



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

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Report No.: GZEM191001665003
Page: 1 of 76
FCC ID: 2AT6N-B20

TEST REPORT

Application No.: GZEM1910016650CR
Applicant: AUSOUNDS INTELLIGENCE, LLC
Address of Applicant: 929 108TH AVE NE STE 1200, BELLEVUE, WA, 98004, UNITED STATES OF AMERICA
Manufacturer: AUSOUNDS INTELLIGENCE, LLC
Address of Manufacturer: 929 108TH AVE NE STE 1200, BELLEVUE, WA, 98004, UNITED STATES OF AMERICA
Factory: Risuntek Inc
Address of Factory: JiuWei Industrial Zone, Qishi Town, Dongguan City Guangdong, China
Equipment Under Test (EUT):
EUT Name: AU-stream
Model No.: AU-stream
Trade Mark: Ausounds
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2019-10-28
Date of Test: 2019-11-06 to 2019-12-02
Date of Issue: 2019-12-13

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

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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Guangzhou Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-12-13		Original

Authorized for issue by:			
Tested By		2019-11-06 to 2019-12-02 Date	
Checked By		2019-12-13 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:

According to the declaration from the applicant, the electrical circuit design is identical for left and right earbud except for MIC function (the left has MIC function and the right doesn't), but the PCB layout is difference.

Therefore, all tests were performed on left and right earbuds and recorded in this report.

** : The EUT passed Radiated Spurious Emissions test after modification.



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4 General Information

4.1 Details of E.U.T.

Power Supply: DC 5.0V for charging box charging.
DC 3.7V for earbuds normal working.

Test Voltage: DC 5.0V

Cable: N/A

Antenna Gain: 0dBi

Antenna Type: PCB Antenna

Channel Spacing: 2MHz

Modulation Type: GFSK

Number of Channels: 40

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 dual mode

This report is for BLE mode (only LE 1M).

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800

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	$\pm 0.4^\circ\text{C}$
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:

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 Guangzhou, China 510663

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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	2019-11-18	2020-11-17
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	2019-11-02	2021-11-01
MI CABLE	SGS	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	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	2019-11-02	2021-11-01
MI CABLE	SGS	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	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	2019-11-02	2021-11-01
MI CABLE	SGS	0.8M	EMC2137	2019-11-02	2021-11-01

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	2019-05-29	2020-05-28
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2019-05-29	2020-05-28
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
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	2019-11-02	2021-11-01
MI CABLE	SGS	0.8M	EMC2137	2019-11-02	2021-11-01



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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
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	2019-11-02	2021-11-01
MI CABLE	SGS	0.8M	EMC2137	2019-11-02	2021-11-01

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 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01
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	2019-11-18	2020-11-17
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	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
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



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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 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01
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	2019-11-18	2020-11-17
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	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
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.



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

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

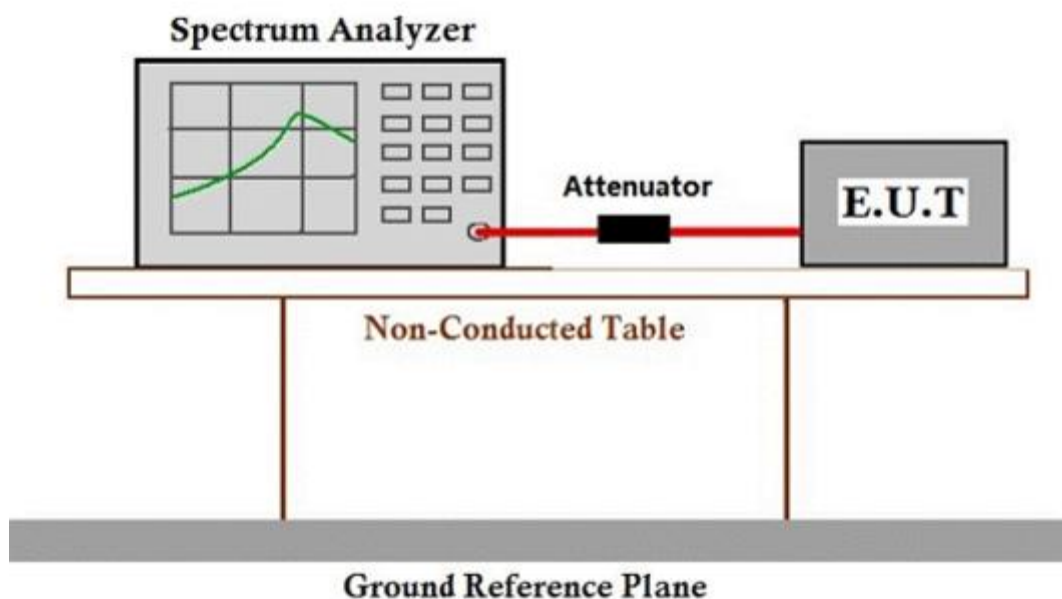
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 47.9 % 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

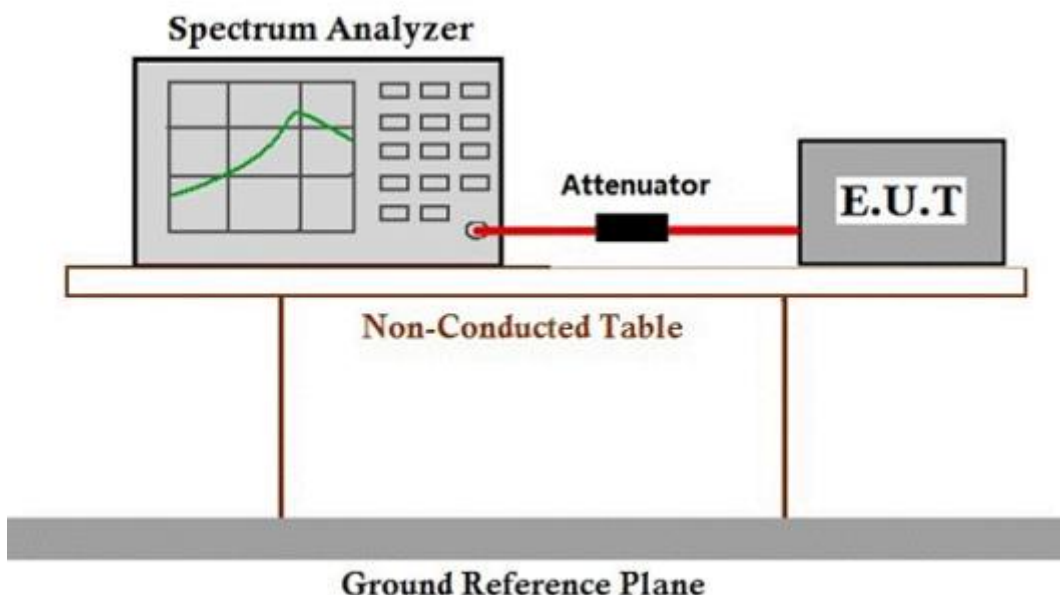
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 47.9 % 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

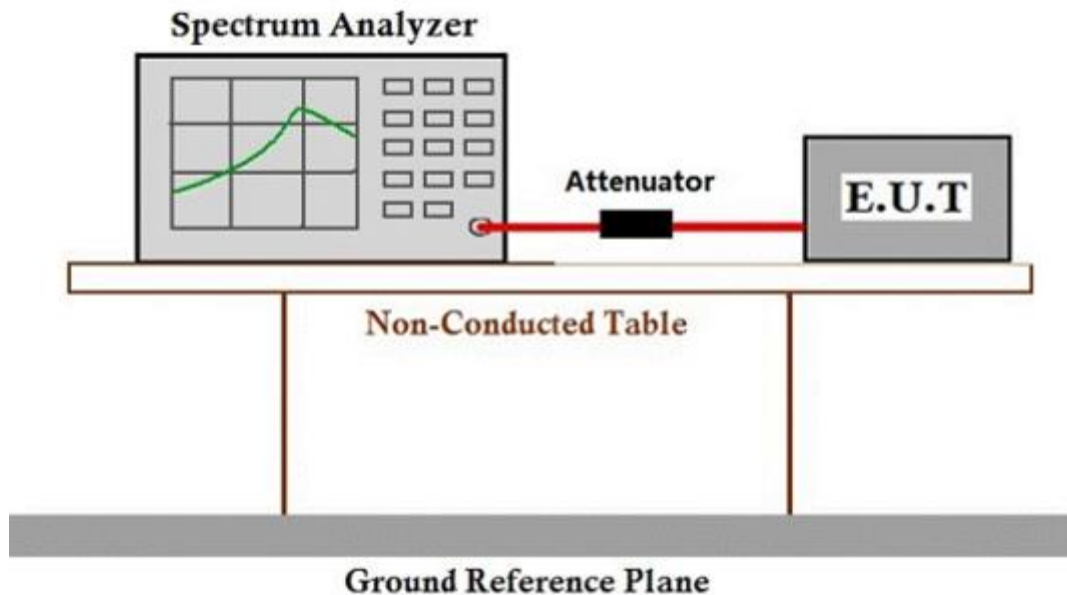
7.3 Power Spectrum Density

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: 25.4 °C Humidity: 47.9 % 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

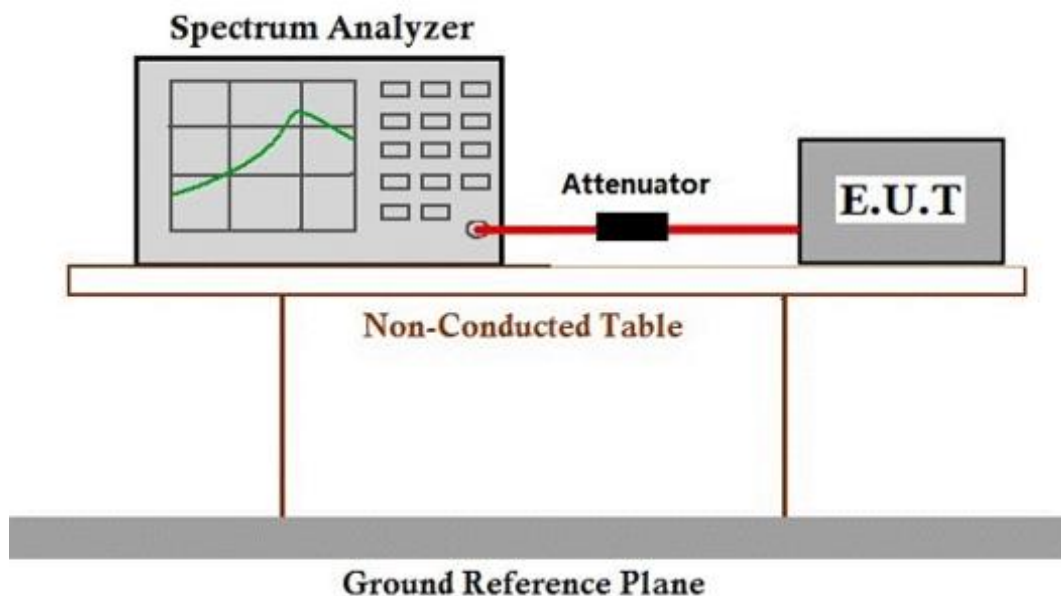
7.4 Conducted Band Edges Measurement

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))

7.4.1 E.U.T. Operation

Operating Environment:				
Temperature:	25.4 °C	Humidity:	47.9 % 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))

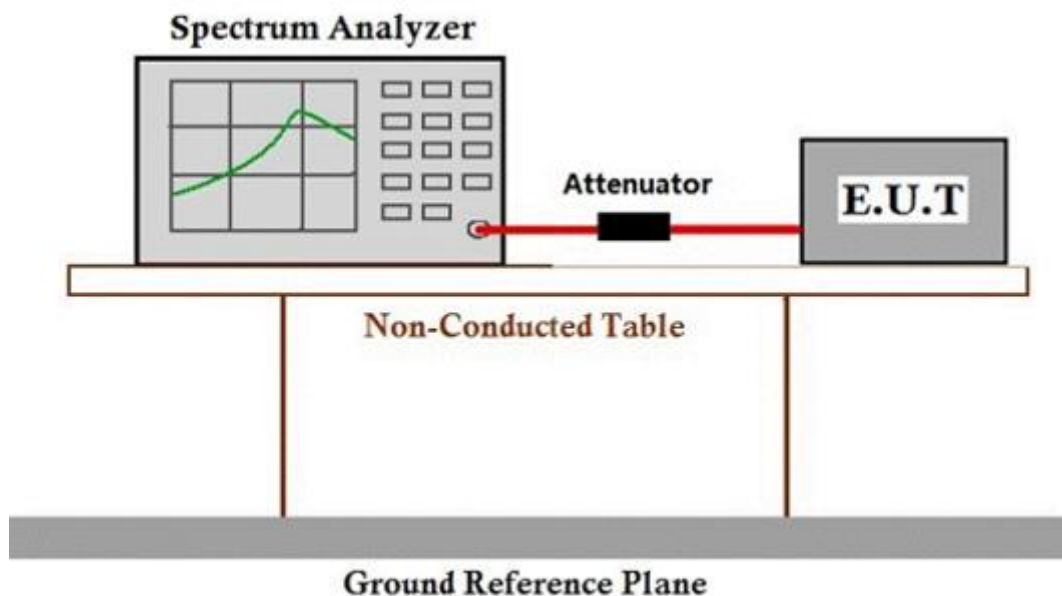
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 47.9 % 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



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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.

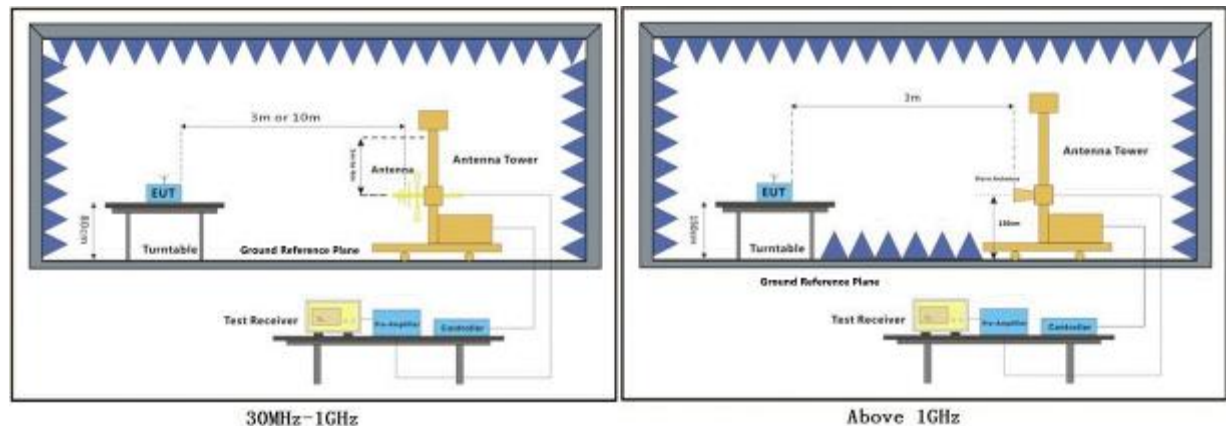
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 55.2 % 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

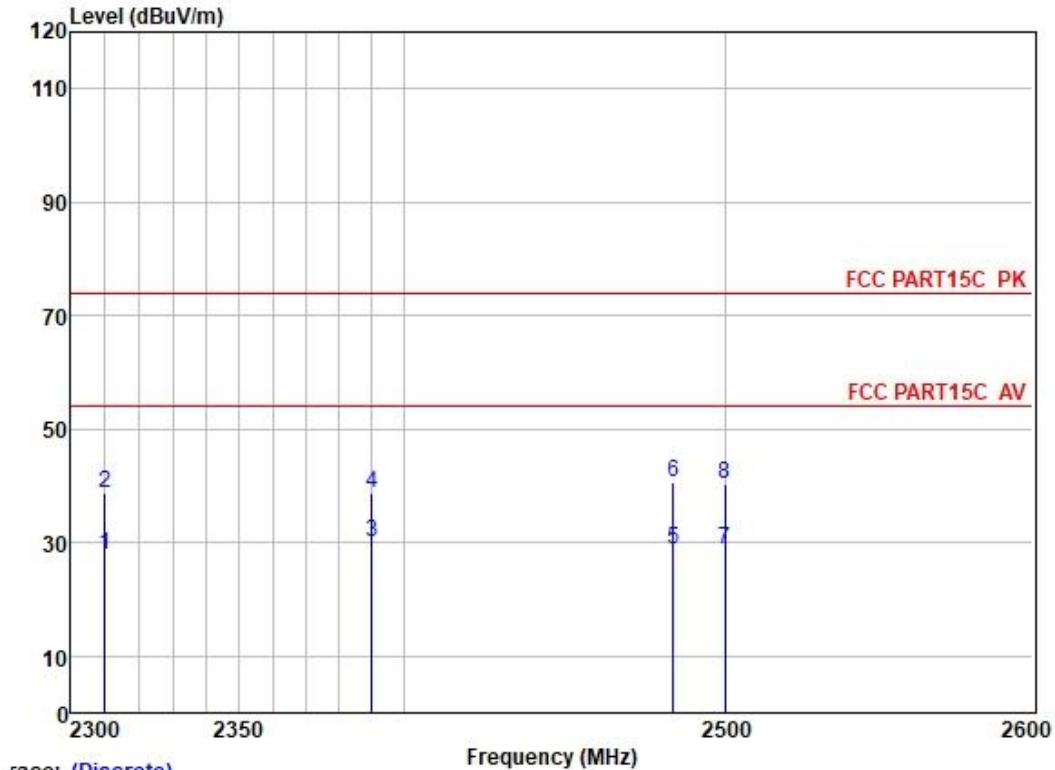


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For left earbud

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



Trace: (Discrete)

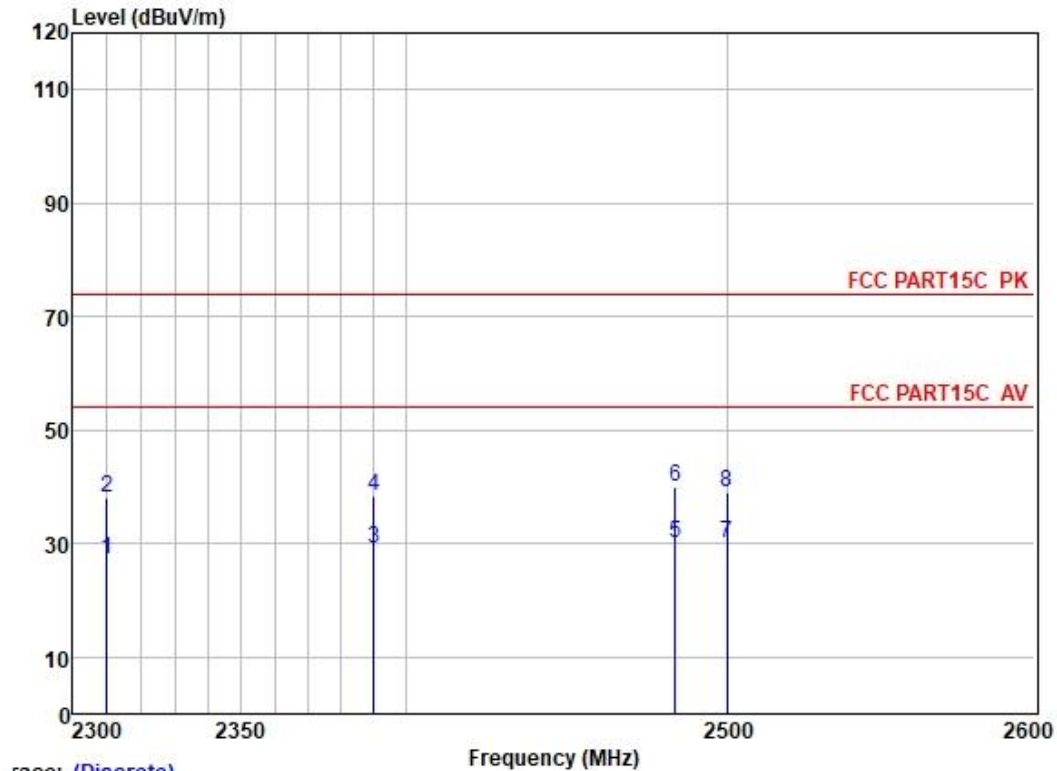
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.15	26.25	5.03	37.44	27.99	54.00	-26.01	HORIZONTAL Average
2	2310.000	45.01	26.25	5.03	37.44	38.85	74.00	-35.15	HORIZONTAL Peak
3	2390.000	36.03	26.43	4.88	37.42	29.92	54.00	-24.08	HORIZONTAL Average
4	2390.000	44.94	26.43	4.88	37.42	38.83	74.00	-35.17	HORIZONTAL Peak
5	2483.500	34.38	26.58	5.23	37.40	28.79	54.00	-25.21	HORIZONTAL Average
6	2483.500	46.09	26.58	5.23	37.40	40.50	74.00	-33.50	HORIZONTAL Peak
7	2500.000	34.63	26.60	4.95	37.39	28.79	54.00	-25.21	HORIZONTAL Average
8	2500.000	46.32	26.60	4.95	37.39	40.48	74.00	-33.52	HORIZONTAL Peak



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



Trace: (Discrete)

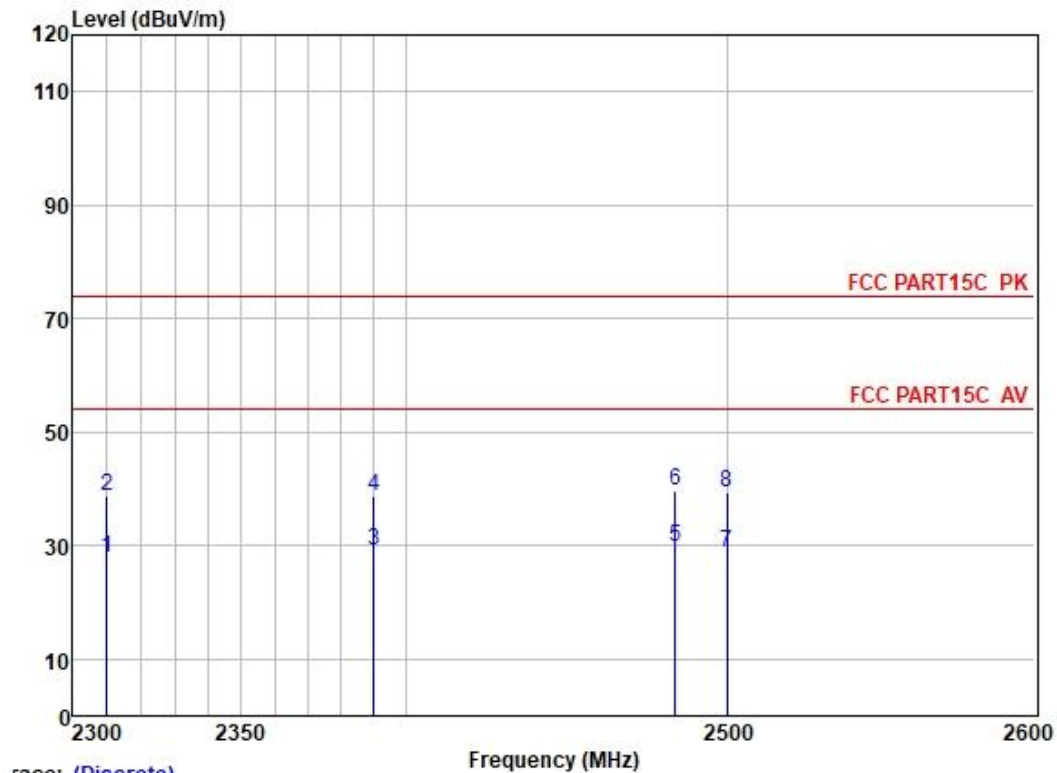
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	33.51	26.25	5.03	37.44	27.35	54.00	-26.65	VERTICAL
2	2310.000	44.34	26.25	5.03	37.44	38.18	74.00	-35.82	VERTICAL
3	2390.000	35.17	26.43	4.88	37.42	29.06	54.00	-24.94	VERTICAL
4	2390.000	44.65	26.43	4.88	37.42	38.54	74.00	-35.46	VERTICAL
5	2483.500	35.66	26.58	5.23	37.40	30.07	54.00	-23.93	VERTICAL
6	2483.500	45.68	26.58	5.23	37.40	40.09	74.00	-33.91	VERTICAL
7	2500.000	35.78	26.60	4.95	37.39	29.94	54.00	-24.06	VERTICAL
8	2500.000	44.81	26.60	4.95	37.39	38.97	74.00	-35.03	VERTICAL



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



Trace: (Discrete)

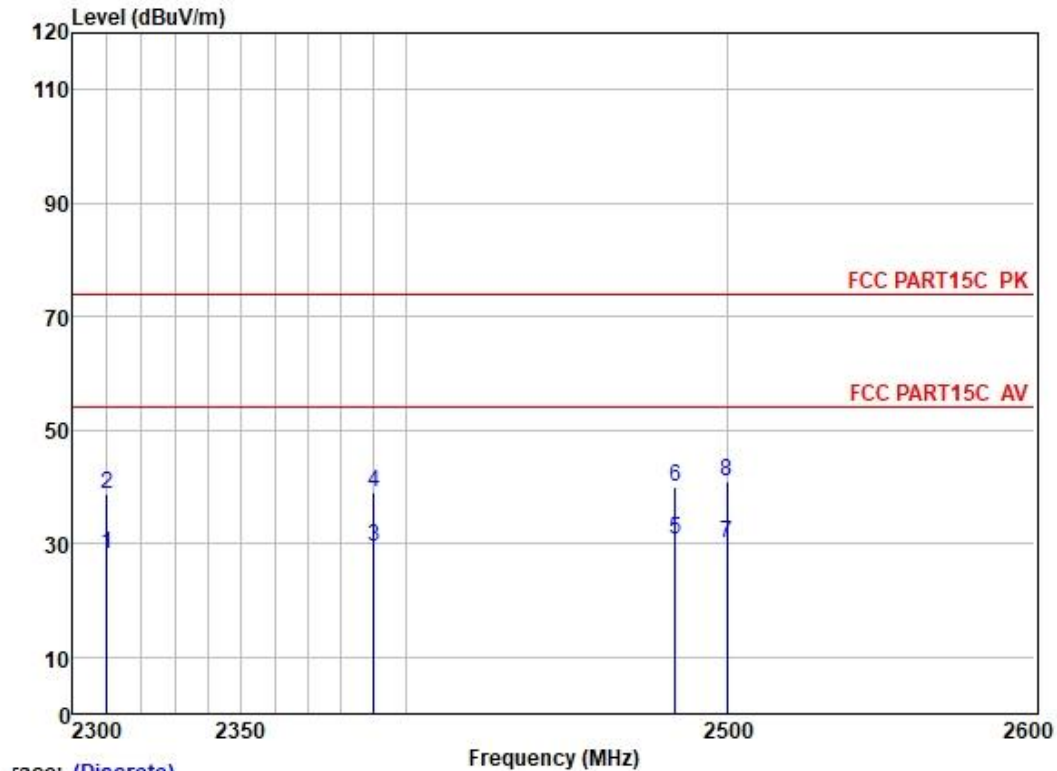
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	34.05	26.25	5.03	37.44	27.89	54.00	-26.11	HORIZONTAL Average
2	2310.000	44.90	26.25	5.03	37.44	38.74	74.00	-35.26	HORIZONTAL Peak
3	2390.000	35.13	26.43	4.88	37.42	29.02	54.00	-24.98	HORIZONTAL Average
4	2390.000	44.69	26.43	4.88	37.42	38.58	74.00	-35.42	HORIZONTAL Peak
5	2483.500	35.25	26.58	5.23	37.40	29.66	54.00	-24.34	HORIZONTAL Average
6	2483.500	45.13	26.58	5.23	37.40	39.54	74.00	-34.46	HORIZONTAL Peak
7	2500.000	34.52	26.60	4.95	37.39	28.68	54.00	-25.32	HORIZONTAL Average
8	2500.000	45.15	26.60	4.95	37.39	39.31	74.00	-34.69	HORIZONTAL Peak



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



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	34.24	26.25	5.03	37.44	28.08	54.00	-25.92	VERTICAL
2	2310.000	45.03	26.25	5.03	37.44	38.87	74.00	-35.13	VERTICAL
3	2390.000	35.47	26.43	4.88	37.42	29.36	54.00	-24.64	VERTICAL
4	2390.000	45.29	26.43	4.88	37.42	39.18	74.00	-34.82	VERTICAL
5	2483.500	36.43	26.58	5.23	37.40	30.84	54.00	-23.16	VERTICAL
6	2483.500	45.50	26.58	5.23	37.40	39.91	74.00	-34.09	VERTICAL
7	2500.000	35.79	26.60	4.95	37.39	29.95	54.00	-24.05	VERTICAL
8	2500.000	46.75	26.60	4.95	37.39	40.91	74.00	-33.09	VERTICAL



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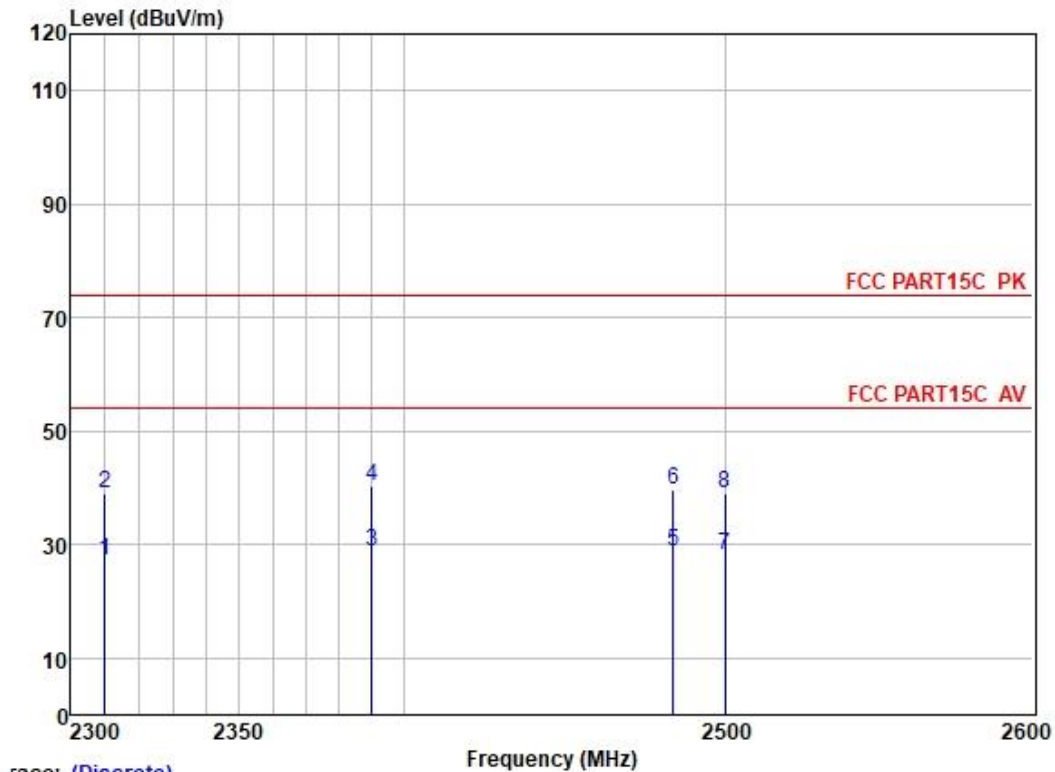
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Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:Low;



Trace: (Discrete)

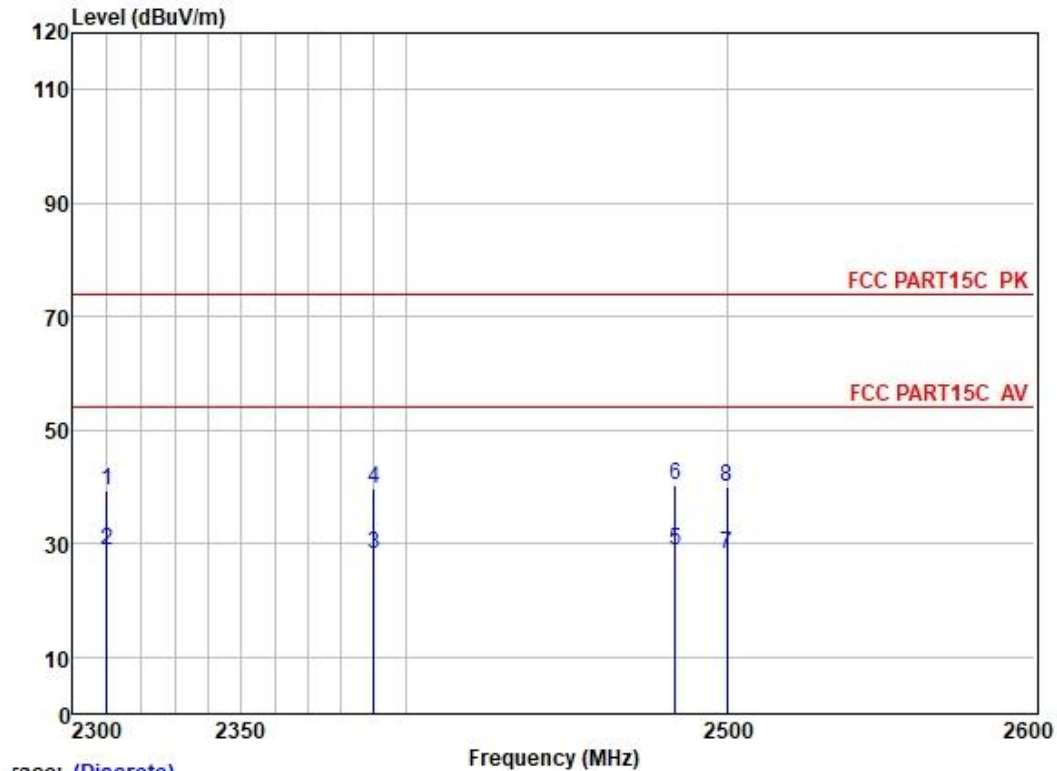
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.52	26.25	5.03	37.44	27.36	54.00	-26.64	HORIZONTAL Average
2	2310.000	45.10	26.25	5.03	37.44	38.94	74.00	-35.06	HORIZONTAL Peak
3	2390.000	35.04	26.43	4.88	37.42	28.93	54.00	-25.07	HORIZONTAL Average
4	2390.000	46.37	26.43	4.88	37.42	40.26	74.00	-33.74	HORIZONTAL Peak
5	2483.500	34.47	26.58	5.23	37.40	28.88	54.00	-25.12	HORIZONTAL Average
6	2483.500	45.20	26.58	5.23	37.40	39.61	74.00	-34.39	HORIZONTAL Peak
7	2500.000	34.04	26.60	4.95	37.39	28.20	54.00	-25.80	HORIZONTAL Average
8	2500.000	44.95	26.60	4.95	37.39	39.11	74.00	-34.89	HORIZONTAL Peak



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



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	45.45	26.25	5.03	37.44	39.29	74.00	-34.71	VERTICAL	Peak
2	2310.000	35.03	26.25	5.03	37.44	28.87	74.00	-45.13	VERTICAL	Peak
3	2390.000	34.35	26.43	4.88	37.42	28.24	54.00	-25.76	VERTICAL	Average
4	2390.000	45.80	26.43	4.88	37.42	39.69	74.00	-34.31	VERTICAL	Peak
5	2483.500	34.23	26.58	5.23	37.40	28.64	54.00	-25.36	VERTICAL	Average
6	2483.500	45.85	26.58	5.23	37.40	40.26	74.00	-33.74	VERTICAL	Peak
7	2500.000	33.85	26.60	4.95	37.39	28.01	54.00	-25.99	VERTICAL	Average
8	2500.000	45.96	26.60	4.95	37.39	40.12	74.00	-33.88	VERTICAL	Peak



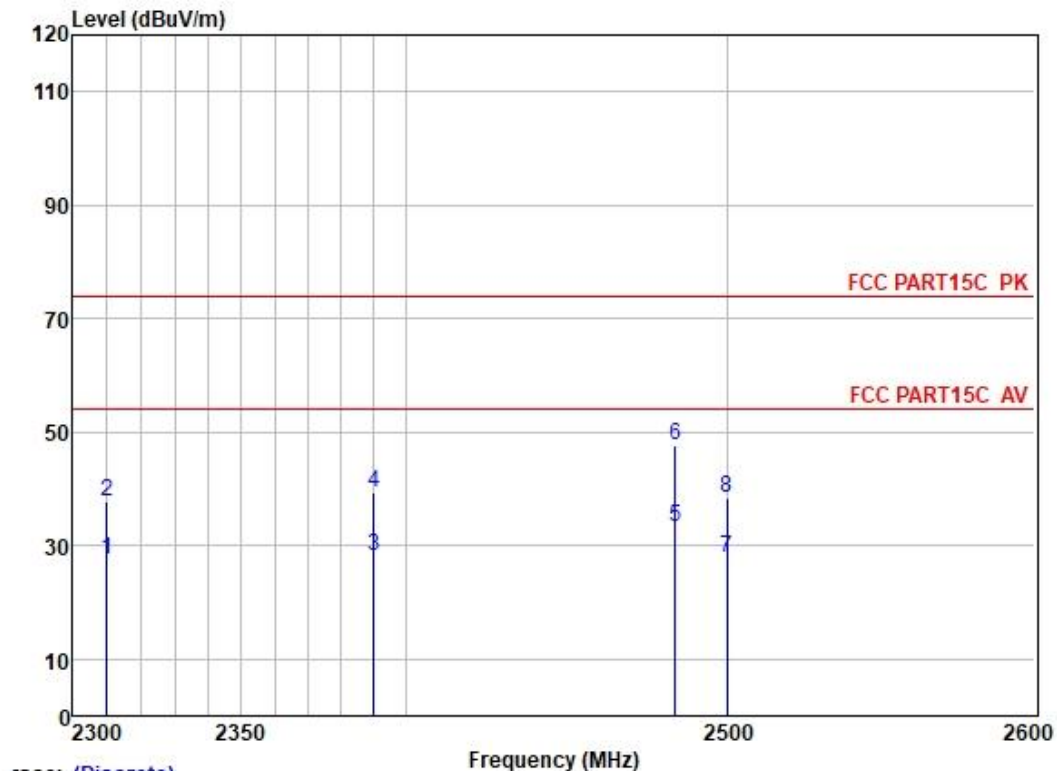
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Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:High;



Trace: (Discrete)

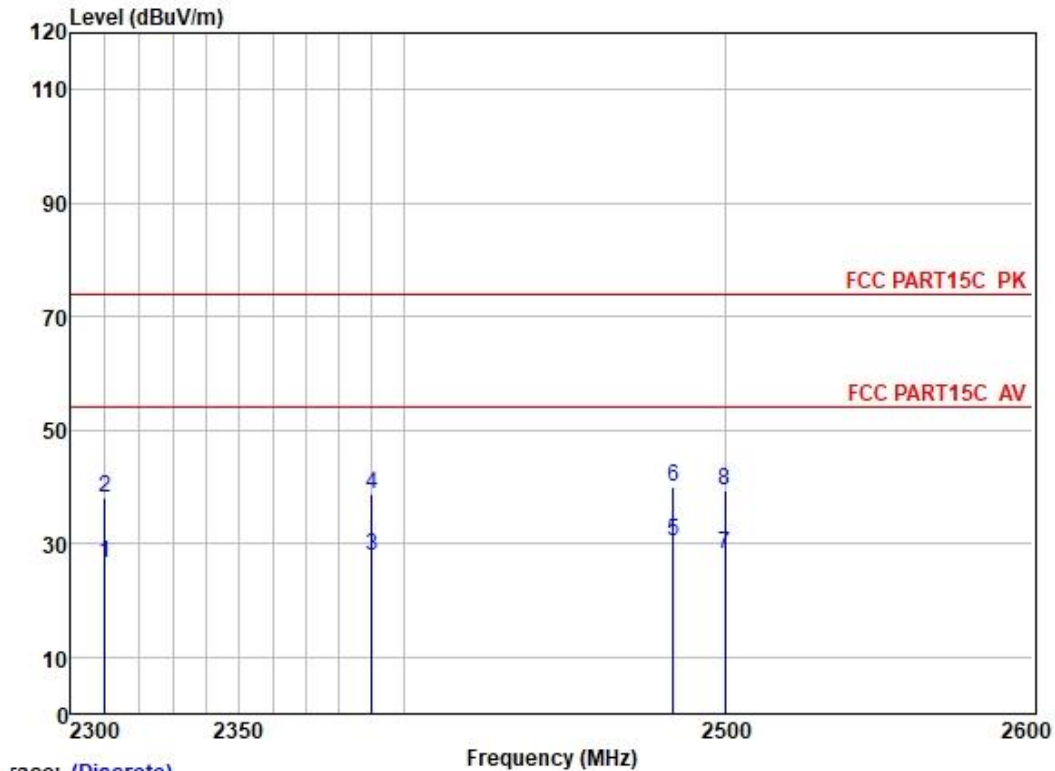
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	33.73	26.25	5.03	37.44	27.57	54.00	-26.43	HORIZONTAL Average
2	2310.000	43.93	26.25	5.03	37.44	37.77	74.00	-36.23	HORIZONTAL Peak
3	2390.000	34.32	26.43	4.88	37.42	28.21	54.00	-25.79	HORIZONTAL Average
4	2390.000	45.57	26.43	4.88	37.42	39.46	74.00	-34.54	HORIZONTAL Peak
5	2483.500	38.72	26.58	5.23	37.40	33.13	54.00	-20.87	HORIZONTAL Average
6	2483.500	53.19	26.58	5.23	37.40	47.60	74.00	-26.40	HORIZONTAL Peak
7	2500.000	33.69	26.60	4.95	37.39	27.85	54.00	-26.15	HORIZONTAL Average
8	2500.000	44.37	26.60	4.95	37.39	38.53	74.00	-35.47	HORIZONTAL Peak



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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	32.83	26.25	5.03	37.44	26.67	54.00	-27.33	VERTICAL
2	2310.000	44.17	26.25	5.03	37.44	38.01	74.00	-35.99	VERTICAL
3	2390.000	34.11	26.43	4.88	37.42	28.00	54.00	-26.00	VERTICAL
4	2390.000	44.97	26.43	4.88	37.42	38.86	74.00	-35.14	VERTICAL
5	2483.500	36.03	26.58	5.23	37.40	30.44	54.00	-23.56	VERTICAL
6	2483.500	45.43	26.58	5.23	37.40	39.84	74.00	-34.16	VERTICAL
7	2500.000	34.10	26.60	4.95	37.39	28.26	54.00	-25.74	VERTICAL
8	2500.000	45.22	26.60	4.95	37.39	39.38	74.00	-34.62	VERTICAL



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7.7 Radiated Spurious Emissions

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

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

Measurement Distance: 3m

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55.3 % RH Atmospheric Pressure: 1020 mbar

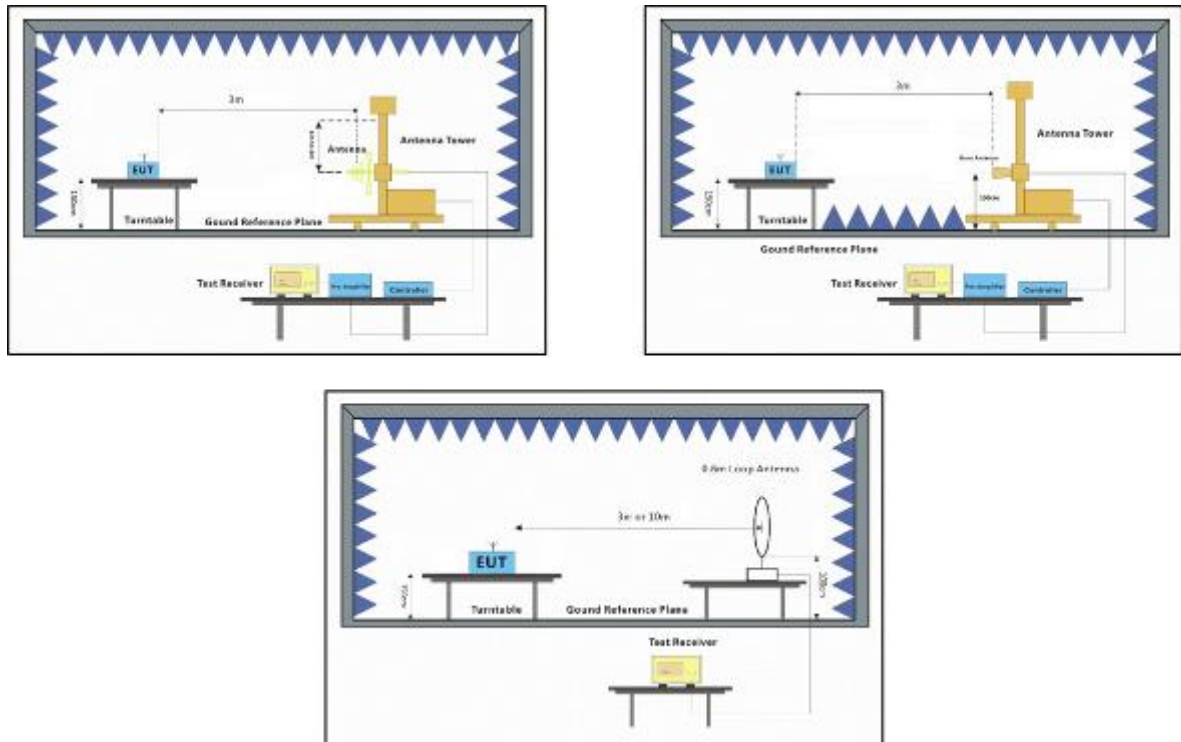
Test mode d: TX mode_Keep the EUT in continuously transmitting mode with GFSK. modulation



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7.7.2 Test Setup Diagram



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.

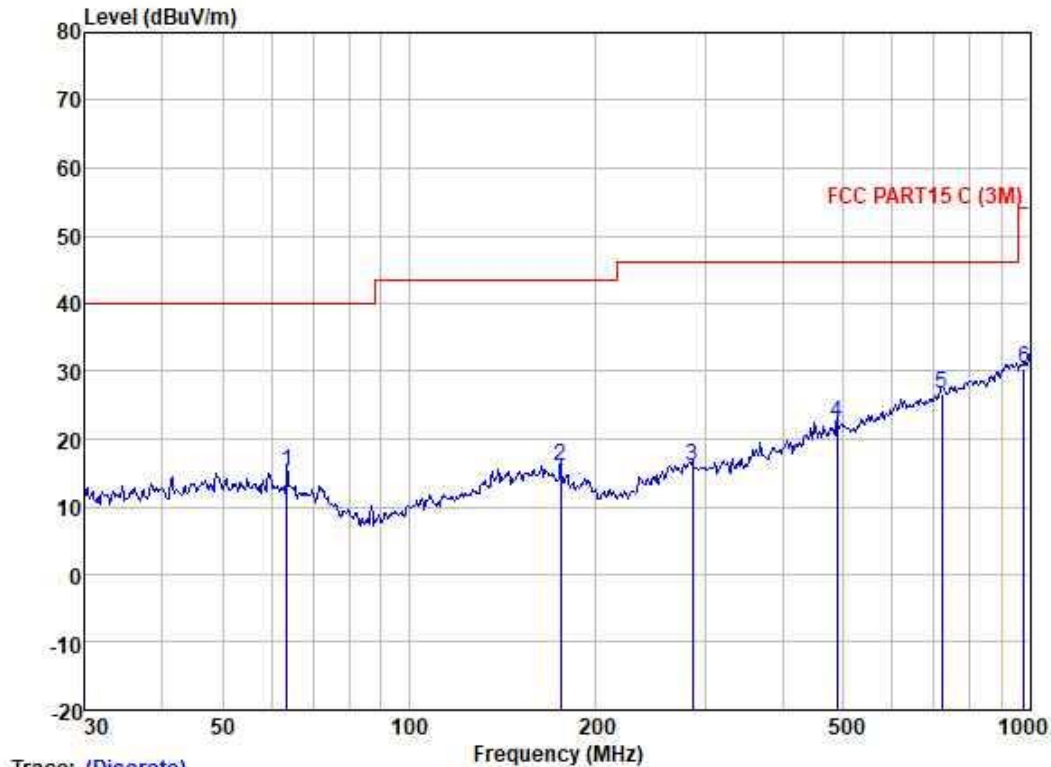
Remark:

- 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



For left earbud

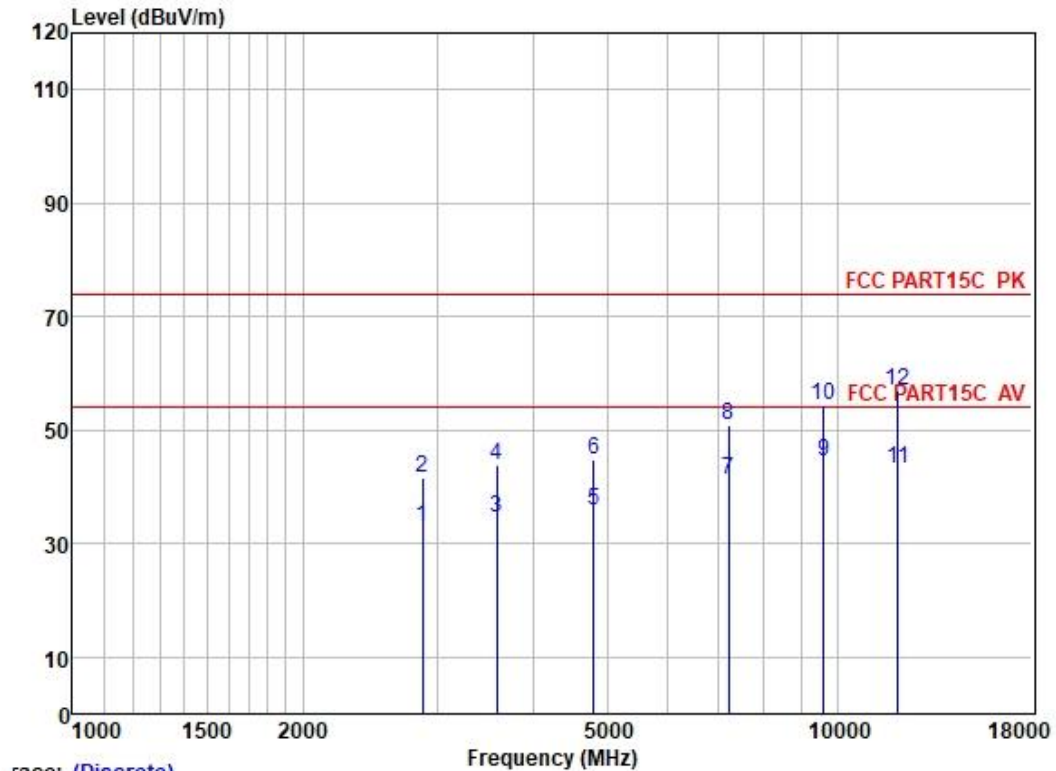
Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:Low;



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



Trace: (Discrete)

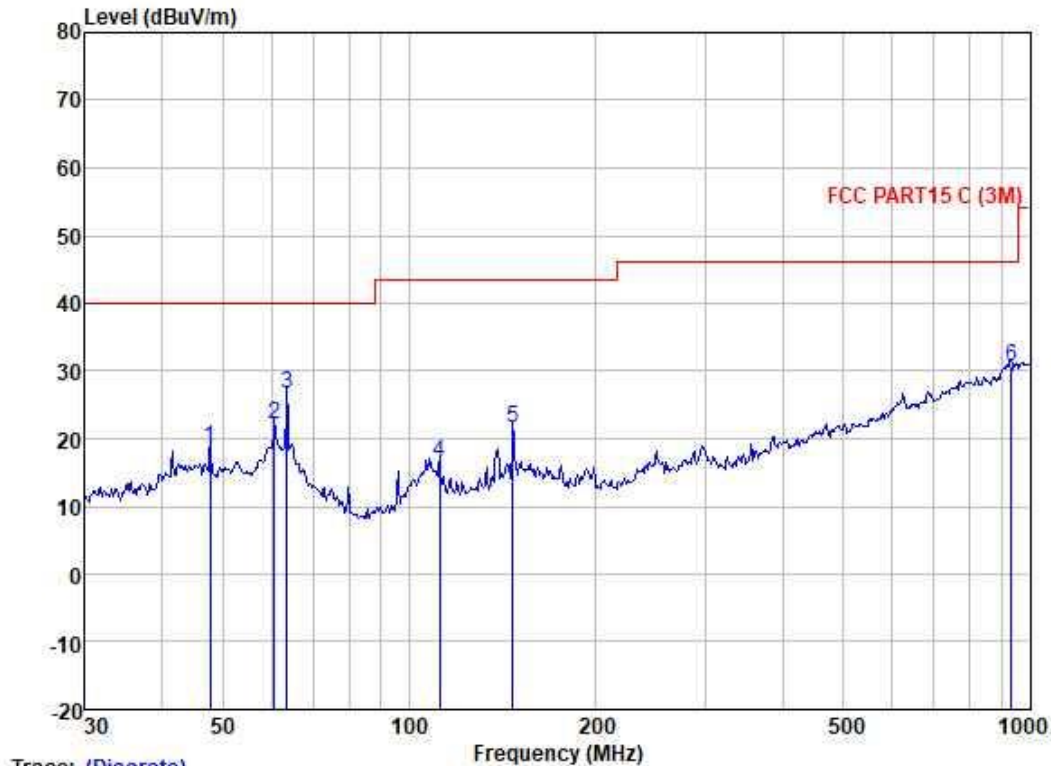
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2871.934	37.64	27.70	4.83	37.15	33.02	54.00	-20.98	HORIZONTAL Average
2	2871.934	46.17	27.70	4.83	37.15	41.55	74.00	-32.45	HORIZONTAL Peak
3	3587.818	36.95	28.11	6.36	36.94	34.48	54.00	-19.52	HORIZONTAL Average
4	3587.818	46.21	28.11	6.36	36.94	43.74	74.00	-30.26	HORIZONTAL Peak
5	4804.887	36.17	30.79	5.87	36.94	35.89	54.00	-18.11	HORIZONTAL Average
6	4804.887	45.18	30.79	5.87	36.94	44.90	74.00	-29.10	HORIZONTAL Peak
7	7206.857	35.42	35.45	7.34	36.93	41.28	54.00	-12.72	HORIZONTAL Average
8	7206.857	44.92	35.45	7.34	36.93	50.78	74.00	-23.22	HORIZONTAL Peak
9	9608.916	36.02	37.51	8.15	37.08	44.60	54.00	-9.40	HORIZONTAL Average
10	9608.916	45.77	37.51	8.15	37.08	54.35	74.00	-19.65	HORIZONTAL Peak
11	12010.520	30.25	39.50	10.67	37.20	43.22	54.00	-10.78	HORIZONTAL Average
12	12010.520	43.85	39.50	10.67	37.20	56.82	74.00	-17.18	HORIZONTAL Peak



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



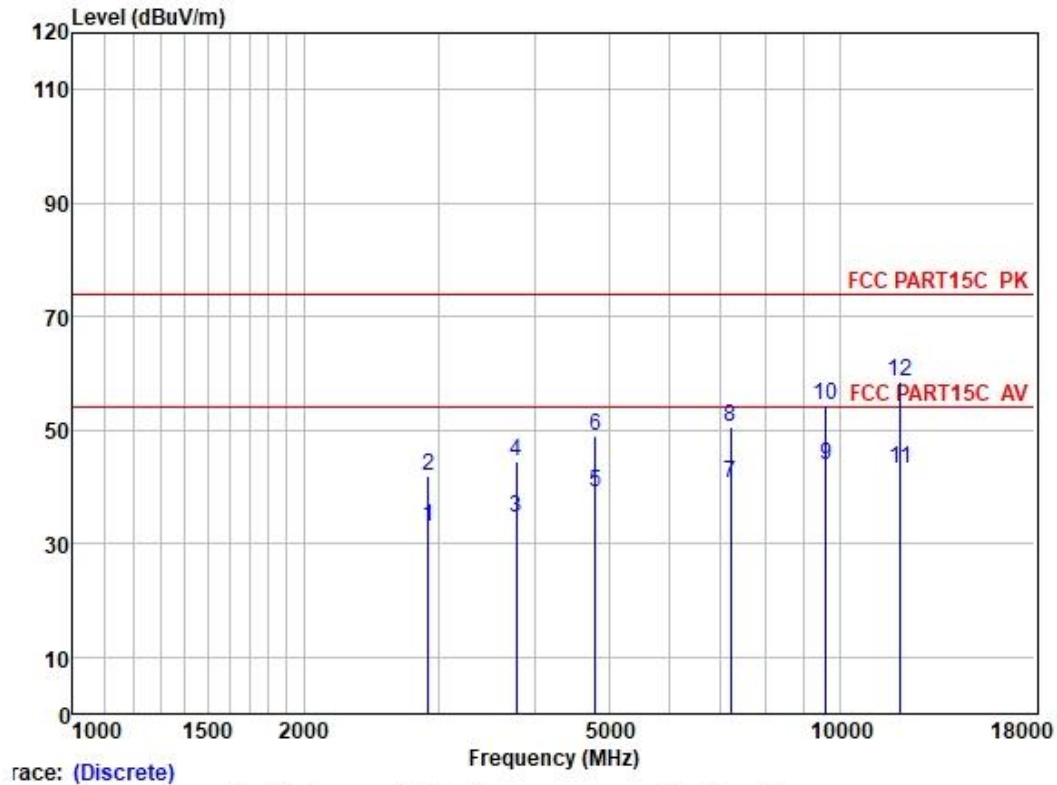
Trace: (Discrete)	Frequency (mhz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
	Level	Factor	Loss	Factor	Level	Line	Limit			
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m			dB
1	47.659	30.77	13.99	1.19	27.17	18.78	40.00	-21.22	VERTICAL	QP
2	60.492	34.54	13.33	1.32	27.16	22.03	40.00	-17.97	VERTICAL	QP
3	63.536	39.54	12.95	1.30	27.16	26.63	40.00	-13.37	VERTICAL	QP
4	111.738	31.32	10.48	1.72	27.08	16.44	43.50	-27.06	VERTICAL	QP
5	146.888	32.73	13.70	2.03	26.90	21.56	43.50	-21.94	VERTICAL	QP
6	932.272	28.05	23.80	6.82	27.88	30.79	46.00	-15.21	VERTICAL	QP



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



Trace: (Discrete)

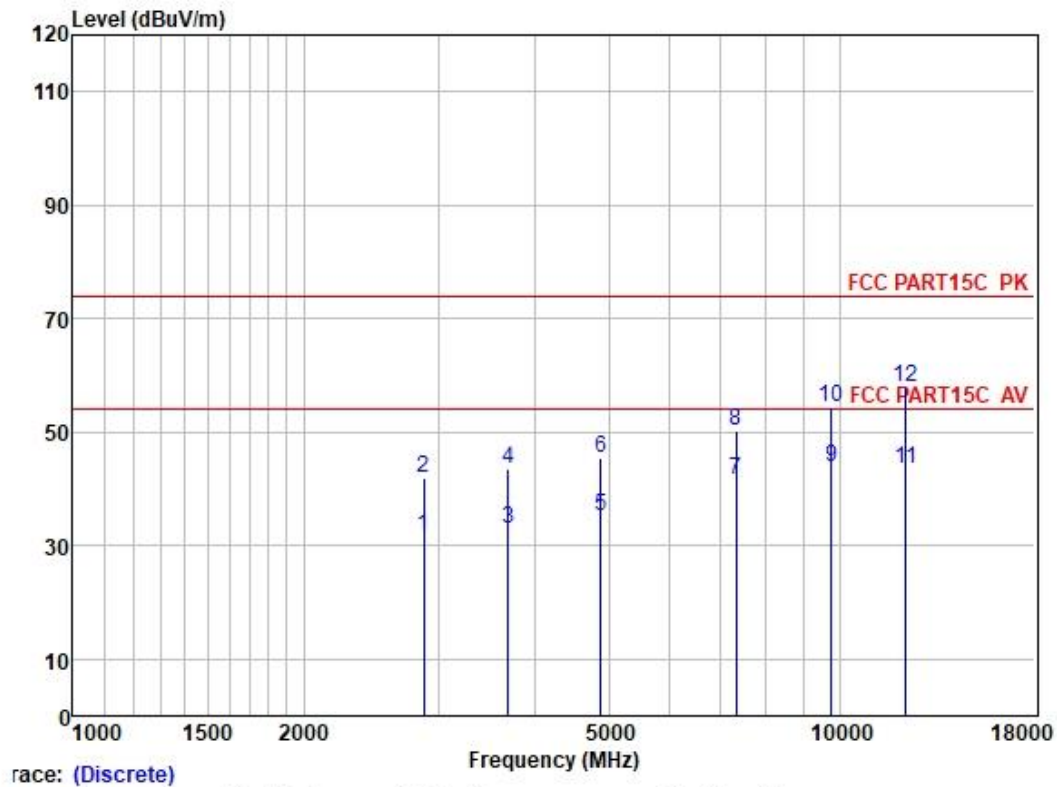
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2905.331	37.42	27.76	4.85	37.13	32.90	54.00	-21.10	VERTICAL
2	2905.331	46.46	27.76	4.85	37.13	41.94	74.00	-32.06	VERTICAL
3	3790.361	34.56	28.97	7.83	36.92	34.44	54.00	-19.56	VERTICAL
4	3790.361	44.51	28.97	7.83	36.92	44.39	74.00	-29.61	VERTICAL
5	4804.419	39.22	30.79	5.87	36.94	38.94	54.00	-15.06	VERTICAL
6	4804.419	49.19	30.79	5.87	36.94	48.91	74.00	-25.09	VERTICAL
7	7206.015	34.71	35.45	7.34	36.93	40.57	54.00	-13.43	VERTICAL
8	7206.015	44.82	35.45	7.34	36.93	50.68	74.00	-23.32	VERTICAL
9	9608.430	35.22	37.51	8.15	37.08	43.80	54.00	-10.20	VERTICAL
10	9608.430	45.83	37.51	8.15	37.08	54.41	74.00	-19.59	VERTICAL
11	12010.900	30.31	39.50	10.67	37.20	43.28	54.00	-10.72	VERTICAL
12	12010.900	45.45	39.50	10.67	37.20	58.42	74.00	-15.58	VERTICAL



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



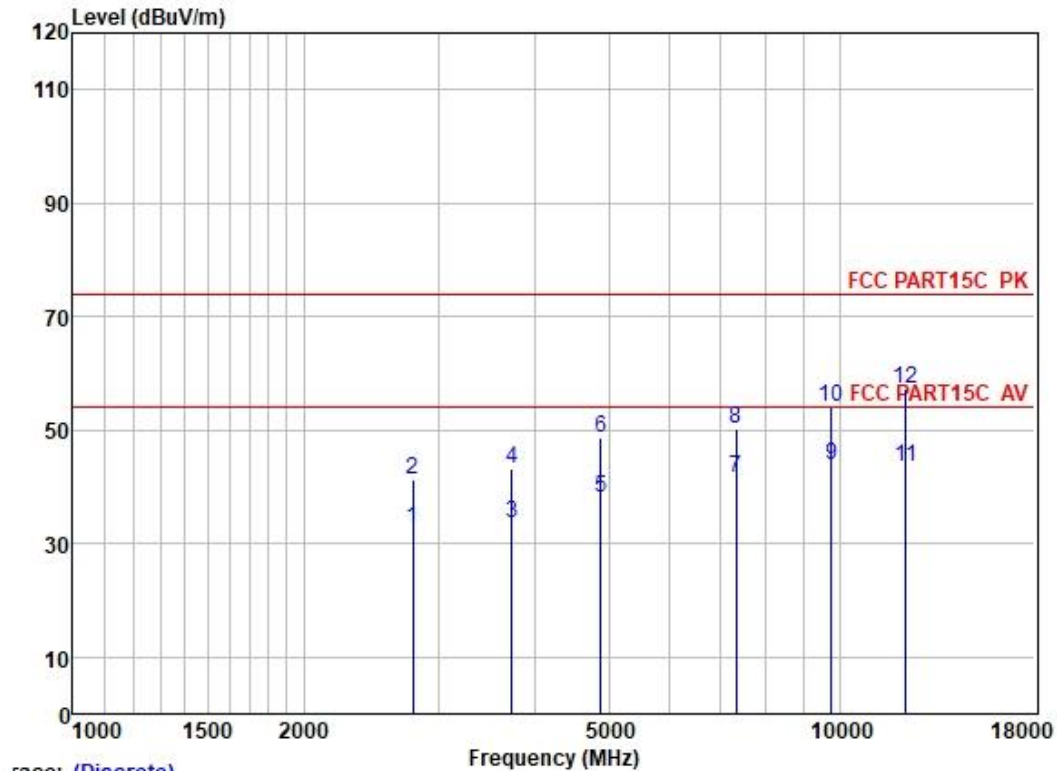
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2871.934	36.22	27.70	4.83	37.15	31.60	54.00	-22.40	HORIZONTAL Average
2	2871.934	46.60	27.70	4.83	37.15	41.98	74.00	-32.02	HORIZONTAL Peak
3	3693.033	34.16	28.47	7.14	36.93	32.84	54.00	-21.16	HORIZONTAL Average
4	3693.033	44.99	28.47	7.14	36.93	43.67	74.00	-30.33	HORIZONTAL Peak
5	4884.887	34.26	30.95	6.86	36.95	35.12	54.00	-18.88	HORIZONTAL Average
6	4884.887	44.53	30.95	6.86	36.95	45.39	74.00	-28.61	HORIZONTAL Peak
7	7326.015	35.29	35.74	7.39	36.92	41.50	54.00	-12.50	HORIZONTAL Average
8	7326.015	44.18	35.74	7.39	36.92	50.39	74.00	-23.61	HORIZONTAL Peak
9	9768.916	34.78	37.74	8.37	37.09	43.80	54.00	-10.20	HORIZONTAL Average
10	9768.916	45.26	37.74	8.37	37.09	54.28	74.00	-19.72	HORIZONTAL Peak
11	12210.950	30.41	39.21	10.98	37.06	43.54	54.00	-10.46	HORIZONTAL Average
12	12210.950	44.67	39.21	10.98	37.06	57.80	74.00	-16.20	HORIZONTAL Peak



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



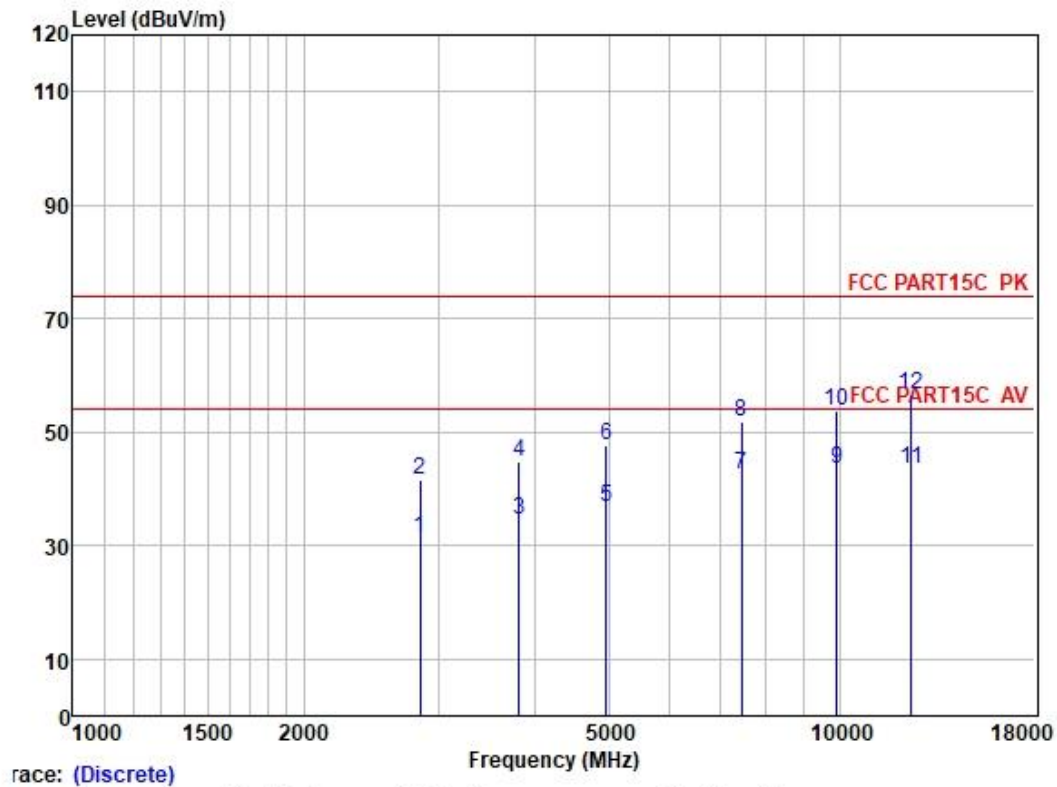
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2774.030	37.65	27.43	4.72	37.26	32.54	54.00	-21.46	VERTICAL
2	2774.030	46.29	27.43	4.72	37.26	41.18	74.00	-32.82	VERTICAL
3	3735.978	34.28	28.70	7.50	36.92	33.56	54.00	-20.44	VERTICAL
4	3735.978	44.05	28.70	7.50	36.92	43.33	74.00	-30.67	VERTICAL
5	4884.975	37.14	30.95	6.86	36.95	38.00	54.00	-16.00	VERTICAL
6	4884.975	47.65	30.95	6.86	36.95	48.51	74.00	-25.49	VERTICAL
7	7326.806	35.26	35.74	7.39	36.92	41.47	54.00	-12.53	VERTICAL
8	7326.806	44.04	35.74	7.39	36.92	50.25	74.00	-23.75	VERTICAL
9	9768.349	34.93	37.74	8.37	37.09	43.95	54.00	-10.05	VERTICAL
10	9768.349	45.10	37.74	8.37	37.09	54.12	74.00	-19.88	VERTICAL
11	12210.750	30.39	39.21	10.98	37.06	43.52	54.00	-10.48	VERTICAL
12	12210.750	44.21	39.21	10.98	37.06	57.34	74.00	-16.66	VERTICAL



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



Trace: (Discrete)

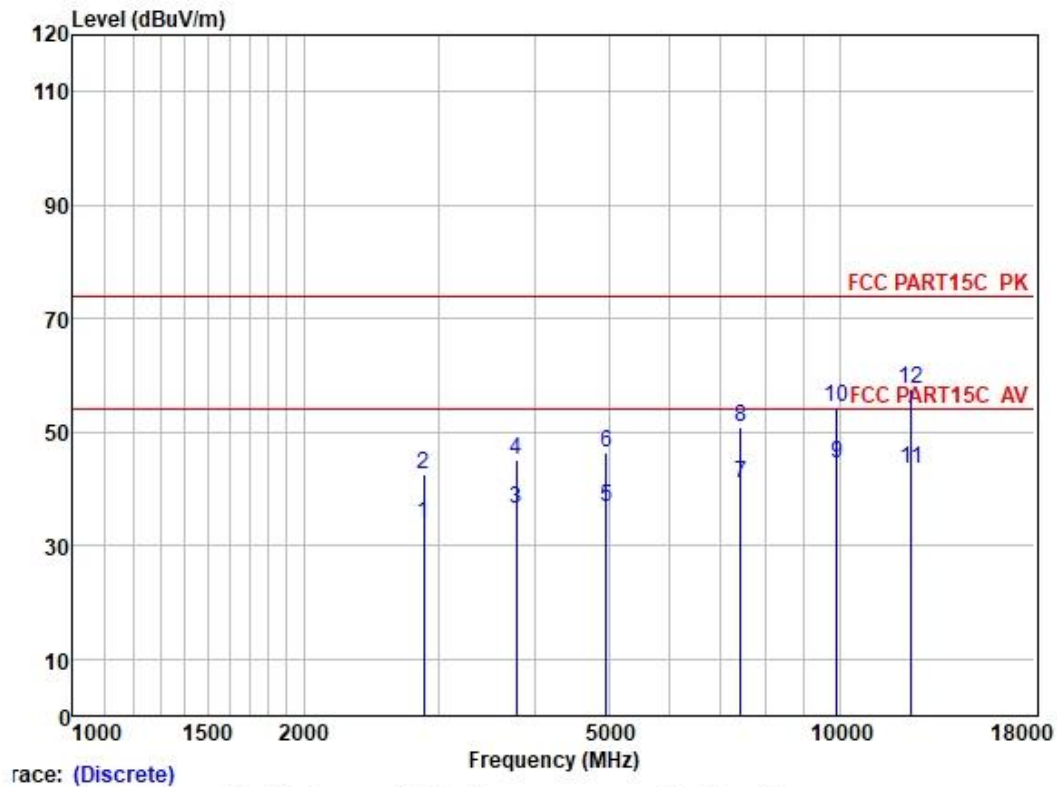
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2838.921	36.18	27.63	4.76	37.19	31.38	54.00	-22.62	HORIZONTAL Average
2	2838.921	46.50	27.63	4.76	37.19	41.70	74.00	-32.30	HORIZONTAL Peak
3	3823.371	34.69	29.08	7.83	36.91	34.69	54.00	-19.31	HORIZONTAL Average
4	3823.371	44.80	29.08	7.83	36.91	44.80	74.00	-29.20	HORIZONTAL Peak
5	4960.993	34.78	31.05	7.84	36.96	36.71	54.00	-17.29	HORIZONTAL Average
6	4960.993	45.78	31.05	7.84	36.96	47.71	74.00	-26.29	HORIZONTAL Peak
7	7440.914	36.03	35.92	7.43	36.92	42.46	54.00	-11.54	HORIZONTAL Average
8	7440.914	45.35	35.92	7.43	36.92	51.78	74.00	-22.22	HORIZONTAL Peak
9	9920.371	34.19	37.92	8.63	37.10	43.64	54.00	-10.36	HORIZONTAL Average
10	9920.371	44.41	37.92	8.63	37.10	53.86	74.00	-20.14	HORIZONTAL Peak
11	12400.280	30.22	38.93	11.17	36.90	43.42	54.00	-10.58	HORIZONTAL Average
12	12400.280	43.52	38.93	11.17	36.90	56.72	74.00	-17.28	HORIZONTAL Peak



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



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	2871.934	38.41	27.70	4.83	37.15	33.79	54.00	-20.21	VERTICAL	Average
2	2871.934	47.04	27.70	4.83	37.15	42.42	74.00	-31.58	VERTICAL	Peak
3	3790.361	36.68	28.97	7.83	36.92	36.56	54.00	-17.44	VERTICAL	Average
4	3790.361	45.30	28.97	7.83	36.92	45.18	74.00	-28.82	VERTICAL	Peak
5	4960.993	35.02	31.05	7.84	36.96	36.95	54.00	-17.05	VERTICAL	Average
6	4960.993	44.52	31.05	7.84	36.96	46.45	74.00	-27.55	VERTICAL	Peak
7	7440.461	34.38	35.92	7.43	36.92	40.81	54.00	-13.19	VERTICAL	Average
8	7440.461	44.38	35.92	7.43	36.92	50.81	74.00	-23.19	VERTICAL	Peak
9	9920.151	35.03	37.92	8.63	37.10	44.48	54.00	-9.52	VERTICAL	Average
10	9920.151	45.08	37.92	8.63	37.10	54.53	74.00	-19.47	VERTICAL	Peak
11	12400.450	30.33	38.93	11.17	36.90	43.53	54.00	-10.47	VERTICAL	Average
12	12400.450	44.53	38.93	11.17	36.90	57.73	74.00	-16.27	VERTICAL	Peak

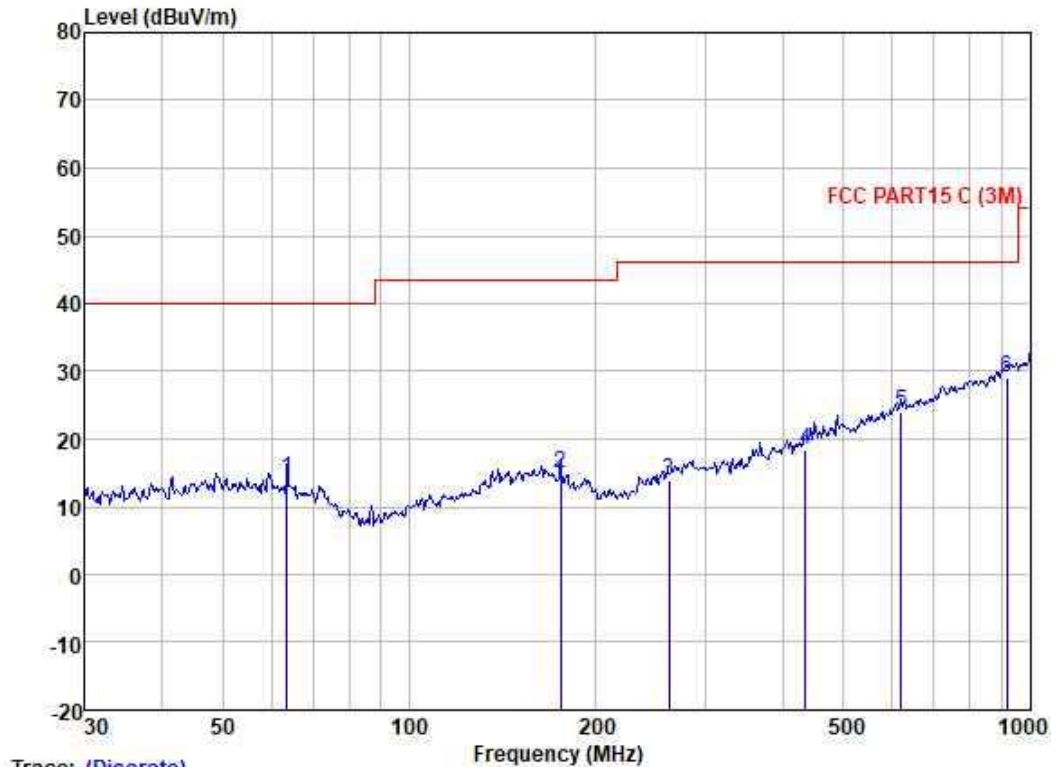


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For right earbud

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



Trace: (Discrete)

	Read	Antenna	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	63.536	27.05	12.95	1.30	27.16	14.14	40.00	-25.86	HORIZONTAL QP
2	175.037	26.93	12.60	2.31	26.82	15.02	43.50	-28.48	HORIZONTAL QP
3	261.975	25.86	12.30	2.71	26.98	13.89	46.00	-32.11	HORIZONTAL QP
4	434.065	25.78	16.85	3.81	27.97	18.47	46.00	-27.53	HORIZONTAL QP
5	620.710	26.73	20.40	4.91	28.08	23.96	46.00	-22.04	HORIZONTAL QP
6	919.287	26.65	23.60	6.63	27.90	28.98	46.00	-17.02	HORIZONTAL QP



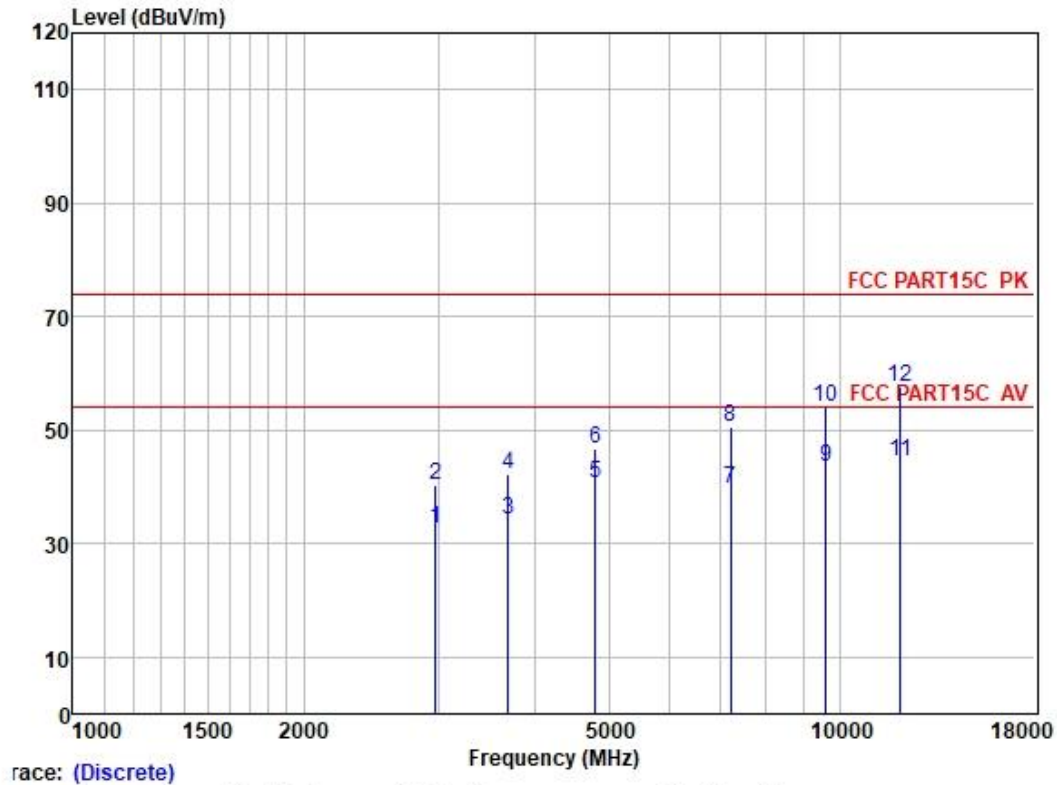
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中国·广州·经济技术开发区科学城科珠路196号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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



Trace: (Discrete)

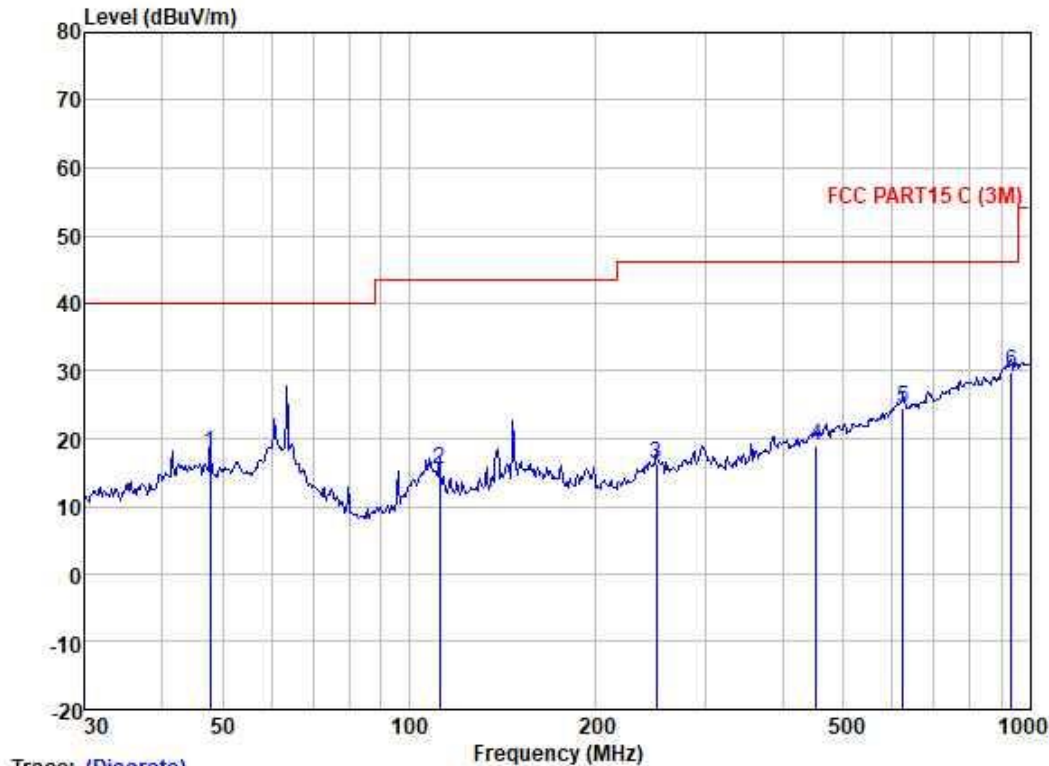
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2973.293	37.18	27.87	4.67	37.09	32.63	54.00	-21.37	HORIZONTAL Average
2	2973.293	44.80	27.87	4.67	37.09	40.25	74.00	-33.75	HORIZONTAL Peak
3	3693.033	35.53	28.47	7.14	36.93	34.21	54.00	-19.79	HORIZONTAL Average
4	3693.033	43.57	28.47	7.14	36.93	42.25	74.00	-31.75	HORIZONTAL Peak
5	4804.993	40.80	30.79	5.87	36.94	40.52	54.00	-13.48	HORIZONTAL Average
6	4804.993	46.86	30.79	5.87	36.94	46.58	74.00	-27.42	HORIZONTAL Peak
7	7206.015	33.96	35.45	7.34	36.93	39.82	54.00	-14.18	HORIZONTAL Average
8	7206.015	44.84	35.45	7.34	36.93	50.70	74.00	-23.30	HORIZONTAL Peak
9	9608.151	35.05	37.51	8.15	37.08	43.63	54.00	-10.37	HORIZONTAL Average
10	9608.151	45.56	37.51	8.15	37.08	54.14	74.00	-19.86	HORIZONTAL Peak
11	12010.600	31.61	39.50	10.67	37.20	44.58	54.00	-9.42	HORIZONTAL Average
12	12010.600	44.72	39.50	10.67	37.20	57.69	74.00	-16.31	HORIZONTAL Peak



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



Trace: (Discrete)

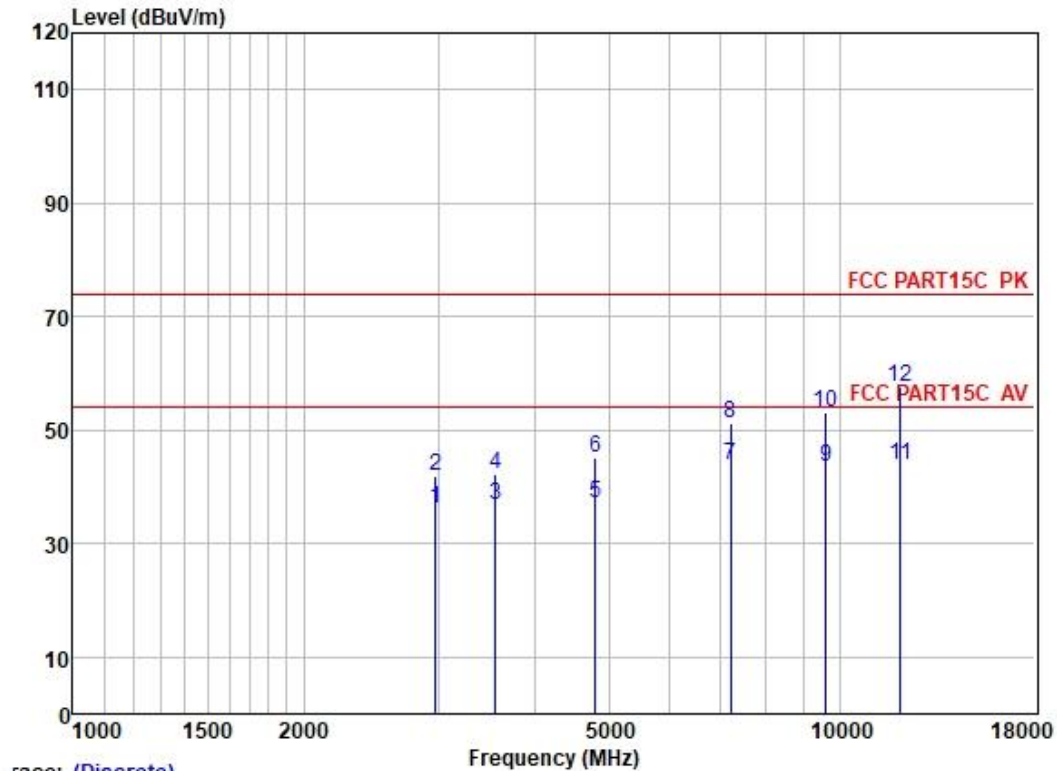
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	47.659	29.77	13.99	1.19	27.17	17.78	40.00	-22.22	VERTICAL QP
2	111.738	30.32	10.48	1.72	27.08	15.44	43.50	-28.06	VERTICAL QP
3	250.301	28.32	12.10	2.70	26.94	16.18	46.00	-29.82	VERTICAL QP
4	452.720	25.52	17.37	4.12	27.99	19.02	46.00	-26.98	VERTICAL QP
5	625.078	27.39	20.40	4.94	28.08	24.65	46.00	-21.35	VERTICAL QP
6	932.272	27.05	23.80	6.82	27.88	29.79	46.00	-16.21	VERTICAL QP



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Trace: (Discrete)

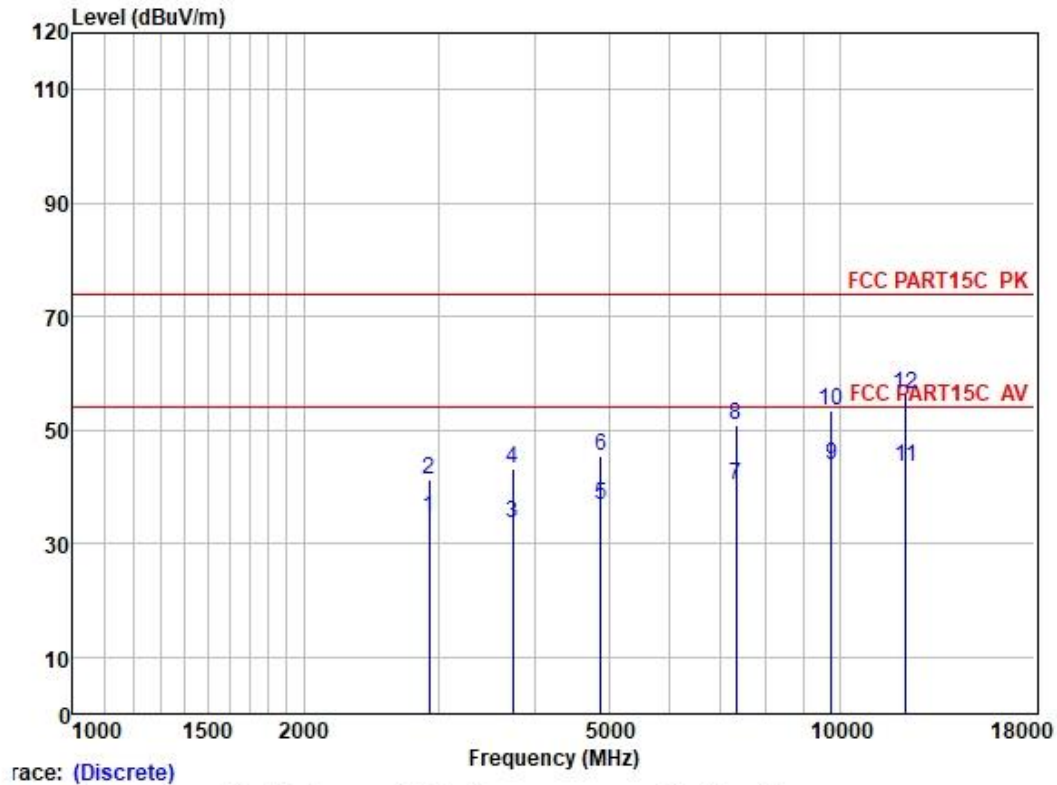
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2973.293	40.65	27.87	4.67	37.09	36.10	54.00	-17.90	VERTICAL
2	2973.293	46.32	27.87	4.67	37.09	41.77	74.00	-32.23	VERTICAL
3	3556.843	39.52	28.03	6.24	36.95	36.84	54.00	-17.16	VERTICAL
4	3556.843	45.00	28.03	6.24	36.95	42.32	74.00	-31.68	VERTICAL
5	4804.887	37.42	30.79	5.87	36.94	37.14	54.00	-16.86	VERTICAL
6	4804.887	45.53	30.79	5.87	36.94	45.25	74.00	-28.75	VERTICAL
7	7206.999	38.05	35.45	7.34	36.93	43.91	54.00	-10.09	VERTICAL
8	7206.999	45.34	35.45	7.34	36.93	51.20	74.00	-22.80	VERTICAL
9	9608.187	34.91	37.51	8.15	37.08	43.49	54.00	-10.51	VERTICAL
10	9608.187	44.65	37.51	8.15	37.08	53.23	74.00	-20.77	VERTICAL
11	12010.760	30.97	39.50	10.67	37.20	43.94	54.00	-10.06	VERTICAL
12	12010.760	44.62	39.50	10.67	37.20	57.59	74.00	-16.41	VERTICAL



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



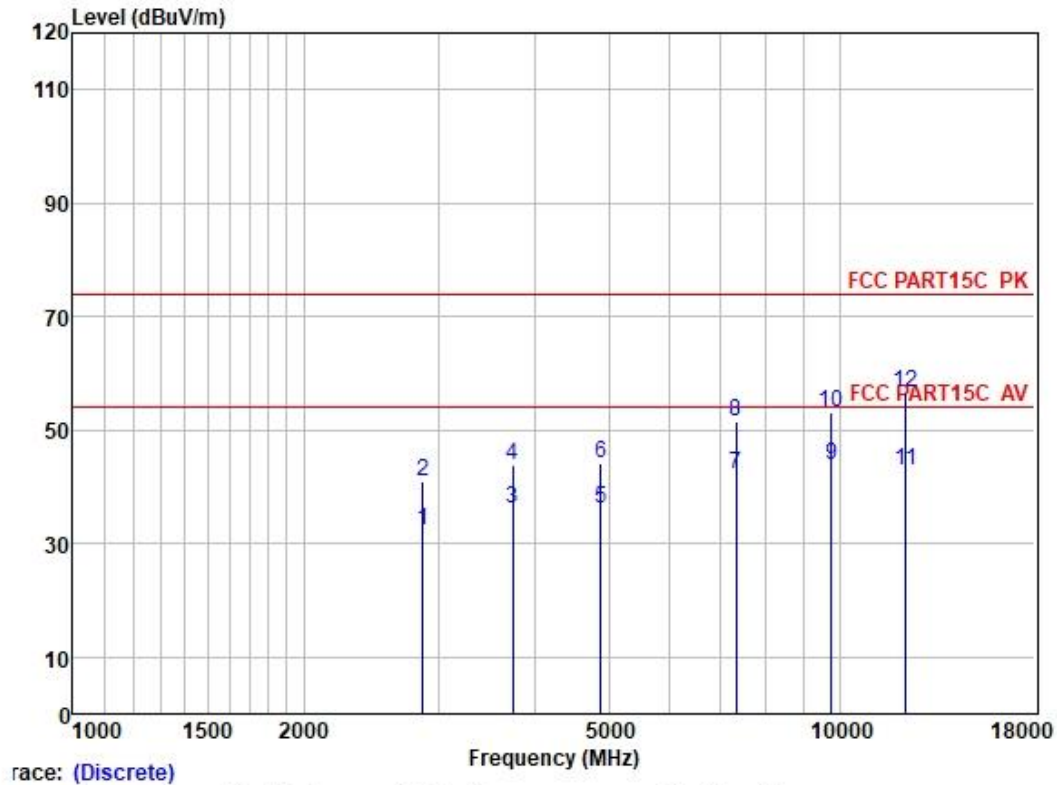
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2913.740	39.20	27.78	4.83	37.12	34.69	54.00	-19.31	HORIZONTAL Average
2	2913.740	45.92	27.78	4.83	37.12	41.41	74.00	-32.59	HORIZONTAL Peak
3	3746.792	34.16	28.76	7.58	36.92	33.58	54.00	-20.42	HORIZONTAL Average
4	3746.792	43.88	28.76	7.58	36.92	43.30	74.00	-30.70	HORIZONTAL Peak
5	4884.151	35.98	30.95	6.86	36.95	36.84	54.00	-17.16	HORIZONTAL Average
6	4884.151	44.64	30.95	6.86	36.95	45.50	74.00	-28.50	HORIZONTAL Peak
7	7326.833	34.09	35.74	7.39	36.92	40.30	54.00	-13.70	HORIZONTAL Average
8	7326.833	44.69	35.74	7.39	36.92	50.90	74.00	-23.10	HORIZONTAL Peak
9	9768.916	34.96	37.74	8.37	37.09	43.98	54.00	-10.02	HORIZONTAL Average
10	9768.916	44.32	37.74	8.37	37.09	53.34	74.00	-20.66	HORIZONTAL Peak
11	12210.450	30.47	39.21	10.98	37.06	43.60	54.00	-10.40	HORIZONTAL Average
12	12210.450	43.24	39.21	10.98	37.06	56.37	74.00	-17.63	HORIZONTAL Peak



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



	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	2863.645	37.06	27.68	4.81	37.16	32.39	54.00	-21.61	VERTICAL
2	2863.645	45.57	27.68	4.81	37.16	40.90	74.00	-33.10	VERTICAL
3	3746.792	36.68	28.76	7.58	36.92	36.10	54.00	-17.90	VERTICAL
4	3746.792	44.57	28.76	7.58	36.92	43.99	74.00	-30.01	VERTICAL
5	4884.888	35.22	30.95	6.86	36.95	36.08	54.00	-17.92	VERTICAL
6	4884.888	43.21	30.95	6.86	36.95	44.07	74.00	-29.93	VERTICAL
7	7326.254	35.97	35.74	7.39	36.92	42.18	54.00	-11.82	VERTICAL
8	7326.254	45.22	35.74	7.39	36.92	51.43	74.00	-22.57	VERTICAL
9	9768.925	34.69	37.74	8.37	37.09	43.71	54.00	-10.29	VERTICAL
10	9768.925	43.96	37.74	8.37	37.09	52.98	74.00	-21.02	VERTICAL
11	12210.450	29.81	39.21	10.98	37.06	42.94	54.00	-11.06	VERTICAL
12	12210.450	43.40	39.21	10.98	37.06	56.53	74.00	-17.47	VERTICAL



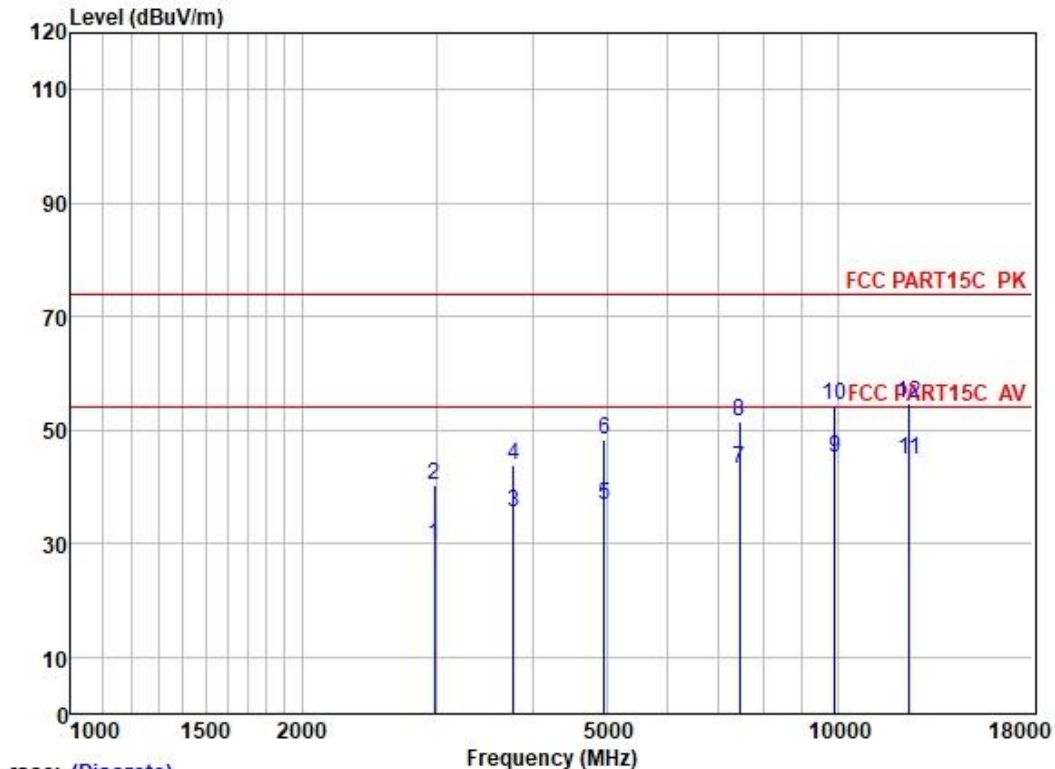
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Mode:d; Polarization:Horizontal; Modulation:GFSK; Channel:High;



Trace: (Discrete)

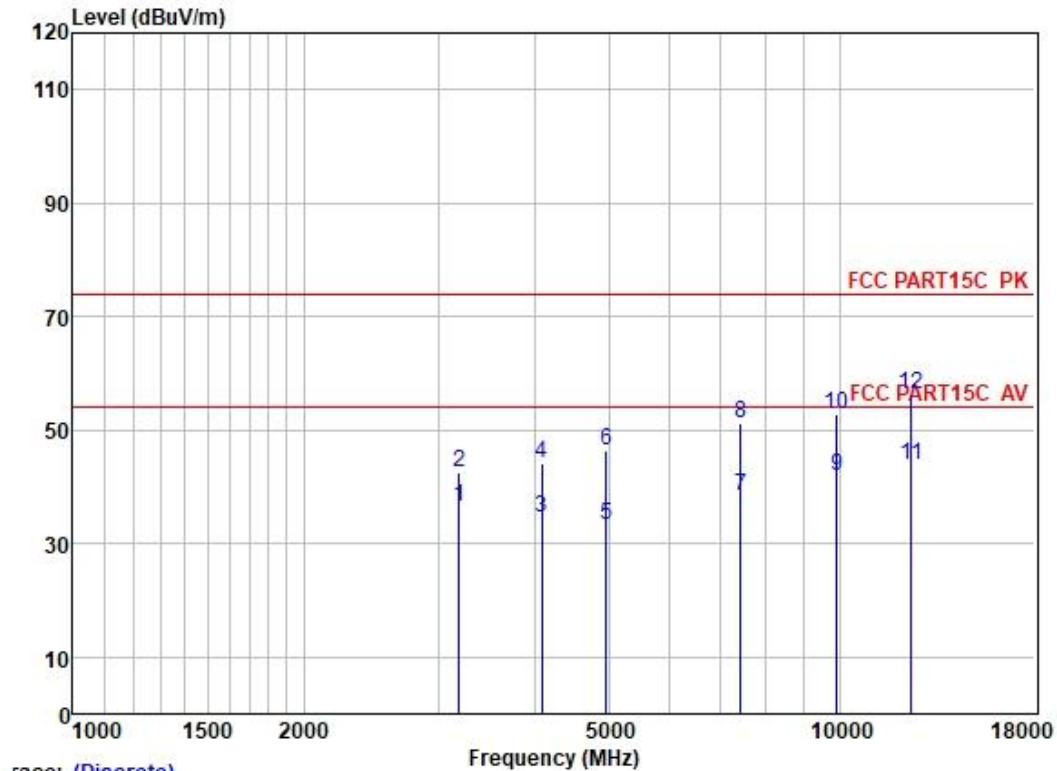
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2981.899	34.18	27.88	4.65	37.08	29.63	54.00	-24.37	HORIZONTAL Average
2	2981.899	44.93	27.88	4.65	37.08	40.38	74.00	-33.62	HORIZONTAL Peak
3	3779.422	35.89	28.92	7.78	36.92	35.67	54.00	-18.33	HORIZONTAL Average
4	3779.422	44.03	28.92	7.78	36.92	43.81	74.00	-30.19	HORIZONTAL Peak
5	4960.993	34.85	31.05	7.84	36.96	36.78	54.00	-17.22	HORIZONTAL Average
6	4960.993	46.45	31.05	7.84	36.96	48.38	74.00	-25.62	HORIZONTAL Peak
7	7440.833	36.85	35.92	7.43	36.92	43.28	54.00	-10.72	HORIZONTAL Average
8	7440.833	45.25	35.92	7.43	36.92	51.68	74.00	-22.32	HORIZONTAL Peak
9	9920.390	35.65	37.92	8.63	37.10	45.10	54.00	-8.90	HORIZONTAL Average
10	9920.390	44.96	37.92	8.63	37.10	54.41	74.00	-19.59	HORIZONTAL Peak
11	12400.480	31.58	38.93	11.17	36.90	44.78	54.00	-9.22	HORIZONTAL Average
12	12400.480	41.68	38.93	11.17	36.90	54.88	74.00	-19.12	HORIZONTAL Peak



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



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	3186.869	39.58	27.90	5.91	37.01	36.38	54.00	-17.62	VERTICAL
2	3186.869	45.65	27.90	5.91	37.01	42.45	74.00	-31.55	VERTICAL
3	4086.182	34.76	29.57	6.97	36.90	34.40	54.00	-19.60	VERTICAL
4	4086.182	44.45	29.57	6.97	36.90	44.09	74.00	-29.91	VERTICAL
5	4960.993	31.25	31.05	7.84	36.96	33.18	54.00	-20.82	VERTICAL
6	4960.993	44.38	31.05	7.84	36.96	46.31	74.00	-27.69	VERTICAL
7	7440.524	31.97	35.92	7.43	36.92	38.40	54.00	-15.60	VERTICAL
8	7440.524	44.74	35.92	7.43	36.92	51.17	74.00	-22.83	VERTICAL
9	9920.187	32.58	37.92	8.63	37.10	42.03	54.00	-11.97	VERTICAL
10	9920.187	43.43	37.92	8.63	37.10	52.88	74.00	-21.12	VERTICAL
11	12400.850	30.69	38.93	11.17	36.90	43.89	54.00	-10.11	VERTICAL
12	12400.850	42.98	38.93	11.17	36.90	56.18	74.00	-17.82	VERTICAL



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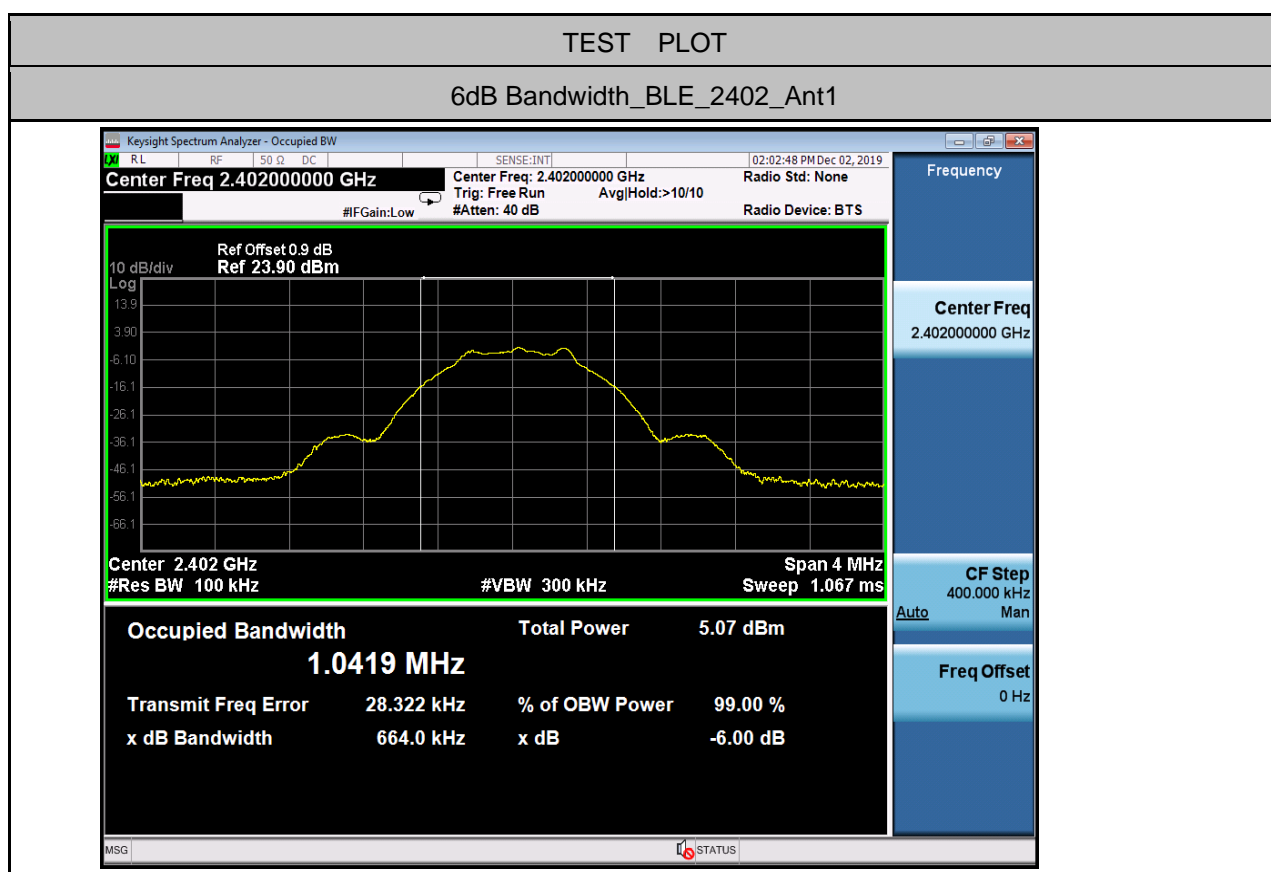
8 Appendix

8.1 Appendix 15.247

For left earbud

1.6dB Bandwidth

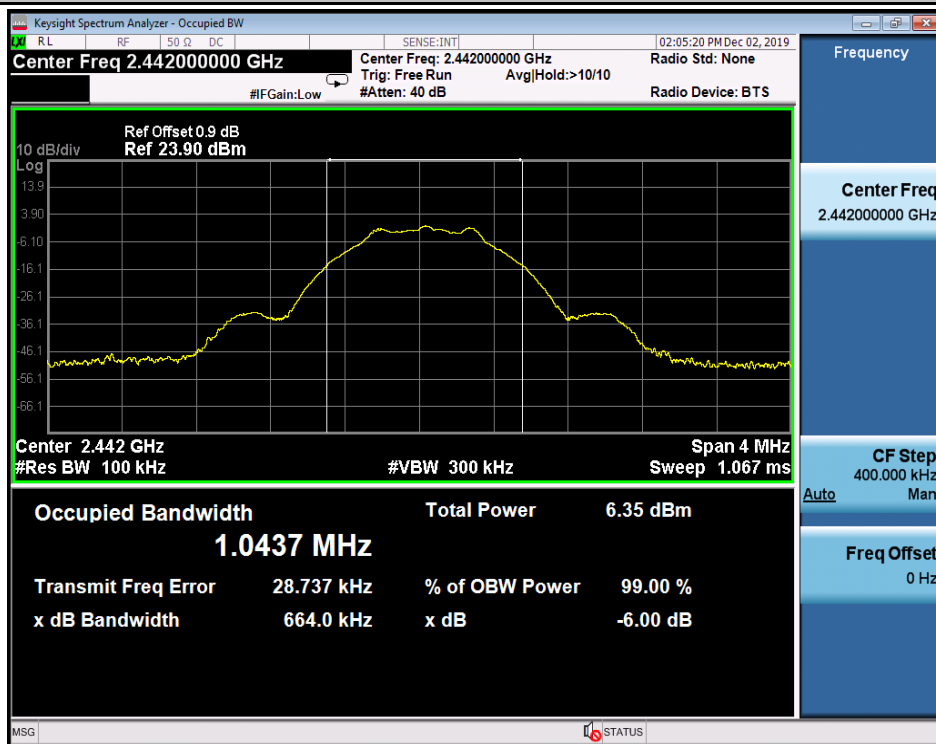
Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.0416	0.6640	0.5	PASS
BLE	2442	Ant1	1.0433	0.6640	0.5	PASS
BLE	2480	Ant1	1.0436	0.6678	0.5	PASS



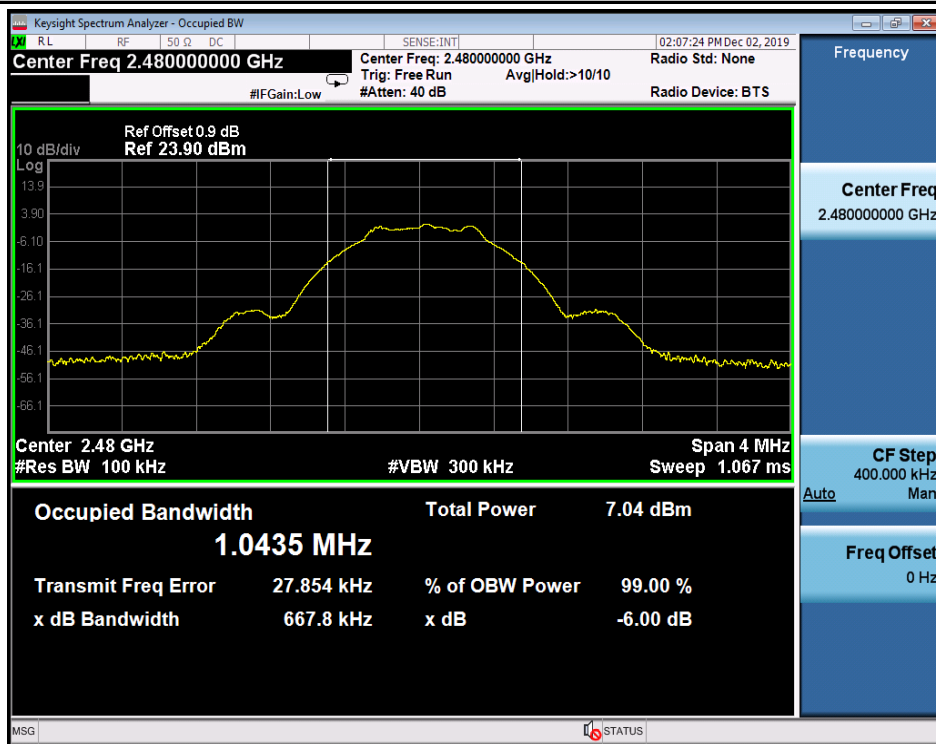
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6dB Bandwidth_BLE_2442_Ant1



6dB Bandwidth_BLE_2480_Ant1

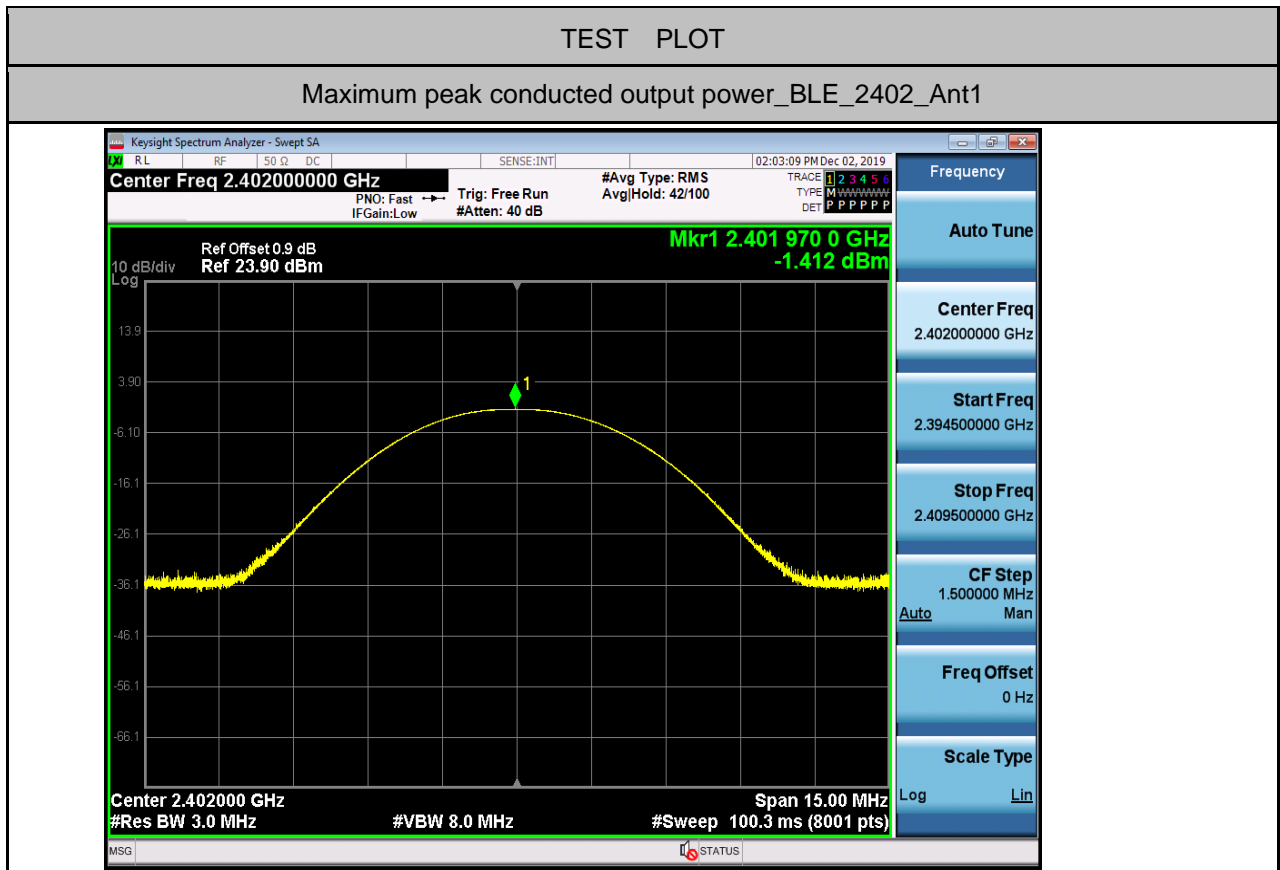


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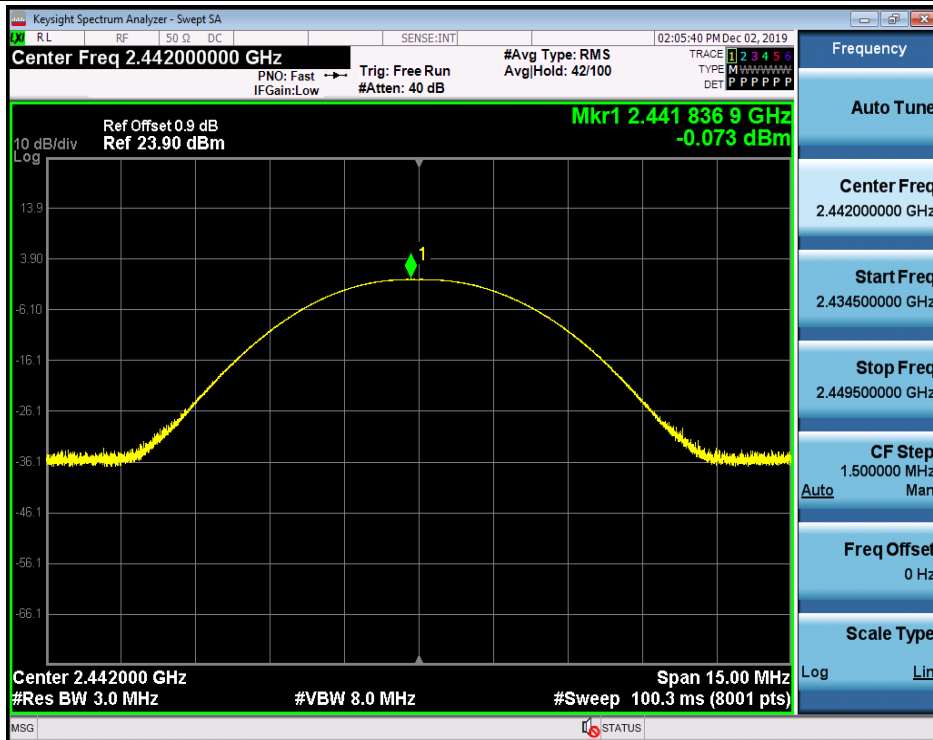
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2.Maximum peak conducted output power

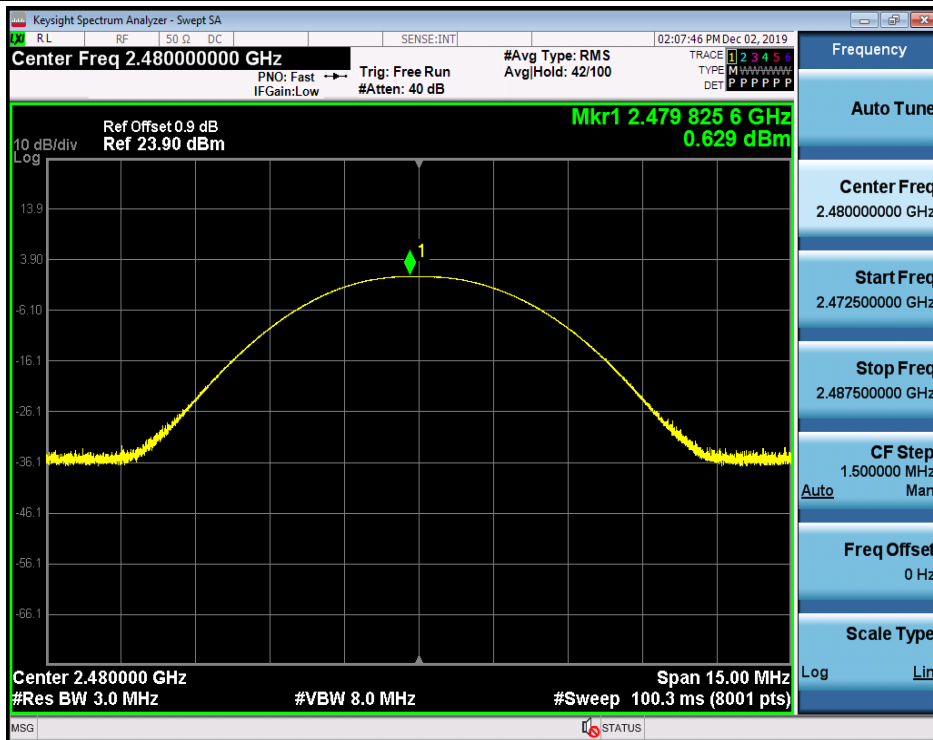
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-1.412	30	PASS
BLE	2442	Ant1	-0.073	30	PASS
BLE	2480	Ant1	0.629	30	PASS



Maximum peak conducted output power_BLE_2442_Ant1



Maximum peak conducted output power_BLE_2480_Ant1



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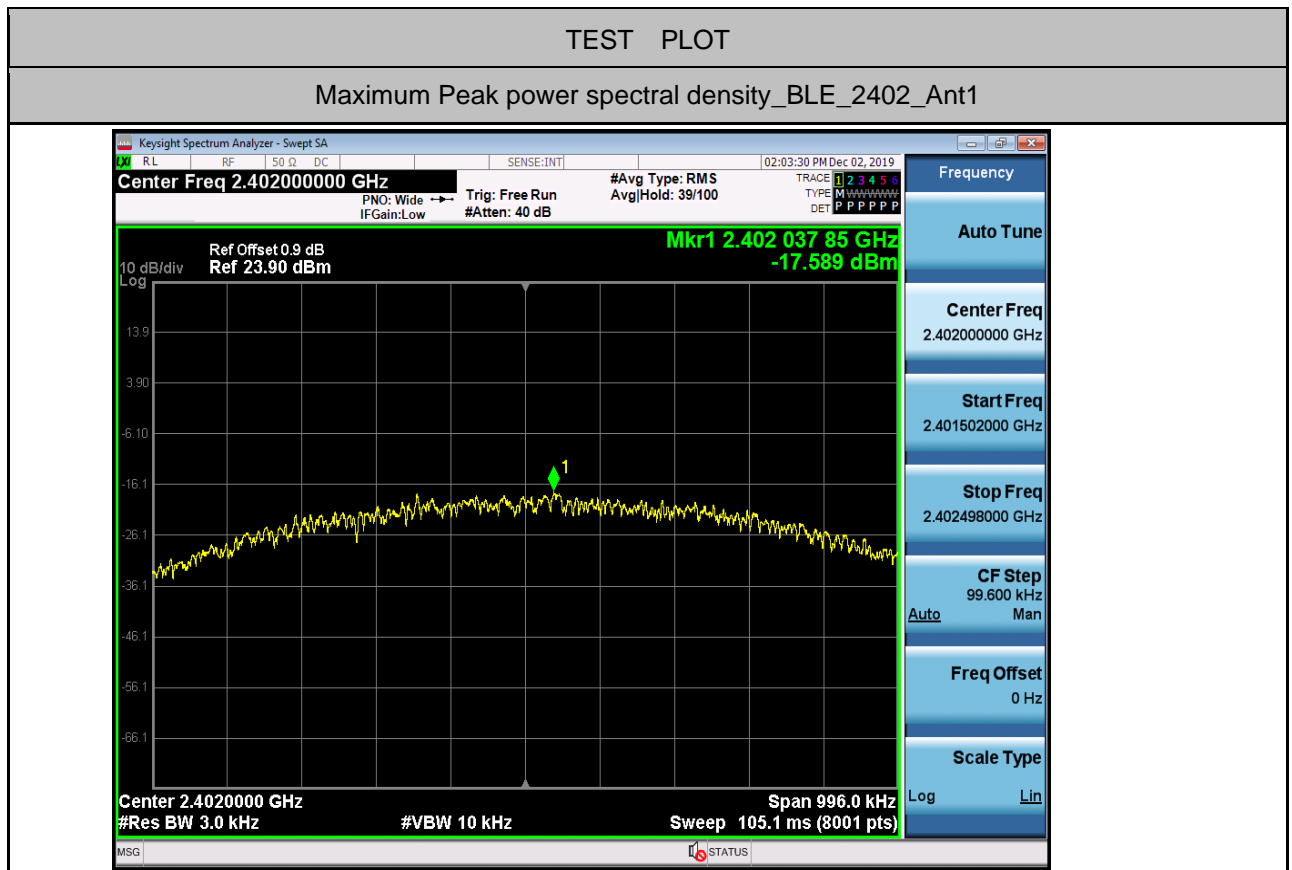
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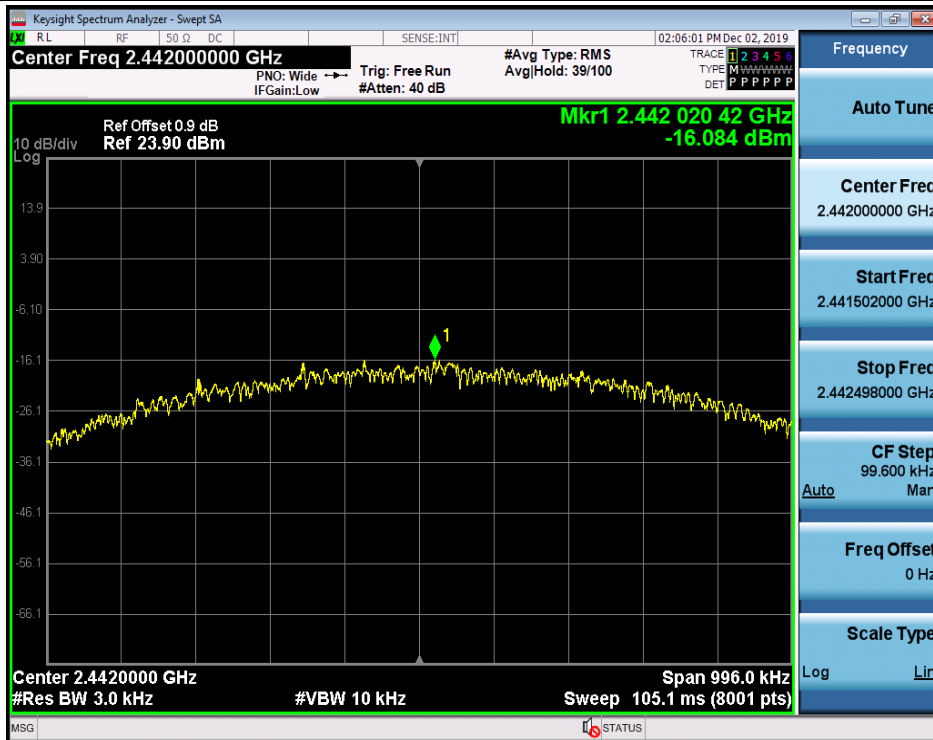
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3.Maximum Peak power spectral density

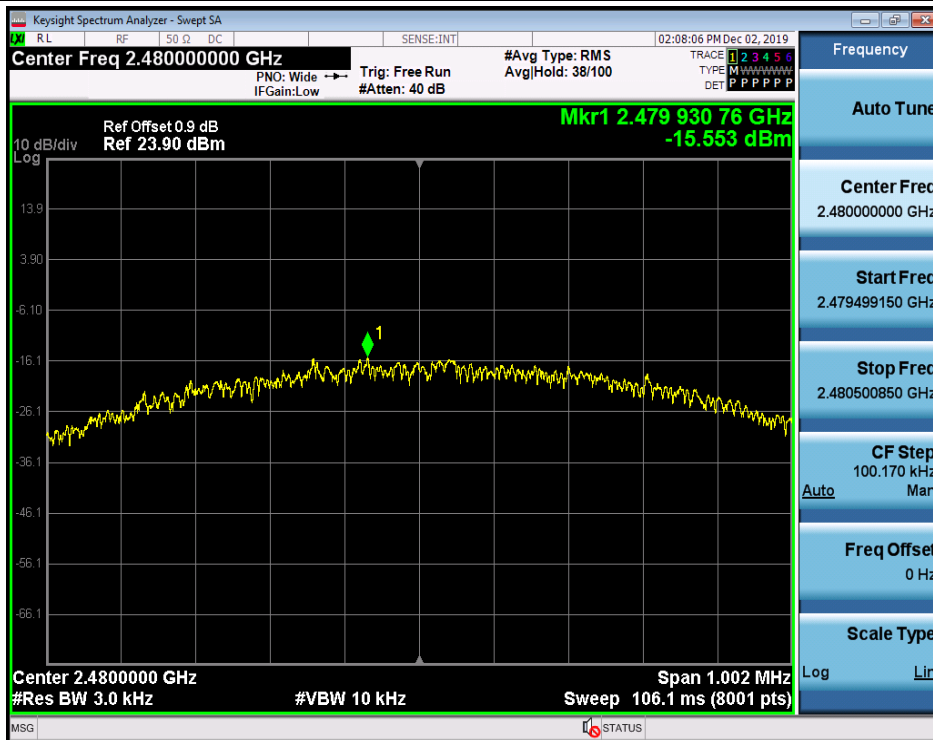
Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-17.589	8.00	PASS
BLE	2442	Ant1	-16.084	8.00	PASS
BLE	2480	Ant1	-15.553	8.00	PASS



Maximum Peak power spectral density_BLE_2442_Ant1



Maximum Peak power spectral density_BLE_2480_Ant1

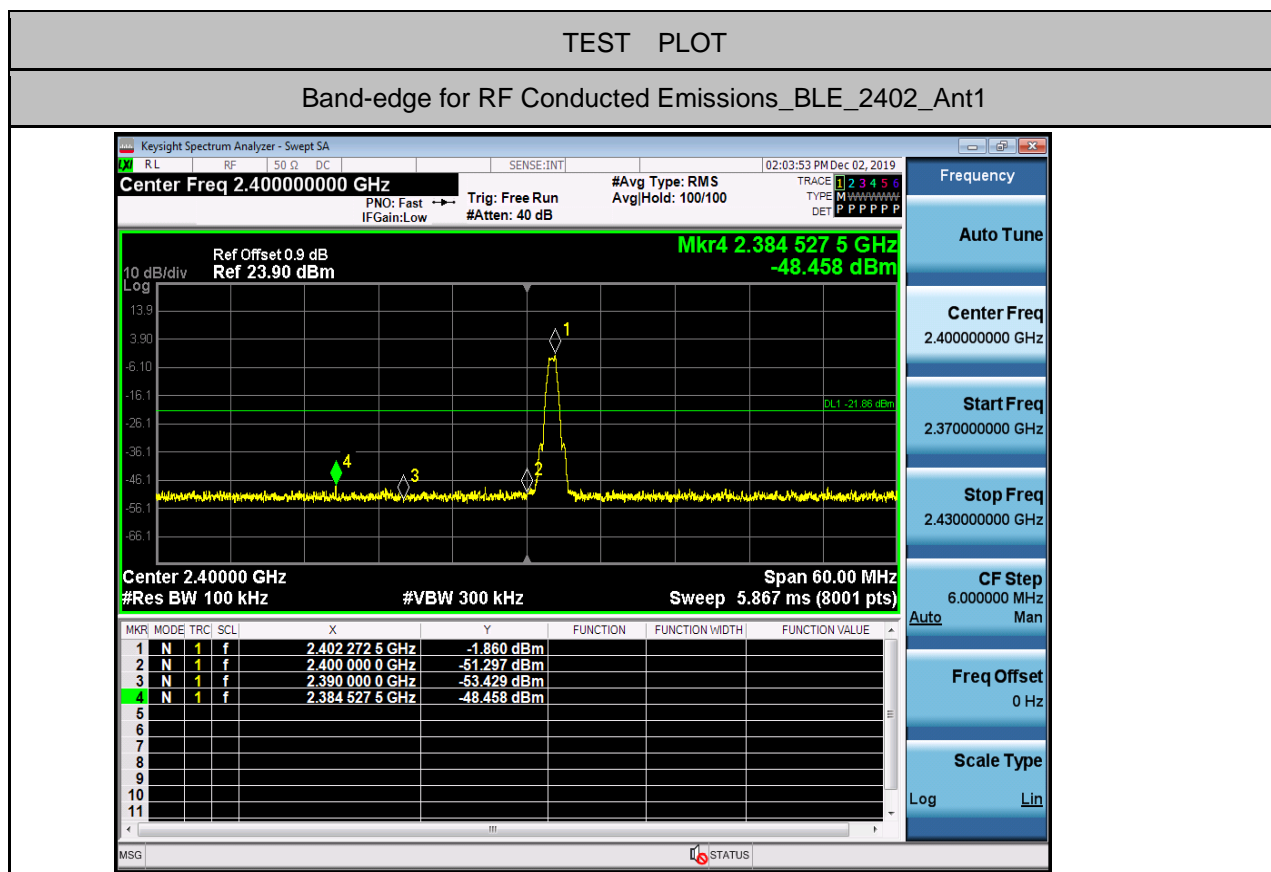


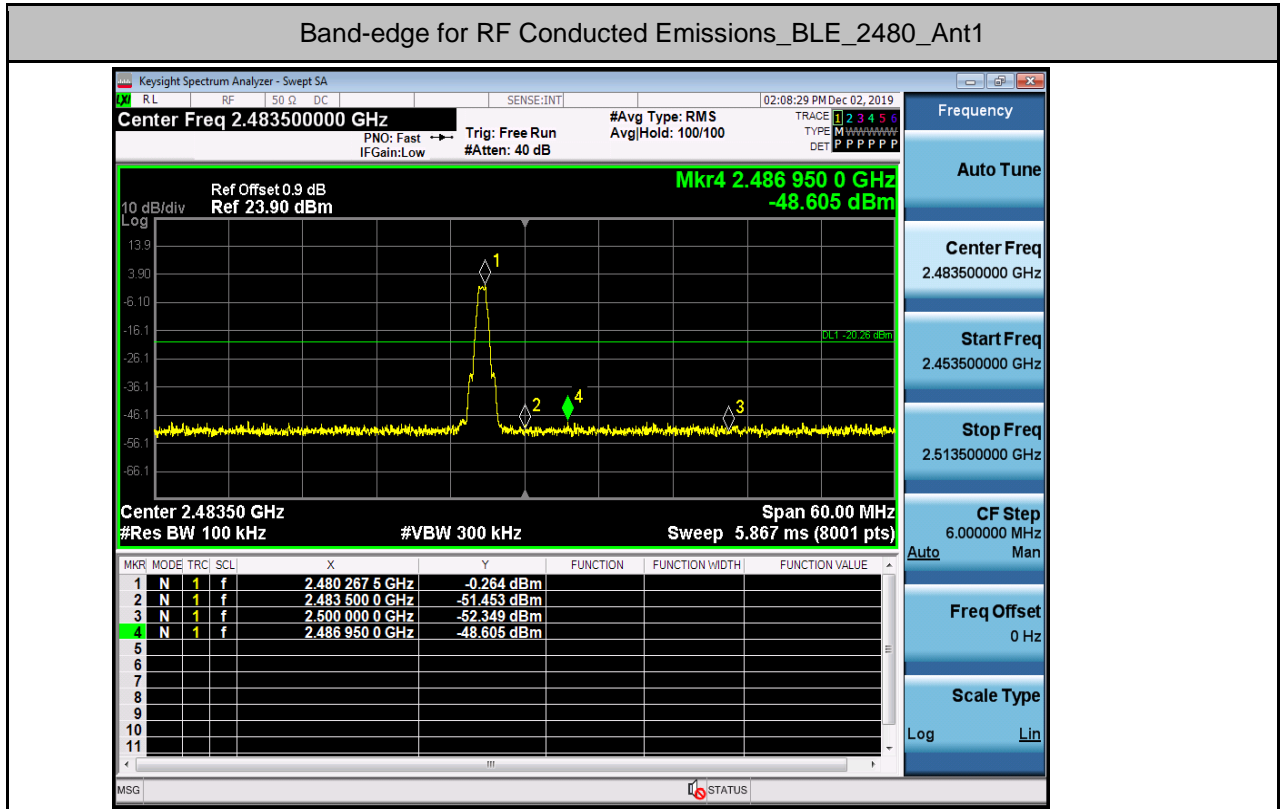
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4. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-1.860	-48.458	-21.86	PASS
BLE	2480	Ant1	-0.264	-48.605	-20.26	PASS





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	-1.703	-46.426	<-21.703	PASS
BLE	2402	Ant1	10000	26000	100	300	-1.703	-51.460	<-21.703	PASS
BLE	2442	Ant1	30	10000	100	300	-0.315	-47.176	<-20.315	PASS
BLE	2442	Ant1	10000	26000	100	300	-0.315	-51.821	<-20.315	PASS
BLE	2480	Ant1	30	10000	100	300	0.322	-45.411	<-19.678	PASS
BLE	2480	Ant1	10000	26000	100	300	0.322	-51.324	<-19.678	PASS



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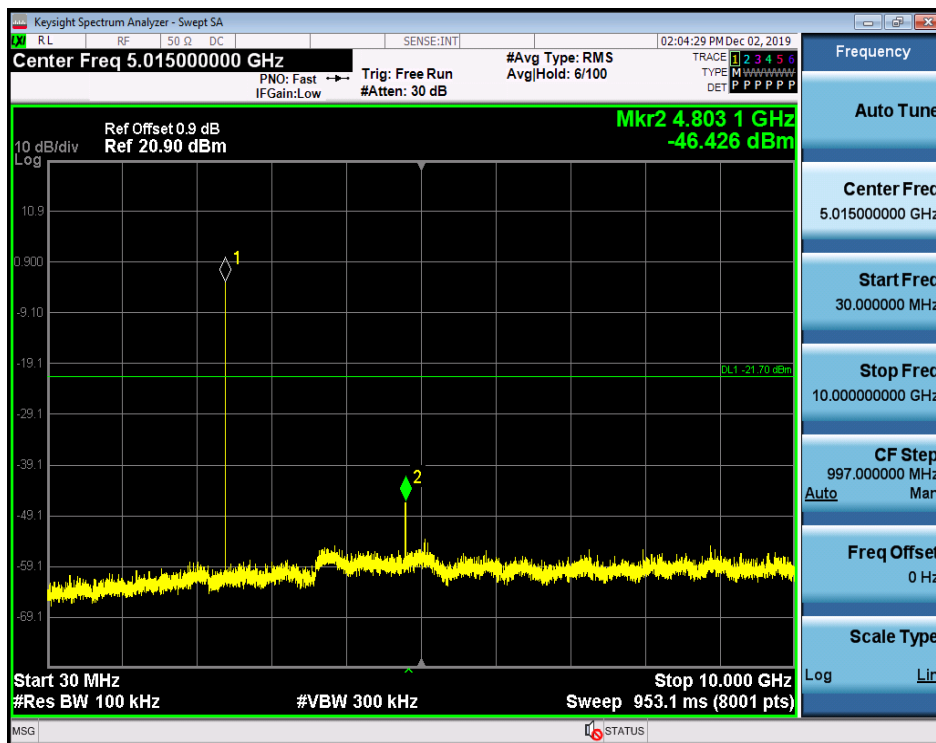
TEST PLOT

RF Conducted Spurious Emissions_BLE_2402_Ant1

Pref



CSE_1



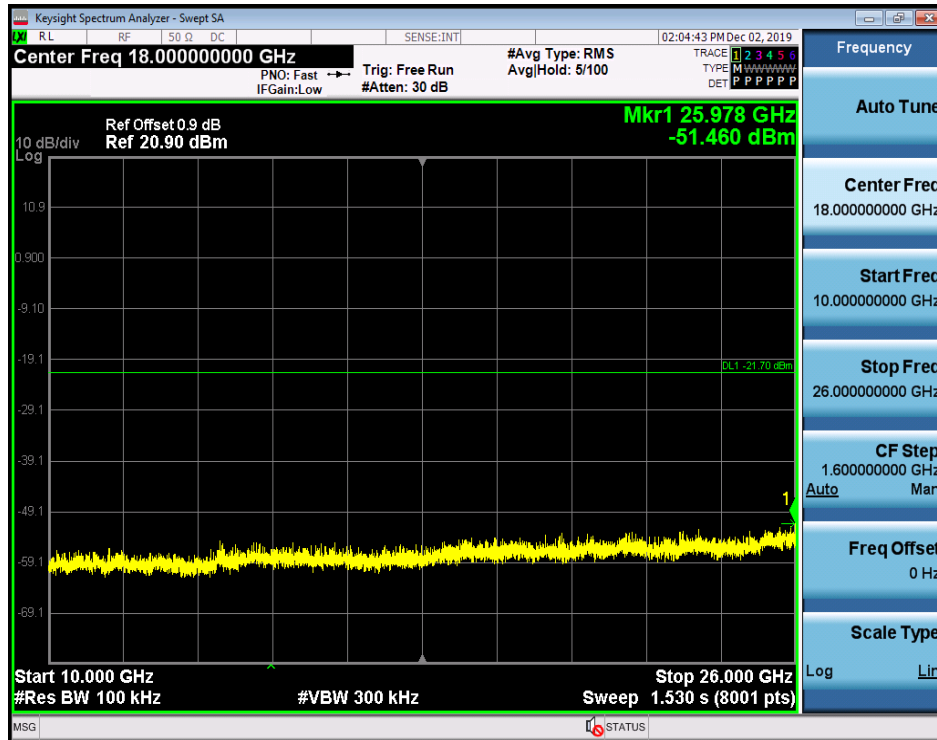
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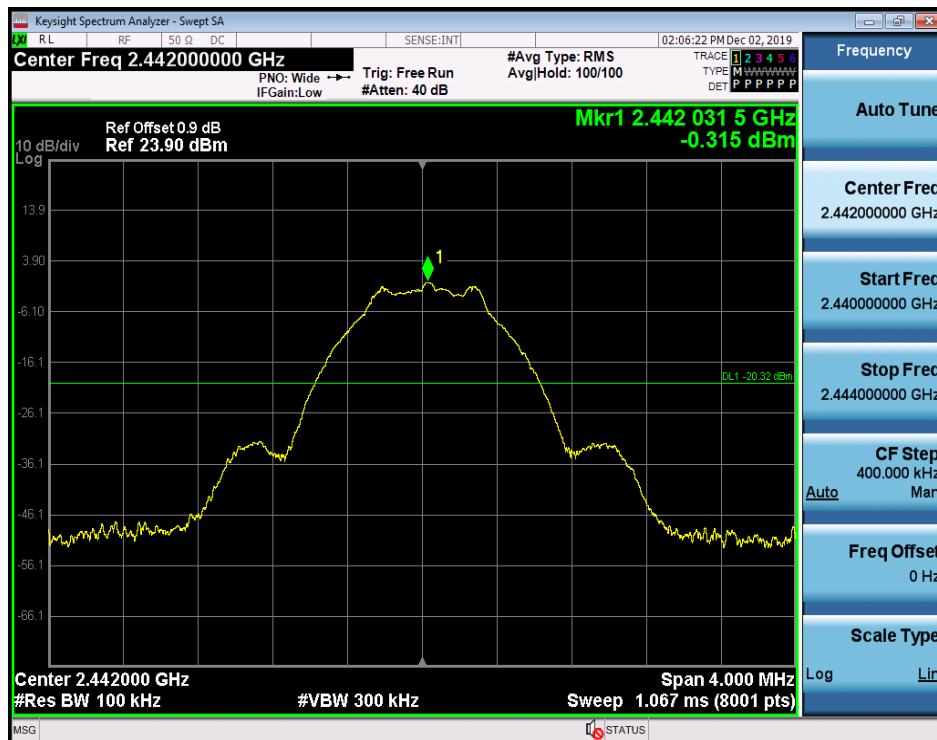
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CSE_2



RF Conducted Spurious Emissions_BLE_2442_Ant1

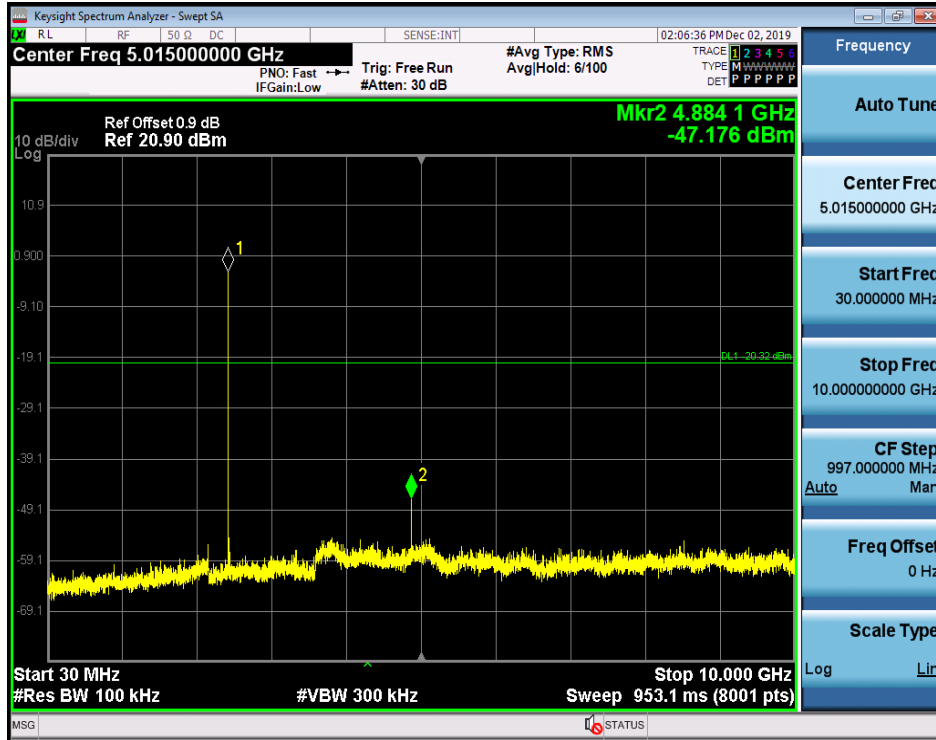
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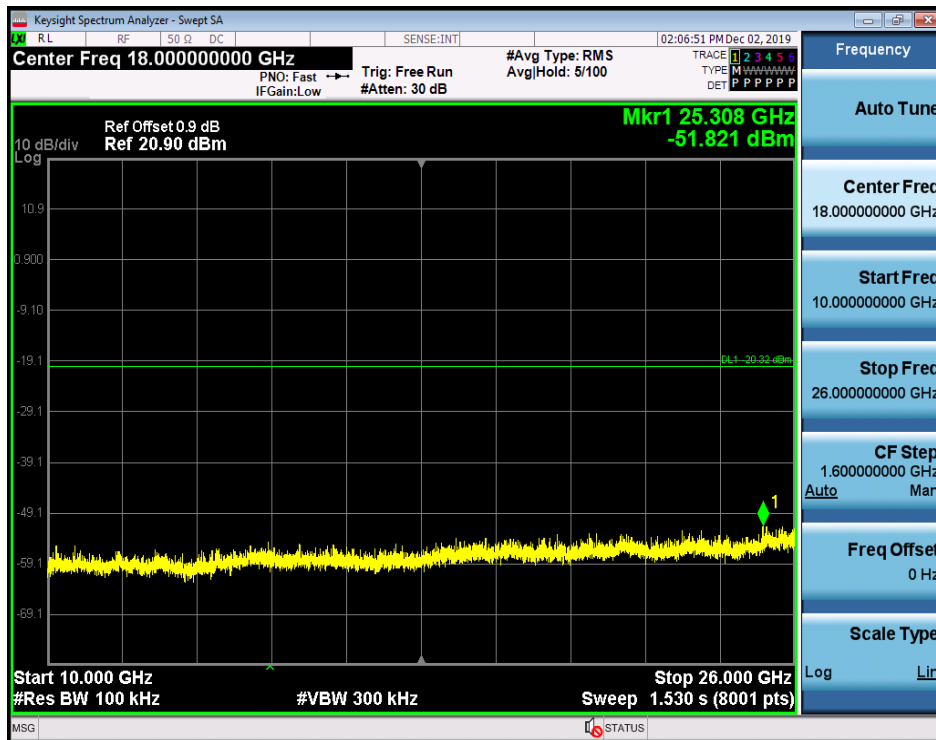
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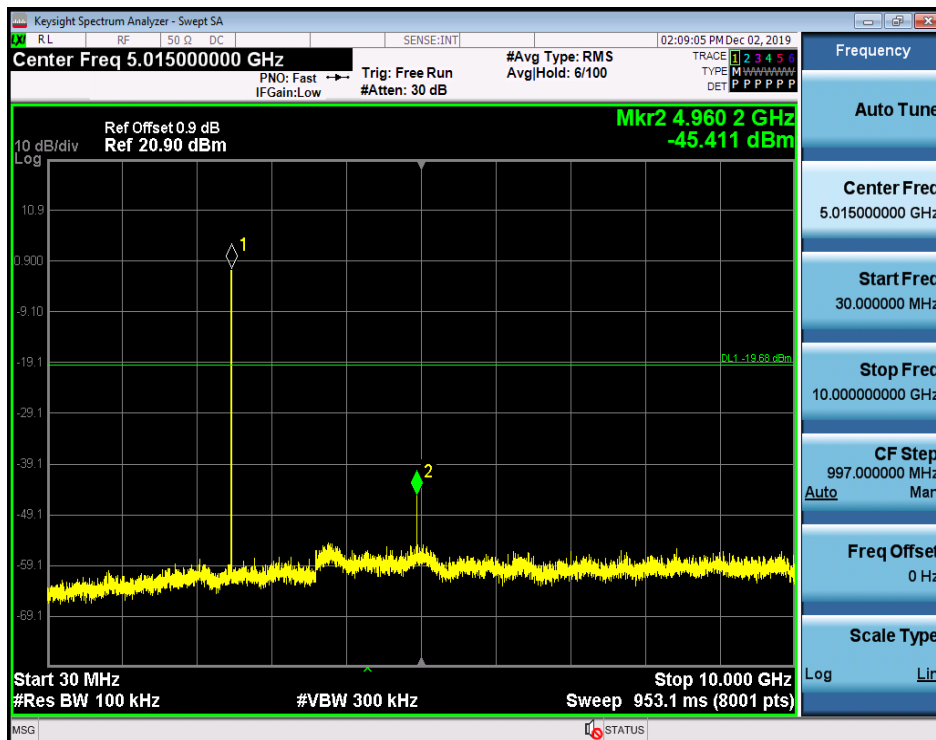
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RF Conducted Spurious Emissions_BLE_2480_Ant1

Pref



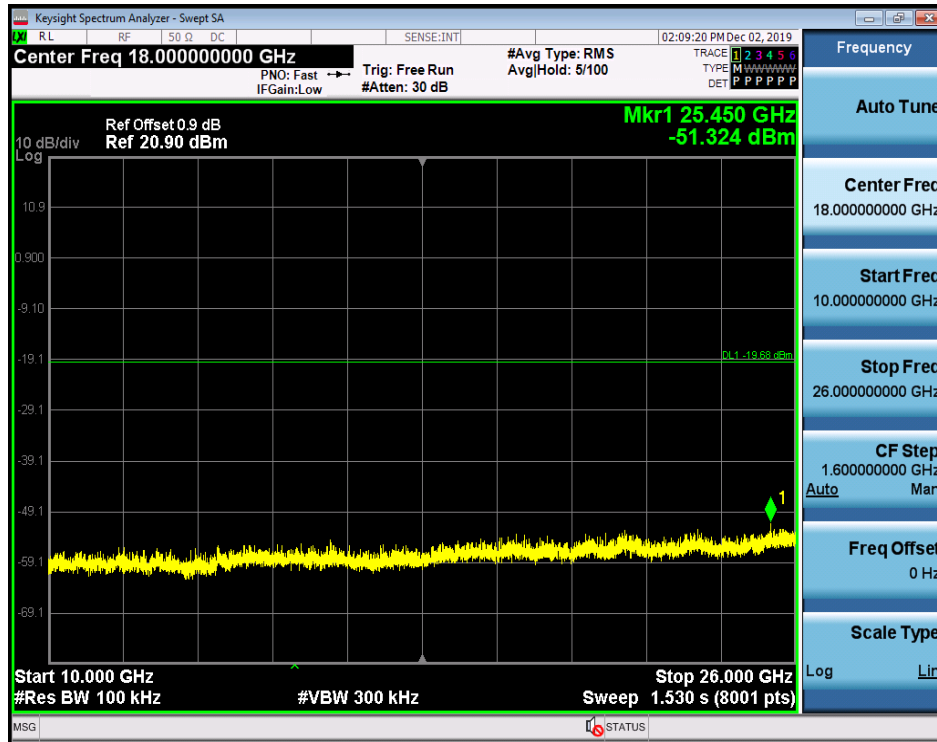
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For right earbud

1.6dB Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.0467	0.6766	0.5	PASS
BLE	2442	Ant1	1.0457	0.6577	0.5	PASS
BLE	2480	Ant1	1.0432	0.6617	0.5	PASS

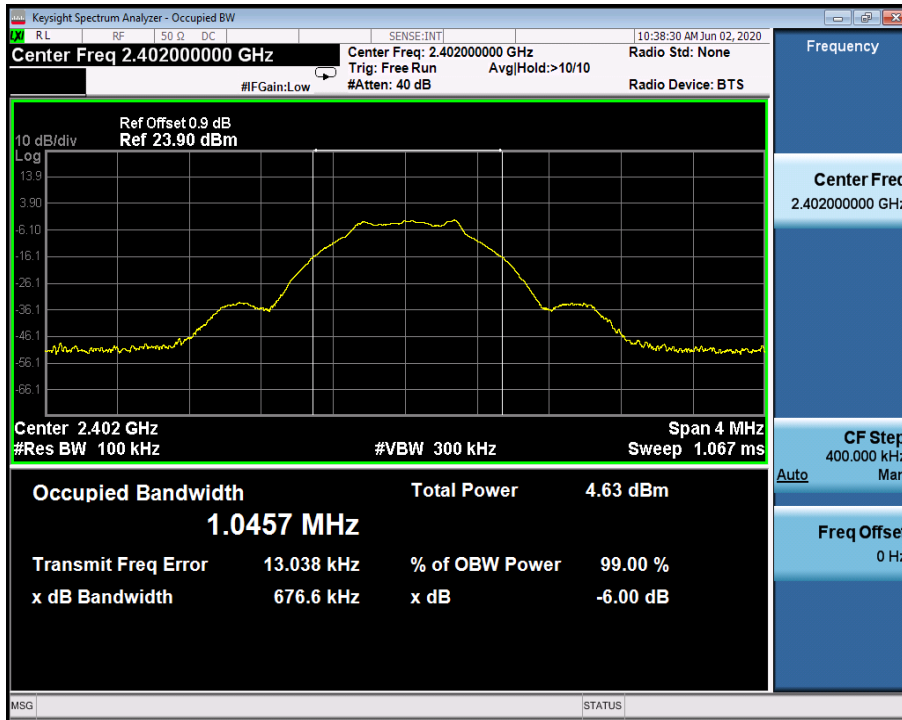


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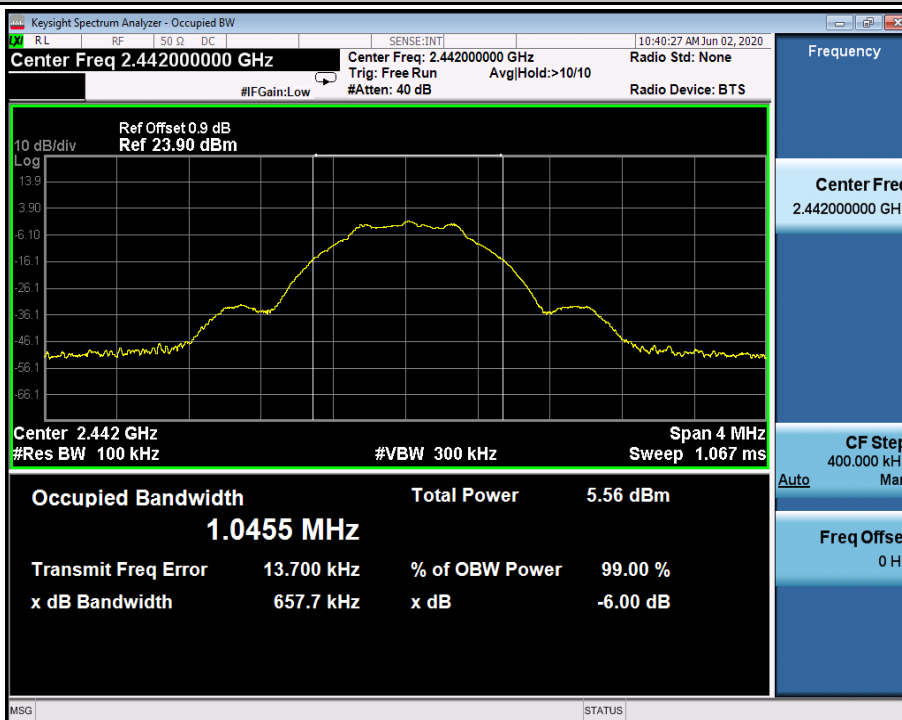
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TEST PLOT

6dB Bandwidth_BLE_2402_Ant1



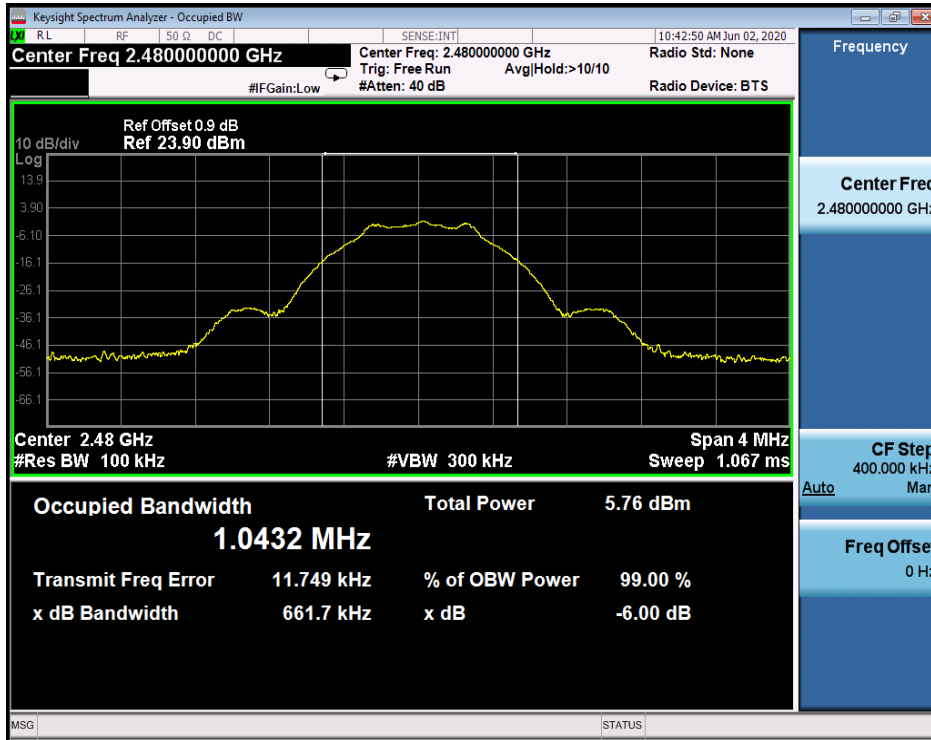
6dB Bandwidth_BLE_2442_Ant1



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6dB Bandwidth_BLE_2480_Ant1



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2. Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-1.999	30	PASS
BLE	2442	Ant1	-0.764	30	PASS
BLE	2480	Ant1	-0.194	30	PASS

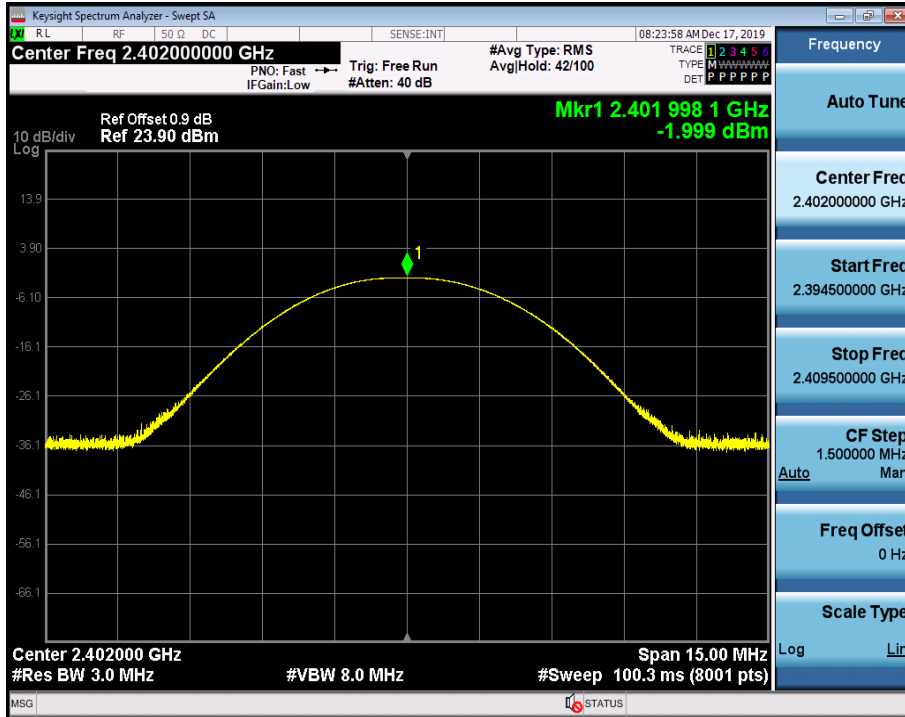


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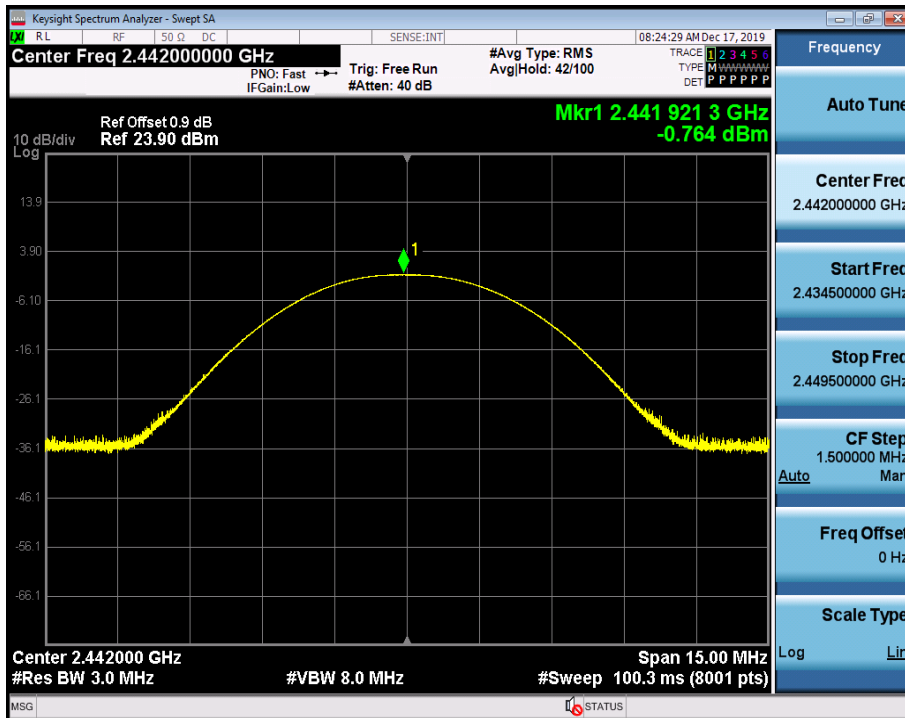
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Maximum peak conducted output power_BLE_2402_Ant1



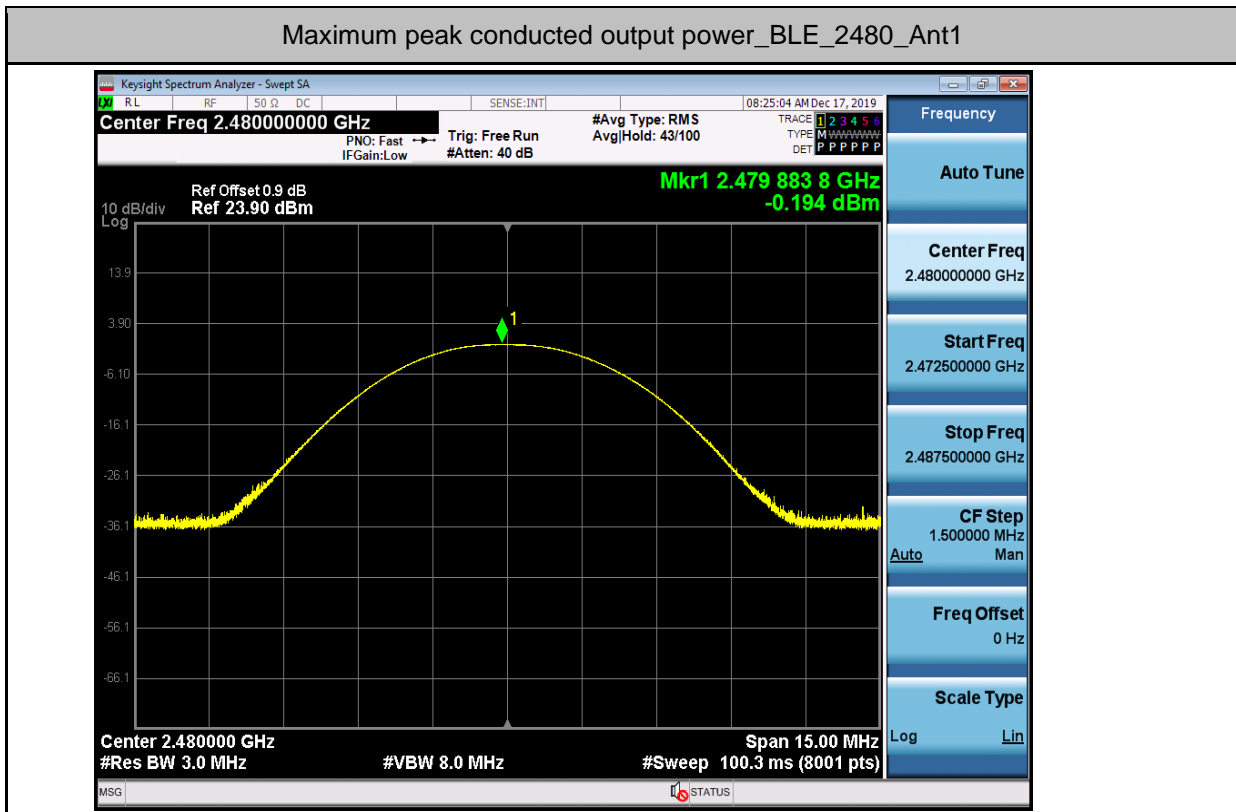
Maximum peak conducted output power_BLE_2442_Ant1



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Maximum peak conducted output power_BLE_2480_Ant1

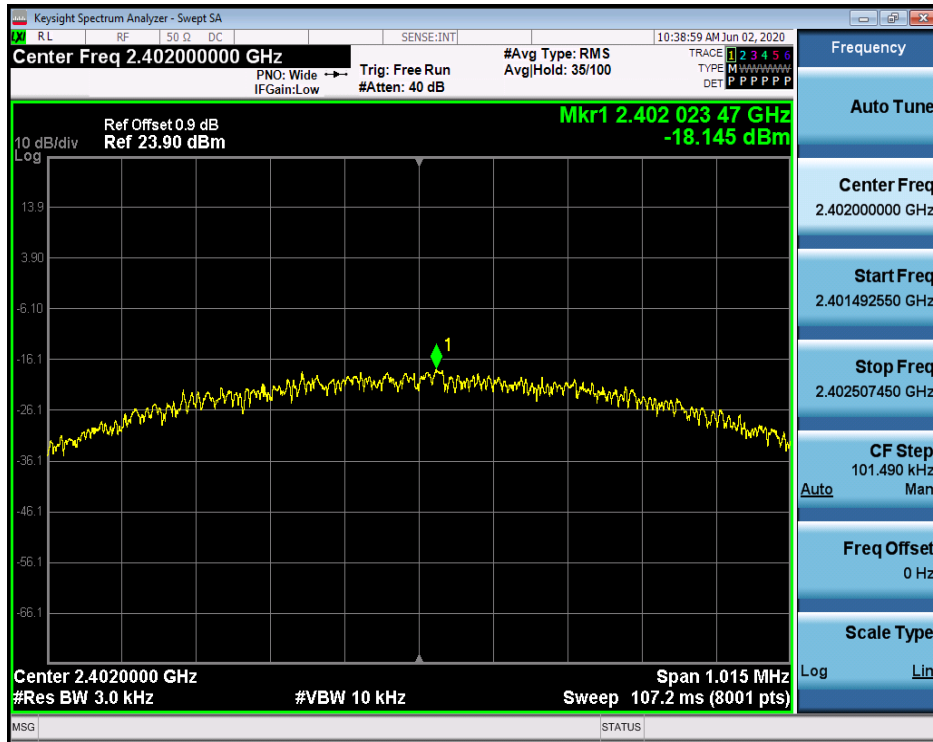


3.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-18.145	8.00	PASS
BLE	2442	Ant1	-16.407	8.00	PASS
BLE	2480	Ant1	-16.295	8.00	PASS

TEST PLOT

Maximum Peak power spectral density_BLE_2402_Ant1



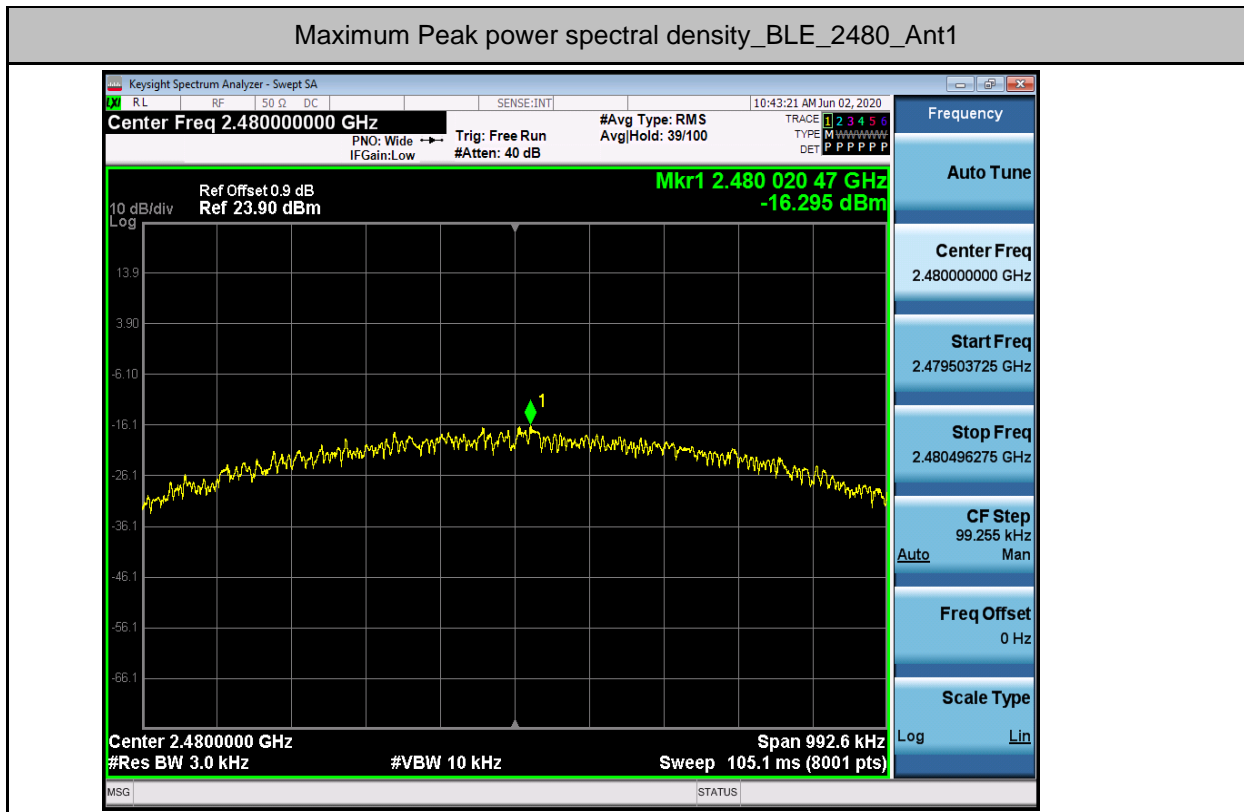
Maximum Peak power spectral density_BLE_2442_Ant1



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Maximum Peak power spectral density_BLE_2480_Ant1



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	-2.109	-48.988	-22.11	PASS
BLE	2480	Ant1	-0.753	-48.599	-20.75	PASS

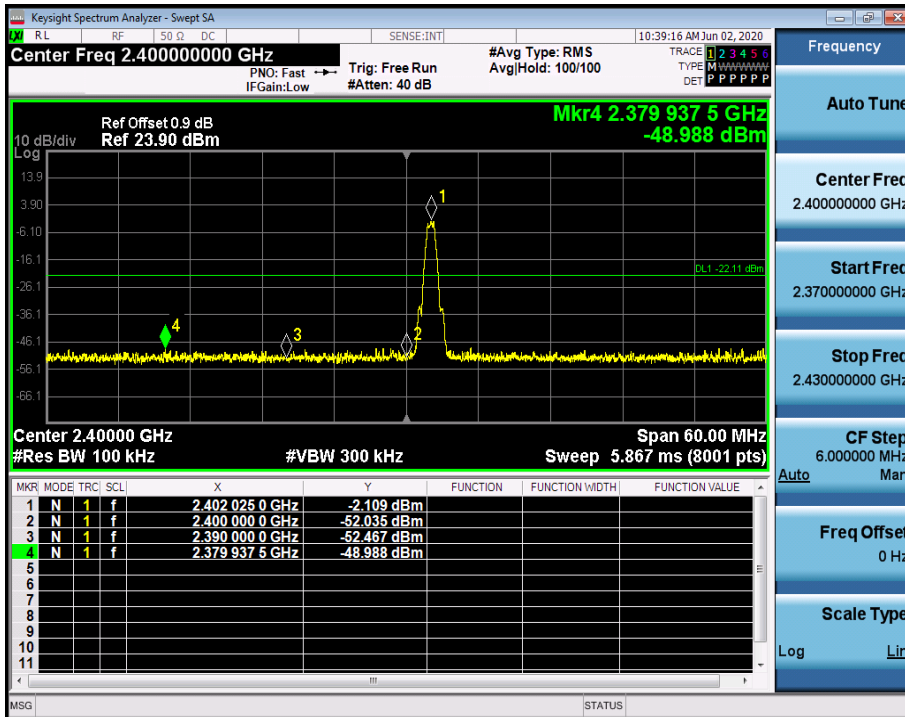


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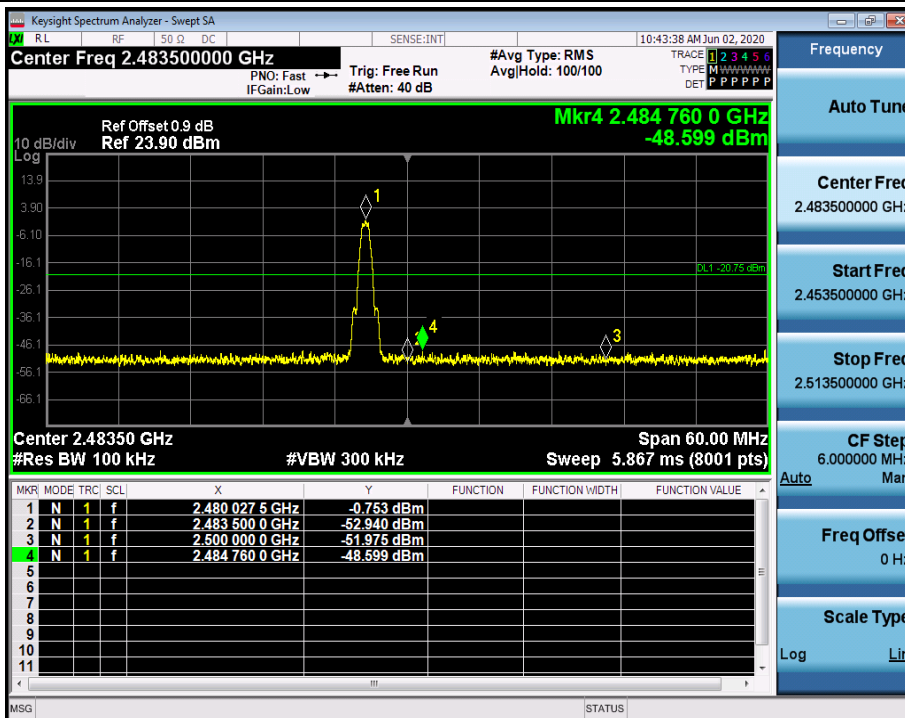
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TEST PLOT

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	-2.021	-49.439	<-22.021	PASS
BLE	2402	Ant1	10000	26000	100	300	-2.021	-51.564	<-22.021	PASS
BLE	2442	Ant1	30	10000	100	300	-0.998	-49.542	<-20.998	PASS
BLE	2442	Ant1	10000	26000	100	300	-0.998	-52.108	<-20.998	PASS
BLE	2480	Ant1	30	10000	100	300	-1.005	-50.704	<-21.005	PASS
BLE	2480	Ant1	10000	26000	100	300	-1.005	-51.926	<-21.005	PASS



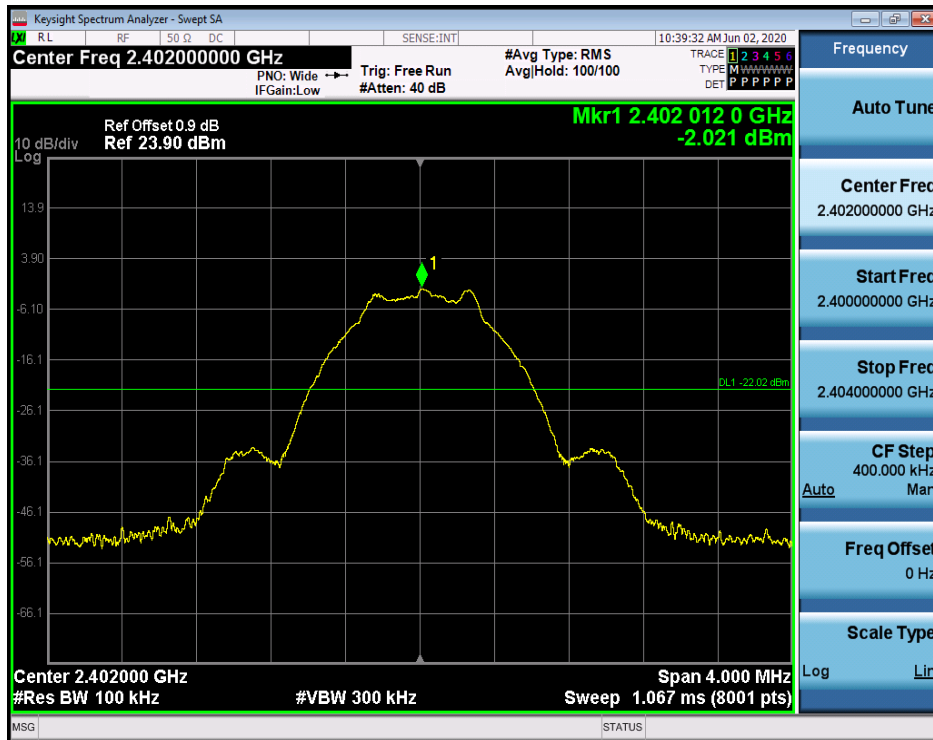
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RF Conducted Spurious Emissions_BLE_2402_Ant1

Pref



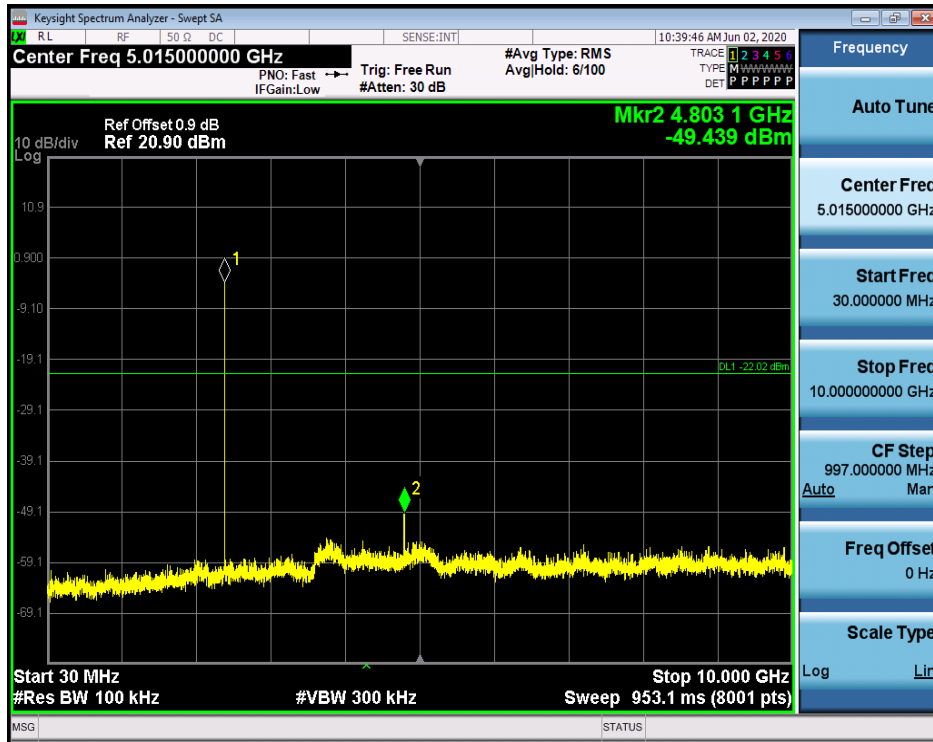
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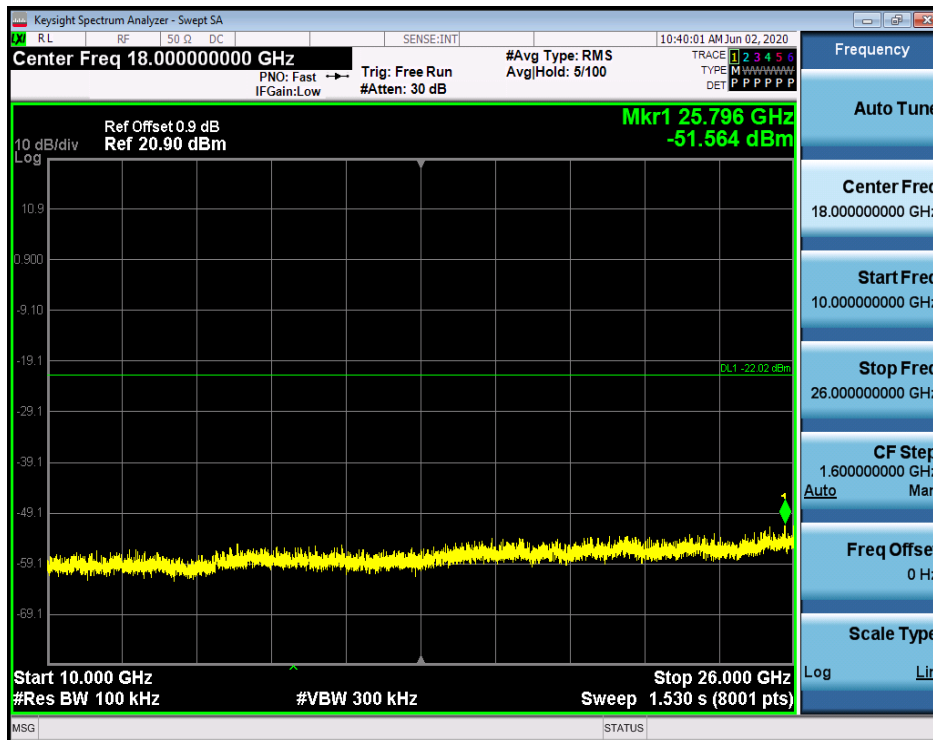
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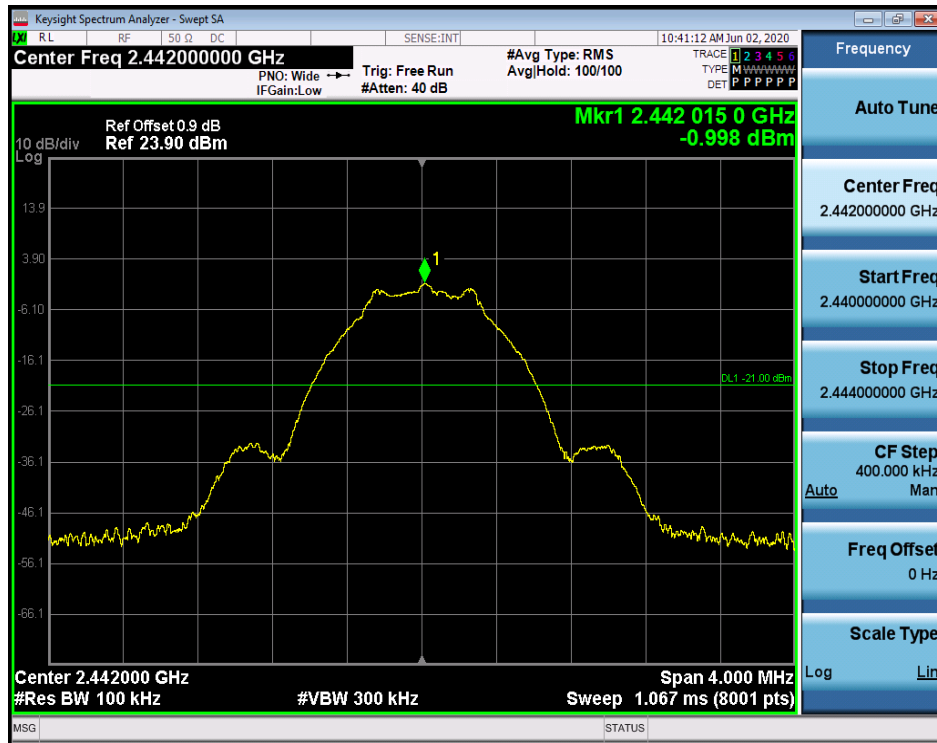


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RF Conducted Spurious Emissions_BLE_2442_Ant1

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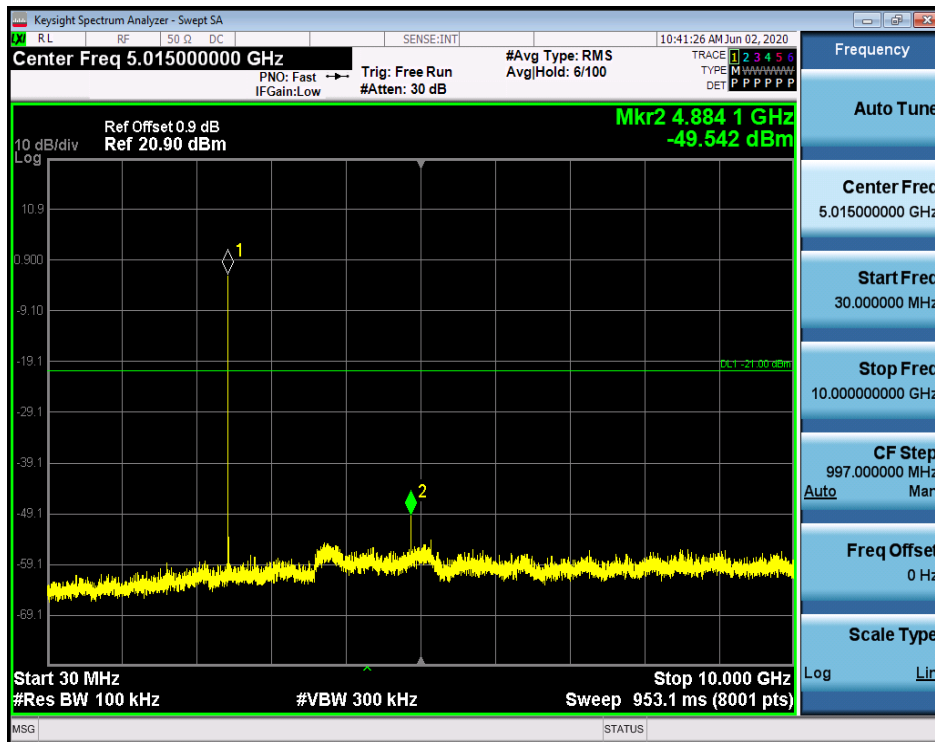


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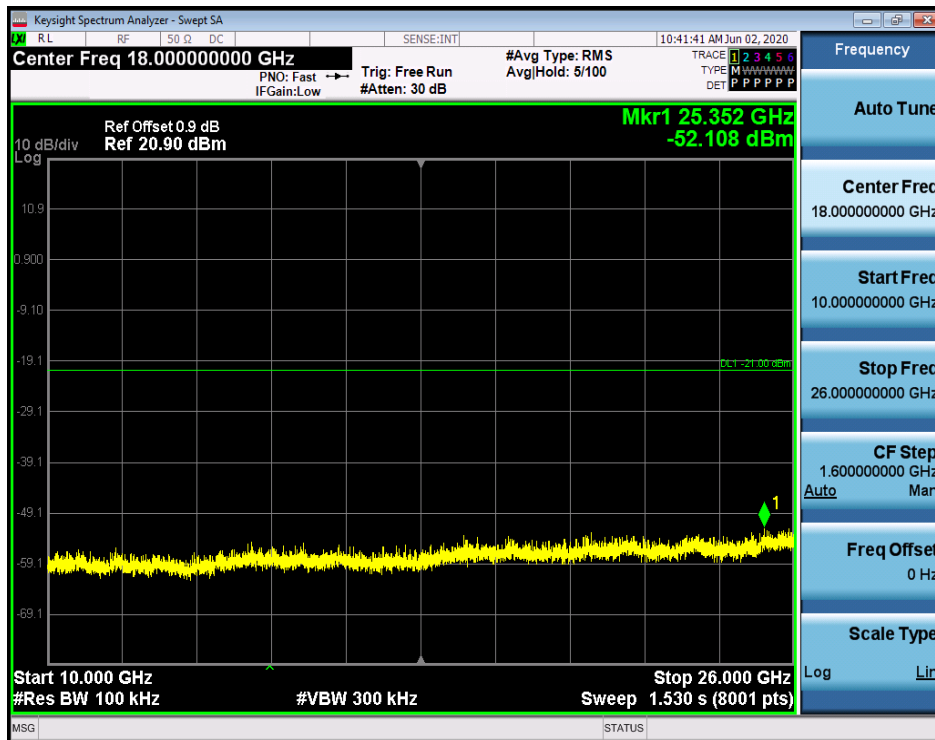
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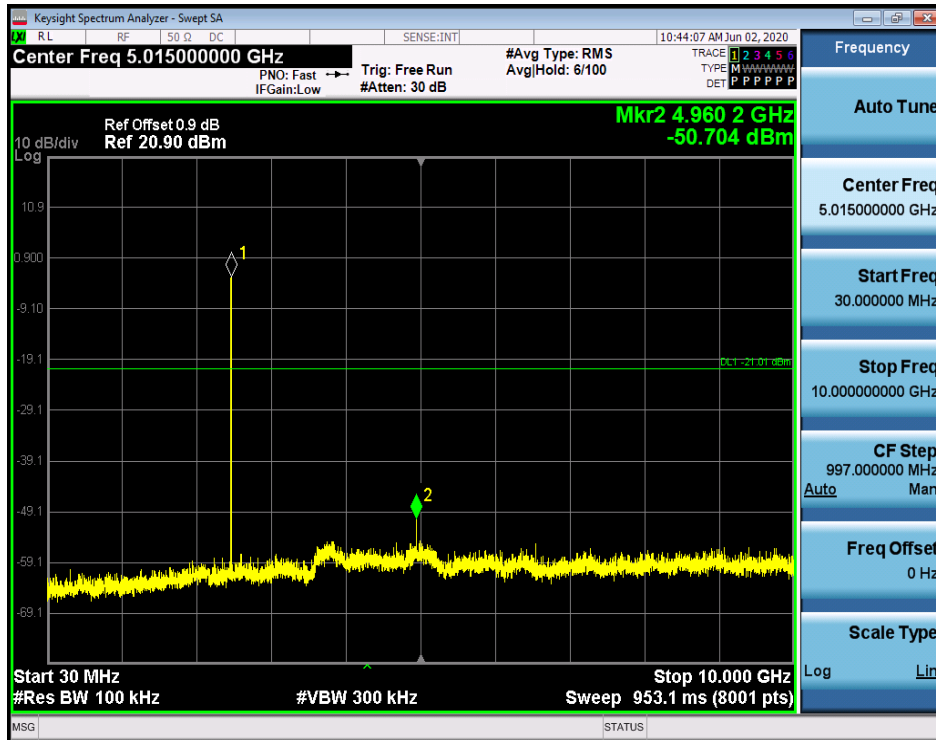
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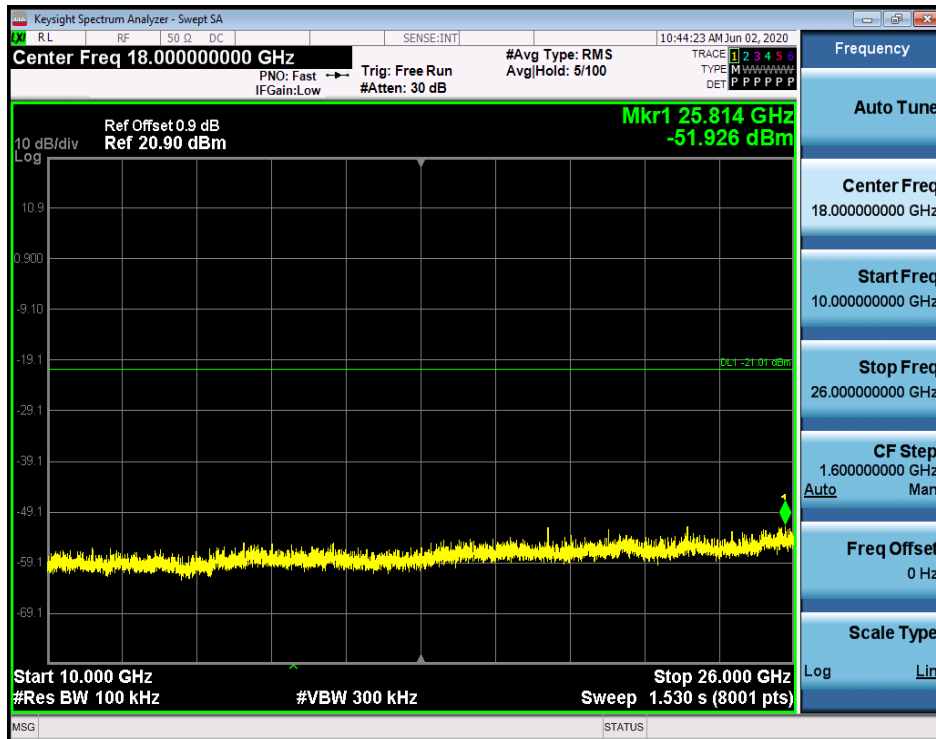
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