



BUREAU  
VERITAS

Test Report No.: FC131017N022



Test Lab  
Cert 2951.01

## TEST REPORT



Applicant	Sonim Technologies, Inc.
Address	1825 S Grant St , Suite 200, San Mateo, CA 94402 United States

Manufacturer or Supplier	Sonim Technologies, Inc.
Address	1825 S Grant St , Suite 200, San Mateo, CA 94402 United States
Product	CDMA Mobile Phone
Brand Name	Sonim
Model	XP4400-A-R1
Additional Model & Model Difference	N/A
Date of tests	Oct. 17, 2013 ~ Oct. 24, 2013

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

**FCC Part 15, Subpart B, Class B**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Jeffery Lee Project Engineer / EMC Department	Approved by Sam Tung Manager/ EMC Department
	 Date: Oct. 24, 2013

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**VERITAS**

Test Report No.: FC131017N022

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FC131017N022	Original release	Oct. 24, 2013



# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section	Test Item	Result	Remark
15.107	Conducted Emission Test	PASS	Meet the requirement of limit. Minimum passing margin is -12.74dB at 0.64362MHz.
15.109	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -12.85dB at 384.05MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -9.6dB at 6922MHz

## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	+/-2.67dB
Radiated emissions	30MHz ~ 1GHz	+/-4.81dB
	1GHz~ 18GHz	+/-4.3dB



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	CDMA Mobile Phone	
<b>MODEL NO.</b>	XP4400-A-R1	
<b>NOMINAL VOLTAGE</b>	5.0Vdc (adapter or host equipment) 3.7Vdc (Li-ion battery)	
<b>BATTERY</b>	Brand Name: Sonim Model Name: BAT -01950-01S Power Rating: DC 3.7V, 1950mAh, Li-ion	
<b>MODULATION TYPE</b>	<b>Bluetooth</b>	GFSK, $\pi/4$ -DQPSK, 8DPSK
	<b>CDMA &amp; 1xEVDO</b>	QPSK, OQPSK, HPSK
<b>OPERATING FREQUENCY</b>	<b>Bluetooth</b>	2402MHz~2480MHz
	<b>CDMA &amp; 1xEVDO</b>	824.7MHz ~ 848.31MHz for CDMA2000 BC0; 1851.25MHz ~ 1908.75MHz for CDMA2000 BC1
<b>HW Version</b>	A	
<b>SW Version</b>	E241SQ_1400B00_PPM_01310110T_No PPM	
<b>I/O PORTS</b>	Refer to user's manual	
<b>CABLE SUPPLIED</b>	USB Cable: Unshielded, Detachable, 1.1m; Earphone Cable: Unshielded, Detachable, 1.6m	
<b>ACCESSORY DEVICES</b>	Adapter	

#### NOTE:

- 1 The EUT was powered by the following adapter:

Adapter	
Brand:	Sonim
Model:	3202
Input:	AC 100-240V, 50/60Hz, 150mA
Output:	DC 5V, 700mA
DC line:	N/A

- 2 For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3 For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



## 2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following mode. And the final worst mode is marked in boldface and recorded in this report.

### For conducted emission test:

Mode 1	<b>CDMA2000 BC0 Idle + BT Idle+Battery +USB cable+Adapter +Earphone+ GPS RX</b>
Mode 2	CDMA2000 BC1 Idle + BT Idle+Battery +USB cable+Adapter +Earphone+ Camera
Mode 3	CDMA2000 BC1 Idle + BT Idle+Battery +USB cable+ USB Link +Earphone+MPEG4

### For radiated emission test:

Mode 1	CDMA2000 BC0 Idle + BT Idle+Battery +USB cable+Adapter +Earphone+ GPS RX
Mode 2	CDMA2000 BC1 Idle + BT Idle+Battery +USB cable+Adapter +Earphone+ Camera
<b>Mode 3</b>	<b>CDMA2000 BC1 Idle + BT Idle+Battery +USB cable+ USB Link +Earphone+MPEG4</b>



### 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Universal Radio Communication Tester	R&S	CMU200	123259	N/A
2	BT earphone	FAP00	H6080	N/A	N/A
3	Laptop PC	DELL	E6420	N/A	N/A
4	Mouse	DELL	M056UOA	01688082	N/A
5	Printer	HP	Hplaserjet1300	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	N/A
3	DC Line: Unshielded, Detachable, 1.5m
4	USB Line: Unshielded, undetachable, 1.8m.
5	DC Line: Unshielded, Detachable 1.8m

**NOTE:**

1. All power cords of the above support units are non-shielded (1.8m).
2. Items 1 acted as communication partner to transfer data.



### 3 EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

**NOTE:** 1.The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

##### 3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 14,13	May 13,14
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in Dongguan Shielded Room 553.





### 3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

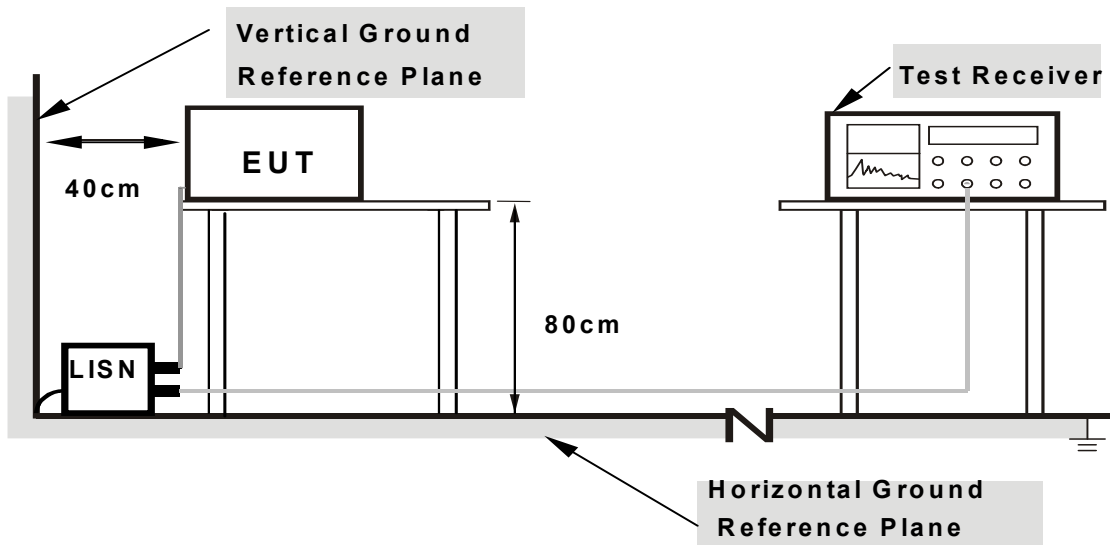
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

### 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



### 3.1.5 TEST SETUP



- Note: 1.Support units were connected to second LISN.**  
**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

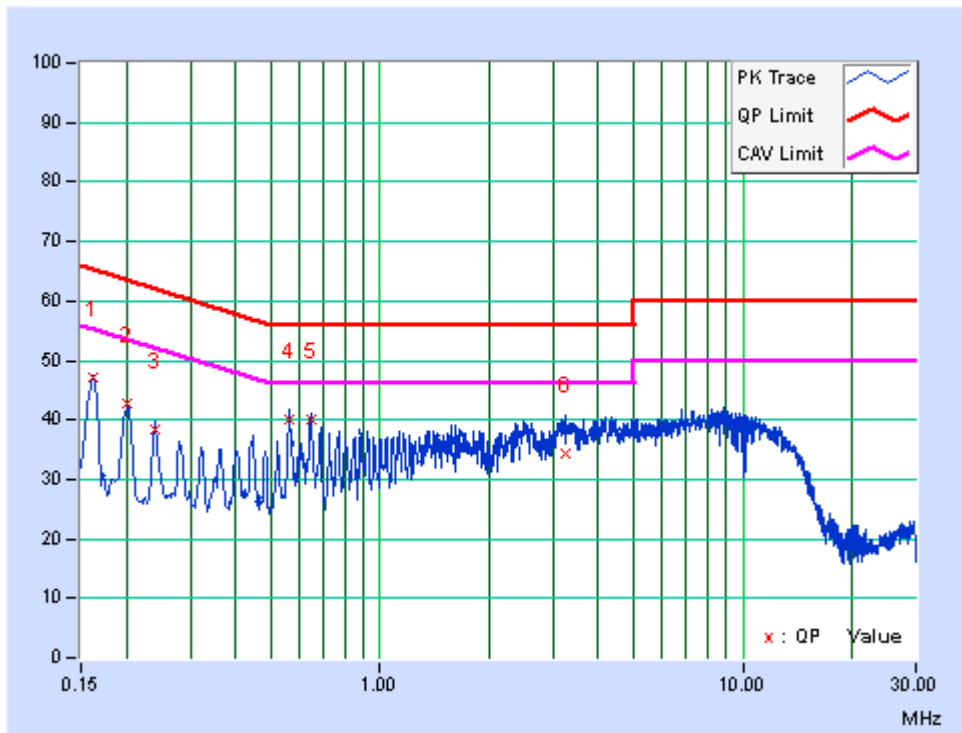


**3.1.7 TEST RESULTS**

<b>TEST MODE</b>	Mode 1	<b>6DB BANDWIDTH</b>	9 kHz
<b>TEST VOLTAGE</b>	DC 5V From Adapter Input AC 120V/60Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 55% RH	<b>TESTED BY</b>	Eric

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16181	10.62	36.45	24.51	47.07	35.13	65.37	55.37	-18.3	-20.24
2	0.20084	10.54	32.36	21.6	42.9	32.14	63.58	53.58	-20.68	-21.44
3	0.24025	10.44	28.07	18.01	38.51	28.45	62.09	52.09	-23.57	-23.63
4	0.56121	10.3	29.85	22.38	40.15	32.68	56	46	-15.85	-13.32
<b>5</b>	<b>0.64362</b>	<b>10.21</b>	<b>29.7</b>	<b>23.05</b>	<b>39.91</b>	<b>33.26</b>	<b>56</b>	<b>46</b>	<b>-16.09</b>	<b>-12.74</b>
6	3.23108	9.92	24.5	15.54	34.42	25.46	56	46	-21.58	-20.54

**REMARKS:** The emission levels of other frequencies were very low against the limit.

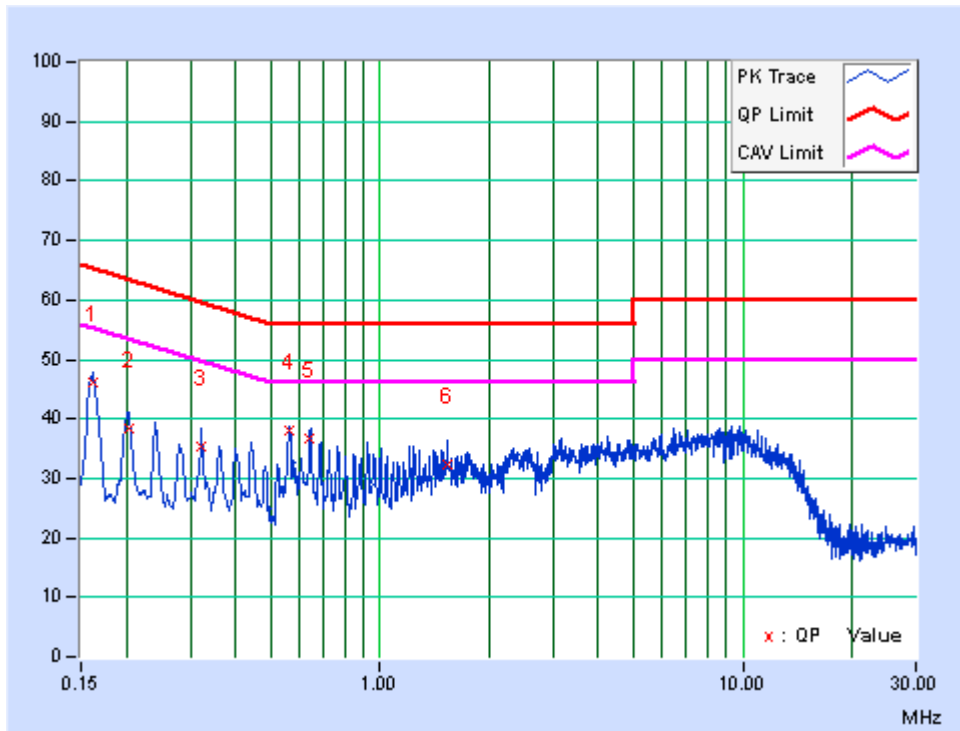




<b>TEST MODE</b>	Mode 1	<b>6DB BANDWIDTH</b>	9 kHz
<b>TEST VOLTAGE</b>	DC 5V From Adapter Input AC 120V/60Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 55% RH	<b>TESTED BY</b>	Eric

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16173	10.51	35.56	23.07	46.07	33.58	65.37	55.37	-19.3	-21.79
2	0.20474	10.42	27.91	17.06	38.33	27.48	63.42	53.42	-25.08	-25.93
3	0.32204	10.48	24.93	15.6	35.41	26.08	59.65	49.65	-24.24	-23.57
4	0.56446	10.42	27.52	20.26	37.94	30.68	56	46	-18.06	-15.32
5	0.64193	10.23	26.6	19.9	36.83	30.13	56	46	-19.17	-15.87
6	1.53023	9.77	22.46	13.98	32.23	23.75	56	46	-23.77	-22.25

**REMARKS:** The emission levels of other frequencies were very low against the limit.





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

Based on FCC part 15 clause 15.109(g). As an alternative to the radiated emission limits to comply with the standards contained in CISPR 22.

#### FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 – 1000	47	37

#### FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower



### LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHZ

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

- Note: (1) The lower limit shall apply at the transition frequencies.  
 (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 3.2.2 TEST INSTRUMENTS

#### For frequency below 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	April 23,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	27089	Jul. 16,13	Jul. 15,14
Bilog Antenna	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Mar. 24,13	Mar. 23,14
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov. 01,13
Test Software	ADT	ADT_Radiated V7.6.15	N/A	N/A	N/A

#### For frequency above 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	EMCO	3117	00062558	Oct.18,13	Oct.17,14
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 04,11	Jan. 03,14
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	April 23,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,12	Nov. 03,13
Test Software	ADT	ADT_Radiated V7.6.15	N/A	N/A	N/A

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA..  
 2. The test was performed in Chamber 10m.  
 3. The FCC Site Registration No. is 502831.



### 3.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters (below 1GHz) and 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

**NOTE:**

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
6. Margin value = Emission level – Limit value.

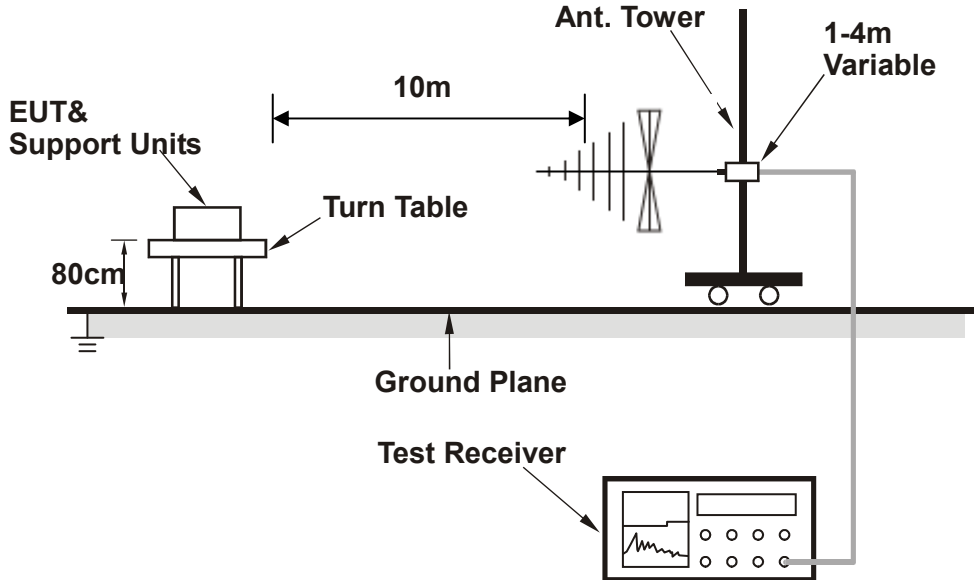
### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation

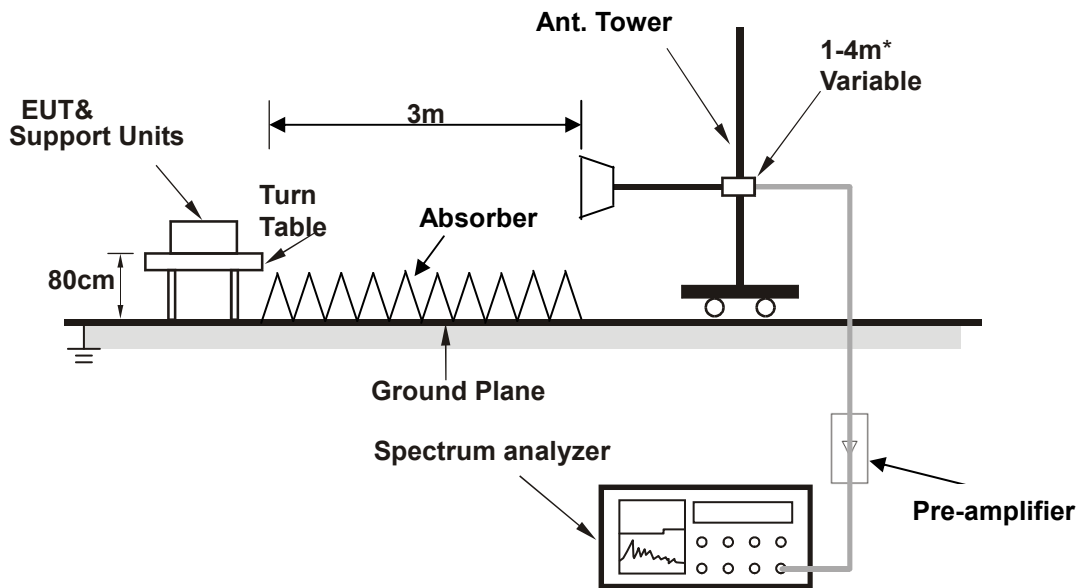


### 3.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



\* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

### 3.2.6 EUT OPERATING CONDITIONS

Same as item 3.1.6.



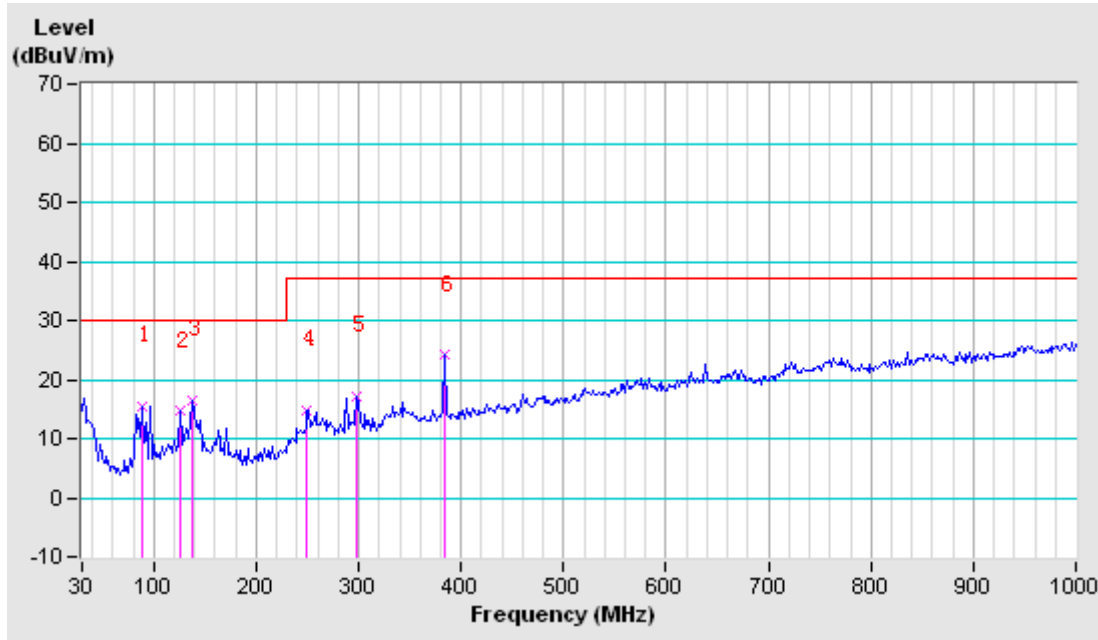


### 3.2.7 TEST RESULTS (BELOW 1GHz)

<b>TEST MODE</b>	Mode 3	<b>FREQUENCY RANGE</b>	30-1000MHz
<b>TEST VOLTAGE</b>	DC 5V From PC Input AC 120V/60Hz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 51% RH	<b>TESTED BY:</b> Endy	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	88.2	9.75	5.74	15.49	30	-14.51	278	119
2	125.38	13.12	1.54	14.66	30	-15.34	294	103
3	138.32	12.95	3.58	16.53	30	-13.47	245	152
4	249.87	14.19	0.69	14.88	37	-22.12	325	73
5	298.37	15.37	1.67	17.04	37	-19.96	204	193
<b>6</b>	<b>384.05</b>	<b>17.6</b>	<b>6.55</b>	<b>24.15</b>	<b>37</b>	<b>-12.85</b>	<b>220</b>	<b>177</b>

**REMARKS:** The emission levels of other frequencies were very low against the limit.

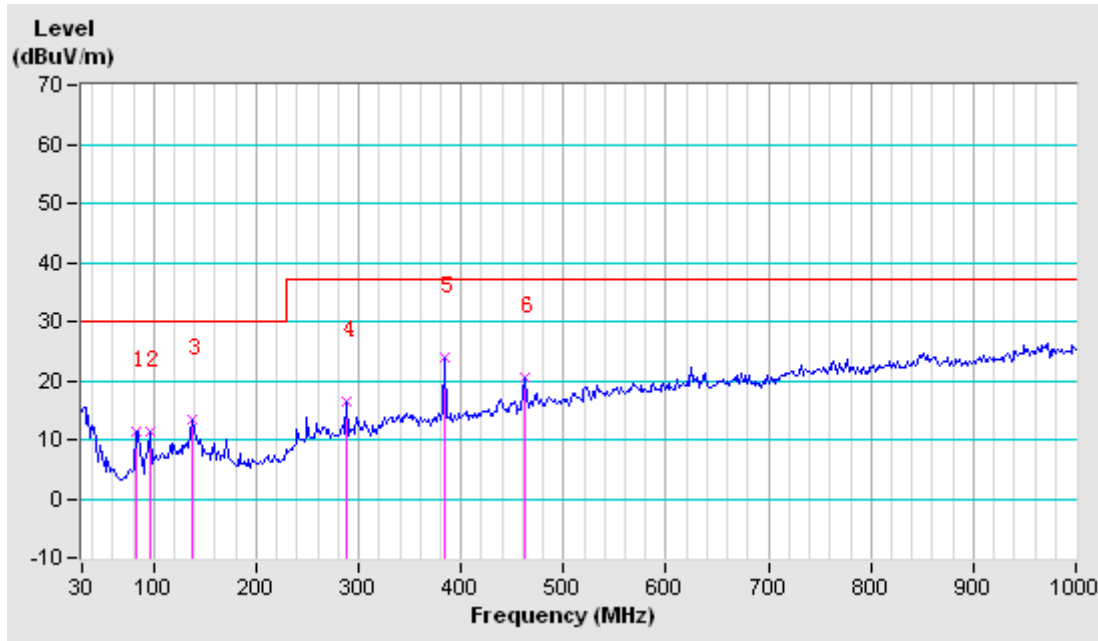




<b>TEST MODE</b>	Mode 3	<b>FREQUENCY RANGE</b>	30-1000MHz
<b>TEST VOLTAGE</b>	DC 5V From PC Input AC 120V/60Hz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 51% RH	<b>TESTED BY:</b> Endy	

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 10 M</b>								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	83.35	9.12	2.33	11.45	30	-18.55	100	0
2	96.28	10.81	0.6	11.41	30	-18.59	100	96
3	136.7	12.97	0.58	13.55	30	-16.45	100	110
4	288.67	15.2	1.32	16.52	37	-20.48	100	80
5	384.05	17.6	6.36	23.96	37	-13.04	100	54
6	461.65	19.94	0.67	20.61	37	-16.39	100	0

**REMARKS:** The emission levels of other frequencies were very low against the limit.





### 3.2.8 TEST RESULTS (ABOVE 1GHz)

<b>TEST MODE</b>	Mode 3	<b>FREQUENCY RANGE</b>	1000-13000MHz
<b>TEST VOLTAGE</b>	DC 5V From PC Input AC 120V/60Hz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	AV/Peak, 1MHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 51% RH	<b>TESTED BY:</b> Endy	

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	3550 PK	39.38	11.45	50.83	74	-23.17	100	246
2	3550 AV	39.38	-2.28	37.1	54	-16.9	100	246
3	3918 PK	40.28	11.33	51.61	74	-22.39	100	226
4	3918 AV	40.28	0.92	41.2	54	-12.8	100	226
5	6922 PK	45.56	9.48	55.04	74	-18.96	100	325
6	6922 AV	45.56	-1.16	44.4	54	-9.6	100	325

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	2558 PK	37.58	10.91	48.49	74	-25.51	100	128
2	2558 AV	37.58	1.32	38.9	54	-15.1	100	128
3	3947 PK	40.35	12.86	53.21	74	-20.79	100	45
4	3947 AV	40.35	-0.25	40.1	54	-13.9	100	45
5	6412 PK	44.61	10.4	55.01	74	-18.99	100	222
6	6412 AV	44.61	-1.31	43.3	54	-10.7	100	222

#### REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

See test setup photo document.



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## 5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---