

FCC TEST REPORT

Prepared For	Fuzhou Smart Digital Science & Technology Co., Ltd.
Product Name:	AOC Tablet
Trade Name:	N/A
Model Name :	MW0711
FCC ID:	Y5VMW0711
Prepared By	DongGuan Precise Testing Service Co.,Ltd.
	F616A Room, 6th Floor, Meixin Business Center, Dongcheng Middle Road, Dongguan, Guangdong, China
Report No.	PTS2012061939F
Test Date:	Jun 10 ~ Jun 21, 2012
Date of Report :	Jun 21, 2012

TEST RESULT CERTIFICATION

Applicant's name : Fuzhou Smart Digital Science & Technology Co., Ltd
Address : No.8 Building, Honshan science & Technology Zone, Gulou District, Fuzhou, Fujian, China
Manufacture's Name : Fuzhou Smart Digital Science & Technology Co., Ltd
Address : No.8 Building, Honshan science & Technology Zone, Gulou District, Fuzhou, Fujian, China

Product description

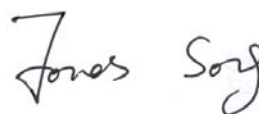
Product name : AOC Tablet
Model and/or type reference : MW0711
Rating(s) : DC 3.7V
Standards : FCC Part15B:2010
ANSI C63.4: 2009

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the 2004/108/EC requirements. 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 : 17 Jun. 2012 ~25 Jun. 2012
Date of Issue : 25 Jun. 2012
Test Result : **Pass**

Testing Engineer :



(Jones Song)

Technical Manager :



(David liu)

Authorized Signatory :



(Jacky Ou)

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ATTACHMENT PHOTOGRAPHS OF EUT	错误！未定义书签。

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2010 ANSI C63.4: 2009	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 FRN Registration Number:238937; IC Registration Number:9270A-1

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 ~6GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AOC Tablet	
Brand Name	N/A	
Model Name.	MW0711	
Serial No	N/A	
Model Difference	N/A	
Product Description	The EUT is a AOC Tablet..	
	Operating frequency:	OSC 24MHz ,32.768KHz
	Connecting I/O port:	USB Port
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Power Source	DC 3.7V by battery	
Battery	Rated Voltage: 3.7V capacity :300mAh	

2.2 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	Charging Mode (Adapter1)
Mode 2	Charging Mode (Adapter2)
Mode 3	USB Mode

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging Mode (Adapter1)
Mode 2	Charging Mode (Adapter2)

For Radiated Test	
Final Test Mode	Description
Mode 1	Charging Mode (Adapter1)
Mode 2	Charging Mode (Adapter2)
Mode 3	USB Mode

2.3 DESCRIPTION OF TEST SETUP

Mode 1:

E-1
EUT

2.4 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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	AOC Tablet	N/A	MW0711	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

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” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101313	Jul. 06, 2012
2	LISN	EMCO	3816/2	00042990	Jul. 06, 2012
3	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2012
4	Test Cable	N/A	C01	N/A	Jul. 06, 2012
5	Test Cable	N/A	C02	N/A	Jul. 06, 2012
6	Test Cable	N/A	C03	N/A	Jul. 06, 2012
7	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2012
8	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2012
9	Triple-Loop Antenna	EVERFINE	LIA-2	11020003	Jul. 06, 2012
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2012

2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2012
2	Test Cable	N/A	R-01	N/A	Jul. 06, 2012
3	Test Cable	N/A	R-02	N/A	Jul. 06, 2012
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2012
5	Antenna Mast	EM	SC100_1	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2012
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06. 2012
9	Horn Antenna	EM	EM-AH-1018 0	2011071402	Jul. 06. 2012
10	Amplifier	EM	EM-30180	060538	Jul. 06. 2012

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.

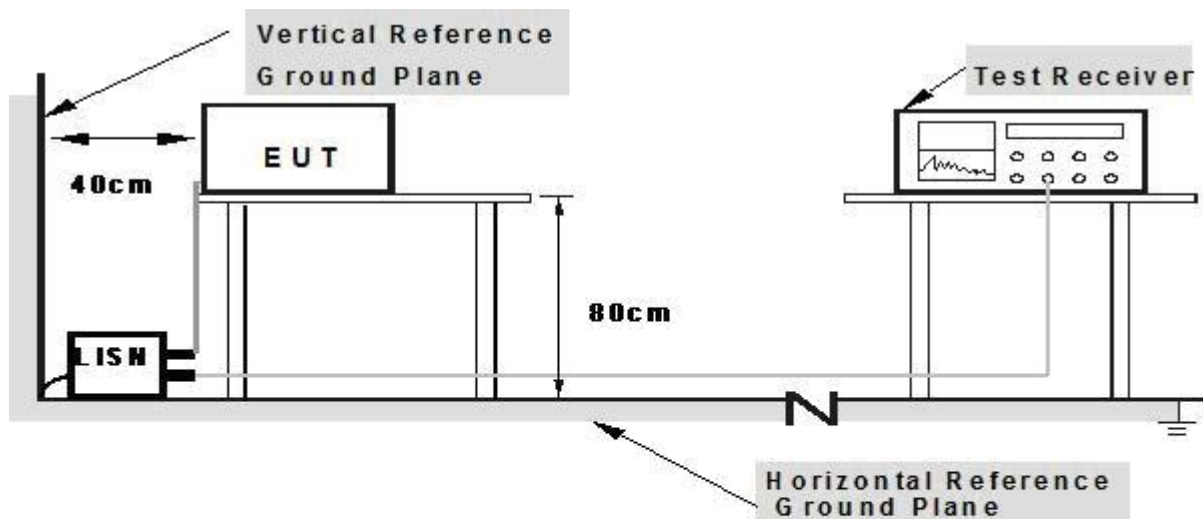
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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.

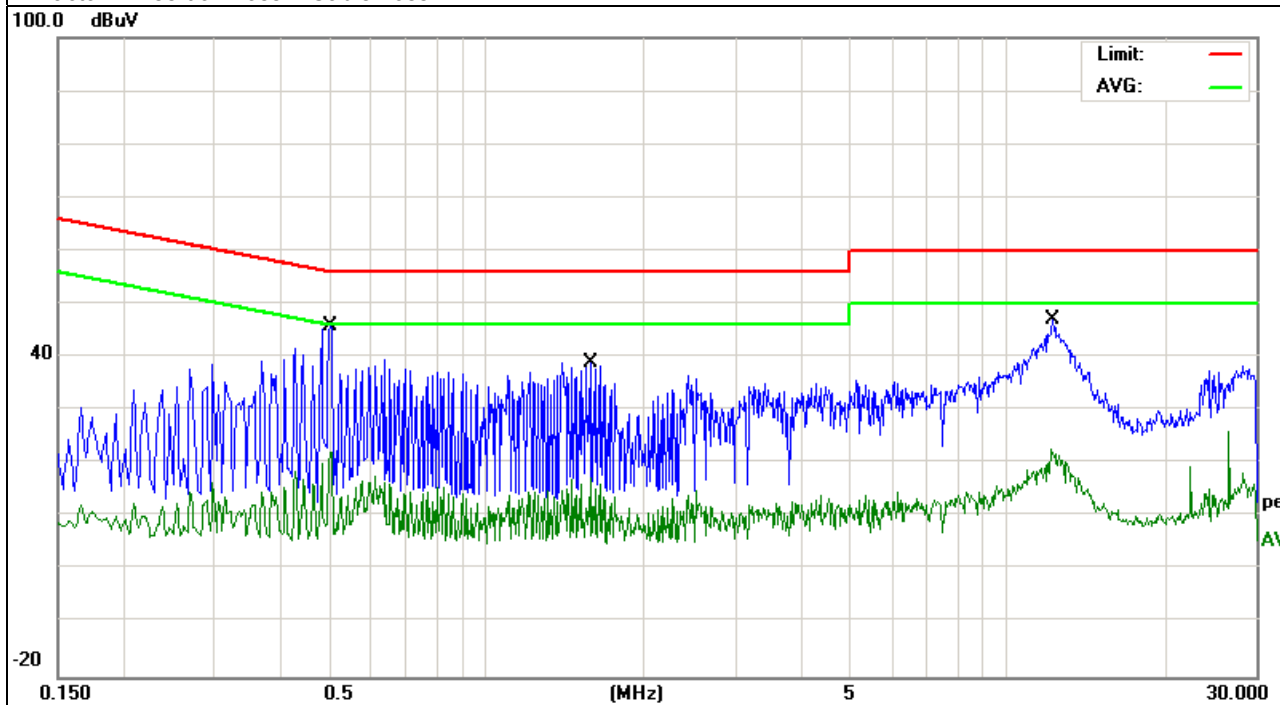
3.1.5 TEST RESULTS

EUT :	AOC Tablet	Model Name. :	MW0711
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.502	35.5	10.41	45.91	56	-10.09	QP
0.502	11.64	10.41	22.05	46	-23.95	AVG
1.59	28.54	10.44	38.98	56	-17.02	QP
1.59	6.84	10.44	17.28	46	-28.72	AVG
12.102	12.14	10.71	22.85	50	-27.15	AVG
12.218	36.42	10.71	47.13	60	-12.87	QP

Remark:

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

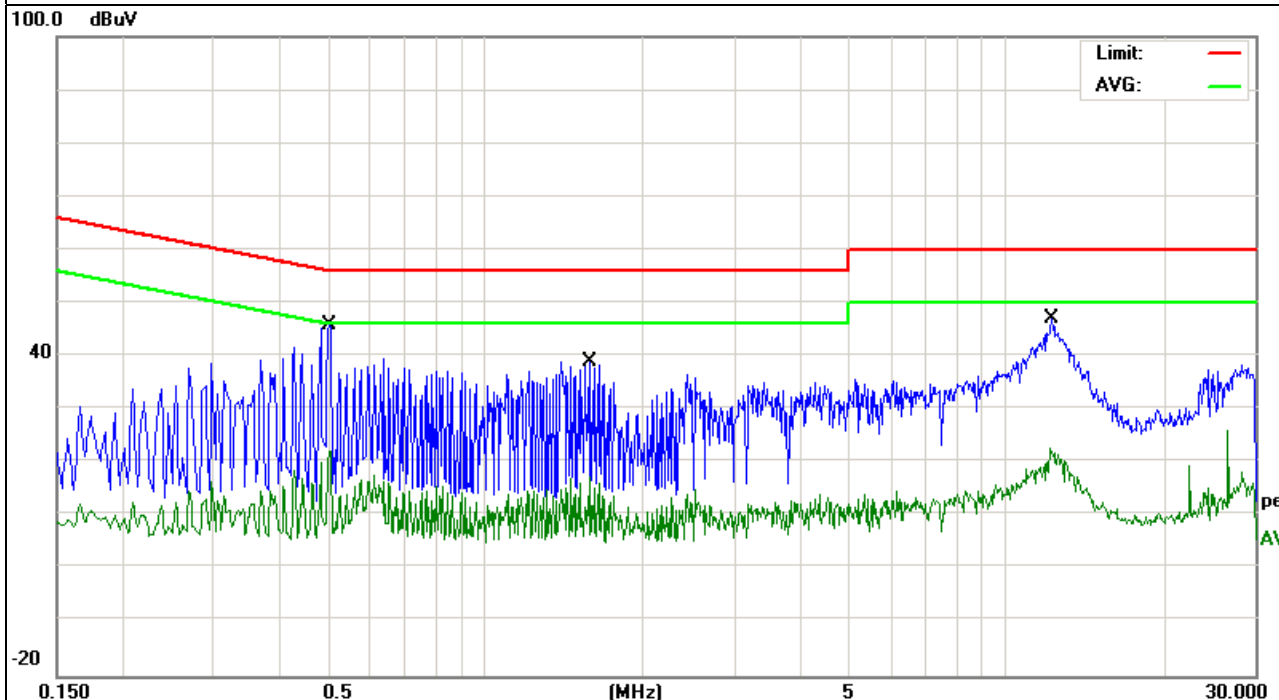


EUT :	AOC Tablet	Model Name. :	MW0711
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from PC	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.502	35.5	10.41	45.91	56	-10.09	QP
0.502	11.64	10.41	22.05	46	-23.95	AVG
1.59	28.54	10.44	38.98	56	-17.02	QP
1.59	6.84	10.44	17.28	46	-28.72	AVG
12.102	12.14	10.71	22.85	50	-27.15	AVG
12.218	36.42	10.71	47.13	60	-12.87	QP

Remark:

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

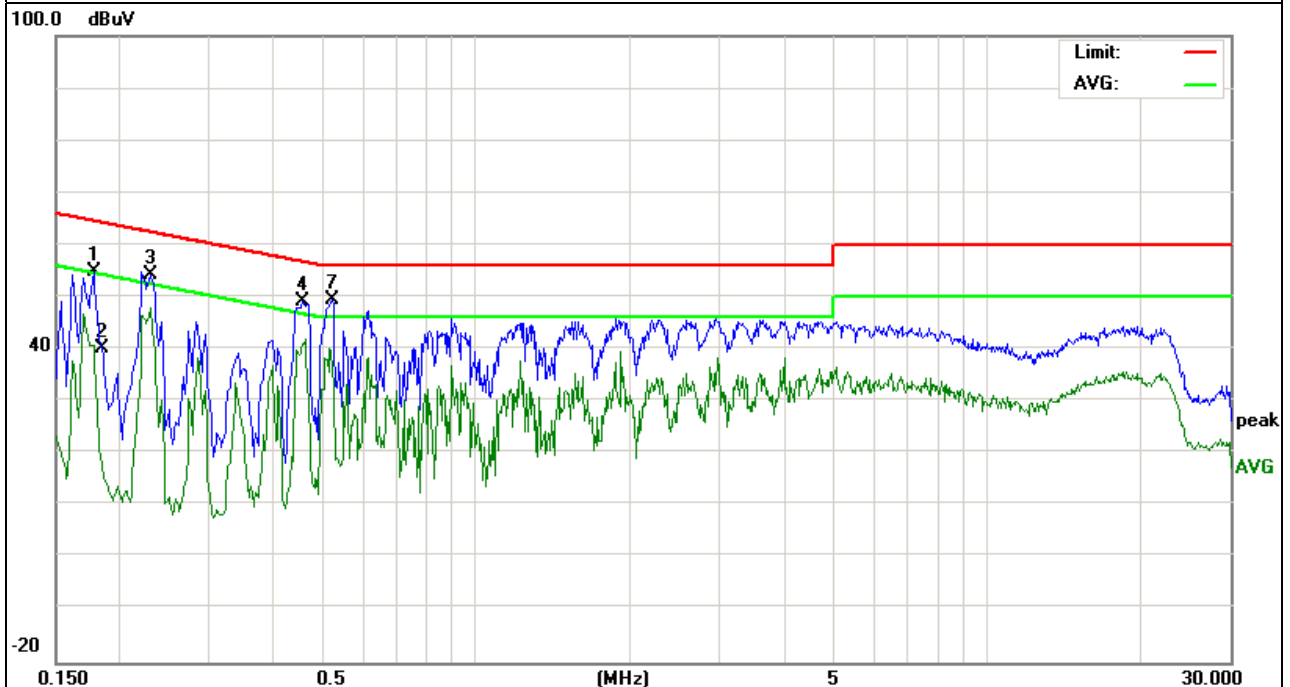


EUT :	AOC Tablet	Model Name. :	MW0711
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC	Test Mode :	Mode 2

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.178	44.47	10.37	54.84	64.57	-9.73	peak
0.1844	29.63	10.39	40.02	64.28	-24.26	peak
0.23	43.85	10.43	54.28	62.45	-8.17	peak
0.458	38.85	10.41	49.26	56.73	-7.47	peak
0.462	31.49	10.41	41.9	46.66	-4.76	AVG
0.518	29.73	10.41	40.14	46	-5.86	AVG
0.522	38.96	10.41	49.37	56	-6.63	peak

Remark:

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

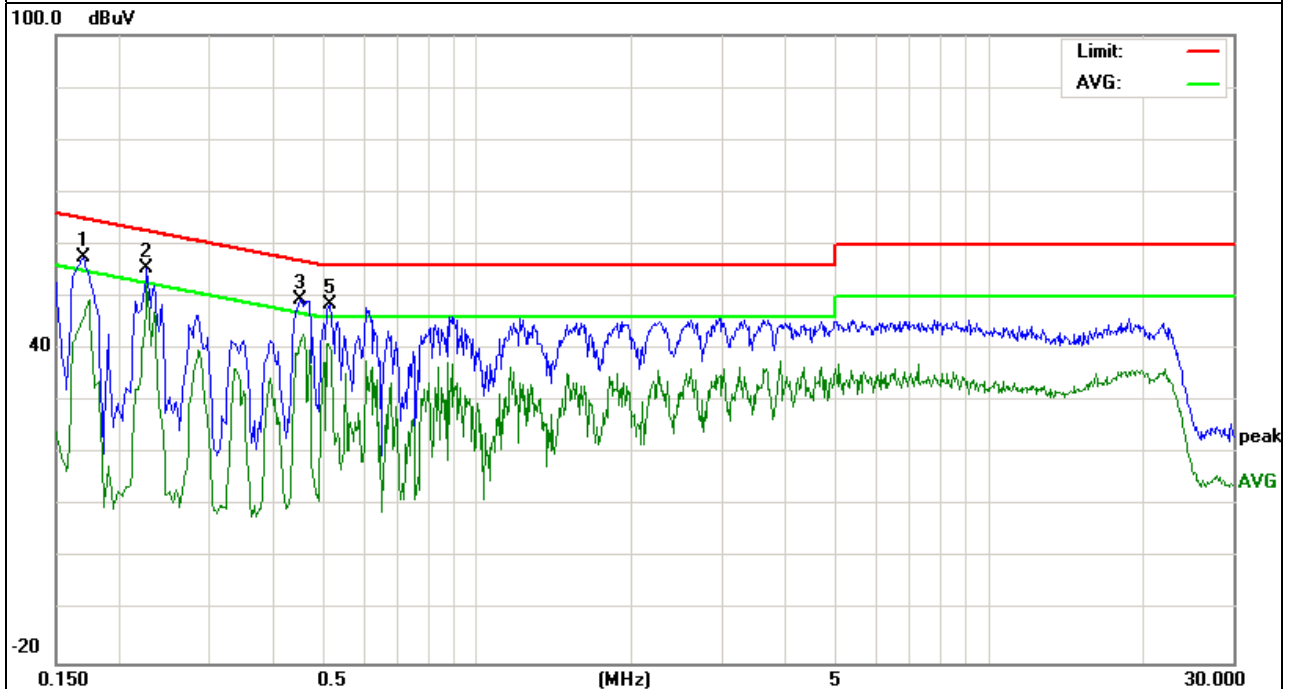


EUT :	AOC Tablet	Model Name. :	MW0711
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC	Test Mode :	Mode 2

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.17	47.03	10.45	57.48	64.96	-7.48	peak
0.226	45.05	10.44	55.49	62.59	-7.1	peak
0.45	39.14	10.41	49.55	56.87	-7.32	peak
0.51	30.58	10.4	40.98	46	-5.02	AVG
0.518	38.18	10.4	48.58	56	-7.42	peak
0.226	43.46	10.44	53.9	62.59	-8.69	QP
0.226	36.16	10.44	46.6	52.59	-5.99	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:

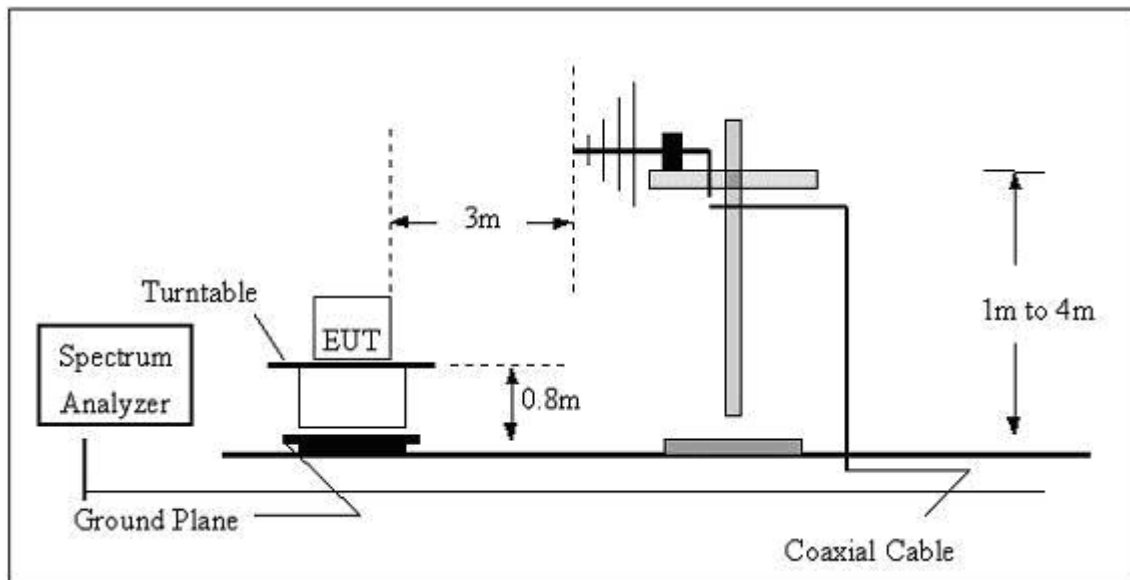
- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

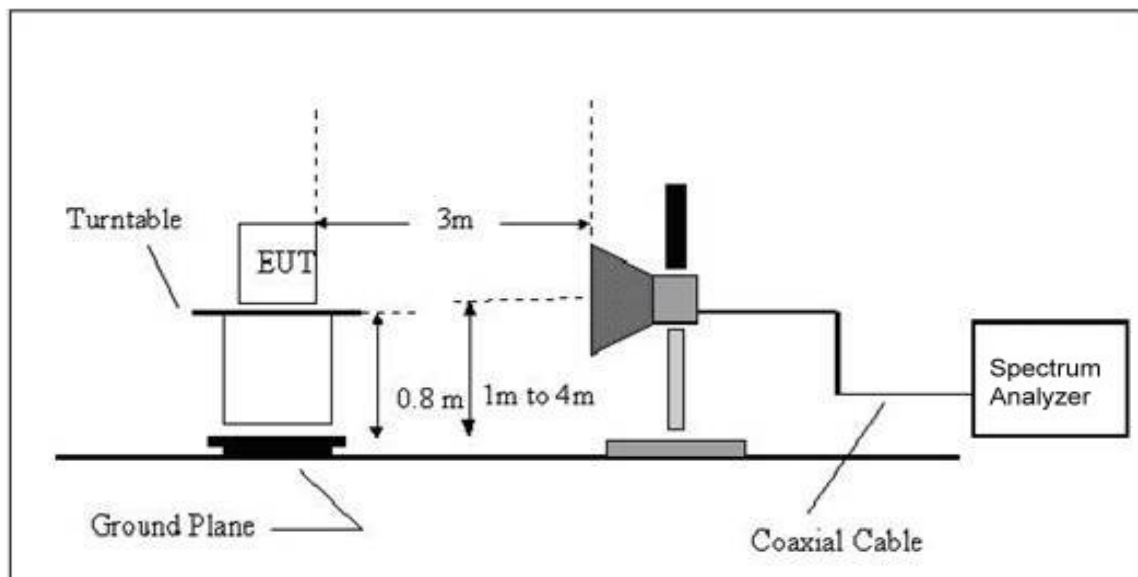
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 TEST SETUP

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



(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(Blow 30MHZ)

EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1/2/3	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

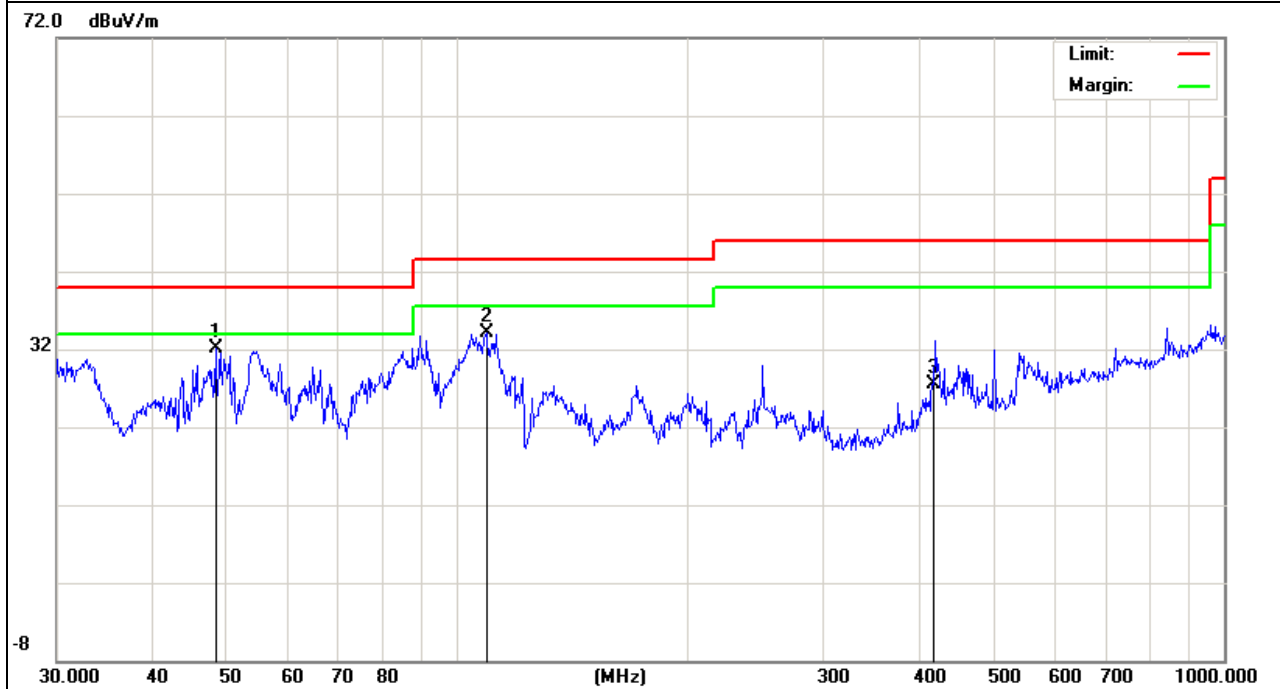
3.2.6 TEST RESULTS(30MHZ-1GHZ)

EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7 V
Test Mode :	Fly mode	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
48.3318	23.08	8.96	32.04	40	-7.96	peak
109.0284	22.72	11.31	34.03	43.5	-9.47	peak
417.6409	9.71	17.87	27.58	46	-18.42	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

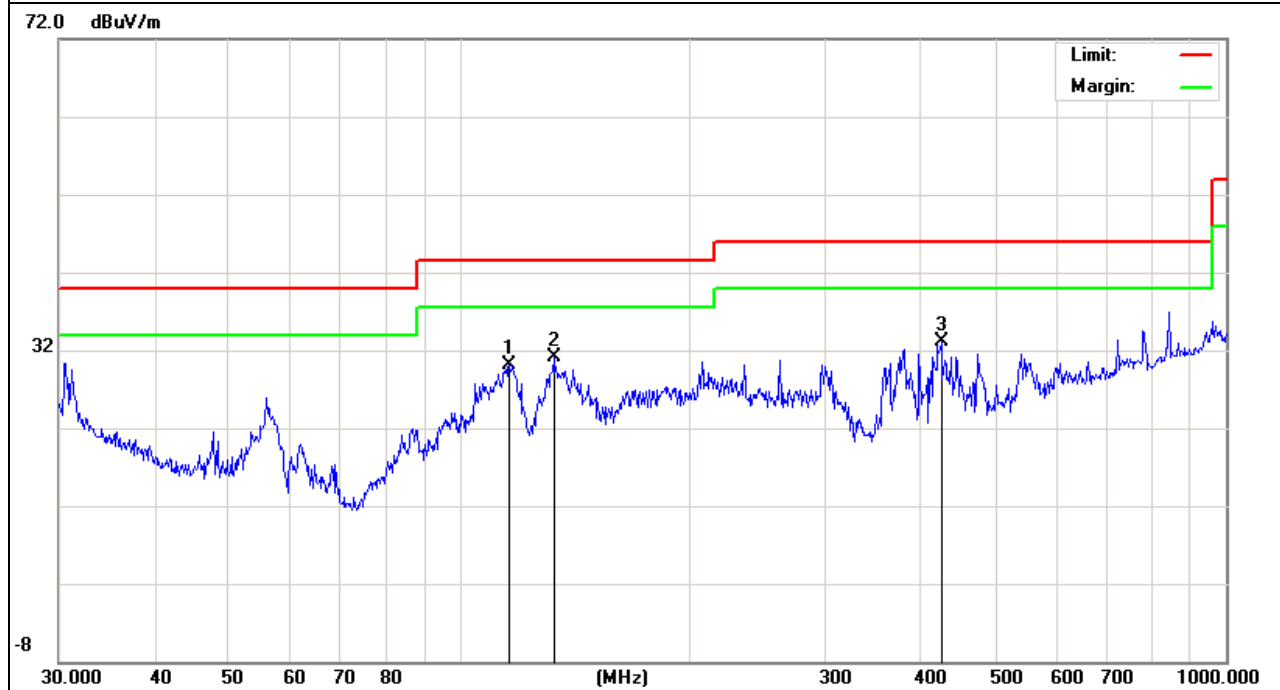


EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7 V
Test Mode :	Fly mode	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
116.132	18.31	11.71	30.02	43.5	-13.48	peak
132.685	19.19	11.95	31.14	43.5	-12.36	peak
425.028	15.3	17.82	33.12	46	-12.88	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

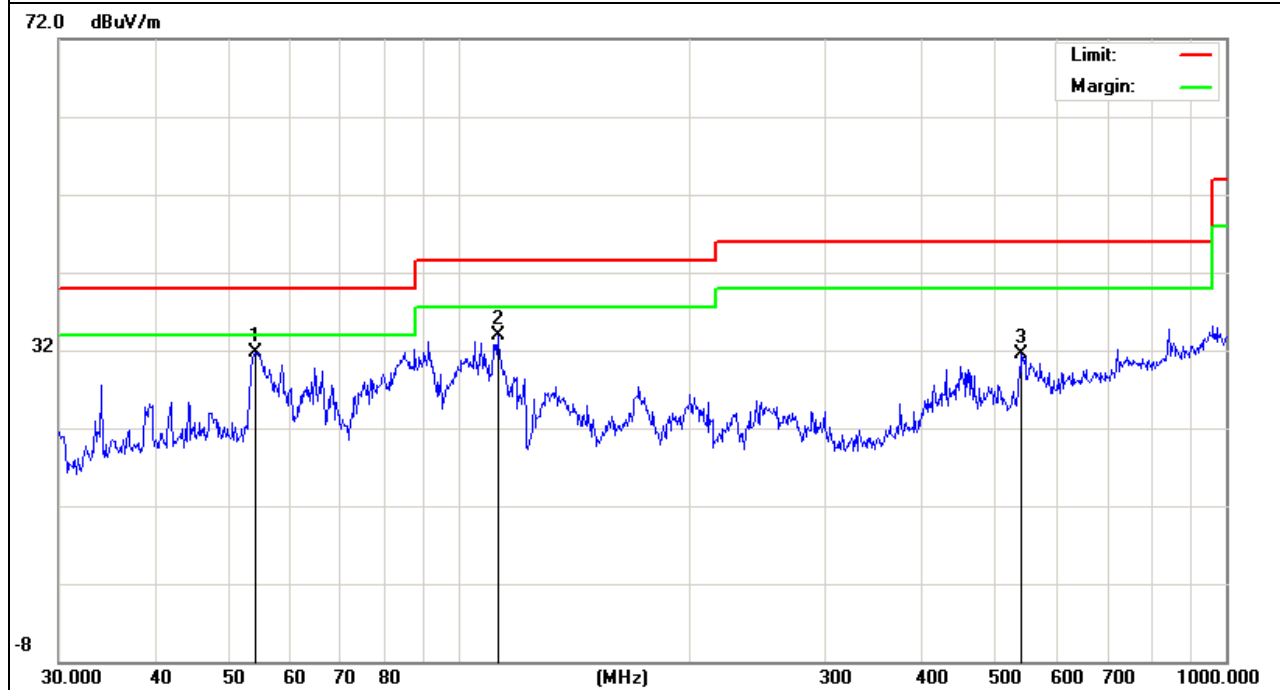


EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7 V
Test Mode :	Fly mode	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
54.261	25.43	6.31	31.74	40	-8.26	peak
112.1303	22.43	11.53	33.96	43.5	-9.54	peak
541.3721	10.88	20.67	31.55	46	-14.45	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

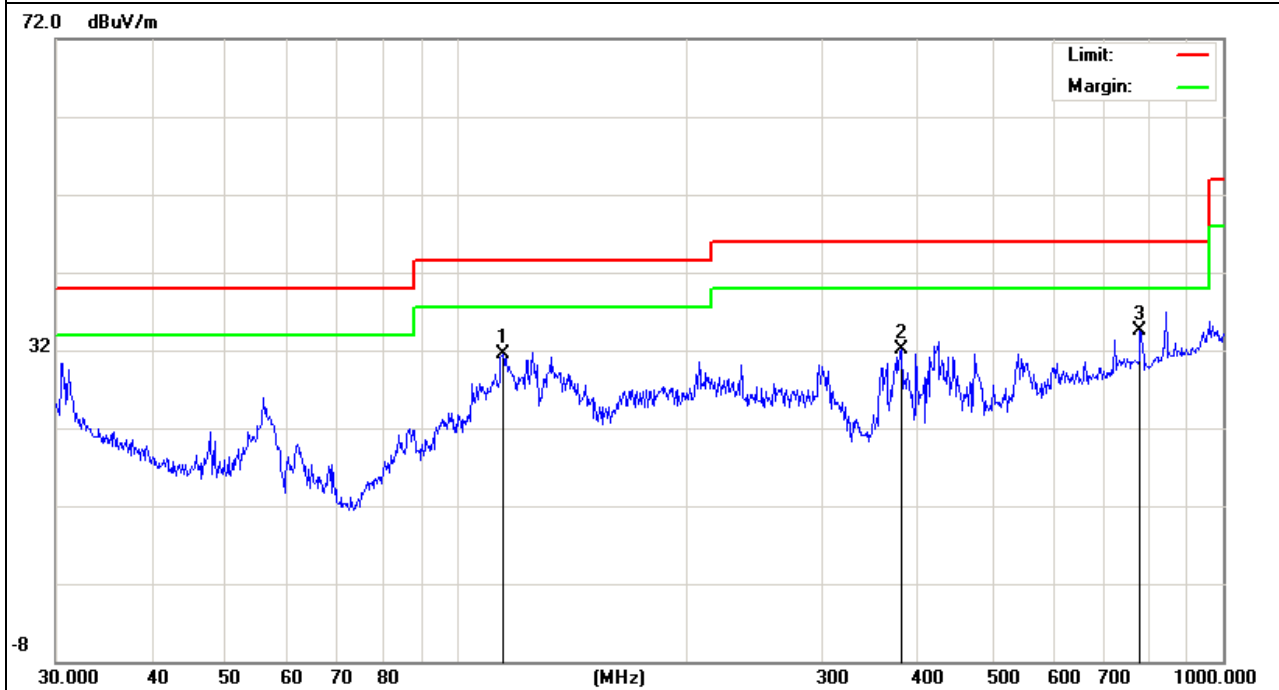


EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7 V
Test Mode :	Fly mode	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
114.9167	19.82	11.68	31.5	43.5	-12	peak
381.2485	15.61	16.49	32.1	46	-13.9	peak
779.6068	10.46	24.06	34.52	46	-11.48	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

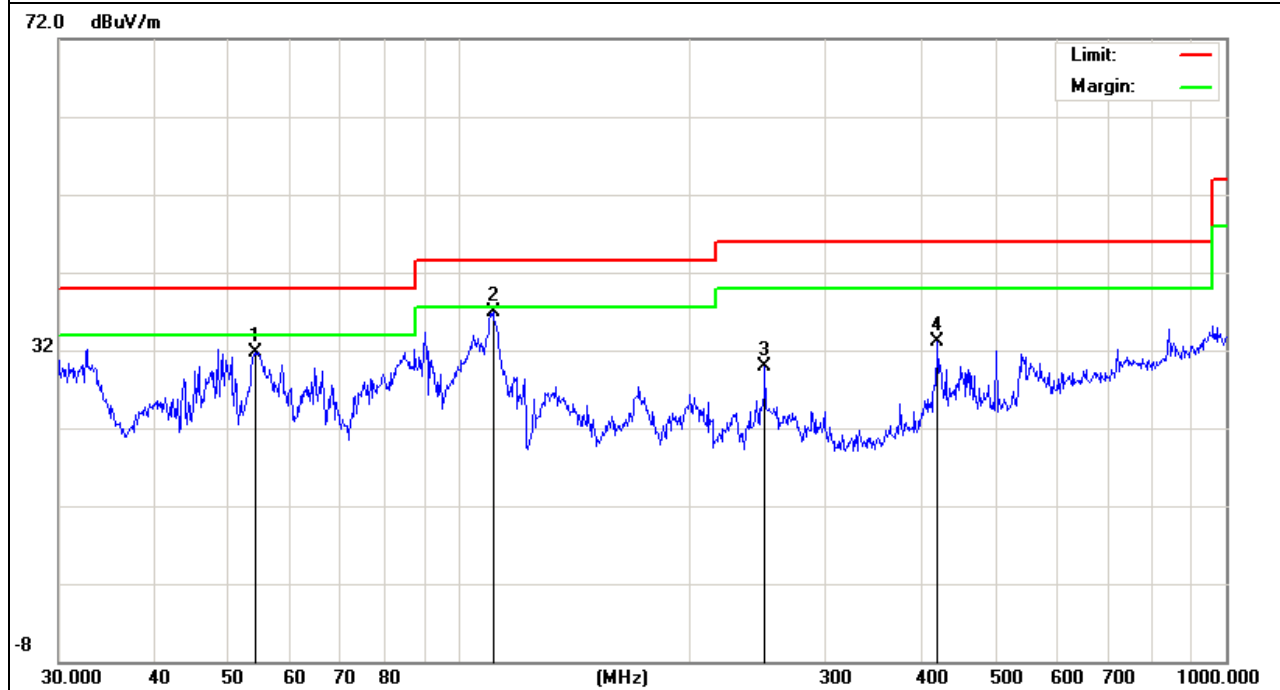


EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7 V
Test Mode :	Fly mode	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
54.261	25.43	6.31	31.74	40	-8.26	peak
110.5687	25.46	11.44	36.9	43.5	-6.6	peak
250.301	16.84	13.09	29.93	46	-16.07	peak
420.5803	15.21	17.91	33.12	46	-12.88	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

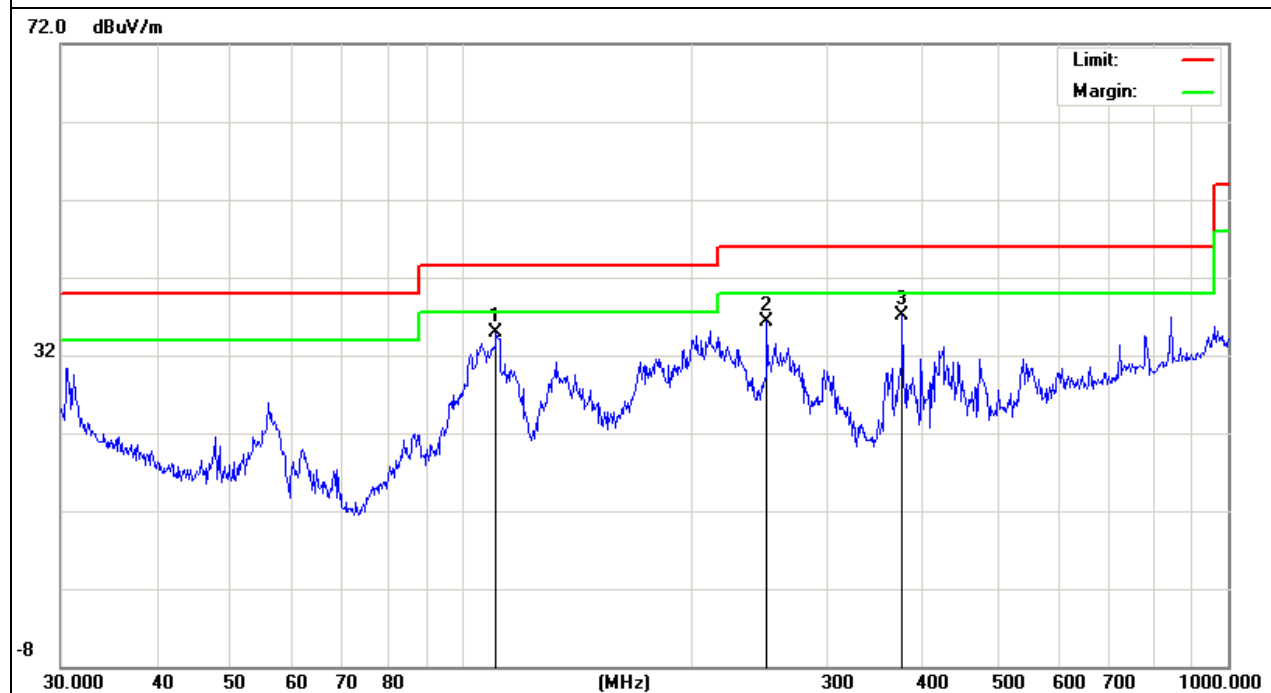


EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7 V
Test Mode :	Fly mode	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
110.9569	23.5	11.47	34.97	43.5	-8.53	peak
250.301	23.17	13.09	36.26	46	-9.74	peak
375.9384	20.98	16.21	37.19	46	-8.81	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



3.2.7 TEST RESULTS(Above 1GHz)

EUT :	AOC Tablet	Model Name :	MW0711
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7 V
Test Mode :	N/A	Polarization :	N/A

Note: The operating frequency is 24MHz(osc).32.768MHz, radiated emission above 1GHz don't need test.

4. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Emission Photos

