

ISED EMC Test Report

Report No. : BTL-ISEDE-1-2012T163
Equipment : Open frame Tablet PC
Model Name : OFT-10W03, OFT-10W03XXXXXXXXXX (where "X" may be any alphanumeric character, blank or "-")
Brand Name : Avalue
Applicant : AVALUE TECHNOLOGY INCORPORATION
Address : 7F, 228, Lian-cheng Road, Zhonghe Dist., New Taipei City 235, Taiwan

ISED Standard(s) : ICES-003, Issue 7, October 2020, Class A
Measurement Procedure(s) : ANSI C63.4-2014

Date of Receipt : 2020/12/30
Date of Test : 2020/12/30 ~ 2021/1/22
Issued Date : 2021/3/9

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by : Joe Chang
 Joe Chang, Engineer

Approved by : Pike Lee
 Pike Lee, Manager



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299

Fax: +886-2-2657-3331

Web: www.newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

CONTENTS

CONTENTS	3
REVISION HISTORY	4
1 SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
1.3 TEST ENVIRONMENT CONDITIONS	6
2 GENERAL INFORMATION	7
2.1 EUT INFORMATION	7
2.2 TEST MODES	8
2.3 EUT OPERATING CONDITION	8
2.4 TESTED CONFIGURATION DIAGRAM	9
2.5 SUPPORT UNITS	9
3 EMC EMISSION TEST	10
3.1 CONDUCTED EMISSIONS TEST	10
3.1.1 LIMITS	10
3.1.2 MEASUREMENT INSTRUMENTS LIST	10
3.1.3 TEST PROCEDURE	11
3.1.4 DEVIATION FROM TEST STANDARD	11
3.1.5 TEST SETUP	11
3.1.6 TEST RESULT	12
3.2 RADIATED EMISSIONS BELOW 1 GHZ TEST	14
3.2.1 LIMITS	14
3.2.2 MEASUREMENT INSTRUMENTS LIST	15
3.2.3 TEST PROCEDURE	15
3.2.4 DEVIATION FROM TEST STANDARD	15
3.2.5 TEST SETUP	16
3.2.6 TEST RESULT	17
3.3 RADIATED EMISSIONS ABOVE 1 GHZ TEST	19
3.3.1 LIMITS	19
3.3.2 MEASUREMENT INSTRUMENTS LIST	20
3.3.3 TEST PROCEDURE	20
3.3.4 DEVIATION FROM TEST STANDARD	20
3.3.5 TEST SETUP	21
3.3.6 TEST RESULT	22
4 TEST PHOTOS	24
5 EUT PHOTOS	27

REVISION HISTORY

Report No.	Version	Description	Issued Date
BTL-ISEDE-1-2012T163	R00	Original Report.	2021/3/9

1 SUMMARY OF TEST RESULTS

Emission			
Standard	Test Item	Limit	Judgment
ICES-003, Issue 7, October 2020	AC power line conducted emissions	Class A	PASS
	Radiated emissions below 1 GHz	Class A	PASS
	Radiated emissions above 1 GHz	Class A	PASS

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.2.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

BTL's ISED number is 20088.

No.132-1, Ln. 329, Sec. 2, Balian Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 376329 and DN: TW1010.

☒ OS02

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

The test sites and facilities are covered under FCC RN: 325517 and DN: TW1115.

☒ C03

☒ CB18

☐ CB19

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 %**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C03	CISPR	150 kHz ~ 30 MHz	3.28

B. Radiated emissions below 1 GHz test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
OS02 (10m)	CISPR	30 MHz ~ 200 MHz	V	3.84
		30 MHz ~ 200 MHz	H	3.34
		200 MHz ~ 1,000 MHz	V	3.74
		200 MHz ~ 1,000 MHz	H	3.06

C. Radiated emissions above 1 GHz test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB18 (3m)	CISPR	1 GHz ~ 6 GHz	V	4.62
		1 GHz ~ 6 GHz	H	4.62
		6 GHz ~ 18 GHz	V	4.24
		6 GHz ~ 18 GHz	H	4.06

NOTE:


Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Tested by
Conducted emissions	25°C, 59%	Loki Chiang
Radiated emissions below 1 GHz	21°C, 67%	Loki Chiang
Radiated emissions above 1 GHz	20°C, 62%	Duke Chen

2 GENERAL INFORMATION

2.1 EUT INFORMATION

Equipment	Open frame Tablet PC
Model Name	OFT-10W03, OFT-10W03XXXXXXXXXX (where "X" may be any alphanumeric character, blank or "-")
Brand Name	Avalue
Model Difference	Different model distribute to different area.
Power Source	DC Voltage supplied from AC/DC adapter. Brand / Model Name: FSP / FSP060-DHAN3
Power Rating	I/P:100-240V~, 1.8A 50-60Hz O/P:12.0V  5.0A 60.0W
Products Covered	1 * Adapter: FSP / FSP060-DHAN3
Test Model	OFT-10W03
Highest Internal Frequency	1.44 GHz
EUT Modification(s)	N/A

NOTE:

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation modes according to test plan.

Pretest Mode	Description
Mode 1	FULL SYSTEM HDMI 1280*800/60HZ

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 1	FULL SYSTEM HDMI 1280*800/60HZ

Radiated emissions below 1 GHz test	
Final Test Mode	Description
Mode 1	FULL SYSTEM HDMI 1280*800/60HZ

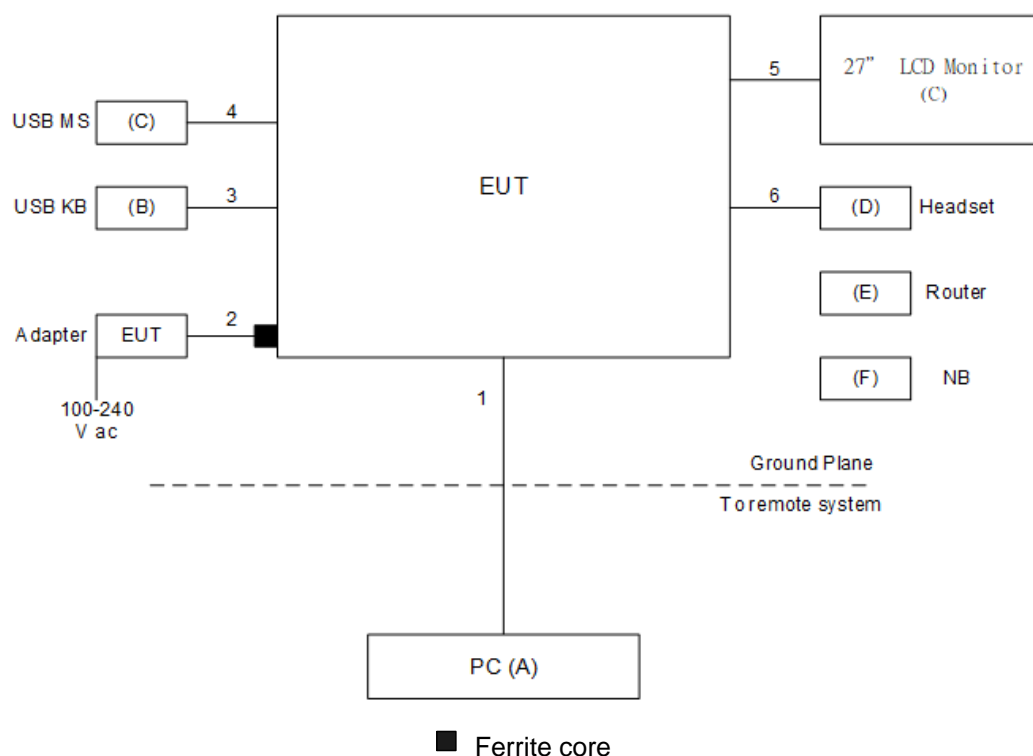
Radiated emissions above 1 GHz test	
Final Test Mode	Description
Mode 1	FULL SYSTEM HDMI 1280*800/60HZ

2.3 EUT OPERATING CONDITION

The EUT exercise program (BurninTEST V9.1) used during radiated and/or conducted emissions measurement was designed to exercise the various system components in a manner similar to a typical use.

2.4 TESTED CONFIGURATION DIAGRAM

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.5.



2.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	PC	DELL	OptiPlex 790 MT	64NJVBX	Furnished by test lab.
B	USB K/B	DELL	KB216t	CN-0W33XP-L03 00-797-05TY-A03	Furnished by test lab.
C	27" 4K Monitor	ASUS	MX27U	90LM02BB-B106 D0	Furnished by test lab.
C	USB Mouse	DELL	MOCZUL	CN-049TWY-PR C00-79E-01HA	Furnished by test lab.
D	Headset	KINYO	EM-10	N/A	Furnished by test lab.
E	Router	ASUS	RT-AC66U	E11TGG000235	Furnished by test lab.
F	Notebook PC	DELL	XPS	7Z9RGH2	Furnished by test lab.

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	RJ-45 Cable	NO	NO	10m	Type: Cat.5e / 4-pair (8-wire) Furnished by test lab.
2	Power Cable	NO	NO	1m	Supplied by test requester
3	USB Cable	YES	NO	1.7m	Type: USB 2.0 Furnished by test lab.
4	USB Cable	YES	NO	1.7m	Type: USB 2.0 Furnished by test lab.
5	HDMI Cable	YES	NO	1.7m	Type: HDMI 1.4 Furnished by test lab.
6	Audio Cable	NO	NO	1.5m	Furnished by test lab.

3 EMC EMISSION TEST

3.1 CONDUCTED EMISSIONS TEST

3.1.1 LIMITS

Frequency range (MHz)	Class A Quasi-peak (dBμV)	Class A Average (dBμV)	Class B Quasi-peak (dBμV)	Class B Average (dBμV)
0.15 – 0.5	79	66	66 to 56 *	56 to 46 *
0.5 – 5	73	60	56	46
5 – 30	73	60	60	50

NOTE:

- (1) The more stringent limit applies at transition frequencies.
- (2) The limit level in dBμV decreases linearly with the logarithm of frequency.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value – Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

3.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101339	2020/4/7	2021/4/6
2	Test Cable	EMCI	EMCCFD300-BM -BM-5000	160621	2020/5/25	2021/5/24
3	EMI Test Receiver	R&S	ESR	101854	2020/12/23	2021/12/22
4	Measurement Software	Farad	EZ EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

REMARK:

- (1) "N/A" denotes no model name, no serial no. or no calibration specified.
- (2) All calibration period of equipment list is one year.

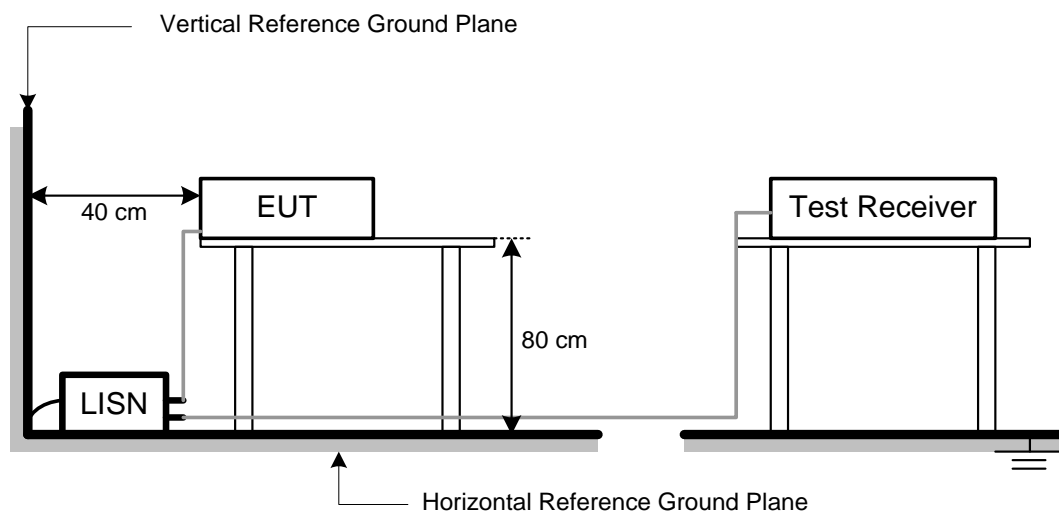
3.1.3 TEST PROCEDURE

- The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
- The EUT was placed on and insulated from the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of 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 to keep the cable above 40 cm.
- Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
The end of the cable will be terminated, using the correct terminating impedance.
The overall length shall not exceed 1 m.
- The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- The receiver was set to quasi-peak and average detect function and specified bandwidth with maximum hold mode.
- For the actual test configuration, please refer to the related Item - TEST PHOTOS.

3.1.4 DEVIATION FROM TEST STANDARD

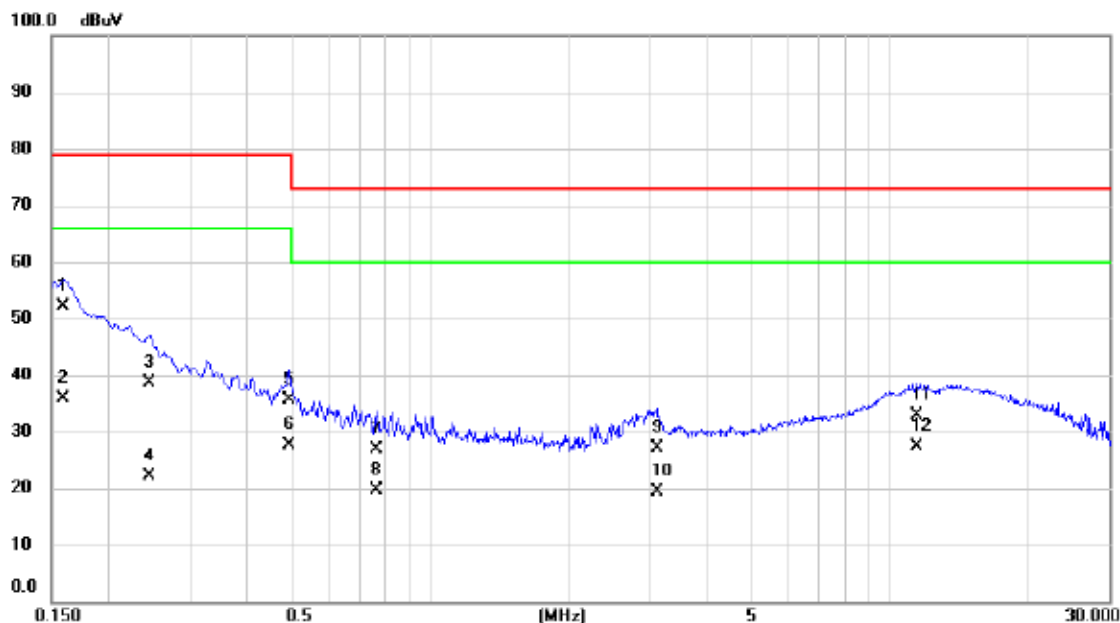
No deviation.

3.1.5 TEST SETUP



3.1.6 TEST RESULT

Test Mode	Mode 1	Tested Date	2021/1/6
Test Voltage	AC 120V/60Hz	Phase	Line



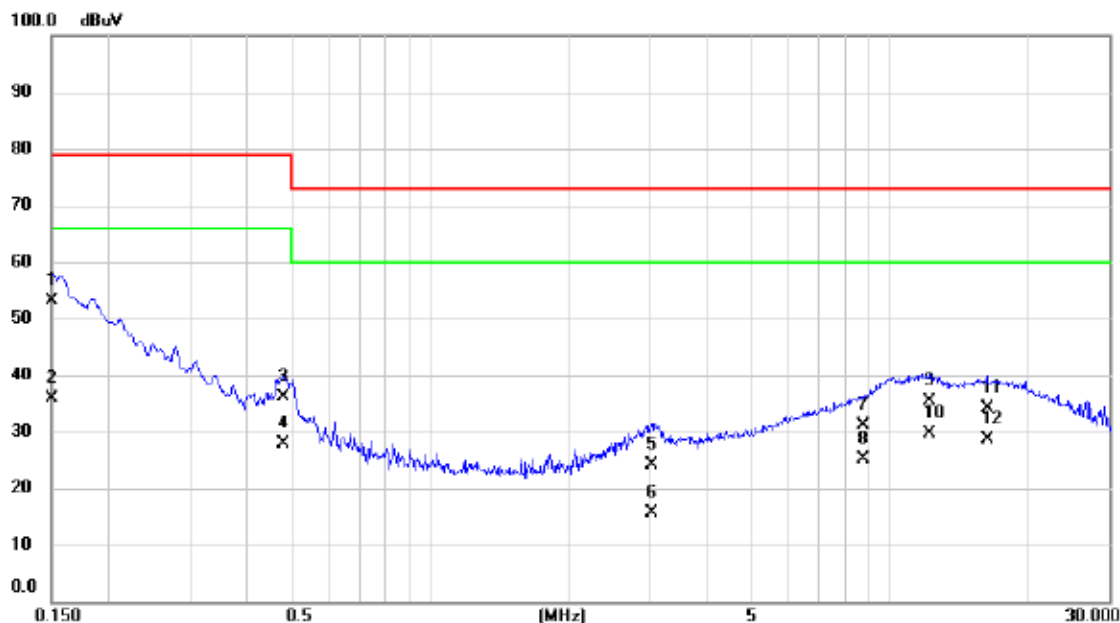
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1590	42.40	9.67	52.07	79.00	-26.93	QP	
2		0.1590	26.30	9.67	35.97	66.00	-30.03	AVG	
3		0.2445	29.00	9.66	38.66	79.00	-40.34	QP	
4		0.2445	12.40	9.66	22.06	66.00	-43.94	AVG	
5		0.4920	25.90	9.66	35.56	79.00	-43.44	QP	
6		0.4920	17.90	9.66	27.56	66.00	-38.44	AVG	
7		0.7665	17.30	9.68	26.98	73.00	-46.02	QP	
8		0.7665	9.90	9.68	19.58	60.00	-40.42	AVG	
9		3.1155	17.40	9.76	27.16	73.00	-45.84	QP	
10		3.1155	9.70	9.76	19.46	60.00	-40.54	AVG	
11		11.4383	23.00	9.84	32.84	73.00	-40.16	QP	
12		11.4383	17.50	9.84	27.34	60.00	-32.66	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Mode 1	Tested Date	2021/1/6
Test Voltage	AC 120V/60Hz	Phase	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	43.50	9.67	53.17	79.00	-25.83	QP	
2		0.1500	26.30	9.67	35.97	66.00	-30.03	AVG	
3		0.4807	26.40	9.66	36.06	79.00	-42.94	QP	
4		0.4807	18.30	9.66	27.96	66.00	-38.04	AVG	
5		3.0278	14.30	9.76	24.06	73.00	-48.94	QP	
6		3.0278	5.90	9.76	15.66	60.00	-44.34	AVG	
7		8.7563	21.40	9.85	31.25	73.00	-41.75	QP	
8		8.7563	15.30	9.85	25.15	60.00	-34.85	AVG	
9		12.1875	25.40	9.87	35.27	73.00	-37.73	QP	
10		12.1875	19.80	9.87	29.67	60.00	-30.33	AVG	
11		16.2285	24.30	9.89	34.19	73.00	-38.81	QP	
12		16.2285	18.70	9.89	28.59	60.00	-31.41	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

3.2 RADIATED EMISSIONS BELOW 1 GHZ TEST

3.2.1 LIMITS

Frequency range (MHz)	Class A (3 m) Quasi-peak (dB μ V/m)	Class A (10 m) Quasi-peak (dB μ V/m)	Class B (3 m) Quasi-peak (dB μ V/m)	Class B (10 m) Quasi-peak (dB μ V/m)
30 – 88	50.0	40.0	40.0	30.0
88 – 216	54.0	43.5	43.5	33.1
216 – 230	56.9	46.4	46.0	35.6
230 – 960	57.0	47.0	47.0	37.0
960 – 1000	60.0	49.5	54.0	43.5

Required highest measurement frequency for radiated emissions

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108$ MHz	1 GHz
$108 \text{ MHz} < F_X \leq 500$ MHz	2 GHz
$500 \text{ MHz} < F_X \leq 1$ GHz	5 GHz
$F_X > 1$ GHz	5 x F_X up to a maximum of 40 GHz

NOTE:

- The more stringent limit applies at transition frequencies.
- F_X is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.
- Emission level (dB μ V/m) = 20log Emission level (uV/m).
3 m Emission level = 10 m Emission level + 20log(10 m/3 m).
- The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
19.11	+	2.11	=	21.22

Measurement Value		Limit Value		Margin Level
21.22	-	40	=	-18.78

3.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9168	9168-364	2020/3/9	2021/3/8
2	Attenuator	Inmet	EMCI-N-6-05	AT-N0624	2020/3/9	2021/3/8
3	Pre-Amplifier	Anritsu	MH648A	M98457	2020/10/21	2021/10/20
4	Test Cable	TIMES	LMR-400	10M-OS01	2020/10/21	2021/10/20
5	Test Cable	EMCI	EMCCFD400-NM -NM-25000	171103	2020/10/21	2021/10/20
6	EMI Test Receiver	R&S	ESCI	100080	2020/6/15	2021/6/14
7	Measurement Software	Farad	EZ_EMCI (Ver. NB-03A1-01)	N/A	N/A	N/A

REMARK:

- (1) "N/A" denotes no model name, no serial no. or no calibration specified.
- (2) All calibration period of equipment list is one year.

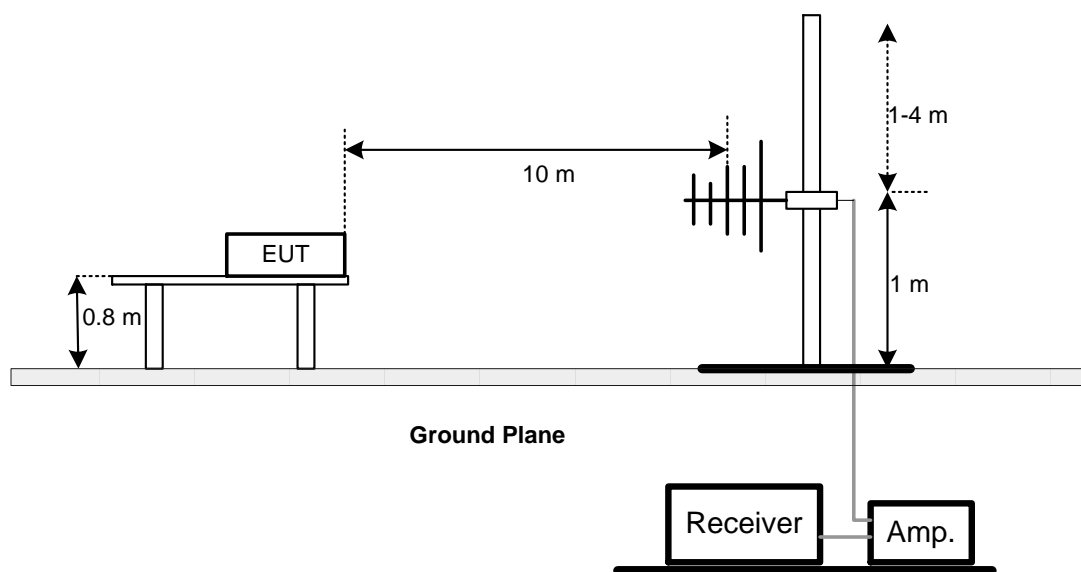
3.2.3 TEST PROCEDURE

- a. The separation distance of 10 m was used for measurements below 1 GHz.
The EUT was placed on the top of a rotating table 0.8 m above the ground in a 10 m open area test site .
- b. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the receive antenna was varied between 1 m and 4 m. Both horizontal and vertical polarizations of the antenna were checked.
- d. For each suspected emission, the EUT was arranged at its worst case and then the antenna was scanned in height to find the maximum. The tower Bore sight function was used.
- e. The receiver was set to quasi-peak detect function and specified bandwidth with maximum hold mode.
- f. For the actual test configuration, please refer to the related Item - TEST PHOTOS.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



3.2.6 TEST RESULT

Test Mode	Mode 1	Tested Date	2021/1/18
Test Voltage	AC 120V/60Hz	Polarization	Vertical

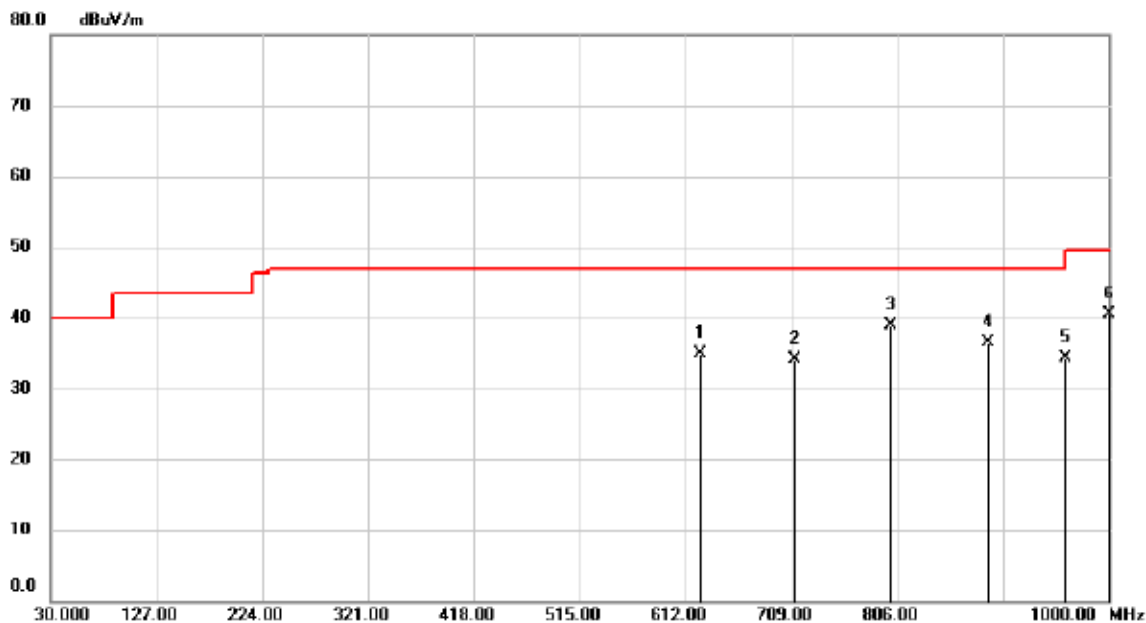


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		65.8900	28.33	-1.64	26.69	40.00	-13.31	QP	100	349
2		88.6400	32.98	-5.88	27.10	43.50	-16.40	QP	100	73
3		215.1600	28.46	-3.37	25.09	43.50	-18.41	QP	100	246
4		799.5400	22.31	10.42	32.73	47.00	-14.27	QP	100	147
5		889.6400	20.54	11.62	32.16	47.00	-14.84	QP	200	161
6	*	1000.000	23.26	13.24	36.50	49.50	-13.00	QP	100	225

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Mode 1	Tested Date	2021/1/18
Test Voltage	AC 120V/60Hz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		625.1700	27.33	7.66	34.99	47.00	-12.01	300	351
2		712.3900	25.05	9.07	34.12	47.00	-12.88	300	208
3	*	799.6400	28.46	10.41	38.87	47.00	-8.13	300	139
4		889.6300	24.94	11.62	36.56	47.00	-10.44	400	182
5		960.1500	21.65	12.65	34.30	49.50	-15.20	300	236
6		1000.000	27.19	13.24	40.43	49.50	-9.07	300	188

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

3.3 RADIATED EMISSIONS ABOVE 1 GHz TEST

3.3.1 LIMITS

Frequency range (GHz)	Class A Average (dB μ V/m)	Class A Peak (dB μ V/m)	Class B Average (dB μ V/m)	Class B Peak (dB μ V/m)
1 – F_M	60	80	54	74

Required highest measurement frequency for radiated emissions

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108$ MHz	1 GHz
108 MHz < $F_X \leq 500$ MHz	2 GHz
500 MHz < $F_X \leq 1$ GHz	5 GHz
$F_X > 1$ GHz	5 x F_X up to a maximum of 40 GHz

NOTE:

- (1) The more stringent limit applies at transition frequencies.
- (2) F_X is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.
- (3) Emission level (dB μ V/m) = 20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
36.89	+	4.23	=	41.12

Measurement Value		Limit Value		Margin Level
41.12	-	54	=	-12.88

3.3.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Horn Antenna	Schwarzbeck	BBHA 9120 D	1297	2020/12/1	2021/11/30
2	Pre-Amplifier	EMCI	EMC012645SE	980410	2020/9/23	2021/9/22
3	Test Cable	EMCI	EMC104-SM-SM-1000	170816	2020/9/23	2021/9/22
4	Test Cable	EMCI	EMC104-SM-SM-7000	170205	2020/9/23	2021/9/22
5	Test Cable	EMCI	EMC104-SM-SM-3000	170204	2020/9/23	2021/9/22
6	Spectrum Analyzer	Agilent	N9020A	MY51160196	2020/6/29	2021/6/28
7	Measurement Software	Farad	EZ EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

REMARK:

- (1) "N/A" denotes no model name, no serial no. or no calibration specified.
- (2) All calibration period of equipment list is one year.

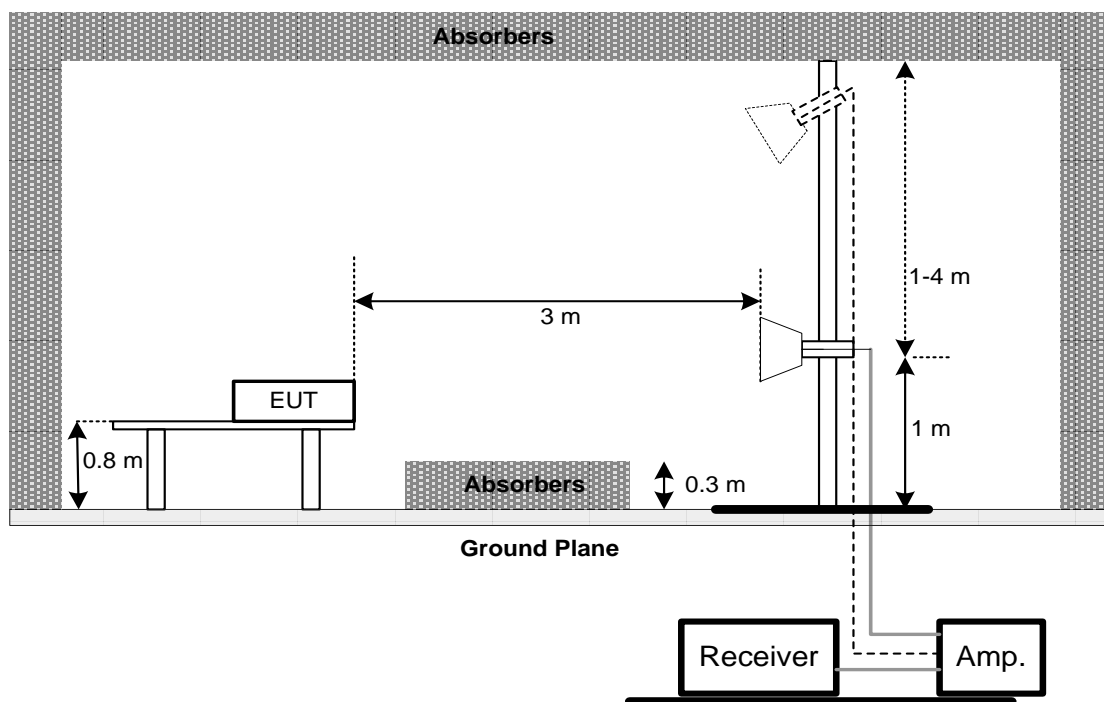
3.3.3 TEST PROCEDURE

- a. The separation distance of 3 m was used for measurements above 1 GHz.
The test limits were altered using the 20 dB/decade extrapolation factor.
The EUT was placed on the top of a rotating table 0.8 m above the ground in a 3 m semi-anechoic chamber.
- b. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the receive antenna was varied between 1 m and 4 m. Both horizontal and vertical polarizations of the antenna were checked.
- d. For each suspected emission, the EUT was arranged at its worst case and then the antenna was scanned in height to find the maximum. The tower Bore sight function was used.
- e. The receiver/spectrum analyzer was set to peak and average detect function and specified bandwidth with maximum hold mode.
- f. For the actual test configuration, please refer to the related Item - TEST PHOTOS.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 TEST RESULT

Test Mode	Mode 1	Tested Date	2021/1/8
Test Voltage	AC 120V/60Hz	Polarization	Vertical

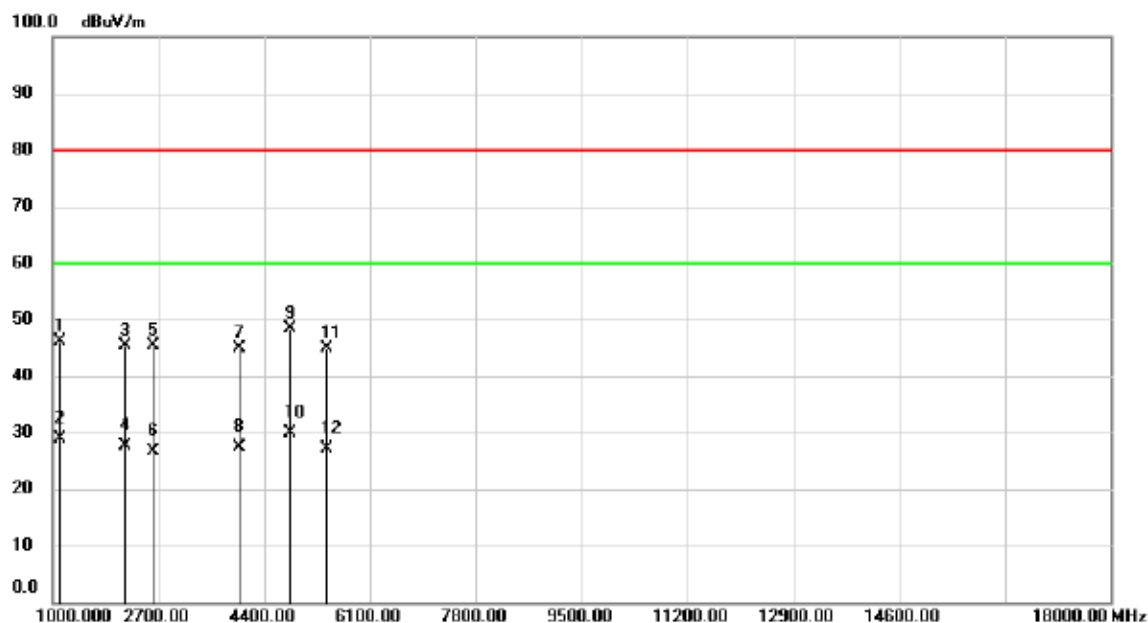


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		1119.000	67.12	-21.25	45.87	80.00	-34.13	peak	100	241
2	*	1119.000	51.23	-21.25	29.98	60.00	-30.02	AVG	100	241
3		1595.000	65.21	-19.38	45.83	80.00	-34.17	peak	100	154
4		1595.000	45.62	-19.38	26.24	60.00	-33.76	AVG	100	154
5		2173.000	60.58	-14.76	45.82	80.00	-34.18	peak	100	208
6		2173.000	42.58	-14.76	27.82	60.00	-32.18	AVG	100	208
7		2598.000	60.54	-14.41	46.13	80.00	-33.87	peak	100	193
8		2598.000	40.69	-14.41	26.28	60.00	-33.72	AVG	100	193
9		3992.000	54.88	-10.92	43.96	80.00	-36.04	peak	100	157
10		3992.000	38.34	-10.92	27.42	60.00	-32.58	AVG	100	157
11		5403.000	53.64	-9.36	44.28	80.00	-35.72	peak	100	138
12		5403.000	35.62	-9.36	26.26	60.00	-33.74	AVG	100	138

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Mode 1	Tested Date	2021/1/8
Test Voltage	AC 120V/60Hz	Polarization	Horizontal



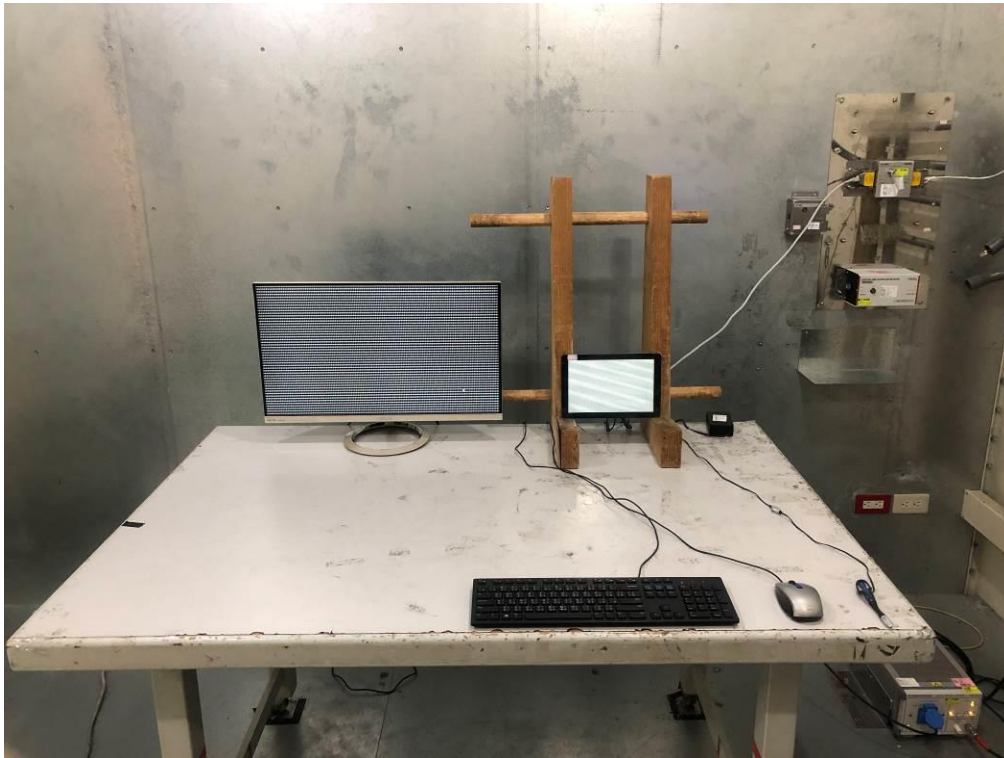
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1119.000	67.29	-21.25	46.04	80.00	-33.96	peak	100	320
2		1119.000	50.13	-21.25	28.88	60.00	-31.12	AVG	100	320
3		2173.000	60.18	-14.76	45.42	80.00	-34.58	peak	100	213
4		2173.000	42.38	-14.76	27.62	60.00	-32.38	AVG	100	213
5		2615.000	59.60	-14.29	45.31	80.00	-34.69	peak	200	217
6		2615.000	40.98	-14.29	26.69	60.00	-33.31	AVG	200	217
7		3992.000	55.69	-10.92	44.77	80.00	-35.23	peak	100	255
8		3992.000	38.29	-10.92	27.37	60.00	-32.63	AVG	100	255
9		4808.000	57.93	-9.63	48.30	80.00	-31.70	peak	100	210
10	*	4808.000	39.53	-9.63	29.90	60.00	-30.10	AVG	100	210
11		5403.000	54.19	-9.36	44.83	80.00	-35.17	peak	100	171
12		5403.000	36.37	-9.36	27.01	60.00	-32.99	AVG	100	171

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

4 TEST PHOTOS

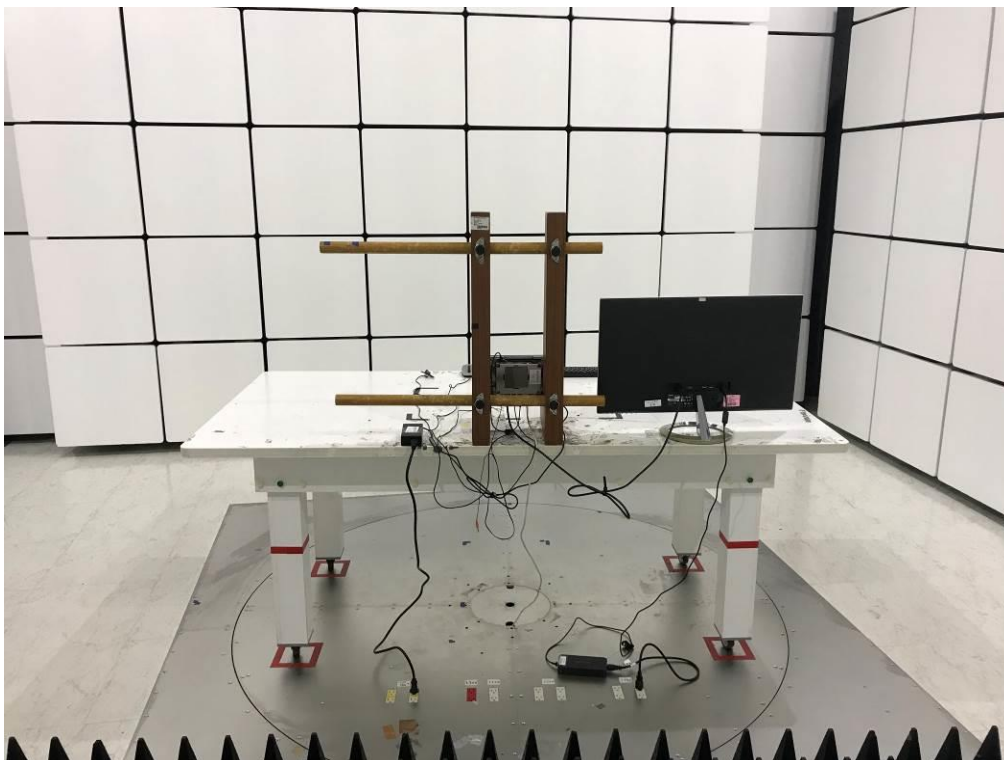
AC power line conducted emissions test photos



Radiated emissions below 1 GHz test photos



Radiated emissions above 1 GHz test photos



5 EUT PHOTOS

Please refer to document Appendix No.: EP-2012T163-1 (APPENDIX-EUT PHOTOS).

End of Test Report