



Report No.: SZEM190601521103

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TEST REPORT

Application No.: SZEM1906015211CR

Applicant: Kingstate Electronics(DongGuan)Co., Ltd.

Address of Applicant: Shi Chong Industrial Park, Shi Chong Avenue, Xiang Xi Village, Shi Pai

Town, Dongguan, China

Manufacturer: Kingstate Electronics(DongGuan)Co., Ltd.

Address of Manufacturer: Shi Chong Industrial Park, Shi Chong Avenue, Xiang Xi Village, Shi Pai

Town, Dongguan, China

Equipment Under Test (EUT):

EUT Name: WIRELESS HEADPHONES

Model No.: HA-A10T Trade mark: JVC

FCC ID: 2AKMBHA-A10T

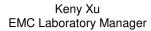
Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2019-06-15

Date of Test: 2019-06-17 to 2019-07-04

Date of Issue: 2019-07-09

Test Result: Pass*



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 Rei						
01		2019-07-09		Original		

Authorized for issue by:		
	Heavy Ul	
	Harry Wu /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary

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

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass			
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass			
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass			
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	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	47 CFR Part 15, 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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			



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General Information

Details of E.U.T.

Power supply:	Earphone: DC 3.7V Rechargeable Batteries; Charging Case: DC3.7V rechargeable battery can be charged by Micro USB port
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Monopole
Antenna Gain:	0.09dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dediated rever	± 4.5dB (Below 1GHz)
/	RF Radiated power	± 4.8dB (Above 1GHz)
0	Dadiated Couries amission test	± 4.5dB (Below 1GHz)
8	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%



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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:

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

· 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

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. 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

Abnormalities from Standard Conditions

None



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Equipment List

Minimum 6dB Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12		
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24		
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31		
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2018-07-12	2019-07-11		
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24		

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	

Power Spectrum Density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	



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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	2024-06-12	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	

Conducted Spurious Emissions										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12					
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24					
Spectrum Analyzer	ectrum Analyzer Rohde & Schwarz		SEM004-08	2019-04-01	2020-03-31					
Measurement Software	nt Software JS Tonscend		N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM031-01	2018-07-12	2019-07-11					
Attenuator	Attenuator Weinschel Associates		SEM021-09	N/A	N/A					
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26					
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24					

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	2018-03-13	2021-03-12					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11					
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11					
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12					
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16					
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11					
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31					



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Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Spurious Emissions										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11					
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11					
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12					
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16					
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11					
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31					
Pre-amplifier (26GHz-40GHz) Compliance Directions Systems Inc.		PAP-2640-50	SEM005-08	2019-04-01	2020-03-31					
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24					
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21					

RE in Chamber						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04	
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24	
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26	
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31	
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11	



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General used equipmen Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator Mingle		N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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Radio Spectrum Technical Requirement 6

Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.09dBi.

Antenna location: Refer to Appendix(Internal photos)



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7 Radio Spectrum Matter Test Results

7.1 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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 43.7 % RH Atmospheric Pressure: 1000 mbar

Pretest these c:TX mode(Left Ear)_Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

the worst case: g:TX mode(Right Ear)_Keep the EUT in continuously transmitting mode with

GFSK modulation

The worst case c:TX mode(Left Ear) Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

7.1.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.2 Conducted Peak Output Power

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

Limit:

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



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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 43.7 % RH Atmospheric Pressure: 1000 mbar

Pretest these c:TX mode(Left Ear) Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

the worst case: g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

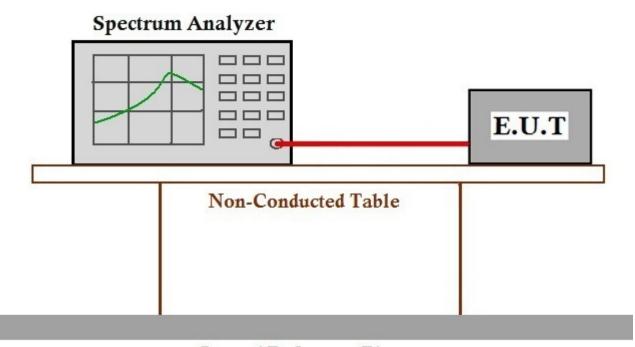
The worst case c:TX mode(Left Ear)_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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: 24.4 °C Humidity: 43.7 % RH Atmospheric Pressure: 1000 mbar

Pretest these c:TX mode(Left Ear) Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

the worst case: g:TX mode(Right Ear)_Keep the EUT in continuously transmitting mode with

GFSK modulation

The worst case c:TX mode(Left Ear)_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

7.3.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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)



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7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 43.7 % RH Atmospheric Pressure: 1000 mbar

Pretest these c:TX mode(Left Ear) Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

the worst case: g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

The worst case c:TX mode(Left Ear)_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

7.4.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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)



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7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 43.7 % RH Atmospheric Pressure: 1000 mbar

Pretest these c:TX mode(Left Ear) Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

the worst case: g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

The worst case c:TX mode(Left Ear)_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

7.5.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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.



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7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 72.3 % RH Atmospheric Pressure: 1000 mbar

c:TX mode(Left Ear) Keep the EUT in continuously transmitting mode with GFSK Pretest these

modulation modes to find

the worst case: g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

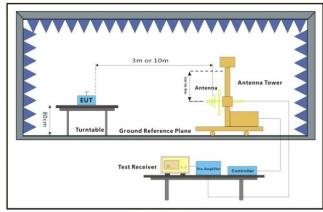
The worst case c:TX mode(Left Ear)_Keep the EUT in continuously transmitting mode with GFSK

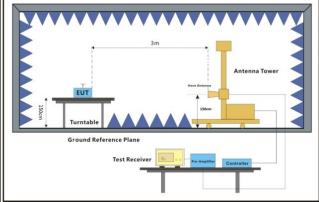
for final test: modulation

g:TX mode(Right Ear)_Keep the EUT in continuously transmitting mode with

GFSK modulation

7.6.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.6.3 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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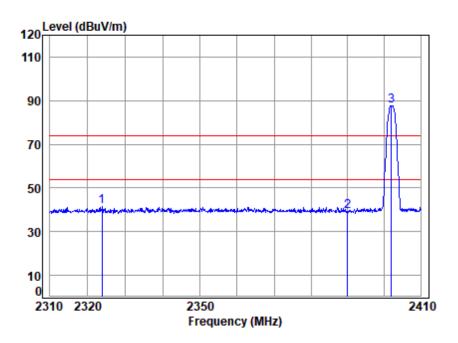


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For Left Ear:

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Mode : 2402 Band edge

Note : BLE

: Left

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dΒ dB 5.38 28.41 41.14 48.88 41.53 74.00 -32.47 peak 1 2323.845 2390.000 5.47 28.52 41.17 46.59 39.41 74.00 -34.59 peak 3 * 2402.000 5.49 28.54 41.18 94.68 87.53 74.00 13.53 peak



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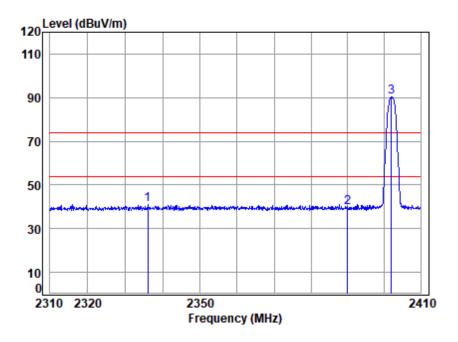
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No Mode : 2402 Band edge

Note : BLE

> 1 2 3

: Left

		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		
	2335.990	5.40	28.43	41.15	48.43	41.11	74.00	-32.89	peak	
2	2390.000	5.47	28.52	41.17	46.77	39.59	74.00	-34.41	peak	
*	2402.000	5.49	28.54	41.18	97.29	90.14	74.00	16.14	peak	



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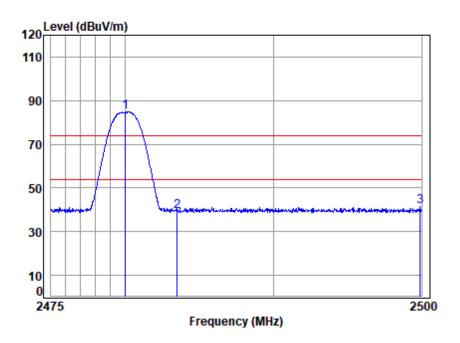
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR Mode : 2480 Band edge

Note : BLE

: Left

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dΒ dB 1 * 2480.000 5.59 28.67 41.21 91.66 84.71 74.00 10.71 peak 2 2483.500 5.60 28.67 41.21 46.31 39.37 74.00 -34.63 peak 3 2499.925 5.62 28.70 41.22 48.49 41.59 74.00 -32.41 peak



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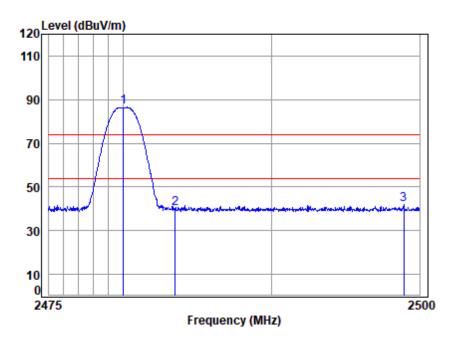
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No Mode : 2480 Band edge

: BLE Note

: Left

		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 *	2480.000	5.59	28.67	41.21	93.43	86.48	74.00	12.48	peak
2	2483.500	5.60	28.67	41.21	46.93	39.99	74.00	-34.01	peak
3	2498.920	5.62	28.70	41.22	48.91	42.01	74.00	-31.99	peak



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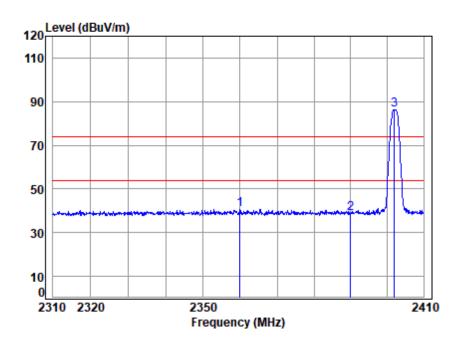


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For Right Ear:

Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



: chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No Mode : 2402 Band edge

Note : BLE

: Right

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2359.970								•
2	2390.000	5.47	28.52	41.17	45.85	38.67	74.00	-35.33	peak
3 *	2402.000	5.49	28.54	41.18	93.59	86.44	74.00	12.44	peak



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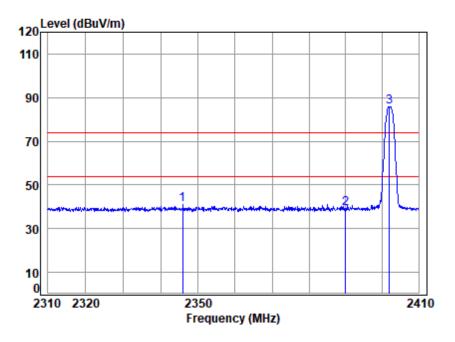
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 15211CR/15212CR Mode : 2402 Band edge

Note : BLE

: Right

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MII-					JD. 377	JD. A/ /		
	МПZ	ав	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	2345.910	5.41	28.44	41.15	48.31	41.01	74.00	-32.99	peak
2	2390.000	5.47	28.52	41.17	46.36	39.18	74.00	-34.82	peak
3 *	2402.000	5.49	28.54	41.18	92.93	85.78	74.00	11.78	peak



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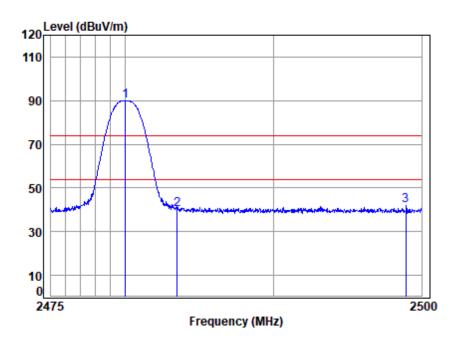
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No Mode : 2480 Band edge

Note : BLE

: Right

		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 *	2480.000	5.59	28.67	41.21	96.72	89.77	74.00	15.77	peak
2	2483.500	5.60	28.67	41.21	47.10	40.16	74.00	-33.84	peak
3	2498.945	5.62	28.70	41.22	48.68	41.78	74.00	-32.22	peak



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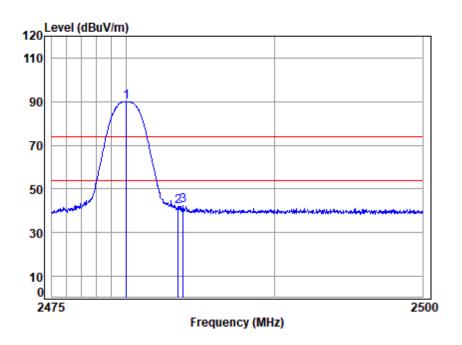
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No Mode : 2480 Band edge

Note : BLE

: Right

		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 *	2480.000	5.59	28.67	41.21	96.77	89.82	74.00	15.82	peak
2	2483.500	5.60	28.67	41.21	48.87	41.93	74.00	-32.07	peak
3	2483.821	5.60	28.67	41.21	49.56	42.62	74.00	-31.38	peak



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7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

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

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



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7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

c:TX mode(Left Ear) Keep the EUT in continuously transmitting mode with GFSK Pretest these

modulation modes to find

the worst case: g:TX mode(Right Ear) Keep the EUT in continuously transmitting mode with

GFSK modulation

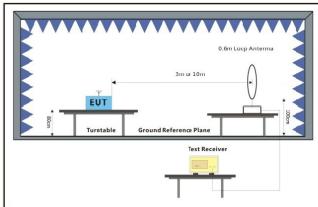
The worst case c:TX mode(Left Ear)_Keep the EUT in continuously transmitting mode with GFSK

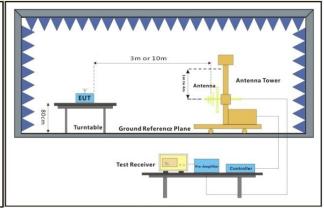
for final test: modulation

g:TX mode(Right Ear)_Keep the EUT in continuously transmitting mode with

GFSK modulation

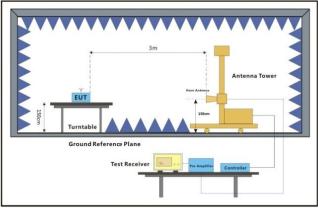
7.7.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.7.3 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) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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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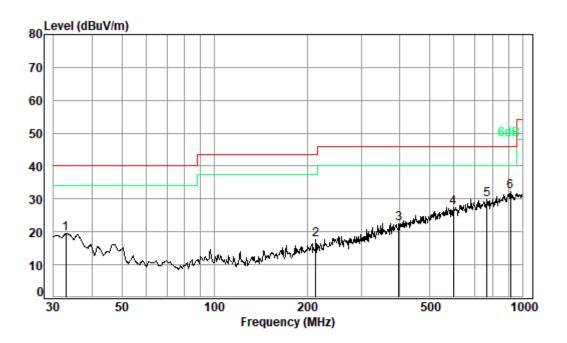


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For Left Ear: 30MHz~1GHz QP value:

Mode: c; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 15211CR

Test mode: c

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.86	0.60	20.92	27.72	25.72	19.52	40.00	-20.48
2	213.02	1.48	16.96	27.12	26.34	17.66	43.50	-25.84
3	397.63	2.19	22.34	27.41	25.30	22.42	46.00	-23.58
4	597.22	2.70	26.55	28.16	26.33	27.42	46.00	-18.58
5	766.06	3.11	28.31	27.79	26.06	29.69	46.00	-16.31
6 pp	916.07	3.62	29.88	27.23	26.02	32.29	46.00	-13.71



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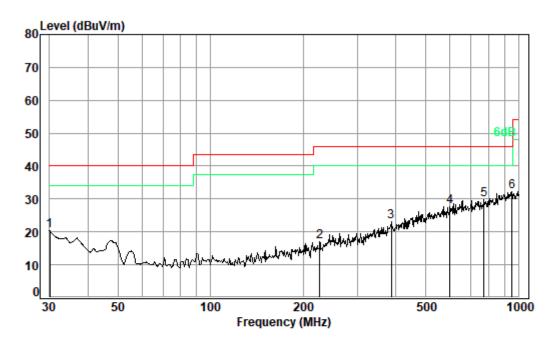
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Mode :c; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 15211CR

Test mode: c

			Ant Preamp Factor Factor					Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	24.96	20.27	40.00	-19.73
2	226.10	1.55	17.70	27.08	24.86	17.03	46.00	-28.97
3	386.63	2.16	22.07	27.36	26.28	23.15	46.00	-22.85
4	599.32	2.70	26.59	28.17	26.43	27.55	46.00	-18.45
5	774.16	3.13	28.35	27.77	25.97	29.68	46.00	-16.32
6 pp	952.09	3.65	30.07	27.09	25.76	32.39	46.00	-13.61



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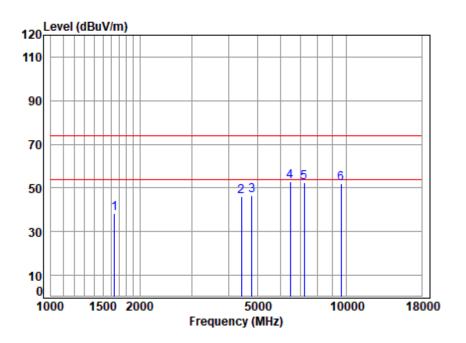


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Above 1GHz

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR

Mode : 2402 TX RSE

Note : BLE

: Left

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	5.30	26.44	40.80	47.37	38.31	74.00	-35.69	peak
2	4417.841	7.47	33.60	43.22	48.08	45.93	74.00	-28.07	peak
3	4804.000	7.89	34.16	43.61	48.21	46.65	74.00	-27.35	peak
4	6470.026	11.48	35.08	42.43	48.98	53.11	74.00	-20.89	peak
5	7206.000	10.08	36.42	41.86	47.98	52.62	74.00	-21.38	peak
6	9608.000	10.75	37.52	38.43	42.12	51.96	74.00	-22.04	peak



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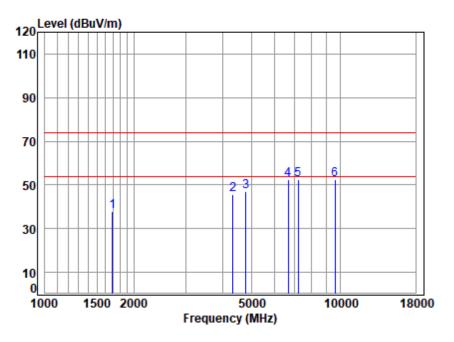
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 15211CR/15212CR

Mode : 2402 TX RSE

Note : BLE

: Left

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1692.231 5.24 26.64 40.83 46.88 37.93 74.00 -36.07 peak 1 2 4329.354 7.37 33.60 43.12 47.98 45.83 74.00 -28.17 peak 3 7.89 34.16 43.61 48.64 47.08 74.00 -26.92 peak 4804.000 4 6659.763 11.08 35.56 42.28 48.22 52.58 74.00 -21.42 peak 5 7206.000 10.08 36.42 41.86 47.92 52.56 74.00 -21.44 peak 9608.000 10.75 37.52 38.43 42.45 52.29 74.00 -21.71 peak



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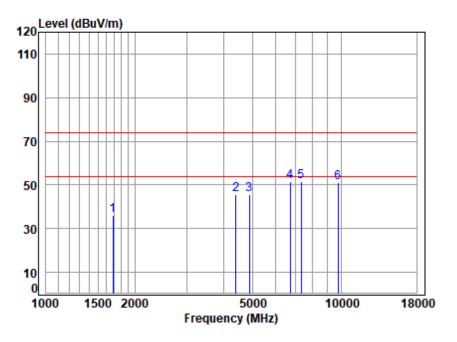
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR

Mode : 2440 TX RSE

Note : BLE

: Left

. Leic										
		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	5 24	26 62	40 82	44 86	35 90	74 00	-38 10	neak	
2	4405.090								•	
									•	
3	4880.000	7.97	34.29	43.69	46.89	45.46	74.00	-28.54	peak	
4	6717.762	10.91	35.72	42.23	47.11	51.51	74.00	-22.49	peak	
5	7320.000	10.05	36.37	41.77	46.80	51.45	74.00	-22.55	peak	
6	9760.000	10.82	37.55	38.18	41.09	51.28	74.00	-22.72	peak	



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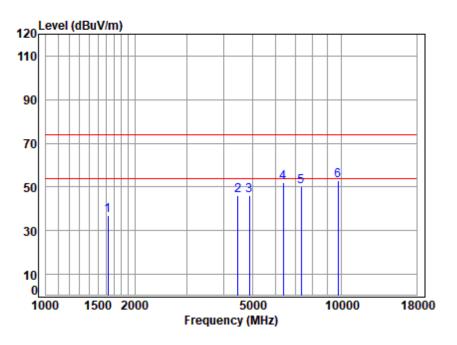
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 15211CR/15212CR

Mode : 2440 TX RSE

Note : BLE

: Left

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	5.32	26.36	40.79	46.27	37.16	74.00	-36.84	peak
2	4469.214	7.53	33.60	43.27	48.03	45.89	74.00	-28.11	peak
3	4880.000	7.97	34.29	43.69	47.43	46.00	74.00	-28.00	peak
4	6377.195	11.31	35.00	42.51	48.41	52.21	74.00	-21.79	peak
5	7320.000	10.05	36.37	41.77	45.45	50.10	74.00	-23.90	peak
6	9760.000	10.82	37.55	38.18	42.85	53.04	74.00	-20.96	peak



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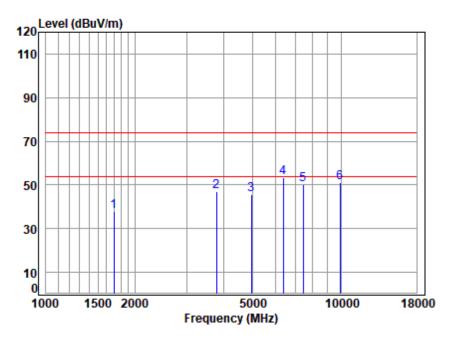
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR

Mode : 2480 TX RSE

Note : BLE

: Left

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	40.83	46.81	37.87	74.00	-36.13	peak
2	3779.422	6.76	33.01	42.49	49.83	47.11	74.00	-26.89	peak
3	4960.000	8.05	34.43	43.76	47.02	45.74	74.00	-28.26	peak
4	6377.195	11.31	35.00	42.51	49.59	53.39	74.00	-20.61	peak
5	7440.000	10.02	36.32	41.69	45.35	50.00	74.00	-24.00	peak
6	9920.000	10.90	37.58	37.93	40.65	51.20	74.00	-22.80	peak



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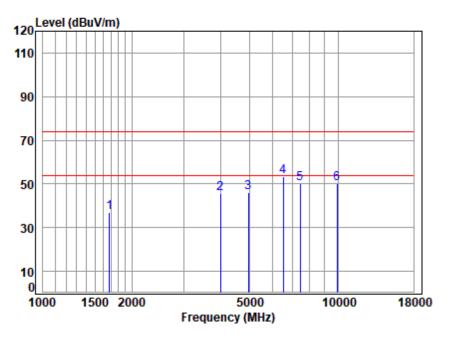
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 15211CR/15212CR

Mode : 2480 TX RSE

Note : BLE

: Left

		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	1677.621	5.25	26.58	40.82	46.01	37.02	74.00	-36.98	peak
2	3992.781	6.97	33.58	42.74	47.88	45.69	74.00	-28.31	peak
3	4960.000	8.05	34.43	43.76	47.28	46.00	74.00	-28.00	peak
4	6526.373	11.46	35.18	42.38	48.94	53.20	74.00	-20.80	peak
5	7440.000	10.02	36.32	41.69	45.62	50.27	74.00	-23.73	peak
	9920.000	10.90	37.58	37.93	39.81	50.36	74.00	-23.64	peak



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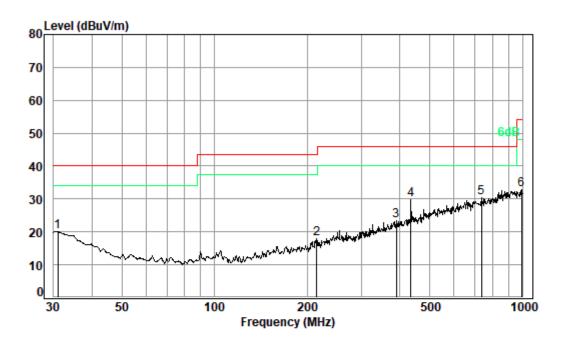


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For Right Ear: 30MHz~1GHz QP value:

Mode: g; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 15211CR

Test mode: g

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	21.95	27.73	25.29	20.11	40.00	-19.89
2	214.51	1.49	17.01	27.12	26.51	17.89	43.50	-25.61
3	389.35	2.17	22.14	27.37	26.41	23.35	46.00	-22.65
4	434.07	2.35	23.21	27.57	31.71	29.70	46.00	-16.30
5 pp	737.07	3.02	28.13	27.85	27.06	30.36	46.00	-15.64
6	993.01	3.69	30.27	26.94	25.71	32.73	54.00	-21.27



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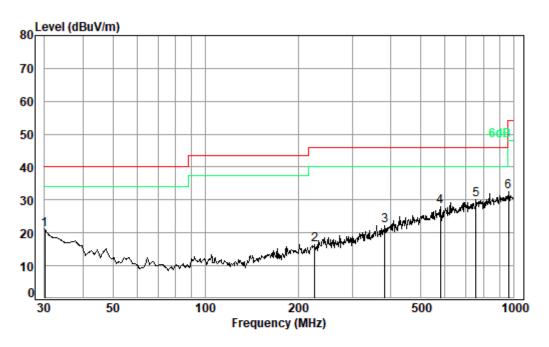
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Mode:g; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 15211CR

Test mode: g

	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	25.66	20.97	40.00	-19.03
2	226.10	1.55	17.70	27.08	24.17	16.34	46.00	-29.66
3	382.59	2.15	21.97	27.34	25.42	22.20	46.00	-23.80
4	578.67	2.68	26.20	28.10	27.30	28.08	46.00	-17.92
5 pp	755.39	3.07	28.24	27.81	26.65	30.15	46.00	-15.85
6	965.54	3.67	30.13	27.04	25.75	32.51	54.00	-21.49



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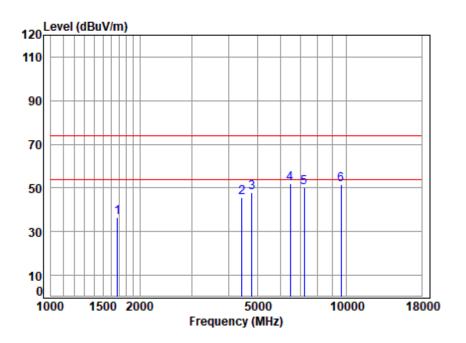


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Above 1GHz

Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR

Mode : 2402 TX RSE

Note : BLE

: Right

	`	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	1677.621	5.25	26.58	40.82	45.48	36.49	74.00	-37.51	neak
2	4443.453								•
3	4804.000								•
4	6470.026	11.48	35.08	42.43	47.96	52.09	74.00	-21.91	peak
5	7206.000	10.08	36.42	41.86	45.66	50.30	74.00	-23.70	peak
6	9608.000	10.75	37.52	38.43	41.72	51.56	74.00	-22.44	peak



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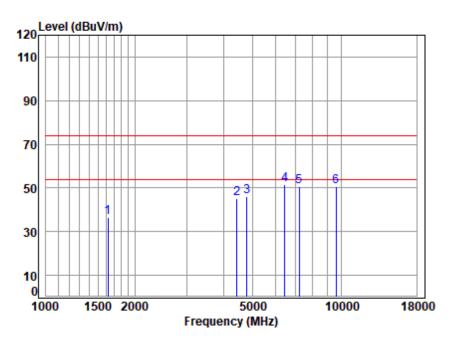
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 15211CR/15212CR

Mode : 2402 TX RSE

Note : BLE

: Right

	`	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	1620.431	5.32	26.34	40.78	45.50	36.38	74.00	-37.62	peak
2	4430.628	7.48	33.60	43.23	47.18	45.03	74.00	-28.97	peak
3	4804.000	7.89	34.16	43.61	47.49	45.93	74.00	-28.07	peak
4	6451.353	11.45	35.06	42.44	47.49	51.56	74.00	-22.44	peak
5	7206.000	10.08	36.42	41.86	46.02	50.66	74.00	-23.34	peak
6	9608.000	10.75	37.52	38.43	40.59	50.43	74.00	-23.57	peak



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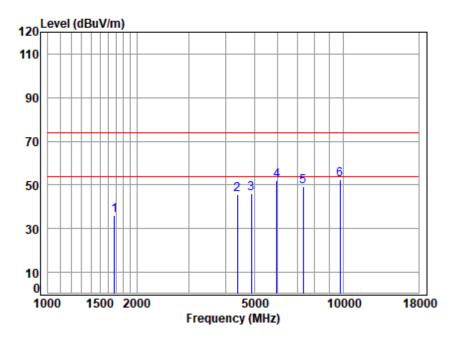
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR

Mode : 2440 TX RSE

Note : BLE

: Right

	`	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	
	4602 477	F 25	26.60	40.00	45 00	36.05	74.00	37.05	
1	1682.477	5.25	26.60	40.82	45.02	36.05	74.00	-37.95	реак
2	4392.376	7.44	33.60	43.19	47.78	45.63	74.00	-28.37	peak
3	4880.000	7.97	34.29	43.69	47.67	46.24	74.00	-27.76	peak
4	5949.811	10.40	34.67	42.87	50.04	52.24	74.00	-21.76	peak
5	7320.000	10.05	36.37	41.77	44.56	49.21	74.00	-24.79	peak
6	9760.000	10.82	37.55	38.18	42.09	52.28	74.00	-21.72	peak



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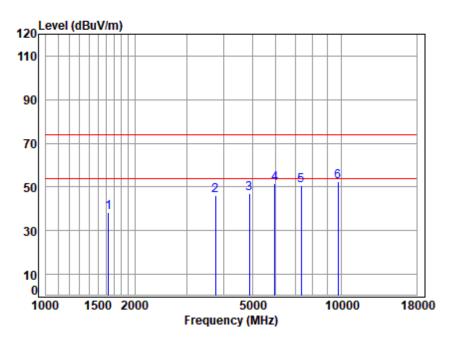
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 15211CR/15212CR

Mode : 2440 TX RSE

Note : BLE

: Right

	. 111	5116							
		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	1629.825	5.31	26.38	40.79	47.36	38.26	74.00	-35.74	peak
2	3757.637	6.74	32.94	42.46	48.68	45.90	74.00	-28.10	peak
3	4880.000	7.97	34.29	43.69	48.56	47.13	74.00	-26.87	peak
4	5967.033	10.46	34.68	42.86	49.11	51.39	74.00	-22.61	peak
5	7320.000	10.05	36.37	41.77	46.02	50.67	74.00	-23.33	peak
6	9760.000	10.82	37.55	38.18	42.18	52.37	74.00	-21.63	peak



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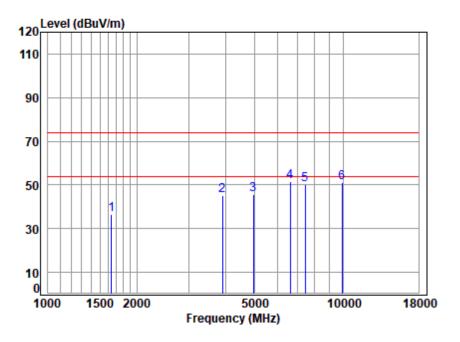
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR

Mode : 2480 TX RSE

Note : BLE

: Right

	`	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 274	F 30	26 42	40.70	45 43	26.26	74.00	27.64	
1	1639.274	5.30	26.42	40.79	45.43	36.36	74.00	-3/.64	реак
2	3901.516	6.88	33.34	42.63	47.79	45.38	74.00	-28.62	peak
3	4960.000	8.05	34.43	43.76	47.00	45.72	74.00	-28.28	peak
4	6621.375	11.19	35.45	42.31	47.18	51.51	74.00	-22.49	peak
5	7440.000	10.02	36.32	41.69	45.55	50.20	74.00	-23.80	peak
6	9920.000	10.90	37.58	37.93	40.78	51.33	74.00	-22.67	peak



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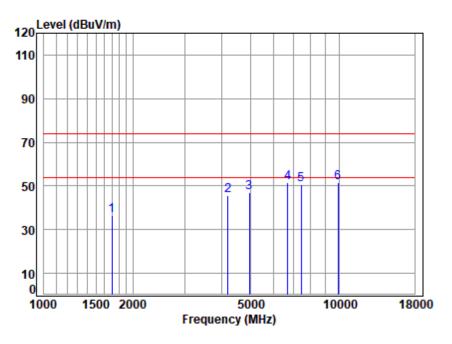
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 15211CR/15212CR

Mode : 2480 TX RSE

Note : BLE

: Right

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	40.83	45.61	36.69	74.00	-37.31	peak
2	4206.011	7.23	33.60	42.99	47.79	45.63	74.00	-28.37	peak
3	4960.000	8.05	34.43	43.76	48.08	46.80	74.00	-27.20	peak
4	6698.373	10.97	35.67	42.24	47.27	51.67	74.00	-22.33	peak
5	7440.000	10.02	36.32	41.69	46.06	50.71	74.00	-23.29	peak
6	9920.000	10.90	37.58	37.93	41.06	51.61	74.00	-22.39	peak



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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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Appendix 9

Appendix 15.247

Appendix 15.247-Left Ear

1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict	
BLE	2402	Ant1	0.669	>=0.5	PASS	
BLE	2440	Ant1	0.666	>=0.5	PASS	
BLE	2480	Ant1	0.669	>=0.5	PASS	



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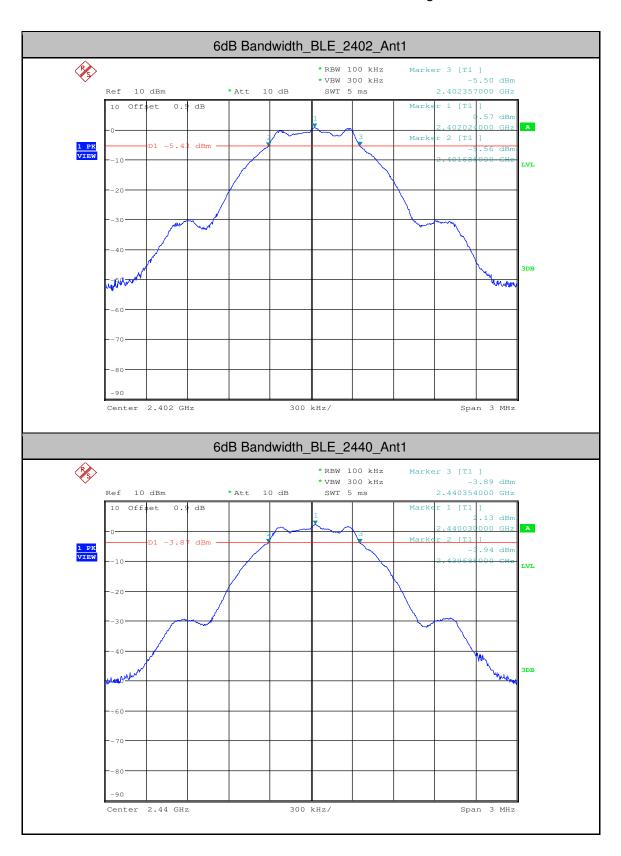
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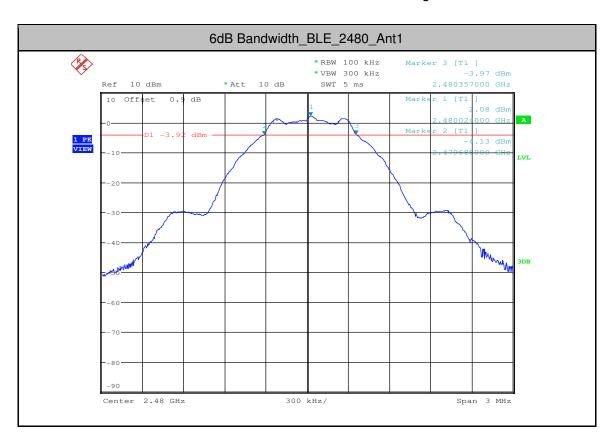
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2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	1.49	<30	PASS
BLE	2440	Ant1	3.06	<30	PASS
BLE	2480	Ant1	2.99	<30	PASS



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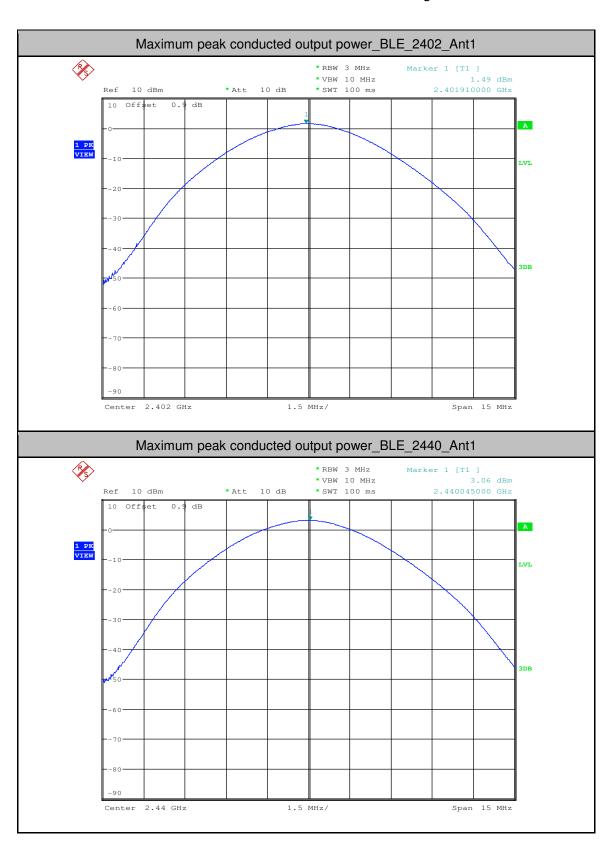
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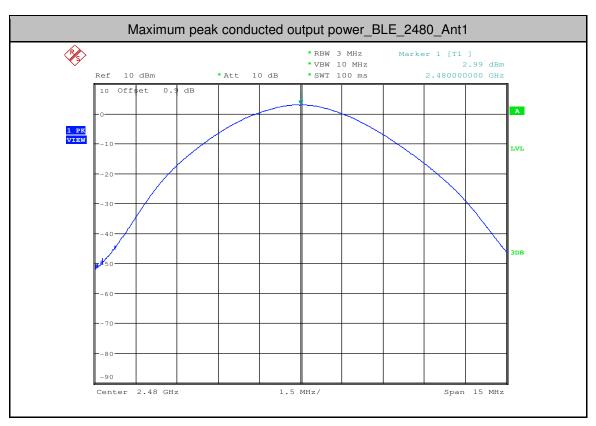
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3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-15.56	<8.00	PASS
BLE	2440	Ant1	-12.83	<8.00	PASS
BLE	2480	Ant1	-14.01	<8.00	PASS



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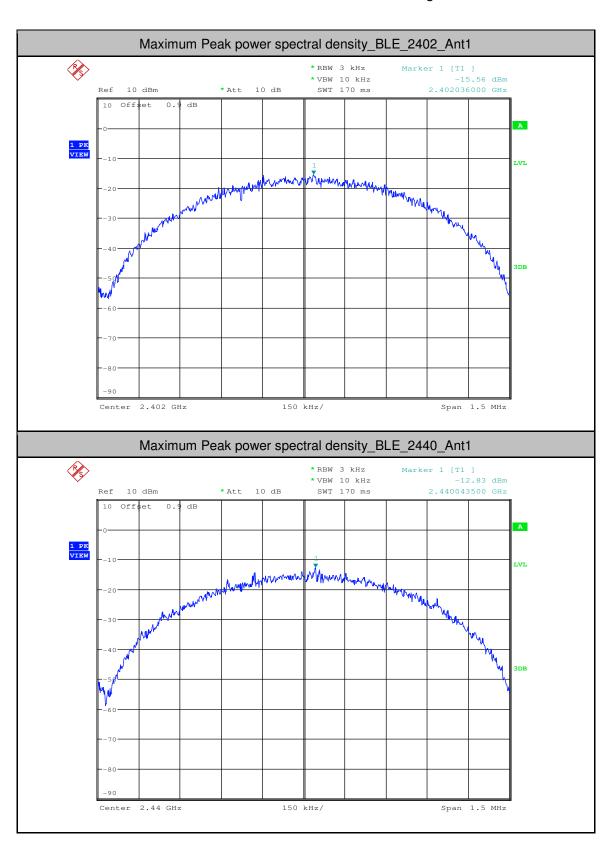
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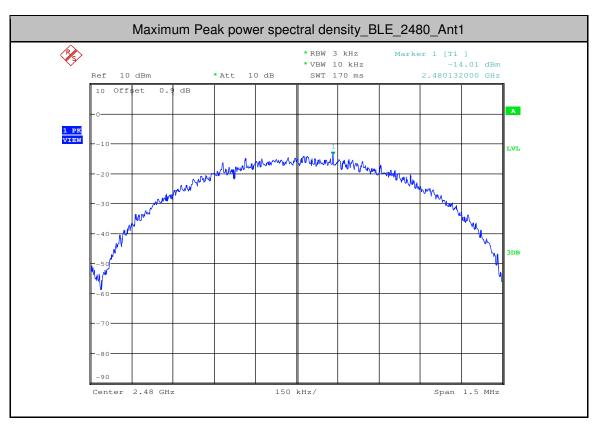
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4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-0.380	-62.819	<-20.38	PASS
BLE	2480	Ant1	2.050	-60.903	<-17.95	PASS



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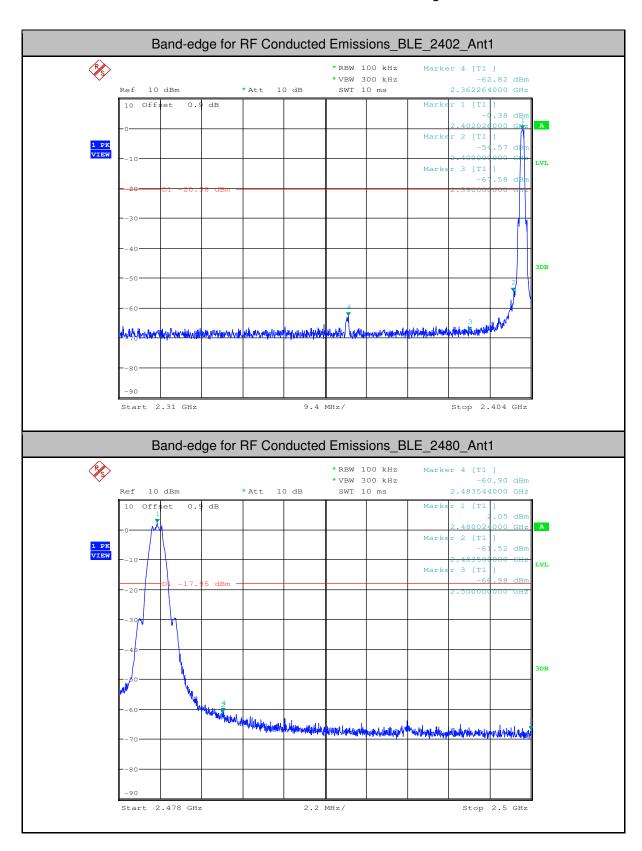
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5.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	1000	3000	0.72	-48.190	<-19.28	PASS
BLE	2402	10000	25000	1000	3000	0.72	-54.670	<-19.28	PASS
BLE	2440	30	10000	1000	3000	2.04	-49.520	<-17.96	PASS
BLE	2440	10000	25000	1000	3000	2.04	-54.660	<-17.96	PASS
BLE	2480	30	10000	1000	3000	1.91	-49.840	<-18.09	PASS
BLE	2480	10000	25000	1000	3000	1.91	-54.820	<-18.09	PASS



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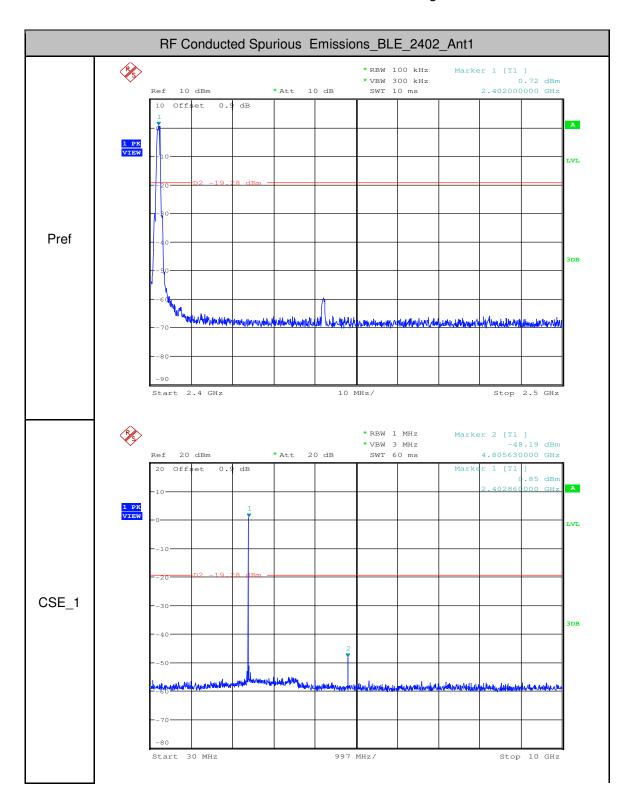
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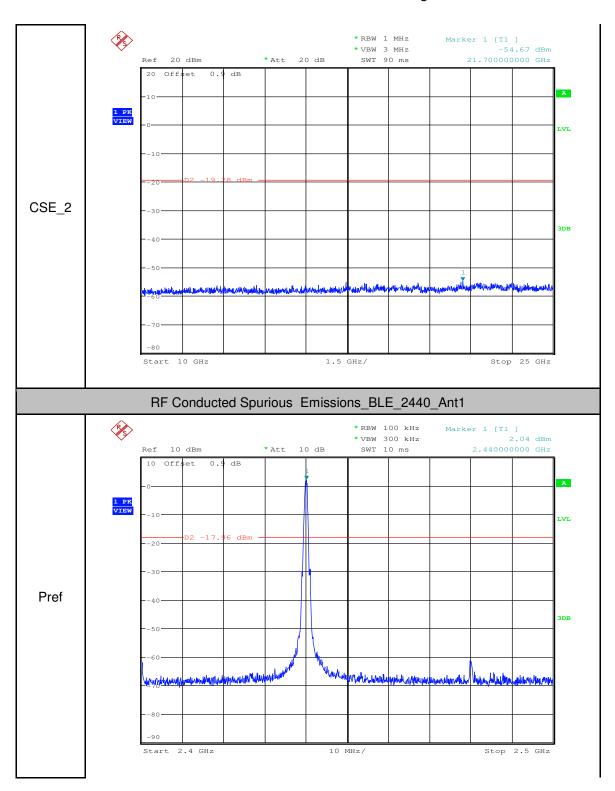
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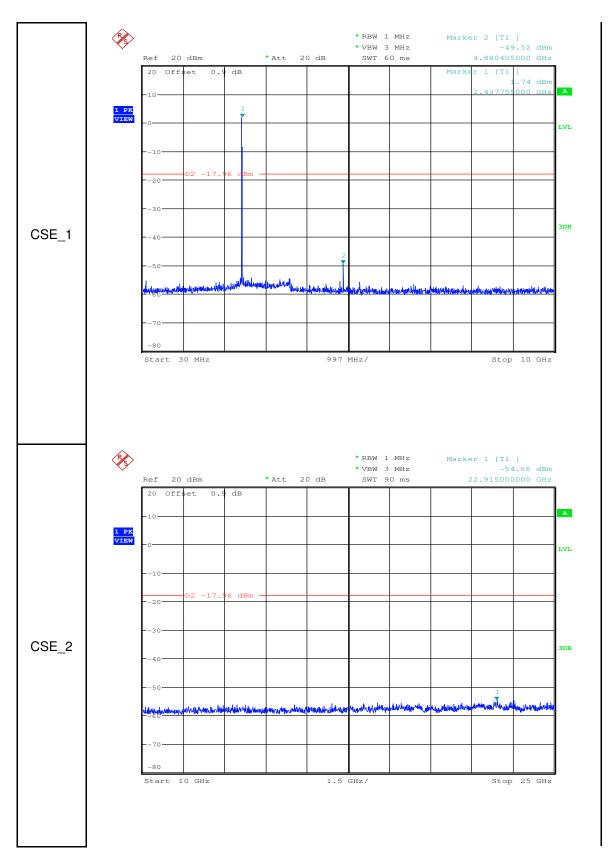
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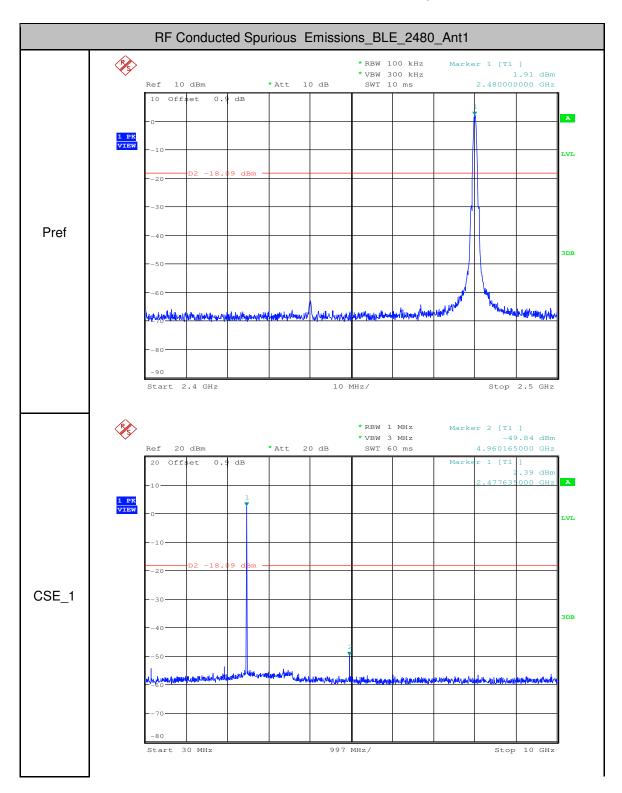
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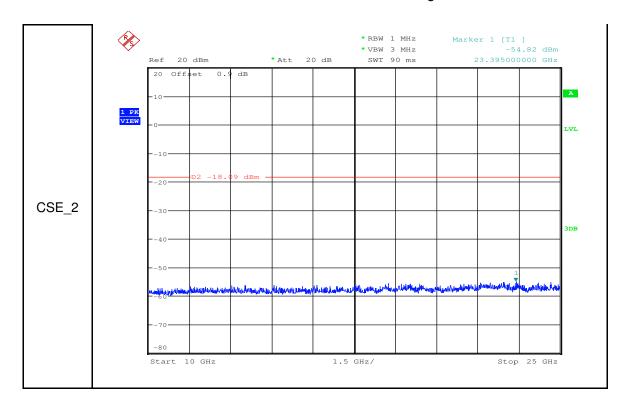
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Appendix 15.247-Right Ear

1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	0.666	>=0.5	PASS
BLE	2440	Ant1	0.666	>=0.5	PASS
BLE	2480	Ant1	0.669	>=0.5	PASS



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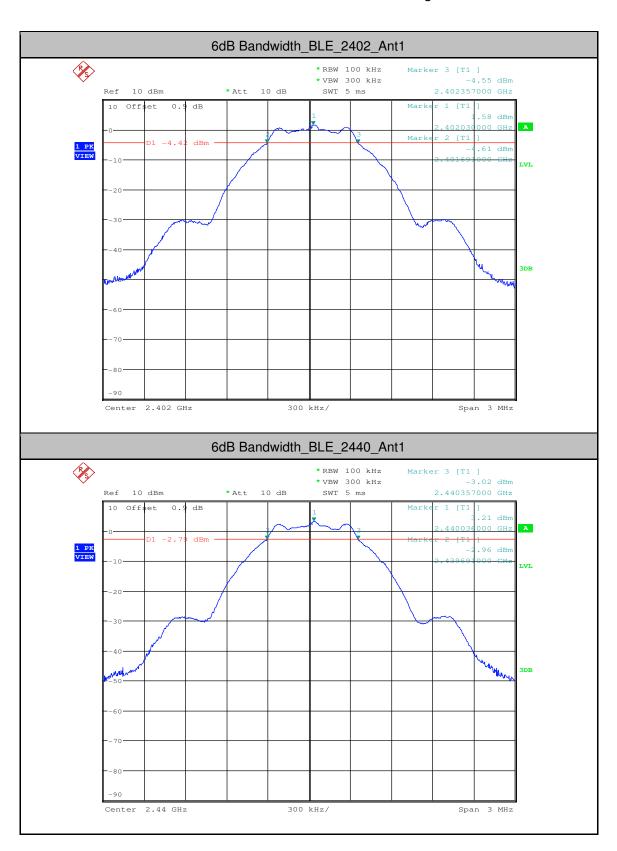
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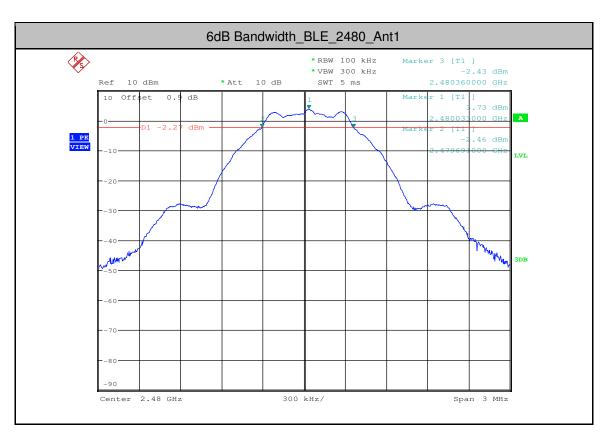
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2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	2.62	<30	PASS
BLE	2440	Ant1	4.24	<30	PASS
BLE	2480	Ant1	4.75	<30	PASS



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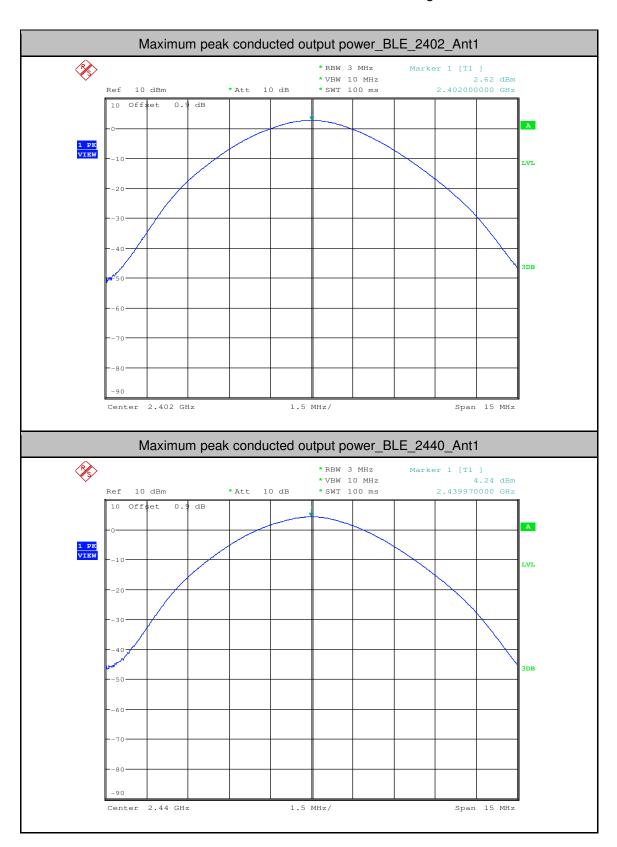
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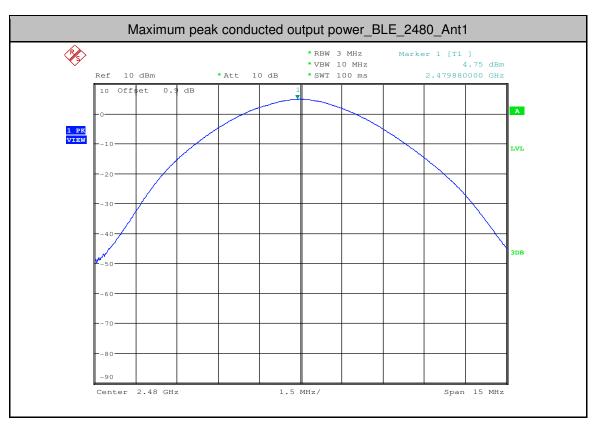
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3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-13.68	<8.00	PASS
BLE	2440	Ant1	-11.34	<8.00	PASS
BLE	2480	Ant1	-12.15	<8.00	PASS



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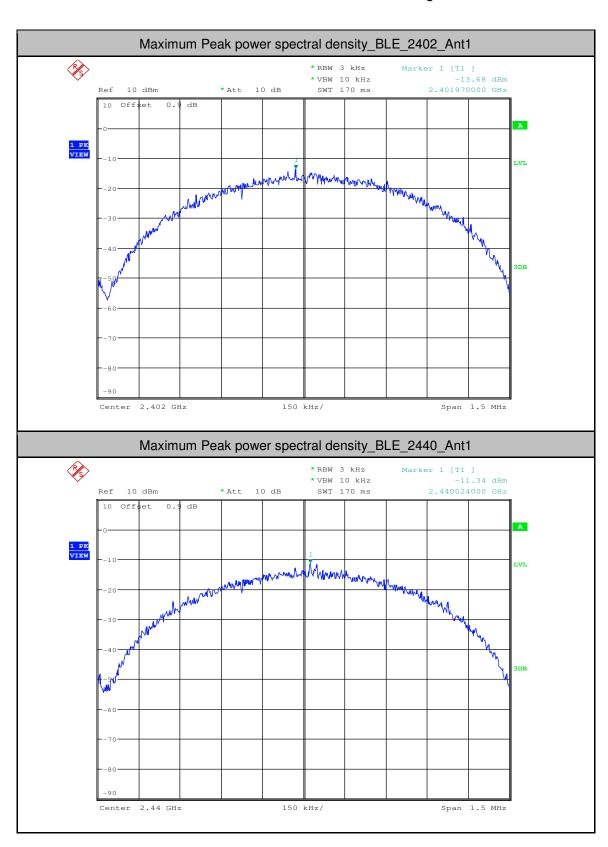
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4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	1.650	-63.359	<-18.35	PASS
BLE	2480	Ant1	3.520	-60.987	<-16.48	PASS



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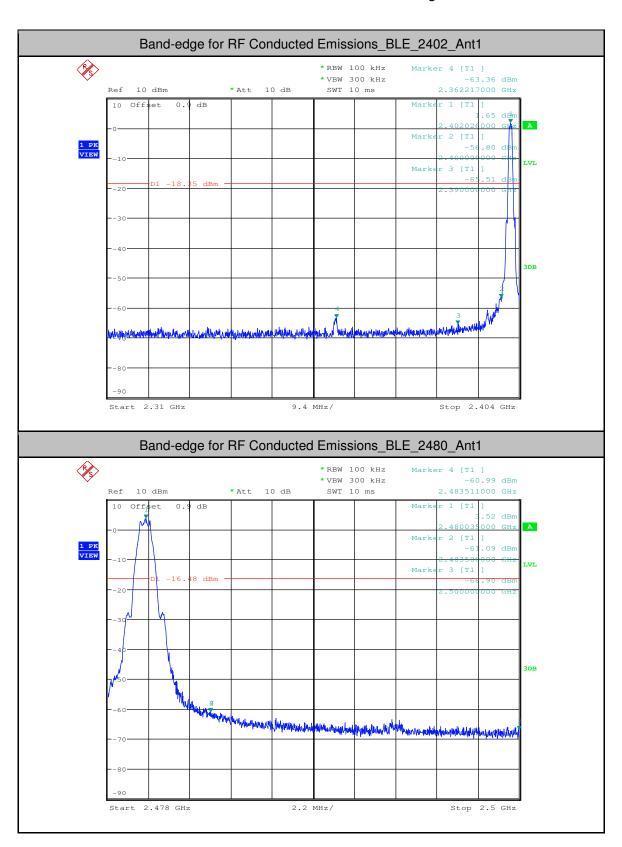
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5.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	1000	3000	1.51	-55.000	<-18.49	PASS
BLE	2402	10000	25000	1000	3000	1.51	-54.900	<-18.49	PASS
BLE	2440	30	10000	1000	3000	2.31	-53.460	<-17.69	PASS
BLE	2440	10000	25000	1000	3000	2.31	-54.820	<-17.69	PASS
BLE	2480	30	10000	1000	3000	3.84	-52.800	<-16.16	PASS
BLE	2480	10000	25000	1000	3000	3.84	-54.650	<-16.16	PASS



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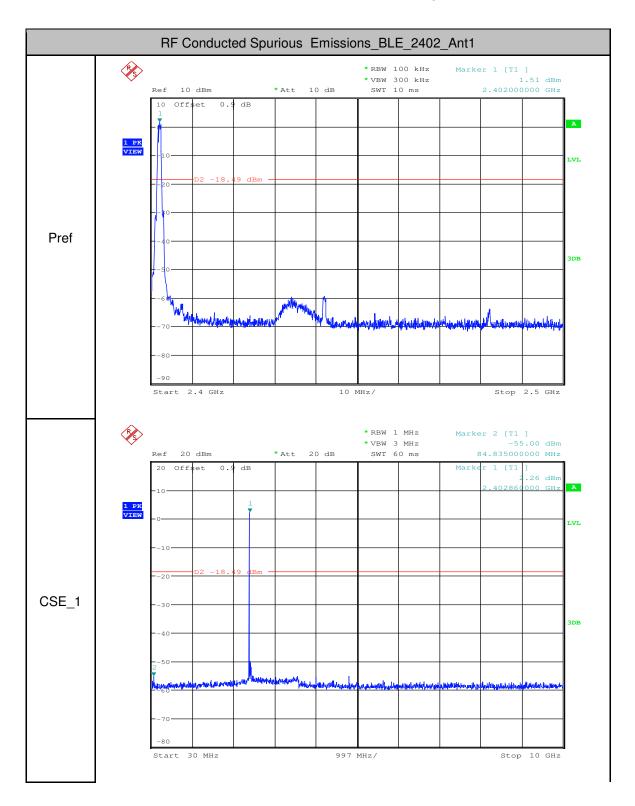
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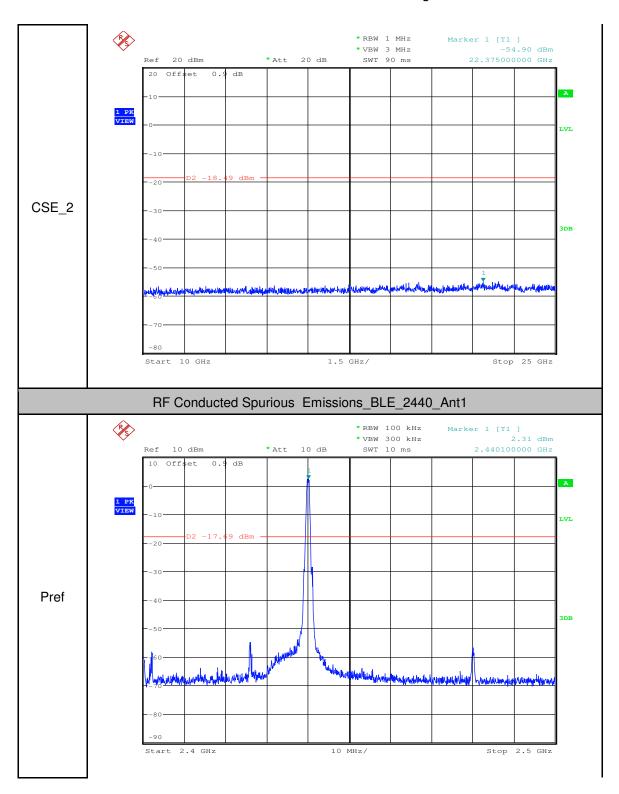
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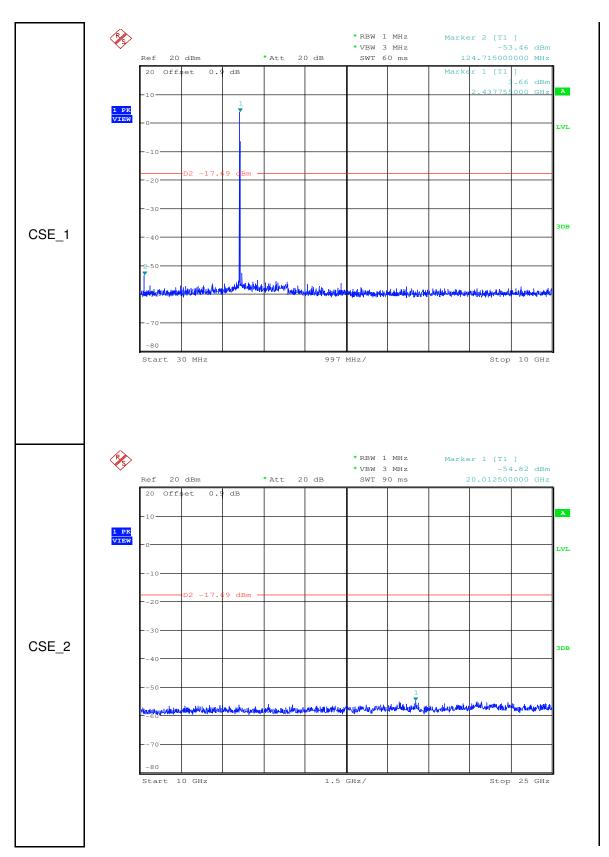
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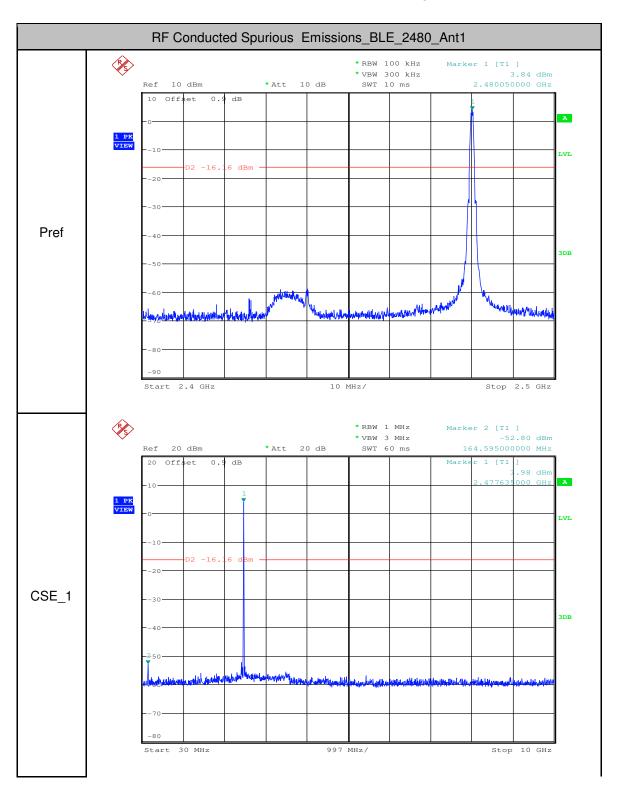
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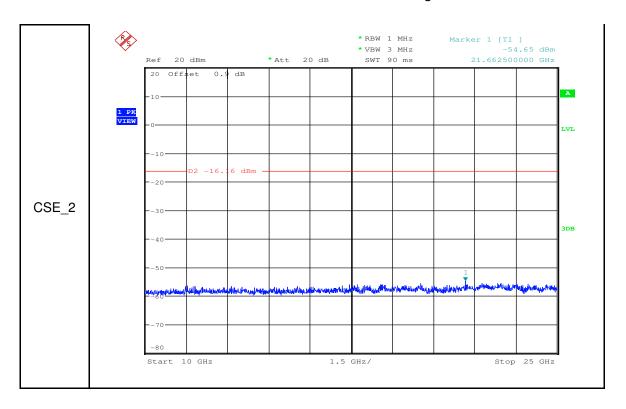
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