



TEST REPORT

No. B22N02534-WLAN 2.4GHz

for

TCL Communication Ltd.

GSM/UMTS/LTE /NR Mobile phone

Model Name: T609DL

with

Hardware Version: 04

Software Version: JSS8

FCC ID: 2ACCJH168

Issued Date: 2022-12-15

Designation Number: CN1210

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 SAICT.

Test Laboratory:

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No. B22N02534-WLAN 2.4GHz

REPORT HISTORY

Report Number	Revision	Description	Issue Date
B22N02534-WLAN 2.4GHz	Rev.0	1st edition	2022-12-15

Note: the latest revision of the test report supersedes all previous versions.

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1. Summary of Test Report

1.1. Test Items

Description	GSM/UMTS/LTE /NR Mobile phone
Model Name	T609DL
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part15-2021; ANSI C63.10-2013.

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: EMC Laboratory, Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date: 2022-12-06
Testing End Date: 2022-12-14

1.6. Signature

Huang Kaiyang
(Prepared this test report)

Huang Yuqing
(Reviewed this test report)

Cao Junfei
(Approved this test report)



2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

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Contact Person Annie Jiang
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Fax: +86 755 3661 2000-81722



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

3.1. About EUT

Description	GSM/UMTS/LTE /NR Mobile phone
Model Name	T609DL
RF Protocol	IEEE 802.11b/g/n-HT20
Operating Frequency	ISM 2412MHz~2462MHz
Type of Modulation	DSSS/CCK/OFDM
Antenna Type	Integrated antenna
Power Supply	3.85V DC by Battery
FCC ID	2ACCJH168
Condition of EUT as received	No abnormality in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
UT03aa	016320000014344	04	JSS8	2022-12-05
UT05aa	016320000013742	04	JSS8	2022-12-05

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

UT05aa is used for radiation test, and UT03aa is used for AC Power line Conducted Emission test.

3.3. Internal Identification of AE used during the test

AE No.	Description	AE ID*
AE1	Battery	
AE2	Charger	
AE3	USB Cable	

AE1-1

Model	TLp048D7
S/N	CAC4850007C7
Manufacturer	VEKEN
Capacity	5000mAh
Nominal Voltage	3.85 V

AE2-1

Model	CBA0064BGTC5
Manufacturer	PUAN

AE2-2

Model	CBA0064BGTC1
Manufacturer	BYD

AE3-1

Model	CDA0000198C1
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Manufacturer	JUWEI
AE3-2	
Model	CDA0000198C2
Manufacturer	SHENGHUA
AE3-3	
Model	CDA0000201C2
Manufacturer	SHENGHUA
AE3-4	
Model	CDA0000202C1
Manufacturer	JUWEI

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

AE: ancillary equipment.

3.4. General Description

The Equipment under Test (EUT) is a model of GSM/UMTS/LTE /NR Mobile phone with integrated antenna and battery.

It consists of normal options: Battery, Charger, and USB Cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.



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	2021
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

No	Test cases	Sub-clause of Part 15C	Verdict
1	Radiated Emission	15.247, 15.205, 15.209	P
2	AC Power line Conducted	15.207	P

See **ANNEX A** for details.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacture as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

6. Measuring Apparatus Utilized

Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2023-11-23	1 year
2	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2025-04-17	3 years
4	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years
5	Spectrum Analyzer	FSV40	101192	Rohde & Schwarz	2023-01-12	1 year
6	Loop Antenna	HLA6120	35779	TESEQ	2025-05-10	3 years
7	Horn Antenna	QSH-SL-1 8-26-S-20	17013	Q-par	2023-01-06	3 years
8	Test Receiver	ESCI	100702	Rohde & Schwarz	2023-01-12	1 year
9	LISN	ENV216	102067	Rohde & Schwarz	2023-07-14	1 year

Test software

No.	Equipment	Manufacturer	Version
1	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal. The EUT was programmed to be in continuously transmitting mode.

7. Laboratory Environment

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω

Anechoic chamber (FACT3-2.0) did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



8. Measurement Uncertainty

Test Name	Uncertainty ($k=2$)	
Radiated Emission	$9\text{kHz} \leq f < 30\text{MHz}$	1.79dB
	$30\text{MHz} \leq f < 1\text{GHz}$	4.86dB
	$1\text{GHz} \leq f < 18\text{GHz}$	4.82dB
	$18\text{GHz} \leq f \leq 40\text{GHz}$	2.90dB
AC Power line Conducted Emission	$150\text{kHz} \leq f \leq 30\text{MHz}$	2.62dB

ANNEX A: Detailed Test Results

Test Configuration

The measurement is made according to ANSI C63.10.

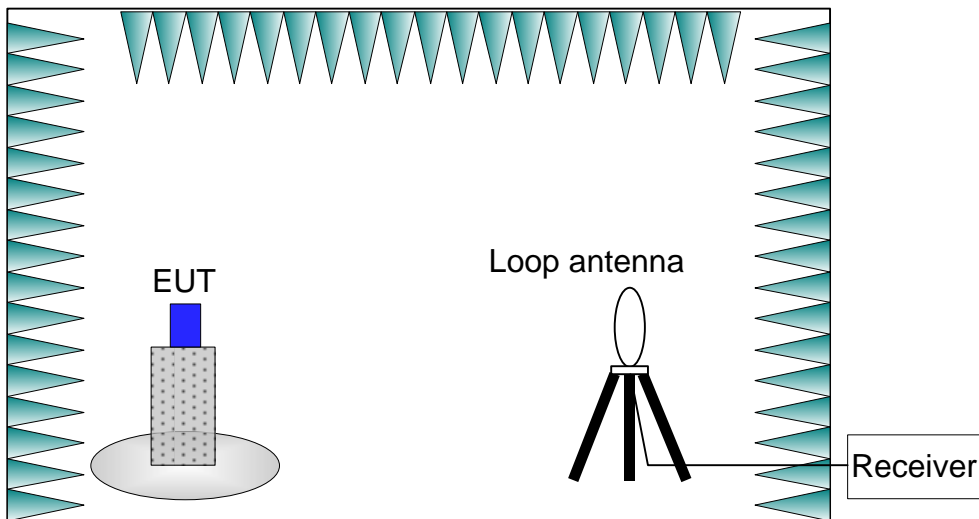
1) Radiated Measurements

Test setup:

9kHz-30MHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below.

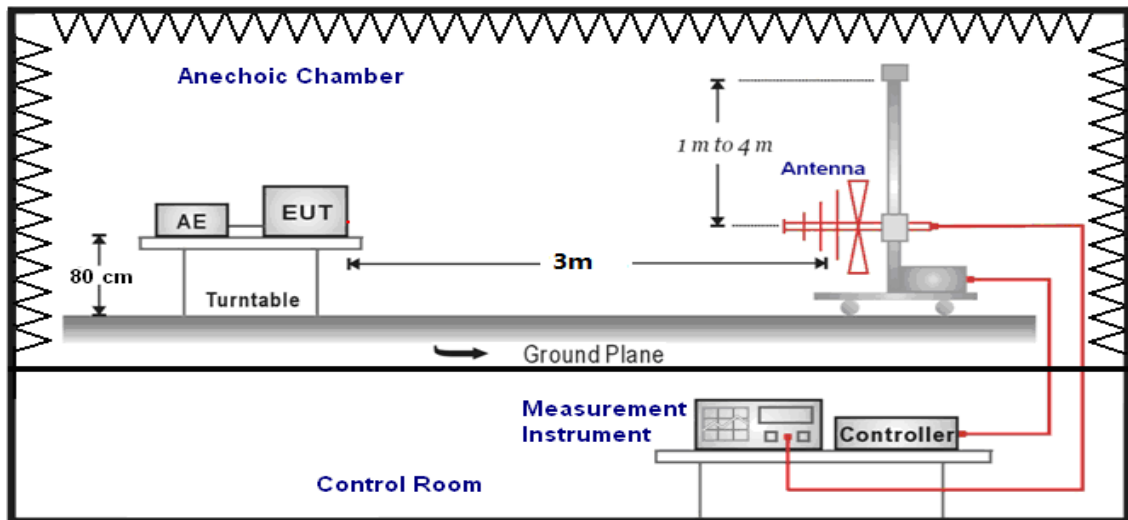
Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



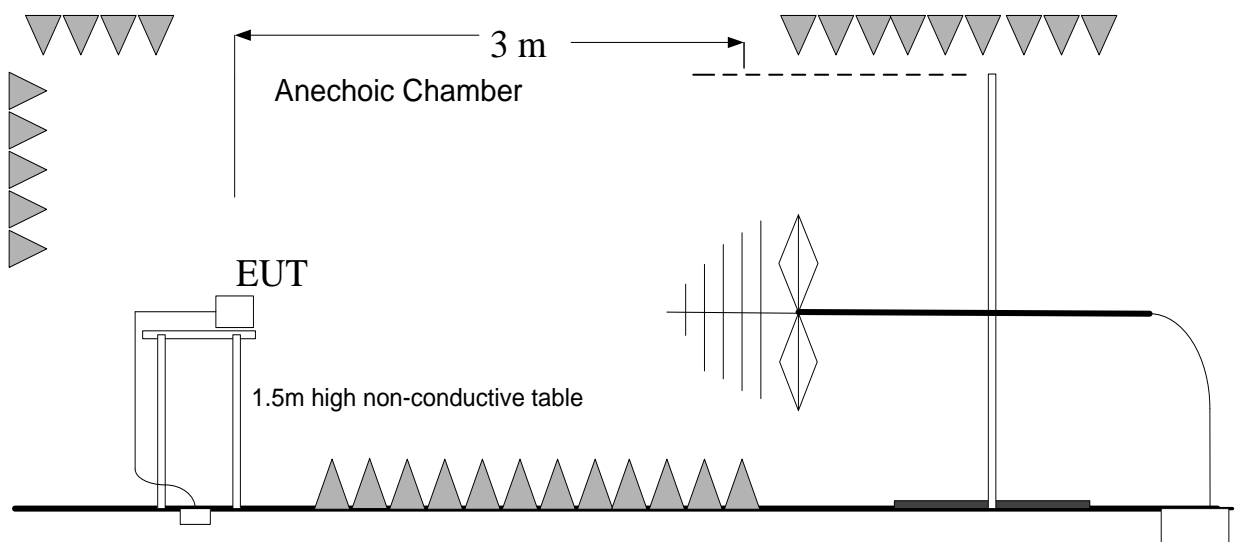
30MHz-26.5GHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

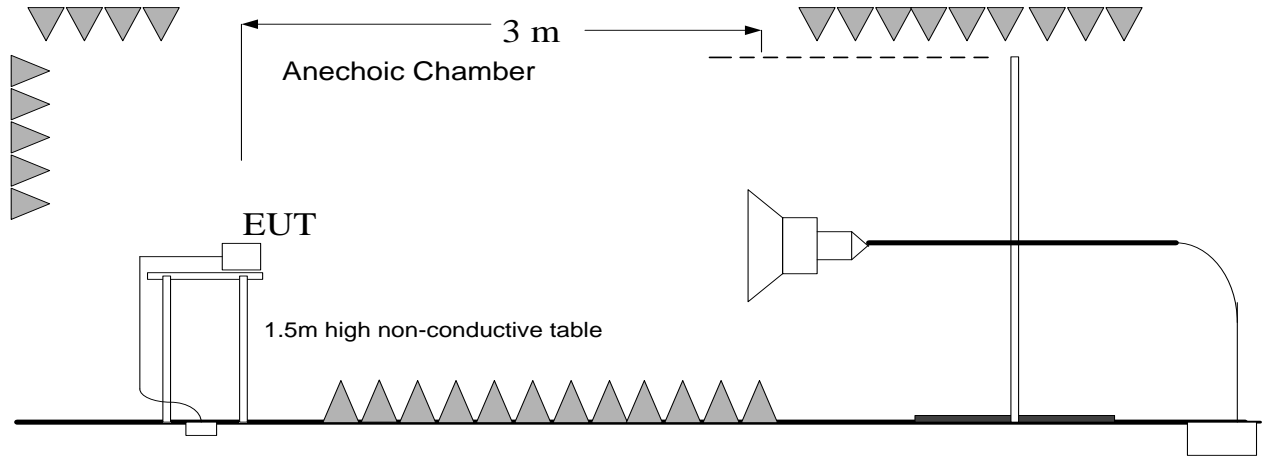
30MHz-1GHz:



1GHz-3GHz:

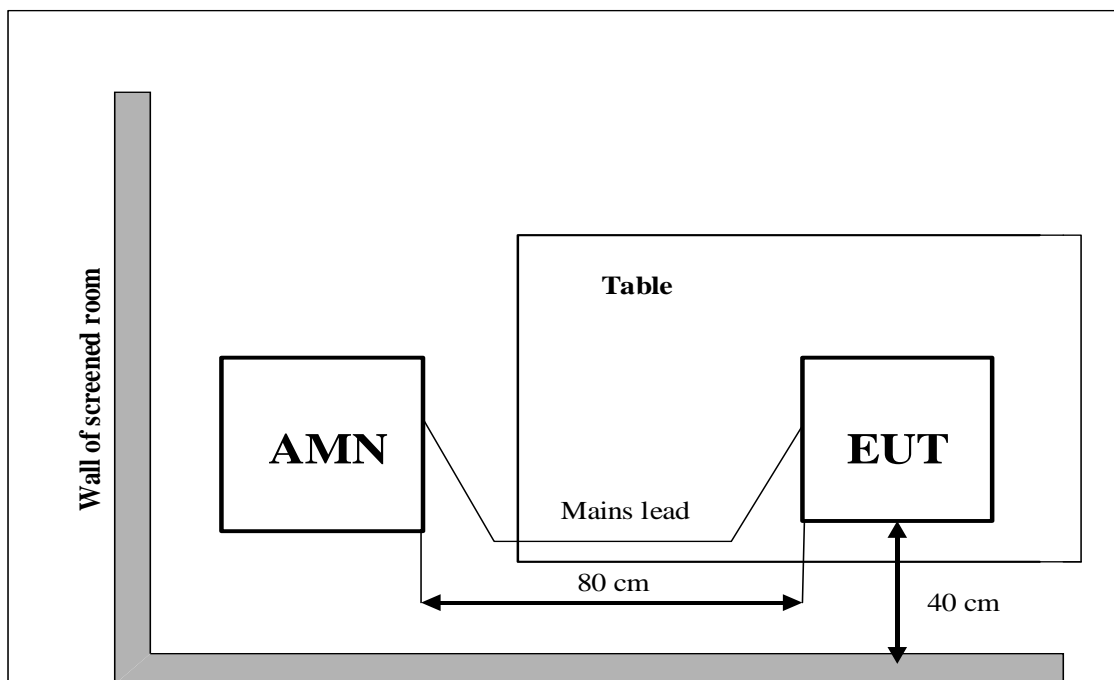


3GHz-26.5GHz:



2) AC Power line Conducted Emission Measurement

For WLAN, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.



A.1 Radiated Emission

Method of Measurement: See ANSI C63.10-clause 11.11&11.12.

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CFR Part 15.247, 15.205, 15.209	20dBm 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(μ 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. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Measurement Results:

Mode	Frequency (MHz)	Frequency Range	Test Results	Conclusion
802.11b	2412(CH1)	1 GHz ~18 GHz	Fig.1	P
	2437(CH6)	1 GHz ~18 GHz	Fig.2	P
	2462(CH11)	1 GHz ~18 GHz	Fig.3	P
	Restricted Band (CH1)	2.38 GHz ~ 2.45 GHz	Fig.4	P
	Restricted Band (CH11)	2.45 GHz ~ 2.5 GHz	Fig.5	P
802.11g	2412(CH1)	1 GHz ~18 GHz	Fig.6	P
	2437(CH6)	1 GHz ~18 GHz	Fig.7	P
	2462(CH11)	1 GHz ~18 GHz	Fig.8	P
	Restricted Band (CH1)	2.38 GHz ~ 2.45 GHz	Fig.9	P
	Restricted Band (CH11)	2.45 GHz ~ 2.5 GHz	Fig.10	P
802.11n- HT20	2412(CH1)	1 GHz ~18 GHz	Fig.11	P
	2437(CH6)	1 GHz ~18 GHz	Fig.12	P
	2462(CH11)	1 GHz ~18 GHz	Fig.13	P
	Restricted Band (CH1)	2.38 GHz ~ 2.45 GHz	Fig.14	P
	Restricted Band (CH11)	2.45 GHz ~ 2.5 GHz	Fig.15	P
802.11n- HT40	2412(CH1)	1 GHz ~18 GHz	Fig.16	P
	2437(CH3)	1 GHz ~18 GHz	Fig.17	P
	2462(CH9)	1 GHz ~18 GHz	Fig.18	P
	Restricted Band (CH3)	2.38 GHz ~ 2.45 GHz	Fig.19	P
	Restricted Band (CH9)	2.45 GHz ~ 2.5 GHz	Fig.20	P
/	All Channels	9 kHz ~30 MHz	Fig.21	P
		30 MHz ~1 GHz	Fig.22	P
		18 GHz ~26.5 GHz	Fig.23	P

Worst-Case Result:
802.11b CH11 (1-18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2909.600000	47.71	74.00	26.29	V	10.54
3916.800000	35.79	74.00	38.21	V	-12.40
4923.900000	46.53	74.00	27.47	V	-9.20
9848.000000	44.50	74.00	29.50	H	-0.49
14598.400000	51.31	74.00	22.69	V	6.54
17987.600000	55.63	74.00	18.37	V	14.07

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2909.600000	34.83	54.00	19.17	V	10.54
3916.800000	23.49	54.00	30.51	V	-12.40
4923.900000	43.55	54.00	10.45	V	-9.20
9848.000000	38.50	54.00	15.50	H	-0.49
14598.400000	37.68	54.00	16.32	V	6.54
17987.600000	43.26	54.00	10.74	V	14.07

802.11g CH6 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2878.000000	47.75	74.00	26.25	H	10.61
3741.900000	35.56	74.00	38.44	H	-12.92
4873.800000	42.25	74.00	31.75	H	-9.48
9898.400000	45.76	74.00	28.24	V	-0.51
14644.400000	53.28	74.00	20.72	H	5.01
17989.600000	55.81	74.00	18.19	V	14.03

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2878.000000	34.87	54.00	19.13	H	10.61
3741.900000	21.99	54.00	32.01	H	-12.92
4873.800000	28.65	54.00	25.35	H	-9.48
9898.400000	32.19	54.00	21.81	V	-0.51
14644.400000	37.36	54.00	16.64	H	5.01
17989.600000	42.93	54.00	11.07	V	14.03

**802.11n-HT20 CH1 (1GHz-18GHz)**

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2972.000000	47.63	74.00	26.37	H	10.98
3693.300000	35.21	74.00	38.79	V	-13.45
4825.500000	41.40	74.00	32.60	V	-9.48
7309.600000	43.85	74.00	30.15	V	-1.64
14268.800000	50.49	74.00	23.51	H	6.72
17983.600000	55.80	74.00	18.20	V	14.15

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2972.000000	35.53	54.00	18.47	H	10.98
3693.300000	22.57	54.00	31.43	V	-13.45
4825.500000	29.50	54.00	24.50	V	-9.48
7309.600000	30.38	54.00	23.62	V	-1.64
14268.800000	38.36	54.00	15.64	H	6.72
17983.600000	43.60	54.00	10.40	V	14.15

802.11n-HT40 CH3 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2993.200000	47.10	74.00	26.90	V	10.96
4602.000000	37.05	74.00	36.95	H	-9.72
5891.100000	40.28	74.00	33.72	H	-7.09
10595.200000	45.78	74.00	28.22	V	1.47
16894.400000	50.91	74.00	23.09	H	6.49
17977.200000	54.76	74.00	19.24	H	14.28

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2993.200000	34.86	54.00	19.14	V	10.96
4602.000000	24.46	54.00	29.54	H	-9.72
5891.100000	26.44	54.00	27.56	H	-7.09
10595.200000	33.65	54.00	20.35	V	1.47
16894.400000	37.09	54.00	16.91	H	6.49
17977.200000	42.84	54.00	11.16	H	14.28

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and Antenna Factor, 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} +Cable Loss +Antenna Factor-Gain of the preamplifier.

See below for test graphs.

Conclusion: PASS

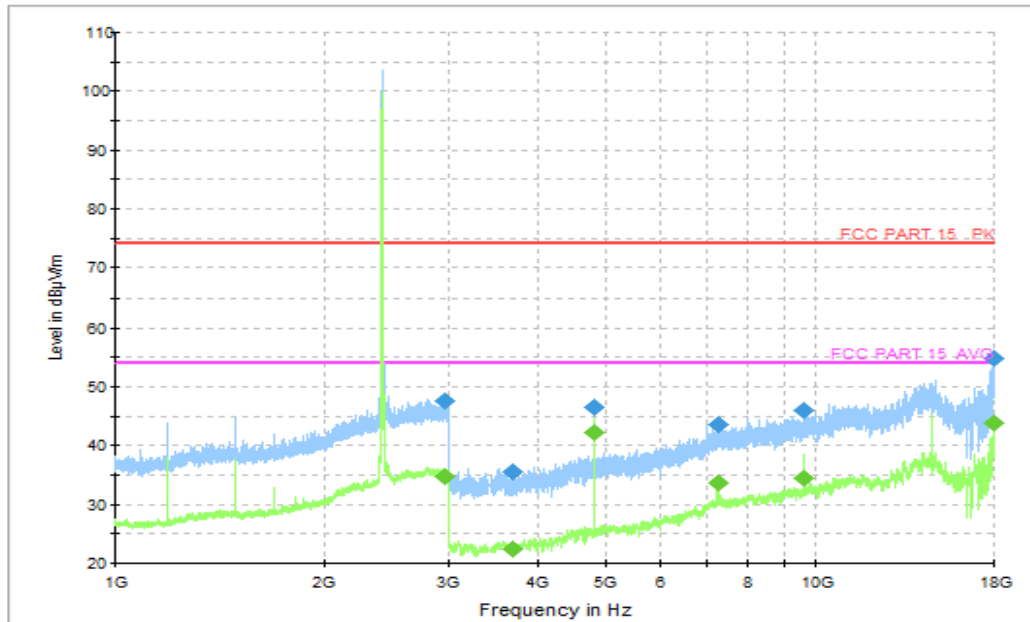


Fig.1 Radiated Spurious Emission (802.11b, CH1, 1GHz-18GHz)

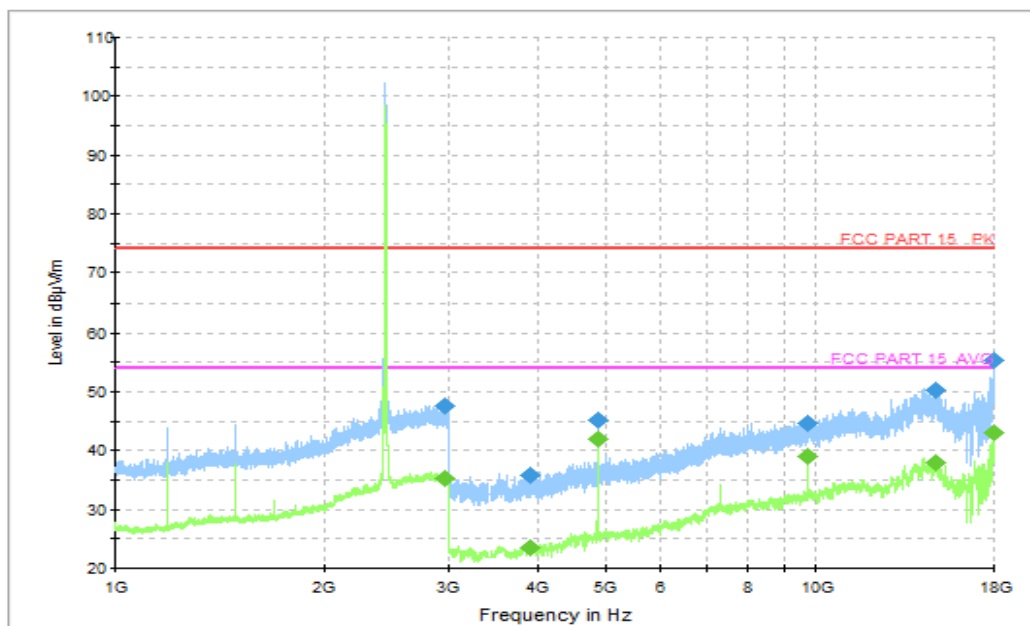


Fig.2 Radiated Spurious Emission (802.11b, CH6, 1GHz-18GHz)

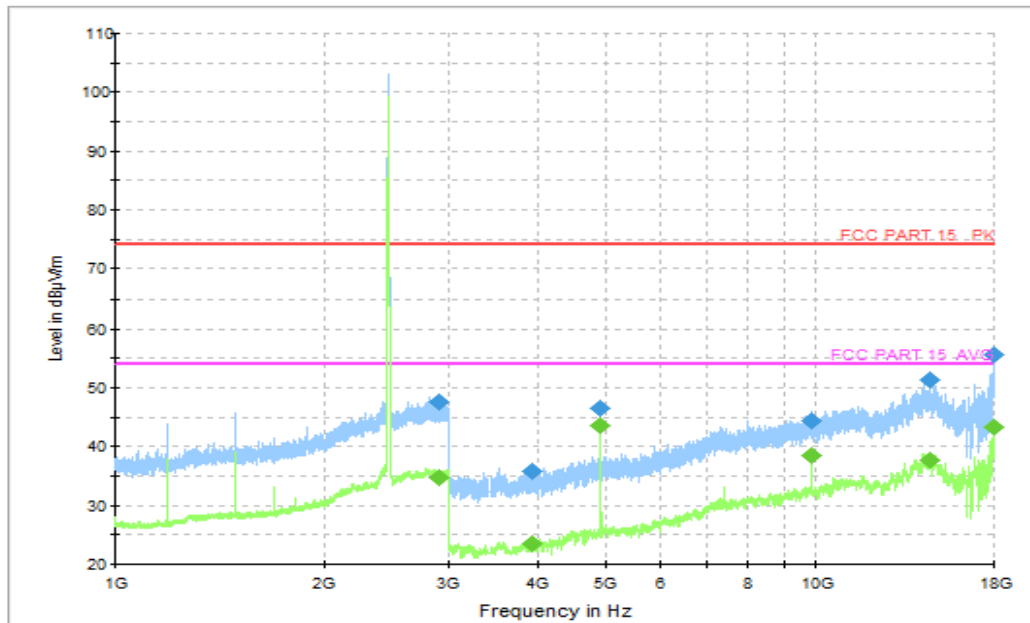


Fig.3 Radiated Spurious Emission (802.11b, CH11, 1GHz-18GHz)

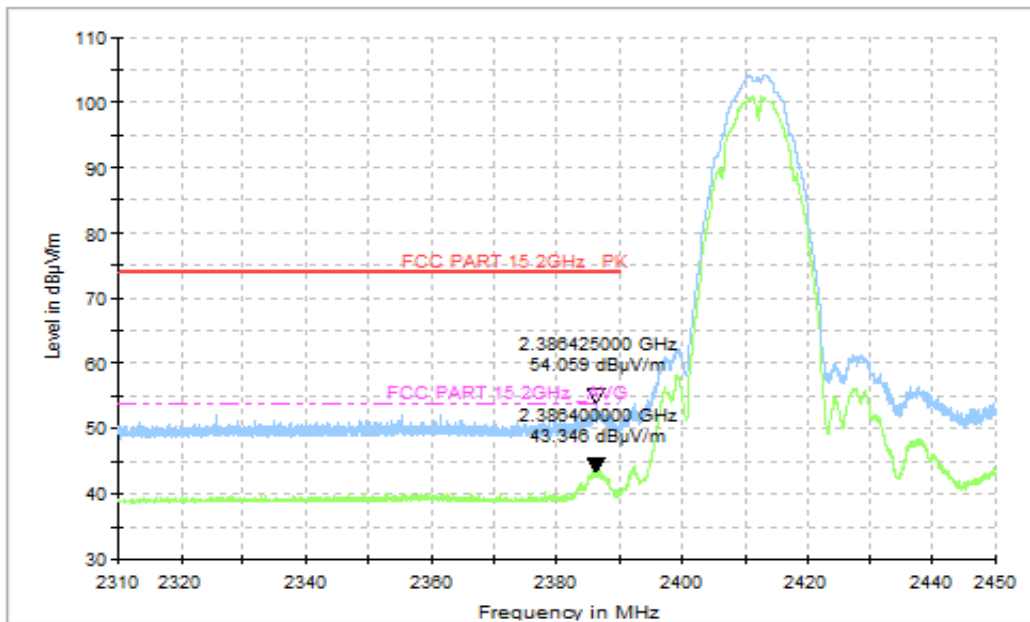


Fig.4 Radiated Restricted Band (802.11b, CH1, 2.38GHz~2.45GHz)

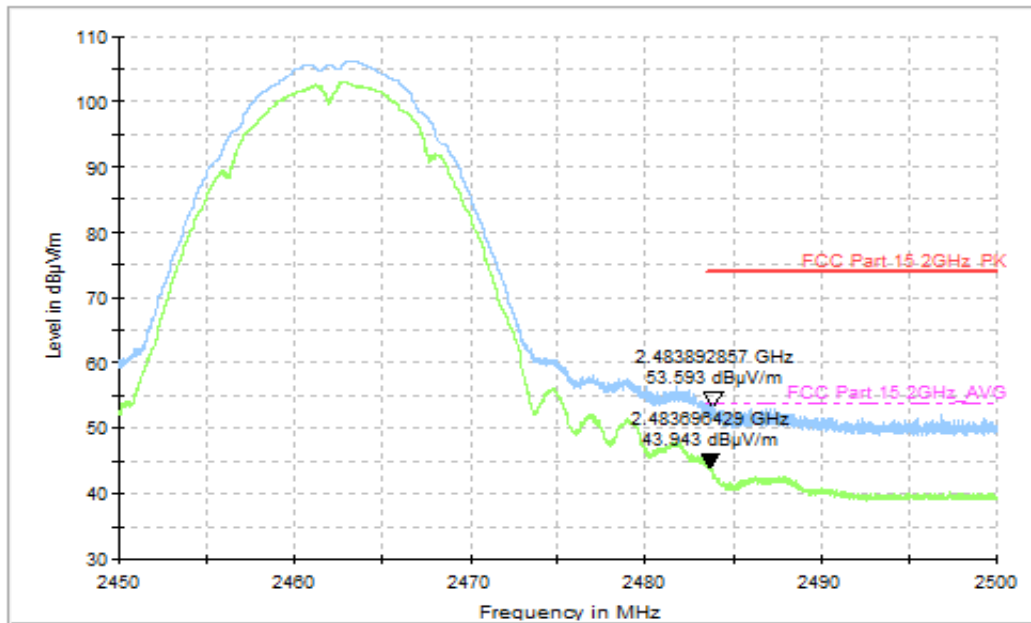


Fig.5 Radiated Restricted Band (802.11b, CH11, 2.45GHz~2.50GHz)

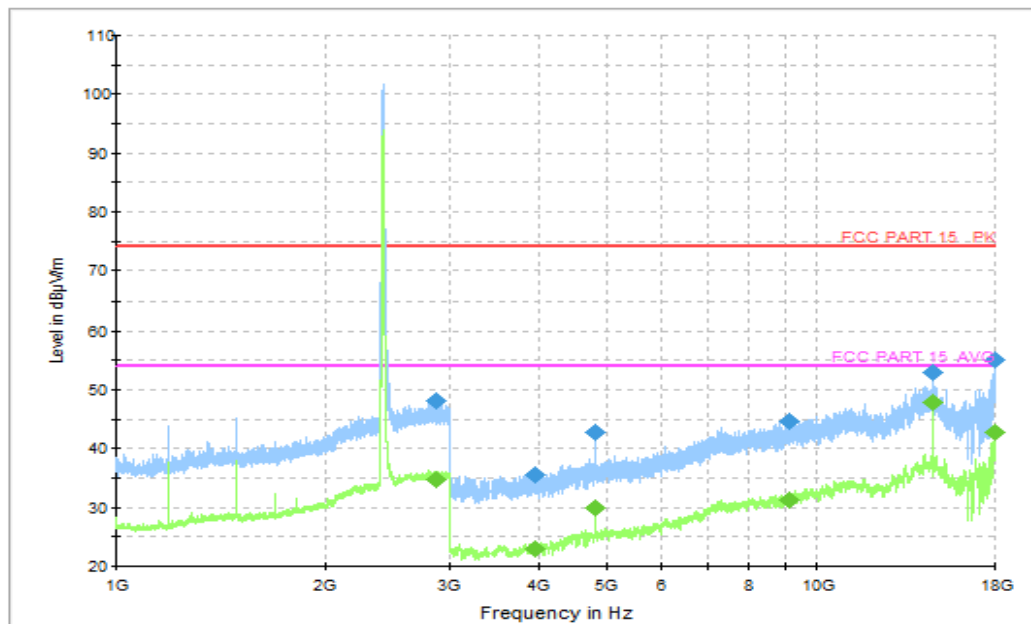


Fig.6 Radiated Spurious Emission (802.11g, CH1, 1GHz~18GHz)

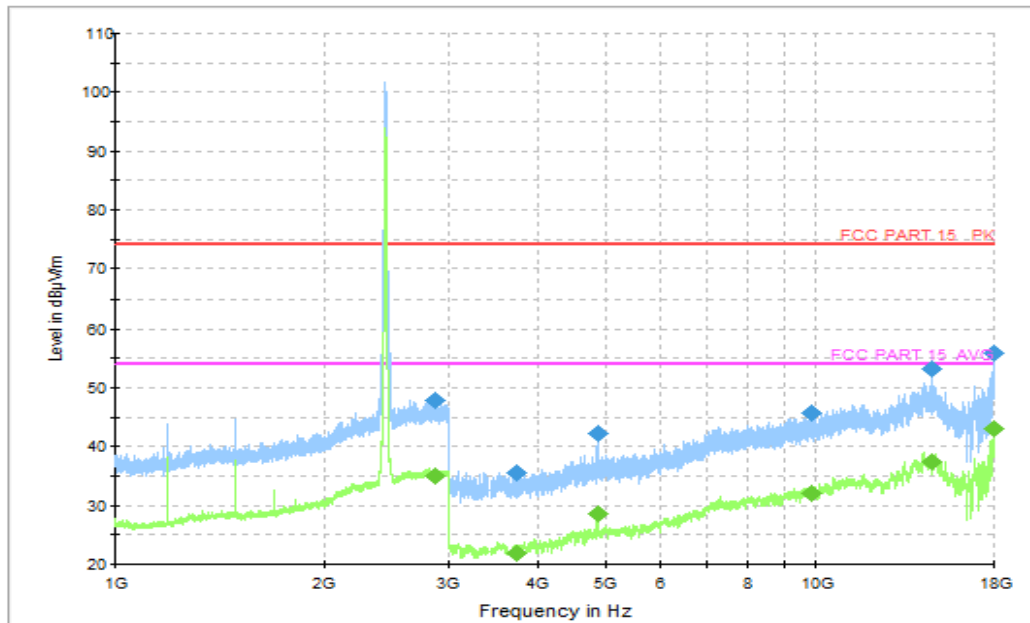


Fig.7 Radiated Spurious Emission (802.11g, CH6, 1GHz-18GHz)

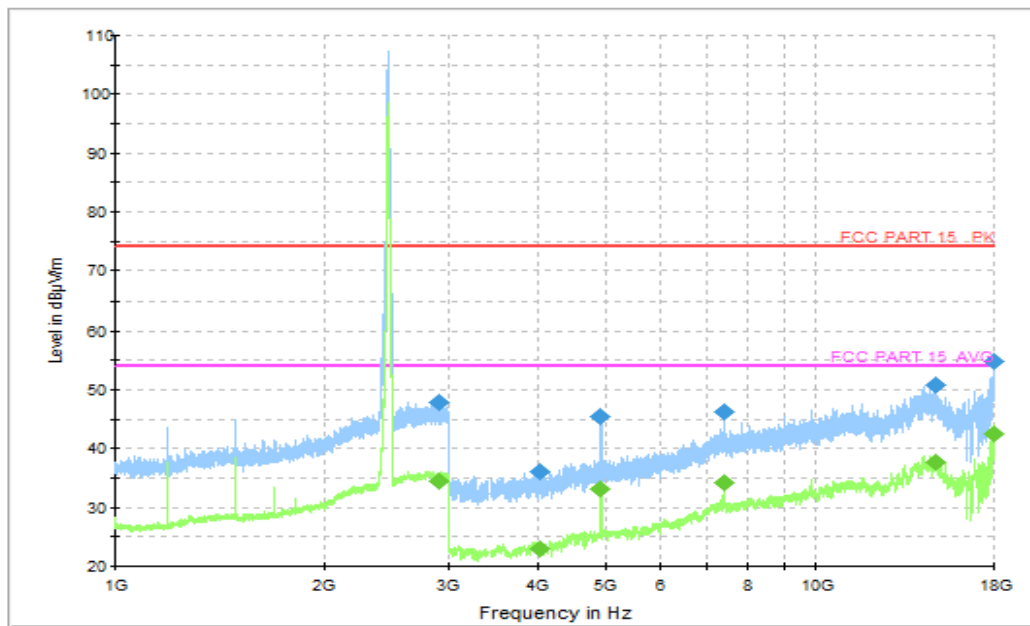


Fig.8 Radiated Spurious Emission (802.11g, CH11, 1GHz-18GHz)

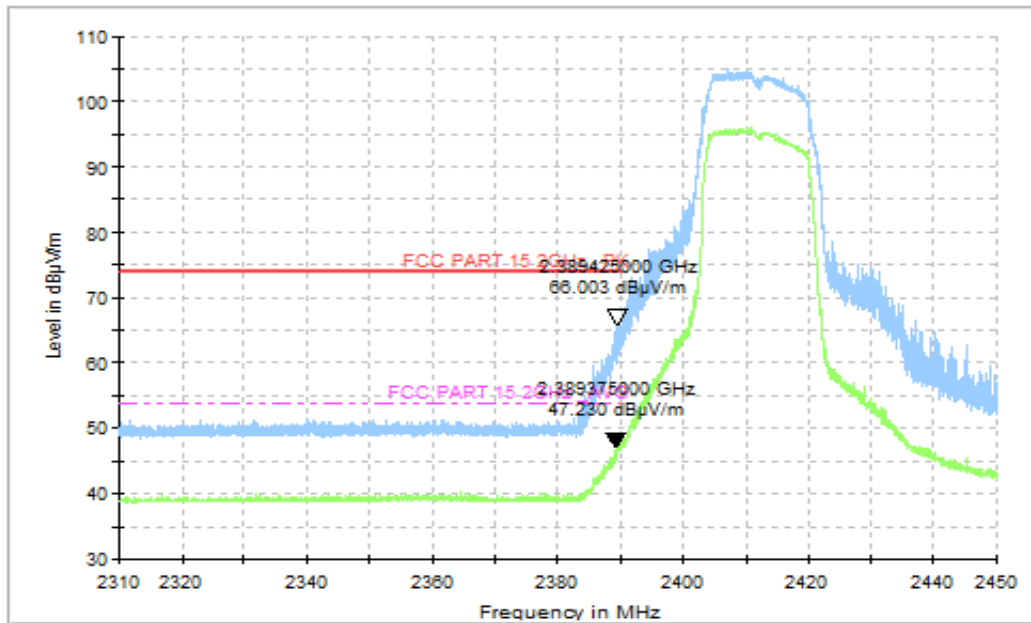


Fig.9 Radiated Restricted Band (802.11g, CH1, 2.38GHz~2.45GHz)

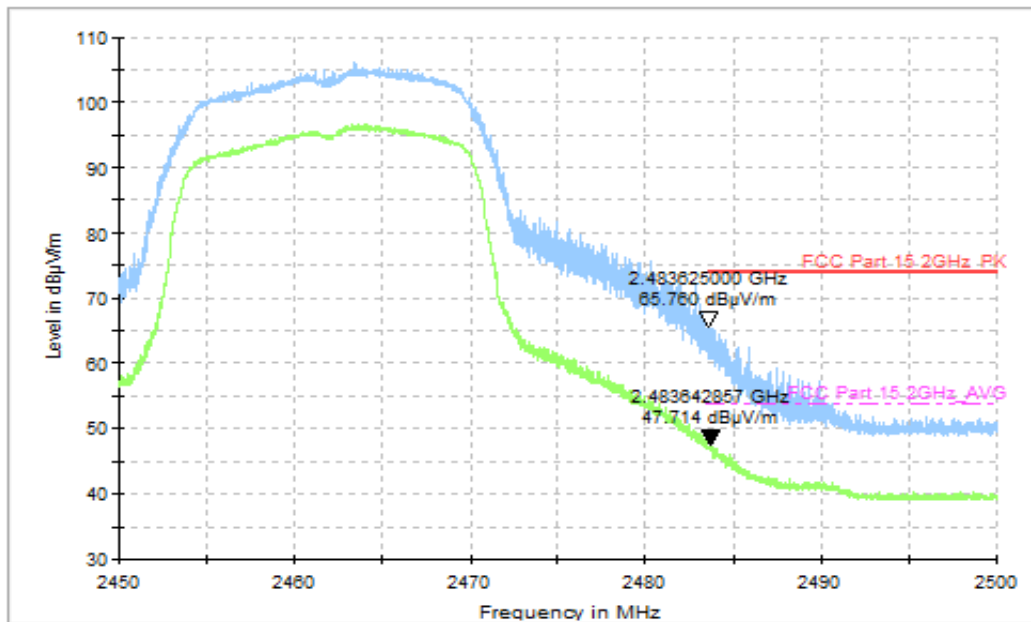


Fig.10 Radiated Restricted Band (802.11g, CH11, 2.45GHz~2.50GHz)

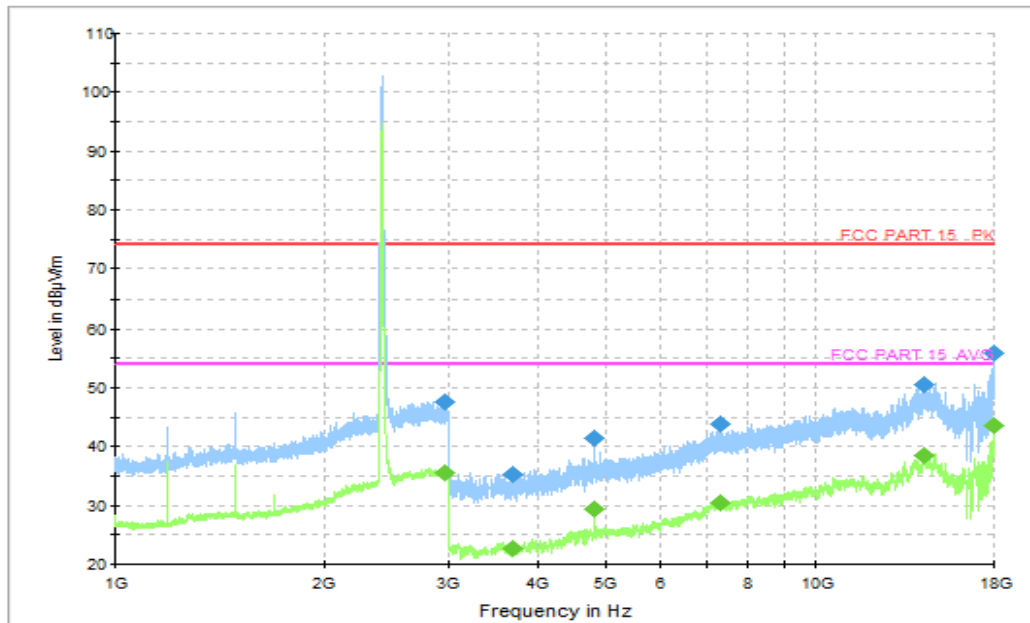


Fig.11 Radiated Spurious Emission (802.11n-HT20, CH1, 1GHz-18GHz)

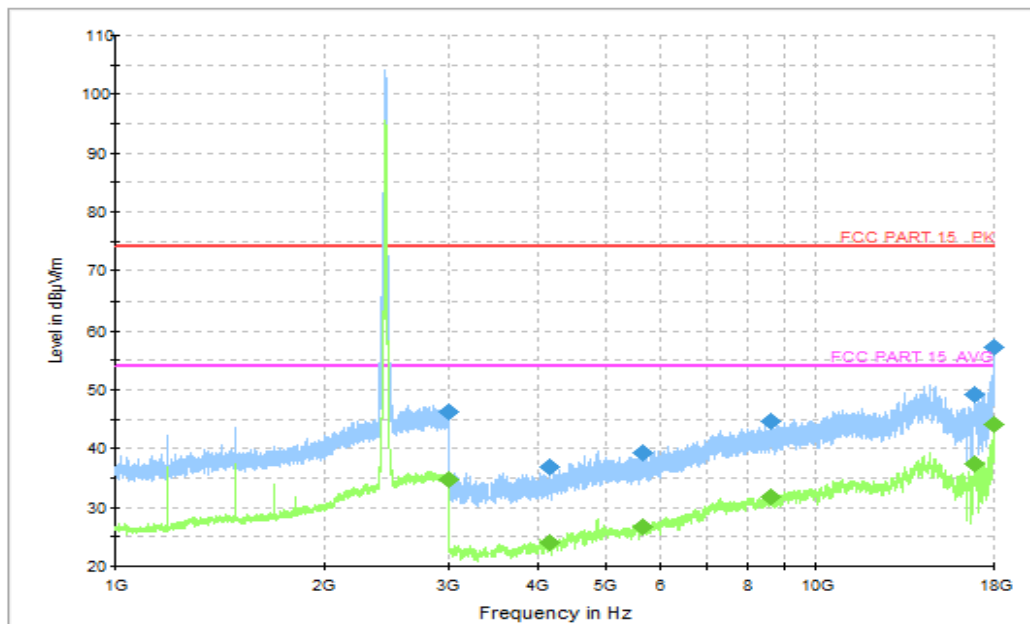


Fig.12 Radiated Spurious Emission (802.11n-HT20, CH6, 1GHz-18GHz)

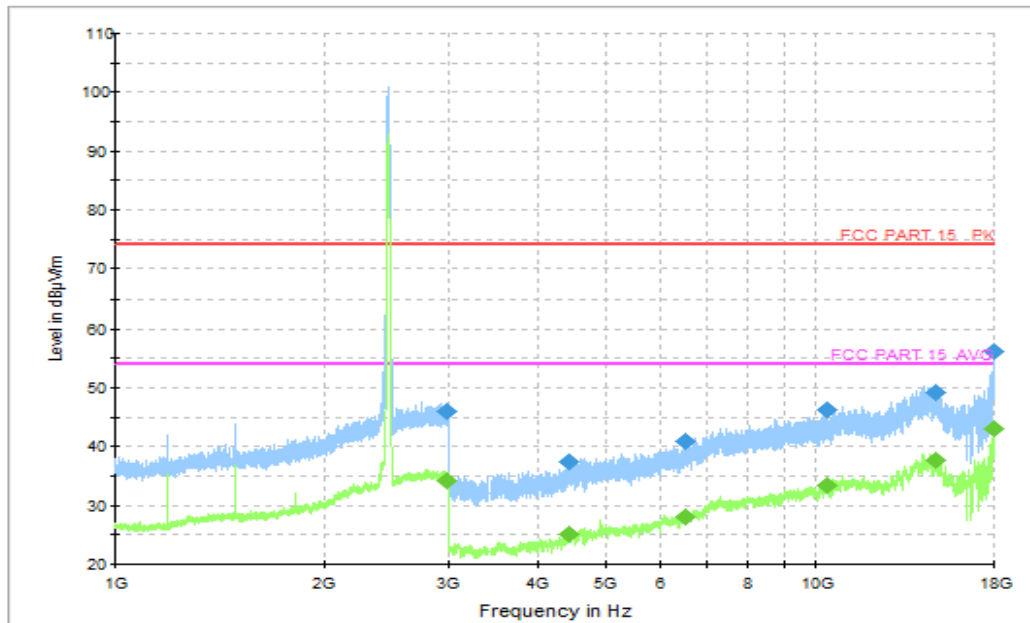


Fig.13 Radiated Spurious Emission (802.11n-HT20, CH1, 1GHz-18GHz)

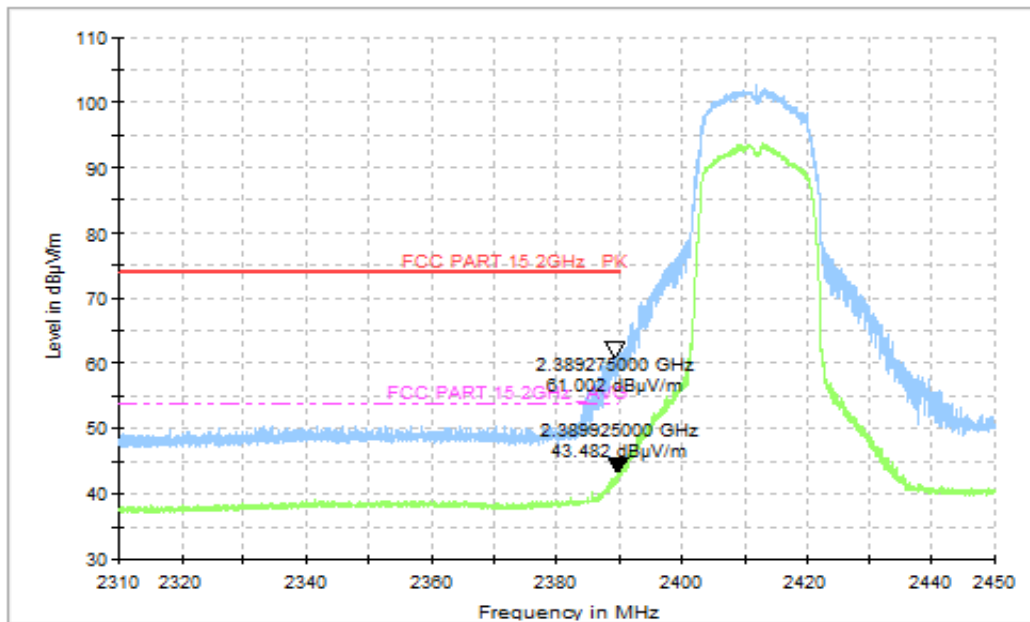


Fig.14 Radiated Restricted Band (802.11n-HT20, CH1, 2.38GHz~2.45GHz)

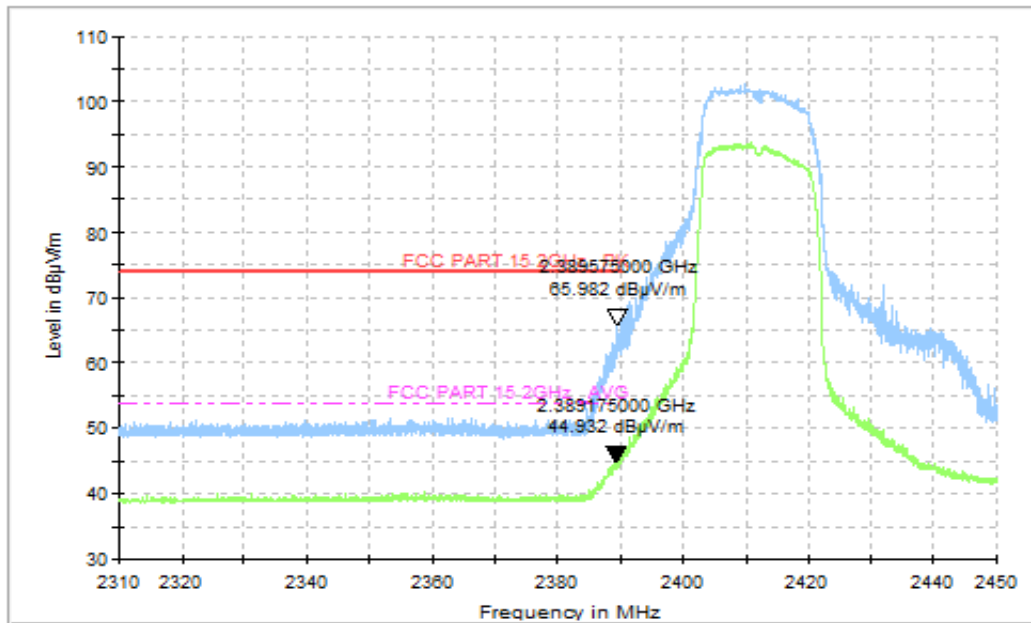


Fig.15 Radiated Spurious Emission (802.11n-HT20, CH11, 2.45GHz~2.50GHz)

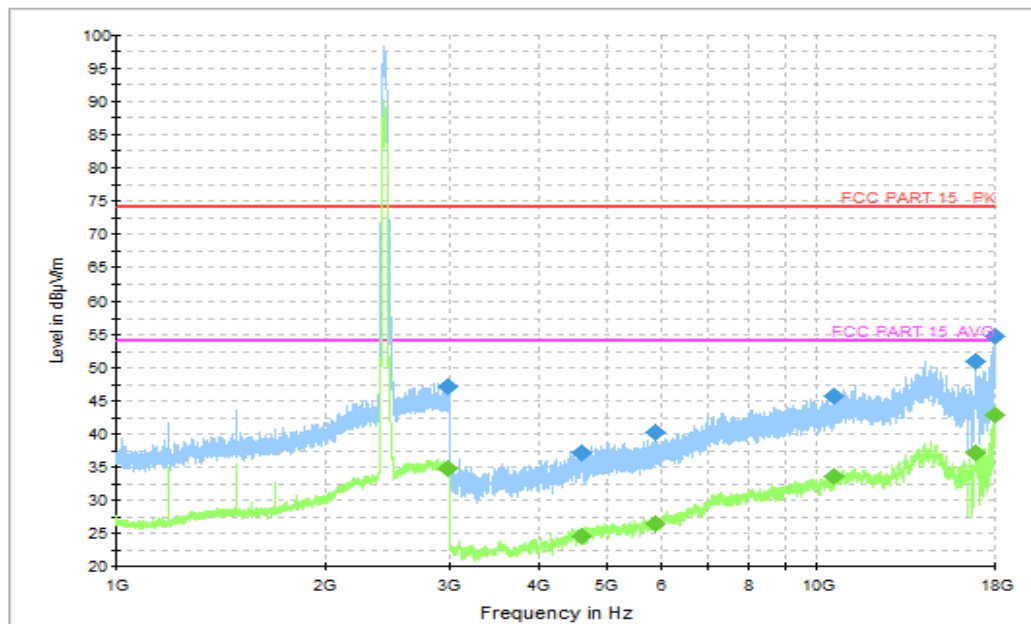


Fig.16 Radiated Spurious Emission (802.11n-HT40, CH3, 1GHz~18GHz)

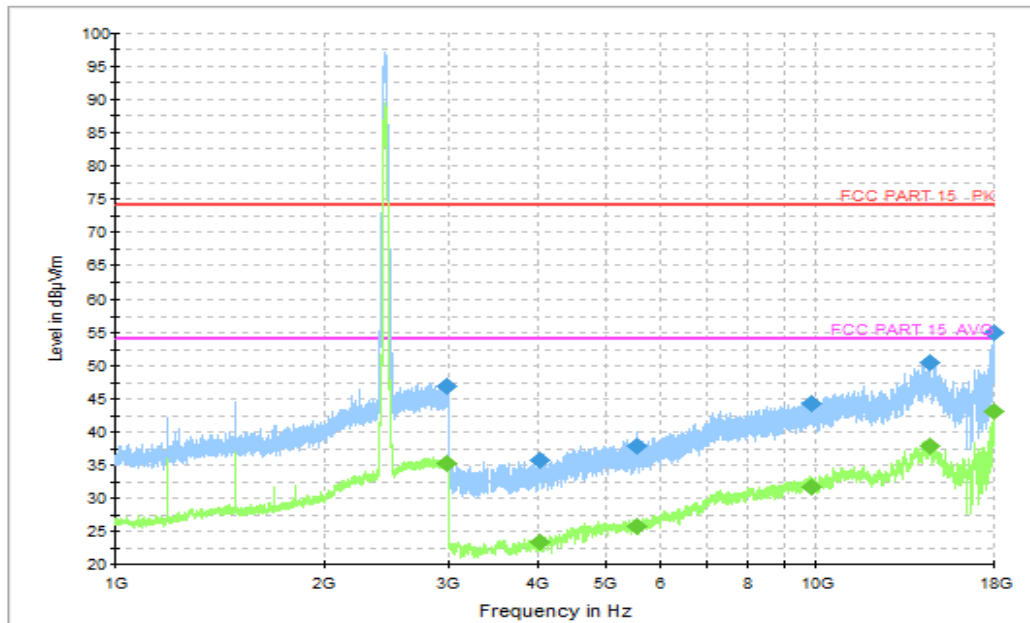


Fig.17 Radiated Spurious Emission (802.11n-HT40, CH6, 1GHz-18GHz)

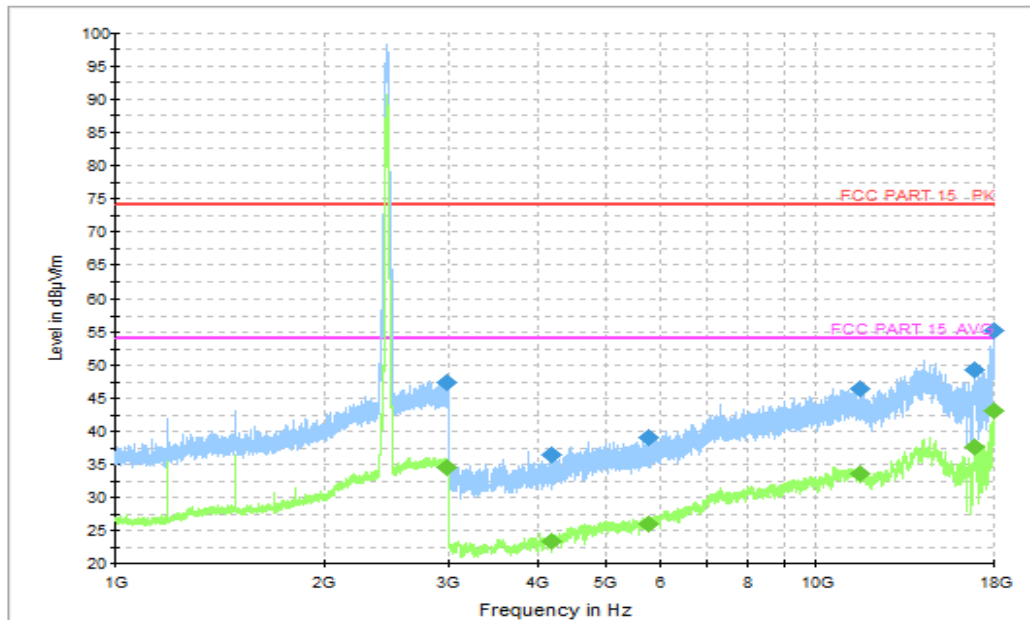


Fig.18 Radiated Spurious Emission (802.11n-HT40, CH9, 1GHz-18GHz)

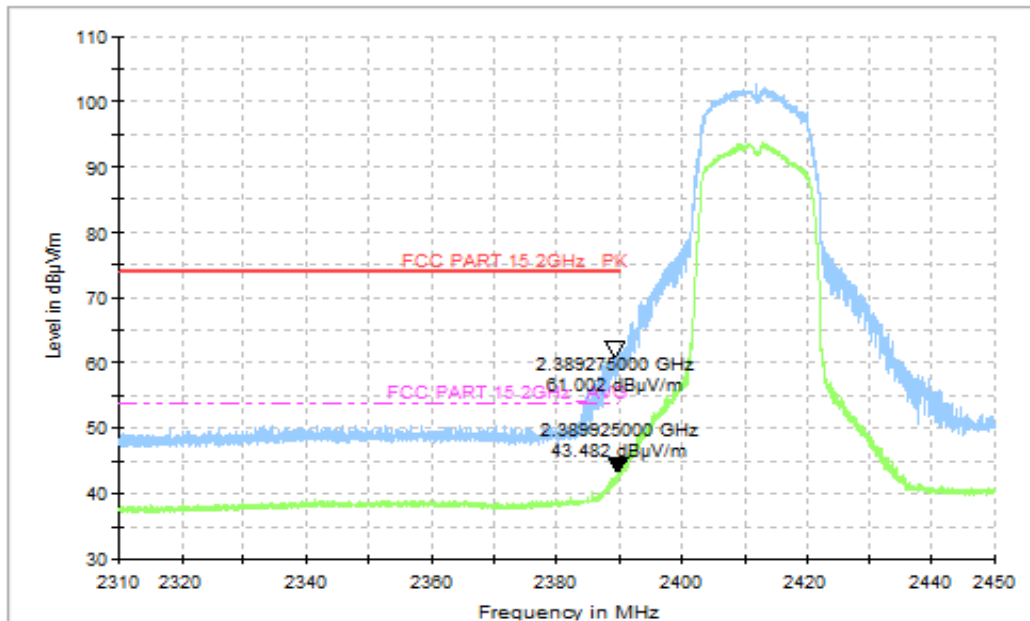


Fig.19 Radiated Restricted Band (802.11n-HT40, CH3, 2.38GHz~2.45GHz)

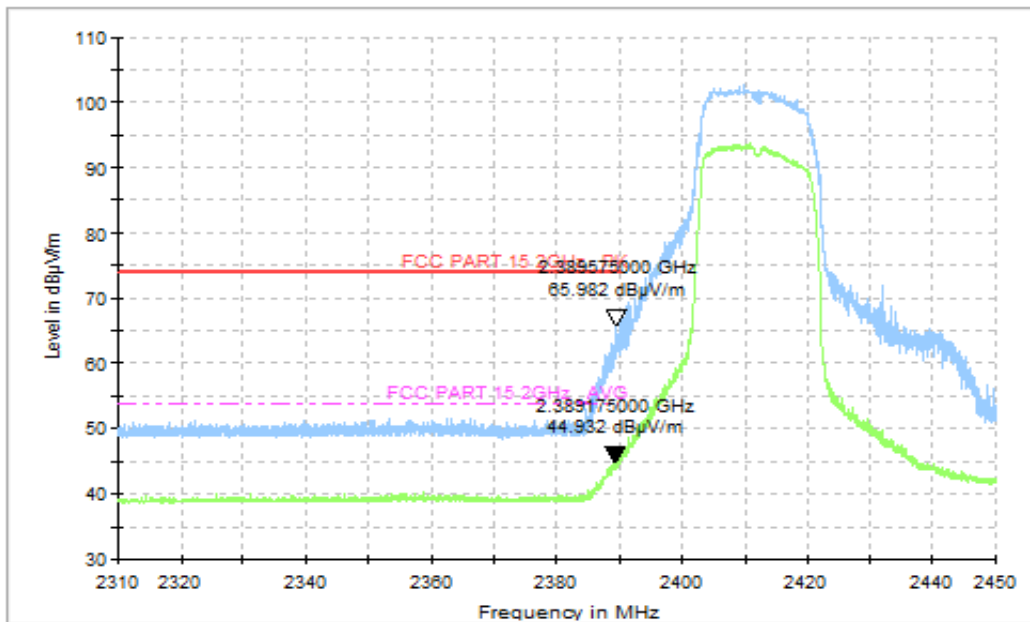


Fig.20 Radiated Spurious Emission (802.11n-HT40, CH9, 2.45GHz~2.50GHz)

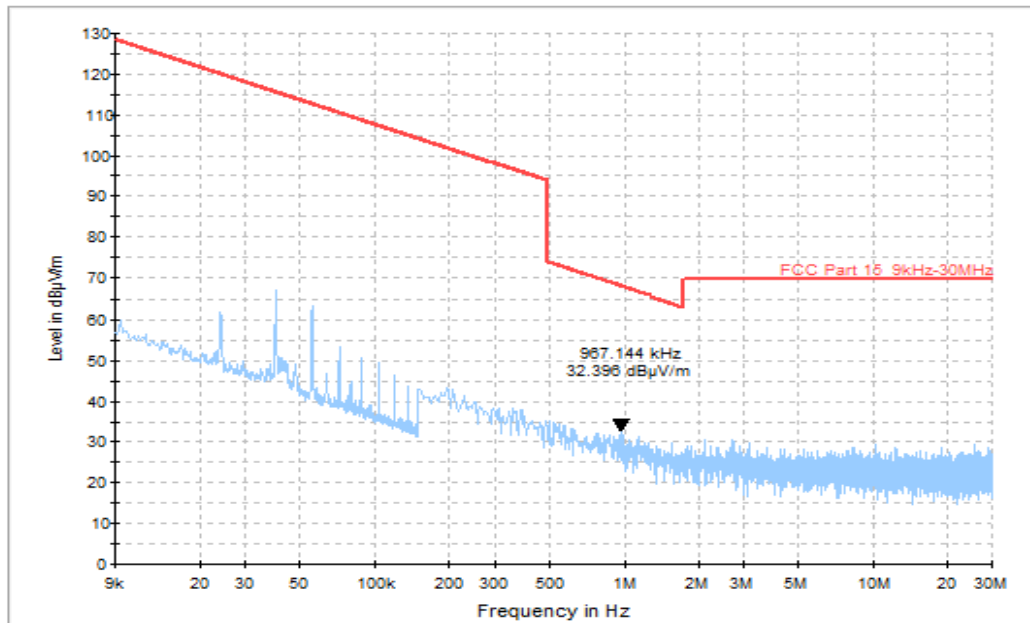


Fig.21 Radiated Spurious Emission (All channel, 9kHz~30MHz)

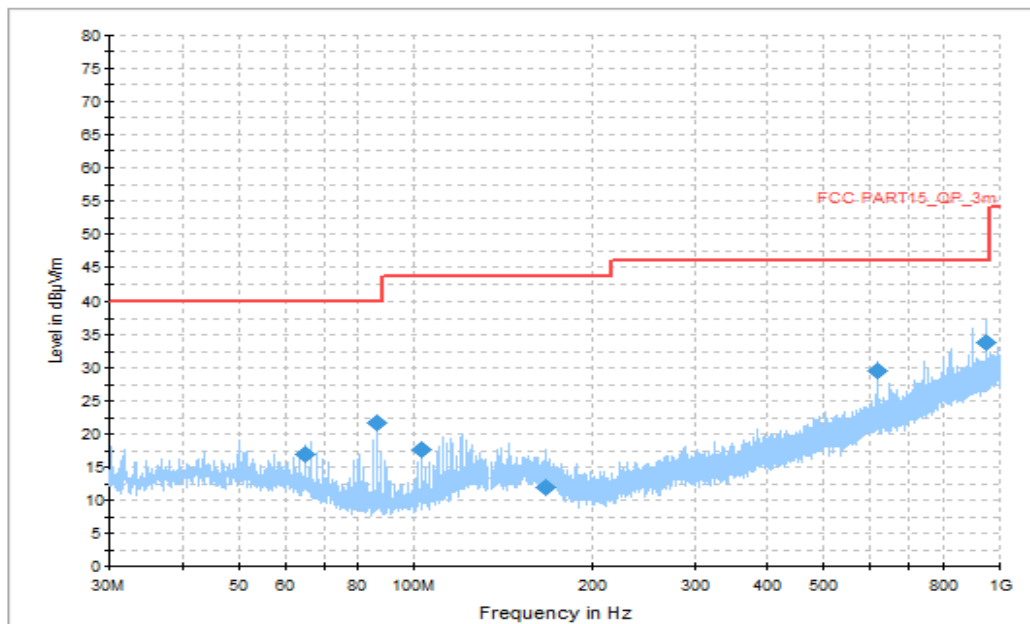


Fig.22 Radiated Spurious Emission (All channel, 30MHz~1GHz)

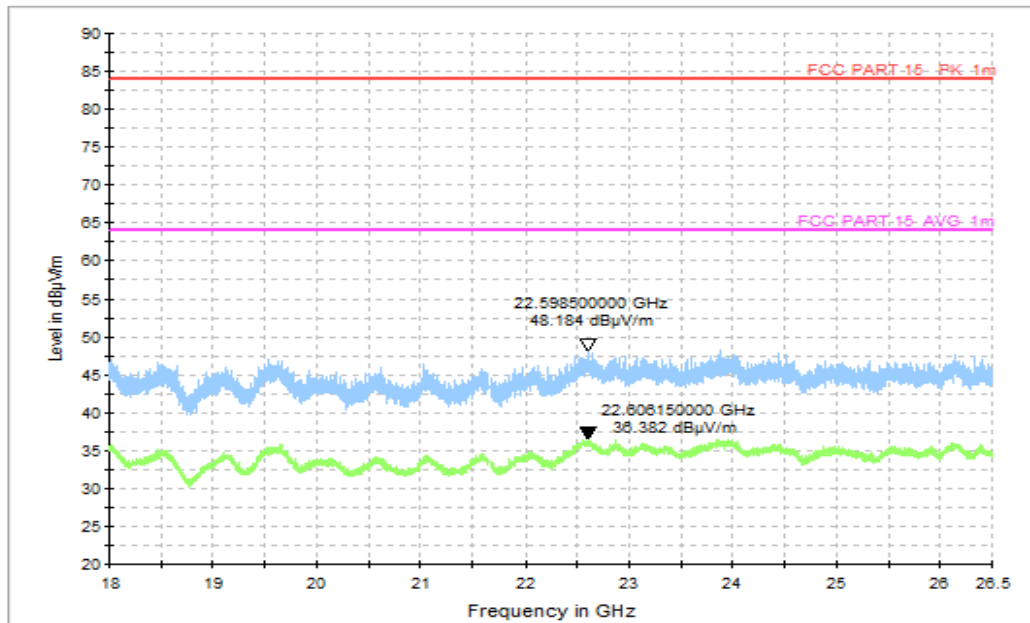


Fig.23 Radiated Spurious Emission (All channel, 18GHz~26.5GHz)

**A.2 AC Power line Conducted Emission****Method of Measurement: See ANSI C63.10-clause 6.2.****Test Condition:**

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:**WLAN 2.4GHz - AE2, AE3**

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
			Traffic	Idle	
0.15 to 0.5	66 to 56	56 to 46	Fig.24	Fig.25	P
0.5 to 5	56	46			
5 to 30	60	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 below for test graphs.****Conclusion: PASS**

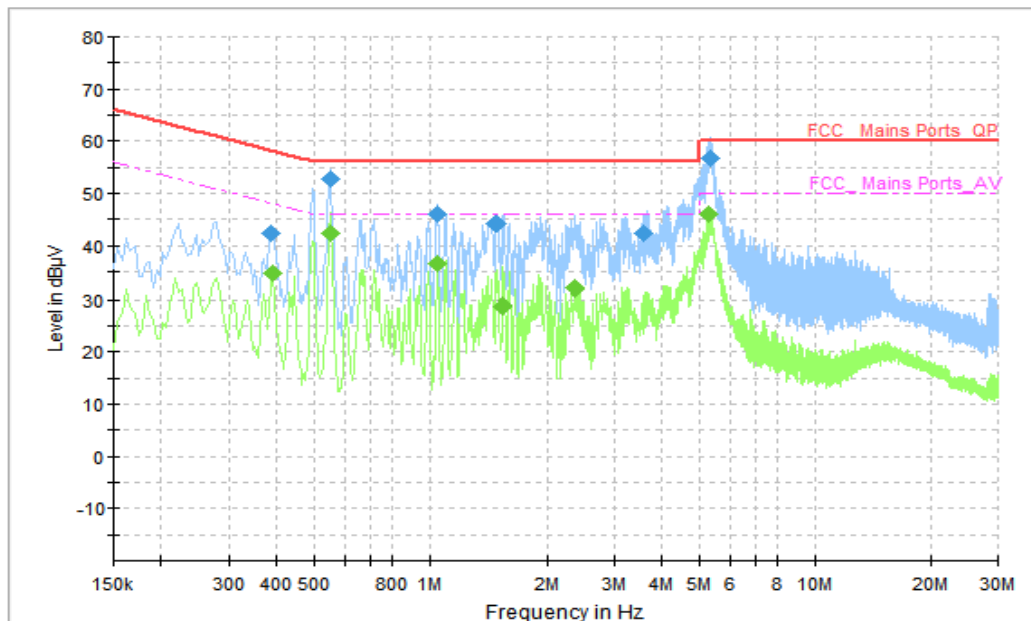


Fig.24 AC Power line Conducted Emission (Traffic)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.386000	42.41	58.15	15.74	N	ON	10
0.550000	52.65	56.00	3.35	N	ON	10
1.046000	46.16	56.00	9.84	N	ON	10
1.490000	44.32	56.00	11.68	N	ON	10
3.582000	42.51	56.00	13.49	N	ON	10
5.330000	56.62	60.00	3.38	N	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.390000	34.61	48.06	13.45	N	ON	10
0.550000	42.46	46.00	3.54	N	ON	10
1.046000	36.68	46.00	9.32	N	ON	10
1.538000	28.73	46.00	17.27	N	ON	10
2.374000	31.87	46.00	14.13	N	ON	10
5.274000	46.13	50.00	3.87	N	ON	10

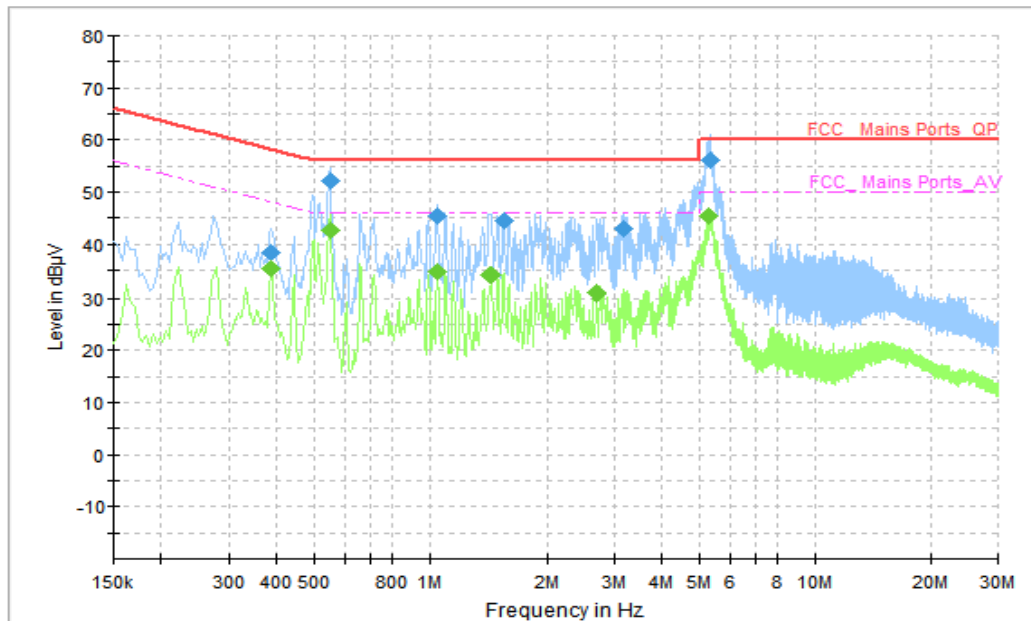


Fig.25 AC Power line Conducted Emission (Idle)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.386000	38.51	58.15	19.64	N	ON	10
0.550000	52.24	56.00	3.76	N	ON	10
1.042000	45.38	56.00	10.62	N	ON	10
1.542000	44.53	56.00	11.47	N	ON	10
3.186000	43.00	56.00	13.00	N	ON	11
5.326000	56.13	60.00	3.87	N	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.386000	35.20	48.15	12.95	N	ON	10
0.550000	42.61	46.00	3.39	N	ON	10
1.042000	34.59	46.00	11.41	N	ON	10
1.434000	34.09	46.00	11.91	N	ON	10
2.690000	30.66	46.00	15.34	N	ON	10
5.274000	45.55	50.00	4.45	N	ON	10

END OF REPORT