



**FCC PART 15
TEST REPORT
No. B18N00008-RLAN**

for

Huawei Technologies Co., Ltd.

Smart Phone

ANE-LX1

with

Hardware Version: HL2ANNEM

Software Version: ANE-LX1 8.0.0.41(SP1C900)

FCC ID: QISANE-LX1

Issued Date: 2018-01-31

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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REPORT HISTORY

Report Number	Revision	Description	Issue Date
B18N00008-RLAN	Rev.0	1st edition	2018-01-31

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1. TEST LATORATORY

1.1. Testing Location

Company name Shenzhen Academy of Information and Communications Technology
Address: Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong
Province ,China
Postal Code: 518026
Telephone: +86(0)755-33322000
Fax: +86(0)755-33322001

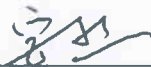
1.2. Testing Environment

Normal Temperature: 15-30℃
Relative Humidity: 35-60%

1.3. Project data

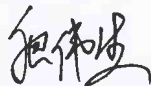
Testing Start Date: 2018-01-15
Testing End Date: 2018-01-24

1.4. Signature



An Ran

(Prepared this test report)



Tang Weisheng

(Reviewed this test report)



Zhang Bojun

(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Huawei Technologies Co., Ltd
Address: Administration Building, Headquarters of Huawei Technologies Co.,Ltd., Bantian, Longgang District, Shenzhen 518129,P.R.China
Contact Person: zhengpengfei
Telephone: 18126329976
Fax: /
E-Mail: zhengpengfei@huawei.com

2.2. Manufacturer Information

Company Name: Huawei Technologies Co., Ltd
Address: Administration Building, Headquarters of Huawei Technologies Co.,Ltd.,Bantian, Longgang District, Shenzhen 518129,P.R.China
Contact Person: zhengpengfei
Telephone: 18126329976
Fax: /
E-Mail: zhengpengfei@huawei.com

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

3.1. About EUT

Description	Smart Phone
Model Name	ANE-LX1
RLAN Frequency Range	ISM Bands: 5150MHz~5250MHz 5250MHz~5350MHz 5470MHz~5725MHz
RLAN Protocol	IEEE 802.11a,802.11n-HT20/40,802.11ac-VHT20/40/80
Antenna Type	Integrated
Power Supply	3.8V DC by Battery
FCC ID	QISANE-LX1

Note: Components list, please refer to documents of the manufacturer

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	867905030019063	HL2ANNEM	ANE-LX1 8.0.0.41(SP1C900)

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

3.3. Internal Identification of AE

AE ID*	Description	Mode	Manufacturer
AE1	Adapter	/	/
AE2	Battery	/	/

*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 Smart Phone with integrated antenna and inbuilt battery.

It consists of normal options: travel charger, 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	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices Subpart E – UNII Devices	2016
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

Note: DFS is a separate report.

5. SUMMARY OF TEST RESULTS

5.1. Summary of Test Results

No.	Test cases	Sub-clause of Part15E	Verdict
1	Radiated Spurious Emissions	15.407	P

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

5.2. 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 isotropic radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

6. TEST EQUIPMENTS UTILIZED

Radiated test system

NO.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Loop Antenna	HLA6120	35779	TESEQ	2019.05.02	3 years
2.	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2020.02.27	3 years
3.	Horn Antenna	3117	00066577	ETS-lindgren	2019.04.05	3 years
4.	Test Receiver	ESR7	101676	Rohde & Schwarz	2018.11.29	1 year
5.	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2018.05.22	1 year
6.	Horn Antenna	QSH-SL-18-26-S-20	17013	Q-par	2020.01.15	3 years
7.	Horn Antenna	QSH-SL-26-40-K-20	17014	Q-par	2020.01.11	3 years
8.	Anechoic chamber	FACT3-2.0	1285	ETS-Lindgren	2019.11.27	3 years

Test software

No.	Equipment	Manufacturer	Version
1	EMC32	Rohde & Schwarz	10.01.00

7. Measurement Uncertainty

7.1. Radiated Spurious Emissions

Frequency Range	Uncertainty(dB)
$9\text{kHz} \leq f \leq 30\text{MHz}$	1.84
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.02
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.32
$18\text{GHz} \leq f \leq 40\text{GHz}$	4.66

ANNEX A: MEASUREMENT RESULTS

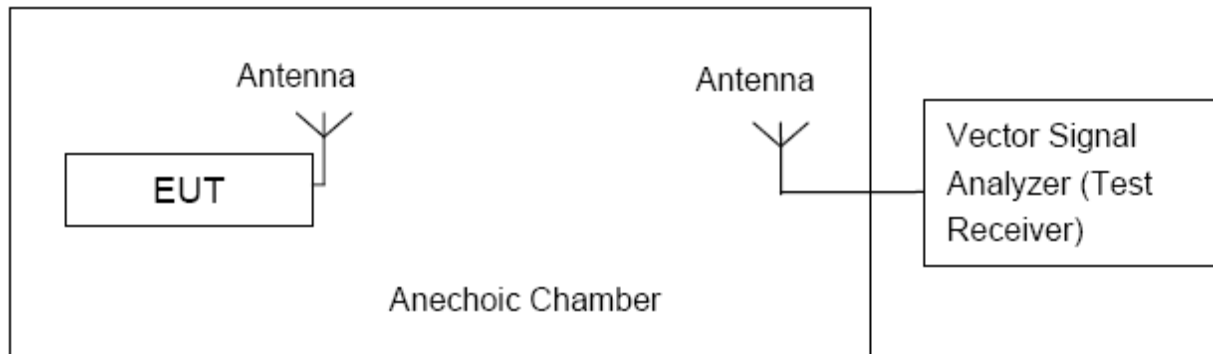
A.1. Measurement Method

Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows:

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

Sweep frequency from 1 GHz to 40 GHz, RBW = 1 MHz, 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. Radiated Spurious Emission

Measurement Limit:

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

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.

Measurement Result:

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	5180MHz(Ch36)	1 GHz ~18 GHz	Fig.1	P
	5200MHz(Ch40)	1 GHz ~18 GHz	Fig.2	P
	5240MHz(Ch48)	1 GHz ~18 GHz	Fig.3	P
	5260MHz(Ch52)	1 GHz ~18 GHz	Fig.4	P
	5280MHz(Ch56)	1 GHz ~18 GHz	Fig.5	P
	5320MHz(Ch64)	1 GHz ~18 GHz	Fig.6	P
	5500MHz(Ch100)	1 GHz ~18 GHz	Fig.7	P
	5600MHz(Ch120)	1 GHz ~18 GHz	Fig.8	P
	5700MHz(Ch140)	1 GHz ~18 GHz	Fig.9	P
802.11n HT20	5180MHz(Ch36)	1 GHz ~18 GHz	Fig.10	P
	5200MHz(Ch40)	1 GHz ~18 GHz	Fig.11	P
	5240MHz(Ch48)	1 GHz ~18 GHz	Fig.12	P
	5260MHz(Ch52)	1 GHz ~18 GHz	Fig.13	P
	5280MHz(Ch56)	1 GHz ~18 GHz	Fig.14	P
	5320MHz(Ch64)	1 GHz ~18 GHz	Fig.15	P
	5500MHz(Ch100)	1 GHz ~18 GHz	Fig.16	P
	5600MHz(Ch120)	1 GHz ~18 GHz	Fig.17	P
	5700MHz(Ch140)	1 GHz ~18 GHz	Fig.18	P

802.11n HT40	5190MHz(Ch38)	1 GHz ~18 GHz	Fig.19	P
	5230MHz(Ch46)	1 GHz ~18 GHz	Fig.20	P
	5270MHz(Ch54)	1 GHz ~18 GHz	Fig.21	P
	5310MHz(Ch62)	1 GHz ~18 GHz	Fig.22	P
	5510MHz(Ch102)	1 GHz ~18 GHz	Fig.23	P
	5590MHz(Ch118)	1 GHz ~18 GHz	Fig.24	P
	5670MHz(Ch134)	1 GHz ~18 GHz	Fig.25	P
802.11ac VHT20	5180MHz(Ch36)	1 GHz ~18 GHz	Fig.26	P
	5200MHz(Ch40)	1 GHz ~18 GHz	Fig.27	P
	5240MHz(Ch48)	1 GHz ~18 GHz	Fig.28	P
	5260MHz(Ch52)	1 GHz ~18 GHz	Fig.29	P
	5280MHz(Ch56)	1 GHz ~18 GHz	Fig.30	P
	5320MHz(Ch64)	1 GHz ~18 GHz	Fig.31	P
	5500MHz(Ch100)	1 GHz ~18 GHz	Fig.32	P
	5600MHz(Ch120)	1 GHz ~18 GHz	Fig.33	P
	5700MHz(Ch140)	1 GHz ~18 GHz	Fig.34	P
802.11ac VHT40	5190MHz(Ch38)	1 GHz ~18 GHz	Fig.35	P
	5230MHz(Ch46)	1 GHz ~18 GHz	Fig.36	P
	5270MHz(Ch54)	1 GHz ~18 GHz	Fig.37	P
	5310MHz(Ch62)	1 GHz ~18 GHz	Fig.38	P
	5510MHz(Ch102)	1 GHz ~18 GHz	Fig.39	P
	5590MHz(Ch118)	1 GHz ~18 GHz	Fig.40	P
	5670MHz(Ch134)	1 GHz ~18 GHz	Fig.41	P
802.11ac VHT80	5210MHz(Ch42)	1 GHz ~18 GHz	Fig.42	P
	5290MHz(Ch58)	1 GHz ~18 GHz	Fig.43	P
	5530MHz(Ch106)	1 GHz ~18 GHz	Fig.44	P
	5610MHz(Ch122)	1 GHz ~18 GHz	Fig.45	P
All channels		30 MHz ~1 GHz	Fig.46	P
		18 GHz ~26.5 GHz	Fig.47	P
		26.5GHz~40GHz	Fig.48	P

Conclusion: PASS

Test graphs as below:

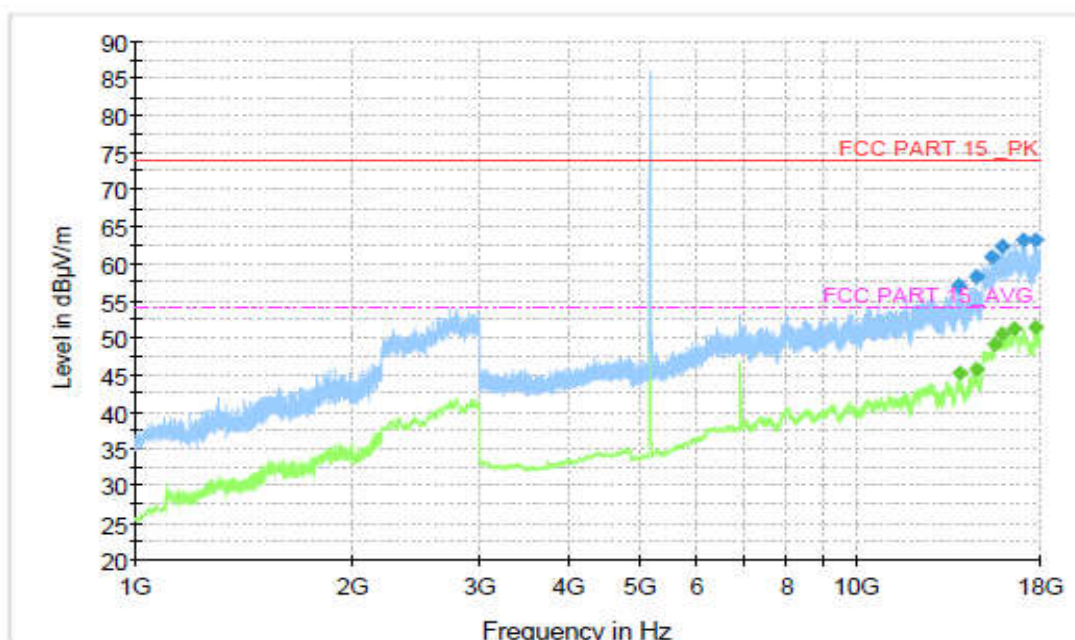


Fig. 1 Transmitter Spurious Emission (802.11a, 5180MHz)

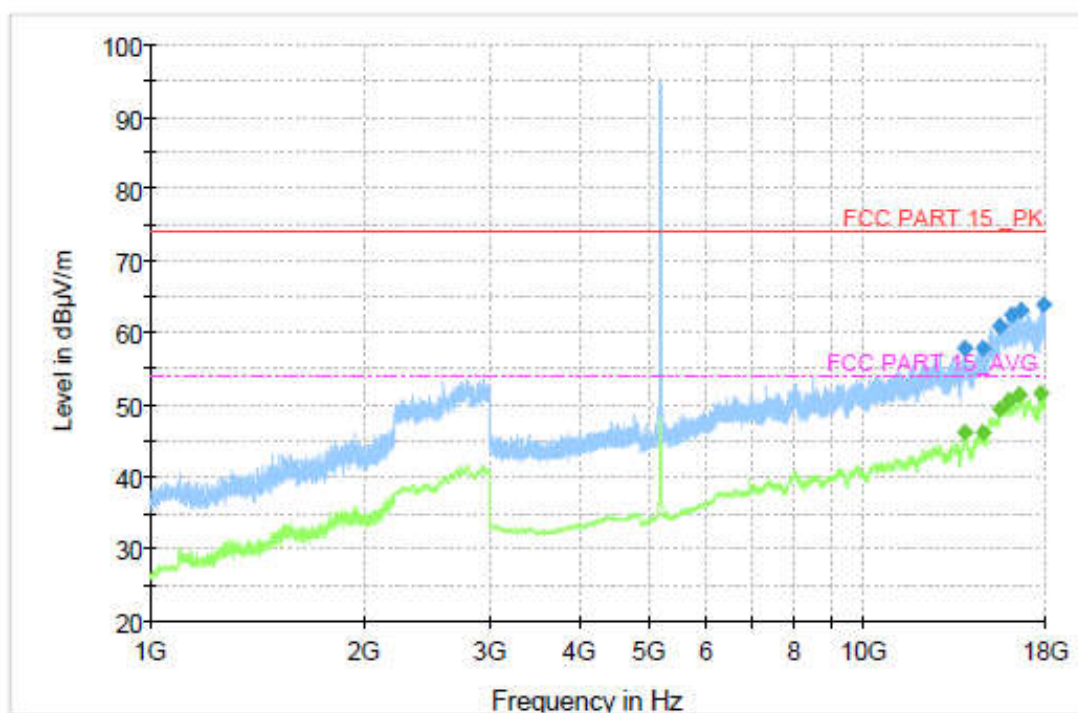


Fig. 2 Transmitter Spurious Emission (802.11a, 5200MHz)

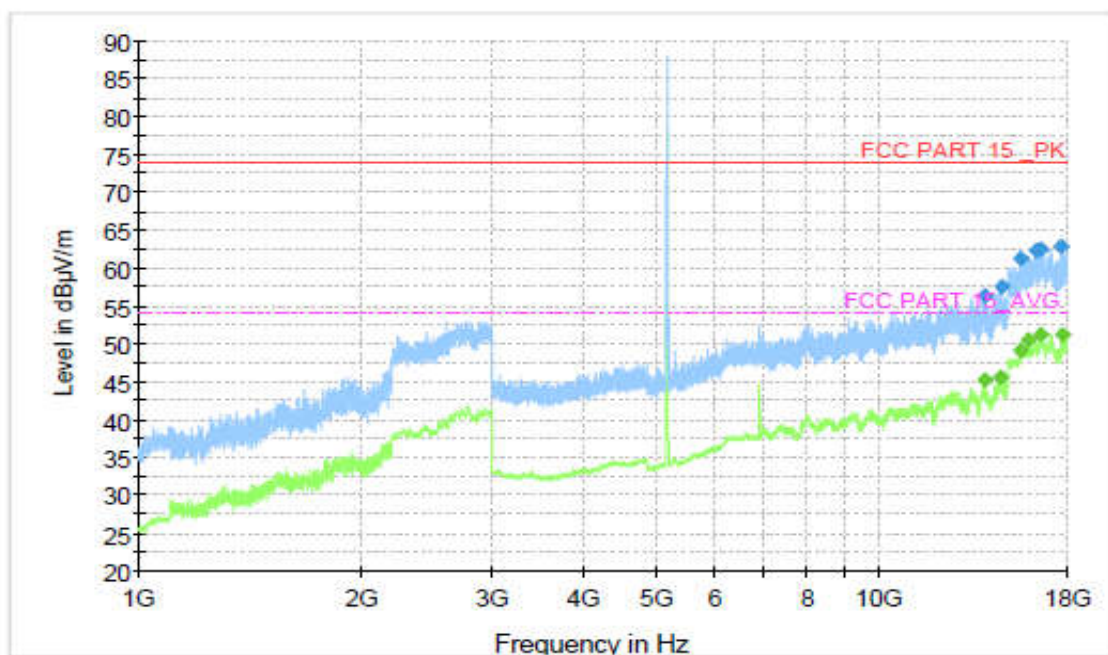


Fig. 3 Transmitter Spurious Emission (802.11a, 5240MHz)

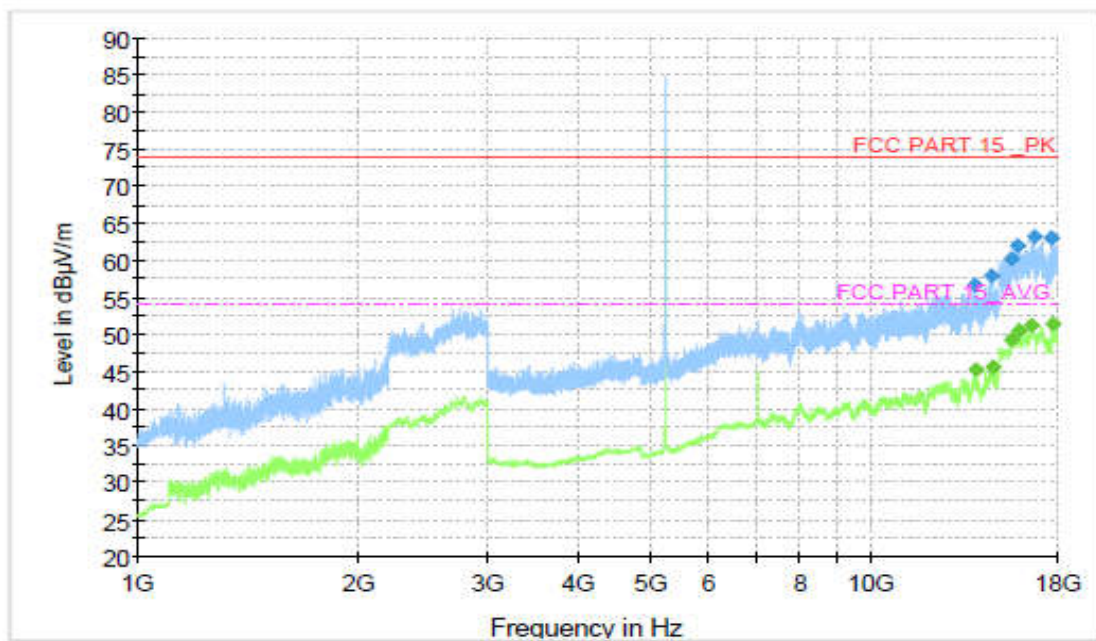


Fig. 4 Transmitter Spurious Emission (802.11a, 5260MHz)

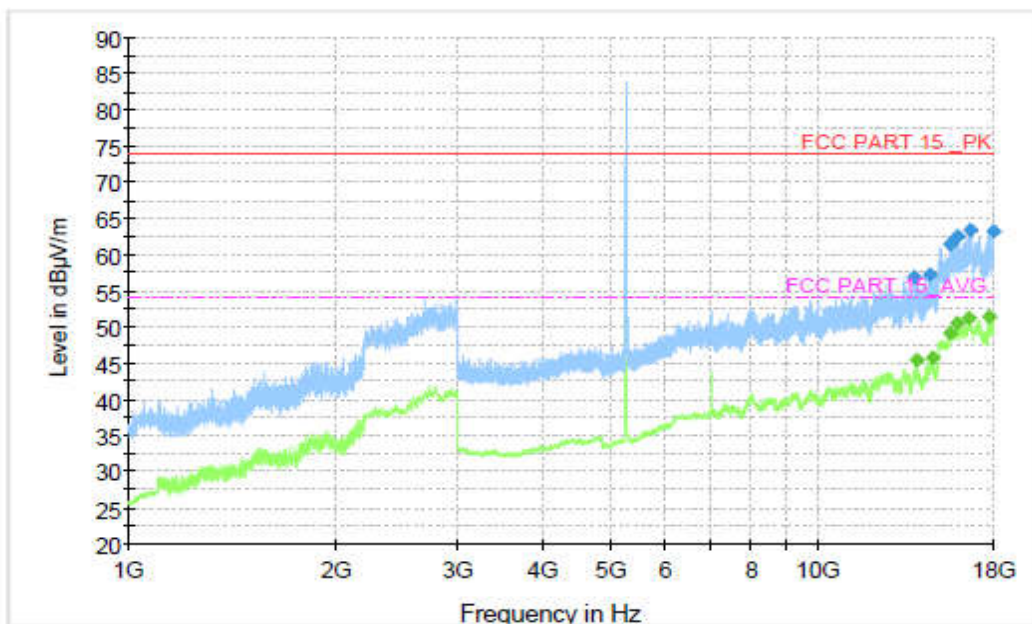


Fig. 5 Transmitter Spurious Emission (802.11a, 5280MHz)

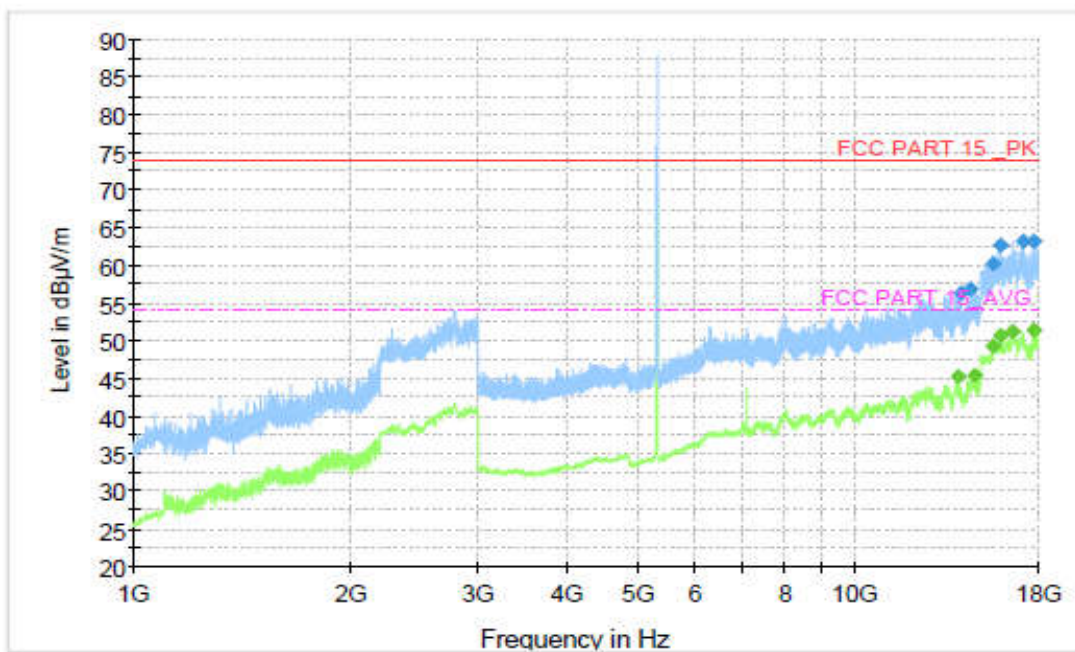


Fig. 6 Transmitter Spurious Emission (802.11a, 5320MHz)

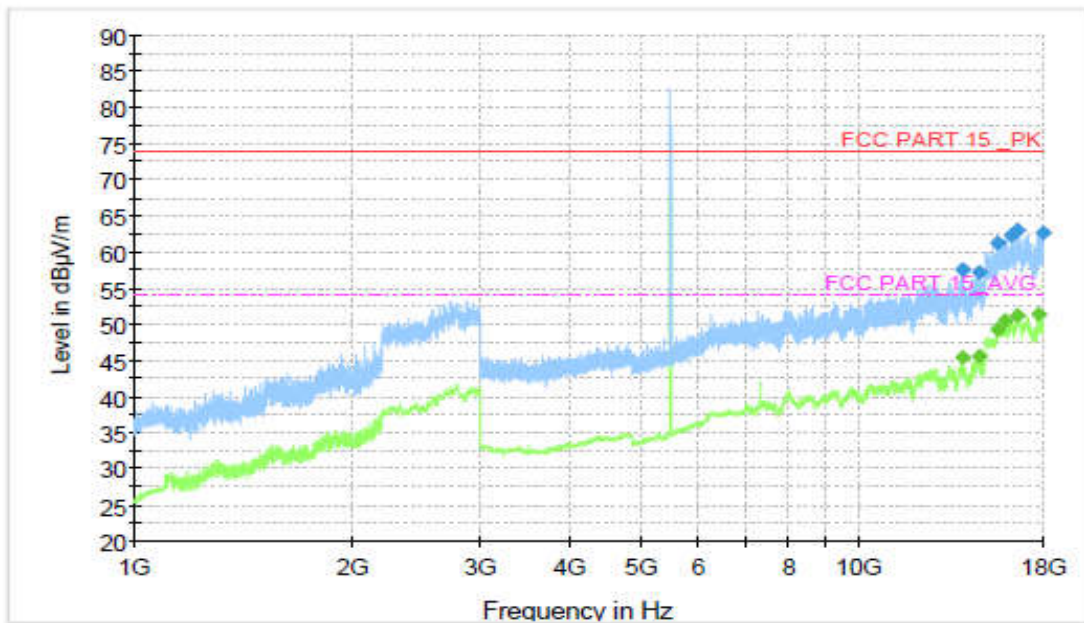


Fig. 7 Transmitter Spurious Emission (802.11a, 5500MHz)

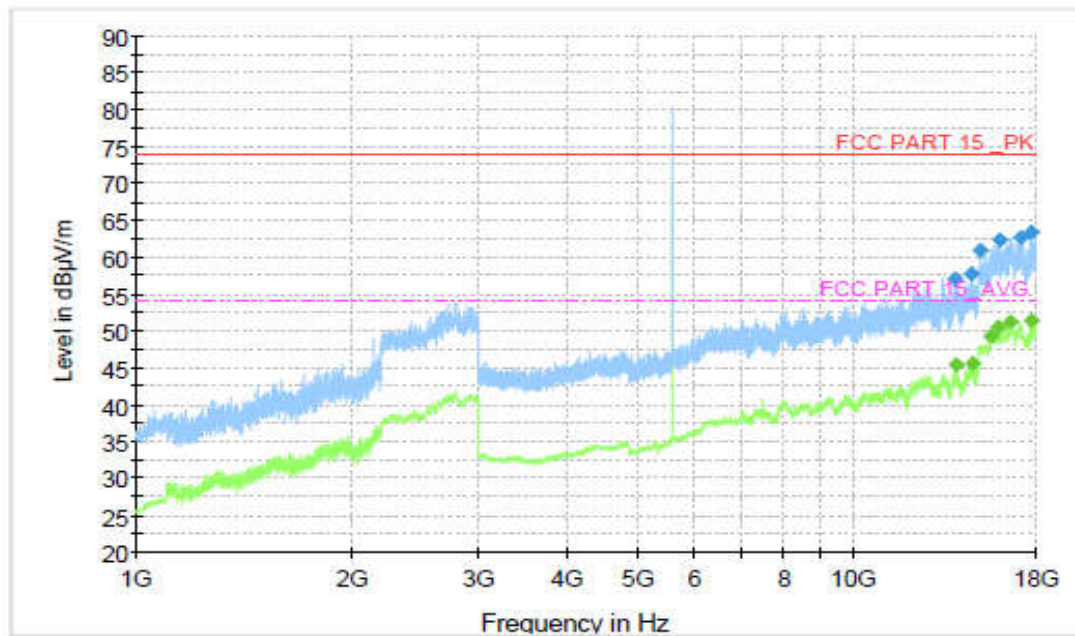


Fig. 8 Transmitter Spurious Emission (802.11a, 5600MHz)

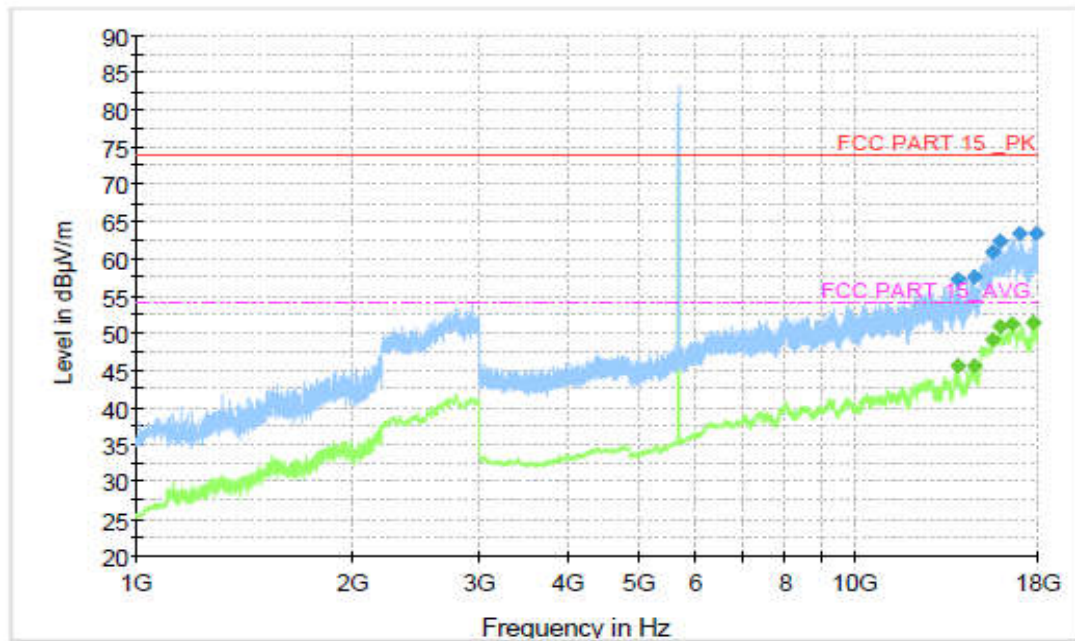


Fig. 9 Transmitter Spurious Emission (802.11a, 5700MHz)

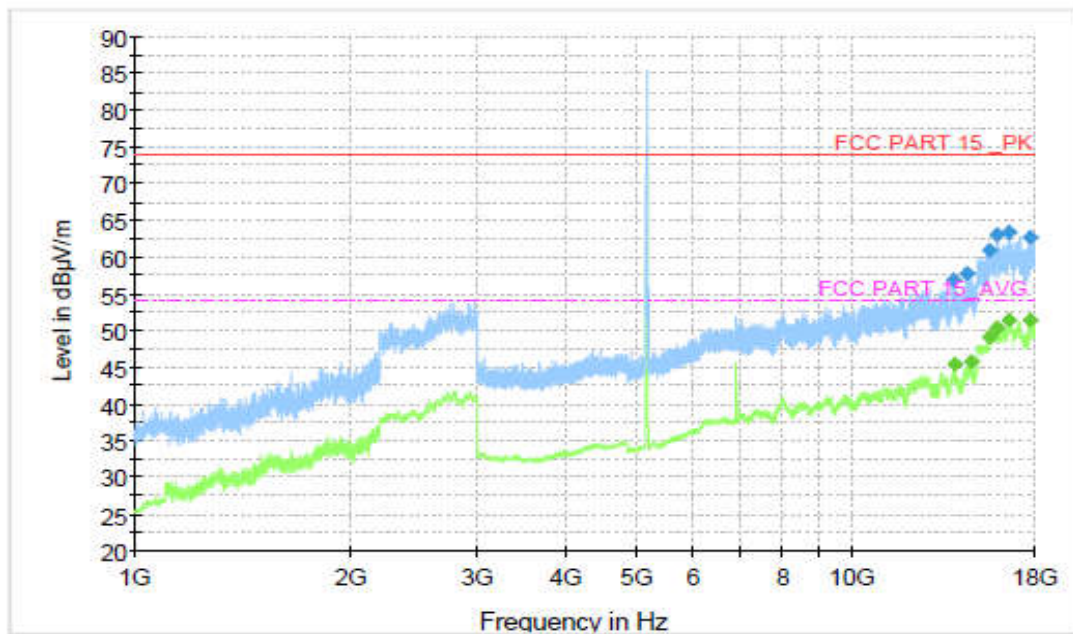


Fig. 10 Transmitter Spurious Emission (802.11n-HT20, 5180MHz)

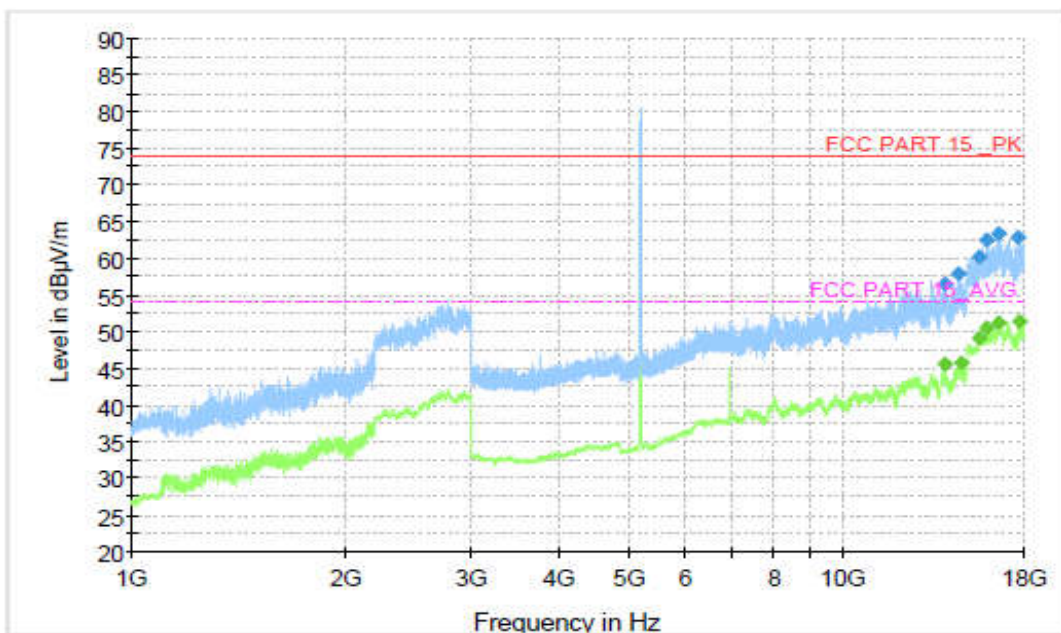


Fig. 11 Transmitter Spurious Emission (802.11n-HT20, 5200MHz)

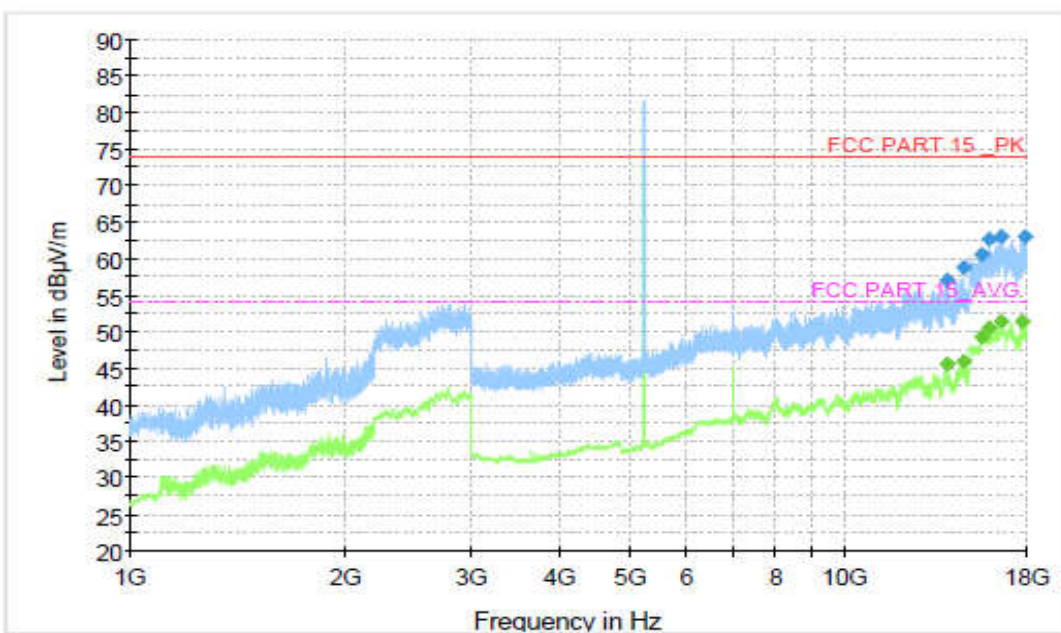


Fig. 12 Transmitter Spurious Emission (802.11n-HT20, 5240MHz)

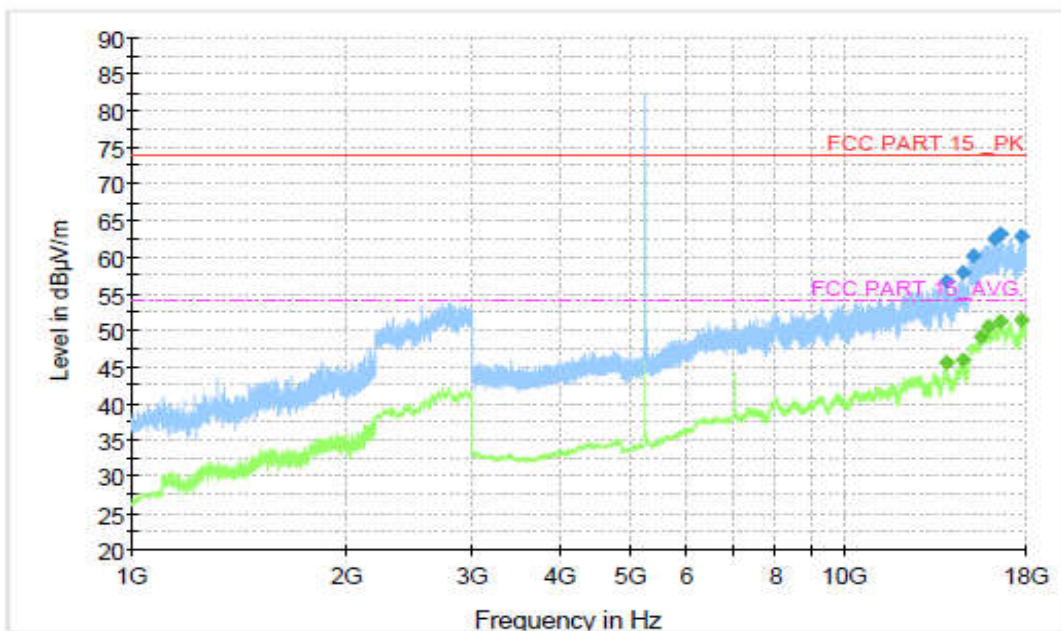


Fig. 13 Transmitter Spurious Emission (802.11n-HT20, 5260MHz)

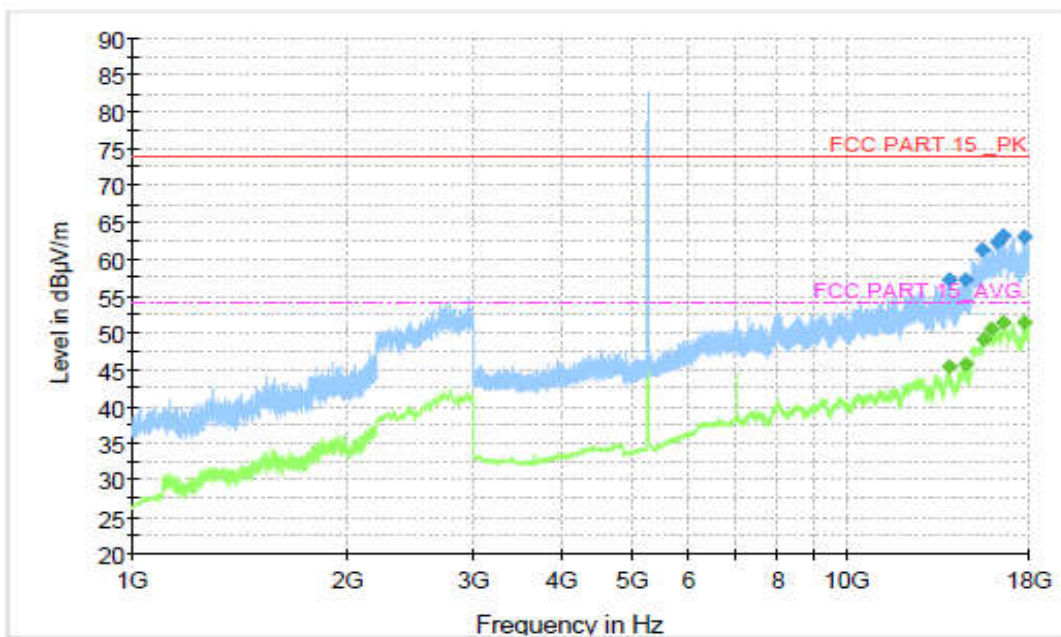


Fig. 14 Transmitter Spurious Emission (802.11n-HT20, 5280MHz)

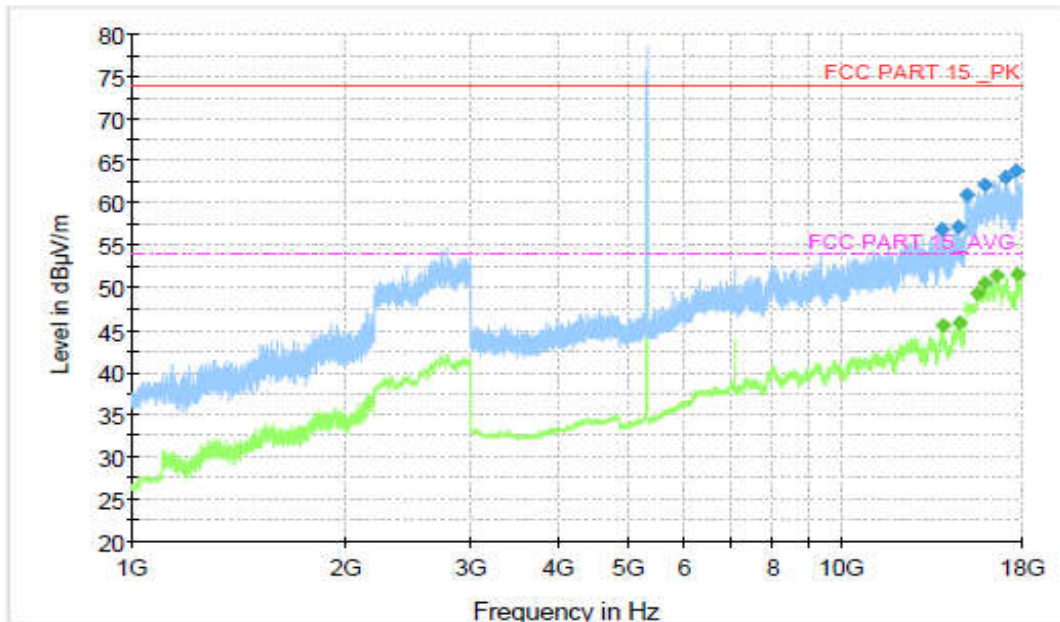


Fig. 15 Transmitter Spurious Emission (802.11n-HT20, 5320MHz)

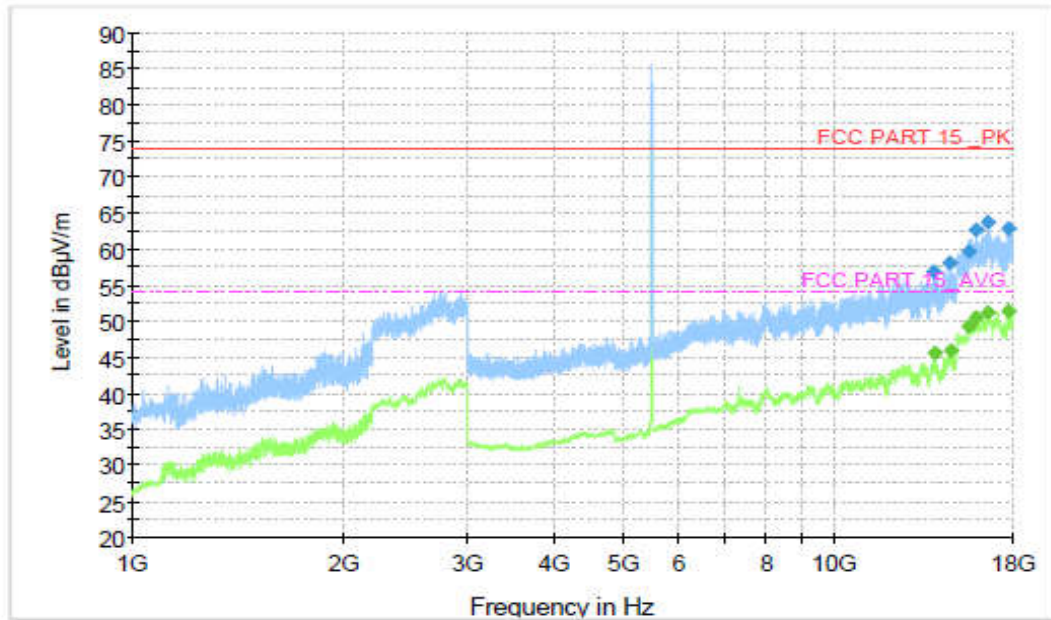


Fig. 16 Transmitter Spurious Emission (802.11n-HT20, 5500MHz)

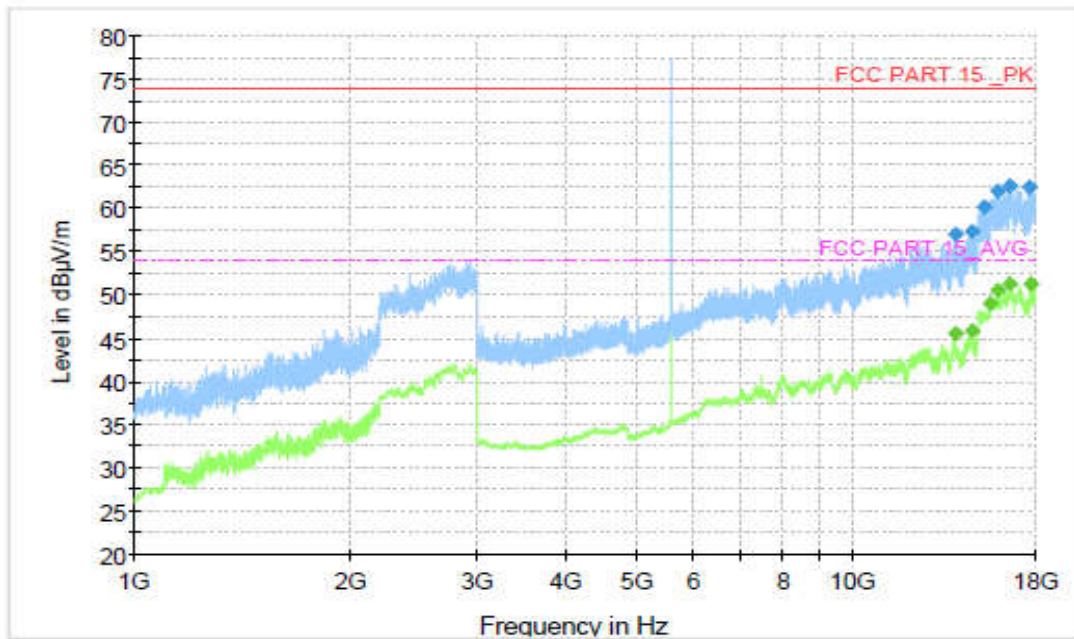


Fig. 17 Transmitter Spurious Emission (802.11n-HT20, 5600MHz)

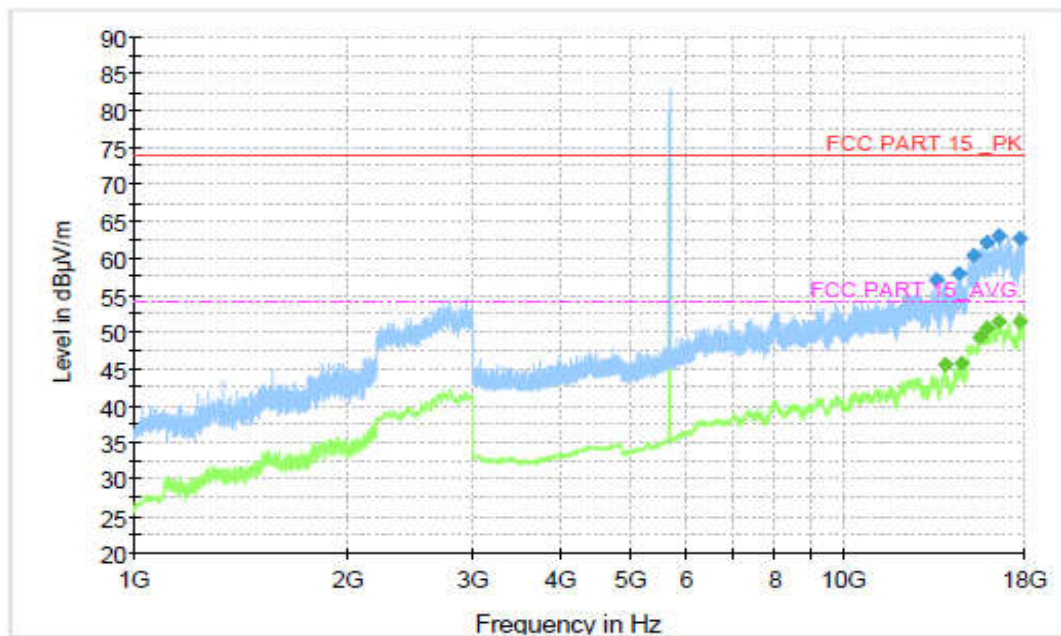


Fig. 18 Transmitter Spurious Emission (802.11n-HT20, 5700MHz)

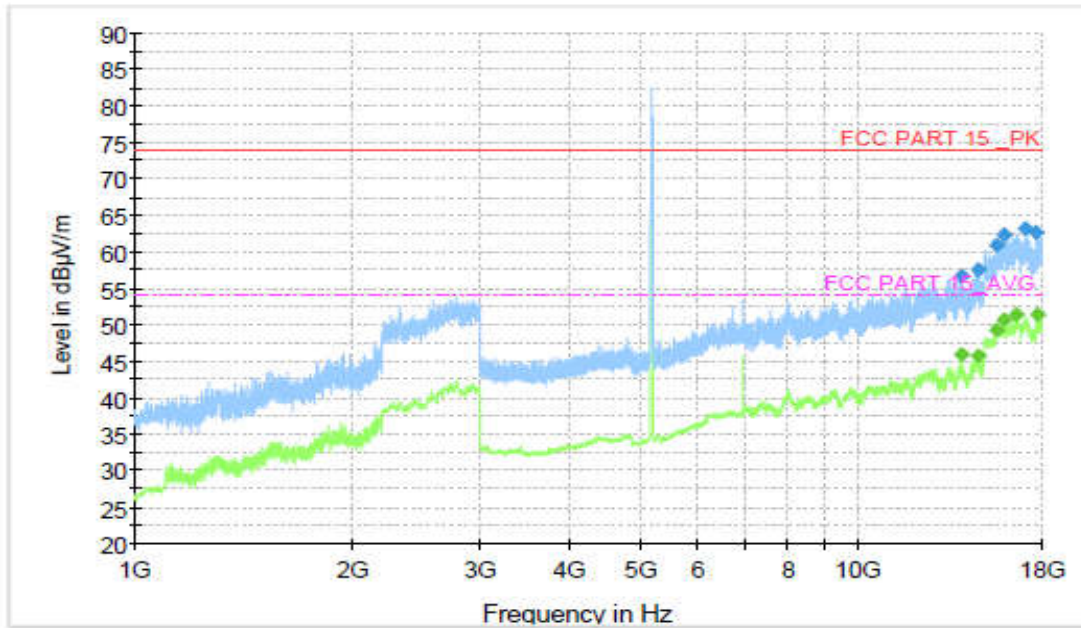


Fig. 19 Transmitter Spurious Emission (802.11n-HT40, 5190MHz)

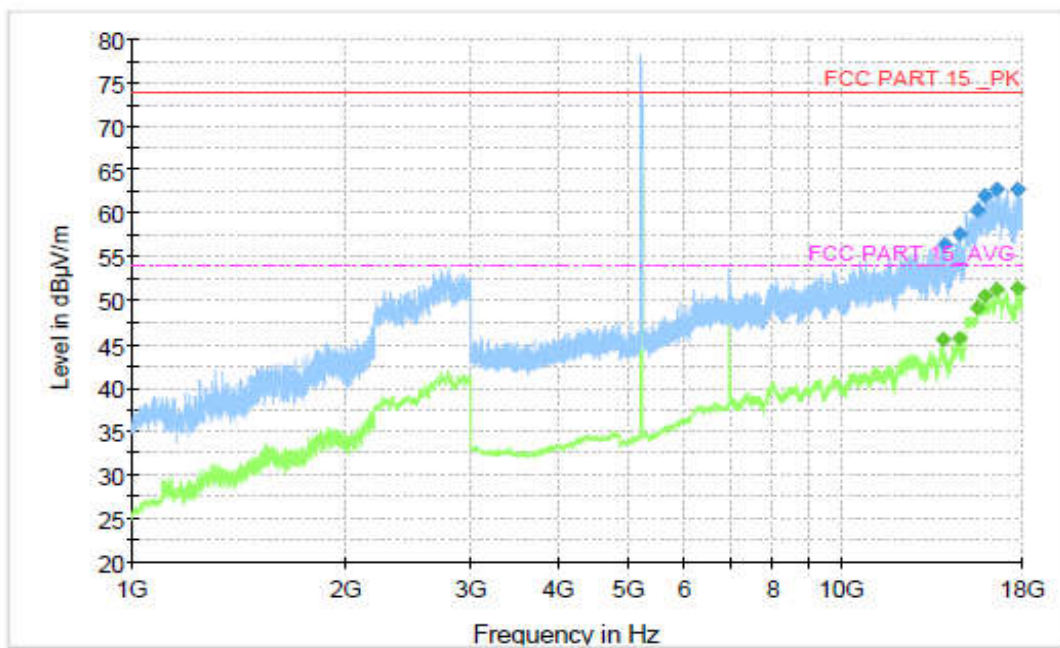


Fig. 20 Transmitter Spurious Emission (802.11n-HT40, 5230MHz)

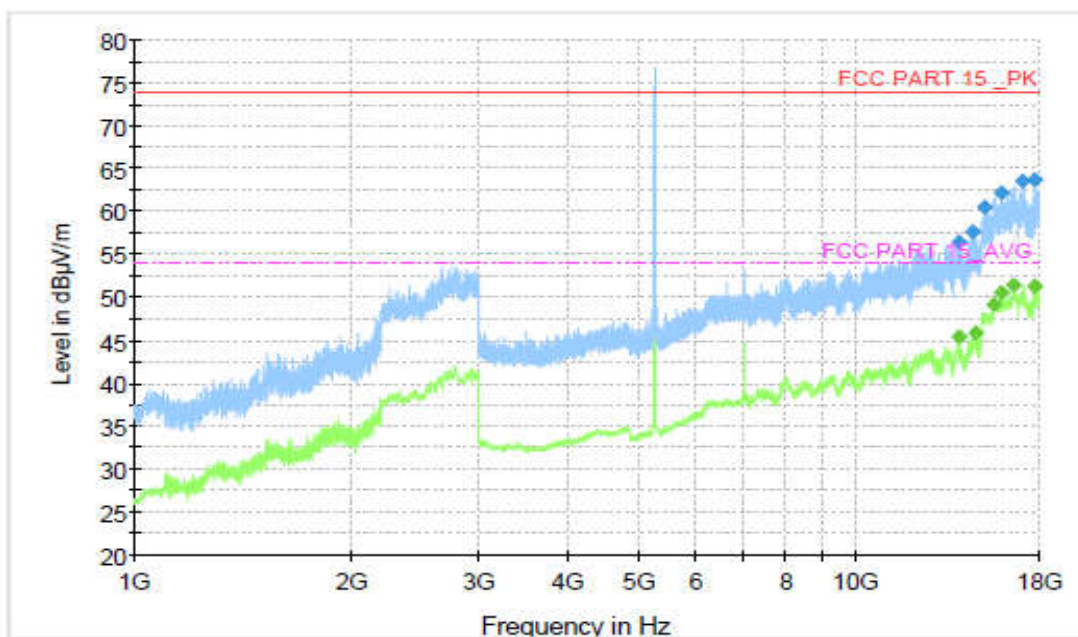


Fig. 21 Transmitter Spurious Emission (802.11n-HT40, 5270MHz)

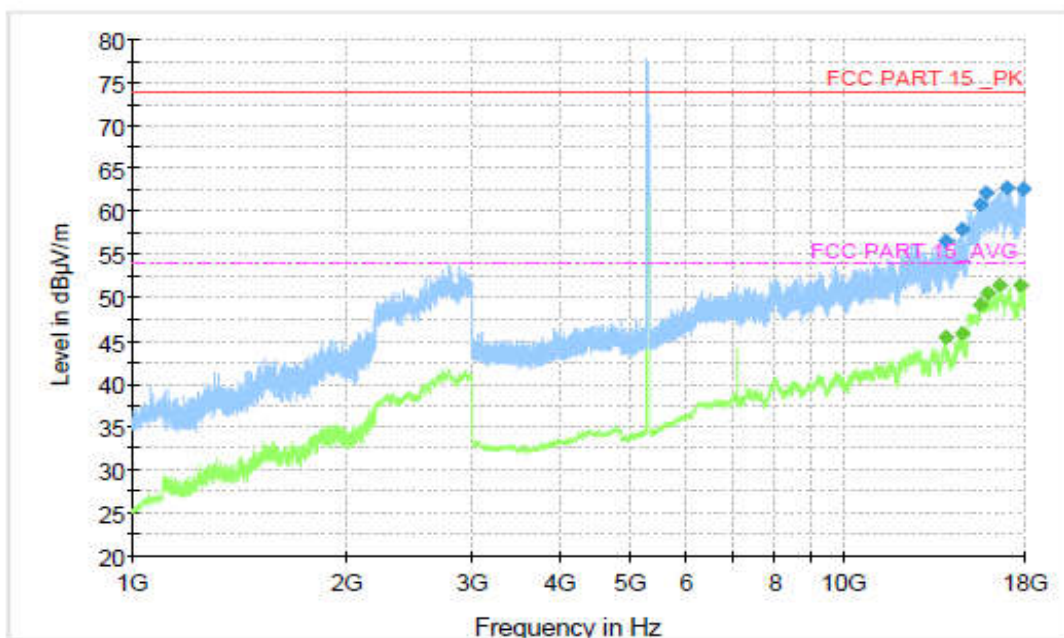


Fig. 22 Transmitter Spurious Emission (802.11n-HT40, 5310MHz)

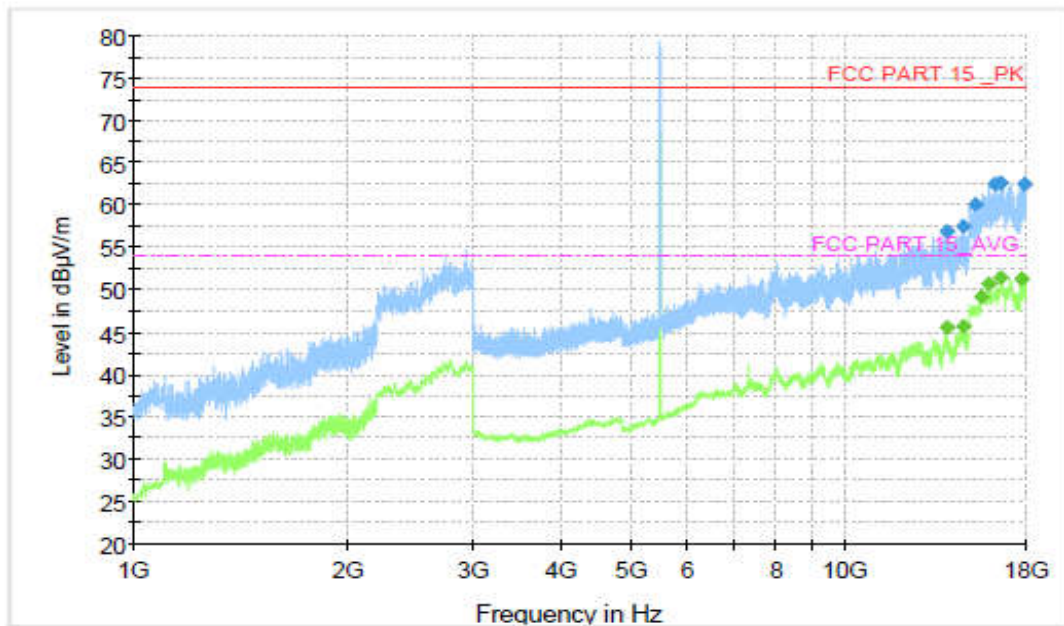


Fig. 23 Transmitter Spurious Emission (802. 11n-HT40, 5510MHz)

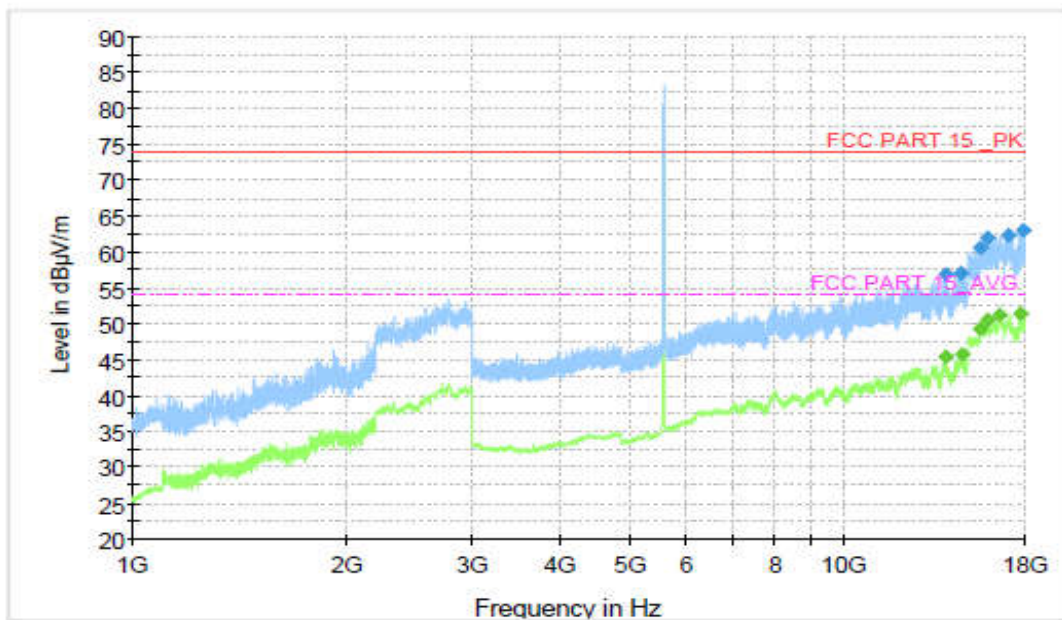


Fig. 24 Transmitter Spurious Emission (802. 11n-HT40, 5590MHz)

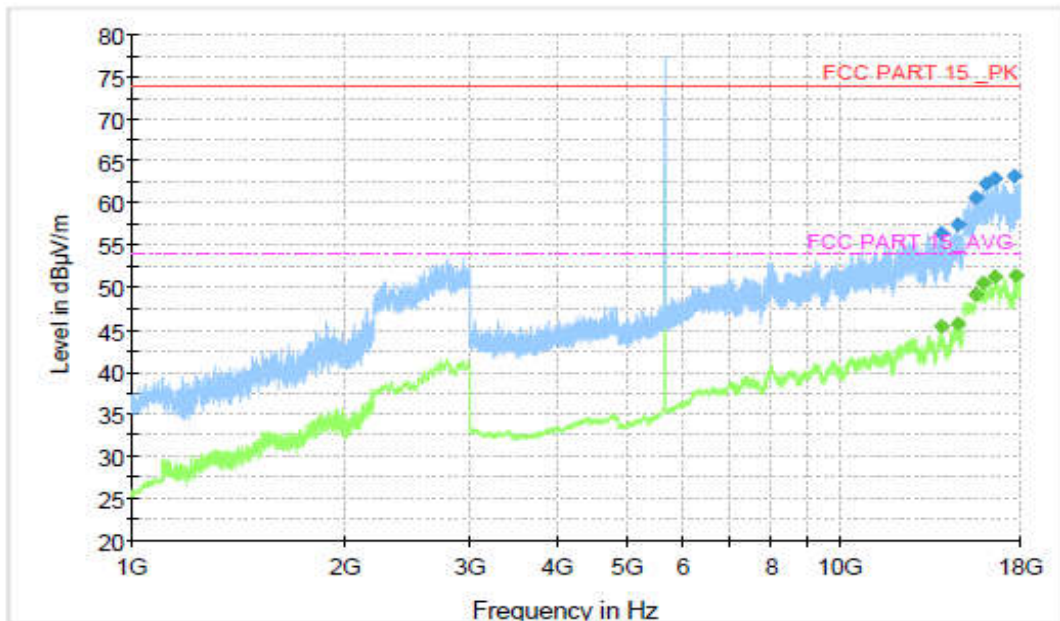


Fig. 25 Transmitter Spurious Emission (802. 11n-HT40, 5670MHz)

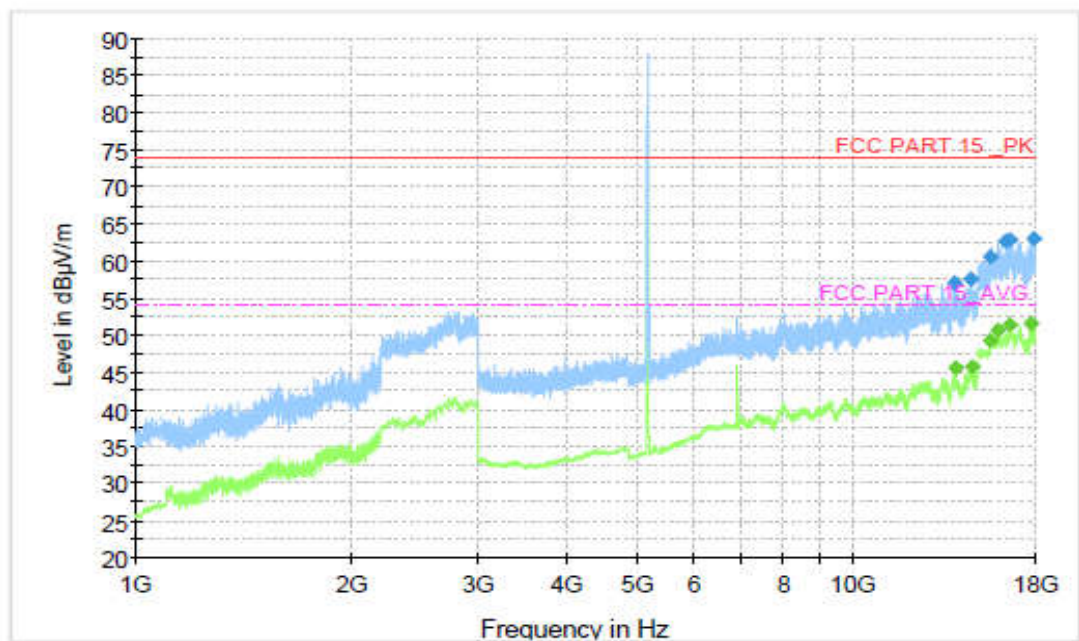


Fig. 26 Transmitter Spurious Emission (802. 11ac-VHT20, 5180MHz)

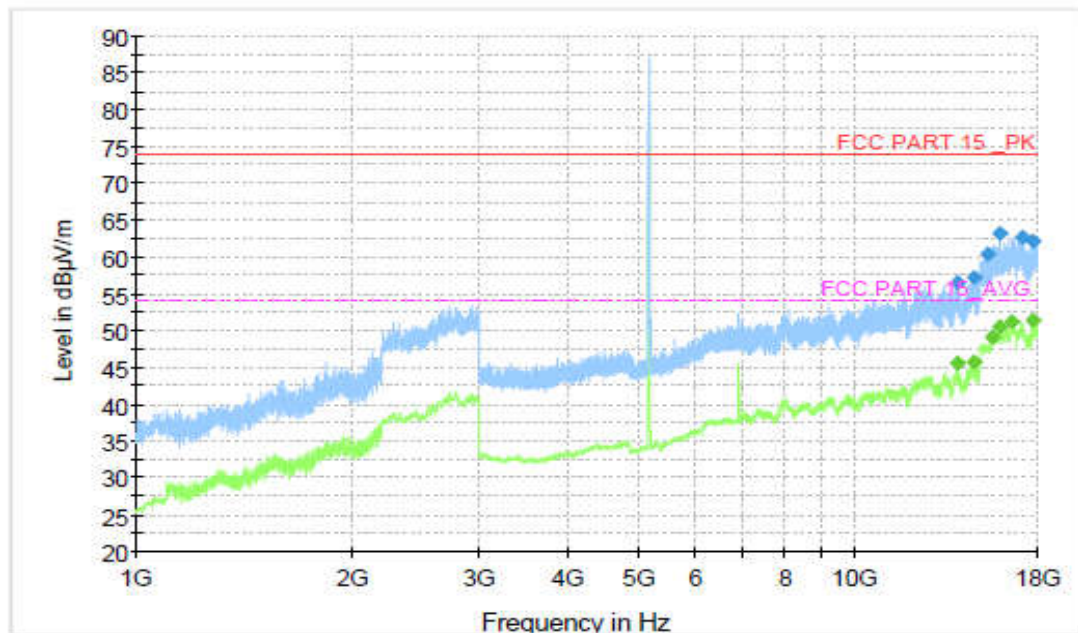


Fig. 27 Transmitter Spurious Emission (802. 11ac-VHT20, 5200MHz)

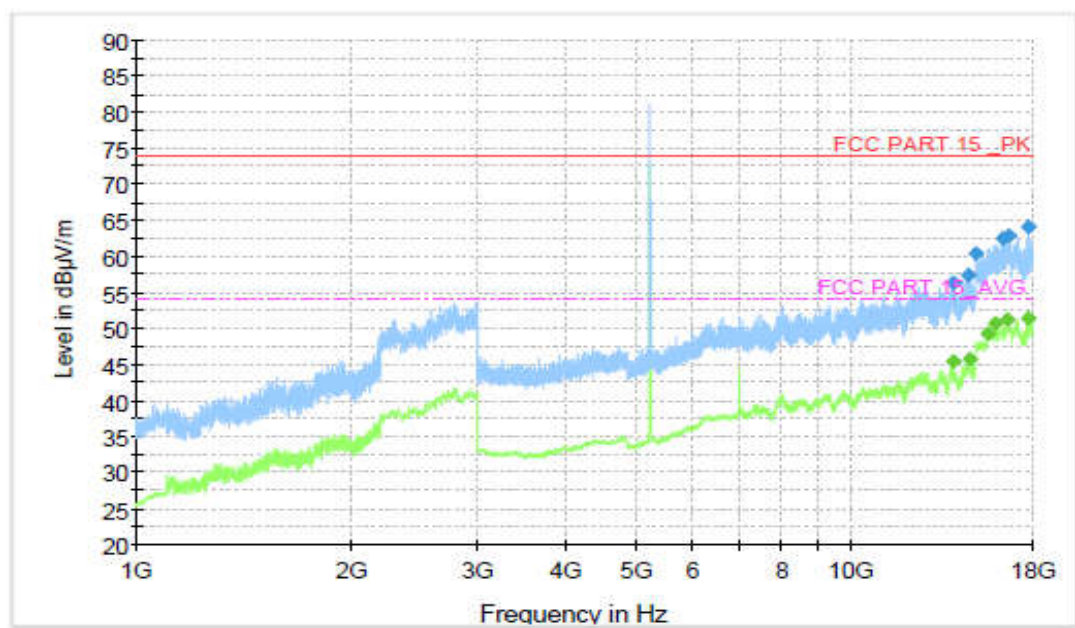


Fig. 28 Transmitter Spurious Emission (802. 11ac-VHT20, 5240MHz)

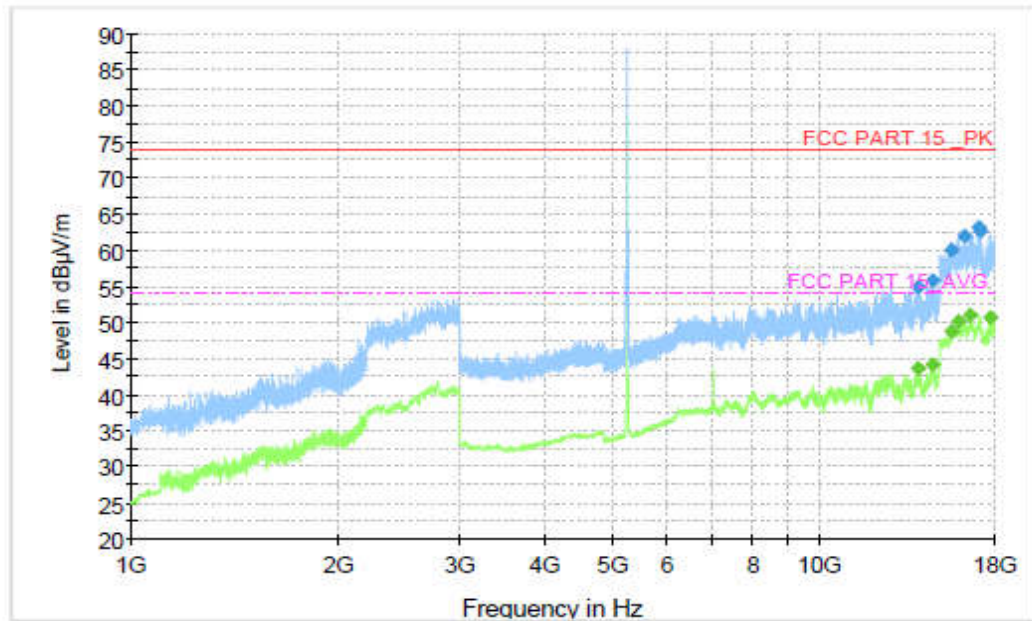


Fig. 29 Transmitter Spurious Emission (802.11ac-VHT20, 5260MHz)

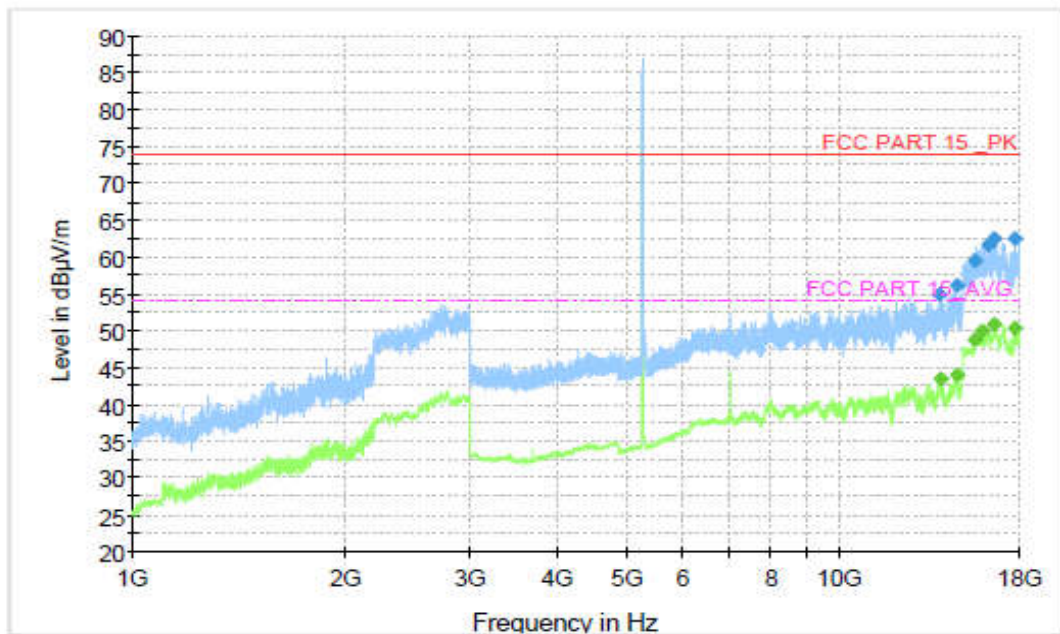


Fig. 30 Transmitter Spurious Emission (802.11ac-VHT20, 5280MHz)

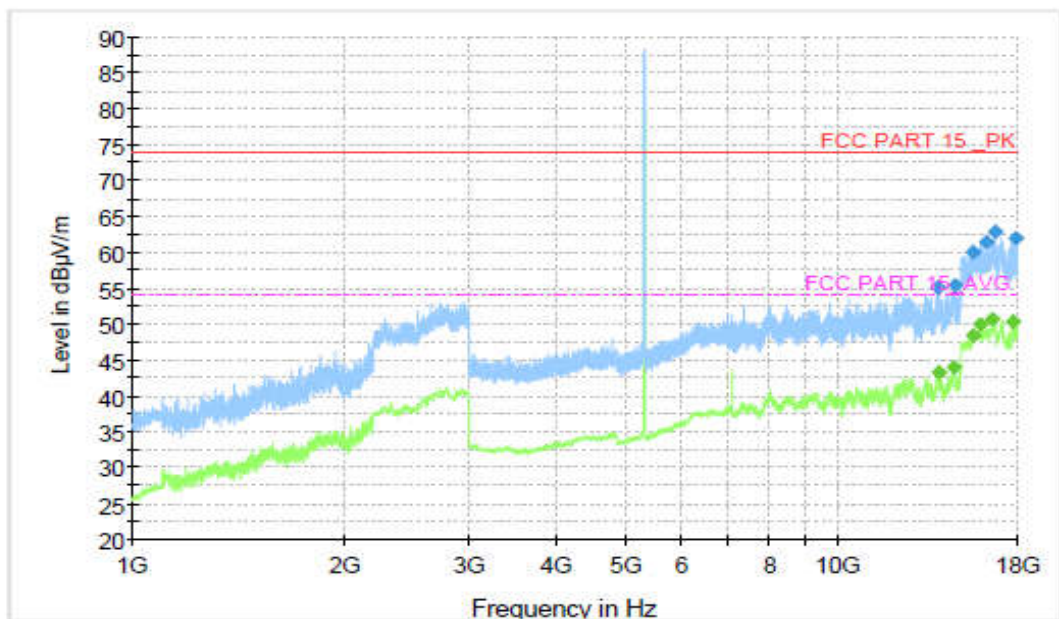


Fig. 31 Transmitter Spurious Emission (802.11ac-VHT20, 5320MHz)

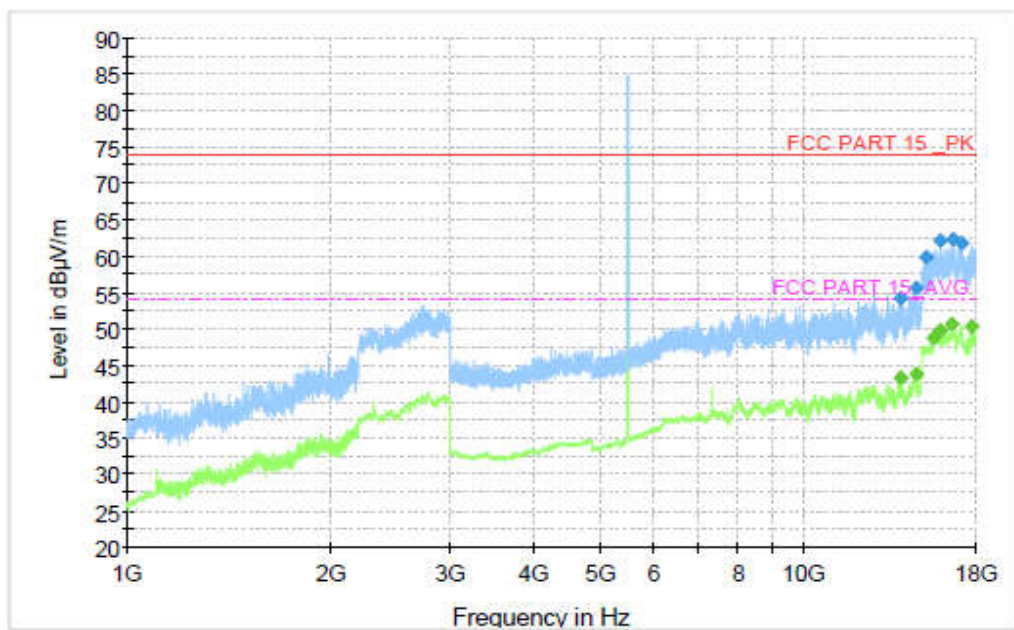


Fig. 32 Transmitter Spurious Emission (802.11ac-VHT20, 5500MHz)

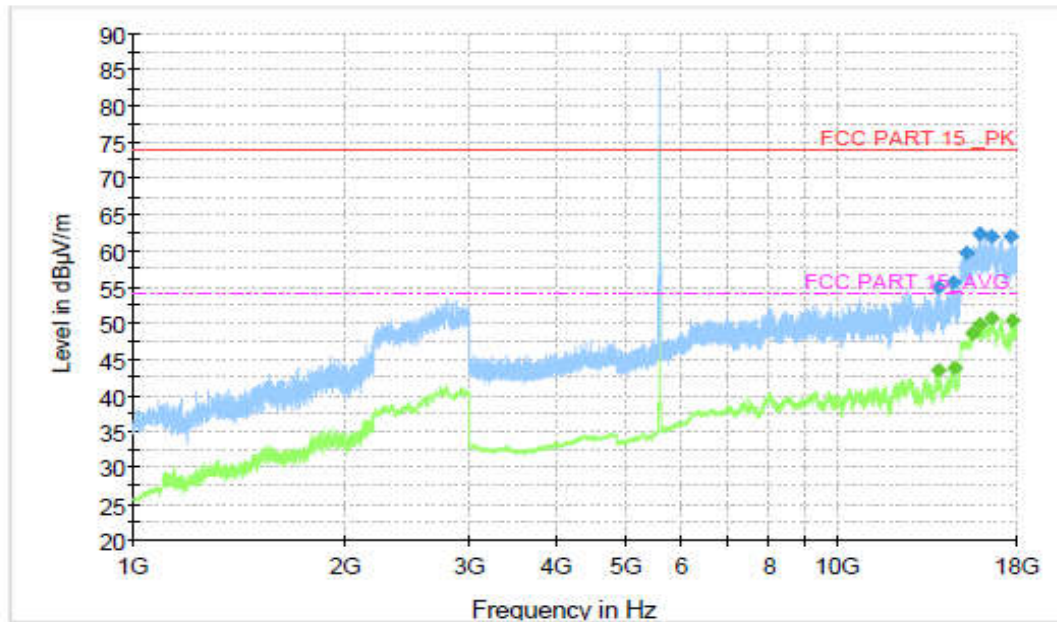


Fig. 33 Transmitter Spurious Emission (802. 11ac-VHT20, 5600MHz)

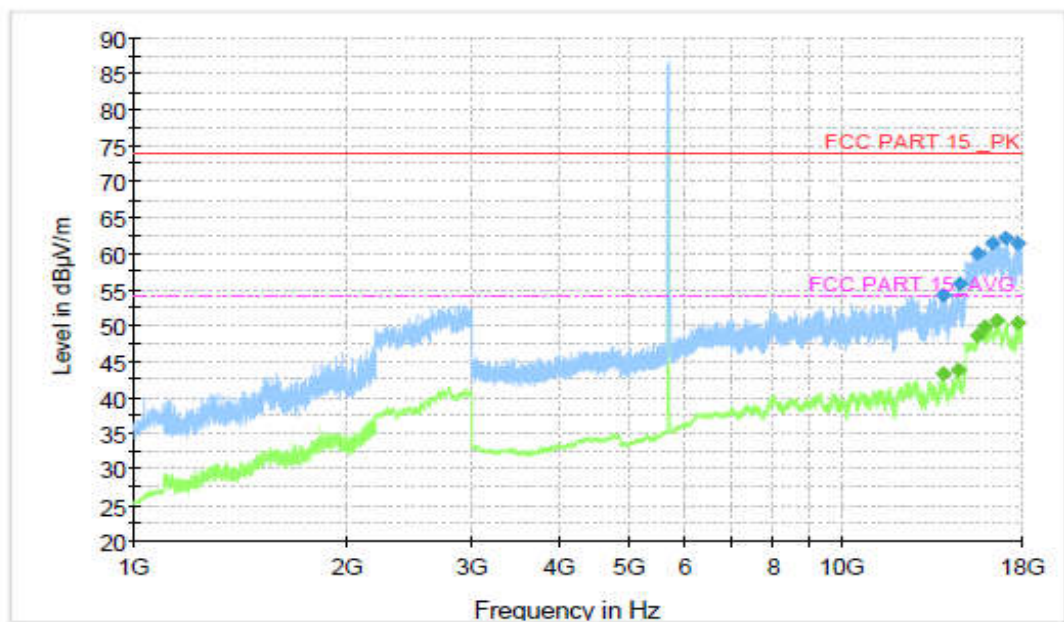


Fig. 34 Transmitter Spurious Emission (802. 11ac-VHT20, 5700MHz)

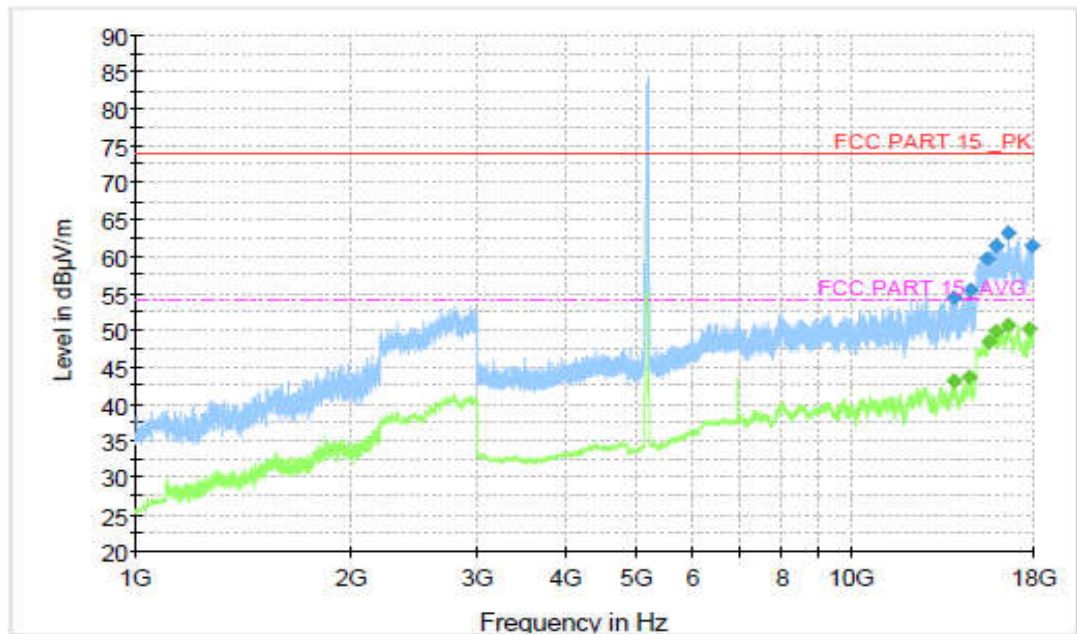


Fig. 35 Transmitter Spurious Emission (802.11ac-VHT40, 5190MHz)

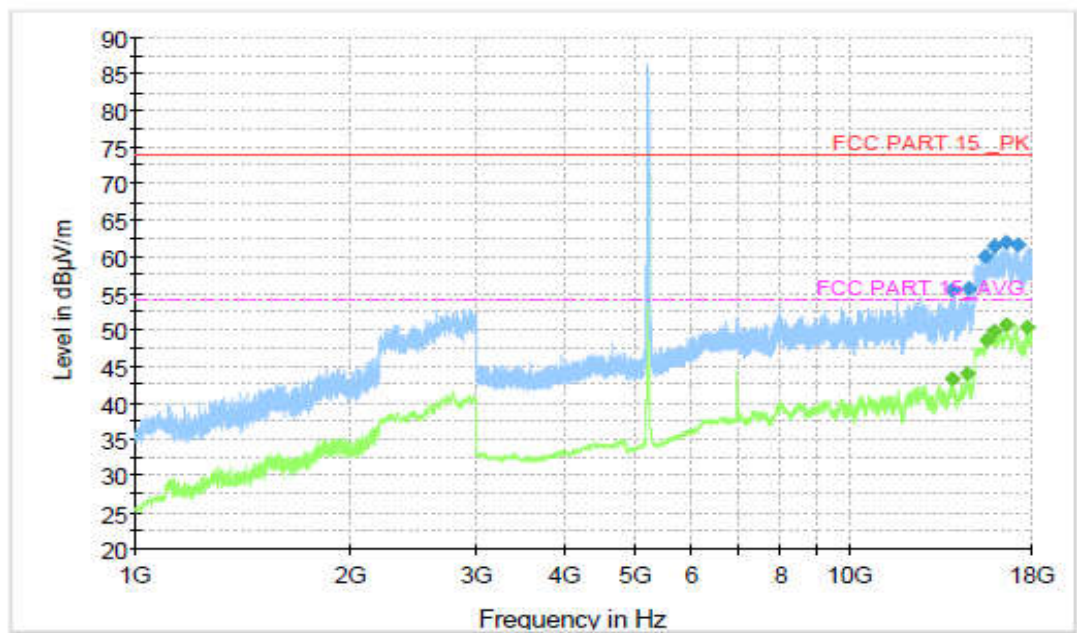


Fig. 36 Transmitter Spurious Emission (802.11ac-VHT40, 5230MHz)

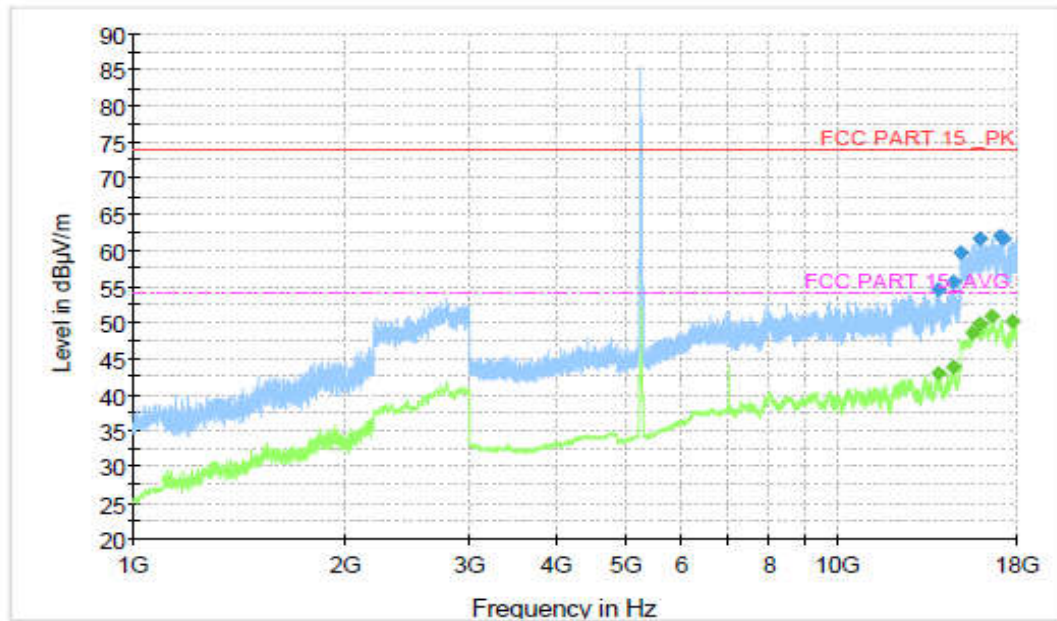


Fig. 37 Transmitter Spurious Emission (802. 11ac-VHT40, 5270MHz)

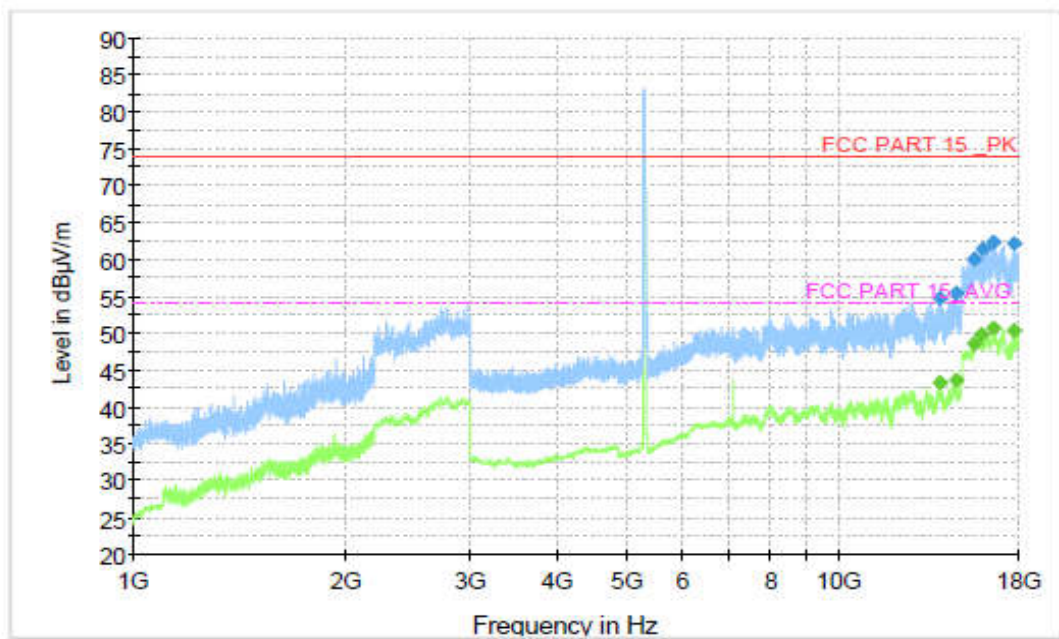


Fig. 38 Transmitter Spurious Emission (802. 11ac-VHT40, 5310MHz)

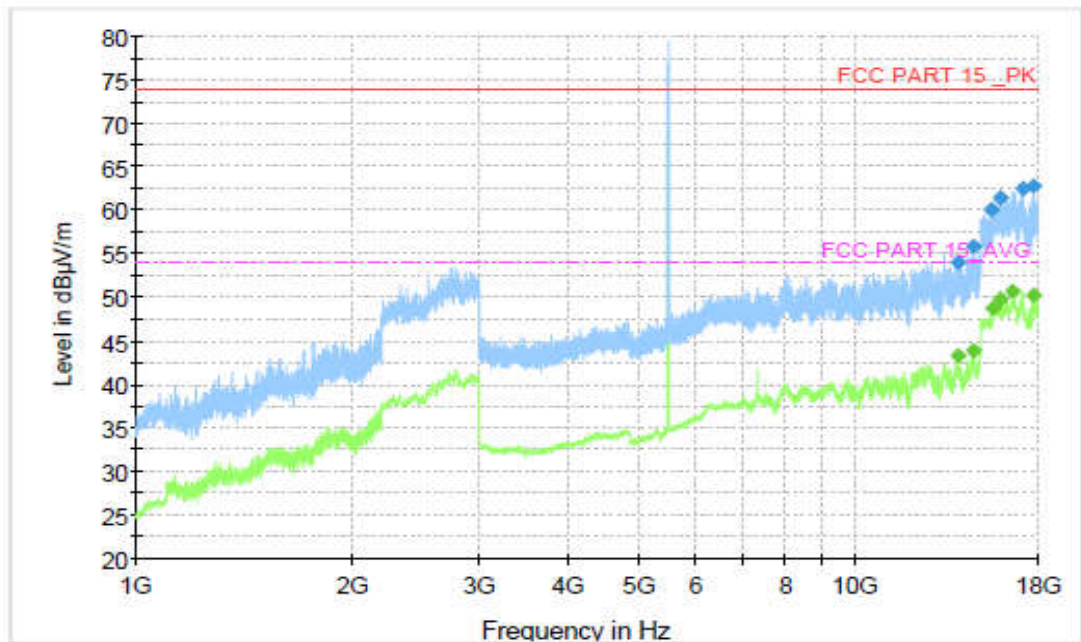


Fig. 39 Transmitter Spurious Emission (802. 11ac-VHT40, 5510MHz)

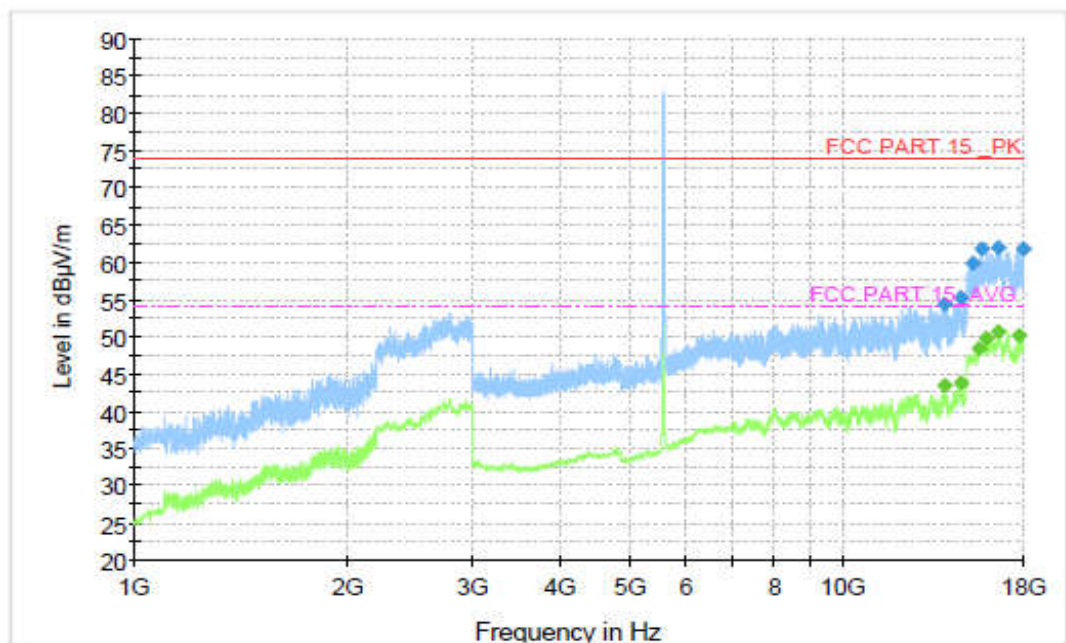


Fig. 40 Transmitter Spurious Emission (802. 11ac-VHT40, 5590MHz)

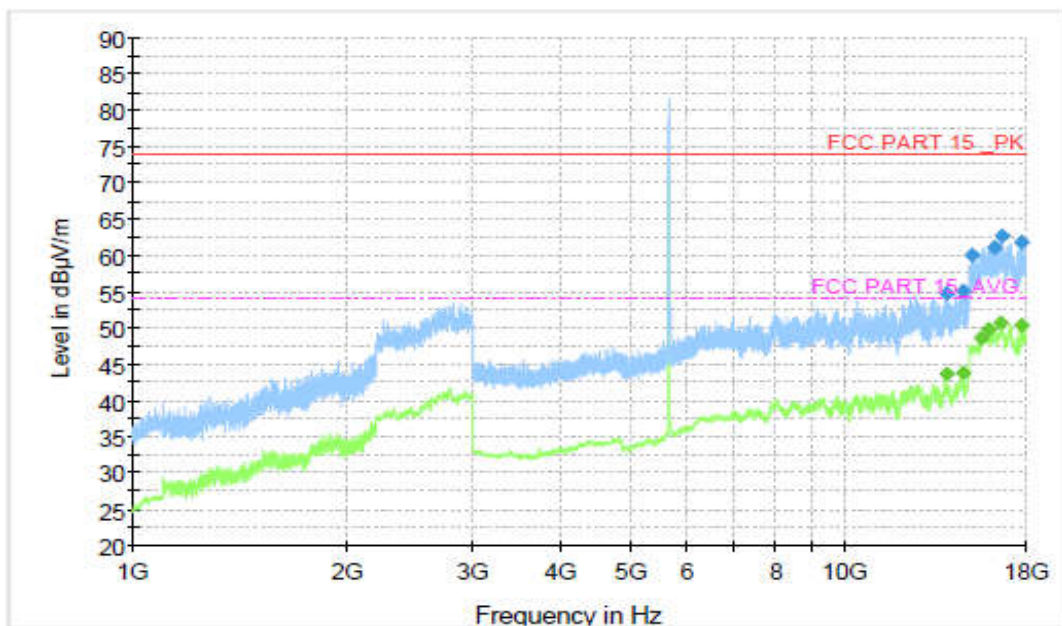


Fig. 41 Transmitter Spurious Emission (802. 11ac-VHT40, 5670MHz)

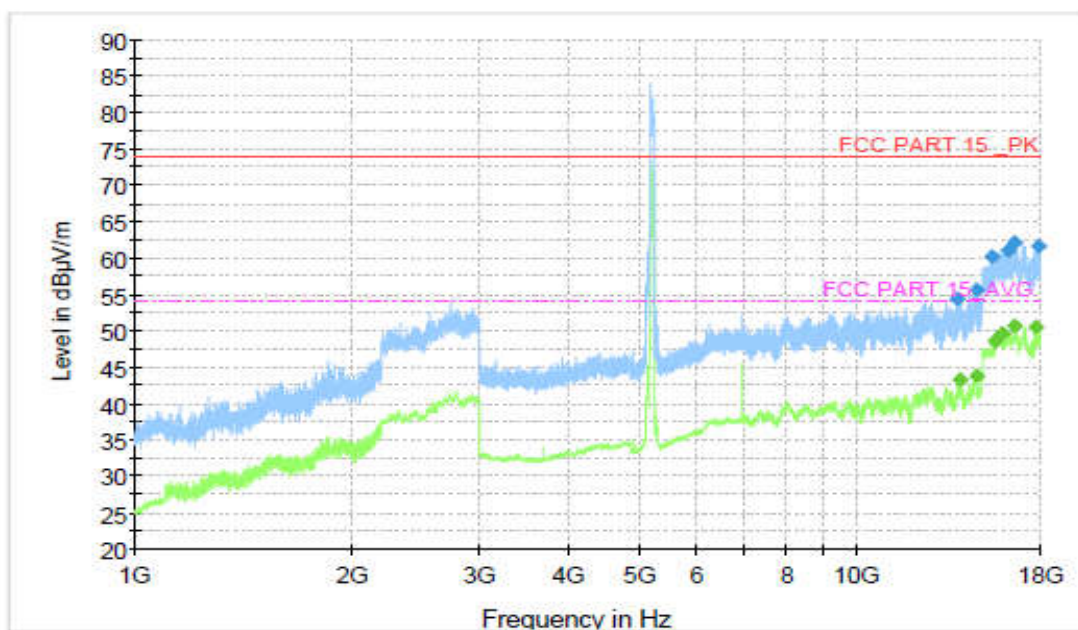


Fig. 42 Transmitter Spurious Emission (802. 11ac-VHT80, 5210MHz)

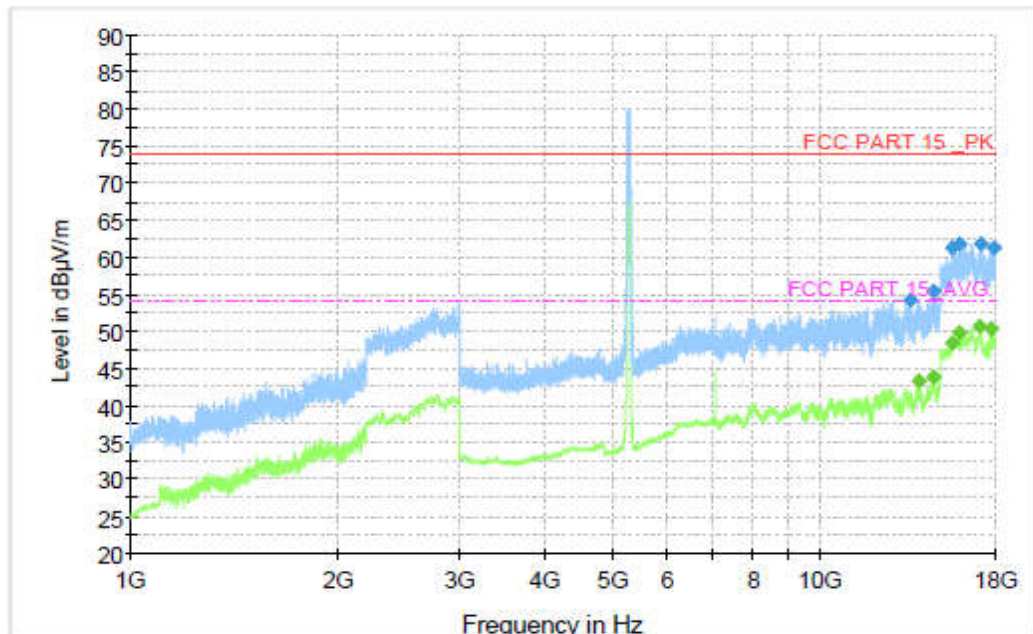


Fig. 43 Transmitter Spurious Emission (802. 11ac-VHT80, 5290MHz)

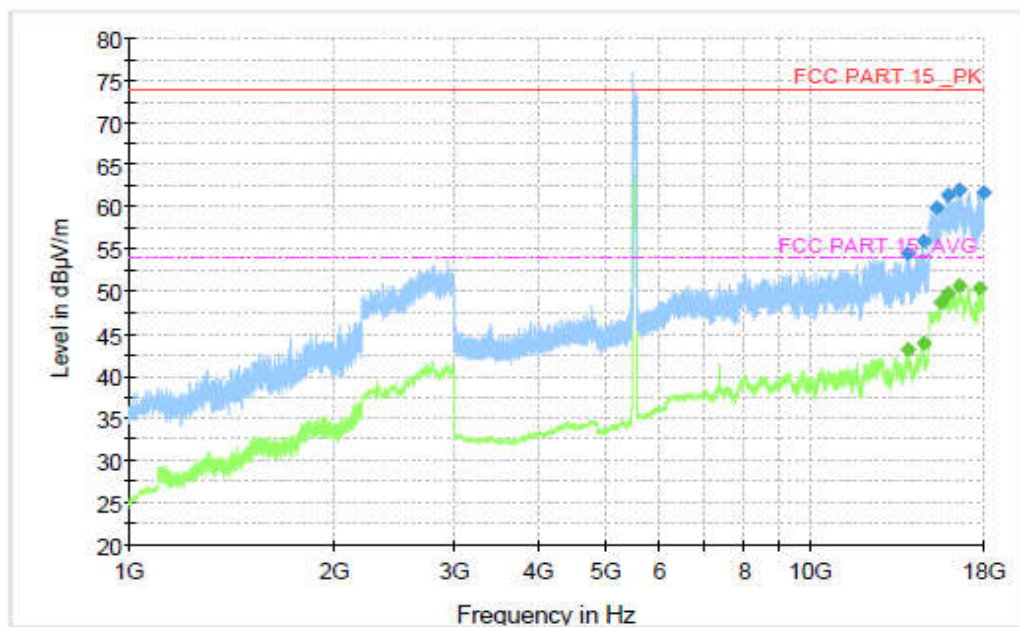


Fig. 44 Transmitter Spurious Emission (802. 11ac-VHT80, 5530MHz)

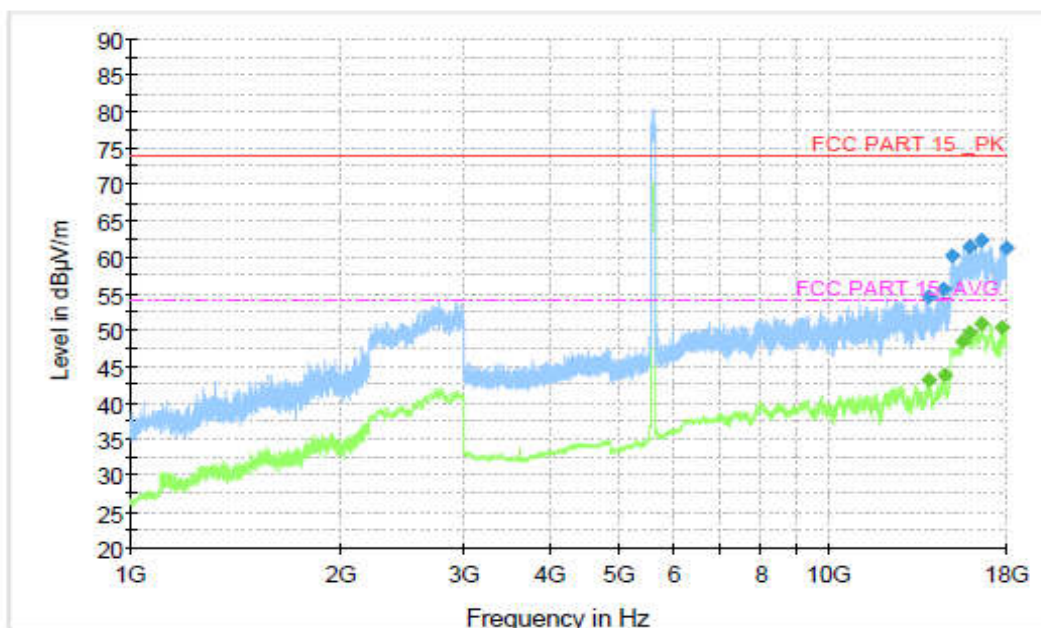


Fig. 45 Transmitter Spurious Emission (802.11ac-VHT80, 5610MHz)

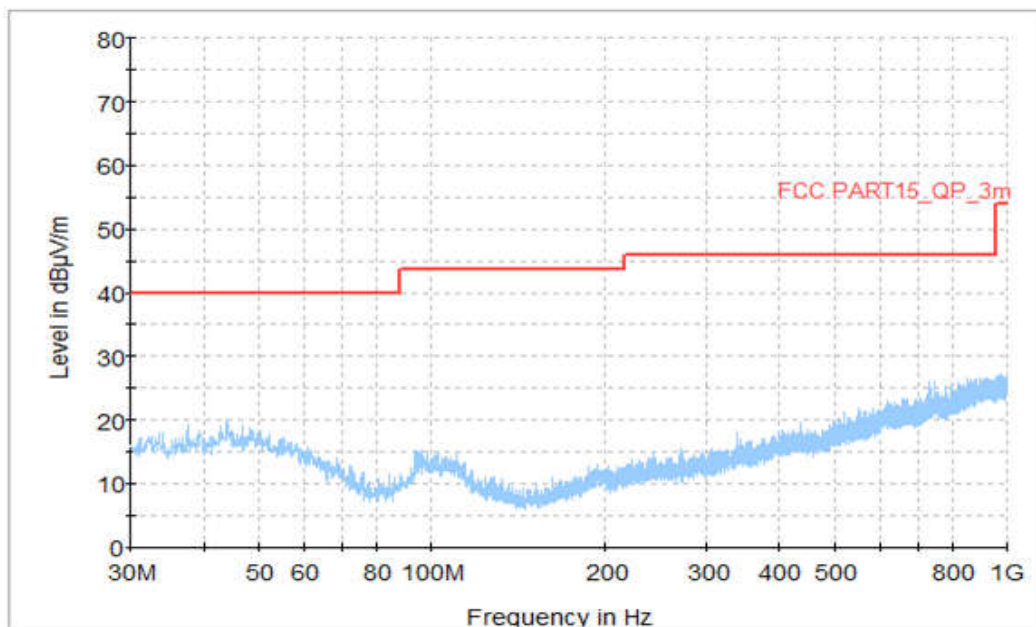


Fig. 46 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

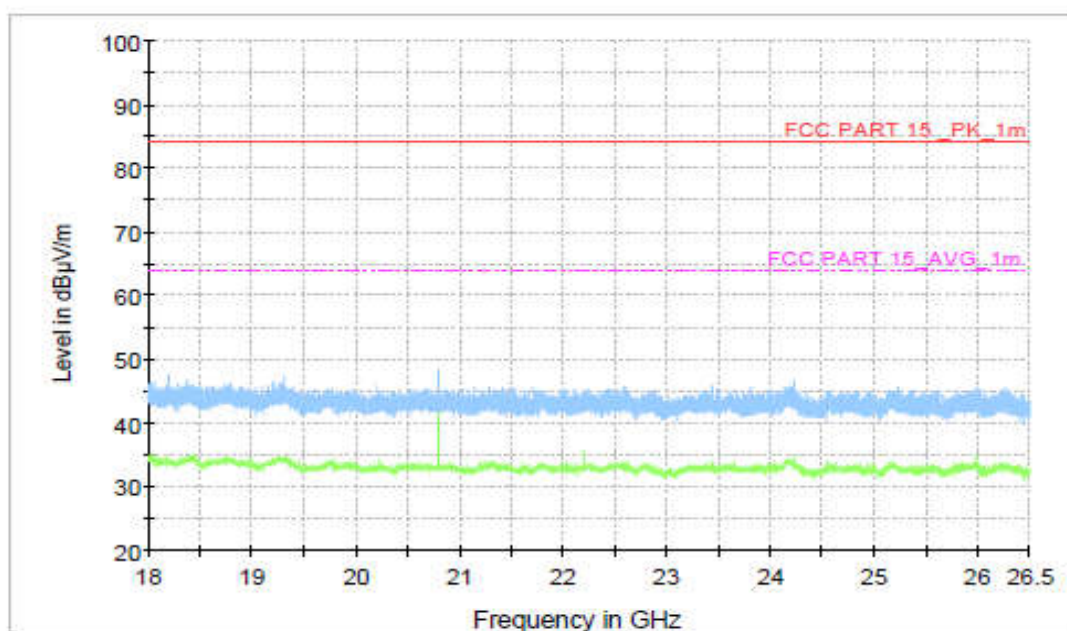


Fig. 47 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

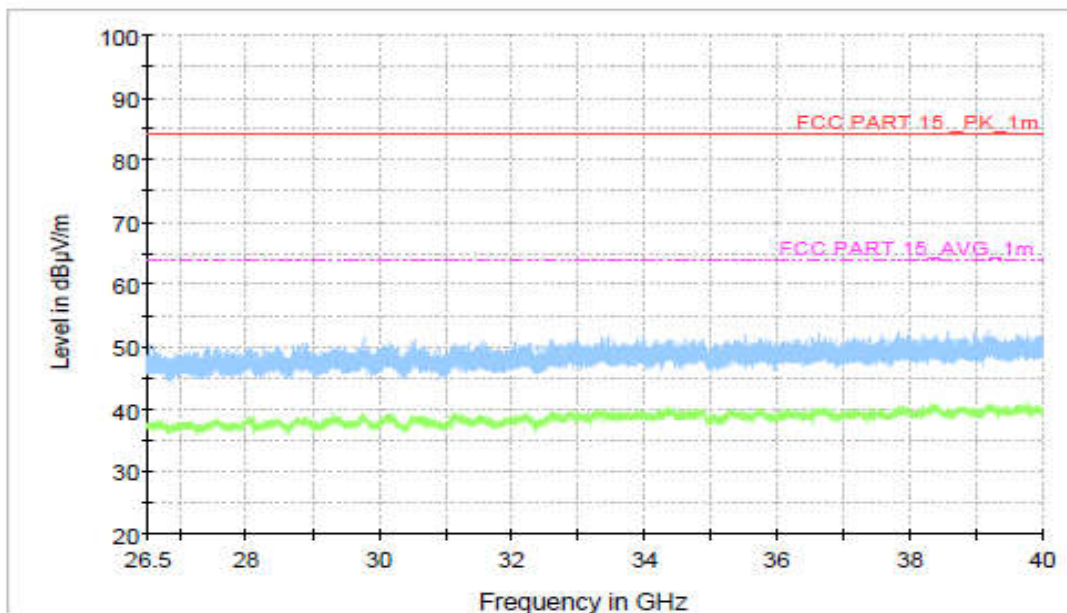


Fig. 48 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

Worst Case Result

802.11a CH36

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13878.000000	57.04	74.00	16.96	V	20.3
14682.000000	58.27	74.00	15.73	V	21.5
15455.000000	60.88	74.00	13.12	H	22.6
15968.000000	62.37	74.00	11.63	V	25.6
17105.000000	63.12	74.00	10.88	V	25.8
17711.000000	63.18	74.00	10.82	V	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.500000	45.19	54.00	8.81	H	21.0
14681.000000	45.83	54.00	8.17	H	21.5
15572.500000	49.09	54.00	4.91	V	23.7
15942.500000	50.58	54.00	3.42	V	24.9
16589.500000	51.28	54.00	2.72	V	26.3
17708.000000	51.31	54.00	2.69	V	27.6

802.11a CH40

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13912.500000	57.83	74.00	16.17	V	21.0
14712.000000	57.93	74.00	16.07	V	21.4
15562.000000	60.87	74.00	13.13	H	23.3
16168.500000	62.44	74.00	11.56	H	24.9
16620.500000	63.17	74.00	10.83	H	26.2
17896.000000	63.94	74.00	10.06	H	28.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	46.13	54.00	7.87	H	21.1
14692.000000	46.25	54.00	7.75	H	21.6
15576.500000	49.47	54.00	4.53	H	23.8
15967.500000	50.60	54.00	3.40	H	25.6
16585.500000	51.47	54.00	2.53	H	26.4
17709.000000	51.63	54.00	2.37	H	27.6

802.11a CH48

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	56.37	74.00	17.63	V	21.1
14685.000000	57.48	74.00	16.52	H	21.5
15571.000000	61.23	74.00	12.77	V	23.6
16305.000000	62.29	74.00	11.71	H	25.4
16597.000000	62.58	74.00	11.42	H	26.3
17676.500000	62.77	74.00	11.23	H	26.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	45.30	54.00	8.70	V	21.0
14660.500000	45.56	54.00	8.44	V	21.3
15576.000000	49.06	54.00	4.94	H	23.8
15940.500000	50.50	54.00	3.50	V	24.9
16592.500000	51.25	54.00	2.75	V	26.3
17718.000000	51.20	54.00	2.80	H	27.7

802.11a CH52

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13904.500000	56.71	74.00	17.29	V	20.8
14661.000000	57.84	74.00	16.16	V	21.3
15567.500000	60.26	74.00	13.74	V	23.5
15883.500000	61.88	74.00	12.12	H	24.0
16721.500000	63.16	74.00	10.84	H	25.3
17681.500000	63.02	74.00	10.98	H	27.1

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.24	54.00	8.76	V	21.1
14688.000000	45.50	54.00	8.50	H	21.6
15574.000000	49.31	54.00	4.69	V	23.7
15939.000000	50.54	54.00	3.46	H	24.9
16585.500000	51.25	54.00	2.75	V	26.4
17707.500000	51.41	54.00	2.59	V	27.6

802.11a CH56

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13823.500000	56.79	74.00	17.21	V	19.9
14580.500000	57.27	74.00	16.73	V	21.3
15574.000000	61.45	74.00	12.55	H	23.7
15932.000000	62.51	74.00	11.49	H	24.8
16642.500000	63.35	74.00	10.65	V	25.6
17996.000000	63.19	74.00	10.81	H	27.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	45.38	54.00	8.62	V	21.0
14688.500000	45.67	54.00	8.33	V	21.6
15575.500000	49.17	54.00	4.83	H	23.8
15964.000000	50.45	54.00	3.55	V	25.5
16584.000000	51.20	54.00	2.80	H	26.4
17702.500000	51.32	54.00	2.68	H	27.5

802.11a CH64

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
14046.000000	56.28	74.00	17.72	V	20.0
14462.000000	56.88	74.00	17.12	H	20.9
15574.500000	60.17	74.00	13.83	H	23.7
15934.500000	62.64	74.00	11.36	V	24.8
17133.500000	63.29	74.00	10.71	V	26.1
17705.000000	63.11	74.00	10.89	V	27.6

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.16	54.00	8.84	V	21.1
14692.000000	45.47	54.00	8.53	H	21.6
15574.000000	49.18	54.00	4.82	V	23.7
15936.000000	50.65	54.00	3.35	H	24.9
16593.500000	51.15	54.00	2.85	V	26.3
17700.500000	51.32	54.00	2.68	H	27.5

802.11a CH100

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13908.500000	57.47	74.00	16.53	H	21.1
14719.000000	57.18	74.00	16.82	H	21.5
15557.000000	61.27	74.00	12.73	V	23.3
16297.000000	62.23	74.00	11.77	H	25.2
16600.500000	63.08	74.00	10.92	H	26.2
17995.500000	62.59	74.00	11.41	H	27.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.35	54.00	8.65	V	21.1
14692.000000	45.62	54.00	8.38	V	21.6
15577.500000	49.21	54.00	4.79	V	23.8
15939.500000	50.58	54.00	3.42	H	24.9
16587.000000	51.29	54.00	2.71	H	26.3
17711.500000	51.34	54.00	2.66	H	27.7

802.11a CH120

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13883.000000	56.94	74.00	17.06	H	20.3
14592.500000	57.76	74.00	16.24	H	21.4
15022.500000	60.96	74.00	13.04	V	22.3
16056.000000	62.29	74.00	11.71	V	25.4
17134.500000	62.75	74.00	11.25	V	26.2
17721.000000	63.44	74.00	10.56	V	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.46	54.00	8.54	V	21.1
14692.500000	45.56	54.00	8.44	H	21.6
15574.000000	49.21	54.00	4.79	H	23.7
15967.000000	50.52	54.00	3.48	V	25.5
16595.000000	51.24	54.00	2.76	H	26.3
17704.500000	51.39	54.00	2.61	V	27.6

802.11a CH140

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13938.000000	57.17	74.00	16.83	V	20.1
14663.500000	57.59	74.00	16.41	H	21.3
15576.500000	60.82	74.00	13.18	H	23.8
15967.500000	62.31	74.00	11.69	H	25.6
17010.000000	63.36	74.00	10.64	V	26.6
17890.500000	63.36	74.00	10.64	V	28.2

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.65	54.00	8.35	V	21.1
14685.000000	45.64	54.00	8.36	H	21.5
15574.500000	49.17	54.00	4.83	H	23.7
15967.500000	50.78	54.00	3.22	H	25.6
16599.000000	51.28	54.00	2.72	V	26.3
17708.000000	51.34	54.00	2.66	H	27.6

802.11n-HT20 CH36

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13874.000000	56.77	74.00	17.23	H	20.2
14498.000000	57.70	74.00	16.30	H	21.0
15573.500000	60.90	74.00	13.10	V	23.7
15923.500000	63.02	74.00	10.98	V	24.7
16586.000000	63.30	74.00	10.70	V	26.3
17711.000000	62.74	74.00	11.26	H	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.42	54.00	8.58	V	21.1
14693.000000	45.70	54.00	8.30	V	21.6
15575.000000	49.15	54.00	4.85	H	23.7
15939.000000	50.39	54.00	3.61	H	24.9
16584.000000	51.33	54.00	2.67	V	26.4
17710.500000	51.32	54.00	2.68	H	27.7

802.11n-HT20 CH40

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13935.500000	56.53	74.00	17.47	V	20.2
14536.000000	57.90	74.00	16.10	V	20.7
15572.500000	60.23	74.00	13.77	H	23.7
15946.500000	62.46	74.00	11.54	V	24.8
16576.500000	63.43	74.00	10.57	H	26.3
17676.500000	62.92	74.00	11.09	H	26.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.52	54.00	8.48	V	21.1
14688.500000	45.75	54.00	8.25	H	21.6
15573.500000	49.12	54.00	4.88	V	23.7
15940.500000	50.59	54.00	3.41	H	24.9
16589.000000	51.24	54.00	2.76	H	26.3
17704.500000	51.37	54.00	2.63	H	27.6

802.11n-HT20 CH48

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13915.000000	56.96	74.00	17.04	V	20.8
14665.500000	58.84	74.00	15.16	H	21.3
15557.000000	60.51	74.00	13.49	V	23.3
15971.500000	62.60	74.00	11.40	H	25.5
16583.500000	63.07	74.00	10.93	H	26.4
17901.000000	62.96	74.00	11.04	H	28.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.49	54.00	8.51	H	21.1
14681.000000	45.99	54.00	8.01	V	21.5
15574.500000	49.24	54.00	4.76	V	23.7
15967.000000	50.57	54.00	3.43	H	25.5
16595.500000	51.34	54.00	2.66	V	26.3
17708.500000	51.43	54.00	2.57	H	27.6

802.11n-HT20 CH52

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13909.000000	56.74	74.00	17.26	H	21.1
14677.500000	57.90	74.00	16.10	H	21.4
15232.500000	60.22	74.00	13.78	H	23.1
16302.500000	62.46	74.00	11.54	H	25.4
16567.000000	63.14	74.00	10.86	H	25.9
17711.500000	62.81	74.00	11.19	V	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.51	54.00	8.49	V	21.1
14681.500000	45.98	54.00	8.02	V	21.5
15574.000000	49.17	54.00	4.83	V	23.7
15971.500000	50.49	54.00	3.51	H	25.5
16581.000000	51.30	54.00	2.70	V	26.4
17707.500000	51.41	54.00	2.59	H	27.6

802.11n-HT20 CH56

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	57.27	74.00	16.73	V	21.1
14705.500000	57.13	74.00	16.87	V	21.5
15471.500000	61.21	74.00	12.79	H	23.0
16258.500000	62.28	74.00	11.72	V	25.2
16577.500000	63.19	74.00	10.81	H	26.3
17715.000000	63.07	74.00	10.93	V	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.46	54.00	8.54	V	21.1
14682.000000	45.80	54.00	8.20	V	21.5
15570.000000	49.17	54.00	4.83	V	23.6
15970.000000	50.57	54.00	3.43	H	25.6
16593.000000	51.37	54.00	2.63	V	26.3
17711.000000	51.45	54.00	2.55	V	27.7

802.11n-HT20 CH64

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13904.500000	56.86	74.00	17.14	V	20.8
14629.000000	57.13	74.00	16.87	V	21.4
15035.500000	60.92	74.00	13.08	V	22.4
15958.000000	62.18	74.00	11.82	H	25.3
17105.500000	63.01	74.00	10.99	V	25.8
17683.500000	63.84	74.00	10.16	H	27.1

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.49	54.00	8.51	V	21.1
14692.500000	45.79	54.00	8.21	V	21.6
15574.500000	49.37	54.00	4.63	V	23.7
15940.500000	50.52	54.00	3.48	V	24.9
16589.500000	51.39	54.00	2.61	H	26.3
17705.000000	51.56	54.00	2.44	V	27.6

802.11n-HT20 CH100

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13842.500000	56.76	74.00	17.24	V	19.8
14600.000000	58.01	74.00	15.99	V	21.7
15570.500000	59.73	74.00	14.27	V	23.6
15963.500000	62.75	74.00	11.25	V	25.5
16585.500000	63.68	74.00	10.32	V	26.4
17711.500000	62.91	74.00	11.09	V	27.7

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.63	54.00	8.37	V	21.1
14692.000000	45.92	54.00	8.08	V	21.6
15576.500000	49.19	54.00	4.81	H	23.8
15931.500000	50.48	54.00	3.52	V	24.8
16581.500000	51.23	54.00	2.77	H	26.4
17706.500000	51.44	54.00	2.56	H	27.6

802.11n-HT20 CH120

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13924.500000	57.10	74.00	16.90	V	20.4
14705.500000	57.30	74.00	16.70	V	21.5
15289.500000	60.21	74.00	13.79	H	22.7
15957.000000	61.97	74.00	12.03	H	25.2
16608.500000	62.66	74.00	11.34	H	26.0
17670.000000	62.44	74.00	11.56	H	26.3

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.57	54.00	8.43	H	21.1
14685.000000	45.85	54.00	8.15	V	21.5
15576.000000	49.08	54.00	4.92	H	23.8
15942.500000	50.58	54.00	3.42	V	24.9
16583.000000	51.25	54.00	2.75	V	26.4
17704.500000	51.33	54.00	2.67	V	27.6

802.11n-HT20 CH140

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13541.000000	57.07	74.00	16.93	V	20.4
14532.000000	57.93	74.00	16.07	V	20.7
15253.000000	60.33	74.00	13.67	V	23.1
15966.500000	62.22	74.00	11.78	H	25.5
16582.500000	62.97	74.00	11.03	V	26.4
17716.000000	62.74	74.00	11.26	H	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	45.59	54.00	8.41	H	21.0
14682.000000	45.82	54.00	8.18	V	21.5
15574.500000	49.27	54.00	4.73	H	23.7
15943.000000	50.54	54.00	3.46	H	24.9
16584.500000	51.46	54.00	2.54	V	26.4
17708.500000	51.30	54.00	2.70	V	27.6

802.11n HT40 CH38

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13922.000000	56.65	74.00	17.35	V	20.4
14686.000000	57.52	74.00	16.48	V	21.5
15576.500000	60.99	74.00	13.01	H	23.8
15926.500000	62.32	74.00	11.68	H	24.8
17108.000000	63.19	74.00	10.81	H	26.1
17685.000000	62.70	74.00	11.30	V	27.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.86	54.00	8.14	V	21.1
14688.000000	45.82	54.00	8.18	V	21.6
15576.000000	49.22	54.00	4.78	H	23.8
15941.000000	50.62	54.00	3.38	H	24.9
16586.000000	51.36	54.00	2.64	H	26.3
17701.000000	51.34	54.00	2.66	H	27.5

802.11n HT40 CH46

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
14037.000000	56.36	74.00	17.64	H	20.0
14677.000000	57.69	74.00	16.31	V	21.4
15575.000000	60.29	74.00	13.71	H	23.7
15962.500000	62.04	74.00	11.96	H	25.4
16620.000000	62.76	74.00	11.24	H	26.2
17702.000000	62.81	74.00	11.19	H	27.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.56	54.00	8.44	H	21.1
14688.000000	45.72	54.00	8.28	H	21.6
15573.500000	49.23	54.00	4.77	H	23.7
15940.000000	50.60	54.00	3.40	H	24.9
16584.500000	51.33	54.00	2.67	V	26.4
17714.500000	51.39	54.00	2.61	H	27.7

802.11n HT40 CH54

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	56.49	74.00	17.51	H	21.0
14565.500000	57.59	74.00	16.41	H	20.8
15124.000000	60.47	74.00	13.53	H	22.3
15937.000000	62.17	74.00	11.83	H	24.9
17057.500000	63.54	74.00	10.46	V	25.8
17704.000000	63.62	74.00	10.38	H	27.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	45.45	54.00	8.55	V	21.0
14678.000000	45.87	54.00	8.13	V	21.4
15572.500000	49.19	54.00	4.81	V	23.7
15942.000000	50.54	54.00	3.46	V	24.9
16587.500000	51.43	54.00	2.57	H	26.3
17701.000000	51.36	54.00	2.64	H	27.5

802.11n HT40 CH62

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	56.63	74.00	17.37	H	21.0
14692.000000	57.95	74.00	16.05	H	21.6
15574.000000	60.81	74.00	13.19	V	23.7
15913.000000	62.19	74.00	11.81	V	24.4
16992.500000	62.84	74.00	11.16	V	26.4
17903.500000	62.69	74.00	11.31	H	28.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.44	54.00	8.56	H	21.1
14692.000000	45.88	54.00	8.12	H	21.6
15573.000000	49.24	54.00	4.76	H	23.7
15970.000000	50.58	54.00	3.42	V	25.6
16589.000000	51.40	54.00	2.60	V	26.3
17711.500000	51.45	54.00	2.55	H	27.7

802.11n HT40 CH102

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13913.500000	56.93	74.00	17.07	V	20.9
14680.000000	57.52	74.00	16.48	V	21.4
15293.000000	60.11	74.00	13.89	V	22.7
16297.500000	62.52	74.00	11.48	H	25.2
16593.000000	62.66	74.00	11.34	V	26.3
17899.000000	62.45	74.00	11.55	V	28.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.54	54.00	8.46	H	21.1
14682.000000	45.68	54.00	8.32	V	21.5
15571.500000	49.21	54.00	4.79	H	23.6
15939.500000	50.62	54.00	3.38	V	24.9
16584.000000	51.41	54.00	2.59	H	26.4
17707.500000	51.30	54.00	2.70	V	27.6

802.11n HT40 CH118

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13931.500000	56.88	74.00	17.12	H	20.4
14647.000000	57.00	74.00	17.00	V	21.3
15542.000000	60.56	74.00	13.44	V	22.9
15945.000000	62.02	74.00	11.98	V	24.8
17071.500000	62.34	74.00	11.66	H	25.8
17891.500000	62.97	74.00	11.03	H	28.2

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.46	54.00	8.54	V	21.1
14688.000000	45.68	54.00	8.32	V	21.6
15573.000000	49.29	54.00	4.71	H	23.7
15924.000000	50.57	54.00	3.43	H	24.7
16582.000000	51.26	54.00	2.74	H	26.4
17705.000000	51.37	54.00	2.63	H	27.6

802.11n HT40 CH134

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13912.000000	56.42	74.00	17.58	H	21.0
14682.500000	57.46	74.00	16.54	V	21.5
15576.000000	60.62	74.00	13.38	H	23.8
16072.000000	62.29	74.00	11.71	H	25.4
16585.000000	62.99	74.00	11.01	V	26.4
17695.000000	63.18	74.00	10.82	H	27.2

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	45.45	54.00	8.55	V	21.0
14688.500000	45.74	54.00	8.26	V	21.6
15576.500000	49.10	54.00	4.90	V	23.8
15937.000000	50.46	54.00	3.54	V	24.9
16587.000000	51.36	54.00	2.64	V	26.3
17708.000000	51.48	54.00	2.52	H	27.6

802.11ac VHT20 CH36

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13870.500000	57.06	74.00	16.94	H	20.2
14600.000000	57.63	74.00	16.37	V	21.7
15574.000000	60.55	74.00	13.45	V	23.7
16316.500000	62.59	74.00	11.41	H	25.7
16571.000000	62.79	74.00	11.21	H	26.2
17908.000000	62.97	74.00	11.03	H	28.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	45.58	54.00	8.42	V	21.1
14678.000000	45.76	54.00	8.24	V	21.4
15575.000000	49.20	54.00	4.80	V	23.7
15968.500000	50.64	54.00	3.36	V	25.6
16587.500000	51.37	54.00	2.63	V	26.3
17708.000000	51.52	54.00	2.49	V	27.6

802.11ac VHT20 CH40

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13912.000000	56.56	74.00	17.44	V	21.0
14706.500000	57.19	74.00	16.81	V	21.4
15353.500000	60.45	74.00	13.55	H	22.5
15936.500000	63.14	74.00	10.86	V	24.9
17139.000000	62.66	74.00	11.34	H	26.6
17710.000000	62.10	74.00	11.90	H	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.56	54.00	8.44	V	21.1
14688.000000	45.82	54.00	8.18	V	21.6
15574.500000	49.13	54.00	4.87	V	23.7
15969.000000	50.50	54.00	3.50	V	25.6
16599.000000	51.23	54.00	2.77	H	26.3
17711.000000	51.47	54.00	2.53	H	27.7

802.11ac VHT20 CH48

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	56.29	74.00	17.71	H	21.1
14610.500000	57.40	74.00	16.60	V	21.4
15013.000000	60.31	74.00	13.69	H	22.5
16314.000000	62.56	74.00	11.44	H	25.6
16679.500000	62.84	74.00	11.16	V	25.8
17722.500000	64.13	74.00	9.87	H	27.6

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.33	54.00	8.67	H	21.1
14688.500000	45.76	54.00	8.24	V	21.6
15573.500000	49.21	54.00	4.79	H	23.7
15971.000000	50.62	54.00	3.38	V	25.6
16585.500000	51.28	54.00	2.72	V	26.4
17720.000000	51.42	54.00	2.58	V	27.7

802.11ac VHT20 CH52

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	54.96	74.00	19.04	V	21.1
14638.000000	55.77	74.00	18.23	V	21.4
15571.000000	59.98	74.00	14.02	H	23.6
16277.000000	61.98	74.00	12.02	V	24.7
17110.000000	63.15	74.00	10.85	V	26.2
17170.500000	62.70	74.00	11.30	V	25.8

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13908.000000	43.66	54.00	10.34	H	21.0
14646.500000	44.20	54.00	9.80	H	21.3
15570.000000	48.78	54.00	5.22	V	23.6
15967.500000	50.09	54.00	3.91	V	25.6
16585.000000	50.96	54.00	3.04	H	26.4
17707.500000	50.62	54.00	3.38	V	27.6

802.11ac VHT20 CH56

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13894.500000	54.91	74.00	19.09	H	20.3
14688.000000	56.11	74.00	17.89	V	21.6
15545.500000	59.57	74.00	14.43	V	23.1
16274.000000	61.58	74.00	12.42	H	24.7
16586.500000	62.53	74.00	11.47	V	26.3
17714.000000	62.46	74.00	11.54	V	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	43.40	54.00	10.60	H	21.1
14681.000000	43.92	54.00	10.08	V	21.5
15571.000000	48.76	54.00	5.24	H	23.6
15929.000000	49.99	54.00	4.01	V	24.8
16583.000000	50.81	54.00	3.19	V	26.4
17715.000000	50.28	54.00	3.72	H	27.7

802.11ac VHT20 CH64

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13848.000000	55.03	74.00	18.97	H	20.0
14675.500000	55.37	74.00	18.63	V	21.4
15566.500000	60.04	74.00	13.96	H	23.5
16260.500000	61.49	74.00	12.51	H	25.2
16728.000000	62.86	74.00	11.14	H	25.0
17891.500000	61.99	74.00	12.01	H	28.2

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.28	54.00	10.72	H	21.1
14656.000000	44.00	54.00	10.00	V	21.3
15573.500000	48.44	54.00	5.56	V	23.7
15932.000000	49.91	54.00	4.09	V	24.8
16586.000000	50.71	54.00	3.29	H	26.3
17712.500000	50.31	54.00	3.69	V	27.7

802.11ac VHT20 CH100

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13912.000000	54.23	74.00	19.77	V	21.0
14689.500000	55.57	74.00	18.43	V	21.6
15191.500000	59.79	74.00	14.21	H	22.8
15918.500000	62.19	74.00	11.81	H	24.6
16646.500000	62.26	74.00	11.74	H	25.8
17160.500000	61.82	74.00	12.18	H	26.1

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.33	54.00	10.67	H	21.1
14688.500000	43.88	54.00	10.12	V	21.6
15570.500000	48.67	54.00	5.33	V	23.6
15927.500000	49.85	54.00	4.15	V	24.8
16585.500000	50.61	54.00	3.39	H	26.4
17711.000000	50.31	54.00	3.69	V	27.7

802.11ac VHT20 CH120

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13908.000000	54.91	74.00	19.09	V	21.0
14613.500000	55.69	74.00	18.31	H	21.5
15273.500000	59.67	74.00	14.33	V	22.8
15933.500000	62.33	74.00	11.67	V	24.8
16604.000000	62.02	74.00	11.98	H	26.1
17682.500000	61.89	74.00	12.11	H	27.1

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.500000	43.41	54.00	10.59	V	21.0
14681.000000	43.74	54.00	10.26	H	21.5
15574.000000	48.59	54.00	5.41	V	23.7
15935.500000	49.85	54.00	4.15	H	24.9
16596.000000	50.61	54.00	3.39	V	26.3
17704.500000	50.28	54.00	3.72	V	27.6

802.11ac VHT20 CH140

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13918.500000	54.17	74.00	19.83	H	20.5
14663.500000	55.80	74.00	18.20	H	21.3
15572.000000	59.98	74.00	14.02	V	23.6
16315.000000	61.46	74.00	12.54	V	25.6
17108.000000	62.10	74.00	11.90	H	26.1
17710.500000	61.48	74.00	12.52	H	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	43.26	54.00	10.74	V	21.1
14653.000000	43.72	54.00	10.28	V	21.2
15575.500000	48.51	54.00	5.49	V	23.8
15968.500000	49.83	54.00	4.17	H	25.6
16599.500000	50.66	54.00	3.34	V	26.3
17704.500000	50.27	54.00	3.73	H	27.6

802.11ac VHT40 CH38

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13917.500000	54.38	74.00	19.62	H	20.6
14704.000000	55.47	74.00	18.53	H	21.5
15486.000000	59.59	74.00	14.41	H	22.9
15938.000000	61.38	74.00	12.62	H	24.9
16621.000000	63.19	74.00	10.81	H	26.2
17892.500000	61.41	74.00	12.59	V	28.1

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.15	54.00	10.85	H	21.1
14656.000000	43.71	54.00	10.29	V	21.3
15570.500000	48.38	54.00	5.62	H	23.6
15942.000000	49.74	54.00	4.26	V	24.9
16585.000000	50.62	54.00	3.38	H	26.4
17708.000000	50.23	54.00	3.77	H	27.6

802.11ac VHT40 CH46

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	55.43	74.00	18.57	V	21.0
14678.000000	55.58	74.00	18.42	V	21.4
15473.500000	59.94	74.00	14.06	V	23.1
15934.500000	61.50	74.00	12.50	V	24.8
16596.500000	61.91	74.00	12.09	V	26.3
17231.500000	61.68	74.00	12.32	V	25.8

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.36	54.00	10.64	H	21.1
14656.000000	43.93	54.00	10.07	H	21.3
15574.500000	48.50	54.00	5.50	V	23.7
15928.500000	49.81	54.00	4.19	H	24.8
16593.000000	50.73	54.00	3.27	V	26.3
17720.500000	50.37	54.00	3.63	H	27.7

802.11ac VHT40 CH54

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13924.500000	54.51	74.00	19.49	V	20.4
14611.500000	55.59	74.00	18.41	V	21.4
15001.500000	59.71	74.00	14.29	H	22.3
15946.000000	61.58	74.00	12.42	H	24.8
17053.000000	61.90	74.00	12.10	V	25.7
17223.000000	61.60	74.00	12.40	H	25.4

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13924.500000	42.95	54.00	11.05	V	20.4
14656.000000	43.72	54.00	10.28	H	21.3
15573.000000	48.61	54.00	5.39	V	23.7
15940.000000	49.89	54.00	4.11	V	24.9
16586.000000	50.84	54.00	3.16	V	26.3
17701.000000	50.23	54.00	3.77	V	27.5

802.11ac VHT40 CH62

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.500000	54.79	74.00	19.21	H	21.0
14705.500000	55.41	74.00	18.59	V	21.5
15576.000000	60.01	74.00	13.99	V	23.8
16041.000000	61.51	74.00	12.49	V	24.8
16606.000000	62.26	74.00	11.74	V	26.1
17737.000000	62.13	74.00	11.87	V	26.8

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.23	54.00	10.77	H	21.1
14681.500000	43.62	54.00	10.38	H	21.5
15572.500000	48.49	54.00	5.51	V	23.7
15924.500000	49.74	54.00	4.26	H	24.7
16597.000000	50.66	54.00	3.34	H	26.3
17707.500000	50.36	54.00	3.64	H	27.6

802.11ac VHT40 CH102

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13921.500000	54.00	74.00	20.00	V	20.4
14631.000000	55.89	74.00	18.11	V	21.4
15515.500000	60.04	74.00	13.96	H	22.8
15944.000000	61.37	74.00	12.63	V	24.9
17115.500000	62.46	74.00	11.54	H	26.2
17711.000000	62.77	74.00	11.23	V	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	43.30	54.00	10.70	V	21.1
14656.500000	43.84	54.00	10.16	V	21.3
15574.000000	48.75	54.00	5.25	V	23.7
15930.000000	49.75	54.00	4.25	V	24.8
16599.500000	50.75	54.00	3.25	H	26.3
17714.500000	50.26	54.00	3.74	V	27.7

802.11ac VHT40 CH118

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13933.000000	54.33	74.00	19.67	H	20.3
14663.000000	55.26	74.00	18.74	V	21.3
15301.000000	59.76	74.00	14.24	H	22.4
15740.500000	61.79	74.00	12.21	V	24.4
16576.500000	61.94	74.00	12.06	H	26.3
17993.000000	61.74	74.00	12.26	V	27.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	43.48	54.00	10.52	V	21.1
14681.500000	43.87	54.00	10.13	V	21.5
15575.000000	48.42	54.00	5.58	H	23.7
15940.500000	49.76	54.00	4.24	H	24.9
16592.500000	50.71	54.00	3.29	V	26.3
17705.000000	50.23	54.00	3.77	V	27.6

802.11ac VHT40 CH134

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13919.000000	54.67	74.00	19.33	H	20.5
14670.500000	55.04	74.00	18.96	H	21.3
15158.500000	59.99	74.00	14.01	V	22.5
16262.500000	61.06	74.00	12.94	V	25.1
16656.000000	62.59	74.00	11.41	H	25.7
17711.000000	61.79	74.00	12.21	V	27.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13907.500000	43.58	54.00	10.42	V	21.0
14681.000000	43.86	54.00	10.14	V	21.5
15573.500000	48.59	54.00	5.41	H	23.7
15939.000000	49.81	54.00	4.19	V	24.9
16600.000000	50.68	54.00	3.32	H	26.3
17709.000000	50.40	54.00	3.60	V	27.6

802.11ac VHT80 CH42

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13823.500000	54.39	74.00	19.61	H	19.9
14665.000000	55.54	74.00	18.46	H	21.3
15414.000000	60.19	74.00	13.81	H	22.8
16243.500000	61.09	74.00	12.91	H	25.1
16569.500000	62.21	74.00	11.79	H	26.1
17893.500000	61.60	74.00	12.40	H	28.1

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.33	54.00	10.67	V	21.1
14663.000000	43.81	54.00	10.19	V	21.3
15570.500000	48.49	54.00	5.51	H	23.6
15969.000000	49.66	54.00	4.34	V	25.6
16596.500000	50.68	54.00	3.32	H	26.3
17717.000000	50.46	54.00	3.54	V	27.7

802.11ac VHT80 CH58

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13550.500000	54.21	74.00	19.79	H	20.5
14661.000000	55.51	74.00	18.49	H	21.3
15569.500000	61.20	74.00	12.80	V	23.6
15932.500000	61.81	74.00	12.19	H	24.8
17120.500000	61.82	74.00	12.18	H	26.1
17890.000000	61.17	74.00	12.83	H	28.2

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13910.500000	43.27	54.00	10.73	V	21.1
14657.000000	43.77	54.00	10.23	V	21.3
15575.000000	48.44	54.00	5.56	V	23.7
15927.000000	49.80	54.00	4.20	H	24.8
17109.500000	50.73	54.00	3.27	H	26.2
17707.500000	50.35	54.00	3.65	H	27.6

802.11ac VHT80 CH106

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13905.000000	54.49	74.00	19.51	H	20.8
14672.500000	55.94	74.00	18.06	V	21.3
15323.000000	59.86	74.00	14.14	V	22.7
15940.000000	61.34	74.00	12.66	V	24.9
16594.500000	62.04	74.00	11.96	V	26.3
17997.500000	61.70	74.00	12.30	H	27.4

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.15	54.00	10.85	H	21.1
14688.000000	43.85	54.00	10.15	H	21.6
15575.000000	48.67	54.00	5.33	H	23.7
15942.000000	49.83	54.00	4.17	V	24.9
16579.500000	50.67	54.00	3.33	V	26.4
17701.000000	50.37	54.00	3.63	V	27.5

802.11ac VHT80 CH106

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13905.500000	54.49	74.00	19.51	H	20.9
14658.000000	55.58	74.00	18.42	V	21.3
15043.000000	60.17	74.00	13.83	H	22.5
15967.500000	61.51	74.00	12.49	H	25.6
16586.000000	62.38	74.00	11.62	V	26.3
18000.000000	61.35	74.00	12.65	V	27.4

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	43.11	54.00	10.89	H	21.1
14681.500000	43.73	54.00	10.27	V	21.5
15572.000000	48.43	54.00	5.57	H	23.6
15939.500000	49.70	54.00	4.30	V	24.9
16583.500000	50.77	54.00	3.23	V	26.4
17704.000000	50.31	54.00	3.69	V	27.5

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:

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

A.3. Radiated Spurious Emissions < 30MHz

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

Frequency (MHz)	Field strength (μV/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 recalculated based on the extrapolation factor of 40 dB/decade.

Measurement Result(Worst case):

Mode	Frequency Range	Test Results	Conclusion
All Channel	9 kHz ~30 MHz	Fig.49	P

Conclusion: PASS

Test graphs as below:

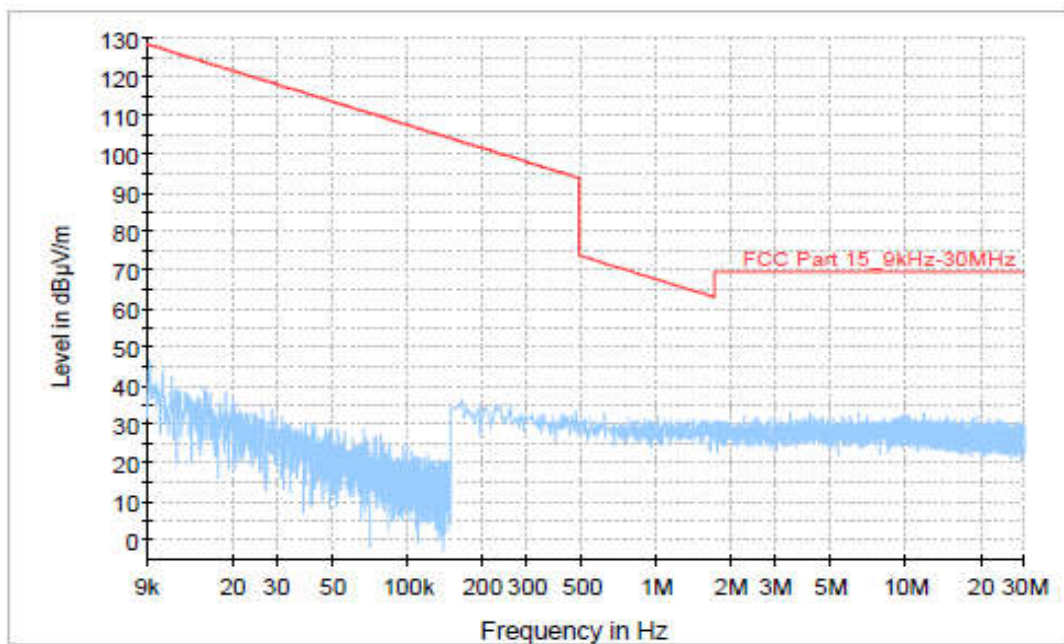


Fig. 49 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz)

*** END OF REPORT ***