FCC PART 15 B, CLASS B

TEST REPORT

For

Yealink (Xiamen) Network Technology Co., Ltd.

4th-5th Floor, South Building, NO. 63 WangHai Road, 2nd Software Park, Xiamen, China

FCC ID: T2C-T48G

Report Type:	**Product Type:**
Original Report	IP Phone

Test Engineer:	Joson Xiao
Report Number:	RSZ130828001-00
Report Date:	2013-10-18
Reviewed By:	Dick Zhang EMC Leader
Prepared By:	Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Yealink (Xiamen) Network Technology Co., Ltd.* 's product, model number: *T48G (FCC ID: T2C-T48G)* or the "EUT" in this report is an *IP Phone,* which was measured approximately: 26.5 cm (L) x 22.5 cm (W) x 5.0 cm (H), rated input voltage: DC 5V from adapter or PoE 48V power. The highest operating frequency is 200 MHz.

Adapter 1 information:
Model: OH-1015A0502000U1-VDE
Input: AC 100-240V, 50/60Hz, 350mA
Output: DC 5V, 2A

Adapter 2 information:
Model: NSA15EE-050200
Input: AC 100-240V, 50/60Hz, 0.5A
Output: DC 5V, 2.0A

**All measurement and test data in this report was gathered from production sample serial number: 1308133 (Assigned by BACL, Shenzhen). The EUT supplied by applicable was received on 2013-08-28.*

Objective

This test report is prepared on behalf of *Yealink (Xiamen) Network Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

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

Related Submittal(s)/Grant(s)

No related submittal(s)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) 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 December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. 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 manufacturer testing fashion.

EUT Exercise Software

No exercise software was used.

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

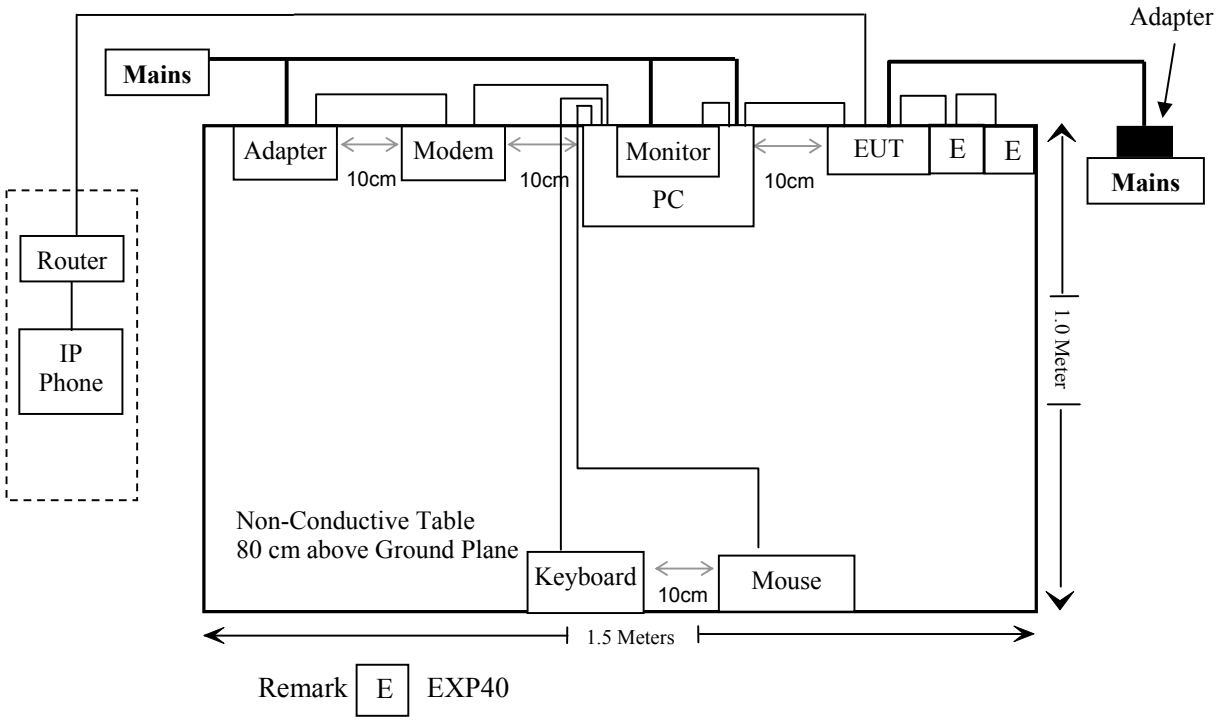
Manufacturer	Description	Model	Serial Number	Remark
DELL	PC	127BPX2	N/A	CE,RE
DELL	PC	Insprion 660	N/A	EMS,Flicker
DELL	Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH	CE,RE
DELL	Monitor	E1910Hc	N/A	EMS,Flicker
DELL	Mouse	MOC5UO	G1B0096D	CE,RE
Rapoo	Mouse	N1162	N/A	EMS,Flicker
N/A	Keyboard	KB-US819EB	N/A	CE,RE
LG	Keyboard	ACK-201A	N/A	EMS,Flicker
NETGEAR	POE	FS108P	N/A	
Sagemcom	Router	N/A	N/A	
Yealink	IP phone	T48G	N/A	
ECOM	Modem	5600pbs	N/A	
NETGEAR	Prosafe 8 port 10/100 switch with 4 port POE	FS108P	272-10168-02	

External I/O Cable

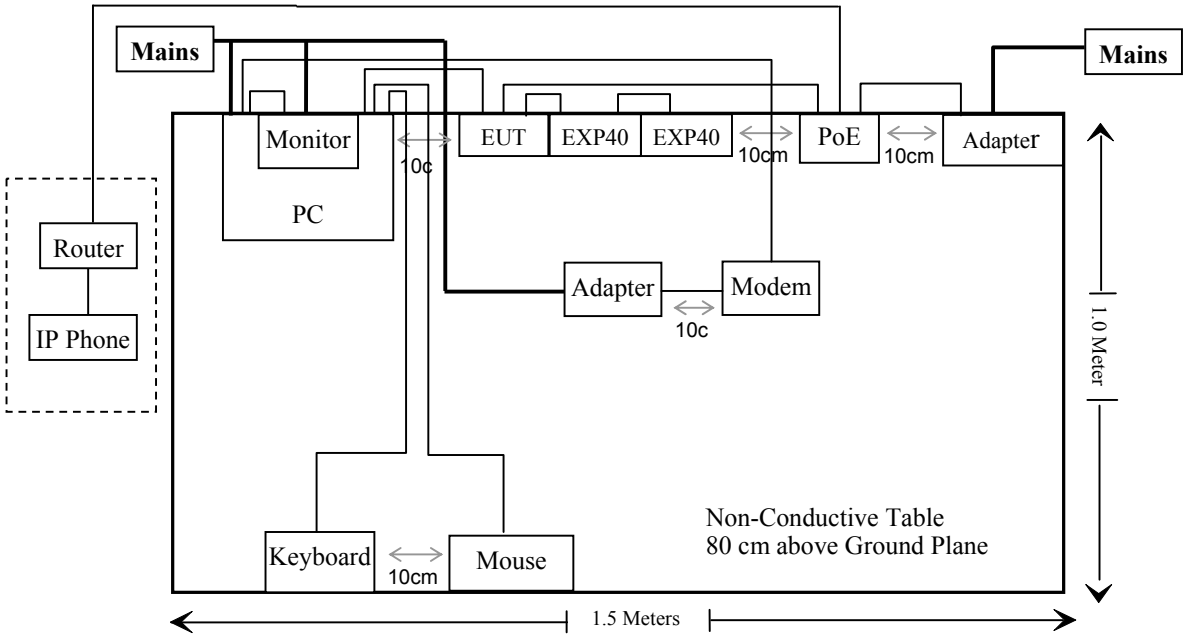
Cable Description	Length (m)	From/Port	To
Shielded Undetachable K/B Cable	1.5	K/B	PC
Shielded Undetachable Mouse Cable	1.5	Mouse	PC
Shielded Undetachable VGA Cable	1.5	Monitor	PC
Unshielded Detachable AC Cable	1.0	Main	Monitor
Unshielded Detachable RS232 Cable	1.5	Modem	PC
Shielded Detachable RJ45 Cable	2.0	EUT	PC
Unshielded Detachable RJ11 Cable	0.2	EUT	EXP40
Unshielded Detachable RJ11 Cable	0.2	EXP40	EXP40
Unshielded Detachable DC Cable	1.5	Adapter	Modem
Unshielded Detachable AC Cable	1.5	Adapter	Main
Unshielded Detachable AC Cable	1.0	Main	PC
Unshielded Detachable RJ45 Cable	1.5	Router	IP Phone
Unshielded Detachable RJ45 Cable	3.0	Router	POE
Shielded Detachable RJ45 Cable	2.0	EUT	POE
Unshielded Detachable DC Cable	0.4	Adapter	POE
Unshielded Detachable DC Cable	1.4	Mains	Adapter

Block Diagram of Test Setup

1) Adapter power supply:



2) PoE power supply:



SUMMARY OF TEST RESULTS

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

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

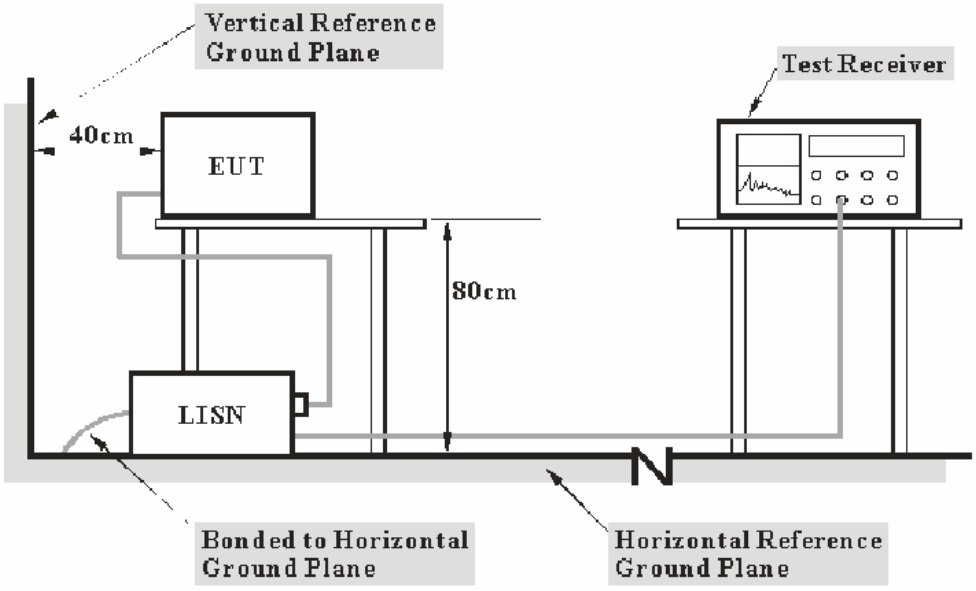
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between AMN/ISN and receiver, AMN/ISN voltage division factor, AMN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

Port	Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)

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 measurement procedure of EUT setup is according with per ANSI C63.4-2009. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz 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 Procedure

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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2013-06-17	2014-06-17
Rohde & Schwarz	LISN	ESH2-Z5	892107/021	2013-08-22	2014-08-22
Schwarzbeck	ISN Cat 5	NTFM 8158	cat 5-8158-0010	2012-11-05	2013-11-05
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2013-10-15	2014-10-15
Rohde & Schwarz	CE Test software	EMC 32	V8.53	--	--
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2013-05-07	2014-05-07

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Pulse Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

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

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, with the worst margin reading of:

5.7 dB at **3.270000 MHz** in the **Neutral** conducted mode (PoE power supply)

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr}, if L_m is less than L_{lim}, it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

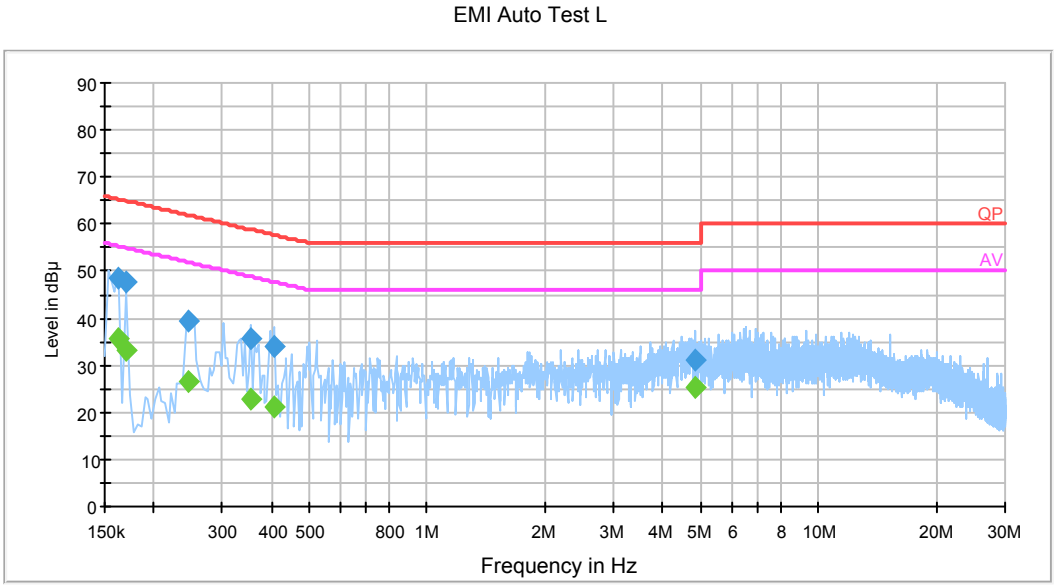
Temperature:	26 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Joson Xiao on 2013-09-05.

Test Mode: Talking

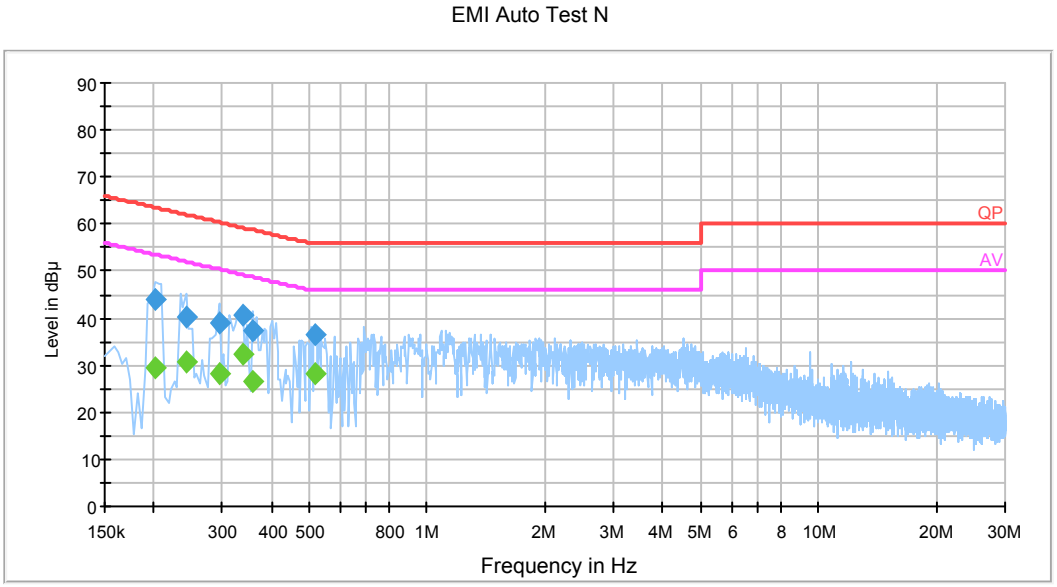
1) Adapter 1 power supply:

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.162000	48.7	19.5	65.4	16.7	QP
0.162000	35.6	19.5	55.4	19.8	Ave.
0.170000	47.8	19.5	65.0	17.2	QP
0.170000	33.3	19.5	55.0	21.7	Ave.
0.246000	39.5	19.5	61.9	22.4	QP
0.246000	26.6	19.5	51.9	25.3	Ave.
0.354000	35.6	19.5	58.9	23.3	QP
0.354000	22.7	19.5	48.9	26.2	Ave.
0.406000	33.9	19.5	57.7	23.8	QP
0.406000	21.2	19.5	47.7	26.5	Ave.
4.846000	31.3	19.6	56.0	24.7	QP
4.846000	25.4	19.6	46.0	20.6	Ave.

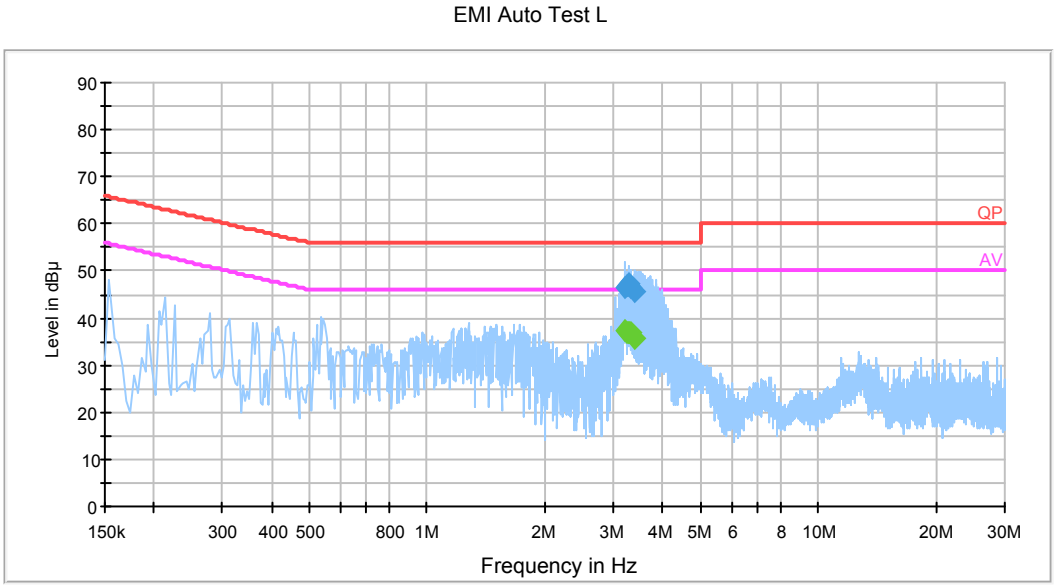
AC 120V/60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.202000	43.9	19.5	63.5	19.6	QP
0.202000	29.5	19.5	53.5	24.0	Ave.
0.242000	40.4	19.5	62.0	21.6	QP
0.242000	30.7	19.5	52.0	21.3	Ave.
0.294000	39.0	19.5	60.4	21.4	QP
0.294000	28.0	19.5	50.4	22.4	Ave.
0.338000	40.7	19.5	59.3	18.5	QP
0.338000	32.5	19.5	49.3	16.8	Ave.
0.358000	37.4	19.5	58.8	21.4	QP
0.358000	26.4	19.5	48.8	22.4	Ave.
0.518000	36.7	19.5	56.0	19.3	QP
0.518000	28.0	19.5	46.0	18.0	Ave.

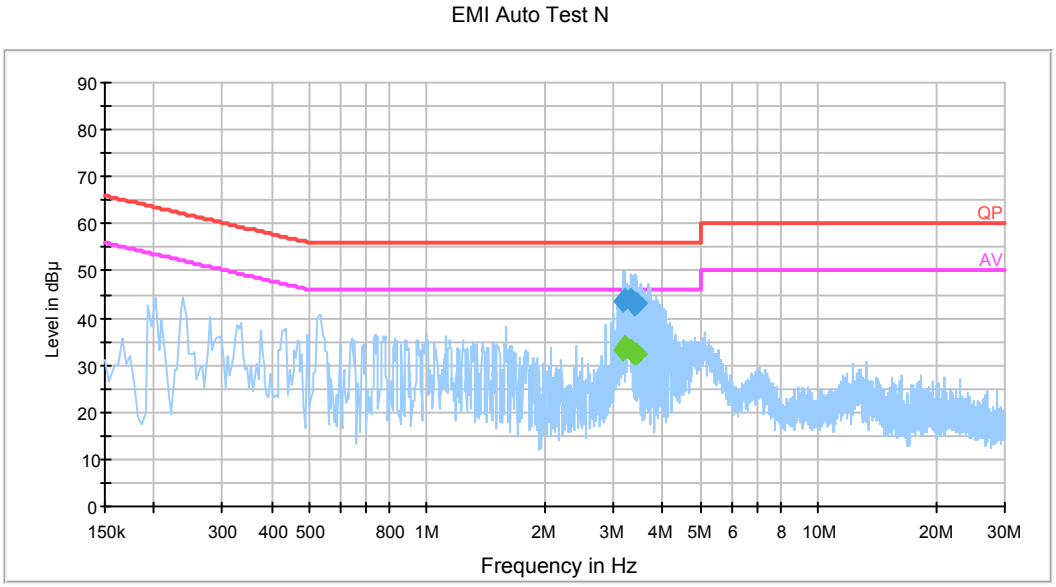
2) Adapter 2 power supply:

AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
3.210000	46.6	19.6	56.0	9.4	QP
3.210000	37.1	19.6	46.0	8.9	Ave.
3.242000	46.9	19.6	56.0	9.1	QP
3.242000	37.1	19.6	46.0	8.9	Ave.
3.262000	47.1	19.6	56.0	8.9	QP
3.262000	37.1	19.6	46.0	8.9	Ave.
3.286000	47.0	19.6	56.0	9.0	QP
3.286000	36.9	19.6	46.0	9.1	Ave.
3.318000	46.5	19.6	56.0	9.5	QP
3.318000	36.8	19.6	46.0	9.2	Ave.
3.414000	45.6	19.6	56.0	10.4	QP
3.414000	35.6	19.6	46.0	10.4	Ave.

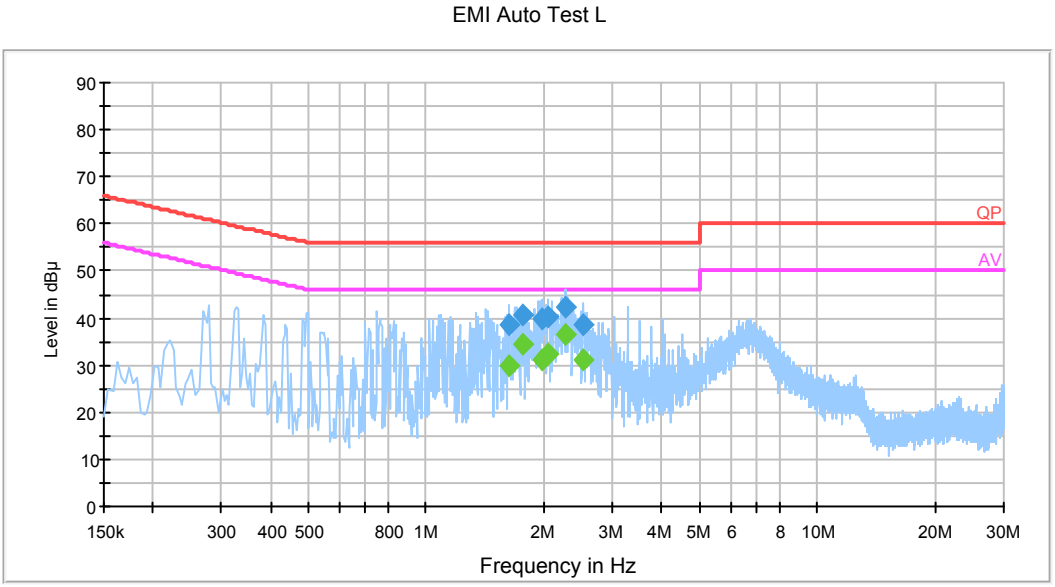
AC 120V/60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
3.166000	43.6	19.6	56.0	12.4	QP
3.166000	33.1	19.6	46.0	12.9	Ave.
3.214000	44.2	19.6	56.0	11.8	QP
3.214000	34.1	19.6	46.0	11.9	Ave.
3.334000	43.8	19.6	56.0	12.2	QP
3.334000	33.4	19.6	46.0	12.6	Ave.
3.358000	43.6	19.6	56.0	12.4	QP
3.358000	32.8	19.6	46.0	13.2	Ave.
3.414000	42.8	19.6	56.0	13.2	QP
3.414000	32.4	19.6	46.0	13.6	Ave.
3.450000	43.0	19.6	56.0	13.0	QP
3.450000	32.2	19.6	46.0	13.8	Ave.

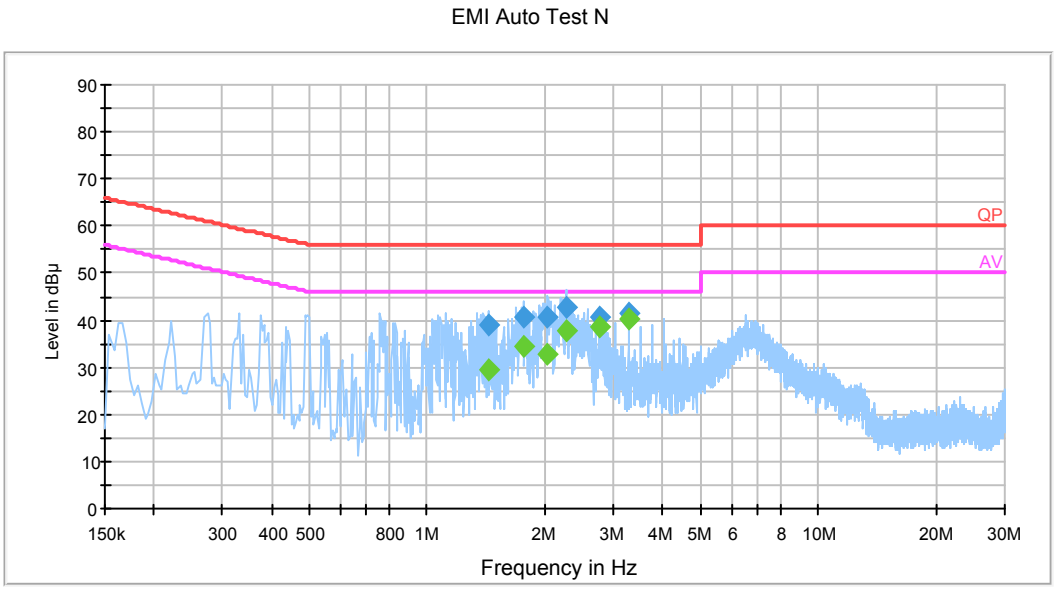
3) PoE power supply:

AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
1.634000	38.6	19.5	56.0	17.4	QP
1.634000	30.0	19.5	46.0	16.0	Ave.
1.758000	40.5	19.5	56.0	15.5	QP
1.758000	34.6	19.5	46.0	11.4	Ave.
1.970000	40.0	19.5	56.0	16.0	QP
1.970000	31.2	19.5	46.0	14.8	Ave.
2.038000	40.3	19.5	56.0	15.7	QP
2.038000	32.5	19.5	46.0	13.5	Ave.
2.266000	42.3	19.5	56.0	13.7	QP
2.266000	36.6	19.5	46.0	9.4	Ave.
2.518000	38.4	19.5	56.0	17.6	QP
2.518000	31.3	19.5	46.0	14.7	Ave.

AC 120V/60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
1.438000	39.0	19.5	56.0	17.0	QP
1.438000	29.6	19.5	46.0	16.4	Ave.
1.762000	40.7	19.5	56.0	15.3	QP
1.762000	34.5	19.5	46.0	11.5	Ave.
2.034000	40.8	19.6	56.0	15.2	QP
2.034000	32.6	19.6	46.0	13.4	Ave.
2.262000	42.9	19.6	56.0	13.1	QP
2.262000	37.9	19.6	46.0	8.1	Ave.
2.766000	40.6	19.6	56.0	15.4	QP
2.766000	38.6	19.6	46.0	7.4	Ave.
3.270000	41.5	19.6	56.0	14.5	QP
3.270000	40.3	19.6	46.0	5.7	Ave.

Note:
1) Corrected Amplitude = Reading + Correction Factor
2) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
The corrected factor has been input into the transducer of the test software.
3) Margin = Limit – Corrected Amplitude

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

According to FCC §15.109

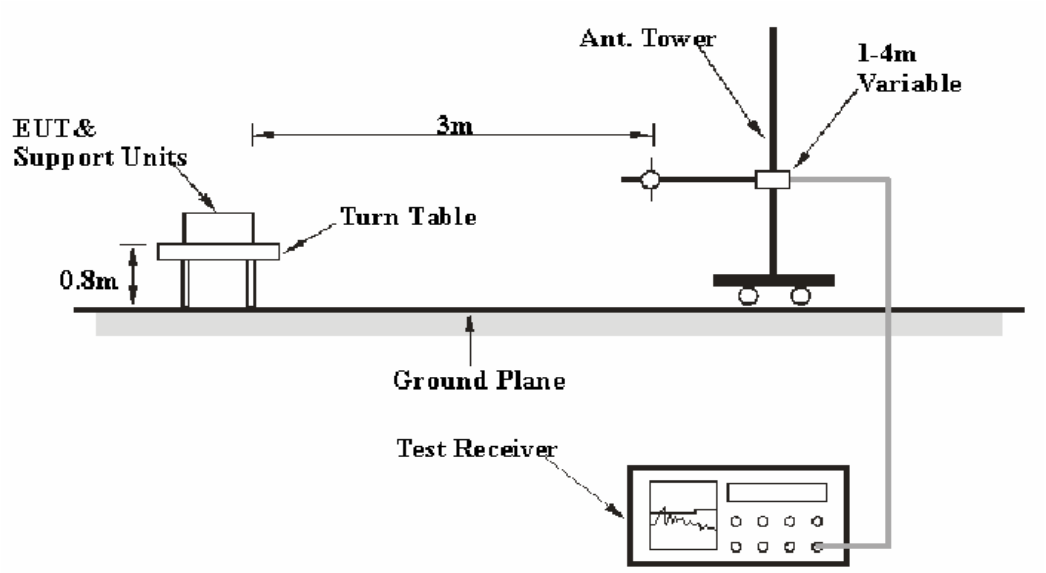
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown in below table. And the uncertainty will not be taken into consideration for the test data recorded in the report.

Frequency	Polarity	Measurement uncertainty
30MHz~200MHz	Horizontal	4.62 dB (k=2, 95% level of confidence)
	Vertical	4.54 dB (k=2, 95% level of confidence)
200MHz~1GHz	Horizontal	4.84 dB (k=2, 95% level of confidence)
	Vertical	5.91 dB (k=2, 95% level of confidence)
1 GHz~6 GHz	Horizontal/Vertical	4.68 dB (k=2, 95% level of confidence)
Above 6 GHz	Horizontal/Vertical	4.92 dB (k=2, 95% level of confidence)

EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 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 spacing between the peripherals was 10 cm.

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

EMI Test Receiver Setup

The system was investigated from 30 MHz to 2 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	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2013-09-30	2014-09-30
TDK	Chamber	Chamber A	2#	2012-10-15	2015-10-15
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2012-11-24	2013-11-24
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
TDK	Chamber	Chamber B	1#	2011-07-23	2014-07-22
Mini-Circuits	Pre-amplifier	ZVA-183-S+	5969001149	2013-04-03	2014-04-03
Sunol Sciences	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23
R&S	Auto test Software	EMC32	V8.53	--	--

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, with the worst margin reading of:

0.8 dB at **601.0245000 MHz** in the **Vertical** polarization (PoE power supply)

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr}, if L_m is less than L_{lim}, it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

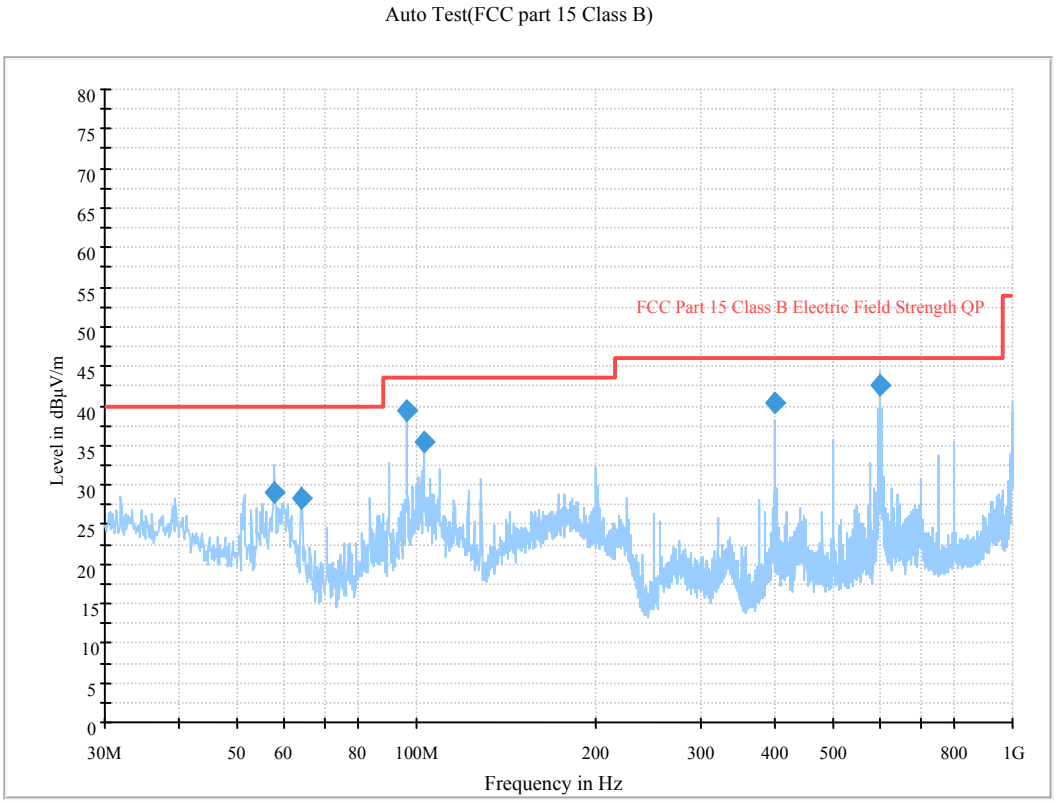
Temperature:	26 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Joson Xiao on 2013-09-05.

Test mode: Talking

1) Adapter 1 power supply:

Below 1 GHz:



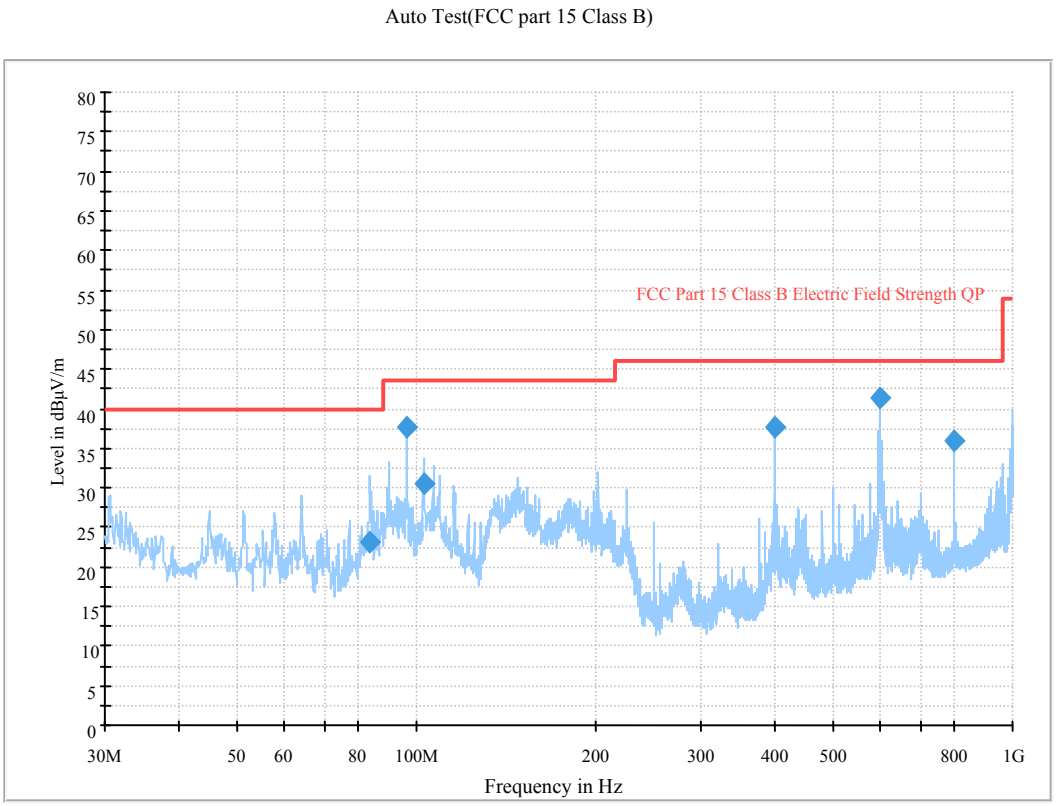
Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
57.840800	29.1	117.0	V	6.0	-20.9	40.0	10.9
63.984950	28.3	100.0	V	73.0	-20.8	40.0	11.7
96.430000	39.5	101.0	V	104.0	-18.3	43.5	4.0*
102.861800	35.4	102.0	V	73.0	-16.5	43.5	8.1
400.028300	40.4	144.0	V	135.0	-11.8	46.0	5.6*
599.034650	42.6	100.0	V	88.0	-9.4	46.0	3.4*

Above 1 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)				
2462.9	31.80	PK	88	1.2	H	7.21	39.01	74	34.99
2462.9	23.81	Ave.	88	1.2	H	7.21	31.02	54	22.98
2462.9	37.08	PK	329	1.5	V	7.21	44.29	74	29.71
2462.9	26.46	Ave.	329	1.5	V	7.21	33.67	54	20.33
4456.9	30.23	PK	268	1.5	H	11.89	42.12	74	31.88
4456.9	18.66	Ave.	268	1.5	H	11.89	30.55	54	23.45
4877.7	29.91	PK	131	1.4	V	12.46	42.37	74	31.63
4877.7	18.72	Ave.	131	1.4	V	12.46	31.18	54	22.82

2) Adapter 2 power supply:

Below 1 GHz:



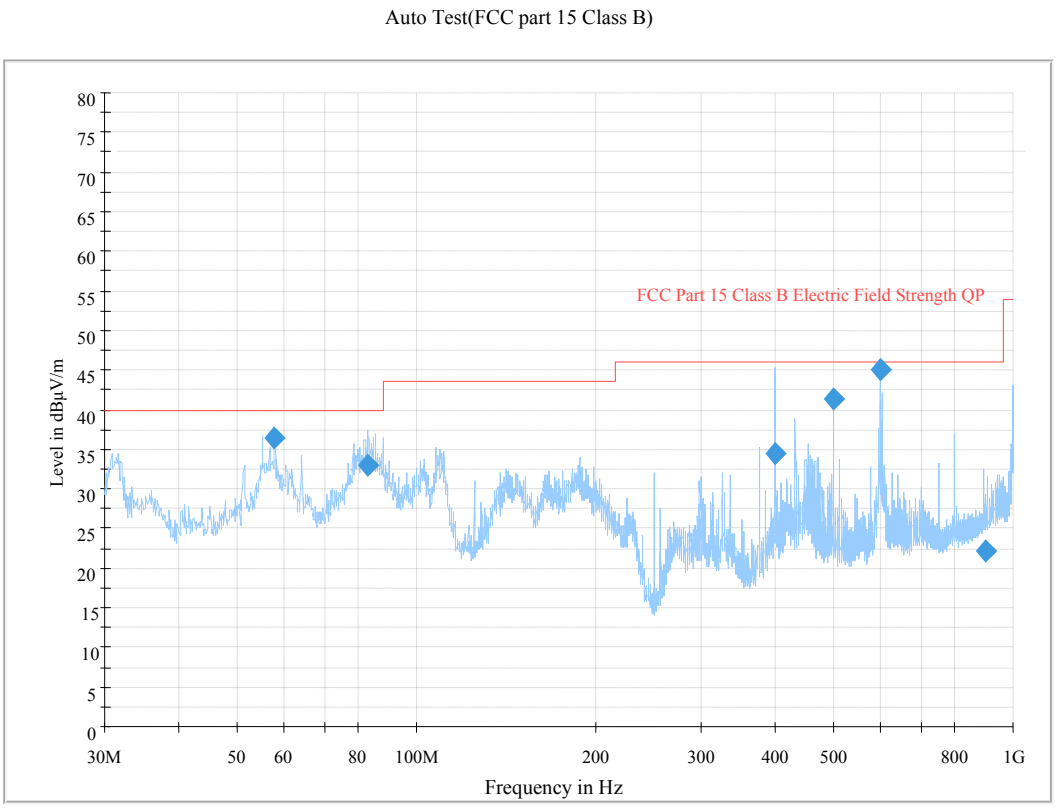
Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
83.599800	23.3	103.0	V	135.0	-20.0	40.0	16.7
96.445600	37.7	100.0	V	305.0	-18.3	43.5	5.8
102.851550	30.6	100.0	V	191.0	-16.5	43.5	12.9
399.981200	37.6	137.0	V	157.0	-11.8	46.0	8.4
599.017100	41.4	104.0	V	0.0	-9.4	46.0	4.6*
799.998900	35.9	100.0	V	77.0	-5.3	46.0	10.1

Above 1 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)				
2462.9	30.87	PK	91	1.4	H	7.21	38.08	74	35.92
2462.9	24.10	Ave.	91	1.4	H	7.21	31.31	54	22.69
2462.9	31.92	PK	79	1.5	V	7.21	39.13	74	34.87
2462.9	23.66	Ave.	79	1.5	V	7.21	30.87	54	23.13
4687.3	30.28	PK	308	1.5	H	12.37	42.65	74	31.35
4687.3	18.65	Ave.	308	1.5	H	12.37	31.02	54	22.98
4927.8	29.95	PK	172	1.5	V	12.50	42.45	74	31.55
4927.8	18.88	Ave.	172	1.5	V	12.50	31.38	54	22.62

3) PoE power supply:

Below 1 GHz:



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
57.851500	36.3	98.0	V	234.0	-19.4	40.0	3.7*
82.572550	33.1	123.0	V	212.0	-18.5	40.0	6.9
398.220500	34.4	116.0	H	162.0	-8.7	46.0	11.6
500.004650	41.5	165.0	V	8.0	-6.9	46.0	4.5*
601.024500	45.2	104.0	V	0.0	-6.0	46.0	0.8*
897.529350	22.2	123.0	H	147.0	-0.3	46.0	23.8

Above 1 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)				
2412.8	41.77	PK	164	1.3	H	6.13	47.90	74	26.10
2412.8	27.77	Ave.	164	1.3	H	6.13	33.90	54	20.10
2412.8	32.40	PK	294	1.4	V	6.13	38.53	74	35.47
2412.8	24.98	Ave.	294	1.4	V	6.13	31.11	54	22.89
4136.2	30.07	PK	230	1.3	H	11.24	41.31	74	32.69
4136.2	18.59	Ave.	230	1.3	H	11.24	29.83	54	24.17
4486.9	30.12	PK	175	1.2	V	12.14	42.26	74	31.74
4486.9	19.27	Ave.	175	1.2	V	12.14	31.41	54	22.59

Note: *Within measurement uncertainty.

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