

**TEST REPORT**

<b>Application No.:</b>	GZCR2502000264LM
<b>Applicant:</b>	DOREL JUVENILE GROUP
<b>Address of Applicant:</b>	2525 State Street Columbus, Indiana, 47201-7494, United States
<b>Manufacturer:</b>	DOREL JUVENILE GROUP
<b>Address of Manufacturer:</b>	2525 State Street Columbus, Indiana, 47201-7494, United States
<b>Factory:</b>	Zhongshan techkids baby products Co., Ltd.
<b>Address of Factory:</b>	2nd floor of Building A1, No. 202 Kuixing Road Xiaolan town, zhongshan city, guangdong, China
<b>Product Name:</b>	FAME Stroller
<b>Model No.:</b>	CV472
<b>Trade Mark:</b>	MAXI-COSI
<b>Standard(s) :</b>	47 CFR Part 15, Subpart C 15.247
<b>Date of Receipt:</b>	2025-02-27
<b>Date of Test:</b>	2025-03-05 to 2025-03-11
<b>Date of Issue:</b>	2025-04-15
<b>Test Result:</b>	<b>Pass*</b>

\* In the configuration tested, the EUT complied with the standards specified above.



Ricky Liu  
Manager

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<b>Revision Record</b>			
<b>Version</b>	<b>Report No.</b>	<b>Date</b>	<b>Remark</b>
01	GZCR250200026402	2025-04-15	Original

<b>Authorized for issue by:</b>			
		Luke Lin	
		<b>Luke Lin/Project Engineer</b>	
		Vico Cui	
		<b>Vico Cui/Reviewer</b>	



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## 2 Test Summary

<b>Radio Spectrum Technical Requirement</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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

<b>Radio Spectrum Matter Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	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.



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### 3 Contents

	Page
<b>1 Cover Page .....</b>	<b>1</b>
<b>2 Test Summary .....</b>	<b>3</b>
<b>3 Contents .....</b>	<b>4</b>
<b>4 General Information.....</b>	<b>6</b>
4.1    Details of E.U.T .....	6
4.2    Description of Support Units.....	6
4.3    Measurement Uncertainty .....	7
4.4    Test Location.....	8
4.5    Test Facility .....	8
4.6    Deviation from Standards.....	9
4.7    Abnormalities from Standard Conditions.....	9
<b>5 Equipment List.....</b>	<b>10</b>
<b>6 Radio Spectrum Technical Requirement.....</b>	<b>12</b>
6.1    Antenna Requirement .....	12
6.1.1    Test Requirement: .....	12
6.1.2    Conclusion .....	12
<b>7 Radio Spectrum Matter Test Results .....</b>	<b>13</b>
7.1    Radiated Emissions which fall in the restricted bands .....	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 Spurious Emissions Below 1GHz .....	19
7.2.1    E.U.T. Operation .....	19
7.2.2    Test Mode Description .....	19
7.2.3    Test Setup Diagram .....	19
7.2.4    Measurement Procedure and Data.....	20
7.3    Radiated Spurious Emissions Above 1GHz .....	23
7.3.1    E.U.T. Operation .....	23
7.3.2    Test Mode Description .....	23
7.3.3    Test Setup Diagram .....	23
7.3.4    Measurement Procedure and Data.....	24
7.4    Conducted Peak Output Power.....	31
7.4.1    E.U.T. Operation .....	31
7.4.2    Test Mode Description .....	31
7.4.3    Test Setup Diagram .....	31
7.4.4    Measurement Procedure and Data.....	31
7.5    Minimum 6dB Bandwidth.....	32
7.5.1    E.U.T. Operation .....	32
7.5.2    Test Mode Description .....	32
7.5.3    Test Setup Diagram .....	32



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7.5.4	Measurement Procedure and Data .....	32
7.6	Power Spectrum Density .....	33
7.6.1	E.U.T. Operation .....	33
7.6.2	Test Mode Description .....	33
7.6.3	Test Setup Diagram .....	33
7.6.4	Measurement Procedure and Data .....	33
7.7	Conducted Band Edges Measurement .....	34
7.7.1	E.U.T. Operation .....	34
7.7.2	Test Mode Description .....	34
7.7.3	Test Setup Diagram .....	35
7.7.4	Measurement Procedure and Data .....	35
7.8	Conducted Spurious Emissions .....	36
7.8.1	E.U.T. Operation .....	36
7.8.2	Test Mode Description .....	36
7.8.3	Test Setup Diagram .....	37
7.8.4	Measurement Procedure and Data .....	37
8	<b>Test Setup Photo .....</b>	<b>38</b>
9	<b>EUT Constructional Details (EUT Photos) .....</b>	<b>39</b>
10	<b>Appendix .....</b>	<b>40</b>



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## 4 General Information

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

Power supply:	Powered by MC Power Bank without any RF function for working
	Model name:TN2024-014PB
	DC 3.7V 5000mAh 18.5Wh
Cable(s):	DC input pins
Test Voltage:	DC 3.7V
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna gain:	2.54 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	Lenovo Xiaoxinchao 5000	PF0TNMG8



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#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
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

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{cisp}$  (CISPR Uncertainty) or  $U_{ETSI}$  (ETSI Uncertainty).

**Emission decision rule:**

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

Channel	Frequency	Channe	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz



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Using test software was control EUT work in continuous transmitter mode, and select test channel as below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

#### 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.

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**4.6 Deviation from Standards**

None

**4.7 Abnormalities from Standard Conditions**

None



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## 5 Equipment List

<b>Radiated Emissions which fall in the restricted bands</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
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

<b>Radiated Spurious Emissions Below 1GHz</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07

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**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

**RF Conducted Test**

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2024-08-19	2025-08-18
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18

**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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## 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 2.54 dBi.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 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.

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

Operating Environment:

Temperature: 22.9 °C Humidity: 54.5 % RH Atmospheric Pressure: 1012 mbar

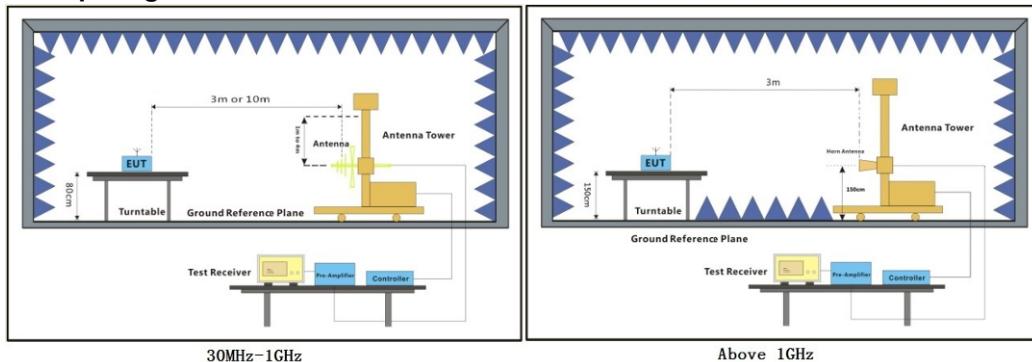
#### 7.1.2 Test Mode Description

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



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**7.1.3 Test Setup Diagram****7.1.4 Measurement Procedure and Data**

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. 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.
- j. 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.

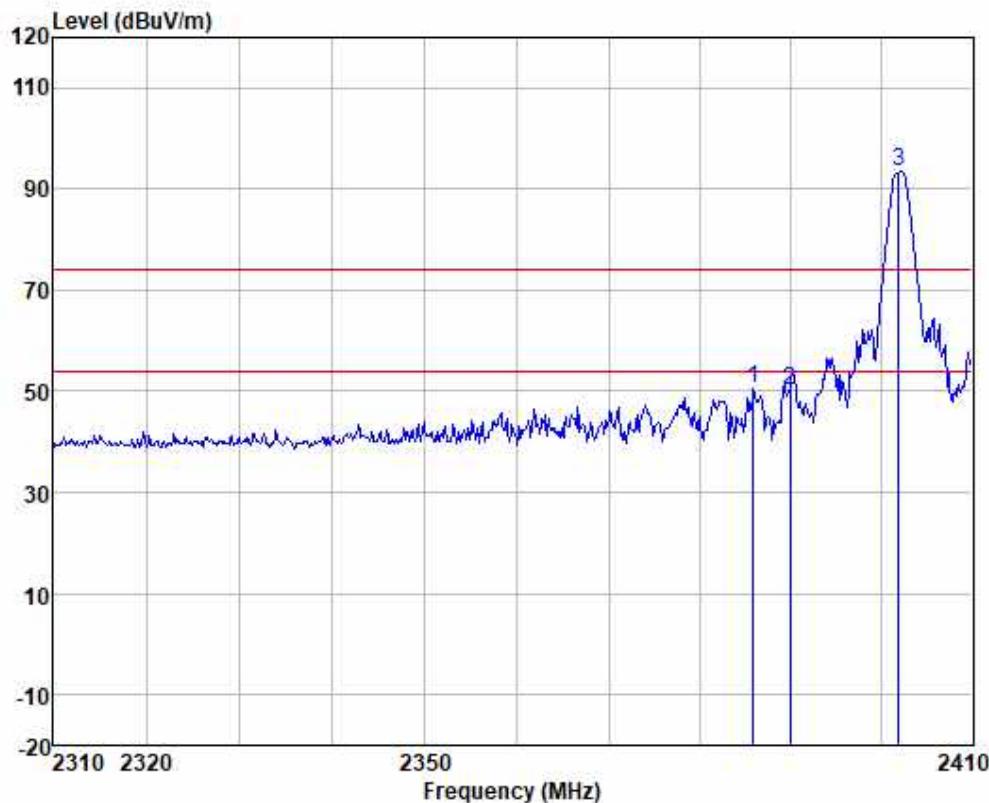
Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



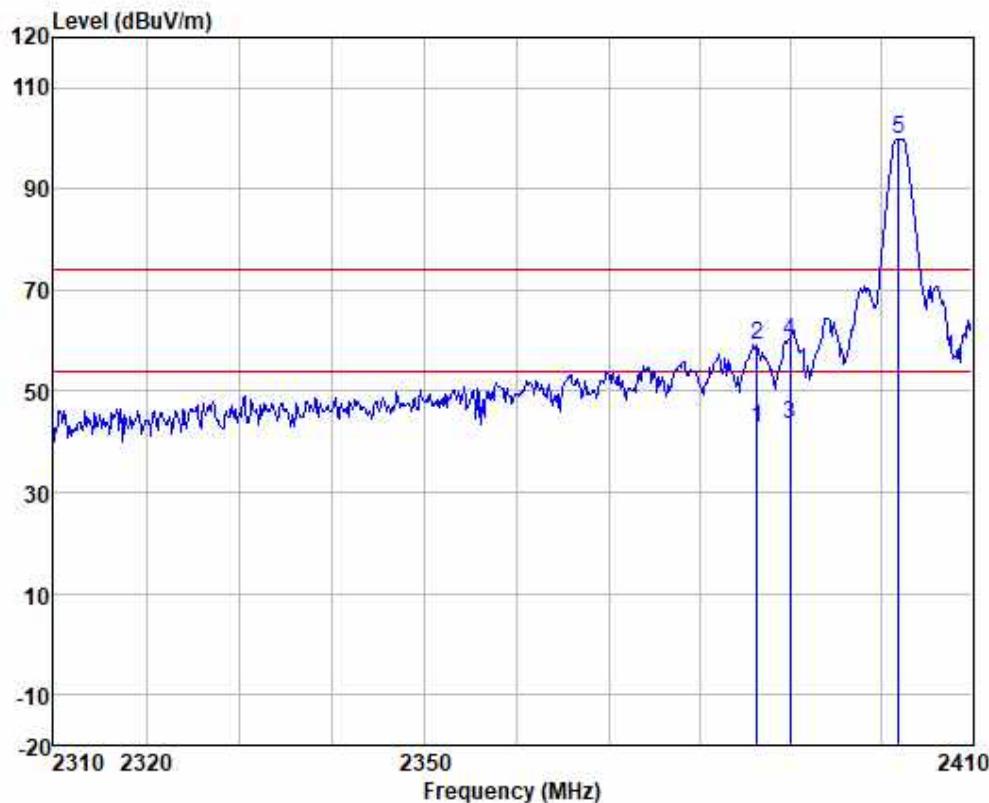
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2385.916	57.26	27.68	3.44	37.77	50.61	74.00	-23.39	VERTICAL	peak
2 2390.000	56.91	27.68	3.44	37.77	50.26	74.00	-23.74	VERTICAL	peak
3 * 2402.000	99.94	27.71	3.45	37.77	93.33	74.00	19.33	VERTICAL	peak



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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



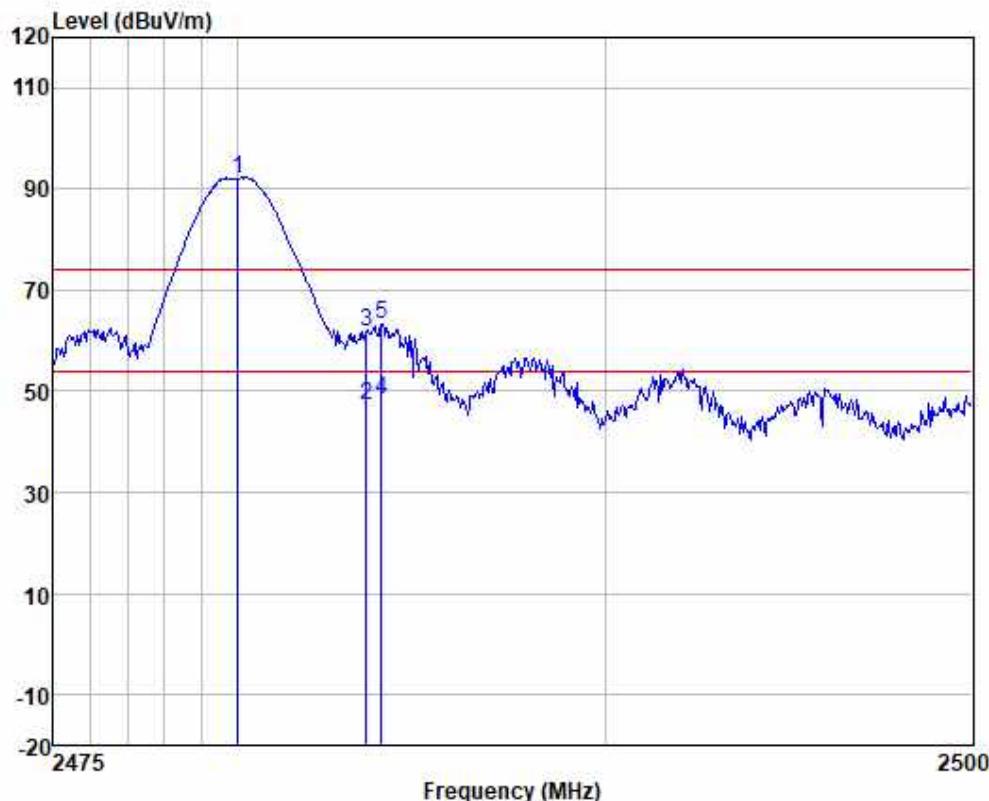
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Line	Level	Factor	Loss	Factor	Line		
	MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m	
1	2386.320	49.54	27.68	3.44	37.77	42.89	54.00	-11.11 HORIZONTAL Average
2	2386.320	65.68	27.68	3.44	37.77	59.03	74.00	-14.97 HORIZONTAL peak
3	2390.000	50.13	27.68	3.44	37.77	43.48	54.00	-10.52 HORIZONTAL Average
4	2390.000	66.61	27.68	3.44	37.77	59.96	74.00	-14.04 HORIZONTAL peak
5 *	2402.000	106.49	27.71	3.45	37.77	99.88	74.00	25.88 HORIZONTAL peak



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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Freq MHz	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Line Level	Over Limit	Over Line Limit	Pol/Phase	Remark
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 * 2480.000	98.51	27.84	3.48	37.76	92.07	74.00	18.07	VERTICAL		peak
2 2483.500	53.51	27.85	3.49	37.76	47.09	54.00	-6.91	VERTICAL		Average
3 2483.500	68.21	27.85	3.49	37.76	61.79	74.00	-12.21	VERTICAL		peak
4 2483.921	54.69	27.85	3.49	37.76	48.27	54.00	-5.73	VERTICAL		Average
5 2483.921	69.64	27.85	3.49	37.76	63.22	74.00	-10.78	VERTICAL		peak

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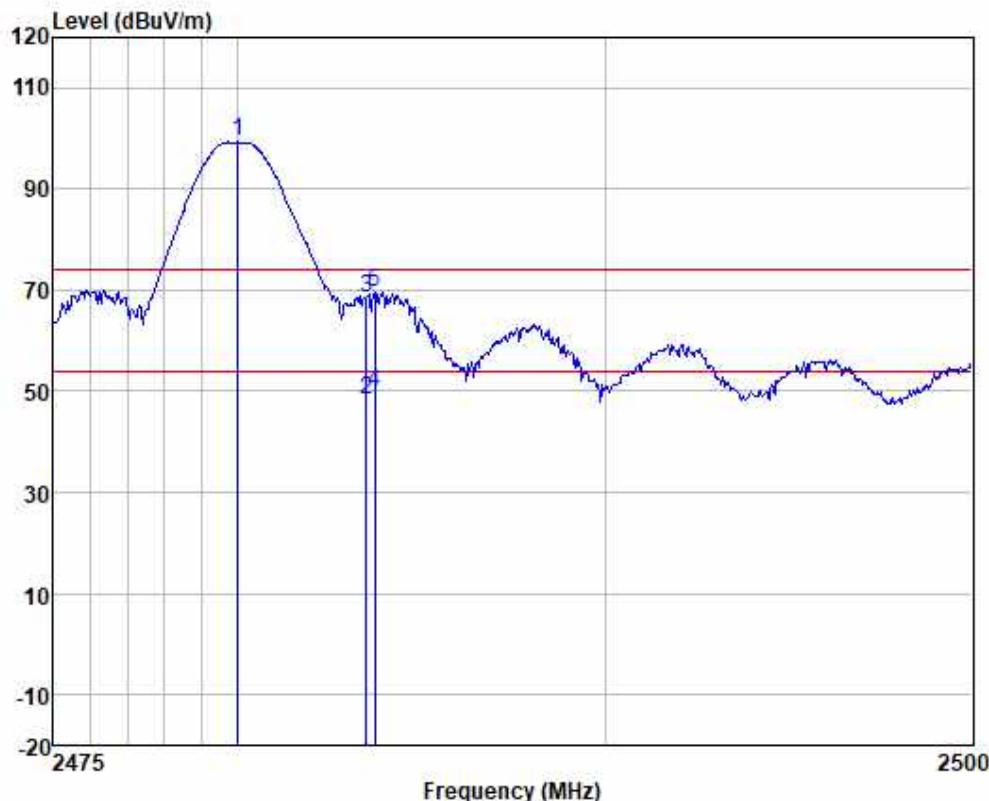
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq MHz	Read Antenna Level Factor	Cable Loss Factor	Preamp Factor	Limit Line Level dBuV/m	Over Limit dBuV/m	Over Limit Pol/Phase	Remark
	MHz	dBuV	dB/m				
1 * 2480.000	105.75	27.84	3.48	37.76	99.31	74.00	25.31 HORIZONTAL peak
2 2483.500	54.90	27.85	3.49	37.76	48.48	54.00	-5.52 HORIZONTAL Average
3 2483.500	75.02	27.85	3.49	37.76	68.60	74.00	-5.40 HORIZONTAL peak
4 2483.721	56.18	27.85	3.49	37.76	49.76	54.00	-4.24 HORIZONTAL Average
5 2483.721	76.11	27.85	3.49	37.76	69.69	74.00	-4.31 HORIZONTAL peak

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## 7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 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

### 7.2.1 E.U.T. Operation

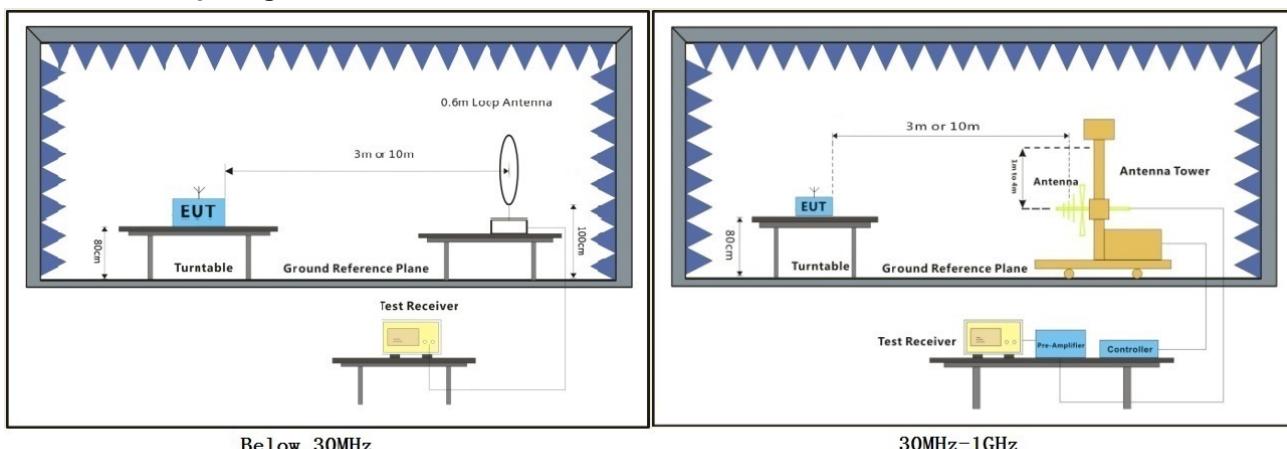
Operating Environment:

Temperature: 26.1 °C Humidity: 53.5 % RH Atmospheric Pressure: 1012 mbar

### 7.2.2 Test Mode Description

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

### 7.2.3 Test Setup Diagram



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**7.2.4 Measurement Procedure and Data**

- a. 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.
- b. 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.
- 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 quasi-peak 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:

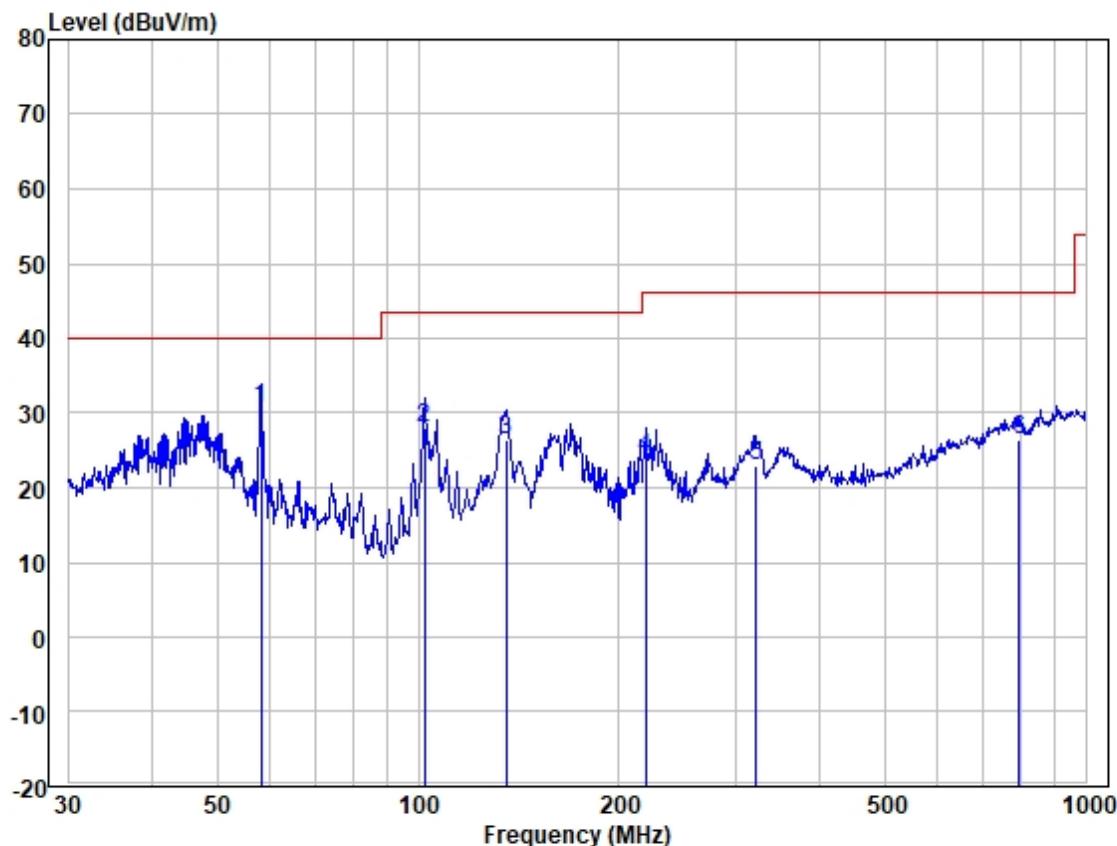
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Test Mode: 01; Polarity: Horizontal



Site : 966 Chamber  
Job :  
Model :  
Power :  
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 58.203	44.13	18.99	0.41	32.78	30.75	40.00	-9.25	HORIZONTAL	QP
2 102.360	45.16	15.02	0.54	32.70	28.02	43.52	-15.50	HORIZONTAL	QP
3 135.506	39.97	18.46	0.63	32.73	26.33	43.52	-17.19	HORIZONTAL	QP
4 219.075	40.24	15.66	0.81	32.82	23.89	46.02	-22.13	HORIZONTAL	QP
5 321.061	34.93	19.82	1.00	32.87	22.88	46.02	-23.14	HORIZONTAL	QP
6 793.396	27.99	28.32	1.66	31.62	26.35	46.02	-19.67	HORIZONTAL	QP

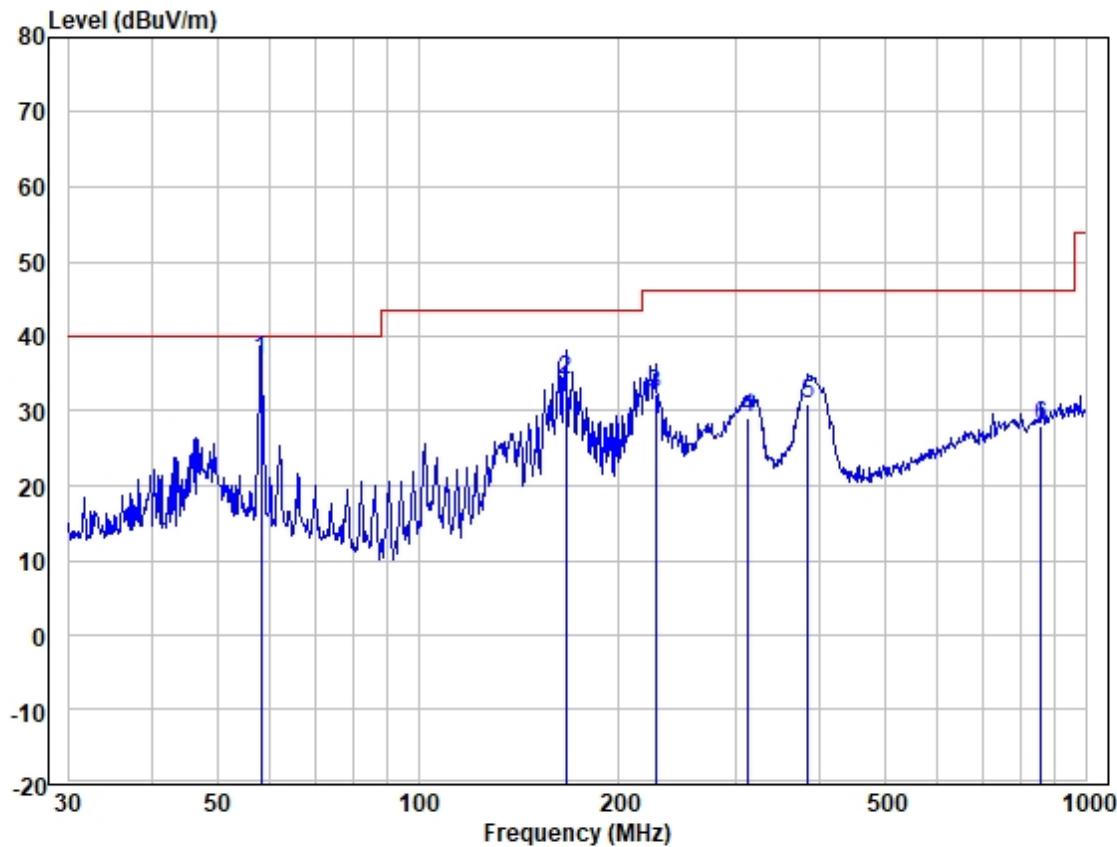


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Test Mode: 01; Polarity: Vertical



Site : 966 Chamber  
Job :  
Model :  
Power :  
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 58.215	50.19	18.99	0.41	32.78	36.81	40.00	-3.19	VERTICAL	
2 166.651	47.34	18.93	0.72	32.79	34.20	43.52	-9.32	VERTICAL	
3 226.894	48.14	16.07	0.82	32.82	32.21	46.02	-13.81	VERTICAL	
4 312.179	41.34	19.55	0.99	32.87	29.01	46.02	-17.01	VERTICAL	
5 383.932	41.44	21.12	1.14	32.89	30.81	46.02	-15.21	VERTICAL	
6 857.025	28.77	28.95	1.72	31.46	27.98	46.02	-18.04	VERTICAL	



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### 7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 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

#### 7.3.1 E.U.T. Operation

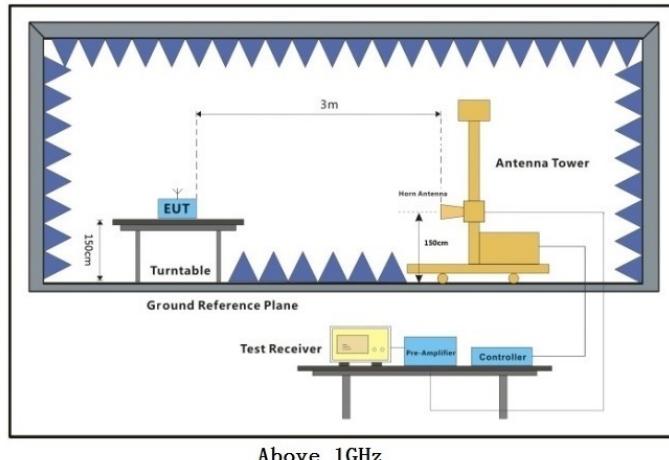
Operating Environment:

Temperature: 22.9 °C      Humidity: 54.5 % RH      Atmospheric Pressure: 1012 mbar

#### 7.3.2 Test Mode Description

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

#### 7.3.3 Test Setup Diagram



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**7.3.4 Measurement Procedure and Data**

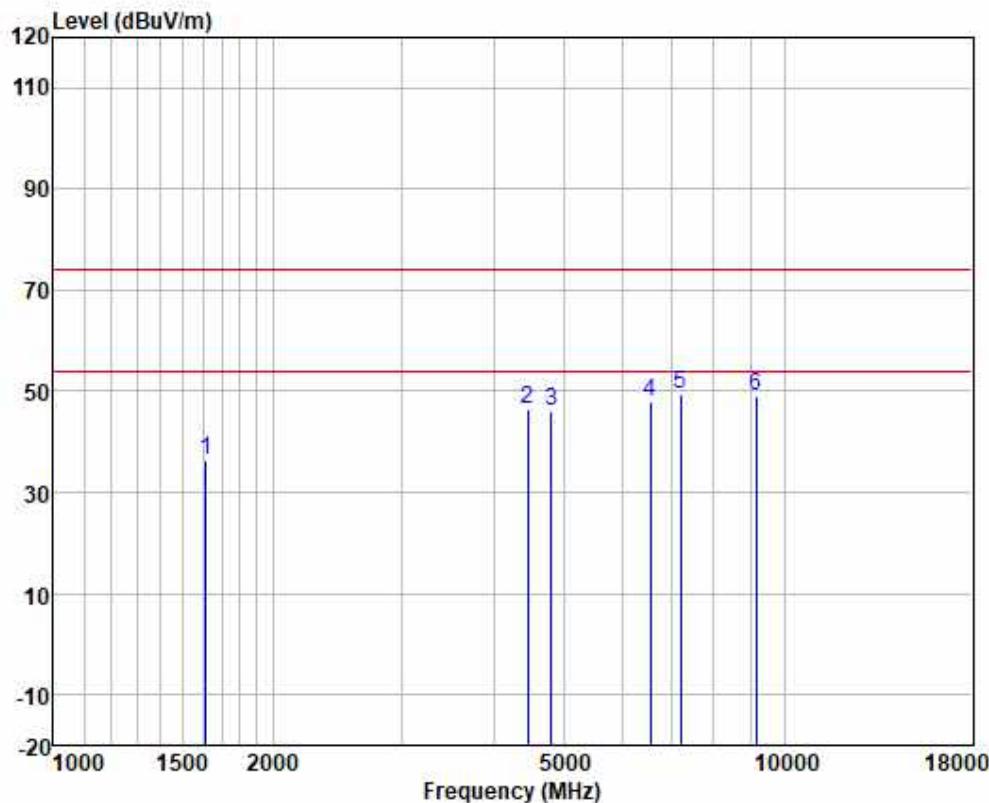
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



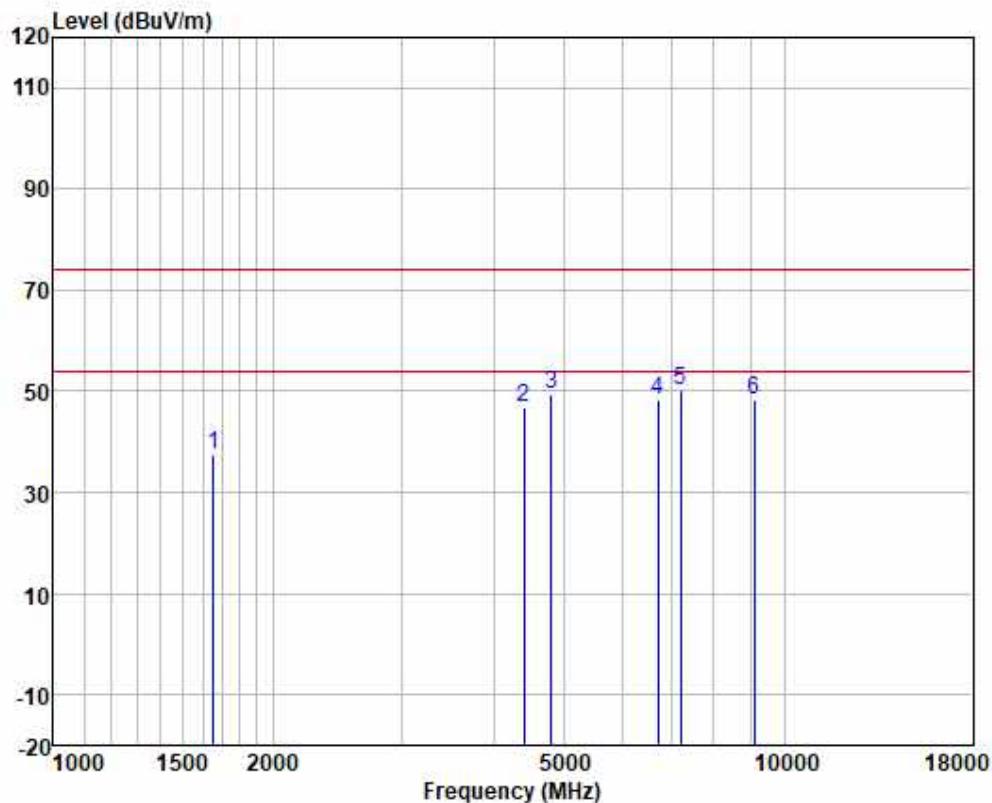
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1615.754	47.08	24.74	2.77	38.13	36.46	74.00	-37.54	VERTICAL peak
2 4456.315	45.37	34.00	4.61	37.45	46.53	74.00	-27.47	VERTICAL peak
3 4804.000	44.64	34.16	4.81	37.38	46.23	74.00	-27.77	VERTICAL peak
4 6564.209	45.40	33.99	5.67	37.12	47.94	74.00	-26.06	VERTICAL peak
5 7206.000	45.23	35.63	5.93	37.17	49.62	74.00	-24.38	VERTICAL peak
6 9152.479	41.68	37.85	6.68	37.13	49.08	74.00	-24.92	VERTICAL peak



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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



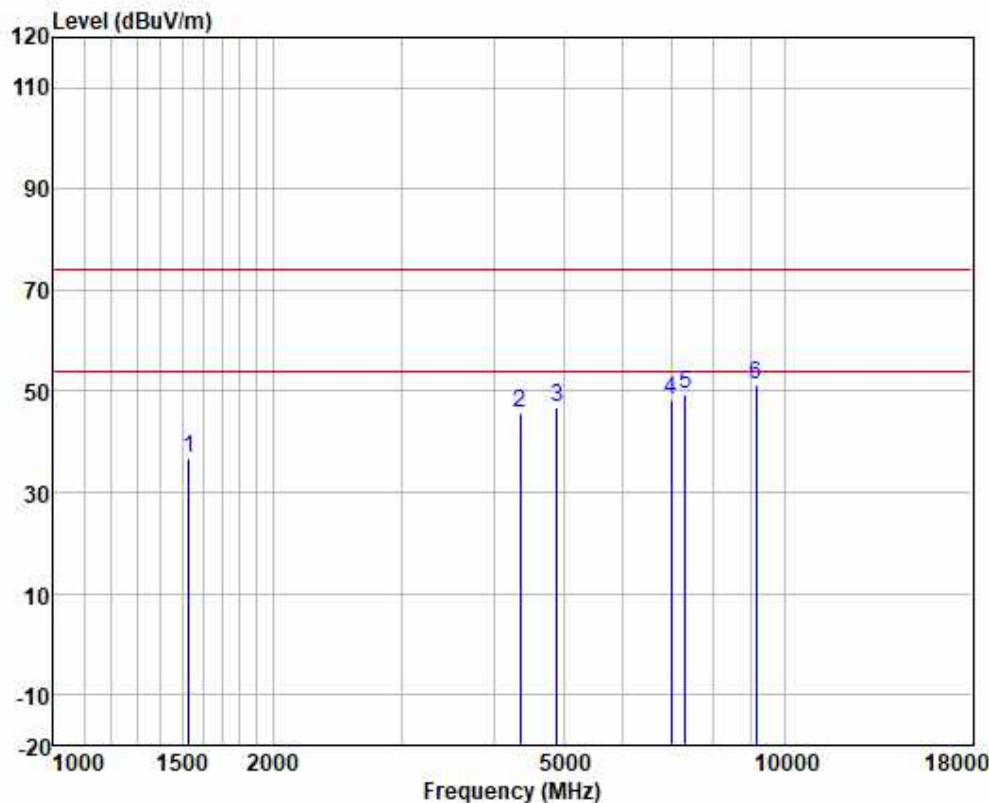
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1653.550	47.72	24.89	2.80	38.08	37.33	74.00	-36.67	HORIZONTAL peak
2 4405.090	46.09	33.74	4.61	37.46	46.98	74.00	-27.02	HORIZONTAL peak
3 4804.000	48.04	34.16	4.81	37.38	49.63	74.00	-24.37	HORIZONTAL peak
4 6717.762	45.18	34.42	5.75	37.12	48.23	74.00	-25.77	HORIZONTAL peak
5 7206.000	45.97	35.63	5.93	37.17	50.36	74.00	-23.64	HORIZONTAL peak
6 9099.724	41.06	37.75	6.64	37.14	48.31	74.00	-25.69	HORIZONTAL peak



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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m		
1 1533.841	47.87	24.51		2.72	38.26	36.84	74.00	-37.16 VERTICAL peak
2 4354.454	45.07	33.43		4.60	37.46	45.64	74.00	-28.36 VERTICAL peak
3 4880.000	45.32	34.15		4.85	37.35	46.97	74.00	-27.03 VERTICAL peak
4 6995.172	44.52	35.11		5.87	37.15	48.35	74.00	-25.65 VERTICAL peak
5 7320.000	44.71	36.07		5.98	37.18	49.58	74.00	-24.42 VERTICAL peak
6 9152.479	44.05	37.85		6.68	37.13	51.45	74.00	-22.55 VERTICAL peak

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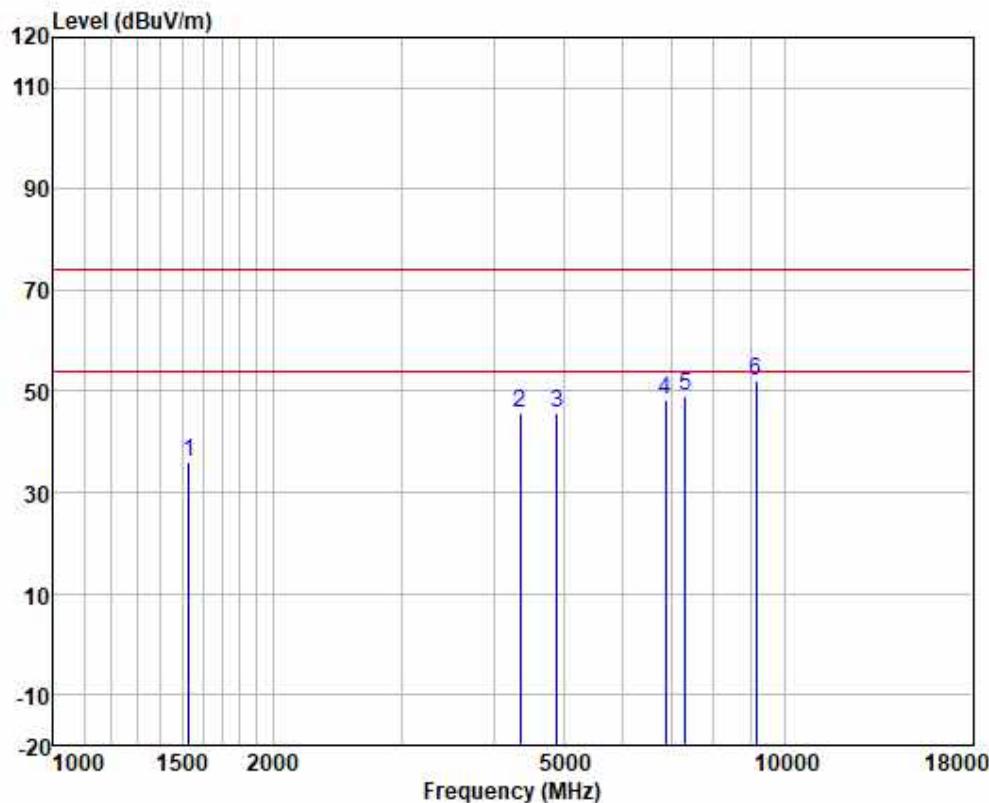
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Freq MHz	Read Freq MHz	Antenna Level dBuV	Antenna Factor	Cable Loss dB	Preamp Factor	Line Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Over Limit Pol/Phase	Remark
1	1533.841	46.92	24.51	2.72	38.26	35.89	74.00	-38.11	HORIZONTAL	peak
2	4354.454	45.11	33.43	4.60	37.46	45.68	74.00	-28.32	HORIZONTAL	peak
3	4880.000	44.19	34.15	4.85	37.35	45.84	74.00	-28.16	HORIZONTAL	peak
4	6874.906	44.68	34.88	5.83	37.14	48.25	74.00	-25.75	HORIZONTAL	peak
5	7320.000	44.05	36.07	5.98	37.18	48.92	74.00	-25.08	HORIZONTAL	peak
6	9152.479	44.66	37.85	6.68	37.13	52.06	74.00	-21.94	HORIZONTAL	peak

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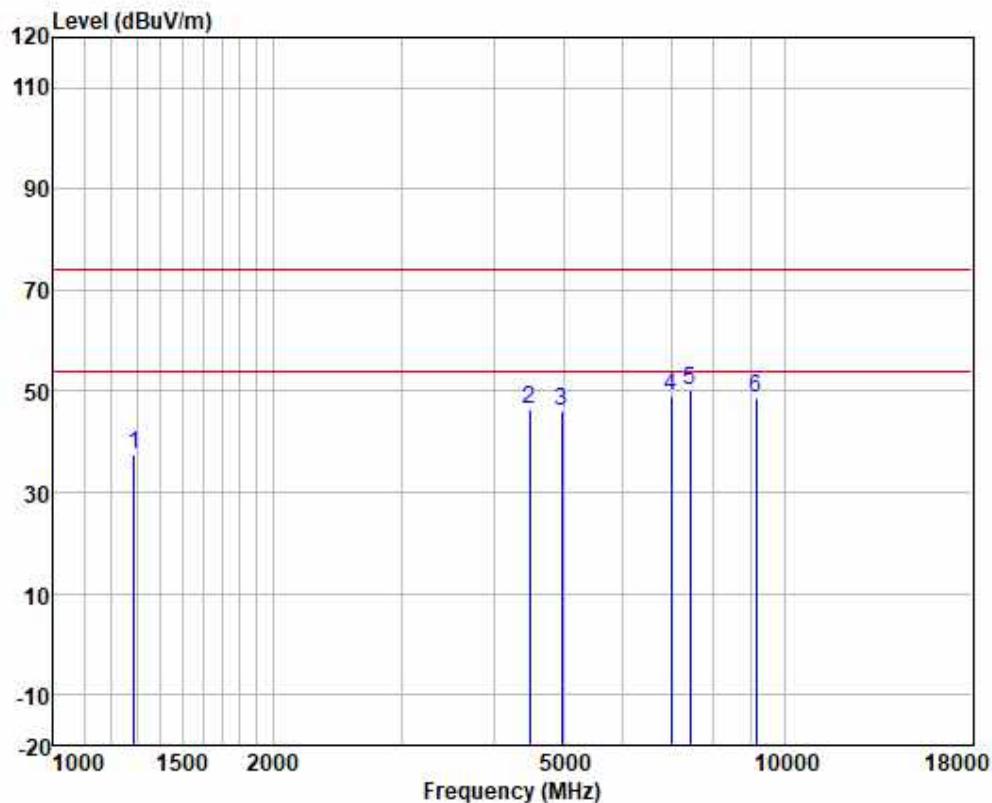
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



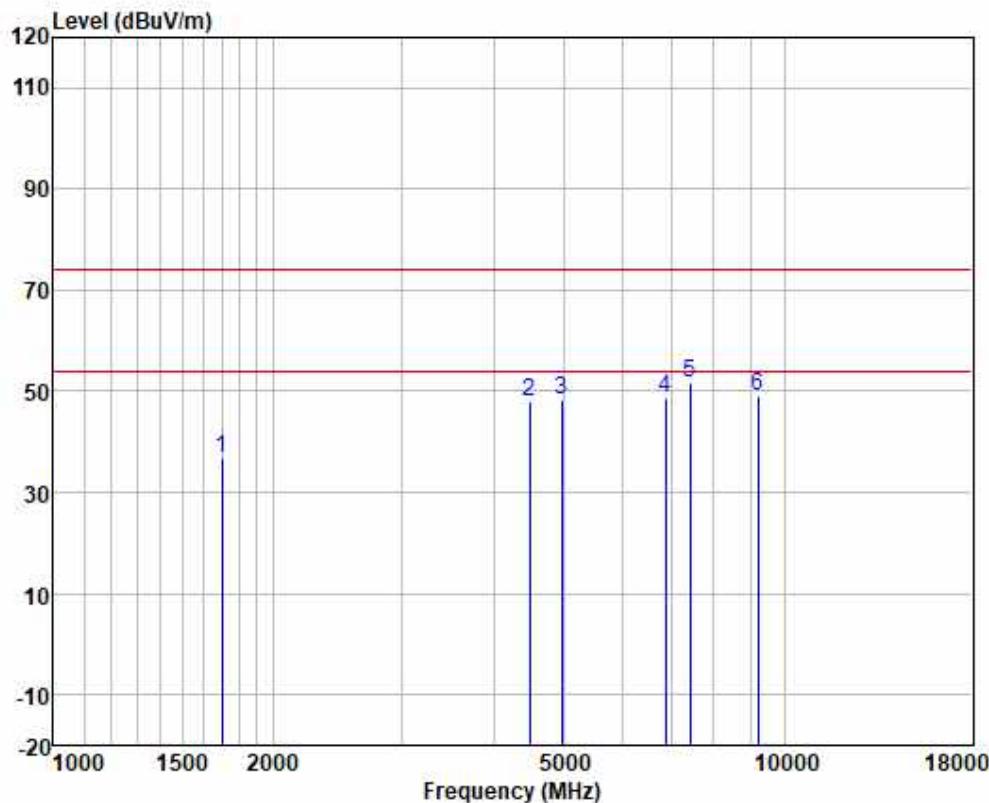
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1289.627	49.61	23.92	2.58	38.60	37.51	74.00	-36.49 VERTICAL peak
2	4482.150	45.19	34.12	4.62	37.44	46.49	74.00	-27.51 VERTICAL peak
3	4960.000	44.42	34.15	4.89	37.32	46.14	74.00	-27.86 VERTICAL peak
4	6995.172	45.28	35.11	5.87	37.15	49.11	74.00	-24.89 VERTICAL peak
5	7440.000	45.17	36.33	6.02	37.18	50.34	74.00	-23.66 VERTICAL peak
6	9152.479	41.32	37.85	6.68	37.13	48.72	74.00	-25.28 VERTICAL peak



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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m	dB	
1	1702.042	46.95	25.15	2.85	38.03	36.92	74.00	-37.08 HORIZONTAL peak
2	4482.150	46.60	34.12	4.62	37.44	47.90	74.00	-26.10 HORIZONTAL peak
3	4960.000	46.65	34.15	4.89	37.32	48.37	74.00	-25.63 HORIZONTAL peak
4	6874.906	45.28	34.88	5.83	37.14	48.85	74.00	-25.15 HORIZONTAL peak
5	7440.000	46.44	36.33	6.02	37.18	51.61	74.00	-22.39 HORIZONTAL peak
6	9205.540	41.33	37.97	6.73	37.13	48.90	74.00	-25.10 HORIZONTAL peak



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## 7.4 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

### 7.4.1 E.U.T. Operation

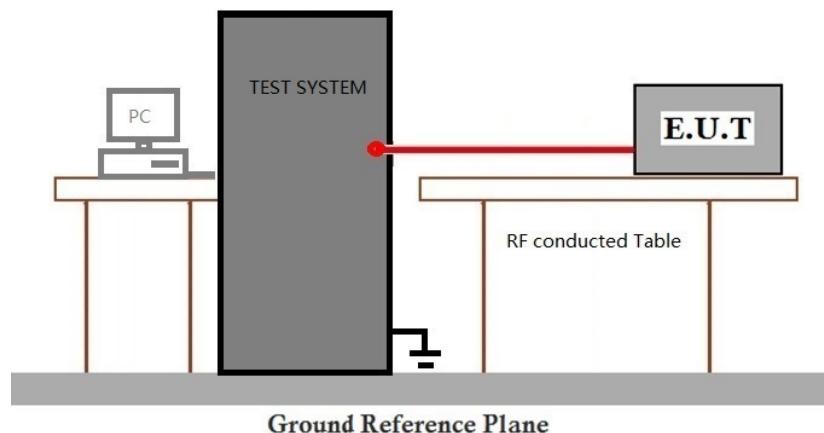
Operating Environment:

Temperature: 21.6 °C      Humidity: 60.5 % RH      Atmospheric Pressure: 1012 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode / Code	Description
Final test	00	Test the EUT lighting mode.
Final test	03	Test the EUTcharge mode

### 7.4.3 Test Setup Diagram



### 7.4.4 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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## 7.5 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:  $\geq 500$  kHz

### 7.5.1 E.U.T. Operation

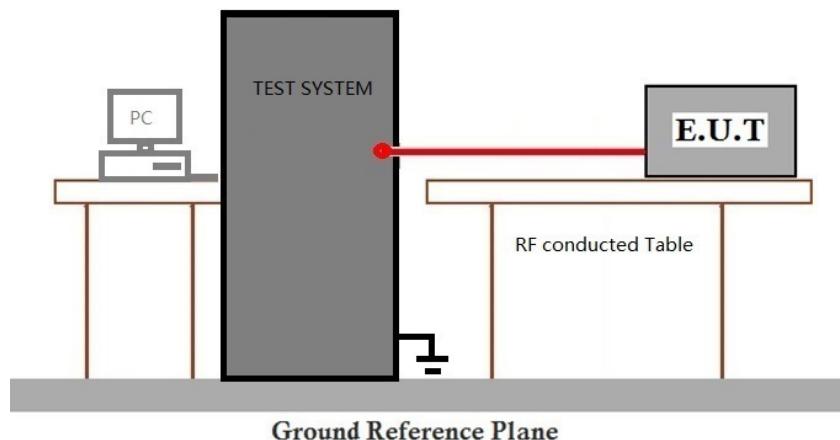
Operating Environment:

Temperature: 21.6 °C Humidity: 60.5 % RH Atmospheric Pressure: 1012 mbar

### 7.5.2 Test Mode Description

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

### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.6 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

### 7.6.1 E.U.T. Operation

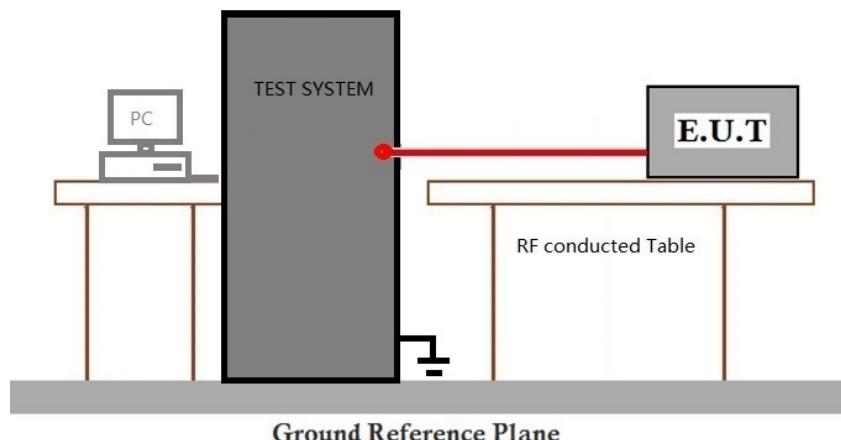
Operating Environment:

Temperature: 21.6 °C Humidity: 60.5 % RH Atmospheric Pressure: 1012 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode(1Mbps)_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



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## 7.7 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)).

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C      Humidity: 60.5 % RH      Atmospheric Pressure: 1012 mbar

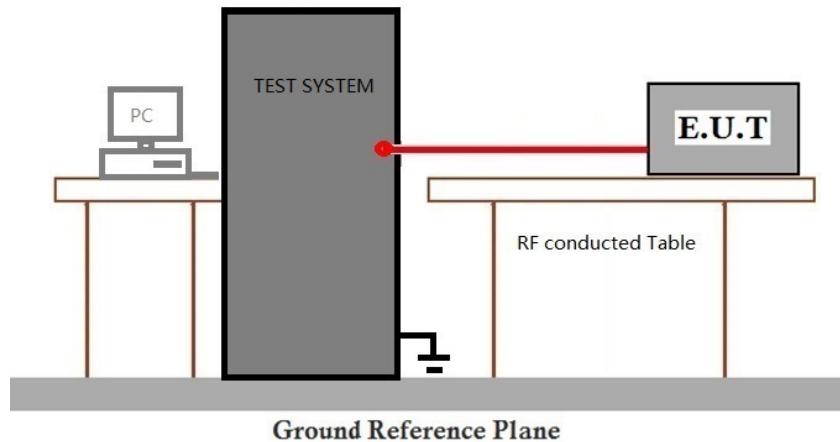
### 7.7.2 Test Mode Description

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



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**7.7.3 Test Setup Diagram****7.7.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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## 7.8 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)).

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C      Humidity: 60.5 % RH      Atmospheric Pressure: 1012 mbar

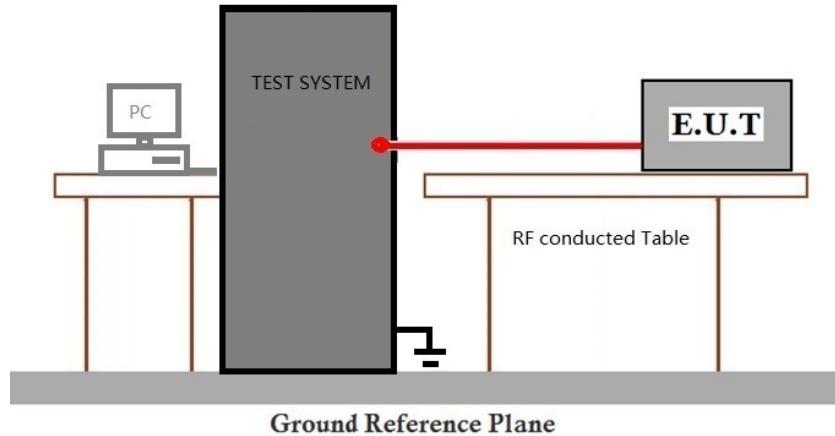
### 7.8.2 Test Mode Description

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



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**7.8.3 Test Setup Diagram****7.8.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR250200026402



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## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2502000264LM



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Guangzhou Branch, Testing Center, EEC Laboratory.

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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

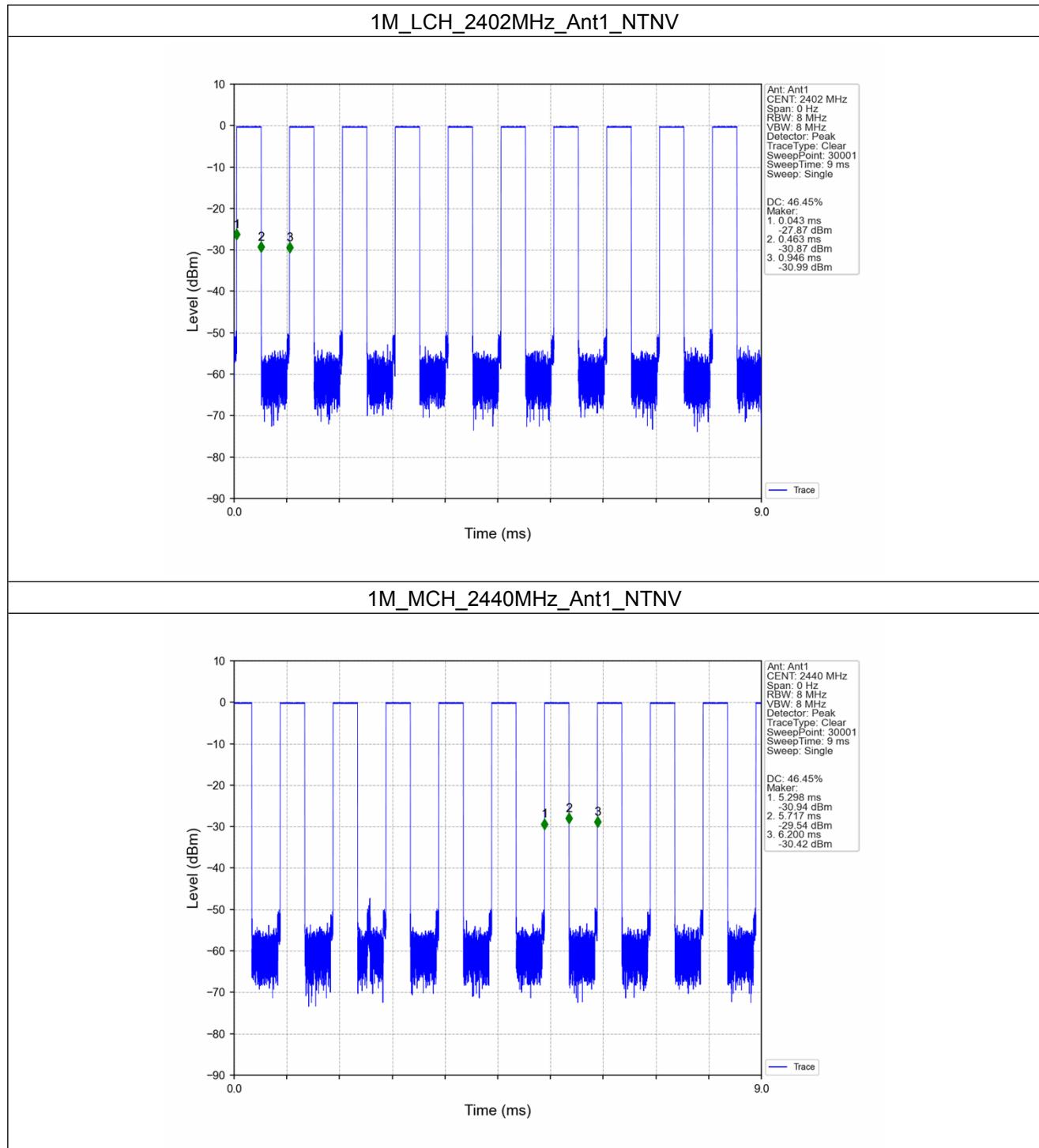
##### 1.1.1 Ant1

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	0.419	0.902	46.45	3.33	0.05
		2440	0.419	0.902	46.45	3.33	0.06
		2480	0.419	0.902	46.45	3.33	0.03



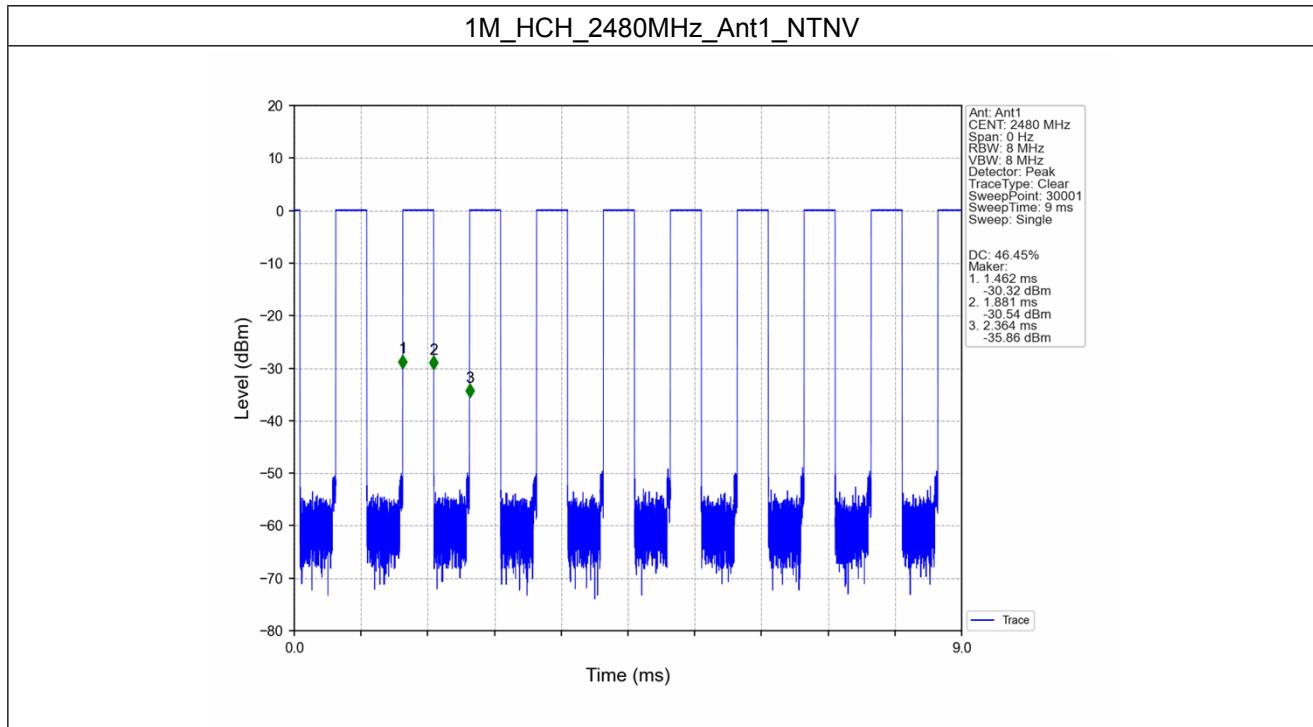
## 1.2 Test Graph

### 1.2.1 Ant1



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## 2. Bandwidth

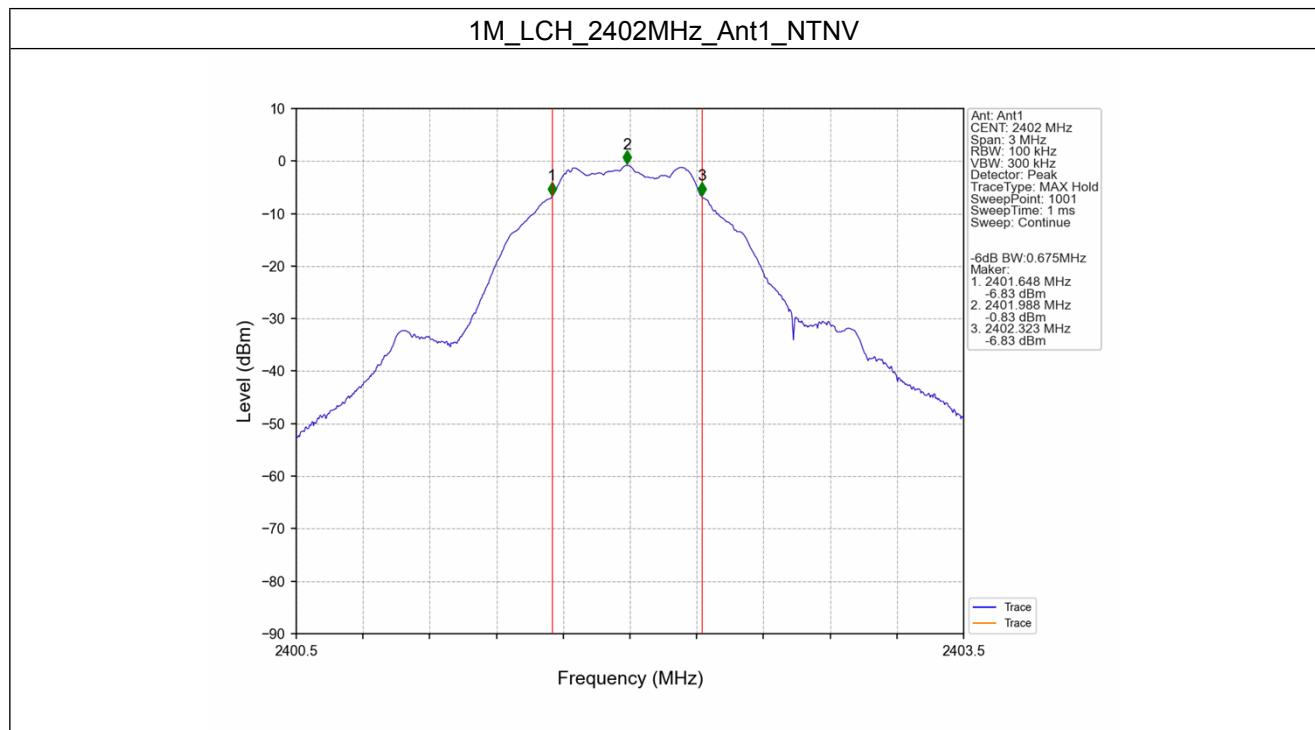
### 2.1 Test Result

#### 2.1.1 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.675	>=0.5	Pass
		2440	1	0.677	>=0.5	Pass
		2480	1	0.682	>=0.5	Pass

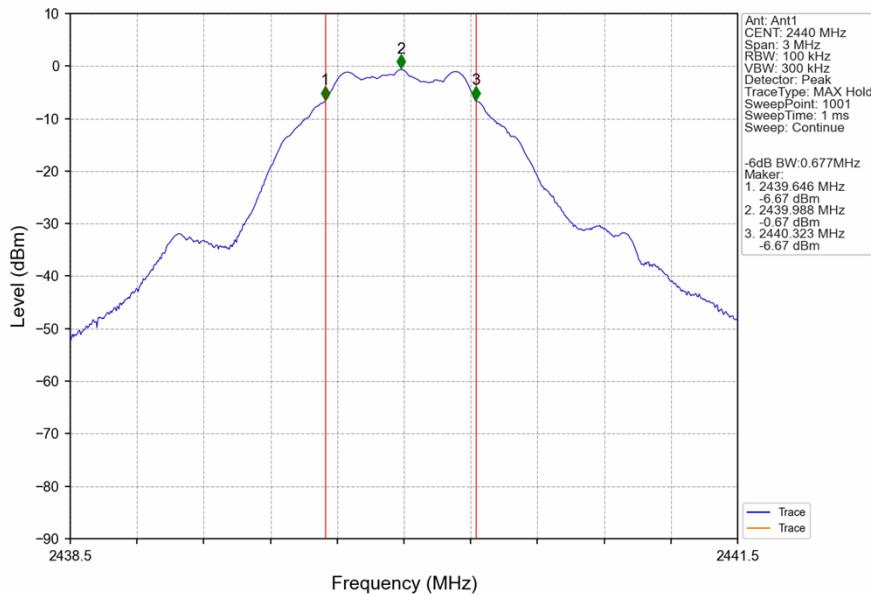
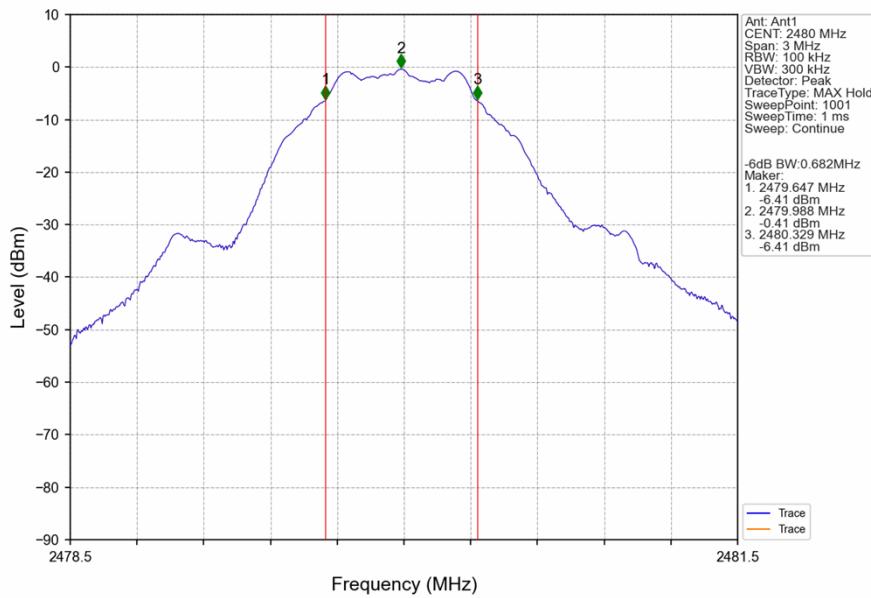
#### 2.2 Test Graph

##### 2.2.2 6dB BW



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**1M\_MCH\_2440MHz\_Ant1\_NTNV**

**1M\_HCH\_2480MHz\_Ant1\_NTNV**


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t (86-20) 82155555 sgs.china@sgs.com

### 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	-0.29	<=30	Pass
		2440	-0.12	<=30	Pass
		2480	0.13	<=30	Pass

Note1: Antenna Gain: Ant1: 2.54dBi;



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## 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	-12.78	<=8	Pass
		2440	-12.64	<=8	Pass
		2480	-12.45	<=8	Pass

Note1: Antenna Gain: Ant1: 2.54dBi;

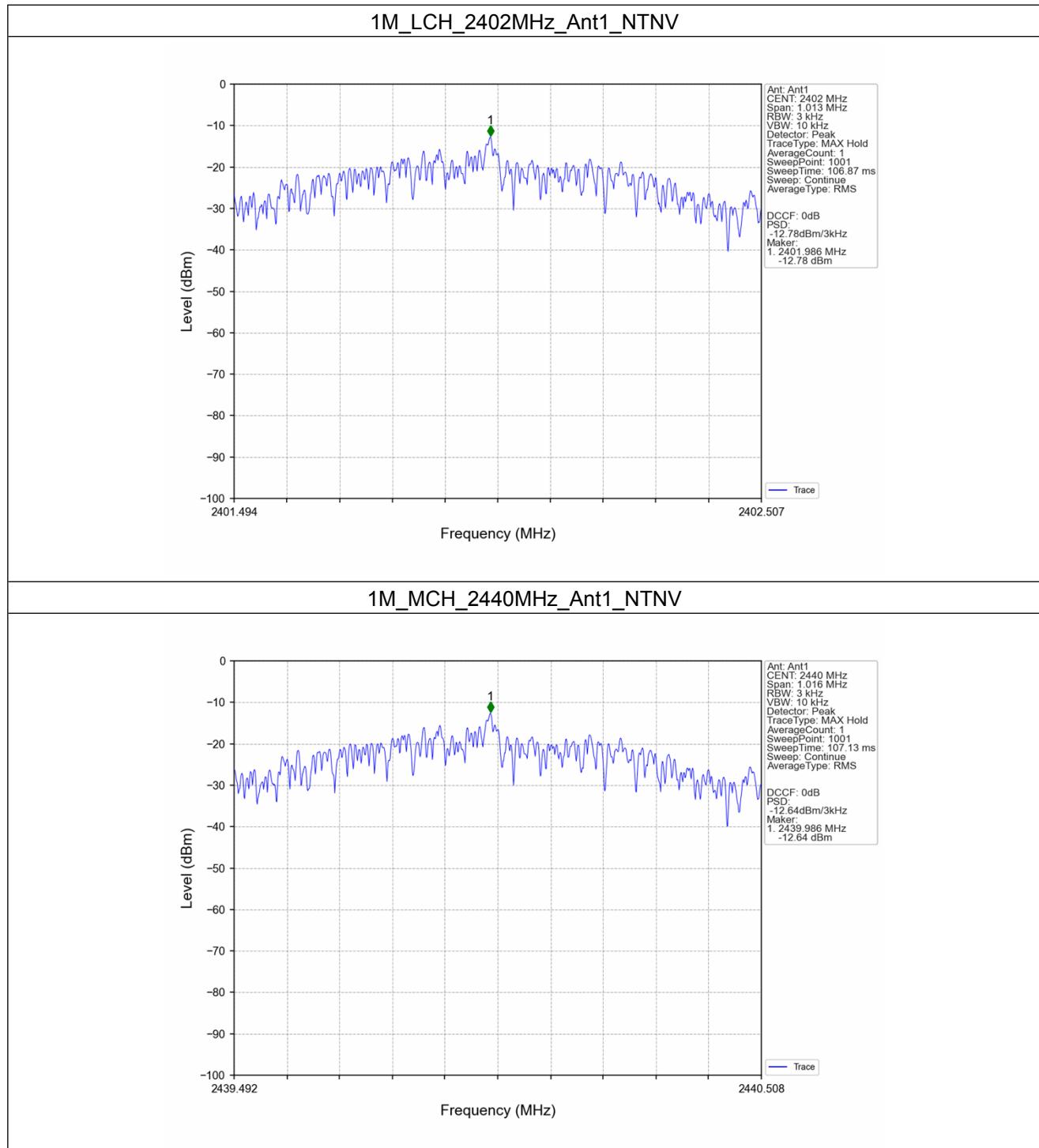


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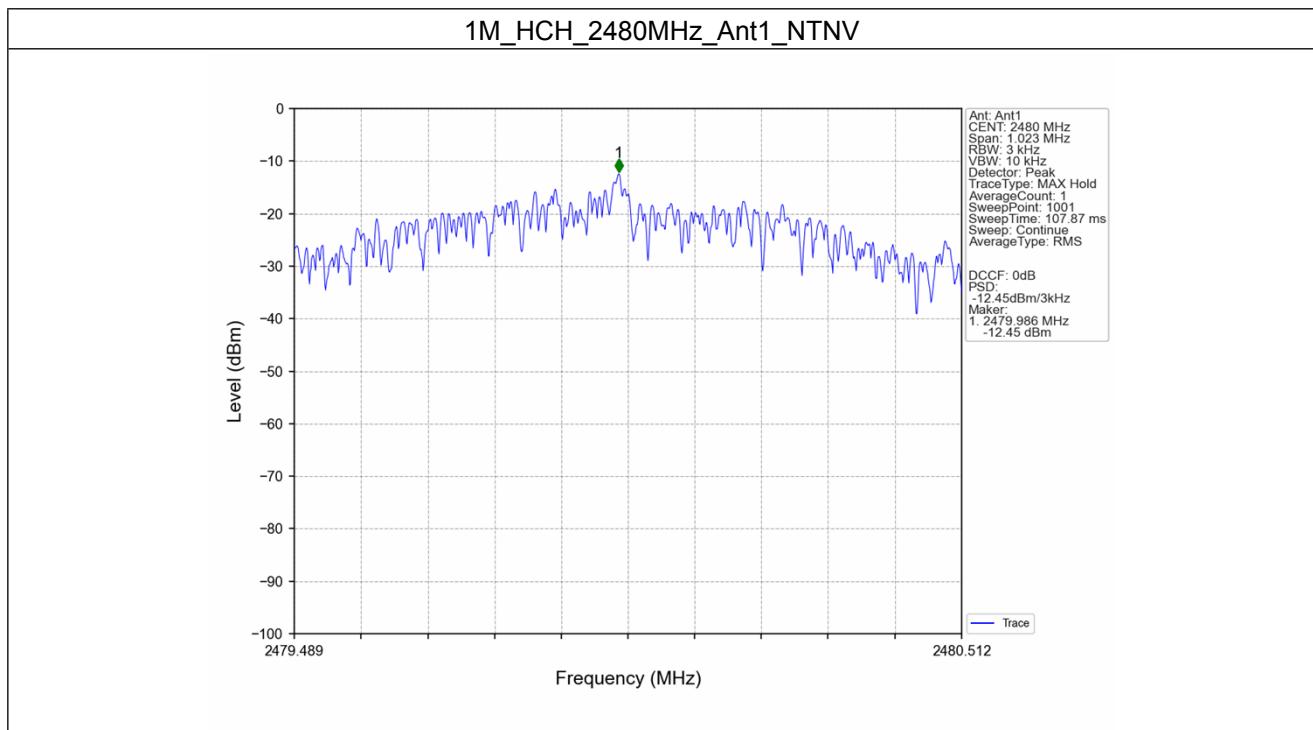
## 4.2 Test Graph

### 4.2.1 PSD



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## 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	-0.84
		2440	1	-0.68
		2480	1	-0.42

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 edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-0.42	-20.42	Pass
		2440	1	-0.42	-20.42	Pass
		2480	1	-0.42	-20.42	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.

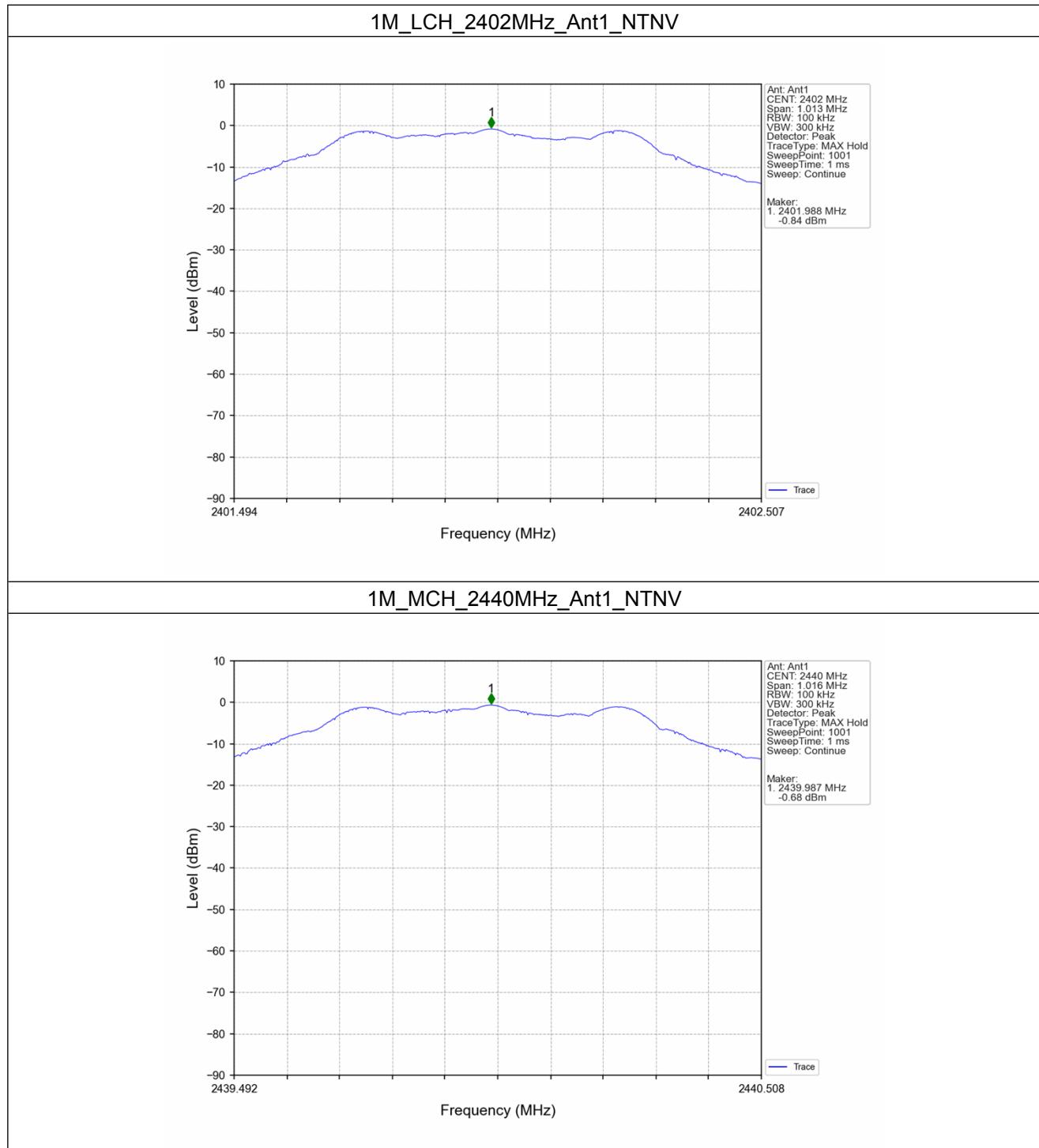


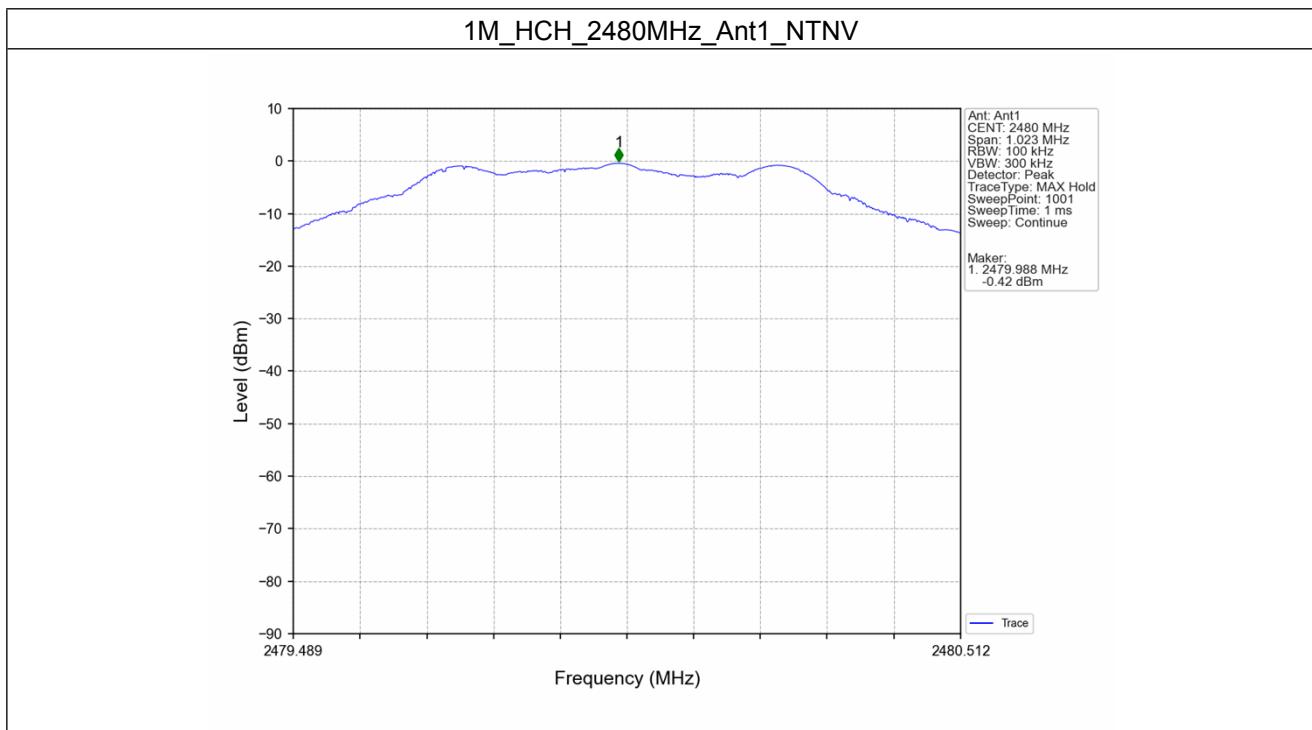
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## 5.2 Test Graph

## 5.2.1 Ref

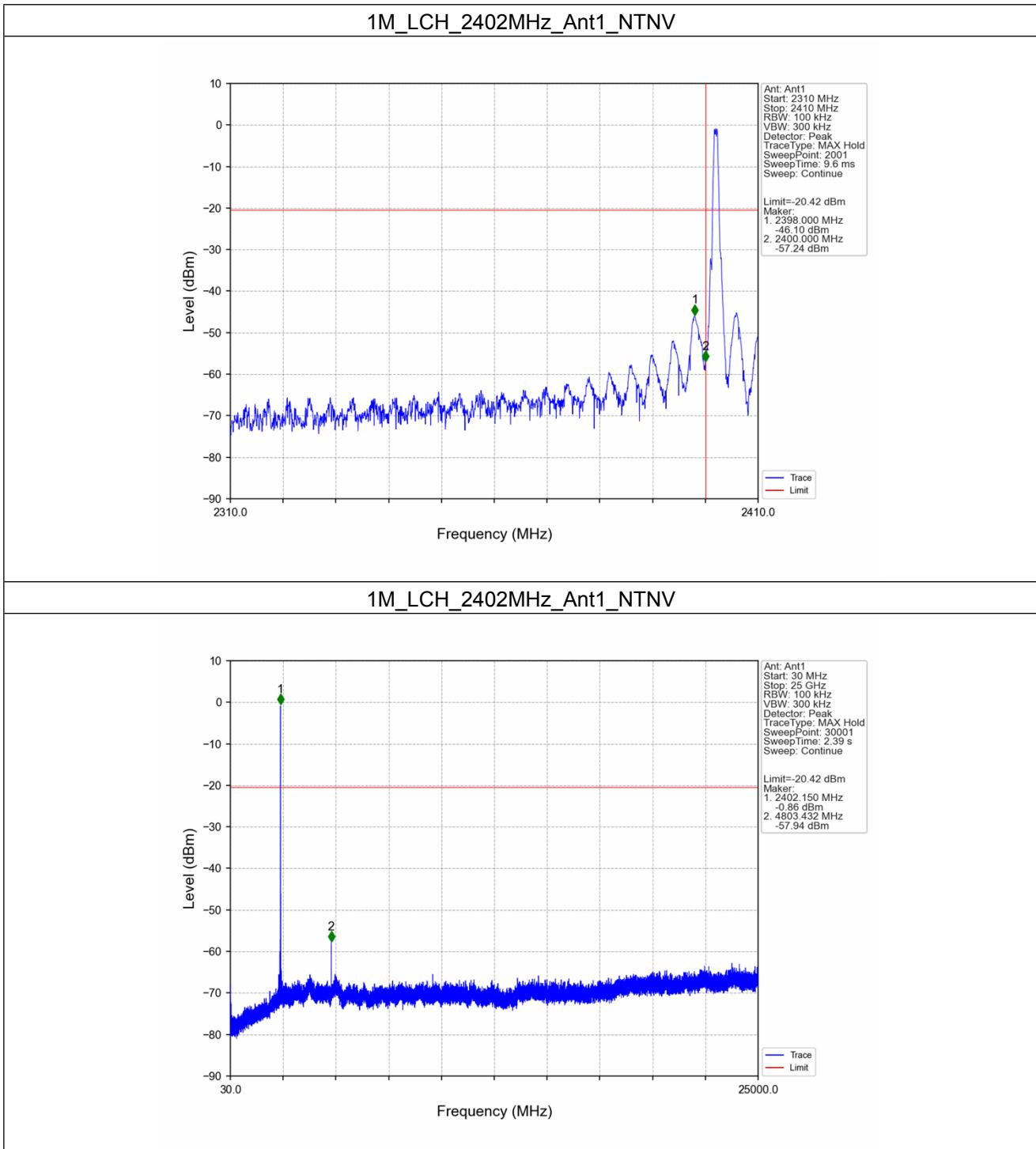




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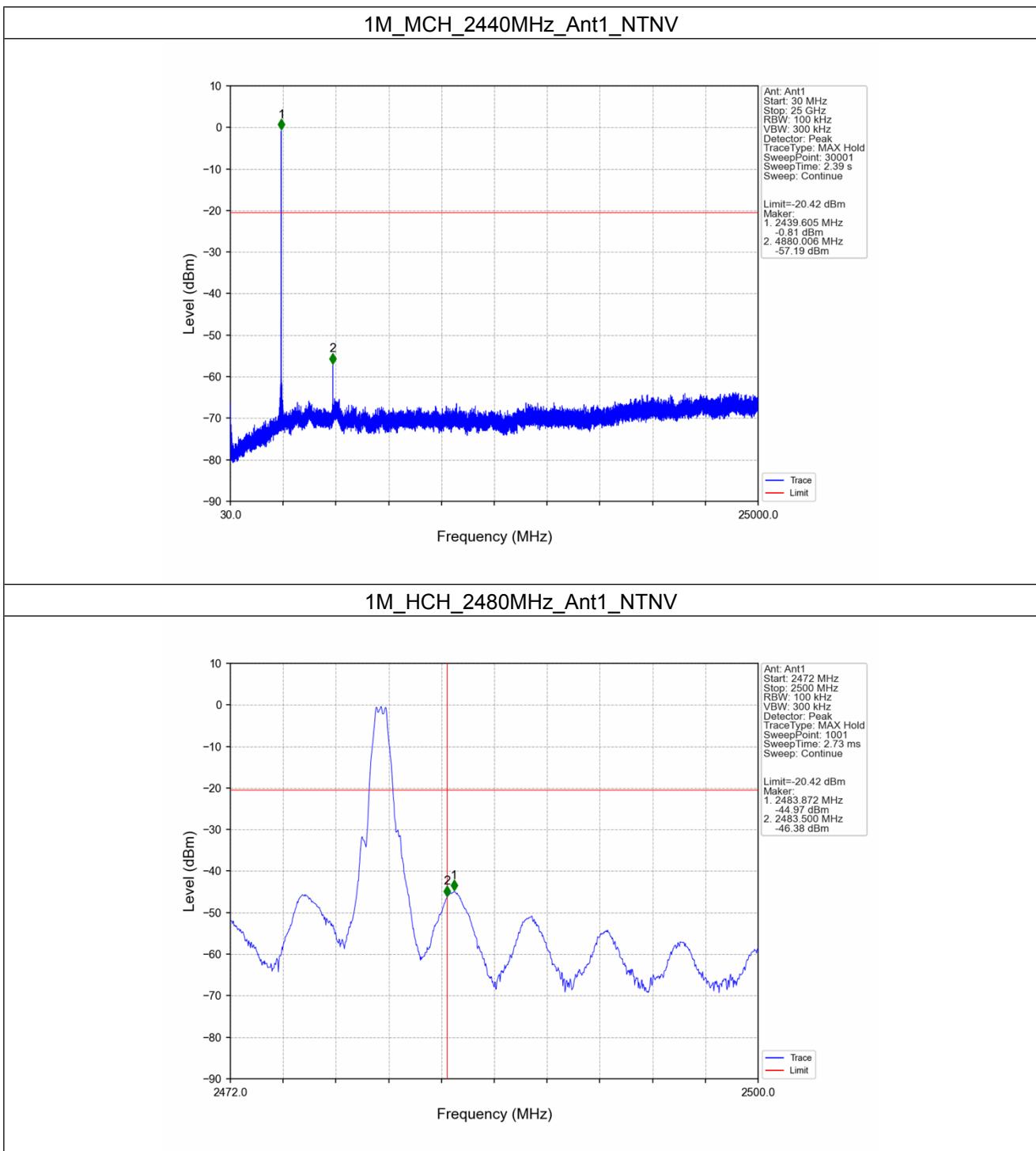
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### 5.2.2 CSE and Band Edge



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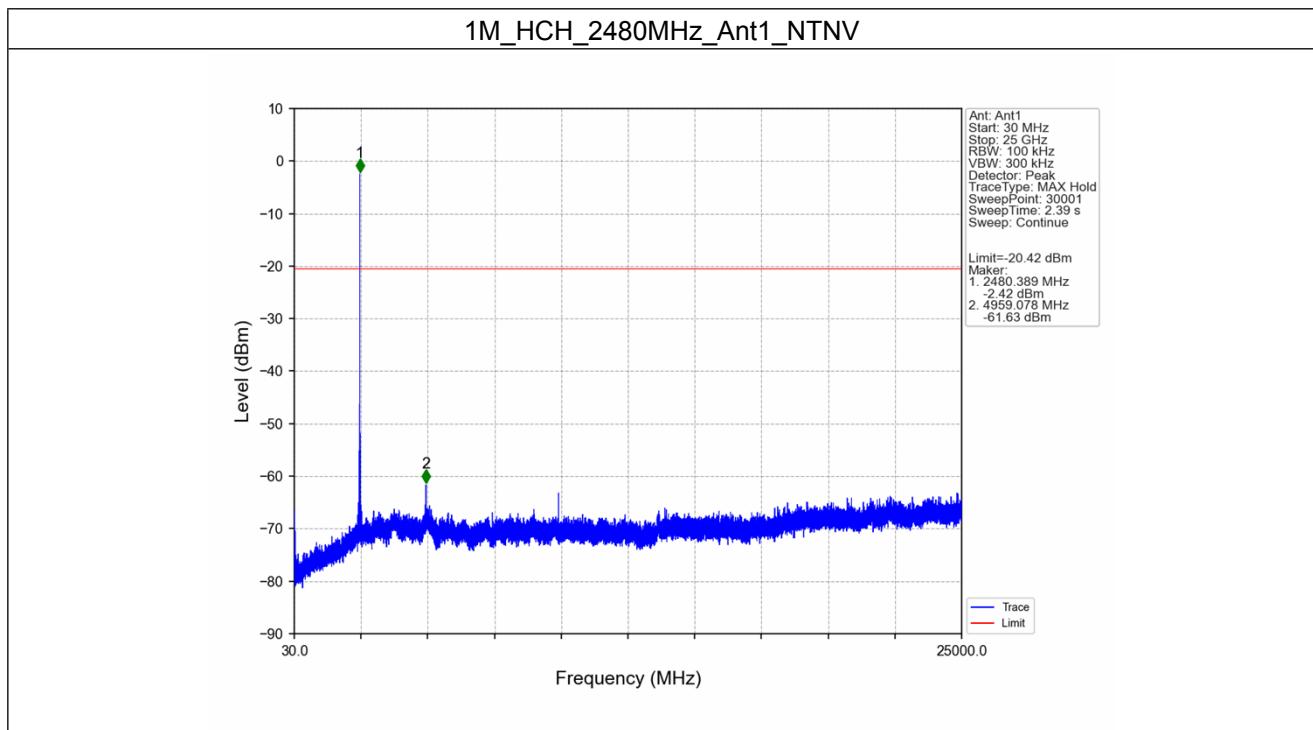
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- End of the Report -



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