

TEST REPORT

Application No.: GZEM2004011903CR
Applicant: Harman International Industries, Inc.
Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91329, United States
Manufacturer: Harman International Industries, Inc.
Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California, 91329, United States
Equipment Under Test (EUT):
EUT Name: BLUETOOTH HEADSET
Model No.: TUNE215TWS
Trade Mark: JBL
Standard(s): 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-04-26
Date of Test: 2020-05-06 to 2020-05-18
Date of Issue: 2020-05-19

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

Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-05-19		Original

Authorized for issue by:			
Tested By			2020-05-06 to 2020-05-18
	Curry_Wu /Project Engineer		Date
Checked By			2020-05-19
	Ricky Liu /Reviewer		Date



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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: All conducted test were perform at left earbuds due to the two earbuds SCH are totally same except for the mechanical construction. And radiated tests were performed at left/right earbuds separately.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 3.7V 55mAh rechargeable battery
Test Voltage:	DC 3.7V
Cable:	about 0.2 m unscreened type C USB cable
Antenna Gain	-2.09dBi
Antenna Type	Integral antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz
Rate	1M only
Function	True Wireless Stereo Bluetooth headphone
S/N	A1
Hardware Version	V0.2
Firmware	A2DP1.3, AVRCP 1.5 & HFP1.7
Test Software	BQB.exe
Power Setting	5 dBm

4.2 Description of Support Units

The EUT has been tested with corresponding accessories as below:

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
BT test board	SGS EMC	RF 07	RF 07



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4.3 Measurement Uncertainty

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	$\pm 0.4\text{ }^\circ\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$

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.



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	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01



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MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01
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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	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2017-06-01	2020-05-31
Horn Antenna	SCHWARZBECKME SS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
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

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2017-06-01	2020-05-31
Horn Antenna	SCHWARZBECKME SS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01



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1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
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.

Antenna photo please refer to Internal photo.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.09dBi.



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7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

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

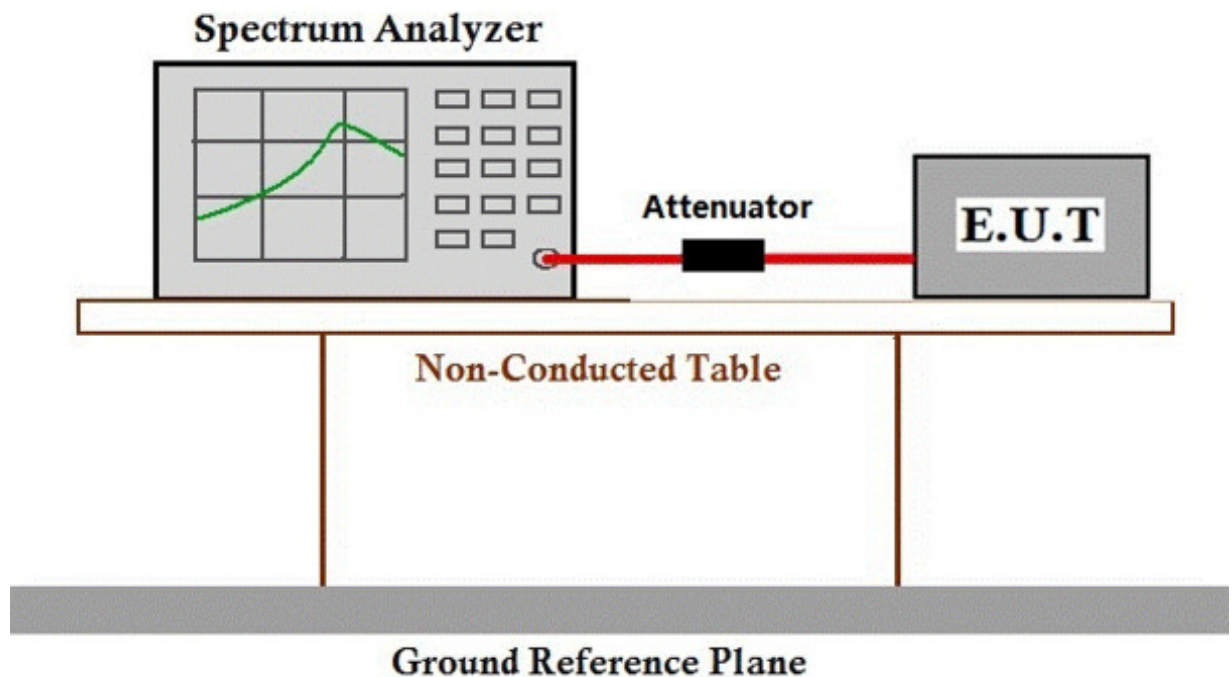
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Test mode d: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

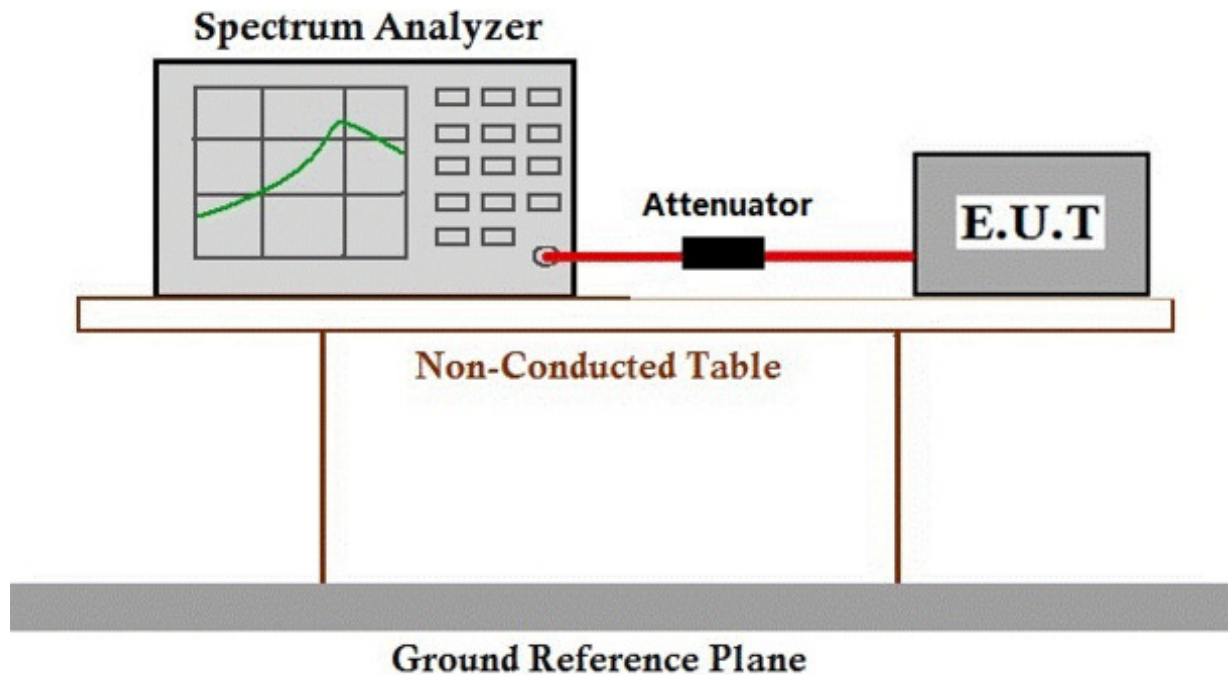
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C Humidity: 59.8 % RH Atmospheric Pressure: 1020 mbar

Test mode d: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



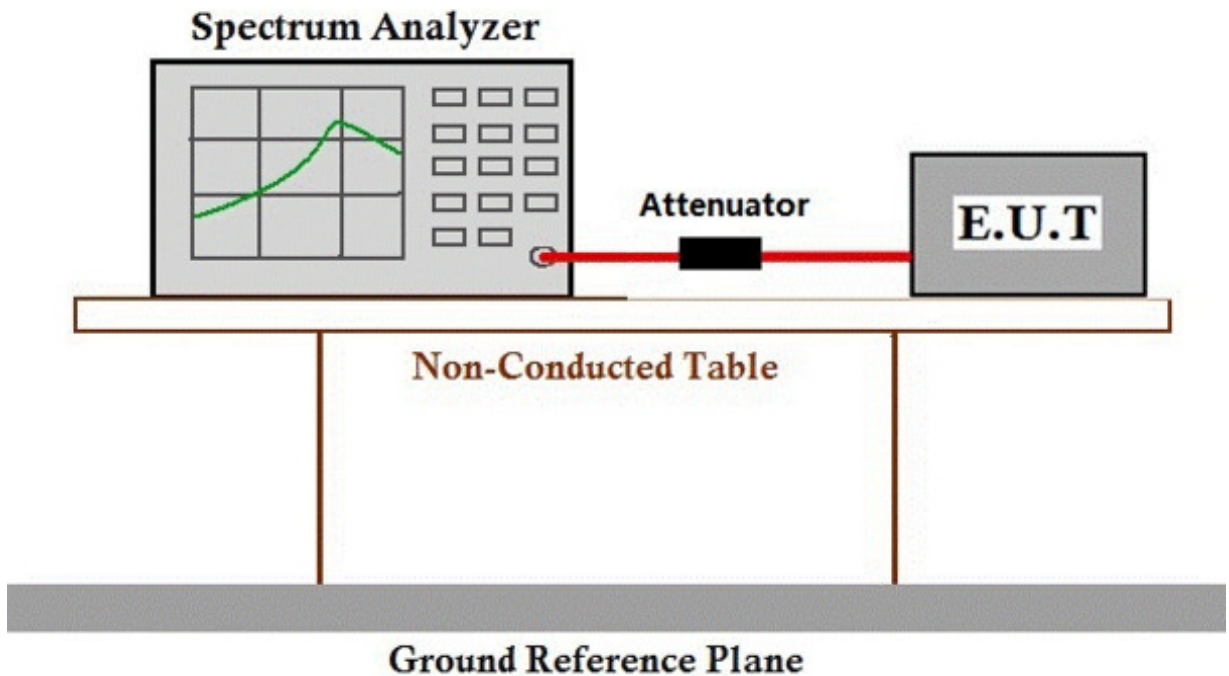
7.3 Power Spectrum Density

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: 26 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar
 Test mode d: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



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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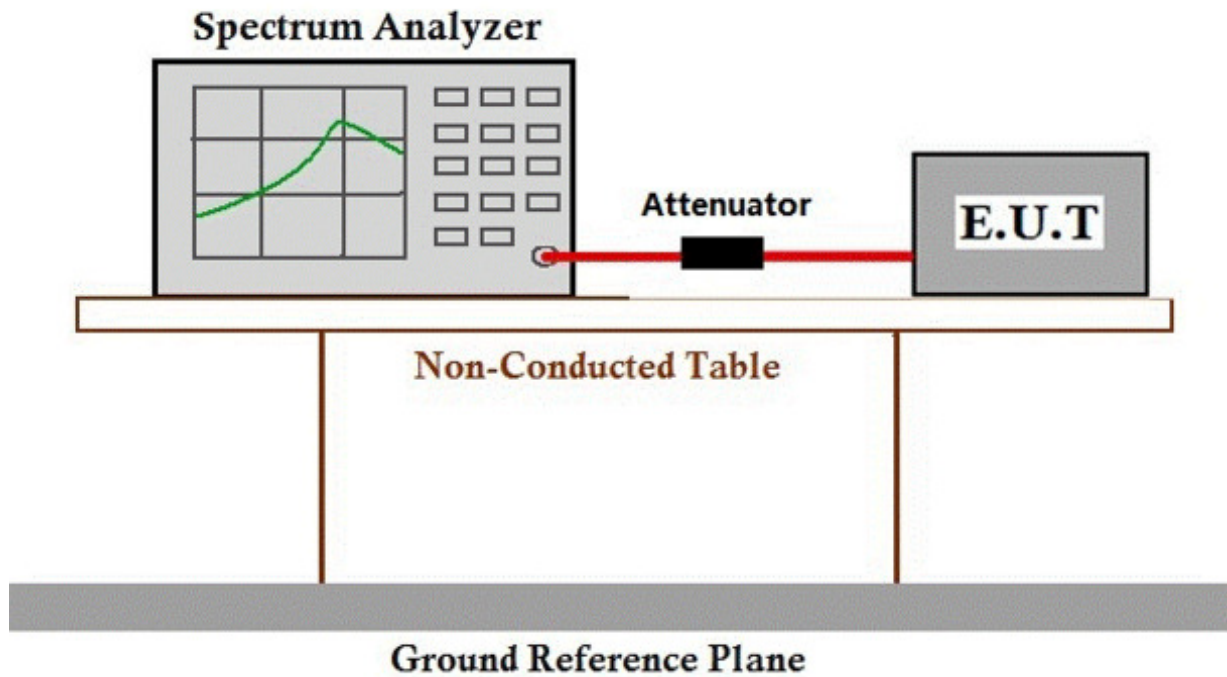
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Test mode d: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



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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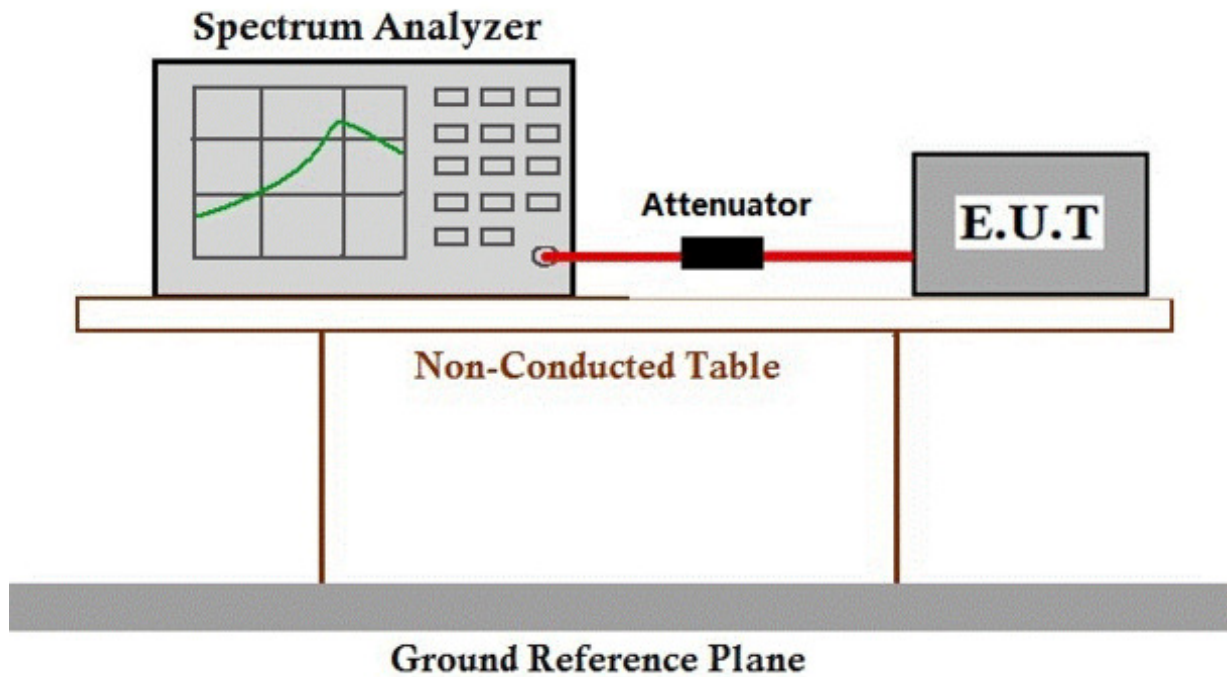
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Test mode d: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



7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.10.5
 Measurement Distance: 3m
 Limit:

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

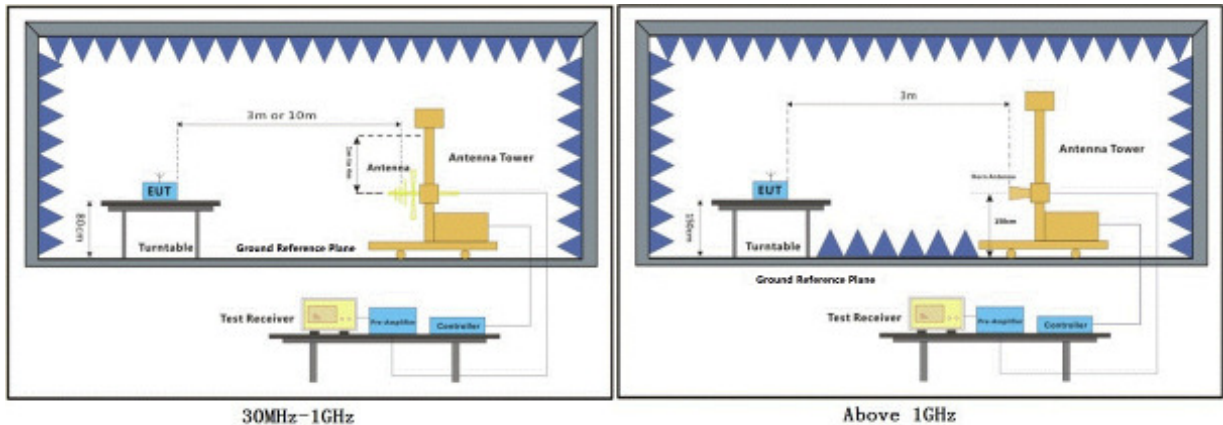
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode d:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.6.2 Test Setup Diagram



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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

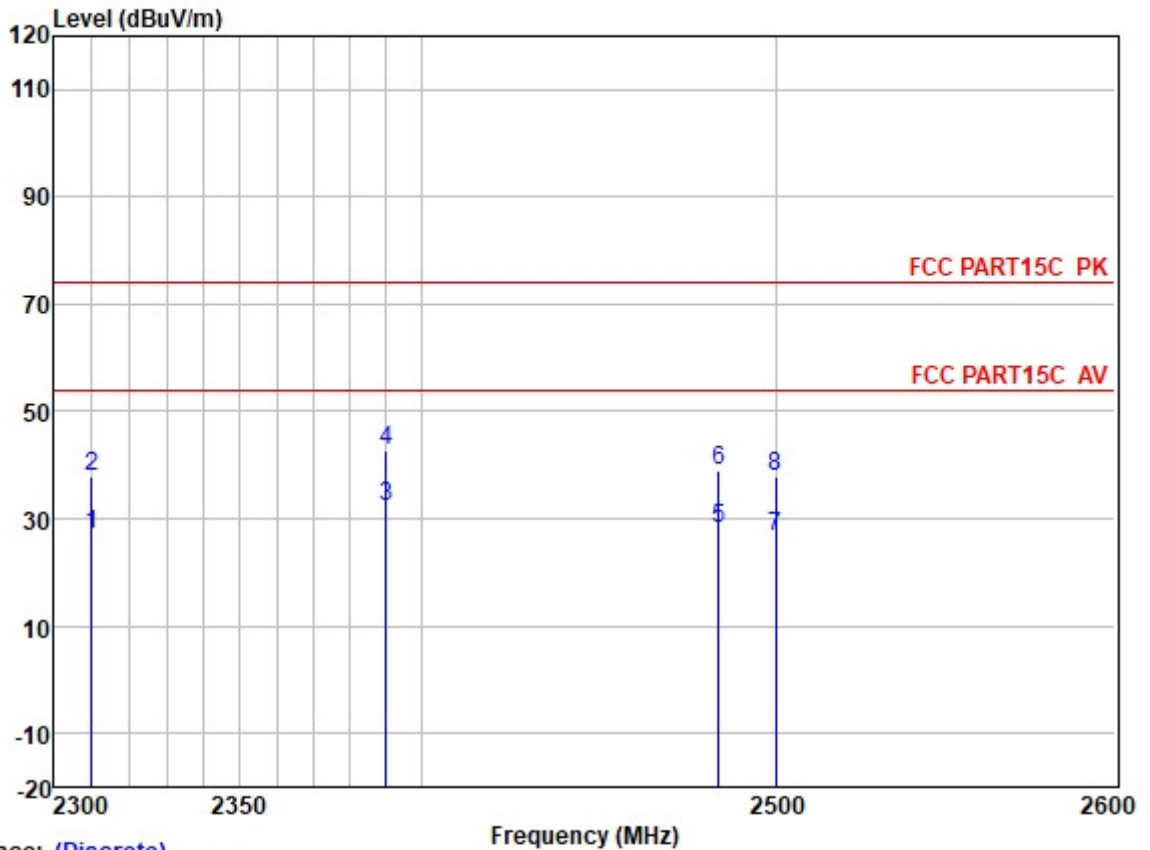
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

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



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



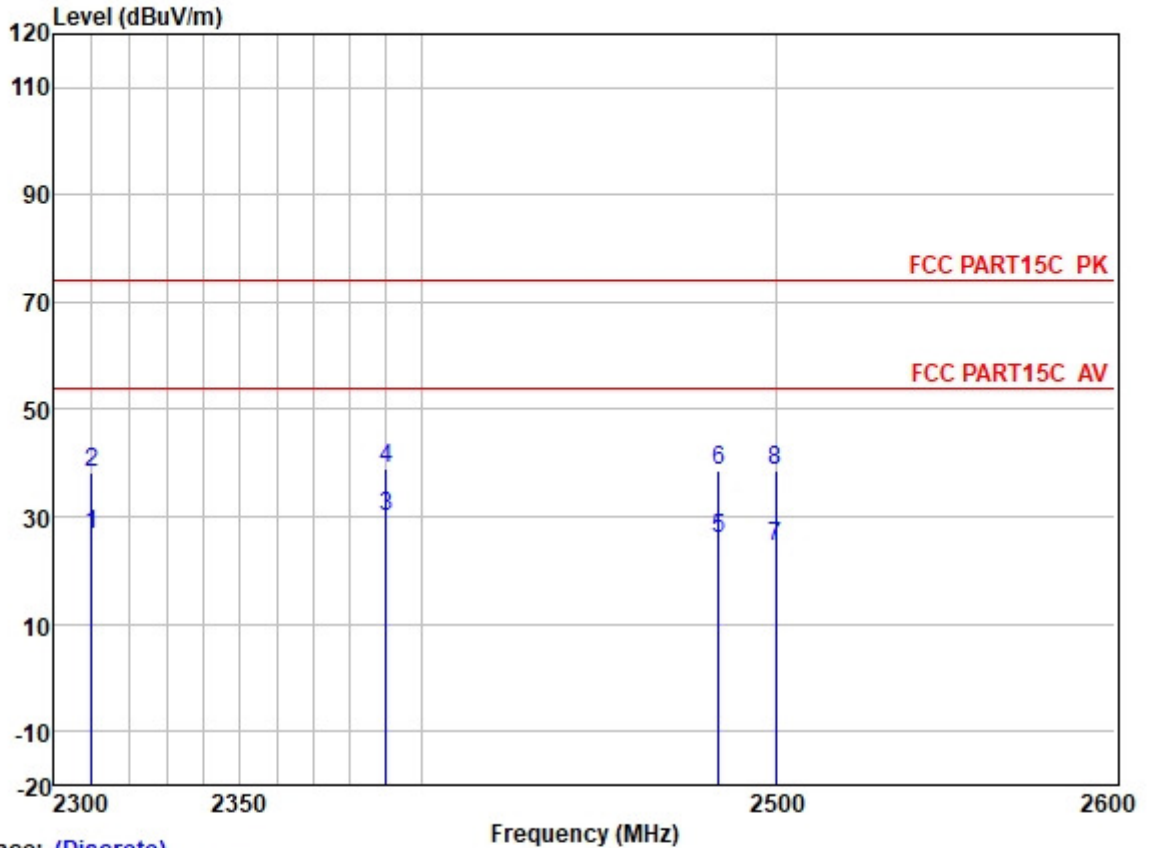
Trace: (Discrete)

	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2310.000	33.64	27.15	3.32	36.94	27.17	-26.83	HORIZONTAL	Average
2	2310.000	44.34	27.15	3.32	36.94	37.87	-36.13	HORIZONTAL	Peak
3	2390.000	38.56	27.33	3.48	36.92	32.45	-21.55	HORIZONTAL	Average
4	2390.000	48.88	27.33	3.48	36.92	42.77	-31.23	HORIZONTAL	Peak
5	2483.500	34.16	27.48	3.53	36.90	28.27	-25.73	HORIZONTAL	Average
6	2483.500	44.94	27.48	3.53	36.90	39.05	-34.95	HORIZONTAL	Peak
7	2500.000	32.74	27.50	3.40	36.89	26.75	-27.25	HORIZONTAL	Average
8	2500.000	43.85	27.50	3.40	36.89	37.86	-36.14	HORIZONTAL	Peak



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



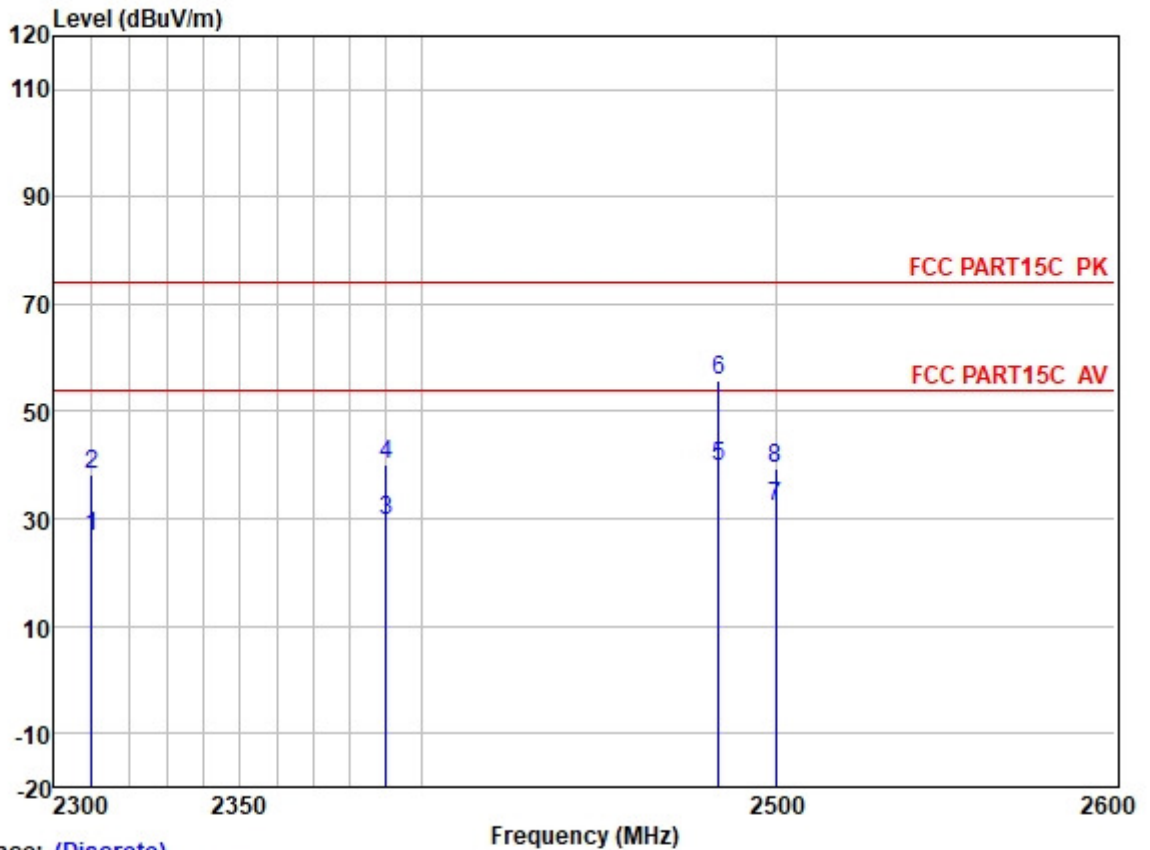
Trace: (Discrete)

	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2310.000	32.98	27.15	3.32	36.94	26.51	-27.49	VERTICAL	Average
2	2310.000	44.89	27.15	3.32	36.94	38.42	-35.58	VERTICAL	Peak
3	2390.000	36.24	27.33	3.48	36.92	30.13	-23.87	VERTICAL	Average
4	2390.000	45.06	27.33	3.48	36.92	38.95	-35.05	VERTICAL	Peak
5	2483.500	31.86	27.48	3.53	36.90	25.97	-28.03	VERTICAL	Average
6	2483.500	44.55	27.48	3.53	36.90	38.66	-35.34	VERTICAL	Peak
7	2500.000	30.55	27.50	3.40	36.89	24.56	-29.44	VERTICAL	Average
8	2500.000	44.71	27.50	3.40	36.89	38.72	-35.28	VERTICAL	Peak



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



Trace: (Discrete)

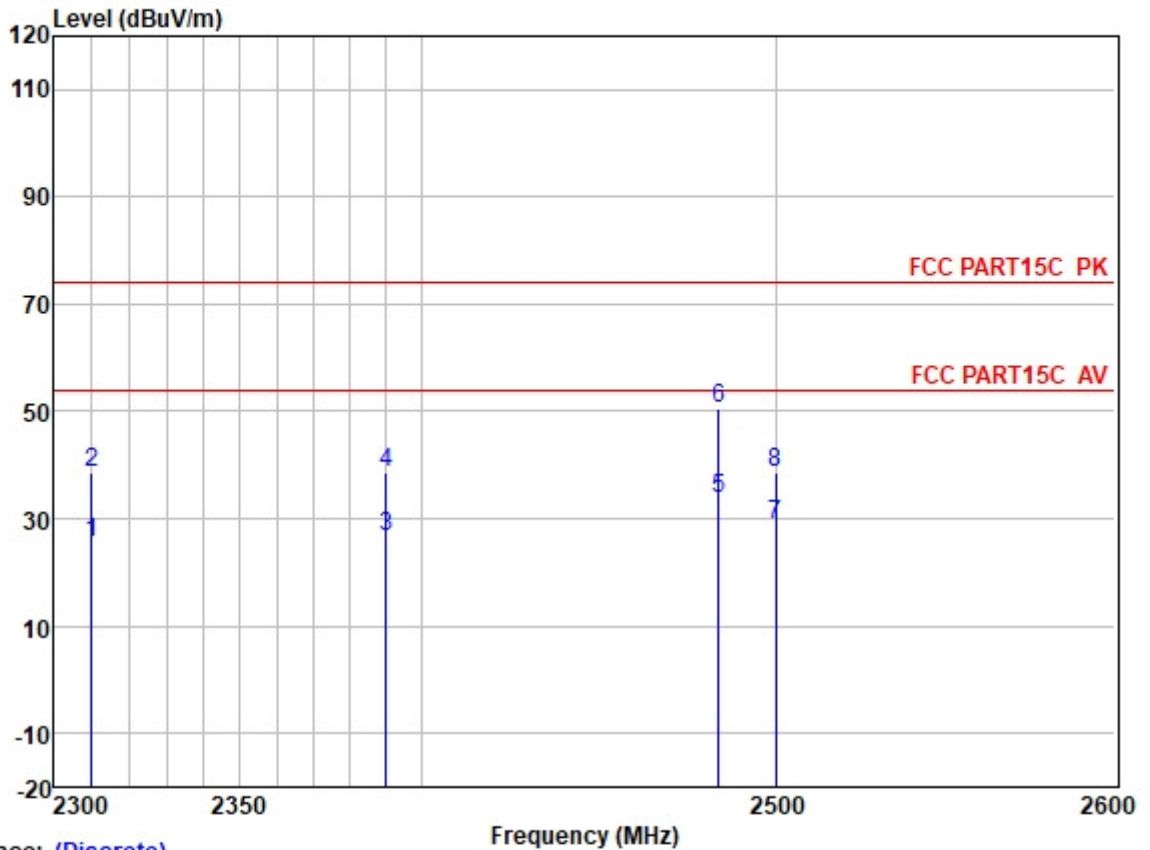
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	33.08	27.15	3.32	36.94	26.61	54.00	-27.39	HORIZONTAL Average
2	2310.000	44.71	27.15	3.32	36.94	38.24	74.00	-35.76	HORIZONTAL Peak
3	2390.000	35.79	27.33	3.48	36.92	29.68	54.00	-24.32	HORIZONTAL Average
4	2390.000	46.11	27.33	3.48	36.92	40.00	74.00	-34.00	HORIZONTAL Peak
5	2483.500	45.74	27.48	3.53	36.90	39.85	54.00	-14.15	HORIZONTAL Average
6	2483.500	61.67	27.48	3.53	36.90	55.78	74.00	-18.22	HORIZONTAL Peak
7	2500.000	38.44	27.50	3.40	36.89	32.45	54.00	-21.55	HORIZONTAL Average
8	2500.000	45.47	27.50	3.40	36.89	39.48	74.00	-34.52	HORIZONTAL Peak



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



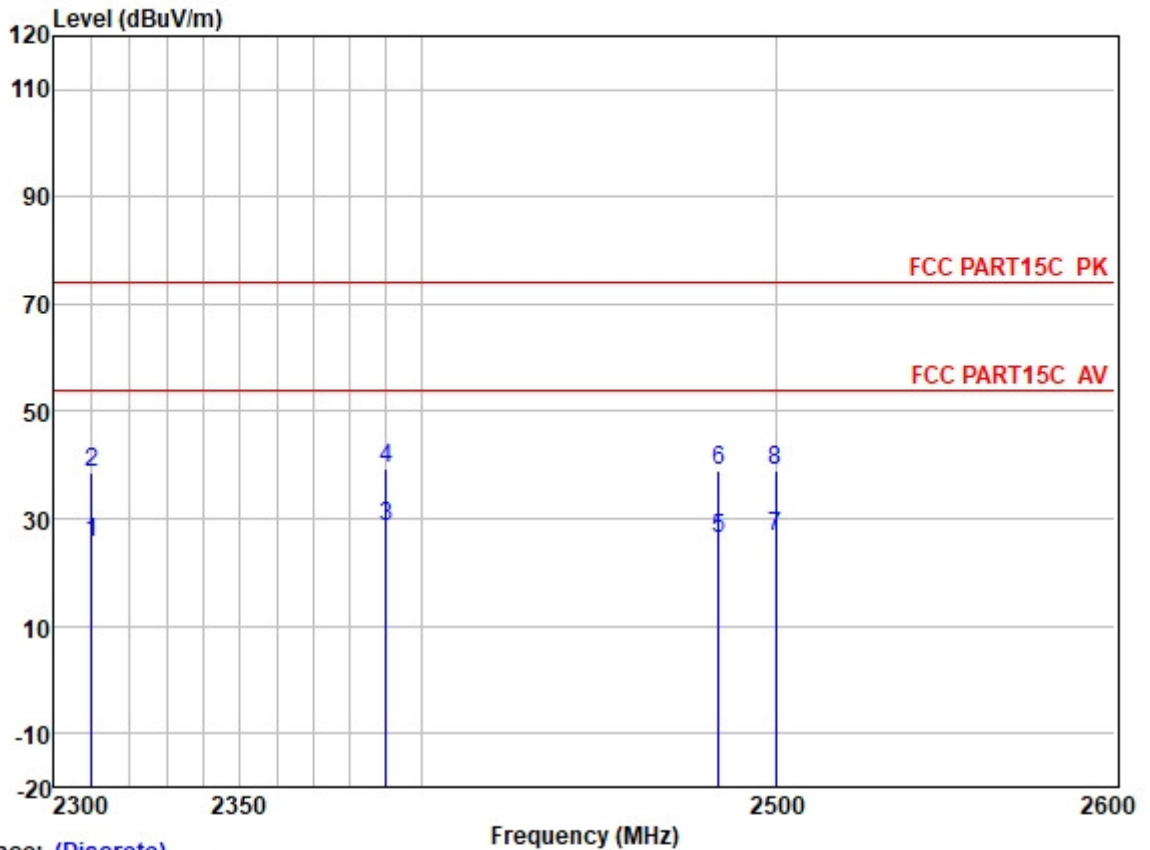
Trace: (Discrete)

	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2310.000	32.01	27.15	3.32	36.94	25.54	-28.46	VERTICAL	Average
2	2310.000	44.90	27.15	3.32	36.94	38.43	-35.57	VERTICAL	Peak
3	2390.000	32.74	27.33	3.48	36.92	26.63	-27.37	VERTICAL	Average
4	2390.000	44.67	27.33	3.48	36.92	38.56	-35.44	VERTICAL	Peak
5	2483.500	39.83	27.48	3.53	36.90	33.94	-20.06	VERTICAL	Average
6	2483.500	56.49	27.48	3.53	36.90	50.60	-23.40	VERTICAL	Peak
7	2500.000	34.88	27.50	3.40	36.89	28.89	-25.11	VERTICAL	Average
8	2500.000	44.56	27.50	3.40	36.89	38.57	-35.43	VERTICAL	Peak



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



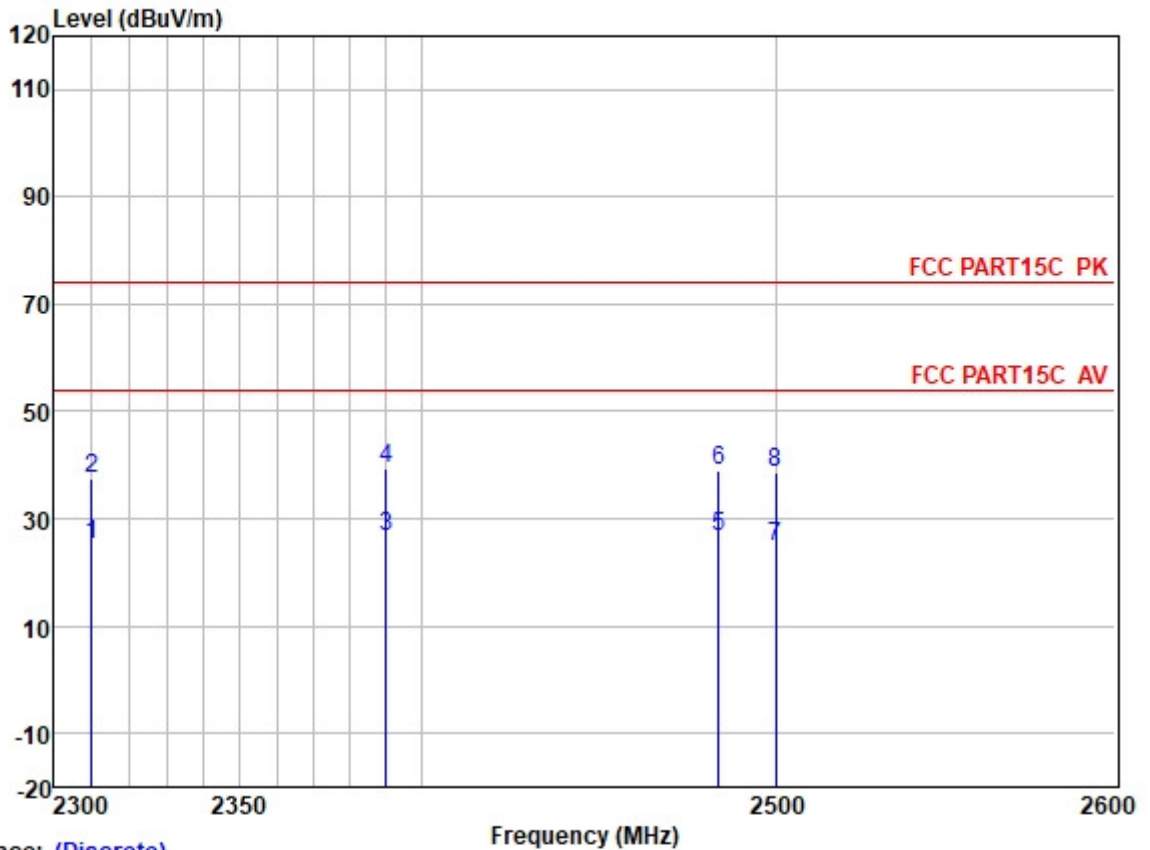
Trace: (Discrete)

	Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	31.91	27.15	3.32	36.94	25.44	-28.56	HORIZONTAL Average
2	2310.000	44.92	27.15	3.32	36.94	38.45	-35.55	HORIZONTAL Peak
3	2390.000	34.59	27.33	3.48	36.92	28.48	-25.52	HORIZONTAL Average
4	2390.000	45.31	27.33	3.48	36.92	39.20	-34.80	HORIZONTAL Peak
5	2483.500	32.36	27.48	3.53	36.90	26.47	-27.53	HORIZONTAL Average
6	2483.500	45.04	27.48	3.53	36.90	39.15	-34.85	HORIZONTAL Peak
7	2500.000	32.82	27.50	3.40	36.89	26.83	-27.17	HORIZONTAL Average
8	2500.000	44.98	27.50	3.40	36.89	38.99	-35.01	HORIZONTAL Peak



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



Trace: (Discrete)

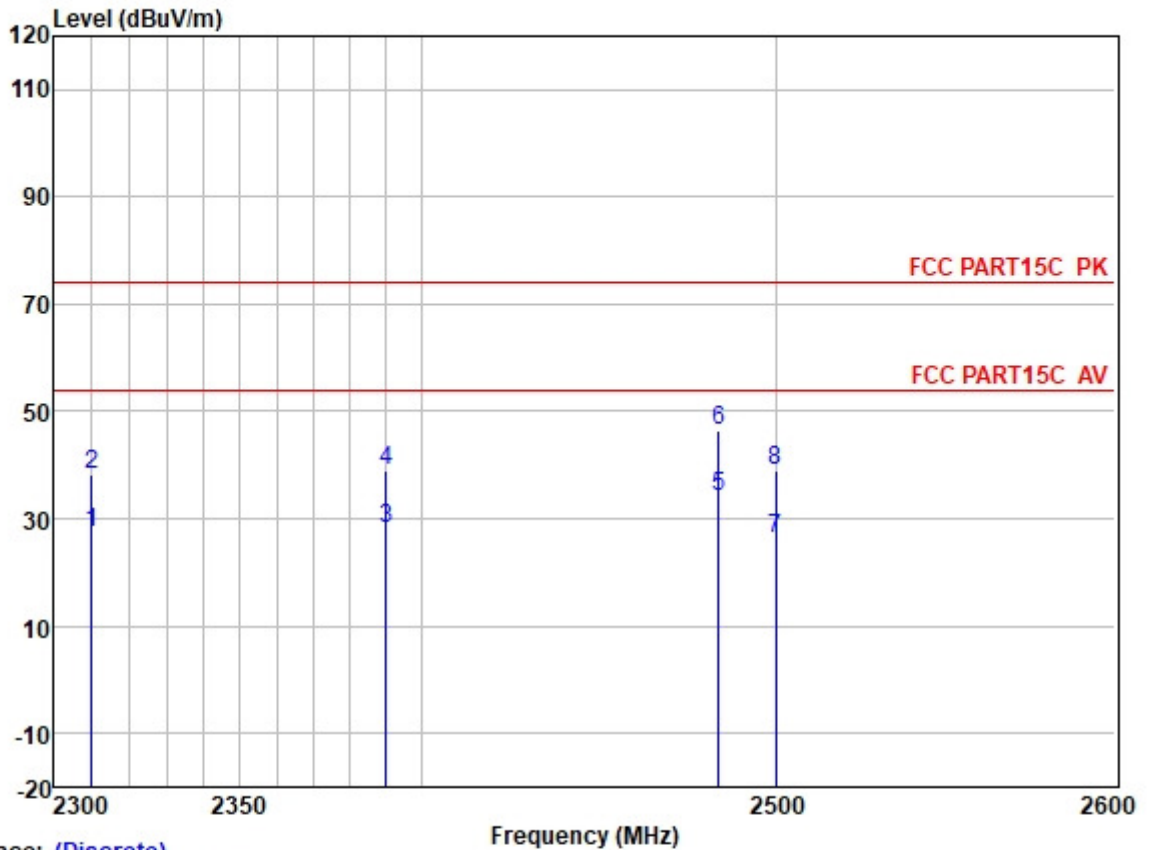
	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2310.000	31.72	27.15	3.32	36.94	25.25	54.00	-28.75	VERTICAL	Average
2	2310.000	44.07	27.15	3.32	36.94	37.60	74.00	-36.40	VERTICAL	Peak
3	2390.000	32.64	27.33	3.48	36.92	26.53	54.00	-27.47	VERTICAL	Average
4	2390.000	45.39	27.33	3.48	36.92	39.28	74.00	-34.72	VERTICAL	Peak
5	2483.500	32.52	27.48	3.53	36.90	26.63	54.00	-27.37	VERTICAL	Average
6	2483.500	44.84	27.48	3.53	36.90	38.95	74.00	-35.05	VERTICAL	Peak
7	2500.000	30.89	27.50	3.40	36.89	24.90	54.00	-29.10	VERTICAL	Average
8	2500.000	44.63	27.50	3.40	36.89	38.64	74.00	-35.36	VERTICAL	Peak



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



Trace: (Discrete)

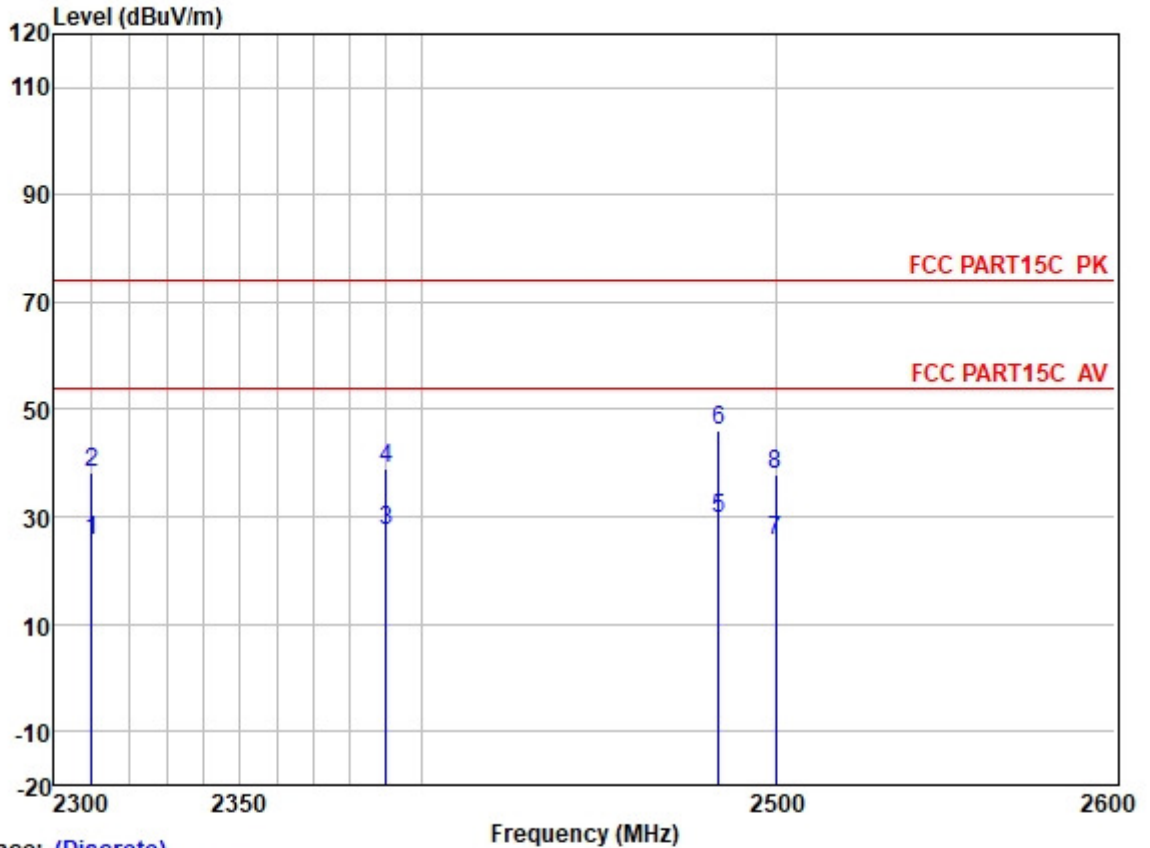
	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2310.000	33.78	27.15	3.32	36.94	27.31	54.00	-26.69	HORIZONTAL	Average
2	2310.000	44.56	27.15	3.32	36.94	38.09	74.00	-35.91	HORIZONTAL	Peak
3	2390.000	34.13	27.33	3.48	36.92	28.02	54.00	-25.98	HORIZONTAL	Average
4	2390.000	45.18	27.33	3.48	36.92	39.07	74.00	-34.93	HORIZONTAL	Peak
5	2483.500	39.99	27.48	3.53	36.90	34.10	54.00	-19.90	HORIZONTAL	Average
6	2483.500	52.36	27.48	3.53	36.90	46.47	74.00	-27.53	HORIZONTAL	Peak
7	2500.000	32.35	27.50	3.40	36.89	26.36	54.00	-27.64	HORIZONTAL	Average
8	2500.000	44.94	27.50	3.40	36.89	38.95	74.00	-35.05	HORIZONTAL	Peak



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



Trace: (Discrete)

	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2310.000	32.08	27.15	3.32	36.94	25.61	-28.39	VERTICAL	Average
2	2310.000	44.54	27.15	3.32	36.94	38.07	-35.93	VERTICAL	Peak
3	2390.000	33.41	27.33	3.48	36.92	27.30	-26.70	VERTICAL	Average
4	2390.000	45.09	27.33	3.48	36.92	38.98	-35.02	VERTICAL	Peak
5	2483.500	35.57	27.48	3.53	36.90	29.68	-24.32	VERTICAL	Average
6	2483.500	51.94	27.48	3.53	36.90	46.05	-27.95	VERTICAL	Peak
7	2500.000	31.72	27.50	3.40	36.89	25.73	-28.27	VERTICAL	Average
8	2500.000	43.94	27.50	3.40	36.89	37.95	-36.05	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: <1GHz 10m
 >1GHz 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

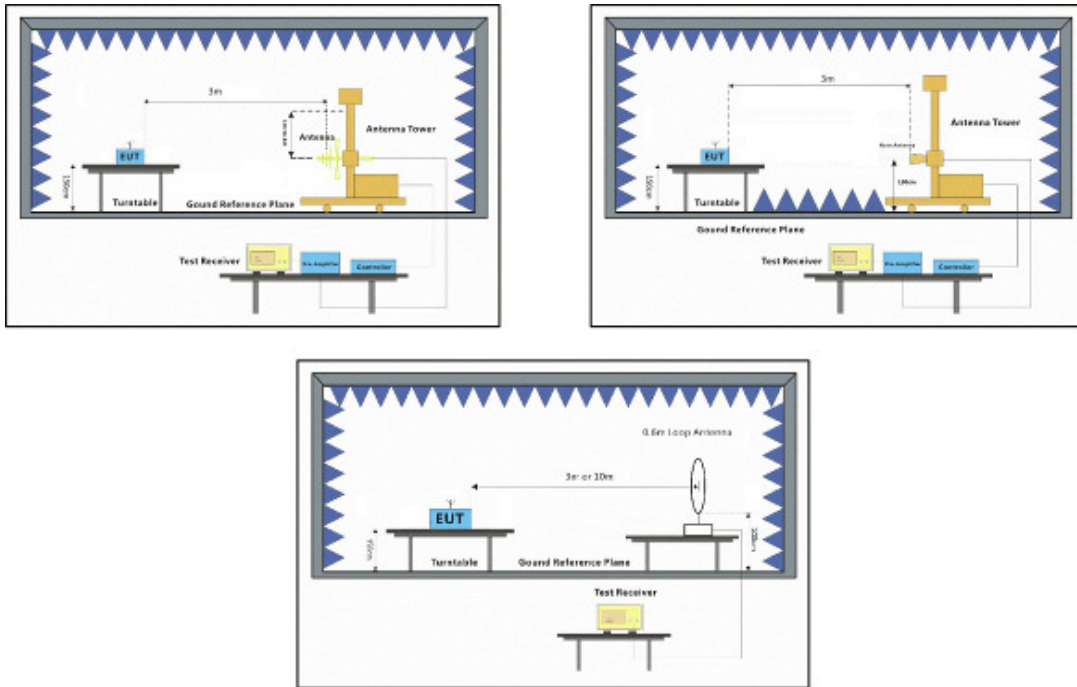
Operating Environment:

Temperature: 24.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode d:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation



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7.7.2 Test Setup Diagram



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7.7.3 Measurement Procedure and Data

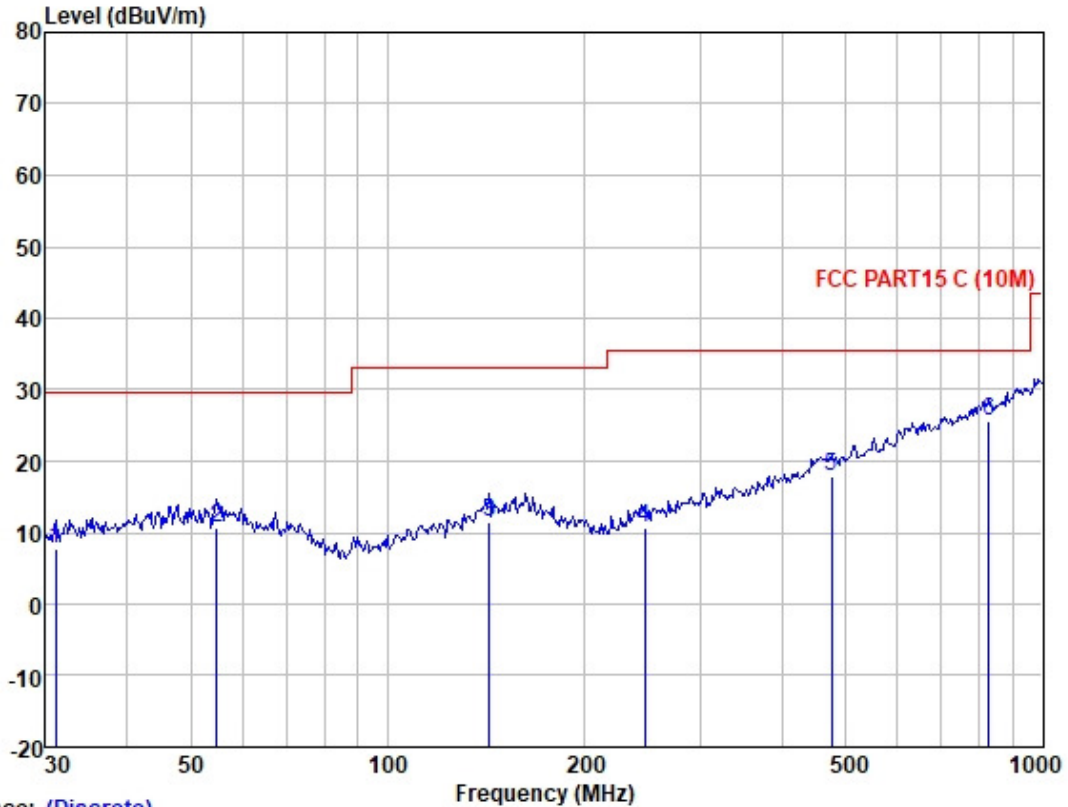
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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



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



Trace: (Discrete)

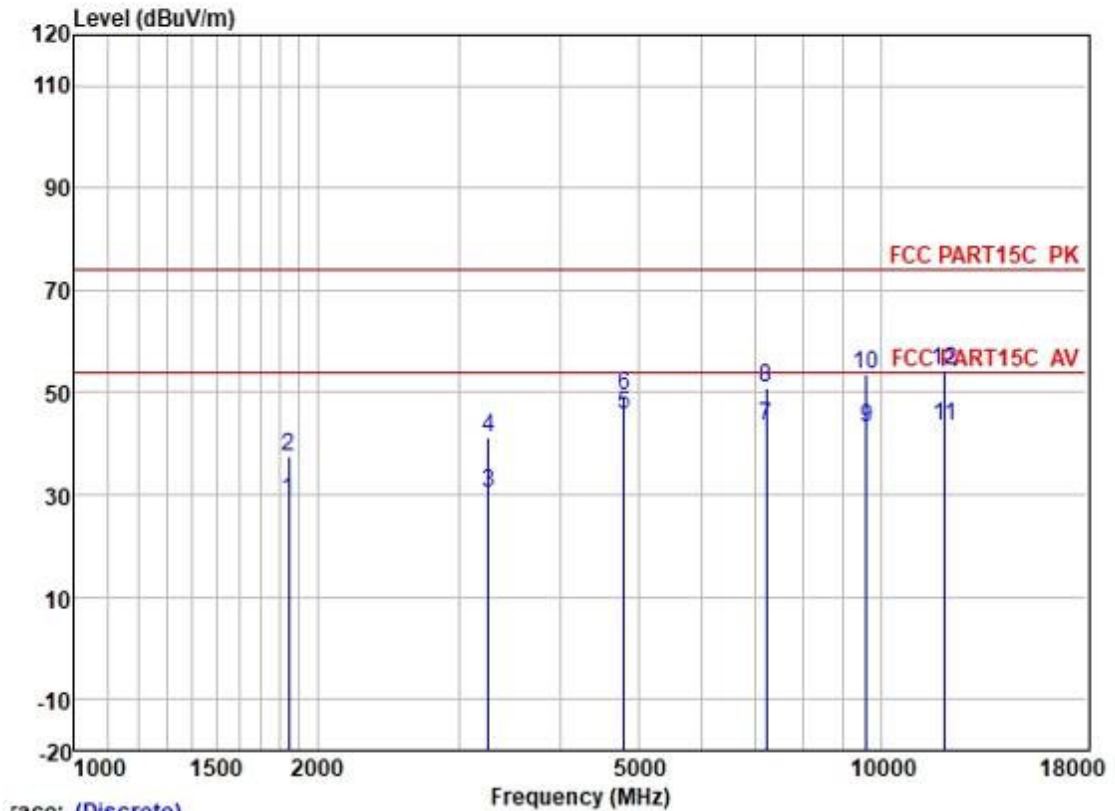
	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	dB	
1	31.071	21.29	12.57	1.01	27.20	7.67	29.50	-21.83	HORIZONTAL QP
2	54.835	22.91	13.76	1.27	27.17	10.77	29.50	-18.73	HORIZONTAL QP
3	142.824	22.87	13.55	1.99	26.93	11.48	33.10	-21.62	HORIZONTAL QP
4	246.815	22.98	12.03	2.69	26.92	10.78	35.60	-24.82	HORIZONTAL QP
5	475.499	24.31	17.50	4.11	28.02	17.90	35.60	-17.70	HORIZONTAL QP
6	827.493	25.37	22.72	5.71	28.09	25.71	35.60	-9.89	HORIZONTAL QP



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



Trace: (Discrete)

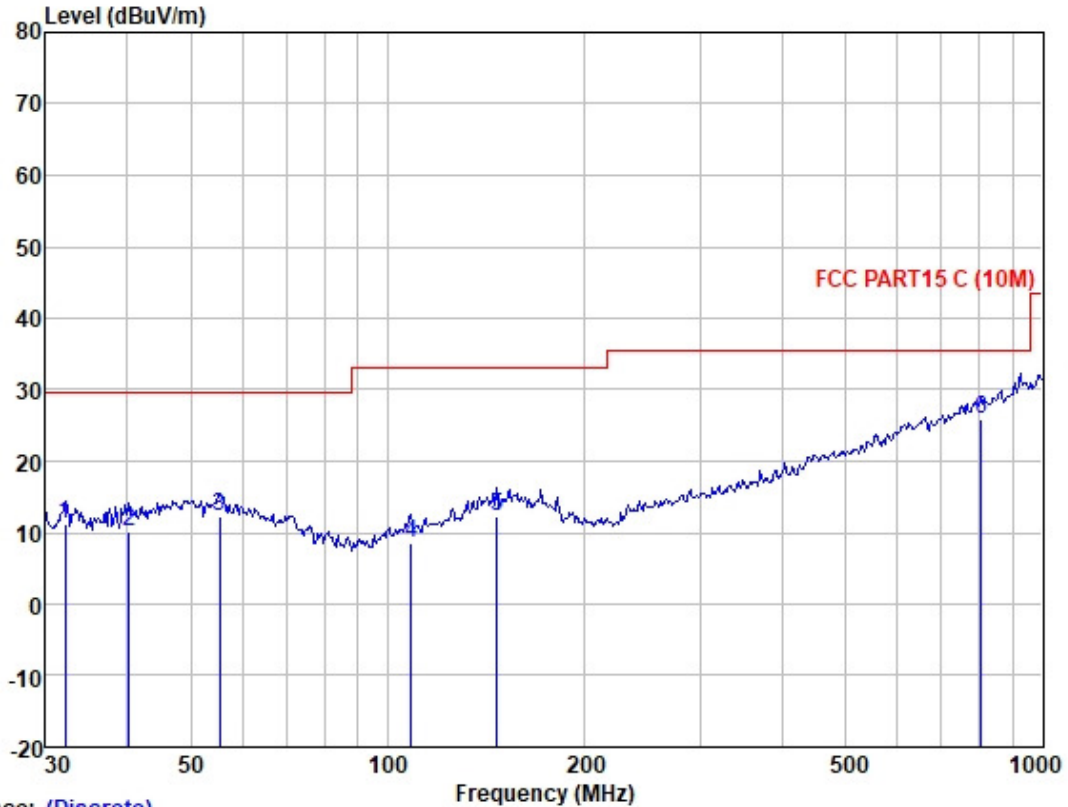
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1845.516	36.96	25.99	2.95	37.02	28.88	54.00	-25.12	HORIZONTAL	Average
2	1845.516	45.55	25.99	2.95	37.02	37.47	74.00	-36.53	HORIZONTAL	Peak
3	3261.418	34.17	28.70	4.03	36.49	30.41	54.00	-23.59	HORIZONTAL	Average
4	3261.418	44.88	28.70	4.03	36.49	41.12	74.00	-32.88	HORIZONTAL	Peak
5	4804.419	45.51	31.42	5.40	36.48	45.85	54.00	-8.15	HORIZONTAL	Average
6	4804.419	48.93	31.42	5.40	36.48	49.27	74.00	-24.73	HORIZONTAL	Peak
7	7206.429	38.60	35.54	5.98	36.75	43.37	54.00	-10.63	HORIZONTAL	Average
8	7206.429	46.27	35.54	5.98	36.75	51.04	74.00	-22.96	HORIZONTAL	Peak
9	9608.450	34.18	38.37	7.07	36.36	43.26	54.00	-10.74	HORIZONTAL	Average
10	9608.450	44.63	38.37	7.07	36.36	53.71	74.00	-20.29	HORIZONTAL	Peak
11	12010.740	32.96	38.90	8.19	36.40	43.65	54.00	-10.35	HORIZONTAL	Average
12	12010.740	43.61	38.90	8.19	36.40	54.30	74.00	-19.70	HORIZONTAL	Peak



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



Trace: (Discrete)

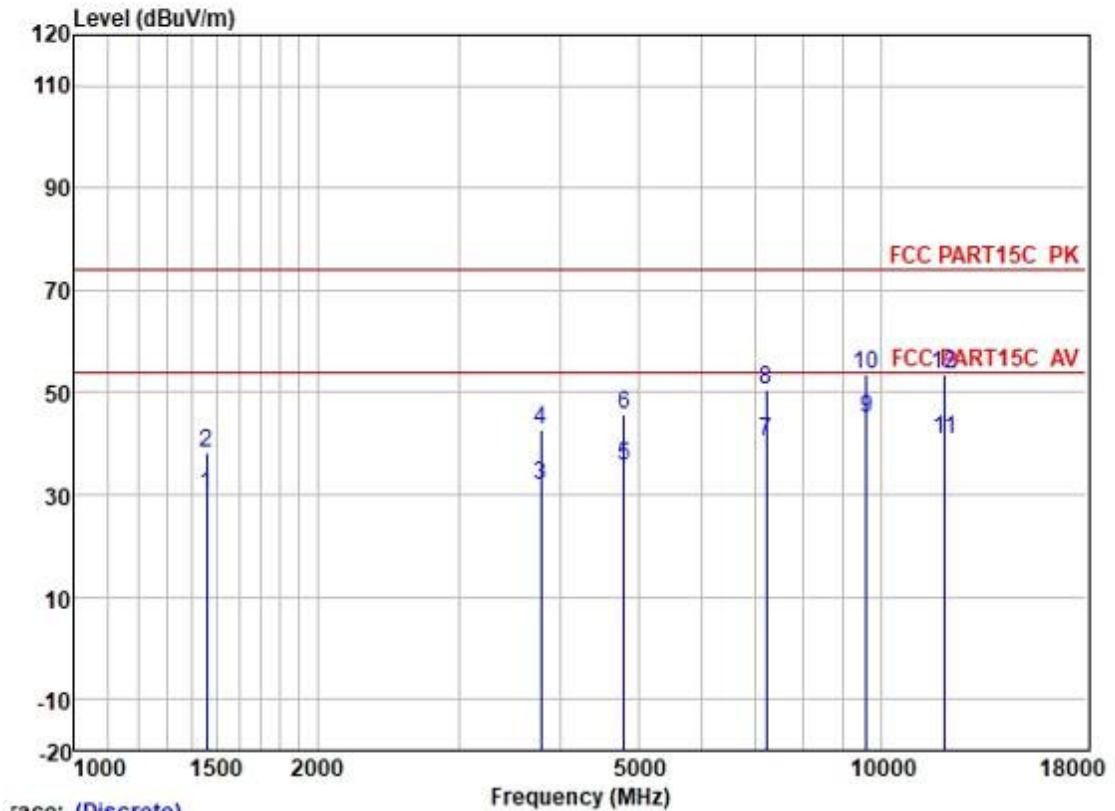
	Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dB	
1	32.179	24.67	12.71	1.01	27.19	11.20	-18.30	VERTICAL QP
2	40.276	22.71	13.52	1.07	27.18	10.12	-19.38	VERTICAL QP
3	55.221	24.50	13.74	1.28	27.17	12.35	-17.15	VERTICAL QP
4	108.647	23.61	10.33	1.70	27.08	8.56	-24.54	VERTICAL QP
5	146.888	23.52	13.70	2.03	26.90	12.35	-20.75	VERTICAL QP
6	804.603	25.29	22.65	5.99	28.12	25.81	-9.79	VERTICAL QP



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



Trace: (Discrete)

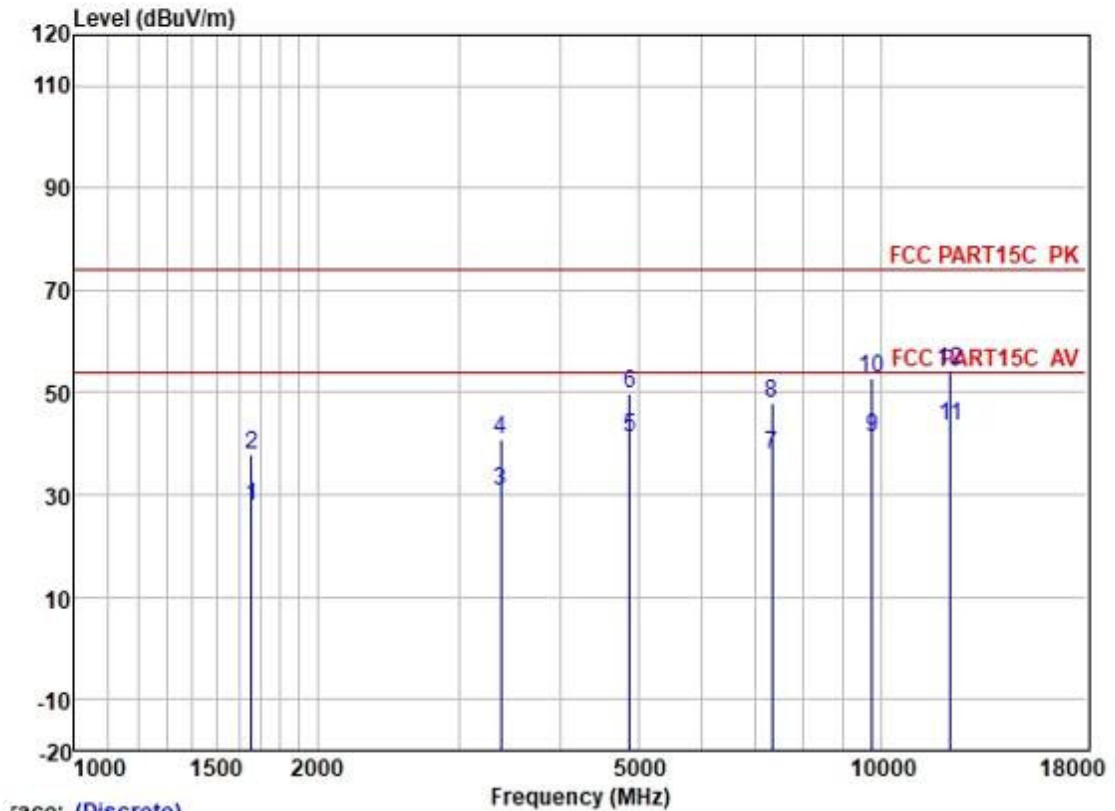
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1460.295	38.96	25.46	2.73	37.14	30.01	54.00	-23.99	VERTICAL	Average
2	1460.295	47.16	25.46	2.73	37.14	38.21	74.00	-35.79	VERTICAL	Peak
3	3790.361	34.17	29.50	4.60	36.42	31.85	54.00	-22.15	VERTICAL	Average
4	3790.361	44.87	29.50	4.60	36.42	42.55	74.00	-31.45	VERTICAL	Peak
5	4804.069	35.27	31.42	5.40	36.48	35.61	54.00	-18.39	VERTICAL	Average
6	4804.069	45.24	31.42	5.40	36.48	45.58	74.00	-28.42	VERTICAL	Peak
7	7206.049	35.84	35.54	5.98	36.75	40.61	54.00	-13.39	VERTICAL	Average
8	7206.049	45.80	35.54	5.98	36.75	50.57	74.00	-23.43	VERTICAL	Peak
9	9608.450	35.70	38.37	7.07	36.36	44.78	54.00	-9.22	VERTICAL	Average
10	9608.450	44.47	38.37	7.07	36.36	53.55	74.00	-20.45	VERTICAL	Peak
11	12010.900	30.28	38.90	8.19	36.40	40.97	54.00	-13.03	VERTICAL	Average
12	12010.900	42.83	38.90	8.19	36.40	53.52	74.00	-20.48	VERTICAL	Peak



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



Trace: (Discrete)

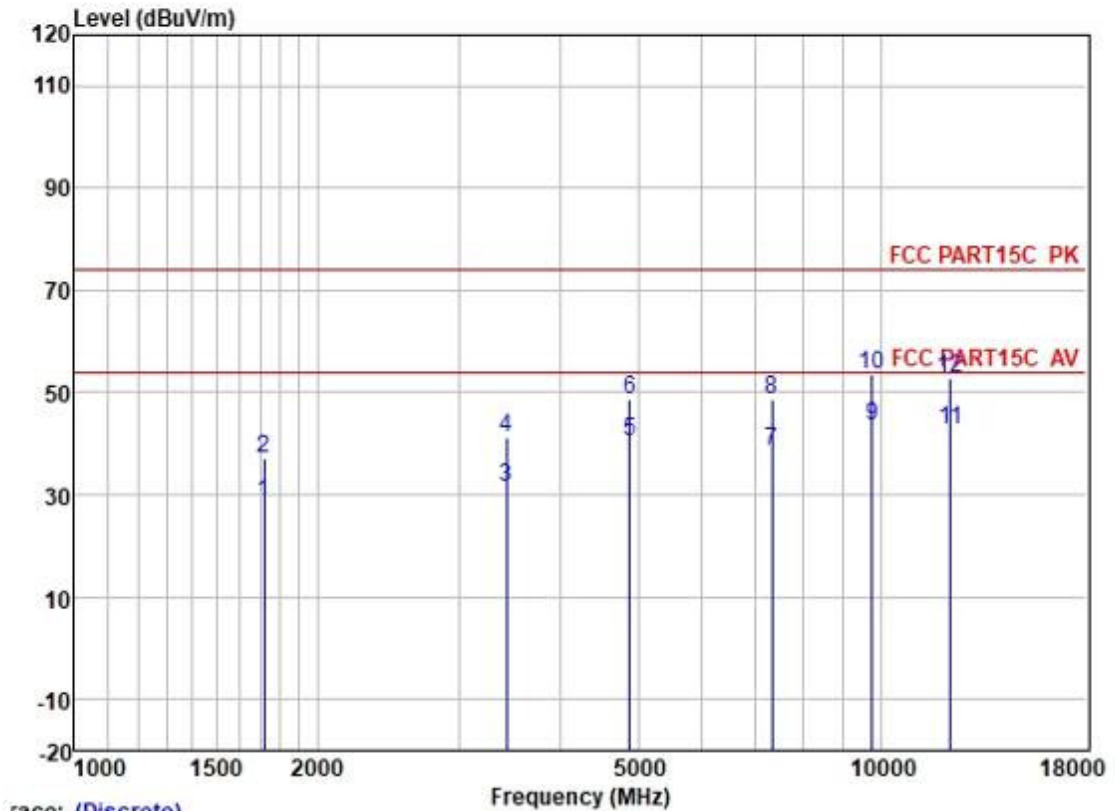
	Read	Antenna	Cable	Preamp	Level	Limit	Over		
	Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1658.337	36.28	25.65	2.80	37.06	27.67	54.00	-26.33	HORIZONTAL Average
2	1658.337	46.50	25.65	2.80	37.06	37.89	74.00	-36.11	HORIZONTAL Peak
3	3376.523	34.17	28.83	4.09	36.47	30.62	54.00	-23.38	HORIZONTAL Average
4	3376.523	44.23	28.83	4.09	36.47	40.68	74.00	-33.32	HORIZONTAL Peak
5	4884.948	40.53	31.56	5.52	36.50	41.11	54.00	-12.89	HORIZONTAL Average
6	4884.948	49.19	31.56	5.52	36.50	49.77	74.00	-24.23	HORIZONTAL Peak
7	7326.708	32.62	36.00	6.13	36.76	37.99	54.00	-16.01	HORIZONTAL Average
8	7326.708	42.51	36.00	6.13	36.76	47.88	74.00	-26.12	HORIZONTAL Peak
9	9764.972	32.16	38.50	7.02	36.33	41.35	54.00	-12.65	HORIZONTAL Average
10	9764.972	43.78	38.50	7.02	36.33	52.97	74.00	-21.03	HORIZONTAL Peak
11	12210.100	33.02	38.74	8.08	36.30	43.54	54.00	-10.46	HORIZONTAL Average
12	12210.100	43.78	38.74	8.08	36.30	54.30	74.00	-19.70	HORIZONTAL Peak



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



Trace: (Discrete)

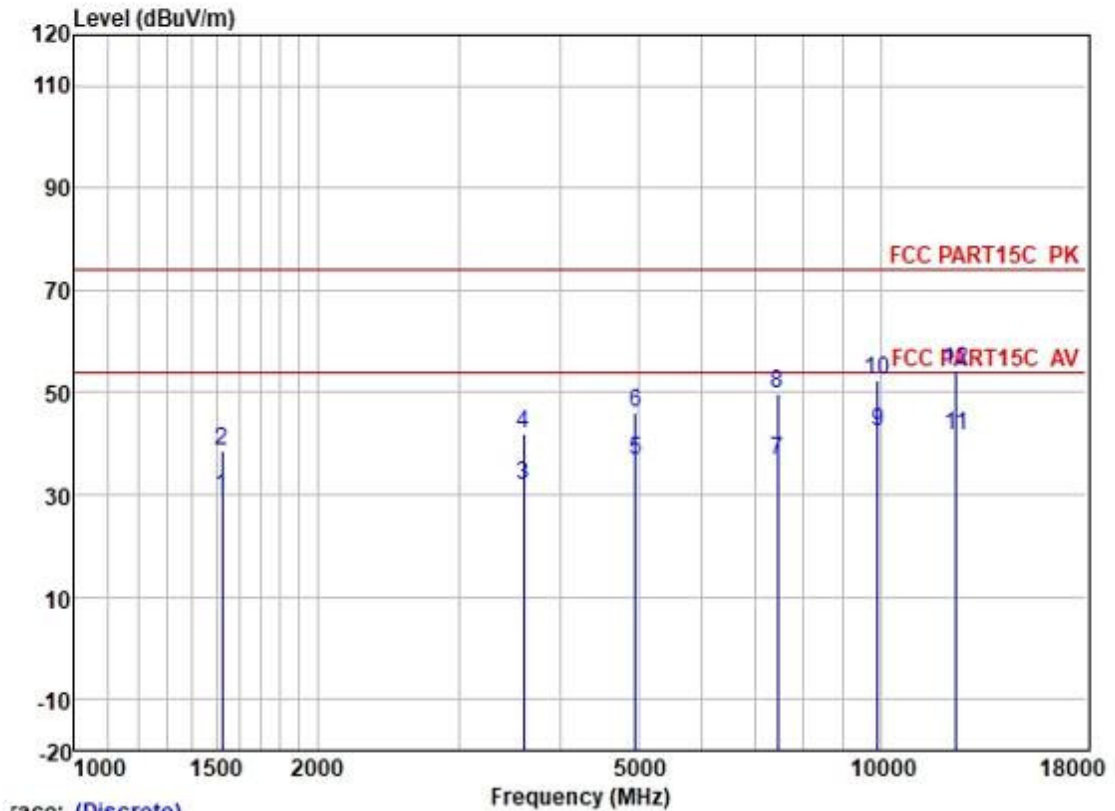
	Read	Antenna	Cable	Preamp	Level	Limit	Over		
	Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1716.864	36.91	25.76	2.82	37.04	28.45	54.00	-25.55	VERTICAL Average
2	1716.864	45.60	25.76	2.82	37.04	37.14	74.00	-36.86	VERTICAL Peak
3	3435.590	34.85	28.87	4.16	36.46	31.42	54.00	-22.58	VERTICAL Average
4	3435.590	44.84	28.87	4.16	36.46	41.41	74.00	-32.59	VERTICAL Peak
5	4884.440	39.72	31.56	5.52	36.50	40.30	54.00	-13.70	VERTICAL Average
6	4884.440	48.27	31.56	5.52	36.50	48.85	74.00	-25.15	VERTICAL Peak
7	7326.474	33.26	36.00	6.13	36.76	38.63	54.00	-15.37	VERTICAL Average
8	7326.474	43.46	36.00	6.13	36.76	48.83	74.00	-25.17	VERTICAL Peak
9	9768.540	34.17	38.53	7.01	36.33	43.38	54.00	-10.62	VERTICAL Average
10	9768.540	44.20	38.53	7.01	36.33	53.41	74.00	-20.59	VERTICAL Peak
11	12210.700	32.06	38.74	8.08	36.30	42.58	54.00	-11.42	VERTICAL Average
12	12210.700	42.18	38.74	8.08	36.30	52.70	74.00	-21.30	VERTICAL Peak



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



Trace: (Discrete)

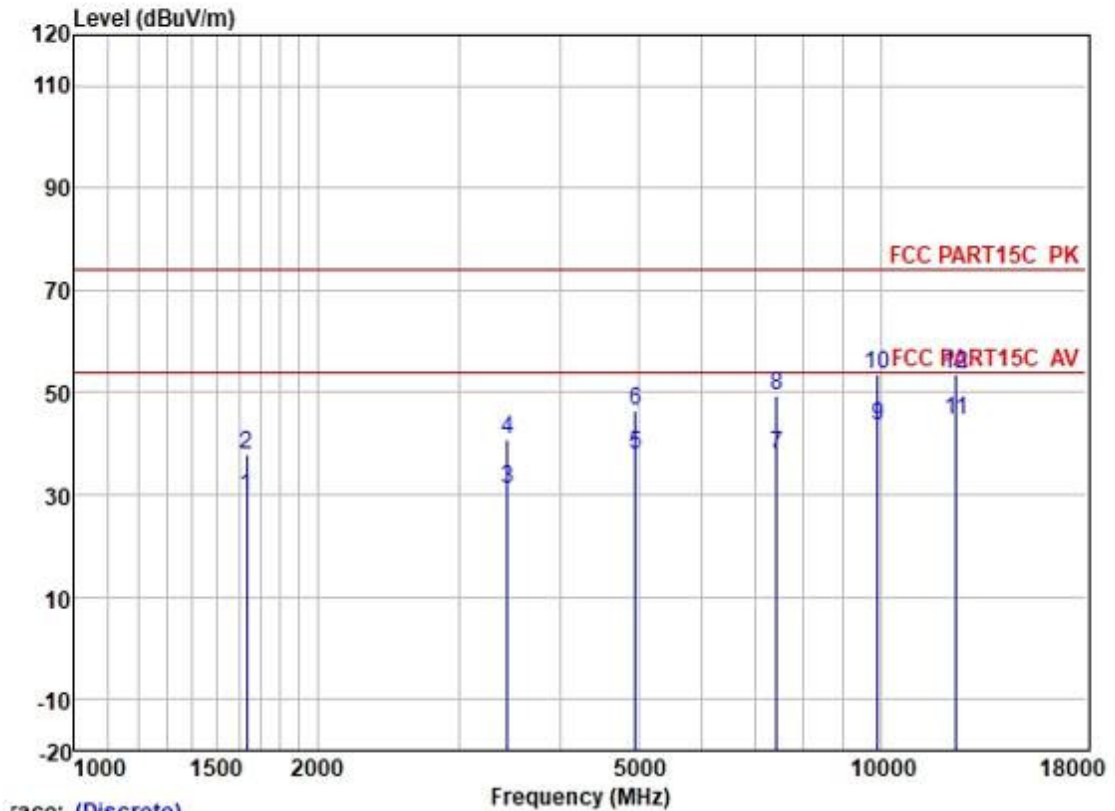
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1525.000	38.28	25.52	2.80	37.10	29.50	54.00	-24.50	HORIZONTAL	Average
2	1525.000	47.55	25.52	2.80	37.10	38.77	74.00	-35.23	HORIZONTAL	Peak
3	3608.619	34.66	29.05	4.50	36.44	31.77	54.00	-22.23	HORIZONTAL	Average
4	3608.619	44.81	29.05	4.50	36.44	41.92	74.00	-32.08	HORIZONTAL	Peak
5	4960.047	35.90	31.65	5.65	36.52	36.68	54.00	-17.32	HORIZONTAL	Average
6	4960.047	45.27	31.65	5.65	36.52	46.05	74.00	-27.95	HORIZONTAL	Peak
7	7440.888	31.18	36.27	6.22	36.77	36.90	54.00	-17.10	HORIZONTAL	Average
8	7440.888	43.95	36.27	6.22	36.77	49.67	74.00	-24.33	HORIZONTAL	Peak
9	9920.640	33.02	38.65	6.96	36.31	42.32	54.00	-11.68	HORIZONTAL	Average
10	9920.640	43.12	38.65	6.96	36.31	52.42	74.00	-21.58	HORIZONTAL	Peak
11	12400.820	31.27	38.57	7.97	36.17	41.64	54.00	-12.36	HORIZONTAL	Average
12	12400.820	43.90	38.57	7.97	36.17	54.27	74.00	-19.73	HORIZONTAL	Peak



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



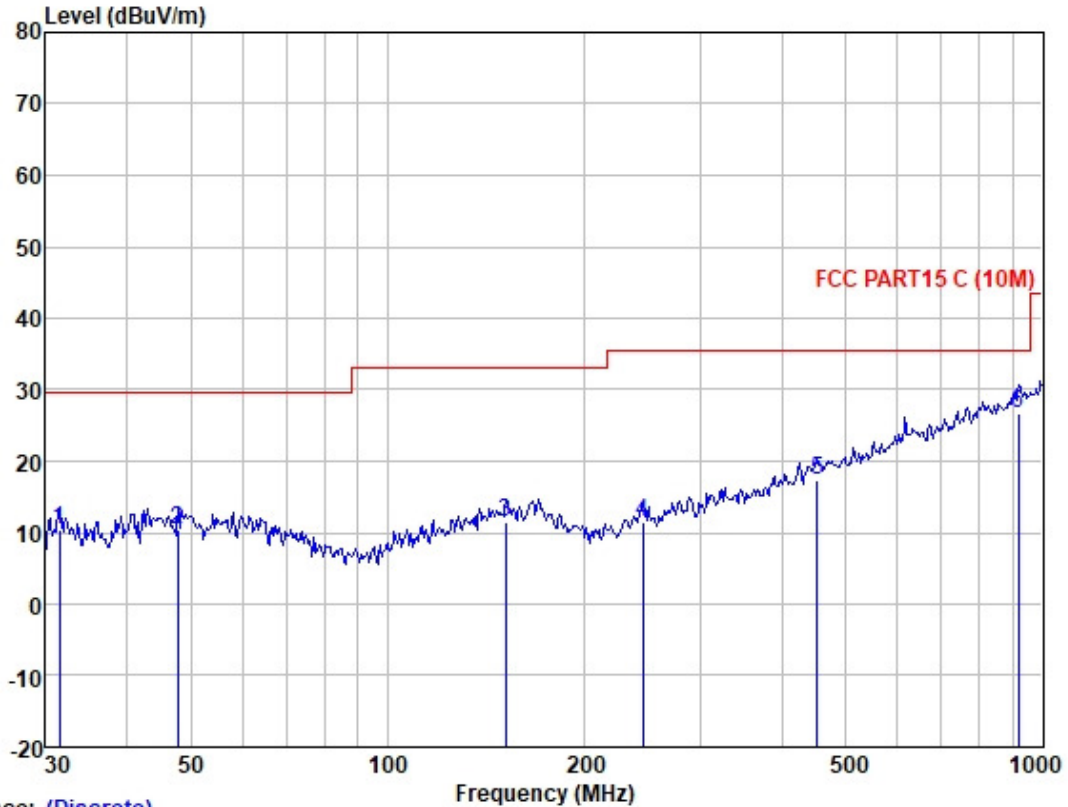
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1634.543	38.18	25.62	2.80	37.06	29.54	54.00	-24.46	VERTICAL	Average
2	1634.543	46.38	25.62	2.80	37.06	37.74	74.00	-36.26	VERTICAL	Peak
3	3445.535	34.42	28.87	4.18	36.46	31.01	54.00	-22.99	VERTICAL	Average
4	3445.535	44.30	28.87	4.18	36.46	40.89	74.00	-33.11	VERTICAL	Peak
5	4960.977	36.98	31.65	5.65	36.52	37.76	54.00	-16.24	VERTICAL	Average
6	4960.977	45.76	31.65	5.65	36.52	46.54	74.00	-27.46	VERTICAL	Peak
7	7440.461	32.17	36.27	6.22	36.77	37.89	54.00	-16.11	VERTICAL	Average
8	7440.461	43.81	36.27	6.22	36.77	49.53	74.00	-24.47	VERTICAL	Peak
9	9920.312	34.25	38.65	6.96	36.31	43.55	54.00	-10.45	VERTICAL	Average
10	9920.312	44.26	38.65	6.96	36.31	53.56	74.00	-20.44	VERTICAL	Peak
11	12400.950	34.14	38.57	7.97	36.17	44.51	54.00	-9.49	VERTICAL	Average
12	12400.950	43.06	38.57	7.97	36.17	53.43	74.00	-20.57	VERTICAL	Peak



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



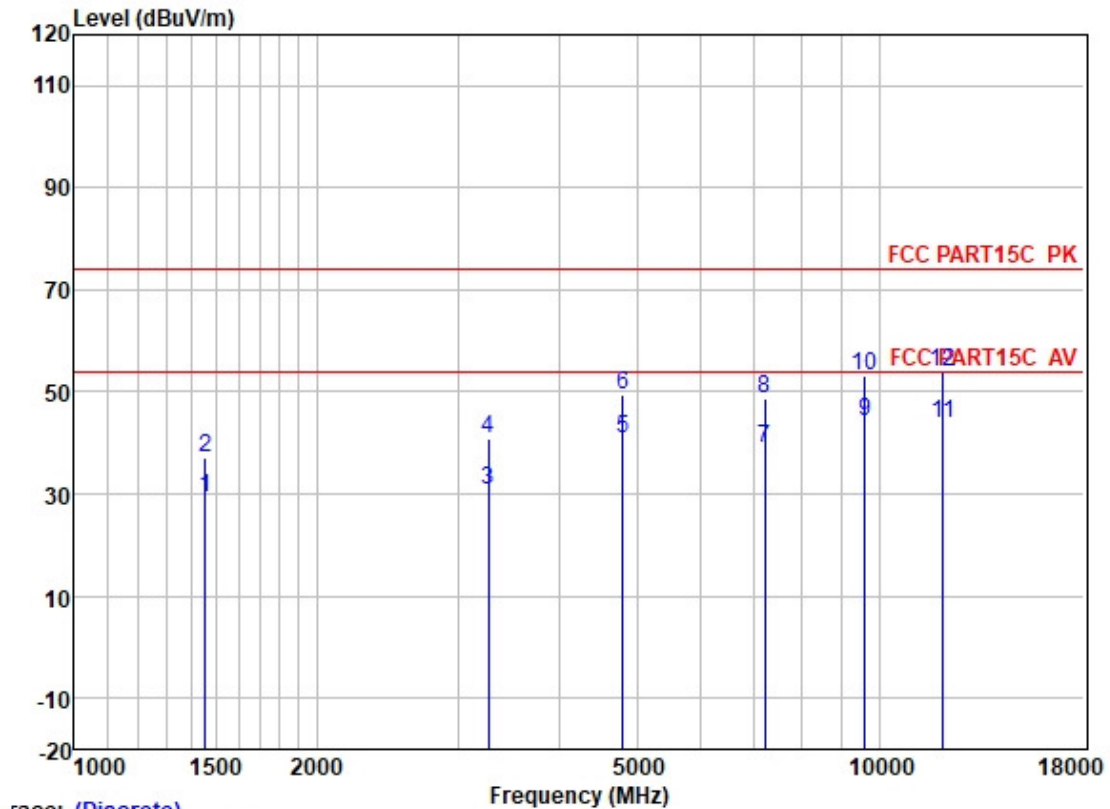
Trace: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	31.510	23.83	12.64	1.01	27.20	10.28	-19.22	HORIZONTAL	QP
2	47.659	22.38	13.99	1.19	27.17	10.39	-19.11	HORIZONTAL	QP
3	151.067	22.42	13.80	2.06	26.88	11.40	-21.70	HORIZONTAL	QP
4	245.090	23.65	12.00	2.68	26.92	11.41	-24.19	HORIZONTAL	QP
5	452.720	23.76	17.37	4.12	27.99	17.26	-18.34	HORIZONTAL	QP
6	919.287	24.21	23.60	6.63	27.90	26.54	-9.06	HORIZONTAL	QP



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Trace: (Discrete)

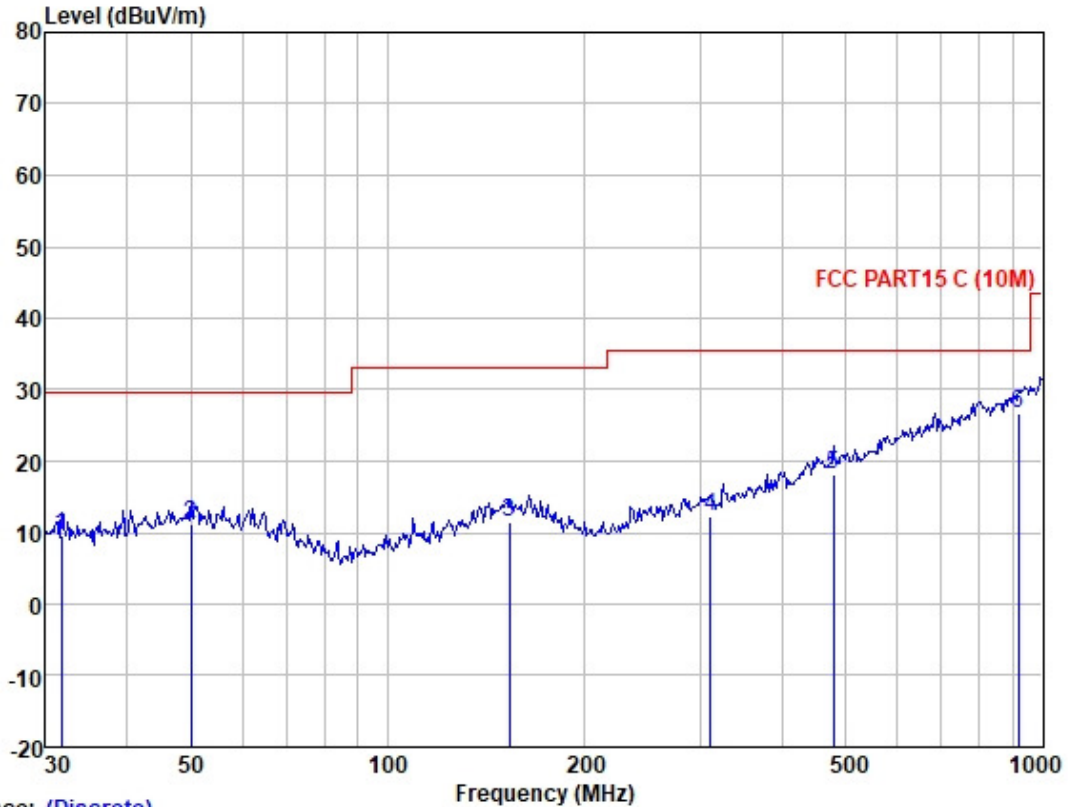
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1456.081	38.14	25.46	2.72	37.15	29.17	54.00	-24.83	HORIZONTAL	Average
2	1456.081	46.12	25.46	2.72	37.15	37.15	74.00	-36.85	HORIZONTAL	Peak
3	3270.858	34.66	28.71	4.04	36.49	30.92	54.00	-23.08	HORIZONTAL	Average
4	3270.858	44.75	28.71	4.04	36.49	41.01	74.00	-32.99	HORIZONTAL	Peak
5	4804.016	40.38	31.42	5.40	36.48	40.72	54.00	-13.28	HORIZONTAL	Average
6	4804.016	49.11	31.42	5.40	36.48	49.45	74.00	-24.55	HORIZONTAL	Peak
7	7206.052	34.16	35.54	5.98	36.75	38.93	54.00	-15.07	HORIZONTAL	Average
8	7206.052	44.09	35.54	5.98	36.75	48.86	74.00	-25.14	HORIZONTAL	Peak
9	9608.187	34.98	38.37	7.07	36.36	44.06	54.00	-9.94	HORIZONTAL	Average
10	9608.187	44.04	38.37	7.07	36.36	53.12	74.00	-20.88	HORIZONTAL	Peak
11	12010.100	33.03	38.90	8.19	36.40	43.72	54.00	-10.28	HORIZONTAL	Average
12	12010.100	43.11	38.90	8.19	36.40	53.80	74.00	-20.20	HORIZONTAL	Peak



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



Trace: (Discrete)

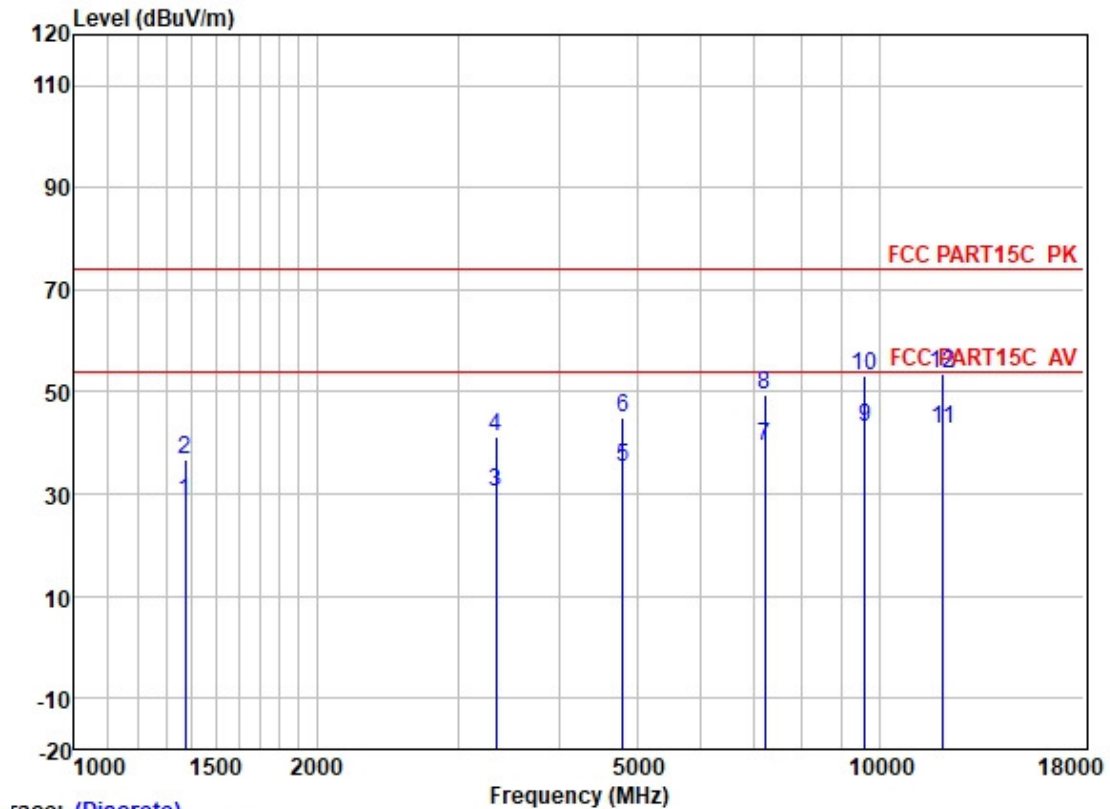
	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	dB	
1	31.731	23.15	12.67	1.01	27.19	9.64	29.50	-19.86	VERTICAL QP
2	50.057	23.18	13.90	1.19	27.17	11.10	29.50	-18.40	VERTICAL QP
3	153.200	22.55	13.80	2.09	26.87	11.57	33.10	-21.53	VERTICAL QP
4	311.087	22.56	13.95	2.99	27.34	12.16	35.60	-23.44	VERTICAL QP
5	478.846	24.50	17.57	4.08	28.03	18.12	35.60	-17.48	VERTICAL QP
6	919.287	24.38	23.60	6.63	27.90	26.71	35.60	-8.89	VERTICAL QP



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



Trace: (Discrete)

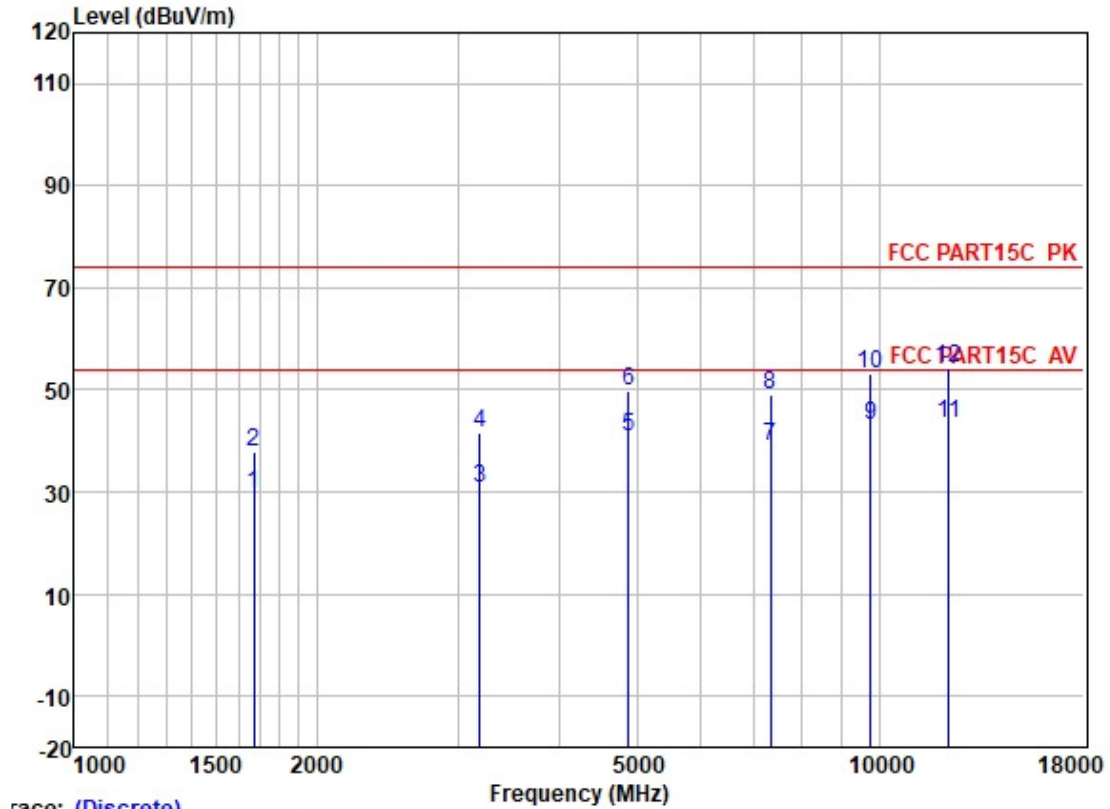
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1374.295	37.90	25.35	2.60	37.25	28.60	54.00	-25.40	VERTICAL	Average
2	1374.295	46.05	25.35	2.60	37.25	36.75	74.00	-37.25	VERTICAL	Peak
3	3337.710	34.15	28.79	4.08	36.48	30.54	54.00	-23.46	VERTICAL	Average
4	3337.710	44.83	28.79	4.08	36.48	41.22	74.00	-32.78	VERTICAL	Peak
5	4804.299	34.86	31.42	5.40	36.48	35.20	54.00	-18.80	VERTICAL	Average
6	4804.299	44.53	31.42	5.40	36.48	44.87	74.00	-29.13	VERTICAL	Peak
7	7206.267	34.71	35.54	5.98	36.75	39.48	54.00	-14.52	VERTICAL	Average
8	7206.267	44.61	35.54	5.98	36.75	49.38	74.00	-24.62	VERTICAL	Peak
9	9608.430	33.98	38.37	7.07	36.36	43.06	54.00	-10.94	VERTICAL	Average
10	9608.430	44.04	38.37	7.07	36.36	53.12	74.00	-20.88	VERTICAL	Peak
11	12010.580	32.17	38.90	8.19	36.40	42.86	54.00	-11.14	VERTICAL	Average
12	12010.580	42.78	38.90	8.19	36.40	53.47	74.00	-20.53	VERTICAL	Peak



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



Trace: (Discrete)

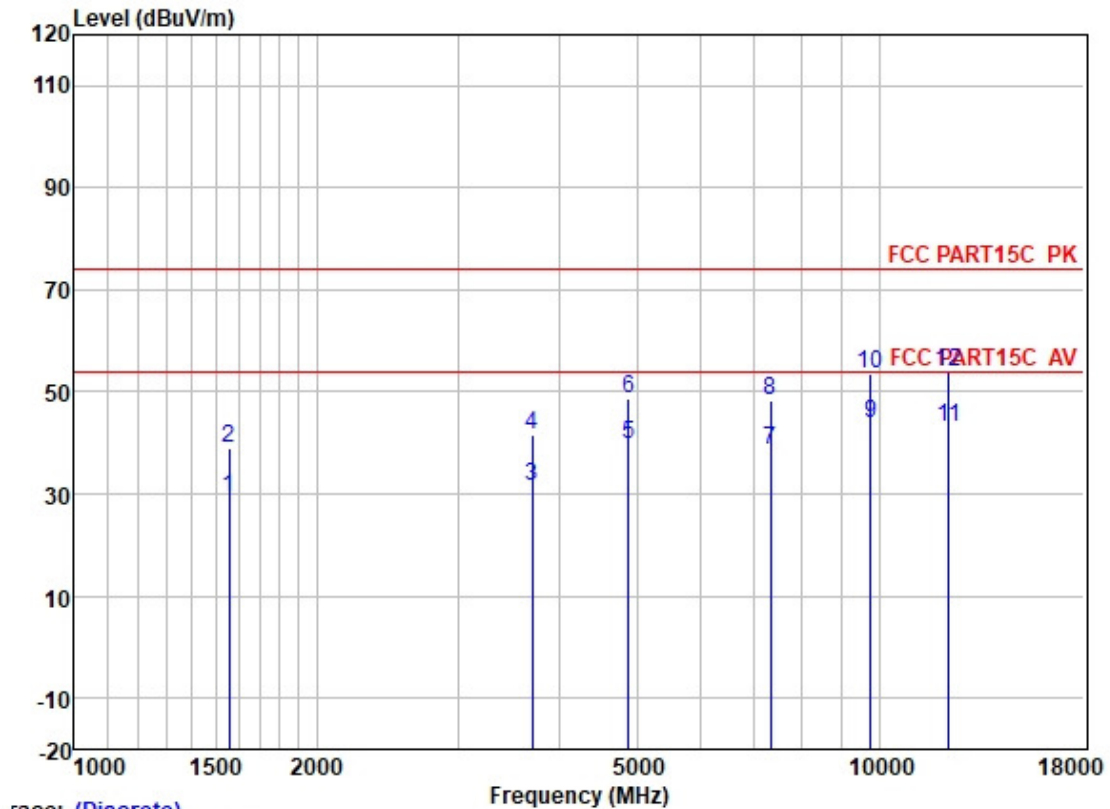
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	38.21	25.67	2.80	37.05	29.63	54.00	-24.37	HORIZONTAL	Average
2	1672.779	46.36	25.67	2.80	37.05	37.78	74.00	-36.22	HORIZONTAL	Peak
3	3186.869	34.72	28.57	3.99	36.51	30.77	54.00	-23.23	HORIZONTAL	Average
4	3186.869	45.47	28.57	3.99	36.51	41.52	74.00	-32.48	HORIZONTAL	Peak
5	4884.948	40.36	31.56	5.52	36.50	40.94	54.00	-13.06	HORIZONTAL	Average
6	4884.948	49.19	31.56	5.52	36.50	49.77	74.00	-24.23	HORIZONTAL	Peak
7	7326.741	33.61	36.00	6.13	36.76	38.98	54.00	-15.02	HORIZONTAL	Average
8	7326.741	43.86	36.00	6.13	36.76	49.23	74.00	-24.77	HORIZONTAL	Peak
9	9768.240	34.05	38.53	7.01	36.33	43.26	54.00	-10.74	HORIZONTAL	Average
10	9768.240	44.04	38.53	7.01	36.33	53.25	74.00	-20.75	HORIZONTAL	Peak
11	12210.440	32.96	38.74	8.08	36.30	43.48	54.00	-10.52	HORIZONTAL	Average
12	12210.440	43.81	38.74	8.08	36.30	54.33	74.00	-19.67	HORIZONTAL	Peak



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



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1556.169	38.19	25.54	2.80	37.09	29.44	54.00	-24.56	VERTICAL	Average
2	1556.169	47.56	25.54	2.80	37.09	38.81	74.00	-35.19	VERTICAL	Peak
3	3703.723	34.25	29.25	4.56	36.43	31.63	54.00	-22.37	VERTICAL	Average
4	3703.723	44.29	29.25	4.56	36.43	41.67	74.00	-32.33	VERTICAL	Peak
5	4884.440	39.18	31.56	5.52	36.50	39.76	54.00	-14.24	VERTICAL	Average
6	4884.440	48.27	31.56	5.52	36.50	48.85	74.00	-25.15	VERTICAL	Peak
7	7326.806	33.25	36.00	6.13	36.76	38.62	54.00	-15.38	VERTICAL	Average
8	7326.806	43.12	36.00	6.13	36.76	48.49	74.00	-25.51	VERTICAL	Peak
9	9768.430	34.55	38.53	7.01	36.33	43.76	54.00	-10.24	VERTICAL	Average
10	9768.430	44.44	38.53	7.01	36.33	53.65	74.00	-20.35	VERTICAL	Peak
11	12210.270	32.75	38.74	8.08	36.30	43.27	54.00	-10.73	VERTICAL	Average
12	12210.270	43.39	38.74	8.08	36.30	53.91	74.00	-20.09	VERTICAL	Peak

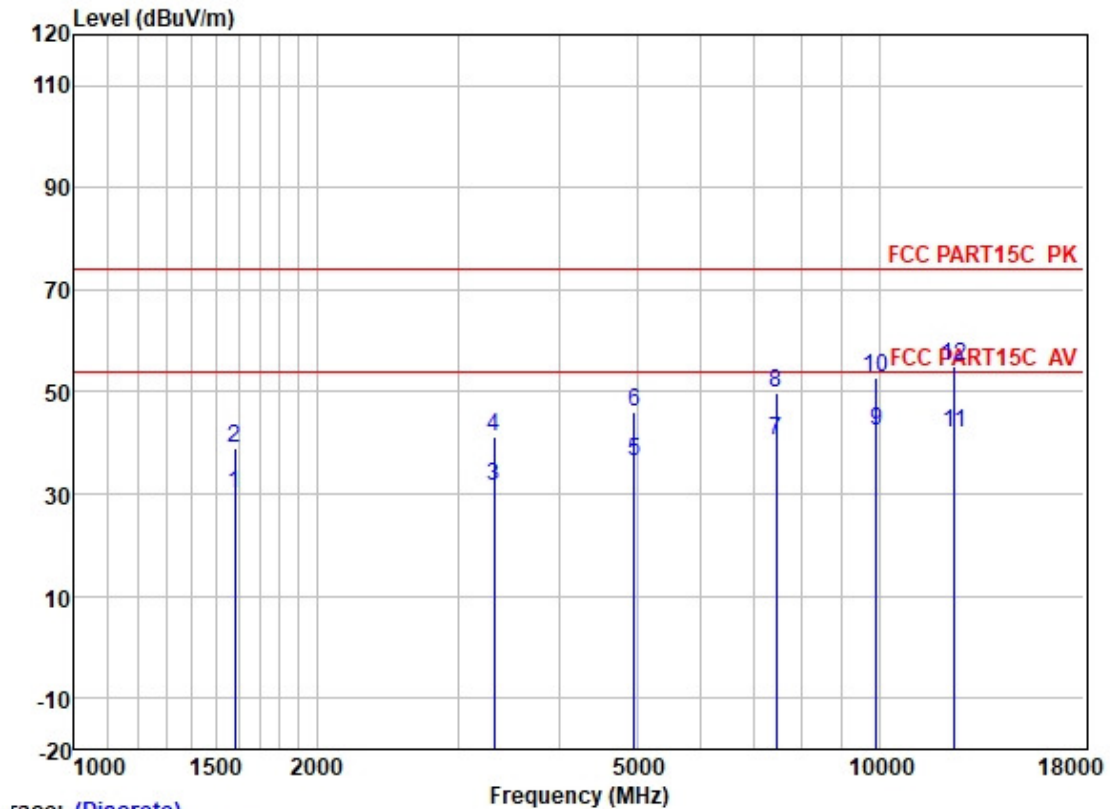


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 Guangzhou Branch: 198 Kazhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China. 510663 | (86-20) 82155555 | (86-20) 82075058 | sgs.china@sgs.com

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



Trace: (Discrete)

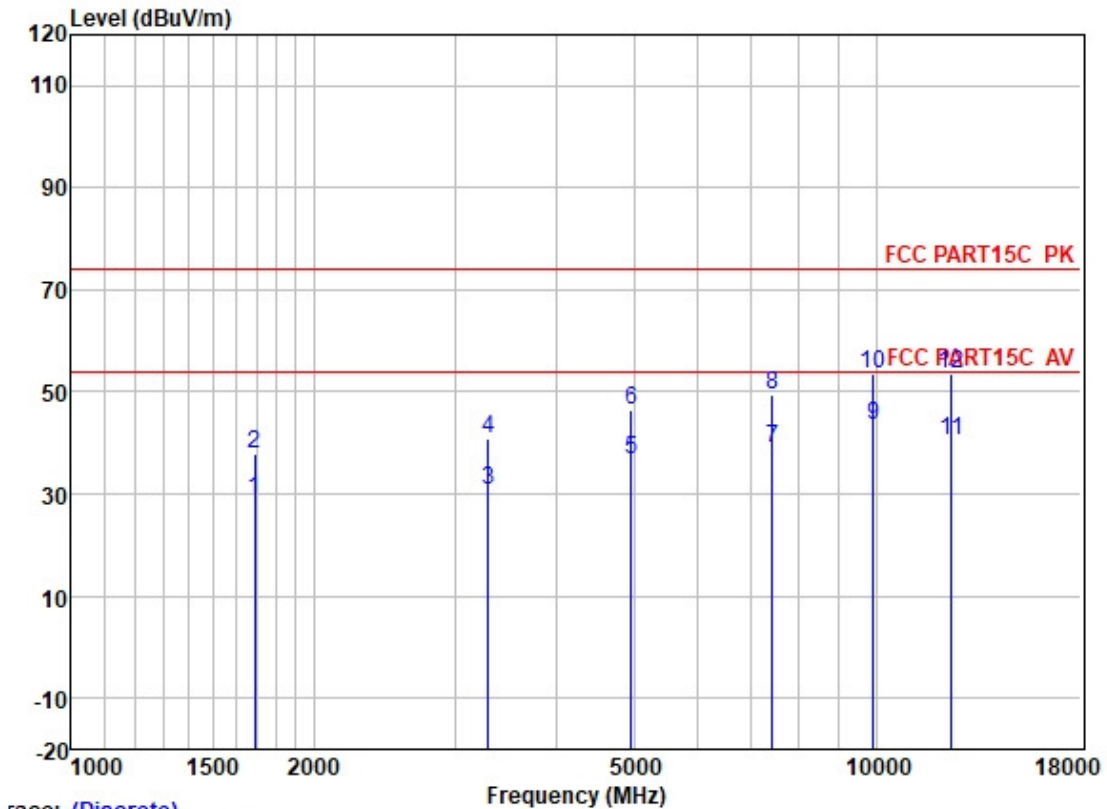
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1583.392	38.66	25.56	2.80	37.08	29.94	54.00	-24.06	HORIZONTAL	Average
2	1583.392	47.76	25.56	2.80	37.08	39.04	74.00	-34.96	HORIZONTAL	Peak
3	3328.077	35.29	28.78	4.07	36.48	31.66	54.00	-22.34	HORIZONTAL	Average
4	3328.077	44.72	28.78	4.07	36.48	41.09	74.00	-32.91	HORIZONTAL	Peak
5	4960.047	35.42	31.65	5.65	36.52	36.20	54.00	-17.80	HORIZONTAL	Average
6	4960.047	45.27	31.65	5.65	36.52	46.05	74.00	-27.95	HORIZONTAL	Peak
7	7440.741	34.71	36.27	6.22	36.77	40.43	54.00	-13.57	HORIZONTAL	Average
8	7440.741	44.11	36.27	6.22	36.77	49.83	74.00	-24.17	HORIZONTAL	Peak
9	9920.149	33.05	38.65	6.96	36.31	42.35	54.00	-11.65	HORIZONTAL	Average
10	9920.149	43.60	38.65	6.96	36.31	52.90	74.00	-21.10	HORIZONTAL	Peak
11	12400.210	31.74	38.57	7.97	36.17	42.11	54.00	-11.89	HORIZONTAL	Average
12	12400.210	44.50	38.57	7.97	36.17	54.87	74.00	-19.13	HORIZONTAL	Peak



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



Trace: (Discrete)

	Freq	Read Level	Antenna 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	1692.231	37.60	25.70	2.80	37.05	29.05	54.00	-24.95	VERTICAL	Average
2	1692.231	46.39	25.70	2.80	37.05	37.84	74.00	-36.16	VERTICAL	Peak
3	3299.344	34.49	28.75	4.06	36.49	30.81	54.00	-23.19	VERTICAL	Average
4	3299.344	44.67	28.75	4.06	36.49	40.99	74.00	-33.01	VERTICAL	Peak
5	4960.977	35.87	31.65	5.65	36.52	36.65	54.00	-17.35	VERTICAL	Average
6	4960.977	45.76	31.65	5.65	36.52	46.54	74.00	-27.46	VERTICAL	Peak
7	7440.150	33.12	36.27	6.22	36.77	38.84	54.00	-15.16	VERTICAL	Average
8	7440.150	43.64	36.27	6.22	36.77	49.36	74.00	-24.64	VERTICAL	Peak
9	9920.432	34.18	38.65	6.96	36.31	43.48	54.00	-10.52	VERTICAL	Average
10	9920.432	44.07	38.65	6.96	36.31	53.37	74.00	-20.63	VERTICAL	Peak
11	12400.620	30.28	38.57	7.97	36.17	40.65	54.00	-13.35	VERTICAL	Average
12	12400.620	43.27	38.57	7.97	36.17	53.64	74.00	-20.36	VERTICAL	Peak



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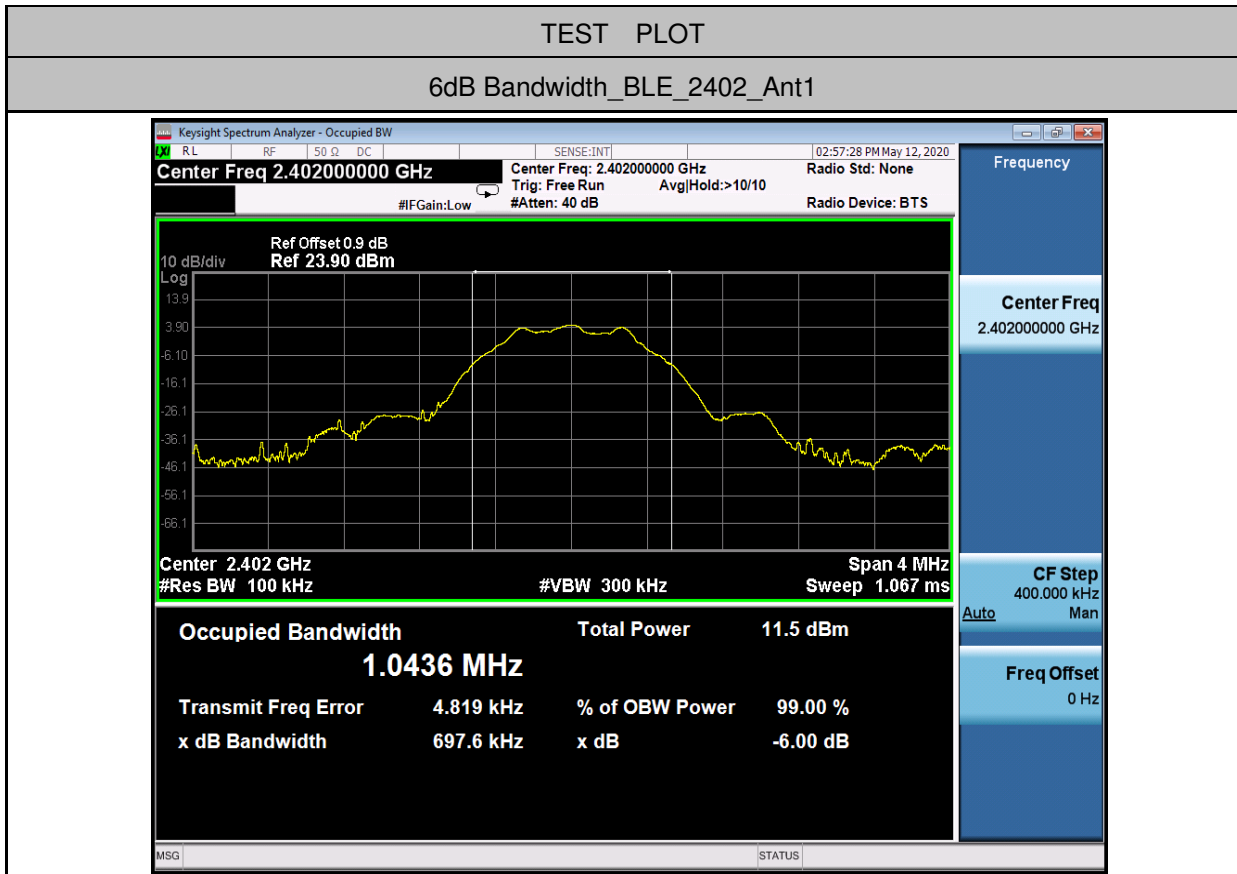
8 Appendix

8.1 Appendix 15.247

Cable Loss=0.9dB

1.6dB Bandwidth

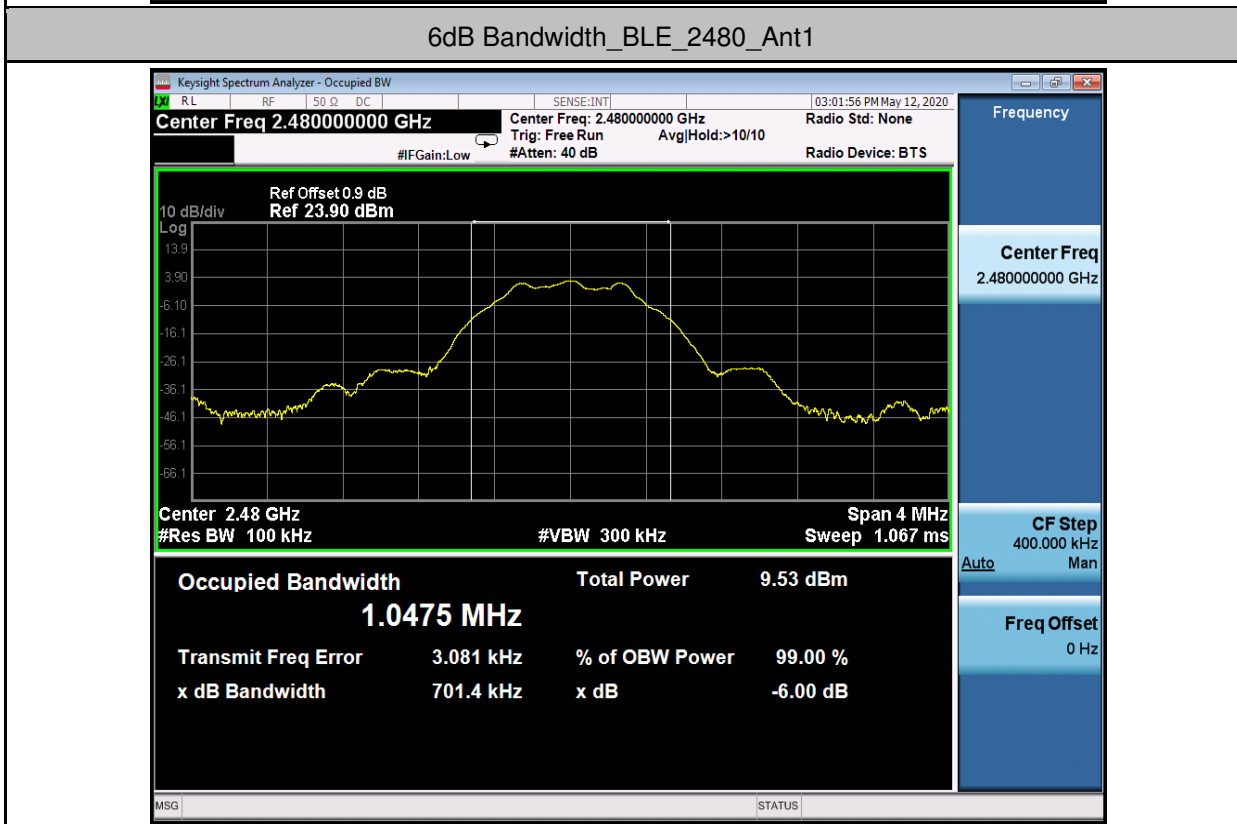
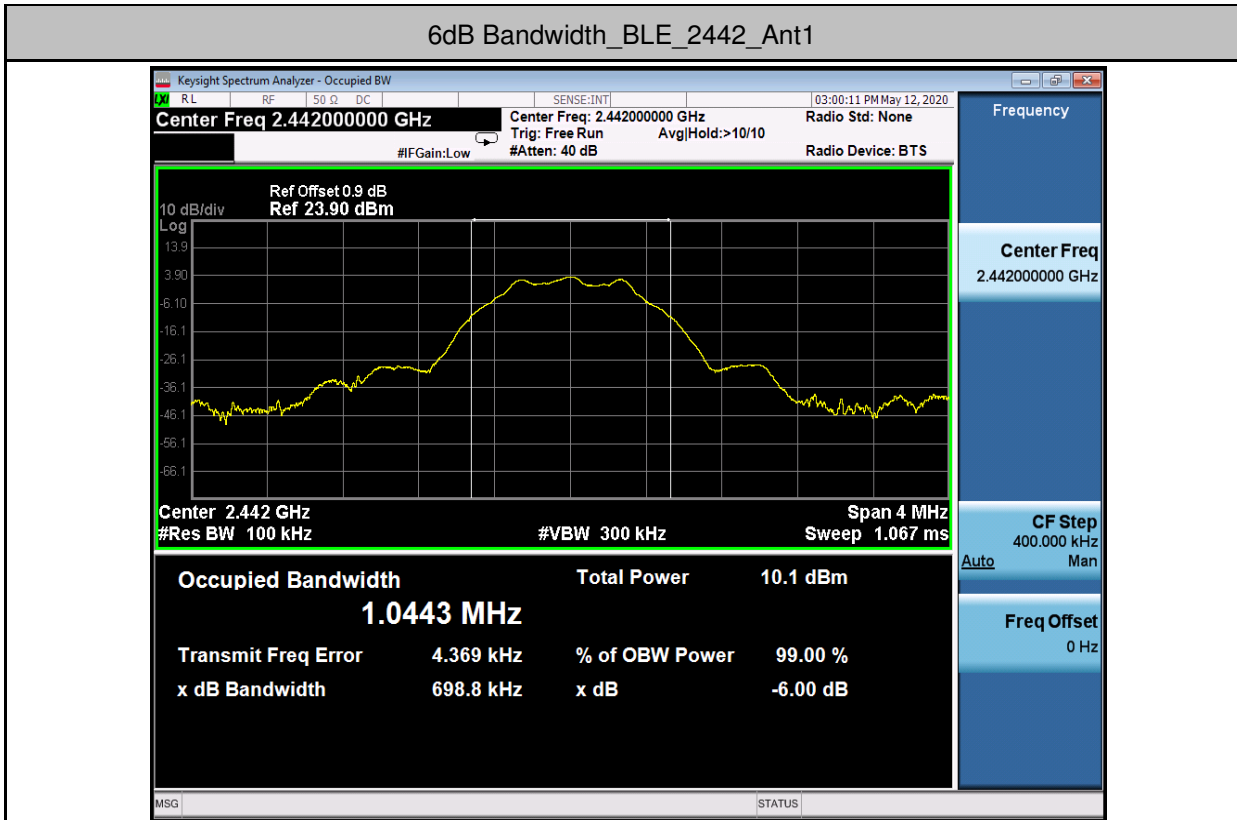
Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.0435	0.6976	0.5	PASS
BLE	2442	Ant1	1.0443	0.6988	0.5	PASS
BLE	2480	Ant1	1.0473	0.6997	0.5	PASS



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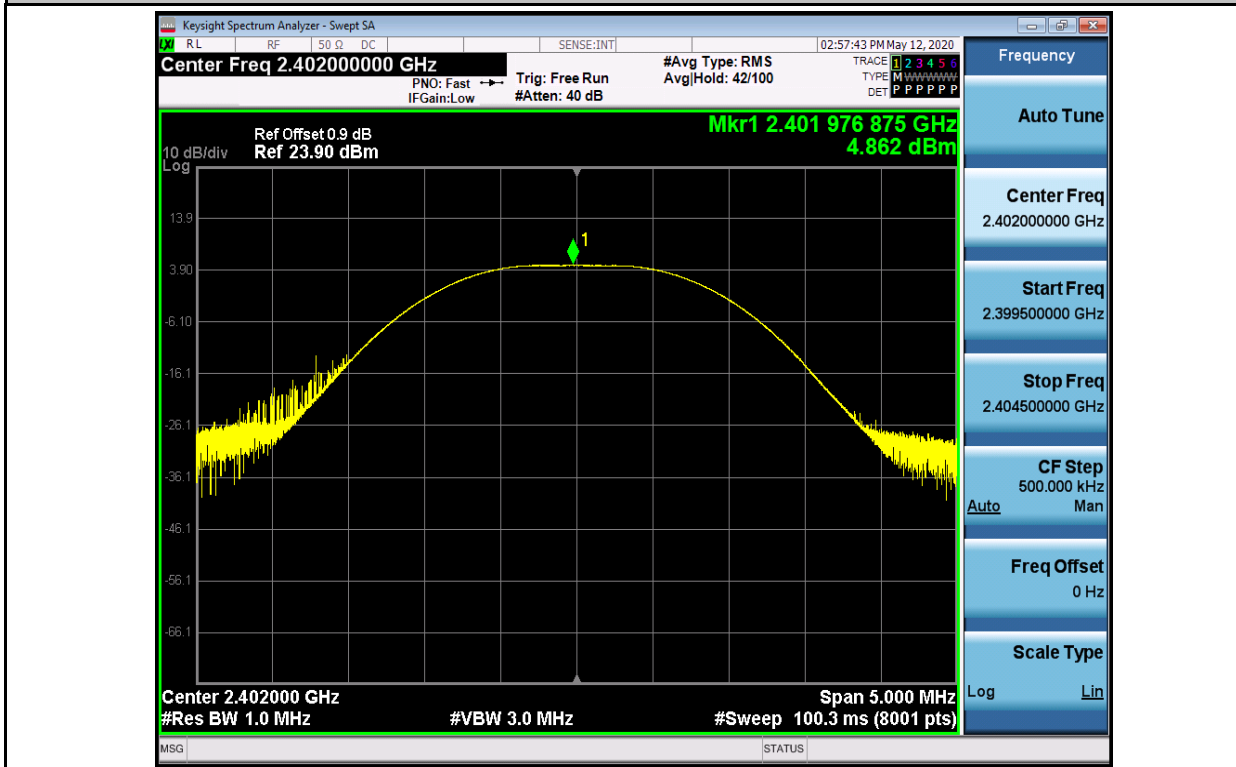
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2. Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	4.862	30	PASS
BLE	2442	Ant1	3.419	30	PASS
BLE	2480	Ant1	2.961	30	PASS

TEST PLOT

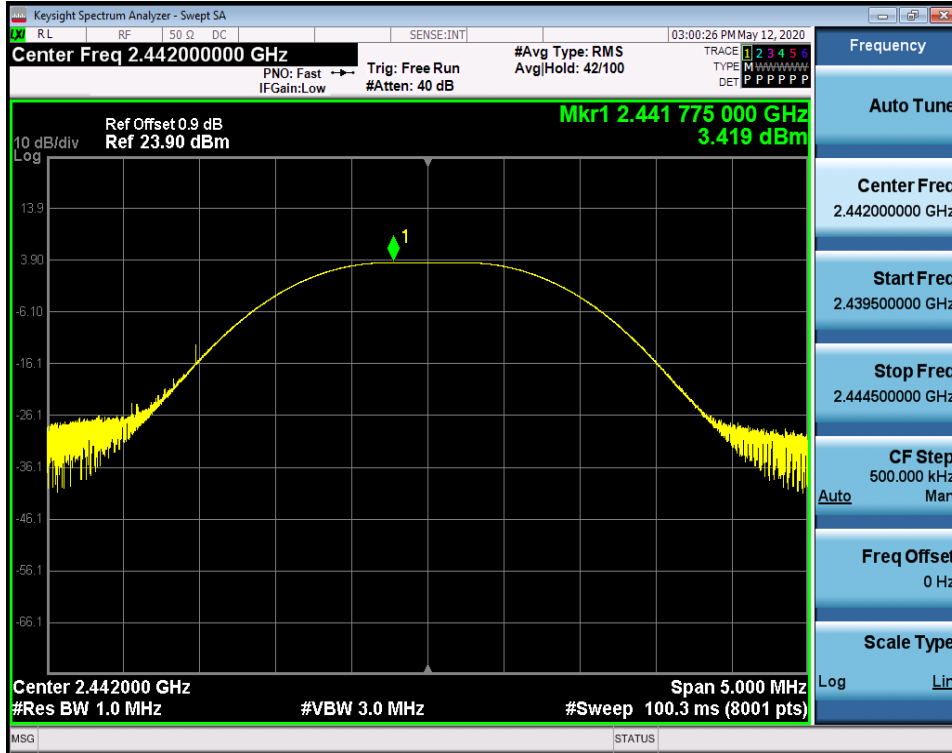
Maximum peak conducted output power_BLE_2402_Ant1



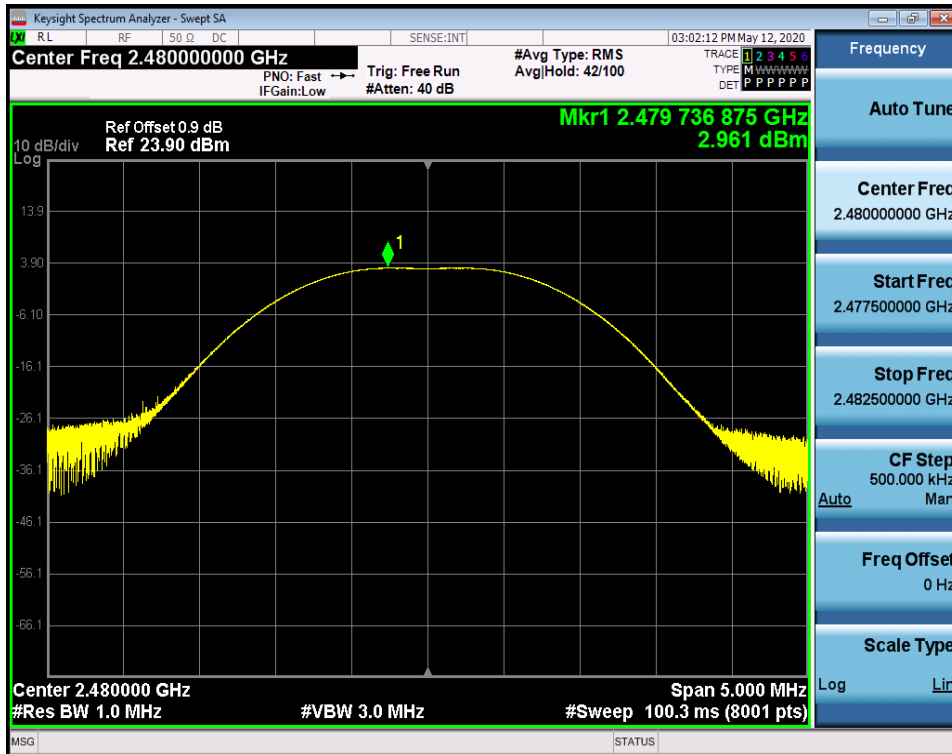
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Maximum peak conducted output power_BLE_2442_Ant1



Maximum peak conducted output power_BLE_2480_Ant1

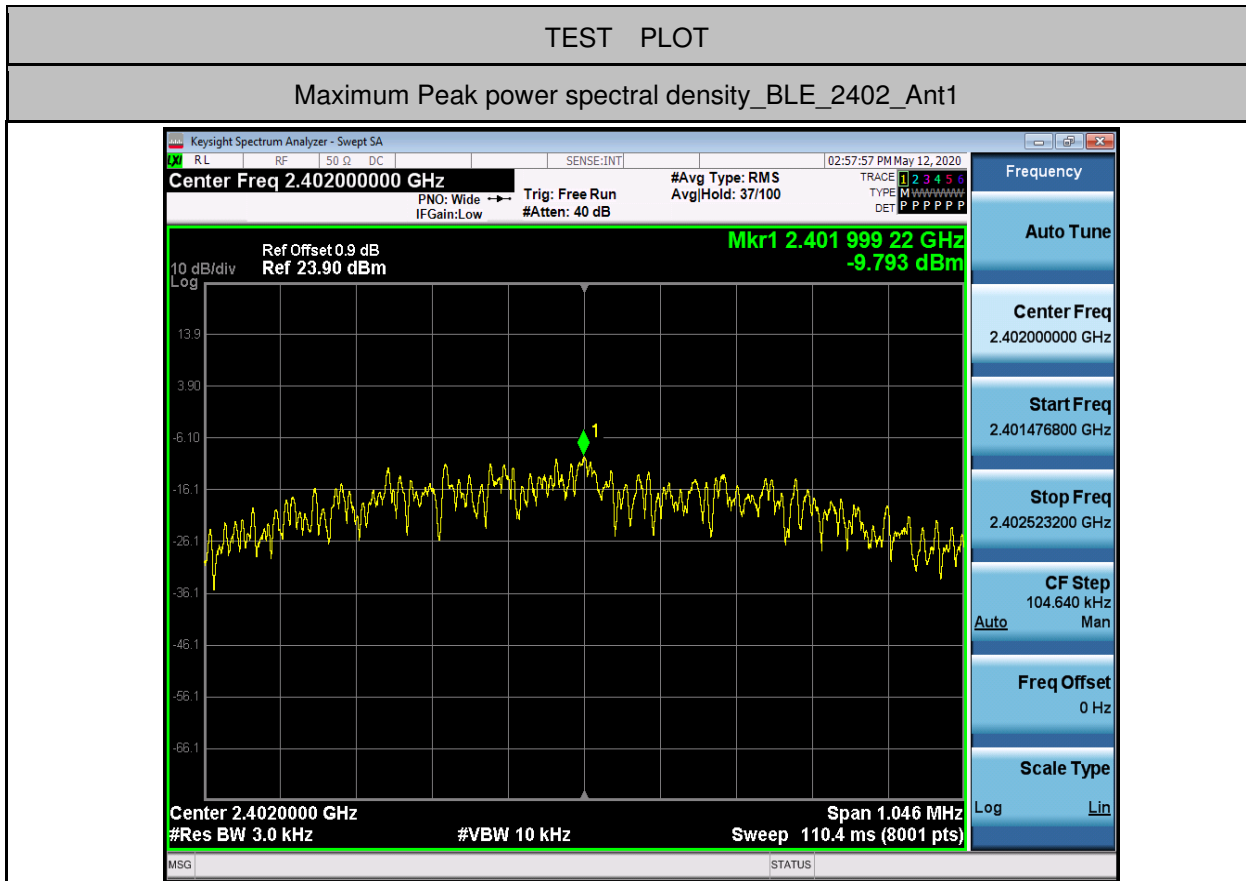


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3.Maximum Peak power spectral density

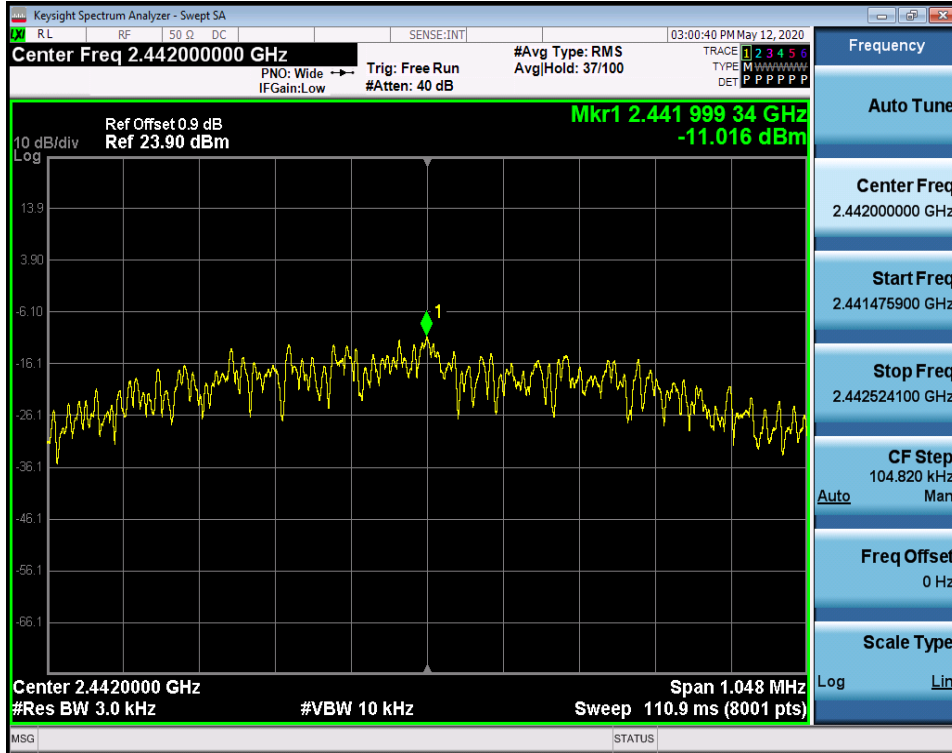
Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-9.793	8.00	PASS
BLE	2442	Ant1	-11.016	8.00	PASS
BLE	2480	Ant1	-11.757	8.00	PASS



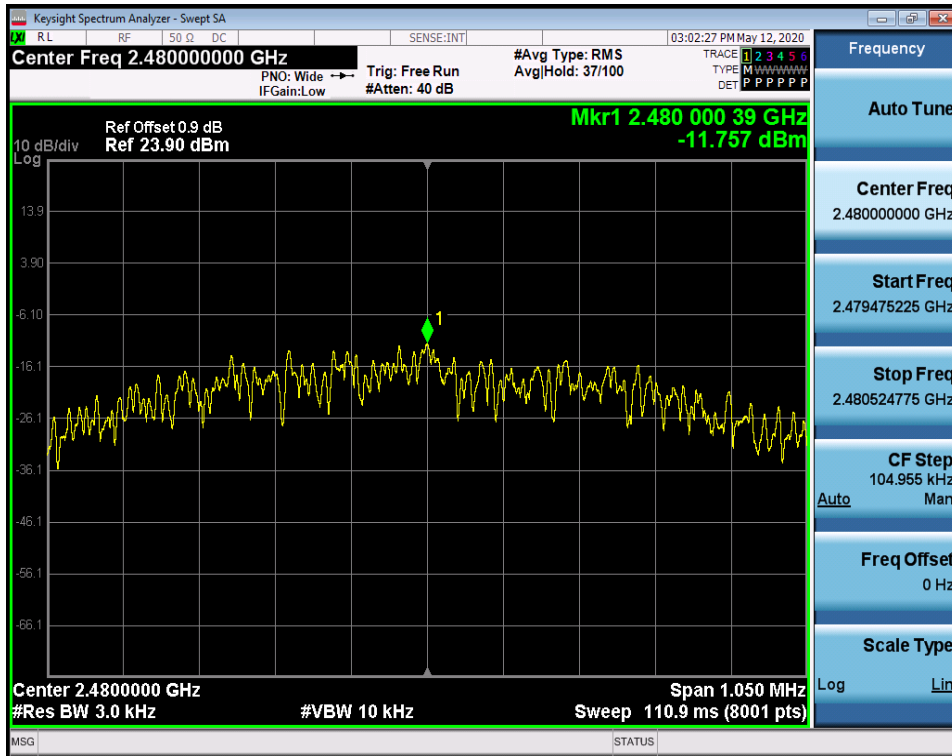
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Maximum Peak power spectral density_BLE_2442_Ant1



Maximum Peak power spectral density_BLE_2480_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	4.867	-49.022	-15.13	PASS
BLE	2480	Ant1	2.802	-48.423	-17.2	PASS

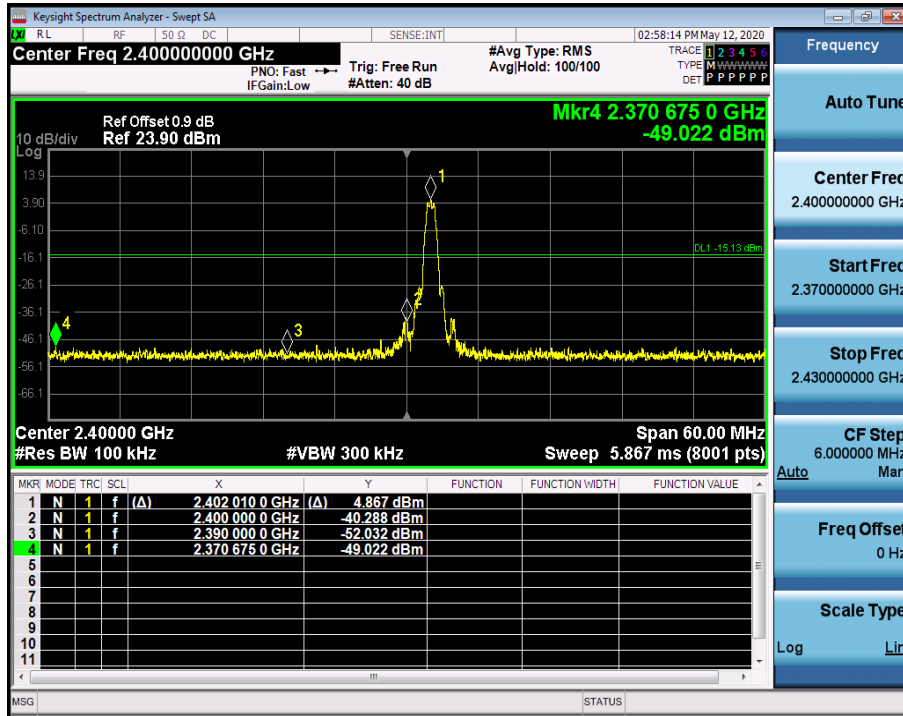


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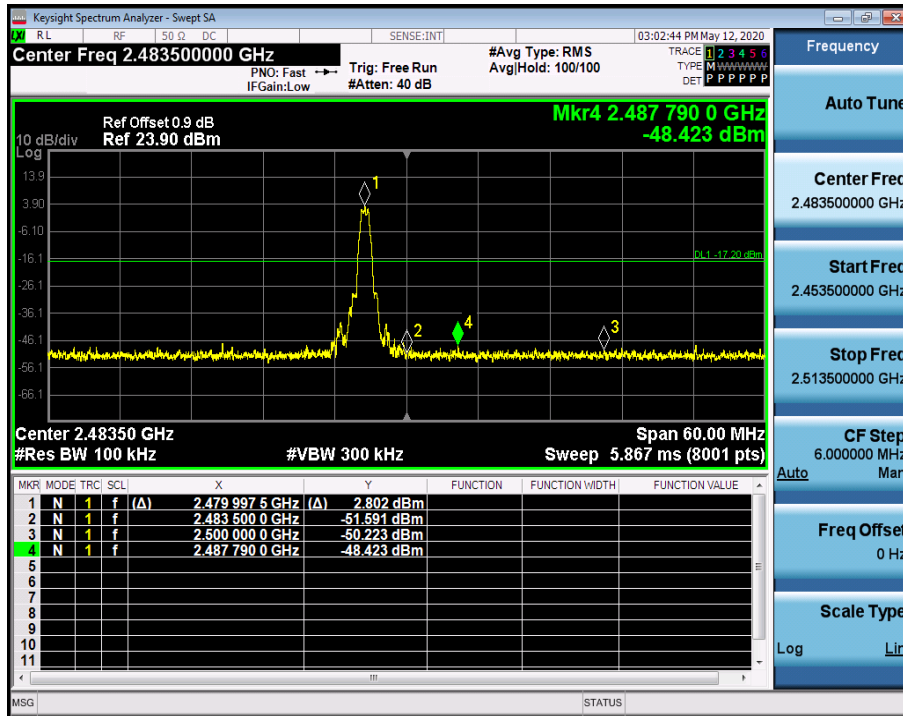
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TEST PLOT

Band-edge for RF Conducted Emissions_BLE_2402_Ant1



Band-edge for RF Conducted Emissions_BLE_2480_Ant1



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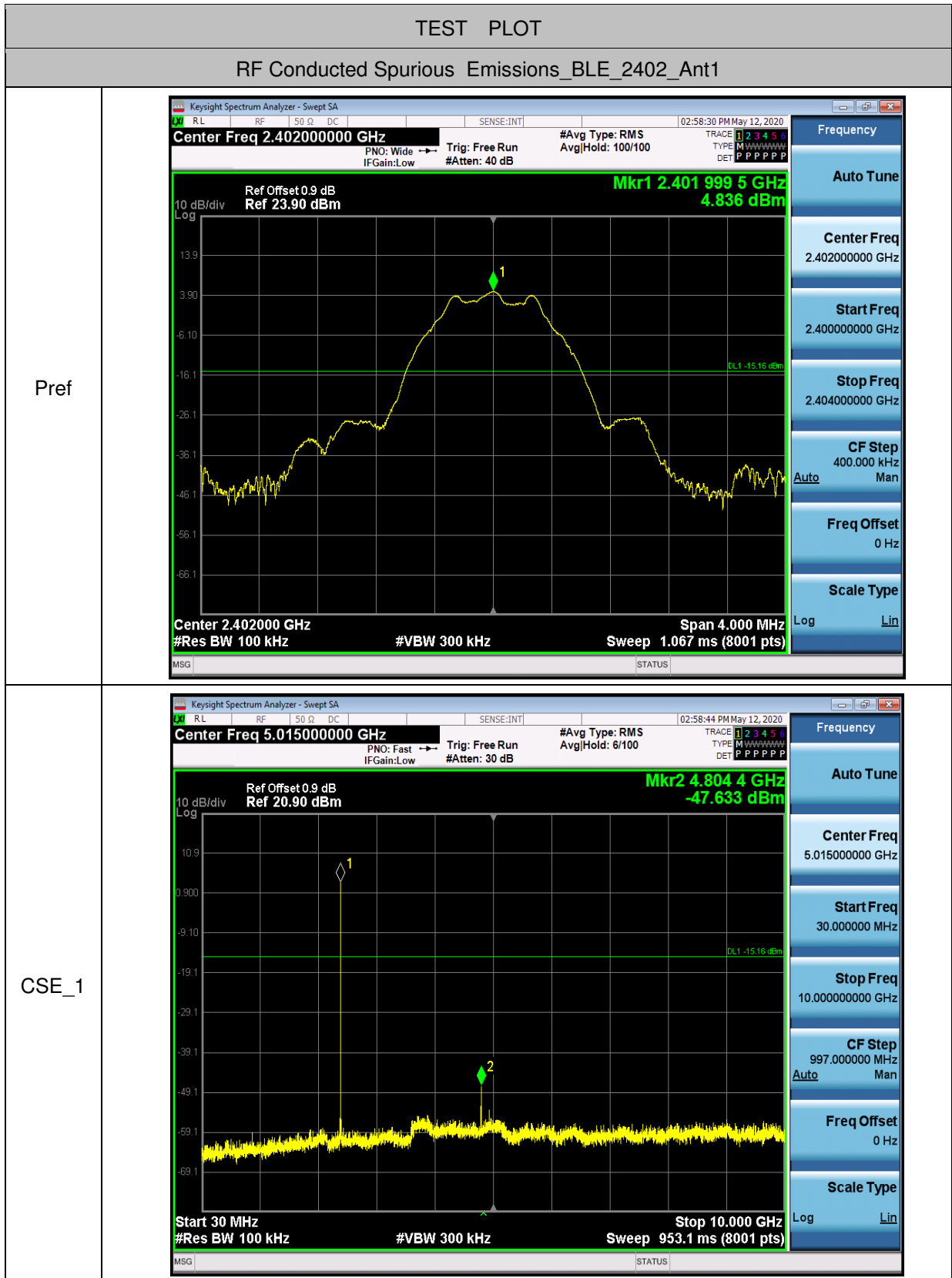
5.RF Conducted Spurious Emissions

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	4.836	-47.633	<-15.164	PASS
BLE	2402	Ant1	10000	26000	100	300	4.836	-51.704	<-15.164	PASS
BLE	2442	Ant1	30	10000	100	300	3.372	-54.920	<-16.628	PASS
BLE	2442	Ant1	10000	26000	100	300	3.372	-51.269	<-16.628	PASS
BLE	2480	Ant1	30	10000	100	300	2.758	-53.868	<-17.242	PASS
BLE	2480	Ant1	10000	26000	100	300	2.758	-51.704	<-17.242	PASS



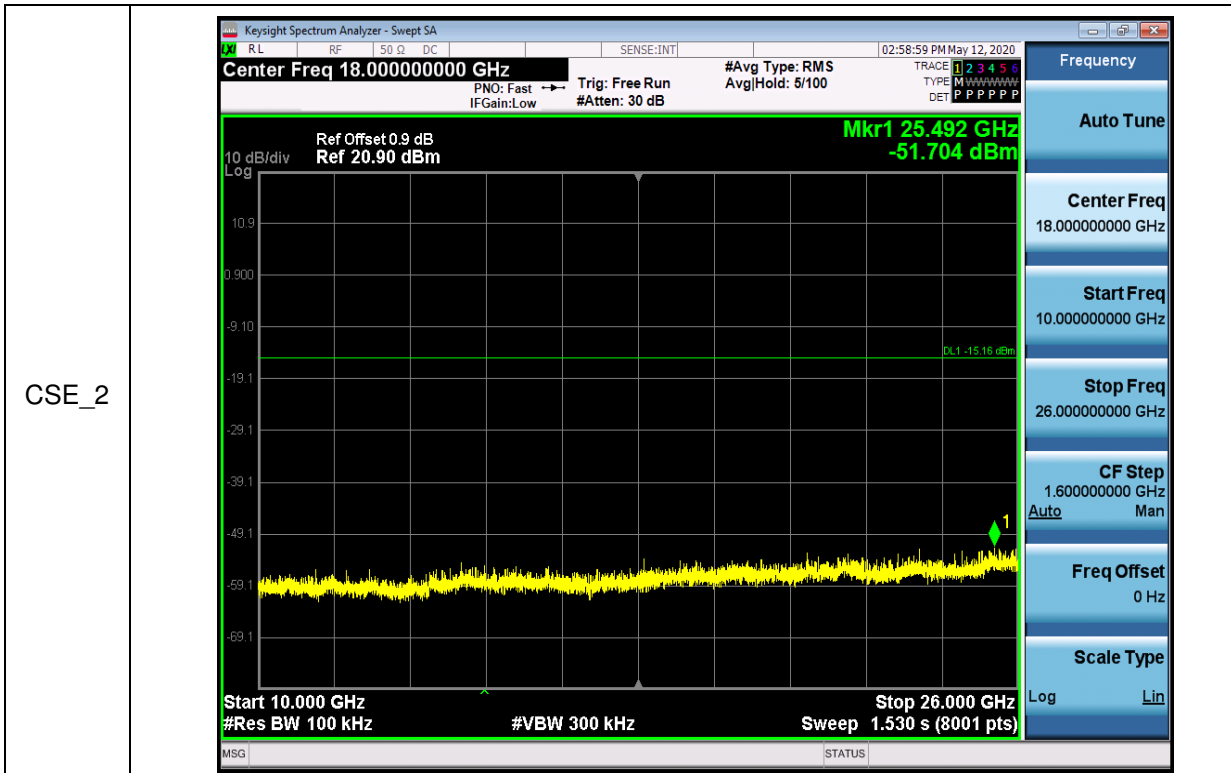
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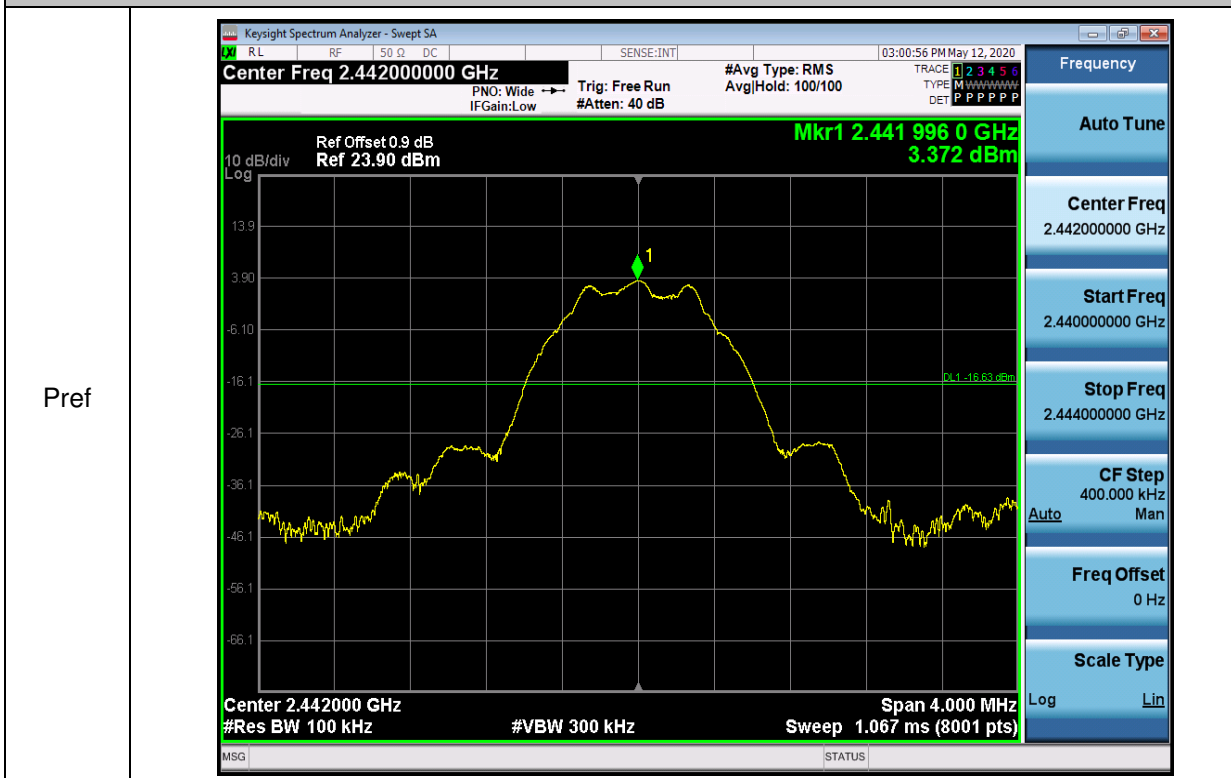


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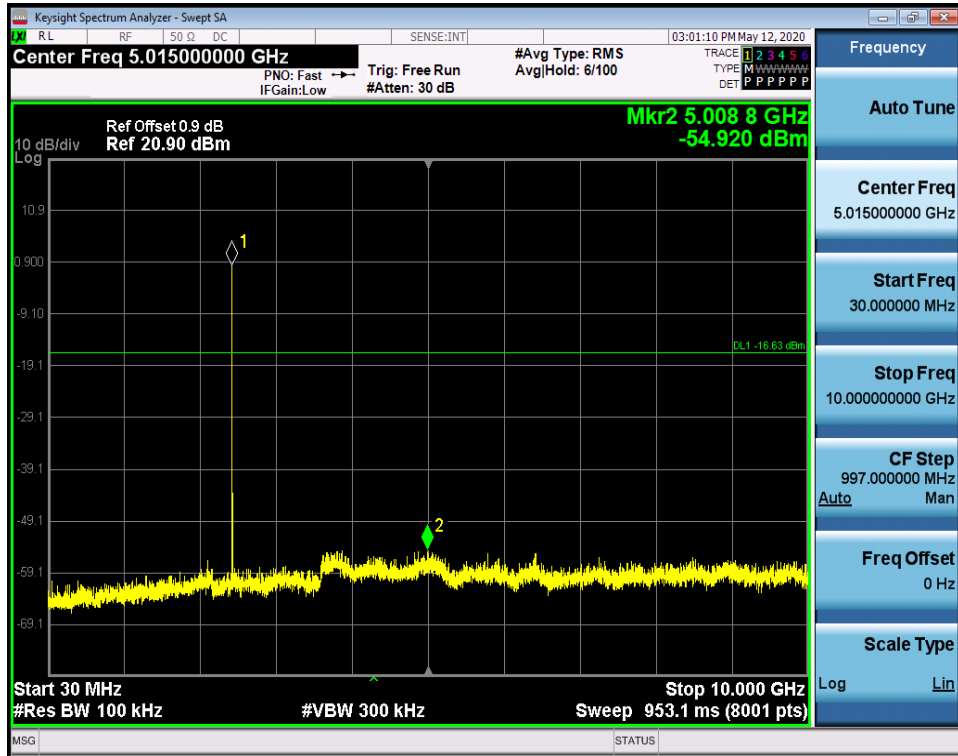
RF Conducted Spurious Emissions_BLE_2442_Ant1



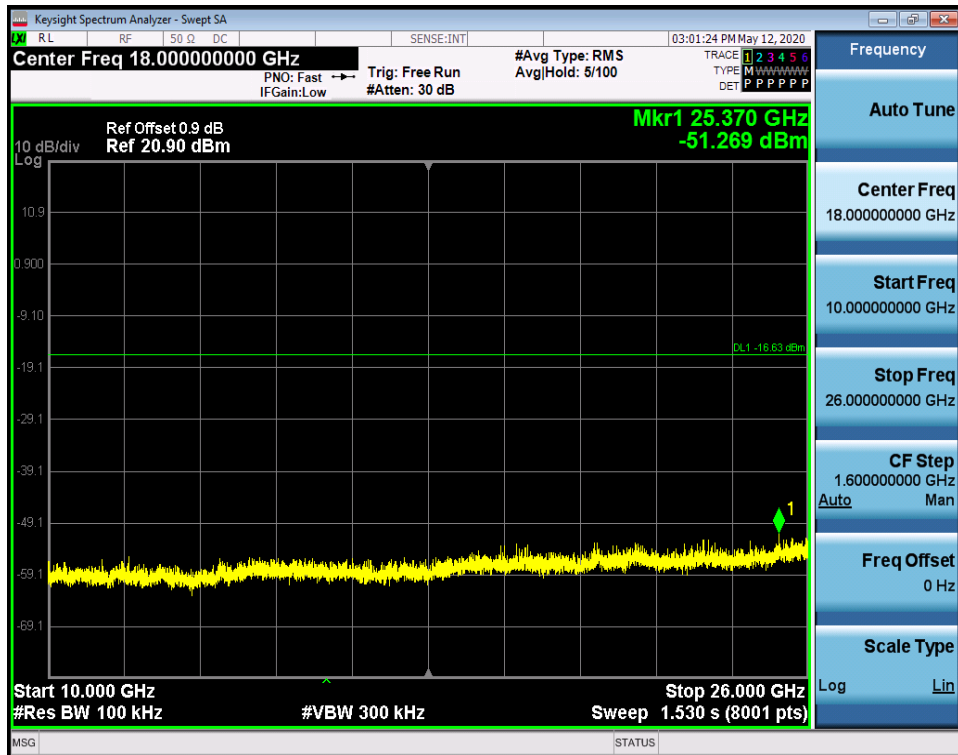
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CSE_1



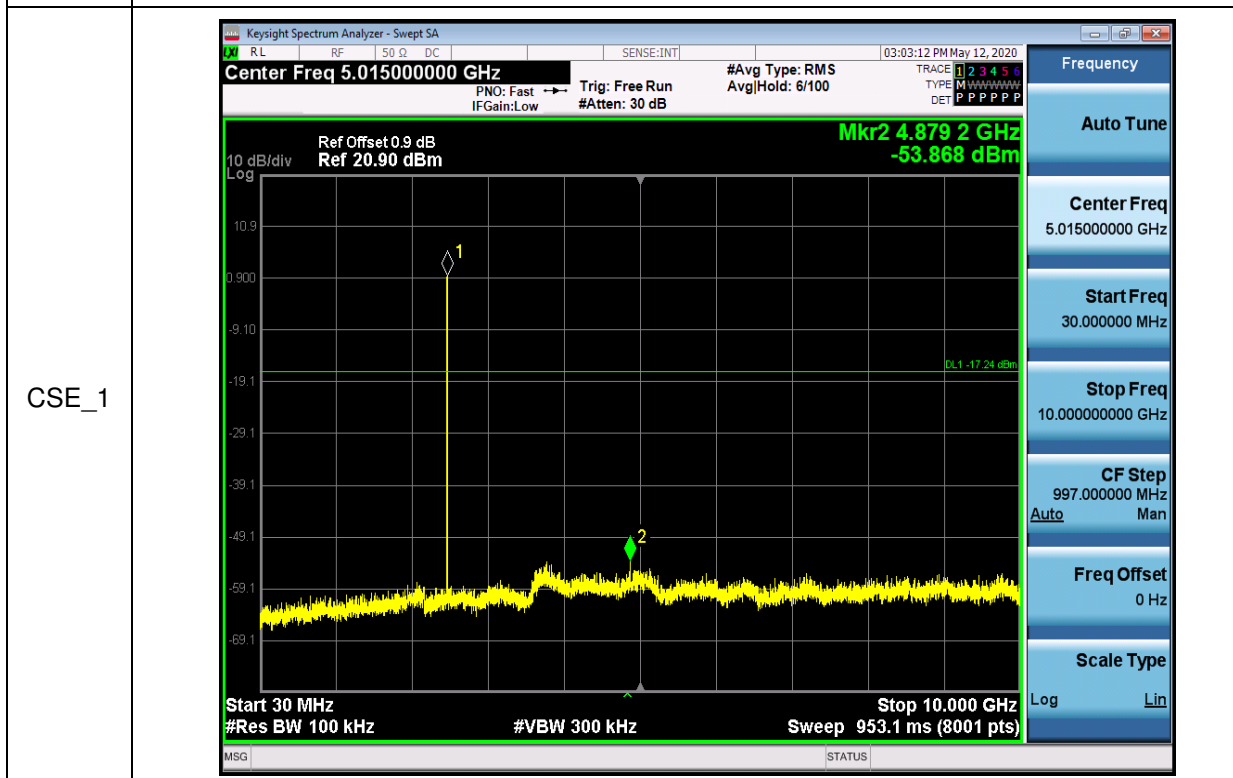
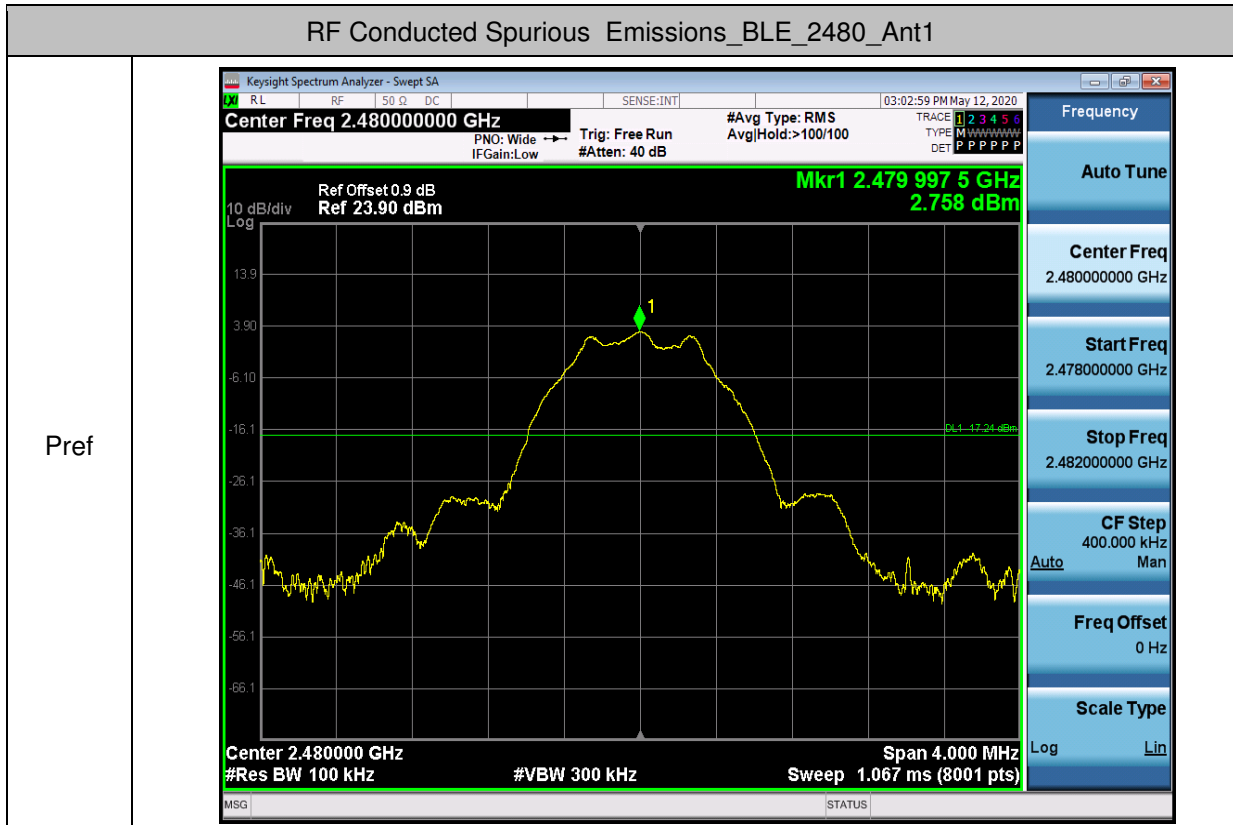
CSE_2



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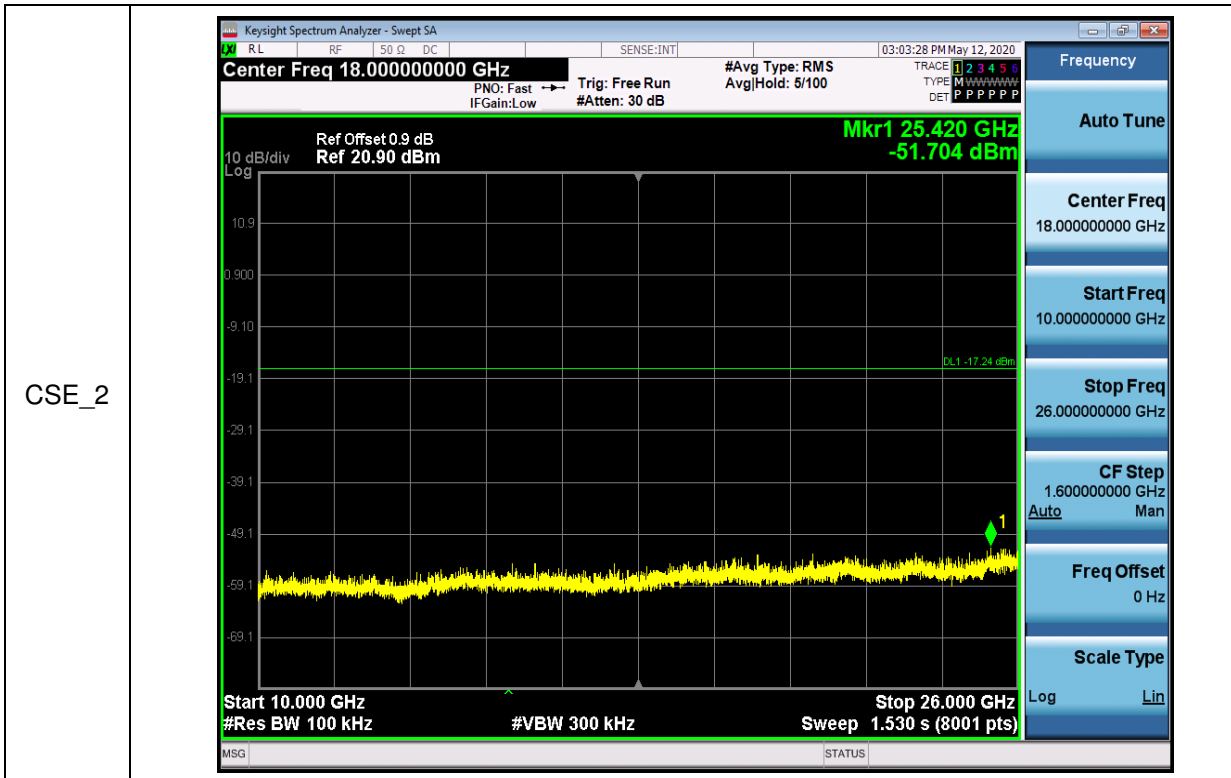
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RF Conducted Spurious Emissions_BLE_2480_Ant1



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