



NVLAP LAB CODE 200707-0



FCC PART 15, CLASS B

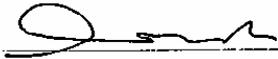
MEASUREMENT AND TEST REPORT

For

ZTE Corporation

ZTE Plaza, Hi-Tech, Industrial Park, Nanshan District,
Shenzhen, Guangdong, P.R. of China

FCC ID: Q78-ZXA10-F420

Report Type: Original Report	Product Type: EPON Optical Network Unit
Test Engineer: Winner Zhang	
Report Number: RSZ09121701	
Report Date: 2009-12-30	
Reviewed By: EMC Engineer	
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* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "*" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ZTE Corporation 's product, model number: ZXA10 F420 (FCC ID: Q78-ZXA10-F420) or the "EUT" as referred to in this report is a EPON Optical Network Unit, which measures approximately: 20.1 cm L x 14.3 cm W x 4.5 cm H, input voltage: DC 12V adapter. The highest operating frequency is 150MHz.

Adapter 1 information:
Manufacture: AMIGO;
Model: AMS3-1201500FU-VP;
Input: AC 100-240V, 50/60Hz 0.8A;
Output: DC 12V 1.5A.

Adapter 2 information:
Manufacture: MOSO;
Model: XKD-C1500IC 12.0-18C-US;
Input: AC 100-240V, 50/60Hz 0.7A Max;
Output: DC 12V 1.5A.

** All measurement and test data in this report was gathered from production sample serial number: 0912054 (Assigned by BAACL, Shenzhen). The EUT was received on 2009-12-17.*

Objective

This Type approval report is prepared on behalf of ZTE Corporation 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 compliance with FCC Part 15 Class B.

Related Submittal(s)/Grant(s)

N/A.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, 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.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in 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 November 21, 2007. 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.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a manufacturer testing fashion.

EUT Exercise Software

N/A.

Equipment Modifications

No modification was made to the unit tested.

Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
DELL	Motherboard	OWC297	CN-OWC297-70821-564-00NI	DoC
DELL	Power	NPS-250KB D	CN-0H2678-17972-56E-80BM	DoC
Seagate	Hard Disk	ST340014A	5JXK3GXE	DoC
DELL	3.5' Floppy	N/A	CN-0N8893-69802-54Q-02P0	DoC
Lite-ON	CD-Rom	LTN-489S	N/A	DoC
ProMOS	Memory	V826632K24SATG-C0	0525-K1933700	N/A
Intel	CPU	Celeron D-2533	N/A	N/A
Intel	Ethernet	PRO 10/100 VE	N/A	DoC

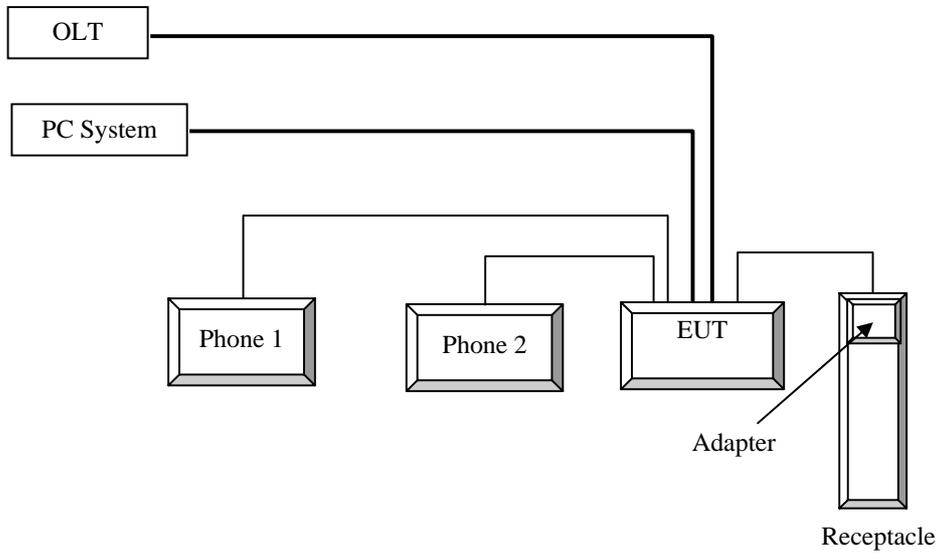
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
TIANNIAO	PHONE	TL2201	N/A	N/A
ZTE	OLT	ZXA10 C200	210020424344	N/A
DELL	PC	DELL 170L	CN-0TC670-70821-560-F4Q6	DoC
DELL	Keyboard	SK-8110	CN07N244-71616-56A-1B1E	DoC
DELL	Mouse	M071KC	520027907	DoC
DELL	LCD Monitor	1505FP	Y4287-7168-571-GBSH	DoC
SIMENS	PHONE	N/A	N/A	N/A

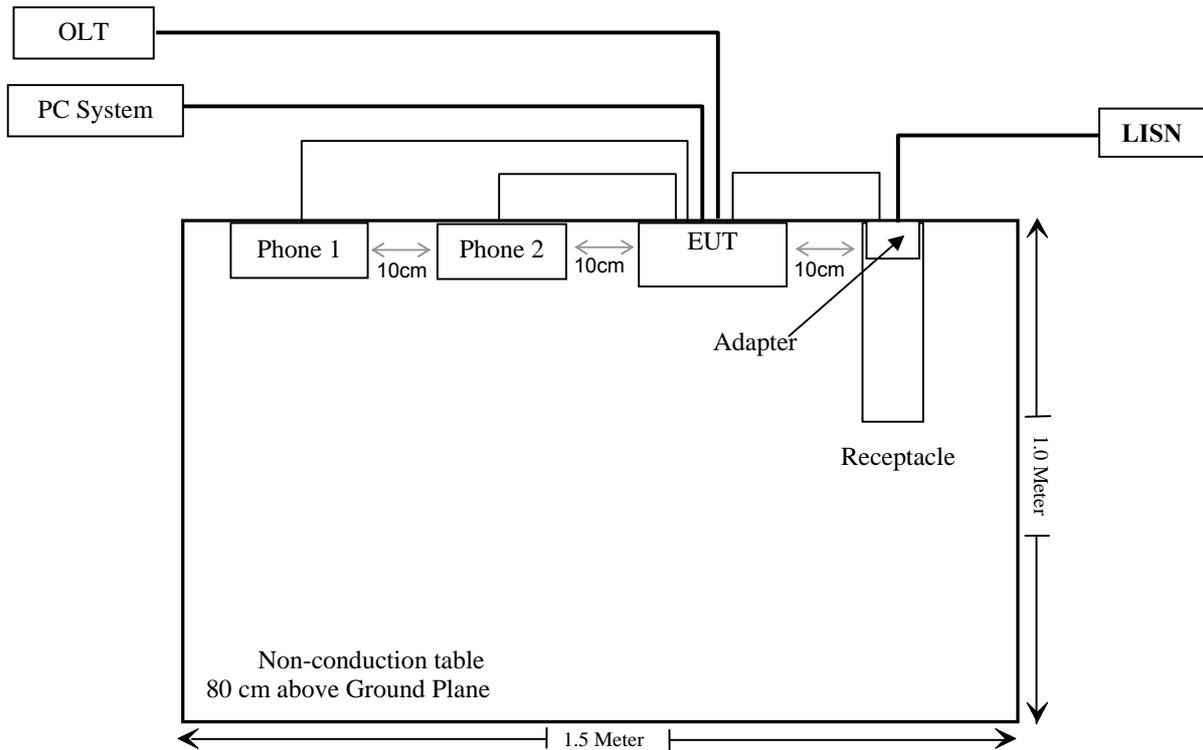
External Cable List and Details

Cable Description	Length (m)	From/Port	To
Shielded Detachable K/B Cable	1.50	K/B port / Host	K/B
Shielded Detachable Mouse Cable	1.50	Mouse port / Host	Mouse
Shielded Detachable VGA Cable	1.50	VGA port / Host	Monitor
Unshielded Undetachable Power Cable for the adapter 1	1.50	EUT	Adapter
Unshielded Undetachable Power Cable with a core for the adapter 2	1.50	EUT	Adapter
Unshielded Detachable RJ45 Cable	1.80	EUT	PC host
Unshielded Detachable Optical Fiber Cable	10.00	EUT	OLT
Unshielded Detachable RJ11 Cable*2	1.50	EUT	Phone

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

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

**Within measurement uncertainty.*

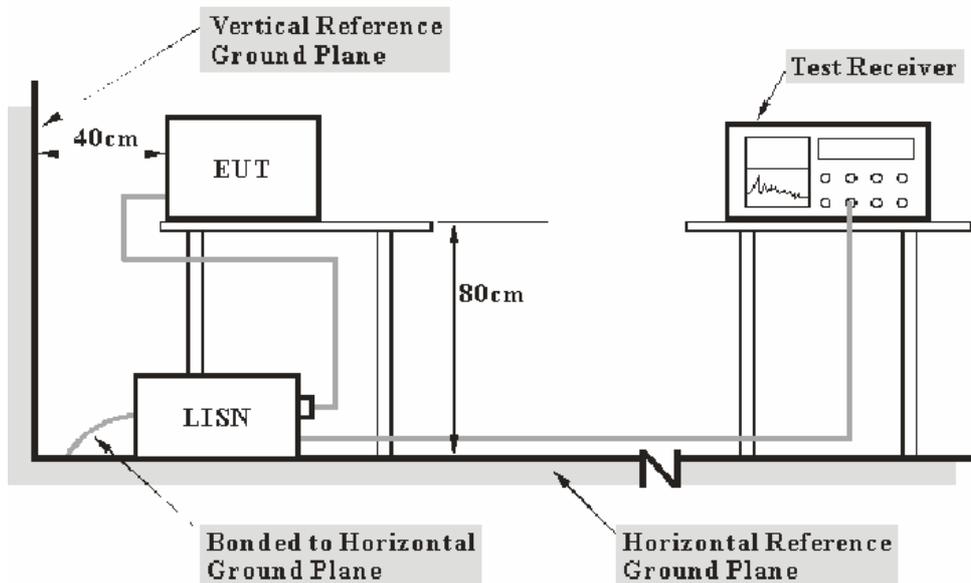
CFR47 §15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

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

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 2.4 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 C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.107 limits.

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:

<i>Frequency Range</i>	<i>IF B/W</i>
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	ESCS30	830245/006	2009-04-28	2010-04-27
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2009-04-28	2010-04-27

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the 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.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

10.8 dB at 4.4300 MHz in the **Line** conductor mode, running with adapter 1
9.9 dB at 0.1850 MHz in the **Neutral** conductor mode, running with adapter 2

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	50 %
ATM Pressure:	100.0 kPa

The testing was performed by Winner Zhang on 2009-12-16.

Test Mode: Running with adapter 1

Line Conducted Emissions				FCC Part 15.107	
Frequency (MHz)	Amplitude (dB μ V)	Detector (QP/AV)	Conductor (Line/Neutral)	Limit (dB μ V)	Margin (dB)
4.4300	45.20	QP	Line	56.00	10.80
0.5600	44.70	QP	Neutral	56.00	11.30
0.5700	44.50	QP	Line	56.00	11.50
0.4900	44.50	QP	Line	56.20	11.70
3.3200	44.20	QP	Neutral	56.00	11.80
0.4950	43.60	QP	Neutral	56.10	12.50
1.2850	43.10	QP	Line	56.00	12.90
20.9450	47.00	QP	Neutral	60.00	13.00
1.2850	32.60	AV	Line	46.00	13.40
1.2850	32.40	AV	Neutral	46.00	13.60
20.2950	45.70	QP	Line	60.00	14.30
4.4100	31.70	AV	Line	46.00	14.30
27.3650	45.60	QP	Neutral	60.00	14.40
0.5600	31.20	AV	Neutral	46.00	14.80
0.4900	31.40	AV	Line	46.20	14.80
0.5650	30.50	AV	Line	46.00	15.50
21.0100	34.40	AV	Neutral	50.00	15.60
1.2900	40.00	QP	Neutral	56.00	16.00
0.4950	29.90	AV	Neutral	46.10	16.20
27.7600	43.40	QP	Line	60.00	16.60
27.4950	32.80	AV	Neutral	50.00	17.20
20.5650	32.80	AV	Line	50.00	17.20
3.2900	28.50	AV	Neutral	46.00	17.50
27.7550	32.00	AV	Line	50.00	18.00

Test Mode: Running with adapter 2

Line Conducted Emissions				FCC Part 15.107	
Frequency (MHz)	Amplitude (dB μ V)	Detector (QP/AV)	Conductor (Line/Neutral)	Limit (dB μ V)	Margin (dB)
0.1850	54.40	QP	Neutral	64.30	9.90
0.1950	53.70	QP	Neutral	63.80	10.10
0.2600	49.80	QP	Neutral	61.40	11.60
1.2850	34.20	AV	Neutral	46.00	11.80
1.2900	43.00	QP	Neutral	56.00	13.00
1.2850	31.50	AV	Line	46.00	14.50
1.2850	41.20	QP	Line	56.00	14.80
0.4500	41.80	QP	Line	56.90	15.10
0.1950	38.10	AV	Neutral	53.80	15.70
23.1300	34.20	AV	Line	50.00	15.80
0.2600	34.80	AV	Neutral	51.40	16.60
27.3750	42.80	QP	Neutral	60.00	17.20
23.1300	42.70	QP	Line	60.00	17.30
0.1900	46.20	QP	Line	64.00	17.80
0.2550	43.60	QP	Line	61.60	18.00
0.4500	28.90	AV	Line	46.90	18.00
16.4100	41.40	QP	Neutral	60.00	18.60
16.4750	31.00	AV	Neutral	50.00	19.00
15.8800	30.20	AV	Line	50.00	19.80
15.6800	40.10	QP	Line	60.00	19.90
0.2550	30.00	AV	Line	51.60	21.60
27.5050	27.50	AV	Neutral	50.00	22.50
0.1900	31.30	AV	Line	54.00	22.70
0.1850	25.60	AV	Neutral	54.30	28.70

Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

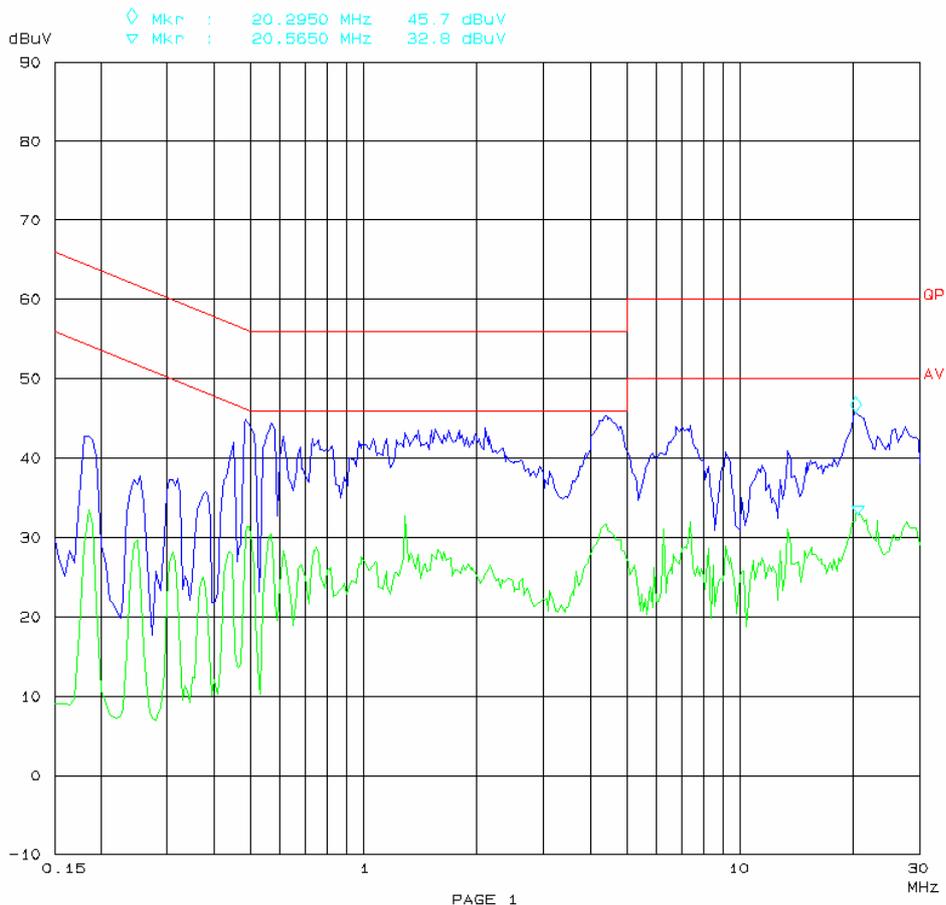
Adapter 1

Line:

Conducted Emission
FCC Part 15

16. Dec 09 17:24

EUT: EPON Optical Network Unit M/N: ZXA10 F420(Adapter: AMS3-1201500FU-VP)
Manuf: ZTE
Op Cond: Running
Operator: Winner
Test Spec: AC 120V/60Hz L
Comment: Tem: 25 Hum: 50%
BACL

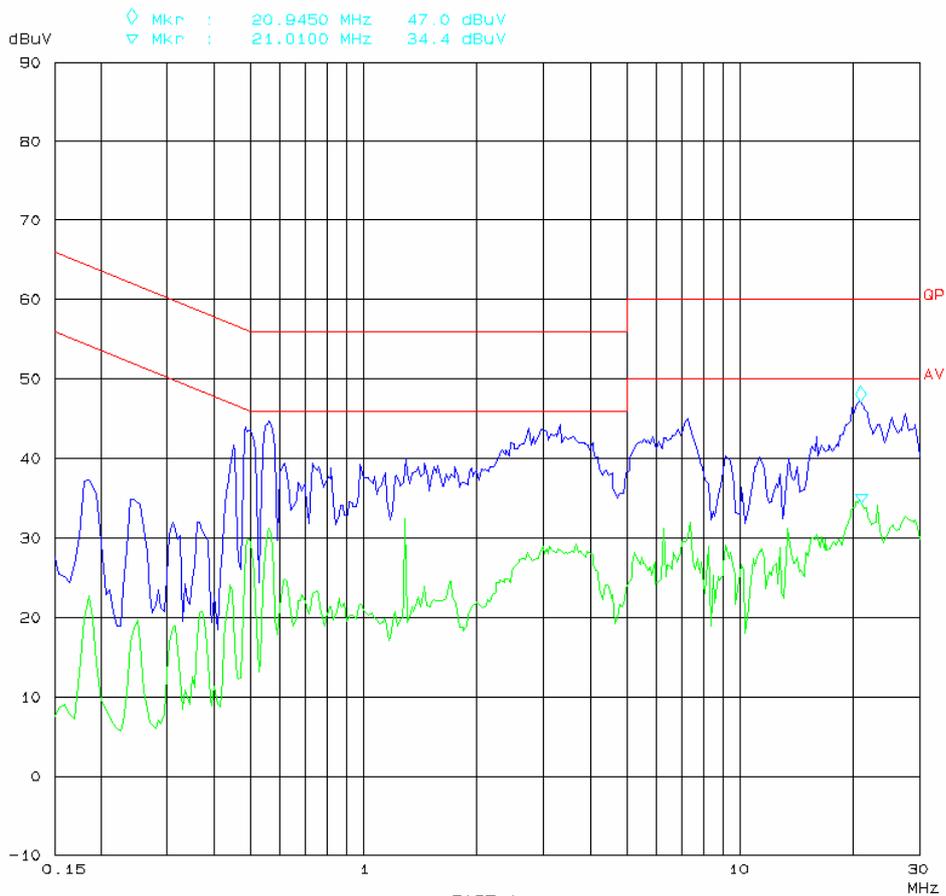


Neutral:

Conducted Emission
FCC Part 15

16. Dec 09 17:40

EUT: EPON Optical Network Unit M/N: ZXA10 F420(Adapter: AMS3-1201500FU-VP)
Manuf: ZTE
Op Cond: Running
Operator: Winner
Test Spec: AC 120V/60Hz N
Comment: Tem: 25 Hum: 50%
BACL



PAGE 1

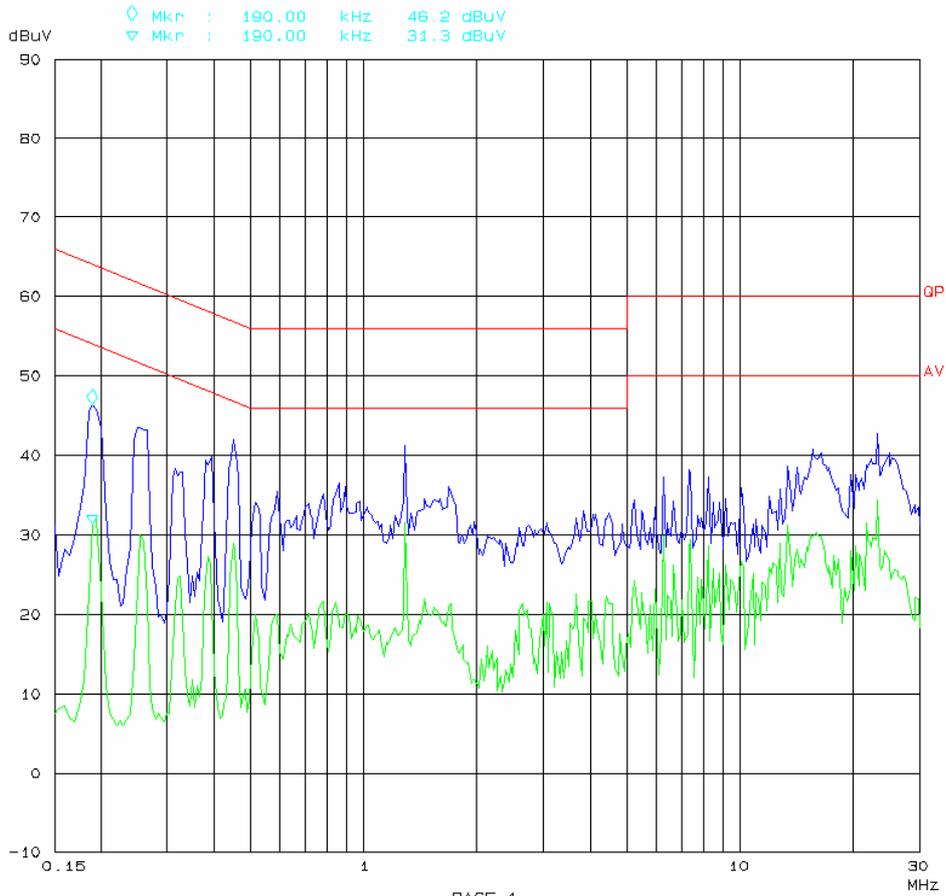
Adapter 2

Line:

Conducted Emission
FCC Part 15

16. Dec 09 16:09

EUT: EPON Optical Network Unit M/N:ZXA10 F420 (Adapter Model: XKD-C1500ic12.0-18C-US)
Manuf: ZTE
Op Cond: Running
Operator: Winner
Test Spec: AC 120V/60Hz L
Comment: Tem: 25 Hum: 50%
BACL

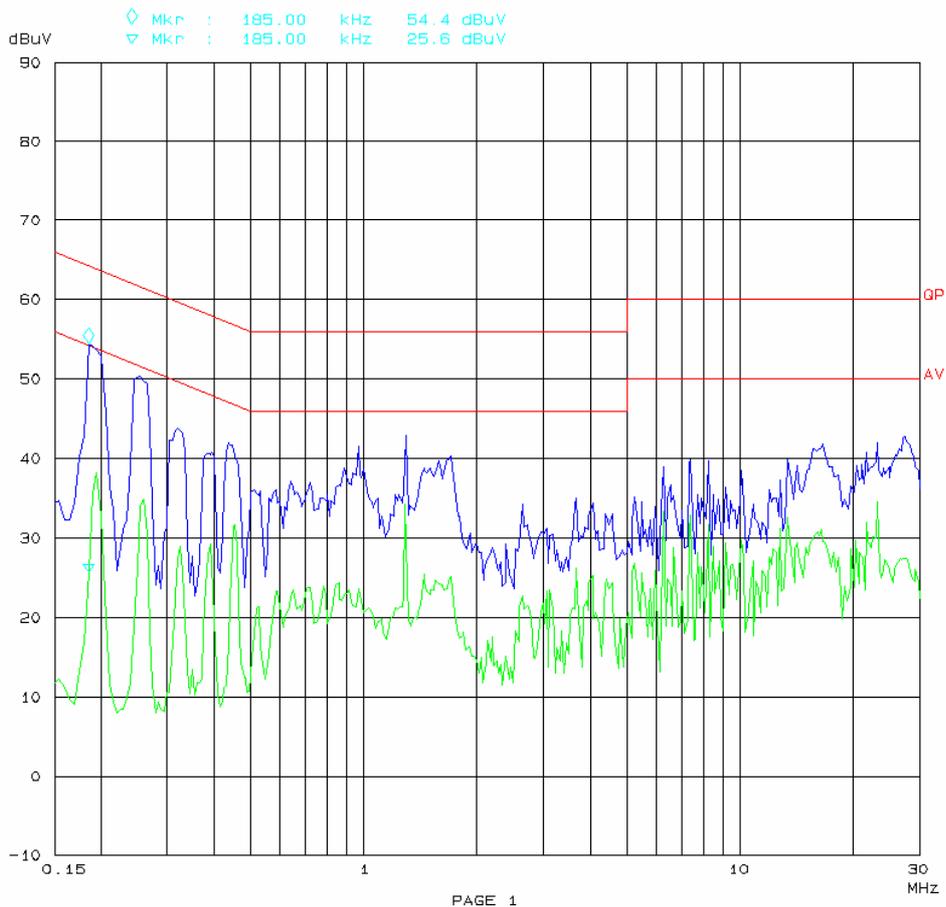


Neutral:

Conducted Emission
FCC Part 15

16. Dec 09 17:56

EUT: EPON Optical Network Unit M/N:ZXA10 F420 (Adapter Model: XKD-C1500IC12.0-18C-US)
Manuf: ZTE
Op Cond: Running
Operator: Winner
Test Spec: AC 120V/60Hz N
Comment: Tem: 25 Hum: 50% RACI



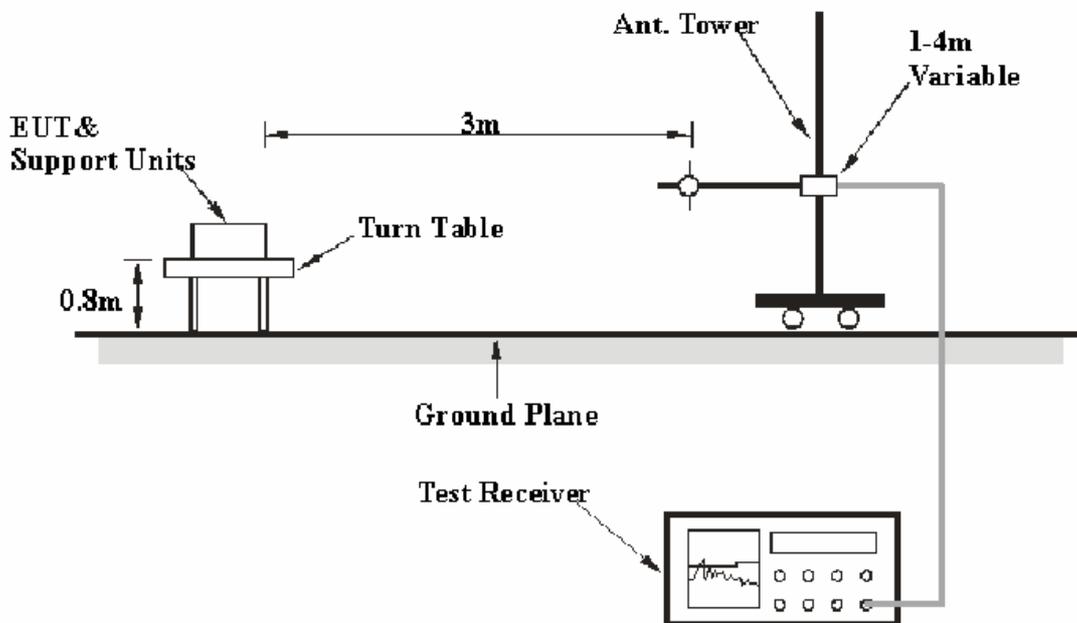
CFR47 §15.109 - RADIATED EMISSIONS

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 NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 4.0 dB.

EUT Setup



The radiated emission tests were performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15.109 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 2GHz.

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

<i>Frequency</i>	<i>RB/W</i>	<i>VB/W</i>	<i>IF B/W</i>
30 MHz-1 GHz	100 kHz	300 kHz	120 kHz
above 1GHz	1MHz	10Hz	

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2009-08-02	2010-08-02
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2009-03-11	2010-03-11
HP	Amplifier	8449B	3008A00277	2009-09-12	2010-09-11
Sunol Sciences	Horn Antenna	DRH-118	A052604	2009-05-05	2010-05-04
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2009-07-08	2010-07-08

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the radiated emissions test, the adapter was connected to the AC floor outlet.

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

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1GHz.

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 Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.109, with the worst margin reading of:

1.8 dB at **31.283750 MHz** in the **Vertical** polarization, running with adapter 1, below 1 GHz
18.16 dB at **1998.0 MHz** in the **Vertical** polarization, running with adapter 1, above 1 GHz
7.6 dB at **66.309750 MHz** in the **Vertical** polarization, running with adapter 2, below 1 GHz
18.63 dB at **1983.9 MHz** in the **Horizontal** polarization, running with adapter 2, above 1 GHz

Test Data

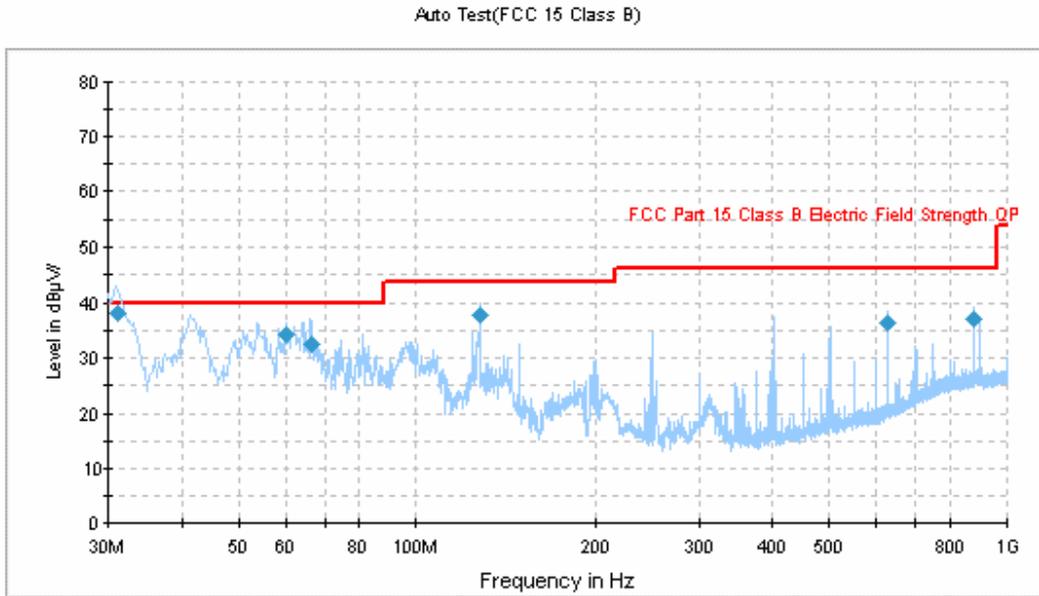
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Winner Zhang on 2009-12-16.

Test Mode: Running with adapter 1

Below 1 GHz:



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Ant. Height (cm)	Ant. Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
31.283750	38.2	100.0	V	298.0	-6.9	40.0	1.8*
60.229250	34.3	101.0	V	7.0	-19.9	40.0	5.7
128.455000	37.8	334.0	V	246.0	-0.3	43.5	5.7
66.331750	32.4	132.0	V	346.0	-19.6	40.0	7.6
875.112500	37.2	353.0	H	357.0	-0.3	46.0	8.8
625.337500	36.4	293.0	H	132.0	-0.5	46.0	9.6

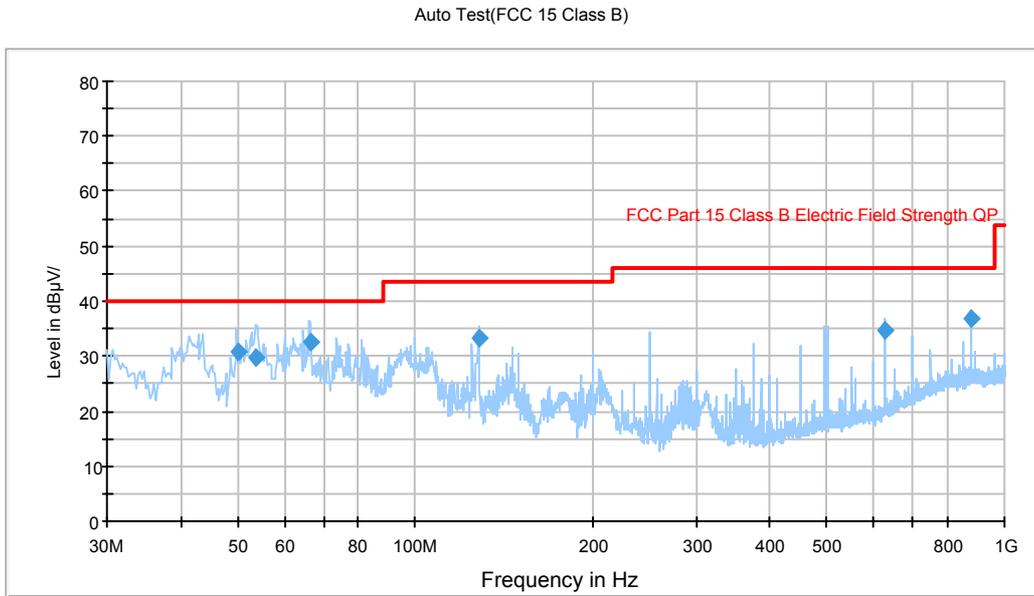
*Within measurement uncertainty.

Above 1GHz:

Frequency MHz	S.A. Reading (dB μ V/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	FCC Part 15	
				Height (m)	Polar (H/V)	Factor (dB)				Limit (dB μ V/m)	Margin (dB)
1998.0	34.92	AV	150	1.4	V	29.8	5.12	34.00	35.84	54	18.16
1937.8	34.74	AV	128	1.4	H	29.7	5.12	34.00	35.56	54	18.44
1871.7	34.89	AV	115	1.0	V	28.8	4.88	34.20	34.37	54	19.63
1867.7	34.60	AV	198	2.0	H	28.3	4.88	34.20	33.58	54	20.42
1613.2	35.29	AV	101	1.0	V	27.8	4.54	34.40	33.23	54	20.77
1633.3	35.04	AV	110	1.3	V	27.8	4.54	34.40	32.98	54	21.02
1621.2	34.97	AV	315	1.1	H	27.5	4.54	34.40	32.61	54	21.39
1651.3	34.89	AV	275	1.5	H	27.5	4.54	34.40	32.53	54	21.47
1629.3	34.81	AV	10	1.2	H	27.5	4.54	34.40	32.45	54	21.55
1998.0	49.18	PK	150	1.4	V	29.8	5.12	34.00	50.10	74	23.90
1937.8	48.55	PK	128	1.4	H	29.7	5.12	34.00	49.37	74	24.63
1871.7	49.00	PK	115	1.0	V	28.8	4.88	34.20	48.48	74	25.52
1613.2	49.40	PK	101	1.0	V	27.8	4.54	34.40	47.34	74	26.66
1633.3	49.38	PK	110	1.3	V	27.8	4.54	34.40	47.32	74	26.68
1867.7	48.27	PK	198	2.0	H	28.3	4.88	34.20	47.25	74	26.75
1621.2	49.47	PK	315	1.1	H	27.5	4.54	34.40	47.11	74	26.89
1651.3	49.10	PK	275	1.5	H	27.5	4.54	34.40	46.74	74	27.26
1629.3	48.95	PK	10	1.2	H	27.5	4.54	34.40	46.59	74	27.41

Test Mode: Running with adapter 2

Below 1 GHz:



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Ant. Height (cm)	Ant. Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
66.309750	32.4	100.0	V	6.0	-19.6	40.0	7.6
50.007500	30.8	101.0	V	116.0	-19.0	40.0	9.2
875.355000	36.8	295.0	H	188.0	-0.5	46.0	9.2
53.545750	29.8	101.0	V	8.0	-19.3	40.0	10.2
625.337500	35.8	293.0	H	132.0	-0.5	46.0	10.2
128.455000	33.2	401.0	V	0.0	-0.3	43.5	10.3

Above 1 GHz:

Frequency MHz	S.A. Reading (dB μ V/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	FCC Part 15	
				Height (m)	Polar (H/V)	Factor (dB)				Limit (dB μ V/m)	Margin (dB)
1983.9	34.55	AV	198	2.0	H	29.7	5.12	34.00	35.37	54	18.63
1775.5	35.34	AV	280	1.0	V	28.8	4.88	34.20	34.82	54	19.18
1865.7	34.89	AV	275	1.5	H	28.3	4.88	34.20	33.87	54	20.13
1681.4	35.53	AV	115	1.0	V	28.0	4.60	34.30	33.83	54	20.17
1615.2	35.66	AV	101	1.0	V	27.8	4.54	34.40	33.60	54	20.40
1635.2	35.40	AV	315	1.1	H	27.5	4.54	34.40	33.04	54	20.96
1629.3	35.29	AV	8	1.0	H	27.5	4.54	34.40	32.93	54	21.07
1647.3	33.79	AV	109	1.5	V	27.8	4.54	34.40	31.73	54	22.27
1983.9	49.18	PK	198	2.0	H	29.7	5.12	34.00	50.00	74	24.00
1775.5	49.12	PK	280	1.0	V	28.8	4.88	34.20	48.60	74	25.40
1865.7	49.40	PK	275	1.5	H	28.3	4.88	34.20	48.38	74	25.62
1681.4	49.31	PK	115	1.0	V	28.0	4.60	34.30	47.61	74	26.39
1615.2	49.59	PK	100	1.0	V	27.8	4.54	34.40	47.53	74	26.47
1635.2	49.85	PK	300	1.0	H	27.5	4.54	34.40	47.49	74	26.51
1629.3	49.56	PK	8	1.0	H	27.5	4.54	34.40	47.20	74	26.80
1647.3	48.85	PK	109	1.5	V	27.8	4.54	34.40	46.79	74	27.21

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