

Report No.: SZEM191202137603

Page: 1 of 145

# TEST REPORT

**Application No.:** SZEM1912021376CR 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:** Push Ultra Model No.: S2BDW Trade mark:

Skullcandy

FCC ID: Y22-S2BDW

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

2019-12-18 **Date of Receipt:** 

**Date of Test:** 2020-01-07 to 2020-03-05

2020-04-10 Date of Issue:

Test Result: Pass\*

**EMC Laboratory Manager** 

Ceny. Ku



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



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	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2020-04-10		Original			

Authorized for issue by:		
	Bonson Wang	
	Benson Wang /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	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Bandwidth	Subpart C 15.247	Section 11.8.1	C 15.247a(2)				
Conducted Peak	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Output Power	Subpart C 15.247	Section 11.9.1	C 15.247(b)(3)				
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	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Edges Measurement	Subpart C 15.247	Section 11.13.3.2	C 15.247(d)				
Conducted Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Emissions	Subpart C 15.247	Section 11.11	C 15.247(d)				
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	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass			
Emissions	Subpart C 15.247	Section 6.4,6.5,6.6	C 15.205 & 15.209				



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### **General Information**

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

Power Supply:	Left earbuds: Li-lon Polymer Battery 3.7V 50mAh (Charge by travel case)		
	Right earbuds: Li-Ion Polymer Battery 3.7V 50mAh (Charge by travel case)		
	travel case with backup battery: Li-Ion Polymer Battery 3.7V 700mAh (Charged by type-C port or wireless charging pad)		
Cable:	Type-c cable: 26.5cm unshielded		
Bluetooth Version:	V5.0 Dual mode		
Data Rate:	Support 1M/bit and 2M/bit of BLE		
Operation Frequency:	2402MHz to 2480MHz		
Modulation Type:	GFSK		
Number of Channels:	40		
Channel Spacing:	2MHz		
Antenna Type:	Integral Antenna		
Antenna Gain:	Left earbuds: 1.33dBi; Right earbuds: 0.64dBi		

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

Item	Measurement Uncertainty
Radio Frequency	± 7.25 x 10 <sup>-8</sup>
RF conducted power	± 0.75dB
RF power density	± 2.84dB
Conducted Spurious emissions	± 0.75dB
DE Dadiated power	± 4.5dB (Below 1GHz)
RF Radiated power	± 4.8dB (Above 1GHz)
Dedicted Courieus emission test	± 4.5dB (Below 1GHz)
Radiated Spurious emission test	± 4.8dB (Above 1GHz)
Temperature test	± 1 ℃
Humidity test	± 3%
Supply voltages	± 1.5%
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:

#### 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.

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

None

### 4.7 Abnormalities from Standard Conditions

None



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#### **Equipment List** 5

Minimum 6dB Bandwidth						
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	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20	
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07	

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	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20	
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07	

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	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	



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Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Conducted Band Edges	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	2020-03-24	2021-03-23					
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23					
Measurement Software JS Tonscend		JS1120-2 BT/WIFI V2.	N/A	N/A	N/A					
Coaxial Cable	Coaxial Cable SGS		SEM031-02	2019-07-11	2020-07-10					
Attenuator	Attenuator Weinschel Associates		SEM021-09	N/A	N/A					
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23					
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23					
Electric and Magnetic Field Analyzer Narda		EHP-50F	SEM022-05	2019-11-28	2020-11-27					
Electric Field Probe	ectric Field Probe WANDEL & GOLTERMANN		EMC0907	2019-05-21	2020-05-20					
EMF Tester	EMF Tester Narda		SZE039-4	2019-07-08	2020-07-07					

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	2020-03-24	2021-03-23				
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23				
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10				
Attenuator	Attenuator Weinschel Associates		SEM021-09	N/A	N/A				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23				
Power Meter	Power Meter Rohde & Schwarz		SEM014-02	2019-09-24	2020-09-23				
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27				



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Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20	
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07	

Radiated Emissions and 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	2019-07-11	2020-07-10					
EXA Spectrum Analyzer AgilentTechnologie		N9010A	SEM004-12	2019-04-12	2020-04-11					
Horn Antenna Rohde & Schwarz		HF907	SEM003-07	2018-04-13	2021-04-12					
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16					
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23					
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31					
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31					
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23					
Active Loop Antenna ETS-Lindg		6502	SEM003-08	2017-08-22	2020-08-21					

Radiated Emissions (30MHz-1GHz)									
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				
Measurement Software AUDIX		e3 V8.2014-6- 27 N/A		N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10				
MXE EMI receiver	MXE EMI receiver KEYSIGHT		SEM004-15	2019-12-16	2020-12-15				
BiConiLog Antenna	BiConiLog Antenna ETS-LINDGREN		SEM003-01	2017-06-27	2020-06-26				
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31				



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General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological ZJ1-2B Industry Factory		SEM002-03	2019-09-26	2020-09-25			
Humidity/ Temperature Indicator	, i Meteorological		SEM002-04	2019-09-26	2020-09-25			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06			



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#### 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

#### Standard Requirement:

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

#### 15.247(b) (4) requirement:

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

#### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds: 1.33dBi; Right earbuds: 0.64dBi.

Antenna location: Refer to internal photo.



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#### 7 **Radio Spectrum Matter Test Results**

### 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: Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these d:TX mode(Left earbuds 1M/bit of BLE)\_Keep the EUT in continuously

modes to find transmitting mode with GFSK modulation.

the worst case: i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation

The worst case for final test:

d:TX mode(Left earbuds 1M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation.

i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation



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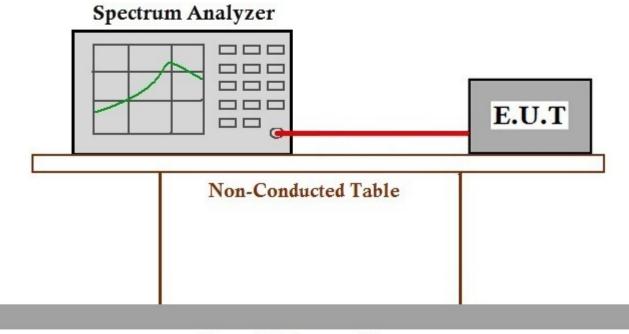
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### 7.1.2 Test Setup Diagram



### 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) ANSI C63.10 (2013) Section 11.9.1 Test Method:

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					

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C 45.9 % RH Atmospheric Pressure: 1020 mbar Humidity:

Pretest these d:TX mode(Left earbuds 1M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation. modes to find

the worst case: i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation

The worst case d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously

for final test: transmitting mode with GFSK modulation.

i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation



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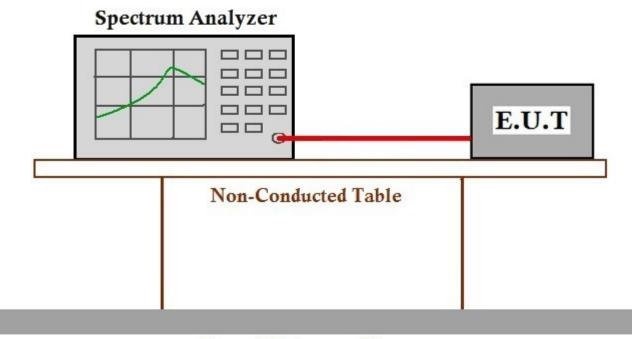
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### 7.2.2 Test Setup Diagram



### 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: Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously Pretest these

modes to find transmitting mode with GFSK modulation.

the worst case: i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation

The worst case for final test:

d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation



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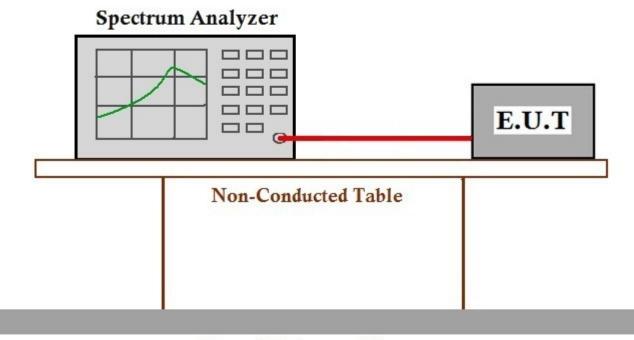
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### 7.3.2 Test Setup Diagram



### 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)

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously modes to find

transmitting mode with GFSK modulation.

the worst case: i:TX mode(Right earbuds 1M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation

The worst case for final test:

d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

i:TX mode(Right earbuds 1M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE)\_Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation



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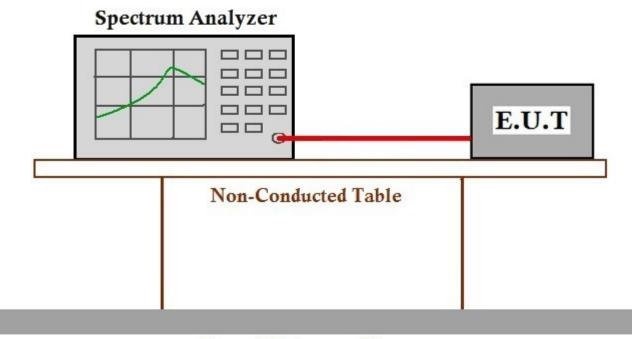
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### 7.4.2 Test Setup Diagram



### Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

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)

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 27.7 °C Atmospheric Pressure: 1020 mbar Humidity: 45.9 % RH

Pretest these modes to find

d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

the worst case: i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE)\_Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation

The worst case for final test:

d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation



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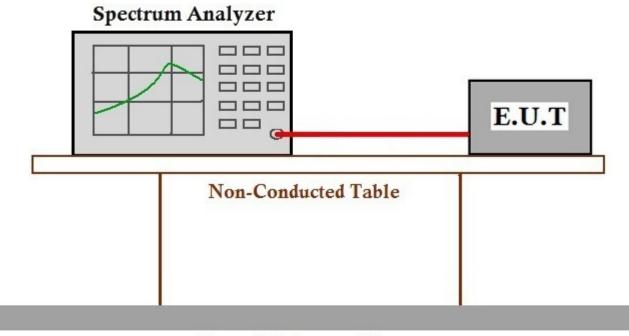
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### 7.5.2 Test Setup Diagram



### 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

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

Measurement Distance: 3m

Limit:

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

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



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### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Atmospheric Pressure: 1020 mbar Humidity: 56.3 % RH

Pretest these d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously

modes to find transmitting mode with GFSK modulation.

the worst case: i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE)\_Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation

The worst case d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously for final test:

transmitting mode with GFSK modulation.

i:TX mode(Right earbuds 1M/bit of BLE)\_Keep the EUT in continuously transmitting mode with GFSK modulation.

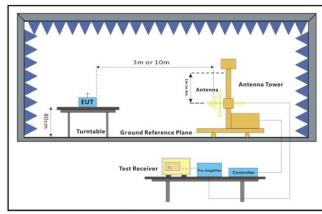
j:TX mode(Left earbuds 2M/bit of BLE)\_Keep the EUT in continuously transmitting

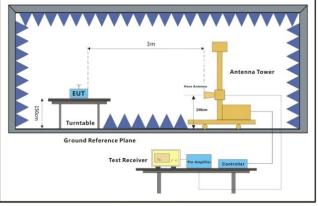
mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation

### 7.6.2 Test Setup Diagram





Above 1GHz 30MHz-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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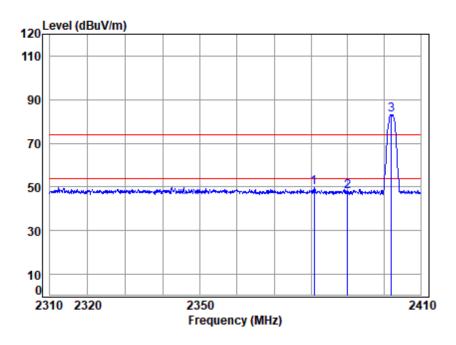
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Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2380.865	3.75	28.50	40.97	58.68	49.96	74.00	-24.04	peak
2	2390.000	3.69	28.52	40.97	56.76	48.00	74.00	-26.00	peak
3 *	2402.000	3.63	28.54	40.98	91.65	82.84	74.00	8.84	peak



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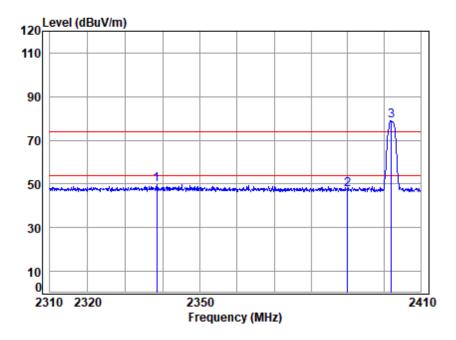
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Mode:d; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

		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	
	2220 267	4 03	20.42	40.05	FO 4F	40.66	74.00	24.24	
1	2338.367	4.03	28.43	40.95	58.15	49.66	74.00	-24.34	реак
2	2390.000	3.69	28.52	40.97	56.36	47.60	74.00	-26.40	peak
3 *	2402.000	3.63	28.54	40.98	87.53	78.72	74.00	4.72	peak



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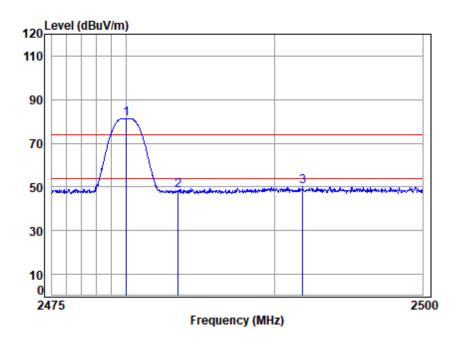
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Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2480 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2491.897	4.01	28.67	41.01	56.75	48.42	74.00	-25.58	peak



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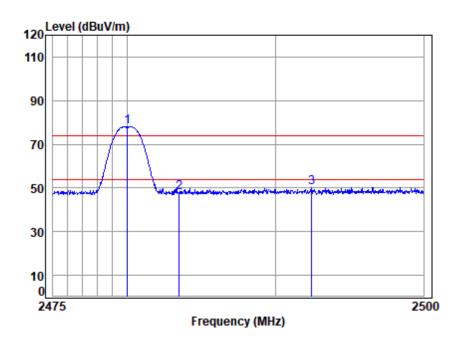
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Mode:d; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR : 2480 Band edge Mode

Note : BLE

			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	3.99	28.67	41.01	86.32	77.97	74.00	3.97	peak
2		2483.500	4.01	28.67	41.01	56.06	47.73	74.00	-26.27	peak
3		2492.424	4.05	28.69	41.01	58.59	50.32	74.00	-23.68	peak



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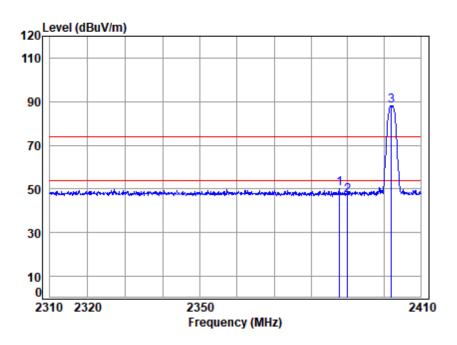
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Mode:i; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2387.837	3.70	28.51	40.97	58.88	50.12	74.00	-23.88	peak	
2	2390.000	3.69	28.52	40.97	55.94	47.18	74.00	-26.82	peak	
3 3	* 2402.000	3.63	28.54	40.98	96.69	87.88	74.00	13.88	peak	



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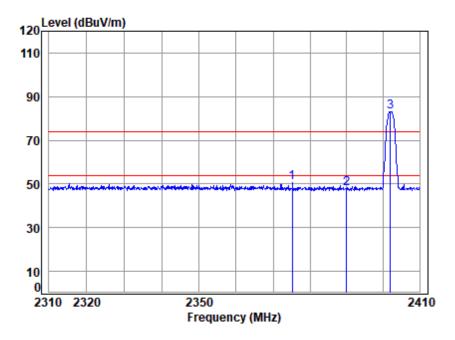
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Mode:i; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

	Fred			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2375.221	3.78	28.49	40.97	59.17	50.47	74.00	-23.53	peak
	2390.000								•
3 *	2402.000	3.63	28.54	40.98	92.04	83.23	74.00	9.23	peak



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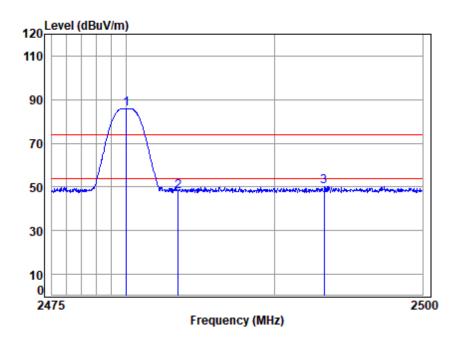
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Mode:i; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2480 Band edge Mode

: BLE Note

OCC										
		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	3.99	28.67	41.01	94.34	85.99	74.00	11.99	peak	
2	2483.500	4.01	28.67	41.01	56.44	48.11	74.00	-25.89	peak	
3	2493.351	4.05	28.69	41.01	58.61	50.34	74.00	-23.66	peak	



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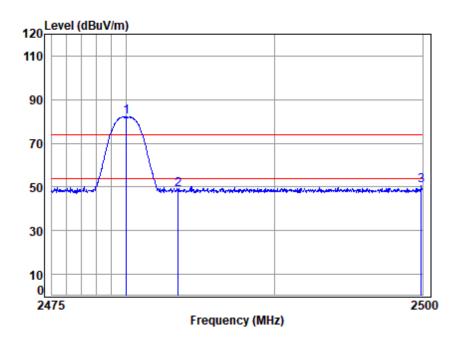
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Mode:i; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR : 2480 Band edge Mode

Note : BLE

			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	3.99	28.67	41.01	90.35	82.00	74.00	8.00	peak
2		2483.500	4.01	28.67	41.01	57.33	49.00	74.00	-25.00	peak
3		2499.899	4.08	28.70	41.02	58.67	50.43	74.00	-23.57	peak



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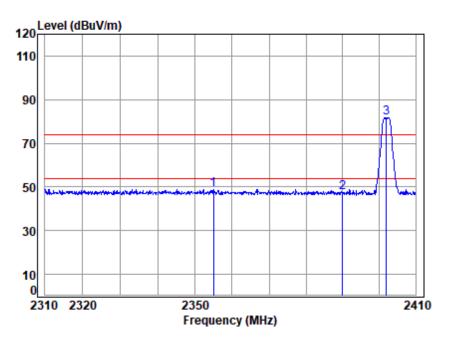
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Mode:j; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

		_								
		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	2354.975	3.92	28.46	40.96	57.60	49.02	74.00	-24.98	peak	
2	2390.000	3.69	28.52	40.97	56.23	47.47	74.00	-26.53	peak	
3 *	* 2402.000	3.63	28.54	40.98	90.52	81.71	74.00	7.71	peak	



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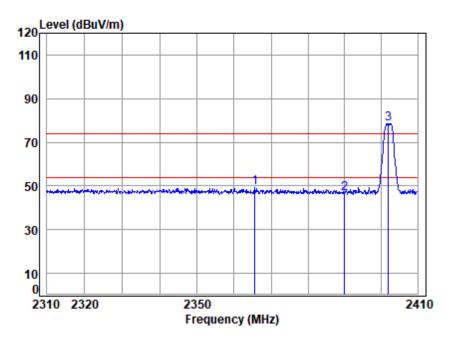
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Mode:j; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2365.578 2390.000								•
	2402.000								•



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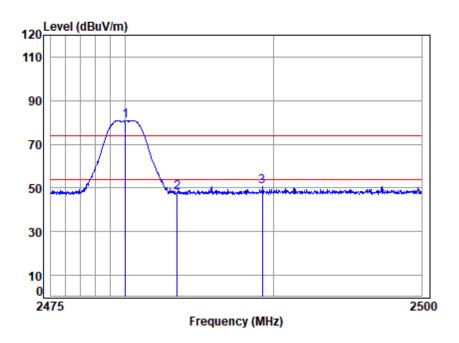
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Mode:j; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2480 Band edge Mode

Note : BLE

	Frea			Preamp Factor					Remark
				dB				dB	
2	2480.000 2483.500 2489.244	4.01	28.67	41.01	56.03	47.70	74.00	-26.30	peak



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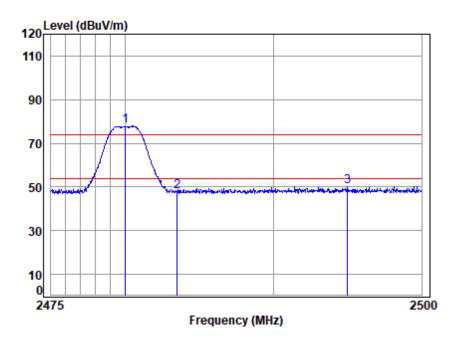
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Mode:j; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR : 2480 Band edge Mode

Note : BLE

		_							
		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	3.99	28.67	41.01	86.18	77.83	74.00	3.83	peak
2	2483.500	4.01	28.67	41.01	56.10	47.77	74.00	-26.23	peak
3	2494.980	4.06	28.69	41.02	58.51	50.24	74.00	-23.76	peak



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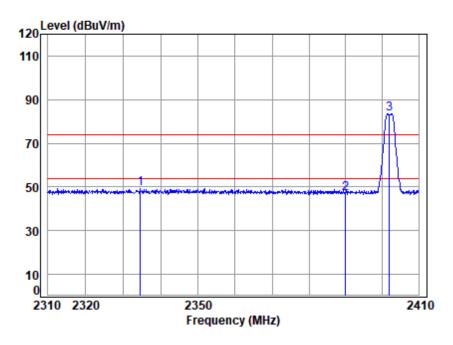
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Mode:k; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

		_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2334.505	4.06	28.42	40.95	57.78	49.31	74.00	-24.69	peak	
2	2390.000	3.69	28.52	40.97	55.86	47.10	74.00	-26.90	peak	
3 3	* 2402.000	3.63	28.54	40.98	92.36	83.55	74.00	9.55	peak	



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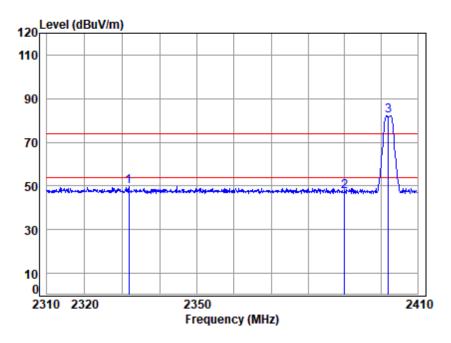
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Mode:k; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR : 2402 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2331.737 2390.000								•
	2402.000								•



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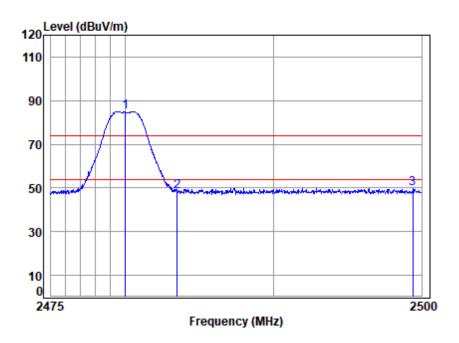
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Mode:k; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 21376CR/21377CR : 2480 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
2	2480.000 2483.500 2499.422	4.01	28.67	41.01	56.67	48.34	74.00	-25.66	peak



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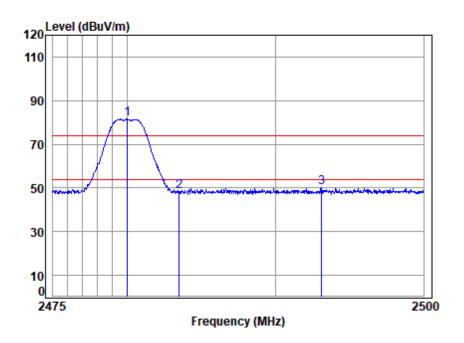
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Mode:k; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

: 21376CR/21377CR Mode : 2480 Band edge

Note : BLE

		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	3.99	28.67	41.01	89.83	81.48	74.00	7.48	peak
2	2483.500	4.01	28.67	41.01	56.79	48.46	74.00	-25.54	peak
3	2493.100	4.05	28.69	41.01	58.25	49.98	74.00	-24.02	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.

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

d:TX mode(Left earbuds 1M/bit of BLE)\_Keep the EUT in continuously Pretest these modes to find transmitting mode with GFSK modulation.

the worst case: i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE)\_Keep the EUT in continuously

transmitting mode with GFSK modulation

The worst case for final test:

d:TX mode(Left earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

i:TX mode(Right earbuds 1M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation.

j:TX mode(Left earbuds 2M/bit of BLE) Keep the EUT in continuously transmitting

mode with GFSK modulation.

k:TX mode(Right earbuds 2M/bit of BLE) Keep the EUT in continuously

transmitting mode with GFSK modulation



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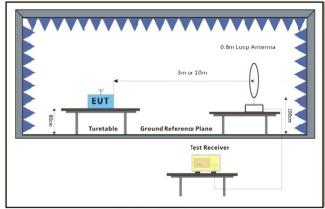
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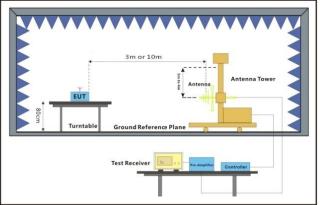


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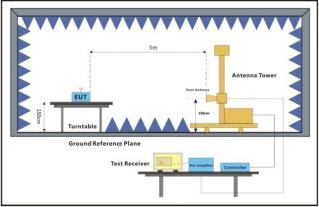
### 7.7.2 Test Setup Diagram





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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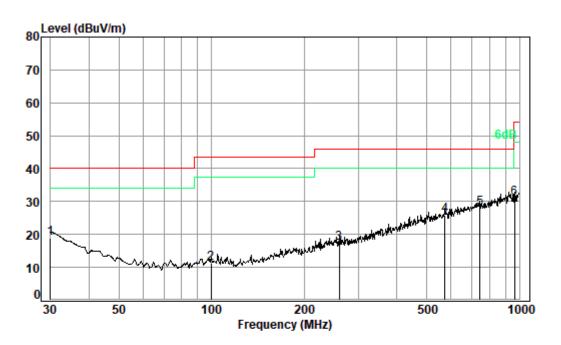


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#### Radiated emission below 1GHz

Mode:d: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 21376CR

Test mode: d

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB		dB		dD:///m	dD: M/m		
	МПZ	ub	ub/m	ub	ubuv	ubuv/m	ubuv/m	dB	
1	30.00	0.60	22.50	27.73	23.45	18.82	40.00	-21.18	QP
2	99.88	1.20	13.99	27.64	23.59	11.14	43.50	-32.36	QP
3	260.14	1.72	19.10	26.99	23.50	17.33	46.00	-28.67	QP
4	572.61	2.67	26.09	28.08	25.25	25.93	46.00	-20.07	QP
5 pp	744.87	3.04	28.18	27.83	24.59	27.98	46.00	-18.02	QP
6	965.54	3.67	30.13	27.04	24.19	30.95	54.00	-23.05	OP



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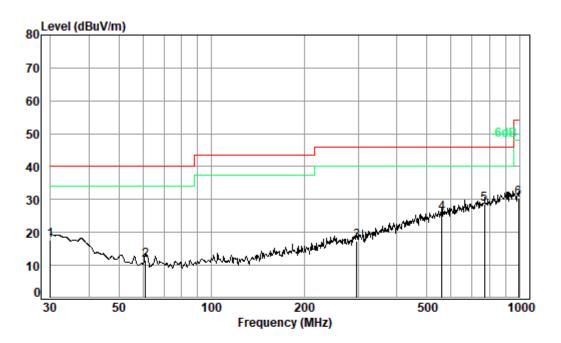
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Mode:d; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 21376CR

Test mode: d

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.00	0.60	22.50	27.73	22.25	17.62	40.00	-22.38	OP
2				27.68					-
3	296.18	1.88	19.45	26.90	22.96	17.39	46.00	-28.61	QP
4	560.69	2.66	25.86	28.04	25.26	25.74	46.00	-20.26	QP
5 p	p 771.45	3.12	28.34	27.78	24.99	28.67	46.00	-17.33	QP
6	993 01	3 69	30 27	26 94	23 43	30 45	54 00	-23 55	OP



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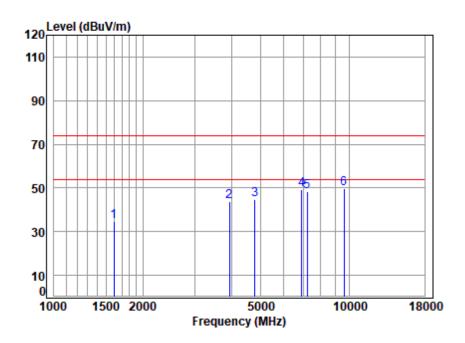


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### **Above 1GHz**

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2402 TX RSE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	2.95	26.24	40.57	46.24	34.86	74.00	-39.14	peak
2	3935.493	5.99	32.58	42.10	47.50	43.97	74.00	-30.03	peak
3	4804.000	6.80	33.97	42.77	46.84	44.84	74.00	-29.16	peak
4	6894.806	7.84	35.84	41.74	47.13	49.07	74.00	-24.93	peak
5	7206.000	8.44	36.07	41.58	45.41	48.34	74.00	-25.66	peak
6	9608.000	9.17	37.67	38.57	41.60	49.87	74.00	-24.13	peak



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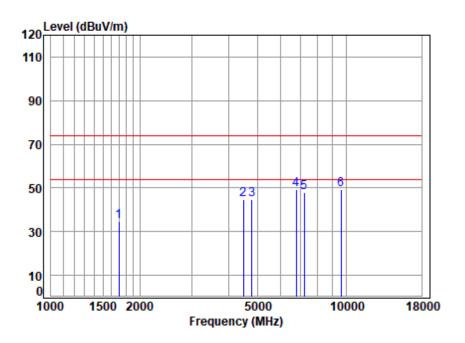
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Mode:d; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 21376CR/21377CR

Mode : 2402 TX RSE

Note : BLE

		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	3.30	26.66	40.63	45.54	34.87	74.00	-39.13	peak
2	4495.125	6.39	33.59	42.55	47.26	44.69	74.00	-29.31	peak
3	4804.000	6.80	33.97	42.77	46.85	44.85	74.00	-29.15	peak
4	6776.265	8.07	35.77	41.80	47.26	49.30	74.00	-24.70	peak
5	7206.000	8.44	36.07	41.58	45.05	47.98	74.00	-26.02	peak
6	9608.000	9.17	37.67	38.57	41.04	49.31	74.00	-24.69	peak



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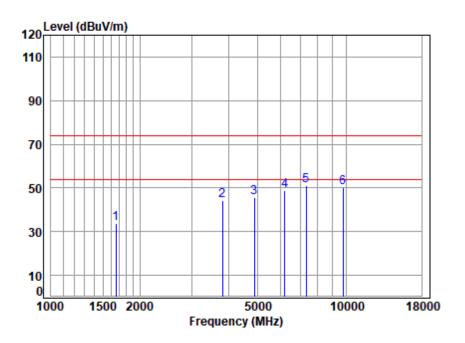
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Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2440 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	3.16	26.50	40.61	44.75	33.80	74.00	-40.20	peak
2	3812.336	6.89	32.34	42.00	47.02	44.25	74.00	-29.75	peak
3	4880.000	7.02	34.06	42.82	47.26	45.52	74.00	-28.48	peak
4	6195.508	7.61	35.30	42.12	47.99	48.78	74.00	-25.22	peak
5	7320.000	8.36	36.16	41.52	48.06	51.06	74.00	-22.94	peak
6	9760,000	9.33	37.76	38.35	41.44	50.18	74.00	-23.82	neak



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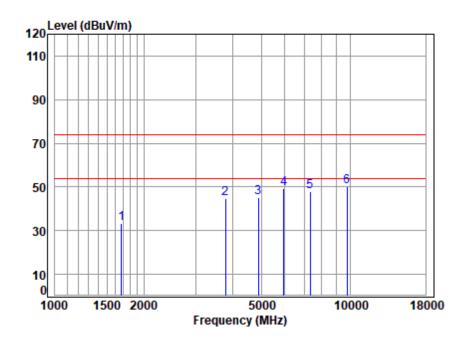
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Mode:d; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 21376CR/21377CR Mode : 2440 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1677.621	3.23	26.58	40.62	44.12	33.31	74.00	-40.69	peak
2	3790.361	6.86	32.30	41.98	47.62	44.80	74.00	-29.20	peak
3	4880.000	7.02	34.06	42.82	46.95	45.21	74.00	-28.79	peak
4	5967.033	7.22	35.07	42.26	49.20	49.23	74.00	-24.77	peak
5	7320.000	8.36	36.16	41.52	44.76	47.76	74.00	-26.24	peak
6	9760,000	9.33	37.76	38.35	41.36	50.10	74.00	-23.90	peak



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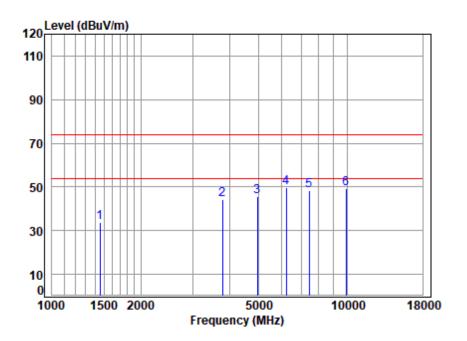
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Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2480 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1456.081	2.72	25.64	40.48	46.01	33.89	74.00	-40.11	peak
2	3779.422	6.67	32.28	41.97	47.16	44.14	74.00	-29.86	peak
3	4960.000	7.02	34.15	42.87	47.22	45.52	74.00	-28.48	peak
4	6213.441	7.57	35.32	42.11	48.87	49.65	74.00	-24.35	peak
5	7440.000	8.10	36.25	41.46	45.69	48.58	74.00	-25.42	peak
6	9920.000	8.96	37.85	38.12	40.61	49.30	74.00	-24.70	neak



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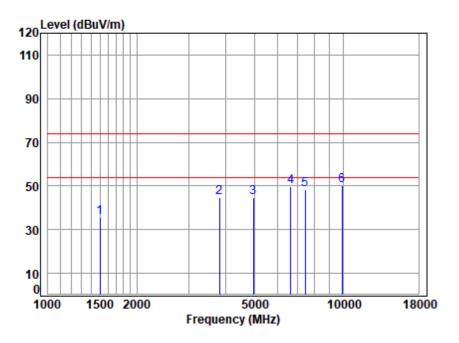
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Mode:d; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 21376CR/21377CR

Mode : 2480 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	2.98	25.80	40.51	47.16	35.43	74.00	-38.57	peak
2	3812.336	6.89	32.34	42.00	47.60	44.83	74.00	-29.17	peak
3	4960.000	7.02	34.15	42.87	46.56	44.86	74.00	-29.14	peak
4	6640.542	8.14	35.69	41.87	47.68	49.64	74.00	-24.36	peak
5	7440.000	8.10	36.25	41.46	45.51	48.40	74.00	-25.60	peak
6	9920.000	8.96	37.85	38.12	41.63	50.32	74.00	-23.68	neak



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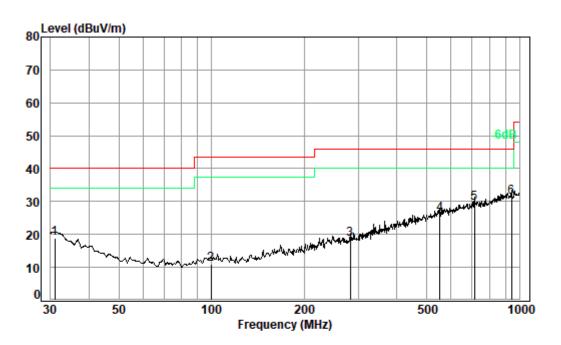


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#### Radiated emission below 1GHz

Mode:i; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 21376CR

Test mode: i

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.96	0.60	21.95	27.73	24.00	18.82	40.00	-21.18	QP
2	99.88	1.20	13.99	27.64	23.42	10.97	43.50	-32.53	QP
3	281.99	1.82	18.88	26.93	24.73	18.50	46.00	-27.50	QP
4	552.88	2.66	25.70	28.02	25.70	26.04	46.00	-19.96	QP
5	714.17	2.95	27.99	27.90	26.35	29.39	46.00	-16.61	QP
6 pp	942.13	3.64	30.02	27.13	24.87	31.40	46.00	-14.60	OP



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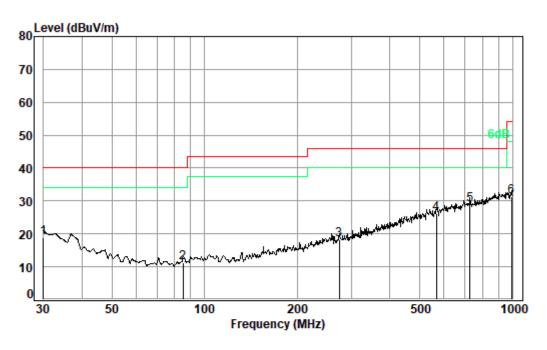
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Mode:i; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 21376CR

Test mode: i

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.00	0.60	22.50	27.73	23.54	18.91	40.00	-21.09	QP
2	85.30	1.10	12.60	27.65	25.16	11.21	40.00	-28.79	QP
3	274.19	1.79	18.88	26.95	24.46	18.18	46.00	-27.82	QP
4	566.62	2.67	25.97	28.06	25.55	26.13	46.00	-19.87	QP
5 pp	729.36	2.99	28.08	27.86	25.67	28.88	46.00	-17.12	QP
6	993.01	3.69	30.27	26.94	24.27	31.29	54.00	-22.71	OP



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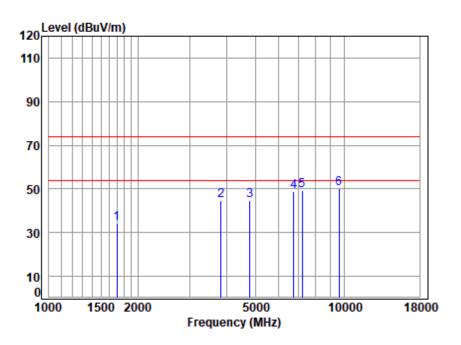


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### **Above 1GHz**

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2402 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.30	26.68	40.63	44.89	34.24	74.00	-39.76	peak
2	3823.371	6.78	32.36	42.01	47.51	44.64	74.00	-29.36	peak
3	4804.000	6.80	33.97	42.77	46.54	44.54	74.00	-29.46	peak
4	6737.207	8.21	35.75	41.82	46.89	49.03	74.00	-24.97	peak
5	7206.000	8.44	36.07	41.58	46.32	49.25	74.00	-24.75	peak
6	9608,000	9.17	37.67	38.57	41.83	50.10	74.00	-23.90	peak



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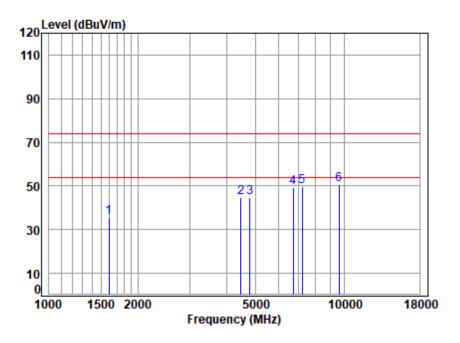
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Mode:i; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 21376CR/21377CR

Mode : 2402 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	2.95	26.24	40.57	47.06	35.68	74.00	-38.32	peak
2	4469.214	6.47	33.55	42.53	47.09	44.58	74.00	-29.42	peak
3	4804.000	6.80	33.97	42.77	46.61	44.61	74.00	-29.39	peak
4	6717.762	8.28	35.73	41.83	46.91	49.09	74.00	-24.91	peak
5	7206.000	8.44	36.07	41.58	46.89	49.82	74.00	-24.18	peak
6	9608.000	9.17	37.67	38.57	42.39	50.66	74.00	-23.34	neak



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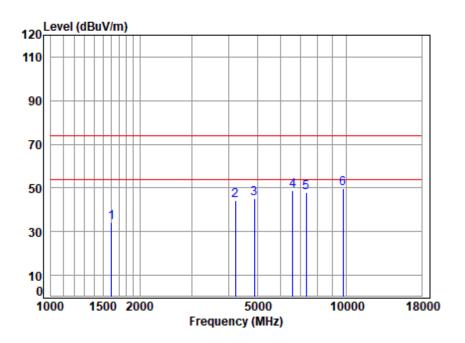
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Mode:i; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2440 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	2.96	26.26	40.57	45.74	34.39	74.00	-39.61	peak
2	4218.186	6.16	33.11	42.33	47.16	44.10	74.00	-29.90	peak
3	4880.000	7.02	34.06	42.82	46.86	45.12	74.00	-28.88	peak
4	6583.209	7.90	35.65	41.91	47.35	48.99	74.00	-25.01	peak
5	7320.000	8.36	36.16	41.52	45.13	48.13	74.00	-25.87	peak
6	9760.000	9.33	37.76	38.35	41.19	49.93	74.00	-24.07	neak



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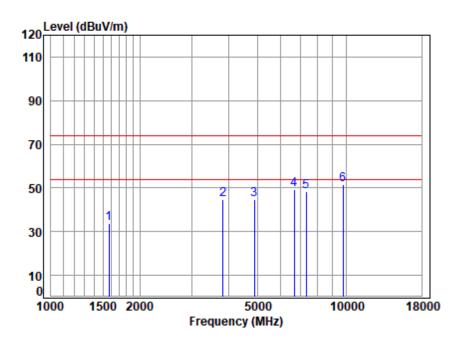
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Mode:i; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 21376CR/21377CR Mode : 2440 TX RSE

 BLF Note

. DLI	_							
	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	
1574.265	2.96	26.14	40.55	45.43	33.98	74.00	-40.02	peak
3823.371	6.78	32.36	42.01	47.77	44.90	74.00	-29.10	peak
4880.000	7.02	34.06	42.82	46.43	44.69	74.00	-29.31	peak
6679.040	8.27	35.71	41.85	47.25	49.38	74.00	-24.62	peak
7320.000	8.36	36.16	41.52	45.39	48.39	74.00	-25.61	peak
9760.000	9.33	37.76	38.35	42.85	51.59	74.00	-22.41	peak
	Freq MHz 1574.265 3823.371 4880.000 6679.040 7320.000	Freq Loss  MHz dB  1574.265 2.96 3823.371 6.78 4880.000 7.02 6679.040 8.27 7320.000 8.36	Cable Ant Loss Factor  MHz dB dB/m  1574.265 2.96 26.14 3823.371 6.78 32.36 4880.000 7.02 34.06 6679.040 8.27 35.71 7320.000 8.36 36.16	Cable Ant Preamp Loss Factor Factor  MHz dB dB/m dB  1574.265 2.96 26.14 40.55 3823.371 6.78 32.36 42.01 4880.000 7.02 34.06 42.82 6679.040 8.27 35.71 41.85 7320.000 8.36 36.16 41.52	Cable Ant Preamp Read Loss Factor Factor Level  MHz dB dB/m dB dBuV  1574.265 2.96 26.14 40.55 45.43 3823.371 6.78 32.36 42.01 47.77 4880.000 7.02 34.06 42.82 46.43 6679.040 8.27 35.71 41.85 47.25 7320.000 8.36 36.16 41.52 45.39	Cable Loss Factor Factor         Ant Preamp Level Level Level         Read Level Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           1574.265         2.96         26.14         40.55         45.43         33.98           3823.371         6.78         32.36         42.01         47.77         44.90           4880.000         7.02         34.06         42.82         46.43         44.69           6679.040         8.27         35.71         41.85         47.25         49.38           7320.000         8.36         36.16         41.52         45.39         48.39	Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line  MHz dB dB/m dB dBuV dBuV/m dBuV/m  1574.265 2.96 26.14 40.55 45.43 33.98 74.00 3823.371 6.78 32.36 42.01 47.77 44.90 74.00 4880.000 7.02 34.06 42.82 46.43 44.69 74.00 6679.040 8.27 35.71 41.85 47.25 49.38 74.00 7320.000 8.36 36.16 41.52 45.39 48.39 74.00	Cable Loss Factor Factor         Read Level Level Limit         Limit Over Limit           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m         dBuV/m         dB           1574.265         2.96         26.14         40.55         45.43         33.98         74.00         -40.02           3823.371         6.78         32.36         42.01         47.77         44.90         74.00         -29.10           4880.000         7.02         34.06         42.82         46.43         44.69         74.00         -29.31           6679.040         8.27         35.71         41.85         47.25         49.38         74.00         -24.62           7320.000         8.36         36.16         41.52         45.39         48.39         74.00         -25.61



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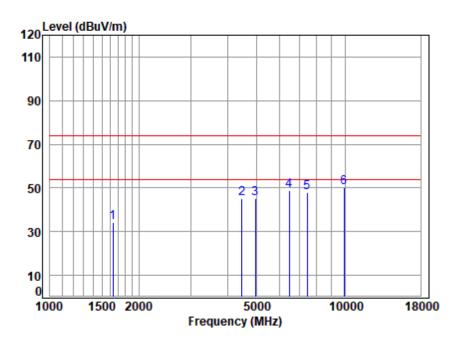
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Mode:i; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2480 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.543	3.08	26.40	40.59	45.29	34.18	74.00	-39.82	peak
2	4469.214	6.47	33.55	42.53	47.59	45.08	74.00	-28.92	peak
3	4960.000	7.02	34.15	42.87	46.70	45.00	74.00	-29.00	peak
4	6470.026	7.50	35.57	41.97	47.74	48.84	74.00	-25.16	peak
5	7440.000	8.10	36.25	41.46	45.21	48.10	74.00	-25.90	peak
6	9920.000	8.96	37.85	38.12	41.28	49.97	74.00	-24.03	neak



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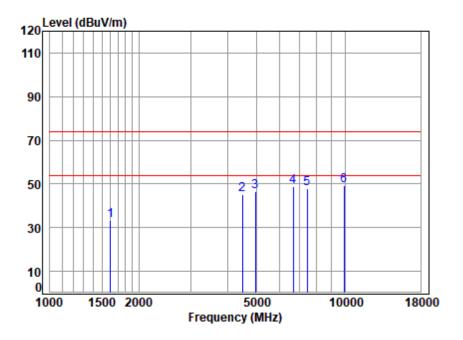
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Mode:i; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 21376CR/21377CR

Mode : 2480 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	2.96	26.26	40.57	44.78	33.43	74.00	-40.57	peak
2	4482.150	6.43	33.57	42.54	47.65	45.11	74.00	-28.89	peak
3	4960.000	7.02	34.15	42.87	48.19	46.49	74.00	-27.51	peak
4	6679.040	8.27	35.71	41.85	46.60	48.73	74.00	-25.27	peak
5	7440.000	8.10	36.25	41.46	45.18	48.07	74.00	-25.93	peak
6	9920.000	8.96	37.85	38.12	40.40	49.09	74.00	-24.91	neak



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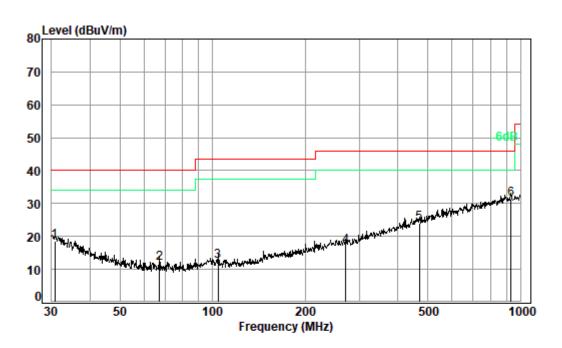


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#### Radiated emission below 1GHz

Mode: i: Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 21376CR

Test mode: j

		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	
_	20.75					40.44			
1	30.75			27.73					•
2	67.20	0.80	12.91	27.67	25.85	11.89	40.00	-28.11	QP
3	104.17	1.21	13.80	27.61	25.13	12.53	43.50	-30.97	QP
4	271.32	1.77	18.93	26.96	23.30	17.04	46.00	-28.96	QP
5	470.52	2.49	24.00	27.72	25.17	23.94	46.00	-22.06	QP
6 pp	932.27	3.63	29.97	27.16	24.80	31.24	46.00	-14.76	OP



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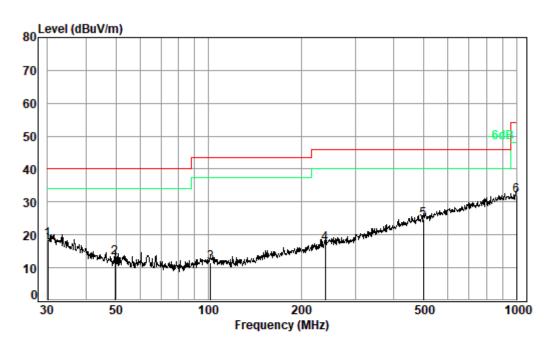
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Mode:j; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 21376CR

Test mode: i

	,	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	20 11	0.00	22.44	27 72	22.20	10 60	40.00	24 24	OD
1 pp 2				27.73 27.69					_
3				27.63					_
4	239.15	1.62	18.73	27.04	24.15	17.46	46.00	-28.54	QP
5	499.42	2.60	24.59	27.83	25.22	24.58	46.00	-21.42	QP
6	1000.00	3.70	30.30	26.91	24.85	31.94	54.00	-22.06	OP



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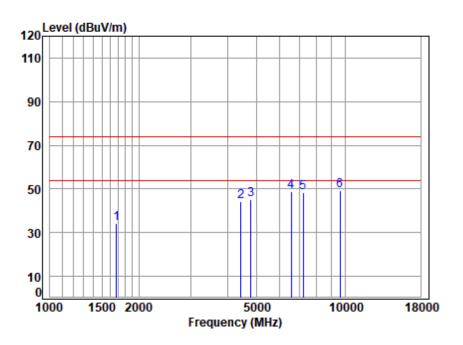


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#### **Above 1GHz**

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2402 TX RSE

Note : BLE

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.25	26.60	40.62	44.88	34.11	74.00	-39.89	peak
2	4430.628	6.59	33.48	42.50	46.70	44.27	74.00	-29.73	peak
3	4804.000	6.80	33.97	42.77	47.20	45.20	74.00	-28.80	peak
4	6564.209	7.79	35.64	41.92	47.42	48.93	74.00	-25.07	peak
5	7206.000	8.44	36.07	41.58	45.39	48.32	74.00	-25.68	peak
6	9608.000	9.17	37.67	38.57	41.06	49.33	74.00	-24.67	peak



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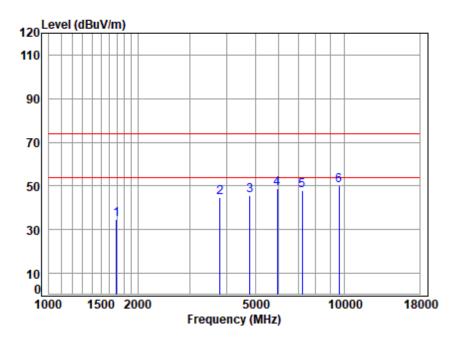
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Mode:j; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21376CR/21377CR Mode : 2402 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	3.28	26.64	40.63	45.58	34.87	74.00	-39.13	peak
2	3801.333	7.01	32.32	41.99	47.38	44.72	74.00	-29.28	peak
3	4804.000	6.80	33.97	42.77	47.49	45.49	74.00	-28.51	peak
4	5932.638	7.16	35.04	42.28	48.91	48.83	74.00	-25.17	peak
5	7206.000	8.44	36.07	41.58	44.91	47.84	74.00	-26.16	peak
6	9608.000	9.17	37.67	38.57	41.77	50.04	74.00	-23.96	neak



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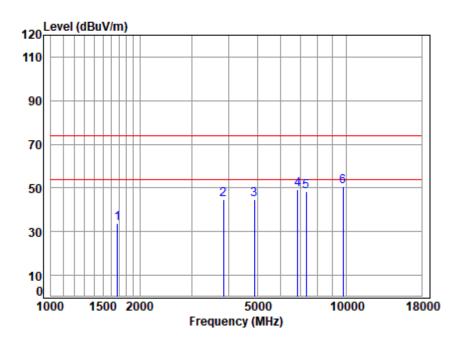
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Mode:j; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2440 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.25	26.60	40.62	44.34	33.57	74.00	-40.43	peak
2	3845.537	6.56	32.41	42.03	47.91	44.85	74.00	-29.15	peak
3	4880.000	7.02	34.06	42.82	46.26	44.52	74.00	-29.48	peak
4	6855.063	7.90	35.82	41.76	47.49	49.45	74.00	-24.55	peak
5	7320.000	8.36	36.16	41.52	45.17	48.17	74.00	-25.83	peak
6	9760.000	9.33	37.76	38.35	42.00	50.74	74.00	-23.26	peak



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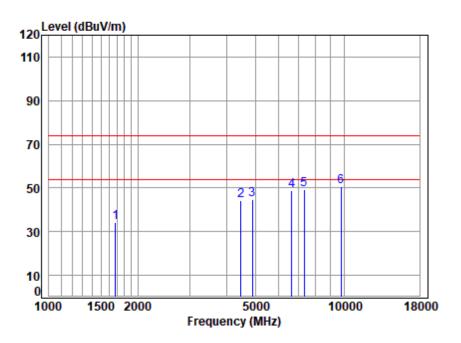
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Mode:j; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 21376CR/21377CR

Mode : 2440 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.25	26.60	40.62	45.04	34.27	74.00	-39.73	peak
2	4469.214	6.47	33.55	42.53	46.79	44.28	74.00	-29.72	peak
3	4880.000	7.02	34.06	42.82	46.57	44.83	74.00	-29.17	peak
4	6640.542	8.14	35.69	41.87	46.79	48.75	74.00	-25.25	peak
5	7320.000	8.36	36.16	41.52	46.16	49.16	74.00	-24.84	peak
6	9760,000	9.33	37.76	38.35	41.99	50.73	74.00	-23.27	peak



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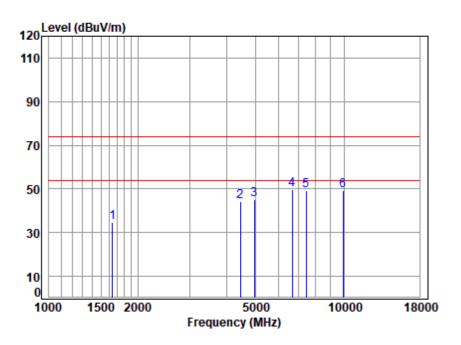
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Mode:j; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2480 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	3.09	26.42	40.59	45.83	34.75	74.00	-39.25	peak
2	4456.315	6.51	33.53	42.52	46.69	44.21	74.00	-29.79	peak
3	4960.000	7.02	34.15	42.87	46.68	44.98	74.00	-29.02	peak
4	6659.763	8.21	35.70	41.86	47.51	49.56	74.00	-24.44	peak
5	7440.000	8.10	36.25	41.46	46.55	49.44	74.00	-24.56	peak
6	9920.000	8.96	37.85	38.12	40.39	49.08	74.00	-24.92	neak



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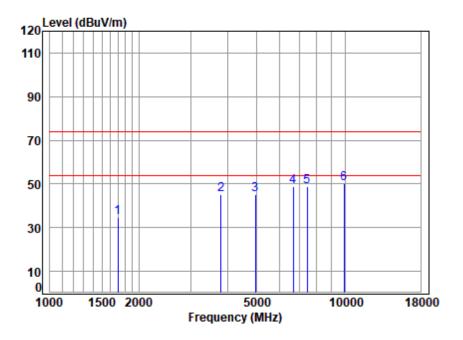
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Mode:j; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 21376CR/21377CR

Mode : 2480 TX RSE

Note : BLE

		_							
		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	3.30	26.66	40.63	45.34	34.67	74.00	-39.33	peak
2	3801.333	7.01	32.32	41.99	47.63	44.97	74.00	-29.03	peak
3	4960.000	7.02	34.15	42.87	46.82	45.12	74.00	-28.88	peak
4	6679.040	8.27	35.71	41.85	46.91	49.04	74.00	-24.96	peak
5	7440.000	8.10	36.25	41.46	45.83	48.72	74.00	-25.28	peak
6	9920.000	8.96	37.85	38.12	41.32	50.01	74.00	-23.99	peak



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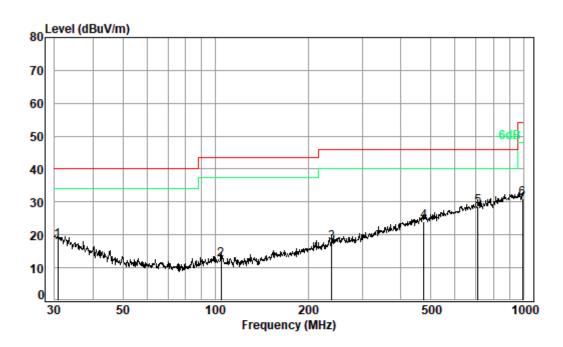


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#### Radiated emission below 1GHz

Mode:k; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 21376CR

Test mode: k

		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	30.75	0.60	22.07	27.73	23.28	18.22	40.00	-21.78	QP
2	104.17	1.21	13.80	27.61	25.20	12.60	43.50	-30.90	QP
3	238.31	1.62	18.67	27.05	24.45	17.69	46.00	-28.31	QP
4	475.50	2.51	24.10	27.74	25.25	24.12	46.00	-21.88	QP
5 pp	711.67	2.94	27.97	27.90	25.63	28.64	46.00	-17.36	QP
6	993.01	3.69	30.27	26.94	23.90	30.92	54.00	-23.08	OP



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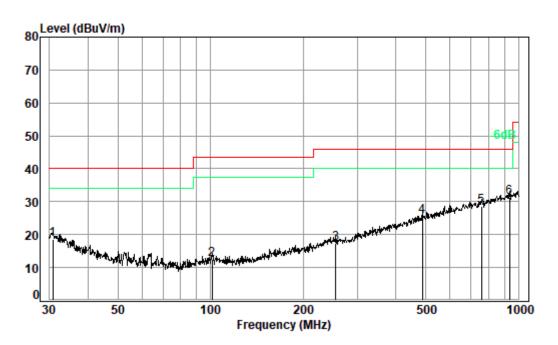
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Mode:k; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 21376CR

Test mode: k

	mouc. K								
		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	30.75	0.60	22.07	27.73	23.63	18.57	40.00	-21.43	QP
2	101.29	1.20	13.94	27.63	24.82	12.33	43.50	-31.17	QP
3	255.62	1.70	19.04	27.00	23.74	17.48	46.00	-28.52	QP
4	487.32	2.56	24.35	27.79	26.32	25.44	46.00	-20.56	QP
5	758.04	3.08	28.26	27.80	25.16	28.70	46.00	-17.30	QP
6 nr	935 55	3 64	29 98	27 15	2/1 78	31 25	16 00	_1/ 75	OP



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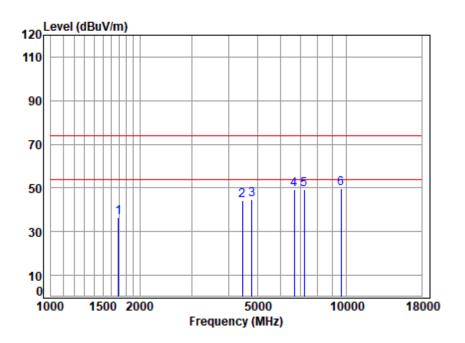


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### **Above 1GHz**

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2402 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	3.28	26.64	40.63	47.27	36.56	74.00	-37.44	peak
2	4456.315	6.51	33.53	42.52	46.95	44.47	74.00	-29.53	peak
3	4804.000	6.80	33.97	42.77	46.89	44.89	74.00	-29.11	peak
4	6679.040	8.27	35.71	41.85	47.28	49.41	74.00	-24.59	peak
5	7206.000	8.44	36.07	41.58	46.44	49.37	74.00	-24.63	peak
6	9608,000	9.17	37.67	38.57	41.36	49.63	74.00	-24.37	peak



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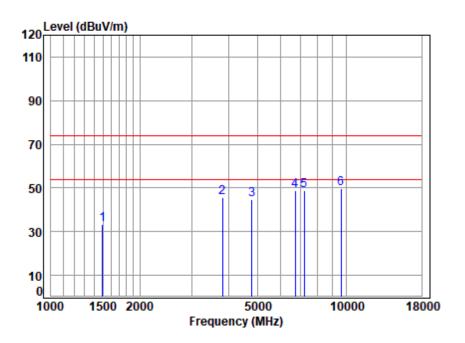
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Mode:k; Polarization:Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 21376CR/21377CR

Mode : 2402 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1494.455	2.96	25.78	40.50	45.07	33.31	74.00	-40.69	peak
2	3812.336	6.89	32.34	42.00	48.20	45.43	74.00	-28.57	peak
3	4804.000	6.80	33.97	42.77	46.75	44.75	74.00	-29.25	peak
4	6717.762	8.28	35.73	41.83	46.46	48.64	74.00	-25.36	peak
5	7206.000	8.44	36.07	41.58	46.03	48.96	74.00	-25.04	peak
6	9608,000	9.17	37.67	38.57	41.66	49.93	74.00	-24.07	peak



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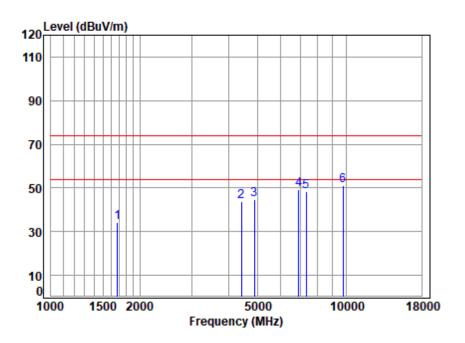
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Mode:k; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2440 TX RSE

Note : BLE

		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	3.23	26.58	40.62	44.99	34.18	74.00	-39.82	peak
2	4417.841	6.63	33.46	42.49	46.25	43.85	74.00	-30.15	peak
3	4880.000	7.02	34.06	42.82	46.36	44.62	74.00	-29.38	peak
4	6914.763	7.83	35.85	41.73	47.55	49.50	74.00	-24.50	peak
5	7320.000	8.36	36.16	41.52	45.29	48.29	74.00	-25.71	peak
6	9760,000	9.33	37.76	38.35	42.43	51.17	74.00	-22.83	peak



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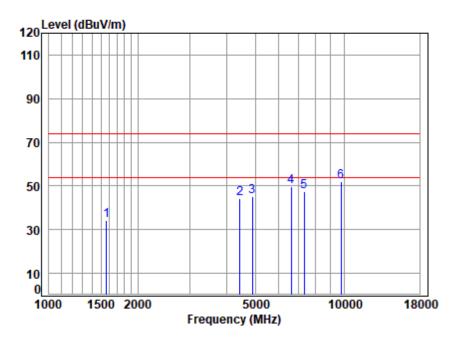
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Mode:k; Polarization:Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 21376CR/21377CR Mode : 2440 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	2.96	26.12	40.55	45.68	34.21	74.00	-39.79	peak
2	4443.453	6.55	33.50	42.51	46.71	44.25	74.00	-29.75	peak
3	4880.000	7.02	34.06	42.82	47.12	45.38	74.00	-28.62	peak
4	6621.375	8.07	35.67	41.88	48.06	49.92	74.00	-24.08	peak
5	7320.000	8.36	36.16	41.52	44.56	47.56	74.00	-26.44	peak
6	9760.000	9.33	37.76	38.35	43.27	52.01	74.00	-21.99	neak



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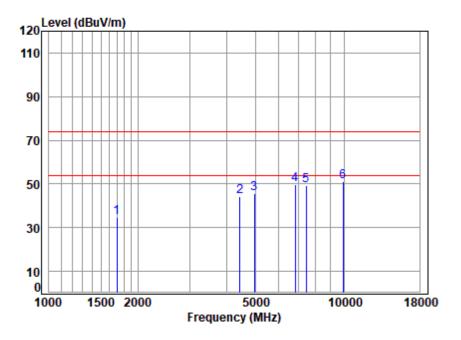
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Mode:k; Polarization:Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21376CR/21377CR Mode : 2480 TX RSE

Note : BLE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.30	26.68	40.63	45.13	34.48	74.00	-39.52	peak
2	4443.453	6.55	33.50	42.51	46.72	44.26	74.00	-29.74	peak
3	4960.000	7.02	34.15	42.87	47.49	45.79	74.00	-28.21	peak
4	6815.551	7.96	35.79	41.78	47.93	49.90	74.00	-24.10	peak
5	7440.000	8.10	36.25	41.46	46.18	49.07	74.00	-24.93	peak
6	9920.000	8.96	37.85	38.12	42.25	50.94	74.00	-23.06	peak



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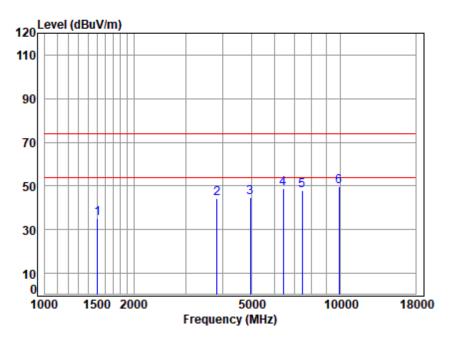
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Mode:k; Polarization:Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 21376CR/21377CR

Mode : 2480 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	2.99	25.83	40.51	46.68	34.99	74.00	-39.01	peak
2	3823.371	6.78	32.36	42.01	47.24	44.37	74.00	-29.63	peak
3	4960.000	7.02	34.15	42.87	46.60	44.90	74.00	-29.10	peak
4	6414.167	7.63	35.52	42.00	47.65	48.80	74.00	-25.20	peak
5	7440.000	8.10	36.25	41.46	45.10	47.99	74.00	-26.01	peak
6	9920.000	8.96	37.85	38.12	41.05	49.74	74.00	-24.26	neak



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#### 8 **Photographs**

#### **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 15.247-1M-Left earbuds:

#### 1.6dB Bandwidth

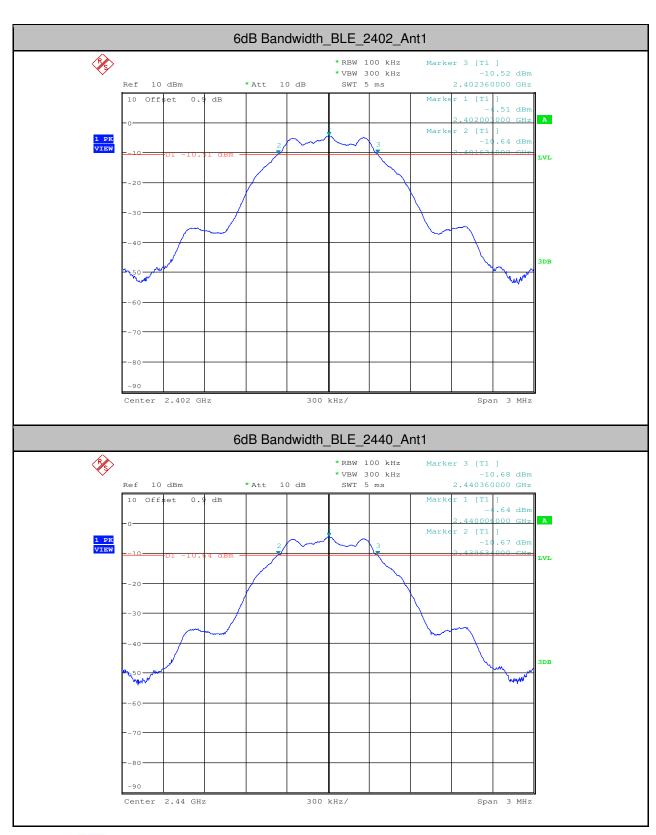
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	0.726	>=0.5	PASS
BLE	2440	Ant1	0.726	>=0.5	PASS
BLE	2480	Ant1	0.717	>=0.5	PASS





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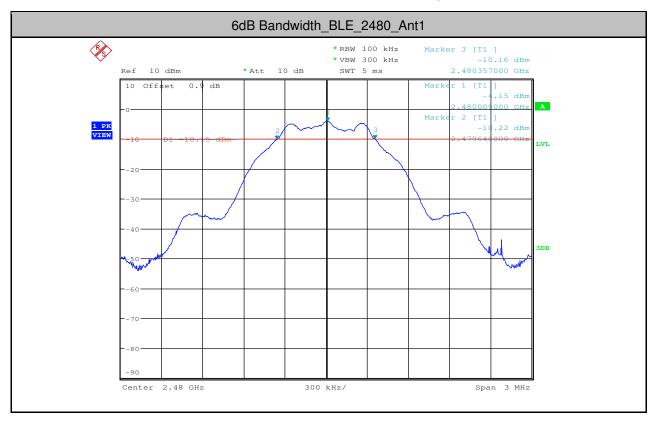
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#### 2.Maximum peak conducted output power

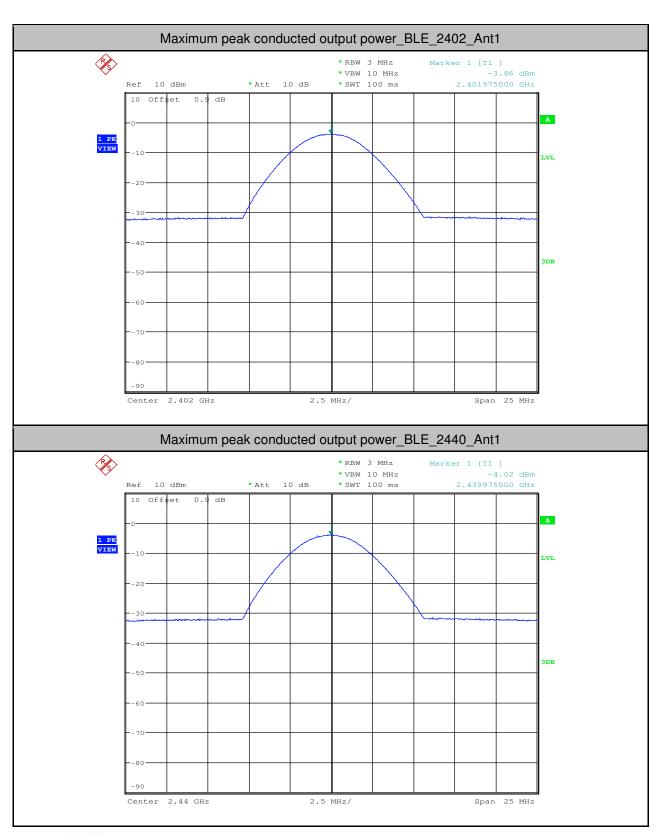
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-3.86	<30	PASS
BLE	2440	Ant1	-4.02	<30	PASS
BLE	2480	Ant1	-3.5	<30	PASS





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#### 3. Maximum Peak power spectral density

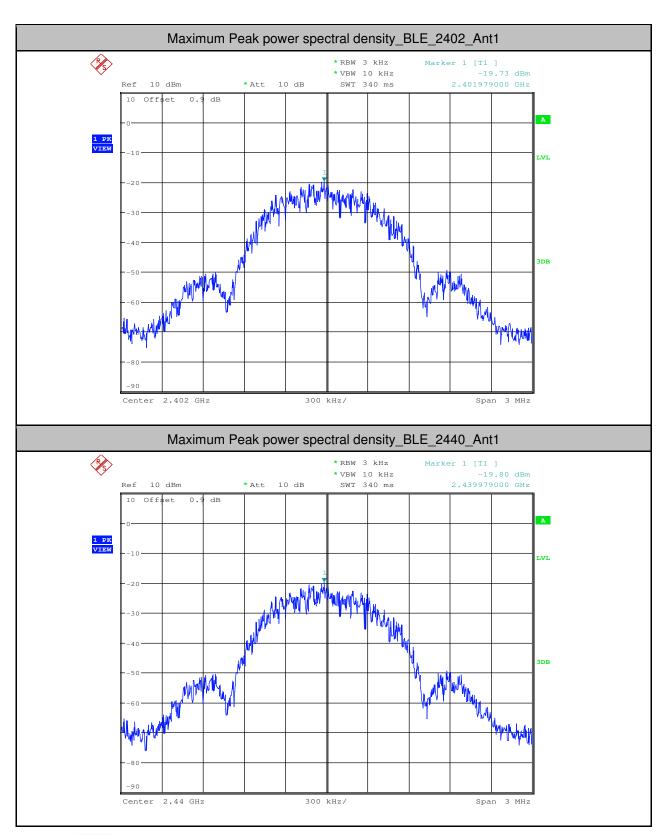
Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-19.73	<8.00	PASS
BLE	2440	Ant1	-19.8	<8.00	PASS
BLE	2480	Ant1	-19.37	<8.00	PASS





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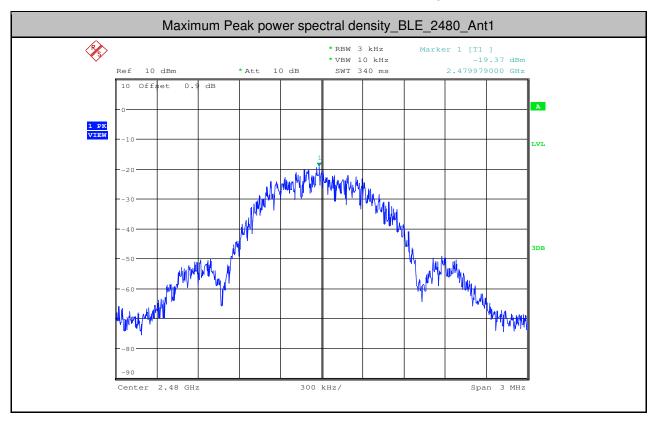
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#### 4.Band-edge for RF Conducted Emissions

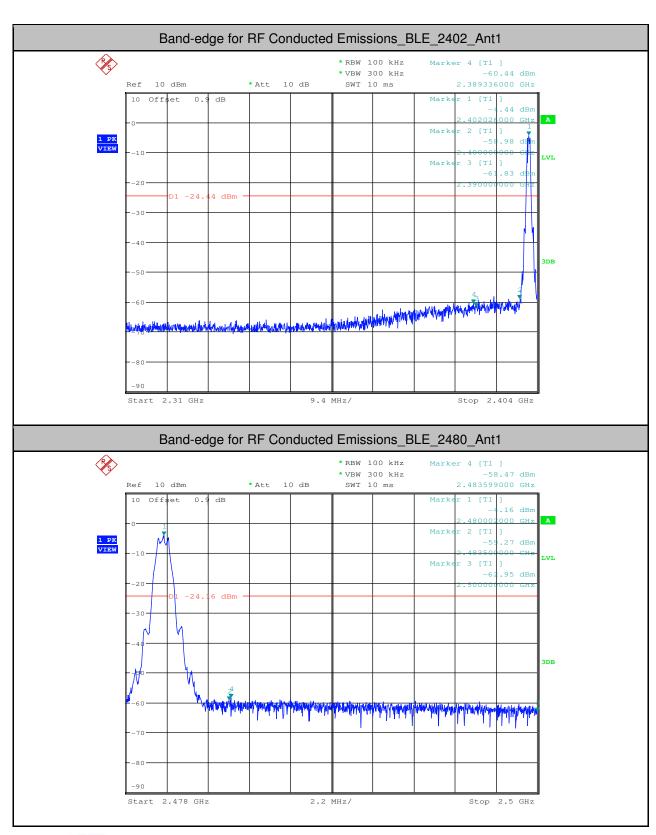
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-4.440	-60.442	<-24.44	PASS
BLE	2480	Ant1	-4.160	-58.470	<-24.16	PASS





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#### 5.RF Conducted Spurious Emissions

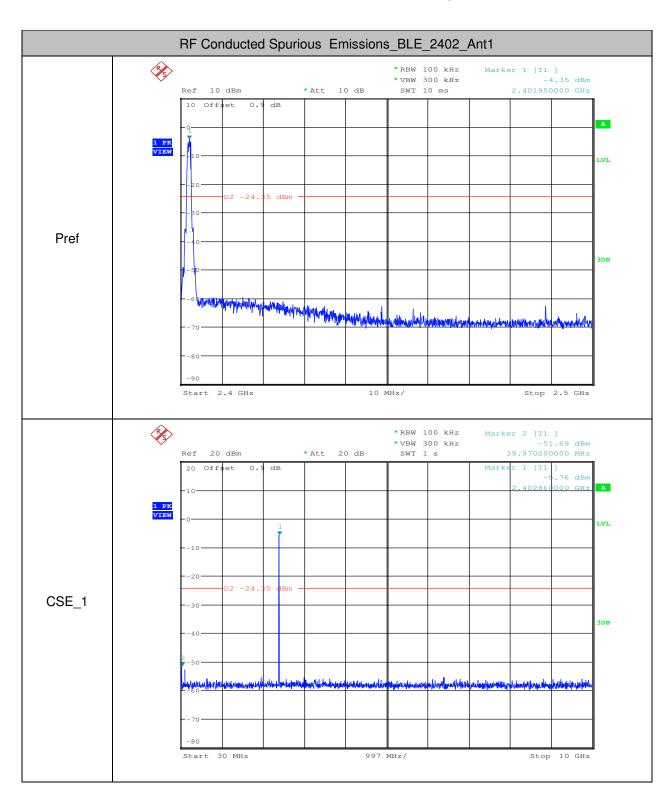
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	100	300	-4.35	-51.690	<-24.35	PASS
BLE	2402	10000	25000	1000	3000	-4.35	-54.400	<-24.35	PASS
BLE	2440	30	10000	100	300	-4.42	-52.370	<-24.42	PASS
BLE	2440	10000	25000	1000	3000	-4.42	-54.550	<-24.42	PASS
BLE	2480	30	10000	100	300	-3.93	-55.340	<-23.93	PASS
BLE	2480	10000	25000	1000	3000	-3.93	-54.560	<-23.93	PASS





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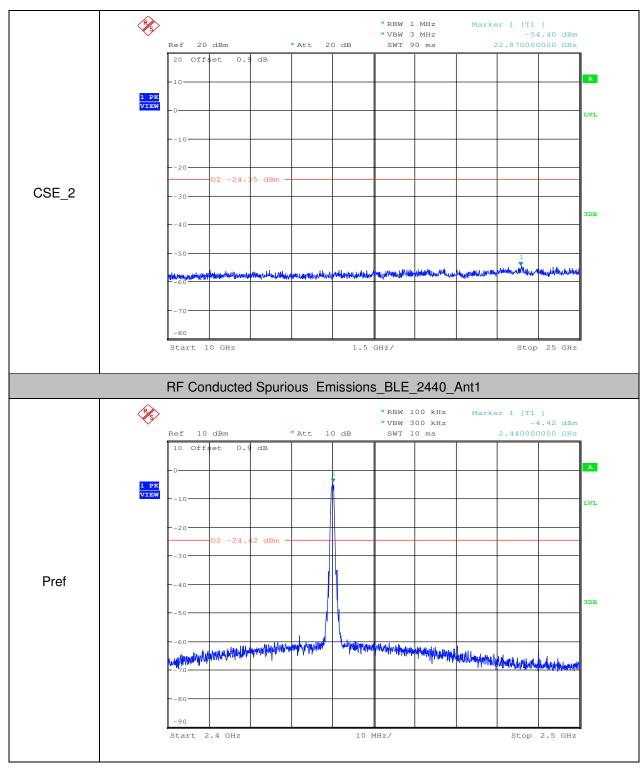
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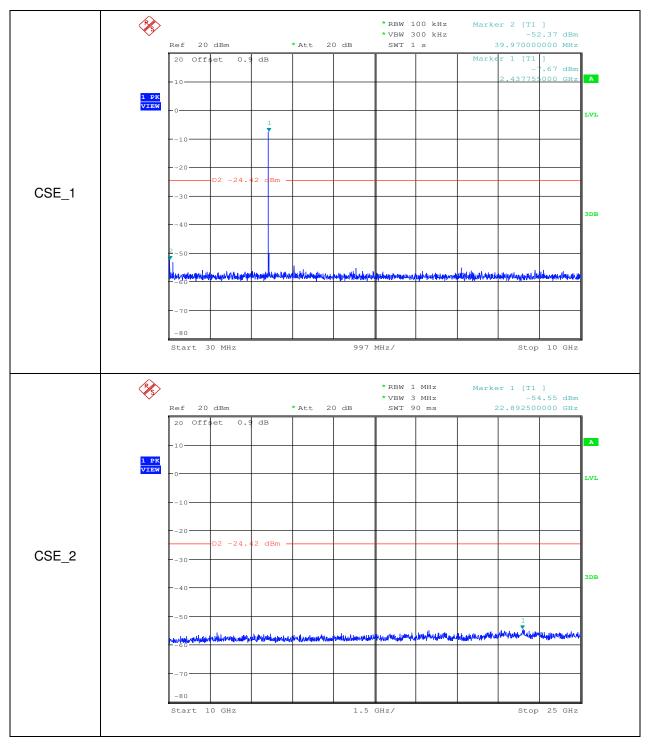
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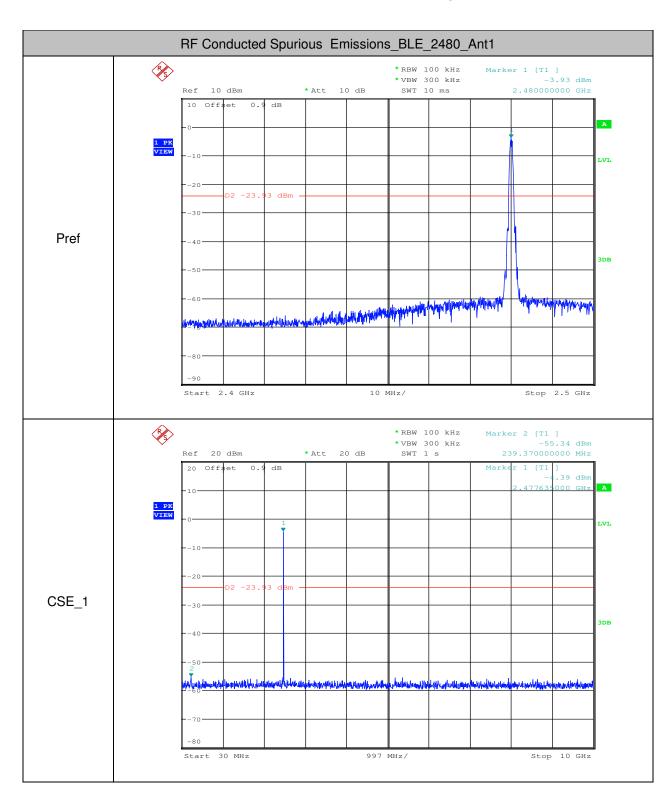
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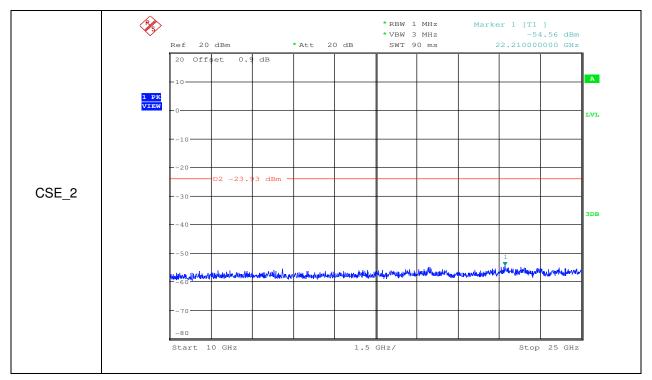
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#### 9.2 Appendix 15.247-1M-Right earbuds

#### 1.6dB Bandwidth

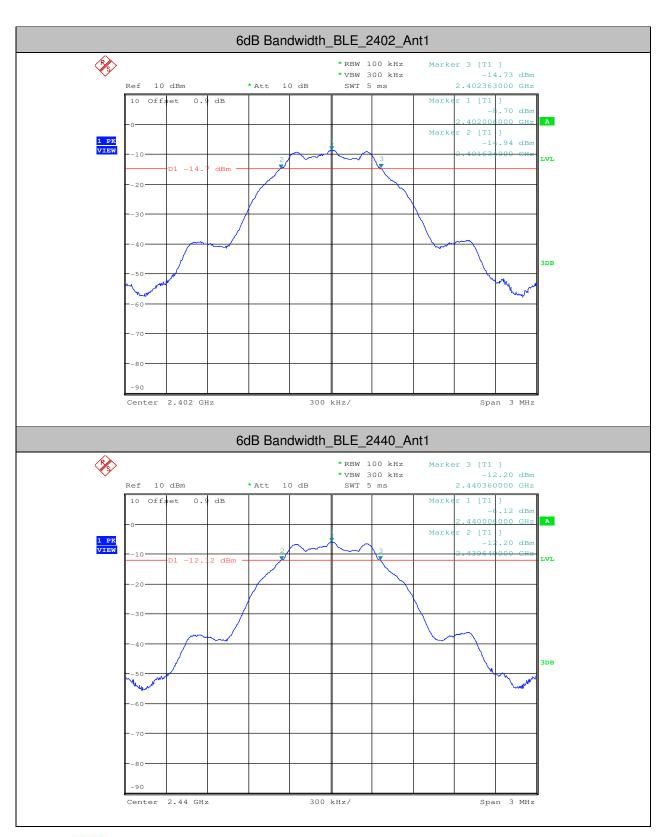
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	0.729	>=0.5	PASS
BLE	2440	Ant1	0.720	>=0.5	PASS
BLE	2480	Ant1	0.720	>=0.5	PASS





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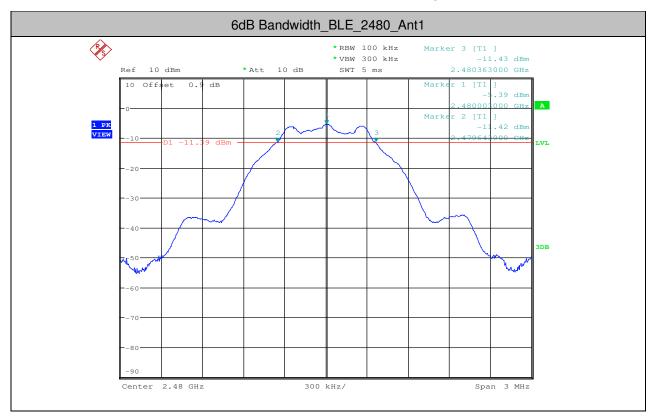
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#### 2.Maximum peak conducted output power

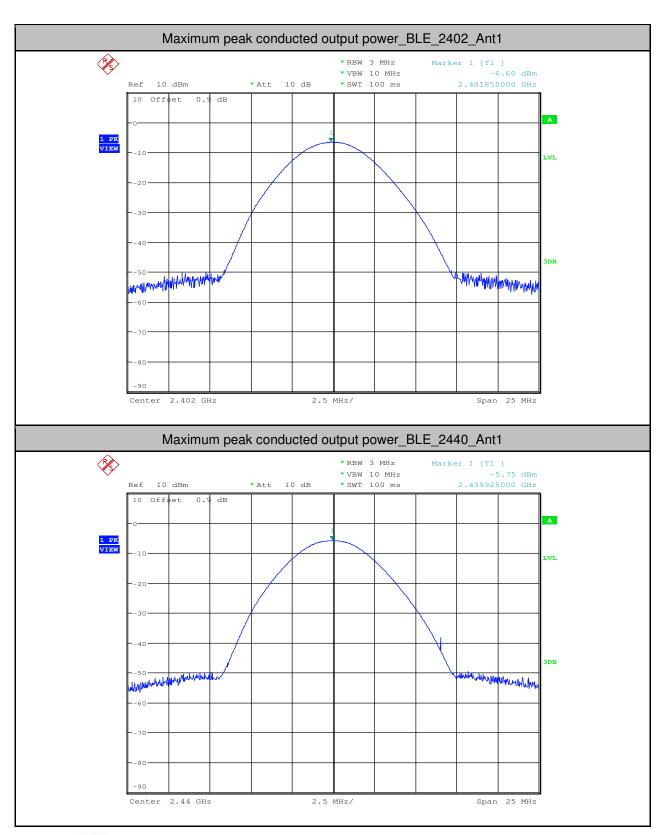
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-6.6	<30	PASS
BLE	2440	Ant1	-5.75	<30	PASS
BLE	2480	Ant1	-5.02	<30	PASS





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#### 3. Maximum Peak power spectral density

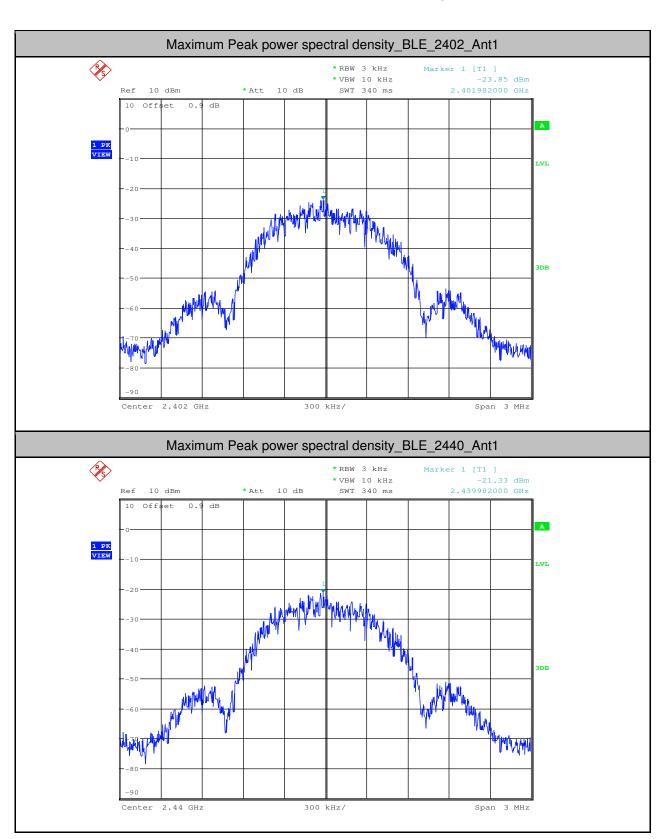
Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-23.85	<8.00	PASS
BLE	2440	Ant1	-21.33	<8.00	PASS
BLE	2480	Ant1	-20.63	<8.00	PASS





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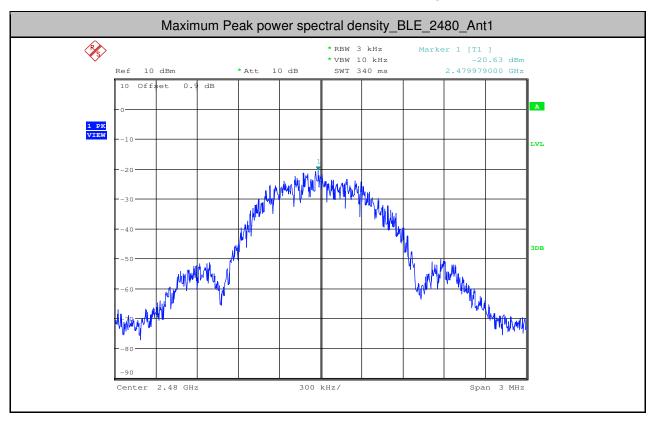
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#### 4.Band-edge for RF Conducted Emissions

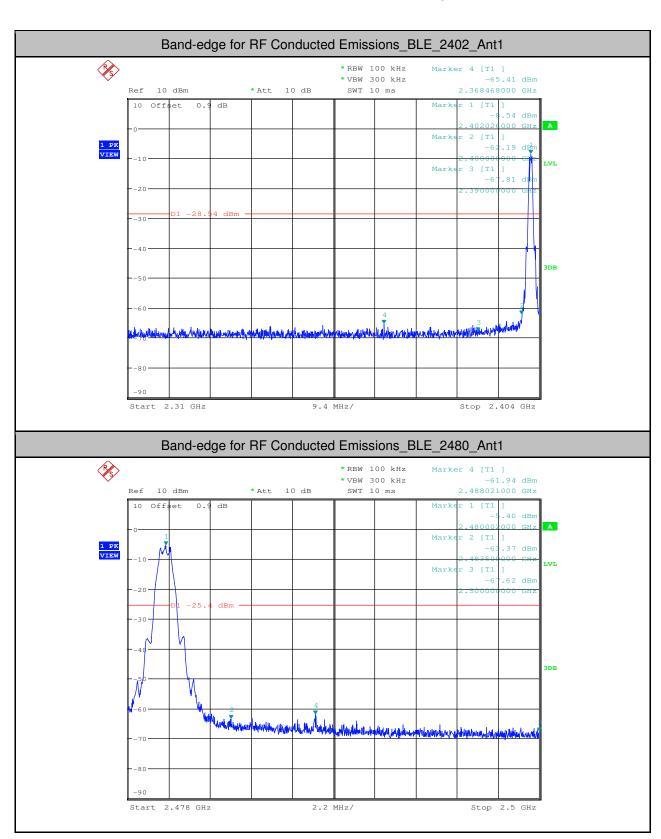
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-8.540	-65.407	<-28.54	PASS
BLE	2480	Ant1	-5.400	-61.936	<-25.4	PASS





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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	100	300	-8.53	-54.860	<-28.53	PASS
BLE	2402	10000	25000	1000	3000	-8.53	-54.570	<-28.53	PASS
BLE	2440	30	10000	100	300	-5.9	-49.210	<-25.9	PASS
BLE	2440	10000	25000	1000	3000	-5.9	-53.440	<-25.9	PASS
BLE	2480	30	10000	100	300	-5.98	-53.930	<-25.98	PASS
BLE	2480	10000	25000	1000	3000	-5.98	-54.260	<-25.98	PASS



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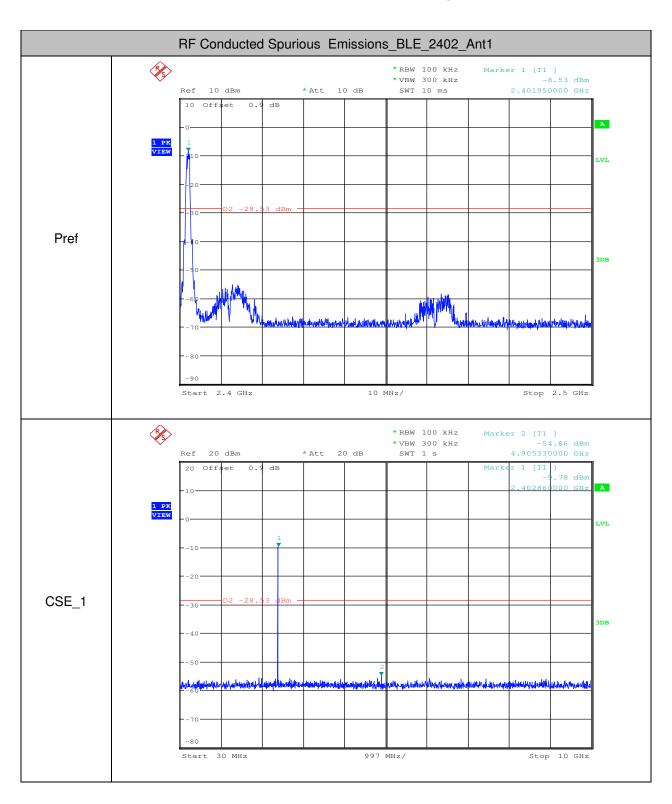
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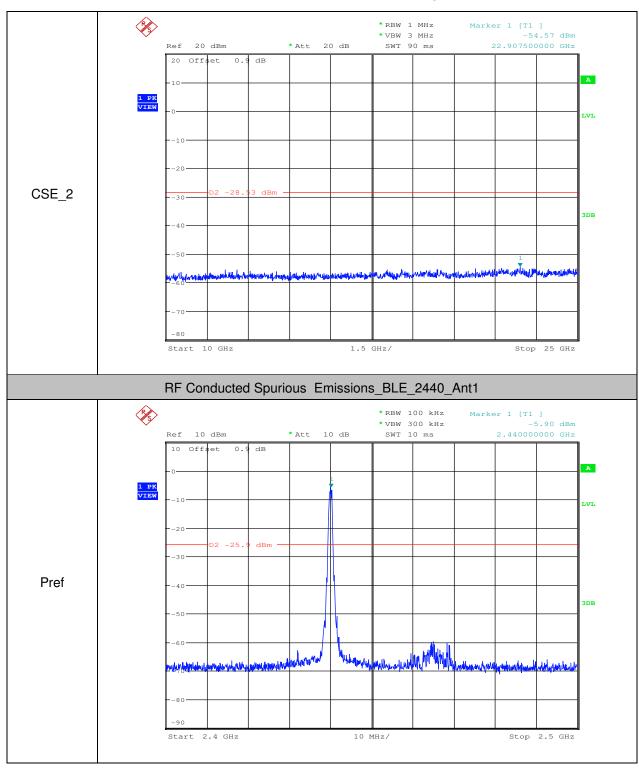
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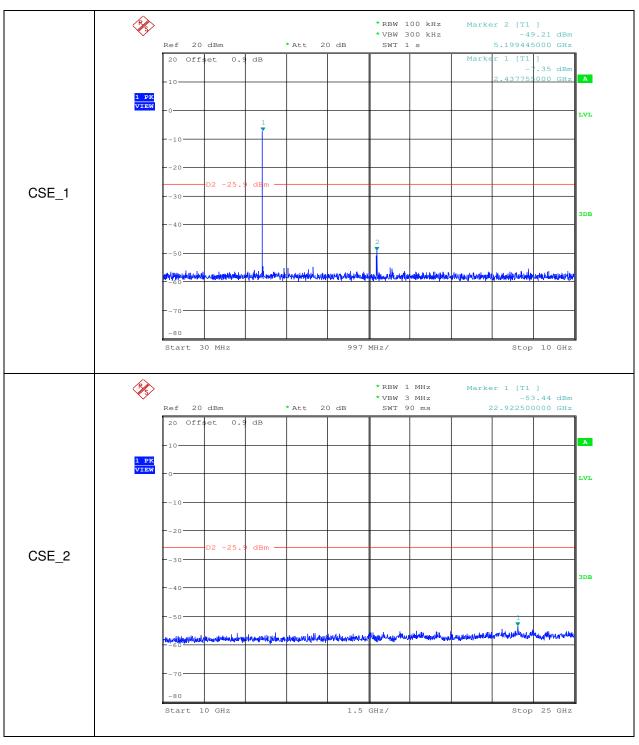
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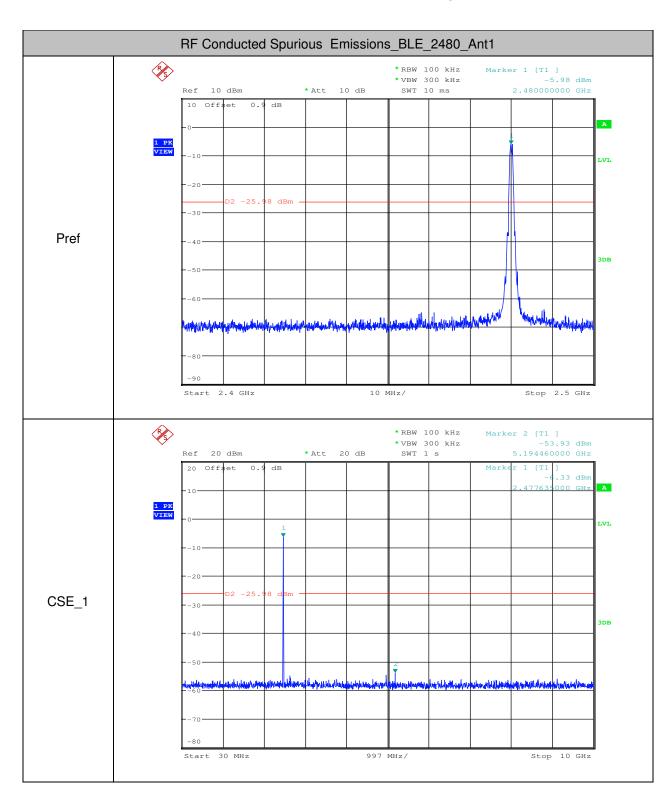
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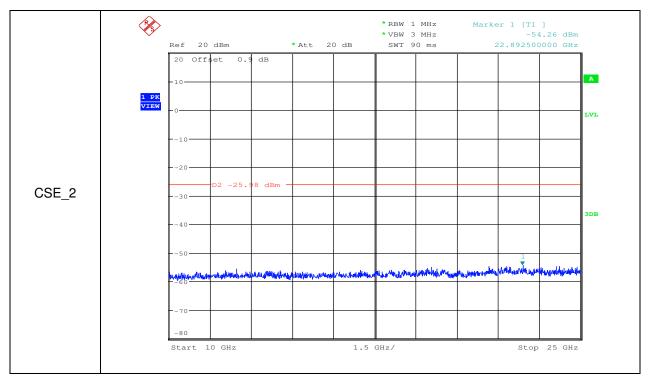
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#### 9.3 Appendix 15.247-2M-Left earbuds:

#### 1.6dB Bandwidth

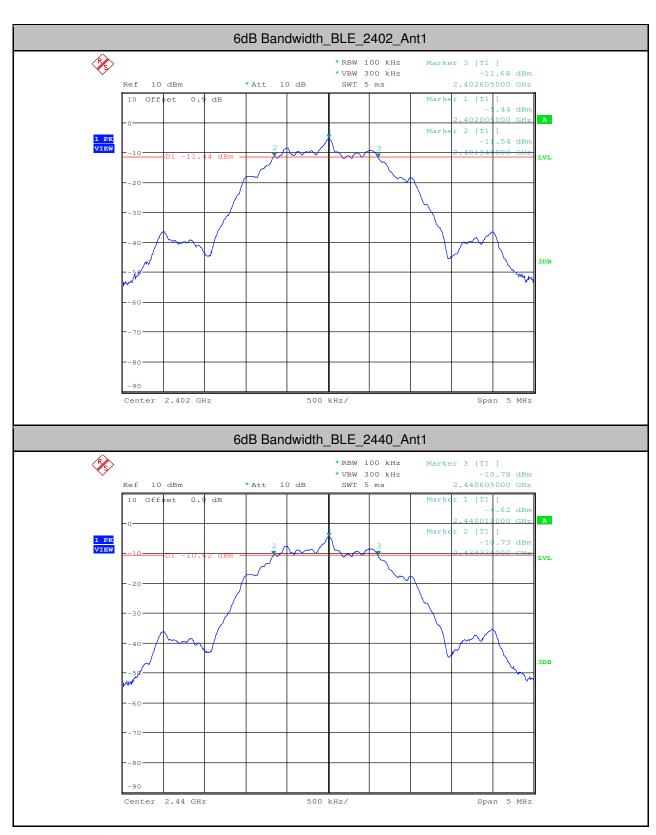
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	1.265	>=0.5	PASS
BLE	2440	Ant1	1.270	>=0.5	PASS
BLE	2480	Ant1	1.205	>=0.5	PASS





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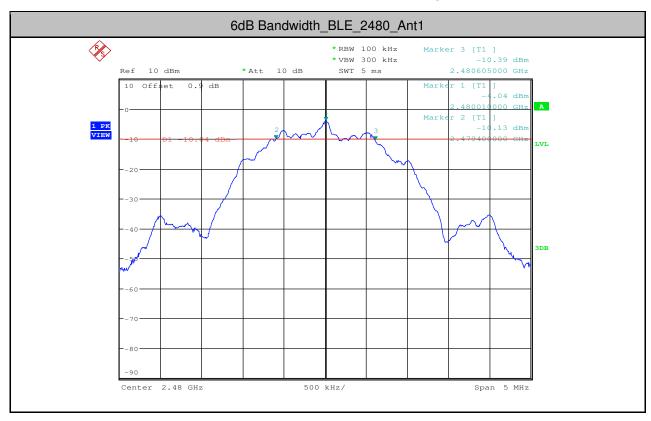
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#### 2.Maximum peak conducted output power

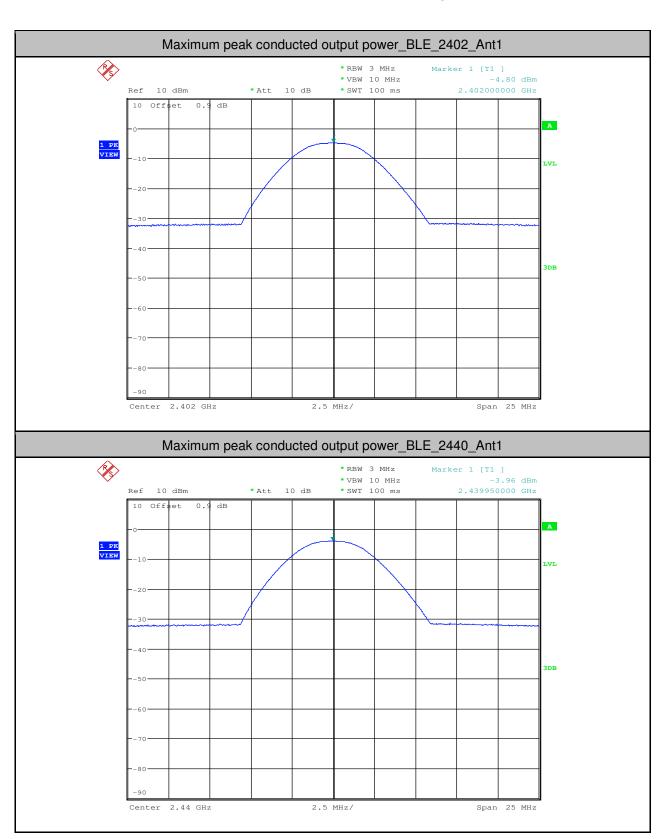
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-4.8	<30	PASS
BLE	2440	Ant1	-3.96	<30	PASS
BLE	2480	Ant1	-3.41	<30	PASS





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#### 3. Maximum Peak power spectral density

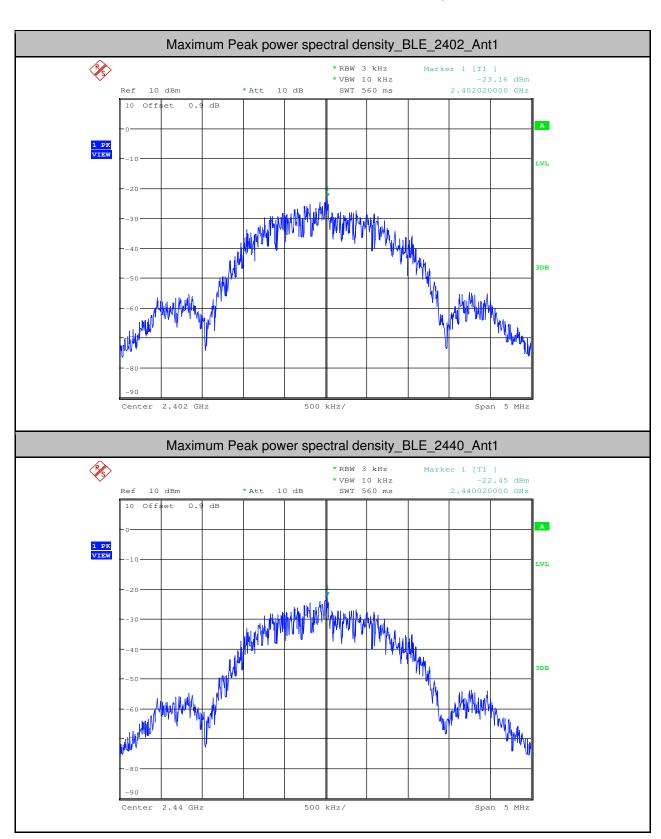
Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-23.16	<8.00	PASS
BLE	2440	Ant1	-22.45	<8.00	PASS
BLE	2480	Ant1	-21.81	<8.00	PASS





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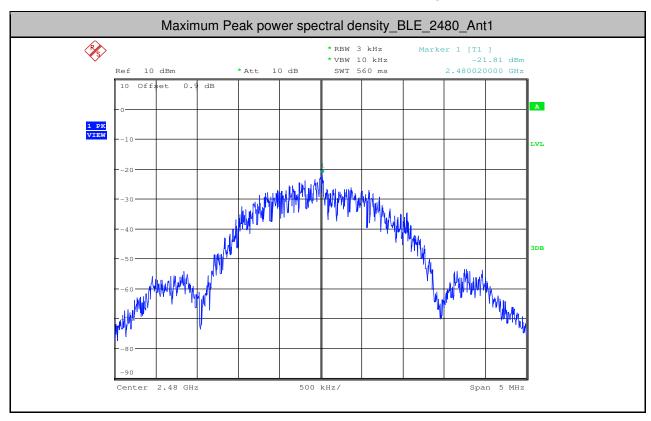
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#### 4.Band-edge for RF Conducted Emissions

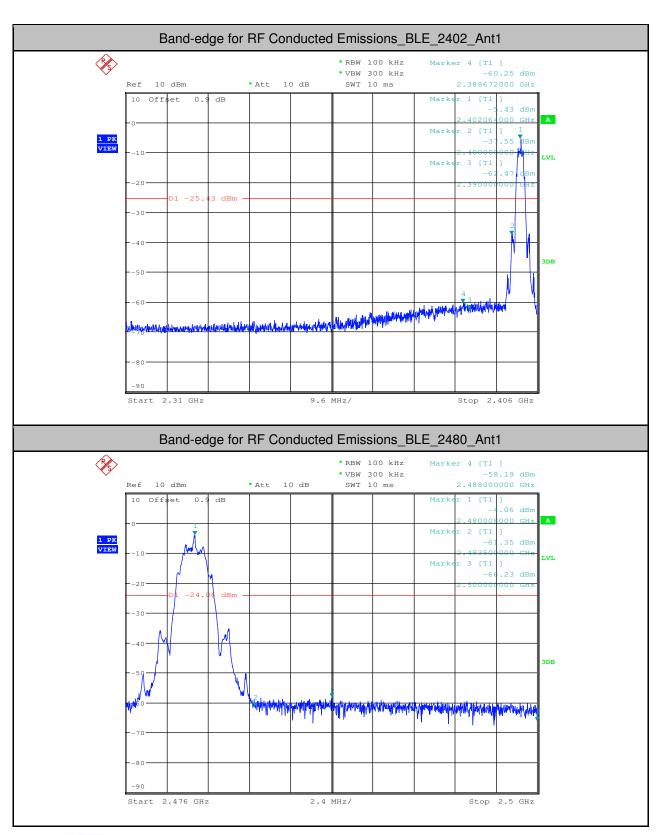
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-5.430	-60.254	<-25.43	PASS
BLE	2480	Ant1	-4.060	-58.192	<-24.06	PASS





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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	100	300	-5.22	-55.340	<-25.22	PASS
BLE	2402	10000	25000	1000	3000	-5.22	-54.030	<-25.22	PASS
BLE	2440	30	10000	100	300	-4.4	-55.670	<-24.4	PASS
BLE	2440	10000	25000	1000	3000	-4.4	-54.710	<-24.4	PASS
BLE	2480	30	10000	100	300	-3.79	-55.310	<-23.79	PASS
BLE	2480	10000	25000	1000	3000	-3.79	-54.200	<-23.79	PASS



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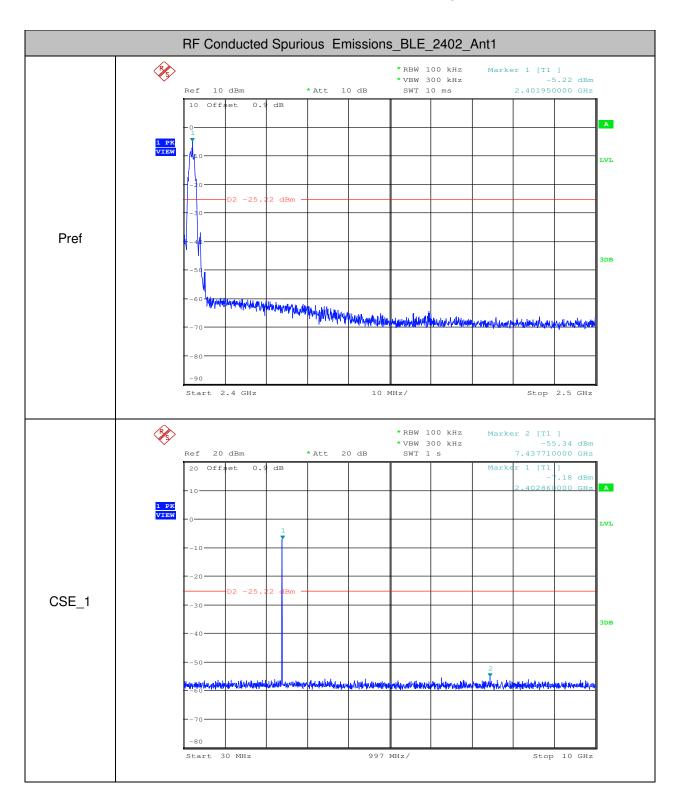
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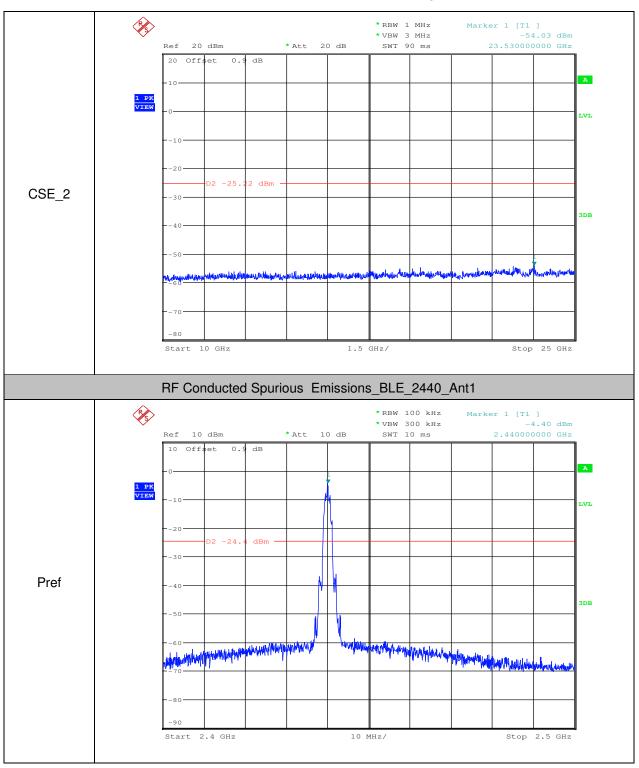
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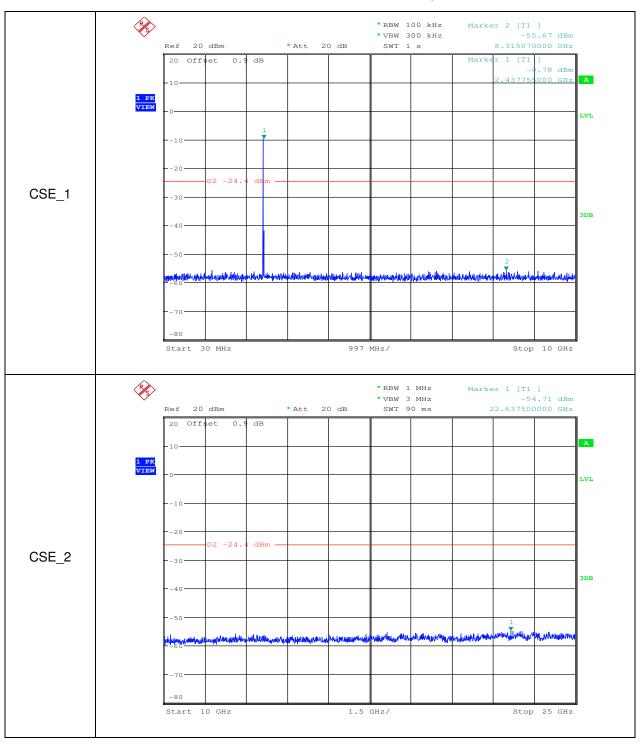
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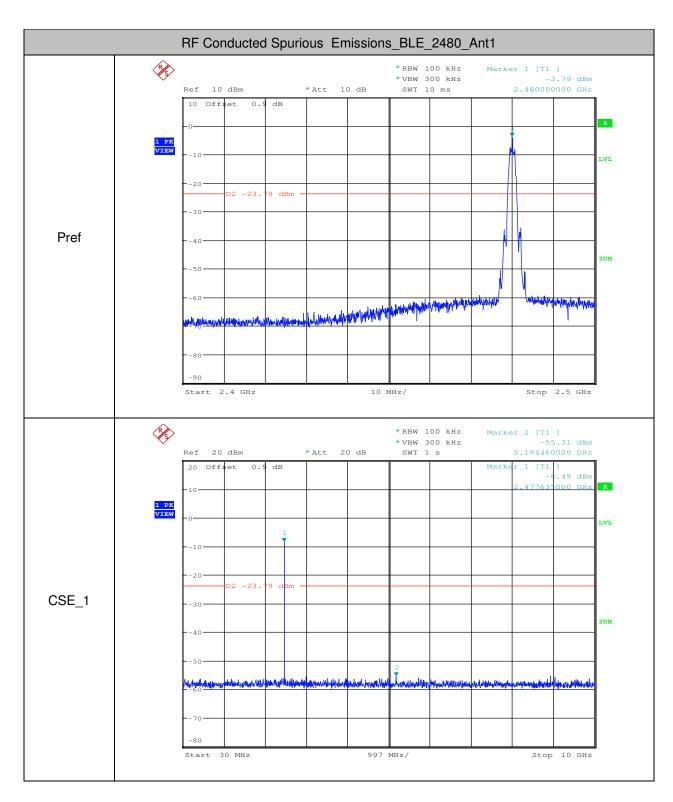
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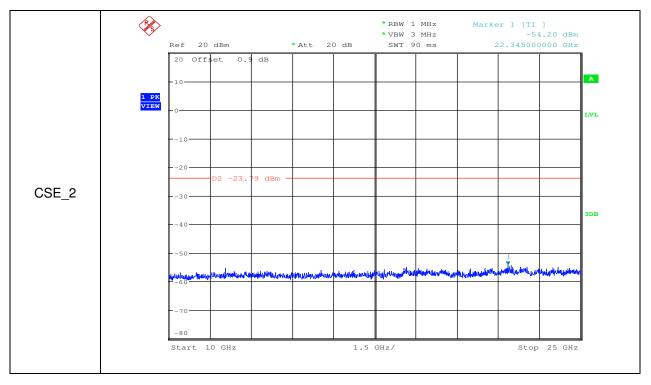
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#### 9.4 Appendix 15.247-2M-Right earbuds:

#### 1.6dB Bandwidth

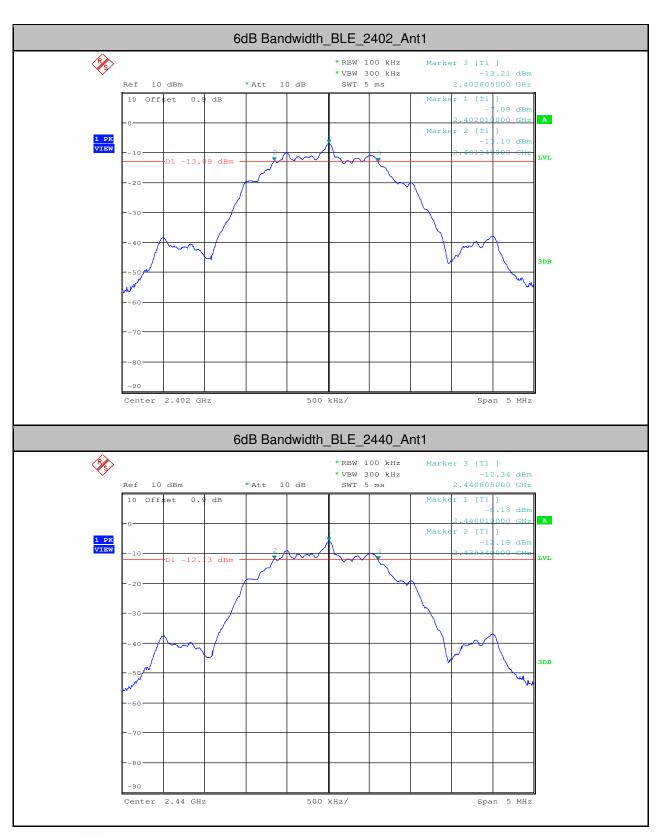
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	1.265	>=0.5	PASS
BLE	2440	Ant1	1.265	>=0.5	PASS
BLE	2480	Ant1	1.265	>=0.5	PASS





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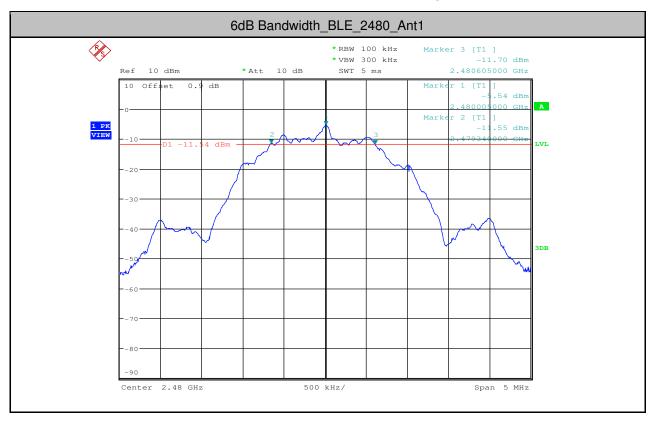
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#### 2.Maximum peak conducted output power

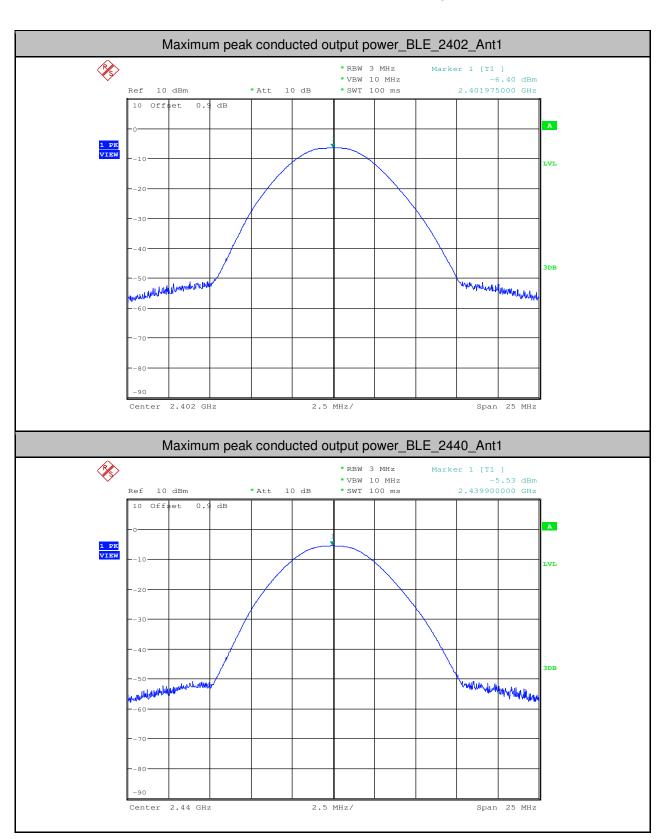
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-6.4	<30	PASS
BLE	2440	Ant1	-5.53	<30	PASS
BLE	2480	Ant1	-4.86	<30	PASS





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#### 3. Maximum Peak power spectral density

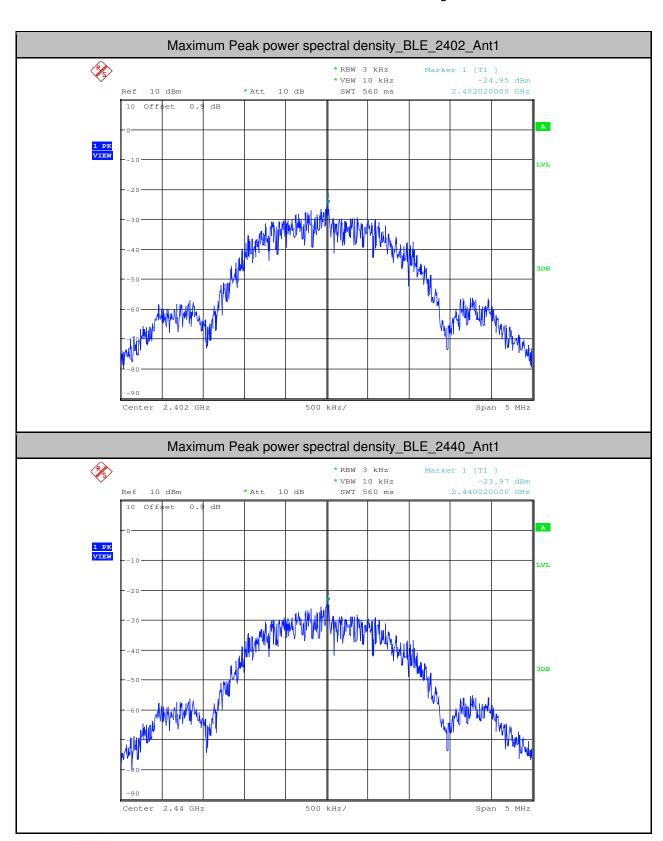
Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-24.95	<8.00	PASS
BLE	2440	Ant1	-23.97	<8.00	PASS
BLE	2480	Ant1	-23.31	<8.00	PASS





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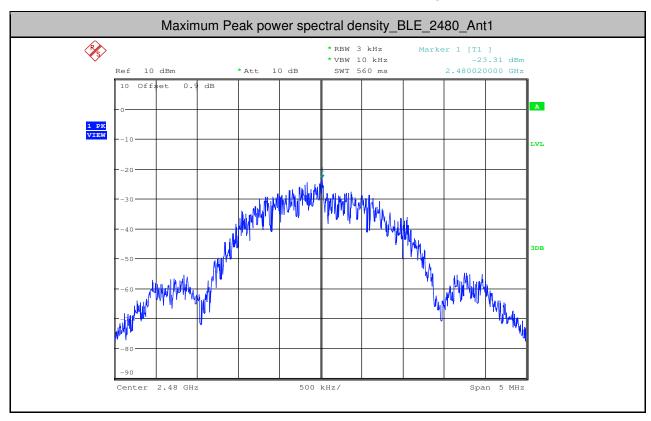
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#### 4.Band-edge for RF Conducted Emissions

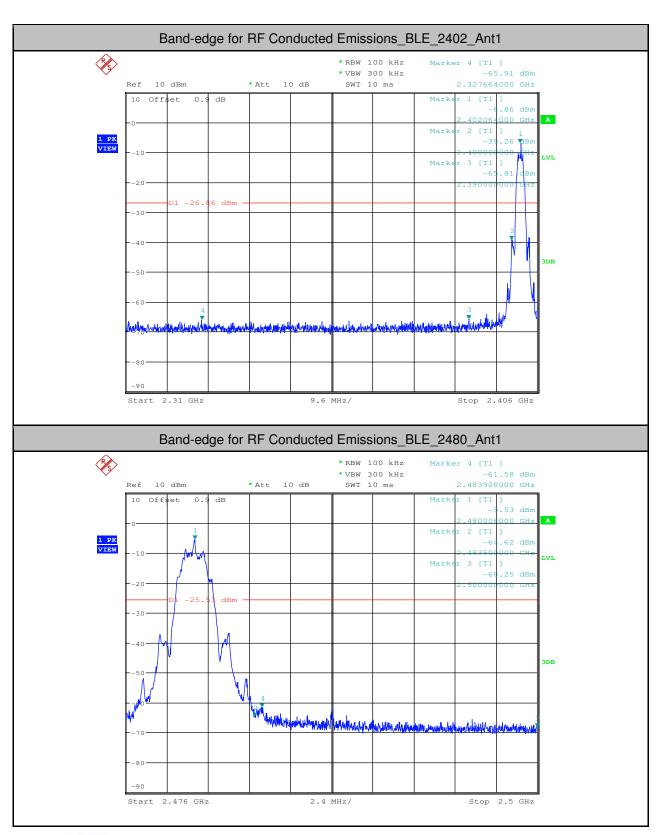
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Level		Verdict
BLE	2402	Ant1	-6.860	-65.910	<-26.86	PASS
BLE	2480	Ant1	-5.530	-61.580	<-25.53	PASS





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#### 6.RF Conducted Spurious Emissions

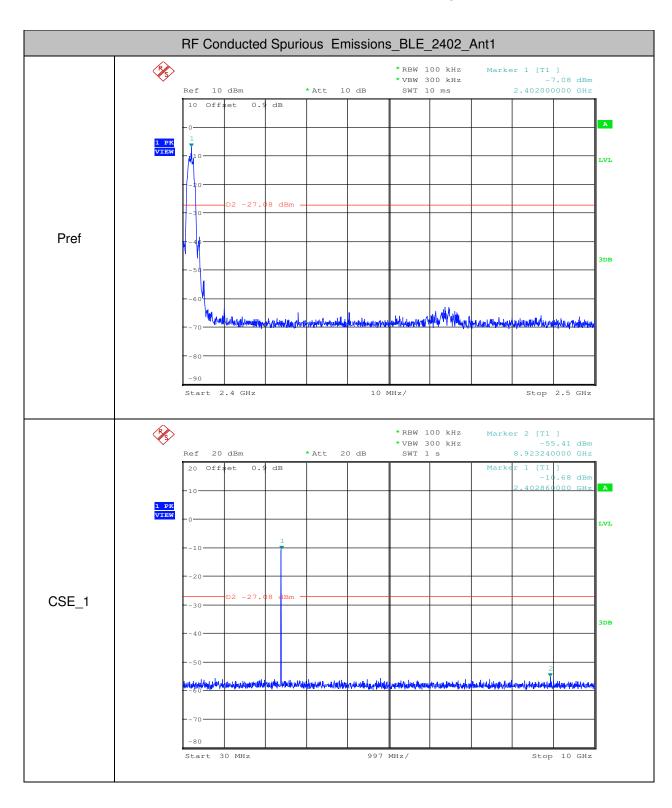
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	100	300	-7.08	-55.410	<-27.08	PASS
BLE	2402	10000	25000	1000	3000	-7.08	-54.040	<-27.08	PASS
BLE	2440	30	10000	100	300	-6.02	-55.420	<-26.02	PASS
BLE	2440	10000	25000	1000	3000	-6.02	-53.620	<-26.02	PASS
BLE	2480	30	10000	100	300	-5.48	-53.510	<-25.48	PASS
BLE	2480	10000	25000	1000	3000	-5.48	-53.810	<-25.48	PASS





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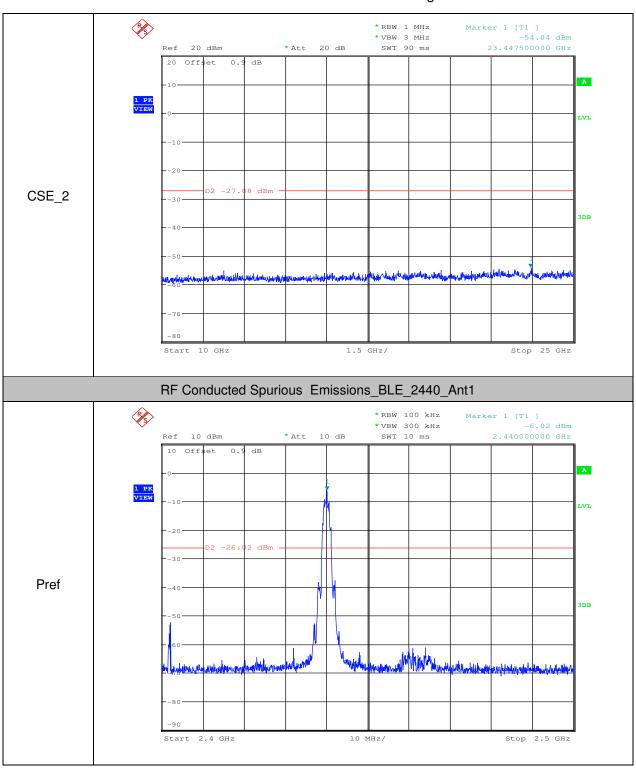
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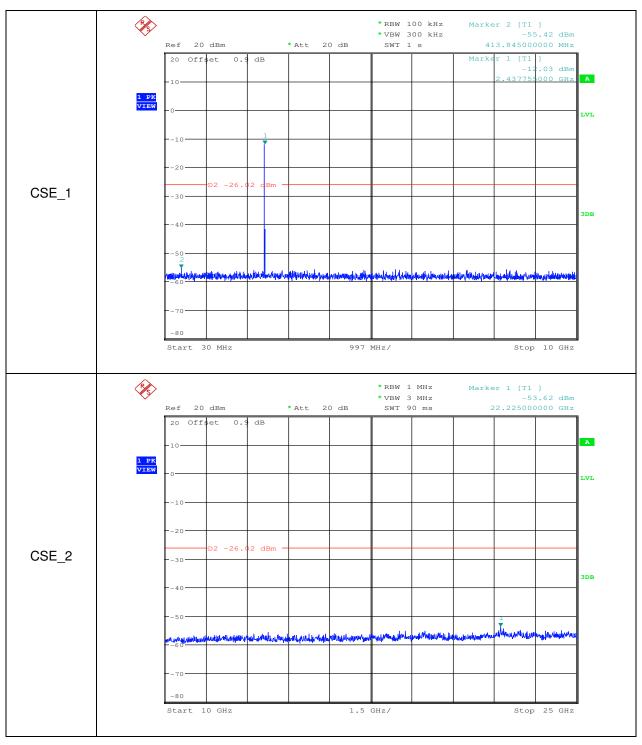
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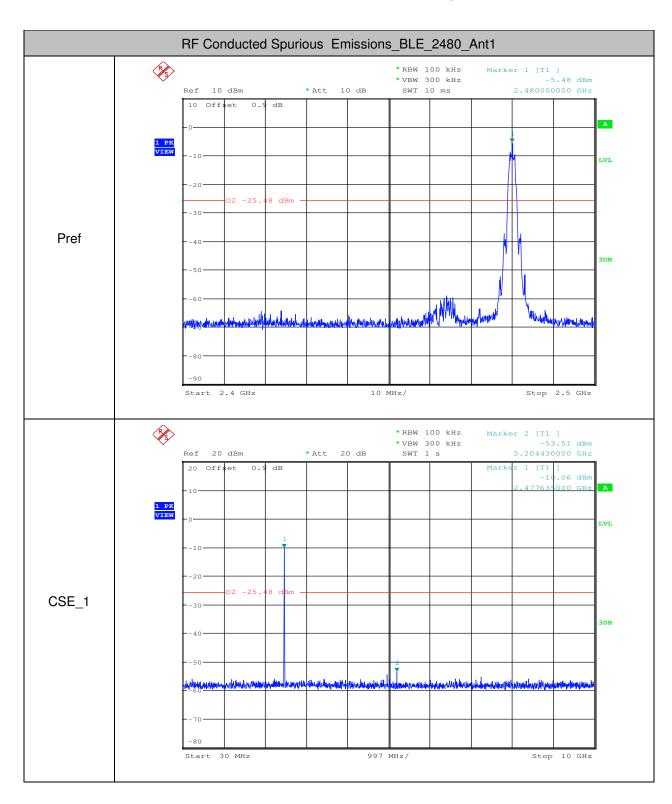
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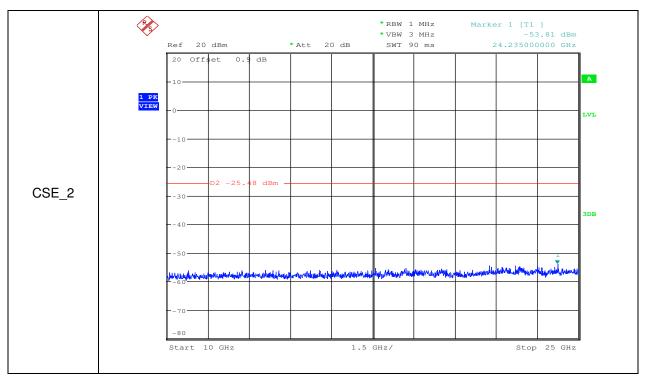
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