



**FCC PART 15C
TEST REPORT
No. I16N01168-WLAN**

for

**Yulong Computer Telecommunication Scientific (Shenzhen)
Co., Ltd**

Smart Phone

Model Name: Coolpad 3622A

With

Hardware Version: P2

Software Version: 091.00.160130

FCC ID: R38YL3622A

Issued Date: Nov 14th, 2016

Test Laboratory:

FCC 2.948 Listed: No.342690

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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REPORT HISTORY

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1. Test Laboratory

1.1. Testing Location

Location1: CTTL(South Branch)

Address: TCL International E city No. 1001 Zhongshanyuan Road, Nanshan
District, Shenzhen, Guangdong, China 518000

1.2. Testing Environment

Normal Temperature: 15-35℃

Extreme Temperature: -15/+55℃

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2016-10-19

Testing End Date: 2016-11-11

1.4. Signature

An Ran

(Prepared this test report)

Tang Weisheng

(Reviewed this test report)

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(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
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Park(North), Nanshan district, Shenzhen, P.R.C
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2.2. Manufacturer Information

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Postal Code: /
Country: China
Telephone: +86 13410415799
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smart Phone
Model Name	Coolpad 3622A
Market Name	Coolpad Catalyst
RF Protocol	IEEE 802.11b/g/n20
Operating Frequency	2412MHz~2462MHz
FCC ID	R38YL3622A

*Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	P2	091.00.160130

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	Type	SN
AE1	Charger	Charger	CYSK05-050100

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	Nov, 2015
ANSI C63.10	American National Standard for Testing Unlicensed Wireless Devices	Jun, 2013

5. Test Results

5.1. Summary of Test Results

No	Test cases	Standard Sub-clause	Verdict
0	Antenna Requirement	15.203	P
1	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	P
2	AC Powerline Conducted Emission	15.107, 15.207	P

See **ANNEX B** and **ANNEX C** for details.

5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacture as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

5.3. Terms used in the result table

Terms used in Verdict column

P	Pass
NA	Not Available
F	Fail

Abbreviations

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropical radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

5.4. Laboratory Environment

Semi-anechoic chamber (23 meters×17 meters×10 meters) did not exceed following limits:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

Shielded room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

6. Test Facilities Utilized

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Chamber	FACT5-2.0	4166	ETS-Lindgren	2018-05-13	3 years
2.	Test Receiver	ESCI	100701	Rohde & Schwarz	2017-08-09	1 year
3.	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2017-01-20	3 years
4.	Horn Antenna	3117	00066577	ETS-Lindgren	2019-03-05	3 years
5.	Spectrum Analyser	FSP40	100378	Rohde & Schwarz	2016-12-18	1 year
6.	Loop Antenna	HLA6120	35779	TESEQ	2019-05-10	3 years
7.	Test Receiver	ESCI	100702	Rohde & Schwarz	2017-06-26	1 year
8.	LISN	ESH2-Z5	100196	Rohde & Schwarz	2017-01-12	1 year
9.	Universal Radio Communication Tester	CMW500	152499	Schwarzbeck	2017-07-21	1 year

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren.

7. Measurement Uncertainty

Test Name	Uncertainty	
1.Transmitter Spurious Emission - Radiated	$9\text{k}\leq f\leq 30\text{MHz}$	$\pm 4.00\text{dB}$
	$30\text{M}\leq f\leq 1\text{GHz}$	$\pm 5.08\text{dB}$
	$1\text{GHz}\leq f\leq 18\text{GHz}$	$\pm 4.56\text{dB}$
	$18\text{GHz}\leq f\leq 26\text{GHz}$	$\pm 4.56\text{dB}$
2.AC Powerline Conducted Emission	$\pm 2.7\text{dB}$	

ANNEX A: MEASUREMENT RESULTS FOR RECEIVER

A.0 Antenna requirement

Measurement Limit:

Standard	Requirement
FCC CRF Part 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, § 15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Conclusion: The Directional gains of antenna used for transmitting is 2.3 dBi.
The RF transmitter uses an integrate antenna without connector.

A.1 Transmitter Spurious Emission

A.1.1 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Note:

According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band below 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic.

The measurement results include the horizontal polarization and vertical polarization measurements.

Measurement Results:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	1 GHz ~ 18 GHz	Fig.1	P
	6	9 kHz ~30 MHz	Fig.2	P
		30 MHz ~1 GHz	Fig.3	P
		1 GHz ~ 18 GHz	Fig.4	P
		18 GHz~ 26.5 GHz	Fig.5	P
	11	1 GHz ~ 18 GHz	Fig.6	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.7	P
	Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.8	P
802.11g	1	1 GHz ~ 18 GHz	Fig.9	P
	6	9 kHz ~30 MHz	Fig.10	P
		30 MHz ~1 GHz	Fig.11	P
		1 GHz ~ 18 GHz	Fig.12	P
		18 GHz~ 26.5 GHz	Fig.13	P
	11	1 GHz ~ 18 GHz	Fig.14	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.15	P
	Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.16	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	1 GHz ~ 18 GHz	Fig.17	P
	6	9 kHz ~30 MHz	Fig.18	P
		30 MHz ~1 GHz	Fig.19	
		1 GHz ~ 18 GHz	Fig.20	P
		18 GHz~ 26.5 GHz	Fig.21	P
	11	1 GHz ~ 18 GHz	Fig.22	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.23	P
	Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.24	P

802.11b CH1 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14532.500000	55.9	V	11.8	18.1	74.0
15142.500000	56.9	H	12.1	17.1	74.0
15653.000000	57.9	H	12.6	16.1	74.0
16215.000000	58.2	H	13.1	15.8	74.0
16672.500000	59.2	H	13.8	14.8	74.0
17371.500000	58.8	V	14.0	15.2	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14532.500000	44.2	V	11.8	9.8	54.0
15168.500000	45.1	V	12.1	8.9	54.0
15750.500000	46.4	H	12.8	7.6	54.0
16200.000000	46.9	V	13.1	7.1	54.0
16727.500000	47.3	V	13.8	6.7	54.0
17287.500000	46.9	H	13.9	7.1	54.0

802.11b CH 6(1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14156.000000	56.6	V	11.2	17.4	74.0
14609.500000	56.7	H	11.9	17.3	74.0
15725.000000	58.9	H	12.7	15.1	74.0
16186.500000	58.5	V	13.1	15.5	74.0
16772.500000	59.2	V	13.9	14.8	74.0
17353.500000	60.2	V	14.0	13.8	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14165.000000	43.9	H	11.2	10.1	54.0
15160.000000	45.0	H	12.1	9.0	54.0
15730.500000	46.6	H	12.7	7.4	54.0
16216.000000	47.0	H	13.1	7.0	54.0
16773.500000	47.8	V	13.9	6.2	54.0
17354.000000	47.1	H	14.0	6.9	54.0

802.11b CH11 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14498.000000	56.2	H	11.8	17.8	74.0
15183.000000	58.4	H	12.2	15.6	74.0
15707.500000	58.5	V	12.7	15.5	74.0
16246.000000	58.3	V	13.2	15.7	74.0
16727.000000	59.0	H	13.8	15.0	74.0
17468.000000	58.5	V	14.0	15.5	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14543.000000	44.4	H	11.9	9.6	54.0
15157.500000	45.2	V	12.1	8.8	54.0
15670.000000	46.6	V	12.6	7.4	54.0
16218.000000	46.7	V	13.1	7.3	54.0
16786.000000	47.3	V	13.9	6.7	54.0
17347.500000	46.9	V	14.0	7.1	54.0

802.11g CH1 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
13979.500000	55.5	H	10.8	18.5	74.0
15073.000000	56.6	H	12.1	17.4	74.0
15660.000000	58.6	H	12.6	15.4	74.0
16186.000000	58.3	H	13.1	15.7	74.0
16872.000000	59.2	V	14.0	14.8	74.0
17782.000000	58.6	H	13.9	15.4	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14540.000000	43.9	H	11.9	10.1	54.0
15153.000000	44.9	H	12.1	9.1	54.0
15678.500000	46.5	H	12.6	7.5	54.0
16200.500000	47.0	V	13.1	7.0	54.0
16781.000000	47.6	H	13.9	6.4	54.0
17279.500000	47.1	H	13.9	6.9	54.0

802.11g CH6 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14532.500000	56.4	H	11.8	17.6	74.0
14646.000000	56.8	H	11.9	17.2	74.0
15782.000000	58.6	H	12.8	15.4	74.0
16332.000000	59.3	V	13.4	14.7	74.0
16772.500000	58.7	H	13.9	15.3	74.0
17281.500000	59.2	V	13.9	14.8	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14543.500000	44.2	V	11.9	9.8	54.0
15158.000000	45.1	V	12.1	8.9	54.0
15686.000000	46.4	H	12.6	7.6	54.0
16220.500000	46.6	V	13.1	7.4	54.0
16729.000000	47.3	V	13.8	6.7	54.0
17292.000000	46.9	V	13.9	7.1	54.0

802.11g CH11 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14513.500000	56.1	H	11.8	17.9	74.0
14602.000000	56.9	V	11.9	17.1	74.0
15726.000000	58.2	H	12.7	15.8	74.0
16292.500000	58.2	V	13.3	15.8	74.0
16858.000000	58.3	H	13.9	15.7	74.0
17285.000000	58.5	H	13.9	15.5	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14537.500000	44.3	V	11.9	9.7	54.0
15162.500000	45.1	H	12.1	8.9	54.0
15773.500000	46.2	H	12.8	7.8	54.0
16202.000000	46.2	V	13.1	7.8	54.0
16734.000000	46.8	V	13.8	7.2	54.0
17360.000000	46.4	H	14.0	7.6	54.0

802.11n-20MHz CH1 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14135.500000	56.0	H	11.2	18.0	74.0
15176.000000	56.7	H	12.1	17.3	74.0
15682.000000	58.4	H	12.6	15.6	74.0
16207.500000	58.8	V	13.1	15.2	74.0
16698.500000	59.1	V	13.8	14.9	74.0
17789.000000	58.8	V	13.9	15.2	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14159.000000	43.8	V	11.2	10.2	54.0
15179.000000	44.8	H	12.2	9.2	54.0
15714.500000	46.5	V	12.7	7.5	54.0
16206.500000	47.0	V	13.1	7.0	54.0
16785.500000	47.7	H	13.9	6.3	54.0
17294.500000	47.2	H	13.9	6.8	54.0

802.11n-20MHz CH6 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14126.000000	55.9	H	11.2	18.1	74.0
15102.500000	57.3	V	12.1	16.7	74.0
15752.000000	58.2	V	12.8	15.8	74.0
16178.000000	58.7	V	13.1	15.3	74.0
16708.500000	59.2	V	13.8	14.8	74.0
17805.000000	59.0	V	13.9	15.0	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14527.000000	44.2	H	11.8	9.8	54.0
15143.000000	45.1	V	12.1	8.9	54.0
15709.500000	46.7	V	12.7	7.3	54.0
16238.000000	47.0	V	13.1	7.0	54.0
16768.000000	47.5	H	13.9	6.5	54.0
17272.500000	47.1	H	13.9	6.9	54.0

802.11n-20MHz CH11 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14553.500000	56.7	V	11.9	17.3	74.0
15123.000000	57.1	H	12.1	16.9	74.0
15693.000000	58.2	H	12.7	15.8	74.0
16200.000000	58.5	H	13.1	15.5	74.0
16734.500000	59.5	H	13.8	14.5	74.0
17374.500000	58.7	V	14.0	15.3	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14519.500000	44.4	V	11.8	9.6	54.0
15159.500000	45.2	H	12.1	8.8	54.0
15743.500000	46.3	H	12.8	7.7	54.0
16225.000000	46.7	V	13.1	7.3	54.0
16768.000000	47.1	V	13.9	6.9	54.0
17300.500000	46.8	V	13.9	7.2	54.0

See ANNEX C for test graphs.

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable Loss+Antenna Factor$

A.2 AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.25	P
0.5 to 5	56		
5 to 30	60		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.25	P
0.5 to 5	46		
5 to 30	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Quasi-peak Limit)-AE1-idle

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.15 to 0.5	66 to 56	Fig.26	P
0.5 to 5	56		
5 to 30	60		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)-AE1-idle

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.26	P
0.5 to 5	46		
5 to 30	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Test Condition:

Voltage (V)	Frequency (Hz)
240	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.16 to 0.5	66 to 56	Fig.27	P
0.5 to 5	56		
5 to 30	60		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.27	P
0.5 to 5	46		
5 to 30	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Quasi-peak Limit)-AE1-idle

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.16 to 0.5	66 to 56	Fig.28	P
0.5 to 5	56		
5 to 30	60		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)-AE1-idle

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.28	P
0.5 to 5	46		
5 to 30	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

See ANNEX C for test graphs.
Conclusion: PASS

ANNEX B: TEST LAYOUTS

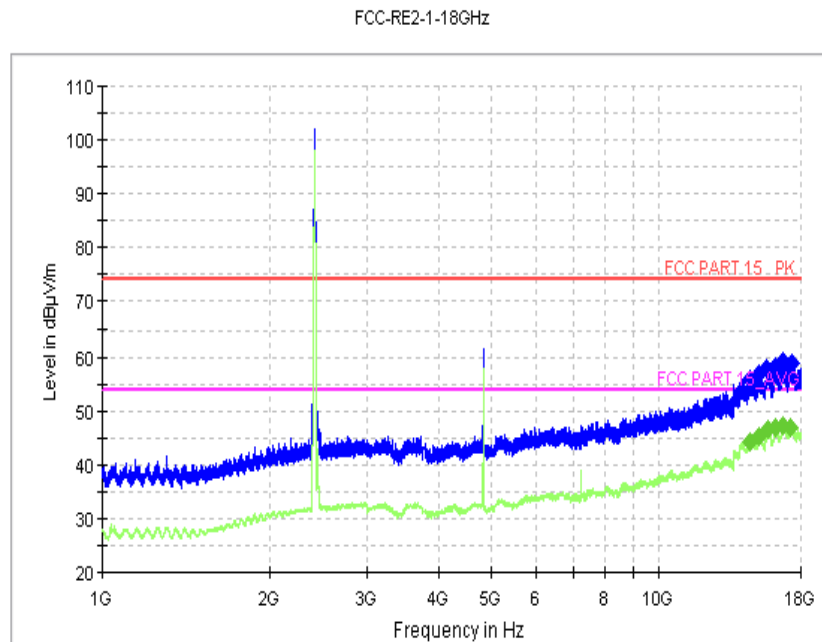


Fig.1 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-18GHz)

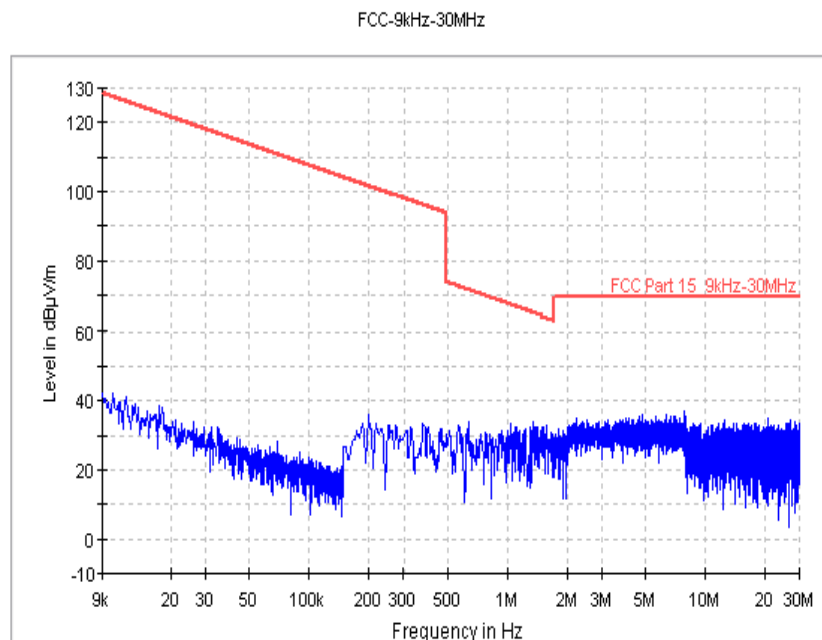


Fig.2 Radiated Spurious Emission (802.11b, Ch6, 9 kHz-30MHz)

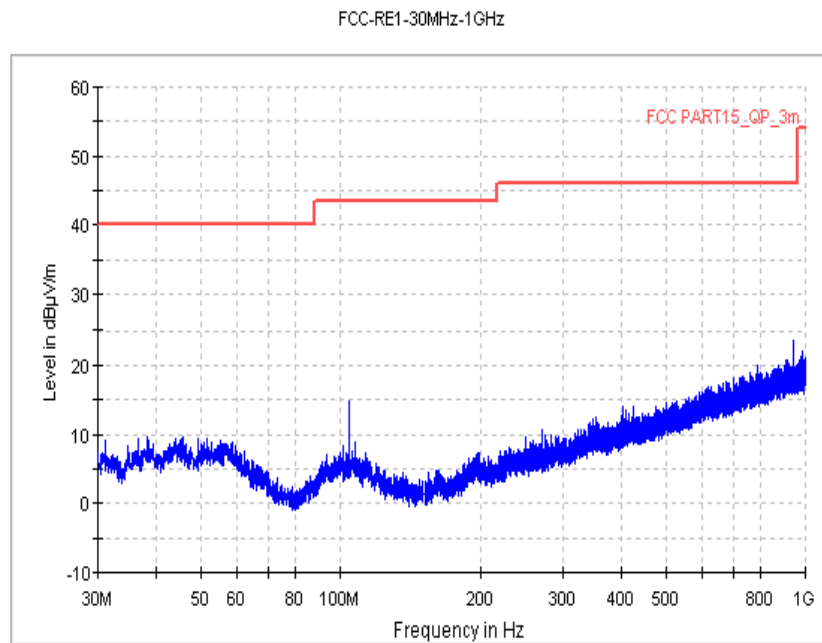


Fig.3 Radiated Spurious Emission (802.11b, Ch6, 30MHz-1 GHz)

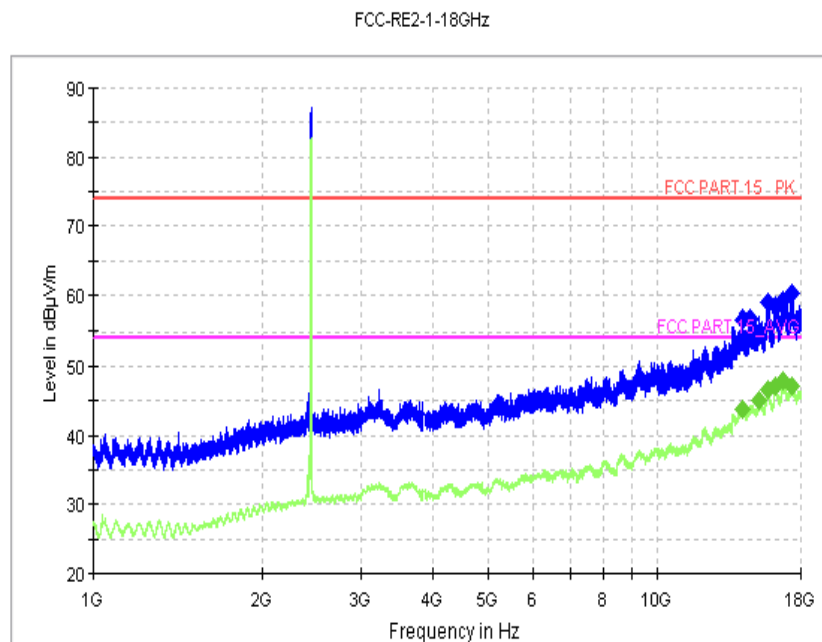


Fig.4 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-18GHz)

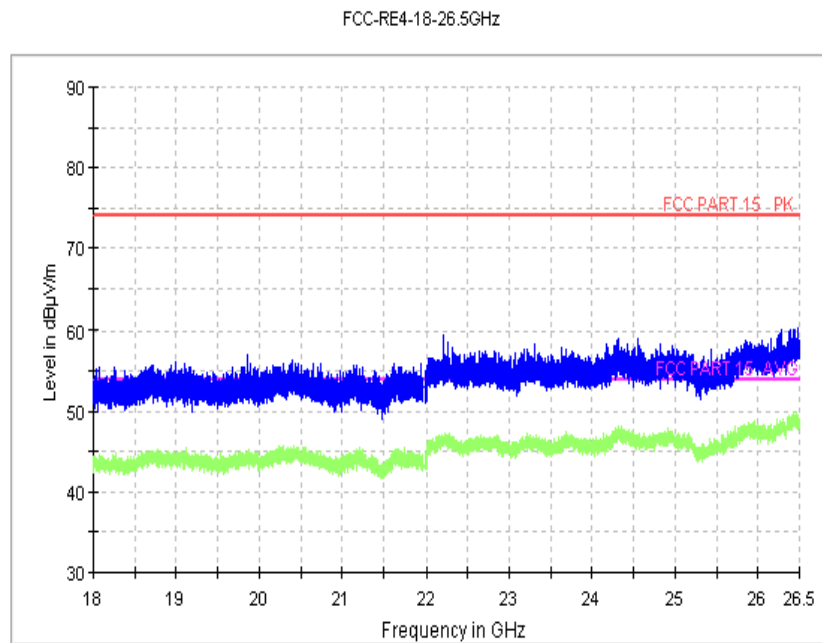


Fig.5 Radiated Spurious Emission (802.11b, Ch6, 18 GHz-26.5GHz)

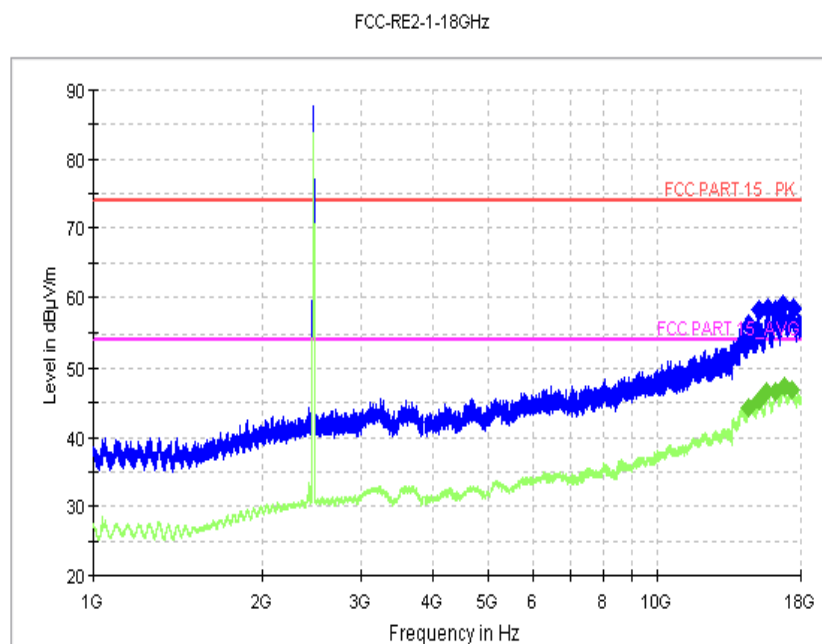


Fig.6 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-18 GHz)

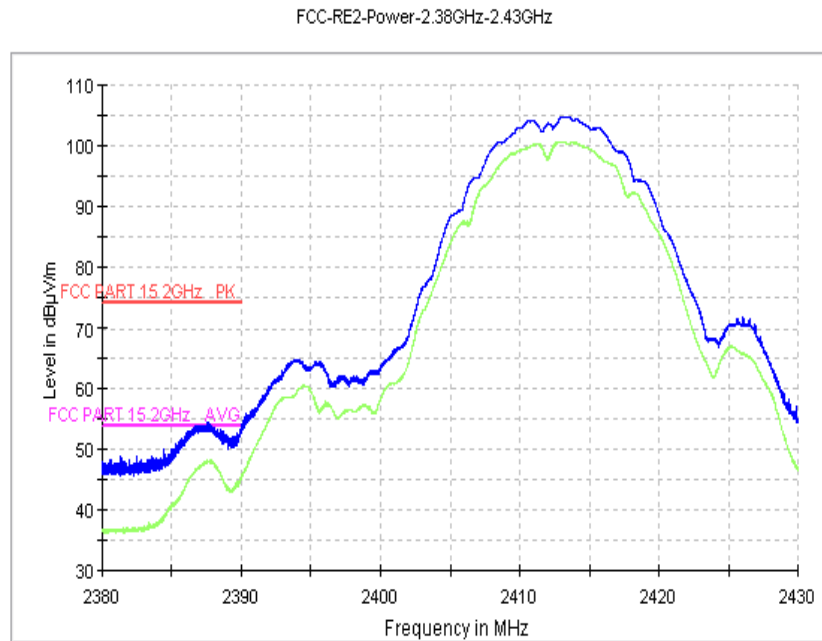


Fig.7 Radiated Emission Power (802.11b, Ch1, 2380GHz~2450GHz)

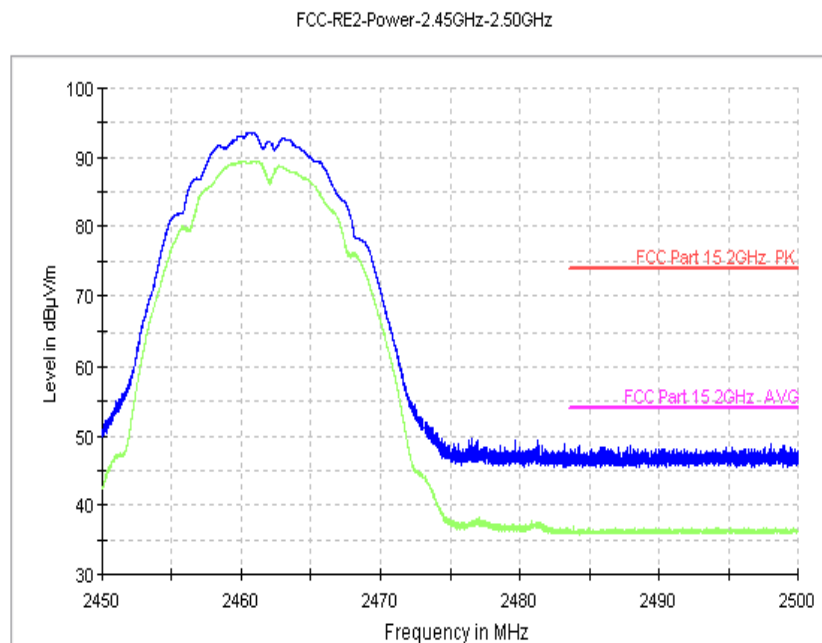


Fig.8 Radiated Emission Power (802.11b, Ch11, 2450GHz~2500GHz)

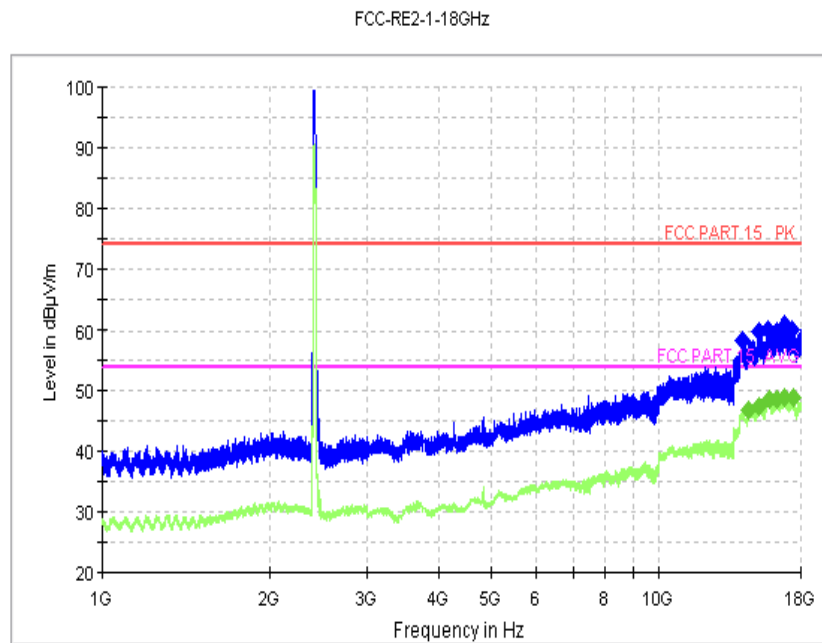


Fig.9 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-18GHz)

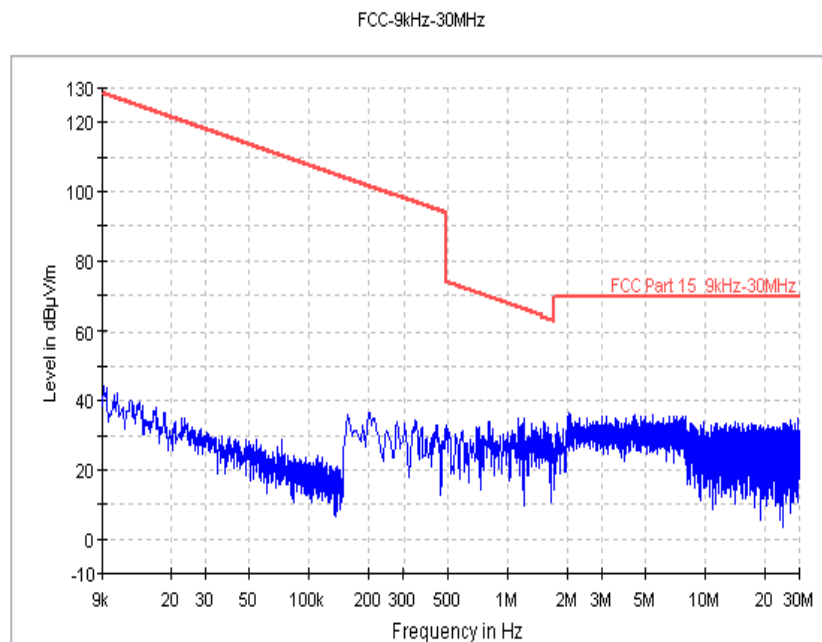


Fig.10 Radiated Spurious Emission (802.11g, Ch6, 9 kHz-30MHz)

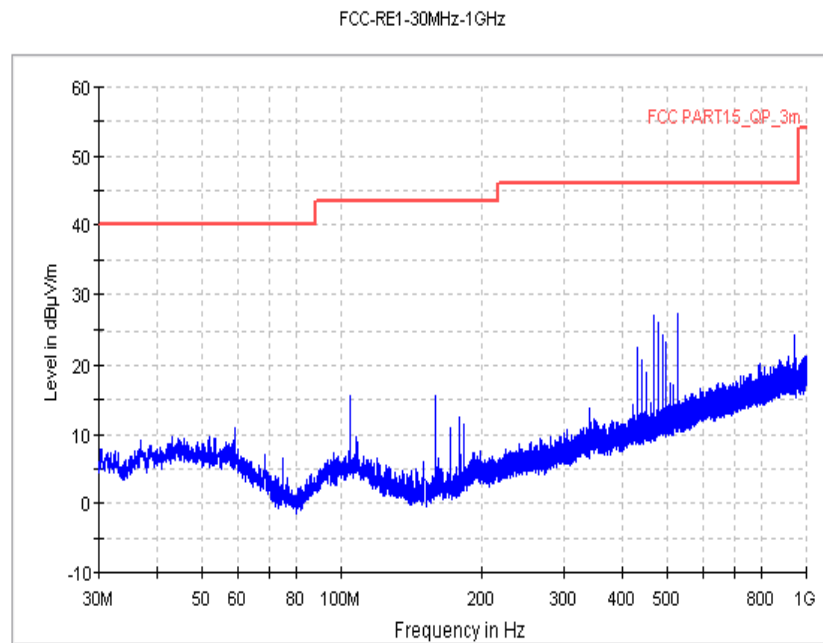


Fig.11 Radiated Spurious Emission (802.11g, Ch6, 30MHz-1 GHz)

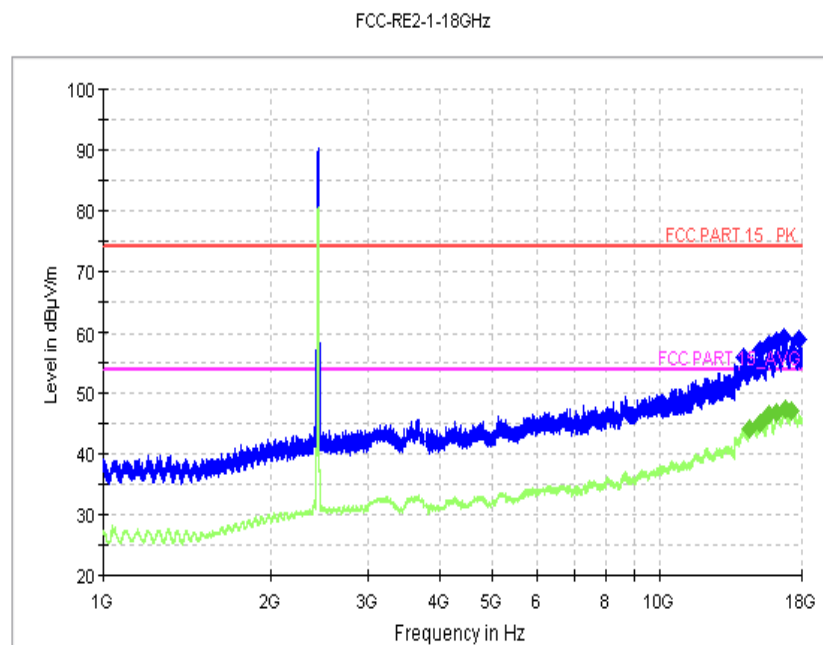


Fig.12 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-18GHz)

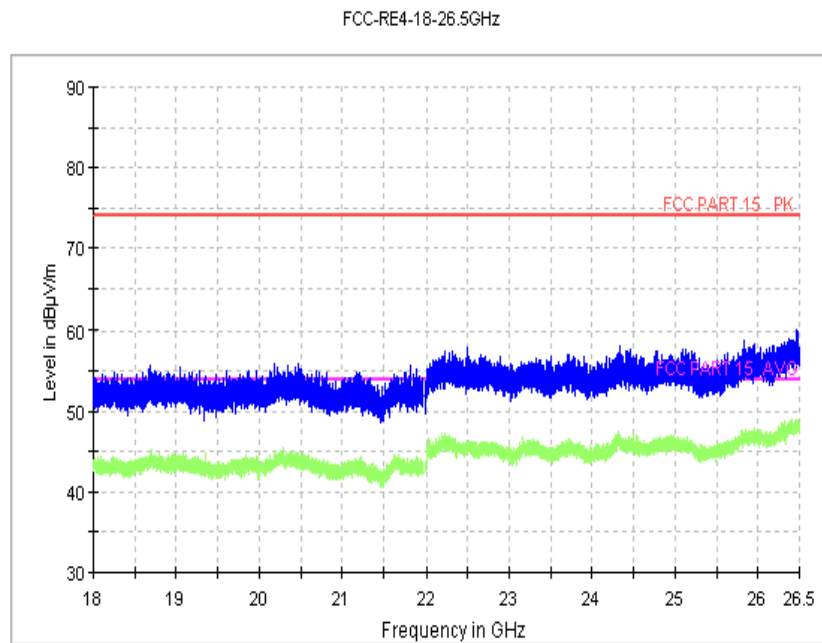


Fig.13 Radiated Spurious Emission (802.11g, Ch6, 18 GHz-26.5GHz)

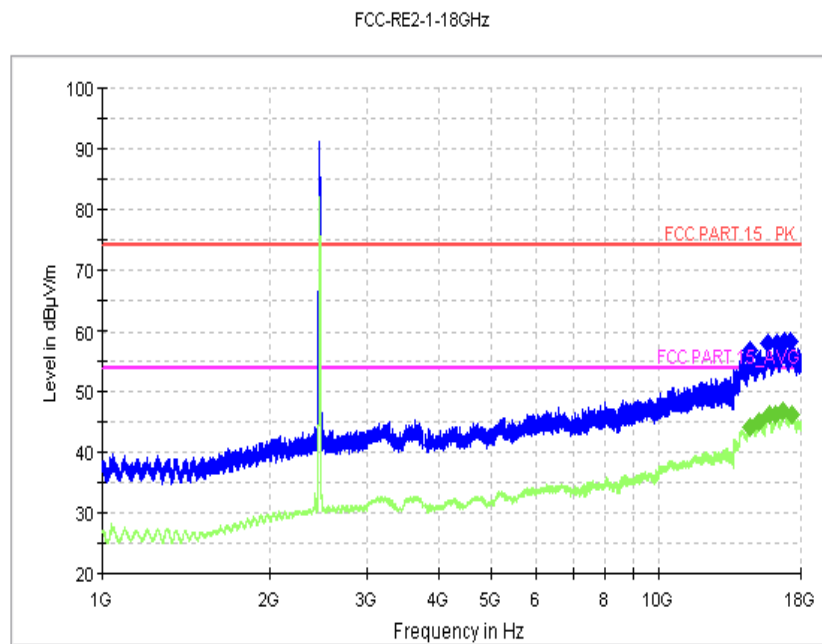


Fig.14 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-18 GHz)

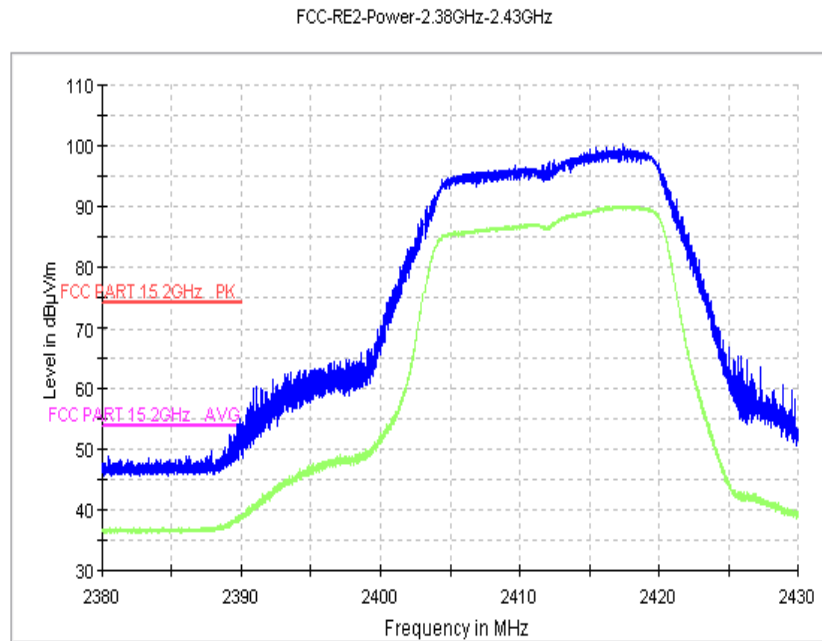


Fig.15 Radiated Emission Power (802.11g, Ch1, 2380GHz~2450GHz)

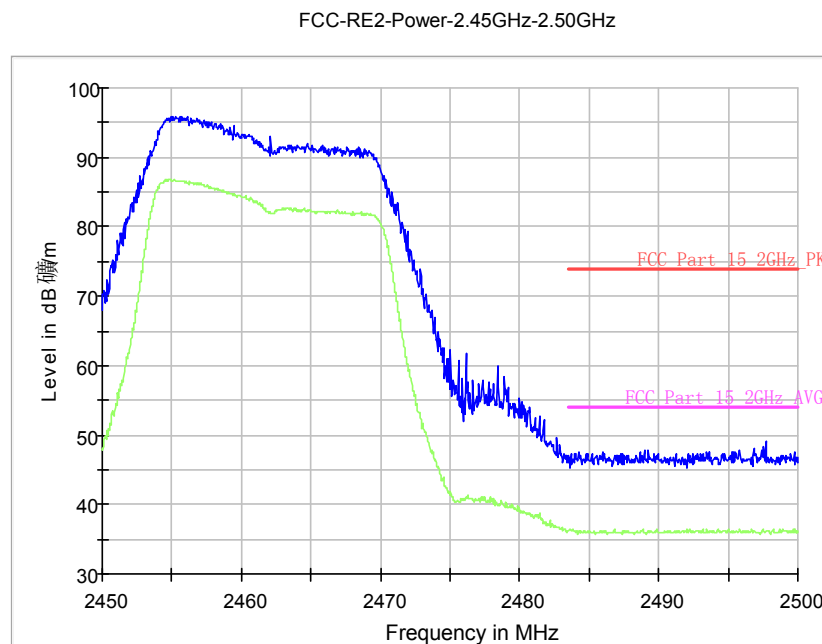


Fig.16 Radiated Emission Power (802.11g, Ch11, 2450GHz~2500GHz)

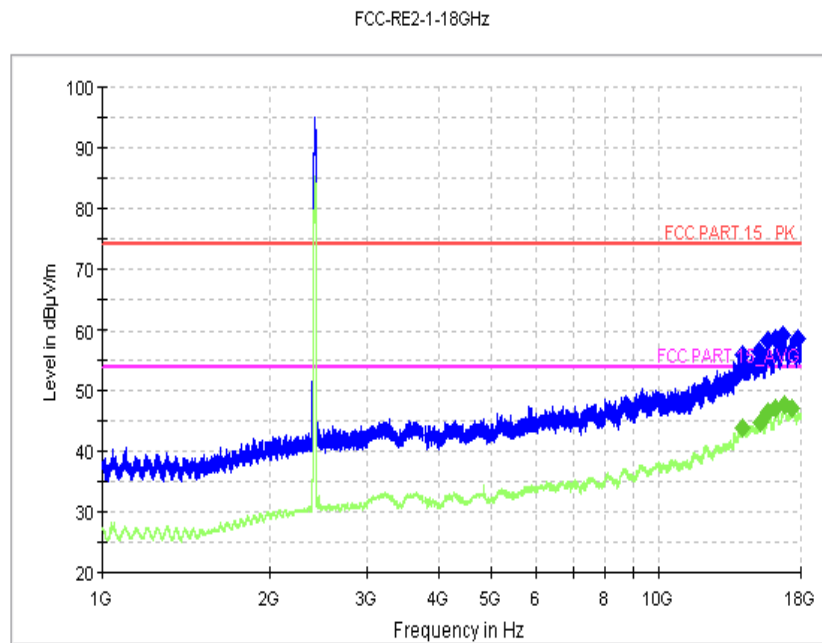


Fig.17 Radiated Spurious Emission (802.11n, Ch1, 1 GHz-18GHz)

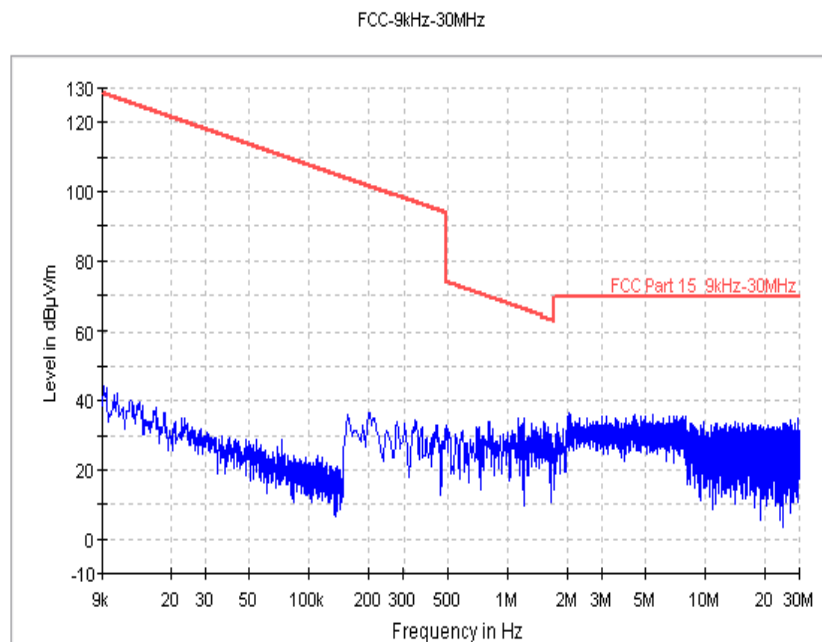


Fig.18 Radiated Spurious Emission (802.11n, Ch6, 9kHz-30 MHz)

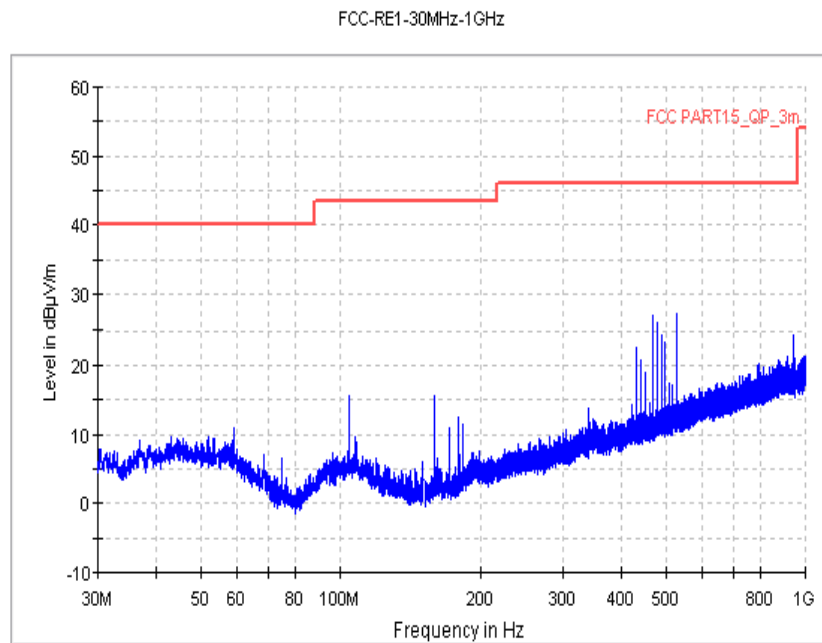


Fig.19 Radiated Spurious Emission (802.11n, Ch6, 30MHz-1 GHz)

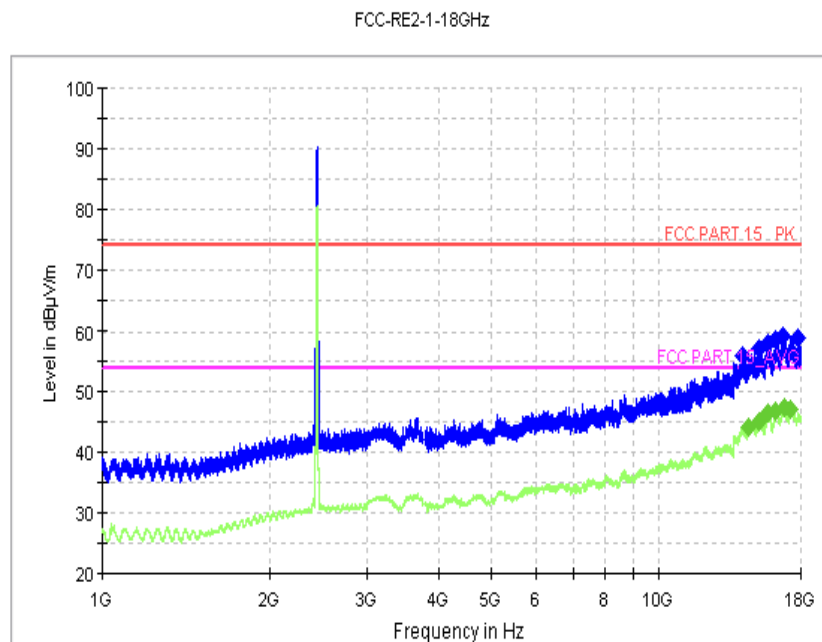


Fig.20 Radiated Spurious Emission (802.11n, Ch6, 1 GHz-18GHz)

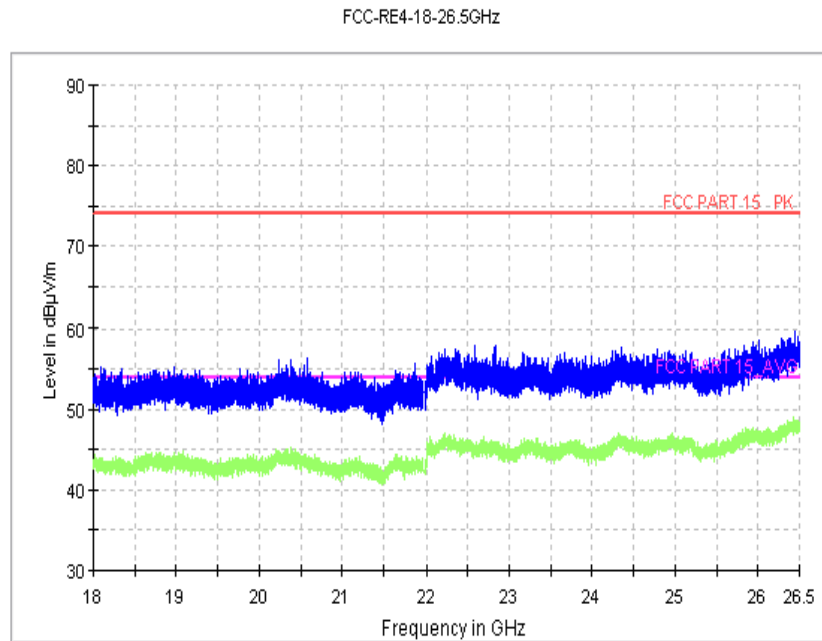


Fig.21 Radiated Spurious Emission (802.11n, Ch6, 18 GHz-26.5GHz)

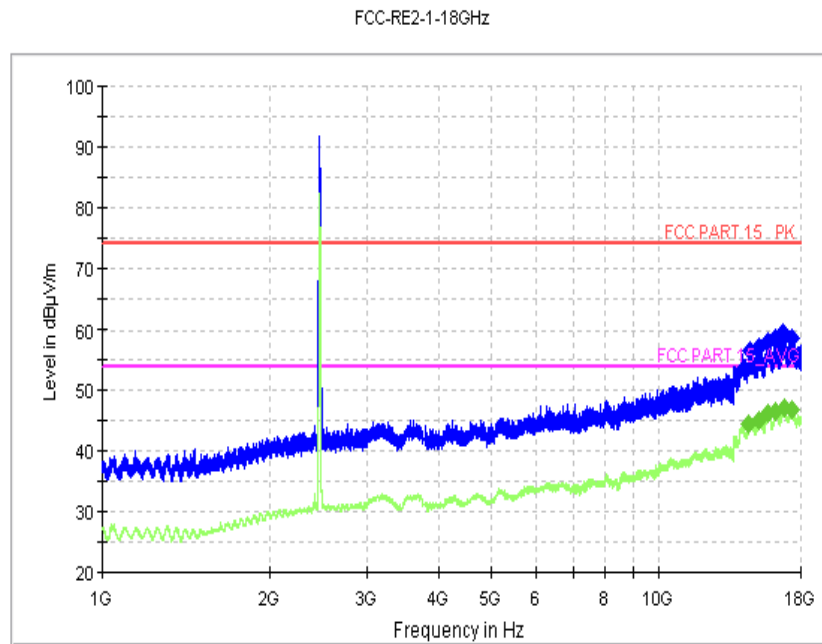


Fig.22 Radiated Spurious Emission (802.11n, Ch11, 1 GHz-18 GHz)

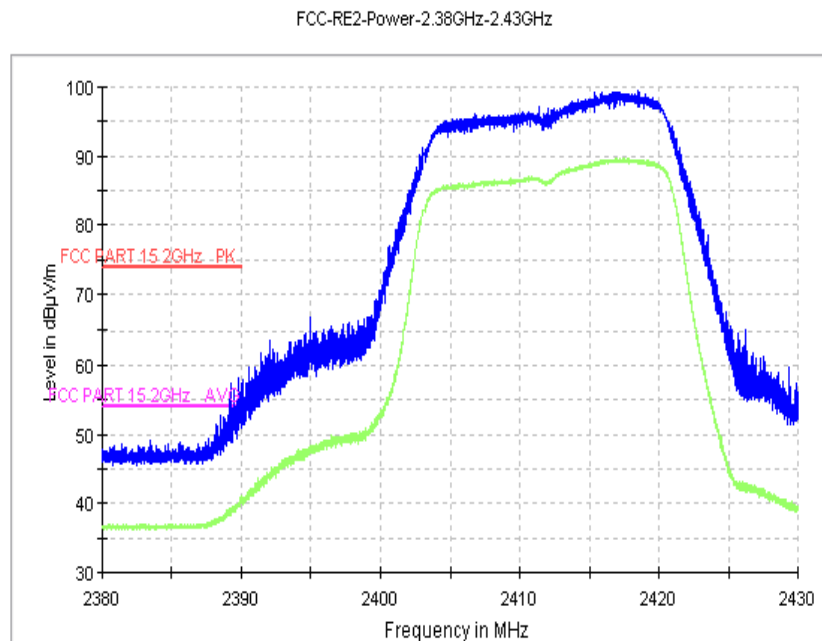


Fig.23 Radiated Emission Power (802.11n, Ch1, 2380GHz~2450GHz)

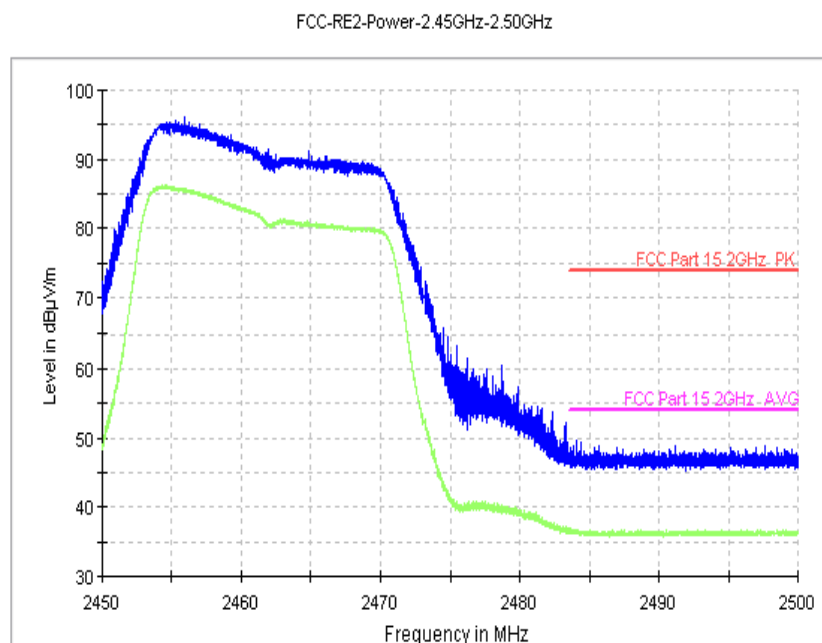


Fig.24 Radiated Emission Power (802.11n, Ch11, 2450GHz~2500GHz)

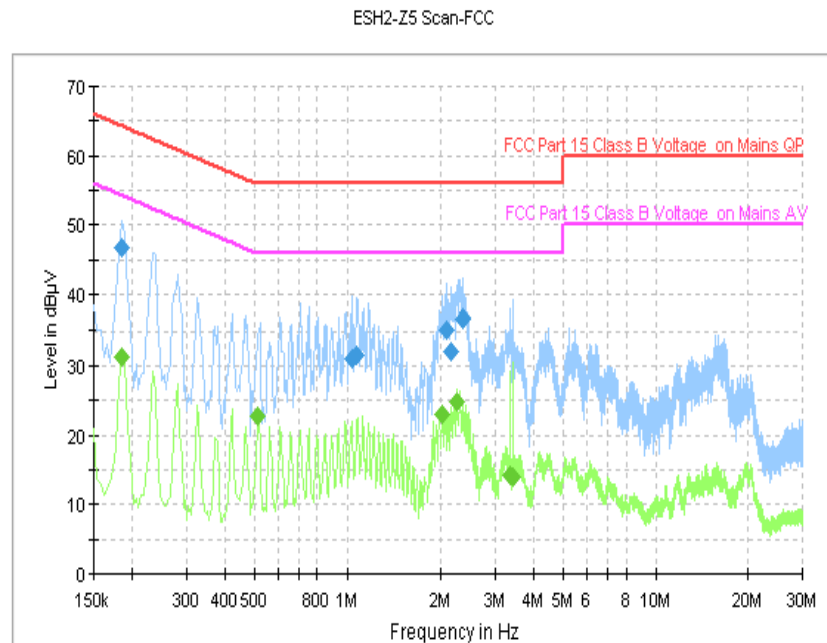


Fig.25 AC Power line Conducted Emission (Traffic, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.186000	46.8	GND	L1	9.8	17.4	64.2
1.042000	31.0	GND	L1	9.8	25.0	56.0
1.074000	31.6	GND	L1	9.8	24.4	56.0
2.078000	35.2	GND	L1	9.8	20.8	56.0
2.146000	32.1	GND	L1	9.8	23.9	56.0
2.354000	36.7	GND	L1	9.8	19.3	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.186000	31.1	GND	L1	9.8	23.1	54.2
0.514000	22.7	GND	N	9.7	23.3	46.0
2.026000	23.0	GND	L1	9.8	23.0	46.0
2.262000	24.7	GND	N	9.6	21.3	46.0
3.362000	14.2	GND	N	9.6	31.8	46.0
3.426000	13.9	GND	N	9.6	32.1	46.0

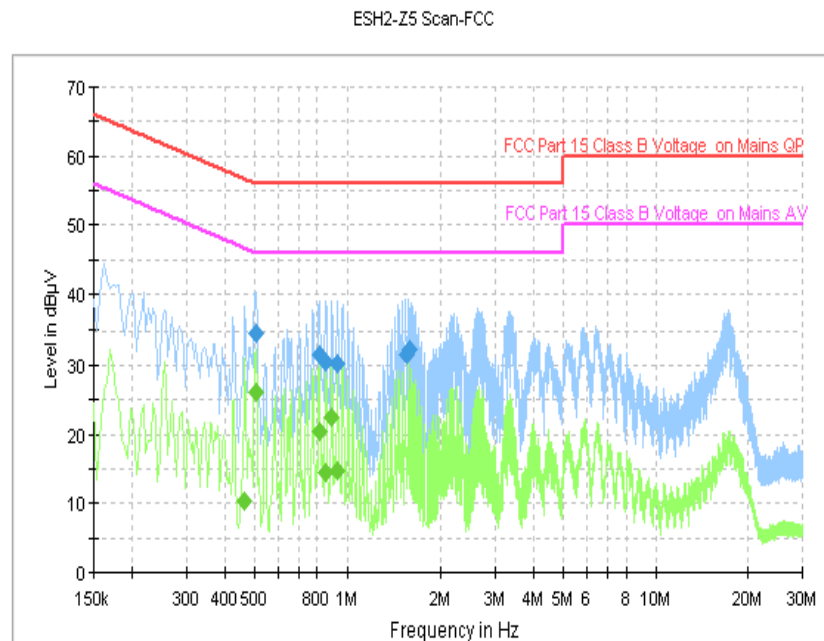


Fig.26 AC Power line Conducted Emission (Idle, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.506000	34.7	GND	L1	9.8	21.3	56.0
0.814000	31.5	GND	L1	9.8	24.5	56.0
0.854000	30.4	GND	L1	9.8	25.6	56.0
0.930000	30.1	GND	L1	9.8	25.9	56.0
1.542000	31.5	GND	L1	9.8	24.5	56.0
1.590000	32.3	GND	L1	9.8	23.7	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.466000	10.2	GND	L1	9.8	36.3	46.6
0.506000	26.2	GND	L1	9.8	19.8	46.0
0.814000	20.3	GND	L1	9.8	25.7	46.0
0.854000	14.5	GND	L1	9.8	31.5	46.0
0.894000	22.5	GND	L1	9.8	23.5	46.0
0.930000	14.6	GND	L1	9.8	31.4	46.0

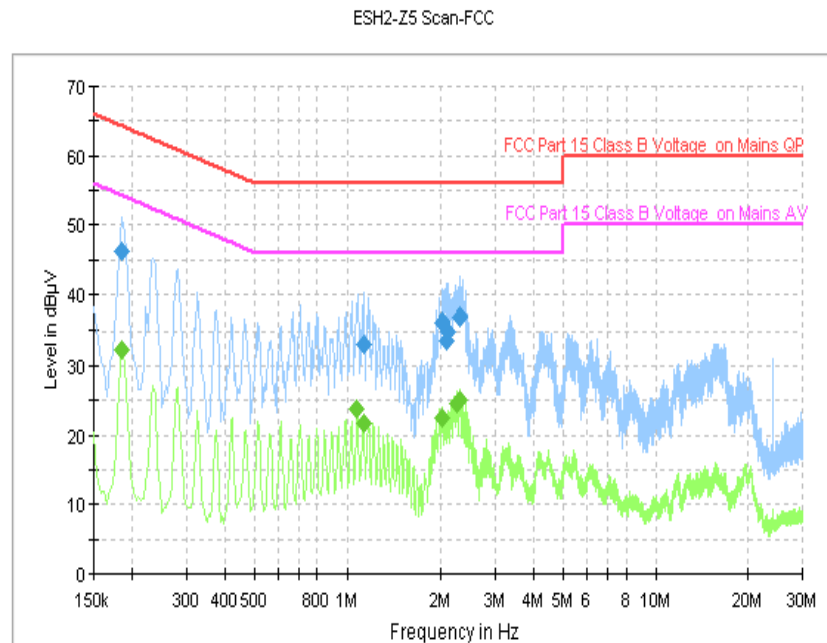


Fig.27 AC Power line Conducted Emission (Traffic, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.186000	46.2	GND	L1	9.8	18.0	64.2
1.130000	33.0	GND	L1	9.8	23.0	56.0
2.014000	36.2	GND	L1	9.8	19.8	56.0
2.078000	33.7	GND	N	9.6	22.3	56.0
2.118000	34.9	GND	L1	9.8	21.1	56.0
2.306000	36.9	GND	L1	9.8	19.1	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.186000	32.4	GND	L1	9.8	21.9	54.2
1.078000	23.8	GND	L1	9.8	22.2	46.0
1.130000	21.6	GND	L1	9.8	24.4	46.0
2.026000	22.4	GND	N	9.6	23.6	46.0
2.262000	24.5	GND	L1	9.8	21.5	46.0
2.306000	25.0	GND	L1	9.8	21.0	46.0

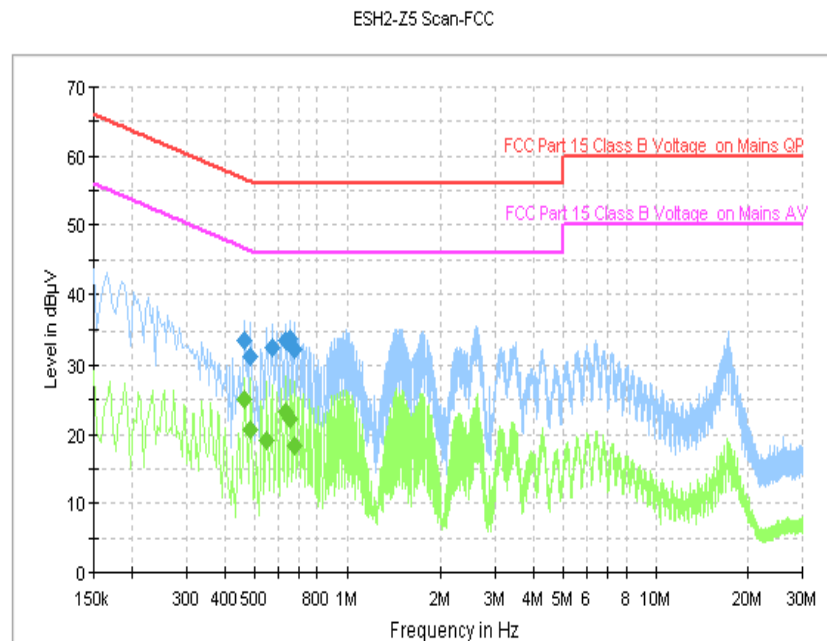


Fig.28 AC Power line Conducted Emission (Idle, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.466000	33.6	GND	L1	9.8	23.0	56.6
0.486000	31.2	GND	L1	9.8	25.0	56.2
0.570000	32.5	GND	L1	9.8	23.5	56.0
0.634000	33.6	GND	L1	9.8	22.4	56.0
0.654000	33.8	GND	L1	9.8	22.2	56.0
0.674000	32.2	GND	L1	9.8	23.8	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.466000	25.0	GND	L1	9.8	21.5	46.6
0.486000	20.7	GND	L1	9.8	25.5	46.2
0.550000	19.0	GND	L1	9.8	27.0	46.0
0.634000	23.3	GND	L1	9.8	22.7	46.0
0.654000	22.1	GND	L1	9.8	23.9	46.0
0.674000	18.3	GND	L1	9.8	27.7	46.0

ANNEX C: Persons involved in this testing

Test Name	Tester
Transmitter Spurious Emission - Radiated	An Ran, Tang Weisheng
AC Powerline Conducted Emission	An Ran, Tang Weisheng

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