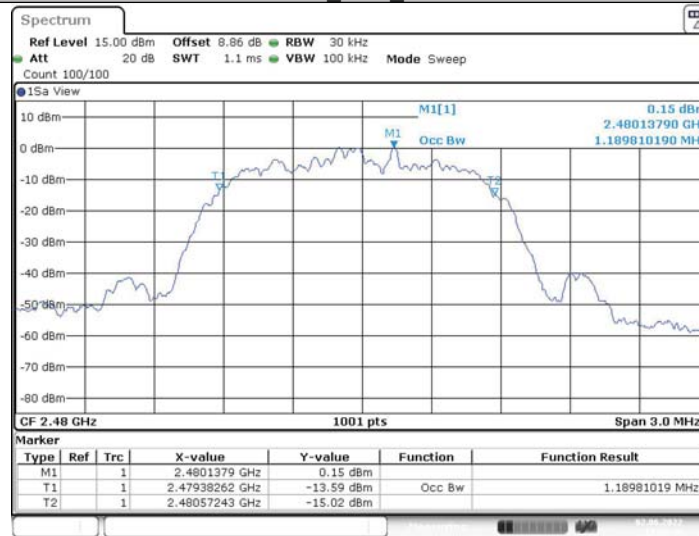


2DH5\_Ant1\_2441

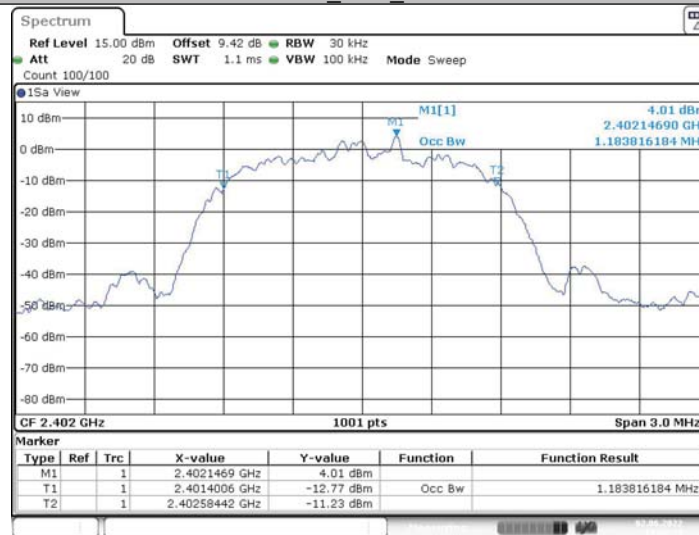




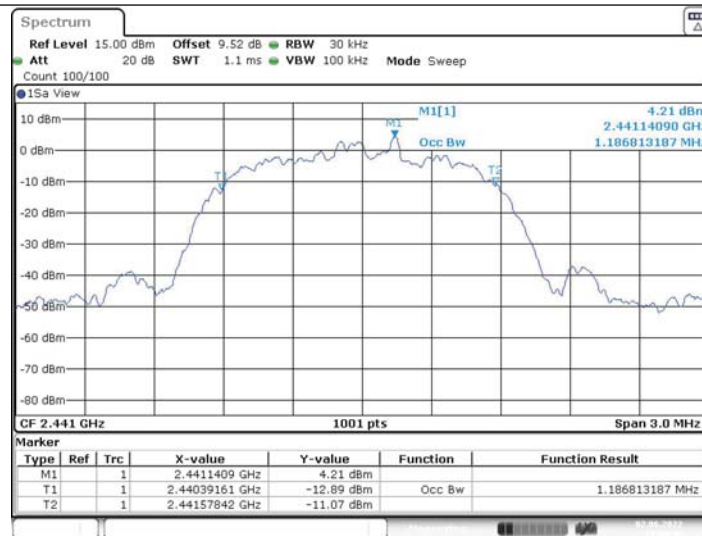
## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402

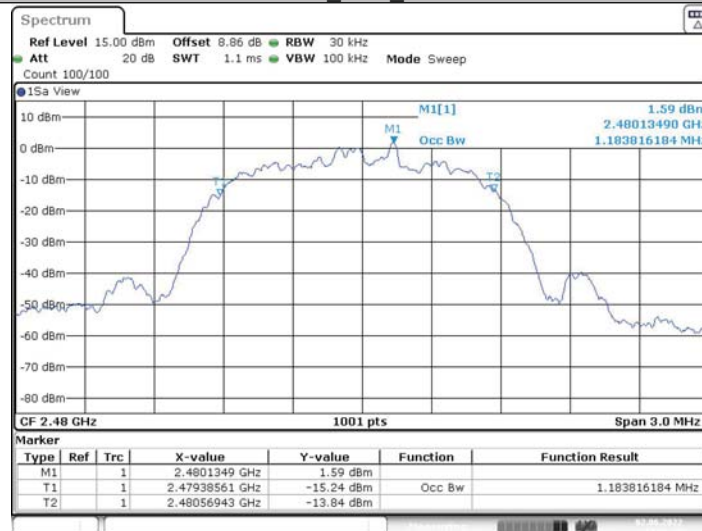


## 3DH5\_Ant1\_2441



Date: 2.JUN.2022 17:34:48

## 3DH5\_Ant1\_2480



Date: 2.JUN.2022 17:36:37



## Important

- (1) The test report is valid with the official seal of the laboratory and the signatures of Test engineer, Author and Reviewer simultaneously.
- (2) The test report is invalid if altered.
- (3) Any photocopies or part photocopies in the test report are forbidden without the written permission from the laboratory.
- (4) Objections to the test report must be submitted to the laboratory within 15 days.
- (5) Generally, commission test is responsible for the tested samples only.
- (6) Any photocopies or part photocopies of the test report are forbidden without the written permission from CVC;

Address of the laboratory:

CVC Testing Technology Co., Ltd.

Address: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China

Post Code: 510663      Tel: 020-32293888

FAX: 020-32293889      E-mail: [office@cvc.org.cn](mailto:office@cvc.org.cn)