



Shenzhen EBO Technology Co., Ltd.

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Report No.: EBO1412093-E411
Page 1 of 17

TEST REPORT

Applicant: Shenzhen Dinsafe Intelligence Technology Co., Ltd

Address of Applicant: Room 721, Zone A Of Hua Mei Ju, Xin Hu Rd., Baoan Dist.,
Shenzhen, China

Equipment Under Test (EUT)

Product Name: MATIGARD SMART ALARM SYSTEM

Brand Name: MatiGard

Model No.: G-1, G2-1, G3-1, Gfence, Mini-1, AirX, I, X-1, X2-1

Test Model No.: AirX

FCC ID: 2ADXQMTGAIR

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2013

Date of sample receipt: February 27, 2015

Date of Test: February 27, 2015 To March 05, 2015

Date of report issue: March 05, 2015

Test Result : PASS *

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

Authorized Signature:

Kevin Yu
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 EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. 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 EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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2 Version

Version No.	Date	Description
00	March 05, 2015	Original

Prepared By:

Date:

March 05, 2015

Project Engineer

Check By:

Date:

March 05, 2015

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	PASS
Radiated Emissions	Part15.109	PASS

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

N/A: not applicable.



5 General Information

5.1 Client Information

Applicant:	SHENZHEN DINSAFE INTELLIGENCE TECHNOLOGY CO., LTD
Address of Applicant:	Room 721, Zone A Of Hua Mei Ju, Xin Hu Rd., Baoan Dist., Shenzhen, China
Manufacturer:	SHENZHEN DINSAFE INTELLIGENCE TECHNOLOGY CO., LTD
Address of Manufacturer:	Room 721, Zone A Of Hua Mei Ju, Xin Hu Rd., Baoan Dist., Shenzhen, China
Factory:	SHENZHEN DINSAFE INTELLIGENCE TECHNOLOGY CO., LTD
Address of Factory:	Room 721, Zone A Of Hua Mei Ju, Xin Hu Rd., Baoan Dist., Shenzhen, China

5.2 General Description of EUT

Product Name:	MATIGARD SMART ALARM SYSTEM
Brand Name:	MatiGard
Model No.:	G-1, G2-1, G3-1, Gfence, Mini-1, AirX, I, X-1, X2-1
Test Model No.:	AirX
Power supply:	RX: AC Adapter: Input:100-240V~,50/60Hz,0.35A, Output:5V, 2A

5.3 Test mode

Receiving mode	Keep the EUT in Receiving mode.
----------------	---------------------------------



5.4 Test Facility

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

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 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.

- **FCC —Registration No.: 600491**

Global United Technology 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 files. Registration 600491, June 28, 2013.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
SHENZHEN DINSAFE INTELLIGENCE TECHNOLOGY CO., LTD	Wireless Thermometer	G	N/A	FCC ID: 2ADXQMTGACS

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

**6 Test Instruments list**

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	Mar. 29 2014	Mar. 28 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	July 01 2014	June 30 2015
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	July 01 2014	June 30 2015
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	June 27 2014	June 26 2015
6	RF Amplifier	HP	8347A	GTS204	July 01 2014	June 30 2015
7	Preamplifier	HP	8349B	GTS206	July 01 2014	June 30 2015
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015
11	Thermo meter	N/A	N/A	GTS256	Mar. 29 2014	Mar. 28 2015

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

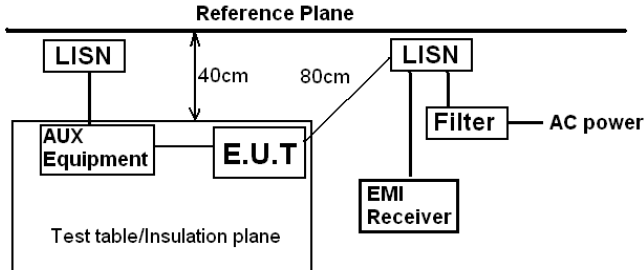
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015

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7 Test Results and Measurement Data

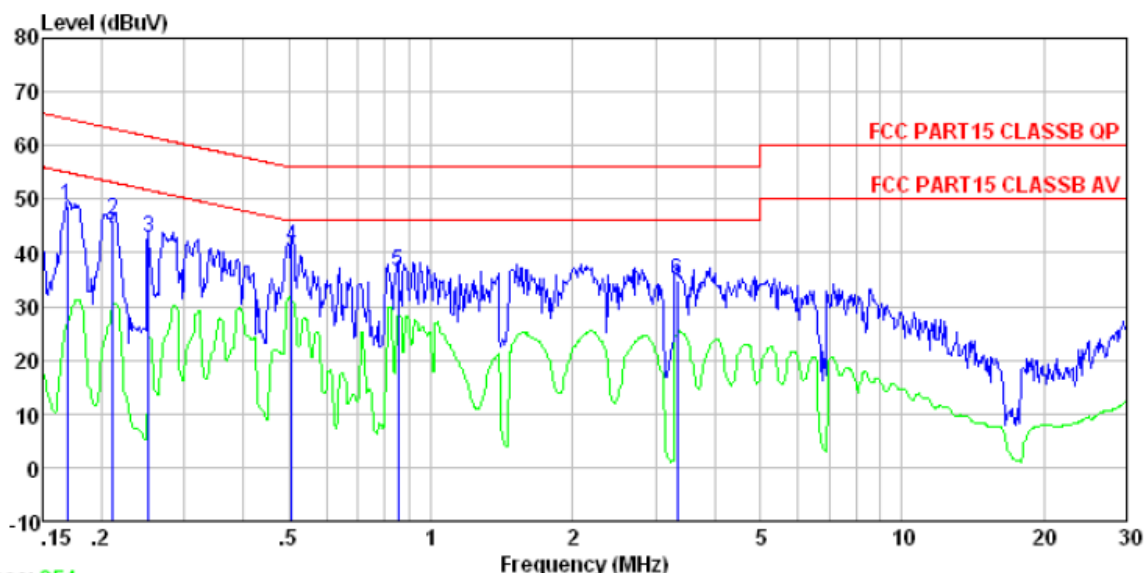
7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107		
Test Method:	ANSI C63.4:2009		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto		
Limit:	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
* Decreases with the logarithm of the frequency.			
Test setup:	 <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test procedure:	<ol style="list-style-type: none">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).3. 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: 2009 on conducted measurement.		
Test Instruments:	Refer to section 6 for details		
Test mode:	Refer to section 5.3 for details.		
Test results:	Pass		



Measurement Data

Test mode:	Receiving mode		LINE
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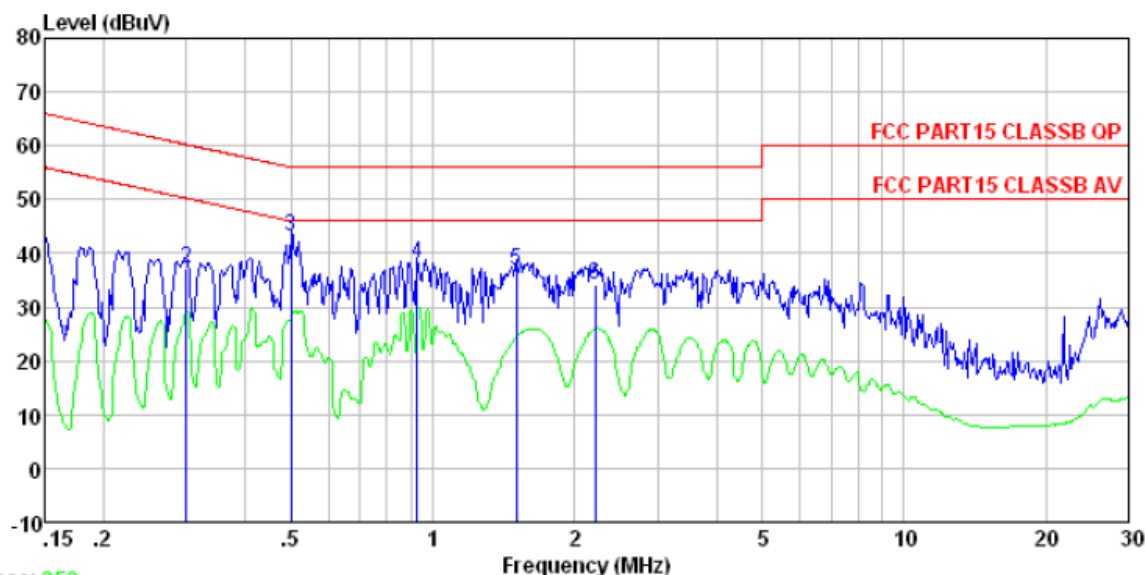


Site : Shielded room
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

	Read	LISN	Cable		Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.169	48.35	0.15	0.12	48.62	64.99	-16.37 QP
2	0.212	46.03	0.13	0.13	46.29	63.14	-16.85 QP
3	0.252	42.67	0.12	0.11	42.90	61.69	-18.79 QP
4	0.507	41.00	0.12	0.11	41.23	56.00	-14.77 QP
5	0.853	36.11	0.14	0.13	36.38	56.00	-19.62 QP
6	3.328	34.43	0.18	0.15	34.76	56.00	-21.24 QP



Test mode:	Receiving mode		NEUTRAL
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Trace: 252

Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

	Read	LISN	Cable	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB
1	0.150	41.77	0.07	0.12	41.96	66.00 -24.04 QP
2	0.300	37.05	0.06	0.10	37.21	60.24 -23.03 QP
3	0.499	43.00	0.06	0.11	43.17	56.01 -12.84 QP
4	0.928	38.00	0.07	0.13	38.20	56.00 -17.80 QP
5	1.503	36.51	0.09	0.14	36.74	56.00 -19.26 QP
6	2.213	33.88	0.09	0.15	34.12	56.00 -21.88 QP

Notes:

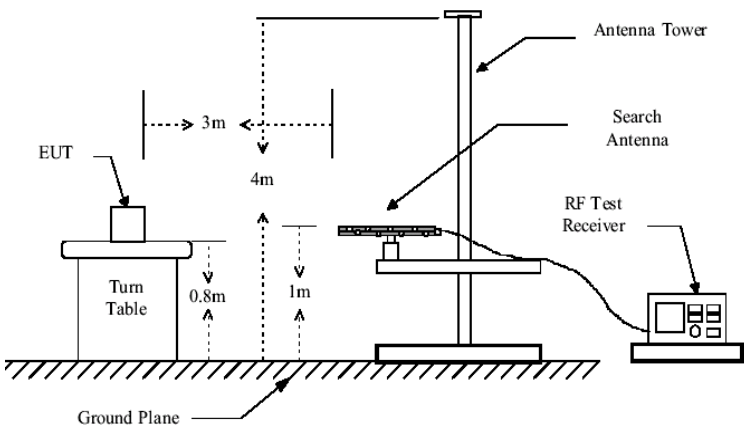
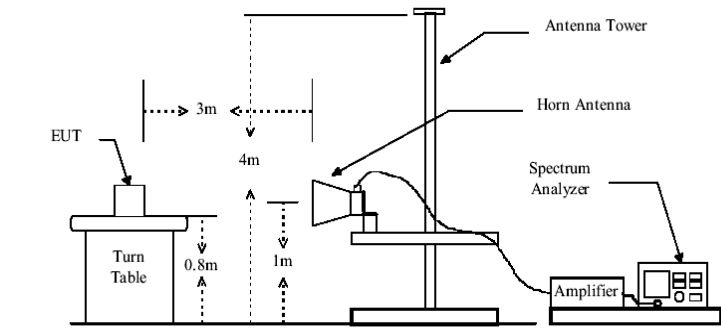
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109																								
Test Method:	ANSI C63.4:2009																								
Test Frequency Range:	30MHz to 2GHz																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																					
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Above 1GHz	Peak	1MHz	3MHz	Peak Value																					
	Peak	1MHz	10Hz	Average Value																					
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak Value</td></tr><tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak Value</td></tr><tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak Value</td></tr><tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr><tr><td>74.00</td><td>Peak Value</td></tr></table>					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.00	Quasi-peak Value	88MHz-216MHz	43.50	Quasi-peak Value	216MHz-960MHz	46.00	Quasi-peak Value	960MHz-1GHz	54.00	Quasi-peak Value	Above 1GHz	54.00	Average Value	74.00	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																							
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960MHz-1GHz	54.00	Quasi-peak Value																							
Above 1GHz	54.00	Average Value																							
	74.00	Peak Value																							
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. 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.</div> <div>4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. 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.</div>																								

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Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Measurement Record:	Uncertainty: ± 4.5dB
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

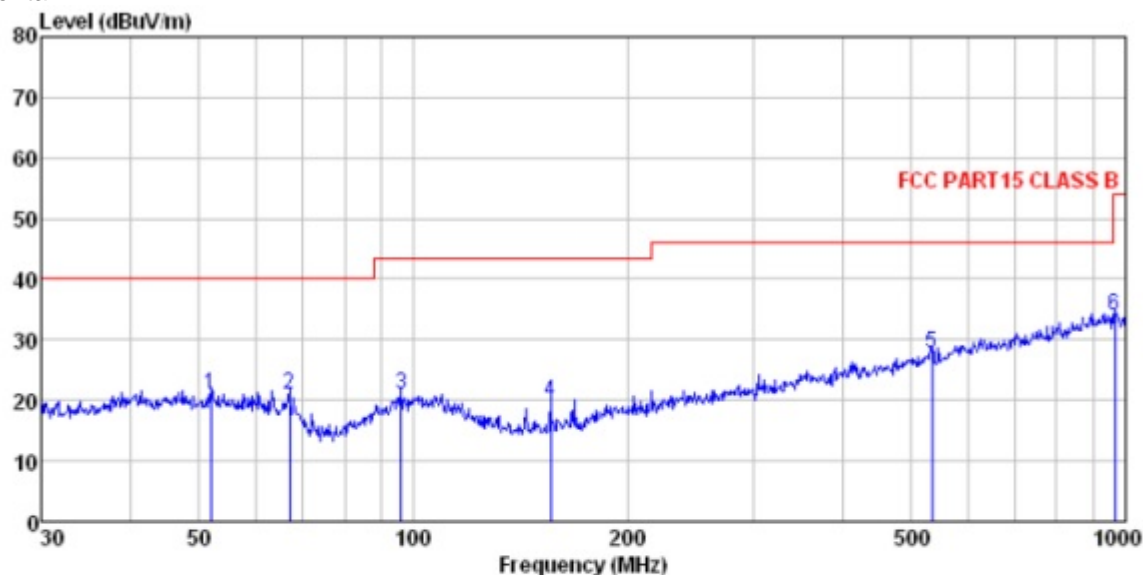
$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$



Measurement Data

Below 1GHz

Horizontal:



Site : 3m chamber

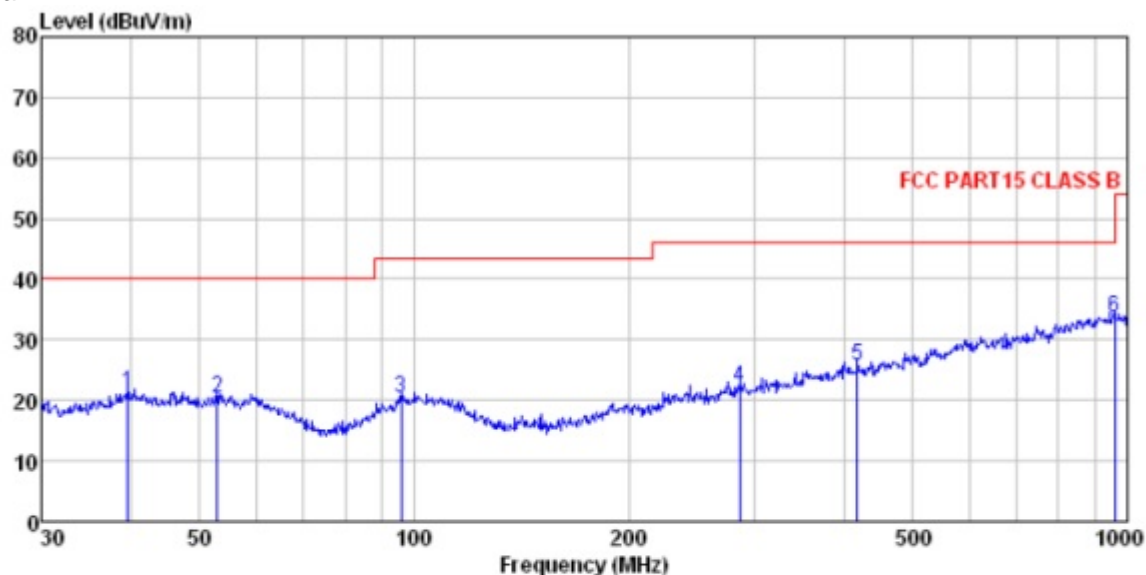
Condition : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL

Freq	Level	Antenna	Cable	Preamp	Limit	Over	Remark
MHz	dBuV	Factor	Loss	Factor	Line	Limit	
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	51.843	37.07	15.16	0.79	31.96	21.06	40.00 -18.94 QP
2	66.967	40.17	11.89	0.92	31.90	21.08	40.00 -18.92 QP
3	96.099	36.65	14.90	1.16	31.75	20.96	43.50 -22.54 QP
4	155.910	39.70	10.51	1.60	32.00	19.81	43.50 -23.69 QP
5	533.832	36.52	19.26	3.46	31.38	27.86	46.00 -18.14 QP
6	965.542	36.42	23.52	5.09	31.22	33.81	54.00 -20.19 QP

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Vertical:

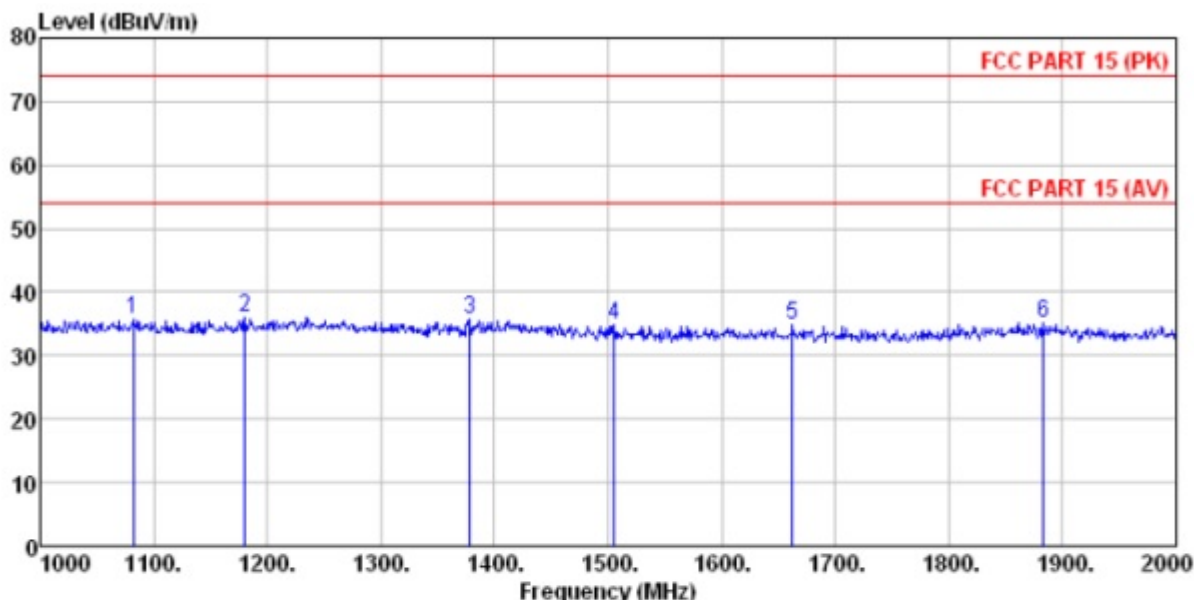


Site	: 3m chamber							
Condition	: FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL							
	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.715	37.02	15.49	0.66	32.06	21.11	40.00	-18.89 QP
2	52.945	36.50	15.11	0.80	31.95	20.46	40.00	-19.54 QP
3	95.762	36.17	14.90	1.16	31.74	20.49	43.50	-23.01 QP
4	285.978	37.30	14.78	2.29	32.18	22.19	46.00	-23.81 QP
5	417.641	37.17	17.43	2.93	31.83	25.70	46.00	-20.30 QP
6	958.794	36.44	23.49	5.08	31.22	33.79	46.00	-12.21 QP



Above 1GHz

Horizontal:



Site : 3m chamber

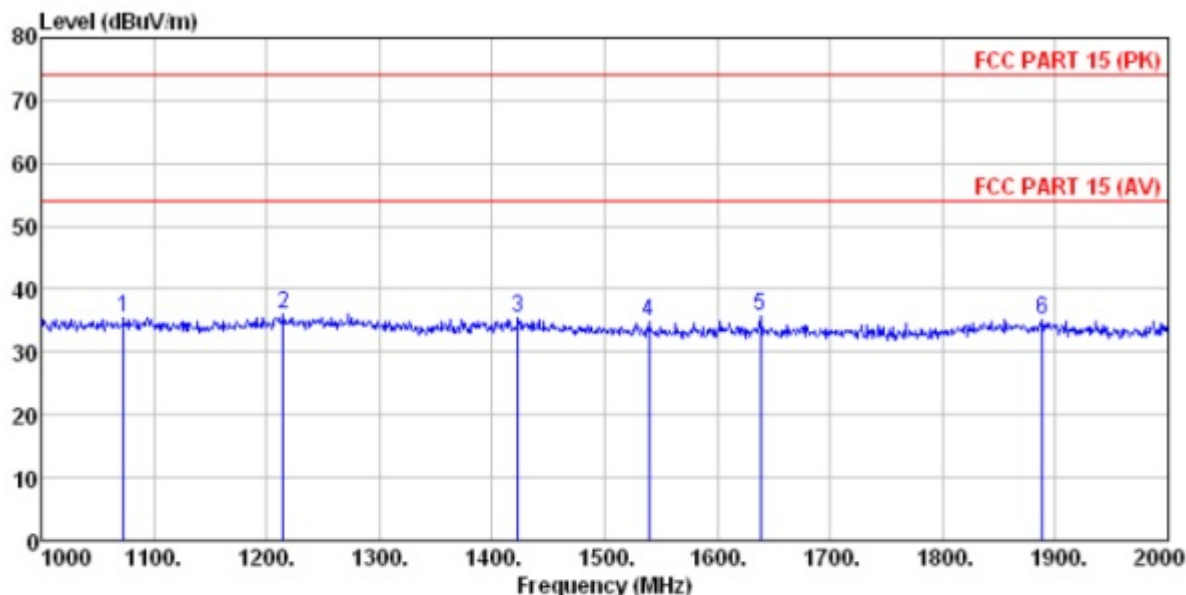
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL

	Freq	Level	Antenna	Cable	Preamp	Limit	Over	
	MHz	dBuV	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1082.000	39.52	24.71	4.37	32.89	35.71	74.00	-38.29 Peak
2	1180.000	39.39	25.25	4.45	33.07	36.02	74.00	-37.98 Peak
3	1378.000	38.75	25.64	4.60	33.39	35.60	74.00	-38.40 Peak
4	1505.000	38.54	25.21	4.68	33.62	34.81	74.00	-39.19 Peak
5	1662.000	39.03	24.88	4.78	33.88	34.81	74.00	-39.19 Peak
6	1883.000	38.71	25.67	4.90	34.26	35.02	74.00	-38.98 Peak

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Vertical:



Site	: 3m chamber								
Condition	: FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL								
	ReadAntenna	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	1073.000	39.40	24.68	4.36	32.87	35.57	74.00	-38.43	Peak
2	1215.000	39.14	25.42	4.48	33.13	35.91	74.00	-38.09	Peak
3	1423.000	38.80	25.47	4.63	33.47	35.43	74.00	-38.57	Peak
4	1539.000	38.72	25.13	4.71	33.68	34.88	74.00	-39.12	Peak
5	1638.000	39.85	24.89	4.77	33.85	35.66	74.00	-38.34	Peak
6	1888.000	38.83	25.70	4.90	34.26	35.17	74.00	-38.83	Peak

Remark: If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



8 Test Setup Photo

Refer to test setup photos.

9 EUT Constructional Details

Refer to EUT external and internal photos.

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