



FCC Test Report

FCC ID:2AFGS-S16

Product : Tablet PC

Trade Name : Bben

Model Number : S16

Serial Model : N/A

Report No. : NTEK-2015NT04281573F1

Prepared for

Shenzhen Bben Electronic Equipment CO.,Ltd.
RM1105,Black C,World Trade Plaza,Fuhong Road,Futian District,
Shenzhen,China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Bben Electronic Equipment CO.,Ltd.
Address : RM1105,Black C,World Trade Plaza,Fuhong Road,Futian District,Shenzhen,China
Manufacturer's Name : Shenzhen Bben Electronic Equipment CO.,Ltd.
Address : RM1105,Black C,World Trade Plaza,Fuhong Road,Futian District,Shenzhen,China

Product description

Product name : Tablet PC
Model and/or type reference : S16
Serial Model : N/A
Standards : FCC Part15B:01 Oct.2014
Standards : ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Date of Test :
Date (s) of performance of tests : 28 Apr. 2015~19 Jun.2015
Date of Issue : 19 Jun.2015
Test Result : **Pass**

Testing Engineer : Eileen Liu.
(Eileen Liu)

Technical Manager : Brown Lu
(Brown Lu)

Authorized Signatory : Bill Yao
(Bill Yao)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2014 ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC	
Model Name	S16	
Additional Model Number(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a Tablet PC.	
	Connecting I/O port:	HDMI, DC in,USB
	Operation Frequency:	BT:2402~2480 MHz WIFI: 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz
	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK)
Power Source	AC Voltage	
Adapter	Mode : BSC60-190250 Input: 100-240V~, 50/60Hz, 2.0A MAX Output: 19V---, 2.2A	
Battery	DC 7.4V, 8000mAh	

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

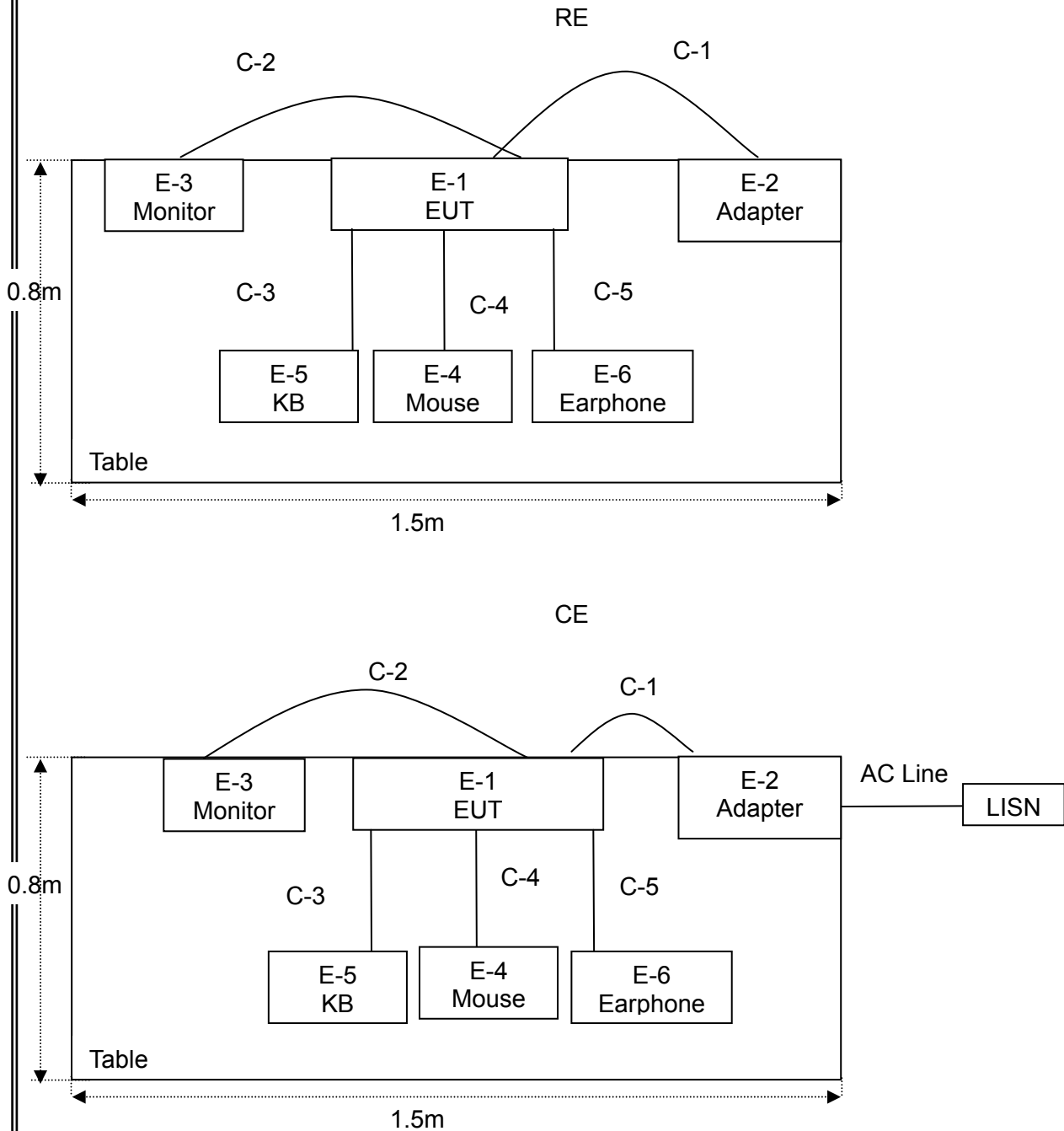
Pretest Mode	Description
Mode 1	RUNNNG Mode
Mode 2	USB PLAYING Mode
Mode 3	TF PLAYING Mode
Mode 4	HDMI Mode

For Conducted Test	
Final Test Mode	Description
Mode 1	RUNNNG Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	RUNNNG Mode

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worse case.
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Tablet PC	Bben	S16	N/A	EUT
E-2	Adapter	N/A	BSC60-190250	N/A	
E-3	Monitor	SONY	KDL-24EX520	6450750	
E-4	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	
C-4	NO	NO	1.0m	
C-5	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.4 MEASUREMENT INSTRUMENTS LIST

2.4.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	LISN	R&S	ENV216	101313	Aug.24, 2014	Aug.23, 2014	1 year
2	LISN	SCHWARZBECK	NNLK 8129	8129245	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	Dec. 25, 2014	Dec. 24, 2015	1 year
4	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2014	Jul. 05, 2015	1 year
5	Test Cable	N/A	C01	N/A	Jun. 08, 2014	Jun. 07, 2015	1 year
6	Test Cable	N/A	C02	N/A	Jun. 08, 2014	Jun. 07, 2015	1 year
7	Test Cable	N/A	C03	N/A	Jun. 08, 2014	Jun. 07, 2015	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jun. 06, 2014	Jun. 05, 2015	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jun. 06, 2014	Jun. 05, 2015	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jun. 06, 2014	Jun. 05, 2015	1 year

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
5	Test Cable	N/A	C01	N/A	Jun. 08, 2015	Jun. 07, 2016	1 year
6	Test Cable	N/A	C02	N/A	Jun. 08, 2015	Jun. 07, 2016	1 year
7	Test Cable	N/A	C03	N/A	Jun. 08, 2015	Jun. 07, 2016	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jun. 06, 2015	Jun. 05, 2016	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jun. 06, 2015	Jun. 05, 2016	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jun. 06, 2015	Jun. 05, 2016	1 year

2.4.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2014	Jul. 05, 2015	1 year
2	Test Cable	N/A	R-01	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
3	Test Cable	N/A	R-02	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jun. 06, 2014	Jun. 05, 2015	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2014	Jul. 05, 2015	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Amplifier	EM	EM-30180	060538	Dec. 22, 2014	Dec. 21, 2015	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jun. 06, 2014	Jun. 05, 2015	1 year

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
4	EMI Test Receiver	R&S	ESCI-7	101318	Jun. 06, 2015	Jun. 05, 2016	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jun. 06, 2015	Jun. 05, 2016	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

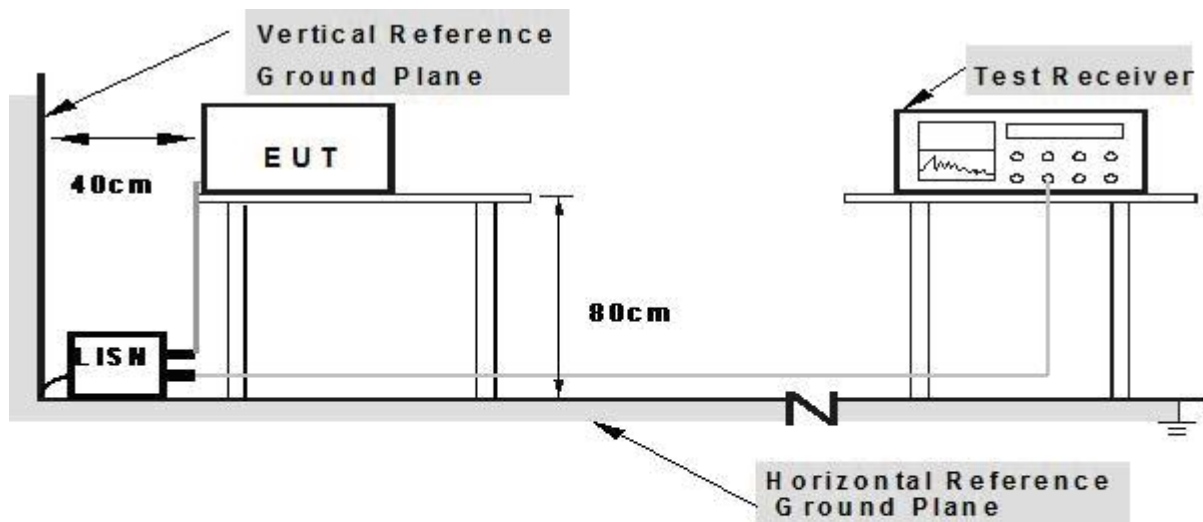
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 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

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

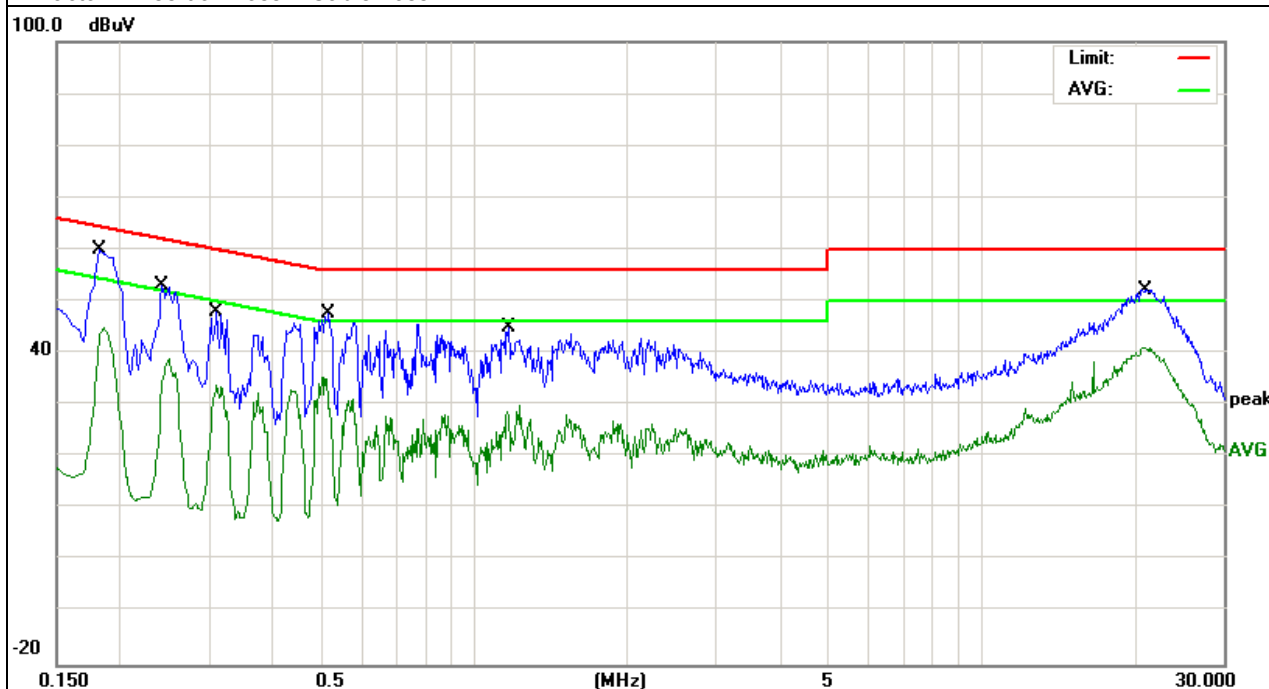
3.1.5 TEST RESULTS

EUT :	Tablet PC	Model Name. :	S16
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-17
Test Mode :	Mode1	Phase :	L
Test Voltage :	DC 19V Form Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1819	50.25	9.61	59.86	64.39	-4.53	QP
0.1819	35.38	9.61	44.99	54.39	-9.40	AVG
0.2419	43.43	9.66	53.09	62.03	-8.94	QP
0.2419	29.24	9.66	38.90	52.03	-13.13	AVG
0.3099	38.37	9.71	48.08	59.97	-11.89	QP
0.3099	24.26	9.71	33.97	49.97	-16.00	AVG
0.5180	37.98	9.77	47.75	56.00	-8.25	AVG
0.5180	25.55	9.77	35.32	46.00	-10.68	QP
1.1699	35.16	9.72	44.88	56.00	-11.12	QP
1.1699	20.14	9.72	29.86	46.00	-16.14	AVG
21.1060	42.26	9.96	52.22	60.00	-7.78	QP
21.1060	31.19	9.96	41.15	50.00	-8.85	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

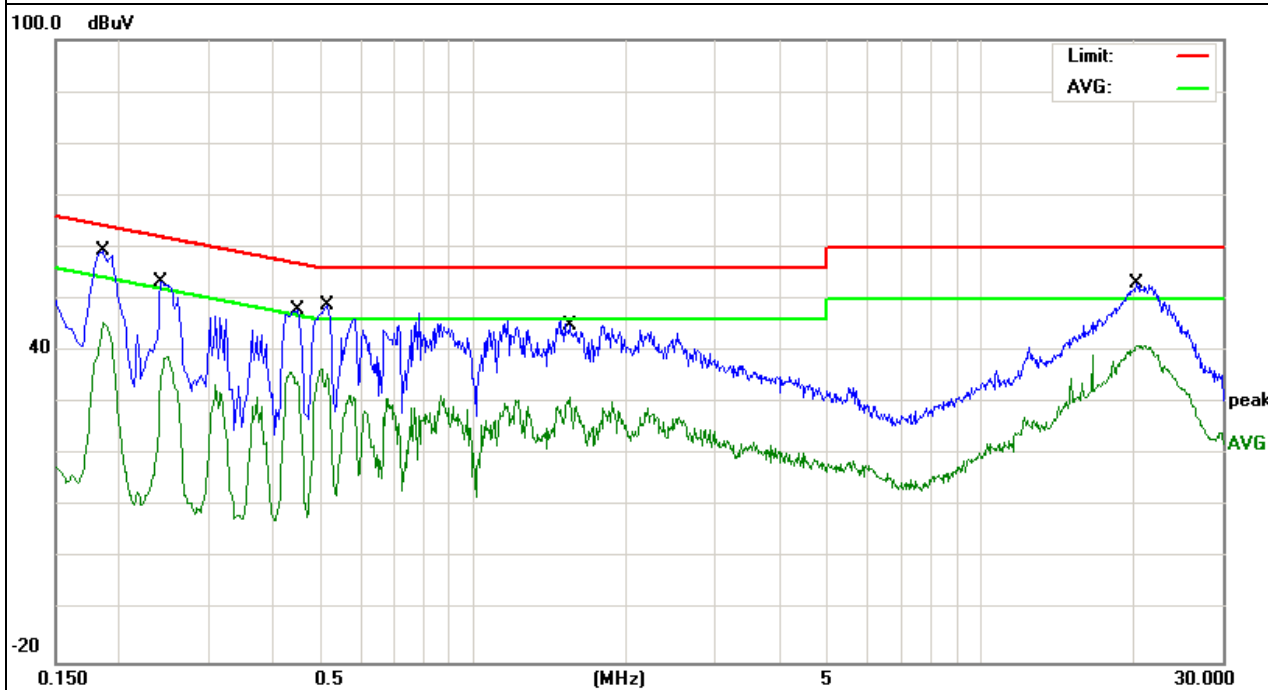


EUT :	Tablet PC	Model Name. :	S16
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-17
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 19V Form Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1860	49.63	9.61	59.24	64.21	-4.97	QP
0.1860	35.82	9.61	45.43	54.21	-8.78	AVG
0.2419	43.84	9.61	53.45	62.03	-8.58	QP
0.2419	29.38	9.61	38.99	52.03	-13.04	AVG
0.4500	38.16	9.66	47.82	56.87	-9.05	QP
0.4500	26.36	9.66	36.02	46.87	-10.85	AVG
0.5180	39.16	9.68	48.84	56.00	-7.16	AVG
0.5180	26.79	9.68	36.47	46.00	-9.53	QP
1.5460	36.36	9.57	45.93	56.00	-10.07	QP
1.5460	21.48	9.57	31.05	46.00	-14.95	AVG
20.2780	43.18	9.83	53.01	60.00	-6.99	QP
20.2780	31.31	9.83	41.14	50.00	-8.86	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

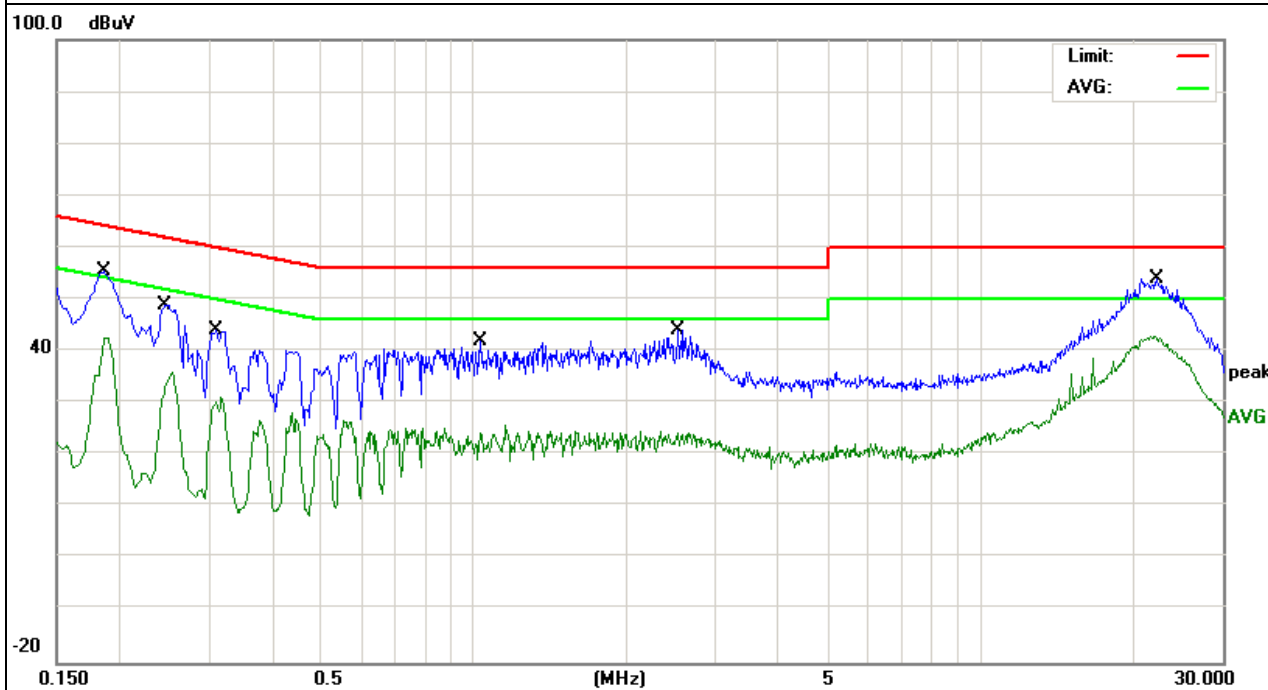


EUT :	Tablet PC	Model Name. :	S16
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-17
Test Mode :	Mode1	Phase :	L
Test Voltage :	DC 19V Form Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1860	45.83	9.61	55.44	64.21	-8.77	QP
0.1860	33.03	9.61	42.64	54.21	-11.57	AVG
0.2460	39.30	9.67	48.97	61.89	-12.92	QP
0.2460	26.35	9.67	36.02	51.89	-15.87	AVG
0.3100	34.29	9.71	44.00	59.97	-15.97	QP
0.3100	21.42	9.71	31.13	49.97	-18.84	AVG
1.0300	32.20	9.73	41.93	56.00	-14.07	AVG
1.0300	14.53	9.73	24.26	46.00	-21.74	QP
2.5300	34.50	9.66	44.16	56.00	-11.84	QP
2.5300	14.90	9.66	24.56	46.00	-21.44	AVG
22.1900	44.03	9.95	53.98	60.00	-6.02	QP
22.1900	33.04	9.95	42.99	50.00	-7.01	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

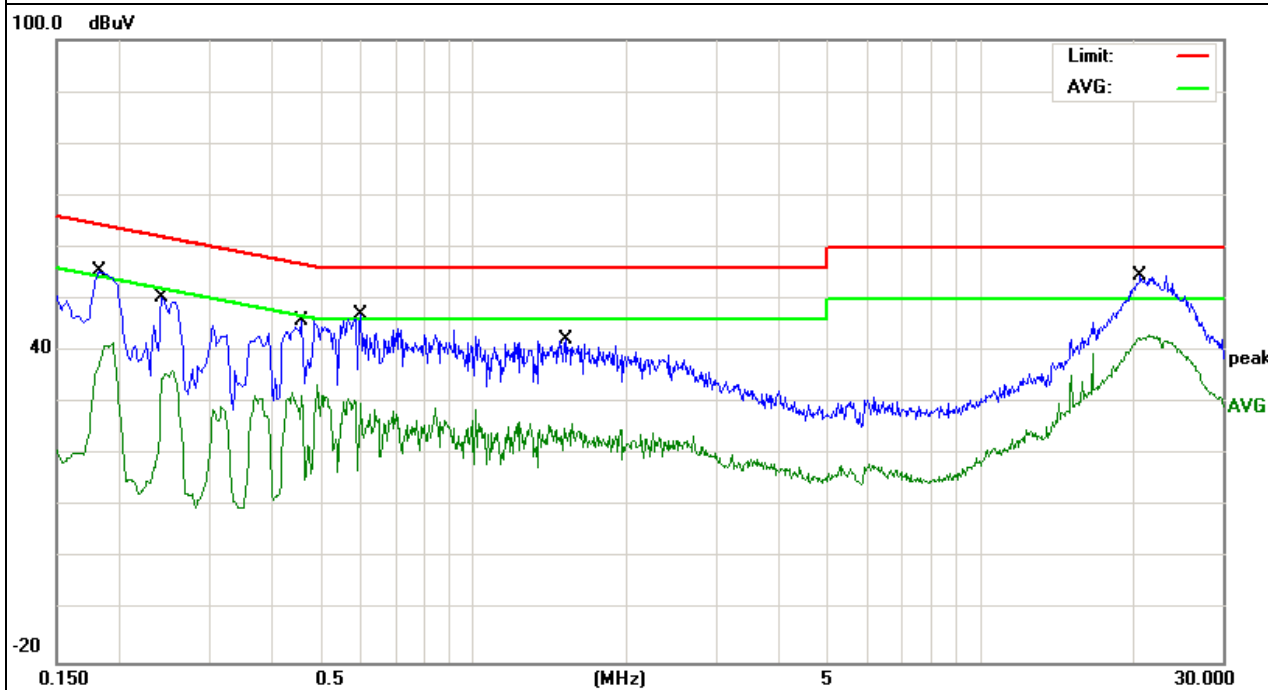


EUT :	Tablet PC	Model Name. :	S16
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-17
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 19V Form Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1819	45.72	9.61	55.33	64.39	-9.06	QP
0.1819	32.11	9.61	41.72	54.39	-12.67	AVG
0.2420	40.76	9.61	50.37	62.02	-11.65	QP
0.2420	26.54	9.61	36.15	52.02	-15.87	AVG
0.4580	36.14	9.66	45.80	56.73	-10.93	QP
0.4580	24.04	9.66	33.70	46.73	-13.03	AVG
0.5980	37.35	9.66	47.01	56.00	-8.99	AVG
0.5980	20.28	9.66	29.94	46.00	-16.06	QP
1.5180	32.65	9.57	42.22	56.00	-13.78	QP
1.5180	16.61	9.57	26.18	46.00	-19.82	AVG
20.6020	44.74	9.84	54.58	60.00	-5.42	QP
20.6020	33.29	9.84	43.13	50.00	-6.87	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- c. The antenna is a broadband antenna, and its 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.
- 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.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

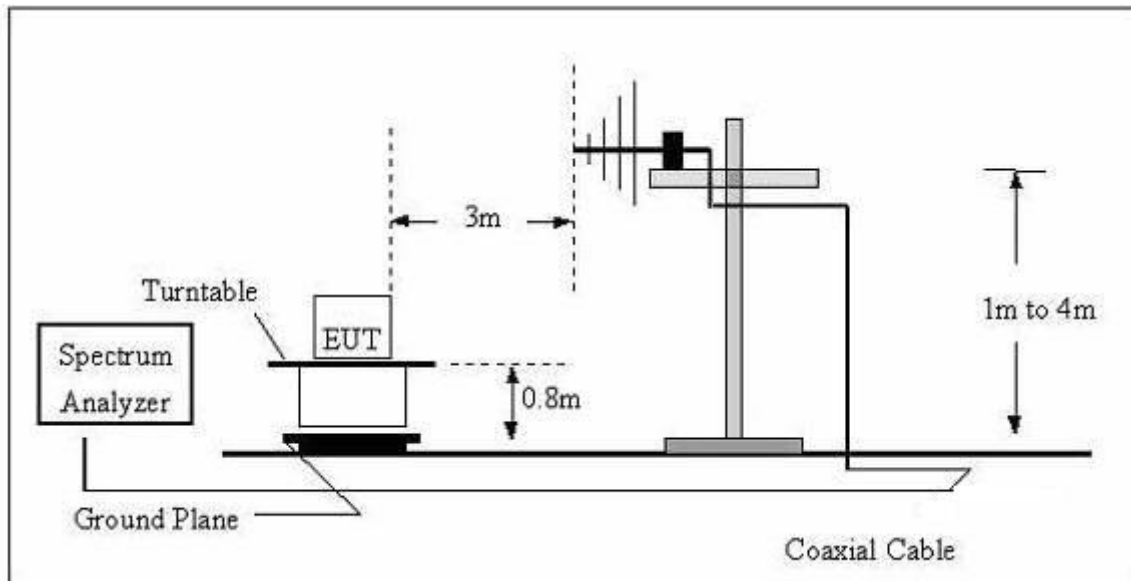
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Peak	1 MHz	10 Hz

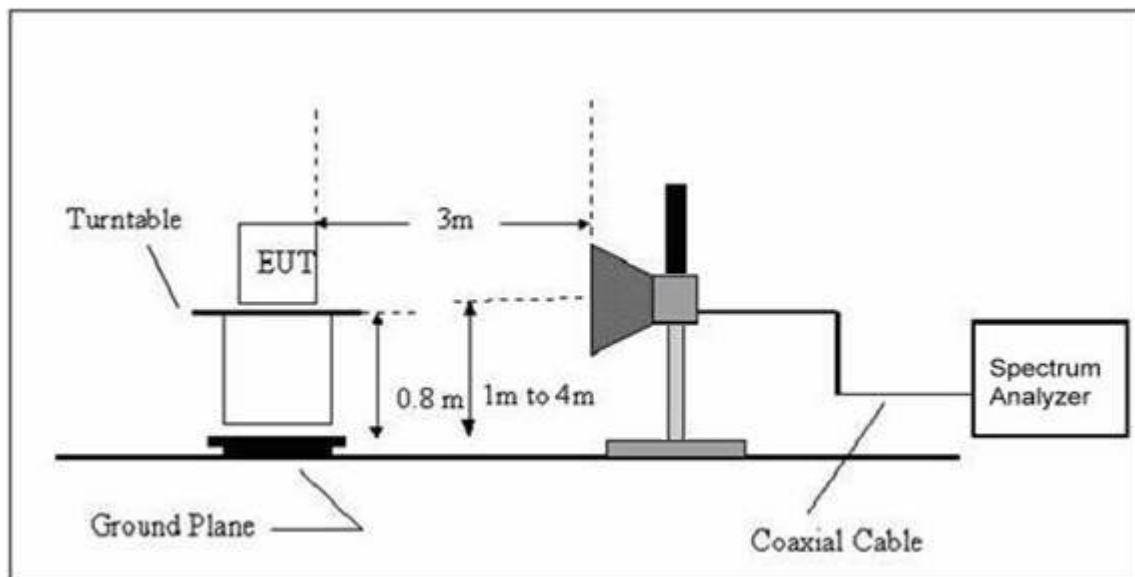
3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 TEST RESULTS

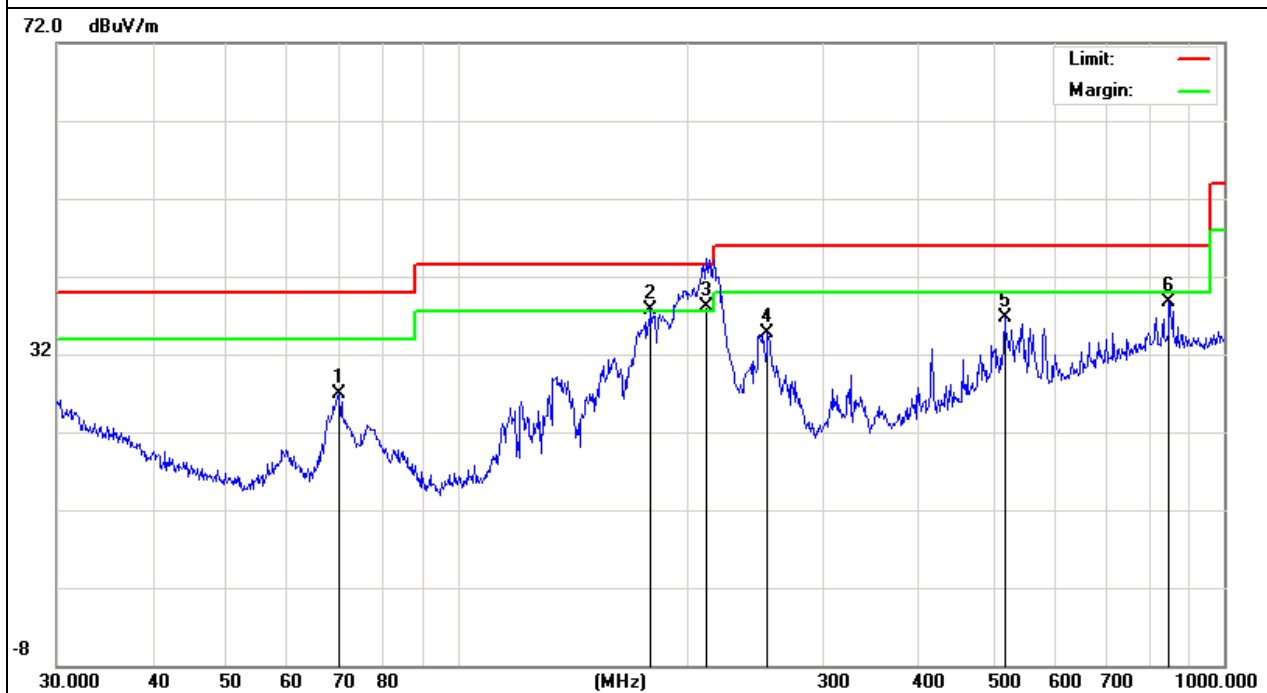
TEST RESULTS (30~1000 MHz)

EUT :	Tablet PC	Model Name :	S16
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-06-17
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
70.0902	21.41	5.57	26.98	40.00	-13.02	QP
178.7583	27.19	10.61	37.80	43.50	-5.70	QP
210.7860	26.69	11.51	38.20	43.50	-5.30	QP
253.8367	21.03	13.64	34.67	46.00	-11.33	QP
517.2480	16.00	20.65	36.65	46.00	-9.35	QP
848.0562	11.55	27.24	38.79	46.00	-7.21	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

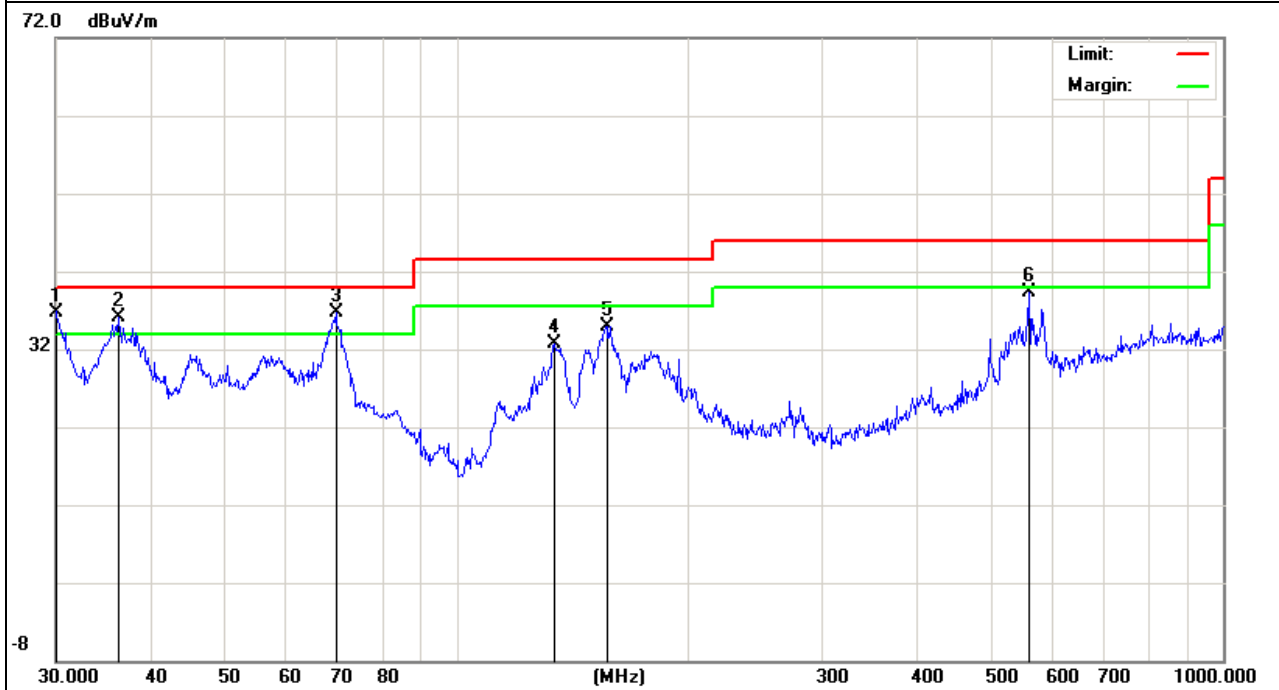


EUT :	Tablet PC	Model Name :	S16
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-06-17
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
30.0000	17.37	19.43	36.80	40.00	-3.20	QP
36.2541	20.24	15.89	36.13	40.00	-3.87	QP
69.6005	30.99	5.66	36.65	40.00	-3.35	QP
134.0882	20.91	11.70	32.61	43.50	-10.89	QP
157.0074	24.42	10.47	34.89	43.50	-8.61	QP
558.7302	17.81	21.52	39.33	46.00	-6.67	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.6 TEST RESULTS(1000~6000MHz)

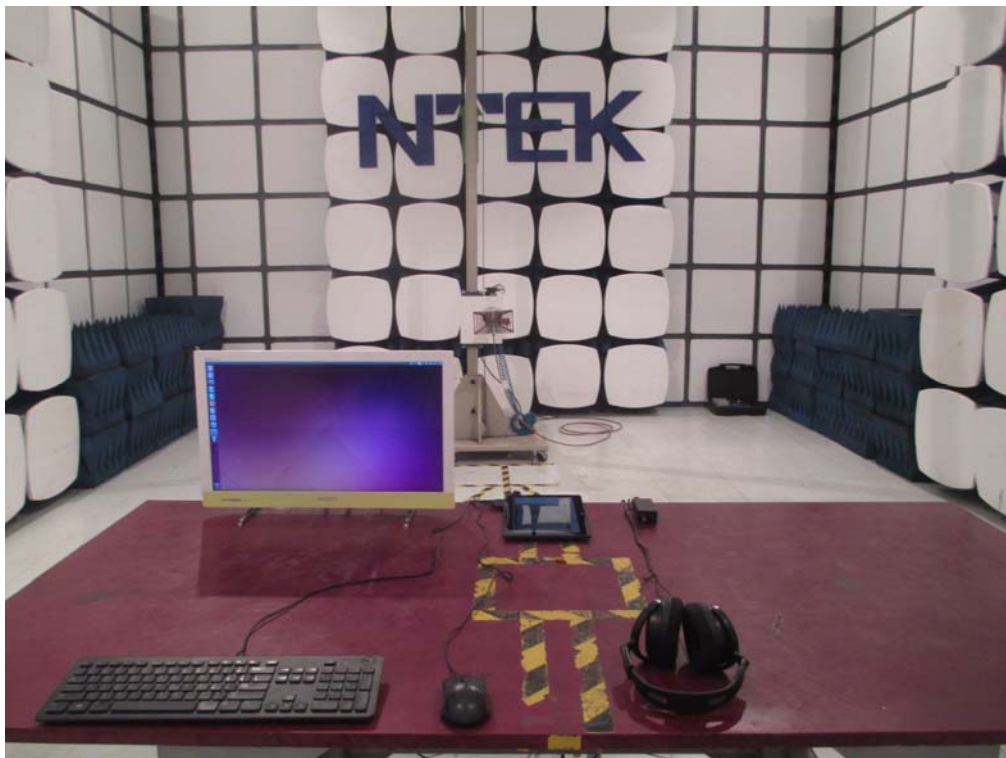
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1231.021	53.42	-10.97	42.45	74.00	-31.55	peak
V	1742.717	56.65	-10.08	46.57	74.00	-27.43	AVG
V	2018.530	56.73	-8.11	48.62	74.00	-25.38	peak
V	2329.632	52.47	-7.93	44.54	74.00	-29.46	AVG
V	2655.171	48.59	-6.72	41.87	74.00	-32.13	peak
V	4030.897	44.69	-1.15	43.54	74.00	-30.46	AVG
H	1253.277	52.90	-10.80	42.10	74.00	-31.90	peak
H	1816.035	59.84	-9.73	50.11	74.00	-23.89	AVG
H	1912.893	60.01	-9.26	50.75	74.00	-23.25	peak
H	1996.946	59.30	-8.53	50.77	74.00	-23.23	AVG
H	2203.762	55.87	-7.53	48.34	74.00	-25.66	peak
H	4821.884	44.06	1.84	45.90	74.00	-28.10	AVG

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

4. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

