



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

Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: ee.shenzhen@sgs.com

Report No.: SZEM140700365501
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1 Cover Page

FCC REPORT

Application No.: SZEM1407003655RF
Applicant: Oregon Scientific Global Distribution Limited
Manufacturer: Oregon Scientific Global Distribution Limited
Factory: Oregon Scientific Global Distribution Limited
Product Name: jumbo wall clock with remote sensor
Model No.(EUT): SE11
Trade Mark: Oregon Scientific
FCC ID: YPG-SE11-01
Standards: 47 CFR Part 15, Subpart C (2013)
Date of Receipt: 2014-07-15
Date of Test: 2014-07-17 to 2014-07-25
Date of Issue: 2014-08-19

Test Result:	PASS *
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* 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.

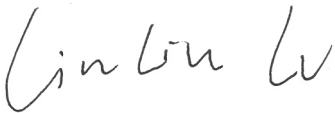
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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2014-08-19		Original

Authorized for issue by:				
Tested By		 (Back Huang) /Project Engineer		2014-07-25
				Date
Prepared By		 (Linlin Lv) /Clerk		2014-08-19
				Date
Checked By		 (Emen Li) /Reviewer		2014-08-19
				Date



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10(2009)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.231 (b)/15.209	ANSI C63.10(2009)	PASS
20dB Bandwidth	47 CFR Part 15, Subpart C Section 15.231 (c)	ANSI C63.10(2009)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.231 (e)	ANSI C63.10(2009)	PASS



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5 General Information

5.1 Client Information

Applicant:	Oregon Scientific Global Distribution Limited
Address of Applicant:	Block C, 9/F., Kaiser Estate, Phase 1, 41 Man Yue Street, Hunghom, Kowloon, Hong Kong
Manufacturer:	Oregon Scientific Global Distribution Limited
Address of Manufacturer:	Block C, 9/F., Kaiser Estate, Phase 1, 41 Man Yue Street, Hunghom, Kowloon, Hong Kong
Factory:	Oregon Scientific Global Distribution Limited
Address of Factory:	Block C, 9/F., Kaiser Estate, Phase 1, 41 Man Yue Street, Hunghom, Kowloon, Hong Kong

5.2 General Description of EUT

Product Name:	jumbo wall clock with remote sensor
Model No.:	SE11
Trade Mark:	Oregon Scientific
Sample Type:	Fixed production
Carrier Frequency:	433.9MHz
Channel Numbers:	1
Modulation Type:	ASK
Antenna Gain:	2dBi
Antenna Type:	Integral
Power Supply:	3.0V DC (1.5V X2 "AAA" size Batteries)
Test Voltage:	DC 3.0V new batteries



5.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Transmitting mode:	Keep transmitter at operation mode.

5.4 Description of Support Units

The EUT has been tested independent.

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.



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 3m Semi-anechoic chamber, Full-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.: R-2197, G-416, 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)**

Two 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-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

6 Equipment List

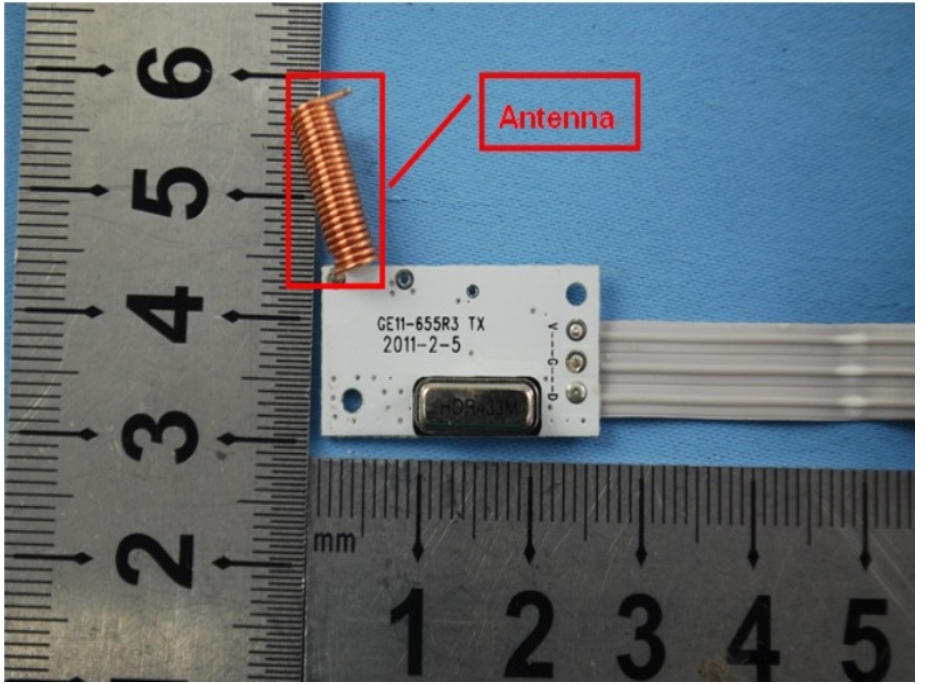
RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2015-05-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0027	2015-05-29
5	Coaxial cable	SGS	N/A	SEL0189	2015-05-29
6	Coaxial cable	SGS	N/A	SEL0121	2015-05-29
7	Coaxial cable	SGS	N/A	SEL0178	2015-05-29
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-16
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24
12	Barometer	ChangChun	DYM3	SEL0088	2015-05-16
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
14	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2014-10-24
15	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24
16	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-16
17	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-06-04

Note: The calibration interval is one year, all the instruments are valid.

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7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
<p>15.203 requirement:</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is fixed on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.</p>	



7.2 Spurious Emissions

7.2.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.231(e) and 15.209				
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
		Peak	1MHz	10Hz	Average
Limit: (Spurious Emissions)	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
<p>Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions</p> <p>is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.</p>					

Limit: (Field strength of the fundamental signal)		Frequency	Limit (dBuV/m @3m)	Remark
	433.9MHz		72.87	Average Value
			92.87	Peak Value
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>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.</p> <p>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.</p> <p>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(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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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.</p> <p>g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.</p>			
Test Setup:				

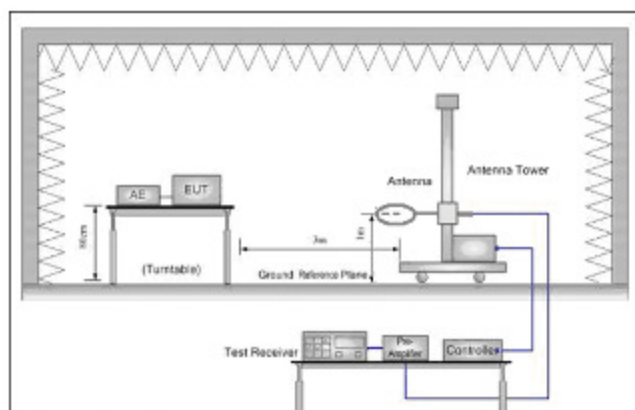


Figure 1. Below 30MHz

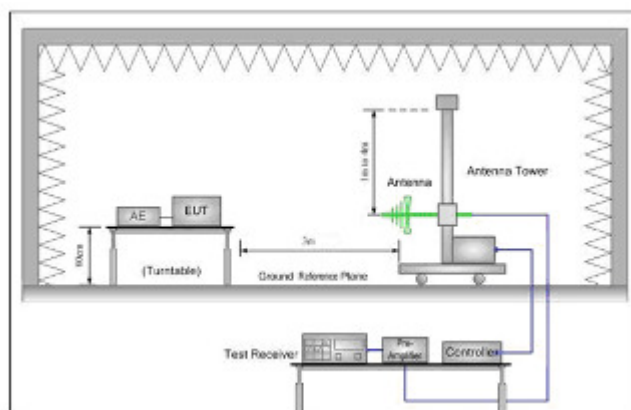


Figure 2. 30MHz to 1GHz

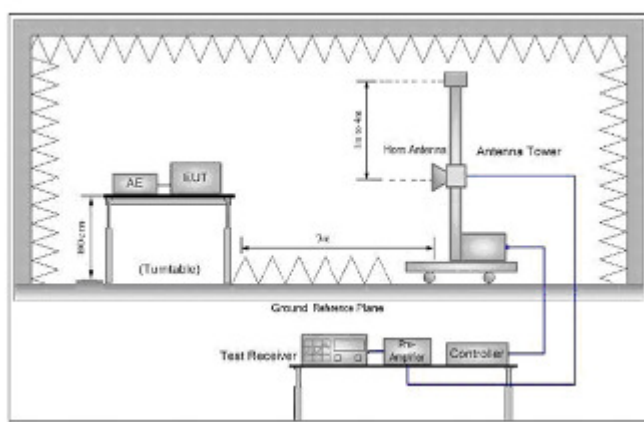


Figure 3. Above 1 GHz

Test Mode:	Transmitting mode
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

Measurement Data

7.2.1.1 Field Strength Of The Fundamental Signal

Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.90	2.35	12.10	87.44	74.56	92.87	-18.31	Horizontal
433.90	2.35	12.10	86.12	73.24	92.87	-19.63	Vertical

Average value:

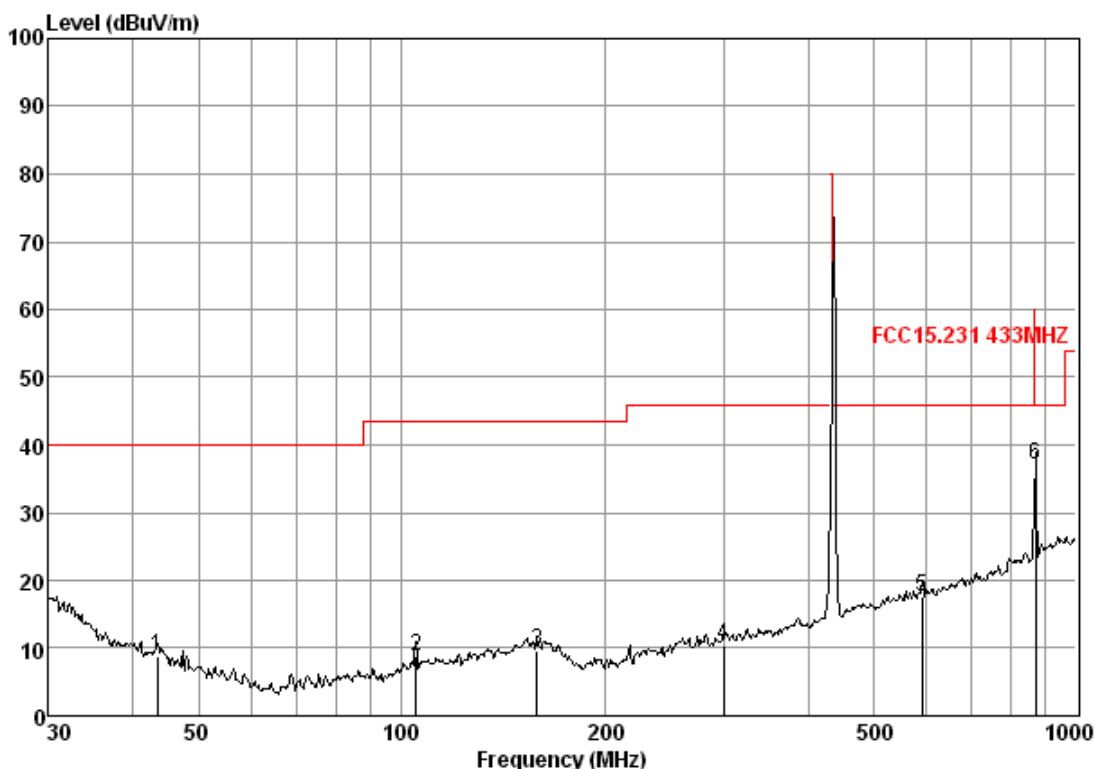
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.90	2.35	12.10	87.44	69.13	72.87	-3.74	Horizontal
433.90	2.35	12.10	86.12	67.78	72.87	-5.09	Vertical



7.2.1.2 Spurious Emissions

Below 1GHz

Vertical



Condition: FCC15.231 433MHZ 3m 3142C VERTICAL

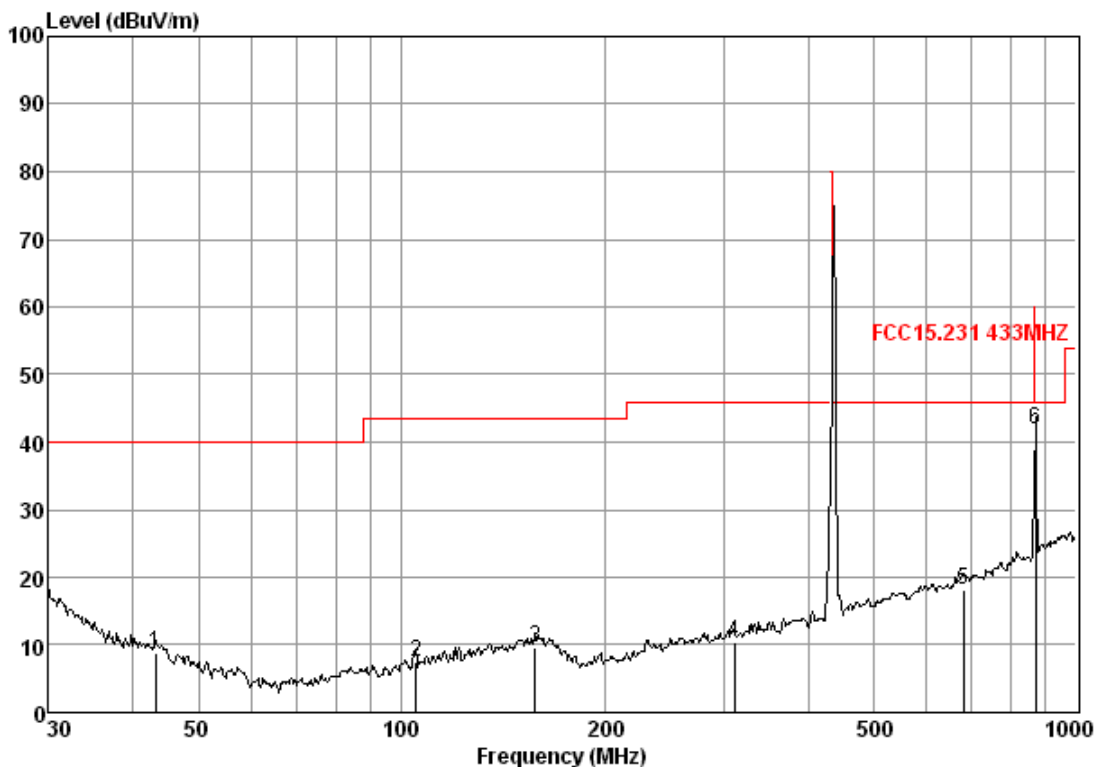
Job No. : 3655RF

Mode : Tx mode

	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	Factor	dB	dBuV	dBuV/m	dB
1	43.51	0.68	10.40	27.31	24.97	8.74	40.00	-31.26
2	104.90	1.21	6.90	27.17	27.89	8.83	43.50	-34.67
3	158.67	1.33	9.52	26.86	25.54	9.53	43.50	-33.97
4	300.37	1.90	9.70	26.40	25.09	10.29	46.00	-35.71
5	590.97	2.69	15.50	27.55	27.01	17.65	46.00	-28.35
6	869.13	3.49	19.60	26.92	40.77	36.94	46.00	-9.06



Horizontal



Condition: FCC15.231 433MHz 3m 3142C HORIZONTAL

Job No. : 3655RF

Mode : Tx mode

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	43.20	0.68	10.47	27.31	24.90	8.74	40.00
2	104.90	1.21	6.90	27.17	26.45	7.39	43.50
3	157.56	1.33	9.55	26.87	25.67	9.68	43.50
4	311.09	1.94	9.90	26.48	25.01	10.37	46.00
5	679.96	2.86	16.40	27.43	26.38	18.21	46.00
6	869.13	3.49	19.60	26.92	45.64	41.81	46.00



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Above 1GHz

Peak value:

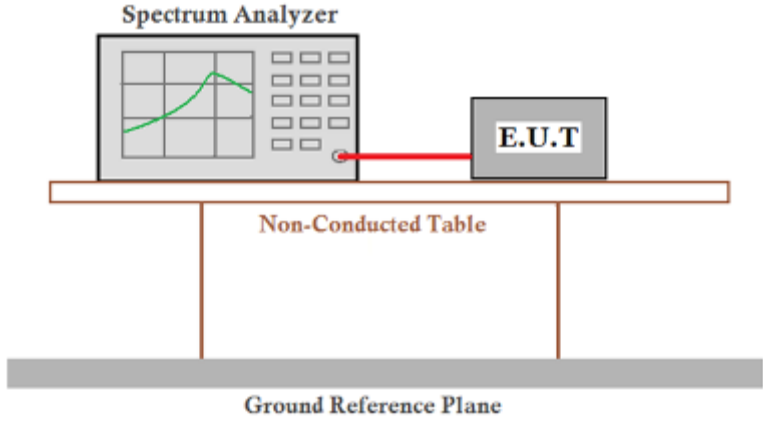
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1301.342	3.72	27.76	39.27	52.45	44.66	74	-29.34	Vertical
1755.644	4.13	29.95	39.46	46.26	40.88	74	-33.12	Vertical
2167.452	4.44	32.11	39.68	46.67	43.54	74	-30.46	Vertical
2812.786	4.91	33.14	40.16	46.75	44.64	74	-29.36	Vertical
3217.634	5.37	33.32	40.47	47.22	45.44	74	-28.56	Vertical
3752.885	6.11	33.51	40.86	47.65	46.41	74	-27.59	Vertical
1147.107	3.59	27.48	39.20	45.67	37.54	74	-36.46	Horizontal
1698.193	4.07	29.58	39.44	46	38.31	74	-35.69	Horizontal
2158.457	4.44	32.08	39.68	45.03	41.87	74	-32.13	Horizontal
2743.467	4.85	33.05	40.12	45.21	42.99	74	-31.01	Horizontal
3231.043	5.40	33.31	40.47	46.09	44.33	74	-29.67	Horizontal
3821.132	6.21	33.59	40.90	46.95	45.85	74	-28.15	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) 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.
- 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.

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7.3 20dB Bandwidth

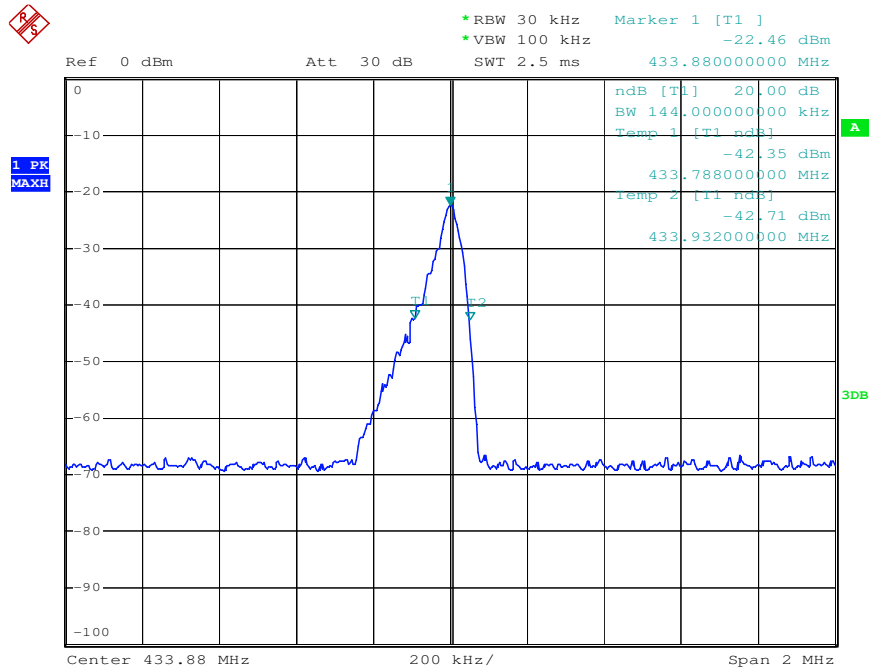
Test Requirement:	47 CFR Part 15C Section 15.231 (c)
Test Method:	ANSI C63.10:2009
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
Test Setup:	
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

Measurement Data

20dB bandwidth (MHz)	Limit (MHz)	Results
0.144	1.0848	Pass

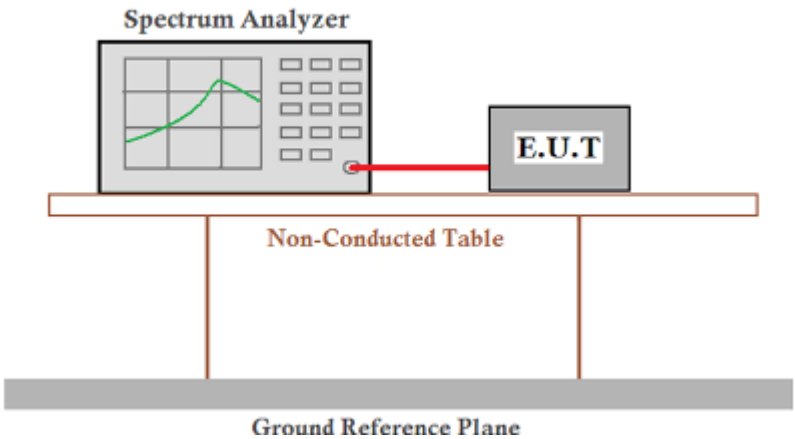


Test plot as follows:



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7.4 Occupy time

Test Requirement:	47 CFR Part 15C Section 15.231 (e)
Test Method:	ANSI C63.10:2009
Test Setup:	
Limit:	$T_{on} < 1s$, $T_{off} > 30 \cdot T_{on}$, the silent period $> 10s$
Test Mode:	Normal mode
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

Measurement Data

Test item	Limit	Results
T_{on}	1s	Pass
the silent period	$> 10s$	Pass

Remark :

$$T_{on} = 0.096s < 1s$$

$$T_{off} > 30 \cdot T_{on} = 30 \cdot 0.0962 = 2.886s$$



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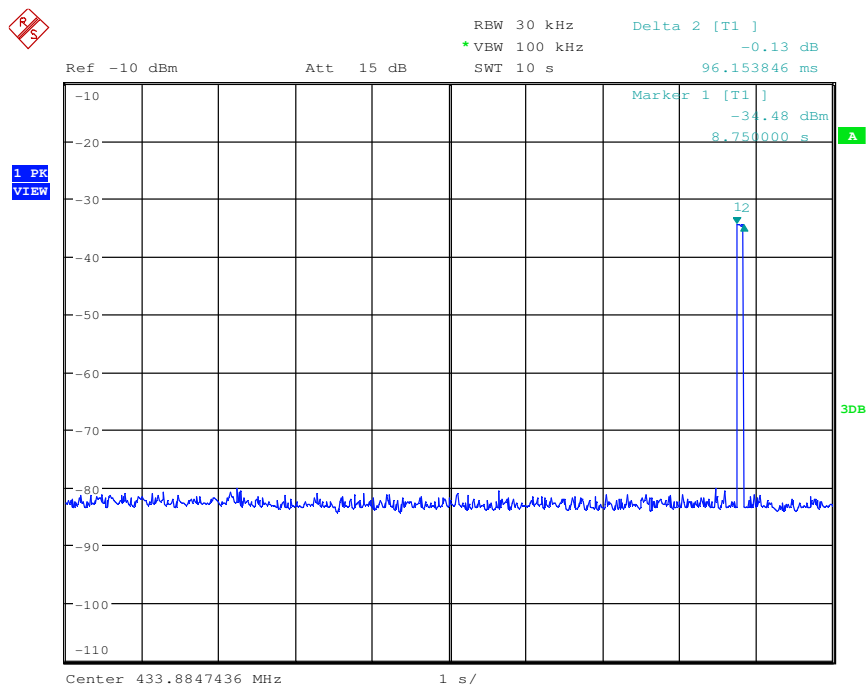
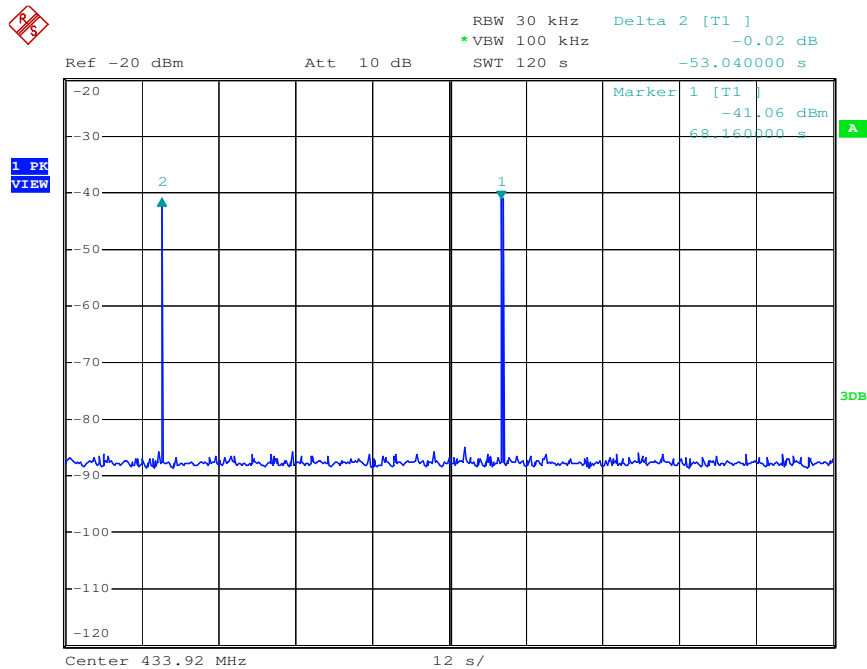


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Test plot as follows:



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