

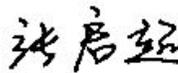
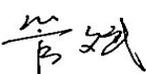
# FCC MEASUREMENT AND TEST REPORT

For

## ZTE Corporation

ZTE Plaza, Hi-tech Park, Nanshan District, Shenzhen,  
Guangdong, China 518057

Dec 31, 2014

<b>This Report Concerns:</b> <input checked="" type="checkbox"/> Original Report	<b>Equipment Type:</b> Multi-Service Router
Model Number:	ZXR10 1800-2S(W)
Product Description:	Intelligent Integrated Multi-Service Router
Test Engineer:	
Report Number	FCC-20141397RP
Test Date:	Dec 01 – Dec 30, 2014
Reviewed By:	
Approved By:	
Prepared By:	ZTETS Corporation
ZTE Plaza, Hi-tech Park, Nanshan District, Shenzhen, Guangdong, China 518057, P.R.China Tel: +86-755-26770000 Fax: +86-755-26771999	

Note: The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of ZTE Corporation. This report must not be used by the client to claim product certification 、 approval 、 or endorsement by any agency of the US Government.

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## 2 GENERAL INFORMATION

### 2.1 Product Description for Equipment Under Test (EUT)

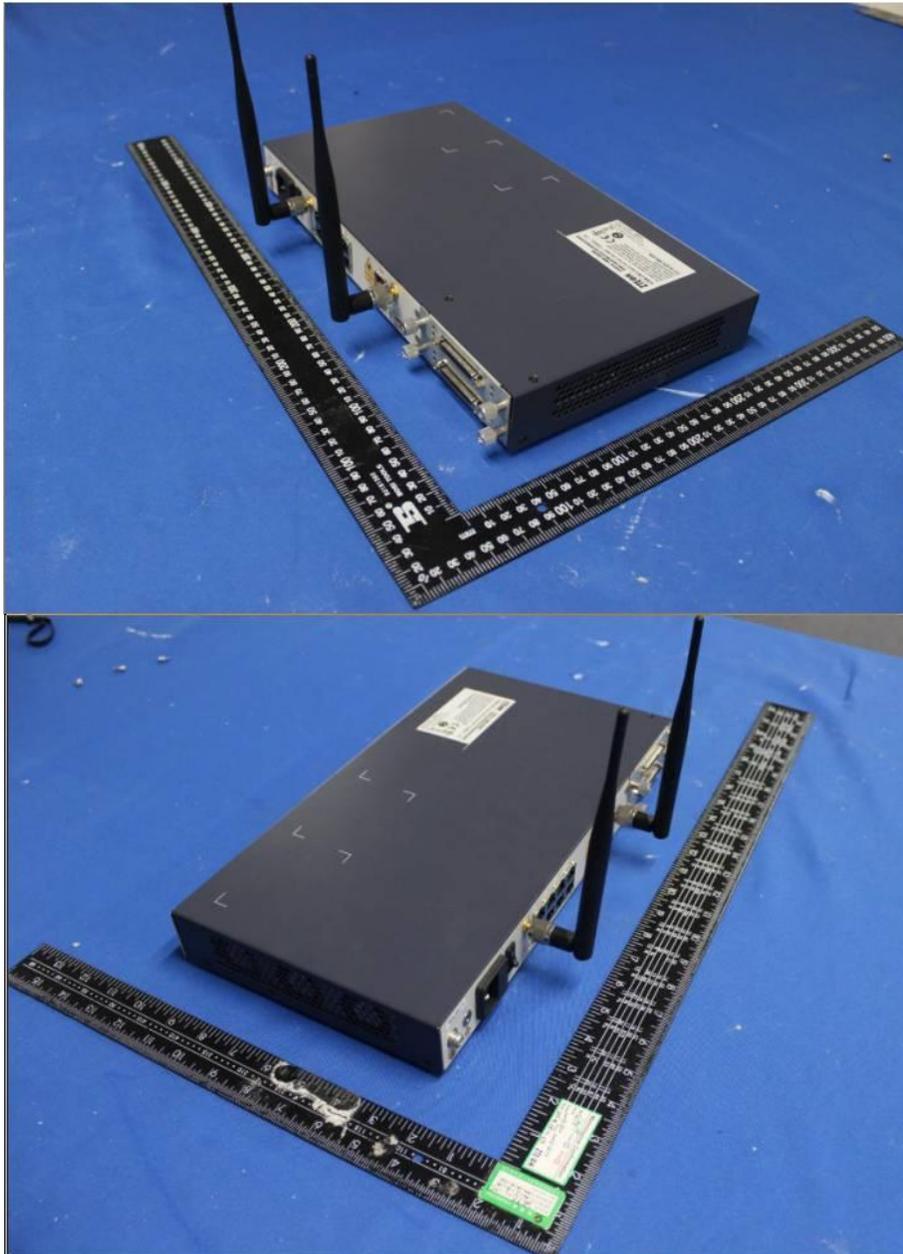
The ZTE's product, model number: ZXR10 1800-2S(W)(the "EUT") in this report is a Intelligent Integrated Multi-Service Router, which was measured approximately: 44mm×380mm×200mm

Adapter information:

Model: ZXR10 1800-2S(W)

Input: AC100-240V, 50/60Hz,

Appearance of EUT:



## 2.2 Objective

This Type approval report is prepared on behalf of ZTE Corporation in accordance with Part 2、 Part 15 of the Federal Communication Commissions rules.

## 2.3 Related Submittal(s)/Grant(s)

No related submittal(s).

## 2.4 Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2. as well as the following parts:

Part 15 Wireless Communication Services

Applicable Standards: TIA EIA 137-A, TIA EIA 97-D, TIA/EIA 603-C, Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

All radiated and conducted measurement was performed at ZTE Corporation Reliability Testing Center. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## 2.5 Test Facility

The Test site used by Shenzhen ZTE Technology Service Co., Ltd to collect test data is located in the ZTE Plaza, Hi-tech Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China, Tel: +86-755-26770000, Fax: +86-755-26771999. Test site at ZTETS Corporation 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 04, 2004. 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.: 0007895832. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

### 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 radiated emissions measurement at the EMC lab. is 3.8dB, and conducted emission is 2.1dB

### **3 EQUIPMENT TEST CONFIGURATION**

#### **3.1 Identification of EUT**

Category: IEEE 802.11b/g /n Intelligent Integrated Multi-Service Router

Model Name: ZXR10 1800-2S(W)

Alternate model: N/A

Brand name: N/A

Input: 100-240Vac 50/60Hz

#### **3.2 Detail Specification**

Operation Frequency: 2412 MHz -2462MHz

Type of Spectrum: DBPSK, DQPSK, CCK, OFDM

Category: 802.11b; 802.11g; 802.11n (HT20)

Operation Frequency:2422 MHz -2452MHz

Type of Spectrum: OFDM

Category: 802.11n (HT40)

Antenna Type: External antenna

Antenna Number: 2

Antenna gain: 5dBi

Modulation type: BPSK, QPSK, 16-QAM, 64-QAM

Data rate: 1,2,5.5,6,11,12,18,24,36,48,54 and maximum of 135Mbps

### 3.3 Information Related to Testing

Test mode

TM1: 110VAC 60Hz TX MODE continuous transmitter

Remark: Input voltage have been adjusted from 85% to 115% ,no influence of Fundamental emission found

For 802.11 b, g ,n (HT20)

CH LOW: 2412MHz

CH MID: 2437MHz

CH HIGH: 2462MHz

For 802.11n (HT40)

CH LOW: 2422MHz

CH MID: 2437MHz

CH HIGH: 2452MHz

IEEE 802.11b: 1Mbps data rate

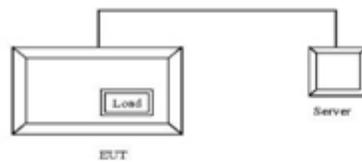
IEEE 802.11g: 6Mbps data rate

IEEE 802.11n HT20: MSC10

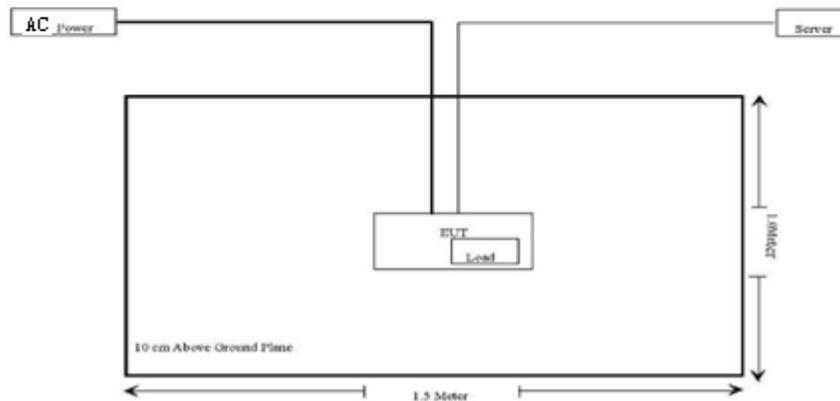
IEEE 802.11n HT40: MSC10

Remark: Only the worse case found by prescan is listed

**Configuration of Test Setup**



**Block Diagram of Test Setup**



## 4 SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna requirement	Compliance
§15.207(a)	AC line conducted emissions	Compliance
§15.209 §15.247(d)	Radiated Emissions	Compliance
§15.247(a)	6dB Emission Bandwidth	Compliance
§15.247(b)	Maximum Peak Output Power	Compliance
§ 15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(a)	Power Spectral Density	Compliance
§15.247(i), §2.1091	Maximum permissible exposure(MPE)	Compliance

## **5 ANTENNA REQUIREMENT**

### **5.1 Applicable standard: FCC §15.203**

### **5.2 Limit**

According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with the section §15.203 of the rules, §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

### **5.3 Test Data**

The EUT used two fixed antenna, which in accordance to section 15.203, the maximum gain is 5dBi. And according to FCC47CFR section 15.247(b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB than the directional gain of the antenna exceeds 6dBi. Please refer to MAXIMUM PEAK OUTPUT POWER.

### **5.4 Test Result: pass**

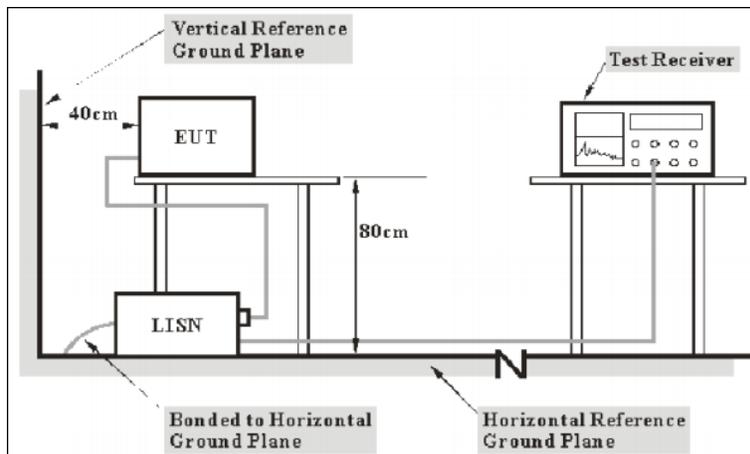
## 6 AC LINE CONDUCTED EMISSIONS

**6.1 Applicable Standard:** FCC §15.207

### 6.2 Test Equipment List and Details

Manufacturer	Equipment	Model	Last Cal.	Cal. Interval
R&S	EMI Test receiver	ESCI 3	2014-7-15	1 year
TESE Q	ISN	ISN T800	2014-7-15	1 year
Schwarzbeck	LISN	NSLK8128	2014-7-15	1 year
FCC	Current Probe	F-35	N/A	1 year

EUT Setup



The setup of EUT is according with per ANSI C63.4-2009 measurement procedure, The specification used was the FCC Part 15.207 limits.

### 6.3 Test Procedure

During the conducted emission test, the adapter was connected to the LISN. Maximizing procedure was performed on the six highest emissions of the EUT. All data was recorded in the Quasi-peak and average detection mode.

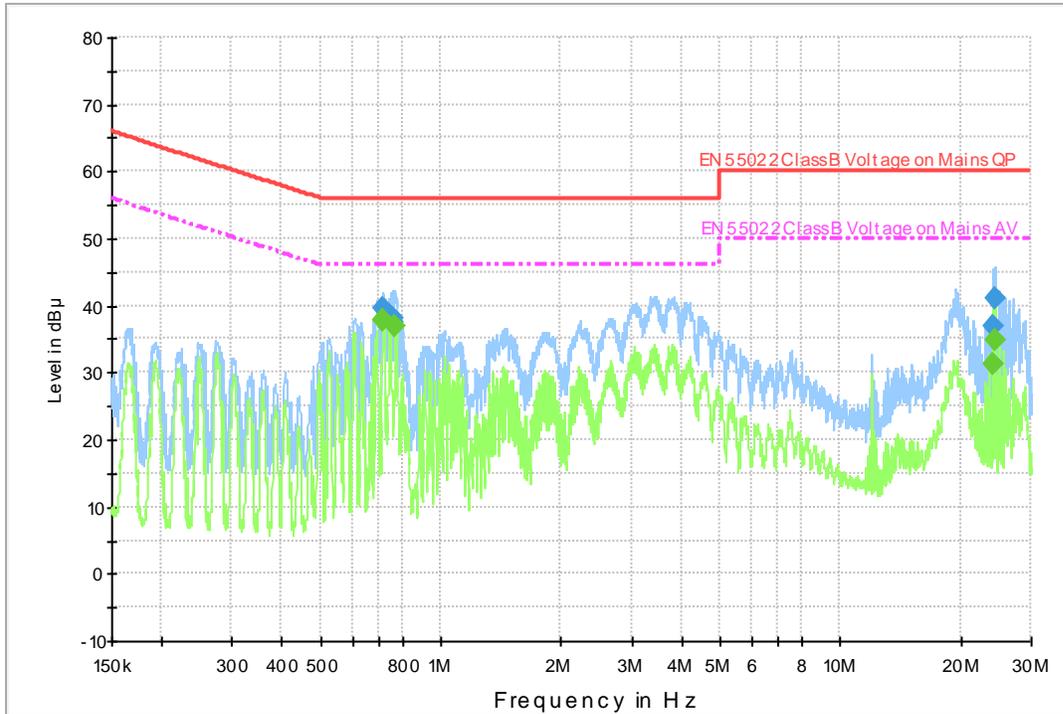
### 6.4 Environmental Conditions

Temperature:	20°C
Relative Humidity:	60 %
ATM Pressure:	1009 mbar

## 6.5 Test Result: Pass

100Vac/60Hz,Line

Class B NSLK 8128 2Line Voltage 150k to 30MHz\_L1



### Final Result 1

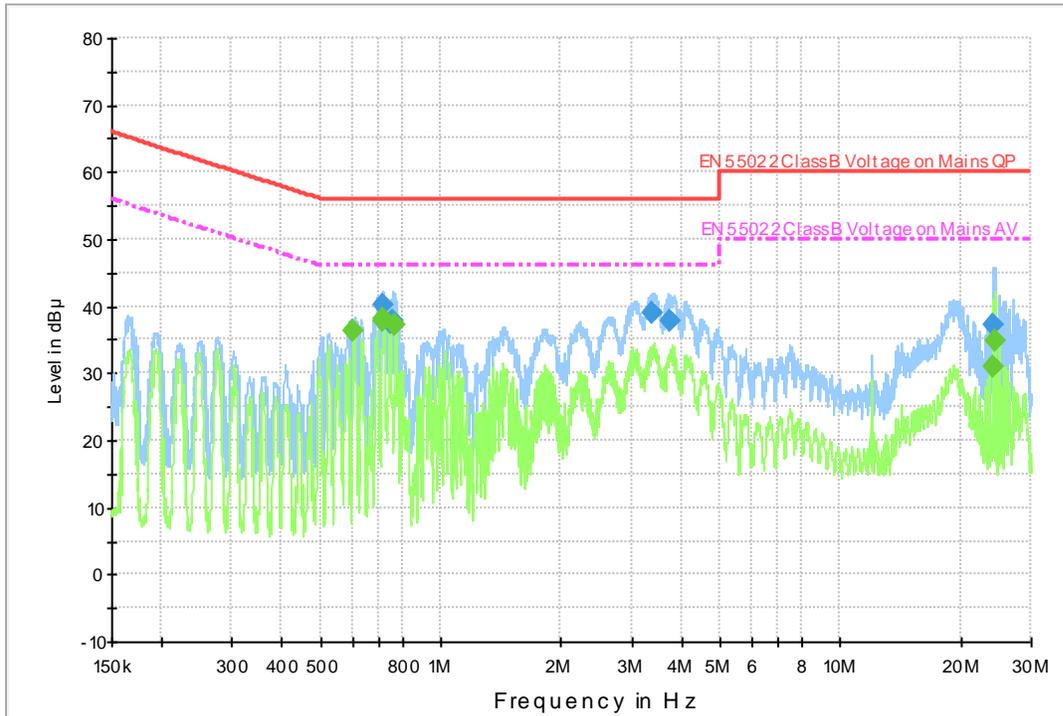
Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.711944	39.6	1000.0	9.000	GN	L1	10.1	16.4	56.0	
0.752754	38.5	1000.0	9.000	GN	L1	10.1	17.5	56.0	
0.754776	37.5	1000.0	9.000	GN	L1	10.1	18.5	56.0	
0.760697	38.0	1000.0	9.000	GN	L1	10.1	18.0	56.0	
24.203158	36.9	1000.0	9.000	GN	L1	9.5	23.1	60.0	
24.300297	41.2	1000.0	9.000	GN	L1	9.5	18.8	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.714418	37.7	1000.0	9.000	GN	L1	10.1	8.3	46.0	
0.715956	37.8	1000.0	9.000	GN	L1	10.1	8.2	46.0	
0.716322	37.9	1000.0	9.000	GN	L1	10.1	8.1	46.0	
0.769536	37.0	1000.0	9.000	GN	L1	10.1	9.0	46.0	
24.203158	31.4	1000.0	9.000	GN	L1	9.5	18.6	50.0	
24.300297	34.9	1000.0	9.000	GN	L1	9.5	15.1	50.0	

100Vac/60Hz,Neutral

Class B NSLK 8128 2Line Voltage 150k to 30MHz\_N



## Final Result 1

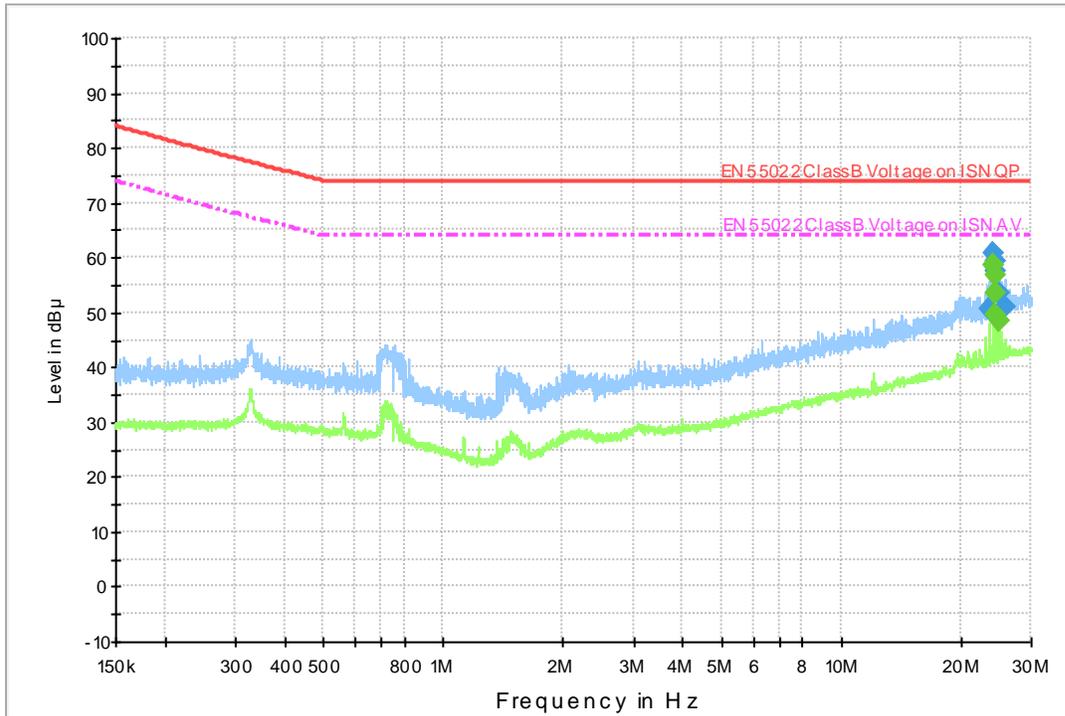
Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.713177	40.3	1000.0	9.000	GN	N	10.1	15.7	56.0	
0.752049	37.5	1000.0	9.000	GN	N	10.1	18.5	56.0	
0.760887	37.8	1000.0	9.000	GN	N	10.1	18.2	56.0	
3.363274	39.1	1000.0	9.000	GN	N	9.6	16.9	56.0	
3.728431	37.7	1000.0	9.000	GN	N	9.5	18.3	56.0	
24.203158	37.1	1000.0	9.000	GN	N	9.5	22.9	60.0	

## Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.605366	36.3	1000.0	9.000	GN	N	10.1	9.7	46.0	
0.715607	37.9	1000.0	9.000	GN	N	10.1	8.1	46.0	
0.715864	38.0	1000.0	9.000	GN	N	10.1	8.0	46.0	
0.770163	37.2	1000.0	9.000	GN	N	10.1	8.8	46.0	
24.203158	31.1	1000.0	9.000	GN	N	9.5	18.9	50.0	
24.300297	35.0	1000.0	9.000	GN	N	9.5	15.0	50.0	

100Vac/60Hz, Ethernet

ISN T800 class B



## Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
23.503792	50.8	1000.0	9.000	19.7	23.2	74.0	
24.195163	60.8	1000.0	9.000	19.7	13.2	74.0	
24.292107	59.3	1000.0	9.000	19.8	14.7	74.0	
24.389439	57.5	1000.0	9.000	19.8	16.5	74.0	
24.881981	53.7	1000.0	9.000	19.8	20.4	74.0	
25.767979	51.1	1000.0	9.000	19.8	22.9	74.0	

## Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
24.098606	58.8	1000.0	9.000	19.7	5.2	64.0	
24.195163	58.5	1000.0	9.000	19.7	5.5	64.0	
24.292107	56.7	1000.0	9.000	19.8	7.3	64.0	
24.389439	53.7	1000.0	9.000	19.8	10.3	64.0	
24.487162	49.5	1000.0	9.000	19.8	14.5	64.0	
24.881981	48.4	1000.0	9.000	19.8	15.6	64.0	

## 7 RADIATED EMISSIONS

### 7.1 Applicable Standard: FCC §15.247(d), 15.209,15.205

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a)

According to FCC Part15.209 and relevant rules:

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency MHz	Distance m	Field strength		Distance m	Field strength dBµV/m(QP)
		µV/m	dBµV/m(QP)		
30-88	3	100	40.0	10	30.0
88-216	3	150	43.5	10	33.5
216-960	3	200	46.0	10	36.0
960-1000	3	500	54.0	10	44.0
Above 1000	3	74.0 dBµV/m (PK) 54.0 dBµV/m (AV)		/	/

### 15.205 Restricted bands:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41			

**7.2 Test Equipment List and Details**

Manufacturer	Equipment	Model	Last Cal.	Cal. Interval
R&S	EMI Test receiver	ESU26	2014-07-15	1 year
R&S	Log periodic Antenna	SWB-VULB 9163	2014-07-15	1 year
R&S	Horn Antenna	HF907	2014-07-15	1 year

**7.3 Test Procedure**

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast.

The EUT were rotated 0 to 360 degree and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. The test result are reported as below.

For below 1GHz

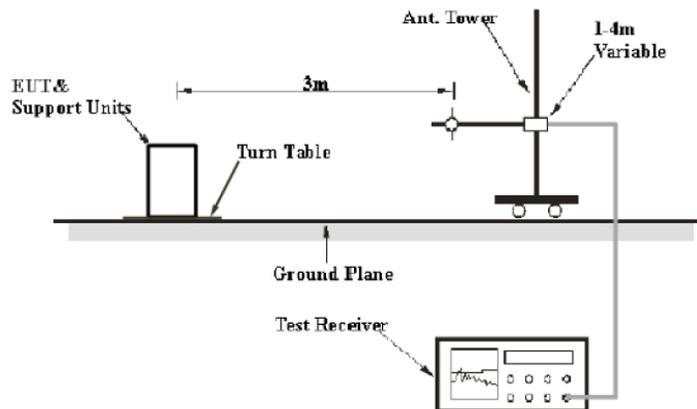
RBW=120 kHz; VBW=300KHz.QP detector, The frequency range from 30MHz to 1000MHz is checked. For above 1GHz.The frequency range from 1GHz to 25GHz (10<sup>th</sup> harmonics) is checked. And test in FAC chamber.

RBW=1MHz; VBW=1MHz, PK detector for peak emissions measurement above 1GHz

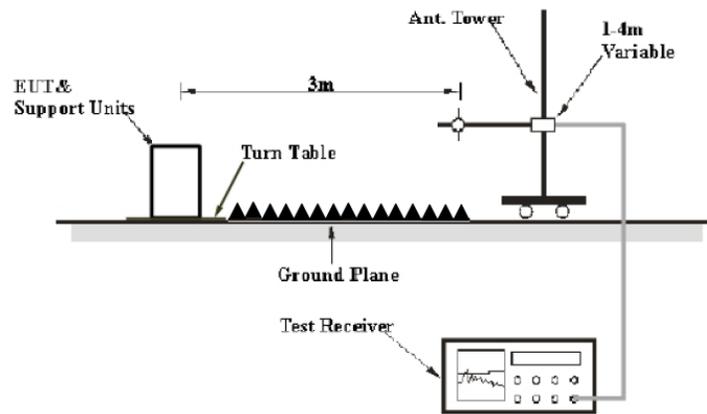
RBW=1MHz; VBW=10Hz, AV detector for average emissions measure above 1GHz

EUT Setup:

**Below 1 GHz**



**Above 1GHz**



**7.4 Environmental Conditions**

Temperature:	20°C
Relative Humidity:	60 %
ATM Pressure:	1009 mbar

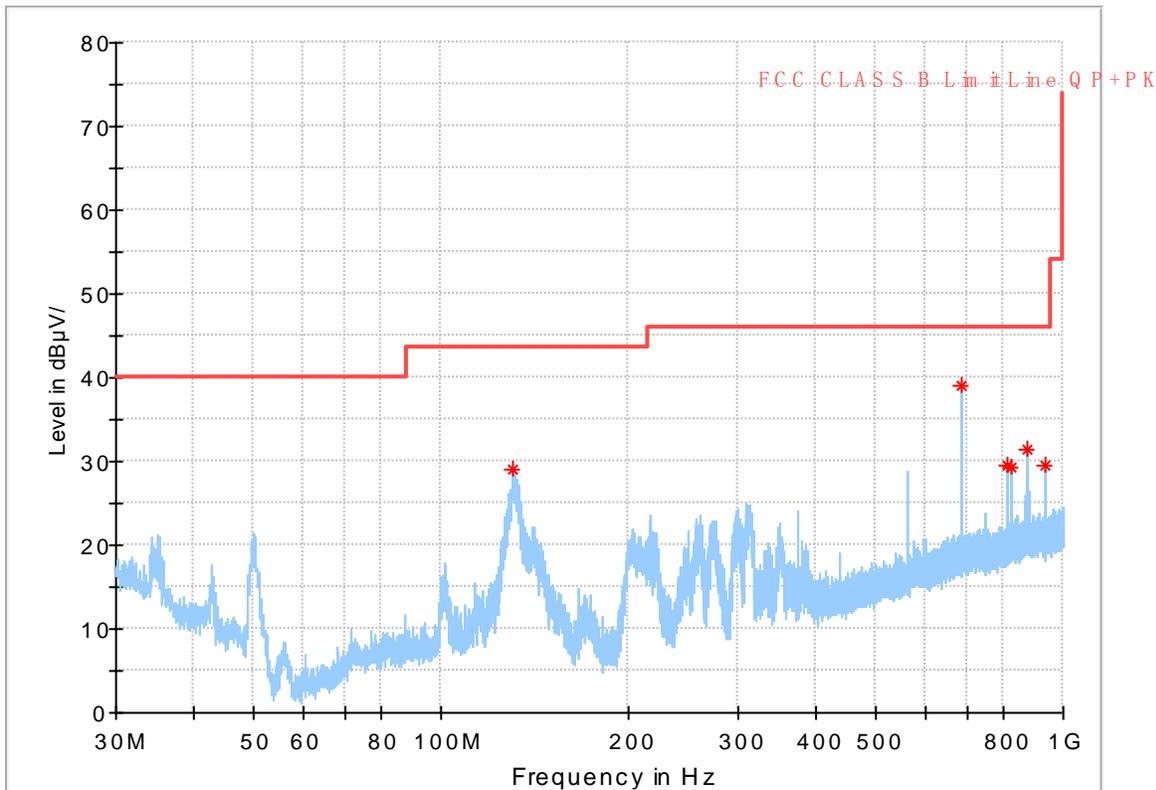
**7.5 Test Result: Pass**

## TEST

### Electric Field Strength

**EUT:** ZXR10 1800-2S(W)  
**Manufacturer:** ZTE Corporation  
**Operating Condition:** Running  
**Test Site:** ZTETS EMC Shenzhen LAB  
**Operator:** Zhang Qichao  
**Test Specification:** FCC Part 15 CLASS B  
**Comment:** Horizontal -30MHZ~1GHZ

Full Spectrum



## Final Result

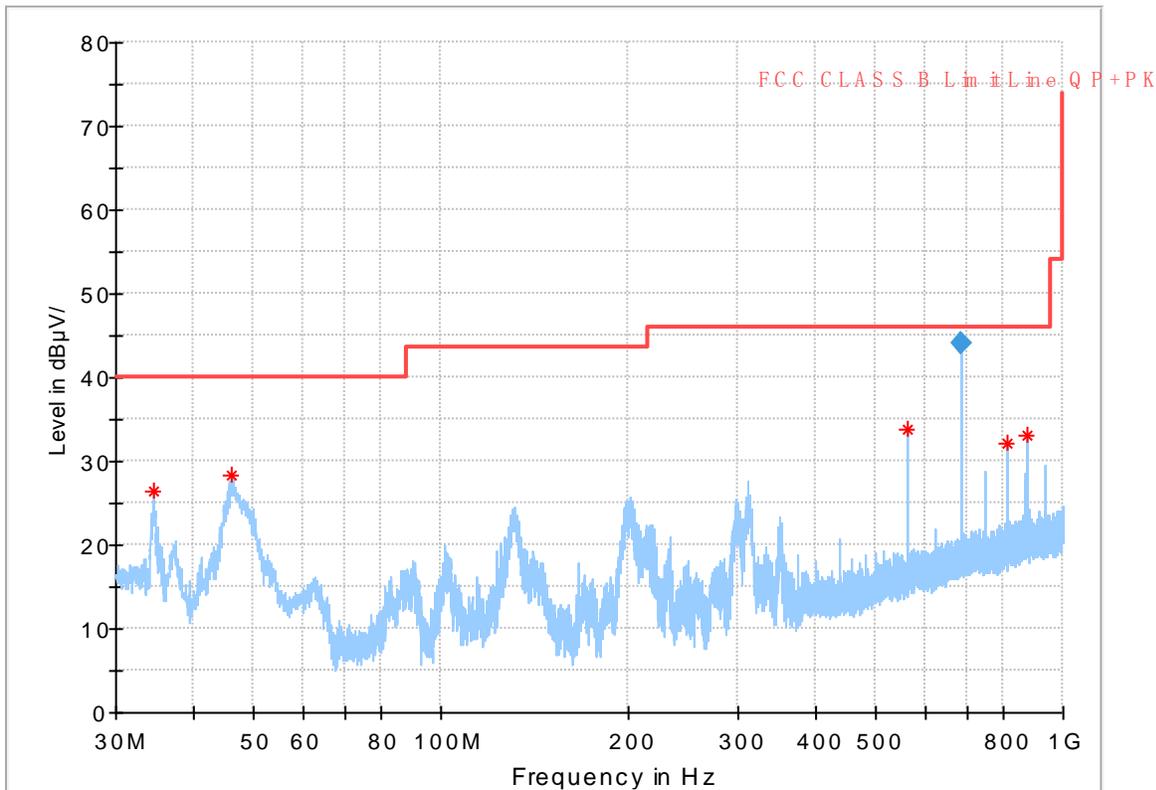
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
130.589000	28.98	43.50	14.52	1000	120	200.0	H	3.0	11.7
937.532000	29.58	46.00	16.42	1000	120	100.0	H	122.0	23.8
874.999333	31.49	46.00	14.51	1000	120	100.0	H	234.0	23.3
687.498333	39.09	46.00	6.91	1000	120	100.0	H	241.0	21.0
812.499000	29.59	46.00	16.41	1000	120	100.0	H	241.0	22.7
825.561667	29.28	46.00	16.72	1000	120	100.0	H	272.0	22.8

## TEST

### Electric Field Strength

**EUT:** ZXR10 1800-2S(W)  
**Manufacturer:** ZTE Corporation  
**Operating Condition:** Running  
**Test Site:** ZTETS EMC Shenzhen LAB  
**Operator:** Zhang Qichao  
**Test Specification:** FCC Part 15 CLASS B  
**Comment:** Vertical -30MHZ~1GHZ

Full Spectrum



## Final Result

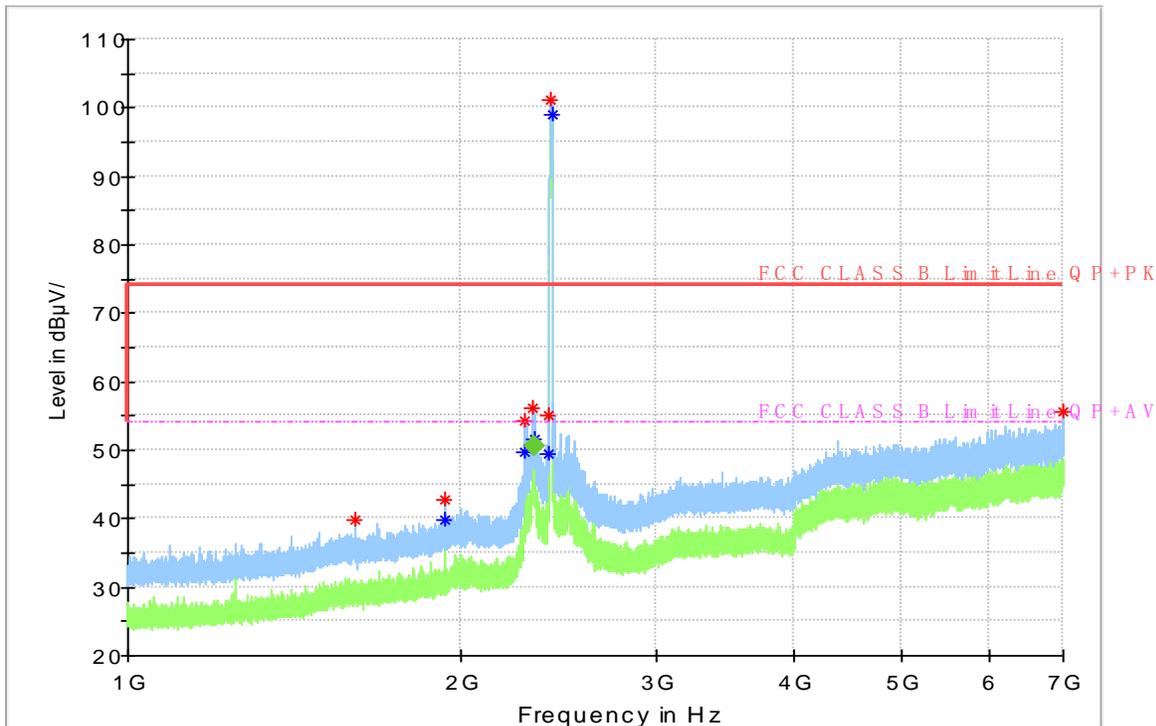
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.559000	26.36	40.00	13.64	1000	120	200.0	V	17.0	17.8
46.134333	28.42	40.00	11.58	1000	120	100.0	V	287.0	10.7
562.497667	33.83	46.00	12.17	1000	120	100.0	V	2.0	18.9
687.492013	44.27	46.00	1.73	1000	120	100.0	V	151.0	21.0
812.499000	32.08	46.00	13.92	1000	120	200.0	V	155.0	22.7
874.999333	32.99	46.00	13.01	1000	120	100.0	V	2.0	23.3

## TEST

### Electric Field Strength

**EUT:** ZXR10 1800-2S(W)  
**Manufacturer:** ZTE Corporation  
**Operating Condition:** Running  
**Test Site:** ZTETS EMC Shenzhen LAB  
**Operator:** Zhang Qichao  
**Test Specification:** FCC Part 15 CLASS B  
**Comment:** Horizontal (B mode-1Channel) -1GHZ~7GHZ

Full Spectrum

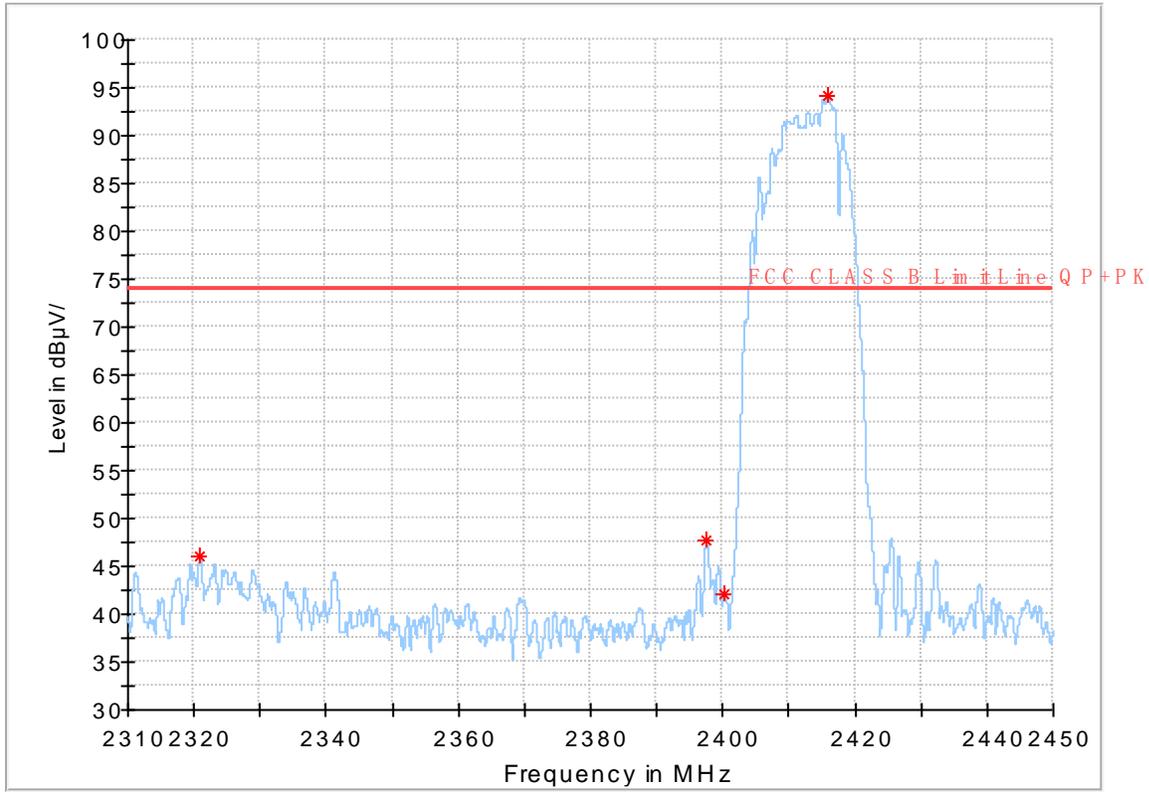


## Final Result

Frequency (MHz)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2327.709667	50.44	54.00	3.56	200.0	1000.000	178.0	H	108.0	-3.2

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1602.500000	39.92	---	74.00	34.08	1000.000	100.0	H	252.0	-6.5
1937.400000	42.72	---	74.00	31.28	1000.000	100.0	H	124.0	-4.5
1937.400000	---	39.93	54.00	14.07	1000.000	100.0	H	124.0	-4.5
2288.000000	54.23	---	74.00	19.77	1000.000	200.0	H	238.0	-3.0
2288.100000	---	49.86	54.00	4.14	1000.000	200.0	H	110.0	-3.0
2325.400000	56.17	---	74.00	17.83	1000.000	100.0	H	111.0	-3.2
2397.100000	---	49.37	54.00	4.63	1000.000	100.0	H	220.0	-2.7
2397.900000	54.99	---	74.00	19.01	1000.000	100.0	H	220.0	-2.7
2414.800000	101.23	---	---	---	1000.000	200.0	H	257.0	-2.5
2415.400000	---	98.91	---	---	1000.000	200.0	H	257.0	-2.5
6985.600000	55.65	---	74.00	18.35	1000.000	100.0	H	129.0	12.6

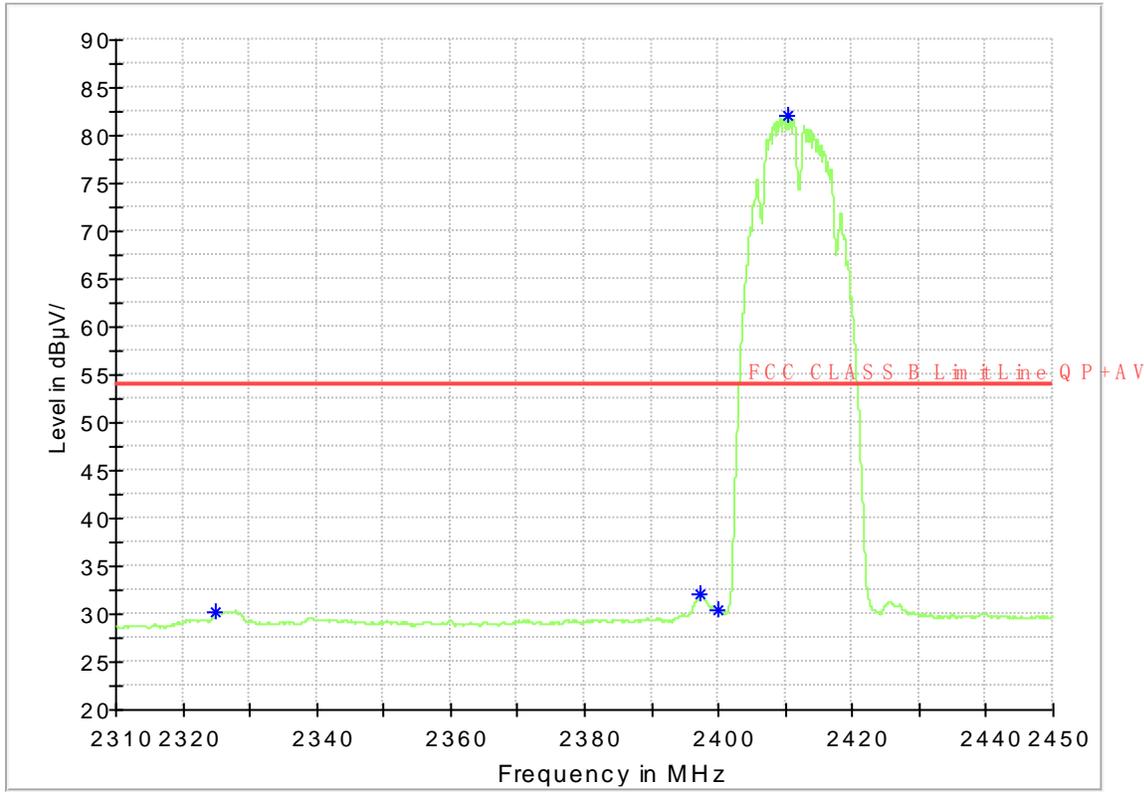
Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2320.892000	46.13	74.00	27.87	1000.000	100.0	H	55.0	-2.0
2397.528000	47.61	74.00	26.39	1000.000	100.0	H	89.0	-1.9
2400.300000	42.16	74.00	31.84	1000.000	100.0	H	36.0	-1.8
2415.966000	94.13	---	---	1000.000	100.0	H	90.0	-1.5

Full Spectrum



Final Result

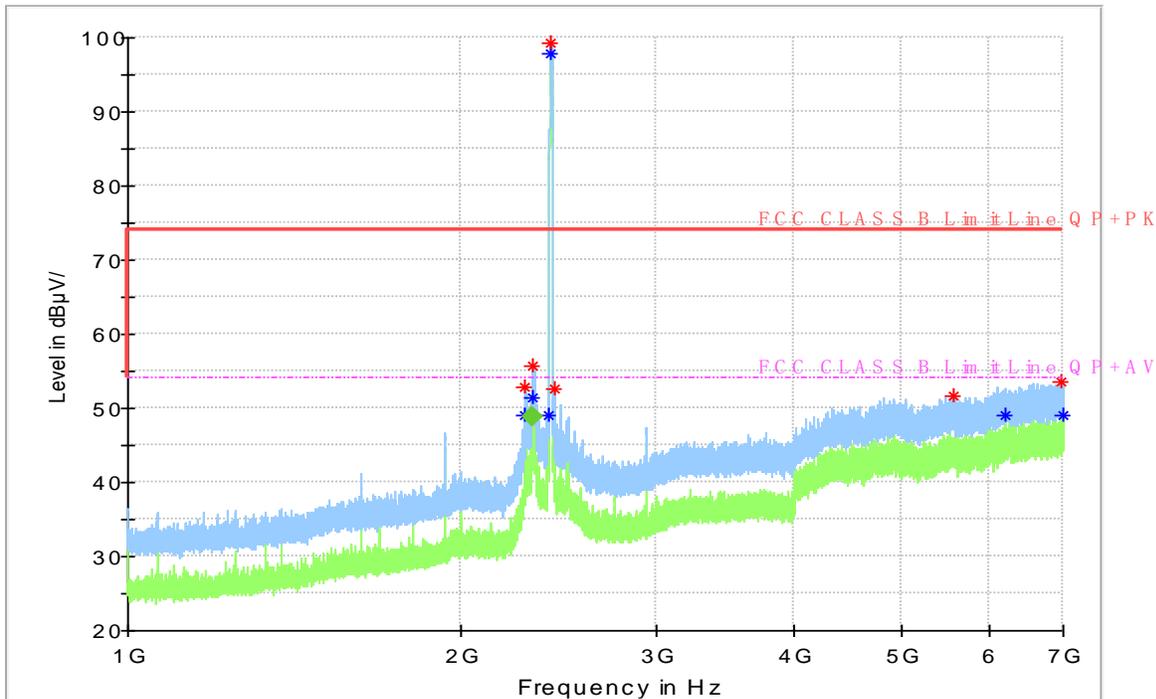
Frequency (MHz)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2324.980000	30.27	54.00	23.73	1000.000	100.0	H	0.0	-2.1
2397.276000	32.13	54.00	21.87	1000.000	100.0	H	0.0	-1.9
2400.020000	30.34	54.00	23.66	1000.000	100.0	H	0.0	-1.8
2410.296000	82.12	---	---	1000.000	100.0	H	0.0	-1.6

## TEST

### Electric Field Strength

**EUT:** ZXR10 1800-2S(W)  
**Manufacturer:** ZTE Corporation  
**Operating Condition:** Running  
**Test Site:** ZTETS EMC Shenzhen LAB  
**Operator:** Zhang Qichao  
**Test Specification:** FCC Part 15 CLASS B  
**Comment:** Vertical (B mode-1Channel) -1GHZ~7GHZ

Full Spectrum

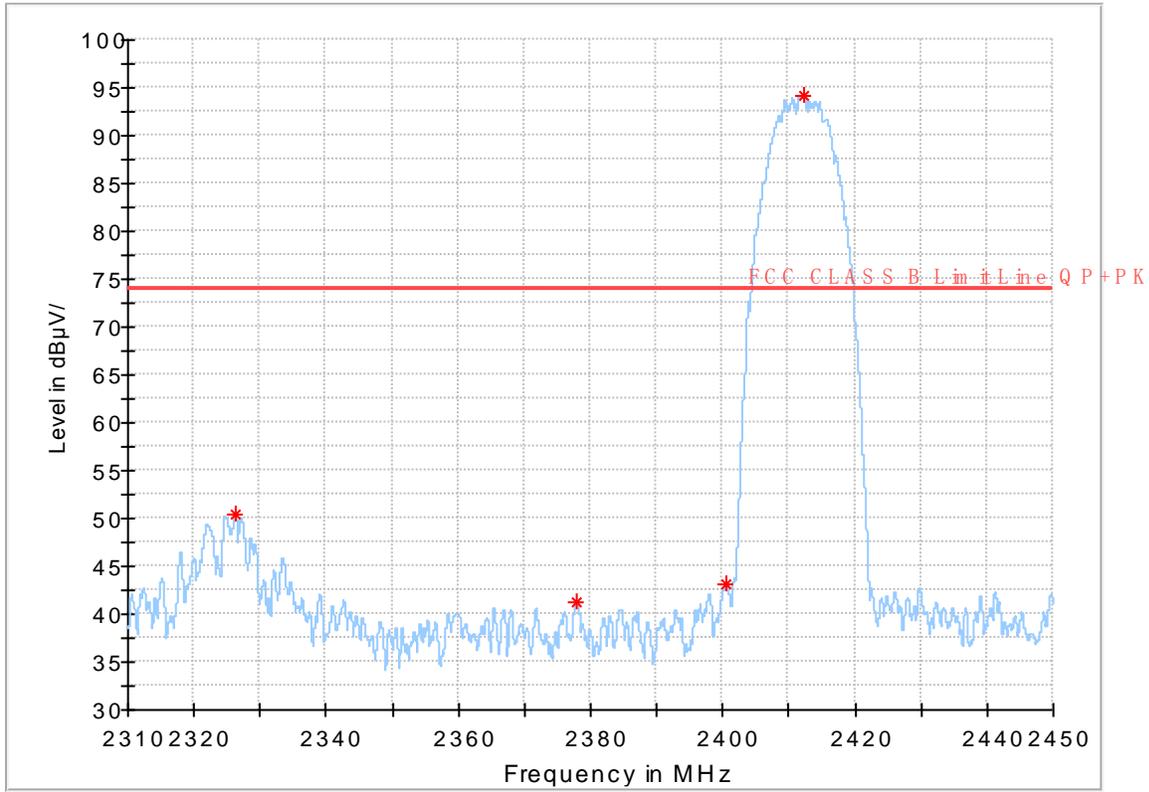


## Final Result

Frequency (MHz)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2325.977333	48.82	54.00	5.18	1000.000	100.0	V	200.0	-3.2

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2288.100000	---	49.01	54.00	4.99	1000.000	100.0	V	158.0	-3.0
2288.100000	52.87	---	74.00	21.13	1000.000	100.0	V	158.0	-3.0
2325.977333	---	51.50	54.00	2.50	1000.000	100.0	V	200.0	-3.2
2326.100000	55.61	---	74.00	18.39	1000.000	200.0	V	22.0	-3.2
2397.100000	---	49.03	54.00	4.97	1000.000	200.0	V	2.0	-2.7
2411.500000	---	97.94	---	---	1000.000	200.0	V	327.0	-2.6
2414.700000	99.36	---	---	---	1000.000	200.0	V	41.0	-2.5
2426.800000	52.64	---	74.00	21.36	1000.000	200.0	V	0.0	-2.3
5573.600000	51.73	---	74.00	22.27	1000.000	200.0	V	230.0	11.6
6215.800000	---	49.04	54.00	4.96	1000.000	200.0	V	66.0	12.9
6971.500000	53.65	---	74.00	20.35	1000.000	200.0	V	182.0	12.6
6987.900000	---	49.13	54.00	4.87	1000.000	100.0	V	142.0	12.6

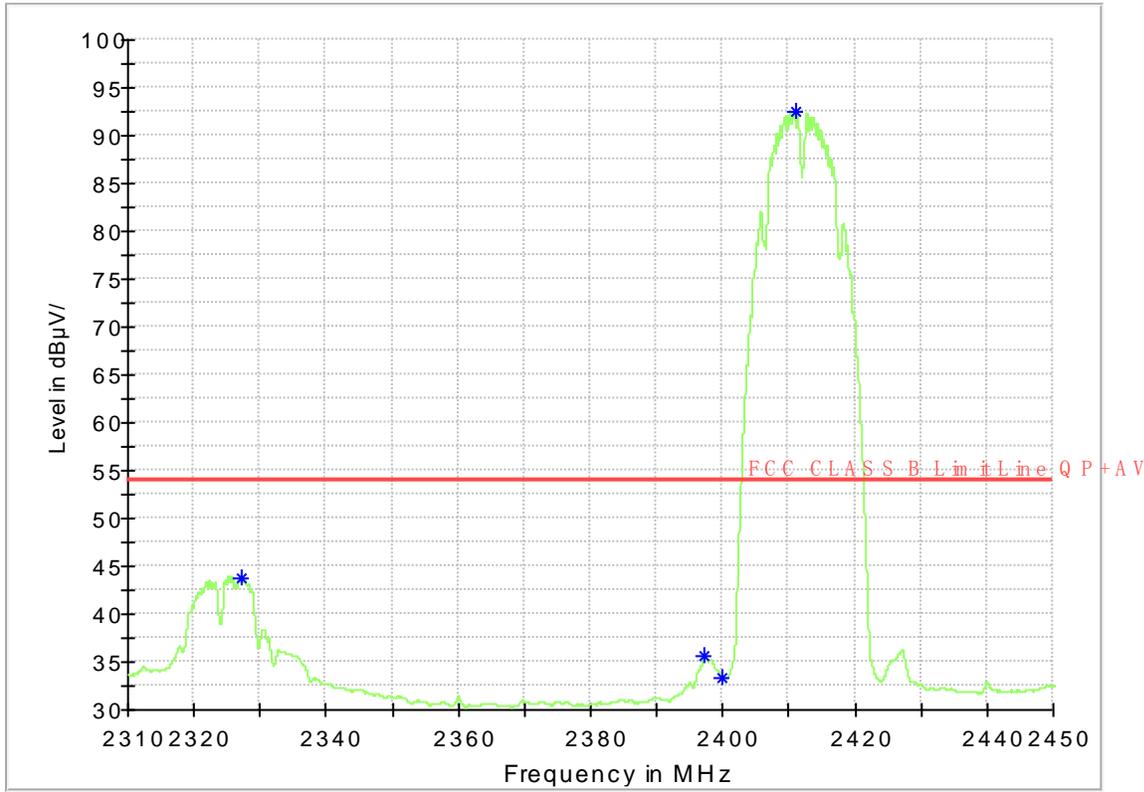
Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2326.268000	50.49	74.00	23.51	1000.000	100.0	V	24.0	-2.1
2377.802000	41.25	74.00	32.75	1000.000	100.0	V	2.0	-2.2
2400.510000	43.16	74.00	30.84	1000.000	100.0	V	45.0	-1.8
2412.284000	94.08	---	---	1000.000	100.0	V	34.0	-1.5

Full Spectrum



Final Result

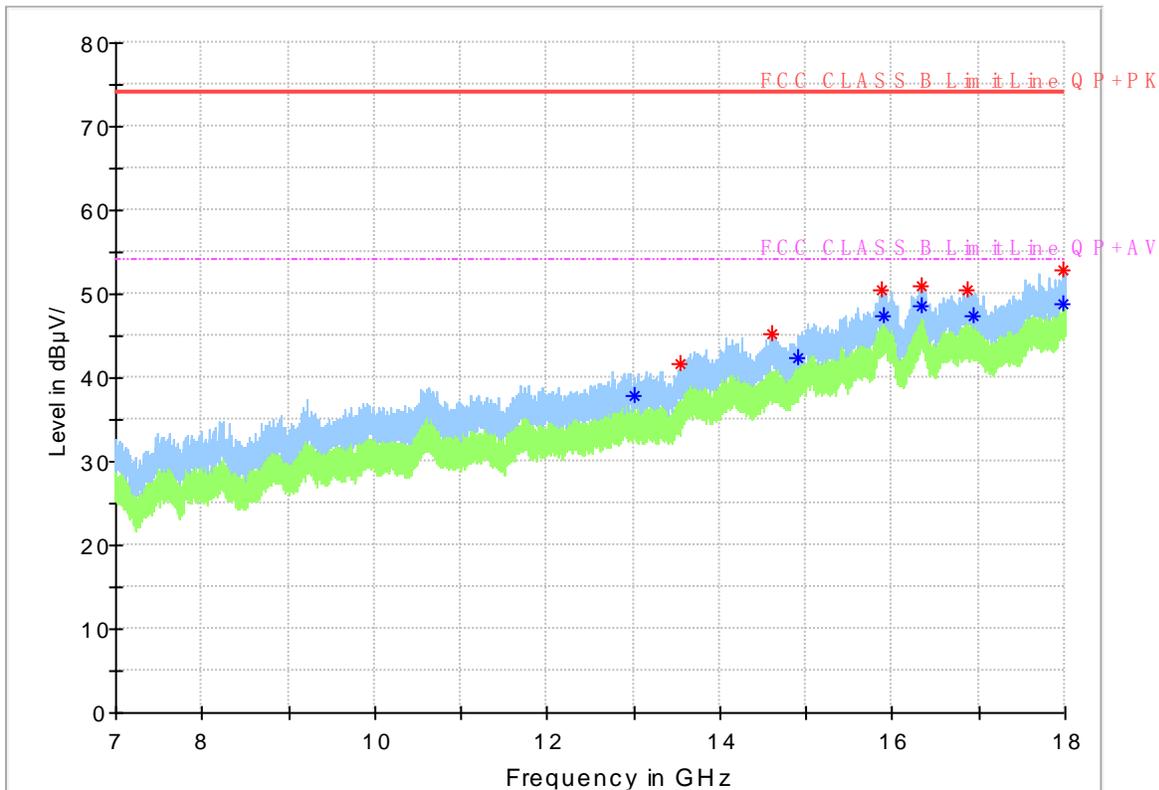
Frequency (MHz)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2327.108000	43.78	54.00	10.22	1000.000	100.0	V	19.0	-2.1
2397.276000	35.69	54.00	18.31	1000.000	100.0	V	45.0	-1.9
2400.020000	33.30	54.00	20.7	1000.000	100.0	V	34.0	-1.8
2411.220000	92.49	---	---	1000.000	100.0	V	34.0	-1.5

## TEST

### Electric Field Strength

**EUT:** ZXR10 1800-2S(W)  
**Manufacturer:** ZTE Corporation  
**Operating Condition:** Running  
**Test Site:** ZTETS EMC Shenzhen LAB  
**Operator:** Zhang Qichao  
**Test Specification:** FCC Part 15 CLASS B  
**Comment:** Horizontal (B mode-1Channel) -7GHZ~18GHZ

Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
16929.333333	---	47.34	54.00	6.66	1000.000	200.0	H	95.0	17.1
16327.266667	50.96	---	74.00	23.04	1000.000	200.0	H	112.0	16.3
15883.600000	50.39	---	74.00	23.61	1000.000	100.0	H	120.0	16.4
16342.300000	---	48.48	54.00	5.52	1000.000	100.0	H	126.0	16.2
13548.300000	41.62	---	74.00	32.38	1000.000	200.0	H	129.0	10.4
17981.300000	52.94	---	74.00	21.06	1000.000	100.0	H	144.0	19.4
17981.300000	---	48.86	54.00	5.14	1000.000	100.0	H	144.0	19.4
15899.366667	---	47.37	54.00	6.63	1000.000	100.0	H	172.0	16.4
14610.533333	45.18	---	74.00	28.82	1000.000	100.0	H	205.0	13.3
13019.200000	---	37.95	54.00	16.05	1000.000	200.0	H	268.0	9.6
14900.933333	---	42.43	54.00	11.57	1000.000	200.0	H	281.0	13.5
16865.533333	50.45	---	74.00	23.55	1000.000	200.0	H	293.0	17.2