SGS

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

198 Kezhu Road, Scientech 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.: GZEM181100357301 Page: 1 of 71

TEST REPORT

Application No.:	GZEM1811003573CR
Applicant:	Varjo Technologies Oy
Address of Applicant:	Aleksanterinkatu 21H, 00100 Helsinki, Finland
Manufacturer:	Varjo Technologies Oy
Address of Manufacturer:	Aleksanterinkatu 21H, 00100 Helsinki, Finland
Factory:	Flextronics Manufacturing (Zhuhai) Co., Ltd.
Address of Factory:	Xin Qing Science & Technology Industrial Park, Jing An, Doumen, Zhuhai, Guangdong, 519180, PRC
Equipment Under Test (EUT	·):
EUT Name:	Varjo VR-1
Model No.:	HS-1
Trade Mark:	Varjo
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2018-11-20
Date of Test:	2018-11-27 to 2018-12-13
Date of Issue:	2019-03-01
Test Result:	

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



Kobe Jian Lab 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		2019-03-01		Original		

Authorized for issue by:		
Tested By	Curry We	2018-11-27 to 2018-12-13
	Curry_Wu /Project Engineer	Date
Checked By	Ridey Lin	2019-03-01
	Ricky_Liu /Reviewer	Date



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Test Summary 2

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			
Conducted Emissions at AC Power Line (150kHz- 30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
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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General Information 4

4.1 Details of E.U.T.

Power Supply:	Power Supply Unit
	MODEL: S51A00
	INPUT: AC 100-240V, 50~60Hz, 1.3A
	OUTPUT: DC5V 3A / DC9V 3A / DC15V 3A / DC20 3A
Test Voltage:	AC 120V 50Hz
Cable:	0.5m unscreened DP cable x 2
	0.5m unscreened USB cable x1
	0.8m unscreened USB type C cable x1
	0.5m x 2 wires unscreened AC mains cable x1
Antenna Gain	0dBi
Antenna Type	Integral
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz
Function description	There are two same 2.4G RF IC inside, both are tested.

4.2 Description of Support Units

The EUT has been tested with corresponding accessories as below:

Supplied by client:

Description	Manufacturer	Model No.	SN/Certificate NO
Labtop	Acer	N17Q7	NHQ2LED008747120397600



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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)
1	hr haulaleu fowel	±4.8dB (above 1GHz)
8	Redicted Sourious Emission Test	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4°C
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%

4.3 Measurement Uncertainty

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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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-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 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-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

• VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)

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-2460, C-2584, G-449 and T-1179 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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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2018-01-19	2019-01-18
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	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	

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer	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

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer	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



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Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2018-03-10	2019-03-09
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2018-04-10	2019-04-10
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
EXA Signal Analzer	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

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer	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



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2018-01-19	2019-01-18
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2018-01-19	2019-01-18
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz- 18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2018-01-08	2019-01-07
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2018-01-19	2019-01-18
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2018-01-08	2019-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
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	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emi	ssions				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2018-01-19	2019-01-18
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2018-01-19	2019-01-18
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz- 18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2018-01-08	2019-01-07
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2018-01-19	2019-01-18
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2018-01-08	2019-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
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	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18



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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)

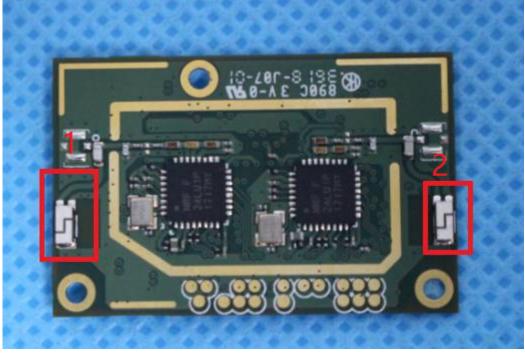
6.1.2 Conclusion

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 2.3dBi.

Remark: Appendix 15.247-IC 1 is for antenna 1 conducted test, Appendix 15.247-IC 2 is for antenna 2 conducted test.



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Radio Spectrum Matter Test Results 7

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement **Test Method:** Limit:

47 CFR Part 15, Subpart C 15.207 ANSI C63.10 (2013) Section 6.2

	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					



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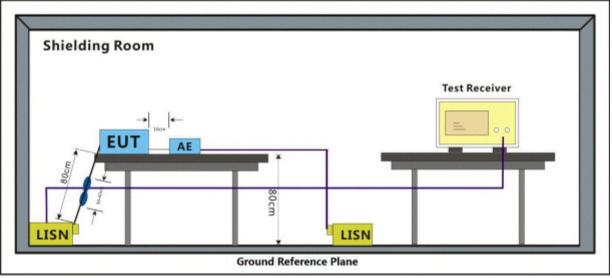


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7.1.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	25.3 °C	Humidity:	58.6 % RH	Atmospheric Pressure:	1020	mbar
Test mode	a: TX mode GFSK mod		ireless module i	n continuously transmitting	mode w	ith

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 500hm/50 μ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

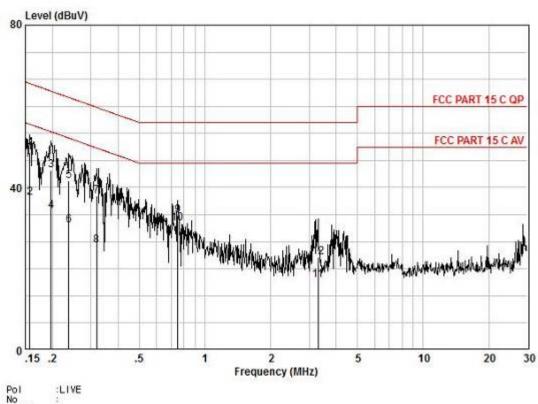


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Mode:a; Line:Live Line

Pol	:LIVE
No	\$
Model	4

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Linit Line dBuV	Over limit dB	Remark
0,16	38,93	0,10	9,67	48,70	65,60	-16,91	QP
0,16	27,80	0,10	9,67	37,57	55,60	-18,04	AVERAGE
0,20	34,50	0,10	9,66	44,26	63,71	-19,45	QP
0,20	24,41	0,10	9,66	34,17	53,71	-19,54	AVERAGE
0,24	31,83	0,12	9,67	41,62	62,17	-20,55	QP
0,24	20,91	0,12	9,67	30,70	52,17	-21,47	AVERAGE
0.32	28,10	0,15	9,67	37,92	59,75	-21,83	QP
0,32	15,90	0,15	9,67	25,72	49,75	-24,03	AVERAGE
0,75	23,18	0,26	9,68	33,11	56,00	-22,89	QP
0,75	21,23	0,26	9,68	31,16	46,00	-14,84	AVERAGE
3,29	6,97	0,56	9,69	17,23	46,00	-28,77	AVERAGE
3,29	12,66	0,56	9,69	22,92	56,00	-33,08	QP



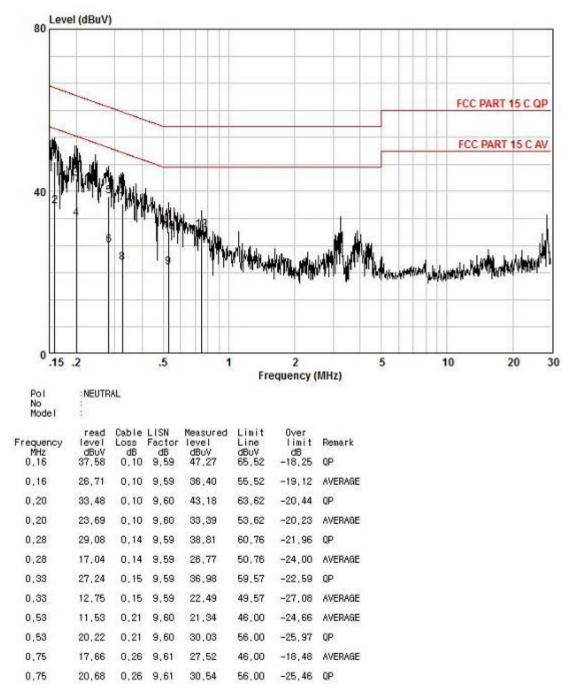
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Mode:a; Line:Neutral Line



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7.2 Minimum 6dB Bandwidth

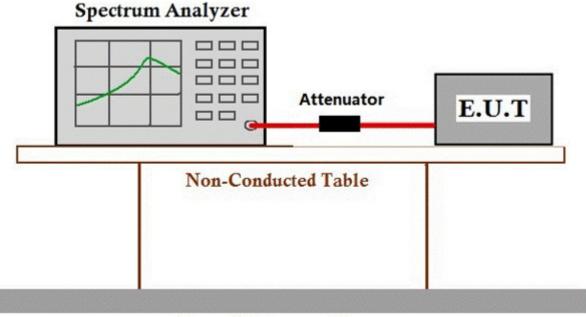
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:23.3 °CHumidity:50.3 % RHAtmospheric Pressure:1020mbarTest modea: TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodulation

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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7.3 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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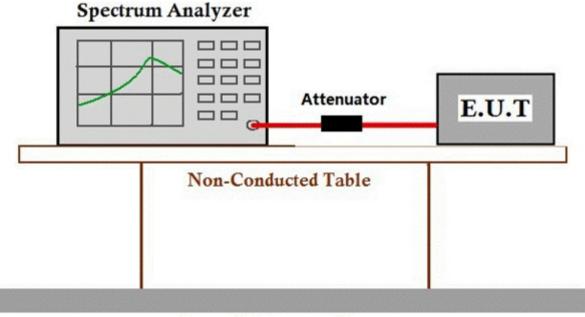


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7.3.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	23.3 °C	Humidity:	50.3 % RH	Atmospheric Pressure:	1020	mbar
Test mode	a: TX mode_ modulation	_Keep the El	JT in continuously	r transmitting mode with G	FSK	

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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7.4 Power Spectrum Density

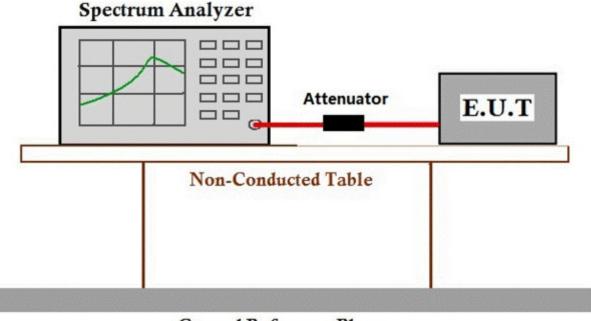
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	${\leq}8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 50.3 % 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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7.5 Conducted Band Edges Measurement

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



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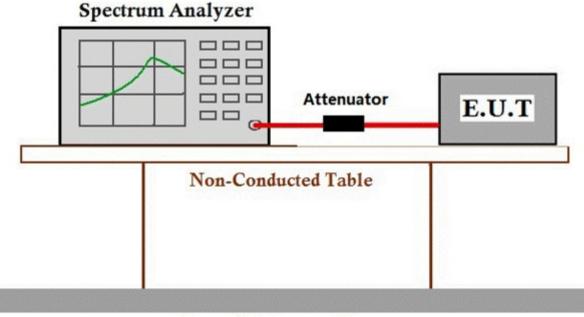


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7.5.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	23.3 °C	Humidity:	50.3 % RH	Atmospheric Pressure: 1020	mbar
Test mode	a: TX mode modulation		JT in continuous	sly transmitting mode with GFSK	

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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47 CFR Part 15, Subpart C 15.247(d)

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7.6 Conducted Spurious Emissions

Test Requirement
Test Method:
Limit:

ANSI C63.10 (2013) Section 11.11 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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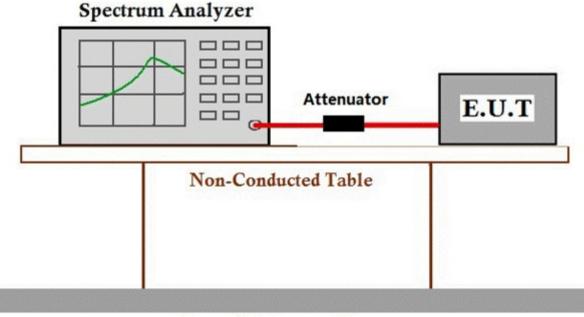


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7.6.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	23.3 °C	Humidity:	50.3 % RH	Atmospheric Pressure: 1020	mbar
Test mode	a: TX mode modulation		JT in continuous	ly transmitting mode with GFSK	

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.7 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

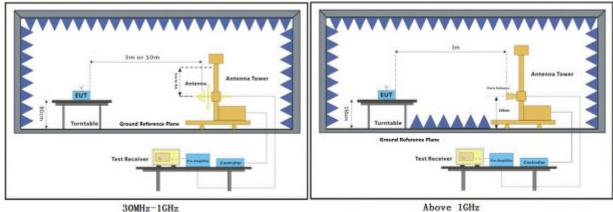
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature:23.6 °CHumidity:66.7 % RHAtmospheric Pressure:1020mbarTest modea: TX mode_Keep two wireless module in continuously transmitting mode with
GFSK modulationGFSK modulation

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: 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

Remark: Both of two wireless are working in the this test.



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Measure data: Low Channel; Horizontal

	Freq		Antenna Factor dB/m		Factor		Line		Pol/Phase	Remark
1	2310.000	31.81	26.25	5.03	37.44	25.65	54.00	-28.35	HORIZONTAL	Average
2	2310.000	46.33	26.25	5.03	37.44	40.17	74.00	-33.83	HORIZONTAL	Peak
3	2390.000	36.31	26.43	4.88	37.42	30.20	54.00	-23.80	HORIZONTAL	Average
4	2390.000	52.56	26.43	4.88	37.42	46.45	74.00	-27.55	HORIZONTAL	Peak
5	2483.500	31.07	26.58	5.23	37.40	25.48	54.00	-28.52	HORIZONTAL	Average
6	2483.500	47.70	26.58	5.23	37.40	42.11	74.00	-31.89	HORIZONTAL	Peak
7	2500.000	31.94	26.60	4.95	37.39	26.10	54.00	-27.90	HORIZONTAL	Average
8	2500.000	47.11	26.60	4.95	37.39	41.27	74.00	-32.73	HORIZONTAL	Peak

Low Channel; Vertical

	Freq		ntenna Factor					Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	32.28	26.25	5.03	37.44	26.12	54.00	-27.88	VERTICAL	Average
2	2310.000	47.13	26.25	5.03	37.44	40.97	74.00	-33.03	VERTICAL	Peak
3	2390.000	36.15	26.43	4.88	37.42	30.04	54.00	-23.96	VERTICAL	Average
4	2390.000	51.16	26.43	4.88	37.42	45.05	74.00	-28.95	VERTICAL	Peak
5	2483.500	34.81	26.58	5.23	37.40	29.22	54.00	-24.78	VERTICAL	Average
6	2483.500	50.09	26.58	5.23	37.40	44.50	74.00	-29.50	VERTICAL	Peak
7	2500.000	35.87	26.60	4.95	37.39	30.03	54.00	-23.97	VERTICAL	Average
8	2500.000	49.14	26.60	4.95	37.39	43.30	74.00	-30.70	VERTICAL	Peak



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High Channel; Horizontal

,	Freq	ReadAntenna Level Factor dBuV dB/m			Factor		Line		Pol/Phase	Remark
1 2 4 5 6 7 8	2390.000 2483.500 2483.500 2500.000	47.20 30.08 47.08 51.95 65.92 45.50	26.25 26.43 26.43 26.58 26.58 26.60 26.60	5.03 4.88 4.88 5.23 5.23 4.95	37.44 37.42 37.42 37.40 37.40 37.39	41.04 23.97 40.97 46.36 60.33 39.66	74.00 54.00 74.00 54.00 74.00 54.00	-32.96 -30.03 -33.03 -7.64 -13.67 -14.34	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL	Peak Average Peak Average Peak Average

High Channel; Vertical

-	Freq		Factor dB/m		Factor		Line	Over Limit	Pol/Phase	Remark
1 2 3 4 5 6 7 8	2310.000 2310.000 2390.000 2390.000 2483.500 2483.500 2500.000 2500.000	29.16 45.87 30.77 46.40	26.25 26.25 26.43 26.43 26.58 26.58	5.03 5.03 4.88 4.88 5.23 5.23 4.95 4.95	37.44 37.44 37.42 37.42 37.40 37.40 37.39	23.00 39.71 24.66 40.29 39.11 65.33 38.33	54.00 74.00 54.00 74.00 54.00 74.00 54.00	-31.00 -34.29 -29.34 -33.71 -14.89 -8.67 -15.67	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL	Average Peak Average Peak Average Peak Average Peak



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7.8 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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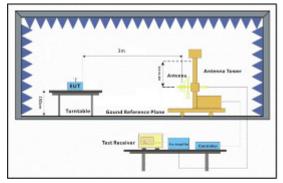
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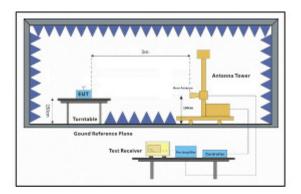
7.8.1 E.U.T. Operation

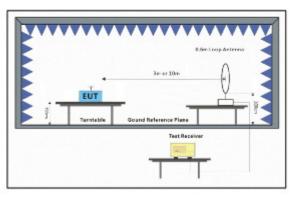
Operating Environment:

Temperature: 66.7 % RH Atmospheric Pressure: 1020 23.6 °C Humidity: mbar Test mode a: TX mode_Keep two wireless module in continuously transmitting mode with **GFSK** modulation

7.8.2 Test Setup Diagram









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7.8.3 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

Remark: Both of two wireless are working in the this test.



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Measure data: Low Channel;30M-1GHz;Horizontal

	Freq		Antenna Factor						Pol/Phase	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		1.
1	33.917	32.90	12.34	0.20	22.53	22.91	40.00	-17.09	HORIZONTAL	QP
2	71.832	28.97	10.50	0.73	25.58	14.62	40.00	-25.38	HORIZONTAL	QP
3	142.324	31.52	13.13	1.06	28.15	17.56	43.50	-25.94	HORIZONTAL	QP
4	254.728	36.41	12.64	1.63	29.10	21.58	46.00	-24.42	HORIZONTAL	QP
5	404.667	40.40	16.45	2.19	29.79	29.25	46.00	-16.75	HORIZONTAL	QP
6	881.407	29.10	23.84	2.90	28.16	27.68	46.00	-18.32	HORIZONTAL	QP

Low Channel;30M-1GHz;Vertical

	Freq		ntenna Factor						Pol/Phase	Remark
7	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	66.266	33.60	11.22	0.68	25.43	20.07	40.00	-19.93	VERTICAL	QP
2	96.099	33.94	8.97	0.85	27.01	16.75	43.50	-26.75	VERTICAL	QP
3	144.335	31.51	13.15	1.09	28.15	17.60	43.50	-25.90	VERTICAL	QP
4	225.308	41.69	11.72	1.15	28.83	25.73	46.00	-20.27	VERTICAL	QP
5	403.250	40.69	16.43	2.21	29.80	29.53	46.00	-16.47	VERTICAL	QP
6	922.516	29.43	24.20	3.72	28.40	28.95	46.00	-17.05	VERTICAL	QP



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Low Channel; Above 1GHz; Horizontal

	Freq		Antenna Factor			Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		10.
1	3823.371	32.58	29.08	7.83	36.91	32.58	54.00	-21.42	HORIZONTAL	Average
2	3823.371	45.40	29.08	7.83	36.91	45.40	74.00	-28.60	HORIZONTAL	Peak
3	4804.110	32.33	30.79	5.87	36.94	32.05	54.00	-21.95	HORIZONTAL	Average
4	4804.110	46.23	30.79	5.87	36.94	45.95	74.00	-28.05	HORIZONTAL	Peak
5	7206.906	31.47	35.45	7.34	36.93	37.33	54.00	-16.67	HORIZONTAL	Average
6	7206.906	44.20	35.45	7.34	36.93	50.06	74.00	-23.94	HORIZONTAL	Peak
7	8319.836	32.18	36.22	8.15	36.92	39.63	54.00	-14.37	HORIZONTAL	Average
8	8319.836	45.49	36.22	8.15	36.92	52.94	74.00	-21.06	HORIZONTAL	Peak
9	9608.272	31.84	37.51	8.15	37.08	40.42	54.00	-13.58	HORIZONTAL	Average
10	9608.272	45.11	37.51	8.15	37.08	53.69	74.00	-20.31	HORIZONTAL	Peak
11	12010.210	27.48	39.50	10.67	37.20	40.45	54.00	-13.55	HORIZONTAL	Average
12	12010.210	40.85	39.50	10.67	37.20	53.82	74.00	-20.18	HORIZONTAL	Peak

Low Channel; Above 1GHz; Vertical

	Freq	ReadAntenna Level Factor		Cable Preamp Loss Factor				Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3703.723	30.60	28.52	7.24	36.93	29.43	54.00	-24.57	VERTICAL	Average
2	3703.723	44.63	28.52	7.24	36.93	43.46	74.00	-30.54	VERTICAL	Peak
3	4804.241	30.00	30.79	5.87	36.94	29.72	54.00	-24.28	VERTICAL	Average
4	4804.241	45.04	30.79	5.87	36.94	44.76	74.00	-29.24	VERTICAL	Peak
5	7206.015	30.33	35.45	7.34	36.93	36.19	54.00	-17.81	VERTICAL	Average
6	7206.015	44.93	35.45	7.34	36.93	50.79	74.00	-23.21	VERTICAL	Peak
7	8866.062	29.31	36.42	8.09	36.99	36.83	54.00	-17.17	VERTICAL	Average
8	8866.062	45.36	36.42	8.09	36.99	52.88	74.00	-21.12	VERTICAL	Peak
9	9608.925	29.53	37.51	8.15	37.08	38.11	54.00	-15.89	VERTICAL	Average
10	9608.925	44.45	37.51	8.15	37.08	53.03	74.00	-20.97	VERTICAL	Peak
11	12010.700	26.19	39.50	10.67	37.20	39.16	54.00	-14.84	VERTICAL	Average
12	12010.700	41.40	39.50	10.67	37.20	54.37	74.00	-19.63	VERTICAL	Peak



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Middle Channel; Above 1GHz;Horizontal

	Freq		Antenna Factor		Preamp Factor		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3823.371	31.61	29.08	7.83	36.91	31.61	54.00	-22.39	HORIZONTAL	Average
2	3823.371	44.47	29.08	7.83	36.91	44.47	74.00	-29.53	HORIZONTAL	Peak
3	4880.049	36.15	30.93	6.66	36.95	36.79	54.00	-17.21	HORIZONTAL	Average
4	4880.049	49.16	30.93	6.66	36.95	49.80	74.00	-24.20	HORIZONTAL	Peak
5	7320.150	28.14	35.74	7.39	36.92	34.35	54.00	-19.65	HORIZONTAL	Average
6	7320.150	43.86	35.74	7.39	36.92	50.07	74.00	-23.93	HORIZONTAL	Peak
7	8319.836	29.00	36.22	8.15	36.92	36.45	54.00	-17.55	HORIZONTAL	Average
8	8319.836	44.09	36.22	8.15	36.92	51.54	74.00	-22.46	HORIZONTAL	Peak
9	9760.916	25.89	37.70	8.33	37.09	34.83	54.00	-19.17	HORIZONTAL	Average
10	9760.916	44.86	37.70	8.33	37.09	53.80	74.00	-20.20	HORIZONTAL	Peak
11	12200.380	23.33	39.27	10.93	37.06	36.47	54.00	-17.53	HORIZONTAL	Average
12	12200.380	40.46	39.27	10.93	37.06	53.60	74.00	-20.40	HORIZONTAL	Peak

Middle Channel; Above 1GHz; Vertical

	Freq			Cable Preamp Loss Factor				Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4157.664	31.78	29.66	6.72	36.90	31.26	54.00	-22.74	VERTICAL	Average
2	4157.664	45.40	29.66	6.72	36.90	44.88	74.00	-29.12	VERTICAL	Peak
3	4880.662	32.32	30.93	6.66	36.95	32.96	54.00	-21.04	VERTICAL	Average
4	4880.662	46.83	30.93	6.66	36.95	47.47	74.00	-26.53	VERTICAL	Peak
5	7320.267	27.38	35.74	7.39	36.92	33.59	54.00	-20.41	VERTICAL	Average
6	7320.267	43.69	35.74	7.39	36.92	49.90	74.00	-24.10	VERTICAL	Peak
7	8738.852	27.50	36.30	7.98	36.96	34.82	54.00	-19.18	VERTICAL	Average
8	8738.852	44.34	36.30	7.98	36.96	51.66	74.00	-22.34	VERTICAL	Peak
9	9760.349	29.12	37.70	8.33	37.09	38.06	54.00	-15.94	VERTICAL	Average
10	9760.349	46.08	37.70	8.33	37.09	55.02	74.00	-18.98	VERTICAL	Peak
11	12200.600	26.96	39.27	10.93	37.06	40.10	54.00	-13.90	VERTICAL	Average
12	12200.600	41.15	39.27	10.93	37.06	54.29	74.00	-19.71	VERTICAL	Peak



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High Channel; Above 1GHz;Horizontal

	Freq		Antenna Factor			Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3735.978	33.95	28.70	7.50	36.92	33.23	54.00	-20.77	HORIZONTAL	Average
2	3735.978	46.36	28.70	7.50	36.92	45.64	74.00	-28.36	HORIZONTAL	Peak
3	4960.058	30.61	31.05	7.84	36.96	32.54	54.00	-21.46	HORIZONTAL	Average
4	4960.058	45.35	31.05	7.84	36.96	47.28	74.00	-26.72	HORIZONTAL	Peak
5	6835.278	28.67	34.89	7.21	36.96	33.81	54.00	-20.19	HORIZONTAL	Average
6	6835.278	43.87	34.89	7.21	36.96	49.01	74.00	-24.99	HORIZONTAL	Peak
7	7440.836	31.80	35.92	7.43	36.92	38.23	54.00	-15.77	HORIZONTAL	Average
8	7440.836	45.54	35.92	7.43	36.92	51.97	74.00	-22.03	HORIZONTAL	Peak
9	9920.432	30.05	37.92	8.63	37.10	39.50	54.00	-14.50	HORIZONTAL	Average
10	9920.432	44.11	37.92	8.63	37.10	53.56	74.00	-20.44	HORIZONTAL	Peak
11	12400.700	26.40	38.93	11.17	36.90	39.60	54.00	-14.40	HORIZONTAL	Average
12	12400.700	40.56	38.93	11.17	36.90	53.76	74.00	-20.24	HORIZONTAL	Peak

High Channel; Above 1GHz; Vertical

	Free		Antenna Factor		Preamp Factor	Level	Limit Line	Over	Pol/Phase	Remark
	Freq	Level	Factor	LOSS	Factor	Level	LTHE	LTWIC	POI/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4181.768	31.28	29.69	6.66	36.91	30.72	54.00	-23.28	VERTICAL	Average
2	4181.768	46.60	29.69	6.66	36.91	46.04	74.00	-27.96	VERTICAL	Peak
3	4960.662	29.95	31.05	7.84	36.96	31.88	54.00	-22.12	VERTICAL	Average
4	4960.662	44.41	31.05	7.84	36.96	46.34	74.00	-27.66	VERTICAL	Peak
5	7440.267	29.53	35.92	7.43	36.92	35.96	54.00	-18.04	VERTICAL	Average
6	7440.267	43.82	35.92	7.43	36.92	50.25	74.00	-23.75	VERTICAL	Peak
7	8789.516	28.61	36.35	8.02	36.97	36.01	54.00	-17.99	VERTICAL	Average
8	8789.516	44.28	36.35	8.02	36.97	51.68	74.00	-22.32	VERTICAL	Peak
9	9920.450	28.60	37.92	8.63	37.10	38.05	54.00	-15.95	VERTICAL	Average
10	9920.450	44.33	37.92	8.63	37.10	53.78	74.00	-20.22	VERTICAL	Peak
11	12400.420	27.13	38.93	11.17	36.90	40.33	54.00	-13.67	VERTICAL	Average
12	12400.420	41.51	38.93	11.17	36.90	54.71	74.00	-19.29	VERTICAL	Peak



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Appendix 8

8.1 Appendix 15.247-IC 1

1.6dB Bandwidth

Test Mode	Test Channel		OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.9442	0.8115	0.5	PASS
BLE	2440	Ant1	1.8079	0.8185	0.5	PASS
BLE	2480	Ant1	1.8201	0.8431	0.5	PASS



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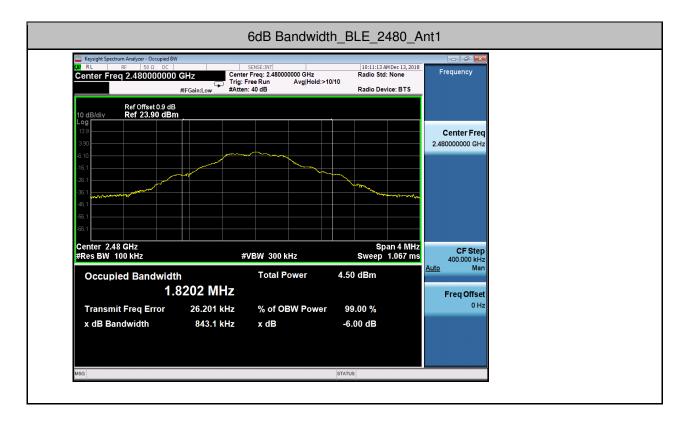
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2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-5.031	30	PASS
BLE	2440	Ant1	-3.808	30	PASS
BLE	2480	Ant1	-2.676	30	PASS



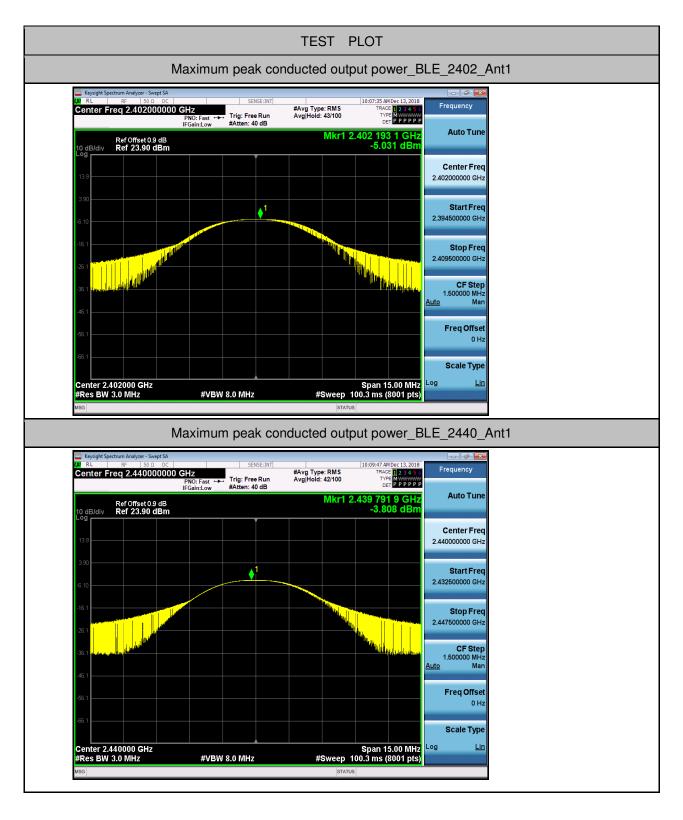
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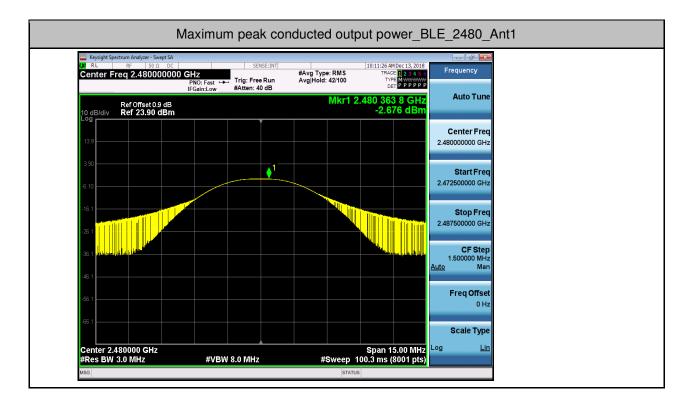
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3.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-19.533	8.00	PASS
BLE	2440	Ant1	-17.974	8.00	PASS
BLE	2480	Ant1	-14.862	8.00	PASS



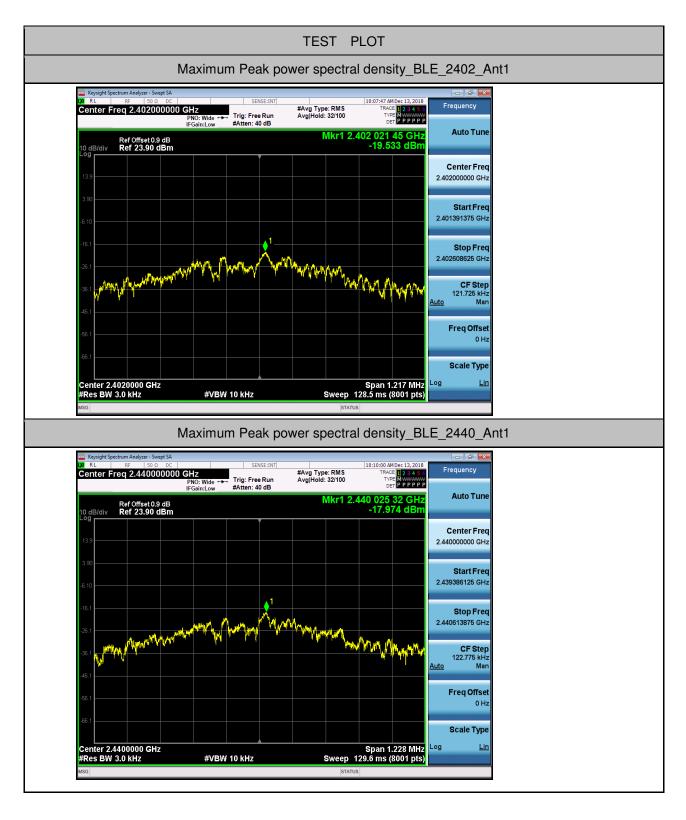
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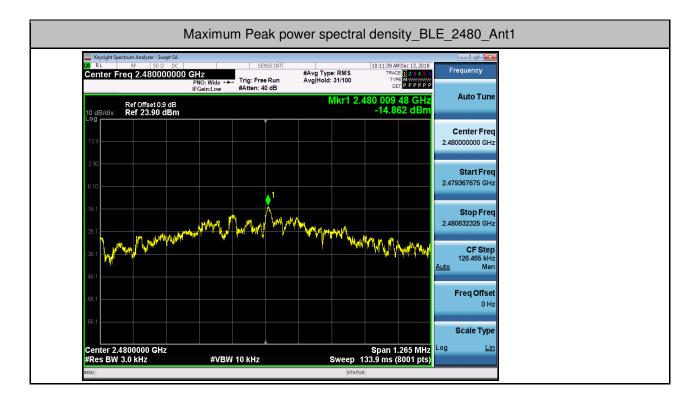
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4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-5.250	-49.492	-25.25	PASS
BLE	2480	Ant1	-2.644	-44.119	-22.64	PASS



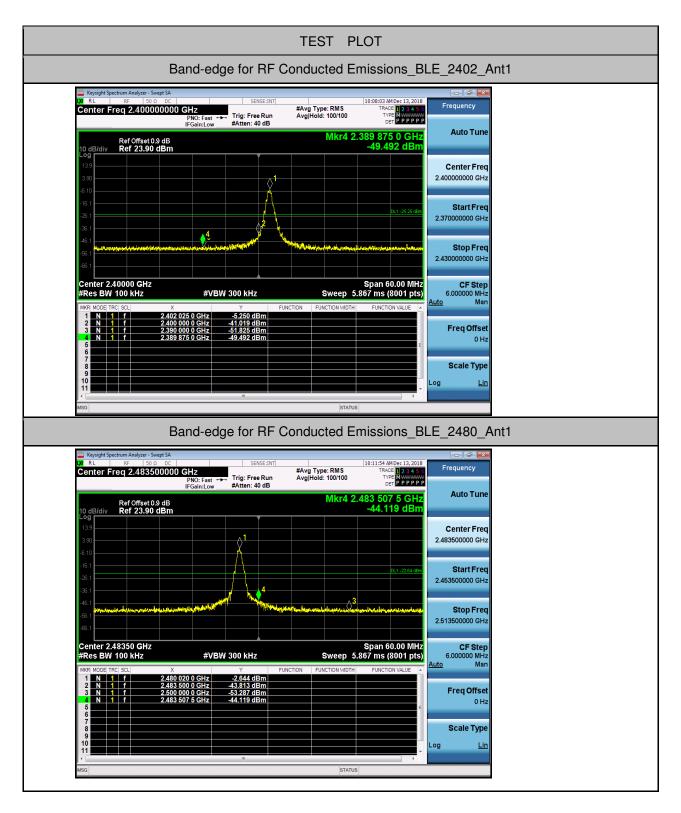
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5.RF Conducted Spurious Emissions

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	-5.321	-52.329	<- 25.321	PASS
BLE	2402	Ant1	10000	26000	100	300	-5.321	-52.461	<- 25.321	PASS
BLE	2440	Ant1	30	10000	100	300	-4.042	-50.499	<- 24.042	PASS
BLE	2440	Ant1	10000	26000	100	300	-4.042	-51.838	<- 24.042	PASS
BLE	2480	Ant1	30	10000	100	300	-2.862	-54.082	<- 22.862	PASS
BLE	2480	Ant1	10000	26000	100	300	-2.862	-52.483	<- 22.862	PASS



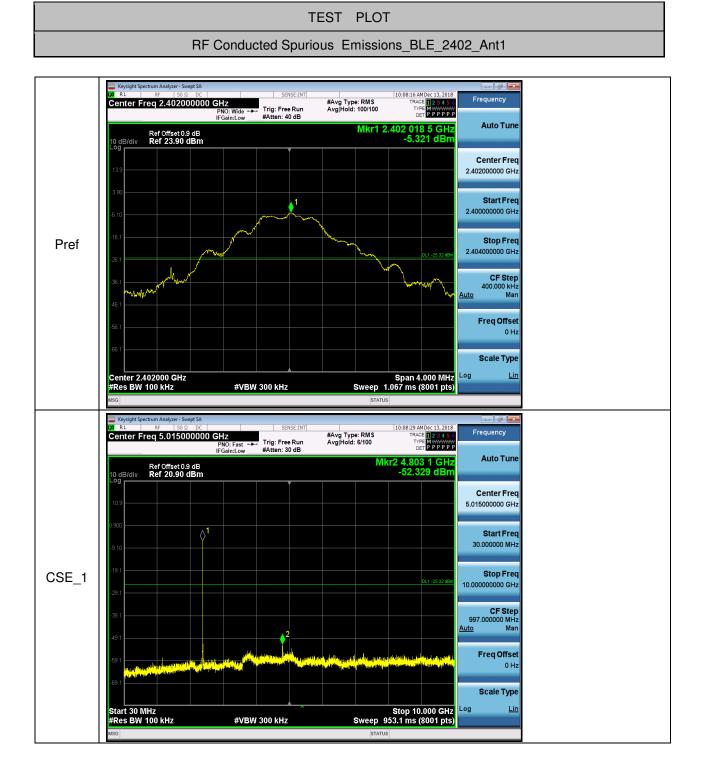
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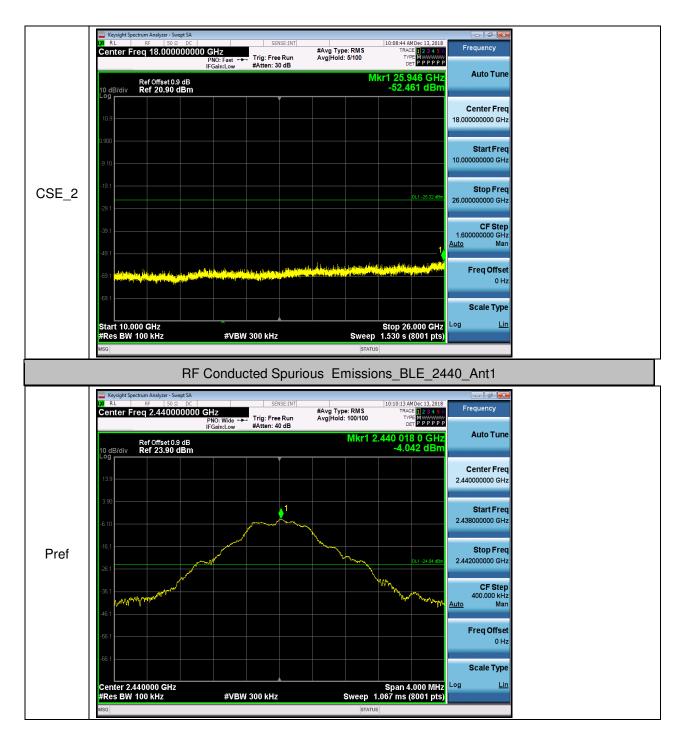
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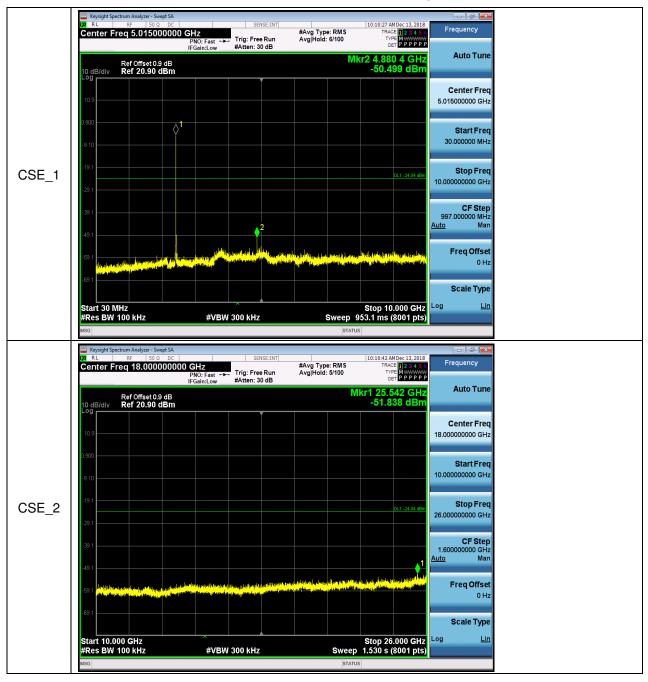
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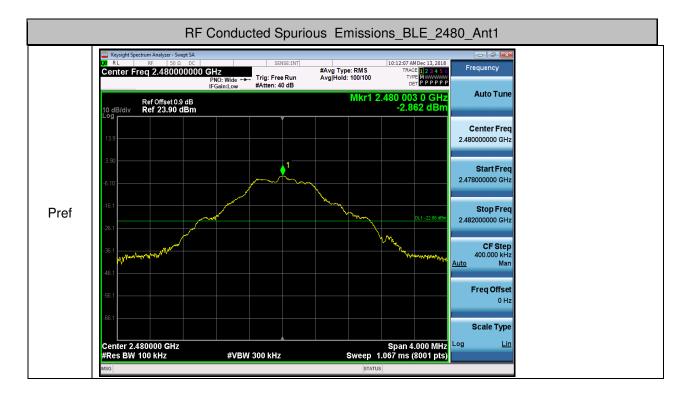
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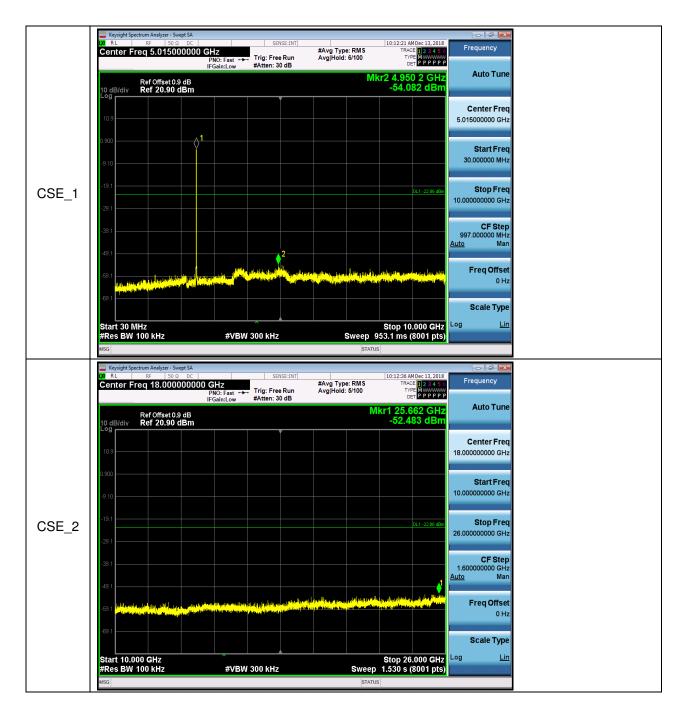
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8.2 Appendix 15.247-IC 2

1.6dB Bandwidth

Test Mode	Test Channel Ant		OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	2.1431	0.8202	0.5	PASS
BLE	2440	Ant1	1.9041	0.8148	0.5	PASS
BLE	2480	Ant1	1.8290	0.8488	0.5	PASS



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2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-7.566	30	PASS
BLE	2440	Ant1	-6.538	30	PASS
BLE	2480	Ant1	-5.35	30	PASS



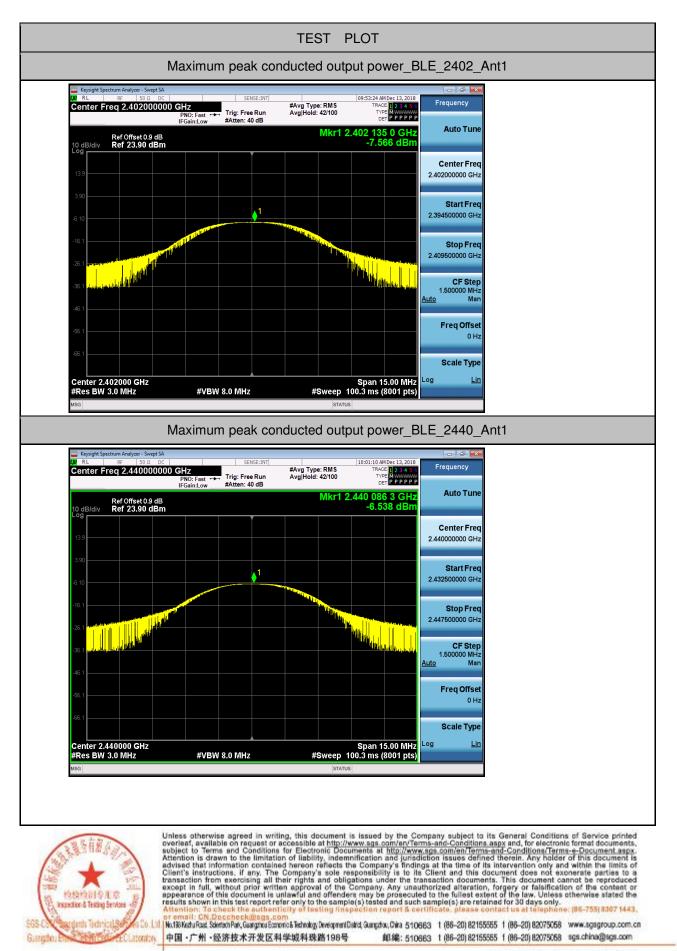
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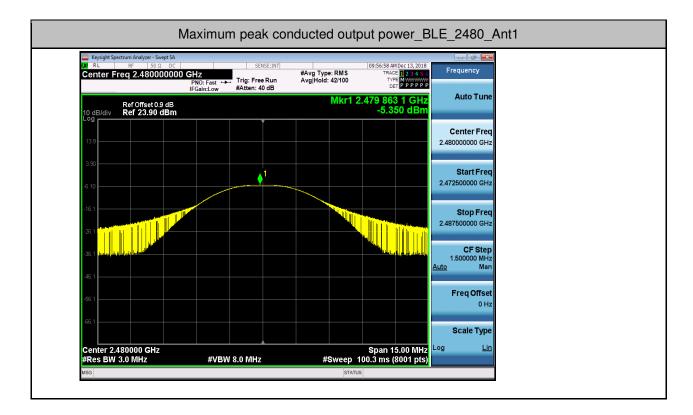


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3.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-23.498	8.00	PASS
BLE	2440	Ant1	-21.113	8.00	PASS
BLE	2480	Ant1	-18.604	8.00	PASS



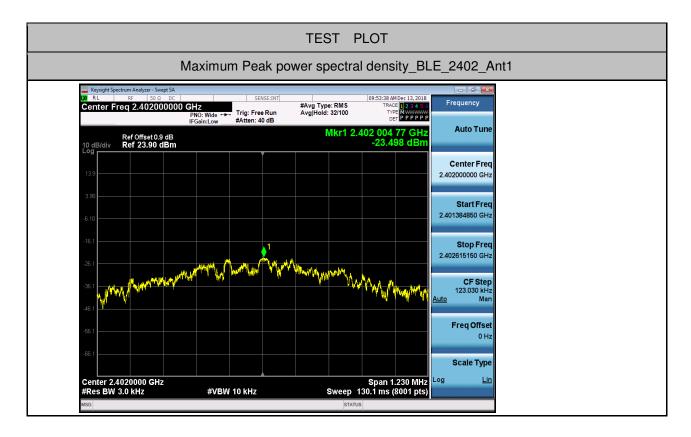
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4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-7.667	-49.294	-27.67	PASS
BLE	2480	Ant1	-5.363	-46.615	-25.36	PASS



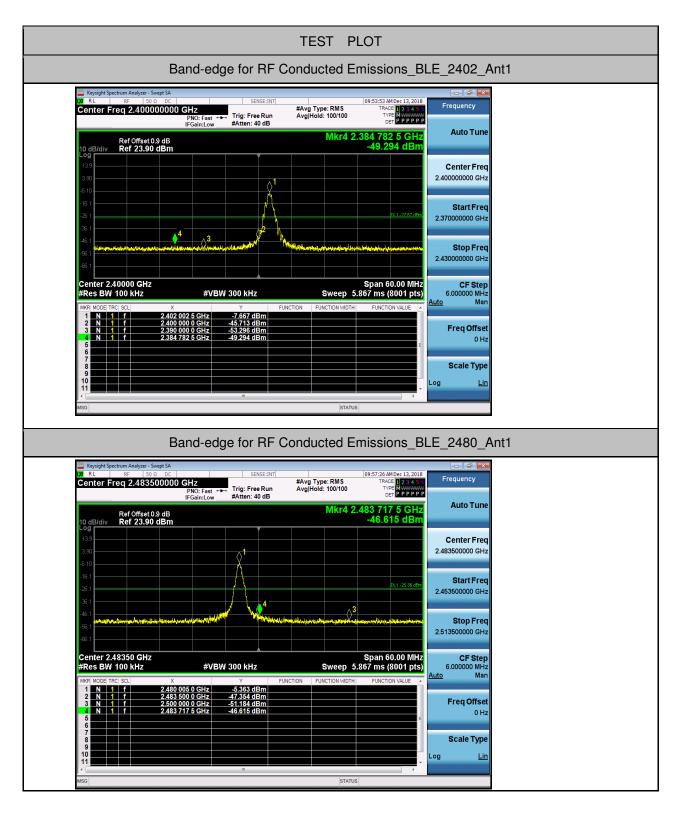
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5.RF Conducted Spurious Emissions

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	-7.887	-54.926	<- 27.887	PASS
BLE	2402	Ant1	10000	26000	100	300	-7.887	-51.973	<- 27.887	PASS
BLE	2440	Ant1	30	10000	100	300	-6.877	-54.774	<- 26.877	PASS
BLE	2440	Ant1	10000	26000	100	300	-6.877	-52.153	<- 26.877	PASS
BLE	2480	Ant1	30	10000	100	300	-5.649	-54.848	<- 25.649	PASS
BLE	2480	Ant1	10000	26000	100	300	-5.649	-52.264	<- 25.649	PASS



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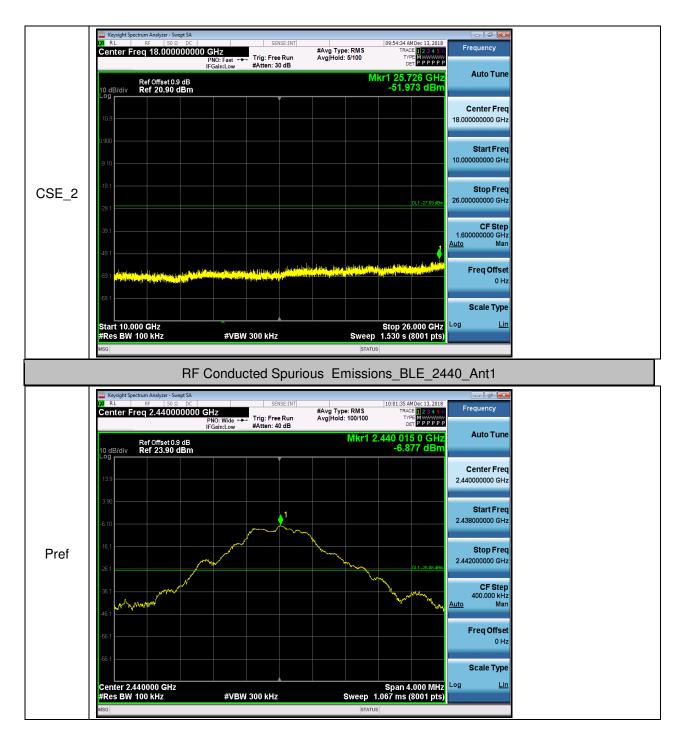
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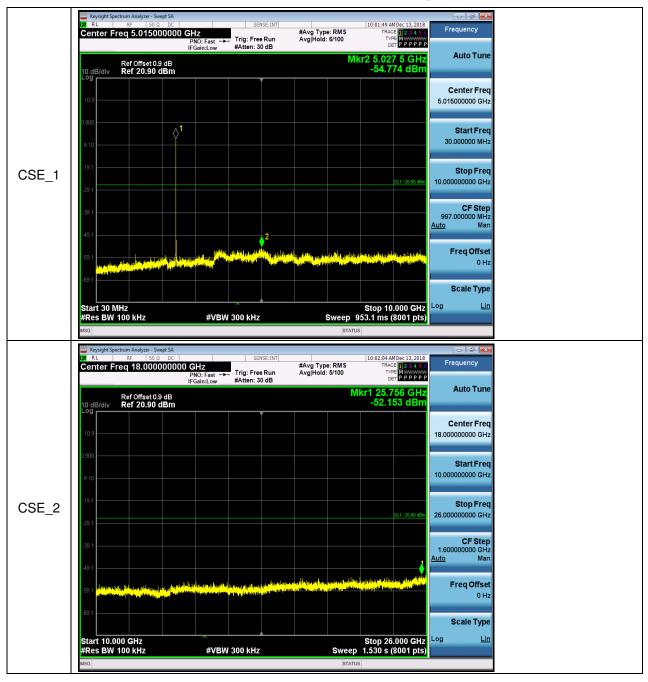
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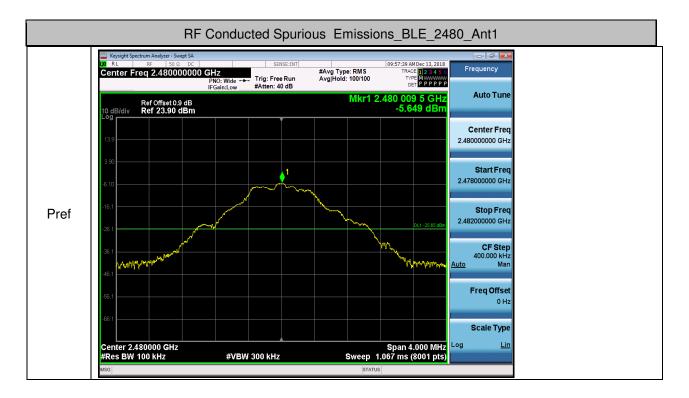
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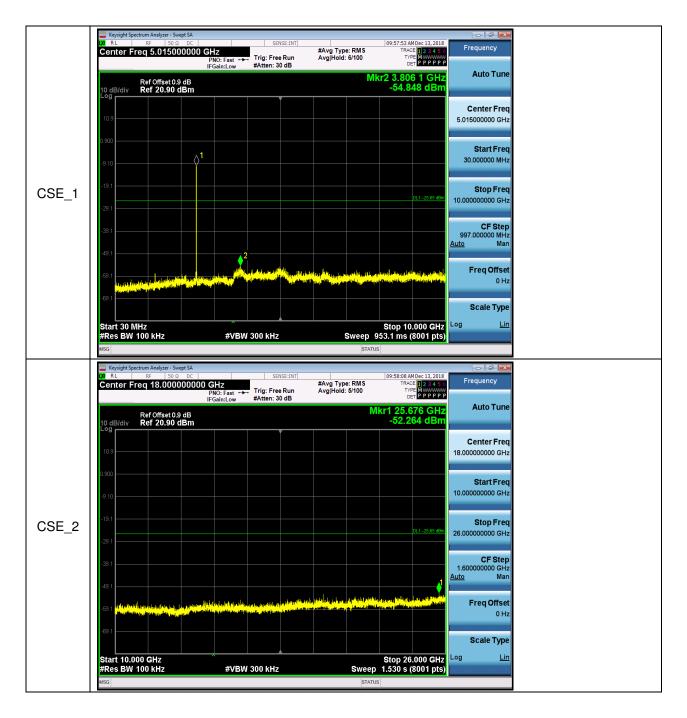
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