

# **TEST REPORT**

<b>Application No.:</b>	SHCR2504000871HS
<b>FCC ID</b>	ZT5-ORIGINAL2
<b>IC ID</b>	9798A-ORIGINAL2
<b>Applicant:</b>	Suzhou Armocon Technology Co.,Ltd.
<b>Address of Applicant:</b>	3-5/F No77 SuHong Middle Road SIP Jiangsu China
<b>Manufacturer:</b>	Suzhou Armocon Technology Co.,Ltd.
<b>Address of Manufacturer:</b>	3-5/F No77 SuHong Middle Road SIP Jiangsu China
<b>Factory:</b>	Suzhou Armocon Technology Co.,Ltd.
<b>Address of Factory:</b>	3-5/F No77 SuHong Middle Road SIP Jiangsu China
<b>Equipment Under Test (EUT):</b>	
<b>EUT Name:</b>	Handheld massager
<b>Model No.:</b>	MAHANA™ Originals, KALIA™ 2
<b>Remark:</b>	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
<b>Trade Mark:</b>	LELO, Intimina
<b>Standard(s) :</b>	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 3, August 2023 RSS-Gen Issue 5 Amendment 2 (February 2021)
<b>Date of Receipt:</b>	2025-04-14
<b>Date of Test:</b>	2025-04-16 to 2025-05-06
<b>Date of Issue:</b>	2025-05-07

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

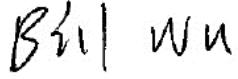
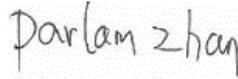
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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Member of the SGS Group (SGS SA)

Revision Record			
Version	Description	Date	Remark
00	Original	2025-05-07	/

Authorized for issue by:			
Tested By		 Bill Wu	
		Bill Wu/Project Engineer	
Approved By		 Parlam Zhan	
		Parlam Zhan / Reviewer	

## 2 Test Summary

<b>Radio Spectrum Technical Requirement</b>				
<b>Item</b>	<b>FCC Requirement</b>	<b>IC Requirement</b>	<b>Method</b>	<b>Result</b>
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

N/A: Not applicable

<b>Radio Spectrum Matter Part</b>				
<b>Item</b>	<b>FCC Requirement</b>	<b>IC Requirement</b>	<b>Method</b>	<b>Result</b>
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.1	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model MAHANA™ Originals was tested since their differences were the model number and appearance Color.

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## 4 General Information

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

Power supply:	DC 3.7V Rechargeable battery
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Multilayer Ceramic Antenna
Antenna Gain:	2 dBi (Provided by manufacturer)
S/N:	0235WasdA2311R
Firmware Version:	Mahana Originals F. REV.A

### 4.2 Power level setting using in test:

Channel	Power setting
0	-2.5
19	-2.5
39	-2.5

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-
Serial port adapter plate	-	Test Plate 3	-

### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$8.4 \times 10^{-8}$
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	5.2dB (Below 1GHz) 5.9dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz) 4.5dB (30MHz-1GHz) 5.1dB (1GHz-6GHz) 5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666      Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
3. Sample source: sent by customer.

#### 4.6 Test Facility

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

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None

## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
<b>RF Conducted Test</b>					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2024/12/18	2025-12-17
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2024/12/18	2025-12-17
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2025-04-30	2026-04-29
Signal Generator	R&S	SMR20	SHEM006-1	2024-07-31	2025-07-30
Signal Generator	Agilent	N5182A	SHEM182-1	2024-07-31	2025-07-30
Communication Tester	R&S	CMW270	SHEM183-1	2025-04-30	2026-04-29
Communication Tester	R&S	CMW500	SHEM268-1	2025-04-30	2026-04-29
Power Sensor	Keysight	U2021XA * 4	SHEM293-1	2024-07-31	2025-07-30
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2024-11-05	2026-11-04
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2024/12/18	2025-12-17
DC Power Supply	HP	6010A	SHEM222-1	2024/12/18	2025-12-17
Conducted test Cable	/	RF01~RF04	/	2024/12/18	2025-12-17
Switcher	Tonscend	JS0806	SHEM293-1	2024-07-31	2025-07-30
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Switcher+Power Sensor	TST	TSPS2023R	SHEM263-1	2024-07-31	2025-07-30
Test software	TST	TST PASS	Version: 2.0	/	/
<b>RF Radiated Test</b>					
EMI test Receiver	R&S	ESU40	SHEM051-1	2024/12/18	2025-12-17
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2024/12/18	2025-12-17
Communication Tester	R&S	CMW500	SHEM268-1	2025-04-30	2026-04-29
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2024/12/18	2025-12-17
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2023-09-03	2025-09-02
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2025-04-12	2027-04-11
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2024-08-05	2026-08-04
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2023-09-03	2025-09-02
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2023-09-03	2025-09-02
Pre-Amplifier	HP	8447D	SHEM236-1	2024/12/18	2025-12-17
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2024/12/18	2025-12-17
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023-05-06	2026-05-05
RE test Cable	/	PT18-NMNM-10M	SHEM217-2	2024/12/18	2025-12-17
Test software	ESE	E3	Version: 6.111221a	/	/

## 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 Multilayer Ceramic Antenna and no consideration of replacement. The best case gain of the antenna is 2 dBi.

Antenna location: Refer to internal photo.

## 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 & 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

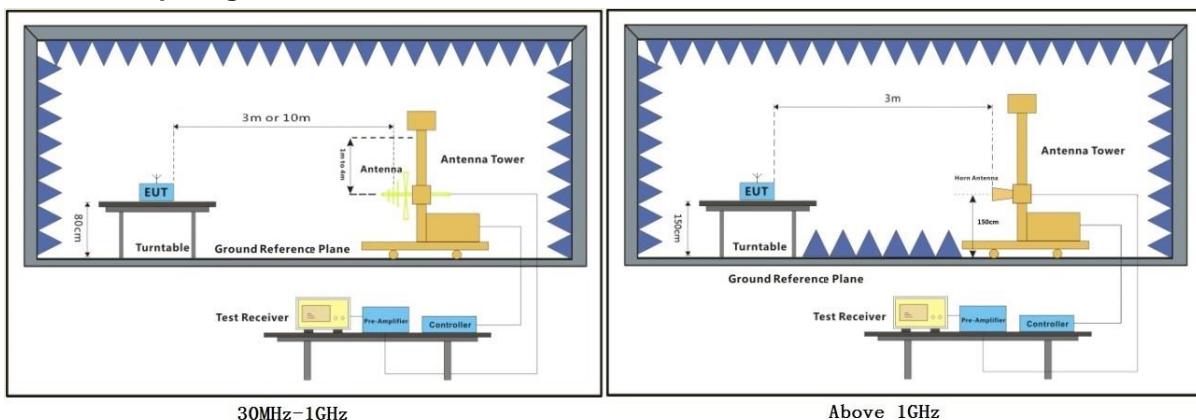
Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

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

### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

- 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 middle 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.

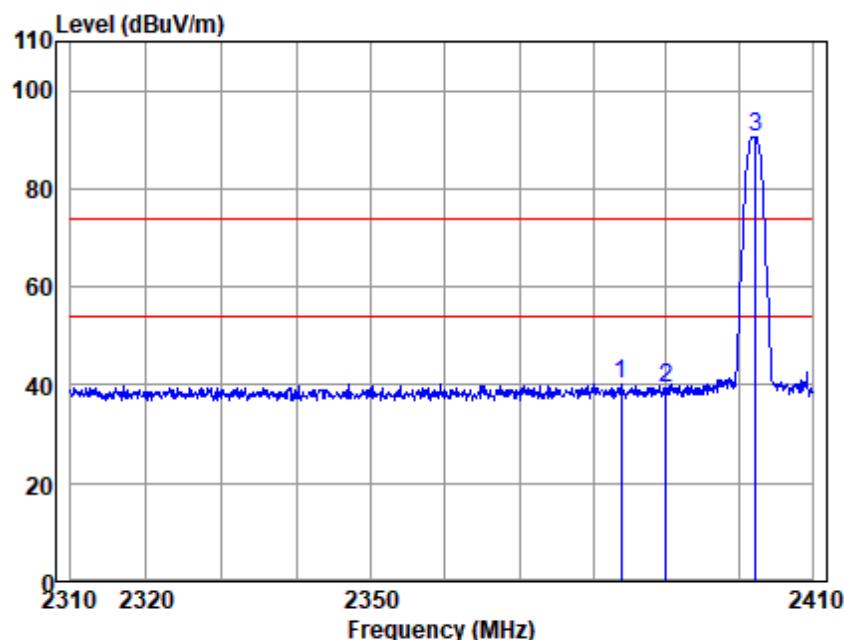
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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  $\leq 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.

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

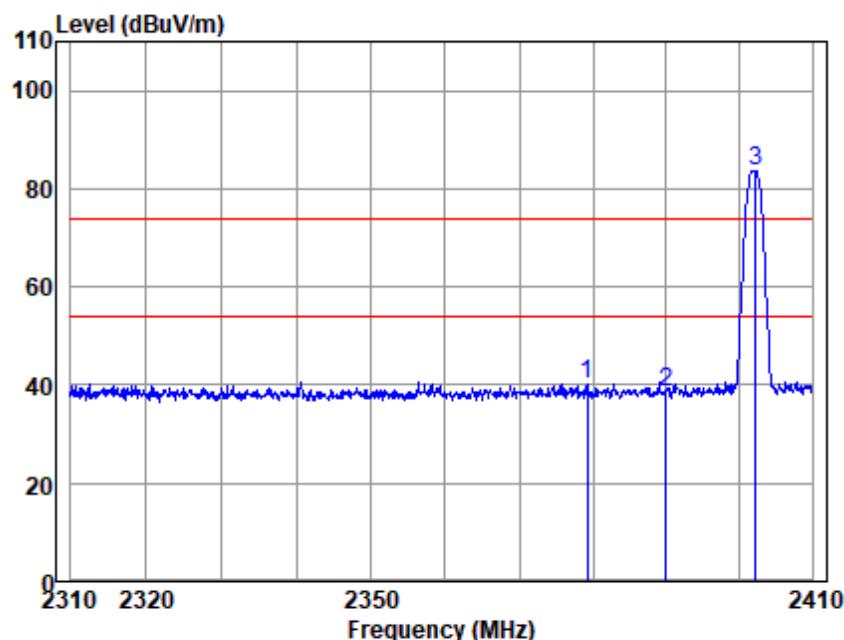


Antenna Polarity :HORIZONTAL  
EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2383.793	43.42	28.80	3.33	35.18	40.37	74.00	-33.63	Peak
2390.000	42.27	28.80	3.33	35.18	39.22	74.00	-34.78	Peak
2402.250	93.56	28.85	3.34	35.19	90.56	74.00	16.56	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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

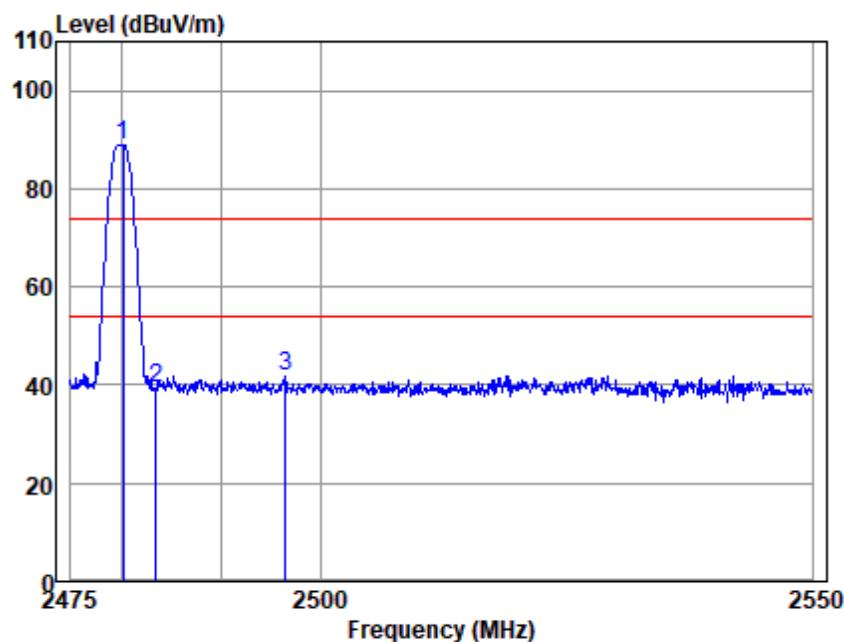


Antenna Polarity :VERTICAL  
EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2379.251	43.17	28.76	3.32	35.17	40.08	74.00	-33.92	Peak
2390.000	41.66	28.80	3.33	35.18	38.61	74.00	-35.39	Peak
2402.250	86.67	28.85	3.34	35.19	83.67	74.00	9.67	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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

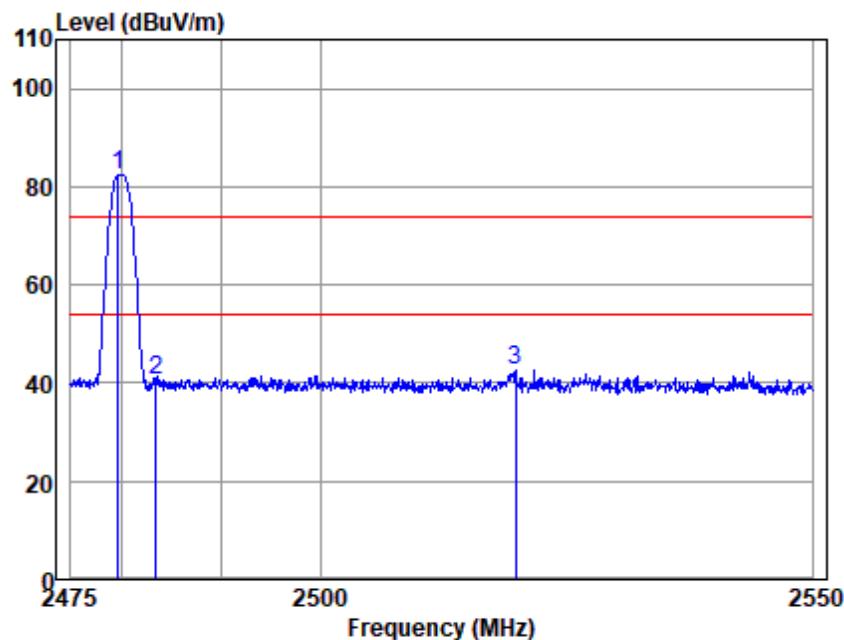


Antenna Polarity :HORIZONTAL  
EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.251	91.80	29.08	3.40	35.25	89.03	74.00	15.03	Peak
2483.500	42.04	29.09	3.41	35.26	39.28	74.00	-34.72	Peak
2496.520	44.69	29.12	3.42	35.27	41.96	74.00	-32.04	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

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

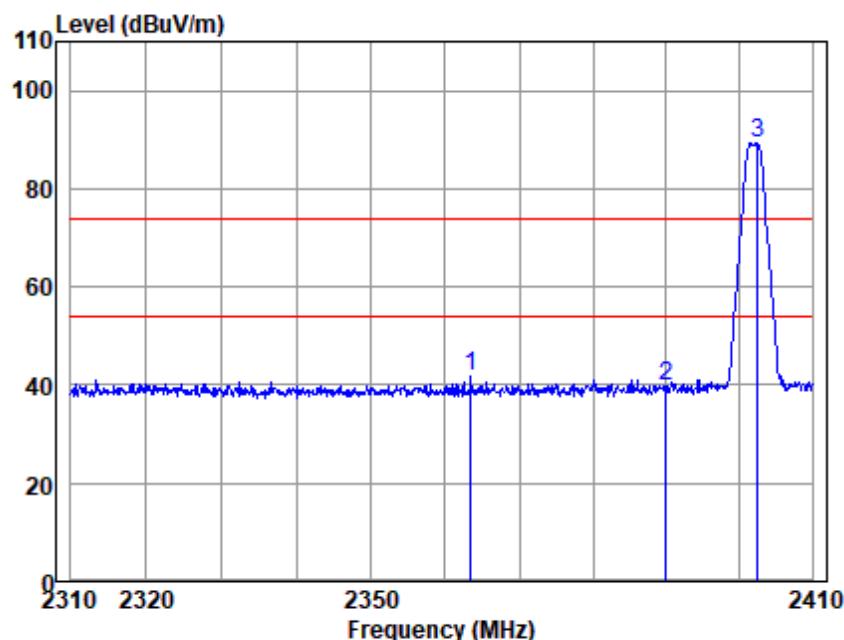


Antenna Polarity : VERTICAL  
EUT/Project : 0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.733	85.18	29.08	3.40	35.25	82.41	74.00	8.41	Peak
2483.500	43.53	29.09	3.41	35.26	40.77	74.00	-33.23	Peak
2519.731	45.43	29.13	3.44	35.30	42.70	74.00	-31.30	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

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

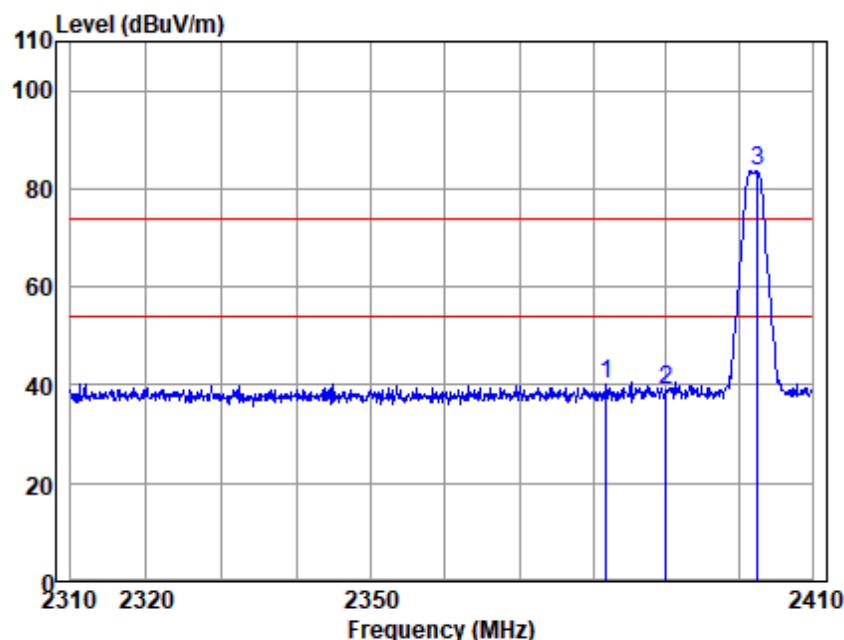


Antenna Polarity :HORIZONTAL  
EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2363.473	44.78	28.68	3.31	35.16	41.61	74.00	-32.39	Peak
2390.000	42.75	28.80	3.33	35.18	39.70	74.00	-34.30	Peak
2402.454	92.32	28.85	3.34	35.19	89.32	74.00	15.32	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

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



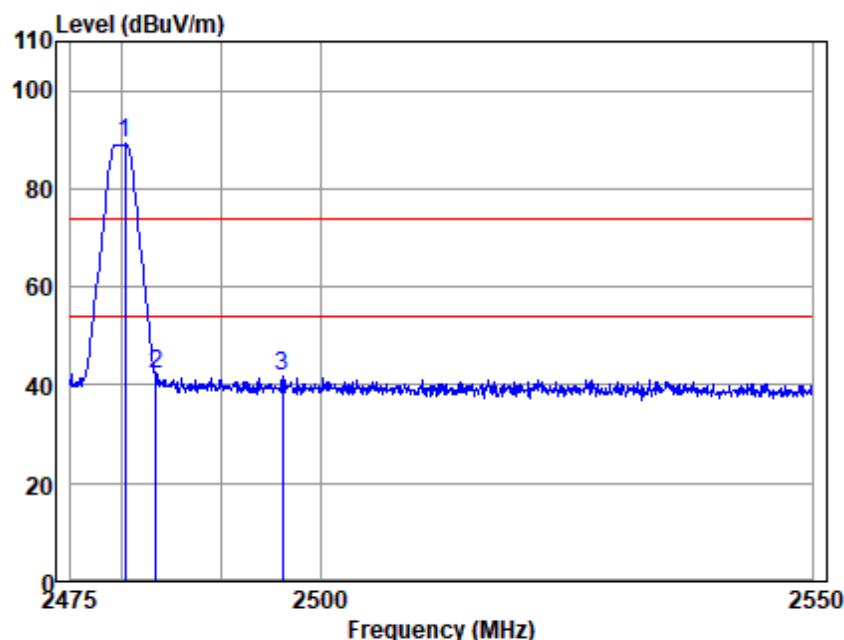
Antenna Polarity : VERTICAL

EUT/Project : 0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2381.773	43.09	28.76	3.32	35.17	40.00	74.00	-34.00	Peak
2390.000	42.21	28.80	3.33	35.18	39.16	74.00	-34.84	Peak
2402.454	86.57	28.85	3.34	35.19	83.57	74.00	9.57	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

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

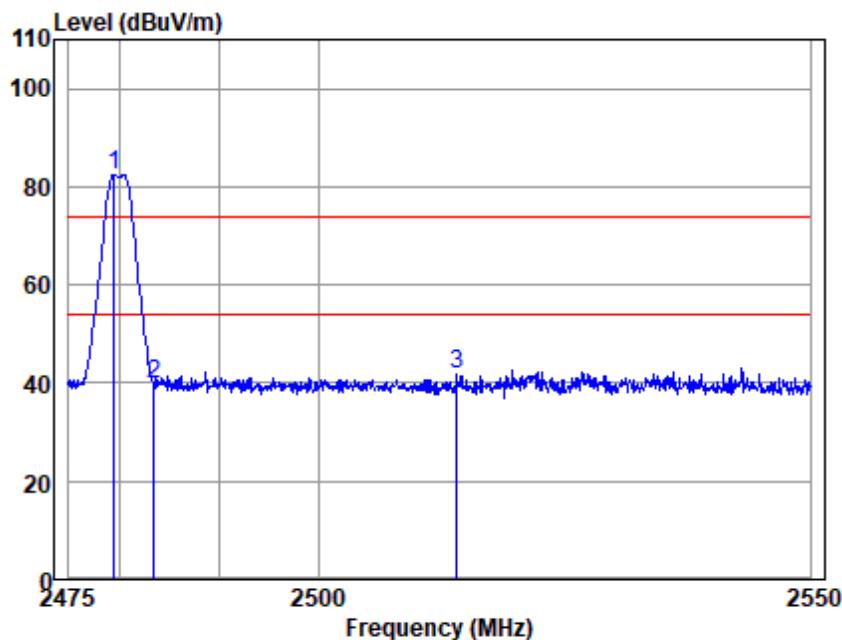


Antenna Polarity :HORIZONTAL  
EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.474	91.95	29.08	3.40	35.25	89.18	74.00	15.18	Peak
2483.500	45.02	29.09	3.41	35.26	42.26	74.00	-31.74	Peak
2496.222	44.46	29.10	3.41	35.26	41.71	74.00	-32.29	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity :VERTICAL  
EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.511	85.26	29.08	3.40	35.25	82.49	74.00	8.49	Peak
2483.500	42.73	29.09	3.41	35.26	39.97	74.00	-34.03	Peak
2514.021	44.36	29.13	3.43	35.29	41.63	74.00	-32.37	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

## 7.2 Radiated Spurious Emissions Below 1GHz

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

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

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: 22 °C

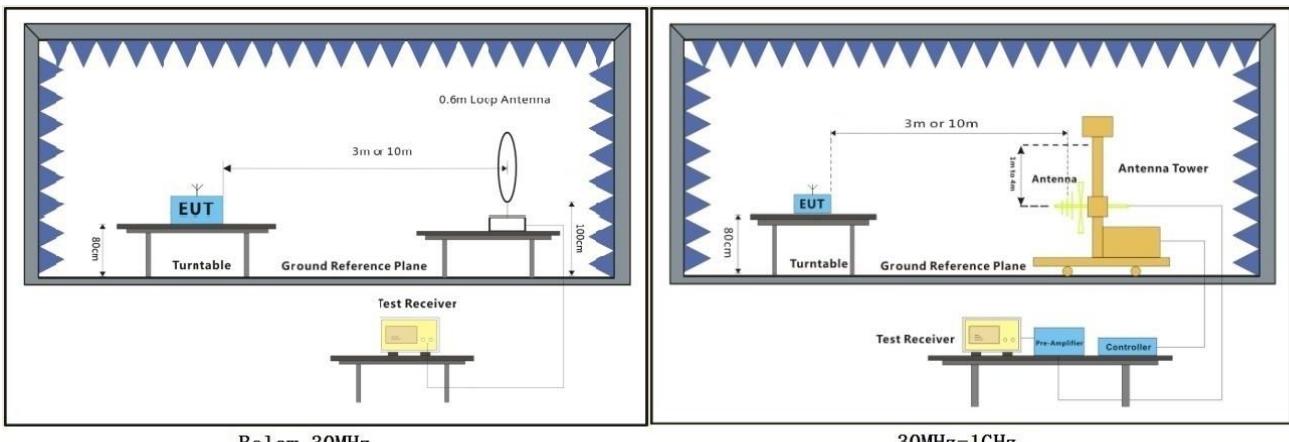
Humidity: 50 % RH

Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

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

### 7.2.3 Test Setup Diagram



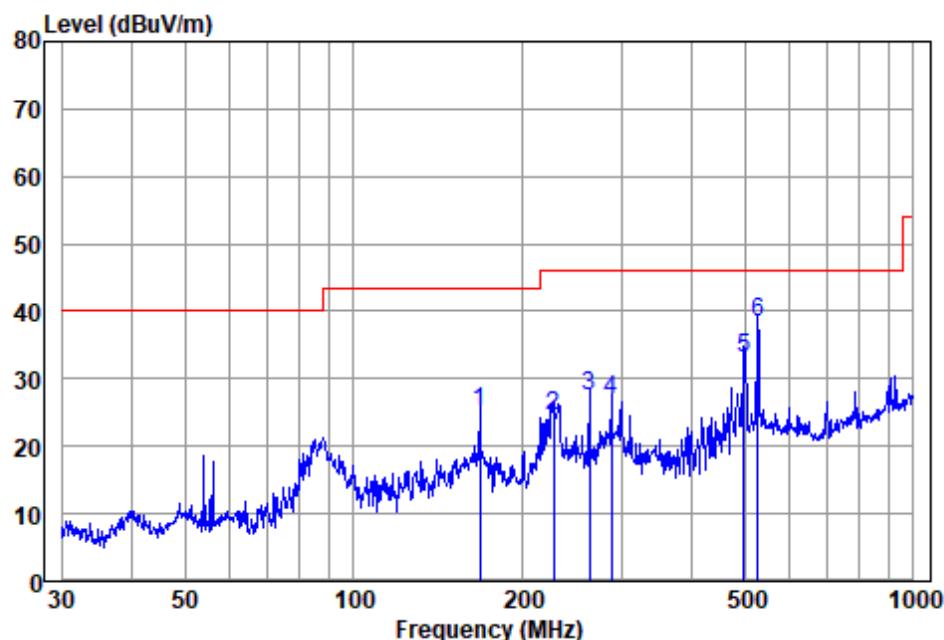
**7.2.4 Measurement Procedure and Data**

- 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



Antenna Polarity :HORIZONTAL

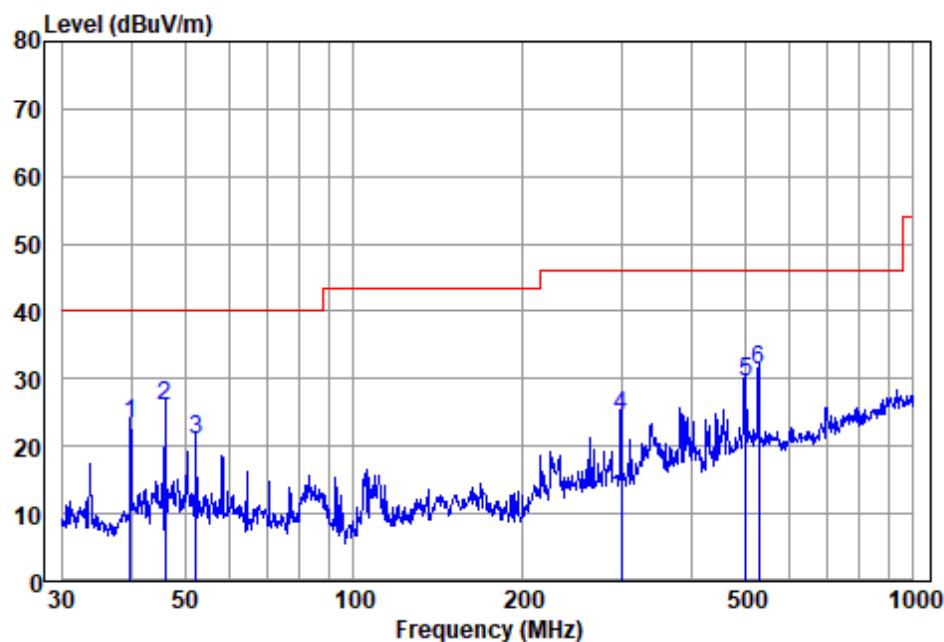
EUT/Project :0871HS

Test mode :00

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	167.824	42.29	12.90	2.86	33.00	25.05	43.50	-18.45	QP
2	227.691	44.15	10.05	3.20	32.88	24.52	46.00	-21.48	QP
3	263.819	44.55	12.11	3.60	32.83	27.43	46.00	-18.57	QP
4	287.990	43.06	13.04	3.55	32.88	26.77	46.00	-19.23	QP
5	497.677	42.85	17.96	4.95	32.80	32.96	46.00	-13.04	QP
6	526.397	47.65	18.42	5.10	32.75	38.42	46.00	-7.58	QP

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

Test Mode: 00; Polarity: Vertical



Antenna Polarity : VERTICAL

EUT/Project : 0871HS

Test mode : 00

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.854	41.67	13.40	1.37	33.20	23.24	40.00	-16.76 QP
2	46.016	43.86	13.80	1.40	33.20	25.86	40.00	-14.14 QP
3	52.208	38.77	13.90	1.49	33.20	20.96	40.00	-19.04 QP
4	300.367	40.15	13.40	3.84	32.90	24.49	46.00	-21.51 QP
5	501.179	39.26	18.02	4.97	32.80	29.45	46.00	-16.55 QP
6	528.246	40.35	18.46	5.11	32.74	31.18	46.00	-14.82 QP

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

### 7.3 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

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

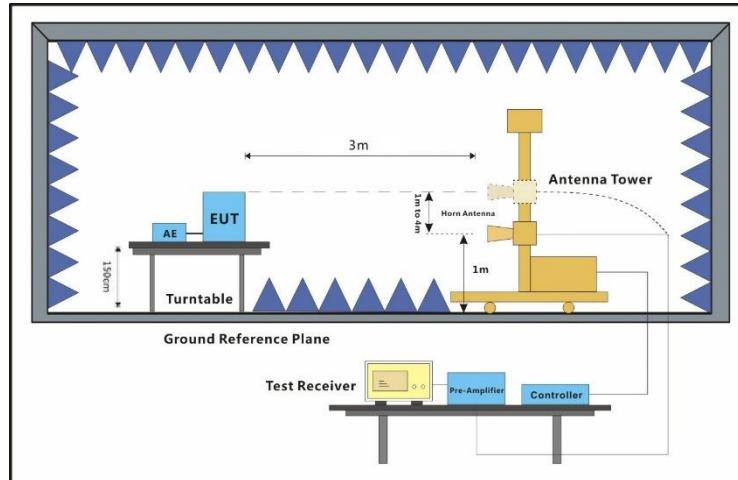
Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

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

#### 7.3.3 Test Setup Diagram



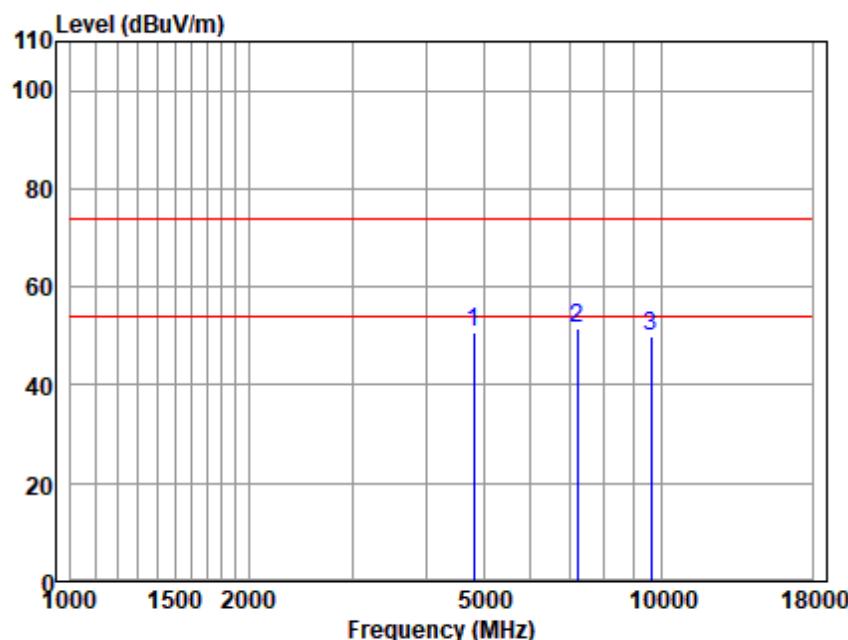
**7.3.4 Measurement Procedure and Data**

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.

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



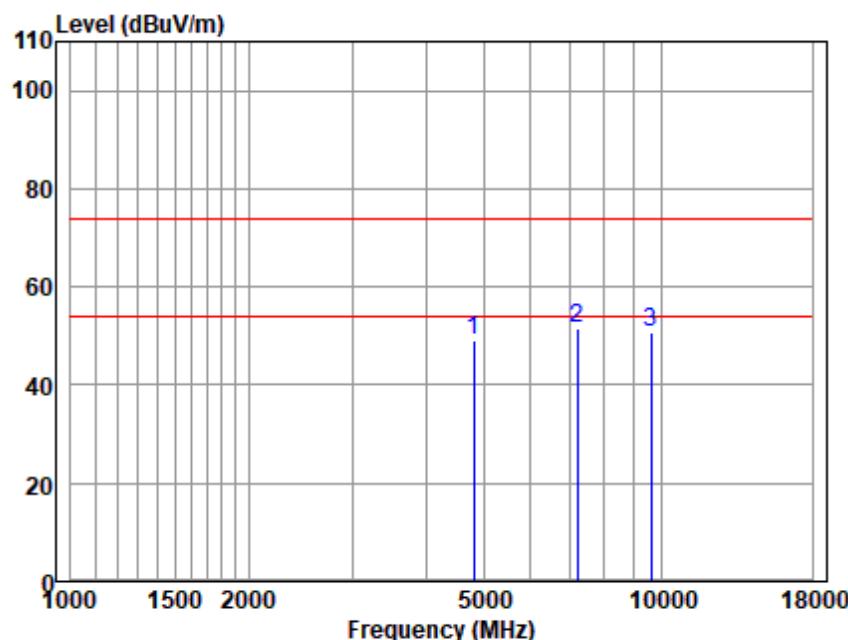
Antenna Polarity :HORIZONTAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	48.66	33.57	5.23	36.79	50.67	74.00	-23.33	Peak
7200.309	43.54	36.24	7.33	35.53	51.58	74.00	-22.42	Peak
9613.430	37.01	37.75	8.74	33.58	49.92	74.00	-24.08	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

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



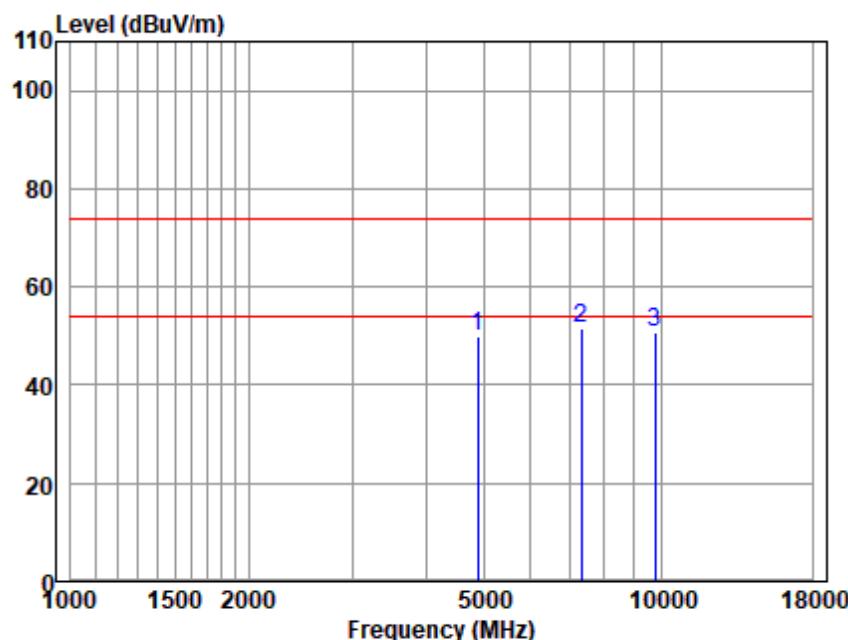
Antenna Polarity :VERTICAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	47.09	33.57	5.23	36.79	49.10	74.00	-24.90	Peak
7200.309	43.40	36.24	7.33	35.53	51.44	74.00	-22.56	Peak
9613.430	37.76	37.75	8.74	33.58	50.67	74.00	-23.33	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



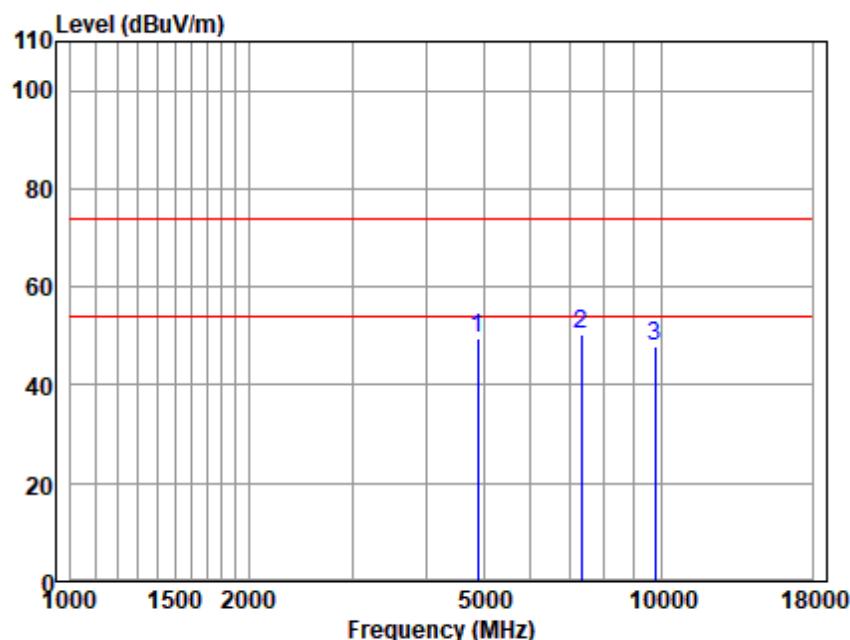
Antenna Polarity :HORIZONTAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	47.69	33.66	5.28	36.81	49.82	74.00	-24.18	Peak
7326.267	43.20	36.33	7.44	35.42	51.55	74.00	-22.45	Peak
9753.371	37.87	37.54	8.80	33.50	50.71	74.00	-23.29	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



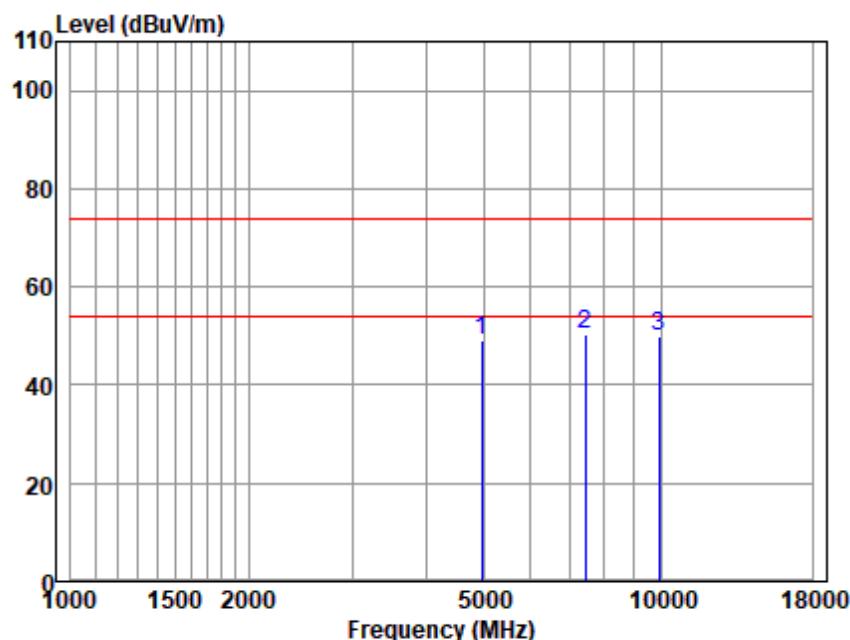
Antenna Polarity : VERTICAL

EUT/Project : 0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	47.58	33.66	5.28	36.81	49.71	74.00	-24.29	Peak
7326.267	41.83	36.33	7.44	35.42	50.18	74.00	-23.82	Peak
9753.371	35.19	37.54	8.80	33.50	48.03	74.00	-25.97	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

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



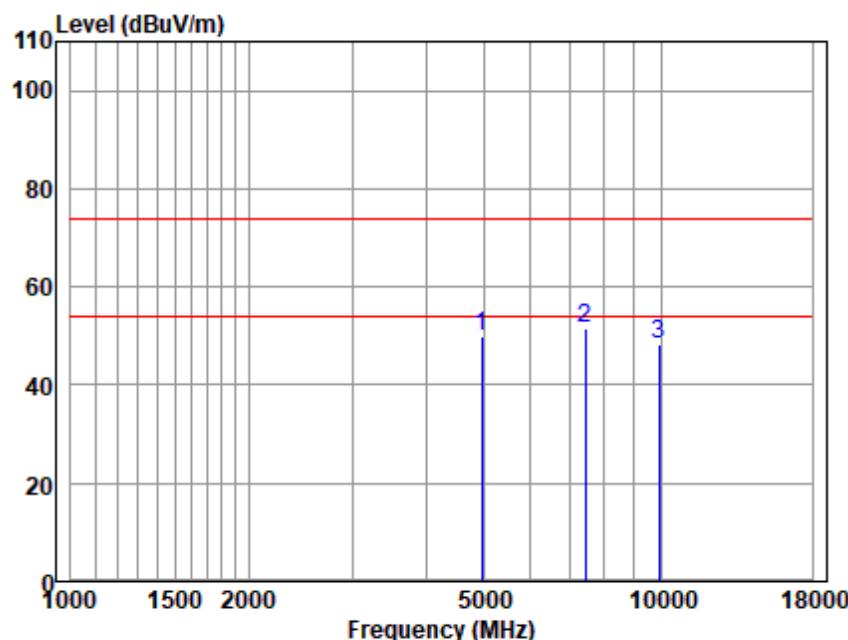
Antenna Polarity :HORIZONTAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	46.87	33.65	5.34	36.83	49.03	74.00	-24.97	Peak
7432.914	41.92	36.31	7.53	35.34	50.42	74.00	-23.58	Peak
9923.991	36.77	37.62	8.88	33.41	49.86	74.00	-24.14	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



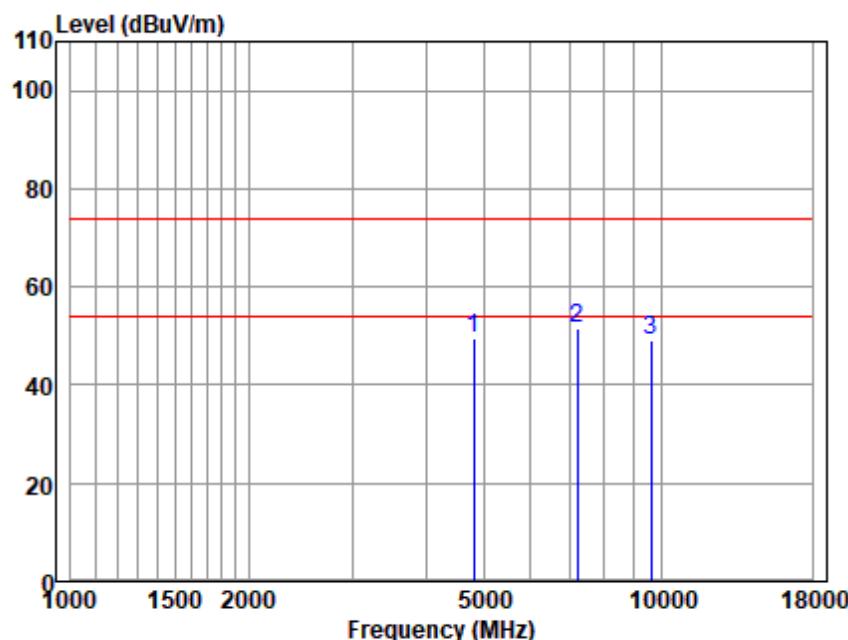
Antenna Polarity :VERTICAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	47.75	33.65	5.34	36.83	49.91	74.00	-24.09	Peak
7432.914	42.98	36.31	7.53	35.34	51.48	74.00	-22.52	Peak
9923.991	35.16	37.62	8.88	33.41	48.25	74.00	-25.75	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



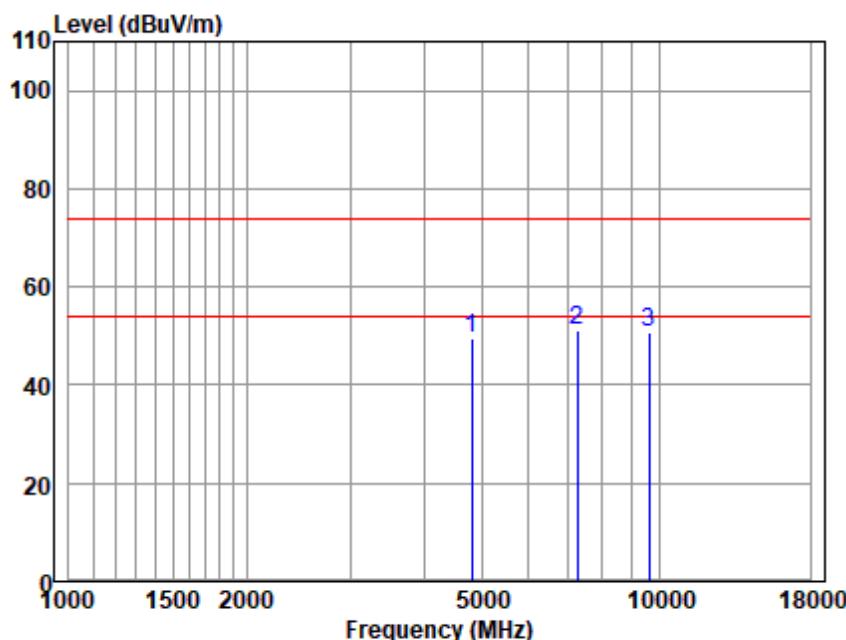
Antenna Polarity :HORIZONTAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	47.47	33.57	5.23	36.79	49.48	74.00	-24.52	Peak
7200.309	43.50	36.24	7.33	35.53	51.54	74.00	-22.46	Peak
9613.430	36.08	37.75	8.74	33.58	48.99	74.00	-25.01	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



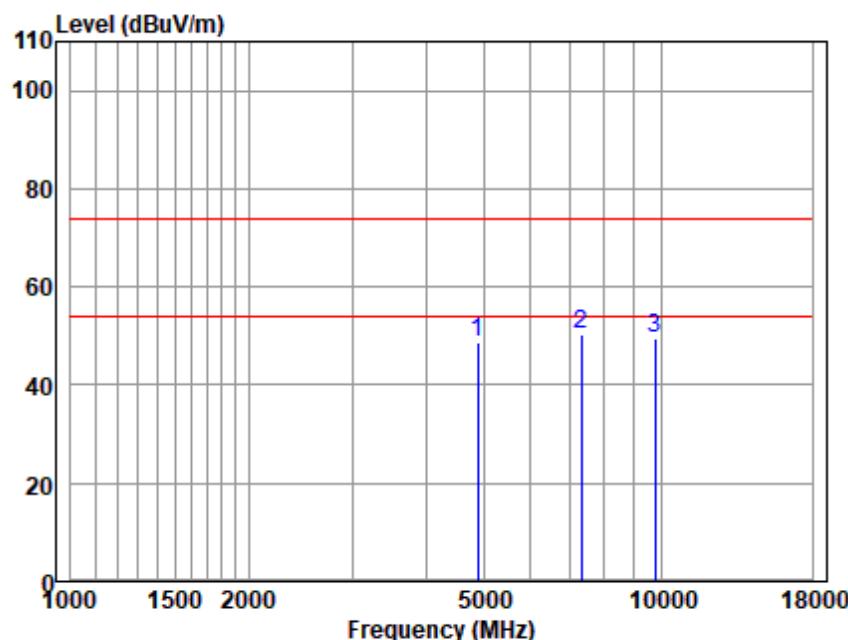
Antenna Polarity :VERTICAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	47.71	33.57	5.23	36.79	49.72	74.00	-24.28	Peak
7263.015	42.99	36.30	7.38	35.48	51.19	74.00	-22.81	Peak
9613.430	38.02	37.75	8.74	33.58	50.93	74.00	-23.07	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



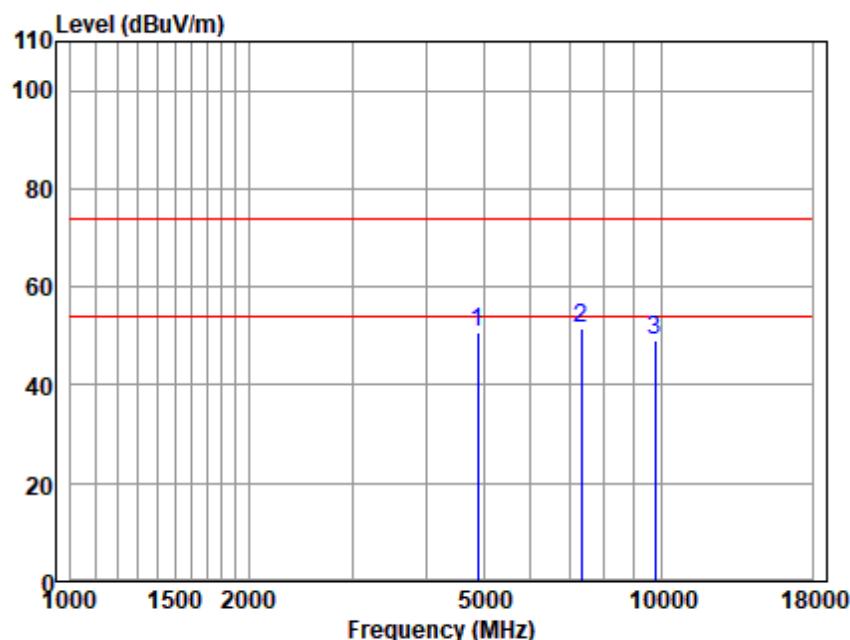
Antenna Polarity :HORIZONTAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	46.38	33.66	5.28	36.81	48.51	74.00	-25.49	Peak
7326.267	42.15	36.33	7.44	35.42	50.50	74.00	-23.50	Peak
9753.371	36.85	37.54	8.80	33.50	49.69	74.00	-24.31	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



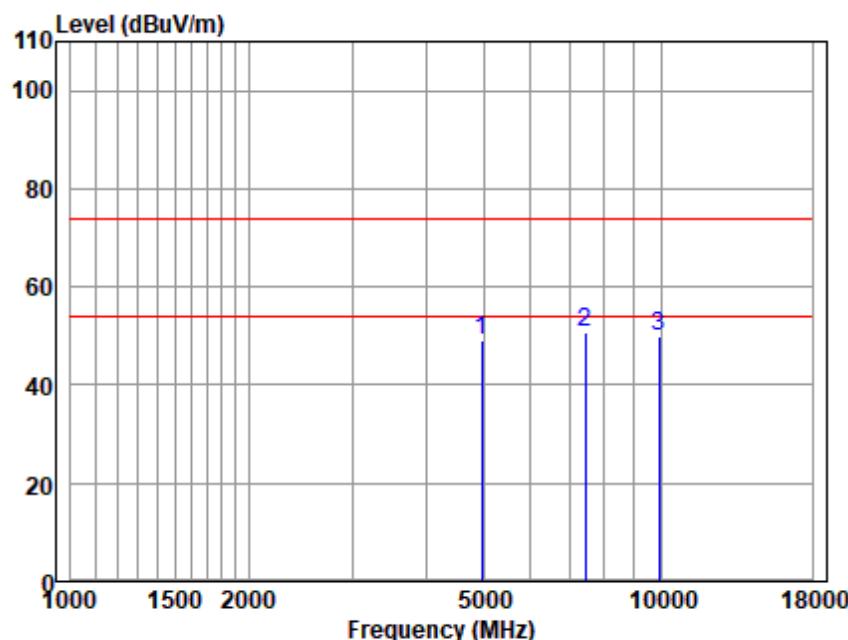
Antenna Polarity :VERTICAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	48.43	33.66	5.28	36.81	50.56	74.00	-23.44	Peak
7326.267	43.03	36.33	7.44	35.42	51.38	74.00	-22.62	Peak
9753.371	36.22	37.54	8.80	33.50	49.06	74.00	-24.94	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



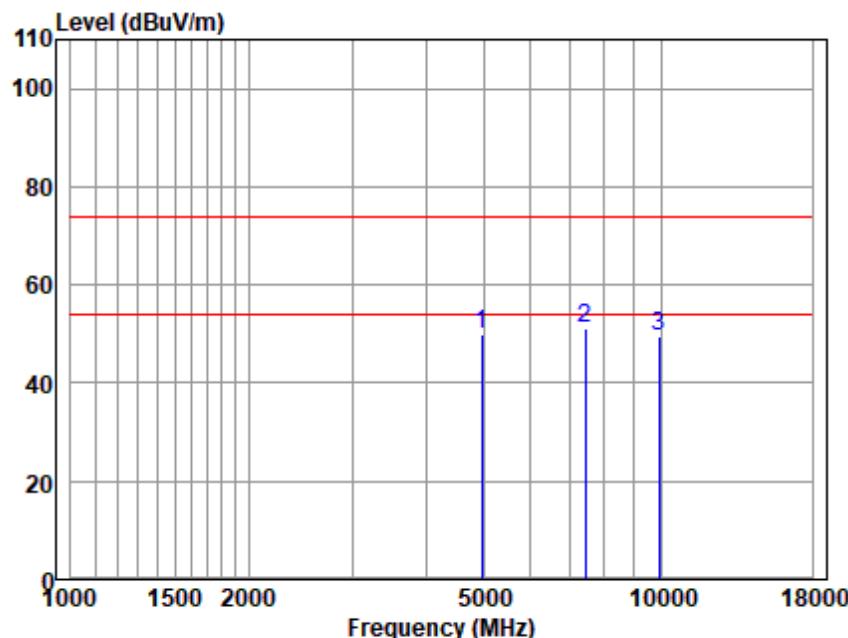
Antenna Polarity :HORIZONTAL

EUT/Project :0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	46.76	33.65	5.34	36.83	48.92	74.00	-25.08	Peak
7432.914	42.29	36.31	7.53	35.34	50.79	74.00	-23.21	Peak
9923.991	36.68	37.62	8.88	33.41	49.77	74.00	-24.23	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity : VERTICAL

EUT/Project : 0871HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	47.80	33.65	5.34	36.83	49.96	74.00	-24.04	Peak
7432.914	42.47	36.31	7.53	35.34	50.97	74.00	-23.03	Peak
9923.991	36.59	37.62	8.88	33.41	49.68	74.00	-24.32	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

## 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

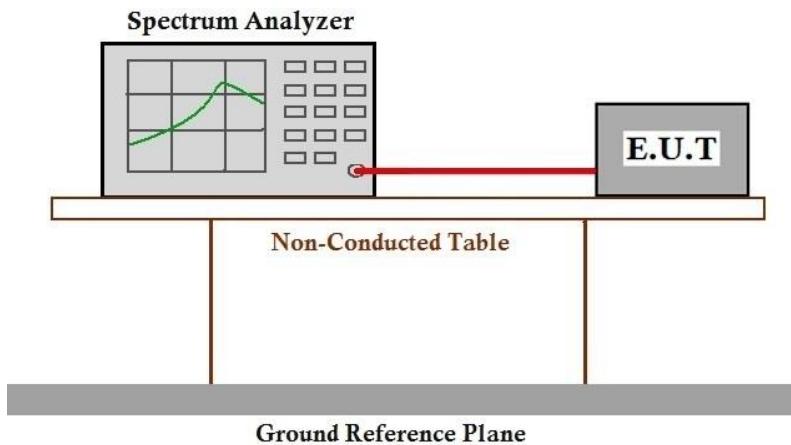
Operating Environment:

Temperature: 22 °C

Humidity: 50 % RH

Atmospheric Pressure: 1010 mbar

### 7.4.2 Test Setup Diagram



### 7.4.3 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

## 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

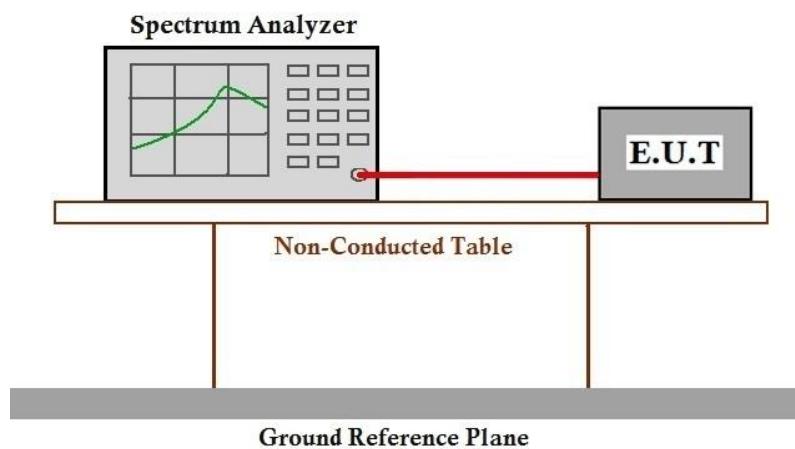
Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

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

### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 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

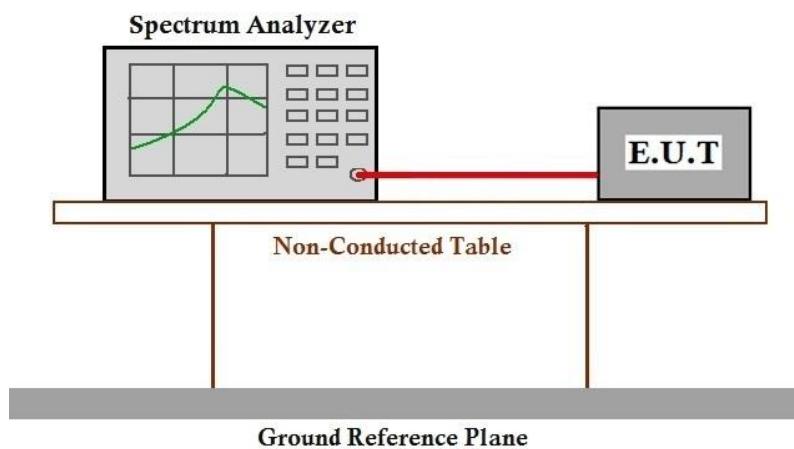
Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

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

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 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

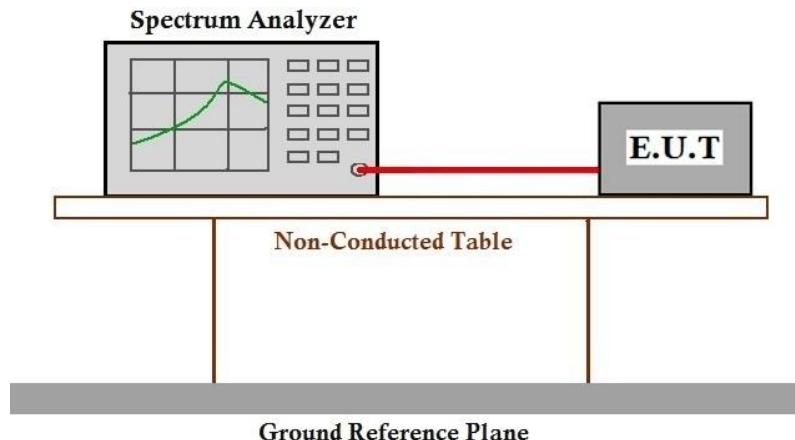
Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1010 mbar

### 7.7.2 Test Mode Description

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

### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.8 Conducted 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

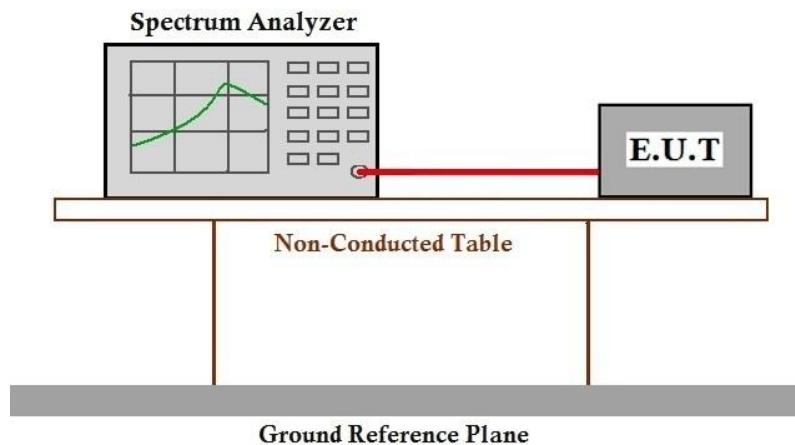
Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1010 mbar

### 7.8.2 Test Mode Description

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

### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: ANSI C63.10 (2013) Section 6.9.3

### 7.9.1 E.U.T. Operation

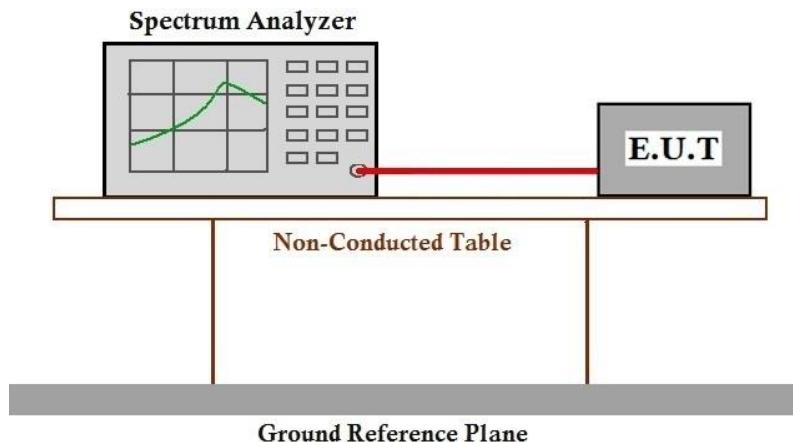
Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1010 mbar

### 7.9.2 Test Mode Description

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

### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2504000871HS

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2504000871HS

## 10 Appendix

### 1. Bandwidth

#### 1.1 Test Result

##### 1.1.1 OBW

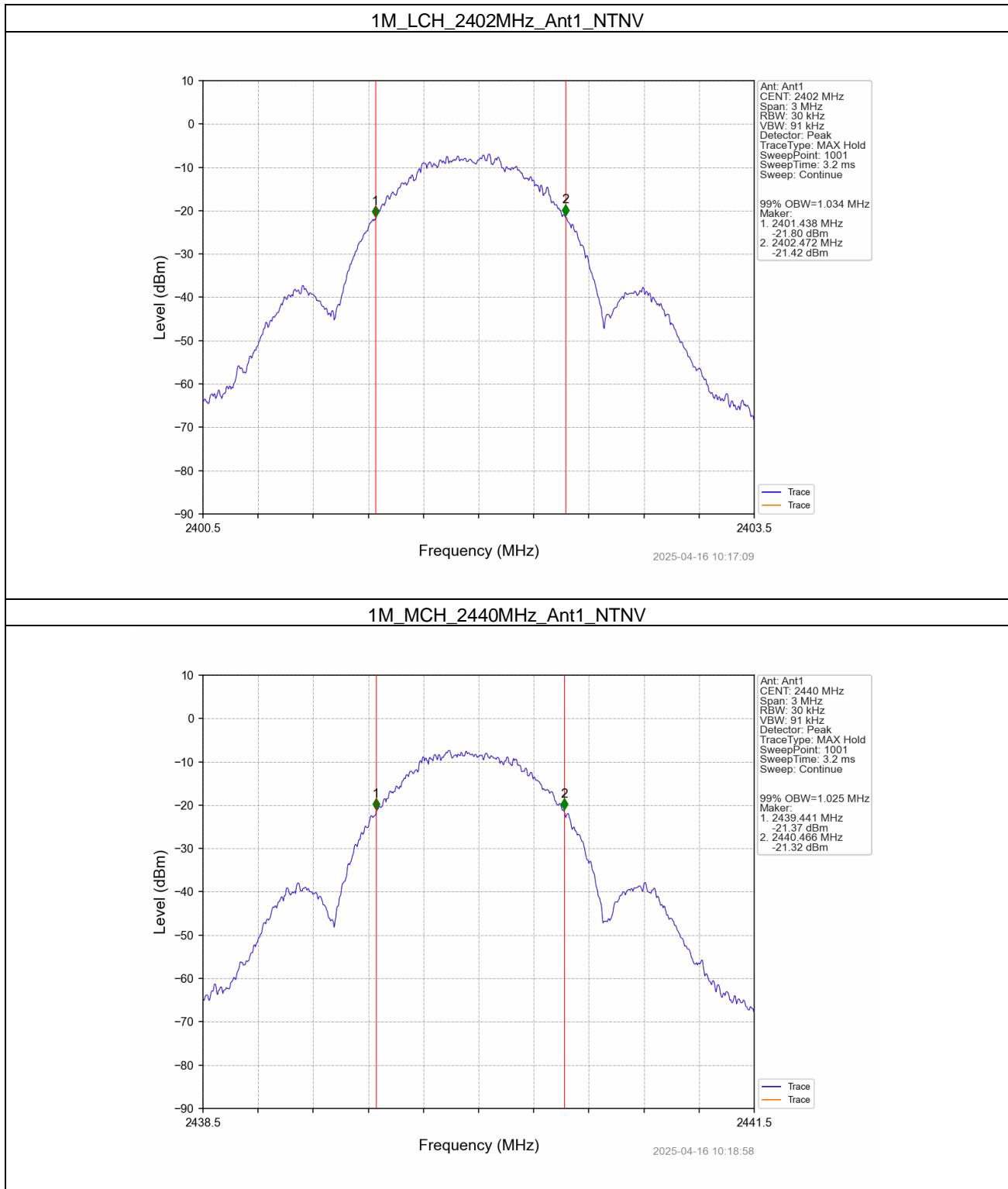
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.034	/	Pass
		2440	1	1.025	/	Pass
		2480	1	1.028	/	Pass
2M	SISO	2402	1	2.029	/	Pass
		2440	1	2.046	/	Pass
		2480	1	2.035	/	Pass

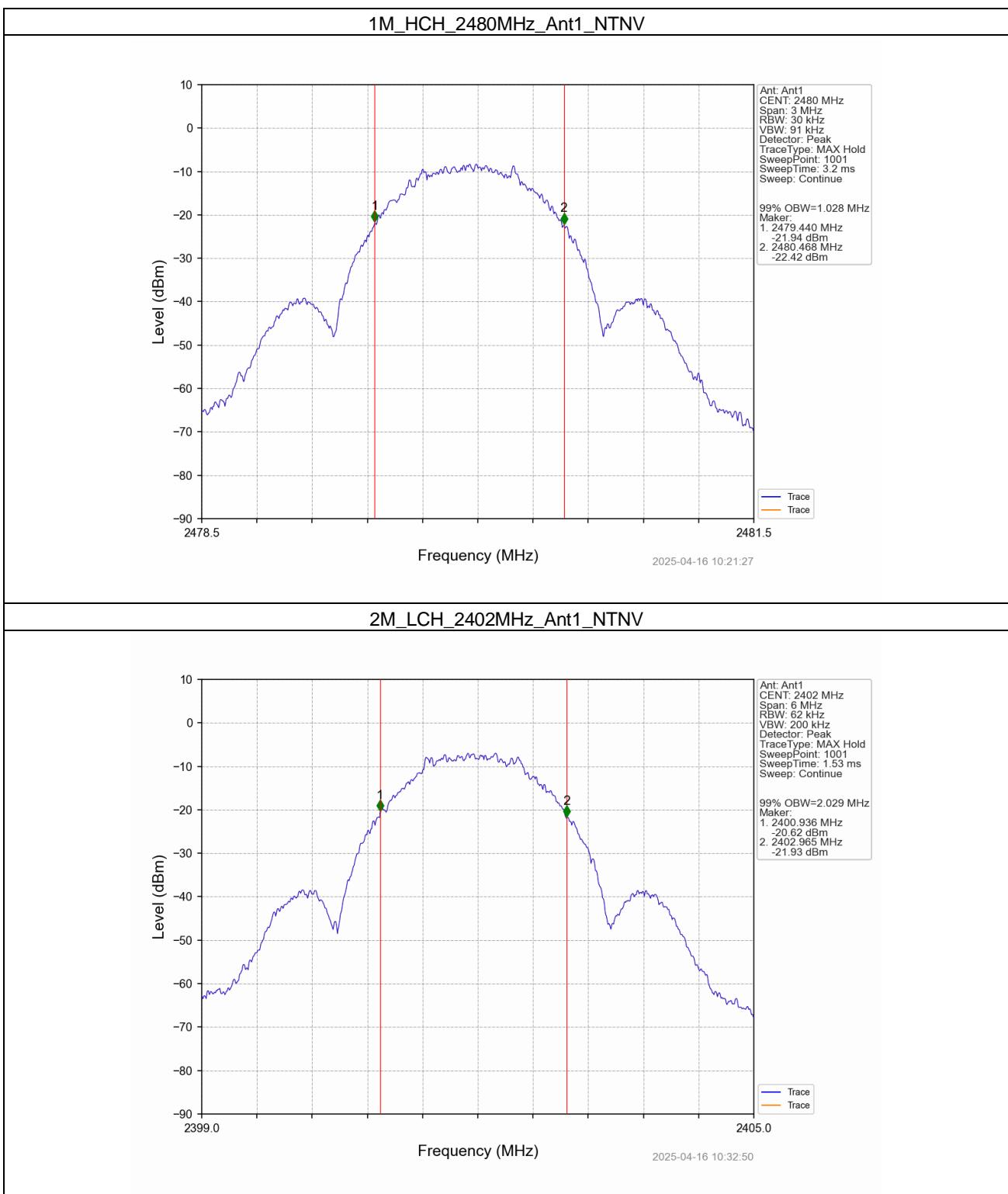
##### 1.1.2 6dB BW

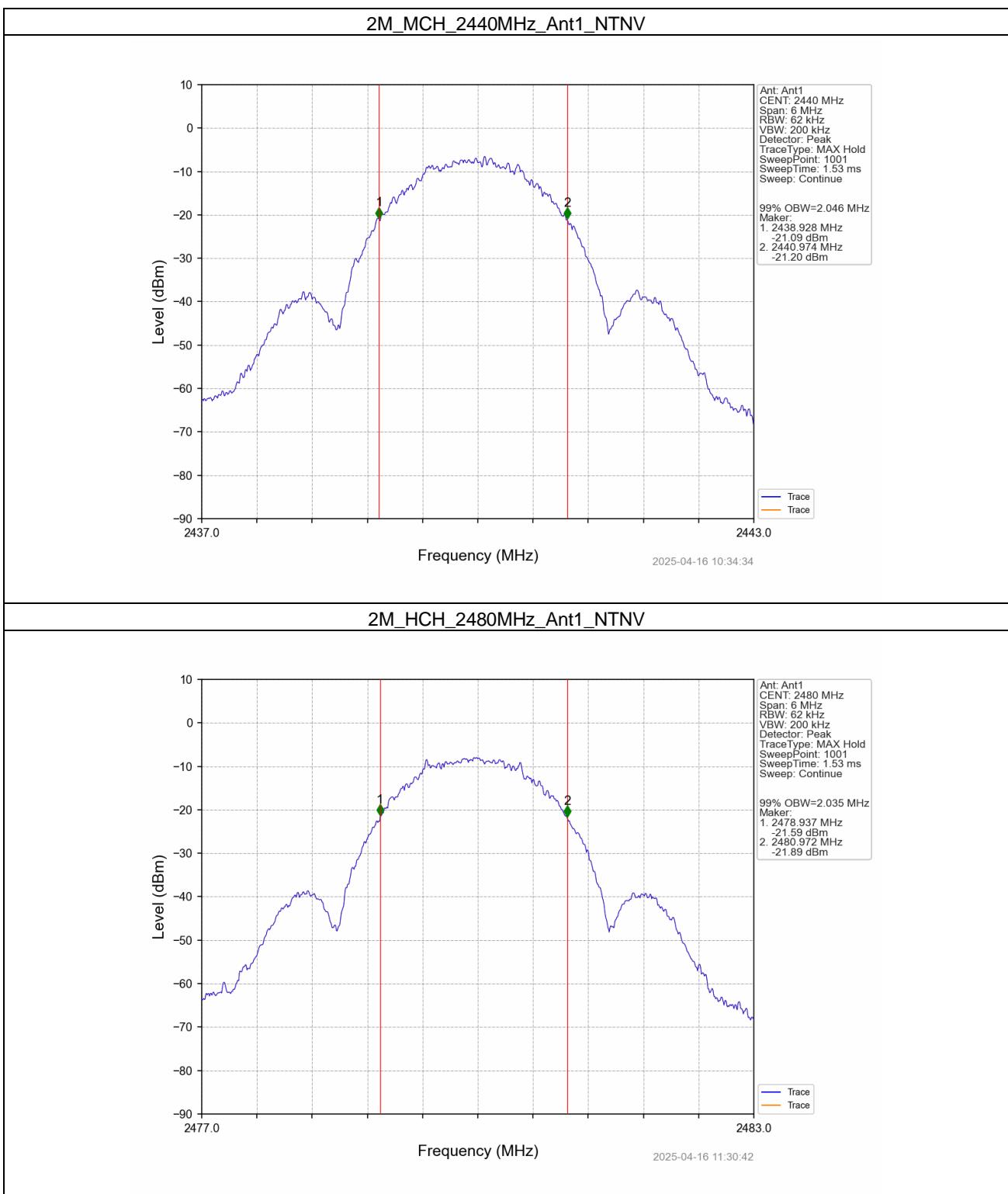
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.684	>=0.5	Pass
		2440	1	0.679	>=0.5	Pass
		2480	1	0.673	>=0.5	Pass
2M	SISO	2402	1	1.336	>=0.5	Pass
		2440	1	1.307	>=0.5	Pass
		2480	1	1.297	>=0.5	Pass

### 1.2 Test Graph

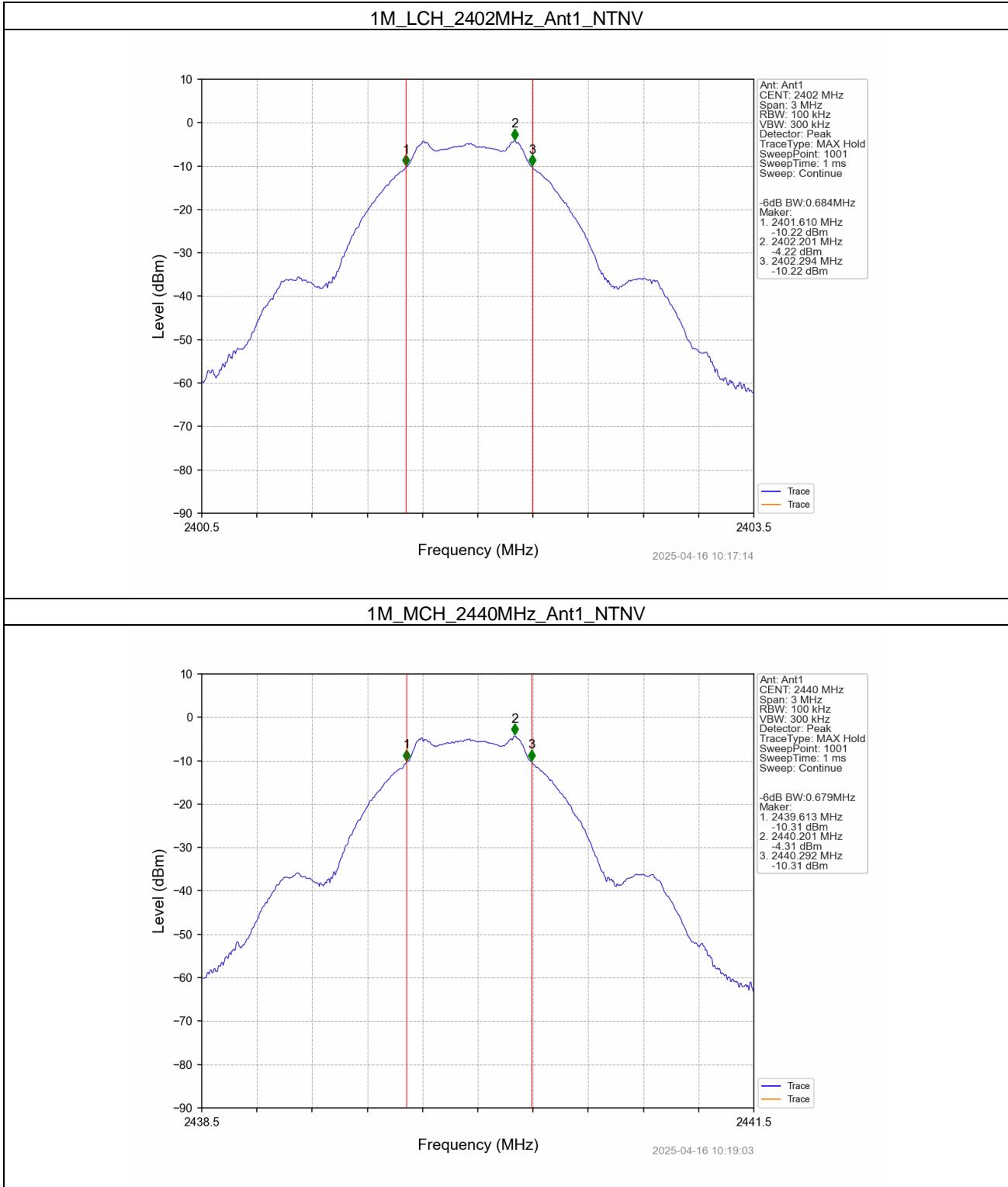
#### 1.2.1 OBW

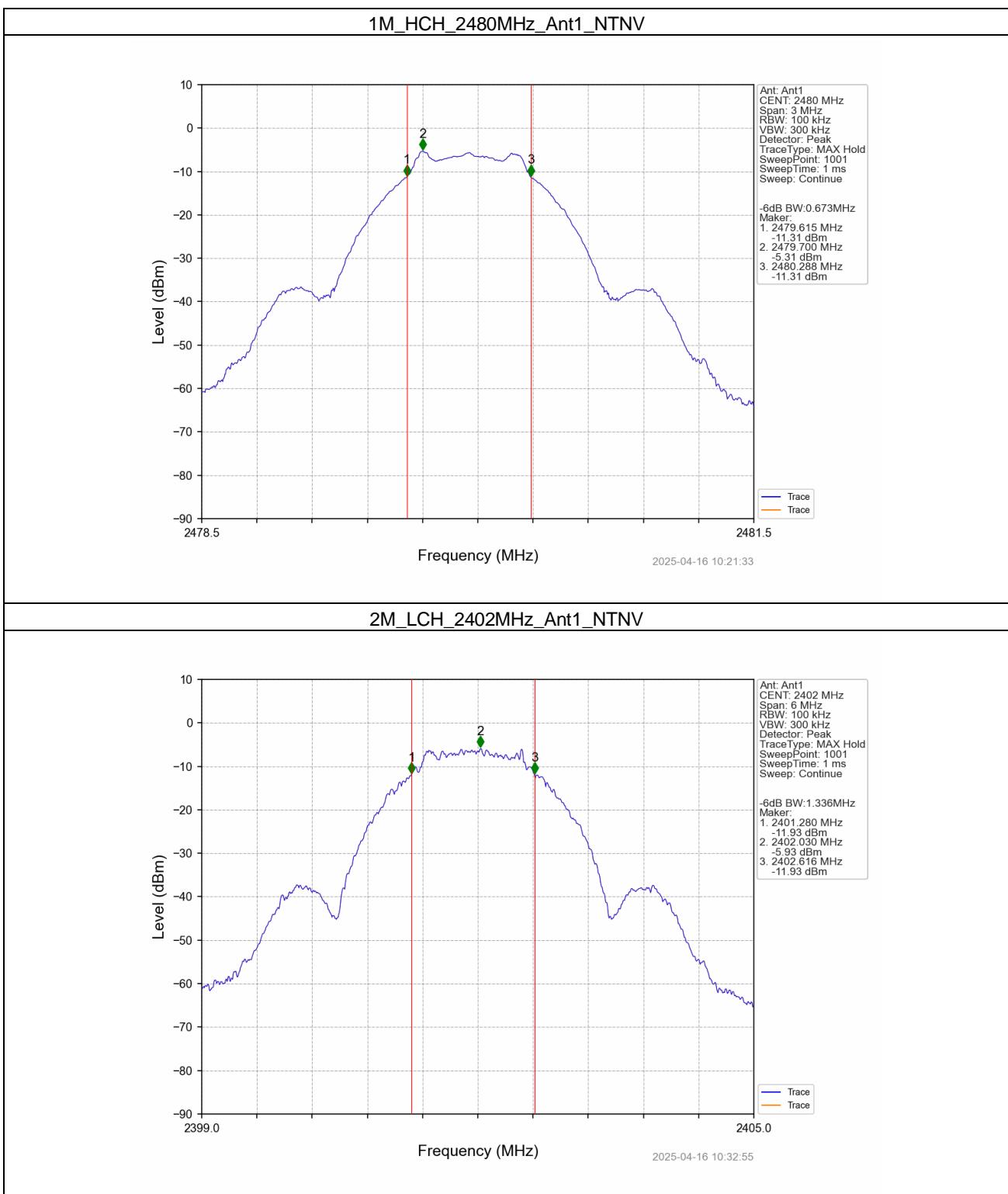


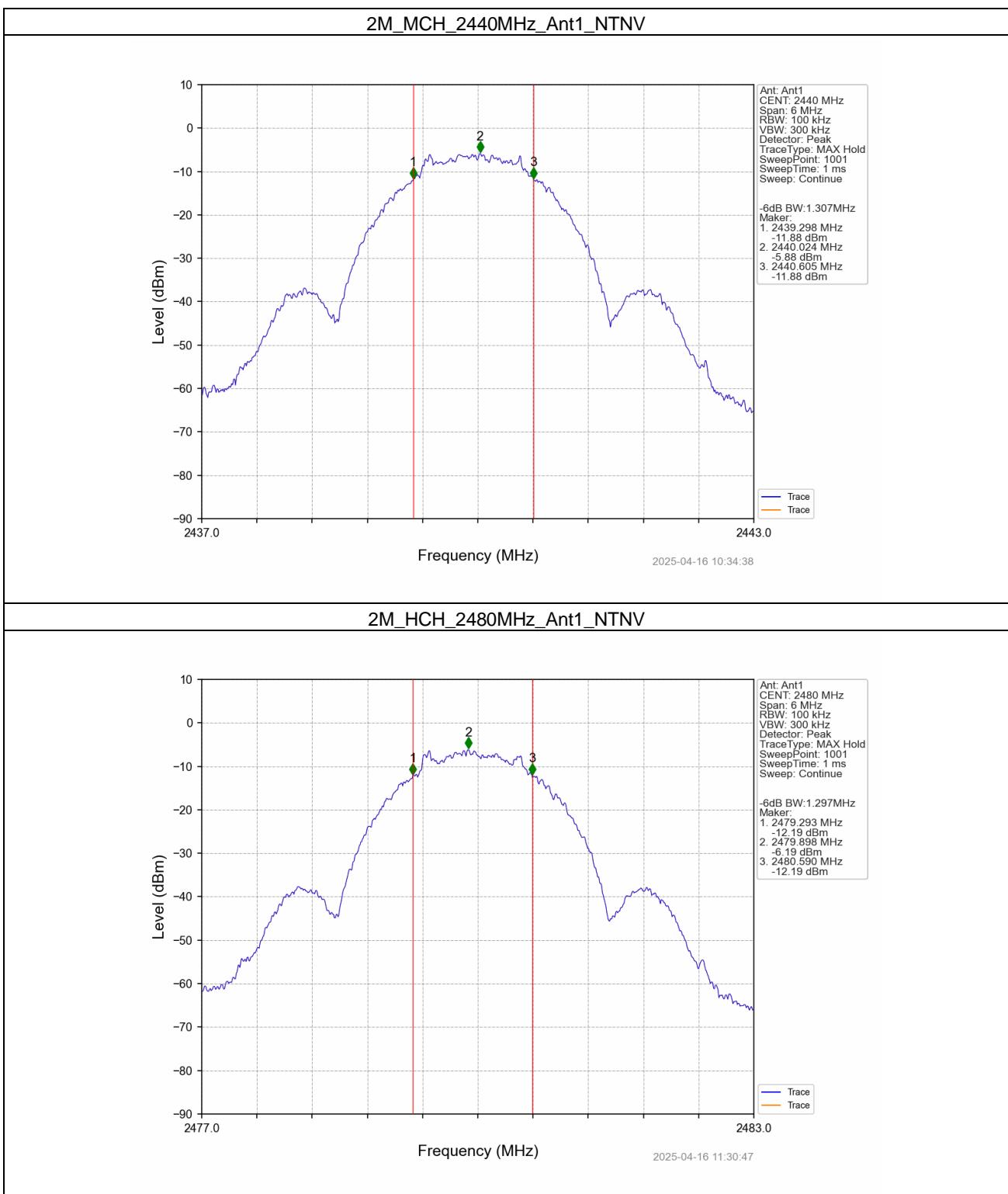




### 1.2.2 6dB BW







## 2. Maximum Conducted Output Power

### 2.1 Test Result

#### 2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	<b>-4.02</b>	<=30	Pass
		2440	-4.15	<=30	Pass
		2480	-5.07	<=30	Pass
2M	SISO	2402	-4.03	<=30	Pass
		2440	-4.11	<=30	Pass
		2480	-4.65	<=30	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

#### 2.1.2 EIRP

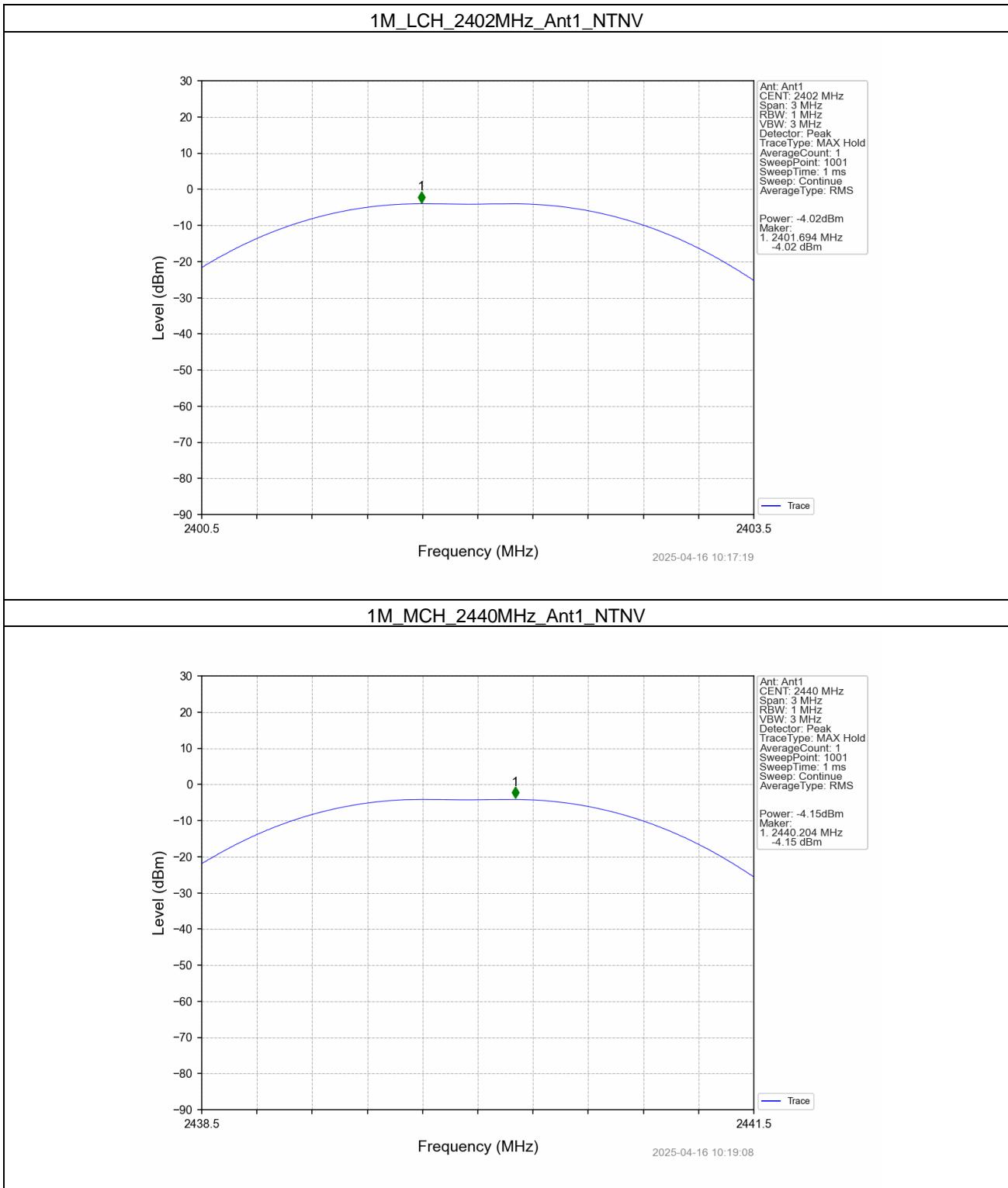
Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-4.02	<=36.02	Pass
		2440	-4.15	<=36.02	Pass
		2480	-5.07	<=36.02	Pass
2M	SISO	2402	-4.03	<=36.02	Pass
		2440	-4.11	<=36.02	Pass
		2480	-4.65	<=36.02	Pass

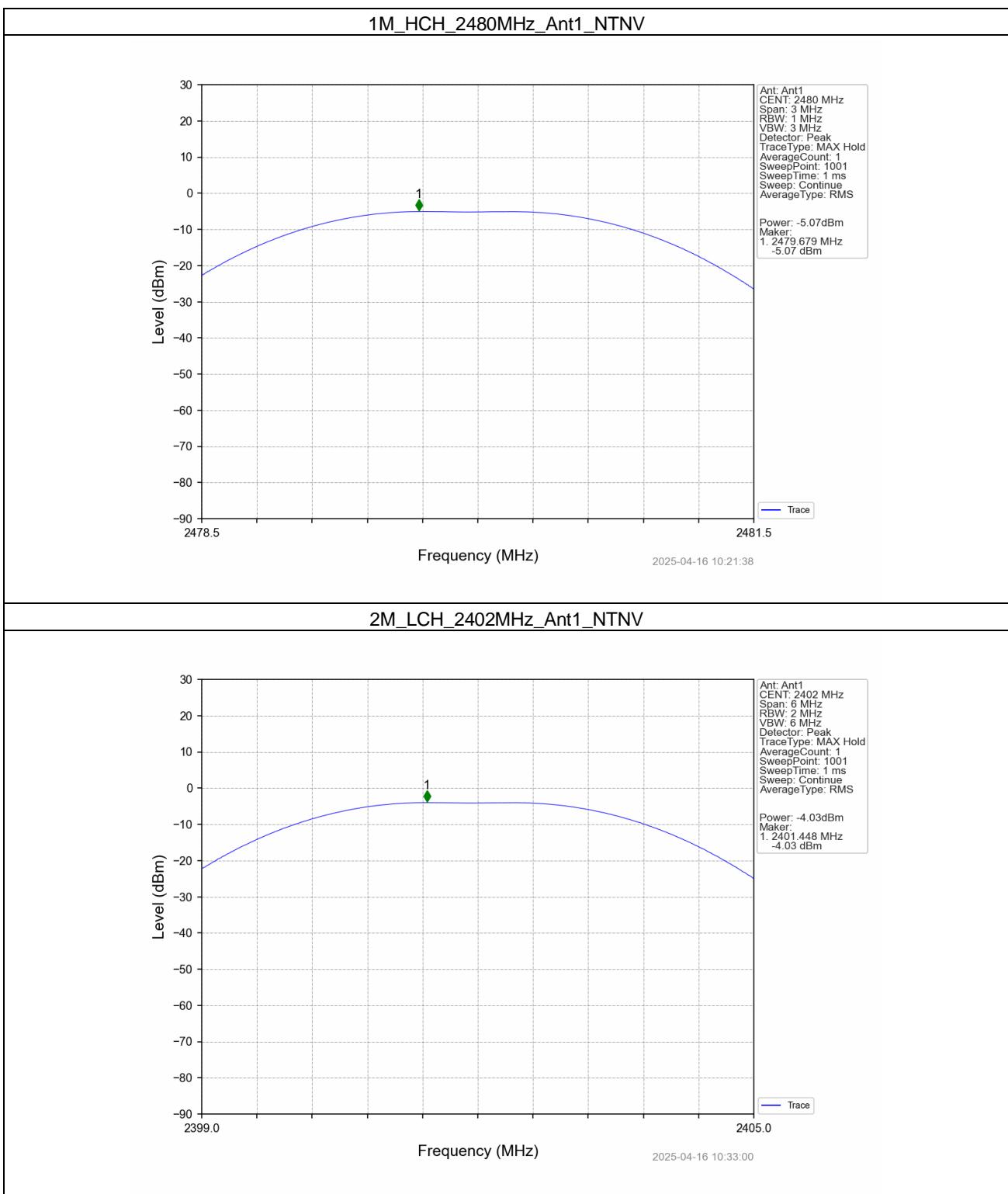
Note1: Antenna Gain: Ant1: 0.00dBi;

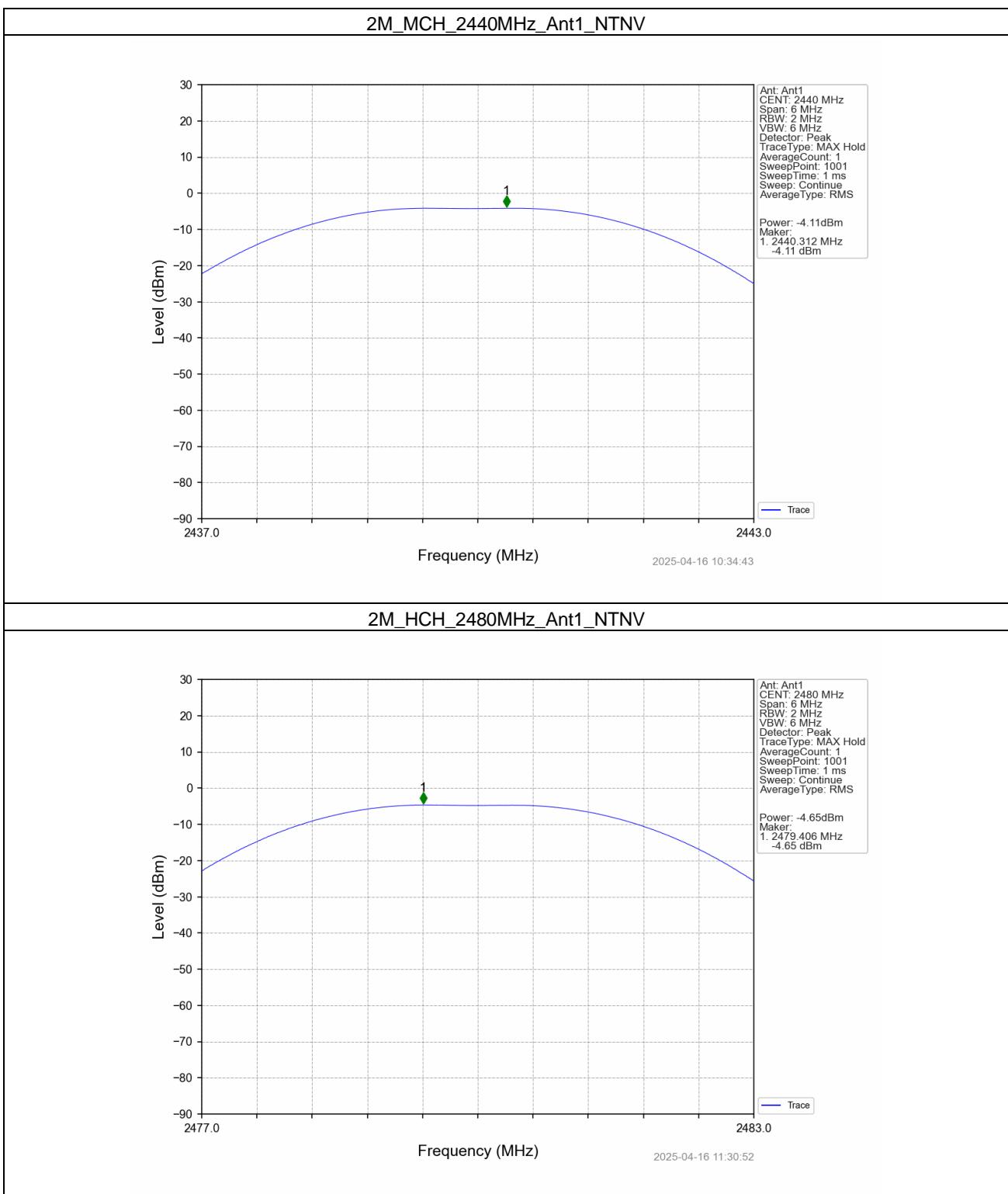
Note2: E.I.R.P = Measured Power + Antenna Gain

## 2.2 Test Graph

### 2.2.1 Power







### 3. Maximum Power Spectral Density

#### 3.1 Test Result

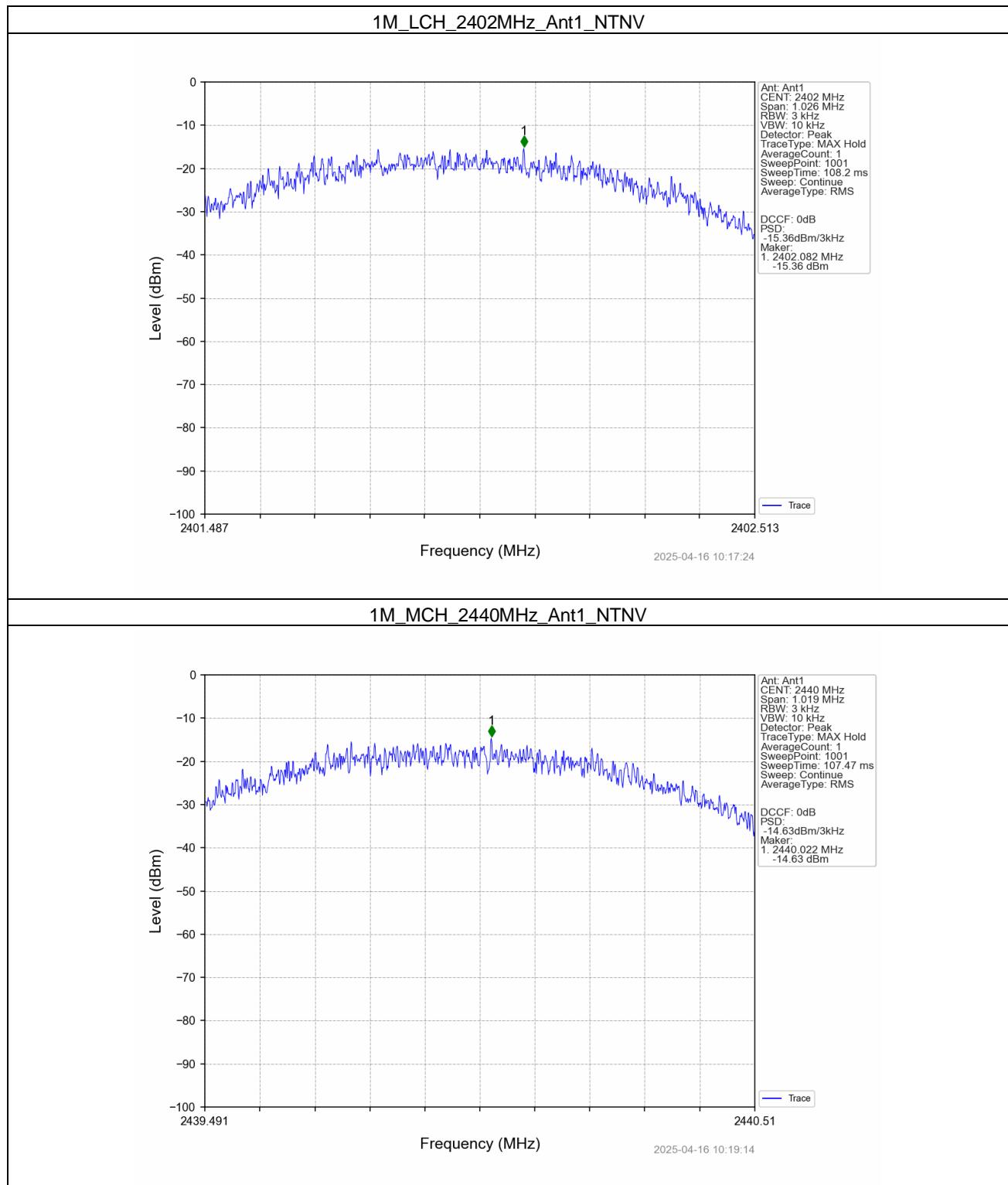
##### 3.1.1 PSD

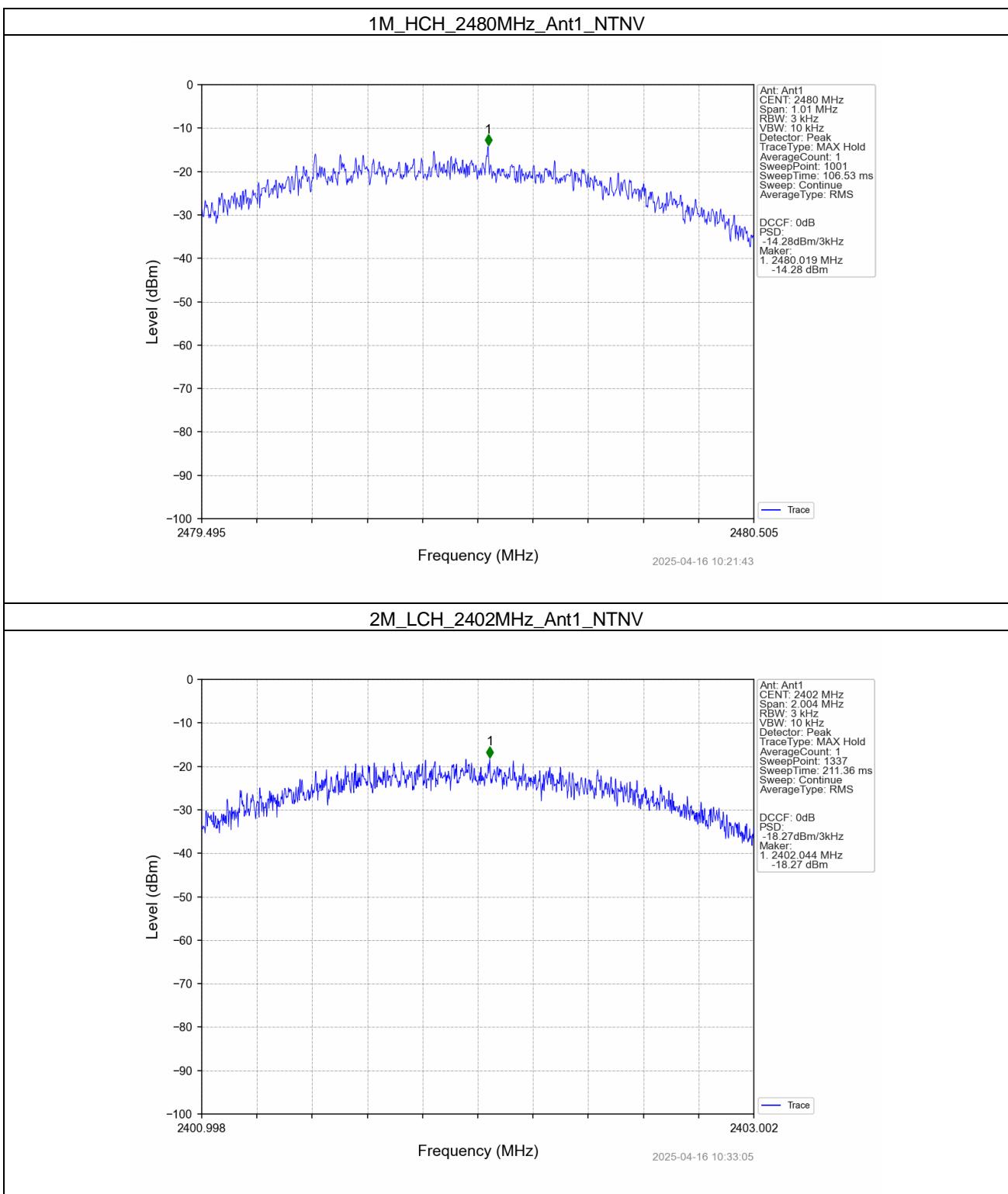
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-15.36	<=8	Pass
		2440	-14.63	<=8	Pass
		2480	-14.28	<=8	Pass
2M	SISO	2402	-18.27	<=8	Pass
		2440	-16.74	<=8	Pass
		2480	-18.15	<=8	Pass

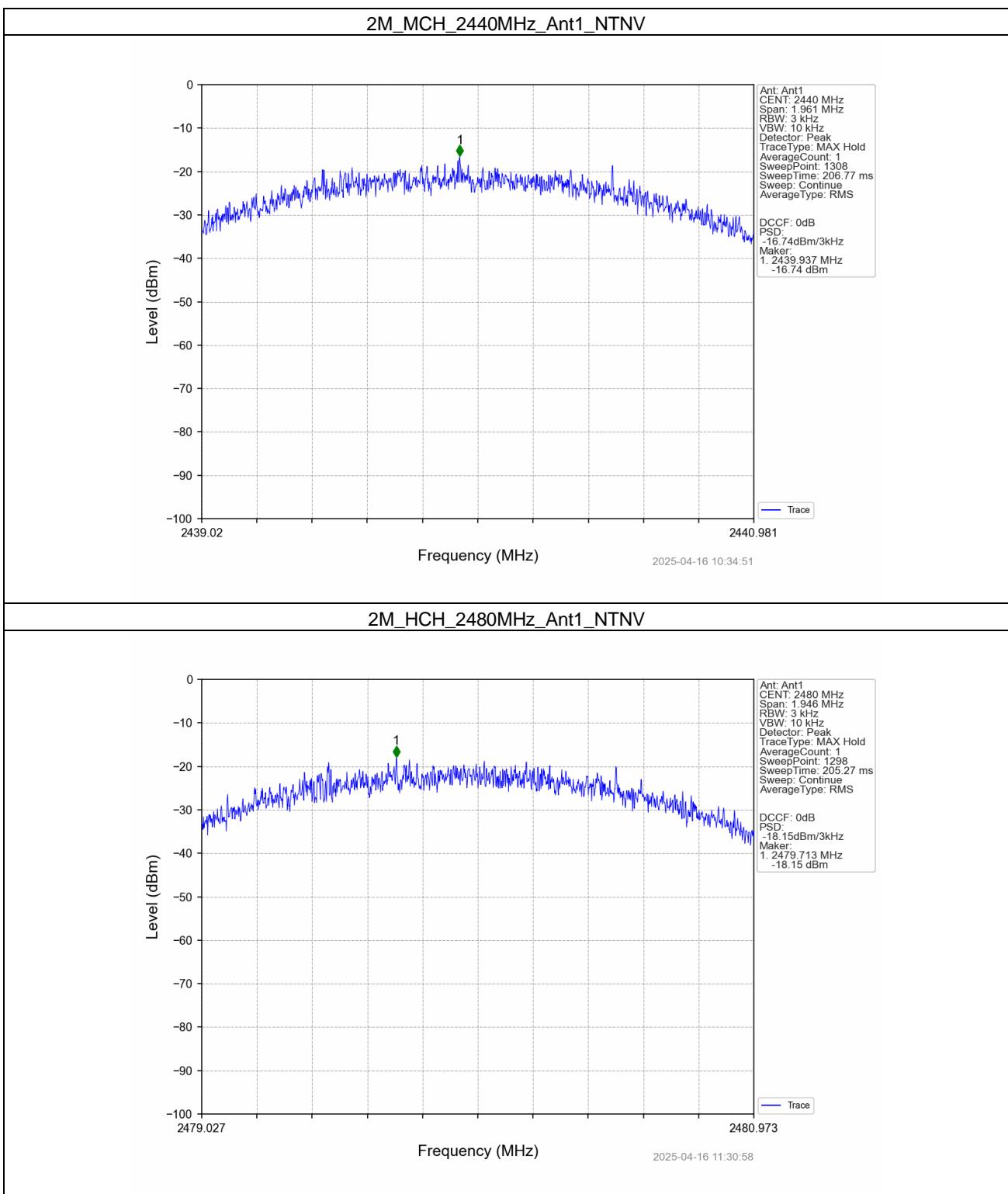
Note1: Antenna Gain: Ant1: 0.00dBi;

### 3.2 Test Graph

#### 3.2.1 PSD







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

### 4.1 Test Result

#### 4.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	<b>-4.27</b>
		2440	1	-4.41
		2480	1	-5.29
2M	SISO	2402	1	<b>-5.48</b>
		2440	1	-5.95
		2480	1	-6.42

Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

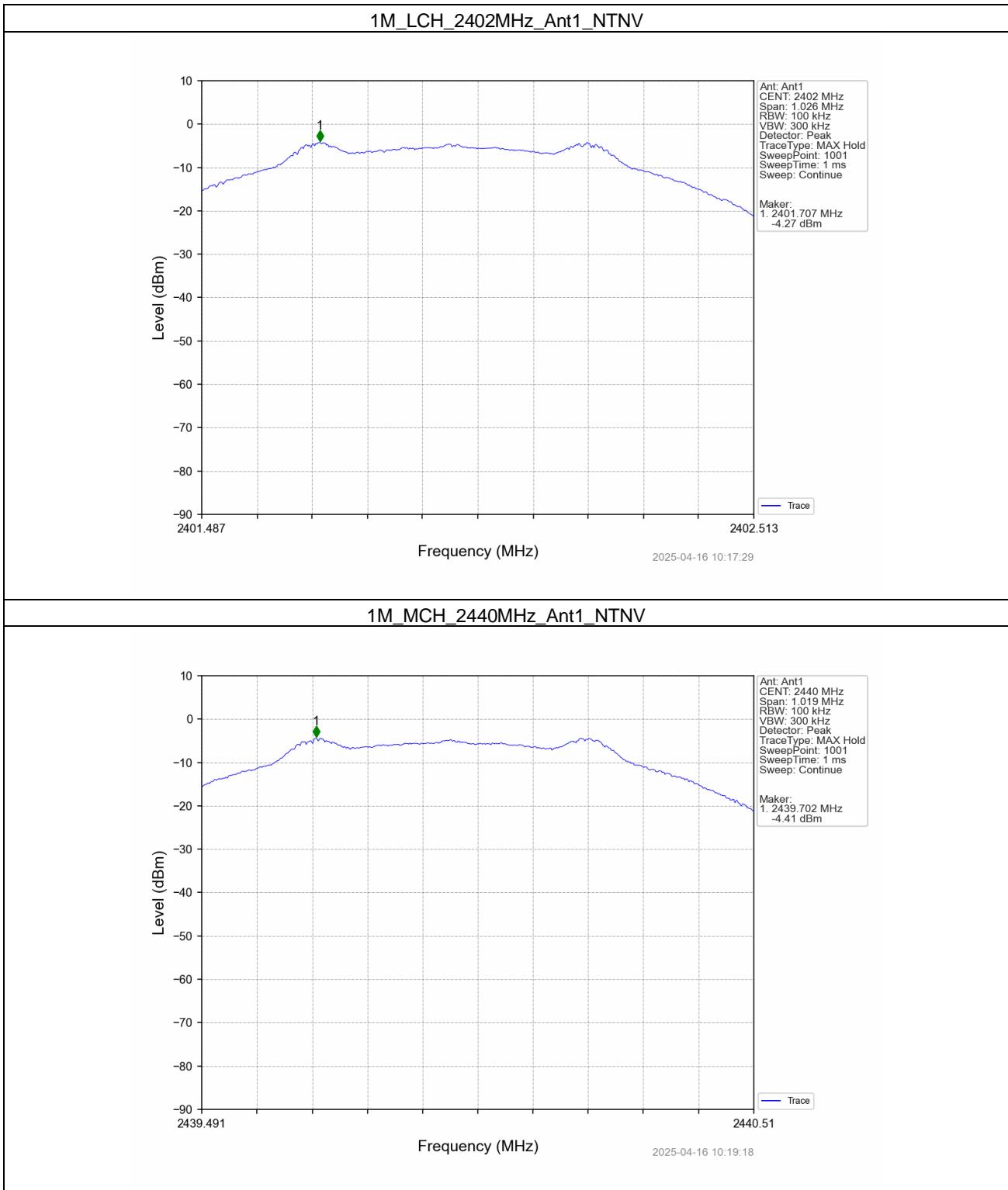
#### 4.1.2 CSE

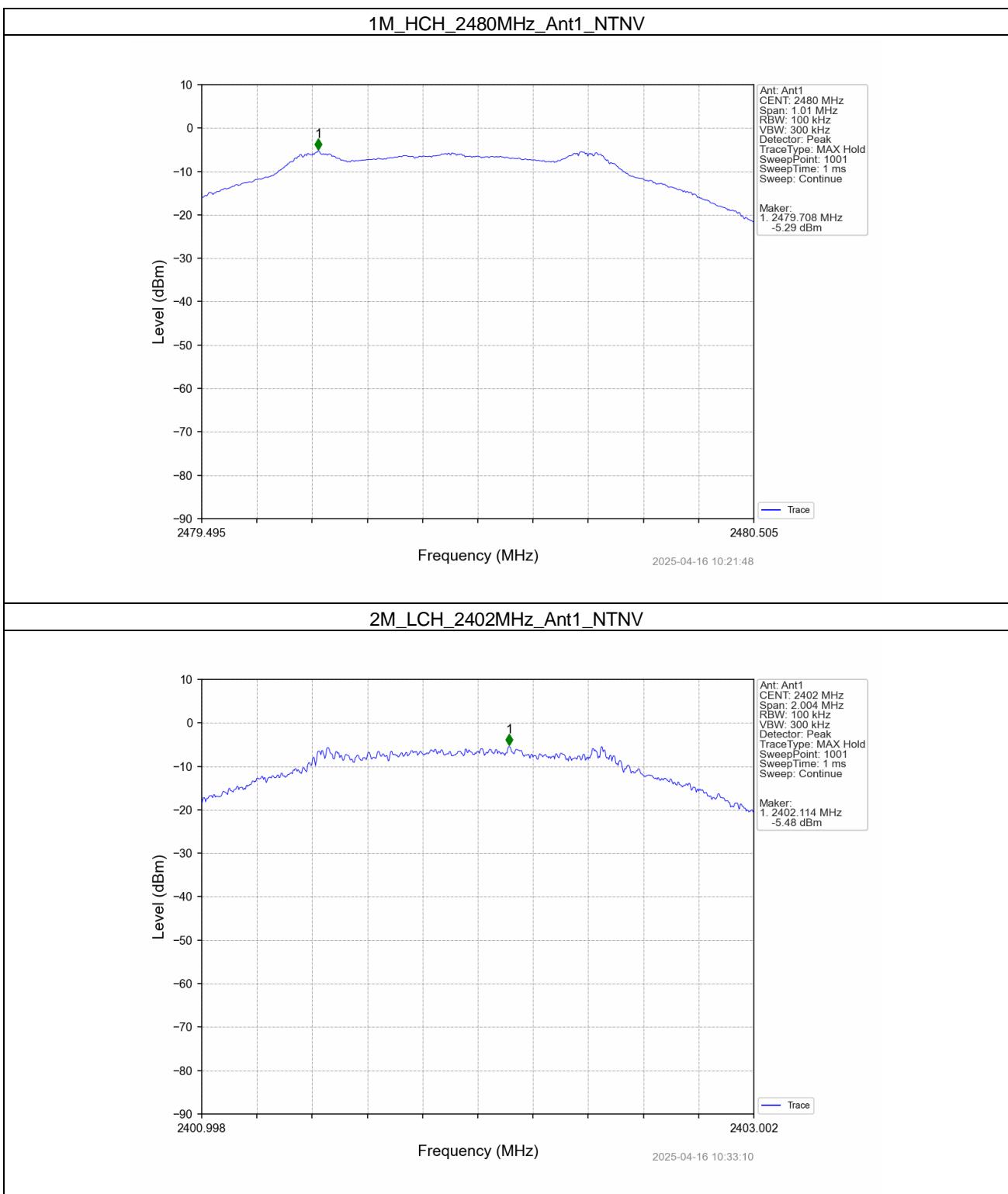
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-4.27	-24.27	Pass
		2440	1	-4.27	-24.27	Pass
		2480	1	-4.27	-24.27	Pass
2M	SISO	2402	1	-5.48	-25.48	Pass
		2440	1	-5.48	-25.48	Pass
		2480	1	-5.48	-25.48	Pass

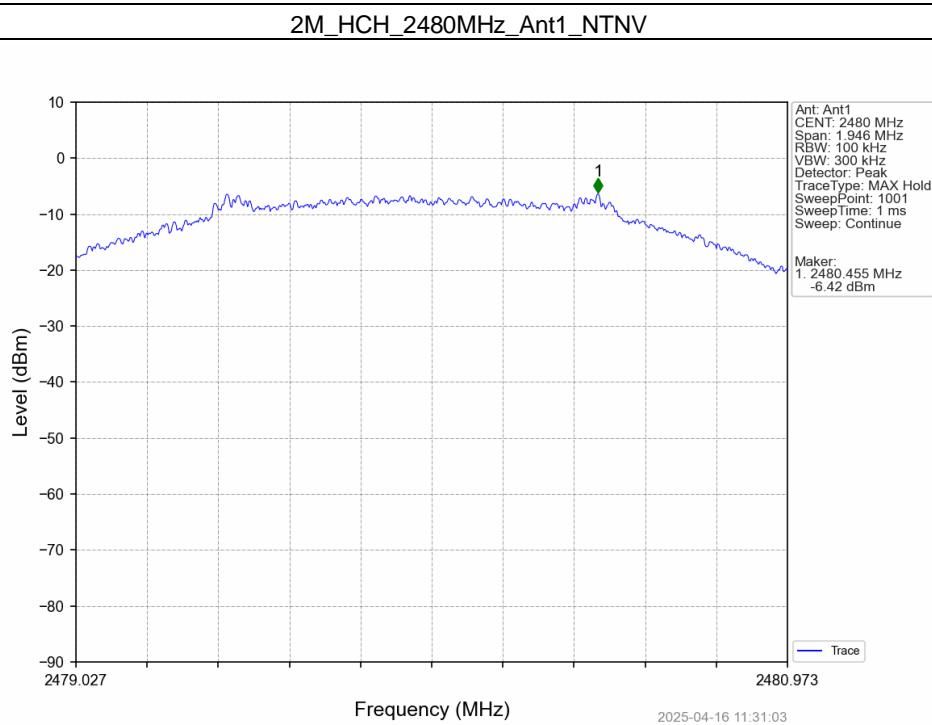
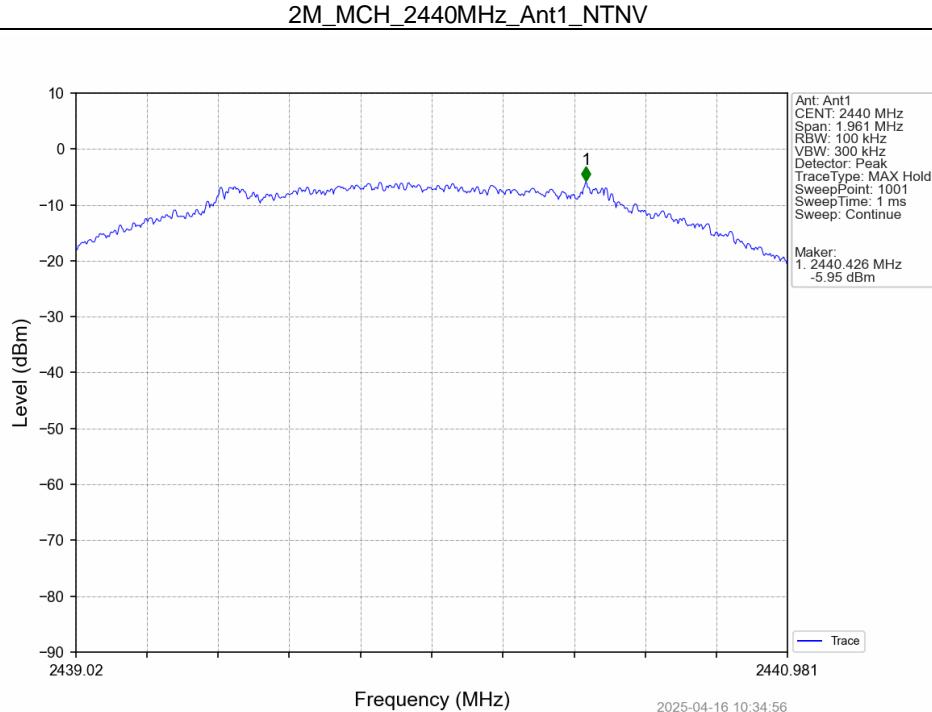
Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

## 4.2 Test Graph

### 4.2.1 Ref







#### 4.2.2 CSE

