



**SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch**

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Report No.: GZEM190801475003
Page: 1 of 60
FCC ID: PGWOT0062

TEST REPORT

Application No.: GZEM1908014750CR
Applicant: The Ketchum Group, Inc. dba Outdoor Technology
Address of Applicant: 25201 PASEO DE ALICIA STE 105 LAGUNA HILLS, CA 92653, USA
Manufacturer: The Ketchum Group, Inc. dba Outdoor Technology
Address of Manufacturer: 25201 PASEO DE ALICIA STE 105 LAGUNA HILLS, CA 92653, USA
Factory: LEZUN LIMITED
Address of Factory: 3F, BD 1C, HUIYE TECHNOLOGY PARK, GUANGUANG RD, GUANGMING DISTRICT, SHENZHEN, CHINA

Equipment Under Test (EUT):

FCC ID: PGWOT0062

EUT Name: CHIPS ULTRA

Model No.: OT0062

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

Date of Receipt: 2019-08-02

Date of Test: 2019-08-07 to 2019-08-13

Date of Issue: 2019-08-20

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

Kobe Jian

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-08-20		Original

Authorized for issue by:			
Tested By			2019-08-07 to 2019-08-13
			Date
Checked By			2019-08-20
			Date
	Ricky_Liu /Reviewer		



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2 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(c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark: The RF conducted test is performed on right earbuds and the Radiated test are performed on two earbuds, due to their same Bluetooth IC but different PCB layout.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	BOX(2000mAh rechargeable battery) INPUT: DC5V 1A OUTPUT:DC5V 1A Earbud (250mAh rechargeable battery) INPUT: 5V 170mA
Test Voltage:	DC 3.7V
Cable:	N/A
Antenna Gain	2dBi
Antenna Type	Integral
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz
Remark	Both of two earbuds character are same

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^{\circ}\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

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

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2019-02-24	2020-02-23
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01



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MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01
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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15



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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(c)

6.1.2 Conclusion

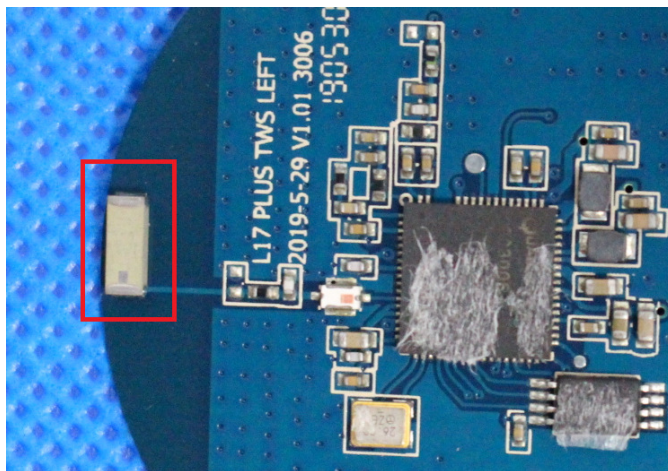
Standard Requirement:

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.

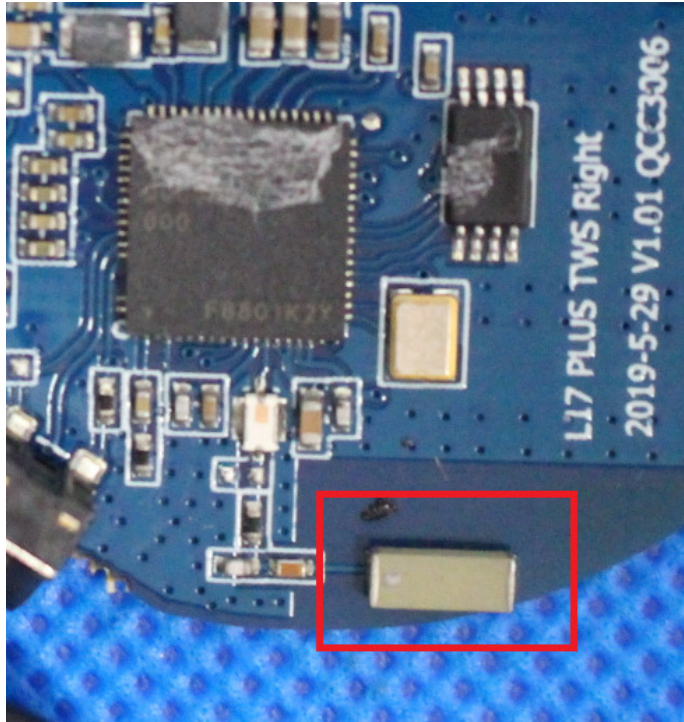
15.247(b) (4) requirement:

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.

Left earbuds:



Right earbuds:



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.

7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1
Limit: ≥ 500 kHz

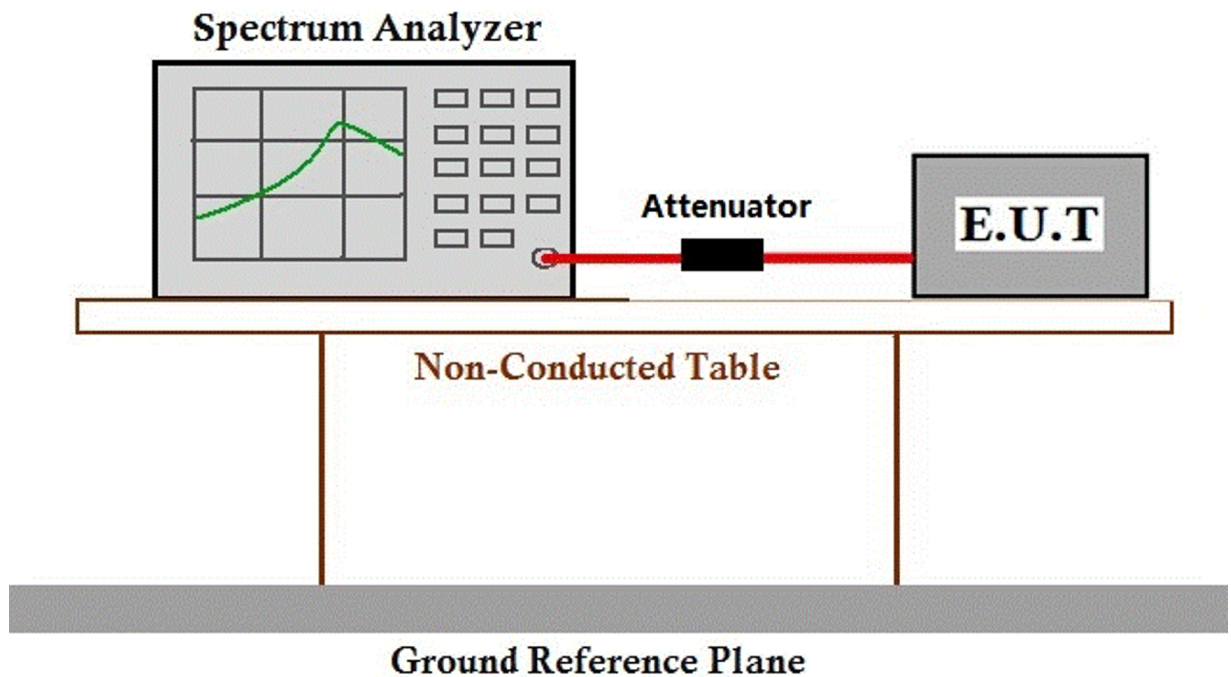
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 66.1 % RH Atmospheric Pressure: 1020 mbar

Test mode e:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

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

Limit:

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



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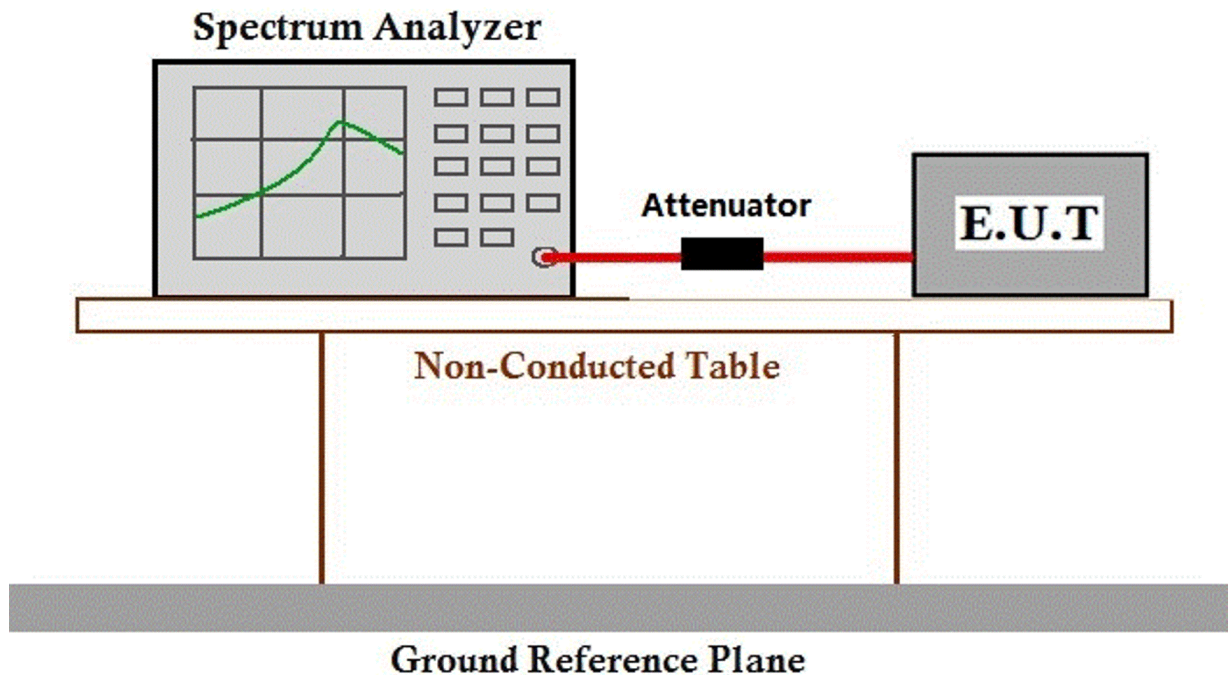
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 66.1 % RH Atmospheric Pressure: 1020 mbar

Test mode e:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.2.2 Test Setup Diagram



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: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

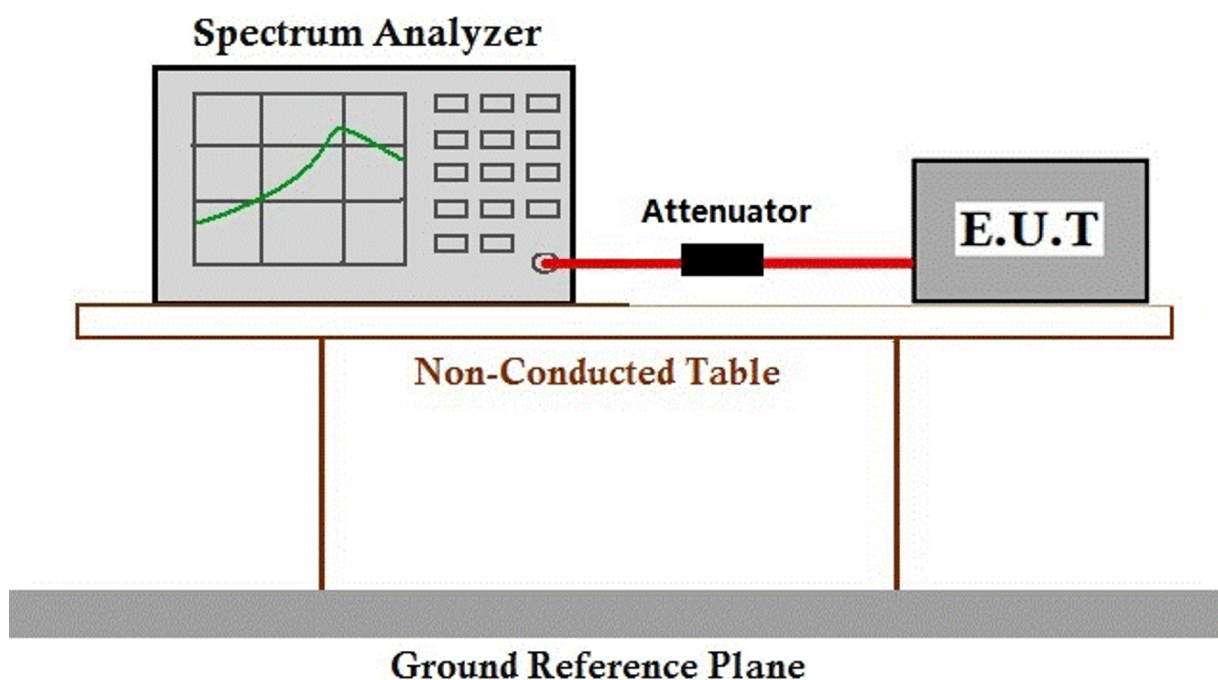
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 66.1 % RH Atmospheric Pressure: 1020 mbar

Test mode e:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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



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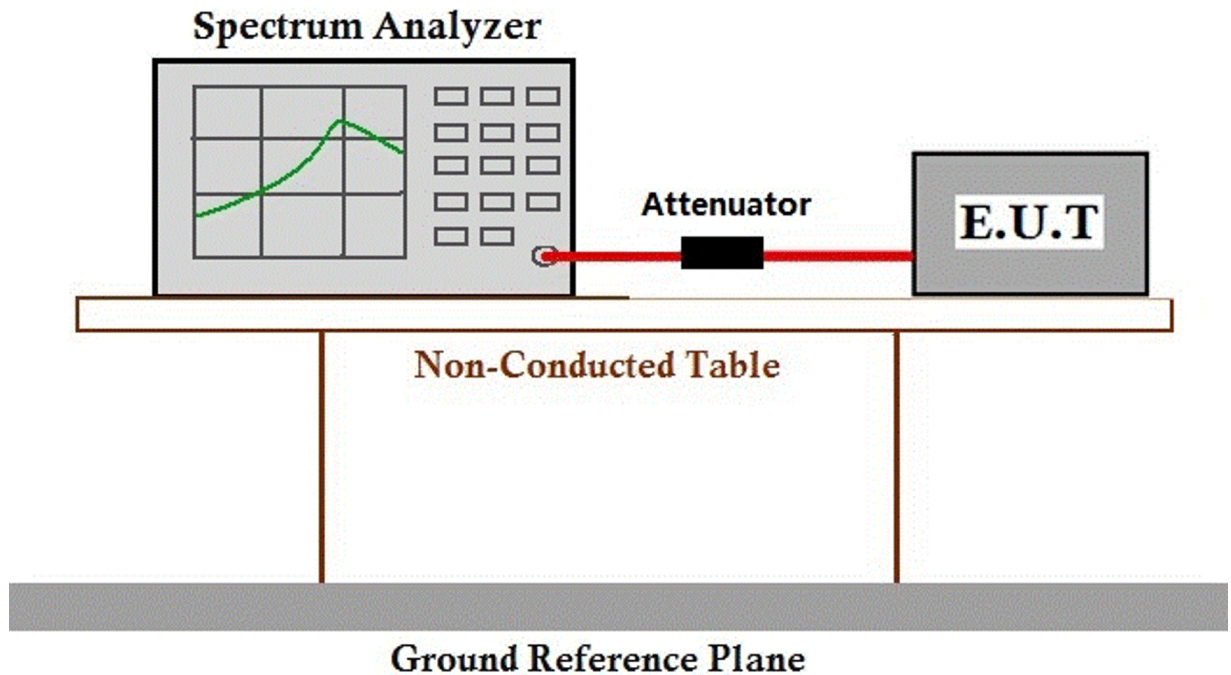
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 66.1 % RH Atmospheric Pressure: 1020 mbar

Test mode e:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

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



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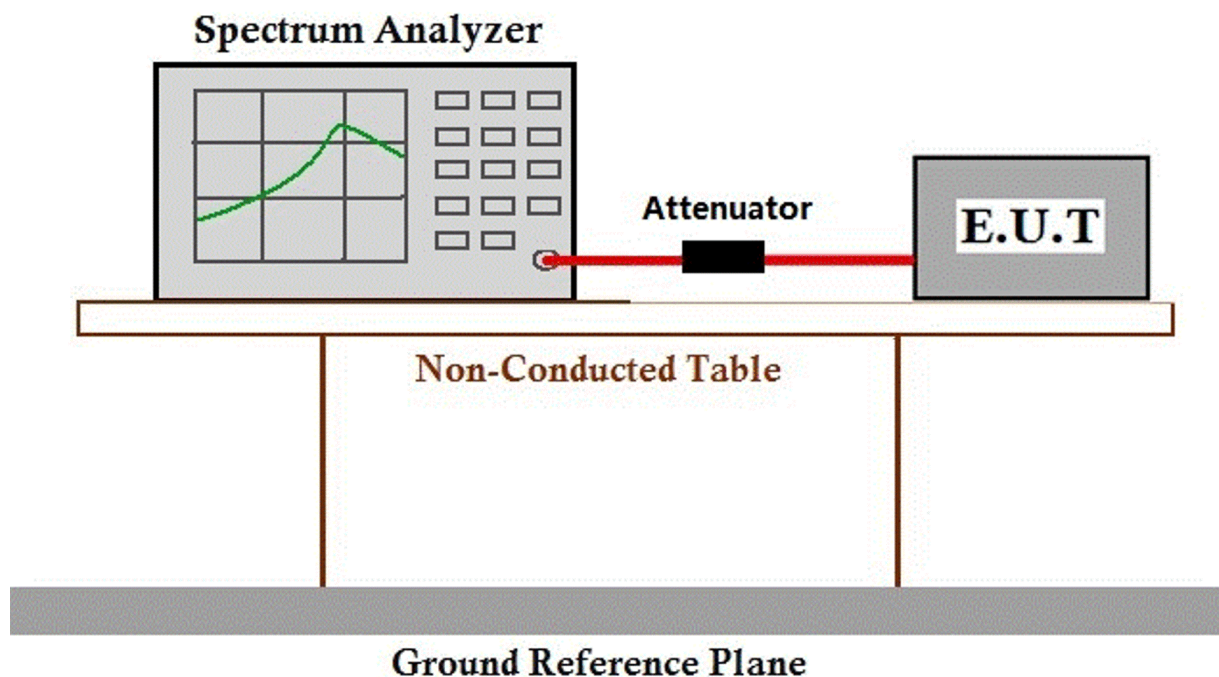
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 66.1 % RH Atmospheric Pressure: 1020 mbar

Test mode e:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.6 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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



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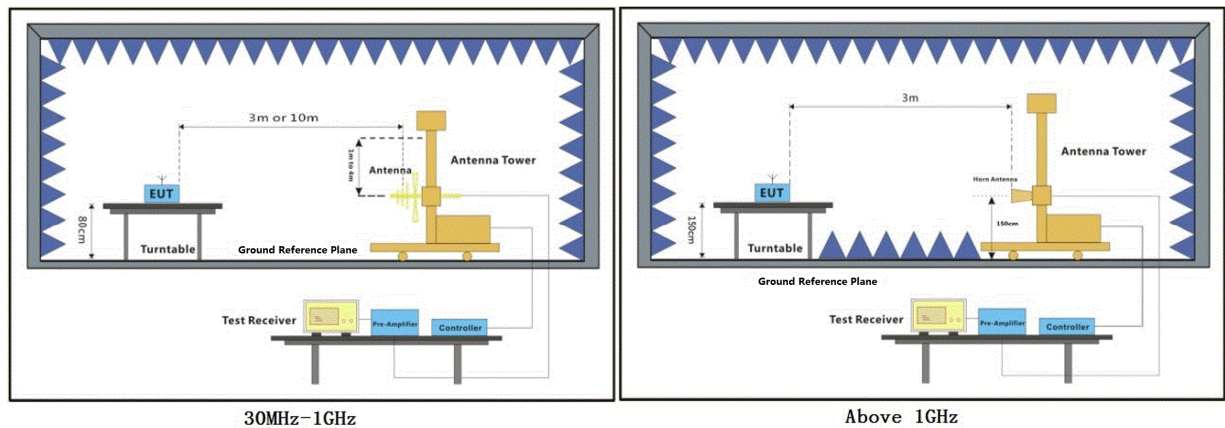
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode e:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.6.2 Test Setup Diagram



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.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Left earbuds:

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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	30.39	26.25	3.32	37.44	22.52	54.00	-31.48	HORIZONTAL Average
2	2310.000	45.57	26.25	3.32	37.44	37.70	74.00	-36.30	HORIZONTAL Peak
3	2390.000	31.58	26.43	3.48	37.42	24.07	54.00	-29.93	HORIZONTAL Average
4	2390.000	46.44	26.43	3.48	37.42	38.93	74.00	-35.07	HORIZONTAL Peak
5	2483.500	33.59	26.58	3.53	37.40	26.30	54.00	-27.70	HORIZONTAL Average
6	2483.500	45.69	26.58	3.53	37.40	38.40	74.00	-35.60	HORIZONTAL Peak
7	2500.000	32.75	26.60	3.40	37.39	25.36	54.00	-28.64	HORIZONTAL Average
8	2500.000	47.51	26.60	3.40	37.39	40.12	74.00	-33.88	HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.24	26.25	3.32	37.44	26.37	54.00	-27.63	VERTICAL Average
2	2310.000	46.44	26.25	3.32	37.44	38.57	74.00	-35.43	VERTICAL Peak
3	2390.000	31.92	26.43	3.48	37.42	24.41	54.00	-29.59	VERTICAL Average
4	2390.000	46.84	26.43	3.48	37.42	39.33	74.00	-34.67	VERTICAL Peak
5	2483.500	32.00	26.58	3.53	37.40	24.71	54.00	-29.29	VERTICAL Average
6	2483.500	45.21	26.58	3.53	37.40	37.92	74.00	-36.08	VERTICAL Peak
7	2500.000	32.11	26.60	3.40	37.39	24.72	54.00	-29.28	VERTICAL Average
8	2500.000	45.85	26.60	3.40	37.39	38.46	74.00	-35.54	VERTICAL Peak



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 Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	32.91	26.25	3.32	37.44	25.04	54.00	-28.96 HORIZONTAL Average
2	2310.000	46.87	26.25	3.32	37.44	39.00	74.00	-35.00 HORIZONTAL Peak
3	2390.000	31.19	26.43	3.48	37.42	23.68	54.00	-30.32 HORIZONTAL Average
4	2390.000	46.68	26.43	3.48	37.42	39.17	74.00	-34.83 HORIZONTAL Peak
5	2483.500	34.11	26.58	3.53	37.40	26.82	54.00	-27.18 HORIZONTAL Average
6	2483.500	49.76	26.58	3.53	37.40	42.47	74.00	-31.53 HORIZONTAL Peak
7	2500.000	32.21	26.60	3.40	37.39	24.82	54.00	-29.18 HORIZONTAL Average
8	2500.000	46.90	26.60	3.40	37.39	39.51	74.00	-34.49 HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	32.45	26.25	3.32	37.44	24.58	54.00	-29.42 VERTICAL Average
2	2310.000	46.06	26.25	3.32	37.44	38.19	74.00	-35.81 VERTICAL Peak
3	2390.000	31.76	26.43	3.48	37.42	24.25	54.00	-29.75 VERTICAL Average
4	2390.000	46.61	26.43	3.48	37.42	39.10	74.00	-34.90 VERTICAL Peak
5	2483.500	32.59	26.58	3.53	37.40	25.30	54.00	-28.70 VERTICAL Average
6	2483.500	45.96	26.58	3.53	37.40	38.67	74.00	-35.33 VERTICAL Peak
7	2500.000	32.09	26.60	3.40	37.39	24.70	54.00	-29.30 VERTICAL Average
8	2500.000	46.38	26.60	3.40	37.39	38.99	74.00	-35.01 VERTICAL Peak



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Right earbuds:

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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	45.24	26.25	3.32	37.44	37.37	54.00	-16.63	HORIZONTAL Average
2	2310.000	44.23	26.25	3.32	37.44	36.36	74.00	-37.64	HORIZONTAL Peak
3	2390.000	32.04	26.43	3.48	37.42	24.53	54.00	-29.47	HORIZONTAL Average
4	2390.000	44.34	26.43	3.48	37.42	36.83	74.00	-37.17	HORIZONTAL Peak
5	2483.500	33.61	26.58	3.53	37.40	26.32	54.00	-27.68	HORIZONTAL Average
6	2483.500	45.21	26.58	3.53	37.40	37.92	74.00	-36.08	HORIZONTAL Peak
7	2500.000	33.13	26.60	3.40	37.39	25.74	54.00	-28.26	HORIZONTAL Average
8	2500.000	46.42	26.60	3.40	37.39	39.03	74.00	-34.97	HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	32.73	26.25	3.32	37.44	24.86	54.00	-29.14	VERTICAL Average
2	2310.000	45.05	26.25	3.32	37.44	37.18	74.00	-36.82	VERTICAL Peak
3	2390.000	33.54	26.43	3.48	37.42	26.03	54.00	-27.97	VERTICAL Average
4	2390.000	44.77	26.43	3.48	37.42	37.26	74.00	-36.74	VERTICAL Peak
5	2483.500	32.89	26.58	3.53	37.40	25.60	54.00	-28.40	VERTICAL Average
6	2483.500	45.41	26.58	3.53	37.40	38.12	74.00	-35.88	VERTICAL Peak
7	2500.000	34.88	26.60	3.40	37.39	27.49	54.00	-26.51	VERTICAL Average
8	2500.000	46.86	26.60	3.40	37.39	39.47	74.00	-34.53	VERTICAL Peak



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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.55	26.25	3.32	37.44	26.68	54.00	-27.32	HORIZONTAL Average
2	2310.000	44.48	26.25	3.32	37.44	36.61	74.00	-37.39	HORIZONTAL Peak
3	2390.000	34.77	26.43	3.48	37.42	27.26	54.00	-26.74	HORIZONTAL Average
4	2390.000	45.36	26.43	3.48	37.42	37.85	74.00	-36.15	HORIZONTAL Peak
5	2483.500	42.25	26.58	3.53	37.40	34.96	54.00	-19.04	HORIZONTAL Average
6	2483.500	60.16	26.58	3.53	37.40	52.87	74.00	-21.13	HORIZONTAL Peak
7	2500.000	33.10	26.60	3.40	37.39	25.71	54.00	-28.29	HORIZONTAL Average
8	2500.000	45.67	26.60	3.40	37.39	38.28	74.00	-35.72	HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.43	26.25	3.32	37.44	26.56	54.00	-27.44	VERTICAL Average
2	2310.000	44.56	26.25	3.32	37.44	36.69	74.00	-37.31	VERTICAL Peak
3	2390.000	32.80	26.43	3.48	37.42	25.29	54.00	-28.71	VERTICAL Average
4	2390.000	44.78	26.43	3.48	37.42	37.27	74.00	-36.73	VERTICAL Peak
5	2483.500	40.84	26.58	3.53	37.40	33.55	54.00	-20.45	VERTICAL Average
6	2483.500	60.27	26.58	3.53	37.40	52.98	74.00	-21.02	VERTICAL Peak
7	2500.000	35.48	26.60	3.40	37.39	28.09	54.00	-25.91	VERTICAL Average
8	2500.000	45.75	26.60	3.40	37.39	38.36	74.00	-35.64	VERTICAL Peak



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7.7 Radiated Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

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

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



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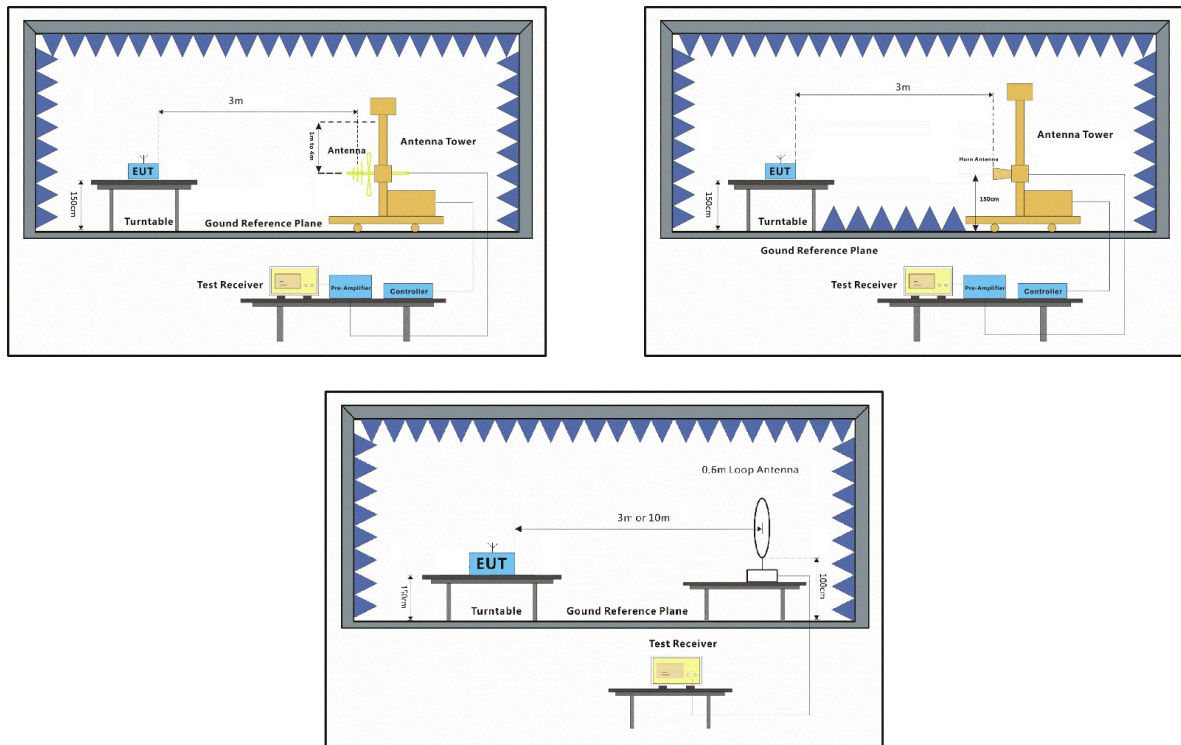
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode e:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.7.2 Test Setup Diagram



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



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Left earbuds:

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3790.361	32.51	28.97	4.60	36.92	29.16	54.00	-24.84 HORIZONTAL Average
2	3790.361	45.12	28.97	4.60	36.92	41.77	74.00	-32.23 HORIZONTAL Peak
3	4804.888	32.43	30.79	5.40	36.94	31.68	54.00	-22.32 HORIZONTAL Average
4	4804.888	45.94	30.79	5.40	36.94	45.19	74.00	-28.81 HORIZONTAL Peak
5	7206.122	32.38	35.45	5.98	36.93	36.88	54.00	-17.12 HORIZONTAL Average
6	7206.122	44.88	35.45	5.98	36.93	49.38	74.00	-24.62 HORIZONTAL Peak
7	8489.882	32.42	36.10	6.70	36.94	38.28	54.00	-15.72 HORIZONTAL Average
8	8489.882	45.51	36.10	6.70	36.94	51.37	74.00	-22.63 HORIZONTAL Peak
9	9608.018	31.62	37.51	7.07	37.08	39.12	54.00	-14.88 HORIZONTAL Average
10	9608.018	45.39	37.51	7.07	37.08	52.89	74.00	-21.11 HORIZONTAL Peak
11	12010.250	28.91	39.50	8.19	37.20	39.40	54.00	-14.60 HORIZONTAL Average
12	12010.250	42.81	39.50	8.19	37.20	53.30	74.00	-20.70 HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3890.255	33.45	29.27	4.60	36.91	30.41	54.00	-23.59 VERTICAL Average
2	3890.255	45.69	29.27	4.60	36.91	42.65	74.00	-31.35 VERTICAL Peak
3	4804.300	32.65	30.79	5.40	36.94	31.90	54.00	-22.10 VERTICAL Average
4	4804.300	46.40	30.79	5.40	36.94	45.65	74.00	-28.35 VERTICAL Peak
5	7206.309	31.76	35.45	5.98	36.93	36.26	54.00	-17.74 VERTICAL Average
6	7206.309	45.03	35.45	5.98	36.93	49.53	74.00	-24.47 VERTICAL Peak
7	8713.630	30.85	36.27	7.07	36.96	37.23	54.00	-16.77 VERTICAL Average
8	8713.630	45.02	36.27	7.07	36.96	51.40	74.00	-22.60 VERTICAL Peak
9	9608.432	32.11	37.51	7.07	37.08	39.61	54.00	-14.39 VERTICAL Average
10	9608.432	45.65	37.51	7.07	37.08	53.15	74.00	-20.85 VERTICAL Peak
11	12010.760	26.50	39.50	8.19	37.20	36.99	54.00	-17.01 VERTICAL Average
12	12010.760	41.88	39.50	8.19	37.20	52.37	74.00	-21.63 VERTICAL Peak



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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3834.438	32.52	29.12	4.60	36.91	29.33	54.00	-24.67 HORIZONTAL Average
2	3834.438	44.78	29.12	4.60	36.91	41.59	74.00	-32.41 HORIZONTAL Peak
3	4882.977	35.02	30.95	5.52	36.95	34.54	54.00	-19.46 HORIZONTAL Average
4	4882.977	46.18	30.95	5.52	36.95	45.70	74.00	-28.30 HORIZONTAL Peak
5	7323.172	33.19	35.74	6.13	36.92	38.14	54.00	-15.86 HORIZONTAL Average
6	7323.172	44.12	35.74	6.13	36.92	49.07	74.00	-24.93 HORIZONTAL Peak
7	8489.882	31.53	36.10	6.70	36.94	37.39	54.00	-16.61 HORIZONTAL Average
8	8489.882	44.67	36.10	6.70	36.94	50.53	74.00	-23.47 HORIZONTAL Peak
9	9764.916	32.23	37.70	7.02	37.09	39.86	54.00	-14.14 HORIZONTAL Average
10	9764.916	44.98	37.70	7.02	37.09	52.61	74.00	-21.39 HORIZONTAL Peak
11	12205.200	27.60	39.21	8.08	37.06	37.83	54.00	-16.17 HORIZONTAL Average
12	12205.200	40.65	39.21	8.08	37.06	50.88	74.00	-23.12 HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3856.668	31.43	29.19	4.60	36.91	28.31	54.00	-25.69 VERTICAL Average
2	3856.668	44.65	29.19	4.60	36.91	41.53	74.00	-32.47 VERTICAL Peak
3	4882.751	33.40	30.95	5.52	36.95	32.92	54.00	-21.08 VERTICAL Average
4	4882.751	44.87	30.95	5.52	36.95	44.39	74.00	-29.61 VERTICAL Peak
5	7323.122	33.38	35.74	6.13	36.92	38.33	54.00	-15.67 VERTICAL Average
6	7323.122	44.68	35.74	6.13	36.92	49.63	74.00	-24.37 VERTICAL Peak
7	8539.102	32.01	36.13	6.77	36.94	37.97	54.00	-16.03 VERTICAL Average
8	8539.102	44.16	36.13	6.77	36.94	50.12	74.00	-23.88 VERTICAL Peak
9	9764.432	34.34	37.70	7.02	37.09	41.97	54.00	-12.03 VERTICAL Average
10	9764.432	45.03	37.70	7.02	37.09	52.66	74.00	-21.34 VERTICAL Peak
11	12205.760	29.42	39.21	8.08	37.06	39.65	54.00	-14.35 VERTICAL Average
12	12205.760	41.77	39.21	8.08	37.06	52.00	74.00	-22.00 VERTICAL Peak



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

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3790.361	34.56	28.97	4.60	36.92	31.21	54.00	-22.79	HORIZONTAL	Average
2	3790.361	46.17	28.97	4.60	36.92	42.82	74.00	-31.18	HORIZONTAL	Peak
3	4960.887	33.71	31.05	5.65	36.96	33.45	54.00	-20.55	HORIZONTAL	Average
4	4960.887	45.11	31.05	5.65	36.96	44.85	74.00	-29.15	HORIZONTAL	Peak
5	7440.015	31.73	35.92	6.22	36.92	36.95	54.00	-17.05	HORIZONTAL	Average
6	7440.015	44.26	35.92	6.22	36.92	49.48	74.00	-24.52	HORIZONTAL	Peak
7	8489.882	31.92	36.10	6.70	36.94	37.78	54.00	-16.22	HORIZONTAL	Average
8	8489.882	44.30	36.10	6.70	36.94	50.16	74.00	-23.84	HORIZONTAL	Peak
9	9920.432	30.49	37.92	6.96	37.10	38.27	54.00	-15.73	HORIZONTAL	Average
10	9920.432	44.86	37.92	6.96	37.10	52.64	74.00	-21.36	HORIZONTAL	Peak
11	12400.780	27.65	38.93	7.97	36.90	37.65	54.00	-16.35	HORIZONTAL	Average
12	12400.780	42.24	38.93	7.97	36.90	52.24	74.00	-21.76	HORIZONTAL	Peak

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

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3823.371	33.45	29.08	4.60	36.91	30.22	54.00	-23.78	VERTICAL	Average
2	3823.371	45.14	29.08	4.60	36.91	41.91	74.00	-32.09	VERTICAL	Peak
3	4960.977	33.84	31.05	5.65	36.96	33.58	54.00	-20.42	VERTICAL	Average
4	4960.977	45.47	31.05	5.65	36.96	45.21	74.00	-28.79	VERTICAL	Peak
5	7440.144	32.92	35.92	6.22	36.92	38.14	54.00	-15.86	VERTICAL	Average
6	7440.144	45.37	35.92	6.22	36.92	50.59	74.00	-23.41	VERTICAL	Peak
7	8465.379	31.37	36.11	6.68	36.94	37.22	54.00	-16.78	VERTICAL	Average
8	8465.379	44.13	36.11	6.68	36.94	49.98	74.00	-24.02	VERTICAL	Peak
9	9920.588	30.16	37.92	6.96	37.10	37.94	54.00	-16.06	VERTICAL	Average
10	9920.588	43.70	37.92	6.96	37.10	51.48	74.00	-22.52	VERTICAL	Peak
11	12400.180	27.73	38.93	7.97	36.90	37.73	54.00	-16.27	VERTICAL	Average
12	12400.180	41.71	38.93	7.97	36.90	51.71	74.00	-22.29	VERTICAL	Peak



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Right earbuds:

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3587.818	37.18	28.11	4.49	36.94	32.84	54.00	-21.16 HORIZONTAL Average
2	3587.818	46.08	28.11	4.49	36.94	41.74	74.00	-32.26 HORIZONTAL Peak
3	4804.419	38.49	30.79	5.40	36.94	37.74	54.00	-16.26 HORIZONTAL Average
4	4804.419	49.22	30.79	5.40	36.94	48.47	74.00	-25.53 HORIZONTAL Peak
5	6322.136	39.75	33.68	5.95	36.99	42.39	54.00	-11.61 HORIZONTAL Average
6	6322.136	46.34	33.68	5.95	36.99	48.98	74.00	-25.02 HORIZONTAL Peak
7	7206.309	37.41	35.45	5.98	36.93	41.91	54.00	-12.09 HORIZONTAL Average
8	7206.309	48.97	35.45	5.98	36.93	53.47	74.00	-20.53 HORIZONTAL Peak
9	9608.257	36.49	37.51	7.07	37.08	43.99	54.00	-10.01 HORIZONTAL Average
10	9608.257	45.49	37.51	7.07	37.08	52.99	74.00	-21.01 HORIZONTAL Peak
11	12010.470	34.11	39.50	8.19	37.20	44.60	54.00	-9.40 HORIZONTAL Average
12	12010.470	44.21	39.50	8.19	37.20	54.70	74.00	-19.30 HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3935.493	36.49	29.37	4.60	36.90	33.56	54.00	-20.44 VERTICAL Average
2	3935.493	45.76	29.37	4.60	36.90	42.83	74.00	-31.17 VERTICAL Peak
3	4804.419	39.94	30.79	5.40	36.94	39.19	54.00	-14.81 VERTICAL Average
4	4804.419	49.04	30.79	5.40	36.94	48.29	74.00	-25.71 VERTICAL Peak
5	5599.412	35.19	31.96	6.30	36.99	36.46	54.00	-17.54 VERTICAL Average
6	5599.412	44.92	31.96	6.30	36.99	46.19	74.00	-27.81 VERTICAL Peak
7	7206.309	39.82	35.45	5.98	36.93	44.32	54.00	-9.68 VERTICAL Average
8	7206.309	51.54	35.45	5.98	36.93	56.04	74.00	-17.96 VERTICAL Peak
9	9608.371	35.74	37.51	7.07	37.08	43.24	54.00	-10.76 VERTICAL Average
10	9608.371	45.65	37.51	7.07	37.08	53.15	74.00	-20.85 VERTICAL Peak
11	12010.520	35.27	39.50	8.19	37.20	45.76	54.00	-8.24 VERTICAL Average
12	12010.520	44.66	39.50	8.19	37.20	55.15	74.00	-18.85 VERTICAL Peak



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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3485.601	36.50	27.90	4.27	36.96	31.71	54.00	-22.29 HORIZONTAL Average
2	3485.601	46.77	27.90	4.27	36.96	41.98	74.00	-32.02 HORIZONTAL Peak
3	4884.948	38.84	30.95	5.52	36.95	38.36	54.00	-15.64 HORIZONTAL Average
4	4884.948	49.21	30.95	5.52	36.95	48.73	74.00	-25.27 HORIZONTAL Peak
5	5697.365	36.64	32.04	6.40	36.99	38.09	54.00	-15.91 HORIZONTAL Average
6	5697.365	45.69	32.04	6.40	36.99	47.14	74.00	-26.86 HORIZONTAL Peak
7	7323.122	36.49	35.74	6.13	36.92	41.44	54.00	-12.56 HORIZONTAL Average
8	7323.122	48.62	35.74	6.13	36.92	53.57	74.00	-20.43 HORIZONTAL Peak
9	9764.684	34.52	37.70	7.02	37.09	42.15	54.00	-11.85 HORIZONTAL Average
10	9764.684	45.51	37.70	7.02	37.09	53.14	74.00	-20.86 HORIZONTAL Peak
11	12205.270	32.97	39.21	8.08	37.06	43.20	54.00	-10.80 HORIZONTAL Average
12	12205.270	44.61	39.21	8.08	37.06	54.84	74.00	-19.16 HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3890.255	36.81	29.27	4.60	36.91	33.77	54.00	-20.23 VERTICAL Average
2	3890.255	46.04	29.27	4.60	36.91	43.00	74.00	-31.00 VERTICAL Peak
3	4884.948	43.48	30.95	5.52	36.95	43.00	54.00	-11.00 VERTICAL Average
4	4884.948	49.23	30.95	5.52	36.95	48.75	74.00	-25.25 VERTICAL Peak
5	5763.617	42.51	32.12	6.15	37.00	43.78	54.00	-10.22 VERTICAL Average
6	5763.617	50.84	32.12	6.15	37.00	52.11	74.00	-21.89 VERTICAL Peak
7	7323.010	39.05	35.74	6.13	36.92	44.00	54.00	-10.00 VERTICAL Average
8	7323.010	50.22	35.74	6.13	36.92	55.17	74.00	-18.83 VERTICAL Peak
9	9764.588	35.91	37.70	7.02	37.09	43.54	54.00	-10.46 VERTICAL Average
10	9764.588	45.18	37.70	7.02	37.09	52.81	74.00	-21.19 VERTICAL Peak
11	12205.210	35.18	39.21	8.08	37.06	45.41	54.00	-8.59 VERTICAL Average
12	12205.210	45.38	39.21	8.08	37.06	55.61	74.00	-18.39 VERTICAL Peak



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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4133.699	38.47	29.62	4.60	36.90	35.79	54.00	-18.21 HORIZONTAL Average
2	4133.699	46.16	29.62	4.60	36.90	43.48	74.00	-30.52 HORIZONTAL Peak
3	4960.993	39.68	31.05	5.65	36.96	39.42	54.00	-14.58 HORIZONTAL Average
4	4960.993	46.79	31.05	5.65	36.96	46.53	74.00	-27.47 HORIZONTAL Peak
5	5797.032	38.72	32.16	6.10	37.00	39.98	54.00	-14.02 HORIZONTAL Average
6	5797.032	48.10	32.16	6.10	37.00	49.36	74.00	-24.64 HORIZONTAL Peak
7	7440.914	38.64	35.92	6.22	36.92	43.86	54.00	-10.14 HORIZONTAL Average
8	7440.914	46.96	35.92	6.22	36.92	52.18	74.00	-21.82 HORIZONTAL Peak
9	9920.018	36.42	37.92	6.96	37.10	44.20	54.00	-9.80 HORIZONTAL Average
10	9920.018	45.33	37.92	6.96	37.10	53.11	74.00	-20.89 HORIZONTAL Peak
11	12400.300	34.20	38.93	7.97	36.90	44.20	54.00	-9.80 HORIZONTAL Average
12	12400.300	42.96	38.93	7.97	36.90	52.96	74.00	-21.04 HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3619.064	39.62	28.20	4.51	36.94	35.39	54.00	-18.61 VERTICAL Average
2	3619.064	45.80	28.20	4.51	36.94	41.57	74.00	-32.43 VERTICAL Peak
3	4960.993	37.19	31.05	5.65	36.96	36.93	54.00	-17.07 VERTICAL Average
4	4960.993	49.06	31.05	5.65	36.96	48.80	74.00	-25.20 VERTICAL Peak
5	5984.305	33.19	32.29	6.15	37.00	34.63	54.00	-19.37 VERTICAL Average
6	5984.305	44.26	32.29	6.15	37.00	45.70	74.00	-28.30 VERTICAL Peak
7	7440.914	38.59	35.92	6.22	36.92	43.81	54.00	-10.19 VERTICAL Average
8	7440.914	47.11	35.92	6.22	36.92	52.33	74.00	-21.67 VERTICAL Peak
9	9920.432	36.38	37.92	6.96	37.10	44.16	54.00	-9.84 VERTICAL Average
10	9920.432	45.31	37.92	6.96	37.10	53.09	74.00	-20.91 VERTICAL Peak
11	12400.350	35.46	38.93	7.97	36.90	45.46	54.00	-8.54 VERTICAL Average
12	12400.350	45.68	38.93	7.97	36.90	55.68	74.00	-18.32 VERTICAL Peak



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8 Appendix

8.1 Appendix 15.247

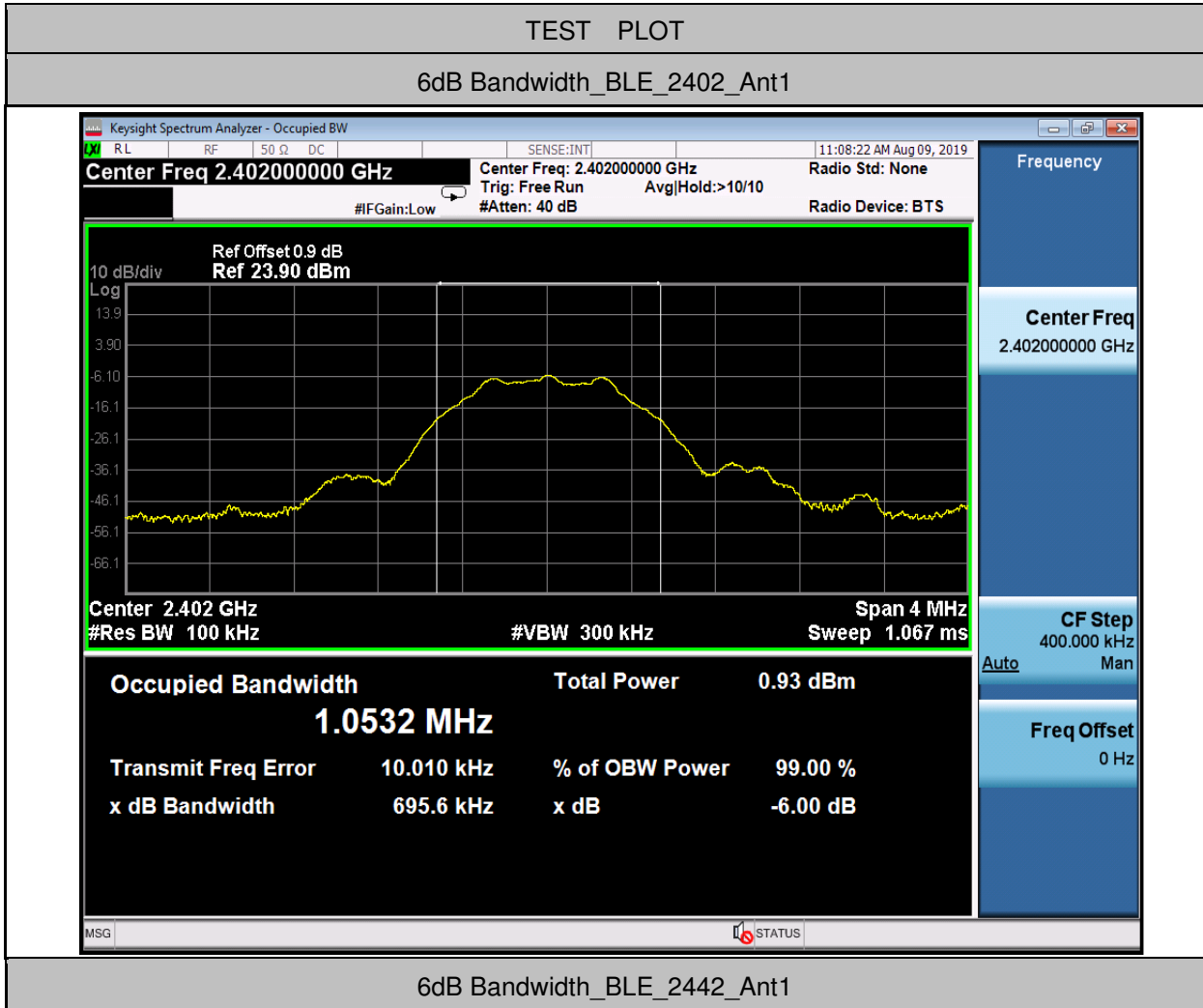
1.6dB Bandwidth

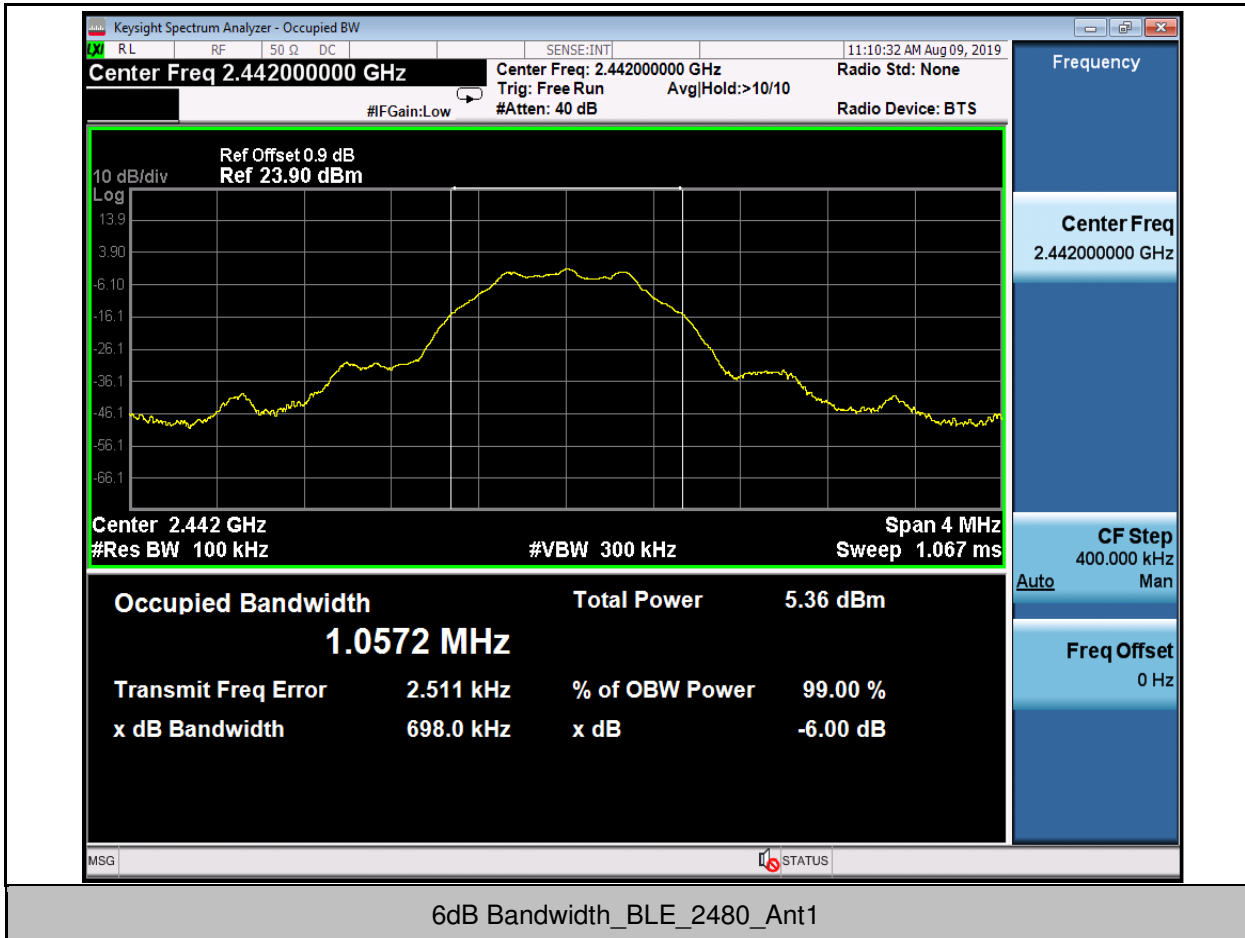
Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.0532	0.6956	0.5	PASS
BLE	2442	Ant1	1.0571	0.6980	0.5	PASS
BLE	2480	Ant1	1.0688	0.6969	0.5	PASS



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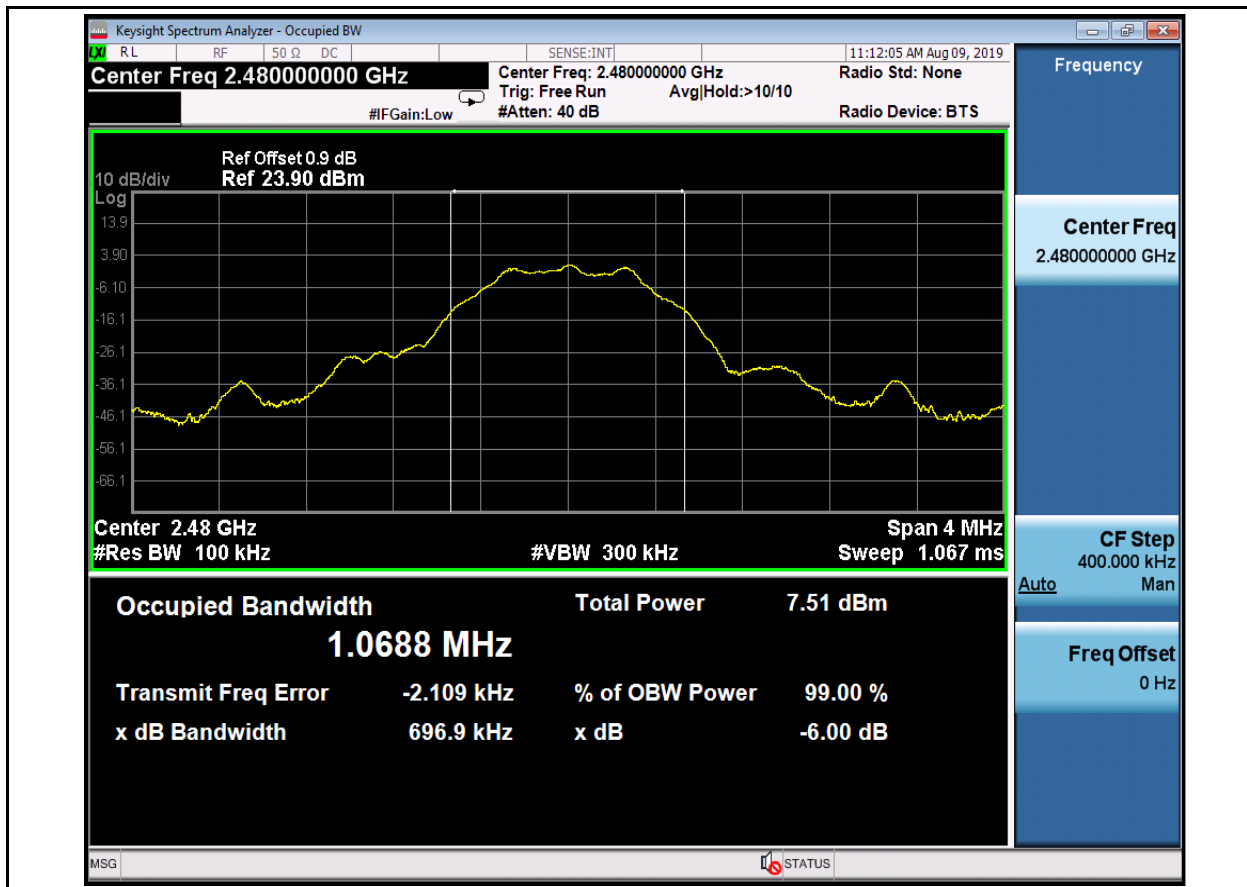
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2. Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-5.238	30	PASS
BLE	2442	Ant1	-0.966	30	PASS
BLE	2480	Ant1	1.089	30	PASS

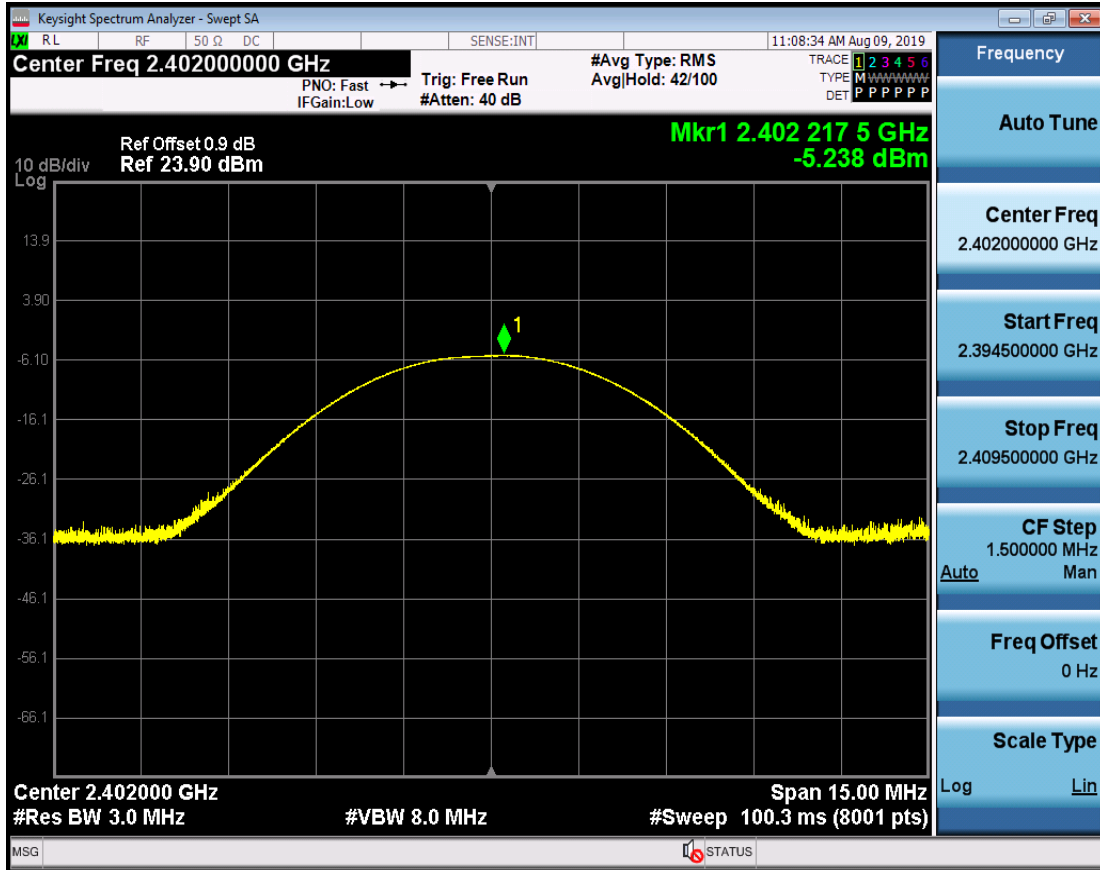


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TEST PLOT

Maximum peak conducted output power_BLE_2402_Ant1

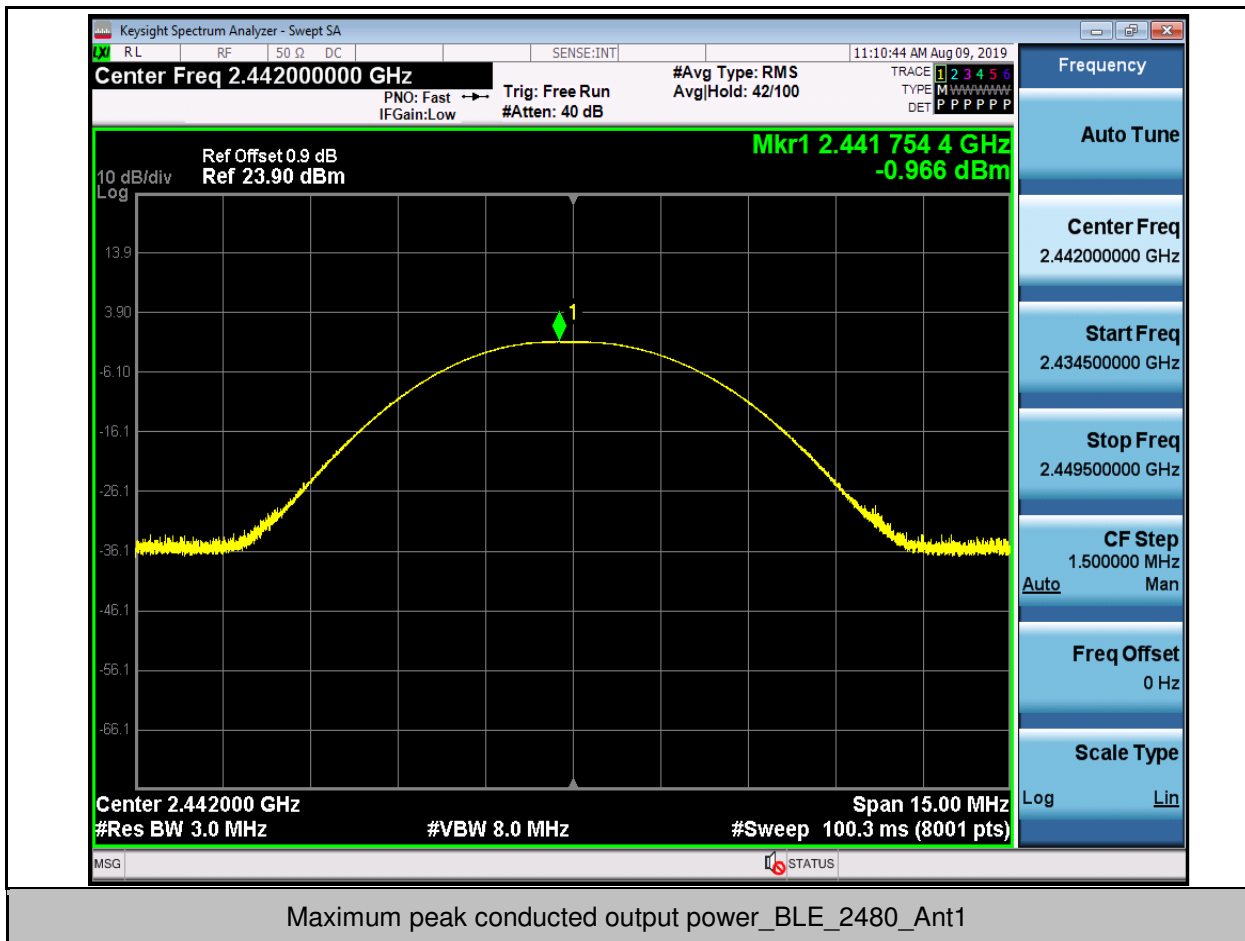


Maximum peak conducted output power_BLE_2442_Ant1



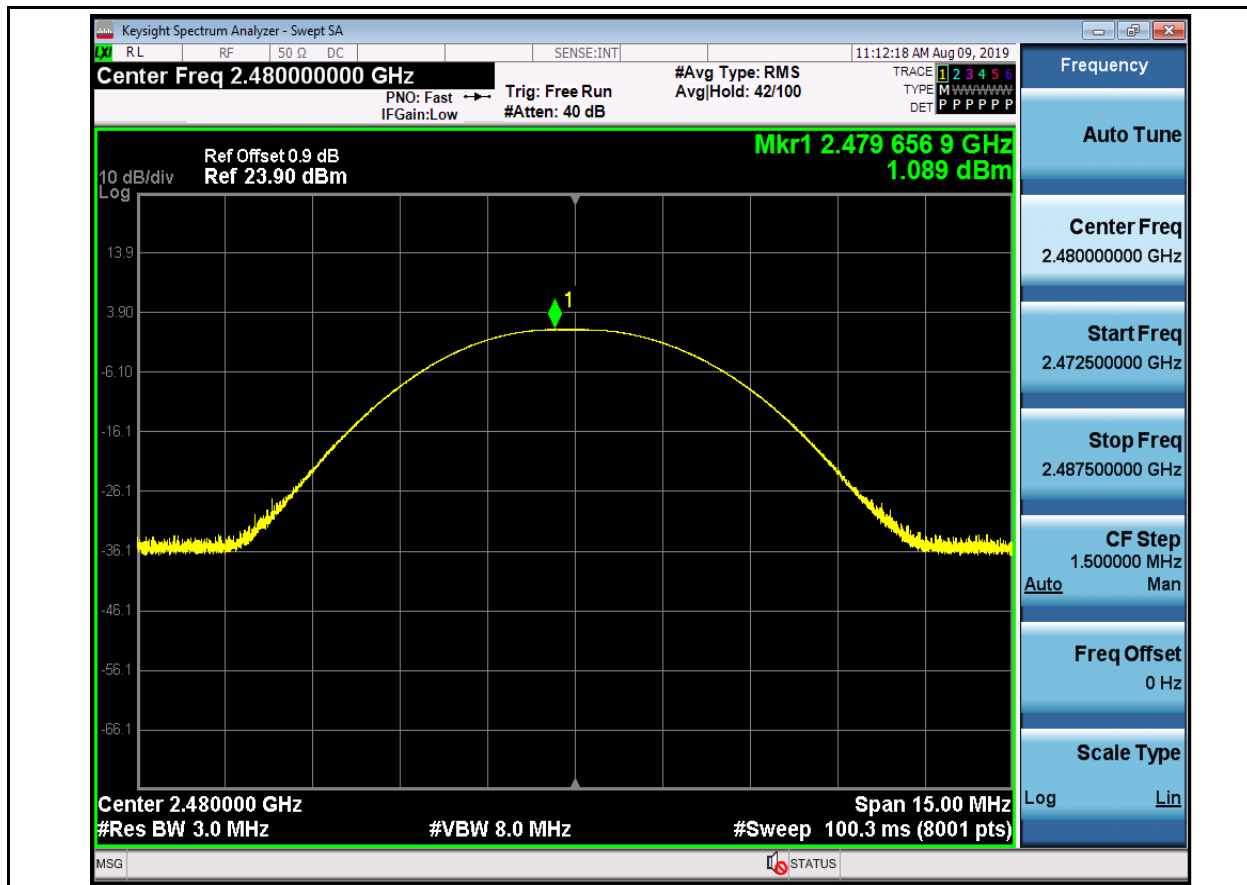
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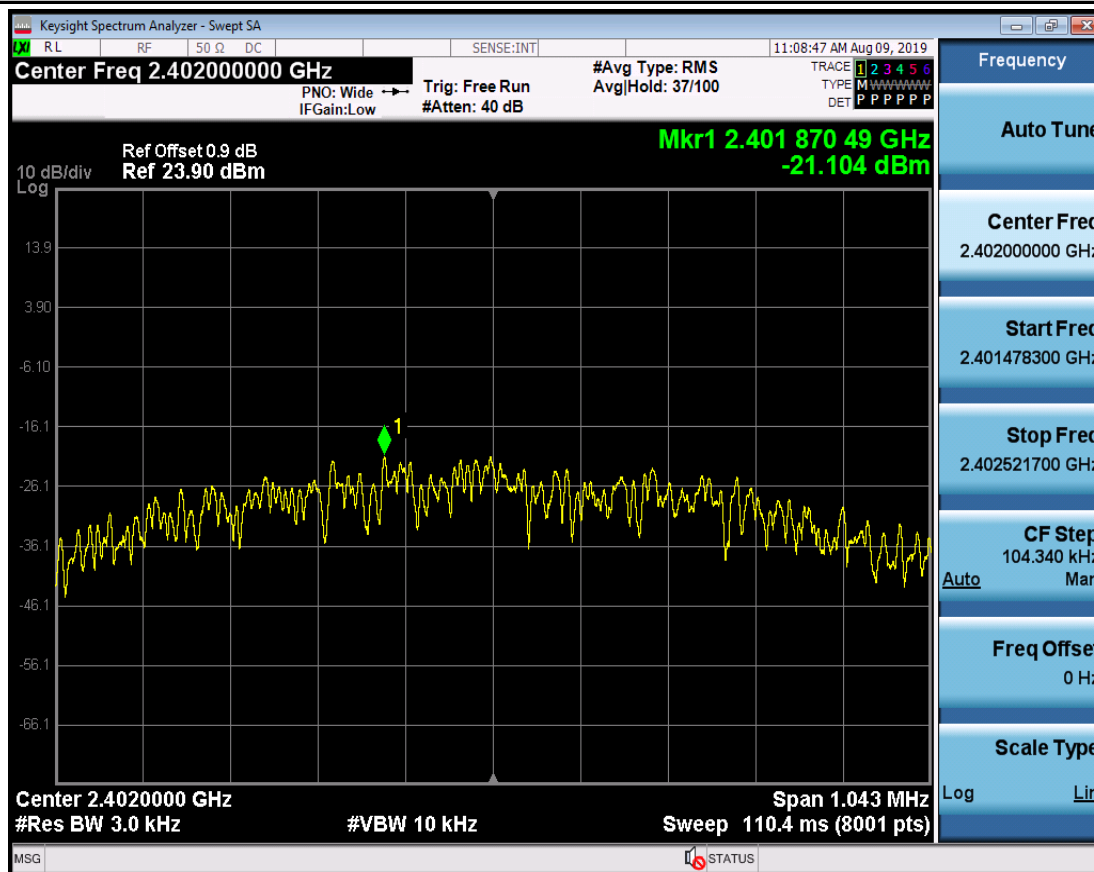


3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-21.104	8.00	PASS
BLE	2442	Ant1	-16.553	8.00	PASS
BLE	2480	Ant1	-14.395	8.00	PASS

TEST PLOT

Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density BLE 2442 Ant1

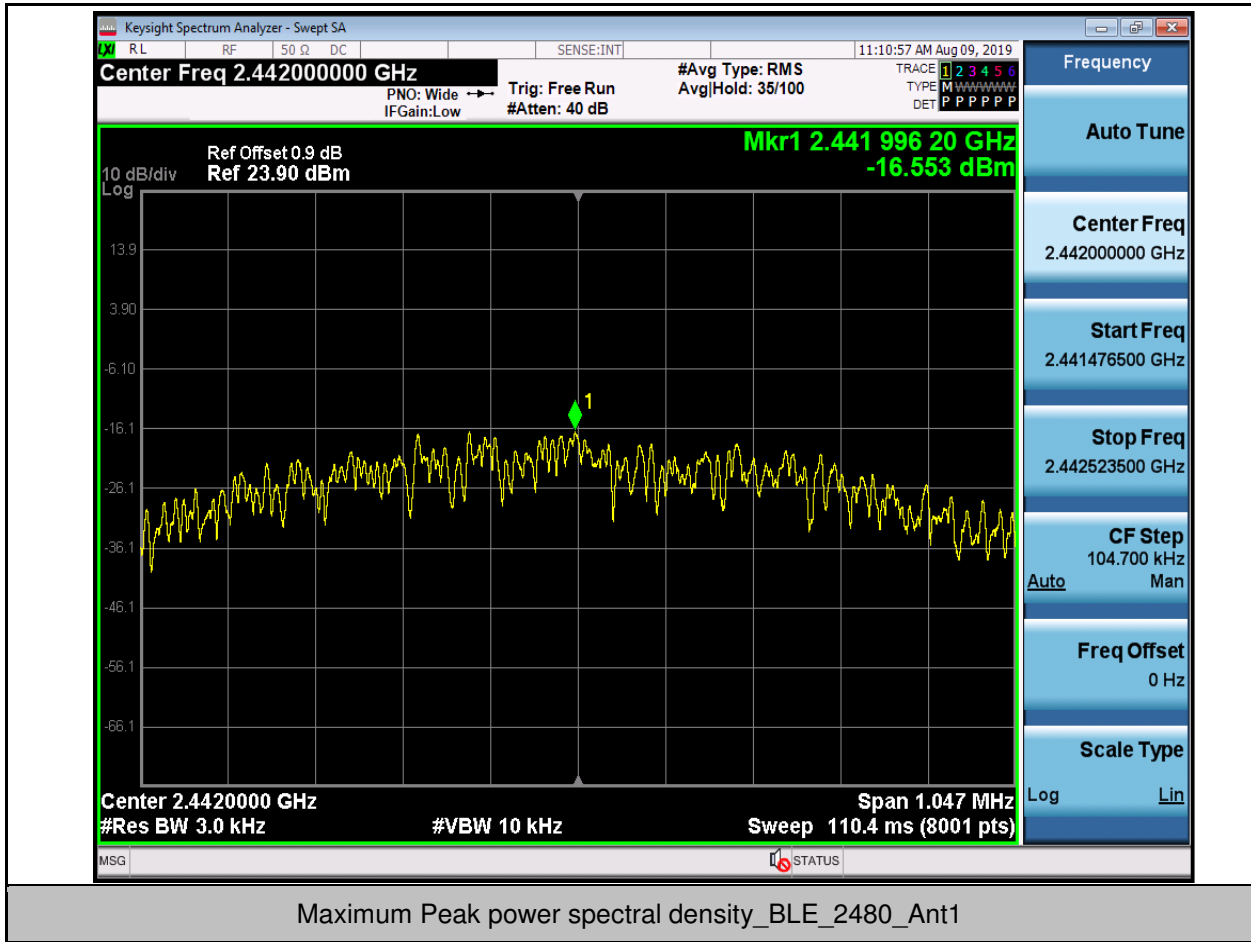


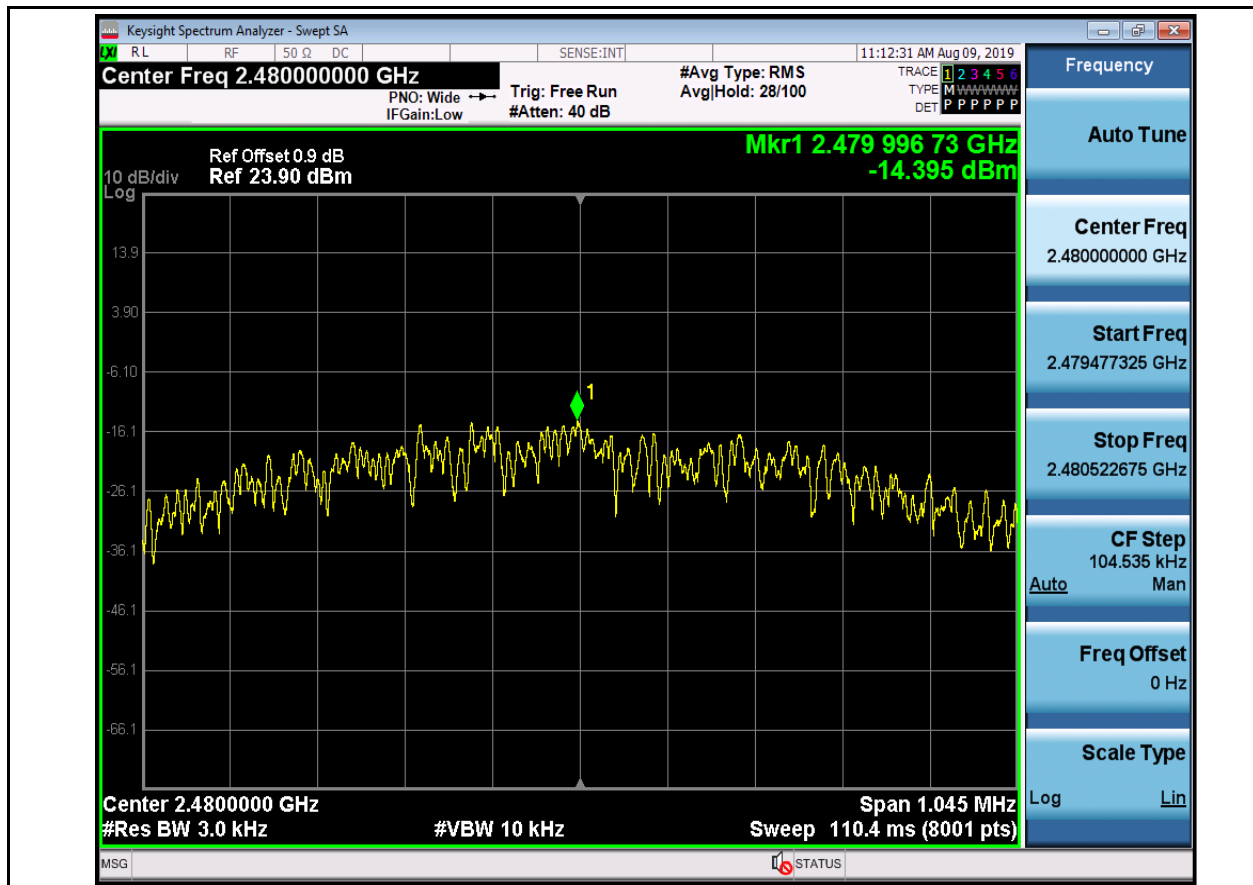
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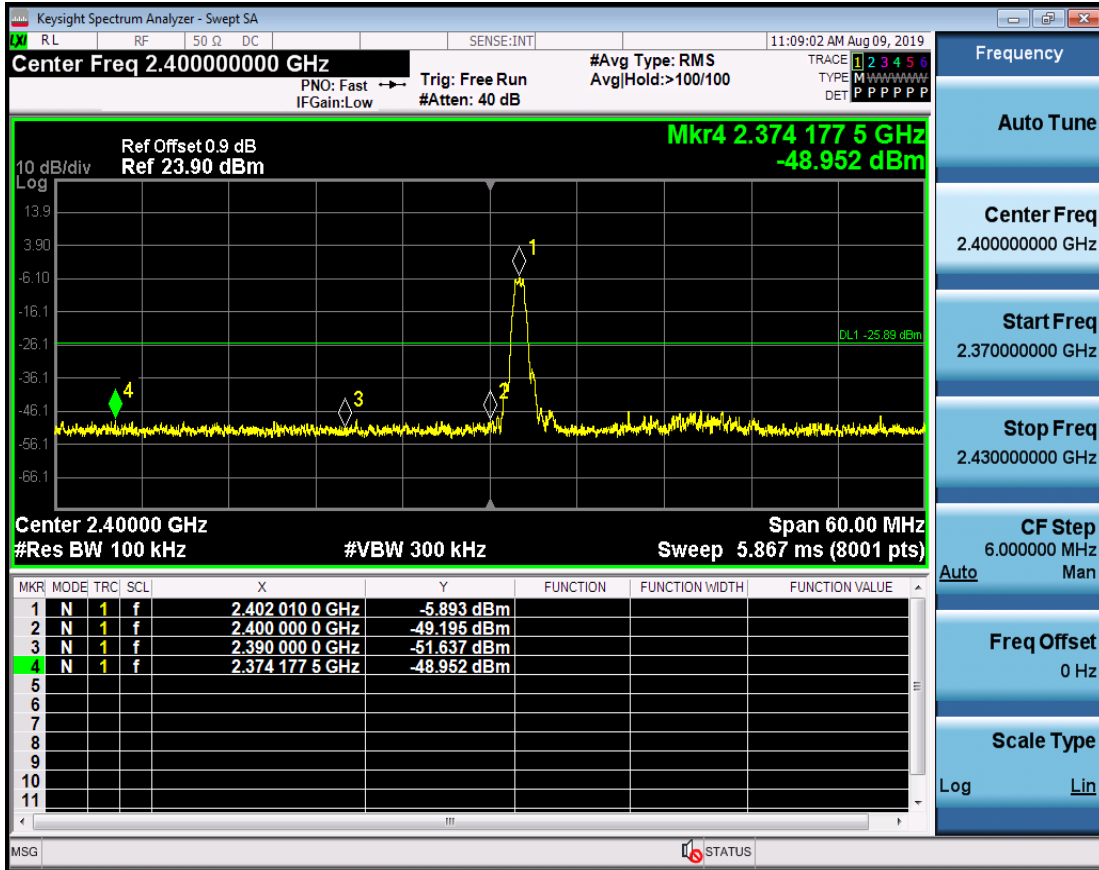


4. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-5.893	-48.952	-25.89	PASS
BLE	2480	Ant1	1.026	-48.104	-18.97	PASS

TEST PLOT

Band-edge for RF Conducted Emissions_BLE_2402_Ant1



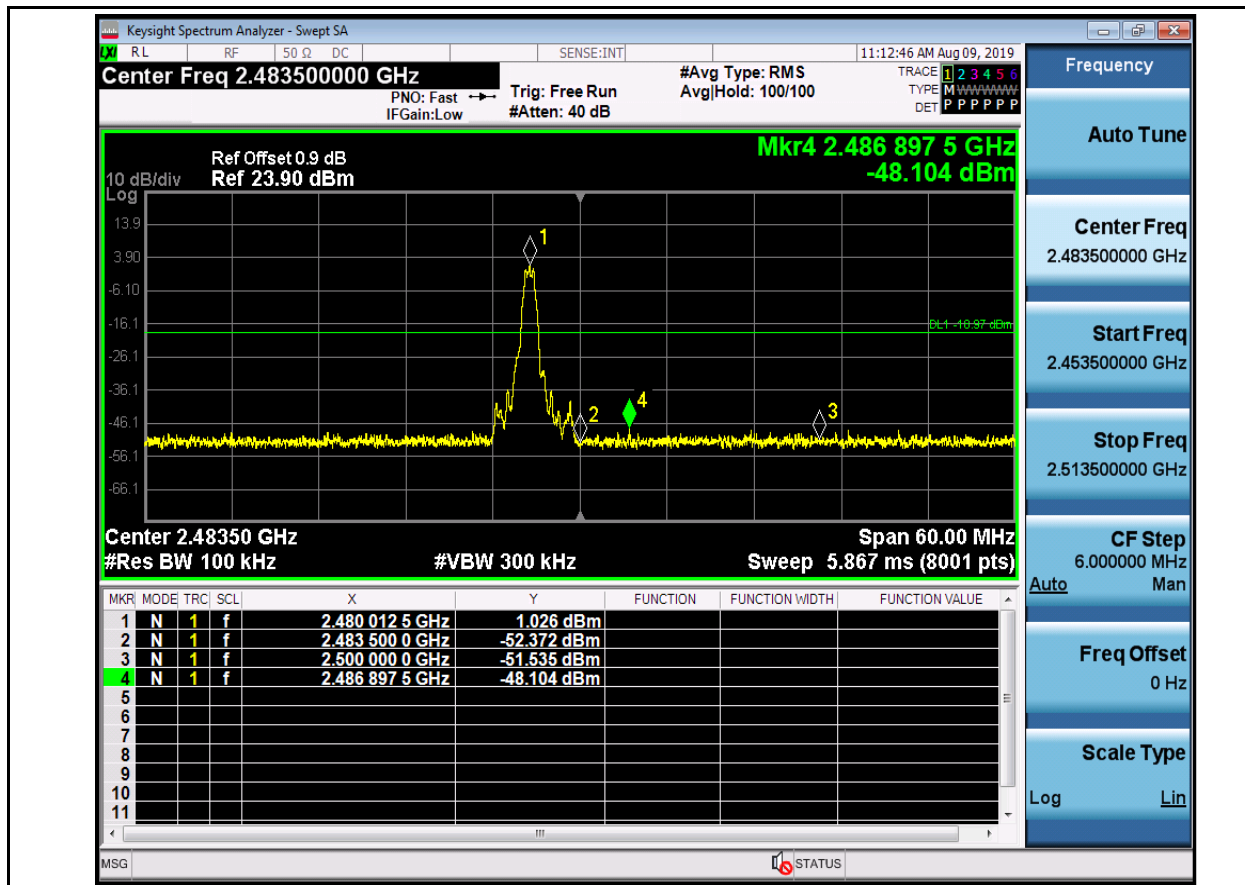
Band-edge for RF Conducted Emissions_BLE_2480_Ant1



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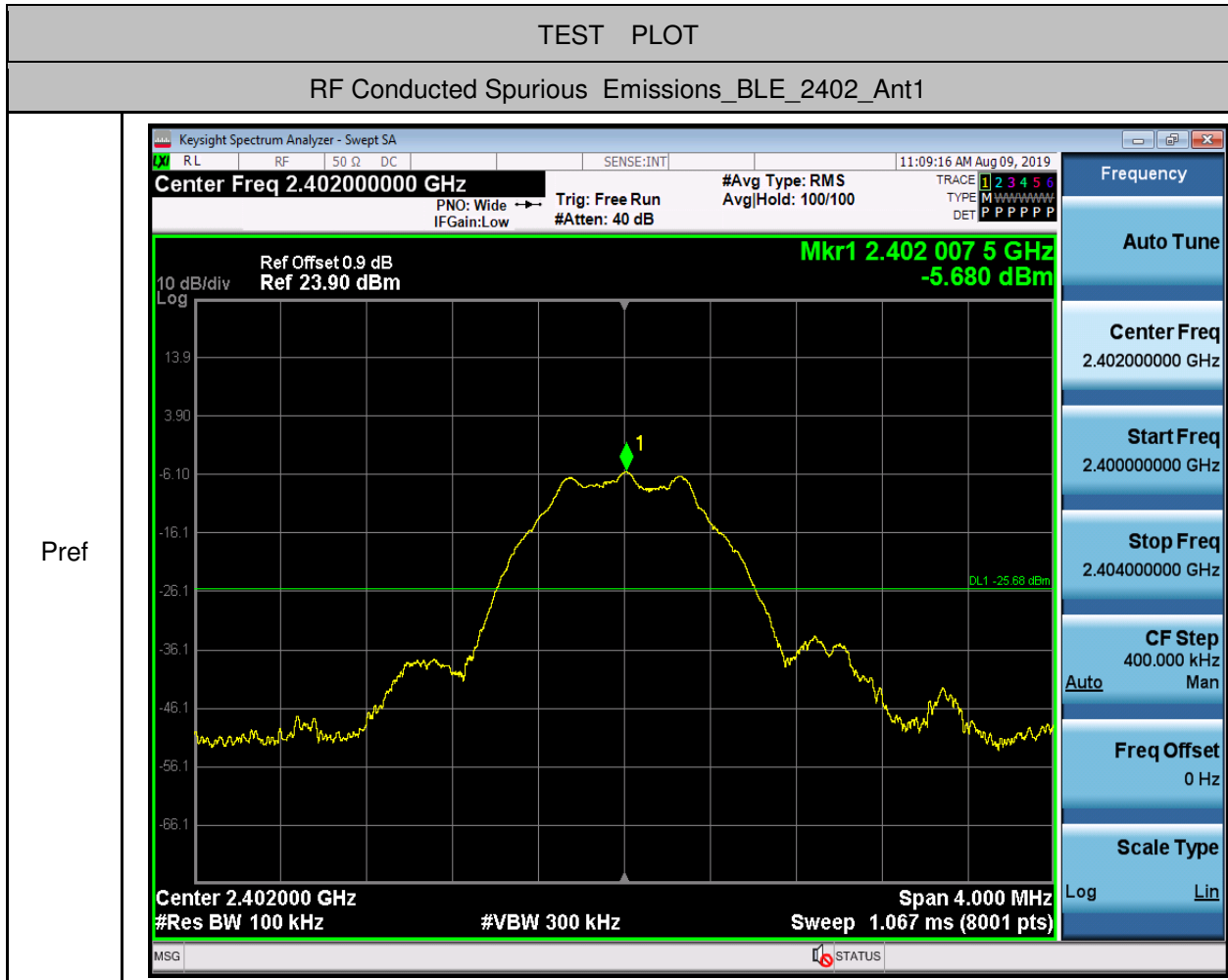
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5.RF Conducted Spurious Emissions

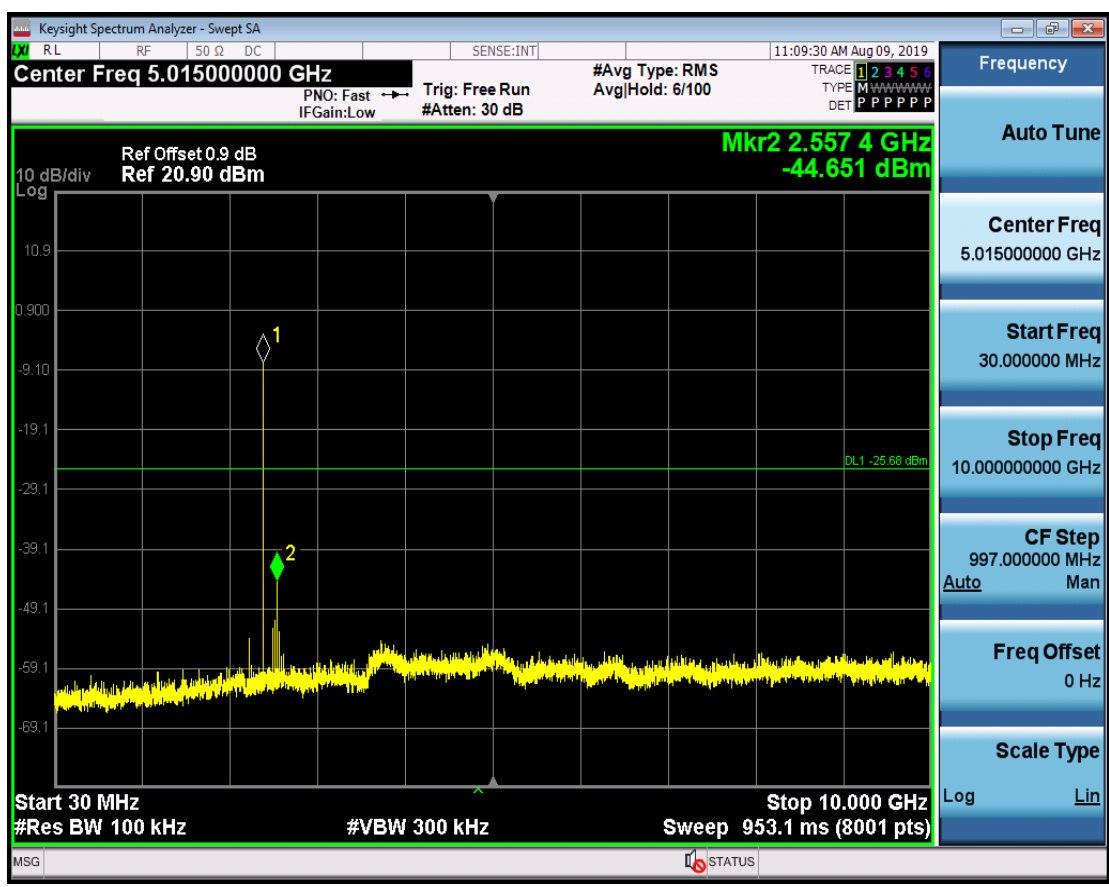
Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	30	10000	100	300	-5.68	-44.651	<-25.68	PASS
BLE	2402	Ant1	10000	26000	100	300	-5.68	-51.693	<-25.68	PASS
BLE	2442	Ant1	30	10000	100	300	-1.164	-48.667	<-21.164	PASS
BLE	2442	Ant1	10000	26000	100	300	-1.164	-52.124	<-21.164	PASS
BLE	2480	Ant1	30	10000	100	300	0.947	-51.470	<-19.053	PASS
BLE	2480	Ant1	10000	26000	100	300	0.947	-51.530	<-19.053	PASS



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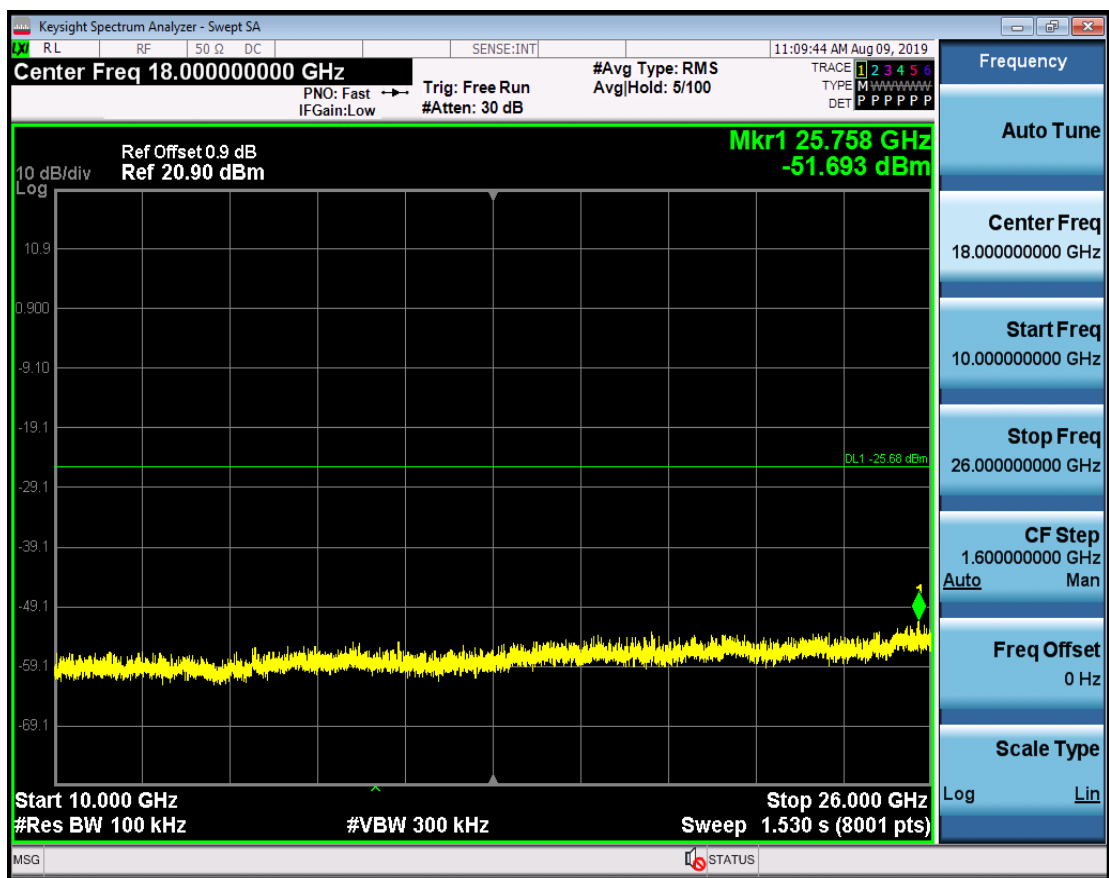
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CSE_2



RF Conducted Spurious Emissions_BLE_2442_Ant1



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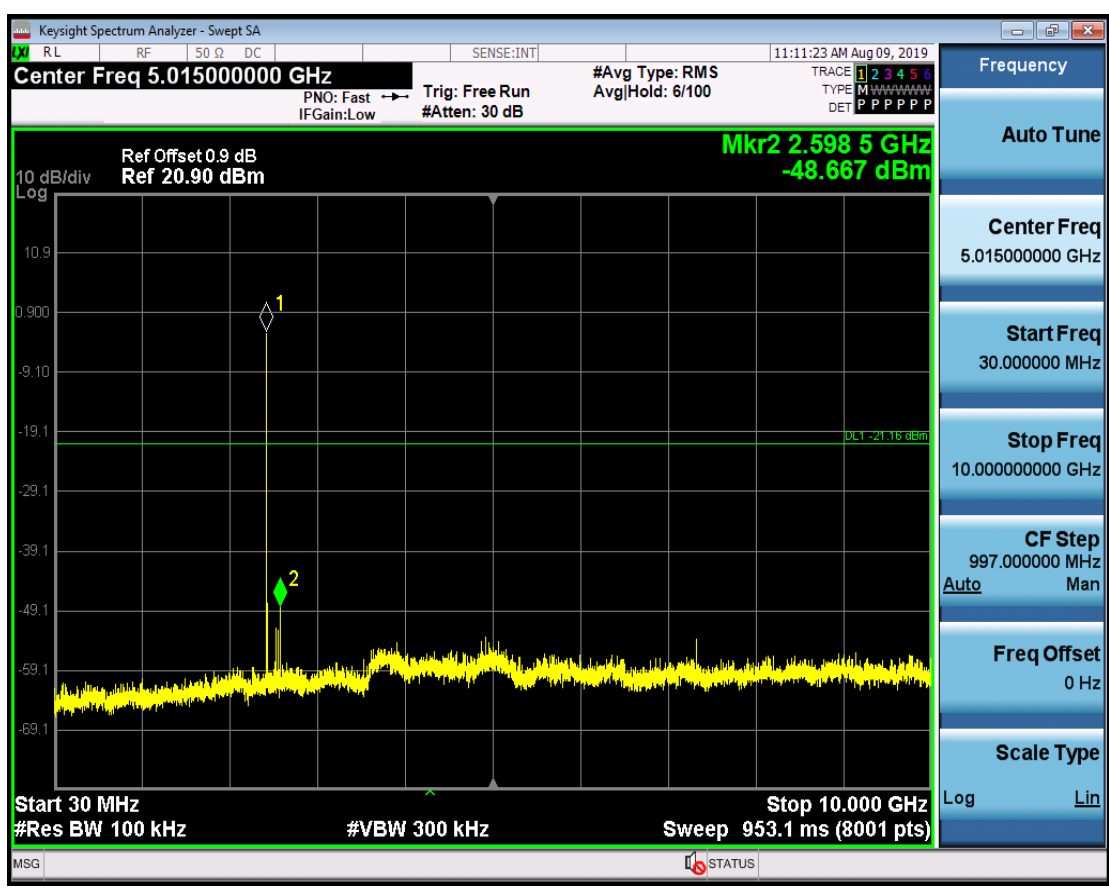
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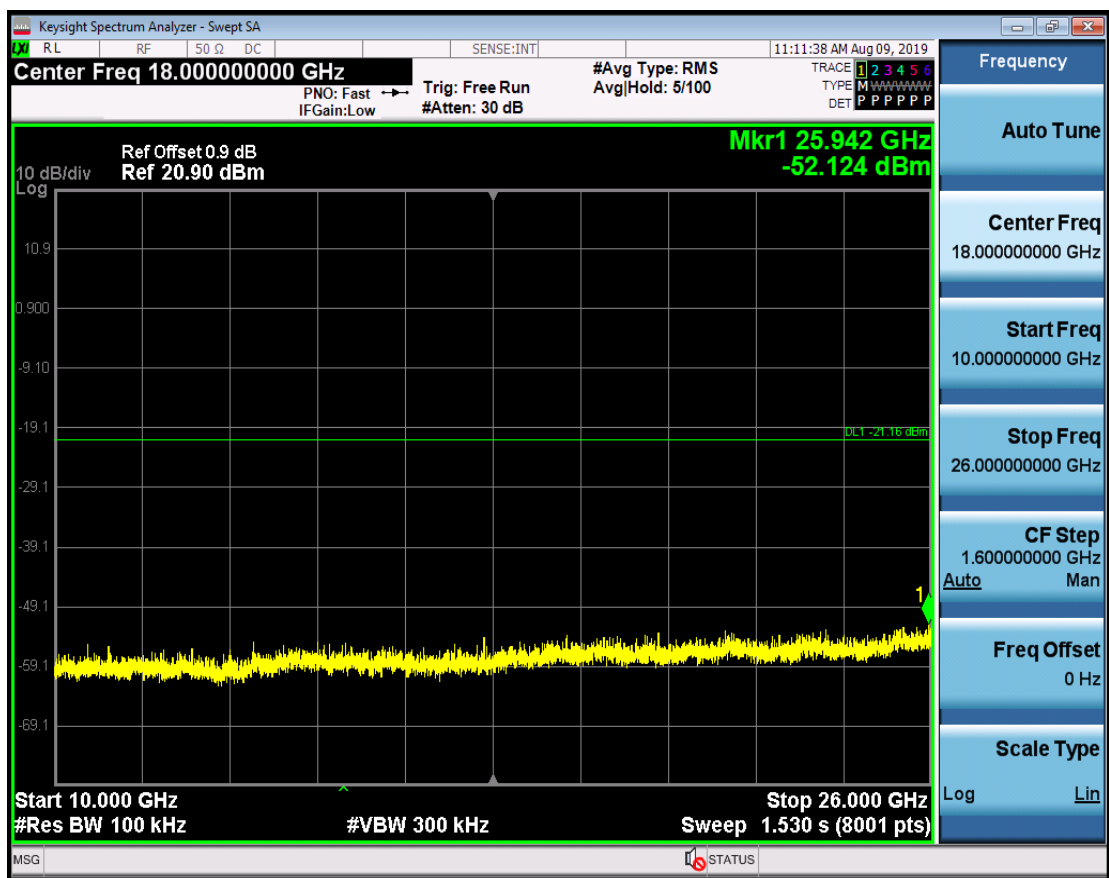
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CSE_2



RF Conducted Spurious Emissions_BLE_2480_Ant1



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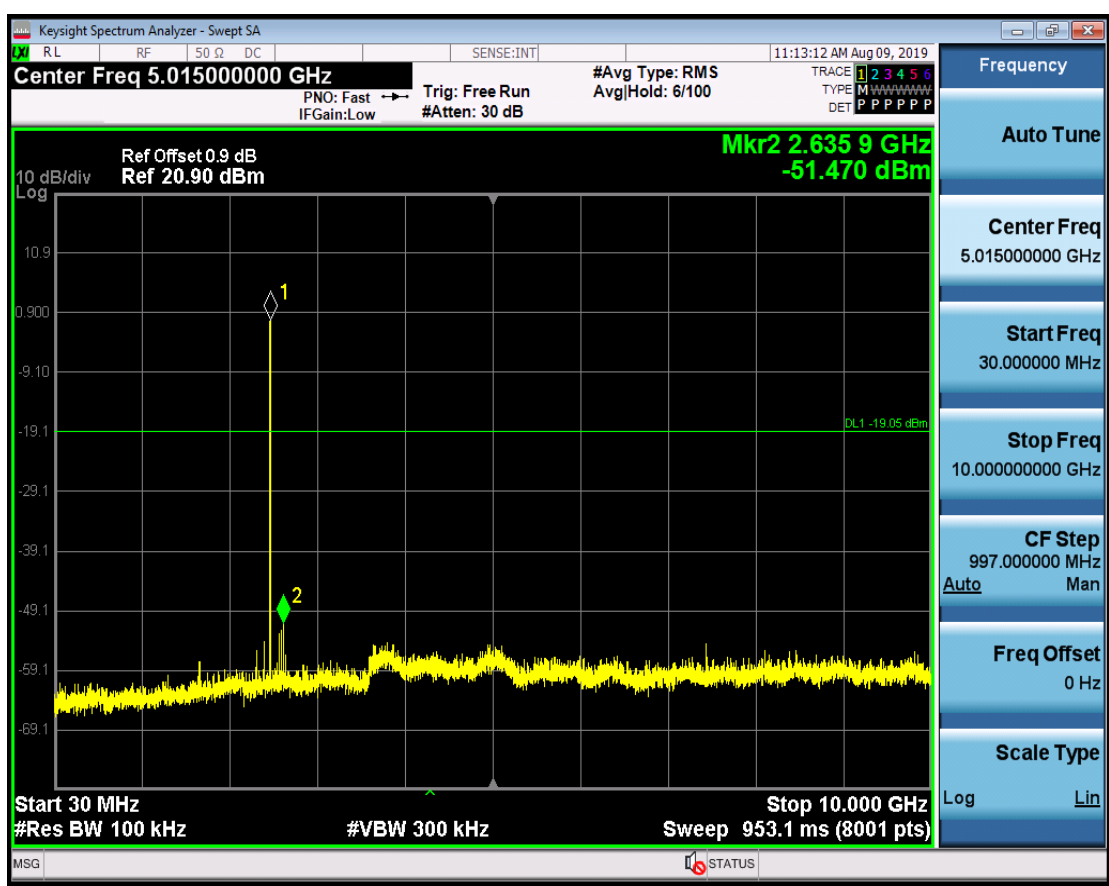
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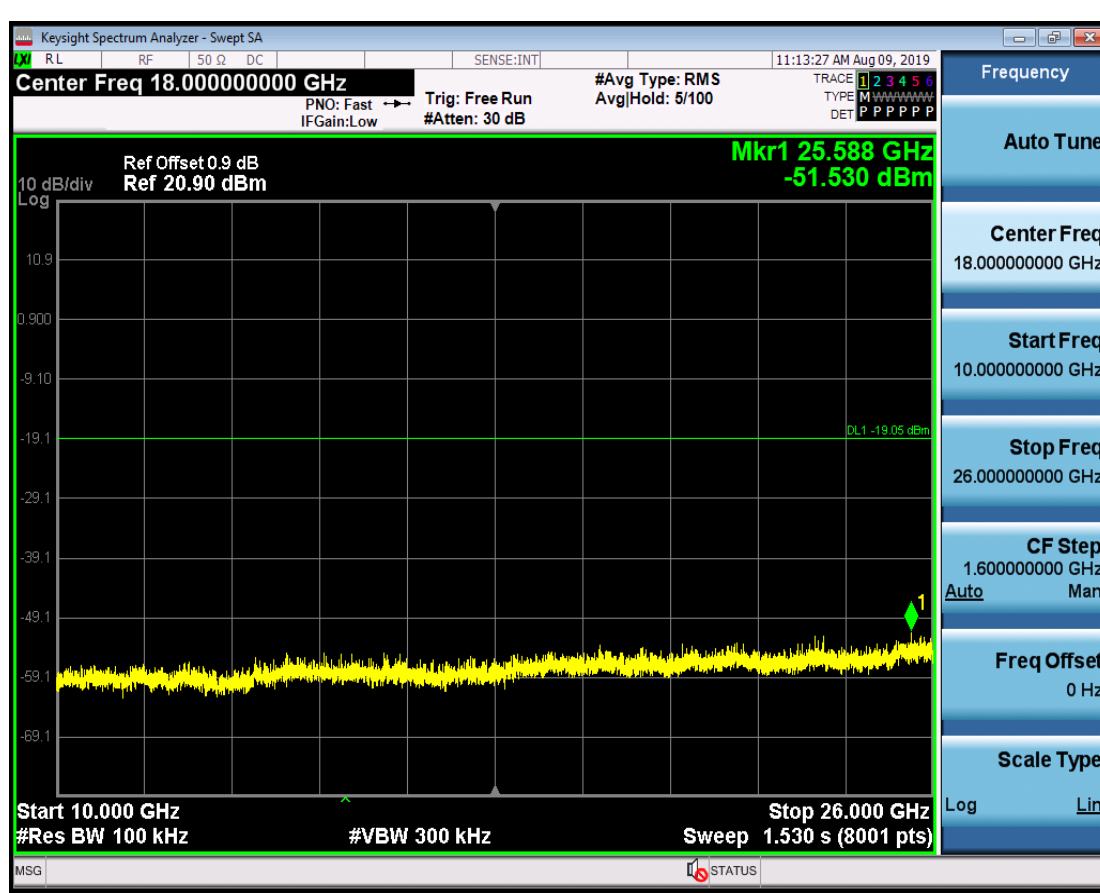


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--End of Report--



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