



# FCC RADIO TEST REPORT

Applicant : Micro-Star Int'l Co.,Ltd.

Address : No.69, Lide St., Zhonghe Dist. New Taipei City 235  
Taiwan

Equipment : Wireless Mouse

Model No. : MS-8ZBG

Trade Name : msi

FCC ID : I4L-MS-8ZBG

## I HEREBY CERTIFY THAT :

The sample was received on Jun. 16, 2025 and the testing was completed on Jun. 25, 2025 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





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### History of this test report

| Report No.       | Issued Date   | Description |
|------------------|---------------|-------------|
| 25060278-TRFCC01 | Jul. 16, 2025 | Original    |
|                  |               |             |
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|                  |               |             |



## 1. Summary of Test Procedure and Test Results

### 1.1 Applicable Standards

**ANSI C63.10:2013**

**FCC Rules and Regulations Part 15 Subpart C §15.247**

| FCC Rule         | Description of Test                | Result |
|------------------|------------------------------------|--------|
| 15.203           | . Antenna Requirement              | PASS   |
| 15.207           | . AC Power Line Conducted Emission | PASS   |
| 15.209<br>15.205 | . Radiated Spurious Emission       | PASS   |
| 15.247(d)        | . Conducted Spurious Emission      | PASS   |
| 15.247(a)(2)     | . 6dB Bandwidth                    | PASS   |
| 15.247(b)        | . Maximum Output Power             | PASS   |
| 15.247(e)        | . Power Spectral Density           | PASS   |
| 2.1091           | . Radio Frequency Exposure         | PASS   |

\*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

\*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(25060278-TEFV01).



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

|                           |                |
|---------------------------|----------------|
| Operation Frequency Range | 2400-2483.5MHz |
| Center Frequency Range    | 2408-2474MHz   |
| Modulation Type           | GFSK           |
| Modulation Technology     | DTS            |
| Data Rate                 | 1Mbps          |
| Antenna Type              | PCB Antenna    |
| Antenna Gain              | 2.08 dBi       |

Note: For more details, please refer to the User's manual of the EUT.



## 2.2 Carrier Frequency of Channels

| Channel    | Frequency (MHz) | Channel    | Frequency (MHz) |
|------------|-----------------|------------|-----------------|
| <b>*01</b> | <b>2408</b>     | 18         | 2442            |
| 02         | 2410            | 19         | 2444            |
| 03         | 2412            | 20         | 2446            |
| 04         | 2414            | 21         | 2448            |
| 05         | 2416            | 22         | 2450            |
| 06         | 2418            | 23         | 2452            |
| 07         | 2420            | 24         | 2454            |
| 08         | 2422            | 25         | 2456            |
| 09         | 2424            | 26         | 2458            |
| 10         | 2426            | 27         | 2460            |
| 11         | 2428            | 28         | 2462            |
| 12         | 2430            | 29         | 2464            |
| 13         | 2432            | 30         | 2466            |
| 14         | 2434            | 31         | 2468            |
| 15         | 2436            | 32         | 2470            |
| 16         | 2438            | 33         | 2472            |
| <b>*17</b> | <b>2440</b>     | <b>*34</b> | <b>2474</b>     |

Note: Channels remarked \* are selected to perform test.



## 2.3 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included Notebook and EUT for RF test.
- Uses hardware buttons to transmit and receive data via SRD.
- The following test modes were performed for the test:

| Conducted Emissions from the AC mains power ports                                    |                            |
|--------------------------------------------------------------------------------------|----------------------------|
| Test Mode                                                                            | Operating Description      |
| 1                                                                                    | GFSK Mode, From Adapter    |
| caused "Test Mode 1" generated the worst case, it was reported as the final data.    |                            |
| Radiation Emissions (30MHz ~ 1GHz)                                                   |                            |
| Test Mode                                                                            | Operating Description      |
| 1                                                                                    | GFSK Mode, From Adapter    |
| caused "Test Mode 1" generated the worst case, it was reported as the final data.    |                            |
| Radiation Emissions (1GHz ~ 25GHz)                                                   |                            |
| Test Mode                                                                            | Operating Description      |
| 1                                                                                    | GFSK (1Mbps), From Adapter |
| caused "Test Mode 1" generated the worst case, they were reported as the final data. |                            |

Note: There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

For AC Power Line Conducted Emission, AC 240V / 60Hz is worst case.

For Radiated Spurious Emission(9KHz ~30MHz & 30MHz ~ 1GHz), AC 120V / 60Hz is worst case.

| Modulation Type | TX CONFIGURATION |
|-----------------|------------------|
| GFSK (1Mbps)    | 1TX              |



## 2.4 Description of Test System

| Radiated Emissions |         |         |             |                        |
|--------------------|---------|---------|-------------|------------------------|
| Equipment          | Brand   | Model   | Length/Type | Power cord/Length/Type |
| Adapter            | Noratec | NT-K240 | N/A         | N/A                    |

| AC Power Line Conducted Emission |         |         |             |                        |
|----------------------------------|---------|---------|-------------|------------------------|
| Equipment                        | Brand   | Model   | Length/Type | Power cord/Length/Type |
| Adapter                          | Noratec | NT-K240 | N/A         | N/A                    |

**2.5 General Information of Test**

|                                               |                                                                                                                                                                                        |                  |  |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|
| Organization                                  | CerpPASS Technology Corp.                                                                                                                                                              |                  |  |
| <input checked="" type="checkbox"/> Test Site | CerpPASS Technology Corporation Test Laboratory<br>Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.)<br>Tel: +886-3-3226-888<br>Fax: +886-3-3226-881 |                  |  |
|                                               | FCC                                                                                                                                                                                    | TW1439, TW1079   |  |
|                                               | IC                                                                                                                                                                                     | 4934E-1, 4934E-2 |  |
|                                               |                                                                                                                                                                                        |                  |  |
| Frequency Range Investigated                  | Conducted: from 150kHz to 30 MHz<br>Radiation: from 30 MHz to 25,000MHz                                                                                                                |                  |  |
| Test Distance                                 | The test distance of radiated emission from antenna to EUT is 3 M.                                                                                                                     |                  |  |

| Test Item                        | Test Site  | Test period | Environmental Conditions | Tested By  |
|----------------------------------|------------|-------------|--------------------------|------------|
| RF Conducted                     | RFCON01-NK | 2025/06/25  | 26.3°C / 48%             | Leon Huang |
| Radiated Emissions               | 3M03-NK    | 2025/06/20  | 21.6°C / 57%             | Leon Huang |
| Radiated Emissions               | 3M03-NK    | 2025/06/23  | 23.1°C / 58%             | Leon Huang |
| AC Power Line Conducted Emission | CON02-NK   | 2025/06/20  | 21.5°C / 56%             | Leon Huang |



## 2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Item                         | Uncertainty |
|------------------------------------------|-------------|
| AC Power Line Conduction(150K~30MHz)     | ±3.2dB      |
| Radiated Spurious Emission(9KHz~30MHz)   | ±3.5dB      |
| Radiated Spurious Emission(30MHz~1GHz)   | ±5.1dB      |
| Radiated Spurious Emission(1GHz~40GHz)   | ±5.2dB      |
| Conducted Spurious Emission              | ±2.1dB      |
| 6dB Bandwidth                            | ±5.4%       |
| 20dB Bandwidth                           | ±4.4%       |
| Occupied Bandwidth                       | ±4.5%       |
| Peak Output Power(Conducted Power Meter) | ±1.1dB      |
| Dwell Time / Deactivation Time           | ±7.6%       |
| Power Spectral Density                   | ±2.0dB      |
| Duty Cycle                               | ±3.5%       |



### 3. Test Equipment and Ancillaries Used for Tests

|                                  |                              |                      |              |                  |            |
|----------------------------------|------------------------------|----------------------|--------------|------------------|------------|
| Test Item                        | Radiated Emissions           |                      |              |                  |            |
| Test Site                        | Semi Anechoic Room (3M03-NK) |                      |              |                  |            |
| Instrument                       | Manufacturer                 | Model No             | Serial No    | Calibration Date | Valid Date |
| Bilog Antenna                    | Sunol                        | JB1                  | A020514-2    | 2024/07/09       | 2025/07/08 |
| Active Loop Antenna              | EMCO                         | 6507                 | 00040855     | 2025/04/28       | 2026/04/27 |
| Horn Antenna                     | EMCO                         | 3116                 | 31974        | 2024/10/18       | 2025/10/17 |
| Double Ridged Guide Horn Antenna | RF SPAN                      | DRH18-E              | 210309A18-ES | 2024/08/28       | 2025/08/27 |
| Spectrum Analyzer                | ROHDE & SCHWARZ              | FSV 40-N             | 102151       | 2024/08/22       | 2025/08/21 |
| EMI Receiver                     | ROHDE & SCHWARZ              | ESCI                 | 101423       | 2024/07/16       | 2025/07/15 |
| Preamplifier                     | EMC INSTRUMENTS              | EMC0518A45SE         | 981069       | 2024/12/17       | 2025/12/16 |
| Preamplifier                     | EMC INSTRUMENTS              | EMC184045            | 980065       | 2024/10/15       | 2025/10/14 |
| Preamplifier                     | EM Electronics corp.         | EM330                | 60611        | 2025/03/28       | 2026/03/27 |
| Cable-4m(9k-3G)                  | EMEC                         | RG-223               | 18274M       | 2024/08/08       | 2025/08/07 |
| Cable-8m(10M-26.5G)              | HUBER SUHNER                 | SF126E               | 587396/126E  | 2024/10/14       | 2025/10/13 |
| Cable-3m(10M-26.5G)              | HUBER SUHNER                 | SF126E               | 587399/126E  | 2024/10/14       | 2025/10/13 |
| Cable-1m(10M-40G)                | HUBER SUHNER                 | SF102                | 804398/2     | 2024/10/14       | 2025/10/13 |
| Cable-1m(1G-26.5G)               | HUBER SUHNER                 | SF126E               | 589848/126E  | 2024/10/14       | 2025/10/13 |
| Cable-4m(30M-1G)                 | HUBER SUHNER                 | RG-214               | 02953M       | 2024/09/04       | 2025/09/03 |
| Cable-1m(30M-1G)                 | HUBER SUHNER                 | RG-214               | 05094M       | 2024/09/04       | 2025/09/03 |
| Cable-9m(30M-1G)                 | HUBER SUHNER                 | RG-214               | 00402M       | 2024/09/04       | 2025/09/03 |
| E3                               | AUDIX                        | v8.2014-8-6          | RK-000529    | NA               | NA         |
| High Pass Filter                 | Warison                      | WFIL-H3000-18000F-03 | WRJ5CFWC2J1  | 2024/07/03       | 2025/07/02 |
| Highpass Filter                  | WOKEN                        | WFIL-H7000-18000F-01 | WR377WC2B2   | 2024/10/15       | 2025/10/14 |

|                     |                 |              |            |                  |            |
|---------------------|-----------------|--------------|------------|------------------|------------|
| Test Item           | RF Conducted    |              |            |                  |            |
| Test Site           | RFCON01-NK      |              |            |                  |            |
| Instrument          | Manufacturer    | Model No     | Serial No  | Calibration Date | Valid Date |
| Spectrum Analyzer   | ROHDE & SCHWARZ | FSP 40       | 100047     | 2025/03/03       | 2026/03/02 |
| Attenuator          | KEYSIGHT        | 8491B        | MY39250703 | 2025/02/12       | 2026/02/11 |
| Cable-0.5m(30M-40G) | HUBER SUHNER    | SUCOFLEX 102 | 28420/2    | 2024/10/24       | 2025/10/23 |
| Power Meter         | Anritsu         | ML2495A      | 1224005    | 2025/02/12       | 2026/02/11 |
| Power Sensor        | Anritsu         | MA2411B      | 1207295    | 2025/02/12       | 2026/02/11 |
| Switch Box          | Theda           | 1-4          | TW5451159  | NA               | NA         |



|                    |                                  |             |           |                  |            |
|--------------------|----------------------------------|-------------|-----------|------------------|------------|
| Test Item          | AC Power Line Conducted Emission |             |           |                  |            |
| Test Site          | CON02-NK                         |             |           |                  |            |
| Instrument         | Manufacturer                     | Model No    | Serial No | Calibration Date | Valid Date |
| EMI Receiver       | ROHDE & SCHWARZ                  | ESCI        | 101423    | 2024/07/16       | 2025/07/15 |
| Two-Line V-Network | ROHDE & SCHWARZ                  | ENV216      | 102185    | 2024/08/27       | 2025/08/26 |
| Cable-4m(9k-3G)    | EMEC                             | RG-223      | 18274M    | 2024/08/08       | 2025/08/07 |
| E3                 | AUDIX                            | v8.2014-8-6 | RK-000536 | NA               | NA         |



## 4. Antenna Requirements

### 4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 4.2 Antenna Construction and Directional Gain

|              |             |
|--------------|-------------|
| Antenna Type | PCB Antenna |
| Antenna Gain | 2.08 dBi    |



## 5. Test of AC Power Line Conducted Emission

### 5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency (MHz) | Quasi Peak (dB $\mu$ V) | Average (dB $\mu$ V) |
|-----------------|-------------------------|----------------------|
| 0.15 – 0.5      | 66-56*                  | 56-46*               |
| 0.5 – 5.0       | 56                      | 46                   |
| 5.0 – 30.0      | 60                      | 50                   |

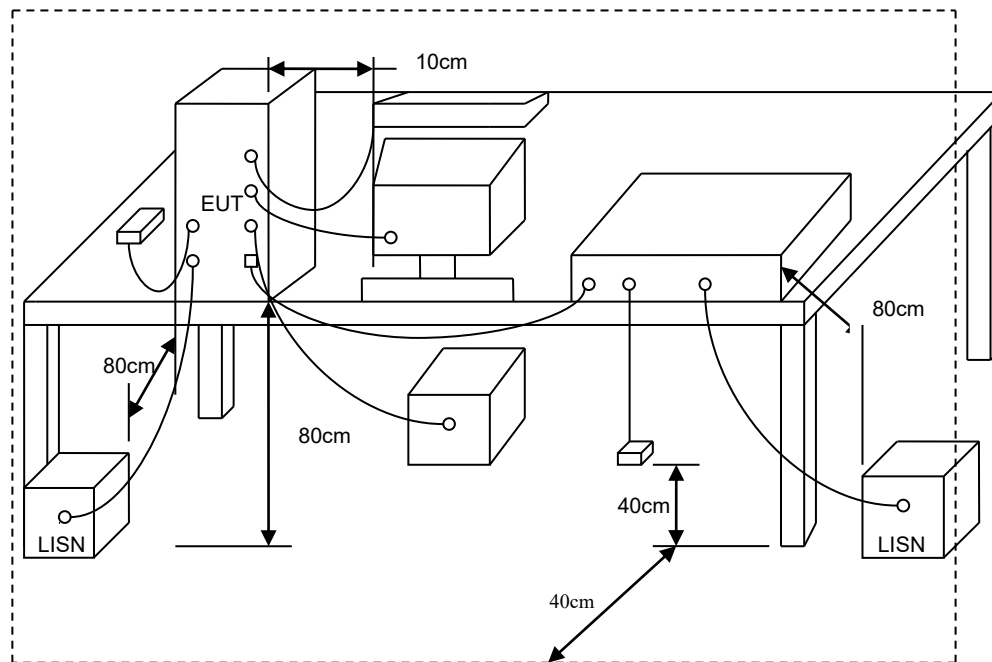
\*Decreases with the logarithm of the frequency.

### 5.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



### 5.3 Typical Test Setup

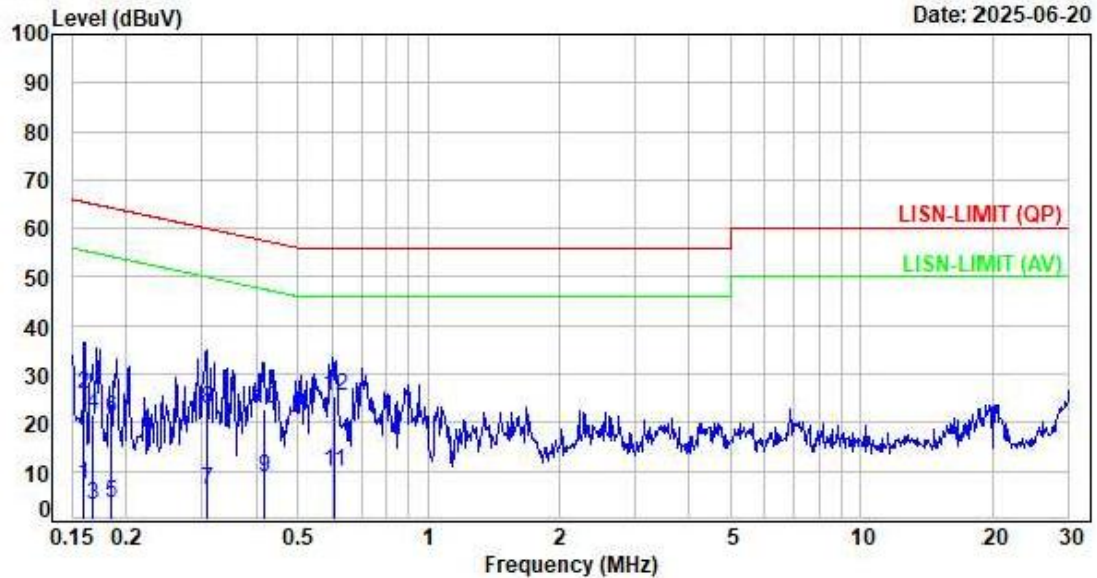




## 5.4 Test Result and Data

Test Mode : SRD 1TX 2474MHz 1Mbps  
Voltage : From Adapter(AC 240V/60Hz)  
Phase : Line

Data: 1



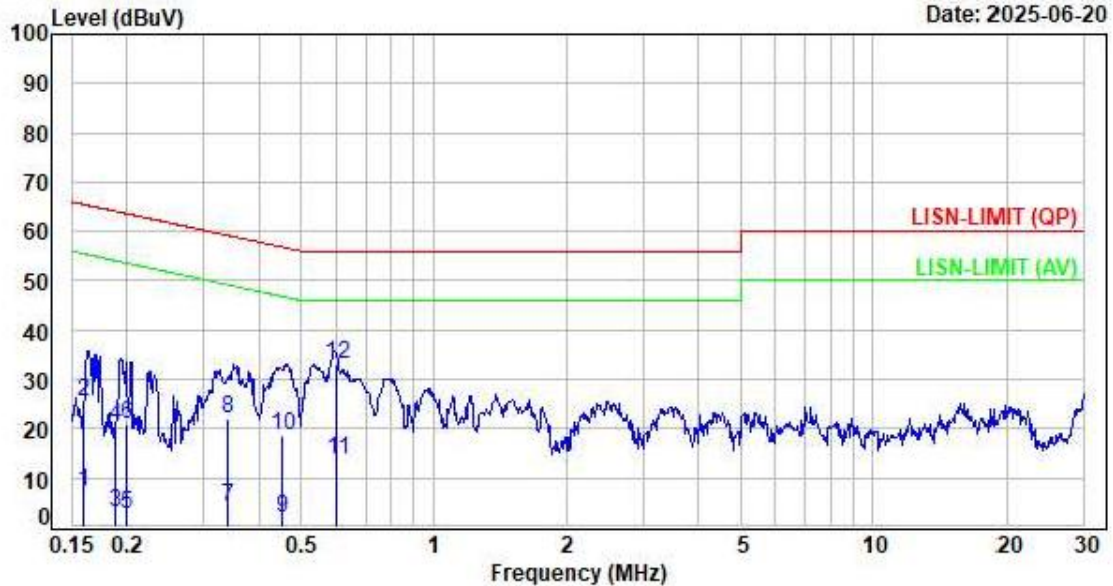
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1   | 0.1591          | 9.63        | -2.38          | 7.25         | 55.51        | -48.26      | Average  | P   |
| 2   | 0.1591          | 9.63        | 16.38          | 26.01        | 65.51        | -39.50      | QP       | P   |
| 3   | 0.1673          | 9.63        | -6.54          | 3.09         | 55.10        | -52.01      | Average  | P   |
| 4   | 0.1673          | 9.63        | 12.13          | 21.76        | 65.10        | -43.34      | QP       | P   |
| 5   | 0.1851          | 9.63        | -6.07          | 3.56         | 54.26        | -50.70      | Average  | P   |
| 6   | 0.1851          | 9.63        | 11.32          | 20.95        | 64.26        | -43.31      | QP       | P   |
| 7   | 0.3073          | 9.64        | -3.53          | 6.11         | 50.04        | -43.93      | Average  | P   |
| 8   | 0.3073          | 9.64        | 13.34          | 22.98        | 60.04        | -37.06      | QP       | P   |
| 9   | 0.4195          | 9.65        | -0.84          | 8.81         | 47.46        | -38.65      | Average  | P   |
| 10  | 0.4195          | 9.65        | 13.01          | 22.66        | 57.46        | -34.80      | QP       | P   |
| 11  | 0.6068          | 9.66        | 0.40           | 10.06        | 46.00        | -35.94      | Average  | P   |
| 12  | 0.6068          | 9.66        | 15.99          | 25.65        | 56.00        | -30.35      | QP       | P   |

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Test Mode : SRD 1TX 2474MHz 1Mbps  
Voltage : From Adapter(AC 240V/60Hz)  
Phase : Neutral

Data: 2



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1   | 0.1602          | 9.61        | -2.36          | 7.25         | 55.46        | -48.21      | Average  | P   |
| 2   | 0.1602          | 9.61        | 15.77          | 25.38        | 65.46        | -40.08      | QP       | P   |
| 3   | 0.1889          | 9.61        | -6.39          | 3.22         | 54.08        | -50.86      | Average  | P   |
| 4   | 0.1889          | 9.61        | 10.80          | 20.41        | 64.08        | -43.67      | QP       | P   |
| 5   | 0.1991          | 9.61        | -7.12          | 2.49         | 53.65        | -51.16      | Average  | P   |
| 6   | 0.1991          | 9.61        | 11.23          | 20.84        | 63.65        | -42.81      | QP       | P   |
| 7   | 0.3383          | 9.62        | -5.47          | 4.15         | 49.24        | -45.09      | Average  | P   |
| 8   | 0.3383          | 9.62        | 12.57          | 22.19        | 59.24        | -37.05      | QP       | P   |
| 9   | 0.4525          | 9.62        | -7.81          | 1.81         | 46.83        | -45.02      | Average  | P   |
| 10  | 0.4525          | 9.62        | 9.01           | 18.63        | 56.83        | -38.20      | QP       | P   |
| 11  | 0.6029          | 9.63        | 3.87           | 13.50        | 46.00        | -32.50      | Average  | P   |
| 12  | 0.6029          | 9.63        | 23.35          | 32.98        | 56.00        | -23.02      | QP       | P   |

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



## 6. Test of Spurious Emission (Radiated)

### 6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

| Frequency<br>(MHz) | Field Strength<br>(microvolt/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                                |



## 6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

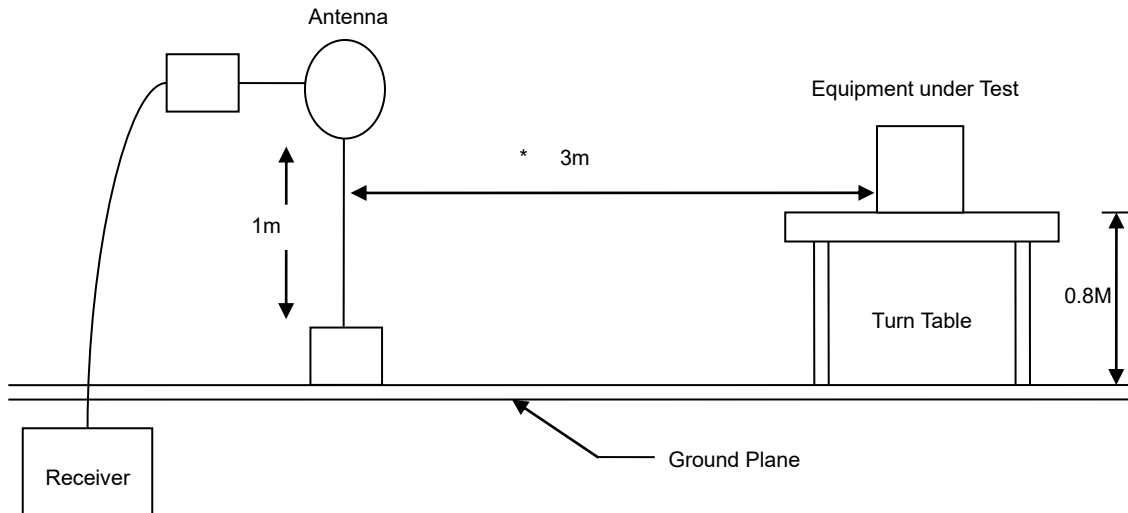
Note:

- 1.The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
- 2.Due to the test software function limit the operation band setting(200dBuV/m).  
There's no corresponding limitation in the actual test item.

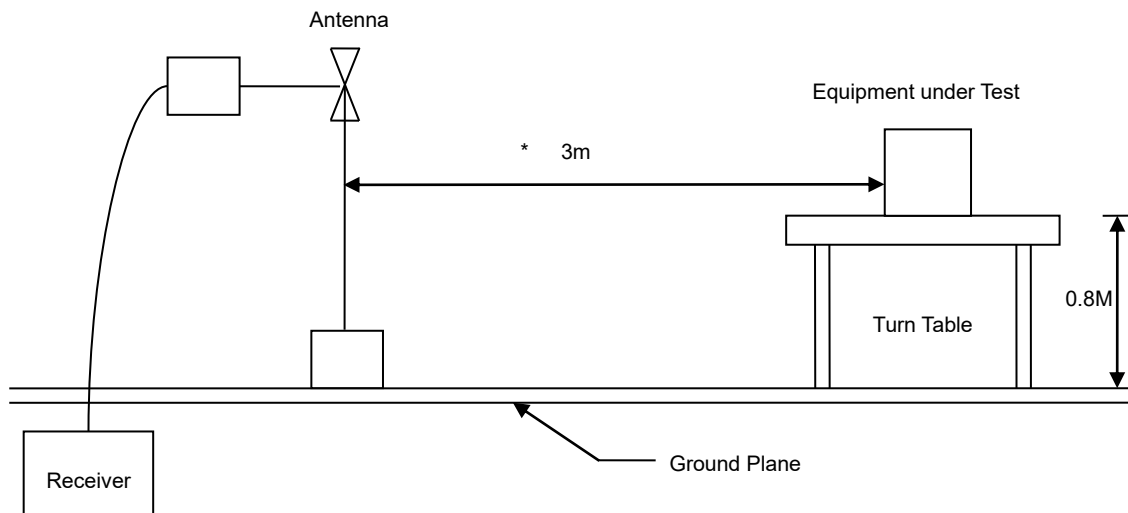


### 6.3 Typical Test Setup

Below 30MHz test setup

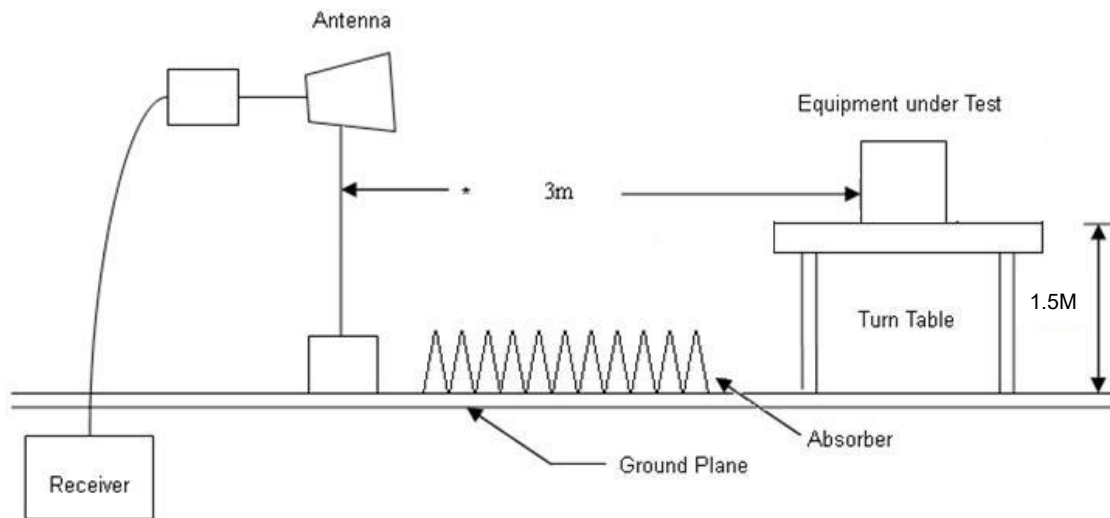


30MHz- 1GHz Test Setup





Above 1GHz Test Setup



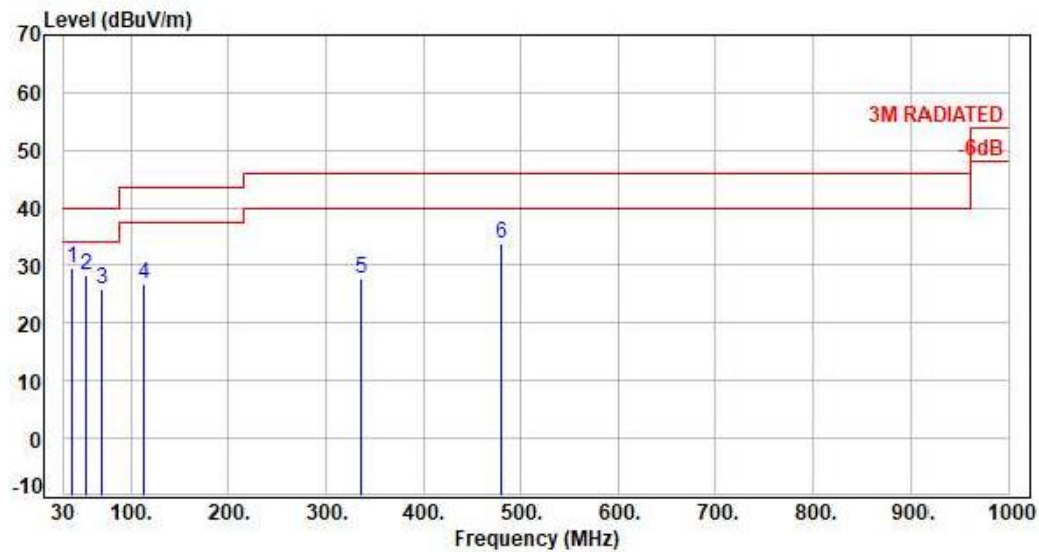


## 6.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

## 6.5 Test Result and Data (30MHz ~ 1GHz)

Test Mode : SRD 1TX 2474MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Vertical



| No. | Frequency<br>(MHz) | Factor<br>(dB) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Azimuth<br>(deg) | P/F |
|-----|--------------------|----------------|-------------------|-------------------|-------------------|----------------|----------|----------------|------------------|-----|
| 1   | 39.70              | -9.29          | 38.80             | 29.51             | 40.00             | -10.49         | QP       | 100            | 86               | P   |
| 2   | 53.28              | -15.99         | 44.20             | 28.21             | 40.00             | -11.79         | Peak     | 400            | 0                | P   |
| 3   | 70.74              | -15.40         | 41.34             | 25.94             | 40.00             | -14.06         | Peak     | 400            | 0                | P   |
| 4   | 113.42             | -10.14         | 36.97             | 26.83             | 43.50             | -16.67         | Peak     | 400            | 0                | P   |
| 5   | 336.52             | -7.26          | 34.88             | 27.62             | 46.00             | -18.38         | Peak     | 400            | 0                | P   |
| 6   | 480.08             | -3.59          | 37.54             | 33.95             | 46.00             | -12.05         | Peak     | 400            | 0                | P   |

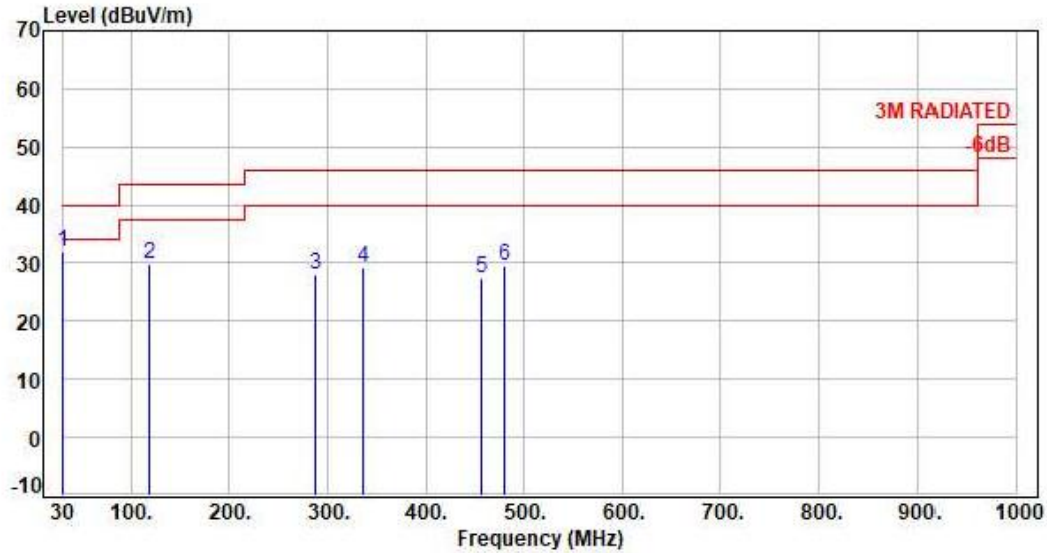
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : SRD 1TX 2474MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Horizontal



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1   | 30.00           | -2.10       | 33.95          | 31.85          | 40.00          | -8.15       | Peak     | 400         | 0             | P   |
| 2   | 119.24          | -9.47       | 39.18          | 29.71          | 43.50          | -13.79      | Peak     | 400         | 0             | P   |
| 3   | 288.02          | -8.42       | 36.40          | 27.98          | 46.00          | -18.02      | Peak     | 400         | 0             | P   |
| 4   | 336.52          | -7.26       | 36.36          | 29.10          | 46.00          | -16.90      | Peak     | 400         | 0             | P   |
| 5   | 456.80          | -4.59       | 31.89          | 27.30          | 46.00          | -18.70      | Peak     | 400         | 0             | P   |
| 6   | 480.08          | -3.59       | 33.14          | 29.55          | 46.00          | -16.45      | Peak     | 400         | 0             | P   |

Note: Level=Reading+Factor

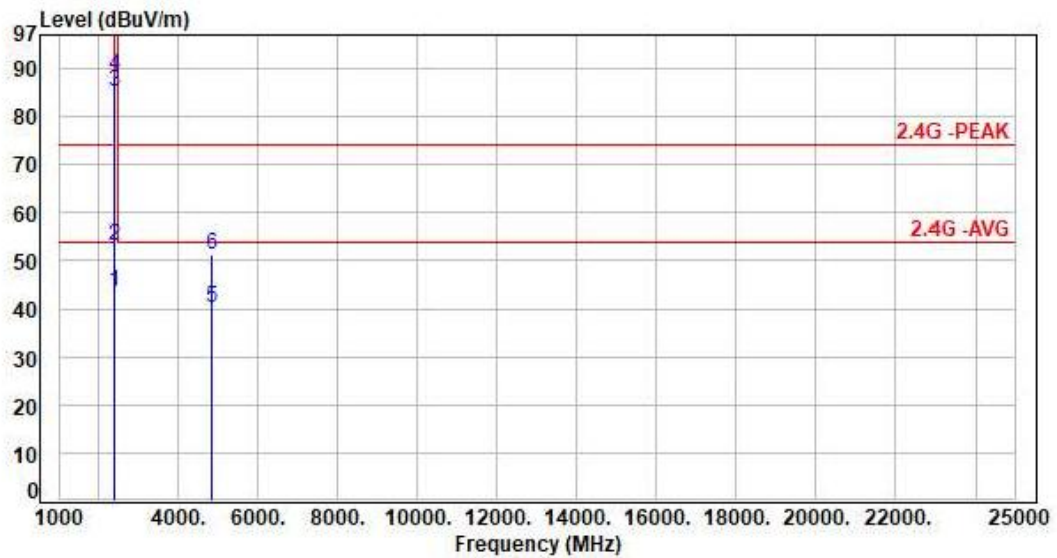
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



## 6.6 Test Result and Data (1GHz ~ 25GHz)

Test Mode : SRD 1TX 2408MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Vertical



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1   | 2390.00         | -6.33       | 49.68          | 43.35          | 54.00          | -10.65      | Average  | 128         | 71            | P   |
| 2   | 2390.00         | -6.33       | 59.59          | 53.26          | 74.00          | -20.74      | Peak     | 128         | 71            | P   |
| 3   | 2408.00         | -6.49       | 91.66          | 85.17          | 200.00         | -114.83     | Average  | 128         | 71            | P   |
| 4   | 2408.00         | -6.49       | 94.83          | 88.34          | 200.00         | -111.66     | Peak     | 128         | 71            | P   |
| 5   | 4816.00         | 0.70        | 39.43          | 40.13          | 54.00          | -13.87      | Average  | 223         | 125           | P   |
| 6   | 4816.00         | 0.70        | 50.56          | 51.26          | 74.00          | -22.74      | Peak     | 223         | 125           | P   |

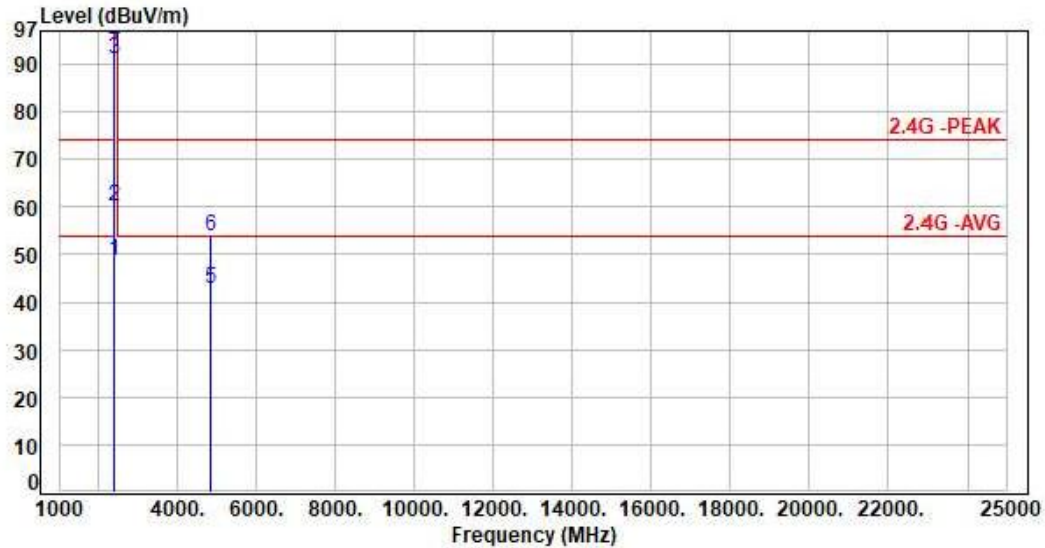
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : SRD 1TX 2408MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Horizontal



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1   | 2390.00         | -6.33       | 55.11          | 48.78          | 54.00          | -5.22       | Average  | 122         | 143           | P   |
| 2   | 2390.00         | -6.33       | 66.37          | 60.04          | 74.00          | -13.96      | Peak     | 122         | 143           | P   |
| 3   | 2408.00         | -6.49       | 97.66          | 91.17          | 200.00         | -108.83     | Average  | 122         | 143           | P   |
| 4   | 2408.00         | -6.49       | 101.04         | 94.55          | 200.00         | -105.45     | Peak     | 122         | 143           | P   |
| 5   | 4816.00         | 0.70        | 41.95          | 42.65          | 54.00          | -11.35      | Average  | 100         | 125           | P   |
| 6   | 4816.00         | 0.70        | 53.02          | 53.72          | 74.00          | -20.28      | Peak     | 100         | 125           | P   |

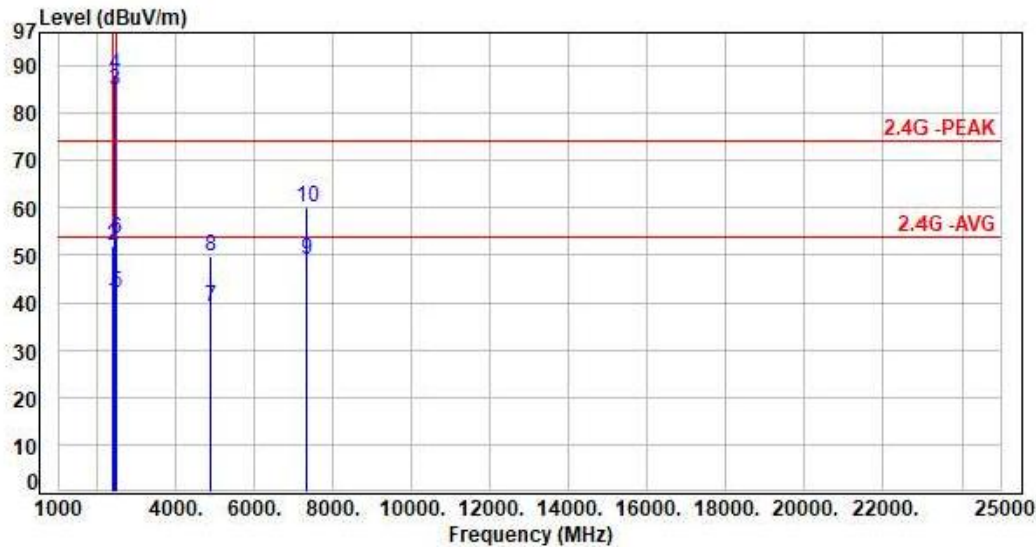
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : SRD 1TX 2440MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Vertical



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1   | 2390.00         | -6.33       | 46.70          | 40.37          | 54.00          | -13.63      | Average  | 100         | 72            | P   |
| 2   | 2390.00         | -6.33       | 58.21          | 51.88          | 74.00          | -22.12      | Peak     | 100         | 72            | P   |
| 3   | 2440.00         | -6.59       | 91.36          | 84.77          | 200.00         | -115.23     | Average  | 100         | 72            | P   |
| 4   | 2440.00         | -6.59       | 94.61          | 88.02          | 200.00         | -111.98     | Peak     | 100         | 72            | P   |
| 5   | 2483.50         | -6.56       | 48.52          | 41.96          | 54.00          | -12.04      | Average  | 100         | 72            | P   |
| 6   | 2483.50         | -6.56       | 60.06          | 53.50          | 74.00          | -20.50      | Peak     | 100         | 72            | P   |
| 7   | 4880.00         | 0.82        | 38.16          | 38.98          | 54.00          | -15.02      | Average  | 132         | 123           | P   |
| 8   | 4880.00         | 0.82        | 49.13          | 49.95          | 74.00          | -24.05      | Peak     | 132         | 123           | P   |
| 9   | 7320.00         | 4.68        | 44.27          | 48.95          | 54.00          | -5.05       | Average  | 100         | 339           | P   |
| 10  | 7320.00         | 4.68        | 55.36          | 60.04          | 74.00          | -13.96      | Peak     | 100         | 339           | P   |

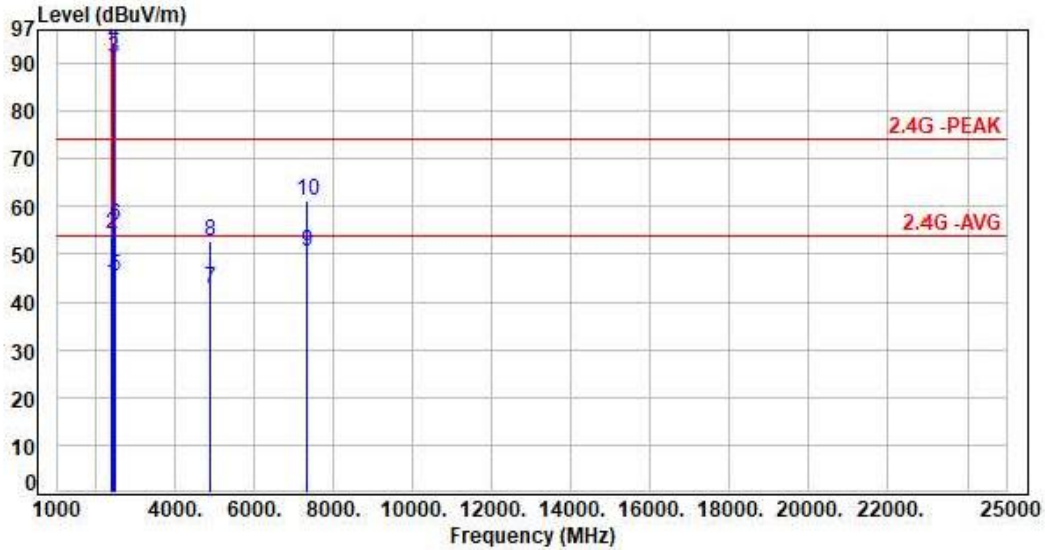
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : SRD 1TX 2440MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Horizontal



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1   | 2390.00         | -6.33       | 50.31          | 43.98          | 54.00          | -10.02      | Average  | 100         | 146           | P   |
| 2   | 2390.00         | -6.33       | 60.66          | 54.33          | 74.00          | -19.67      | Peak     | 100         | 146           | P   |
| 3   | 2440.00         | -6.59       | 97.80          | 91.21          | 200.00         | -108.79     | Average  | 100         | 146           | P   |
| 4   | 2440.00         | -6.59       | 100.82         | 94.23          | 200.00         | -105.77     | Peak     | 100         | 146           | P   |
| 5   | 2483.50         | -6.56       | 52.06          | 45.50          | 54.00          | -8.50       | Average  | 100         | 146           | P   |
| 6   | 2483.50         | -6.56       | 62.49          | 55.93          | 74.00          | -18.07      | Peak     | 100         | 146           | P   |
| 7   | 4880.00         | 0.82        | 41.80          | 42.62          | 54.00          | -11.38      | Average  | 100         | 182           | P   |
| 8   | 4880.00         | 0.82        | 52.02          | 52.84          | 74.00          | -21.16      | Peak     | 100         | 182           | P   |
| 9   | 7320.00         | 4.68        | 46.00          | 50.68          | 54.00          | -3.32       | Average  | 100         | 30            | P   |
| 10  | 7320.00         | 4.68        | 56.58          | 61.26          | 74.00          | -12.74      | Peak     | 100         | 30            | P   |

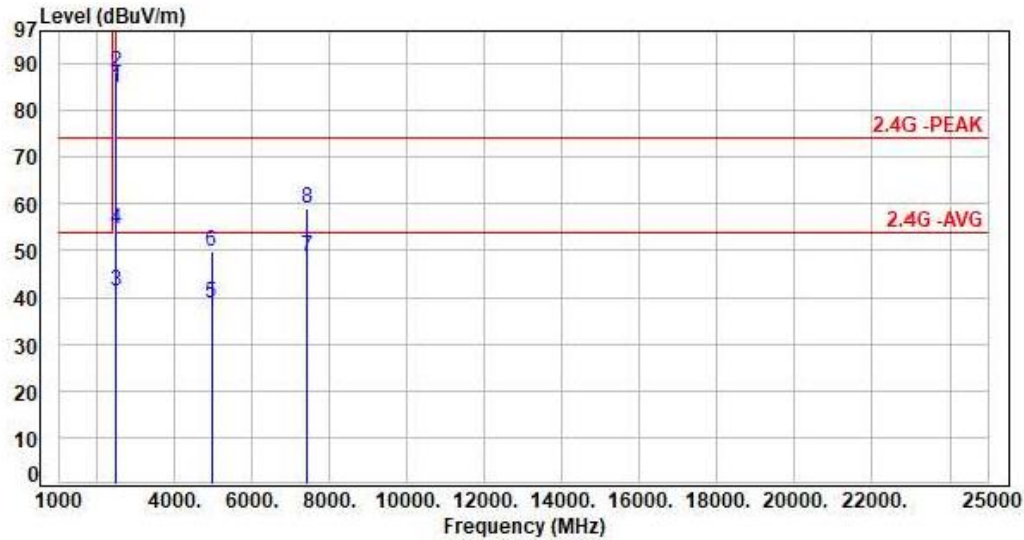
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : SRD 1TX 2474MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Vertical



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1   | 2474.00         | -6.57       | 91.42          | 84.85          | 200.00         | -115.15     | Average  | 100         | 72            | P   |
| 2   | 2474.00         | -6.57       | 94.57          | 88.00          | 200.00         | -112.00     | Peak     | 100         | 72            | P   |
| 3   | 2483.50         | -6.56       | 47.98          | 41.42          | 54.00          | -12.58      | Average  | 100         | 72            | P   |
| 4   | 2483.50         | -6.56       | 61.02          | 54.46          | 74.00          | -19.54      | Peak     | 100         | 72            | P   |
| 5   | 4948.00         | 1.08        | 37.59          | 38.67          | 54.00          | -15.33      | Average  | 100         | 113           | P   |
| 6   | 4948.00         | 1.08        | 48.74          | 49.82          | 74.00          | -24.18      | Peak     | 100         | 113           | P   |
| 7   | 7422.00         | 4.60        | 43.93          | 48.53          | 54.00          | -5.47       | Average  | 100         | 334           | P   |
| 8   | 7422.00         | 4.60        | 54.52          | 59.12          | 74.00          | -14.88      | Peak     | 100         | 334           | P   |

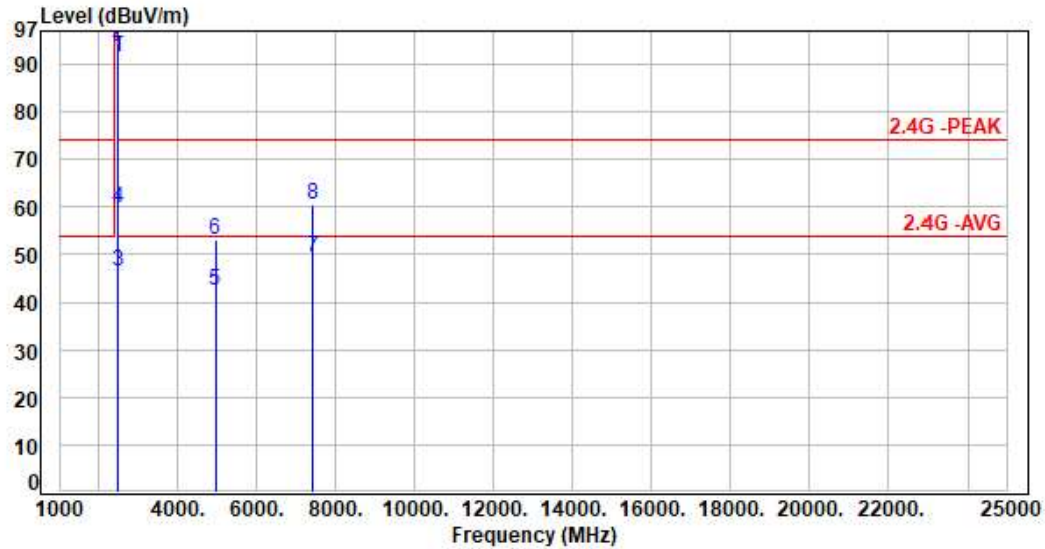
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : SRD 1TX 2474MHz 1Mbps  
Voltage : From Adapter(AC 120V/60Hz)  
Pol : Horizontal



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1   | 2474.00         | -6.57       | 97.89          | 91.32          | 200.00         | -108.68     | Average  | 145         | 35            | P   |
| 2   | 2474.00         | -6.57       | 101.09         | 94.52          | 200.00         | -105.48     | Peak     | 145         | 35            | P   |
| 3   | 2483.50         | -6.56       | 53.18          | 46.62          | 54.00          | -7.38       | Average  | 145         | 35            | P   |
| 4   | 2483.50         | -6.56       | 66.31          | 59.75          | 74.00          | -14.25      | Peak     | 145         | 35            | P   |
| 5   | 4948.00         | 1.08        | 41.46          | 42.54          | 54.00          | -11.46      | Average  | 100         | 177           | P   |
| 6   | 4948.00         | 1.08        | 52.01          | 53.09          | 74.00          | -20.91      | Peak     | 100         | 177           | P   |
| 7   | 7422.00         | 4.60        | 44.99          | 49.59          | 54.00          | -4.41       | Average  | 100         | 353           | P   |
| 8   | 7422.00         | 4.60        | 55.94          | 60.54          | 74.00          | -13.46      | Peak     | 100         | 353           | P   |

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



## 6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                 | MHz                   | MHz             | GHz             |
|---------------------|-----------------------|-----------------|-----------------|
| 0.09000 – 0.11000   | 16.42000 – 16.42300   | 399.9 – 410.0   | 4.500 – 5.250   |
| 0.49500 – 0.505**   | 16.69475 – 16.69525   | 608.0 – 614.0   | 5.350 – 5.460   |
| 2.17350 – 2.19050   | 16.80425 – 16.80475   | 960.0 – 1240.0  | 7.250 – 7.750   |
| 4.12500 – 4.12800   | 25.50000 – 25.67000   | 1300.0 – 1427.0 | 8.025 – 8.500   |
| 4.17725 – 4.17775   | 37.50000 – 38.25000   | 1435.0 – 1626.5 | 9.000 – 9.200   |
| 4.20725 – 4.20775   | 73.00000 – 74.60000   | 1645.5 – 1646.5 | 9.300 – 9.500   |
| 6.21500 – 6.21800   | 74.80000 – 75.20000   | 1660.0 – 1710.0 | 10.600 – 12.700 |
| 6.26775 – 6.26825   | 108.00000 – 121.94000 | 1718.8 – 1722.2 | 13.250 – 13.400 |
| 6.31175 – 6.31225   | 123.00000 – 138.00000 | 2200.0 – 2300.0 | 14.470 – 14.500 |
| 8.29100 – 8.29400   | 149.90000 – 150.05000 | 2310.0 – 2390.0 | 15.350 – 16.200 |
| 8.36200 – 8.36600   | 156.52475 – 156.52525 | 2483.5 – 2500.0 | 17.700 – 21.400 |
| 8.37625 – 8.38675   | 156.70000 – 156.90000 | 2655.0 – 2900.0 | 22.010 – 23.120 |
| 8.41425 – 8.41475   | 162.01250 – 167.17000 | 3260.0 – 3267.0 | 23.600 – 24.000 |
| 12.29000 – 12.29300 | 167.72000 – 173.20000 | 3332.0 – 3339.0 | 31.200 – 31.800 |
| 12.51975 – 12.52025 | 240.00000 – 285.00000 | 3345.8 – 3358.0 | 36.430 – 36.500 |
| 12.57675 – 12.57725 | 322.00000 – 335.40000 | 3600.0 – 4400.0 | Above 38.6      |
| 13.36000 – 13.41000 |                       |                 |                 |

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



## 7. Test of Spurious Emission (Conducted)

### 7.1 Test Limit

According to the methods defined in ANSI C63.10-2013 Section 11.11.1

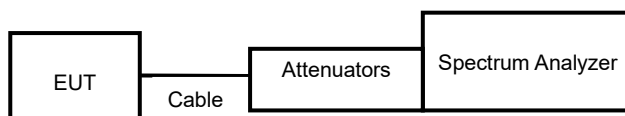
Below  $-20\text{dB}$  of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

### 7.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.11.2 & 11.11.3

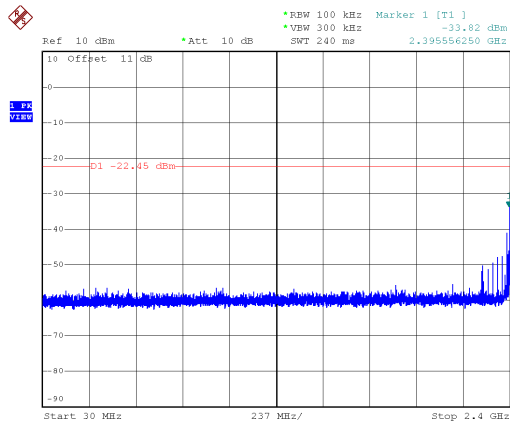
- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

### 7.3 Test Setup Layout

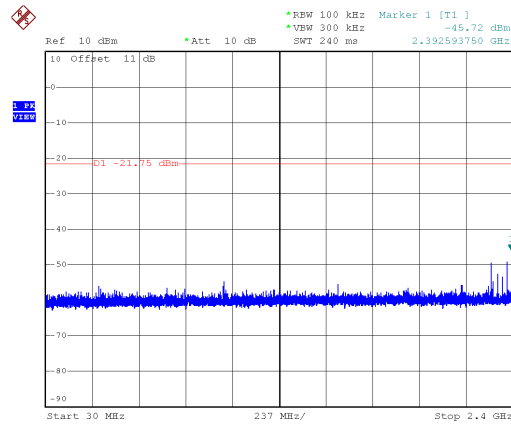


### 7.4 Test Result and Data

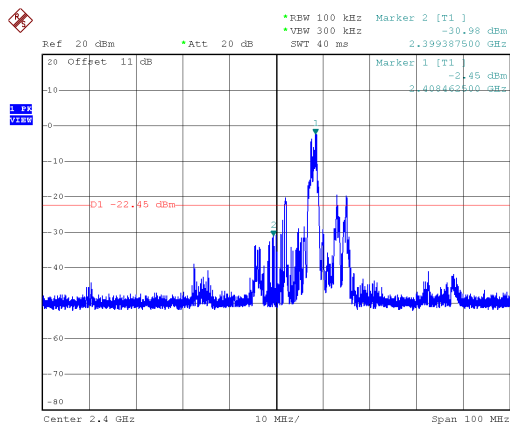
Note: Test plots refer to the following pages.

Modulation Type: GFSK(1Mbps)  
CH01

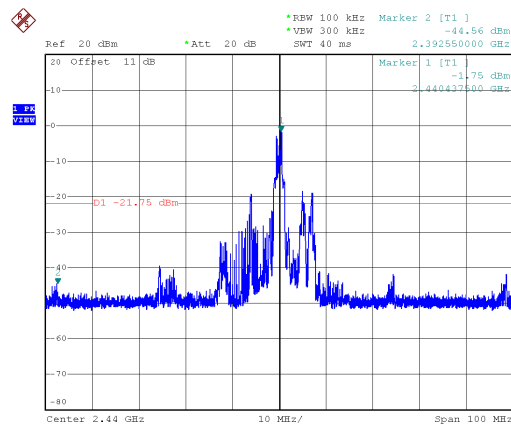
Date: 25.JUN.2025 15:00:45

Modulation Type: GFSK(1Mbps)  
CH17

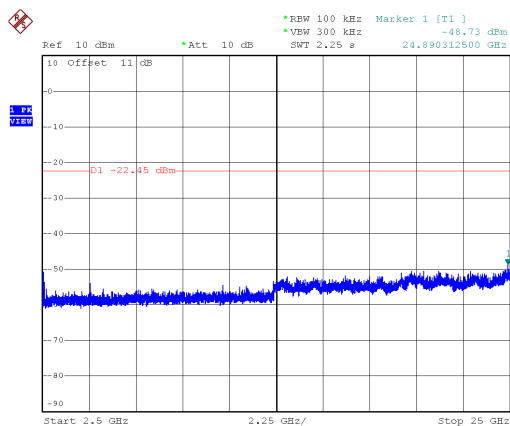
Date: 25.JUN.2025 15:07:25



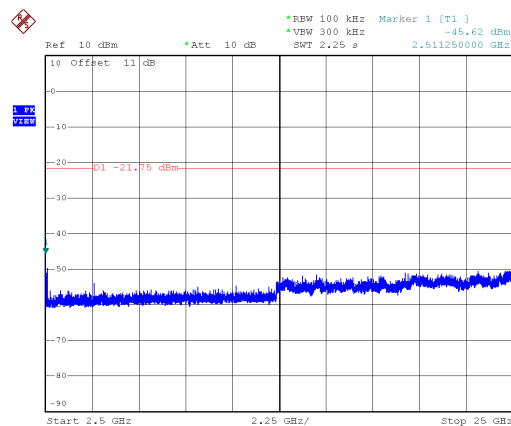
Date: 25.JUN.2025 15:00:02



Date: 25.JUN.2025 15:05:20



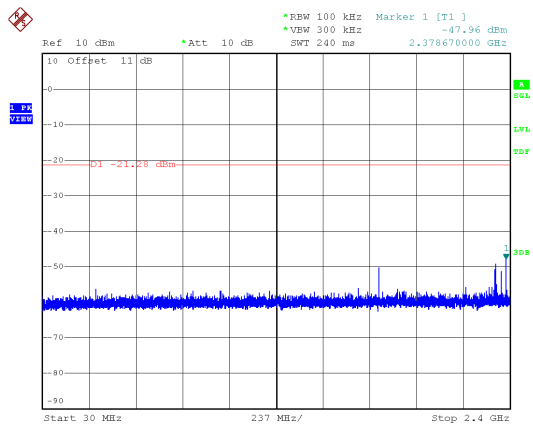
Date: 25.JUN.2025 15:01:27



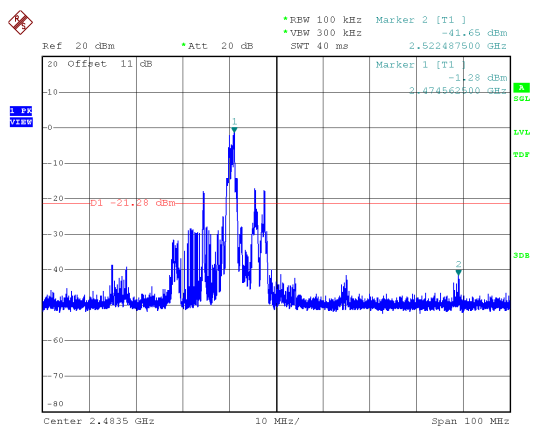
Date: 25.JUN.2025 15:08:07



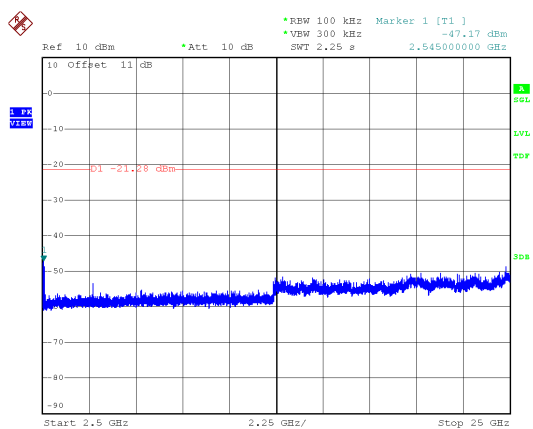
Modulation Type: GFSK(1Mbps)  
CH34



Date: 25.JUN.2025 15:11:43



Date: 25.JUN.2025 15:11:00



Date: 25.JUN.2025 15:12:25



## 8. On Time, Duty Cycle and Measurement methods

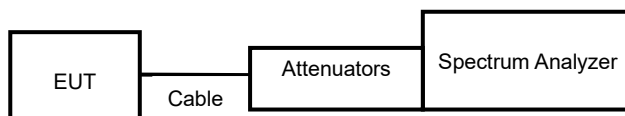
### 8.1 Test Limit

None; for reporting purposes only.

### 8.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.6  
Zero-Span Spectrum Analyzer Method.

### 8.3 Test Setup Layout

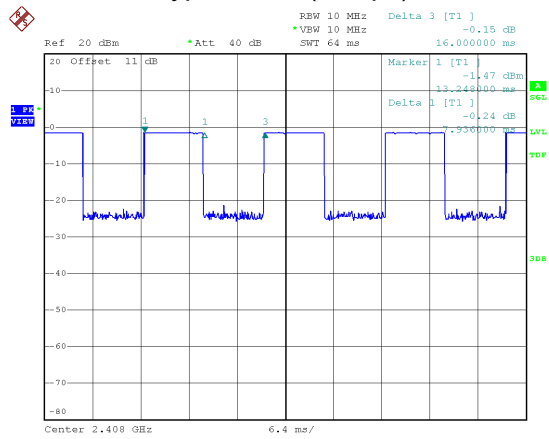


### 8.4 Test Result and Data

| Modulation Type | On Time (ms) | Period Time (ms) | Duty Cycle (%) |
|-----------------|--------------|------------------|----------------|
| GFSK(1Mbps)     | 7.94         | 16.00            | 49.60%         |



Modulation Type: GFSK(1Mbps)





## 9. 6dB Bandwidth Measurement Data

### 9.1 Test Limit

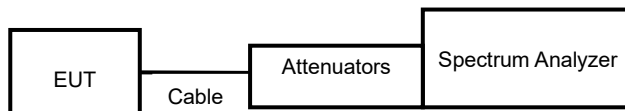
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- The 6dB Bandwidth was measured and recorded.

### 9.3 Test Setup Layout



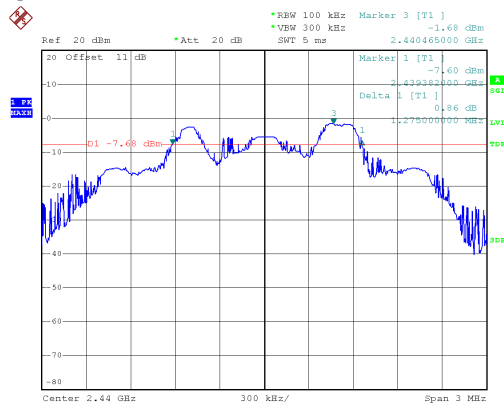
### 9.4 Test Result and Data

| Modulation Type | Channel | Frequency (MHz) | 6dB Bandwidth (KHz) | Limit (KHz) |
|-----------------|---------|-----------------|---------------------|-------------|
| GFSK(1Mbps)     | 1       | 2408            | 1266.00             | 500         |
|                 | 17      | 2440            | 1275.00             | 500         |
|                 | 34      | 2474            | 1263.00             | 500         |

Modulation Type: GFSK(1Mbps)  
CH01

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Modulation Type: GFSK(1Mbps)  
CH17



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Modulation Type: GFSK(1Mbps)  
CH34



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## 10. Maximum Average Output Power

### 10.1 Test Limit

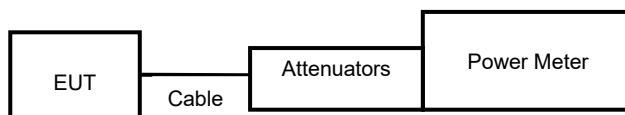
The Maximum Output Power Measurement is 30dBm.

### 10.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.9.2.3.2

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 10.3 Test Setup Layout



**10.4 Test Result and Data**

| Power Set | Modulation Type | Channel | Frequency (MHz) | Power Output (dBm) |         | Power Output (mW) |         |
|-----------|-----------------|---------|-----------------|--------------------|---------|-------------------|---------|
|           |                 |         |                 | Peak               | Average | Peak              | Average |
| Default   | GFSK            | 1       | 2408            | -1.37              | -2.01   | 0.729             | 0.630   |
| Default   |                 | 17      | 2440            | -1.28              | -0.7    | 0.745             | 0.851   |
| Default   |                 | 34      | 2474            | -0.1               | -0.67   | 0.977             | 0.857   |

\*Average Power is for reference only



## 11. Power Spectral Density

### 11.1 Test Limit

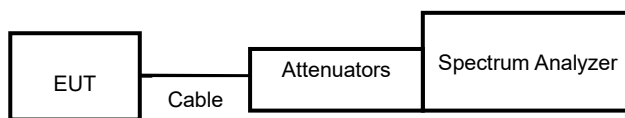
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

### 11.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.10.1

### 11.3 Test Setup Layout

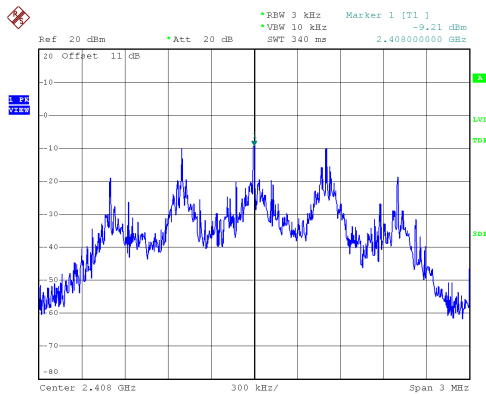


### 11.4 Test Result and Data

| Modulation Type | Channel | Frequency (MHz) | Maximum Power Density of 10KHz Bandwidth(dBm) | Duty Cycle CF(dB) | Total PSD (dBm) | Limit |
|-----------------|---------|-----------------|-----------------------------------------------|-------------------|-----------------|-------|
| GFSK            | 1       | 2408            | -9.21                                         | 0.00              | -9.21           | 8.00  |
|                 | 17      | 2440            | -8.38                                         | 0.00              | -8.38           | 8.00  |
|                 | 34      | 2474            | -7.97                                         | 0.00              | -7.97           | 8.00  |

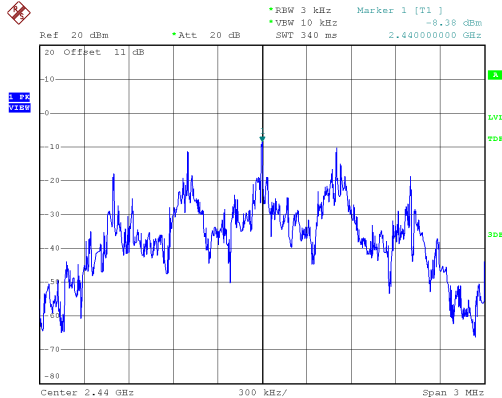


Modulation Type: GFSK(1Mbps)  
CH01



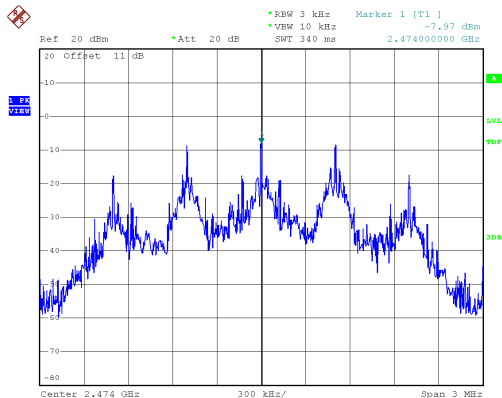
Date: 25.JUN.2025 14:59:19

Modulation Type: GFSK(1Mbps)  
CH17



Date: 25.JUN.2025 15:04:38

Modulation Type: GFSK(1Mbps)  
CH34



Date: 25.JUN.2025 15:10:17

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