



FCC Test Report

FCC ID:S4R-TBGP

Product : Tablet PC

Trade Name : Smoothtalker

Model Number : TBGP

Serial Model : TBG8P,TBG16P,TBG32P

Report No. : NTEK-2015NT06031910R1

Prepared for

Mobile Communications Inc.

230 Earl Stewart Drive, Aurora, Ontario L4G 6V8, Canada

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Mobile Communications Inc.

Address : 230 Earl Stewart Drive, Aurora, Ontario L4G 6V8, Canada

Manufacturer's Name : Mobile Communications Inc.

Address : 230 Earl Stewart Drive, Aurora, Ontario L4G 6V8, Canada

Product description

Product name : Tablet PC

Model and/or type reference : TBGP

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 : 03 Jun. 2015 ~26 Jun. 2015

Date of Issue : 26 Jun. 2015

Test Result : **Pass**

Testing Engineer : Jason Chen
(Jason Chen)

Technical Manager : Brown Lu
(Brown Lu)

Authorized Signatory : Bill Yao
(Bill Yao)

Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST SETUP	8
2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.4 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP	12
3.1.4 EUT OPERATING CONDITIONS	12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	21
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	21
3.2.2 TEST PROCEDURE	21
3.2.3 TEST SETUP	22
3.2.4 TEST RESULTS	23
3.2.5 TEST RESULTS(1000~12400MHz)	25
4 . EUT TEST PHOTO	26

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 expanded 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	TBGP	
Additional Model Number(s)	TBG8P,TBG16P,TBG32P	
Model Difference	All the model are the same circuit and RF module, except the model name and colour.	
Product Description	The EUT is a Tablet PC.	
	Connecting I/O port:	USB, DC in
	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	DC Voltage	
Adapter	Mode : JK050200-S04USB Input: 100-240V~, 50/60Hz, 0.5A Output: 5V---, 2000mA	
Battery	DC 3.7V, 6000mAh	

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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	Data Exchange Mode
Mode 2	REC Mode
Mode 3	TF Card Playing Mode+Charging
Mode 4	GPS

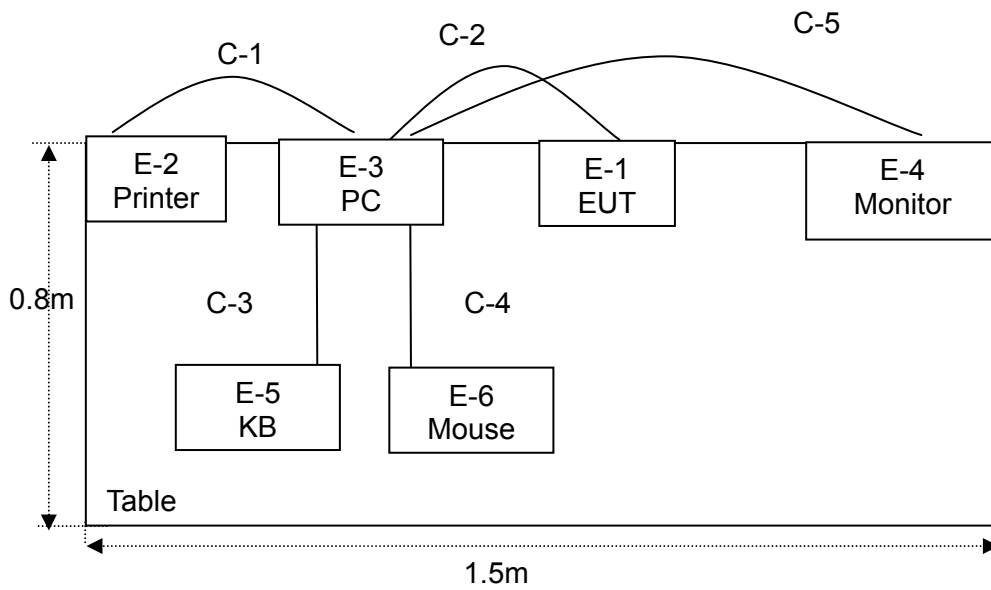
For Conducted Test	
Final Test Mode	Description
Mode 1	Data Exchange Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	Data Exchange Mode

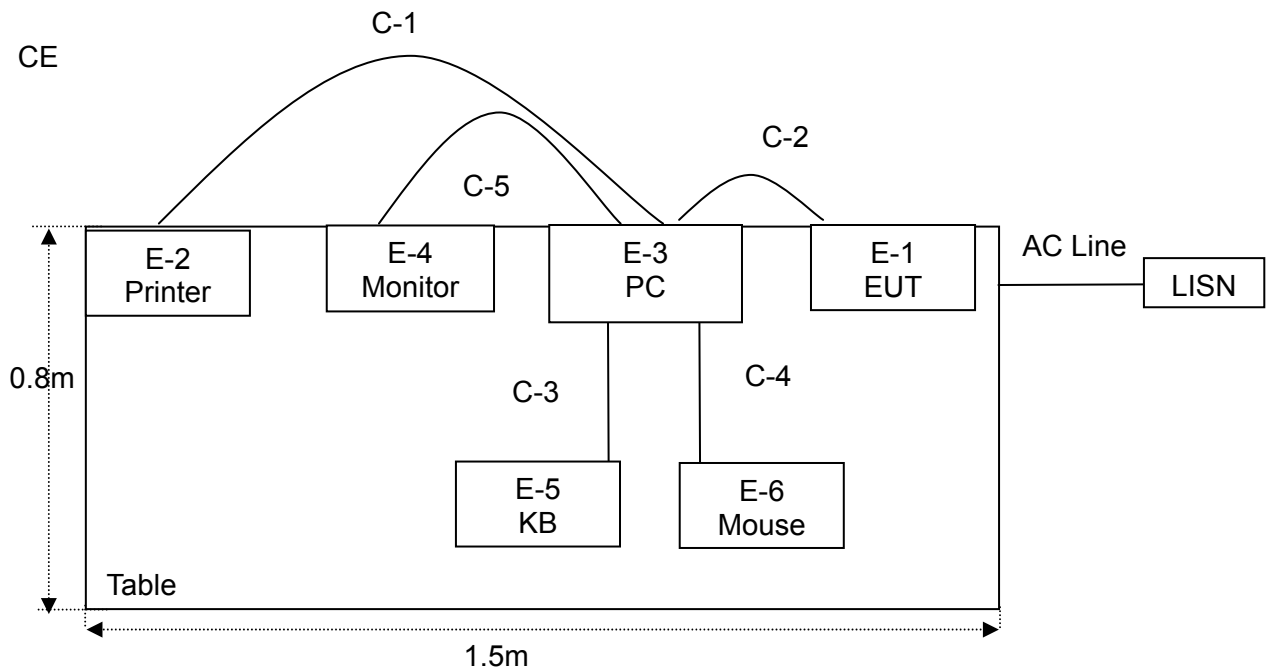
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worse case.
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP

RE



CE



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	Smoothtalker	TBGP	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	

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	Jul. 06, 2014	Jul. 05, 2015	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	Jul. 06, 2014	Jul. 05, 2015	1 year
6	Test Cable	N/A	C02	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
7	Test Cable	N/A	C03	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2014	Jul. 07, 2015	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	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Test Cable	N/A	R-02	N/A	Dec. 25, 2014	Dec. 24, 2015	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2014	Jul. 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	Jul. 06, 2014	Jul. 05, 2015	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06, 2014	Jul. 05, 2015	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.

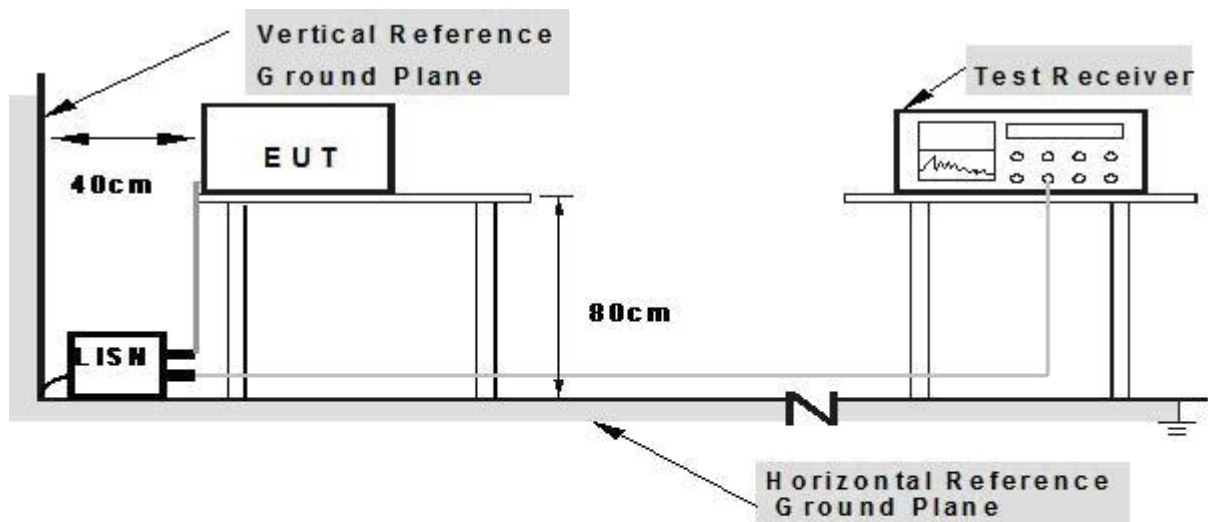
The following table is the setting of the receiver

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.

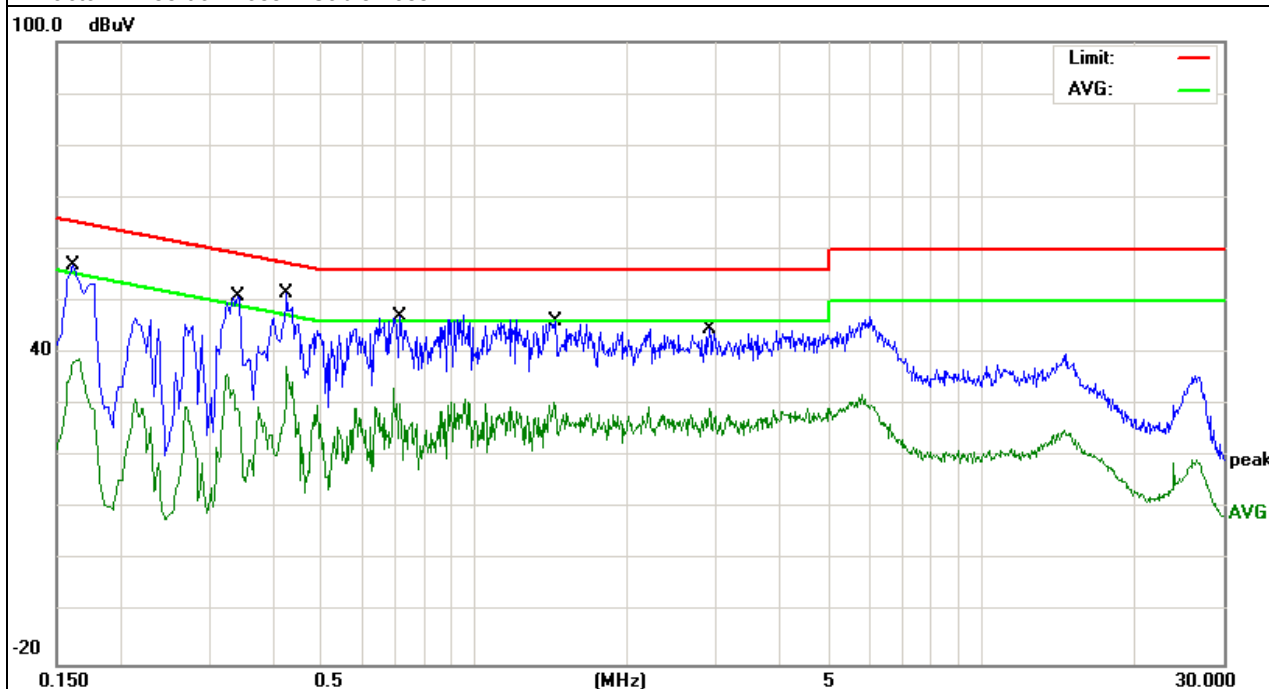
3.1.5 TEST RESULTS

EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1620	47.24	9.62	56.86	65.36	-8.50	QP
0.1620	29.23	9.62	38.85	55.36	-16.51	AVG
0.3420	41.50	9.58	51.08	59.15	-8.07	QP
0.3420	26.40	9.58	35.98	49.15	-13.17	AVG
0.4260	42.23	9.46	51.69	57.33	-5.64	QP
0.4260	27.98	9.46	37.44	47.33	-9.89	AVG
0.7140	37.13	9.78	46.91	56.00	-9.09	QP
0.7140	23.48	9.78	33.26	46.00	-12.74	AVG
1.4460	36.47	9.70	46.17	56.00	-9.83	QP
1.4460	20.79	9.70	30.49	46.00	-15.51	AVG
2.9060	34.86	9.67	44.53	56.00	-11.47	QP
2.9060	19.66	9.67	29.33	46.00	-16.67	AVG

Remark:

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

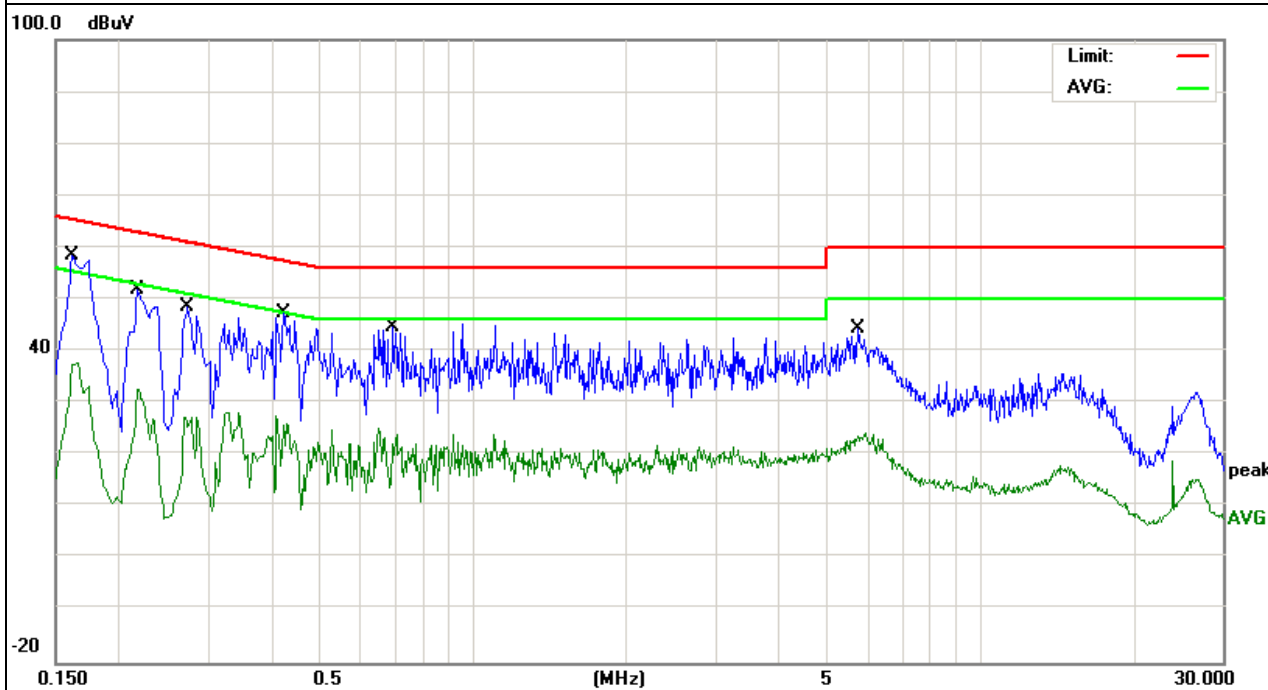


EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1620	48.97	9.60	58.57	65.36	-6.79	QP
0.1620	28.08	9.60	37.68	55.36	-17.68	AVG
0.2180	42.10	9.62	51.72	62.89	-11.17	QP
0.2180	23.12	9.62	32.74	52.89	-20.15	AVG
0.2740	38.90	9.61	48.51	60.99	-12.48	QP
0.2740	17.62	9.61	27.23	50.99	-23.76	AVG
0.4220	37.60	9.64	47.24	57.41	-10.17	QP
0.4220	17.88	9.64	27.52	47.41	-19.89	AVG
0.6940	35.07	9.64	44.71	56.00	-11.29	QP
0.6940	15.51	9.64	25.15	46.00	-20.85	AVG
5.7140	34.94	9.51	44.45	60.00	-15.55	QP
5.7140	14.66	9.51	24.17	50.00	-25.83	AVG

Remark:

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

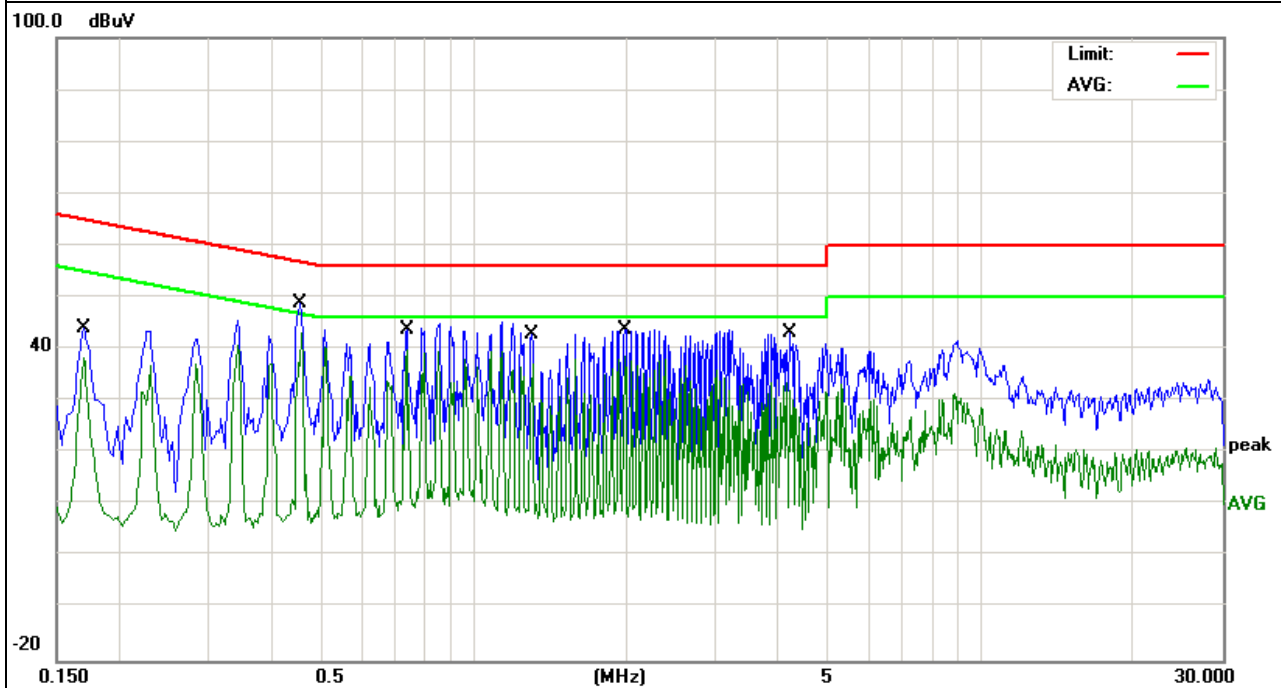


EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From PC AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	34.60	9.57	44.17	64.96	-20.79	QP
0.1700	28.85	9.57	38.42	54.96	-16.54	AVG
0.4580	37.62	9.51	47.13	56.73	-9.60	QP
0.4580	33.60	9.51	43.11	46.73	-3.62	AVG
0.7380	34.35	9.53	43.88	56.00	-12.12	QP
0.7380	30.36	9.53	39.89	46.00	-6.11	AVG
1.3060	31.59	9.54	41.13	56.00	-14.87	QP
1.3060	29.12	9.54	38.66	46.00	-7.34	AVG
1.9860	34.35	9.55	43.90	56.00	-12.10	QP
1.9860	29.24	9.55	38.79	46.00	-7.21	AVG
4.1459	30.18	9.59	39.77	56.00	-16.23	QP
4.1459	24.03	9.59	33.62	46.00	-12.38	AVG

Remark:

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

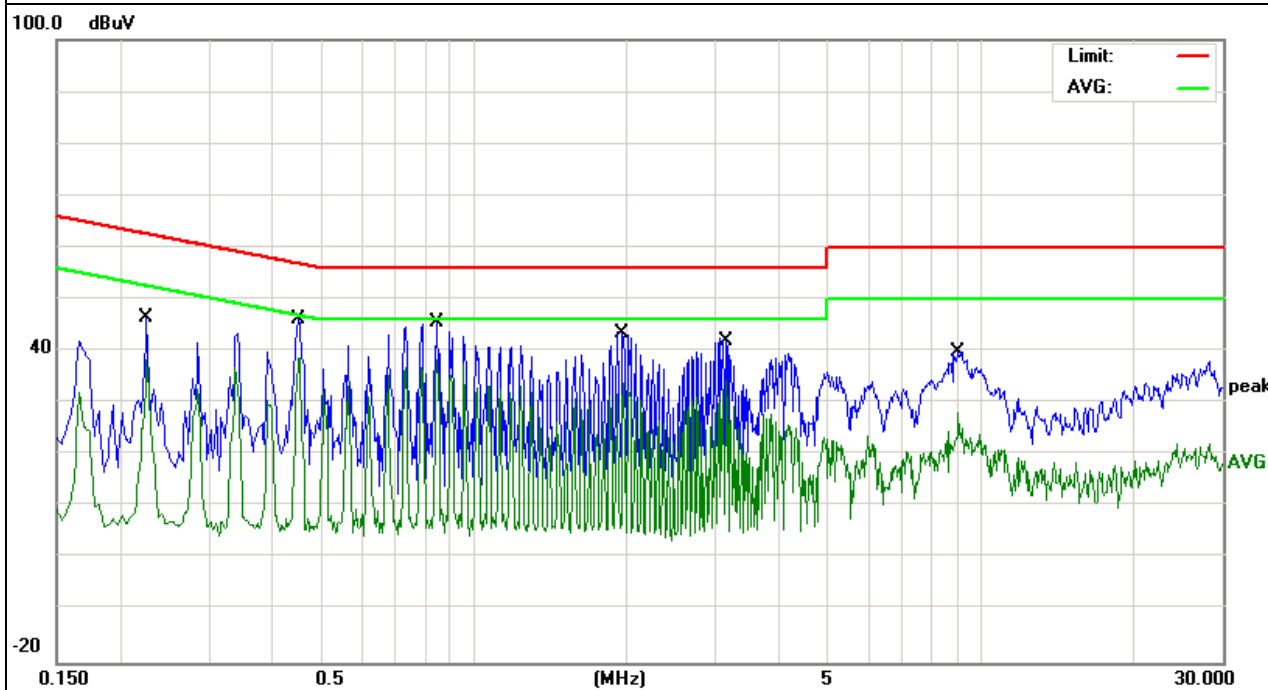


EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From PC AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2260	36.91	9.49	46.40	62.59	-16.19	QP
0.2260	28.76	9.49	38.25	52.59	-14.34	AVG
0.4500	36.66	9.51	46.17	56.87	-10.70	QP
0.4500	29.07	9.51	38.58	46.87	-8.29	AVG
0.8460	35.90	9.53	45.43	56.00	-10.57	QP
0.8460	28.67	9.53	38.20	46.00	-7.80	AVG
1.9700	33.37	9.55	42.92	56.00	-13.08	QP
1.9700	24.41	9.55	33.96	46.00	-12.04	AVG
3.1500	32.48	9.58	42.06	56.00	-13.94	QP
3.1500	24.86	9.58	34.44	46.00	-11.56	AVG
9.0459	30.12	9.72	39.84	60.00	-20.16	QP
9.0459	18.39	9.72	28.11	50.00	-21.89	AVG

Remark:

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

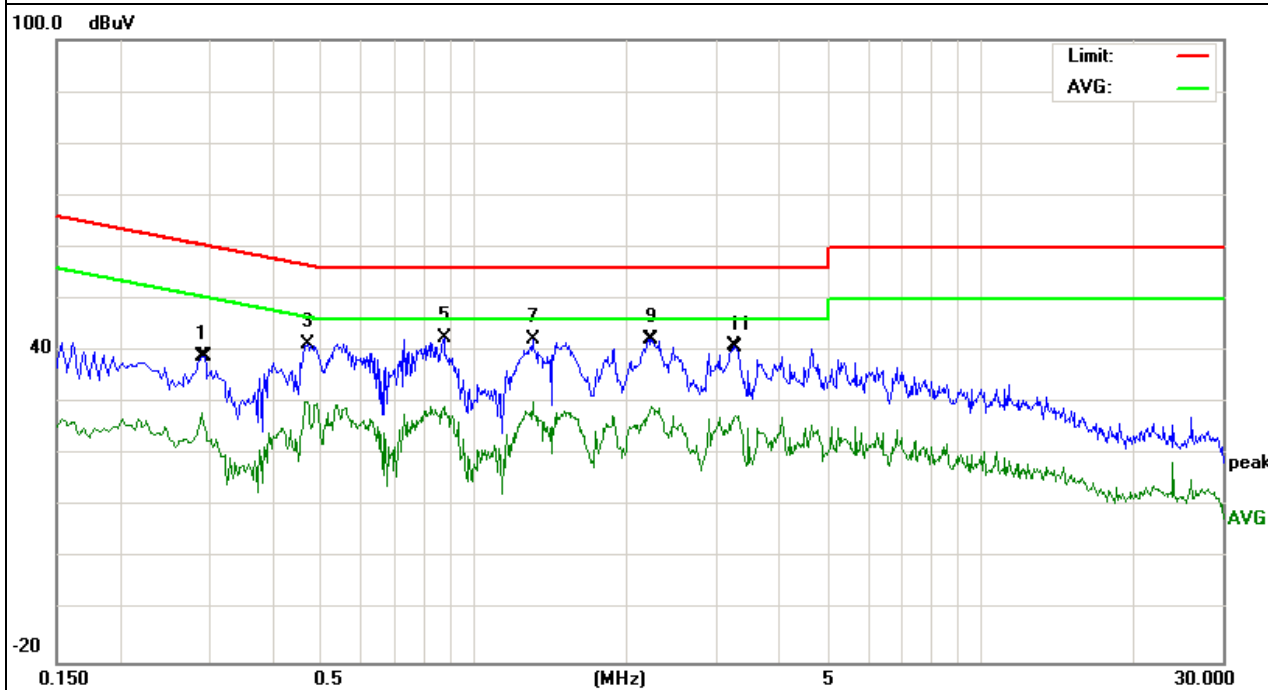


EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2900	29.11	9.73	38.84	60.52	-21.68	QP
0.2900	18.54	9.73	28.27	50.52	-22.25	AVG
0.4700	31.86	9.64	41.50	56.51	-15.01	QP
0.4700	20.62	9.64	30.26	46.51	-16.25	AVG
0.8740	32.81	9.75	42.56	56.00	-13.44	QP
0.8740	19.66	9.75	29.41	46.00	-16.59	AVG
1.3060	32.51	9.71	42.22	56.00	-13.78	QP
1.3060	20.68	9.71	30.39	46.00	-15.61	AVG
2.2420	32.47	9.65	42.12	56.00	-13.88	QP
2.2420	19.58	9.65	29.23	46.00	-16.77	AVG
3.2860	30.98	9.68	40.66	56.00	-15.34	QP
3.2860	17.85	9.68	27.53	46.00	-18.47	AVG

Remark:

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

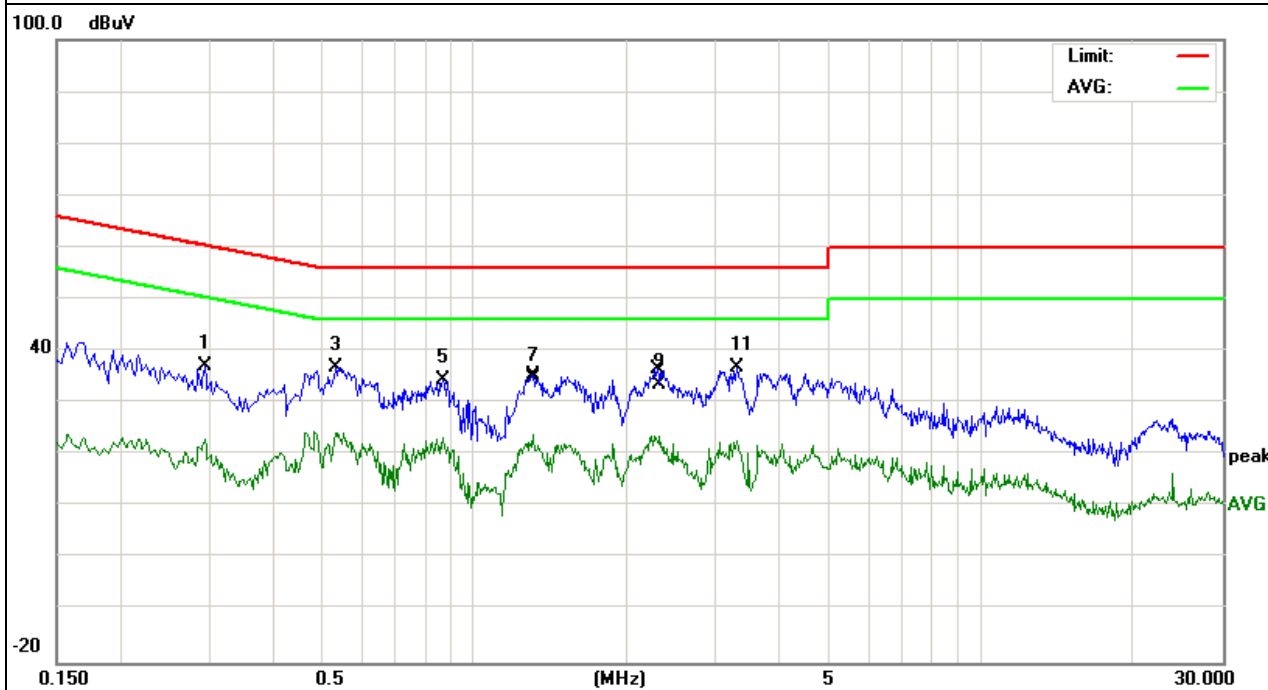


EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2940	27.36	9.73	37.09	60.41	-23.32	QP
0.2940	13.22	9.73	22.95	50.41	-27.46	AVG
0.5340	27.23	9.77	37.00	56.00	-19.00	QP
0.5340	14.50	9.77	24.27	46.00	-21.73	AVG
0.8700	24.75	9.75	34.50	56.00	-21.50	QP
0.8700	13.49	9.75	23.24	46.00	-22.76	AVG
1.3060	25.04	9.71	34.75	56.00	-21.25	QP
1.3060	14.12	9.71	23.83	46.00	-22.17	AVG
2.3260	23.86	9.66	33.52	56.00	-22.48	QP
2.3260	14.11	9.66	23.77	46.00	-22.23	AVG
3.2940	27.06	9.68	36.74	56.00	-19.26	QP
3.2940	13.05	9.68	22.73	46.00	-23.27	AVG

Remark:

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

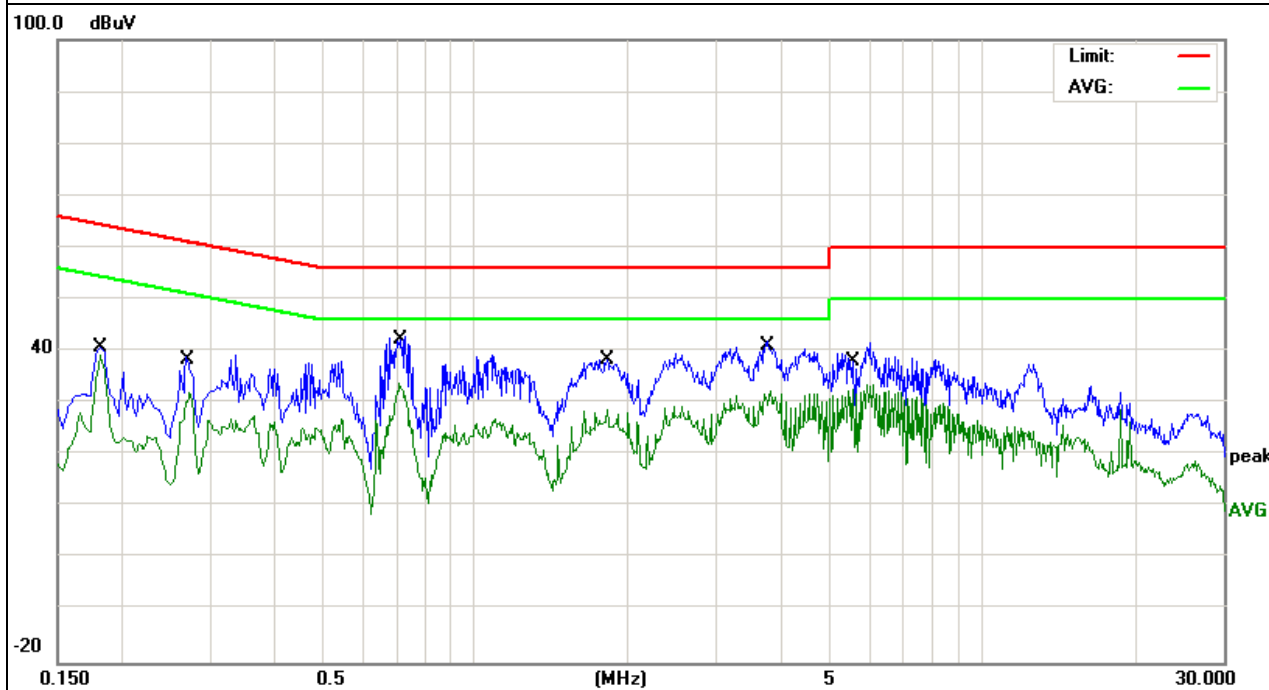


EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1819	31.33	9.54	40.87	64.39	-23.52	QP
0.1819	29.66	9.54	39.20	54.39	-15.19	AVG
0.2740	29.47	9.49	38.96	60.99	-22.03	QP
0.2740	22.64	9.49	32.13	50.99	-18.86	AVG
0.7140	24.22	9.53	33.75	46.00	-12.25	QP
0.7140	32.62	9.53	42.15	56.00	-13.85	AVG
1.8260	28.72	9.55	38.27	56.00	-17.73	QP
1.8260	19.24	9.55	28.79	46.00	-17.21	AVG
3.8300	32.47	9.58	42.05	56.00	-13.95	QP
3.8300	22.76	9.58	32.34	46.00	-13.66	AVG
5.5658	29.50	9.63	39.13	60.00	-20.87	QP
5.5658	22.92	9.63	32.55	50.00	-17.45	AVG

Remark:

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

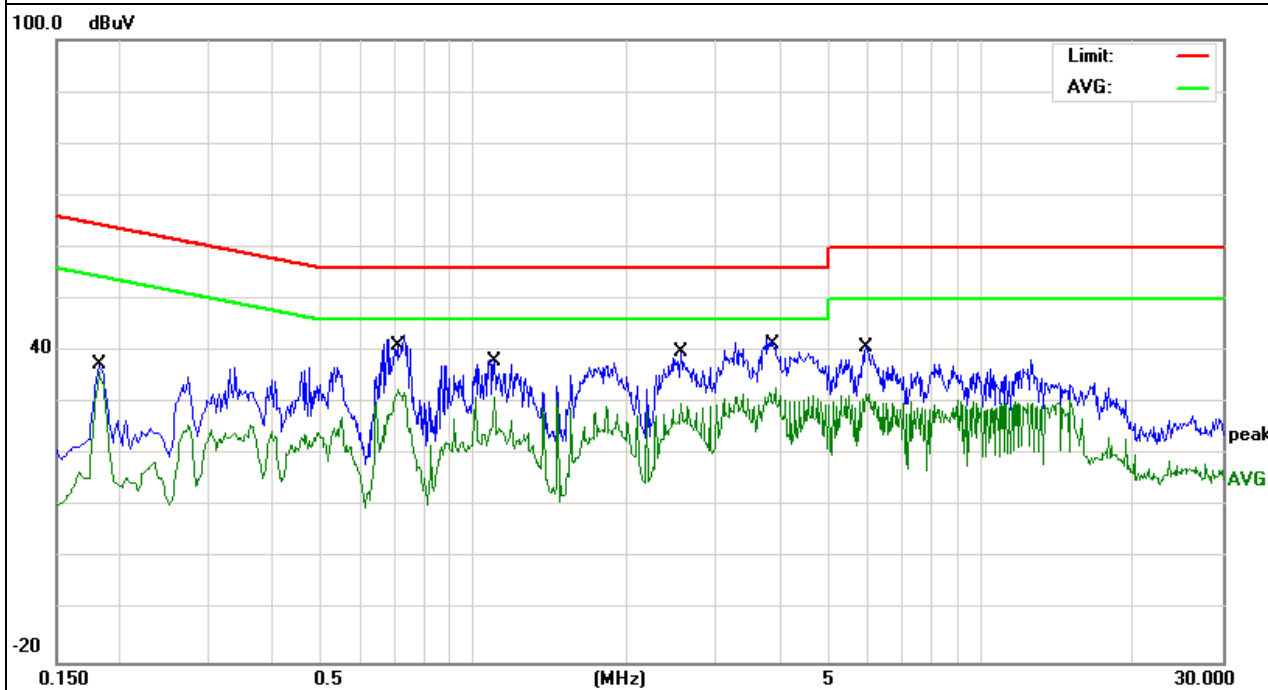


EUT :	Tablet PC	Model Name. :	TBGP
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1819	27.80	9.54	37.34	64.39	-27.05	QP
0.1819	26.27	9.54	35.81	54.39	-18.58	AVG
0.7100	32.61	9.53	42.14	56.00	-13.86	QP
0.7100	23.02	9.53	32.55	46.00	-13.45	AVG
1.0980	28.74	9.53	38.27	56.00	-17.73	QP
1.0980	21.70	9.53	31.23	46.00	-14.77	AVG
2.5579	30.19	9.56	39.75	56.00	-16.25	QP
2.5579	20.35	9.56	29.91	46.00	-16.09	AVG
3.9300	32.96	9.59	42.55	56.00	-13.45	QP
3.9300	23.27	9.59	32.86	46.00	-13.14	AVG
5.9420	29.77	9.64	39.41	60.00	-20.59	QP
5.9420	22.25	9.64	31.89	50.00	-18.11	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.

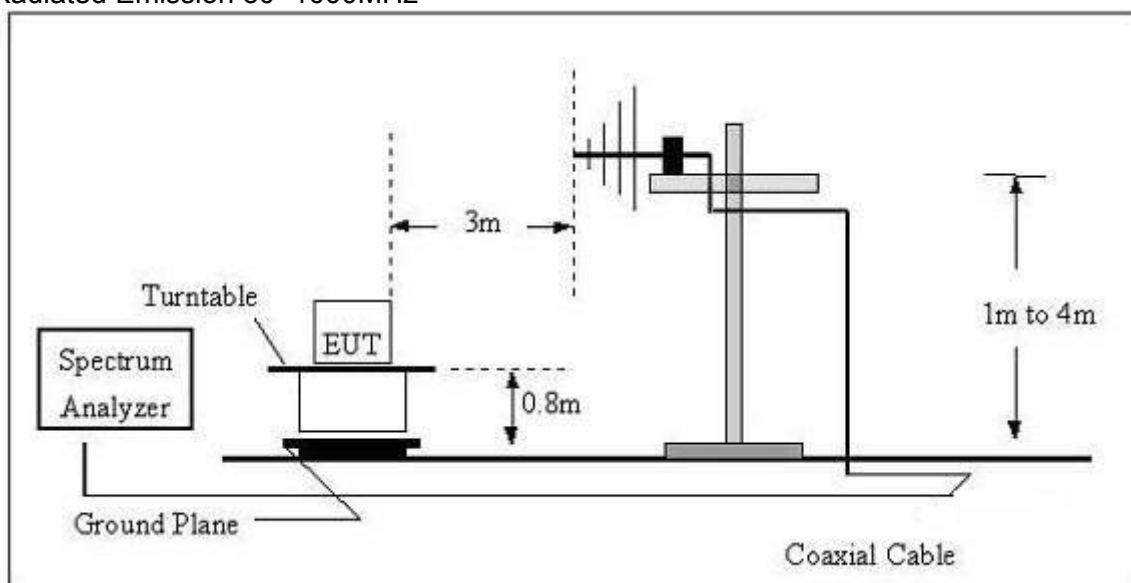
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst

case is recorded in the report
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

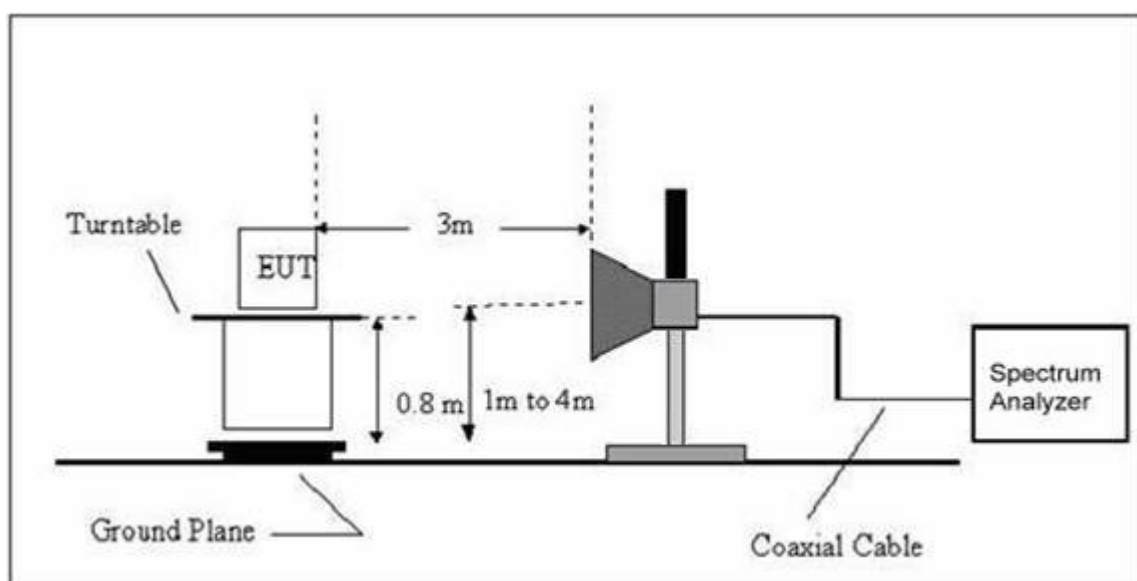
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Peak	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



3.2.4 TEST RESULTS

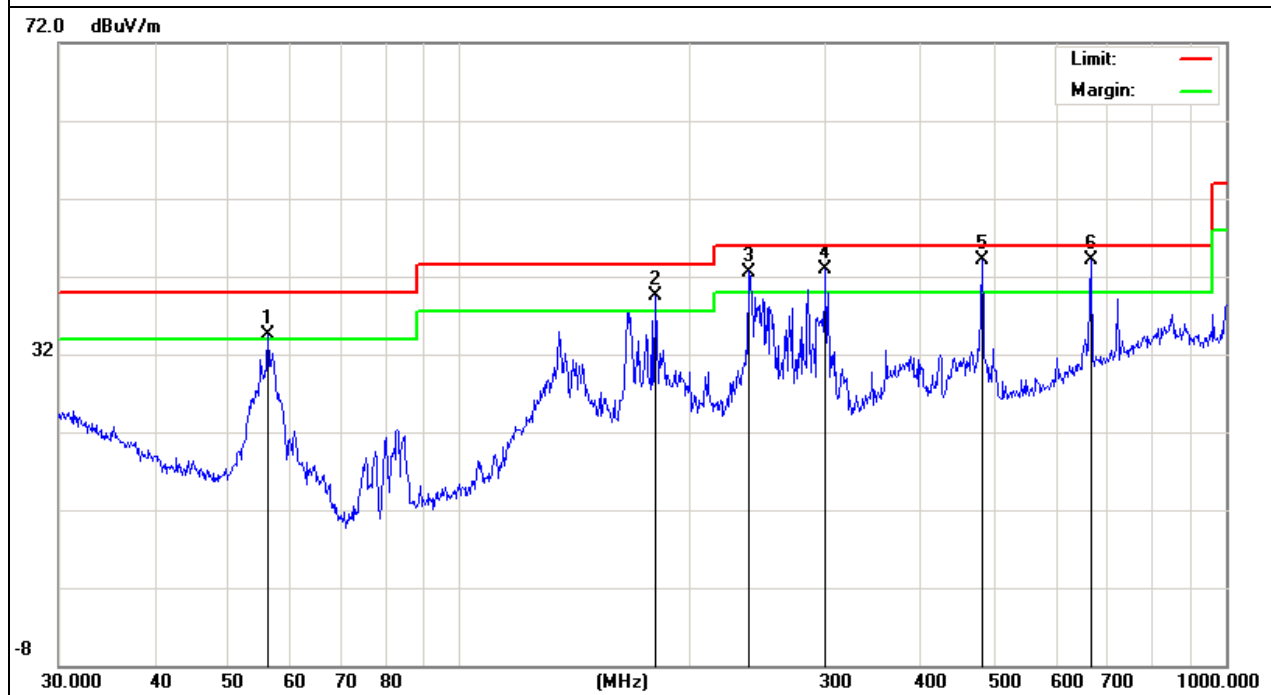
TEST RESULTS (30~1000 MHz)

EUT :	Tablet PC	Model Name :	TBGP
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V From PC AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
56.1974	25.68	8.92	34.60	40.00	-5.40	QP
180.0165	28.78	10.63	39.41	43.50	-4.09	QP
238.3102	29.23	13.37	42.60	46.00	-3.40	QP
300.3672	28.82	14.16	42.98	46.00	-3.02	QP
480.5276	24.19	19.91	44.10	46.00	-1.90	QP
665.8035	20.28	23.85	44.13	46.00	-1.87	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

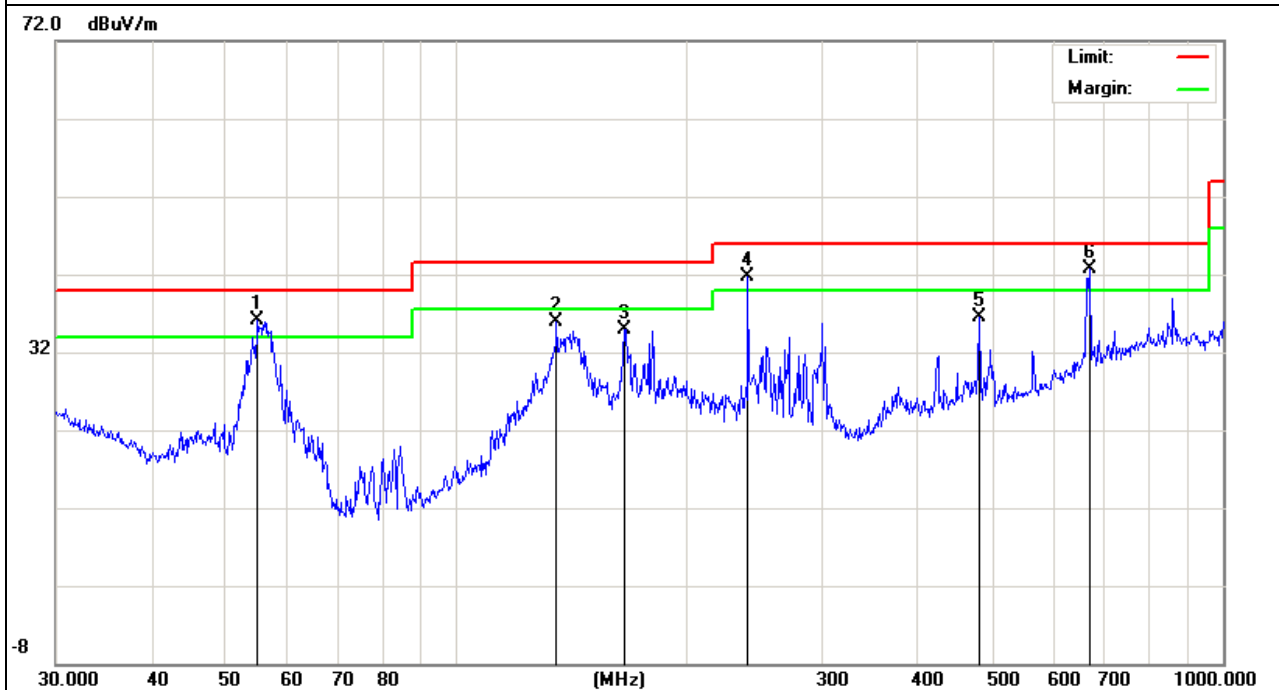


EUT :	Tablet PC	Model Name :	TBGP
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-06-23
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V From PC AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
55.0274	26.93	9.26	36.19	40.00	-3.81	QP
135.0319	24.23	11.65	35.88	43.50	-7.62	QP
165.4866	24.47	10.52	34.99	43.50	-8.51	QP
239.9874	28.22	13.49	41.71	46.00	-4.29	QP
480.5276	16.57	19.91	36.48	46.00	-9.52	QP
670.4893	18.82	23.98	42.80	46.00	-3.20	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~12400MHz)

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1894.621	85.96	-17.15	68.81	74.00	-5.19	peak
V	1894.621	60.82	-17.15	43.67	54.00	-10.33	AVG
V	2657.389	82.37	-15.76	66.61	74.00	-7.39	peak
V	2657.389	59.34	-15.76	43.58	54.00	-10.42	AVG
V	4013.629	76.71	-11.22	65.49	74.00	-8.51	peak
V	4013.629	53.98	-11.22	42.76	54.00	-11.24	AVG
H	1896.351	81.81	-17.14	64.67	74.00	-9.33	peak
H	1896.351	58.40	-17.14	41.26	54.00	-12.74	AVG
H	3116.378	82.03	-15.54	66.49	74.00	-7.51	peak
H	3116.378	58.51	-15.54	42.97	54.00	-11.03	AVG
H	4361.254	75.44	-10.13	65.31	74.00	-8.69	peak
H	4361.254	51.49	-10.13	41.36	54.00	-12.64	AVG

Remark:

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

4. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

