



FCC PART 15C TEST REPORT No.I16N01168-BLE

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:

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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
Address: Coolpad Information Harbor, 2nd Mengxi Road, Hi-Tech Industrial
Park(North), Nanshan district, Shenzhen, P.R.C
City: Shenzhen
Postal Code: /
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2.2. Manufacturer Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address: Coolpad Information Harbor, 2nd Mengxi Road, Hi-Tech Industrial
Park(North), Nanshan district, Shenzhen, P.R.C
City: Shenzhen
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
Frequency Band	2402MHz~2480MHz
Type of Modulation	GFSK
Number of Channels	40
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.	Wireless Communication Tester	CMW270	100540	Rohde & Schwarz	2017-04-13	1 year

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren.

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 from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic.

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

Measurement Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	1 GHz ~18 GHz	Fig.1	P
	19	9kHz~30MHz	Fig.2	P
		30MHz~1GHz	Fig.3	P
		1 GHz ~18 GHz	Fig.4	P
		18 GHz~ 26.5 GHz	Fig.5	P
	39	1 GHz ~18 GHz	Fig.6	P
	Power(CH0)	2.38 GHz ~ 2.45 GHz	Fig.7	P
	Power(CH78)	2.45 GHz ~ 2.5 GHz	Fig.8	P

GFSK CH0 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14522.000000	56.0	H	11.8	18.0	74.0
15169.000000	56.8	V	12.1	17.2	74.0
15774.500000	57.7	V	12.8	16.3	74.0
16313.000000	58.5	H	13.3	15.5	74.0
16741.500000	59.8	H	13.9	14.2	74.0
17301.500000	58.7	H	13.9	15.3	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14533.500000	44.2	H	11.9	9.8	54.0
15152.000000	45.2	V	12.1	8.8	54.0
15745.000000	46.5	V	12.8	7.5	54.0
16220.000000	46.6	H	13.1	7.4	54.0
16746.500000	47.2	H	13.9	6.8	54.0
17358.000000	46.7	V	14.0	7.3	54.0

GFSK CH19 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14546.000000	55.7	V	11.9	18.3	74.0
14759.500000	56.4	H	11.9	17.6	74.0
15678.500000	59.5	V	12.6	14.5	74.0
16245.500000	58.8	V	13.2	15.2	74.0
16793.500000	59.7	H	13.9	14.3	74.0
17281.000000	59.2	H	13.9	14.8	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14141.000000	43.7	V	11.2	10.3	54.0
15180.500000	44.9	H	12.2	9.1	54.0
15683.500000	46.4	V	12.6	7.6	54.0
16197.000000	47.0	H	13.1	7.0	54.0
16778.500000	47.4	V	13.9	6.6	54.0
17309.000000	47.0	V	13.9	7.0	54.0

GFSK CH39 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14483.000000	56.1	V	11.8	17.9	74.0
15119.500000	56.7	H	12.1	17.3	74.0
15680.000000	58.3	V	12.6	15.7	74.0
16297.000000	58.1	V	13.3	15.9	74.0
16634.000000	58.4	H	13.8	15.6	74.0
17313.500000	58.7	V	13.9	15.3	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14541.500000	44.3	H	11.9	9.7	54.0
15159.000000	45.2	H	12.1	8.8	54.0
15682.000000	46.3	V	12.6	7.7	54.0
16222.500000	46.7	H	13.1	7.3	54.0
16785.500000	47.0	H	13.9	7.0	54.0
17284.000000	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:

BT (Quasi-peak Limit)-AE1- Traffic

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.9	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.

BT (Average Limit)-AE1-Traffic

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.9	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.

BT (Quasi-peak Limit)-AE1-idle

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	Fig.66 to 56	Fig.10	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.

BT (Average Limit)-AE1-idle

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.10	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:

BT (Quasi-peak Limit)-AE1- Traffic

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.11	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.

BT (Average Limit)-AE1-Traffic

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.11	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.

BT (Quasi-peak Limit)-AE1-idle

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	Fig.67 to 56	Fig.12	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.

BT (Average Limit)-AE1-idle

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.12	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.

Note: The measurement results include the L1 and N measurements.

See ANNEX C for test graphs.

Conclusion: Pass

ANNEX B: TEST FIGURE LIST

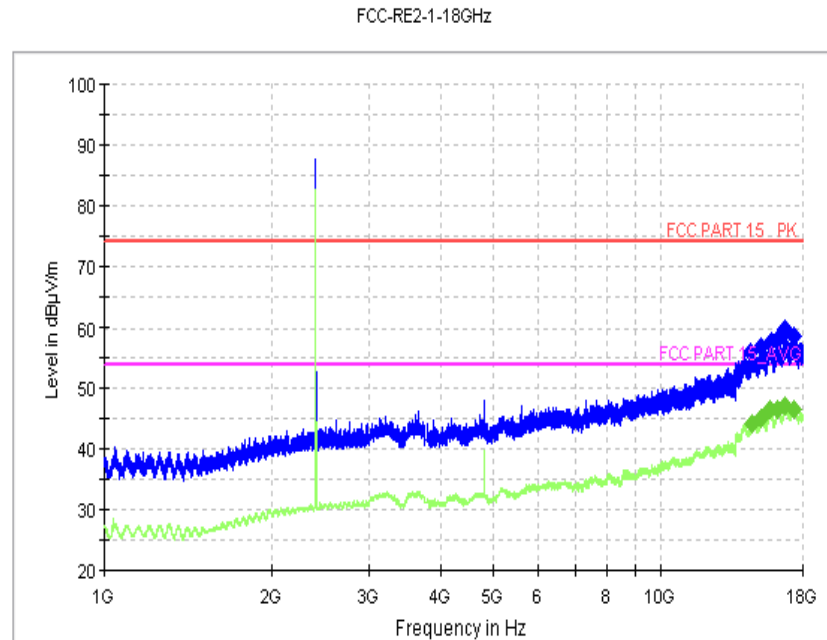


Fig.1 Radiated Spurious Emission (Ch0, 1 GHz-18 GHz)

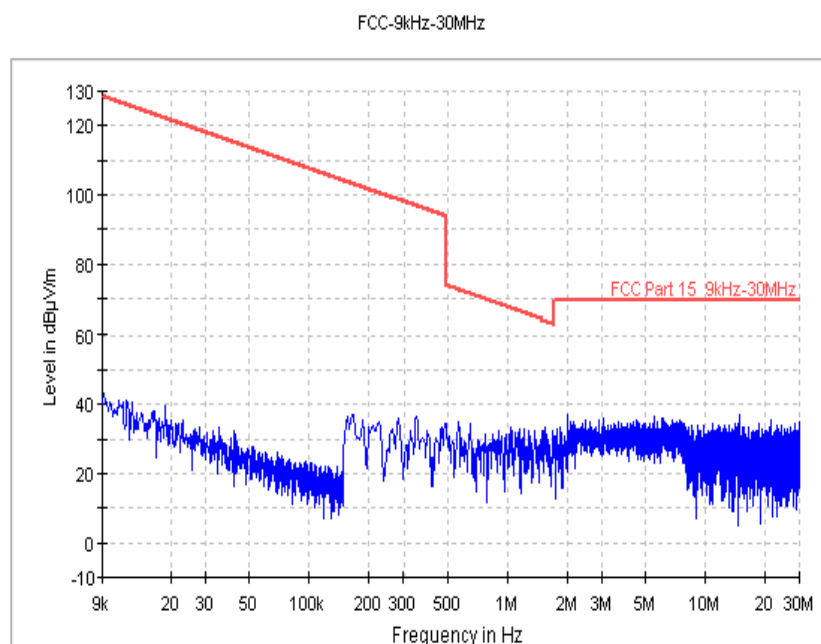


Fig.2 Radiated Spurious Emission (Ch19, 9 kHz ~30MHz)

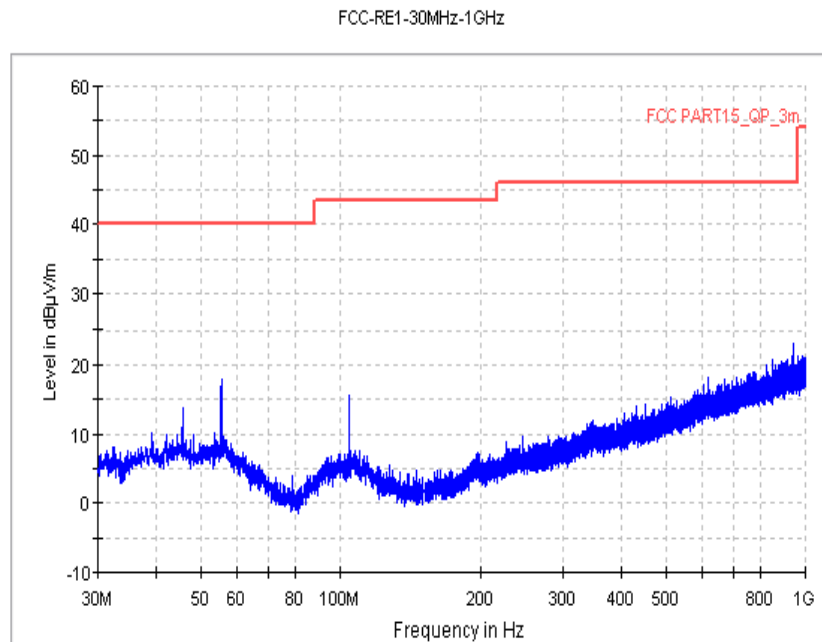


Fig.3 Radiated Spurious Emission (Ch19, 30 MHz ~1 GHz,AE1)

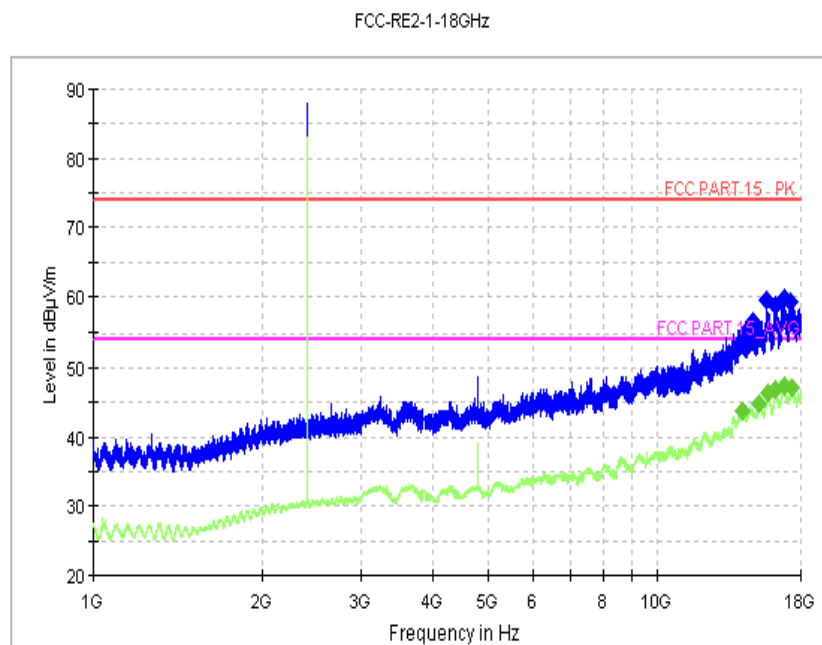


Fig.4 Radiated Spurious Emission (Ch19, 1 GHz-18 GHz)

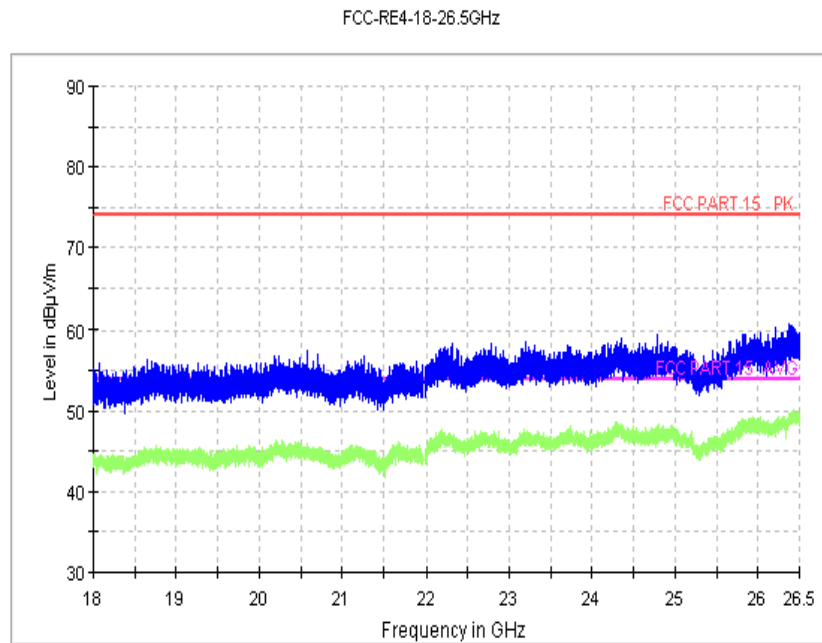


Fig.5 Radiated Spurious Emission (Ch19, 18 GHz-26.5 GHz)

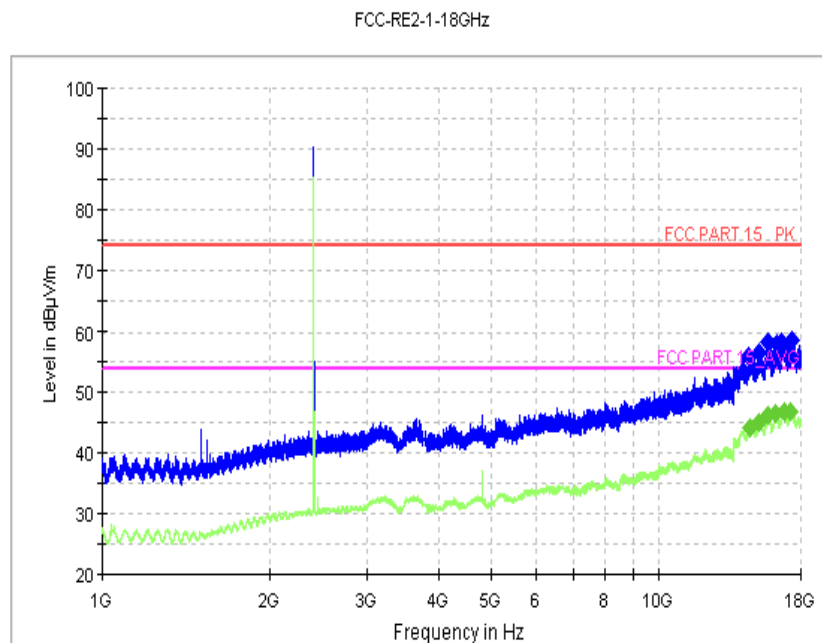


Fig.6 Radiated Spurious Emission (Ch39, 1 GHz-18 GHz)

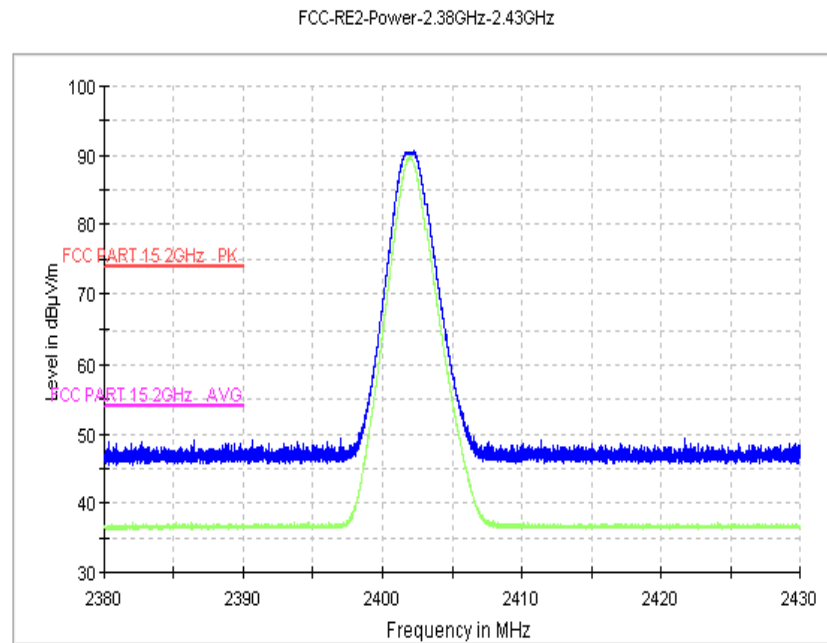


Fig.7 Radiated Emission Power (GFSK, Ch0, 2380GHz~2450GHz)

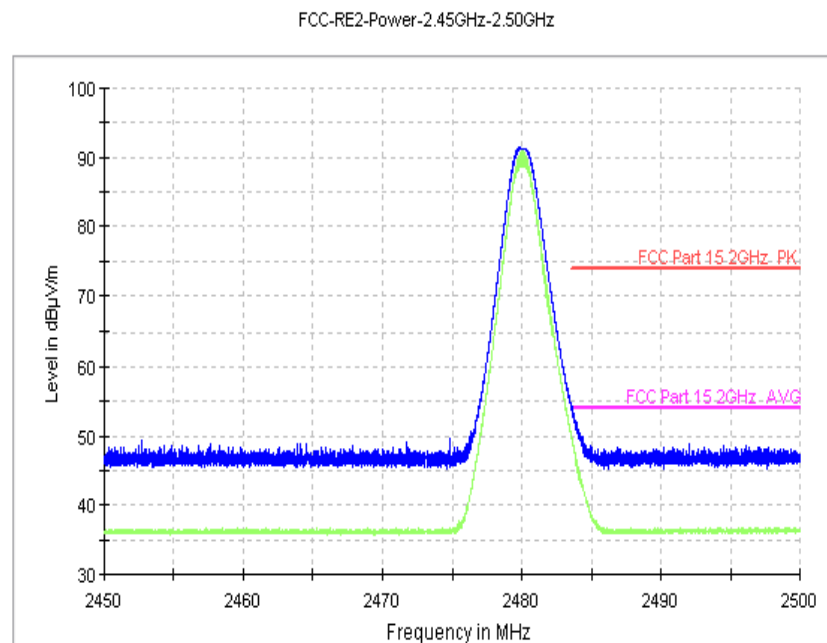


Fig.8 Radiated Emission Power (GFSK, Ch39, 2450GHz~2500GHz)

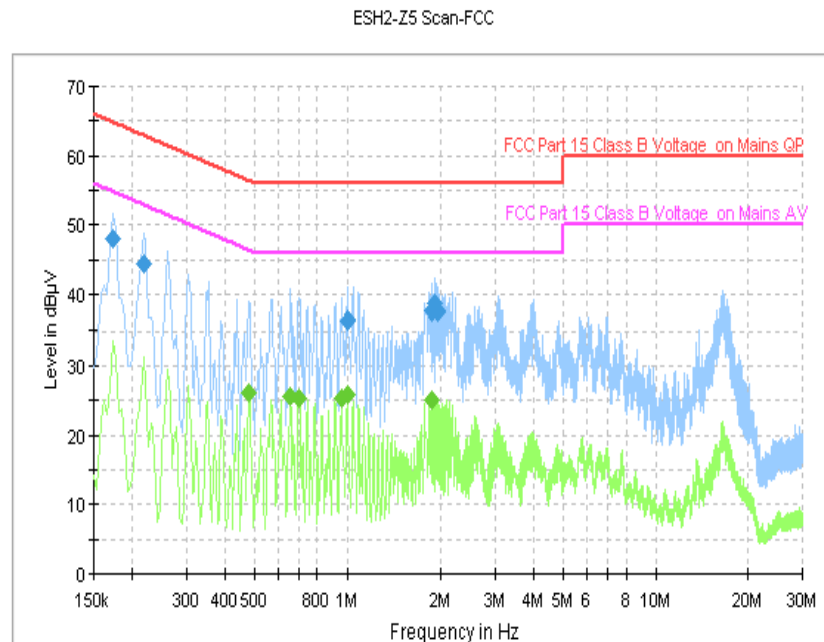


Fig.9 AC Power line Conducted Emission (Traffic, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.174000	48.1	GND	L1	9.8	16.7	64.8
0.218000	44.5	GND	L1	9.8	18.4	62.9
1.002000	36.5	GND	L1	9.8	19.5	56.0
1.878000	37.7	GND	L1	9.8	18.3	56.0
1.918000	38.6	GND	L1	9.8	17.4	56.0
1.962000	37.7	GND	L1	9.8	18.3	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.478000	26.2	GND	L1	9.8	20.2	46.4
0.654000	25.6	GND	L1	9.8	20.4	46.0
0.698000	25.4	GND	L1	9.8	20.6	46.0
0.958000	25.3	GND	L1	9.8	20.7	46.0
1.002000	25.8	GND	L1	9.8	20.2	46.0
1.874000	25.0	GND	L1	9.8	21.0	46.0

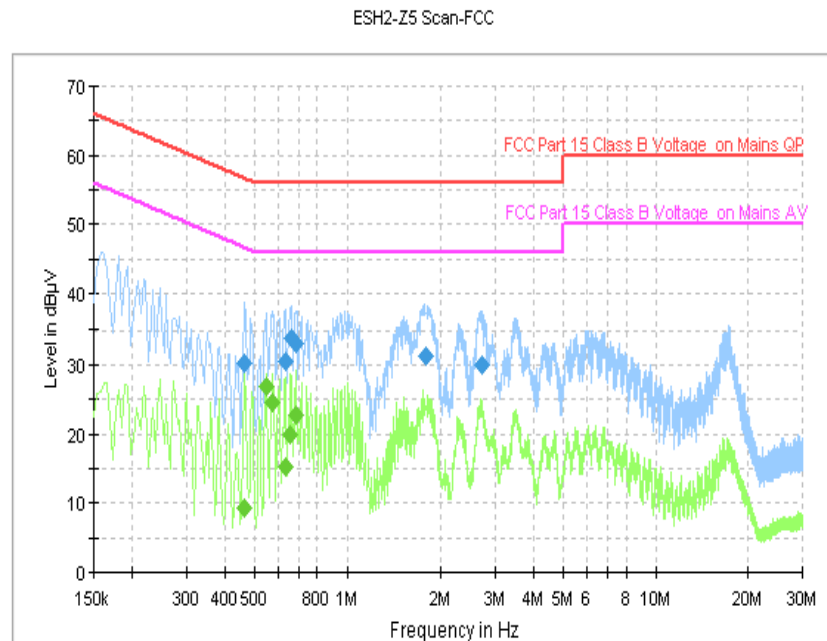


Fig.10 AC Power line Conducted Emission (Idle, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.466000	30.3	GND	L1	9.8	26.3	56.6
0.630000	30.5	GND	L1	9.8	25.5	56.0
0.658000	33.9	GND	L1	9.8	22.1	56.0
0.682000	33.0	GND	L1	9.8	23.0	56.0
1.782000	31.3	GND	L1	9.8	24.7	56.0
2.714000	29.9	GND	L1	9.8	26.1	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.466000	9.3	GND	L1	9.8	37.2	46.6
0.546000	26.8	GND	L1	9.8	19.2	46.0
0.574000	24.6	GND	L1	9.8	21.4	46.0
0.630000	15.2	GND	L1	9.8	30.8	46.0
0.654000	20.0	GND	L1	9.8	26.0	46.0
0.682000	22.6	GND	L1	9.8	23.4	46.0

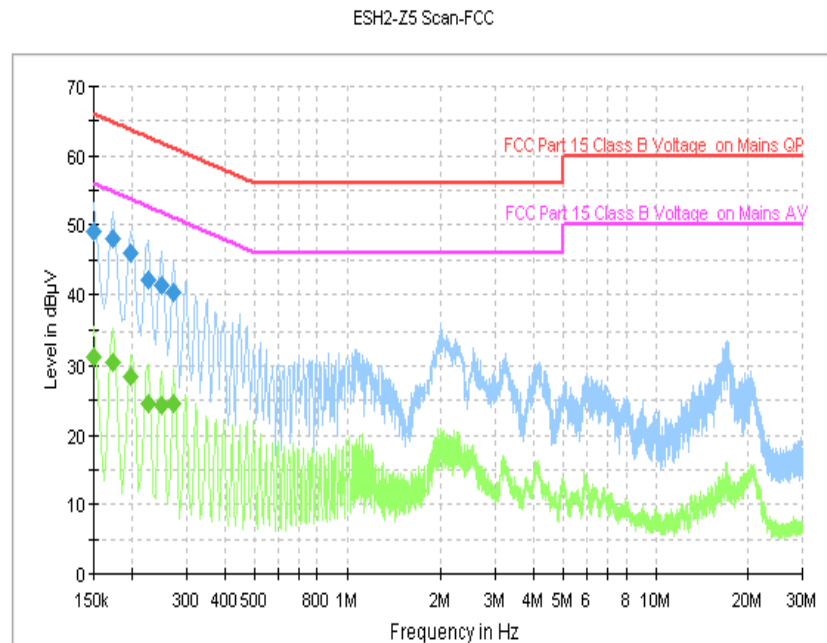


Fig.11 AC Power line Conducted Emission (Traffic, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	49.0	GND	N	9.6	17.0	66.0
0.174000	48.0	GND	L1	9.8	16.8	64.8
0.198000	46.0	GND	N	9.6	17.7	63.7
0.226000	42.2	GND	L1	9.8	20.4	62.6
0.250000	41.4	GND	L1	9.8	20.4	61.8
0.274000	40.2	GND	L1	9.8	20.8	61.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	31.3	GND	N	9.6	24.7	56.0
0.174000	30.5	GND	L1	9.8	24.3	54.8
0.198000	28.5	GND	L1	9.8	25.2	53.7
0.226000	24.6	GND	L1	9.8	27.9	52.6
0.250000	24.4	GND	L1	9.8	27.4	51.8
0.274000	24.5	GND	L1	9.8	26.5	51.0

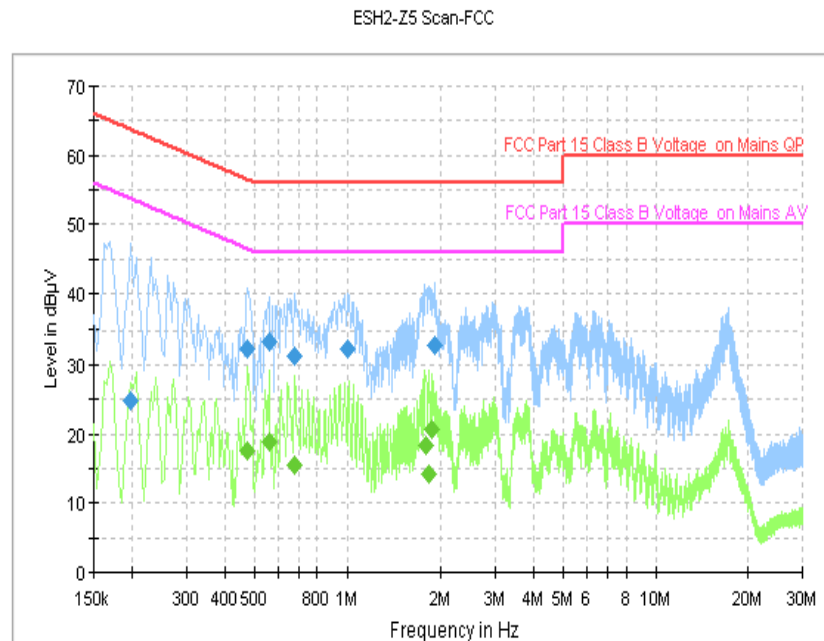


Fig.12 AC Power line Conducted Emission (Idle, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.198000	24.8	GND	N	9.6	38.9	63.7
0.474000	32.3	GND	L1	9.8	24.2	56.4
0.558000	33.2	GND	L1	9.8	22.8	56.0
0.678000	31.3	GND	L1	9.8	24.7	56.0
1.010000	32.4	GND	L1	9.8	23.6	56.0
1.906000	32.8	GND	L1	9.8	23.2	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBuV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.474000	17.5	GND	L1	9.8	28.9	46.4
0.558000	18.8	GND	L1	9.8	27.2	46.0
0.678000	15.4	GND	L1	9.8	30.6	46.0
1.794000	18.4	GND	L1	9.8	27.6	46.0
1.826000	14.2	GND	L1	9.8	31.8	46.0
1.862000	20.6	GND	L1	9.8	25.4	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*****