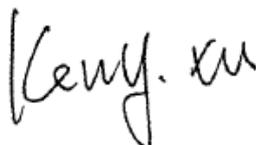


TEST REPORT

Application No.: SZCR2106021810AT
Applicant: Shenzhen Chuangwei-RGB Electronics Co., Ltd.
Address of Applicant: 13F-16F, Unit A, Skyworth Building, Shennan Road, Nanshan District, Shenzhen, 518108 China
Manufacturer: HTP (Jiangxi) Optoelectronic Technology Co., Ltd.
Address of Manufacturer: North Fenghuang Road, Ganzhou Economic Technology Development Zone, Ganzhou, Jiangxi, China
Factory: HTP (Jiangxi) Optoelectronic Technology Co., Ltd.
Address of Factory: North Fenghuang Road, Ganzhou Economic Technology Development Zone, Ganzhou, Jiangxi, China
Equipment Under Test (EUT):
EUT Name: Projector
Model No.: T1
Trade Mark: SKYWORTH
FCC ID: 2ANM3STYT1K55
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-06-25
Date of Test: 2021-07-09 to 2021-07-17
Date of Issue: 2021-08-02

Test Result:	Pass*
---------------------	--------------

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

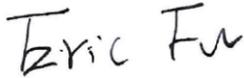


Keny Xu
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-02		Original

Authorized for issue by:			
			
		<hr/>	
		Bill Chen/Project Engineer	
			
		<hr/>	
		Eric Fu/Reviewer	



2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	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
Radiated Emissions which fall in the restricted bands		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

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	7
4.3 MEASUREMENT UNCERTAINTY	7
4.4 TEST LOCATION.....	8
4.5 TEST FACILITY.....	8
4.6 DEVIATION FROM STANDARDS.....	8
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	8
5 EQUIPMENT LIST	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	11
6.1 ANTENNA REQUIREMENT	11
6.1.1 <i>Test Requirement:</i>	11
7 RADIO SPECTRUM MATTER TEST RESULTS	12
7.1 CONDUCTED PEAK OUTPUT POWER	12
7.1.1 <i>E.U.T. Operation</i>	12
7.1.2 <i>Test Mode Description</i>	12
7.1.3 <i>Test Setup Diagram</i>	12
7.1.4 <i>Measurement Procedure and Data</i>	13
7.2 MINIMUM 6DB BANDWIDTH.....	14
7.2.1 <i>E.U.T. Operation</i>	14
7.2.2 <i>Test Mode Description</i>	14
7.2.3 <i>Test Setup Diagram</i>	14
7.2.4 <i>Measurement Procedure and Data</i>	14
7.3 POWER SPECTRUM DENSITY.....	15
7.3.1 <i>E.U.T. Operation</i>	15
7.3.2 <i>Test Mode Description</i>	15
7.3.3 <i>Test Setup Diagram</i>	15
7.3.4 <i>Measurement Procedure and Data</i>	15
7.4 CONDUCTED BAND EDGES MEASUREMENT	16
7.4.1 <i>E.U.T. Operation</i>	16
7.4.2 <i>Test Mode Description</i>	16
7.4.3 <i>Test Setup Diagram</i>	16
7.4.4 <i>Measurement Procedure and Data</i>	16
7.5 CONDUCTED SPURIOUS EMISSIONS.....	17
7.5.1 <i>E.U.T. Operation</i>	17
7.5.2 <i>Test Mode Description</i>	17
7.5.3 <i>Test Setup Diagram</i>	17
7.5.4 <i>Measurement Procedure and Data</i>	17



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7.6	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	18
7.6.1	<i>E.U.T. Operation</i>	18
7.6.2	<i>Test Mode Description</i>	18
7.6.3	<i>Test Setup Diagram</i>	19
7.6.4	<i>Measurement Procedure and Data</i>	19
7.7	RADIATED SPURIOUS EMISSIONS BELOW 1GHZ	24
7.7.1	<i>E.U.T. Operation</i>	24
7.7.2	<i>Test Mode Description</i>	24
7.7.3	<i>Test Setup Diagram</i>	24
7.7.4	<i>Measurement Procedure and Data</i>	25
7.8	RADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	28
7.8.1	<i>E.U.T. Operation</i>	28
7.8.2	<i>Test Mode Description</i>	28
7.8.3	<i>Test Setup Diagram</i>	28
7.8.4	<i>Measurement Procedure and Data</i>	29
8	EMISSION TEST RESULTS	36
8.1	CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)	36
8.1.1	<i>E.U.T. Operation</i>	36
8.1.2	<i>Test Mode Description</i>	36
8.1.3	<i>Test Setup Diagram</i>	36
8.1.4	<i>Measurement Procedure and Data</i>	37
9	TEST SETUP PHOTO	40
10	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	40
11	APPENDIX	41



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 110-240V,50/60Hz, 150W 3.0V DC (1.5V x 2 "AAA" Size Batteries) for remote controller
Cable(s):	AC cable: 145cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	2dBi

Operation Frequency each of channel

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



Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Selected Test Channel	
Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (C19)	2440MHz
The highest channel (CH39)	2480MHz

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
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
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
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR 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:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **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



5 Equipment List

RF Conducted					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2021-07-09	2022-07-08
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2021-07-09	2022-07-08
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2021-07-09	2022-07-08

Radiated Spurious Emissions Above 1GHz



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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2021-07-09	2022-07-08

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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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)

Limit:

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.

Antenna location: Refer to Internal photos.



7 Radio Spectrum Matter Test Results

7.1 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 ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 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

7.1.1 E.U.T. Operation

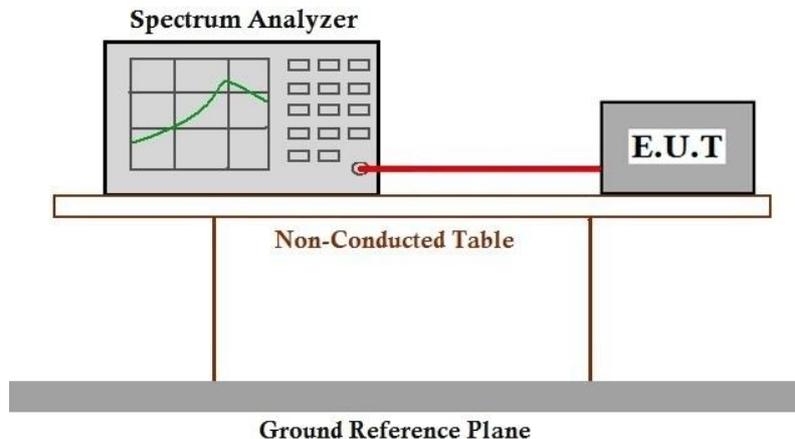
Operating Environment:

Temperature: 26.3 °C Humidity: 38.1 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.2 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

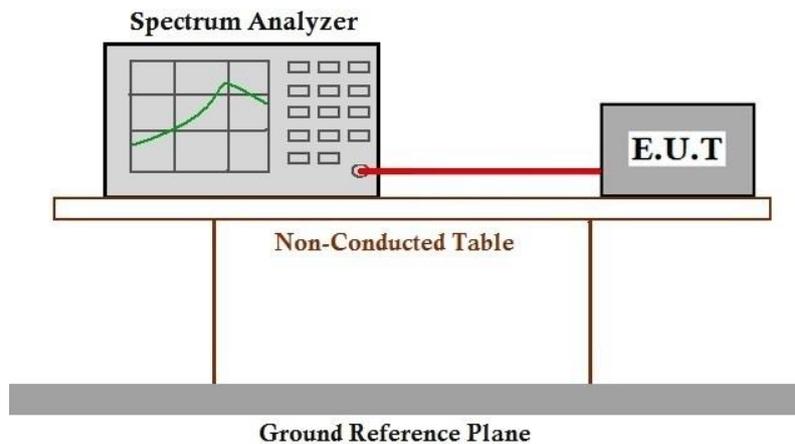
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.3 °C Humidity: 38.1 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 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

7.3.1 E.U.T. Operation

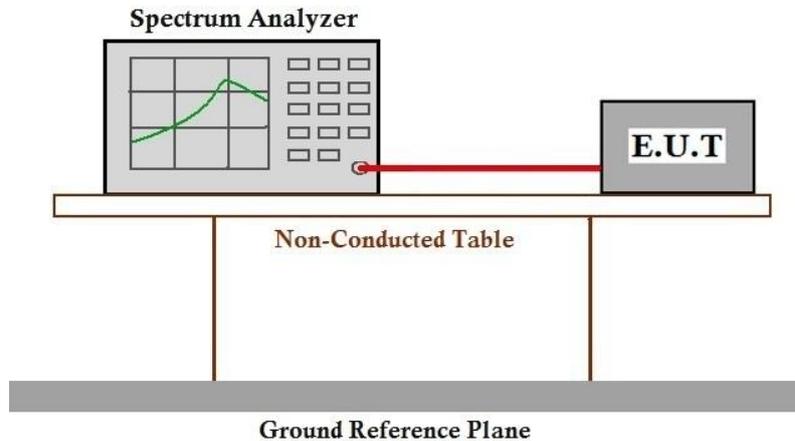
Operating Environment:

Temperature: 26.3 °C Humidity: 38.1 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 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)).

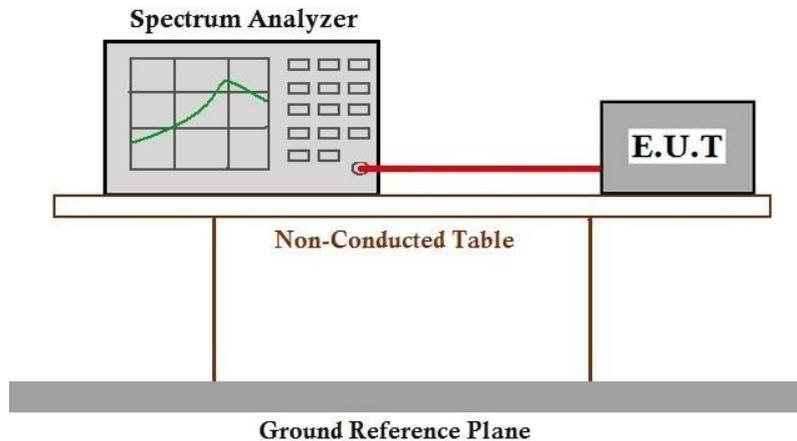
7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.3 °C Humidity: 38.1 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 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)).

7.5.1 E.U.T. Operation

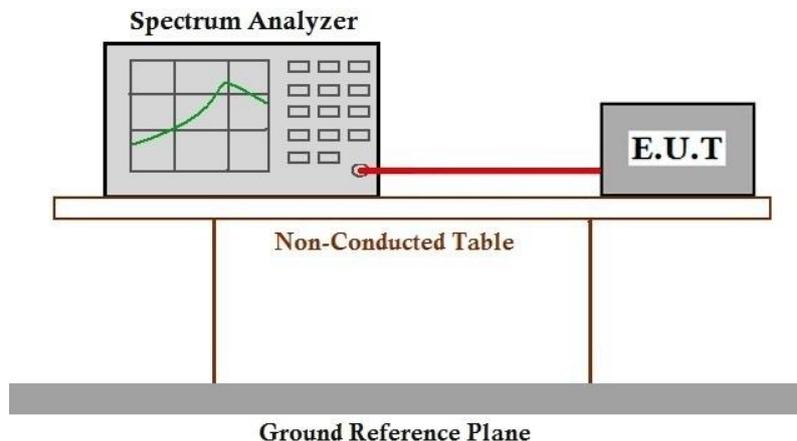
Operating Environment:

Temperature: 26.3 °C Humidity: 38.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 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.

7.6.1 E.U.T. Operation

Operating Environment:

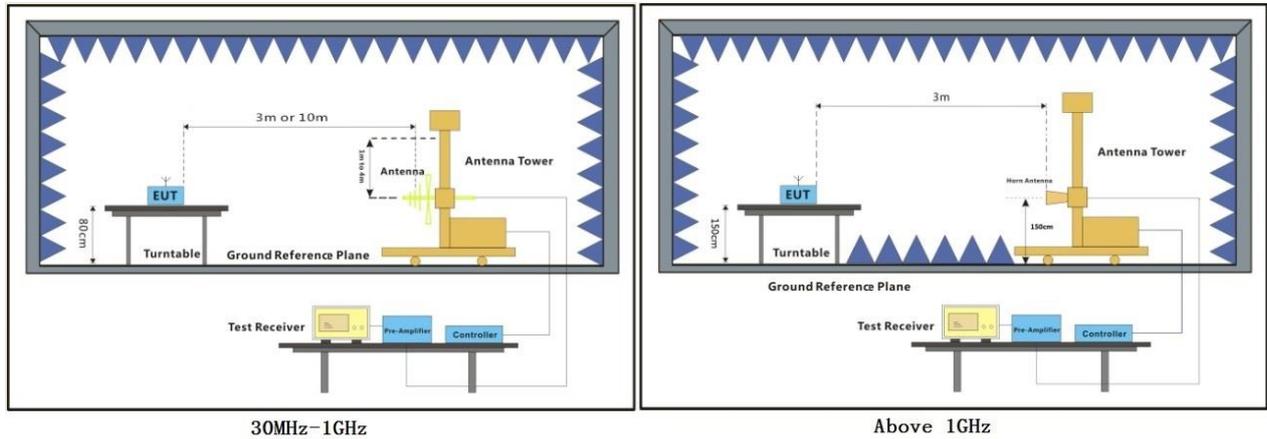
Temperature: 21.6 °C Humidity: 51.9 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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

- 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.

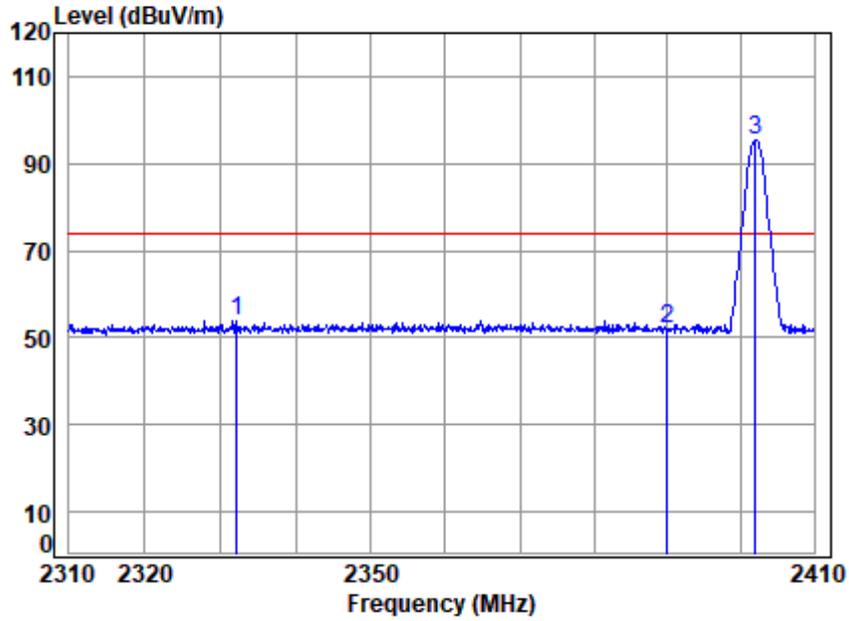
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



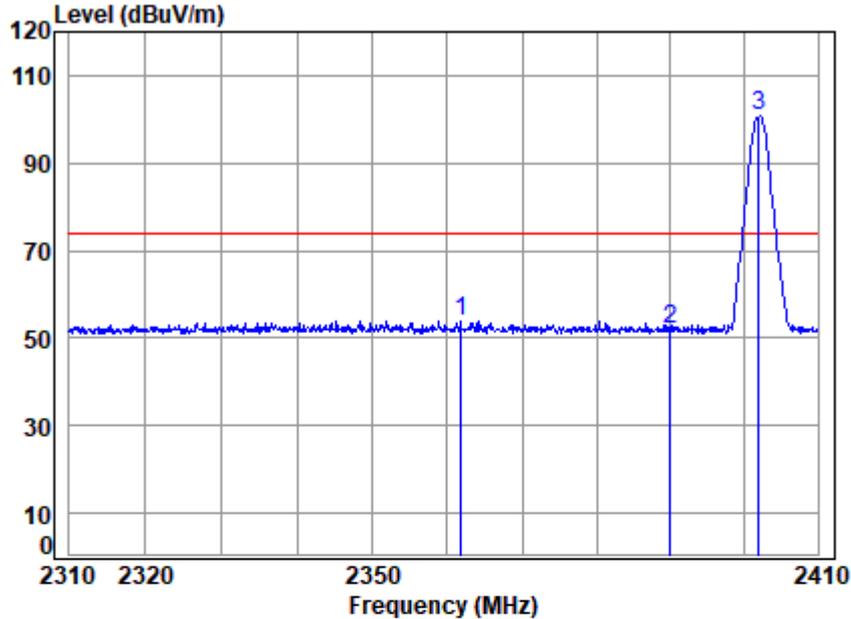
Site : chamber
Condition: 3m HORIZONTAL
Job No : 21810AT
Mode : 2402 Band edge
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2332.132	4.25	28.76	40.39	61.25	53.87	74.00	-20.13 peak
2	2390.000	4.34	28.88	40.42	59.09	51.89	74.00	-22.11 peak
3	2402.000	4.36	28.90	40.43	102.67	95.50	74.00	21.50 peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



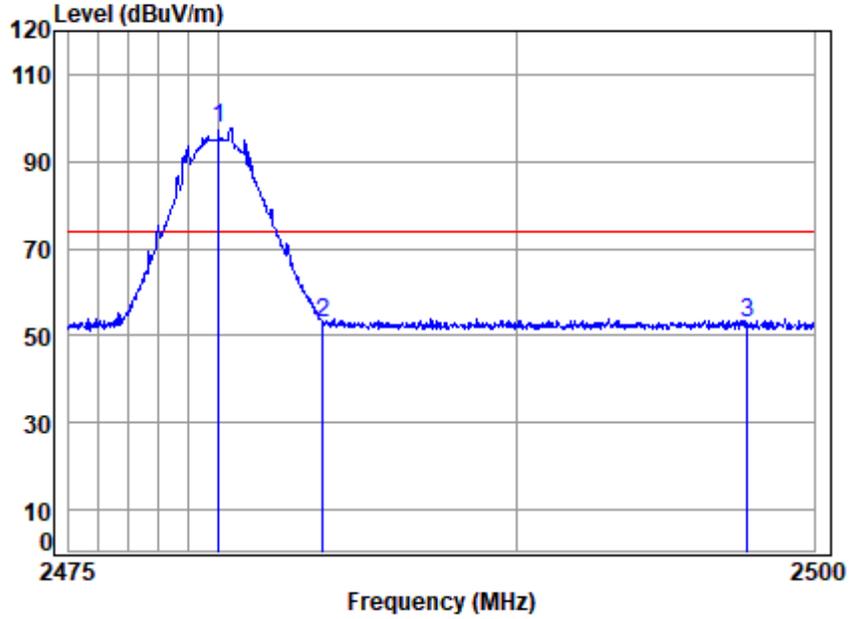
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21810AT
 Mode : 2402 Band edge
 Note : BLE

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2361.771	4.30	28.82	40.41	60.35	53.06	74.00	-20.94 peak
2	2390.000	4.34	28.88	40.42	59.27	52.07	74.00	-21.93 peak
3	2402.000	4.36	28.90	40.43	107.81	100.64	74.00	26.64 peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



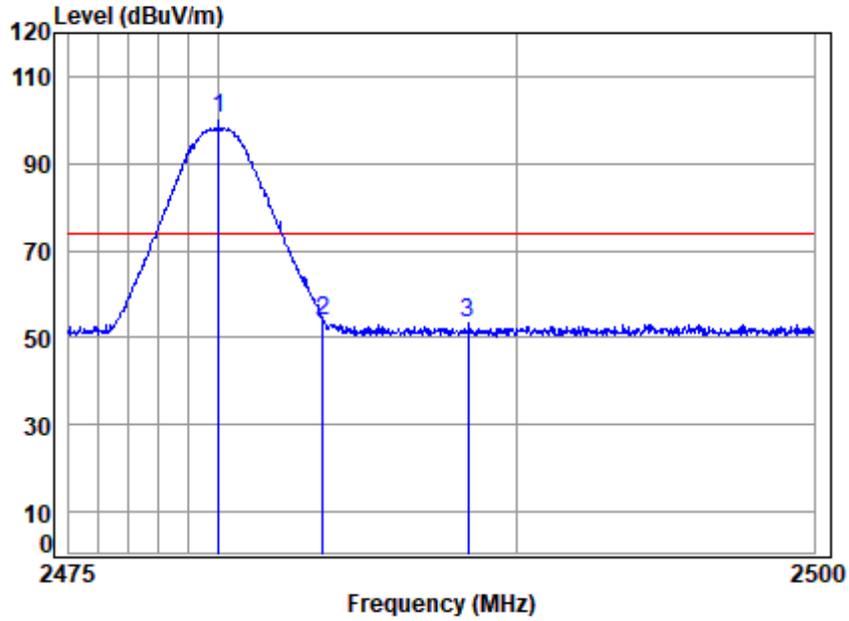
Site : chamber
Condition: 3m HORIZONTAL
Job No : 21810AT
Mode : 2480 Band edge
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2480.000	4.49	29.06	40.47	104.49	97.57	74.00	23.57 peak
2	2483.500	4.49	29.07	40.47	59.79	52.88	74.00	-21.12 peak
3	2497.740	4.52	29.10	40.47	59.90	53.05	74.00	-20.95 peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 21810AT
 Mode : 2480 Band edge
 Note : BLE

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2480.000	4.49	29.06	40.47	107.07	100.15	74.00	26.15 peak
2 2483.500	4.49	29.07	40.47	60.78	53.87	74.00	-20.13 peak
3 2488.369	4.50	29.08	40.47	60.06	53.17	74.00	-20.83 peak



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7.7 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

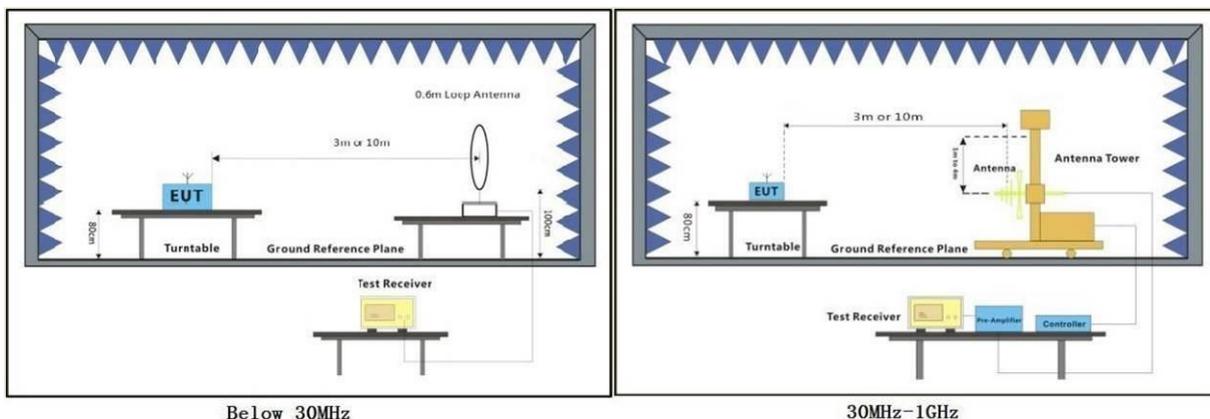
7.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.8 °C Humidity: 57.9 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

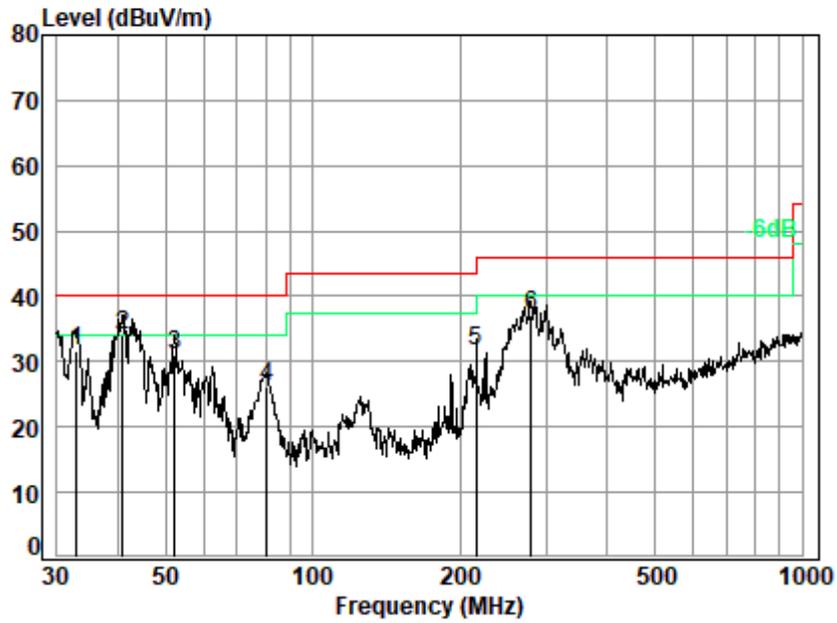
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 02; Polarity: Horizontal



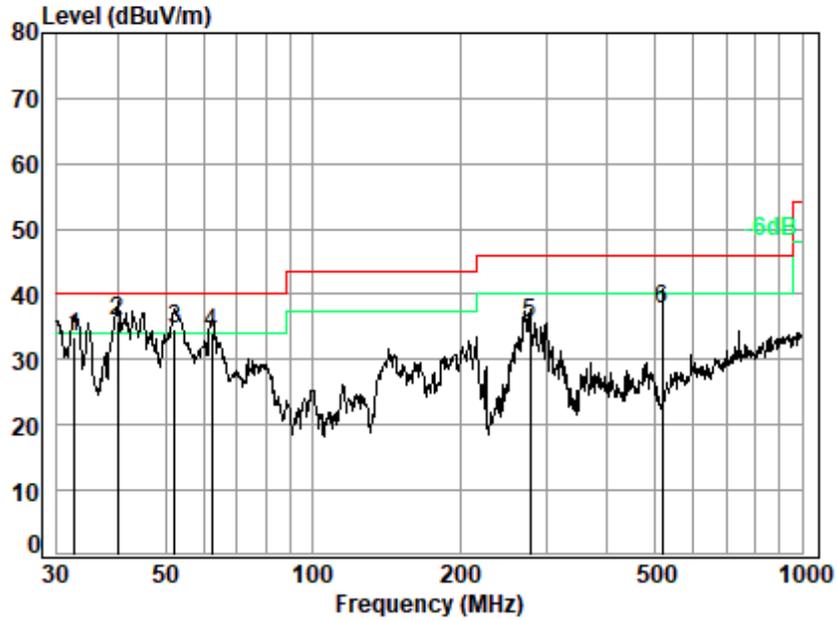
Site : chamber
Condition: 3m HORIZONTAL
Job No. : 21810AT
Test mode: 02

	Ant	Cable	Preamp	Read	Limit	Over			
Freq	Factor	Loss	Factor	Level	Level	Line	Limit		
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	32.86	21.24	0.80	27.50	37.22	31.76	40.00	-8.24	QP
2	q 40.84	17.74	0.81	27.48	43.03	34.10	40.00	-5.90	QP
3	52.21	13.50	0.95	27.46	44.06	31.05	40.00	-8.95	QP
4	80.64	12.14	1.40	27.42	40.10	26.22	40.00	-13.78	QP
5	216.02	16.60	2.12	26.91	39.79	31.60	46.00	-14.40	QP
6	279.04	18.42	2.18	26.75	43.38	37.23	46.00	-8.77	QP



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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 21810AT
Test mode: 02

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.63	21.31	0.80	27.50	38.83	33.44	40.00	-6.56 QP
2 q	39.85	18.09	0.80	27.48	44.42	35.83	40.00	-4.17 QP
3	52.21	13.50	0.95	27.46	47.78	34.77	40.00	-5.23 QP
4	62.21	12.97	1.12	27.44	47.54	34.19	40.00	-5.81 QP
5	278.07	18.44	2.18	26.75	41.73	35.60	46.00	-10.40 QP
6	519.06	24.57	2.62	27.65	38.20	37.74	46.00	-8.26 QP



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7.8 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

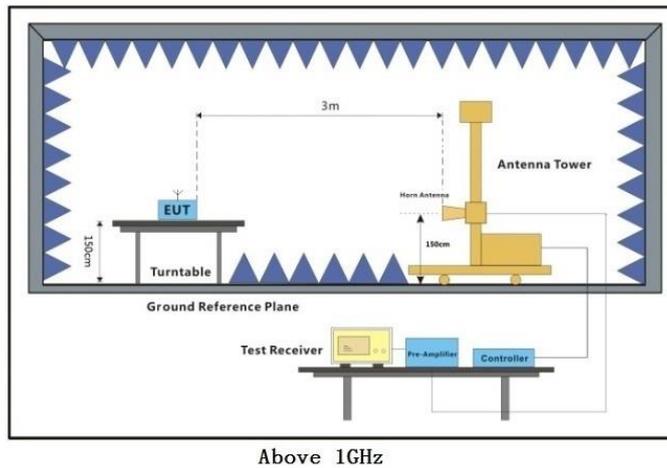
7.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 53.2 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



7.8.4 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.

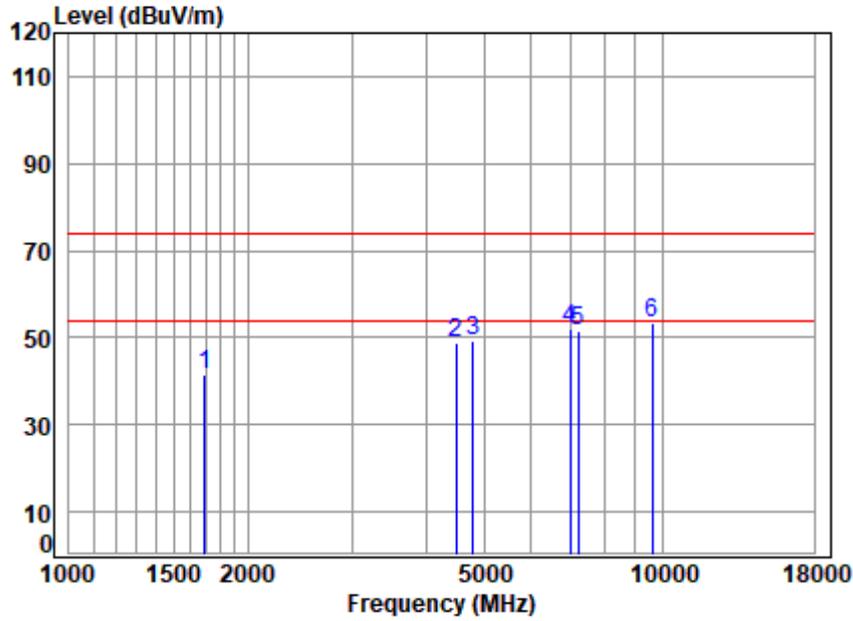
Remark:

- 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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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



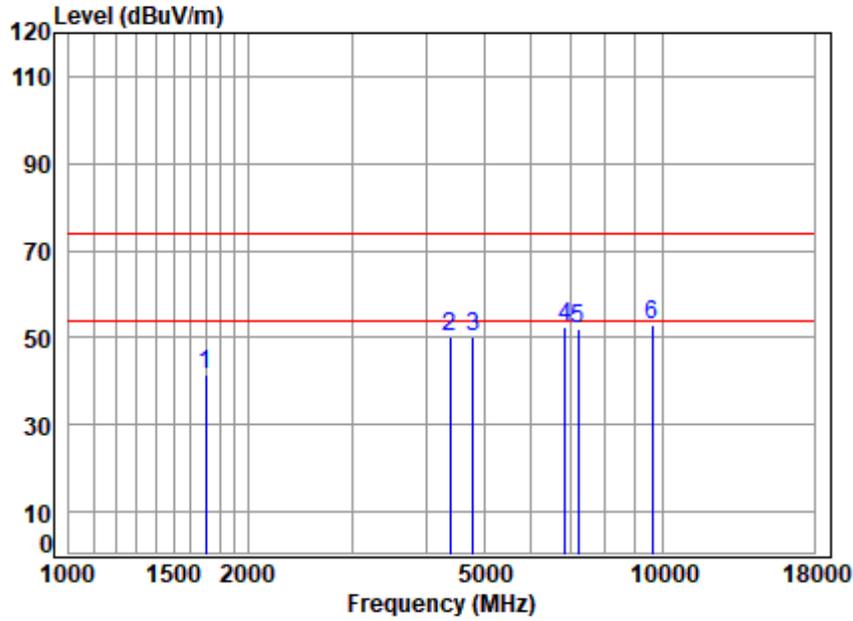
Site : chamber
Condition: 3m HORIZONTAL
Job No : 21810AT
Mode : 2402 TX SE
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1692.231	3.42	26.66	40.06	51.34	41.36	74.00	-32.64 peak
2	4482.150	6.74	32.99	41.86	51.07	48.94	74.00	-25.06 peak
3	4804.000	7.10	33.62	42.14	50.75	49.33	74.00	-24.67 peak
4	6974.982	8.53	35.46	41.72	49.87	52.14	74.00	-21.86 peak
5	7206.000	8.74	35.67	41.50	48.70	51.61	74.00	-22.39 peak
6	9608.000	10.81	37.34	37.76	42.77	53.16	74.00	-20.84 peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



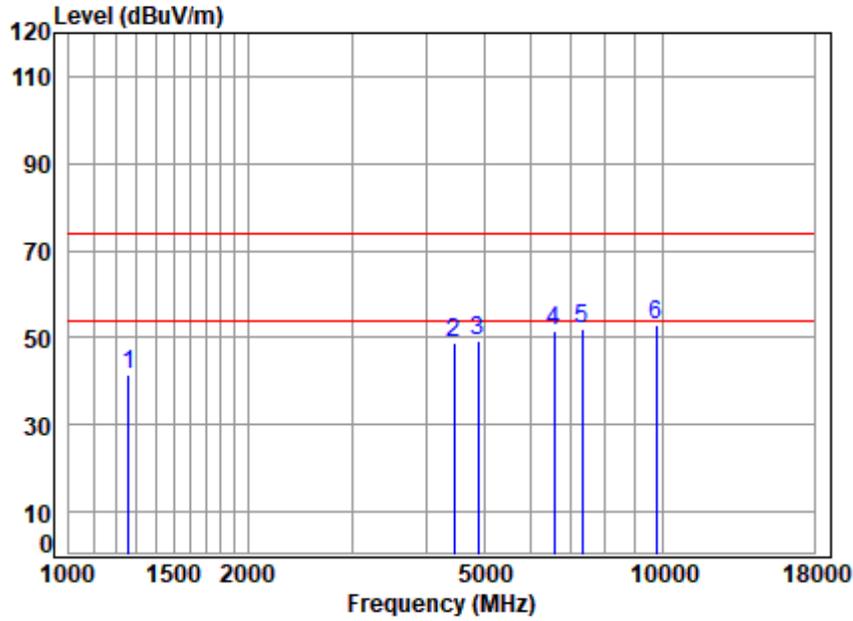
Site : chamber
Condition: 3m VERTICAL
Job No : 21810AT
Mode : 2402 TX SE
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.43	26.69	40.06	51.33	41.39	74.00	-32.61	peak
2	4392.376	6.66	32.92	41.78	52.53	50.33	74.00	-23.67	peak
3	4804.000	7.10	33.62	42.14	51.48	50.06	74.00	-23.94	peak
4	6855.063	8.47	35.25	41.80	50.58	52.50	74.00	-21.50	peak
5	7206.000	8.74	35.67	41.50	48.90	51.81	74.00	-22.19	peak
6	9608.000	10.81	37.34	37.76	42.52	52.91	74.00	-21.09	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



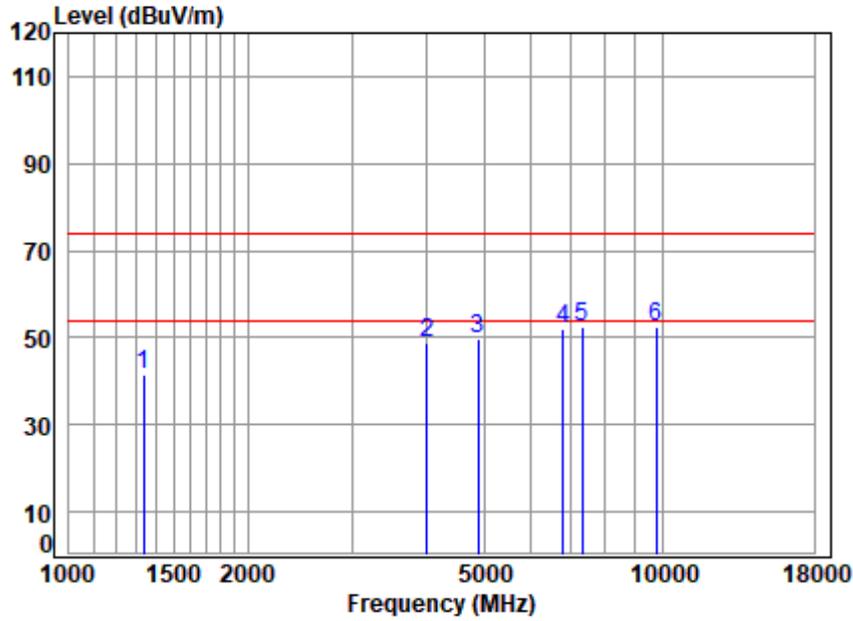
Site : chamber
Condition: 3m HORIZONTAL
Job No : 21810AT
Mode : 2440 TX SE
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.87	25.23	39.80	53.37	41.67	74.00	-32.33	peak
2	4456.315	6.72	32.97	41.84	51.17	49.02	74.00	-24.98	peak
3	4880.000	7.18	33.77	42.20	50.61	49.36	74.00	-24.64	peak
4	6564.209	8.31	34.72	41.99	50.66	51.70	74.00	-22.30	peak
5	7320.000	8.84	35.76	41.40	48.93	52.13	74.00	-21.87	peak
6	9760.000	10.76	37.41	37.50	42.07	52.74	74.00	-21.26	peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



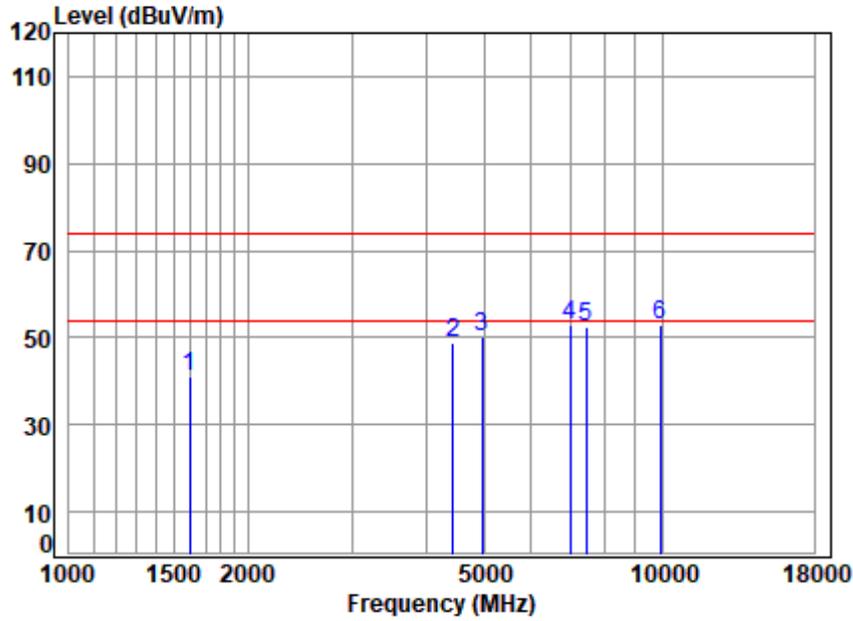
Site : chamber
Condition: 3m VERTICAL
Job No : 21810AT
Mode : 2440 TX SE
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.38	39.85	53.06	41.59	74.00	-32.41	peak
2	4015.929	6.30	32.61	41.42	51.54	49.03	74.00	-24.97	peak
3	4880.000	7.18	33.77	42.20	50.80	49.55	74.00	-24.45	peak
4	6795.879	8.44	35.14	41.83	50.30	52.05	74.00	-21.95	peak
5	7320.000	8.84	35.76	41.40	49.49	52.69	74.00	-21.31	peak
6	9760.000	10.76	37.41	37.50	41.63	52.30	74.00	-21.70	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



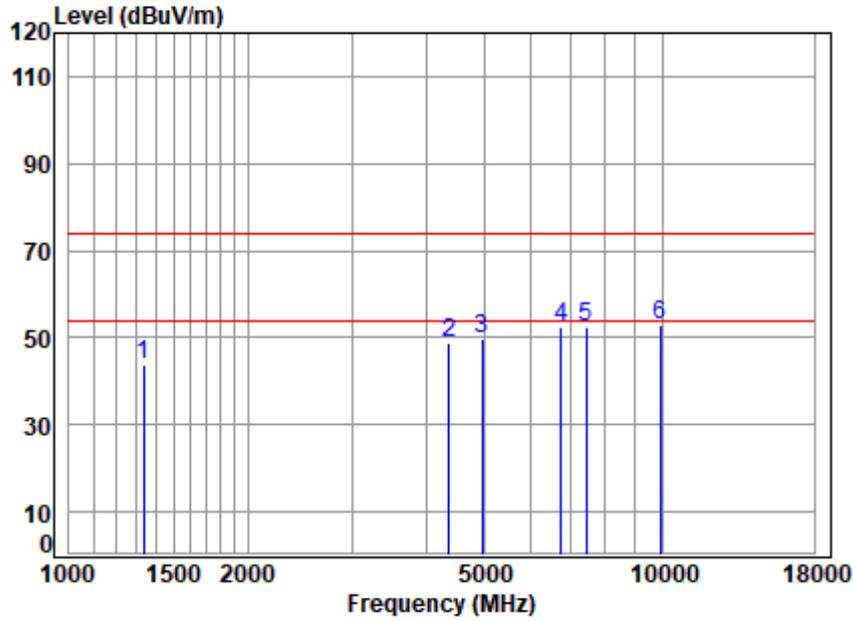
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21810AT
 Mode : 2480 TX SE
 Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	51.53	41.07	74.00	-32.93	peak
2	4430.628	6.70	32.95	41.81	51.09	48.93	74.00	-25.07	peak
3	4960.000	7.26	33.92	42.27	51.13	50.04	74.00	-23.96	peak
4	6974.982	8.53	35.46	41.72	50.76	53.03	74.00	-20.97	peak
5	7440.000	8.96	35.85	41.29	48.87	52.39	74.00	-21.61	peak
6	9920.000	10.71	37.47	37.23	42.02	52.97	74.00	-21.03	peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 21810AT
Mode : 2480 TX SE
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.38	39.85	55.36	43.89	74.00	-30.11	peak
2	4367.058	6.64	32.90	41.75	51.23	49.02	74.00	-24.98	peak
3	4960.000	7.26	33.92	42.27	50.89	49.80	74.00	-24.20	peak
4	6737.207	8.41	35.04	41.87	50.86	52.44	74.00	-21.56	peak
5	7440.000	8.96	35.85	41.29	49.04	52.56	74.00	-21.44	peak
6	9920.000	10.71	37.47	37.23	41.85	52.80	74.00	-21.20	peak



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8 Emission Test Results

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

Test Requirement: 47 CFR Part 15, Subpart C 15.207

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

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

8.1.1 E.U.T. Operation

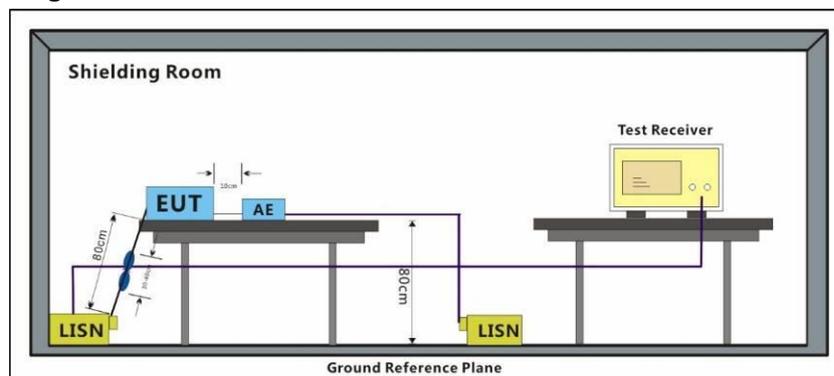
Operating Environment:

Temperature: 24.0 °C Humidity: 49.9 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

8.1.3 Test Setup Diagram



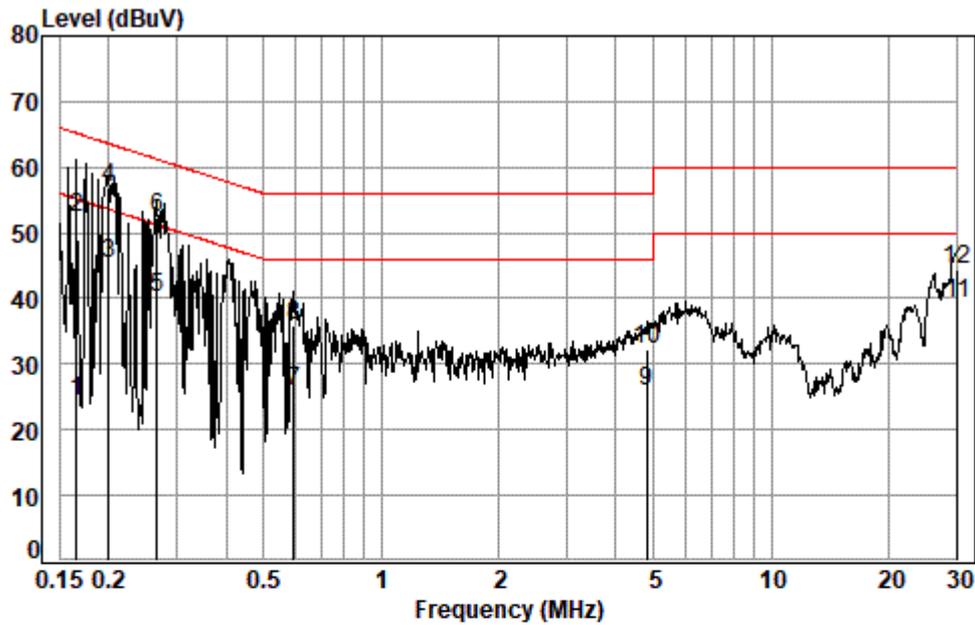
8.1.4 Measurement Procedure and Data

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

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



Test Mode: 02; Line: Live line; Modulation:GFSK; Channel:Low



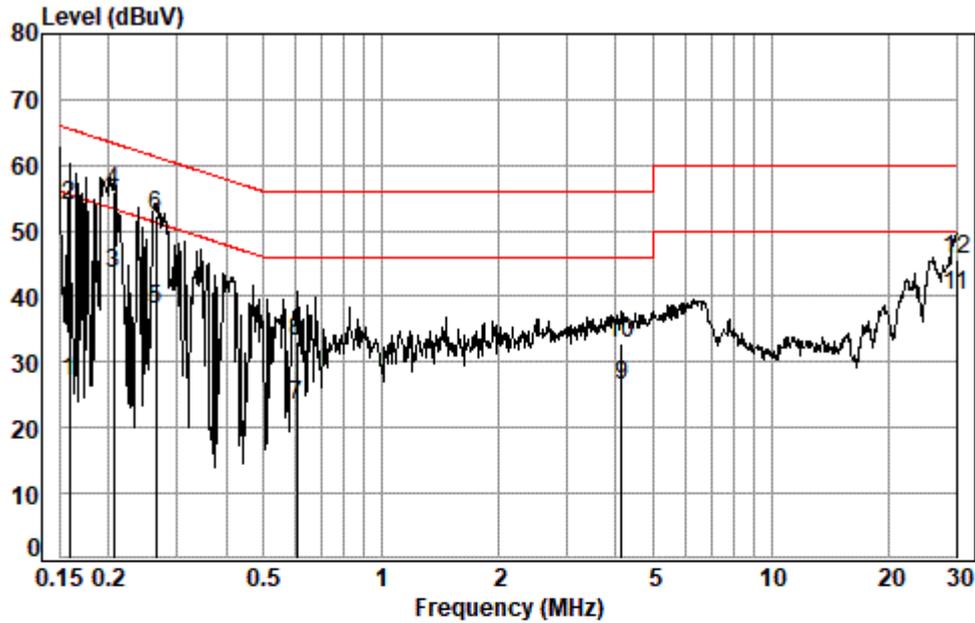
Site : Shielding Room
Condition: Line
Job No. : 21810AT
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1659	0.03	9.71	14.53	24.27	55.16	-30.89	Average
2	0.1659	0.03	9.71	42.44	52.18	65.16	-12.98	QP
3	0.2007	0.04	9.72	35.56	45.32	53.58	-8.26	Average
4	0.2007	0.04	9.72	47.20	56.96	63.58	-6.62	QP
5	0.2658	0.05	9.74	30.32	40.11	51.25	-11.14	Average
6	0.2658	0.05	9.74	42.59	52.38	61.25	-8.87	QP
7	0.5979	0.08	9.77	15.93	25.78	46.00	-20.22	Average
8	0.5979	0.08	9.77	26.10	35.95	56.00	-20.05	QP
9	4.7969	0.16	9.92	15.64	25.72	46.00	-20.28	Average
10	4.7969	0.16	9.92	22.29	32.37	56.00	-23.63	QP
11	30.0000	0.21	11.11	28.02	39.34	50.00	-10.66	Average
12	30.0000	0.21	11.11	33.01	44.33	60.00	-15.67	QP



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Test Mode: 02; Line: Neutral Line; Modulation:GFSK; Channel:Low



Site : Shielding Room
Condition: Neutral
Job No. : 21810AT
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.03	9.71	17.25	26.99	55.52	-28.53	Average
2	0.1590	0.03	9.71	43.98	53.72	65.52	-11.80	QP
3	0.2061	0.04	9.72	33.84	43.60	53.36	-9.76	Average
4	0.2061	0.04	9.72	46.25	56.01	63.36	-7.35	QP
5	0.2644	0.05	9.73	28.23	38.01	51.29	-13.28	Average
6	0.2644	0.05	9.73	42.55	52.33	61.29	-8.96	QP
7	0.6075	0.08	9.77	13.70	23.55	46.00	-22.45	Average
8	0.6075	0.08	9.77	23.16	33.01	56.00	-22.99	QP
9	4.1356	0.15	9.89	16.57	26.61	46.00	-19.39	Average
10	4.1356	0.15	9.89	22.66	32.70	56.00	-23.30	QP
11	29.8415	0.21	10.96	29.03	40.20	50.00	-9.80	Average
12	29.8415	0.21	10.96	34.31	45.48	60.00	-14.52	QP



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9 Test Setup Photo

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



11 Appendix

1. Duty Cycle

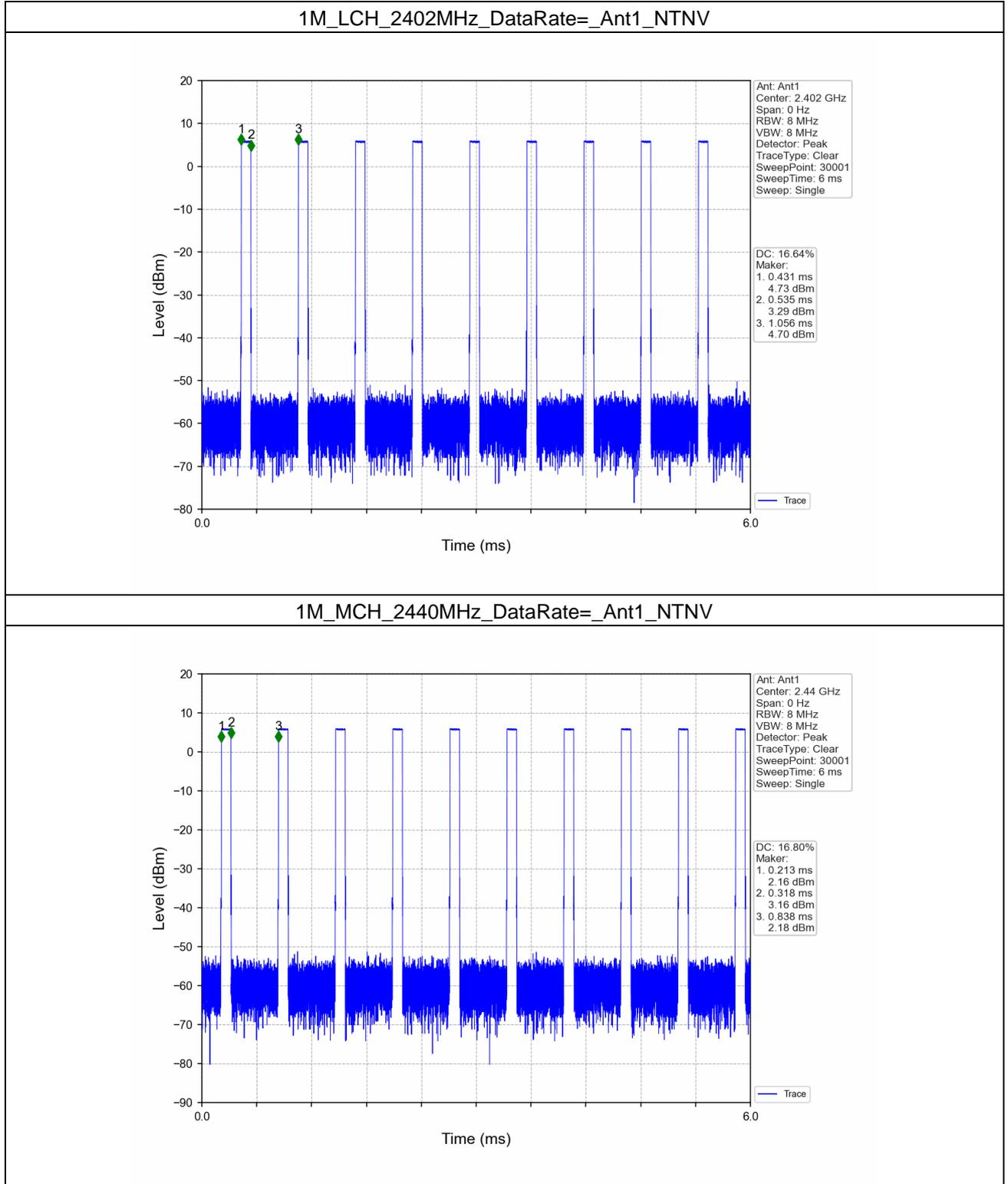
1.1 Ant1

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	0.10	0.62	16.64	7.79	0.00
		2440	0.11	0.62	16.80	7.75	0.00
		2480	0.10	0.62	16.64	7.79	0.00

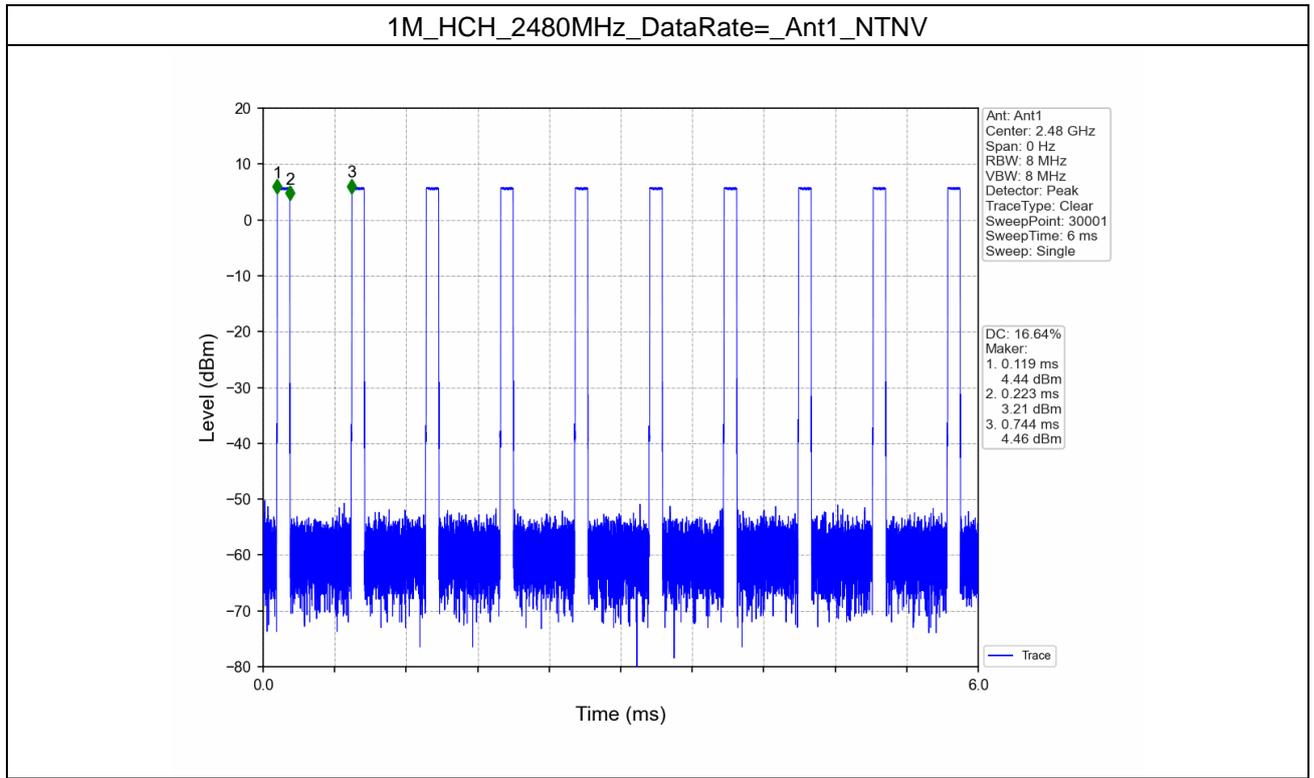


1.1.2 Test Graph



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2. Bandwidth

2.1 6dB BW

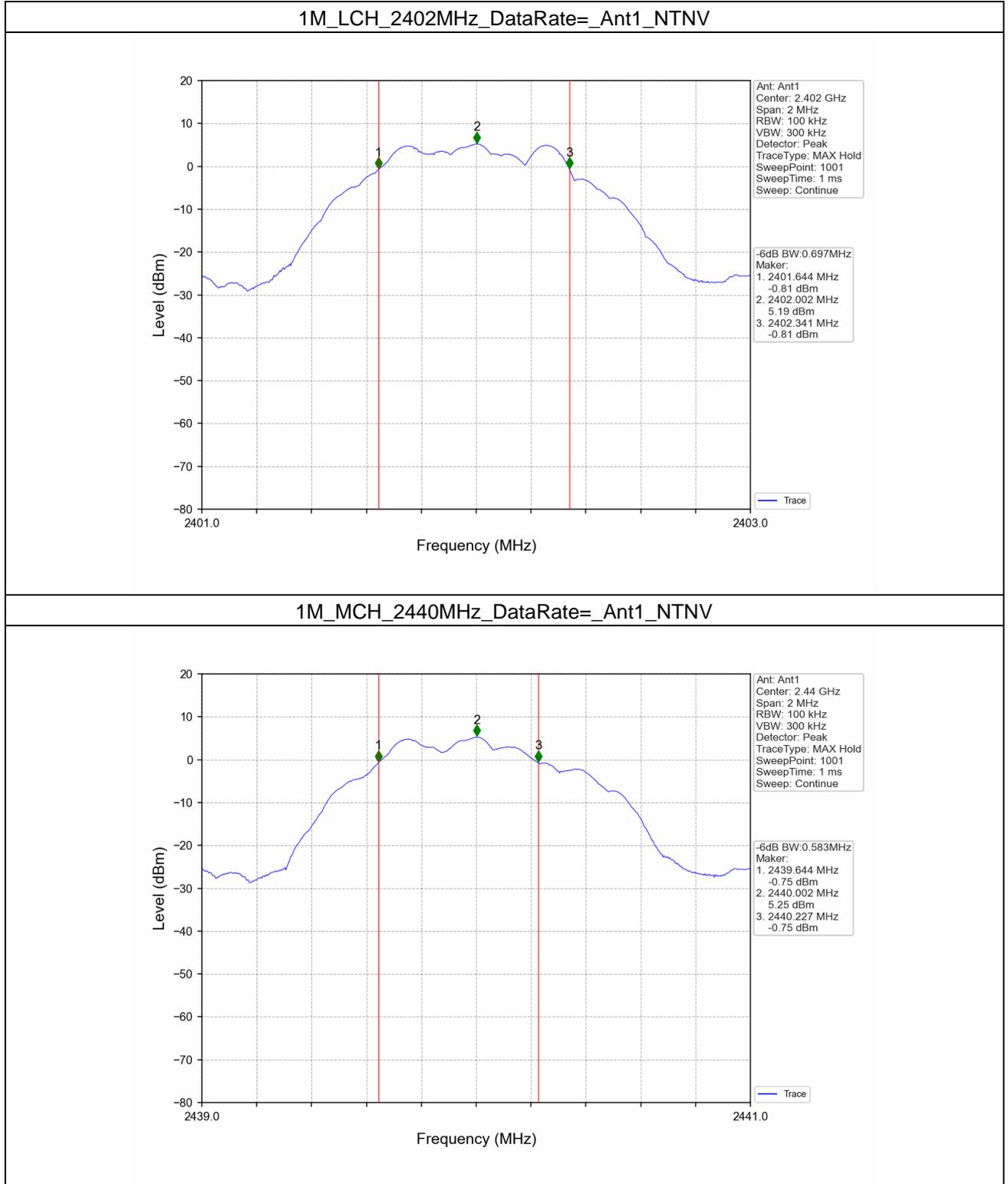
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)	Limit	Verdict
1M	SISO	2402	1	0.70	>=0.5	Pass
		2440	1	0.58	>=0.5	Pass
		2480	1	0.71	>=0.5	Pass



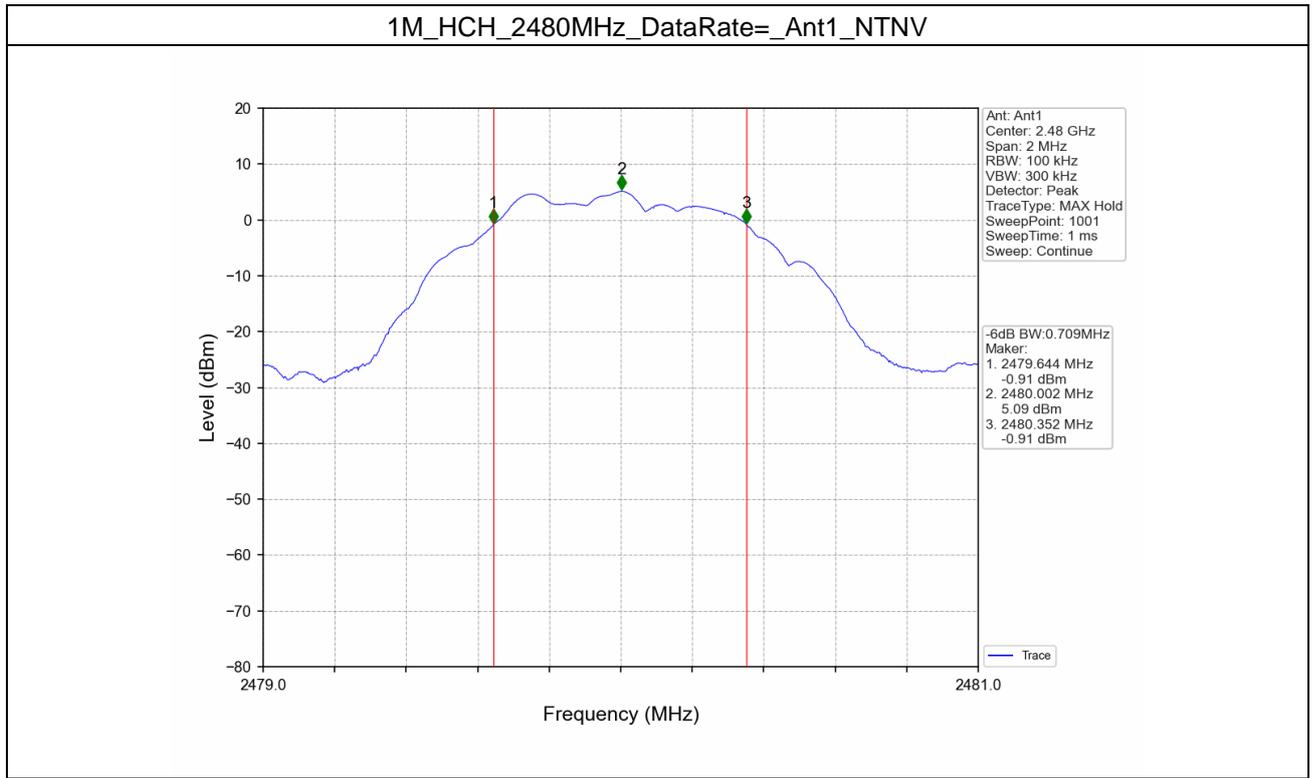
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2.2.2 Test Graph



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3. Maximum Conducted Output Power

3.1 Power

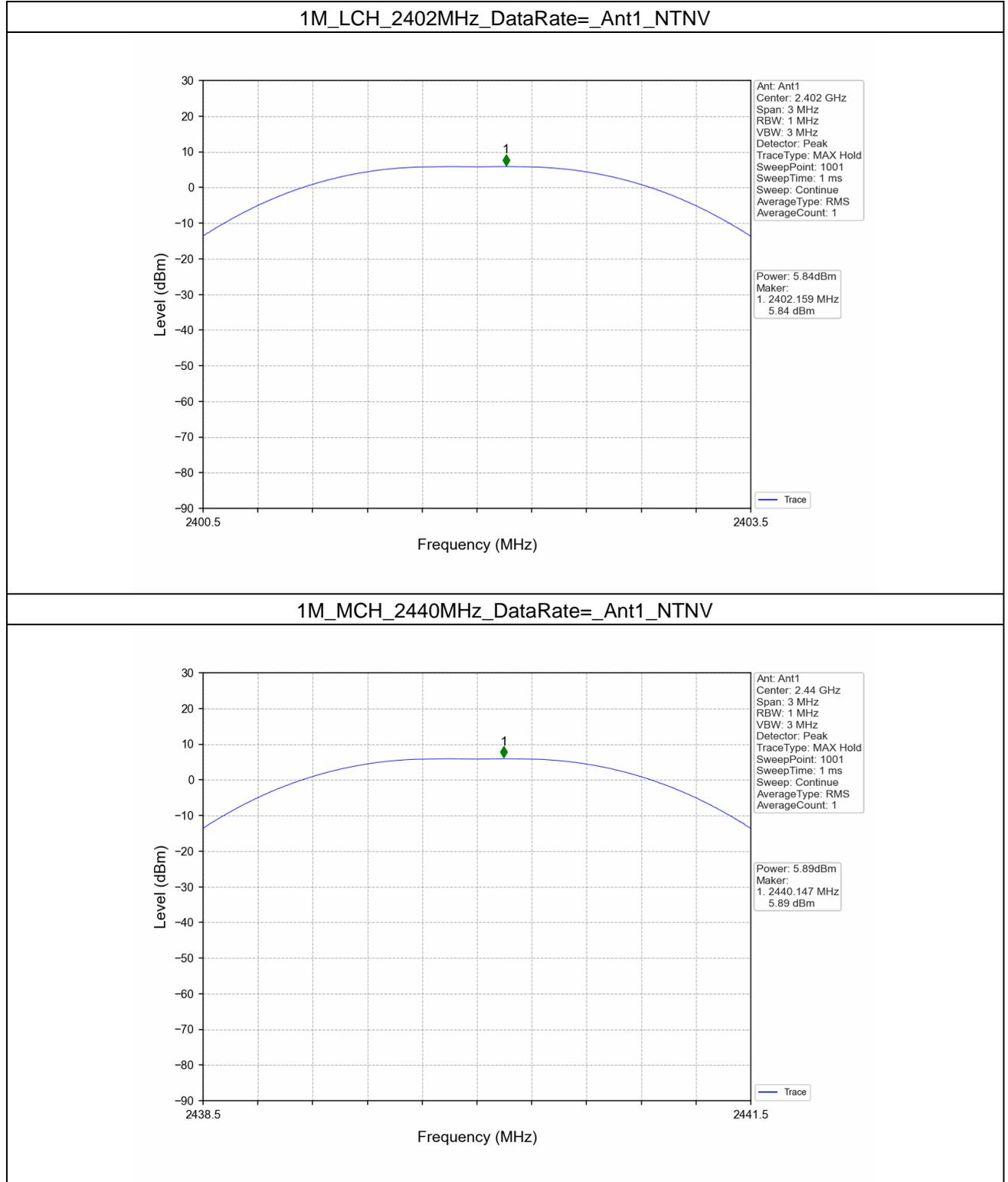
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)		Verdict
			Ant1	Limit	
1M	SISO	2402	5.84	<=30	Pass
		2440	5.89	<=30	Pass
		2480	5.73	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

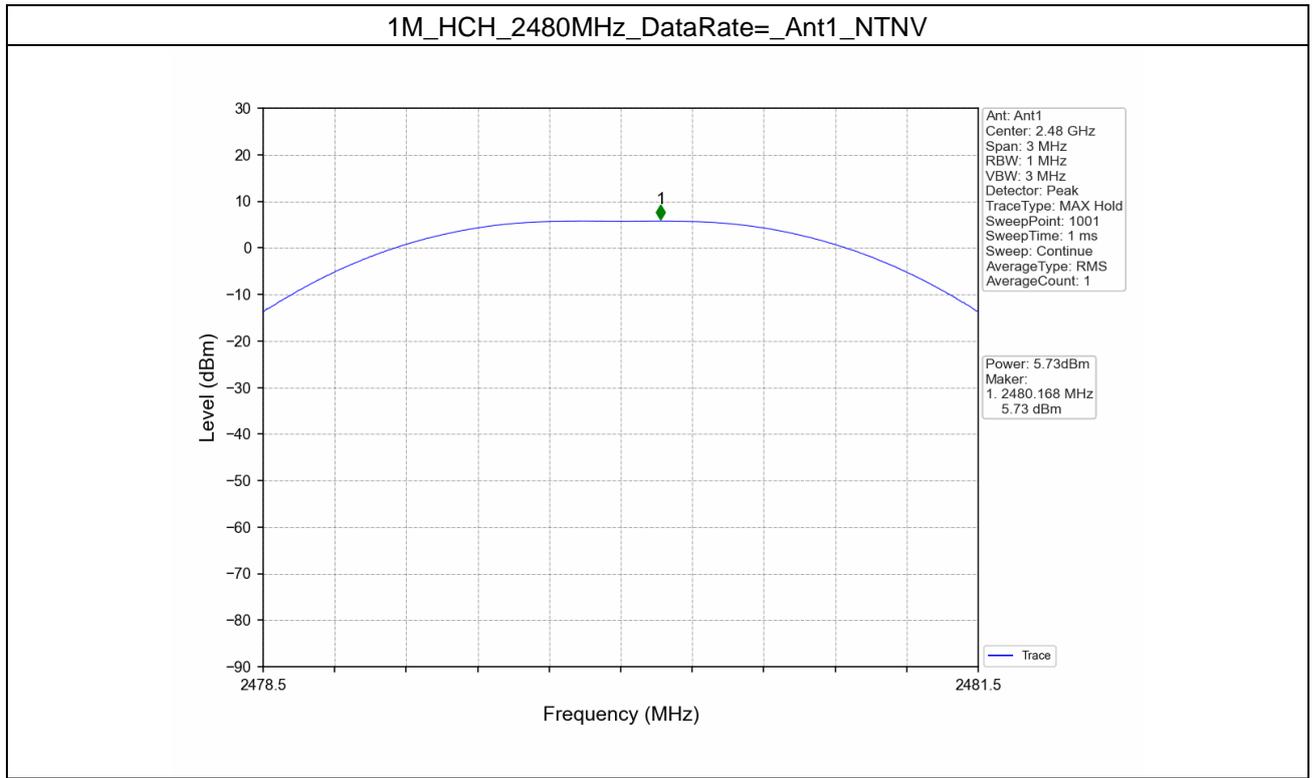


3.1.2 Test Graph



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4. Maximum Power Spectral Density

4.1 PSD

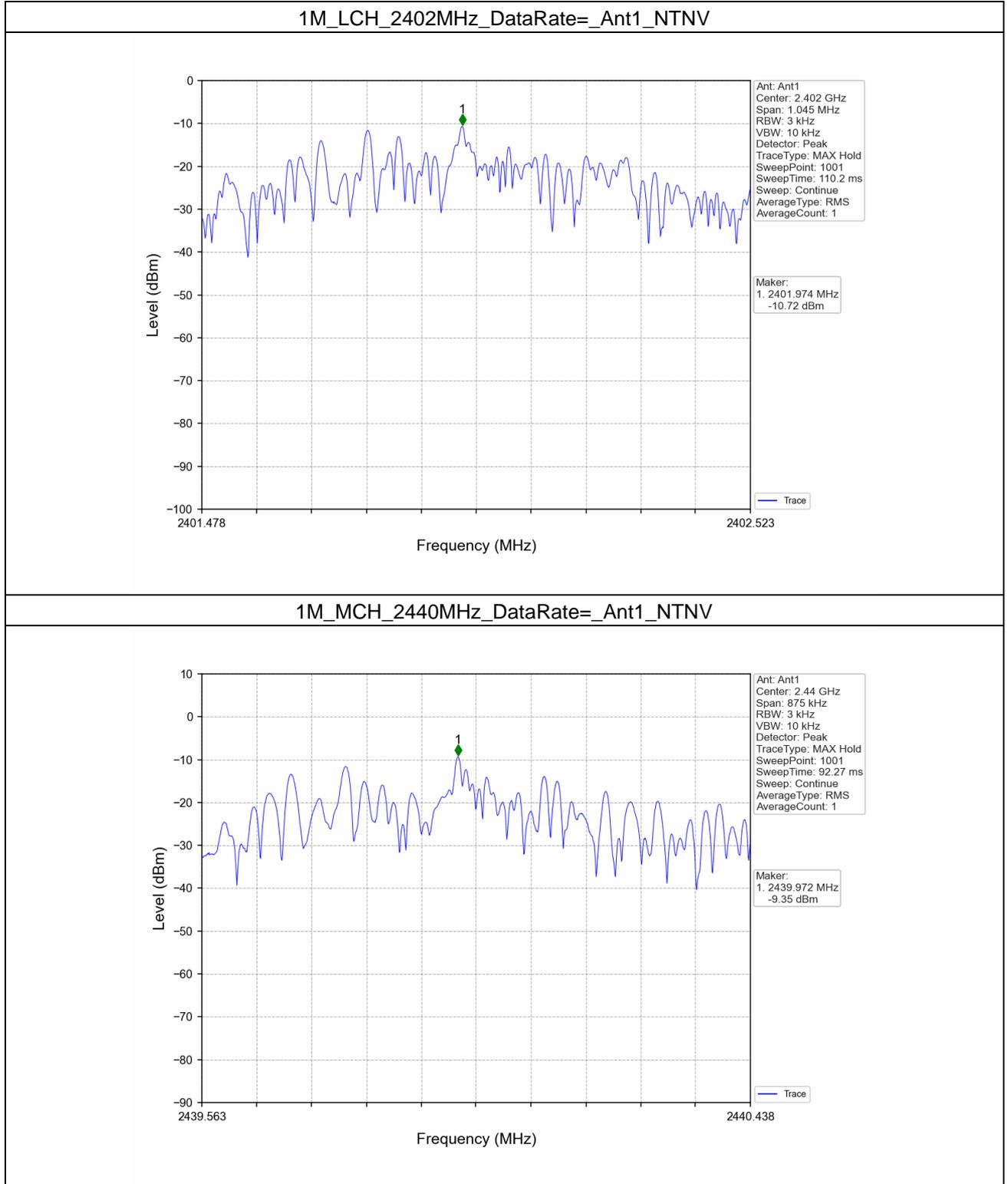
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1M	SISO	2402	-10.72	<=8	Pass
		2440	-9.35	<=8	Pass
		2480	-12.44	<=8	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

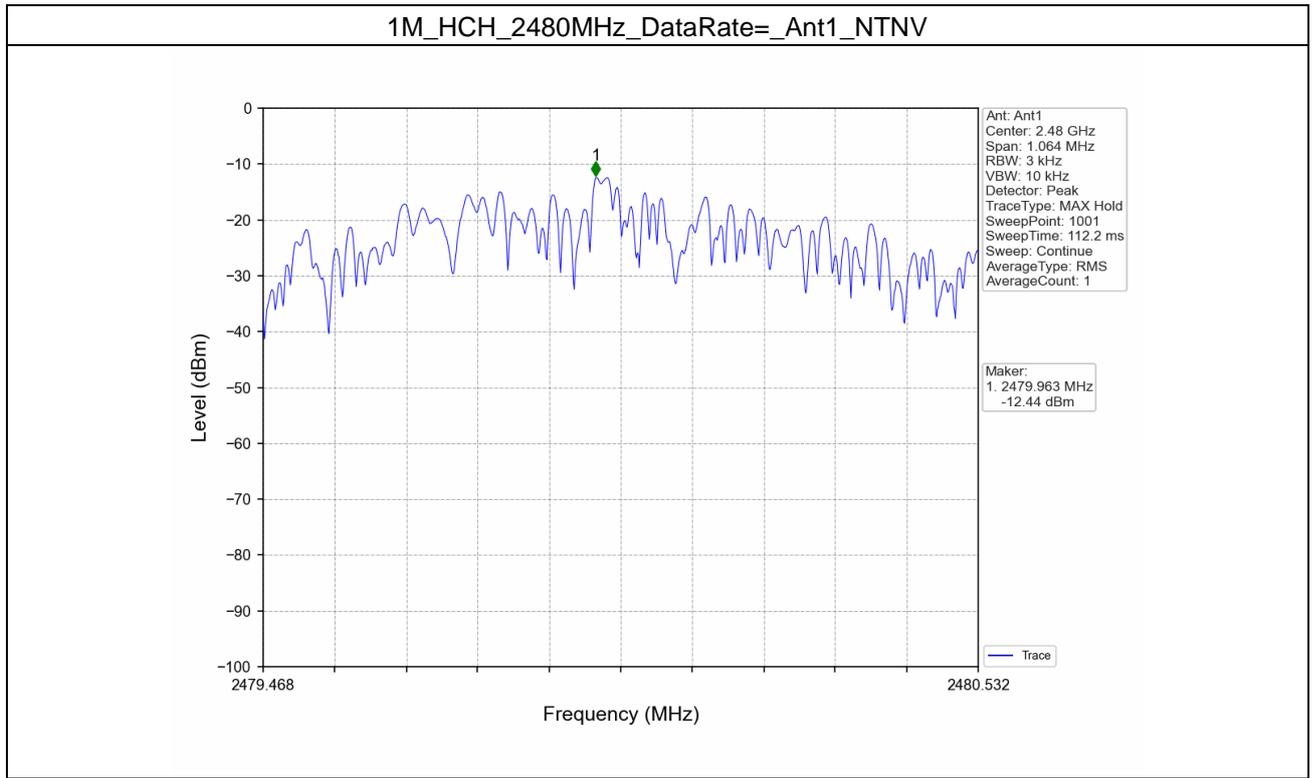


4.1.2 Test Graph



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

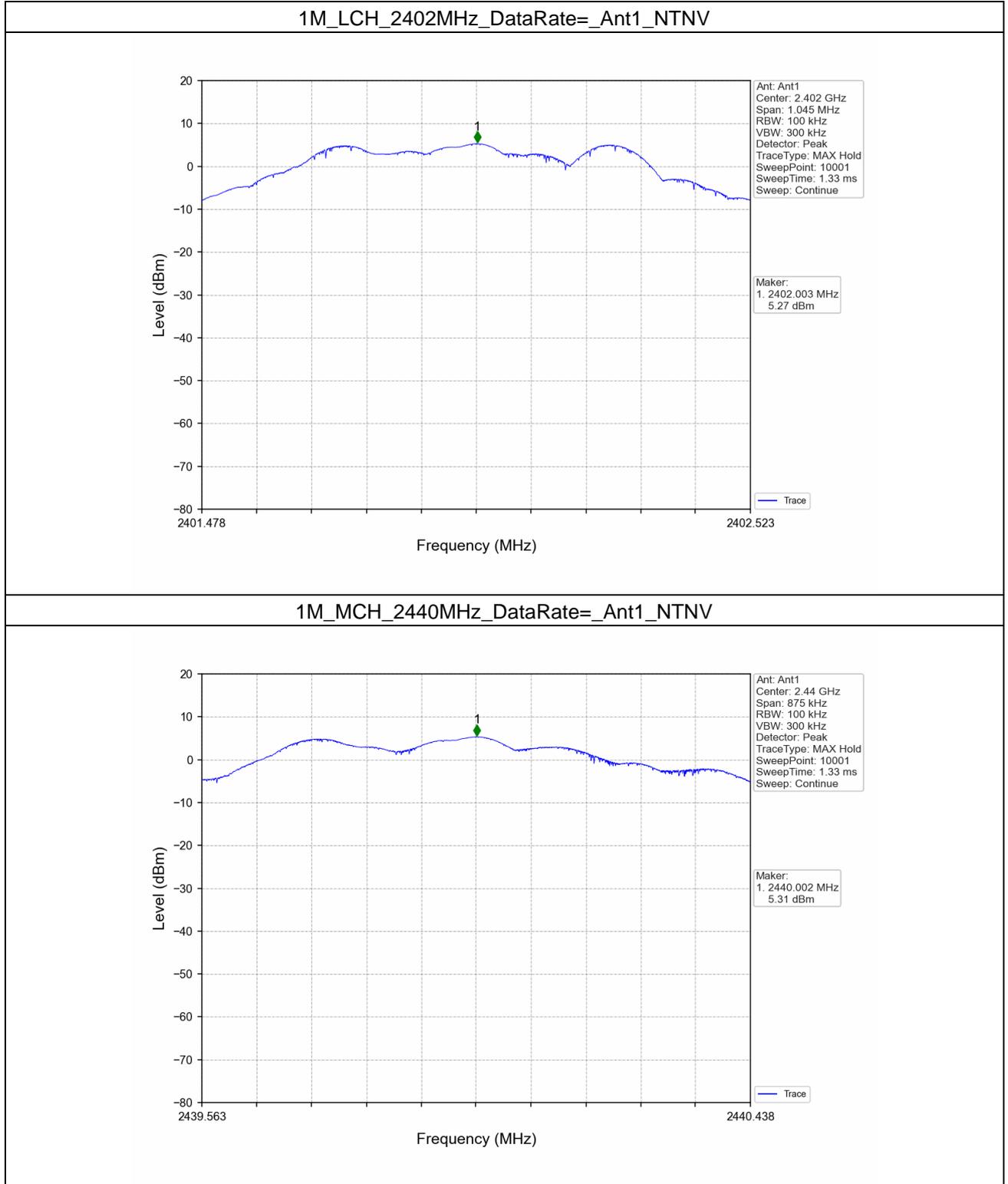
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	5.27
		2440	1	5.31
		2480	1	5.15

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

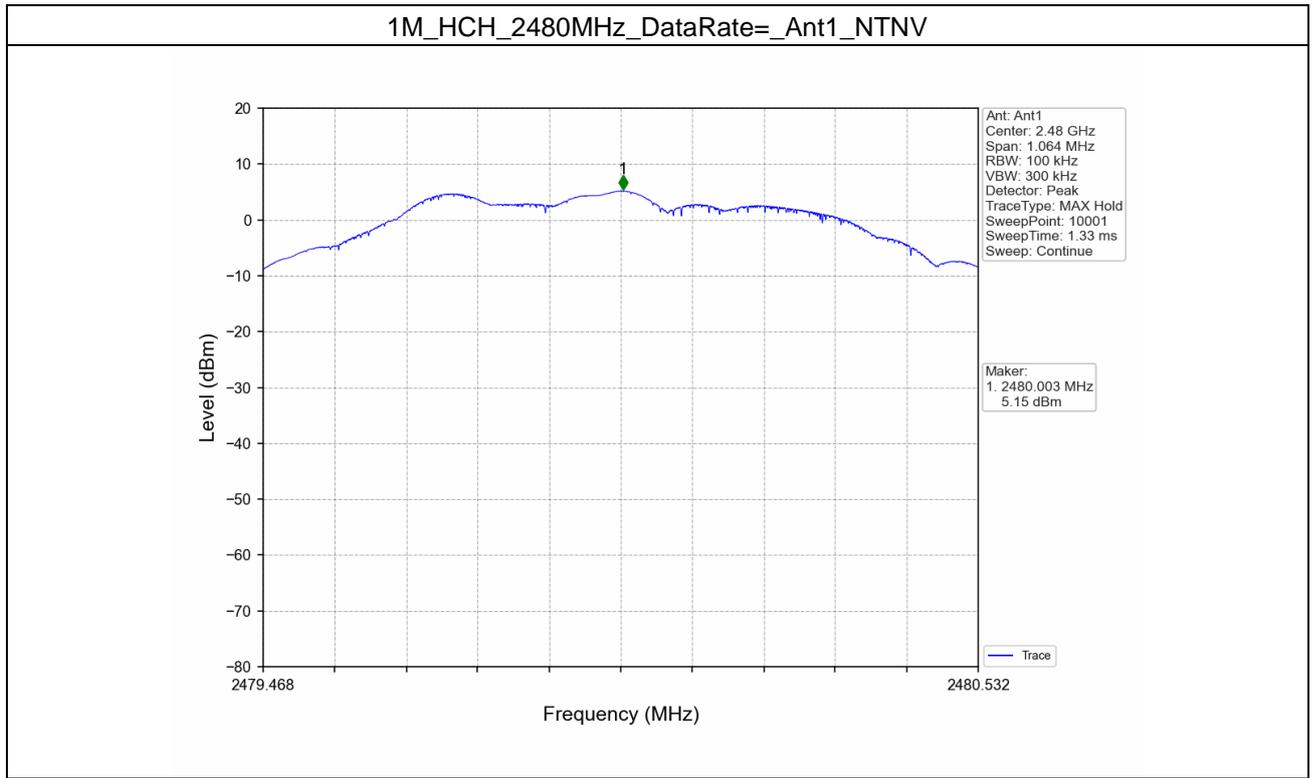


5.1.2 Test Graph



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5.2 CSE

5.2.1 Test Result

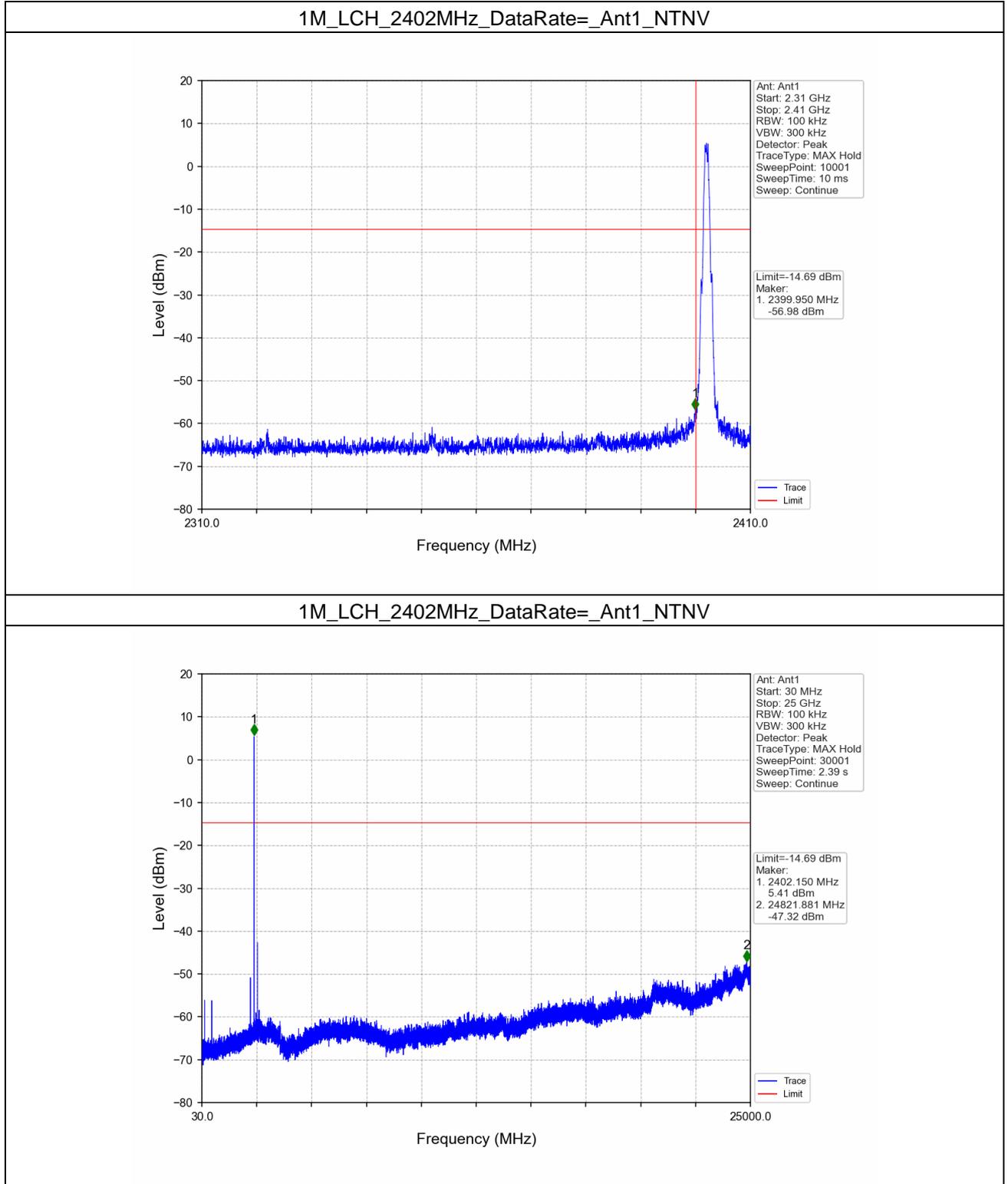
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.31	-14.69	Pass
		2440	1	5.31	-14.69	Pass
		2480	1	5.31	-14.69	Pass

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



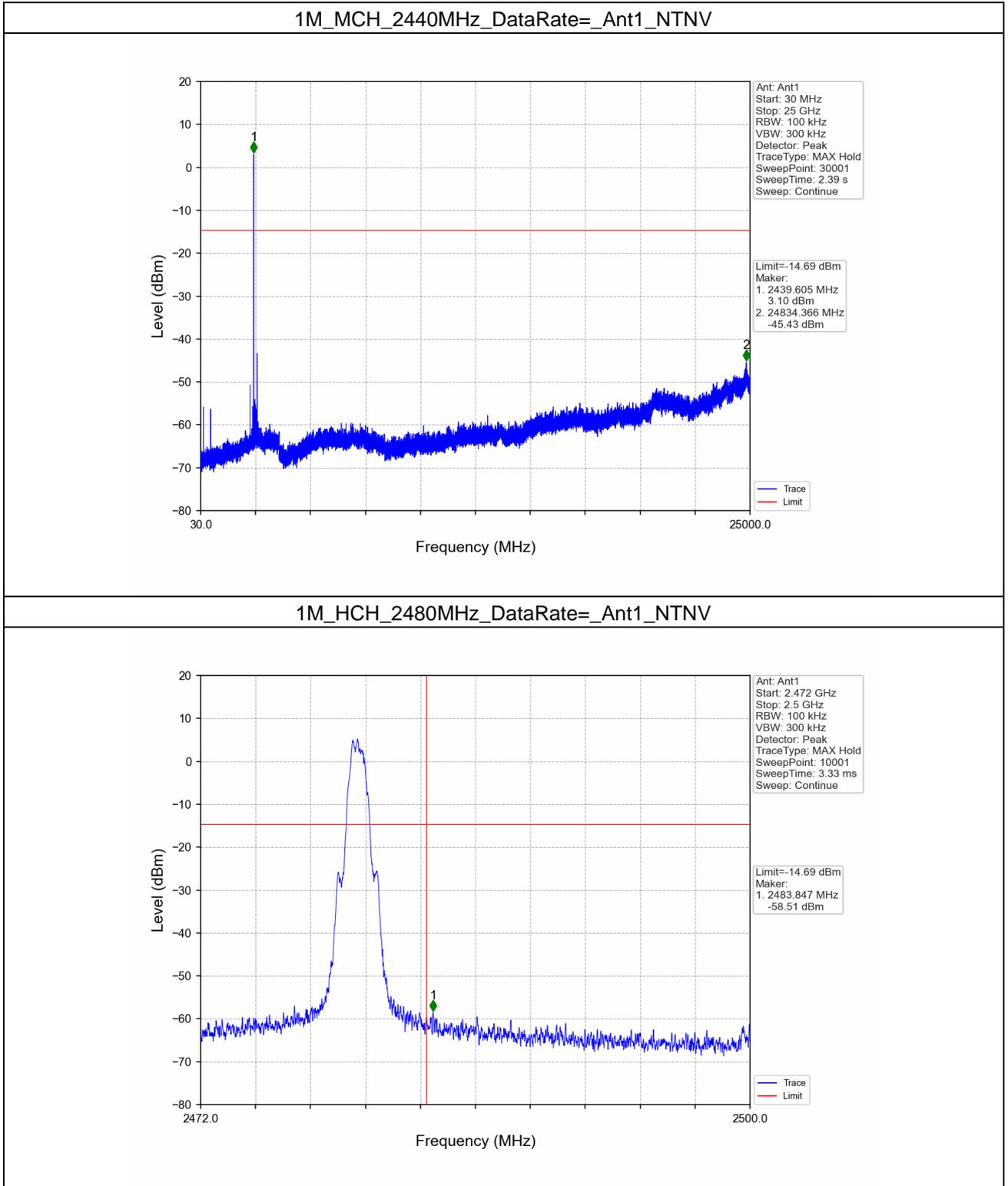
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5.2.2 Test Graph

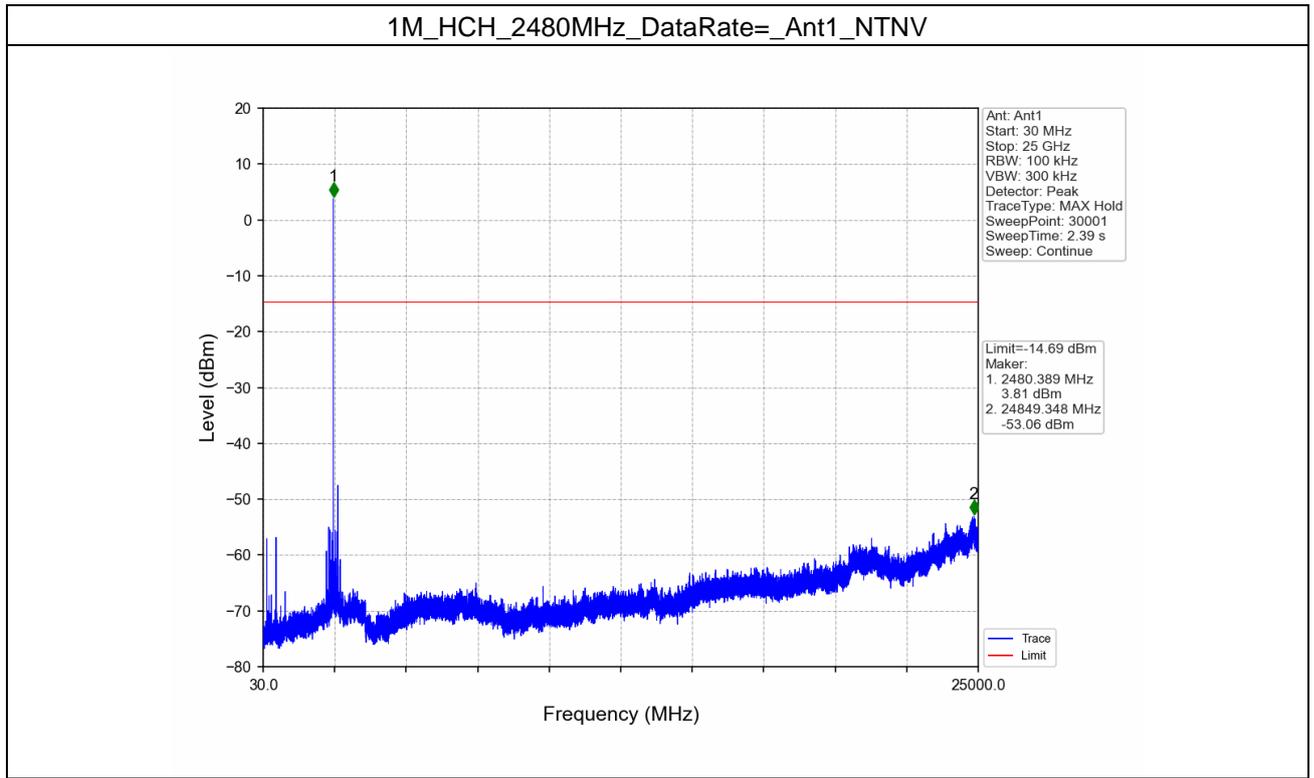


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