

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

Report No.: SZCR230500140303

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TEST REPORT

Application No.: SZCR2305001403AT

Applicant: Harman International Industries, Inc.

Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91329, United States

Manufacturer: Harman International Industries, Inc.

Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California, 91329, United States

Factory: 1. Cosonic Electroacoustic Technology Co., Ltd.

2. COSONIC VIETNAM COMPANY LIMITED

3. Jiangxi Cosonic Electroacoustic Technologies Co., Ltd.

Address of Factory: 1. No.151, Shipai Section, Dongyuan Avenue, Shipai Town, Dongguan City,

Guangdong Province, P.R.China

2. Lot C5-1, Ba Thien II Industrial Park, Thien Ke Ward, Binh Xuyen District,

Vinh Phuc Province, Vietnam

3. Shangli Industrial Park, Jinshan Town, Shangli County, Pingxiang,

337009 Jiangxi, P.R. China

Equipment Under Test (EUT):

EUT Name: Bluetooth headset

Model No.: LIVE670NC

Trade Mark: JBL

FCC ID: APILIVE670NC

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

Date of Receipt: 2023-05-10

Date of Test: 2023-05-16 to 2023-05-18

Date of Issue: 2023-05-24

Test Result: Pass*

Keny Xu 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 Remark						
01		2023-05-24		Original			

Authorized for issue by:			
	Bonson Wong		
	Benson Wang/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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2 **Test Summary**

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Resul						
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		
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		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		



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4 General Information

4.1 Details of E.U.T.

Rechargeable battery: 3.7V 850mAh (Charged by USB port)		
USB cable: 27cm unshielded		
AUX in cable: 131cm unshielded		
2402MHz to 2480MHz (BLE 1M/bits)		
2404MHz to 2478MHz (BLE 2M/bits)		
V5.3 Dual mode		
Support 1M/2M bits		
GFSK		
40		
2MHz		
FPC Antenna		
2.83dBi		

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
		-				
The EUT has been tested as an independent unit.						

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

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



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4.4 Test Location

All tests were performed at:

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.

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

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	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 Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07	

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	



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Conducted Peak Output Power									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31				
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20				
DC Power Supply	Chroma	62012P-80-60	12P-80-60 SEM011-11 2022		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	N/A 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-		2023-07-07			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30			

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-		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 V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		



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Attenuator Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
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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	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			

General used equipment							
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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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.83dBi.

Antenna location: Refer to internal photos.



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7 **Radio Spectrum Matter Test Results**

7.1 Radiated Emissions which fall in the restricted bands

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.

7.1.1 E.U.T. Operation

Operating Environment:

Humidity: 60.0 % RH Temperature: 20.9 °C Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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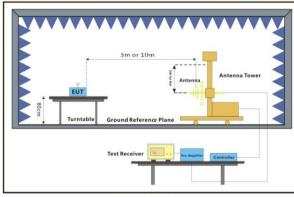


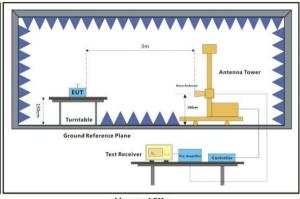
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7.1.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.1.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position
- 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, guasi-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.
- i. 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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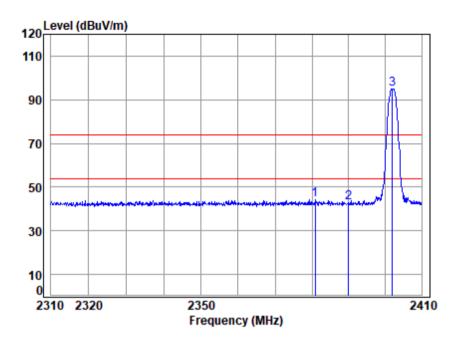


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT 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	2380.865	4.24	28.72	35.64	46.98	44.30	74.00	-29.70	peak
2	2390.000	4.25	28.76	35.64	45.37	42.74	74.00	-31.26	peak
3	q 2402.000	4.26	28.81	35.64	97.53	94.96	74.00	20.96	peak



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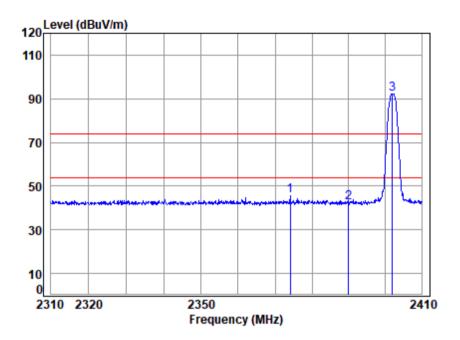


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT 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	2374.115	4.23	28.70	35.65	48.32	45.60	74.00	-28.40	peak
2	2390.000	4.25	28.76	35.64	45.20	42.57	74.00	-31.43	peak
3 q	2402.000	4.26	28.81	35.64	94.83	92.26	74.00	18.26	peak



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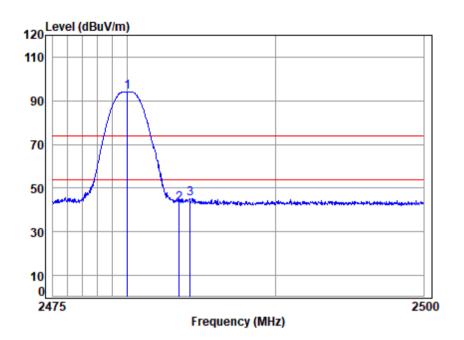


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT 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	d Bu V/m	dBuV/m	dB		
1	q	2480.000	4.34	29.28	35.61	96.17	94.18	74.00	20.18	peak	
2		2483.500	4.34	29.30	35.61	44.98	43.01	74.00	-30.99	peak	
3		2484.221	4.34	29.31	35.61	47.28	45.32	74.00	-28.68	peak	



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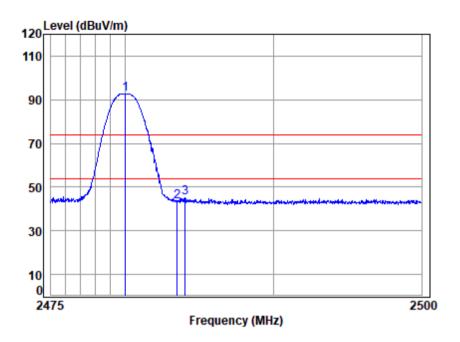


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT Mode : 2480 Band edge

Note : BLE 1M

	Enoa			Preamp Factor					
		LUSS							
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2480.000	4.34	29.28	35.61	94.67	92.68	74.00	18.68	peak
2	2483.500	4.34	29.30	35.61	45.47	43.50	74.00	-30.50	peak
3	2484.021	4.34	29.30	35.61	46.94	44.97	74.00	-29.03	peak



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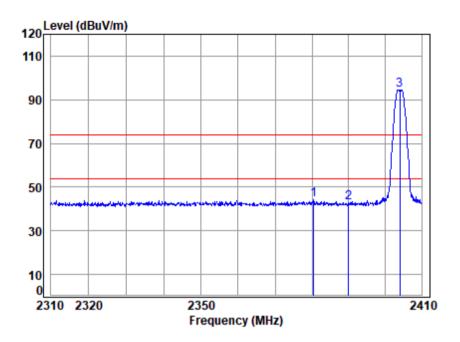


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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT Mode : 2404 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	2380.461	4.24	28.72	35.64	46.98	44.30	74.00	-29.70	peak	
2	2390.000	4.25	28.76	35.64	45.39	42.76	74.00	-31.24	peak	
3 q	2404.000	4.26	28.81	35.64	97.12	94.55	74.00	20.55	peak	



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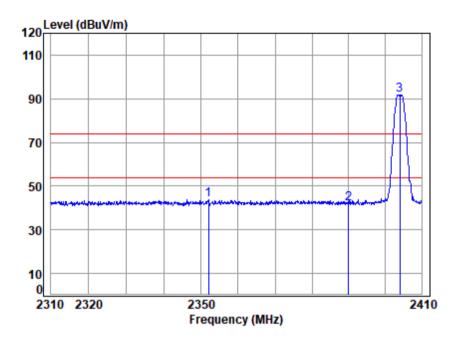


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT Mode : 2404 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	2351.983	4.21	28.61	35.65	46.44	43.61	74.00	-30.39	peak	
2	2390.000	4.25	28.76	35.64	44.40	41.77	74.00	-32.23	peak	
3	q 2404.000	4.26	28.81	35.64	94.26	91.69	74.00	17.69	peak	



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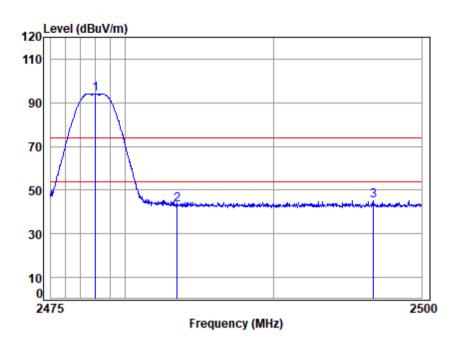


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT Mode : 2478 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	2478.000	4.34	29.28	35.61	96.07	94.08	74.00	20.08	peak	
2		2483.500	4.34	29.30	35.61	45.45	43.48	74.00	-30.52	peak	
3		2496.736	4.36	29.38	35.60	47.10	45.24	74.00	-28.76	peak	



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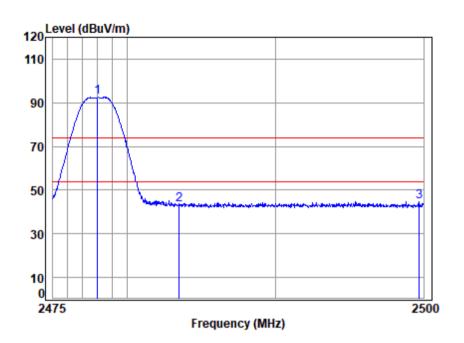


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT Mode : 2478 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	2478.000	4.34	29.28	35.61	94.47	92.48	74.00	18.48	peak	
2	2483.500	4.34	29.30	35.61	45.20	43.23	74.00	-30.77	peak	
3	2/199 698	4 36	29 40	35 60	16 70	11 86	7/ 00	-29 1/	neak	



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7.2 Radiated Spurious Emissions Below 1GHz

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

ANSI C63.10 (2013) Section 6.4,6.5 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
960-1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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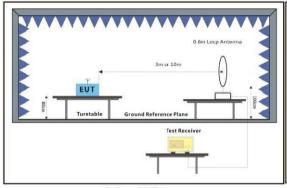


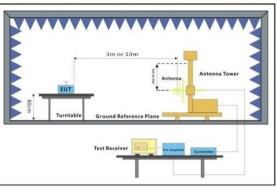
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7.2.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz

7.2.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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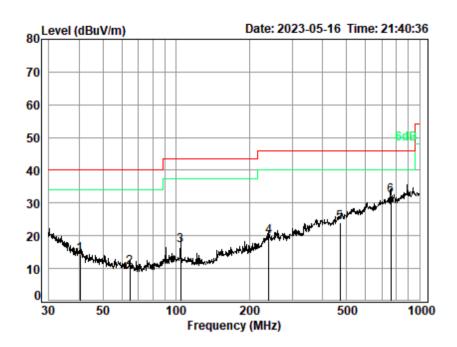


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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01403AT

Test Mode: 02

: 4#

		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	40.28	15.31	0.67	27.20	25.56	14.34	40.00	-25.66	QP
2	64.66	10.68	0.89	27.12	26.01	10.46	40.00	-29.54	QP
3	104.17	12.96	1.16	26.98	29.97	17.11	43.50	-26.39	QP
4	239.99	17.80	1.86	26.44	26.41	19.63	46.00	-26.37	QP
5	472.18	22.93	2.72	26.72	25.22	24.15	46.00	-21.85	QP
6 a		26 63	3 57	26 46	28 63	32 37	46 99	-13 63	OP



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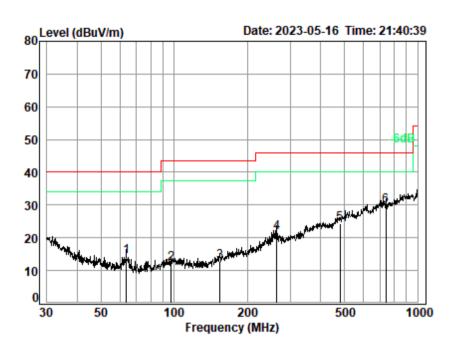


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Test Mode: 02; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

: 01403AT Job No.

Test Mode: 02 : 4#

		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	63.54	10.80	0.88	27.12	29.89	14.45	40.00	-25.55	QP
2	97.46	12.91	1.13	27.01	25.04	12.07	43.50	-31.43	QP
3	154.28	13.57	1.44	26.78	24.66	12.89	43.50	-30.61	QP
4	263.82	17.85	1.96	26.34	28.12	21.59	46.00	-24.41	QP
5	480.53	23.19	2.75	26.74	25.10	24.30	46.00	-21.70	QP
6 q	742.26	26.75	3.53	26.53	26.12	29.87	46.00	-16.13	OP



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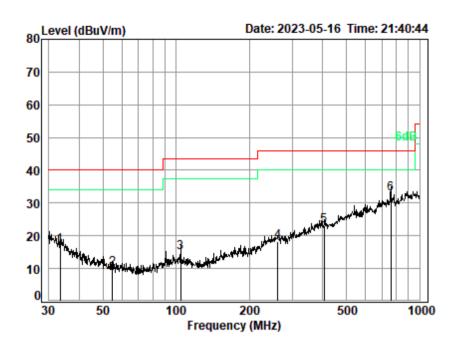


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Test Mode: 03; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01403AT

Test Mode: 03

: 4#

	Freq	Ant Factor		Preamp Factor					Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.33	19.32	0.64	27.22	24.25	16.99	40.00	-23.01	QP
2	54.64	11.94	0.82	27.15	24.46	10.07	40.00	-29.93	QP
3	104.17	12.96	1.16	26.98	27.85	14.99	43.50	-28.51	QP
4	261.06	17.87	1.95	26.36	24.74	18.20	46.00	-27.80	QP
5	406.09	21.38	2.50	26.52	25.73	23.09	46.00	-22.91	QP
6 q	760.70	26.63	3.57	26.46	29.19	32.93	46.00	-13.07	QP



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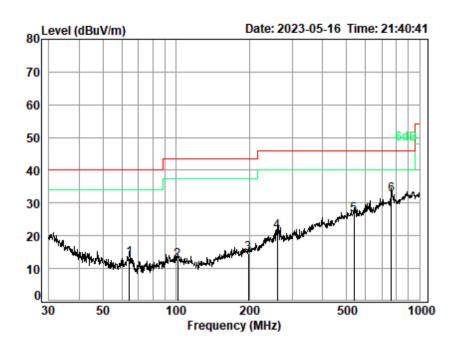


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Test Mode: 03; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 01403AT

Test Mode: 03 : 4#

> 1 2 3

5

	Freq	Ant Factor				Level			Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
	64.21	10.72	0.89	27.12	28.64	13.13	40.00	-26.87	QP
	101.29	13.00	1.15	26.99	25.22	12.38	43.50	-31.12	QP
	197.89	14.35	1.68	26.61	25.06	14.48	43.50	-29.02	QP
	260.14	17.87	1.95	26.36	27.88	21.34	46.00	-24.66	QP
	537.59	24.32	2.93	26.91	26.14	26.48	46.00	-19.52	QP
q	766.06	26.65	3.58	26.44	28.76	32.55	46.00	-13.45	QP



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7.3 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

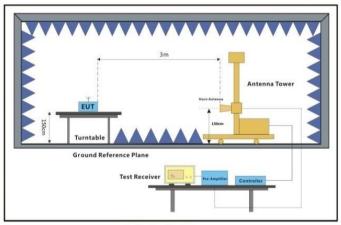
Operating Environment:

20.9 °C Temperature: Humidity: 60.0 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



Above 1GHz



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7.3.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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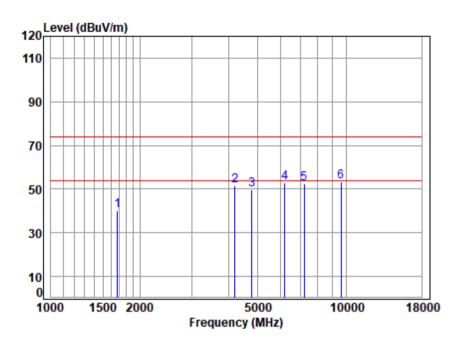


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT 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	1682.477	3.47	26.77	36.44	46.39	40.19	74.00	-33.81	peak
2	4206.011	6.49	33.42	34.48	46.10	51.53	74.00	-22.47	peak
3	4804.000	7.04	33.82	34.86	43.58	49.58	74.00	-24.42	peak
4	6195.508	8.19	35.20	35.22	44.80	52.97	74.00	-21.03	peak
5	7206.000	8.52	35.80	35.95	44.17	52.54	74.00	-21.46	peak
6 (q 9608.000	10.39	37.10	35.55	41.35	53.29	74.00	-20.71	peak



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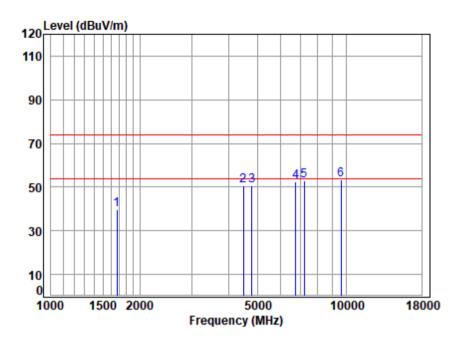


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT

Mode : 2402 TX RSE

: BLE 1M

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1		1672.779	3.46	26.75	36.46	46.10	39.85	74.00	-34.15	peak
2		4482.150			34.66					•
3		4804.000	7.04	33.82	34.86	44.52	50.52	74.00	-23.48	peak
4		6756.708	8.28	35.50	35.71	44.23	52.30	74.00	-21.70	peak
5		7206.000	8.52	35.80	35.95	44.51	52.88	74.00	-21.12	peak
6	q	9608.000	10.39	37.10	35.55	41.29	53.23	74.00	-20.77	peak



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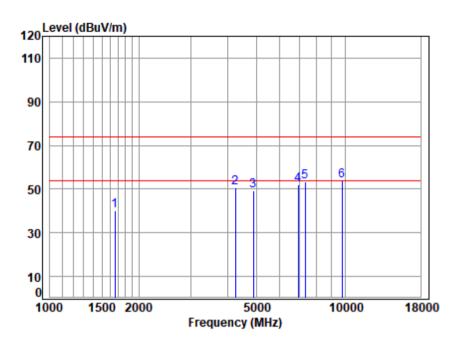


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT 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	1658.337	3.44	26.72	36.50	46.52	40.18	74.00	-33.82	peak
2	4254.921	6.54	33.60	34.51	45.17	50.80	74.00	-23.20	peak
3	4880.000	7.11	34.06	34.91	42.95	49.21	74.00	-24.79	peak
4	6934.778	8.31	35.67	35.86	43.95	52.07	74.00	-21.93	peak
5	7320.000	8.62	35.90	35.97	44.75	53.30	74.00	-20.70	peak
6	q 9760.000	10.45	37.20	35.56	41.67	53.76	74.00	-20.24	peak



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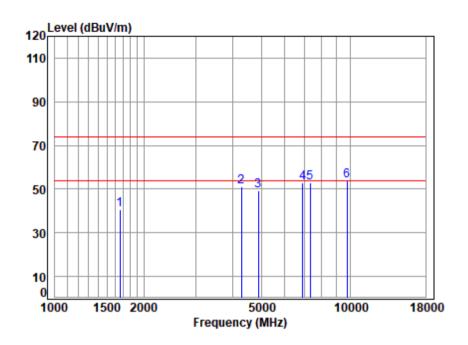


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Report No.: SZCR230500140303

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT

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	1658.337	3.44	26.72	36.50	47.11	40.77	74.00	-33.23	peak
2	4291.977	6.57	33.60	34.54	45.26	50.89	74.00	-23.11	peak
3	4880.000	7.11	34.06	34.91	42.91	49.17	74.00	-24.83	peak
4	6914.763	8.31	35.63	35.84	44.92	53.02	74.00	-20.98	peak
5	7320.000	8.62	35.90	35.97	44.42	52.97	74.00	-21.03	peak
6	9760 000	10 //5	37 20	35 56	<i>1</i> 1 86	53 95	7/ 00	-20 05	neak



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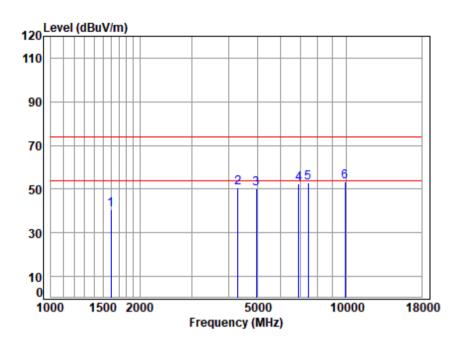


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT 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	1597.181	3.37	26.47	36.64	47.29	40.49	74.00	-33.51	peak
2	4304.400	6.59	33.60	34.54	45.03	50.68	74.00	-23.32	peak
3	4960.000	7.18	34.22	34.96	43.71	50.15	74.00	-23.85	peak
4	6914.763	8.31	35.63	35.84	44.27	52.37	74.00	-21.63	peak
5	7440.000	8.73	35.90	35.99	44.28	52.92	74.00	-21.08	peak
6	q 9920.000	10.52	37.30	35.57	41.05	53.30	74.00	-20.70	peak



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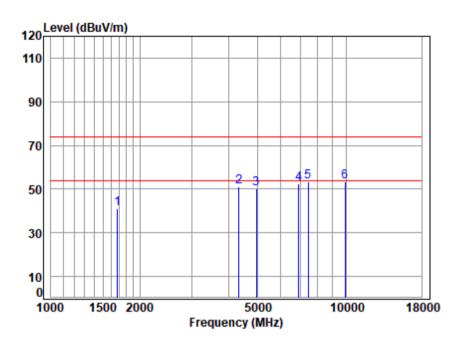


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT

Mode : 2480 TX RSE

: BLE 1M

	F			Preamp					DI-
	Freq	LOSS	Factor	Factor	revel	rever	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.46	26.76	36.45	47.23	41.00	74.00	-33.00	peak
2	4341.886	6.62	33.60	34.57	45.51	51.16	74.00	-22.84	peak
3	4960.000	7.18	34.22	34.96	43.88	50.32	74.00	-23.68	peak
4	6914.763	8.31	35.63	35.84	44.27	52.37	74.00	-21.63	peak
5 q	7440.000	8.73	35.90	35.99	44.67	53.31	74.00	-20.69	peak
6	9920.000	10.52	37.30	35.57	41.05	53.30	74.00	-20.70	peak



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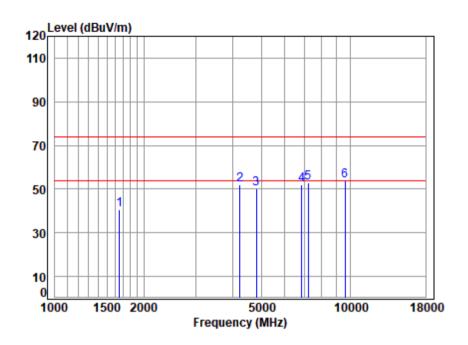


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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT Mode : 2404 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	l	1653.550	3.43	26.71	36.51	46.78	40.41	74.00	-33.59	peak
2	2	4230.396	6.51	33.52	34.49	46.27	51.81	74.00	-22.19	peak
3	3	4808.000	7.05	33.83	34.87	43.97	49.98	74.00	-24.02	peak
4	1	6855.063	8.30	35.60	35.79	43.98	52.09	74.00	-21.91	peak
	5	7212.000	8.52	35.80	35.95	44.71	53.08	74.00	-20.92	peak
6	5 q	9616.000	10.39	37.10	35.55	41.74	53.68	74.00	-20.32	peak



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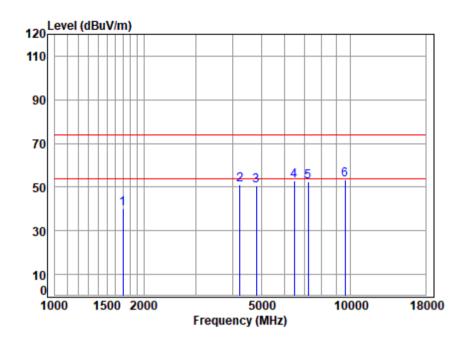


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT

Mode : 2404 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	1702.042	3.49	26.80	36.40	46.35	40.24	74.00	-33.76	peak	
2	4230.396	6.51	33.52	34.49	45.46	51.00	74.00	-23.00	peak	
3	4808.000	7.05	33.83	34.87	44.45	50.46	74.00	-23.54	peak	
4	6470.026	8.24	35.44	35.47	44.49	52.70	74.00	-21.30	peak	
5	7212.000	8.52	35.80	35.95	44.24	52.61	74.00	-21.39	peak	
	a 9616 000	10 39	37 10	35 55	41 60	53 54	74 99	-20 46	neak	



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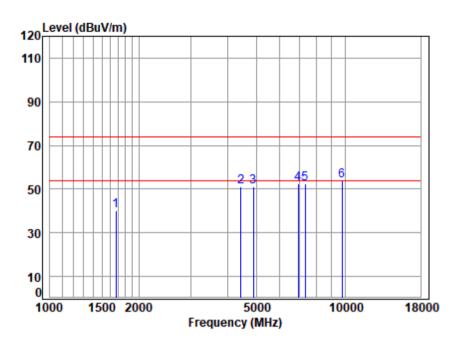


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT 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	1672.779	3.46	26.75	36.46	46.61	40.36	74.00	-33.64	peak
2	4443.453	6.72	33.50	34.64	45.72	51.30	74.00	-22.70	peak
3	4880.000	7.11	34.06	34.91	44.77	51.03	74.00	-22.97	peak
4	6934.778	8.31	35.67	35.86	44.37	52.49	74.00	-21.51	peak
5	7320.000	8.62	35.90	35.97	43.78	52.33	74.00	-21.67	peak
6	9760 000	10 //5	37 20	35 56	/11 8/	53 93	7/ 00	-20 07	neak



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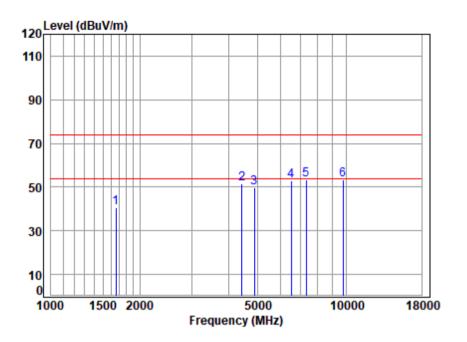


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT

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	46.83	40.49	74.00	-33.51	peak
2	4430.628	6.71	33.50	34.63	46.10	51.68	74.00	-22.32	peak
3	4880.000	7.11	34.06	34.91	43.70	49.96	74.00	-24.04	peak
4	6507.536	8.24	35.52	35.50	44.68	52.94	74.00	-21.06	peak
5	7320.000	8.62	35.90	35.97	44.64	53.19	74.00	-20.81	peak
6	q 9760.000	10.45	37.20	35.56	41.14	53.23	74.00	-20.77	peak



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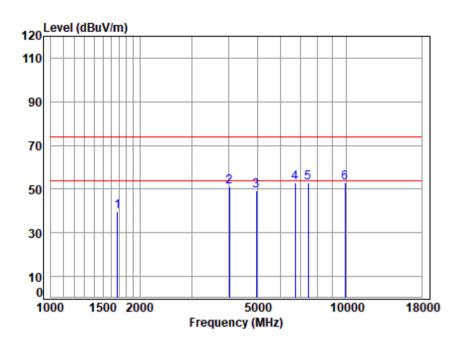


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 01403AT/01404AT Mode : 2478 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		1682.477	3.47	26.77	36.44	45.92	39.72	74.00	-34.28	peak
2		4027.554	6.31	32.81	34.35	46.14	50.91	74.00	-23.09	peak
3		4956.000	7.17	34.21	34.95	42.71	49.14	74.00	-24.86	peak
4		6717.762	8.28	35.56	35.68	44.77	52.93	74.00	-21.07	peak
5		7434.000	8.73	35.90	35.99	44.08	52.72	74.00	-21.28	peak
6	q	9912.000	10.51	37.30	35.57	40.83	53.07	74.00	-20.93	peak



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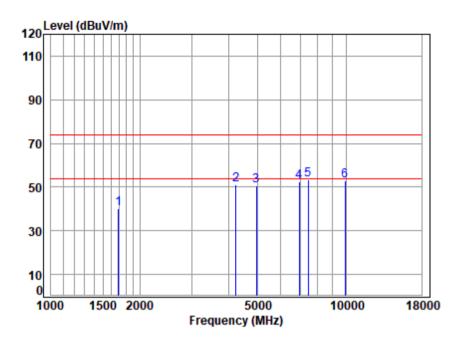


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01403AT/01404AT

Mode : 2478 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		1692.231	3.48	26.78	36.42	46.32	40.16	74.00	-33.84	peak
2		4230.396	6.51	33.52	34.49	45.70	51.24	74.00	-22.76	peak
3		4956.000	7.17	34.21	34.95	44.41	50.84	74.00	-23.16	peak
4		6934.778	8.31	35.67	35.86	44.53	52.65	74.00	-21.35	peak
5	q	7434.000	8.73	35.90	35.99	44.67	53.31	74.00	-20.69	peak
6		9912.000	10.51	37.30	35.57	40.80	53.04	74.00	-20.96	peak



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7.4 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C Humidity: 46.8 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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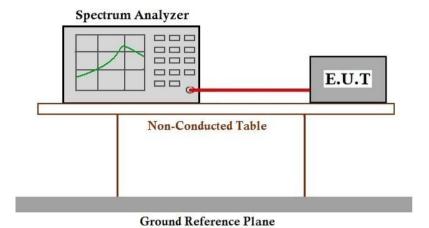


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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.5 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

7.5.1 E.U.T. Operation

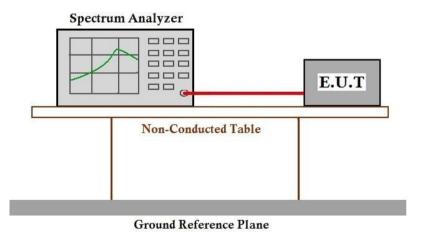
Operating Environment:

27.2 °C Temperature: Humidity: 46.8 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	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 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) ANSI C63.10 (2013) Section 11.10.2 Test Method:

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.6.1 E.U.T. Operation

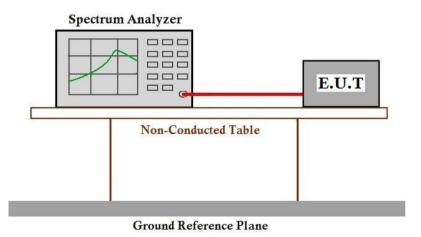
Operating Environment:

27.2 °C Temperature: Humidity: 46.8 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 Conducted Band Edges Measurement

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

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1015 mbar 27.2 °C Humidity: 46.8 % RH

7.7.2 Test Mode Description

7.7.2 103010	1.7.2 Test mode bescription									
Pre-scan / Final test	Mode Code	Description								
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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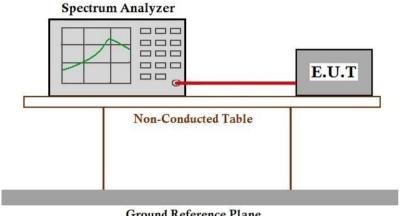


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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Conducted Spurious Emissions

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

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1015 mbar 27.2 °C Humidity: 46.8 % RH

7.8.2 Test Mode Description

7.0.2 103010	7.0.2 Test mode bescription									
Pre-scan / Final test	Mode Code	Description								
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								



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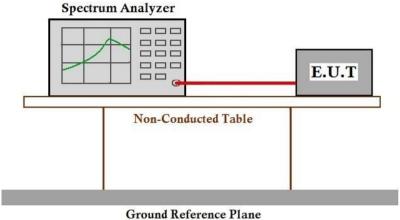


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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2305001403AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2305001403AT.



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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	0.431	0.625	68.96	1.61	0.02					
1M	SISO	2440	0.431	0.625	68.96	1.61	0.06					
		2480	0.431	0.625	68.96	1.61	0.00					
		2404	0.247	0.625	39.52	4.03	0.02					
2M	SISO	2440	0.247	0.625	39.52	4.03	0.00					
		2478	0.247	0.625	39.52	4.03	0.00					



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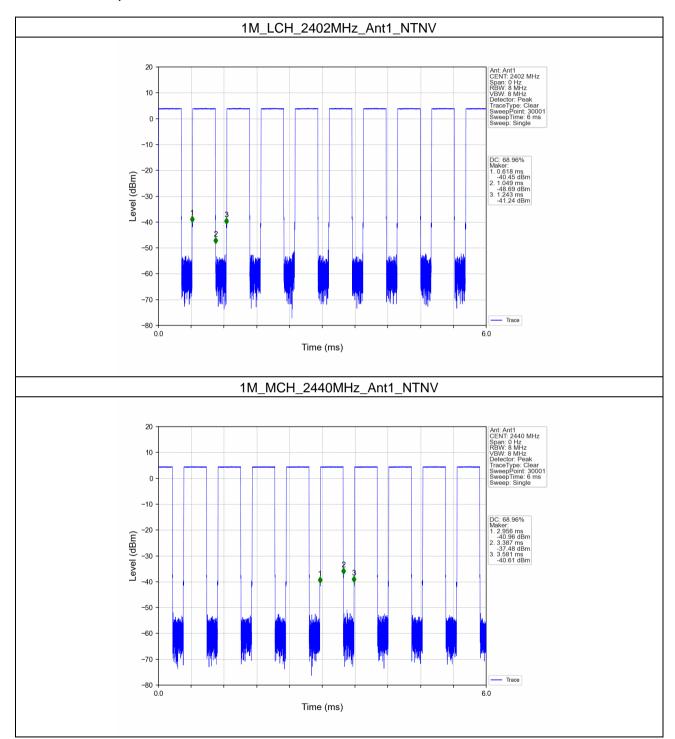


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1.1.2 Test Graph





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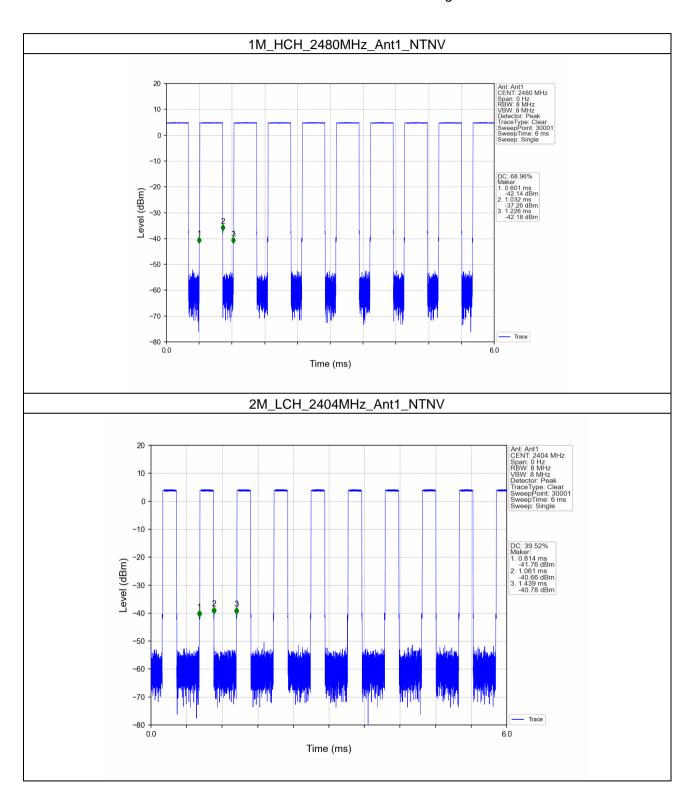
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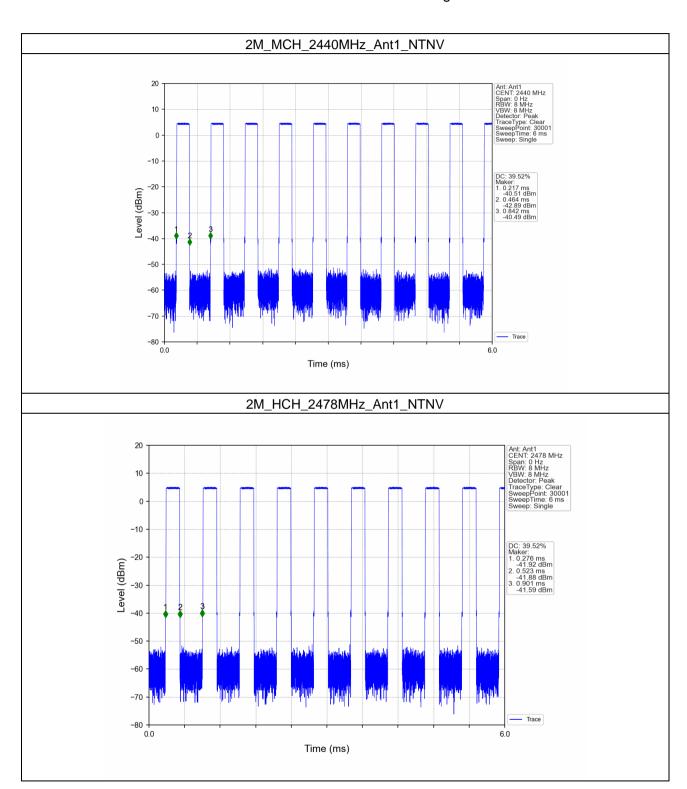
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Vondint
				Result	Verdict
	2402 1 1.0		1.007	Pass	
1M	SISO	2440	1	1.009	Pass
		2480	1	1.009	Pass
2M		2404	1	2.004	Pass
	SISO	2440	1	2.004	Pass
		2478	1	2.006	Pass



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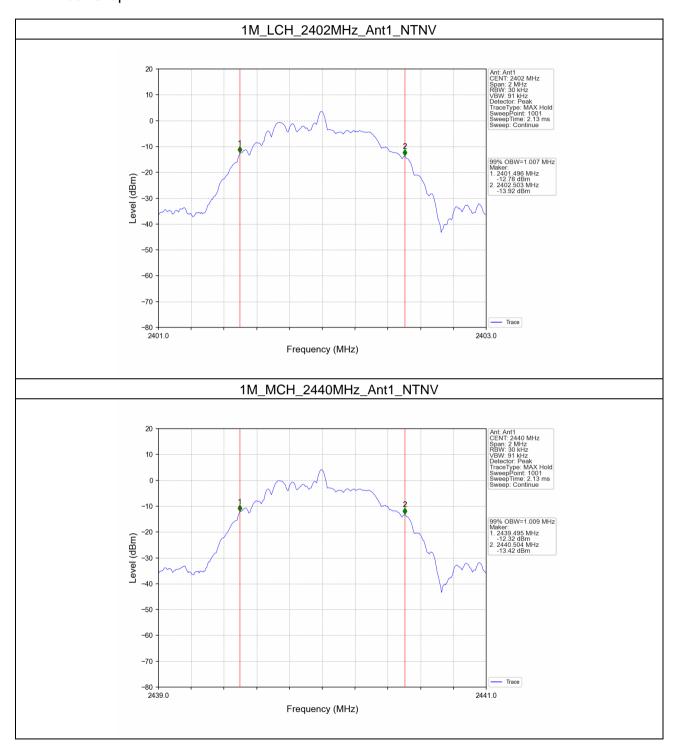


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2.1.2 Test Graph





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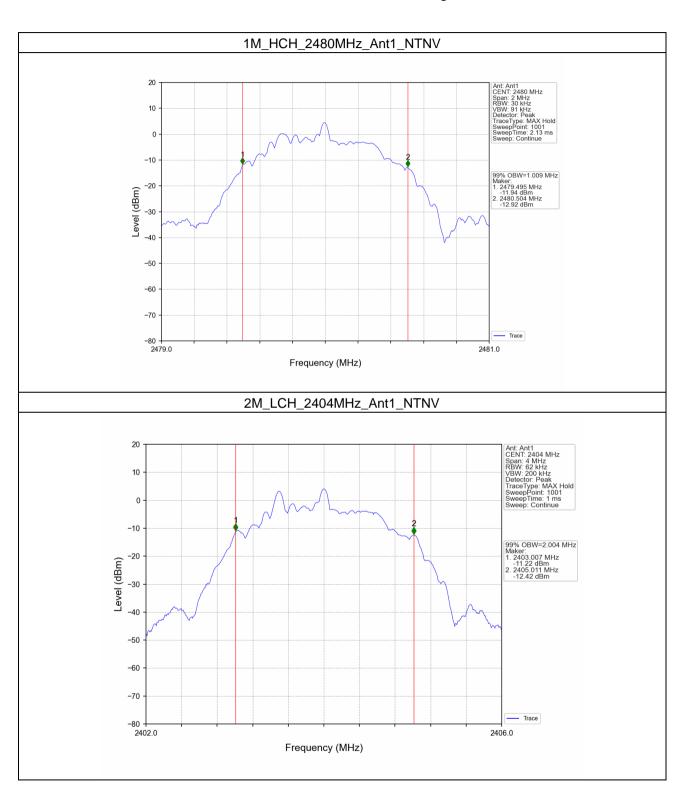
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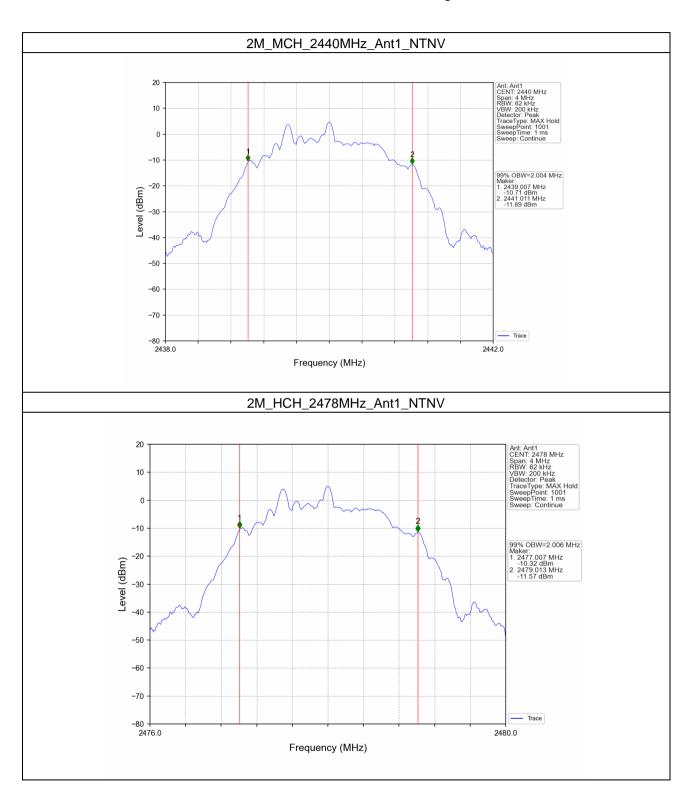
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		\/o.rdi.o.t
				Result	Limit	Verdict
1M		2402	1	0.661	>=0.5	Pass
	SISO	2440	1	0.663	>=0.5	Pass
		2480	1	0.663	>=0.5	Pass
2M		2404	1	1.149	>=0.5	Pass
	SISO	2440	1	1.149	>=0.5	Pass
		2478	1	1.151	>=0.5	Pass



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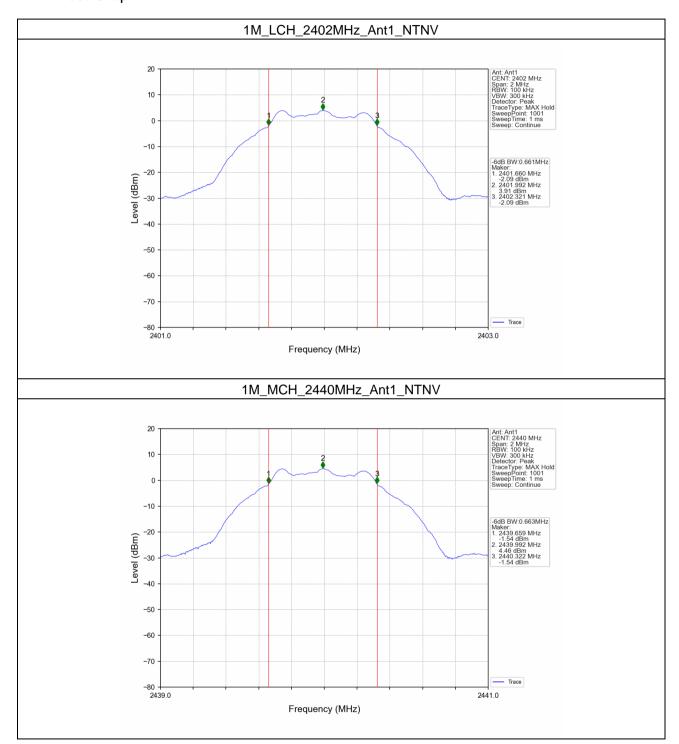


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2.2.2 Test Graph





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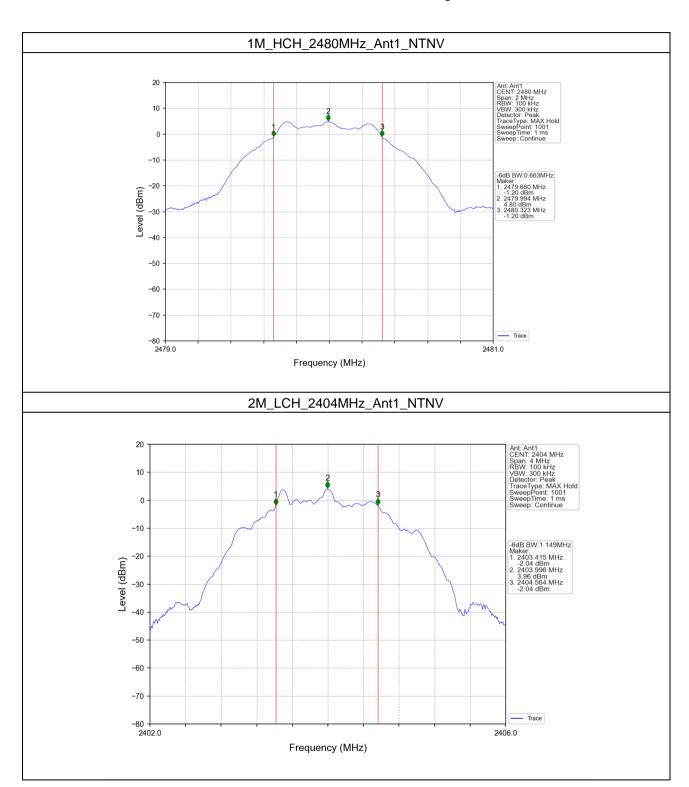
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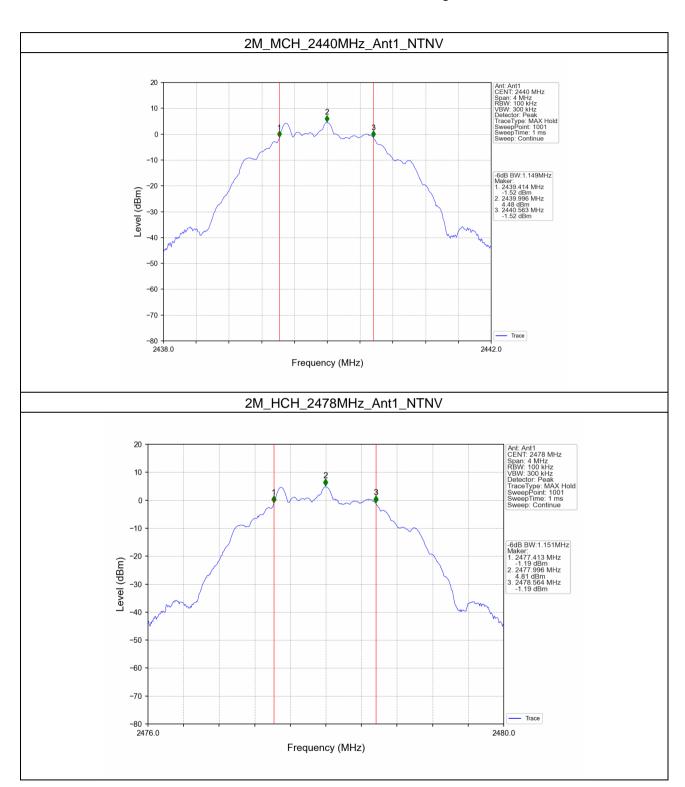
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conduc	Mandiat		
			ANT1	1 Limit		
		2402	3.94	<=30	Pass	
1M	SISO	2440	4.50	<=30	Pass	
		2480	4.84	<=30	Pass	
2M		2404	3.96	<=30	Pass	
	SISO	2440	4.46	<=30	Pass	
		2478	4.81	<=30	Pass Pass Pass	



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency (MHz)	Maximum PS) / a mali a t	
	Type		ANT1	Limit	Verdict
		2402	-10.70	<=8	Pass
1M	SISO	2440	-10.23	<=8	Pass
		2480	-9.77	<=8	Pass
2M		2404	-11.48	<=8	Pass
	SISO	2440	-11.00	<=8	Pass
		2478	-10.60	<=8	Pass



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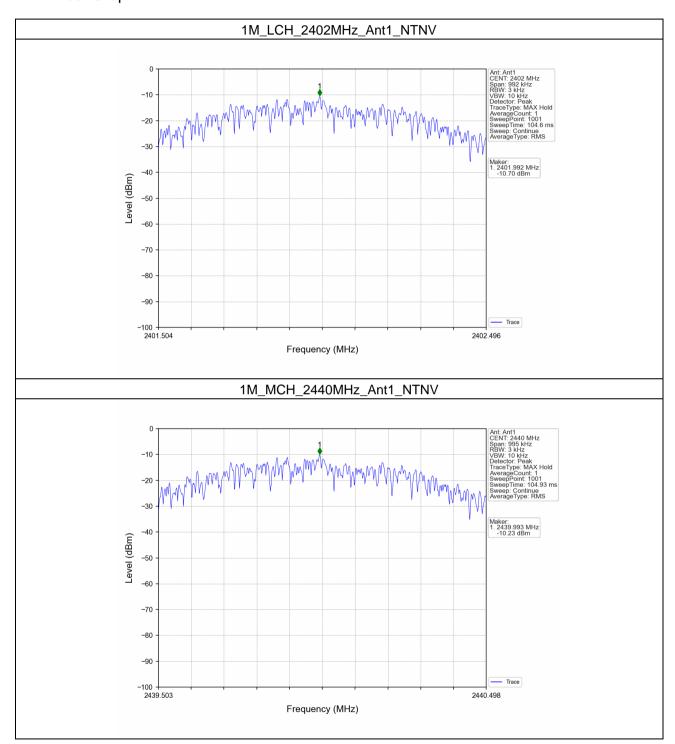


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4.1.2 Test Graph





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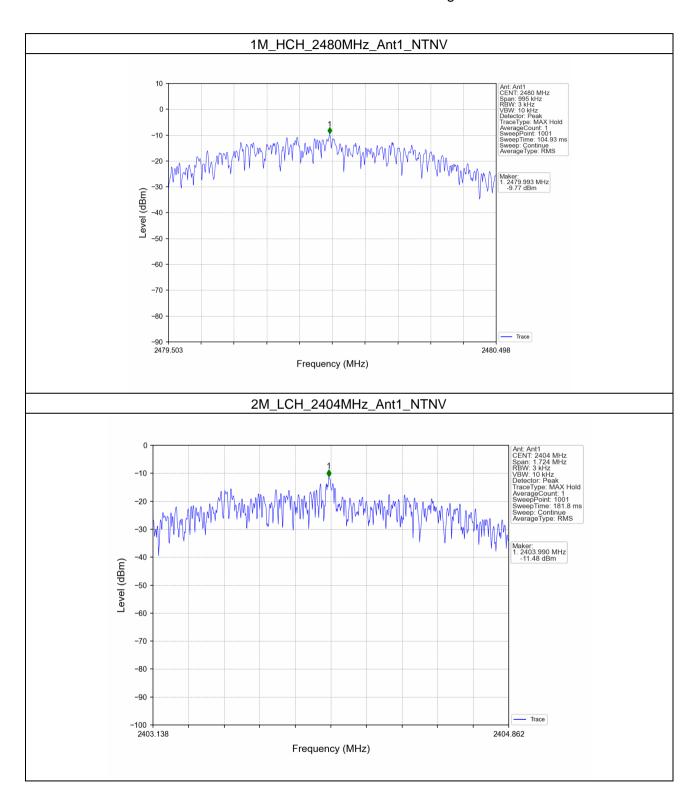
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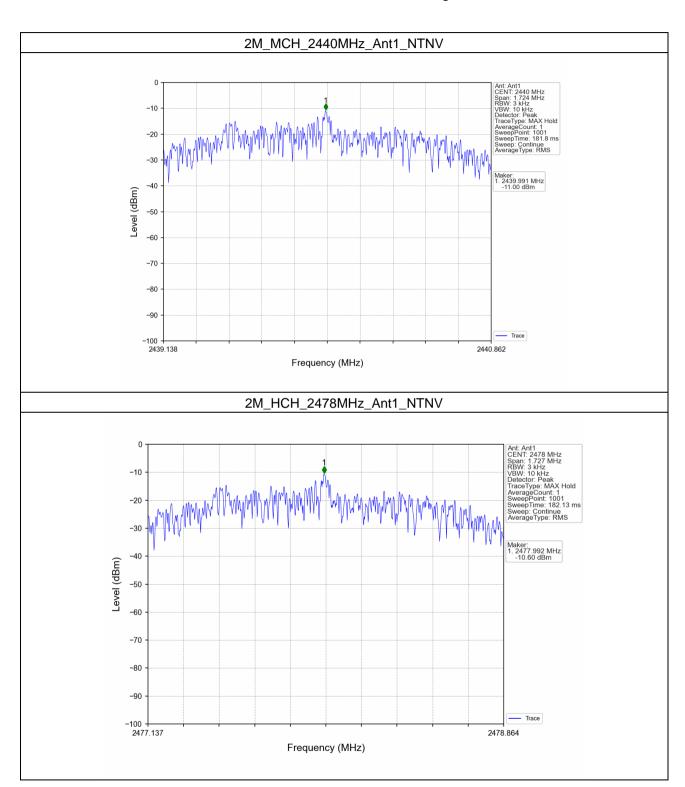
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	3.90
1M	SISO	2440	1	4.45
		2480	1	4.80
2M		2404	1	3.97
	SISO	2440	1	4.47
		2478	1	4.80



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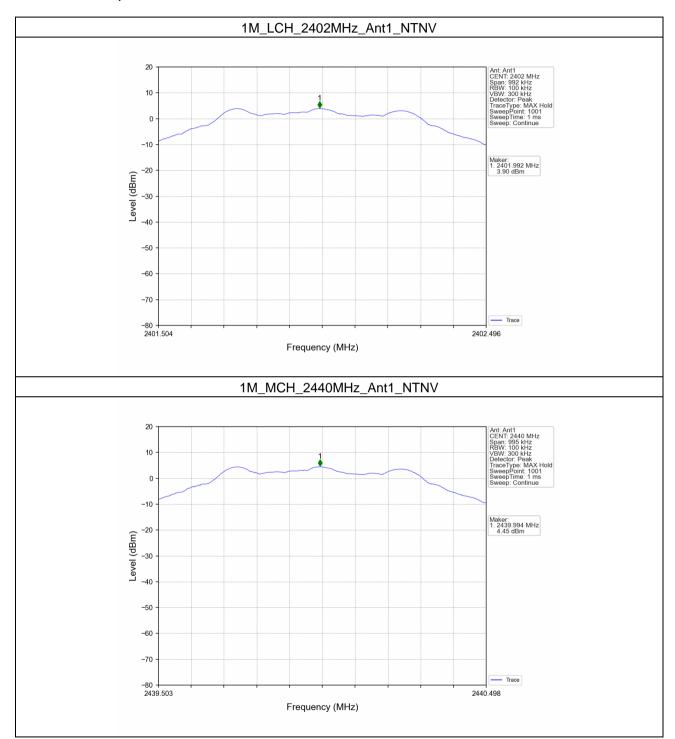


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5.1.2 Test Graph





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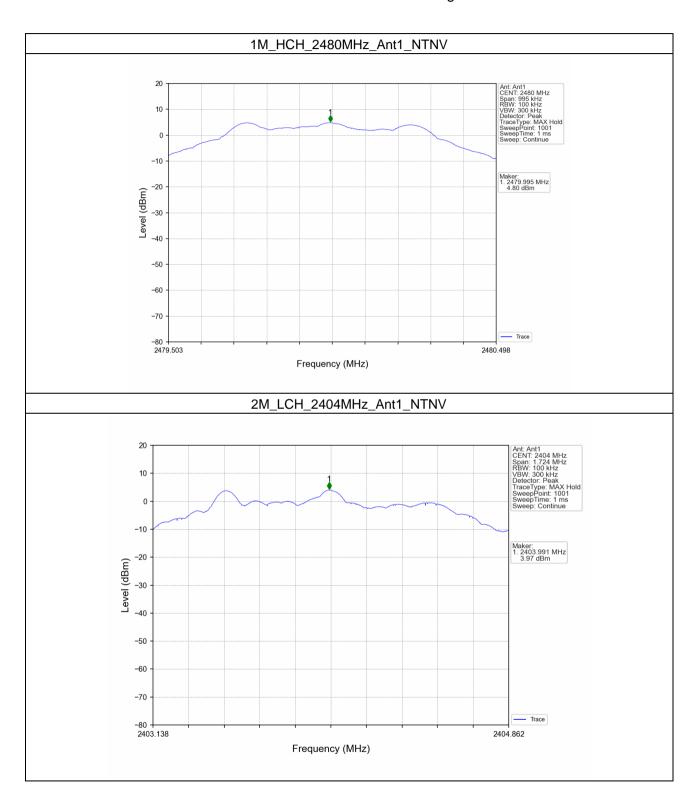
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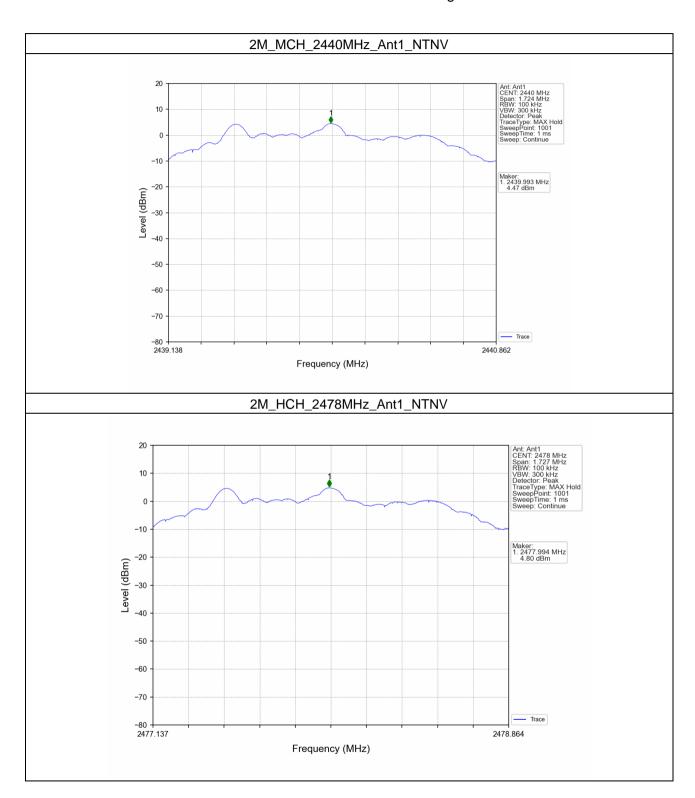
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	4.80	-15.20	Pass
1M	SISO	2440	1	4.80	-15.20	Pass
		2480	1	4.80	-15.20	Pass
2M		2404	1	4.80	-15.20	Pass
	SISO	2440	1	4.80	-15.20	Pass
		2478	1	4.80	-15.20	Pass



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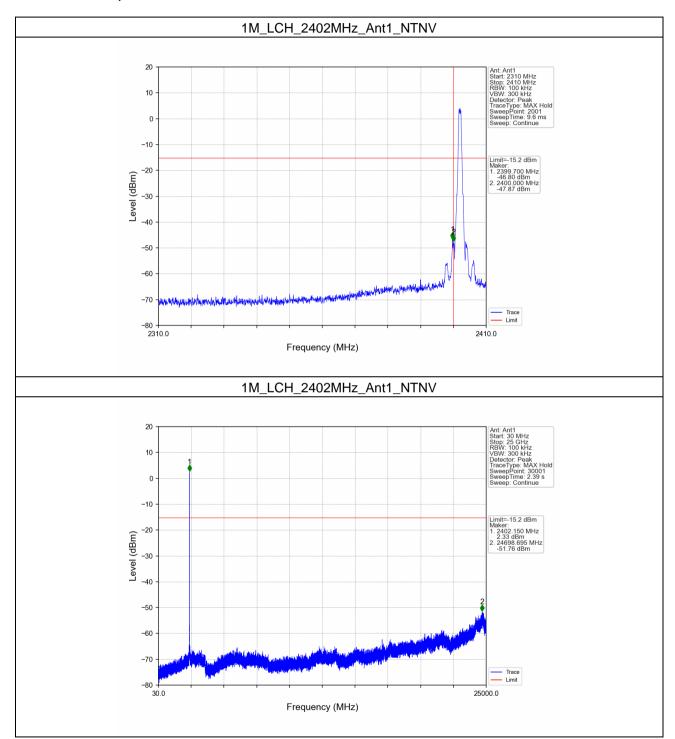


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5.2.2 Test Graph





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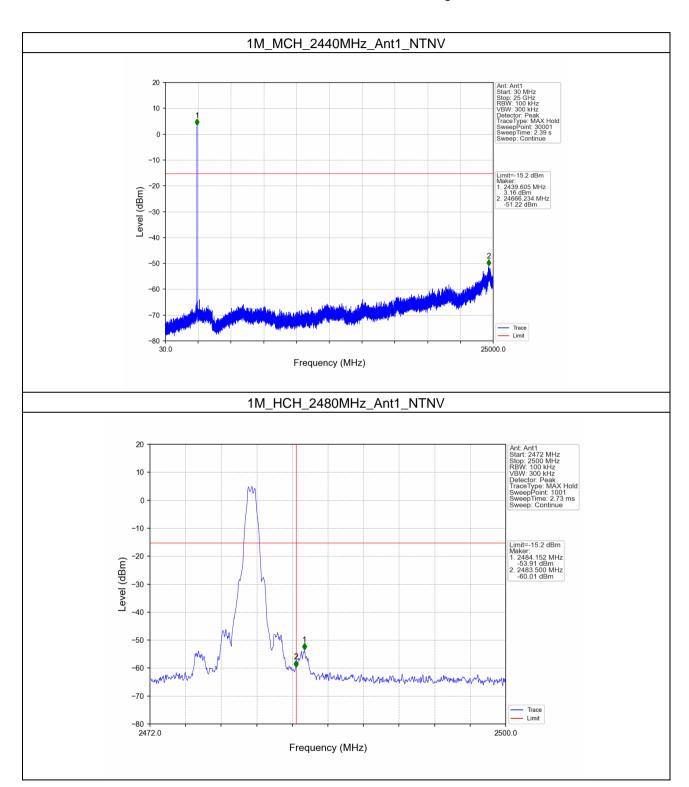
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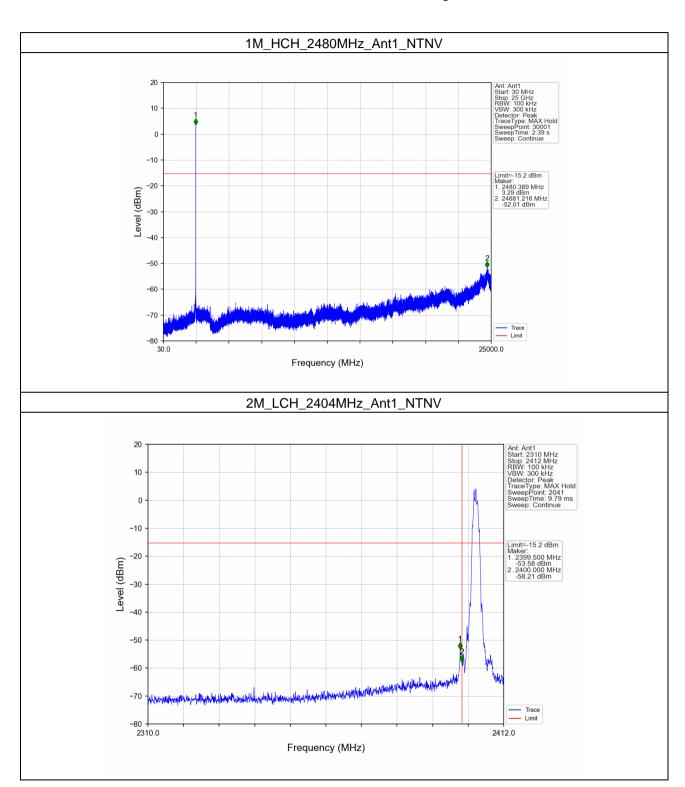
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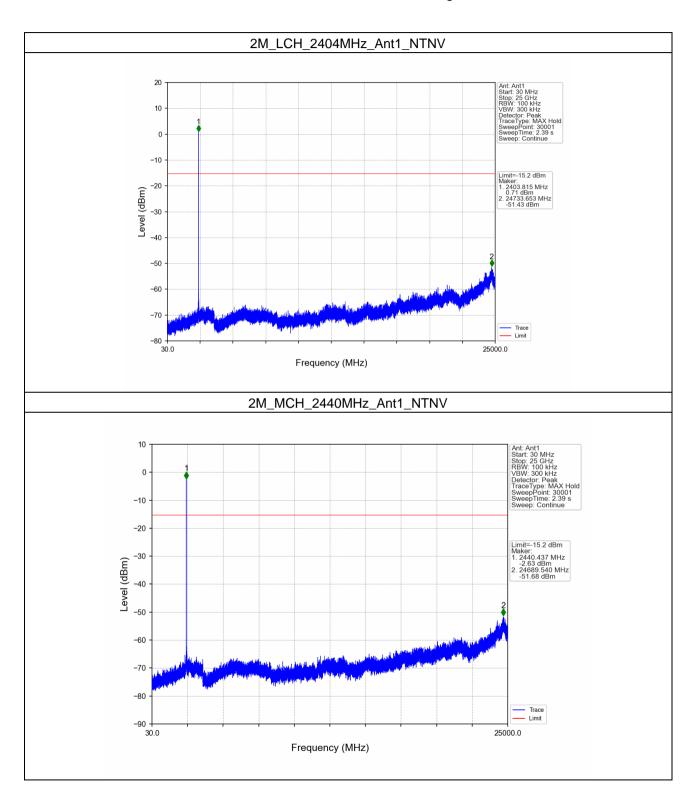
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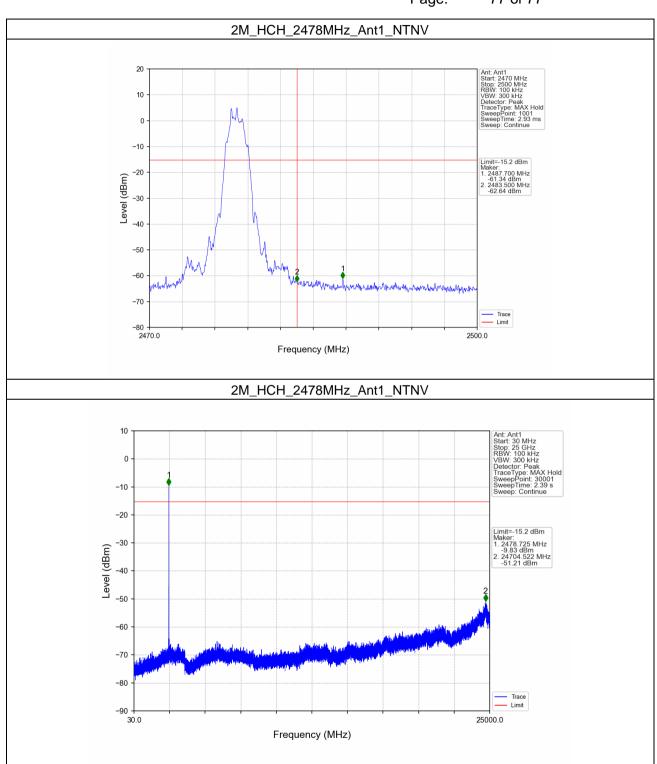
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