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Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555 Fax: +86 (0) 20 82075059 Email: ee.guangzhou@sgs.com Report No.: GZEM190601397402

Page: 1 of 55 FCC ID: OU9M1000-001

### TEST REPORT

Application No.: GZEM1906013974CR

**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):** 

FCC ID: OU9M1000-001

EUT Name: Mio POD Model No.: M1000

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

**Date of Receipt:** 2019-07-01

**Date of Test:** 2019-08-06 to 2019-09-02

**Date of Issue:** 2019-09-16

Test Result: Pass\*

Kobe Jian

Kupe Tim

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



Report No.: GZEM190601397402

Page: 2 of 55

Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2019-09-16		Original			

Authorized for issue by:		
Tested By	City Knang	2019-08-06 to 2019-09-02
	Lily_Kuang /Project Engineer	Date
Checked By	Riday Liv	2019-09-16
	Ricky_Liu /Reviewer	Date



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Report No.: GZEM190601397402

Page: 3 of 55

### 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 Matt	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				



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Report No.: GZEM190601397402

Page: 4 of 55

### 3 Contents

			Page
1	Cover	Page	
2	Test S	Summary	3
3	Conte	nts	2
4		al Information	
		Details of E.U.T	
		Description of Support Units	
		Measurement Uncertainty	
		Fest Location	
		Test Facility	
		Abnormalities from Standard Conditions	
5	Equip	ment List	10
6	Radio	Spectrum Technical Requirement	14
Ŭ			
	6.1 A	Antenna Requirement	
	6.1.1	Conclusion	
_	_		
7		Spectrum Matter Test Results	
		Minimum 6dB Bandwidth	
	7.1.1	E.U.T. Operation	
	7.1.2	Test Setup Diagram	
	7.1.3	Measurement Procedure and Data	
	7.2 C	Conducted Peak Output Power	
	7.2.1	Test Setup Diagram	
	7.2.2	Measurement Procedure and Data	
	_	Power Spectrum Density	
	7.3.1	E.U.T. Operation	
	7.3.2	Test Setup Diagram	
	7.3.3	Measurement Procedure and Data	18
	7.4 C	Conducted Band Edges Measurement	
	7.4.1	E.U.T. Operation	
	7.4.2	Test Setup Diagram	
	7.4.3	Measurement Procedure and Data	
		Conducted Spurious Emissions	
	7.5.1	E.U.T. Operation	
	7.5.2	Test Setup Diagram	
	7.5.3	Measurement Procedure and Data	
	7.6 F 7.6.1	Radiated Emissions which fall in the restricted bands	
	7.6.1	Test Setup Diagram	
	7.6.2	Measurement Procedure and Data	



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Report No.: GZEM190601397402

Page: 5 of 55

	7.7	Radiated Spurious Emissions	28
		E.U.T. Operation	
		Part Setup Diagram	
		Measurement Procedure and Data	
8	Appe	endix	34
	8.1	Appendix 15.247	34



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Report No.: GZEM190601397402

Page: 6 of 55

### 4 General Information

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

Power Supply: Powered by built-in battery as below

Rated: DC 3.8V,110mAh DC 5V for charging mode

Cable: 0.5m, unshielded for charging

Antenna Gain 0 dBi
Antenna Type Integral
Channel Spacing 2MHz
Modulation Type GFSK
Number of Channels 40

Operation Frequency 2402MHz to 2480MHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	IBM	T30	S/N78-3VMLX 06/01

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10-8
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions ±1.04dB	
7	RF Radiated Power	±4.5dB (below 1GHz)
/	Ar Hadialed Power	±4.8dB (above 1GHz)
8	Dadiated Caurious Emission Test	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4℃
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%



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Report No.: GZEM190601397402

Page: 7 of 55

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech 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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Report No.: GZEM190601397402

Page: 8 of 55

### 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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Report No.: GZEM190601397402

Page: 9 of 55

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: GZEM190601397402

Page: 10 of 55

### 5 Equipment List

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date	
EXA Signal Analzer	Agilent Technologies	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 Analzer	Agilent Technologies	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 Analzer	Agilent Technologies	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	_	1		T
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date
MXA Signal Analyzer	Agilent Technologies	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	Agilent Technologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	Agilent Technologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19



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Report No.: GZEM190601397402

Page: 11 of 55

Power Meter	Agilent Technologies U2021XA_Ch3 SEM009-03		2018-09-20	2019-09-19	
EXA Signal Analzer	Agilent Technologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	B Attenuator HP		EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	MI CABLE SGS		M EMC2136 20		2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Conducted Spurious Emissions										
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date					
EXA Signal Analzer	Agilent Technologies	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	M8.0	EMC2136	2017-11-02	2019-11-01					
MI CABLE	SGS	M8.0	EMC2137	2017-11-02	2019-11-01					

Radiated Emissions which fall in the restricted bands										
Equipment	Manufacturer	Model No Inventory		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	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05					
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07					
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03					
Horn Antenna 1GHz-18GHz	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	2018-12-08	2019-12-07					



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Report No.: GZEM190601397402

Page: 12 of 55

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	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Spurious Emissions										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	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	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05					
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07					
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03					
Horn Antenna 1GHz-18GHz	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	2018-12-08	2019-12-07					
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18					
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18					
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18					
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECK MESS-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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Report No.: GZEM190601397402

Page: 13 of 55

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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Report No.: GZEM190601397402

Page: 14 of 55

### 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)

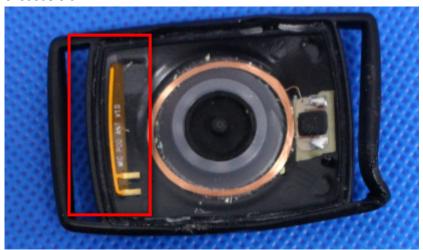
#### 6.1.2 Conclusion

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.



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Report No.: GZEM190601397402

Page: 15 of 55

### 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

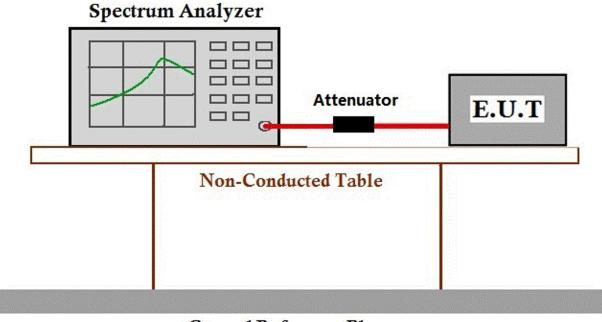
Limit: ≥500 kHz

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

Operating Environment:

Temperature: 25 °C Humidity: 48.7 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

### 7.1.2 Test Setup Diagram



### Ground Reference Plane

#### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM190601397402

Page: 16 of 55

### 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)					
	1 for ≥50 hopping channels					
902-928	0.25 for 25≤ hopping channels <50					
	1 for digital modulation					
	1 for ≥75 non-overlapping hopping channels					
2400-2483.5	0.125 for all other frequency hopping systems					
	1 for digital modulation					
5725-5850	1 for frequency hopping systems and digital modulation					



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Report No.: GZEM190601397402

Page: 17 of 55

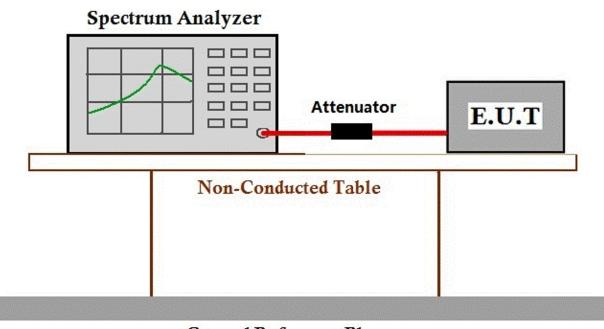
#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 48.7 % RH Atmospheric Pressure: 1020 mbar

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

#### 7.2.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM190601397402

Page: 18 of 55

### 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

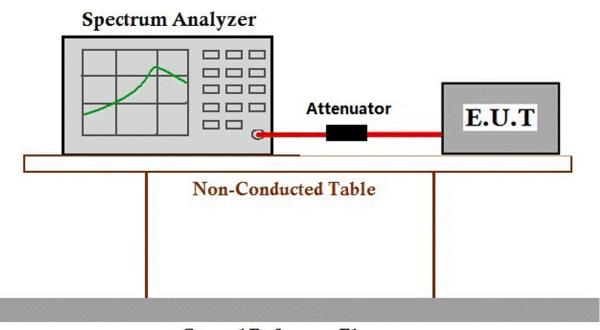
transmission

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 48.7 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.3.2 Test Setup Diagram



### Ground Reference Plane

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM190601397402

Page: 19 of 55

### 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

§15.209(a) (see §15.205(c)

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

The state of the

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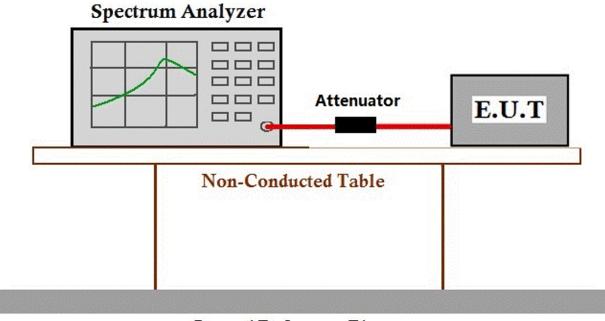
Page: 20 of 55

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

Operating Environment:

Temperature: 25 °C Humidity: 48.7 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.4.2 Test Setup Diagram



Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Page: 21 of 55

### 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 frequence

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

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)



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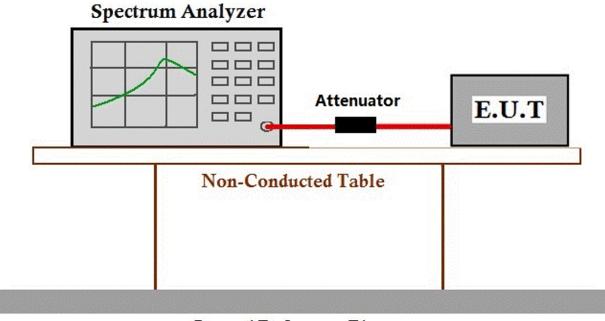
Page: 22 of 55

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 48.7 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.5.2 Test Setup Diagram



### Ground Reference Plane

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM190601397402

Page: 23 of 55

#### 7.6 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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



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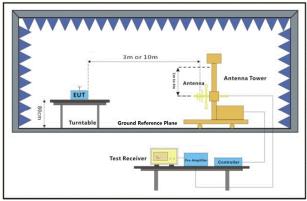
Page: 24 of 55

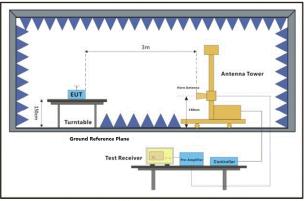
#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 51.1 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.6.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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Report No.: GZEM190601397402

Page: 25 of 55

#### 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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Report No.: GZEM190601397402

Page: 26 of 55

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

	Freq		ntenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	38.89	26.25	3.32	37.44	31.02	54.00	-22.98	HORIZONTAL	Average
2	2310.000	48.70	26.25	3.32	37.44	40.83	74.00	-33.17	HORIZONTAL	Peak
3	2390.000	37.30	26.43	3.48	37.42	29.79	54.00	-24.21	HORIZONTAL	Average
4	2390.000	46.99	26.43	3.48	37.42	39.48	74.00	-34.52	HORIZONTAL	Peak
5	2483.500	38.69	26.58	3.53	37.40	31.40	54.00	-22.60	HORIZONTAL	Average
6	2483.500	48.89	26.58	3.53	37.40	41.60	74.00	-32.40	HORIZONTAL	Peak
7	2500.000	39.04	26.60	3.40	37.39	31.65	54.00	-22.35	HORIZONTAL	Average
8	2500.000	49.69	26.60	3.40	37.39	42.30	74.00	-31.70	HORIZONTAL	Peak

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

	Freq		ntenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	37.86	26.25	3.32	37.44	29.99	54.00	-24.01	VERTICAL	Average
2	2310.000	47.61	26.25	3.32	37.44	39.74	74.00	-34.26	VERTICAL	Peak
3	2390.000	38.62	26.43	3.48	37.42	31.11	54.00	-22.89	VERTICAL	Average
4	2390.000	47.59	26.43	3.48	37.42	40.08	74.00	-33.92	VERTICAL	Peak
5	2483.500	37.84	26.58	3.53	37.40	30.55	54.00	-23.45	VERTICAL	Average
6	2483.500	47.88	26.58	3.53	37.40	40.59	74.00	-33.41	VERTICAL	Peak
7	2500.000	36.80	26.60	3.40	37.39	29.41	54.00	-24.59	VERTICAL	Average
8	2500.000	47.84	26.60	3.40	37.39	40.45	74.00	-33.55	VERTICAL	Peak



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Report No.: GZEM190601397402

Page: 27 of 55

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

	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	1 <del>2.</del>
1	2310.000	37.58	26.25	3.32	37.44	29.71	54.00	-24.29	HORIZONTAL	Average
2	2310.000	47.68	26.25	3.32	37.44	39.81	74.00	-34.19	HORIZONTAL	Peak
3	2390.000	38.92	26.43	3.48	37.42	31.41	54.00	-22.59	HORIZONTAL	Average
4	2390.000	46.67	26.43	3.48	37.42	39.16	74.00	-34.84	HORIZONTAL	Peak
5	2483.500	48.07	26.58	3.53	37.40	40.78	54.00	-13.22	HORIZONTAL	Average
6	2483.500	55.99	26.58	3.53	37.40	48.70	74.00	-25.30	HORIZONTAL	Peak
7	2500.000	35.84	26.60	3.40	37.39	28.45	54.00	-25.55	HORIZONTAL	Average
8	2500.000	45.47	26.60	3.40	37.39	38.08	74.00	-35.92	HORIZONTAL	Peak

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

	Freq		ntenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		· <del>.</del>
1	2310.000	37.87	26.25	3.32	37.44	30.00	54.00	-24.00	VERTICAL	Average
2	2310.000	47.26	26.25	3.32	37.44	39.39	74.00	-34.61	VERTICAL	Peak
3	2390.000	39.03	26.43	3.48	37.42	31.52	54.00	-22.48	VERTICAL	Average
4	2390.000	47.16	26.43	3.48	37.42	39.65	74.00	-34.35	VERTICAL	Peak
5	2483.500	49.27	26.58	3.53	37.40	41.98	54.00	-12.02	VERTICAL	Average
6	2483.500	60.60	26.58	3.53	37.40	53.31	74.00	-20.69	VERTICAL	Peak
7	2500.000	37.49	26.60	3.40	37.39	30.10	54.00	-23.90	VERTICAL	Average
8	2500.000	47.43	26.60	3.40	37.39	40.04	74.00	-33.96	VERTICAL	Peak



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Report No.: GZEM190601397402

Page: 28 of 55

### 7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

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

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



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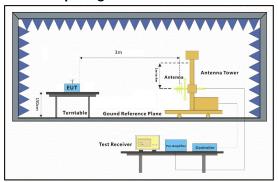
Page: 29 of 55

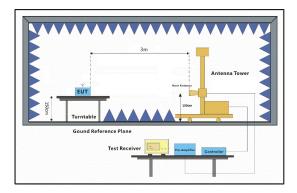
### 7.7.1 E.U.T. Operation

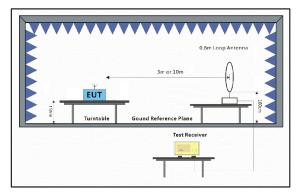
Operating Environment:

Temperature: 24.8 °C Humidity: 51.1 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.7.2 Test Setup Diagram









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Report No.: GZEM190601397402

Page: 30 of 55

#### 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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Report No.: GZEM190601397402

Page: 31 of 55

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

		ReadA	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		<del> </del>
1	4098.010	37.51	29.58	4.60	36.90	34.79	54.00	-19.21	HORIZONTAL	Average
2	4098.010	46.22	29.58	4.60	36.90	43.50	74.00	-30.50	HORIZONTAL	Peak
3	4804.419	40.91	30.79	5.40	36.94	40.16	54.00	-13.84	HORIZONTAL	Average
4	4804.419	48.03	30.79	5.40	36.94	47.28	74.00	-26.72	HORIZONTAL	Peak
5	5763.617	38.10	32.12	6.15	37.00	39.37	54.00	-14.63	HORIZONTAL	Average
6	5763.617	45.76	32.12	6.15	37.00	47.03	74.00	-26.97	HORIZONTAL	Peak
7	7205.560	39.50	35.45	5.98	36.93	44.00	54.00	-10.00	HORIZONTAL	Average
8	7205.560	53.61	35.45	5.98	36.93	58.11	74.00	-15.89	HORIZONTAL	Peak
9	9608.371	37.59	37.51	7.07	37.08	45.09	54.00	-8.91	HORIZONTAL	Average
10	9608.371	45.53	37.51	7.07	37.08	53.03	74.00	-20.97	HORIZONTAL	Peak
11	12060.580	37.89	39.46	8.17	37.17	48.35	54.00	-5.65	HORIZONTAL	Average
12	12060.580	44.26	39.46	8.17	37.17	54.72	74.00	-19.28	HORIZONTAL	Peak

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

		ReadA	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	-	- <del>-</del> -
1	3556.843	38.22	28.03	4.44	36.95	33.74	54.00	-20.26	VERTICAL	Average
2	3556.843	45.91	28.03	4.44	36.95	41.43	74.00	-32.57	VERTICAL	Peak
3	4804.339	37.68	30.79	5.40	36.94	36.93	54.00	-17.07	VERTICAL	Average
4	4804.339	45.14	30.79	5.40	36.94	44.39	74.00	-29.61	VERTICAL	Peak
5	5797.032	35.21	32.16	6.10	37.00	36.47	54.00	-17.53	VERTICAL	Average
6	5797.032	44.53	32.16	6.10	37.00	45.79	74.00	-28.21	VERTICAL	Peak
7	7205.590	40.10	35.45	5.98	36.93	44.60	54.00	-9.40	VERTICAL	Average
8	7205.590	54.08	35.45	5.98	36.93	58.58	74.00	-15.42	VERTICAL	Peak
9	9608.151	36.94	37.51	7.07	37.08	44.44	54.00	-9.56	VERTICAL	Average
10	9608.151	44.86	37.51	7.07	37.08	52.36	74.00	-21.64	VERTICAL	Peak
11	12010.610	37.42	39.50	8.19	37.20	47.91	54.00	-6.09	VERTICAL	Average
12	12010.610	44.48	39.50	8.19	37.20	54.97	74.00	-19.03	VERTICAL	Peak



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Report No.: GZEM190601397402

Page: 32 of 55

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

		ReadA	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	-	<del> </del>
1	3823.371	36.97	29.08	4.60	36.91	33.74	54.00	-20.26	HORIZONTAL	Average
2	3823.371	44.58	29.08	4.60	36.91	41.35	74.00	-32.65	HORIZONTAL	Peak
3	4882.151	38.67	30.95	5.52	36.95	38.19	54.00	-15.81	HORIZONTAL	Average
4	4882.151	49.90	30.95	5.52	36.95	49.42	74.00	-24.58	HORIZONTAL	Peak
5	6322.136	39.92	33.68	5.95	36.99	42.56	54.00	-11.44	HORIZONTAL	Average
6	6322.136	44.21	33.68	5.95	36.99	46.85	74.00	-27.15	HORIZONTAL	Peak
7	7325.608	38.15	35.74	6.13	36.92	43.10	54.00	-10.90	HORIZONTAL	Average
8	7325.608	51.43	35.74	6.13	36.92	56.38	74.00	-17.62	HORIZONTAL	Peak
9	9764.689	36.25	37.70	7.02	37.09	43.88	54.00	-10.12	HORIZONTAL	Average
10	9764.689	44.54	37.70	7.02	37.09	52.17	74.00	-21.83	HORIZONTAL	Peak
11	12205.610	37.67	39.21	8.08	37.06	47.90	54.00	-6.10	HORIZONTAL	Average
12	12205.610	43.91	39.21	8.08	37.06	54.14	74.00	-19.86	HORIZONTAL	Peak

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

		ReadA	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	-	· <del></del>
1	4098.010	37.42	29.58	4.60	36.90	34.70	54.00	-19.30	VERTICAL	Average
2	4098.010	45.58	29.58	4.60	36.90	42.86	74.00	-31.14	VERTICAL	Peak
3	4882.151	38.72	30.95	5.52	36.95	38.24	54.00	-15.76	VERTICAL	Average
4	4882.151	47.80	30.95	5.52	36.95	47.32	74.00	-26.68	VERTICAL	Peak
5	5797.032	39.97	32.16	6.10	37.00	41.23	54.00	-12.77	VERTICAL	Average
6	5797.032	47.18	32.16	6.10	37.00	48.44	74.00	-25.56	VERTICAL	Peak
7	7323.122	39.92	35.74	6.13	36.92	44.87	54.00	-9.13	VERTICAL	Average
8	7323.122	50.70	35.74	6.13	36.92	55.65	74.00	-18.35	VERTICAL	Peak
9	9764.430	39.85	37.70	7.02	37.09	47.48	54.00	-6.52	VERTICAL	Average
10	9764.430	45.56	37.70	7.02	37.09	53.19	74.00	-20.81	VERTICAL	Peak
11	12205.270	37.64	39.21	8.08	37.06	47.87	54.00	-6.13	VERTICAL	Average
12	12205.270	44.54	39.21	8.08	37.06	54.77	74.00	-19.23	VERTICAL	Peak



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Report No.: GZEM190601397402

Page: 33 of 55

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

		ReadA	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	4133.699	38.64	29.62	4.60	36.90	35.96	54.00	-18.04	HORIZONTAL	Average
2	4133.699	45.32	29.62	4.60	36.90	42.64	74.00	-31.36	HORIZONTAL	Peak
3	4960.993	37.98	31.05	5.65	36.96	37.72	54.00	-16.28	HORIZONTAL	Average
4	4960.993	46.63	31.05	5.65	36.96	46.37	74.00	-27.63	HORIZONTAL	Peak
5	6322.136	36.96	33.68	5.95	36.99	39.60	54.00	-14.40	HORIZONTAL	Average
6	6322.136	44.62	33.68	5.95	36.99	47.26	74.00	-26.74	HORIZONTAL	Peak
7	7440.914	39.68	35.92	6.22	36.92	44.90	54.00	-9.10	HORIZONTAL	Average
8	7440.914	44.96	35.92	6.22	36.92	50.18	74.00	-23.82	HORIZONTAL	Peak
9	9920.187	38.98	37.92	6.96	37.10	46.76	54.00	-7.24	HORIZONTAL	Average
10	9920.187	44.58	37.92	6.96	37.10	52.36	74.00	-21.64	HORIZONTAL	Peak
11	12400.750	36.95	38.93	7.97	36.90	46.95	54.00	-7.05	HORIZONTAL	Average
12	12400.750	44.85	38.93	7.97	36.90	54.85	74.00	-19.15	HORIZONTAL	Peak

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

		ReadA	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		· <del></del> -
1	4098.010	38.29	29.58	4.60	36.90	35.57	54.00	-18.43	VERTICAL	Average
2	4098.010	44.88	29.58	4.60	36.90	42.16	74.00	-31.84	VERTICAL	Peak
3	4960.993	37.41	31.05	5.65	36.96	37.15	54.00	-16.85	VERTICAL	Average
4	4960.993	46.55	31.05	5.65	36.96	46.29	74.00	-27.71	VERTICAL	Peak
5	6249.464	38.51	33.30	6.02	36.99	40.84	54.00	-13.16	VERTICAL	Average
6	6249.464	44.75	33.30	6.02	36.99	47.08	74.00	-26.92	VERTICAL	Peak
7	7439.609	37.42	35.92	6.22	36.92	42.64	54.00	-11.36	VERTICAL	Average
8	7439.609	50.95	35.92	6.22	36.92	56.17	74.00	-17.83	VERTICAL	Peak
9	9920.430	39.72	37.92	6.96	37.10	47.50	54.00	-6.50	VERTICAL	Average
10	9920.430	45.58	37.92	6.96	37.10	53.36	74.00	-20.64	VERTICAL	Peak
11	12400.610	35.97	38.93	7.97	36.90	45.97	54.00	-8.03	VERTICAL	Average
12	12400.610	44.29	38.93	7.97	36.90	54.29	74.00	-19.71	VERTICAL	Peak



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Report No.: GZEM190601397402

Page: 34 of 55

### 8 Appendix

### 8.1 Appendix 15.247

#### 1.6dB Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.0675	0.6922	0.5	PASS
BLE	2442	Ant1	1.0749	0.6937	0.5	PASS
BLE	2480	Ant1	1.0734	0.6870	0.5	PASS



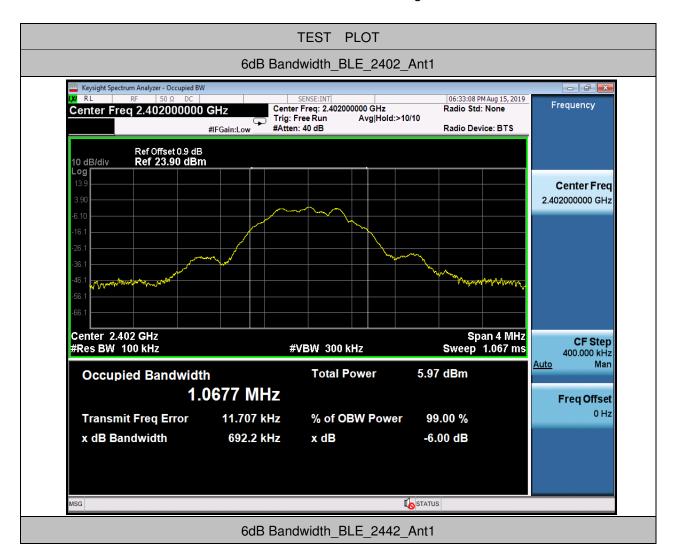
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Report No.: GZEM190601397402

Page: 35 of 55





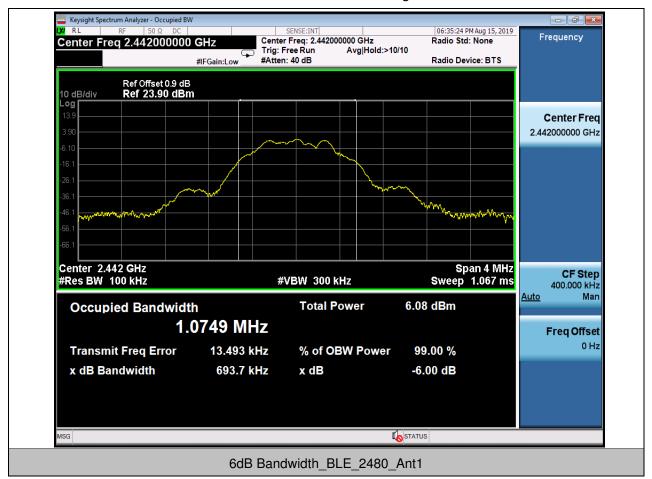
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Page: 36 of 55





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Page: 37 of 55





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Report No.: GZEM190601397402

Page: 38 of 55

#### 2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-0.303	30	PASS
BLE	2442	Ant1	-0.177	30	PASS
BLE	2480	Ant1	-0.034	30	PASS



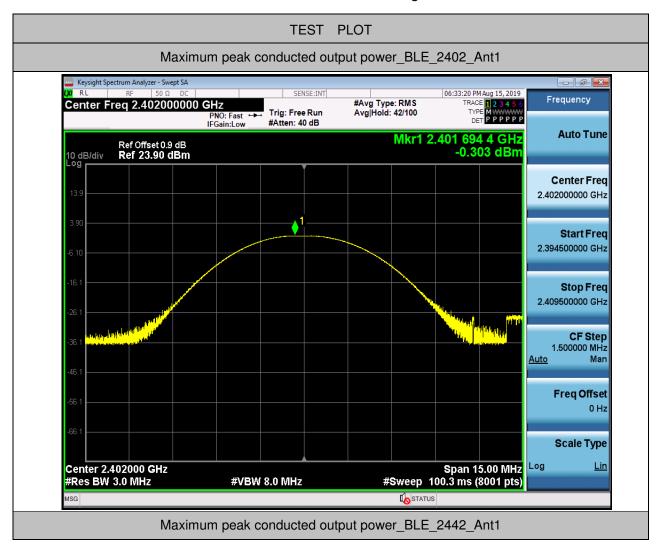
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Page: 39 of 55





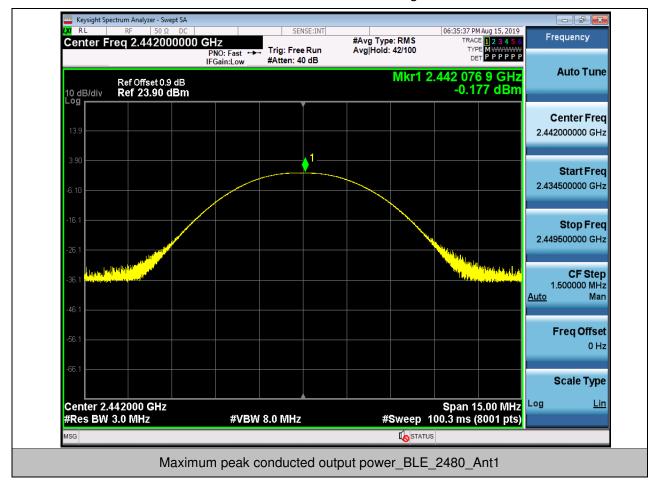
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Report No.: GZEM190601397402

Page: 40 of 55





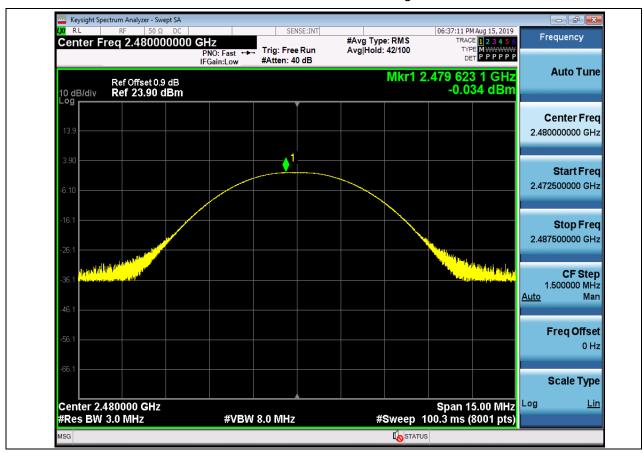
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Report No.: GZEM190601397402

Page: 41 of 55



#### 3.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz	Verdict
BLE	2402	Ant1	-17.864	8.00	PASS
BLE	2442	Ant1	-17.719	8.00	PASS
BLE	2480	Ant1	-17.642	8.00	PASS



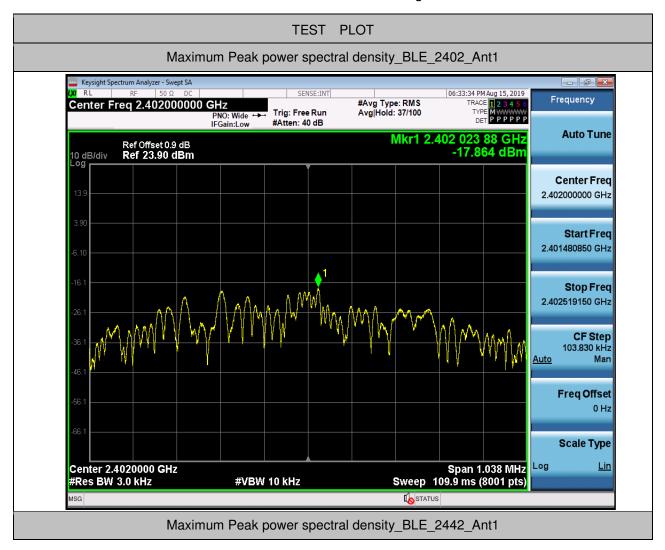
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Report No.: GZEM190601397402

Page: 42 of 55





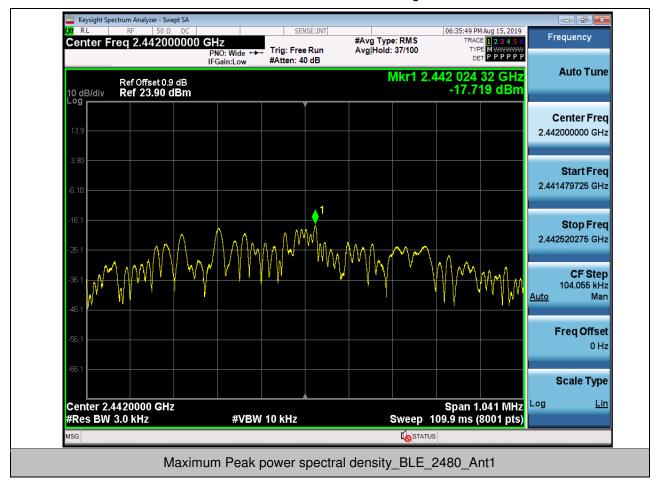
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Report No.: GZEM190601397402

Page: 43 of 55





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Report No.: GZEM190601397402

Page: 44 of 55



#### 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	-0.339	-48.732	-20.34	PASS
BLE	2480	Ant1	-0.096	-48.115	-20.1	PASS



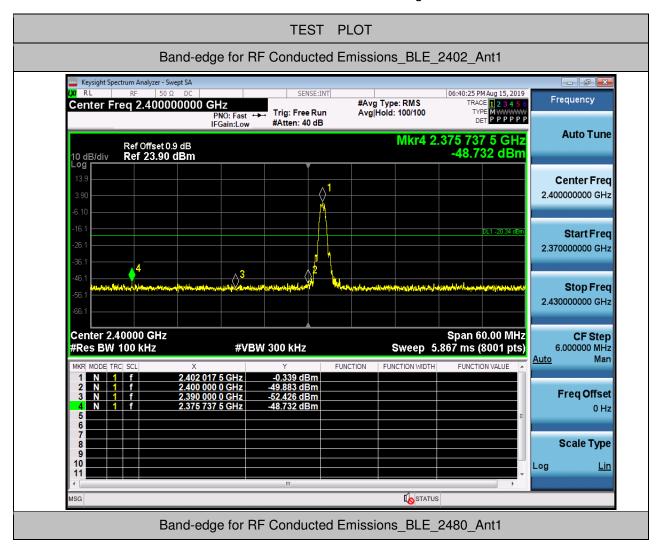
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Report No.: GZEM190601397402

Page: 45 of 55





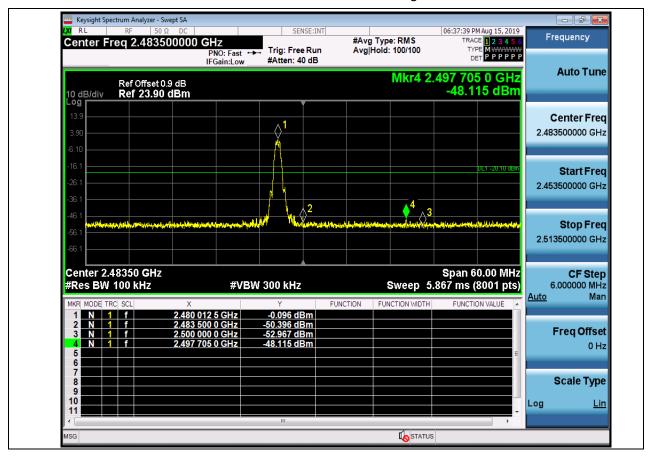
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Report No.: GZEM190601397402

Page: 46 of 55



#### 5.RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[d Bm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	30	10000	100	300	-0.37	-47.286	<-20.3 7	PASS
BLE	2402	Ant1	10000	26000	100	300	-0.37	-52.432	<-20.3 7	PASS
BLE	2442	Ant1	30	10000	100	300	-0.327	-51.284	<-20.3 27	PASS
BLE	2442	Ant1	10000	26000	100	300	-0.327	-52.114	<-20.3 27	PASS
BLE	2480	Ant1	30	10000	100	300	-0.169	-54.546	<-20.1 69	PASS
BLE	2480	Ant1	10000	26000	100	300	-0.169	-51.694	<-20.1 69	PASS



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Report No.: GZEM190601397402

Page: 47 of 55





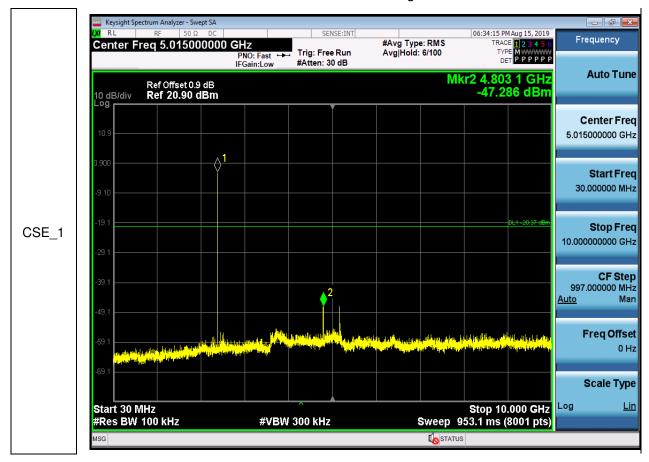
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Report No.: GZEM190601397402

Page: 48 of 55





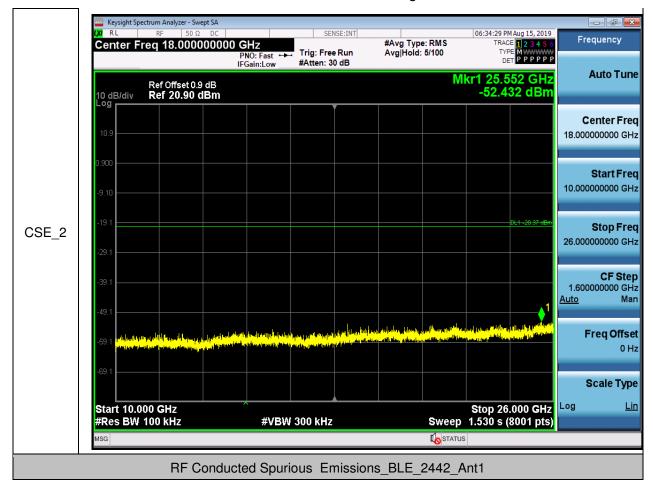
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Report No.: GZEM190601397402

Page: 49 of 55





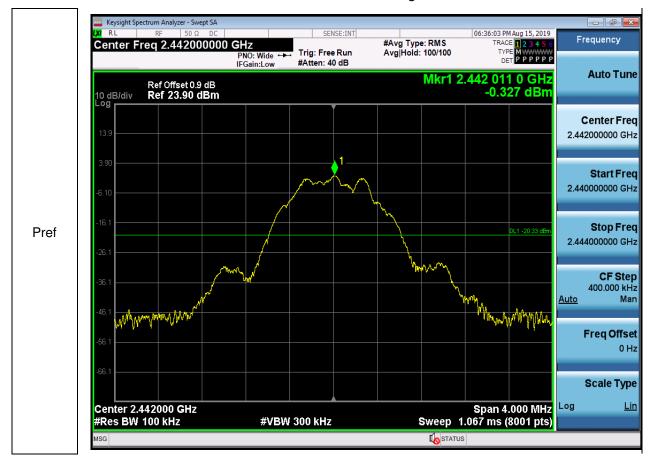
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Page: 50 of 55





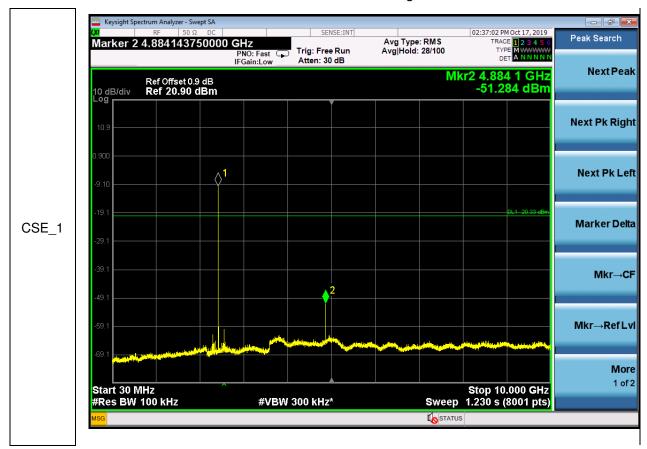
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Report No.: GZEM190601397402

Page: 51 of 55





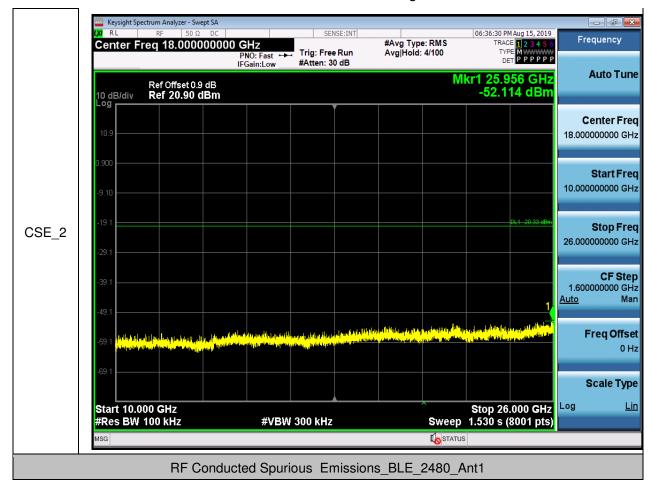
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Page: 52 of 55





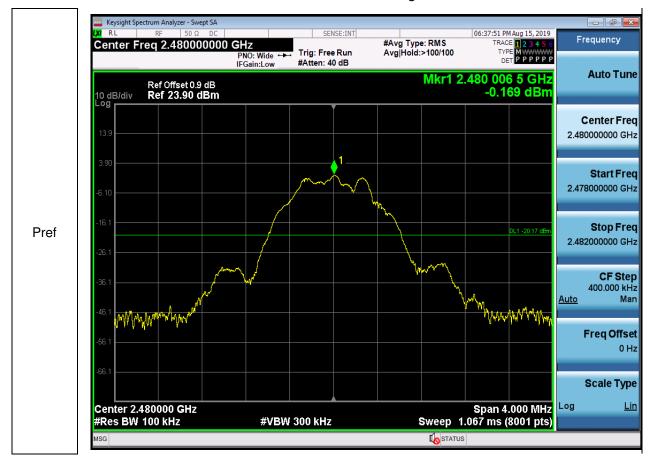
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Page: 53 of 55





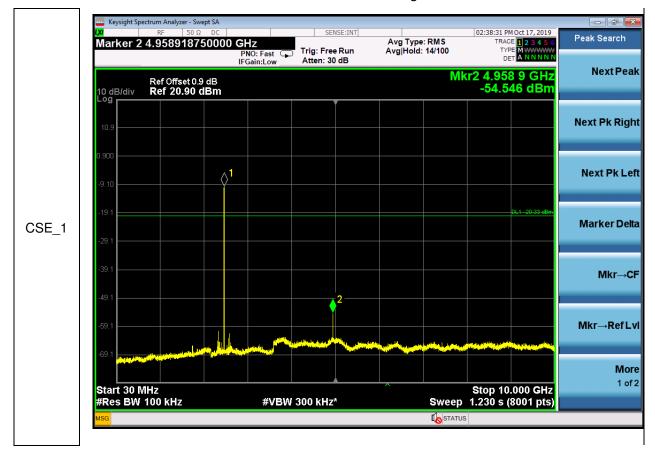
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Page: 54 of 55





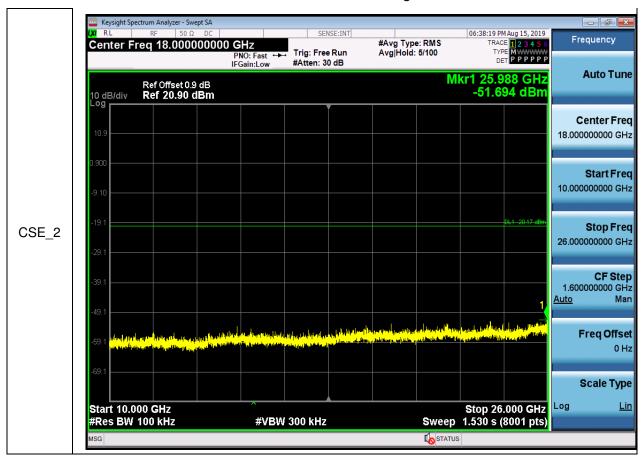
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Page: 55 of 55



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