SGS

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FCC REPORT

Application No:	SZEM1508005107CR
Applicant:	SZ DJI TECHNOLOGY CO., LTD
Manufacturer/Factory:	SZ DJI TECHNOLOGY CO., LTD
Product Name:	AIR UNIT
Model No.(EUT):	R810A
Trade Mark:	DJI
FCC ID:	SS3-IG8101508
Standards:	47 CFR Part 15, Subpart C (2014)
Date of Receipt:	2015-08-19
Date of Test:	2015-09-01 to 2015-09-09
Date of Issue:	2015-09-14
Test Result:	PASS *

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

Authorized Signature:

Jack Zhang EMC Laboratory Manager

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

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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2 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
00		2015-09-14		Original		

Authorized for issue by:		
Tested By	Chros Throng	2015-09-09
	(Chris Zhong) /Project Engineer	Date
Prepared By	Jade Chen	2015-09-14
	(Jade Chen) /Clerk	Date
Checked By	Owen Zhou	2015-09-14
	(Owen Zhou) /Reviewer	Date

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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2009 KDB662911 D01Multiple Transmitter Output v02r01	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2009	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2009 KDB662911 D01Multiple Transmitter Output v02r01	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009 KDB662911 D01Multiple Transmitter Output v02r01	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009 KDB662911 D01Multiple Transmitter Output v02r01	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS



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5 General Information

5.1 Client Information

Applicant:	SZ DJI TECHNOLOGY CO., LTD
Address of Applicant:	14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen, China
Manufacturer:	SZ DJI TECHNOLOGY CO., LTD
Address of Manufacturer:	14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen, China
Factory:	SZ DJI TECHNOLOGY CO., LTD
Address of Factory:	14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen, China

5.2 General Description of EUT

Product Name:	AIR UNIT
Model No.:	R810A
Trade Mark:	DJI
Operation Frequency:	2406.5MHz to 2476.5MHz
Test channel :	Low channel:2406.5 MHz
	Middle channel:2436.5 MHz
	High channel:2476.5MHz
Type of Modulation:	OFDM
Sample Type:	Fixed production
Antenna Configuration:	Multiple Transmitting
Antenna Type and Gain:	Type : External Antenna
	Gain : 2.0dBi
	Number of antennas: NANT=2
	Directional gain GANT=5.01dBi

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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2406.5MHz	4	2436.5MHz	7	2466.5MHz		
2	2416.5MHz	5	2446.5MHz	8	2476.5MHz		
3	2426.5MHz	6	2456.5MHz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For OFDM:

Channel	Frequency		
The Lowest channel	2406.5MHz		
The Middle channel	2436.5MHz		
The Highest channel	2476.5MHz		



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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with OFDM modulation.

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

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

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.



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5.6 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.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

The 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

	Conducted Emission						
Item	Test Equipment Manufacturer		Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-14	2016-05-13	
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-25	2015-10-24	
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-14	2016-05-13	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	SEL0162	2015-08-31	2016-08-30	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	SEL0163	2015-08-31	2016-08-30	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	SEL0164	2015-08-31	2016-08-30	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-14	2016-05-13	
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-14	2016-05-13	
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-25	2015-10-24	
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-25	2015-10-24	
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-14	2016-05-13	





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	RF in chamber					
ltem	Test Equipment Manufacturer		Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-14	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2014-09-17	2015-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-25	2015-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-25	2015-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-10-25	2015-10-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-14	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-25	2015-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-14	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-14	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-14	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-14	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2015-05-14	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-14	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-25	2015-10-24
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-25	2015-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-14	2016-05-13
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-25	2015-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-14	2016-05-13



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	RF Conducted Test					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-25	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-25	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-25	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-14	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-14	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-14	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-04-26	2016-04-25
8	Band filter	amideon	82346	SEL0094	2015-05-14	2016-05-13
9	POWER METER	R & S	NRVS	SEL0144	2014-10-25	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-04-26	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-25	2015-10-24

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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

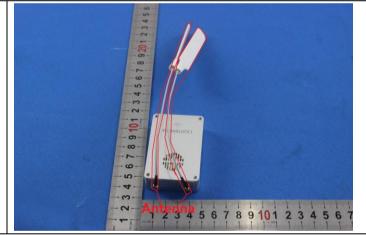
15.203 requirement:

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.





The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.0dBi and directional gain GANT=5.01dBi.

Since the device was designed that the signal was split into two parts by one module and transmit through two antennas, and according to the description in KDB662911 "For the purposes of this guidance, transmitter output signals are considered correlated if any of the following are true: The same digital data are transmitted from two or more antennas in a given symbol period, even with different coding or phase shifts", so the device belongs to categorization as correlated.



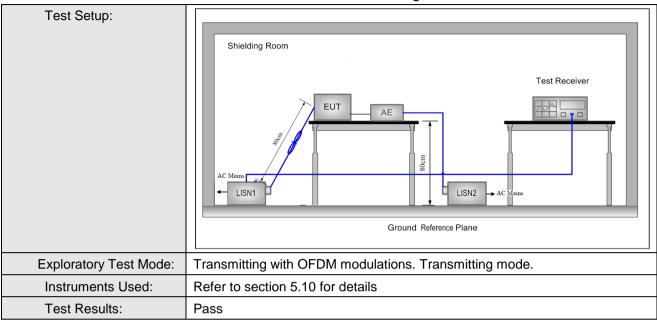
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Test Requirement:	47 CFR Part 15C Section 15.2	207		
Test Method:	ANSI C63.10: 2009			
Test Frequency Range:	150kHz to 30MHz			
Limit:		Limit (c	BuV)	
	Frequency range (MHz)	Quasi-peak	Average	_
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	-
	5-30 * Decreases with the logarithm	60	50	
Test Procedure:	 The mains terminal disturbution The EUT was connected to Impedance Stabilization Nation impedance. The power call connected to a second LIS plane in the same way as the multiple socket outlet stript single LISN provided the rational structure placed on the horizontal gradient of the EUT shall be 0.4 mm vertical ground reference plane. The LISN unit under test and bonded mounted on top of the group between the closest points 	b AC power source thro etwork) which provides oles of all other units of N 2, which was bonded the LISN 1 for the unit k was used to connect m ating of the LISN was n ced upon a non-metallion and for floor-standing art ound reference plane, th a vertical ground reference plane was bonded to the 1 was placed 0.8 m fro to a ground reference und reference plane. The	bugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω line the EUT were d to the ground reference being measured. A nultiple power cables not exceeded. c table 0.8m above the rangement, the EUT erence plane. The red d reference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was	near ence to a ne was ear ne he
	 the EUT and associated ed 5) In order to find the maximule equipment and all of the in ANSI C63.10: 2009 on corr 	im emission, the relativ terface cables must be	e positions of	

6.2 Conducted Emissions



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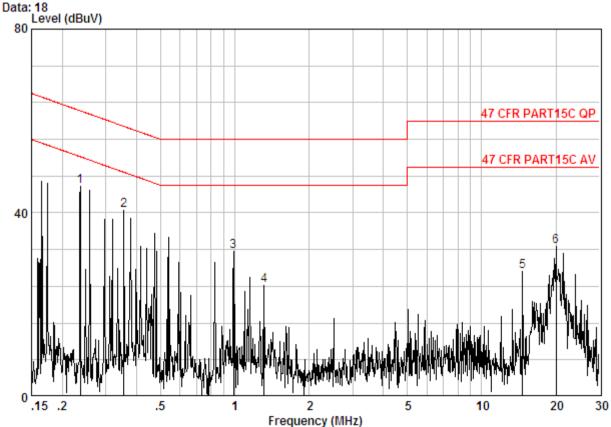
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:

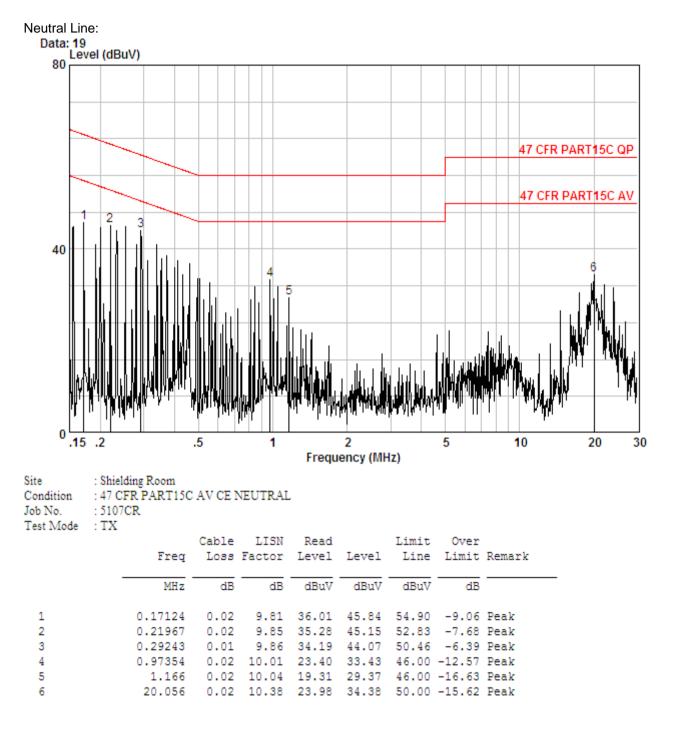




1030 101000									
			Cable	LISN	Read		Limit	Over	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB	dBuV	dBut	dBuV	dB	
		MIZ	uв	db	abuv	abuv	abuv	аb	
1		0.23658	0.02	9.84	35.86	45.71	52.22	-6.50	Peak
2		0.35576	0.01	9.85	30.64	40.50	48.83	-8.33	Peak
3		0.98914	0.02	9.89	21.61	31.52	46.00	-14.48	Peak
4		1.317	0.02	9.91	14.21	24.15	46.00	-21.85	Peak
5		14.672	0.01	10.16	17.16	27.34	50.00	-22.66	Peak
6		20.056	0.02	10.30	22.32	32.64	50.00	-17.36	Peak



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Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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6.3 Conducted Peak Output Power

.				
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10 2009			
	KDB662911 D01Multiple Transmitter Output v02r01			
Test Setup:				
	Spectrum Analyzer			
	E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark:			
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Test Instruments:	Refer to section 5.10 for details			
Exploratory Test Mode:	Transmitting with OFDM			
Limit:	30dBm			
Test Results:	Pass			



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Measurement Data

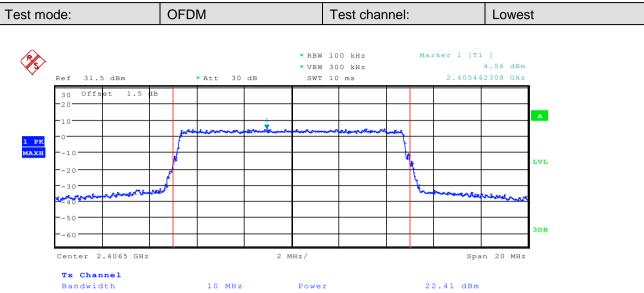
OFDM mode					
Test channel	Peak Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	22.41	22.67	25.55	30.00	Pass
Middle	22.13	22.28	25.22	30.00	Pass
Highest	22.14	21.83	25.00	30.00	Pass

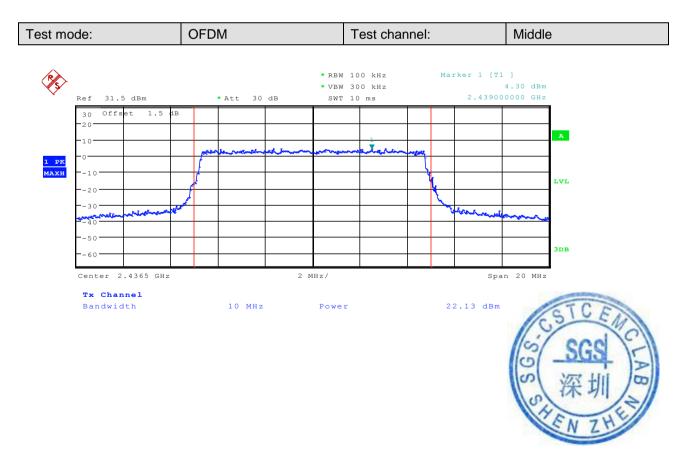


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Test plot as follows:

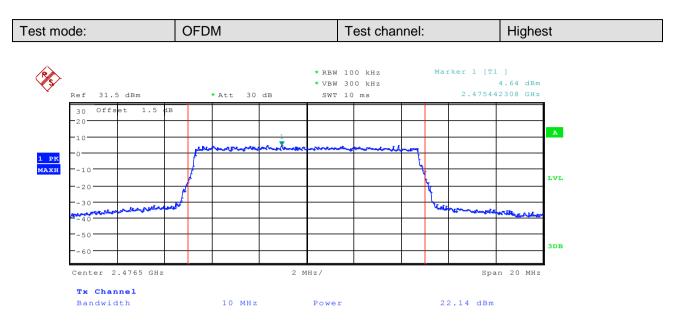
Antenna 1:



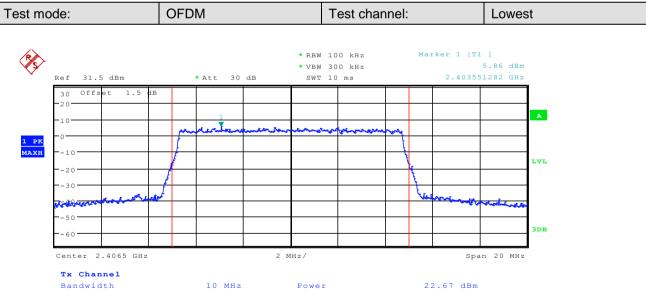




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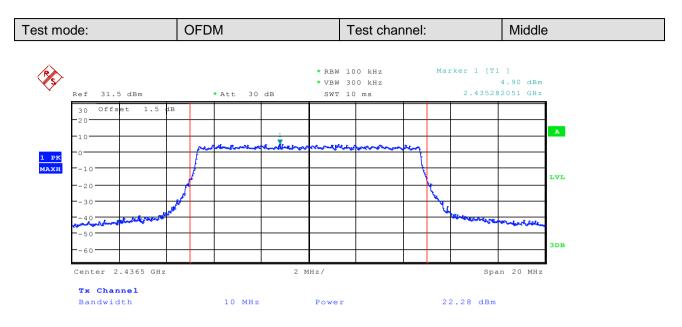


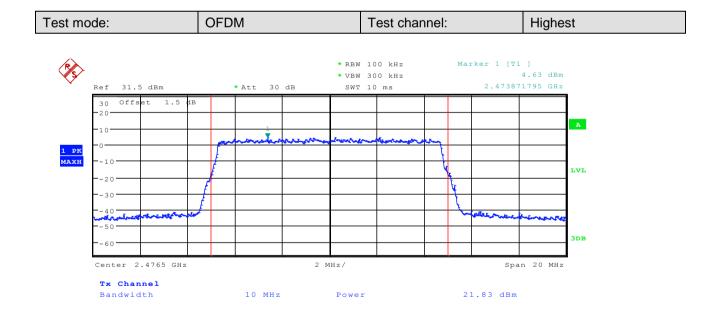
Antenna 2:





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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(2) Test Method: ANSI C63.10 2009 Test Setup: Spectrum Analyzer E.U.T G Non-Conducted Table **Ground Reference Plane** Instruments Used: Refer to section 5.10 for details Exploratory Test Mode: Transmitting with OFDM Limit: ≥ 500 kHz **Test Results:** Pass

6.4 6dB Occupy Bandwidth



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Measurement Data

Antenna 1:

OFDM mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result	
Lowest	9.487	≥500	Pass	
Middle	9.551	≥500	Pass	
Highest	9.551	≥500	Pass	

Antenna 2:

	OFDM mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	9.551	≥500	Pass
Middle	9.519	≥500	Pass
Highest	9.487	≥500	Pass



Test plot as follows:

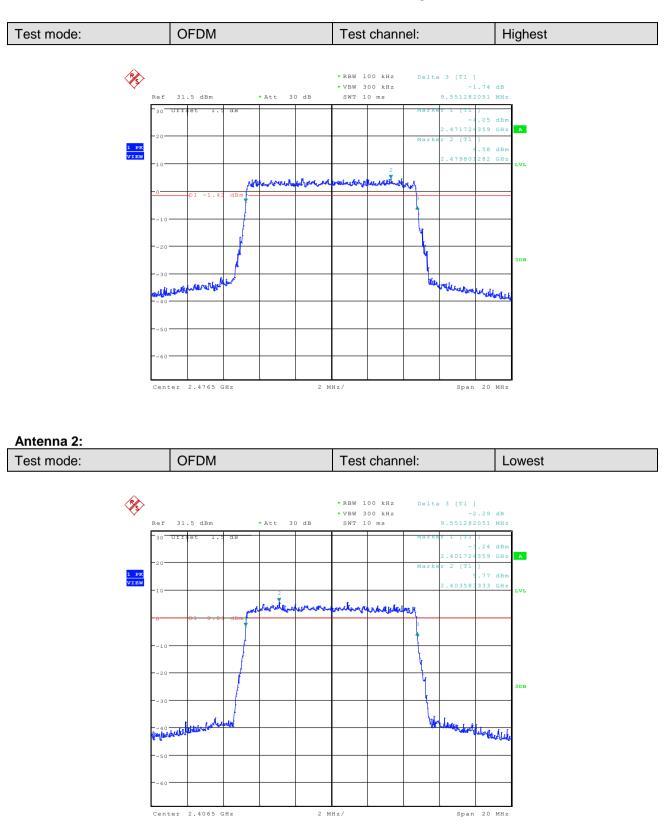
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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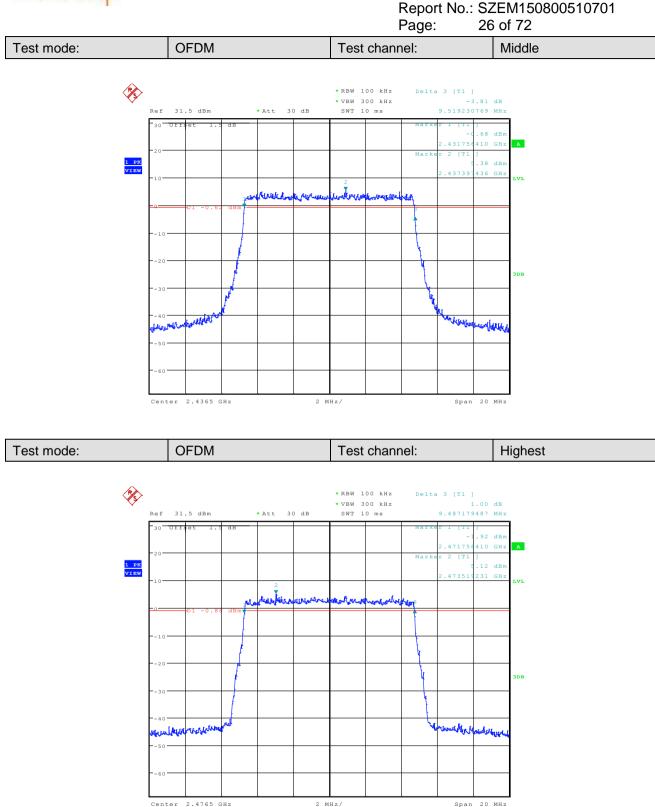
Antenna 1: OFDM Test mode: Test channel: Lowest Þ *RBW 100 kHz Delta 3 [T1] ★ VBW 300 kHz -0.23 dB 9.487179487 MHz Ref 31.5 dBm * Att 30 dB SWT 10 ms Off 27 dBr 69 dB: 1 PK VIEW 346 GH: MALAIN . ania the filt and be her alar. 2.4065 GHz 20 MHz Center 2 MHz, Span Test mode: OFDM Test channel: Middle Ż Delta 3 [T1 * RBW 100 kHz * VBW 300 kHz 31.5 dBm 30 dB 10 ms 9.551282051 MHz * Att SWT 89 dB: GH 1 PK VIEW 33 dB: 1 shows Allert -DB Matrian A Center 2.4365 GHz 2 MHz/ Span 20 MHz



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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)			
Test Method:	ANSI C63.10 2009			
	KDB662911 D01Multiple Transmitter Output v02r01			
Test Setup:				
	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Test Instruments:	Refer to section 5.10 for details			
Exploratory Test Mode:	Transmitting with OFDM			
Limit:	≤8.00dBm/3kHz			
Test Results:	Pass			



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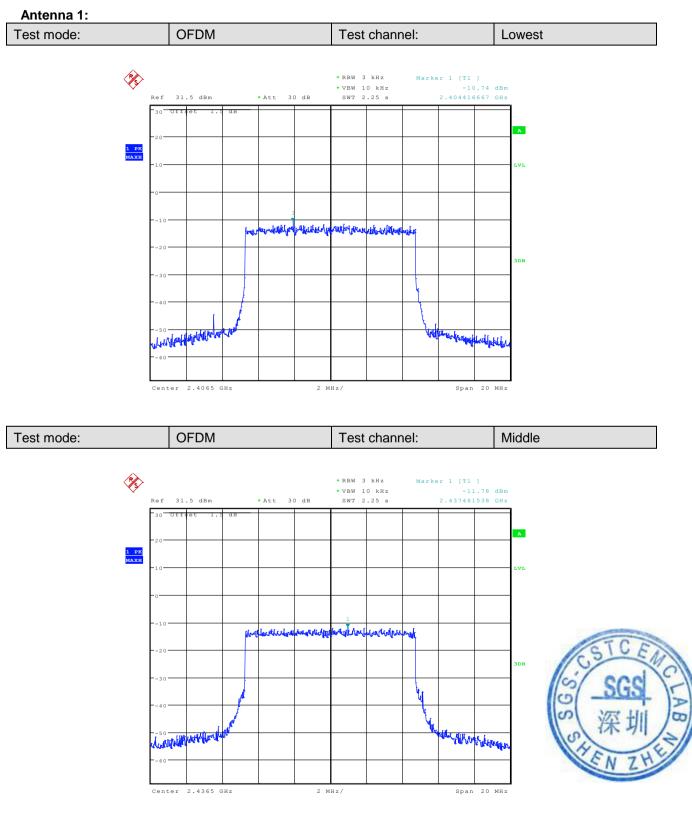
Measurement Data

OFDM mode					
Test channel	Power Spectral Density (dBm)			Limit (dBm/3kHz)	Result
	Antenna 1	Antenna 2	Total		
Lowest	-10.74	-10.55	-7.63	≤8.00	Pass
Middle	-11.78	-10.68	-8.18	≤8.00	Pass
Highest	-11.29	-11.25	-8.26	≤8.00	Pass



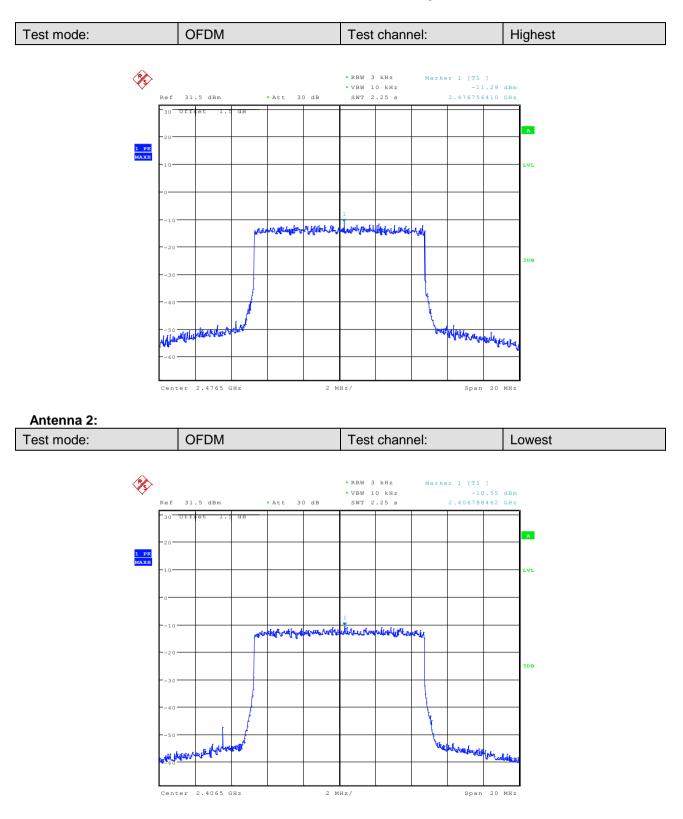
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Test plot as follows:



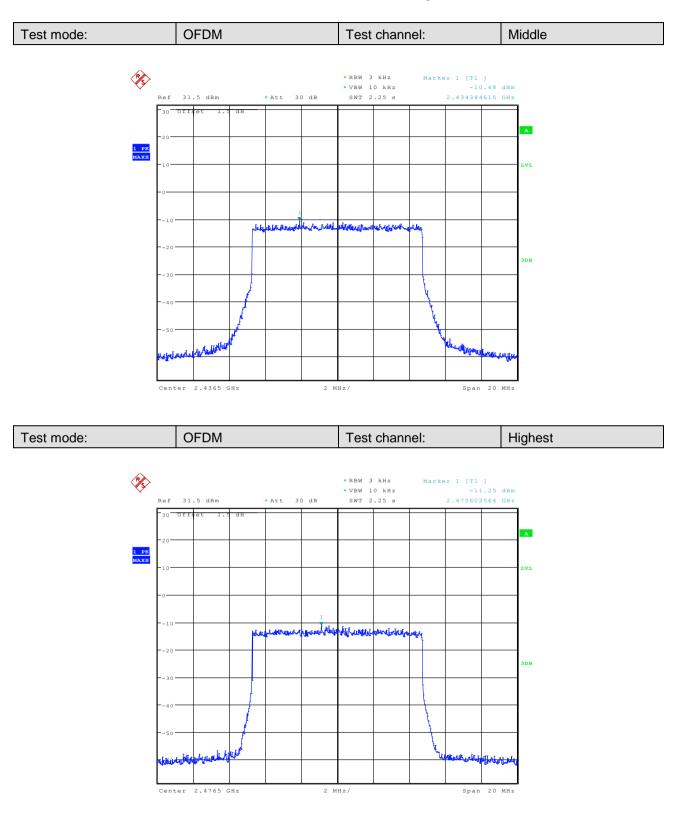


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ole Balla eage for h				
Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10 2009			
	KDB662911 D01Multiple Transmitter Output v02r01			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Exploratory Test Mode:	Transmitting with OFDM			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread			
	spectrum 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.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			

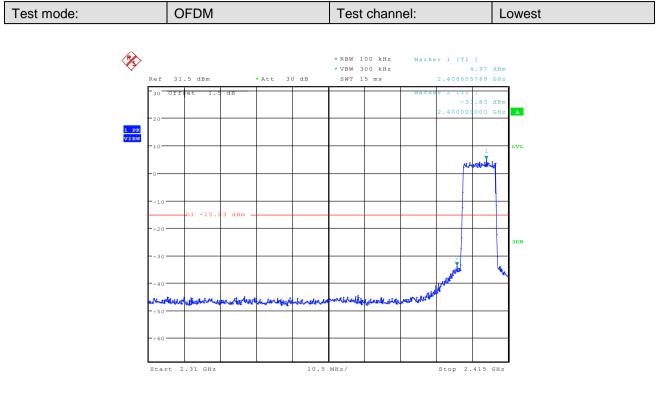
6.6 Band-edge for RF Conducted Emissions



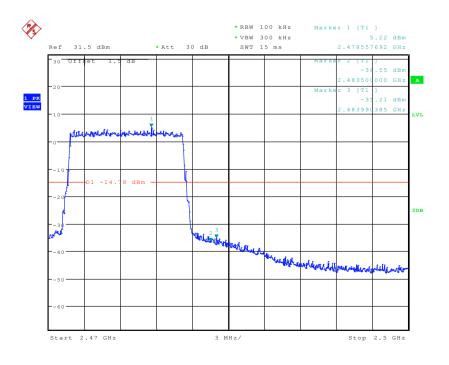
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Test plot as follows:

Antenna 1:

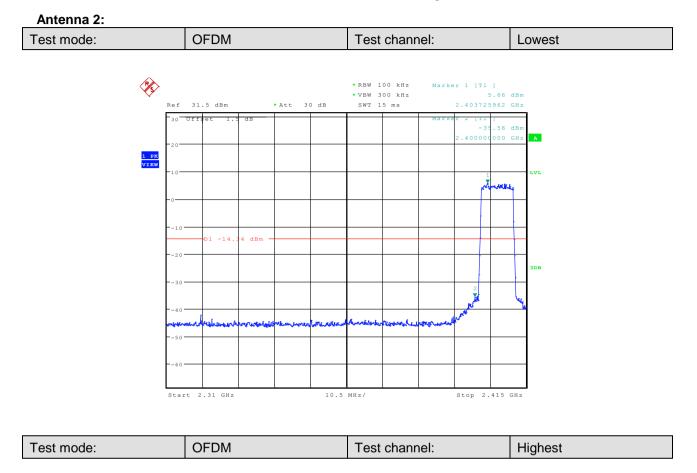


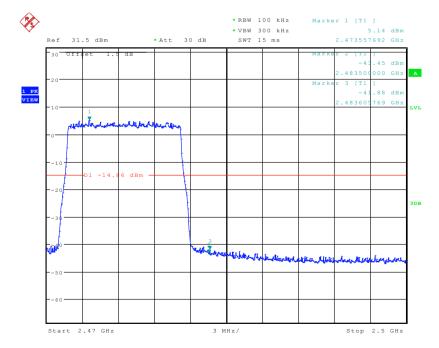
Test mode:	OFDM	Test channel:	Highest
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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10 2009			
	KDB662911 D01Multiple Transmitter Output v02r01			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Exploratory Test Mode:				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			

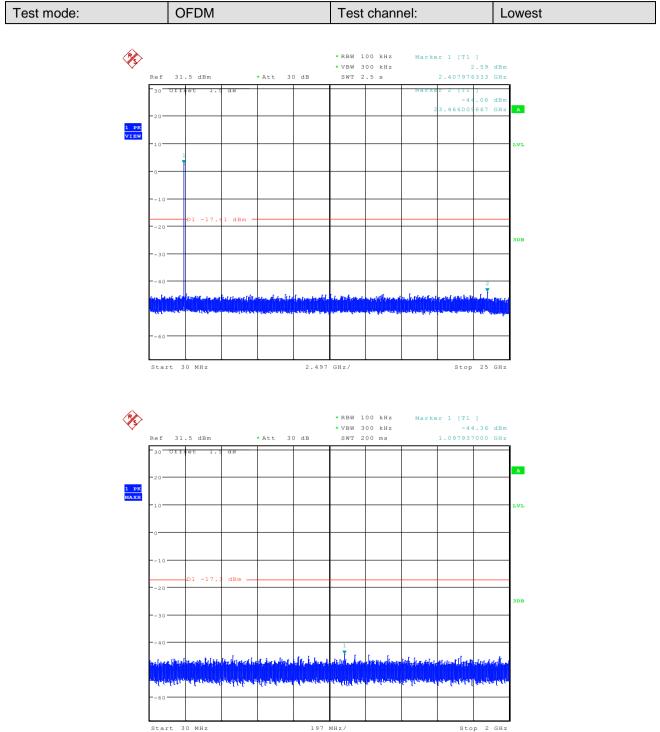
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms_e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



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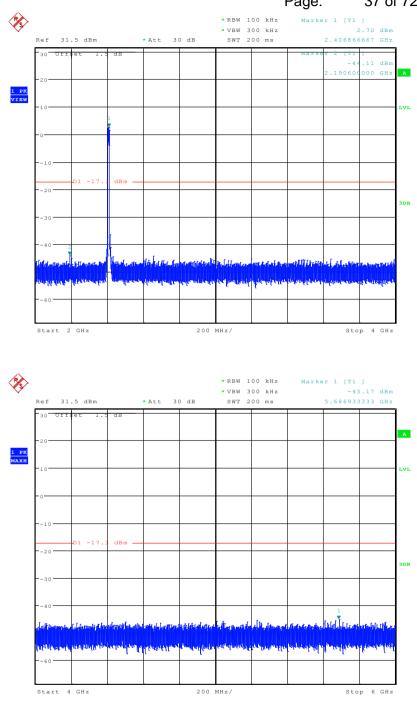
Test plot as follows:

Antenna 1:

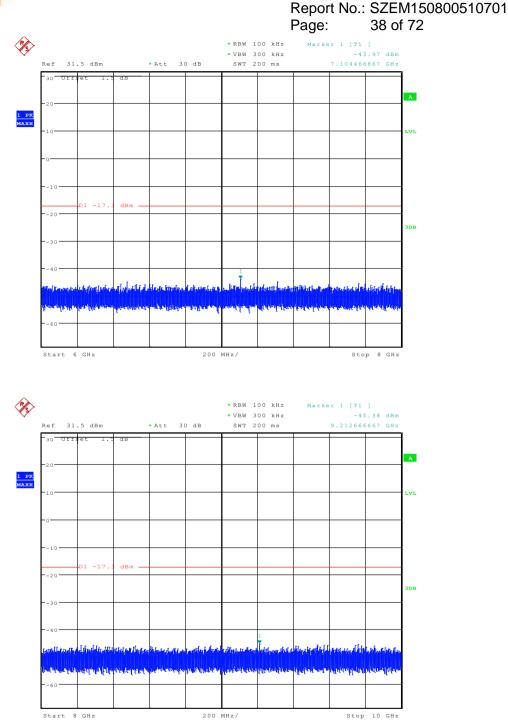




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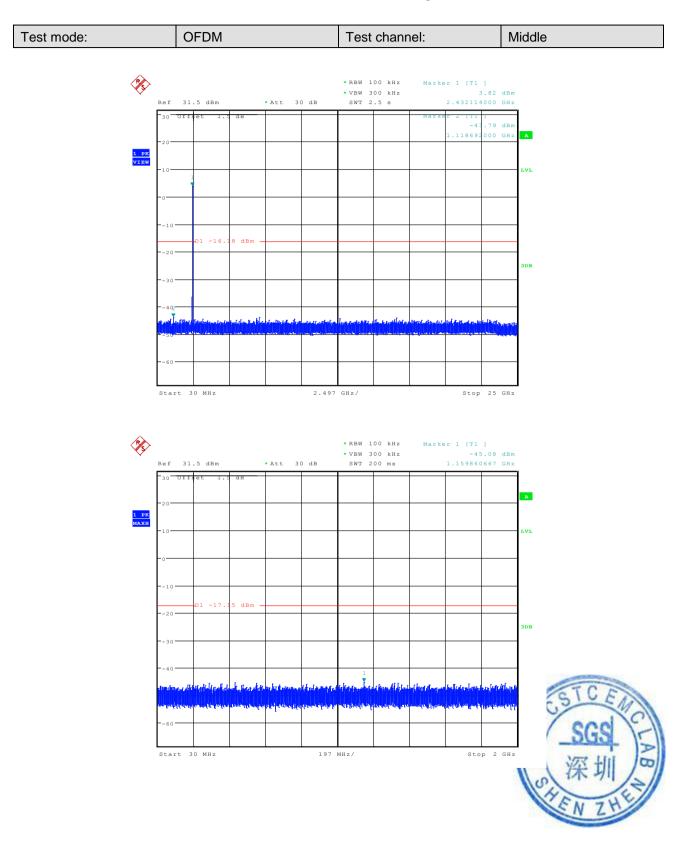






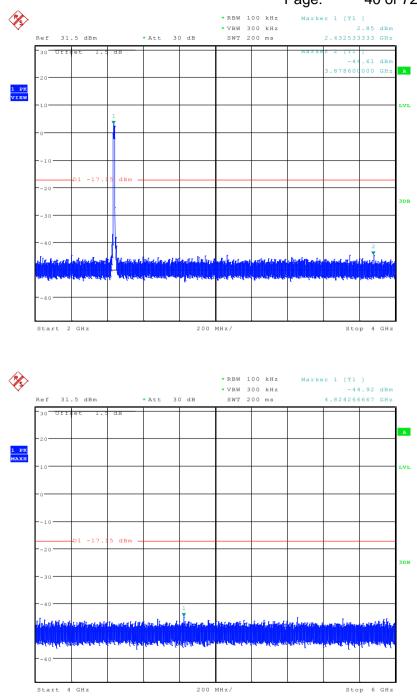


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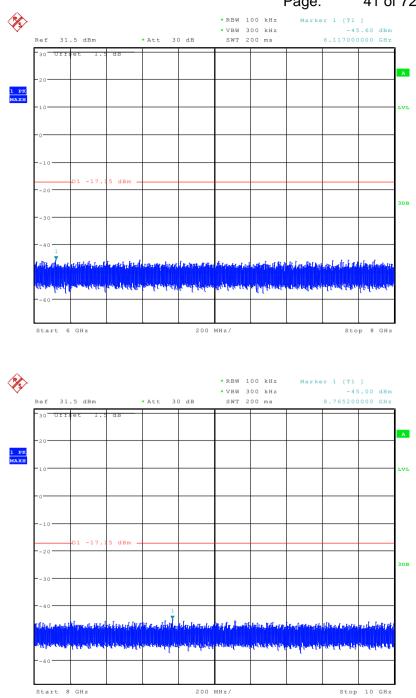


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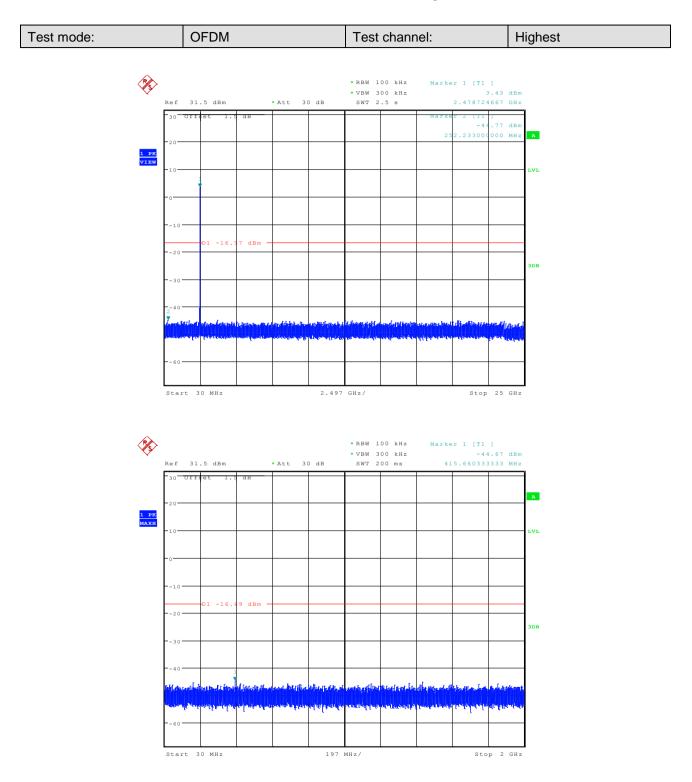


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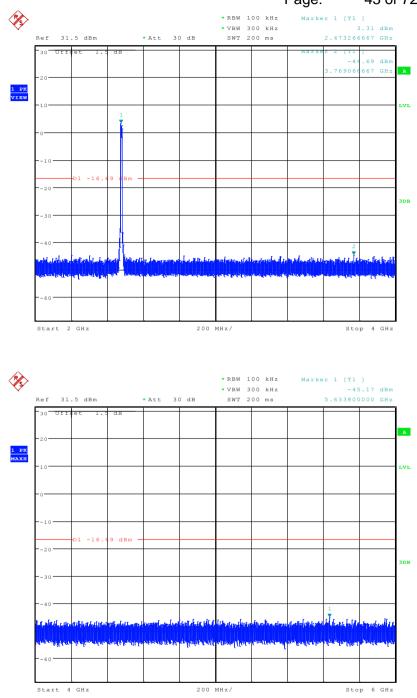


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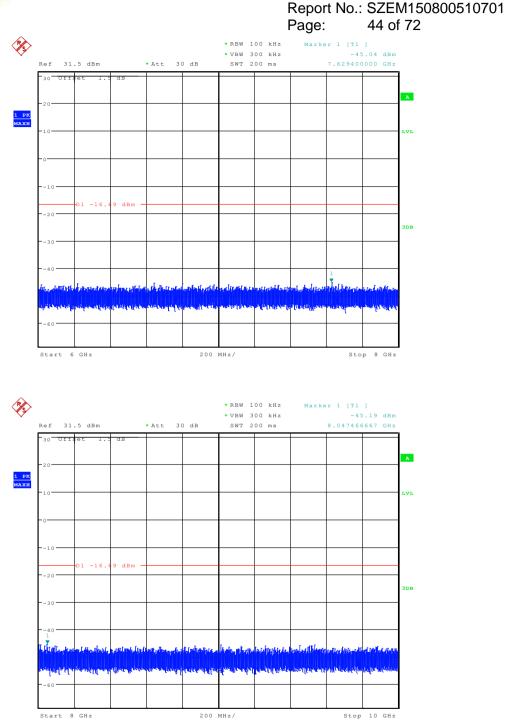




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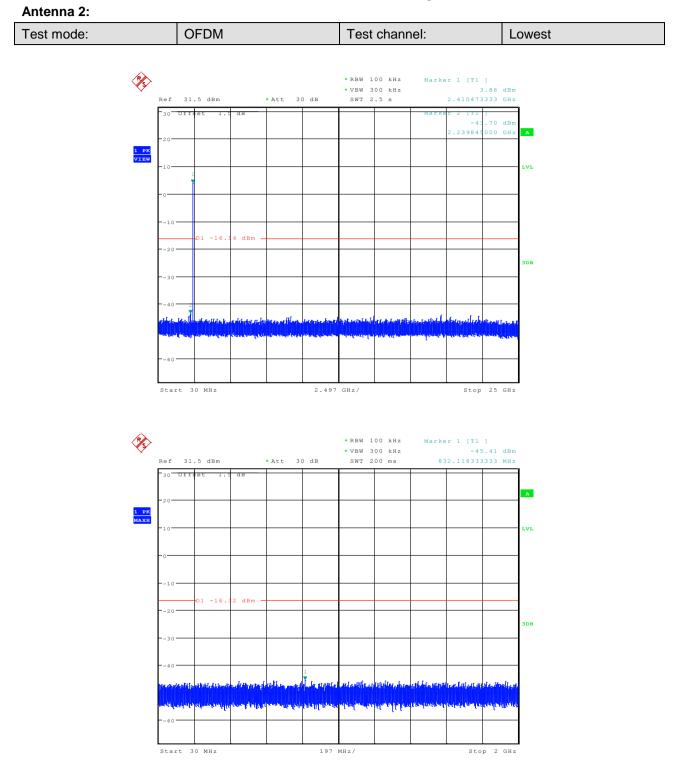






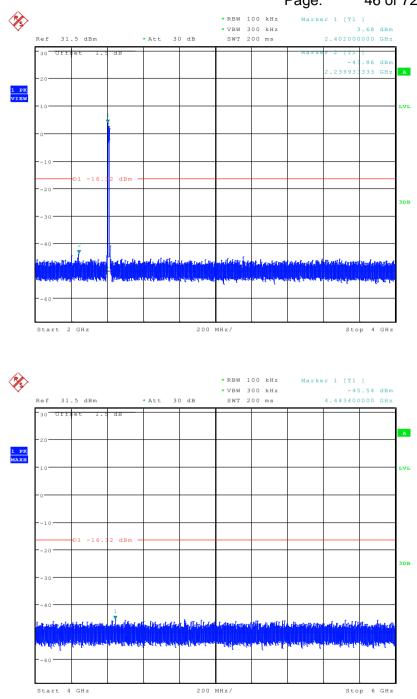


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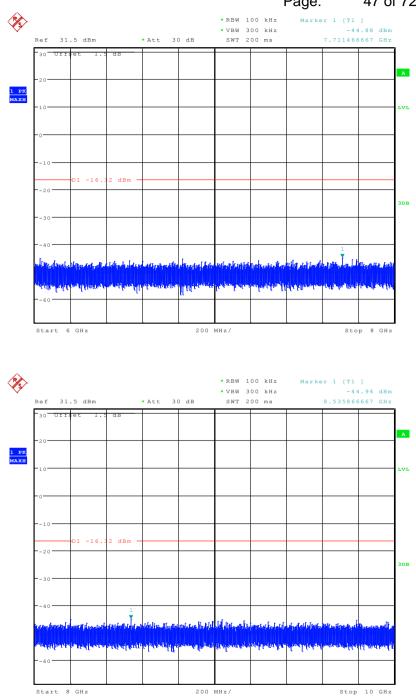


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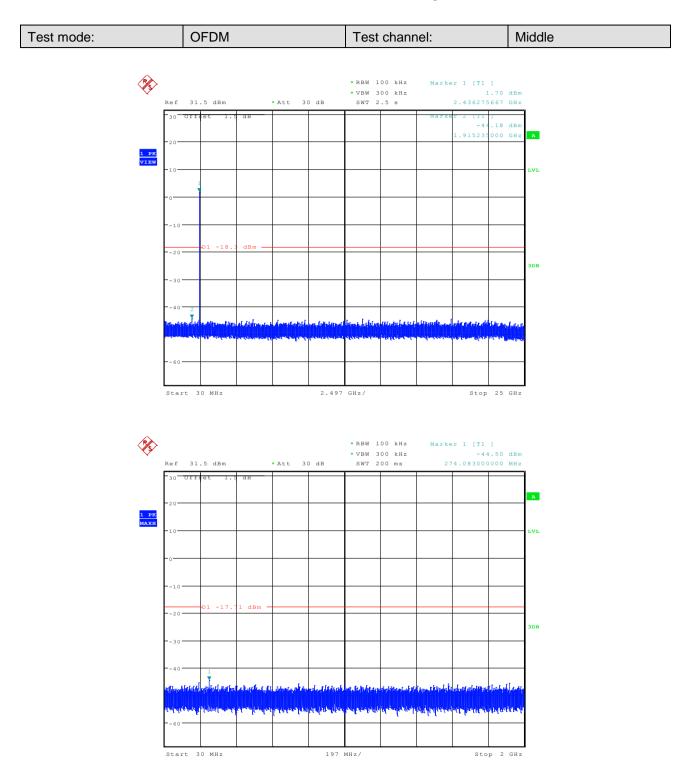


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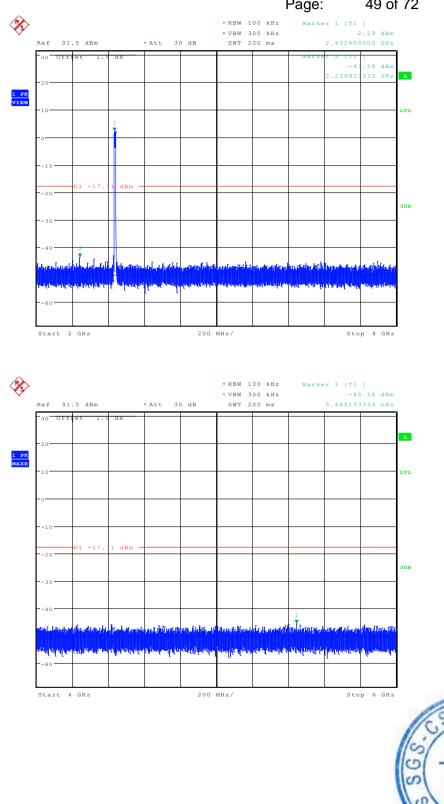


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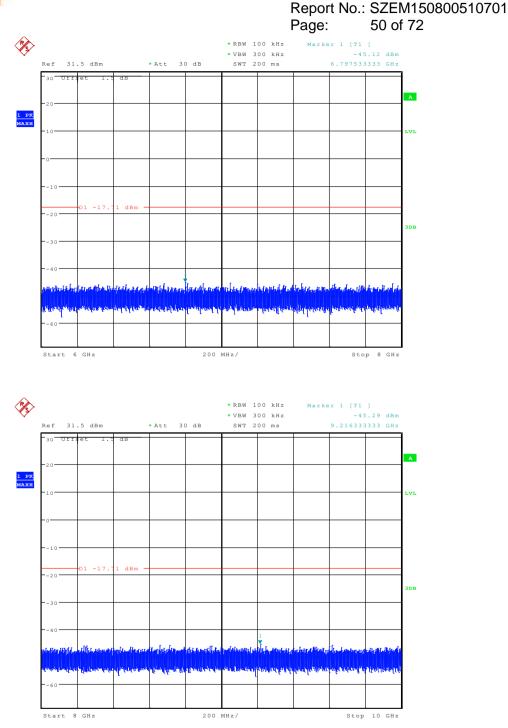




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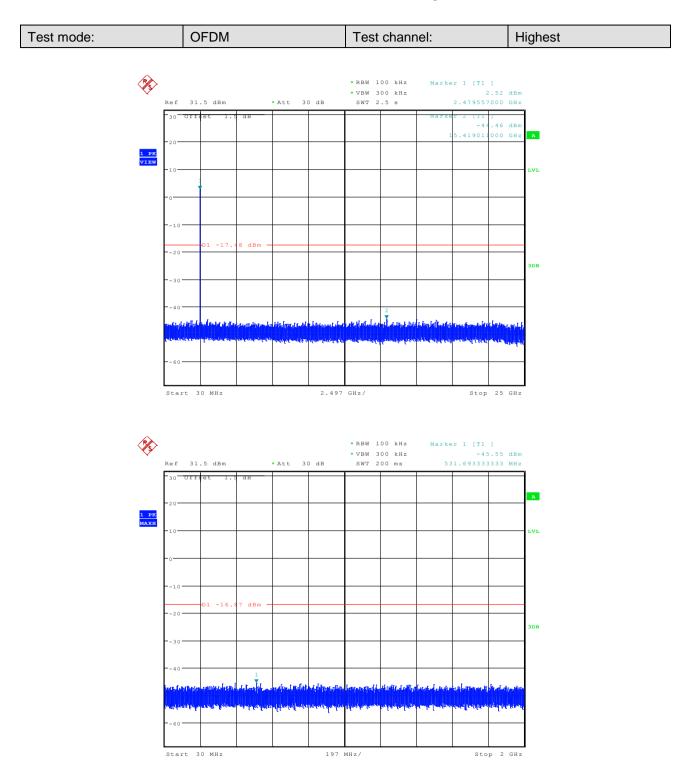




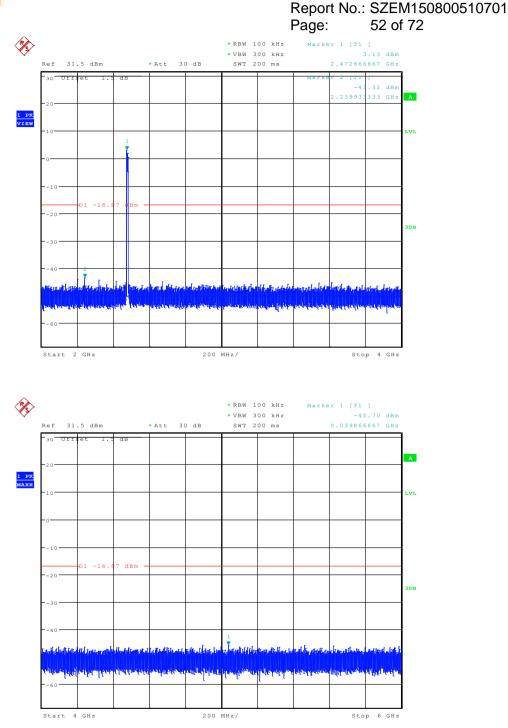




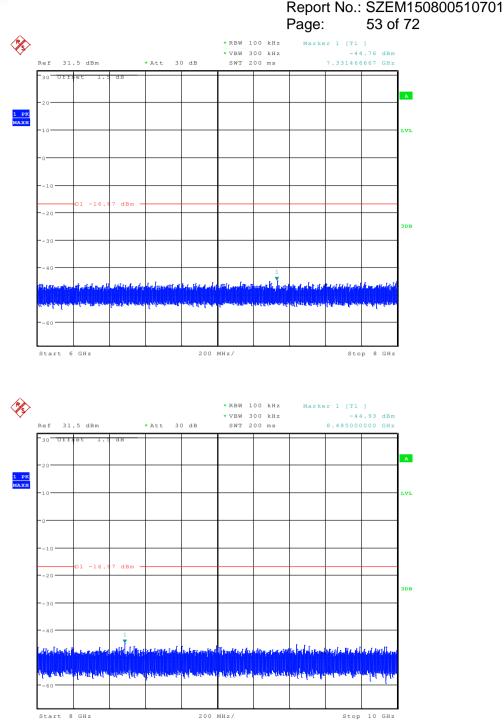
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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



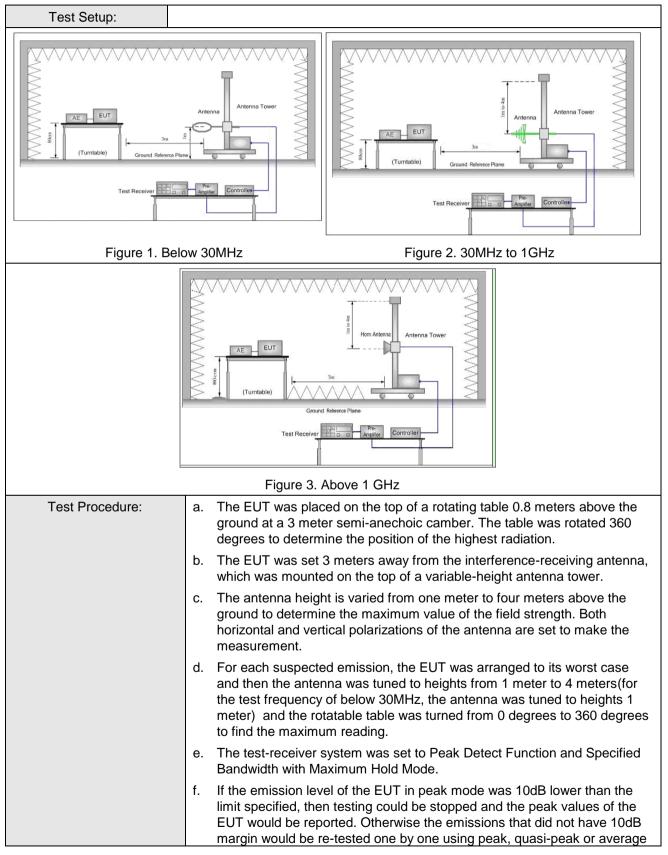
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6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2009							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above TGH2	Peak	1MHz	10Hz	Average			
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total pe emission level radiated by the device.							



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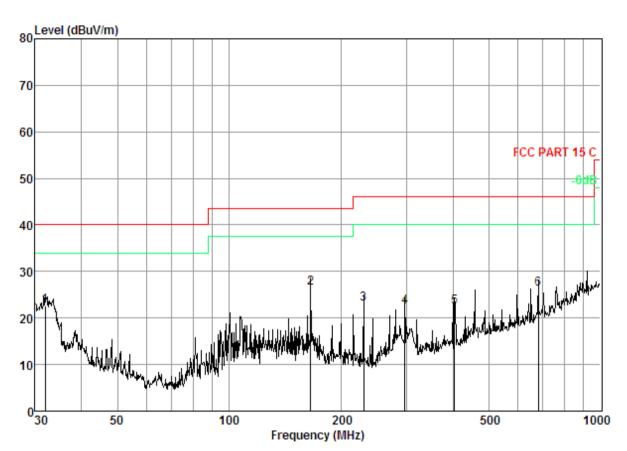
	Ŭ			
	method as specified and then reported in a data sheet.			
	g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel			
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. 			
	i. Repeat above procedures until all frequencies measured was complete.			
Exploratory Test Mode:	Transmitting with OFDM. Transmitting mode.			
Instruments Used:	Instruments Used: Refer to section 5.10 for details			
Test Results:	Pass			



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6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical

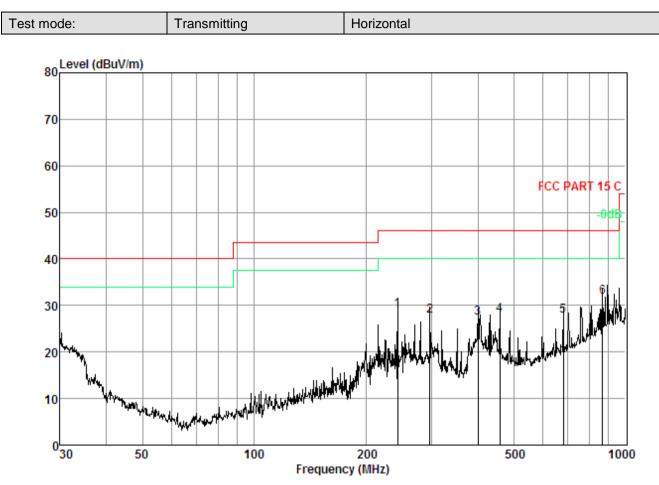


Condition: FCC PART 15 C 3m 3142C VERTICAL : 5107CR

Test Mode: TX CableAntenna Preamp Read Limit 0ver Frea Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 31.95 0.67 21.40 25.69 26.23 22.61 40.00 -17.39 1 2 3 43.50 -17.01 165.49 1.94 9.50 25.10 40.15 26.49 23.02 46.00 -22.98 230.10 2.34 8.10 37.34 24.76 4 297.22 2.75 9.58 25.03 35.01 22.31 46.00 -23.69 5 404.67 3.29 33.29 22.42 46.00 -23.58 11.4525.61 6 679.96 4.53 16.4026.36 31.67 26.24 46.00 -19.76



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Condition: FCC PART 15 C 3m 3142C HORIZONTAL : 5107CR Test Mode: TX

est	mode: IX							
		CableA	\ntenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	301123	ι. L	(ab) III	<u>~</u>	abar	abar, m	abar, m	<u>~</u>
1	243.38	2.43	8.00	24.81	43.30	28.92	46 00	-17.08
2	297.22	2.75	9.58	25.03	40.40	27.70	46.00	-18.30
3	400.43	3.29	11.30	25.72	38.49	27.36	46.00	-18.64
4	459.11	3.60	13.40	26.07	37.05	27.98	46.00	-18.02
5	679.96	4.53	16.40	26.36	33.14	27.71	46.00	-18.29
6	866.09	5.20	19.40	26.16	33.31	31.75	46.00	-14.25

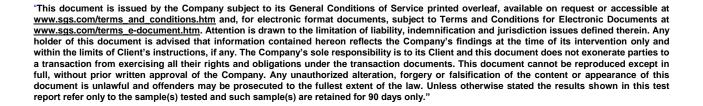


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Test mode:	t mode: OFDM Test channel: Lowest Remark:		I	Peak				
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3472.071	7.02	32.86	38.73	46.53	47.68	74	-26.32	Vertical
4813.000	6.44	34.71	39.24	47.10	49.01	74	-24.99	Vertical
6051.874	8.07	36.24	39.18	47.03	52.16	74	-21.84	Vertical
7219.500	8.94	35.62	39.07	46.07	51.56	74	-22.44	Vertical
9626.000	9.98	37.38	37.92	43.52	52.96	74	-21.04	Vertical
11372.800	10.36	38.15	38.41	43.31	53.41	74	-20.59	Vertical
3610.398	6.90	33.01	38.79	46.16	47.28	74	-26.72	Horizontal
4813.000	6.44	34.71	39.24	47.10	49.01	74	-24.99	Horizontal
6051.874	8.07	36.24	39.18	47.03	52.16	74	-21.84	Horizontal
7219.500	8.94	35.62	39.07	47.10	52.59	74	-21.41	Horizontal
9626.000	9.98	37.38	37.92	43.57	53.01	74	-20.99	Horizontal
11740.650	10.50	38.44	38.58	42.93	53.29	74	-20.71	Horizontal

6.8.2 Transmitter emission above 1GHz

Test mode:	de: OFDM Test channel: Middle Remar		Remark	:	Peak			
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3417.246	7.13	32.80	38.70	45.56	46.79	74	-27.21	Vertical
4873.000	6.57	34.77	39.26	46.62	48.70	74	-25.30	Vertical
6069.413	8.06	36.22	39.18	46.50	51.60	74	-22.40	Vertical
7309.500	9.06	35.52	39.06	47.13	52.65	74	-21.35	Vertical
9746.000	9.91	37.75	37.85	42.77	52.58	74	-21.42	Vertical
10795.570	10.16	37.92	38.12	42.86	52.82	74	-21.18	Vertical
3257.913	7.44	32.41	38.63	46.06	47.28	74	-26.72	Horizontal
4873.000	6.57	34.77	39.26	46.93	49.01	74	-24.99	Horizontal
6051.874	8.07	36.24	39.18	47.03	52.16	74	-21.84	Horizontal
7309.500	9.06	35.52	39.06	46.17	51.69	74	-22.31	Horizontal
9746.000	9.91	37.75	37.85	43.51	53.32	74	-20.68	Horizontal
11860.170	10.55	38.56	38.64	42.23	52.70	74	-21,30	Horizontal
							01	Vet LIN





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Test mode:	Test mode: OFDM		Test cha	innel:	Highest	Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3462.037	7.04	32.85	38.72	46.16	47.33	74	-26.67	Vertical	
4953.000	6.74	34.85	39.29	47.31	49.61	74	-24.39	Vertical	
6051.874	8.07	36.24	39.18	47.03	52.16	74	-21.84	Vertical	
7419.500	9.21	35.43	39.05	45.85	51.44	74	-22.56	Vertical	
9953.000	9.80	38.36	37.73	43.30	53.73	74	-20.27	Vertical	
10968.760	10.26	38.07	38.21	43.84	53.96	74	-20.04	· Vertical	
3368.157	7.22	32.70	38.68	45.46	46.70	74	-27.30	Horizontal	
4953.000	6.74	34.85	39.29	46.71	49.01	74	-24.99	Horizontal	
6008.249	8.08	36.29	39.18	46.63	51.82	74	-22.18	Horizontal	
7429.500	9.22	35.43	39.05	46.71	52.31	74	-21.69	Horizontal	
9906.000	9.82	38.23	37.76	42.06	52.35	74	-21.65	Horizontal	
11372.800	10.36	38.15	38.41	43.31	53.41	74	-20.59	Horizontal	

Remark:

1) 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

- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, 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. So, only the peak measurements were shown in the report.

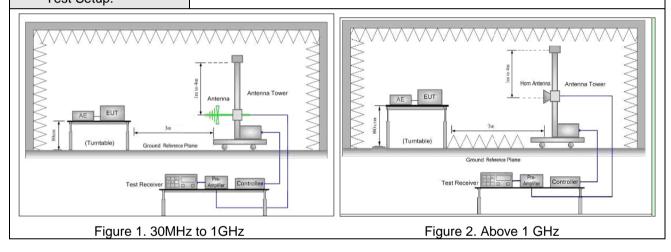
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms_e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 2009	ANSI C63.10 2009						
Test Site:	Measurement Distance: 3r	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1011	54.0	Average Value					
	Above TGH2	Above 1GHz 74.0 Peak Value						
Test Setup:								





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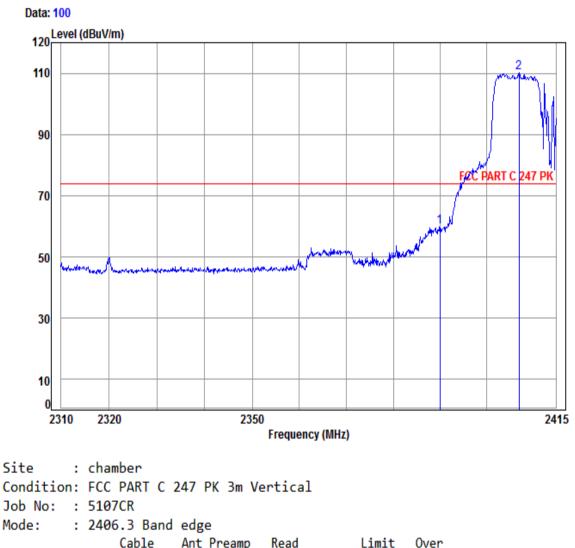
Test Procedure:	 a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	c. 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.
	d. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	g. Test the EUT in the lowest channel , the Highest channel
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	 Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with OFDM. Transmitting mode.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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Test plot as follows:										
Worse case mode:	OFDM	Test channel:	Lowest	Remark:	Peak	Vertical				

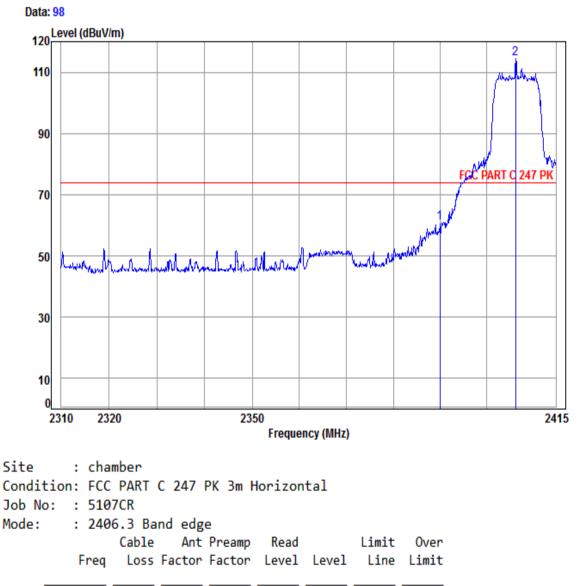


		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	61.19	59.98	74.00	-14.02
2 pp	2407.07	4.92	32.41	38.46	111.32	110.19	74.00	36.19



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Worse case mode: OFDM Test	hannel: Lowest	Remark:	Peak	Horizontal
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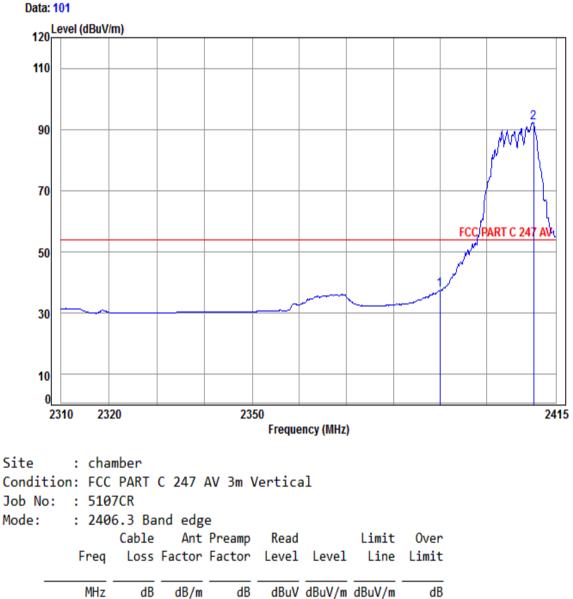


-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2390.00 2406.32							



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Worse case mode: OFDM	Test channel:	Lowest	Remark:	Average	Vertical
-----------------------	---------------	--------	---------	---------	----------

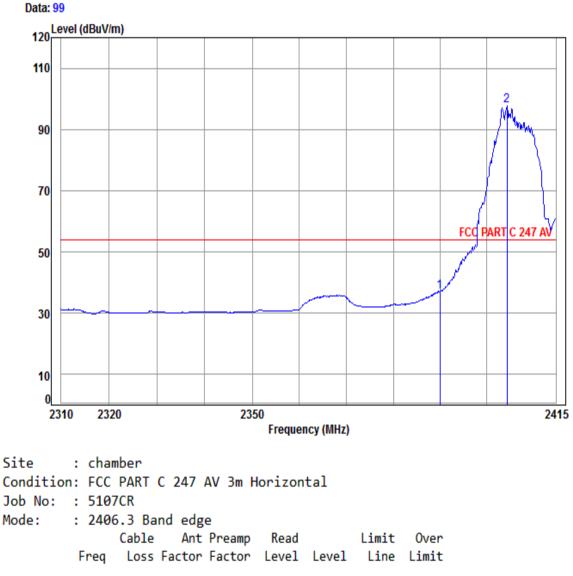


1	2390.00	4.90	32.35	38.46	38.89	37.68	54.00	-16.32
2 pp	2410.17	4.93	32.41	38.46	93.27	92.15	54.00	38.15



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Worse case mode: OFDM	Test channel:	Lowest	Remark:	Average	Horizontal
-----------------------	---------------	--------	---------	---------	------------

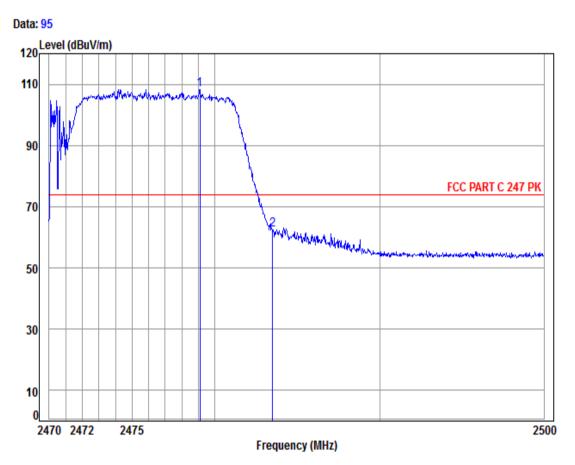


-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2390.00 2404.40							



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Worse case mode: OFDM	Test channel:	Highest	Remark:	Peak	Vertical
-----------------------	---------------	---------	---------	------	----------

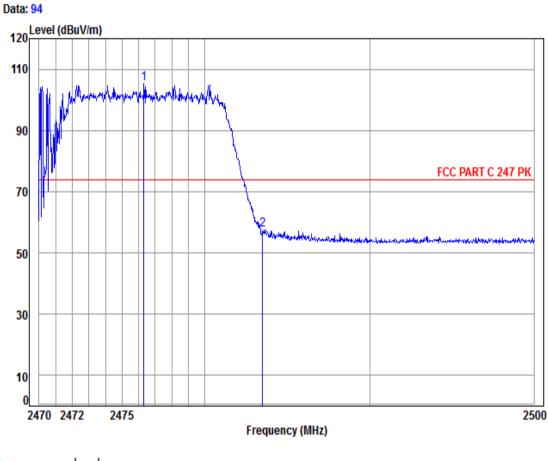


Site : chamber Condition: FCC PART C 247 PK 3m Vertical Job No: : 5107CR Mode: : 2476.5 Band edge								
nouer		Cable	Ant	Preamp	Read Level		Limit Line	Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2	2479.11 2483.50							



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Worse case mode: OFDM	Test channel:	Highest	Remark:	Peak	Horizontal	
-----------------------	---------------	---------	---------	------	------------	--

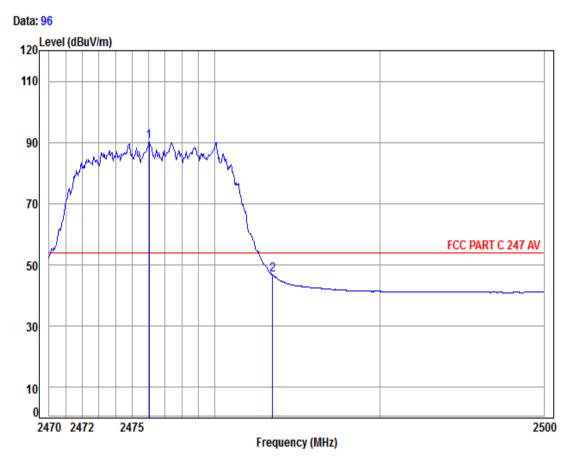


Site	Site : chamber									
Condit:	Condition: FCC PART C 247 PK 3m Horizontal									
Job No	: : 510	7CR								
Mode:	: 247	6.5 Ba	nd edg	e						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit		
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2476.33	5.02	32.44	38.47	106.19	105.18	74.00	31.18		
2	2483.50	5.03	32.44	38.47	58.44	57.44	74.00	-16.56		



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Worse case mode: OFDM	Test channel:	Highest	Remark:	Average	Vertical
-----------------------	---------------	---------	---------	---------	----------

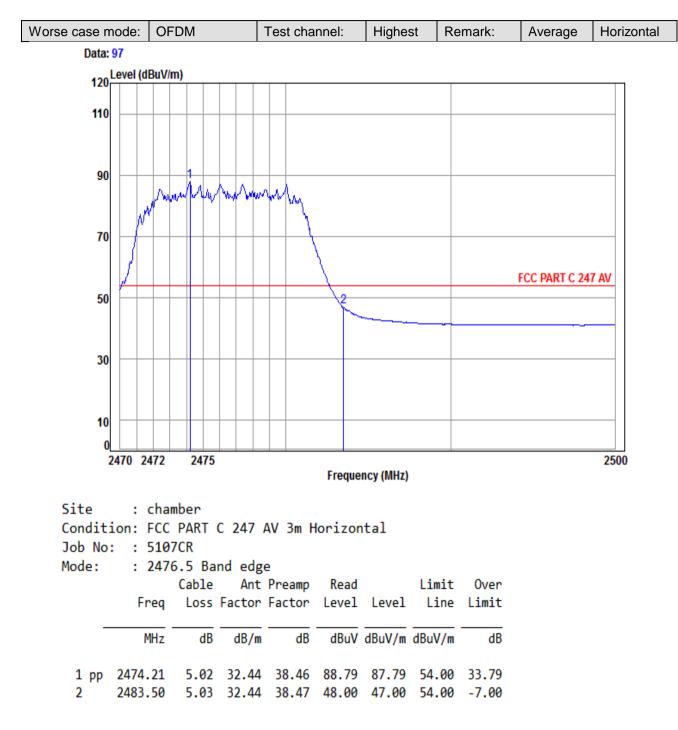


Site : chamber Condition: FCC PART C 247 AV 3m Vertical Job No: : 5107CR Mode: : 2476.5 Band edge								
		Cable	Ant	Preamp		Level	Limit Line	Over Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2	2476.03 2483.50							36.11 -7.30





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Note:

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



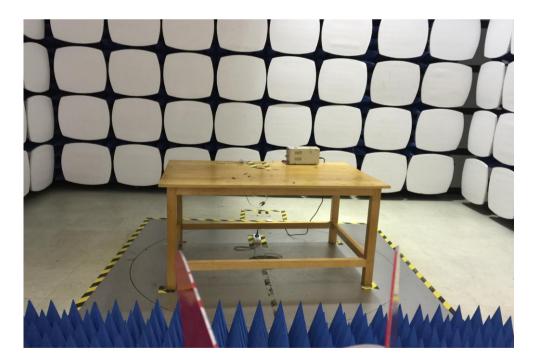
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7 Photographs - EUT Test Setup

Test model No.: R810A

7.1 Radiated Spurious Emission







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7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1508005107CR.