FCC Test Report

FCC ID: Q6I-SUPERSM708

Product：	Tablet PC
Trade Name：	Superinworld
Model Number：	SM708
Serial Model：	N/A
Report No.：	NTEK-2015NT09302780F1

Prepared for

Superinworld Technology Co., Ltd.

Room 1107-1109 Jueshi Building Jiabin Road, Luohu District, Shenzhen City,Guangdong Province,China

Prepared by

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Website: www.ntek.org.cn

TEST RESULT CERTIFICATION

Applicant's name	:	Superinworld Technology Co., Ltd.
Address	:	Room 1107-1109 Jueshi Building Jiabin Road, Luohu District, Shenzhen City,Guangdong Province,China
Manufacturer's Name	:	Superinworld Technology Co., Ltd.
Address	:	Room 1107-1109 Jueshi Building Jiabin Road, Luohu District, Shenzhen City,Guangdong Province,China

Product description

Product name	:	Tablet PC
Model and/or type reference	:	SM708
Standards	:	FCC Part15B:01 Oct.2015 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	:	30 Sep. 2015 ~14 Oct. 2015
Date of Issue	:	14 Oct. 2015
Test Result	:	**Pass**

Testing Engineer : Eileen Liu.
(Eileen Liu)

Technical Manager : Brown Lu
(Brown Lu)

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 Name</td><td>Superinworld</td></tr>
<tr><td>Model Name</td><td>SM708</td></tr>
<tr><td>Serial Model</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</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
GSM: 824.2-848.8MHz/1850.2-1909.8MHz
WCDMA: 826.4-846.6MHz/
1852.4-1907.6MHz</td></tr><tr><td>Modulation Type:</td><td>BT(1Mbps): 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)
GSM / DCS: GMSK
WCDMA:QPSK</td></tr></table></td></tr>
<tr><td>Power Source</td><td>DC Voltage</td></tr>
<tr><td>Adapter</td><td>Mode:SM708
Input: 100-240V~, 50/60Hz, 0.5A Max
Output: 5V ⎓, 2A</td></tr>
<tr><td>Battery</td><td>DC 3.7V,2800mAh</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	Downloading Mode
Mode 2	GPS Mode
Mode 3	TF Card Playing Mode+Charging
Mode 4	Camera Mode

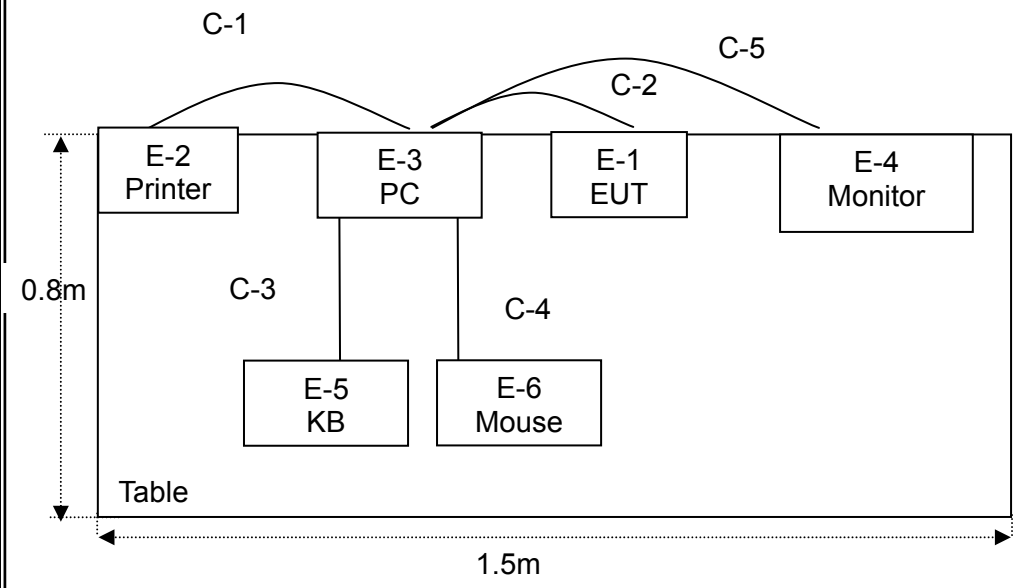
For Conducted Test	
Final Test Mode	Description
Mode 1	Downloading Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	Downloading Mode

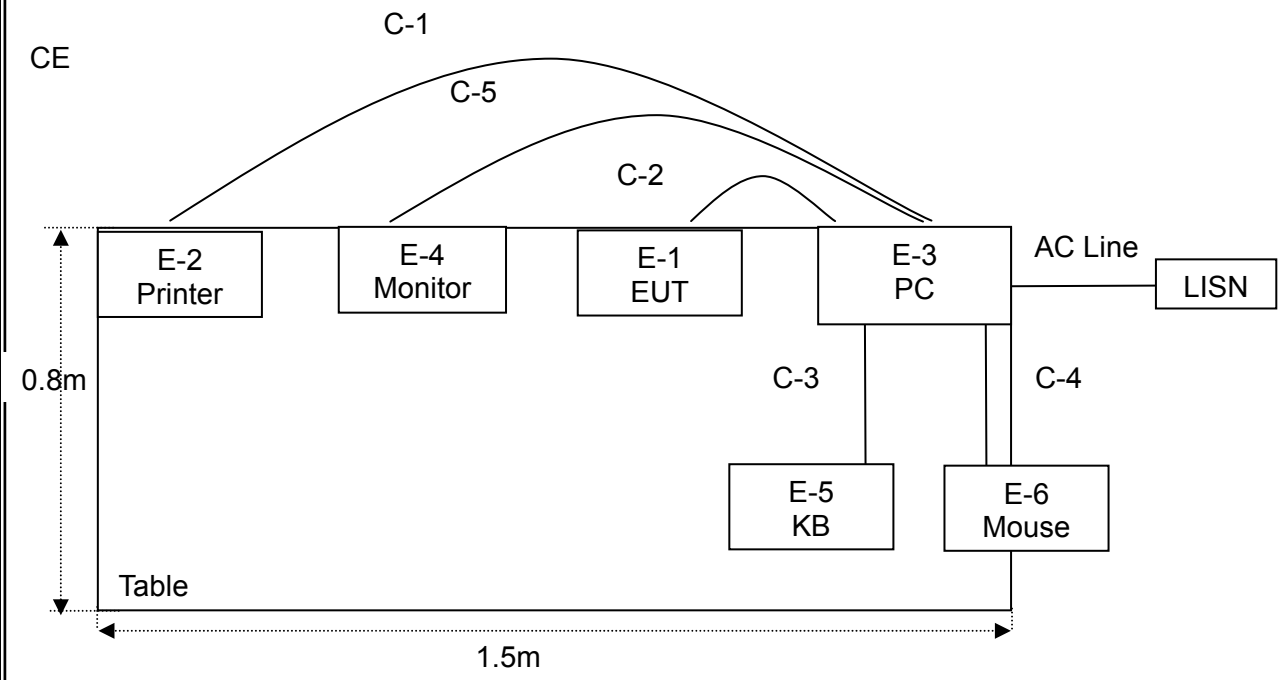
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worse case.
Only the worst case mode is recorded in the report.

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	Superinworld	SM708	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

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	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	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	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.

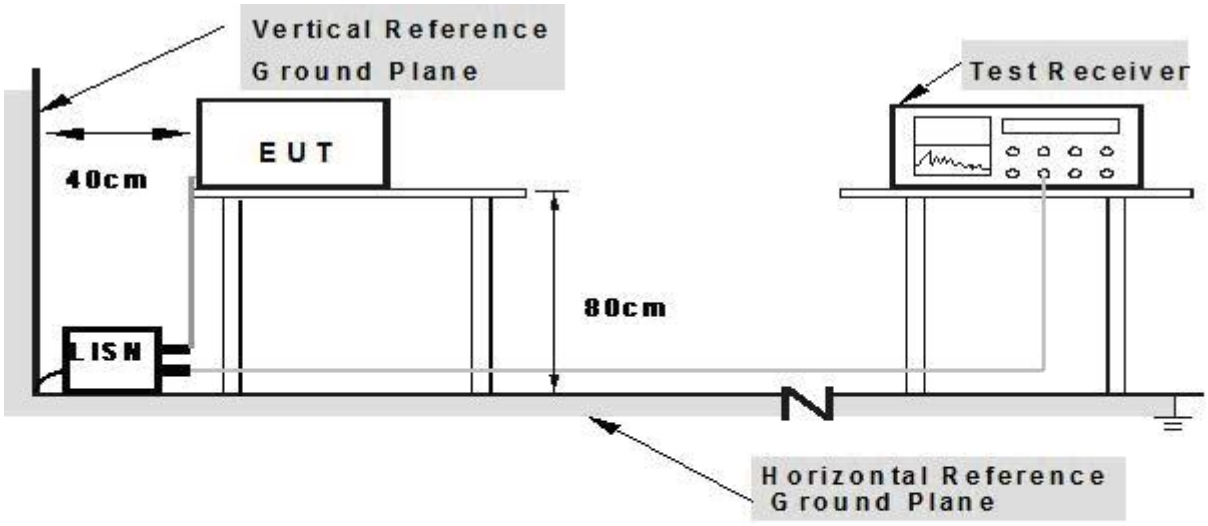
The following table is the setting of the receiver

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.

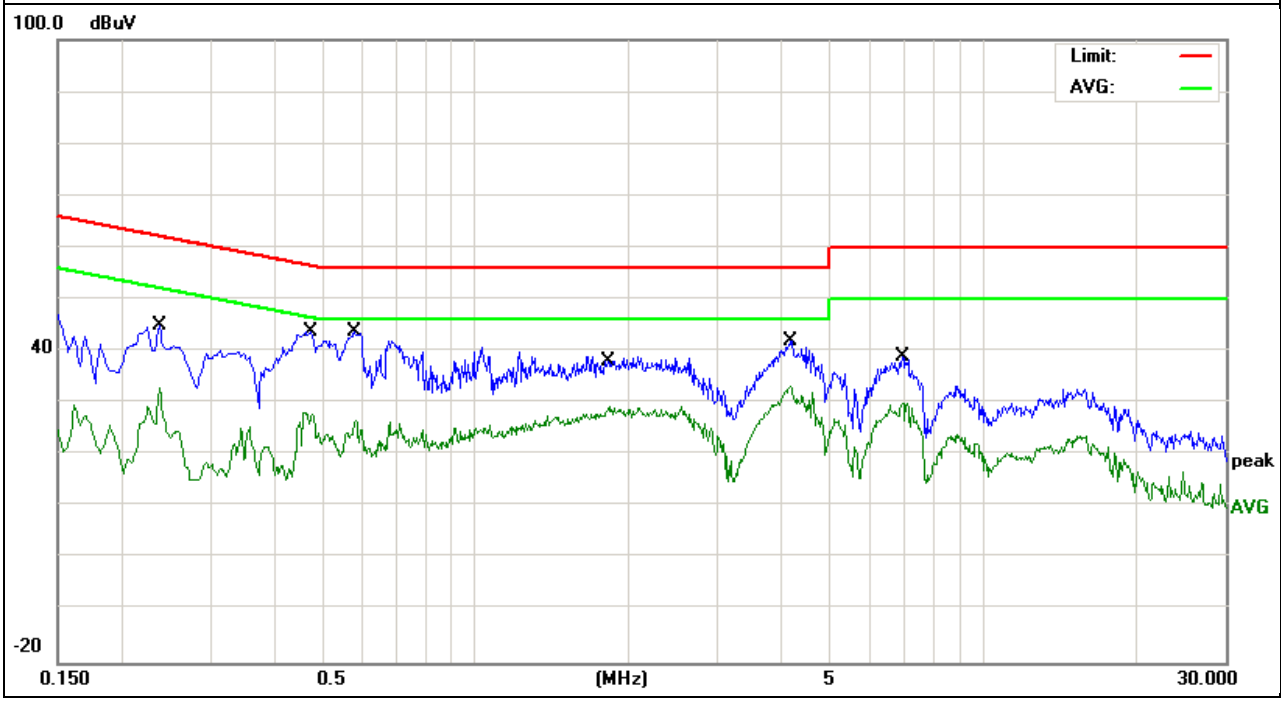
3.1.5 TEST RESULTS

EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
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)	
0.2379	35.44	9.61	45.05	62.17	-17.12	QP
0.2379	23.47	9.61	33.08	52.17	-19.09	AVG
0.4740	34.10	9.66	43.76	56.44	-12.68	QP
0.4740	18.59	9.66	28.25	46.44	-18.19	AVG
0.5779	34.00	9.66	43.66	56.00	-12.34	QP
0.5779	16.88	9.66	26.54	46.00	-19.46	AVG
1.8300	29.36	9.55	38.91	56.00	-17.09	QP
1.8300	19.70	9.55	29.25	46.00	-16.75	AVG
4.1779	32.49	9.51	42.00	56.00	-14.00	QP
4.1779	23.82	9.51	33.33	46.00	-12.67	AVG
6.9538	29.50	9.51	39.01	60.00	-20.99	QP
6.9538	20.39	9.51	29.90	50.00	-20.10	AVG

Remark:

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

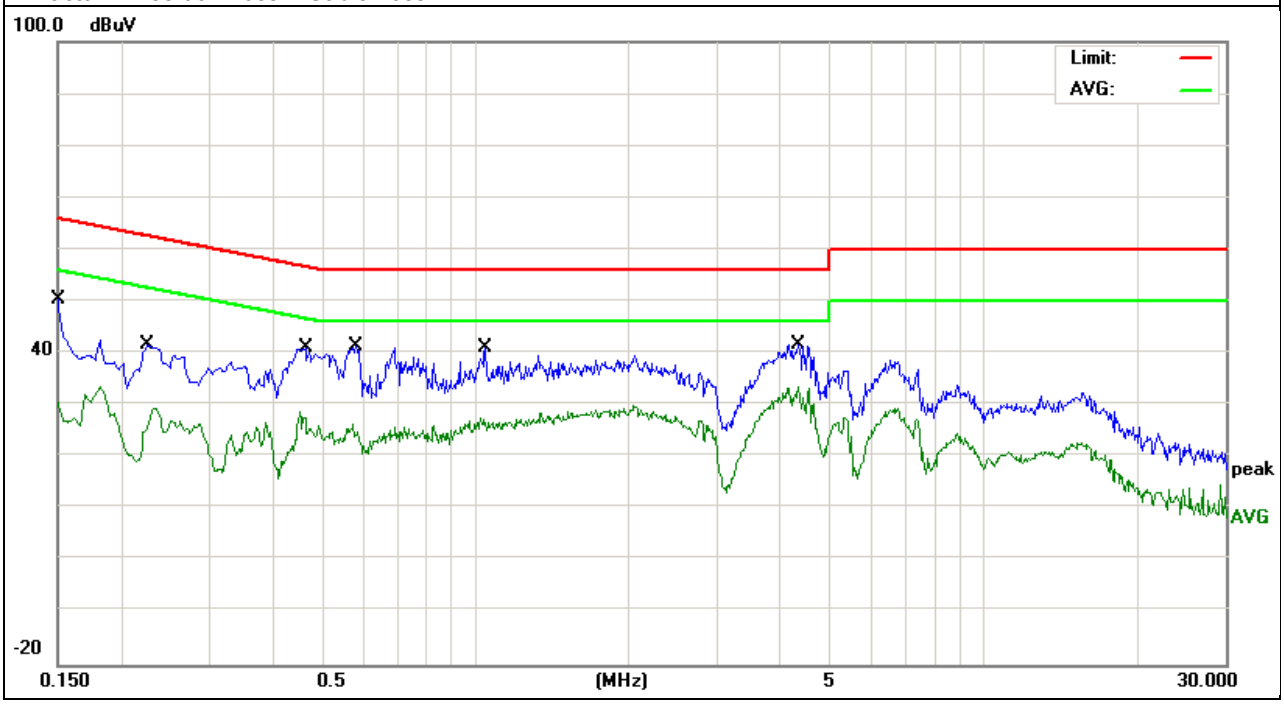


EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
Test Mode：	Mode 1	Phase：	N
Test Voltage ：	DC 5V From PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1500	40.67	9.60	50.27	65.99	-15.72	QP
0.1500	21.01	9.60	30.61	55.99	-25.38	AVG
0.2260	31.99	9.61	41.60	62.59	-20.99	QP
0.2260	19.87	9.61	29.48	52.59	-23.11	AVG
0.4620	31.35	9.66	41.01	56.66	-15.65	QP
0.4620	18.95	9.66	28.61	46.66	-18.05	AVG
0.5818	31.66	9.66	41.32	56.00	-14.68	QP
0.5818	16.68	9.66	26.34	46.00	-19.66	AVG
1.0460	31.36	9.61	40.97	56.00	-15.03	QP
1.0460	17.87	9.61	27.48	46.00	-18.52	AVG
4.3219	32.20	9.51	41.71	56.00	-14.29	QP
4.3219	24.10	9.51	33.61	46.00	-12.39	AVG

Remark:

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

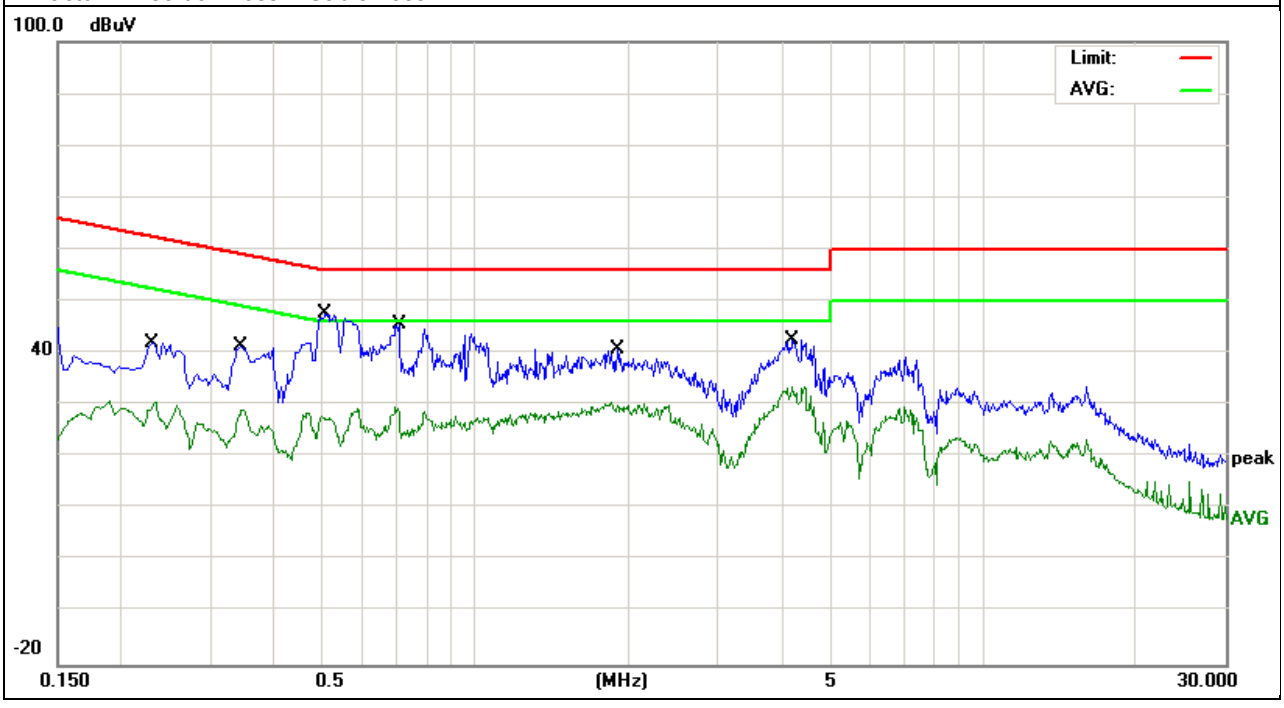


EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
Test Mode：	Mode 1	Phase：	L
Test Voltage ：	DC 5V From PC AC 240V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2300	32.40	9.61	42.01	62.45	-20.44	QP
0.2300	20.91	9.61	30.52	52.45	-21.93	AVG
0.3459	31.74	9.63	41.37	59.06	-17.69	QP
0.3459	19.35	9.63	28.98	49.06	-20.08	AVG
0.5060	37.83	9.68	47.51	56.00	-8.49	QP
0.5060	18.77	9.68	28.45	46.00	-17.55	AVG
0.7059	35.99	9.64	45.63	56.00	-10.37	QP
0.7059	19.88	9.64	29.52	46.00	-16.48	AVG
1.9059	31.23	9.55	40.78	56.00	-15.22	QP
1.9059	21.09	9.55	30.64	46.00	-15.36	AVG
4.2218	33.07	9.51	42.58	56.00	-13.42	QP
4.2218	24.08	9.51	33.59	46.00	-12.41	AVG

Remark:

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



EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
Test Mode：	Mode 1	Phase：	N
Test Voltage ：	DC 5V From PC AC 240V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2500	35.62	9.61	45.23	61.75	-16.52	QP
0.2500	22.56	9.61	32.17	51.75	-19.58	AVG
0.3420	33.20	9.62	42.82	59.15	-16.33	QP
0.3420	19.50	9.62	29.12	49.15	-20.03	AVG
0.5260	39.78	9.68	49.46	56.00	-6.54	QP
0.5260	20.75	9.68	30.43	46.00	-15.57	AVG
0.6979	37.59	9.64	47.23	56.00	-8.77	QP
0.6979	19.84	9.64	29.48	46.00	-16.52	AVG
2.0619	30.37	9.54	39.91	56.00	-16.09	QP
2.0619	19.91	9.54	29.45	46.00	-16.55	AVG
4.2339	33.12	9.51	42.63	56.00	-13.37	QP
4.2339	24.01	9.51	33.52	46.00	-12.48	AVG

Remark:

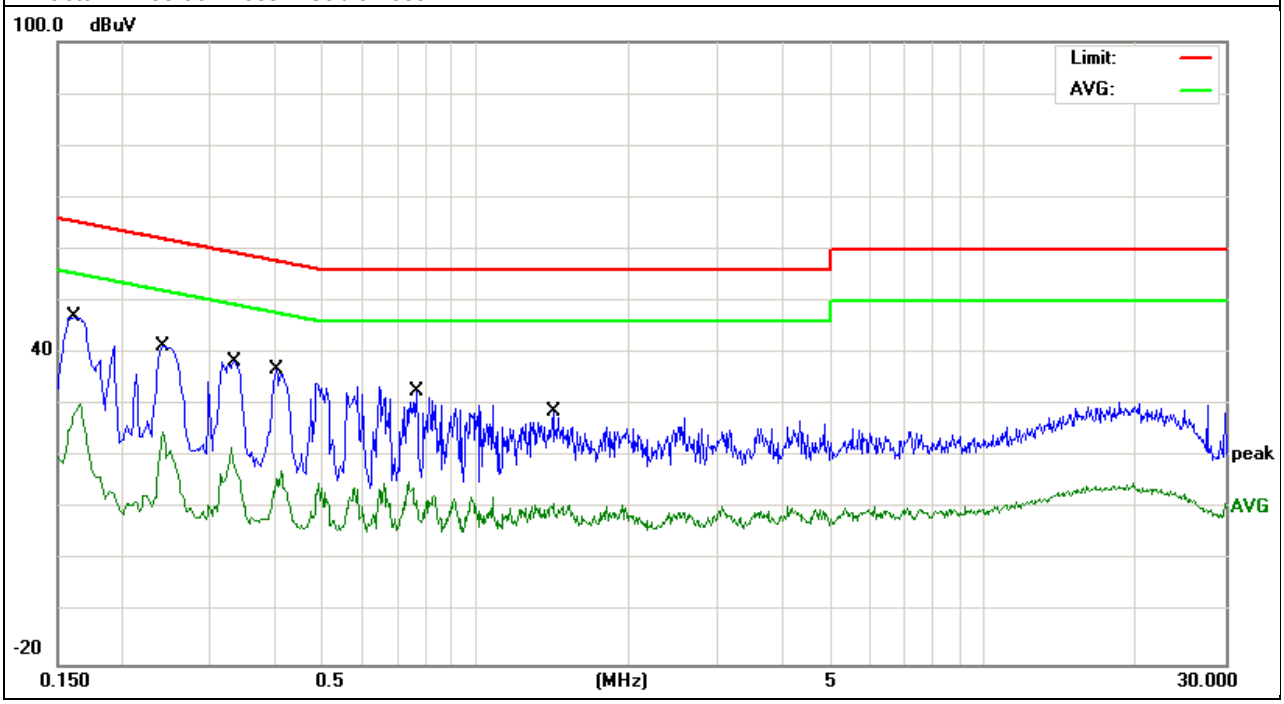
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
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)	
0.1620	37.31	9.60	46.91	65.36	-18.45	QP
0.1620	20.60	9.60	30.20	55.36	-25.16	AVG
0.2420	31.87	9.61	41.48	62.02	-20.54	QP
0.2420	15.39	9.61	25.00	52.02	-27.02	AVG
0.3339	28.88	9.62	38.50	59.35	-20.85	QP
0.3339	12.15	9.62	21.77	49.35	-27.58	AVG
0.4060	27.34	9.64	36.98	57.73	-20.75	QP
0.4060	7.63	9.64	17.27	47.73	-30.46	AVG
0.7660	23.09	9.63	32.72	56.00	-23.28	QP
0.7660	5.61	9.63	15.24	46.00	-30.76	AVG
1.4219	19.31	9.58	28.89	56.00	-27.11	QP
1.4219	1.36	9.58	10.94	46.00	-35.06	AVG

Remark:

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

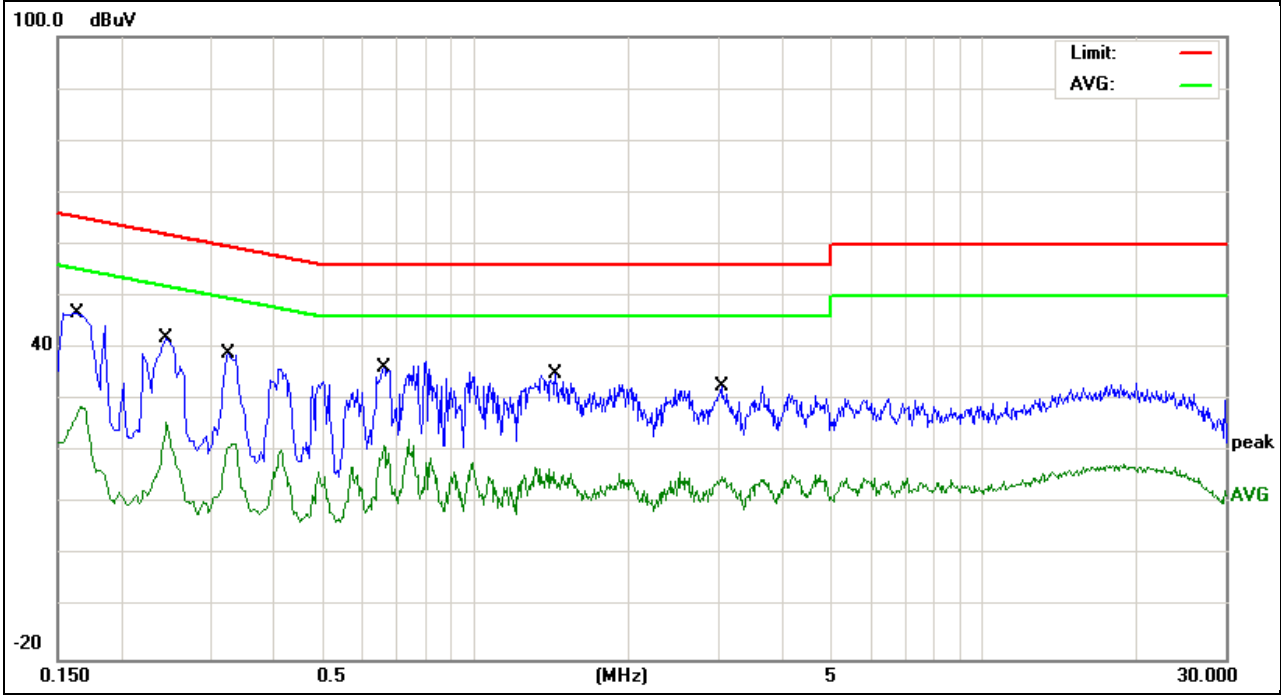


EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
Test Mode：	Mode 1	Phase：	N
Test Voltage ：	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1660	37.23	9.60	46.83	65.15	-18.32	QP
0.1660	19.08	9.60	28.68	55.15	-26.47	AVG
0.2460	32.30	9.61	41.91	61.89	-19.98	QP
0.2460	16.24	9.61	25.85	51.89	-26.04	AVG
0.3260	29.26	9.62	38.88	59.55	-20.67	QP
0.3260	11.95	9.62	21.57	49.55	-27.98	AVG
0.6580	26.56	9.65	36.21	56.00	-19.79	QP
0.6580	11.65	9.65	21.30	46.00	-24.70	AVG
1.4339	25.54	9.58	35.12	56.00	-20.88	QP
1.4339	7.33	9.58	16.91	46.00	-29.09	AVG
3.0539	23.10	9.52	32.62	56.00	-23.38	QP
3.0539	5.68	9.52	15.20	46.00	-30.80	AVG

Remark:

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

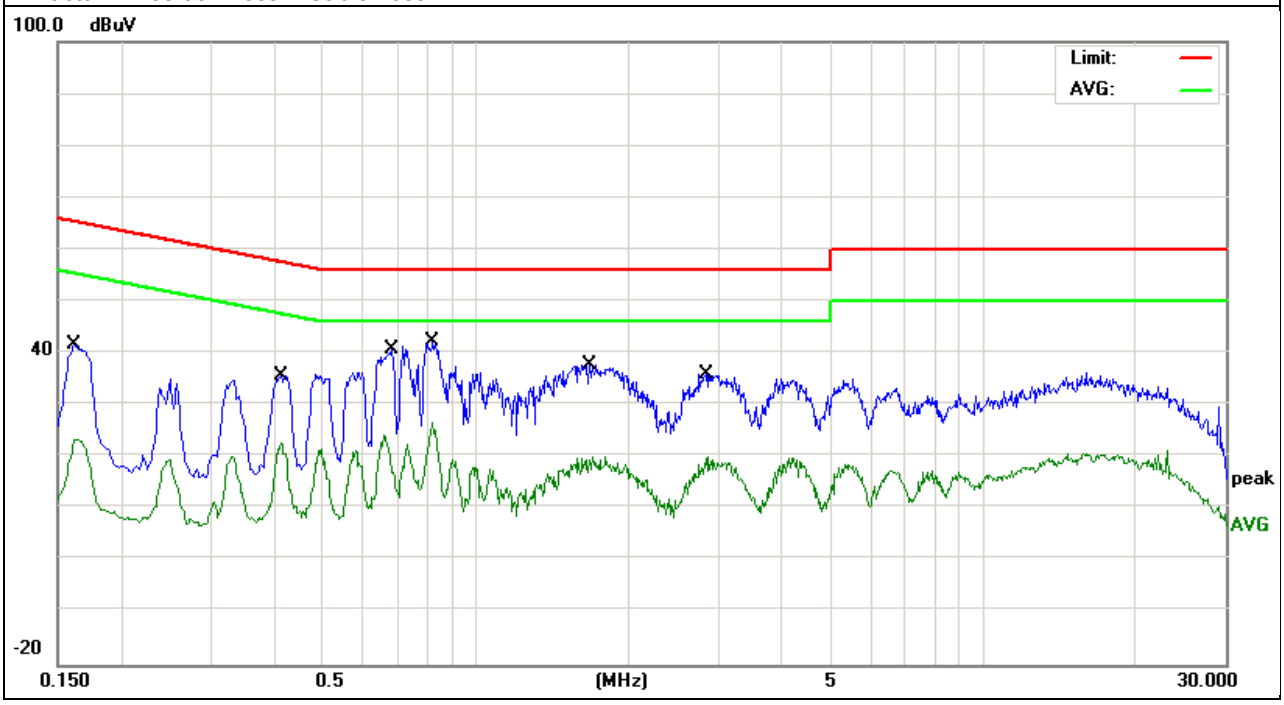


EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
Test Mode：	Mode 1	Phase：	L
Test Voltage ：	DC 5V From Adapter AC 240V /60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1620	32.00	9.60	41.60	65.36	-23.76	QP
0.1620	13.70	9.60	23.30	55.36	-32.06	AVG
0.4138	26.15	9.64	35.79	57.57	-21.78	QP
0.4138	13.20	9.64	22.84	47.57	-24.73	AVG
0.6860	31.16	9.64	40.80	56.00	-15.20	QP
0.6860	14.66	9.64	24.30	46.00	-21.70	AVG
0.8220	32.67	9.63	42.30	56.00	-13.70	QP
0.8220	16.87	9.63	26.50	46.00	-19.50	AVG
1.6778	28.28	9.56	37.84	56.00	-18.16	QP
1.6778	10.64	9.56	20.20	46.00	-25.80	AVG
2.8460	26.44	9.52	35.96	56.00	-20.04	QP
2.8460	10.52	9.52	20.04	46.00	-25.96	AVG

Remark:

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

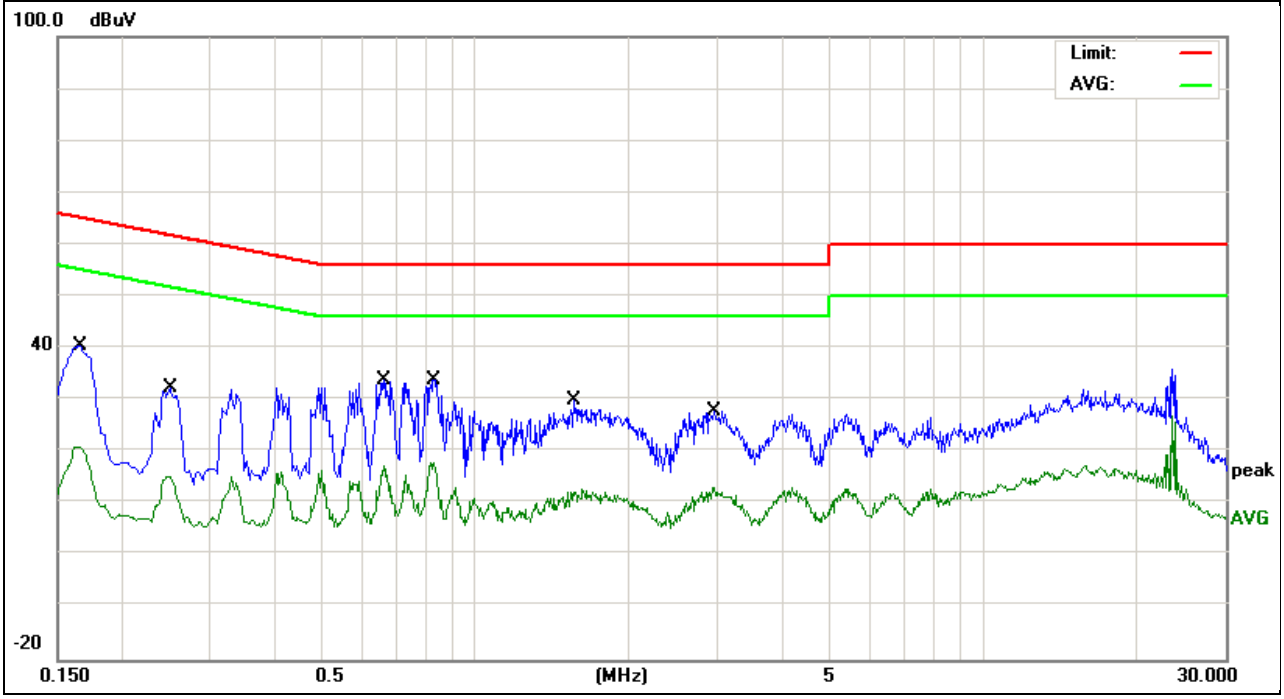


EUT：	Tablet PC	Model Name. ：	SM708
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	2015-10-12
Test Mode：	Mode 1	Phase：	N
Test Voltage ：	DC 5V From Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1660	30.74	9.60	40.34	65.15	-24.81	QP
0.1660	11.45	9.60	21.05	55.15	-34.10	AVG
0.2500	22.64	9.61	32.25	61.75	-29.50	QP
0.2500	5.60	9.61	15.21	51.75	-36.54	AVG
0.6580	24.34	9.65	33.99	56.00	-22.01	QP
0.6580	7.69	9.65	17.34	46.00	-28.66	AVG
0.8299	24.26	9.63	33.89	56.00	-22.11	QP
0.8299	8.46	9.63	18.09	46.00	-27.91	AVG
1.5620	20.32	9.57	29.89	56.00	-26.11	QP
1.5620	3.20	9.57	12.77	46.00	-33.23	AVG
2.9580	18.46	9.52	27.98	56.00	-28.02	QP
2.9580	3.56	9.52	13.08	46.00	-32.92	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.

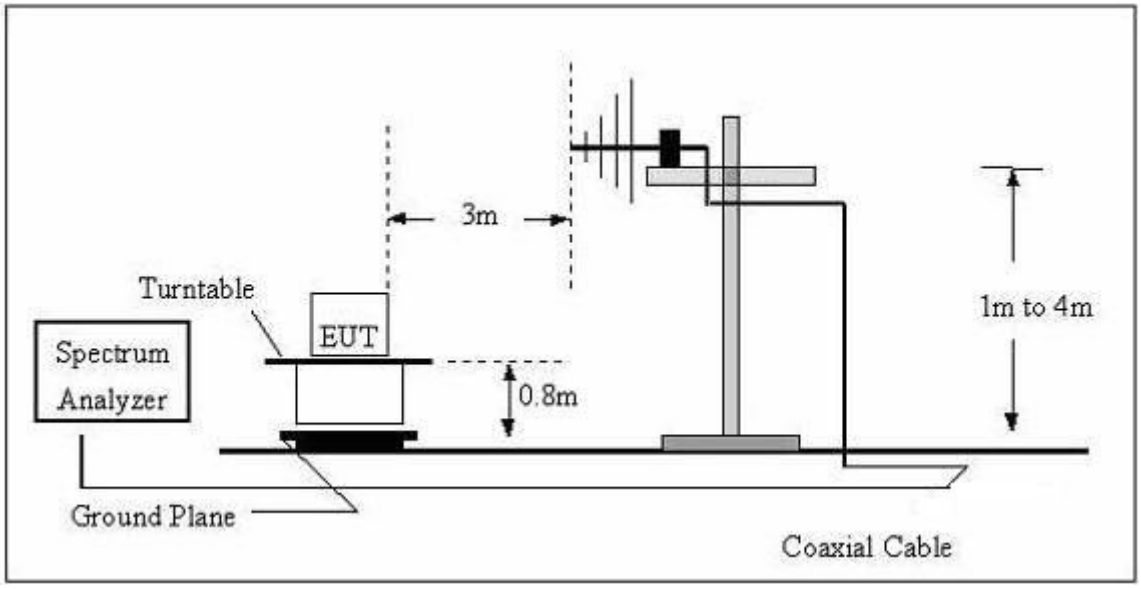
Note：For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

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

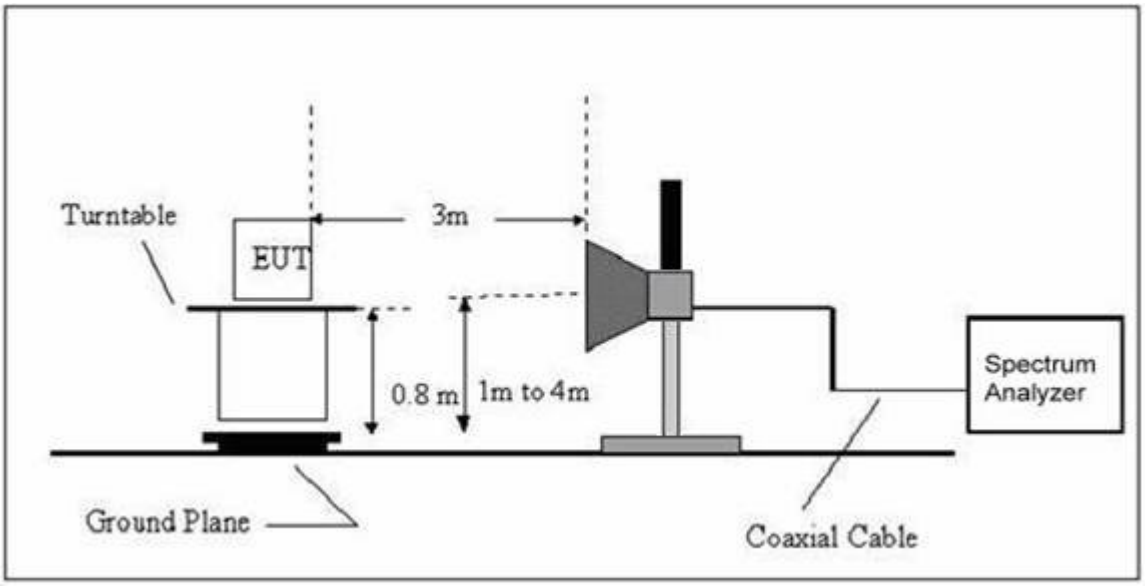
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



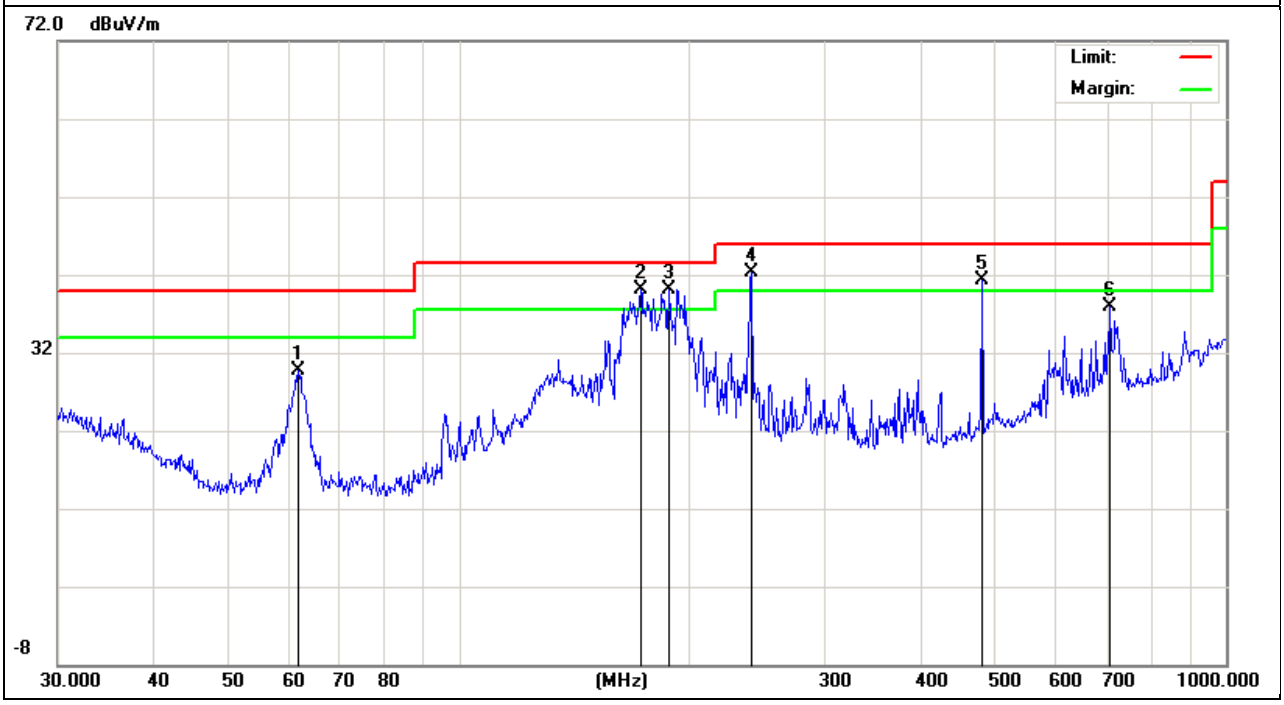
3.2.4 TEST RESULTS

TEST RESULTS (30~1000 MHz)

EUT：	Tablet PC	Model Name ：	SM708
Temperature：	24 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Date：	2015-10-12
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
61.7781	23.83	5.87	29.70	40.00	-10.30	QP
172.5988	27.68	12.42	40.10	43.50	-3.40	QP
187.7529	28.59	11.52	40.11	43.50	-3.39	QP
240.83	31.69	10.71	42.40	46.00	-3.60	QP
480.5276	24.72	16.56	41.28	46.00	-4.72	QP
706.6997	16.69	21.12	37.81	46.00	-8.19	QP

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

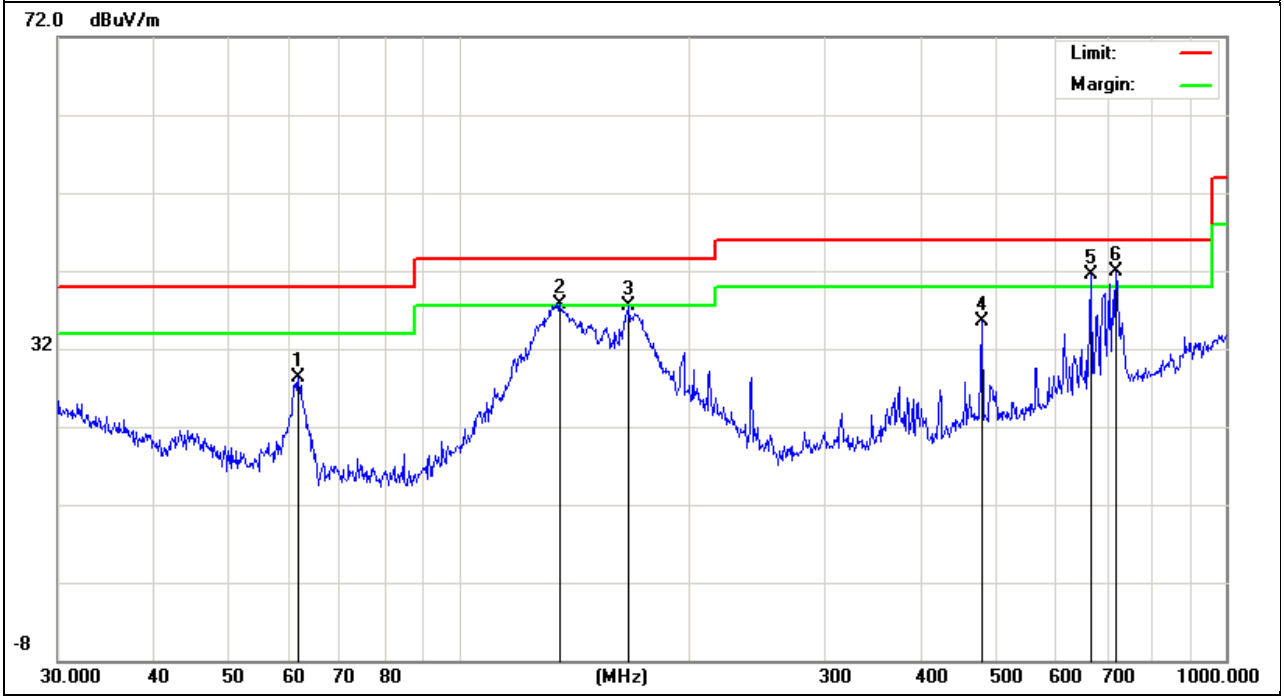


EUT：	Tablet PC	Model Name ：	SM708
Temperature：	24 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Date：	2015-10-12
Test Mode ：	Mode 1	Polarization：	Vertical
Test Power ：	DC 5V From PC AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
61.7781	22.46	5.87	28.33	40.00	-11.67	QP
135.5062	26.76	10.97	37.73	43.50	-5.77	QP
166.6511	25.54	12.02	37.56	43.50	-5.94	QP
480.5276	18.98	16.56	35.54	46.00	-10.46	QP
665.8034	20.78	20.77	41.55	46.00	-4.45	QP
719.1992	20.56	21.34	41.90	46.00	-4.10	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



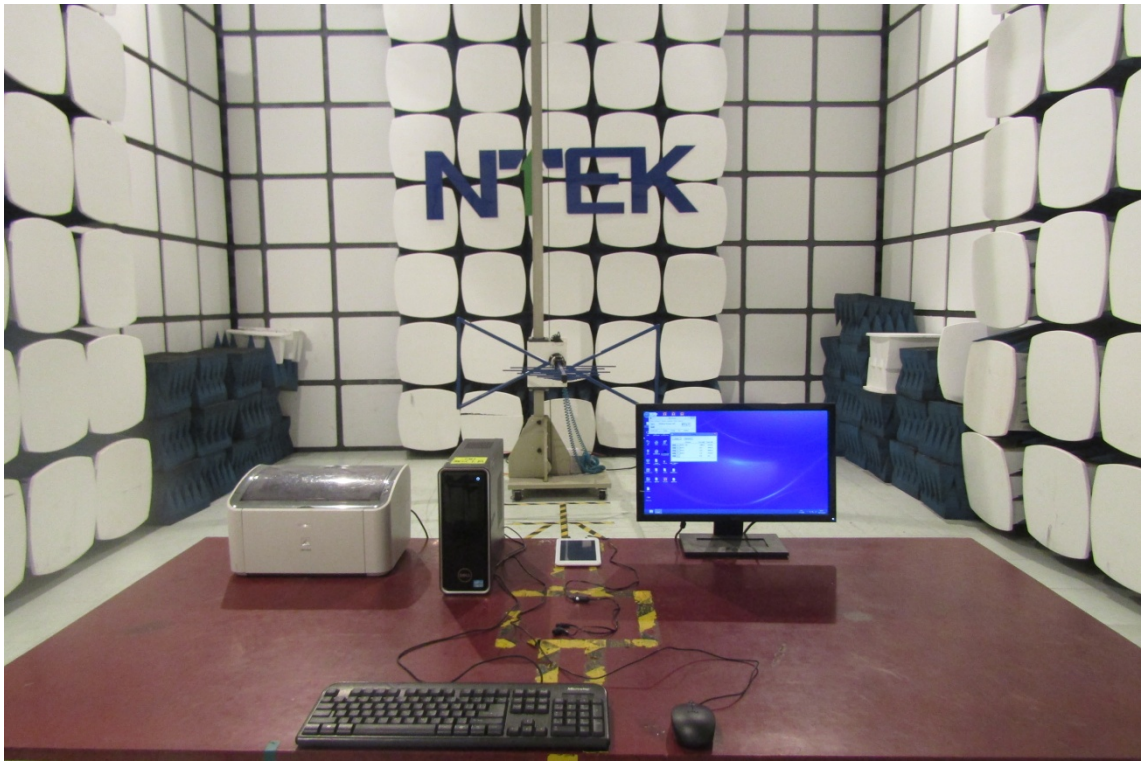
3.2.5 TEST RESULTS(1000~12400MHz)

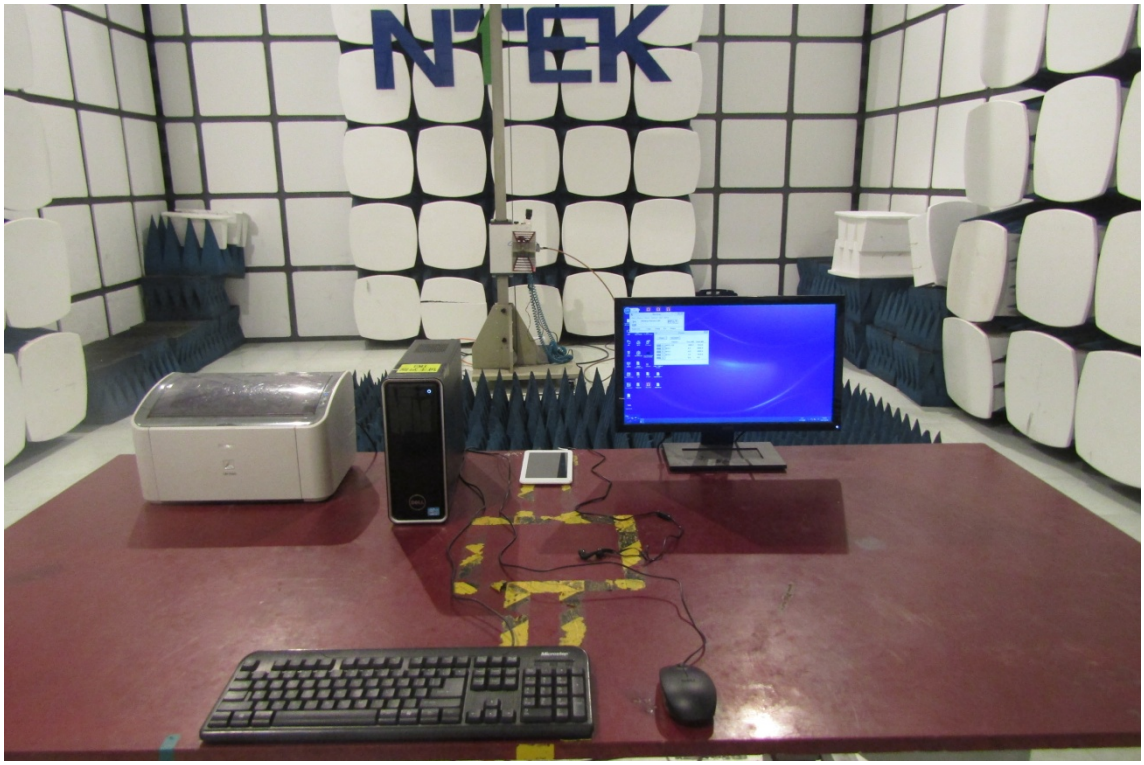
Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	1916.324	64.57	-10.38	54.19	74.00	-19.81	peak
V	1916.324	47.88	-10.38	37.50	54.00	-16.50	AVG
V	1993.371	63.92	-9.76	54.16	74.00	-19.84	peak
V	1993.371	46.66	-9.76	36.90	54.00	-17.10	AVG
V	3406.085	51.19	-5.89	45.30	74.00	-28.70	peak
V	3406.085	34.59	-5.89	28.70	54.00	-25.30	AVG
V	4245.883	46.57	-1.84	44.73	74.00	-29.27	peak
V	4245.883	30.44	-1.84	28.60	54.00	-25.40	AVG
H	1748.973	56.15	-11.09	45.06	74.00	-28.94	peak
H	1748.973	40.49	-11.09	29.40	54.00	-24.60	AVG
H	2000.527	60.31	-9.64	50.67	74.00	-23.33	peak
H	2000.527	43.54	-9.64	33.90	54.00	-20.10	AVG
H	2080.961	54.68	-8.36	46.32	74.00	-27.68	peak
H	2080.961	38.56	-8.36	30.20	54.00	-23.80	AVG
H	3725.315	46.01	-4.56	41.45	74.00	-32.55	peak
H	3725.315	33.26	-4.56	28.70	54.00	-25.30	AVG

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

4. EUT TEST PHOTO

Radiated Measurement Photos





Conducted Measurement Photos