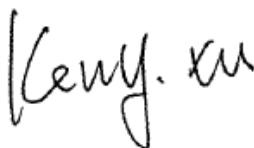


**TEST REPORT**

<b>Application No.:</b>	SZCR2405001614AT
<b>Applicant:</b>	Segway Technology Co., Ltd.
<b>Address of Applicant:</b>	No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, 213100 China
<b>Manufacturer:</b>	Segway Technology Co., Ltd.
<b>Address of Manufacturer:</b>	No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, 213100 China
<b>Factory:</b>	Shenzhen Omni Intelligent Technology Co., LTD.
<b>Address of Factory:</b>	11th Floor, Building 31, Phase III, Lianchuang Technology Park, Nanwan Street, Longgang District, Shenzhen, Guang Dong, China
<b>Equipment Under Test (EUT):</b>	
<b>EUT Name:</b>	T-BOX
<b>Model No.:</b>	NB-ORBOXC14
<b>Trade Mark:</b>	Segway
<b>FCC ID:</b>	2BGR3-OR0002
<b>Standard(s) :</b>	47 CFR Part 15, Subpart C 15.247
<b>Date of Receipt:</b>	2024-05-06
<b>Date of Test:</b>	2024-05-14 to 2024-06-05
<b>Date of Issue:</b>	2024-06-08

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

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



Keny Xu

EMC Laboratory Manager

SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Services Laboratory

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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2024-06-08		Original

<b>Authorized for issue by:</b>			
		Vincent Chen	
		_____	
		Vincent Chen/Project Engineer	
		Eric Fu	
		_____	
		Eric Fu/Reviewer	

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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 6.10.5	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

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## 4 General Information

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

Power supply:	DC 12V Input
Cable Loss (for RF conducted test):	0.5dB
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Modulation Type:	GFSK
Number of Channels:	40
Data Rate:	1Mbps, 2Mbps
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0.58dBi

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.
--	--	--	--

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz); ± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz); ± 4.8dB (18-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
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  $U_{cispr/ETSI}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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### 4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None

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Shenzhen Branch Inspection & Testing Services Laboratory

## 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>
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

<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>
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TPSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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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

##### 15.203 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.

##### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.58dBi.

Antenna location: Refer to internal photos



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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 6.10.5

Measurement Distance: 3m

Limit:

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: 21.7 °C      Humidity: 49.2 % RH      Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

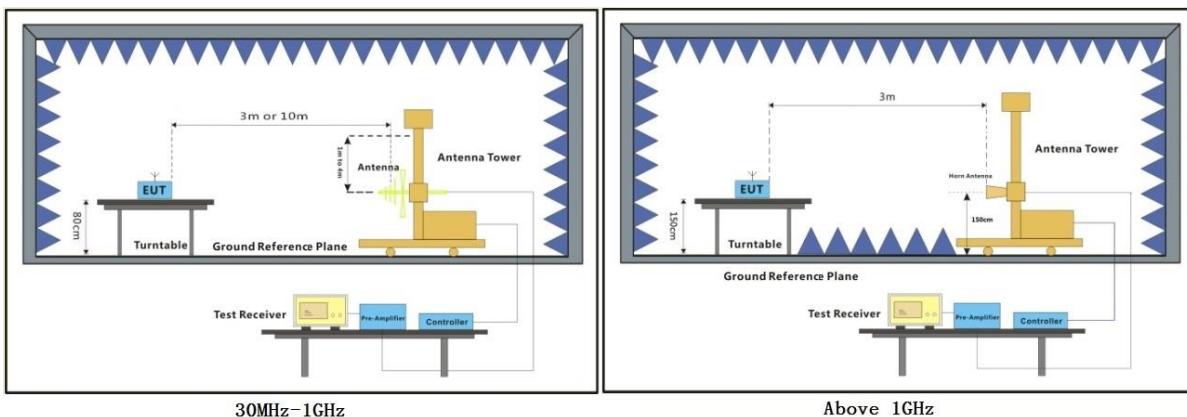
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

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

- 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.



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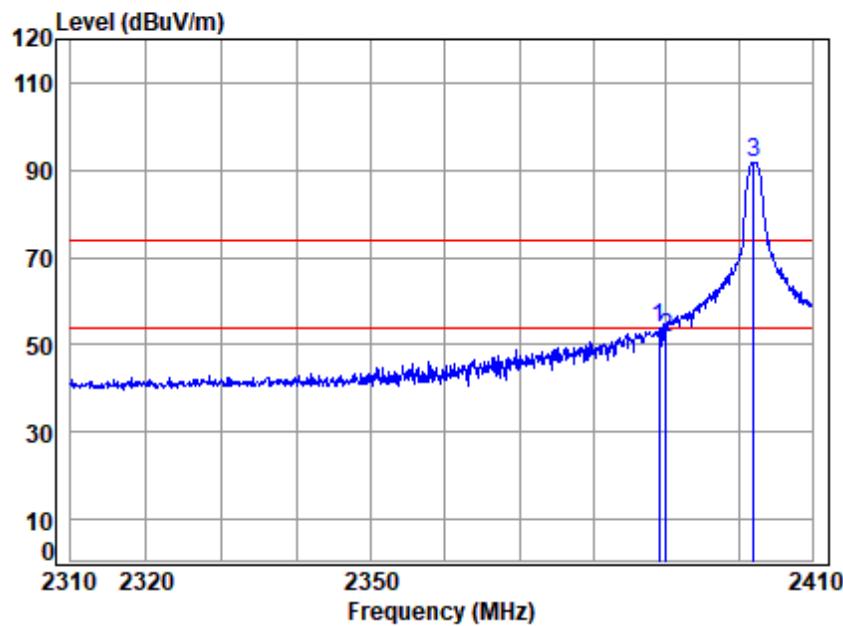
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2402 Band edge  
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	
							dBuV	dBuV/m
1 2389.052	5.07	29.10	37.44	57.22	53.95	74.00	-20.05	peak
2 2390.000	5.08	29.10	37.44	54.66	51.40	74.00	-22.60	peak
3 p 2402.000	5.09	29.09	37.41	95.08	91.85	74.00	17.85	peak



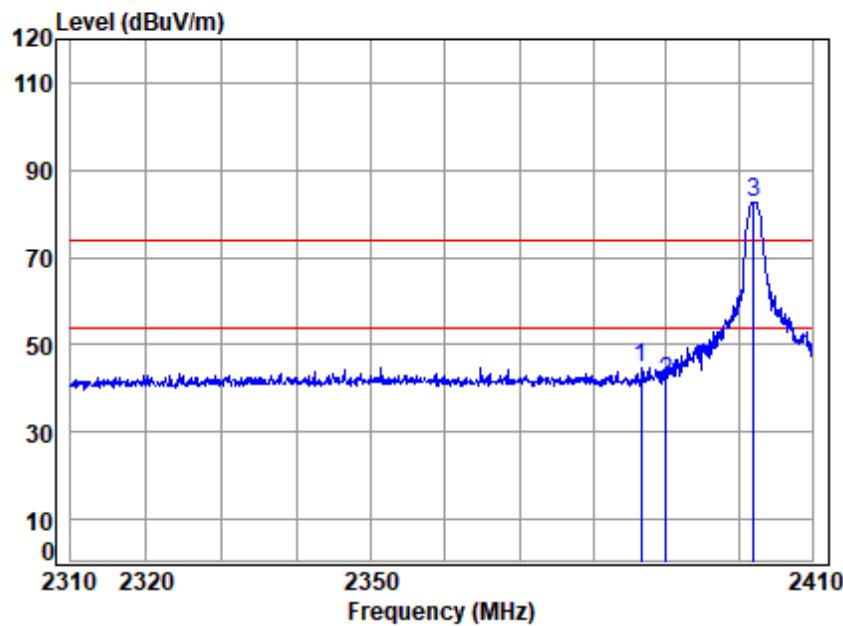
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2402 Band edge  
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 2386.623	5.07	29.10	37.44	47.96	44.69	74.00	-29.31	peak
2 2390.000	5.08	29.10	37.44	44.76	41.50	74.00	-32.50	peak
3 p 2402.000	5.09	29.09	37.41	85.71	82.48	74.00	8.48	peak

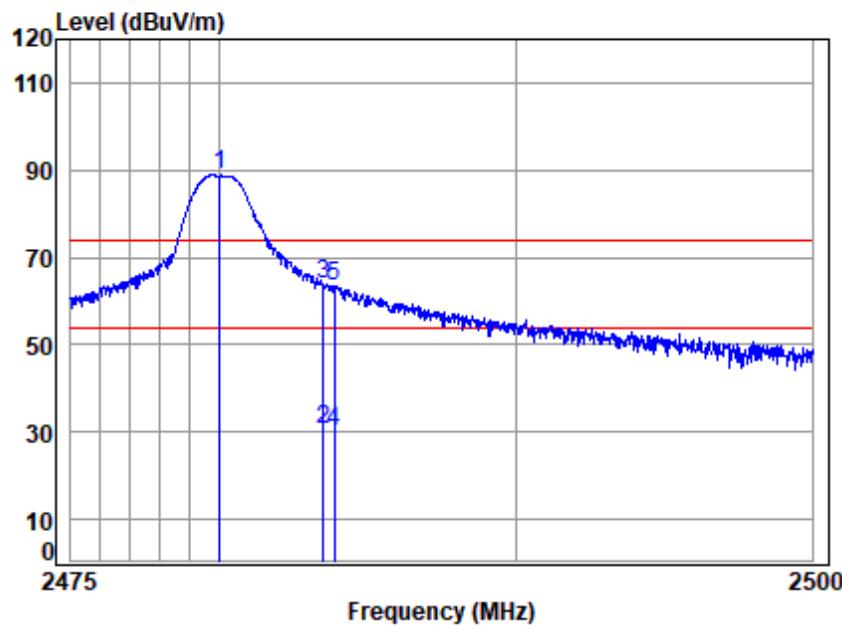
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Shenzhen Branch / CSTC Laboratory

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2480 Band edge  
Note : BLE 1M

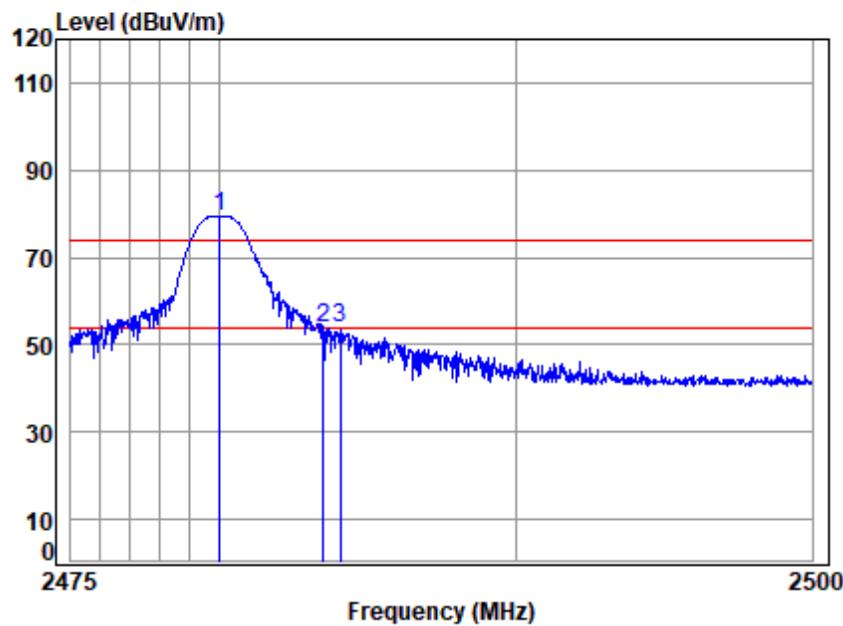
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
						dBuV	dBuV/m	
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	5.16	28.90	37.22	91.97	88.81	74.00	14.81	peak
2 q 2483.500	5.16	28.90	37.22	33.70	30.54	54.00	-23.46	Average
3 2483.500	5.16	28.90	37.22	67.18	64.02	74.00	-9.98	peak
4 2483.846	5.16	28.90	37.22	33.47	30.31	54.00	-23.69	Average
5 2483.846	5.16	28.90	37.22	66.79	63.63	74.00	-10.37	peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2480 Band edge  
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
						dB	dBuV	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 2480.000	5.16	28.90	37.22	82.57	79.41	74.00	5.41	peak
2 2483.500	5.16	28.90	37.22	57.10	53.94	74.00	-20.06	peak
3 2484.071	5.16	28.90	37.22	56.81	53.65	74.00	-20.35	peak

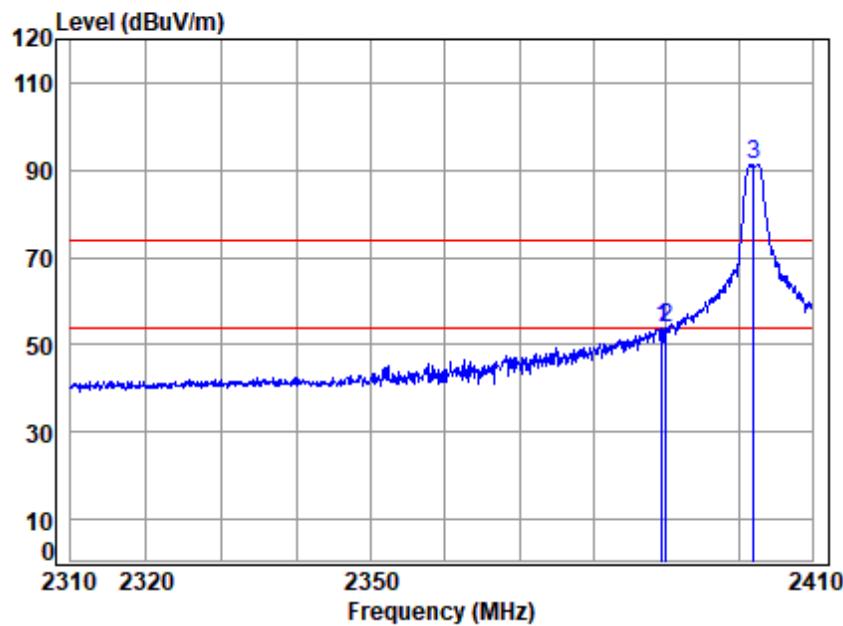
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Shenzhen Branch (CN) SGS Laboratory

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2402 Band edge  
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	
							dBuV	dBuV/m
1 2389.457	5.07	29.10	37.44	57.22	53.95	74.00	-20.05	peak
2 2390.000	5.08	29.10	37.44	57.04	53.78	74.00	-20.22	peak
3 p 2402.000	5.09	29.09	37.41	94.48	91.25	74.00	17.25	peak

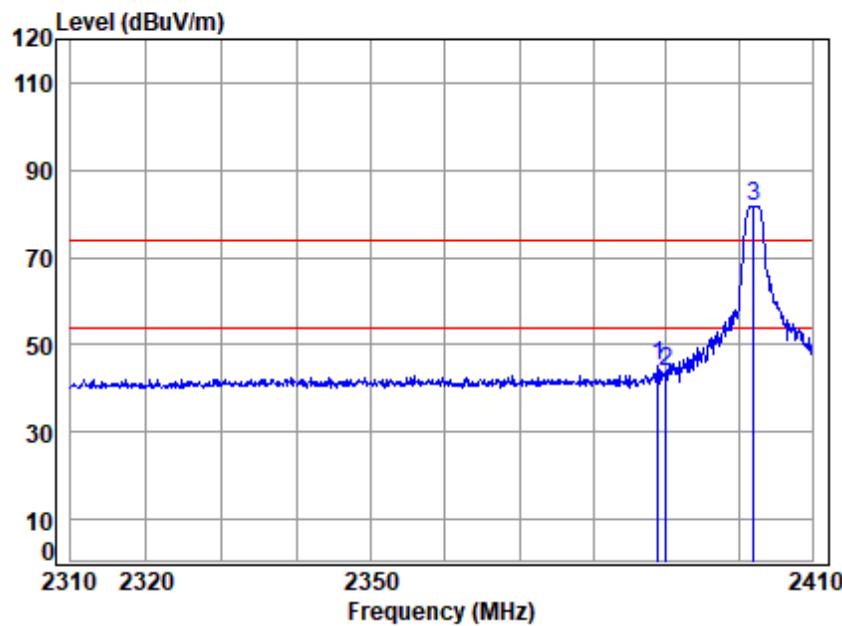
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2402 Band edge  
Note : BLE 2M

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2388.850	5.07	29.10	37.44	48.49	45.22	74.00	-28.78 peak
2 2390.000	5.08	29.10	37.44	46.89	43.63	74.00	-30.37 peak
3 p 2402.000	5.09	29.09	37.41	85.10	81.87	74.00	7.87 peak

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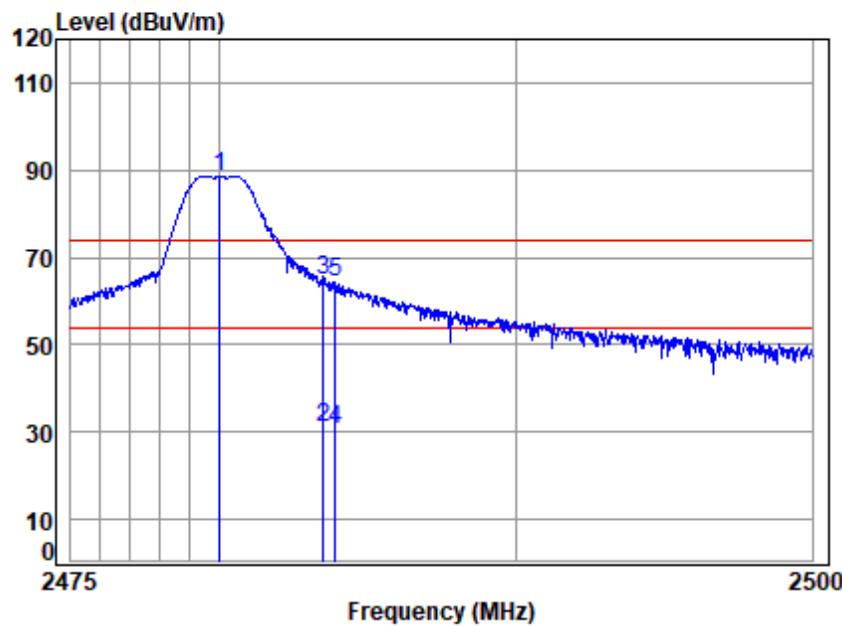
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2480 Band edge  
Note : BLE 2M

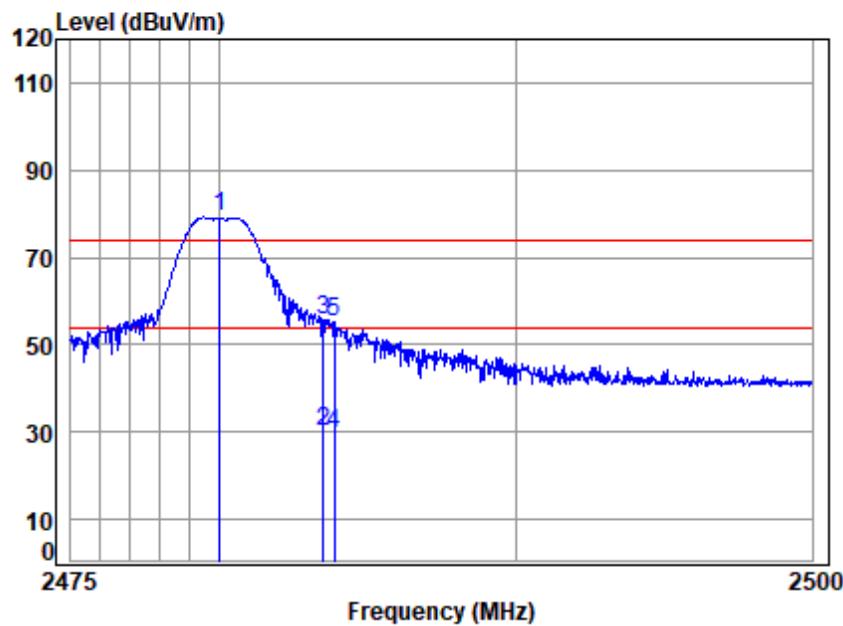
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
						dBuV	dBuV/m	
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	5.16	28.90	37.22	91.87	88.71	74.00	14.71	peak
2 q 2483.500	5.16	28.90	37.22	34.00	30.84	54.00	-23.16	Average
3 2483.500	5.16	28.90	37.22	68.07	64.91	74.00	-9.09	peak
4 2483.896	5.16	28.90	37.22	33.63	30.47	54.00	-23.53	Average
5 2483.896	5.16	28.90	37.22	67.30	64.14	74.00	-9.86	peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2480 Band edge  
Note : BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over	Remark
							dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 2480.000	5.16	28.90	37.22	82.34	79.18	74.00	5.18	peak
2 q 2483.500	5.16	28.90	37.22	33.16	30.00	54.00	-24.00	Average
3 2483.500	5.16	28.90	37.22	58.65	55.49	74.00	-18.51	peak
4 2483.846	5.16	28.90	37.22	32.73	29.57	54.00	-24.43	Average
5 2483.846	5.16	28.90	37.22	58.41	55.25	74.00	-18.75	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

Measurement Distance: 3m

Limit:

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: 23.6 °C      Humidity: 52.3 % RH      Atmospheric Pressure: 1020 mbar

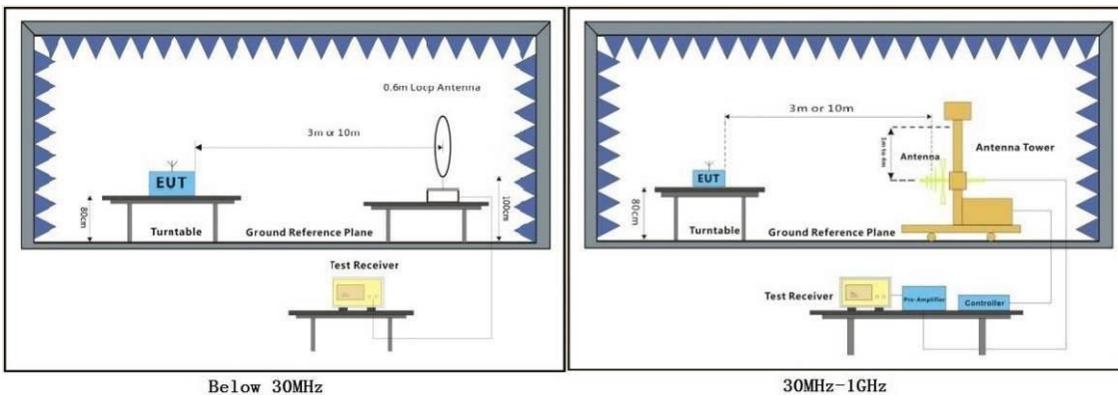
**7.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

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**7.2.3 Test Setup Diagram****7.2.4 Measurement Procedure and Data**

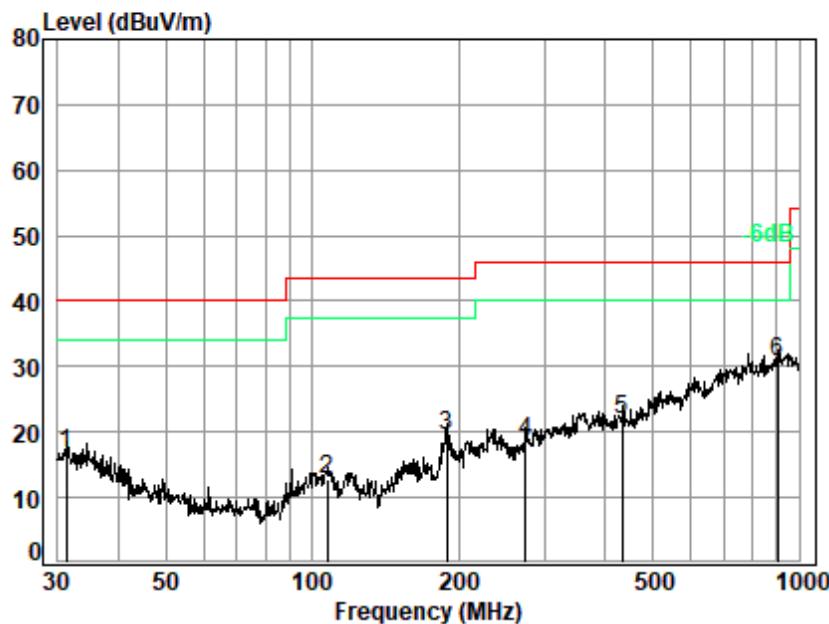
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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.



Test Mode: 00; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01614AT  
 Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.29	20.60	0.65	27.79	23.18	16.64	40.00	-23.36 QP
2	107.13	12.13	1.23	27.56	26.91	12.71	43.50	-30.79 QP
3	189.07	14.29	1.67	27.22	30.67	19.41	43.50	-24.09 QP
4	274.19	17.07	2.06	26.86	26.42	18.69	46.00	-27.31 QP
5	434.07	21.03	2.67	27.30	25.53	21.93	46.00	-24.07 QP
6 q	903.31	27.83	4.10	26.74	25.42	30.61	46.00	-15.39 QP

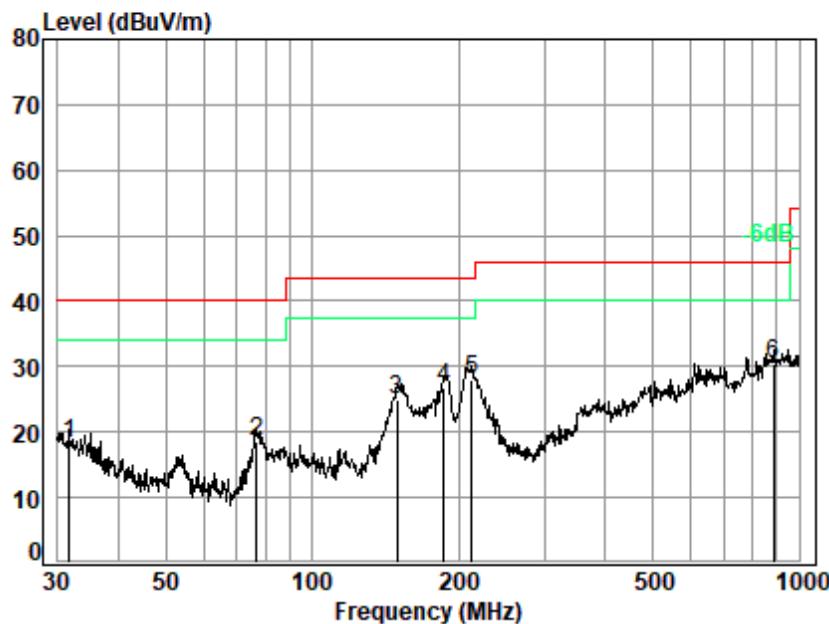
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 Shenzhen Branch / SGS-CSTC Laboratory

Test Mode: 00; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01614AT  
Test Mode: 00

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark		
					MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	31.62	20.45	0.66	27.79	25.08	18.40	40.00	40.00	-21.60	QP
2	76.78	10.39	1.04	27.66	34.70	18.47	40.00	40.00	-21.53	QP
3	149.49	12.98	1.46	27.38	37.98	25.04	43.50	43.50	-18.46	QP
4	186.44	14.30	1.66	27.23	37.92	26.65	43.50	43.50	-16.85	QP
5 q	212.27	14.79	1.78	27.12	38.51	27.96	43.50	43.50	-15.54	QP
6	887.61	27.96	4.06	26.85	25.28	30.45	46.00	46.00	-15.55	QP

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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

Measurement Distance: 3m

Limit:

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

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

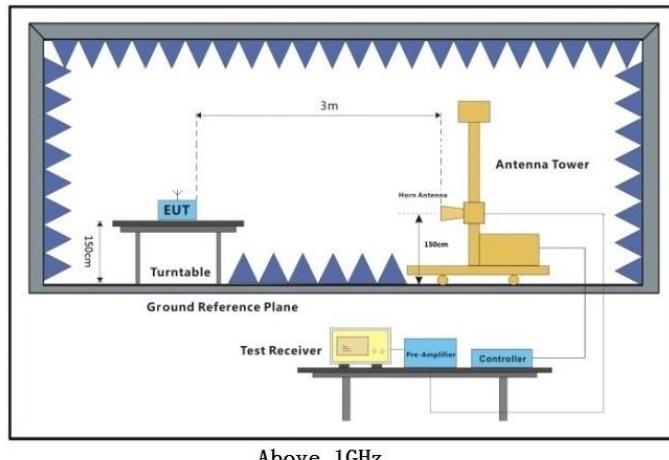
Operating Environment:

Temperature: 21.7 °C      Humidity: 48.8 % RH      Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_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.



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Shenzhen Branch Inspection & Testing Services Laboratory

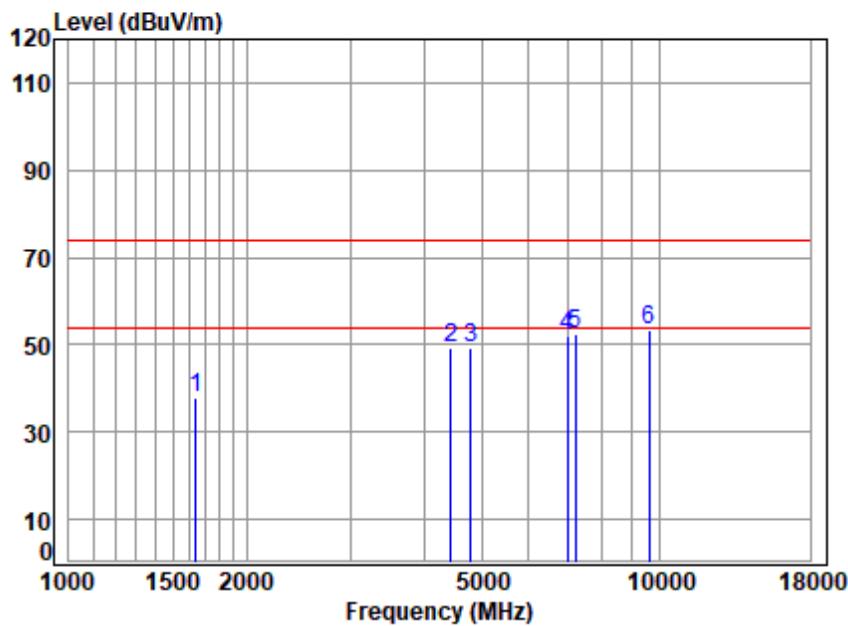
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2402 TX RSE  
: BLE 1M

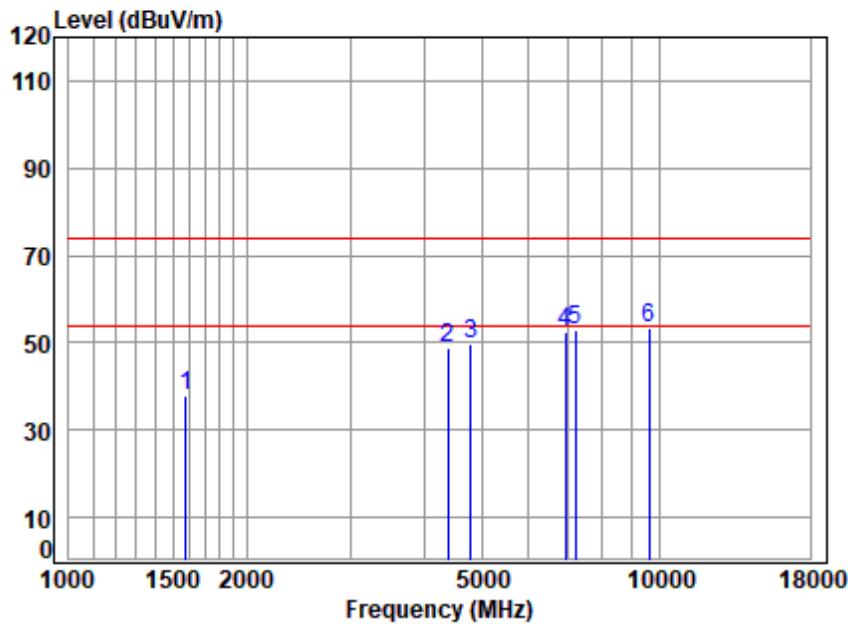
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1	1644.019	4.26	26.36	38.41	45.50	37.71	74.00	-36.29	peak
2	4430.628	7.08	34.43	35.77	43.59	49.33	74.00	-24.67	peak
3	4804.000	7.31	34.32	35.52	43.04	49.15	74.00	-24.85	peak
4	6995.172	8.92	35.71	35.57	42.94	52.00	74.00	-22.00	peak
5	7206.000	9.18	35.70	35.79	43.25	52.34	74.00	-21.66	peak
6	p 9608.000	12.36	37.42	37.46	40.90	53.22	74.00	-20.78	peak

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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01614AT/01615AT  
 Mode : 2402 TX RSE  
 : BLE 1M

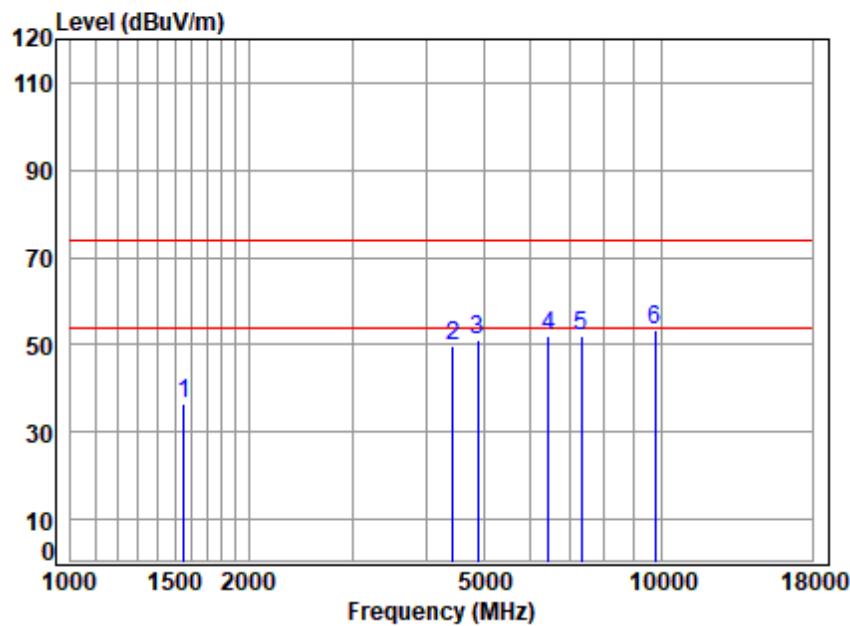
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1578.822	4.17	26.88	38.40	45.03	37.68	74.00	-36.32	peak
2	4379.699	7.04	34.64	35.81	42.89	48.76	74.00	-25.24	peak
3	4804.000	7.31	34.32	35.52	43.69	49.80	74.00	-24.20	peak
4	6934.778	8.87	35.74	35.53	43.25	52.33	74.00	-21.67	peak
5	7206.000	9.18	35.70	35.79	43.93	53.02	74.00	-20.98	peak
6 p	9608.000	12.36	37.42	37.46	40.96	53.28	74.00	-20.72	peak

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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01614AT/01615AT  
 Mode : 2440 TX RSE  
 : BLE 1M

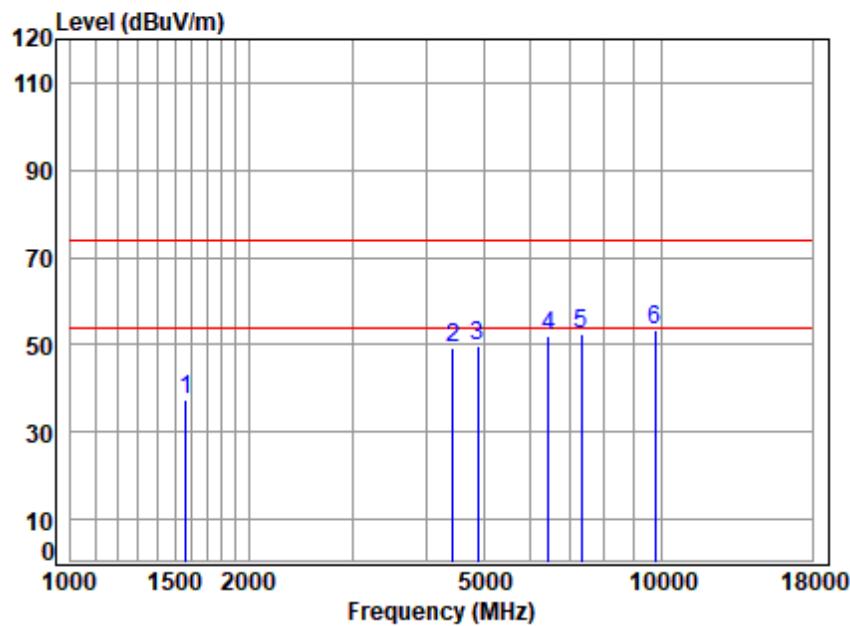
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1551.677	4.13	26.99	38.40	43.98	36.70	74.00	-37.30	peak
2	4430.628	7.08	34.43	35.77	43.93	49.67	74.00	-24.33	peak
3	4880.000	7.36	34.62	35.47	44.81	51.32	74.00	-22.68	peak
4	6432.732	8.51	35.40	35.20	43.32	52.03	74.00	-21.97	peak
5	7320.000	9.32	35.70	35.90	42.95	52.07	74.00	-21.93	peak
6	p 9760.000	12.47	37.38	37.43	40.75	53.17	74.00	-20.83	peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2440 TX RSE  
: BLE 1M

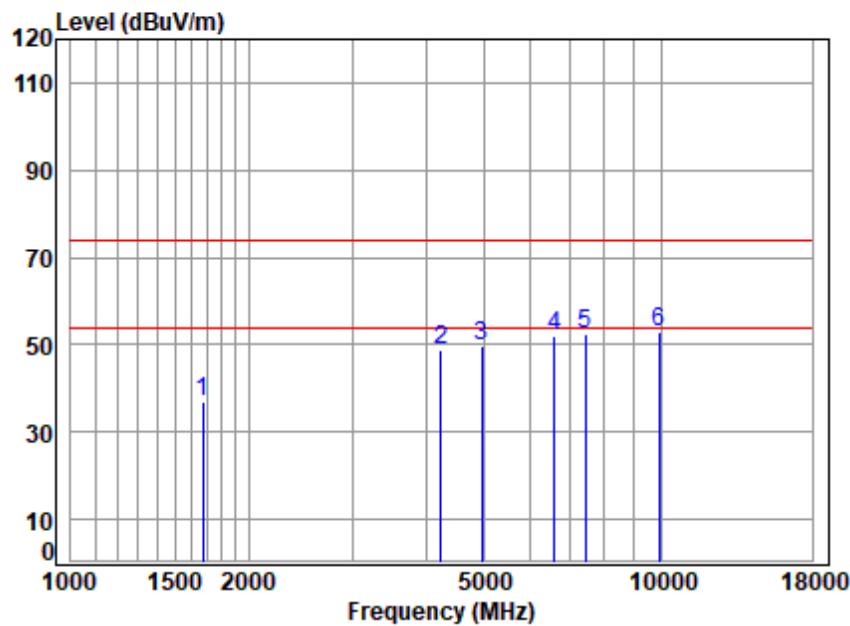
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	
							dB	Remark
MHz								
1	1565.191	4.15	26.94	38.40	44.80	37.49	74.00	-36.51 peak
2	4430.628	7.08	34.43	35.77	43.45	49.19	74.00	-24.81 peak
3	4880.000	7.36	34.62	35.47	43.35	49.86	74.00	-24.14 peak
4	6451.353	8.52	35.50	35.22	43.07	51.87	74.00	-22.13 peak
5	7320.000	9.32	35.70	35.90	43.20	52.32	74.00	-21.68 peak
6	p 9760.000	12.47	37.38	37.43	41.07	53.49	74.00	-20.51 peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2480 TX RSE  
: BLE 1M

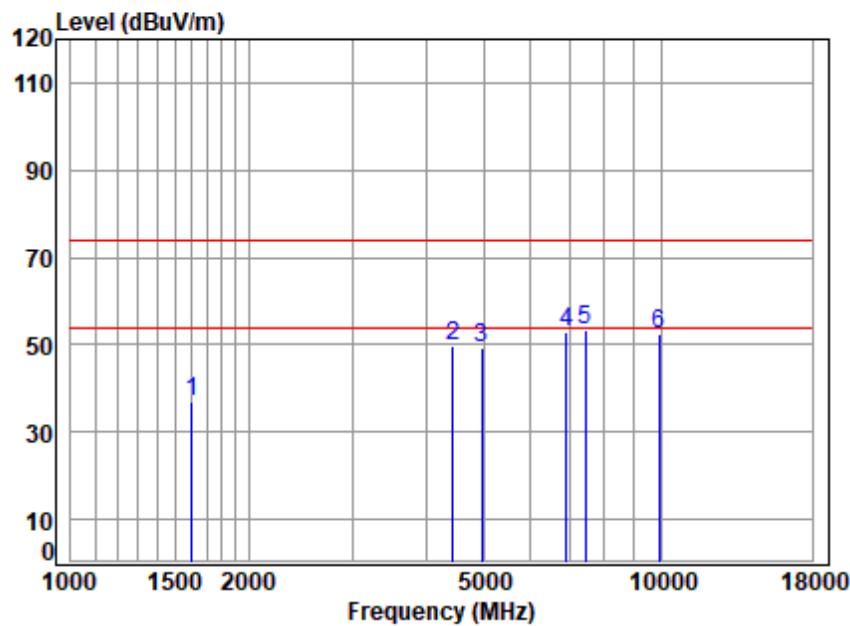
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1672.779	4.30	26.25	38.41	44.64	36.78	74.00	-37.22	peak	
2 4230.396	6.94	33.80	35.92	43.84	48.66	74.00	-25.34	peak	
3 4960.000	7.41	34.56	35.42	43.26	49.81	74.00	-24.19	peak	
4 6602.265	8.64	35.30	35.32	43.22	51.84	74.00	-22.16	peak	
5 7440.000	9.46	35.96	36.02	42.96	52.36	74.00	-21.64	peak	
6 p 9920.000	12.58	37.30	37.39	40.33	52.82	74.00	-21.18	peak	

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2480 TX RSE  
: BLE 1M

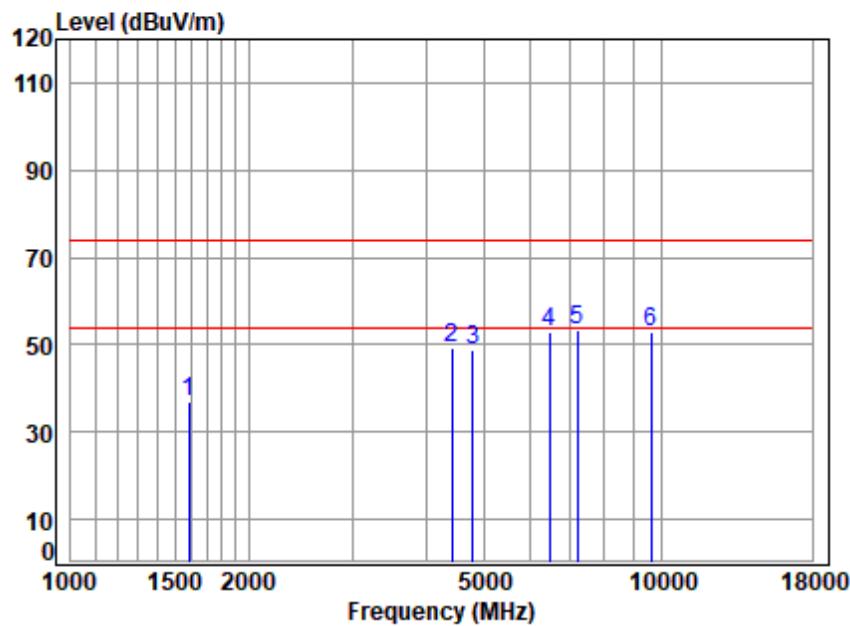
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1601.804	4.20	26.78	38.40	44.40	36.98	74.00	-37.02	peak
2	4443.453	7.09	34.28	35.77	44.22	49.82	74.00	-24.18	peak
3	4960.000	7.41	34.56	35.42	42.77	49.32	74.00	-24.68	peak
4	6914.763	8.86	35.66	35.52	44.07	53.07	74.00	-20.93	peak
5 p	7440.000	9.46	35.96	36.02	44.06	53.46	74.00	-20.54	peak
6	9920.000	12.58	37.30	37.39	40.18	52.67	74.00	-21.33	peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2402 TX RSE  
: BLE 2M

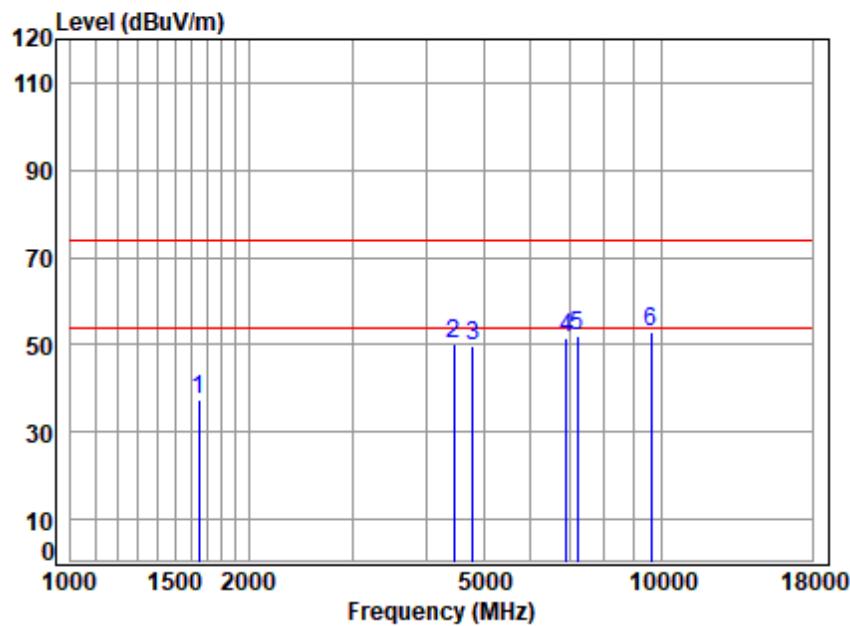
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1587.975	4.18	26.85	38.40	44.50	37.13	74.00	-36.87 peak
2 4417.841	7.07	34.59	35.78	43.31	49.19	74.00	-24.81 peak
3 4804.000	7.31	34.32	35.52	42.52	48.63	74.00	-25.37 peak
4 6470.026	8.54	35.54	35.23	44.20	53.05	74.00	-20.95 peak
5 p 7206.000	9.18	35.70	35.79	44.10	53.19	74.00	-20.81 peak
6 9608.000	12.36	37.42	37.46	40.47	52.79	74.00	-21.21 peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2402 TX RSE  
: BLE 2M

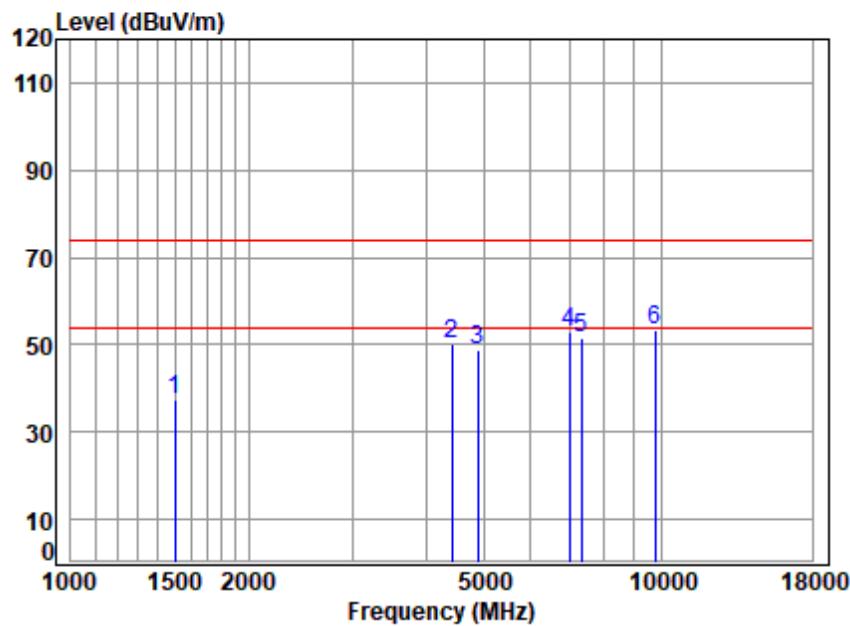
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	dB
1	1648.778	4.26	26.31	38.41	45.34	37.50	74.00	-36.50	peak
2	4456.315	7.09	34.12	35.76	44.64	50.09	74.00	-23.91	peak
3	4804.000	7.31	34.32	35.52	43.78	49.89	74.00	-24.11	peak
4	6914.763	8.86	35.66	35.52	42.61	51.61	74.00	-22.39	peak
5	7206.000	9.18	35.70	35.79	42.91	52.00	74.00	-22.00	peak
6 p	9608.000	12.36	37.42	37.46	40.41	52.73	74.00	-21.27	peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2440 TX RSE  
: BLE 2M

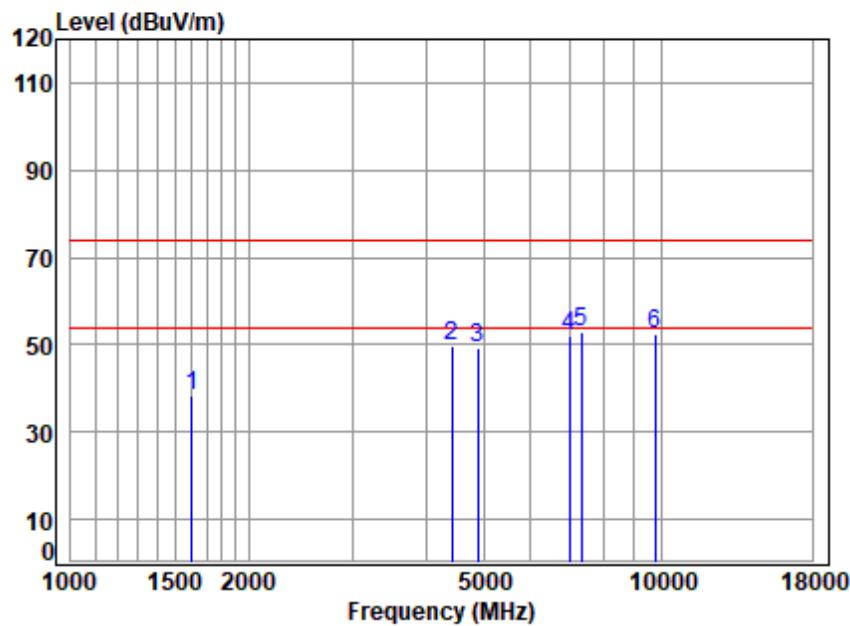
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1498.781	4.06	26.77	38.39	44.77	37.21	74.00	-36.79	peak
2	4417.841	7.07	34.59	35.78	44.15	50.03	74.00	-23.97	peak
3	4880.000	7.36	34.62	35.47	42.31	48.82	74.00	-25.18	peak
4	6974.982	8.90	35.75	35.55	43.80	52.90	74.00	-21.10	peak
5	7320.000	9.32	35.70	35.90	42.61	51.73	74.00	-22.27	peak
6	p 9760.000	12.47	37.38	37.43	40.78	53.20	74.00	-20.80	peak

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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01614AT/01615AT  
 Mode : 2440 TX RSE  
 : BLE 2M

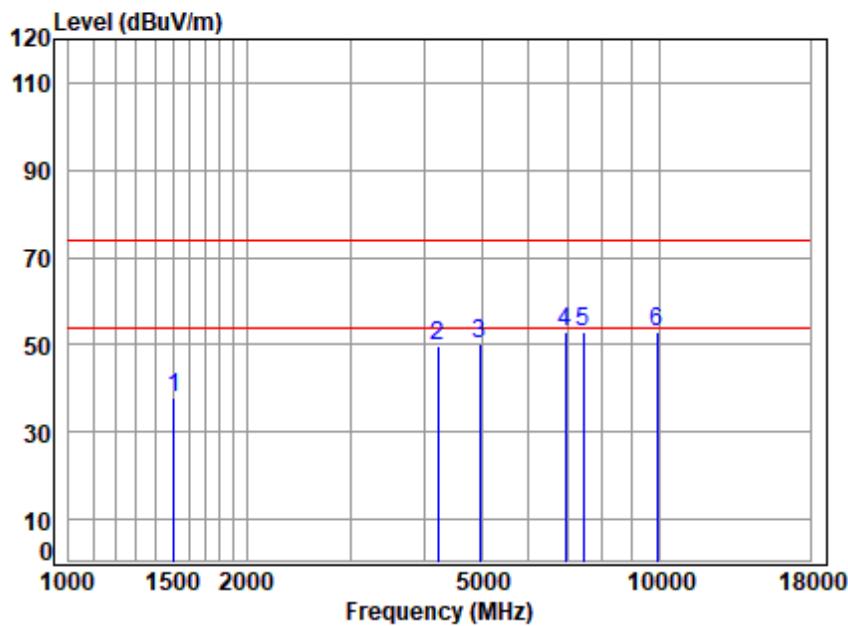
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1606.441	4.21	26.74	38.40	45.68	38.23	74.00	-35.77	peak
2	4417.841	7.07	34.59	35.78	43.90	49.78	74.00	-24.22	peak
3	4880.000	7.36	34.62	35.47	42.99	49.50	74.00	-24.50	peak
4	6995.172	8.92	35.71	35.57	43.08	52.14	74.00	-21.86	peak
5	7320.000	9.32	35.70	35.90	43.75	52.87	74.00	-21.13	peak
6	9760.000	12.47	37.38	37.43	40.27	52.69	74.00	-21.31	peak

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



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01614AT/01615AT  
Mode : 2480 TX RSE  
: BLE 2M

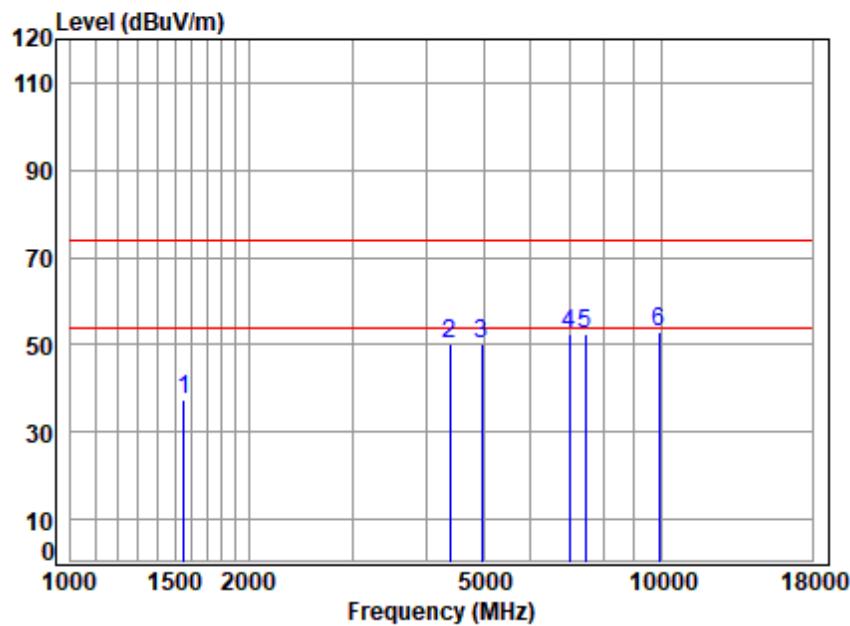
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1507.470	4.07	26.83	38.39	45.30	37.81	74.00	-36.19	peak
2	4218.186	6.93	33.80	35.93	45.11	49.91	74.00	-24.09	peak
3	4960.000	7.41	34.56	35.42	43.63	50.18	74.00	-23.82	peak
4	6934.778	8.87	35.74	35.53	43.72	52.80	74.00	-21.20	peak
5	7440.000	9.46	35.96	36.02	43.31	52.71	74.00	-21.29	peak
6	p 9920.000	12.58	37.30	37.39	40.59	53.08	74.00	-20.92	peak

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



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01614AT/01615AT  
Mode : 2480 TX RSE  
: BLE 2M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1556.169	4.14	26.98	38.40	44.51	37.23	74.00	-36.77	peak
2	4392.376	7.05	34.74	35.80	44.04	50.03	74.00	-23.97	peak
3	4960.000	7.41	34.56	35.42	43.42	49.97	74.00	-24.03	peak
4	6974.982	8.90	35.75	35.55	43.56	52.66	74.00	-21.34	peak
5	7440.000	9.46	35.96	36.02	43.18	52.58	74.00	-21.42	peak
6	p 9920.000	12.58	37.30	37.39	40.36	52.85	74.00	-21.15	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

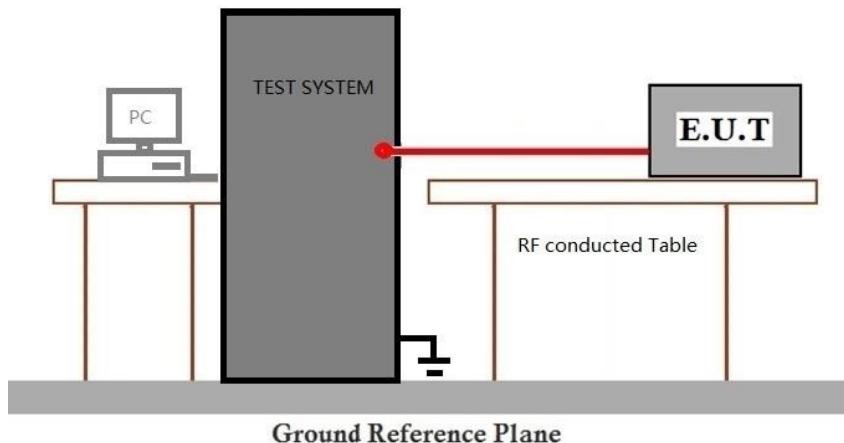
Operating Environment:

Temperature: 22.2 °C      Humidity: 37.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.4.3 Test Setup Diagram



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### 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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Shenzhen Branch SGS-CSTC Laboratory

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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:

≥500 kHz

### 7.5.1 E.U.T. Operation

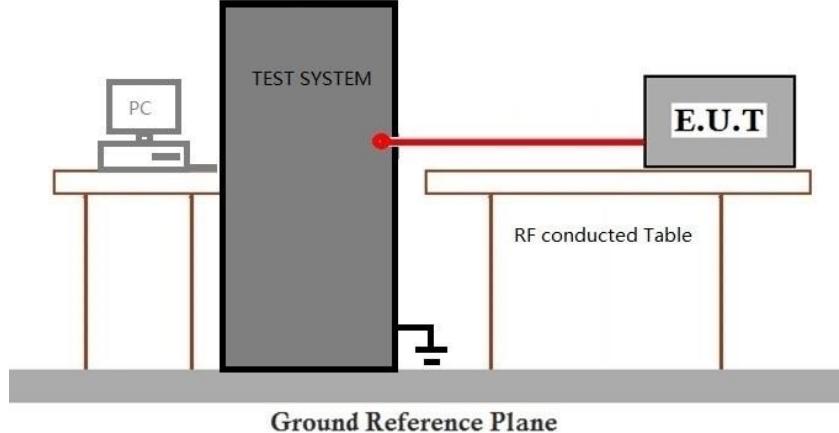
Operating Environment:

Temperature: 22.2 °C      Humidity: 37.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_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

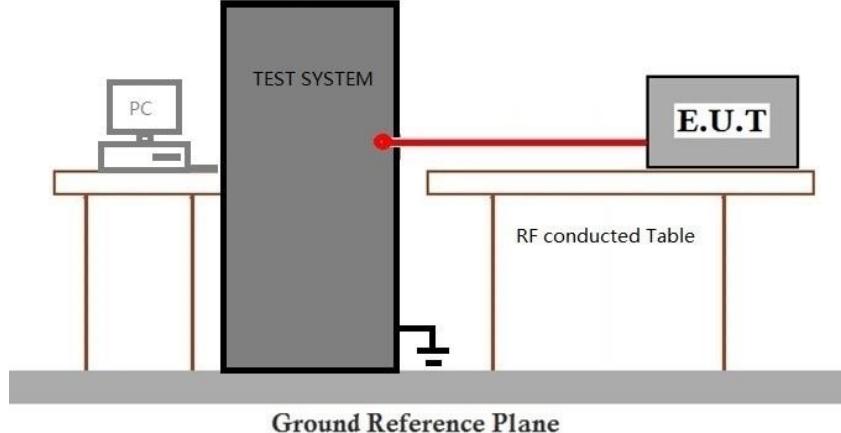
Operating Environment:

Temperature: 22.2 °C      Humidity: 37.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_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: 22.2 °C      Humidity: 37.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

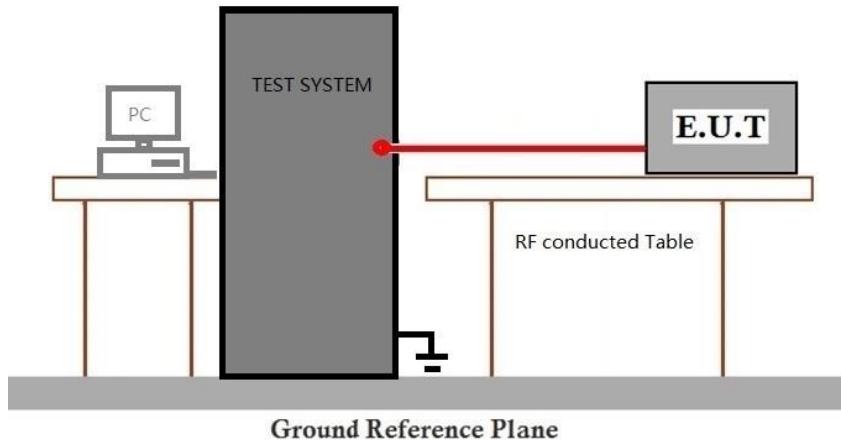
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

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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: 22.2 °C      Humidity: 37.1 % RH      Atmospheric Pressure: 1020 mbar

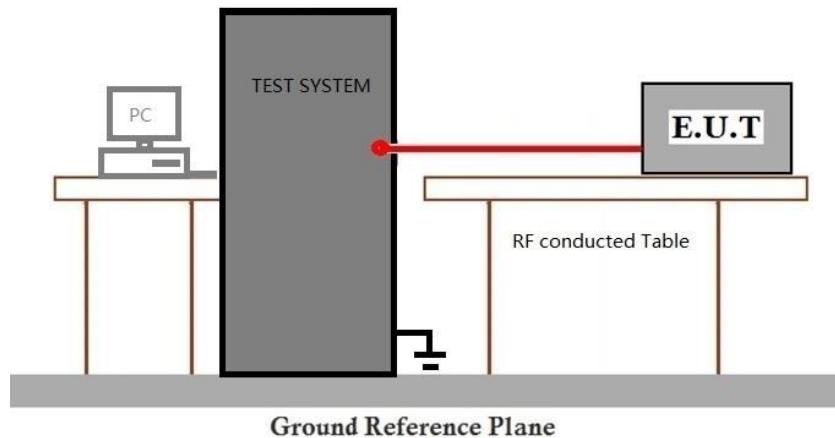
### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_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 SZCR2405001614AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2405001614AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.499	0.625	79.84	0.98	0.03
		2440	0.425	0.625	68.00	1.67	0.03
		2480	0.425	0.625	68.00	1.67	0.00
2M	SISO	2402	0.315	0.625	50.40	2.98	0.02
		2440	0.242	0.625	38.72	4.12	0.00
		2480	0.242	0.625	38.72	4.12	0.02



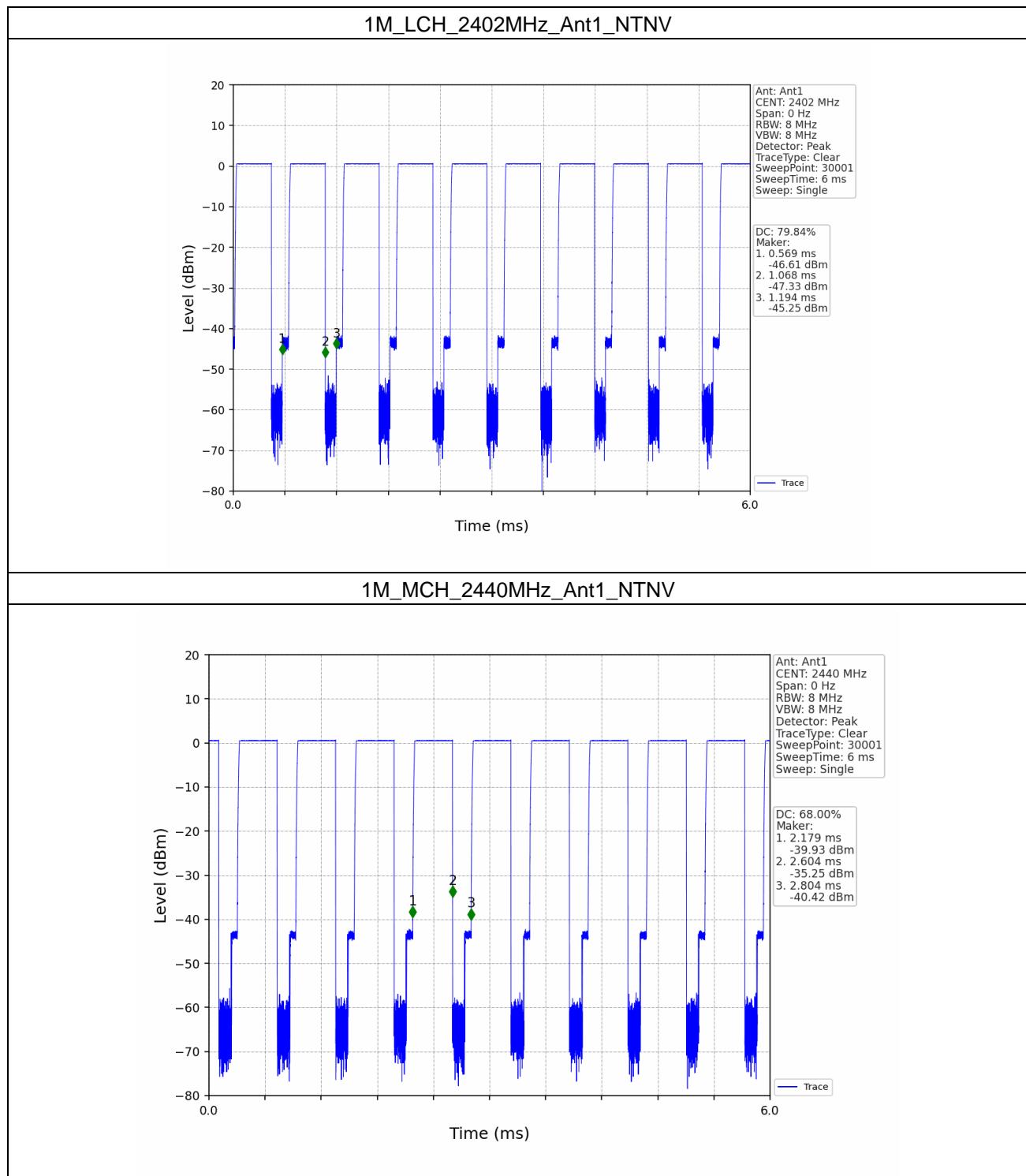
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### 1.1.2 Test Graph



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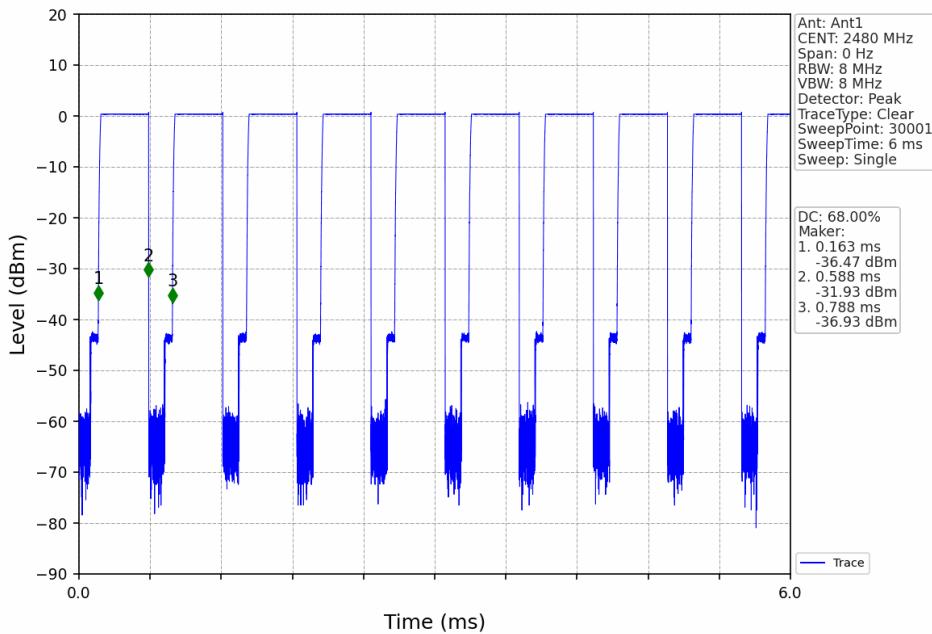
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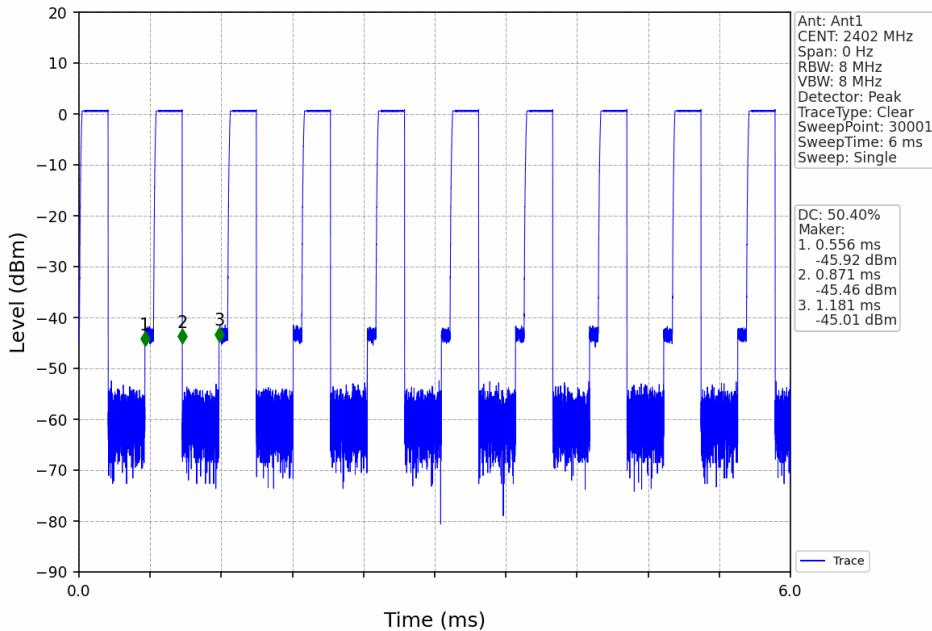
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### 1M\_HCH\_2480MHz\_Ant1\_NTNV

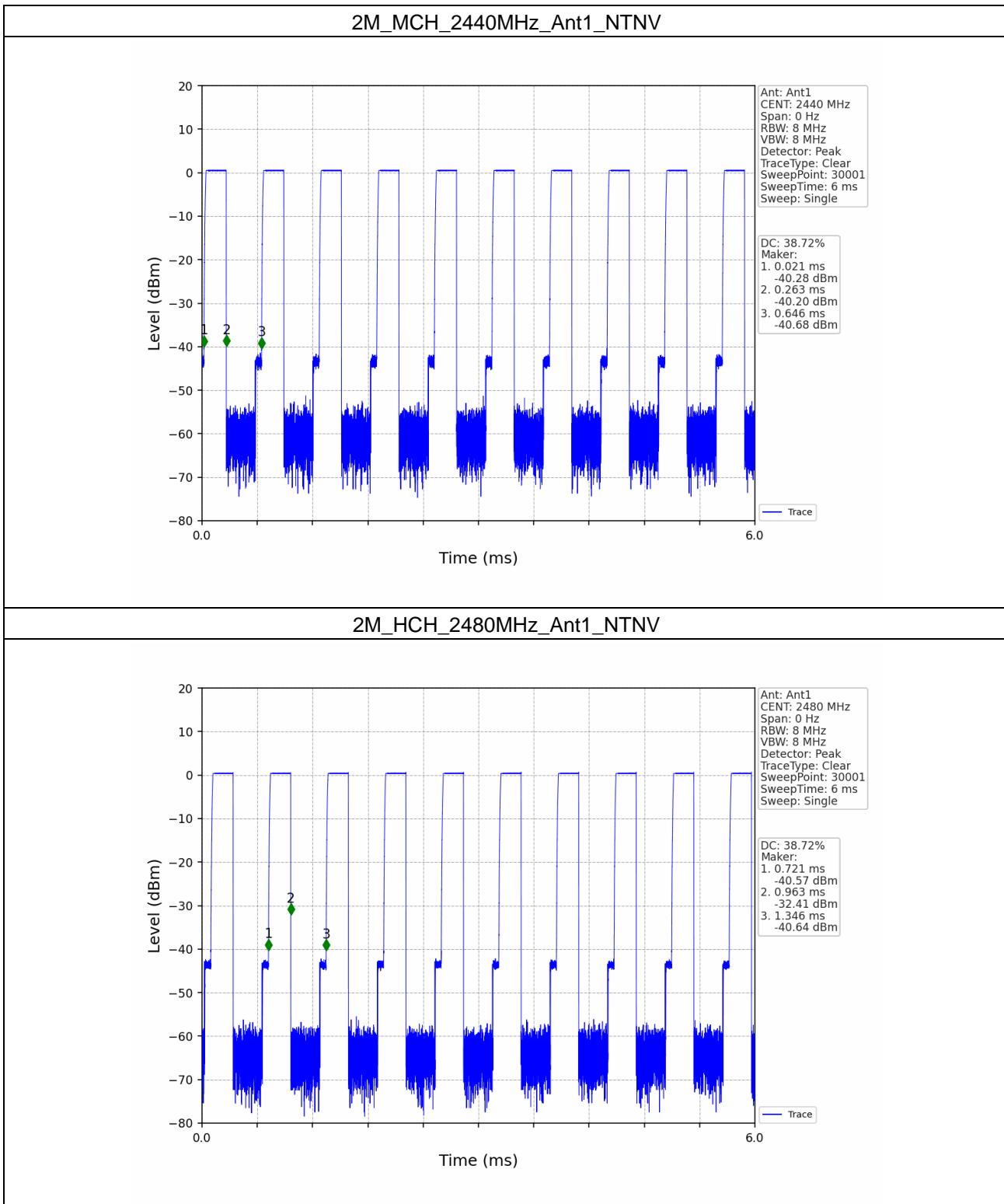


### 2M\_LCH\_2402MHz\_Ant1\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.015	/	Pass
		2440	1	1.015	/	Pass
		2480	1	1.012	/	Pass
2M	SISO	2402	1	2.043	/	Pass
		2440	1	2.045	/	Pass
		2480	1	2.046	/	Pass



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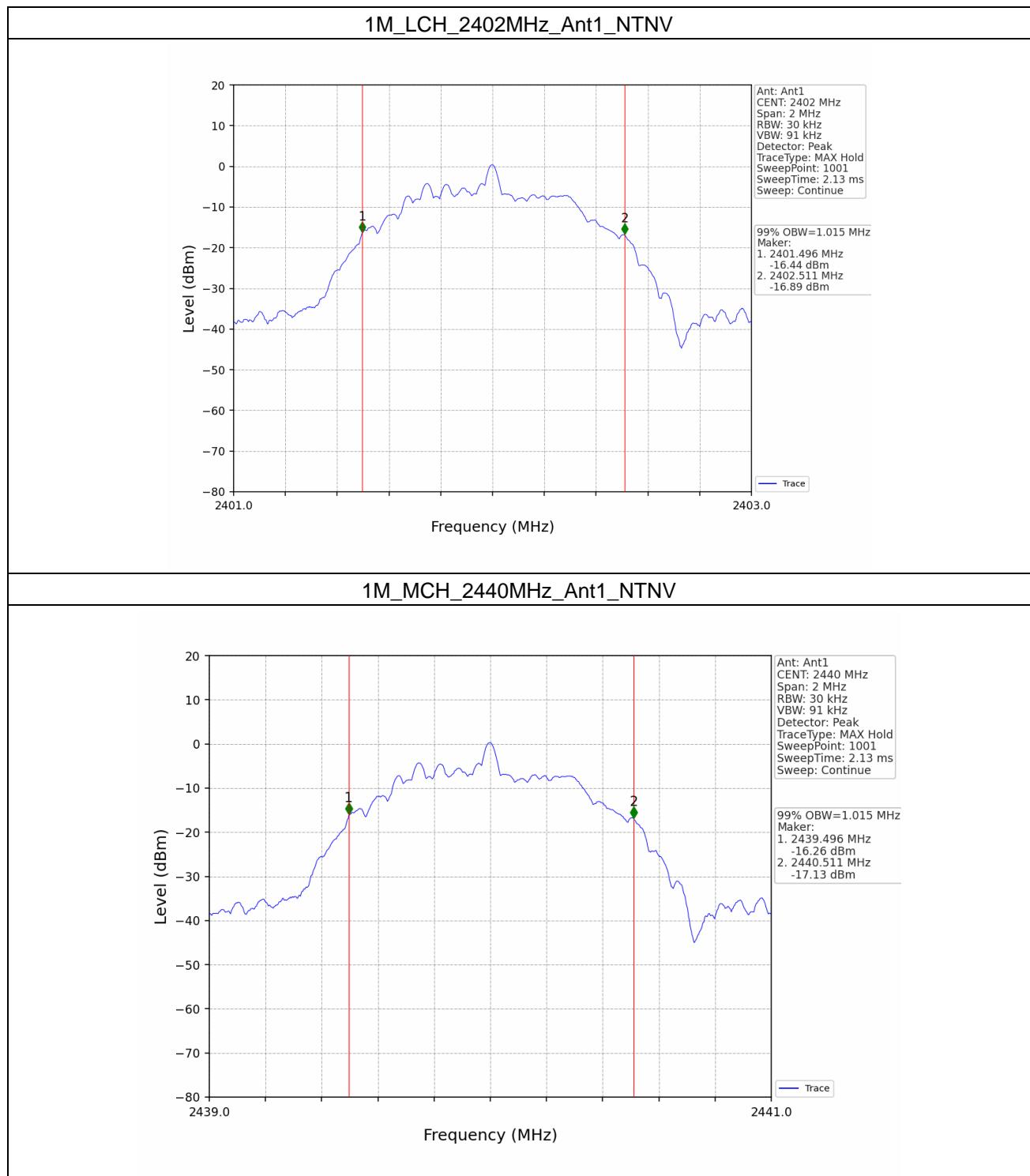
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### 2.1.2 Test Graph



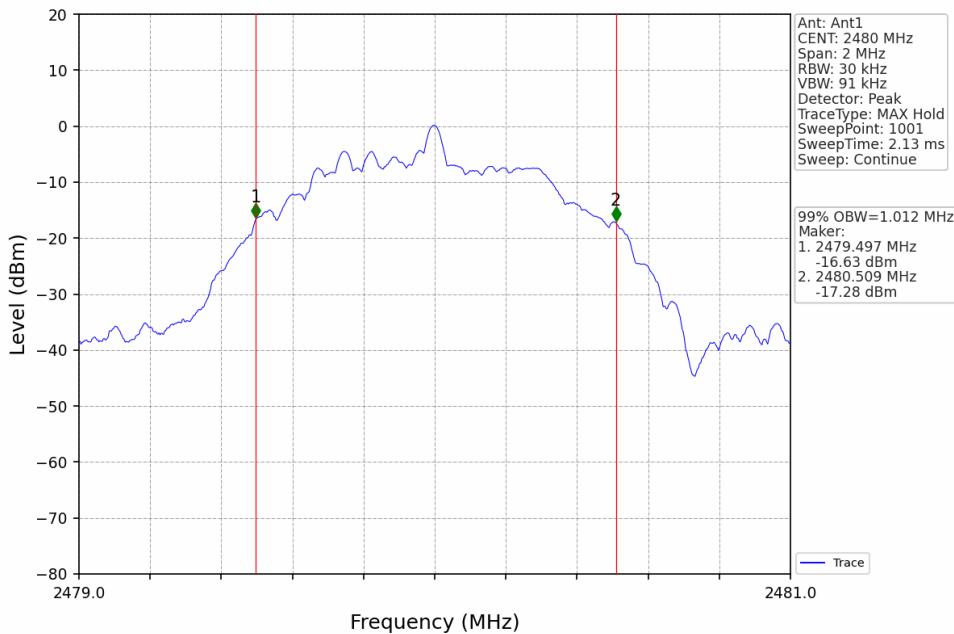
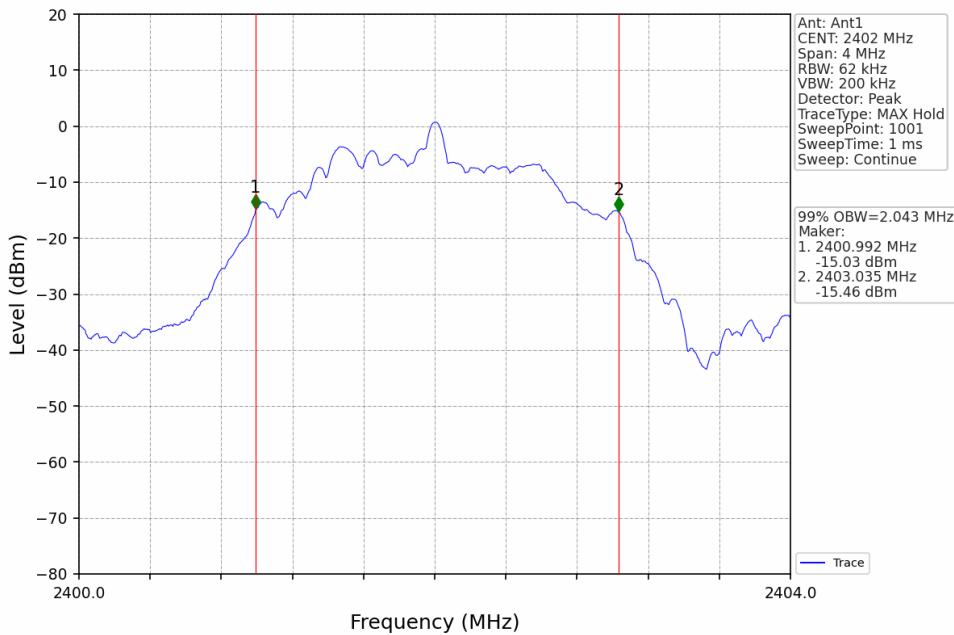
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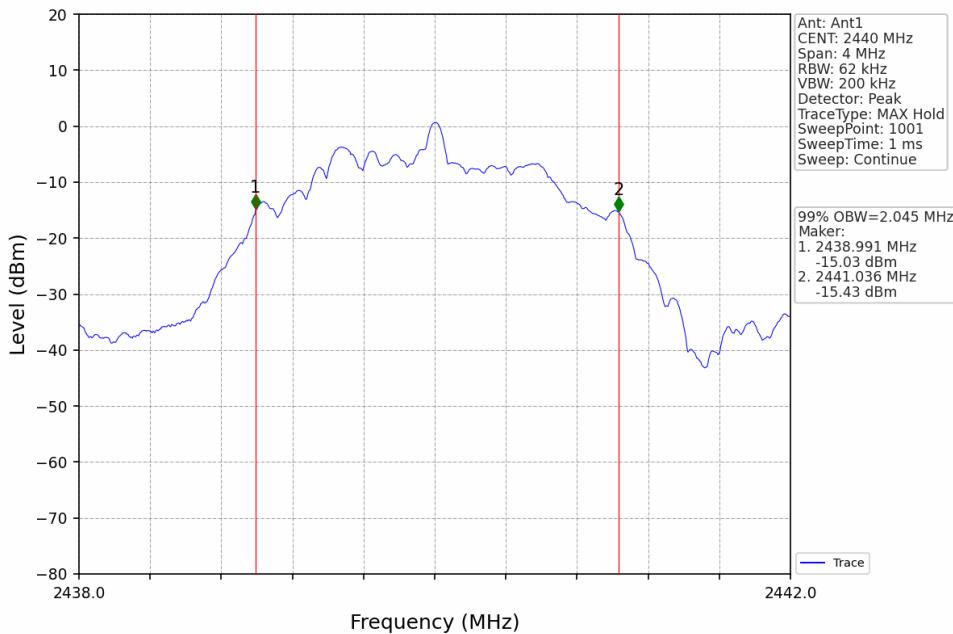
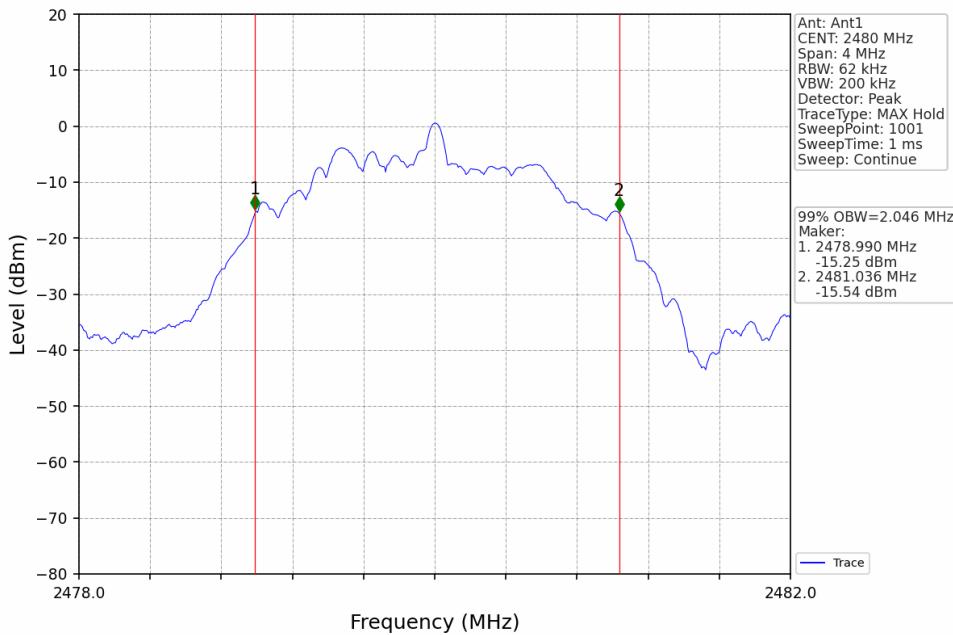
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**2.2 6dB BW****2.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.671	>=0.5	Pass
		2440	1	0.674	>=0.5	Pass
		2480	1	0.673	>=0.5	Pass
2M	SISO	2402	1	1.190	>=0.5	Pass
		2440	1	1.194	>=0.5	Pass
		2480	1	1.195	>=0.5	Pass



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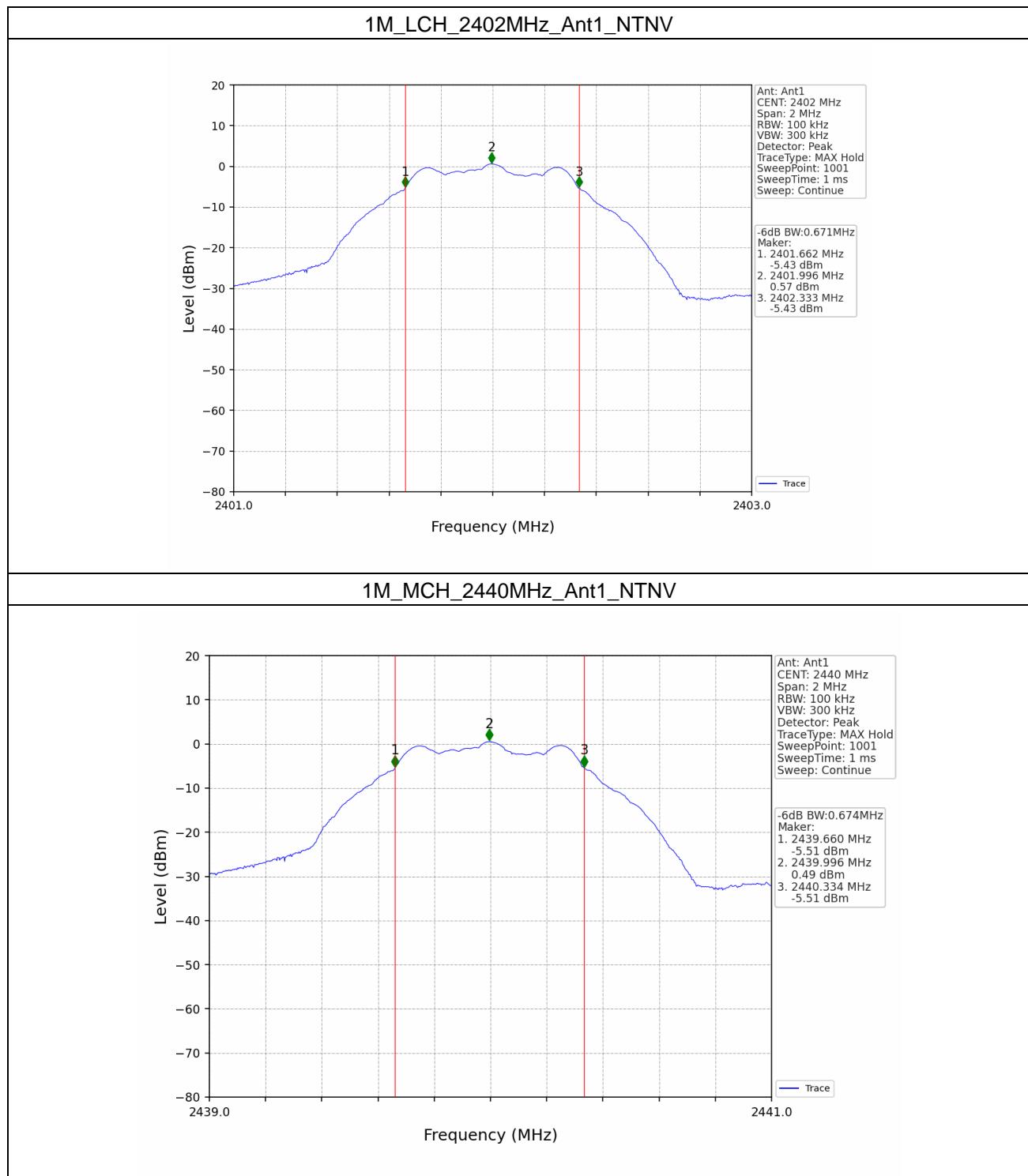
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### 2.2.2 Test Graph



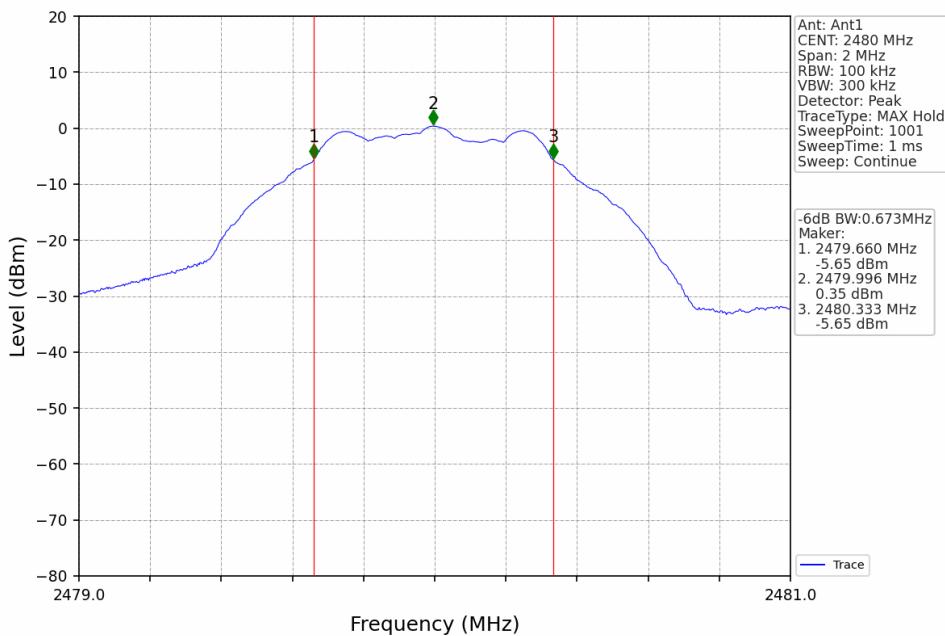
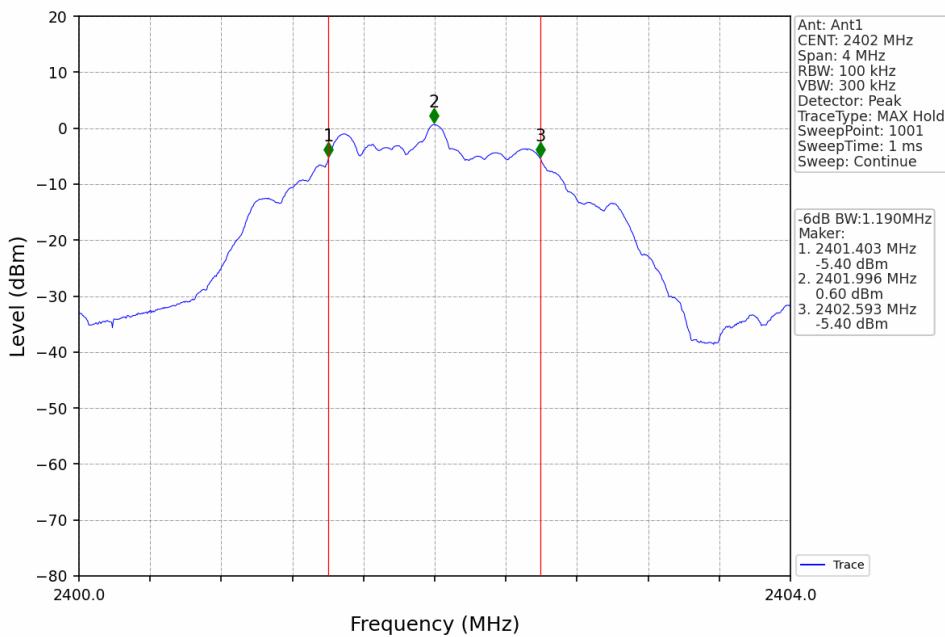
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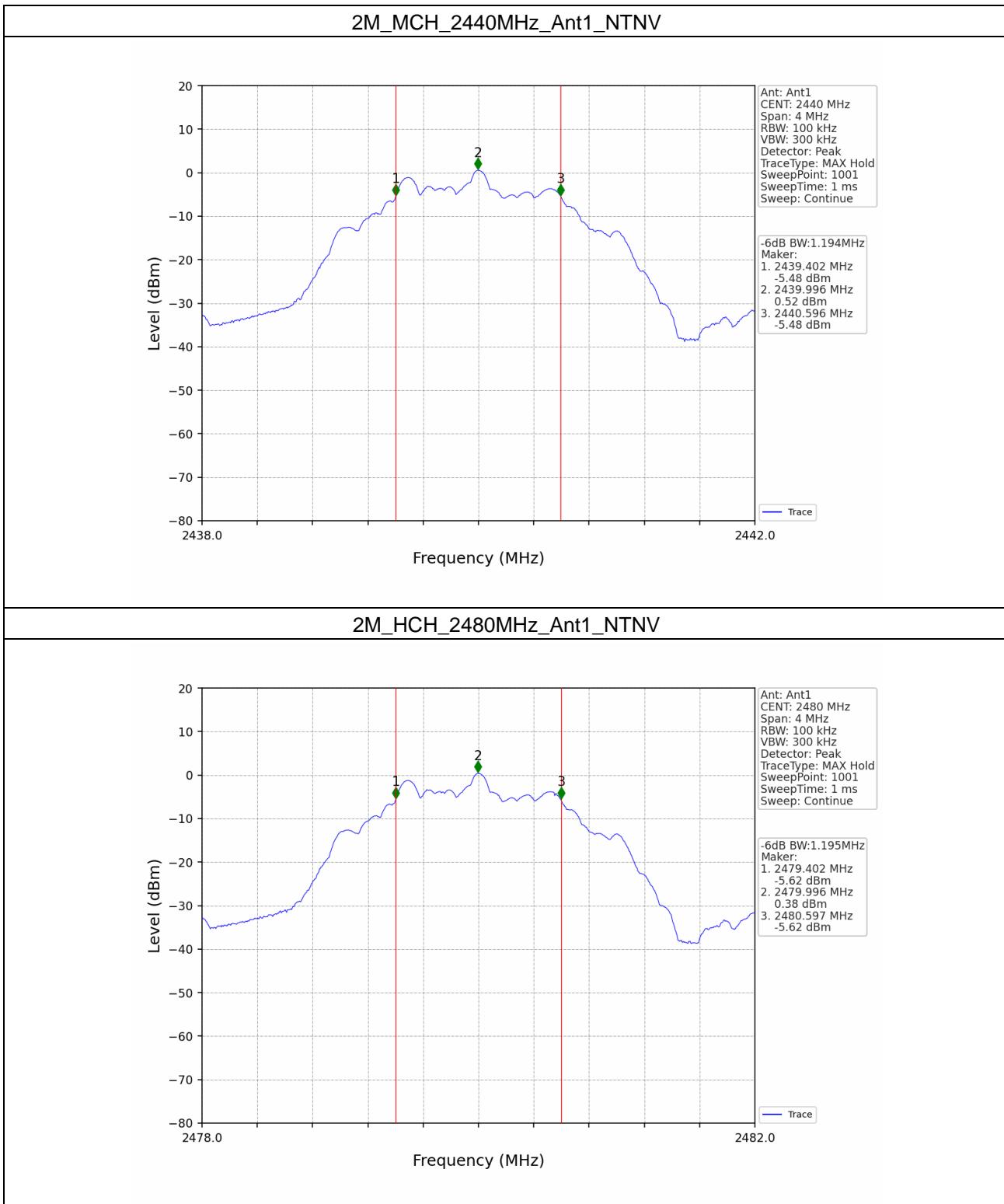
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**1M\_HCH\_2480MHz\_Ant1\_NTNV****2M\_LCH\_2402MHz\_Ant1\_NTNV**

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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	0.58	<=30	Pass
		2440	0.50	<=30	Pass
		2480	0.36	<=30	Pass
2M	SISO	2402	0.59	<=30	Pass
		2440	0.53	<=30	Pass
		2480	0.35	<=30	Pass



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-13.69	<=8	Pass
		2440	-13.73	<=8	Pass
		2480	-13.87	<=8	Pass
2M	SISO	2402	-14.05	<=8	Pass
		2440	-14.17	<=8	Pass
		2480	-14.32	<=8	Pass



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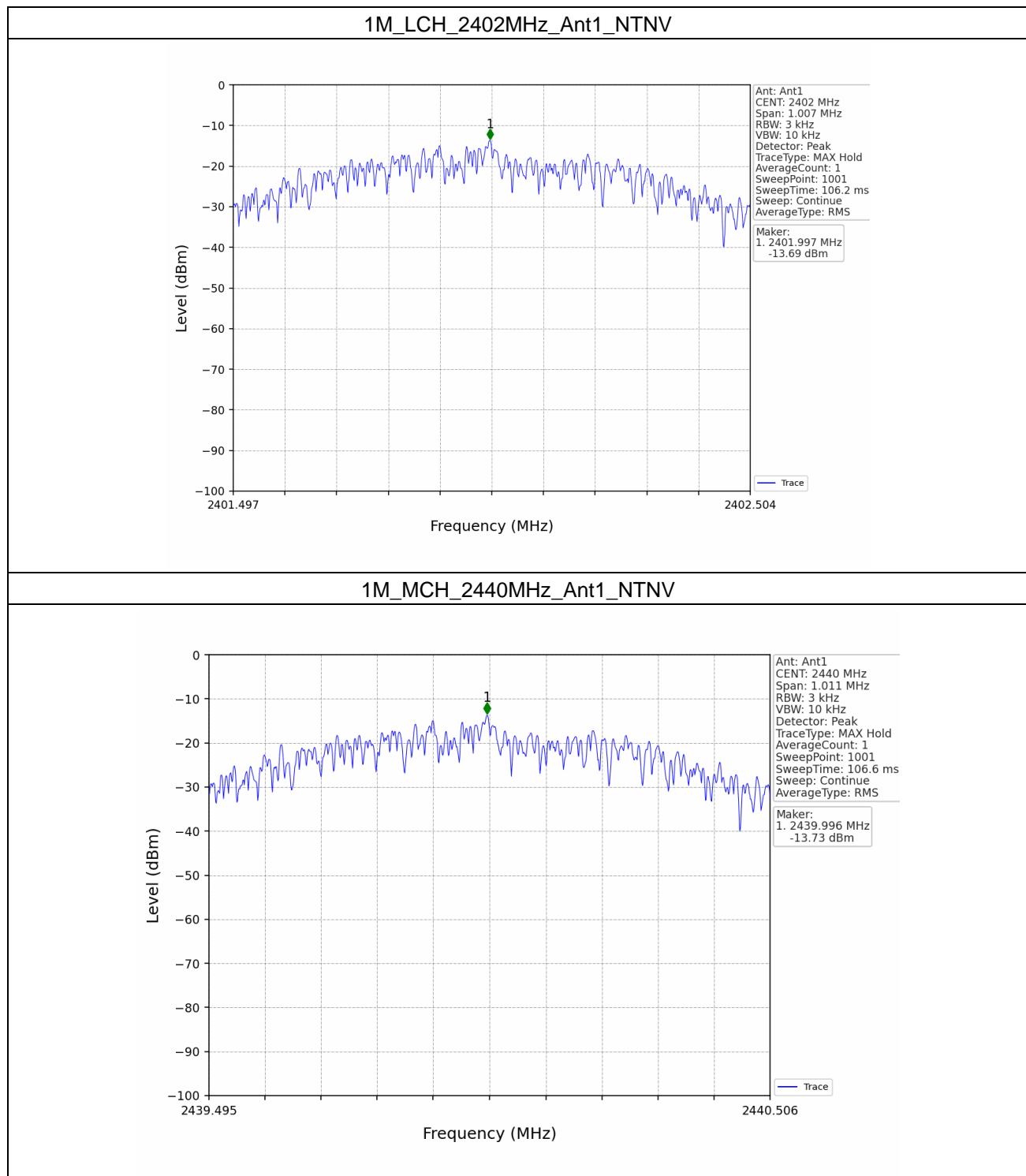
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#### 4.1.2 Test Graph



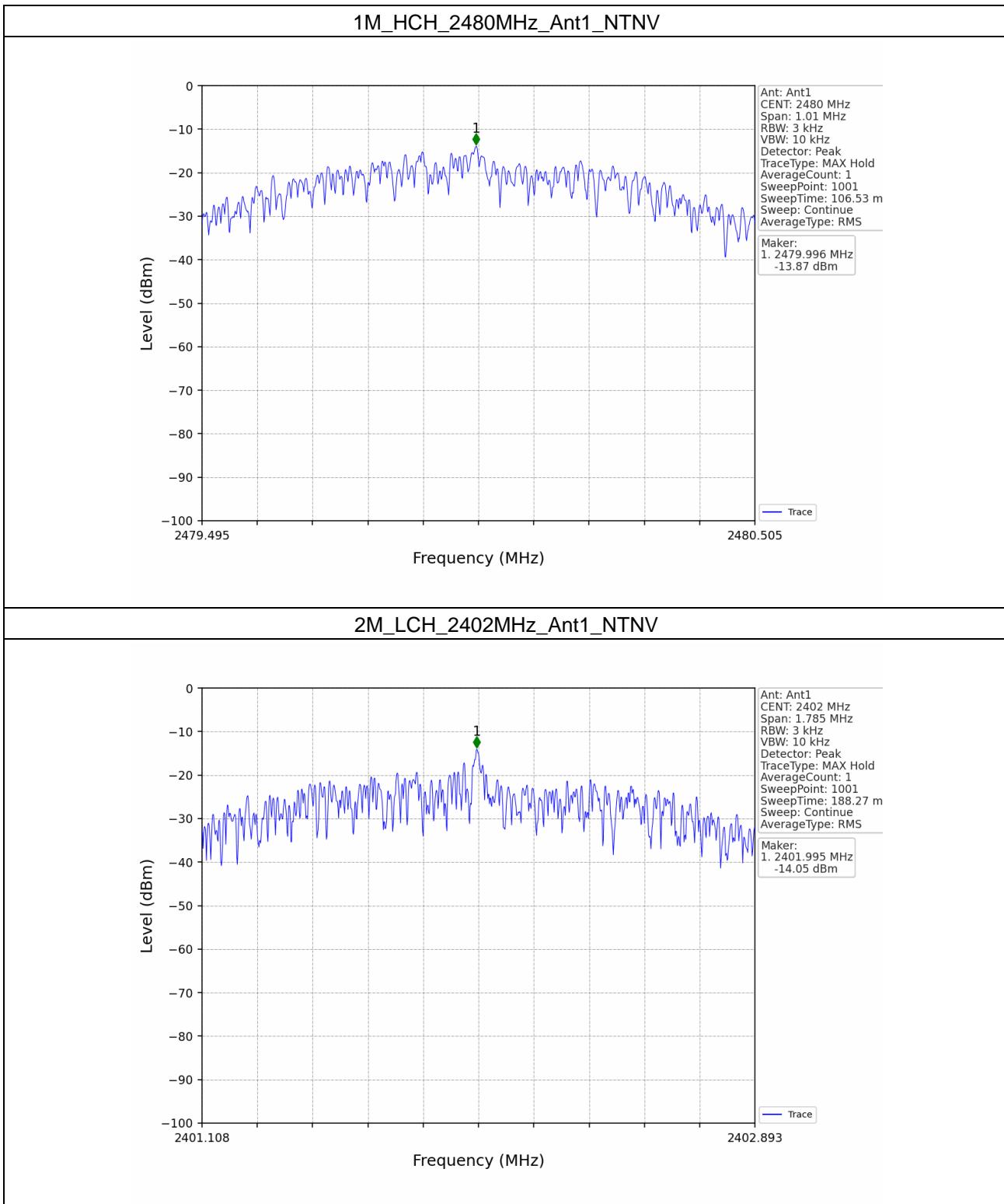
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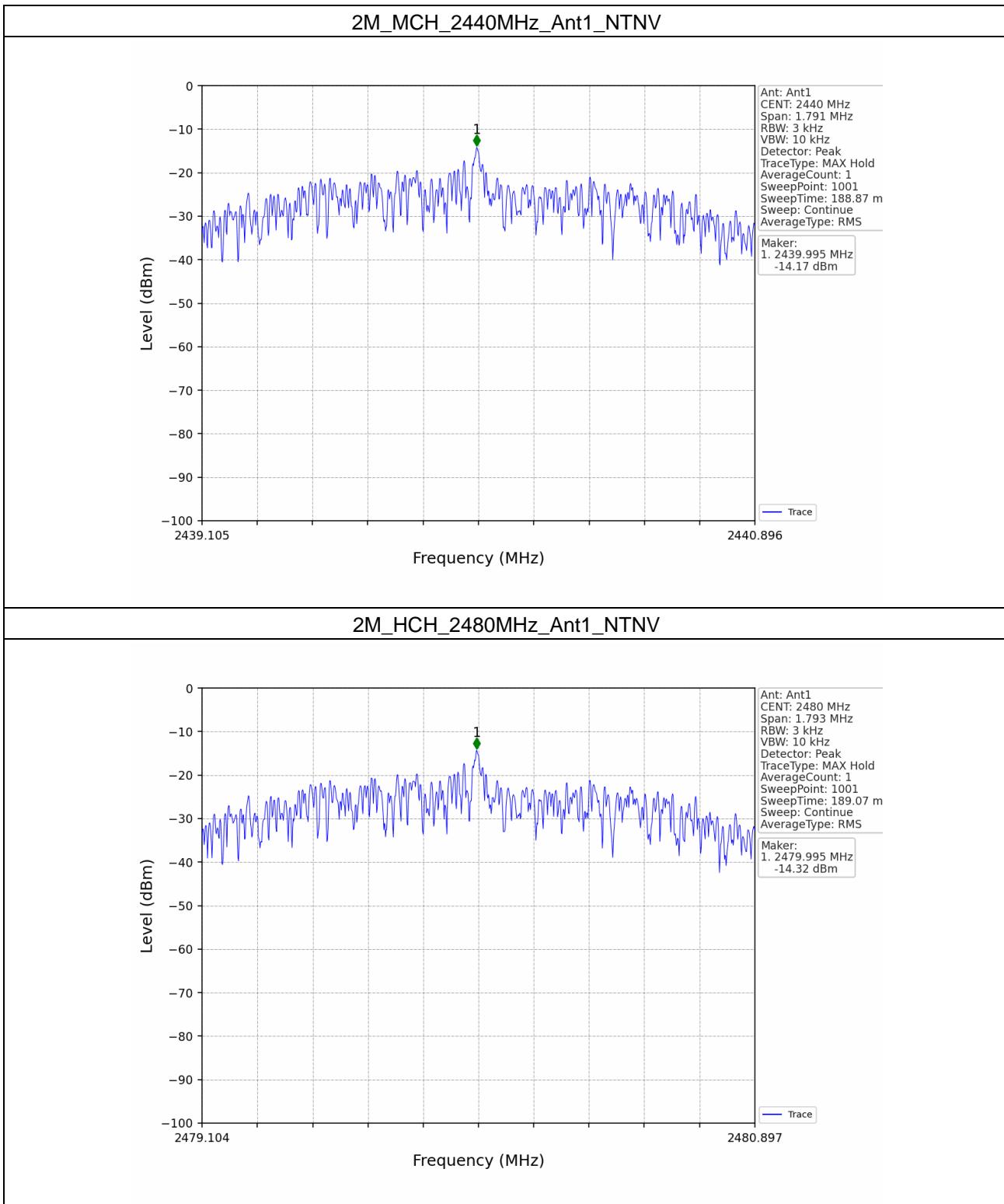
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.56
		2440	1	0.49
		2480	1	0.35
2M	SISO	2402	1	0.57
		2440	1	0.50
		2480	1	0.33



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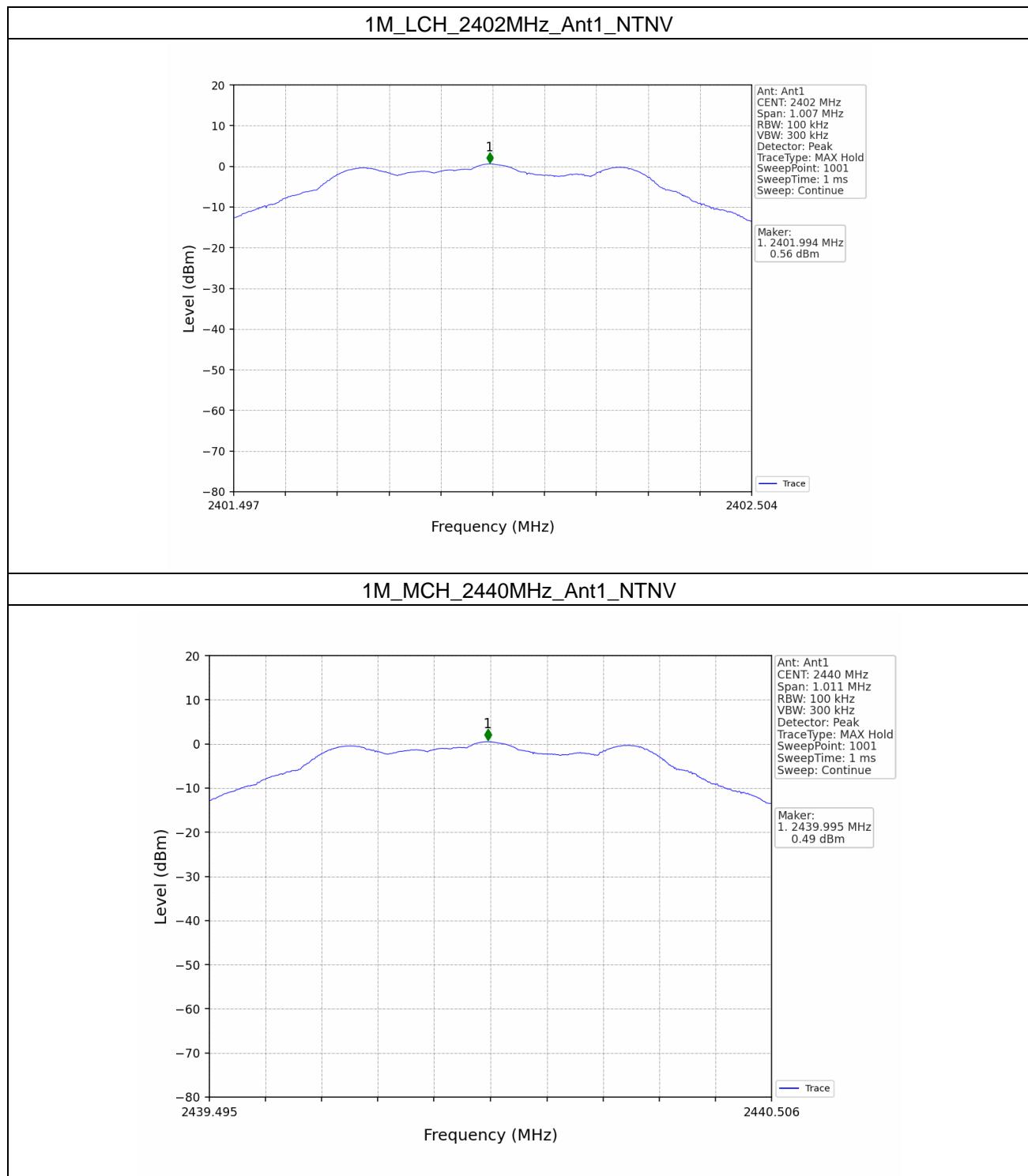
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### 5.1.2 Test Graph



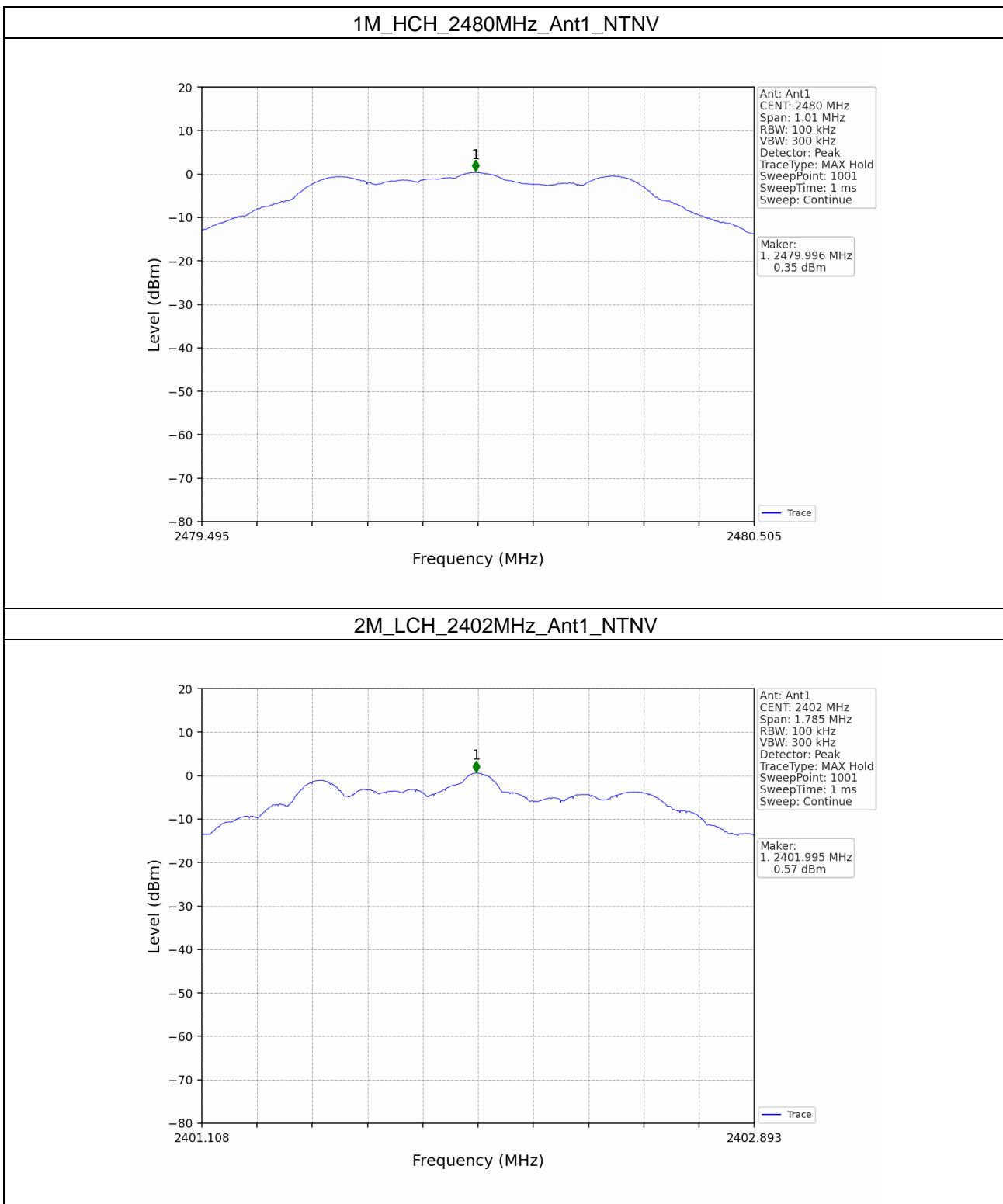
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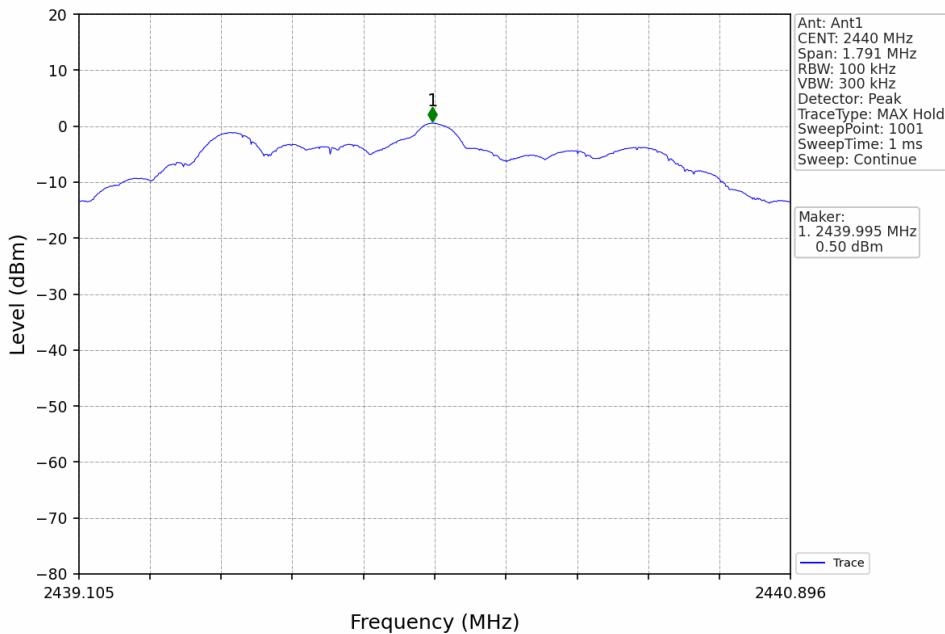
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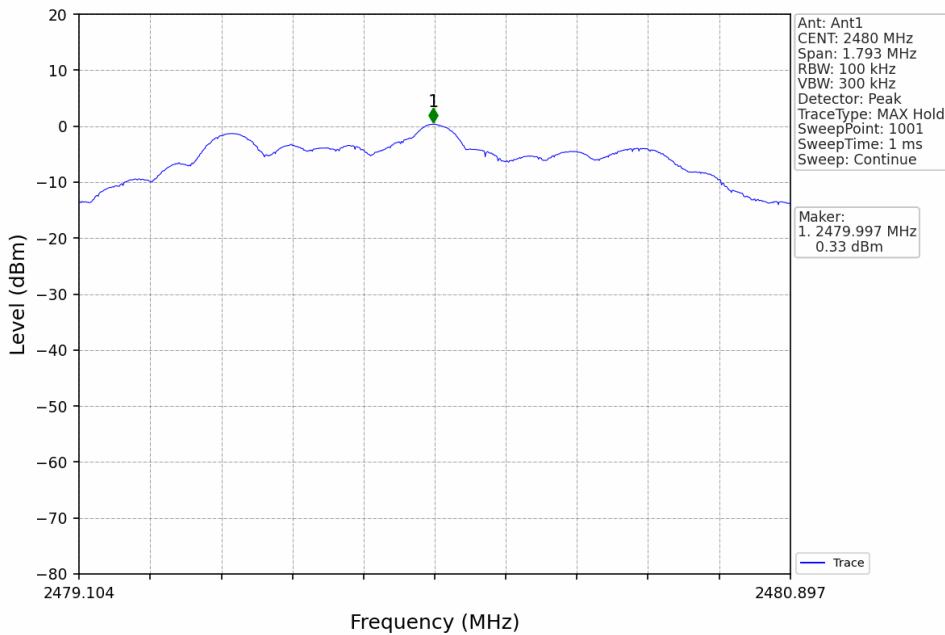
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### 2M\_MCH\_2440MHz\_Ant1\_NTNV



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



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## 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.56	-19.44	Pass
		2440	1	0.56	-19.44	Pass
		2480	1	0.56	-19.44	Pass
2M	SISO	2402	1	0.57	-19.43	Pass
		2440	1	0.57	-19.43	Pass
		2480	1	0.57	-19.43	Pass



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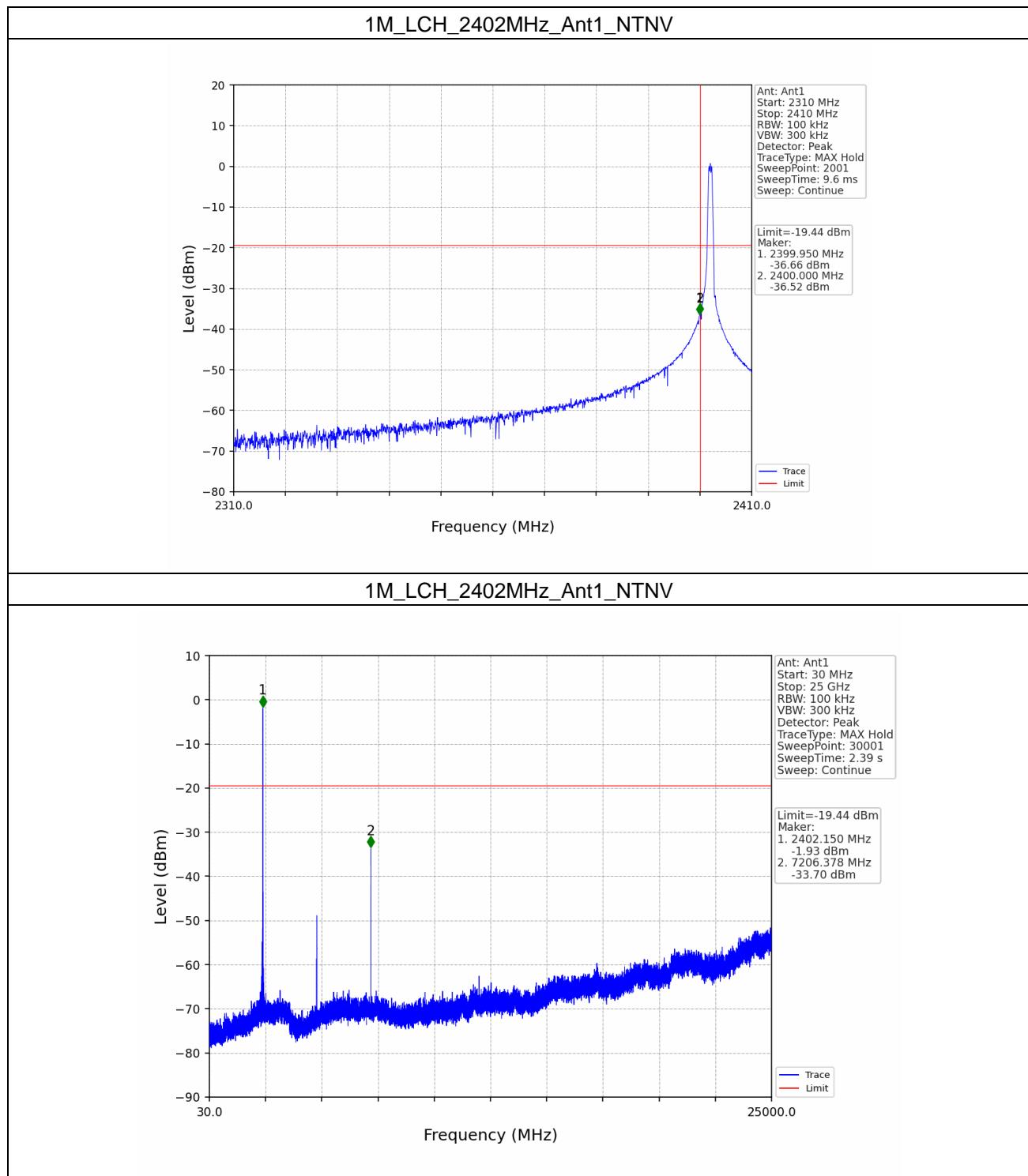
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### 5.2.2 Test Graph

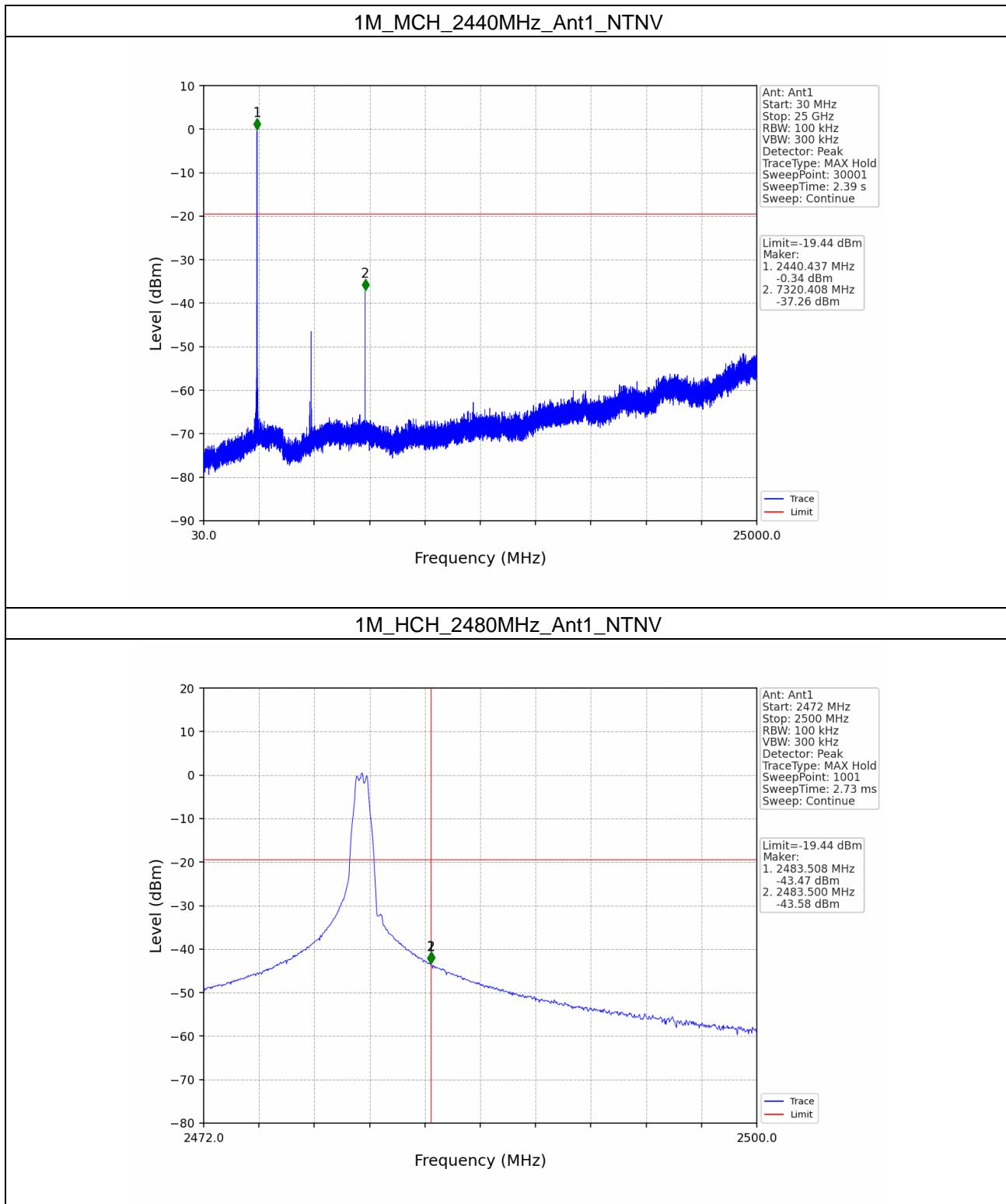


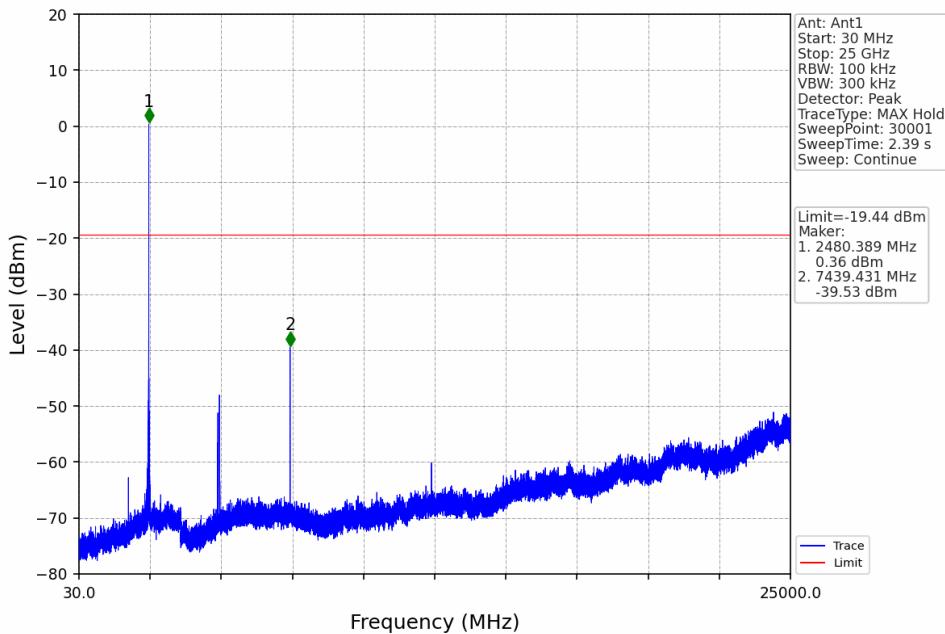
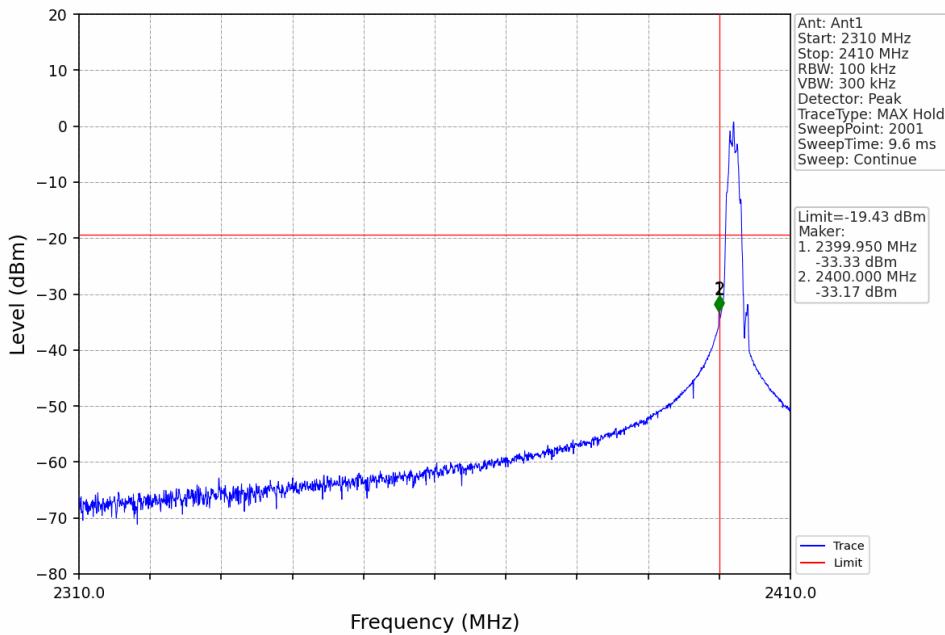
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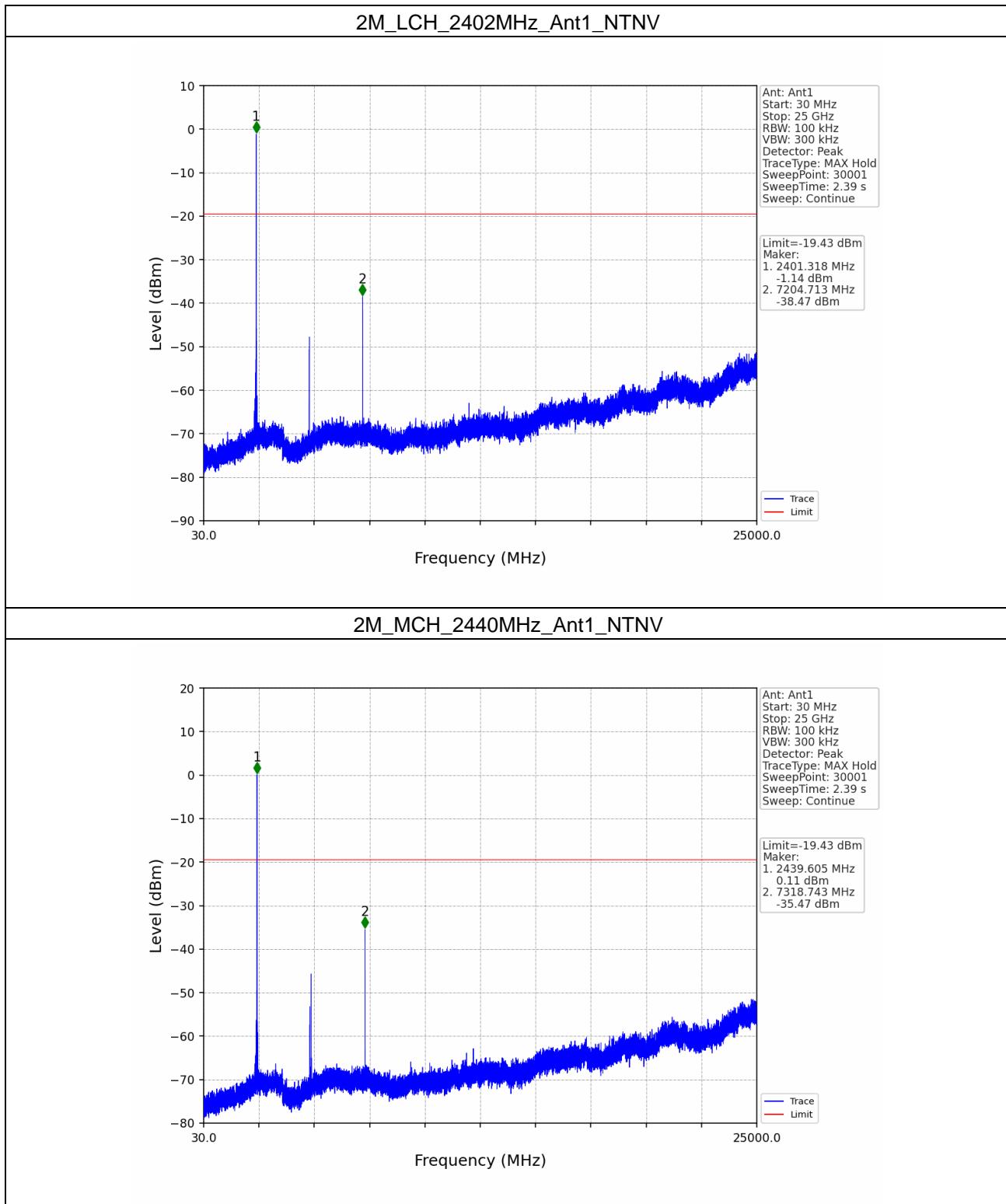
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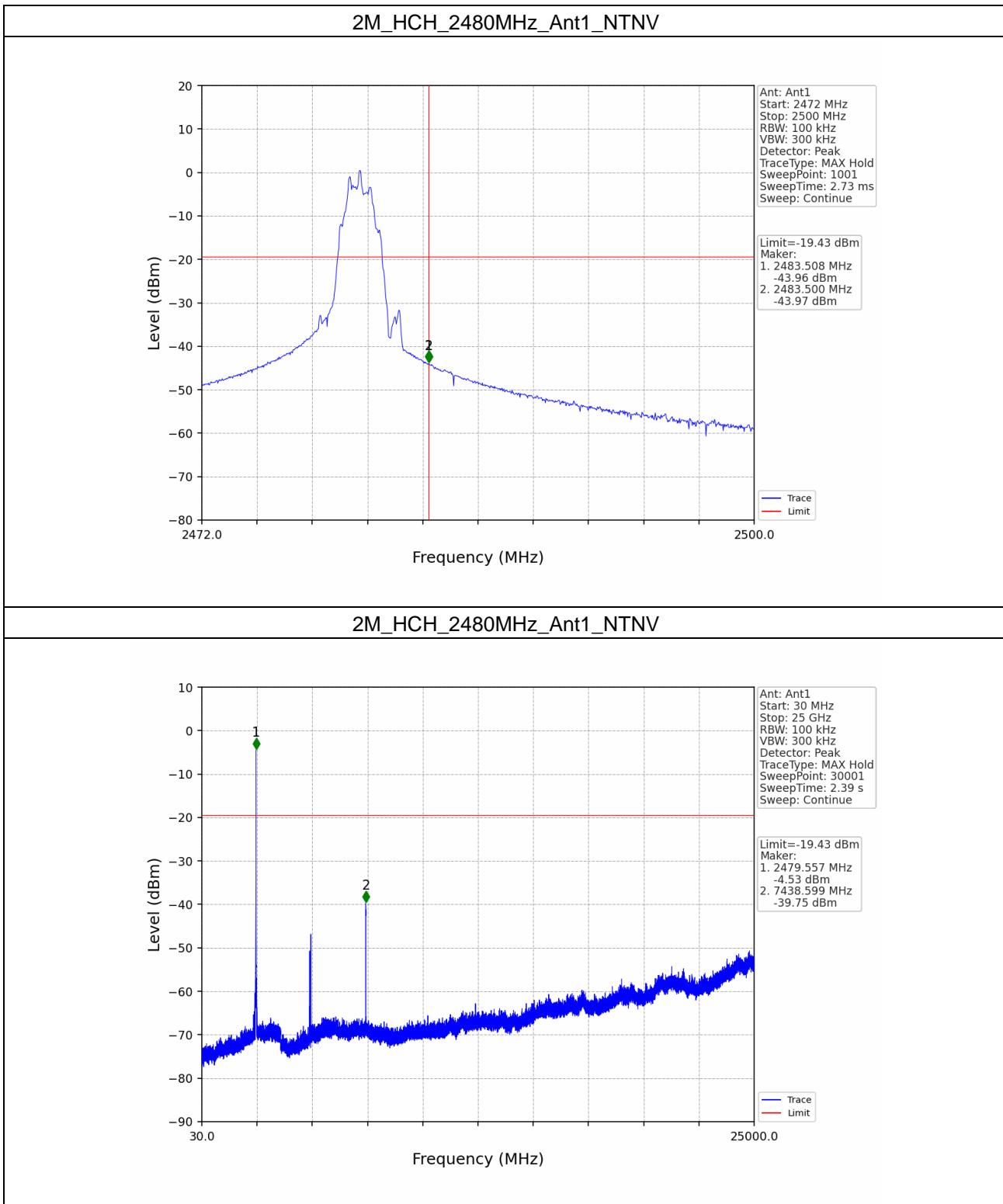


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