



**FCC PART 15
TEST REPORT
(RADIATED PART)
No. I15Z40514-SRD08**

for

Sony Mobile Communications Inc.

GSM/WCDMA/LTE Device

With

FCC ID: PY7-PM0796

Hardware Version: A

Software Version: 1292-7201,s_atp _1_41_5_2

Issued Date: 2015-05-19



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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1. TEST LATORATORY

1.1. Testing Location

Company Name: CTTL Beijing, Telecommunication Metrology Center of MIIT
Address: No 52 Hua Yuanbei Road, Haidian District, Beijing, P.R.China
Postal Code: 100191
Telephone: 008610623046332561
Fax: 008610623046332504

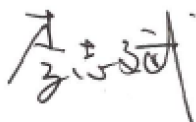
1.2. Project data

Testing Start Date: 2015-03-20
Testing End Date: 2015-04-30

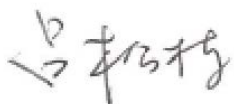
1.3. Signature



Xu Zhongfei
(Prepared this test report)



Li Zhibin
(Reviewed this test report)



Lv Songdong
(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Sony Mobile Communications (China) Co. Ltd
Address /Post: Sony Mobile R&D Center, No. 16, Guangshun South Street,
Chaoyang District
City: Beijing
Postal Code: 100102
Country: China
Contact Person: Ma, Gang
Telephone: +86-10-58656312
Fax: +86-10-58659049

2.2. Manufacturer Information

Company Name: Sony Mobile Communications Inc.
Address /Post: 1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan
City: Tokyo
Postal Code: 108-0075
Country: Japan

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	GSM/WCDMA/LTE Device
FCC ID	PY7-PM0796
WLAN Frequency Range	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Extreme vol. Limits	3.6VDC to 4.2VDC (nominal: 3.8VDC)

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	004402148060480	A	1292-7201,s_atp_1_41_5_2

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Travel Charger	/	/
AE3	USB Cable	1447A7PC000350C	/

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

3.4. General Description

The Equipment Under Test (EUT) is a model of GSM/WCDMA/LTE Device with integrated antenna and embedded battery.

It consists of normal options: USB cable and travel charger.

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.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2014
UNII: KDB 789033	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E	2014

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Transmitter spurious emissions radiated	15.407	/	P
Spurious emissions radiated < 30 MHz	15.407	/	P
Spurious emissions conducted < 30 MHz	15.407	/	P

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/manufacture as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.8V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2014-11-6	2015-11-5
2	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2012-11-11	2015-11-10
3	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS-Lindgren	2014-4-20	2017-4-19
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2014-7-1	2017-06-30
5	Loop antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2012-12-21	2015-12-20
6	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/	/

ANNEX A: MEASUREMENT RESULTS

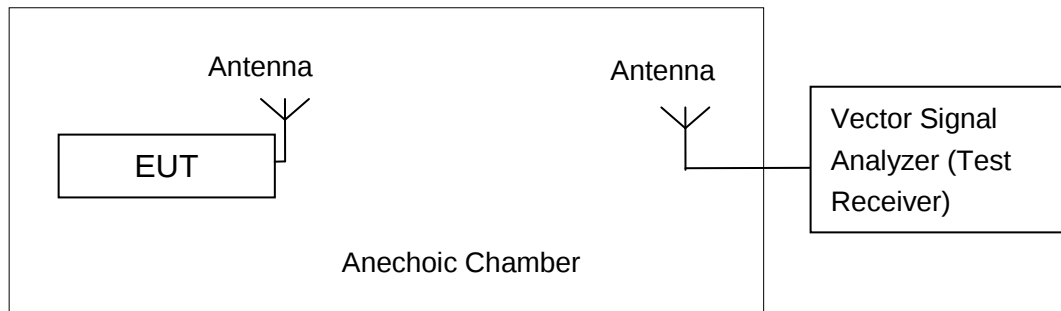
A.1. Measurement Method

A.1.1. Radiated Emission Measurements

In the case of radiated emission are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 3MHz;



The measurement is made according to KDB 789033

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

A.2. Band Edges Compliance

A2.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dB μ V/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

The measurement is made according to KDB 789033

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)).

Modulation type and data rate:

802.11a	802.11n-HT20	802.11n-HT40	802.11ac-HT80
6Mbps	MCS0	MCS0	MCS0

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.1	P
	5320 MHz	Fig.2	P
	5500 MHz	Fig.3	P
802.11n HT20	5180 MHz	Fig.4	P
	5320 MHz	Fig.5	P
	5500 MHz	Fig.6	P
802.11n HT40	5190 MHz	Fig.7	P
	5310 MHz	Fig.8	P
	5510 MHz	Fig.9	P
802.11ac HT80	5210 MHz	Fig.10	P
	5290 MHz	Fig.11	P
	5530 MHz	Fig.12	P

Conclusion: PASS

Test graphs as below:

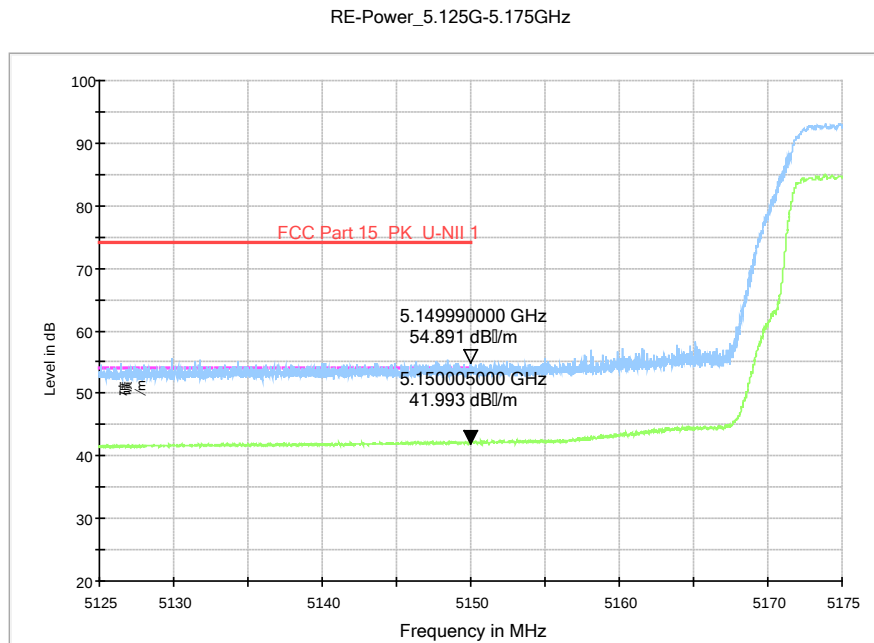


Fig. 1 Band Edges (802.11a, 5180MHz)

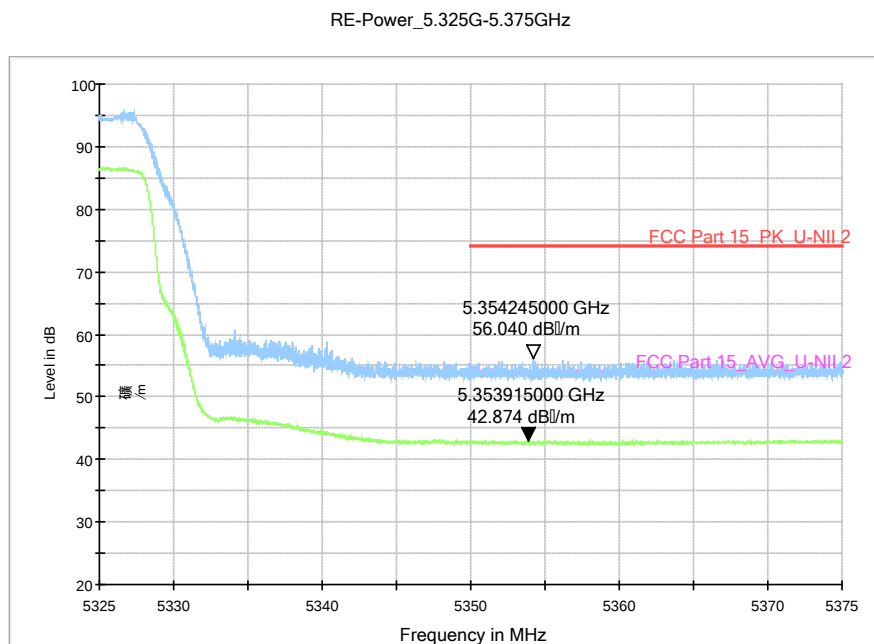


Fig. 2 Band Edges (802.11a, 5320MHz)

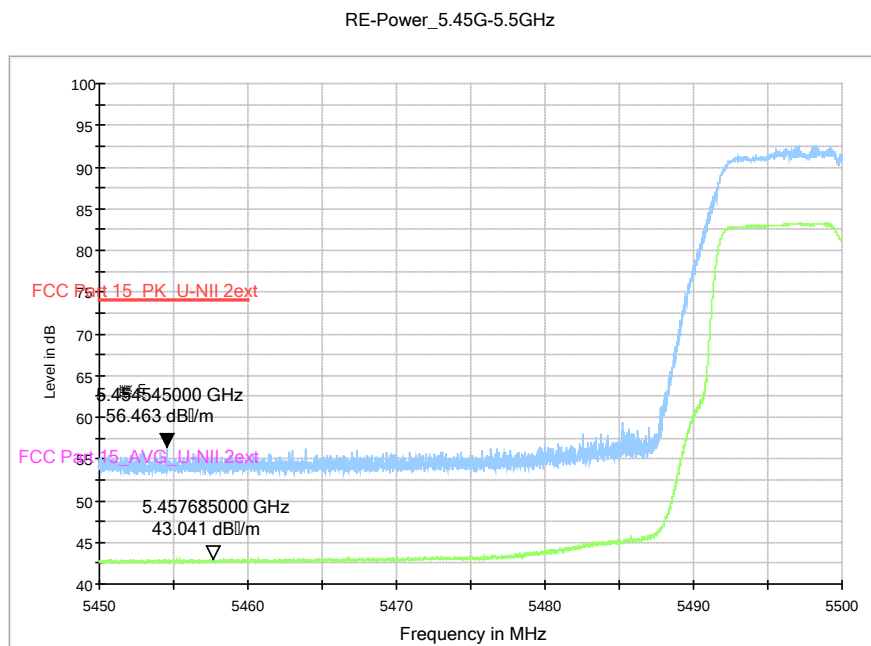


Fig. 3 Band Edges (802.11a, 5550MHz)

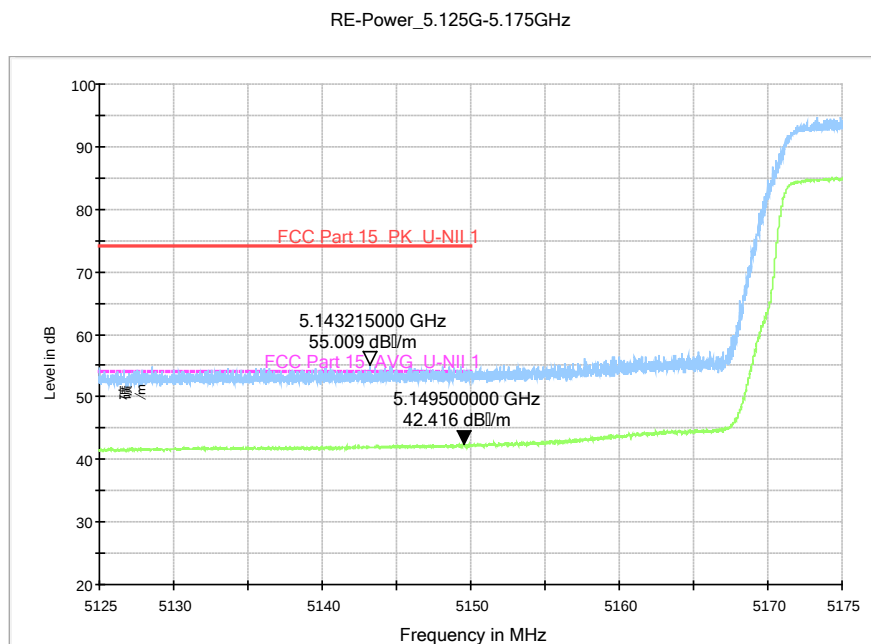


Fig. 4 Band Edges (802.11n-HT20, 5180MHz)

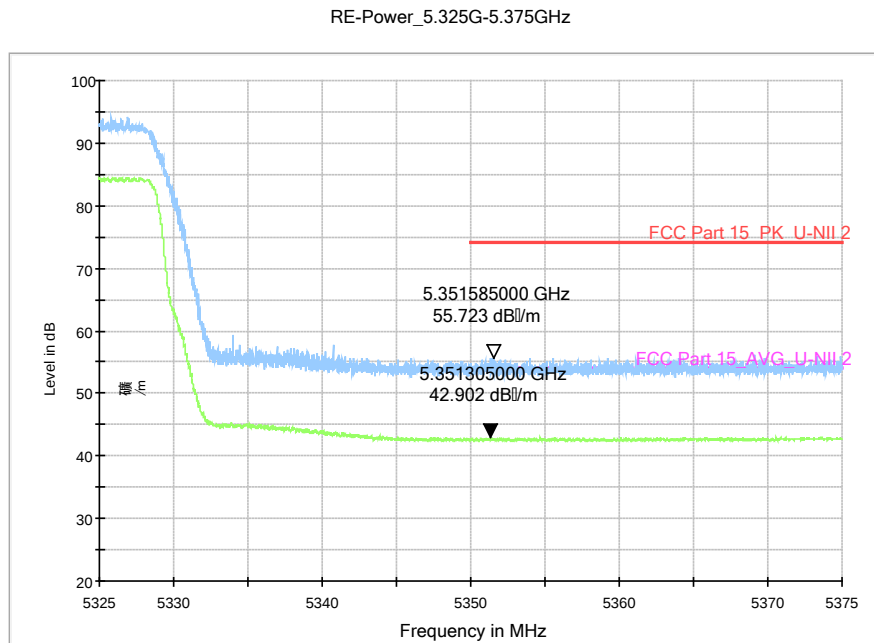


Fig. 5 Band Edges (802.11n-HT20, 5320MHz)

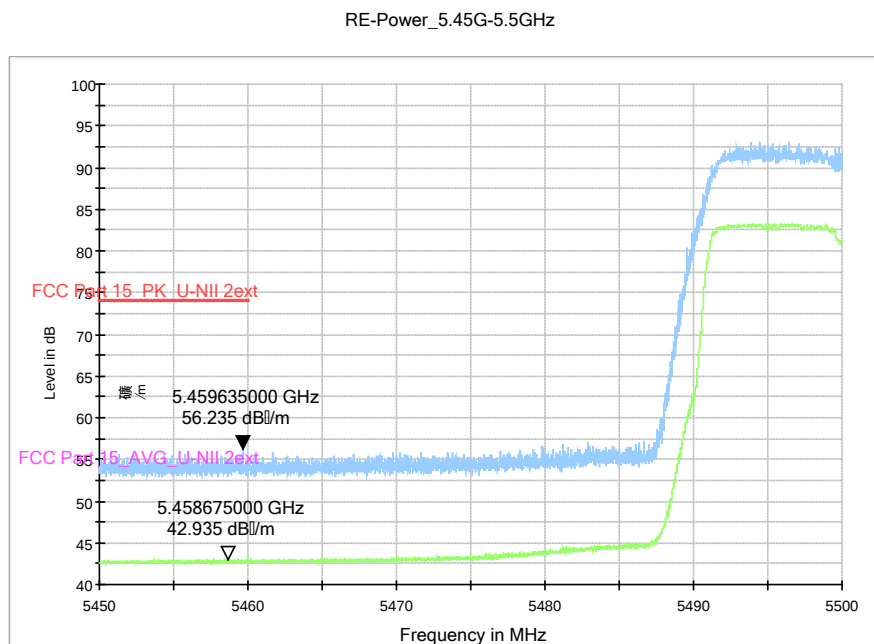


Fig. 6 Band Edges (802.11n-HT20, 5500MHz)

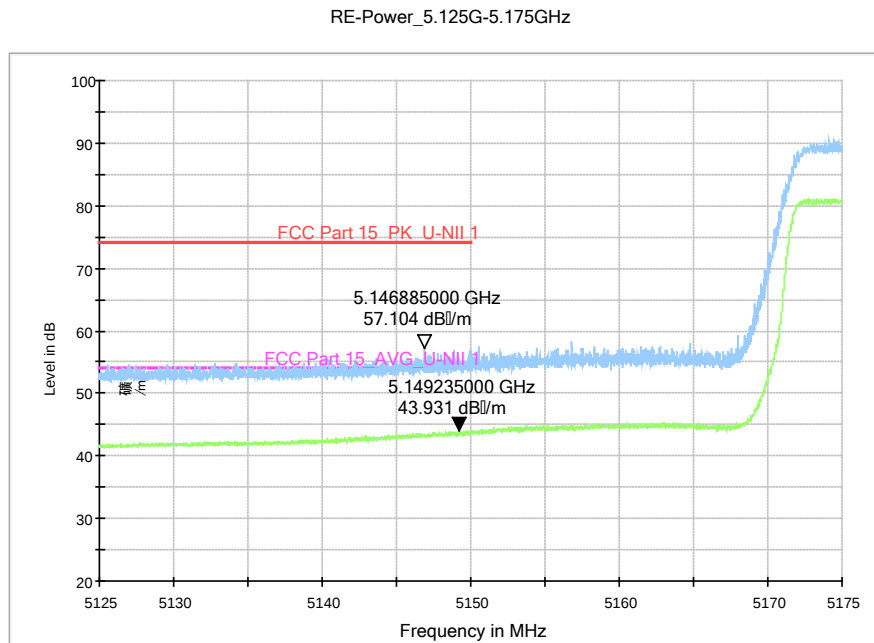


Fig. 7 Band Edges (802.11n-HT40, 5190MHz)

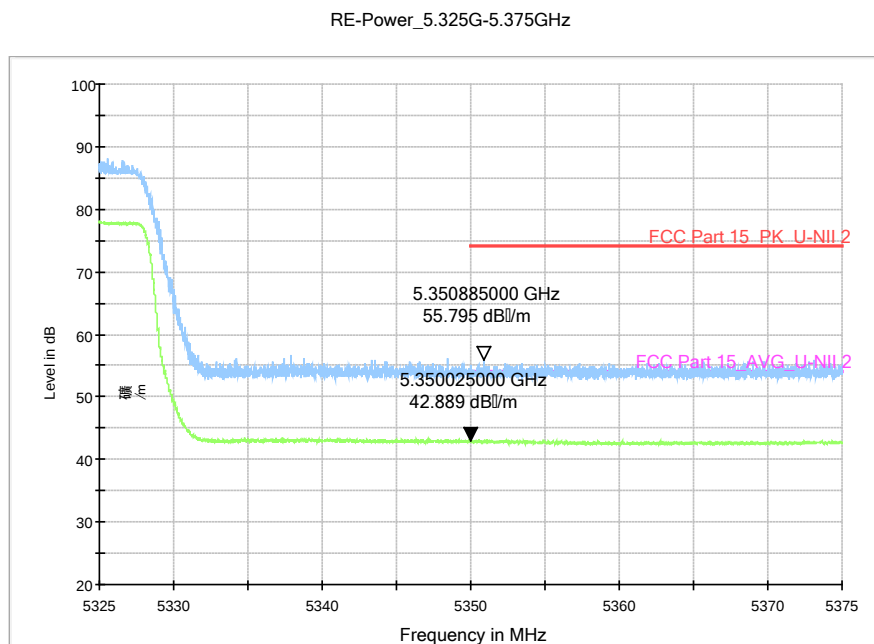


Fig. 8 Band Edges (802.11n-HT40, 5310MHz)

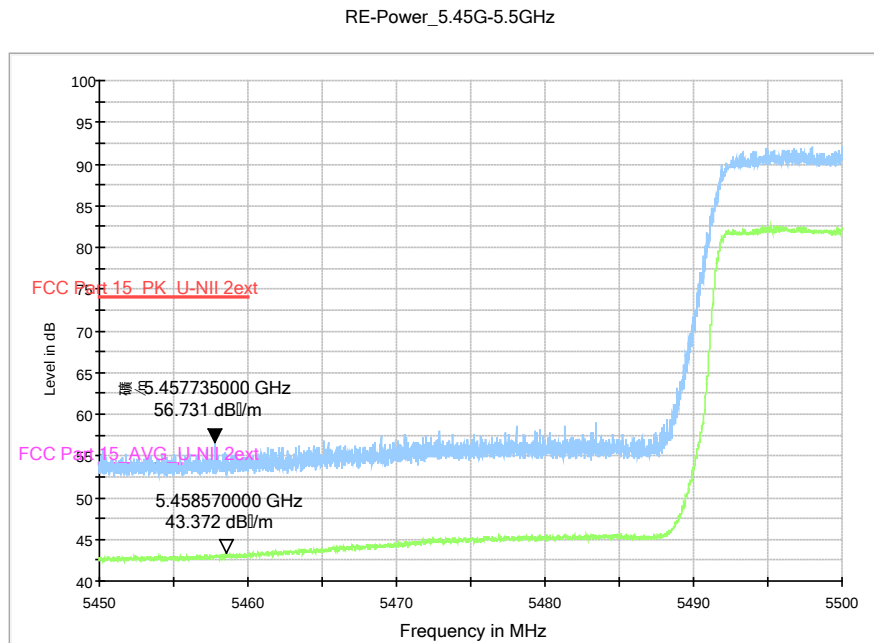


Fig. 9 Band Edges (802.11n-HT40, 5510MHz)

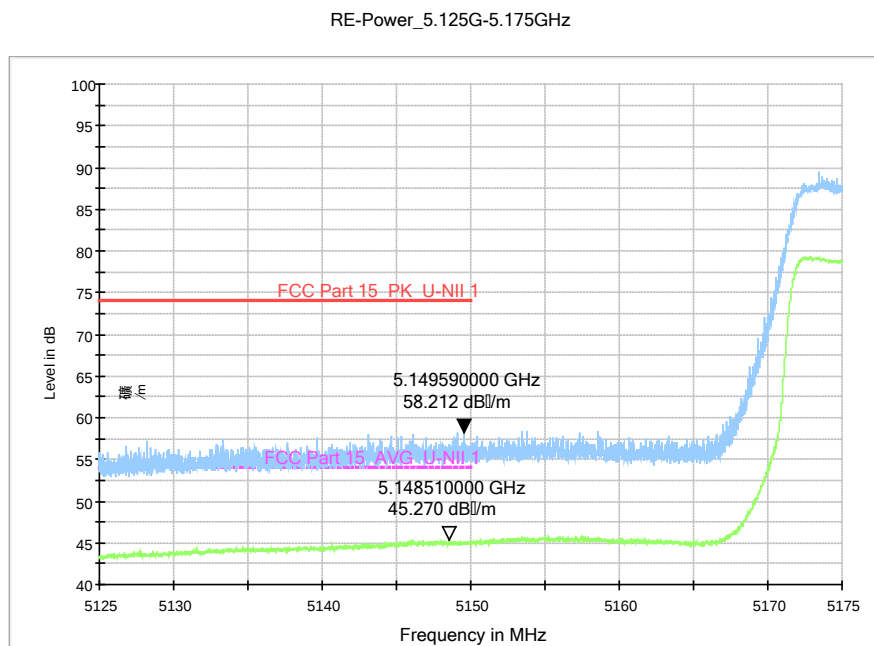


Fig. 10 Band Edges (802.11ac-HT80, 5210MHz)

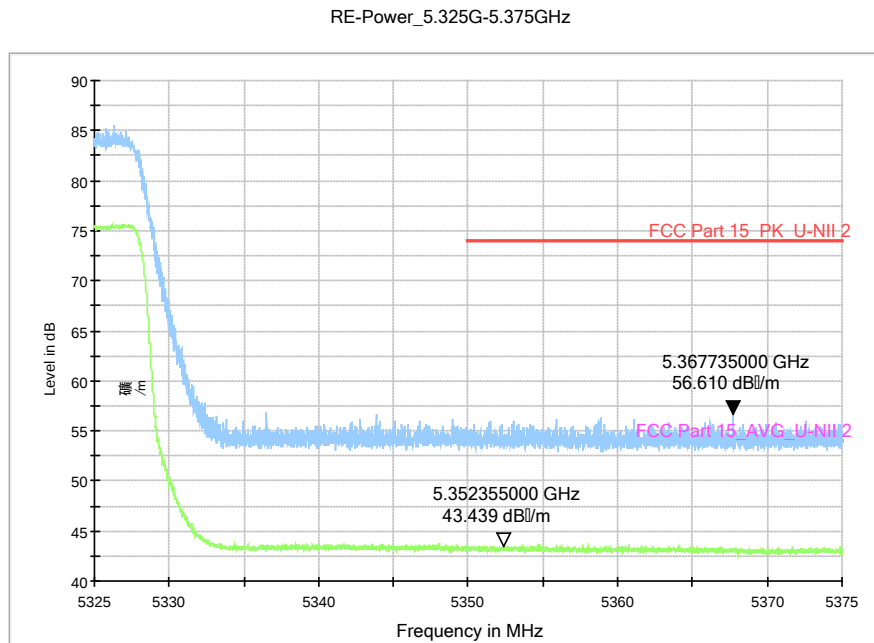


Fig. 11 Band Edges (802.11ac-HT80, 5290MHz)

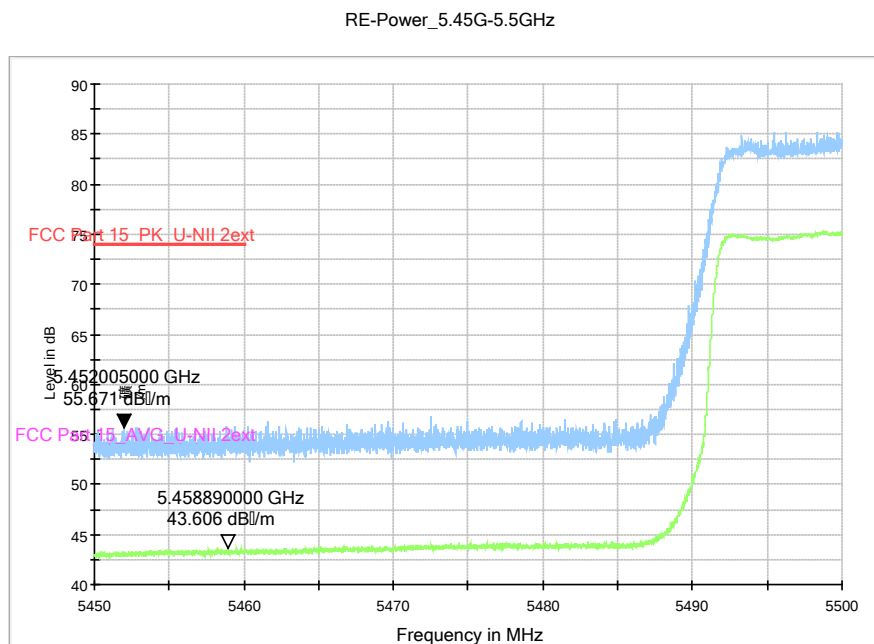


Fig. 12 Band Edges (802.11ac-HT80, 5530MHz)

A.3. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

The measurement is made according to KDB 789033

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(dBμV/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

Modulation type and data rate:

802.11a	802.11n-HT20	802.11n-HT40	802.11ac-HT80
6Mbps	MCS0	MCS0	MCS0

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.9 dB, k=2.

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	1 GHz ~ 6 GHz	Fig.13	P
		6 GHz ~ 18 GHz	Fig.14	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.15	P
		1 GHz ~ 6 GHz	Fig.16	P
		6 GHz ~ 18 GHz	Fig.17	P
		18 GHz ~ 26.5 GHz	Fig.18	P
		26.5 GHz ~ 40 GHz	Fig.19	P
	48(5240MHz)	1 GHz ~ 6 GHz	Fig.20	P
		6 GHz ~ 18 GHz	Fig.21	P
	52(5260MHz)	1 GHz ~ 6 GHz	Fig.22	P
		6 GHz ~ 18 GHz	Fig.23	P
	56(5280MHz)	30 MHz ~1 GHz	Fig.24	P
		1 GHz ~ 6 GHz	Fig.25	P
		6 GHz ~ 18 GHz	Fig.26	P
		18 GHz ~ 26.5 GHz	Fig.27	P
		26.5 GHz ~ 40 GHz	Fig.28	P
	64(5320MHz)	1 GHz ~ 6 GHz	Fig.29	P
		6 GHz ~ 18 GHz	Fig.30	P
	100(5500MHz)	1 GHz ~ 6 GHz	Fig.31	P
		6 GHz ~ 18 GHz	Fig.32	P
	120(5600MHz)	30 MHz ~1 GHz	Fig.33	P
		1 GHz ~ 6 GHz	Fig.34	P
		6 GHz ~ 18 GHz	Fig.35	P
		18 GHz ~ 26.5 GHz	Fig.36	P
		26.5 GHz ~ 40 GHz	Fig.37	P
	140(5700MHz)	1 GHz ~ 6 GHz	Fig.38	P
		6 GHz ~ 18 GHz	Fig.39	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n -HT20	36(5180MHz)	1 GHz ~ 6 GHz	Fig.40	P
		6 GHz ~ 18 GHz	Fig.41	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.42	P
		1 GHz ~ 6 GHz	Fig.43	P
		6 GHz ~ 18 GHz	Fig.44	P
		18 GHz ~ 26.5 GHz	Fig.45	P
		26.5 GHz ~ 40 GHz	Fig.46	P
	48(5240MHz)	1 GHz ~ 6 GHz	Fig.47	P
		6 GHz ~ 18 GHz	Fig.48	P
	52(5260MHz)	1 GHz ~ 6 GHz	Fig.49	P
		6 GHz ~ 18 GHz	Fig.50	P
	56(5280MHz)	30 MHz ~1 GHz	Fig.51	P
		1 GHz ~ 6 GHz	Fig.52	P
		6 GHz ~ 18 GHz	Fig.53	P
		18 GHz ~ 26.5 GHz	Fig.54	P
		26.5 GHz ~ 40 GHz	Fig.55	P
	64(5320MHz)	1 GHz ~ 6 GHz	Fig.56	P
		6 GHz ~ 18 GHz	Fig.57	P
	100(5500MHz)	1 GHz ~ 6 GHz	Fig.58	P
		6 GHz ~ 18 GHz	Fig.59	P
	120(5600MHz)	30 MHz ~1 GHz	Fig.60	P
		1 GHz ~ 6 GHz	Fig.61	P
		6 GHz ~ 18 GHz	Fig.62	P
		18 GHz ~ 26.5 GHz	Fig.63	P
		26.5 GHz ~ 40 GHz	Fig.64	P
	140(5700MHz)	1 GHz ~ 6 GHz	Fig.65	P
		6 GHz ~ 18 GHz	Fig.66	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	38(5190MHz)	30 MHz ~1 GHz	Fig.67	P
		1 GHz ~ 6 GHz	Fig.68	P
		6 GHz ~ 18 GHz	Fig.69	P
		18 GHz ~ 26.5 GHz	Fig.70	P
		26.5 GHz ~ 40 GHz	Fig.71	P
	46(5230MHz)	1 GHz ~ 6 GHz	Fig.72	P
		6 GHz ~ 18 GHz	Fig.73	P
	54(5270MHz)	1 GHz ~ 6 GHz	Fig.74	P
		6 GHz ~ 18 GHz	Fig.75	P
		18 GHz ~ 26.5 GHz	Fig.76	P
	62(5310MHz)	30 MHz ~1 GHz	Fig.77	P
		1 GHz ~ 6 GHz	Fig.78	P
		6 GHz ~ 18 GHz	Fig.79	P
	102(5510MHz)	1 GHz ~ 6 GHz	Fig.80	P
		6 GHz ~ 18 GHz	Fig.81	P
	118(5590MHz)	30 MHz ~1 GHz	Fig.82	P
		1 GHz ~ 6 GHz	Fig.83	P
		6 GHz ~ 18 GHz	Fig.84	P
		18 GHz ~ 26.5 GHz	Fig.85	P
	134(5670MHz)	1 GHz ~ 6 GHz	Fig.86	P
		6 GHz ~ 18 GHz	Fig.87	P

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac HT80	42(5210MHz)	1 GHz ~ 6 GHz	Fig.88	P
		6 GHz ~ 18 GHz	Fig.89	P
	58(5290MHz)	30 MHz ~1 GHz	Fig.90	P
		1 GHz ~ 6 GHz	Fig.91	P
		6 GHz ~ 18 GHz	Fig.92	P
		18 GHz ~ 26.5 GHz	Fig.93	P
		26.5 GHz ~ 40 GHz	Fig.94	P
	106(5530MHz)	1 GHz ~ 6 GHz	Fig.95	P
		6 GHz ~ 18 GHz	Fig.96	P

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

802.11a

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17985.000	55.5	-17.7	45.6	27.6	V
17961.000	54.9	-17.7	45.6	27.0	V
17953.500	54.9	-17.7	45.6	27.0	V
17997.000	54.6	-17.7	45.6	26.7	H
17991.000	54.6	-17.7	45.6	26.7	V
17989.500	54.5	-17.7	45.6	26.6	V

802.11n-HT20

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17991.000	56.6	-17.7	45.6	28.7	V
17997.000	56.6	-17.7	45.6	28.7	V
17952.000	56.0	-17.7	45.6	28.1	V
17964.000	55.9	-17.7	45.6	28.0	V
17820.000	55.8	-18.5	45.6	28.7	V
17928.000	55.4	-17.7	45.6	27.5	V

802.11n-HT40

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5354.830	54.4	-34.8	34.6	54.6	V
17995.500	55.9	-17.7	45.6	28.0	V
17997.000	55.4	-17.7	45.6	27.5	V
17998.500	55.2	-17.7	45.6	27.3	V
17959.500	55.2	-17.7	45.6	27.3	V
17920.500	55.1	-17.7	45.6	27.2	H

802.11ac-HT80

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5351.756	54.8	-34.8	34.6	55.000	V
17773.500	55.7	-18.5	45.6	28.600	V
17992.500	55.5	-17.7	45.6	27.600	H
17989.500	55.4	-17.7	45.6	27.500	V
17982.000	55.3	-17.7	45.6	27.400	V
18000.000	55.1	-17.7	44.5	28.300	V

Test graphs as below:

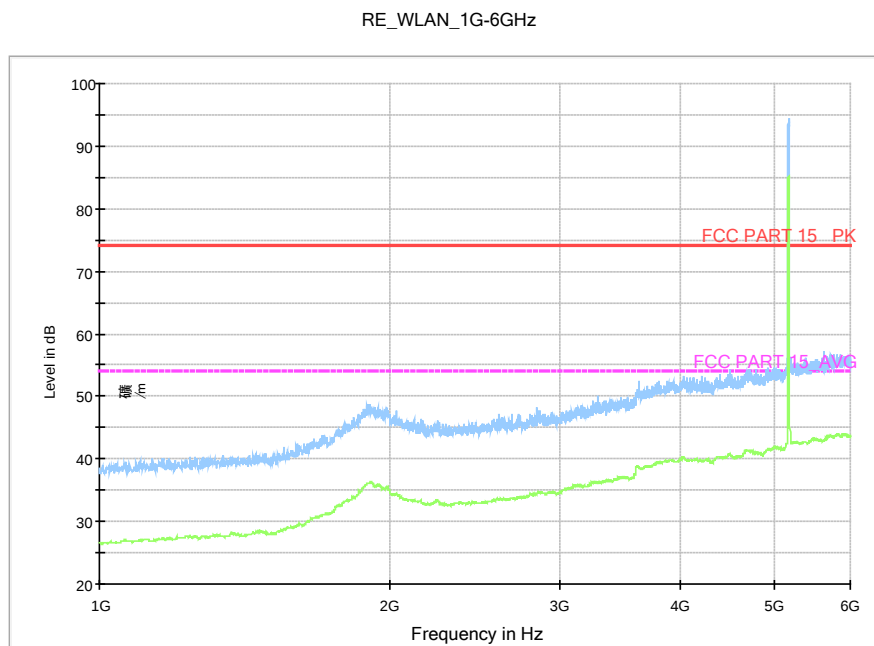


Fig. 13 Radiated Spurious Emission (802.11a, ch36, 1 GHz-6 GHz)

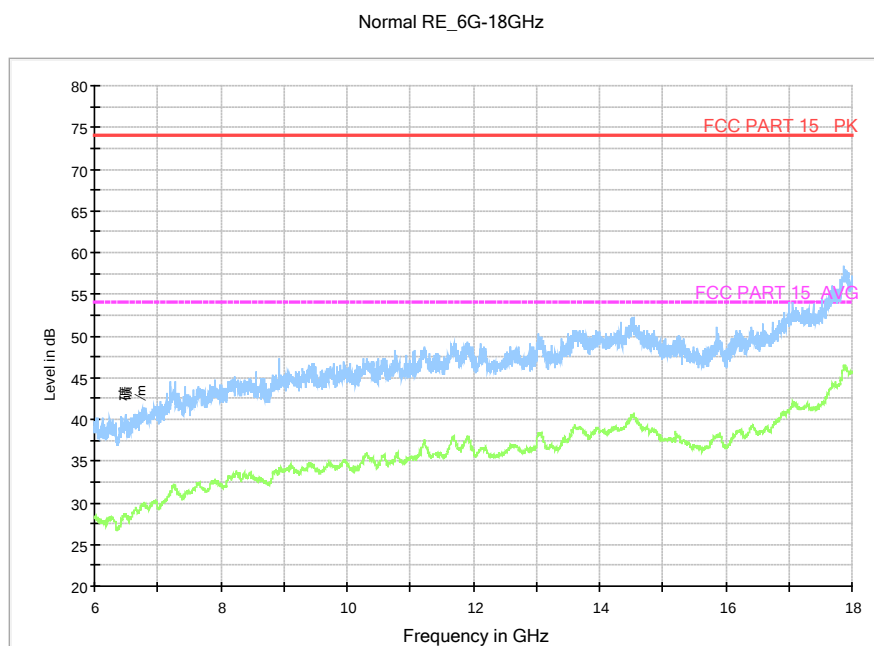


Fig. 14 Radiated Spurious Emission (802.11a, ch36, 6 GHz-18 GHz)

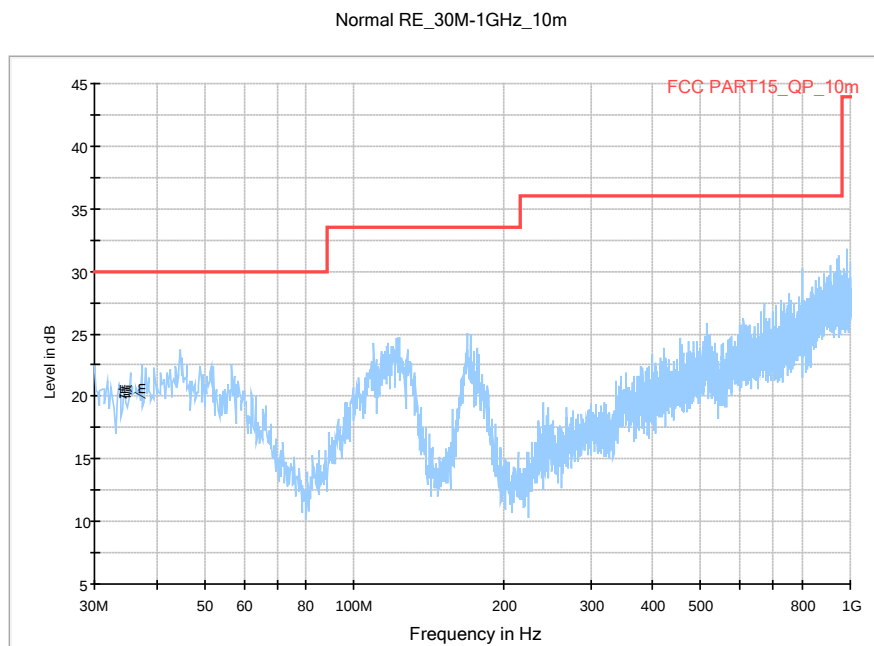


Fig. 15 Radiated Spurious Emission (802.11a, ch40, 30 MHz-1 GHz)

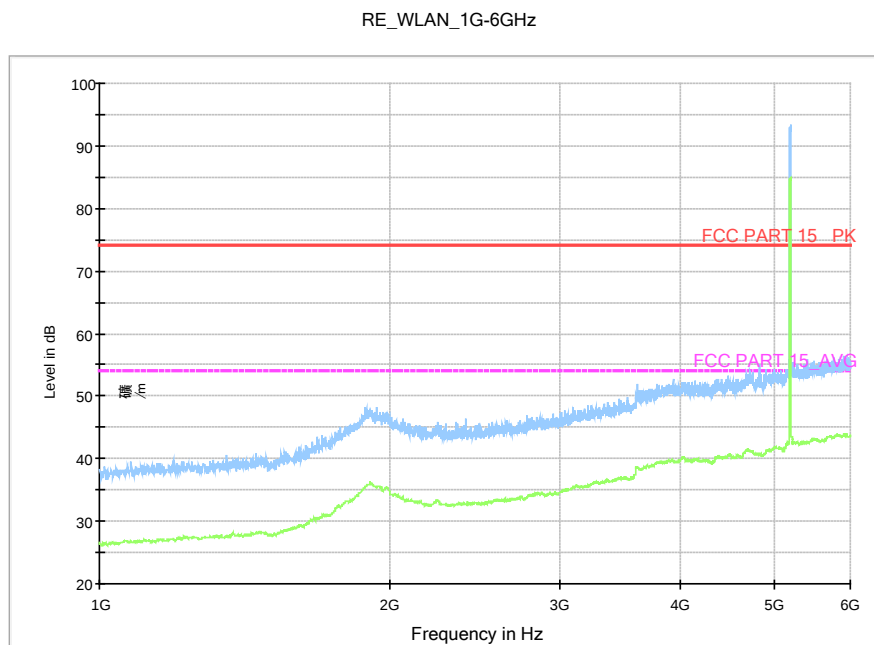


Fig. 16 Radiated Spurious Emission (802.11a, ch40, 1 GHz-6 GHz)

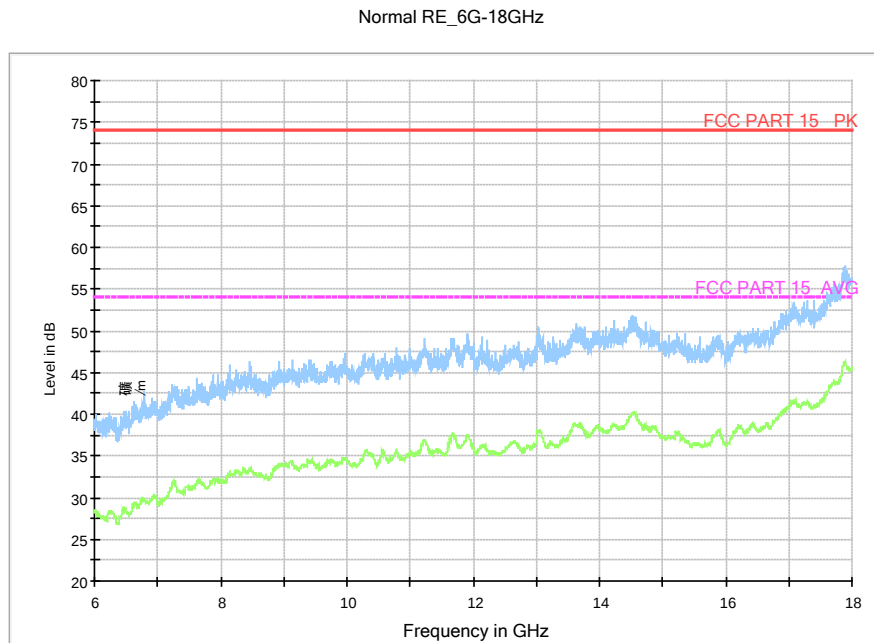


Fig. 17 Radiated Spurious Emission (802.11a, ch40, 6 GHz-18 GHz)

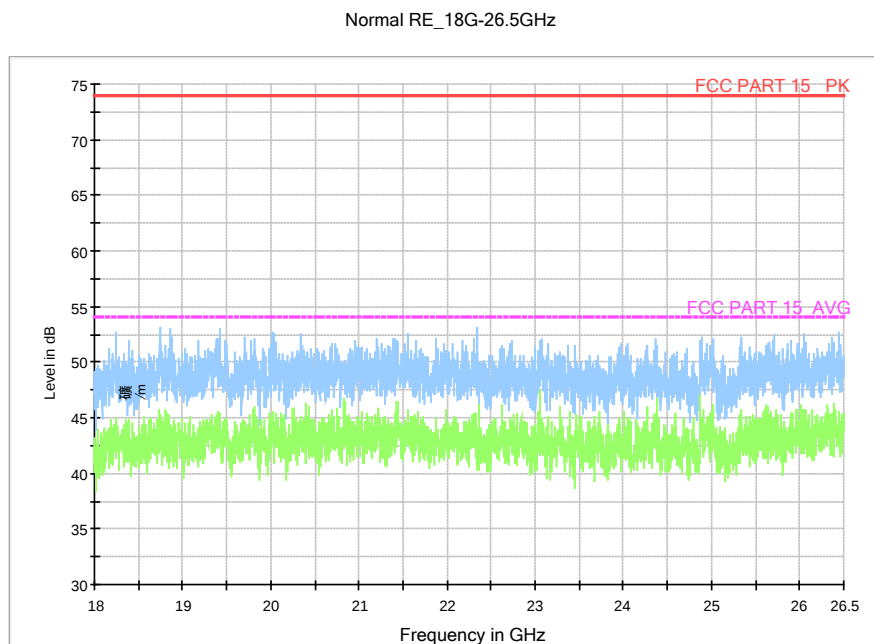


Fig. 18 Radiated Spurious Emission (802.11a, ch40, 18 GHz-26.5 GHz)

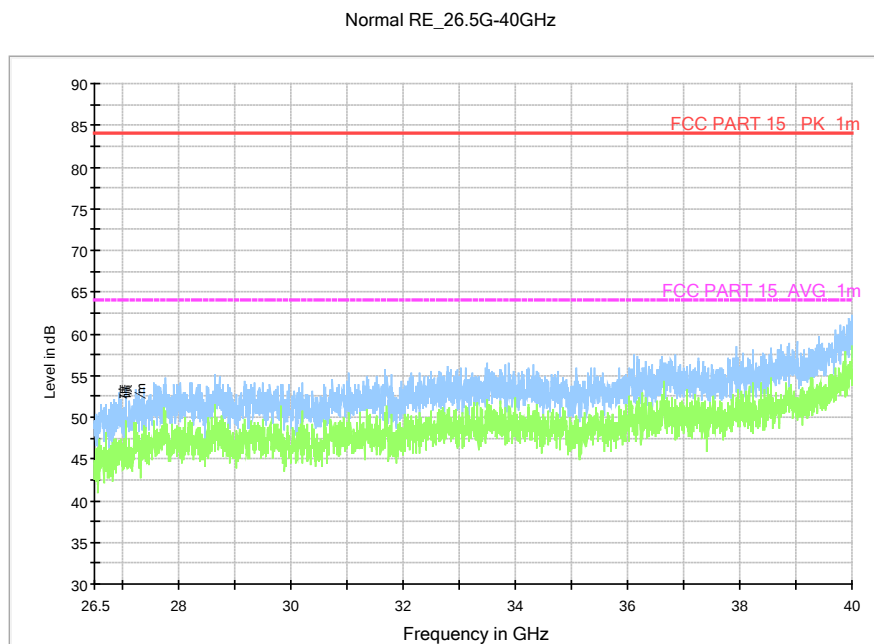


Fig. 19 Radiated Spurious Emission (802.11a, ch40, 26.5 GHz-40 GHz)

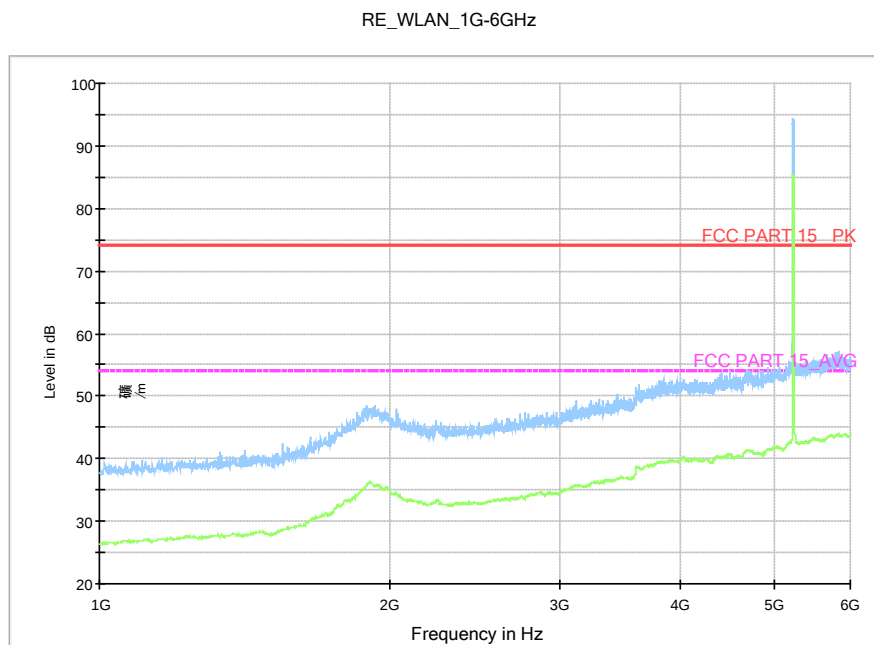


Fig. 20 Radiated Spurious Emission (802.11a, ch48, 1 GHz-6 GHz)

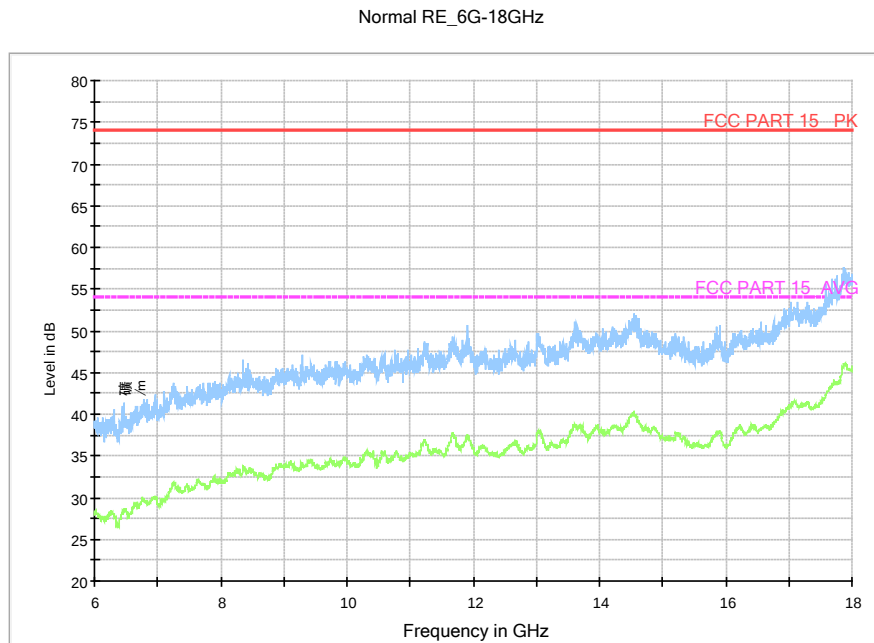


Fig. 21 Radiated Spurious Emission (802.11a, ch48, 6 GHz-18 GHz)

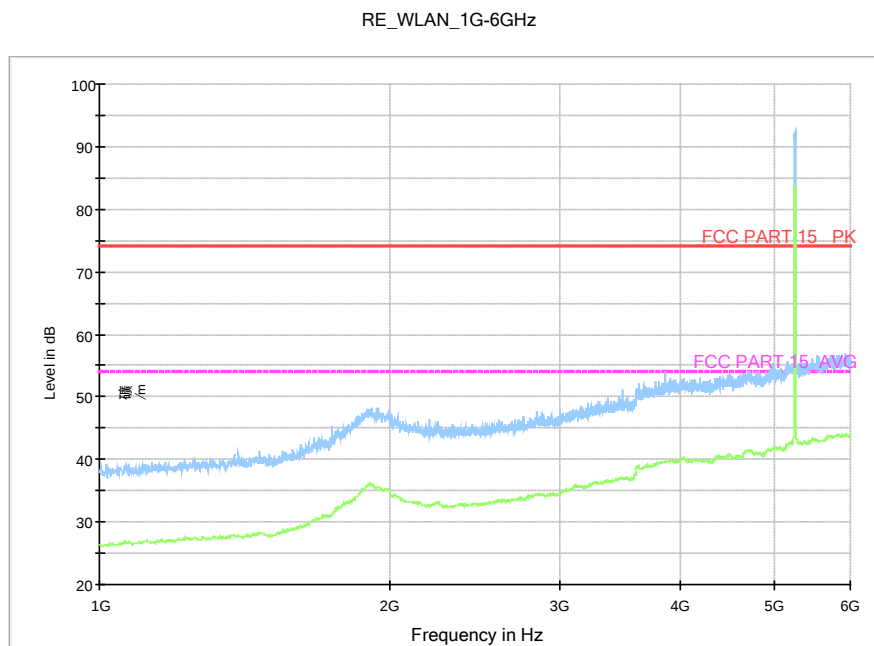


Fig. 22 Radiated Spurious Emission (802.11a, ch52, 1 GHz-6 GHz)

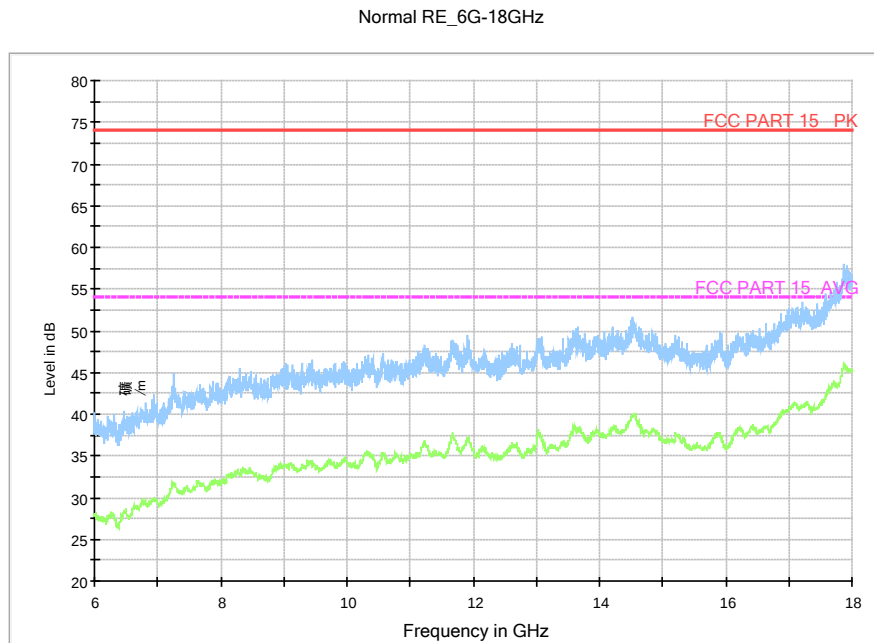


Fig. 23 Radiated Spurious Emission (802.11a, ch52, 6 GHz-18 GHz)

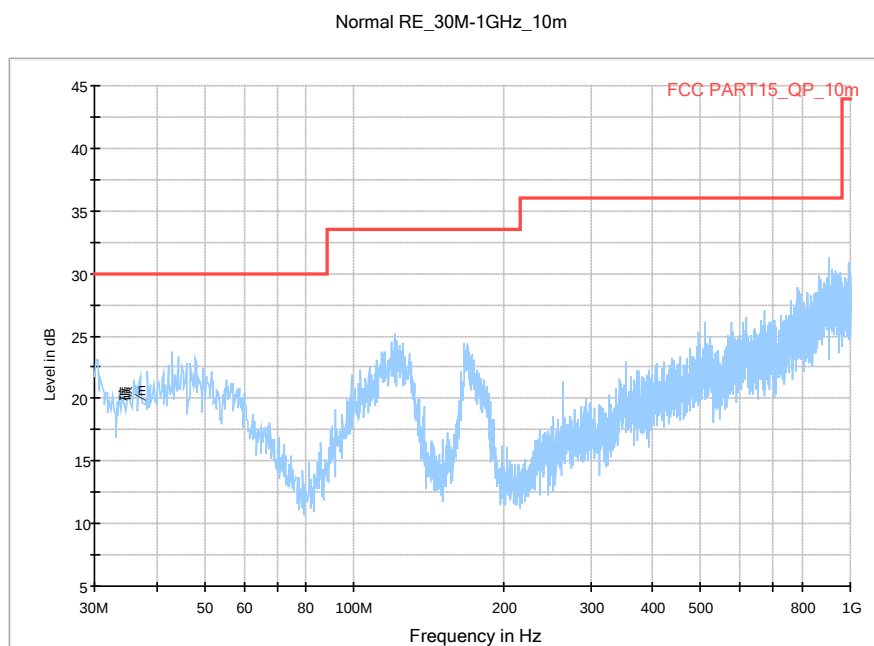


Fig. 24 Radiated Spurious Emission (802.11a, ch56, 30 MHz-1 GHz)

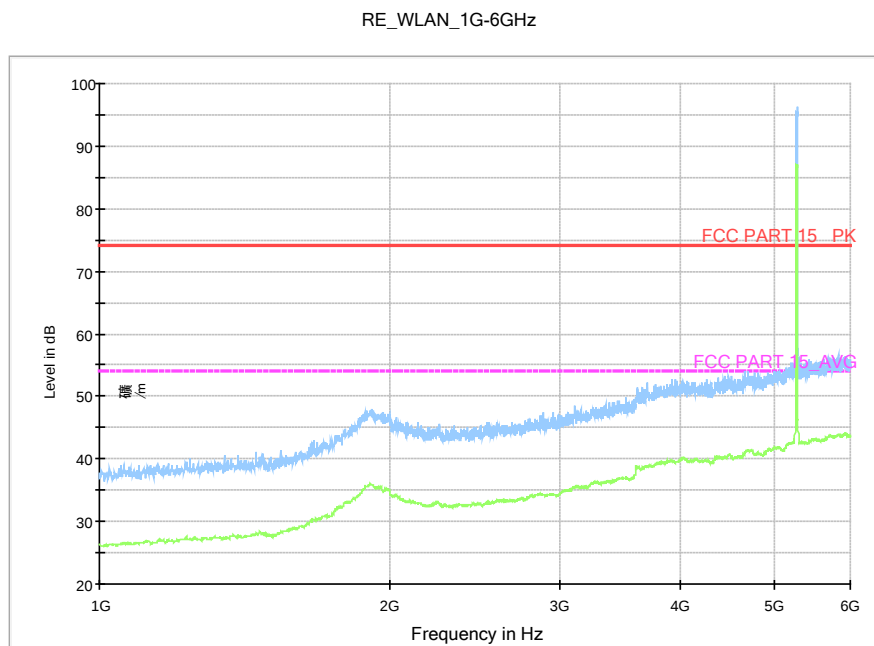


Fig. 25 Radiated Spurious Emission (802.11a, ch56, 1 GHz-6 GHz)

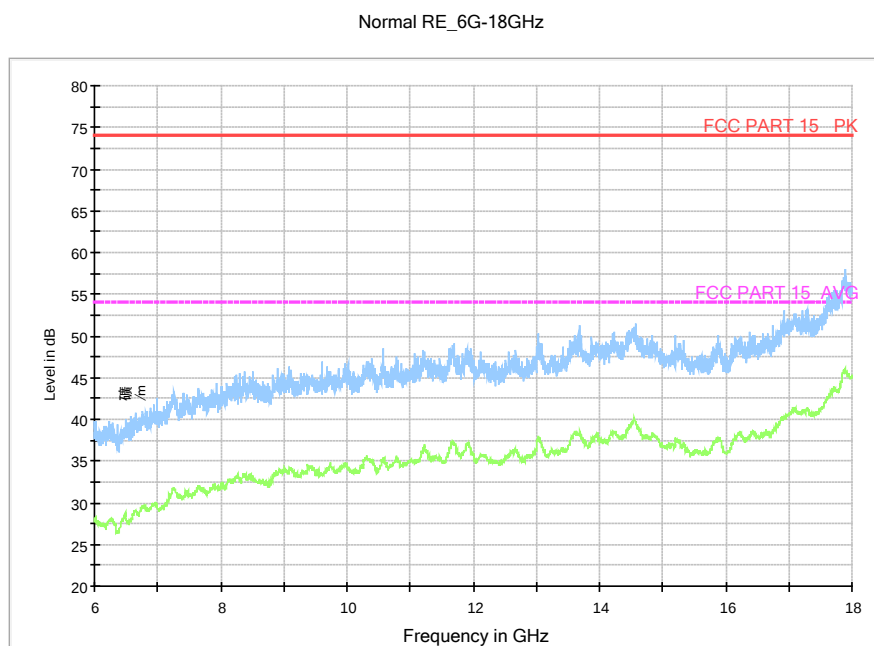


Fig. 26 Radiated Spurious Emission (802.11a, ch56, 6 GHz-18 GHz)

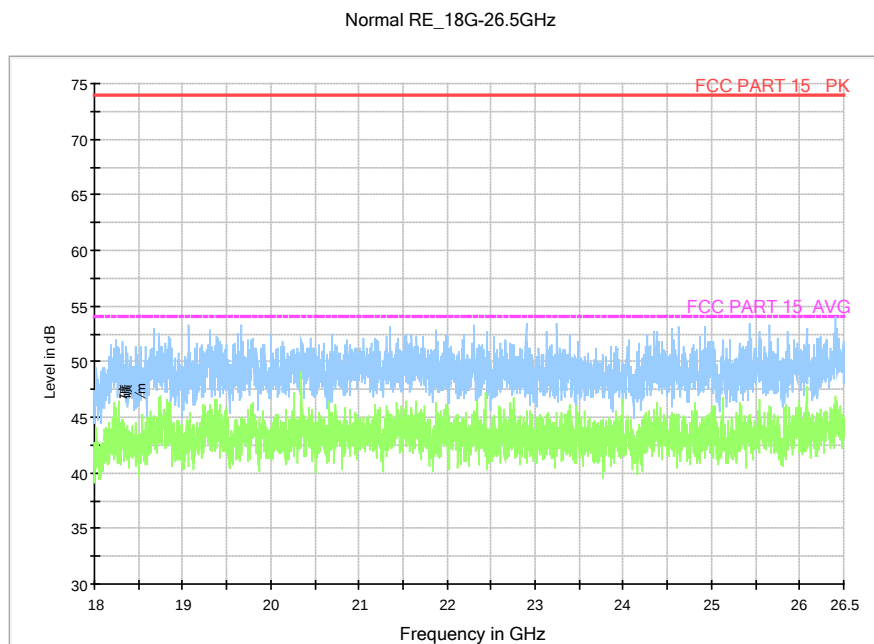


Fig. 27 Radiated Spurious Emission (802.11a, ch56, 18 GHz-26.5 GHz)

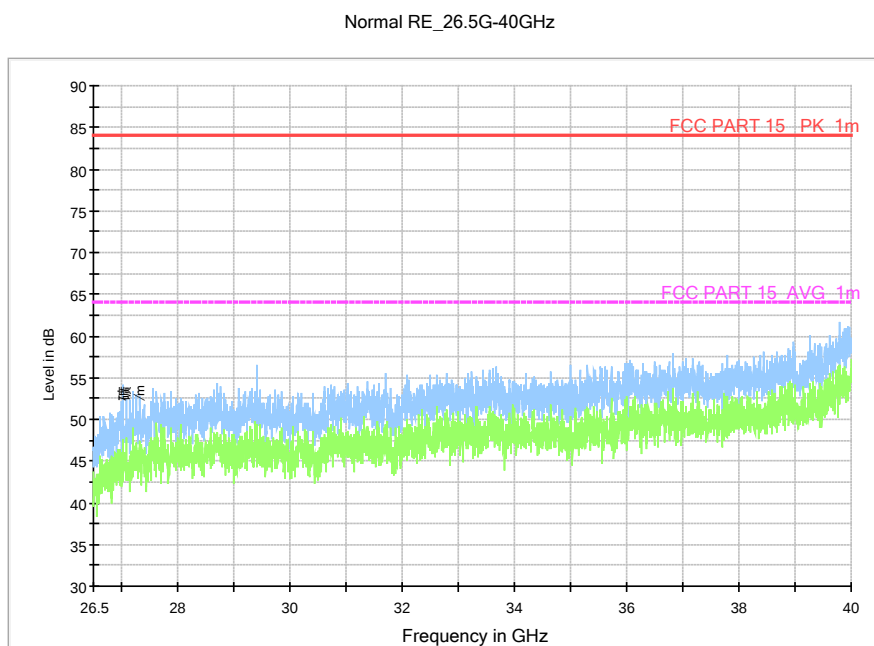


Fig. 28 Radiated Spurious Emission (802.11a, ch56, 26.5 GHz-40 GHz)

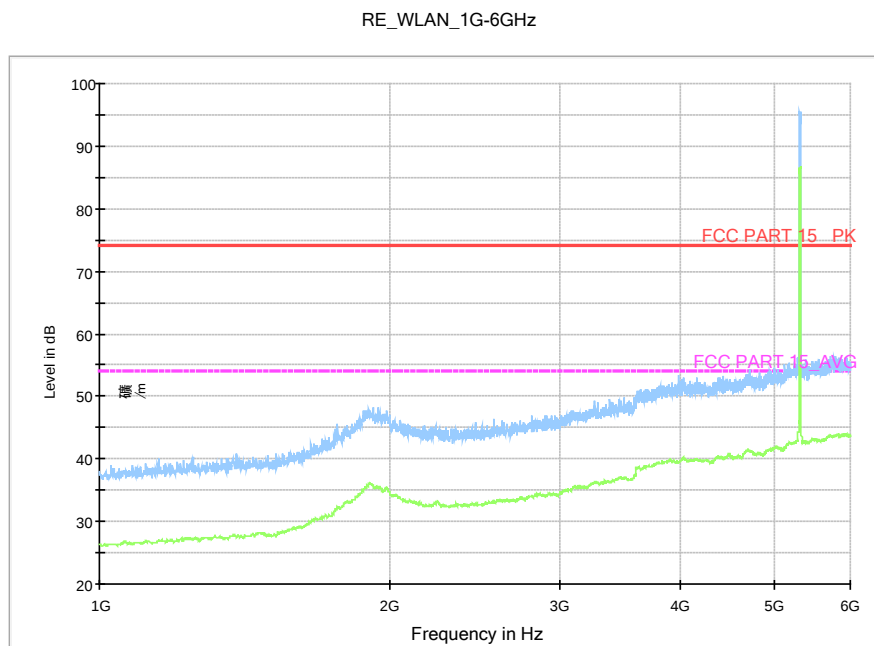


Fig. 29 Radiated Spurious Emission (802.11a, ch64, 1 GHz-6 GHz)

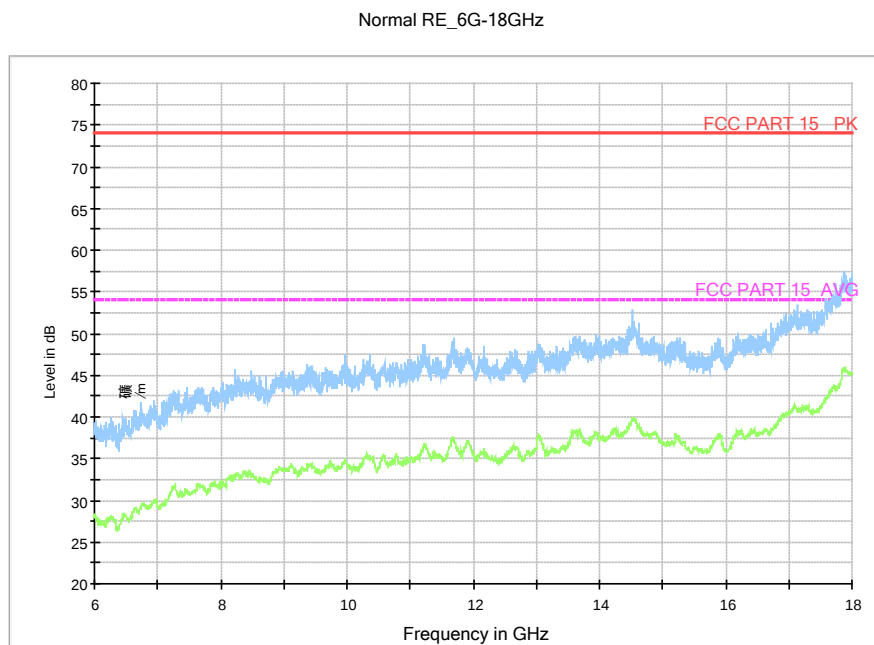


Fig. 30 Radiated Spurious Emission (802.11a, ch64, 6 GHz-18 GHz)

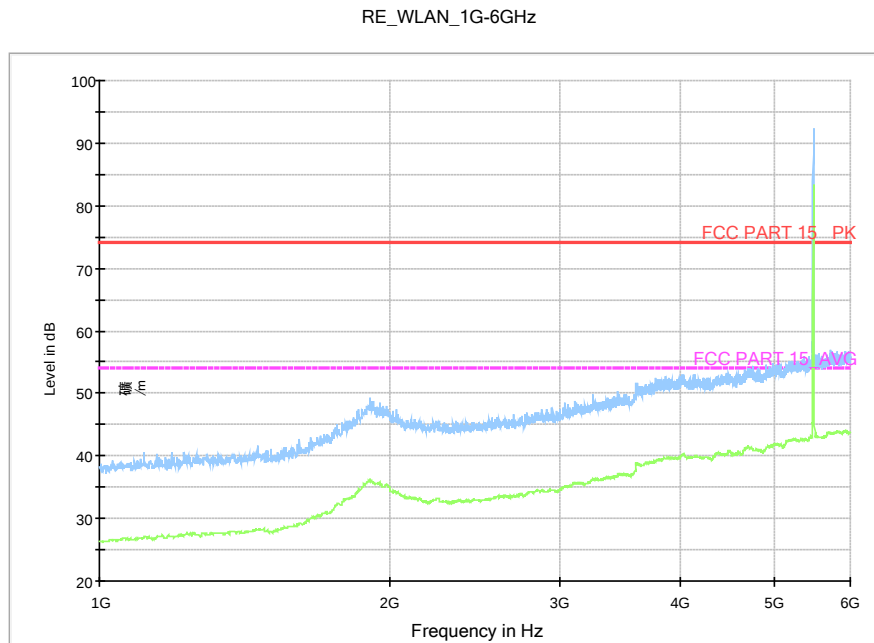


Fig. 31 Radiated Spurious Emission (802.11a, ch100, 1 GHz-6 GHz)

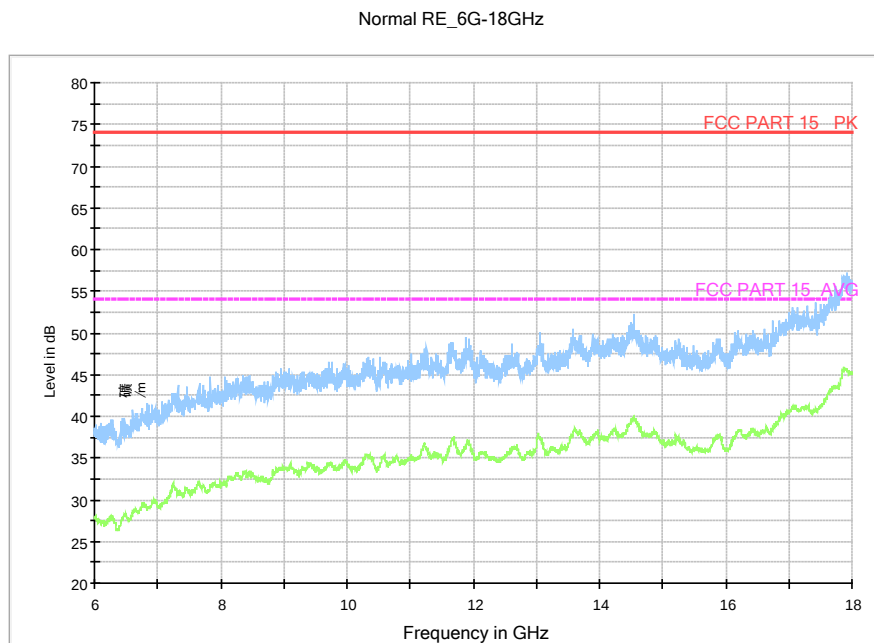


Fig. 32 Radiated Spurious Emission (802.11a, ch100, 6 GHz-18 GHz)

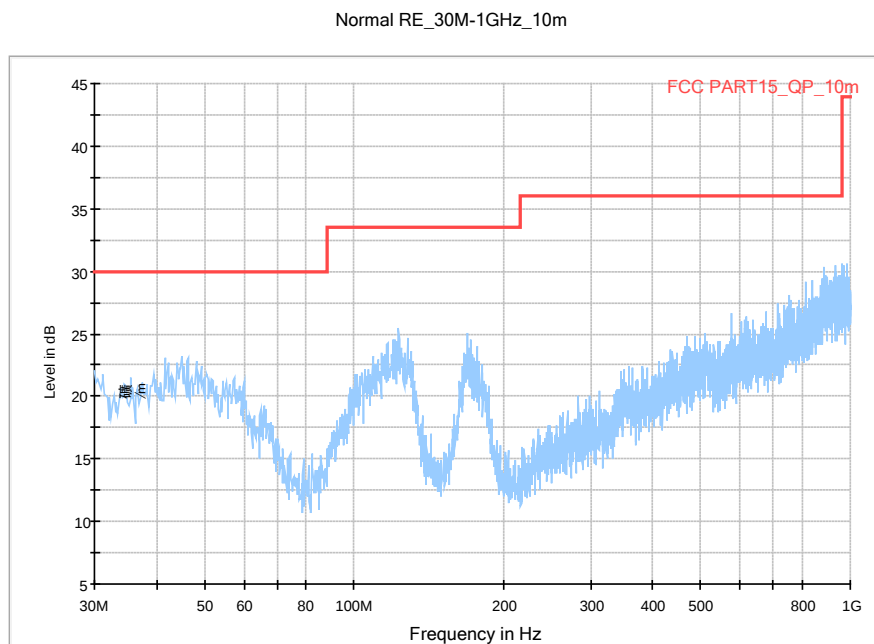


Fig. 33 Radiated Spurious Emission (802.11a, ch120, 30 MHz-1 GHz)

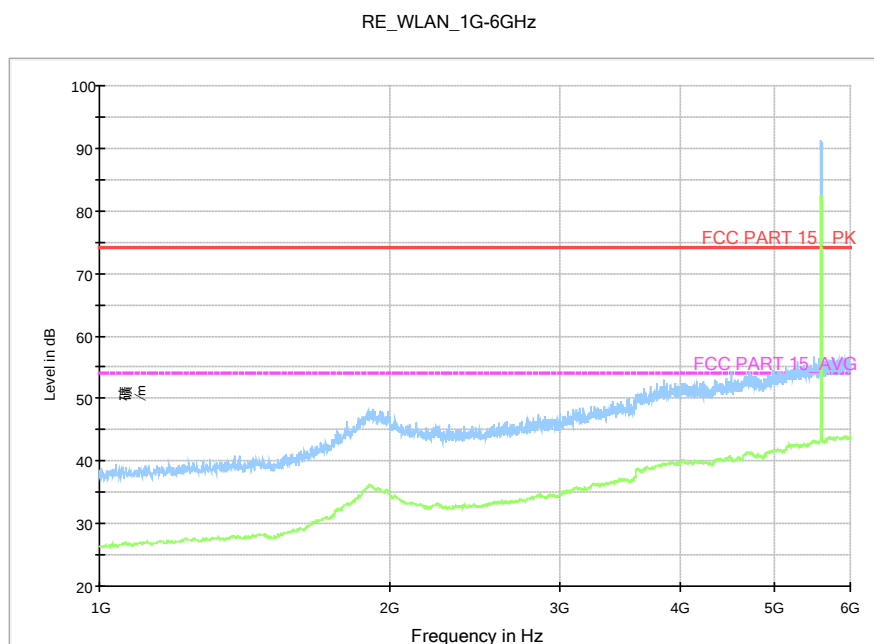


Fig. 34 Radiated Spurious Emission (802.11a, ch120, 1 GHz-6 GHz)

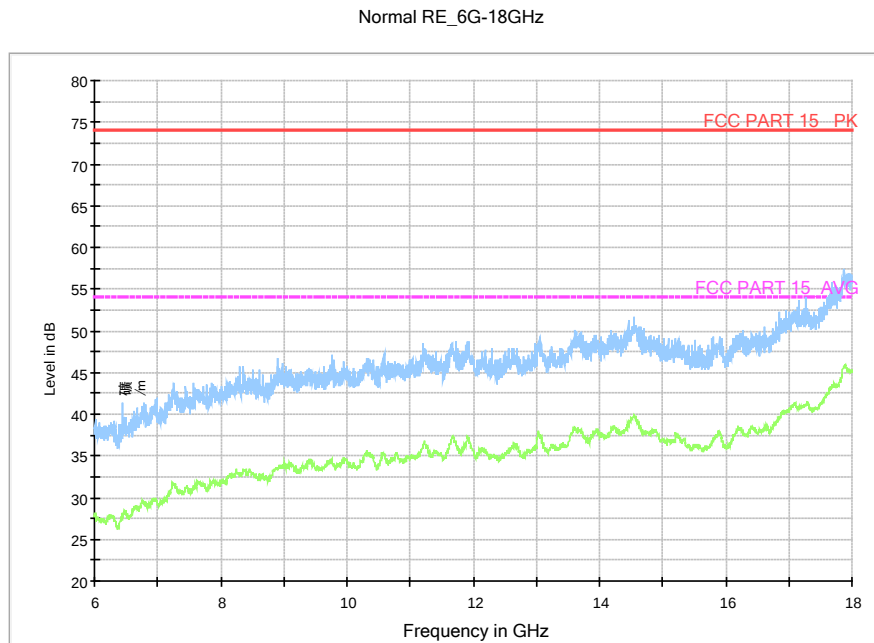


Fig. 35 Radiated Spurious Emission (802.11a, ch120, 6 GHz-18 GHz)

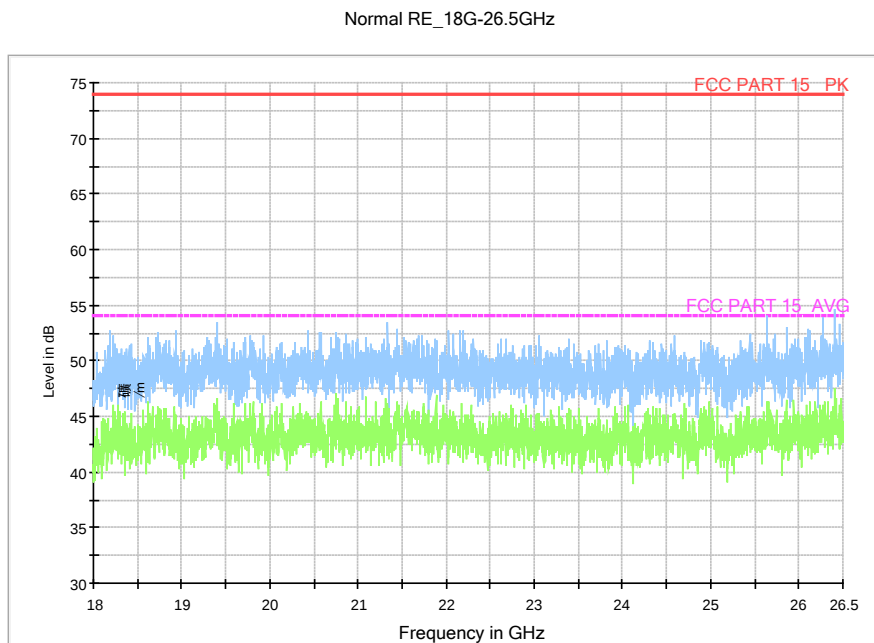


Fig. 36 Radiated Spurious Emission (802.11a, ch120, 18 GHz-26.5 GHz)

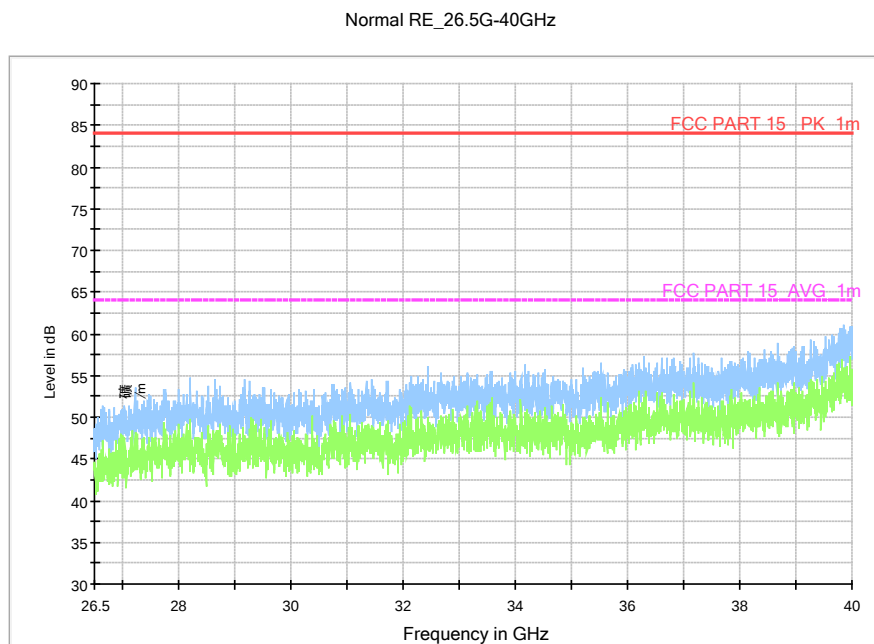


Fig. 37 Radiated Spurious Emission (802.11a, ch120, 26.5 GHz-40 GHz)

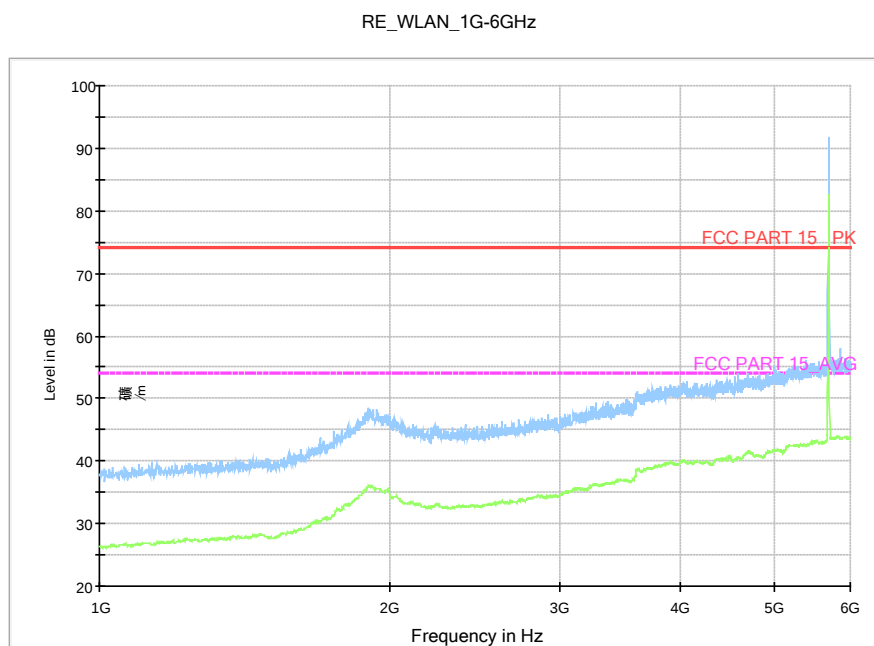


Fig. 38 Radiated Spurious Emission (802.11a, ch140, 1 GHz-6 GHz)

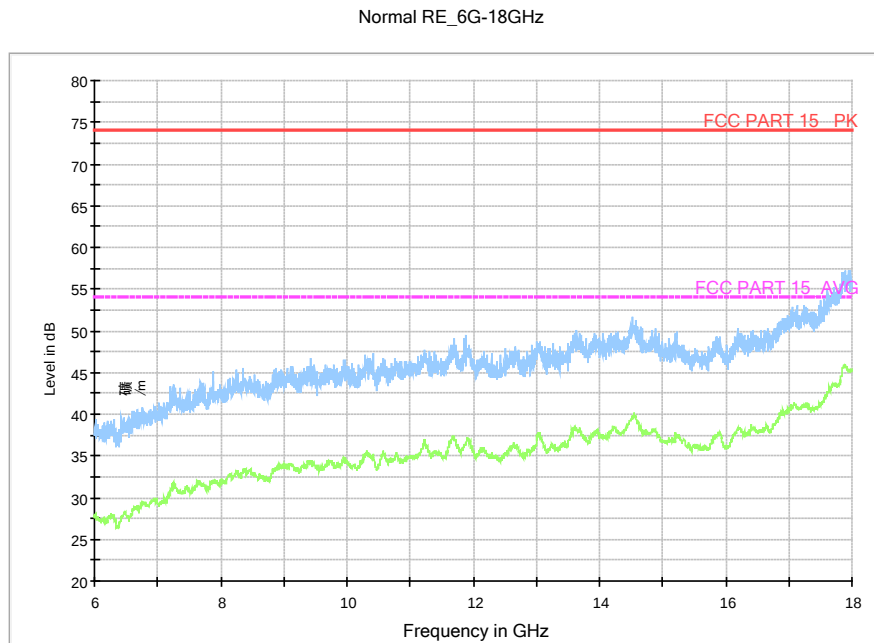


Fig. 39 Radiated Spurious Emission (802.11a, ch140, 6 GHz-18 GHz)

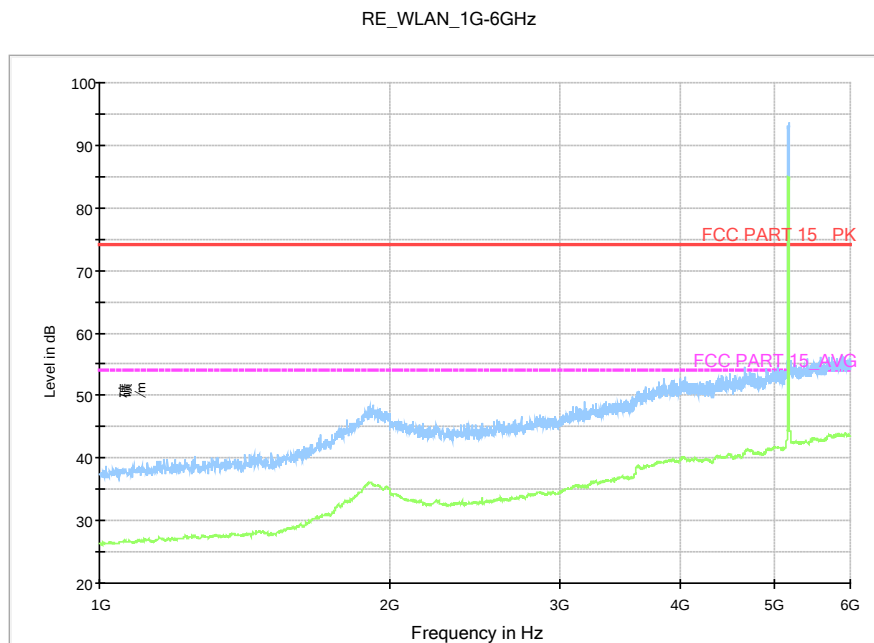


Fig. 40 Radiated Spurious Emission (802.11n-HT20, ch36, 1 GHz-6 GHz)

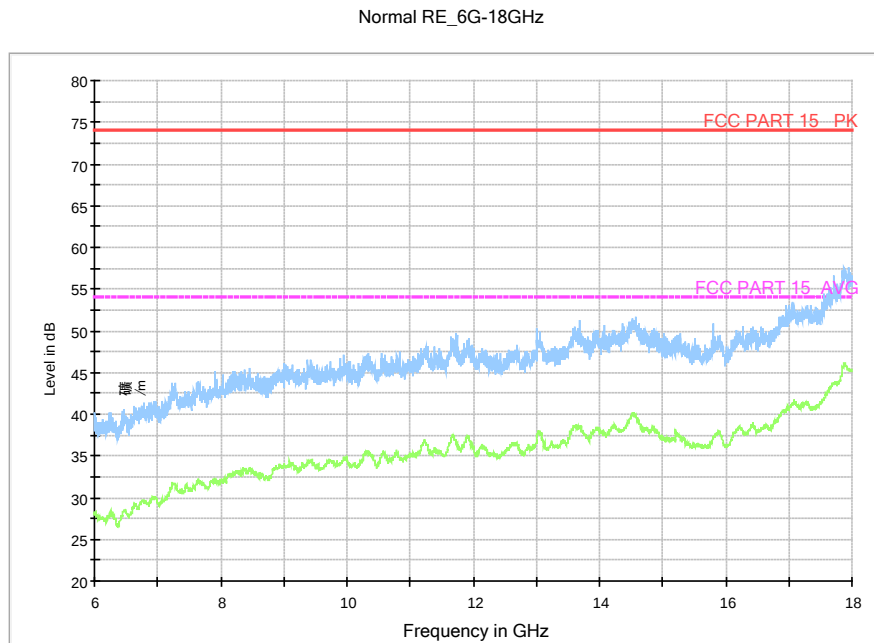


Fig. 41 Radiated Spurious Emission (802.11n-HT20, ch36, 6 GHz-18 GHz)

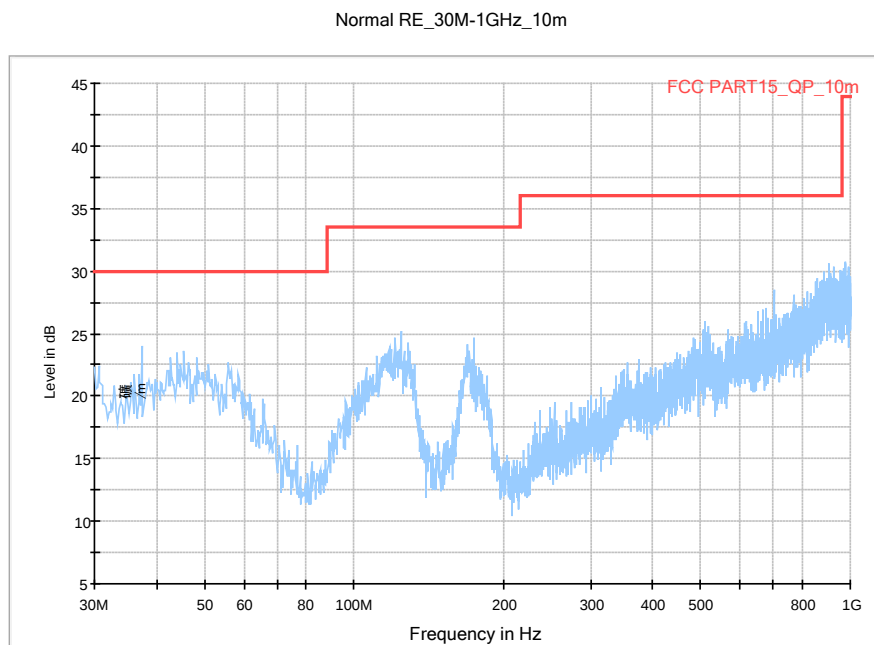


Fig. 42 Radiated Spurious Emission (802.11n-HT20, ch40, 30 MHz-1 GHz)

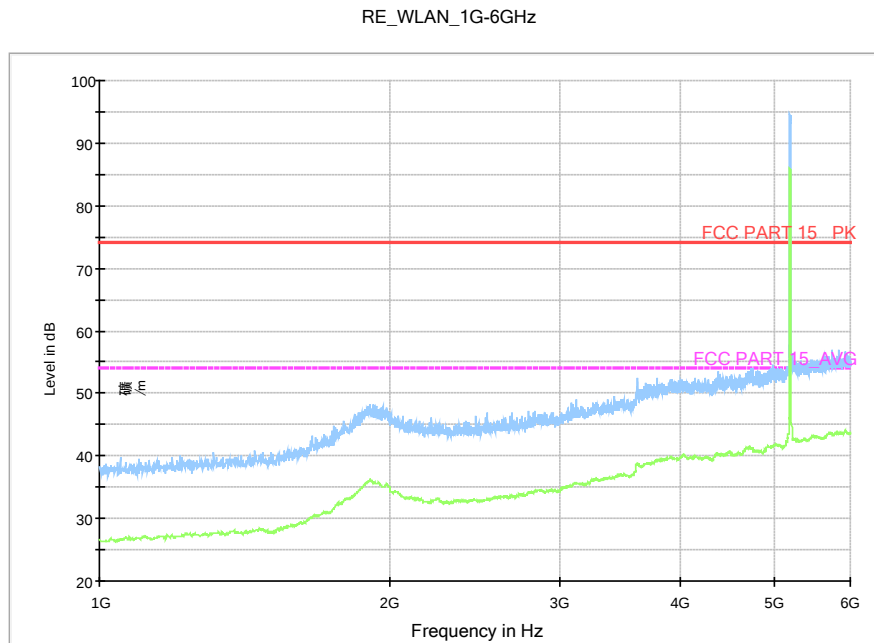


Fig. 43 Radiated Spurious Emission (802.11n-HT20, ch40, 1 GHz-6 GHz)

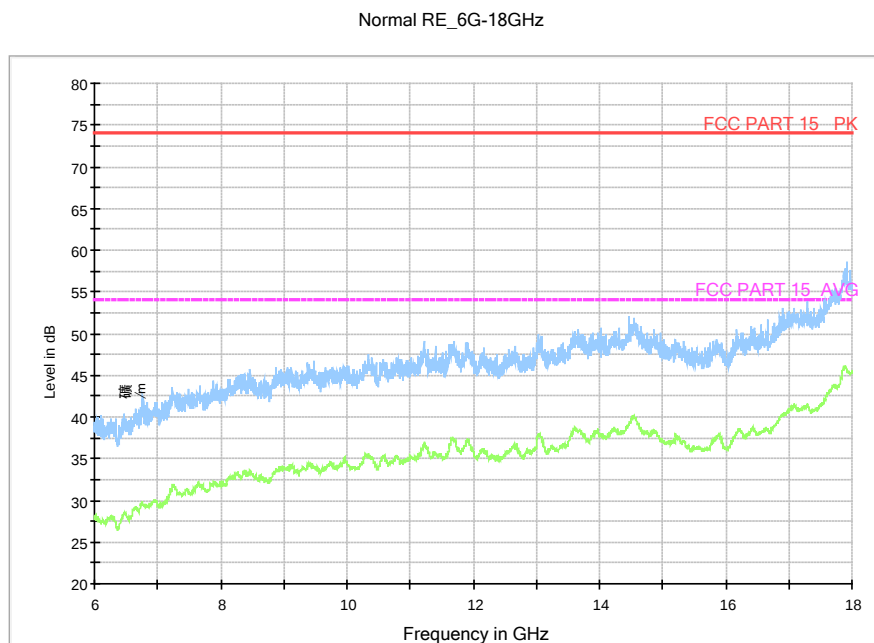


Fig. 44 Radiated Spurious Emission (802.11n-HT20, ch40, 6 GHz-18 GHz)

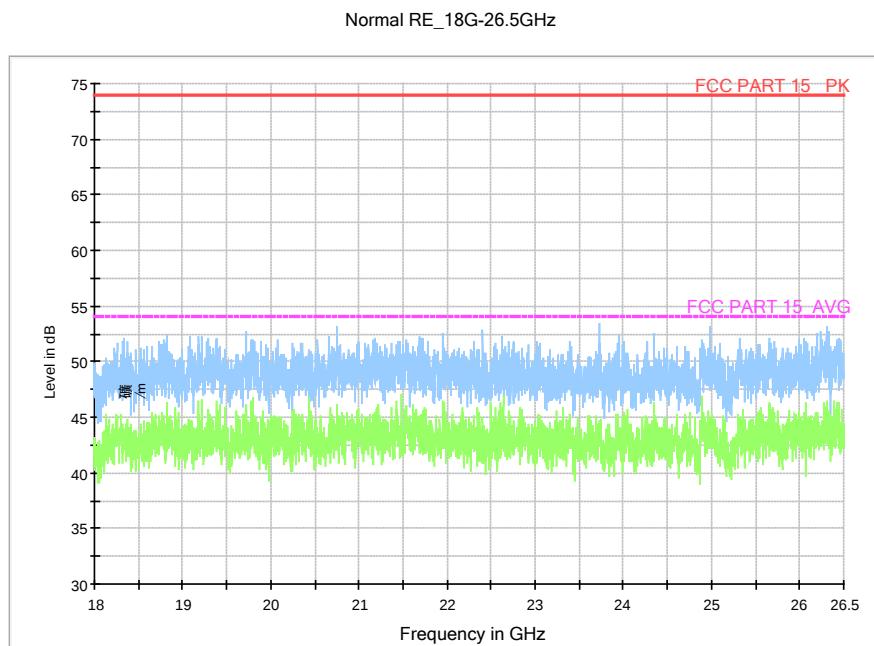


Fig. 45 Radiated Spurious Emission (802.11n-HT20, ch40, 18 GHz-26.5 GHz)

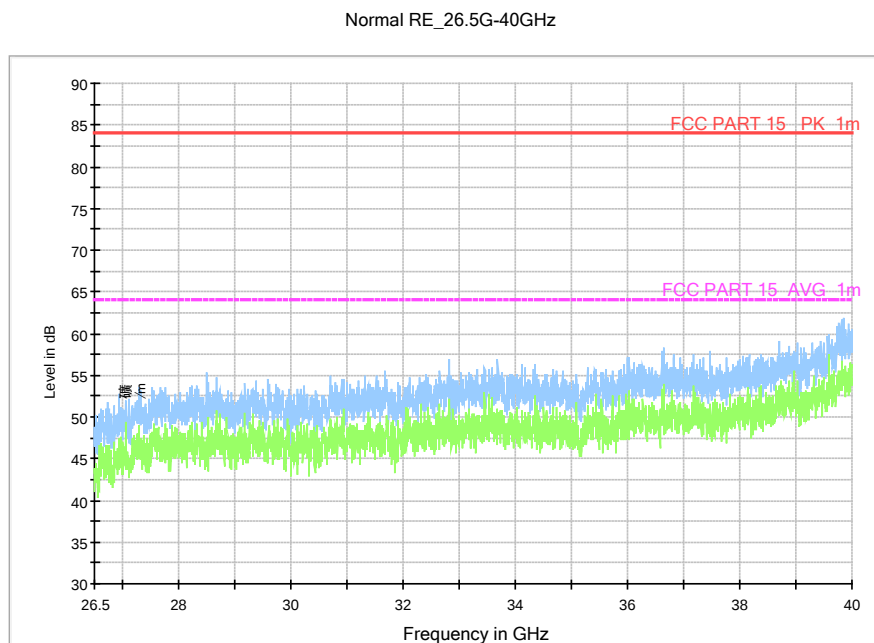


Fig. 46 Radiated Spurious Emission (802.11n-HT20, ch40, 26.5 GHz-40 GHz)

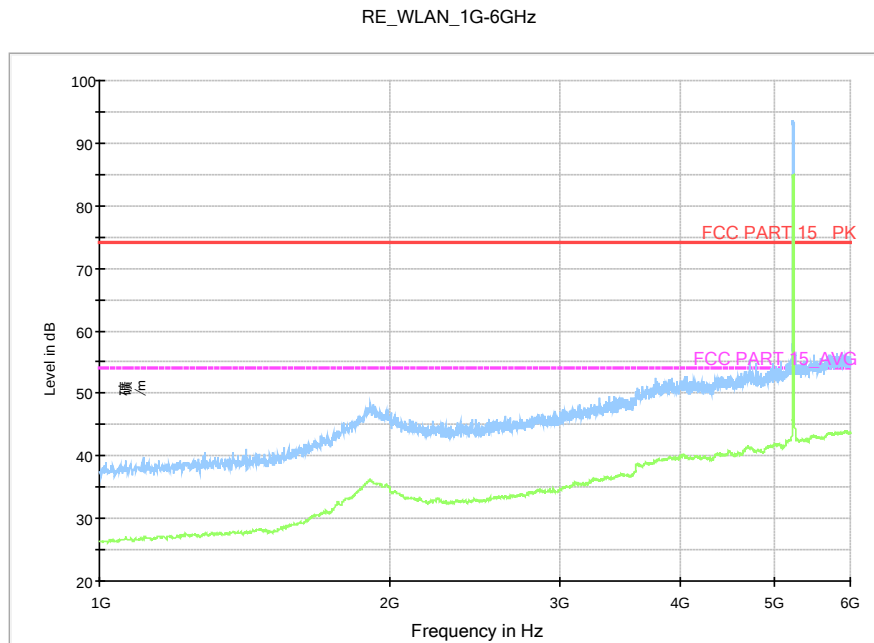


Fig. 47 Radiated Spurious Emission (802.11n-HT20, ch48, 1 GHz-6 GHz)

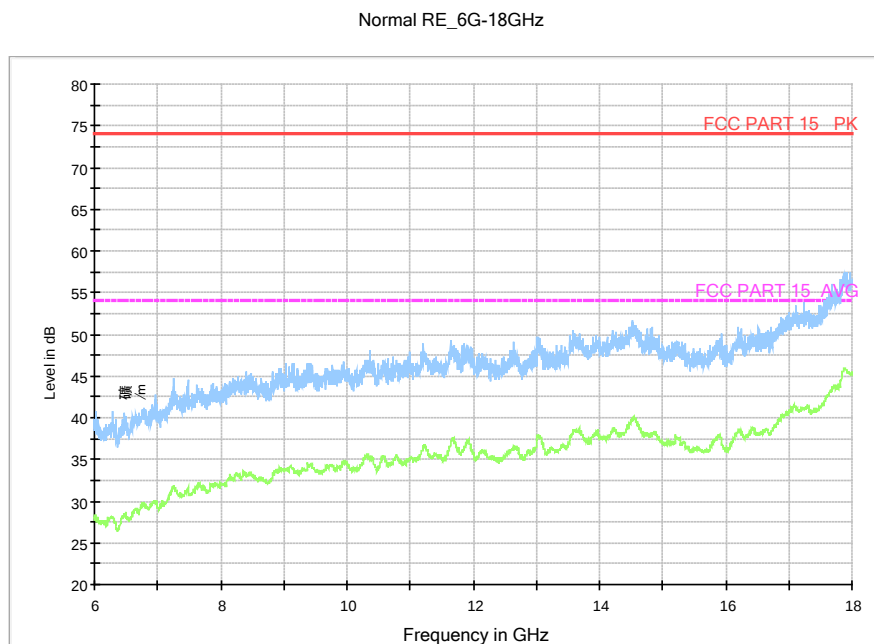


Fig. 48 Radiated Spurious Emission (802.11n-HT20, ch48, 6 GHz-18 GHz)

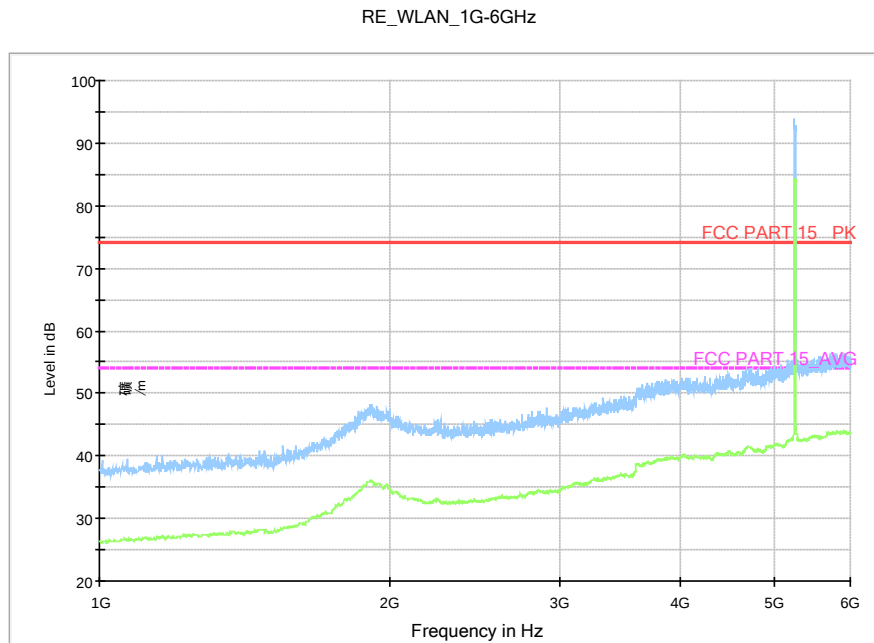


Fig. 49 Radiated Spurious Emission (802.11n-HT20, ch52, 1 GHz-6 GHz)

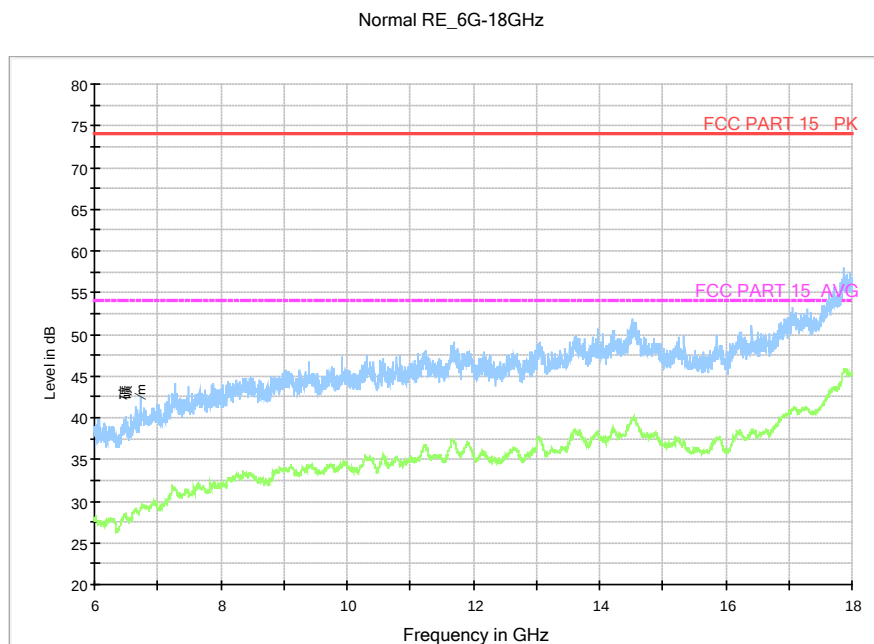


Fig. 50 Radiated Spurious Emission (802.11n-HT20, ch52, 6 GHz-18 GHz)

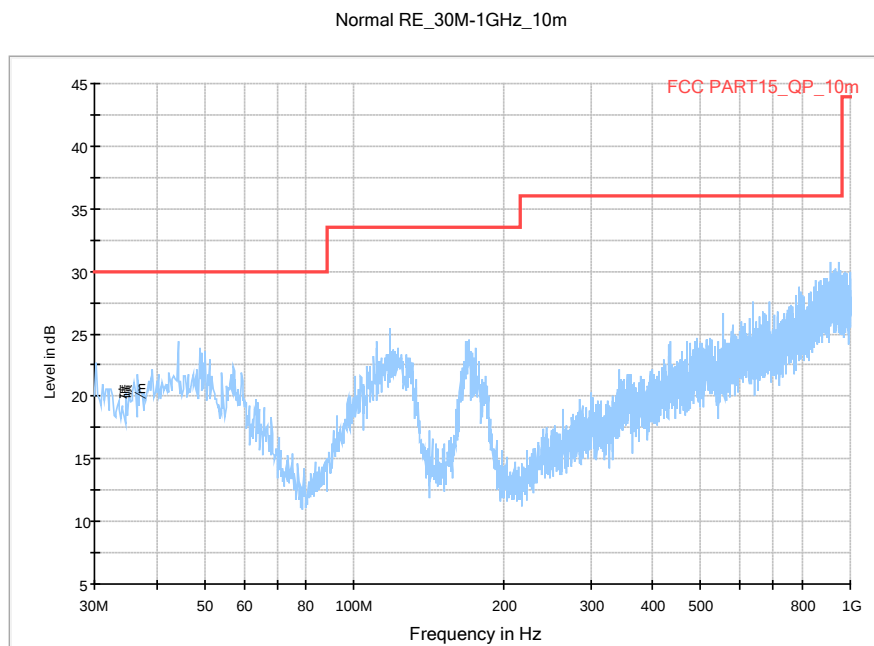


Fig. 51 Radiated Spurious Emission (802.11n-HT20, ch56, 30 MHz-1 GHz)

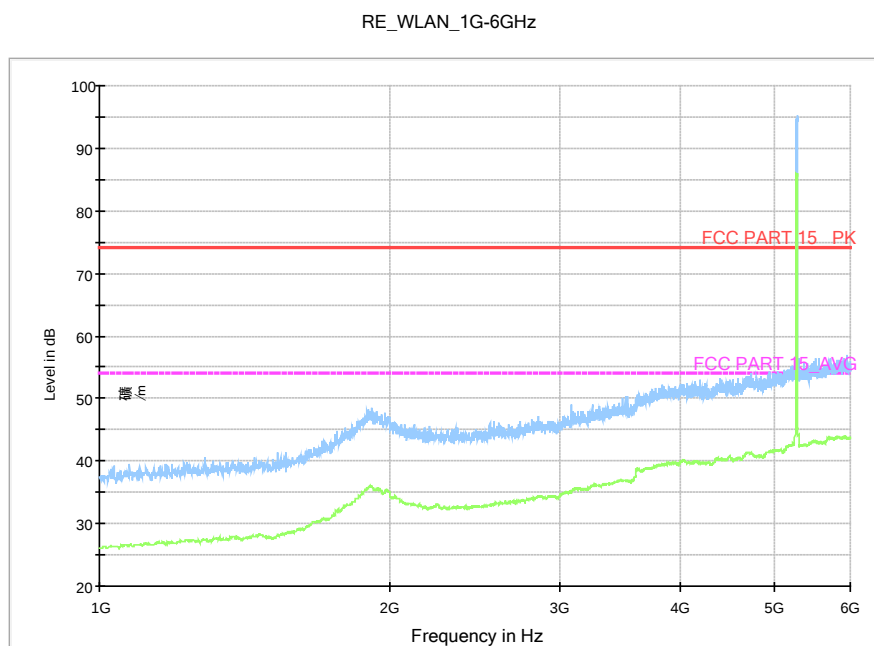


Fig. 52 Radiated Spurious Emission (802.11n-HT20, ch56, 1 GHz-6 GHz)

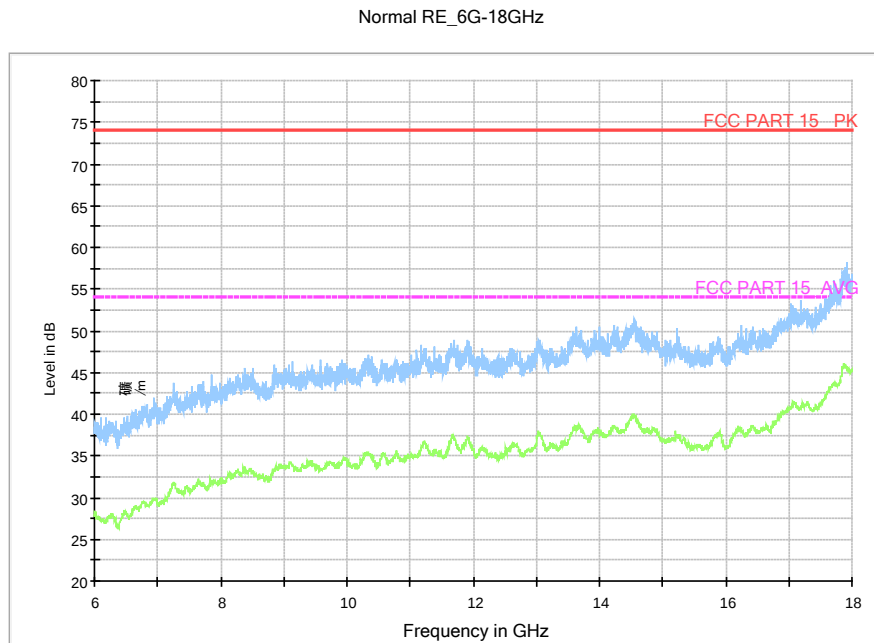


Fig. 53 Radiated Spurious Emission (802.11n-HT20, ch56, 6 GHz-18 GHz)

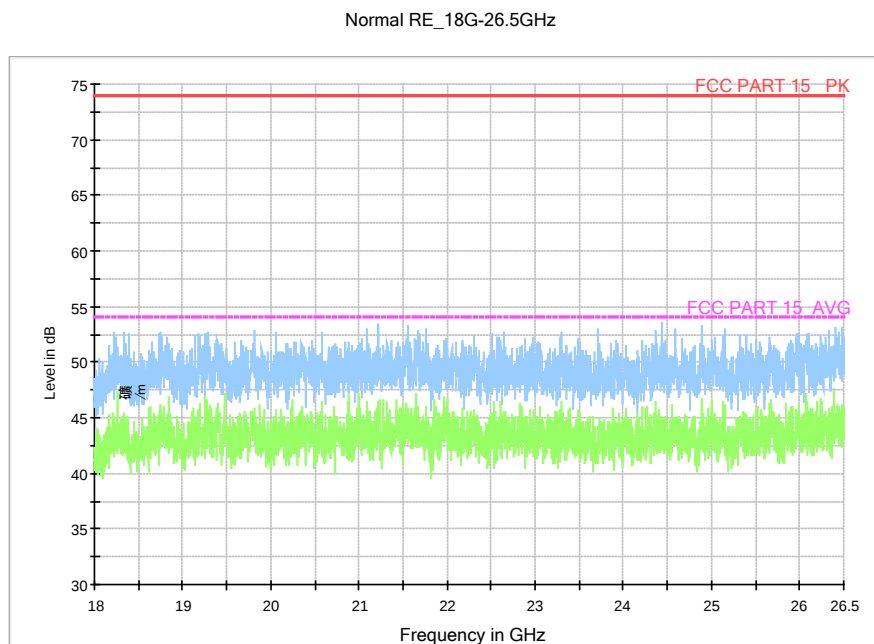


Fig. 54 Radiated Spurious Emission (802.11n-HT20, ch56, 18 GHz-26.5 GHz)

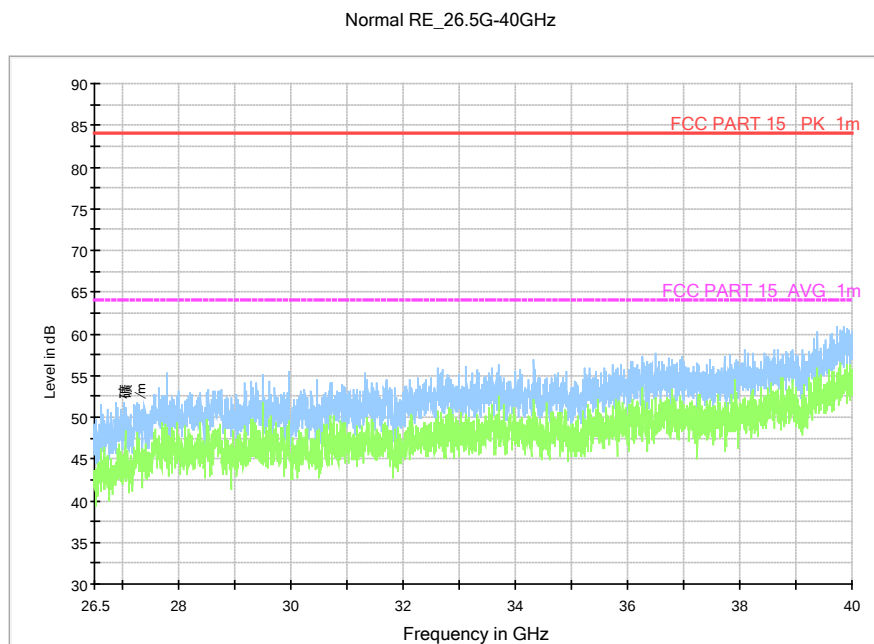


Fig. 55 Radiated Spurious Emission (802.11n-HT20, ch56, 26.5 GHz-40 GHz)

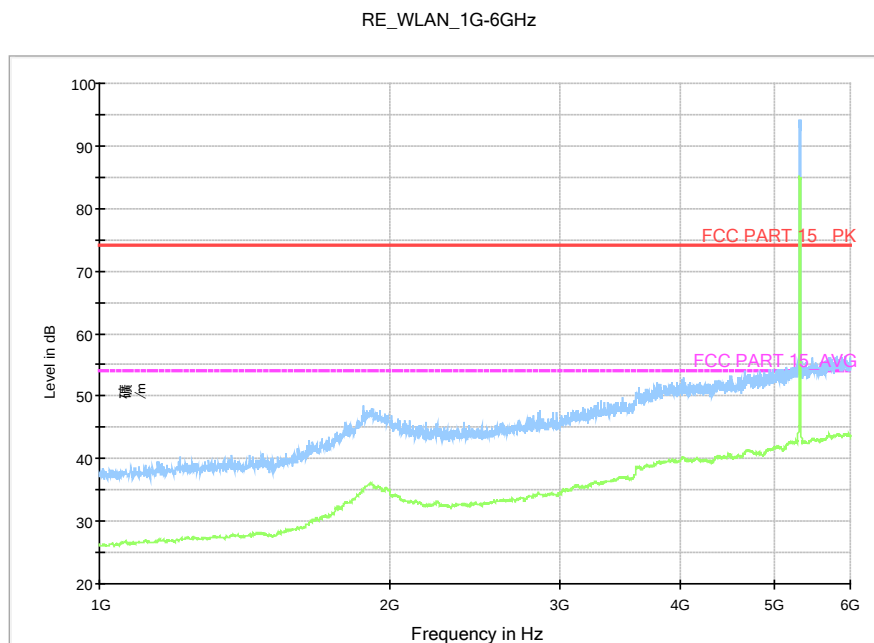


Fig. 56 Radiated Spurious Emission (802.11n-HT20, ch64, 1 GHz-6 GHz)

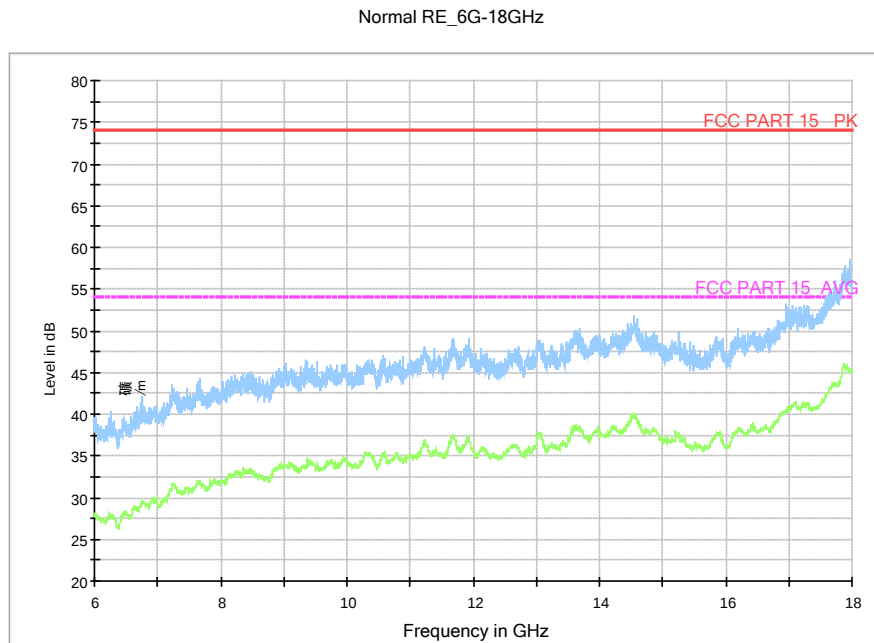


Fig. 57 Radiated Spurious Emission (802.11n-HT20, ch64, 6 GHz-18 GHz)

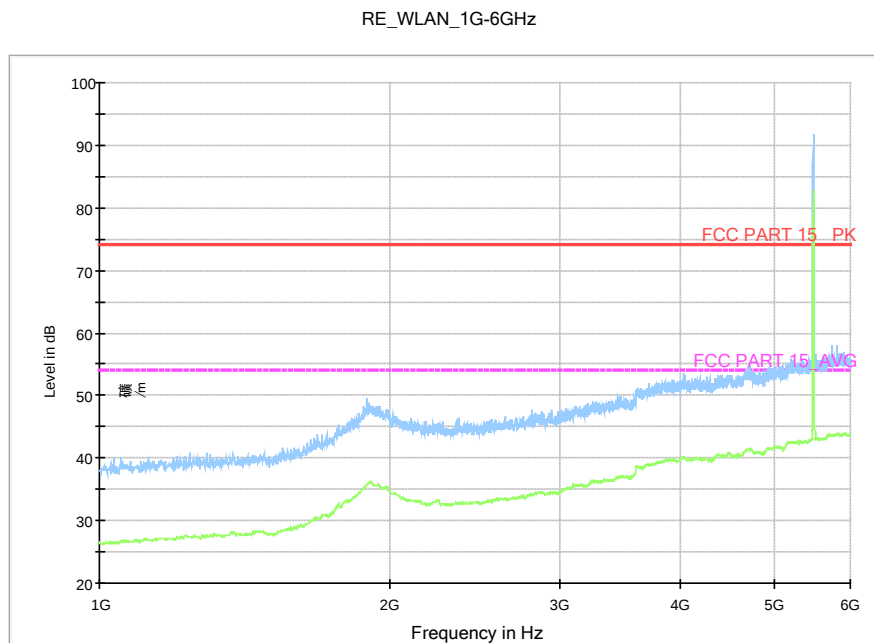


Fig. 58 Radiated Spurious Emission (802.11n-HT20, ch100, 1 GHz-6 GHz)

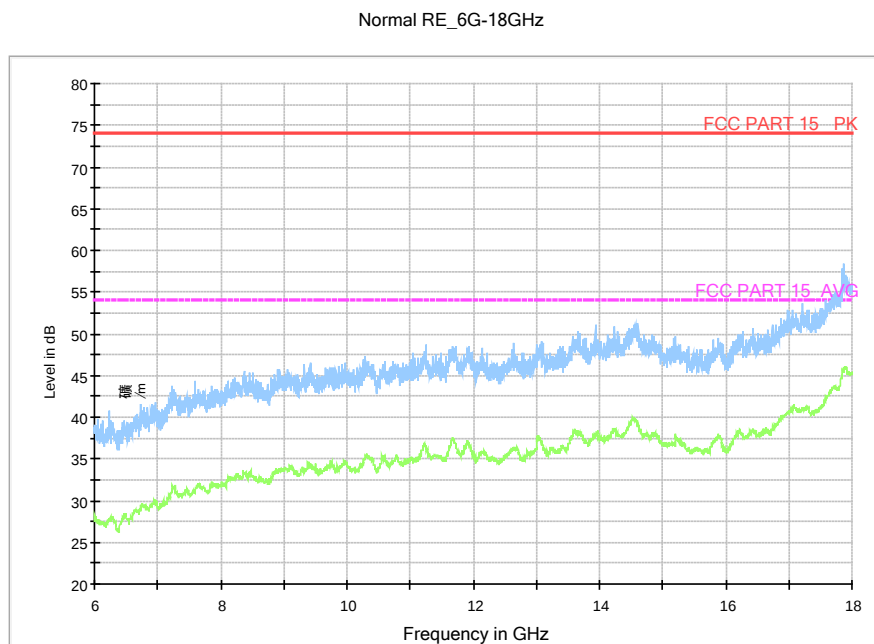


Fig. 59 Radiated Spurious Emission (802.11n-HT20, ch100, 6 GHz-18 GHz)

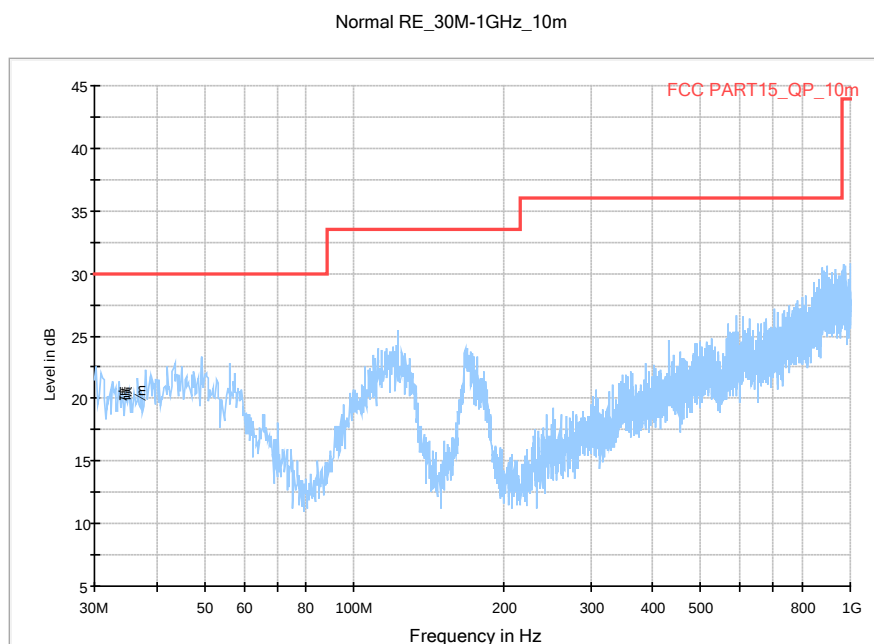


Fig. 60 Radiated Spurious Emission (802.11n-HT20, ch120, 30 MHz-1 GHz)

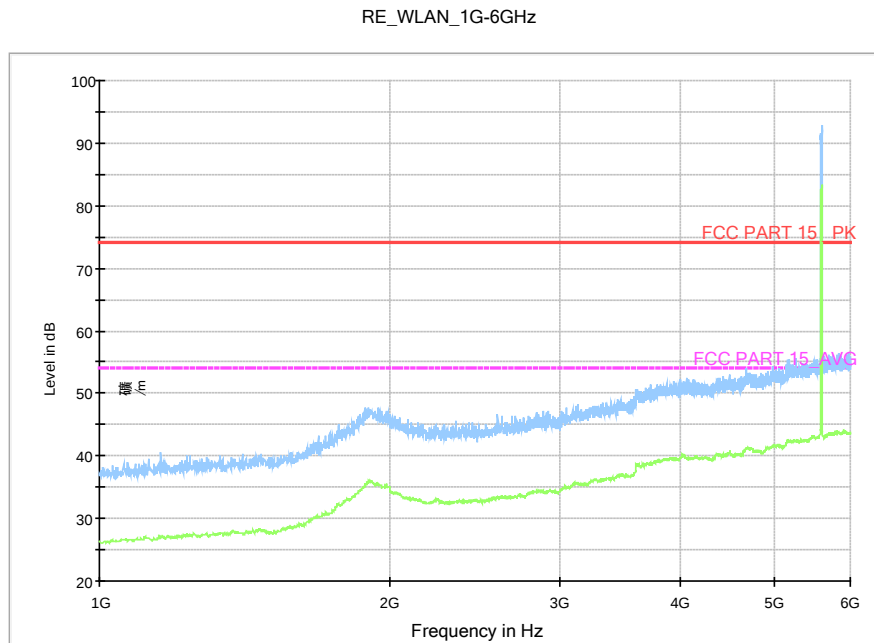


Fig. 61 Radiated Spurious Emission (802.11n-HT20, ch120, 1 GHz-6 GHz)

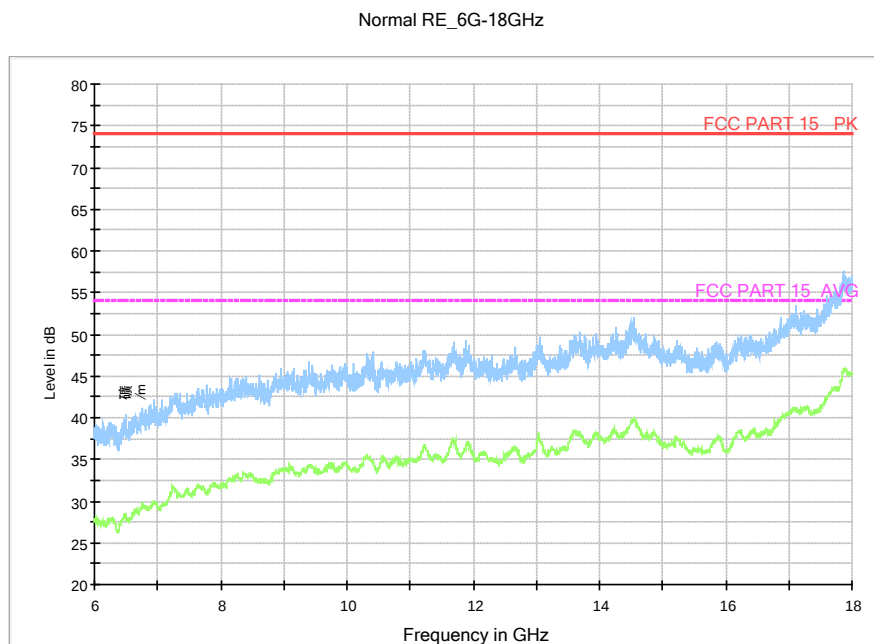


Fig. 62 Radiated Spurious Emission (802.11n-HT20, ch120, 6 GHz-18 GHz)

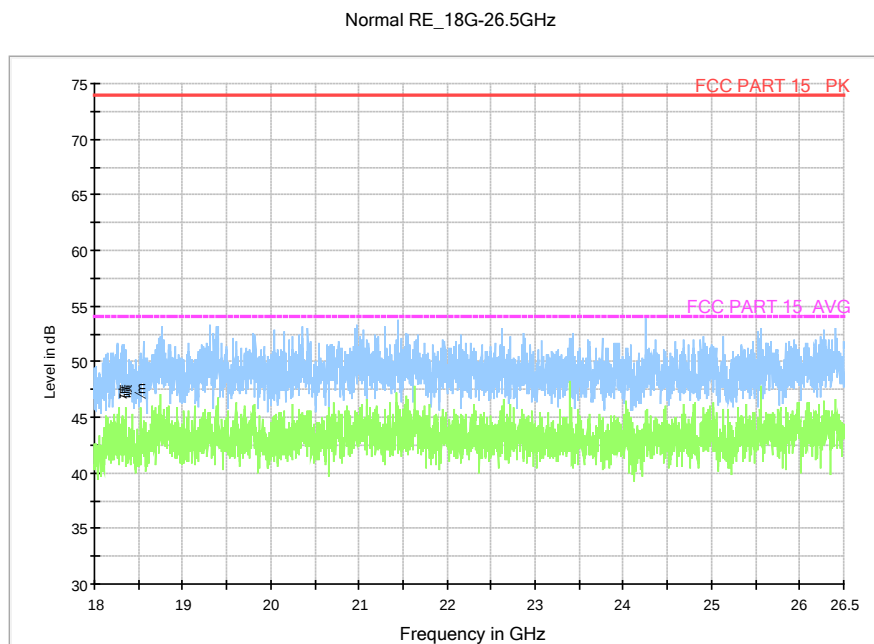


Fig. 63 Radiated Spurious Emission (802.11n-HT20, ch120, 18 GHz-26.5 GHz)

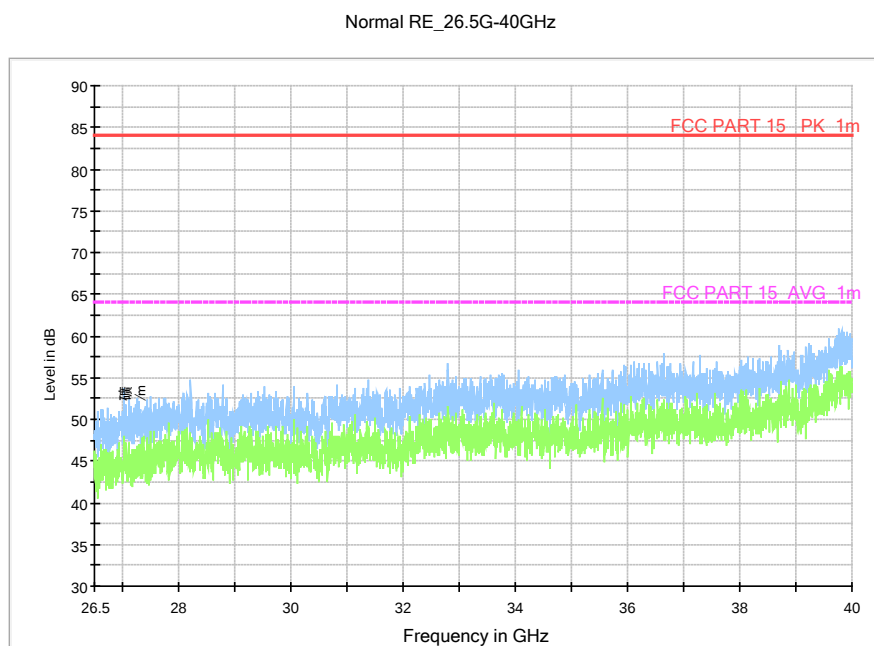


Fig. 64 Radiated Spurious Emission (802.11n-HT20, ch120, 26.5 GHz-40 GHz)

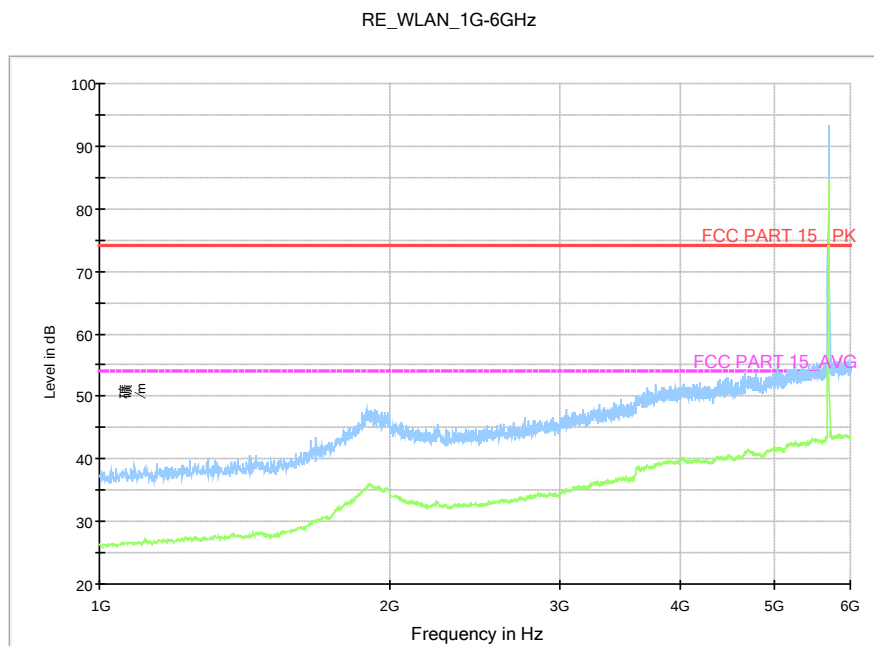


Fig. 65 Radiated Spurious Emission (802.11n-HT20, ch140, 1 GHz-6 GHz)

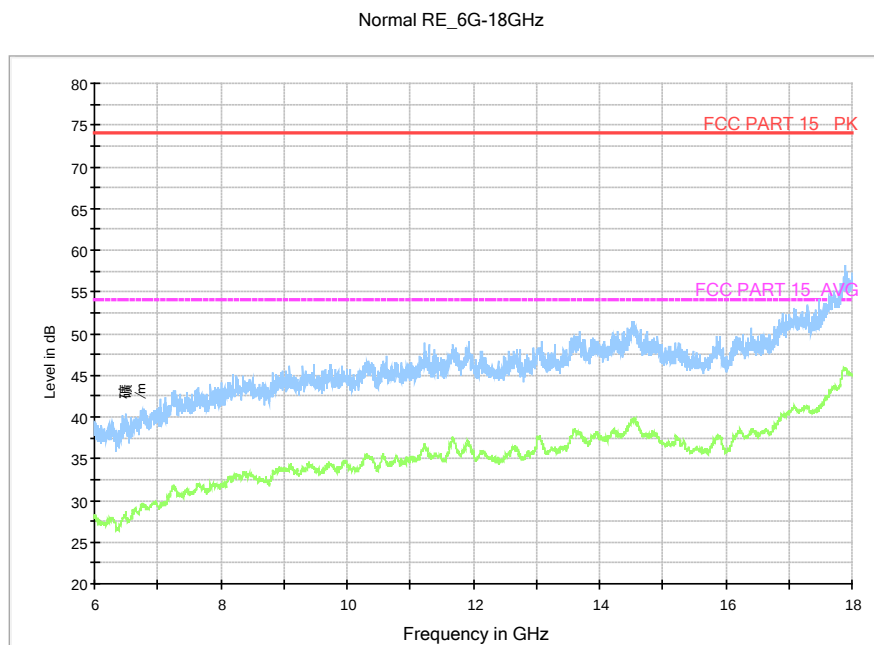


Fig. 66 Radiated Spurious Emission (802.11n-HT20, ch140, 6 GHz-18 GHz)

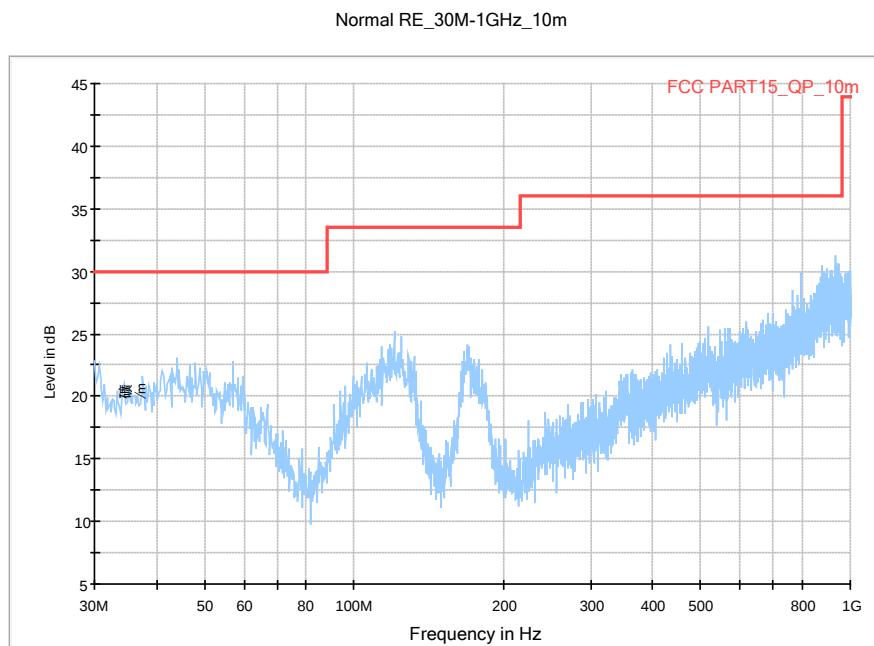


Fig. 67 Radiated Spurious Emission (802.11n-HT40, ch38, 30 MHz-1 GHz)

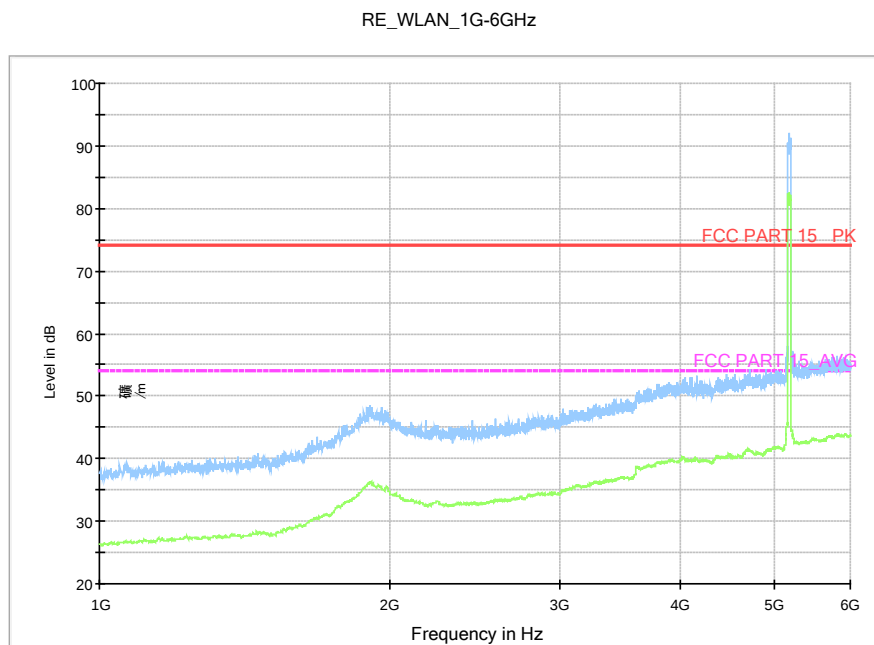


Fig. 68 Radiated Spurious Emission (802.11n-HT40, ch38, 1 GHz-6 GHz)

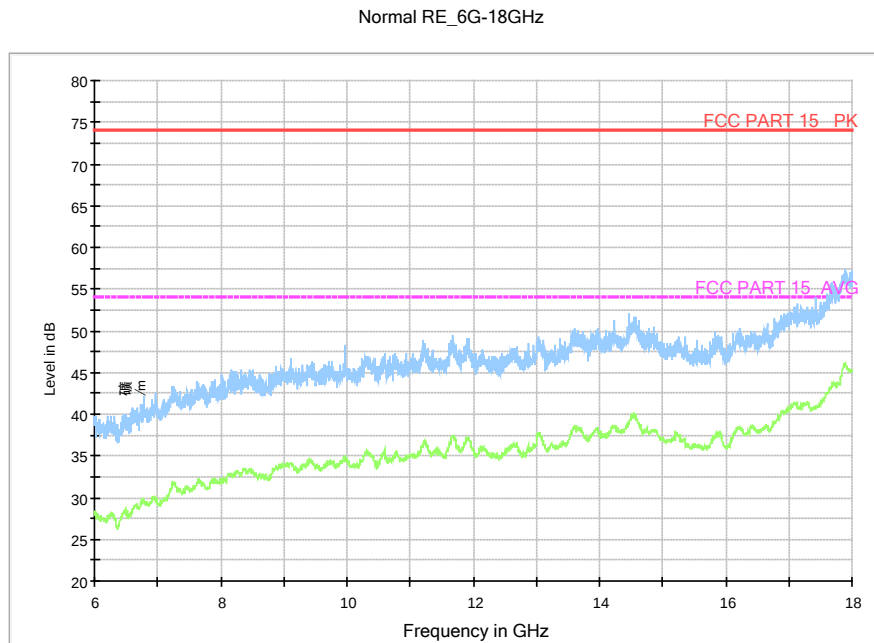


Fig. 69 Radiated Spurious Emission (802.11n-HT40, ch38, 6 GHz-18 GHz)

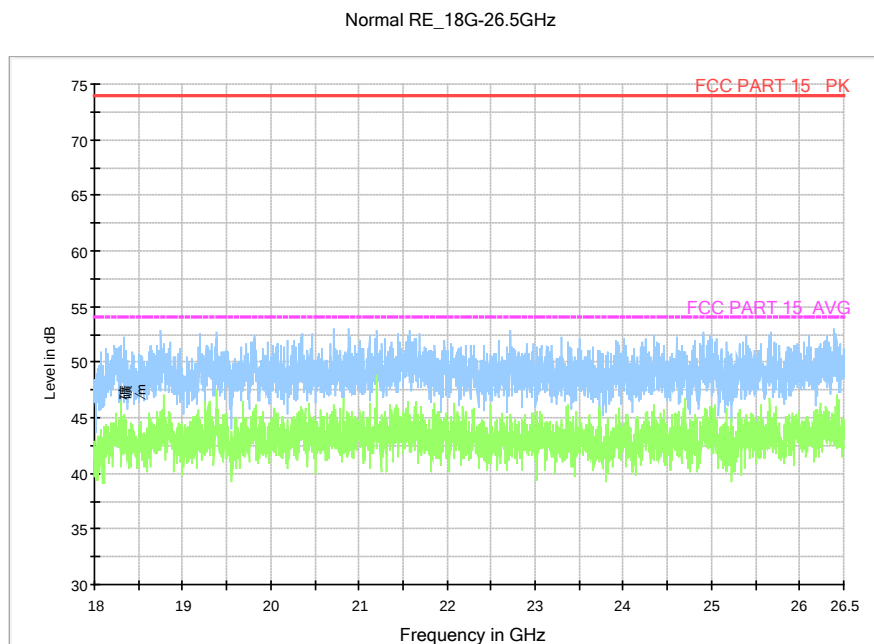


Fig. 70 Radiated Spurious Emission (802.11n-HT40, ch38, 18 GHz-26.5 GHz)

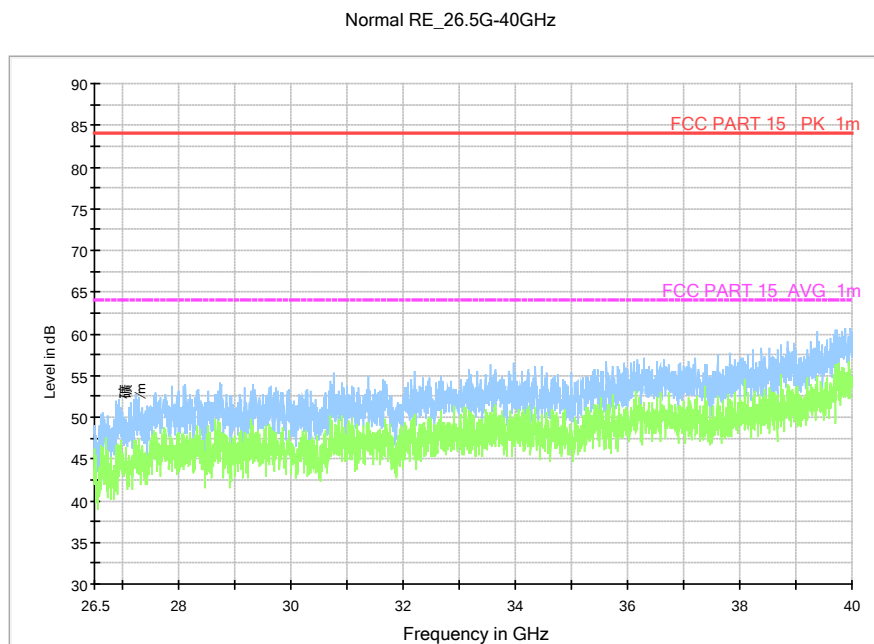


Fig. 71 Radiated Spurious Emission (802.11n-HT40, ch38, 26.5 GHz-40 GHz)

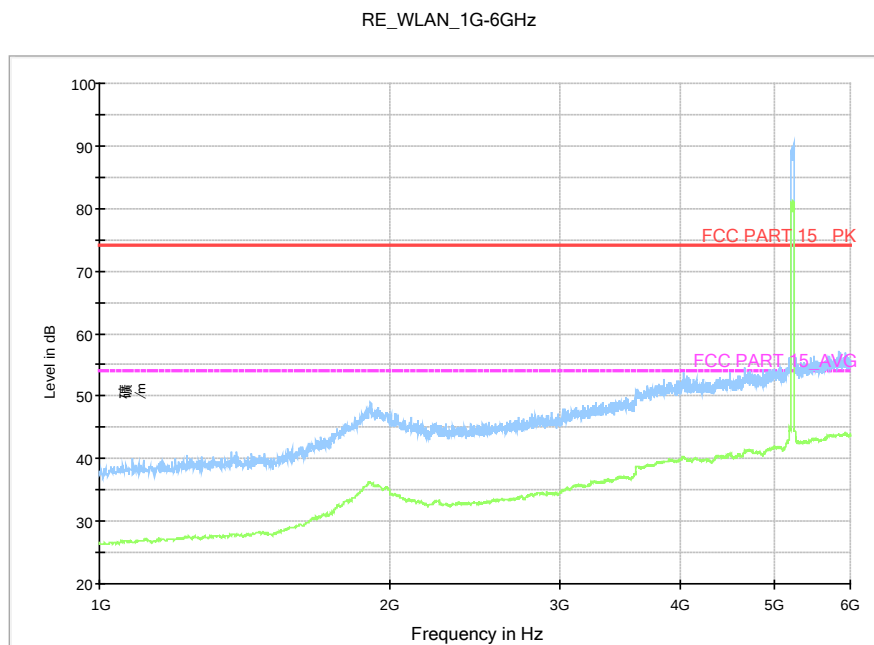


Fig. 72 Radiated Spurious Emission (802.11n-HT40, ch46, 1 GHz-6 GHz)

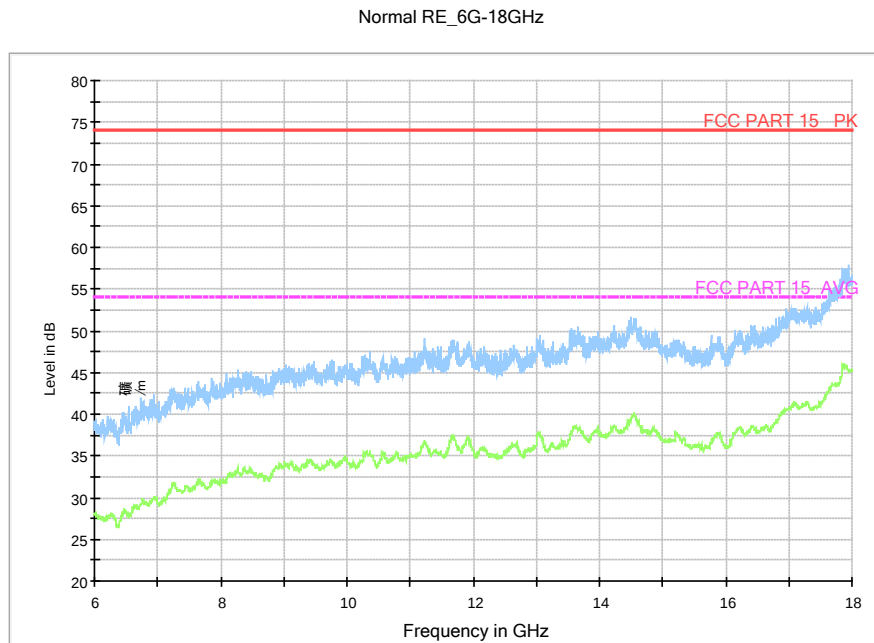


Fig. 73 Radiated Spurious Emission (802.11n-HT40, ch46, 6 GHz-18 GHz)

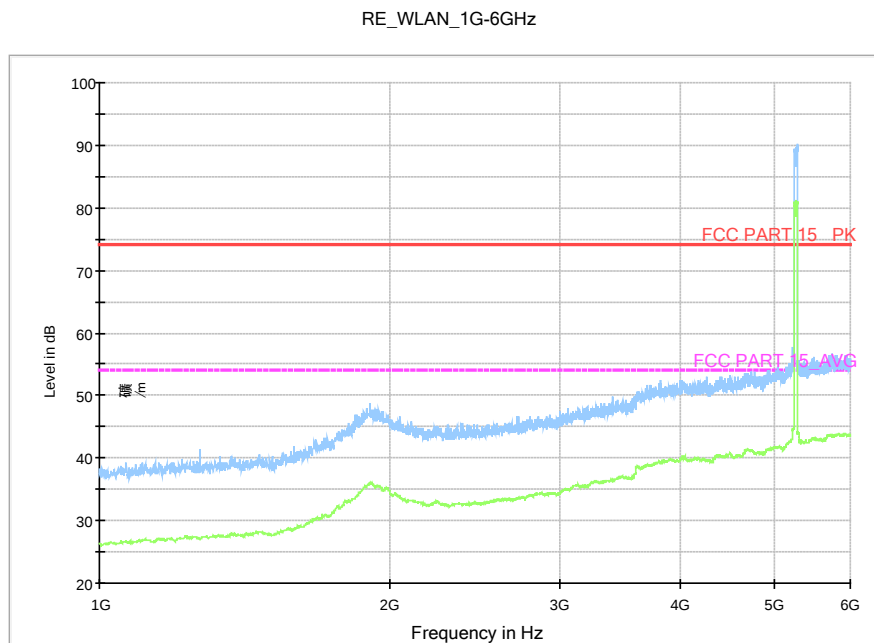


Fig. 74 Radiated Spurious Emission (802.11n-HT40, ch54, 1 GHz-6 GHz)

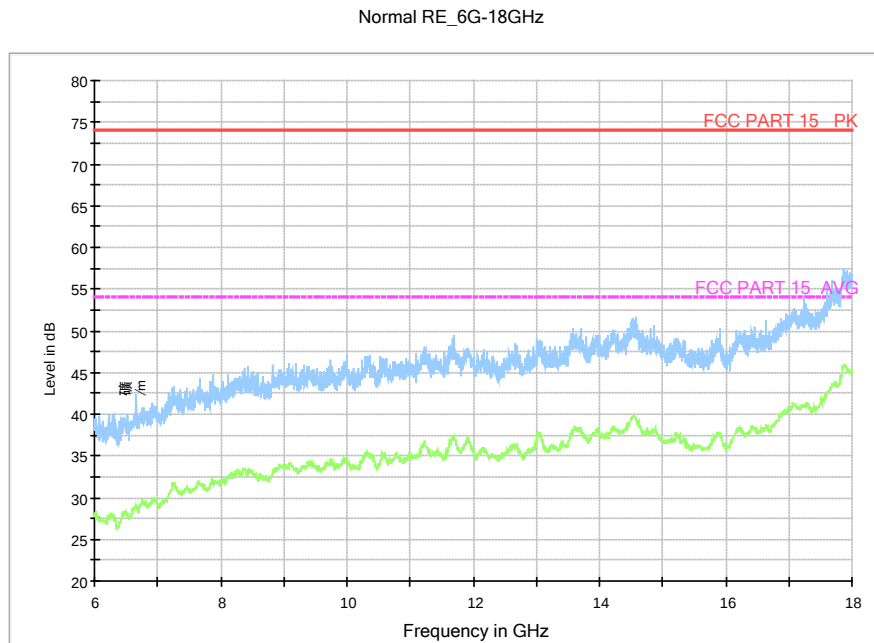


Fig. 75 Radiated Spurious Emission (802.11n-HT40, ch54, 6 GHz-18 GHz)

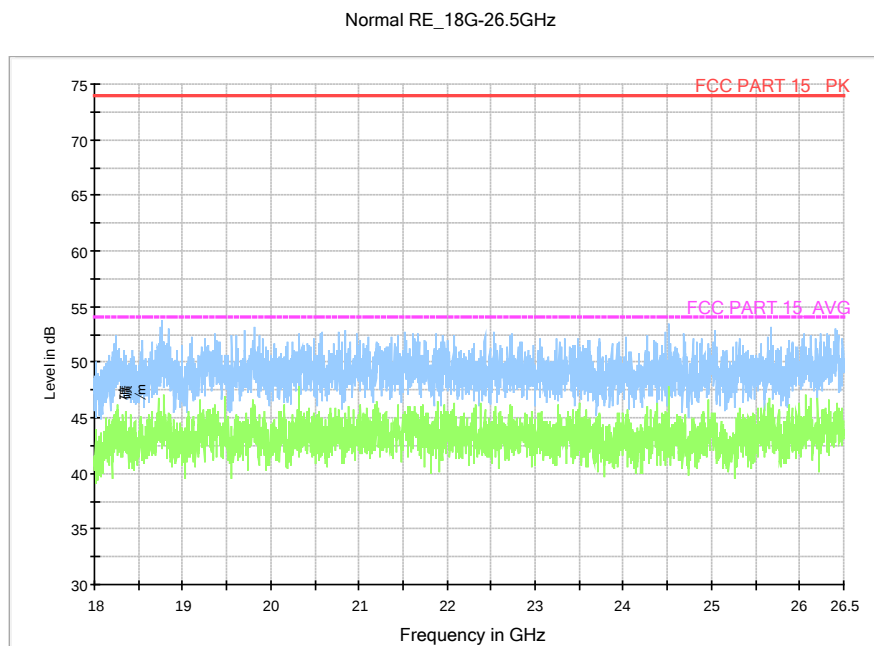


Fig. 76 Radiated Spurious Emission (802.11n-HT40, ch54, 18 GHz-26.5 GHz)

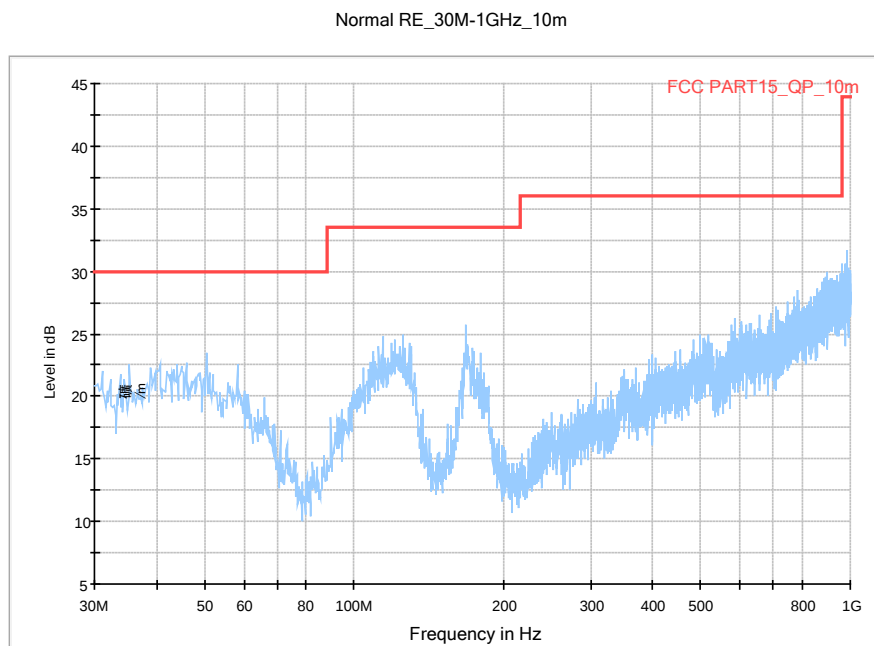


Fig. 77 Radiated Spurious Emission (802.11n-HT40, ch62, 30 MHz-1 GHz)

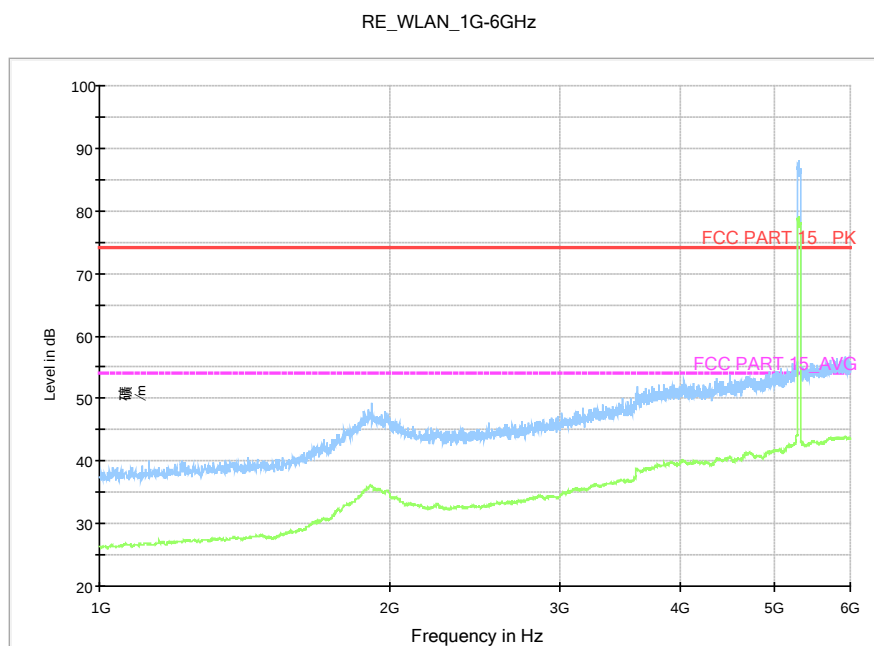


Fig. 78 Radiated Spurious Emission (802.11n-HT40, ch62, 1 GHz-6 GHz)

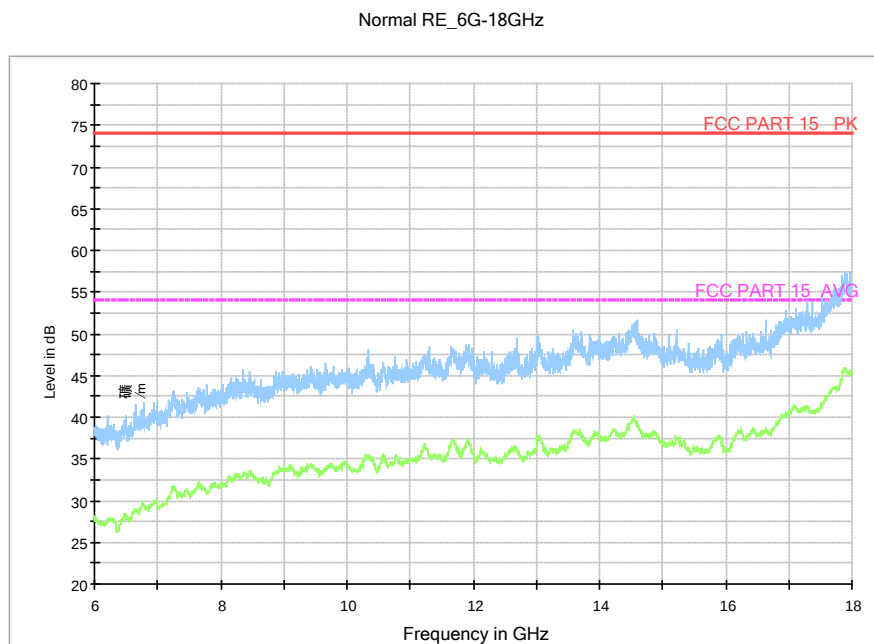


Fig. 79 Radiated Spurious Emission (802.11n-HT40, ch62, 6 GHz-18 GHz)

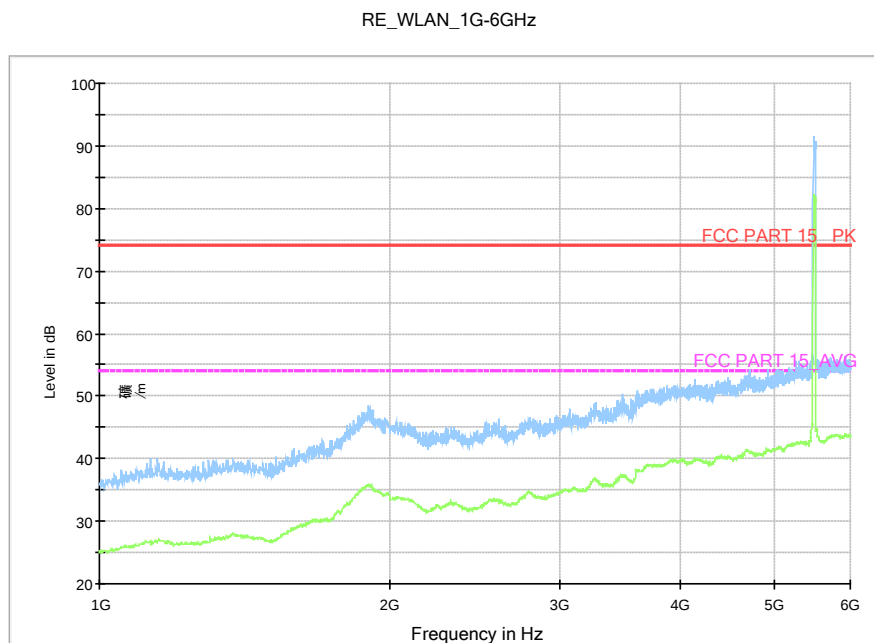


Fig. 80 Radiated Spurious Emission (802.11n-HT40, ch102, 1 GHz-6 GHz)

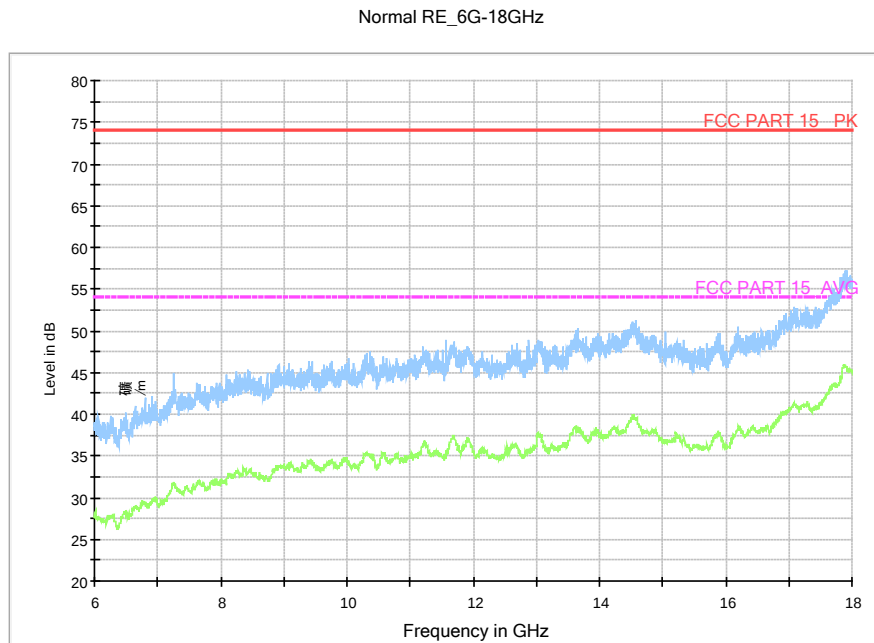


Fig. 81 Radiated Spurious Emission (802.11n-HT40, ch102, 6 GHz-18 GHz)

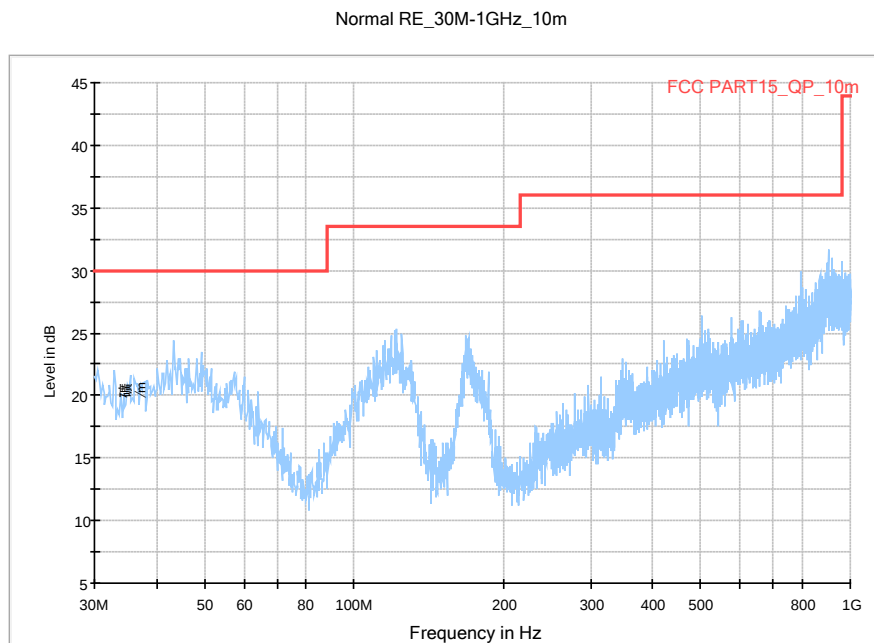


Fig. 82 Radiated Spurious Emission (802.11n-HT40, ch118, 30 MHz-1 GHz)

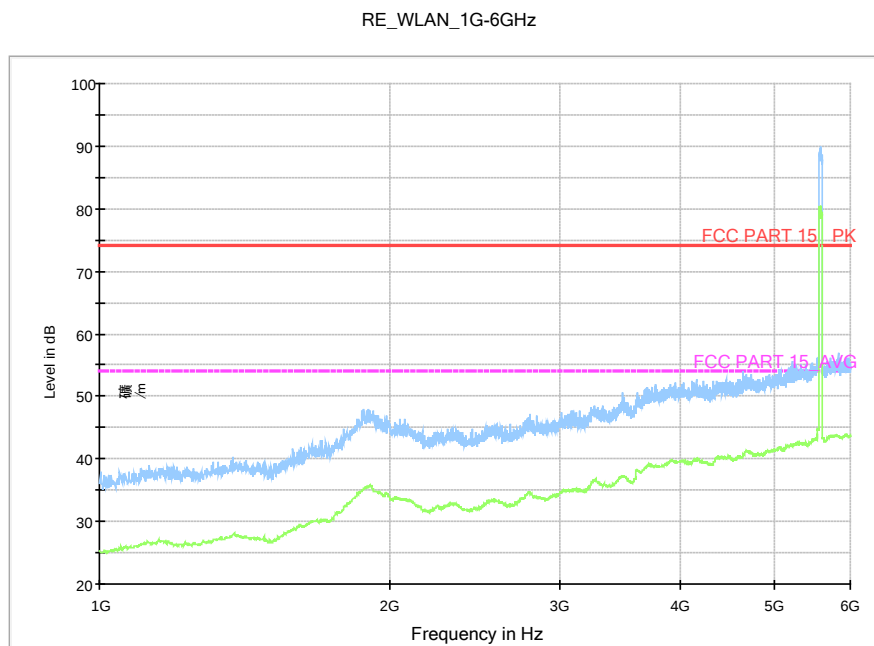
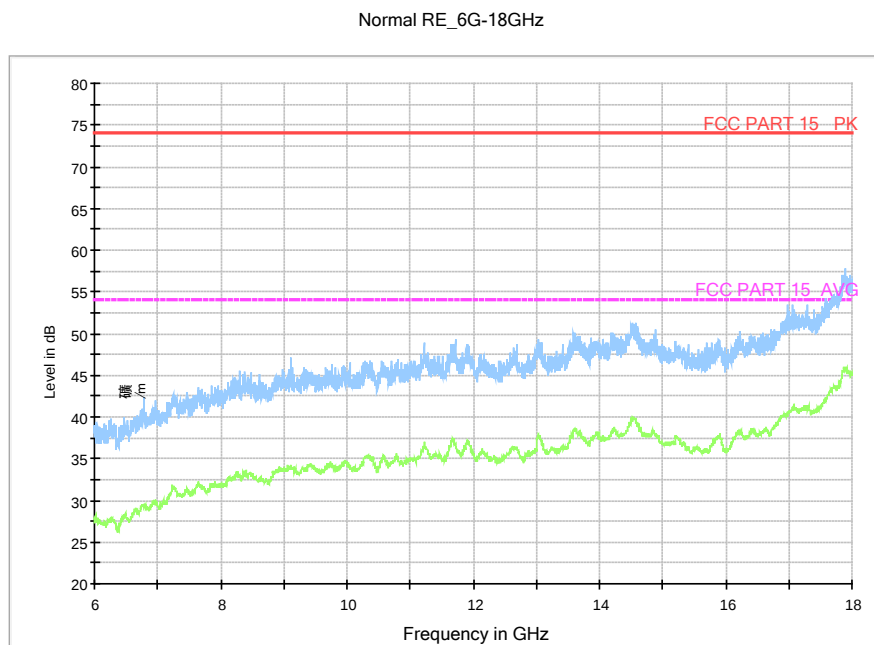


Fig. 83 Radiated Spurious Emission (802.11n-HT40, ch118, 1 GHz-6 GHz)



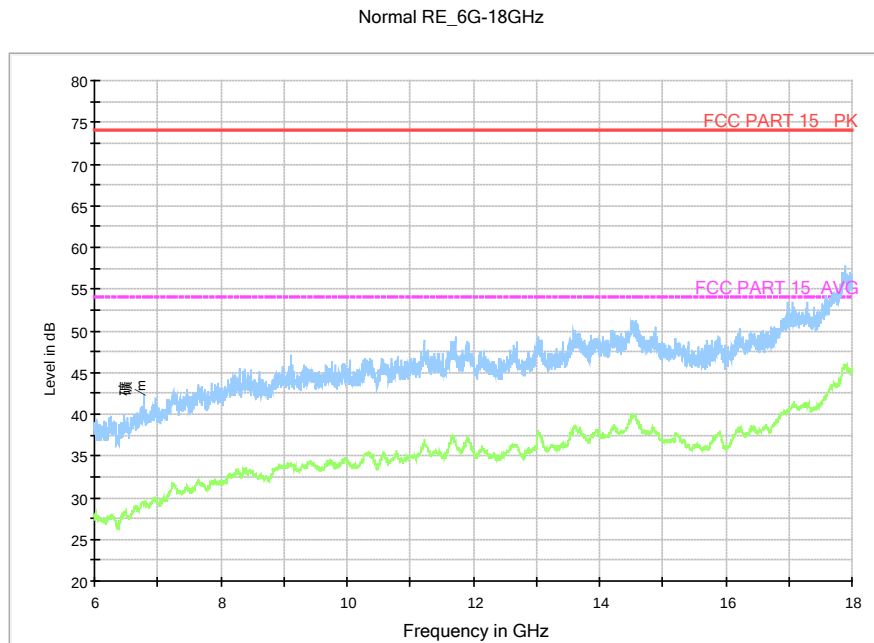


Fig. 84 Radiated Spurious Emission (802.11n-HT40, ch118, 6 GHz-18 GHz)

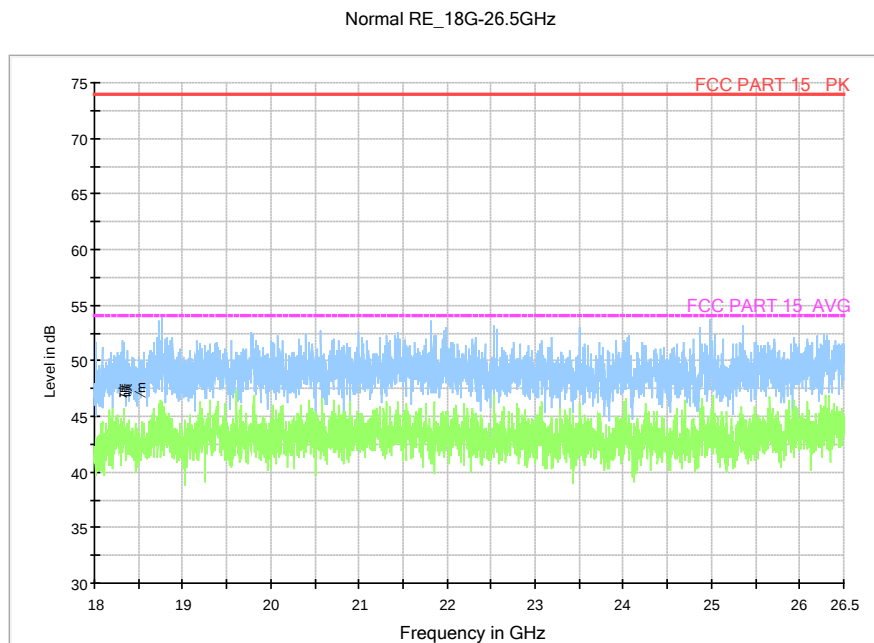


Fig. 85 Radiated Spurious Emission (802.11n-HT40, ch118, 18 GHz-26.5 GHz)

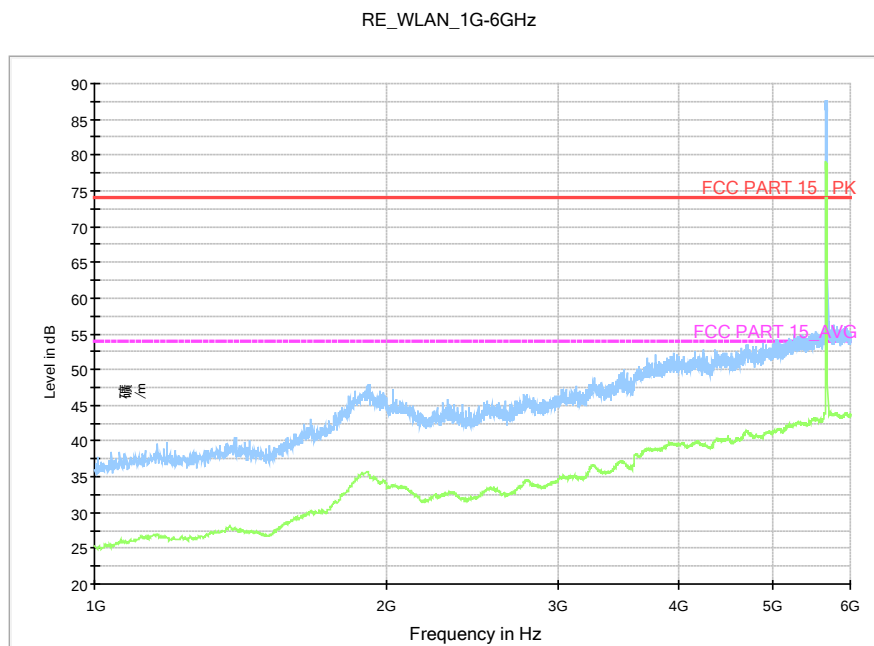


Fig. 86 Radiated Spurious Emission (802.11n-HT40, ch134, 1 GHz-6 GHz)

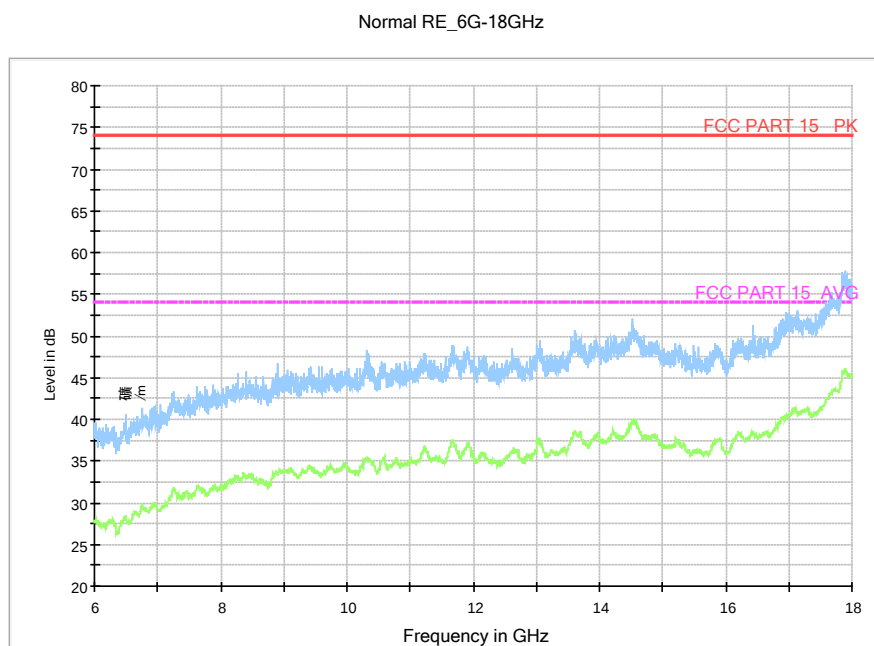


Fig. 87 Radiated Spurious Emission (802.11n-HT40, ch134, 6 GHz-18 GHz)

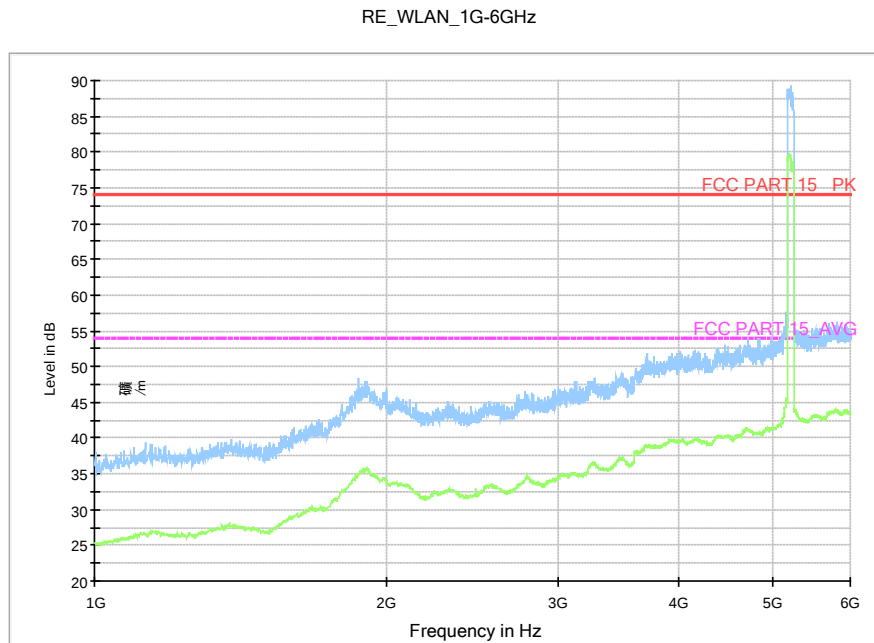


Fig. 88 Radiated Spurious Emission (802.11ac-HT80, ch42, 1 GHz-6 GHz)

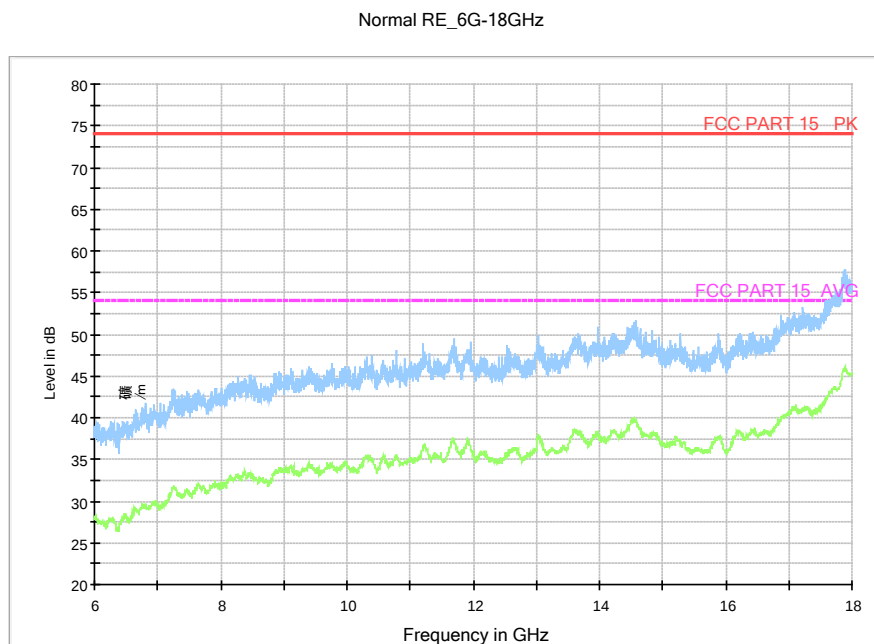


Fig. 89 Radiated Spurious Emission (802.11ac-HT80, ch42, 6 GHz-18 GHz)

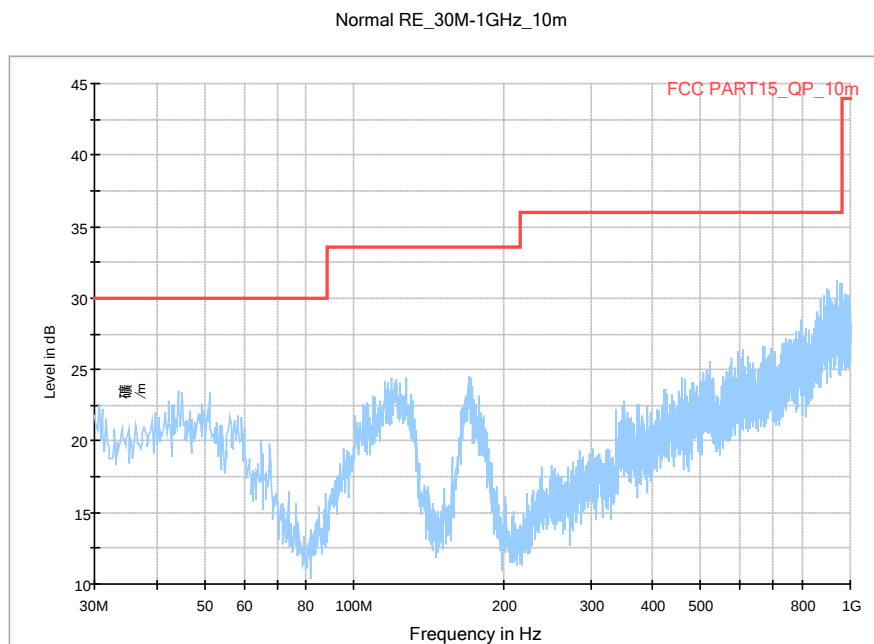


Fig. 90 Radiated Spurious Emission (802.11ac-HT80, ch58, 30 MHz-1 GHz)

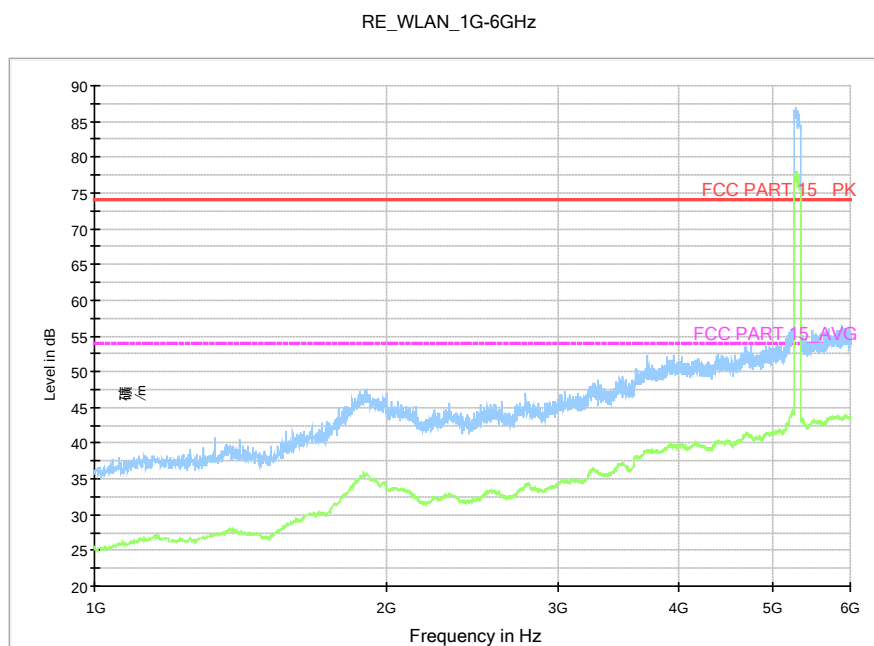


Fig. 91 Radiated Spurious Emission (802.11ac-HT80, ch58, 1 GHz-6 GHz)

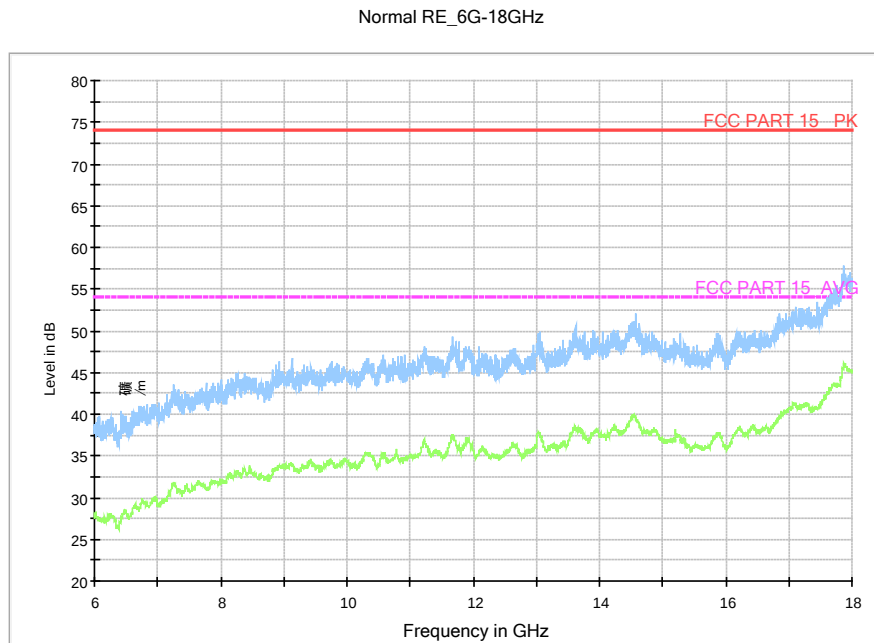


Fig. 92 Radiated Spurious Emission (802.11ac-HT80, ch58, 6 GHz-18 GHz)

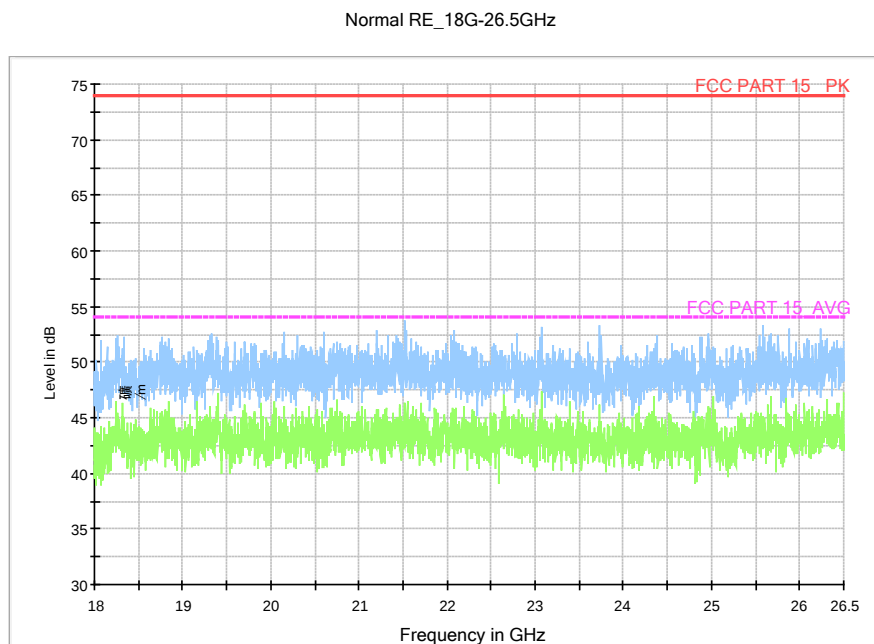


Fig. 93 Radiated Spurious Emission (802.11ac-HT80, ch58, 18 GHz-26.5 GHz)

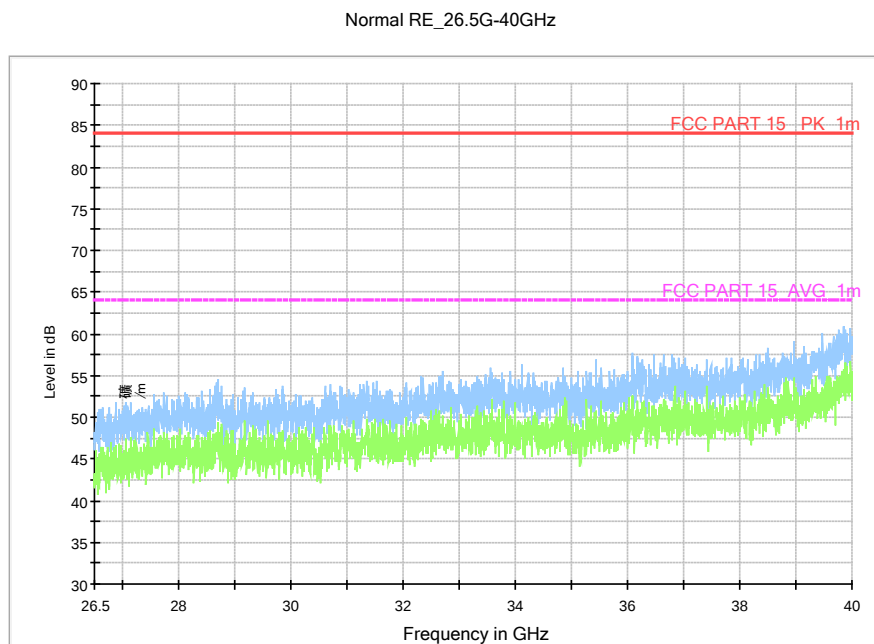


Fig. 94 Radiated Spurious Emission (802.11ac-HT80, ch58, 26.5 GHz-40 GHz)

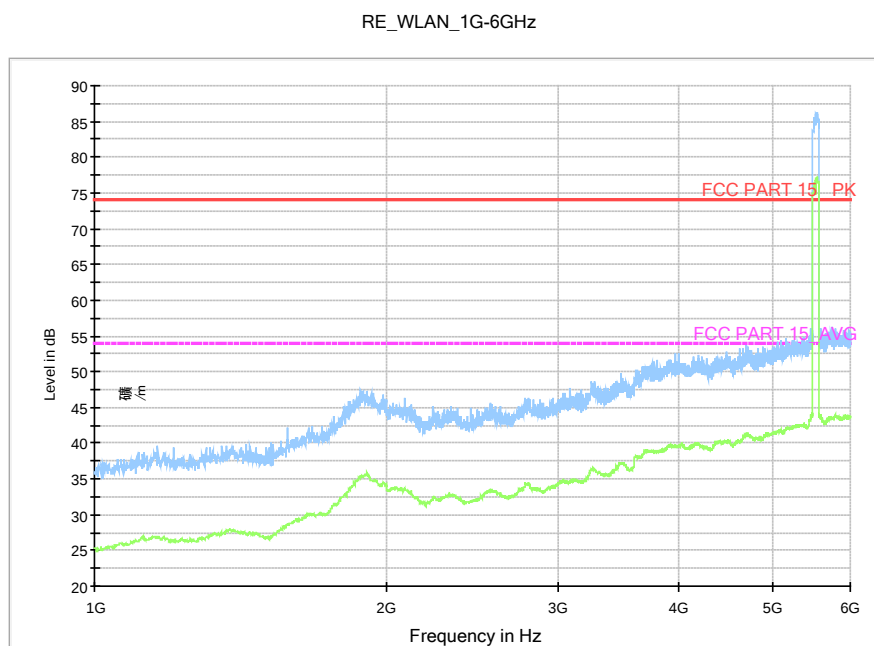


Fig. 95 Radiated Spurious Emission (802.11ac-HT80, ch106, 1 GHz-6 GHz)

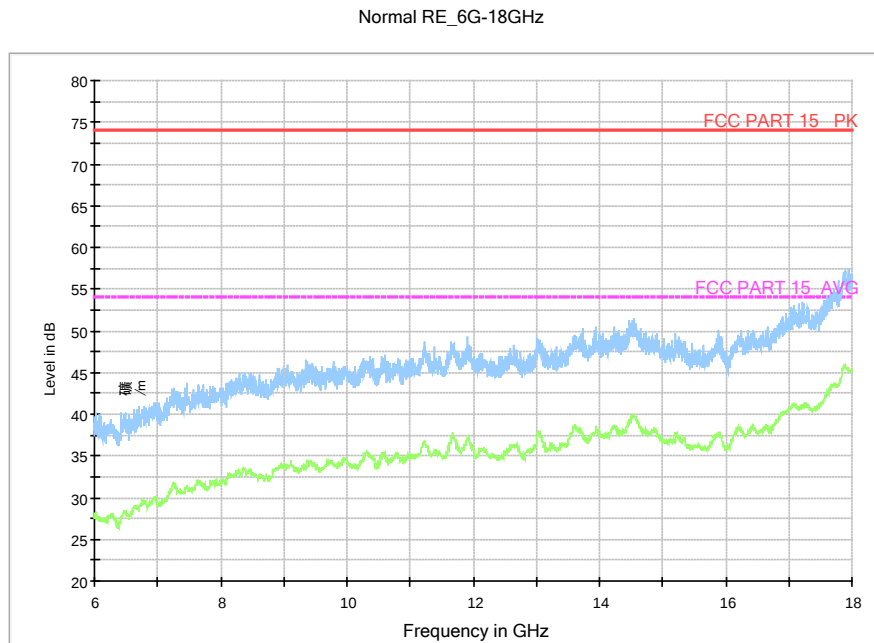


Fig. 96 Radiated Spurious Emission (802.11ac-HT80, ch106, 6 GHz-18 GHz)

A.4. Spurious Emissions Radiated < 30MHz

Measurement Limit(15.209, 9kHz-30MHz):

Frequency (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance(m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

The measurement is made according to KDB 789033

Note: The measurement distance during the test is 3m. The limit used in plots is recalculated based on the extrapolation factor of 40 dB/decade.

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 2.6\text{dB}$, $k=2$.

Measurement Results:

Mode	Frequency Range	Test Results	Conclusion
802.11a	9 kHz ~30 MHz	Fig.97	P

Conclusion: PASS

Test graphs as below:

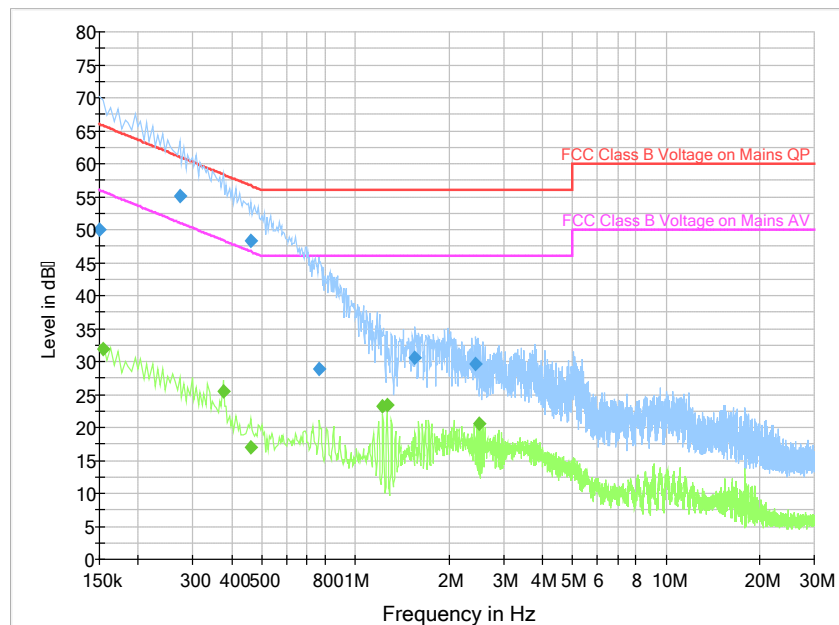


Fig. 97 Radiated Spurious Emission (802.11a, ch40, 9 kHz ~30 MHz)

A.5. Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig. 98	Fig. 99	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)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.98	Fig.99	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.

Conclusion: PASS

Test graphs as below:

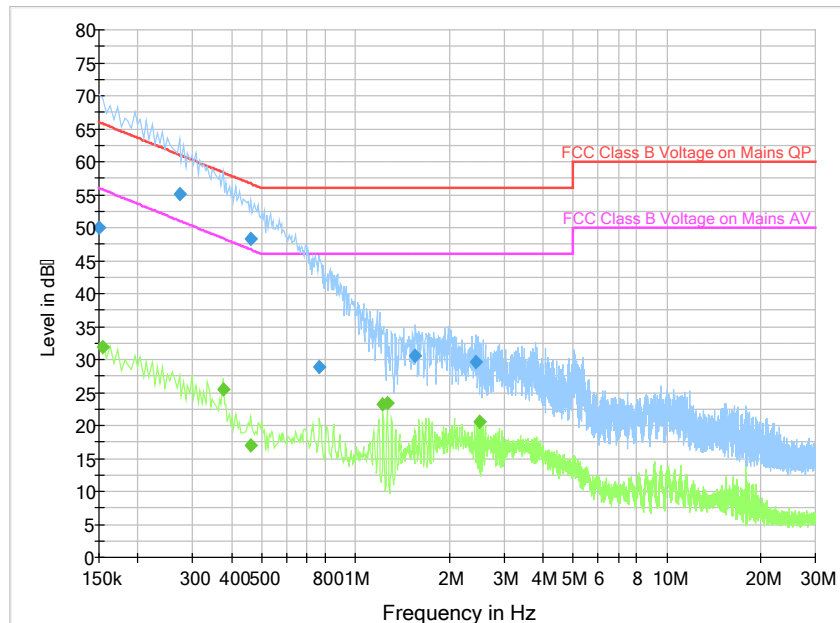


Fig. 98 Conducted Emission(802.11a, Ch40, TX)

Measurement Result:

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	50.0	2000.0	9.000	On	N	20.1	16.0	66.0
0.271500	55.1	2000.0	9.000	On	N	19.8	6.0	61.1
0.460500	48.3	2000.0	9.000	On	N	19.8	8.4	56.7
0.762000	28.8	2000.0	9.000	On	N	19.8	27.2	56.0
1.558500	30.6	2000.0	9.000	On	N	19.7	25.4	56.0
2.445000	29.6	2000.0	9.000	On	N	19.6	26.4	56.0

Measurement Result:

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	31.9	2000.0	9.000	On	N	19.9	23.9	55.8
0.375000	25.5	2000.0	9.000	On	N	19.8	22.8	48.4
0.460500	17.0	2000.0	9.000	On	N	19.8	29.7	46.7
1.225500	23.2	2000.0	9.000	On	N	19.7	22.8	46.0
1.266000	23.3	2000.0	9.000	On	N	19.7	22.7	46.0
2.494500	20.5	2000.0	9.000	On	N	19.6	25.5	46.0

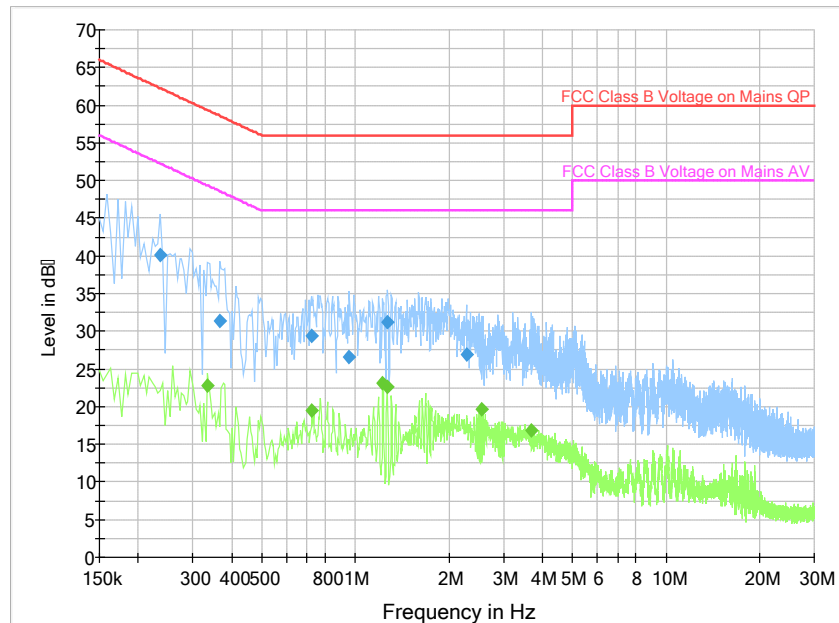


Fig. 99 Conducted Emission(802.11a, IDLE)

Measurement Result:

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.235500	40.1	2000.0	9.000	On	N	19.7	22.1	62.3
0.366000	31.4	2000.0	9.000	On	L1	19.8	27.2	58.6
0.721500	29.3	2000.0	9.000	On	L1	19.8	26.7	56.0
0.955500	26.5	2000.0	9.000	On	N	19.7	29.5	56.0
1.270500	31.2	2000.0	9.000	On	N	19.7	24.8	56.0
2.274000	26.9	2000.0	9.000	On	N	19.6	29.1	56.0

Measurement Result:

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.334500	22.7	2000.0	9.000	On	N	19.8	26.6	49.3
0.726000	19.4	2000.0	9.000	On	N	19.8	26.6	46.0
1.225500	23.2	2000.0	9.000	On	N	19.7	22.8	46.0
1.266000	22.7	2000.0	9.000	On	N	19.7	23.3	46.0
2.539500	19.6	2000.0	9.000	On	N	19.6	26.4	46.0
3.687000	16.8	2000.0	9.000	On	N	19.7	29.2	46.0

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