



198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technological  
 Development District, Guangzhou, China 510663  
 Telephone: +86 (0) 20 82155555  
 Fax: +86 (0) 20 82075059  
 Email: ee.guangzhou@sgs.com

Report No.: GZEM191001627502  
 Page: 1 of 41

## TEST REPORT

**Application No.:** GZEM1910016275CR  
**Applicant:** Guangdong Transtek Medical Electronics Co., Ltd.  
**Address of Applicant:** Zone A, No.105 ,Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China  
**Manufacturer:** Guangdong Transtek Medical Electronics Co., Ltd.  
**Address of Manufacturer:** Zone A, No.105 ,Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China  
**Factory:** Guangdong Transtek Medical Electronics Co., Ltd.  
**Address of Factory:** Zone B, No.105 ,Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Activity Tracker  
**Model No.:** LS431-B, M5, 21200<sup>□</sup>  
<sup>□</sup> Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** TRANSTEK  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2019-10-11  
**Date of Test:** 2019-10-15 to 2019-10-29  
**Date of Issue:** 2019-11-06

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.

*Kobe Jian*

Kobe Jian

EMC Laboratory Manager

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



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-11-06		Original

<b>Authorized for issue by:</b>			
<b>Tested By</b>			2019-10-15 to 2019-10-29
	<b>Curry_Wu /Project Engineer</b>		<b>Date</b>
<b>Checked By</b>			2019-11-06
	<b>Ricky_Liu /Reviewer</b>		<b>Date</b>



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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

### ⌘ Declaration of EUT Family Grouping:

Model No.: LS431-B, M5, 21200

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Besides, all models are with two battery packs (351225 & SL351225), since the RF parameters are the same, only one model LS431-B with battery packs 351225 was tested in this report.



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## 4 General Information

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

Power Supply:	DC 3.7V (internal rechargeable battery) for working DC 5V for charging
Test Voltage:	AC 120V 60Hz & DC 3.7V
Cable:	N/A
Antenna Gain:	4dBi
Antenna Type:	Integral antenna
Channel Spacing:	2MHz
Modulation Type:	GFSK
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
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	$\pm 3\%$

### 4.4 Test Location

All tests were performed at:

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

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.5 Test Facility

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

● **NVLAP (Lab Code: 200611-0)**

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

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

● **ACMA**

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

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

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

● **CNAS (Lab Code: L0167)**

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

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

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

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

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

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

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

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

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

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

● **CBTL (Lab Code: TL129)**

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



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**4.6 Deviation from Standards**

None

**4.7 Abnormalities from Standard Conditions**

None



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## 5 Equipment List

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

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

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

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2019-02-24	2020-02-23
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	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	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01



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

<b>Radiated Emissions which fall in the restricted bands</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
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	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	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	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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<b>Radiated Spurious Emissions</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
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	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	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	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
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

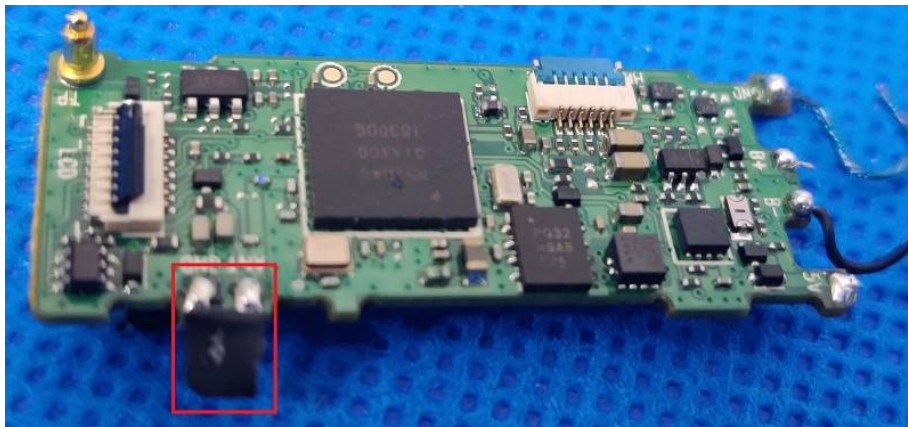
Standard Requirement:

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 4dBi.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Minimum 6dB Bandwidth

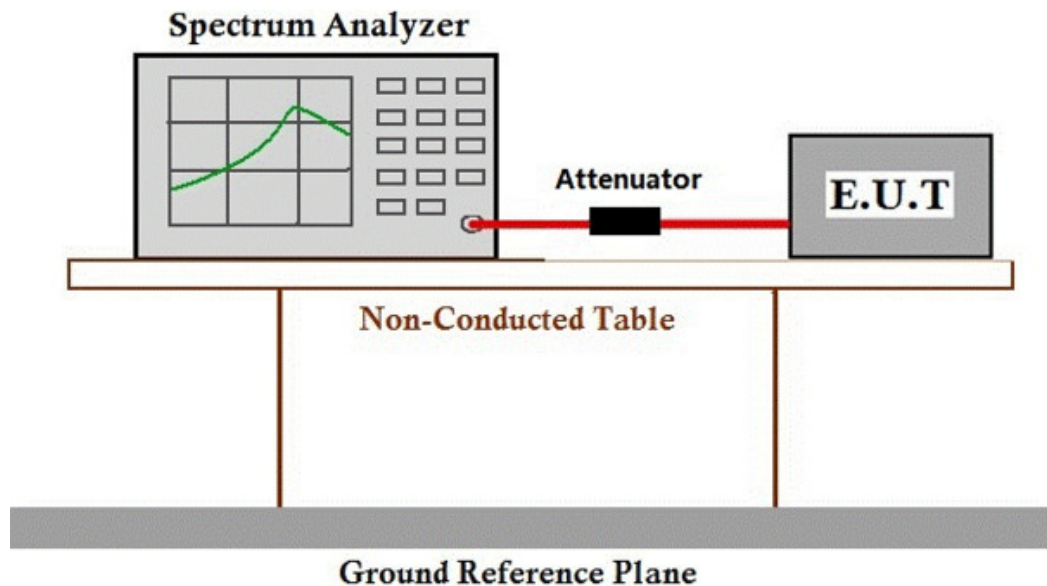
Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)  
 Test Method: ANSI C63.10 (2013) Section 11.8.1  
 Limit:  $\geq 500$  kHz

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49.7 % RH Atmospheric Pressure: 1020 mbar  
 Test mode b: 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 $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ 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

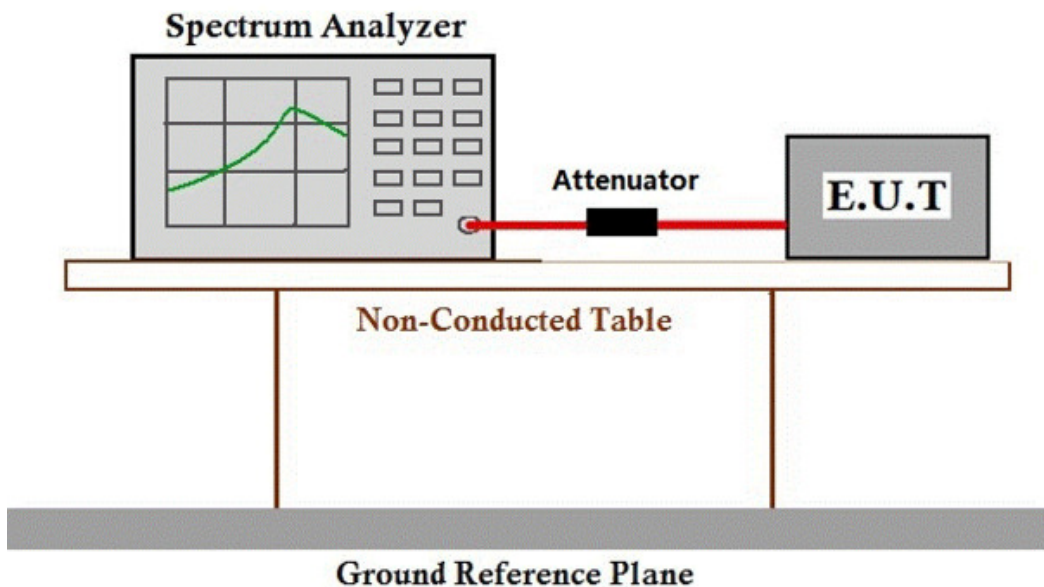
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49.7 % RH Atmospheric Pressure: 1020 mbar

Test mode b: TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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

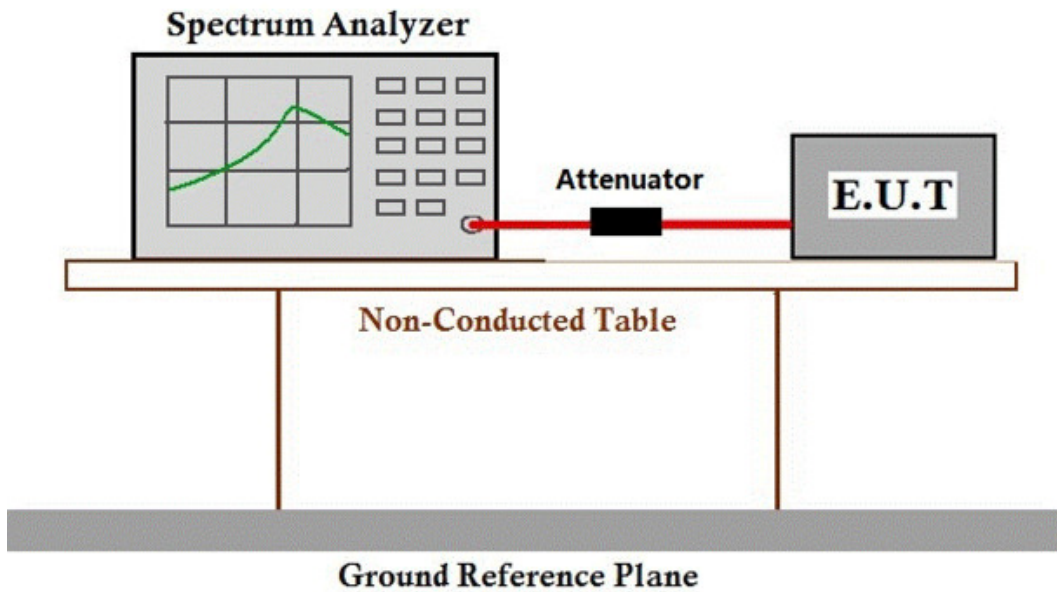
**7.3 Power Spectrum Density**

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)  
 Test Method: ANSI C63.10 (2013) Section 11.10.2  
 Limit: ≤8dBm in any 3 kHz band during any time interval of continuous transmission

**7.3.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 25 °C Humidity: 49.7 % RH Atmospheric Pressure: 1020 mbar  
 Test mode b: TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

**7.3.2 Test Setup Diagram**



**7.3.3 Measurement Procedure and Data**

The detailed test data see: Appendix 15.247



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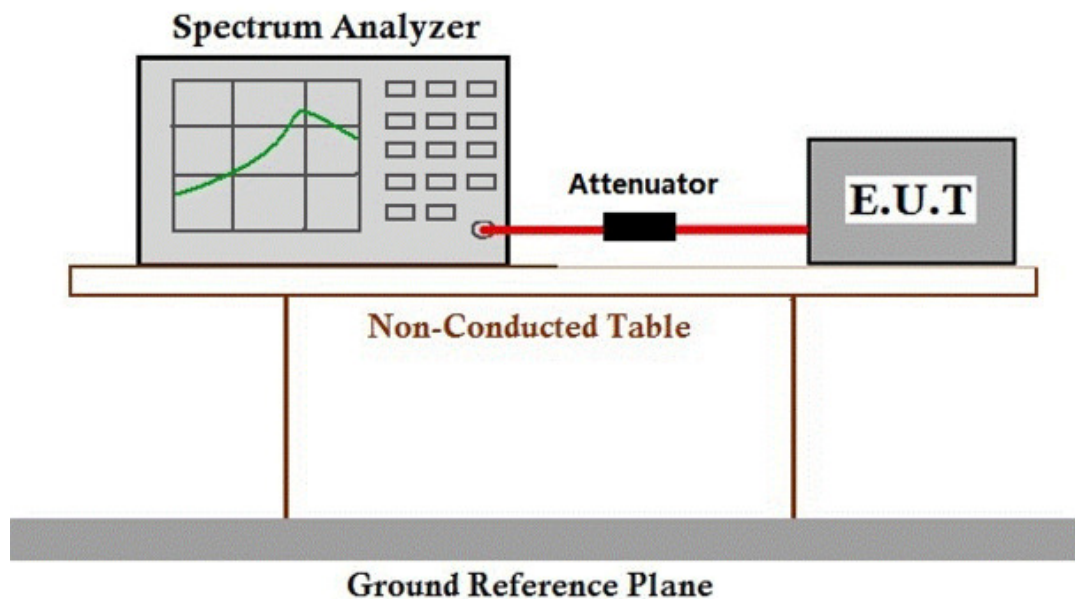
### 7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
 Test Method: ANSI C63.10 (2013) Section 11.13.3.2  
 Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

#### 7.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 25 °C Humidity: 49.6 % RH Atmospheric Pressure: 1020 mbar  
 Test mode b: TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.4.2 Test Setup Diagram



#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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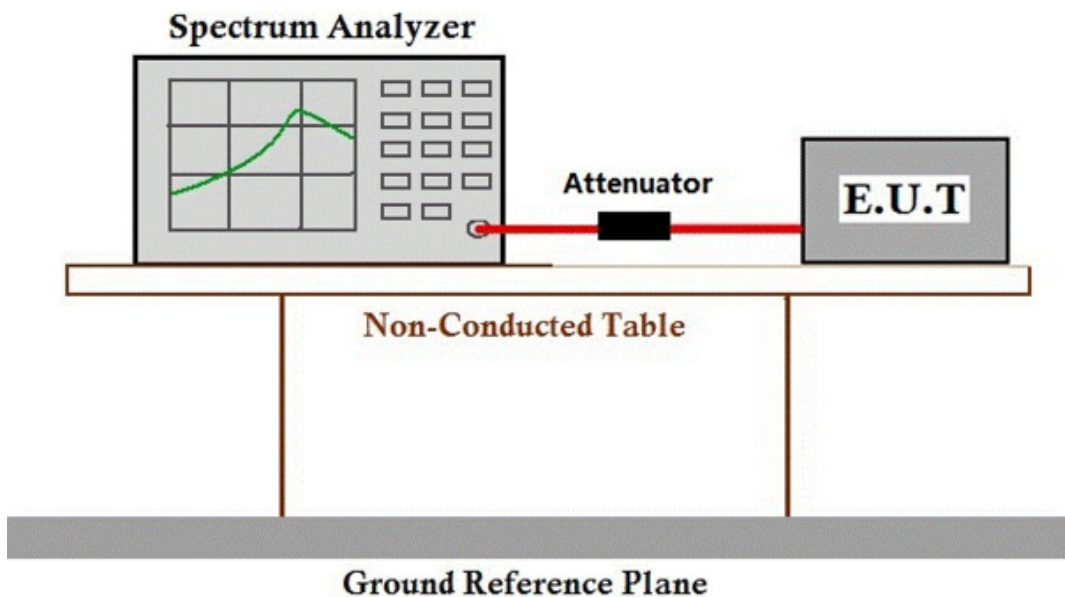
**7.5 Conducted Spurious Emissions**

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
 Test Method: ANSI C63.10 (2013) Section 11.11  
 Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

**7.5.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 25 °C Humidity: 49.7 % RH Atmospheric Pressure: 1020 mbar  
 Test mode b: 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.

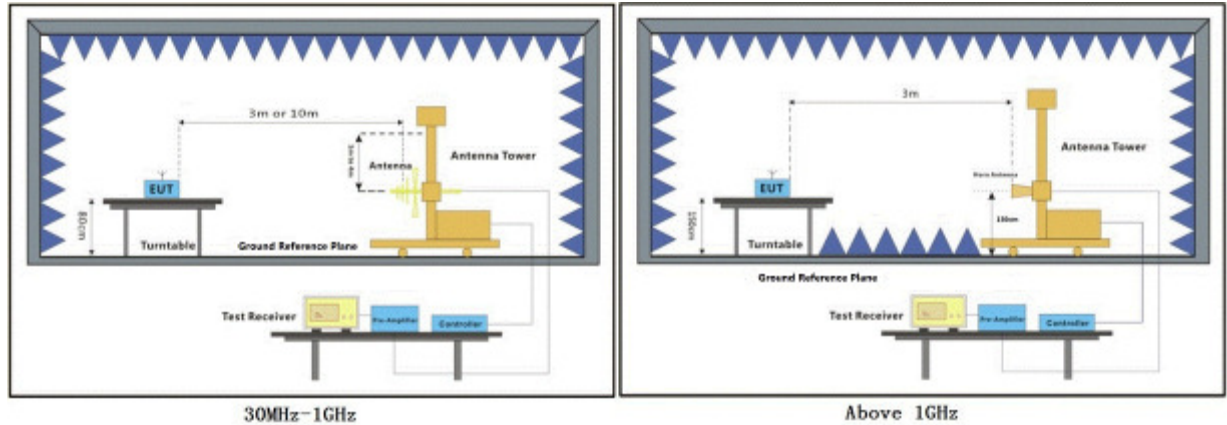
**7.6.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.6 °C Humidity: 55.3 % RH Atmospheric Pressure: 1020 mbar

Test mode b: 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:b; Polarization:Horizontal; Modulation:GFSK; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.27	26.25	3.32	37.44	26.40	54.00	-27.60	HORIZONTAL Average
2	2310.000	44.39	26.25	3.32	37.44	36.52	74.00	-37.48	HORIZONTAL Peak
3	2390.000	32.67	26.43	3.48	37.42	25.16	54.00	-28.84	HORIZONTAL Average
4	2390.000	44.27	26.43	3.48	37.42	36.76	74.00	-37.24	HORIZONTAL Peak
5	2483.500	33.17	26.58	3.53	37.40	25.88	54.00	-28.12	HORIZONTAL Average
6	2483.500	45.20	26.58	3.53	37.40	37.91	74.00	-36.09	HORIZONTAL Peak
7	2500.000	30.38	26.60	3.40	37.39	22.99	54.00	-31.01	HORIZONTAL Average
8	2500.000	44.49	26.60	3.40	37.39	37.10	74.00	-36.90	HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.43	26.25	3.32	37.44	25.56	54.00	-28.44	VERTICAL Average
2	2310.000	44.77	26.25	3.32	37.44	36.90	74.00	-37.10	VERTICAL Peak
3	2390.000	32.25	26.43	3.48	37.42	24.74	54.00	-29.26	VERTICAL Average
4	2390.000	45.32	26.43	3.48	37.42	37.81	74.00	-36.19	VERTICAL Peak
5	2483.500	33.23	26.58	3.53	37.40	25.94	54.00	-28.06	VERTICAL Average
6	2483.500	44.98	26.58	3.53	37.40	37.69	74.00	-36.31	VERTICAL Peak
7	2500.000	32.45	26.60	3.40	37.39	25.06	54.00	-28.94	VERTICAL Average
8	2500.000	45.33	26.60	3.40	37.39	37.94	74.00	-36.06	VERTICAL Peak



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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.51	26.25	3.32	37.44	25.64	54.00	-28.36	HORIZONTAL Average
2	2310.000	45.16	26.25	3.32	37.44	37.29	74.00	-36.71	HORIZONTAL Peak
3	2390.000	33.10	26.43	3.48	37.42	25.59	54.00	-28.41	HORIZONTAL Average
4	2390.000	44.54	26.43	3.48	37.42	37.03	74.00	-36.97	HORIZONTAL Peak
5	2483.500	44.93	26.58	3.53	37.40	37.64	54.00	-16.36	HORIZONTAL Average
6	2483.500	58.75	26.58	3.53	37.40	51.46	74.00	-22.54	HORIZONTAL Peak
7	2500.000	34.90	26.60	3.40	37.39	27.51	54.00	-26.49	HORIZONTAL Average
8	2500.000	45.32	26.60	3.40	37.39	37.93	74.00	-36.07	HORIZONTAL Peak

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

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	31.20	26.25	3.32	37.44	23.33	54.00	-30.67	VERTICAL Average
2	2310.000	44.37	26.25	3.32	37.44	36.50	74.00	-37.50	VERTICAL Peak
3	2390.000	32.46	26.43	3.48	37.42	24.95	54.00	-29.05	VERTICAL Average
4	2390.000	45.07	26.43	3.48	37.42	37.56	74.00	-36.44	VERTICAL Peak
5	2483.500	41.20	26.58	3.53	37.40	33.91	54.00	-20.09	VERTICAL Average
6	2483.500	54.33	26.58	3.53	37.40	47.04	74.00	-26.96	VERTICAL Peak
7	2500.000	35.46	26.60	3.40	37.39	28.07	54.00	-25.93	VERTICAL Average
8	2500.000	45.03	26.60	3.40	37.39	37.64	74.00	-36.36	VERTICAL Peak



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### 7.7 Radiated Spurious Emissions

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

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

Measurement Distance: 3m

Limit:

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

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

#### 7.7.1 E.U.T. Operation

Operating Environment:

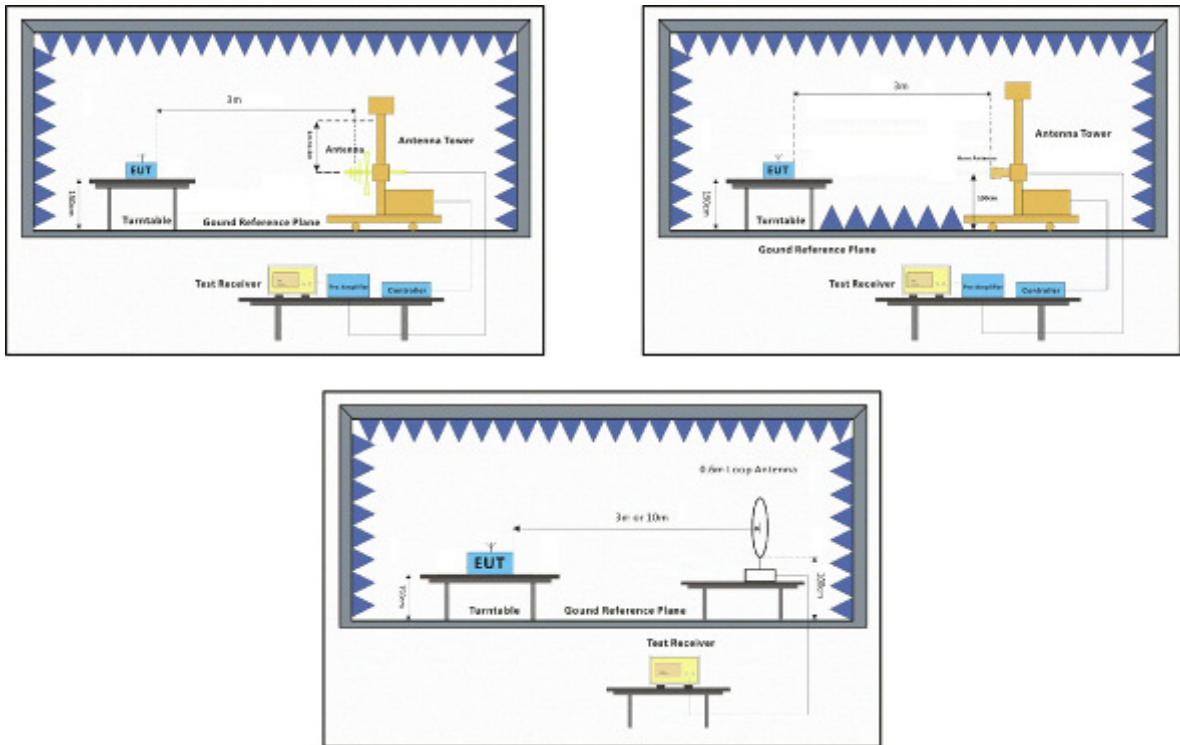
Temperature: 23.6 °C Humidity: 55.3 % RH Atmospheric Pressure: 1020 mbar

Test mode b: 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



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

	Freq	ReadAntenna 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	50.409	23.87	13.91	1.20	27.17	11.81	40.00	-28.19	HORIZONTAL	QP
2	62.213	24.56	13.08	1.31	27.16	11.79	40.00	-28.21	HORIZONTAL	QP
3	146.888	24.07	13.70	2.03	26.90	12.90	43.50	-30.60	HORIZONTAL	QP
4	394.855	24.21	15.60	3.82	27.89	15.74	46.00	-30.26	HORIZONTAL	QP
5	550.948	25.39	18.70	4.50	28.06	20.53	46.00	-25.47	HORIZONTAL	QP
6	900.147	27.39	23.30	6.25	27.95	28.99	46.00	-17.01	HORIZONTAL	QP

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

	Freq	ReadAntenna 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	3186.869	36.05	27.90	3.99	37.01	30.93	54.00	-23.07	HORIZONTAL	Average
2	3186.869	45.59	27.90	3.99	37.01	40.47	74.00	-33.53	HORIZONTAL	Peak
3	4062.629	34.72	29.55	4.60	36.90	31.97	54.00	-22.03	HORIZONTAL	Average
4	4062.629	44.63	29.55	4.60	36.90	41.88	74.00	-32.12	HORIZONTAL	Peak
5	4804.274	34.27	30.79	5.40	36.94	33.52	54.00	-20.48	HORIZONTAL	Average
6	4804.274	44.43	30.79	5.40	36.94	43.68	74.00	-30.32	HORIZONTAL	Peak
7	7206.942	35.02	35.45	5.98	36.93	39.52	54.00	-14.48	HORIZONTAL	Average
8	7206.942	45.31	35.45	5.98	36.93	49.81	74.00	-24.19	HORIZONTAL	Peak
9	9608.684	34.69	37.51	7.07	37.08	42.19	54.00	-11.81	HORIZONTAL	Average
10	9608.684	44.09	37.51	7.07	37.08	51.59	74.00	-22.41	HORIZONTAL	Peak
11	12010.850	32.84	39.50	8.19	37.18	43.35	54.00	-10.65	HORIZONTAL	Average
12	12010.850	42.32	39.50	8.19	37.18	52.83	74.00	-21.17	HORIZONTAL	Peak



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

	Freq	ReadAntenna 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	54.835	24.40	13.76	1.27	27.17	12.26	40.00	-27.74	VERTICAL	QP
2	171.393	24.11	13.03	2.25	26.82	12.57	43.50	-30.93	VERTICAL	QP
3	331.355	25.89	14.50	3.02	27.62	15.79	46.00	-30.21	VERTICAL	QP
4	495.934	25.15	17.90	4.03	28.05	19.03	46.00	-26.97	VERTICAL	QP
5	665.804	26.51	20.65	4.90	28.10	23.96	46.00	-22.04	VERTICAL	QP
6	919.287	25.70	23.60	6.63	27.90	28.03	46.00	-17.97	VERTICAL	QP

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

	Freq	ReadAntenna 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	2905.331	40.20	27.76	3.71	37.13	34.54	54.00	-19.46	VERTICAL	Average
2	2905.331	47.48	27.76	3.71	37.13	41.82	74.00	-32.18	VERTICAL	Peak
3	3958.309	36.94	29.42	4.60	36.90	34.06	54.00	-19.94	VERTICAL	Average
4	3958.309	46.31	29.42	4.60	36.90	43.43	74.00	-30.57	VERTICAL	Peak
5	4804.041	37.42	30.79	5.40	36.94	36.67	54.00	-17.33	VERTICAL	Average
6	4804.041	45.94	30.79	5.40	36.94	45.19	74.00	-28.81	VERTICAL	Peak
7	7206.474	35.02	35.45	5.98	36.93	39.52	54.00	-14.48	VERTICAL	Average
8	7206.474	44.70	35.45	5.98	36.93	49.20	74.00	-24.80	VERTICAL	Peak
9	9608.525	34.11	37.51	7.07	37.08	41.61	54.00	-12.39	VERTICAL	Average
10	9608.525	44.49	37.51	7.07	37.08	51.99	74.00	-22.01	VERTICAL	Peak
11	12010.130	32.03	39.50	8.19	37.18	42.54	54.00	-11.46	VERTICAL	Average
12	12010.130	43.79	39.50	8.19	37.18	54.30	74.00	-19.70	VERTICAL	Peak



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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV dB/m	dB dB	dBuV/m	dBuV/m	dB		
1	2990.531	38.96 27.89	3.79 37.08	33.56	54.00	-20.44	HORIZONTAL	Average
2	2990.531	45.99 27.89	3.79 37.08	40.59	74.00	-33.41	HORIZONTAL	Peak
3	3912.809	34.72 29.32	4.60 36.91	31.73	54.00	-22.27	HORIZONTAL	Average
4	3912.809	44.43 29.32	4.60 36.91	41.44	74.00	-32.56	HORIZONTAL	Peak
5	4884.181	33.21 30.95	5.52 36.95	32.73	54.00	-21.27	HORIZONTAL	Average
6	4884.181	43.83 30.95	5.52 36.95	43.35	74.00	-30.65	HORIZONTAL	Peak
7	7326.052	34.72 35.74	6.13 36.92	39.67	54.00	-14.33	HORIZONTAL	Average
8	7326.052	44.10 35.74	6.13 36.92	49.05	74.00	-24.95	HORIZONTAL	Peak
9	9768.018	35.29 37.74	7.01 37.09	42.95	54.00	-11.05	HORIZONTAL	Average
10	9768.018	43.25 37.74	7.01 37.09	50.91	74.00	-23.09	HORIZONTAL	Peak
11	12210.950	33.42 39.21	8.08 37.04	43.67	54.00	-10.33	HORIZONTAL	Average
12	12210.950	43.19 39.21	8.08 37.04	53.44	74.00	-20.56	HORIZONTAL	Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV dB/m	dB dB	dBuV/m	dBuV/m	dB		
1	2973.293	40.21 27.87	3.78 37.09	34.77	54.00	-19.23	VERTICAL	Average
2	2973.293	46.48 27.87	3.78 37.09	41.04	74.00	-32.96	VERTICAL	Peak
3	3495.691	34.58 27.90	4.30 36.95	29.83	54.00	-24.17	VERTICAL	Average
4	3495.691	44.44 27.90	4.30 36.95	39.69	74.00	-34.31	VERTICAL	Peak
5	4884.315	34.97 30.95	5.52 36.95	34.49	54.00	-19.51	VERTICAL	Average
6	4884.315	43.82 30.95	5.52 36.95	43.34	74.00	-30.66	VERTICAL	Peak
7	7326.038	34.15 35.74	6.13 36.92	39.10	54.00	-14.90	VERTICAL	Average
8	7326.038	43.99 35.74	6.13 36.92	48.94	74.00	-25.06	VERTICAL	Peak
9	9768.432	34.52 37.74	7.01 37.09	42.18	54.00	-11.82	VERTICAL	Average
10	9768.432	44.03 37.74	7.01 37.09	51.69	74.00	-22.31	VERTICAL	Peak
11	12210.520	30.29 39.21	8.08 37.04	40.54	54.00	-13.46	VERTICAL	Average
12	12210.520	43.35 39.21	8.08 37.04	53.60	74.00	-20.40	VERTICAL	Peak



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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV dB/m	dB dB	dBuV/m	dBuV/m	dB		
1	3060.486	40.28 27.90	3.85 37.05	34.98	54.00	-19.02	HORIZONTAL	Average
2	3060.486	46.26 27.90	3.85 37.05	40.96	74.00	-33.04	HORIZONTAL	Peak
3	3425.675	34.66 27.90	4.15 36.96	29.75	54.00	-24.25	HORIZONTAL	Average
4	3425.675	44.52 27.90	4.15 36.96	39.61	74.00	-34.39	HORIZONTAL	Peak
5	4960.396	32.51 31.05	5.65 36.96	32.25	54.00	-21.75	HORIZONTAL	Average
6	4960.396	42.13 31.05	5.65 36.96	41.87	74.00	-32.13	HORIZONTAL	Peak
7	7440.833	34.11 35.92	6.22 36.92	39.33	54.00	-14.67	HORIZONTAL	Average
8	7440.833	44.74 35.92	6.22 36.92	49.96	74.00	-24.04	HORIZONTAL	Peak
9	9920.450	35.21 37.92	6.96 37.10	42.99	54.00	-11.01	HORIZONTAL	Average
10	9920.450	44.61 37.92	6.96 37.10	52.39	74.00	-21.61	HORIZONTAL	Peak
11	12400.540	32.64 38.93	7.97 36.92	42.62	54.00	-11.38	HORIZONTAL	Average
12	12400.540	42.52 38.93	7.97 36.92	52.50	74.00	-21.50	HORIZONTAL	Peak

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

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV dB/m	dB dB	dBuV/m	dBuV/m	dB		
1	2990.531	40.18 27.89	3.79 37.08	34.78	54.00	-19.22	VERTICAL	Average
2	2990.531	46.49 27.89	3.79 37.08	41.09	74.00	-32.91	VERTICAL	Peak
3	4181.768	34.61 29.69	4.60 36.91	31.99	54.00	-22.01	VERTICAL	Average
4	4181.768	44.29 29.69	4.60 36.91	41.67	74.00	-32.33	VERTICAL	Peak
5	4960.307	35.82 31.05	5.65 36.96	35.56	54.00	-18.44	VERTICAL	Average
6	4960.307	44.38 31.05	5.65 36.96	44.12	74.00	-29.88	VERTICAL	Peak
7	7440.914	35.02 35.92	6.22 36.92	40.24	54.00	-13.76	VERTICAL	Average
8	7440.914	44.16 35.92	6.22 36.92	49.38	74.00	-24.62	VERTICAL	Peak
9	9920.151	34.69 37.92	6.96 37.10	42.47	54.00	-11.53	VERTICAL	Average
10	9920.151	43.65 37.92	6.96 37.10	51.43	74.00	-22.57	VERTICAL	Peak
11	12400.710	33.96 38.93	7.97 36.92	43.94	54.00	-10.06	VERTICAL	Average
12	12400.710	42.90 38.93	7.97 36.92	52.88	74.00	-21.12	VERTICAL	Peak



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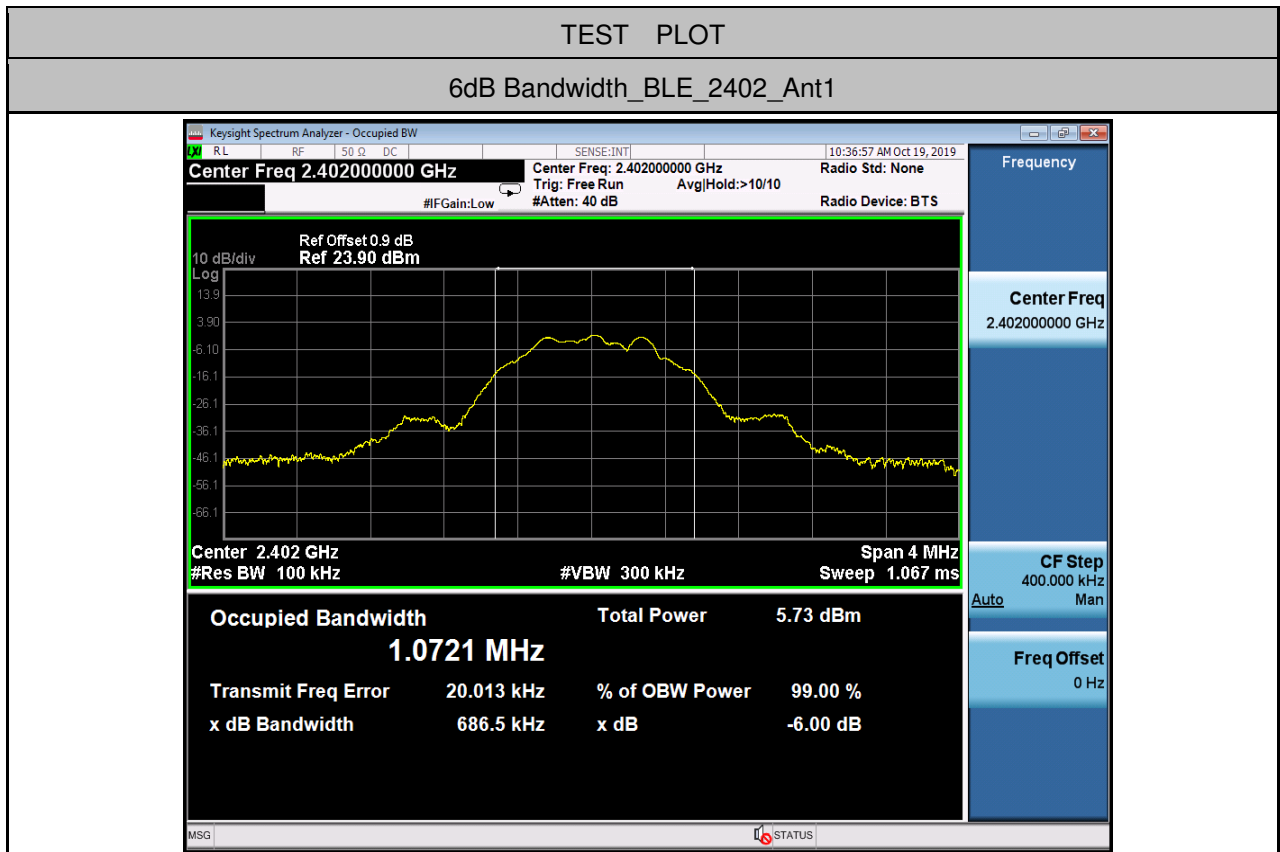


## 8 Appendix

### 8.1 Appendix 15.247

#### 1.6dB Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.0721	0.6865	0.5	PASS
BLE	2442	Ant1	1.0760	0.6911	0.5	PASS
BLE	2480	Ant1	1.0759	0.6904	0.5	PASS



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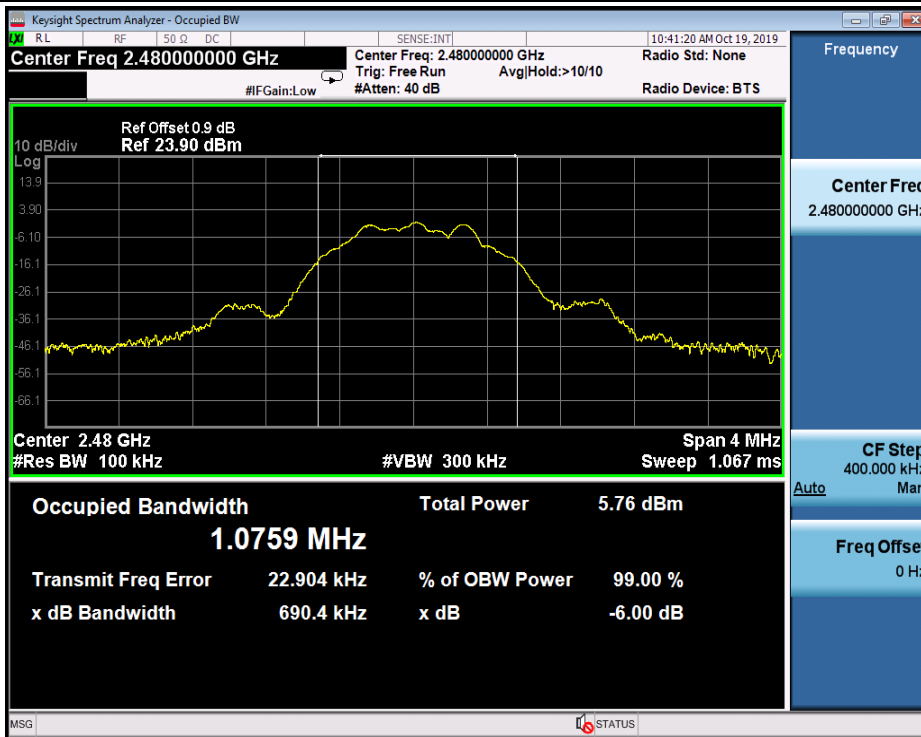
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6dB Bandwidth\_BLE\_2442\_Ant1



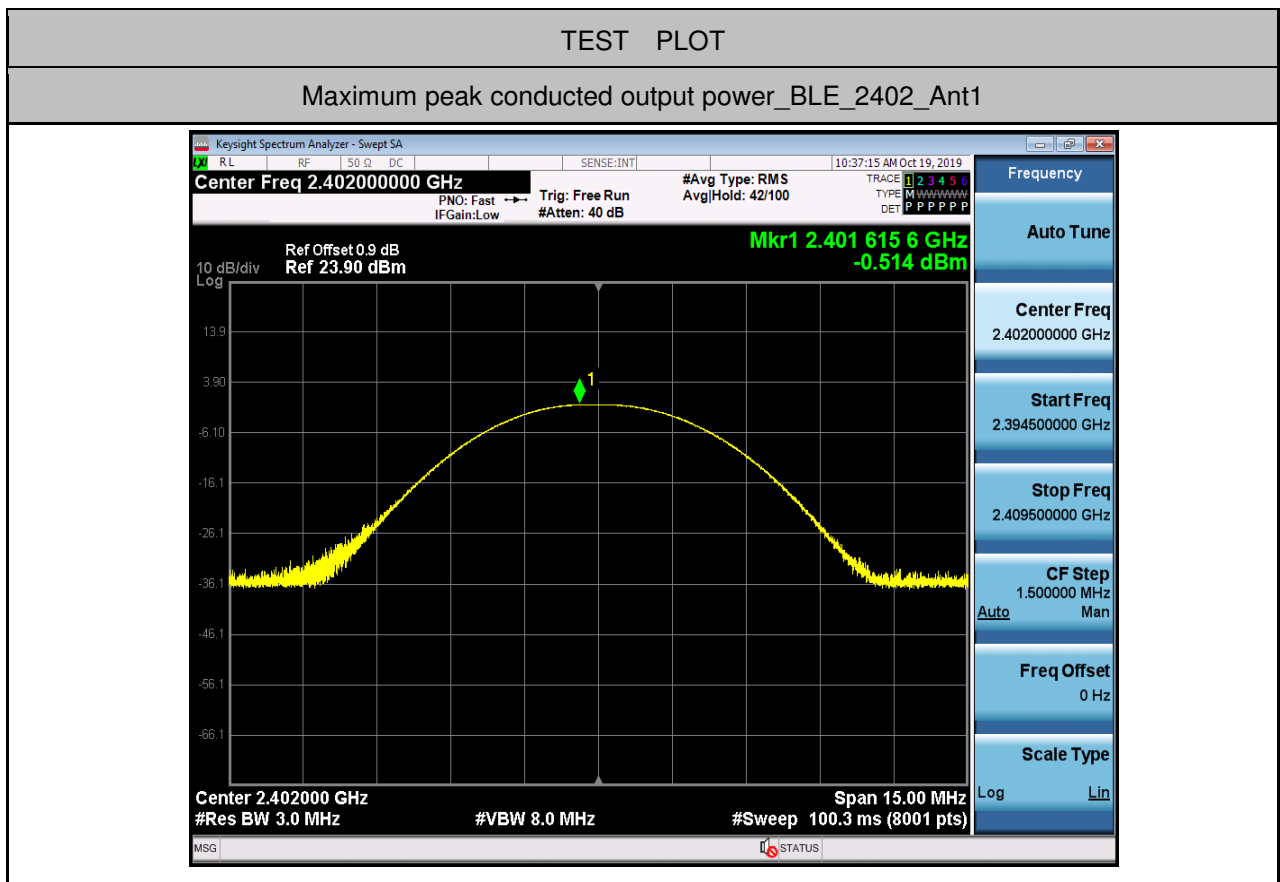
6dB Bandwidth\_BLE\_2480\_Ant1



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**2. Maximum peak conducted output power**

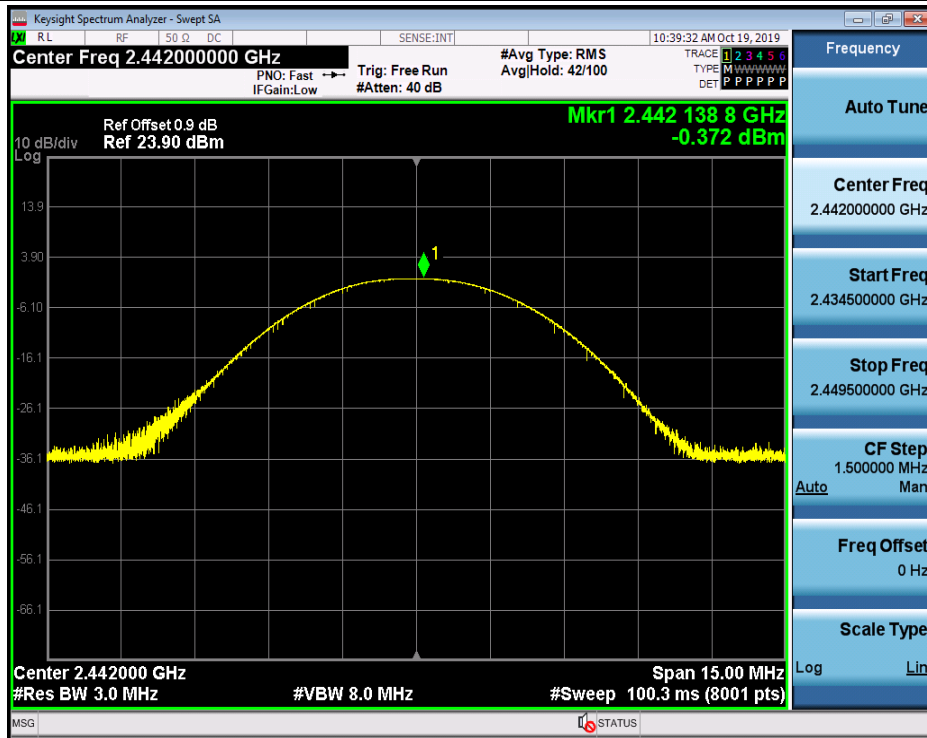
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-0.514	30	PASS
BLE	2442	Ant1	-0.372	30	PASS
BLE	2480	Ant1	-0.514	30	PASS



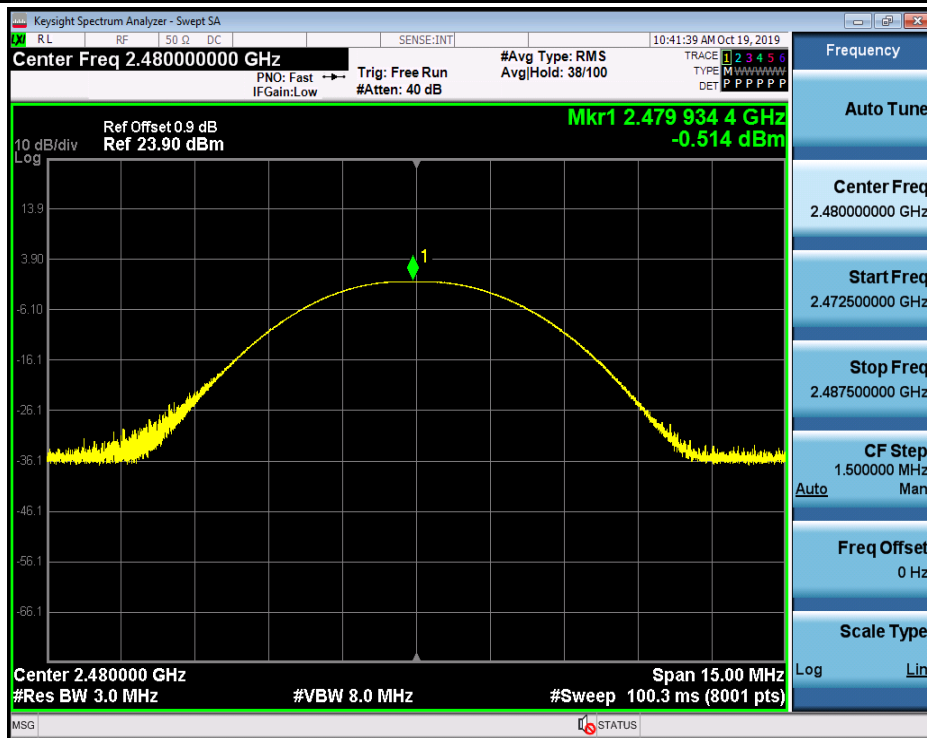
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Maximum peak conducted output power\_BLE\_2442\_Ant1



Maximum peak conducted output power\_BLE\_2480\_Ant1



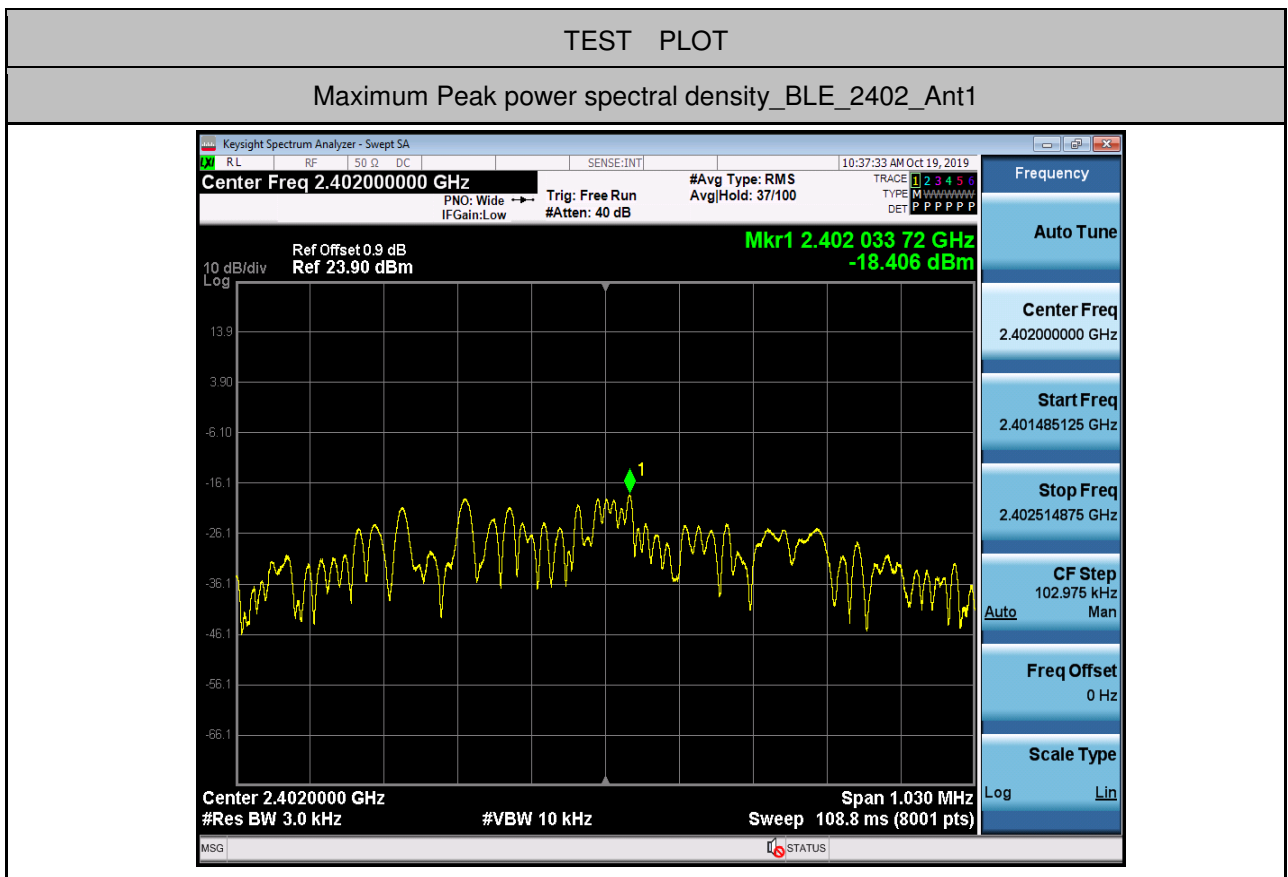
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**3. Maximum Peak power spectral density**

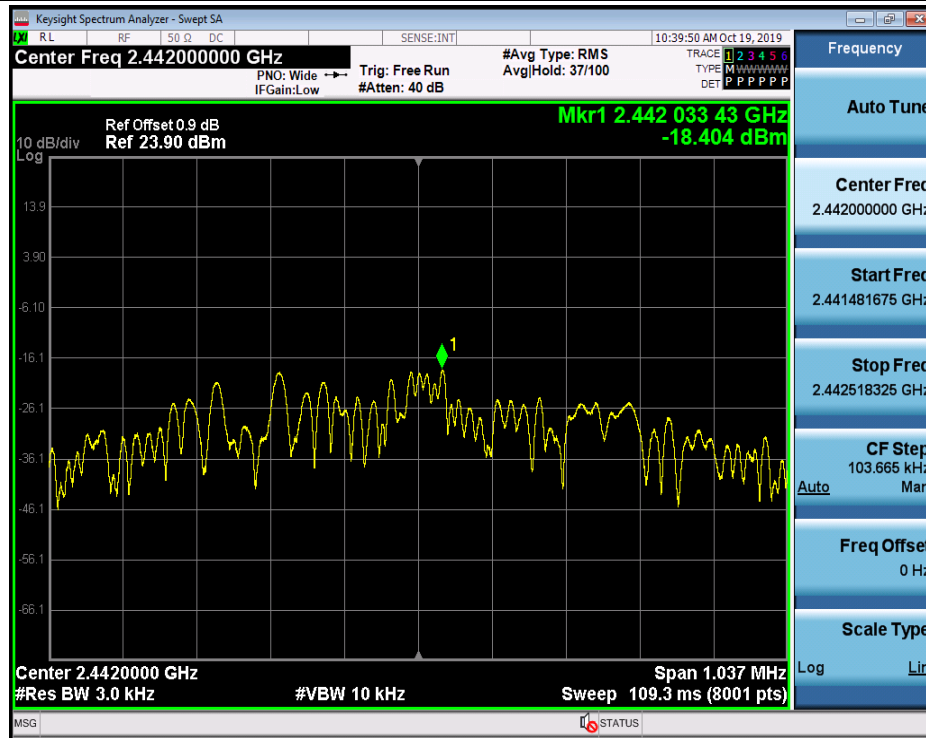
Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-18.406	8.00	PASS
BLE	2442	Ant1	-18.404	8.00	PASS
BLE	2480	Ant1	-18.494	8.00	PASS



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Maximum Peak power spectral density\_BLE\_2442\_Ant1



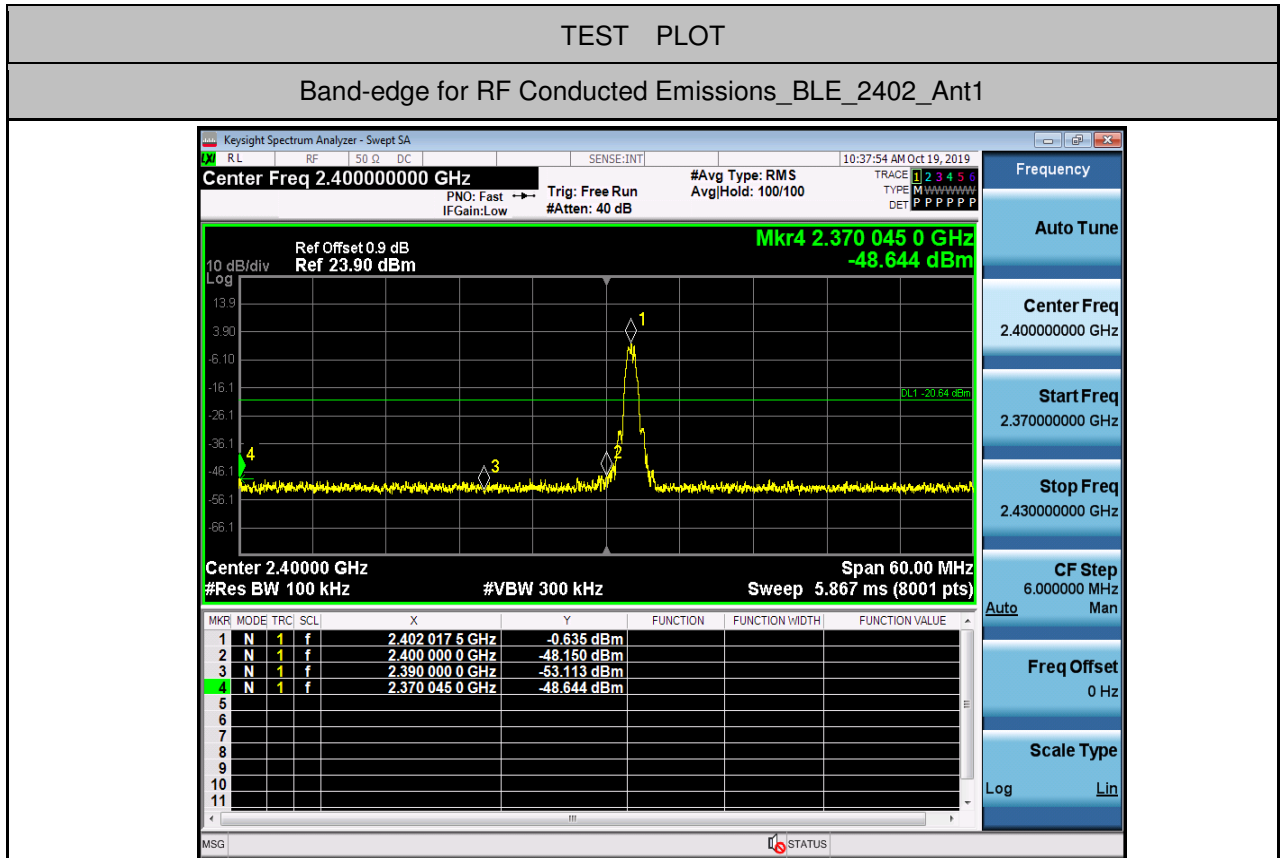
Maximum Peak power spectral density\_BLE\_2480\_Ant1



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

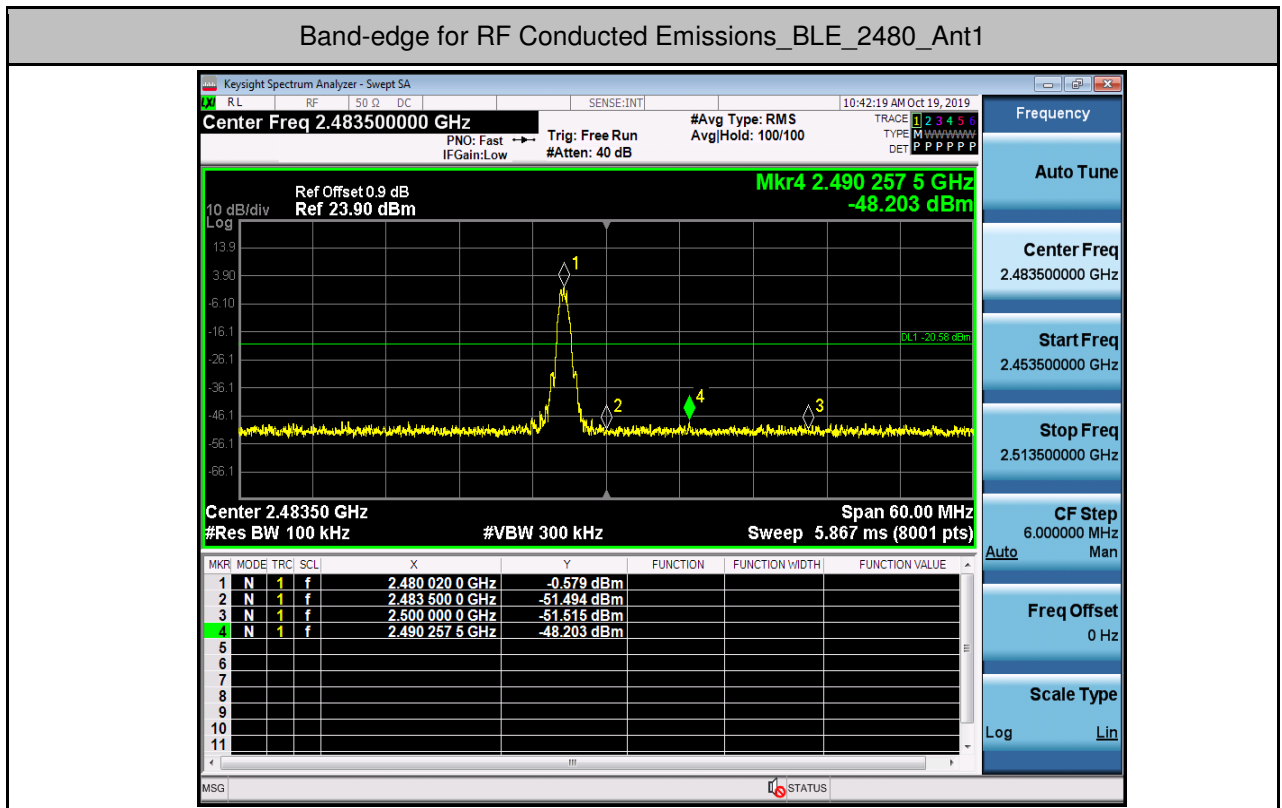
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-0.635	-48.644	-20.64	PASS
BLE	2480	Ant1	-0.579	-48.203	-20.58	PASS



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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	-0.618	-54.804	<-20.618	PASS
BLE	2402	Ant1	10000	26000	100	300	-0.618	-51.142	<-20.618	PASS
BLE	2442	Ant1	30	10000	100	300	-0.527	-54.657	<-20.527	PASS
BLE	2442	Ant1	10000	26000	100	300	-0.527	-52.389	<-20.527	PASS
BLE	2480	Ant1	30	10000	100	300	-0.657	-54.398	<-20.657	PASS
BLE	2480	Ant1	10000	26000	100	300	-0.657	-52.070	<-20.657	PASS



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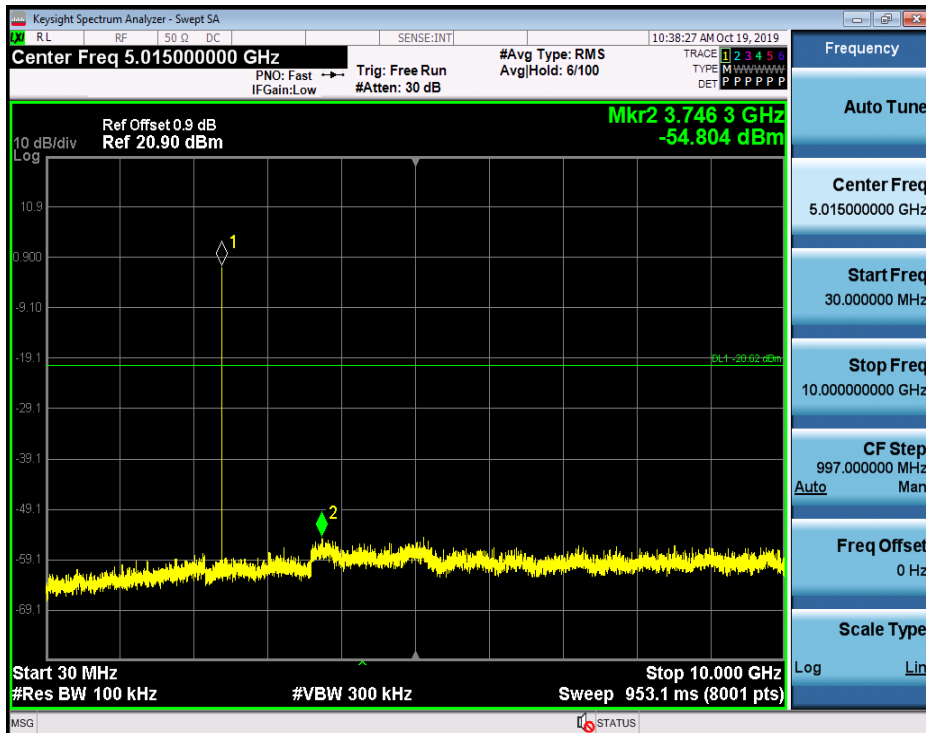
TEST PLOT

RF Conducted Spurious Emissions\_BLE\_2402\_Ant1

Pref

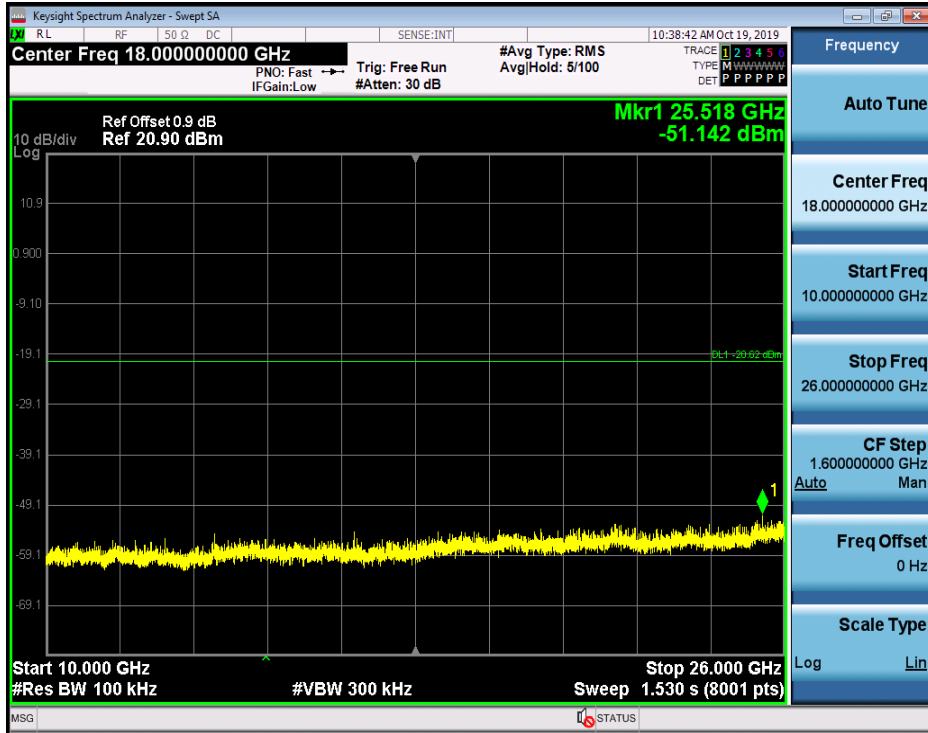


CSE\_1



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CSE\_2



RF Conducted Spurious Emissions\_BLE\_2442\_Ant1

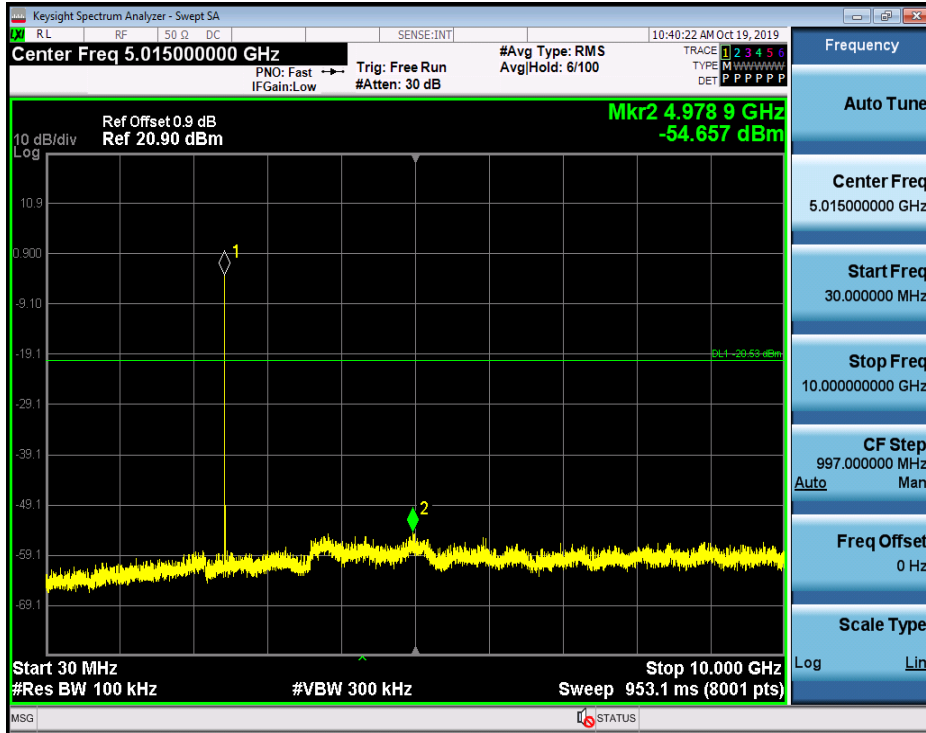
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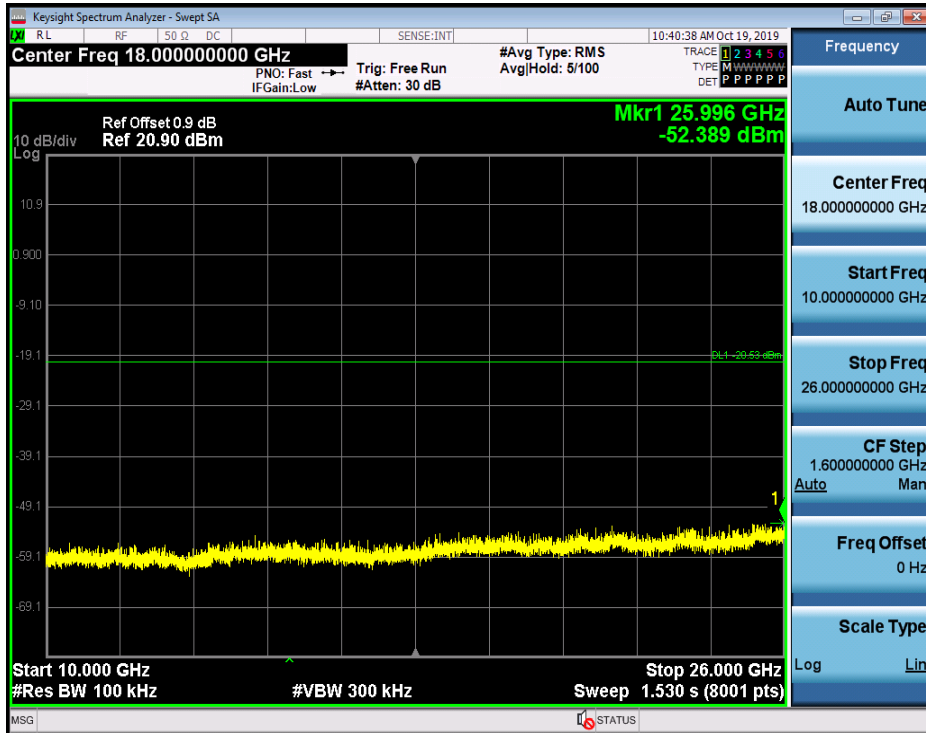
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CSE\_1



CSE\_2



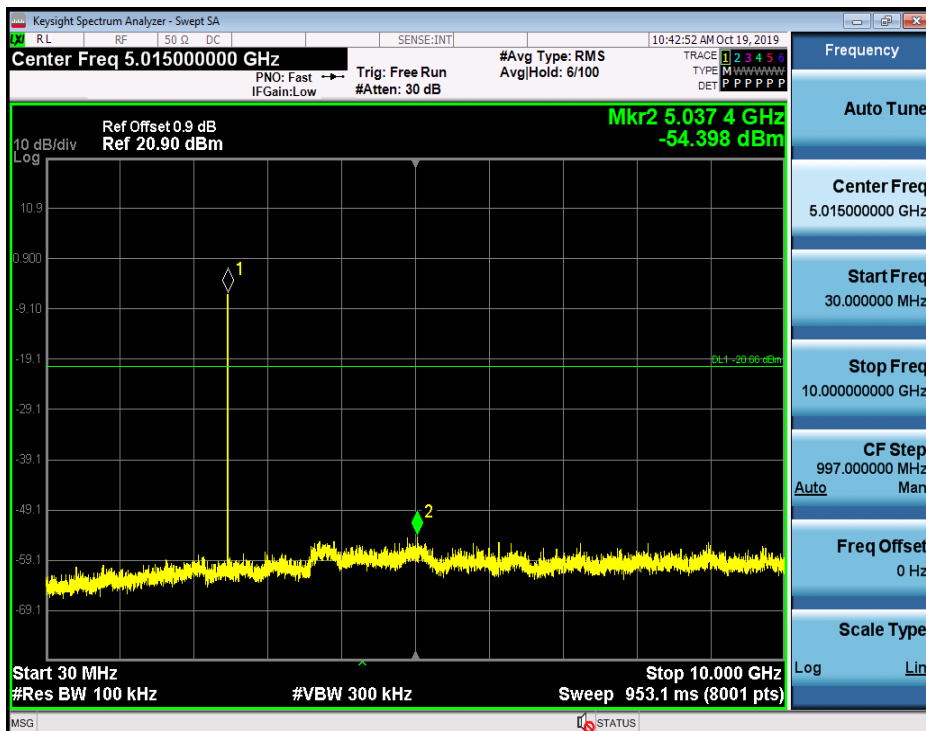
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RF Conducted Spurious Emissions\_BLE\_2480\_Ant1

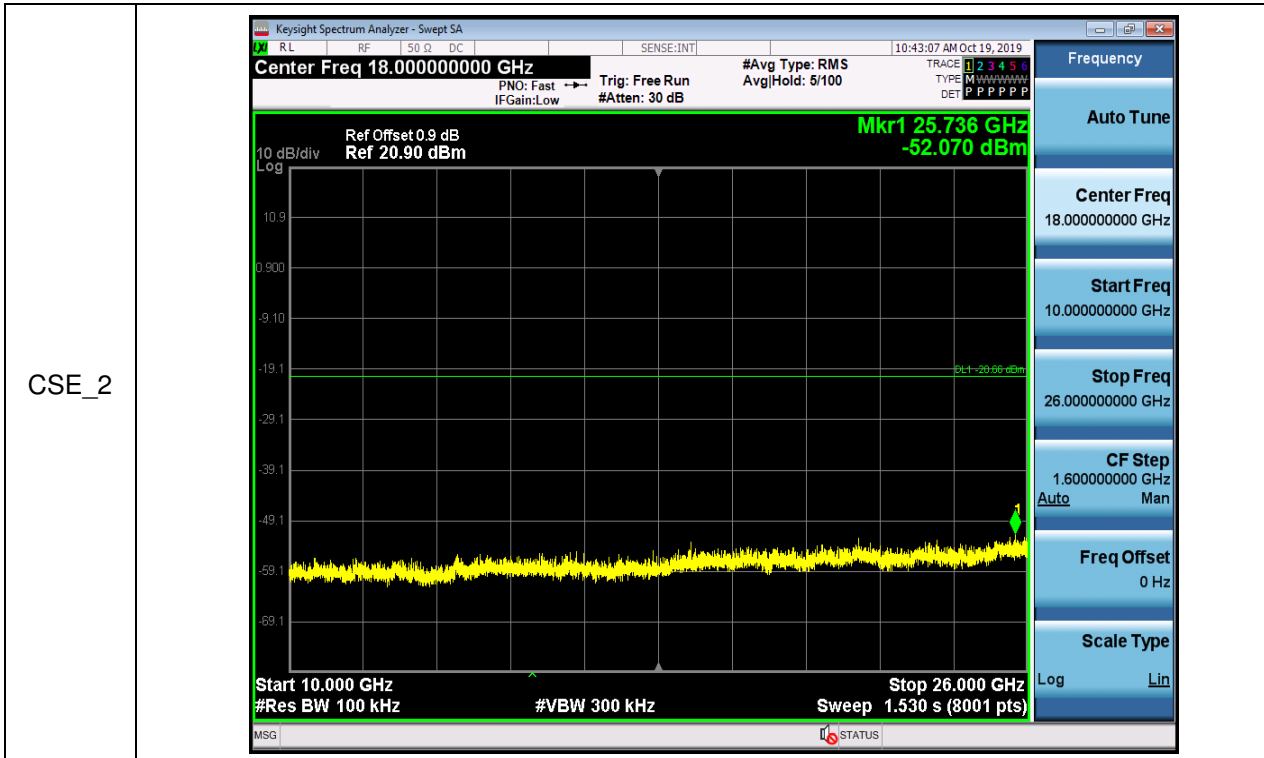
Pref



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