FCC Test Report

FCC ID: 2AKP7SAT01

Product:	Tablet PC
Trade Mark:	MINNO
Model Number:	M09GSAT01
Serial Model:	TVE8901C
Report No.:	NTEK- 2016NT12120527F4

Prepared for

Minno LLC

421 North Milpas Street, Santa Barbara, CA 93103, U.S.A.

Prepared by

NTEK Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name ..... : Minno LLC

Address ..... : 421 North Milpas Street, Santa Barbara, CA 93103, U.S.A.

Manufacturer's Name ..... : Minno LLC

Address ..... : A64, 3/F, Fully Best Bldg, No. 1 Kefa Road, Nanshan, Shenzhen

Product description

Product name..... : Tablet PC

Model and/or type reference : M09GSAT01

Standards..... : FCC Part15B:01 Oct.2016
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.....: 12 Dec. 2016 ~07 Jan. 2017

Date of Issue.....: 07 Jan. 2017

Test Result.....: **Pass**

Testing Engineer : Susan Su

(Susan Su)

Technical Manager : Jason Chen

(Jason Chen)

Authorized Signatory : Sam. Chen

(Sam Chen)

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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** ± **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

<table>
<tr><td>Equipment</td><td>Tablet PC</td></tr>
<tr><td>Trade Mark</td><td>MINNO</td></tr>
<tr><td>Model Name</td><td>M09GSAT01</td></tr>
<tr><td>Serial Model</td><td>TVE8901C</td></tr>
<tr><td>Model Difference</td><td>All the model are the same circuit and RF module,
except the model No. and colour.</td></tr>
<tr><td>Product Description</td><td>The EUT is a Tablet PC.

<table><tr><td>Connecting I/O port:</td><td>USB, DC in</td></tr><tr><td>Operation Frequency:</td><td>BT:2402~2480 MHz
WIFI:802.11b/g/n(20MHz): 2412~2462MHz
802.11n(40MHz):2422~2452MHz
5.2 WIFI: 5180-5240MHz for
802.11a/n(HT20)/AC20;
5190-5230MHz for 802.11n(HT40)/AC40;
5210MHz for 802.11 AC80
5.8 WIFI: 5745-5825 MHz for
802.11a/n(HT20)/AC20;
5755-5795 MHz for 802.11a/n(HT40)/AC40;
5775MHz for 802.11 AC80</td></tr><tr><td>Modulation Type:</td><td>BT(1Mbps)/BLE: GFSK
BT EDR(2Mbps): π/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)
OFDM with
BPSK/QPSK/16QAM/64QAM/256QAM
for 802.11a/n/ac</td></tr></table></td></tr>
<tr><td>Power Source</td><td>DC Voltage: DC 3.8V/3400mAh from Battery or DC 5V from Adapter.</td></tr>
<tr><td>Adapter</td><td>Model:TPA-46050200UU
Input:100-240V 50/60Hz 0.3A
Output:5V,2000mA</td></tr>
<tr><td>Battery</td><td>DC 3.8V, 3400mAh</td></tr>
<tr><td>HW Version</td><td>TVE1017C-V1.1</td></tr>
<tr><td>SW Version</td><td>TVE8901C_MINNO_GT9XX_OV2680_OV5648_intel3165_2EFC90AD_20161202_V1.19.1</td></tr>
</table>

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.

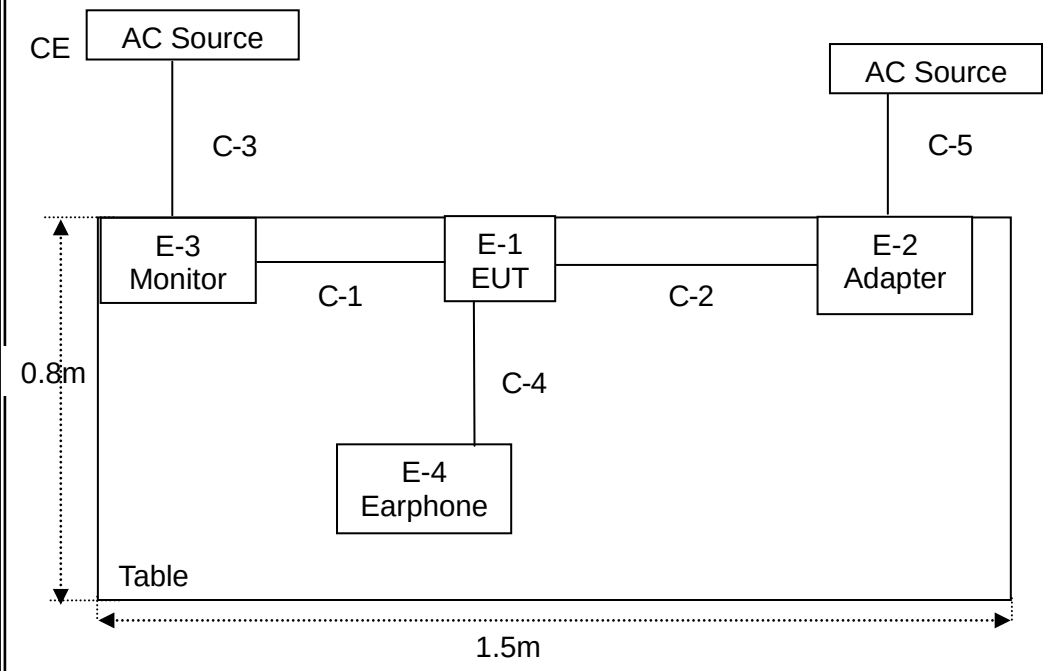
Pretest Mode	Description
Mode 1	USB
Mode 2	REC
Mode 3	BT
Mode 4	2.4G/5GWIFI
Mode 5	TF CARD

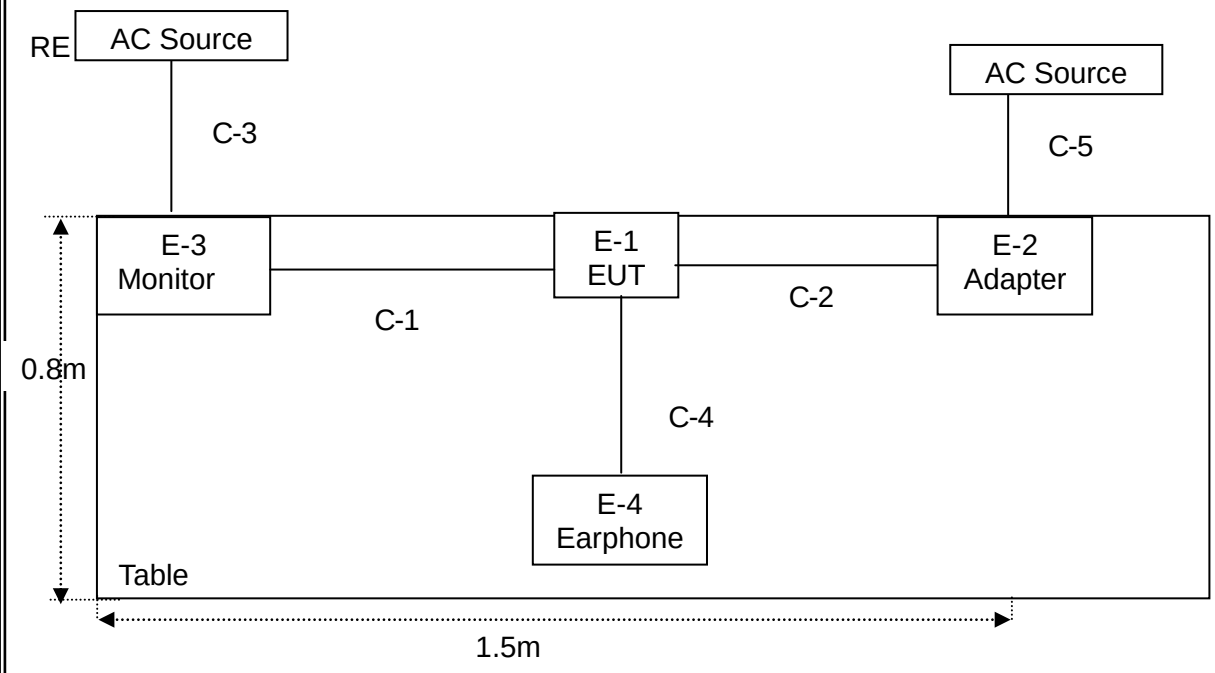
For Conducted Test	
Final Test Mode	Description
Mode 1	USB
Mode 2	REC
Mode 3	BT
Mode 4	WIFI
Mode 5	TF CARD

For Radiated Test	
Final Test Mode	Description
Mode 1	USB
Mode 2	REC
Mode 3	BT
Mode 4	2.4G/5GWIFI
Mode 5	TF CARD

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst 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	MINNO	M09GSAT01	N/A	EUT
E-2	Adapter	N/A	TPA-46050200UU	N/A	
E-3	Monitor	SONY	IN2020MB	cn-0y6mhx-74261-11f-67e s	Peripherals
E-4	Earphone	N/A	L662	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	Power Cable	NO	NO	1.2m	
C-3	AC Cable	NO	NO	1.5m	
C-4	Earphone	NO	NO	0.8m	
C-5	AC Cable	NO	NO	1.5m	

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

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	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.

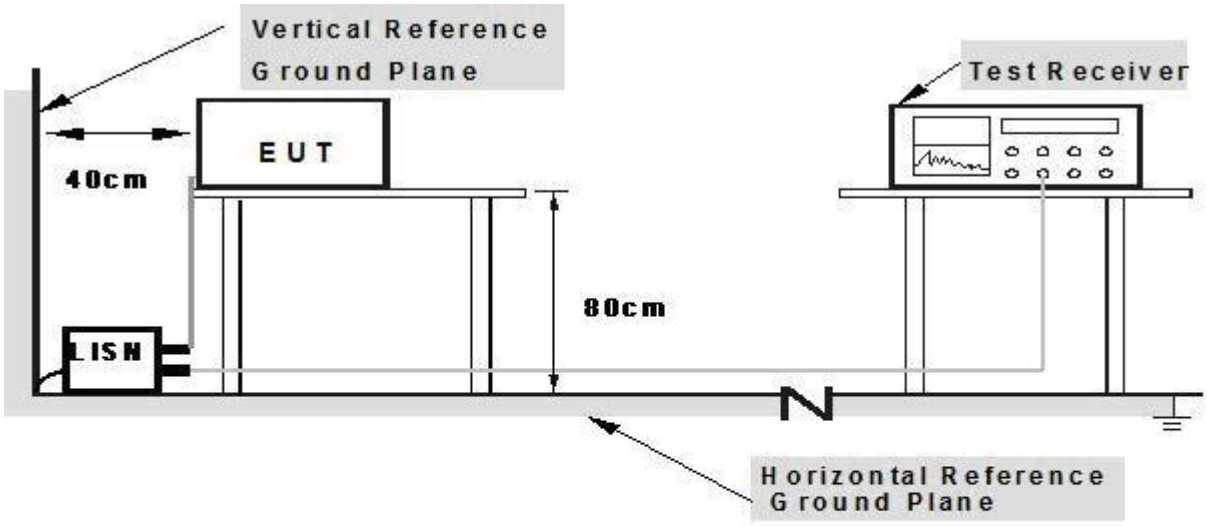
The following table is the setting of the receiver

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 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.

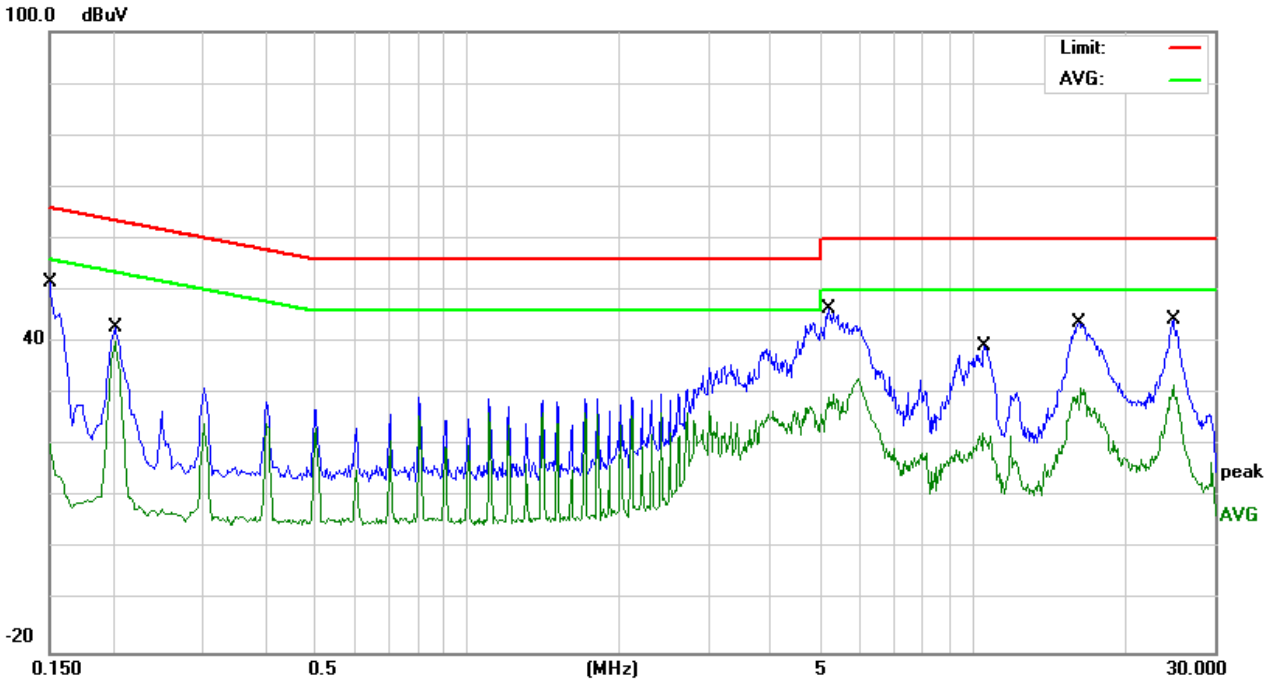
3.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name. :	M09GSAT01
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-12-12
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1499	41.32	10.13	51.45	66.00	-14.55	QP
0.1499	10.26	10.13	20.39	56.00	-35.61	AVG
0.202	32.68	10.17	42.85	63.52	-20.67	QP
0.202	29.94	10.17	40.11	53.52	-13.41	AVG
5.1779	36.8	9.8	46.6	60.00	-13.40	QP
5.1779	17.62	9.8	27.42	50.00	-22.58	AVG
10.5498	29.3	9.87	39.17	60.00	-20.83	QP
10.5498	12.72	9.87	22.59	50.00	-27.41	AVG
16.1419	33.82	10.01	43.83	60.00	-16.17	QP
16.1419	21.08	10.01	31.09	50.00	-18.91	AVG
24.898	34.29	10.09	44.38	60.00	-15.62	QP
24.898	21.65	10.09	31.74	50.00	-18.26	AVG

Remark:

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

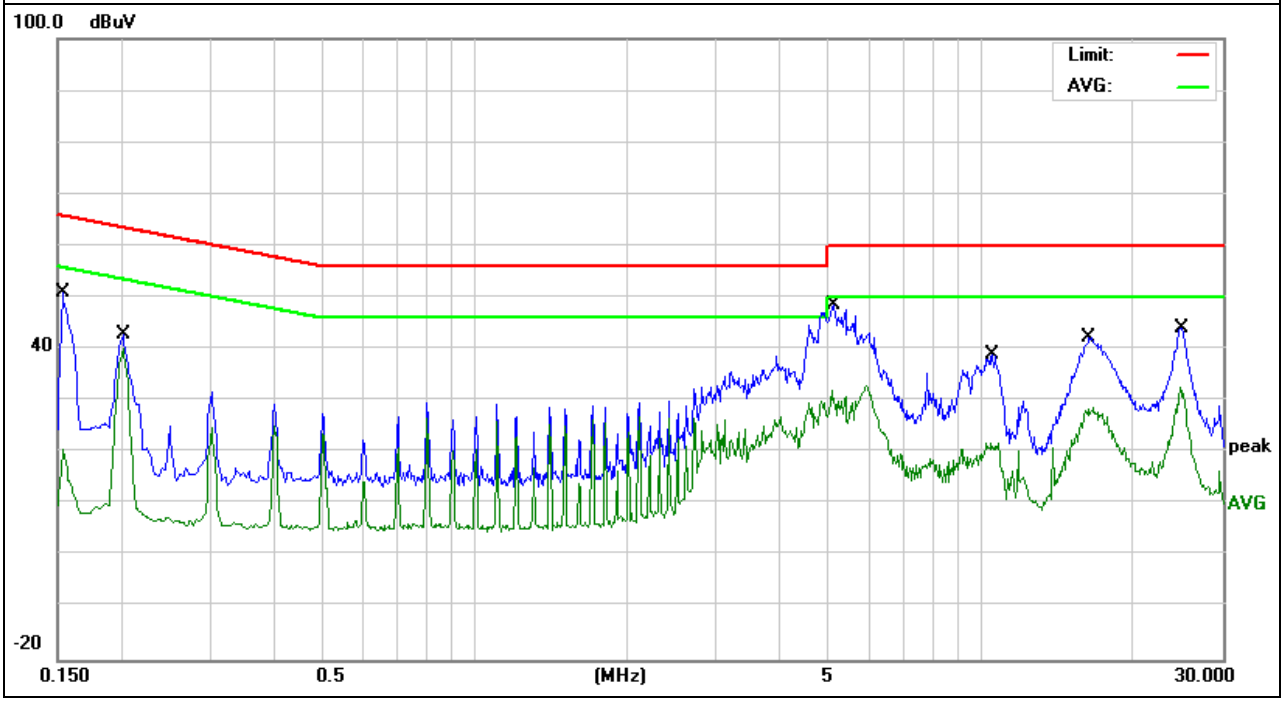


EUT:	Tablet PC	Model Name. :	M09GSAT01
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-12-12
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	40.85	10.07	50.92	65.78	-14.86	QP
0.1539	10.64	10.07	20.71	55.78	-35.07	AVG
0.202	32.65	10.13	42.78	63.52	-20.74	QP
0.202	30.09	10.13	40.22	53.52	-13.30	AVG
5.1379	38.89	9.81	48.7	60.00	-11.30	QP
5.1379	22.24	9.81	32.05	50.00	-17.95	AVG
10.526	29.15	9.89	39.04	60.00	-20.96	QP
10.526	12.07	9.89	21.96	50.00	-28.04	AVG
16.314	32.29	10	42.29	60.00	-17.71	QP
16.314	18.88	10	28.88	50.00	-21.12	AVG
24.858	33.98	10.16	44.14	60.00	-15.86	QP
24.858	22.39	10.16	32.55	50.00	-17.45	AVG

Remark:

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

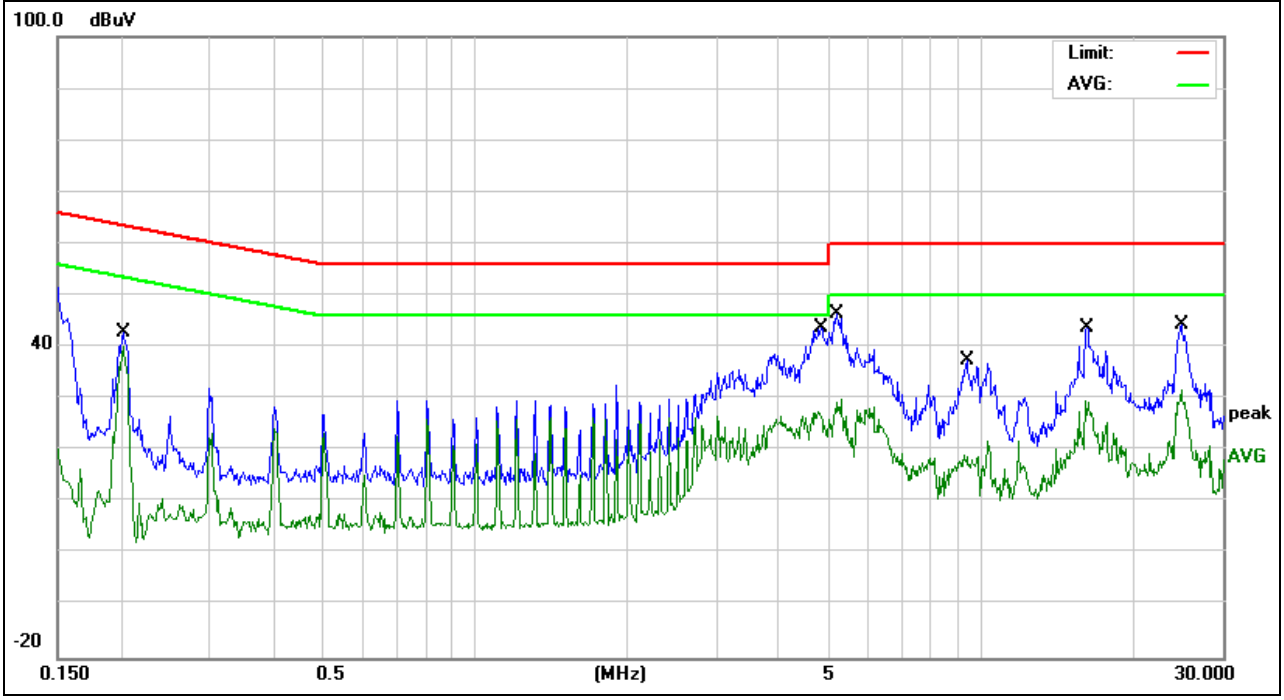


EUT:	Tablet PC	Model Name. :	M09GSAT01
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-12-12
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.202	32.68	10.17	42.85	63.52	-20.67	QP
0.202	28.84	10.17	39.01	53.52	-14.51	AVG
4.8459	33.9	9.8	43.7	56.00	-12.30	QP
4.8459	16.79	9.8	26.59	46.00	-19.41	AVG
5.1779	36.8	9.8	46.6	60.00	-13.40	QP
5.1779	17.62	9.8	27.42	50.00	-22.58	AVG
9.3817	27.5	9.87	37.37	60.00	-22.63	QP
9.3817	7.46	9.87	17.33	50.00	-32.67	AVG
16.1417	33.82	10.01	43.83	60.00	-16.17	QP
16.1417	16.98	10.01	26.99	50.00	-23.01	AVG
24.8978	34.29	10.09	44.38	60.00	-15.62	QP
24.8978	19.82	10.09	29.91	50.00	-20.09	AVG

Remark:

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

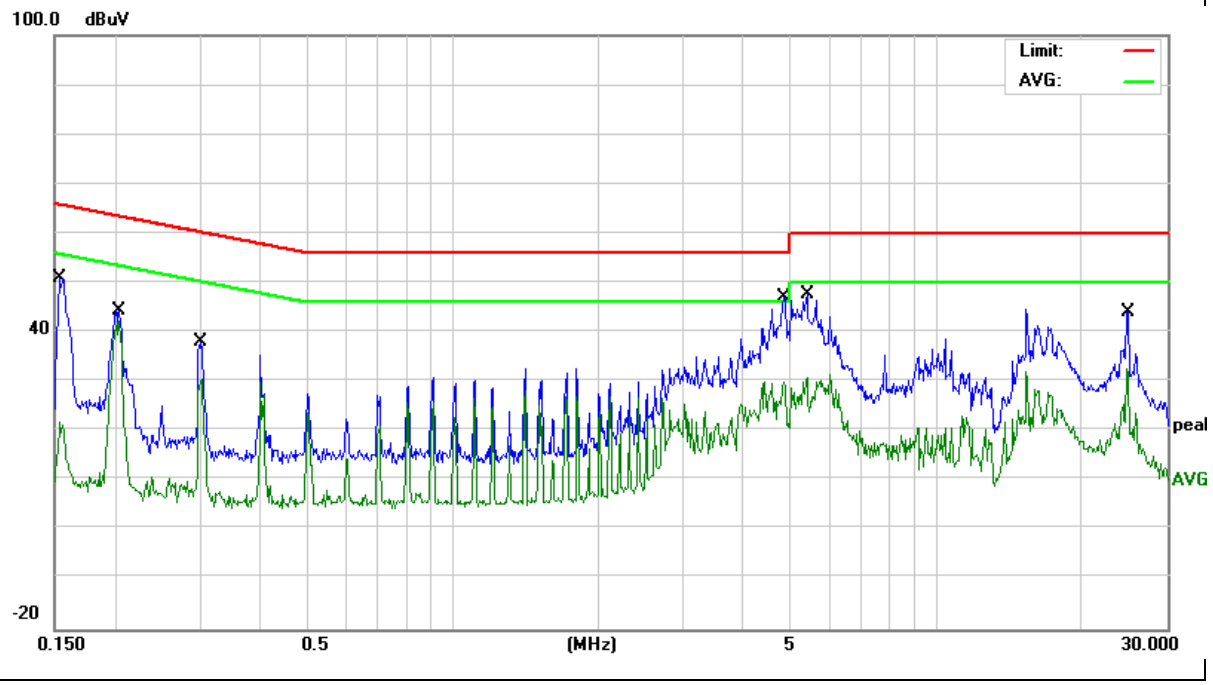


EUT:	Tablet PC	Model Name. :	M09GSAT01
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-12-12
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	40.93	10.07	51	65.78	-14.78	QP
0.1539	11.81	10.07	21.88	55.78	-33.90	AVG
0.2038	34.27	10.13	44.4	63.45	-19.05	QP
0.2038	28.34	10.13	38.47	53.45	-14.98	AVG
0.3002	27.98	10.12	38.1	60.23	-22.13	QP
0.3002	18.35	10.12	28.47	50.23	-21.76	AVG
4.8258	37.39	9.81	47.2	56	-8.8	QP
4.8258	20.13	9.81	29.94	46.00	-16.06	AVG
5.4019	37.99	9.81	47.8	60.00	-12.20	QP
5.4019	20.34	9.81	30.15	50.00	-19.85	AVG
24.858	33.98	10.16	44.14	60.00	-15.86	QP
24.858	20.66	10.16	30.82	50.00	-19.18	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.

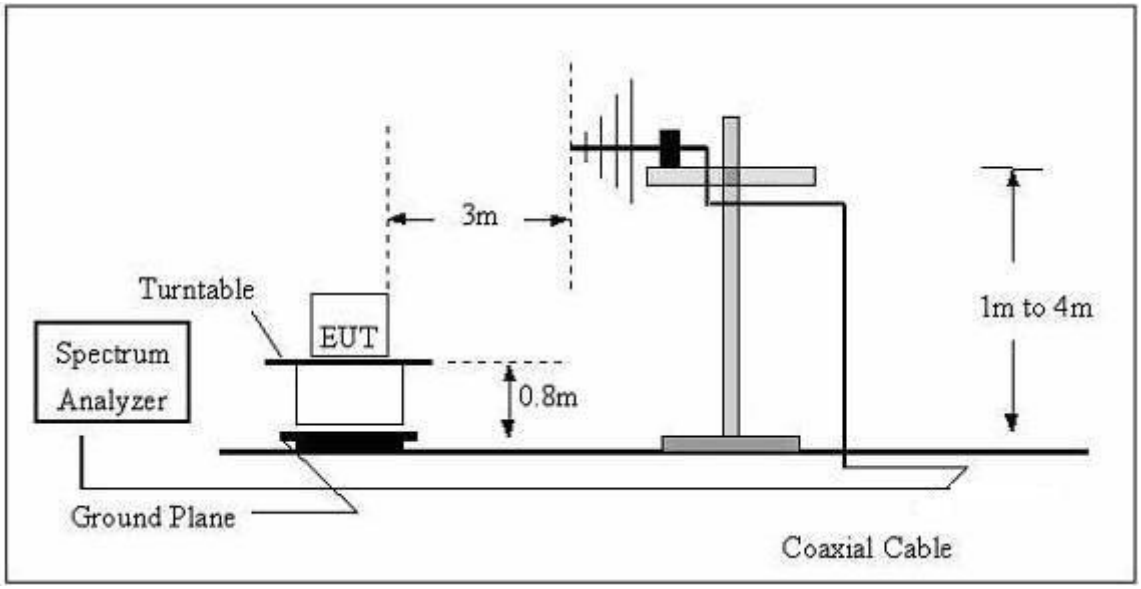
Note：For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

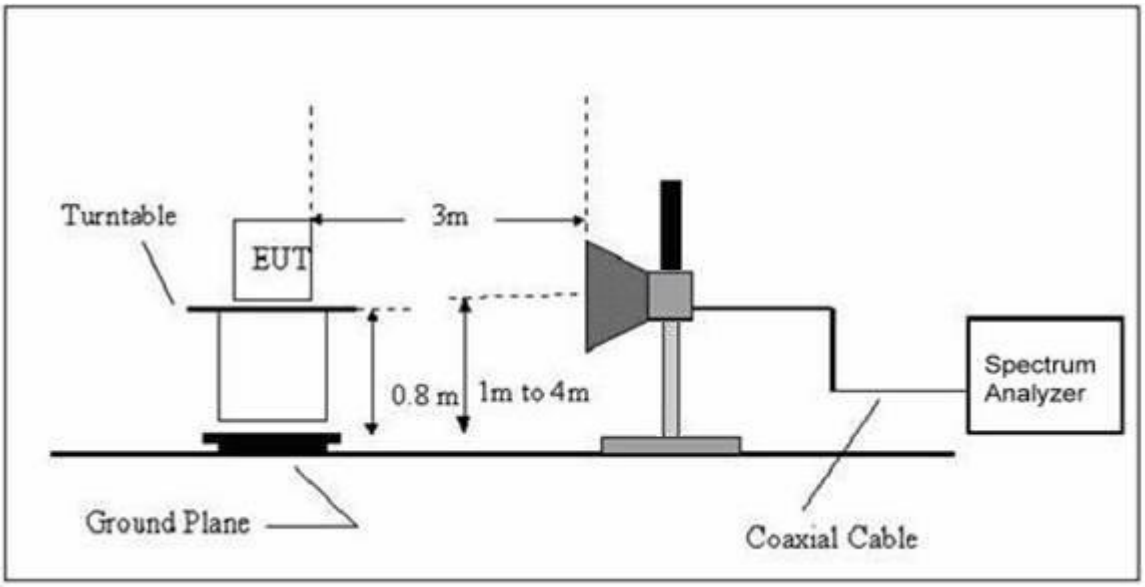
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



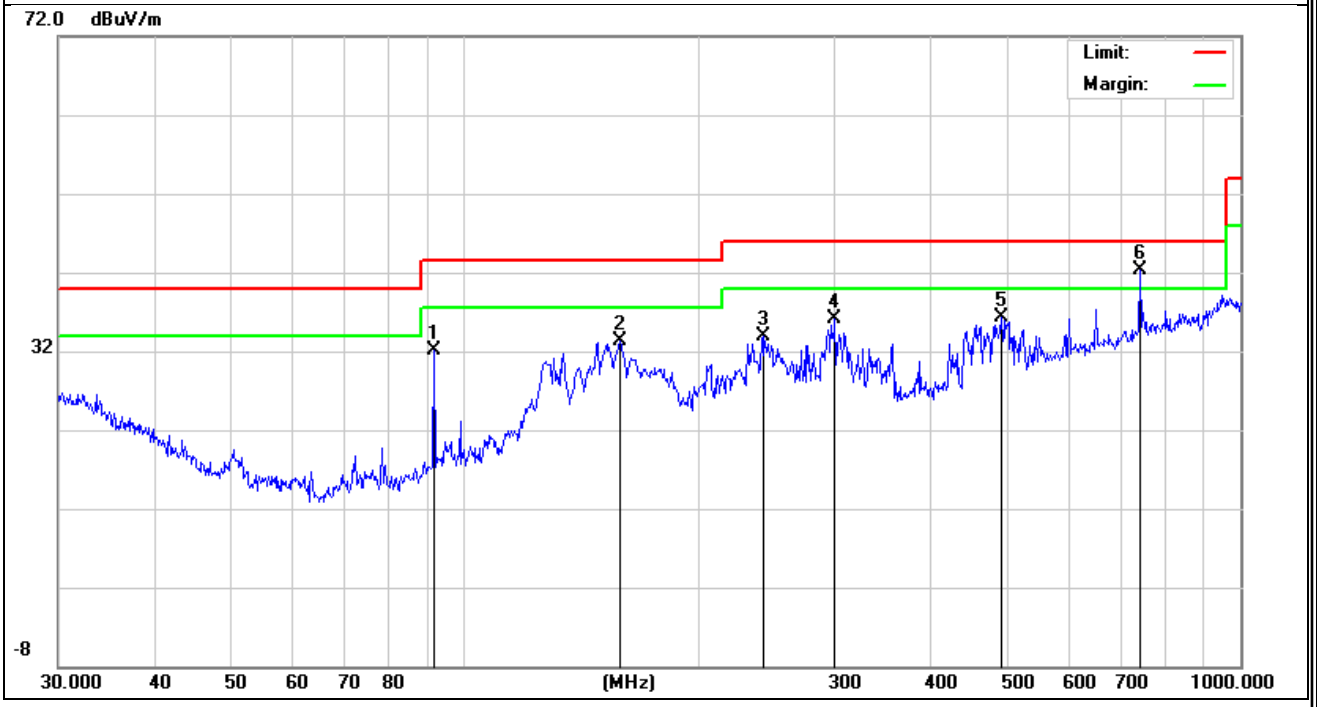
3.2.4 TEST RESULTS

TEST RESULTS (30~1000 MHz)

EUT:	Tablet PC	Model Name:	M09GSAT01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-12-12
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from Adapter AC 120V/60Hz		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	91.4949	21.15	10.9	32.05	43.5	-11.45	QP
H	158.6673	20.96	12.29	33.25	43.5	-10.25	QP
H	242.5252	20.28	13.72	34	46	-12	QP
H	300.3672	19.76	16.29	36.05	46	-9.95	QP
H	492.4685	15.01	21.29	36.3	46	-9.7	QP
H	742.2586	14.97	27.34	42.31	46	-3.69	QP

Remark:
Factor = Antenna Factor + Cable Loss - Amplifier.

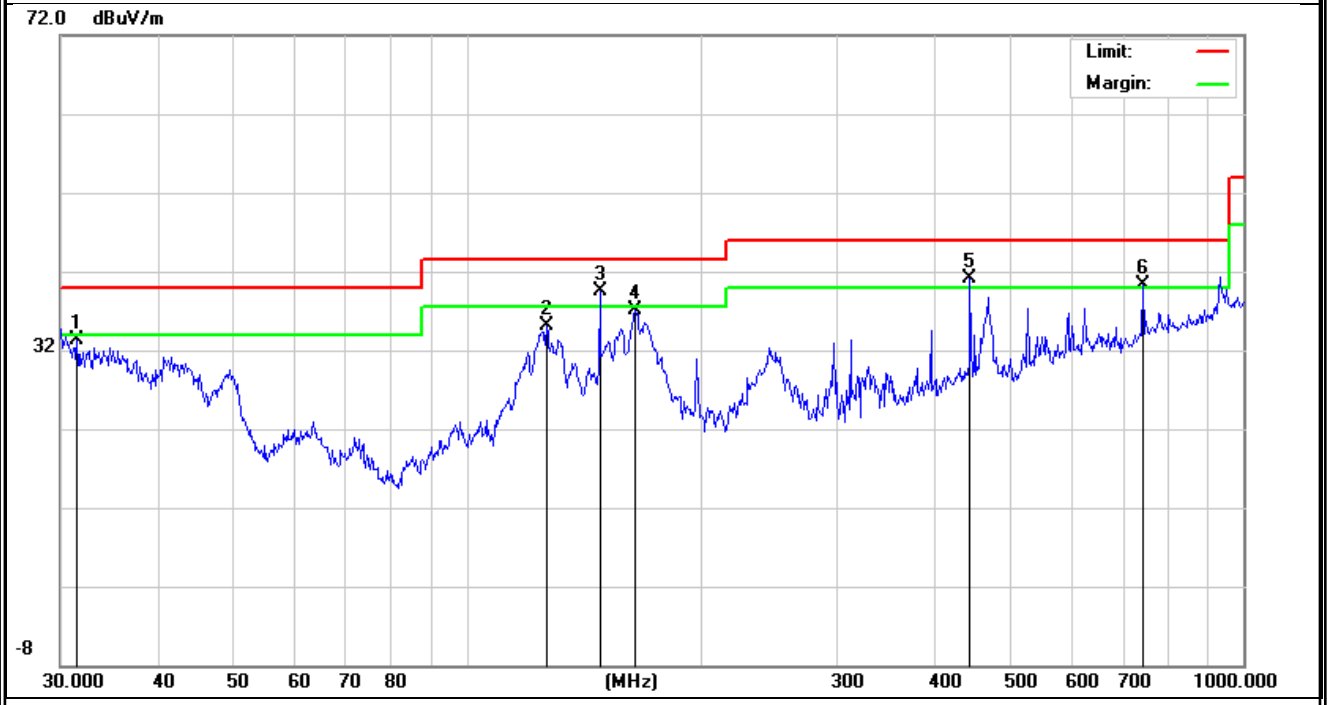


EUT:	Tablet PC	Model Name :	M09GSAT01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-12-12
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from Adapter AC 120V/60Hz		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	31.5092	14.22	19.08	33.3	40	-6.7	QP
V	126.7723	21.52	13.52	35.04	43.5	-8.46	QP
V	148.441	26.51	13.04	39.55	43.5	-3.95	QP
V	164.9072	25.15	11.87	37.02	43.5	-6.48	QP
V	444.8514	20.24	20.83	41.07	46	-4.93	QP
V	742.2586	12.89	27.34	40.23	46	-5.77	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~25000MHz)

EUT:	Tablet PC	Model Name :	M09GSAT01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-12-12
Test Mode :	Mode 1		
Test Power :	DC 5V from Adapter AC 120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

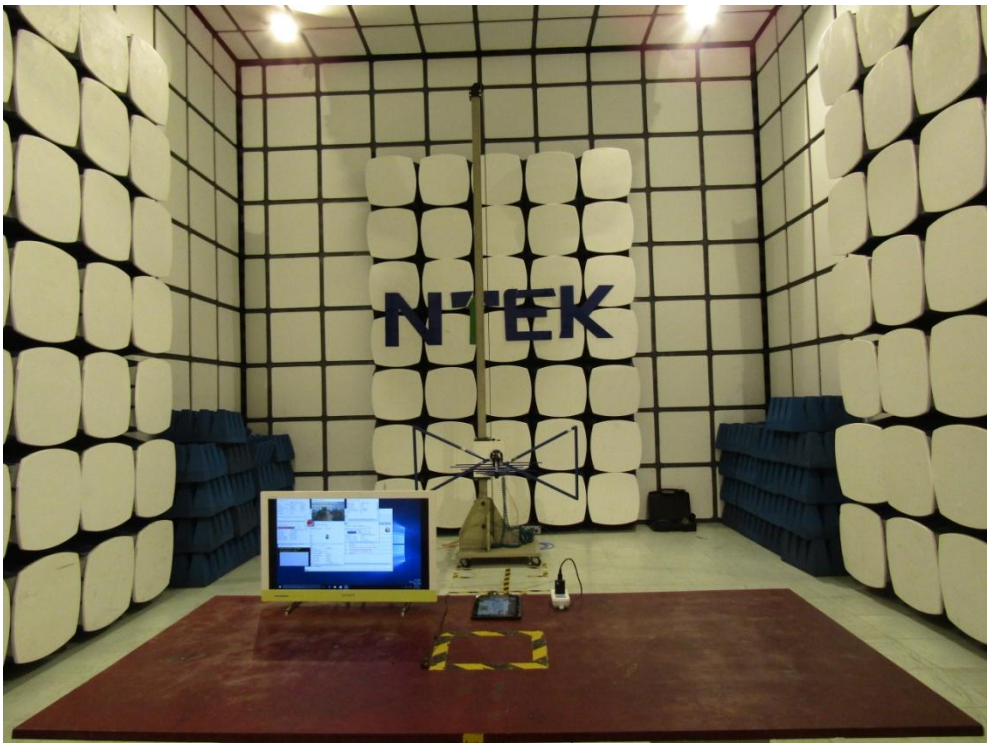
Polar (H/V)	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
V	1593.4	55.59	-13	42.33	74	-31.67	Pk
V	1593.4	34.95	-13	21.69	54	-32.31	AV
V	1796.6	53.03	-12	40.6	74	-33.4	Pk
V	1796.6	35.46	-12	23.03	54	-30.97	AV
H	1438.7	55.1	-13	41.7	74	-32.3	Pk
H	1438.7	34.28	-13	20.88	54	-33.12	AV
H	1678.4	54.31	-13	41.49	74	-32.51	Pk
H	1678.4	35.68	-13	22.86	54	-31.14	AV

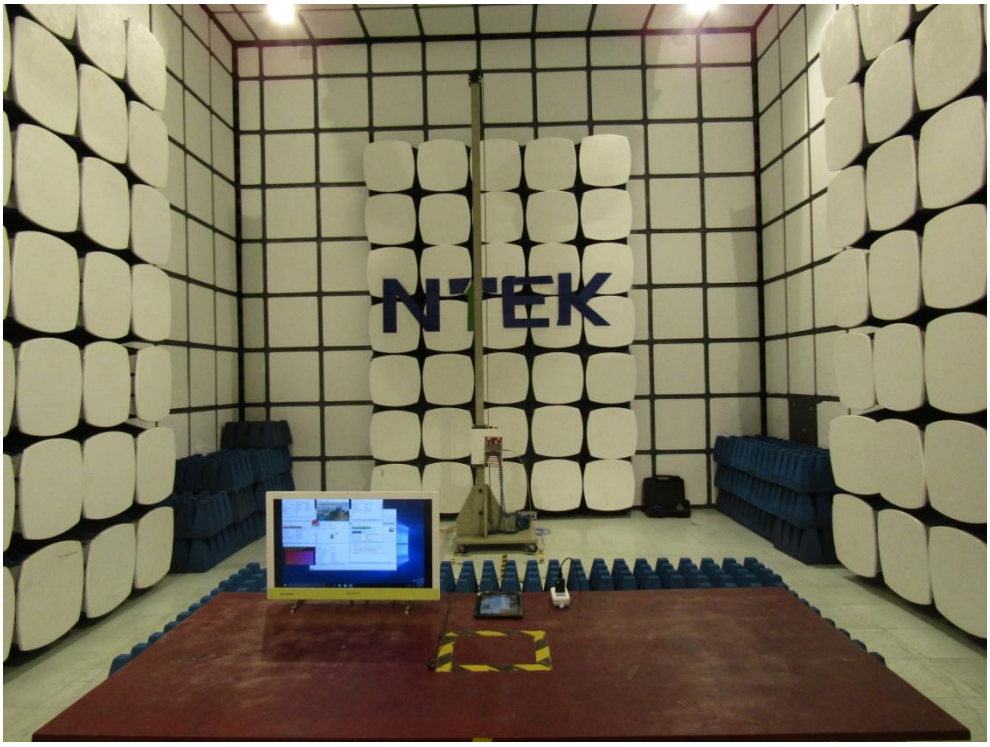
Remark:
Emission Level = Read Level+Antenna Factor + Cable Loss - Amplifier.
Margin= Emission Level-Limits

Note:
1. Measuring frequencies from 1 GHz to 13GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using
Peak detector mode of the emission shown in Actual FS column.
3. The frequency that above 3GHz is mainly from the environment noise

4. EUT TEST PHOTO

Radiated Measurement Photos





Conducted Measurement Photos