

# TEST REPORT

**Application No.:** GZCR2503000314MD

**Applicant:** Maxphotonics Co., Ltd.

**Address of Applicant:** Maxphotonics Industrial Park, Third Furong Road Furong Industrial Area, Shajing Town, BaoAn District Shenzhen, Guangdong, China.

**Manufacturer:** Maxphotonics Co., Ltd.

**Address of Manufacturer:** Maxphotonics Industrial Park, Third Furong Road Furong Industrial Area, Shajing Town, BaoAn District Shenzhen, Guangdong, China.

**Factory:**

1. Maxphotonics Co., Ltd.
2. Suzhou Maxphotonics Co., Ltd.
3. Shenzhen Maxphotonics Co., Ltd.

**Address of Factory:**

1. Maxphotonics Industrial Park, Third Furong Road Furong Industrial Area, Shajing Town, BaoAn District Shenzhen, Guangdong, China.
2. No. 88, Changtai Road, Huangdai Town, Xiangcheng District, Suzhou City, P.R. China
3. Building A, No. 84 Xinyu Road, Xinqiao Street, Baoan District, Shenzhen City, P.R. China

**Product Name:** MFMC 20000-40000 CW Fiber Laser Series

**Model No.:** MFMC-40000M-E\*W6.1, MFMC-30000M-E\*W6.1, MFMC-20000M-E\*W6.1  
 ("\*" Represents the length of the cable, which can be any letter between A-Z.) ♣

♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:**

**Standard(s) :** 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2025-03-07

**Date of Test:** 2025-04-11 to 2025-04-20

**Date of Issue:** 2025-06-13

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Ricky Liu*

Ricky Liu  
Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center EEC Laboratory

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR250300031402	2025-06-13	Original

Authorized for issue by				
				
		Simon Cai/Project Engineer		
				
		Vico Cui/Reviewer		



## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

### ♣ Declaration of EUT Family Grouping:

**Model No.:** MFMC-40000M-E\*W6.1, MFMC-30000M-E\*W6.1, MFMC-20000M-E\*W6.1

("\*") Represents the length of the cable, which can be any letter between A-Z.)

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name, power, current, type of safety critical component and appearance.

Therefore only one model **MFMC-40000M-EMW6.1** was tested in this report.



### 3 Contents

	Page
1 Cover Page .....	1
2 Test Summary.....	3
3 Contents .....	4
4 General Information.....	6
4.1 Details of E.U.T. ....	6
4.2 Description of Support Units.....	6
4.3 Measurement Uncertainty .....	7
4.4 Test Location .....	7
4.5 Test Facility.....	8
4.6 Deviation from Standards.....	8
4.7 Abnormalities from Standard Conditions .....	8
5 Equipment List .....	9
6 Radio Spectrum Technical Requirement.....	12
6.1 Antenna Requirement .....	12
6.1.1 Test Requirement: .....	12
6.1.2 Conclusion .....	12
7 Radio Spectrum Matter Test Results .....	13
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) .....	13
7.1.1 E.U.T. Operation .....	13
7.1.2 Test Mode Description .....	13
7.1.3 Test Setup Diagram .....	14
7.1.4 Measurement Procedure and Data.....	14
7.2 Radiated Emissions which fall in the restricted bands .....	18
7.2.1 E.U.T. Operation .....	18
7.2.2 Test Mode Description .....	18
7.2.3 Test Setup Diagram .....	19
7.2.4 Measurement Procedure and Data.....	19
7.3 Radiated Spurious Emissions Below 1GHz.....	24
7.3.1 E.U.T. Operation .....	24
7.3.2 Test Mode Description .....	24
7.3.3 Test Setup Diagram .....	25
7.3.4 Measurement Procedure and Data.....	25
7.4 Radiated Spurious Emissions Above 1GHz .....	28
7.4.1 E.U.T. Operation .....	28
7.4.2 Test Mode Description .....	28
7.4.3 Test Setup Diagram .....	28
7.4.4 Measurement Procedure and Data.....	29
7.5 Conducted Peak Output Power .....	36
7.5.1 E.U.T. Operation .....	36
7.5.2 Test Mode Description .....	36
7.5.3 Test Setup Diagram .....	36





7.5.4	Measurement Procedure and Data	36
7.6	Minimum 6dB Bandwidth	37
7.6.1	E.U.T. Operation	37
7.6.2	Test Mode Description	37
7.6.3	Test Setup Diagram	37
7.6.4	Measurement Procedure and Data	37
7.7	Power Spectrum Density	38
7.7.1	E.U.T. Operation	38
7.7.2	Test Mode Description	38
7.7.3	Test Setup Diagram	38
7.7.4	Measurement Procedure and Data	38
7.8	Conducted Band Edges Measurement	39
7.8.1	E.U.T. Operation	39
7.8.2	Test Mode Description	39
7.8.3	Test Setup Diagram	39
7.8.4	Measurement Procedure and Data	39
7.9	Conducted Spurious Emissions	40
7.9.1	E.U.T. Operation	40
7.9.2	Test Mode Description	40
7.9.3	Test Setup Diagram	40
7.9.4	Measurement Procedure and Data	40
8	Test Setup Photo	41
9	EUT Constructional Details (EUT Photos)	42
10	Appendix	43



## 4 General Information

### 4.1 Details of E.U.T.

Power supply: AC 220V 50/60Hz 180A  
 Cable(s): about 4m 3-wires AC mains cable  
 about 4m signal cable  
 about 10m network cable (debug use)  
 Test Voltage: AC 220V 60Hz  
 Operation Frequency: 2402MHz to 2480MHz  
 Modulation Type: GFSK  
 Number of Channels: 40  
 Channel Spacing: 2MHz  
 Antenna Type: FPC dedicated antenna  
 Antenna Gain: 2.03 dBi according to antenna specification  
 Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ



### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.22dB
Radiated Emissions which fall in the restricted bands	±5.14dB (3m); ±4.90dB (10m); ±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±3.08dB (9kHz to 150kHz); ±3.19dB (150kHz to 30MHz); ±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m)
Radiated Spurious Emissions Above 1GHz	±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 0.274%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
<p>Remark:</p> <p>The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{CISPR}</math> (CISPR Uncertainty) or <math>U_{ETSI}</math> (ETSI Uncertainty).</p> <p>Emission decision rule:</p> <ul style="list-style-type: none"> <li>– Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.</li> <li>– Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.</li> </ul>	

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,  
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### ● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

### ● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### ● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

### ● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

### ● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

### ● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None





## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2024-10-14	2025-10-13
EMC Test Receiver (9kHz-3GHz)	R&S	ESCI 3	EMC0056	2024-12-03	2025-12-02
Passive Voltage Probe (10kHz-30MHz)	Rohde & Schwarz	ESH 2-Z3	EMC2179	2024-12-04	2025-12-03
Voltage Probe (10kHz-30MHz)	SCHWARZBECK MESS-ELEKTRONIK	TK 9421	EMC0106	2024-12-04	2025-12-03
EMC Test Receiver (9kHz-3GHz)	R&S	ESCI 3	EMC2272	2024-09-02	2025-09-01
4 Path V-LISN	SCHWARZBECK	NNLK 8129	EMC2283	2024-12-12	2025-12-11
EMI TEST RECEIVER (9kHz-3GHz)	R&S	ESCI 3	EMC2271	2024-09-02	2025-09-01

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2024-10-14	2025-10-13
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	SEM003-18	2025-01-22	2027-01-21
EMC Test Receiver (9kHz-3GHz)	R&S	ESCI 3	EMC0056	2024-12-03	2025-12-02
Broadband Preamplifier (9k-6GHz)	SCHWARZBECK	BBV 9744	EMC2170	2024-12-04	2025-12-03
Biconical VHF-UHF Broadband Antenna (30) 150-1000MHz	SCHWARZBECK	VUBA9117	EMC2178	2023-11-15	2026-11-14
EMC Test Receiver (9kHz-3GHz)	R&S	ESCI 3	EMC2272	2024-09-02	2025-09-01
EMI TEST RECEIVER (9kHz-3GHz)	R&S	ESCI 3	EMC2271	2024-09-02	2025-09-01
Amplifier 9kHz-1300MHz	HP	8447F	EMC2065	2024-12-04	2025-12-03
Bilog Type Antenna (30MHz-3GHz)	SCHAFFNER CHASE	CBL6112B	EMC0524	2022-09-07	2025-09-06

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2024-10-14	2025-10-13
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2024-10-14	2025-10-13
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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EMC-TRF-01 Rev 1.1

Report No.: GZCR250300031402

Page: 11 of 64

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2257	2024-08-19	2025-08-18
Test Software	TST	V2.0	GZE100-82	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2024-12-03	2025-12-02

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12



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Guangzhou Branch, Testing Center EEC Laboratory

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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.03dBi.

Antenna location: Refer to internal photo.





## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 59.8 % RH

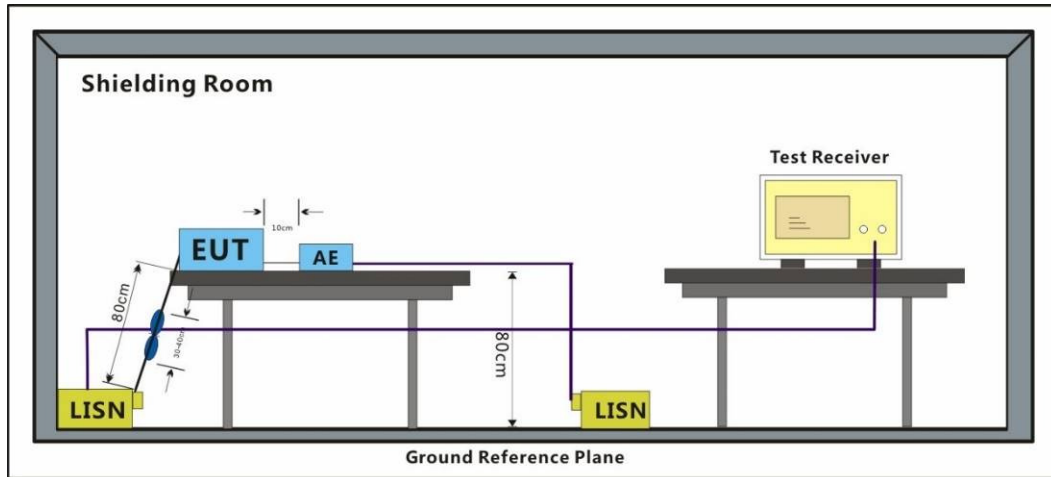
Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark : Level=Read Level+ Cable Loss+ LISN Factor



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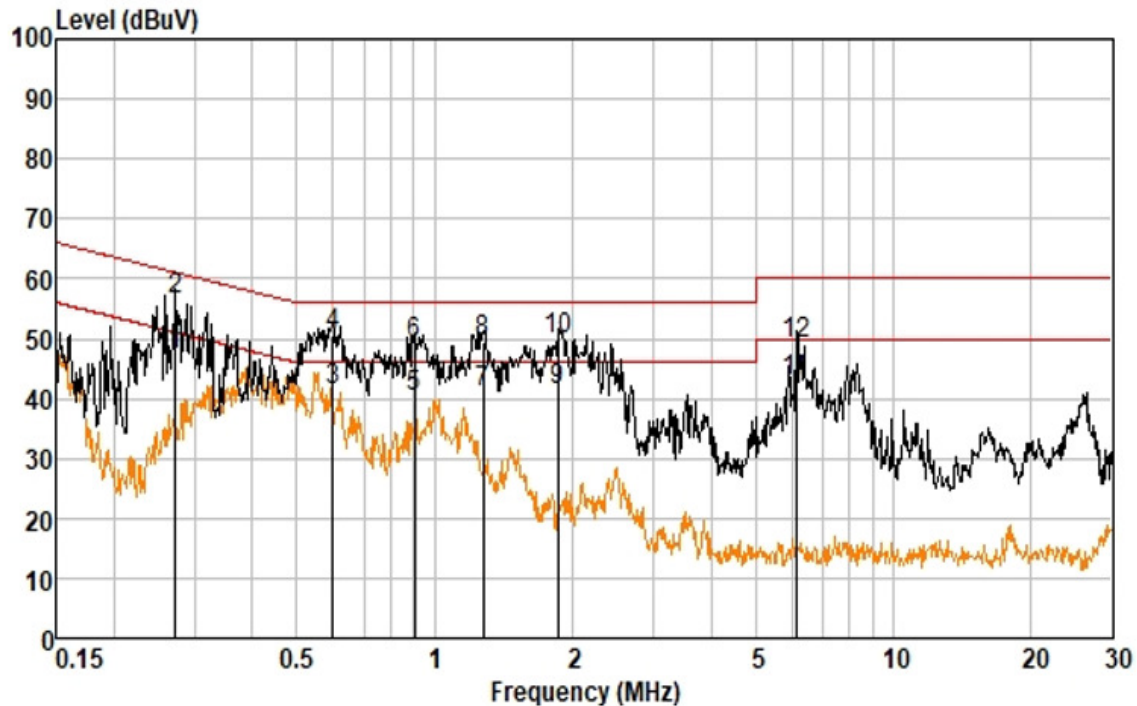
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Test Mode: 00; Line: Live line 1

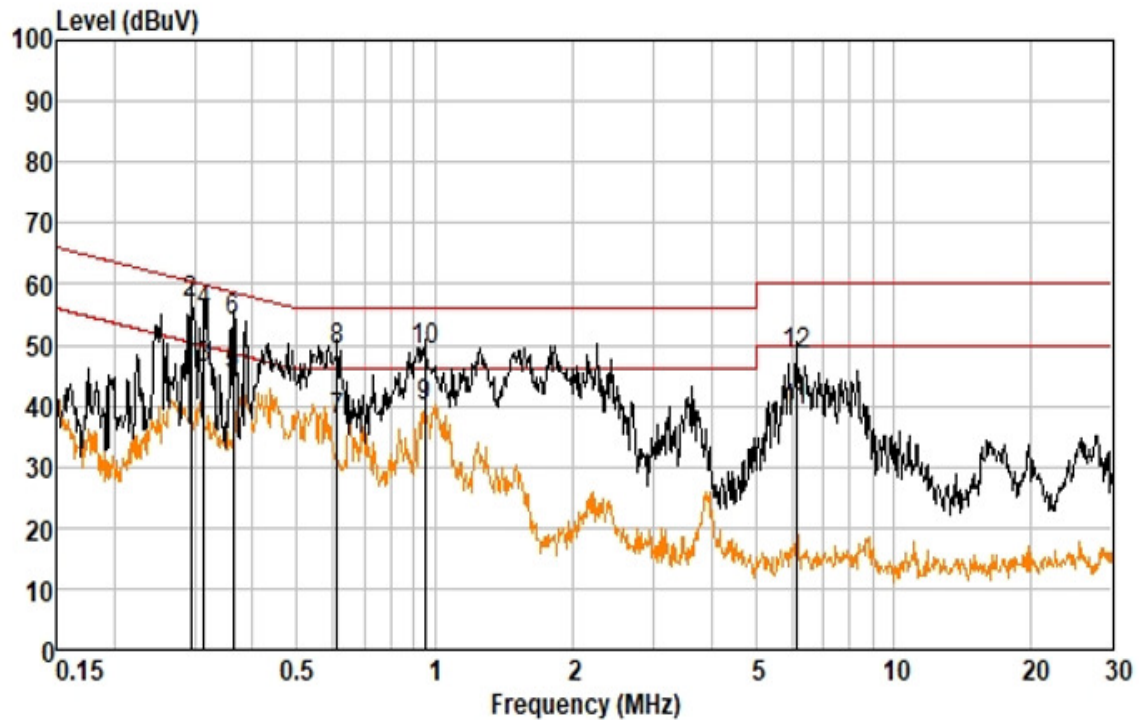


	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Pol/ Phase	Remark
1	0.272	46.99	0.10	0.04	47.13	51.07	-3.94	LINE	Average
2	0.272	56.27	0.10	0.04	56.41	61.07	-4.66	LINE	QP
3	0.598	41.04	0.10	0.04	41.18	46.00	-4.82	LINE	Average
4	0.598	50.38	0.10	0.04	50.52	56.00	-5.48	LINE	QP
5	0.904	39.90	0.10	0.05	40.05	46.00	-5.95	LINE	Average
6	0.904	48.95	0.10	0.05	49.10	56.00	-6.90	LINE	QP
7	1.276	40.91	0.10	0.05	41.06	46.00	-4.94	LINE	Average
8	1.276	49.23	0.10	0.05	49.38	56.00	-6.62	LINE	QP
9	1.858	41.19	0.10	0.06	41.35	46.00	-4.65	LINE	Average
10	1.858	49.65	0.10	0.06	49.81	56.00	-6.19	LINE	QP
11	6.121	42.22	0.30	0.11	42.63	50.00	-7.37	LINE	Average
12	6.121	48.81	0.30	0.11	49.22	60.00	-10.78	LINE	QP





Test Mode: 00; Line: Live line 2

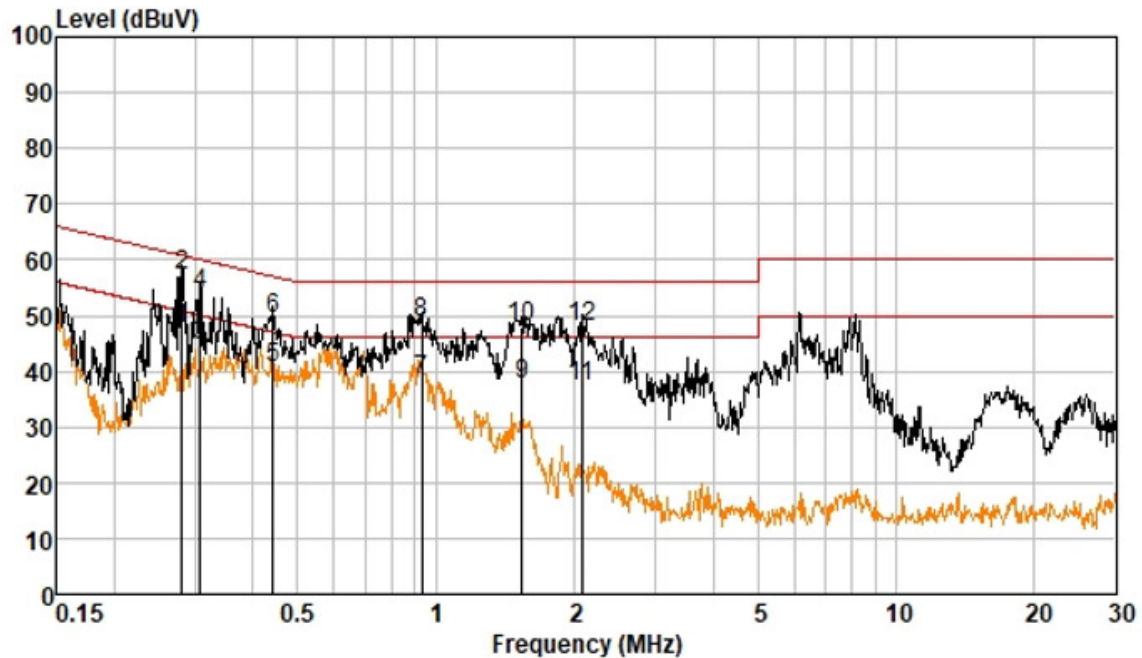


	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Pol/ Phase	Remark
1	0.294	46.85	0.10	0.04	46.99	50.41	-3.42	LINE	Average
2	0.294	56.68	0.10	0.04	56.82	60.41	-3.59	LINE	QP
3	0.313	46.00	0.10	0.04	46.14	49.88	-3.74	LINE	Average
4	0.313	55.09	0.10	0.04	55.23	59.88	-4.65	LINE	QP
5	0.363	44.90	0.10	0.04	45.04	48.65	-3.61	LINE	Average
6	0.363	53.63	0.10	0.04	53.77	58.65	-4.88	LINE	QP
7	0.611	37.56	0.10	0.04	37.70	46.00	-8.30	LINE	Average
8	0.611	48.96	0.10	0.04	49.10	56.00	-6.90	LINE	QP
9	0.948	39.69	0.10	0.05	39.84	46.00	-6.16	LINE	Average
10	0.948	48.90	0.10	0.05	49.05	56.00	-6.95	LINE	QP
11	6.121	38.87	0.30	0.12	39.29	50.00	-10.71	LINE	Average
12	6.121	48.09	0.30	0.12	48.51	60.00	-11.49	LINE	QP





Test Mode: 00; Line: Live line 3



	Freque	Read	Cable	LISN	Measured	Limit	Over	Pol/	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	Phase	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB		
1	0.280	47.37	0.10	0.04	47.51	50.81	-3.30	LINE	Average
2	0.280	57.06	0.10	0.04	57.20	60.81	-3.61	LINE	QP
3	0.307	44.60	0.10	0.04	44.74	50.06	-5.32	LINE	Average
4	0.307	53.56	0.10	0.04	53.70	60.06	-6.36	LINE	QP
5	0.442	40.32	0.10	0.04	40.46	47.02	-6.56	LINE	Average
6	0.442	49.42	0.10	0.04	49.56	57.02	-7.46	LINE	QP
7	0.933	38.14	0.10	0.05	38.29	46.00	-7.71	LINE	Average
8	0.933	48.40	0.10	0.05	48.55	56.00	-7.45	LINE	QP
9	1.535	37.48	0.10	0.06	37.64	46.00	-8.36	LINE	Average
10	1.535	47.76	0.10	0.06	47.92	56.00	-8.08	LINE	QP
11	2.077	37.13	0.11	0.07	37.31	46.00	-8.69	LINE	Average
12	2.077	47.87	0.11	0.07	48.05	56.00	-7.95	LINE	QP



## 7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 11.12

Limit:

Test Distance: 3 m

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.2.1 E.U.T. Operation

Operating Environment:

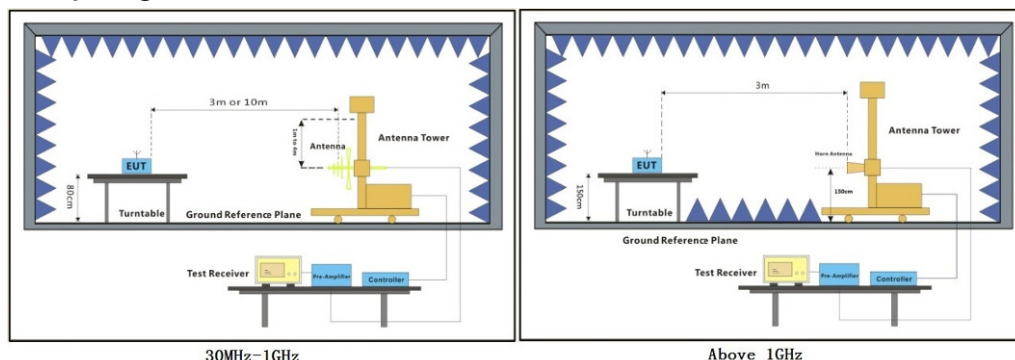
Temperature: 23.2 °C Humidity: 51.7 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

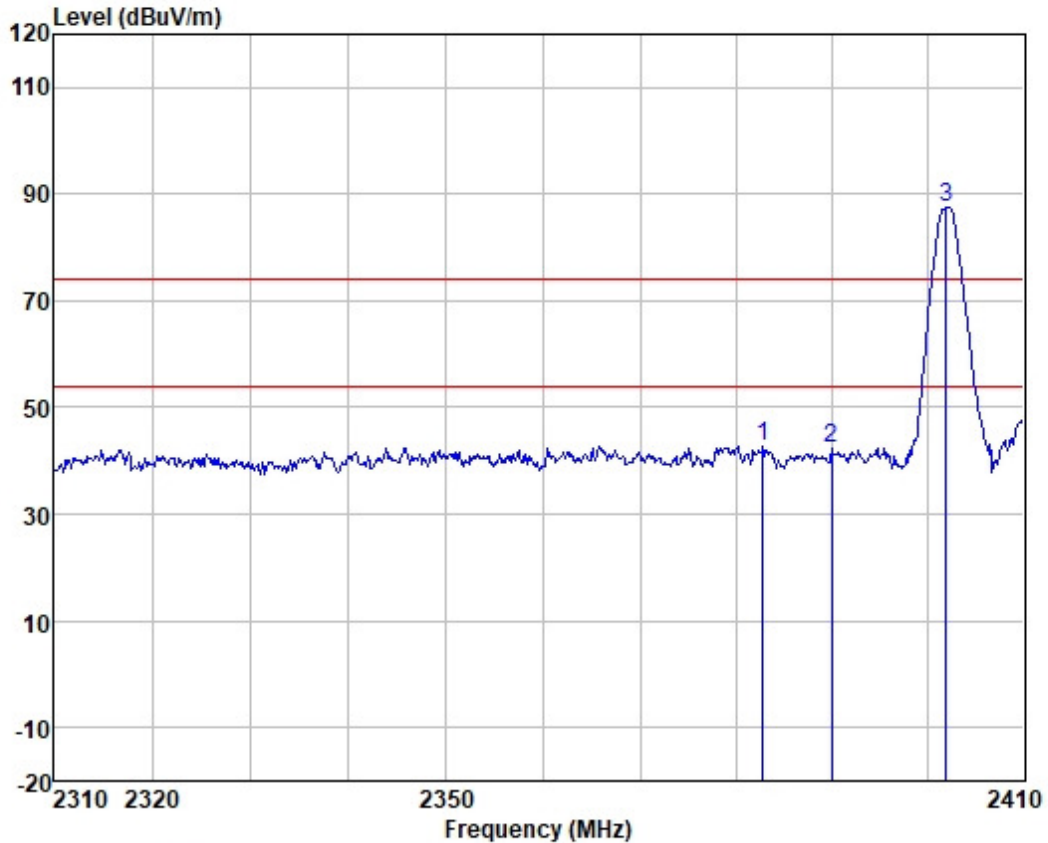
Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, 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  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.





Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low

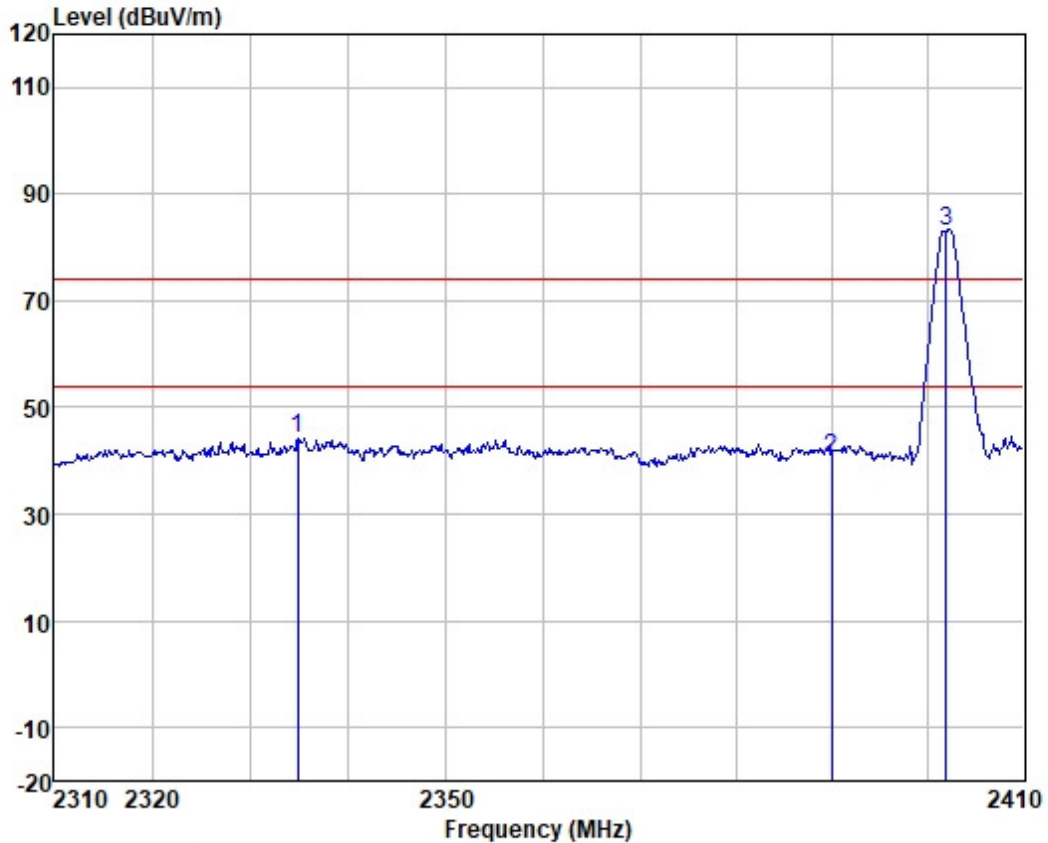


	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2382.783	49.43	27.67	3.44	37.77	42.77	74.00	-31.23	VERTICAL peak
2	2390.000	48.94	27.68	3.44	37.77	42.29	74.00	-31.71	VERTICAL peak
3 *	2402.000	94.22	27.71	3.45	37.77	87.61	74.00	13.61	VERTICAL peak





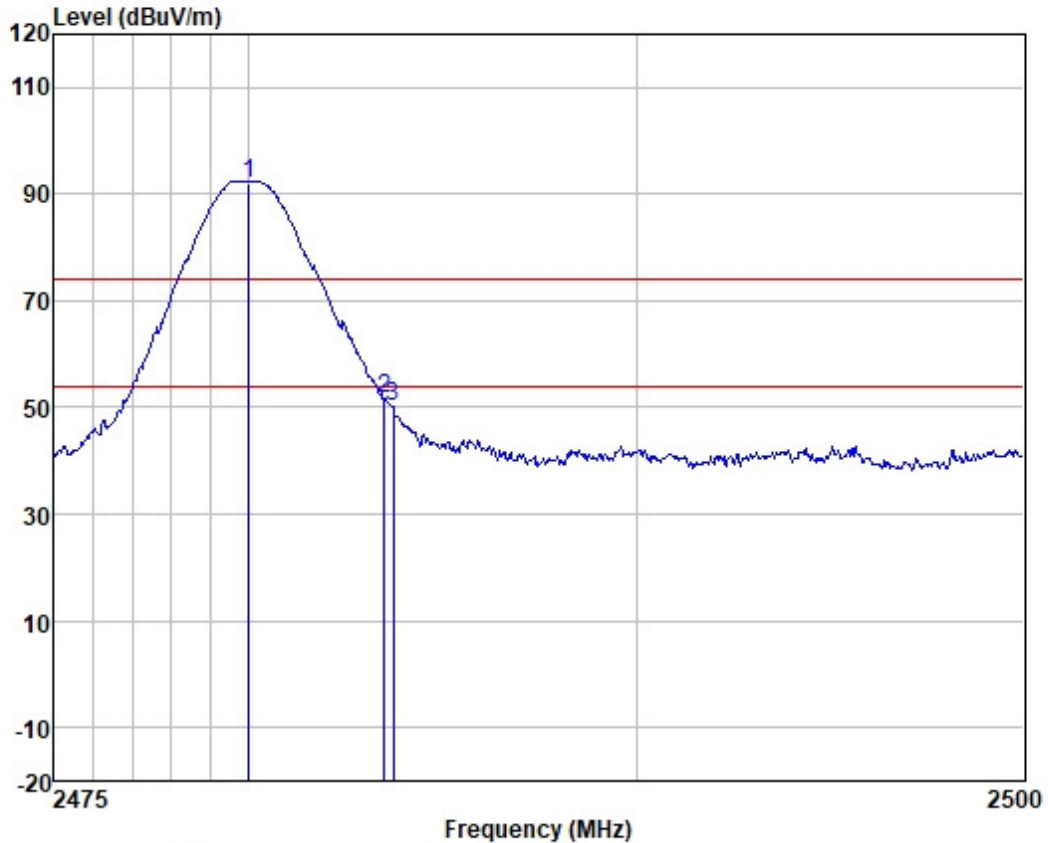
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2334.802	50.89	27.55	3.41	37.77	44.08	74.00	-29.92	HORIZONTAL	peak
2 2390.000	46.97	27.68	3.44	37.77	40.32	74.00	-33.68	HORIZONTAL	peak
3 * 2402.000	89.78	27.71	3.45	37.77	83.17	74.00	9.17	HORIZONTAL	peak



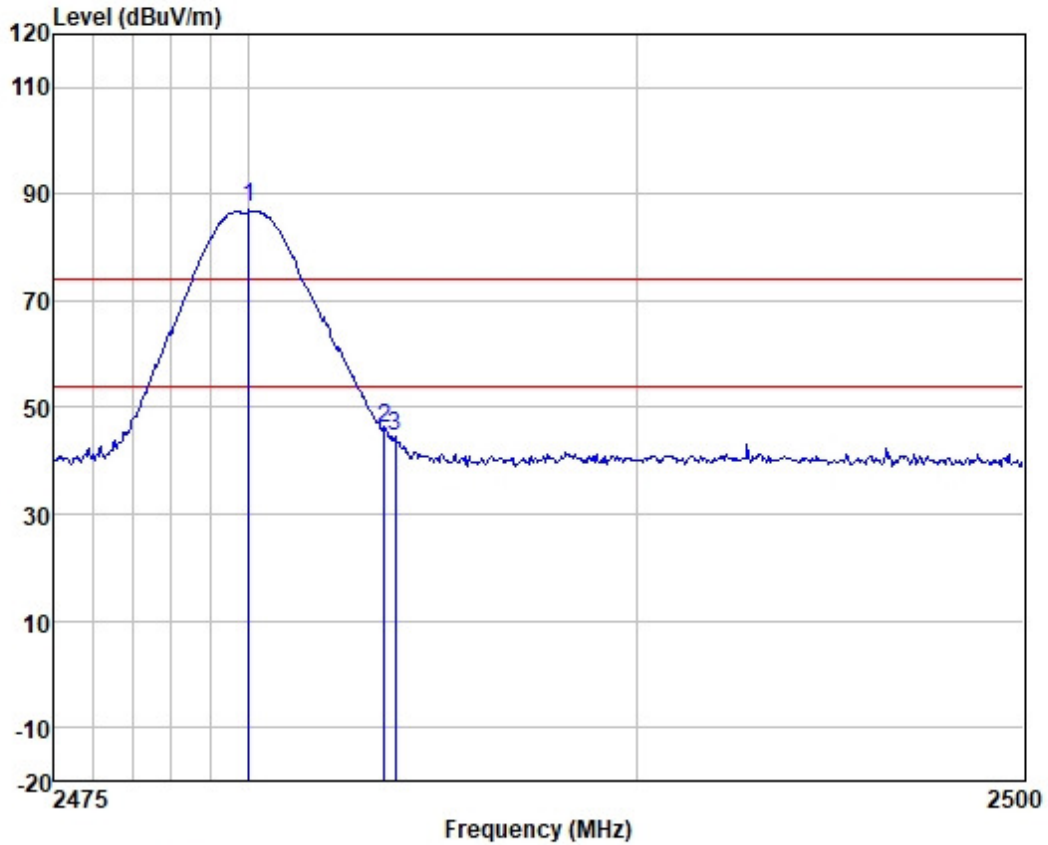
Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	98.53	27.84	3.48	37.76	92.09	74.00	18.09	VERTICAL peak
2	2483.500	58.01	27.85	3.49	37.76	51.59	74.00	-22.41	VERTICAL peak
3	2483.721	56.51	27.85	3.49	37.76	50.09	74.00	-23.91	VERTICAL peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	93.80	27.84	3.48	37.76	87.36	74.00	13.36	HORIZONTAL peak
2	2483.500	52.65	27.85	3.49	37.76	46.23	74.00	-27.77	HORIZONTAL peak
3	2483.771	50.86	27.85	3.49	37.76	44.44	74.00	-29.56	HORIZONTAL peak



## 7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Test Distance: 3 m

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 59.8 % RH

Atmospheric Pressure: 1020 mbar

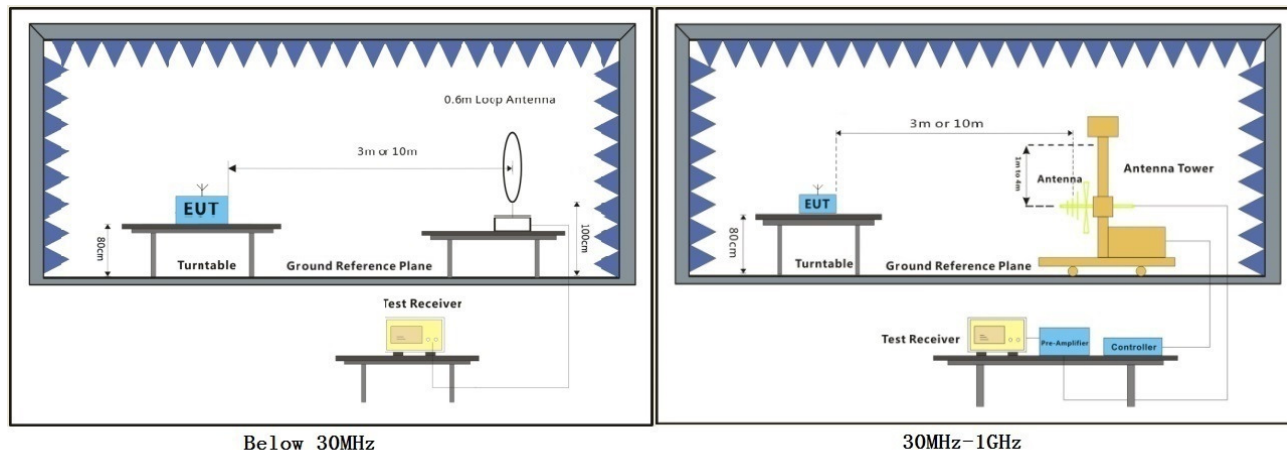
### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.





### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamplifier Factor



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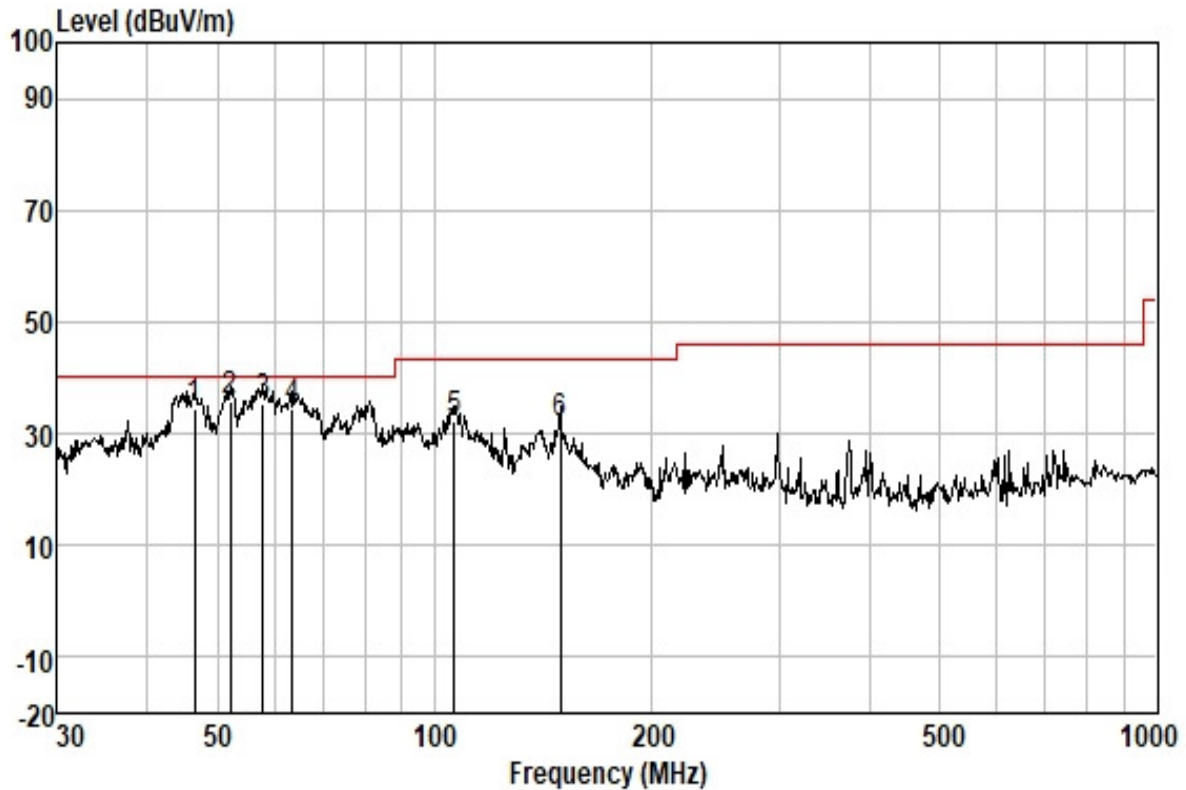
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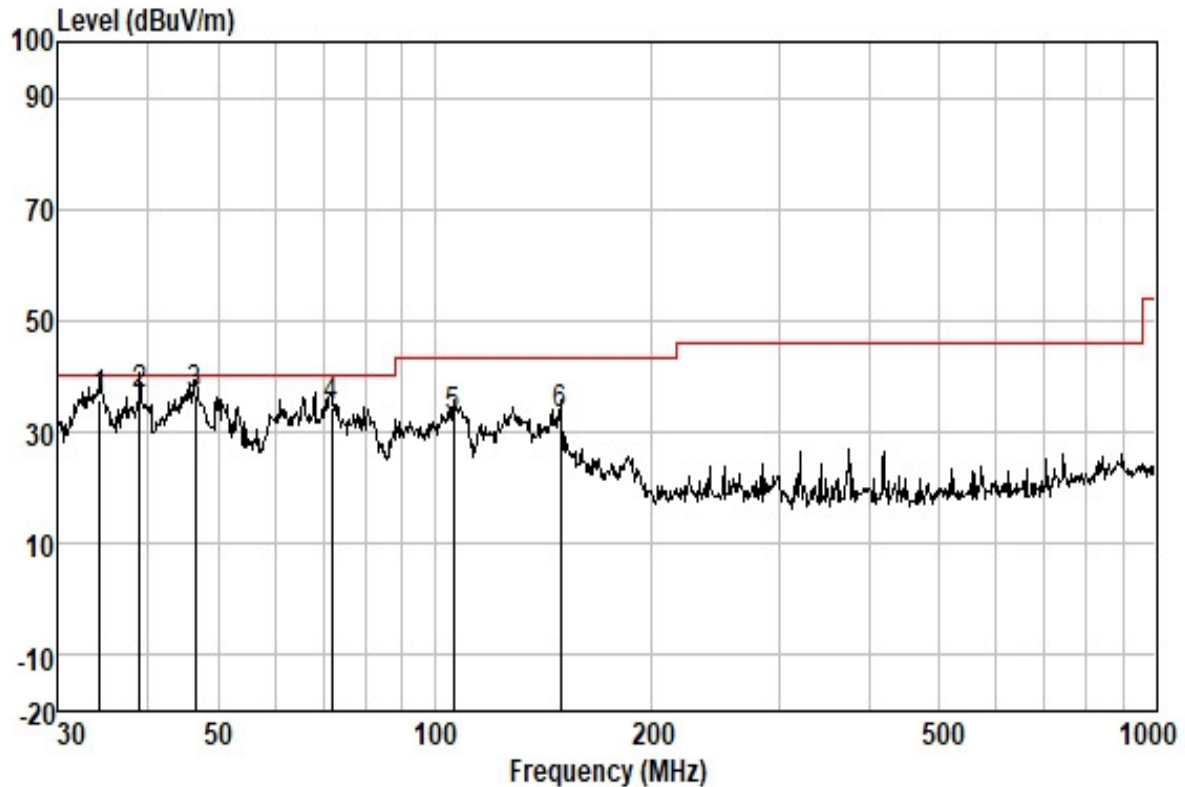
Test Mode: 00; Polarity: Horizontal



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.503	53.49	9.86	0.70	29.60	34.45	40.00	-5.55	HORIZONTAL	QP
2	52.025	56.94	7.54	0.75	29.60	35.63	40.00	-4.37	HORIZONTAL	QP
3	57.796	57.67	6.41	0.80	29.59	35.29	40.00	-4.71	HORIZONTAL	QP
4	63.536	57.16	6.20	0.80	29.59	34.57	40.00	-5.43	HORIZONTAL	QP
5	106.385	48.73	11.72	1.13	29.54	32.04	43.50	-11.46	HORIZONTAL	QP
6	148.963	49.61	10.57	1.30	29.51	31.97	43.50	-11.53	HORIZONTAL	QP



Test Mode: 00; Polarity: Vertical



	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	34.276	48.74	15.86	0.60	29.57	35.63	40.00	-4.37	VERTICAL	QP
2	38.888	51.99	13.69	0.70	29.58	36.80	40.00	-3.20	VERTICAL	QP
3	46.503	55.53	9.86	0.70	29.60	36.49	40.00	-3.51	VERTICAL	QP
4	71.832	56.52	6.43	0.90	29.58	34.27	40.00	-5.73	VERTICAL	QP
5	106.013	49.39	11.69	1.13	29.54	32.67	43.50	-10.83	VERTICAL	QP
6	148.963	50.60	10.57	1.30	29.51	32.96	43.50	-10.54	VERTICAL	QP





### 7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

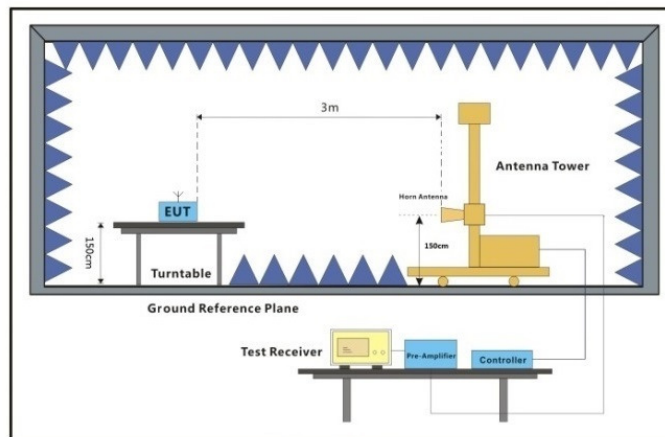
Humidity: 51.8 % RH

Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan 01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.4.3 Test Setup Diagram



Above 1GHz





## 7.4.4 Measurement Procedure and Data

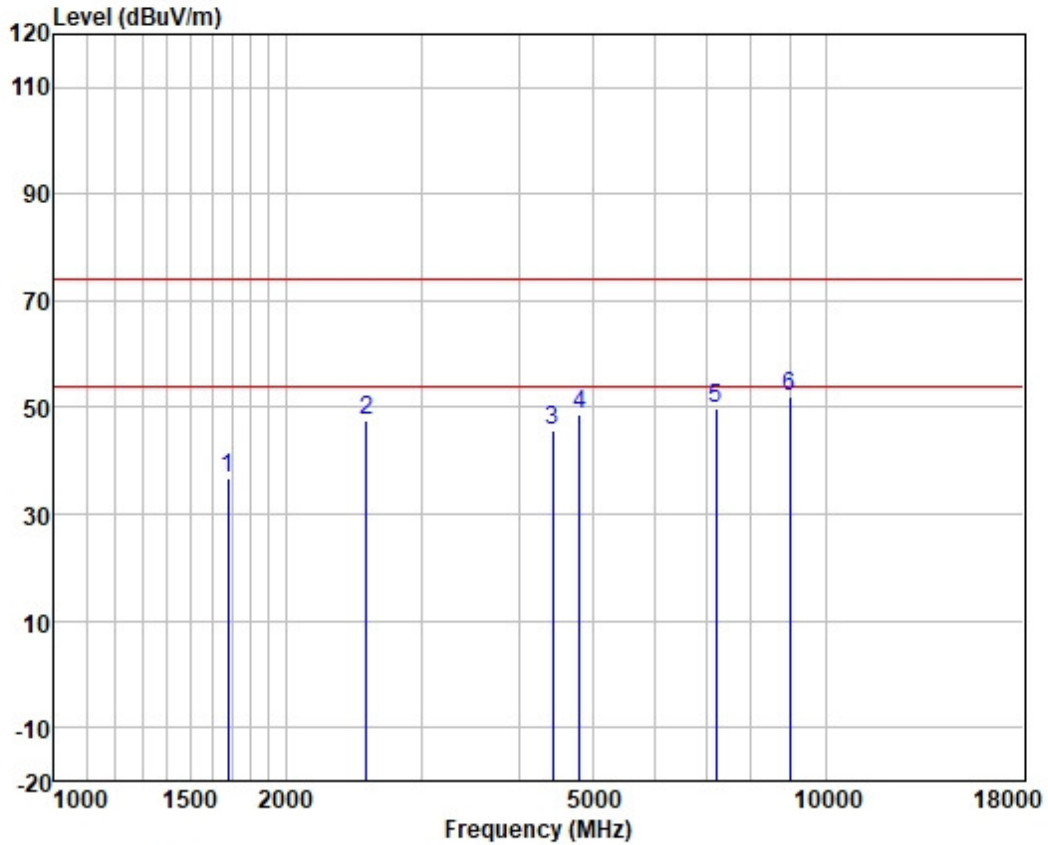
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, 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  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



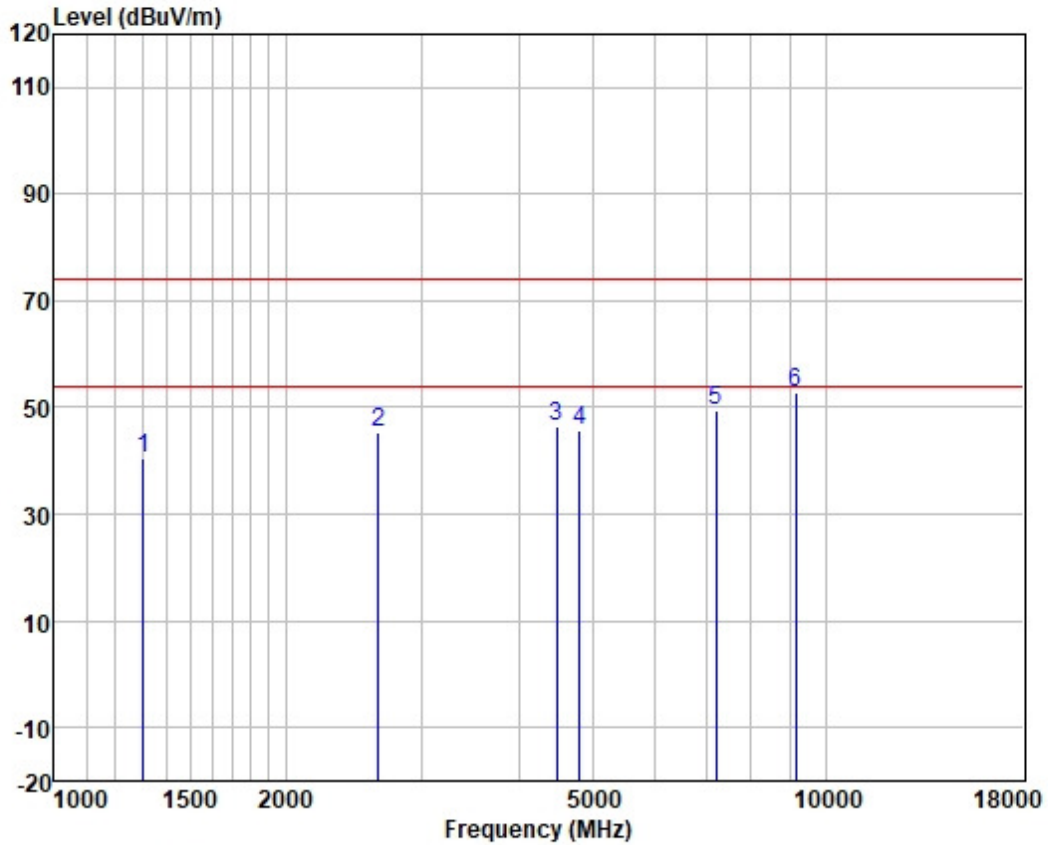
Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low



	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	46.93	25.03	2.83	38.05	36.74	74.00	-37.26	VERTICAL	peak
2	2543.625	53.93	27.92	3.51	37.75	47.61	74.00	-26.39	VERTICAL	peak
3	4430.628	44.60	33.87	4.61	37.45	45.63	74.00	-28.37	VERTICAL	peak
4	4804.000	47.17	34.16	4.81	37.38	48.76	74.00	-25.24	VERTICAL	peak
5	7206.000	45.30	35.63	5.93	37.17	49.69	74.00	-24.31	VERTICAL	peak
6	8995.123	45.22	37.59	6.57	37.15	52.23	74.00	-21.77	VERTICAL	peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low

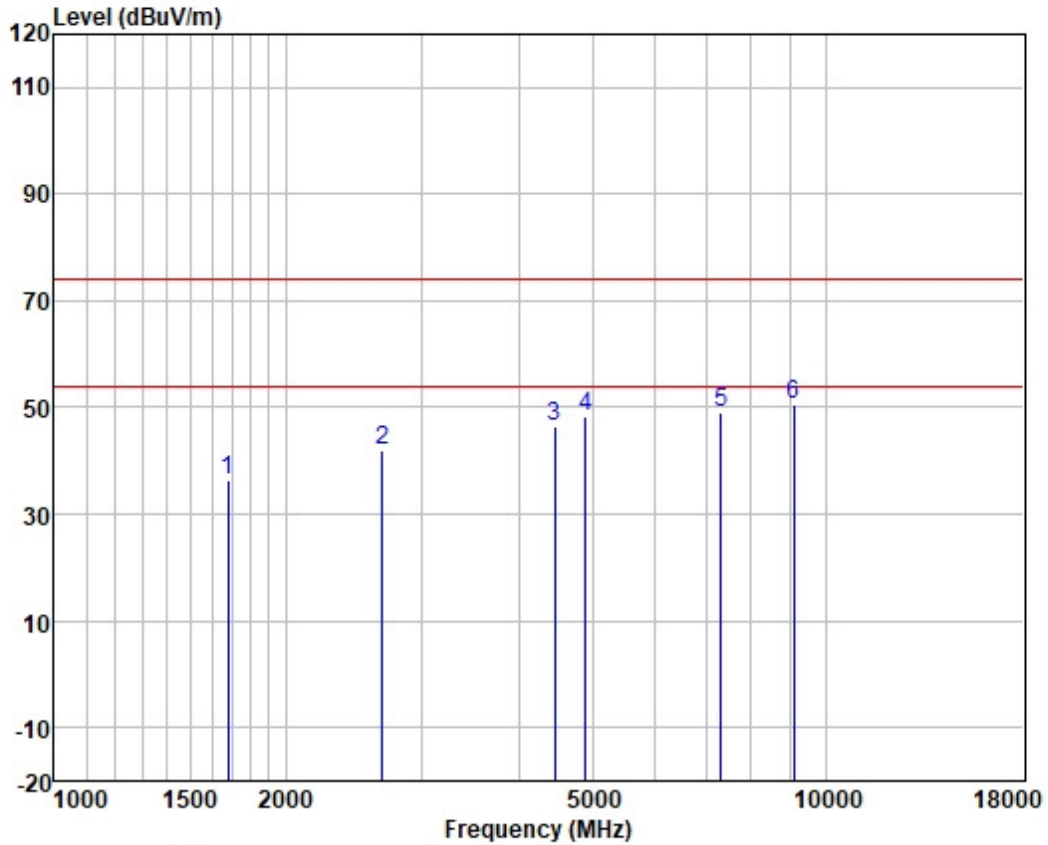


	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1304.623	52.30	23.99	2.59	38.58	40.30	74.00	-33.70	HORIZONTAL peak
2	2633.397	51.64	28.04	3.56	37.74	45.50	74.00	-28.50	HORIZONTAL peak
3	4482.150	45.01	34.12	4.62	37.44	46.31	74.00	-27.69	HORIZONTAL peak
4	4804.000	44.07	34.16	4.81	37.38	45.66	74.00	-28.34	HORIZONTAL peak
5	7206.000	45.08	35.63	5.93	37.17	49.47	74.00	-24.53	HORIZONTAL peak
6	9152.479	45.38	37.85	6.68	37.13	52.78	74.00	-21.22	HORIZONTAL peak





Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle

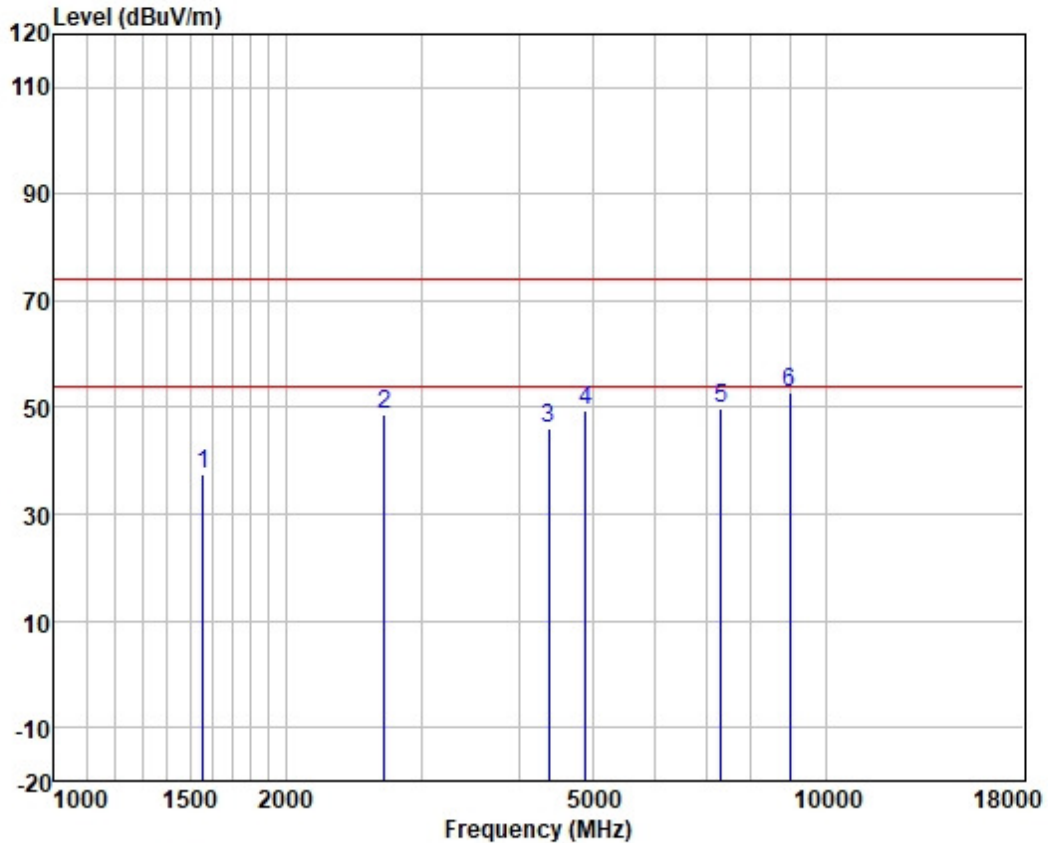


	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	46.52	25.03	2.83	38.05	36.33	74.00	-37.67	VERTICAL peak
2	2664.019	47.93	28.09	3.58	37.74	41.86	74.00	-32.14	VERTICAL peak
3	4456.315	45.35	34.00	4.61	37.45	46.51	74.00	-27.49	VERTICAL peak
4	4880.000	46.85	34.15	4.85	37.35	48.50	74.00	-25.50	VERTICAL peak
5	7320.000	44.28	36.07	5.98	37.18	49.15	74.00	-24.85	VERTICAL peak
6	9099.724	43.39	37.75	6.64	37.14	50.64	74.00	-23.36	VERTICAL peak





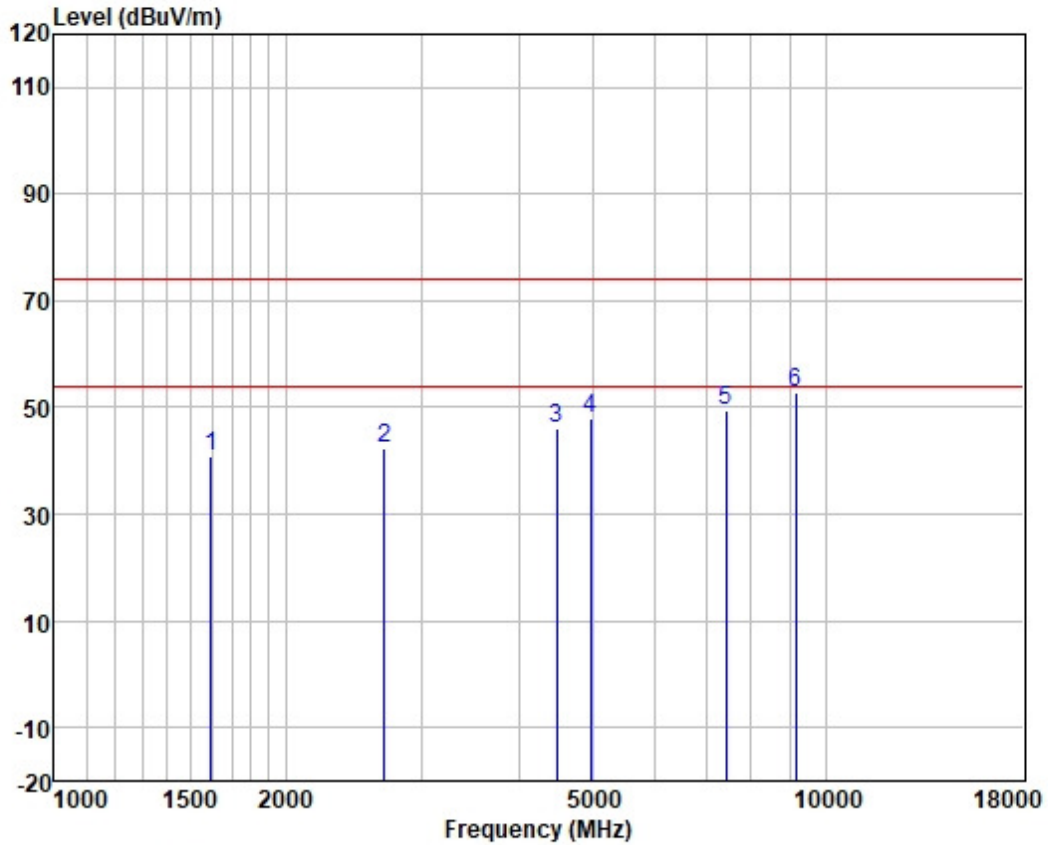
Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1560.673	48.38	24.57	2.73	38.20	37.48	74.00	-36.52	HORIZONTAL peak
2	2679.464	54.57	28.12	3.59	37.73	48.55	74.00	-25.45	HORIZONTAL peak
3	4379.699	45.21	33.59	4.60	37.46	45.94	74.00	-28.06	HORIZONTAL peak
4	4880.000	47.90	34.15	4.85	37.35	49.55	74.00	-24.45	HORIZONTAL peak
5	7320.000	44.91	36.07	5.98	37.18	49.78	74.00	-24.22	HORIZONTAL peak
6	8995.123	45.89	37.59	6.57	37.15	52.90	74.00	-21.10	HORIZONTAL peak



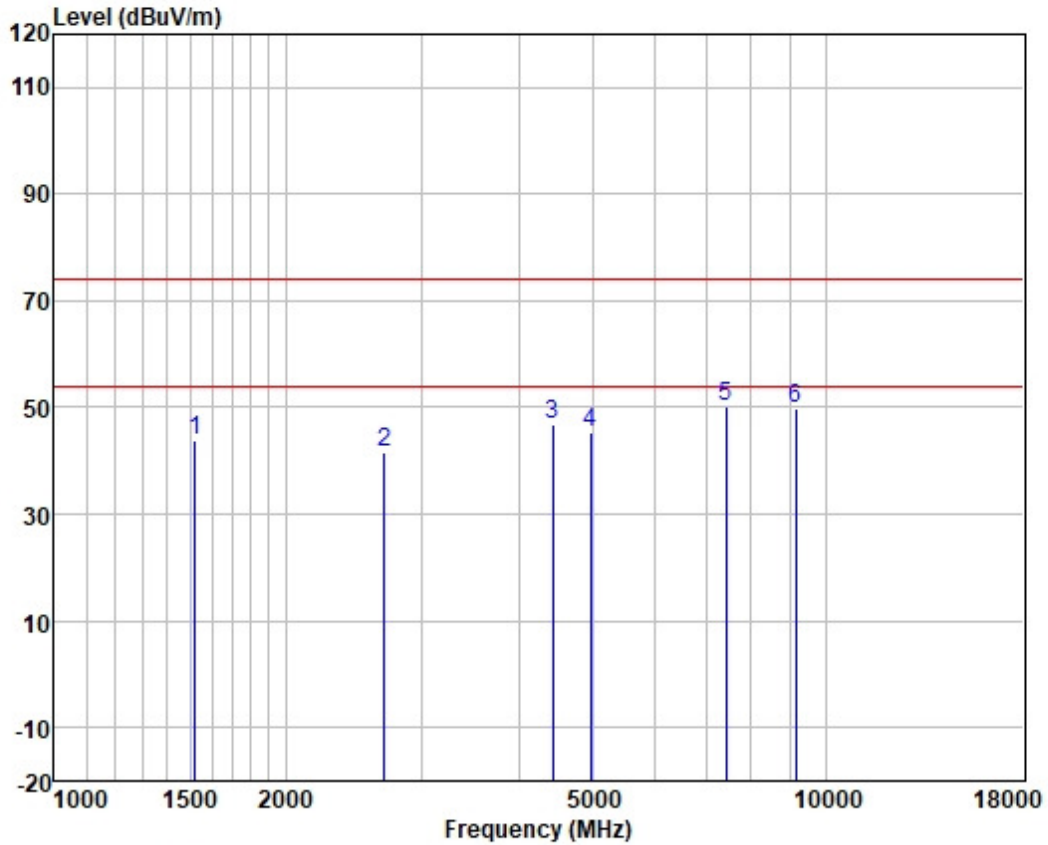
Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1597.181	51.70	24.68	2.75	38.15	40.98	74.00	-33.02	VERTICAL peak
2	2679.464	48.18	28.12	3.59	37.73	42.16	74.00	-31.84	VERTICAL peak
3	4482.150	44.70	34.12	4.62	37.44	46.00	74.00	-28.00	VERTICAL peak
4	4960.000	46.34	34.15	4.89	37.32	48.06	74.00	-25.94	VERTICAL peak
5	7440.000	44.36	36.33	6.02	37.18	49.53	74.00	-24.47	VERTICAL peak
6	9152.479	45.24	37.85	6.68	37.13	52.64	74.00	-21.36	VERTICAL peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1525.000	54.95	24.49	2.71	38.26	43.89	74.00	-30.11	HORIZONTAL peak
2	2679.464	47.56	28.12	3.59	37.73	41.54	74.00	-32.46	HORIZONTAL peak
3	4430.628	45.92	33.87	4.61	37.45	46.95	74.00	-27.05	HORIZONTAL peak
4	4960.000	43.59	34.15	4.89	37.32	45.31	74.00	-28.69	HORIZONTAL peak
5	7440.000	44.96	36.33	6.02	37.18	50.13	74.00	-23.87	HORIZONTAL peak
6	9152.479	42.39	37.85	6.68	37.13	49.79	74.00	-24.21	HORIZONTAL peak





### 7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

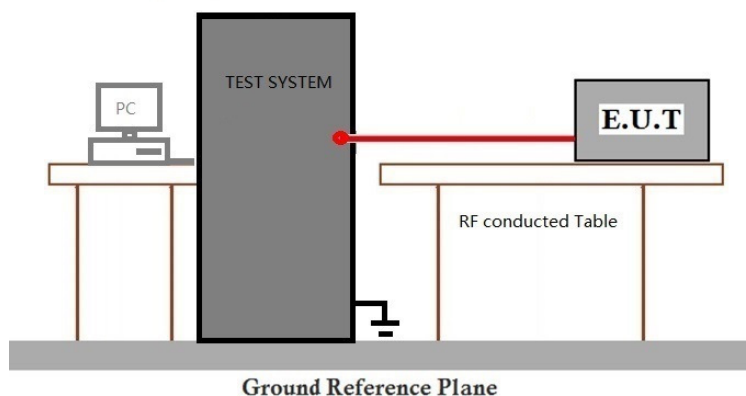
Humidity: 67.4 % RH

Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test 01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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### 7.6 Minimum 6dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

#### 7.6.1 E.U.T. Operation

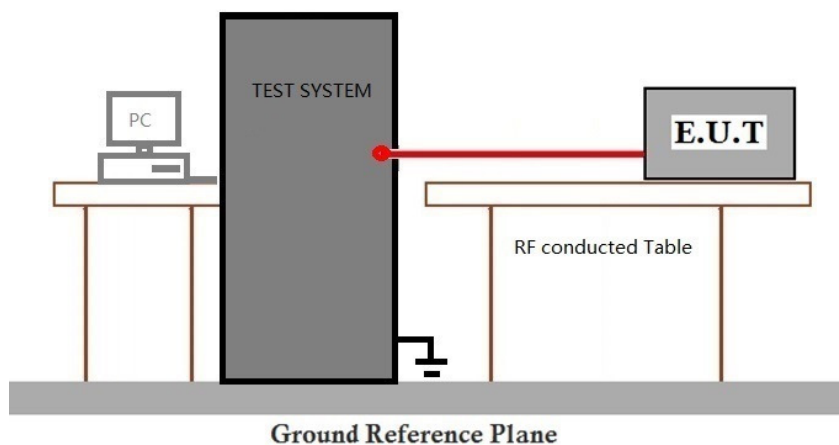
Operating Environment:

Temperature: 23.2 °C Humidity: 66.6 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test 01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)  
 Test Method: ANSI C63.10 (2013) Section 11.10.2  
 Limit:  
 ≤8dBm in any 3 kHz band during any time interval of continuous transmission

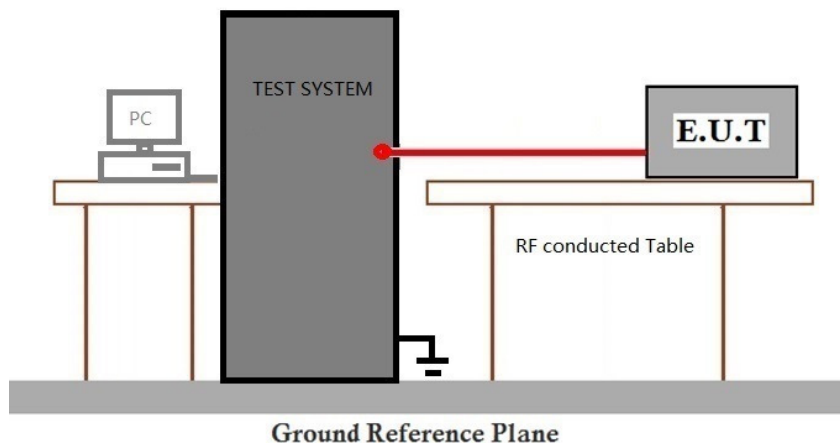
#### 7.7.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.2 °C Humidity: 66.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.7.3 Test Setup Diagram



#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

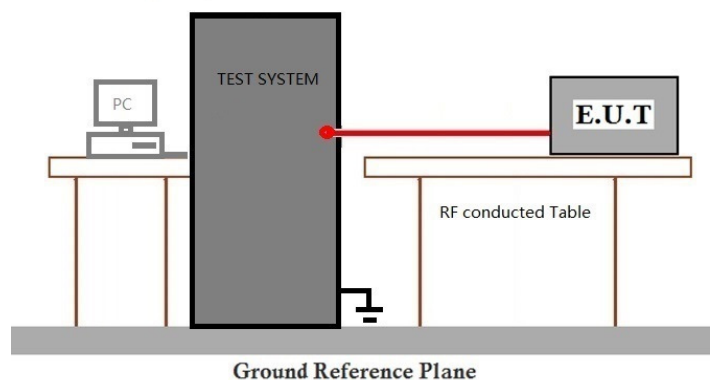
Humidity: 66.1 % RH

Atmospheric Pressure: 1020 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.8.3 Test Setup Diagram



#### 7.8.4 Measurement Procedure and Data

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### 7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

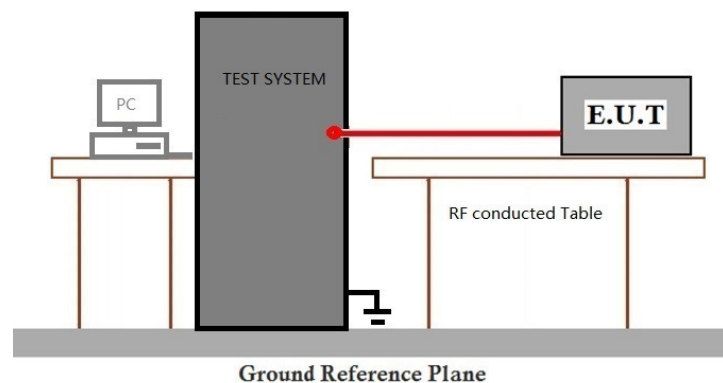
Humidity: 66.0 % RH

Atmospheric Pressure: 1020 mbar

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.9.3 Test Setup Diagram



#### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Test Setup Photos for GZCR250300031402



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## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2503000314MD



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

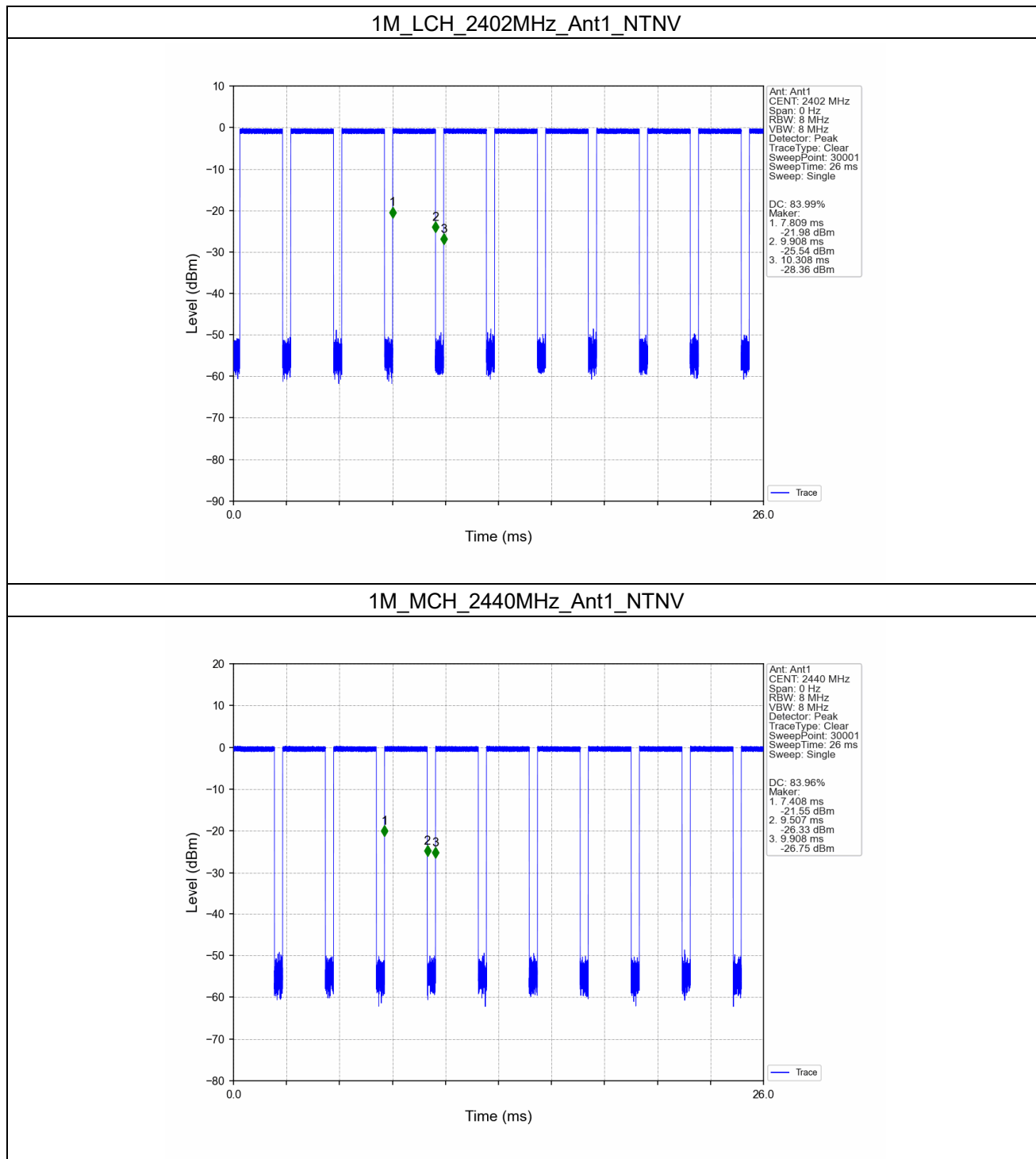
##### 1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.099	2.499	83.99	0.76	0.03
		2440	2.099	2.500	83.96	0.76	0.03
		2480	2.099	2.499	83.99	0.76	0.03
2M	SISO	2402	1.063	1.875	56.69	2.46	0.03
		2440	1.064	1.876	56.72	2.46	0.03
		2480	1.063	1.875	56.69	2.46	0.03



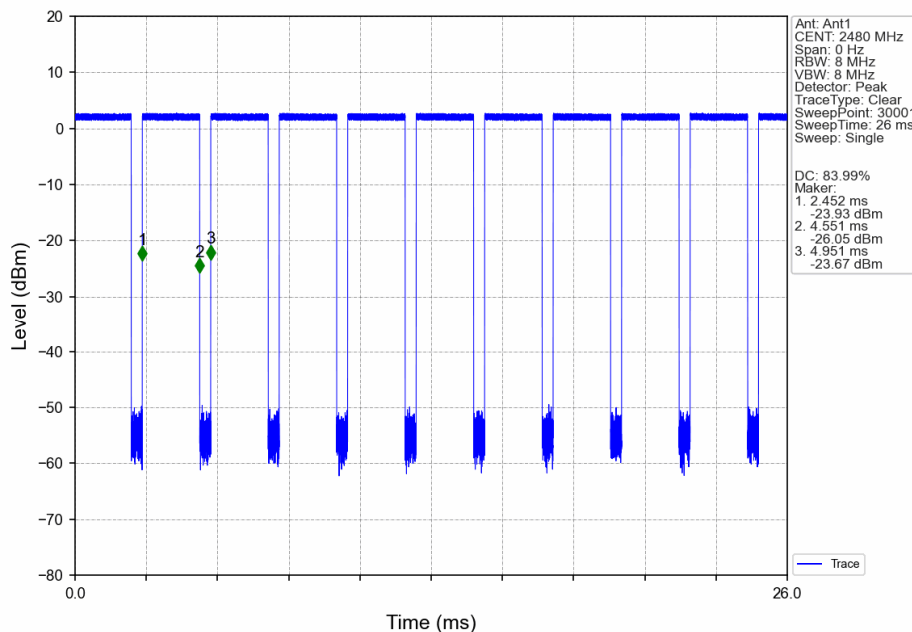
### 1.2 Test Graph

#### 1.2.1 Ant1

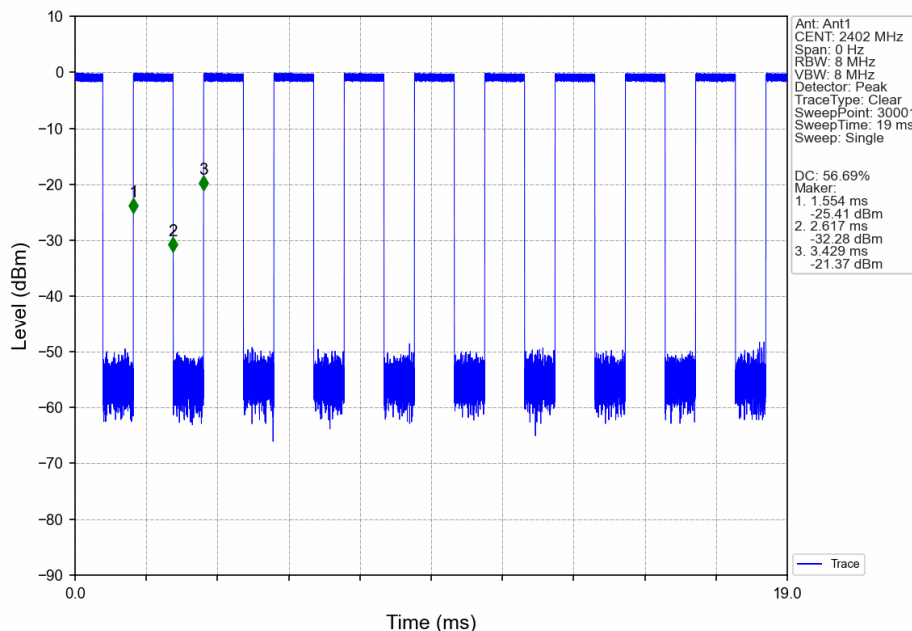




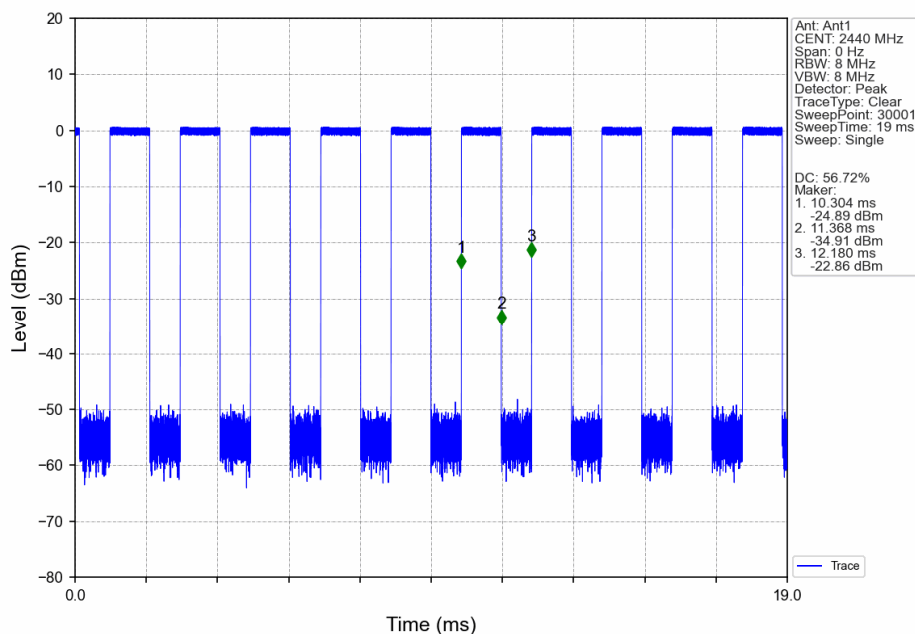
### 1M\_HCH\_2480MHz\_Ant1\_NTNV



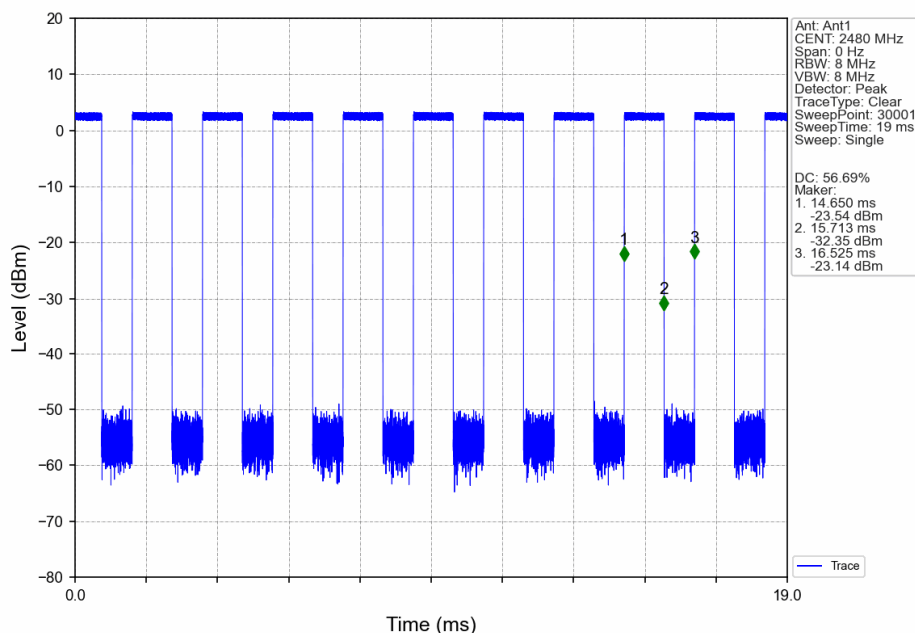
### 2M\_LCH\_2402MHz\_Ant1\_NTNV



### 2M\_MCH\_2440MHz\_Ant1\_NTNV



### 2M\_HCH\_2480MHz\_Ant1\_NTNV



## 2. Bandwidth

### 2.1 Test Result

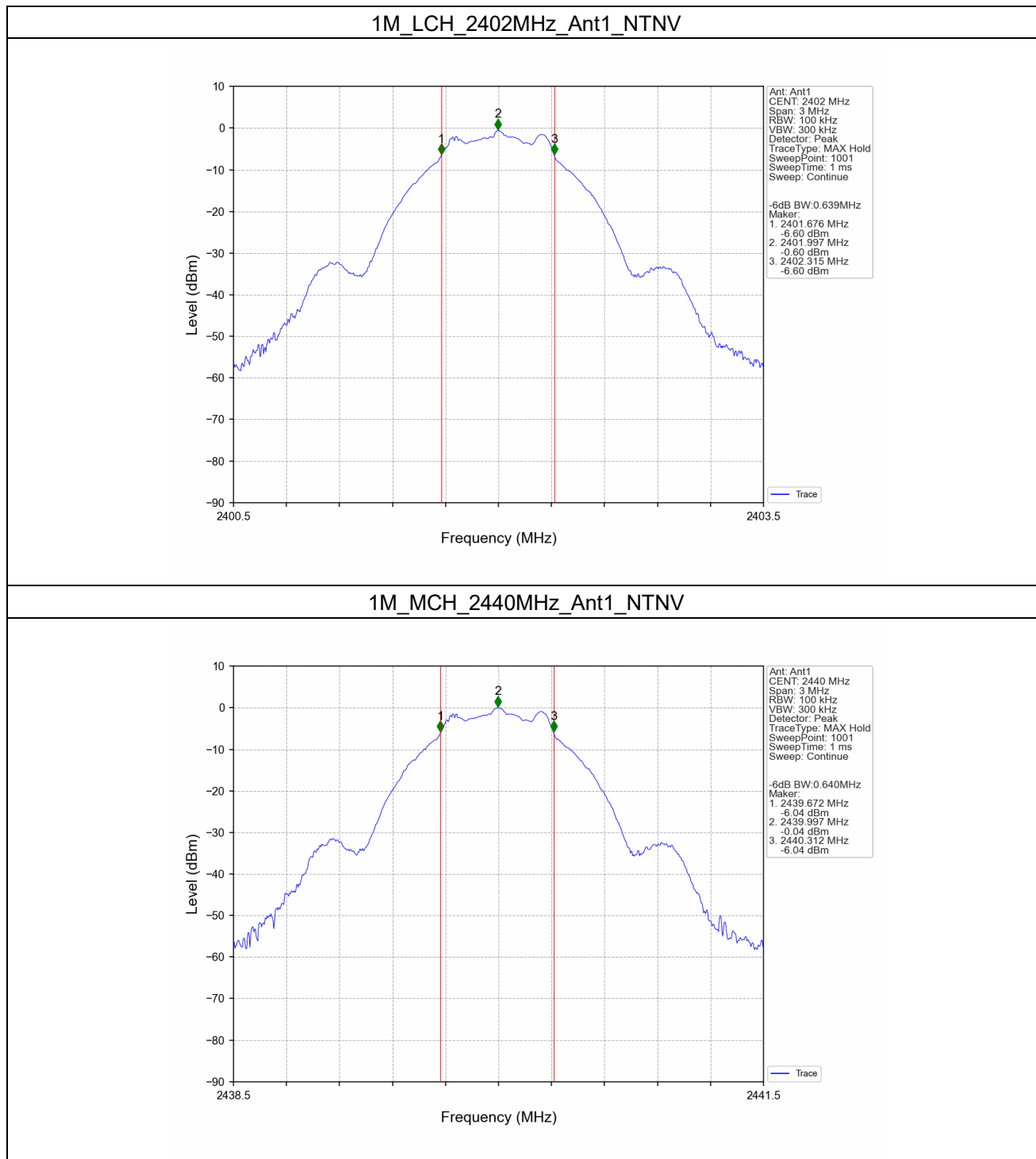
#### 2.1.1 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.639	>=0.5	Pass
		2440	1	0.640	>=0.5	Pass
		2480	1	0.638	>=0.5	Pass
2M	SISO	2402	1	1.119	>=0.5	Pass
		2440	1	1.117	>=0.5	Pass
		2480	1	1.118	>=0.5	Pass



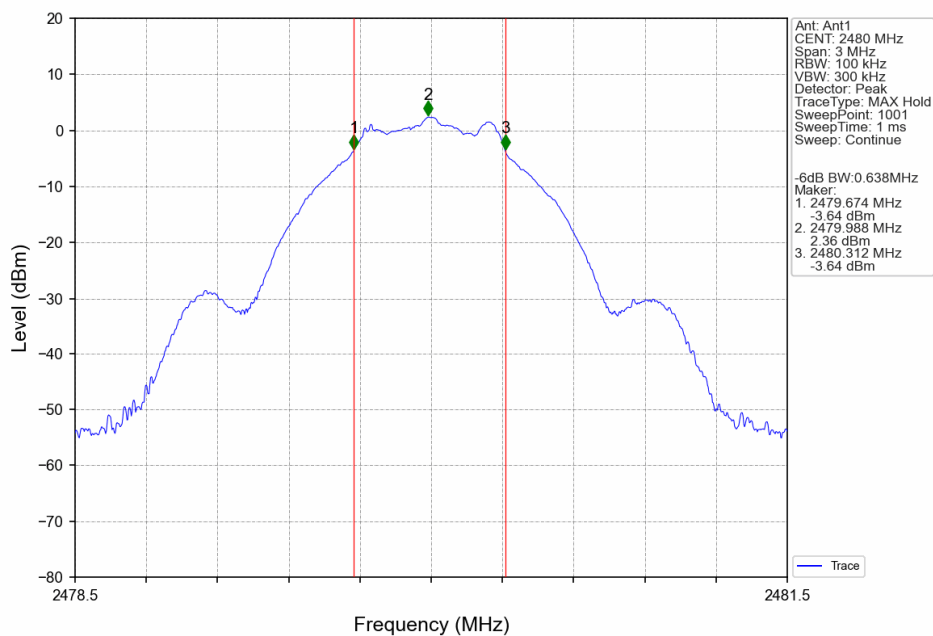
## 2.2 Test Graph

### 2.2.1 6dB BW

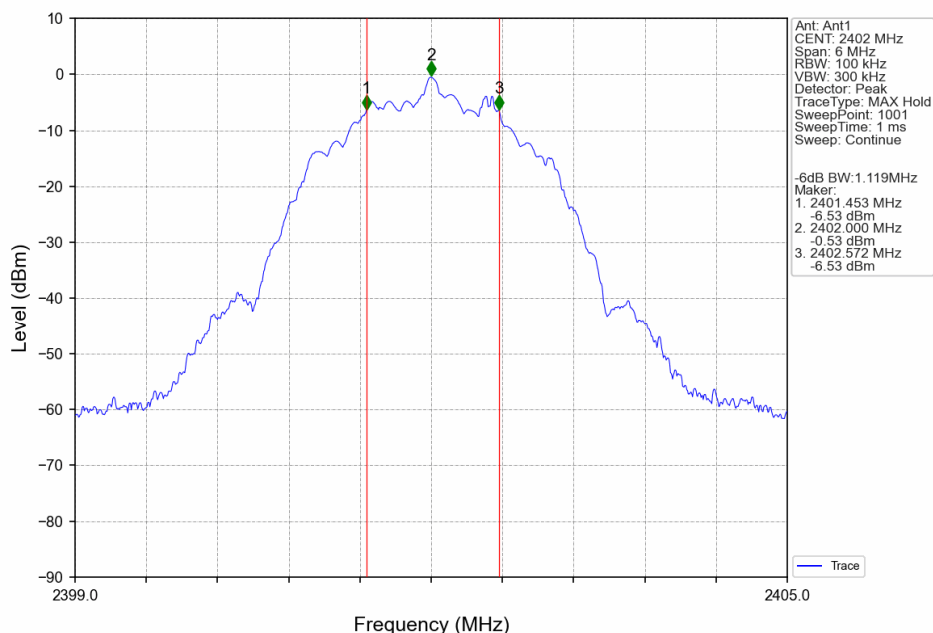




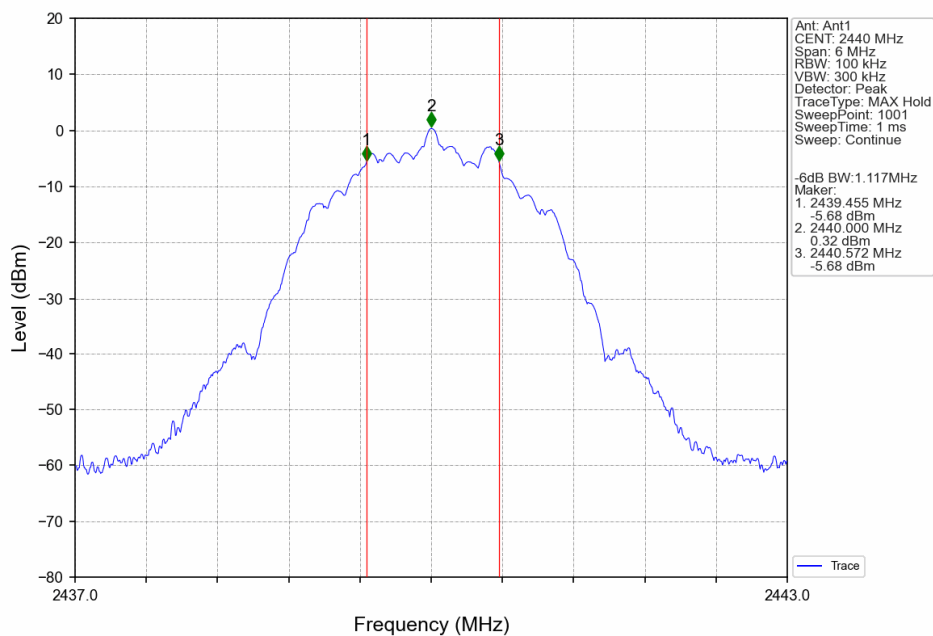
### 1M\_HCH\_2480MHz\_Ant1\_NTNV



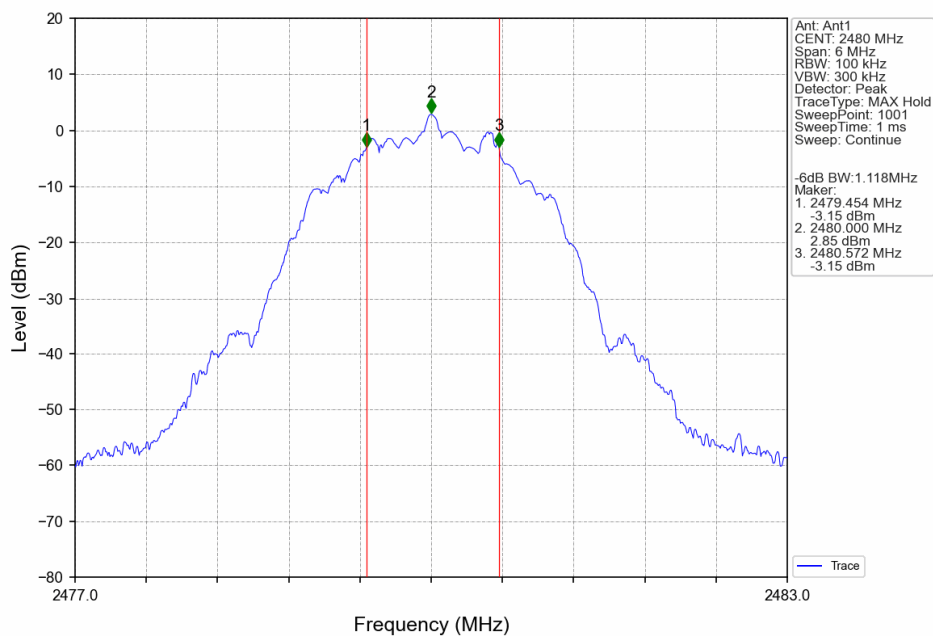
### 2M\_LCH\_2402MHz\_Ant1\_NTNV



### 2M\_MCH\_2440MHz\_Ant1\_NTNV



### 2M\_HCH\_2480MHz\_Ant1\_NTNV



### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.67	<=30	Pass
		2440	0.03	<=30	Pass
		2480	2.48	<=30	Pass
2M	SISO	2402	-0.43	<=30	Pass
		2440	0.30	<=30	Pass
		2480	2.94	<=30	Pass

Note1: Antenna Gain: Ant1: 2.03dBi;



## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-15.63	<=8	Pass
		2440	-15.13	<=8	Pass
		2480	-12.59	<=8	Pass
2M	SISO	2402	-17.90	<=8	Pass
		2440	-17.05	<=8	Pass
		2480	-14.85	<=8	Pass

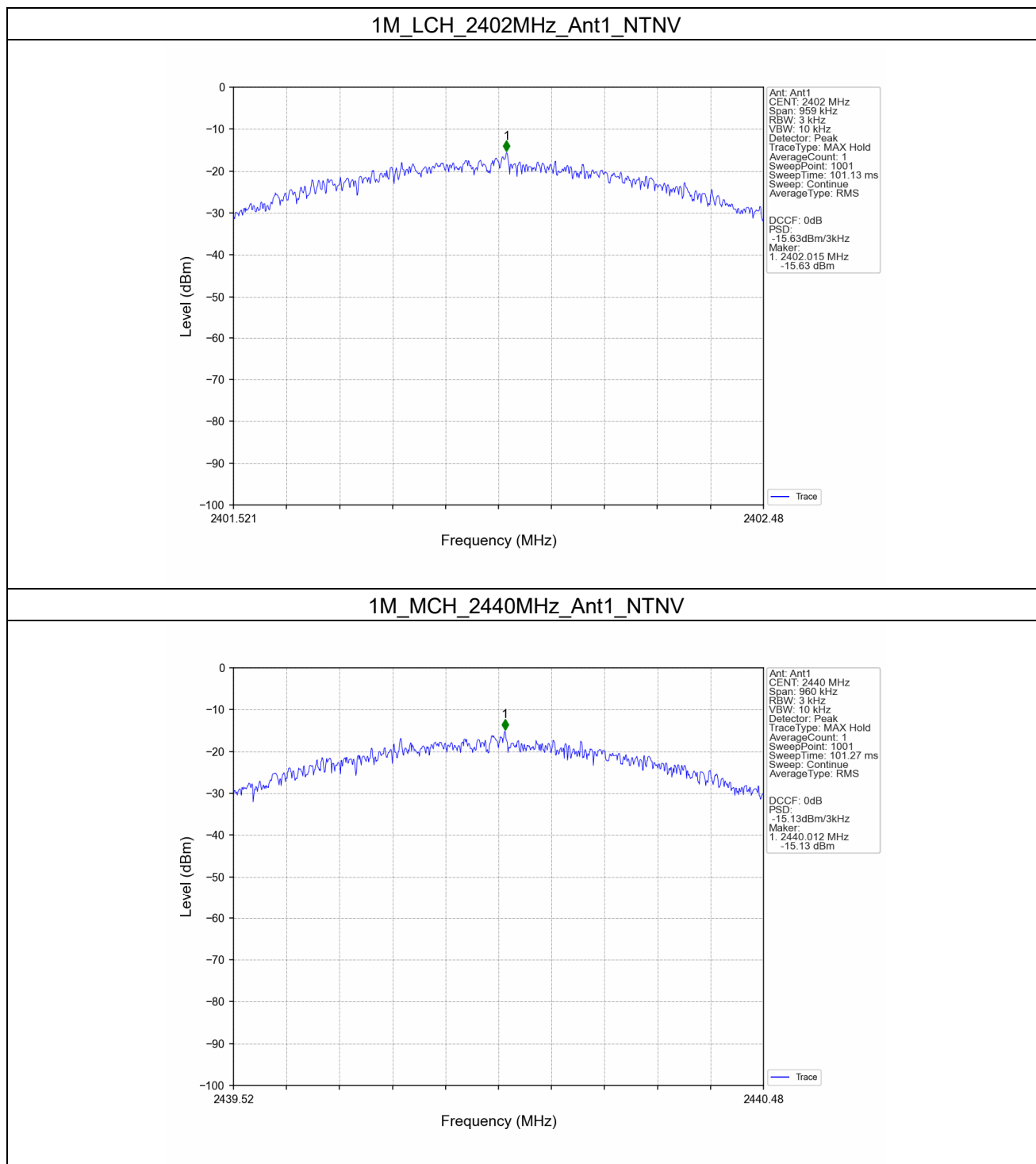
Note1: Antenna Gain: Ant1: 2.03dBi;



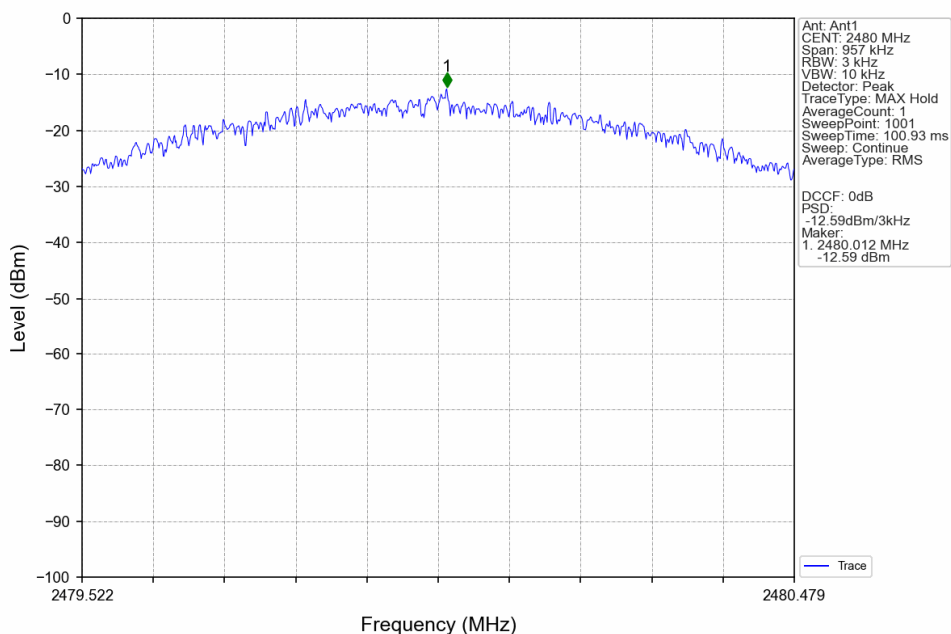


### 4.2 Test Graph

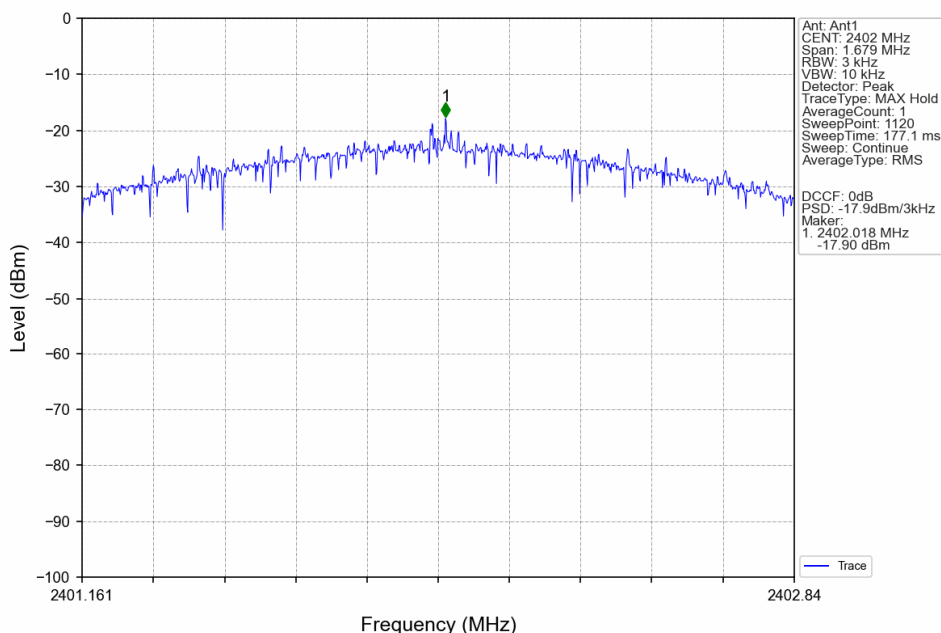
#### 4.2.1 PSD



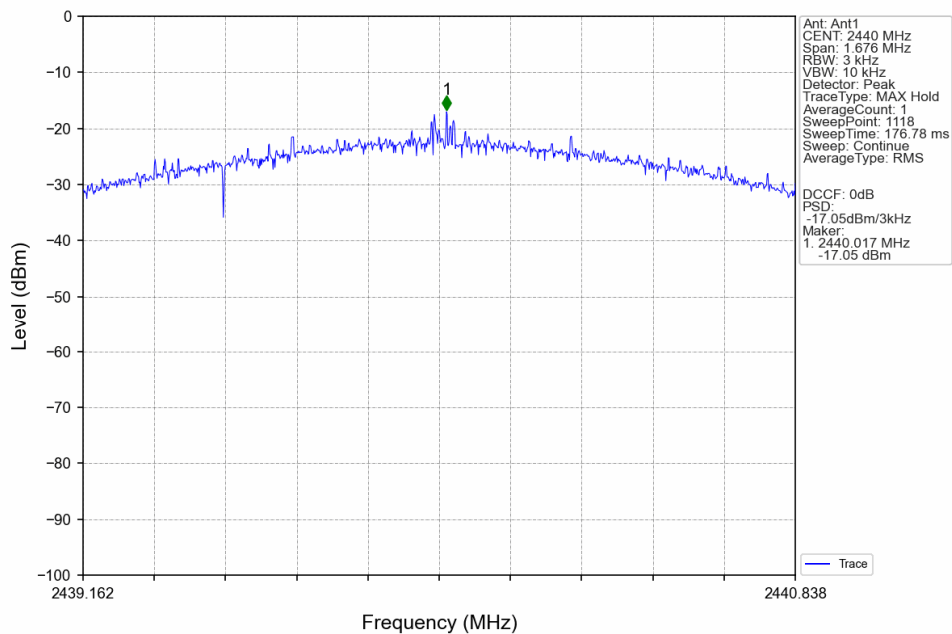
### 1M\_HCH\_2480MHz\_Ant1\_NTNV



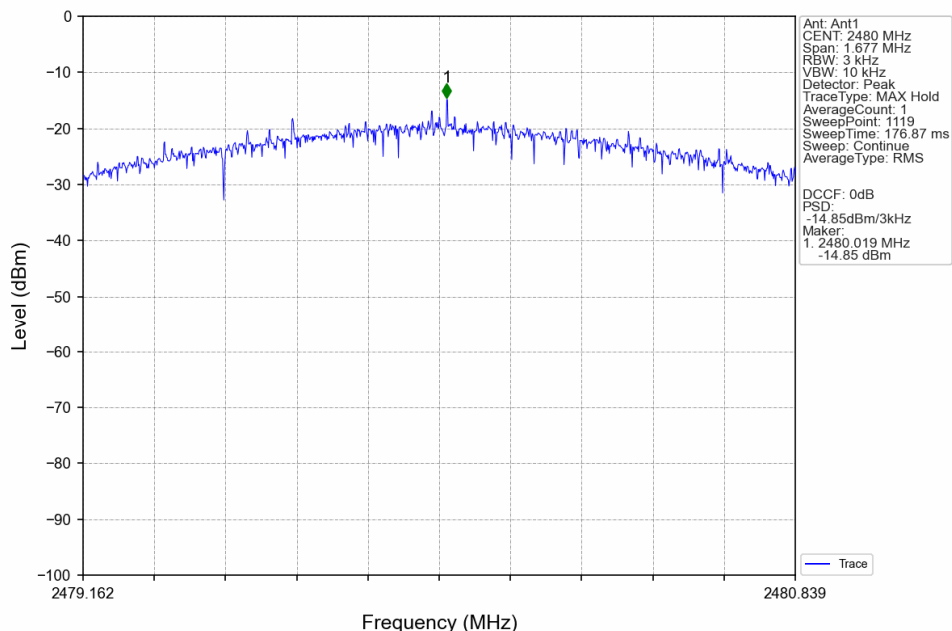
### 2M\_LCH\_2402MHz\_Ant1\_NTNV



### 2M\_MCH\_2440MHz\_Ant1\_NTNV



### 2M\_HCH\_2480MHz\_Ant1\_NTNV



## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-0.60
		2440	1	-0.20
		2480	1	2.34
2M	SISO	2402	1	-0.60
		2440	1	0.20
		2480	1	2.88

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

#### 5.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	2.34	-17.66	Pass
		2440	1	2.34	-17.66	Pass
		2480	1	2.34	-17.66	Pass
2M	SISO	2402	1	2.88	-17.12	Pass
		2440	1	2.88	-17.12	Pass
		2480	1	2.88	-17.12	Pass

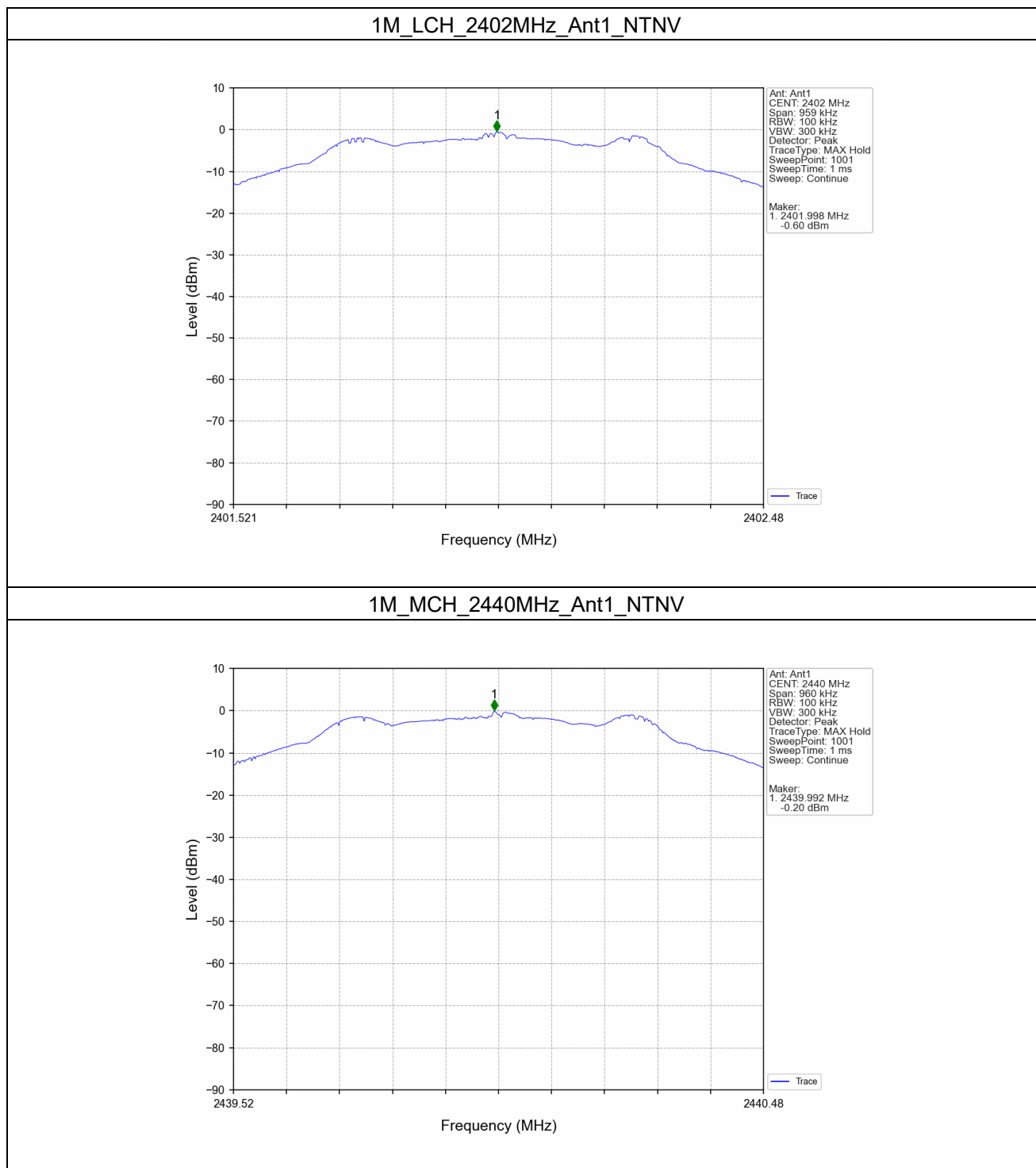
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



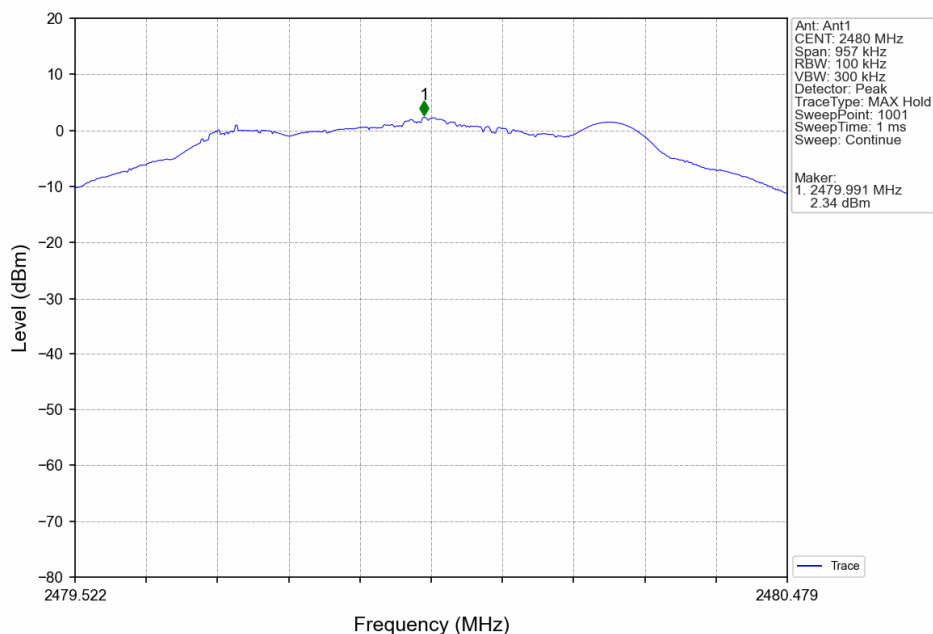


### 5.2 Test Graph

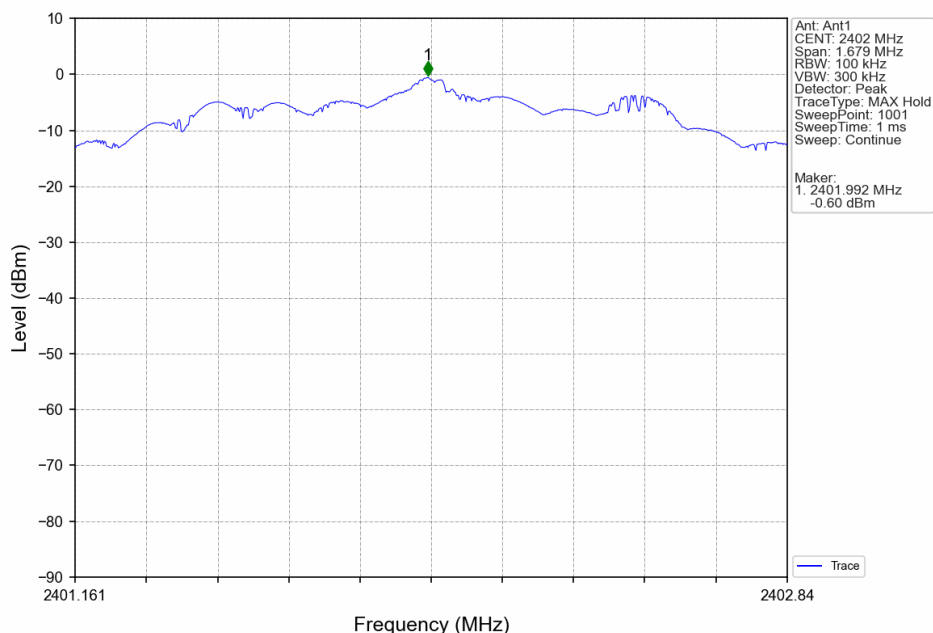
#### 5.2.1 Ref



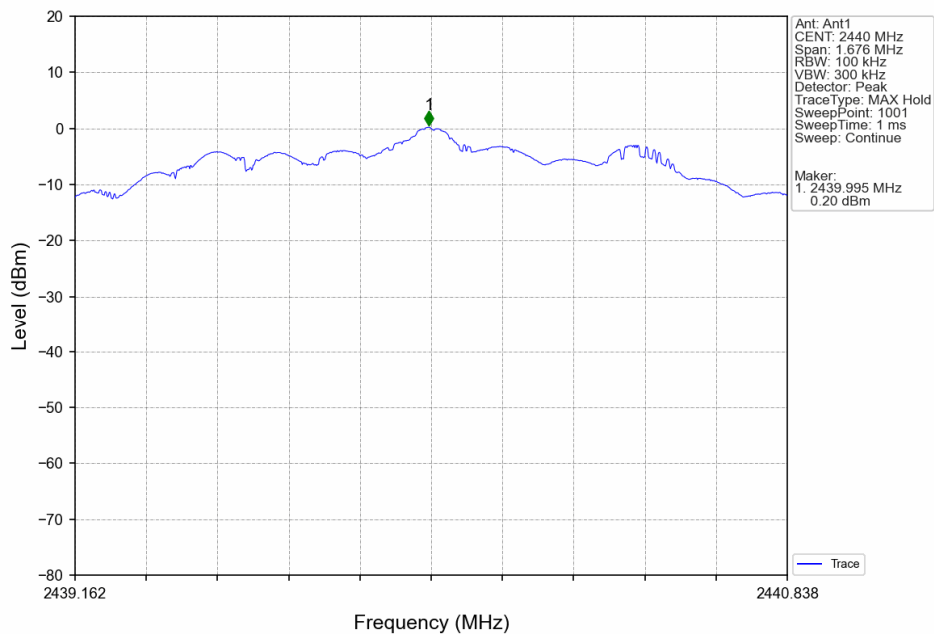
1M\_HCH\_2480MHz\_Ant1\_NTNV



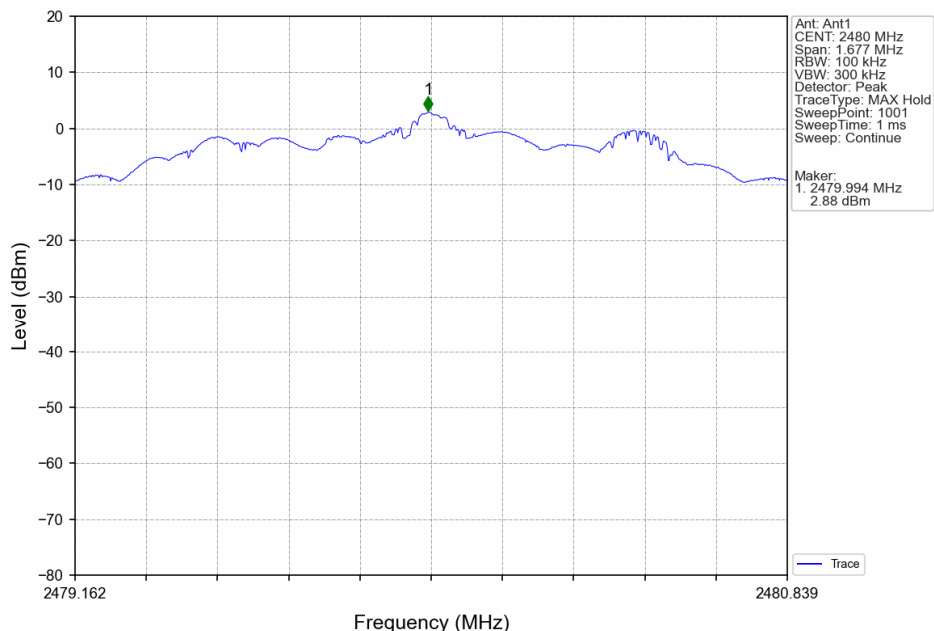
2M\_LCH\_2402MHz\_Ant1\_NTNV



### 2M\_MCH\_2440MHz\_Ant1\_NTNV



### 2M\_HCH\_2480MHz\_Ant1\_NTNV



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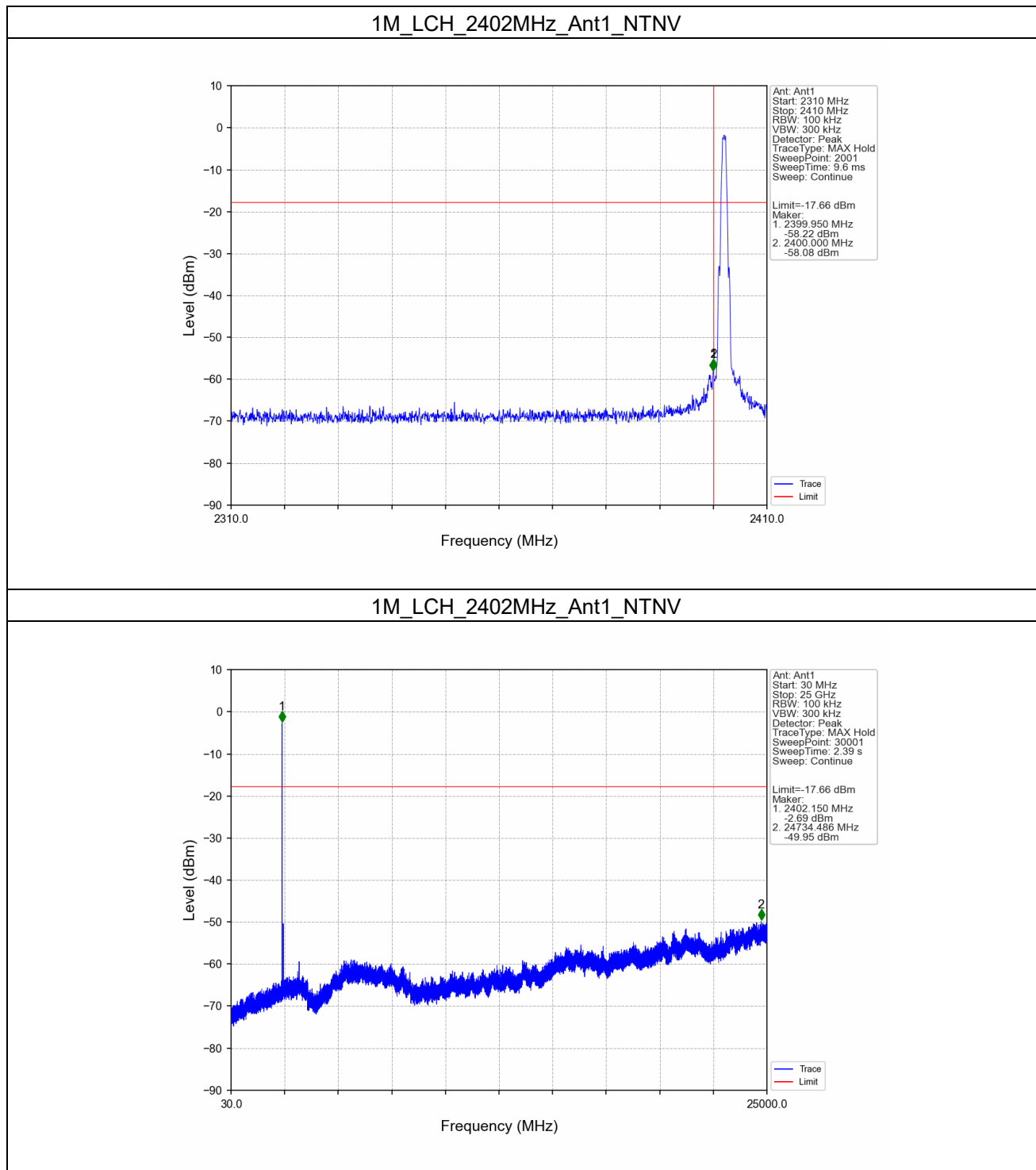
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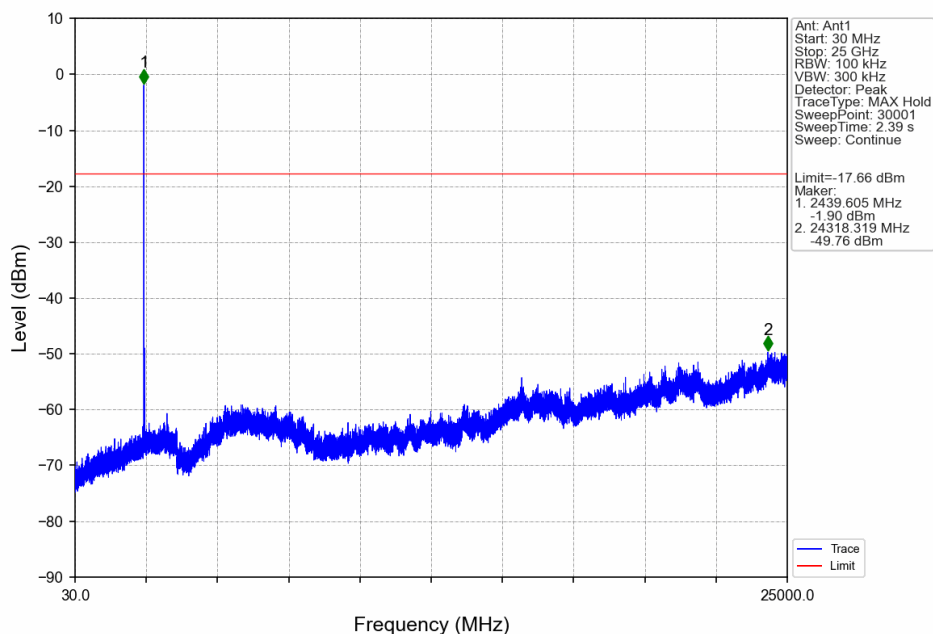
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### 5.2.2 CSE and Band Edges

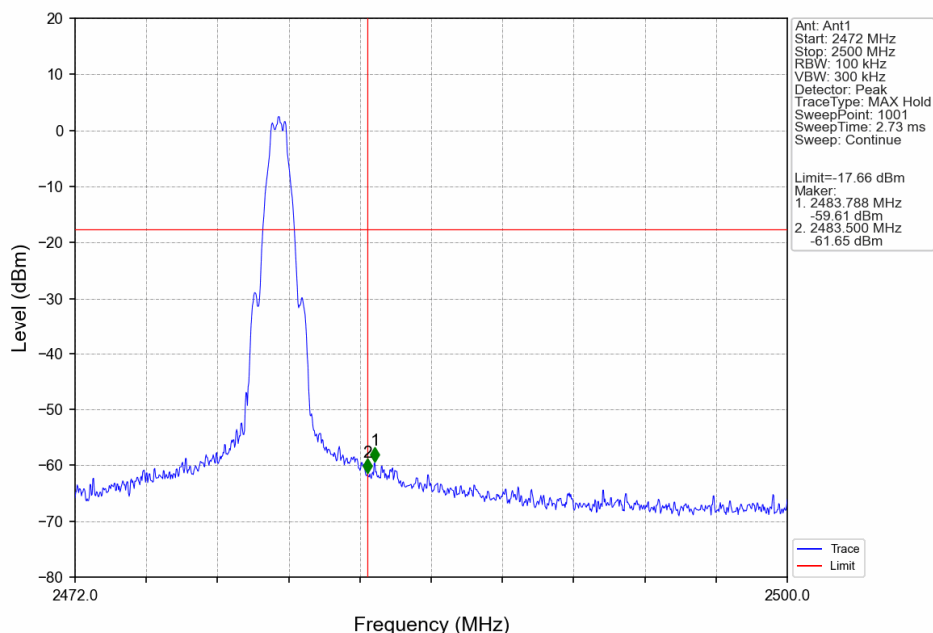




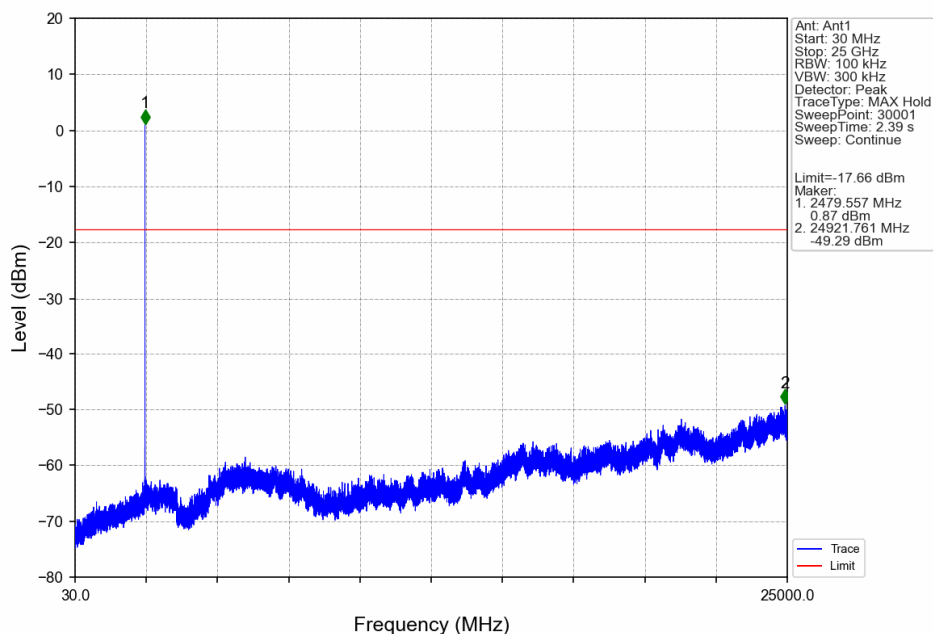
### 1M\_MCH\_2440MHz\_Ant1\_NTNV



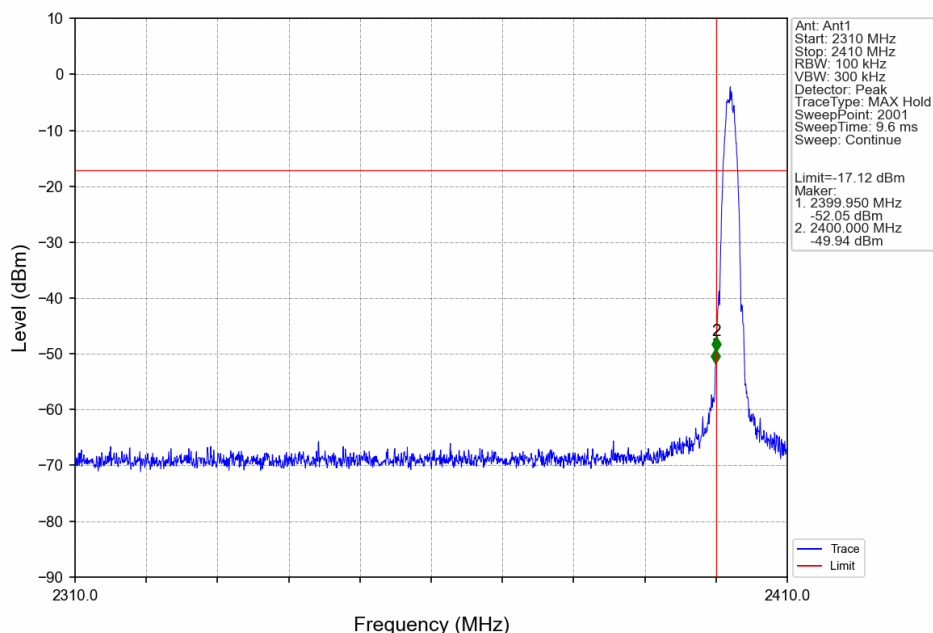
### 1M\_HCH\_2480MHz\_Ant1\_NTNV



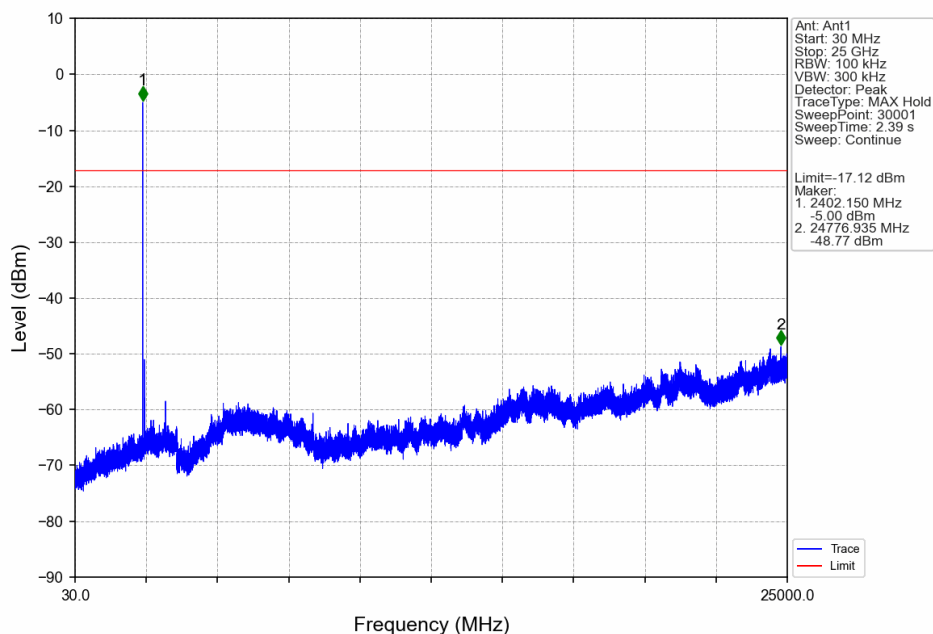
### 1M\_HCH\_2480MHz\_Ant1\_NTNV



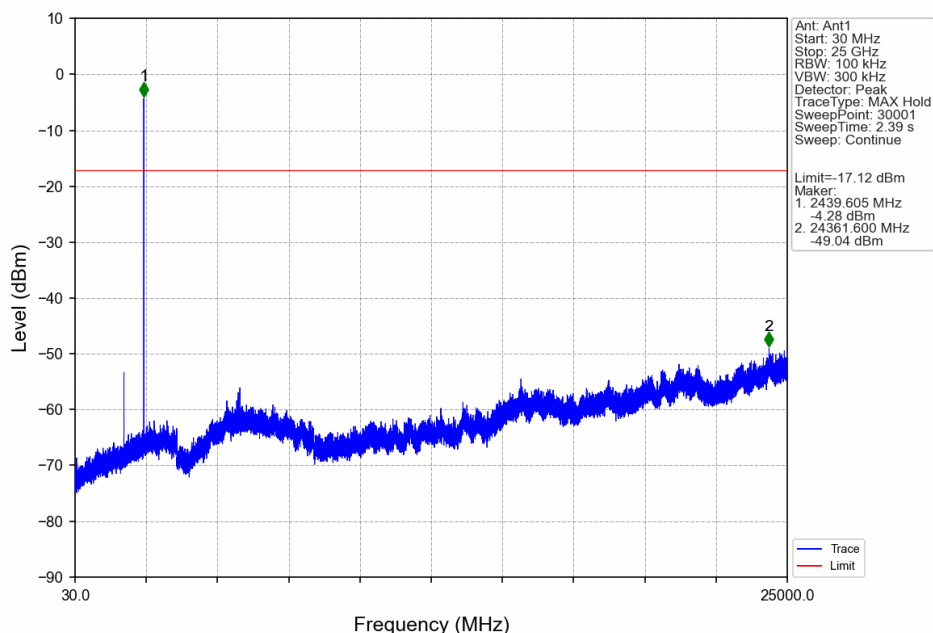
### 2M\_LCH\_2402MHz\_Ant1\_NTNV



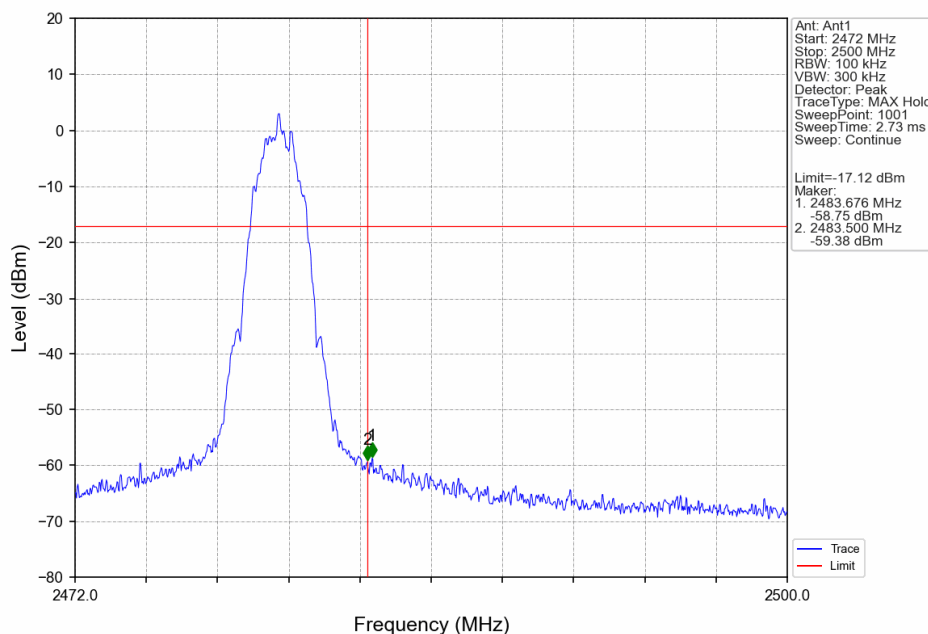
### 2M\_LCH\_2402MHz\_Ant1\_NTNV



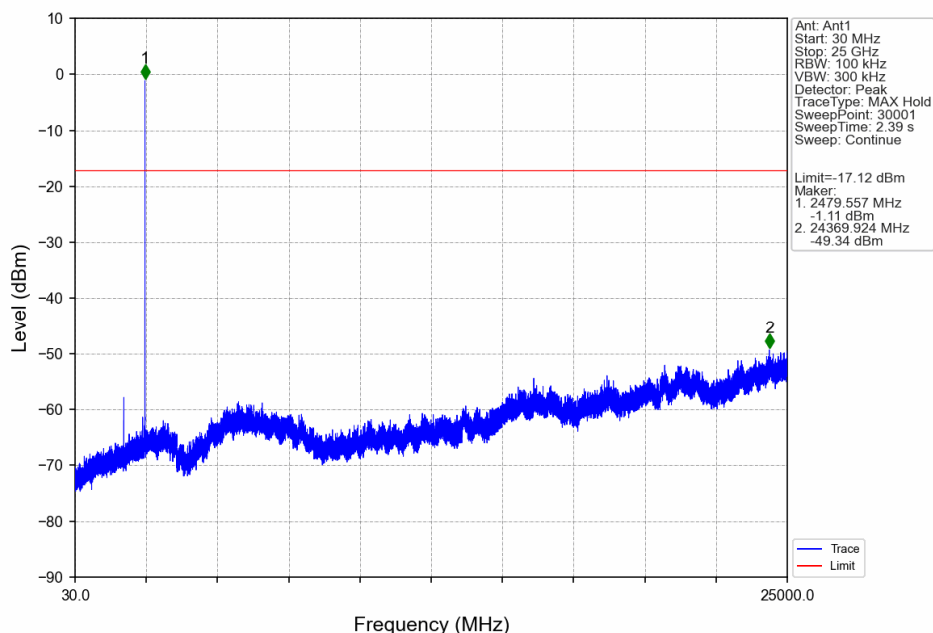
### 2M\_MCH\_2440MHz\_Ant1\_NTNV



### 2M\_HCH\_2480MHz\_Ant1\_NTNV



### 2M\_HCH\_2480MHz\_Ant1\_NTNV



- End of the Report -

