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Report No.: SZEM120700369401
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FCC REPORT

Application No.: SZEM1207003694RF
Applicant: ETHER ELECTRONICS CO., LTD.
Manufacturer: ETHER ELECTRONICS CO., LTD.
Factory: ETHER ELECTRONICS CO., LTD.
Product Name: Speedy Hot Water
Model No.(EUT): Speedy Hot Water 1002
FCC ID: UN9SPDYHTWTR
Standards: 47 CFR Part 15, Subpart C (2011)
Date of Receipt: 2012-07-04
Date of Test: 2012-07-05 to 2012-07-20
Date of Issue: 2012-07-27

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 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
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.231 (b)	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 (a)	ANSI C63.10(2009)	PASS



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4 General Information

4.1 Client Information

Applicant:	ETHER ELECTRONICS CO., LTD.
Address of Applicant:	4F, 5Building, DongFangMing Industrial Park, No.83, DaBao Road, BaoAn District, ShenZhen
Manufacturer:	ETHER ELECTRONICS CO., LTD.
Address of Manufacturer:	4F, 5Building, DongFangMing Industrial Park, No.83, DaBao Road, BaoAn District, ShenZhen
Factory:	ETHER ELECTRONICS CO., LTD.
Address of Factory:	4F, 5Building, DongFangMing Industrial Park, No.83, DaBao Road, BaoAn District, ShenZhen City, China

4.2 General Description of EUT

Name:	Speedy Hot Water
Mode No.:	Speedy Hot Water 1002
Sample Type:	Portable production
Operation Frequency:	315MHz
Modulation Type:	GFSK
Antenna Type:	Integral
Power Supply:	3.0V (button battery CR2032)
Test Voltage:	3.0V



4.3 Test Environment and Mode

Operating Environment:	
Temperature:	20.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	1005mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 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.



4.6 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)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



4.10 Test Instruments 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	2013-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2013-05-17
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0027	2013-05-29
5	Coaxial cable	SGS	N/A	SEL0189	2013-05-29
6	Coaxial cable	SGS	N/A	SEL0121	2013-05-29
7	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2012-10-29
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2012-10-29
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2013-05-17
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2012-11-26
12	Barometer	ChangChun	DYM3	SEL0088	2013-05-24
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2012-10-23
14	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2012-10-27
15	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2012-10-23
16	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2013-05-17
17	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2013-06-04



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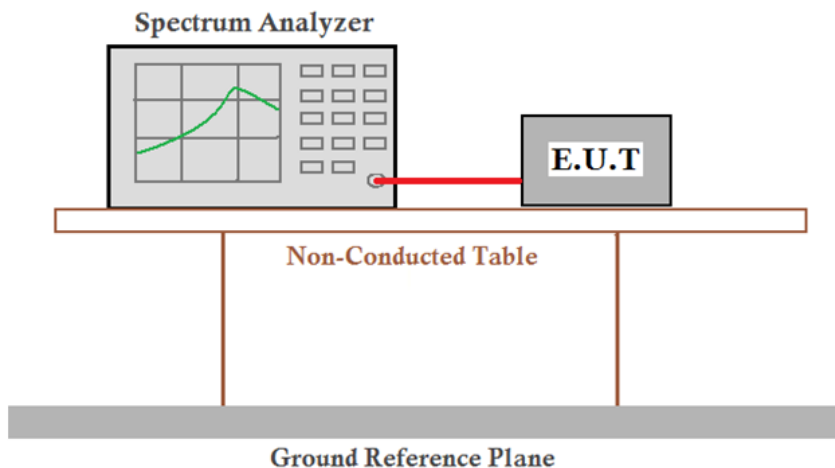
5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
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.	

5.2 Spurious Emissions

5.2.1 Duty Cycle

Test Requirement:	47 CFR Part 15C Section 15.35 (c)
Test Method:	ANSI C63.10:2009
Test Setup:	
Limit:	N/A
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



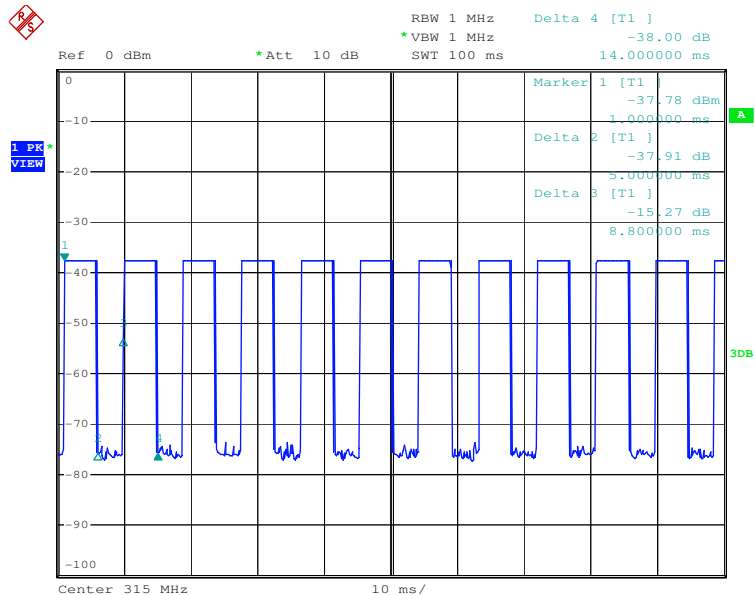
SGS-CSTC Standards Technical Services Ltd.

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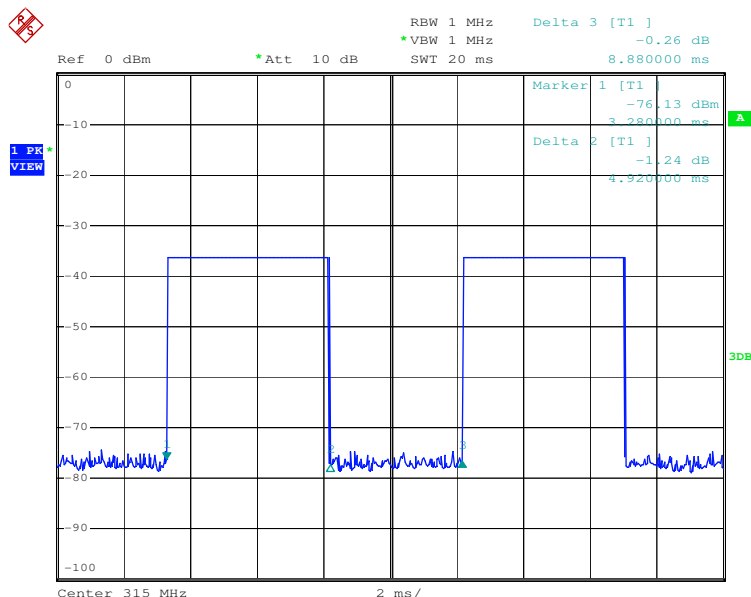
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Test plot as follows:

Duty cycle numbers:



Time slot:



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5.2.2 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.231(b) 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
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 peak emission level radiated by the device.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	315MHz	75.62		Average Value	
		95.62		Peak Value	

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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. 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:</p>	

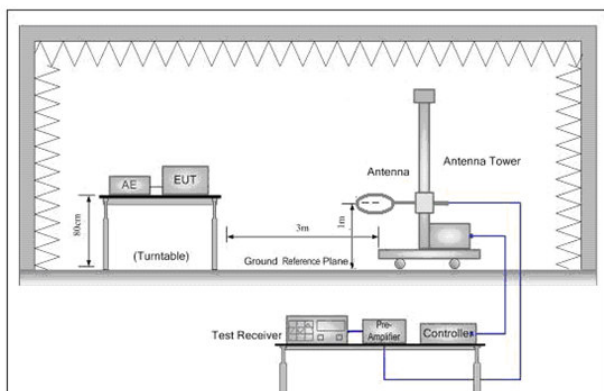


Figure 1. Below 30MHz

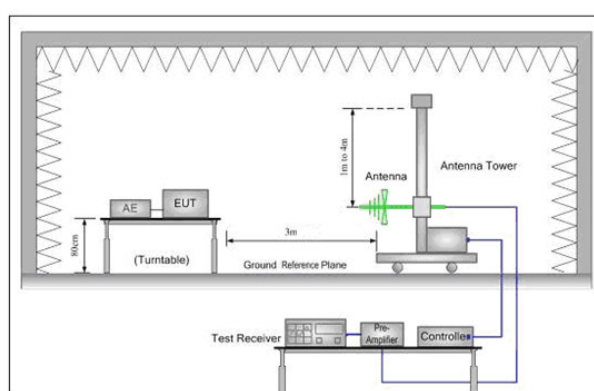


Figure 2. 30MHz to 1GHz

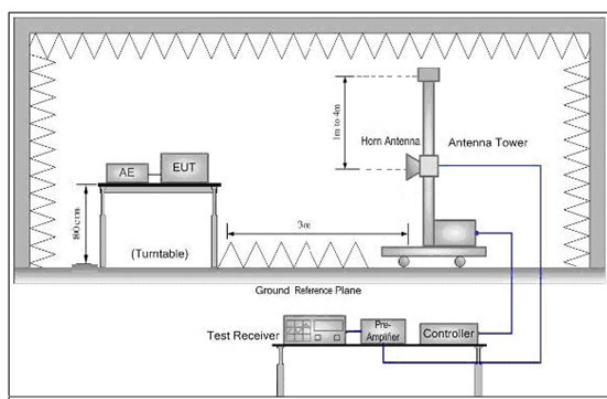


Figure 3. Above 1 GHz

Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

5.2.2.1 Field Strength Of The Fundamental Signal

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
315	1.95	14.46	26.52	87.55	77.44	95.62	-18.18	Horizontal
315	1.95	14.46	26.52	82.65	72.54	95.62	-23.08	Vertical
Average value:								
Frequency (MHz)	Peak value	PDCF	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
315	77.44	-5.12	72.32	75.62	-3.30	Horizontal		
315	72.54	-5.12	67.42	75.62	-8.20	Vertical		

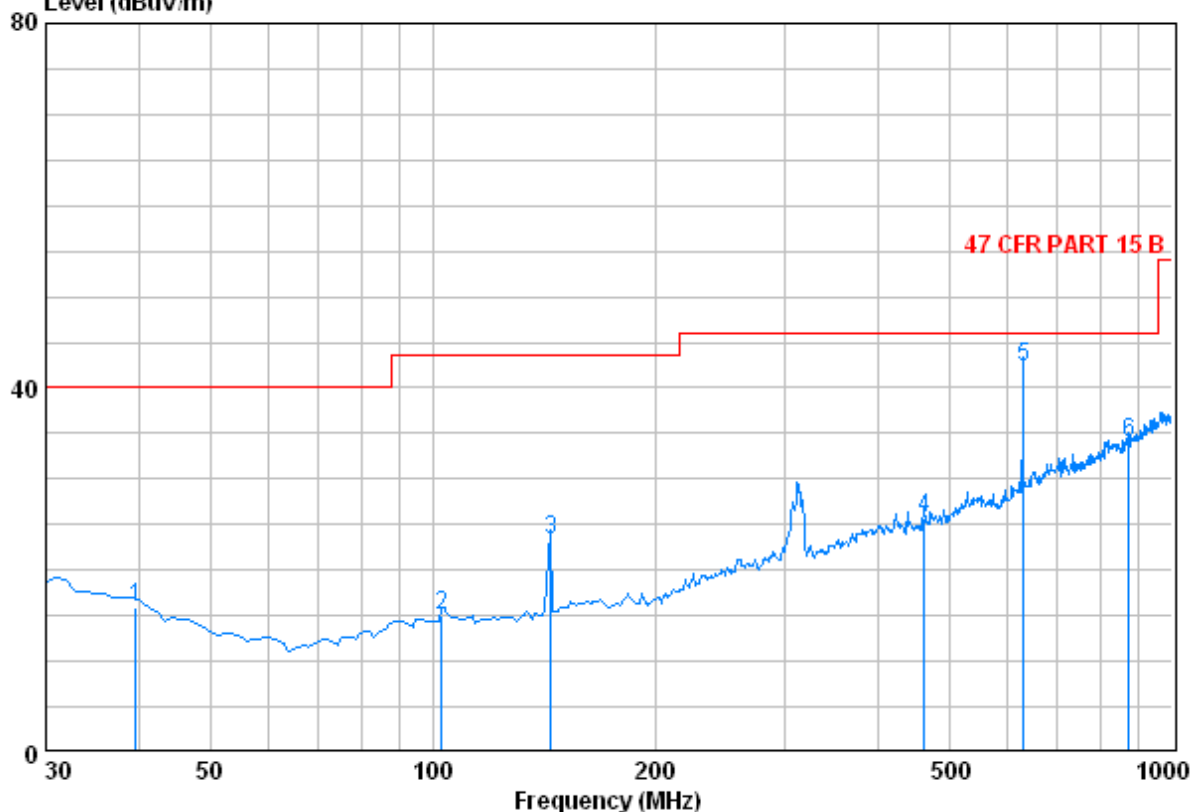
Average value:	
Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =4.92ms
	T period =8.88ms
	Average value= PK+ PDCF



5.2.2.2 Spurious Emissions

Below 1GHz

Vertical

Data: 7
Level (dBuV/m)

Condition : 47 CFR PART 15 B 3m 3142C VERTICAL

Job No. : 3694RF

test mode : Transmitting

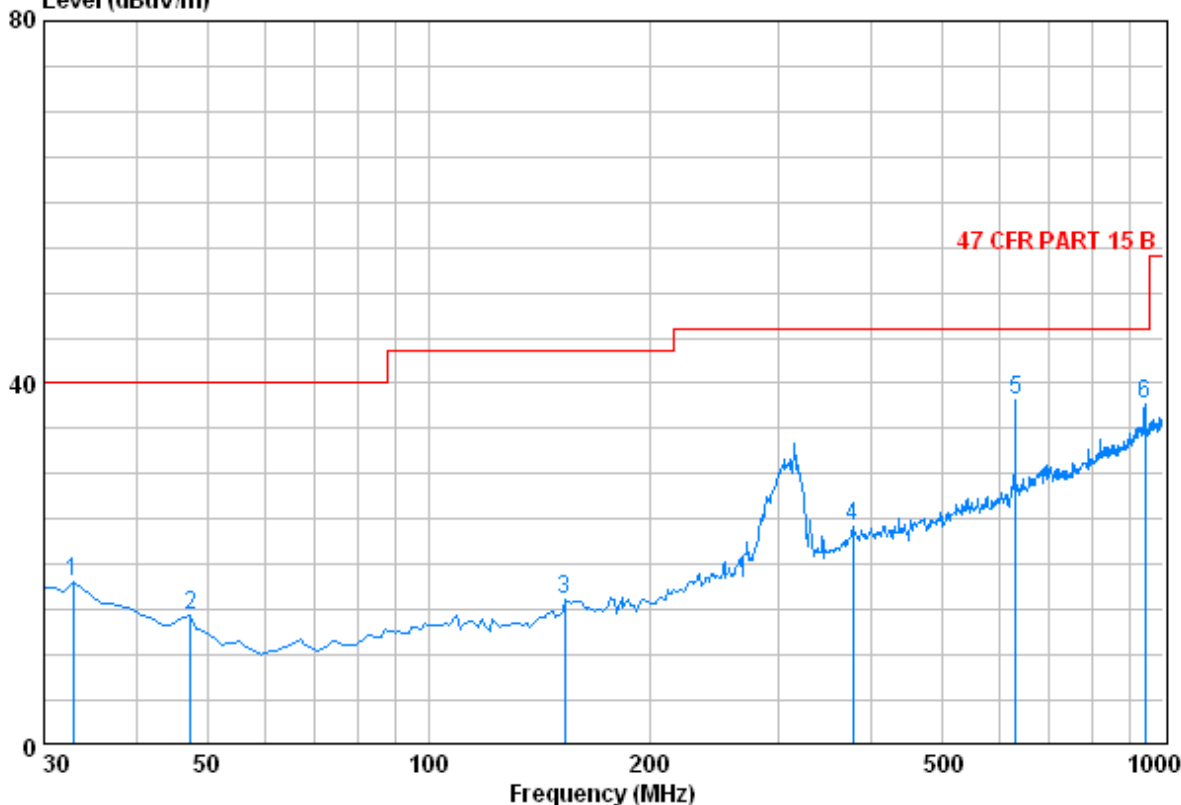
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	39.700	0.60	11.30	27.32	31.42	16.00	40.00	-24.00
2	102.750	1.21	8.97	27.18	32.00	14.99	43.50	-28.51
3	144.460	1.31	8.53	26.93	40.51	23.41	43.50	-20.09
4	462.620	2.46	17.35	27.52	33.50	25.79	46.00	-20.21
5 @	629.460	2.76	20.52	27.50	46.51	42.29	46.00	-3.71
6	874.870	3.51	23.00	26.89	34.37	33.99	46.00	-12.01



Horizontal

Data: 8

Level (dBuV/m)



Condition : 47 CFR PART 15 B 3m 3142C HORIZONTAL

Job No. : 3694RF

test mode : Transmitting

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.910	0.60	13.84	27.35	30.99	18.08	40.00	-21.92
2	47.460	0.75	9.27	27.30	31.67	14.40	40.00	-25.60
3	153.190	1.32	9.18	26.89	32.51	16.12	43.50	-27.38
4	378.230	2.14	16.03	26.99	33.08	24.27	46.00	-21.73
5	629.460	2.76	20.52	27.50	42.47	38.26	46.00	-7.74
6	943.740	3.64	23.30	26.58	37.27	37.64	46.00	-8.36

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Above 1GHz

Peak value:

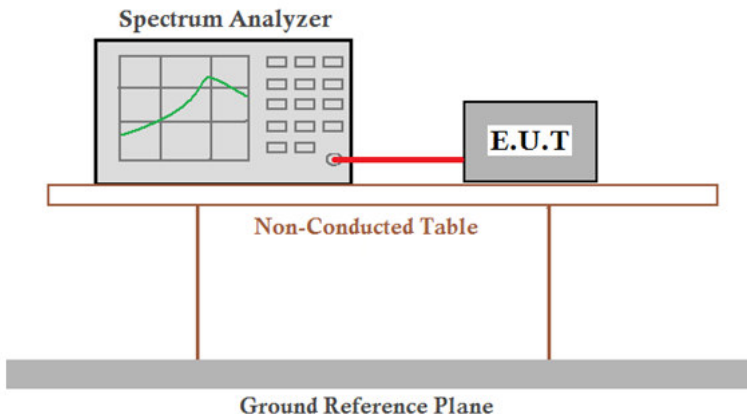
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1120.389	2.27	27.42	39.19	48.93	39.43	74	-34.57	Vertical
1573.525	2.56	28.72	39.38	52.28	44.18	74	-29.82	Vertical
2016.705	2.84	31.83	39.58	49.44	44.53	74	-29.47	Vertical
2448.673	3.01	32.61	39.89	51.55	47.28	74	-26.72	Vertical
2973.166	3.30	33.35	40.28	49.12	45.49	74	-28.51	Vertical
3472.561	3.72	33.21	40.65	51.49	47.77	74	-26.23	Vertical
1172.835	2.30	27.51	39.21	47.68	38.28	74	-35.72	Horizontal
1556.170	2.55	28.59	39.38	47.72	39.48	74	-34.52	Horizontal
1972.465	2.82	31.55	39.55	48.52	43.34	74	-30.66	Horizontal
2256.364	2.93	32.27	39.75	48.04	43.49	74	-30.51	Horizontal
2635.360	3.11	32.89	40.03	48.11	44.08	74	-29.92	Horizontal
3472.561	3.72	33.21	40.65	53.04	49.32	74	-24.68	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 4GHz 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) 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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5.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.231 (c)
Test Method:	ANSI C63.10:2009
Test Setup:	
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 Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

20dB bandwidth (MHz)	Limit (MHz)	Results
0.086	0.7875	Pass

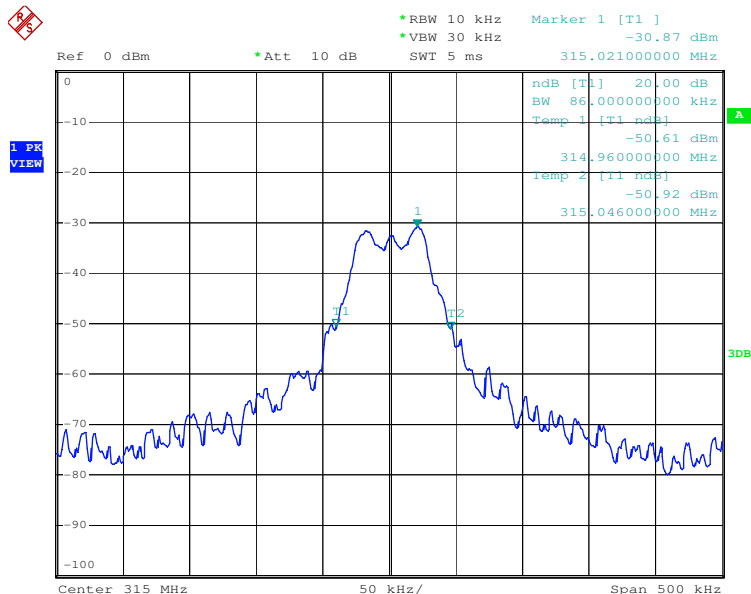


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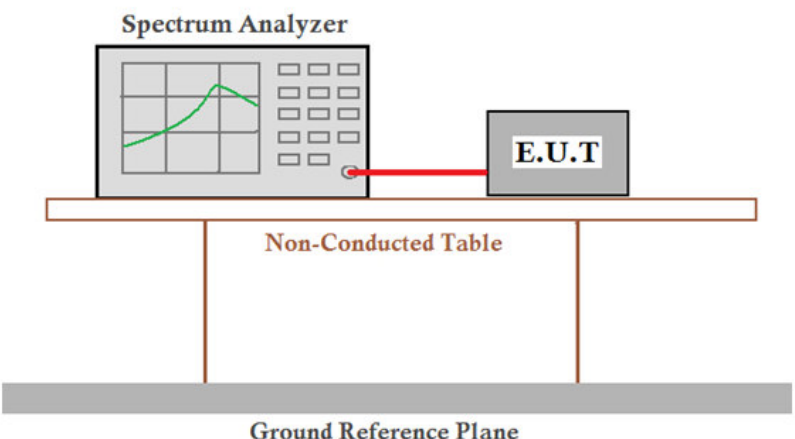
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Test plot as follows:



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5.4 Dwell Time

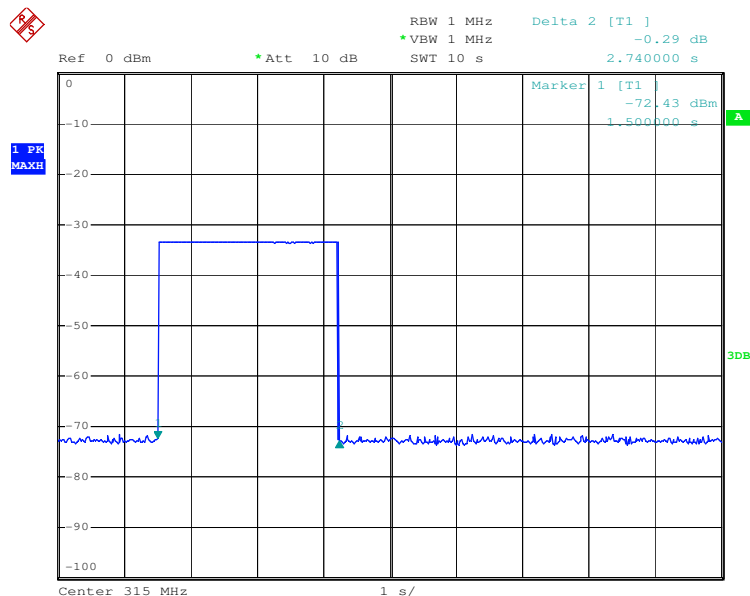
Test Requirement:	47 CFR Part 15C Section 15.231 (a) (1)
Test Method:	ANSI C63.10:2009
Test Setup:	
Limit:	Not more than 5 seconds
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

Test item	Limit (MHz)	Results
Transmitting time	≤5S	Pass



Test plot as follows:



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