FCC Report

Applicant:	Simbans Limited
Address of Applicant:	806, 8th Floor, Tai Tak Industrial Building 2-12 Kwai Fat Road, Kwai Chung, Hong Kong

Equipment Under Test (EUT)

Product Name:	10.1 Inch IPS tablet
Model No.:	PRESTO
Trade Mark:	Simbans
FCC ID:	2AHY3-PRESTO
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B:2014
Date of sample receipt:	April 11, 2016
Date of Test:	April 11-14, 2016
Date of report issue:	April 14, 2016
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo

Laboratory Manager

2 Version

Version No.	Date	Description
00	*April 14, 2016*	*Original*

Prepared By: Sam.Gao ***Date:*** *April 14, 2016*

Project Engineer

Check By: hank.yan ***Date:*** *April 14, 2016*

Reviewer

3 Contents

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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.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. Remark: Test according to ANSI C63.4:2014			

5 General Information

5.1 Client Information

Applicant:	Simbans Limited
Address of Applicant:	806, 8th Floor, Tai Tak Industrial Building 2-12 Kwai Fat Road, Kwai Chung, Hong Kong
Manufacturer/ Factory:	Shenzhen Iproda Technology CO.,LTD.
Address of Manufacture/ Factory:	4F-5F ,C Building, Gongming Tang Wei Village Wanfeng Industrial Zone, Guangming New District , Shenzhen

5.2 General Description of EUT

Product Name:	10.1 Inch IPS tablet
Model No.:	PRESTO
Power Supply:	Adapter : Model No.: KA23-0502000DEU Input: AC 100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A or DC 3.7V Li-ion polymer Battery

5.3 Test mode

Test mode:	
PC mode	Keep the EUT in PC mode

5.4 Test Facility

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

● **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly 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.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480

Fax: 0755-27798960

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
Apple	PC	A1278	C1MN99ERDTY3	Doc
DELL	KEYBOARD	SK-8115	N/A	Doc
DELL	MOUSE	N/A	N/A	Doc

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna.
Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

6 Test Instruments list

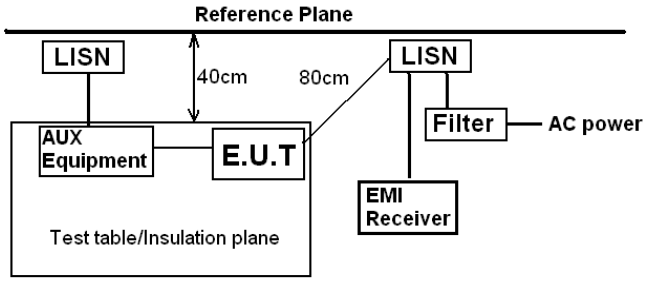
Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	July. 03 2015	July. 02 2016
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	July. 06 2015	July. 05 2016
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	July. 06 2015	July. 05 2016
6	RF Amplifier	HP	8347A	GTS204	July. 03 2015	July. 02 2016
7	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	July. 03 2015	July. 02 2016
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	July. 05 2015	July. 04 2016
10	Coaxial Cable	GTS	N/A	GTS211	July. 05 2015	July. 04 2016
11	Thermo meter	N/A	N/A	GTS256	July. 06 2015	July. 05 2016

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	7.3(L)x3.1(W)x2.9(H)	GTS252	May. 16 2014	May. 15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April. 29 2015	April. 29 2016
3	Pulse Limiter	R&S	ESH3-Z2	GTS224	July. 03 2015	July. 02 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July. 03 2015	July. 02 2016
5	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	July. 03 2015	July. 02 2016
6	Coaxial Cable	GTS	N/A	GTS227	July. 05 2015	July. 04 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Thermo meter	KTJ	TA328	GTS233	July. 07 2015	July. 06 2016

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 07 2015	July 06 2016

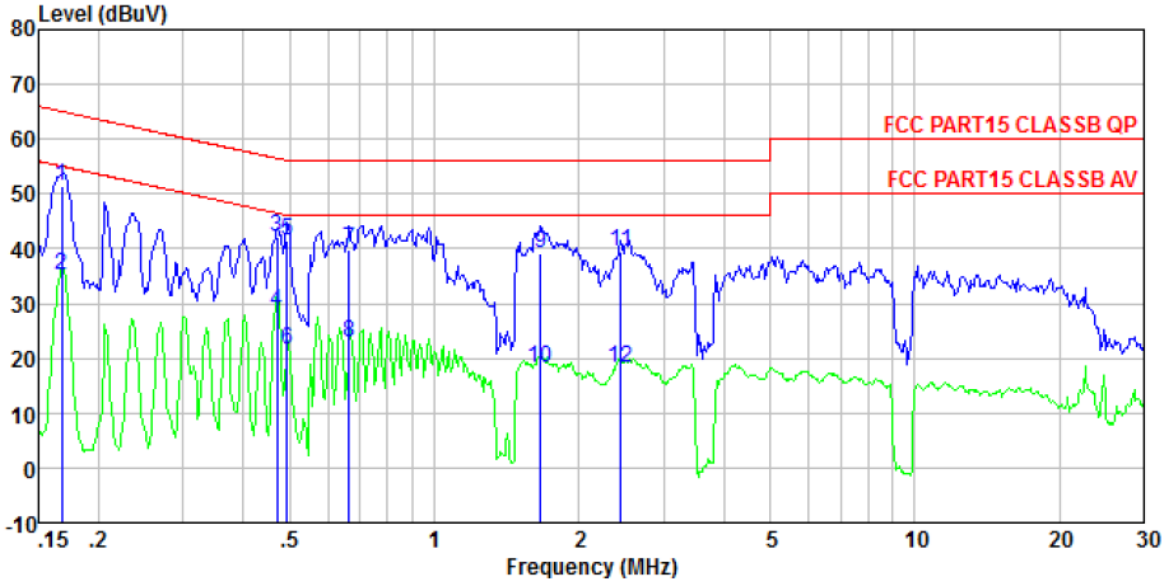
7 Test Results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107
Test Method:	ANSI C63.4:2014
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:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
Test procedure:	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: 2014 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

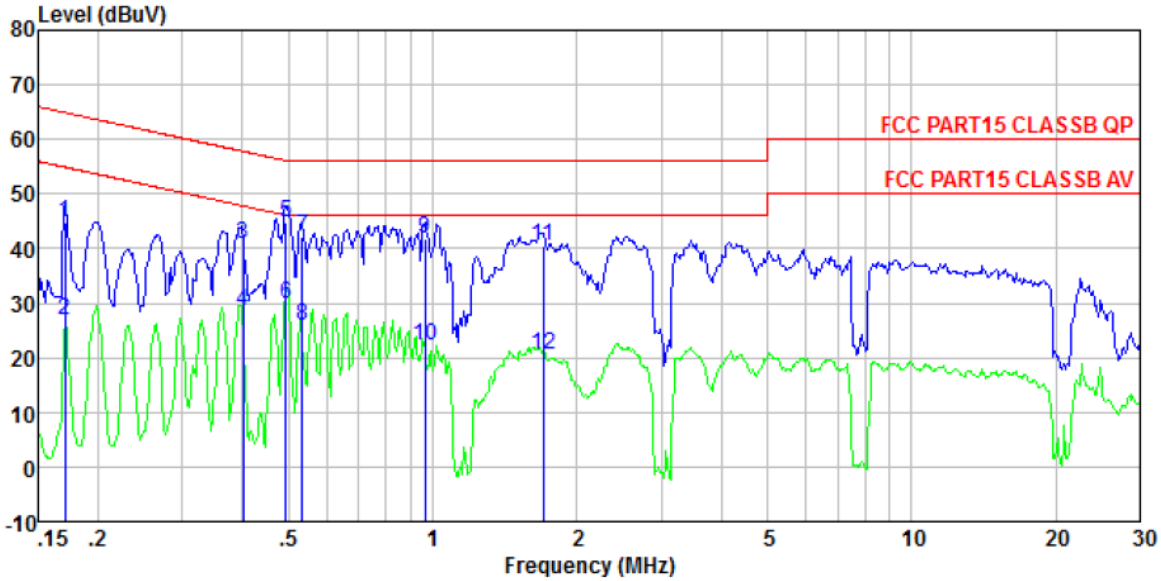
Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE
Job No. : 0787
Test mode : PC mode
Test Engineer: Sky

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.168	51.03	0.15	0.12	51.30	65.08	-13.78	QP
2	0.168	34.79	0.15	0.12	35.06	55.08	-20.02	Average
3	0.471	41.80	0.12	0.11	42.03	56.49	-14.46	QP
4	0.471	28.28	0.12	0.11	28.51	46.49	-17.98	Average
5	0.494	41.38	0.12	0.11	41.61	56.10	-14.49	QP
6	0.494	21.22	0.12	0.11	21.45	46.10	-24.65	Average
7	0.665	39.66	0.14	0.13	39.93	56.00	-16.07	QP
8	0.665	22.44	0.14	0.13	22.71	46.00	-23.29	Average
9	1.662	38.77	0.12	0.14	39.03	56.00	-16.97	QP
10	1.662	17.96	0.12	0.14	18.22	46.00	-27.78	Average
11	2.448	39.12	0.13	0.15	39.40	56.00	-16.60	QP
12	2.448	18.02	0.13	0.15	18.30	46.00	-27.70	Average

Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
Job No. : 0787
Test mode : PC mode
Test Engineer: Sky

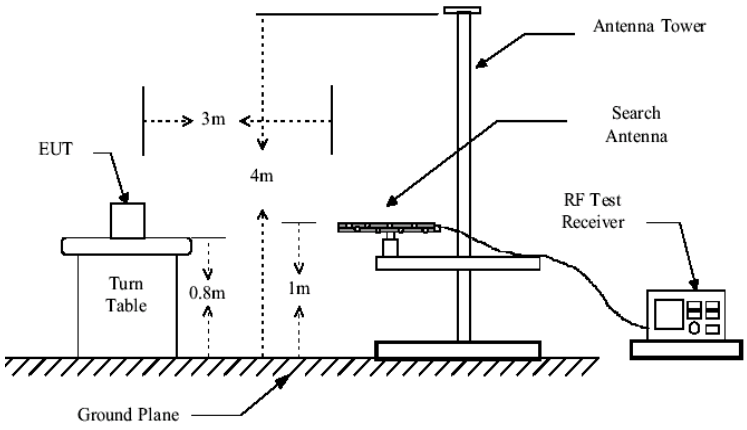
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.170	44.56	0.07	0.12	44.75	64.94	-20.19	QP
2	0.170	26.65	0.07	0.12	26.84	54.94	-28.10	Average
3	0.402	40.65	0.06	0.11	40.82	57.81	-16.99	QP
4	0.402	28.37	0.06	0.11	28.54	47.81	-19.27	Average
5	0.494	44.59	0.06	0.11	44.76	56.10	-11.34	QP
6	0.494	29.64	0.06	0.11	29.81	46.10	-16.29	Average
7	0.535	42.11	0.07	0.11	42.29	56.00	-13.71	QP
8	0.535	25.77	0.07	0.11	25.95	46.00	-20.05	Average
9	0.963	41.64	0.07	0.13	41.84	56.00	-14.16	QP
10	0.963	22.01	0.07	0.13	22.21	46.00	-23.79	Average
11	1.698	40.29	0.09	0.14	40.52	56.00	-15.48	QP
12	1.698	20.47	0.09	0.14	20.70	46.00	-25.30	Average

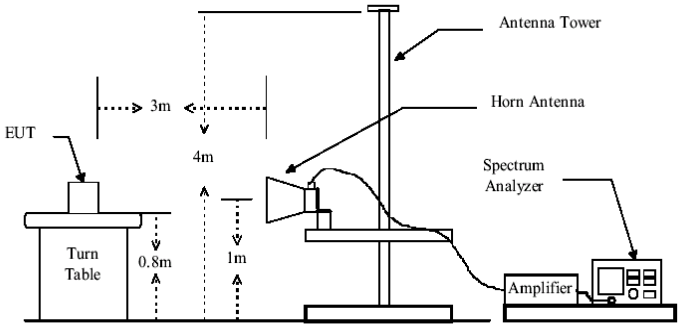
Notes:

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

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 B Section 15.109</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.4:2014</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 6GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></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>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></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>
</td></tr>
<tr><td>Test Procedure:</td><td>
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.
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.
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.
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.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
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.
</td></tr>
<tr><td>Test setup:</td><td>Below 1GHz</td></tr>
</table>

<table>
<tr><td></td><td colspan="6"> 

Above 1GHz

</td></tr>
<tr><td>Test environment:</td><td>Temp.:</td><td>25 °C</td><td>Humid.:</td><td>52%</td><td>Press.:</td><td>1 012mbar</td></tr>
<tr><td>Measurement Record:</td><td colspan="6">Uncertainty: ± 4.5dB</td></tr>
<tr><td>Test Instruments:</td><td colspan="6">Refer to section 6 for details</td></tr>
<tr><td>Test mode:</td><td colspan="6">Refer to section 5.3 for details</td></tr>
<tr><td>Test results:</td><td colspan="6">Pass</td></tr>
</table>

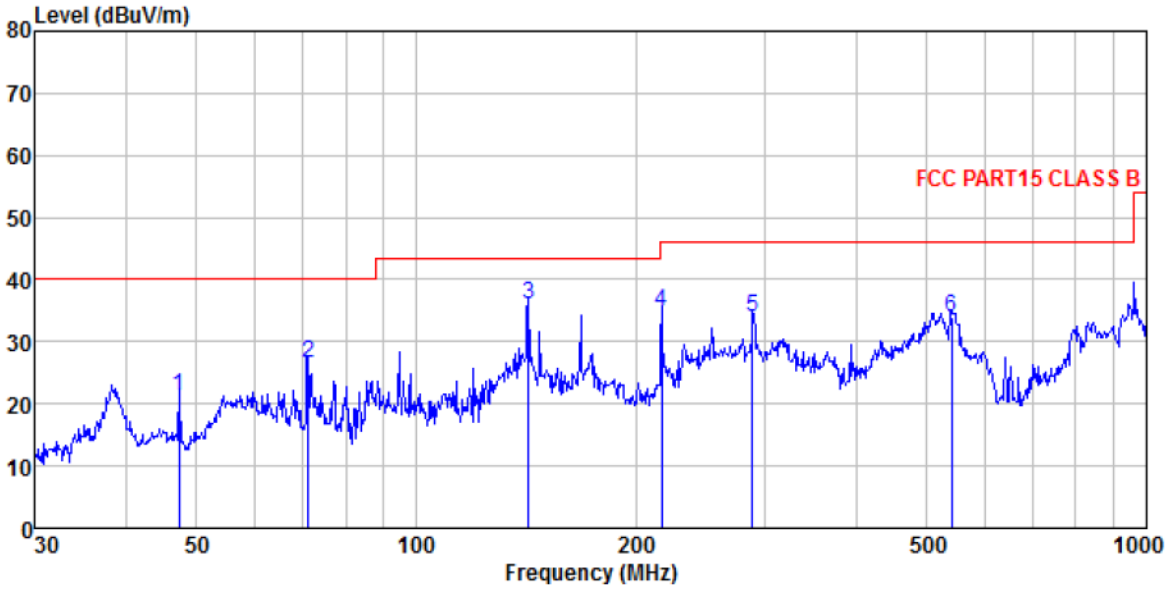
Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

Measurement Data

Below 1GHz

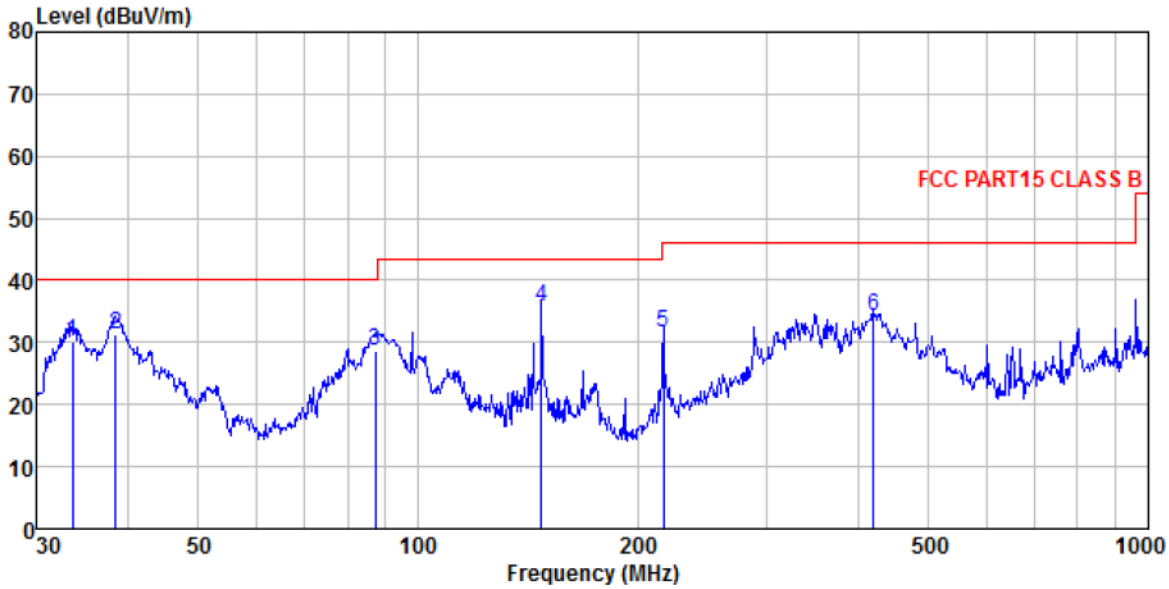
Horizontal:



Condition : FCC PART15 CLASS B VULB9163-2013M HORIZONTAL
Job No. : 787
Test Mode : PC mode
Test Engineer: He

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	47.326	35.18	15.41	0.74	30.01	21.32	40.00	-18.68	QP
2	71.080	45.12	10.45	0.95	29.85	26.67	40.00	-13.33	QP
3	142.324	53.67	10.21	1.52	29.44	35.96	43.50	-7.54	QP
4	216.783	49.15	13.10	1.94	29.36	34.83	46.00	-11.17	QP
5	289.002	46.80	14.84	2.31	29.93	34.02	46.00	-11.98	QP
6	541.373	40.28	19.41	3.49	29.30	33.88	46.00	-12.12	QP

Vertical:

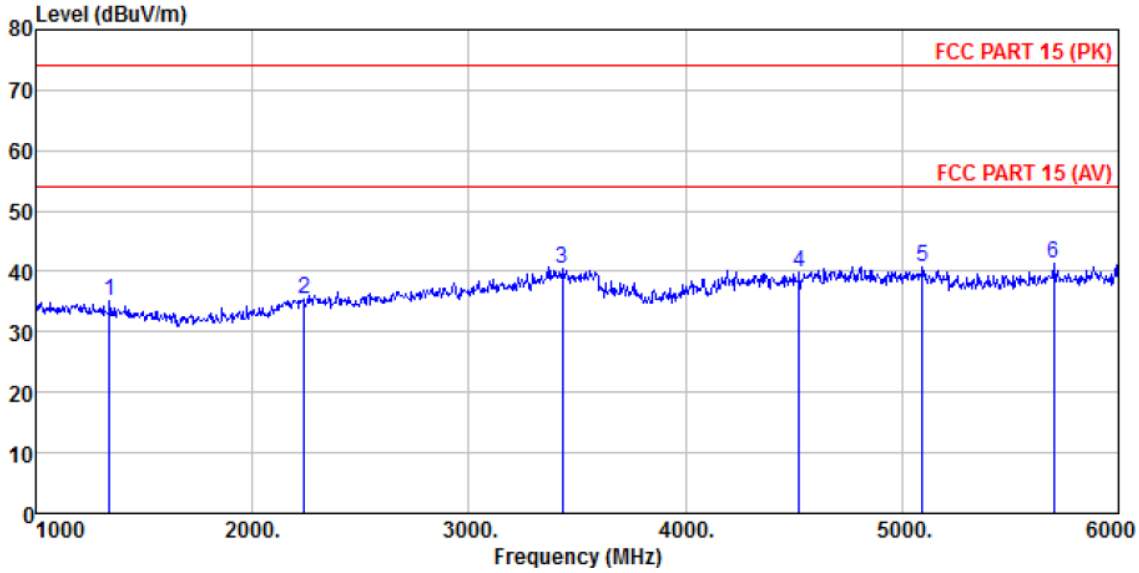


Condition : FCC PART15 CLASS B VULB9163-2013M VERTICAL
Job No. : 787
Test Mode : PC mode
Test Engineer: He

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	33.680	45.35	14.31	0.59	30.08	30.17	40.00	-9.83	QP
2	38.481	45.39	15.20	0.65	30.05	31.19	40.00	-8.81	QP
3	87.418	44.03	13.18	1.09	29.76	28.54	40.00	-11.46	QP
4	147.404	53.47	10.24	1.55	29.42	35.84	43.50	-7.66	QP
5	216.783	46.04	13.10	1.94	29.36	31.72	46.00	-14.28	QP
6	420.580	43.28	17.47	2.95	29.45	34.25	46.00	-11.75	QP

Above 1GHz

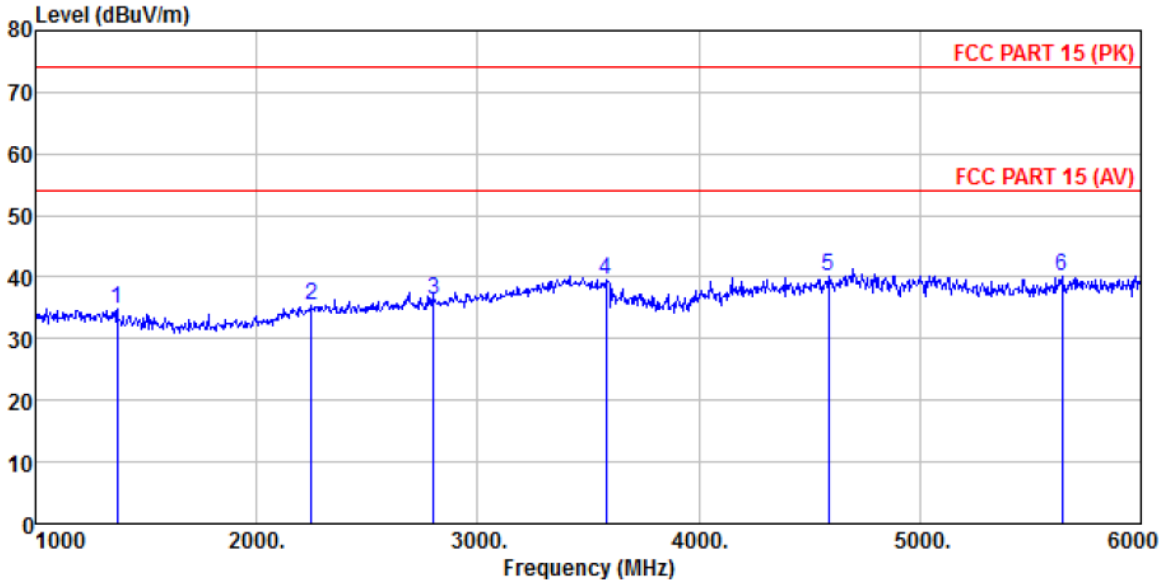
Horizontal:



Condition : FCC PART 15 (PK) BBHA9120D ANT(>1GHZ) HORIZONTAL
Job No. : 787
Test Mode : PC mode
Test Engineer: He

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1340.000	38.26	25.69	4.57	33.33	35.19	74.00	-38.81	Peak
2	2240.000	36.29	28.00	5.23	34.19	35.33	74.00	-38.67	Peak
3	3430.000	37.70	28.72	6.82	32.83	40.41	74.00	-33.59	Peak
4	4525.000	32.09	31.37	8.36	31.95	39.87	74.00	-34.13	Peak
5	5095.000	31.94	32.03	8.90	32.23	40.64	74.00	-33.36	Peak
6	5700.000	31.30	32.50	9.79	32.31	41.28	74.00	-32.72	Peak

Vertical:

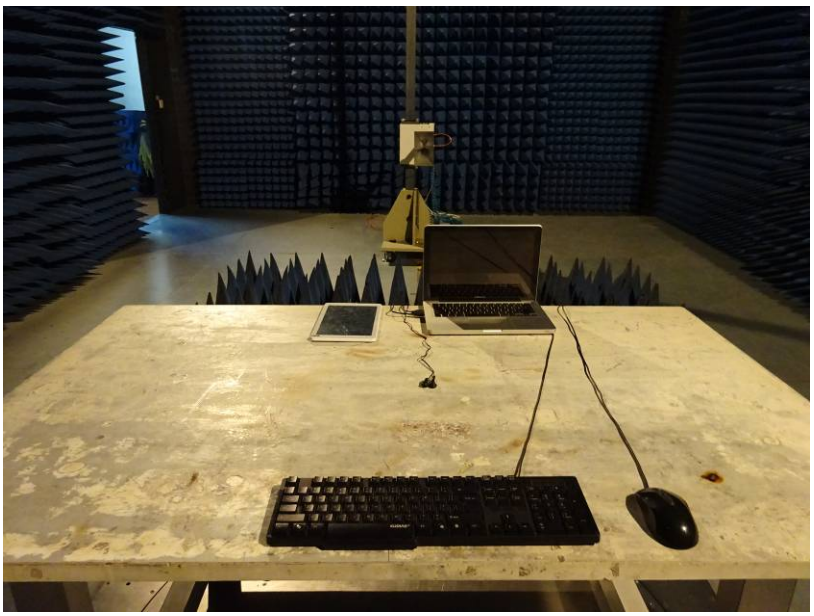


Condition : FCC PART 15 (PK) BBHA9120D ANT(>1GHZ) VERTICAL
Job No. : 787
Test Mode : PC mode
Test Engineer: He

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1370.000	37.88	25.66	4.59	33.39	34.74	74.00	-39.26	Peak
2	2250.000	36.30	28.02	5.24	34.17	35.39	74.00	-38.61	Peak
3	2800.000	35.74	28.42	5.76	33.55	36.37	74.00	-37.63	Peak
4	3580.000	35.93	29.11	7.11	32.66	39.49	74.00	-34.51	Peak
5	4585.000	32.18	31.49	8.41	31.98	40.10	74.00	-33.90	Peak
6	5645.000	30.52	32.36	9.72	32.35	40.25	74.00	-33.75	Peak

8 Test Setup Photo

Radiated Emission



Conducted Emission

9 EUT Constructional Details

Reference to the test report No. GTS16000787E01

------ End ------