

FCC REPORT

Applicant: GUANGDONG STEELMATE SECURITY CO., LTD

Address of Applicant: Renan Street, Dong fu Road, Dongfeng Town,Zhongshan, 528425 China.

Equipment Under Test (EUT)

Product Name: Transmitter

Model No.: 5154

Trade mark: Steelmate

FCC ID: Q6WBT515401

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.231:2011

Date of sample receipt: 20 Nov., 2012

Date of Test: 22 to 24 Nov., 2012

Date of report issue: 26 Nov., 2012

Test Result : PASS *

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	26 Nov., 2012	Original

Prepared By:



Date:

26 Nov., 2012

Report Clerk

Check By:



Date:

26 Nov., 2012

Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.231 (a)	Pass
Spurious emissions	15.231 (b)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Dwell time	15.231 (a)	Pass
Conducted Emission	15.107	Pass

Remarks:

Pass: The EUT complies with the essential requirements in the standard.

The EUT compliance of 15.231a (1), (2), (3),(4),(5).

5 General Information

5.1 Client Information

Applicant:	GUANGDONG STEELMATE SECURITY CO., LTD
Address of Applicant:	Renan Street, Dong fu Road, Dongfeng Town, Zhongshan, 528425 China.
Manufacturer/ Factory:	GUANGDONG STEELMATE SECURITY CO., LTD
Address of Manufacturer/ Factory:	Renan Street, Dong fu Road, Dongfeng Town, Zhongshan, 528425 China.

5.2 General Description of E.U.T.

Product Name:	Transmitter
Model No.:	5154
Trade mark:	Steelmate
Operation Frequency:	433.92MHz
Channel numbers:	1
Modulation type:	FSK
Antenna Type:	Integrated antenna
Antenna gain:	2dBi
Power supply:	DC 3.7V Lithium Battery

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation (new battery used)		
Charging mode:	Keep the EUT in Charging mode		
Pre-Test Mode:			
CCIS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	75.84	78.67	76.51
Final Test Mode:			
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo)			

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC

5.5 Test Facility

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

- **FCC —Registration No.:** 817957

China Certification & Inspection 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 817957, February 27, 2012

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.6 Test Location

All tests were performed at:

China Certification & Inspection Services Co., Ltd.
 Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China
 Tel: 0755-23118282
 Fax: 0755-23116366

5.7 Other Information Requested by the Customer

None.

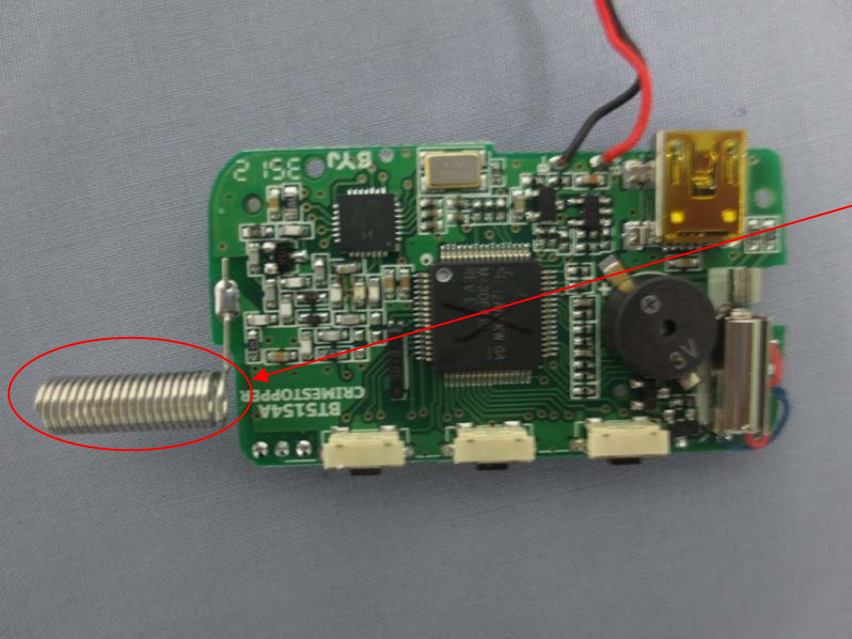
5.8 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 08 2013
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	CCIS0002	N/A	N/A
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May 29 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2012	Mar. 31 2013
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2012	Mar. 31 2013
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2012	Mar. 31 2013
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2012	Mar. 31 2013
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2012	Mar. 31 2013
11	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2012	Mar. 31 2013
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
13	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2012	Mar. 31 2013
14	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2012	Mar. 29 2013
15	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
16	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
17	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 29 2012	May. 28 2013
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2012	Aug. 11 2013
19	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May 24 2013

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal. Due date (dd-mm-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May 24 2013
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2012	Mar. 31 2013
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2012	Mar. 31 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement:

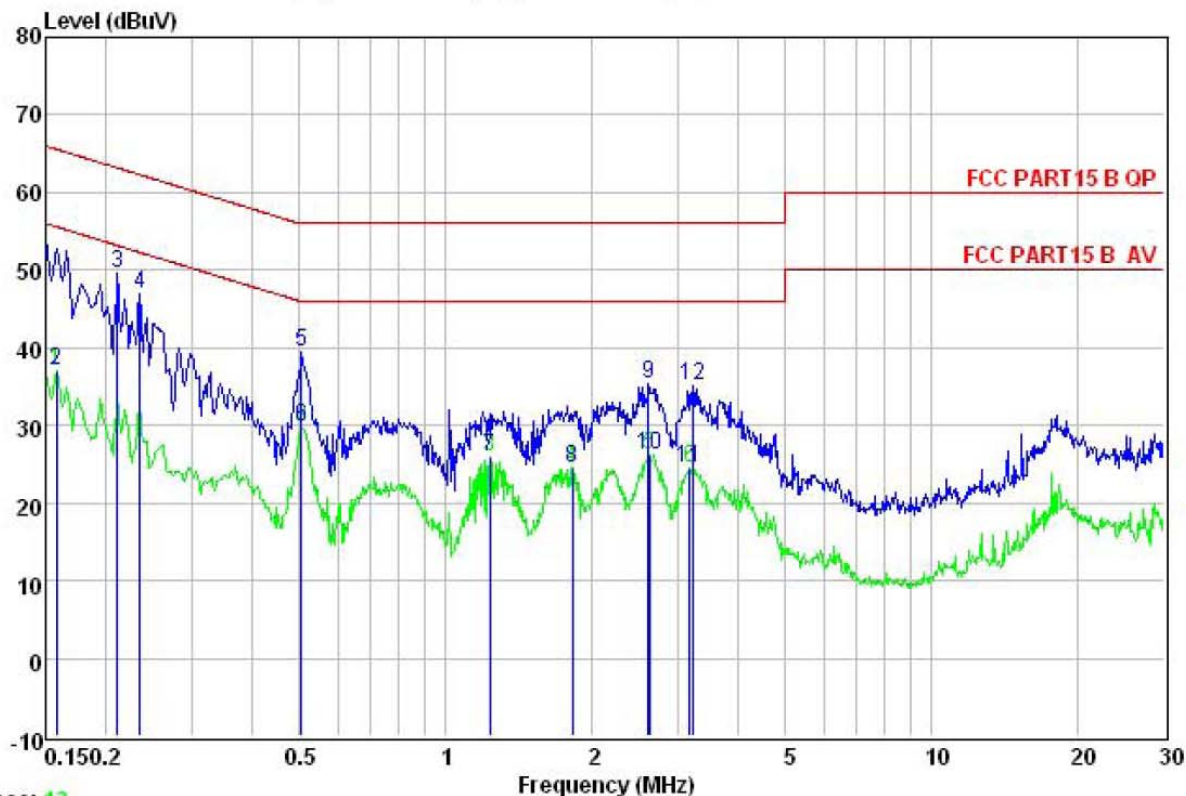
Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 requirement: <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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.</i></p>	
E.U.T Antenna:	
<p>The EUT make use of an integrated antenna, The typical gain of the antenna is 2dBi.</p>	
<div style="text-align: right; margin-right: 50px;">Antenna</div> 	

6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.107														
Test Method:	ANSI C63.4: 2003														
Test Frequency Range:	150kHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9kHz, VBW=30kHz														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test procedure	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 														
Test setup:	<p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Instruments:	Refer to section 5.7 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Passed														

Test plot as follows:

Line:

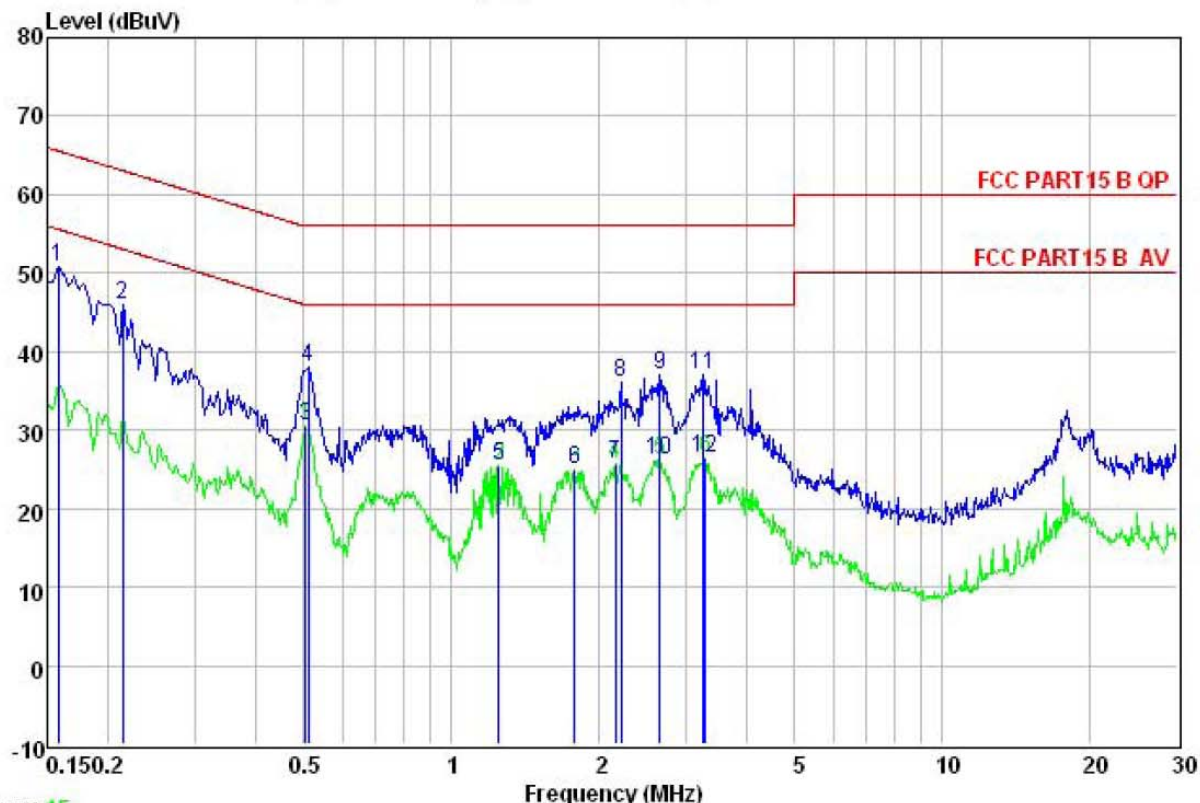


Trace: 13

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job No. : 261RF
 Model : 5154
 Test Mode : Charging mode
 Power Rating: AC 120V/60Hz
 Test engineer: Vincent

	Read	LISN	Cable	Limit	Over	
Freq	Level	Factor	Loss	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dB	
1	0.150	42.89	10.25	0.79	53.93	66.00 -12.07 QP
2	0.158	25.98	10.24	0.79	37.01	55.56 -18.55 Average
3	0.211	38.51	10.22	0.76	49.49	63.18 -13.69 QP
4	0.234	36.08	10.23	0.75	47.06	62.30 -15.24 QP
5	0.505	28.36	10.27	0.76	39.39	56.00 -16.61 QP
6	0.505	18.80	10.27	0.76	29.83	46.00 -16.17 Average
7	1.229	15.13	10.23	0.70	26.06	46.00 -19.94 Average
8	1.819	14.28	10.27	0.07	24.62	46.00 -21.38 Average
9	2.608	24.11	10.28	0.94	35.33	56.00 -20.67 QP
10	2.622	14.97	10.28	0.94	26.19	46.00 -19.81 Average
11	3.173	13.27	10.29	0.91	24.47	46.00 -21.53 Average
12	3.224	23.88	10.29	0.90	35.07	56.00 -20.93 QP

Neutral:



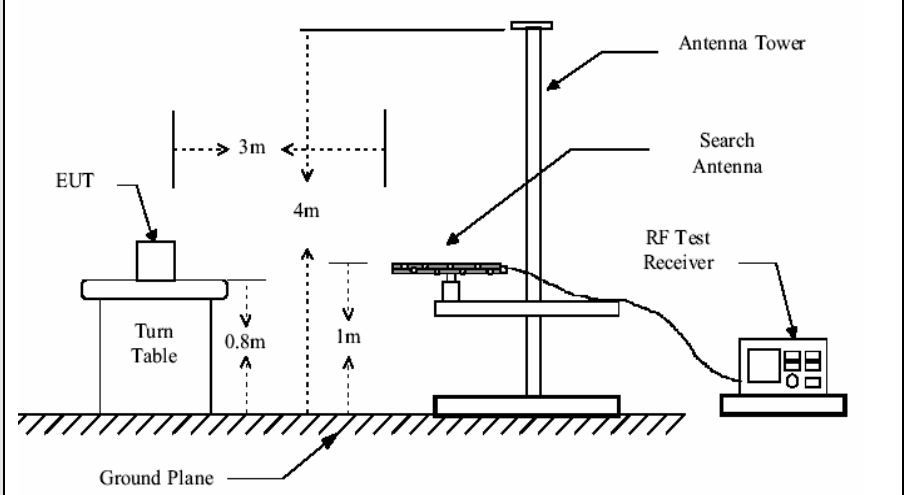
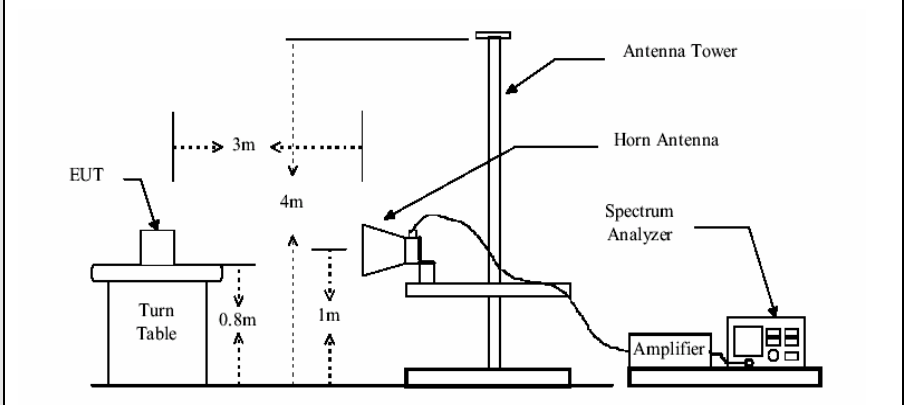
Trace: 15

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job No. : 261RF
 Model : 5154
 Test Mode : Charging mode
 Power Rating: AC 120V/60Hz
 Test engineer: Vincent

	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	39.71	10.26	0.79	50.76	65.56	-14.80	QP
2	0.214	35.04	10.23	0.76	46.03	63.05	-17.02	QP
3	0.505	19.54	10.28	0.76	30.58	46.00	-15.42	Average
4	0.510	26.89	10.27	0.76	37.92	56.00	-18.08	QP
5	1.249	14.46	10.22	0.68	25.36	46.00	-20.64	Average
6	1.781	14.67	10.26	0.08	25.01	46.00	-20.99	Average
7	2.155	14.39	10.27	0.96	25.62	46.00	-20.38	Average
8	2.213	24.82	10.27	0.95	36.04	56.00	-19.96	QP
9	2.650	25.77	10.27	0.94	36.98	56.00	-19.02	QP
10	2.650	15.05	10.27	0.94	26.26	46.00	-19.74	Average
11	3.241	25.98	10.28	0.90	37.16	56.00	-18.84	QP
12	3.293	15.20	10.28	0.90	26.38	46.00	-19.62	Average

6.3 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209			
Test Method:	ANSI C63.4:2003			
Test Frequency Range:	30MHz to 5000MHz			
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Receiver setup:	Frequency	Detector	RBW	VBW
	30MHz-1GHz	Quasi-peak	120KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark
	433.92 MHz	80.8		Average Value
		100.8		Peak Value
Limit: (Spurious Emissions)	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 1GHz	54.0		Average Value
		74.0		Peak Value
Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits a higher field strength.				
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 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>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 5.7 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>

Measurement Data

6.3.1 Field Strength Of The Fundamental Signal

Peak value:								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.89	90.31	15.53	3.16	30.33	78.67	100.80	-22.13	Horizontal
433.89	83.50	15.53	3.16	30.33	71.86	100.80	-28.94	Vertical

Remark: The peak value is less than average limit, so the average value no record.

6.3.2 Spurious Emissions

Transmitting mode

Below 1GHz (30MHz-1000MHz) :									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	polarization
39.58	33.02	13.49	1.21	27.21	20.51	40.00	-19.49	QP	Horizontal
47.66	32.03	13.39	1.27	28.06	18.63	40.00	-21.37	QP	Horizontal
94.76	33.07	12.84	2.01	30.08	17.84	43.50	-25.66	QP	Horizontal
180.65	32.63	9.76	2.73	26.77	18.35	43.50	-25.15	QP	Horizontal
374.62	33.95	14.54	3.09	29.79	21.79	46.00	-24.21	QP	Horizontal
867.78	65.39	20.78	4.02	30.22	59.97	60.80	-0.83	QP	Horizontal
40.99	34.08	13.57	1.22	27.36	21.51	40.00	-18.49	QP	Vertical
51.66	34.38	13.18	1.27	28.46	20.37	40.00	-19.63	QP	Vertical
104.17	37.42	12.78	1.99	30.00	22.19	43.50	-21.31	QP	Vertical
180.02	35.59	9.68	2.73	26.51	21.49	43.50	-22.01	QP	Vertical
260.14	37.86	12.09	2.84	29.56	23.23	46.00	-22.77	QP	Vertical
867.93	55.30	20.78	4.02	30.22	49.88	60.80	-10.92	QP	Vertical

Above 1GHz:

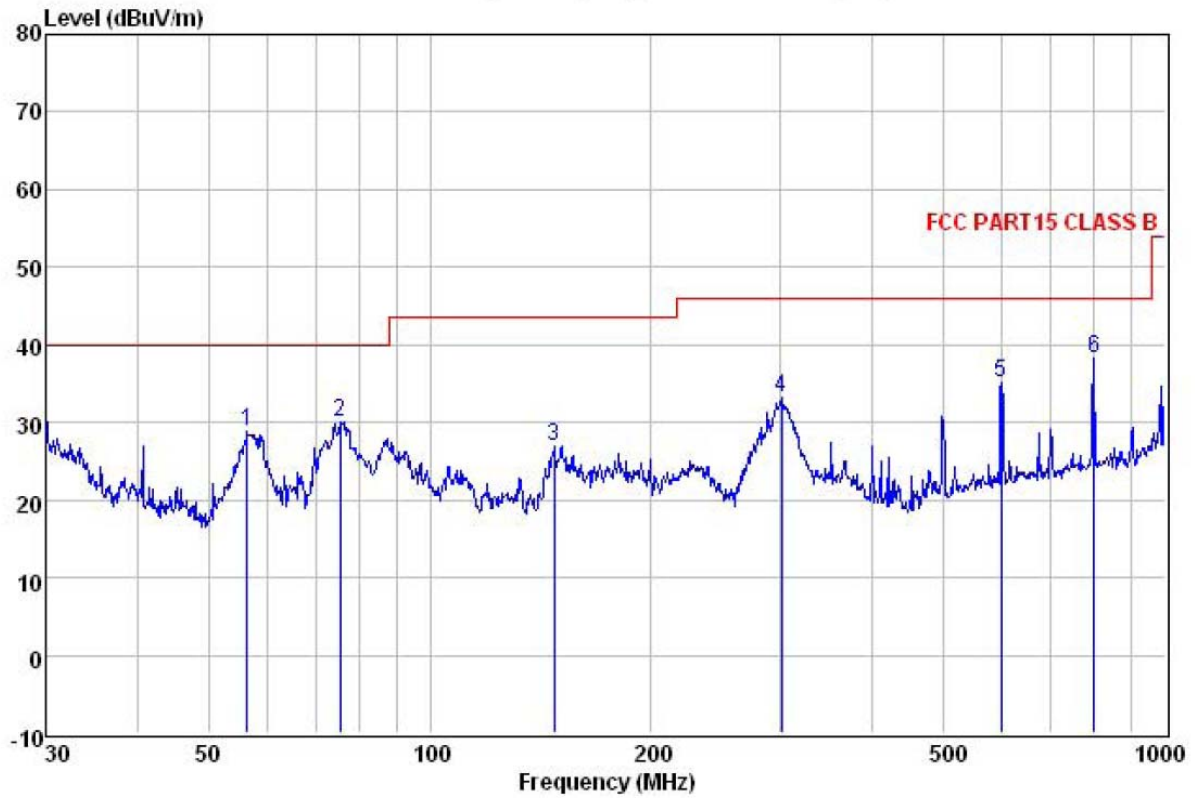
Peak value:								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1301.33	49.31	25.52	2.75	37.12	40.46	74.00	-33.54	Horizontal
1736.48	59.66	25.04	3.25	37.28	50.67	74.00	-23.33	Horizontal
2603.35	48.27	27.80	3.97	37.60	42.44	74.00	-31.56	Horizontal
3037.06	53.80	28.59	4.40	37.77	49.02	74.00	-24.98	Horizontal
3473.88	51.61	28.76	4.84	37.92	47.29	74.00	-26.71	Horizontal
4345.94	37.96	30.47	5.56	38.20	35.79	74.00	-38.21	Horizontal
1301.33	50.90	25.52	2.75	37.12	42.05	74.00	-31.95	Vertical
1736.48	61.97	25.04	3.25	37.28	52.98	74.00	-21.02	Vertical
2603.35	49.29	27.80	3.97	37.60	43.46	74.00	-30.54	Vertical
3037.06	58.75	28.59	4.40	37.77	53.97	74.00	-20.03	Vertical
3473.88	49.38	28.76	4.84	37.92	45.06	74.00	-28.94	Vertical
4345.94	42.61	30.47	5.56	38.20	40.44	74.00	-33.56	Vertical

Remark:

The Peak value's all Level value is lower than the Average value Limit Line. So not show average value.

Charging mode

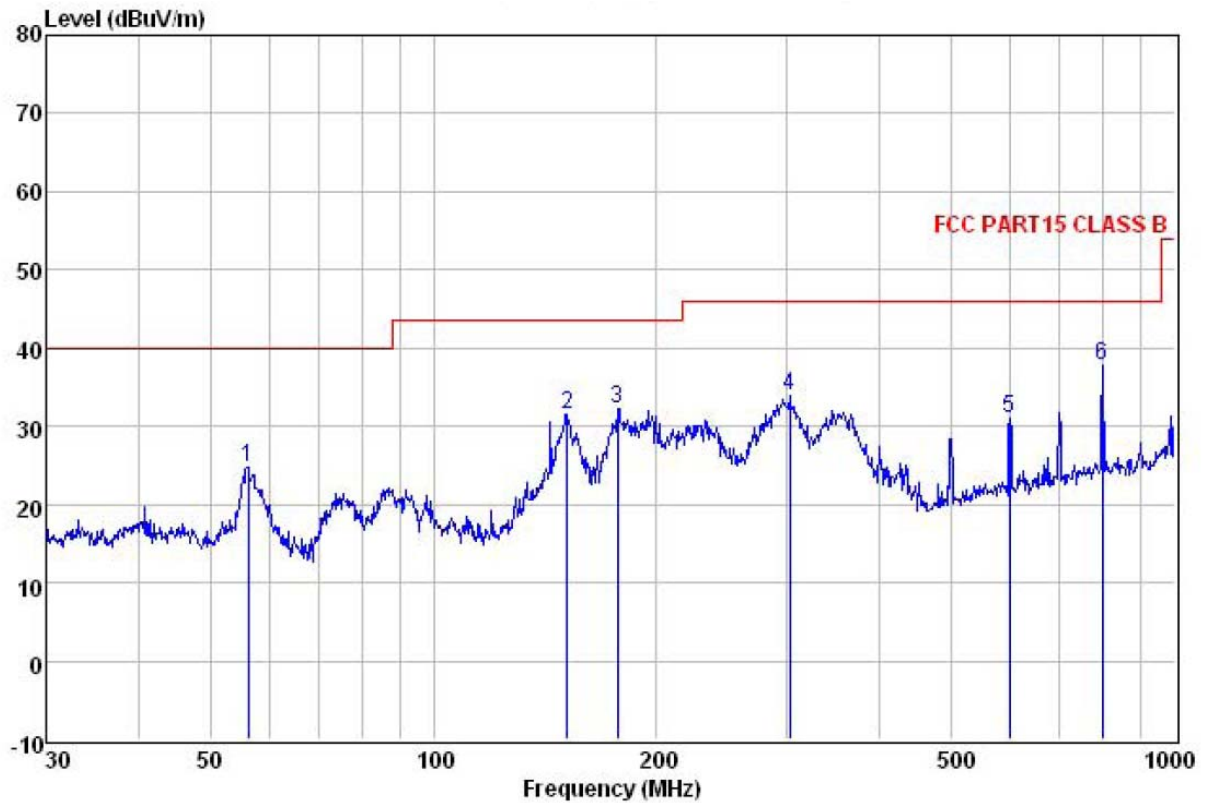
Vertical:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
 Job No. : 261RF
 Model : 5154
 Test mode : Charging mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55% Atmos:101Kpa
 Test Engineer: Vincent

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	56.395	43.31	12.95	1.36	28.89	28.73	40.00 -11.27 QP
2	75.446	50.60	7.91	1.63	30.13	30.01	40.00 -9.99 QP
3	147.404	45.55	8.24	2.49	29.26	27.02	43.50 -16.48 QP
4	300.367	46.66	13.06	2.94	29.44	33.22	46.00 -12.78 QP
5	599.321	43.30	18.45	3.94	30.55	35.14	46.00 -10.86 QP
6	801.786	44.37	20.06	4.34	30.40	38.37	46.00 -7.63 QP

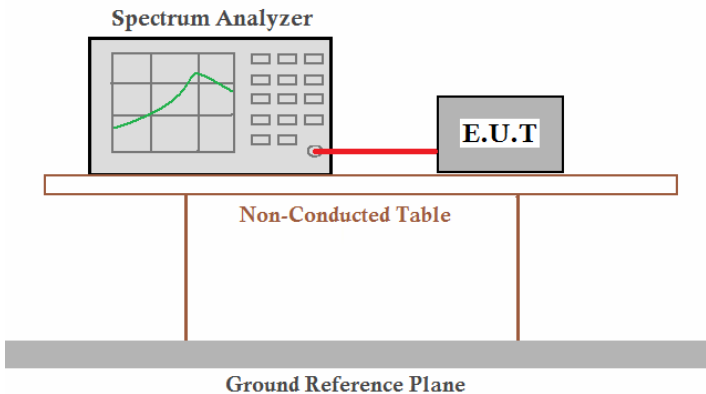
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
 Job No. : 261RF
 Model : 5154
 Test mode : Charging mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55% Atmos:101Kpa
 Test Engineer: Vincent

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	56.197	39.39	12.95	1.36	28.87	24.83	40.00	-15.17	QP
2	151.597	49.91	8.32	2.53	29.36	31.40	43.50	-12.10	QP
3	176.888	47.31	9.49	2.71	27.27	32.24	43.50	-11.26	QP
4	302.481	47.41	13.08	2.95	29.44	34.00	46.00	-12.00	QP
5	599.321	39.23	18.45	3.94	30.55	31.07	46.00	-14.93	QP
6	798.980	43.85	20.06	4.35	30.41	37.85	46.00	-8.15	QP

6.4 20dB Bandwidth

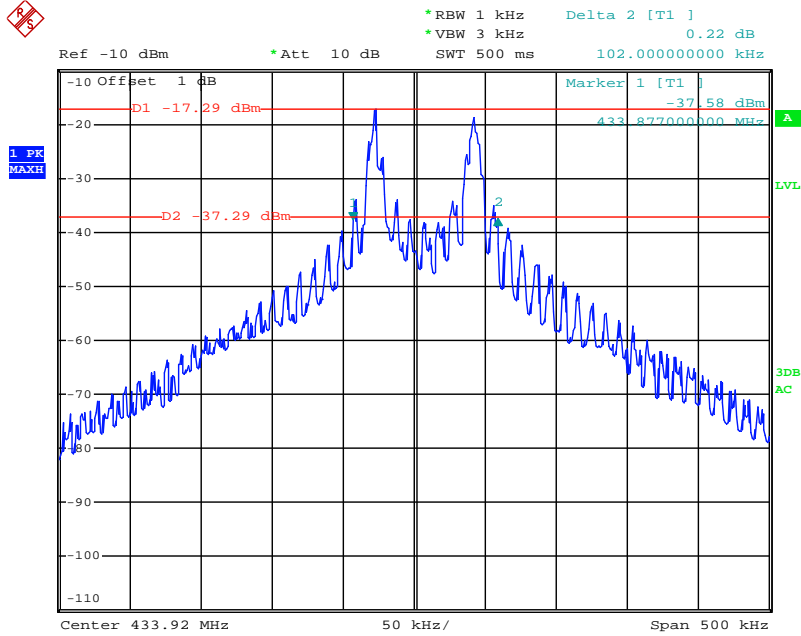
Test Requirement:	FCC Part15 C Section 15.231 (c)
Test Method:	ANSI C63.4:2003
Receiver setup:	RBW=1kHz, VBW=3kHz, detector: Peak
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 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 Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test mode:	Refer to section 5.3 for details
Test Instruments:	Refer to section 5.7 for details
Test results:	Passed

Measurement Data

20dB bandwidth (MHz)	Limit (MHz)	Results
0.102	1.0848	Passed

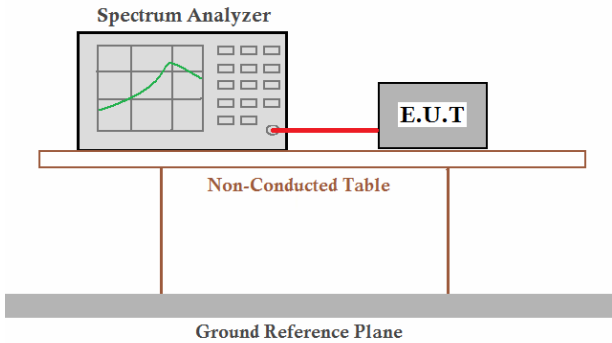
Note: Limit= Fundamental frequency×0.25%=433.92×0.25%=1.0848MHz

Test plot as follows:



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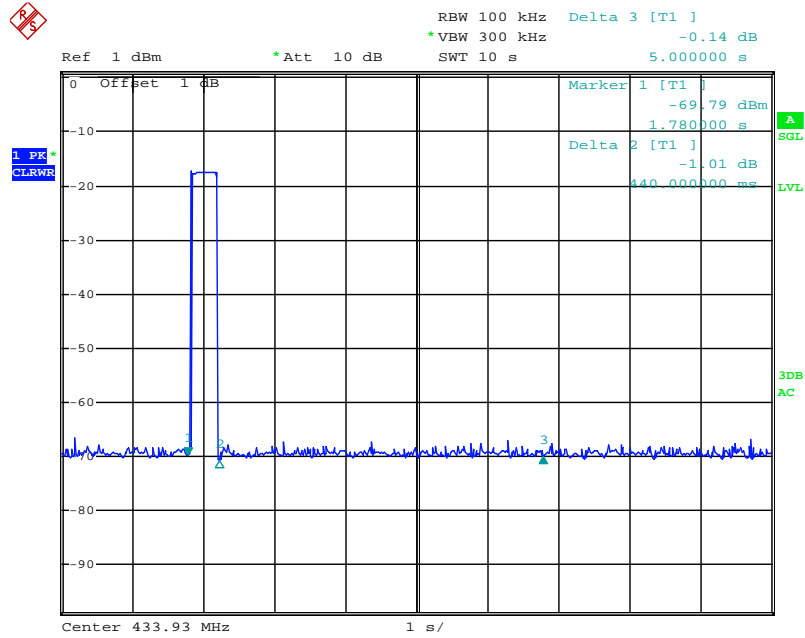
6.5 Dwell Time:

Test Requirement:	FCC Part15 C Section 15.231 (a)
Test Method:	ANSI C63.4:2003
Receiver setup:	RBW=100kHz, VBW=300kHz, span=0Hz, detector: Peak
Limit:	Not more than 5 seconds
Test mode:	Transmitting mode
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Single scan the transmit, and read the transmission time.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test results:	Passed

Measurement Data

Dwell time (second)	Limit (second)	Result
0.44	<5.0	Pass

Test plot as follows:



Date: 23.NOV.2012 08:41:13