





SZEMC-TRF-01 Rev. A/0 Aug01.2022

Report No.: SZCR230300073603

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TEST REPORT

Application No.: SZCR2303000736AT

Applicant: SZ DJI Osmo Technology Co., Ltd.

4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui **Address of Applicant:**

Road North, Guangming Street, Guangming District, Shenzhen, China

Manufacturer: SZ DJI Osmo Technology Co., Ltd.

4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui **Address of Manufacturer:**

Road North, Guangming Street, Guangming District, Shenzhen, China

Factory: SZ DJI Ronin Technology Co., Ltd.

Floor 4-5, Block 13, Area 7, Baiwangxin Industrial Park, Songbai Rd, Address of Factory:

Nanshan District, Shenzhen City, Guangdong Province, P. R. China

Equipment Under Test (EUT):

EUT Name: Osmo Action 4

Model No.: AC003 Trade Mark: DJI

FCC ID: 2ANDR-AC0032023

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

2023-03-20 **Date of Receipt:**

Date of Test: 2023-03-31 to 2023-04-17

Date of Issue: 2023-05-16

Test Result: Pass*

EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record						
Version	Version Chapter Date Modifier Rema						
01		2023-05-16		Original			

Authorized for issue by:		
	Darren Yuan	
	Darren Yuan/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 Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	Subpart C 15.247	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	



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General Information

Details of E.U.T.

Power supply:	Powered by Lithium Ion Polymer Rechargeable Battery
	Battery information:
	Model: BCX202-1770-3.85
	Nominal Voltage: 3.85V
	Rated Capacity: 1770mAh 6.81Wh
Cable(s):	Type-C Cable: 50cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-3dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HUAWEI	HW-20032SBP0	N/A

4.3 Measurement Uncertainty

4.5 Measurement oncertainty	
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/ETSI} (CISPR/ETSI Uncertainty), so the test results

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



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

Abnormalities from Standard Conditions

None



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Equipment List 5

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	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	



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Power Spectrum Density								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07			
Attenuator Huber+Suhner		6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30			

Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	TST PASS	TST PASS N/A		N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator Huber+Suhner		6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		

Conducted Spurious Emissions							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software LL LST PASS LL		TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator Huber+Suhner		6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		



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Radiated Emissions which fall in the restricted bands								
Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal Due Date			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01			
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19			
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23			
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07			
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09			
Pre-Amplifier	Compliance		SEM005-08	2023-03-20	2024-03-19			

Radiated Spurious Emissions Below 1GHz								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26			
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19			
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27			
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30			
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2022-07-08	2023-07-07			



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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	2022-04-02	2025-04-01		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23		
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07		

General used equipmen	t					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03	
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22	



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Radio Spectrum Technical Requirement 6

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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -3dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco (MIII)	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 30MHz					

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C Humidity: 50.3 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Title Tool Meda 2000 pull						
Pre-scan / Final test	Mode Code	Description				
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.				
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.				



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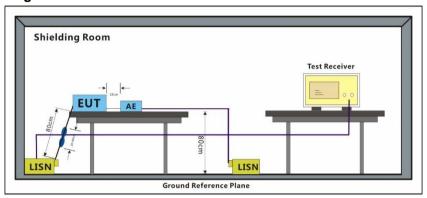


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7.1.3 Test Setup Diagram



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



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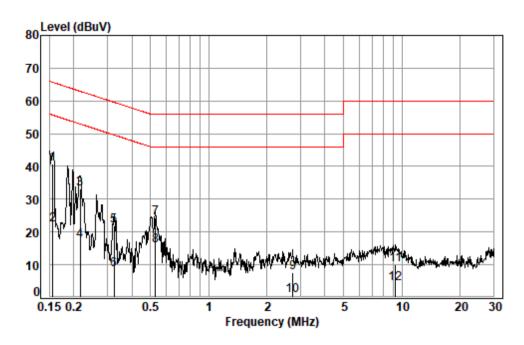


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Test Mode: 05; Line: Live line



: Shielding Room

Condition: Line Job No. : 00736AT

Test mode: 05

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
	0.4557	0.03	0.76	20.02	40.70	65.60	24.07	0.0
1 *	0.1557	0.03	9.76	30.93	40.72	65.69	-24.97	QР
2	0.1557	0.03	9.76	12.46	22.25	55.69	-33.44	Average
3	0.2162	0.04	9.76	23.28	33.08	62.96	-29.88	QP
4	0.2162	0.04	9.76	7.50	17.30	52.96	-35.66	Average
5	0.3234	0.05	9.76	11.94	21.75	59.62	-37.87	QP
6	0.3234	0.05	9.76	-1.22	8.59	49.62	-41.03	Average
7	0.5293	0.06	9.76	14.43	24.25	56.00	-31.75	QP
8 *	0.5293	0.06	9.76	6.00	15.82	46.00	-30.18	Average
9	2.7356	0.12	9.83	-2.39	7.56	56.00	-48.44	QP
10	2.7356	0.12	9.83	-9.34	0.61	46.00	-45.39	Average
11	9.3024	0.20	10.22	-0.37	10.05	60.00	-49.95	QP
12	9.3024	0.20	10.22	-6.11	4.31	50.00	-45.69	Average



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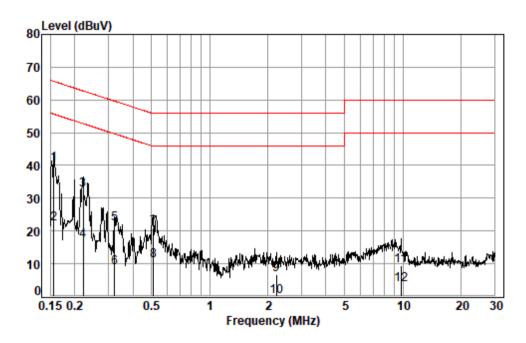


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Test Mode: 05; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00736AT

Test mode: 05

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1565	0.03	9.74	20 66	40.43	65 65	25 22	OD
1 "	0.1505	0.05	9.74	30.66	40.43	05.05	-25.22	٧P
2 *	0.1565	0.03	9.74	12.58	22.35	55.65	-33.30	Average
3	0.2220	0.04	9.73	22.91	32.68	62.74	-30.06	QP
4	0.2220	0.04	9.73	7.13	16.90	52.74	-35.84	Average
5	0.3217	0.05	9.73	12.31	22.09	59.66	-37.57	QP
6	0.3217	0.05	9.73	-0.99	8.79	49.66	-40.87	Average
7	0.5128	0.06	9.74	11.14	20.94	56.00	-35.06	QP
8	0.5128	0.06	9.74	1.09	10.89	46.00	-35.11	Average
9	2.2132	0.11	9.80	-3.26	6.65	56.00	-49.35	QP
10	2.2132	0.11	9.80	-9.96	-0.05	46.00	-46.05	Average
11	9.8085	0.21	10.30	-1.15	9.36	60.00	-50.64	QP
12	9.8085	0.21	10.30	-6.80	3.71	50.00	-46.29	Average



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7.2 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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Atmospheric Pressure: 1015 mbar Humidity: 55.2 % RH

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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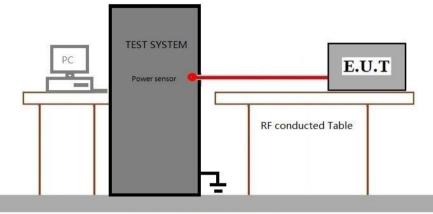


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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) ANSI C63.10 (2013) Section 11.8.1 Test Method:

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

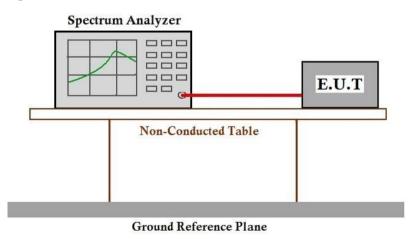
Operating Environment:

Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 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

7.4.1 E.U.T. Operation

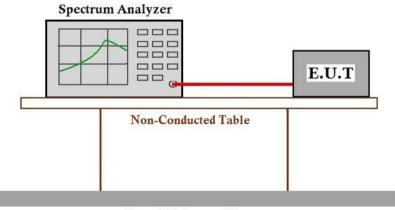
Operating Environment:

Temperature: 25.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) 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:

Temperature: 25.5 °C Atmospheric Pressure: 1015 mbar Humidity: 55.2 % RH



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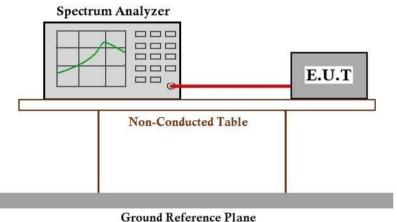
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7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11 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).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Atmospheric Pressure: 1015 mbar Humidity: 55.2 % RH

7.6.2 Test Mode Description

Tiesz Teet mede Beechptien						
Pre-scan / Final test	Mode Code	Description				
Final test	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				
Final test	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode				
1 11101 1001	0-1	with GFSK modulation.				



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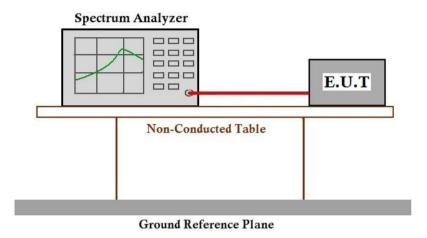


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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15,205 & 15,209 Test Requirement

ANSI C63.10 (2013) Section 6.10.5 Test Method:

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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C Humidity: 56.0 % RH Atmospheric Pressure: 1015 mbar





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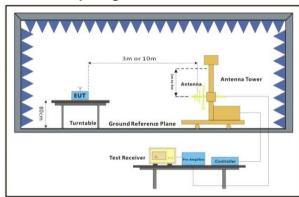
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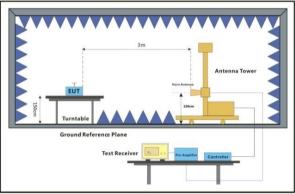
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7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram





30MHz-1GHz Above 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 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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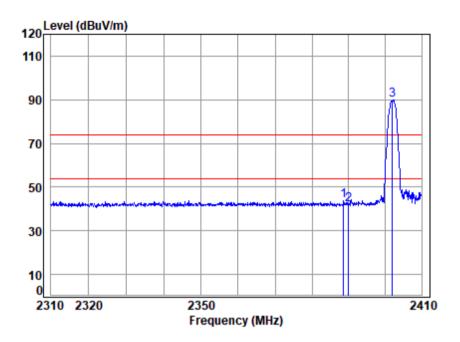


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: Low



: chamber Site

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT 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	2388.647	4.25	28.75	35.64	46.44	43.80	74.00	-30.20	peak	
2	2390.000	4.25	28.76	35.64	44.43	41.80	74.00	-32.20	peak	
3	q 2402.000	4.26	28.81	35.64	92.32	89.75	74.00	15.75	peak	



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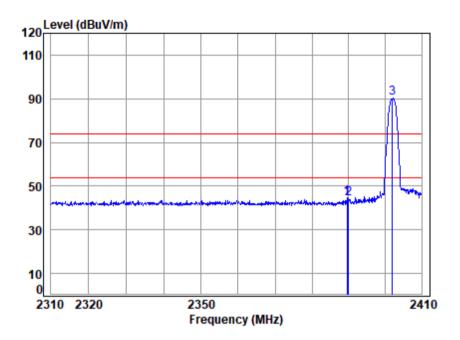


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel: Low



: chamber Site

Condition: 3m VERTICAL

Job No : 00736AT/00737AT Mode : 2402 Band edge

Note : BLE 1M

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.558	4.25	28.76	35.64	47.20	44.57	74.00	-29.43	peak
2	2390.000	4.25	28.76	35.64	46.95	44.32	74.00	-29.68	peak
3 q	2402.000	4.26	28.81	35.64	92.73	90.16	74.00	16.16	peak



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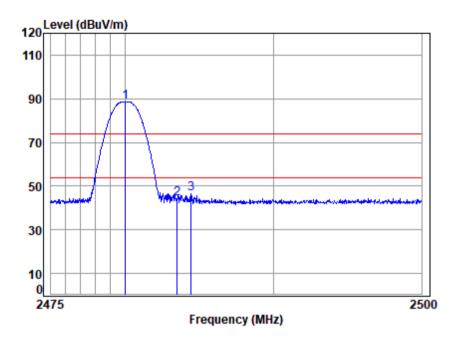


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: High



: chamber Site

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT Mode : 2480 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	q	2480.000	4.34	29.28	35.61	90.54	88.55	74.00	14.55	peak	
2		2483.500	4.34	29.30	35.61	46.09	44.12	74.00	-29.88	peak	
3		2484.446	4.34	29.31	35.61	48.31	46.35	74.00	-27.65	peak	



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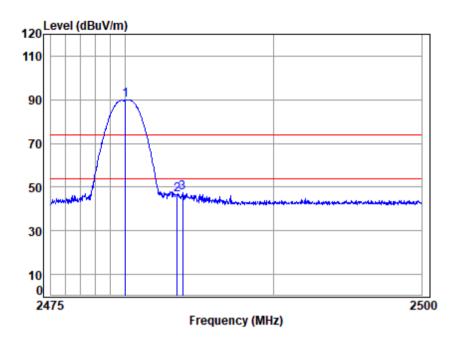


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT Mode : 2480 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 q	2480.000	4.34	29.28	35.61	91.83	89.84	74.00	15.84	peak	
2	2483.500	4.34	29.30	35.61	48.60	46.63	74.00	-27.37	peak	
3	2483.846	4.34	29.30	35.61	49.32	47.35	74.00	-26.65	peak	



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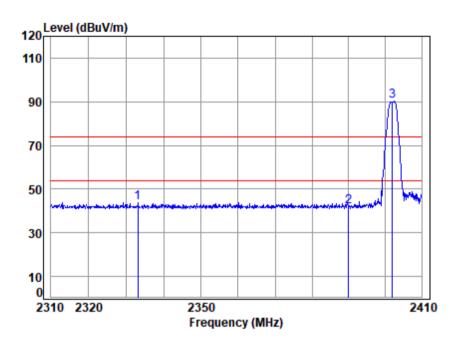


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: Low



: chamber Site

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT 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	2333.121	4.19	28.53	35.66	46.86	43.92	74.00	-30.08	peak	
2	2390.000	4.25	28.76	35.64	44.70	42.07	74.00	-31.93	peak	
3	q 2402.000	4.26	28.81	35.64	92.74	90.17	74.00	16.17	peak	



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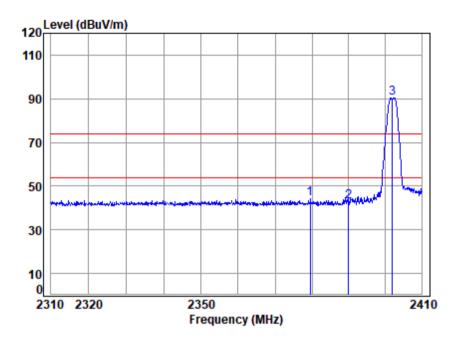


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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: Low



: chamber Site

Condition: 3m VERTICAL

Job No : 00736AT/00737AT 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	2379.554	4.24	28.72	35.64	47.04	44.36	74.00	-29.64	peak	
2	2390.000	4.25	28.76	35.64	45.49	42.86	74.00	-31.14	peak	
3	q 2402.000	4.26	28.81	35.64	93.02	90.45	74.00	16.45	peak	



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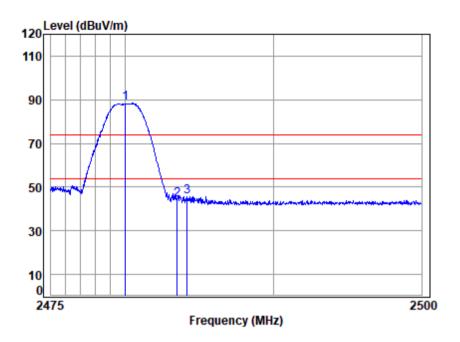


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



: chamber Site

Condition: 3m HORIZONTAL : 00736AT/00737AT Job No Mode : 2480 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	q	2480.000	4.34	29.28	35.61	90.31	88.32	74.00	14.32	peak	
2		2483.500	4.34	29.30	35.61	46.30	44.33	74.00	-29.67	peak	
3		2484.171	4.34	29.31	35.61	47.61	45.65	74.00	-28.35	peak	



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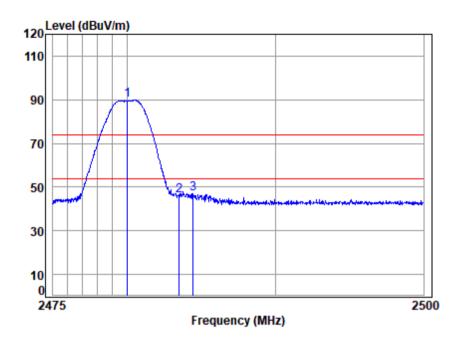


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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT Mode : 2480 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 q	2480.000	4.34	29.28	35.61	91.74	89.75	74.00	15.75	peak	
2	2483.500	4.34	29.30	35.61	48.19	46.22	74.00	-27.78	peak	
3	2484 446	4 34	29 31	35 61	49 16	47 20	74 00	-26 80	neak	



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7.8 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: 10m

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.5 % RH Atmospheric Pressure: 1015 mbar



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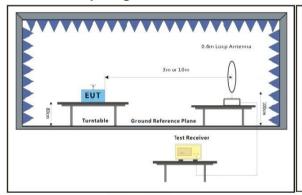
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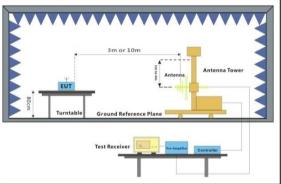
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7.8.2 Test Mode Description

		· · · · · · · ·
Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 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.



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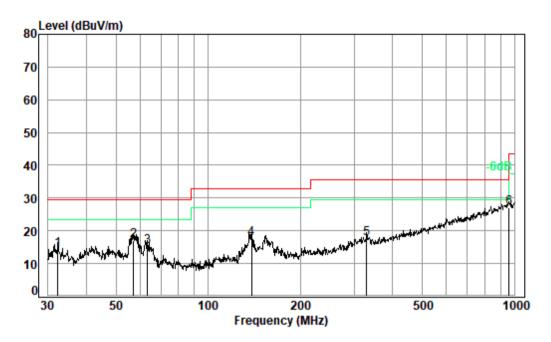


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Condition: 10m HORIZONTAL : 00736AT/00737AT Job No.

Test Mode: 05

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.293	29.96	16.26	0.66	32.46	14.42	29.50	-15.08	QP
2	56.991	31.65	17.29	0.64	32.40	17.18	29.50	-12.32	QP
3	63.313	30.44	16.50	0.68	32.40	15.22	29.50	-14.28	QP
4	138.874	32.05	16.96	0.97	32.40	17.58	33.00	-15.42	QP
5	329.039	30.12	18.39	1.49	32.40	17.60	35.60	-18.00	QP
	958.794	27.38	28.34	2.49	31.17	27.04	35.60	-8.56	OP



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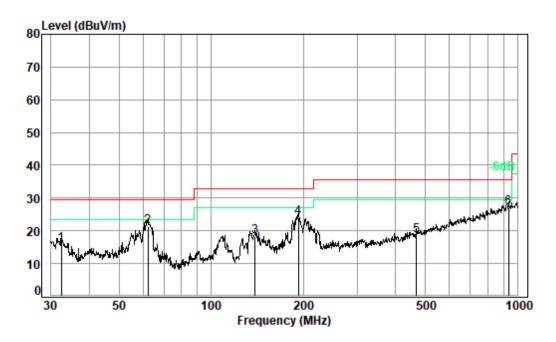


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel: middle



Condition: 10m VERTICAL : 00736AT/00737AT Job No.

Test Mode: 05

	046. 05								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.406	31.48	16.26	0.66	32.46	15.94	29.50	-13.56	QP
2 pp	62.213	36.42	16.74	0.68	32.40	21.44	29.50	-8.06	QP
3	139.361	32.57	17.01	0.97	32.40	18.15	33.00	-14.85	QP
4	192.419	40.16	15.23	1.16	32.40	24.15	33.00	-8.85	QP
5	467.235	28.07	21.31	1.77	32.47	18.68	35.60	-16.92	QP
6	935.546	27.64	28.28	2.47	31.38	27.01	35.60	-8.59	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
32.293	14.42	5.26	17.53	24.88	40	-15.12	Н
56.991	17.18	7.23	24.09	27.64	40	-12.36	Н
63.313	15.22	5.77	19.23	25.68	40	-14.32	Н
138.874	17.58	7.57	25.23	28.04	43.5	-15.46	Н
329.039	17.60	7.59	25.29	28.06	46	-17.94	Н
958.794	27.04	22.49	74.97	37.50	46	-8.50	Н
32.406	15.94	6.27	20.89	26.40	40	-13.60	V
62.213	21.44	11.80	39.34	31.90	40	-8.10	V
139.361	18.15	8.08	26.94	28.61	43.5	-14.89	V
192.419	24.15	16.13	53.75	34.61	43.5	-8.89	V
467.235	18.68	8.59	28.63	29.14	46	-16.86	V
935.546	27.01	22.41	74.71	37.47	46	-8.53	V



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7.9 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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 55.9 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

1.3.2 163t W	loue De	scription						
Pre-scan / Mode Final test Code		Description						
Pre-scan	03	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Pre-scan	04	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	05	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.						
Final test	06	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.						



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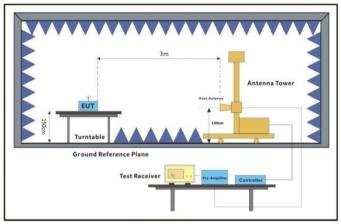


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7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 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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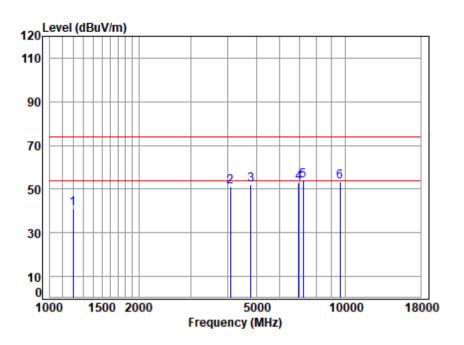


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT

Mode : 2402 TX RSE

: 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	1199.726	2.80	24.40	37.71	51.74	41.23	74.00	-32.77	peak
2	4086.182	6.37	32.97	34.39	46.31	51.26	74.00	-22.74	peak
3	4804.000	7.04	33.82	34.86	45.97	51.97	74.00	-22.03	peak
4	6954.852	8.31	35.71	35.87	44.97	53.12	74.00	-20.88	peak
5 d	7206.000	8.52	35.80	35.95	45.60	53.97	74.00	-20.03	peak
6	9608.000	10.39	37.10	35.55	41.22	53.16	74.00	-20.84	peak



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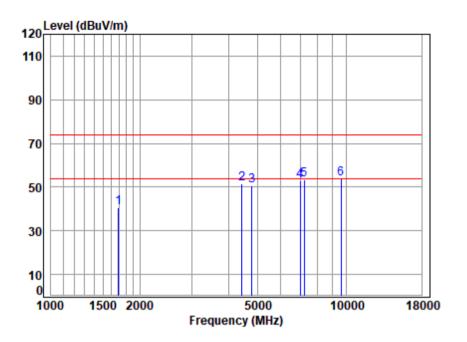


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT

Mode : 2402 TX RSE

: 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	1692.231	3.48	26.78	36.42	46.89	40.73	74.00	-33.27	peak
2	4443.453	6.72	33.50	34.64	45.98	51.56	74.00	-22.44	peak
3	4804.000	7.04	33.82	34.86	44.52	50.52	74.00	-23.48	peak
4	6974.982	8.32	35.75	35.89	44.65	52.83	74.00	-21.17	peak
5	7206.000	8.52	35.80	35.95	45.04	53.41	74.00	-20.59	peak
6	9608 000	10 39	37 10	35 55	12 02	53 96	7/ 00	-20 04	neak



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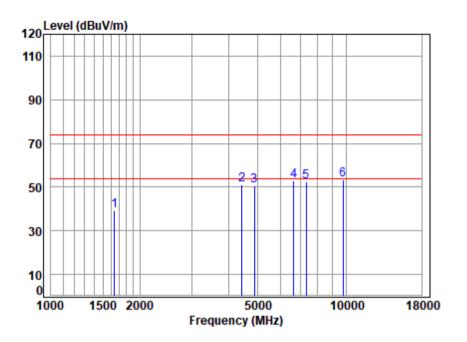


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT

Mode : 2440 TX RSE

: 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	1639.274	3.42	26.66	36.54	45.70	39.24	74.00	-34.76	peak
2	4443.453	6.72	33.50	34.64	45.31	50.89	74.00	-23.11	peak
3	4880.000	7.11	34.06	34.91	44.28	50.54	74.00	-23.46	peak
4	6640.542	8.27	35.60	35.61	44.72	52.98	74.00	-21.02	peak
5	7320.000	8.62	35.90	35.97	43.93	52.48	74.00	-21.52	peak
6	q 9760.000	10.45	37.20	35.56	41.11	53.20	74.00	-20.80	peak



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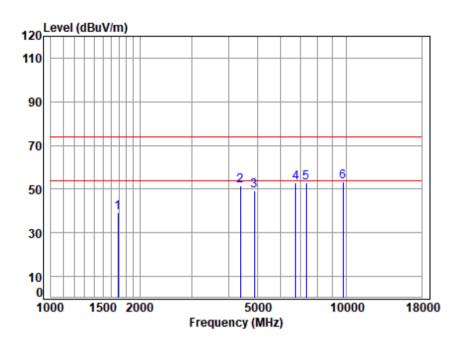


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT

Mode : 2440 TX RSE

: 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		1687.347	3.47	26.77	36.43	45.33	39.14	74.00	-34.86	peak
2		4392.376	6.67	33.52	34.60	45.79	51.38	74.00	-22.62	peak
3		4880.000	7.11	34.06	34.91	43.17	49.43	74.00	-24.57	peak
4		6756.708	8.28	35.50	35.71	44.93	53.00	74.00	-21.00	peak
5		7320.000	8.62	35.90	35.97	44.48	53.03	74.00	-20.97	peak
6	-	9760 000	10 /15	37 20	35 56	11 20	53 29	7/ 00	-20 71	neak



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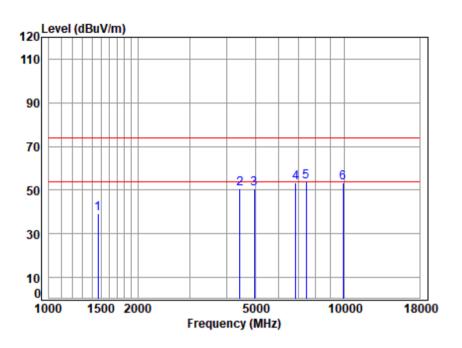


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT

Mode : 2480 TX RSE

: 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	1468.761	3.20	25.28	36.95	47.92	39.45	74.00	-34.55	peak
2	4443.453	6.72	33.50	34.64	45.17	50.75	74.00	-23.25	peak
3	4960.000	7.18	34.22	34.96	44.21	50.65	74.00	-23.35	peak
4	6855.063	8.30	35.60	35.79	45.34	53.45	74.00	-20.55	peak
5 q	7440.000	8.73	35.90	35.99	45.09	53.73	74.00	-20.27	peak
6	9920.000	10.52	37.30	35.57	41.23	53.48	74.00	-20.52	peak



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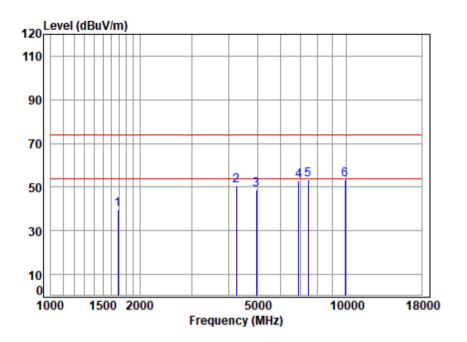


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Test Mode: 05; Polarity: Vertical; Modulation: GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT

Mode : 2480 TX RSE

: 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	1687.347	3.47	26.77	36.43	45.73	39.54	74.00	-34.46	peak
2	4242.641	6.53	33.57	34.50	45.23	50.83	74.00	-23.17	peak
3	4960.000	7.18	34.22	34.96	42.56	49.00	74.00	-25.00	peak
4	6914.763	8.31	35.63	35.84	44.95	53.05	74.00	-20.95	peak
5	7440.000	8.73	35.90	35.99	44.60	53.24	74.00	-20.76	peak
6	9920 000	10 52	37 30	35 57	11 21	53 //9	7/ 00	-20 51	neak



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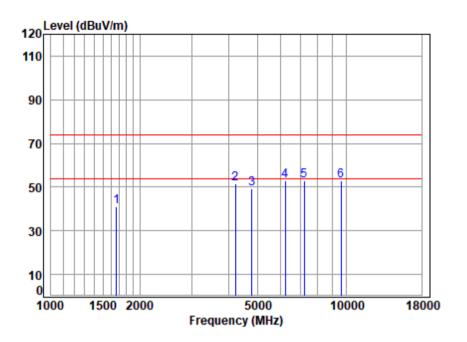


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT

Mode : 2402 TX RSE

: 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		1667.951	3.45	26.74	36.47	47.19	40.91	74.00	-33.09	peak
2		4218.186	6.50	33.47	34.48	45.97	51.46	74.00	-22.54	peak
3		4804.000	7.04	33.82	34.86	43.35	49.35	74.00	-24.65	peak
4		6213.441	8.20	35.20	35.24	44.79	52.95	74.00	-21.05	peak
5		7206.000	8.52	35.80	35.95	44.70	53.07	74.00	-20.93	peak
6	q	9608.000	10.39	37.10	35.55	41.19	53.13	74.00	-20.87	peak



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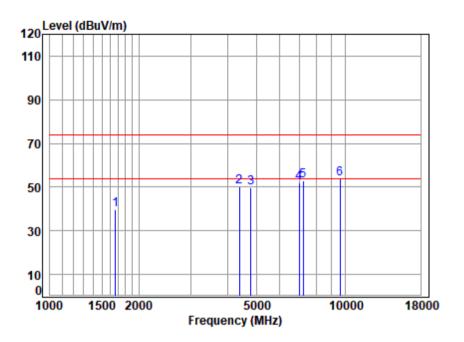


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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT

Mode : 2402 TX RSE

: BLE 2M

			211								
			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		1667.951	3.45	26.74	36.47	45.79	39.51	74.00	-34.49	peak	
2		4379.699	6.66	33.54	34.59	44.74	50.35	74.00	-23.65	peak	
3		4804.000	7.04	33.82	34.86	43.59	49.59	74.00	-24.41	peak	
4		6995.172	8.32	35.79	35.91	43.92	52.12	74.00	-21.88	peak	
5		7206.000	8.52	35.80	35.95	44.66	53.03	74.00	-20.97	peak	
6	а	9608 000	10 39	37 10	35 55	41 73	53 67	74 99	-20 33	neak	



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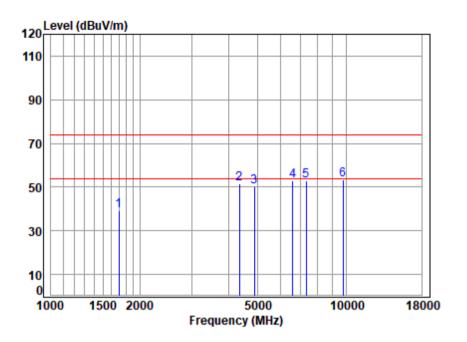


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT Mode : 2440 TX RSE

: 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		1702.042	3.49	26.80	36.40	45.57	39.46	74.00	-34.54	peak	
2		4354.454	6.63	33.59	34.58	46.10	51.74	74.00	-22.26	peak	
3		4880.000	7.11	34.06	34.91	44.13	50.39	74.00	-23.61	peak	
4		6602.265	8.26	35.60	35.58	44.81	53.09	74.00	-20.91	peak	
5		7320.000	8.62	35.90	35.97	44.56	53.11	74.00	-20.89	peak	
6	-	9760 000	10 //5	37 20	35 56	/11 22	53 31	7/ 00	-20 69	neak	



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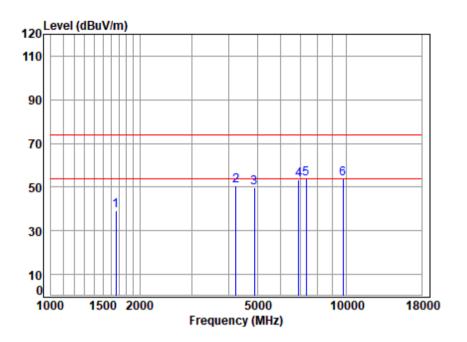


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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT

Mode : 2440 TX RSE

: 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		1658.337	3.44	26.72	36.50	45.47	39.13	74.00	-34.87	peak
2		4230.396	6.51	33.52	34.49	45.30	50.84	74.00	-23.16	peak
3		4880.000	7.11	34.06	34.91	43.40	49.66	74.00	-24.34	peak
4		6894.806	8.30	35.60	35.82	45.43	53.51	74.00	-20.49	peak
5		7320.000	8.62	35.90	35.97	45.13	53.68	74.00	-20.32	peak
6	-	9760 000								•



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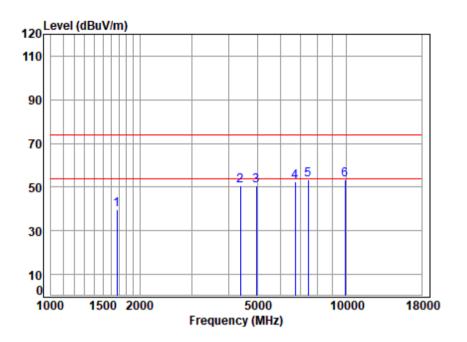


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 00736AT/00737AT Mode

: 2480 TX RSE

: BLE 2M

					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1672.779	3.46	26.75	36.46	45.75	39.50	74.00	-34.50	peak
2		4392.376	6.67	33.52	34.60	45.18	50.77	74.00	-23.23	peak
3		4960.000	7.18	34.22	34.96	44.07	50.51	74.00	-23.49	peak
4		6717.762	8.28	35.56	35.68	44.43	52.59	74.00	-21.41	peak
5		7440.000	8.73	35.90	35.99	44.61	53.25	74.00	-20.75	peak
6	q	9920.000	10.52	37.30	35.57	41.23	53.48	74.00	-20.52	peak



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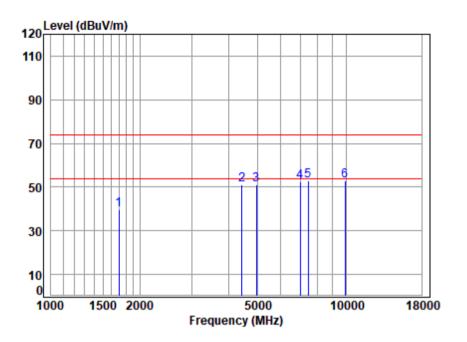


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Report No.: SZCR230300073603

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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00736AT/00737AT

Mode : 2480 TX RSE

: 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	1697.129	3.49	26.79	36.41	45.79	39.66	74.00	-34.34	peak
2	4430.628	6.71	33.50	34.63	45.52	51.10	74.00	-22.90	peak
3	4960.000	7.18	34.22	34.96	44.73	51.17	74.00	-22.83	peak
4	6974.982	8.32	35.75	35.89	44.44	52.62	74.00	-21.38	peak
5	7440.000	8.73	35.90	35.99	44.41	53.05	74.00	-20.95	peak
6	q 9920.000	10.52	37.30	35.57	40.90	53.15	74.00	-20.85	peak



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2303000736AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2303000736AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
		2402	0.399	1.250	31.92	4.96	0.03			
1M	SISO	2440	0.398	1.250	31.84	4.97	0.03			
		2480	0.399	1.250	31.92	4.96	0.01			
		2402	0.204	0.625	32.64	4.86	0.00			
2M	SISO	2440	0.230	0.625	36.80	4.34	0.03			
		2480	0.204	0.625	32.64	4.86	0.00			



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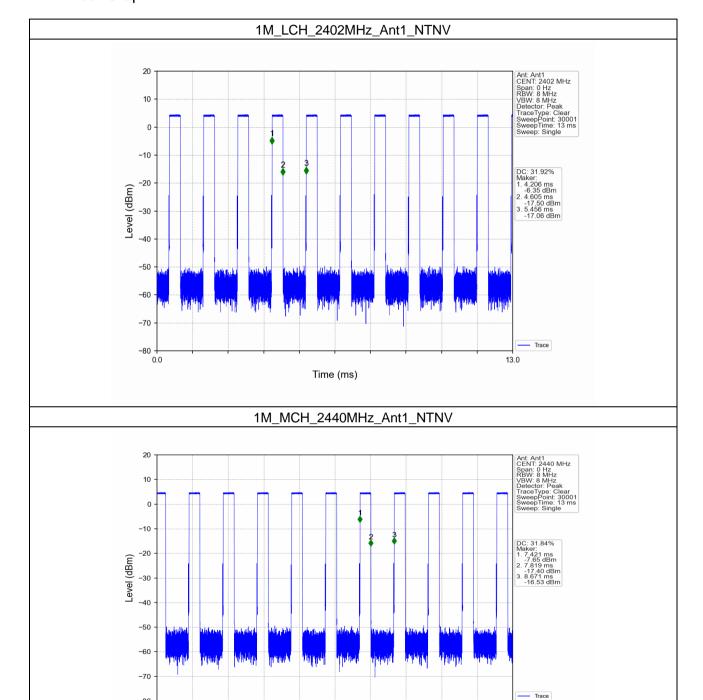


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1.1.2 Test Graph





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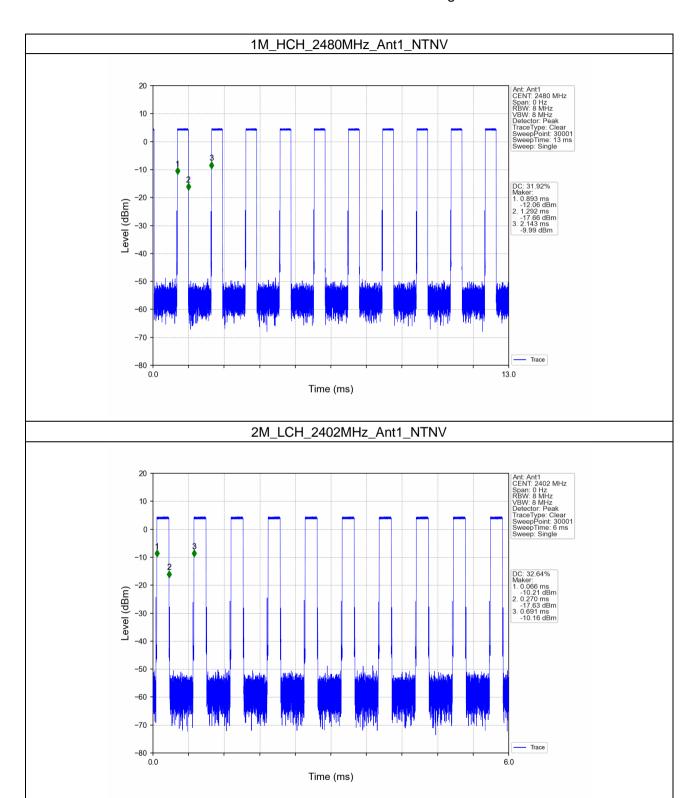
Time (ms)



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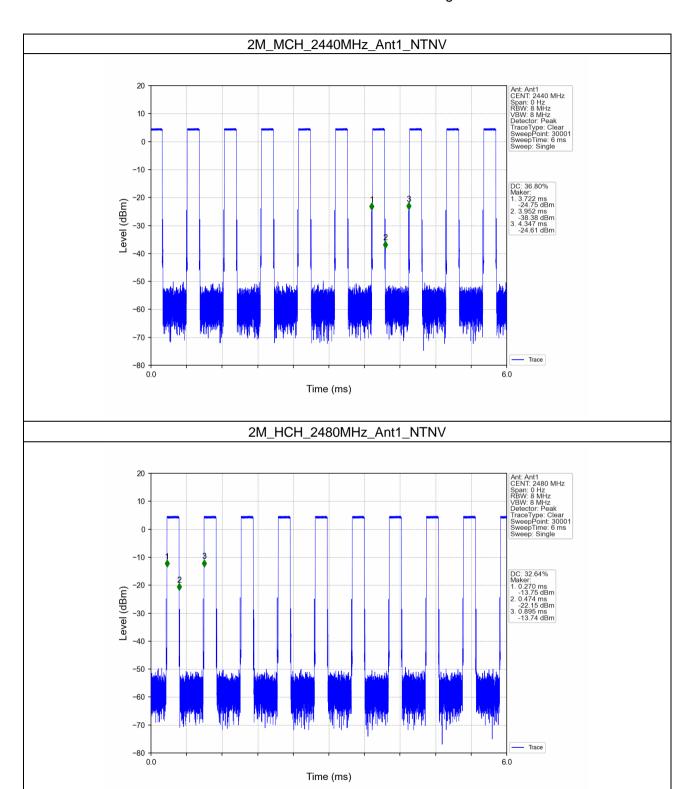
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mada	TX	Frequency	ANIT	99% Occupied Bandwidth (MHz)	\/a.rd:at
Mode	Туре	(MHz)	ANT	Result	Verdict
		2402	1	1.019	Pass
1M	SISO	2440	1	1.020	Pass
		2480	1	1.021	Pass
		2402	1	2.046	Pass
2M	SISO	2440	1	2.046	Pass
		2480	1	2.047	Pass



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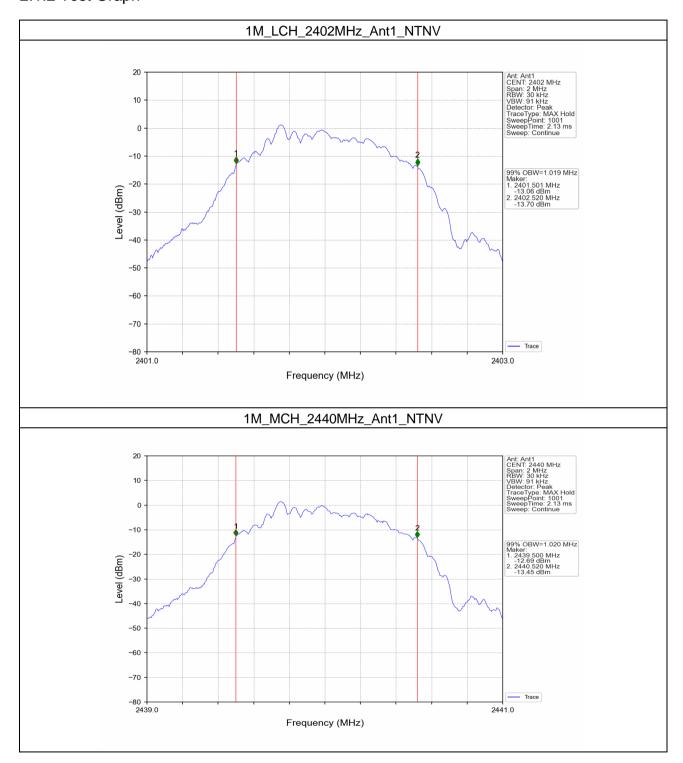


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2.1.2 Test Graph





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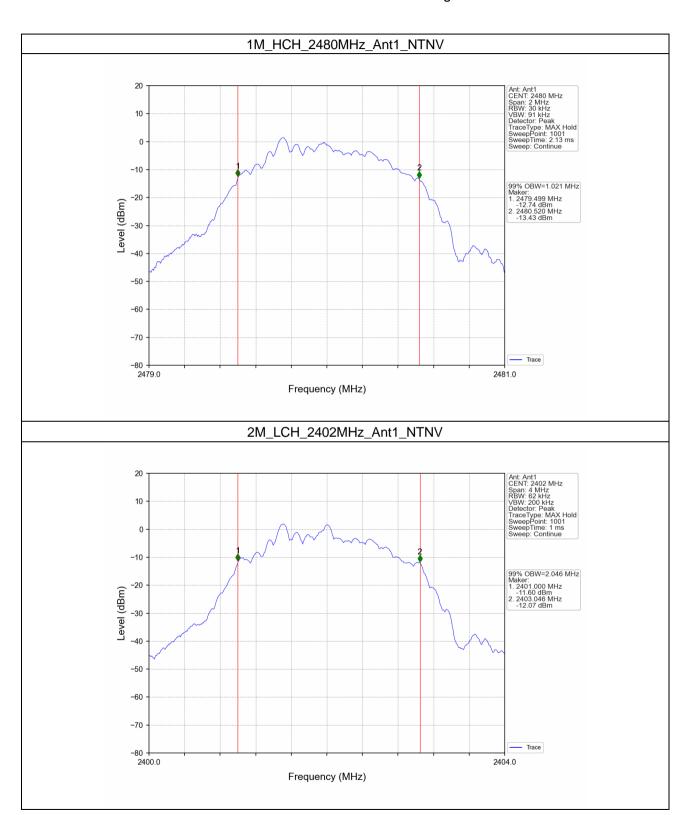
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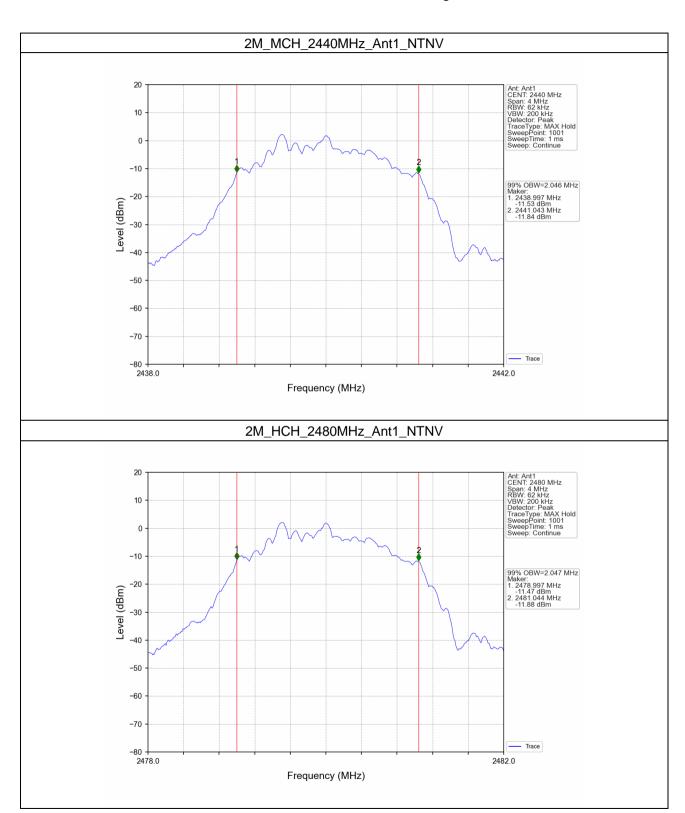
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandv	vidth (MHz)	Vordict
Mode	Туре	(MHz)	ANI	Result	Limit	Verdict
		2402	1	0.664	>=0.5	Pass
1M	SISO	2440	1	0.670	>=0.5	Pass
		2480	1	0.672	>=0.5	Pass
		2402	1	1.143	>=0.5	Pass
2M	SISO	2440	1	1.139	>=0.5	Pass
		2480	1	1.140	>=0.5	Pass



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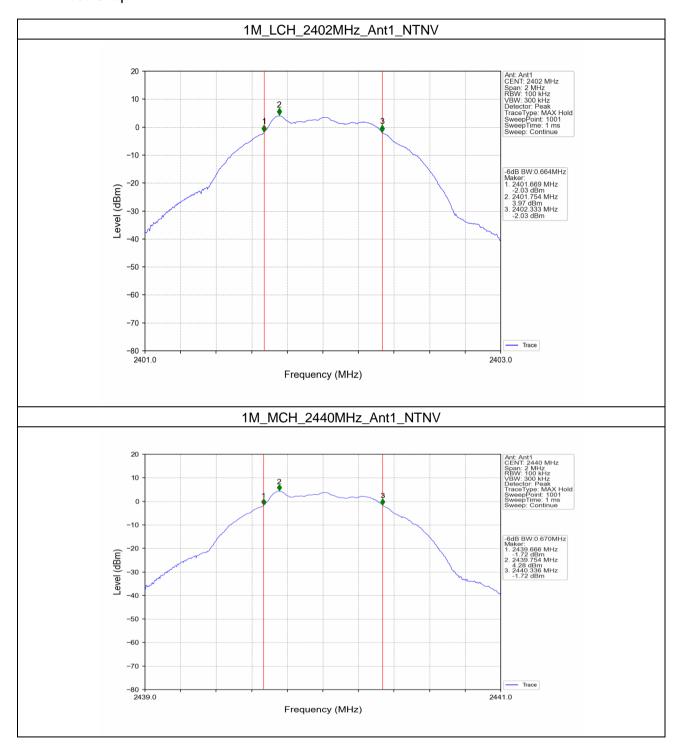


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2.2.2 Test Graph





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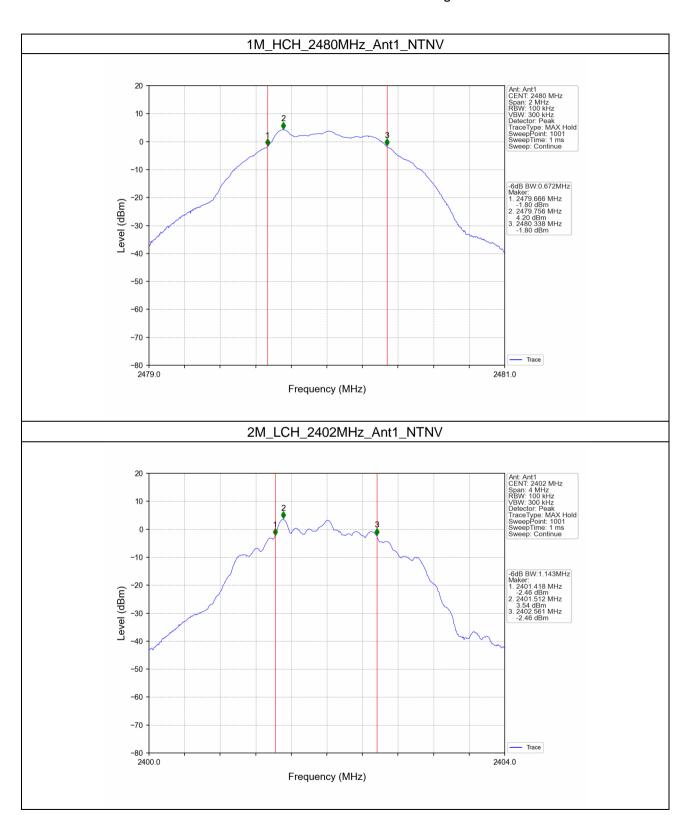
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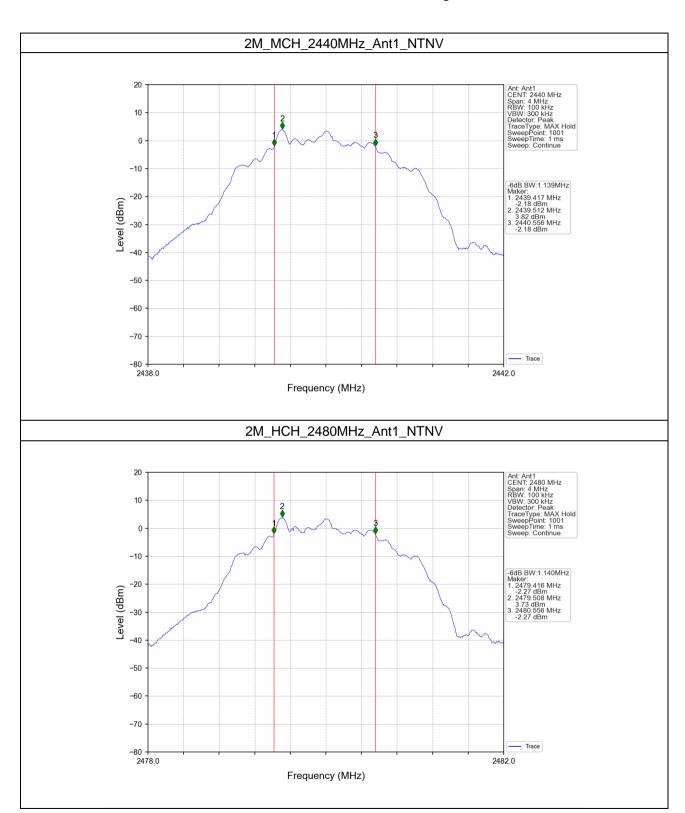
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdict			
Mode	Туре	(MHz)	ANT1	Limit	verdict			
		2402	5.75	<=30	Pass			
1M	SISO	2440	5.83	<=30	Pass			
		2480	4.66	<=30	Pass			
		2402	5.77	<=30	Pass			
2M	SISO	2440	5.82	<=30	Pass			
		2480	4.58	<=30	Pass			
Note1: Ant	Note1: Antenna Gain: Ant1: -3.00dBi;							



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PSI	Verdict				
Mode	Type	(MHz)	ANT1	Limit	verdict			
		2402	-10.83	<=8	Pass			
1M SIS	SISO	2440	-10.58	<=8	Pass			
		2480	-10.60	<=8	Pass			
		2402	-13.38	<=8	Pass			
2M	SISO	2440	-13.23	<=8	Pass			
		2480	-13.23	<=8	Pass			
Note1: Antenna Gain: Ant1: -3.00dBi;								



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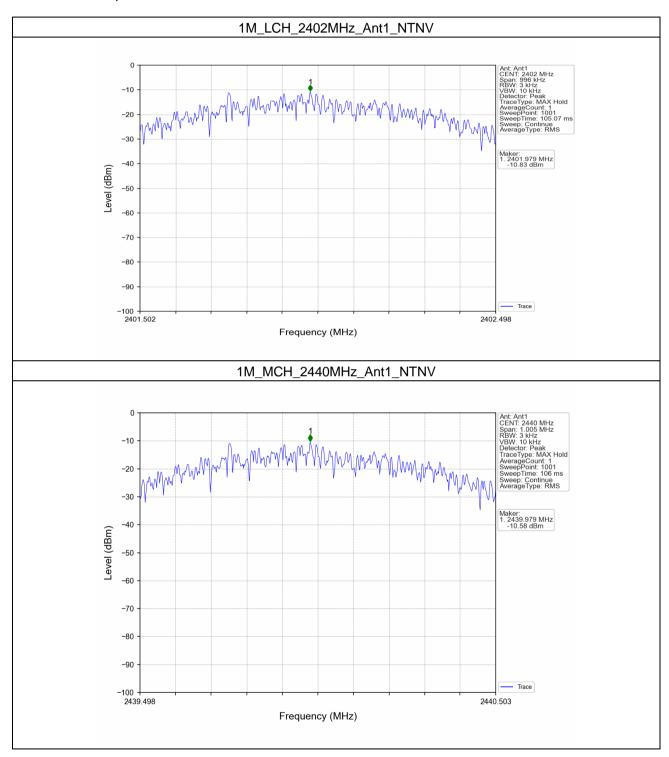


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4.1.2 Test Graph





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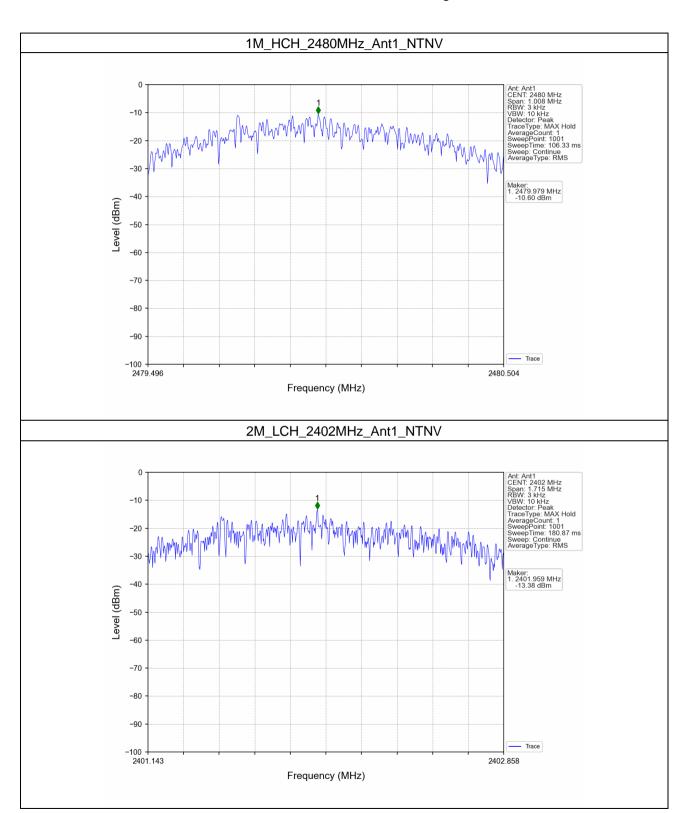
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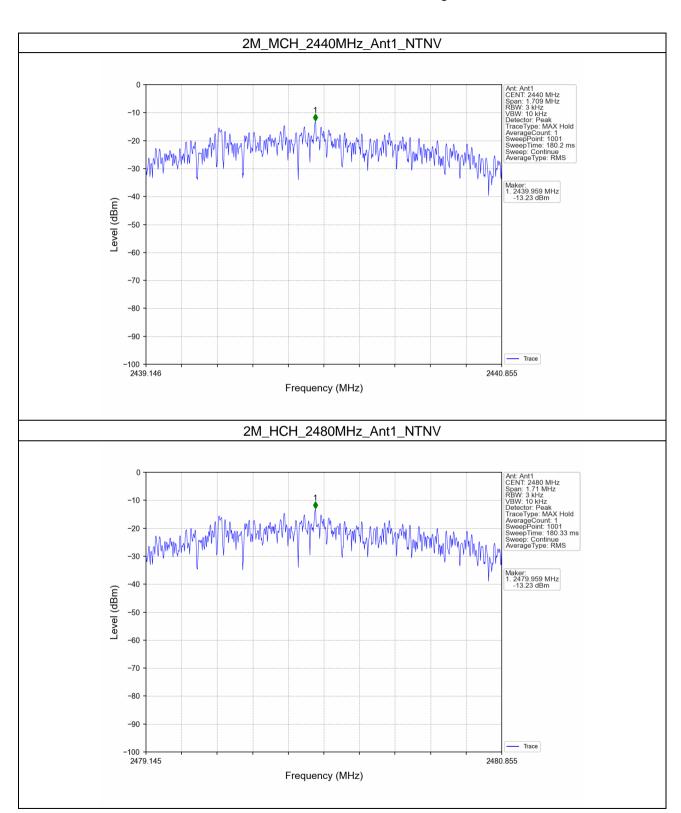
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	
1M	SISO	2402	1	3.98	
		2440	1	4.27	
		2480	1	4.22	
2M	SISO	2402	1	3.52	
		2440	1	3.80	
		2480	1	3.73	

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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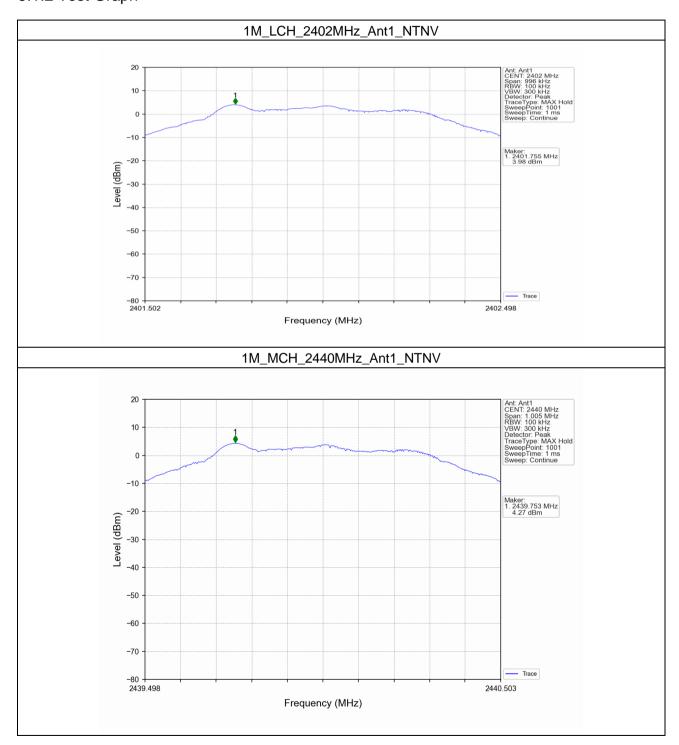


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5.1.2 Test Graph





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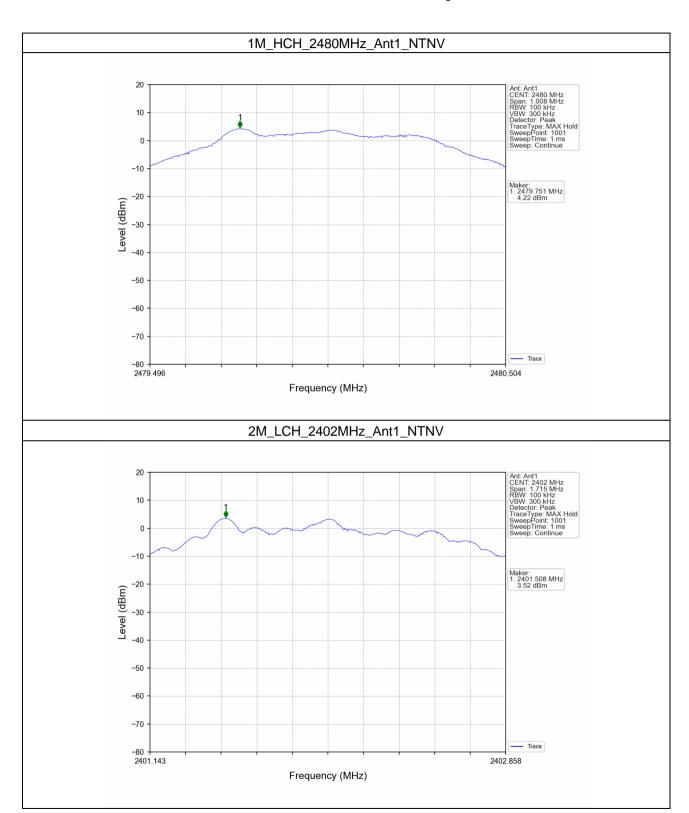
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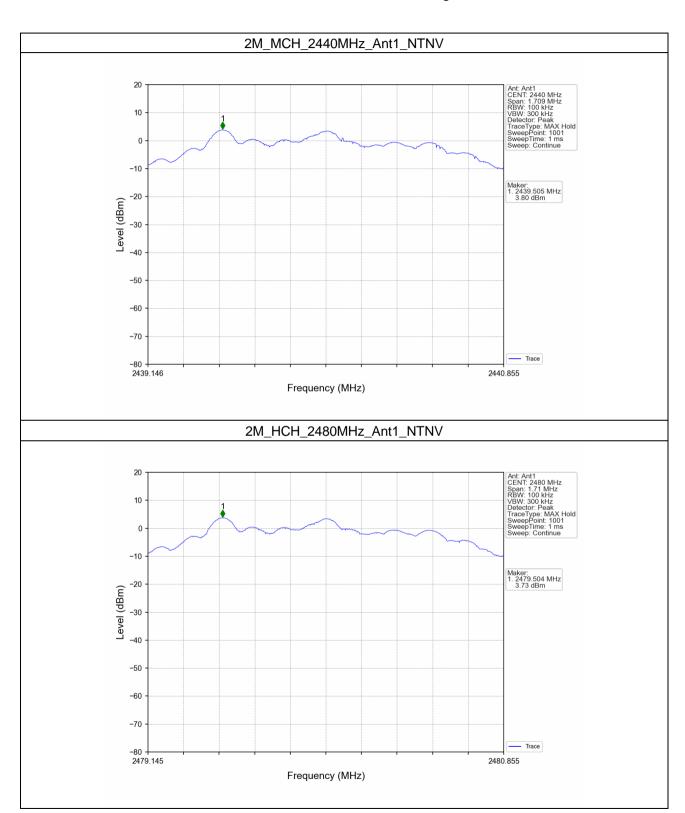
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.27	-15.73	Pass
		2440	1	4.27	-15.73	Pass
		2480	1	4.27	-15.73	Pass
2M	SISO	2402	1	3.80	-16.20	Pass
		2440	1	3.80	-16.20	Pass
		2480	1	3.80	-16.20	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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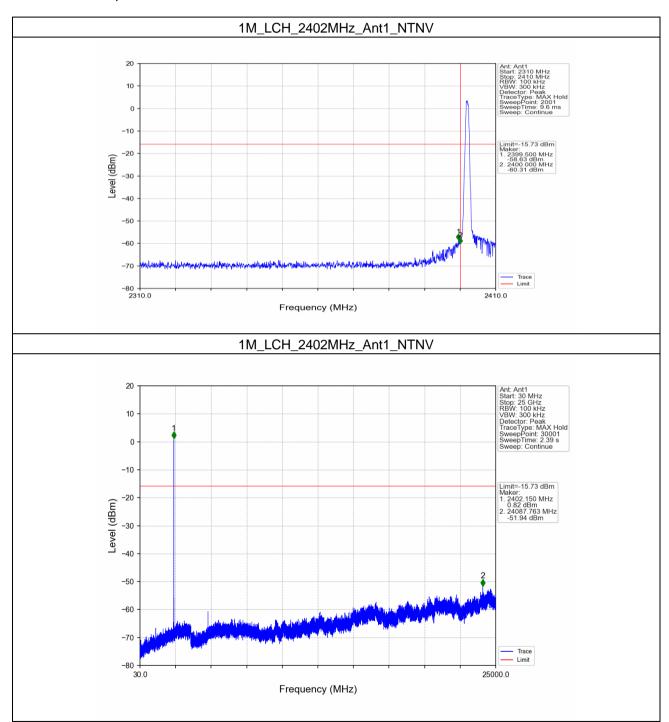


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5.2.2 Test Graph





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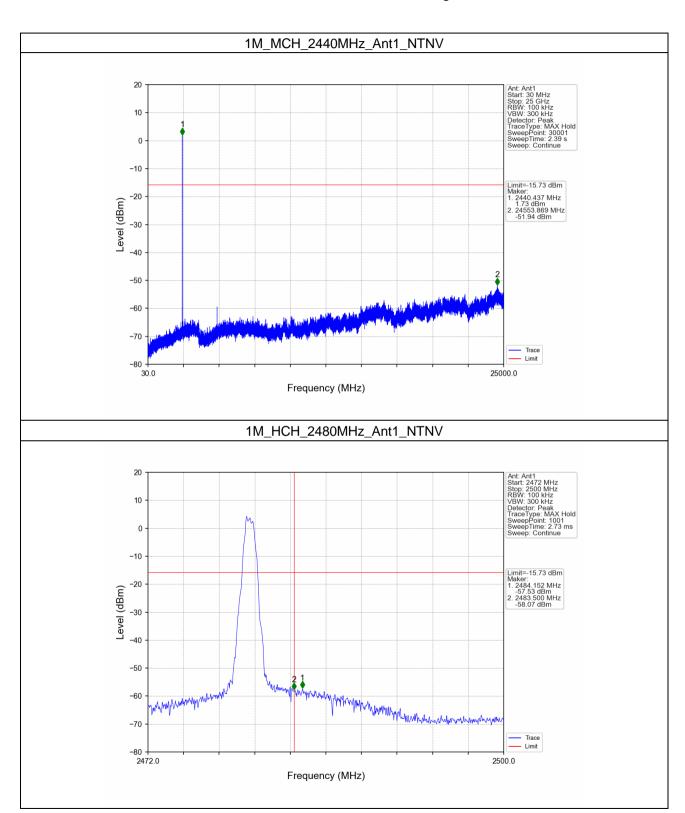
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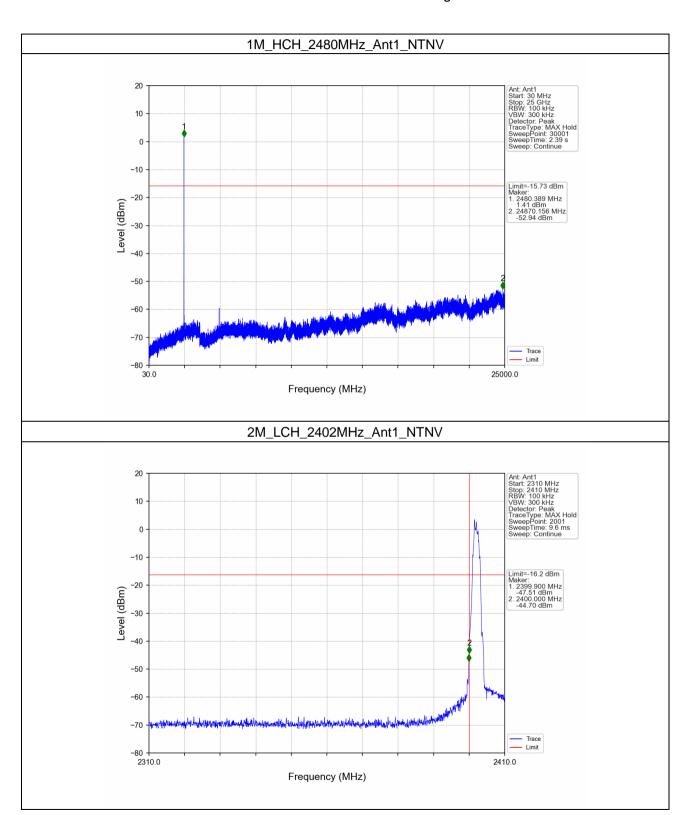
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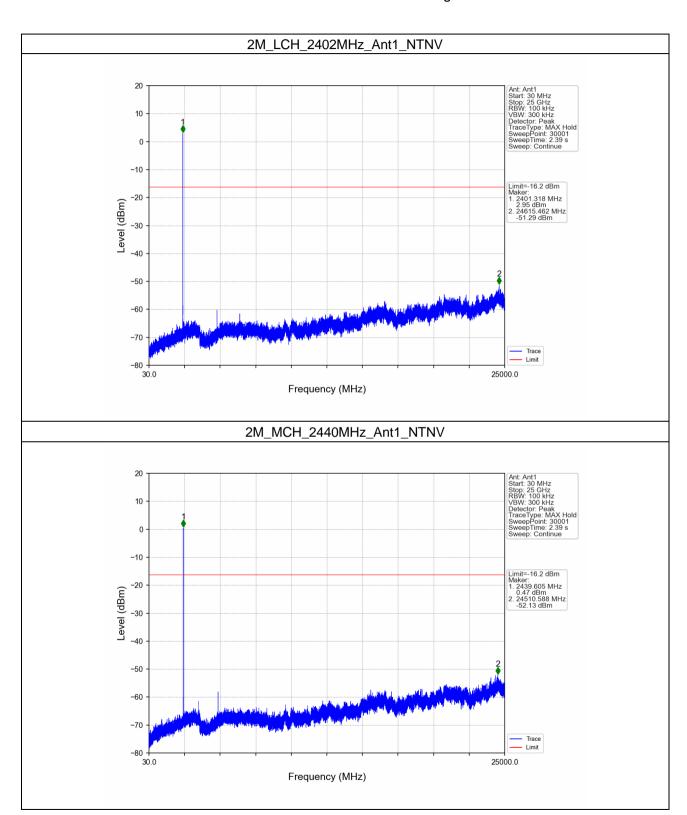
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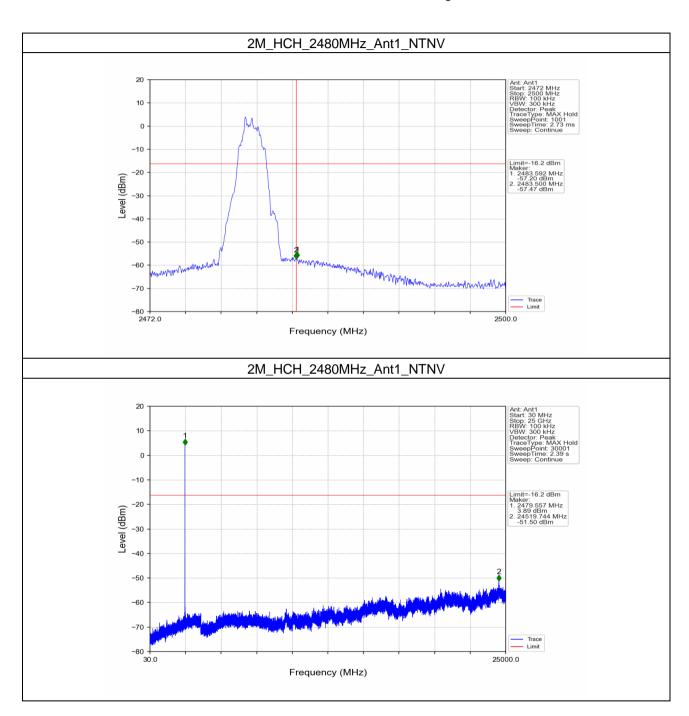
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