



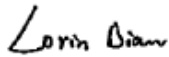
FCC PART 15 B TEST REPORT

For

HUAWEI TECHNOLOGIES CO.,LTD

Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District,
Shenzhen, 518129, P.R.C

Test Model: R250D-E
FCC ID: QISR250D-E

Report Type: Original Report	Product Name: Remote Unit
Test Engineer: <u>Lorin Bian</u>	
Report Number: <u>RDG161107002A</u>	
Report Date: <u>2016-12-23</u>	
Reviewed By: <u>Henry Ding</u> EMC Leader	
Test Laboratory: Bay Area Compliance Laboratories Corp. (Chengdu) 5040, HuiLongWan Plaza, No. 1, ShaWan Road, JinNiu District, ChengDu, China Tel: 028-65523123, Fax: 028-65525125 www.baclcorp.com	

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The **HUAWEI TECHNOLOGIES CO.,LTD** 's product, model number: **R250D-E (FCC ID: QISR250D-E)** (the "EUT") in this report was a **Remote Unit**, which was measured approximately: 8.6cm (L) x 14cm (W) x 3.6cm (H), rated input voltage: DC 48V from adapter or DC -48V from POE port. The highest operation frequency is 5825 MHz.

Adapter Information:

MODEL: HW-100-48AC14D

INPUT: 100-240Vac, 50/60Hz, 2A

OUTPUT: DC48V, 2.08A

**All measurement and test data in this report was gathered from final production sample, serial number: 161107002 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2016-11-18, and EUT conformed to test requirement.*

Objective

This test report is prepared on behalf of **HUAWEI TECHNOLOGIES CO.,LTD** in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

Related Submittal(s)/Grant(s)

FCC Part 15E NII submissions with FCC ID: QISR250D-E.

FCC Part 15C DTS submissions with FCC ID: QISR250D-E.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The uncertainty of any RF tests which use conducted method measurement is ± 3.17 dB, the uncertainty of any radiation on emissions measurement is:

30M~200MHz: ± 4.7 dB;

200M~1GHz: ± 6.0 dB;

1G~6GHz: ± 5.13 dB;

6G~25GHz: ± 5.47 dB;

And the uncertainty will not be taken into consideration for all test data recorded in the report.

Test Facility

The test site used by BACL to collect test data is located in the 5040, HuiLongWan Plaza, No. 1, ShaWan Road, JinNiu District, ChengDu, China

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

The software "winthrax.exe" was used during test.

Equipment Modifications

No modification was made to the EUT tested.

Local Support Equipment List and Details

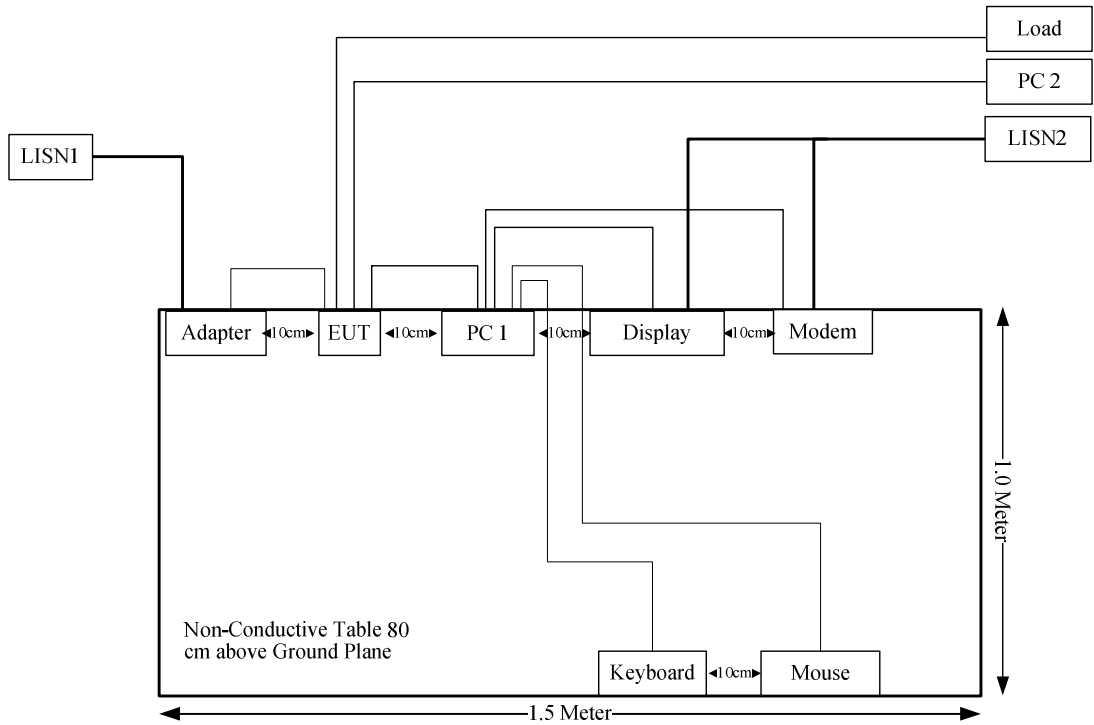
Manufacturer	Description	Model	Serial Number
IBM	PC 1	8176	99Y7315
DELL	Display	E157FPC	060229-11
ANTER	Modem	EGW802	0508350054-1B
Lenovo	Keyboard	KB-US19EB	IMHYX011071016460
Lenovo	Mouse	MO-5013U	IMJS011041409259
IBM	PC 2	8176	99Y7344
Huawei	POE adapter	PoE35-54A	/

Support Cable List and Details

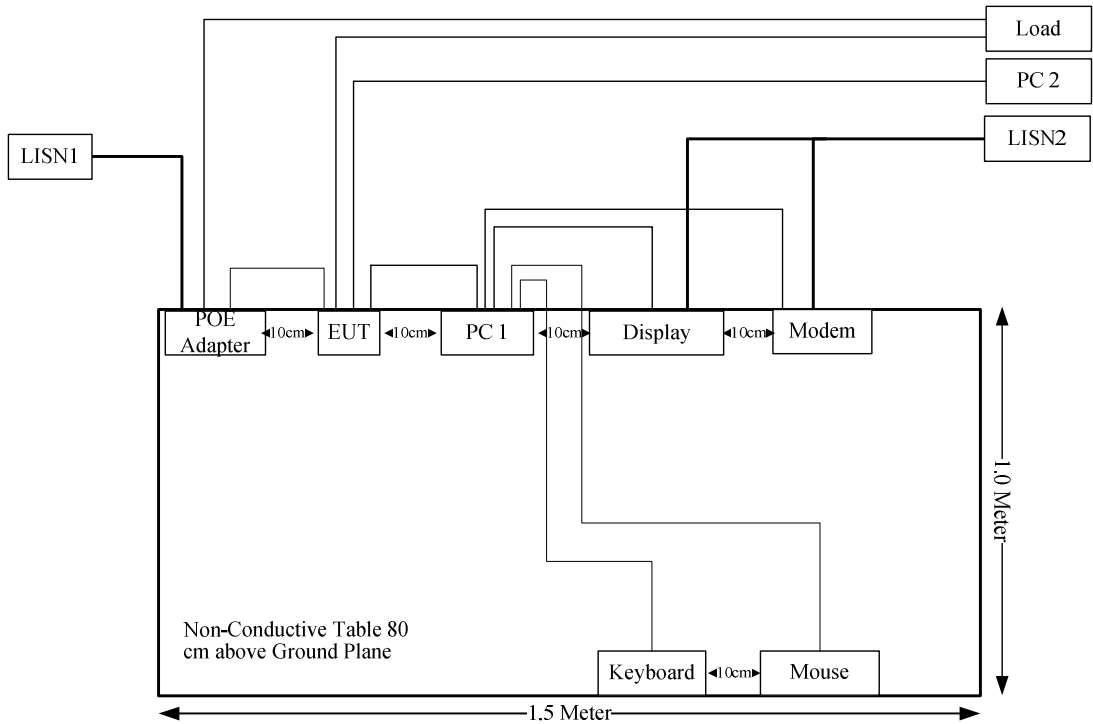
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Serial Cable	yes	No	1.6	Serial Port of PC 1	Modem
Mouse Cable	yes	No	1.4	USB Port of PC 1	Mouse
Keyboard Cable	yes	No	1.3	USB Port of PC 1	Keyboard
VGA Cable	Yes	Yes	1.5	PC 1	Monitor
RJ45 Cable	No	No	1.0	EUT	PC 1
RJ45 Cable*4	No	No	10	EUT	Load
RJ45 Cable	No	No	1.0	POE Adapter	EUT
RJ45 Cable	No	No	10	EUT	PC 2

Configuration of Test Setup

Adapter Mode:



POE Mode:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

FCC§15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

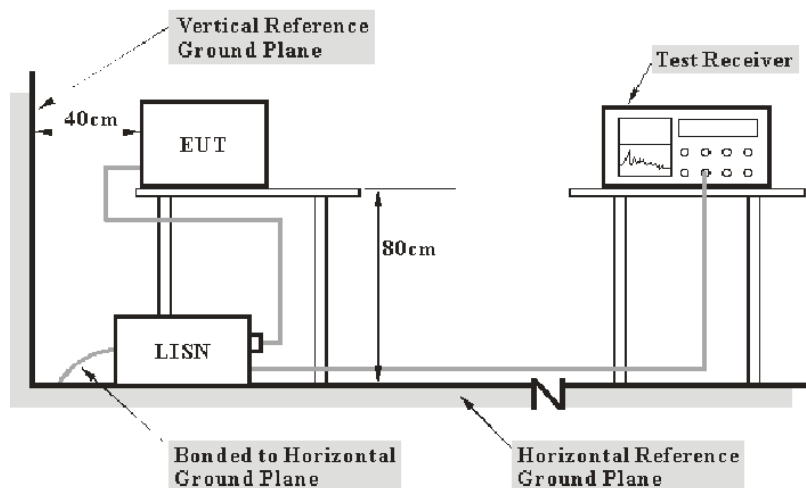
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

Based on CISPR 16-4-2:2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Chengdu) is ± 3.17 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to a 120V/60Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS 30	836858/0016	2016-12-02	2017-12-01
Rohde & Schwarz	L.I.S.N.	ENV216	3560.6550.06	2016-12-02	2017-12-01
N/A	Conducted Cable	NO.5	N/A	2016-11-10	2017-11-09
Rohde & Schwarz	PULSE LIMITER	ESH3Z2	357.8810.52	2016-10-31	2017-10-30
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter of laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

V_C : corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

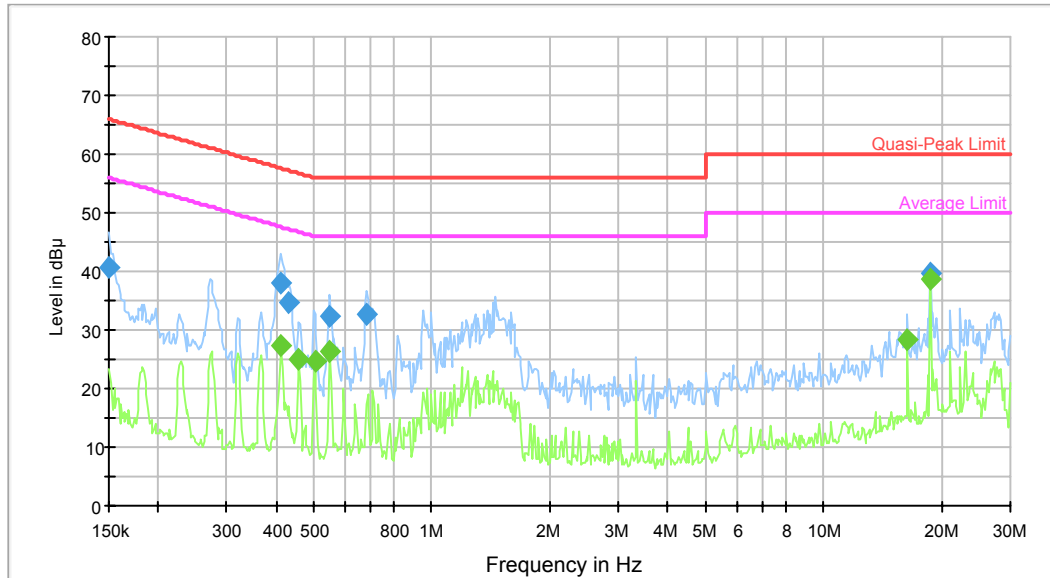
Environmental Conditions

Temperature:	25.4 °C
Relative Humidity:	32 %
ATM Pressure:	100.8 kPa

The testing was performed by Lorin Bian on 2016-12-08.

Test Mode: Operation(Adapter mode)

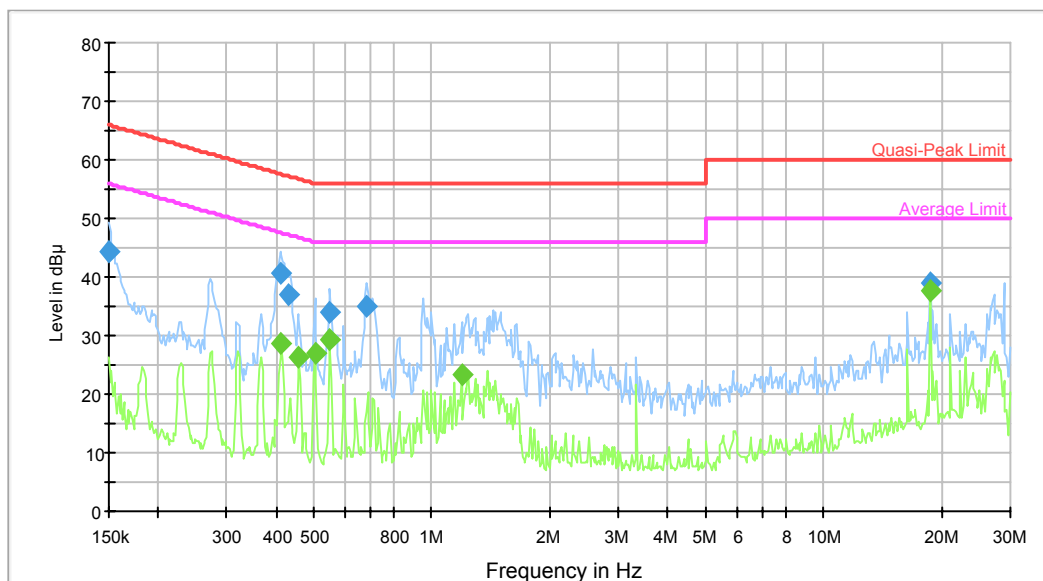
AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.150000	40.8	9.000	L1	19.7	25.2	66.0	Compliance
0.412647	38.1	9.000	L1	19.8	19.5	57.6	Compliance
0.432855	34.6	9.000	L1	19.7	22.6	57.2	Compliance
0.549741	32.5	9.000	L1	19.7	23.5	56.0	Compliance
0.681699	32.7	9.000	L1	19.7	23.3	56.0	Compliance
18.757459	39.8	9.000	L1	20.0	20.2	60.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.412647	27.5	9.000	L1	19.8	20.1	47.6	Compliance
0.457684	24.9	9.000	L1	19.7	21.8	46.7	Compliance
0.503608	24.5	9.000	L1	19.7	21.5	46.0	Compliance
0.549741	26.3	9.000	L1	19.7	19.7	46.0	Compliance
16.381172	28.2	9.000	L1	20.1	21.8	50.0	Compliance
18.757459	38.8	9.000	L1	20.0	11.2	50.0	Compliance

AC120V, 60Hz, Neutral:

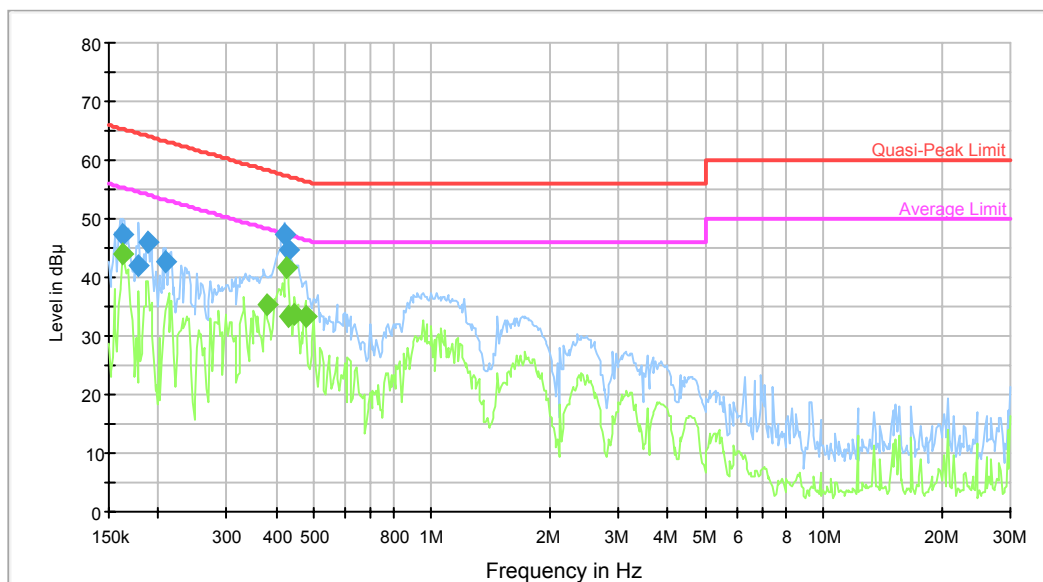


Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	44.4	9.000	N	19.7	21.6	66.0	Compliance
0.409372	40.7	9.000	N	19.6	17.0	57.7	Compliance
0.432855	37.1	9.000	N	19.6	20.1	57.2	Compliance
0.549741	34.1	9.000	N	19.6	21.9	56.0	Compliance
0.681699	35.1	9.000	N	19.6	20.9	56.0	Compliance
18.757459	39.2	9.000	N	19.9	20.8	60.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.412647	28.7	9.000	N	19.6	18.9	47.6	Compliance
0.457684	26.2	9.000	N	19.6	20.5	46.7	Compliance
0.503608	26.9	9.000	N	19.6	19.1	46.0	Compliance
0.549741	29.3	9.000	N	19.6	16.7	46.0	Compliance
1.190776	23.3	9.000	N	19.6	22.7	46.0	Compliance
18.757459	37.6	9.000	N	19.9	12.4	50.0	Compliance

Test Mode: Operation(POE mode)

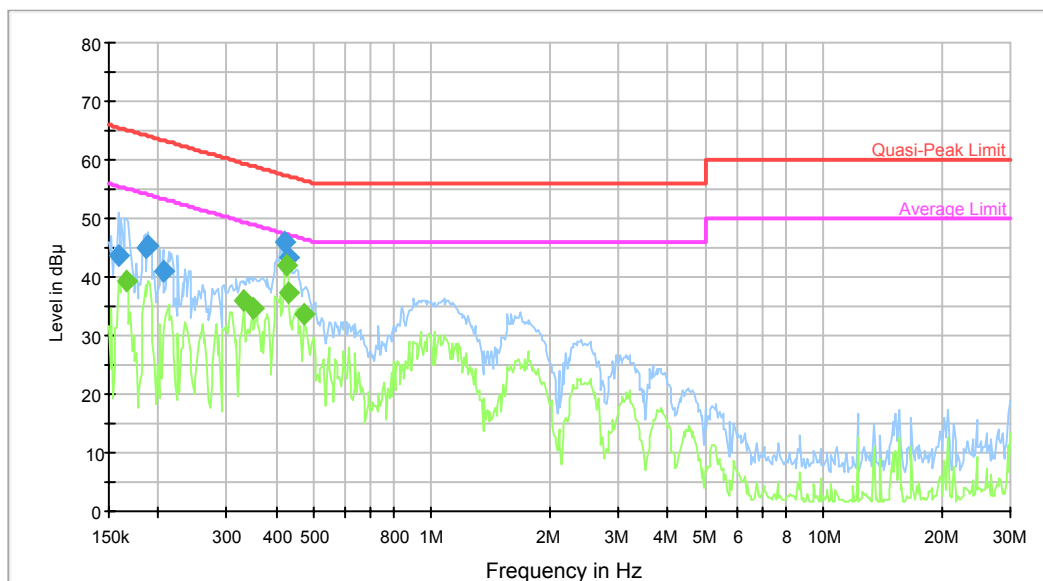
AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.162441	47.3	9.000	L1	19.7	18.0	65.3	Compliance
0.178741	41.9	9.000	L1	19.7	22.6	64.5	Compliance
0.188994	45.9	9.000	L1	19.7	18.2	64.1	Compliance
0.209621	42.5	9.000	L1	19.7	20.7	63.2	Compliance
0.422630	47.3	9.000	L1	19.8	10.1	57.4	Compliance
0.432855	44.8	9.000	L1	19.7	12.4	57.2	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.162441	44.0	9.000	L1	19.7	11.3	55.3	Compliance
0.378019	35.2	9.000	L1	19.8	13.1	48.3	Compliance
0.426011	41.8	9.000	L1	19.7	5.5	47.3	Compliance
0.432855	33.2	9.000	L1	19.7	14.0	47.2	Compliance
0.446873	33.8	9.000	L1	19.7	13.1	46.9	Compliance
0.476287	33.3	9.000	L1	19.7	13.1	46.4	Compliance

AC120V, 60Hz, Neutral:



Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.158604	43.8	9.000	N	19.7	21.7	65.5	Compliance
0.186006	44.9	9.000	N	19.6	19.3	64.2	Compliance
0.188994	45.5	9.000	N	19.6	18.6	64.1	Compliance
0.206306	41.1	9.000	N	19.6	22.3	63.4	Compliance
0.422630	46.1	9.000	N	19.6	11.3	57.4	Compliance
0.432855	43.3	9.000	N	19.6	13.9	57.2	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.166371	39.2	9.000	N	19.7	15.9	55.1	Compliance
0.332770	35.9	9.000	N	19.6	13.5	49.4	Compliance
0.349066	34.6	9.000	N	19.6	14.4	49.0	Compliance
0.426011	42.0	9.000	N	19.6	5.3	47.3	Compliance
0.432855	37.2	9.000	N	19.6	10.0	47.2	Compliance
0.472507	33.6	9.000	N	19.6	12.9	46.5	Compliance

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:

–compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
–non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp} of Table 1, then:

–compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
–non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Chengdu) is:

30M~200MHz: ± 4.7 dB;

200M~1GHz: ± 6.0 dB;

1G~6GHz: ± 5.13 dB;

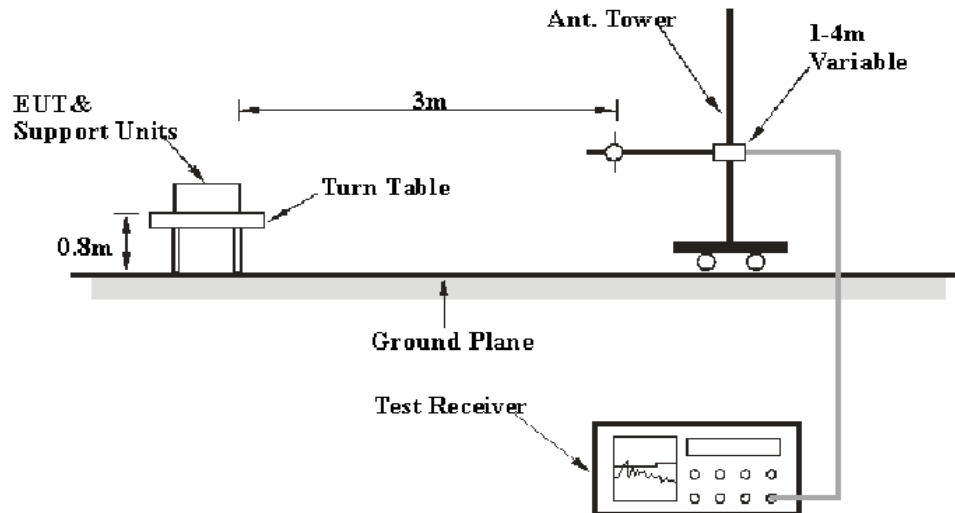
6G~25GHz: ± 5.47 dB;

Table 1 – Values of U_{cisp}

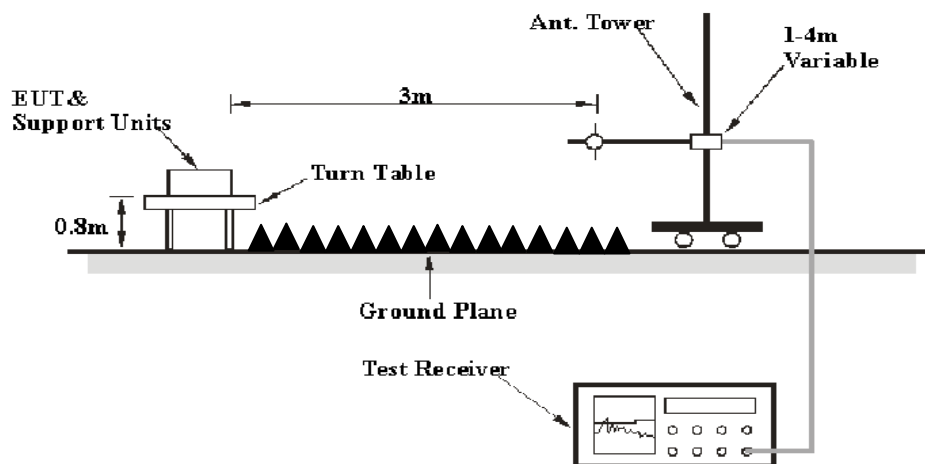
Measurement		U_{cisp}
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR)	(6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed at the 3 meters distance in chamber, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 30 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	AVG

Test Procedure

During the radiated emissions, the adapter of laptop was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A101808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2016-05-20	2017-05-19
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113 024	2014-06-16	2017-06-15
EMCT	Semi-Anechoic Chamber	966	N/A	2015-04-24	2018-04-23
N/A	RF Cable (below 1GHz)	NO.1	N/A	2016-11-10	2017-11-09
N/A	RF Cable (below 1GHz)	NO.4	N/A	2016-11-10	2017-11-09
N/A	RF Cable (above 1GHz)	NO.2	N/A	2016-11-10	2017-11-09
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1312	2016-08-18	2017-08-18
Quinstar	Amplifier	QLW-1840553 6-JO	15964001032	2016-08-18	2017-08-18
Agilent	Spectrum Analyzer	8564E	5943A01752	2016-08-18	2017-08-18

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

Environmental Conditions

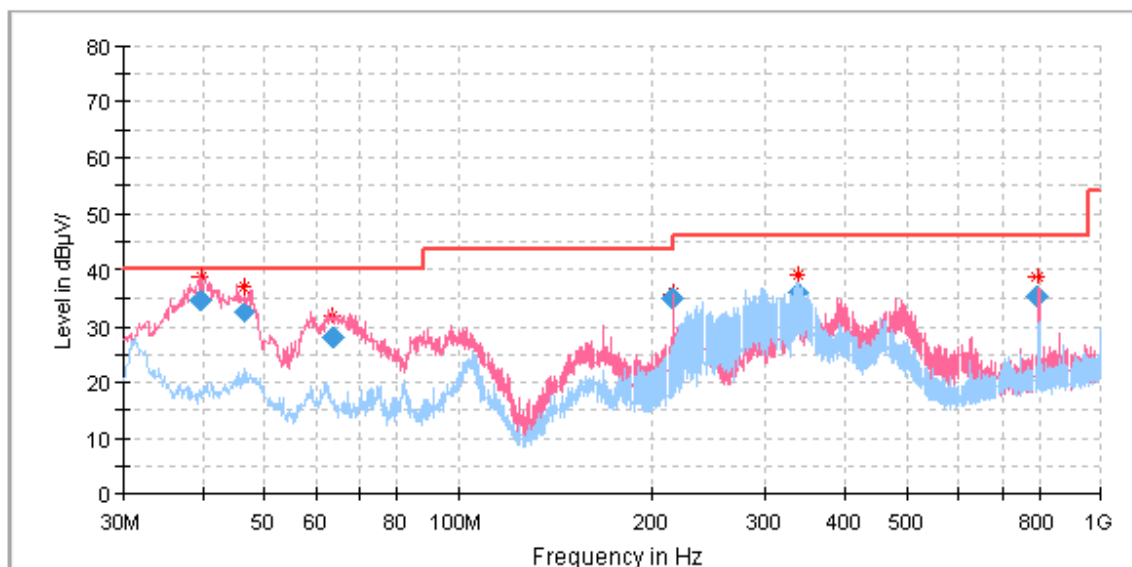
Temperature:	27.6 °C
Relative Humidity:	31 %
ATM Pressure:	101.4 kPa

** The testing was performed by Lorin Bian on 2016-12-14.*

Test Result: Compliance

Test Mode: Operation(Adapter mode)

Below 1 GHz:



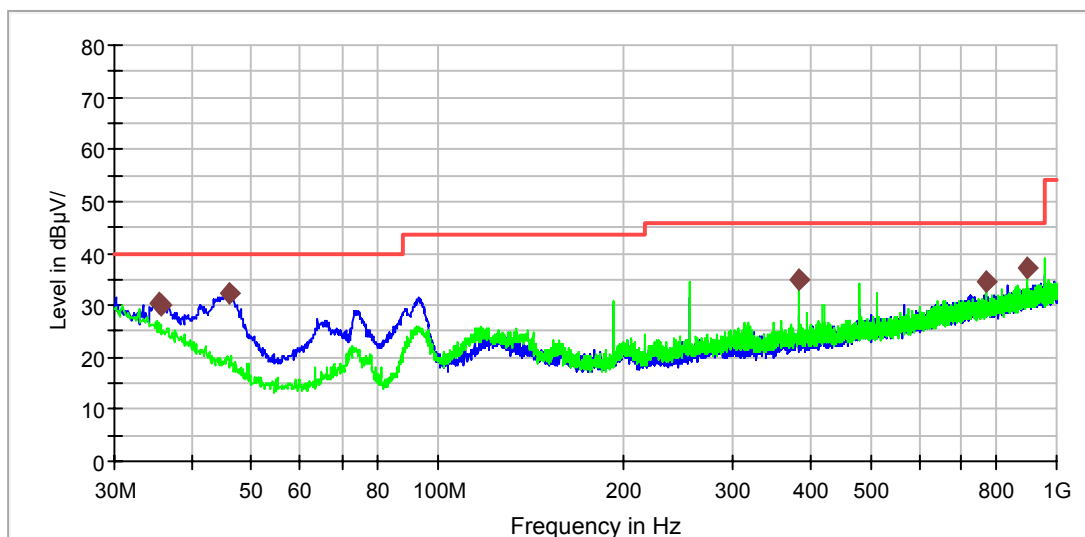
Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
39.720050	34.57	101.0	V	135.0	-12.68	5.43	40.00
46.543450	32.54	101.0	V	108.0	-17.60	7.46	40.00
63.530750	28.24	101.0	V	358.0	-20.38	11.76	40.00
215.987900	34.92	101.0	V	87.0	-15.24	8.58	43.50
338.264350	36.22	101.0	H	310.0	-11.79	9.78	46.00
796.638550	35.48	101.0	V	154.0	-4.27	10.52	46.00

Above 1 GHz:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
(MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB)					
1615.90	42.3	PK	V	24.29	2.76	26.44	42.91	74.00	31.09
1615.90	19.8	AV	V	24.29	2.76	26.44	20.41	54.00	33.59
3728.53	43.6	PK	V	27.91	4.52	26.57	49.46	74.00	24.54
3728.53	22.4	AV	V	27.91	4.52	26.57	28.26	54.00	25.74
6654.66	41.07	PK	V	33.68	6.11	26.45	54.41	74.00	19.59
6654.66	26.58	AV	V	33.68	6.11	26.45	39.92	54.00	14.08
9998.95	43.69	PK	V	37.30	7.54	26.42	62.11	74.00	11.89
9998.95	23.08	AV	V	37.30	7.54	26.42	41.50	54.00	12.50
14494.84	41.02	PK	H	41.19	7.82	24.97	65.06	74.00	8.94
14494.84	16.99	AV	H	41.19	7.82	24.97	41.03	54.00	12.97

Test Mode: Operation(POE mode)

Below 1 GHz:



Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
35.335000	30.6	100.0	V	167.0	-0.8	9.4	40.0
35.820000	30.1	100.0	V	167.0	-1.2	9.9	40.0
46.126250	32.2	100.0	V	238.0	-8.9	7.8	40.0
384.050000	34.8	100.0	H	0.0	-2.3	11.2	46.0
768.048750	34.4	100.0	H	139.0	4.0	11.6	46.0
896.088750	37.1	100.0	H	0.0	6.0	8.9	46.0

Above 1 GHz:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
1617.25	41.25	PK	V	24.29	2.76	26.44	41.86	74.00	32.14
1617.25	18.99	AV	V	24.29	2.76	26.44	19.60	54.00	34.40
3728.53	44.65	PK	V	27.91	4.52	26.57	50.51	74.00	23.49
3728.53	23.64	AV	V	27.91	4.52	26.57	29.50	54.00	24.50
6654.66	42.33	PK	V	33.68	6.11	26.45	55.67	74.00	18.33
6654.66	24.47	AV	V	33.68	6.11	26.45	37.81	54.00	16.19
9998.95	43.14	PK	V	37.30	7.54	26.42	61.56	74.00	12.44
9998.95	22.08	AV	V	37.30	7.54	26.42	40.50	54.00	13.50
14494.84	42.65	PK	H	41.19	7.82	24.97	66.69	74.00	7.31
14494.84	18.74	AV	H	41.19	7.82	24.97	42.78	54.00	11.22

******* END OF REPORT *******