

Report No.: SZCR210602159903

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TEST REPORT

Application No.: SZCR2106021599AT **Applicant:** SKULLCANDY, INC.

Address of Applicant: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Manufacturer: SKULLCANDY, INC.

Address of Manufacturer: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Equipment Under Test (EUT):

EUT Name: Grind Fuel Model No.: S2GFW Trade Mark:

Skullcandy

FCC ID: Y22-S2GFW

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

Date of Receipt: 2021-06-17

Date of Test: 2021-06-23 to 2021-06-30

Date of Issue: 2021-07-05

Test Result: Pass*

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

Keny Xu EMC Laboratory Manager



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	Revision Record						
Version Chapter Date Modifier Rema							
01		2021-07-05		Original			

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



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Test Summary

Radio Spectrum Technical Requirement					
Item Standard Method Requirement Resul					
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass	

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
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€	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		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	

Emission Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	



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General Information

4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 55mAh (Charge by travel case)		
	Right earbuds: Li-Ion Polymer Battery 3.7V 55mAh (Charge by travel case)		
	travel case with backup battery: Li-Ion Polymer Battery 3.7V 650mAh (Charged by Type-c port or wireless charging pad)		
Cable(s):	Type-C cable: 12.2cm unshielded		
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V5.2 Dual mode		
Data Rate:	Only support 1M/bit		
Modulation Type:	GFSK		
Number of Channels:	40		
Channel Spacing:	2MHz		
Antenna Type:	FPC Antenna		
Antenna Gain:	left earbuds: 1.05dBi; Right earbuds: 0.87dBi		

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	REF. No.SEA05K03A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

Remark:

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

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



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

FCC –Designation Number: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25	

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Room SAEMC		SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable SGS		N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09



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Attenuator H	luber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07
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Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable SGS		N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable SGS		N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25	
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	
Horn Antenna Schwarzbeck		BBHA 9170	SEM003-15	2020-11-14	2023-11-13	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23	



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Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna are: left earbuds: 1.05dBi; Right earbuds: 0.87dBi.

Antenna location: Refer to internal photo.





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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 57.1 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

This root mode secondary				
Pre-scan / Final test	Mode Code	Description		
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation		
Final test	14	TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation		



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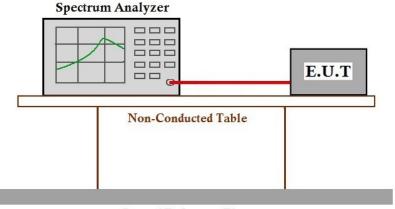
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7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

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

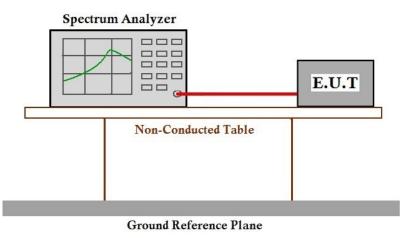
Operating Environment:

Temperature: 22.5 °C Humidity: 57.1 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	14	TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Power Spectrum Density

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

Limit:

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

7.3.1 E.U.T. Operation

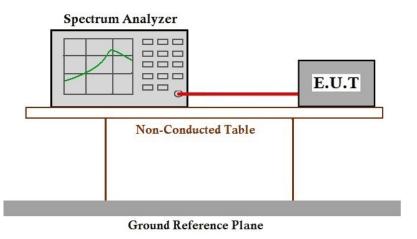
Operating Environment:

22.5 °C Temperature: Humidity: 57.1 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	14	TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Conducted Band Edges Measurement

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

Limit:

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

7.4.1 E.U.T. Operation

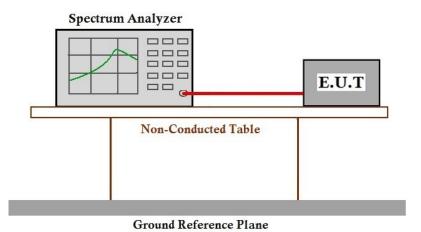
Operating Environment:

Temperature: 22.5 °C Humidity: 57.1 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	14	TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.4.3 Test Setup Diagram





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7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

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

Limit:

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

7.5.1 E.U.T. Operation

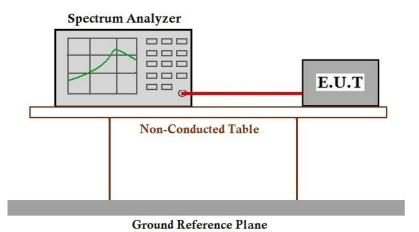
Operating Environment:

Temperature: 22.5 °C Humidity: 57.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation								
Final test	14	TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation								

7.5.3 Test Setup Diagram





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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 30			
0.490-1.705	24000/F(kHz)				
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: 23.6 °C Humidity: 53.6 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description									
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation									
Pre-scan	12	TX mode(Left earbuds of BLE 1M/bit)+travel_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel.									
Pre-scan	13	TX mode(Left earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter									
Final test	14	TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation									
Pre-scan	15	TX mode(Right earbuds of BLE 1M/bit)+travel_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel.									
Pre-scan	16	TX mode(Right earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter									



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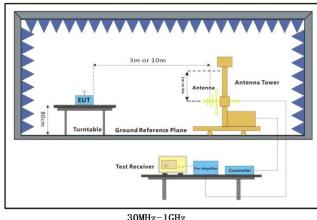
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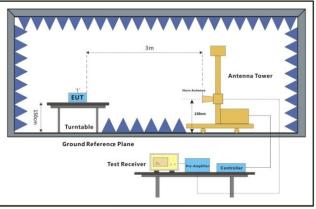


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7.6.3 Test Setup Diagram





Above 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, guasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- 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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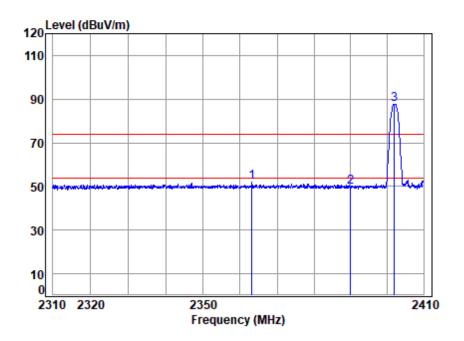
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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT Mode : 2402 Band edge

: BLE(1M) Note

: L

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2363.173	4.30	28.82	40.41	59.15	51.86	74.00	-22.14	peak
2	2390.000	4.34	28.88	40.42	56.91	49.71	74.00	-24.29	peak
3.	2402.000	4.36	28.90	40.43	94.65	87.48	74.00	13.48	peak



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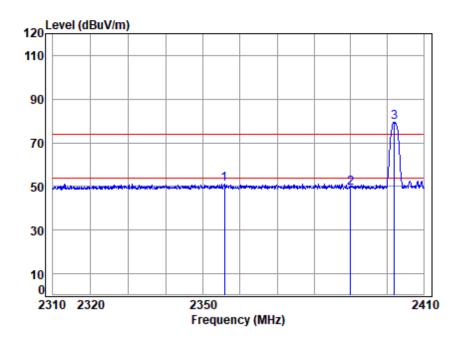
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT Mode : 2402 Band edge

: BLE(1M) Note

: L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2355.773	4.29	28.81	40.40	58.61	51.31	74.00	-22.69	peak
2	2390.000	4.34	28.88	40.42	56.69	49.49	74.00	-24.51	peak
3.	2402.000	4.36	28.90	40.43	86.40	79.23	74.00	5.23	peak



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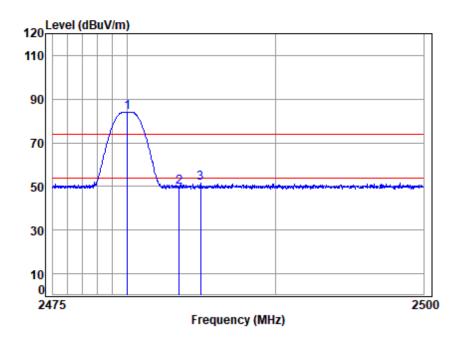
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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT Mode : 2480 Band edge

: BLE(1M) Note

: L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2				40.47 40.47					•
3	2484.920	4.50	29.07	40.47	58.54	51.64	74.00	-22.36	peak



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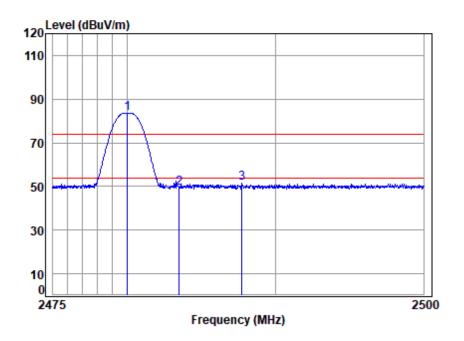
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT Mode : 2480 Band edge

: BLE(1M) Note

1 2 3

: L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	. 2480.000 2483.500								•
}	2487.719								•



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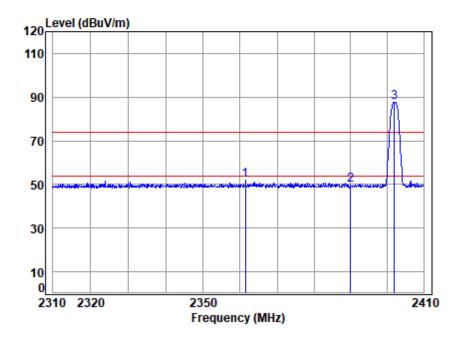
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Test Mode: 14; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 21599AT/21600AT Job No Mode : 2402 Band edge

: BLE(1M) Note

: R

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2361.471	4.30	28.82	40.40	59.09	51.81	74.00	-22.19	peak
2	2390.000	4.34	28.88	40.42	56.81	49.61	74.00	-24.39	peak
3	2402 000	4 36	28 90	40 43	94 89	87 72	74 00	13 72	neak



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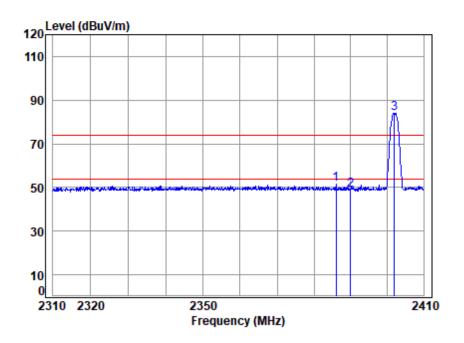
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Test Mode: 14; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 21599AT/21600AT Job No Mode : 2402 Band edge

: BLE(1M) Note

1 2 R

	Cable	An+	Preamp	Pood		Limit	Oven	
Г								Damanla
Freq	LOSS	ractor	Factor	rever	rever	Line	LIMIC	Kemark
MHZ	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2386.017	4.34	28.87	40.42	58.64	51.43	74.00	-22.57	peak
2390.000	4.34	28.88	40.42	56.19	48.99	74.00	-25.01	peak
2402 000	4 36	28 90	40 43	90 96	83 79	74 99	9 79	neak



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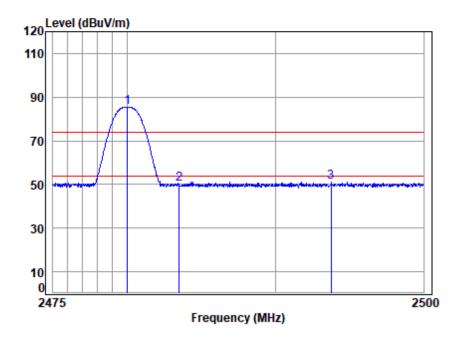
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Test Mode: 14; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT Mode : 2480 Band edge

: BLE(1M) Note

: R

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2480.000	4.49	29.06	40.47	92.18	85.26	74.00	11.26	peak
2		2483.500	4.49	29.07	40.47	57.13	50.22	74.00	-23.78	peak
3		2493.751	4.51	29.09	40.47	57.90	51.03	74.00	-22.97	peak



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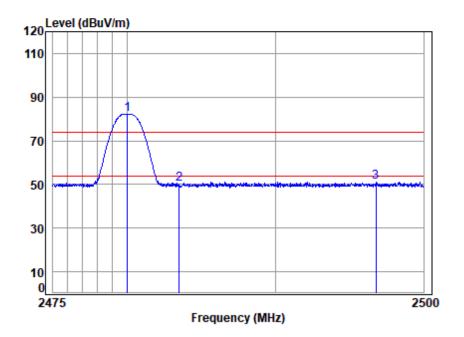
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Test Mode: 14; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT Mode : 2480 Band edge

: BLE(1M) Note

: R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2480.000								•
2	2483.500	4.49	29.07	40.47	57.05	50.14	74.00	-23.86	peak
3	2496.786	4.51	29.09	40.47	58.11	51.24	74.00	-22.76	peak



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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: 23.6 °C Atmospheric Pressure: 1010 mbar Humidity: 49.1 % RH

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation				
Pre-scan	12	TX mode(Left earbuds of BLE 1M/bit)+travel_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel.				
Pre-scan	13	TX mode(Left earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter				
Final test	Final test 14 TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmode with GFSK modulation					
Pre-scan	15	TX mode(Right earbuds of BLE 1M/bit)+travel_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel.				
Pre-scan	16	TX mode(Right earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter				



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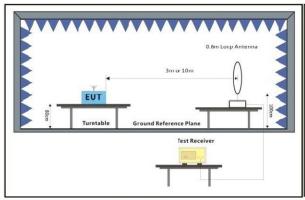
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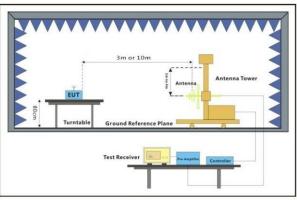


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7.7.3 Test Setup Diagram





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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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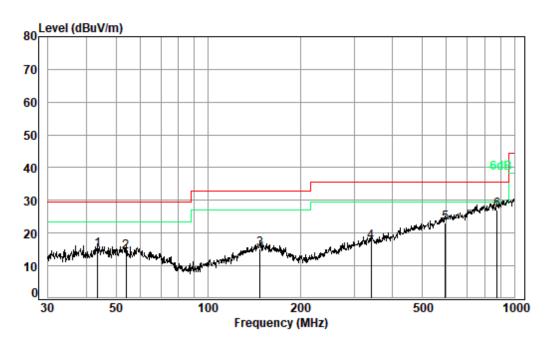
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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 10m HORIZONTAL

Job No. : 21599AT

Test Mode: 11

	Freq		Preamp Factor						Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	43.659	20.32	32.50	0.94	26.03	14.79	29.50	-14.71	QP
2	53.882	20.09	32.49	1.00	25.66	14.26	29.50	-15.24	QP
3	147.921	20.10	32.42	1.48	26.06	15.22	33.00	-17.78	QP
4	340.782	20.50	32.36	2.31	26.76	17.21	35.60	-18.39	QP
5	595.133	25.91	32.30	3.09	26.54	23.24	35.60	-12.36	QP
6 pp	878.322	29.08	31.70	3.42	26.38	27.18	35.60	-8.42	OP



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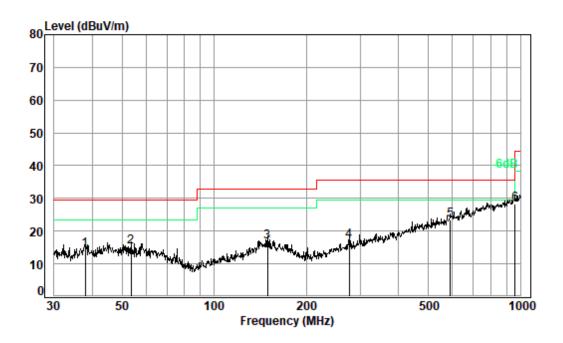
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 10m VERTICAL

Job No. : 21599AT

Test Mode: 11

	Freq		Preamp Factor						Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.945	19.99	32.50	0.92	25.85	14.26	29.50	-15.24	QP
2	53.505	20.05	32.50	0.99	26.63	15.17	29.50	-14.33	QP
3	149.486	20.18	32.42	1.48	27.52	16.76	33.00	-16.24	QP
4	276.124	19.12	32.40	2.01	28.39	17.12	35.60	-18.48	QP
5	590.974	25.74	32.30	3.08	26.94	23.46	35.60	-12.14	QP
6 pp	958.794	29.89	31.06	3.58	25.84	28.25	35.60	-7.35	OP



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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
37.95	14.26	5.16	17.21	24.72	40.00	-15.28	V
53.51	15.17	5.73	19.12	25.63	40.00	-14.37	V
149.49	16.76	6.89	22.96	27.22	43.50	-16.28	V
276.12	17.12	7.18	23.93	27.58	46.00	-18.42	V
590.97	23.46	14.89	49.65	33.92	46.00	-12.08	V
958.79	28.25	25.85	86.17	38.71	46.00	-7.29	V
43.66	14.79	5.49	18.30	25.25	40.00	-14.75	Н
53.88	14.26	5.16	17.21	24.72	40.00	-15.28	Н
147.92	15.22	5.77	19.23	25.68	43.50	-17.82	Н
240.78	17.21	7.25	24.18	27.67	46.00	-18.33	Н
595.13	23.24	14.52	48.40	33.70	46.00	-12.30	Н
878.32	27.18	22.86	76.19	37.64	46.00	-8.36	Н



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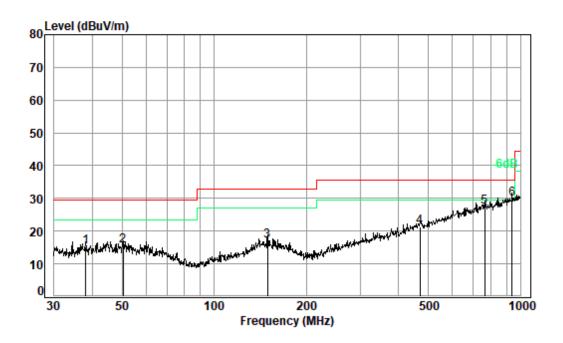
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Test Mode: 14; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 10m HORIZONTAL

Job No. : 21599AT

Test Mode: 14

	Freq		Preamp Factor						Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	38.078	20.00	32.50	0.92	26.67	15.09	29.50	-14.41	QP
2	50.409	20.22	32.50	0.96	26.73	15.41	29.50	-14.09	QP
3	149.486	20.18	32.42	1.48	27.90	17.14	33.00	-15.86	QP
4	470.523	23.70	32.30	2.69	27.20	21.29	35.60	-14.31	QP
5	763.376	28.32	32.17	3.33	27.94	27.42	35.60	-8.18	QP
6 pp	938.833	29.80	31.24	3.53	27.86	29.95	35.60	-5.65	OP



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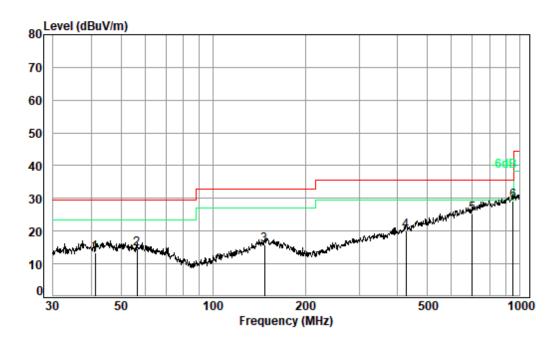
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Test Mode: 14; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 10m VERTICAL

Job No. : 21599AT

Test Mode: 14

	Freq		Preamp Factor						Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	41.132	20.23	32.50	0.93	24.80	13.46	29.50	-16.04	QP
2	56.395	19.54	32.49	1.02	26.40	14.47	29.50	-15.03	QP
3	147.404	20.07	32.42	1.48	26.60	15.73	33.00	-17.27	QP
4	426.521	22.56	32.30	2.49	27.22	19.97	35.60	-15.63	QP
5	701.761	27.04	32.30	3.31	27.28	25.33	35.60	-10.27	QP
6 pp	952.094	29.86	31.12	3.56	26.82	29.12	35.60	-6.48	OP



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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
41.13	13.46	4.71	15.70	23.92	40.00	-16.08	V
56.40	14.47	5.29	17.64	24.93	40.00	-15.07	V
147.40	15.73	6.12	20.39	26.19	43.50	-17.31	V
426.52	19.97	9.97	33.22	30.43	46.00	-15.57	V
701.76	25.33	18.47	61.57	35.79	46.00	-10.21	V
952.09	29.12	28.58	95.25	39.58	46.00	-6.42	V
38.08	15.09	5.68	18.94	25.55	40.00	-14.45	Н
50.41	15.41	5.90	19.65	25.87	40.00	-14.13	Н
149.49	17.14	7.19	23.98	27.60	43.50	-15.90	Н
470.52	21.29	11.60	38.67	31.75	46.00	-14.25	Н
763.38	27.42	23.50	78.32	37.88	46.00	-8.12	Н
938.83	29.95	31.44	104.80	40.41	46.00	-5.59	Н



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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

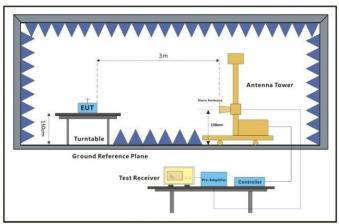
Operating Environment:

Temperature: 23.6 °C Humidity: 53.6 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Final test	11	TX mode(Left earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Pre-scan	12	TX mode(Left earbuds of BLE 1M/bit)+travel_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel.						
Pre-scan	13	TX mode(Left earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter						
Final test	14	TX mode(Right earbuds of BLE 1M/bit)_Keep the EUT in continuously transmitting mode with GFSK modulation						
Pre-scan	15	TX mode(Right earbuds of BLE 1M/bit)+travel_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel.						
Pre-scan	16	TX mode(Right earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter						

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
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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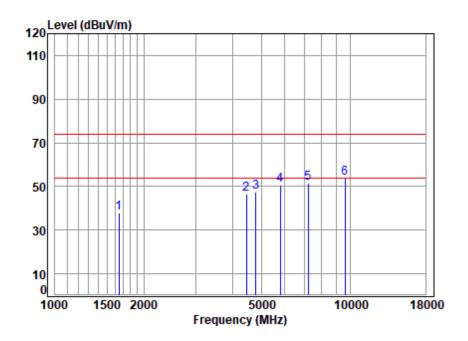
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Report No.: SZCR210602159903

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Test Mode: 14; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT

Mode : 2402 TX SE Note : BLE(1M)

: R

	Frea			Preamp Factor					Remark
	MHz	dB	aB/m	dB	aBuV	aBuV/m	aBuV/m	dB	
1	1648.778	3.39	26.46	40.03	48.19	38.01	74.00	-35.99	peak
2	4456.315	6.72	32.97	41.84	48.72	46.57	74.00	-27.43	peak
3	4804.000	7.10	33.62	42.14	48.82	47.40	74.00	-26.60	peak
4	5797.032	8.23	34.44	42.38	50.16	50.45	74.00	-23.55	peak
5	7206.000	8.74	35.67	41.50	48.61	51.52	74.00	-22.48	peak
6	9608.000	10.81	37.34	37.76	43.42	53.81	74.00	-20.19	peak



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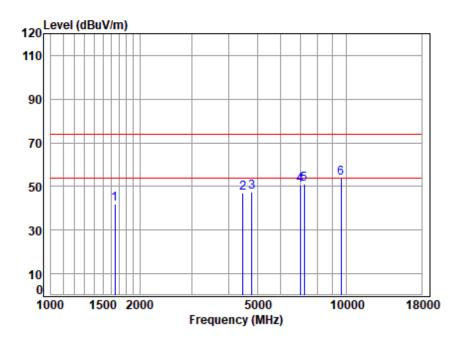
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Report No.: SZCR210602159903

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Test Mode: 14; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT

: 2402 TX SE Mode : BLE(1M) Note

: R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq			Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.39	26.46	40.03	52.20	42.02	74.00	-31.98	peak
2	4469.214	6.73	32.98	41.85	48.96	46.82	74.00	-27.18	peak
3	4804.000	7.10	33.62	42.14	48.97	47.55	74.00	-26.45	peak
4	6995.172	8.54	35.49	41.70	48.33	50.66	74.00	-23.34	peak
5	7206.000	8.74	35.67	41.50	48.28	51.19	74.00	-22.81	peak
6	9608.000	10.81	37.34	37.76	43.57	53.96	74.00	-20.04	peak



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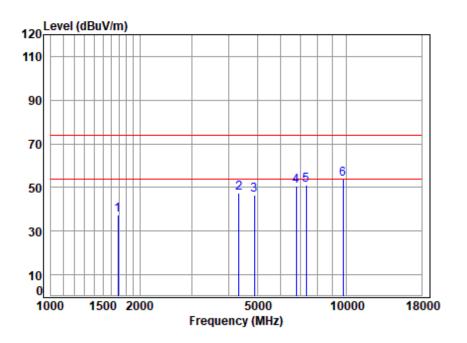
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Report No.: SZCR210602159903

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Test Mode: 14; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT

Mode : 2440 TX SE Note : BLE(1M)

: R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	3.42	26.64	40.05	47.34	37.35	74.00	-36.65	peak
2	4329.354	6.60	32.87	41.72	49.68	47.43	74.00	-26.57	peak
3	4880.000	7.18	33.77	42.20	47.69	46.44	74.00	-27.56	peak
4	6776.265	8.43	35.11	41.85	49.01	50.70	74.00	-23.30	peak
5	7320.000	8.84	35.76	41.40	47.89	51.09	74.00	-22.91	peak
6	9760.000	10.76	37.41	37.50	43.13	53.80	74.00	-20.20	peak



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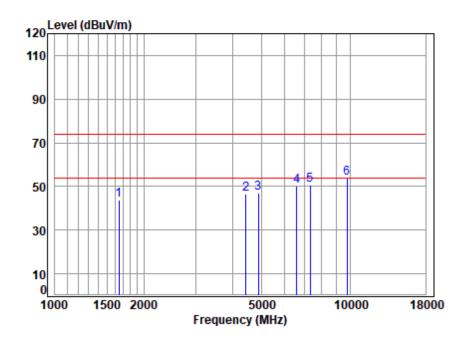
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Test Mode: 14; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT

Mode : 2440 TX SE Note : BLE(1M)

: R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.39	26.46	40.03	53.87	43.69	74.00	-30.31	peak
2	4443.453	6.71	32.96	41.82	48.62	46.47	74.00	-27.53	peak
3	4880.000	7.18	33.77	42.20	48.24	46.99	74.00	-27.01	peak
4	6602.265	8.33	34.79	41.97	48.99	50.14	74.00	-23.86	peak
5	7320.000	8.84	35.76	41.40	47.57	50.77	74.00	-23.23	peak
6	9760.000	10.76	37.41	37.50	43.03	53.70	74.00	-20.30	peak



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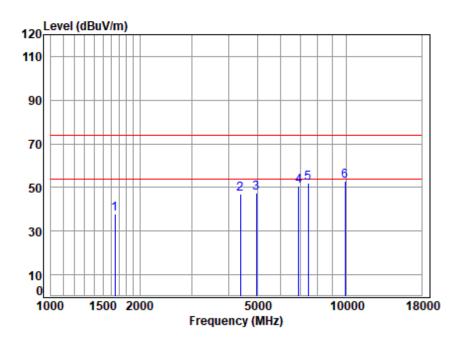
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Test Mode: 14; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT

Mode : 2480 TX SE Note : BLE(1M)

: R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.39	26.46	40.03	48.23	38.05	74.00	-35.95	peak
2	4392.376	6.66	32.92	41.78	49.16	46.96	74.00	-27.04	peak
3	4960.000	7.26	33.92	42.27	48.55	47.46	74.00	-26.54	peak
4	6894.806	8.49	35.32	41.77	48.40	50.44	74.00	-23.56	peak
5	7440.000	8.96	35.85	41.29	48.31	51.83	74.00	-22.17	peak
6	9920.000	10.71	37.47	37.23	42.18	53.13	74.00	-20.87	peak



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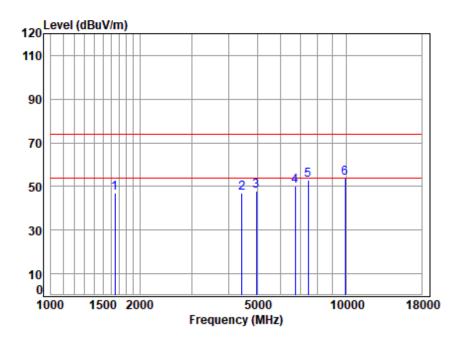
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Test Mode: 14; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT

Mode : 2480 TX SE : BLE(1M) Note

: R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dR/m	dB	dRuV	dRuV/m	dRuV/m	dB	
	11112	ub	ub/ III	uD.	abav	abav/ III	abav, iii	ub.	
4	1640 770	2 20	26 46	40.02	F7 30	47 24	74.00	26.70	
1	1648.778	3.39	20.40	40.03	5/.59	4/.21	74.00	-20.79	peak
2	4443.453	6.71	32.96	41.82	48.99	46.84	74.00	-27.16	peak
3	4960.000	7.26	33.92	42.27	48.93	47.84	74.00	-26.16	peak
4	6717.762	8.40	35.00	41.89	48.84	50.35	74.00	-23.65	peak
5	7440.000								•
6	9920.000	10.71	37.47	37.23	42.82	53.77	74.00	-20.23	peak



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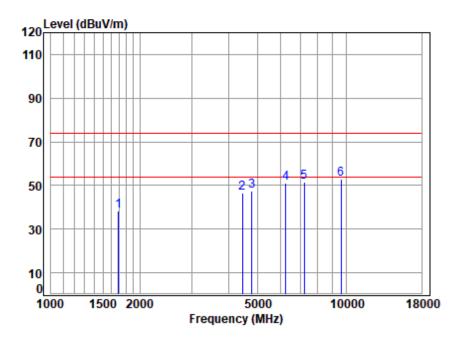
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Test Mode: 11; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT

Mode : 2402 TX SE Note : BLE(1M)

: L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	3.42	26.66	40.06	48.29	38.31	74.00	-35.69	peak
2	4456.315	6.72	32.97	41.84	48.71	46.56	74.00	-27.44	peak
3	4804.000	7.10	33.62	42.14	48.74	47.32	74.00	-26.68	peak
4	6249.464	8.27	34.60	42.22	50.59	51.24	74.00	-22.76	peak
5	7206.000	8.74	35.67	41.50	48.86	51.77	74.00	-22.23	peak
6	9608.000	10.81	37.34	37.76	42.68	53.07	74.00	-20.93	peak



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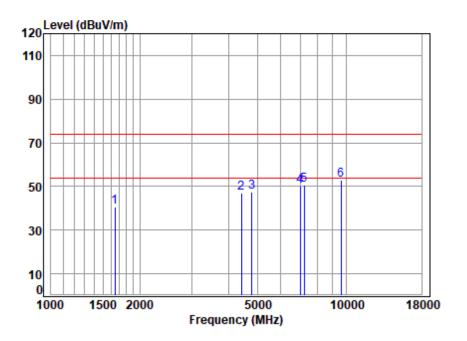
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT

Mode : 2402 TX SE Note : BLE(1M)

: L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.39	26.46	40.03	50.62	40.44	74.00	-33.56	peak
2	4417.841	6.68	32.94	41.80	49.06	46.88	74.00	-27.12	peak
3	4804.000	7.10	33.62	42.14	48.88	47.46	74.00	-26.54	peak
4	6974.982	8.53	35.46	41.72	48.13	50.40	74.00	-23.60	peak
5	7206.000	8.74	35.67	41.50	47.95	50.86	74.00	-23.14	peak
6	9608.000	10.81	37.34	37.76	42.76	53.15	74.00	-20.85	peak



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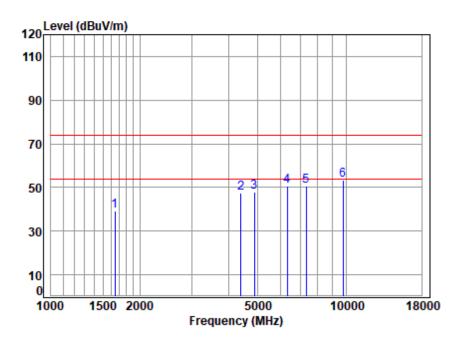
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Test Mode: 11; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT

Mode : 2440 TX SE Note : BLE(1M)

: L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.39	26.46	40.03	49.63	39.45	74.00	-34.55	peak
2	4405.090	6.67	32.93	41.79	49.76	47.57	74.00	-26.43	peak
3	4880.000	7.18	33.77	42.20	48.96	47.71	74.00	-26.29	peak
4	6322.136	8.27	34.60	42.16	49.77	50.48	74.00	-23.52	peak
5	7320.000								•
	9760.000								•



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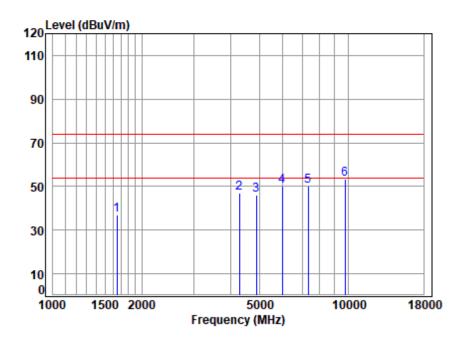
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT

Mode : 2440 TX SE Note : BLE(1M)

: L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.39	26.46	40.03	47.06	36.88	74.00	-37.12	peak
2	4291.977	6.57	32.84	41.68	49.20	46.93	74.00	-27.07	peak
3	4880.000	7.18	33.77	42.20	47.37	46.12	74.00	-27.88	peak
4	5984.305	8.26	34.59	42.40	49.95	50.40	74.00	-23.60	peak
5	7320.000	8.84	35.76	41.40	46.86	50.06	74.00	-23.94	peak
6	9760.000	10.76	37.41	37.50	42.49	53.16	74.00	-20.84	peak



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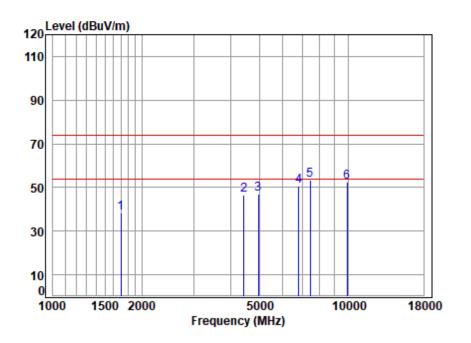
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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21599AT/21600AT

Mode : 2480 TX SE : BLE(1M) Note

: L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.43	26.71	40.06	48.18	38.26	74.00	-35.74	peak
2	4443.453	6.71	32.96	41.82	48.54	46.39	74.00	-27.61	peak
3	4960.000	7.26	33.92	42.27	48.23	47.14	74.00	-26.86	peak
4	6795.879	8.44	35.14	41.83	49.11	50.86	74.00	-23.14	peak
5	7440.000	8.96	35.85	41.29	49.68	53.20	74.00	-20.80	peak
6	9920.000	10.71	37.47	37.23	41.52	52.47	74.00	-21.53	peak



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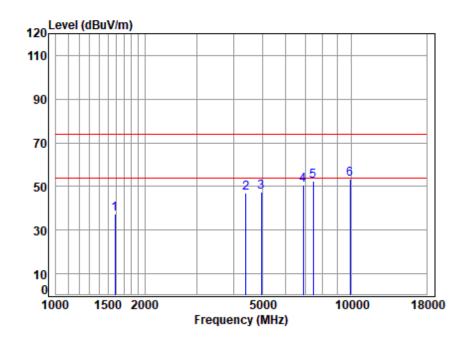
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21599AT/21600AT

Mode : 2480 TX SE Note : BLE(1M)

: L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.33	26.13	40.00	48.01	37.47	74.00	-36.53	peak
2	4405.090	6.67	32.93	41.79	49.02	46.83	74.00	-27.17	peak
3	4960.000	7.26	33.92	42.27	48.64	47.55	74.00	-26.45	peak
4	6874.906	8.48	35.28	41.78	48.84	50.82	74.00	-23.18	peak
5	7440.000	8.96	35.85	41.29	49.14	52.66	74.00	-21.34	peak
6	9920.000	10.71	37.47	37.23	42.40	53.35	74.00	-20.65	peak



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Emission Test Results 8

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

47 CFR Part 15, Subpart C 15.247 & 15.207 Test Requirement:

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco (MALLE)	Conducted limit(dBµV)						
Frequency of emission(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30 60 50							
*Decreases with the logarithm of the frequency.							
Detector: Peak for pre-scan (9kHz	resolution bandwidth) 0.15M to 30	MHz					

8.1.1 E.U.T. Operation

Operating Environment:

21.5 °C Temperature: Humidity: 62.3 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

0.1.2 1631	Mode Descrip	ALOH
Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode(Left earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter
Final test	16	TX mode(Right earbuds of BLE 1M/bit)+travel+adapter_Keep the EUT in continuously transmitting mode with GFSK modulation and charge by travel+adapter



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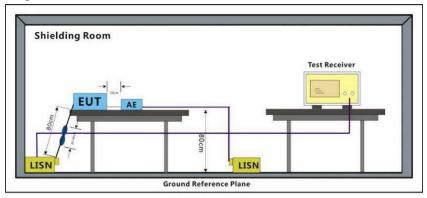
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8.1.3 Test Setup Diagram



8.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



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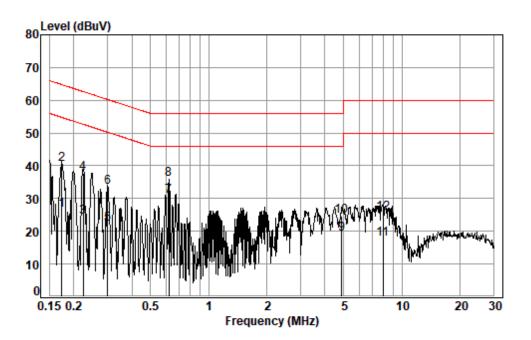
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Test Mode: 13; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line Job No. : 21599AT

Test mode: 13

1636	mode. 13							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1740	0.03	9.71	16.70	26.44	54.77	-28.33	Average
2	0.1740	0.03	9.71	30.77	40.51	64.77	-24.26	QP
3	0.2244	0.04	9.73	14.67	24.44	52.66	-28.22	Average
4	0.2244	0.04	9.73	27.99	37.76	62.66	-24.90	QP
5	0.3003	0.05	9.74	12.51	22.30	50.24	-27.94	Average
6	0.3003	0.05	9.74	23.63	33.42	60.24	-26.82	QP
7	0.6238	0.08	9.77	20.80	30.65	46.00	-15.35	Average
8	0.6238	0.08	9.77	26.01	35.86	56.00	-20.14	QP
9	4.8738	0.16	9.92	8.95	19.03	46.00	-26.97	Average
10	4.8738	0.16	9.92	14.48	24.56	56.00	-31.44	QP
11	7.9774	0.16	10.09	7.29	17.54	50.00	-32.46	Average
12	7.9774	0.16	10.09	15.42	25.67	60.00	-34.33	QP
								•



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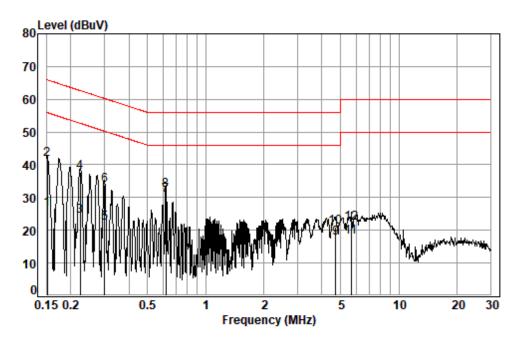
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Test Mode: 13; Line: Neutral Line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 21599AT

Test mode: 13

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	——dB	
1	0.1516	0.03	9.71	16.70	26.44	55.91	-29.47	Average
2	0.1516	0.03	9.71	31.86	41.60	65.91	-24.31	QP
3	0.2244	0.04	9.73	14.45	24.22	52.66	-28.44	Average
4	0.2244	0.04	9.73	28.02	37.79	62.66	-24.87	QP
5	0.3003	0.05	9.74	12.54	22.33	50.24	-27.91	Average
6	0.3003	0.05	9.74	24.08	33.87	60.24	-26.37	QP
7	0.6238	0.08	9.77	21.01	30.86	46.00	-15.14	Average
8	0.6238	0.08	9.77	22.51	32.36	56.00	-23.64	QP
9	4.7213	0.16	9.92	7.66	17.74	46.00	-28.26	Average
10	4.7213	0.16	9.92	10.95	21.03	56.00	-34.97	QP
11	5.6833	0.16	9.97	7.83	17.96	50.00	-32.04	Average
12	5.6833	0.16	9.97	12.02	22.15	60.00	-37.85	QP



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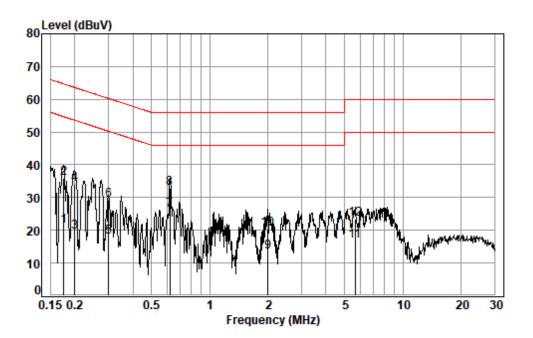
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Test Mode: 16; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line Job No. : 21599AT

Test mode: 16

	mode. 10							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
4	0 1750	0.03	0.71	11 50	24 22	F4 C0	22.25	A
1	0.1758	0.03	9.71	11.59	21.33	54.00	-33.33	Average
2	0.1758	0.03	9.71	26.29	36.03	64.68	-28.65	QP
3	0.2007	0.04	9.72	9.63	19.39	53.58	-34.19	Average
4	0.2007	0.04	9.72	24.22	33.98	63.58	-29.60	QP
5	0.3003	0.05	9.74	8.18	17.97	50.24	-32.27	Average
6	0.3003	0.05	9.74	19.52	29.31	60.24	-30.93	QP
7	0.6238	0.08	9.77	16.24	26.09	46.00	-19.91	Average
8	0.6238	0.08	9.77	23.15	33.00	56.00	-23.00	QP
9	2.0012	0.13	9.81	3.39	13.33	46.00	-32.67	Average
10	2.0012	0.13	9.81	10.51	20.45	56.00	-35.55	QP
11	5.6833	0.16	9.97	6.64	16.77	50.00	-33.23	Average
12	5.6833	0.16	9.97	13.19	23.32	60.00	-36.68	QP



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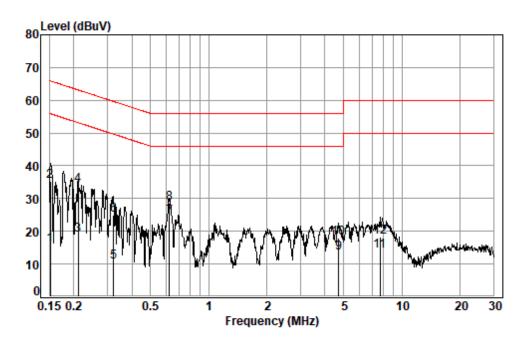
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Test Mode: 16; Line: Neutral Line; Modulation: GFSK; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 21599AT

Test mode: 16

	mode. 10							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.03	9.71	6.19	15.93	55.91	-39.98	Average
2	0.1516	0.03	9.71	25.65	35.39	65.91	-30.52	QP
3	0.2117	0.04	9.72	9.11	18.87	53.14	-34.27	Average
4	0.2117	0.04	9.72	24.22	33.98	63.14	-29.16	QP
5	0.3217	0.06	9.74	0.77	10.57	49.66	-39.09	Average
6	0.3217	0.06	9.74	15.14	24.94	59.66	-34.72	QP
7	0.6271	0.08	9.77	14.49	24.34	46.00	-21.66	Average
8	0.6271	0.08	9.77	18.74	28.59	56.00	-27.41	QP
9	4.7213	0.16	9.92	3.24	13.32	46.00	-32.68	Average
10	4.7213	0.16	9.92	7.84	17.92	56.00	-38.08	QP
11	7.7278	0.16	10.09	3.68	13.93	50.00	-36.07	Average
12	7.7278	0.16	10.09	8.10	18.35	60.00	-41.65	QP



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Test Setup Photo 9

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2106021599AT



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11 Appendix

Appendix for 15.247

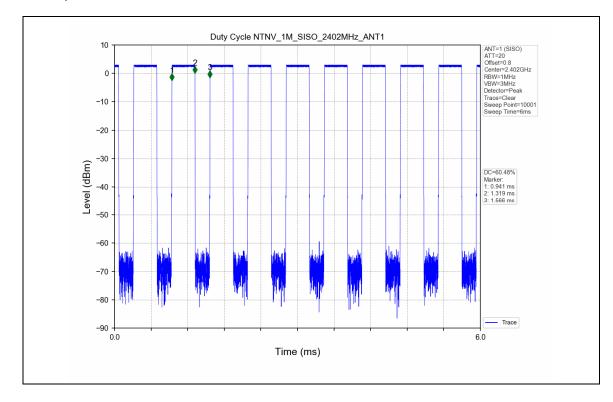
For Right earbuds

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2402	SISO	1	0.378	0.625	60.48	2.18
1M	2440	SISO	1	0.378	0.625	60.48	2.18
	2480	SISO	1	0.378	0.625	60.48	2.18

1.2 Test Graph





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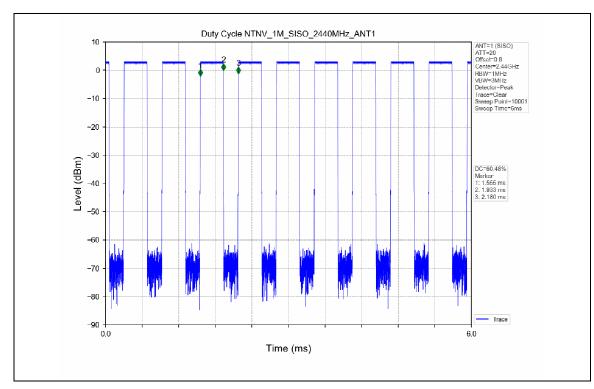
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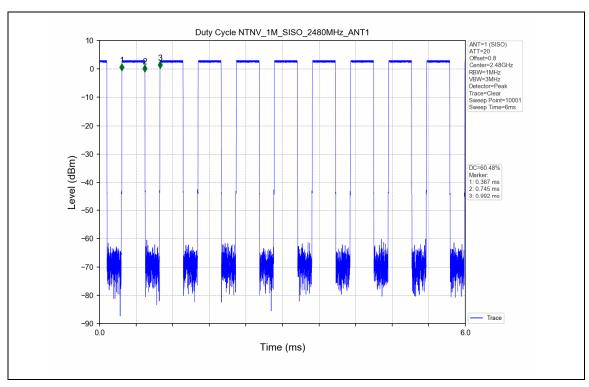
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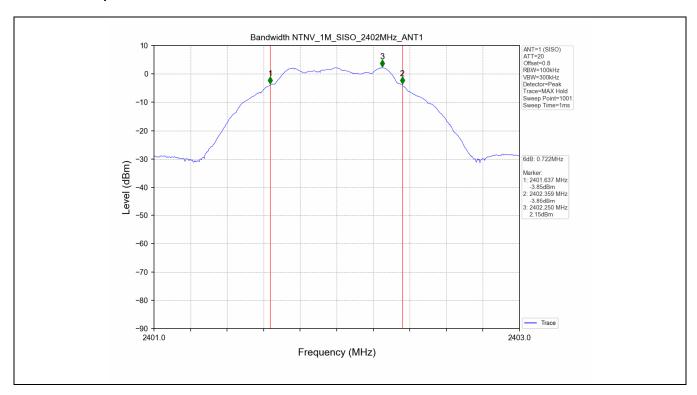
2. Bandwidth

2.1 Test Result

Toot Mode	Frequency	TV Type	ANT No	6dB Bandwidth	Verdict	
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	v eraict	
	2402	SISO	1	0.722	PASS	
1M	2440	SISO	1	0.714	PASS	
	2480	SISO	1	0.717	PASS	

Test Mode	Frequency	TX Type	ANT No.	99% Occupied Bandwidth				
rest Mode	(MHz)	1 X Type	ANT NO.	Test Result (MHz)				
1M	2402	SISO	1	1.042	Only for Report Use			
	2440	SISO	1	1.041	Only for Report Use			
	2480	SISO	1	1.042	Only for Report Use			

2.2 Test Graph - 6dB Bandwidth





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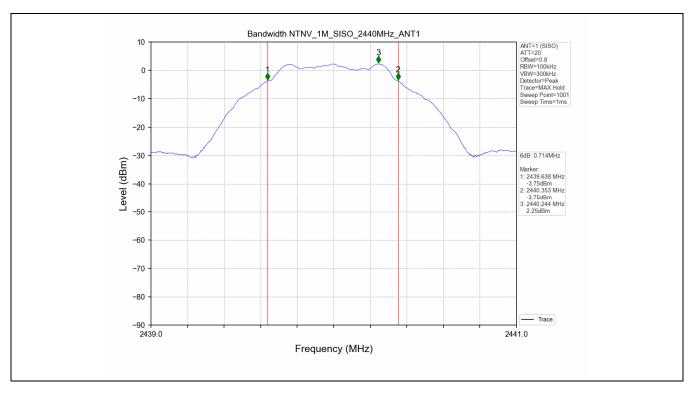
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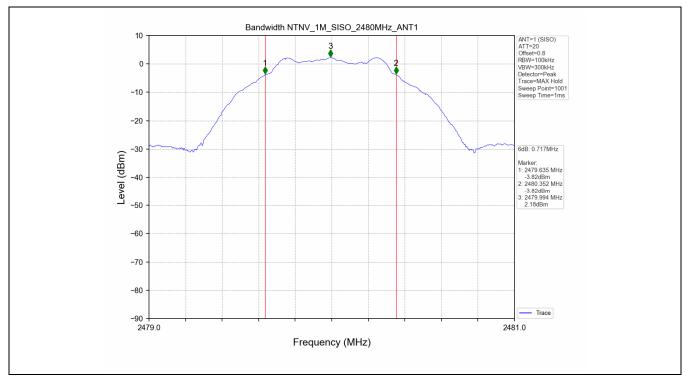
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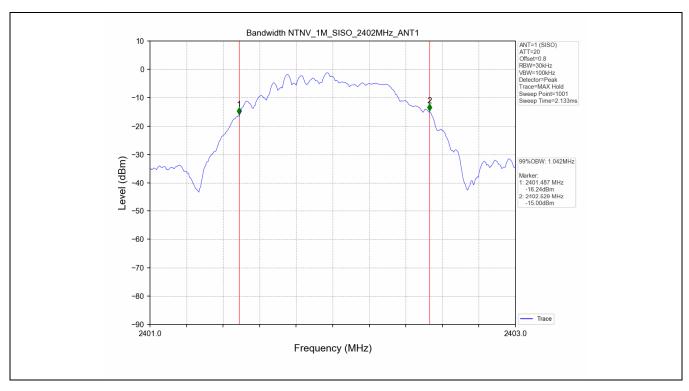
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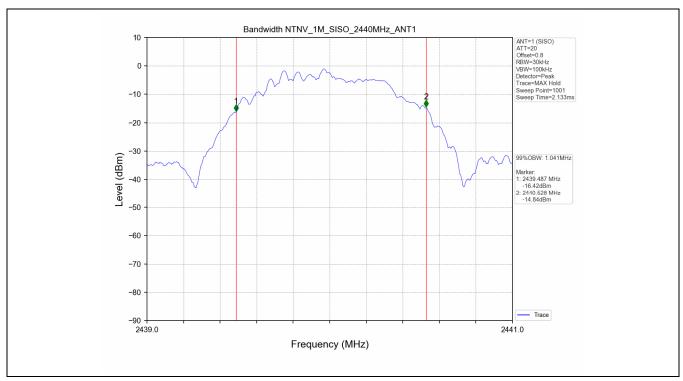


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2.3 Test Graph - 99% Occupied Bandwidth







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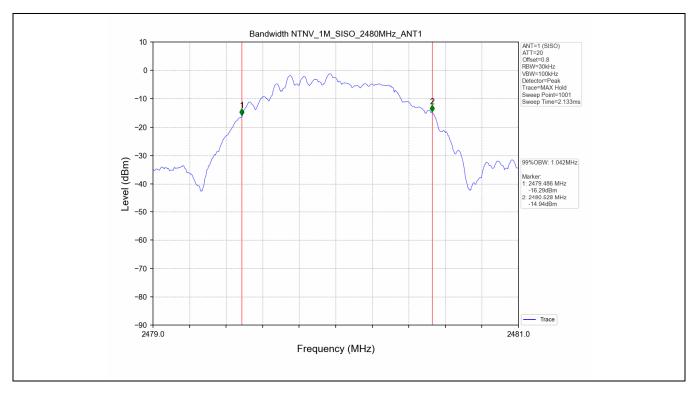
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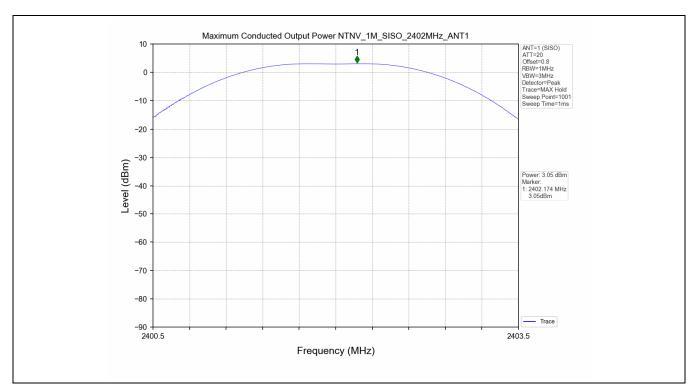
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
1M	2402	SISO	3.05	30	PASS
	2440	SISO	3.15	30	PASS
	2480	SISO	3.07	30	PASS

3.2 Test Graph





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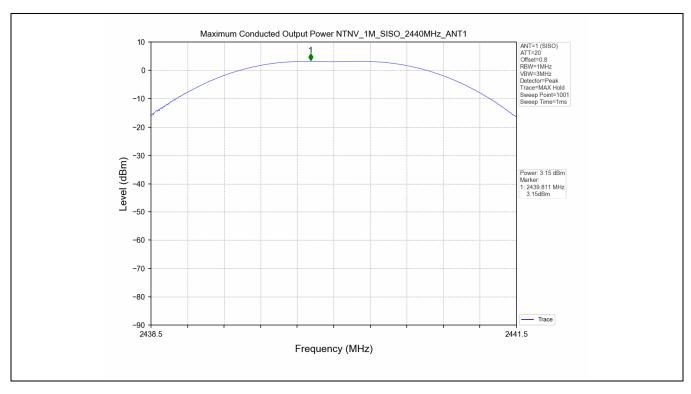
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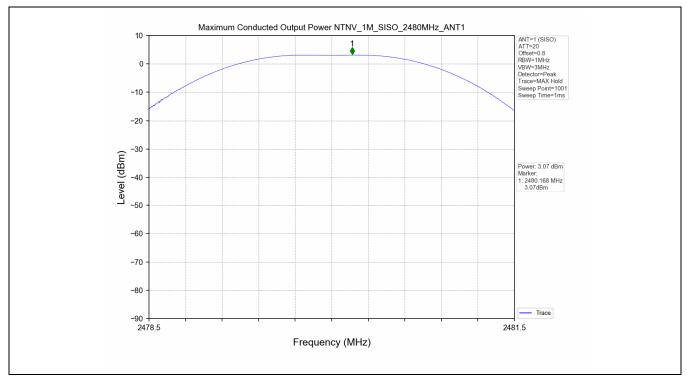
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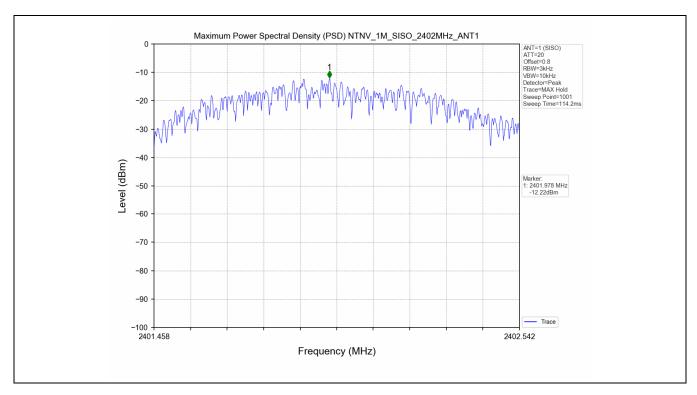
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
1M	2402	SISO	-12.22	≤8	PASS
	2440	SISO	-12.13	≤8	PASS
	2480	SISO	-12.20	≤8	PASS

4.2 Test Graph





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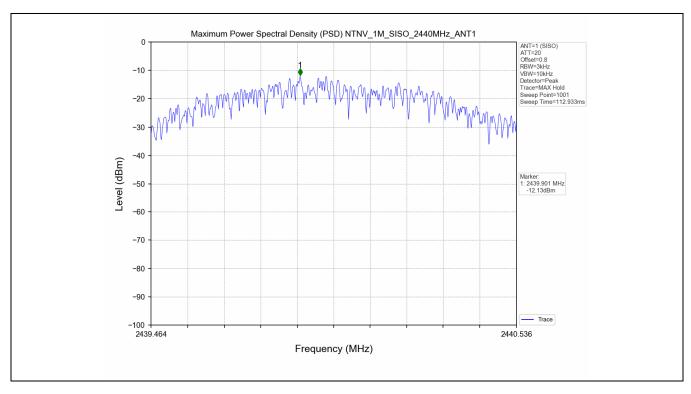
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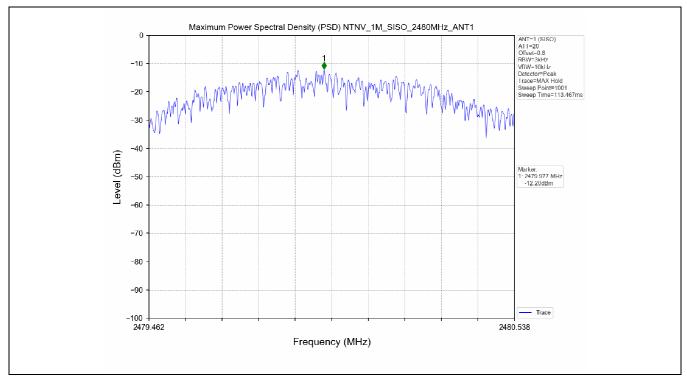
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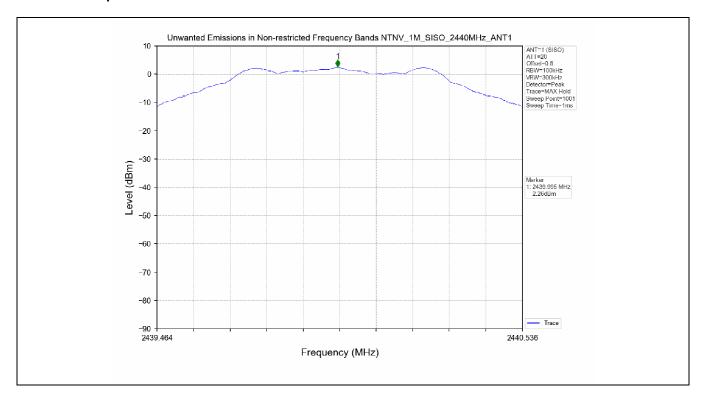
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-17.74	PASS
1M	2440	SISO	1	Refer to test graph	-17.74	PASS
	2480	SISO	1	Refer to test graph	-17.74	PASS

5.2 Test Graph





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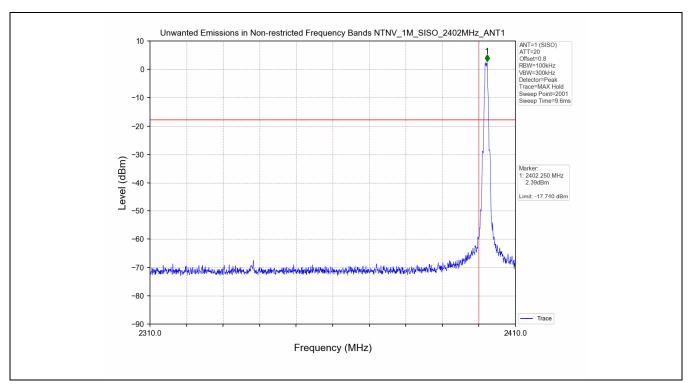
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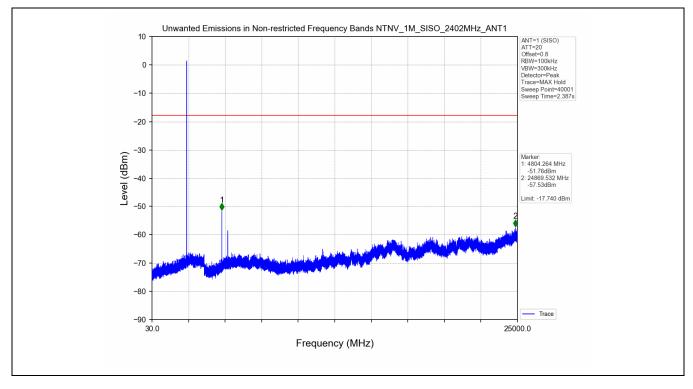
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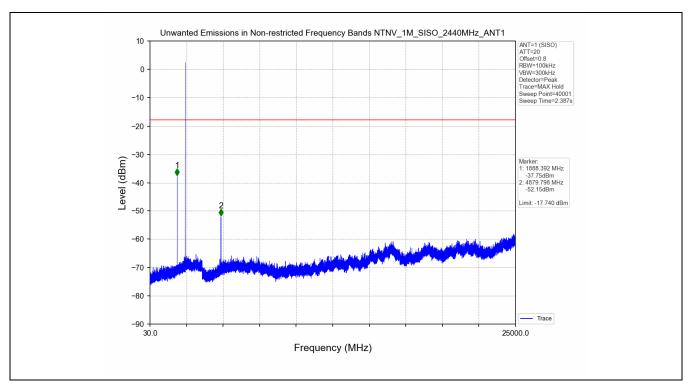
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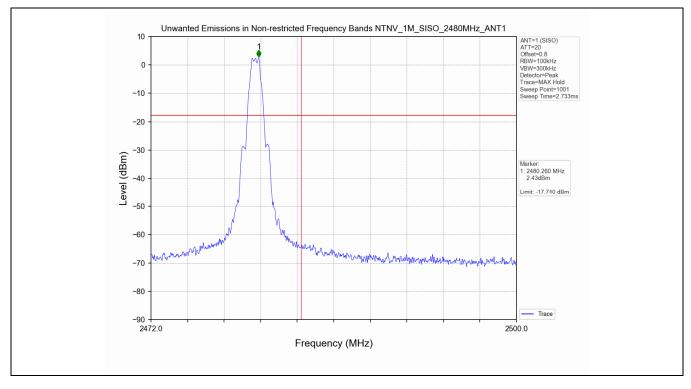
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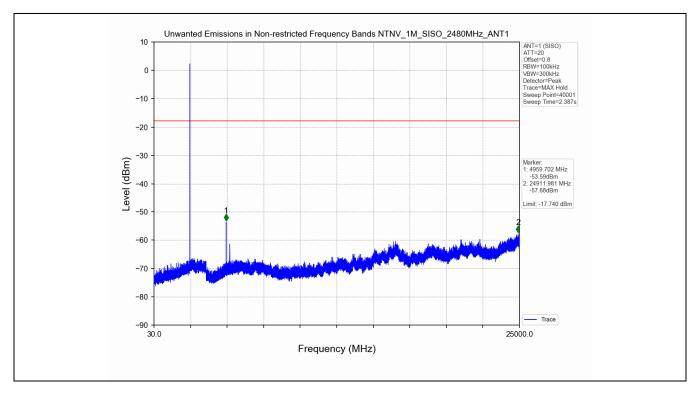
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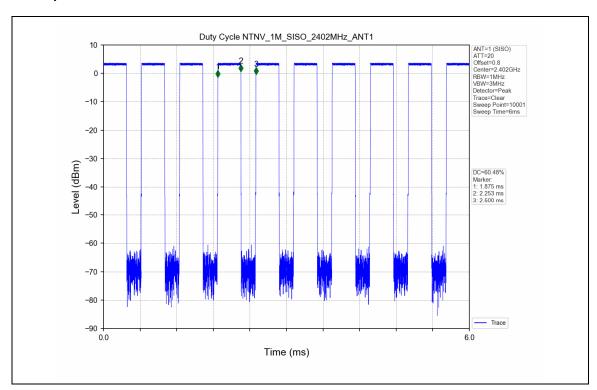
For Left earbuds

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
1M	2402	SISO	1	0.378	0.625	60.48	2.18
	2440	SISO	1	0.378	0.625	60.48	2.18
	2480	SISO	1	0.378	0.625	60.48	2.18

1.2 Test Graph





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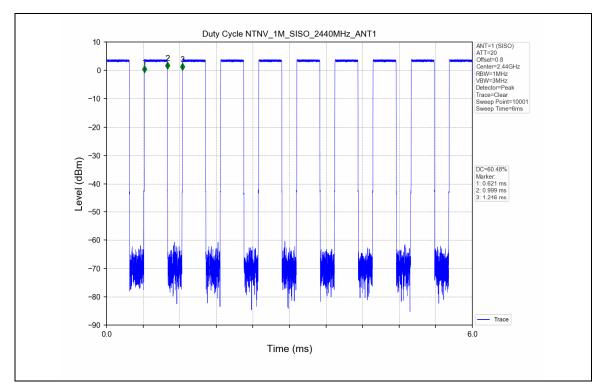
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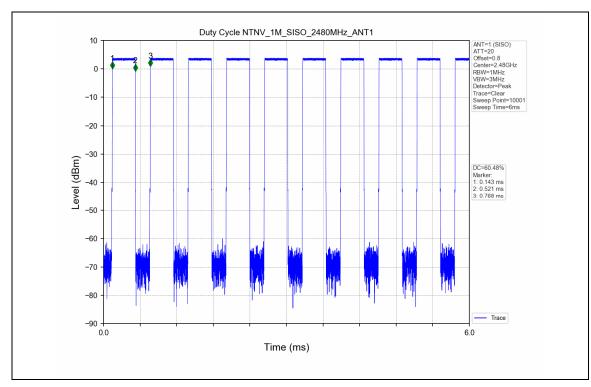
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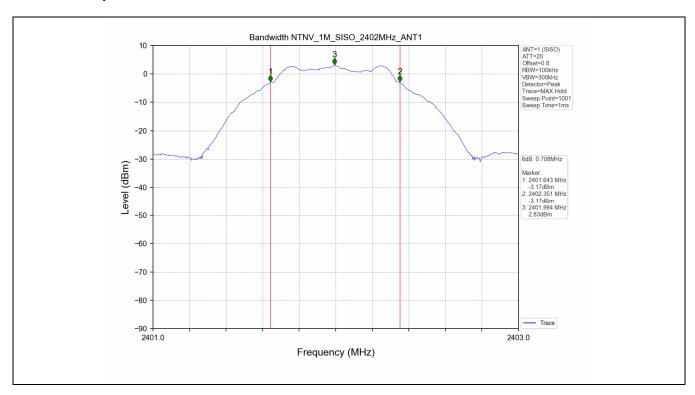
2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict	
				Test Result (MHz)	verdict	
1M	2402	SISO	1	0.708	PASS	
	2440	SISO	1	0.715	PASS	
	2480	SISO	1	0.716	PASS	

Toot Made	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth		
Test Mode				Test Result (MHz)		
1M	2402	SISO	1	1.042	Only for Report Use	
	2440	2440 SISO 1 1.043 Only		Only for Report Use		
	2480	SISO	1	1.042	Only for Report Use	

2.2 Test Graph - 6dB Bandwidth





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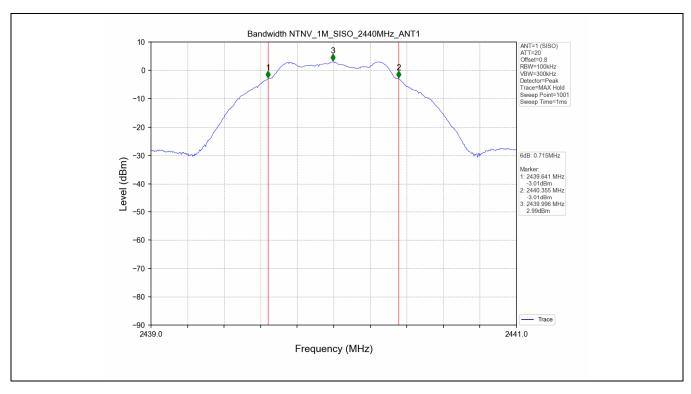
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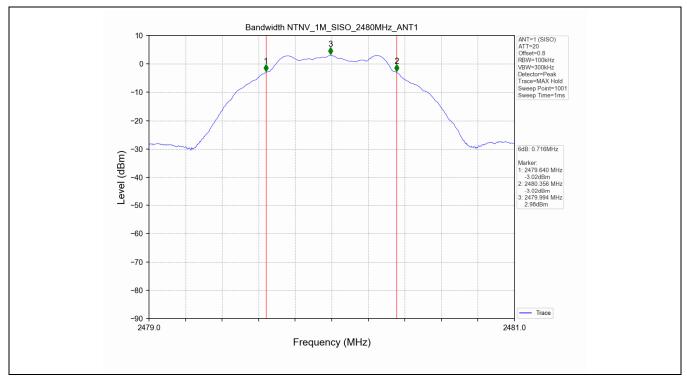
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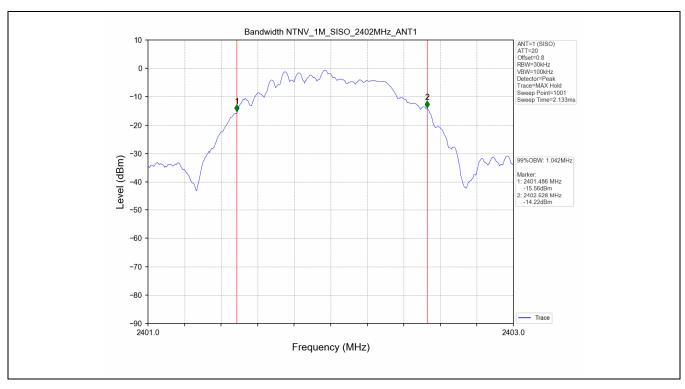
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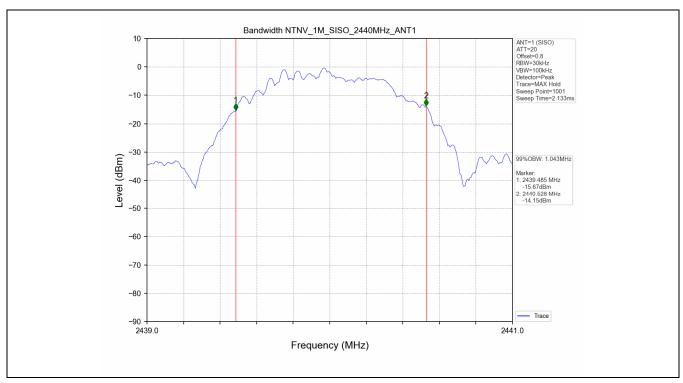


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2.3 Test Graph - 99% Occupied Bandwidth







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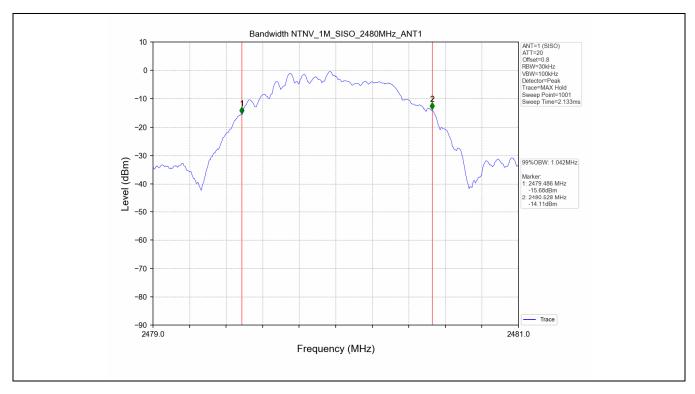
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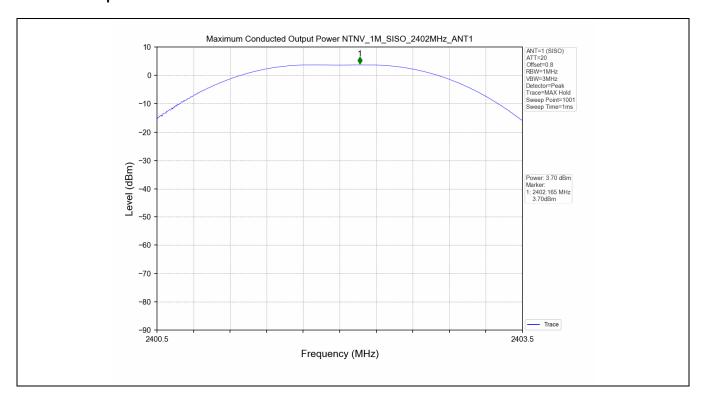
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
1M	2402	SISO	3.70	30	PASS
	2440	SISO	3.84	30	PASS
	2480	SISO	3.83	30	PASS

3.2 Test Graph





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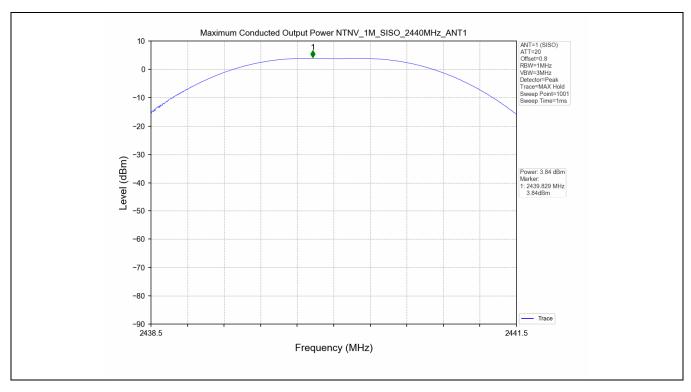
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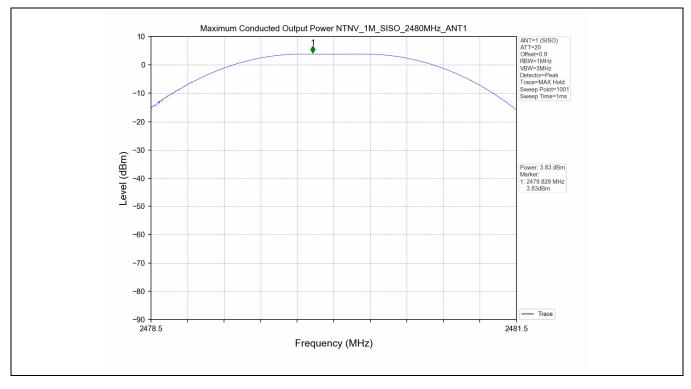
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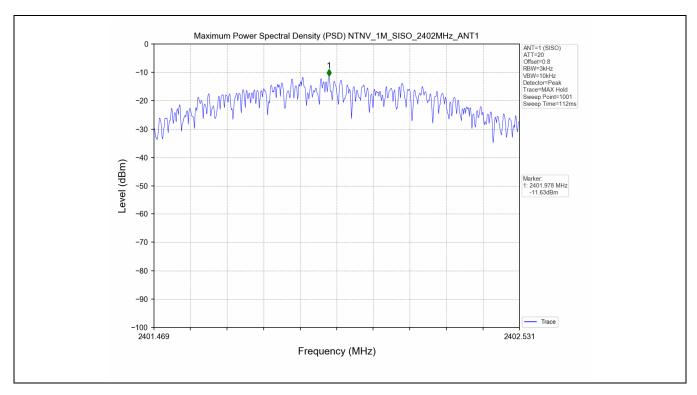
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2402	SISO	-11.63	≤8	PASS
1M	2440	SISO	-11.48	≤8	PASS
	2480	SISO	-11.42	≤8	PASS

4.2 Test Graph





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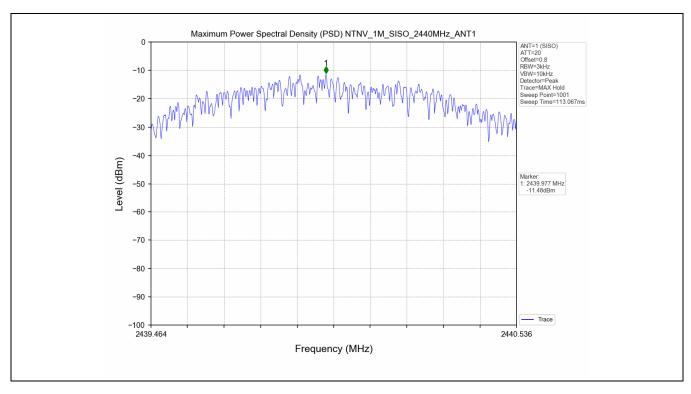
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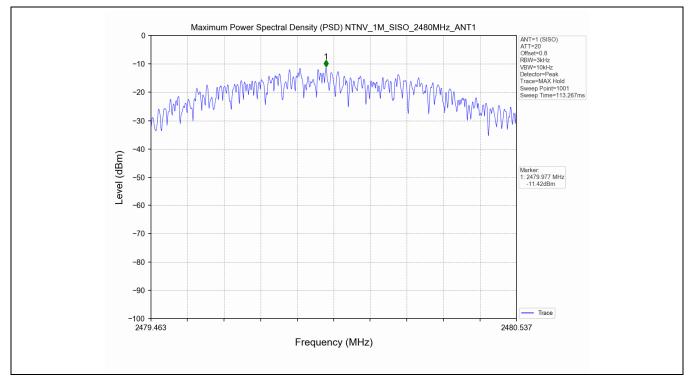
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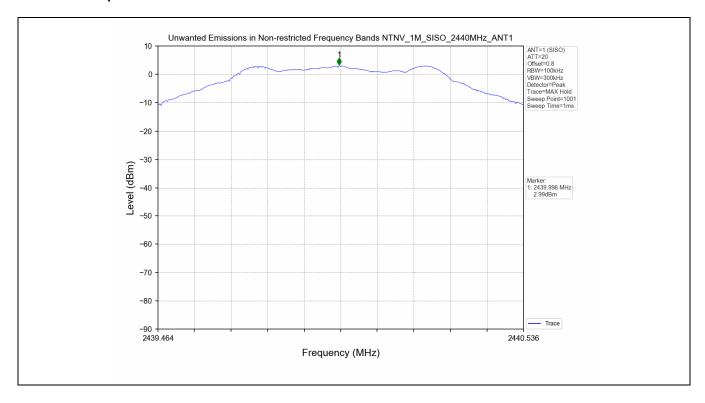
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
1M	2402	SISO	1	Refer to test graph	-17.01	PASS
	2440	SISO	1	Refer to test graph	-17.01	PASS
	2480	SISO	1	Refer to test graph	-17.01	PASS

5.2 Test Graph





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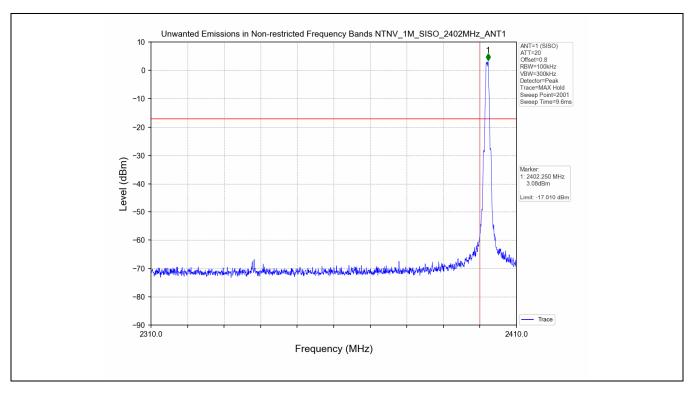
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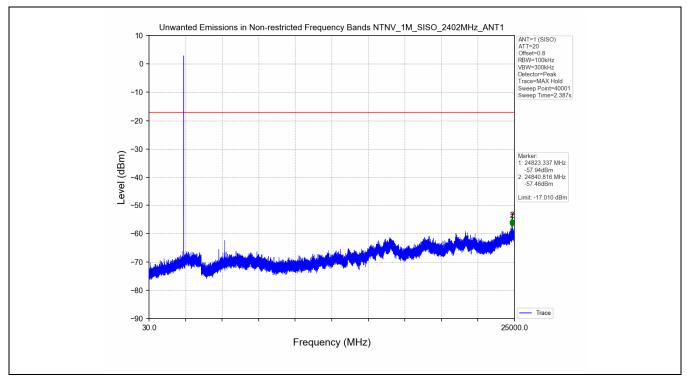
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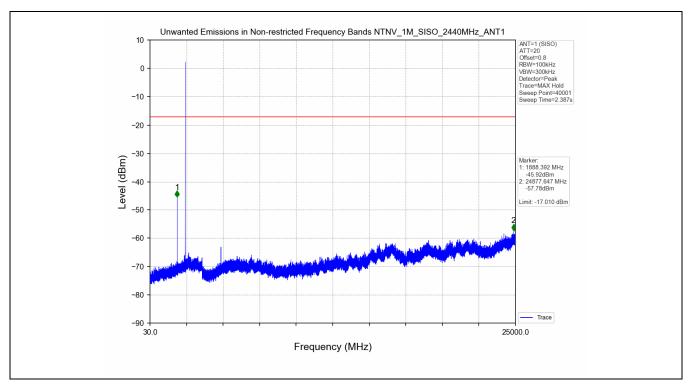
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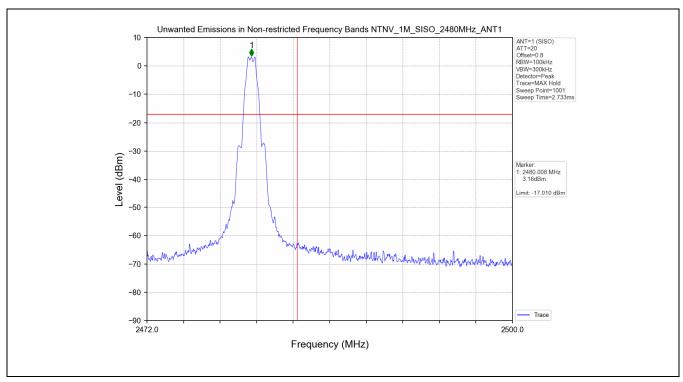
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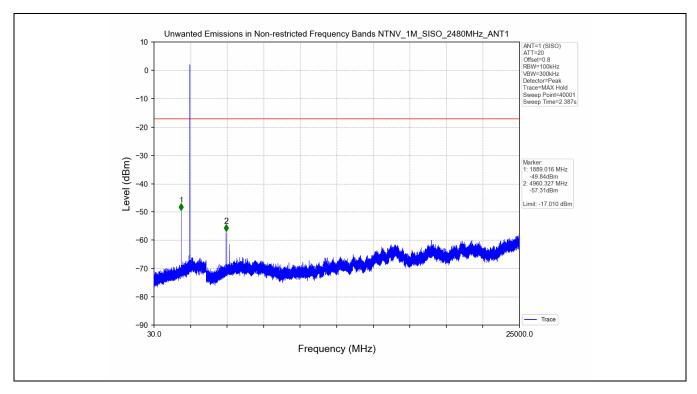
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