



Report No.: SZEM180900837904

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TEST REPORT

Application No.: SZEM1809008379CR **Applicant:** Creative Labs Pte. Ltd.

Address of Applicant: 31 International Business Park, #03-01 Creative Resource, Singapore

609921

Manufacturer: Creative Labs Pte. Ltd.

Address of Manufacturer: 31 International Business Park, #03-01 Creative Resource, Singapore

609921

Equipment Under Test (EUT):

EUT Name: Creative SXFI Theater Headset

Model No.: GH0380B
Trade mark: CREATIVE
FCC ID: 2AJIV-GH0380B

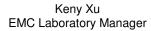
Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2018-09-19

Date of Test: 2018-09-30 to 2019-04-15

Date of Issue: 2019-04-19

Test Result: Pass*





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



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	Revision Record						
Version	Version Chapter Date Modifier F						
01		2019-04-19		Original			

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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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 Matter Part						
Item	Standard	Method	Requirement	Result		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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General Information

Details of E.U.T.

Power supply: Headset powered by Li-ion battery: 3.7V 1300mAh,		
	Charged by DC 5V, 1A from Type-C port	
Cable:	Type-C cable 200cm shielded	
	Line in cable 159cm unshielded	
	Microphone cable 17.5cm shielded	
Operation Frequency	2403.35-2479.35MHz	
Modulation Type	GFSK	
Number of Channels	39	
Channel Spacing	2MHz	
Antenna Type	Chip Antenna	
Antenna Gain	-1.18dBi	

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Router	NETGEAR	DGN2200	REF. No.SEA2200

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dadiated news	± 4.5dB (below 1GHz)
/	RF Radiated power	± 4.8dB (above 1GHz)
8	Dedicted Courieus emission test	± 4.5dB (Below 1GHz)
8	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%



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4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

· Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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5 **Equipment List**

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24



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Conducted Band Edges Measurement									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24				
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26				
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11				
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26				
Power Meter	Rohde & Schwarz			2018-09-25	2019-09-24				

Conducted Spurious Emissions									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24				
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26				
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11				
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26				
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24				

Radiated Emissions wh	Radiated Emissions which fall in the restricted bands								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11				
EVA Coostrum Apolyzor	AgilentTechnologies	NOOTOA	2018-04-13 20	2019-04-12					
EXA Spectrum Analyzer	Inc	N9010A	SEM004-12	2019-04-12	2020-04-11				
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26				
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12				
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16				
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24				



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Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier	Dobdo 9 Cobwarz	CH14 H0E3	SEM005-17	2018-04-02	2019-04-01
(18-26GHz)	honde & Schwarz	GH14-H052	SEIVI005-17	2019-04-01	2020-03-31
Pre-amplifier	Compliance			2018-04-02 2019-04-01	
(26GHz-40GHz)	Directions Systems Inc. Rohde & Schwarz CH14-H052 Compliance Directions Systems Inc. Zhao Xin PAP-0126 PAP-0126 PAP-0126 RH14-H052	SEM005-08	2019-04-01	2020-03-31	
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Spurious Emis	ssions				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
EXA Spectrum Analyzer	AgilentTechnologies	N9010A	SEM004-12	2018-04-13	2019-04-12
EAA Spectrum Analyzer	Inc	NSOTOA	3EIVI004-12	2020-04-11	
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
(18-26GHz)	Honde & Schwarz	GH14-H052	SEIVI005-17	2019-04-01	2020-03-31
Pre-amplifier	Compliance			2018-04-02	2019-04-01
(26GHz-40GHz)	Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01
(0.1-1300MHz)	Aglient reciliologies	0447 D	3EIVI005-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26		
	Changchun			2018-04-08	2019-04-07		
Barometer	Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03		



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6 **Radio Spectrum Matter Test Results**

Minimum 6dB Bandwidth

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

Limit: ≥500 kHz

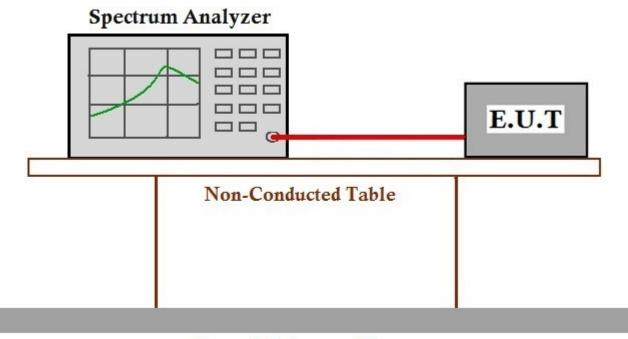
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 59.1 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX mode Keep the EUT in transmitting with GFSK modulation mode.

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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6.2 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(1) & 15.247(b)(3) Test Requirement ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1 Test Method:

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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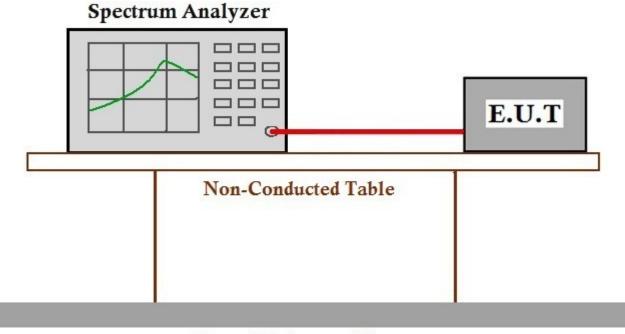
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 59.4 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX mode Keep the EUT in transmitting with GFSK modulation mode.

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247





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6.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

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

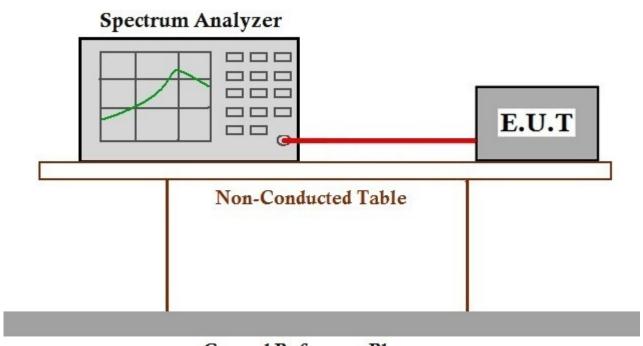
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.6 °C Humidity: 58.9 % RH

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

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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6.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.8 & 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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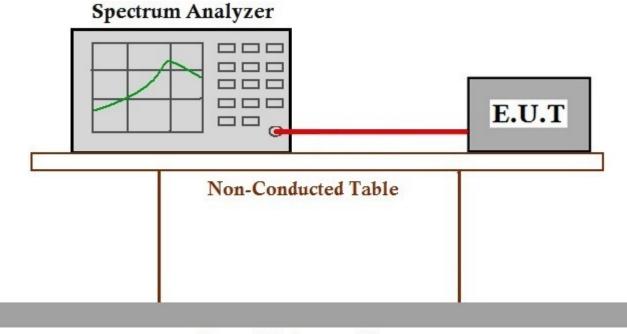
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 58.8 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX mode Keep the EUT in transmitting with GFSK modulation mode.

6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247





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6.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.6 & 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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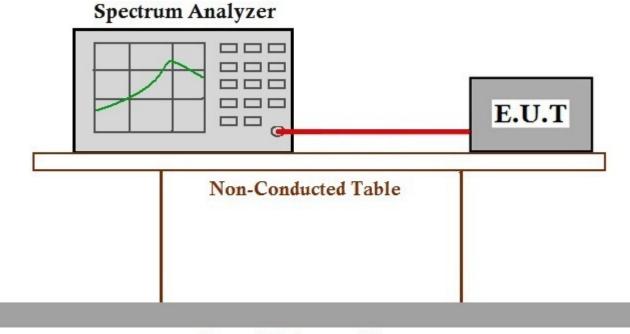
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 58.9 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX mode Keep the EUT in transmitting with GFSK modulation mode.

6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247





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6.6 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.209 & 15.247(d) Test Requirement

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.

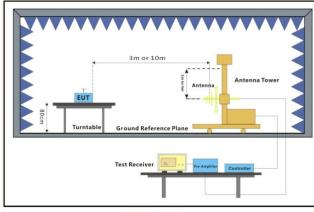
6.6.1 E.U.T. Operation

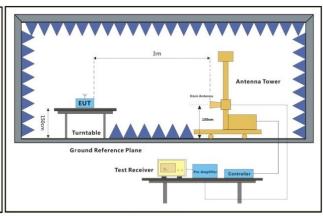
Operating Environment:

66.4 % RH Atmospheric Pressure: 1010 mbar Temperature: 22.1 °C Humidity:

Test mode c:TX mode Keep the EUT in transmitting with GFSK modulation mode.

6.6.2 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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6.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position
- 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.



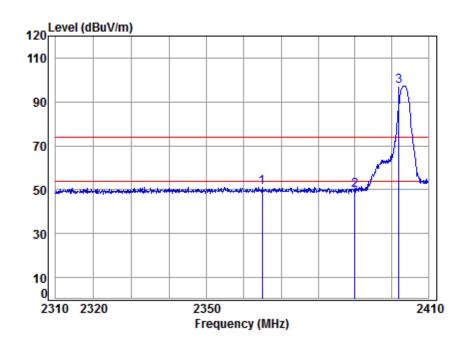


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For Headset

Mode:c; Polarization:Horizontal; Channel:Low



: chamber Site

Condition: 3m HORIZONTAL

Job No : 08379CR

Mode : 2403.35 Band edge

Note : Headset

oce	. 1100	ausec								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2364.976	5.44	28.48	41.16	58.54	51.30	74.00	-22.70	peak	
2	2390.000	5.47	28.52	41.17	56.72	49.54	74.00	-24.46	peak	
3 *	2402.000	5.49	28.54	41.18	104.56	97.41	74.00	23.41	peak	



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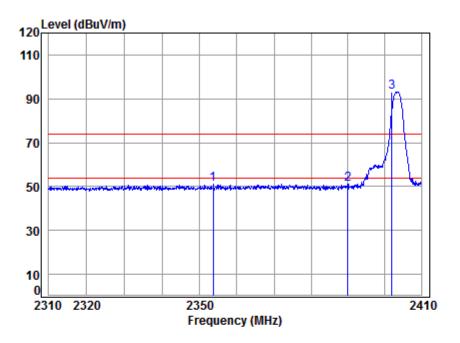
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Mode:c; Polarization:Vertical; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08379CR

Mode : 2403.35 Band edge

Note : Headset

	Freq		Ant Factor						Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2353.678	5.43	28.46	41.16	58.44	51.17	74.00	-22.83	peak	
2	2390.000	5.47	28.52	41.17	58.37	51.19	74.00	-22.81	peak	
3 *	* 2402 000	5 49	28 54	41 18	100 26	93 11	74 00	19 11	neak	



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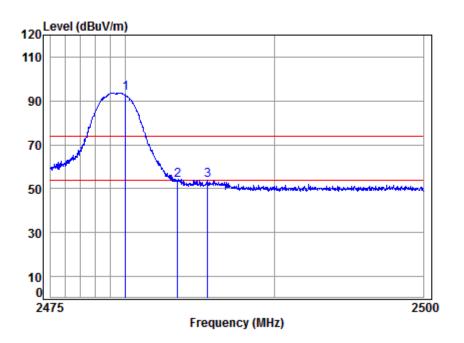
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Mode:c; Polarization:Horizontal; Channel:High



: chamber Site

Condition: 3m HORIZONTAL

Job No : 08379CR

Mode : 2479.35 Band edge

Note : Headset

OCC	. 1100	ausec								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2480.000	5.59	28.67	41.21	100.67	93.72	74.00	19.72	peak	
2	2483.500	5.60	28.67	41.21	60.68	53.74	74.00	-20.26	peak	
3	2485.519	5.60	28.68	41.21	60.61	53.68	74.00	-20.32	peak	



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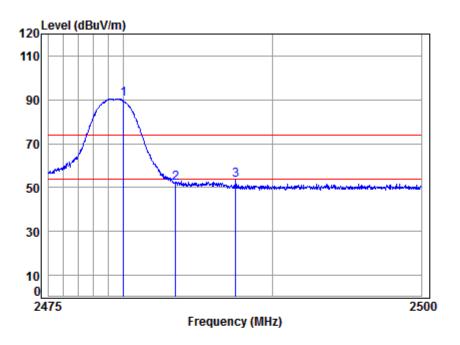
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Mode:c; Polarization:Vertical; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08379CR

Mode : 2479.35 Band edge

Note : Headset

1 2 3

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	* 2480.000	5.59	28.67	41.21	97.41	90.46	74.00	16.46	peak	
2	2483.500	5.60	28.67	41.21	59.08	52.14	74.00	-21.86	peak	
	2487 519	5 60	28 68	41 21	60 11	53 18	74 99	-20 82	neak	



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6.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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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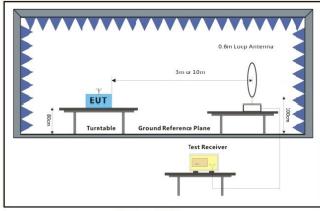
6.7.1 E.U.T. Operation

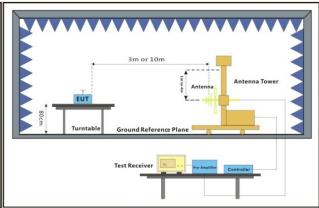
Operating Environment:

Humidity: 65.1 % RH Atmospheric Pressure: 1010 mbar Temperature: 22.2 °C

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

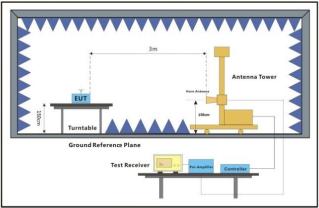
6.7.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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6.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



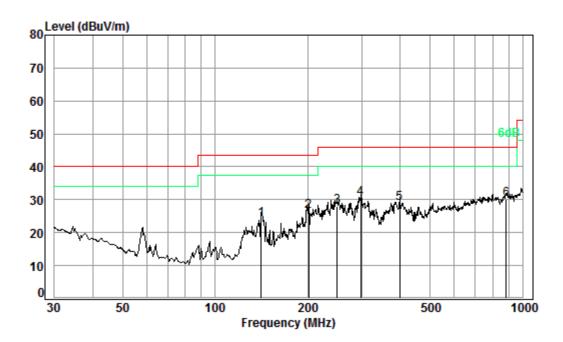


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30MHz~1GHz

Mode:c; Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 8379CR

Test mode: c

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	141.33	1.30	13.83	27.13	36.05	24.05	43.50	-19.45
2	201.39	1.41	16.55	26.90	35.40	26.46	43.50	-17.04
3	249.43	1.67	18.94	26.76	34.17	28.02	46.00	-17.98
4 pp	297.22	1.89	19.49	26.65	35.62	30.35	46.00	-15.65
5	399.03	2.20	22.38	27.18	31.36	28.76	46.00	-17.24
6	884.50	3.54	29.61	27.14	24.00	30.01	46.00	-15.99



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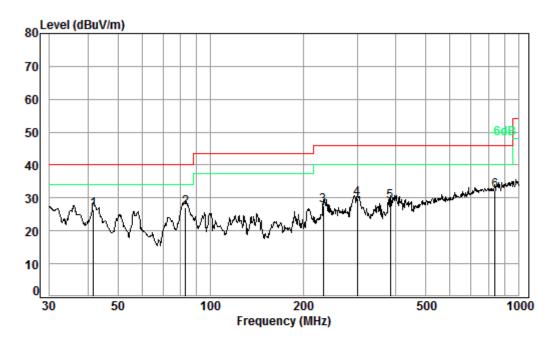
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Mode:c; Polarization:Vertical;



Condition: 3m VERTICAL

Job No. : 8379CR

Test mode: c

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.71	0.64	16.88	27.43	36.50	26.59	40.00	-13.41
2 pp	82.94	1.10	12.34	27.37	41.10	27.17	40.00	-12.83
3	232.53	1.59	18.22	26.80	34.61	27.62	46.00	-18.38
4	299.32	1.90	19.57	26.64	34.95	29.78	46.00	-16.22
5	383.93	2.16	22.00	27.11	31.82	28.87	46.00	-17.13
6	839.18	3.36	29.03	27.40	27.15	32.14	46.00	-13.86



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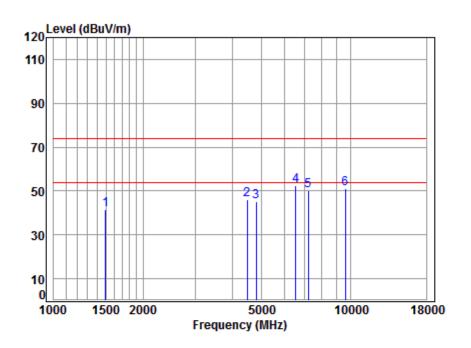


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Above 1GHz For Headset

Mode:c; Polarization:Horizontal; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08379CR

Mode : 2403.35 TX SE

Note : Headset

				_				_	
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	5.46	25.78	40.70	50.76	41.30	74.00	-32.70	peak
2	4482.150	7.54	33.57	43.29	48.31	46.13	74.00	-27.87	peak
3	4806.700	7.89	33.98	43.61	47.12	45.38	74.00	-28.62	peak
4	6545.263	11.41	35.63	42.37	47.94	52.61	74.00	-21.39	peak
5	7210.050	10.07	36.07	41.85	46.12	50.41	74.00	-23.59	peak
6	9613.400	10.75	37.67	38.42	41.24	51.24	74.00	-22.76	peak



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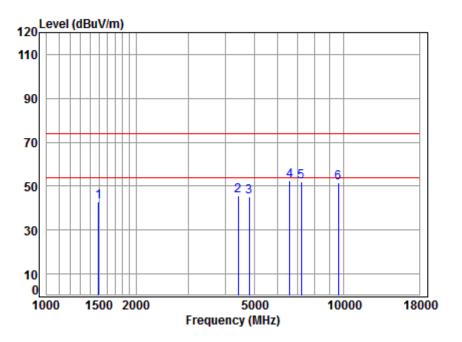
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Mode:c; Polarization:Vertical; Channel:Low



: chamber Site Condition: 3m VERTICAL

Job No : 08379CR

Mode : 2403.35 TX SE

Note : Headset

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	5.46	25.78	40.70	52.47	43.01	74.00	-30.99	peak
2	4417.841	7.47	33.46	43.22	48.07	45.78	74.00	-28.22	peak
3	4806.700	7.89	33.98	43.61	47.06	45.32	74.00	-28.68	peak
4	6602.265	11.24	35.66	42.32	48.09	52.67	74.00	-21.33	peak
5	7210.050	10.07	36.07	41.85	47.62	51.91	74.00	-22.09	peak
6	9613.400	10.75	37.67	38.42	41.44	51.44	74.00	-22.56	peak



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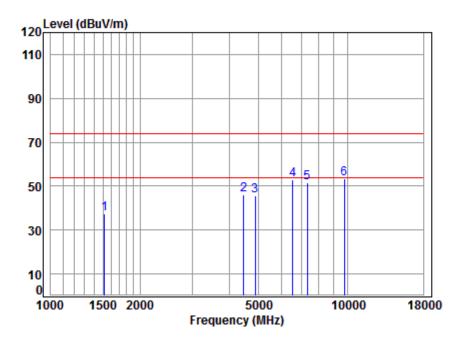
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Mode:c; Polarization:Horizontal; Channel:Middle



: chamber Site

Condition: 3m HORIZONTAL

Job No : 08379CR

Mode : 2441.35 TX SE

Note : Headset

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	4546 240	F 46	25 07	40.72	46.00	37.50	74.00	36 50	
1	1516.210	5.46	25.8/	40.72	46.89	37.50	74.00	-36.50	реак
2	4469.214	7.53	33.55	43.27	48.19	46.00	74.00	-28.00	peak
3	4882.700	7.97	34.06	43.69	47.31	45.65	74.00	-28.35	peak
4	6545.263	11.41	35.63	42.37	48.39	53.06	74.00	-20.94	peak
5	7324.050	10.04	36.16	41.77	47.19	51.62	74.00	-22.38	peak
6	9765.400	10.82	37.76	38.17	42.85	53.26	74.00	-20.74	peak



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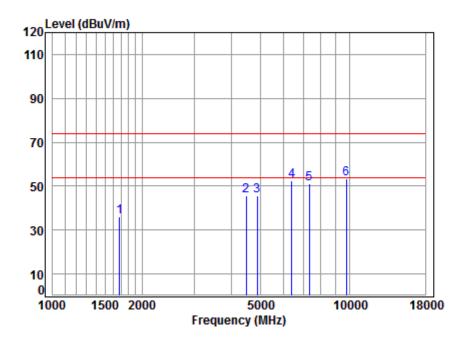
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Mode:c; Polarization:Vertical; Channel: Middle



: chamber Site Condition: 3m VERTICAL Job No : 08379CR

Mode : 2441.35 TX SE

Note : Headset

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	5.25	26.60	40.82	45.09	36.12	74.00	-37.88	peak
2	4495.125	7.55	33.59	43.30	47.73	45.57	74.00	-28.43	peak
3	4882.700	7.97	34.06	43.69	47.16	45.50	74.00	-28.50	peak
4	6395.654	11.34	35.50	42.49	48.32	52.67	74.00	-21.33	peak
5	7324.050	10.04	36.16	41.77	46.56	50.99	74.00	-23.01	peak
6	9765.400	10.82	37.76	38.17	43.07	53.48	74.00	-20.52	peak



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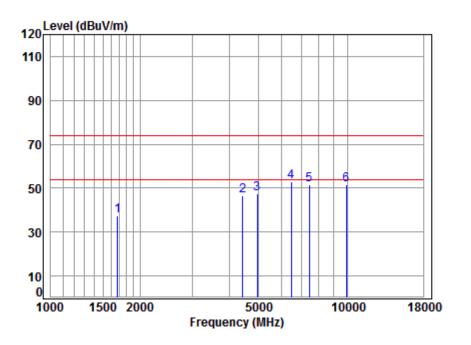
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Mode:c; Polarization:Horizontal; Channel:High



: chamber Site

Condition: 3m HORIZONTAL

Job No : 08379CR

Mode : 2479.35 TX SE

Note : Headset

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1677.621	5.25	26.58	40.82	46.55	37.56	74.00	-36.44	peak
4443.453	7.50	33.50	43.25	48.76	46.51	74.00	-27.49	peak
4958.700	8.05	34.15	43.76	48.99	47.43	74.00	-26.57	peak
6470.026	11.48	35.57	42.43	48.37	52.99	74.00	-21.01	peak
7438.050	10.02	36.25	41.69	46.97	51.55	74.00	-22.45	peak
9917.400	10.90	37.85	37.93	40.81	51.63	74.00	-22.37	peak
	MHz 1677.621 4443.453 4958.700 6470.026 7438.050	Freq Loss MHz dB 1677.621 5.25 4443.453 7.50 4958.700 8.05 6470.026 11.48 7438.050 10.02	Freq Loss Factor MHz dB dB/m 1677.621 5.25 26.58 4443.453 7.50 33.50 4958.700 8.05 34.15 6470.026 11.48 35.57 7438.050 10.02 36.25	Freq Loss Factor Factor MHz dB dB/m dB 1677.621 5.25 26.58 40.82 4443.453 7.50 33.50 43.25 4958.700 8.05 34.15 43.76 6470.026 11.48 35.57 42.43 7438.050 10.02 36.25 41.69	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1677.621 5.25 26.58 40.82 46.55 4443.453 7.50 33.50 43.25 48.76 4958.700 8.05 34.15 43.76 48.99 6470.026 11.48 35.57 42.43 48.37 7438.050 10.02 36.25 41.69 46.97	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1677.621 5.25 26.58 40.82 46.55 37.56 4443.453 7.50 33.50 43.25 48.76 46.51 4958.700 8.05 34.15 43.76 48.99 47.43 6470.026 11.48 35.57 42.43 48.37 52.99 7438.050 10.02 36.25 41.69 46.97 51.55	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1677.621 5.25 26.58 40.82 46.55 37.56 74.00 4443.453 7.50 33.50 43.25 48.76 46.51 74.00 4958.700 8.05 34.15 43.76 48.99 47.43 74.00 6470.026 11.48 35.57 42.43 48.37 52.99 74.00 7438.050 10.02 36.25 41.69 46.97 51.55 74.00	Cable Ant Preamp Freq Loss Factor Factor Read Level Level Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1677.621 5.25 26.58 40.82 46.55 37.56 74.00 -36.44 4443.453 7.50 33.50 43.25 48.76 46.51 74.00 -27.49 4958.700 8.05 34.15 43.76 48.99 47.43 74.00 -26.57 6470.026 11.48 35.57 42.43 48.37 52.99 74.00 -21.01 7438.050 10.02 36.25 41.69 46.97 51.55 74.00 -22.45 9917.400 10.90 37.85 37.93 40.81 51.63 74.00 -22.37



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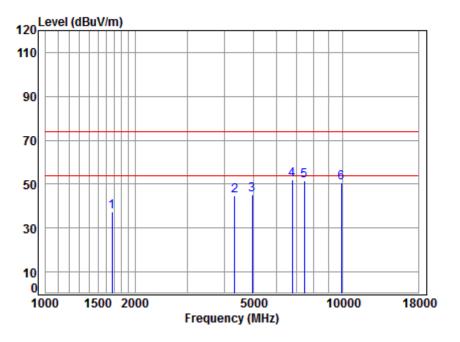
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Mode:c; Polarization:Vertical; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08379CR

Mode : 2479.35 TX SE

Note : Headset

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	40.82	46.25	37.25	74.00	-36.75	peak
2	4329.354	7.37	33.30	43.12	47.34	44.89	74.00	-29.11	peak
3	4958.700	8.05	34.15	43.76	46.62	45.06	74.00	-28.94	peak
4	6776.265	10.75	35.77	42.18	47.65	51.99	74.00	-22.01	peak
5	7438.050	10.02	36.25	41.69	46.81	51.39	74.00	-22.61	peak
6	9917.400	10.90	37.85	37.93	39.87	50.69	74.00	-23.31	peak



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Photographs 7

Setup Photos

Refer to Setup Photos

7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



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Appendix 8

8.1 Appendix 15.247

For Headset

1.6dB Bandwidth

Test Mode	Test Channel	Ant	Ant EBW[MHz] L		Verdict
2.4G	2403.35	Ant1	1.659	>=0.5	PASS
2.4G	2403.35	Ant2	1.695	>=0.5	PASS
2.4G	2441.35	Ant1	1.644	>=0.5	PASS
2.4G	2441.35	Ant2	1.701	>=0.5	PASS
2.4G	2479.35	Ant1	1.668	>=0.5	PASS
2.4G	2479.35	Ant2	1.644	>=0.5	PASS



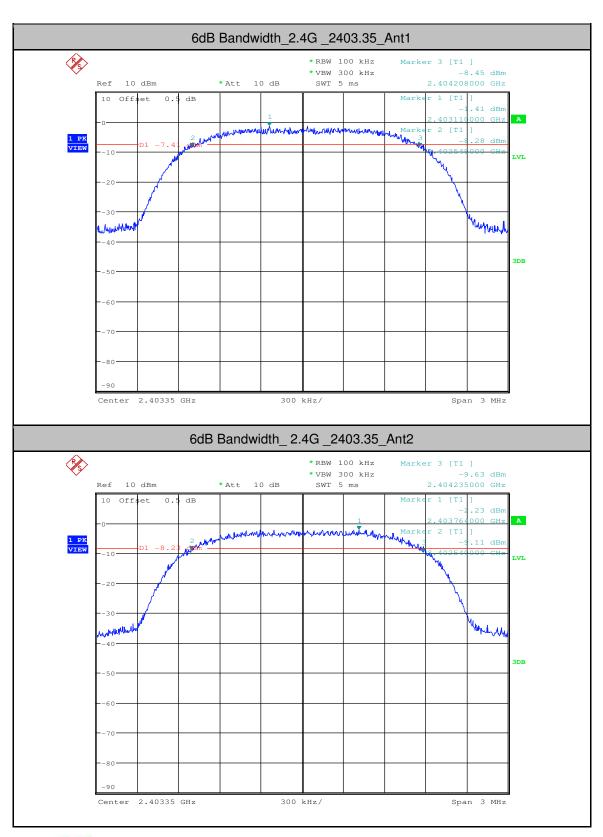
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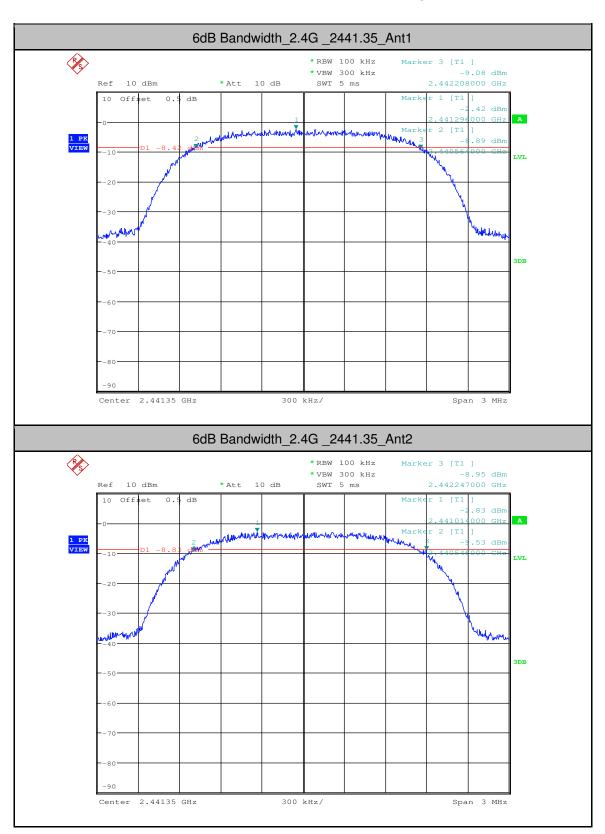
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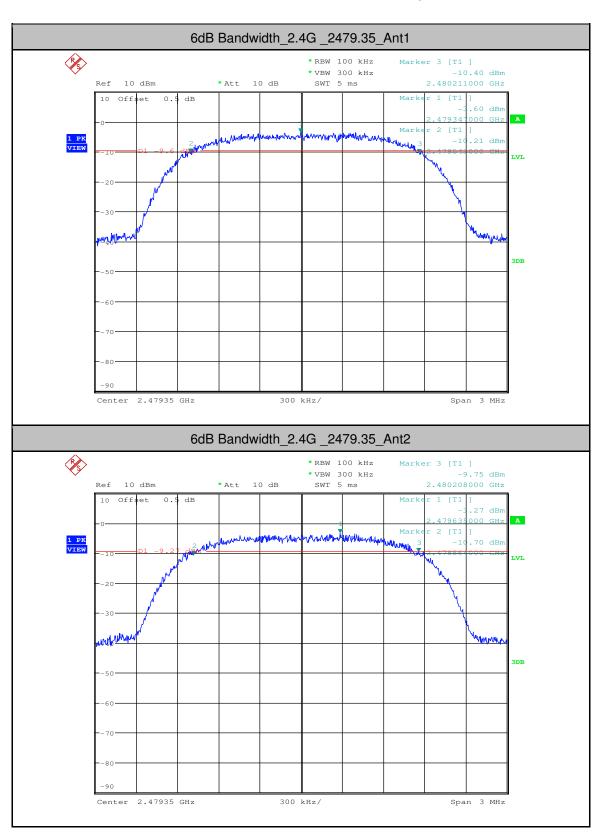
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2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
2.4G	2403.35	Ant1	1.84	<30	PASS
2.4G	2403.35	Ant2	1.45	<30	PASS
2.4G	2441.35	Ant1	0.99	<30	PASS
2.4G	2441.35	Ant2	0.71	<30	PASS
2.4G	2479.35	Ant1	0.24	<30	PASS
2.4G	2479.35	Ant2	0.06	<30	PASS



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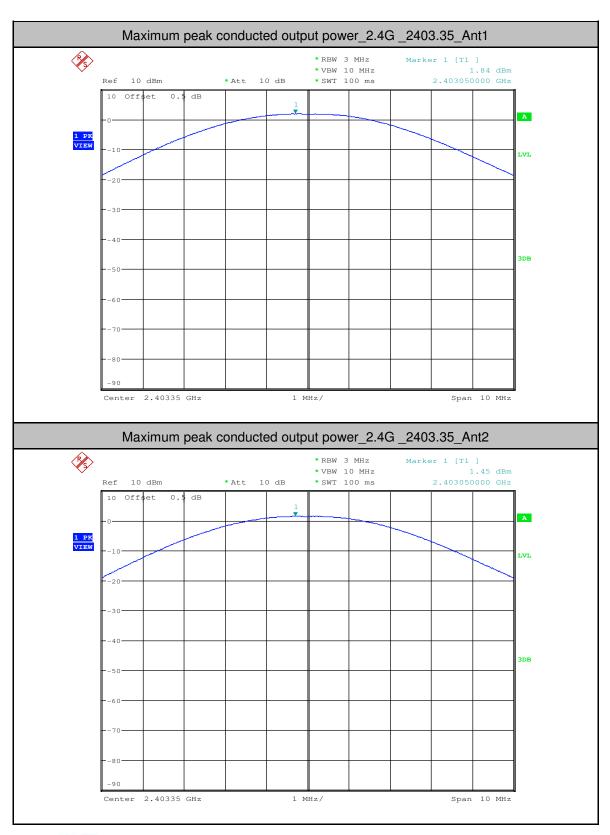
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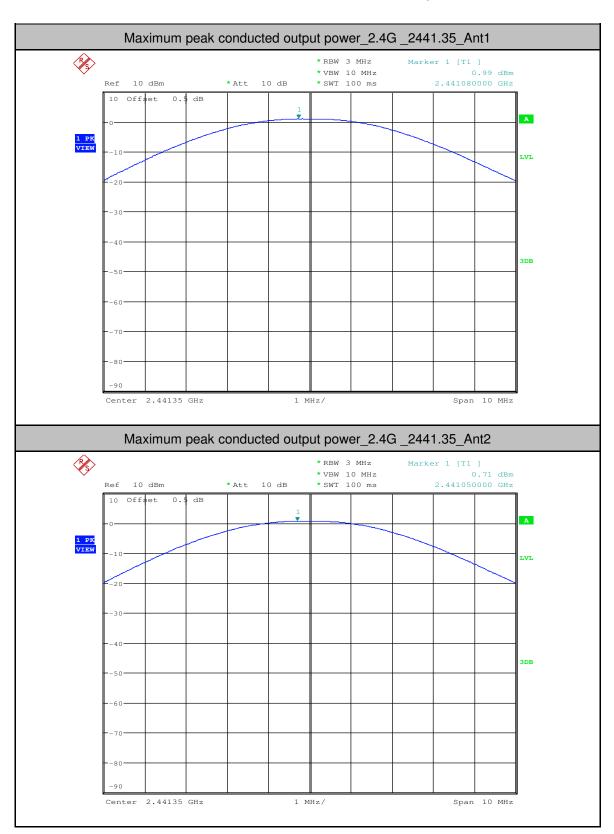
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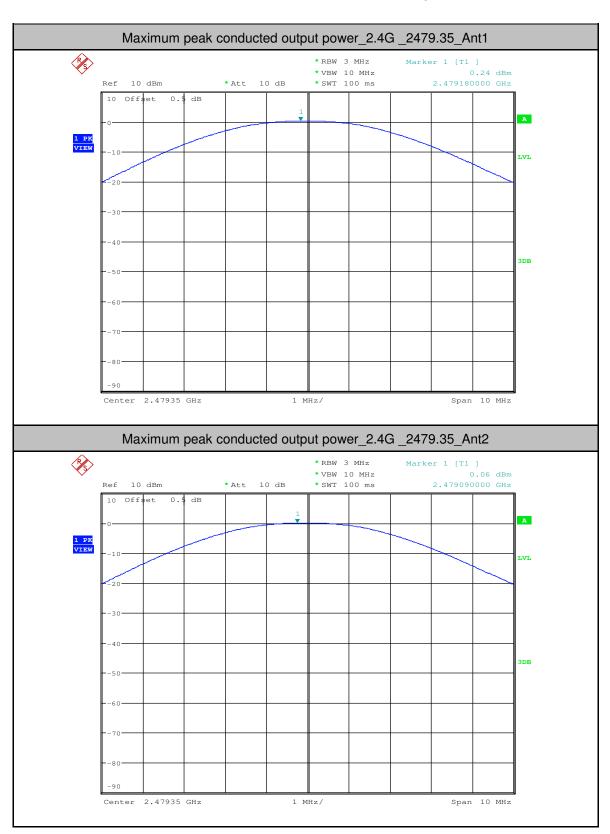
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3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2.4G	2403.35	Ant1	-15.59	<8.00	PASS
2.4G	2403.35	Ant2	-16.07	<8.00	PASS
2.4G	2441.35	Ant1	-16.84	<8.00	PASS
2.4G	2441.35	Ant2	-17.3	<8.00	PASS
2.4G	2479.35	Ant1	-17.38	<8.00	PASS
2.4G	2479.35	Ant2	-17.24	<8.00	PASS



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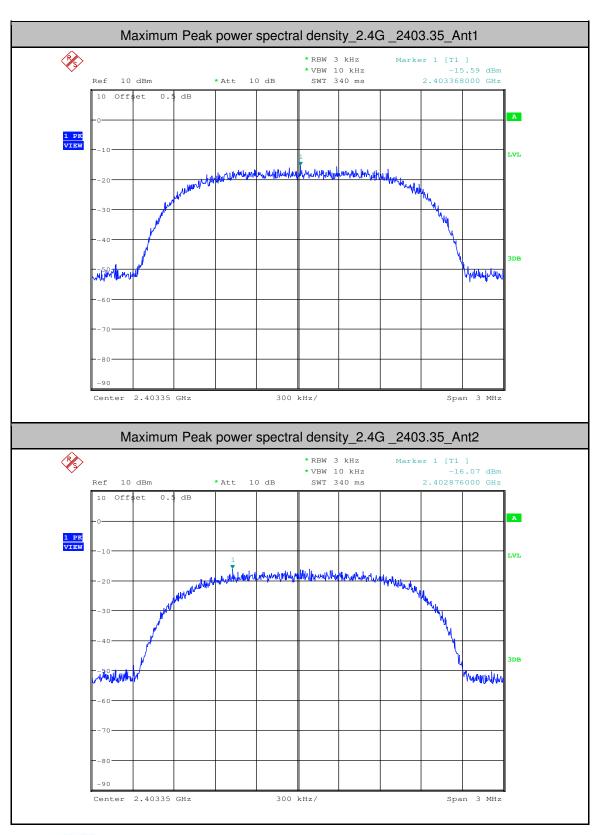
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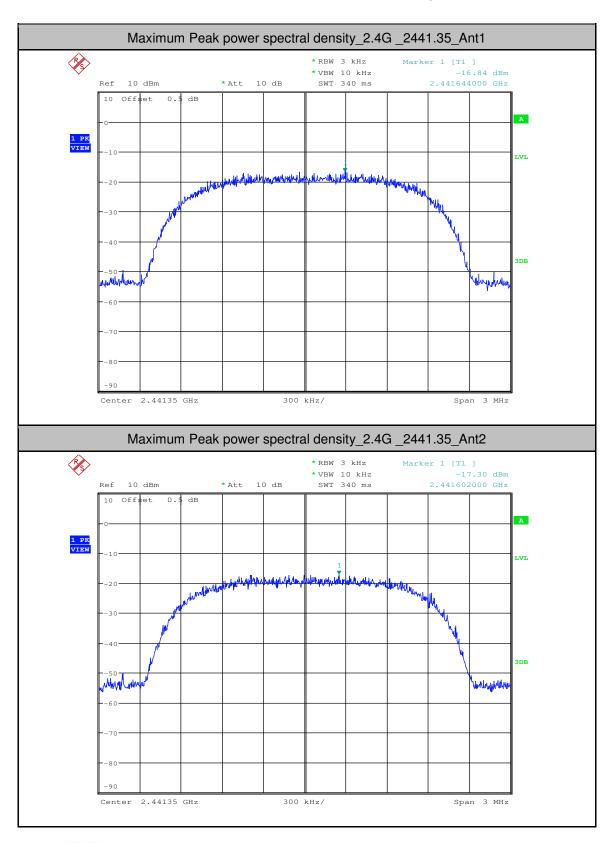
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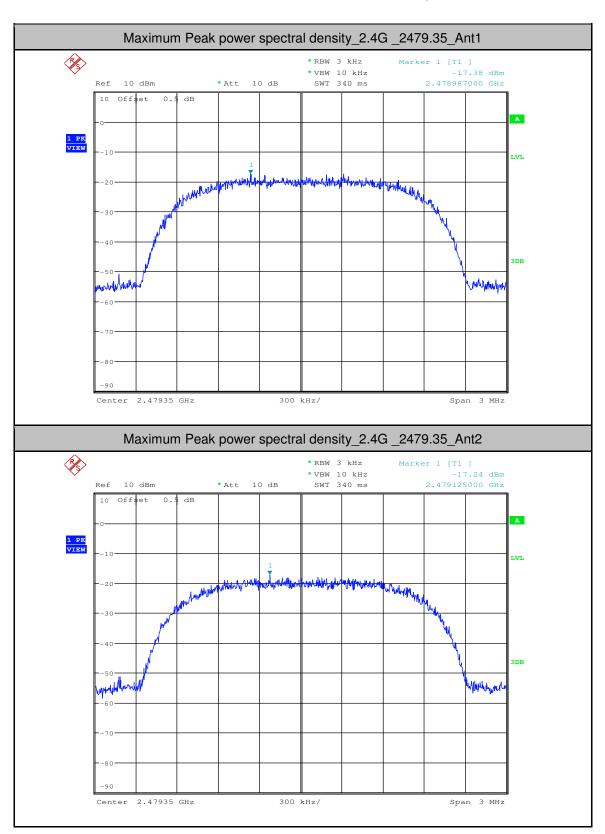
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4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
2.4G	2403.35	Ant1	-2.560	-56.485	<-22.56	PASS
2.4G	2403.35	Ant2	-3.170	-56.730	<-23.17	PASS
2.4G	2479.35	Ant1	-3.850	-47.513	<-23.85	PASS
2.4G	2479.35	Ant2	-3.780	-47.062	<-23.78	PASS



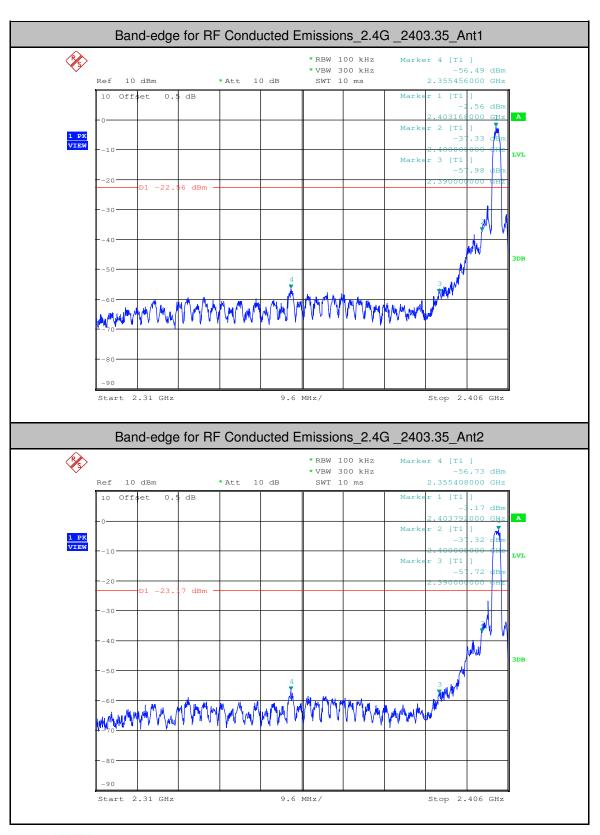
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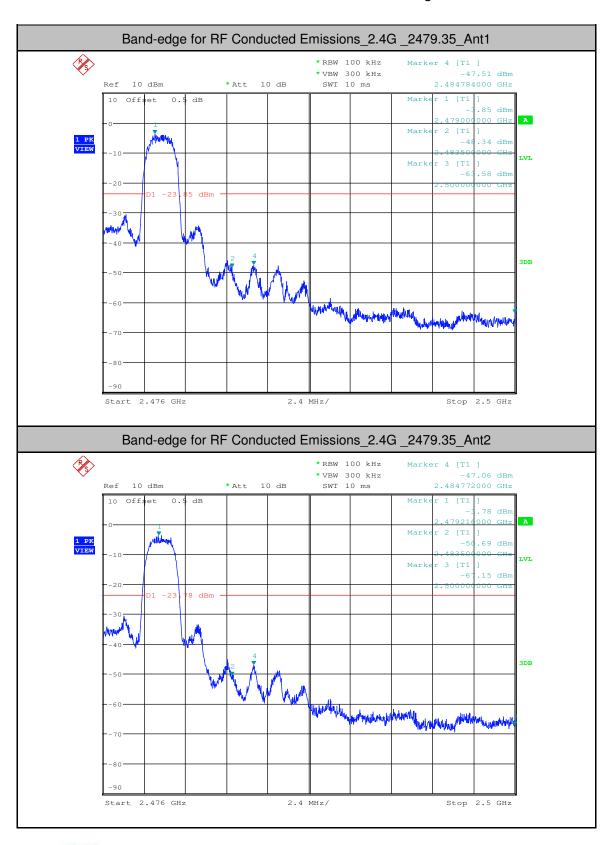
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5.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
2.4G	2403.35	30	10000	1000	3000	-1.5	-49.680	<-21.5	PASS
2.4G	2403.35	10000	25000	1000	3000	-1.5	-62.060	<-21.5	PASS
2.4G	2403.35	30	10000	1000	3000	-2.54	-50.110	<- 22.54	PASS
2.4G	2403.35	10000	25000	1000	3000	-2.54	-61.880	<- 22.54	PASS
2.4G	2441.35	30	10000	1000	3000	-2.46	-51.470	<- 22.46	PASS
2.4G	2441.35	10000	25000	1000	3000	-2.46	-62.300	<- 22.46	PASS
2.4G	2441.35	30	10000	1000	3000	-3.63	-52.080	<- 23.63	PASS
2.4G	2441.35	10000	25000	1000	3000	-3.63	-61.760	<- 23.63	PASS
2.4G	2479.35	30	10000	1000	3000	-4.03	-52.610	<- 24.03	PASS
2.4G	2479.35	10000	25000	1000	3000	-4.03	-61.700	<- 24.03	PASS
2.4G	2479.35	30	10000	1000	3000	-4.01	-52.880	<- 24.01	PASS
2.4G	2479.35	10000	25000	1000	3000	-4.01	-62.370	<- 24.01	PASS



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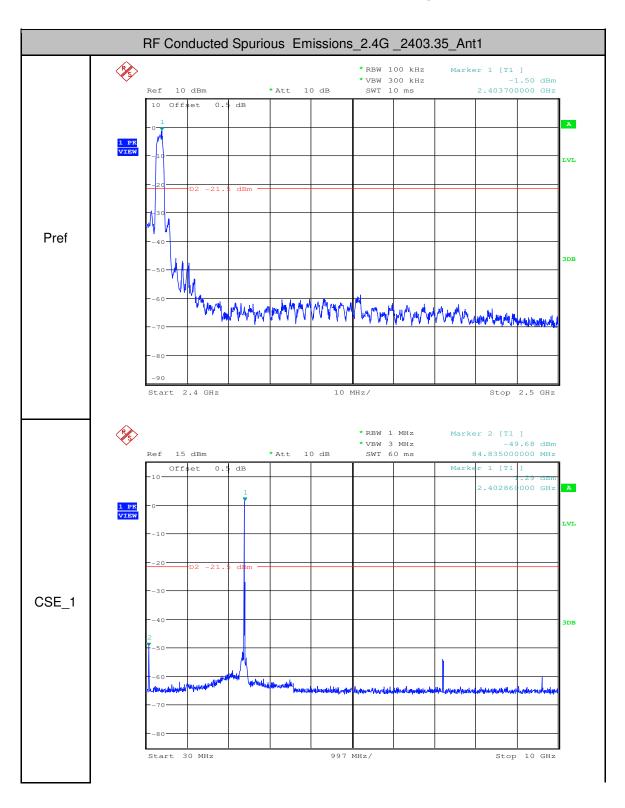
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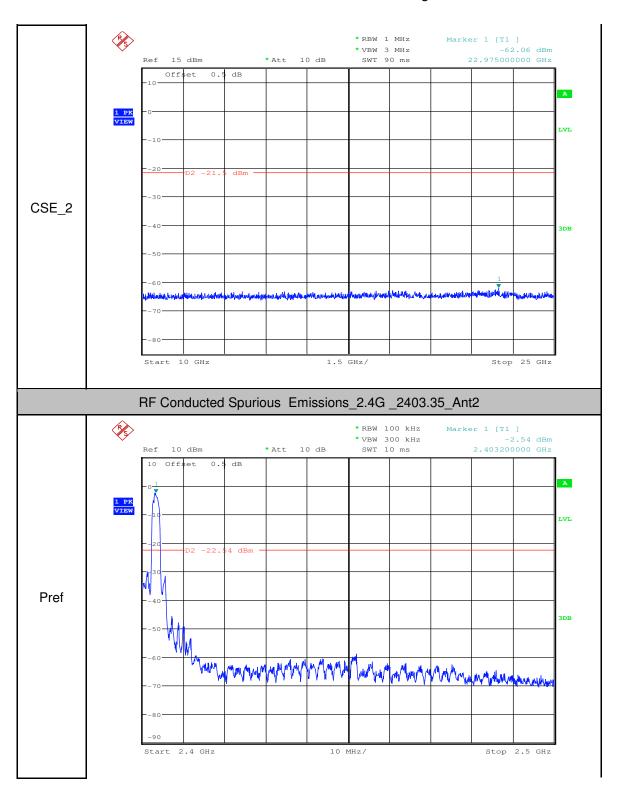
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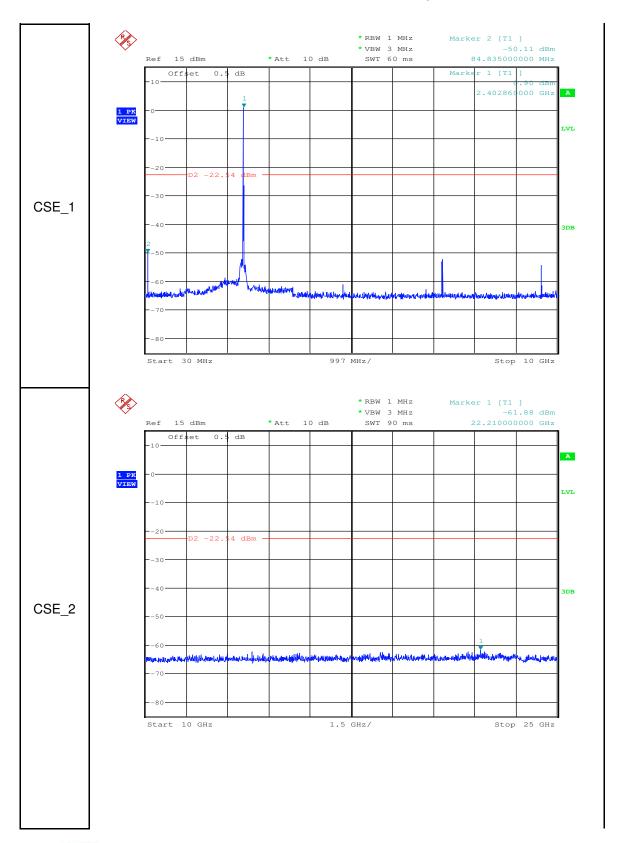
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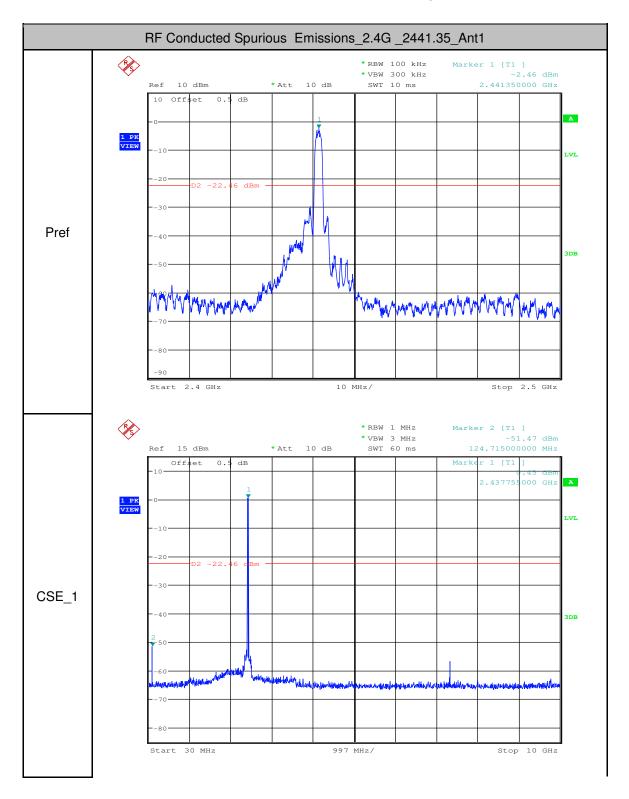
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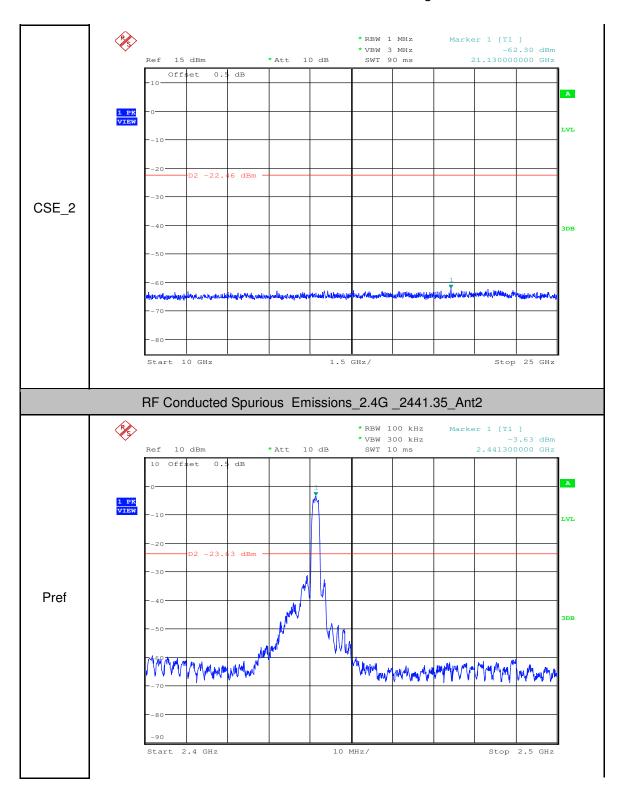
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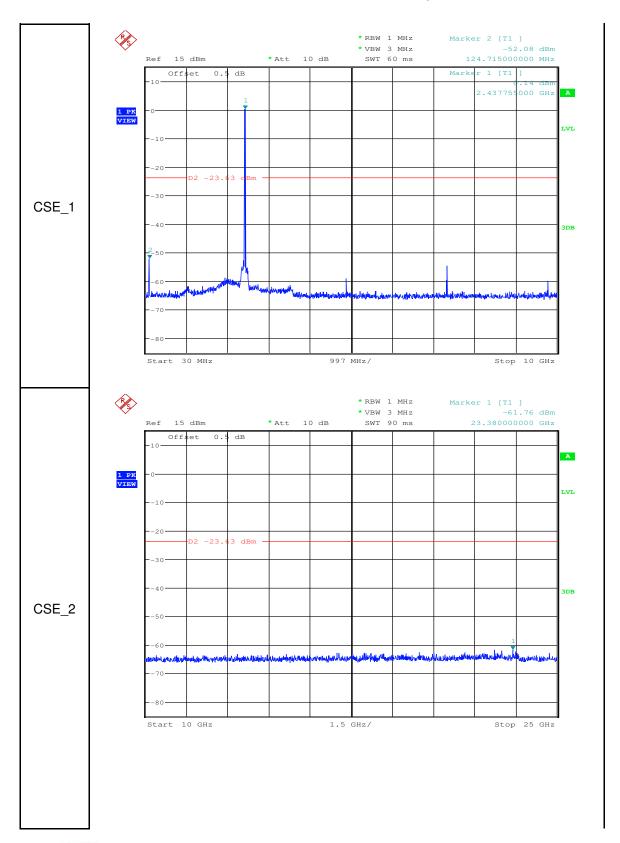
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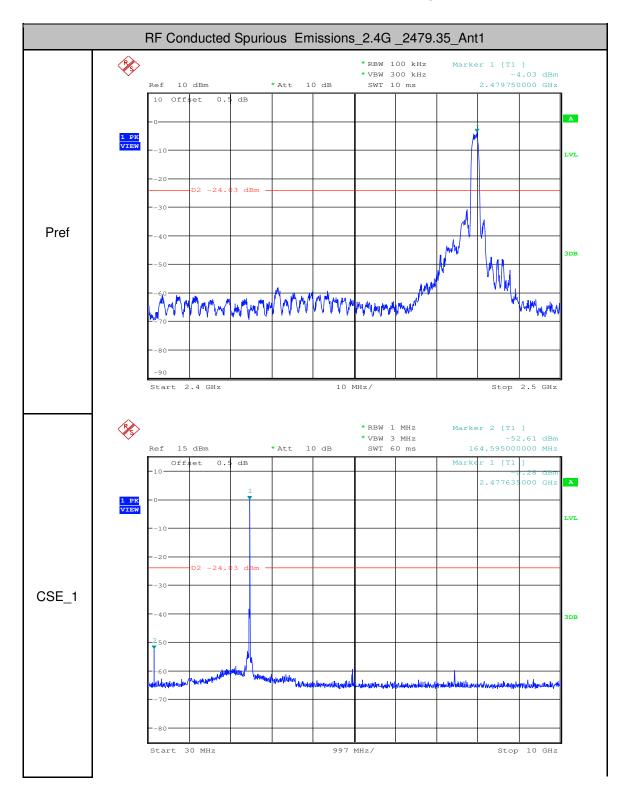
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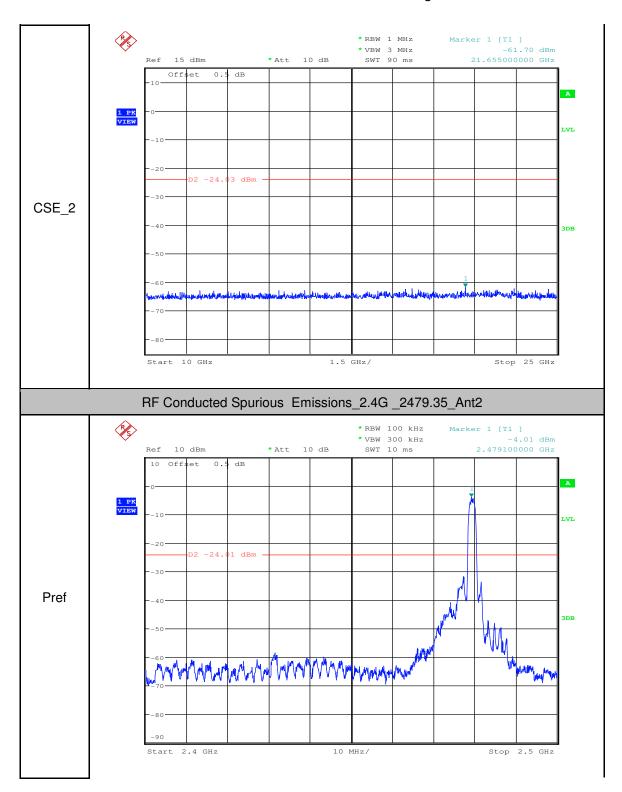
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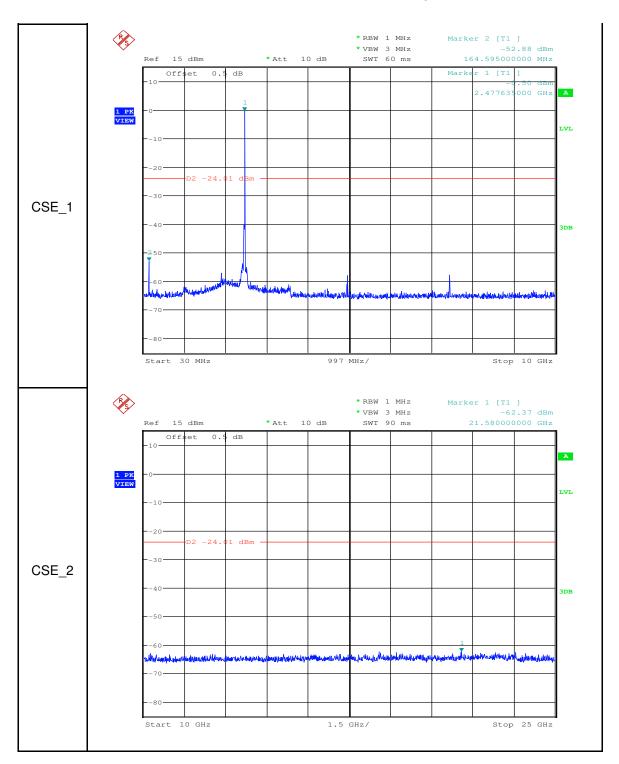
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