

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100364103

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TEST REPORT

Application No.: SZCR2311003641AT

Applicant: Lovepac Technology (Shenzhen) Co., Ltd

Address of Applicant: 1F, No.3 Building, No.1 Lirong Road, Dalang Street, Longhua District,

Shenzhen, Guang dong, 518109 China

Manufacturer: Lovepac Technology (Shenzhen) Co., Ltd

Address of Manufacturer: 1F, No.3 Building, No.1 Lirong Road, Dalang Street, Longhua District,

Shenzhen, Guang dong, 518109 China

Equipment Under Test (EUT):

Product Name: TWS wireless Bluetooth earbuds

Model No.(EUT): Bang, Lagom

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: RÖtt KRÖN FCC ID: 2BDZ6T302

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

2023-11-13 **Date of Receipt:**

2023-11-15 to 2023-11-29 Date of Test:

Date of Issue: 2023-12-04

Pass* Test Result:

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	Chapter	Date	Modifier	Remark			
01		2023-12-04		Original			

Authorized for issue by:		
	Bonson Wond	
	Benson Wang/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)		

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Radiated Emissions which fall in the restricted bands	Subpart C 15.247	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	

Remark:

Model No.: Bang, Lagom

Only the model Lagom was tested in this report, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for the earbuds as all the above models, with only difference on travel case.



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General Information

Details of E.U.T. 4.1

Power supply:	Left earbuds: Li-Ion Polymer Battery DC3.7V 35mAh (Charged by travel case)		
	Right earbuds: Li-Ion Polymer Battery DC3.7V 35mAh (Charged by travel case)		
	travel case with backup battery: Li-Ion Polymer Battery DC3.7V 400mAh (Charged by USB port)		
Cable(s):	Type-C cable: 33.8cm unshielded		
Bluetooth Version:	V5.2 Dual mode		
Operation Frequency:	2402MHz to 2480MHz		
Data Rate:	Support 1M/2Mbps		
Modulation Type:	GFSK		
Channel Spacing:	2MHz		
Number of Channels:	40		
Antenna Type:	Ceramic patch antenna		
Antenna Gain:	Left earbuds: 0.28dBi; Right earbuds: 1.23dBi		
Cable loss (for RF conducted test):	0.5dBi		

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	The EUT has been tested as an independent unit.						



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4.3 Measurement Uncertainty

Measurement Uncertainty ± 0.75dB ± 3%
± 3%
± 2.84dB
± 0.75dB
± 0.75dB
6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
6.0dB for 3m; ± 5.0dB for 10m
4.6dB (1-18GHz);± 4.8dB (18- 40GHz)

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**

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	SEM011-11	2023-10-19	2024-10-18
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	2023-07-07	2024-07-06
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	2023-10-19	2024-10-18	
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	2023-07-07	2024-07-06	
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	2023-10-19	2024-10-18
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	2023-07-07	2024-07-06
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 Du					
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
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	2023-07-07	2024-07-06



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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	2023-10-19	2024-10-18
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	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Radiated Emissions wh	Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AIIIIX		SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
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
10m Semi-Anechoic Chamber	SAEMC:		SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber			SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
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

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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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 Left earbuds: 0.28dBi; Right earbuds: 1.23dBi.

Antenna location: Refer to internal photos



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Radio Spectrum Matter Test Results 7

7.1 Conducted Peak Output Power

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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5725-5850 1 for frequency hopping systems and digital modulation			

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation



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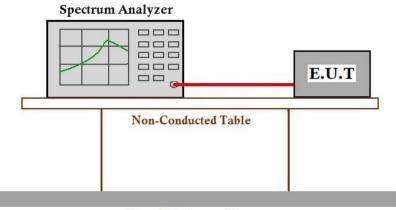
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7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 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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7.2 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

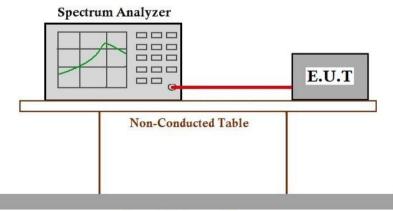
Operating Environment:

Temperature: 23.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description		
Final test	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation		
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation		
Final test	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation		
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation		

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Power Spectrum Density

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

Limit:

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

7.3.1 E.U.T. Operation

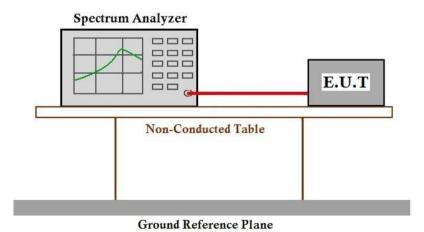
Operating Environment:

Temperature: 23.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 Conducted Band Edges Measurement

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

7.7.2 10001		
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation



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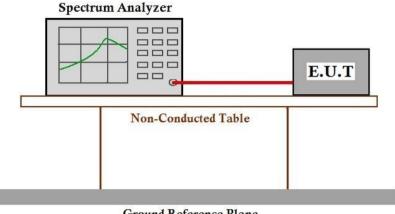
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7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

7.0.2 103110		
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation



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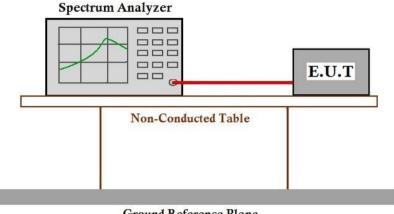
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

7.0.2 103010	ioao bo	oon paon
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation



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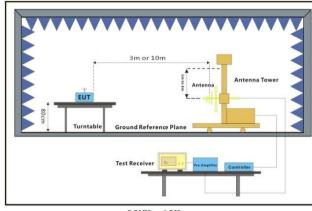
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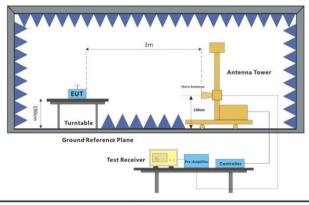


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7.6.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz

7.6.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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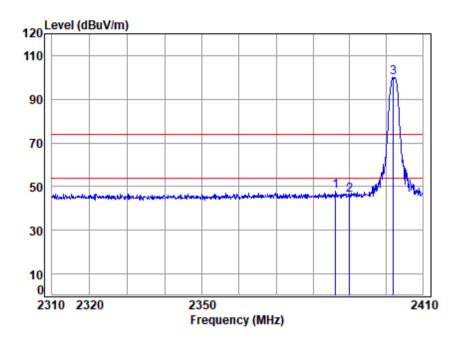


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

Mode : 2402 Band edge

: BLE 1M Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.22	5.07	29.10	37.44	51.06	47.79	74.00	-26.21	peak
2	2390.00	5.08	29.10	37.44	49.36	46.10	74.00	-27.90	peak
3	2402.00	5.09	29.09	37.41	103.03	99.80	74.00	25.80	peak



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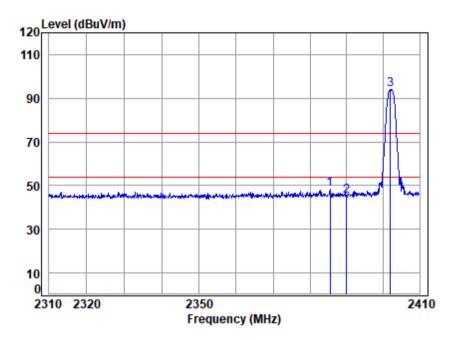


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 03641AT : 2402 Band edge Mode

Note . BLF 1M

JLE	. DLL	TIN								
		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	2385.41	5.07	29.10	37.45	51.43	48.15	74.00	-25.85	peak	
2	2390.00	5.08	29.10	37.44	48.60	45.34	74.00	-28.66	peak	
3	2402.00	5.09	29.09	37.41	97.08	93.85	74.00	19.85	neak	



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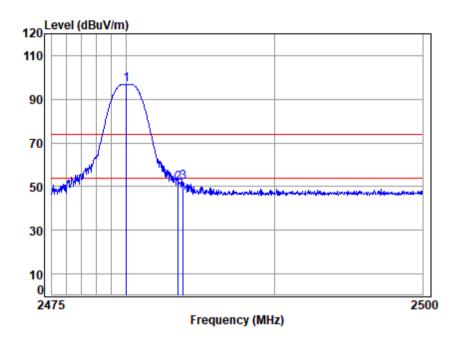


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

: 2480 Band edge Mode

: BLF 1M Note

OCC	. DLL	TIT								
		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	2480.00	5.16	28.90	37.22	100.08	96.92	74.00	22.92	peak	
2	2483.50	5.16	28.90	37.22	54.56	51.40	74.00	-22.60	peak	
3	2483 82	5 16	28 90	37 22	55 31	52 15	74 00	-21 85	neak	



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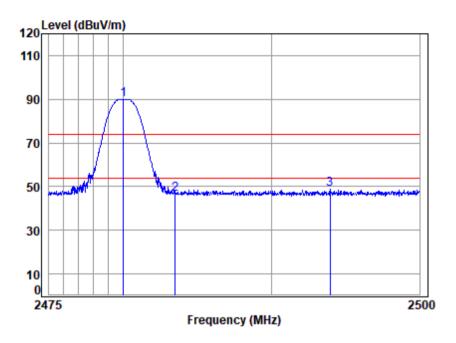


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03641AT

Mode : 2480 Band edge

: BLE 1M Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.00	5.16	28.90	37.22	93.16	90.00	74.00	16.00	peak
2	2483.50	5.16	28.90	37.22	49.69	46.53	74.00	-27.47	peak
3	2493.93	5.17	28.90	37.19	52.01	48.89	74.00	-25.11	peak



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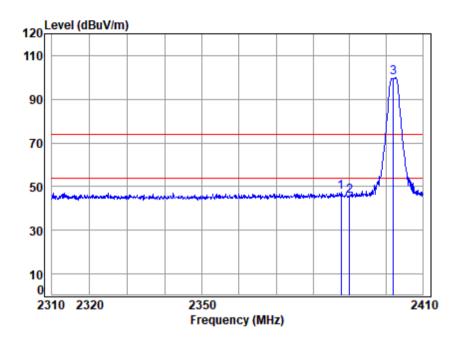


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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

Mode : 2402 Band edge

: BLE 2M Note

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.64	5.07	29.10	37.44	50.69	47.42	74.00	-26.58	peak
2	2390.00	5.08	29.10	37.44	49.05	45.79	74.00	-28.21	peak
3	2402.00	5.09	29.09	37.41	103.09	99.86	74.00	25.86	peak



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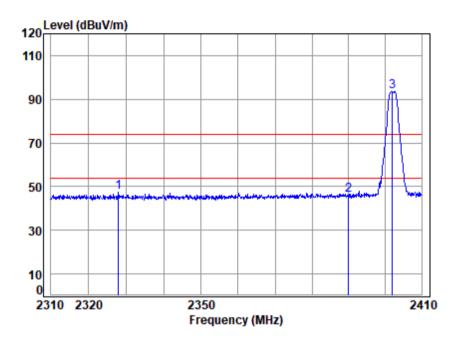


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 03641AT

Mode : 2402 Band edge

: BLE 2M Note

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2327.89	5.02	28.79	37.59	51.04	47.26	74.00	-26.74	peak
2	2390.00	5.08	29.10	37.44	49.20	45.94	74.00	-28.06	peak
3	2402.00	5.09	29.09	37.41	96.70	93.47	74.00	19.47	peak



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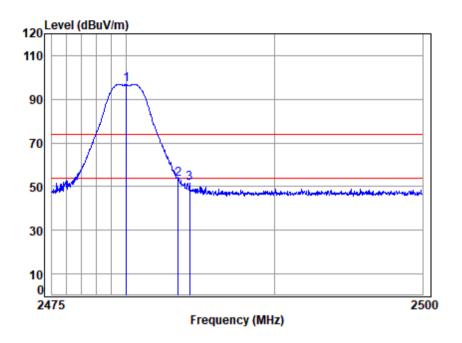


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

: 2480 Band edge Mode

Note . BLF 2M

, ce	. DLL	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	2480.00	5.16	28.90	37.22	100.10	96.94	74.00	22.94	peak	
2	2483.50	5.16	28.90	37.22	56.44	53.28	74.00	-20.72	peak	
3	2484.27	5.16	28.90	37.21	54.78	51.63	74.00	-22.37	neak	



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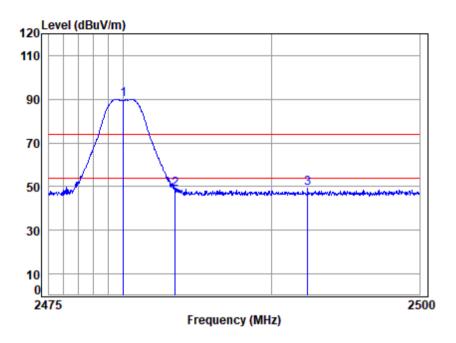


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Report No.: SZCR231100364103

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



Site : chamber Condition: 3m VERTICAL : 03641AT

: 2480 Band edge Mode

Note . BLF 2M

IOCE	. DLL	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	2480.00	5.16	28.90	37.22	93.18	90.02	74.00	16.02	peak	
2	2483.50	5.16	28.90	37.22	51.79	48.63	74.00	-25.37	peak	
3	2492.42	5.17	28.90	37.20	52.32	49.19	74.00	-24.81	neak	



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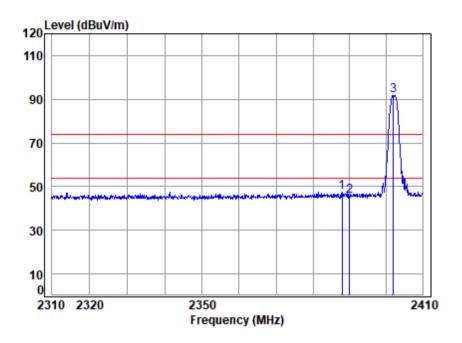


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

: 2402 Band edge Mode

Note . BLF 1M

loce	. DLL	TIL								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2387.94	5.07	29.10	37.44	50.83	47.56	74.00	-26.44	peak	
2	2390.00	5.08	29.10	37.44	48.70	45.44	74.00	-28.56	peak	
3	2402.00	5.09	29.09	37.41	94.90	91.67	74.00	17.67	neak	



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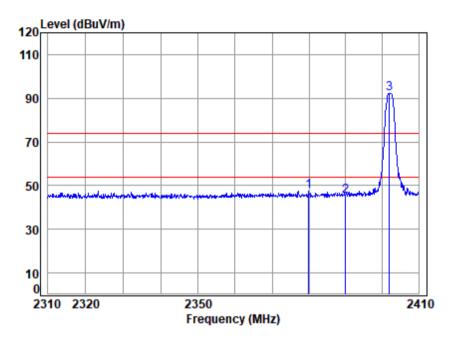


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03641AT

Mode : 2402 Band edge

: BLE 1M Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2379.86	5.07	29.10	37.46	50.74	47.45	74.00	-26.55	peak
2	2390.00	5.08	29.10	37.44	48.58	45.32	74.00	-28.68	peak
3	2402.00	5.09	29.09	37.41	95.57	92.34	74.00	18.34	peak



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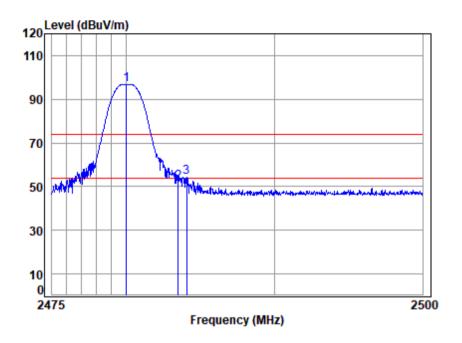


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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

: 2480 Band edge Mode

Note : BLE 1M

,,,,	. DLL	T1.1								
		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	2480.00	5.16	28.90	37.22	100.00	96.84	74.00	22.84	peak	
2	2483.50	5.16	28.90	37.22	54.95	51.79	74.00	-22.21	peak	
3	2484.05	5.16	28.90	37.22	57.29	54.13	74.00	-19.87	neak	



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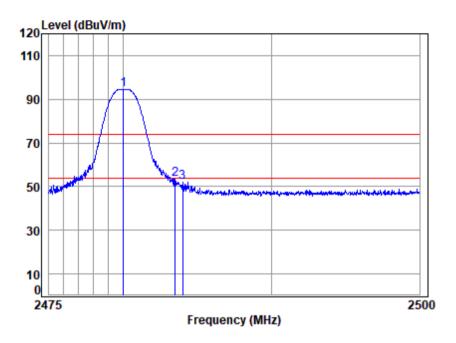


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03641AT

: 2480 Band edge Mode

Note . BLF 1M

oce	. DLL	TIL								
		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	2480.00	5.16	28.90	37.22	97.72	94.56	74.00	20.56	peak	
2	2483.50	5.16	28.90	37.22	56.34	53.18	74.00	-20.82	peak	
3	2484.00	5.16	28.90	37.22	55.30	52.14	74.00	-21.86	neak	



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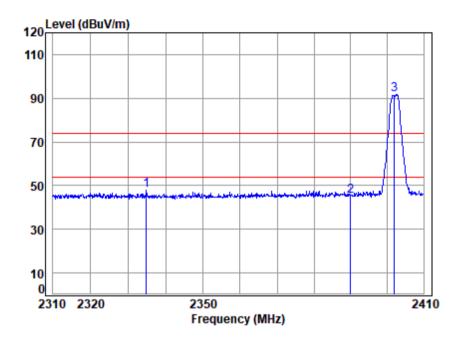


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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

: 2402 Band edge Mode

Note . BLF 2M

JLE	. DLL	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	2334.80	5.02	28.89	37.57	51.51	47.85	74.00	-26.15	peak	
2	2390.00	5.08	29.10	37.44	48.36	45.10	74.00	-28.90	peak	
3	2402.00	5.09	29.09	37.41	94.92	91.69	74.00	17.69	neak	



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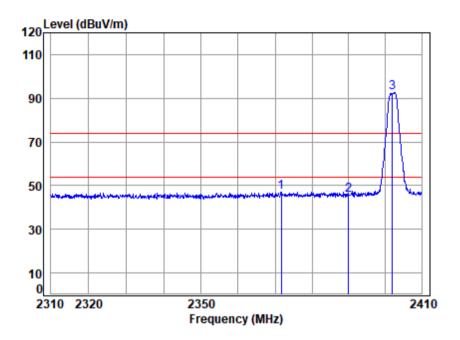


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 03641AT

: 2402 Band edge Mode

Note . BLF 2M

oce	. DLL	211								
		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	2371.70	5.06	29.10	37.48	50.34	47.02	74.00	-26.98	peak	
2	2390.00	5.08	29.10	37.44	48.71	45.45	74.00	-28.55	peak	
3	2402.00	5.09	29.09	37.41	95.67	92.44	74.00	18.44	neak	



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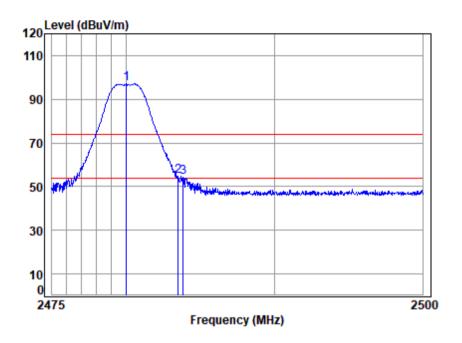


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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

: 2480 Band edge Mode

Note . BLF 2M

JLE	. DLL	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	2480.00	5.16	28.90	37.22	100.14	96.98	74.00	22.98	peak	
2	2483.50	5.16	28.90	37.22	57.93	54.77	74.00	-19.23	peak	
3	2483.82	5.16	28.90	37.22	57.40	54.24	74.00	-19.76	neak	



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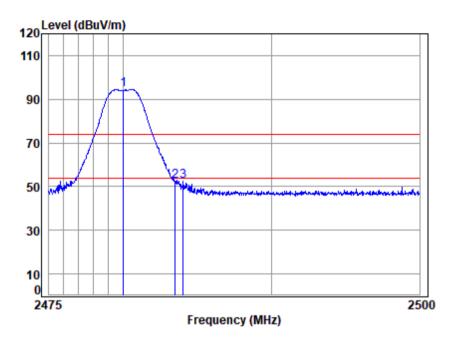


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03641AT

: 2480 Band edge Mode

Note . BLF 2M

JLE	. DLL	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	2480.00	5.16	28.90	37.22	97.72	94.56	74.00	20.56	peak	
2	2483.50	5.16	28.90	37.22	55.69	52.53	74.00	-21.47	peak	
3	2484.02	5.16	28.90	37.22	55.41	52.25	74.00	-21.75	neak	



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7.7 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 10m

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 45.1 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Pre-scan	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Pre-scan	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation								



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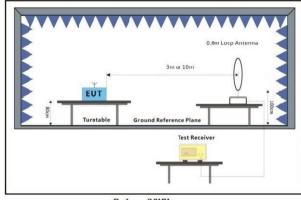
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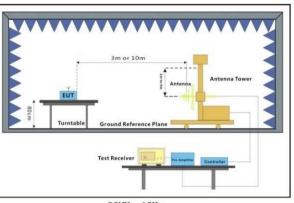


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7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.7.4 Measurement Procedure and Data

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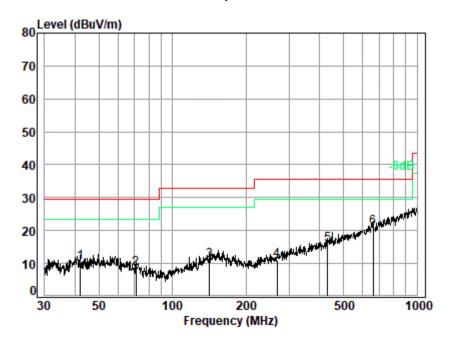


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Test Mode: 03; Polarity: Horizontal



Test Site: 10M-chamber HORIZONTAL

Job No. : 03641AT

Test mode: 03 Remark1 Remark2 :

Marker	Freq. MHz	AntFac dB/m	CabLos dB	Reading dBuV	Measured dBuV/m	Limit dBuV/m	Over dBuV	Remark
1	42.007	17.22	0.60	25.09	10.48	29.50	-19.02	QP
2	71.080	14.94	0.74	25.11	8.39	29.50	-21.11	QP
3 1	141.826	17.18	0.98	25.25	11.01	33.00	-21.99	QP
4 2	267.546	16.79	1.36	25.14	10.89	35.60	-24.71	QP
5 4	431.032	20.64	1.68	25.80	15.69	35.60	-19.91	QP
6 6	561.151	24.65	2.15	26.63	20.93	35.60	-14.67	QP



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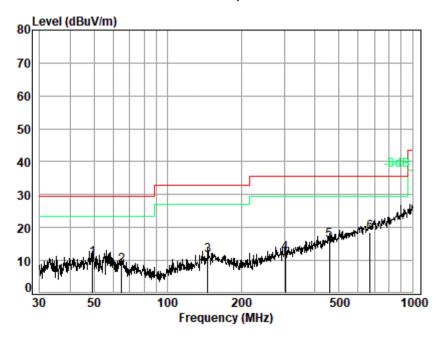


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Test Mode: 03; Polarity: Vertical



Test Site: 10M-chamber VERTICAL

Job No. : 03641AT

Test mode: 03 Remark1 : Remark2:

Marker	Freq. MHz	AntFac dB/m	CabLos dB	Reading dBuV	Measured dBuV/m	Limit dBuV/m	Over dBuV	Remark
1	49.359	17.19	0.61	25.26	10.66	29.50	-18.84	QP
2	64.887	16.16	0.69	24.02	8.47	29.50	-21.03	QP
3	145.861	17.31	1.00	25.71	11.62	33.00	-21.38	QP
4	302.481	17.71	1.44	25.49	12.24	35.60	-23.36	QP
5	459.114	21.32	1.75	25.66	16.27	35.60	-19.33	QP
6	670.489	24.68	2.16	24.22	18.56	35.60	-17.04	QP



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

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

Note:

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

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

The level at 3m test distance is below:

	The level at on test distance is below.								
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization		
42.007	10.48	3.34	11.14	20.94	40.00	-19.06	Н		
71.080	8.39	2.63	8.76	18.85	40.00	-21.15	Н		
141.826	11.01	3.55	11.84	21.47	43.50	-22.03	Н		
267.546	10.89	3.50	11.68	21.35	46.00	-24.65	Н		
431.031	15.69	6.09	20.29	26.15	46.00	-19.85	Н		
661.151	20.93	11.13	37.10	31.39	46.00	-14.61	Н		
49.359	10.66	3.41	11.37	21.12	40.00	-18.88	V		
64.887	8.47	2.65	8.84	18.93	40.00	-21.07	V		
145.861	11.62	3.81	12.70	22.08	43.50	-21.42	V		
302.481	12.24	4.09	13.64	22.70	46.00	-23.30	V		
459.114	16.27	6.51	21.70	26.73	46.00	-19.27	V		
670.489	18.56	8.47	28.24	29.02	46.00	-16.98	V		



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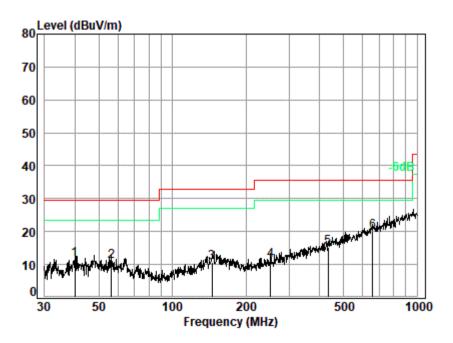


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Test Mode: 07; Polarity: Horizontal



Test Site: 10M-chamber HORIZONTAL

Job No. : 03641AT

Test mode: 07 Remark1 Remark2

Marker	Freq. MHz	AntFac dB/m	CabLos dB	Reading dBuV	Measured dBuV/m	Limit dBuV/m	Over dBuV	Remark
1	39.854	17.07	0.60	26.39	11.63	29.50	-17.87	QP
2	56.395	17.30	0.64	25.31	10.85	29.50	-18.65	QP
3 1	45.351	17.29	0.99	24.79	10.67	33.00	-22.33	QP
4 2	52.063	16.21	1.32	26.18	11.31	35.60	-24.29	QP
5 4	34.065	20.74	1.69	25.14	15.14	35.60	-20.46	QP
6 6	58.836	24.67	2.14	25.88	20.19	35.60	-15.41	QP



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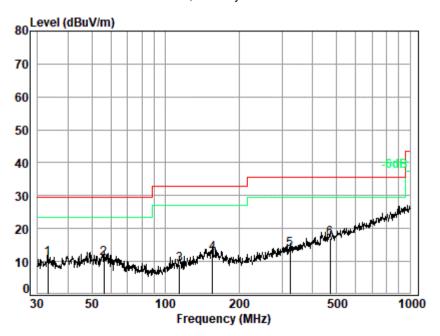


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Test Mode: 07; Polarity: Vertical



Test Site: 10M-chamber VERTICAL

Job No. : 03641AT

Test mode: 07 Remark1 : Remark2:

Marker	Freq. MHz	AntFac dB/m	CabLos dB	Reading dBuV	Measured dBuV/m	Limit dBuV/m	Over dBuV	Remark
1	33.095	16.29	0.66	26.59	11.08	29.50	-18.42	QP
2	56.001	17.31	0.64	25.46	11.01	29.50	-18.49	QP
3	114.114	14.47	0.88	26.30	9.25	33.00	-23.75	QP
4	155.910	17.78	1.03	26.20	12.61	33.00	-20.39	QP
5	323.320	18.18	1.48	26.28	13.54	35.60	-22.06	QP
6	470.523	21.27	1.78	26.43	17.01	35.60	-18.59	QP



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

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

Note:

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

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

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
39.854	11.63	3.82	12.72	22.09	40.00	-17.91	Н
56.395	10.85	3.49	11.62	21.31	40.00	-18.69	Н
145.351	10.67	3.42	11.39	21.13	43.50	-22.37	Н
252.063	11.31	3.68	12.26	21.77	46.00	-24.23	Н
434.065	15.14	5.71	19.05	25.60	46.00	-20.40	Н
658.836	20.19	10.22	34.07	30.65	46.00	-15.35	Н
33.095	11.08	3.58	11.94	21.54	40.00	-18.46	V
56.001	11.01	3.55	11.84	21.47	40.00	-18.53	V
114.114	9.25	2.90	9.67	19.71	43.50	-23.79	V
155.910	12.61	4.27	14.24	23.07	43.50	-20.43	V
323.320	13.54	4.75	15.84	24.00	46.00	-22.00	V
470.523	17.01	7.09	23.63	27.47	46.00	-18.53	V



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7.8 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

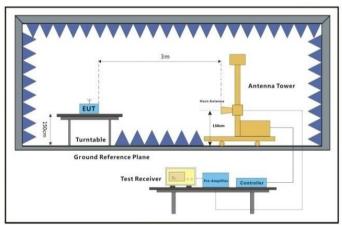
Operating Environment:

22.3 °C Temperature: Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

···- ······								
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode 1M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	03	TX mode2M/Bit(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	06	TX mode1M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Final test	07	TX mode2M/Bit(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation						

7.8.3 Test Setup Diagram



Above 1GHz



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7.8.4 Measurement Procedure and Data

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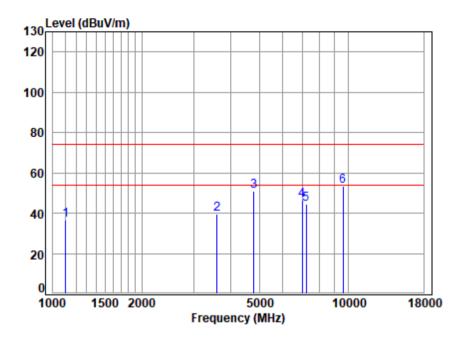


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2402 TX RSE

: BLE 1M Note

		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	1106.46	3.41	23.73	38.32	47.97	36.79	74.00	-37.21	peak
2	3598.20	6.34	32.08	36.11	37.28	39.59	74.00	-34.41	peak
3	4804.00	7.31	34.32	35.52	44.80	50.91	74.00	-23.09	peak
4	6974.98	8.90	35.75	35.55	37.18	46.28	74.00	-27.72	peak
5	7206.00	9.18	35.70	35.79	35.60	44.69	74.00	-29.31	peak
6	9608.00	12.36	37.42	37.46	41.08	53.40	74.00	-20.60	peak



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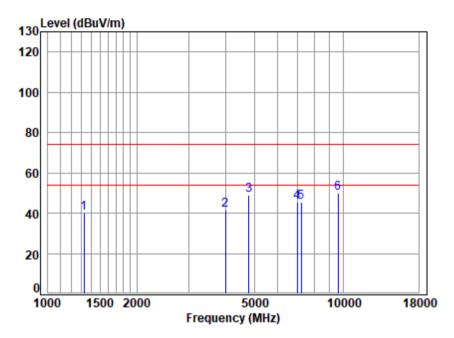


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2402 TX RSE

: BLE 1M Note

		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	1327.45	3.80	24.63	38.36	50.12	40.19	74.00	-33.81	peak	
2	3992.78	6.77	33.07	36.10	37.58	41.32	74.00	-32.68	peak	
3	4804.00	7.31	34.32	35.52	42.62	48.73	74.00	-25.27	peak	
4	6995.17	8.92	35.71	35.57	36.24	45.30	74.00	-28.70	peak	
5	7206.00	9.18	35.70	35.79	36.39	45.48	74.00	-28.52	peak	
6	9608.00	12.36	37.42	37.46	37.56	49.88	74.00	-24.12	peak	



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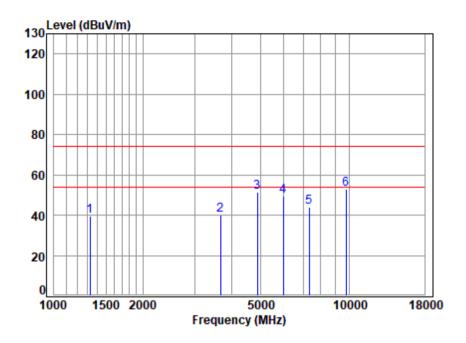


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

Mode : 2440 TX RSE

: BLE 1M Note

		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	1327.45	3.80	24.63	38.36	49.33	39.40	74.00	-34.60	peak
2	3661.15	6.41	32.77	36.11	37.07	40.14	74.00	-33.86	peak
3	4880.00	7.36	34.62	35.47	44.89	51.40	74.00	-22.60	peak
4	5984.31	8.16	34.84	34.91	41.54	49.63	74.00	-24.37	peak
5	7320.00	9.32	35.70	35.90	35.08	44.20	74.00	-29.80	peak
6	9760.00	12.47	37.38	37.43	40.60	53.02	74.00	-20.98	peak



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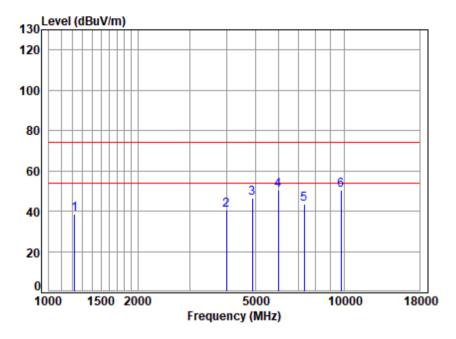


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2440 TX RSE

: BLE 1M Note

		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	1224.25	3.62	24.74	38.34	48.55	38.57	74.00	-35.43	peak
2	3992.78	6.77	33.07	36.10	36.76	40.50	74.00	-33.50	peak
3	4880.00	7.36	34.62	35.47	39.94	46.45	74.00	-27.55	peak
4	5984.31	8.16	34.84	34.91	42.43	50.52	74.00	-23.48	peak
5	7320.00	9.32	35.70	35.90	34.41	43.53	74.00	-30.47	peak
6	9760.00	12.47	37.38	37.43	37.95	50.37	74.00	-23.63	peak



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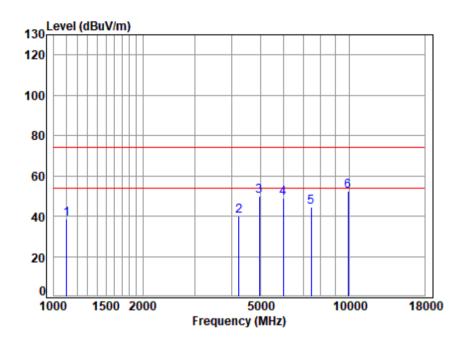


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2480 TX RSE

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dR/m	dB		dRuV/m	dBuV/m	——dB	
	1112	ub.	ub/iii	ub	abav	abav/iii	abav/III	ub	
1	1103.26	3.40	23.71	38.32	49.90	38.69	74.00	-35.31	peak
2	4230.40	6.94	33.80	35.92	35.27	40.09	74.00	-33.91	peak
3	4960.00	7.41	34.56	35.42	43.53	50.08	74.00	-23.92	peak
4	5984.31	8.16	34.84	34.91	40.85	48.94	74.00	-25.06	peak
5	7440.00	9.46	35.96	36.02	35.22	44.62	74.00	-29.38	peak
6	9920.00	12.58	37.30	37.39	40.15	52.64	74.00	-21.36	peak



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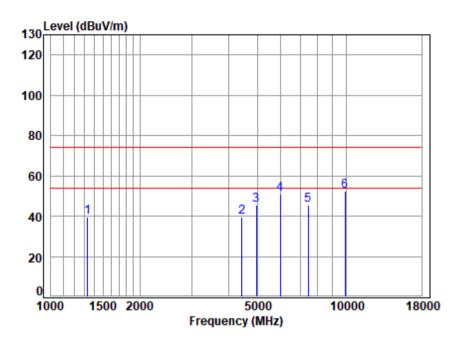


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2480 TX RSE

: BLE 1M Note

		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	1331.29	3.81	24.61	38.36	49.60	39.66	74.00	-34.34	peak
2	4430.63	7.08	34.43	35.77	33.93	39.67	74.00	-34.33	peak
3	4960.00	7.41	34.56	35.42	38.88	45.43	74.00	-28.57	peak
4	5984.31	8.16	34.84	34.91	42.80	50.89	74.00	-23.11	peak
5	7440.00	9.46	35.96	36.02	36.18	45.58	74.00	-28.42	peak
6	9920.00	12.58	37.30	37.39	39.82	52.31	74.00	-21.69	peak



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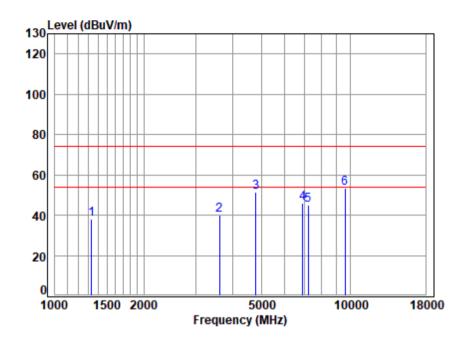


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2402 TX RSE

Note : BLE 2M

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						ID 1//	ID 1//		
	MHz	dB	aB/m	dB	abuv	abuv/m	abuv/m	dB	
1	1331.29	3.81	24.61	38.36	48.15	38.21	74.00	-35.79	peak
2	3608.62	6.35	32.20	36.11	37.55	39.99	74.00	-34.01	peak
3	4804.00	7.31	34.32	35.52	45.48	51.59	74.00	-22.41	peak
4	6914.76	8.86	35.66	35.52	36.98	45.98	74.00	-28.02	peak
5	7206.00	9.18	35.70	35.79	35.72	44.81	74.00	-29.19	peak
6	9608.00	12.36	37.42	37.46	41.00	53.32	74.00	-20.68	peak



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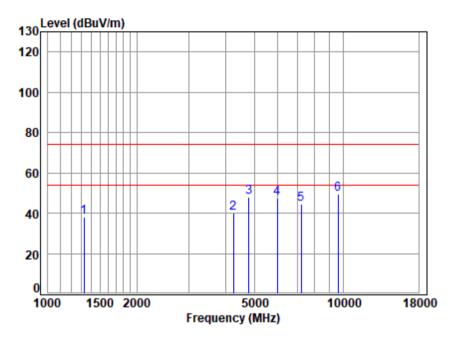


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Report No.: SZCR231100364103

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



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2402 TX RSE

Note : BLE 2M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1327.45	3.80	24.63	38.36	48.16	38.23	74.00	-35.77	peak
2	4254.92	6.96	33.82	35.90	35.18	40.06	74.00	-33.94	peak
3	4804.00	7.31	34.32	35.52	42.08	48.19	74.00	-25.81	peak
4	5984.31	8.16	34.84	34.91	39.48	47.57	74.00	-26.43	peak
5	7206.00	9.18	35.70	35.79	35.31	44.40	74.00	-29.60	peak
6	9608.00	12.36	37.42	37.46	36.98	49.30	74.00	-24.70	peak



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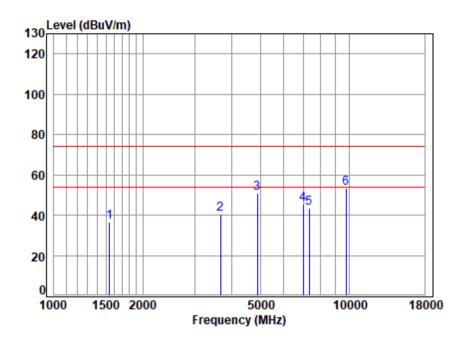


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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2440 TX RSE

: BLE 2M Note

		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	1542.73	4.12	26.97	38.39	44.05	36.75	74.00	-37.25	peak
2	3661.15	6.41	32.77	36.11	37.23	40.30	74.00	-33.70	peak
3	4880.00	7.36	34.62	35.47	44.63	51.14	74.00	-22.86	peak
4	6995.17	8.92	35.71	35.57	36.52	45.58	74.00	-28.42	peak
5	7320.00	9.32	35.70	35.90	34.54	43.66	74.00	-30.34	peak
6	9760.00	12.47	37.38	37.43	40.79	53.21	74.00	-20.79	peak



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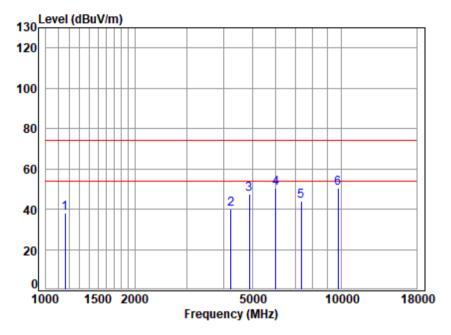


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Test Mode: 03; Polarity: Vertical; Modulation: GFSK; Channel: middle



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2440 TX RSE

: BLE 2M Note

		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	1162.18	3.51	24.02	38.33	48.71	37.91	74.00	-36.09	peak
2	4230.40	6.94	33.80	35.92	34.98	39.80	74.00	-34.20	peak
3	4880.00	7.36	34.62	35.47	41.18	47.69	74.00	-26.31	peak
4	6001.63	8.17	34.90	34.90	42.40	50.57	74.00	-23.43	peak
5	7320.00	9.32	35.70	35.90	34.87	43.99	74.00	-30.01	peak
6	9760.00	12.47	37.38	37.43	38.00	50.42	74.00	-23.58	peak



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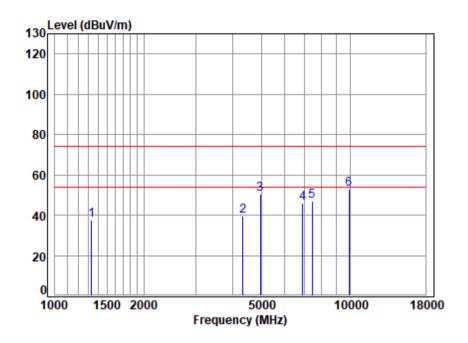


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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2480 TX RSE

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	1331.29	3.81	24.61	38.36	47.72	37.78	74.00	-36.22	peak
2	4341.89	7.02	34.34	35.84	33.92	39.44	74.00	-34.56	peak
3	4960.00	7.41	34.56	35.42	44.03	50.58	74.00	-23.42	peak
4	6914.76	8.86	35.66	35.52	36.75	45.75	74.00	-28.25	peak
5	7440.00	9.46	35.96	36.02	37.49	46.89	74.00	-27.11	peak
6	9920.00	12.58	37.30	37.39	40.51	53.00	74.00	-21.00	peak



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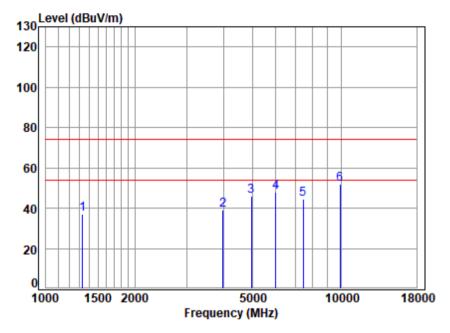


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2480 TX RSE

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	1331.29	3.81	24.61	38.36	46.99	37.05	74.00	-36.95	peak
2	3981.26	6.76	33.19	36.10	35.40	39.25	74.00	-34.75	peak
3	4960.00	7.41	34.56	35.42	39.38	45.93	74.00	-28.07	peak
4	6001.63	8.17	34.90	34.90	39.92	48.09	74.00	-25.91	peak
5	7440.00	9.46	35.96	36.02	35.25	44.65	74.00	-29.35	peak
6	9920.00	12.58	37.30	37.39	39.65	52.14	74.00	-21.86	peak



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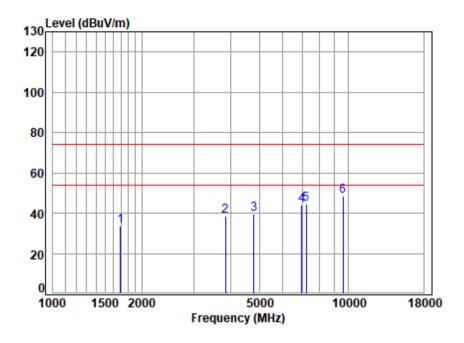


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2402 TX RSE

: BLE 1M Note

		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	
	4500.00	4 20	06.00	20.44	44 30	22.50	74.00		
1	1692.23	4.32	26.22	38.41	41.39	33.52	/4.00	-40.48	peak
2	3845.54	6.62	33.04	36.11	34.85	38.40	74.00	-35.60	peak
3	4804.00	7.31	34.32	35.52	33.20	39.31	74.00	-34.69	peak
4	6954.85	8.89	35.79	35.54	34.72	43.86	74.00	-30.14	peak
5	7206.00	9.18	35.70	35.79	35.34	44.43	74.00	-29.57	peak
6	9608.00	12.36	37.42	37.46	36.14	48.46	74.00	-25.54	peak



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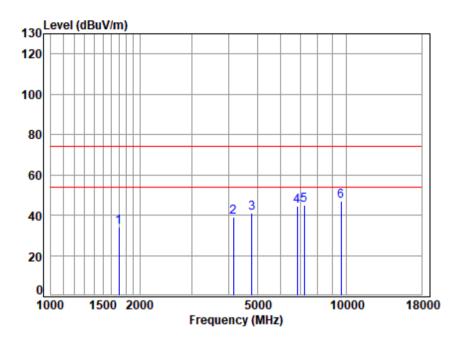


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2402 TX RSE

: BLE 1M Note

		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	1702.04	4.33	26.22	38.42	42.07	34.20	74.00	-39.80	peak
2	4157.66	6.89	33.80	35.98	34.20	38.91	74.00	-35.09	peak
3	4804.00	7.31	34.32	35.52	34.70	40.81	74.00	-33.19	peak
4	6835.28	8.80	35.44	35.47	35.55	44.32	74.00	-29.68	peak
5	7206.00	9.18	35.70	35.79	35.96	45.05	74.00	-28.95	peak
6	9608.00	12.36	37.42	37.46	34.55	46.87	74.00	-27.13	peak



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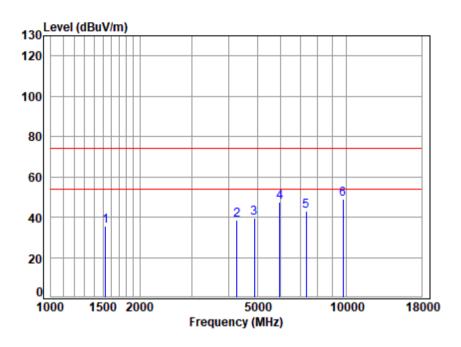


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT

Mode : 2440 TX RSE

: BLE 1M Note

		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	1529.41	4.10	26.92	38.39	43.05	35.68	74.00	-38.32	peak
2	4267.24	6.97	33.87	35.89	33.38	38.33	74.00	-35.67	peak
3	4880.00	7.36	34.62	35.47	32.80	39.31	74.00	-34.69	peak
4	5967.03	8.15	34.77	34.91	39.34	47.35	74.00	-26.65	peak
5	7320.00	9.32	35.70	35.90	33.81	42.93	74.00	-31.07	peak
6	9760.00	12.47	37.38	37.43	36.37	48.79	74.00	-25.21	peak



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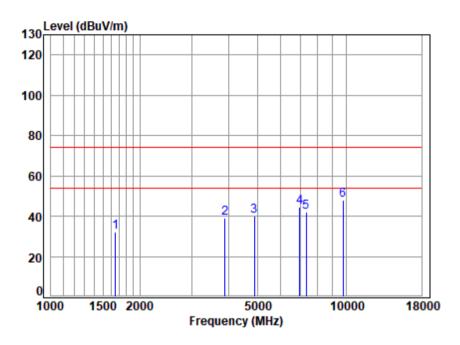


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2440 TX RSE

: BLE 1M Note

		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	1653.55	4.27	26.29	38.41	40.15	32.30	74.00	-41.70	peak
2	3890.26	6.66	33.66	36.10	34.64	38.86	74.00	-35.14	peak
3	4880.00	7.36	34.62	35.47	33.29	39.80	74.00	-34.20	peak
4	6954.85	8.89	35.79	35.54	35.37	44.51	74.00	-29.49	peak
5	7320.00	9.32	35.70	35.90	33.11	42.23	74.00	-31.77	peak
6	9760.00	12.47	37.38	37.43	35.47	47.89	74.00	-26.11	peak



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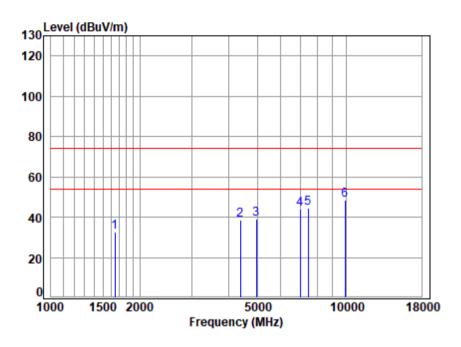


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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2480 TX RSE

: BLE 1M Note

		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	1648.78	4.26	26.31	38.41	40.35	32.51	74.00	-41.49	peak
2	4392.38	7.05	34.74	35.80	32.77	38.76	74.00	-35.24	peak
3	4960.00	7.41	34.56	35.42	32.72	39.27	74.00	-34.73	peak
4	6974.98	8.90	35.75	35.55	34.89	43.99	74.00	-30.01	peak
5	7440.00	9.46	35.96	36.02	34.92	44.32	74.00	-29.68	peak
6	9920.00	12.58	37.30	37.39	35.84	48.33	74.00	-25.67	peak



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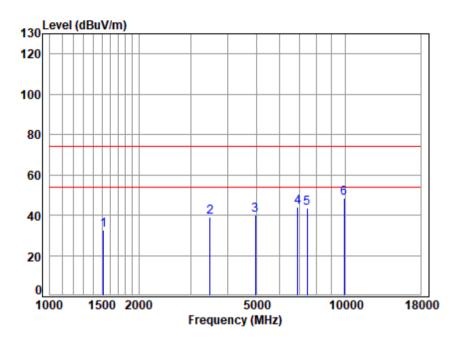


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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2480 TX RSE

: BLE 1M Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.60	4.09	26.88	38.39	40.28	32.86	74.00	-41.14	peak
2	3485.60	6.21	31.66	36.12	37.26	39.01	74.00	-34.99	peak
3	4960.00	7.41	34.56	35.42	33.53	40.08	74.00	-33.92	peak
4	6894.81	8.85	35.59	35.50	35.14	44.08	74.00	-29.92	peak
5	7440.00	9.46	35.96	36.02	33.86	43.26	74.00	-30.74	peak
6	9920.00	12.58	37.30	37.39	35.71	48.20	74.00	-25.80	peak



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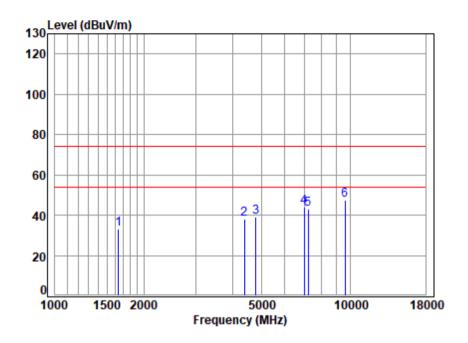


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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2402 TX RSE

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	
	4630.07	4 05	26.44	20.44	44 06	22.24	74.00	40.60	
1	1639.27	4.25	26.41	38.41	41.06	33.31	74.00	-40.69	peak
2	4379.70	7.04	34.64	35.81	32.29	38.16	74.00	-35.84	peak
3	4804.00	7.31	34.32	35.52	33.16	39.27	74.00	-34.73	peak
4	6974.98	8.90	35.75	35.55	35.05	44.15	74.00	-29.85	peak
5	7206.00	9.18	35.70	35.79	33.97	43.06	74.00	-30.94	peak
6	9608.00	12.36	37.42	37.46	34.96	47.28	74.00	-26.72	peak



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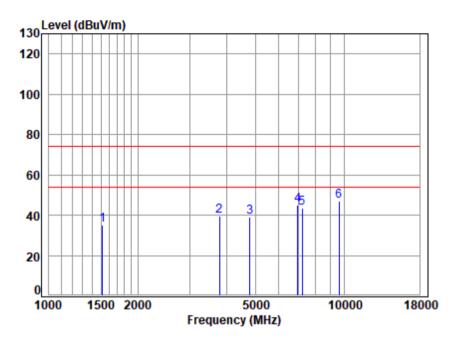


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2402 TX RSE

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	1516.21	4.08	26.87	38.39	42.54	35.10	74.00	-38.90	peak	
2	3790.36	6.56	32.50	36.11	36.72	39.67	74.00	-34.33	peak	
3	4804.00	7.31	34.32	35.52	33.13	39.24	74.00	-34.76	peak	
4	6954.85	8.89	35.79	35.54	35.73	44.87	74.00	-29.13	peak	
5	7206.00	9.18	35.70	35.79	34.58	43.67	74.00	-30.33	peak	
6	9608.00	12.36	37.42	37.46	34.63	46.95	74.00	-27.05	peak	



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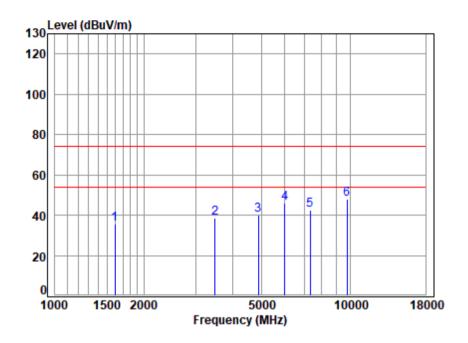


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Report No.: SZCR231100364103

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



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2440 TX RSE

: BLE 2M Note

		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	1597.18	4.20	26.81	38.40	43.09	35.70	74.00	-38.30	peak
2	3485.60	6.21	31.66	36.12	37.04	38.79	74.00	-35.21	peak
3	4880.00	7.36	34.62	35.47	33.70	40.21	74.00	-33.79	peak
4	6001.63	8.17	34.90	34.90	37.93	46.10	74.00	-27.90	peak
5	7320.00	9.32	35.70	35.90	33.43	42.55	74.00	-31.45	peak
6	9760.00	12.47	37.38	37.43	35.73	48.15	74.00	-25.85	peak



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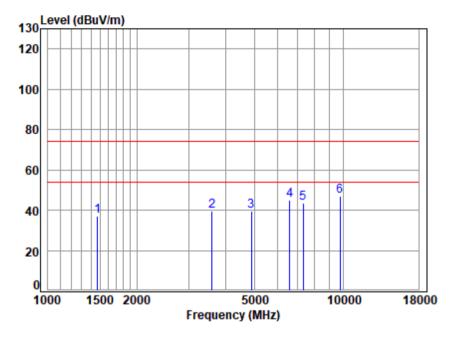


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2440 TX RSE

: BLE 2M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MU-	dB				dD:///m	dPul//m	dB	
	MHz	ub	ub/m	dB	abuv	ubuv/m	ubuv/m	ub	
1	1473.01	4.02	26.05	38.38	45.35	37.04	74.00	-36.96	peak
2	3598.20	6.34	32.08	36.11	37.27	39.58	74.00	-34.42	peak
3	4880.00	7.36	34.62	35.47	32.82	39.33	74.00	-34.67	peak
4	6583.21	8.62	35.37	35.30	36.20	44.89	74.00	-29.11	peak
5	7320.00	9.32	35.70	35.90	34.14	43.26	74.00	-30.74	peak
6	9760.00	12.47	37.38	37.43	34.61	47.03	74.00	-26.97	peak



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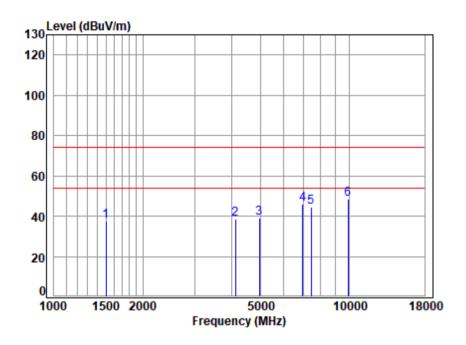


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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 03641AT Mode : 2480 TX RSE

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	1498.78	4.06	26.77	38.39	44.92	37.36	74.00	-36.64	peak
2	4121.77	6.87	33.35	36.00	34.33	38.55	74.00	-35.45	peak
3	4960.00	7.41	34.56	35.42	32.57	39.12	74.00	-34.88	peak
4	6954.85	8.89	35.79	35.54	36.72	45.86	74.00	-28.14	peak
5	7440.00	9.46	35.96	36.02	35.15	44.55	74.00	-29.45	peak
6	9920.00	12.58	37.30	37.39	36.02	48.51	74.00	-25.49	peak



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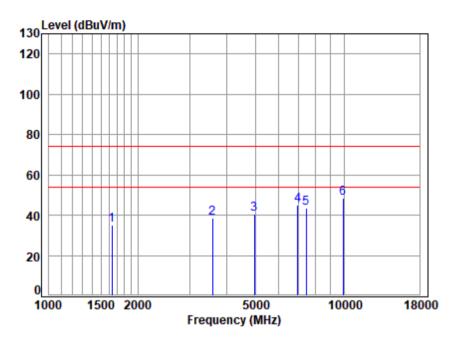


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03641AT Mode : 2480 TX RSE

: BLE 2M

Note

Ant Preamp Limit 0ver Cable Read Loss Factor Factor Level Level Line Limit Remark Freq

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1634.54	4.25	26.45	38.41	42.95	35.24	74.00	-38.76	peak	
2									•	
3	4960.00	7.41	34.56	35.42	34.01	40.56	74.00	-33.44	peak	
4	6954.85	8.89	35.79	35.54	35.61	44.75	74.00	-29.25	peak	
5	7440.00	9.46	35.96	36.02	34.01	43.41	74.00	-30.59	peak	
6	9920.00	12.58	37.30	37.39	36.05	48.54	74.00	-25.46	peak	



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2311003641AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2311003641AT



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10 Appendix

For Right earbud:

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	0.409	0.625	65.44	1.84	0.00			
1M	SISO	2440	0.410	0.625	65.60	1.83	0.00			
		2480	0.410	0.625	65.60	1.83	0.00			
		2402	0.226	0.625	36.16	4.42	0.00			
2M	SISO	2440	0.225	0.625	36.00	4.44	0.00			
		2480	0.226	0.625	36.16	4.42	0.02			



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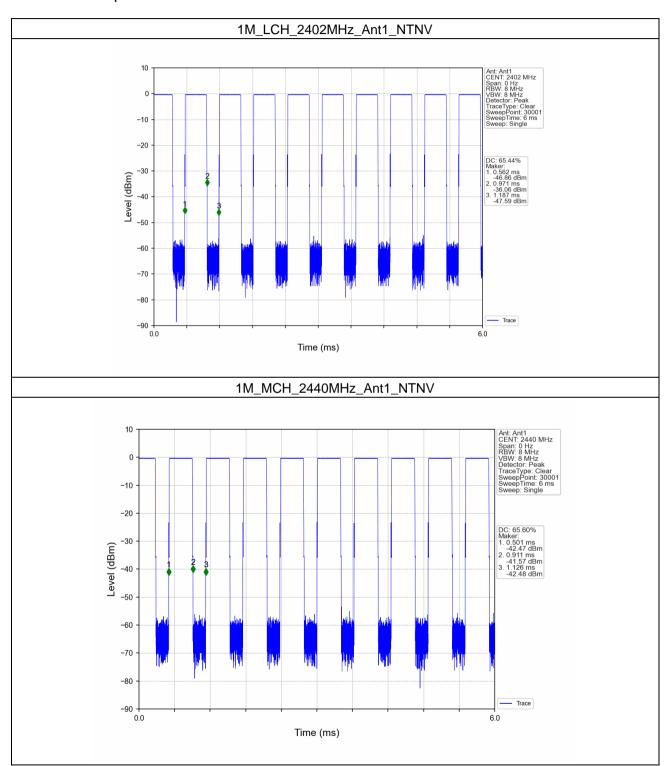


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1.1.2 Test Graph





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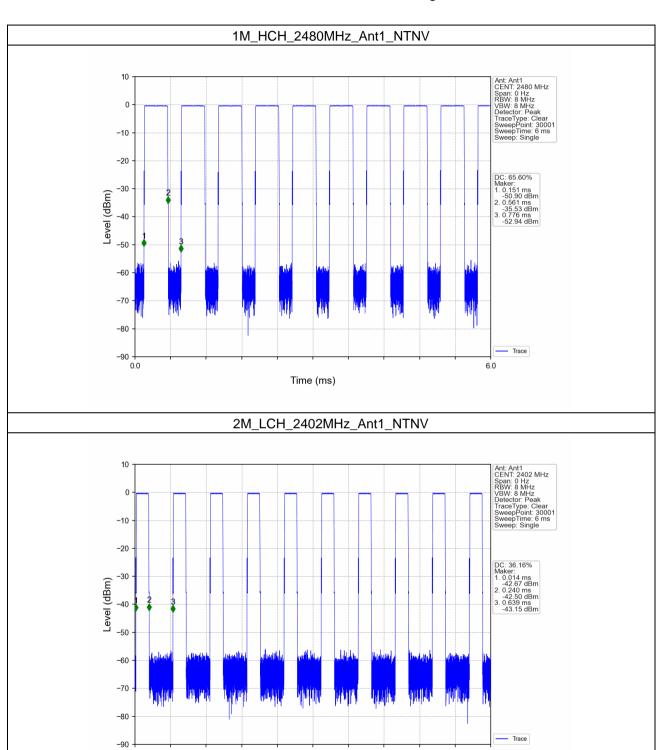
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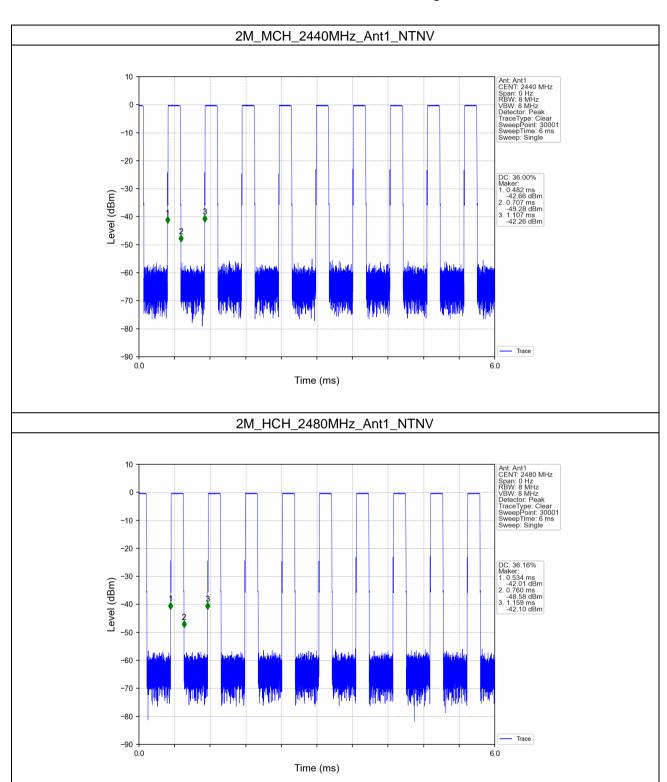
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	ANIT	99% Occupied E	Vardiat		
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict	
		2402	1	1.046	/	Pass	
1M	SISO	2440	1	1.044	/	Pass	
		2480	1	1.042	/	Pass	
		2402	1	2.071	/	Pass	
2M	SISO	2440	1	2.069	/	Pass	
		2480	1	2.069	/	Pass	



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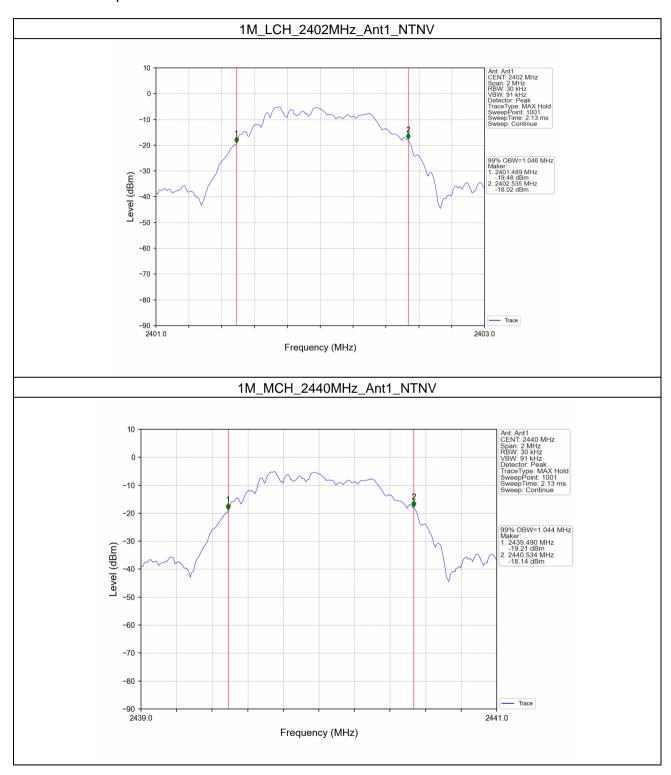


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2.1.2 Test Graph





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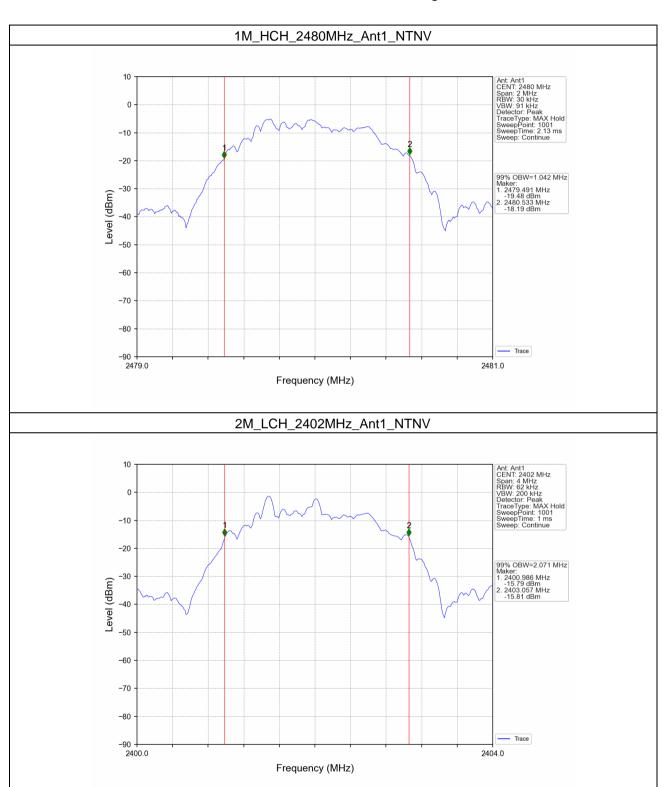
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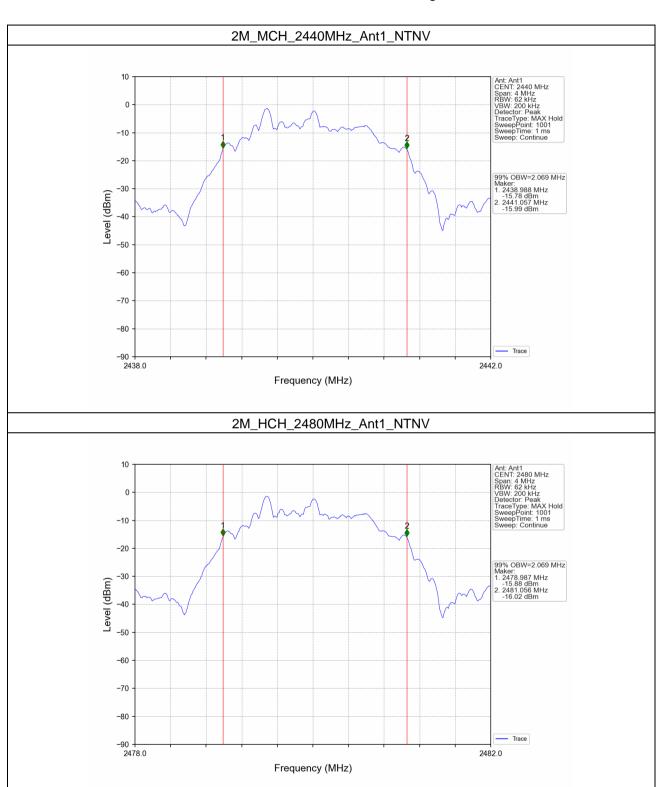
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANIT	6dB Bandv	\/a=d:at		
Mode	Type	(MHz)	ANT	Result	Limit	Verdict	
		2402	1	0.713	>=0.5	Pass	
1M	SISO	2440	1	0.718	>=0.5	Pass	
		2480	1	0.706	>=0.5	Pass	
	SISO	2402	1	1.213	>=0.5	Pass	
2M		2440	1	1.212	>=0.5	Pass	
		2480	1	1.210	>=0.5	Pass	



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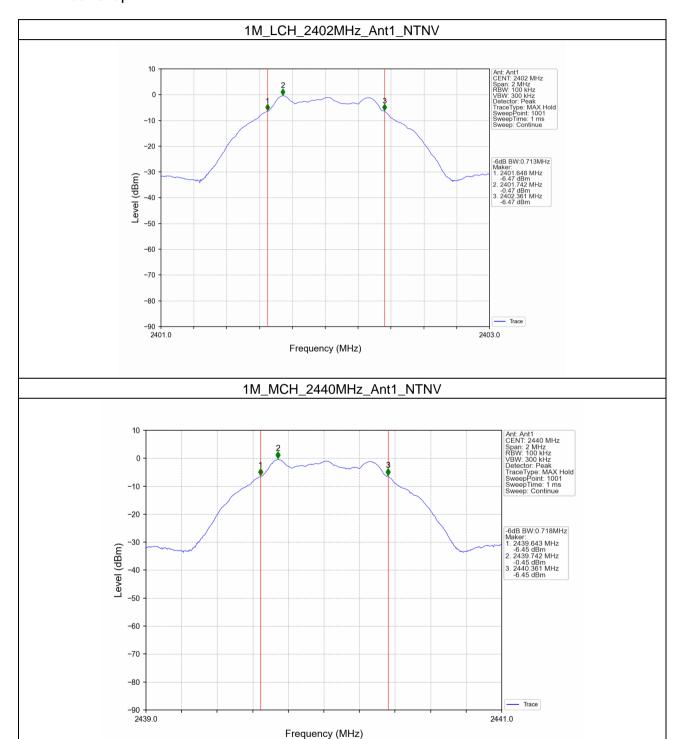


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2.2.2 Test Graph





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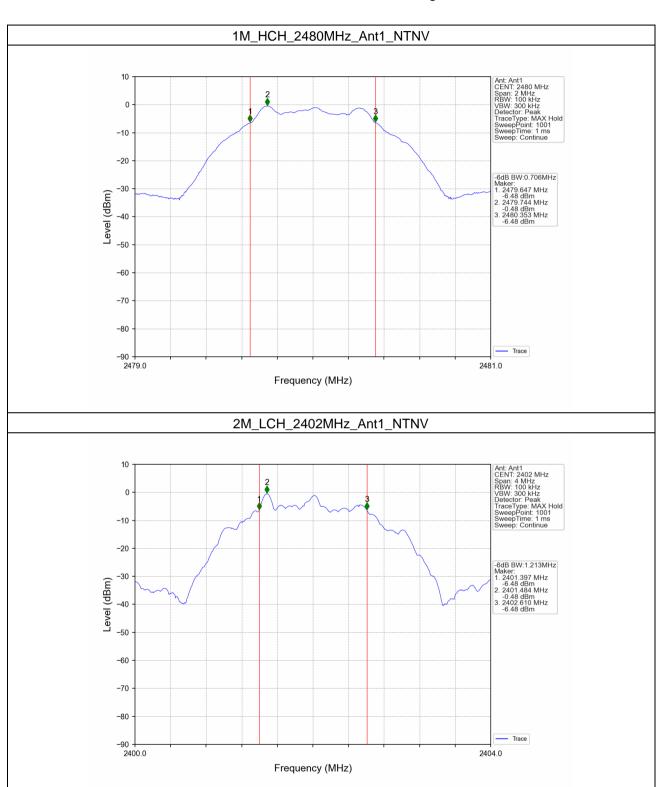
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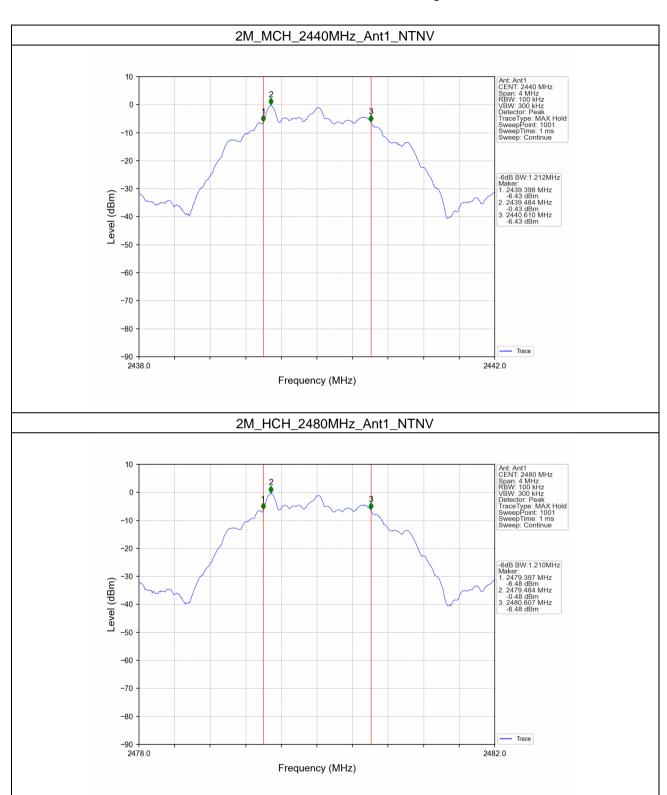
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mada	TX	Frequency	Maximum Peak Conduc	\/o.rdi.o.t				
Mode	Type	(MHz)	ANT1	Limit	Verdict			
		2402	-0.40	<=30	Pass			
1M	SISO	2440	-0.37	<=30	Pass			
		2480	-0.42	<=30	Pass			
		2402	-0.35	<=30	Pass			
2M	SISO	2440	-0.30	<=30	Pass			
		2480	-0.35	<=30	Pass			
Note1: Ante	Note1: Antenna Gain: Ant1: 1.23dBi;							



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	Maximum PSD (dBm/3kHz)			
	Туре	(MHz)	ANT1	Limit	Verdict		
1M		2402	-15.90	<=8	Pass		
	SISO	2440	-15.80	<=8	Pass		
		2480	-15.86	<=8	Pass		
2M		2402	-19.40	<=8	Pass		
	SISO	2440	-19.37	<=8	Pass		
		2480	-19.63	<=8	Pass		
Note1: Antenna Gain: Ant1: 1.23dBi;							



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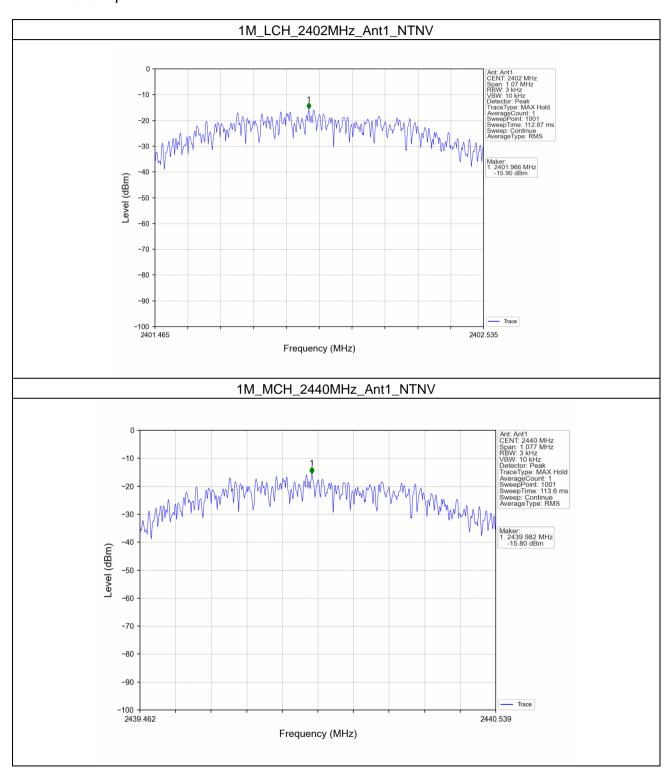


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4.1.2 Test Graph





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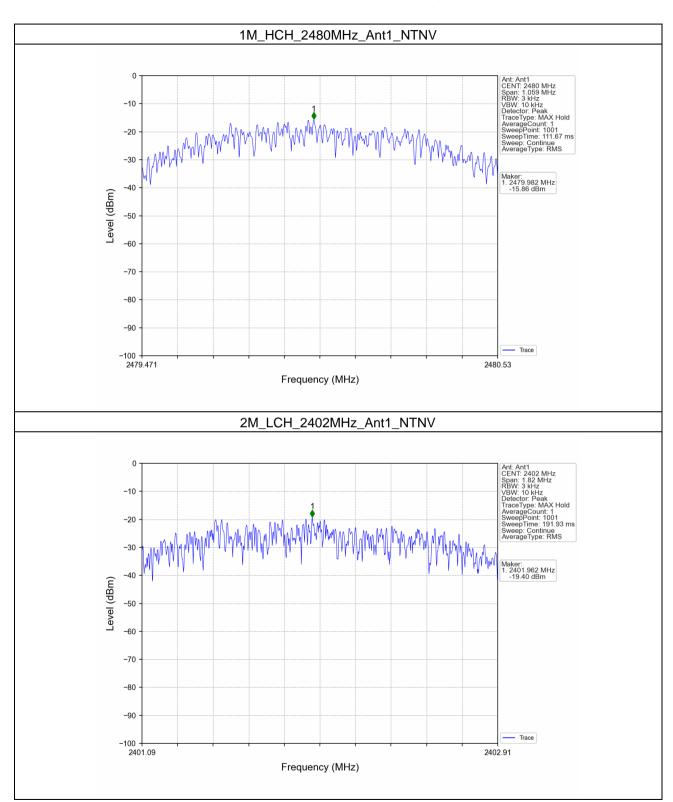
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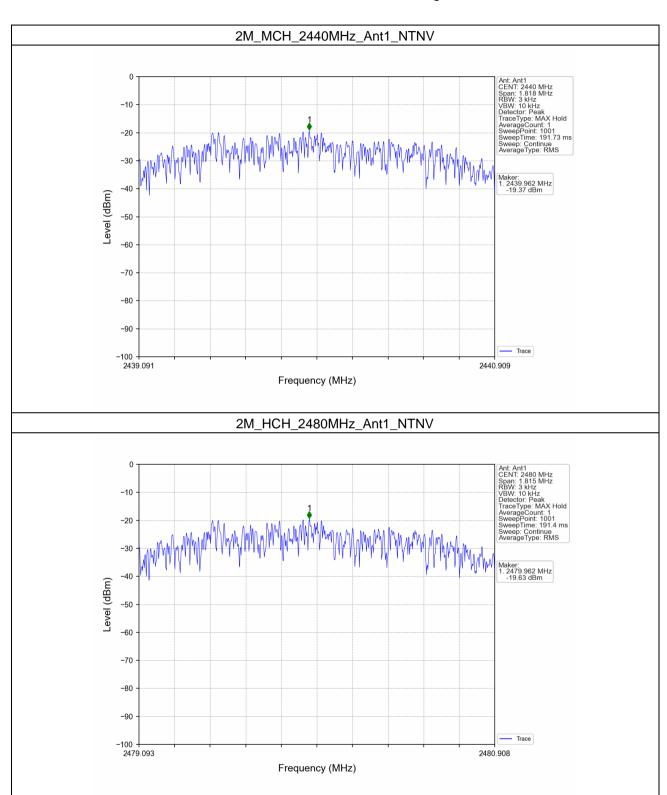
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	-0.48
1M	SISO	2440	1	-0.44
		2480	1	-0.50
	SISO	2402	1	-0.49
2M		2440	1	-0.43
		2480	1	-0.50

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



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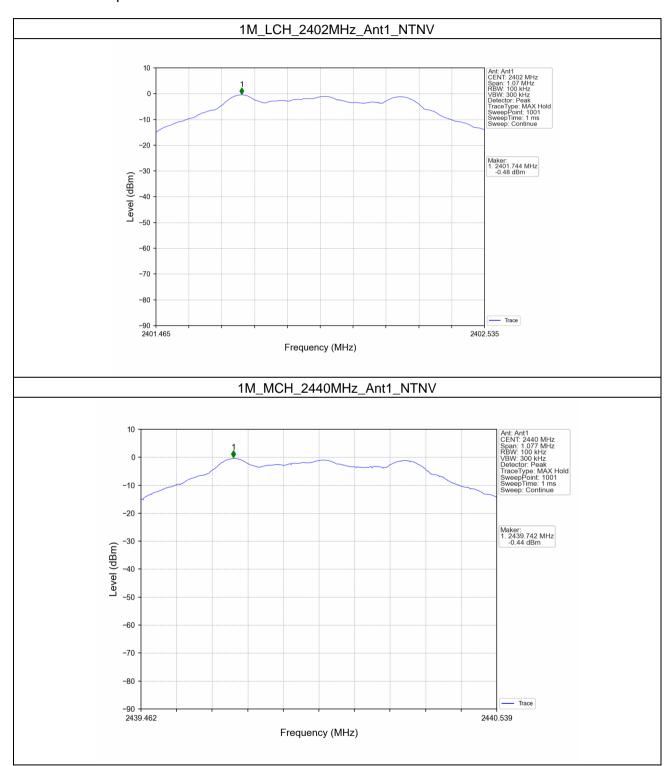


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5.1.2 Test Graph





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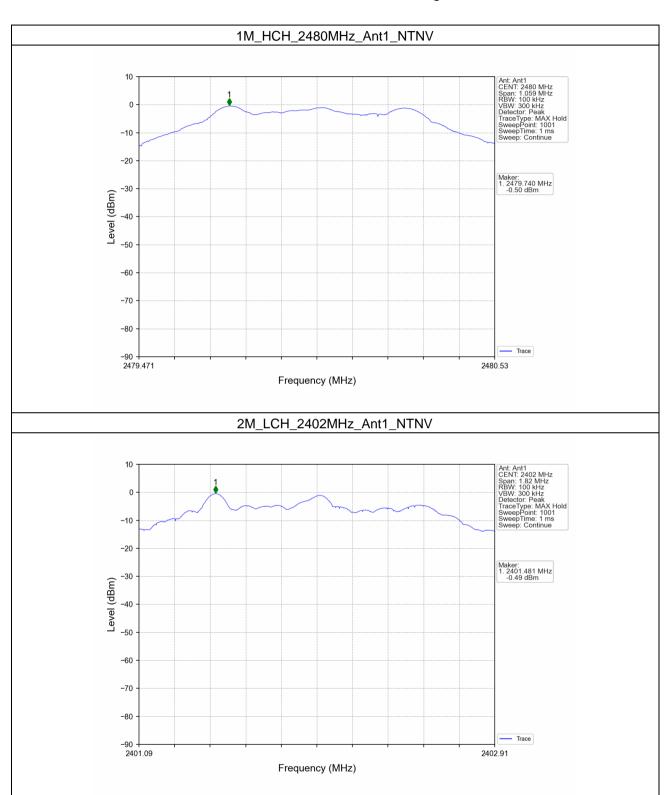
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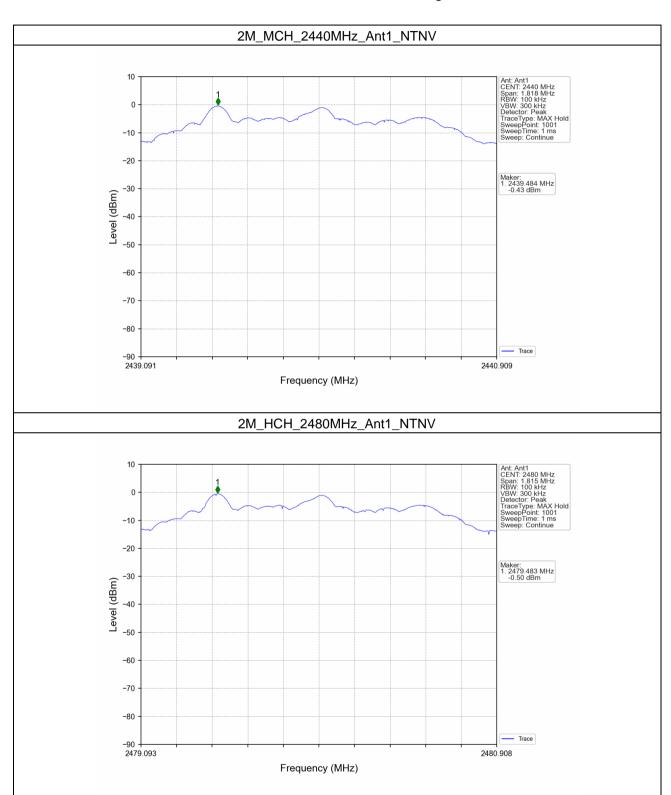
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	-0.44	-20.44	Pass
1M	SISO	2440	1	-0.44	-20.44	Pass
		2480	1	-0.44	-20.44	Pass
		2402	1	-0.43	-20.43	Pass
2M	SISO	2440	1	-0.43	-20.43	Pass
		2480	1	-0.43	-20.43	Pass

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



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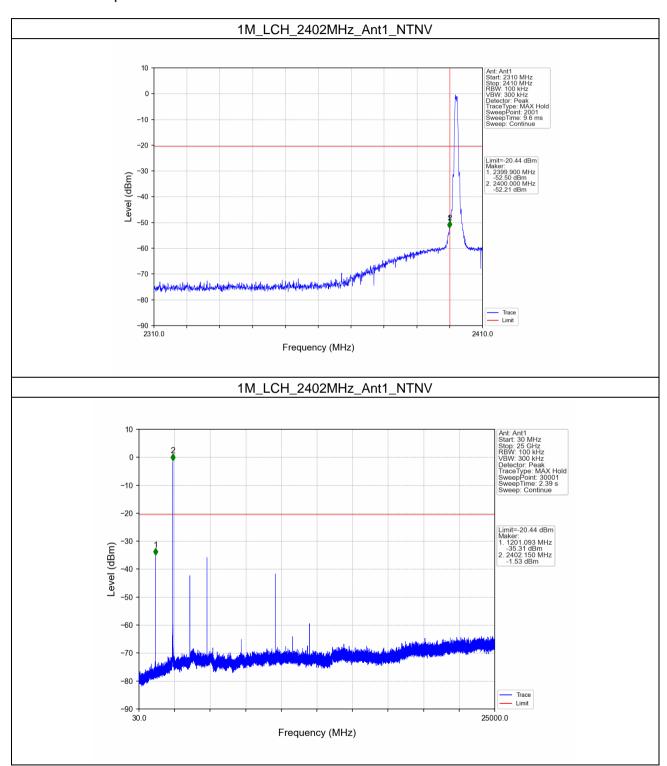


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5.2.2 Test Graph





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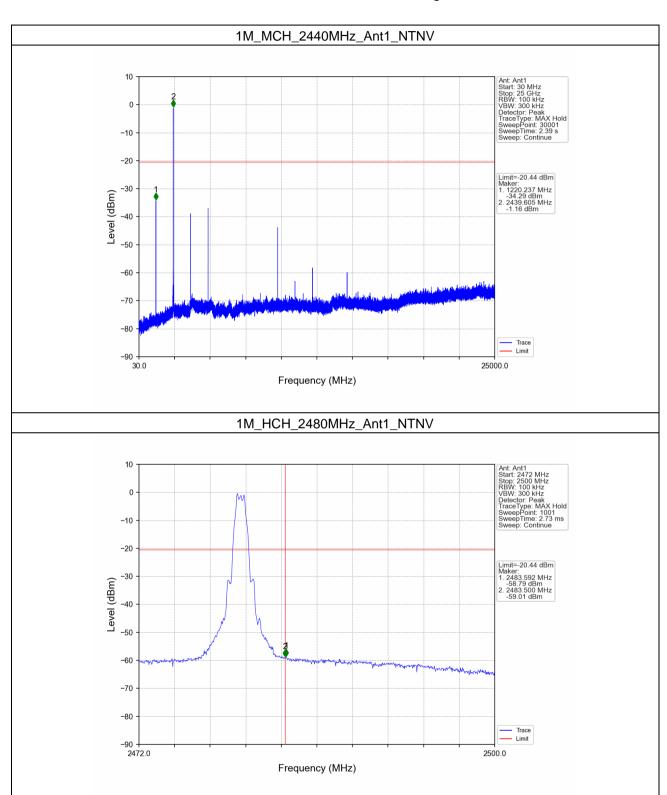
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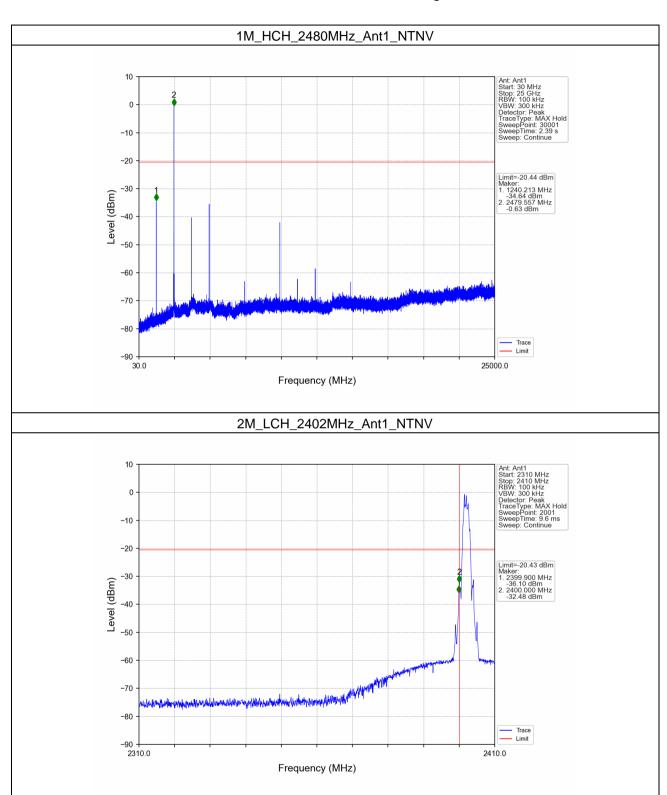
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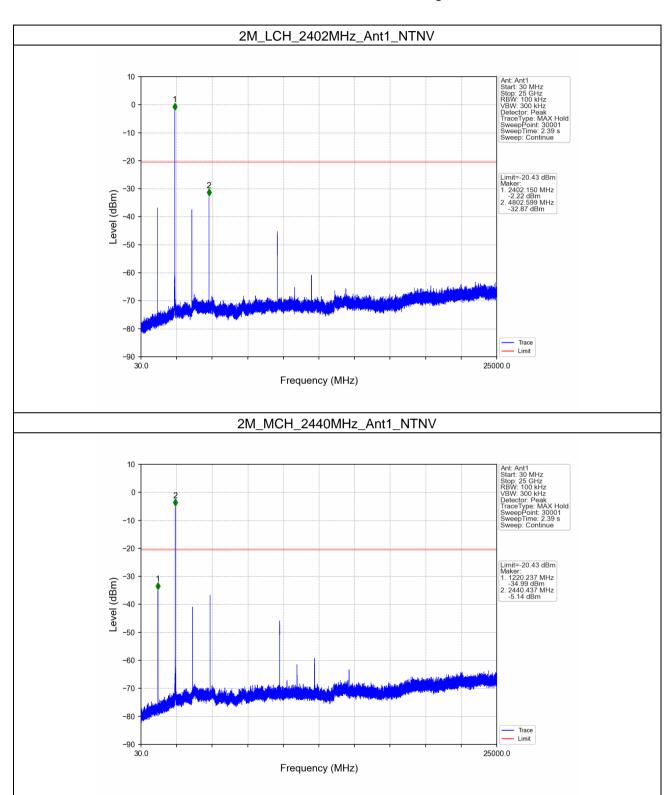
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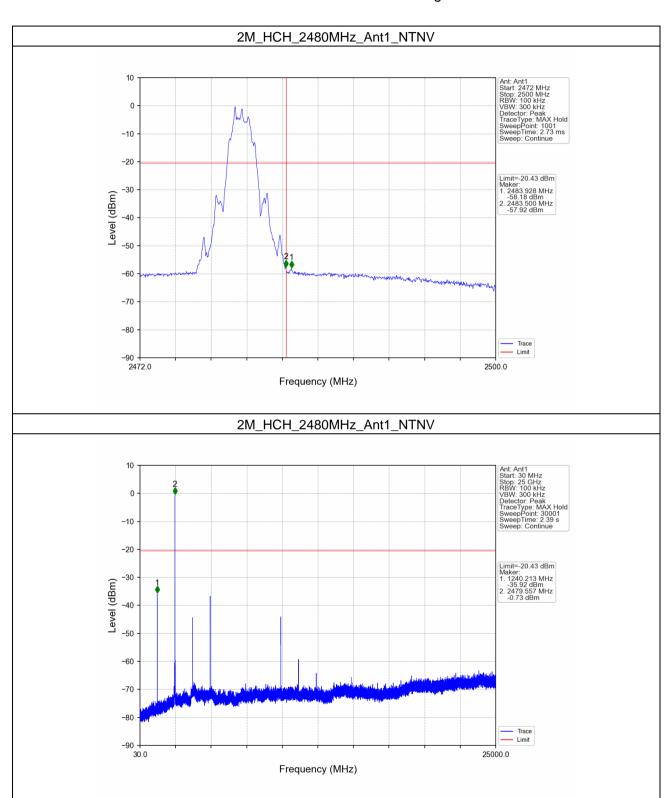
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For Left earbud:

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	0.409	0.625	65.44	1.84	0.00			
1M	SISO	2440	0.410	0.625	65.60	1.83	0.00			
		2480	0.410	0.625	65.60	1.83	0.03			
		2402	0.226	0.625	36.16	4.42	0.00			
2M	SISO	2440	0.226	0.625	36.16	4.42	0.00			
		2480	0.225	0.625	36.00	4.44	0.00			



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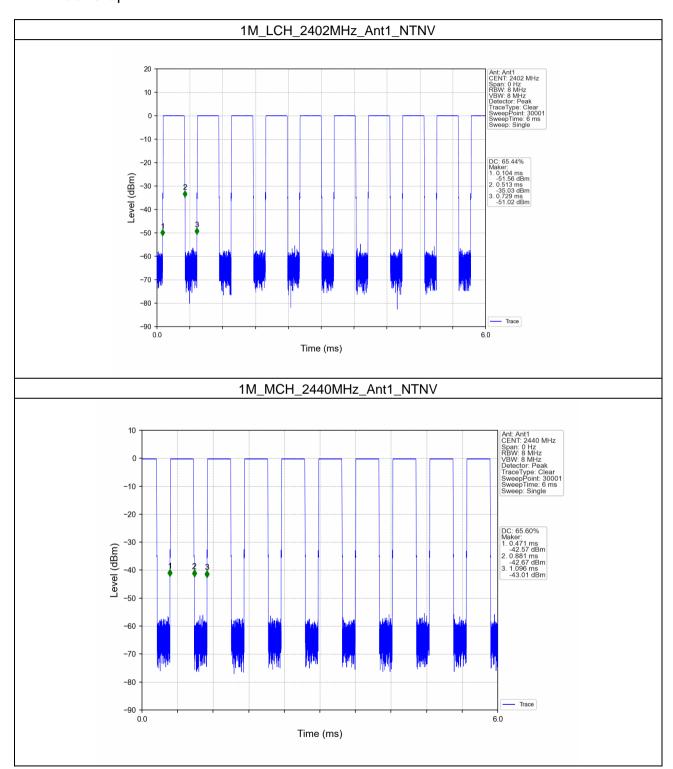


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1.1.2 Test Graph





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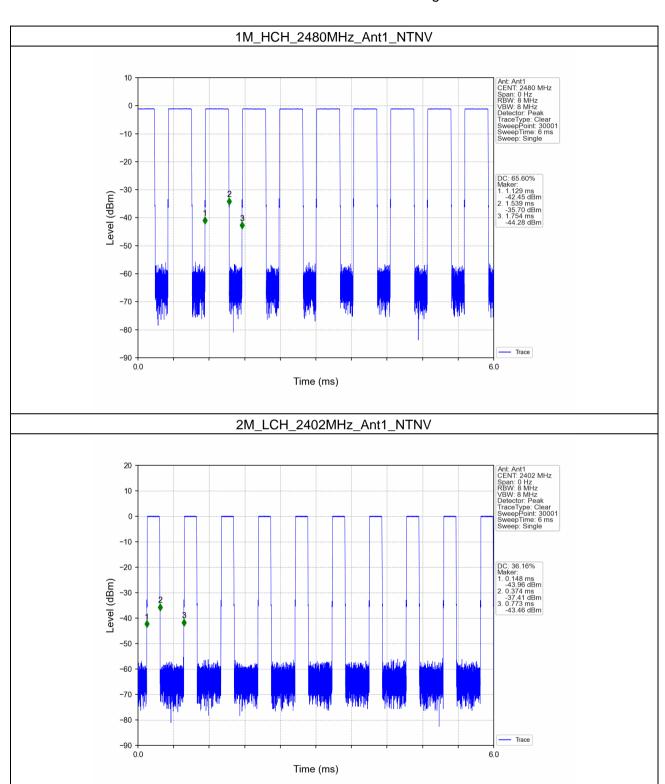
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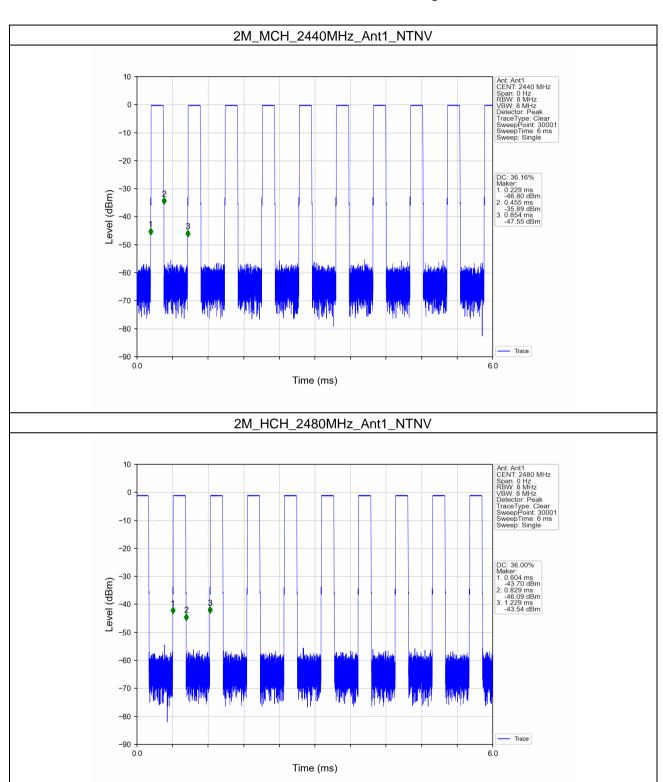
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	ANIT	99% Occupied E	Vardiat		
Mode	Type	(MHz)	ANT	Result	Limit	Verdict	
		2402	1	1.045	/	Pass	
1M	SISO	2440	1	1.045	/	Pass	
		2480	1	1.043	/	Pass	
		2402	1	2.070	/	Pass	
2M	SISO	2440	1	2.070	/	Pass	
		2480	1	2.068	/	Pass	



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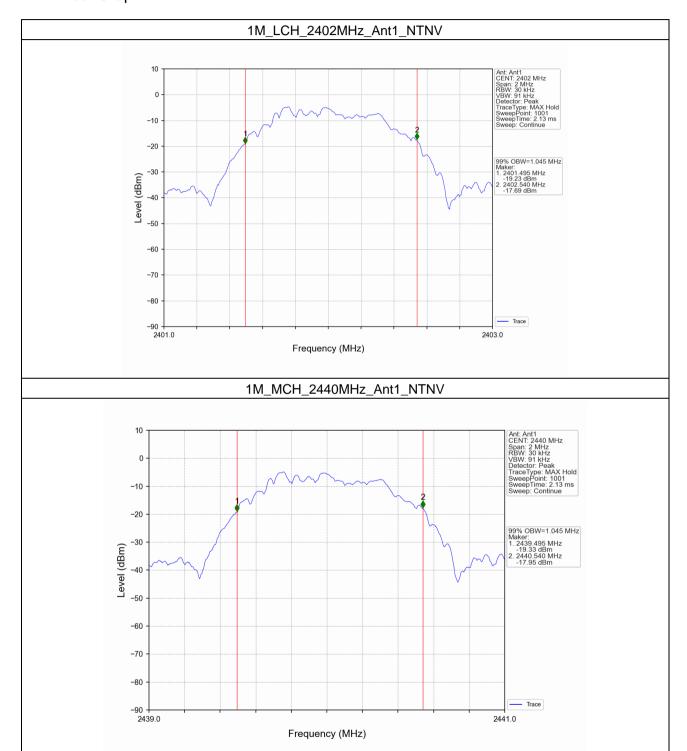


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2.1.2 Test Graph





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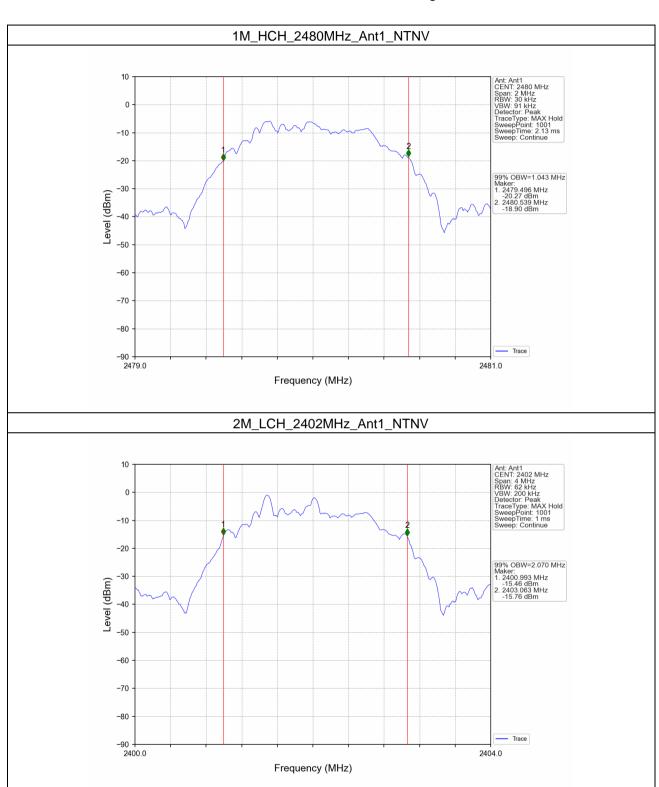
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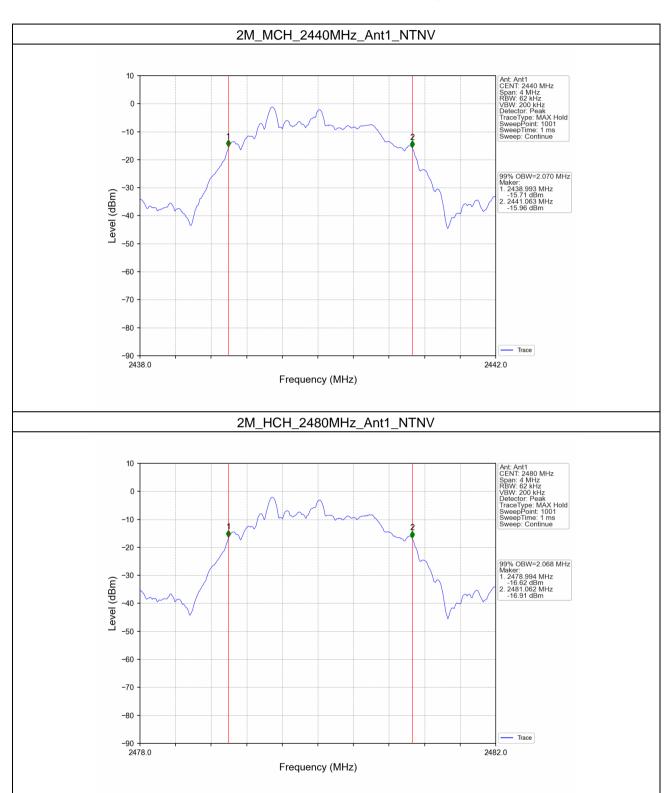
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Mandiat
				Result	Limit	Verdict
1M	SISO	2402	1	0.711	>=0.5	Pass
		2440	1	0.716	>=0.5	Pass
		2480	1	0.699	>=0.5	Pass
2M	SISO	2402	1	1.214	>=0.5	Pass
		2440	1	1.261	>=0.5	Pass
		2480	1	1.256	>=0.5	Pass



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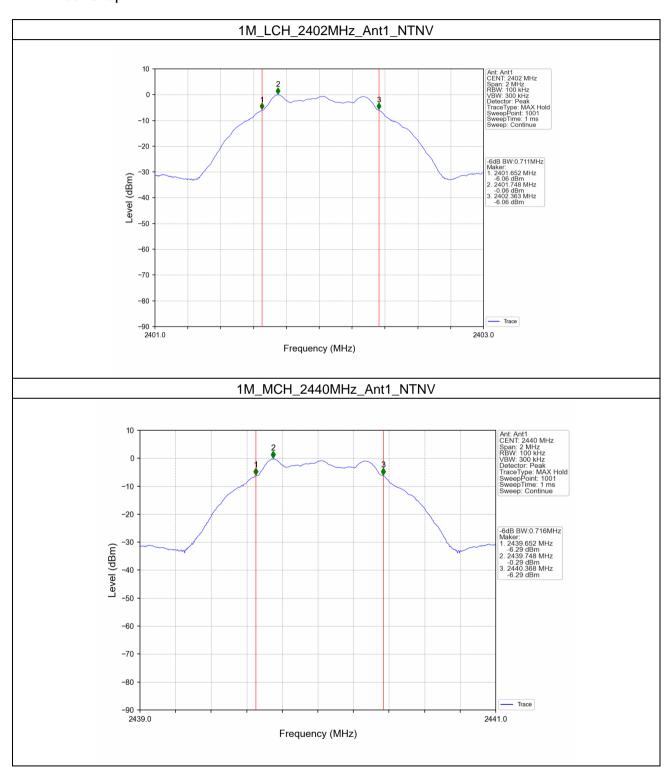


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2.2.2 Test Graph





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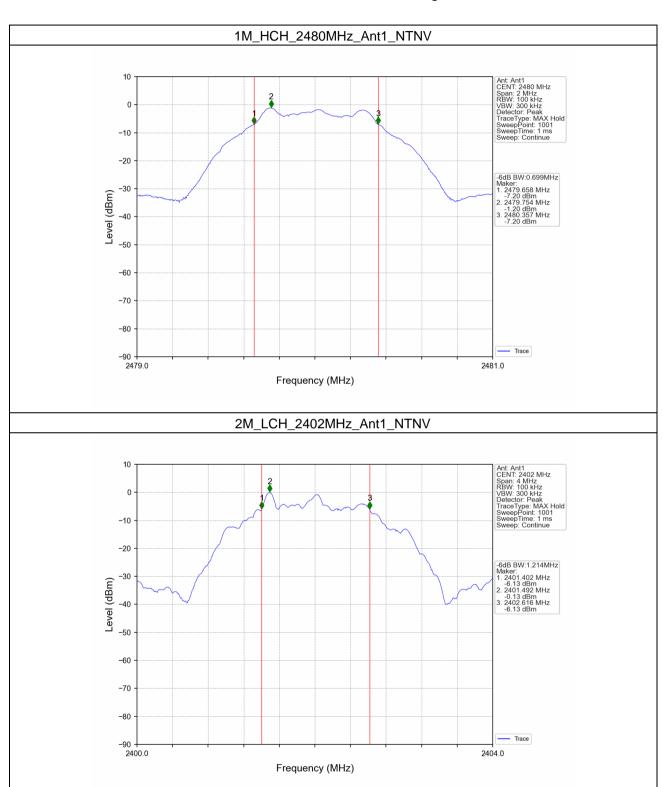
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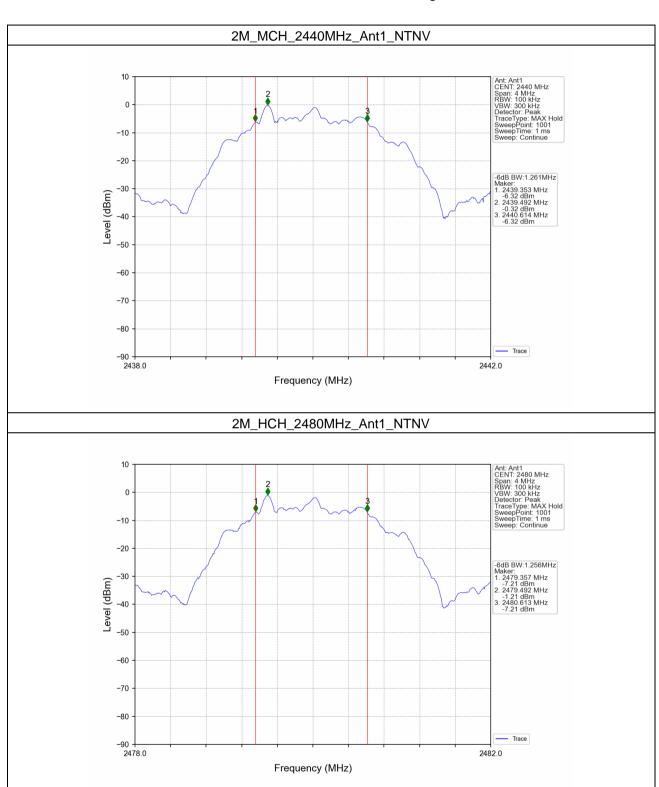
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conduc	Mandiat	
			ANT1	Limit	Verdict
1M	SISO	2402	0.00	<=30	Pass
		2440	-0.21	<=30	Pass
		2480	-1.12	<=30	Pass
2M		2402	0.03	<=30	Pass
	SISO	2440	-0.17	<=30	Pass
		2480	-1.08	<=30	Pass
Note1: Antenna Gain: Ant1: 0.28dBi;					



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PS	\/a = d; a t		
			ANT1	Limit	Verdict	
1M	SISO	2402	-15.45	<=8	Pass	
		2440	-15.69	<=8	Pass	
		2480	-16.59	<=8	Pass	
2M		2402	-18.92	<=8	Pass	
	SISO	2440	-19.23	<=8	Pass	
		2480	-20.06	<=8	Pass	
Note1: Antenna Gain: Ant1: 0.28dBi;						





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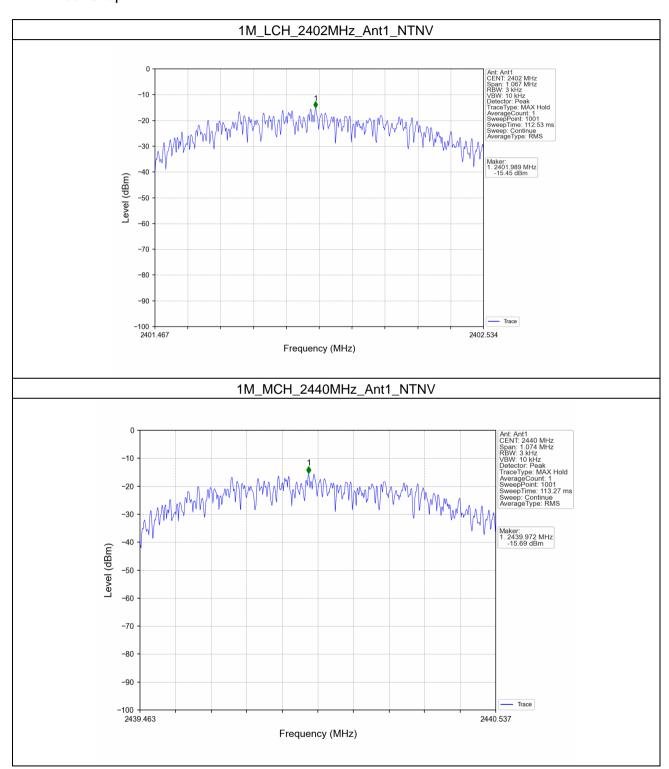


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4.1.2 Test Graph





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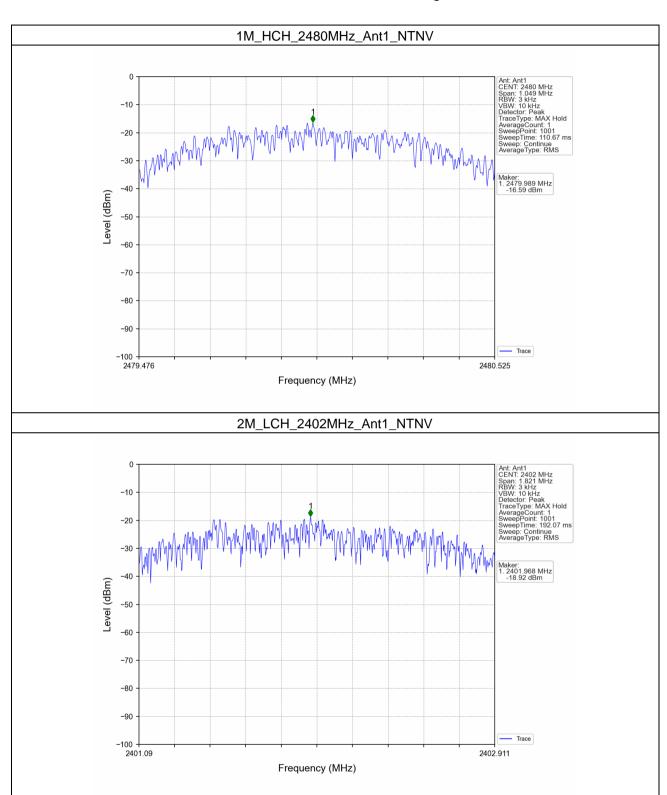
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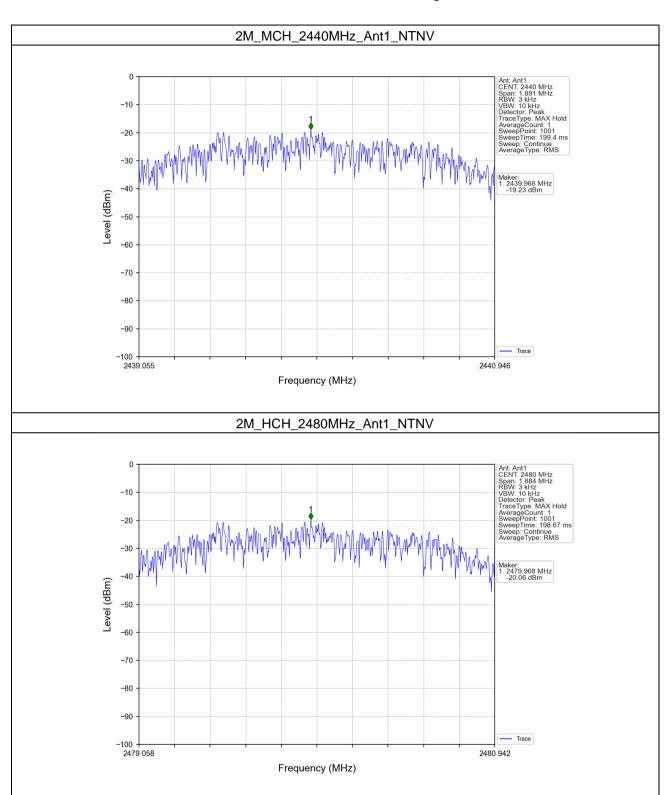
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M		2402	1	-0.06
	SISO	2440	1	-0.28
		2480	1	-1.19
2M	SISO	2402	1	-0.11
		2440	1	-0.32
		2480	1	-1.25

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



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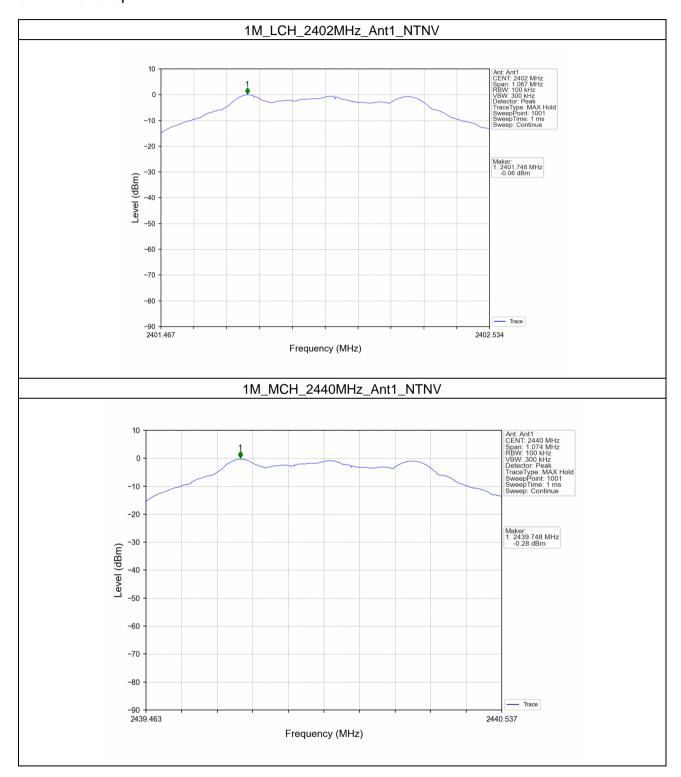


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5.1.2 Test Graph





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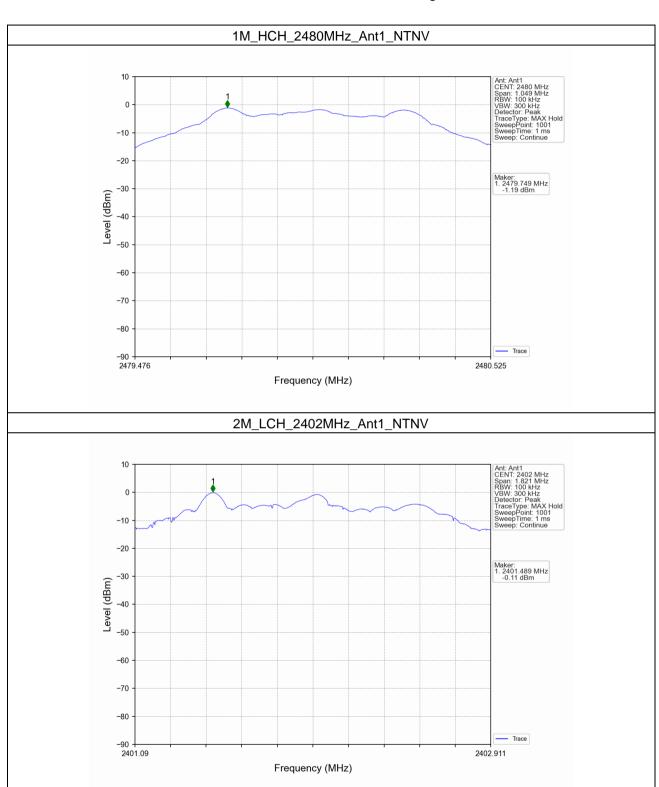
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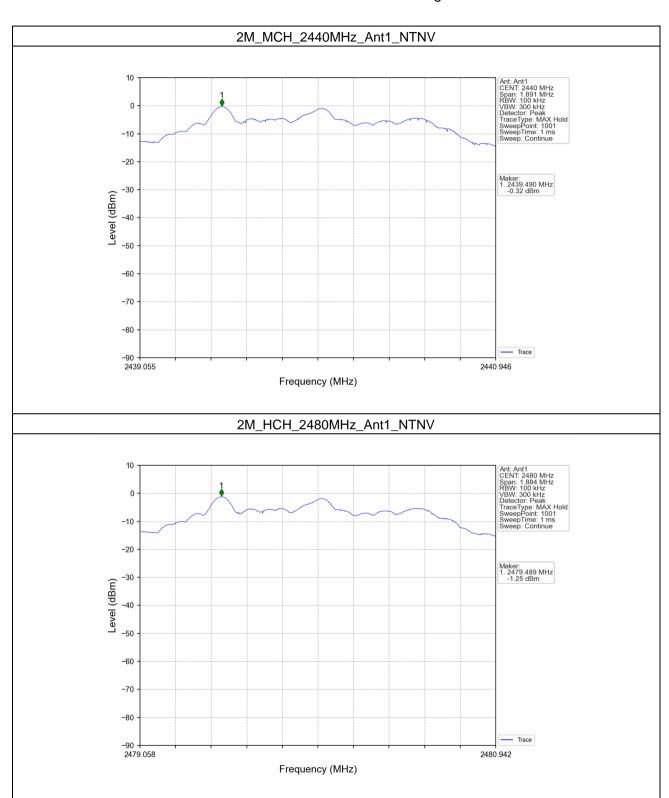
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-0.06	-20.06	Pass
		2440	1	-0.06	-20.06	Pass
		2480	1	-0.06	-20.06	Pass
2M	SISO	2402	1	-0.11	-20.11	Pass
		2440	1	-0.11	-20.11	Pass
		2480	1	-0.11	-20.11	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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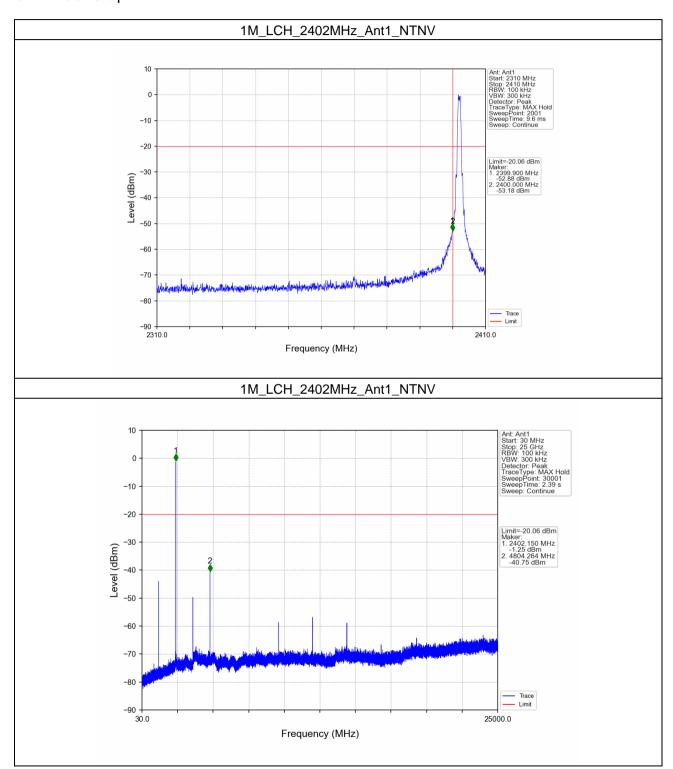


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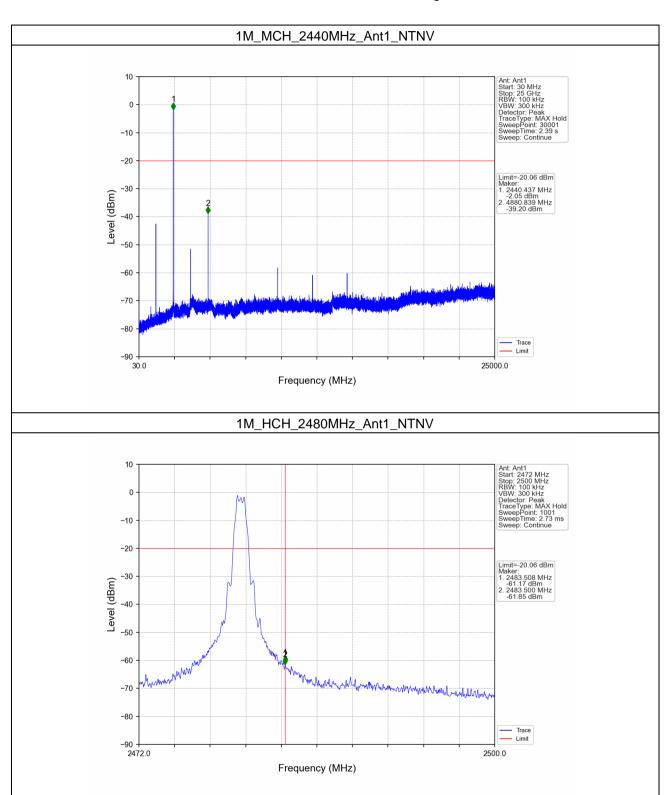
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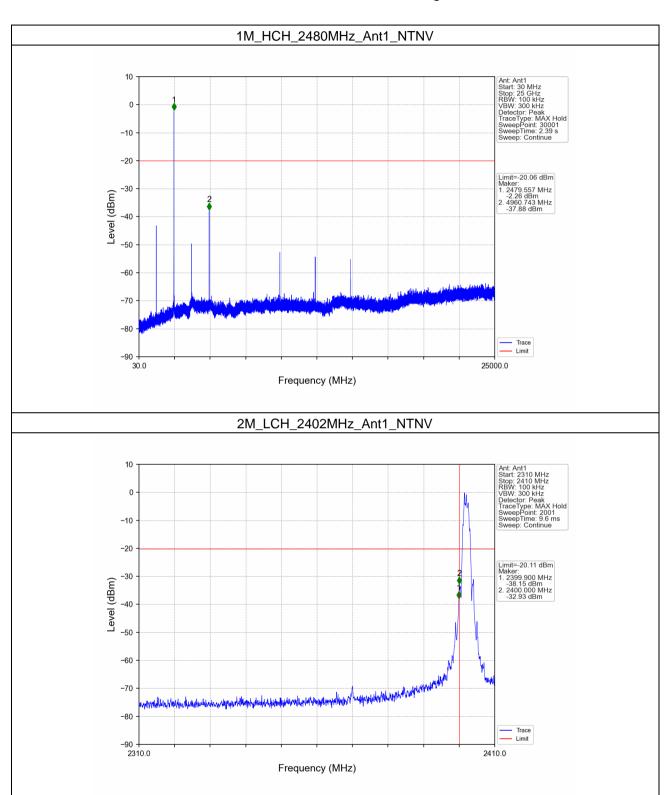
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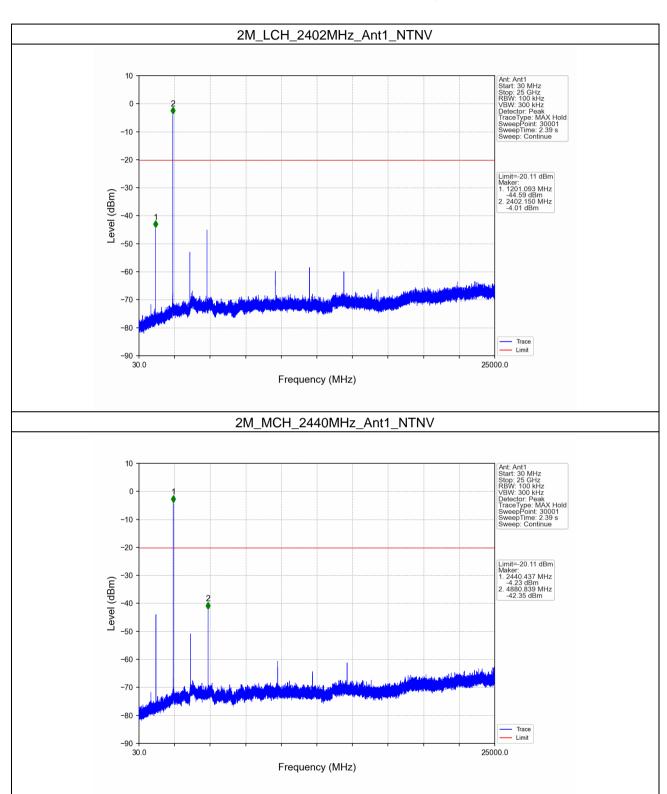
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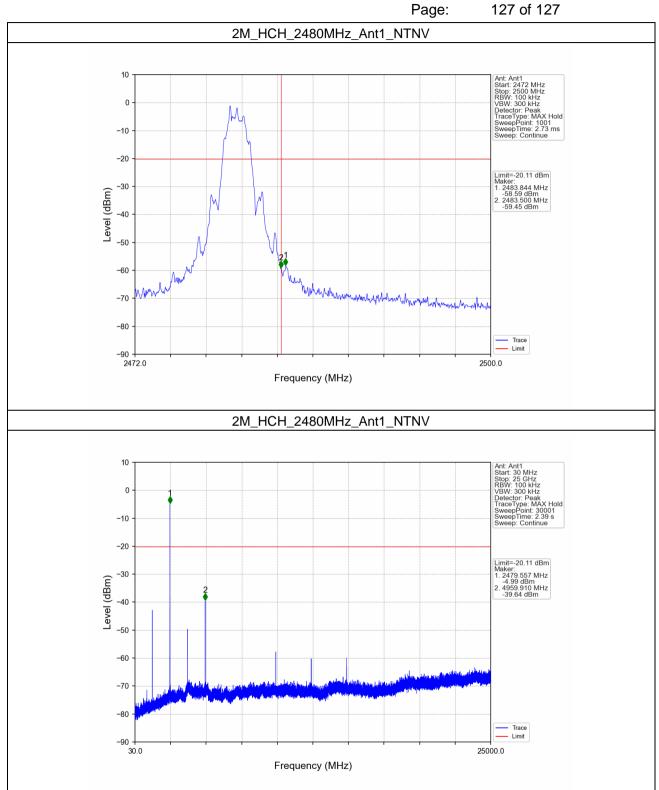
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