

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000389303

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# TEST REPORT

Application No.: SZCR2410003893AT
Applicant: LG Electronics USA, Inc.

Address of Applicant: 111 Sylvan Ave North Building Englewood Cliffs New Jersey 07632 United

States

Manufacturer: LG Electronics USA, Inc.

Address of Manufacturer: 111 Sylvan Ave North Building Englewood Cliffs New Jersey 07632 United

States

Factory: Cosonic Electroacoustic Technology Co., Ltd.

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

Guangdong Province, P.R. China.

**Equipment Under Test (EUT):** 

**EUT Name:** xboom Buds

Model No.: BUDS Trade Mark: LG

FCC ID: ZNFBUDS

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

**Date of Receipt:** 2024-10-22

**Date of Test:** 2024-10-22 to 2024-10-25

**Date of Issue:** 2024-10-31

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. xu



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-10-31		Original				

Authorized for issue by:			
	Bric Chan		
	Bill Chen/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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# **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		
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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### **General Information**

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

Power supply:	DC 5V from adapter input AC 230V/50Hz
	Lithium Ion Battery: DC 3.85V 70mAh 0.27Wh rechargeable battery which
	charged by charging case for left earbud and right earbud
	Lithium Ion Battery: DC 3.85V 475mAh 1.829Wh rechargeable battery which charged by USB port for charging case
Cable(s):	Type C cable:16cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.4 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Rate data:	1Mbps and 2Mbps
Antenna Type:	FPC Antenna
Antenna Gain:	Left earbud:-2.3dBi Right earbud:-3.7dBi

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### 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	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
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 Ulab (lab Uncertainty) is less than Ucispr/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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#### 5 **Equipment List**

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29	
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2024-03-27	2025-03-26
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2024-03-19	2025-03-18
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2024-03-27	2025-03-26
Programmable Temperature&Humidity	Votsch Industrietechnik	VT 4002	SEM002-15	2024-03-19	2025-03-18



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Chamber	GmbH				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2024-07-06	2025-07-05
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2024-03-14	2025-03-13
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2024-03-14	2025-03-13
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2024-08-15	2025-08-14
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-08	2024-03-14	2025-03-13

Radiated Spurious Emis	ssions Above 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050 SZ-WRG-M- 051		2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048 SZ-WRG-N 052		2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	I SUBWAR/BELK IBBBA 91/1111			2023-12-21	2025-12-20
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24
RSE Test Software	Test Software AUDIX e3 V8.2014-6-		N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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. **EUT Antenna:** 

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbud:-2.3dBi Right earbud:-3.7dBi

Antenna location: Refer to internal photo.



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#### **Radio Spectrum Matter Test Results** 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.



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### 7.1.1 E.U.T. Operation

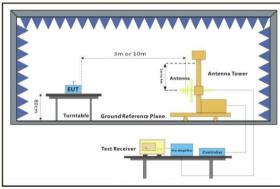
Operating Environment:

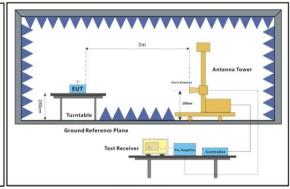
Temperature: 22.2 °C Humidity: 56.7 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.1.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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#### 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 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
- c. The EUT was set 3 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.
- 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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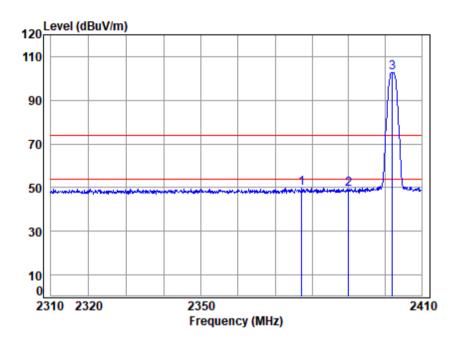


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 Band edge

: BLE 1M L

		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	2377.236	6.82	27.41	31.54	47.27	49.96	74.00	-24.04	peak
2	2390.000	6.82	27.46	31.54	46.38	49.12	74.00	-24.88	peak
3 рр	2402.000	6.84	27.50	31.54	100.09	102.89	74.00	28.89	peak



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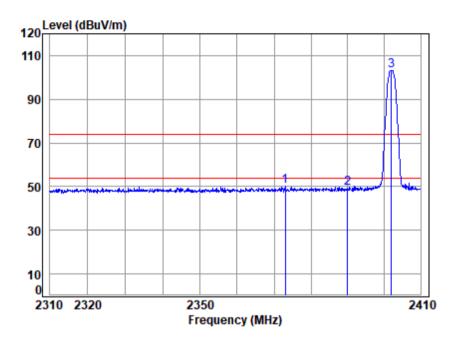


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Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2402 Band edge

: BLE 1M L

		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		
	2373.008	6.82	27.39	31.54	47.37	50.04	74.00	-23.96	peak	
	2390.000	6.82	27.46	31.54	46.35	49.09	74.00	-24.91	peak	
nn	2402.000	6.84	27.50	31.54	100.51	103.31	74.00	29.31	neak	



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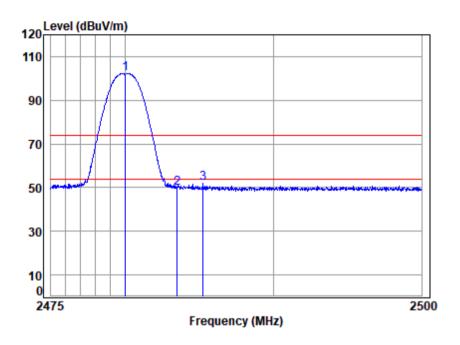


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 Band edge

: BLE 1M L

		±								
		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 pp	2480.000	7.37	27.78	31.55	98.46	102.06	74.00	28.06	peak	
2	2483.500	7.40	27.80	31.55	46.08	49.73	74.00	-24.27	peak	
3	2485,220	7.41	27.81	31.55	48.13	51.80	74.00	-22.20	peak	



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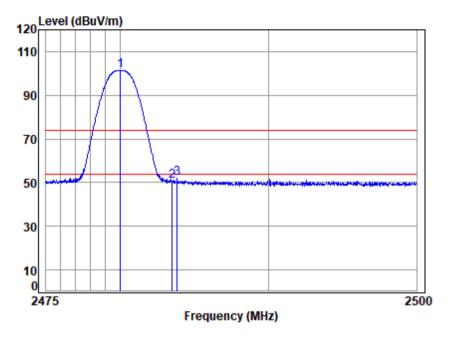


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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No

2

Mode : 2480 Band edge

: 03893AT

: BLE 1M L

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 2480.000 7.37 27.78 31.55 97.63 101.23 74.00 27.23 peak 2483.500 7.40 27.80 31.55 46.85 50.50 74.00 -23.50 peak 2483.821 7.40 27.80 31.55 48.23 51.88 74.00 -22.12 peak



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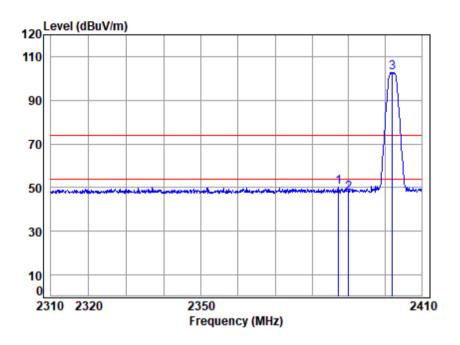


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Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 Band edge

: BLE 2M L

		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		
	2387.230	6.82	27.45	31.54	47.39	50.12	74.00	-23.88	peak	
	2390.000	6.82	27.46	31.54	44.88	47.62	74.00	-26.38	peak	
on	2402.000	6.84	27.50	31.54	99.77	102.57	74.00	28.57	peak	



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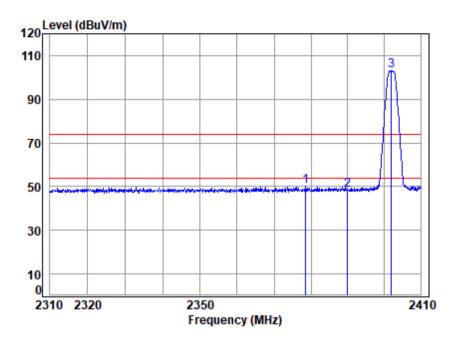


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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

: 03893AT

Job No

1 2

Mode : 2402 Band edge

: BLE 2M L

			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		
		2378.546	6.82	27.41	31.54	47.43	50.12	74.00	-23.88	peak	
)		2390.000	6.82	27.46	31.54	45.83	48.57	74.00	-25.43	peak	
	pp	2402.000	6.84	27.50	31.54	100.16	102.96	74.00	28.96	peak	



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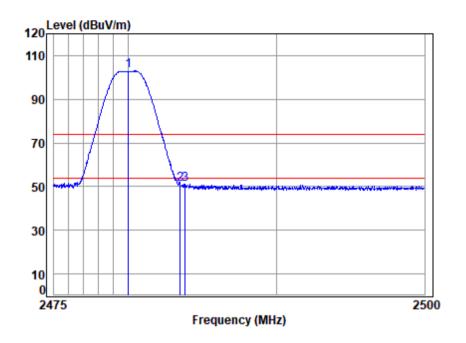


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Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 Band edge

: BLE 2M L

		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 pp	2480.000	7.37	27.78	31.55	99.37	102.97	74.00	28.97	peak	
2	2483.500	7.40	27.80	31.55	47.30	50.95	74.00	-23.05	peak	
3	2483.821	7.40	27.80	31.55	47.45	51.10	74.00	-22.90	neak	



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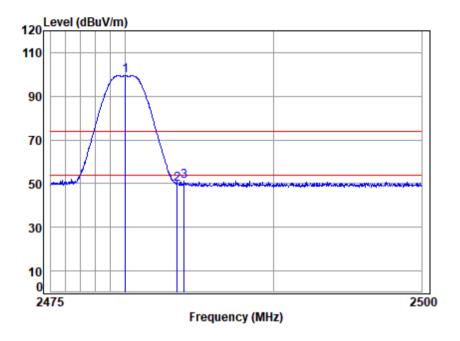


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Report No.: SZCR241000389303

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



Condition: 3m VERTICAL Job No : 03893AT

Mode : 2480 Band edge

: BLE 2M L

		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 pp	2480.000	7.37	27.78	31.55	95.83	99.43	74.00	25.43	peak	
	2483.500									
3	2483.971	7.40	27.80	31.55	47.33	50.98	74.00	-23.02	peak	



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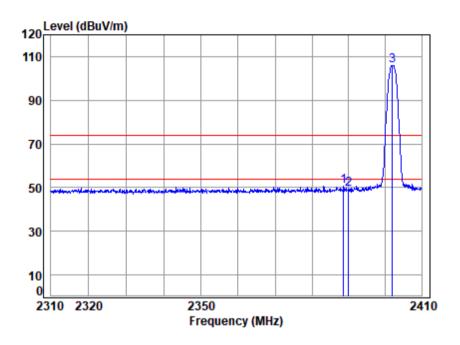


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Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 Band edge

: BLE 1M R

		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		
	2388.647	6.82	27.45	31.54	47.85	50.58	74.00	-23.42	peak	
	2390.000	6.82	27.46	31.54	46.74	49.48	74.00	-24.52	peak	
nn	2402.000	6.84	27.50	31.54	102.96	105.76	74.00	31.76	neak	



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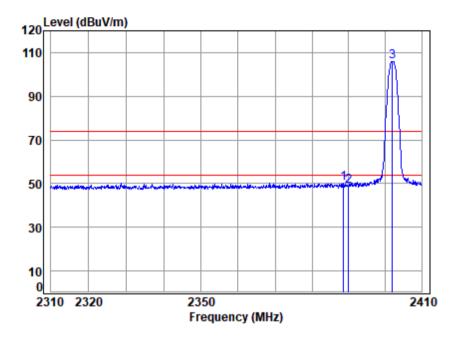


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Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2402 Band edge

: BLE 1M R

		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	
	2388.546	6.82	27.45	31.54	47.58	50.31	74.00	-23.69	peak
	2390.000	6.82	27.46	31.54	46.20	48.94	74.00	-25.06	peak
nn	2402 000	6 84	27 50	31 5/	103 00	105 80	74 00	31 80	neak



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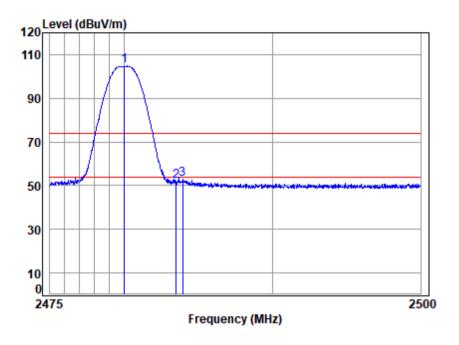


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Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 Band edge

: BLE 1M R

		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 n	p 2480.000	7 37	27 78	31 55	101 12	10/1 72	7/ 00	30 72	nook
- P	2400.000	1.51	27.70	31.33	101.12	104.72	74.00	50.72	peak
2	2483.500	7.40	27.80	31.55	48.27	51.92	74.00	-22.08	peak
3	2/123 921	7 10	27 80	31 55	//9 12	52 77	7/ 00	_21 23	neak



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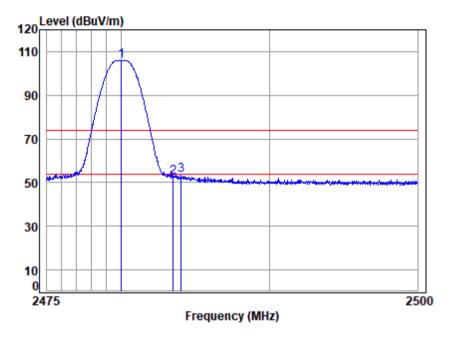


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Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

2484.021

Job No

2

Mode : 2480 Band edge

: 03893AT

: BLE 1M R

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 2480.000 7.37 27.78 31.55 102.44 106.04 74.00 32.04 peak 2483.500 7.40 27.80 31.55 48.84 52.49 74.00 -21.51 peak

7.40 27.80 31.55 49.91 53.56 74.00 -20.44 Peak



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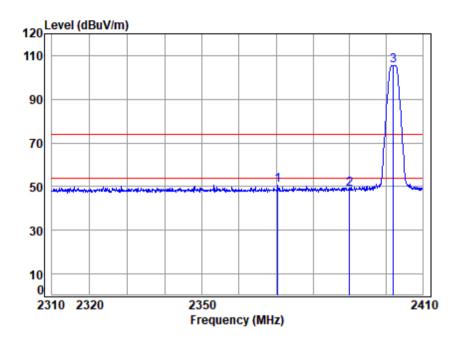


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Report No.: SZCR241000389303

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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 Band edge

: BLE 2M R

		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		
	2370.495	6.82	27.38	31.54	47.95	50.61	74.00	-23.39	peak	
	2390.000	6.82	27.46	31.54	45.94	48.68	74.00	-25.32	peak	
nn	2402 000	6 84	27 50	31 54	102 83	105 63	74 00	31 63	neak	



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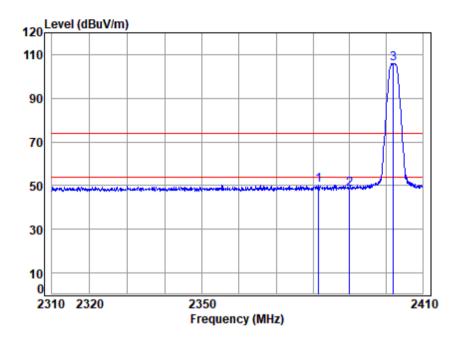


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Report No.: SZCR241000389303

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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2402 Band edge

: BLE 2M R

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2381.572 2390.000								•
nn	2402 000								•



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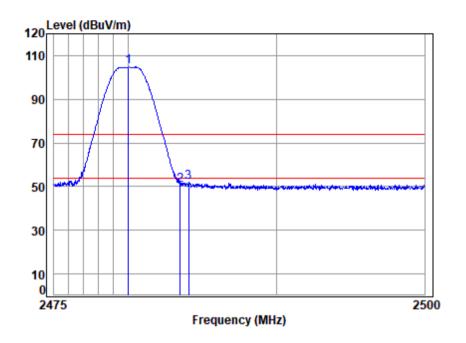


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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 Band edge

: BLE 2M R

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.000	7.37	27.78	31.55	101.14	104.74	74.00	30.74	peak
2	2483.500	7.40	27.80	31.55	47.10	50.75	74.00	-23.25	peak
3	2/8/ 0/6	7 10	27 80	31 55	18 50	52 15	7/ 00	21 85	noak



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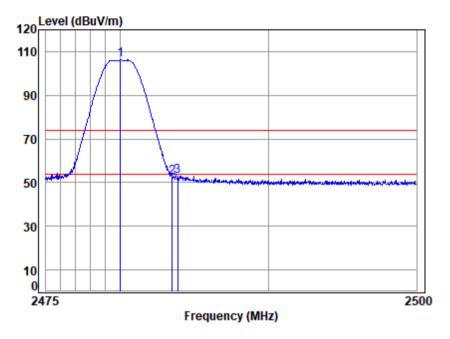


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Report No.: SZCR241000389303

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Test Mode: 07; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

2483.871

Job No

2

Mode : 2480 Band edge

: BLE 2M R

: 03893AT

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 2480.000 7.37 27.78 31.55 102.51 106.11 74.00 32.11 peak 2483.500 7.40 27.80 31.55 49.01 52.66 74.00 -21.34 peak

7.40 27.80 31.55 49.48 53.13 74.00 -20.87 peak



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### 7.2 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	07	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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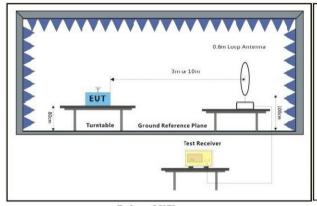
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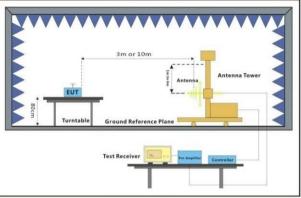


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#### 7.2.3 Test Setup Diagram





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

#### Remark:

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



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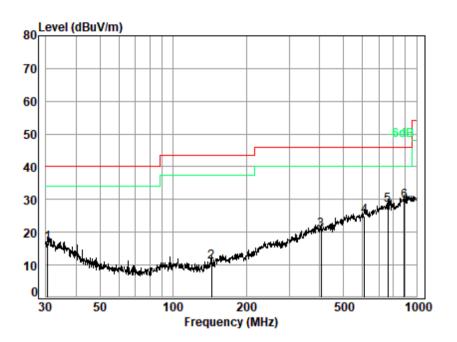


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Test Mode: 04; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03893AT

Test Mode: 04

		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	30.531	20.95	0.68	27.79	22.86	16.70	40.00	-23.30	QP
2	143.830	12.25	1.50	27.41	24.49	10.83	43.50	-32.67	QP
3	406.088	20.53	2.60	27.18	24.66	20.61	46.00	-25.39	QP
4	609.922	24.71	3.27	27.95	24.96	24.99	46.00	-21.01	QP
5	763.376	26.52	3.75	27.57	25.53	28.23	46.00	-17.77	QP
6 a	890.728	28.06	4.10	26.83	24.12	29.45	46.00	-16.55	OP



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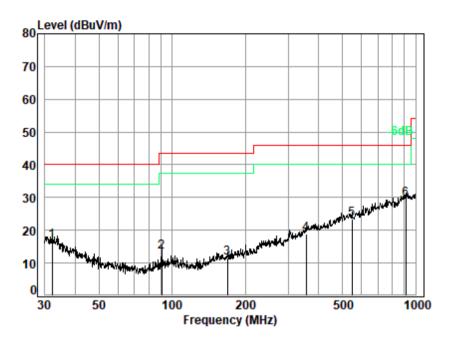


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Test Mode: 04; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03893AT

Test Mode: 04

	Freq	Ant Factor		Preamp Factor					Remark
_	MHz			dB					
1	32.179	20.20	0.70	27.79	23.64	16.75	40.00	-23.25	QP
2	90.537	11.77	1.16	27.62	28.02	13.33	43.50	-30.17	QP
3	169.005	13.21	1.63	27.30	23.99	11.53	43.50	-31.97	QP
4	355.427	20.09	2.42	26.98	23.20	18.73	46.00	-27.27	QP
5	549.020	23.81	3.08	27.76	24.38	23.51	46.00	-22.49	QP
6 q	909.667	27.97	4.15	26.70	24.04	29.46	46.00	-16.54	QP



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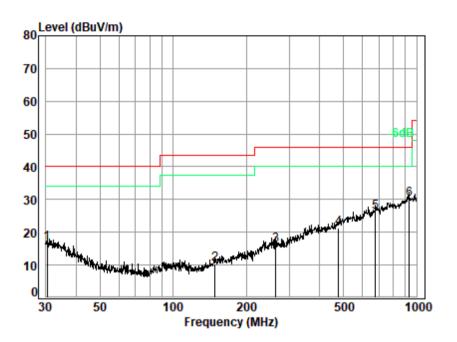


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Test Mode: 06; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03893AT

Test Mode: 06

		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	30.424	21.00	0.68	27.79	22.93	16.82	40.00	-23.18	QP
2	148.963	12.93	1.53	27.38	23.24	10.32	43.50	-33.18	QP
3	263.819	17.11	2.06	26.90	23.99	16.26	46.00	-29.74	QP
4	478.846	22.68	2.85	27.48	23.11	21.16	46.00	-24.84	QP
5	677.580	25.78	3.48	27.78	24.80	26.28	46.00	-19.72	QP
6 a	932.272	28.16	4.21	26.53	24.28	30.12	46.00	-15.88	OP



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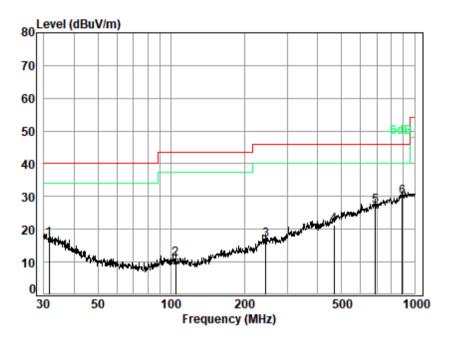


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Test Mode: 06; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03893AT

Test Mode: 06

		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	31.510	20.50	0.69	27.79	23.53	16.93	40.00	-23.07	QP
2	104.170	12.22	1.25	27.57	25.00	10.90	43.50	-32.60	QP
3	245.090	17.10	1.98	26.98	24.55	16.65	46.00	-29.35	QP
4	467.235	21.97	2.82	27.43	24.04	21.40	46.00	-24.60	QP
5	691.987	25.74	3.52	27.74	25.67	27.19	46.00	-18.81	QP
6 a	890.728	28.06	4.10	26.83	24.45	29.78	46.00	-16.22	OP



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### 7.3 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

### Limit:

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

### 7.3.1 E.U.T. Operation

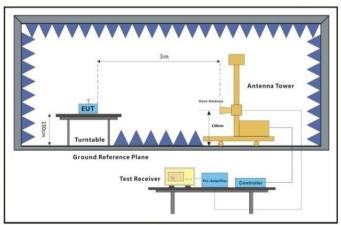
Operating Environment:

Temperature: 23.2 °C Humidity: 60.5 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

	ez testinese zestipuon											
Pre-scan / Final test	Mode Code	Description										
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.										
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.										
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.										
Final test	07	TX mode(2Mbps)(Right earbud)_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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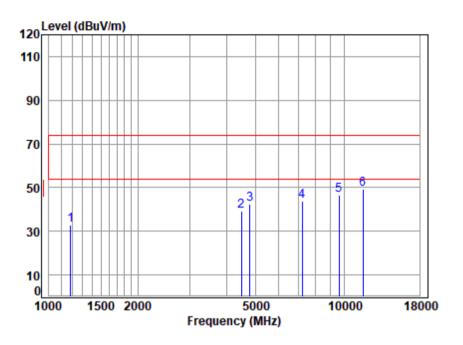


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 1M L

		T11 E								
		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		
L	1185.936	7.18	25.33	54.70	55.06	32.87	74.00	-41.13	peak	
2	4495.125	8.56	31.58	55.95	55.06	39.25	74.00	-34.75	peak	
3	4804.000	8.90	31.92	56.16	57.66	42.32	74.00	-31.68	peak	
1	7206.000	11.10	36.60	56.54	52.66	43.82	74.00	-30.18	peak	
5	9608.000	12.38	38.78	54.45	49.78	46.49	74.00	-27.51	peak	
5	pp11566 870	14 40	39 60	53 67	49 02	49 35	74 00	-24 65	neak	



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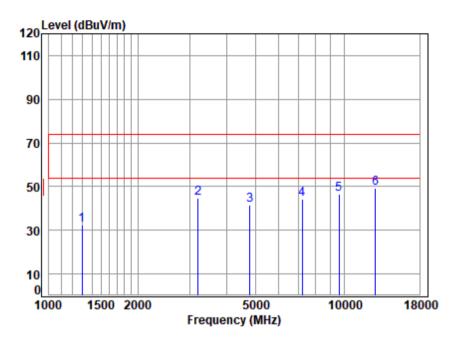


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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 1M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	7.15	25.21	54.70	54.59	32.25	74.00	-41.75	peak
2	3196.094	7.70	29.20	55.12	62.92	44.70	74.00	-29.30	peak
3	4804.000	8.90	31.92	56.16	56.79	41.45	74.00	-32.55	peak
4	7206.000	11.10	36.60	56.54	52.93	44.09	74.00	-29.91	peak
5	9608.000	12.38	38.78	54.45	49.63	46.34	74.00	-27.66	peak
6	pp12761.300	15.07	40.26	54.33	48.44	49.44	74.00	-24.56	peak



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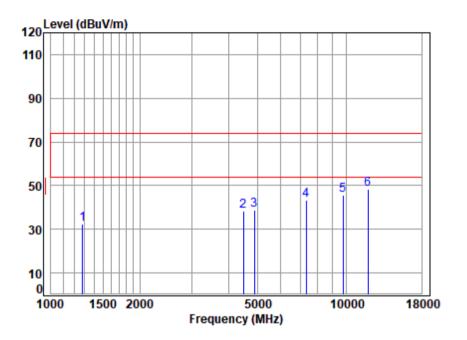


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 1M L

		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	1282.193	7.16	25.24	54.70	54.82	32.52	74.00	-41.48	peak
2	4482.150	8.56	31.53	55.94	54.31	38.46	74.00	-35.54	peak
3	4880.000	8.98	32.16	56.22	53.74	38.66	74.00	-35.34	peak
4	7320.000	11.12	36.74	56.44	51.79	43.21	74.00	-30.79	peak
5	9760.000	12.84	38.60	54.32	48.60	45.72	74.00	-28.28	peak
6	pp11871.710								-



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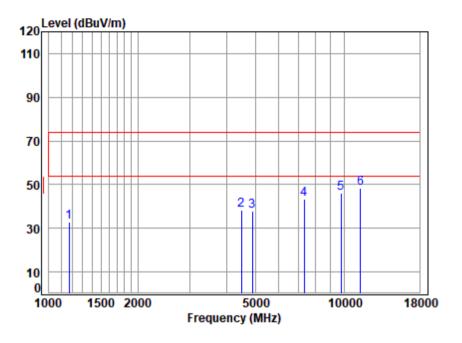


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 1M L

		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	
	1168.920	7.16	25.36	54.70	55.03	32.85	74.00	-41.15	peak
•	4495.125	8.56	31.58	55.95	53.93	38.12	74.00	-35.88	peak
,	4880.000	8.98	32.16	56.22	53.15	38.07	74.00	-35.93	peak
ļ	7320.000	11.12	36.74	56.44	52.04	43.46	74.00	-30.54	peak
,	9760.000	12.84	38.60	54.32	48.90	46.02	74.00	-27.98	peak
,	pp11368.000								•



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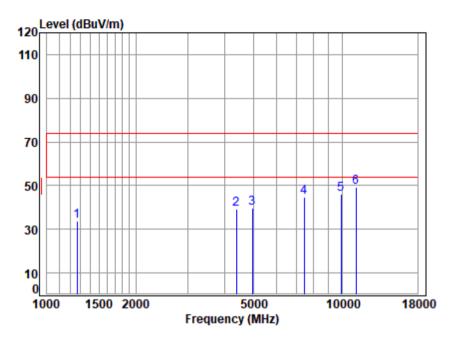


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 1M L

		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	
L	1263.796	7.16	25.27	54.70	56.21	33.94	74.00	-40.06	peak
2	4392.376	8.53	31.22	55.87	55.48	39.36	74.00	-34.64	peak
3	4960.000	9.07	32.20	56.27	54.60	39.60	74.00	-34.40	peak
1	7440.000	11.08	36.78	56.35	53.27	44.78	74.00	-29.22	peak
5	9920.000	12.73	38.90	54.17	48.75	46.21	74.00	-27.79	peak
5	nn111//0 310	1/1 17	39 5/	53 5/	19 11	//9 31	7/ 00	-24 69	neak



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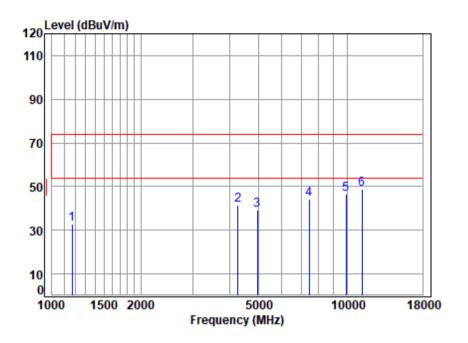


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 1M L

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	55.03	32.85	74.00	-41.15	peak
2	4267.237	8.47	31.17	55.79	57.68	41.53	74.00	-32.47	peak
3	4960.000	9.07	32.20	56.27	54.29	39.29	74.00	-34.71	peak
4	7440.000	11.08	36.78	56.35	52.88	44.39	74.00	-29.61	peak
5	9920.000	12.73	38.90	54.17	48.88	46.34	74.00	-27.66	peak
6	pp11237.330	14.30	39.64	53.57	48.29	48.66	74.00	-25.34	peak



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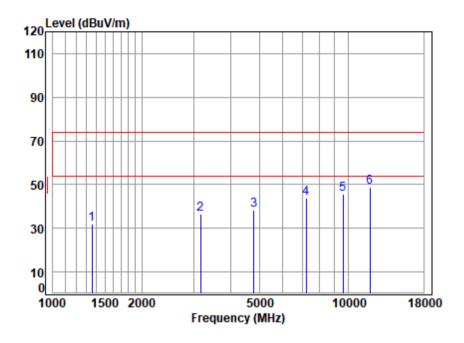


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 2M L

		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	1354.577	7.18	25.09	54.70	54.59	32.16	74.00	-41.84	peak
2	3168.500	7.70	29.20	55.10	54.73	36.53	74.00	-37.47	Peak
3	4804.000	8.90	31.92	56.16	53.75	38.41	74.00	-35.59	peak
4	7206.000	11.10	36.60	56.54	52.67	43.83	74.00	-30.17	peak
5	9608.000	12.38	38.78	54.45	49.06	45.77	74.00	-28.23	peak
6	pp11871.710	14.63	39.67	53.76	48.29	48.83	74.00	-25.17	peak



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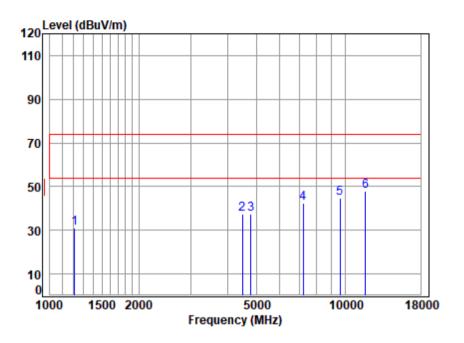


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 2M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	7.18	25.30	54.70	53.39	31.17	74.00	-42.83	peak
2	4495.125	8.56	31.58	55.95	53.29	37.48	74.00	-36.52	peak
3	4804.000	8.90	31.92	56.16	52.63	37.29	74.00	-36.71	peak
4	7206.000	11.10	36.60	56.54	51.16	42.32	74.00	-31.68	peak
5	9608.000	12.38	38.78	54.45	48.02	44.73	74.00	-29.27	peak
6	pp11735.250	14.46	39.54	53.72	47.76	48.04	74.00	-25.96	peak



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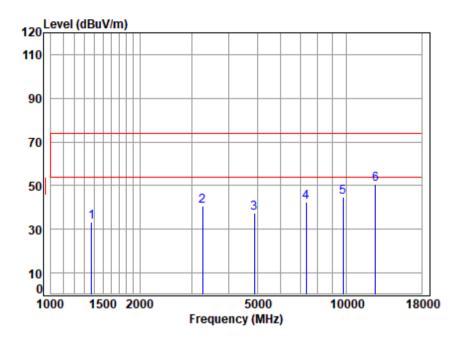


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 2M L

		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	1374.295	7.19	25.05	54.70	55.75	33.29	74.00	-40.71	peak
2	3261.418	7.63	29.28	55.16	58.80	40.55	74.00	-33.45	peak
3	4880.000	8.98	32.16	56.22	52.61	37.53	74.00	-36.47	peak
4	7320.000	11.12	36.74	56.44	51.06	42.48	74.00	-31.52	peak
5	9760.000	12.84	38.60	54.32	47.76	44.88	74.00	-29.12	peak
6	pp12541.900	14.84	39.98	54.18	50.04	50.68	74.00	-23.32	peak



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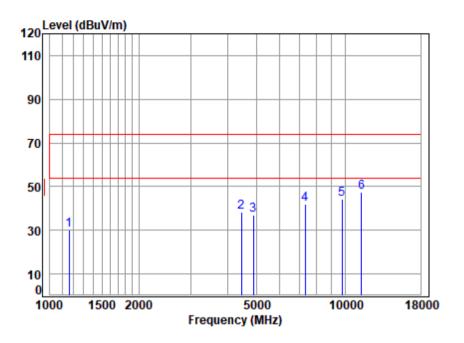


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Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 2M L

	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	
1162.182	7.16	25.38	54.70	52.40	30.24	74.00	-43.76	peak
4456.315	8.55	31.43	55.92	54.06	38.12	74.00	-35.88	peak
4880.000	8.98	32.16	56.22	51.96	36.88	74.00	-37.12	peak
7320.000	11.12	36.74	56.44	50.56	41.98	74.00	-32.02	peak
9760.000	12.84	38.60	54.32	46.92	44.04	74.00	-29.96	peak
nn11335 190								•



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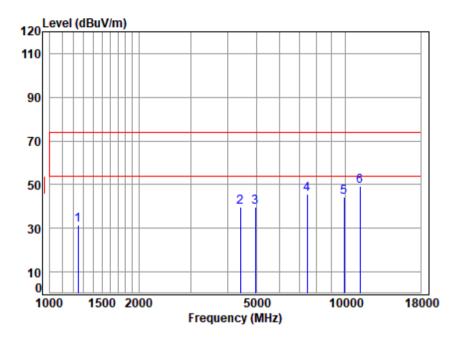


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Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 2M L

		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	
	4245 663	7 47	25 20	F4 70	F3 66	24 42	74.00	40 57	
1	1245.663	/.1/	25.30	54.70	53.66	31.43	74.00	-42.5/	реак
2	4417.841	8.54	31.27	55.89	55.56	39.48	74.00	-34.52	peak
3	4960.000	9.07	32.20	56.27	54.83	39.83	74.00	-34.17	peak
4	7440.000	11.08	36.78	56.35	54.25	45.76	74.00	-28.24	peak
5	9920.000	12.73	38.90	54.17	46.59	44.05	74.00	-29.95	peak
6	pp11237.330	14.30	39.64	53.57	49.07	49.44	74.00	-24.56	peak



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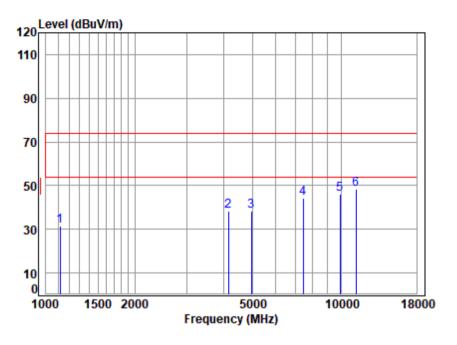


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Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 2M L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	7.11	25.54	54.70	53.72	31.67	74.00	-42.33	peak
2	4145.664	8.43	30.49	55.70	55.08	38.30	74.00	-35.70	peak
3	4960.000	9.07	32.20	56.27	53.35	38.35	74.00	-35.65	peak
4	7440.000	11.08	36.78	56.35	52.68	44.19	74.00	-29.81	peak
5	9920.000	12.73	38.90	54.17	48.62	46.08	74.00	-27.92	peak
6	pp11237.330	14.30	39.64	53.57	48.07	48.44	74.00	-25.56	peak



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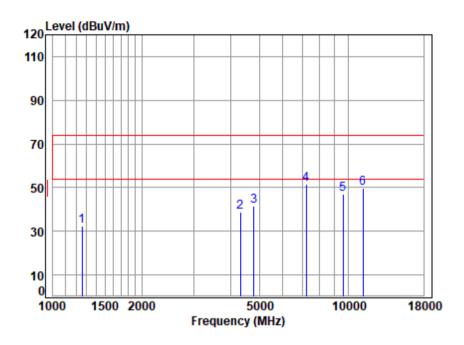


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 1M R

		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	1256.512	7.17	25.29	54.70	54.84	32.60	74.00	-41.40	peak
2	4316.859	8.47	31.30	55.82	54.92	38.87	74.00	-35.13	peak
3	4804.000	8.90	31.92	56.16	56.97	41.63	74.00	-32.37	peak
4 p	p 7206.000	11.10	36.60	56.54	60.53	51.69	74.00	-22.31	peak
5	9608.000	12.38	38.78	54.45	50.18	46.89	74.00	-27.11	peak
	11237 330								•



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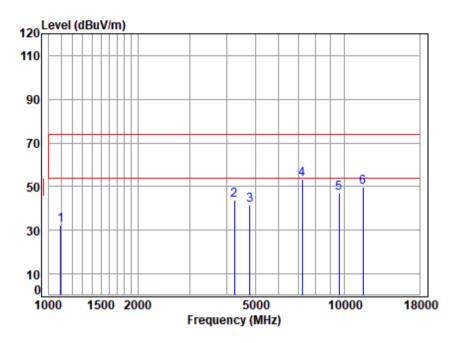


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

Page: 52 of 119

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 1M R

		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	
4	1006 004	7 10	25 50	E4 70	E4 43	22 42	74.00	44 50	
1	1096.904	7.10	25.59	54.70	54.43	32.42	74.00	-41.58	реак
2	4254.921	8.48	31.12	55.78	59.92	43.74	74.00	-30.26	peak
3	4804.000	8.90	31.92	56.16	56.75	41.41	74.00	-32.59	peak
4	pp 7206.000	11.10	36.60	56.54	62.39	53.55	74.00	-20.45	peak
5	9608.000	12.38	38.78	54.45	50.22	46.93	74.00	-27.07	peak
6	11566.870	14.40	39.60	53.67	49.56	49.89	74.00	-24.11	peak



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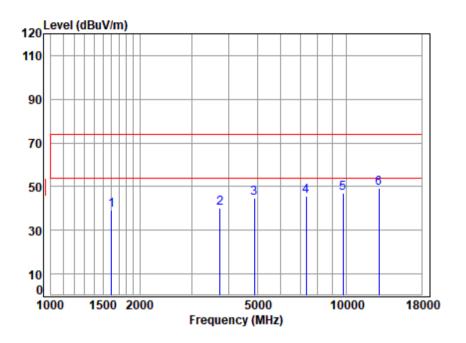


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 1M R

		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		
L	1606.441	7.11	25.09	54.70	61.83	39.33	74.00	-34.67	peak	
2	3746.792	7.94	29.89	55.45	57.90	40.28	74.00	-33.72	peak	
3	4880.000	8.98	32.16	56.22	59.67	44.59	74.00	-29.41	peak	
1	7320.000	11.12	36.74	56.44	54.15	45.57	74.00	-28.43	peak	
5	9760.000	12.84	38.60	54.32	49.88	47.00	74.00	-27.00	peak	
5	pp12909.700	15.24	40.39	54.44	48.21	49.40	74.00	-24.60	peak	



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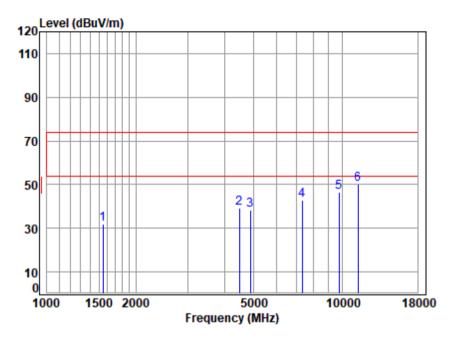


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 1M R

		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	1547.199	7.16	24.99	54.70	54.42	31.87	74.00	-42.13	peak
2	4495.125	8.56	31.58	55.95	55.03	39.22	74.00	-34.78	peak
3	4880.000	8.98	32.16	56.22	53.26	38.18	74.00	-35.82	peak
4	7320.000	11.12	36.74	56.44	51.60	43.02	74.00	-30.98	peak
5	9760.000	12.84	38.60	54.32	49.24	46.36	74.00	-27.64	peak
6	pp11302.480	14.39	39.70	53.59	49.85	50.35	74.00	-23.65	peak



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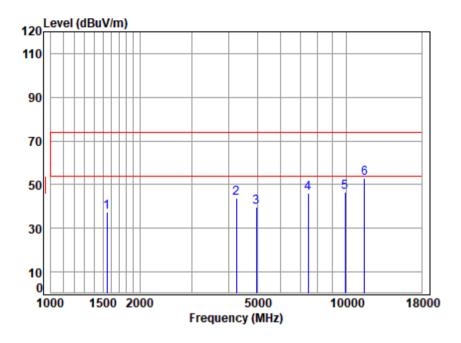


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Report No.: SZCR241000389303

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



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 1M R

		±111 11							
		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	1547.199	7.16	24.99	54.70	59.86	37.31	74.00	-36.69	peak
2	4254.921	8.48	31.12	55.78	59.92	43.74	74.00	-30.26	peak
3	4960.000	9.07	32.20	56.27	54.87	39.87	74.00	-34.13	peak
4	7440.000	11.08	36.78	56.35	54.36	45.87	74.00	-28.13	peak
5	9920.000	12.73	38.90	54.17	48.94	46.40	74.00	-27.60	peak
6	pp11533.480	14.31	39.60	53.66	52.55	52.80	74.00	-21.20	peak



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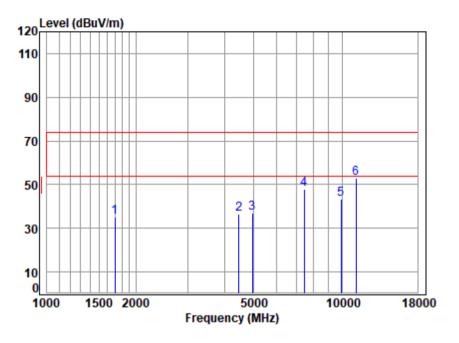


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

Page: 56 of 119

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



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 1M R

		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	7.20	25.11	54.70	57.40	35.01	74.00	-38.99	peak
2	4469.214	8.55	31.48	55.93	52.39	36.49	74.00	-37.51	peak
3	4960.000	9.07	32.20	56.27	51.80	36.80	74.00	-37.20	peak
4	7440.000	11.08	36.78	56.35	56.60	48.11	74.00	-25.89	peak
5	9920.000	12.73	38.90	54.17	45.90	43.36	74.00	-30.64	peak
6	pp11140.310	14.17	39.54	53.54	52.64	52.81	74.00	-21.19	peak



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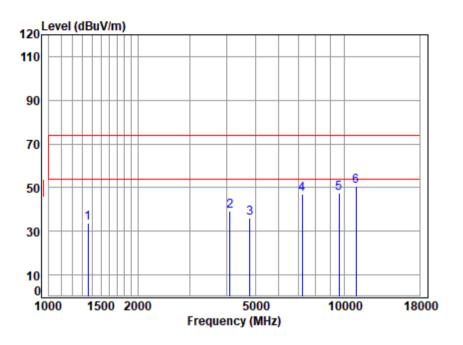


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 2M R

		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	
L	1358.498	7.19	25.08	54.70	56.24	33.81	74.00	-40.19	peak
2	4109.872	8.37	30.42	55.68	56.14	39.25	74.00	-34.75	peak
3	4804.000	8.90	31.92	56.16	51.40	36.06	74.00	-37.94	peak
1	7206.000	11.10	36.60	56.54	55.82	46.98	74.00	-27.02	peak
5	9608.000	12.38	38.78	54.45	50.88	47.59	74.00	-26.41	peak
5	nn10980 /70	1/ 10	39 38	53 51	50 75	50 72	7/ 00	-23 28	neak



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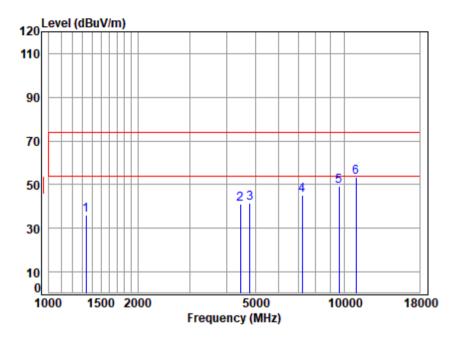


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

Page: 58 of 119

Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2402 TX RSE

: BLE 2M R

		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	
	1335.141	7.17	25.13	54.70	58.27	35.87	74.00	-38.13	peak
•	4456.315	8.55	31.43	55.92	56.94	41.00	74.00	-33.00	peak
,	4804.000	8.90	31.92	56.16	56.75	41.41	74.00	-32.59	peak
Ļ	7206.000	11.10	36.60	56.54	53.80	44.96	74.00	-29.04	peak
,	9608.000	12.38	38.78	54.45	52.50	49.21	74.00	-24.79	peak
,	pp10948.780	13.91	39.35	53.53	53.75	53.48	74.00	-20.52	peak



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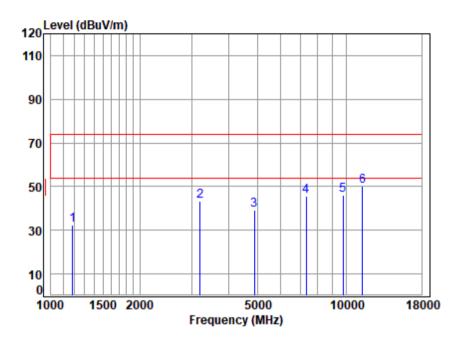


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 2M R

		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	
		- 4-							
	1182.513	/.1/	25.33	54.70	54.52	32.32	/4.00	-41.68	peak
	3205.345	7.69	29.21	55.12	61.37	43.15	74.00	-30.85	peak
,	4880.000	8.98	32.16	56.22	54.22	39.14	74.00	-34.86	peak
Ļ	7320.000	11.12	36.74	56.44	54.06	45.48	74.00	-28.52	peak
,	9760.000	12.84	38.60	54.32	49.07	46.19	74.00	-27.81	peak
,	pp11335.190	14.29	39.70	53.60	49.96	50.35	74.00	-23.65	peak



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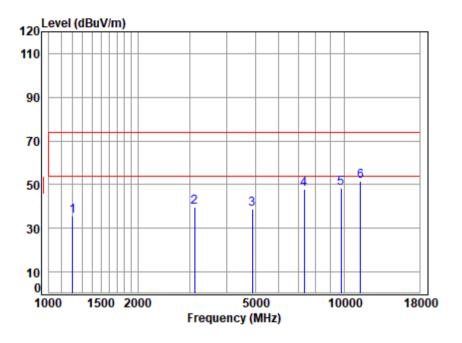


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000389303

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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2440 TX RSE

: BLE 2M R

		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	
	4003 400	7.40	05.30	F4 70		35 50	74.00	20.40	
	1203.199	/.19	25.30	54.70	5/./3	35.52	/4.00	-38.48	peak
	3114.025	7.71	29.13	55.07	57.81	39.58	74.00	-34.42	peak
,	4880.000	8.98	32.16	56.22	53.98	38.90	74.00	-35.10	peak
Ļ	7320.000	11.12	36.74	56.44	56.38	47.80	74.00	-26.20	peak
,	9760.000	12.84	38.60	54.32	51.08	48.20	74.00	-25.80	peak
,	pp11368.000	14.20	39.70	53.61	51.43	51.72	74.00	-22.28	peak



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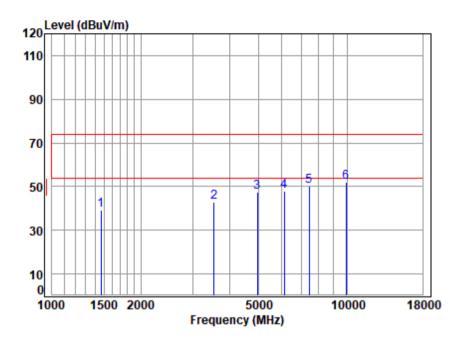


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Report No.: SZCR241000389303

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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 2M R

			211 11							
			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		1464.522	7.22	25.04	54.70	61.79	39.35	74.00	-34.65	peak
2		3536.341	7.74	29.75	55.32	60.85	43.02	74.00	-30.98	peak
3		4960.000	9.07	32.20	56.27	62.26	47.26	74.00	-26.74	peak
4		6124.292	10.38	33.94	56.88	60.69	48.13	74.00	-25.87	Peak
5		7440.000	11.08	36.78	56.35	58.63	50.14	74.00	-23.86	peak
6	nn	9920 000	12 73	38 90	54 17	54 58	52 04	74 99	-21 96	neak



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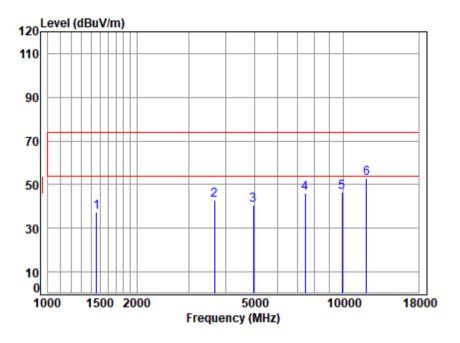


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 03893AT

Mode : 2480 TX RSE

: BLE 2M R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	7.22	25.06	54.70	59.97	37.55	74.00	-36.45	peak
2	3661.149	7.84	29.80	55.40	60.73	42.97	74.00	-31.03	peak
3	4960.000	9.07	32.20	56.27	55.59	40.59	74.00	-33.41	peak
4	7440.000	11.08	36.78	56.35	54.78	46.29	74.00	-27.71	peak
5	9920.000	12.73	38.90	54.17	48.92	46.38	74.00	-27.62	peak
6	pp12009.760	14.35	39.79	53.81	52.43	52.76	74.00	-21.24	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:

Humidity: 47.5 % RH 23.5 °C Atmospheric Pressure: 1020 mbar Temperature:

#### 7 4 4 Tost Made Description

7.4.1 Test W	7.4.1 Test Mode Description								
Pre-scan / Final test	Mode Code	Description							
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	07	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.							



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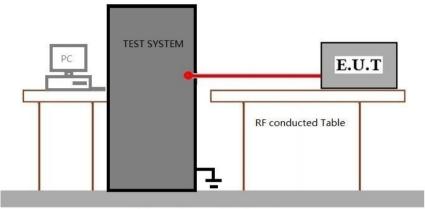


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### 7.4.2 Test Setup Diagram



Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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### 7.5 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

### 7.5.1 E.U.T. Operation

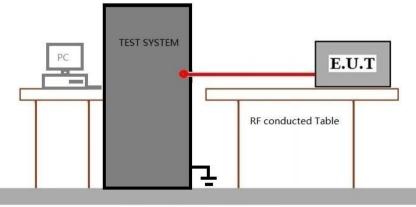
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.5 °C Humidity: 47.5 % RH

7.5.1 **Test Mode Description** 

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.5.2 Test Setup Diagram



Ground Reference Plane

#### 7.5.3 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) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

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

### 7.6.1 E.U.T. Operation

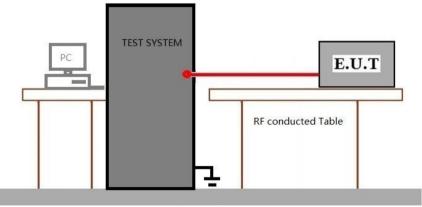
Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

7.6.1 **Test Mode Description** 

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

### 7.6.2 Test Setup Diagram



Ground Reference Plane

### 7.6.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.7 Conducted Band Edges Measurement

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

Limit:

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

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

7.7.1 **Test Mode Description** 

7.7.1		rest mode besoription
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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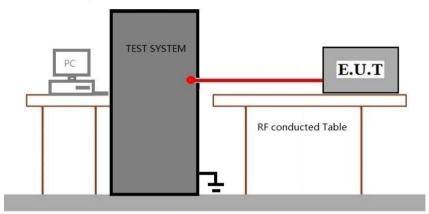


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### 7.7.2 Test Setup Diagram



Ground Reference Plane

#### 7.7.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 Conducted Spurious Emissions

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

Limit:

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

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

7.8.1 **Test Mode Description** 

7.0.1		rest mode besoription
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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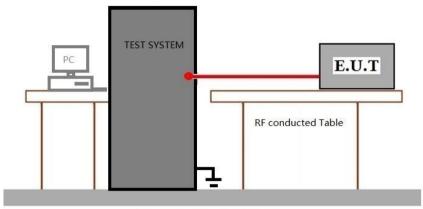


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### 7.8.2 Test Setup Diagram



Ground Reference Plane

#### 7.8.3 Measurement Procedure and Data

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#### **Test Setup Photo** 8

Refer to Setup Photo for SZCR2410003893AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2410003893AT



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## 10 Appendix

For right earbuds:

1. Duty Cycle

1.1 Test Result

### 1.1.1 Ant1

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
	SISO	2402	0.407	0.625	65.12	1.86	0.04				
1M		2440	0.407	0.625	65.12	1.86	0.05				
		2480	0.408	0.625	65.28	1.85	0.03				
	SISO		2404	0.240	0.625	38.40	4.16	0.03			
2M		2440	0.240	0.625	38.40	4.16	0.00				
		2478	0.240	0.625	38.40	4.16	0.03				



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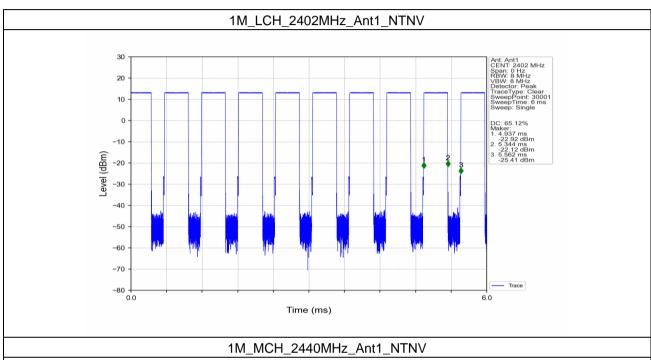
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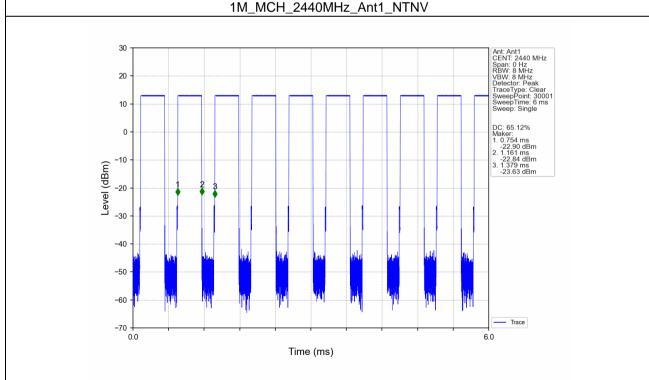
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### 1.2 Test Graph

#### 1.2.1 Ant1







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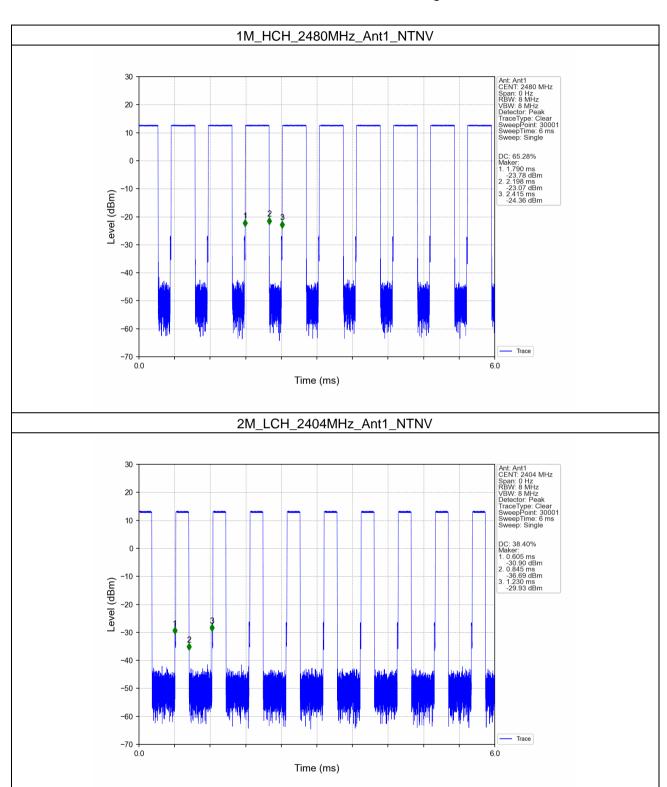
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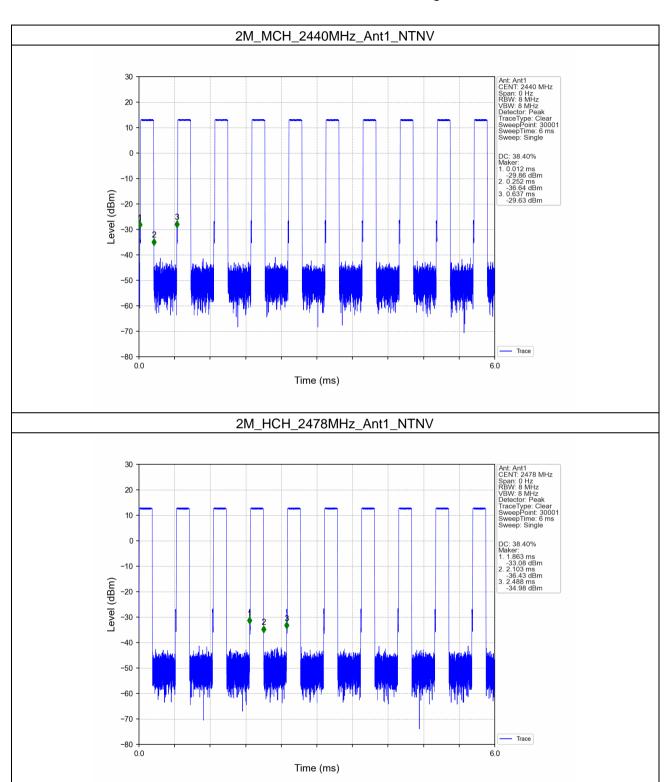
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### 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode TX Type	TX	Frequency	Frequency		99% Occupied Bandwidth (MHz)		
	(MHz)	ANT	Result	Limit	Verdict		
		2402	1	1.016	/	Pass	
1M	SISO	2440	1	1.014	/	Pass	
		2480	1	1.016	/	Pass	
		2404	1	2.002	/	Pass	
2M	SISO	2440	1	2.003	/	Pass	
		2478	1	2.004	/	Pass	

### 2.1.2 6dB BW

Mode	TX	TX Frequency		6dB Bandv	Vordict	
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.674	>=0.5	Pass
1M	SISO	2440	1	0.663	>=0.5	Pass
		2480	1	0.664	>=0.5	Pass
		2404	1	1.154	>=0.5	Pass
2M	SISO	2440	1	1.162	>=0.5	Pass
		2478	1	1.163	>=0.5	Pass



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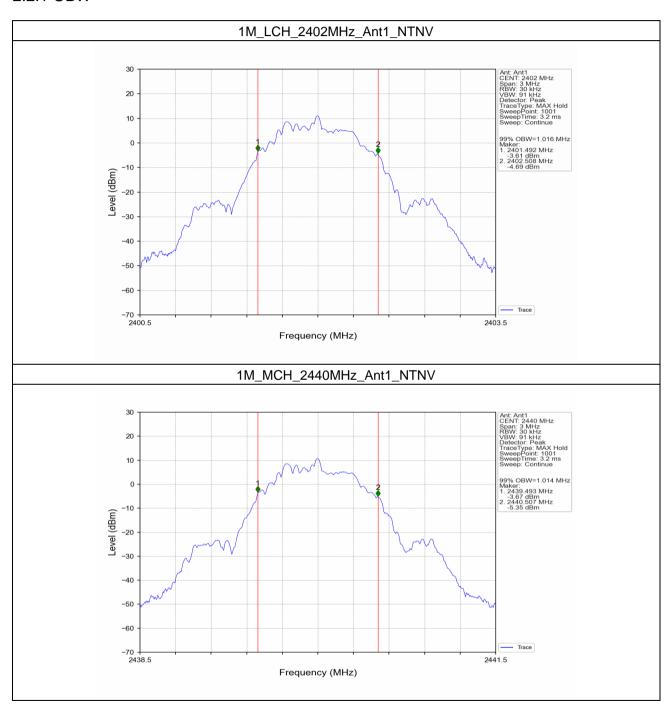
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### 2.2 Test Graph

### 2.2.1 OBW





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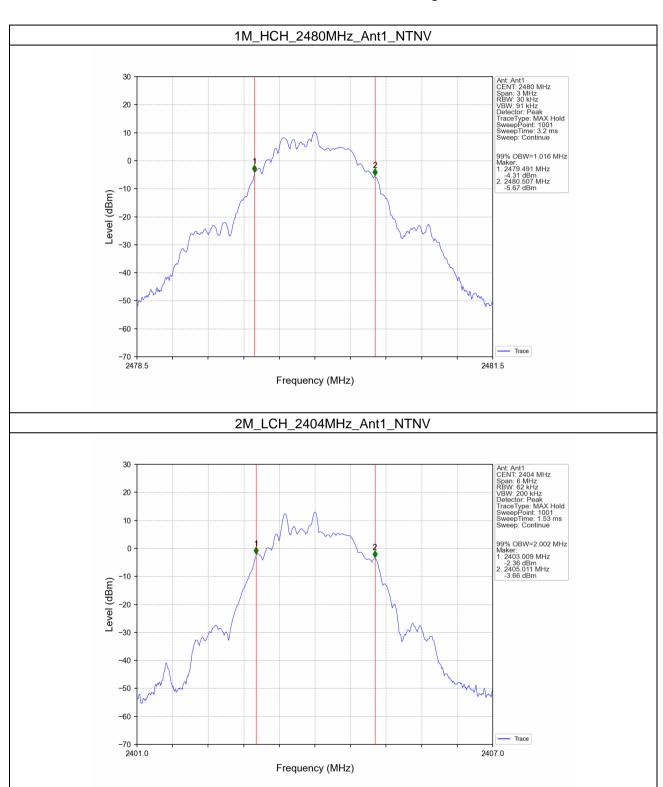
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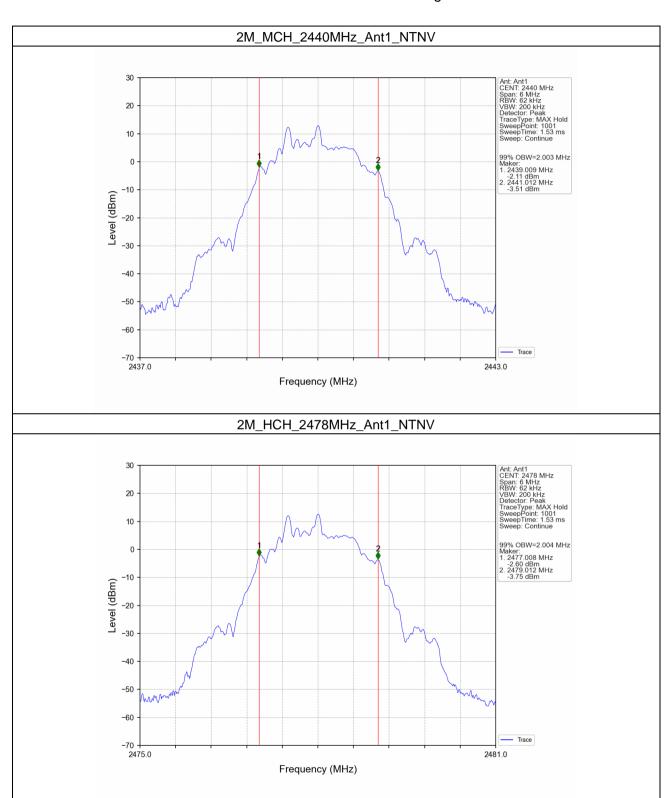
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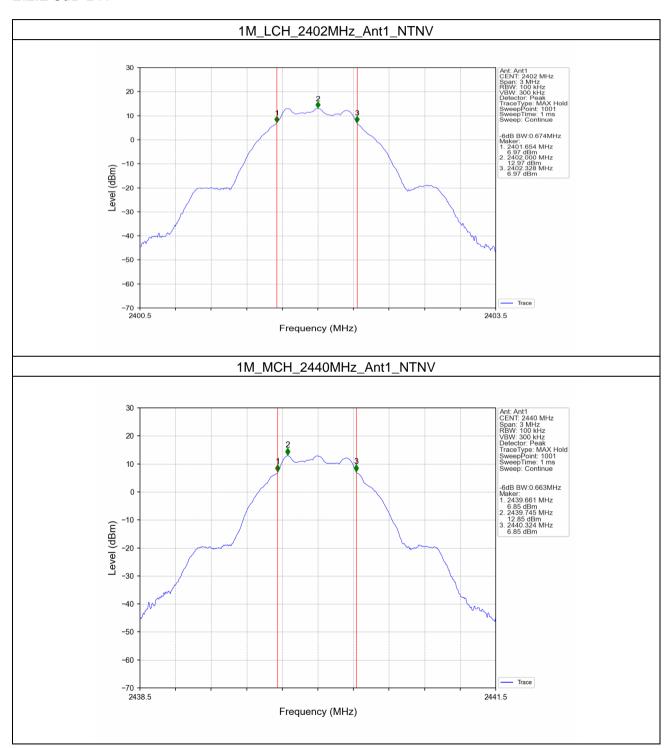


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#### 2.2.2 6dB BW





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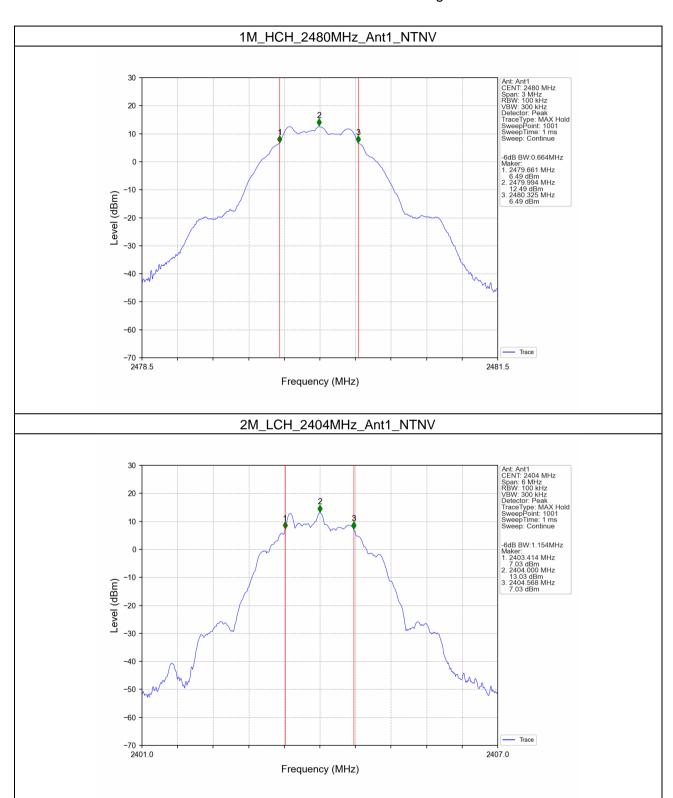
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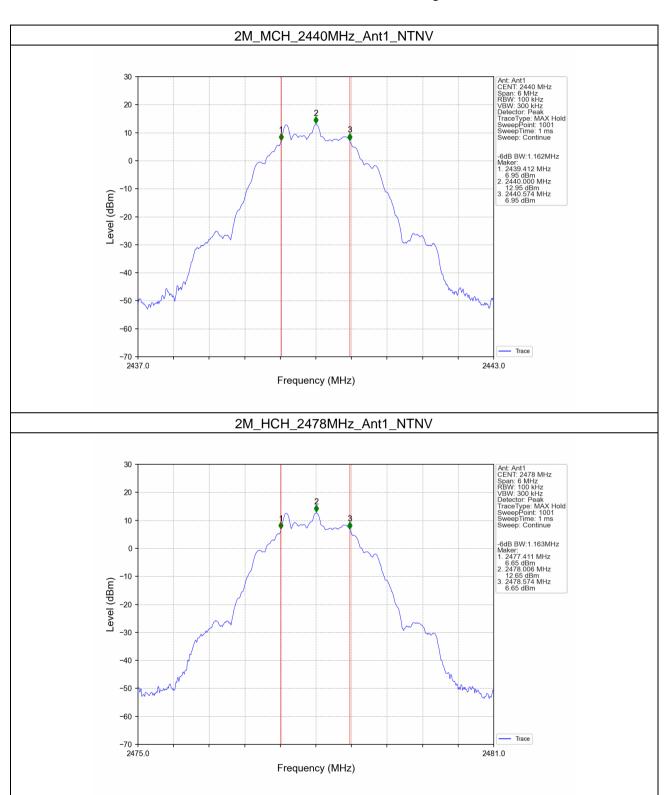
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### 3. Maximum Conducted Output Power

### 3.1 Test Result

#### 3.1.1 Power

Maria TX	TX	Frequency	Maximum Peak Condu	cted Output Power (dBm)	\/a.rd:a4
Mode	Type	(MHz)	ANT1	Limit	Verdict
	2402	11.14	<=30	Pass	
1M	SISO	2440	11.03	<=30	Pass
		2480	10.67	<=30	Pass
		2404	11.11	<=30	Pass
2M	SISO	2440	11.03	<=30	Pass
		2478	10.72	<=30	Pass

### 4. Maximum Power Spectral Density

### 4.1 Test Result

### 4.1.1 PSD

Mode	TX	Frequency	Maximum PS	Verdict	
	Туре	(MHz)	ANT1	Limit	verdict
		2402	-1.88	<=8	Pass
1M	1M SISO	2440	-2.24	<=8	Pass
		2480	-2.97	<=8	Pass
		2404	-4.80	<=8	Pass
2M SI	SISO	2440	-5.26	<=8	Pass
		2478	-5.55	<=8	Pass



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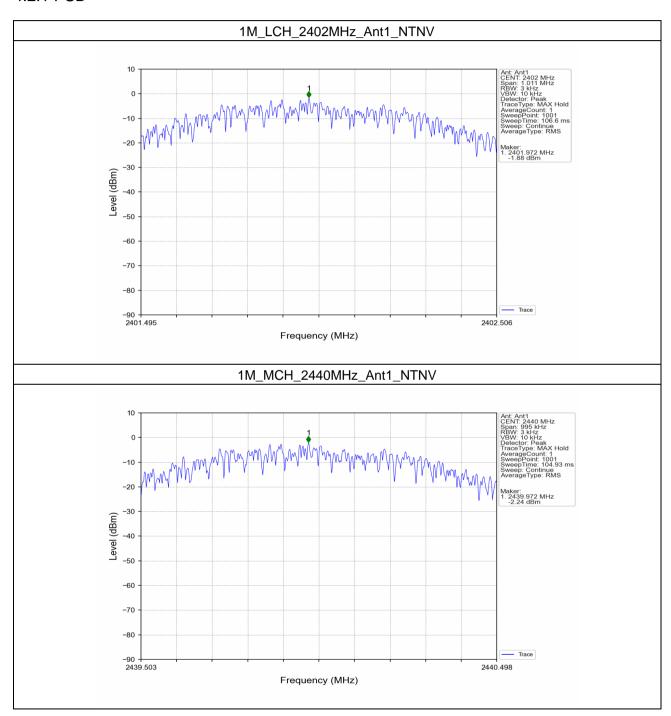
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### 4.2 Test Graph

### 4.2.1 PSD





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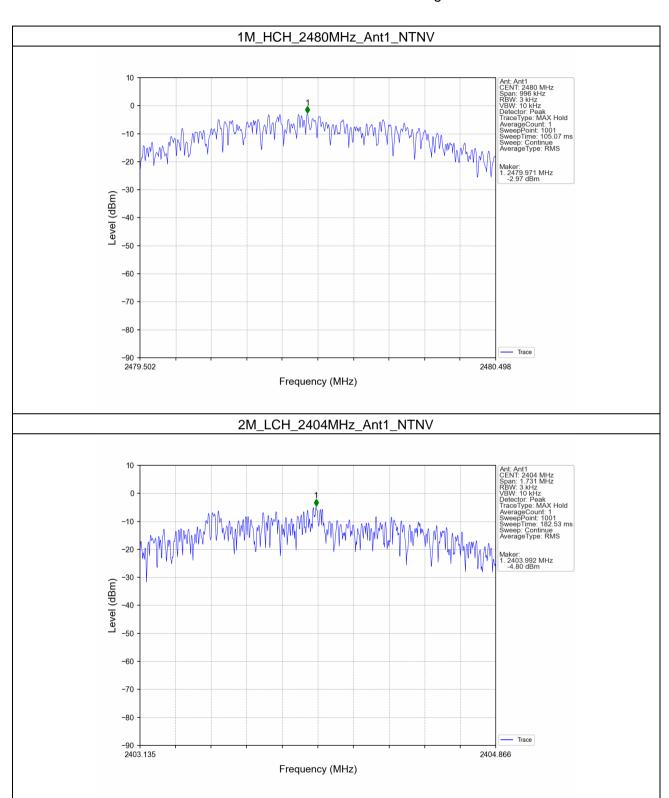
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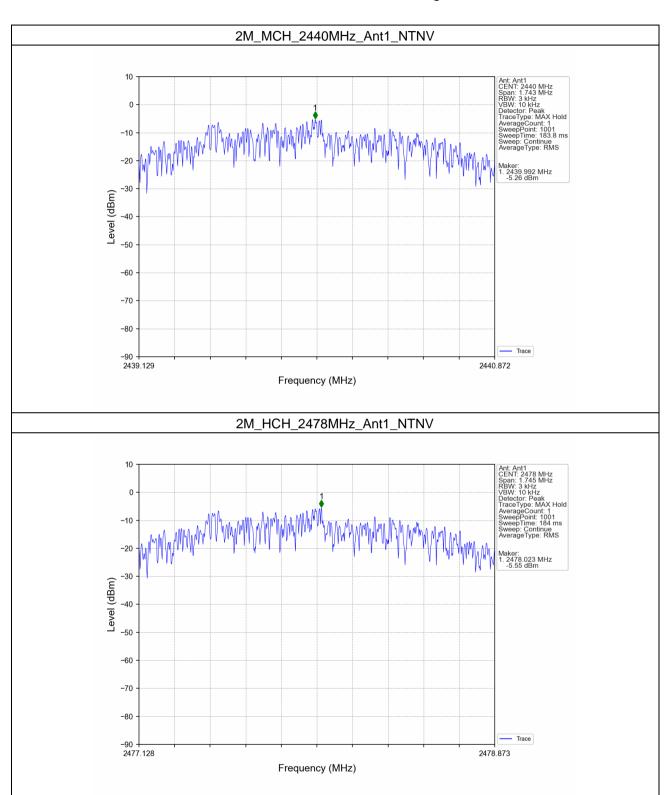
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### Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	12.95
1M	SISO	2440	1	12.83
		2480	1	12.50
		2404	1	12.95
2M	SISO	2440	1	12.85
		2478	1	12.56

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

#### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	12.95	-7.05	Pass
1M	SISO	2440	1	12.95	-7.05	Pass
		2480	1	12.95	-7.05	Pass
		2404	1	12.95	-7.05	Pass
2M	SISO	2440	1	12.95	-7.05	Pass
		2478	1	12.95	-7.05	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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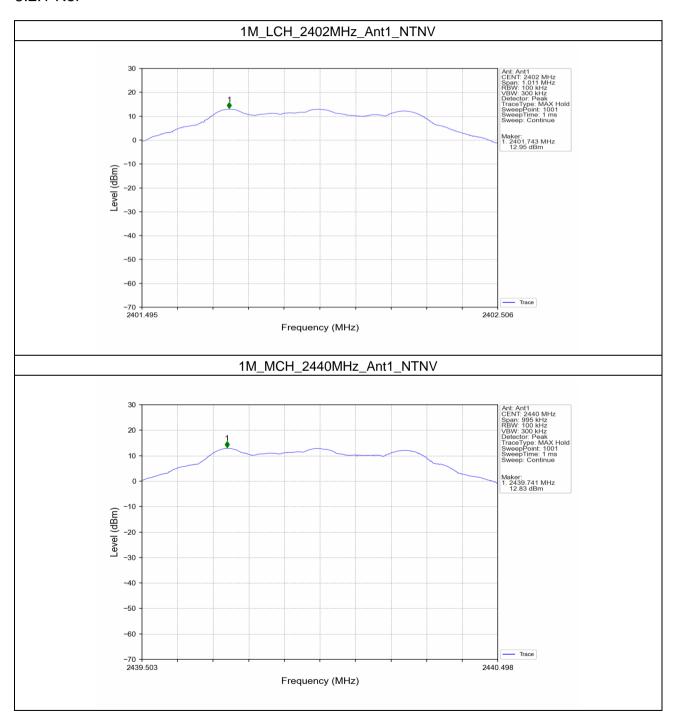
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### 5.2 Test Graph

### 5.2.1 Ref





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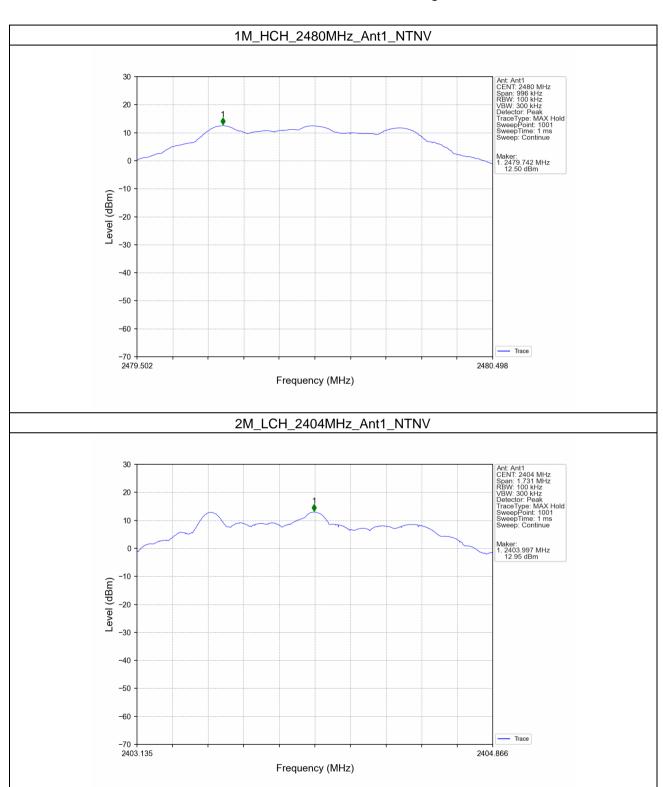
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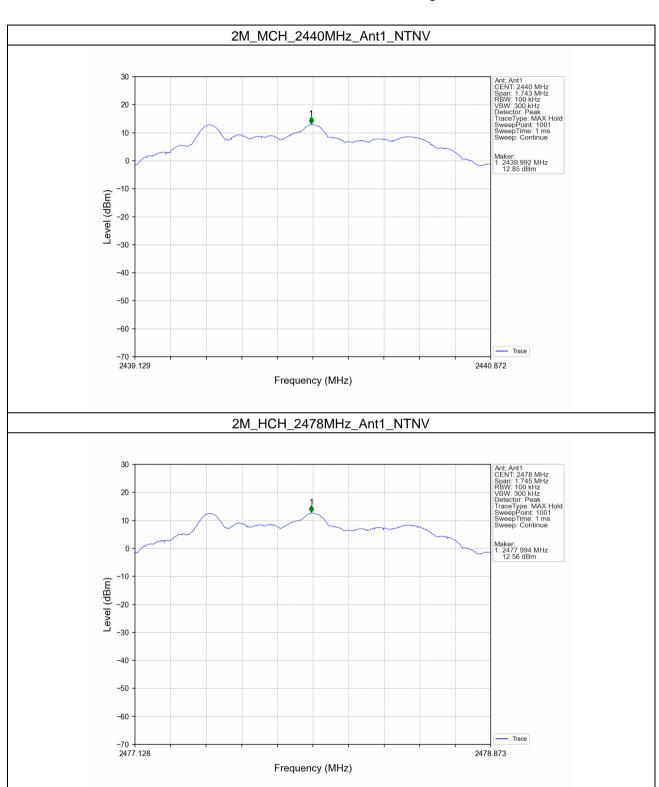
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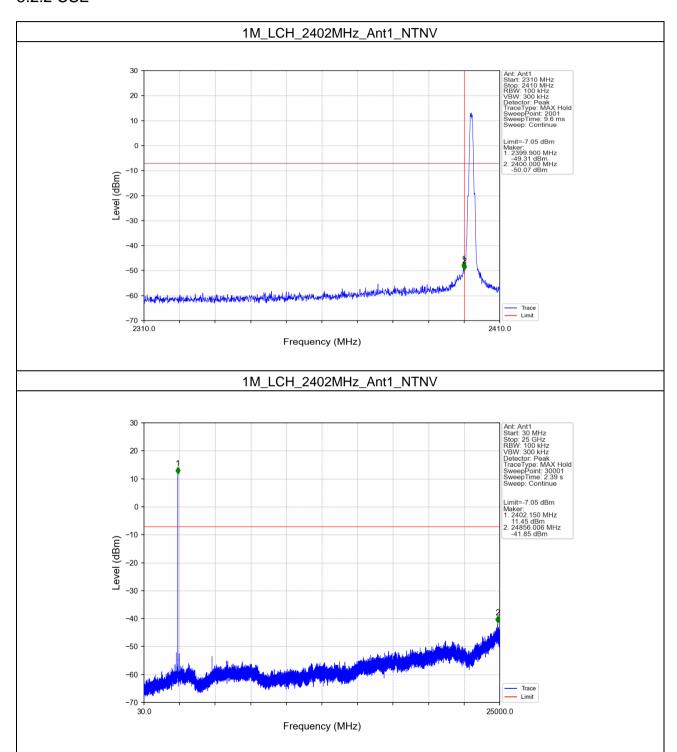


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#### 5.2.2 CSE





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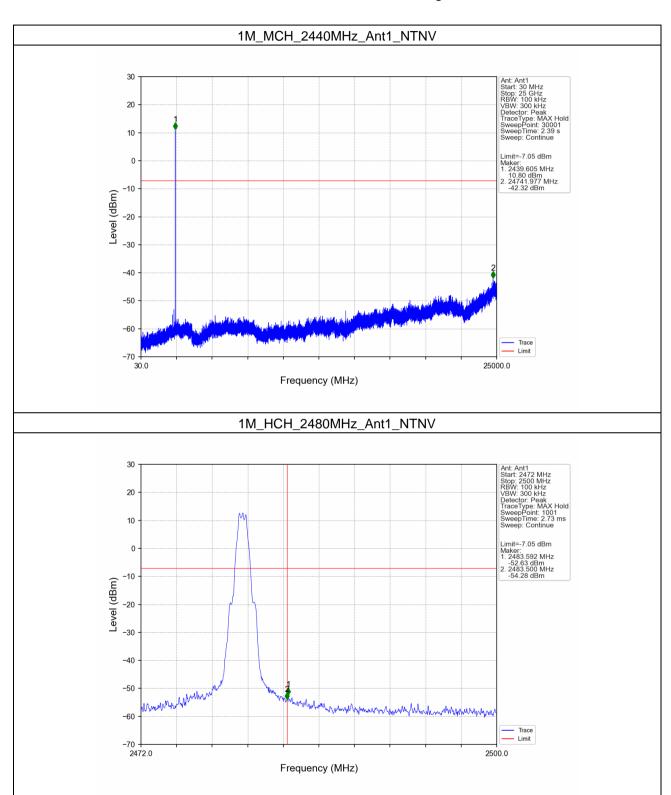
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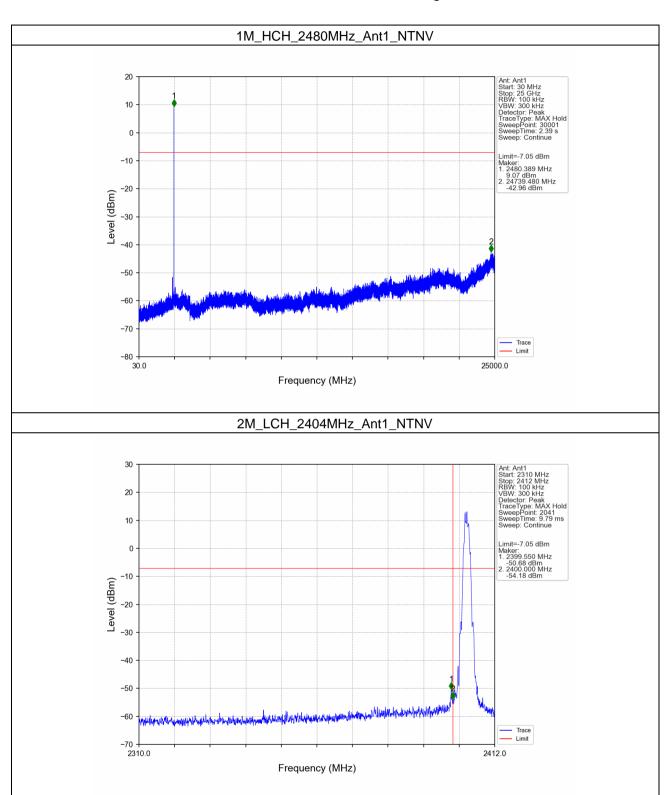
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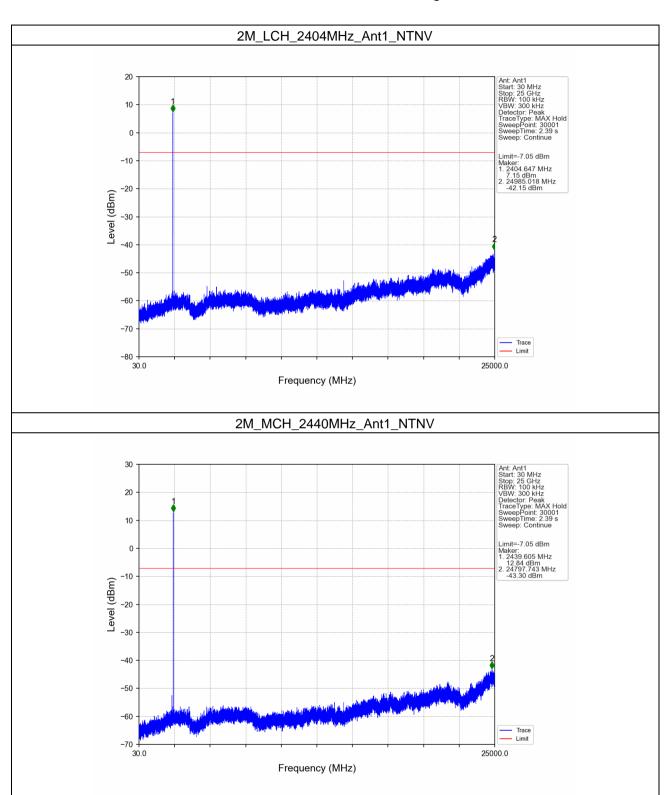
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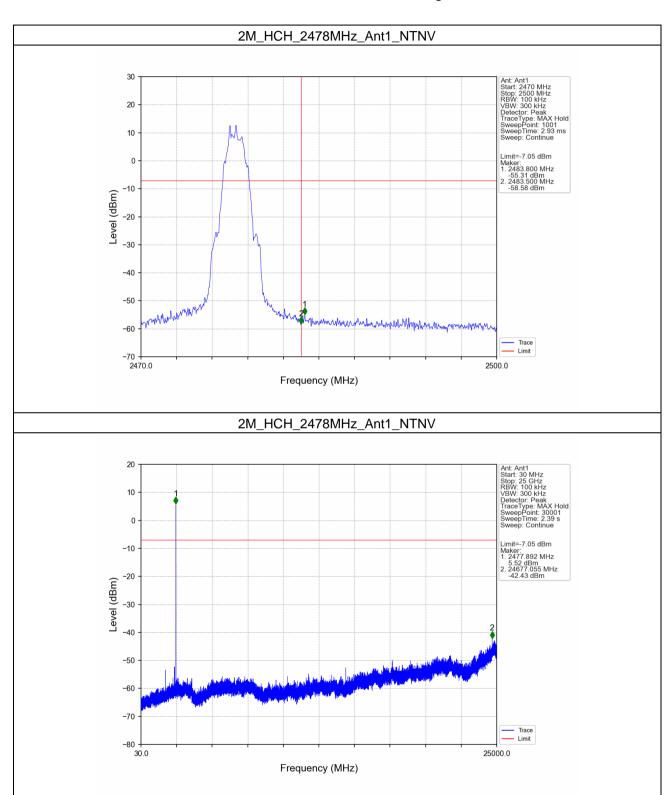
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For left earbuds:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
		2402	0.407	0.625	65.12	1.86	0.04				
1M	SISO	2440	0.407	0.625	65.12	1.86	0.02				
		2480	0.408	0.625	65.28	1.85	0.02				
		2404	0.224	0.625	35.84	4.46	0.03				
2M	SISO	2440	0.224	0.625	35.84	4.46	0.05				
		2478	0.224	0.625	35.84	4.46	0.03				



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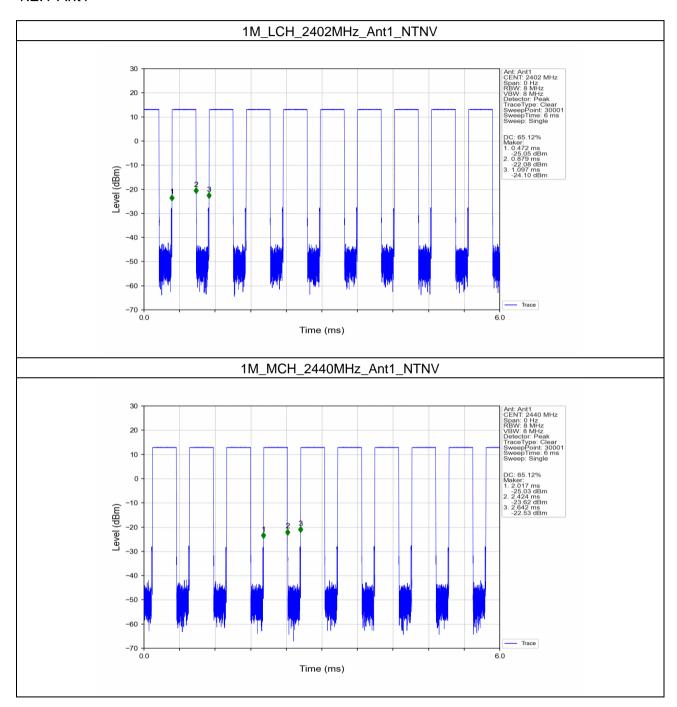
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### 1.2 Test Graph

### 1.2.1 Ant1





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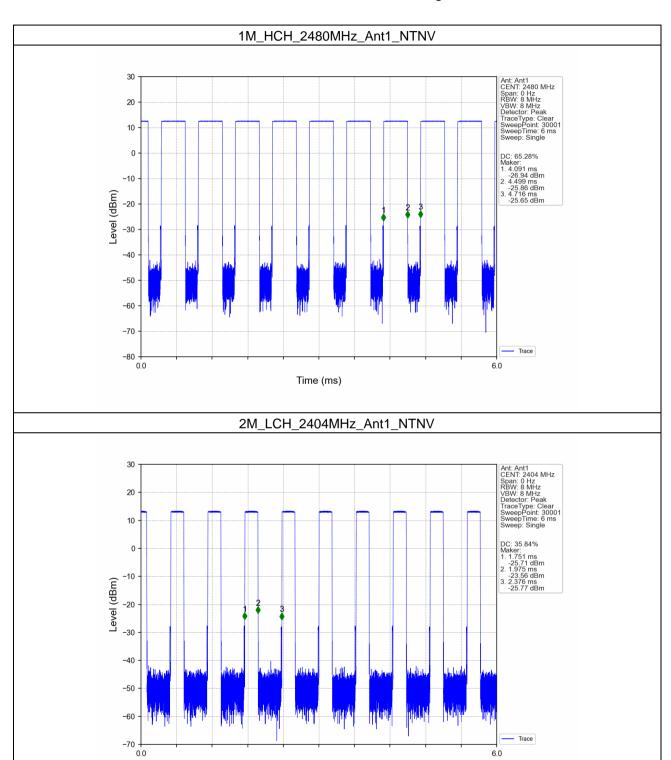
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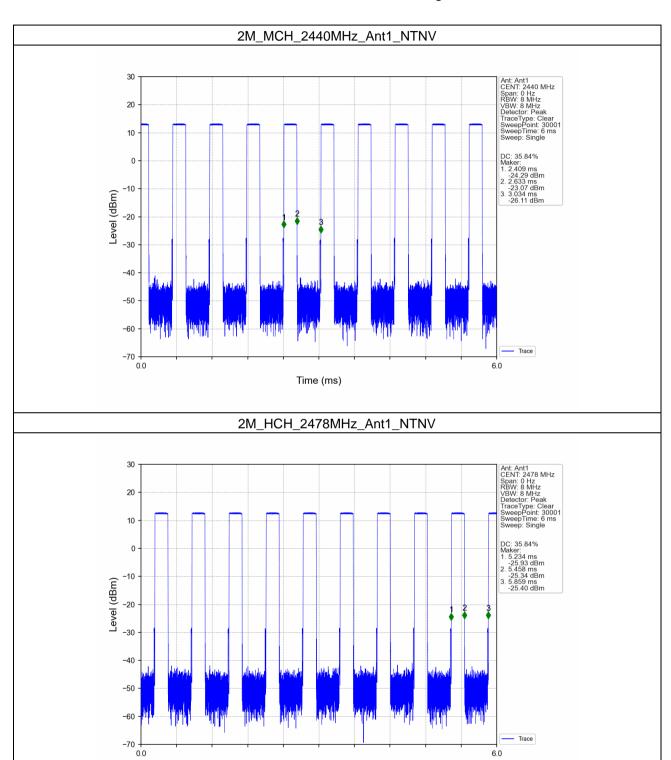
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Time (ms)



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### 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode TX Type	TX	Frequency	A NIT	99% Occupied E	99% Occupied Bandwidth (MHz)		
	(MHz)	ANT	Result	Limit	Verdict		
		2402	1	1.014	/	Pass	
1M	SISO	2440	1	1.019	/	Pass	
		2480	1	1.022	/	Pass	
		2404	1	2.005	/	Pass	
2M	SISO	2440	1	2.005	/	Pass	
		2478	1	2.009	/	Pass	

#### 2.1.2 6dB BW

Mada	TX	TX Frequency		6dB Bandv	Vardiet	
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.664	>=0.5	Pass
1M	SISO	2440	1	0.662	>=0.5	Pass
		2480	1	0.676	>=0.5	Pass
		2404	1	1.163	>=0.5	Pass
2M	SISO	2440	1	1.160	>=0.5	Pass
		2478	1	1.161	>=0.5	Pass



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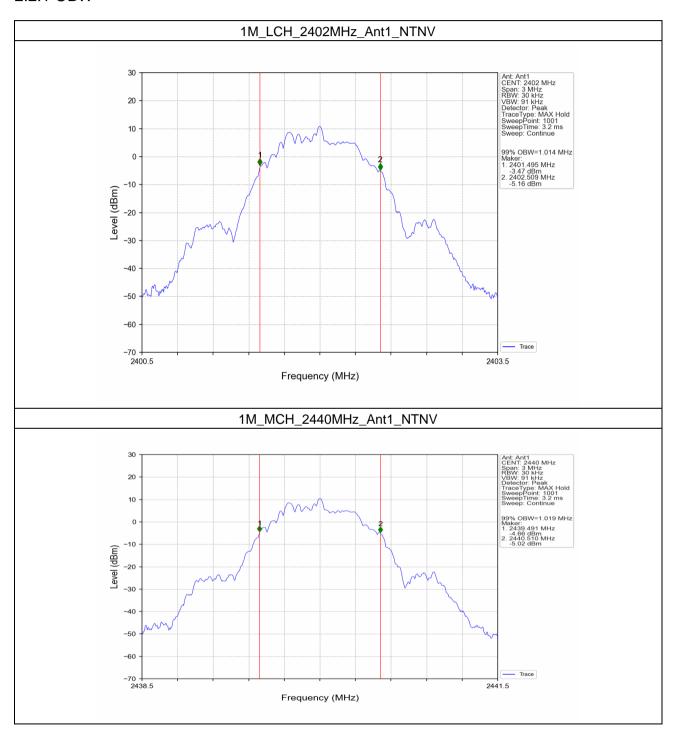
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### 2.2 Test Graph

### 2.2.1 OBW





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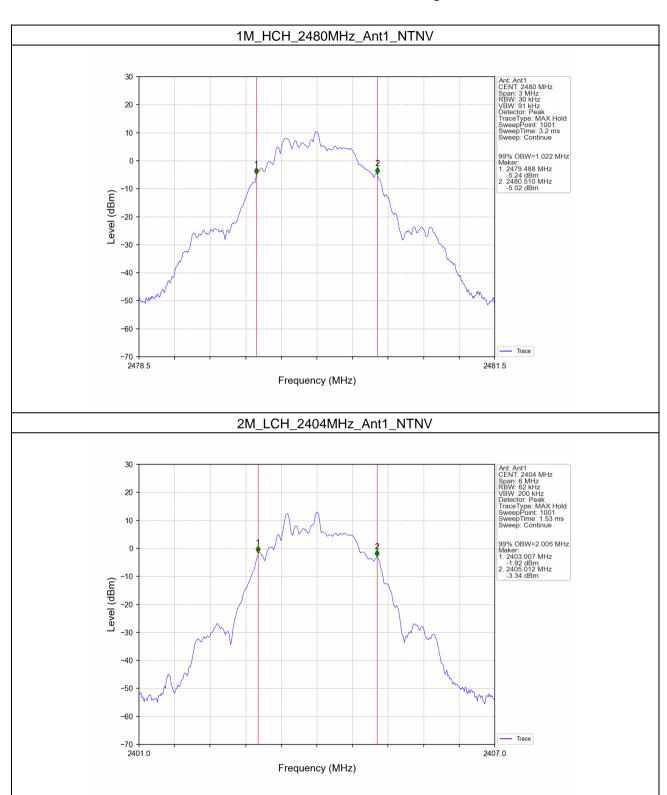
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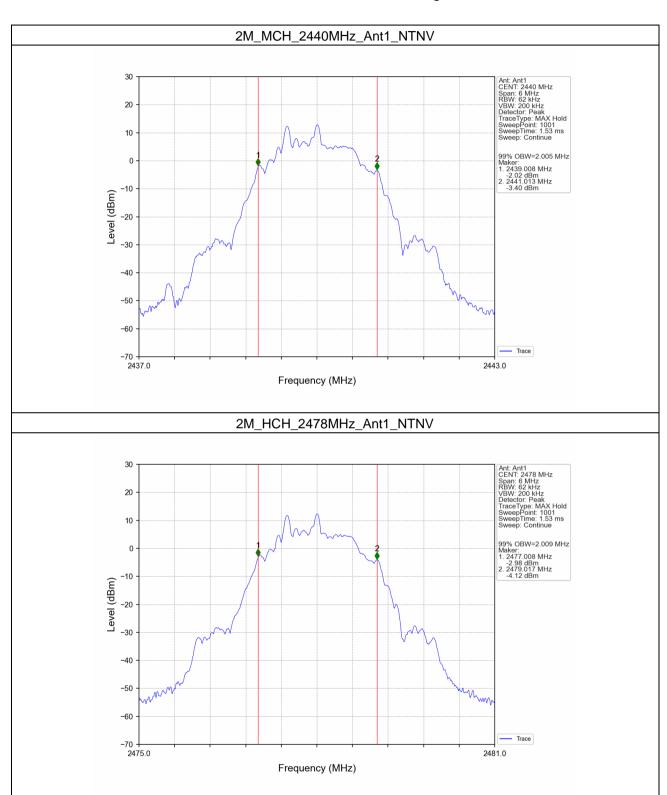
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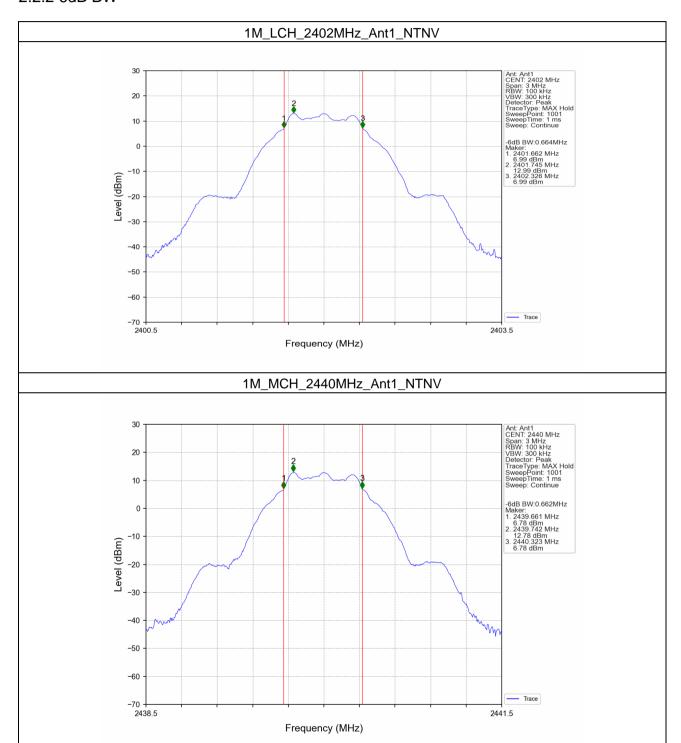


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#### 2.2.2 6dB BW





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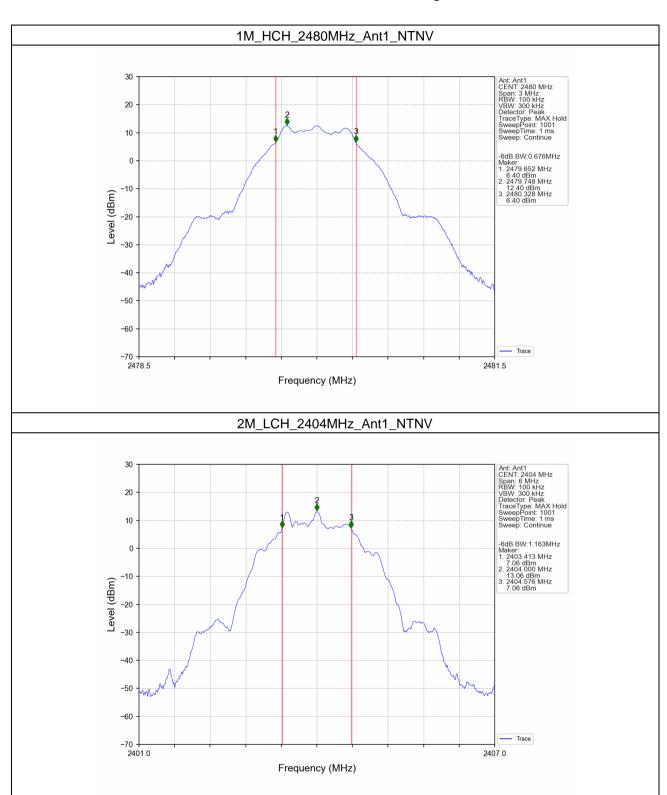
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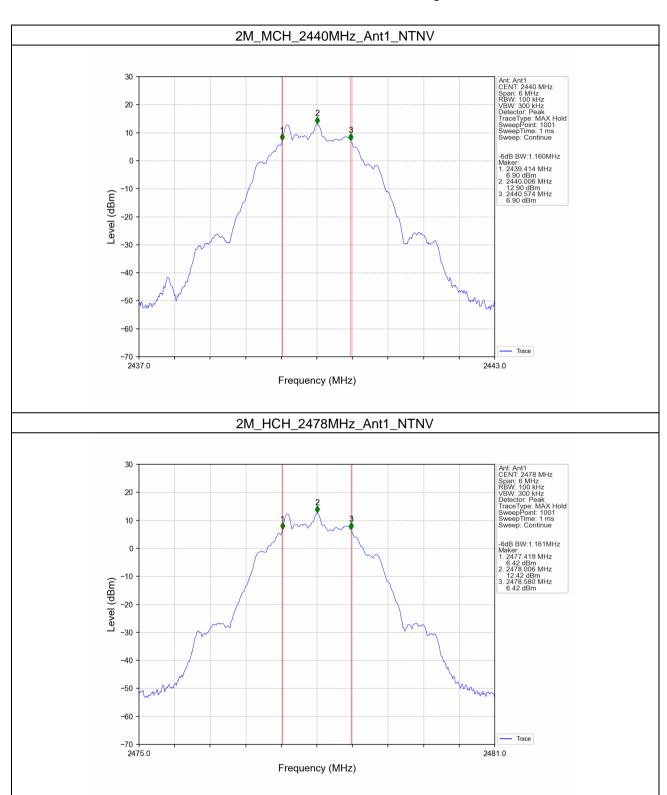
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### 3. Maximum Conducted Output Power

### 3.1 Test Result

#### 3.1.1 Power

Made T	TX	Frequency	Maximum Peak Conduc	\/ordiot	
Mode	Type	(MHz)	ANT1	Limit	Verdict
	2402	11.11	<=30	Pass	
1M	1M SISO	2440	10.91	<=30	Pass
		2480	10.55	<=30	Pass
		2404	11.12	<=30	Pass
2M	SISO	2440	10.97	<=30	Pass
		2478	10.48	<=30	Pass
Note1: Ante	nna Gain: Ant	1: -2.30dBi;	•		

### 4. Maximum Power Spectral Density

### 4.1 Test Result

### 4.1.1 PSD

Mode	TX	Frequency	Maximum PS	Verdict	
	Type	(MHz)	ANT1	Limit	verdict
		2402	-2.18	<=8	Pass
1M	1M SISO	2440	-2.73	<=8	Pass
		2480	-2.57	<=8	Pass
2M SISO	2404	-5.09	<=8	Pass	
	SISO	2440	-5.24	<=8	Pass
		2478	-5.28	<=8	Pass



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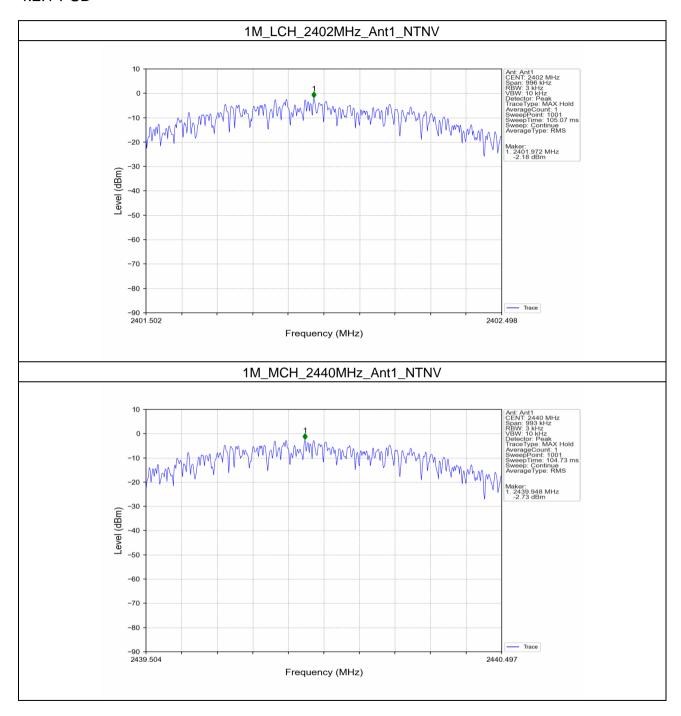
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### 4.2 Test Graph

### 4.2.1 PSD





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