

Report No.: SZCR210402038704

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TEST REPORT

Application No.: SZCR2104020387AT

Applicant: Fortinet Inc.

Address of Applicant: 899 Kifer Road, Sunnyvale, California, 94086 United States

Manufacturer: Fortinet, Inc.

Address of Manufacturer: 899 Kifer Road, Sunnyvale, California, 94086 United States

Equipment Under Test (EUT):

EUT Name: Secured Network Extension Device

Model No.: FEX-511F, FortiExtender 511Fxxxxxx, FORTIEXTENDER-511Fxxxxxx,

FEX-511Fxxxxxx (where "x" can be "0-9", or "A-Z", or "-", or blank for

marketing purposes or software changes only and no Safety or EMC related

changes) 4

Trade Mark: FORTINET **FCC ID:** TVE-251M01

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

Date of Receipt: 2021-04-07

Date of Test: 2021-07-06 to 2021-07-09

Date of Issue: 2021-07-14

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2021-07-14		Original		

Authorized for issue by:		
	Damon Sw	
	Damon Su/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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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		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		
Radiated Emissions which fall in the restricted bands	47.CED Dow 45	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	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 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			

Declaration of EUT Family Grouping:

Model No.: FEX-511F, FortiExtender 511Fxxxxxx, FORTIEXTENDER-511Fxxxxxx, FEX-511Fxxxxxx (where "x" can be "0-9", or "A-Z", or "-", or blank for marketing purposes or software changes only and no Safety or EMC related changes)

Only the model FEX-511F was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on marketing purposes or software with on EMC related changes.

The EUT support 2 type power supply(AC adapter, POE adapter), only record the worst case(AC adapter) in the report.



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General Information

4.1 Details of E.U.T.

Power supply:	DC 12V by adapter or POE adapter.
i ower supply.	
	Adapter Model: WA-30P12R
	Input: AC 100-240V 50/60Hz
	Output: DC 12V 2.5A
Bluetooth Version:	V5.0
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Date Rate:	1Mbps, 2Mbps
Number of Channels:	40
Antenna Type:	PIFA Antenna
Antenna Gain:	3.5dBi

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
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

The Ulab (lab Uncertainty) is less than Ucispr (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



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	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	SEM024-01	2021-07-09	2022-07-08	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25	

Conducted Peak Output Power						
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	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23	
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	

Minimum 6dB Bandwidth					
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
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
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

Power Spectrum Density					
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
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
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



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Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07
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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

Conducted Band Edges Measurement					
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
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
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

Conducted Spurious Emissions					
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
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
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



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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					
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)

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.5dBi

Antenna location: Refer to internal photo.





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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)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	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

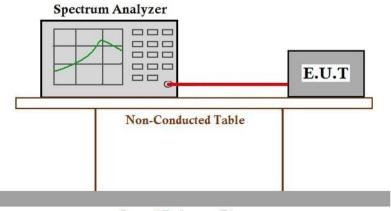
Operating Environment:

Temperature: 21.4 °C Humidity: 46.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



Ground Reference Plane



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7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

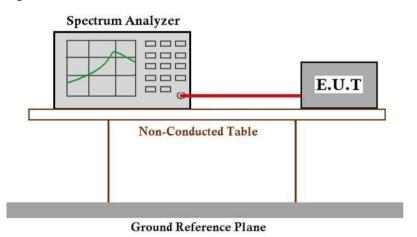
Operating Environment:

Temperature: 21.4 °C Humidity: 46.6 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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

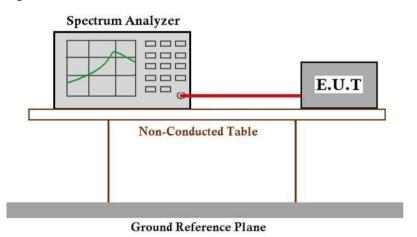
Operating Environment:

Temperature: 21.4 °C Humidity: 46.6 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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 Radiated Emissions which fall in the restricted bands

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

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.

7.4.1 E.U.T. Operation

Operating Environment:

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

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.



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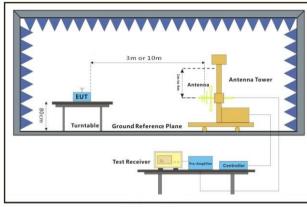
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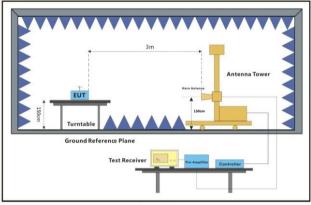


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7.4.3 Test Setup Diagram





30MHz-1GHz Above 1GHz

7.4.4 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.



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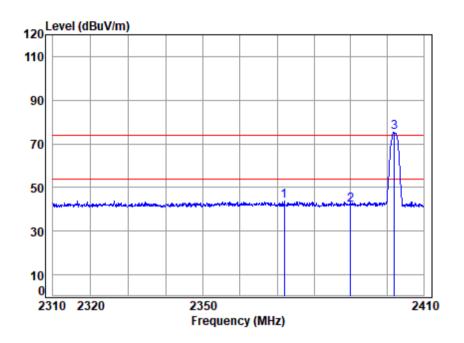


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1M

Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 20387AT/20388AT Mode : 2402 Band edge

Note : BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2371.902	4.31	28.49	40.41	51.61	44.00	74.00	-30.00	peak	
2	2390.000	4.34	28.52	40.42	49.60	42.04	74.00	-31.96	peak	
3	. 2402.000	4.36	28.54	40.43	82.74	75.21	74.00	1.21	peak	



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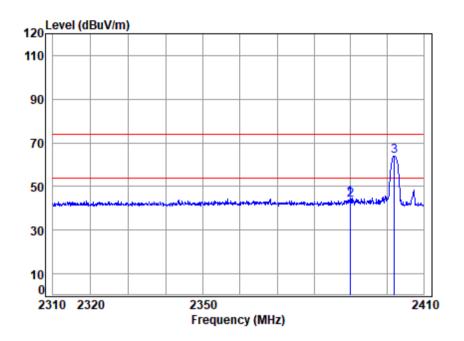
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20387AT/20388AT Mode : 2402 Band edge

Note : BLE 1M

> 1 2 3

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
									_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2389.761	4.34	28.52	40.42	52.12	44.56	74.00	-29.44	peak	
2390.000	4.34	28.52	40.42	51.40	43.84	74.00	-30.16	peak	
2402.000	4.36	28.54	40.43	71.48	63.95	74.00	-10.05	peak	



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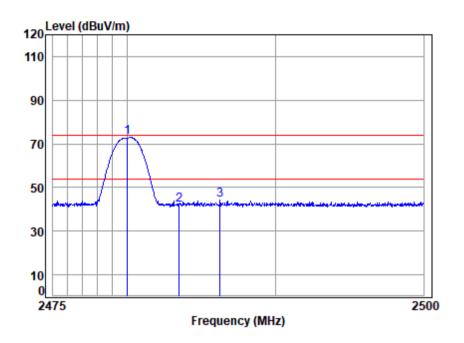
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Report No.: SZCR210402038704

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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 20387AT/20388AT Mode : 2480 Band edge

Note : BLE 1M

1 2 3

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2480.000	4.49	28.67	40.47	80.23	72.92	74.00	-1.08	peak	
2	2483.500	4.49	28.67	40.47	49.13	41.82	74.00	-32.18	peak	
;	2486.244	4.50	28.68	40.47	51.44	44.15	74.00	-29.85	peak	



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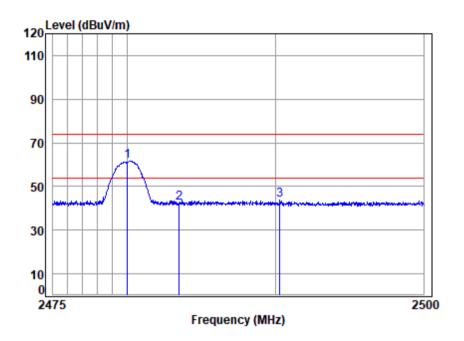
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20387AT/20388AT Mode : 2480 Band edge

Note : BLE 1M

> 1 2 3

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2400 000	4 40	20.67	40.47	60.00	64.60	74.00	40.00		
	2480.000	4.49	28.6/	40.47	68.99	61.68	74.00	-12.32	реак	
2	2483.500	4.49	28.67	40.47	49.52	42.21	74.00	-31.79	peak	
	2490 270	4 50	28 68	40 47	51 02	43 73	74 00	-30 27	neak	



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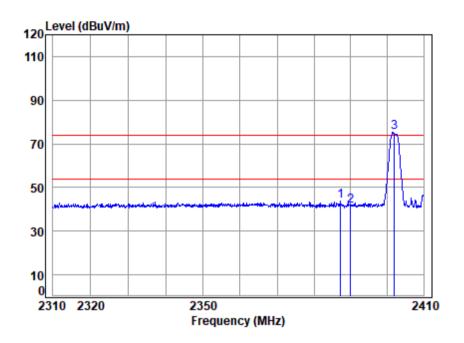


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2M

Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 20387AT/20388AT Mode : 2402 Band edge

Note : BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2387.230	4.34	28.51	40.42	51.15	43.58	74.00	-30.42	peak	
2	2390.000	4.34	28.52	40.42	49.20	41.64	74.00	-32.36	peak	
з.	2402.000	4.36	28.54	40.43	82.67	75.14	74.00	1.14	peak	



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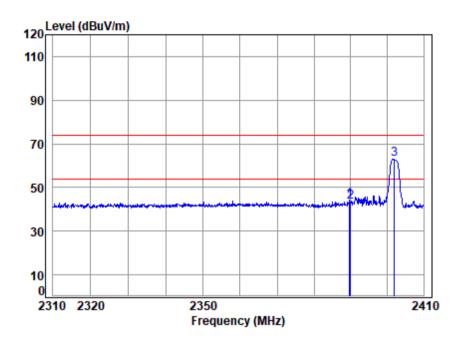
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20387AT/20388AT Mode : 2402 Band edge

Note : BLE 2M

> 1 2 3

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.659	4.34	28.52	40.42	51.92	44.36	74.00	-29.64	peak
2390.000	4.34	28.52	40.42	50.79	43.23	74.00	-30.77	peak
2402.000	4.36	28.54	40.43	70.55	63.02	74.00	-10.98	peak



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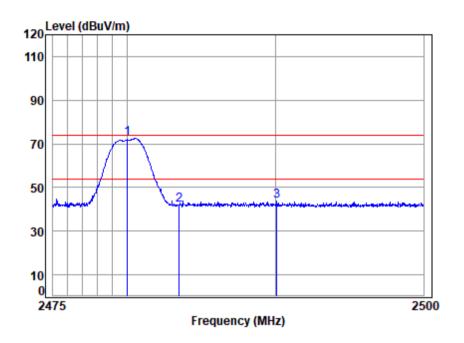
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 20387AT/20388AT Mode : 2480 Band edge

Note : BLE 2M

> 1 2 3

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2480.000	4.49	28.67	40.47	79.78	72.47	74.00	-1.53	peak	
2	2483.500	4.49	28.67	40.47	49.46	42.15	74.00	-31.85	peak	
3	2490.070	4.50	28.68	40.47	50.96	43.67	74.00	-30.33	peak	



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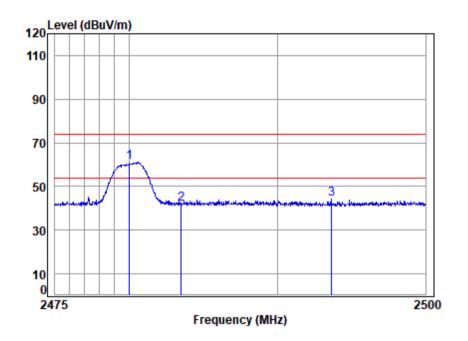
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20387AT/20388AT Mode : 2480 Band edge

Note : BLE 2M

> 1 2 3

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000	4.49	28.67	40.47	68.38	61.07	74.00	-12.93	peak
2483.500	4.49	28.67	40.47	49.11	41.80	74.00	-32.20	peak
2493.626	4.51	28.69	40.47	51.45	44.18	74.00	-29.82	peak



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7.5 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) Test Requirement ANSI C63.10 (2013) Section 11.13.3.2 Test Method:

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

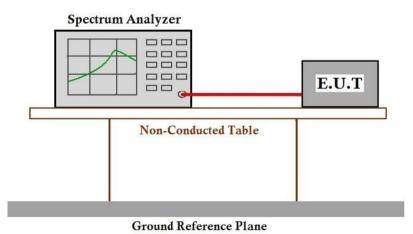
Operating Environment:

21.4 °C Temperature: Humidity: 46.6 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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 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).

7.6.1 E.U.T. Operation

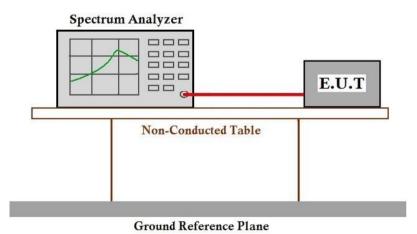
Operating Environment:

Temperature: 21.4 °C Humidity: 46.6 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Spurious Emissions Below 1GHz

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

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

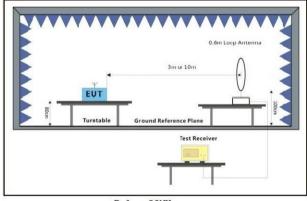
Operating Environment:

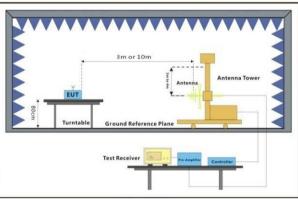
Temperature: 25.2 °C Humidity: 57.9 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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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 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.

- 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.

Remark: Only record the worst case(1Mbps) in the report.

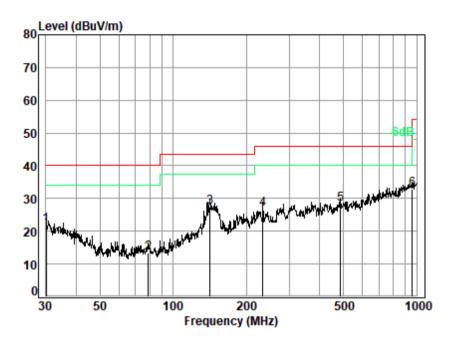




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Test Mode: 04; Polarity: Horizontal Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

: 20387AT Job No.

Test Mode: 04

	louc. or								
		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	——dB	dBuV	dBuV/m	dBuV/m	——dB	
		,		-		asar,			
1	30.11	22.92	0.60	27.74	26.01	21.79	40.00	-18.21	QP
2	78.97	12.25	1.16	27.63	27.61	13.39	40.00	-26.61	QP
3	141.83	13.64	1.15	27.37	40.06	27.48	43.50	-16.02	QP
4	233.35	17.47	1.50	27.04	34.94	26.87	46.00	-19.13	QP
5	487.32	24.30	2.48	27.75	29.16	28.19	46.00	-17.81	QP
6 g	958.79	29.48	3.56	26.86	26.77	32.95	46.00	-13.05	OP



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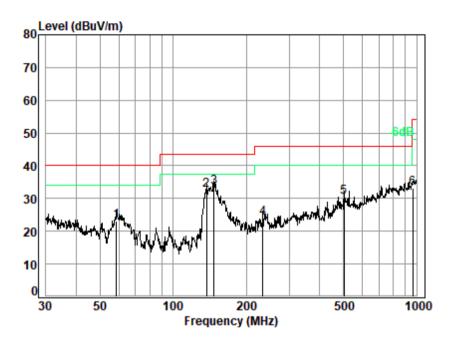
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Test Mode: 04; Polarity: Vertical Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 20387AT Job No.

Test Mode: 04

	louc. or								
		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	58.41	13.12	0.79	27.45	36.61	23.07	40.00	-16.93	QP
2	136.94	13.13	1.15	27.20	45.43	32.51	43.50	-10.99	QP
3 q	146.89	14.30	1.16	27.16	45.07	33.37	43.50	-10.13	QP
4	233.35	17.47	1.50	26.86	32.02	24.13	46.00	-21.87	QP
5	504.71	24.19	2.51	27.60	31.22	30.32	46.00	-15.68	QP
6	965.54	29.50	3.57	26.66	26.80	33.21	54.00	-20.79	OP



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7.8 Radiated Spurious Emissions Above 1GHz

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

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

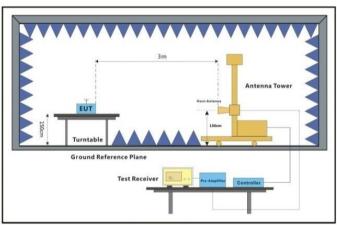
Operating Environment:

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

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



Above 1GHz



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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.

Remark: Only record the worst case(1Mbps) in the report.



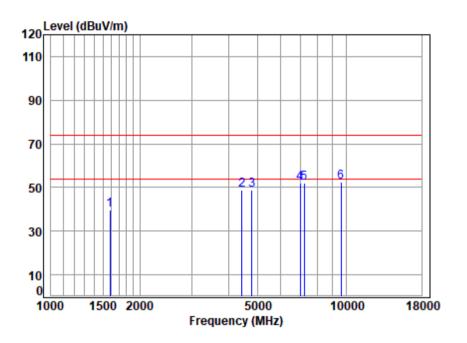
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 20387AT/20386AT

Mode : 2402 TX SE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.33	26.13	40.00	50.13	39.59	74.00	-34.41	peak
2	4443.453	6.71	32.96	41.82	50.90	48.75	74.00	-25.25	peak
3	4804.000	7.10	33.62	42.14	50.43	49.01	74.00	-24.99	peak
4	6995.172	8.54	35.49	41.70	49.61	51.94	74.00	-22.06	peak
5	7206.000	8.74	35.67	41.50	49.22	52.13	74.00	-21.87	peak
6	9608.000	10.81	37.34	37.76	42.11	52.50	74.00	-21.50	peak



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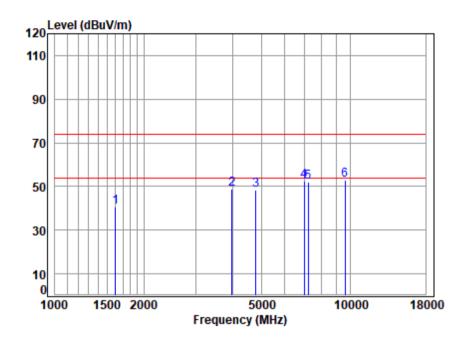
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20387AT/20386AT

Mode : 2402 TX SE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	3.35	26.22	40.01	51.03	40.59	74.00	-33.41	peak
2	3981.257	6.25	32.57	41.39	51.32	48.75	74.00	-25.25	peak
3	4804.000	7.10	33.62	42.14	49.72	48.30	74.00	-25.70	peak
4	6995.172	8.54	35.49	41.70	50.28	52.61	74.00	-21.39	peak
5	7206.000	8.74	35.67	41.50	49.22	52.13	74.00	-21.87	peak
6	9608.000	10.81	37.34	37.76	42.63	53.02	74.00	-20.98	peak



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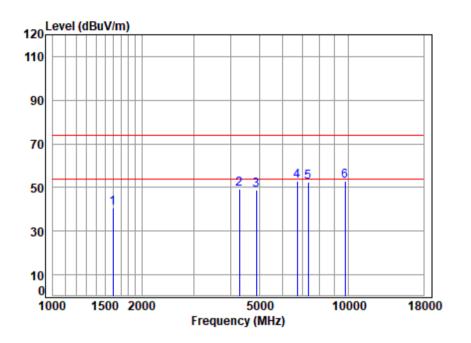
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 20387AT/20386AT

Mode : 2440 TX SE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.20	40.01	51.13	40.67	74.00	-33.33	peak
2	4279.589	6.56	32.83	41.67	51.68	49.40	74.00	-24.60	peak
3	4880.000	7.18	33.77	42.20	49.94	48.69	74.00	-25.31	peak
4	6717.762	8.40	35.00	41.89	51.37	52.88	74.00	-21.12	peak
5	7320.000	8.84	35.76	41.40	49.18	52.38	74.00	-21.62	peak
6	9760 000	10 76	37 41	37 50	42 44	53 11	74 99	-20 89	neak



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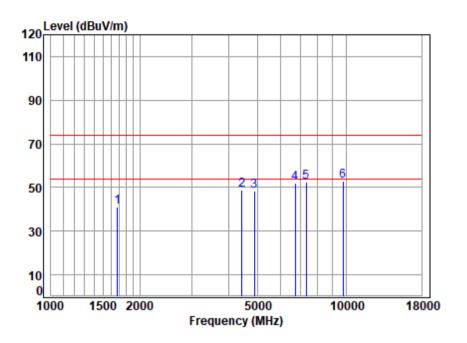
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20387AT/20386AT

Mode : 2440 TX SE

Note : BLE

		-							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.42	26.62	40.05	51.20	41.19	74.00	-32.81	peak
2	4430.628	6.70	32.95	41.81	50.81	48.65	74.00	-25.35	peak
3	4880.000	7.18	33.77	42.20	49.49	48.24	74.00	-25.76	peak
4	6717.762	8.40	35.00	41.89	50.69	52.20	74.00	-21.80	peak
5	7320.000	8.84	35.76	41.40	49.39	52.59	74.00	-21.41	peak
6	9760.000	10.76	37.41	37.50	42.03	52.70	74.00	-21.30	peak



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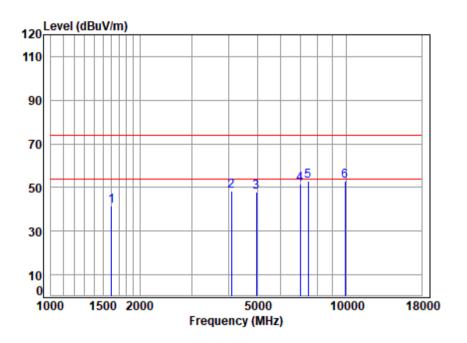
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 20387AT/20386AT

Mode : 2480 TX SE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	3.35	26.22	40.01	52.16	41.72	74.00	-32.28	peak
2	4086.182	6.37	32.67	41.49	50.85	48.40	74.00	-25.60	peak
3	4960.000	7.26	33.92	42.27	48.77	47.68	74.00	-26.32	peak
4	6995.172	8.54	35.49	41.70	49.29	51.62	74.00	-22.38	peak
5	7440.000	8.96	35.85	41.29	49.18	52.70	74.00	-21.30	peak
6	9920.000	10.71	37.47	37.23	41.91	52.86	74.00	-21.14	peak



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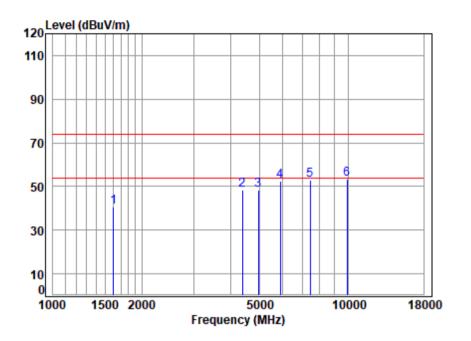
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20387AT/20386AT

Mode : 2480 TX SE

Note : BLE

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1601.804	3.35	26.22	40.01	50.93	40.49	74.00	-33.51	peak
4392.376	6.66	32.92	41.78	50.48	48.28	74.00	-25.72	peak
4960.000	7.26	33.92	42.27	49.33	48.24	74.00	-25.76	peak
5898.442	8.24	34.52	42.39	51.92	52.29	74.00	-21.71	peak
7440.000	8.96	35.85	41.29	49.22	52.74	74.00	-21.26	peak
9920.000	10.71	37.47	37.23	42.64	53.59	74.00	-20.41	peak
	MHz 1601.804 4392.376 4960.000 5898.442 7440.000	Freq Loss MHz dB 1601.804 3.35 4392.376 6.66 4960.000 7.26 5898.442 8.24 7440.000 8.96	Freq Loss Factor MHz dB dB/m 1601.804 3.35 26.22 4392.376 6.66 32.92 4960.000 7.26 33.92 5898.442 8.24 34.52 7440.000 8.96 35.85	Freq Loss Factor Factor MHz dB dB/m dB 1601.804 3.35 26.22 40.01 4392.376 6.66 32.92 41.78 4960.000 7.26 33.92 42.27 5898.442 8.24 34.52 42.39 7440.000 8.96 35.85 41.29	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1601.804 3.35 26.22 40.01 50.93 4392.376 6.66 32.92 41.78 50.48 4960.000 7.26 33.92 42.27 49.33 5898.442 8.24 34.52 42.39 51.92 7440.000 8.96 35.85 41.29 49.22	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1601.804 3.35 26.22 40.01 50.93 40.49 4392.376 6.66 32.92 41.78 50.48 48.28 4960.000 7.26 33.92 42.27 49.33 48.24 5898.442 8.24 34.52 42.39 51.92 52.29 7440.000 8.96 35.85 41.29 49.22 52.74	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1601.804 3.35 26.22 40.01 50.93 40.49 74.00 4392.376 6.66 32.92 41.78 50.48 48.28 74.00 4960.000 7.26 33.92 42.27 49.33 48.24 74.00 5898.442 8.24 34.52 42.39 51.92 52.29 74.00 7440.000 8.96 35.85 41.29 49.22 52.74 74.00	Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB



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Emission Test Results 8

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

47 CFR Part 15, Subpart C 15.247 Test Requirement: Test Method: ANSI C63.10 (2013) Section 6.2

I imit:

Fraguency of amission/MU=)	Conducted limit(dBµV)						
Frequency of emission(MHz)	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 30	MHz					

8.1.1 E.U.T. Operation

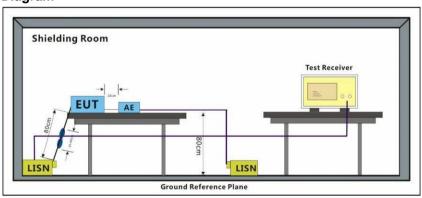
Operating Environment:

Temperature: 24.4 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

8.1.3 Test Setup Diagram





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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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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

Remark: Only record the worst case(1Mbps) in the report.



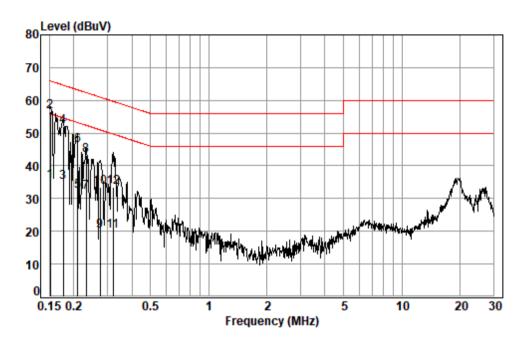
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Test Mode: 04; Line: Live line; Modulation: GFSK; Channel: Low



: Shielding Room

Condition: Line Job No. : 20387AT

Test mode: 04

	mouc. or							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
			. 70					
1	0.1516	0.03	9.70	25.57	35.30	55.91	-20.61	Average
2	0.1516	0.03	9.70	46.96	56.69	65.91	-9.22	QP
3	0.1768	0.03	9.71	25.21	34.95	54.64	-19.69	Average
4	0.1768	0.03	9.71	42.14	51.88	64.64	-12.76	QP
5	0.2094	0.04	9.72	22.39	32.15	53.23	-21.08	Average
6	0.2094	0.04	9.72	36.39	46.15	63.23	-17.08	QP
7	0.2316	0.04	9.73	22.03	31.80	52.39	-20.59	Average
8	0.2316	0.04	9.73	33.42	43.19	62.39	-19.20	QP
9	0.2744	0.05	9.74	10.40	20.19	50.98	-30.79	Average
10	0.2744	0.05	9.74	23.71	33.50	60.98	-27.48	QP
11	0.3200	0.06	9.74	10.30	20.10	49.71	-29.61	Average
12	0.3200	0.06	9.74	23.57	33.37	59.71	-26.34	QP



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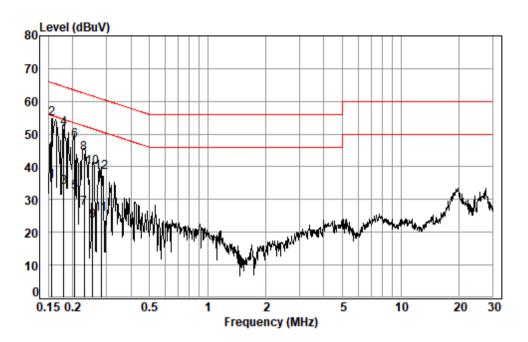
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Test Mode: 04; Line: Neutral Line; Modulation: GFSK; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 20387AT

Test mode: 04

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.03	9.71	25.92	35.66	55.69	-20.03	Average
2	0.1557	0.03	9.71	45.15	54.89	65.69	-10.80	QP
3	0.1796	0.03	9.71	24.11	33.85	54.50	-20.65	Average
4	0.1796	0.03	9.71	42.01	51.75	64.50	-12.75	QP
5	0.2050	0.04	9.72	22.50	32.26	53.40	-21.14	Average
6	0.2050	0.04	9.72	38.20	47.96	63.40	-15.44	QP
7	0.2292	0.04	9.73	17.75	27.52	52.48	-24.96	Average
8	0.2292	0.04	9.73	34.20	43.97	62.48	-18.51	QP
9	0.2535	0.05	9.73	13.69	23.47	51.64	-28.17	Average
10	0.2535	0.05	9.73	29.93	39.71	61.64	-21.93	QP
11	0.2803	0.05	9.74	15.63	25.42	50.81	-25.39	Average
12	0.2803	0.05	9.74	28.64	38.43	60.81	-22.38	QP



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9 Test Setup Photo

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2104020387AT



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11 Appendix

1. Bandwidth

1.1 6dB BW

1.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)	Limit	Verdict
			2402	1	0.68	>=0.5	Pass
	1M	SISO	2440	1	0.68	>=0.5	Pass
NITNI\ /			2480	1	0.69	>=0.5	Pass
NTNV		SISO	2402	1	1.19	>=0.5	Pass
	2M		2440	1	1.20	>=0.5	Pass
			2480	1	1.19	>=0.5	Pass



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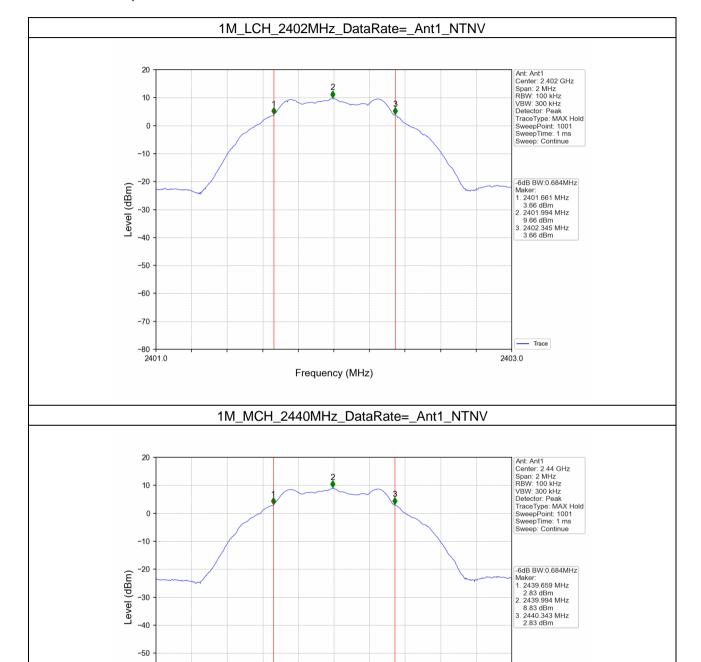
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1.2.2 Test Graph





-60

-70

-80 2439.0

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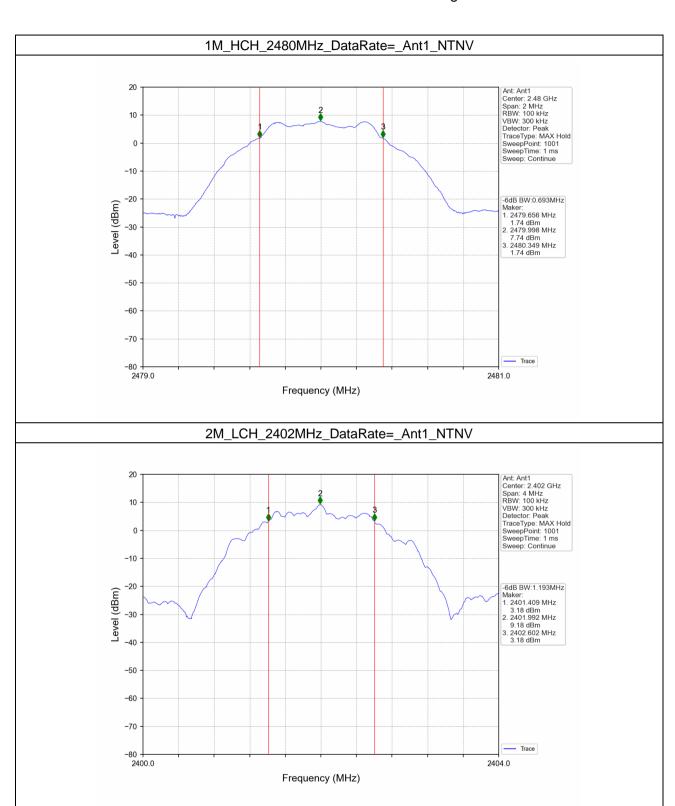
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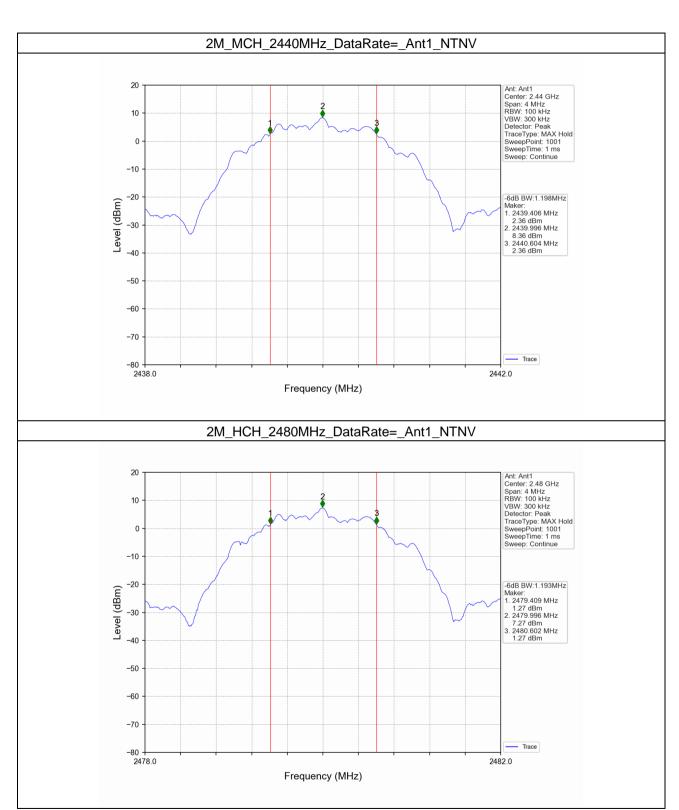
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

ENV	Mode	TV Tuna	Fraguesov (MHz)	Measured Peak O	Verdict	
EINV	Mode	1 × Type	Frequency (MHz)	Ant1	Limit	verdict
			2402	10.44	<=30	Pass
	1M	SISO	2440	9.62	<=30	Pass
NITNI\/			2480	8.54	<=30	Pass
NTNV		SISO	2402	10.43	<=30	Pass
	2M		2440	9.58	<=30	Pass
			2480	8.53	<=30	Pass
Note:	1: Antenn	a Gain: An	t1: 0.00dBi;			

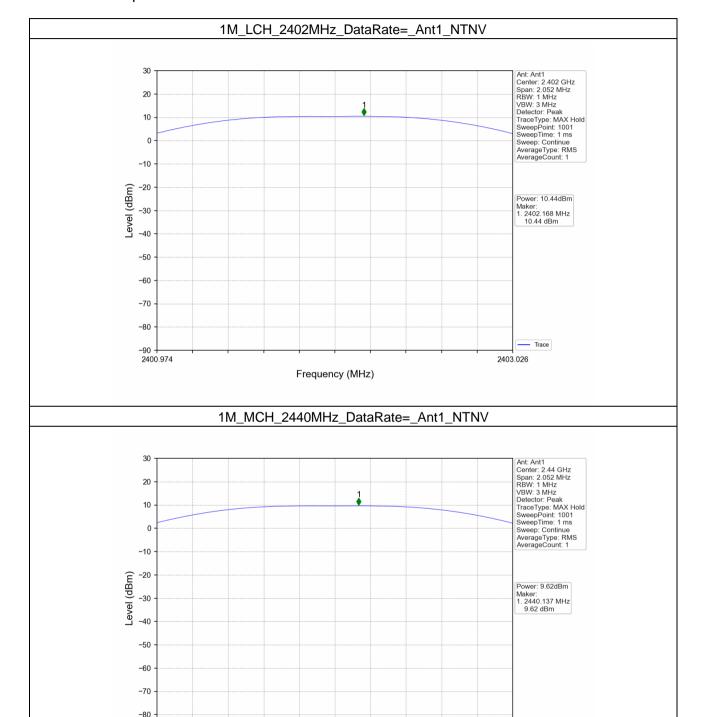




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2.1.2 Test Graph





-90 2438.974

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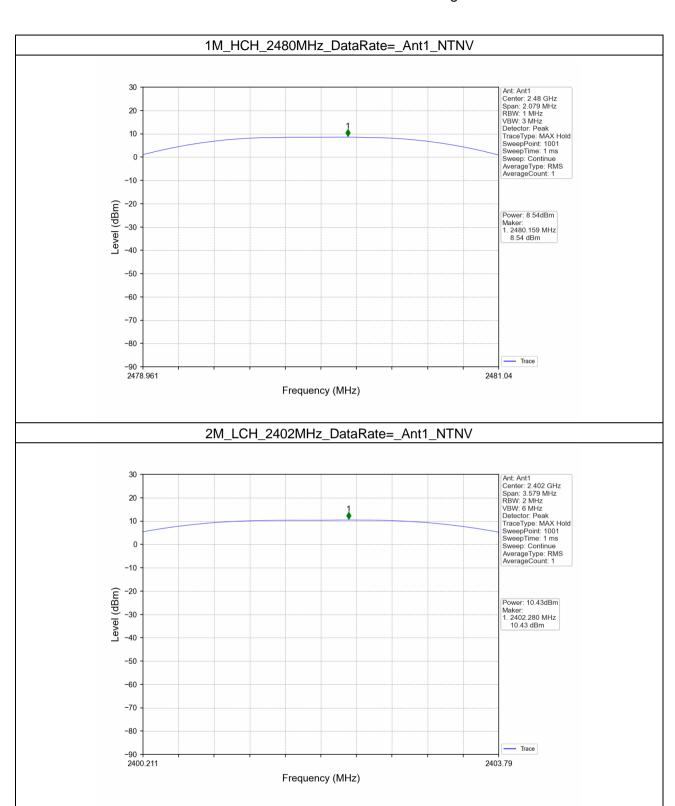
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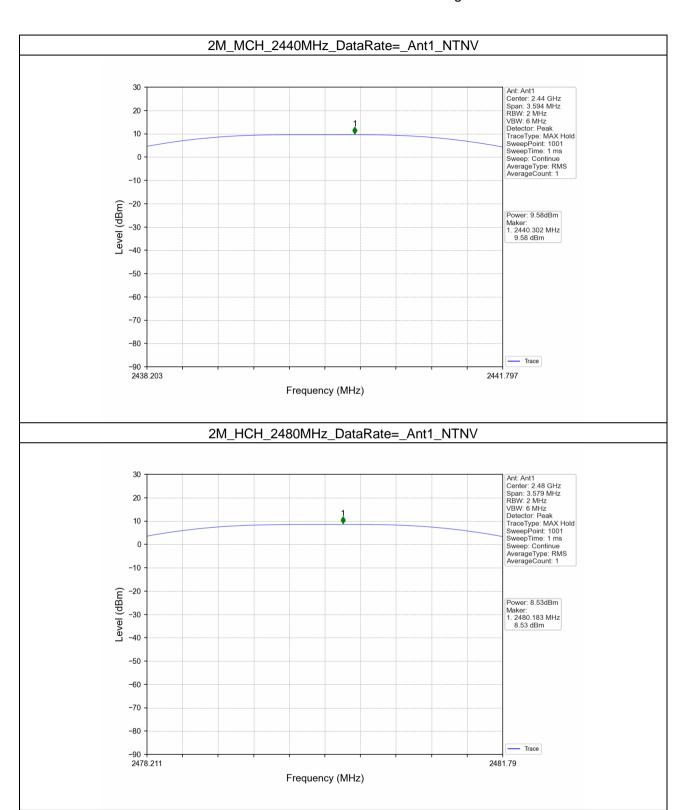
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3. Maximum Power Spectral Density

3.1 PSD

3.1.1 Test Result

ENV	Mode	TV Tuno	Frequency (MHz)	Maximum PSI	D (dBm/3kHz)	Verdict
EINV	Mode	TX Type	riequency (MHZ)	Ant1	Limit	verdict
			2402	-4.86	<=8	Pass
	1M	SISO	2440	-5.67	<=8	Pass
NITNIV			2480	-6.76	<=8	Pass
NTNV			2402	-7.12	<=8	Pass
	2M	SISO	2440	-8.00	<=8	Pass
			2480	-8.99	<=8	Pass
Note ²	1: Antenna	Gain: Ant1	: 0.00dBi;			·



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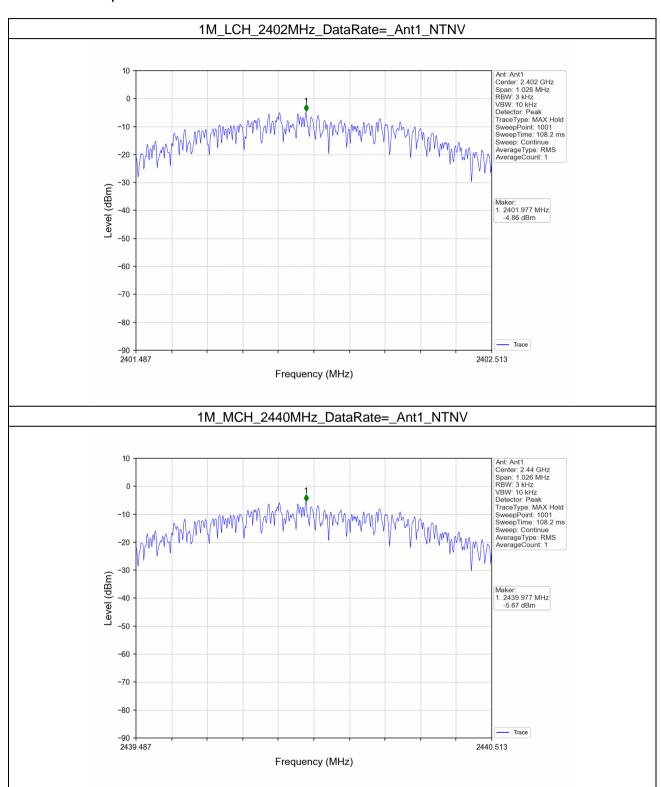
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3.1.2 Test Graph





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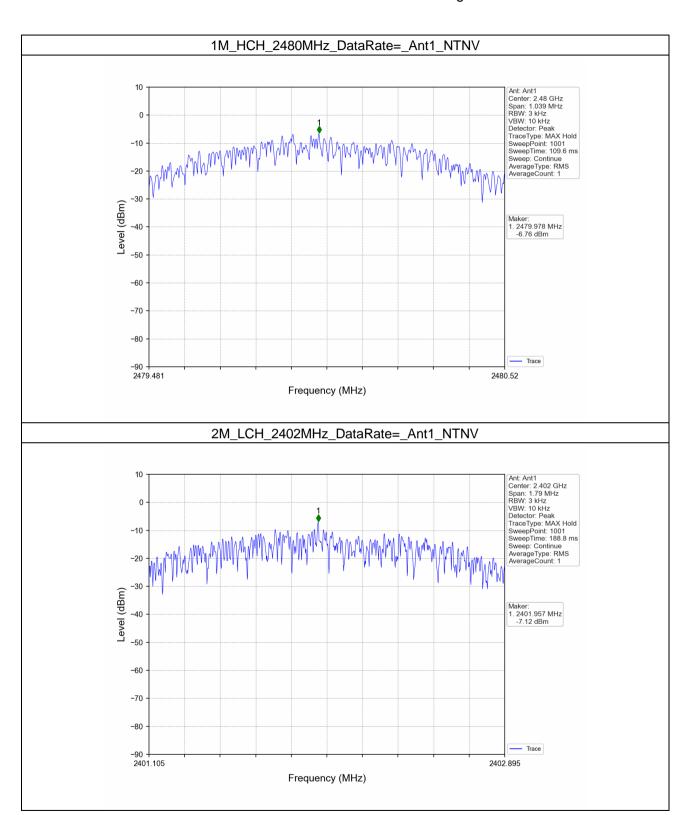
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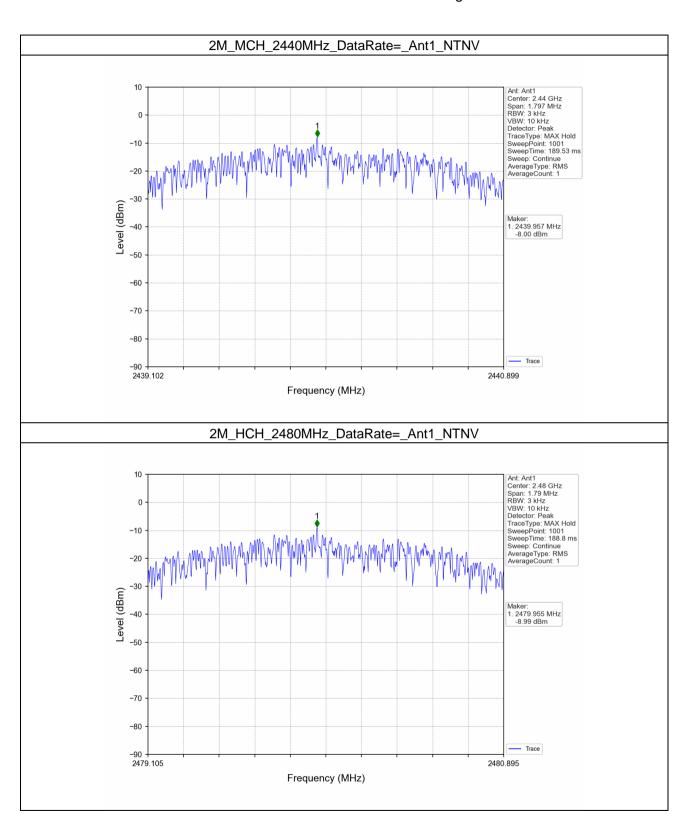
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4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

4.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
NITA IN			2402	1	9.62	/	/
	1M	SISO	2440	1	8.81	/	/
			2480	1	7.75	/	/
NTNV	2M	SISO	2402	1	9.14	/	/
			2440	1	8.35	/	/
			2480	1	7.28	/	/

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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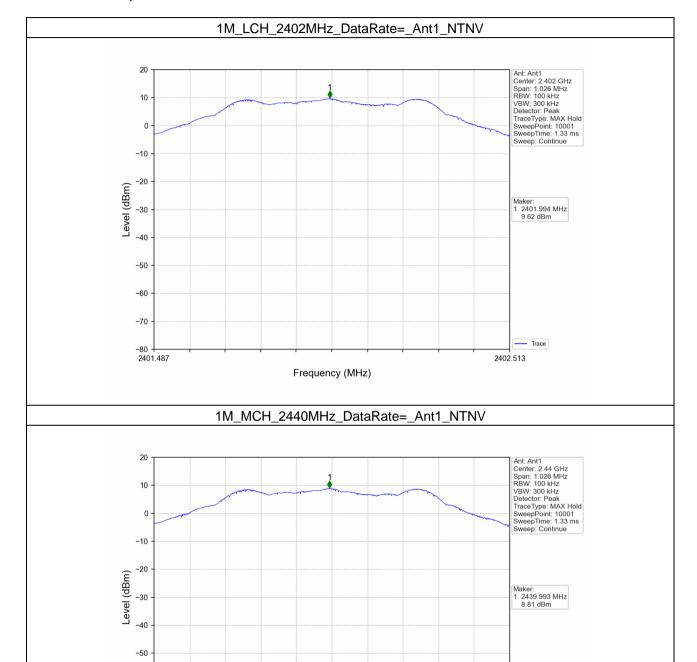
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4.1.2 Test Graph





-60

-70

-80 2439.487

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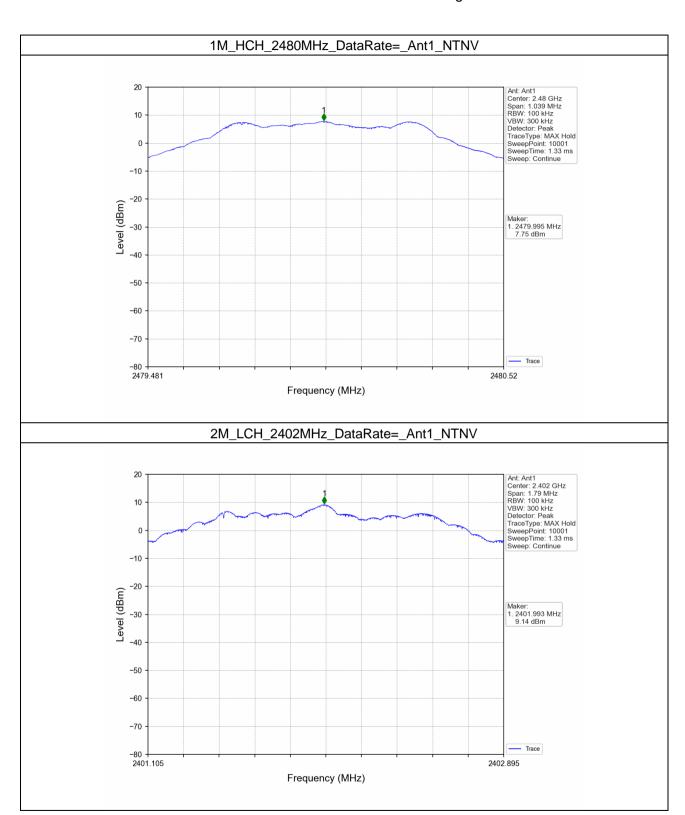
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2440.513



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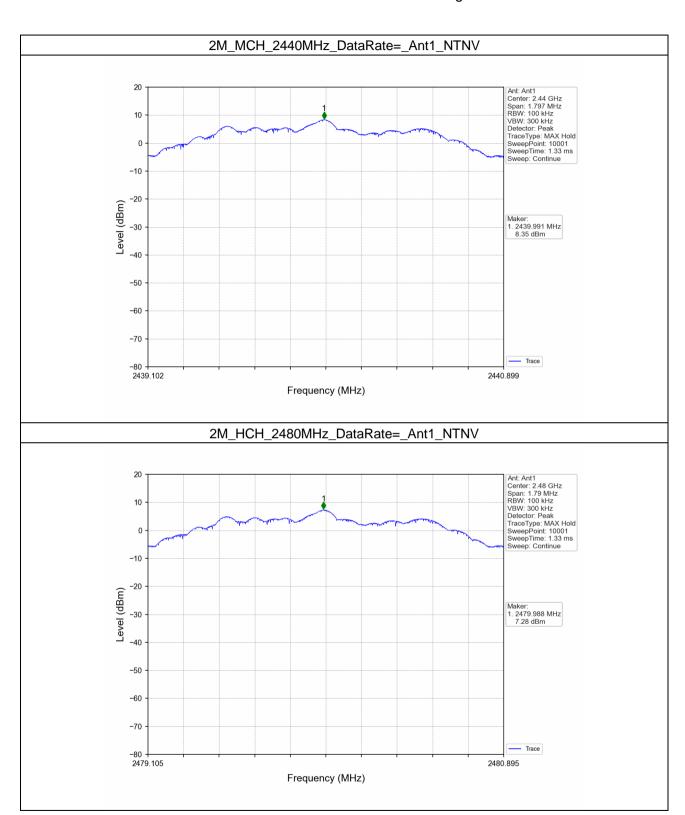
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5.2 CSE

5.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
	1M		2402	1	9.62	-10.38	Pass
		SISO	2440	1	9.62	-10.38	Pass
NTNV			2480	1	9.62	-10.38	Pass
INTINV			2402	1	9.14	-10.86	Pass
	2M	SISO	2440	1	9.14	-10.86	Pass
			2480	1	9.14	-10.86	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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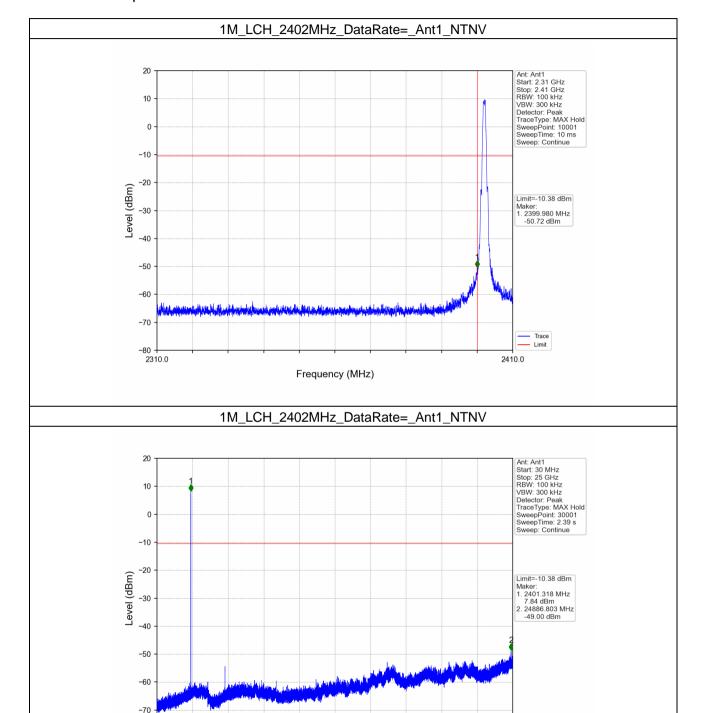
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5.2.2 Test Graph





-80

30.0

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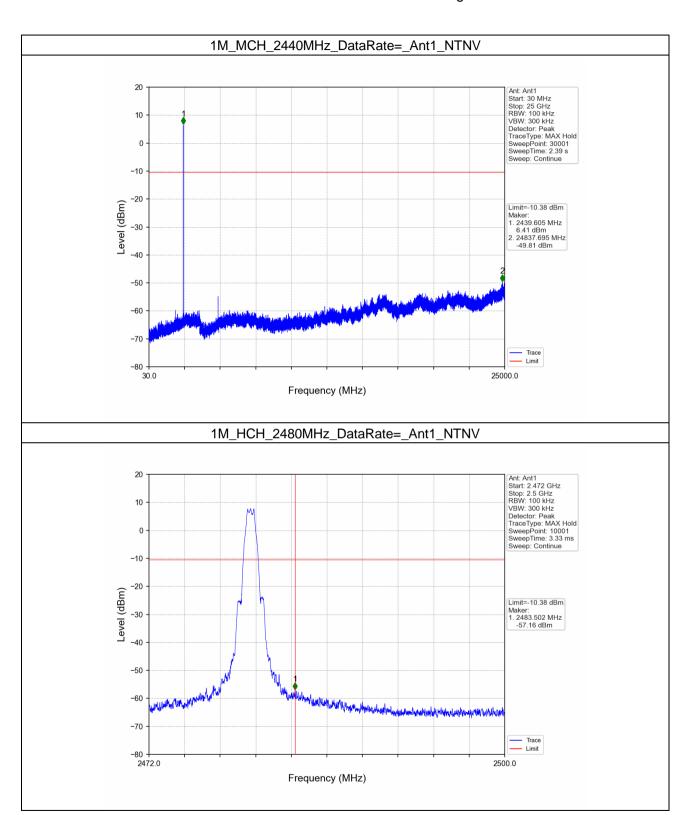
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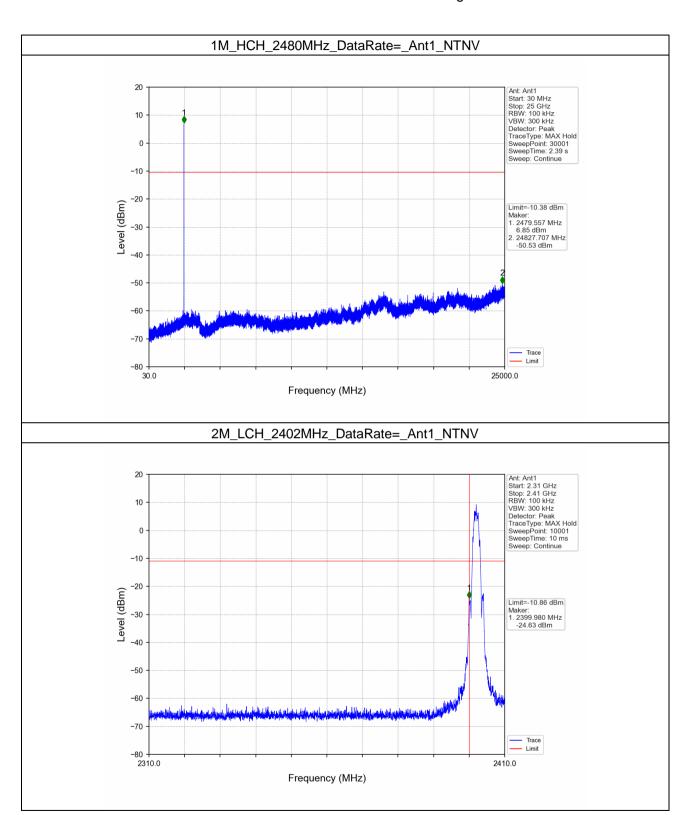
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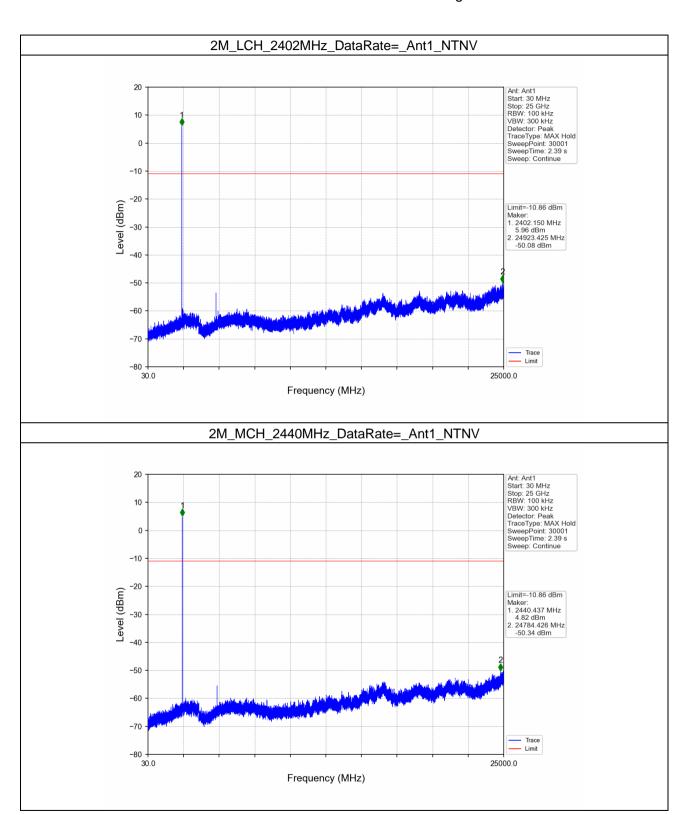
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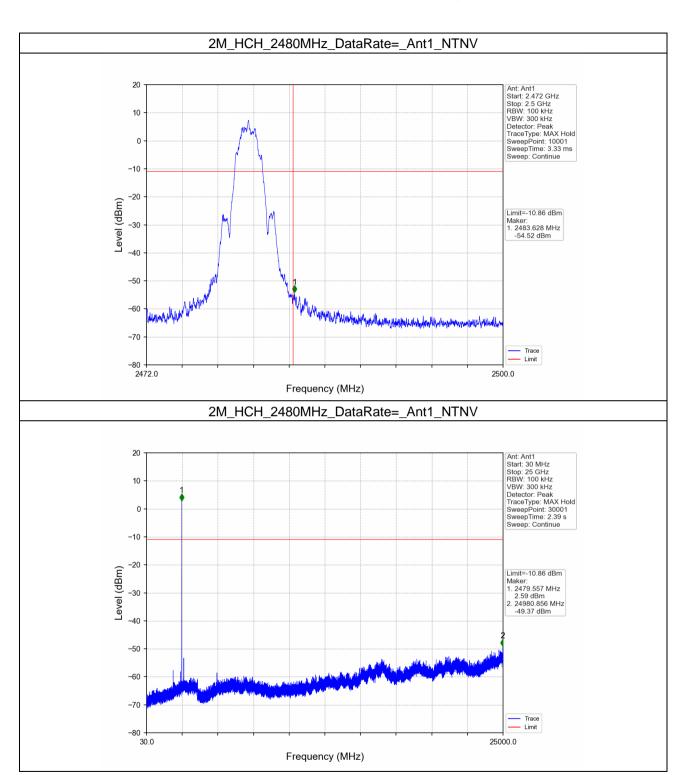
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