

Report No.: SHEM210600569001

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TEST REPORT

Application No.:SHEM2106005690CRFCC ID:2A2JH-GC840640

Applicant: NOAR BRASIL INDUSTRIA E COMERCIO DE FRAGRANCIAS DIGITAIS

LTDA

Address of Applicant: 122, Doctor Sodre Street – Nova Conceicao, Room 11, Sao Paulo, SP

04535-110, Brazil

Manufacturer: NOAR BRASIL INDUSTRIA E COMERCIO DE FRAGRANCIAS DIGITAIS

LTDA

Address of Manufacturer: 122, Doctor Sodre Street - Nova Conceicao, Room 11, Sao Paulo, SP

04535-110, Brazil

Factory: NOAR BRASIL INDUSTRIA E COMERCIO DE FRAGRANCIAS DIGITAIS

LTDA

Address of Factory: 122, Doctor Sodre Street – Nova Conceicao, Room 11, Sao Paulo, SP

04535-110, Brazil

Equipment Under Test (EUT):

EUT Name: Digital Fragrances Demonstrator

Model No.: MultiScent 20
Trade mark: NOAR BRASIL

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

Date of Receipt: 2021-06-07

Date of Test: 2021-06-16 to 2021-07-09

Date of Issue: 2021-07-19

Test Result: Pass*

when than

Parlam Zhan 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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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version Description Date Ren							
00	Original	2021-07-19	/				

Authorized for issue by:	
	Bril Wu
	Bill Wu / Project Engineer
	Parlam Zhan
	Parlam Zhan / Reviewer



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2 Test Summary

Radio Spectrum Technical Requirement								
Item	Standard	Method	Requirement	Result				
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass				

Radio Spectrum Matte	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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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V 1000mA or DC 3.7V ,1800mAh from Battery

Test voltage: AC 120V 60Hz

Antenna Gain: 0dBi (Provided by manufacturer)

Antenna Type: PCB Antenna

Bluetooth Version: V5.0 LE

Data Rate: 1Mb/s ,2Mb/s

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.
Laptop	Lenovo	ThinkPad X100e	1
Adapter	1	WJG-Y060501000L	1

4.3 Power level setting using in test:

	<u> </u>
Channel	Level
00(2402)	31(+6dBm)
19(2440)	31(+6dBm)
39(2480)	31(+6dBm)



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	8.4 x 10 ⁻⁸		
2	Timeout	2s		
3	Duty Cycle	0.37%		
4	Occupied Bandwidth	3%		
5	RF Conducted Power	0.6dB		
6	RF Power Density	2.9dB		
7	Conducted Spurious Emissions	0.75dB		
0	DC Dedicted Dever	5.2dB (Below 1GHz)		
8	RF Radiated Power	5.9dB (Above 1GHz)		
		4.2dB (Below 30MHz)		
0	De liste I Occasione Facilities Total	4.5dB (30MHz-1GHz)		
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)		
		5.4dB (Above 18GHz)		
10	Temperature Test	1°C		
11	Humidity Test	3%		
12	Supply Voltages	1.5%		
13	Time	3%		

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Equipment LIST	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at Ma			inventory NO	Cai Dale	cai Due Date
	R&S	ESR7	SHEM162-1	2020-12-20	2021-12-19
EMI test receiver LISN	Schwarzbeck	NSLK8127		2020-12-20	2021-12-19
			SHEM061-1		
LISN	EMCO	3816/2	SHEM019-1	2020-12-20	2021-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2020-12-20	2021-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2020-12-20	2021-12-19
CE test Cable	/	CE01	/	2020-12-20	2021-12-19
Test software	ESE	E3	Version: 6.11122	1	/
lest software	ESE	ES	0.11122 a	,	/
RF Conducted Test			а		1
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2020-08-13	2021-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2020-08-13	2021-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2020-08-13	2021-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2020-08-13	2021-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2020-08-13	2021-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2020-08-13	2021-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	1	1
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2018-09-25	2021-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2020-12-20	2021-03-24
DC Power Supply	MCH	MCH-303A	SHEM210-1	2020-12-20	2021-12-19
Conducted test Cable	/	RF01~RF04	J ILIVIZ 10-1	2020-12-20	2021-12-19
Conducted test Cable	,	JS Tonscend	/	2020-12-20	2021-12-19
Test software	Tonscend	BT/WIFI	Version: 2.6	1	/
		System			·
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2020-12-20	2021-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2020-12-20	2021-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2020-04-30	2022-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2018-10-24	2021-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2018-10-31	2021-10-30
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2020-08-13	2021-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2020-08-13	2021-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2020-12-20	2021-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2020-08-13	2021-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	1	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	1	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	1	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	1	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2020-12-20	2021-12-19
			Version:		
Test software	ESE	E3	6.1112	/	/
•		l	21a		



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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(b)(4)

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

Antenna location: Refer to Appendix (Internal Photos)



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7 Radio Spectrum Matter Test Results

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

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

Limit:

Eroguanay of amission (MU=)	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.				

7.1.1 E.U.T. Operation

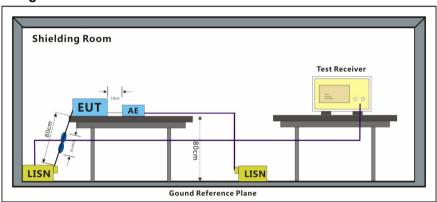
Operating Environment:

Temperature: 22 °C Humidity: 50 % 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





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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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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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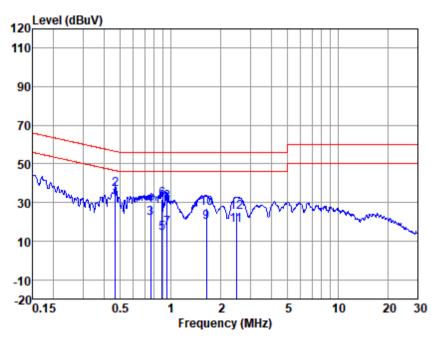
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Mode:a; Line:Live Line



LISN : LINE EUT/Project No : 5689CR

Test Mode : a

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.47	21.35	0.20	9.93	31.48	46.58	-15.10	Average
2	0.47	26.48	0.20	9.93	36.61	56.58	-19.97	QP
3	0.76	11.58	0.20	9.90	21.68	46.00	-24.32	Average
4	0.76	18.70	0.20	9.90	28.80	56.00	-27.20	QP
5	0.89	4.24	0.20	9.90	14.34	46.00	-31.66	Average
6	0.89	21.48	0.20	9.90	31.58	56.00	-24.42	QP
7	0.95	6.66	0.20	9.90	16.76	46.00	-29.24	Average
8	0.95	20.10	0.20	9.90	30.20	56.00	-25.80	QP
9	1.64	9.75	0.20	9.93	19.88	46.00	-26.12	Average
10	1.64	16.85	0.20	9.93	26.98	56.00	-29.02	QP
11	2.47	8.23	0.20	9.96	18.39	46.00	-27.61	Average
12	2.47	14.83	0.20	9.96	24.99	56.00	-31.01	QP

Notes: Emission Level = Read Level +LISN Factor + Cable loss



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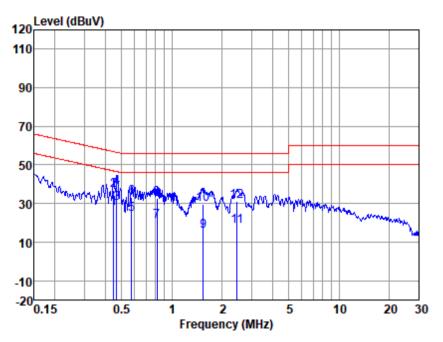
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Mode:a; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 5689CR

Test Mode : a

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.45	17.32	0.20	9.93	27.45	46.89	-19.44	Average
2	0.45	26.50	0.20	9.93	36.63	56.89	-20.26	QP
3	0.47	20.00	0.20	9.93	30.13	46.54	-16.41	Average
4	0.47	28.15	0.20	9.93	38.28	56.54	-18.26	QP
5	0.58	14.08	0.20	9.92	24.20	46.00	-21.80	Average
6	0.58	22.86	0.20	9.92	32.98	56.00	-23.02	QP
7	0.81	10.63	0.20	9.90	20.73	46.00	-25.27	Average
8	0.81	22.73	0.20	9.90	32.83	56.00	-23.17	QP
9	1.54	5.49	0.20	9.92	15.61	46.00	-30.39	Average
10	1.54	19.46	0.20	9.92	29.58	56.00	-26.42	QP
11	2.46	7.96	0.20	9.96	18.12	46.00	-27.88	Average
12	2.46	21.17	0.20	9.96	31.33	56.00	-24.67	QP

Notes: Emission Level = Read Level +LISN Factor + Cable loss



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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

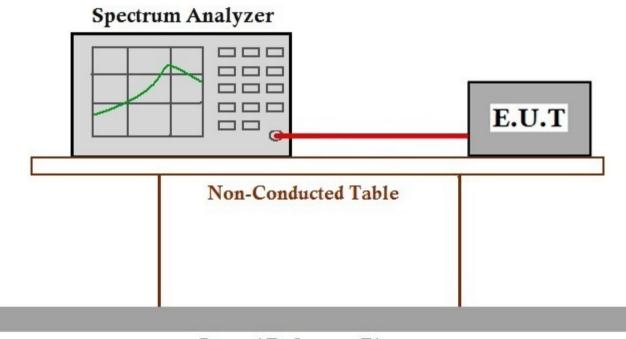
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 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 A for SHEM210600569001



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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

7.3.1 E.U.T. Operation

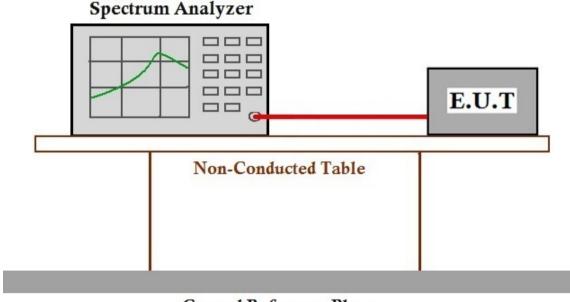
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 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 A for SHEM210600569001



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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: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.4.1 E.U.T. Operation

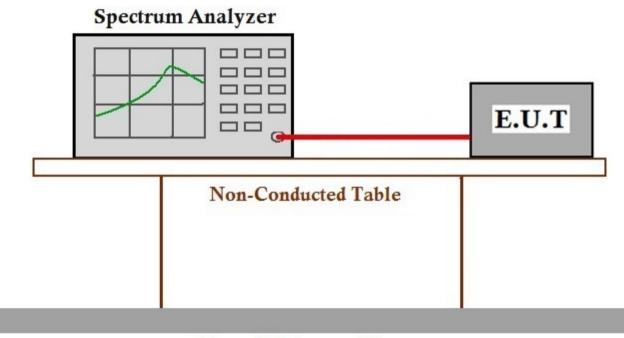
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 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 A for SHEM210600569001



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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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7.5.1 E.U.T. Operation

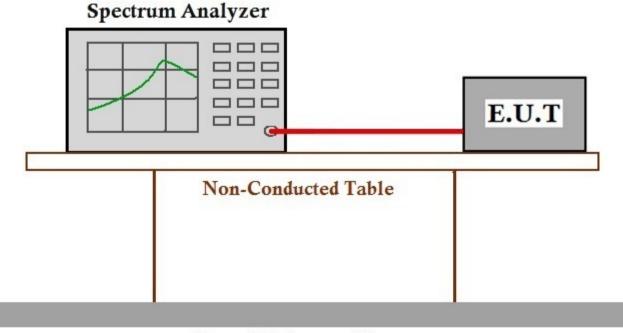
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 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 A for SHEM210600569001



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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

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

§15.209(a) (see §15.205(c)



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7.6.1 E.U.T. Operation

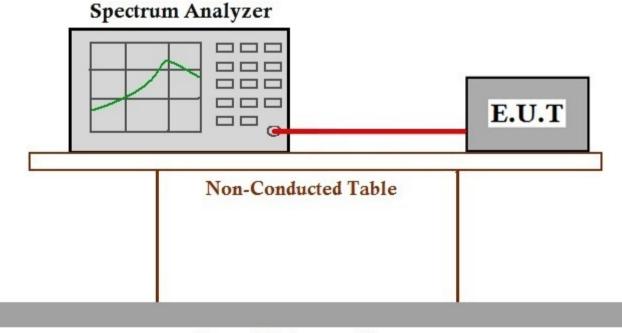
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600569001



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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

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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7.7.1 E.U.T. Operation

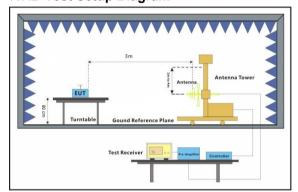
Operating Environment:

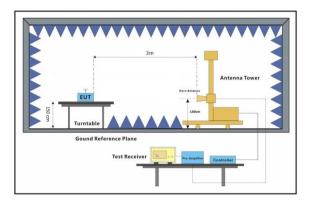
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

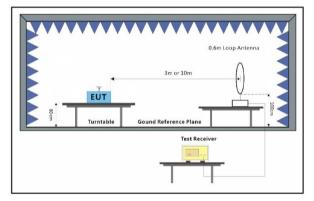
Test mode a:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

7.7.2 Test Setup Diagram









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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.



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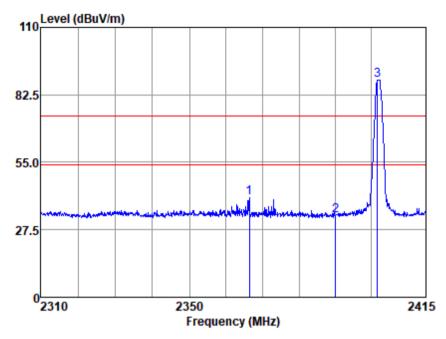




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1M

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



Antenna Polarity : HORIZONTAL EUT/Project :5690CR Test mode

		Read	Antenna	Cable	Preamp	Emission	ı Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2366.330	47.48	27.16	8.39	42.31	40.72	74.00	-33.28	Peak
2	2390.000	39.95	27.23	8.46	42.37	33.27	74.00	-40.73	Peak
3	2401.618	95.23	27.27	8.46	42.40	88.56	74.00	14.56	Peak

:2402MHz

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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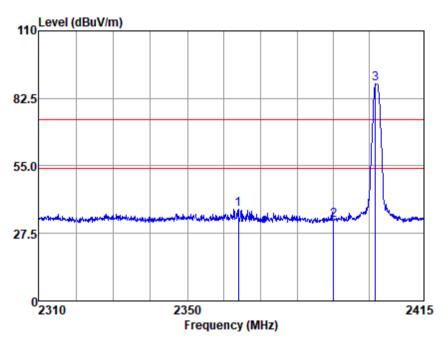
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2402MHz

	Freq		Antenna Factor						Remark
	MHZ	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2363.912	44.28	27.16	8.39	42.31	37.52	74.00	-36.48	Peak
2	2390.000	39.52	27.23	8.46	42.37	32.84	74.00	-41.16	Peak
3	2401.618	95.02	27.27	8.46	42.40	88.35	74.00	14.35	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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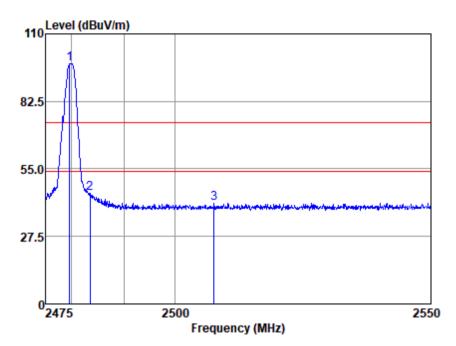
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Antenna Polarity :HORIZONTAL EUT/Project :5690CR Test mode :2480MHz

	Freq		Antenna Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2479.585		-			-	-		Peak
2	2483.500	51.22	27.55	8.60	42.40	44.97	74.00	-29.03	Peak
3	2507.500	47.07	27.62	8.67	42.40	40.96	74.00	-33.04	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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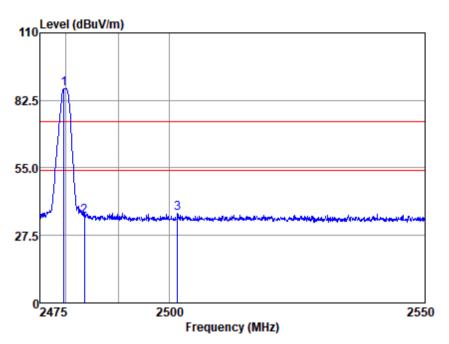
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2480MHz

	Freq					Emission Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2479.585	93.74	27.53	8.60	42.40	87.47	74.00	13.47	Peak
2	2483.511	41.74	27.55	8.60	42.40	35.49	74.00	-38.51	Peak
3	2501.518	42.70	27.60	8.67	42.40	36.57	74.00	-37.43	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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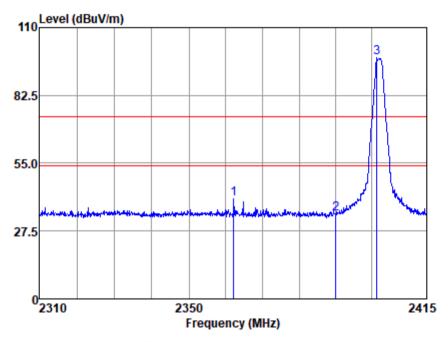




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2M

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



Antenna Polarity :HORIZONTAL EUT/Project :5690CR Test mode :2402MHz

	Freq		Antenna Factor						Remark
			dB/m						
1	2362.126	47.34	27.13	8.39	42.30	40.56	74.00	-33.44	Peak
2	2390.000	41.34	27.23	8.46	42.37	34.66	74.00	-39.34	Peak
3	2401.298	104.48	27.27	8.46	42.40	97.81	74.00	23.81	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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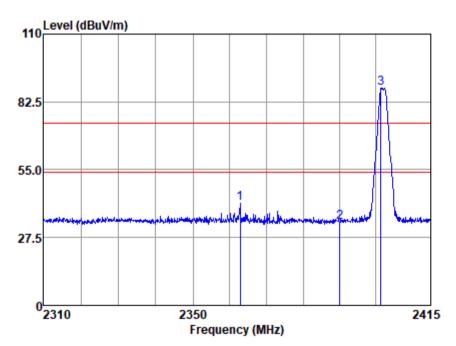
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2402MHz

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2362.757	48.28	27.13	8.39	42.30	41.50	74.00	-32.50	Peak
2	2390.000	40.26	27.23	8.46	42.37	33.58	74.00	-40.42	Peak
3	2401.298	94.90	27.27	8.46	42.40	88.23	74.00	14.23	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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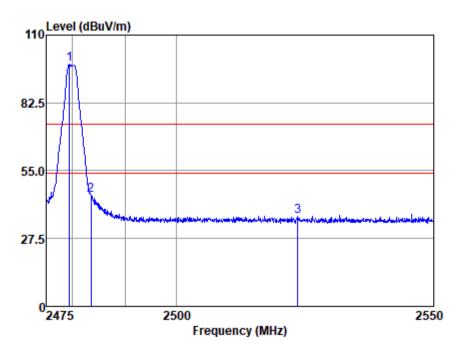
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Antenna Polarity :HORIZONTAL EUT/Project :5690CR Test mode :2480MHz

		Read	Antenna	Cable	Preamp	Emission	ı Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2479.363	104.31	27.53	8.60	42.40	98.04	74.00	24.04	Peak
2	2483.500	51.21	27.55	8.60	42.40	44.96	74.00	-29.04	Peak
3	2523.420	42.61	27.65	8.74	42.40	36.60	74.00	-37.40	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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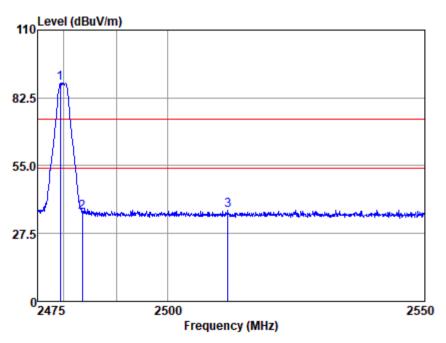
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2480MHz

	Freq		Antenna Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2479.289	94.65	27.53	8.60	42.40	88.38	74.00	14.38	Peak
2	2483.500	42.29	27.55	8.60	42.40	36.04	74.00	-37.96	Peak
3	2511.545	42.92	27.63	8.67	42.40	36.82	74.00	-37.18	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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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

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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7.8.1 E.U.T. Operation

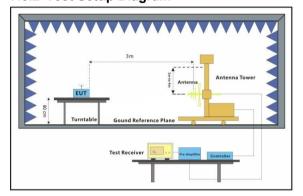
Operating Environment:

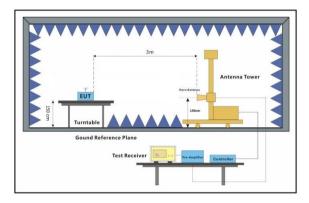
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

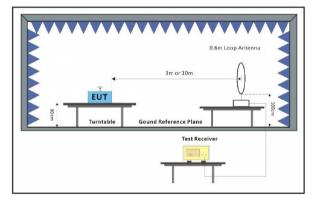
Test mode a:TX mode Keep the EUT in continuously transmitting mode with GFSK

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



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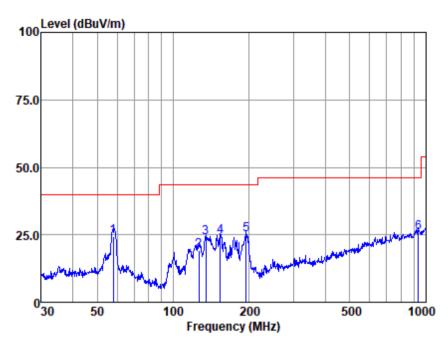




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Below 1GHz

Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :5689CR

Test mode :a

		Read	Antenna	Cable	Preamp	Emission	ı Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	57.796	41.70	13.23	1.09	31.73	24.29	40.00	-15.71	QP
2	126.329	37.46	11.52	1.69	31.65	19.02	43.50	-24.48	QP
3	134.559	41.69	12.13	1.76	31.70	23.88	43.50	-19.62	QP
4	153.739	40.77	13.02	1.89	31.32	24.36	43.50	-19.14	QP
5	194.453	44.42	10.22	2.20	31.77	25.07	43.50	-18.43	QP
6	935.546	29.16	23.84	4.89	32.05	25.84	46.00	-20.16	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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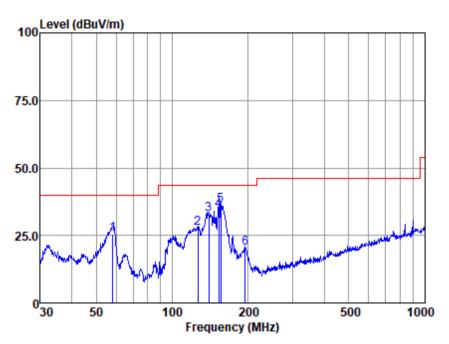
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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :5689CR

Test mode :a

		Read	Antenna	Cable	Preamp	Emissior	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	58.203	42.79	13.20	1.10	31.69	25.40	40.00	-14.60	QP
2	126.329	46.01	11.52	1.69	31.65	27.57	43.50	-15.93	QP
3	139.361	50.19	12.47	1.79	31.72	32.73	43.50	-10.77	QP
4	152.664	50.84	12.98	1.87	31.34	34.35	43.50	-9.15	QP
5	155.364	52.48	13.07	1.89	31.29	36.15	43.50	-7.35	QP
6	194.453	39.47	10.22	2.20	31.77	20.12	43.50	-23.38	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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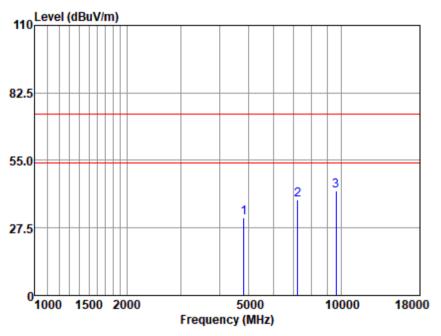




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Above 1GHz 1M

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



Antenna Polarity :HORIZONTAL

EUT/Project :5690CR Test mode :2402MHz

		Read	Antenna	a Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4804.000	30.27	31.22	12.62	42.40	31.71	74.00	-42.29	Peak
2	7206.000	30.08	36.34	15.28	42.74	38.96	74.00	-35.04	Peak
3	9608.000	30.78	38.21	16.48	42.66	42.81	74.00	-31.19	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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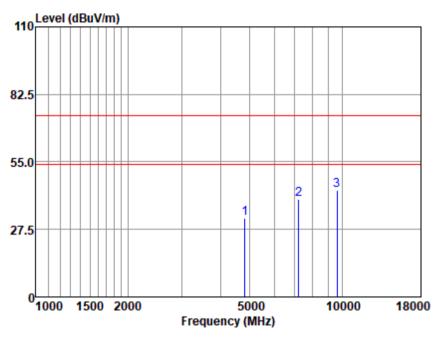
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2402MHz

	Freq					Emission Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4804.000	30.54	31.22	12.62	42.40	31.98	74.00	-42.02	Peak
2	7206.000	30.74	36.34	15.28	42.74	39.62	74.00	-34.38	Peak
3	9608.000	31.41	38.21	16.48	42.66	43.44	74.00	-30.56	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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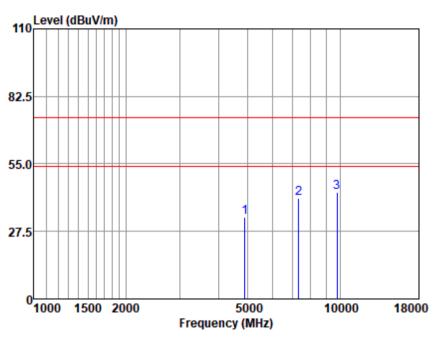
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Antenna Polarity :HORIZONTAL

EUT/Project :5690CR Test mode :2440MHz

	Freq					Emission Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4880.000	31.80	31.36	12.67	42.40	33.43	74.00	-40.57	Peak
2	7320.000	31.66	36.67	15.30	42.77	40.86	74.00	-33.14	Peak
3	9760.000	31.24	38.35	16.60	42.60	43.59	74.00	-30.41	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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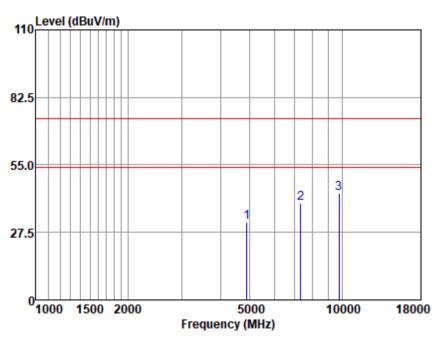
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2440MHz

	Freq					Emission Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4880.000	30.16	31.36	12.67	42.40	31.79	74.00	-42.21	Peak
2	7320.000	30.33	36.67	15.30	42.77	39.53	74.00	-34.47	Peak
3	9760.000	31.24	38.35	16.60	42.60	43.59	74.00	-30.41	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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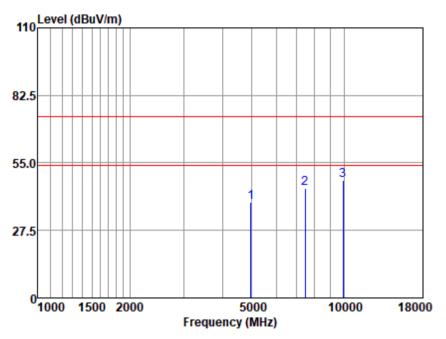
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Antenna Polarity :HORIZONTAL

EUT/Project :5690CR Test mode :2480MHz

		Read	Antenna	Cable	Preamp	Emission	ı Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4960.000	37.16	31.52	12.72	42.40	39.00	74.00	-35.00	Peak
2	7440.000	35.02	36.94	15.33	42.79	44.50	74.00	-29.50	Peak
3	9920.000	34.99	38.52	16.72	42.53	47.70	74.00	-26.30	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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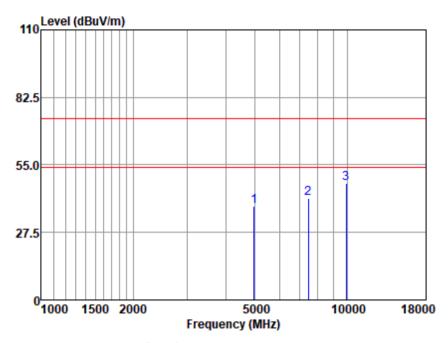
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2480MHz

	Freq					Emission Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4960.000	36.46	31.52	12.72	42.40	38.30	74.00	-35.70	Peak
2	7440.000	32.12	36.94	15.33	42.79	41.60	74.00	-32.40	Peak
3	9920.000	34.59	38.52	16.72	42.53	47.30	74.00	-26.70	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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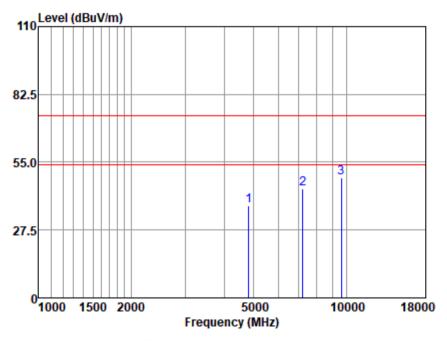




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2M

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



Antenna Polarity :HORIZONTAL EUT/Project :5690CR Test mode :2402MHz

	Freq					Emission Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4804.000	35.86	31.22	12.62	42.40	37.30	74.00	-36.70	Peak
2	7206.000	35.32	36.34	15.28	42.74	44.20	74.00	-29.80	Peak
3	9608.000	36.77	38.21	16.48	42.66	48.80	74.00	-25.20	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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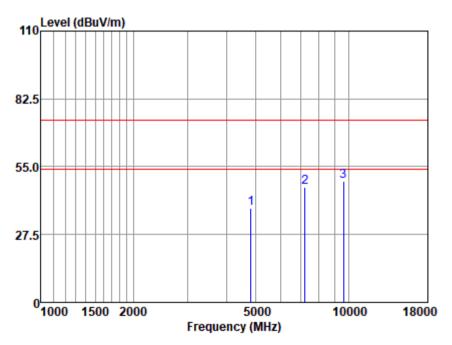
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2402MHz

	Freq					Emission Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4804.000								Peak
2	7206.000	37.92	36.34	15.28	42.74	46.80	74.00	-27.20	Peak
3	9608.000	37.17	38.21	16.48	42.66	49.20	74.00	-24.80	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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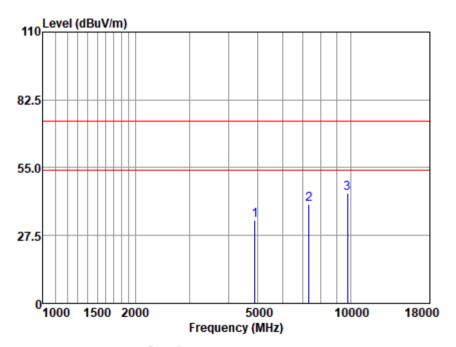
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Antenna Polarity :HORIZONTAL EUT/Project :5690CR Test mode :2440MHz

		Read	Antenna	a Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4880.000	32.07	31.36	12.67	42.40	33.70	74.00	-40.30	Peak
2	7320.000	31.00	36.67	15.30	42.77	40.20	74.00	-33.80	Peak
3	9760.000	32.45	38.35	16.60	42.60	44.80	74.00	-29.20	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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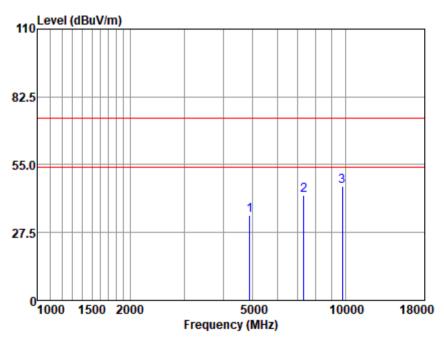
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2440MHz

		Read	Antenna	a Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4880.000	32.97	31.36	12.67	42.40	34.60	74.00	-39.40	Peak
2	7320.000	33.40	36.67	15.30	42.77	42.60	74.00	-31.40	Peak
3	9760.000	33.95	38.35	16.60	42.60	46.30	74.00	-27.70	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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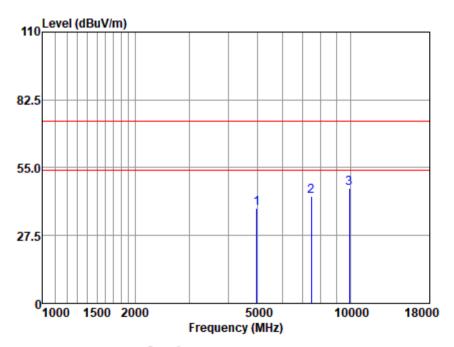
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Antenna Polarity :HORIZONTAL EUT/Project :5690CR

Test mode :2480MHz

		Read	Antenna	a Cable	Preamp	Emission	ı Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4960.000	36.86	31.52	12.72	42.40	38.70	74.00	-35.30	Peak
2	7440.000	34.12	36.94	15.33	42.79	43.60	74.00	-30.40	Peak
3	9920.000	34.09	38.52	16.72	42.53	46.80	74.00	-27.20	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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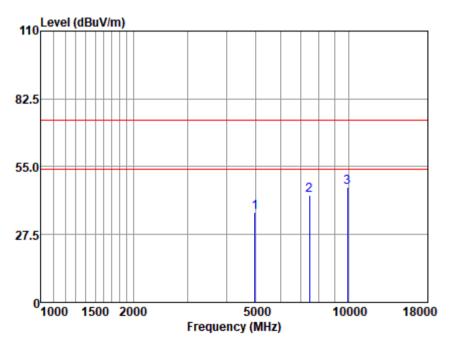
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Antenna Polarity :VERTICAL EUT/Project :5690CR Test mode :2480MHz

	Freq					Emissior Level			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4960.000	34.76	31.52	12.72	42.40	36.60	74.00	-37.40	Peak
2	7440.000	34.12	36.94	15.33	42.79	43.60	74.00	-30.40	Peak
3	9920.000	33.79	38.52	16.72	42.53	46.50	74.00	-27.50	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

Appendix A for SHEM210600569001

1.6dB Bandwidth

Total	T Ol	EBW	l innit	Manadia 4		
Test Mode	Test Channel	1M	2M	Limit	Verdict	
BLE	2402	0.68	1.15	0.5	PASS	
BLE	2440	0.68	1.16	0.5	PASS	
BLE	2480	0.68	1.17	0.5	PASS	



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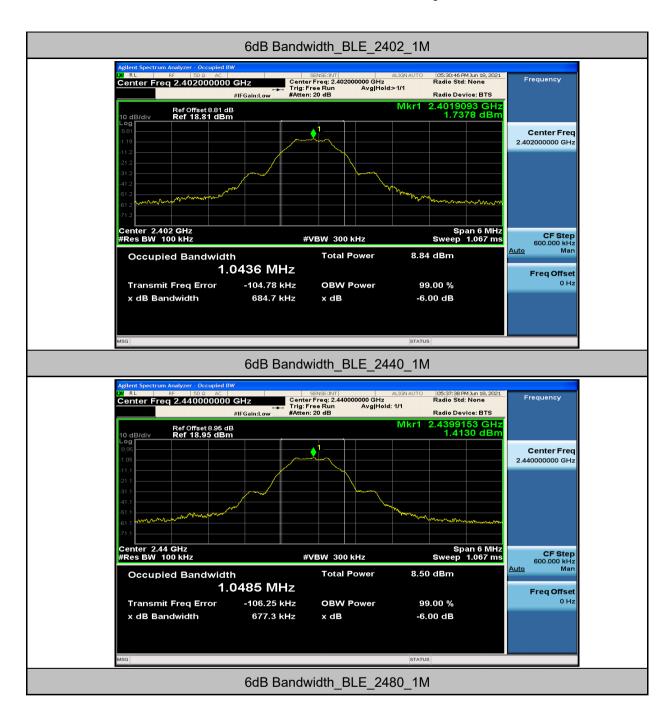
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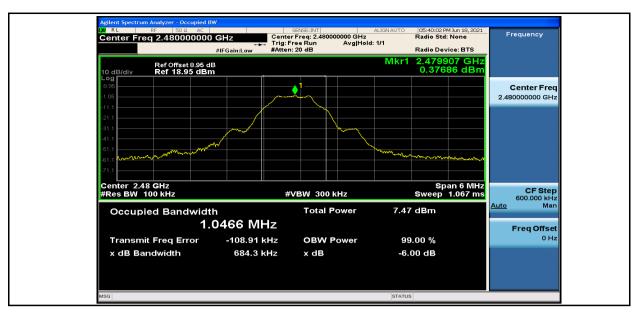
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2.Occupied Bandwidth

Test Mode	T (0)	OBW	[MHz]	L instant III	Verdict	
	Test Channel	1M	2M	Limit[MHz]		
BLE	2402	1.04	2.06		PASS	
BLE	2440	1.04	2.07		PASS	
BLE	2480	1.04	2.07		PASS	



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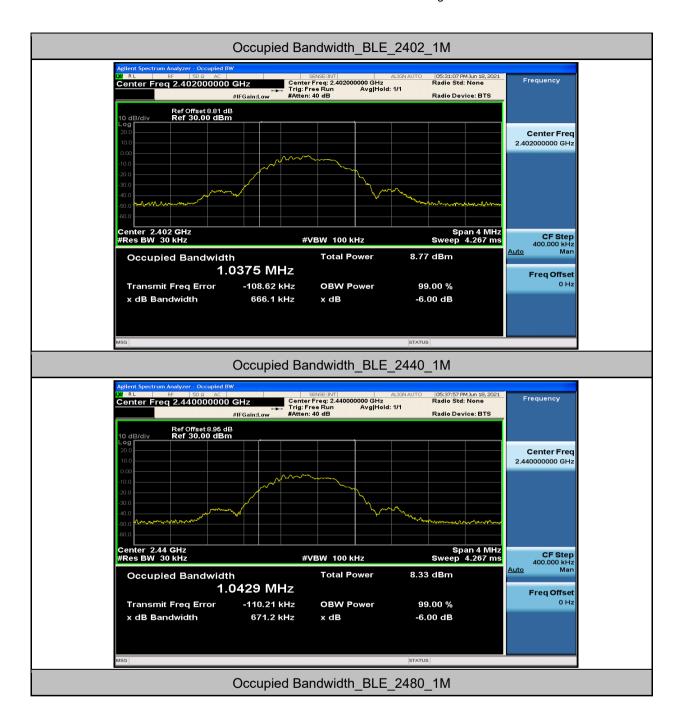
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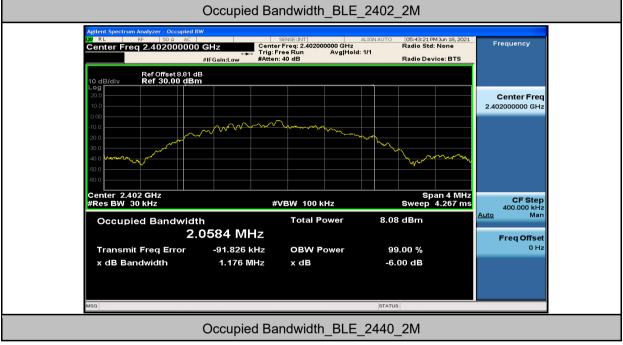
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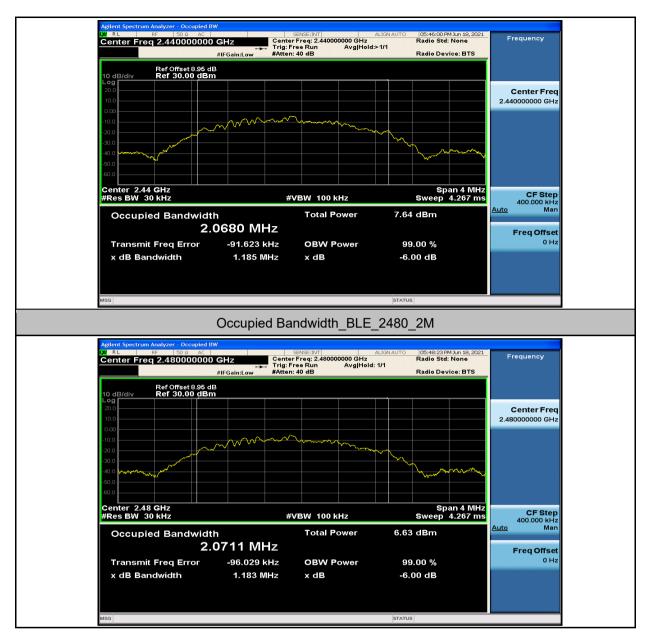
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Report No.: SHEM210600569001

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3.Maximum peak conducted output power

Test Mode	Test Channel	Power	r[dBm]	Limit[dBm]	Verdict
	Test Chamilei	1M	2M	Limitabini	
BLE	2402	2.3	2.32	30	PASS
BLE	2440	1.96	2.01	30	PASS
BLE	2480	0.97	1.01	30	PASS



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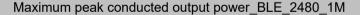
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Maximum peak conducted output power BLE 2402 1M RL RF 50 Ω AC Center Freq 2.402000000 GHz #Avg Type: RMS Avg|Hold: 10/10 Trig: Free Run #Atten: 20 dB TYPE MINAMANA DET P P P P P P Auto Tune 01 706 GHz 2.303 dBm Ref Offset 8.81 dB Ref 10.00 dBm Center Freq 2.389500000 GHz Stop Freq 2.414500000 GHz <mark>diporter d</mark>espuis, Laure, liste Freq Offset Center 2.40200 GHz #Res BW 3.0 MHz Span 25.00 MHz Sweep 1.067 ms (8001 pts) #VBW 8.0 MHz Maximum peak conducted output power BLE 2440 1M Agreement Ref SO Ω AC Center Freq 2.440000000 GHz PNO: Fast → Frig: Free Run Frig: Free Run #Atten: 20 dB Frequency #Avg Type: RMS Avg|Hold: 10/10 RACE 1 2 3 4 5 6 **Auto Tune** 39 772 GH2 1.962 dBm Ref Offset 8.95 dB Ref 10.00 dBm Center Freq 2.440000000 GHz 2.427500000 GHz **Stop Freq** 2.452500000 GHz Freq Offset



#VBW 8.0 MHz



Center 2.44000 GHz #Res BW 3.0 MHz

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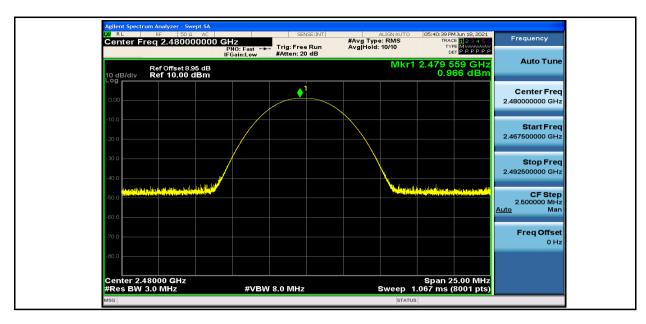
Span 25.00 MHz Sweep 1.067 ms (8001 pts)

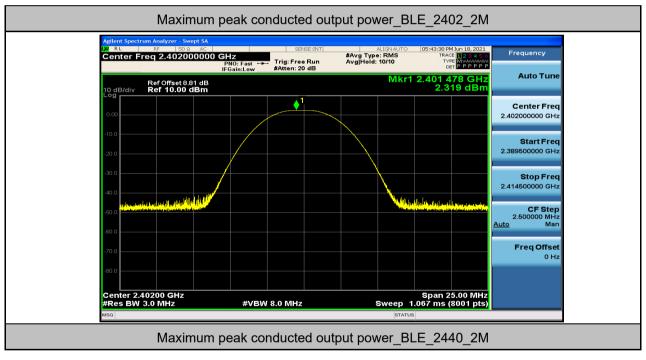
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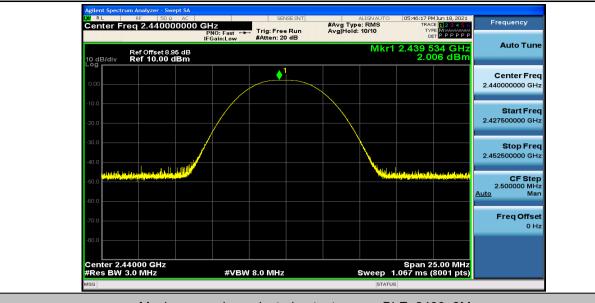
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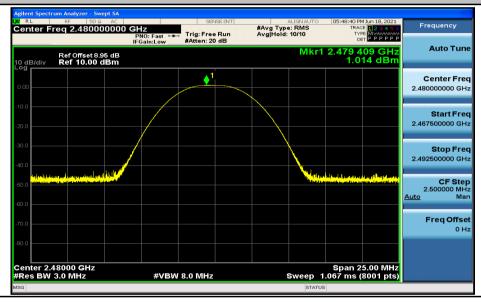




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Maximum peak conducted output power_BLE_2480_2M





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Report No.: SHEM210600569001

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4. Maximum Peak power spectral density

Test Mode	Test Channel	PSD[dB	m/3kHz]	L ::4F-ID /OL-I I1	Verdict
		1M	2M	Limit[dBm/3kHz]	
BLE	2402	-12.87	-16.36	8.00	PASS
BLE	2440	-13.23	-17.11	8.00	PASS
BLE	2480	-14.33	-17.86	8.00	PASS



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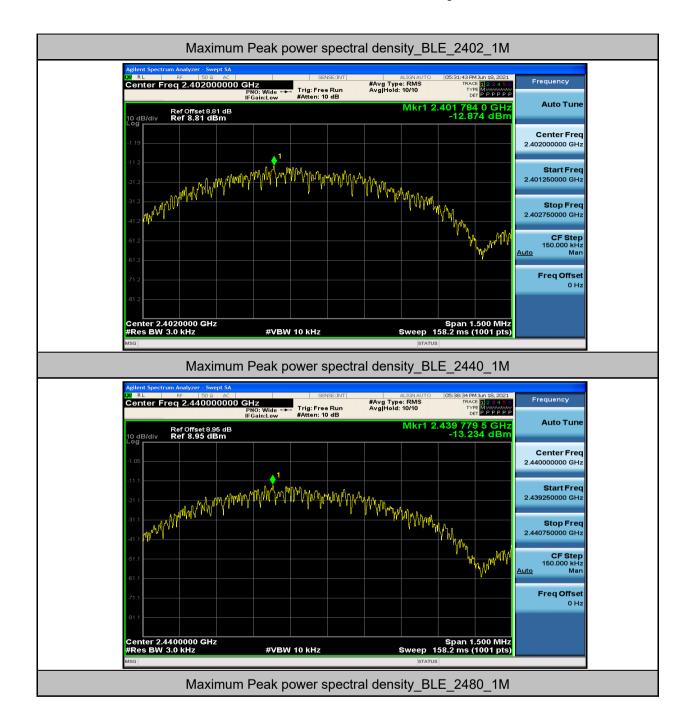
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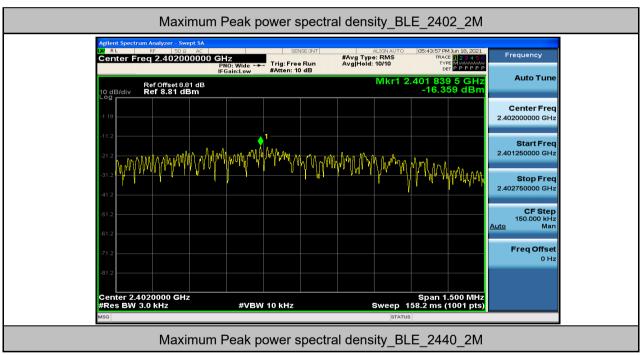
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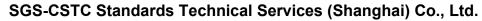




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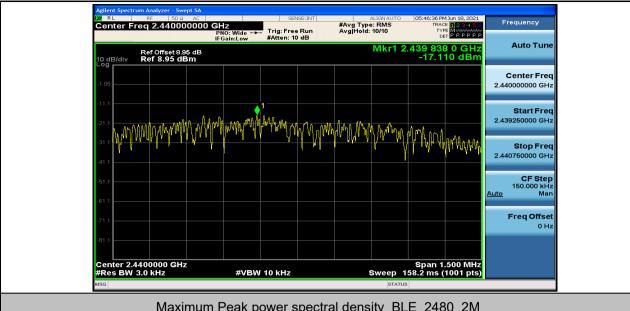
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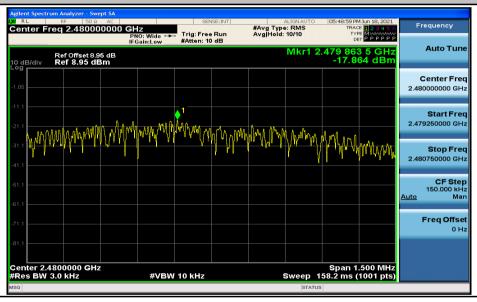




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Maximum Peak power spectral density BLE 2480 2M





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5.Band-edge for RF Conducted Emissions

Test	Test	Carrier Power[dBm]		Max. Spur [dE	ious Level Bm]	Limit [dBm]	Verdict
Mode	Channel	1M	2M	1M	2M	1M/2M	
BLE	2402	1.98	1.76	-53.57	-30.87	-18.02/-18.24	PASS
BLE	2480	0.34	-0.04	-61.09	-60.98	-19.66/-20.04	PASS



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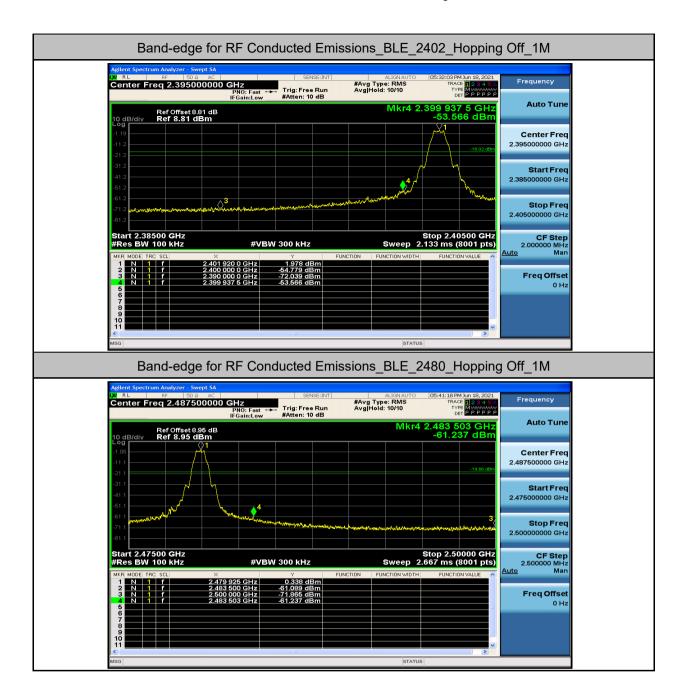
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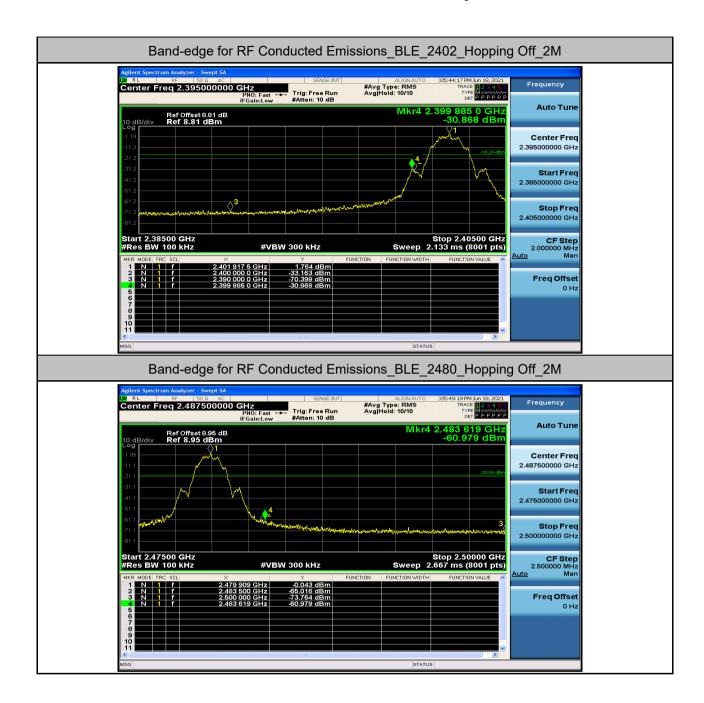
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6.RF Conducted Spurious Emissions

		StartFre StopFre RBW					Pref[dBm]		Level [sm]	Limit [dBm]	Verdict
Mode	Channel	[MHz]	[MHz]	[kHz]	[kHz]	1M	2M	1M	2M	1M/2M	
BLE	2402	30	10000	100	300	1.95	1.66	-51.70	-51.48	<-18.05/<-18.34	PASS
BLE	2402	10000	26000	100	300	1.95	1.66	-44.423	-44.067	<-18.05/<-18.34	PASS
BLE	2440	30	10000	100	300	1.40	1.10	-45.48	-50.45	<-18.60/<-18.90	PASS
BLE	2440	10000	26000	100	300	1.40	1.10	-44.412	-43.232	<-18.60/<-18.90	PASS
BLE	2480	30	10000	100	300	0.39	0.12	-49.24	-52.51	<-19.61/<-19.88	PASS
BLE	2480	10000	26000	100	300	0.39	0.12	-43.628	-43.363	<-19.61/<-19.88	PASS



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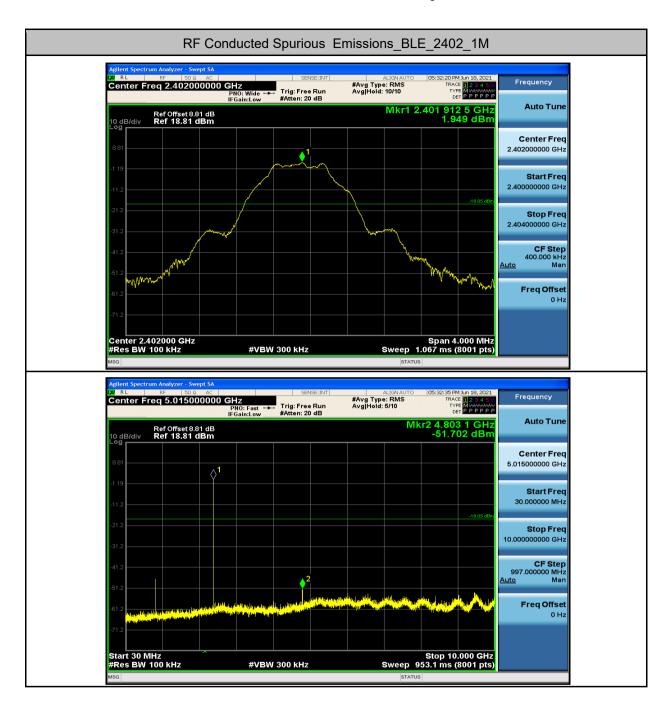
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RF Conducted Spurious Emissions_BLE_2440_1M





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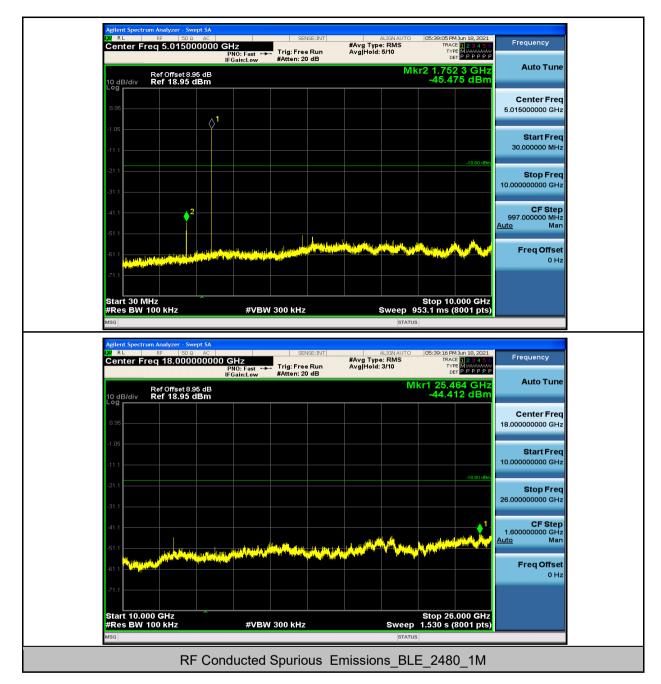
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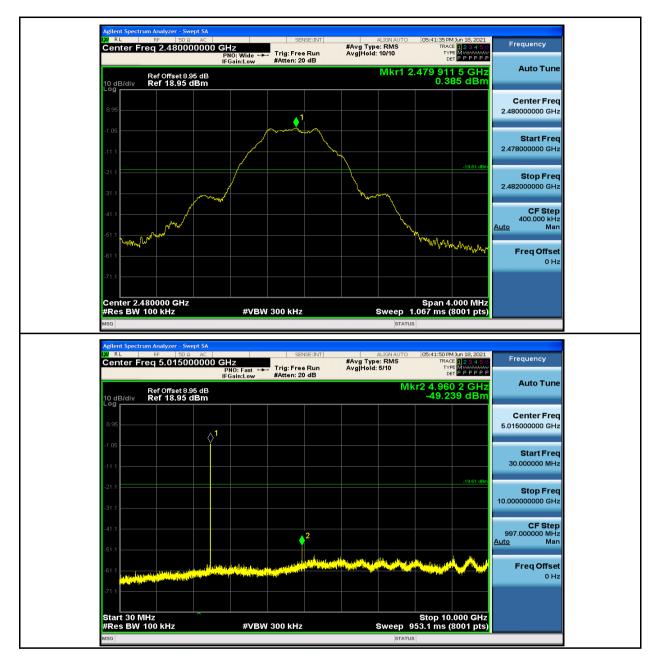
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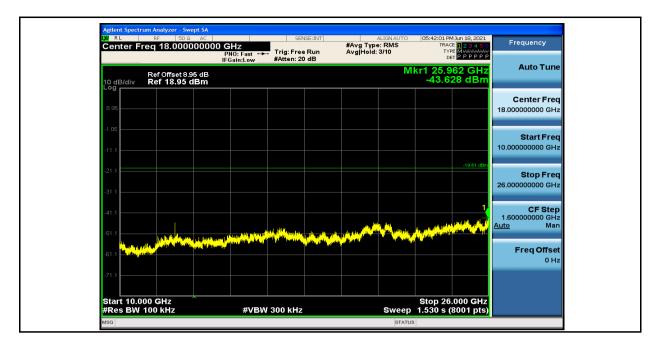
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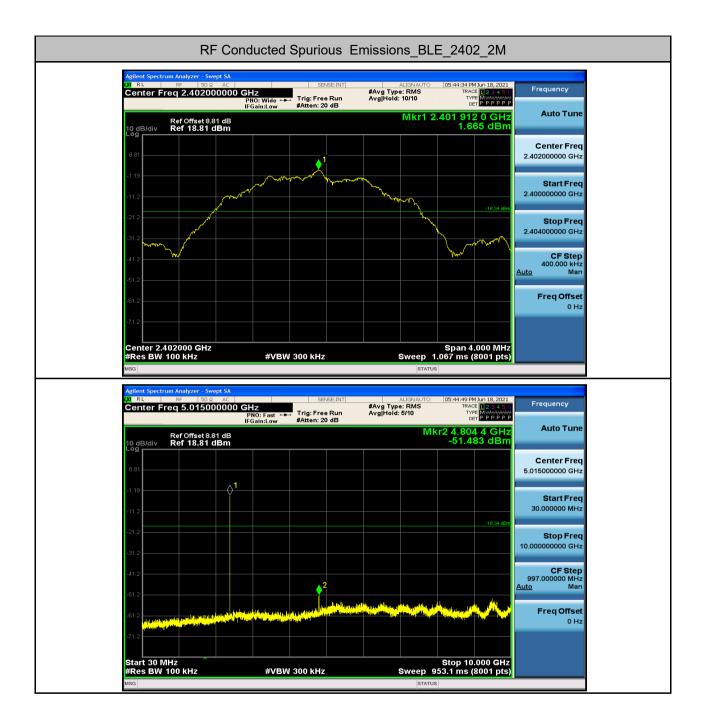
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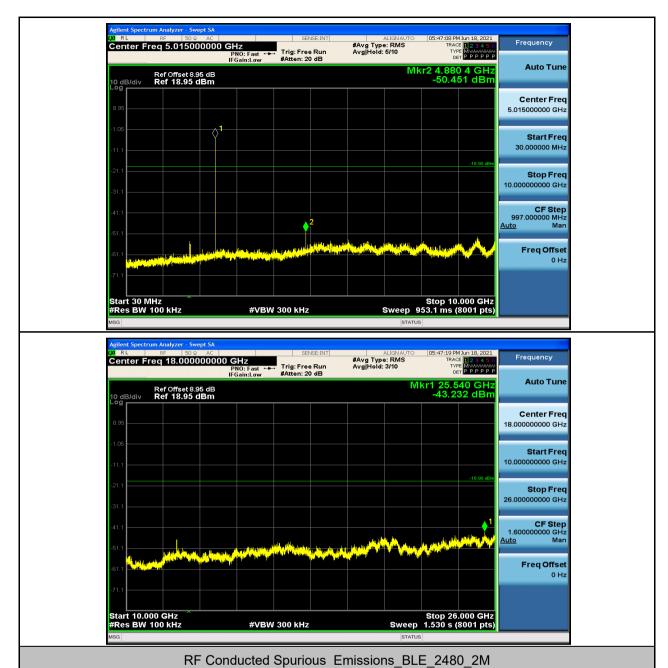
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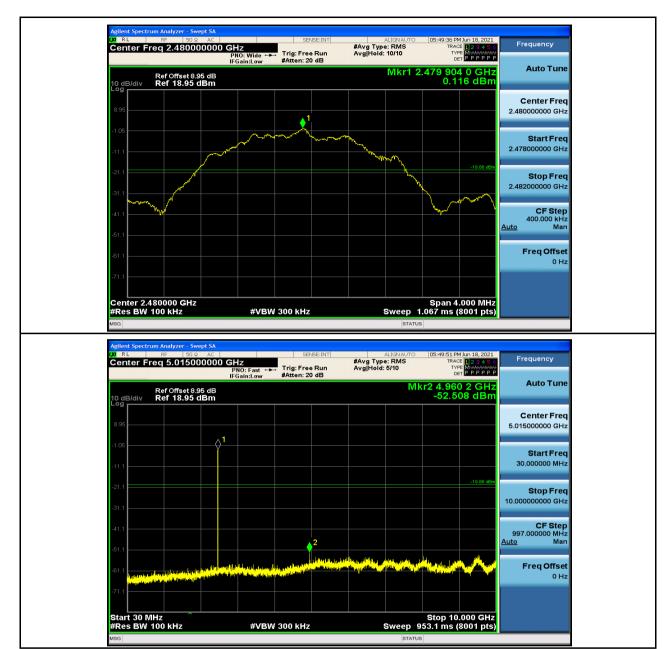
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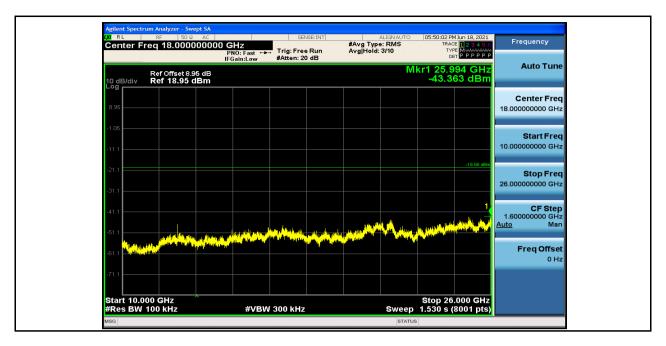
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