

FCC TEST REPORT

REPORT NO. : FC3O1622
MODEL NO. : EX6100
RECEIVED DATE : Oct. 14, 2013
FINAL TESTED DATE : Nov. 01, 2013
ISSUED DATE : Nov. 14, 2013
TEST STANDARD : 47 CFR FCC Rules and Regulations Part 15
: Subpart B, Class B Digital Device
Canada Standard ICES-003, Issue 5, Class B
Filing Type : Certification
FCC ID : PY313200231
APPLICANT : NETGEAR, Inc.
ADDRESS : 350 East Plumeria Drive, San Jose, California
95134, USA
ISSUED BY : SPORTON International Inc.
LAB ADDRESS : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

- The test result refers exclusively to the test presented test model / sample.
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- This test report is only applicable to U.S.A. / Canada.



Testing Laboratory
1190

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History of This Test Report

REPORT NO.	VERSION	ISSUED DATE	Description
FC3O1622	Rev. 01	Nov. 14, 2013	Initial issue of report

CERTIFICATE OF COMPLIANCE

EQUIPMENT NAME : WiFi Range Extender
BRAND NAME : NETGEAR
MODEL NO. : EX6100

APPLICANT : NETGEAR, Inc.
ADDRESS : 350 East Plumeria Drive, San Jose, California
95134, USA

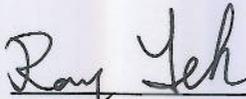
FINAL TESTED DATE : Nov. 01, 2013

TEST STANDARD : 47 CFR FCC Rules and Regulations Part 15
Subpart B, Class B Digital Device
Canada Standard ICES-003, Issue 5, Class B

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2009**.

The above equipment has been tested by **SPORTON International Inc. LAB.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMI characteristics under the conditions specified in this report.



Ray Yeh
SPORTON INTERNATIONAL INC.

1. Summary of Test Results

After estimating all the combination of every test mode, the result shown as below is the worst case.

The EUT has been tested according to the following specifications.

EMISSION			
Test Standard	Test Type	Result	Remarks
47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital Device and Canada Standard ICES-003, Issue 5, Class B	AC Power Port Conducted emission test 150 kHz – 30 MHz	PASS	Meet minimum passing margin is -14.92dB at 0.17584MHz.
	Radiated emission test 30 MHz – 1,000 MHz @ 3 m 1,000 MHz – 18,000 MHz @ 3 m 18,000 MHz – 30,000 MHz @ 1 m	PASS	Meet minimum passing margin is -3.01dB at 49.40MHz.

2. General Description of Equipment under Test

Product Detail	
Equipment Name	WiFi Range Extender
Model No.	EX6100
Brand Name	NETGEAR
Power Supply	From Internal Power Supply.

2.1. Feature of Equipment under Test

- 1. Accessories

Other
RJ-45 Cable, Non-shielded, 1.5m

- 2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2. Modification of EUT

Please refer to the Photographs of EUT.

3. Test Configuration of Equipment under Test

3.1. Test Manner

3.1.1. Test Mode

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Conducted Emissions	
Test Mode	Description
1	Laying of EUT

Radiated Emissions	
Test Mode	Description
1	Place EUT in X axis
2	Place EUT in Y axis
3	Place EUT in Z axis

For Radiated Emission test below 1GHz:
 Mode 1 generated the worst test result, so it was recorded in this report.
 For Radiated Emission test above 1GHz:
 Mode 1 generated the worst test result for Radiated emission below 1GHz test, thus the measurement for Radiated emission above 1GHz test will follow this same test configuration.

3.2. Description of Support Units

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.

For Test Site No.: CO01-CB

Support Unit	Brand	Model	FCC ID
Notebook*3	DELL	E6430	QDS-BRCM1049LE
Wireless AP	Planex	GW-AP54SGX	N/A

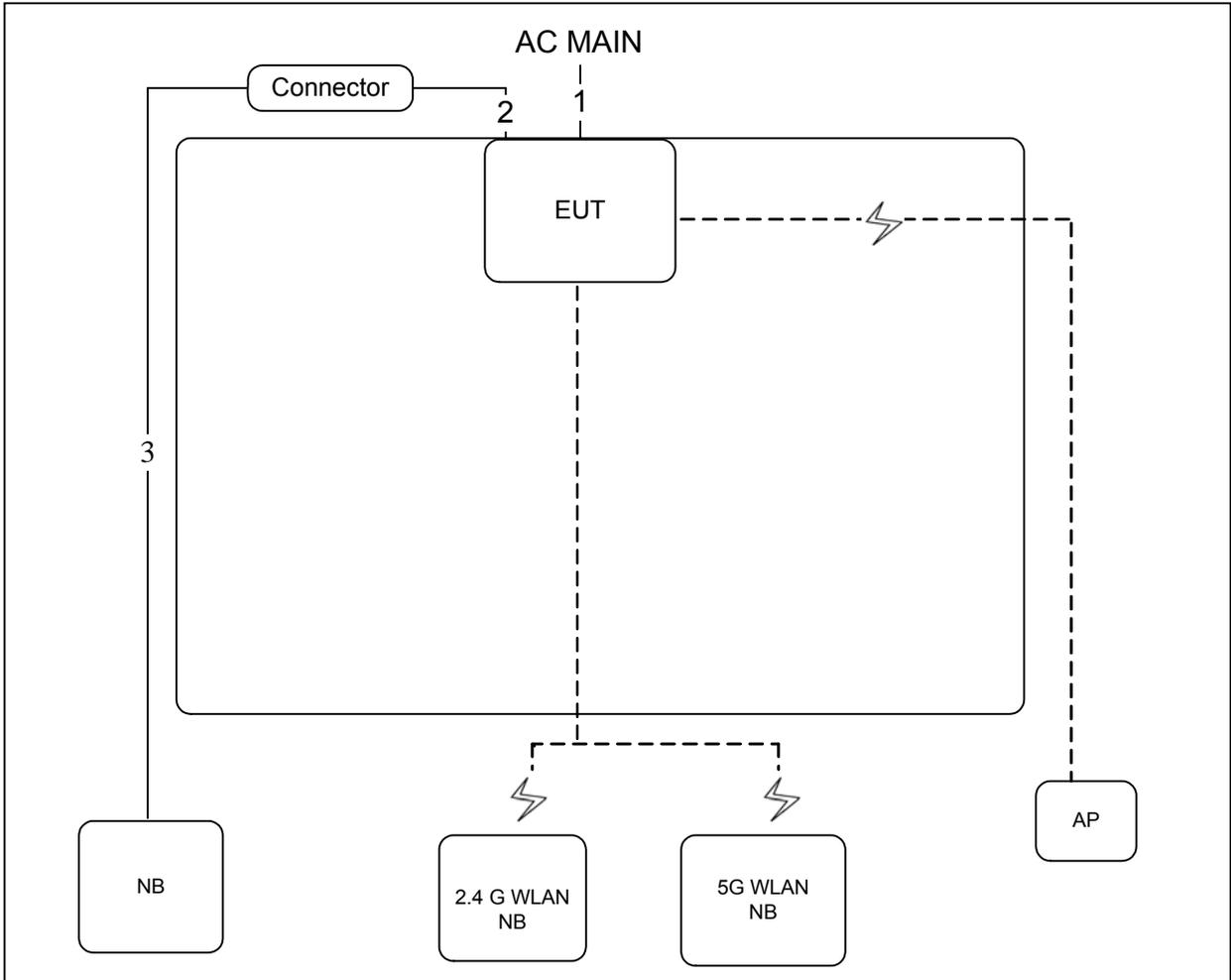
For Test Site No.: 03CH01-CB

Support Unit	Brand	Model	FCC ID
Notebook	DELL	M1340	E2K4965AGNM
Notebook	DELL	E6430	QDS-BRCM1049LE
Notebook	DELL	D420	E2KWM3945ABG
Wireless AP	Netgear	R6300V2	PY31300227

3.3. EUT Operation Condition

During the test, the EUT executed "Ping.exe" under WIN 7 to link with the remote workstation to maintain the connection by LAN and WLAN.

3.4. Connection Diagram of Test System



Item	Connection	Shielded	Length(m)
1	Power cable	No	1.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m

4. General Information of Test

4.1. Test Facility

Test Site Location : No.8, Lane 724, Bo-ai St., Jhubei City,
 Hsinchu County 302, Taiwan, R.O.C.
 TEL : 886-3-656-9065
 FAX : 886-3-656-9085
 Test Site No. : Conduction: CO01-CB
 Radiation: 03CH01-CB

4.2. Test Voltage

Power Type	Test Voltage
AC Power Supply	120 V / 60 Hz

4.3. Standard for Methods of Measurement

ANSI C63.4-2009

4.4. Frequency Range Investigated

Test Items	Frequency Range
Conducted emission test	150 kHz to 30 MHz
Radiated emission test	30 MHz to 30,000 MHz

4.5. Test Distance

Test Items	Test Distance
Radiated emission test below 1 GHz (30 MHz to 1,000 MHz)	3 m
Radiated emission test above 1 GHz (1,000 MHz to 18,000 MHz)	3 m
Radiated emission test above 1 GHz (18,000 MHz to 30,000 MHz)	1 m

5. Test of Conducted Emission

5.1. Limit

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

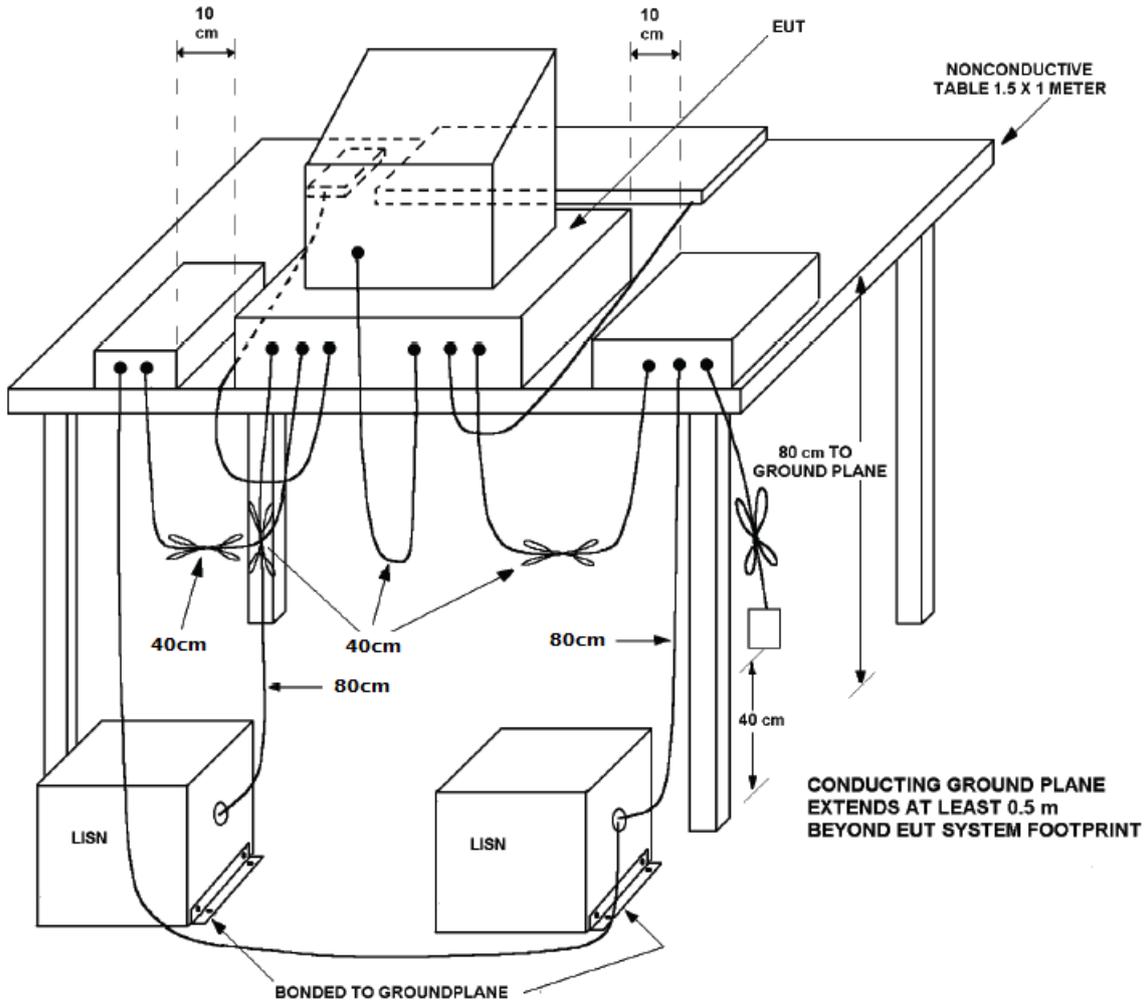
5.2. Description of Major Test Instruments

Test Receiver	R&S ESCS 30
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

5.3. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 Ω coupling impedance for the measuring instrument.
- e. The FCC states that a 50 Ω, 50 uH LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.4. Typical Test Setup Layout of Conducted Emission

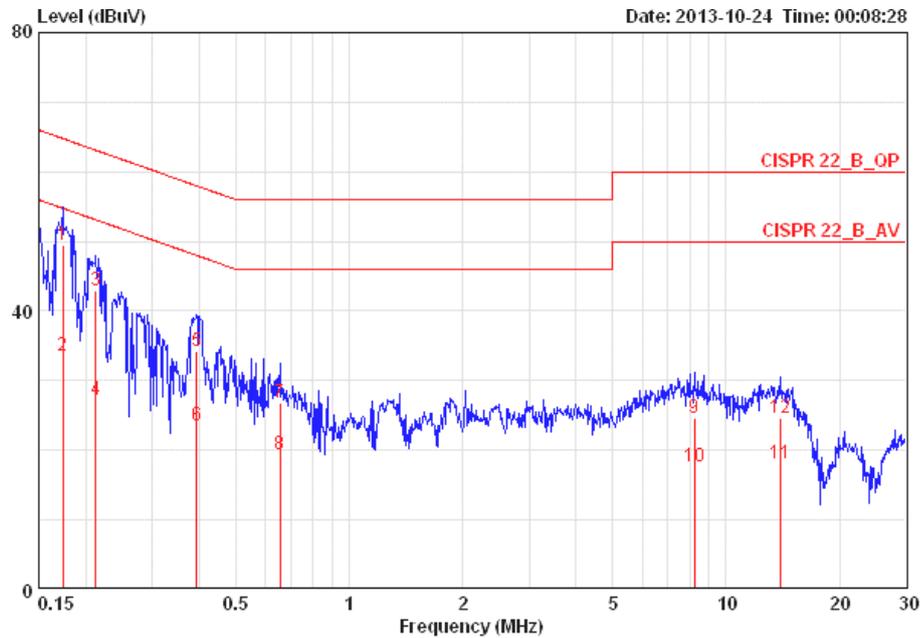


5.5. Test Result of AC Power Ports

Temperature	24°C	Humidity	55%
Test Engineer	Hank Yang	Frequency Range	0.15 MHz to 30 MHz
Test Mode	Mode 1		

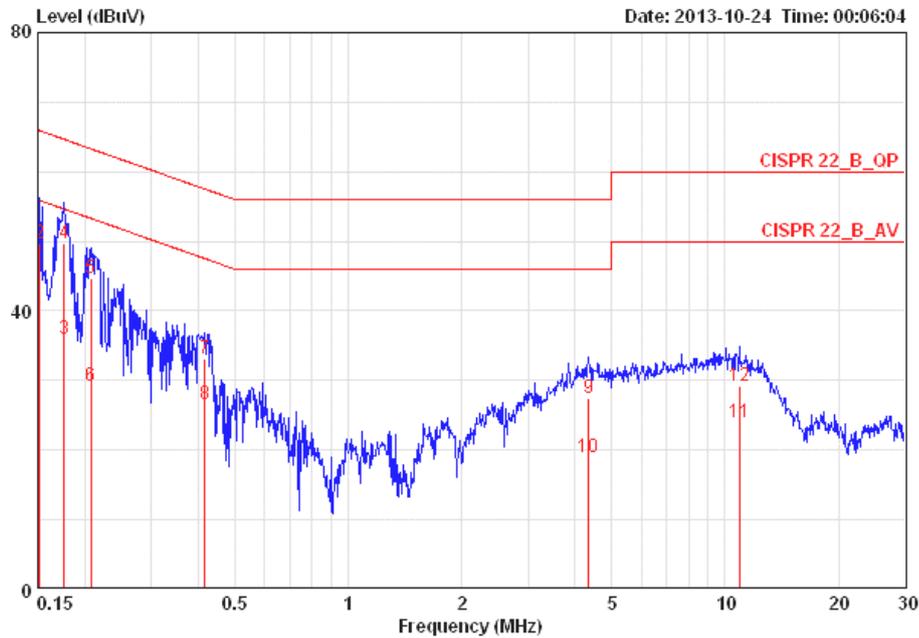
- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- All emissions not reported here are more than 10 dB below the prescribed limit.
- The test was passed at the minimum margin that marked by a frame in the following table

Line



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.17399	49.41	-15.36	64.77	49.07	0.15	0.19	LINE	QP
2	0.17399	33.56	-21.21	54.77	33.22	0.15	0.19	LINE	AVERAGE
3	0.21279	42.97	-20.13	63.10	42.62	0.15	0.20	LINE	QP
4	0.21279	27.14	-25.96	53.10	26.79	0.15	0.20	LINE	AVERAGE
5	0.39344	34.24	-23.75	57.99	33.89	0.15	0.20	LINE	QP
6	0.39344	23.50	-24.49	47.99	23.15	0.15	0.20	LINE	AVERAGE
7	0.65430	26.83	-29.17	56.00	26.47	0.16	0.20	LINE	QP
8	0.65430	19.48	-26.52	46.00	19.12	0.16	0.20	LINE	AVERAGE
9	8.235	24.61	-35.39	60.00	24.01	0.30	0.30	LINE	QP
10	8.235	17.57	-32.43	50.00	16.97	0.30	0.30	LINE	AVERAGE
11	13.915	18.03	-31.97	50.00	17.24	0.39	0.40	LINE	AVERAGE
12	13.915	24.54	-35.46	60.00	23.75	0.39	0.40	LINE	QP

Neutral



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.15160	28.30	-27.61	55.91	28.04	0.08	0.18	NEUTRAL	AVERAGE
2	0.15160	49.78	-16.13	65.91	49.52	0.08	0.18	NEUTRAL	QP
3	0.17584	35.92	-18.76	54.68	35.65	0.08	0.19	NEUTRAL	AVERAGE
4	0.17584	49.76	-14.92	64.68	49.49	0.08	0.19	NEUTRAL	QP
5	0.20723	44.72	-18.60	63.32	44.44	0.08	0.20	NEUTRAL	QP
6	0.20723	29.13	-24.19	53.32	28.85	0.08	0.20	NEUTRAL	AVERAGE
7	0.41705	33.08	-24.43	57.51	32.80	0.08	0.20	NEUTRAL	QP
8	0.41705	26.52	-20.99	47.51	26.24	0.08	0.20	NEUTRAL	AVERAGE
9	4.338	27.41	-28.59	56.00	26.97	0.14	0.31	NEUTRAL	QP
10	4.338	19.04	-26.96	46.00	18.60	0.14	0.31	NEUTRAL	AVERAGE
11	10.905	23.87	-26.13	50.00	23.24	0.25	0.38	NEUTRAL	AVERAGE
12	10.905	29.28	-30.72	60.00	28.65	0.25	0.38	NEUTRAL	QP

6. Test of Radiated Emission

6.1. Limit

Radiated Emission below 1 GHz test at 3 m:

Frequency (MHz)	QP (dBuV/m)
30~88	40
88~216	43.5
216~960	46
Above 960	54

Radiated Emission 1~18 GHz test at 3 m:

Frequency (MHz)	PK (dBuV/m)	AV (dBuV/m)
1,000 to 18,000	74	54

Radiated Emission 18~30 GHz test at 1 m:

Frequency (MHz)	PK (dBuV/m)	AV (dBuV/m)
18,000 to 30,000	83.54	63.54

6.2. Description of Major Test Instruments

6.2.1. 30 MHz ~ 1,000 MHz

Receiver Parameter	Setting
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

6.2.2. Above 1 GHz

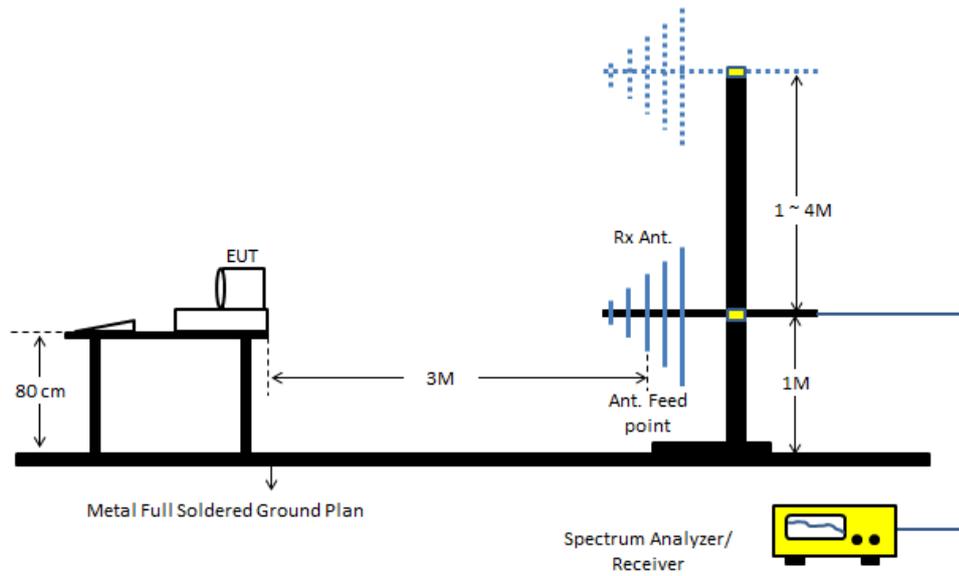
Spectrum Parameter	Setting
Start Frequency	1000 MHz
Stop Frequency	5th harmonic of highest frequency
RBW / VBW	1 MHz / 3MHz for Peak ; 1 MHz / 10Hz for Average

6.3. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3m meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

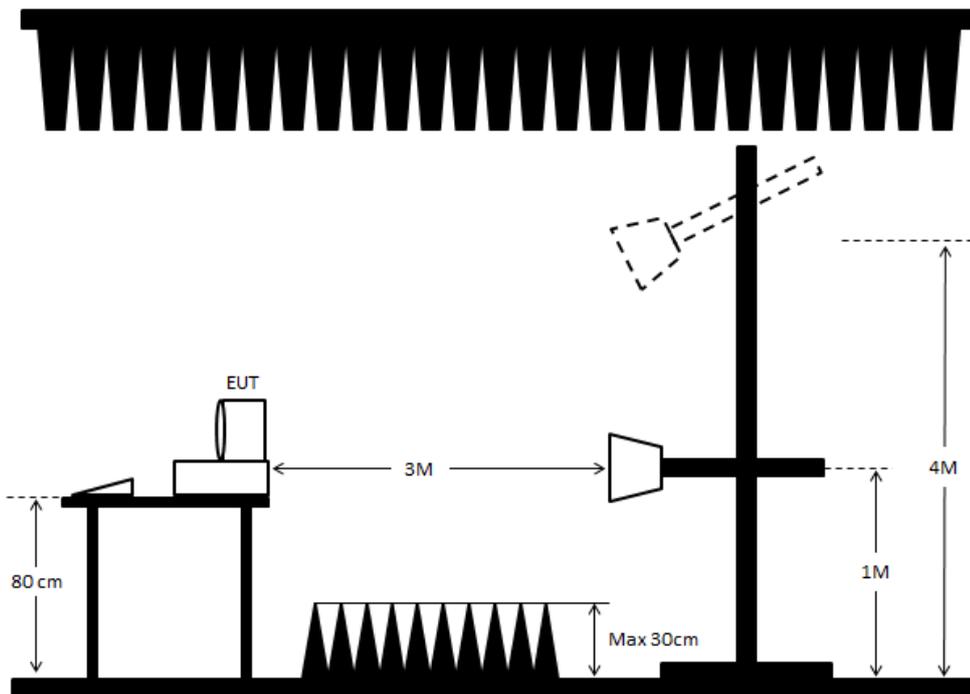
6.4. Typical Test Setup Layout of Radiated Emission

<Below 1 GHz>:

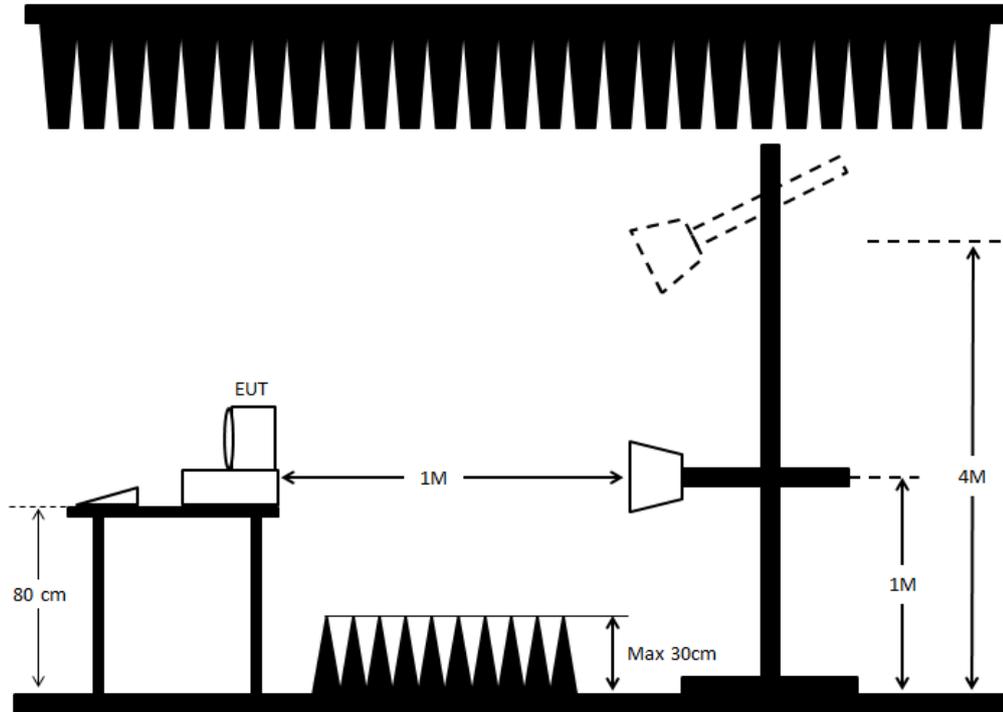


<Above 1 GHz>:

1,000~18,000 MHz



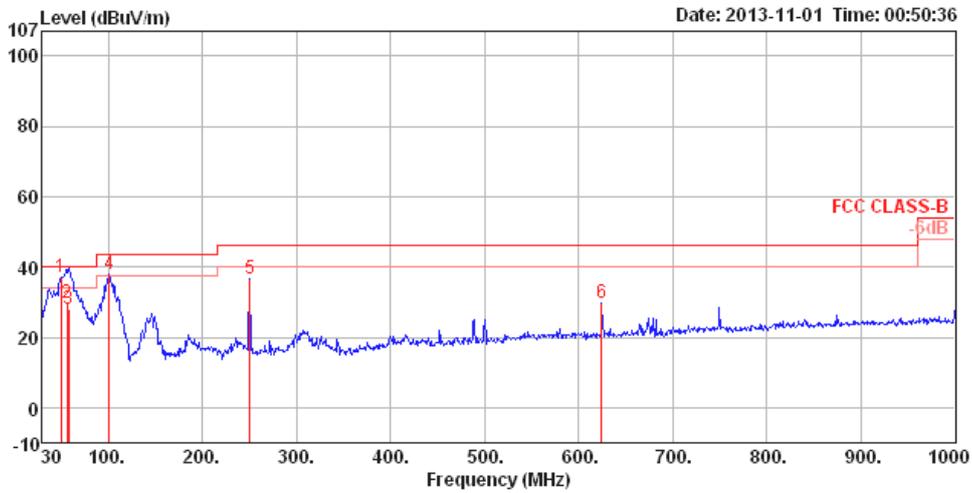
18,000~30,000 MHz



6.5. Test Result of Radiated Emission below 1 GHz

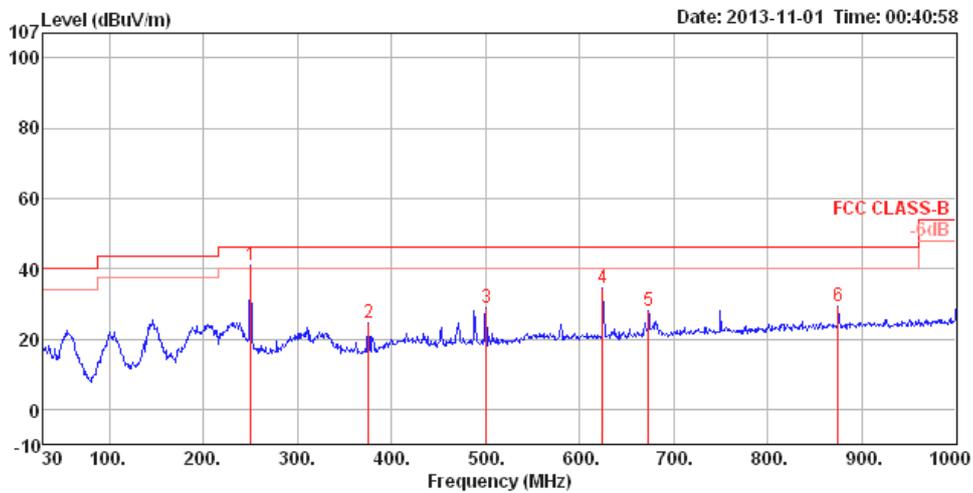
Temperature	25°C	Humidity	54%
Test Engineer	Nick Peng	Frequency Range	30 MHz to 1,000 MHz
Test Mode	Mode 1		
<ul style="list-style-type: none"> Emission level (dBuV/m) = 20 log Emission level (uV/m) Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level The test was passed at the minimum margin that marked by the frame in the following test record 			

Vertical 30 MHz to 1,000 MHz



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	49.40	36.99	40.00	-3.01	60.07	0.83	7.88	31.79	100	228	VERTICAL	Peak
2	56.19	29.89	40.00	-10.11	55.10	0.87	5.70	31.78	100	30	VERTICAL	QP
3	58.13	27.87	40.00	-12.13	53.46	0.88	5.31	31.78	125	133	VERTICAL	QP
4	100.81	38.10	43.50	-5.40	58.07	1.19	10.44	31.60	125	22	VERTICAL	Peak
5	250.19	36.66	46.00	-9.34	54.34	1.90	11.91	31.49	125	126	VERTICAL	Peak
6	624.61	29.87	46.00	-16.13	39.48	3.18	18.61	31.40	150	88	VERTICAL	Peak

Horizontal 30 MHz to 1,000 MHz



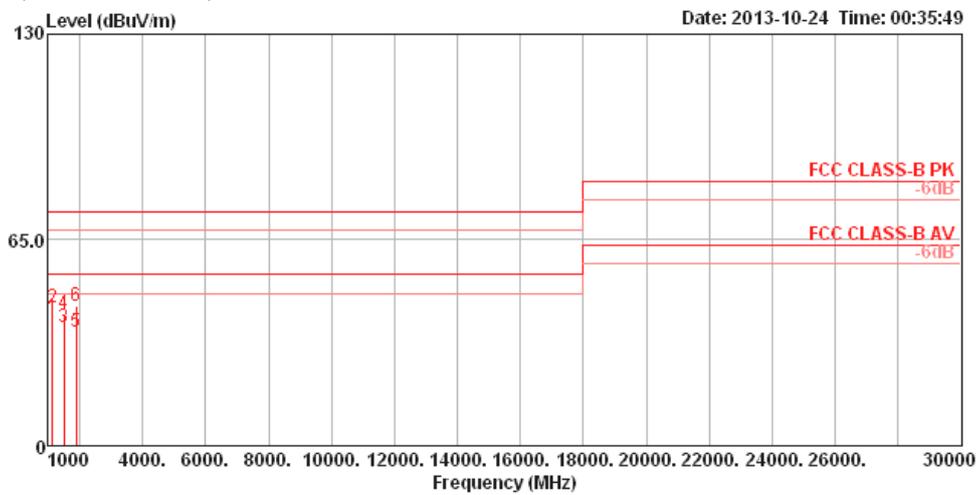
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	250.19	40.78	46.00	-5.22	58.46	1.90	11.91	31.49	150	44	HORIZONTAL Peak
2	375.32	24.58	46.00	-21.42	38.64	2.44	14.93	31.43	100	64	HORIZONTAL Peak
3	500.45	28.79	46.00	-17.21	40.46	2.82	16.92	31.41	150	201	HORIZONTAL Peak
4	624.61	34.61	46.00	-11.39	44.22	3.18	18.61	31.40	150	78	HORIZONTAL Peak
5	673.11	28.17	46.00	-17.83	37.41	3.32	18.81	31.37	100	34	HORIZONTAL Peak
6	874.87	29.43	46.00	-16.57	36.45	3.89	20.24	31.15	150	211	HORIZONTAL Peak

6.6. Test Result of Radiated Emission above 1 GHz

Temperature	25°C	Humidity	54%
Test Engineer	Nick Peng	Frequency Range	1,000 MHz to 30,000 MHz
Test Mode	Mode 1		

- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- The test was passed at the minimum margin that marked by the frame in the following test record

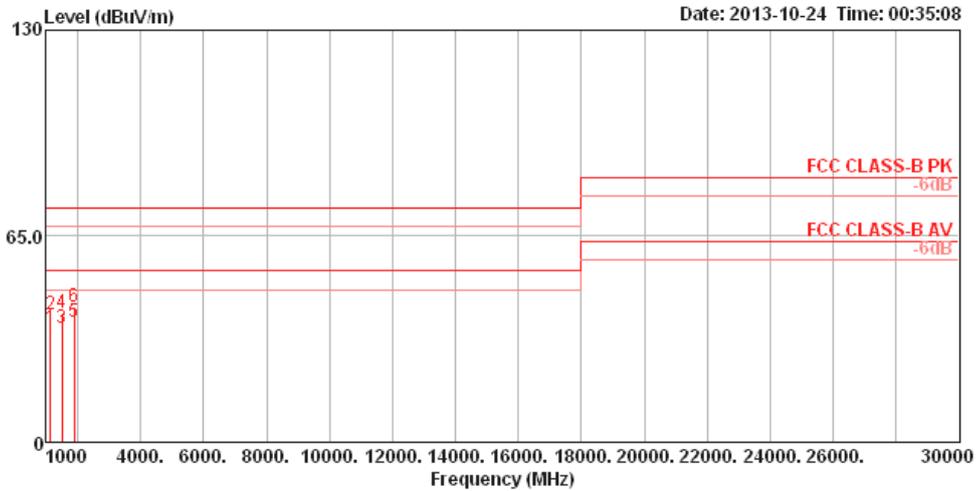
Vertical 1,000 MHz to 30,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1125.00	40.17	54.00	-13.83	51.57	2.43	24.09	37.92	100	271	VERTICAL	Average
2	1125.00	43.53	74.00	-30.47	54.93	2.43	24.09	37.92	100	271	VERTICAL	Peak
3	1500.10	37.46	54.00	-16.54	46.10	2.84	25.70	37.18	100	172	VERTICAL	Average
4	1500.10	41.64	74.00	-32.36	50.28	2.84	25.70	37.18	100	172	VERTICAL	Peak
5	1875.10	35.89	54.00	-18.11	41.83	3.31	26.85	36.10	100	352	VERTICAL	Average
6	1875.10	44.19	74.00	-29.81	50.13	3.31	26.85	36.10	100	352	VERTICAL	Peak

Horizontal 1,000 MHz to 30,000 MHz

Date: 2013-10-24 Time: 00:35:08



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	1125.00	35.79	54.00	-18.21	47.19	2.43	24.09	37.92	100	187 HORIZONTAL	Average
2	1125.00	40.45	74.00	-33.55	51.85	2.43	24.09	37.92	100	187 HORIZONTAL	Peak
3	1500.08	35.87	54.00	-18.13	44.51	2.84	25.70	37.18	100	172 HORIZONTAL	Average
4	1500.10	40.85	74.00	-33.15	49.49	2.84	25.70	37.18	100	172 HORIZONTAL	Peak
5	1875.08	37.81	54.00	-16.19	43.80	3.31	26.80	36.10	100	177 HORIZONTAL	Average
6	1875.08	42.65	74.00	-31.35	48.64	3.31	26.80	36.10	100	177 HORIZONTAL	Peak

7. List of Measuring Equipment Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 12, 2013	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Nov. 26, 2012	Conduction (CO01-CB)
V- LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Jul. 17, 2013	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	0.15MHz~30MHz	Dec. 04, 2012	Conduction (CO01-CB)
Software	Audix	E3	5.410e	-	-	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	Apr. 16, 2013	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 27, 2012	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBEAK	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Nov. 23, 2012	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Nov. 27, 2012	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Nov. 23, 2012	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26.5GHz ~ 40GHz	Oct. 23, 2013	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP40	100056	9kHz~40GHz	Nov. 16, 2012	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 12, 2013	Radiation (03CH01-CB)
Turn Table	INN CO	CO 2000	N/A	0 ~ 360 degree	N.C.R	Radiation (03CH01-CB)
Antenna Mast	INN CO	CO2000	N/A	1 m - 4 m	N.C.R	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz - 1 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-1	N/A	1 GHz – 26.5 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-2	N/A	1 GHz – 26.5 GHz	Nov. 18, 2012	Radiation (03CH01-CB)

RF Cable-high	Woken	High Cable-3	N/A	1 GHz - 40 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-4	N/A	1 GHz - 40 GHz	Nov. 18, 2012	Radiation (03CH01-CB)

※ Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

8. Uncertainty of Test Site

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Receiver reading	0.026	dB	normal(k=2)	0.013
Cable loss	0.002	dB	normal(k=2)	0.001
AMN/LISN specification	1.200	dB	normal(k=2)	0.600
Mismatch Receiver VSWR 1= AMN/LISN VSWR 2=	-0.080	dB	U-shaped	0.060
Combined standard uncertainty $Uc(y)$				1.2
Measuring uncertainty for a level of confidence of 95% $U=2Uc(y)$				2.4

Uncertainty of Radiated Emission Measurement (30MHz ~ 1,000MHz)

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Receiver reading	±0.173	dB	K=1	0.086
Cable loss	±0.174	dB	K=2	0.087
Antenna gain	±0.169	dB	K=2	0.084
Site imperfection	±0.433	dB	Triangular	0.214
Pre-amplifier gain	±0.366	dB	K=2	0.183
Transmitter antenna	±1.200	dB	Rectangular	0.600
Signal generator	±0.461	dB	Rectangular	0.231
Mismatch	±0.080	dB	U-shape	0.040
Spectrum analyzer	±0.500	dB	Rectangular	0.250
Combined standard uncertainty $Uc(y)$				1.778
Measuring uncertainty for a level of confidence of 95% $U=2Uc(y)$				3.555

Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Receiver reading	±0.191	dB	K=1	0.095
Cable loss	±0.169	dB	K=2	0.084
Antenna gain	±0.191	dB	K=2	0.096
Site imperfection	±0.582	dB	Triangular	0.291
Pre-amplifier gain	±0.304	dB	K=2	0.152
Transmitter antenna	±1.200	dB	Rectangular	0.600
Signal generator	±0.461	dB	Rectangular	0.231
Mismatch	±0.080	dB	U-shape	0.040
Spectrum analyzer	±0.500	dB	Rectangular	0.250
Combined standard uncertainty Uc(y)				1.839
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)				3.678

Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Receiver reading	±0.186	dB	K=1	0.093
Cable loss	±0.167	dB	K=2	0.083
Antenna gain	±0.190	dB	K=2	0.095
Site imperfection	±0.488	dB	Triangular	0.244
Pre-amplifier gain	±0.269	dB	K=2	0.134
Transmitter antenna	±1.200	dB	Rectangular	0.600
Signal generator	±0.461	dB	Rectangular	0.231
Mismatch	±0.080	dB	U-shape	0.040
Spectrum analyzer	±0.500	dB	Rectangular	0.250
Combined standard uncertainty Uc(y)				1.771
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)				3.541