



TEST REPORT

No. I21N02292-RLAN

for

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name: A102OP

with

Hardware Version: 11

Software Version: ColorOS V11

FCC ID: R9C-A102OP

Issued Date: 2021-08-26

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.

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1. Summary of Test Report

1.1. Test Items

Product Name	Mobile Phone
Model Name	A102OP
Applicant's name	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Manufacturer's Name	Guangdong OPPO Mobile Telecommunications Corp., Ltd.

1.2. Test Standards

FCC Part15-2019; FCC 06-96-2006; ANSI C63.10-2013; KDB789033-V02r01; KDB 905462-D02

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

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

1.5. Project data

Testing Start Date:	2021-07-25
Testing End Date:	2021-08-25

1.6. Signature

Lin Zechuang
(Prepared this test report)

Tang Weisheng
(Reviewed this test report)

Zhang Bojun
(Approved this test report)



2. Client Information

2.1. Applicant Information

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Guangdong, China
Contact Person Mei XiLi
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2.2. Manufacturer Information

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
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Contact Person Mei XiLi
E-Mail meixili@oppo.com
Telephone: (86)76986076999
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Product Name	Mobile Phone
Model Name	A102OP
RLAN Frequency Range	ISM Bands: 5150MHz~5250MHz; 5250MHz~5350MHz; 5470MHz~5725MHz; 5725MHz~5850MHz.
RLAN Protocol	IEEE 802.11a,802.11n-HT20/40,802.11ac-VHT20/40/80
Type of modulation	OFDM
Antenna Type	Integrated
Antenna Gain	-3.0dBi
Power Supply	3.85V DC by Battery
FCC ID	R9C-A102OP
Device Type (DFS)	Client without radar detection(only support client mode)
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

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT03aa	868994050054571	11	ColorOS V11	2021-07-23
	868994050054563			
UT02aa	868994050055578	11	ColorOS V11	2021-07-23
	868994050055560			

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

UT03aa is used for conduction test, UT02aa is used for radiation test and AC Power line Conducted Emission test.

3.3. Internal Identification of AE

AE ID*	Description	AE ID*
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/
AE4	Headset	/

AE1

Model	BLP779
Manufacturer	TWS TECHNOLOGY (GUANGZHOU) LIMITED
Capacity	3890mAh
Nominal Voltage	3.85V



AE2

Model	OP92KAJH
Manufacturer	Shenzhen Kunxing Technology Co.,Ltd.
Specification	Japan Standard Charger

AE3

Model	DL143
Manufacturer	Dongguan Fuqiang Electronics Co., Ltd

AE4

Model	MH156
Manufacturer	JiangXi Risound Electronics CO.,LTD

*AE ID: is used to identify the test sample in the lab internally. AE2: just for testing.

3.4. General Description

The Equipment under Test (EUT) is a model of Mobile Phone with integrated antenna and battery.

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

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 FCC CFR 47,Part 15,Subpart E	2019
FCC 06-96	Revision of Parts 2 and 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII) devices in the 5 GHz band	2006
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB789033	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E	V02r01
KDB 905462	Compliance Measurement Procedures for Unlicensed-national Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection	D02



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 Part15E	Verdict
0	Maximum Output Power	15.407(a)	P
1	Power Spectral Density	15.407(a)	P
2	Occupied 26dB Bandwidth	15.403(i)	/
3	Occupied 6dB Bandwidth	15.407(e)	P
4	99% Occupied Bandwidth	15.403	/
5	Dynamic Frequency Selection	15.407(h)	P
6	Band edge compliance	15.209	P
7	Radiated Spurious Emissions	15.209	P
8	AC Power line Conducted	15.207	P
9	Transmit Power Control	15.407	NA

See **ANNEX A** for details.

Note: According to the definition of the application description, the device will automatically discontinue transmission in case of either absence of information to transmit or operational failure.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/matrixer 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



6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2021-12-30	1 year
2	RF Control Unit	JS0806-2	21C8060398	Tonscend	2022-05-09	1 year
3	Vector Signal General	SMU200A	104096	Rohde & Schwarz	2021-12-30	1 year
4	Shielding Room	S81	/	ETS-Lindgren	2022-11-14	3 years
5	Test Receiver	ESCI	100702	Rohde & Schwarz	2022-01-13	1 year
6	LISN	ENV216	102067	Rohde & Schwarz	2022-07-15	1 year
No.	Equipment	Model	FCC ID	Manufacturer	Calibration Due date	Calibration Period
7	Master AP	RT-AC9600R	MSQ-RTG03H	ASUS	/	/

Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Loop Antenna	HLA6120	35779	TESEQ	2022-04-25	3 years
2	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2022-04-02	3 years
4	Horn Antenna	QSH-SL-18 -26-S-20	17013	Q-par	2023-01-06	3 years
5	Horn Antenna	QSH-SL-18 -40-K-SG	15979	Q-par	2023-01-06	3 years
6	Test Receiver	ESR7	101676	Rohde & Schwarz	2021-11-25	1 year
7	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2022-01-13	1 year
8	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years

Test software

No.	Equipment	Manufacturer	Version
1	RF Test System	Tonscend	JS1120-3
2	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.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

7. Laboratory Environment

Semi-anechoic chamber

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	< 4 Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

Fully-anechoic chamber

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	< 4 Ω
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

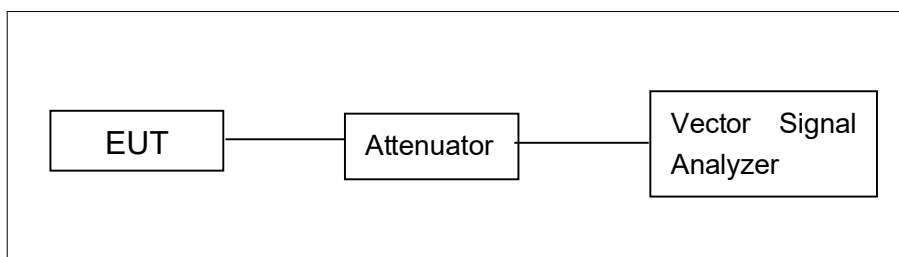
Test Name	Uncertainty ($k=2$)	
1. Maximum output Power	1.32dB	
2. Peak Power Spectral Density	2.32dB	
3. Occupied 26dB Bandwidth	66Hz	
4. Occupied 6dB Bandwidth	66Hz	
5. 99% Occupied Bandwidth	66Hz	
6. Band Edges Compliance	4.68dB	
7. Transmitter Spurious Emission - Radiated	9kHz \leq f<30MHz	1.74dB
	30MHz \leq f<1GHz	4.84dB
	1GHz \leq f<18GHz	4.68dB
	18GHz \leq f \leq 40GHz	3.76dB
8. AC Power line Conducted Emission	150kHz \leq f \leq 30MHz	3.00dB

ANNEX A: Detailed Test Results

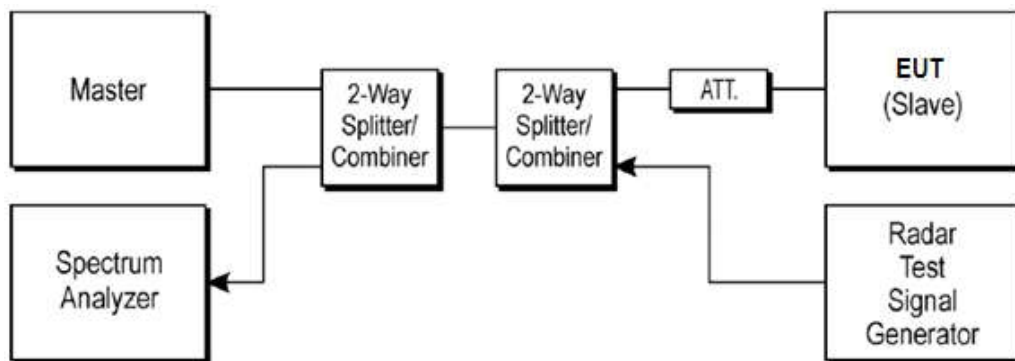
A.1. Measurement Method

Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values.



6). The below figure shows the DFS setup, where the EUT is a RLAN device operating in slave mode, without Radar Interference Detection function. This setup also contains a device operating in master mode. The radar test signals are injected into the master device. The EUT (slave device) is associated with the master device. WLAN traffic is generated by streaming the mpeg file from the master to the slave in full monitor video mode using the media player.

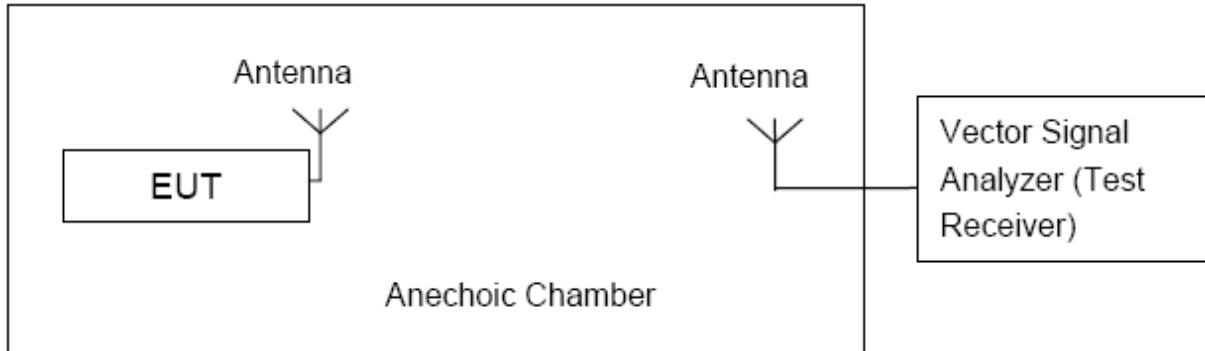


Radiated Emission Measurements

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 26 GHz, RBW = 1 MHz, VBW = 10 Hz;



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. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24
	5250MHz~5350MHz	24 or 11+10logB
	5470MHz~5725MHz	24 or 11+10logB
	5725MHz~5850MHz	30

Limit use the less value, and B is the 26dB bandwidth.

Measurement of method: See ANSI C63.10-2013-Clause 12.3.3.2

Method PM-G is a measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Measurement Results:

Mode	Channel	RF output power (dBm)	Conclusion
802.11a	5180MHz (Ch36)	17.12	P
	5200MHz (Ch40)	17.38	P
	5240MHz (Ch48)	17.42	P
	5260MHz (Ch52)	17.51	P
	5280MHz (Ch56)	17.68	P
	5320MHz (Ch64)	17.79	P
	5500MHz (Ch100)	17.86	P
	5580MHz (Ch116)	17.59	P
	5700MHz (Ch140)	14.59	P
	5745MHz (CH149)	17.34	P
	5785MHz (CH157)	17.19	P
	5825MHz (CH165)	17.28	P
802.11n-HT20	5180MHz (Ch36)	17.01	P
	5200MHz (Ch40)	17.19	P
	5240MHz (Ch48)	17.39	P
	5260MHz (Ch52)	17.48	P
	5280MHz (Ch56)	17.55	P
	5320MHz (Ch64)	17.68	P
	5500MHz (Ch100)	17.81	P
	5580MHz (Ch116)	17.52	P
	5700MHz (Ch140)	12.63	P
	5745MHz (CH149)	16.76	P
	5785MHz (CH157)	16.67	P
	5825MHz (CH165)	16.79	P



802.11ac-VHT20	5180MHz (Ch36)	16.65	P
	5200MHz (Ch40)	16.69	P
	5240MHz (Ch48)	16.74	P
	5260MHz (Ch52)	16.86	P
	5280MHz (Ch56)	16.91	P
	5320MHz (Ch64)	17.18	P
	5500MHz (Ch100)	17.21	P
	5580MHz (Ch116)	16.83	P
	5700MHz (Ch140)	12.57	P
	5745MHz (CH149)	16.38	P
	5785MHz (CH157)	16.15	P
	5825MHz (CH165)	16.31	P
802.11n-HT40	5190MHz (Ch38)	10.02	P
	5230MHz (Ch46)	16.19	P
	5270MHz (Ch54)	16.42	P
	5310MHz (Ch62)	10.69	P
	5510MHz (Ch102)	11.73	P
	5550MHz (Ch110)	16.51	P
	5670MHz (Ch134)	16.33	P
	5755MHz (CH151)	16.53	P
	5795MHz (CH159)	16.49	P
802.11ac-VHT40	5190MHz (Ch38)	9.99	P
	5230MHz (Ch46)	16.22	P
	5270MHz (Ch54)	16.35	P
	5310MHz (Ch62)	10.62	P
	5510MHz (Ch102)	11.68	P
	5550MHz (Ch110)	16.53	P
	5670MHz (Ch134)	16.29	P
	5755MHz (CH151)	16.02	P
	5795MHz (CH159)	16.00	P
802.11ac-VHT80	5210MHz (Ch42)	9.11	P
	5290MHz (Ch58)	9.51	P
	5530MHz (Ch106)	9.84	P
	5610MHz (Ch122)	16.40	P
	5775MHz (CH155)	15.95	P

Note:

The data rate 6Mbps (11a mode), MCS0 (11n mode) and MCS0 (11ac mode) are selected as the worst case. 802.11a, 802.11n-HT40 and 802.11ac-VHT80 are selected as the worst-case. The following cases and test graphs are mostly performed with this condition.

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

Conclusion: PASS



A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11dBm/MHz(FCC)
		10dBm/MHz EIRP(IC)
	5250MHz~5350MHz	11dBm/MHz
	5470MHz~5725MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500kHz

The PPSD measurement method SA-1 is made according to KDB 789033.

Measurement Results:

Mode	Channel	Power Spectral Density(dBm/MHz)	Conclusion
802.11a	5180MHz (Ch36)	4.72	P
	5200MHz (Ch40)	4.35	P
	5240MHz (Ch48)	4.98	P
	5260MHz (Ch52)	4.52	P
	5280MHz (Ch56)	4.98	P
	5320MHz (Ch64)	5.08	P
	5500MHz (Ch100)	5.81	P
	5580MHz (Ch116)	5.17	P
	5700MHz (Ch140)	1.88	P
802.11n-HT40	5190MHz (Ch38)	-5.10	P
	5230MHz (Ch46)	1.23	P
	5270MHz (Ch54)	1.07	P
	5310MHz (Ch62)	-4.57	P
	5510MHz (Ch102)	-3.10	P
	5550MHz (Ch110)	1.56	P
	5670MHz (Ch134)	0.36	P
802.11ac-VHT80	5210MHz (Ch42)	-9.88	P
	5290MHz (Ch58)	-8.98	P
	5530MHz (Ch106)	-8.31	P
	5610MHz (Ch122)	-2.41	P
Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	5745MHz (CH149)	1.80	P
	5785MHz (CH157)	1.92	P
	5825MHz (CH165)	1.84	P
802.11n-HT40	5755MHz (CH151)	-2.34	P
	5795MHz (CH159)	-2.31	P
802.11ac-VHT80	5775MHz (CH155)	-5.59	P

Conclusion: PASS

A.4. Occupied 26dB Bandwidth (conducted)

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	Occupied 26dB Bandwidth (MHz)		Conclusion
		Fig.	Value	
802.11a	5180MHz (Ch36)	Fig.1	20.32	/
	5200MHz (Ch40)	Fig.2	21.40	/
	5240MHz (Ch48)	Fig.3	22.44	/
	5260MHz (Ch52)	Fig.4	22.92	/
	5280MHz (Ch56)	Fig.5	22.00	/
	5320MHz (Ch64)	Fig.6	22.76	/
	5500MHz (Ch100)	Fig.7	22.44	/
	5580MHz (Ch116)	Fig.8	22.04	/
	5700MHz (Ch140)	Fig.9	22.80	/
	5745MHz (Ch149)	Fig.10	22.12	/
	5785MHz (Ch157)	Fig.11	22.36	/
	5825MHz (Ch165)	Fig.12	22.04	/
802.11n-HT40	5190MHz (Ch38)	Fig.13	41.68	/
	5230MHz (Ch46)	Fig.14	41.68	/
	5270MHz (Ch54)	Fig.15	41.84	/
	5310MHz (Ch62)	Fig.16	41.84	/
	5510MHz (Ch102)	Fig.17	41.76	/
	5550MHz (Ch110)	Fig.18	41.76	/
	5670MHz (Ch134)	Fig.19	42.08	/
	5755MHz (Ch151)	Fig.20	41.92	/
	5795MHz (Ch159)	Fig.21	41.68	/
802.11ac-VHT80	5210MHz (Ch42)	Fig.22	83.36	/
	5290MHz (Ch58)	Fig.23	84.96	/
	5530MHz (Ch106)	Fig.24	85.12	/
	5610MHz (Ch122)	Fig.25	84.48	/
	5775MHz (Ch155)	Fig.26	84.32	/

See below for test graphs.

Conclusion: PASS

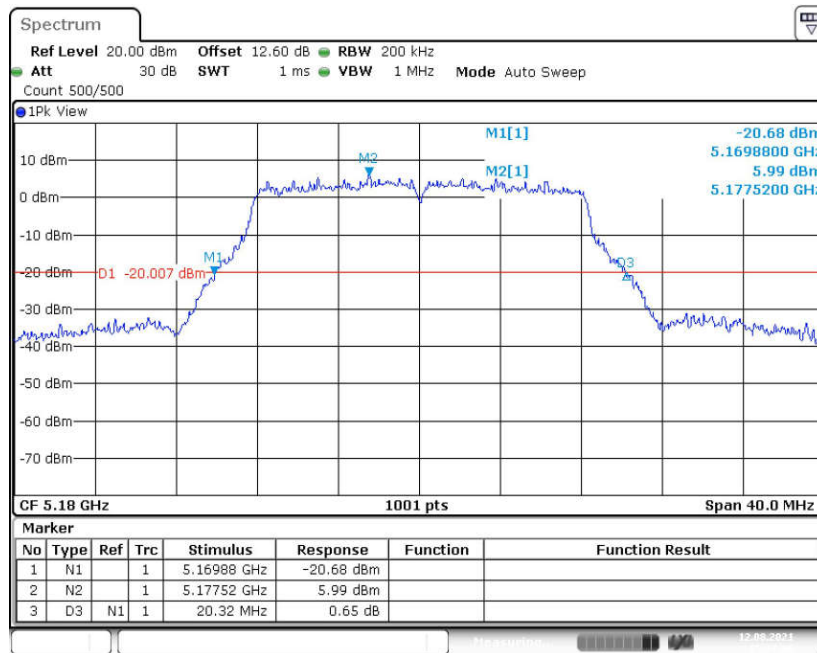


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

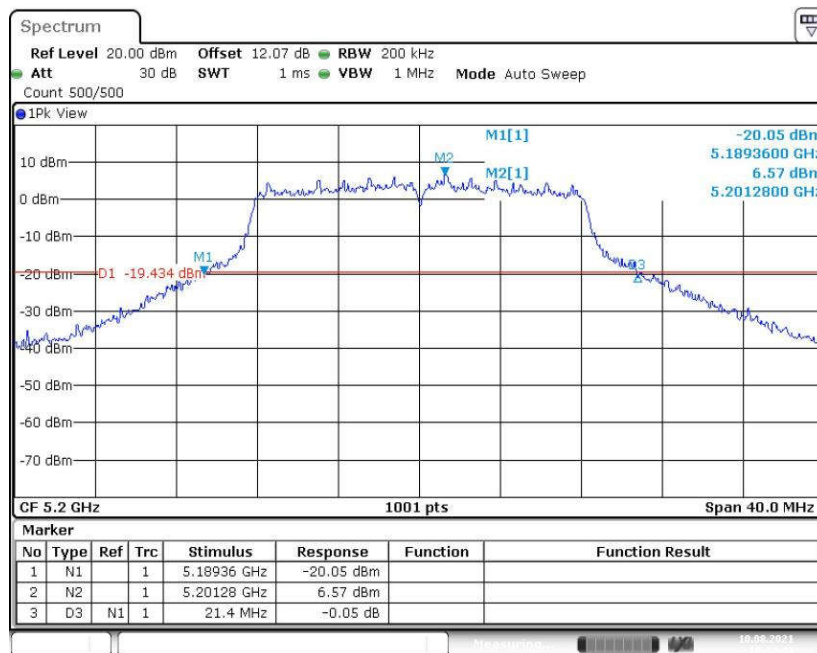


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)



Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

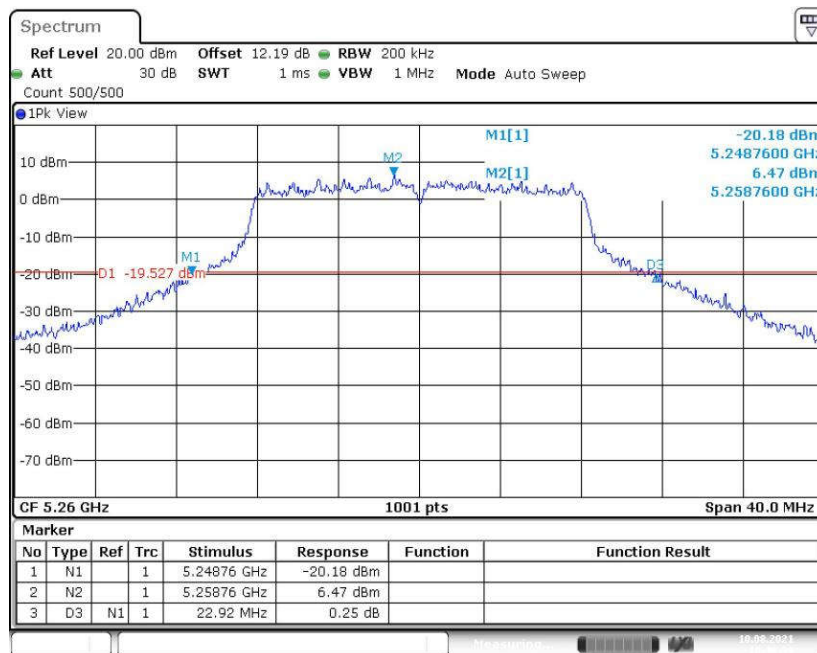


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

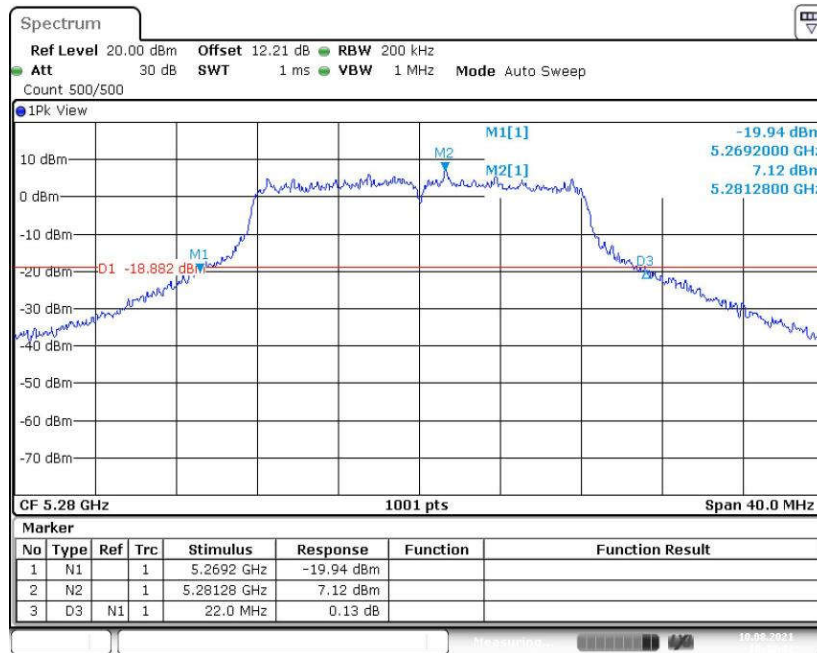


Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

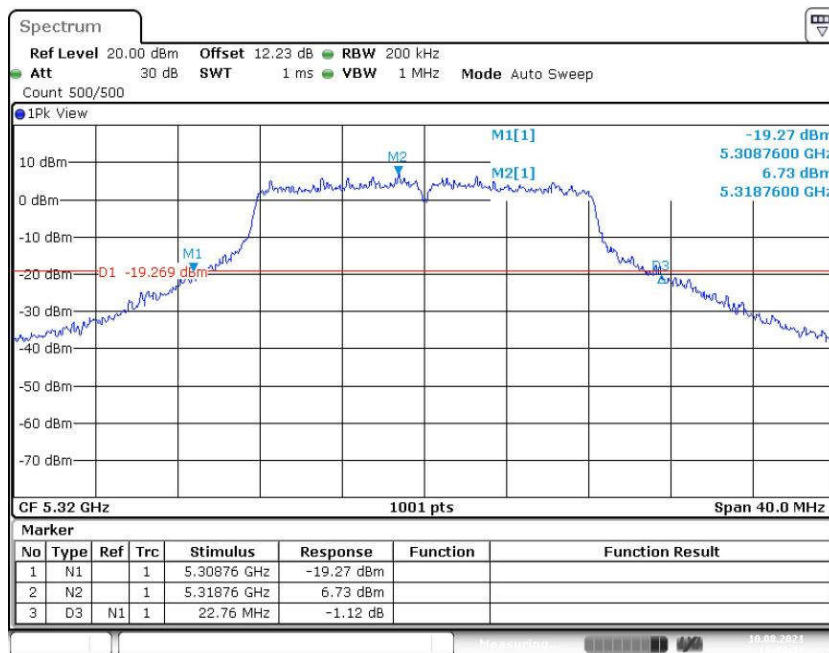


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

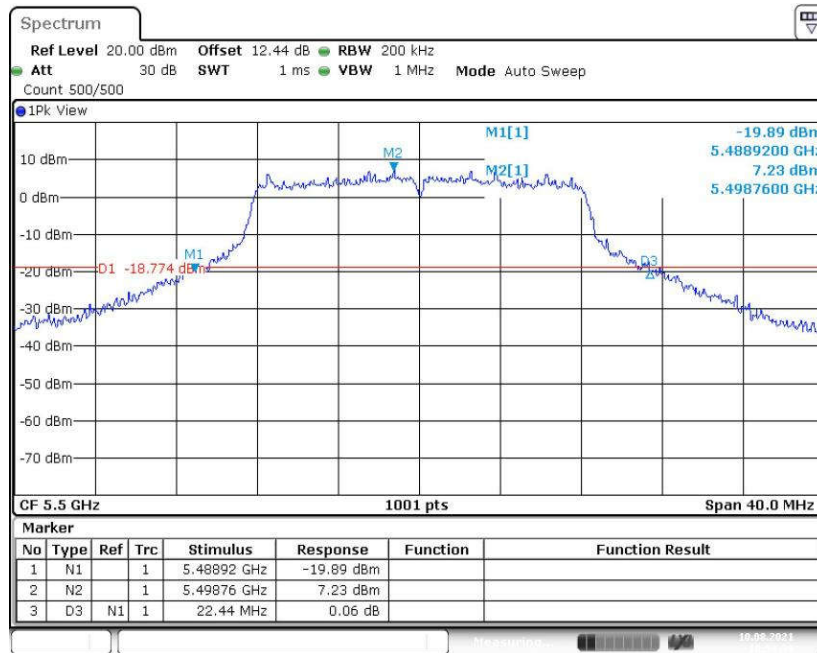


Fig. 7 Occupied 26dB Bandwidth (802.11a, 5500MHz)

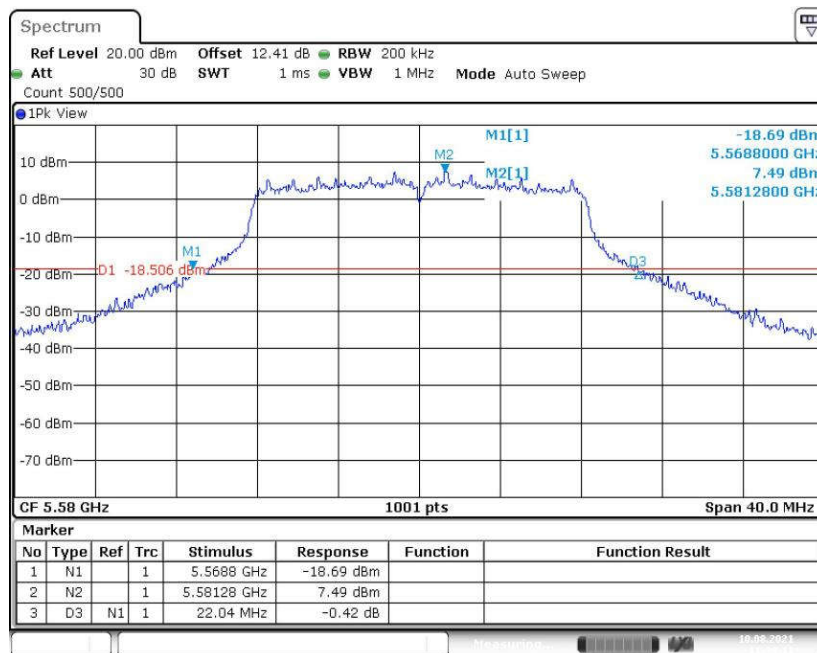


Fig. 8 Occupied 26dB Bandwidth (802.11a, 5580MHz)

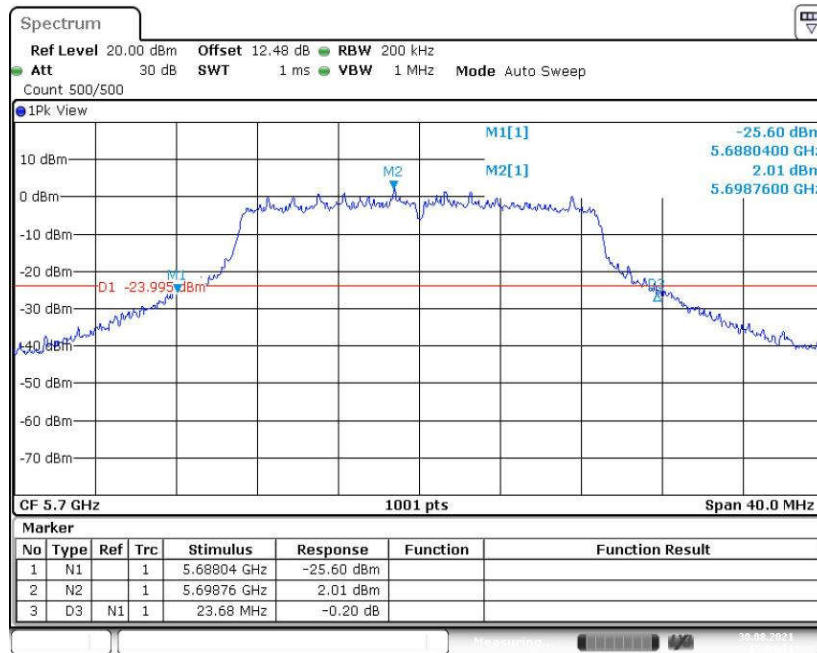


Fig. 9 Occupied 26dB Bandwidth (802.11a, 5700MHz)

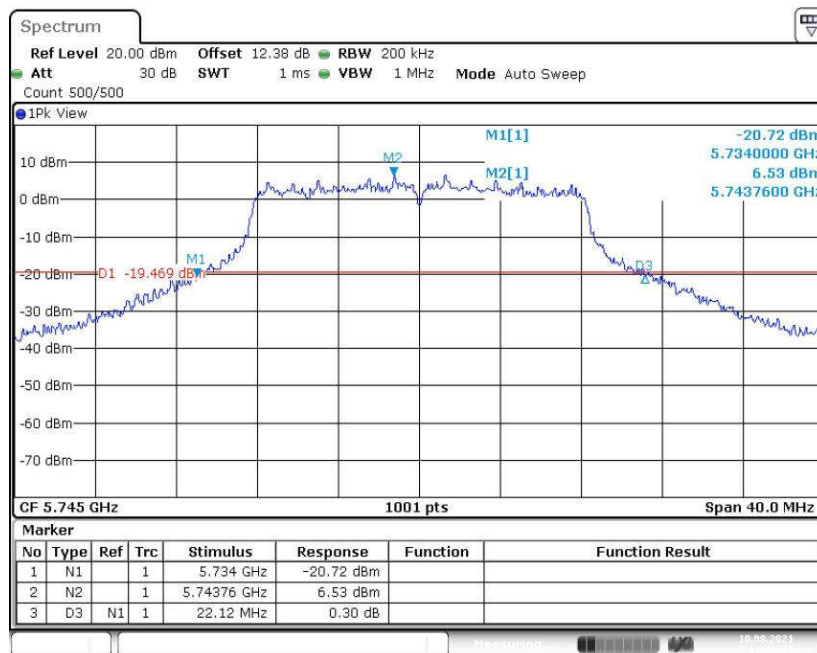


Fig. 10 Occupied 26dB Bandwidth (802.11a, 5745MHz)



Fig. 11 Occupied 26dB Bandwidth (802.11a, 5785MHz)



Fig. 12 Occupied 26dB Bandwidth (802.11a, 5825MHz)

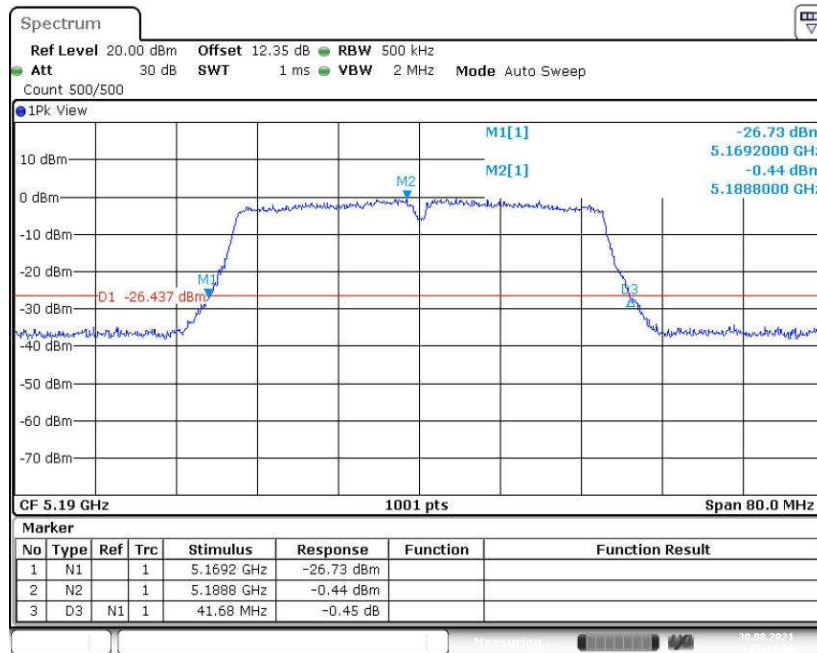


Fig. 13 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

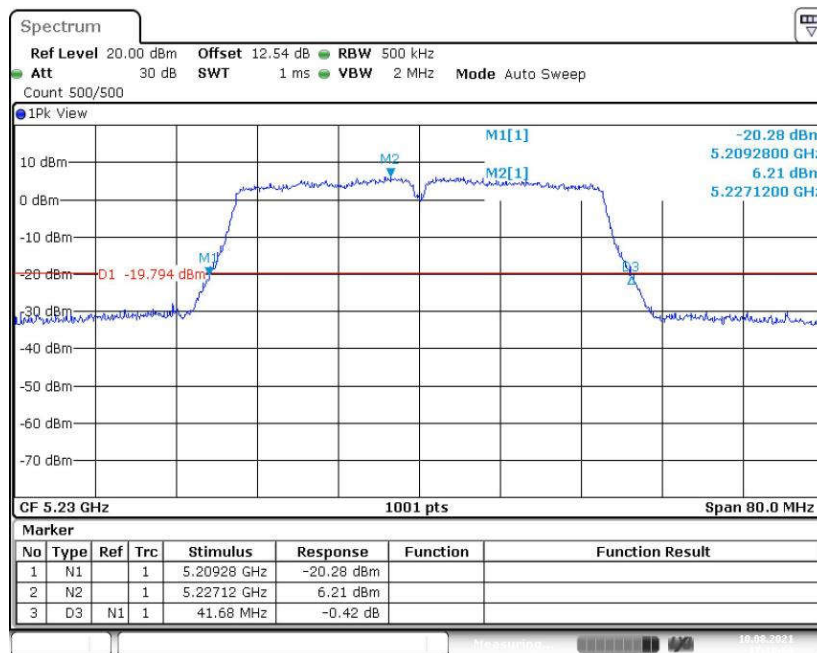


Fig. 14 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

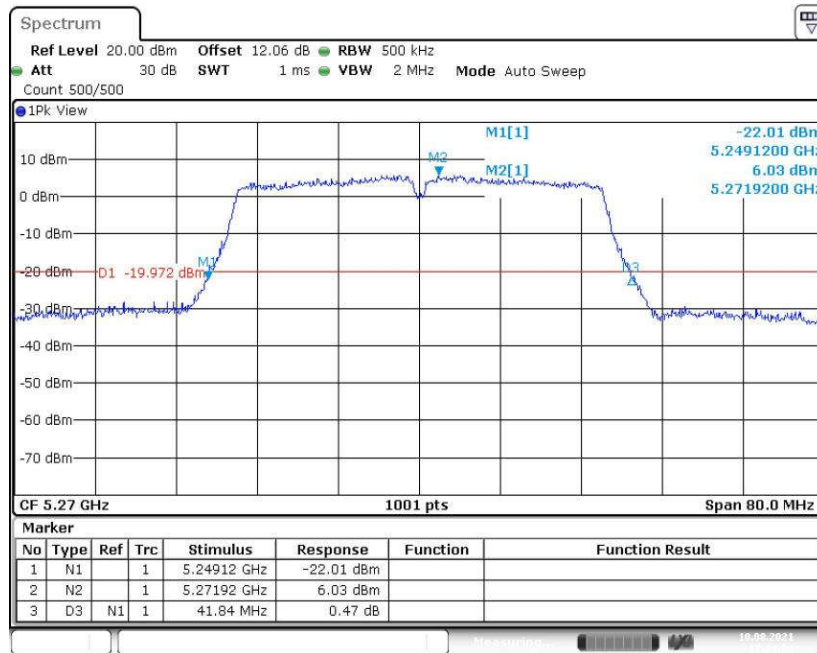


Fig. 15 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

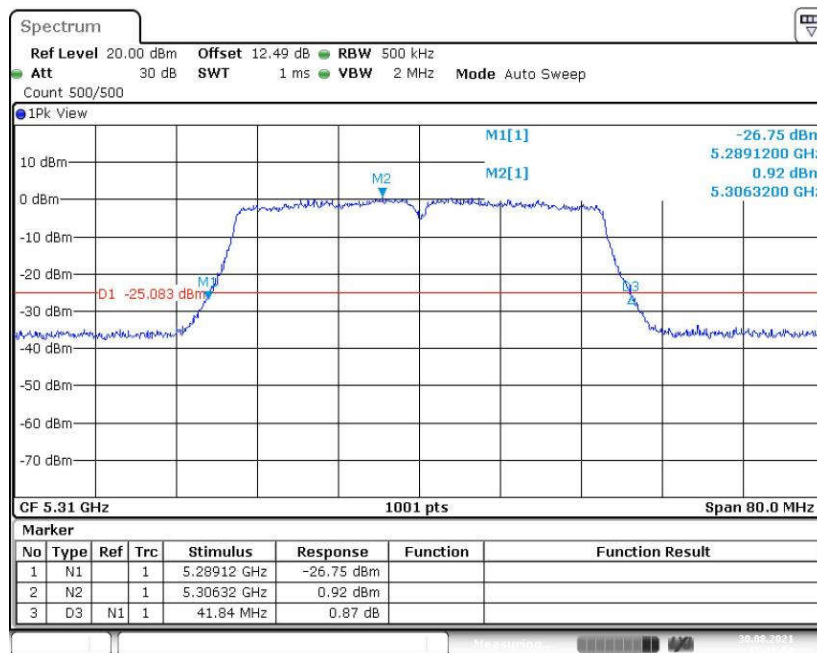


Fig. 16 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

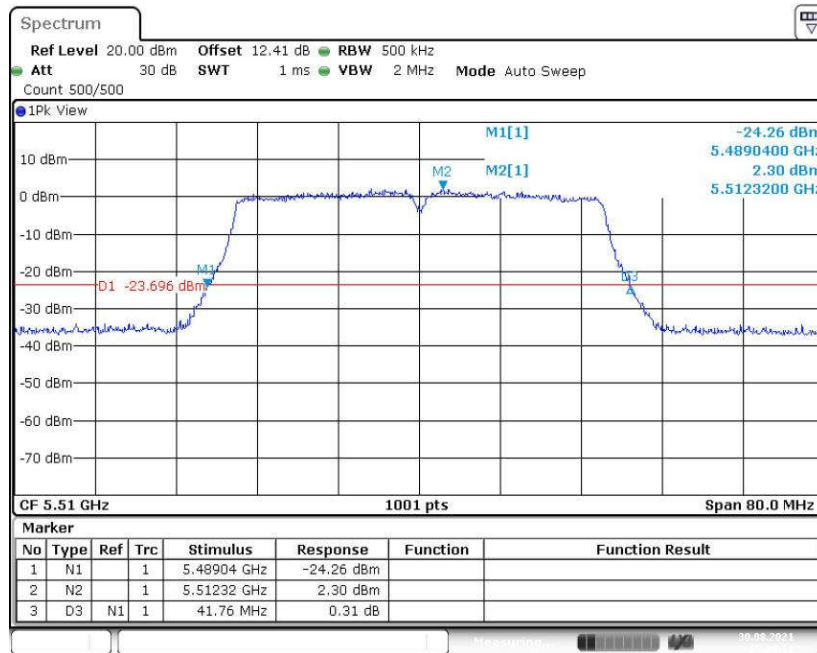


Fig. 17 Occupied 26dB Bandwidth (802.11n-HT40, 5510MHz)

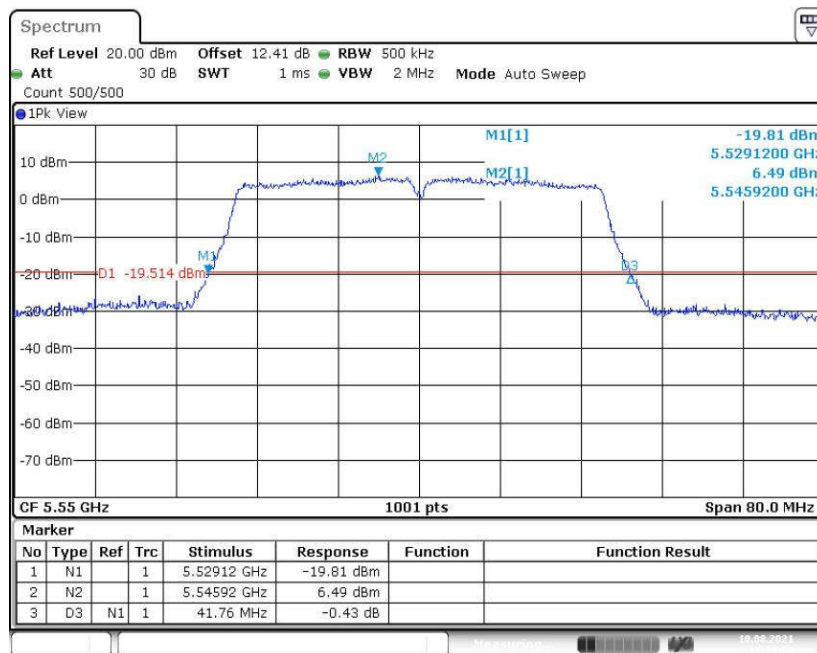


Fig. 18 Occupied 26dB Bandwidth (802.11n-HT40, 5550MHz)

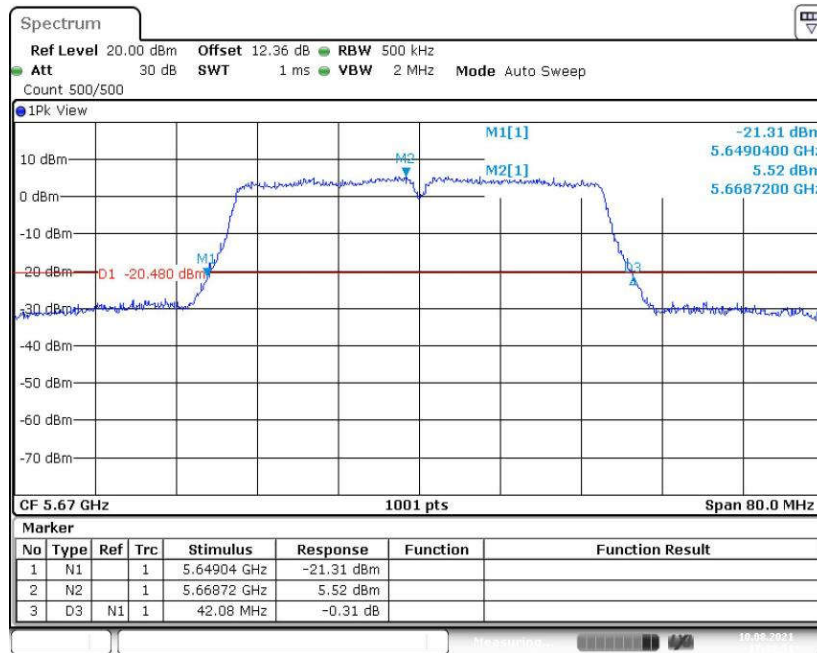


Fig. 19 Occupied 26dB Bandwidth (802.11n-HT40, 5670MHz)

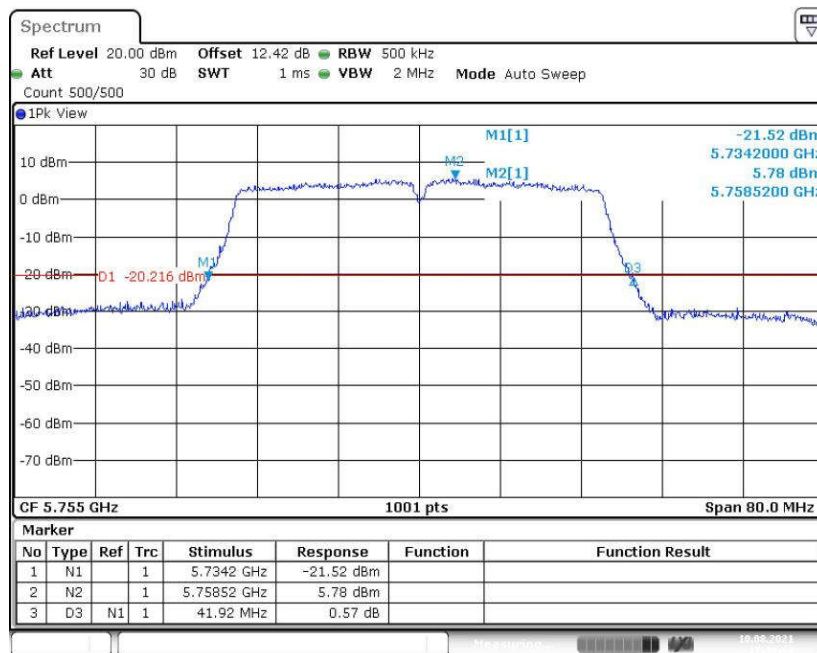


Fig. 20 Occupied 26dB Bandwidth (802.11n-HT40, 5755MHz)

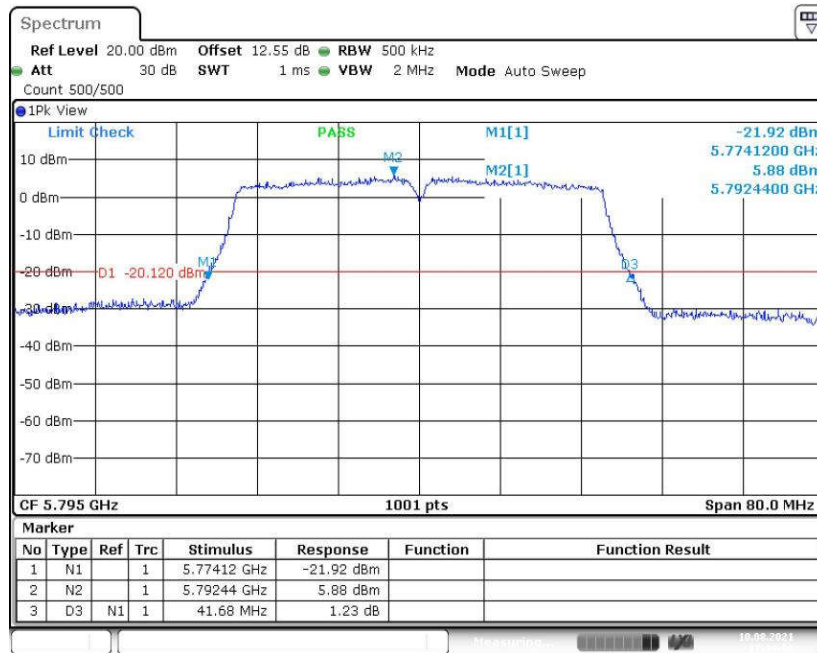


Fig. 21 Occupied 26dB Bandwidth (802.11n-HT40, 5795MHz)

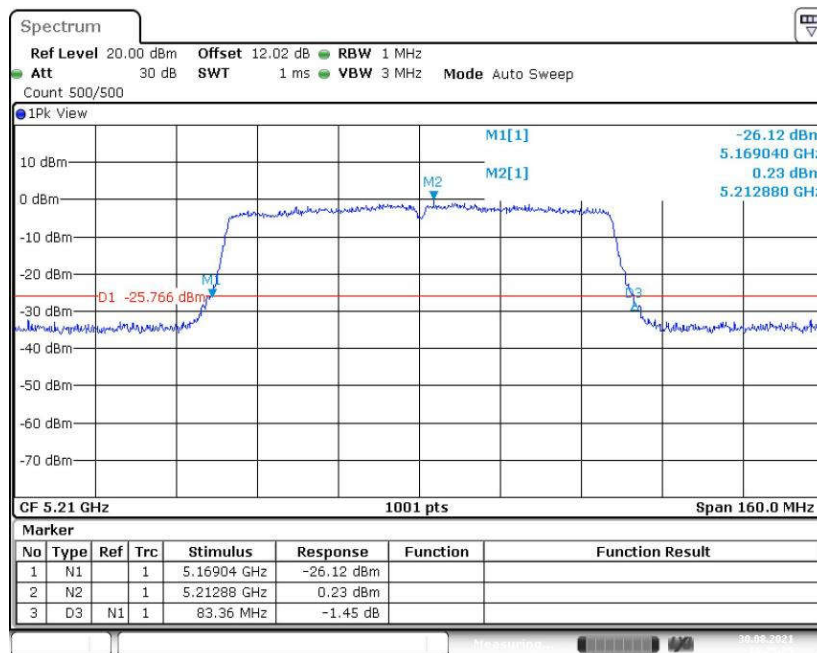


Fig. 22 Occupied 26dB Bandwidth (802.11ac-VHT80, 5210MHz)

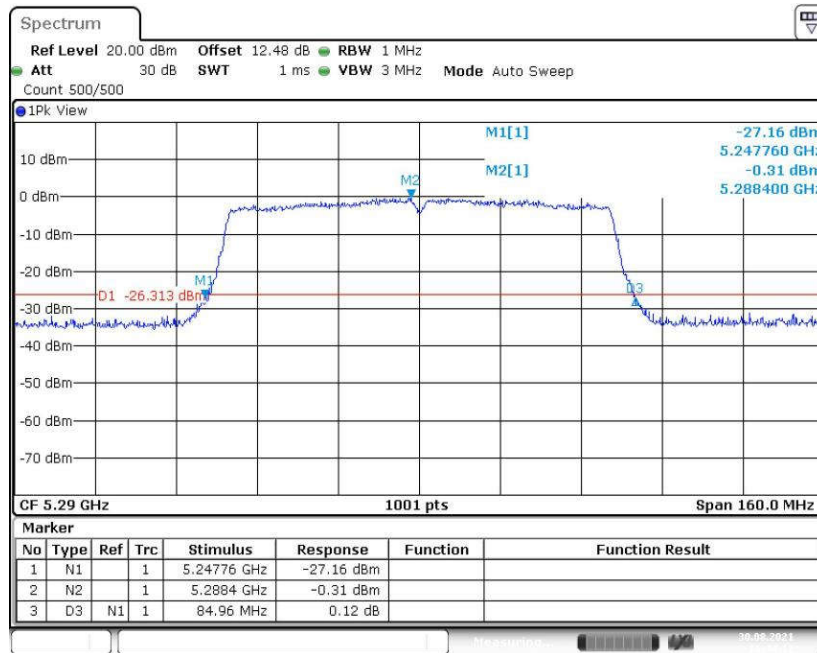


Fig. 23 Occupied 26dB Bandwidth (802.11ac-VHT80, 5290MHz)

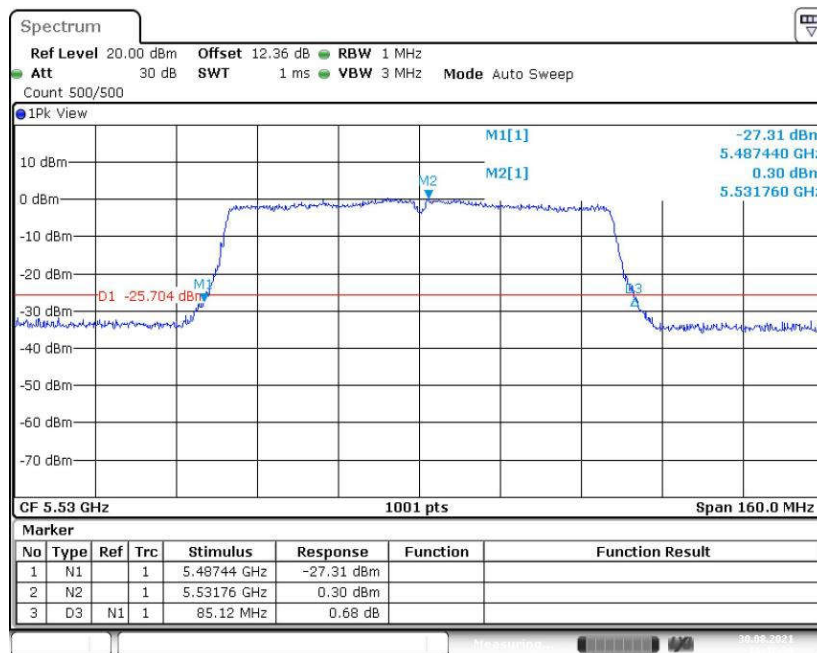


Fig. 24 Occupied 26dB Bandwidth (802.11ac-VHT80, 5530MHz)

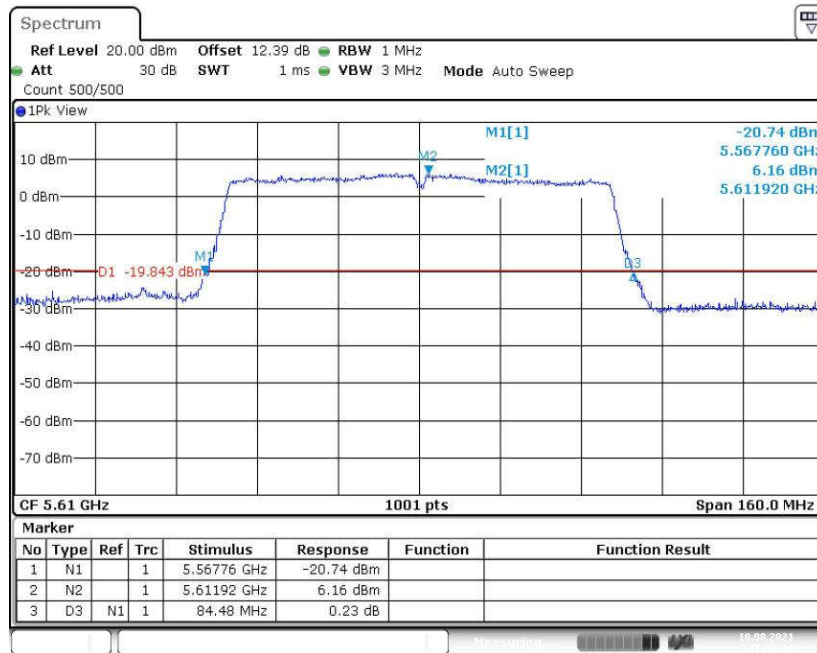


Fig. 25 Occupied 26dB Bandwidth (802.11ac-VHT80, 5610MHz)

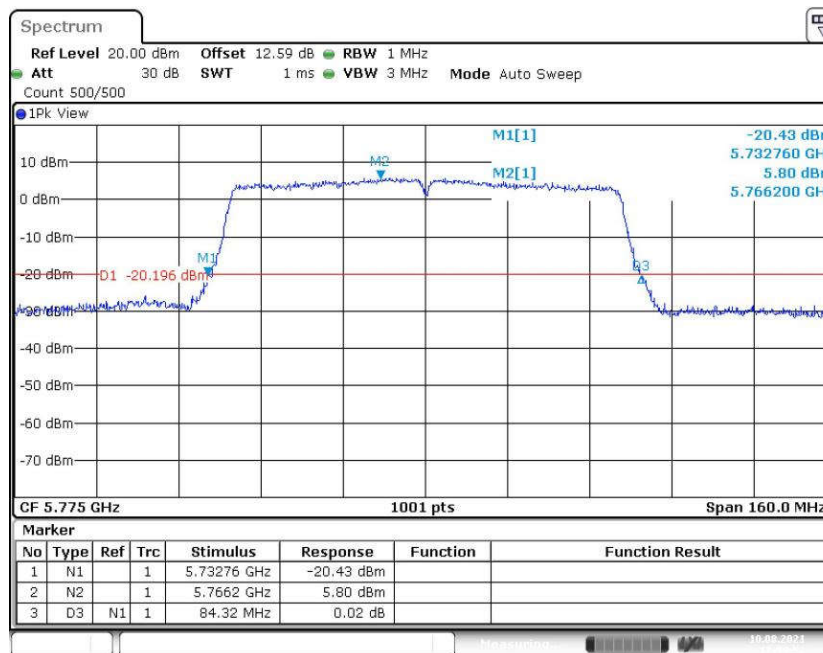


Fig. 26 Occupied 26dB Bandwidth (802.11ac-VHT80, 5775MHz)

A.5. Occupied 6dB Bandwidth (conducted)

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.407 (e)	≥ 0.5

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth (MHz)		Conclusion
802.11a	5745MHz (Ch149)	Fig.27	15.56	P
	5785MHz (Ch157)	Fig.28	15.76	P
	5825MHz (Ch165)	Fig.29	15.40	P
802.11n-HT40	5755MHz (Ch151)	Fig.30	35.84	P
	5795MHz (Ch159)	Fig.31	35.68	P
802.11ac-VHT80	5775MHz (Ch155)	Fig.32	75.52	P

See below for test graphs.

Conclusion: PASS

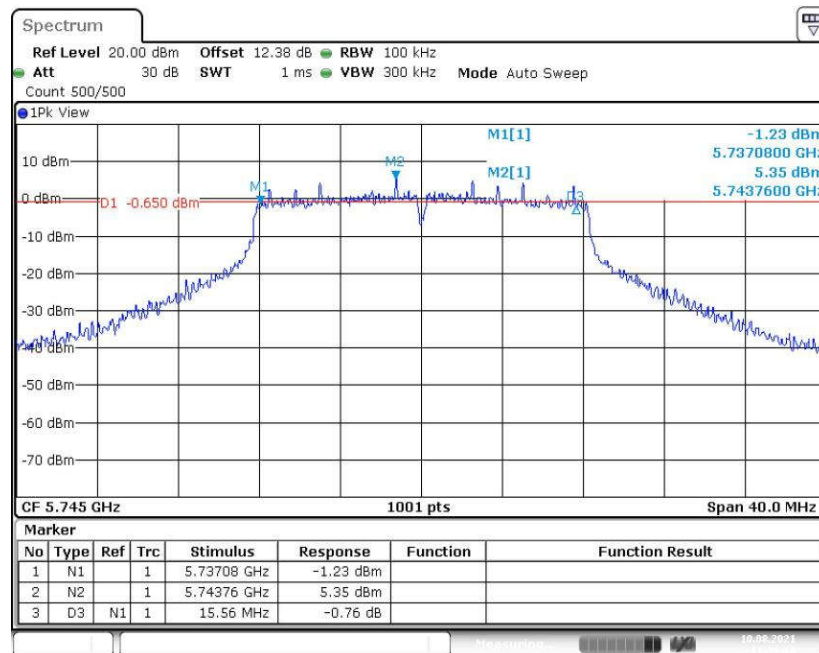


Fig. 27 Occupied 6dB Bandwidth (802.11a, 5745MHz)

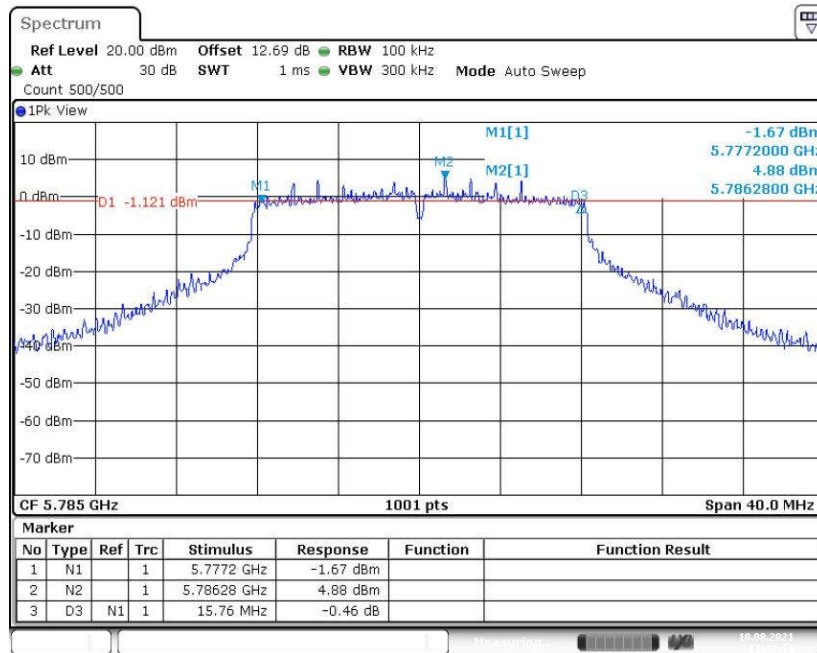


Fig. 28 Occupied 6dB Bandwidth (802.11a, 5785MHz)

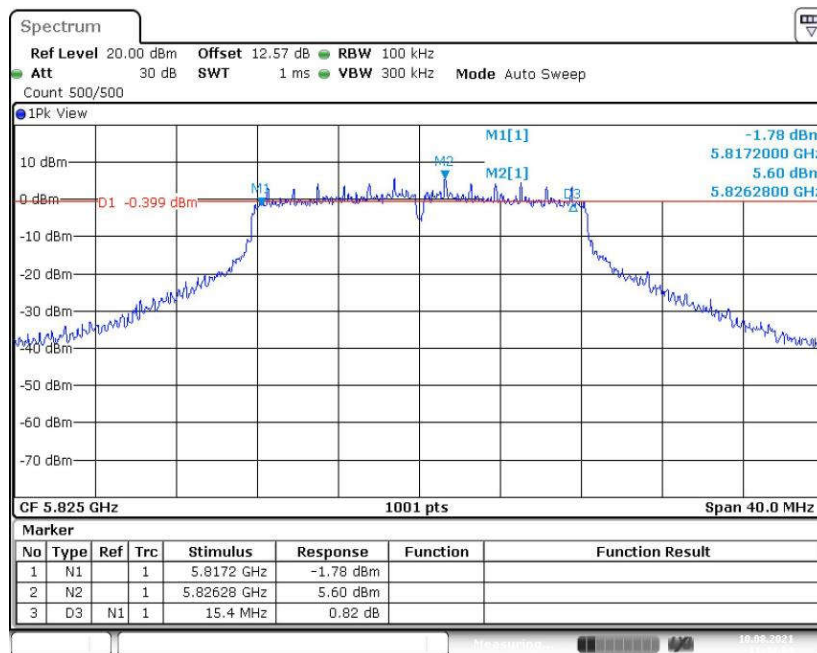


Fig. 29 Occupied 6dB Bandwidth (802.11a, 5825MHz)

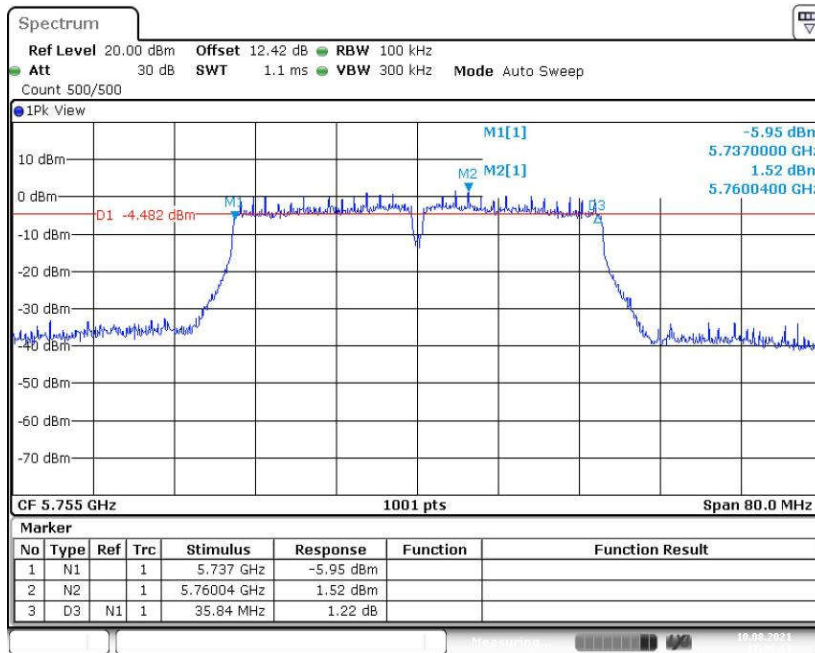


Fig. 30 Occupied 6dB Bandwidth (802.11n-HT40, 5755MHz)

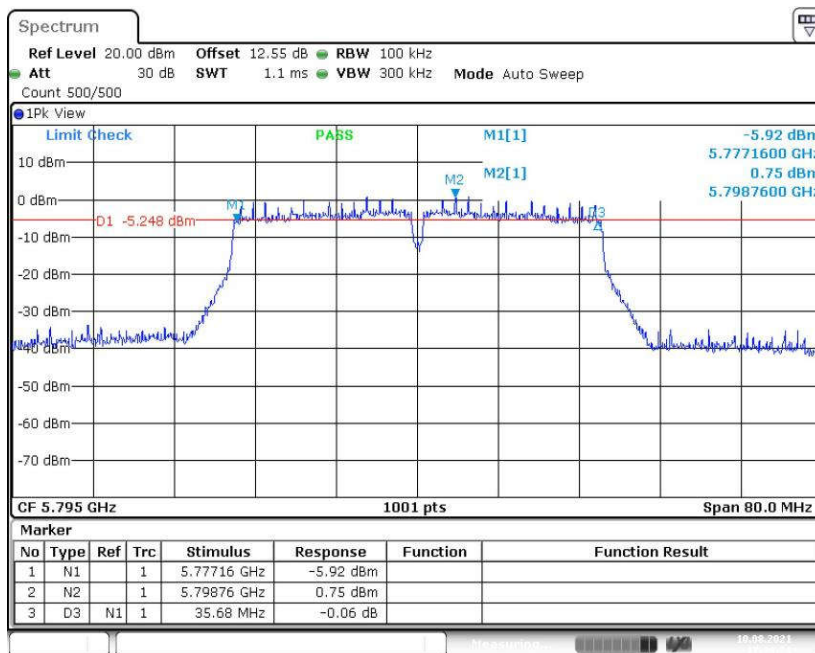


Fig. 31 Occupied 6dB Bandwidth (802.11n-HT40, 5795MHz)

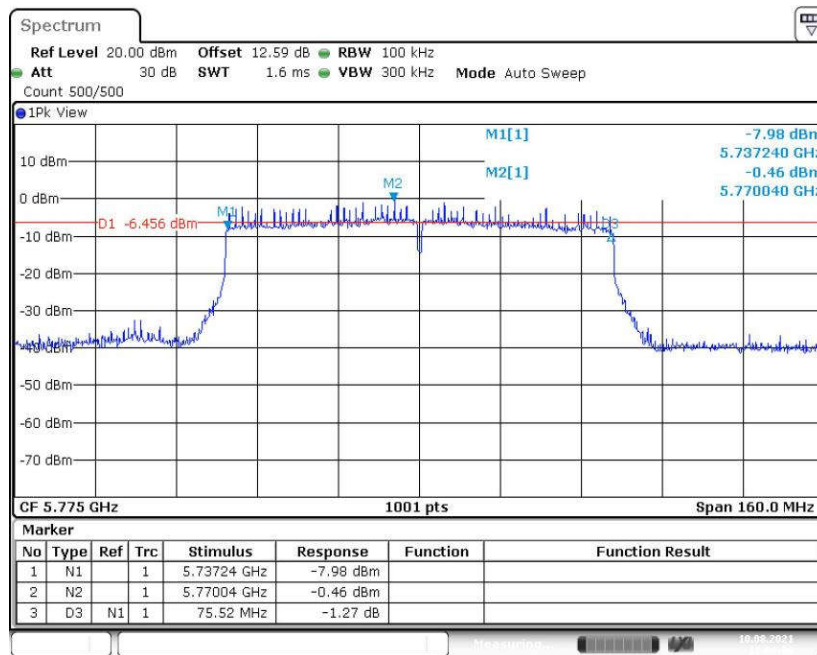


Fig. 32 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)

A.6. 99% Occupied Bandwidth (conducted)

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	99% Occupied Bandwidth (MHz)		Conclusion
		Fig.	Value	
802.11a	5180MHz (Ch36)	Fig.33	17.30	/
	5200MHz (Ch40)	Fig.34	17.26	/
	5240MHz (Ch48)	Fig.35	17.26	/
	5260MHz (Ch52)	Fig.36	17.30	/
	5280MHz (Ch56)	Fig.37	17.26	/
	5320MHz (Ch64)	Fig.38	17.30	/
	5500MHz (Ch100)	Fig.39	17.30	/
	5580MHz (Ch116)	Fig.40	17.26	/
	5700MHz (Ch140)	Fig.41	17.30	/
	5745MHz (Ch149)	Fig.42	17.30	/
	5785MHz (Ch157)	Fig.43	17.30	/
	5825MHz (Ch165)	Fig.44	17.26	/
802.11n-HT40	5190MHz (Ch38)	Fig.45	36.76	/
	5230MHz (Ch46)	Fig.46	36.52	/
	5270MHz (Ch54)	Fig.47	36.60	/
	5310MHz (Ch62)	Fig.48	36.60	/
	5510MHz (Ch102)	Fig.49	36.68	/
	5550MHz (Ch110)	Fig.50	36.68	/
	5670MHz (Ch134)	Fig.51	36.68	/
	5755MHz (Ch151)	Fig.52	36.60	/
	5795MHz (Ch159)	Fig.53	36.60	/
802.11 ac-VHT80	5210MHz (Ch42)	Fig.54	76.08	/
	5290MHz (Ch58)	Fig.55	76.08	/
	5530MHz (Ch106)	Fig.56	76.24	/
	5610MHz (Ch122)	Fig.57	76.40	/
	5775MHz (Ch155)	Fig.58	76.08	/

See below for test graphs.

Conclusion: PASS

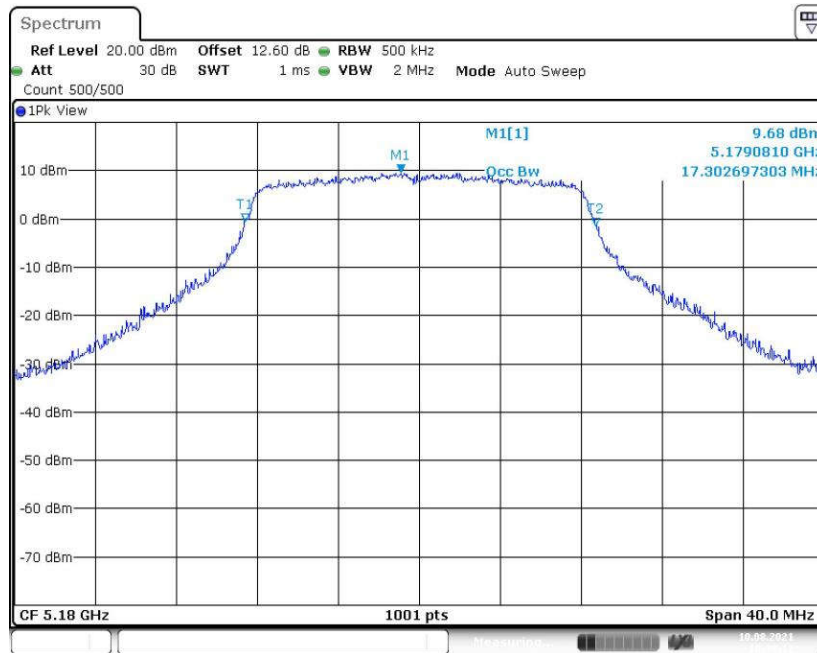


Fig. 33 99% Occupied Bandwidth (802.11a, 5180MHz)

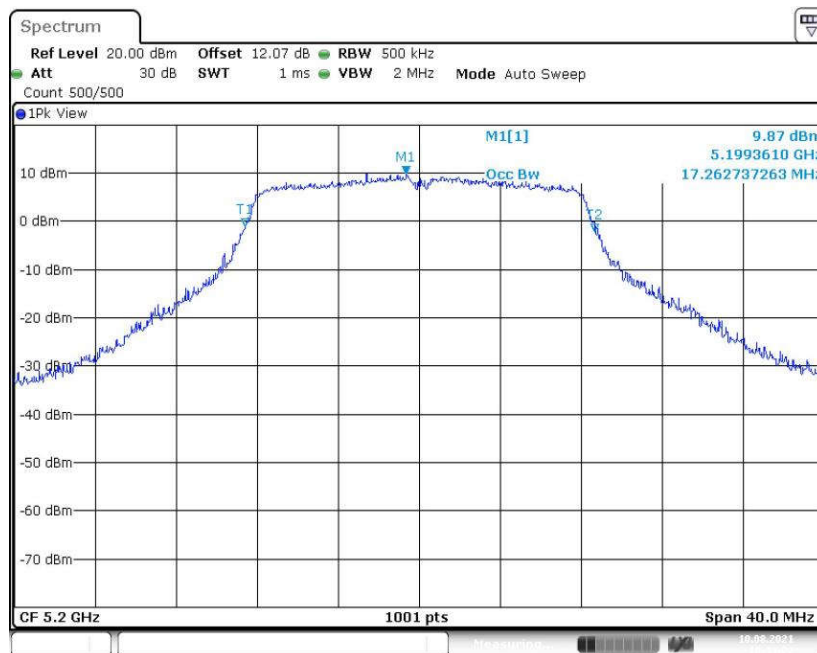


Fig. 34 99% Occupied Bandwidth (802.11a, 5200MHz)

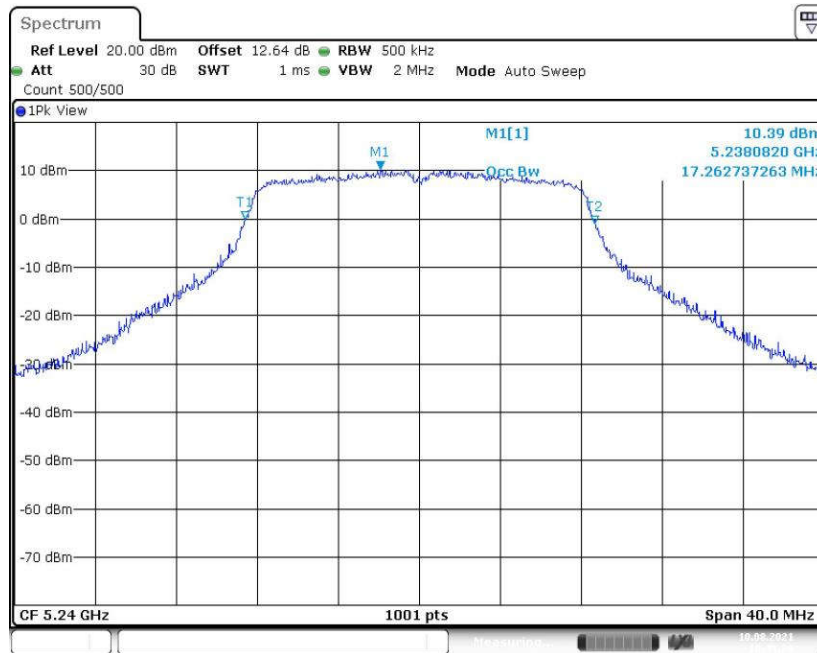


Fig. 35 99% Occupied Bandwidth (802.11a, 5240MHz)

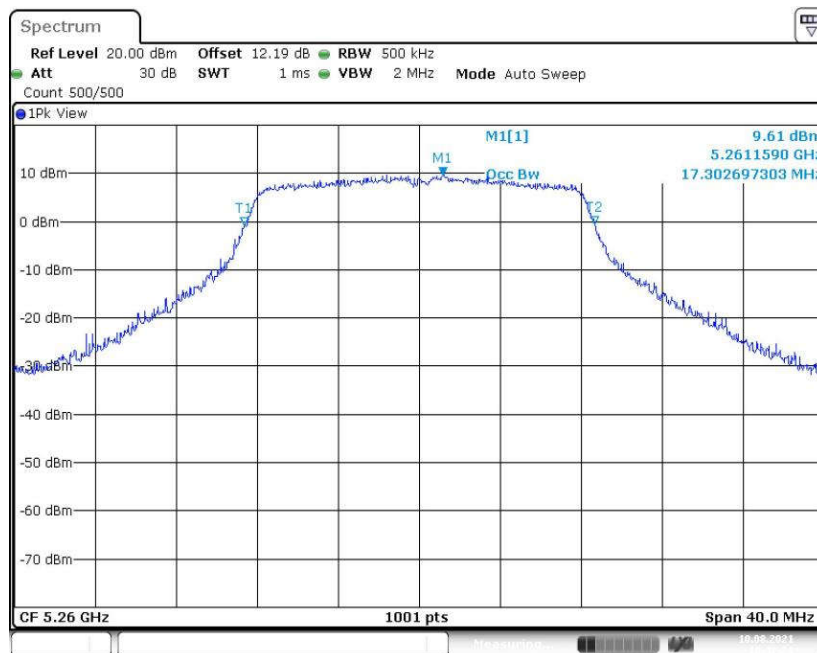


Fig. 36 99% Occupied Bandwidth (802.11a, 5260MHz)

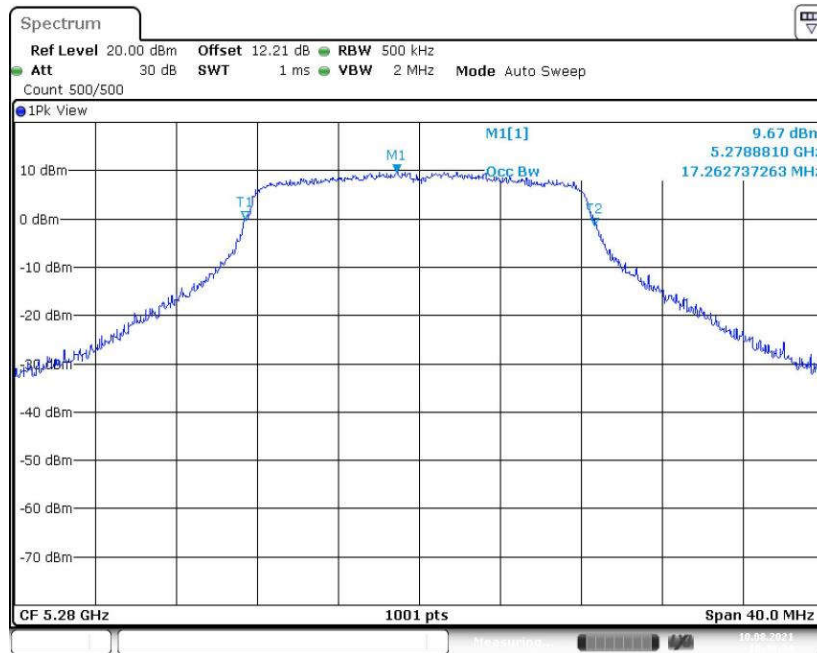


Fig. 37 99% Occupied Bandwidth (802.11a, 5280MHz)

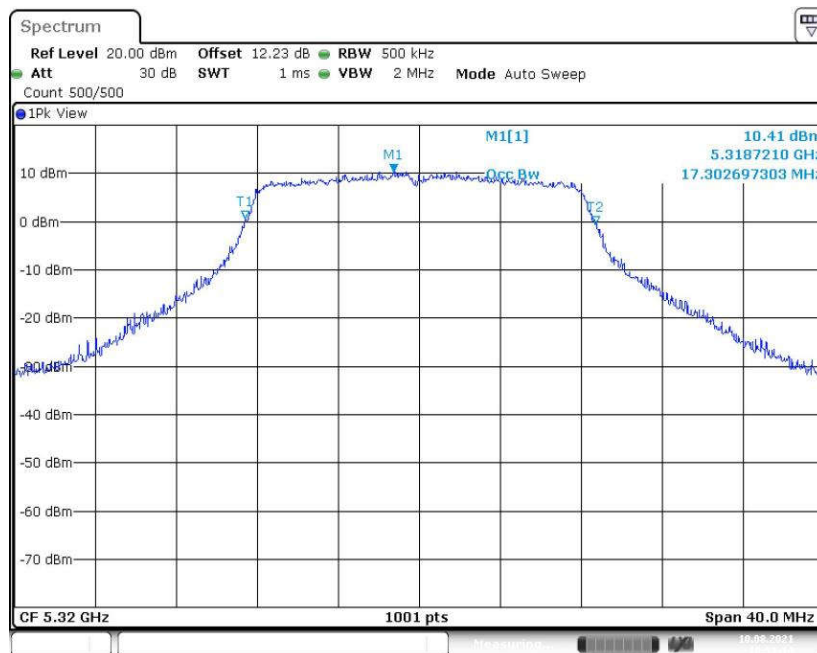


Fig. 38 99% Occupied Bandwidth (802.11a, 5320MHz)

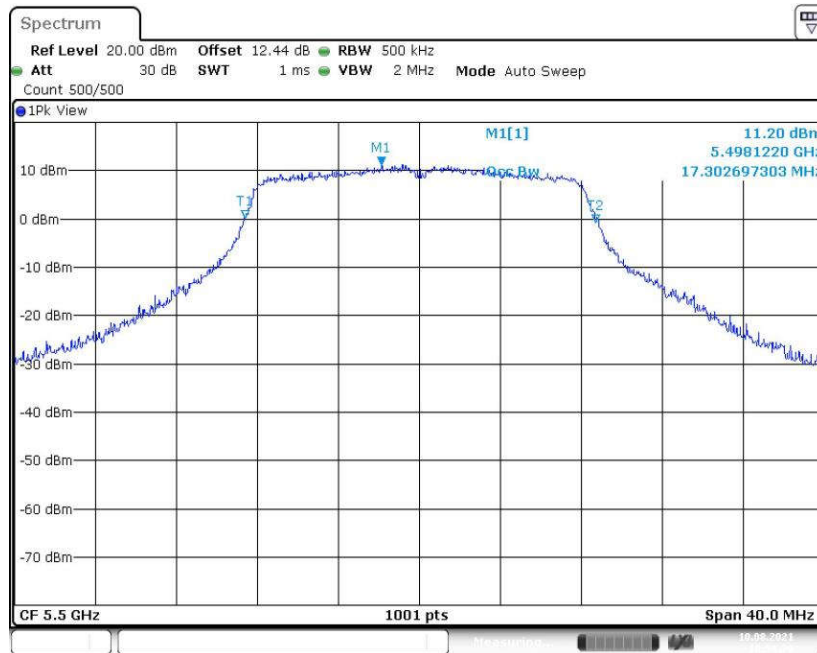


Fig. 39 99% Occupied Bandwidth (802.11a, 5500MHz)

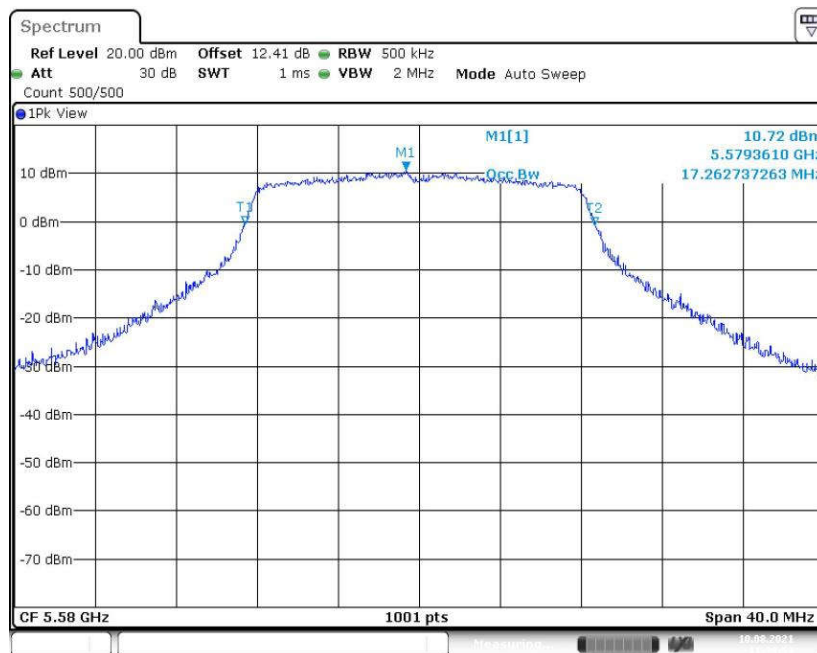


Fig. 40 99% Occupied Bandwidth (802.11a, 5580MHz)

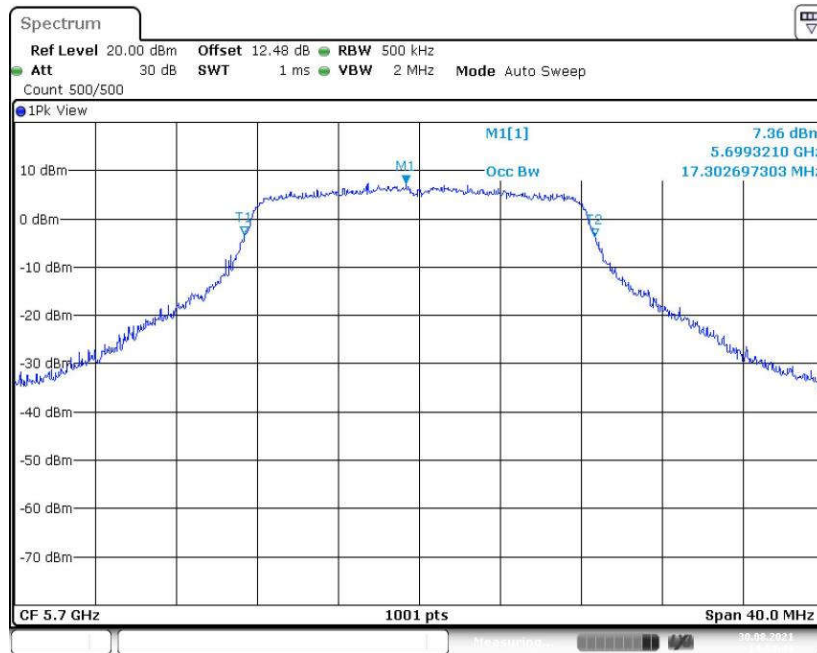


Fig. 41 99% Occupied Bandwidth (802.11a, 5700MHz)

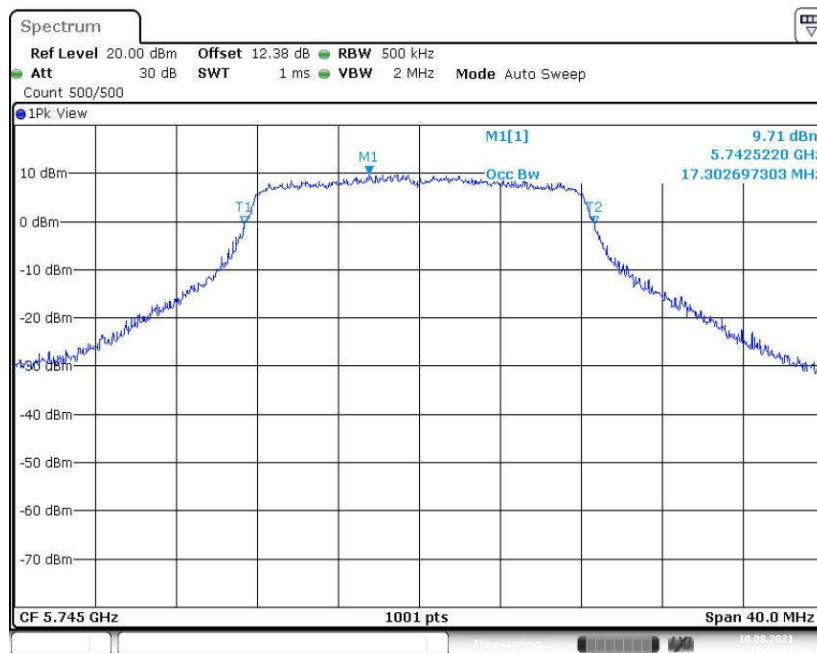


Fig. 42 99% Occupied Bandwidth (802.11a, 5745MHz)

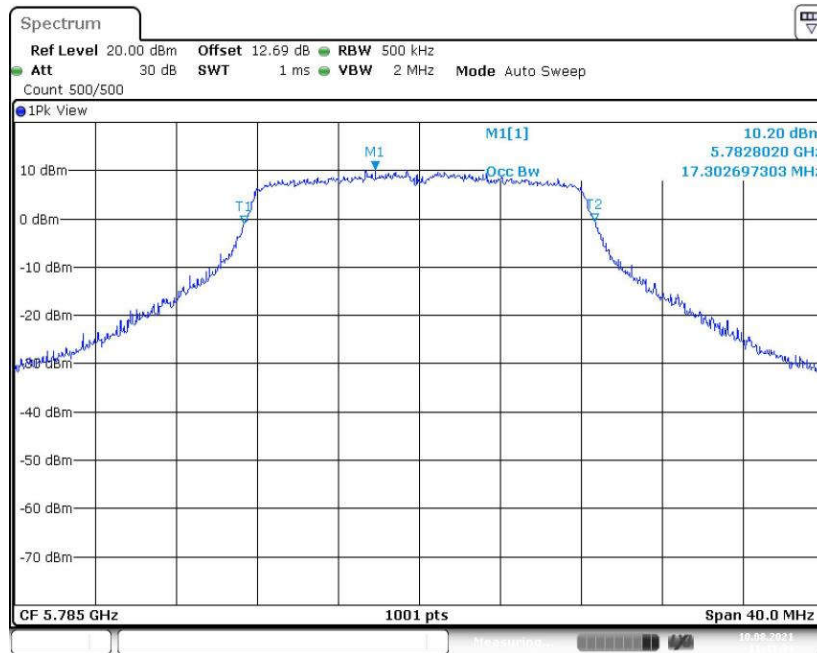


Fig. 43 99% Occupied Bandwidth (802.11a, 5785MHz)

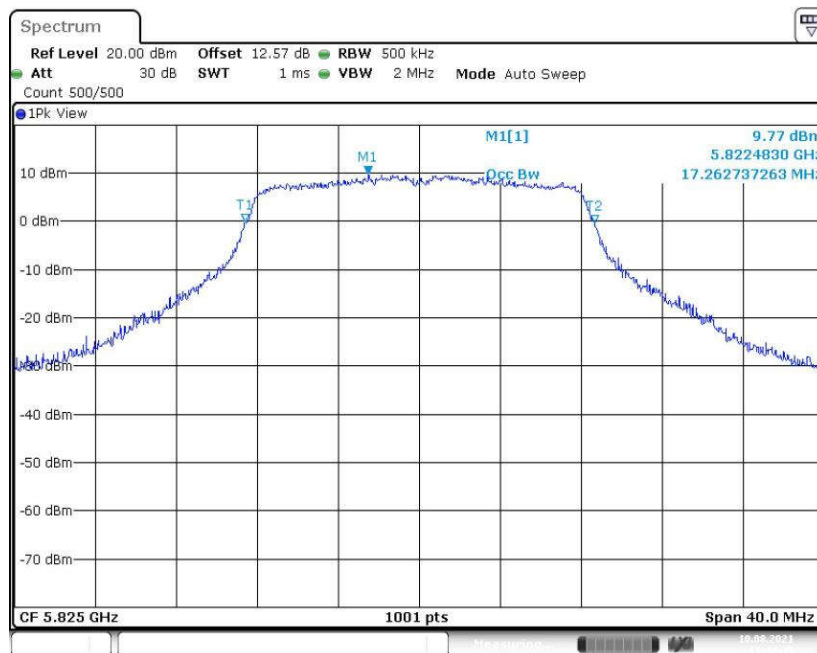


Fig. 44 99% Occupied Bandwidth (802.11a, 5825MHz)

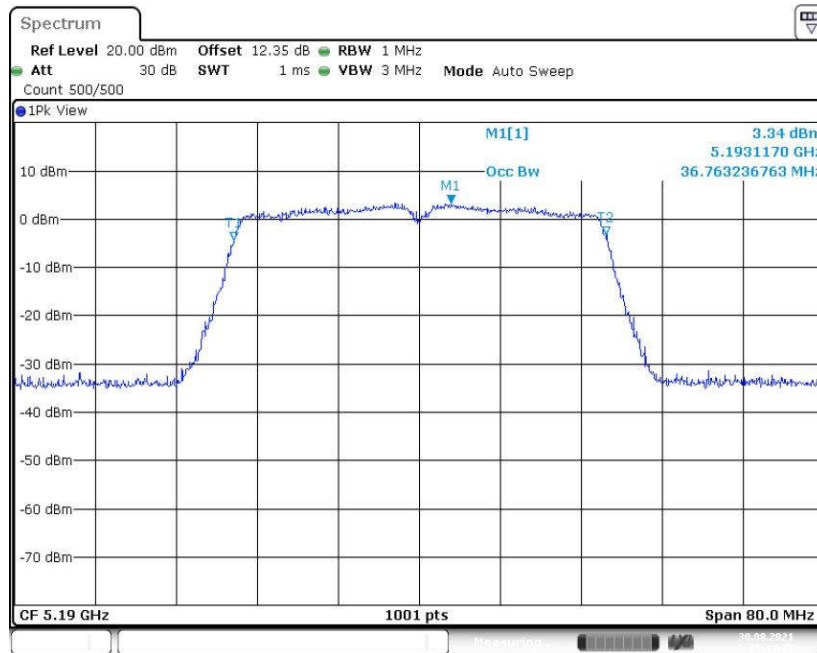


Fig. 45 99% Occupied Bandwidth (802.11n-HT40, 5190MHz)

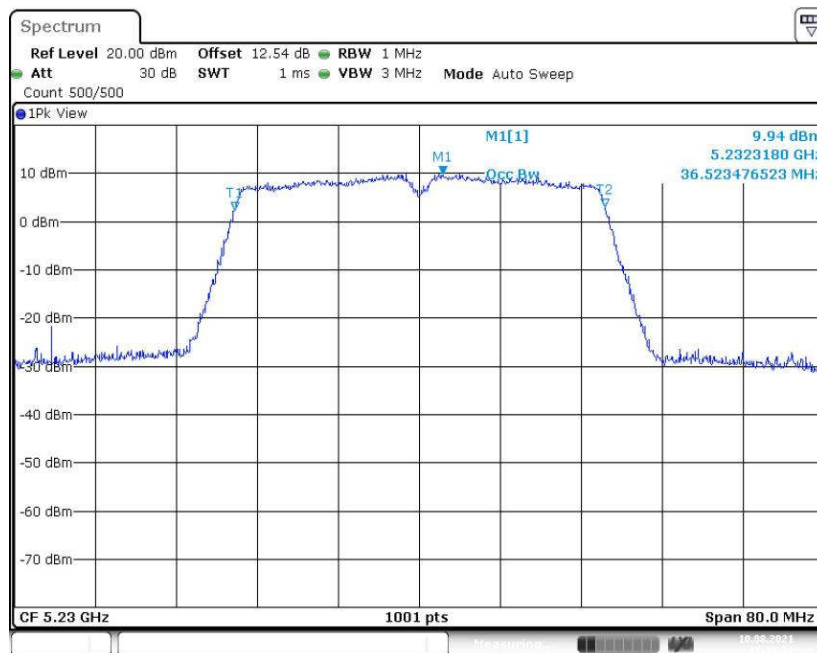


Fig. 46 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)

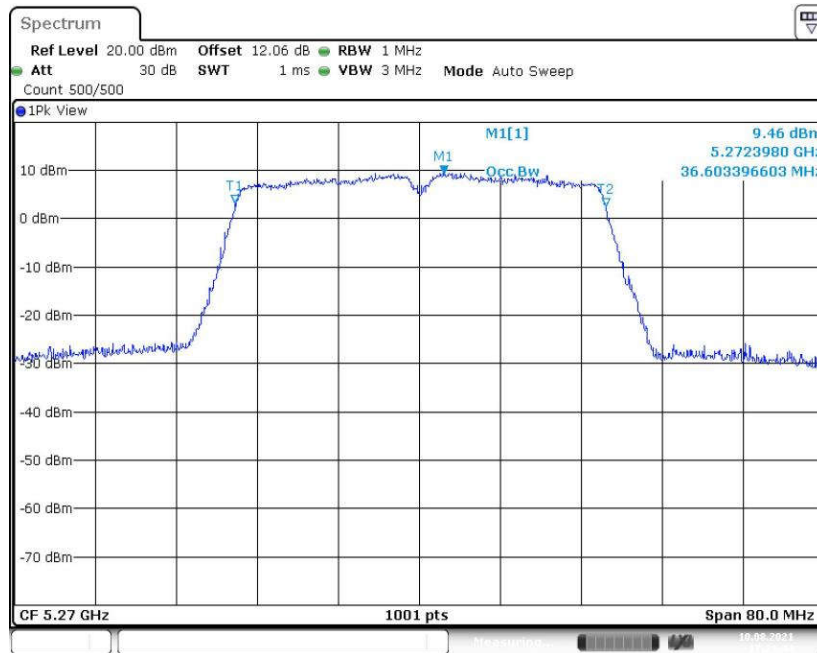


Fig. 47 99% Occupied Bandwidth (802.11n-HT40, 5270MHz)

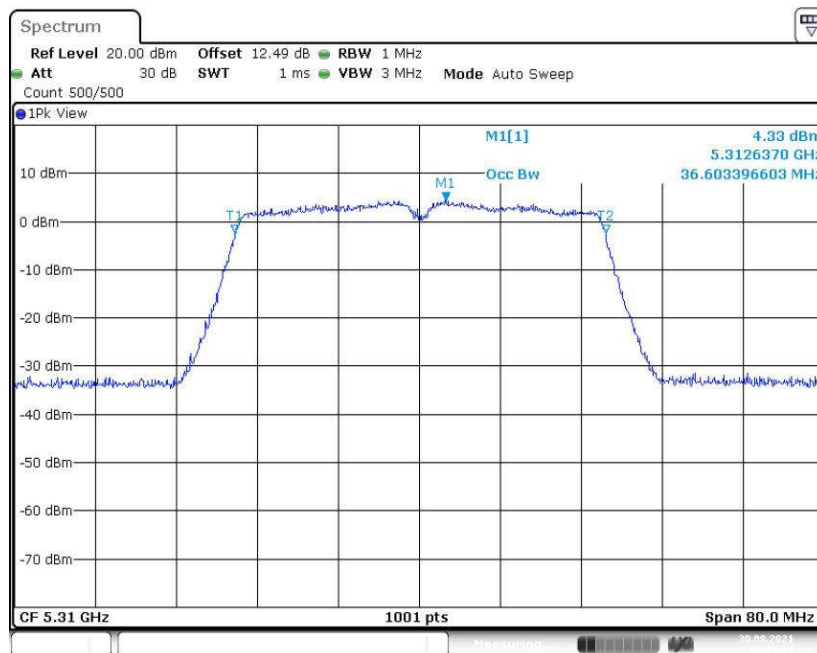


Fig. 48 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)

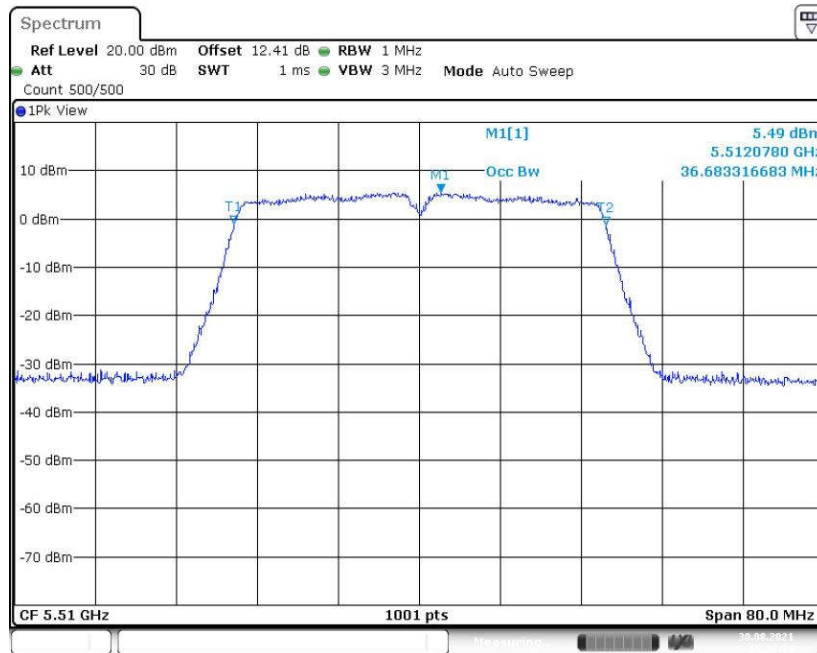


Fig. 49 99% Occupied Bandwidth (802.11n-HT40, 5510MHz)

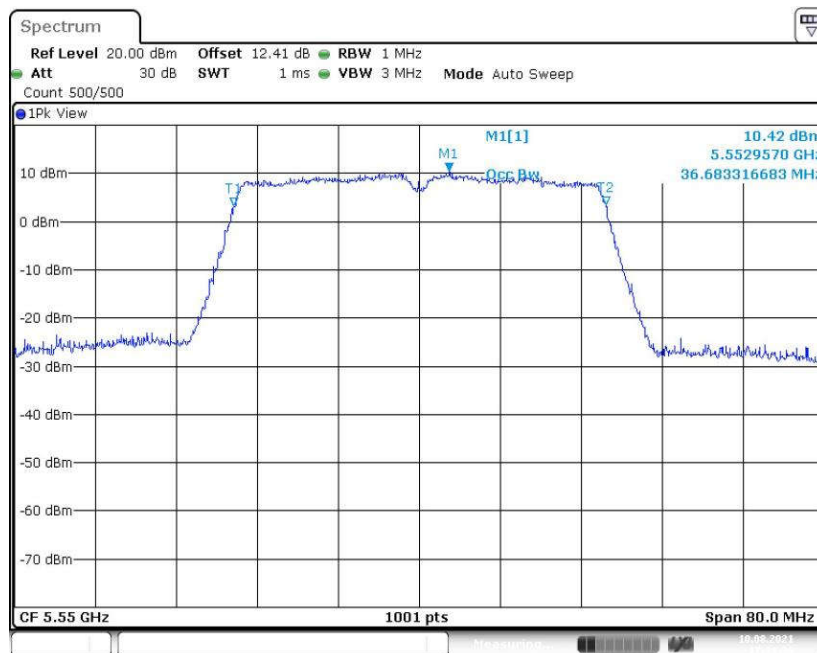


Fig. 50 99% Occupied Bandwidth (802.11n-HT40, 5550MHz)

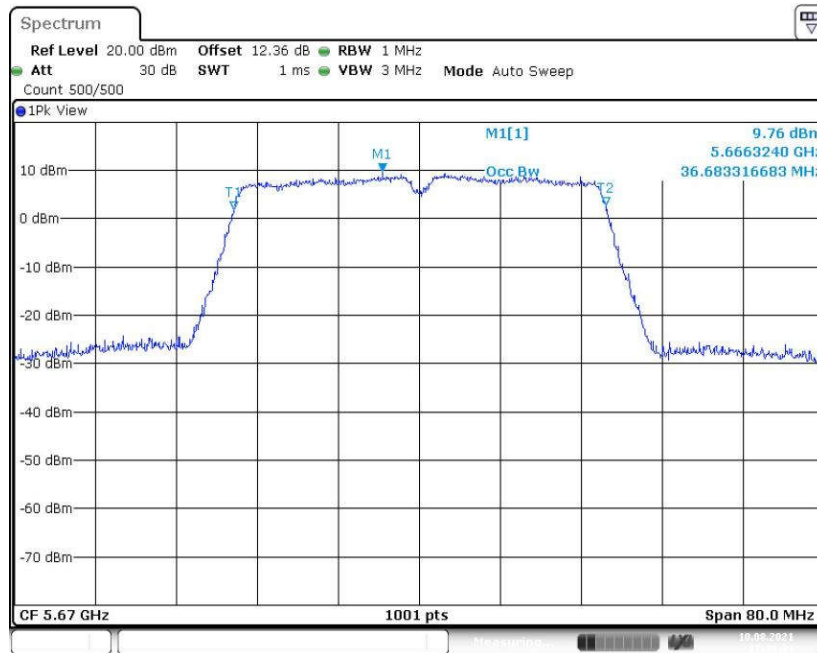


Fig. 51 99% Occupied Bandwidth (802.11n-HT40, 5670MHz)

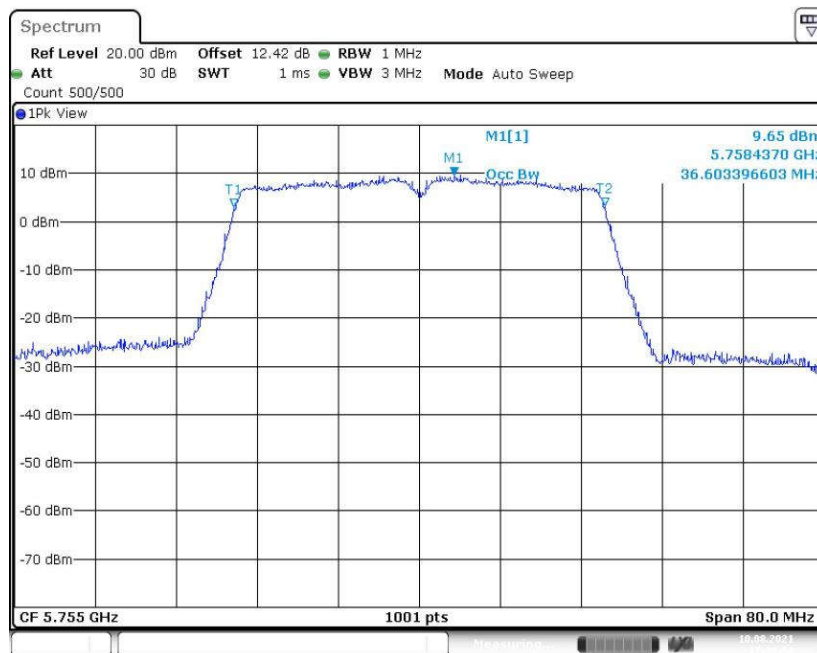


Fig. 52 99% Occupied Bandwidth (802.11n-HT40, 5755MHz)

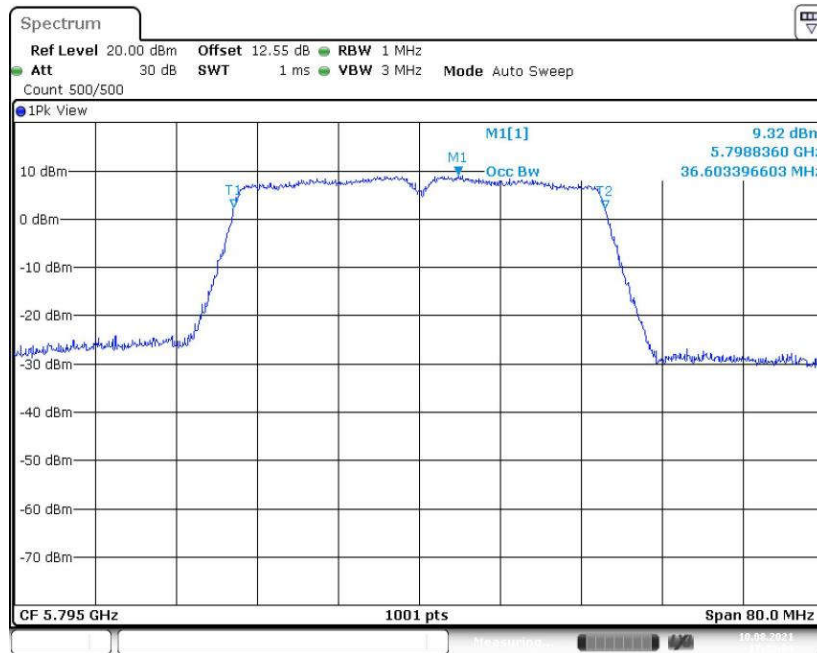


Fig. 53 99% Occupied Bandwidth (802.11n-HT40, 5795MHz)

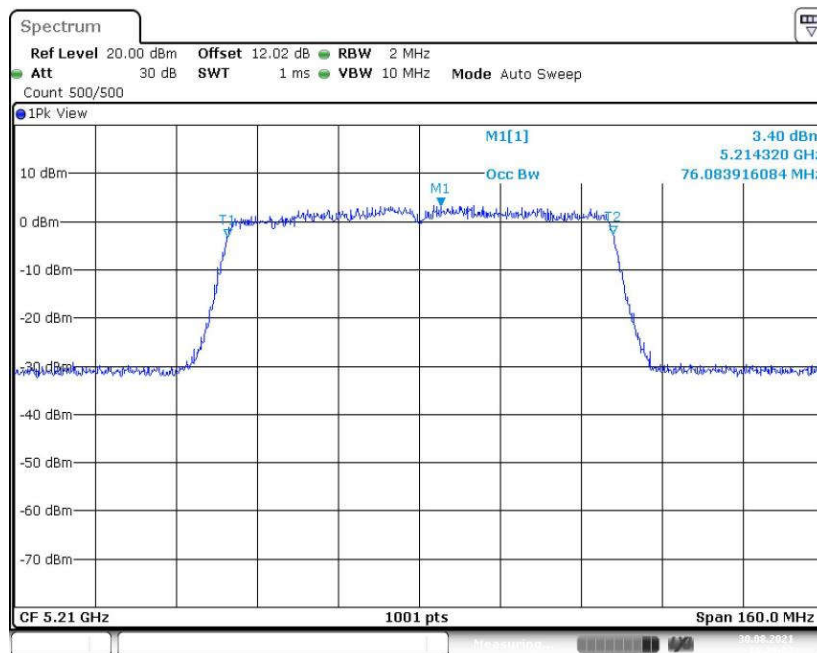


Fig. 54 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)

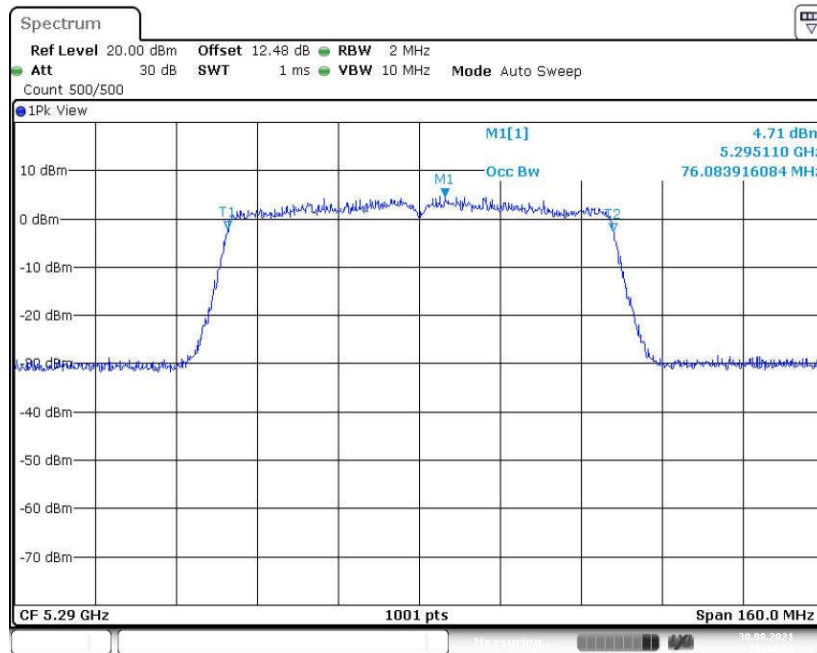


Fig. 55 99% Occupied Bandwidth (802.11ac-VHT80, 5290MHz)

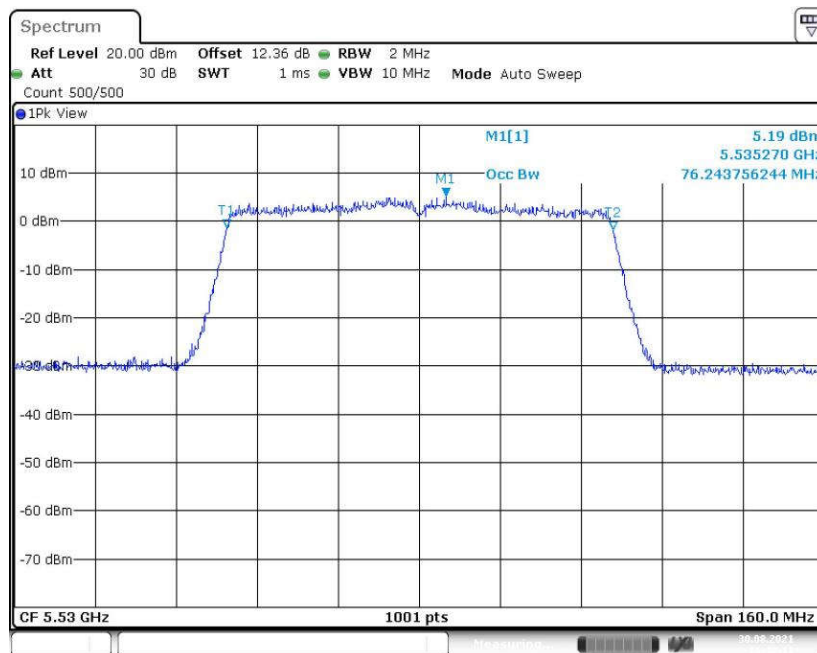


Fig. 56 99% Occupied Bandwidth (802.11ac-VHT80, 5530MHz)

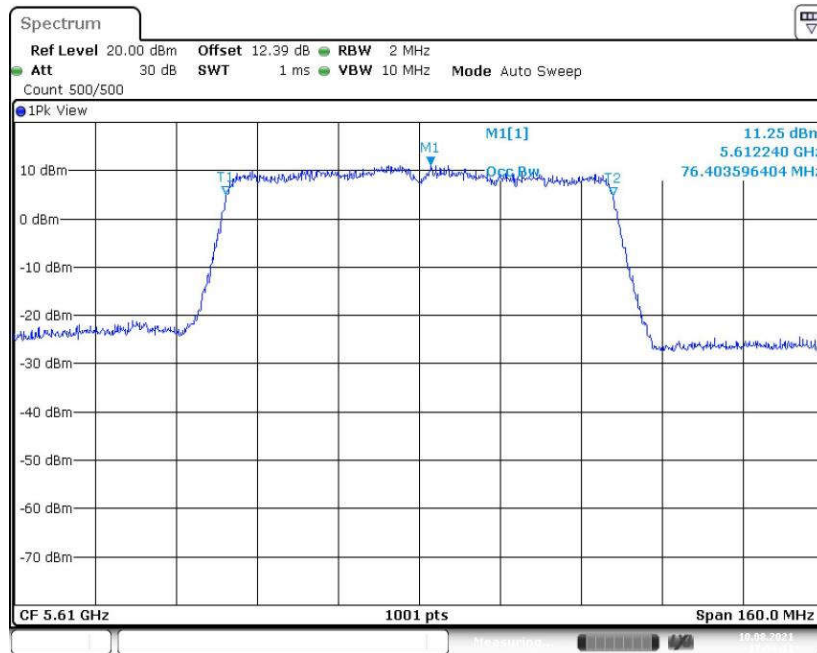


Fig. 57 99% Occupied Bandwidth (802.11ac-VHT80, 5610MHz)

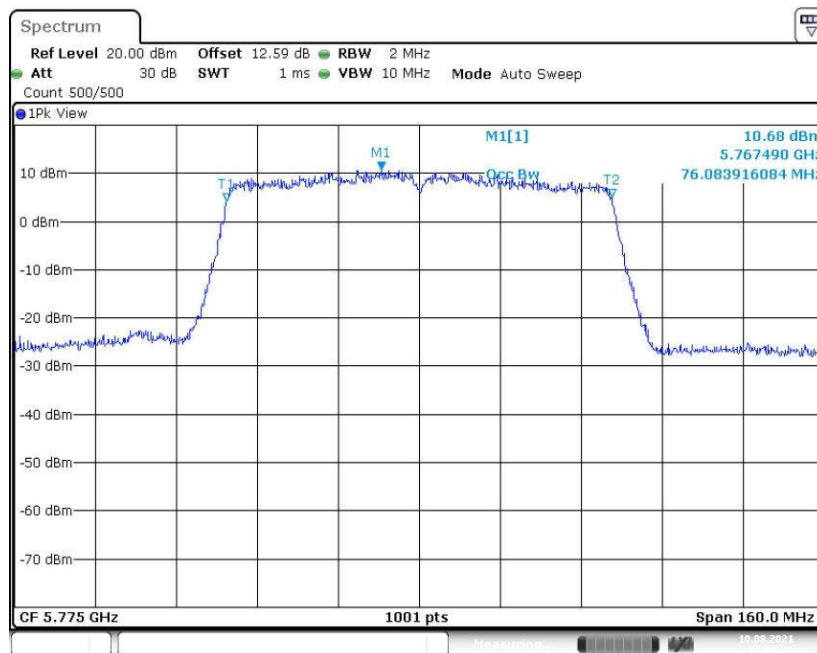


Fig. 58 99% Occupied Bandwidth (802.11ac-VHT80, 5775MHz)

A.7. Dynamic Frequency Selection

Measurement Limit:

Standard	Test Items	Limit
FCC 47 CFR Part 15.407 (h)	Channel Move Time	< 10 s
	Channel Closing Transmission Time	< 200 ms + 60 ms

The measurement is made according to KDB 905462.

1). Parameters of DFS test signal:

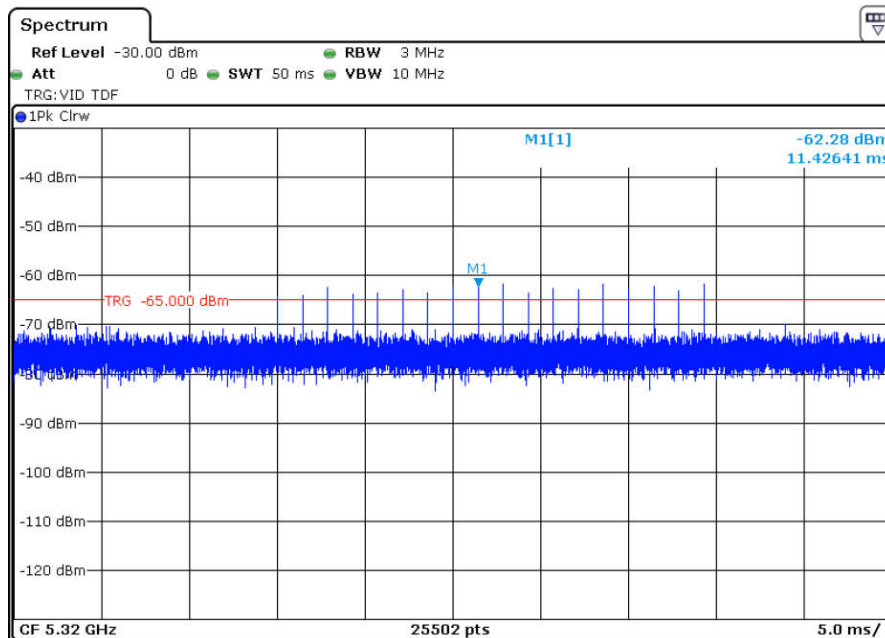
Interference threshold values, master or client incorporation in service monitoring. For device Power less than 23dBm (E.I.R.P.), the threshold level is -62 dBm at the antenna port after Correction for antenna gain and procedural adjustments.

Because of conducted measurement performed, the calibration power from radar signal generator to antenna port of DFS test equipment is -62 dBm.

Maximum Transmit Power	Value
> 200 mW	-64 dBm
< 200 mW	-62 dBm

2). Parameters of the reference DFS test signal:

Pulse width W (µs)	Pulse repetition frequency PRF (PPS)	Pulses per burst (PPB)
1	700	18



Radar Signal (Type 0)



Measurement Results:

Channel Move Time & Channel Closing Transmission Time:

Mode	Channel	Test Results	Conclusion
802.11a	5320MHz(Ch64)	Fig.59	P
802.11ac-VHT80	5530MHz(Ch106)	Fig.60	P

See below for test graphs.

Conclusion: **PASS**

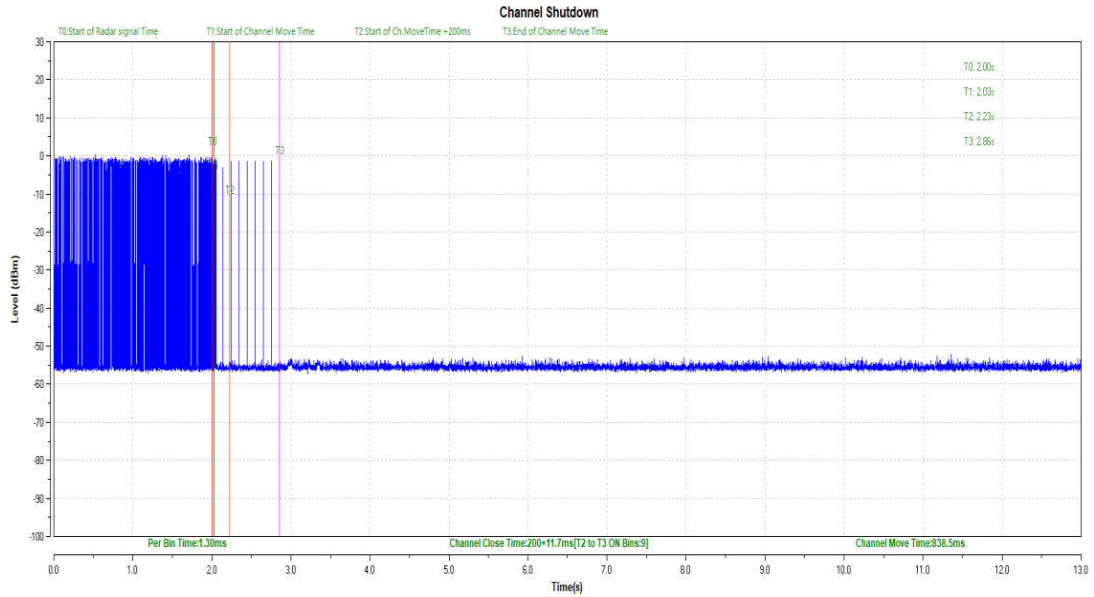


Fig. 59 Channel Move Time & Channel Closing Transmission Time (802.11a Frequency Band: 5250MHz ~ 5350MHz)

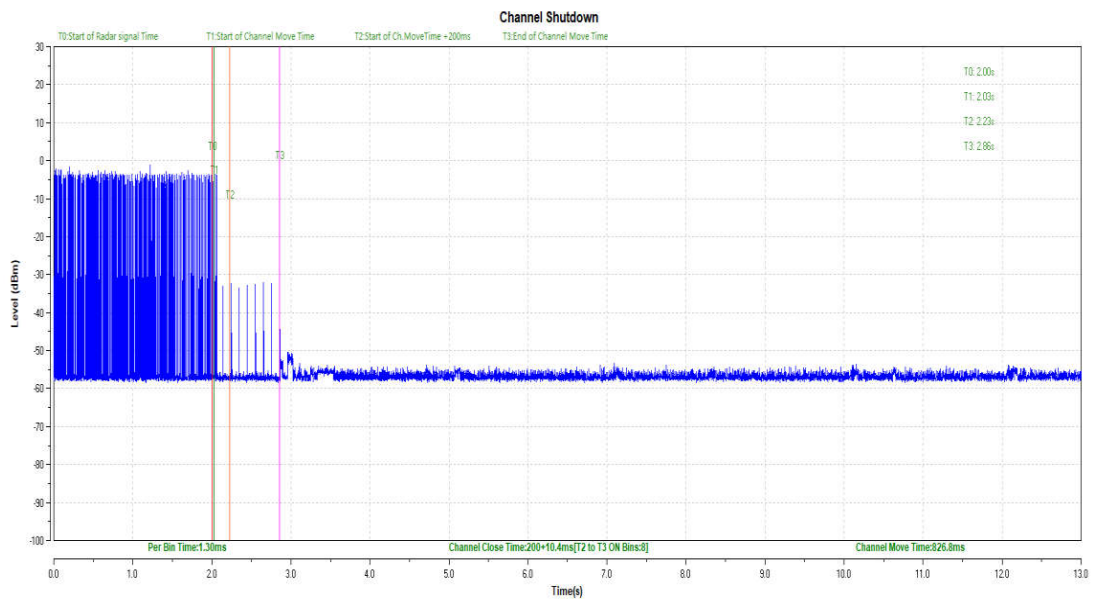


Fig. 60 Channel Move Time & Channel Closing Transmission Time (802.11ac-VHT80 Frequency Band: 5470MHz~5725MHz)



A.8. Band Edges Compliance

Measurement Limit:

Standard	Limit (dB μ V/m)	
	FCC 47 CFR Part 15.209	Peak
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)).

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180MHz (CH36)	Fig.61	P
	5320MHz (CH64)	Fig.62	P
	5500MHz (CH100)	Fig.63	P
	5700MHz (CH140)	Fig.64	P
	5745MHz (CH149)	Fig.65	P
	5825MHz (CH165)	Fig.66	P
802.11n-HT40	5190MHz (CH38)	Fig.67	P
	5310MHz (CH62)	Fig.68	P
	5510MHz (CH102)	Fig.69	P
	5670MHz (CH134)	Fig.70	P
	5755MHz (CH151)	Fig.71	P
	5795MHz (CH159)	Fig.72	P
802.11ac-VHT80	5210MHz (CH42)	Fig.73	P
	5290MHz (CH58)	Fig.74	P
	5530MHz (CH106)	Fig.75	P
	5610MHz (Ch122)	Fig.76	P
	5775MHz (CH155)	Fig.77	P

See below for test graphs.

Conclusion: PASS

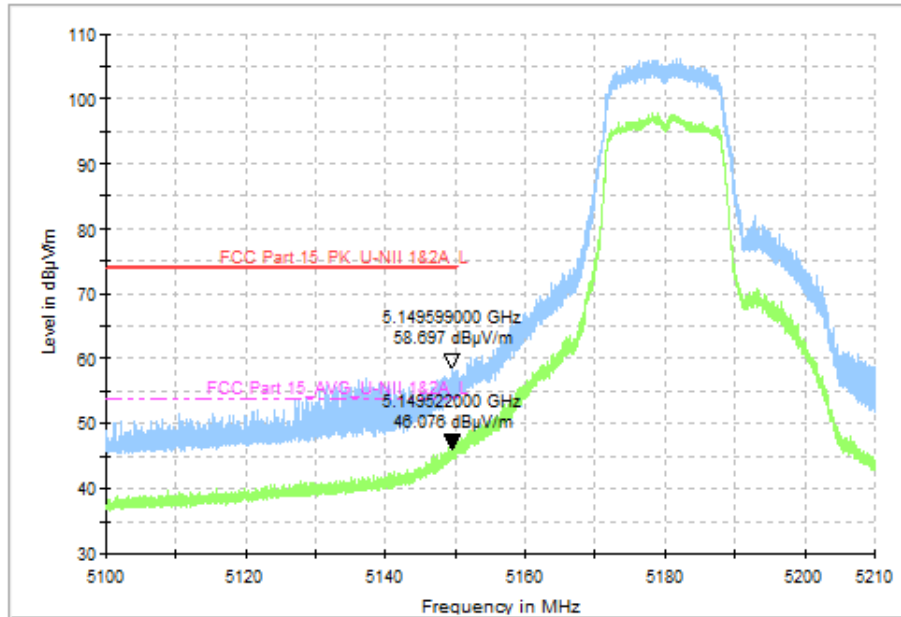


Fig. 61 Band Edges (802.11a, CH36 5180MHz)

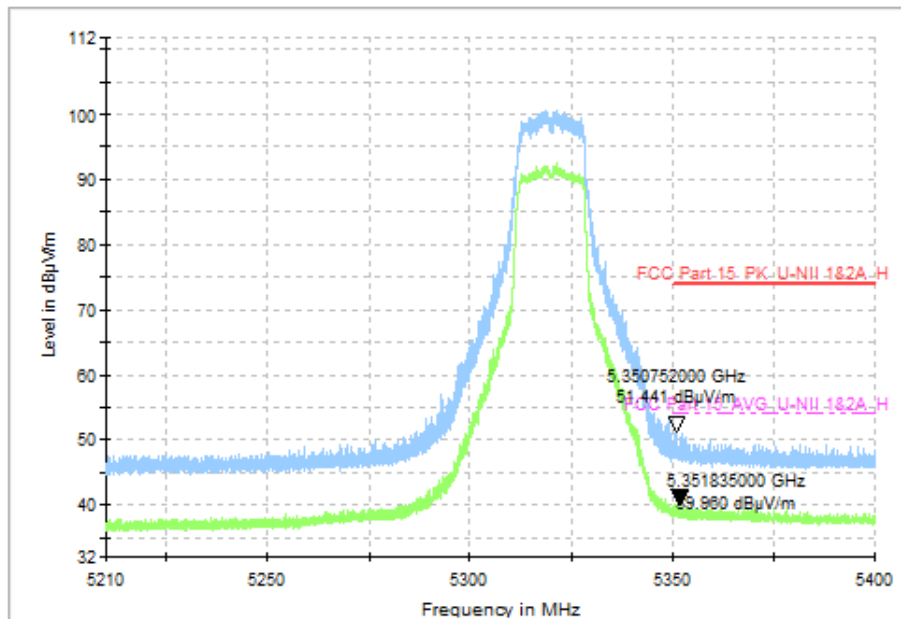


Fig. 62 Band Edges (802.11a, CH64 5320MHz)

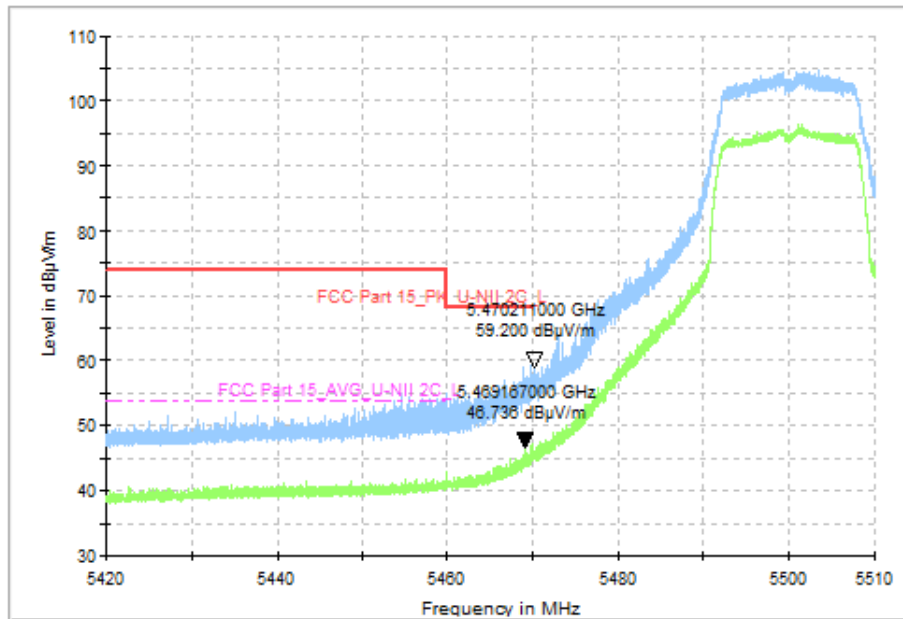


Fig. 63 Band Edges (802.11a, CH100 5500MHz)

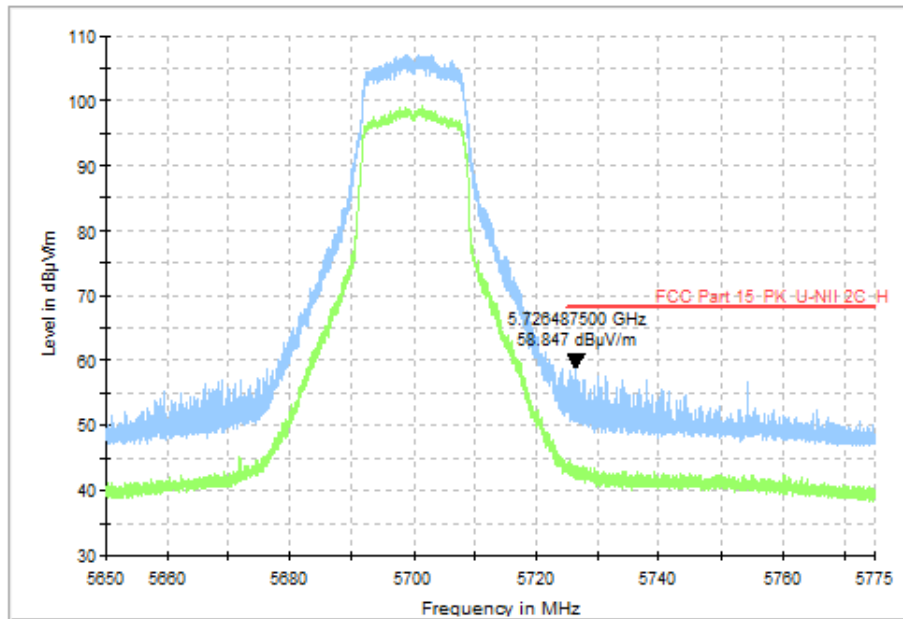


Fig. 64 Band Edges (802.11a, CH140 5700MHz)

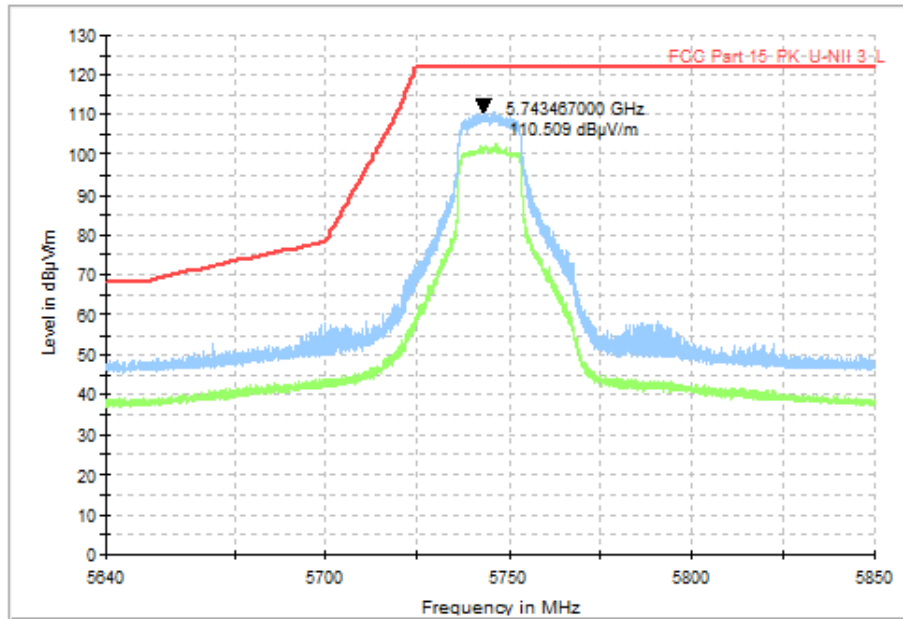


Fig. 65 Band Edges (802.11a, CH149 5745MHz)

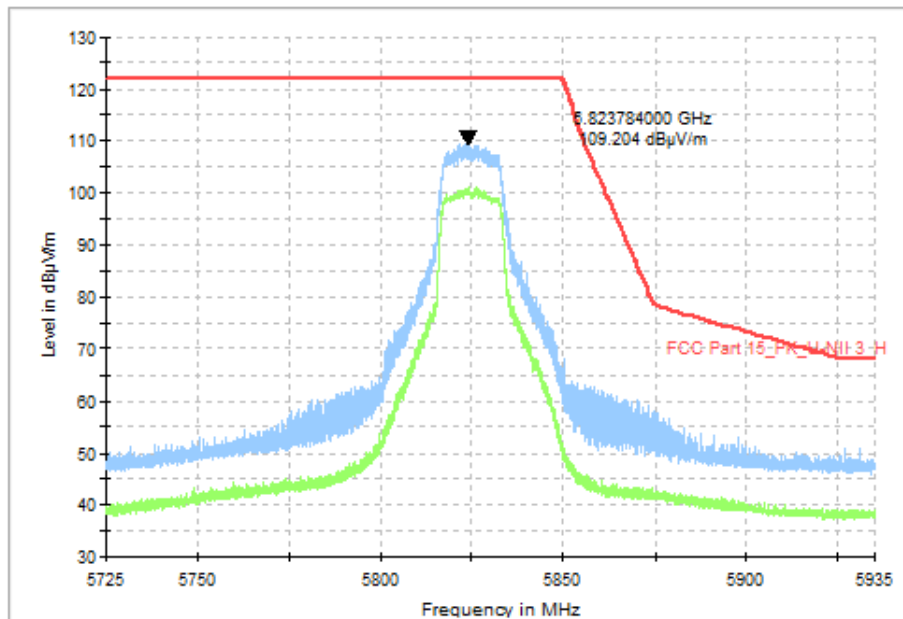


Fig. 66 Band Edges (802.11a, CH165 5825MHz)

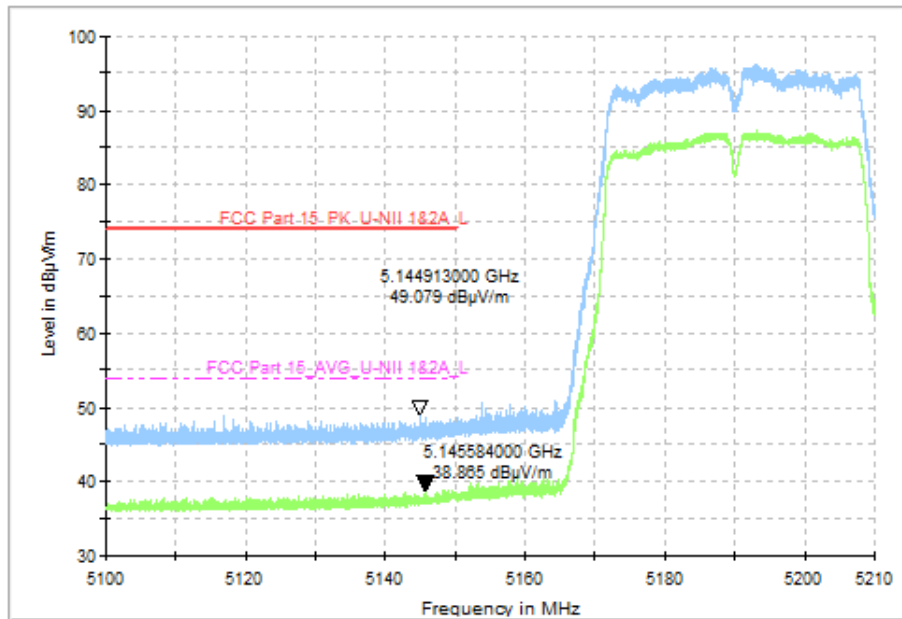


Fig. 67 Band Edges (802.11n-HT40, CH38 5190MHz)

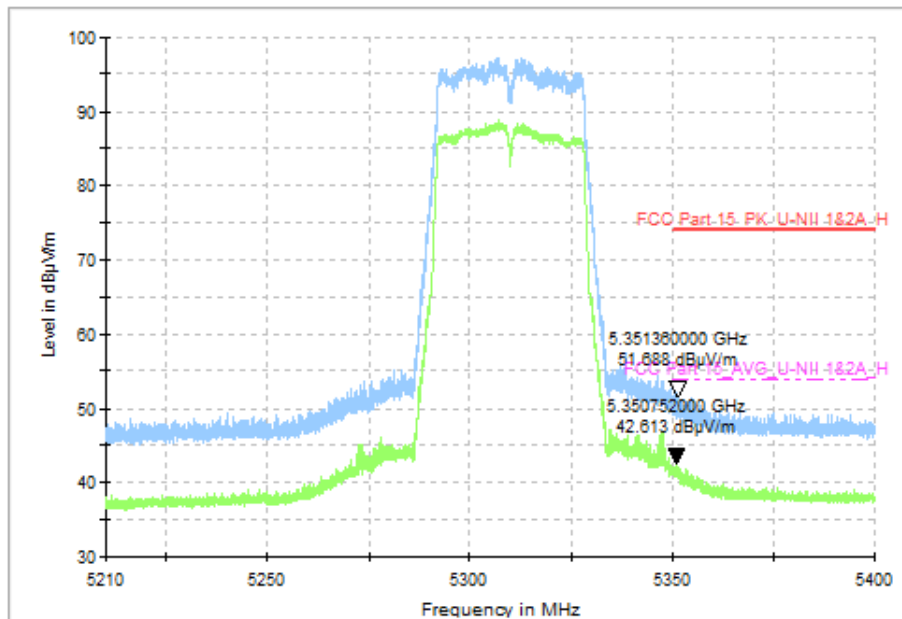


Fig. 68 Band Edges (802.11n-HT40, CH62 5310MHz)

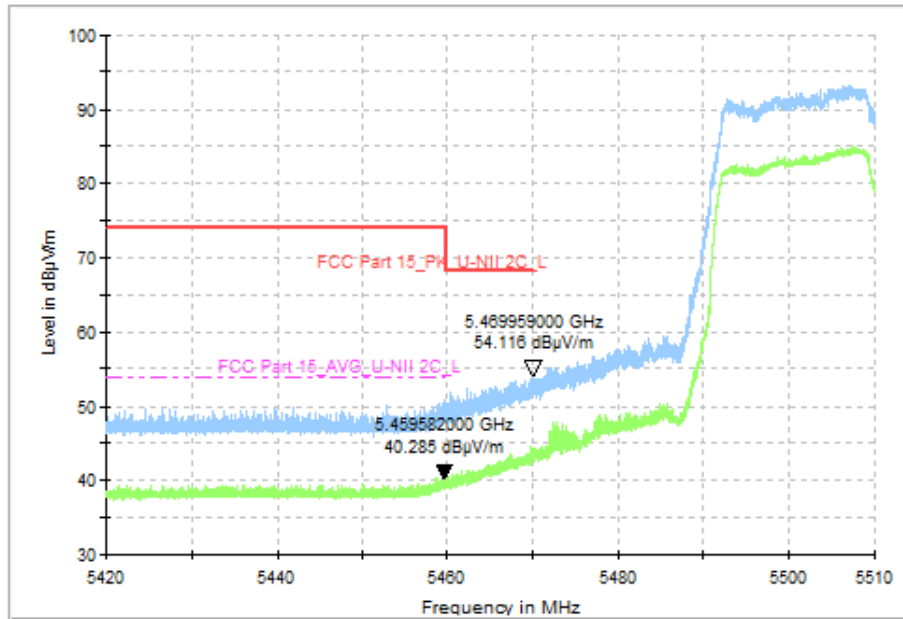


Fig. 69 Band Edges (802.11n-HT40, CH102 5510MHz)

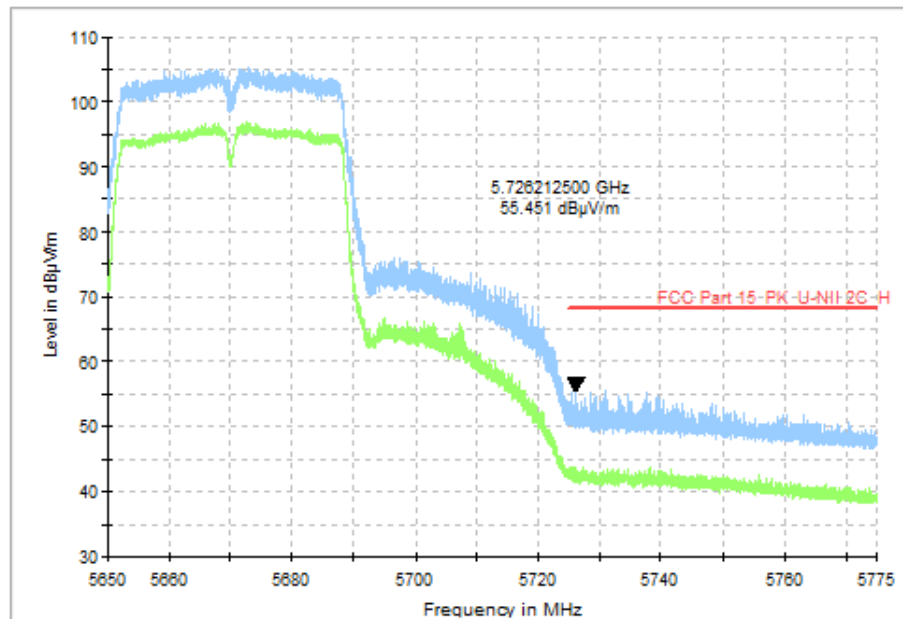


Fig. 70 Band Edges (802.11n-HT40, CH134 5670MHz)

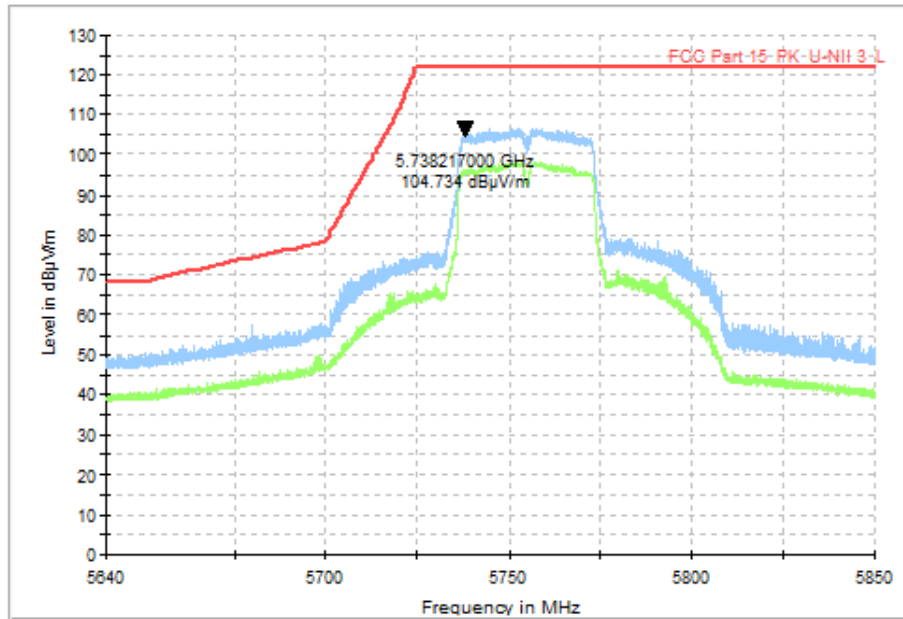


Fig. 71 Band Edges (802.11n-HT40, CH151 5755MHz)

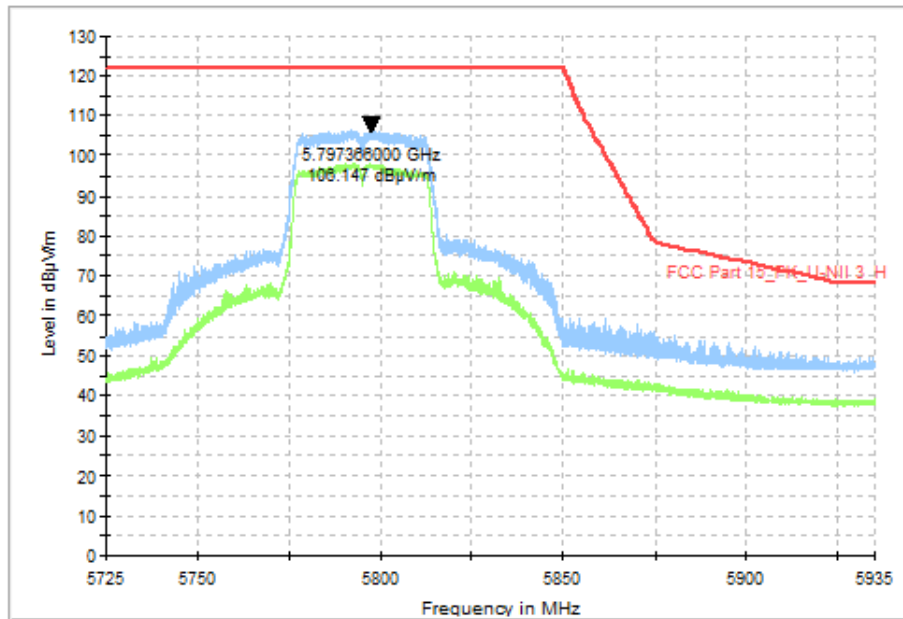


Fig. 72 Band Edges (802.11n-HT40, CH159 5795MHz)

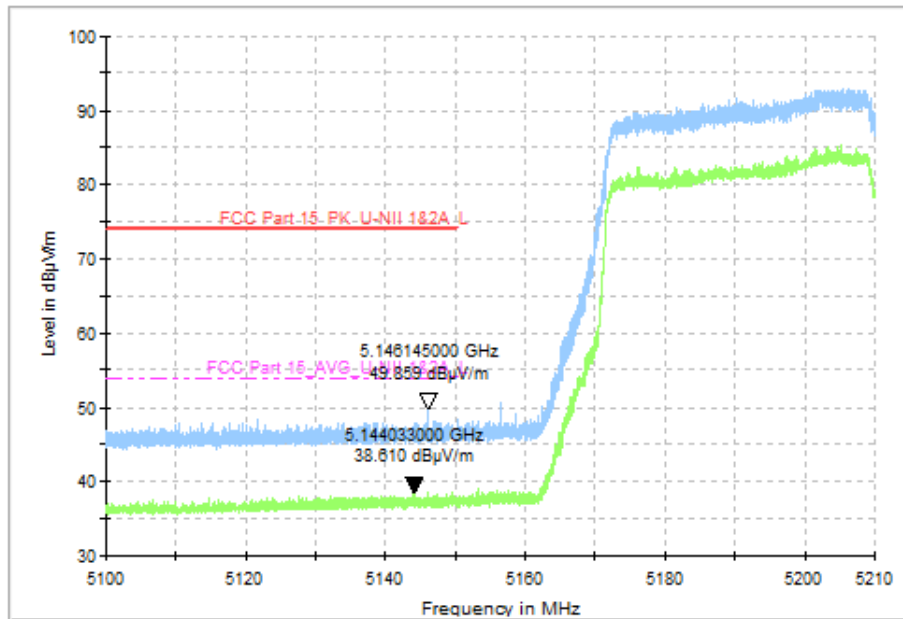


Fig. 73 Band Edges (802.11ac-VHT80, CH42 5210MHz)

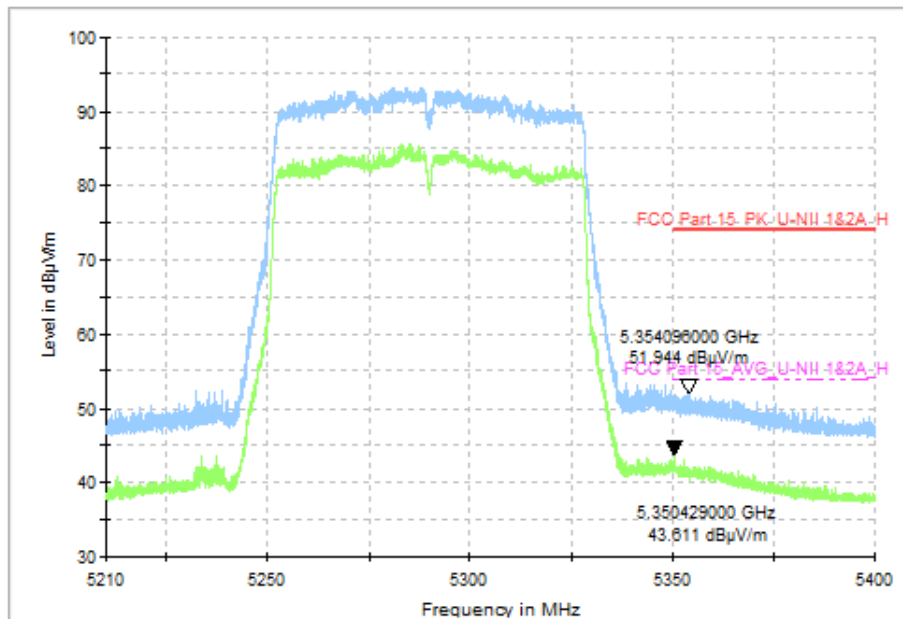


Fig. 74 Band Edges (802.11ac-VHT80, CH58 5290MHz)

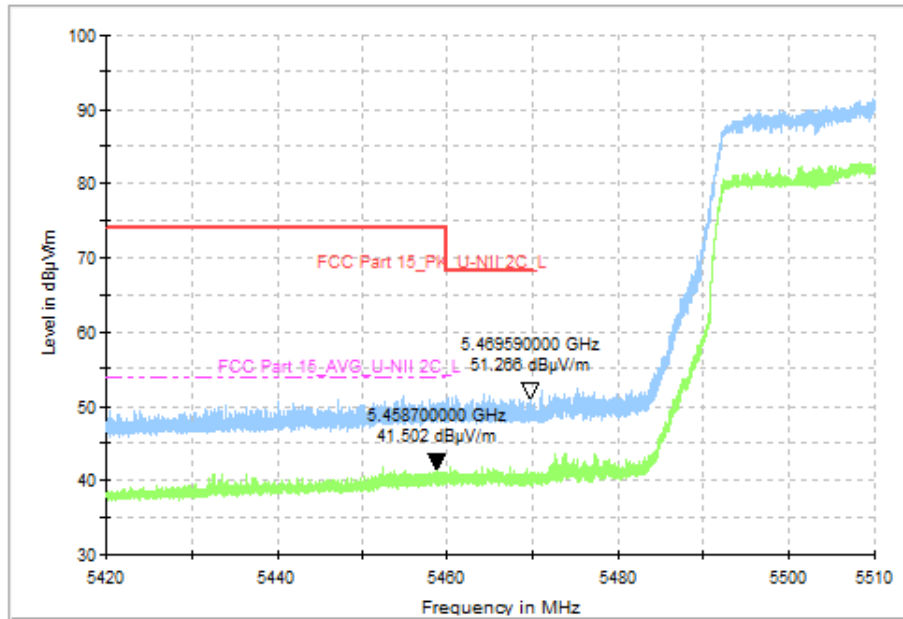


Fig. 75 Band Edges (802.11ac-VHT80, CH106 5530MHz)

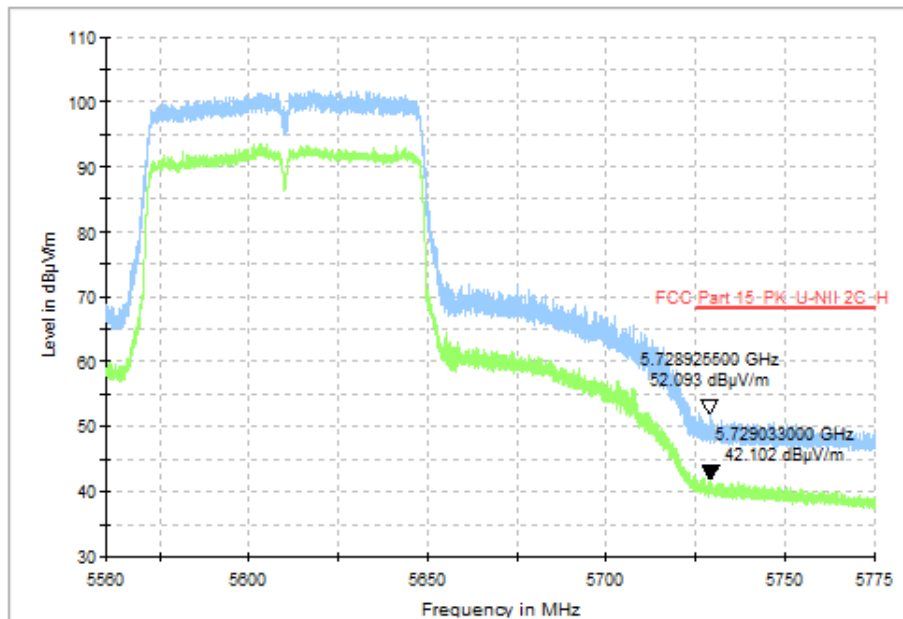


Fig. 76 Band Edges (802.11ac-VHT80, CH122 5610MHz)

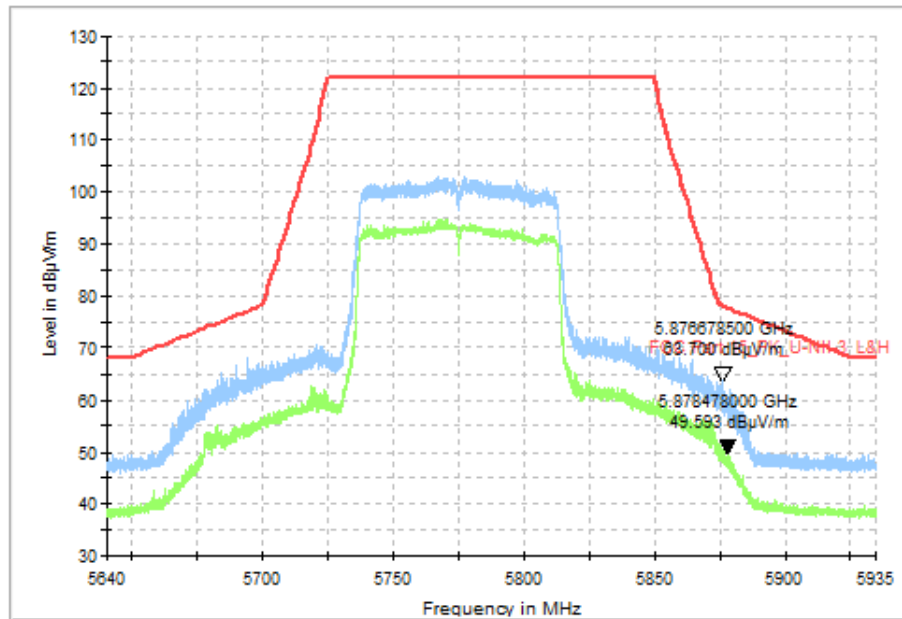


Fig. 77 Band Edges (802.11ac-VHT80, CH155 5775MHz)

A.9. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit (dB μ V/m)	
	FCC 47 CFR Part 15.209	Peak
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)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (dB μ V/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.78	P
	5200MHz (Ch40)	1 GHz ~18 GHz	Fig.79	P
	5240MHz (Ch48)	1 GHz ~18 GHz	Fig.80	P
	5260MHz (Ch52)	1 GHz ~18 GHz	Fig.81	P
	5280MHz (Ch56)	1 GHz ~18 GHz	Fig.82	P
	5320MHz (Ch64)	1 GHz ~18 GHz	Fig.83	P
	5500MHz (Ch100)	1 GHz ~18 GHz	Fig.84	P
	5600MHz (Ch120)	1 GHz ~18 GHz	Fig.85	P
	5700MHz (Ch140)	1 GHz ~18 GHz	Fig.86	P
	5745MHz (Ch149)	1 GHz ~18 GHz	Fig.87	P
	5785MHz (Ch157)	1 GHz ~18 GHz	Fig.88	P
5825MHz (Ch165)	1 GHz ~18 GHz	Fig.89	P	
802.11n-HT40	5190MHz (Ch38)	1 GHz ~18 GHz	Fig.90	P
	5230MHz (Ch46)	1 GHz ~18 GHz	Fig.91	P
	5270MHz (Ch54)	1 GHz ~18 GHz	Fig.92	P
	5310MHz (Ch62)	1 GHz ~18 GHz	Fig.93	P
	5510MHz (Ch102)	1 GHz ~18 GHz	Fig.94	P
	5580MHz (Ch118)	1 GHz ~18 GHz	Fig.95	P
	5670MHz (Ch134)	1 GHz ~18 GHz	Fig.96	P
	5755MHz (Ch151)	1 GHz ~18 GHz	Fig.97	P
5795MHz (Ch159)	1 GHz ~18 GHz	Fig.98	P	



802.11ac -VHT80	5210MHz (Ch42)	1 GHz ~18 GHz	Fig.99	P
	5290MHz (Ch58)	1 GHz ~18 GHz	Fig.100	P
	5530MHz (Ch106)	1 GHz ~18 GHz	Fig.101	P
	5610MHz (Ch122)	1 GHz ~18 GHz	Fig.102	P
	5775MHz (Ch155)	1 GHz ~18 GHz	Fig.103	P
All channels		30 MHz ~1 GHz	Fig.104	P
		18 GHz ~26.5 GHz	Fig.105	P
		26.5GHz~40GHz	Fig.106	P

Worst Case Result

802.11a CH100

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
10890.000000	46.79	74.00	27.21	H	9.3
12602.307692	48.17	74.00	25.83	V	11.3
14829.692308	50.08	68.20	18.12	H	12.9
15881.538462	51.88	74.00	22.12	V	14.0
17061.692308	54.91	68.20	13.29	H	18.5
17919.692308	54.42	74.00	19.58	H	18.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
10890.000000	36.58	54.00	17.42	H	9.3
11621.692308	40.15	54.00	13.85	H	12.9
12602.307692	37.44	54.00	16.56	V	11.3
15881.538462	41.80	54.00	12.20	V	14.0
17914.692308	43.35	54.00	10.65	H	18.5
17919.692308	44.52	54.00	9.48	H	18.9

802.11n-HT40 CH102

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
11117.538462	46.40	74.00	27.60	H	9.7
11805.230769	46.48	74.00	27.52	V	10.0
12461.076923	48.55	74.00	25.45	H	11.4
15900.923077	51.66	74.00	22.34	V	14.1
16864.615385	53.26	68.20	14.94	H	18.0
17915.538462	54.48	74.00	19.52	V	18.9



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
11117.538462	36.64	54.00	17.36	H	9.7
11805.230769	36.22	54.00	17.78	V	10.0
12461.076923	37.70	54.00	16.30	H	11.4
15900.923077	40.87	54.00	13.13	V	14.1
16141.615385	42.91	54.00	11.09	H	18.0
17915.538462	44.09	54.00	9.91	V	18.9

802.11ac-VHT80 CH106

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
8178.000000	44.68	74.00	29.32	H	6.0
10890.461539	47.54	74.00	26.46	V	9.3
11814.000000	46.57	74.00	27.43	V	10.0
12421.384615	48.00	74.00	26.00	H	11.4
15876.000000	51.50	74.00	22.50	V	14.0
17928.000000	54.81	74.00	19.19	V	18.9

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
8178.000000	34.45	54.00	19.55	H	6.0
10890.461539	36.64	54.00	17.36	V	9.3
11814.000000	36.49	54.00	17.51	V	10.0
12421.384615	37.52	54.00	16.48	H	11.4
15876.000000	41.81	54.00	12.19	V	14.0
17928.000000	43.96	54.00	10.04	V	18.9

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:

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

See below for test graphs.

Conclusion: PASS

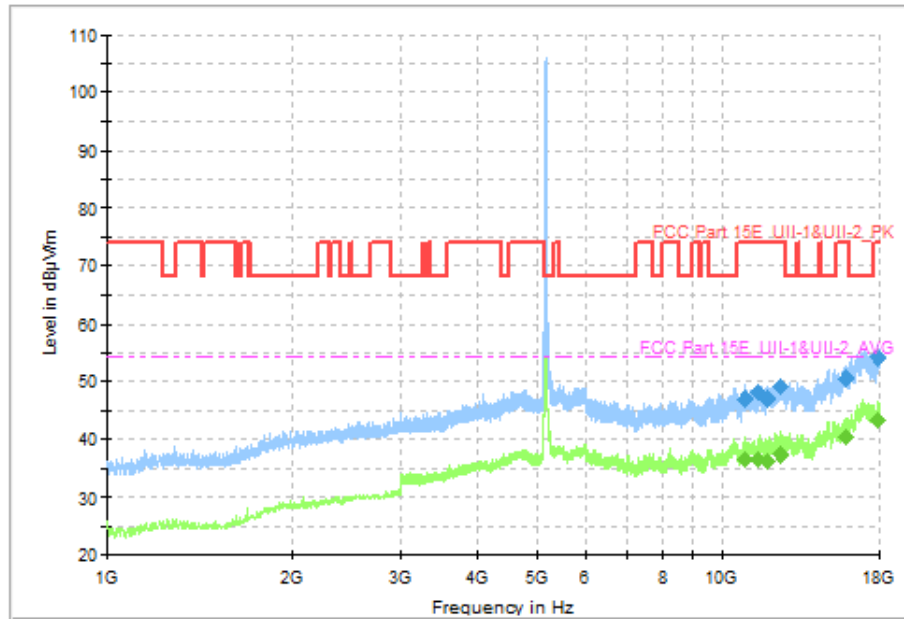


Fig. 78 Transmitter Spurious Emission (802.11a, CH36 5180MHz, 1 GHz-18 GHz)

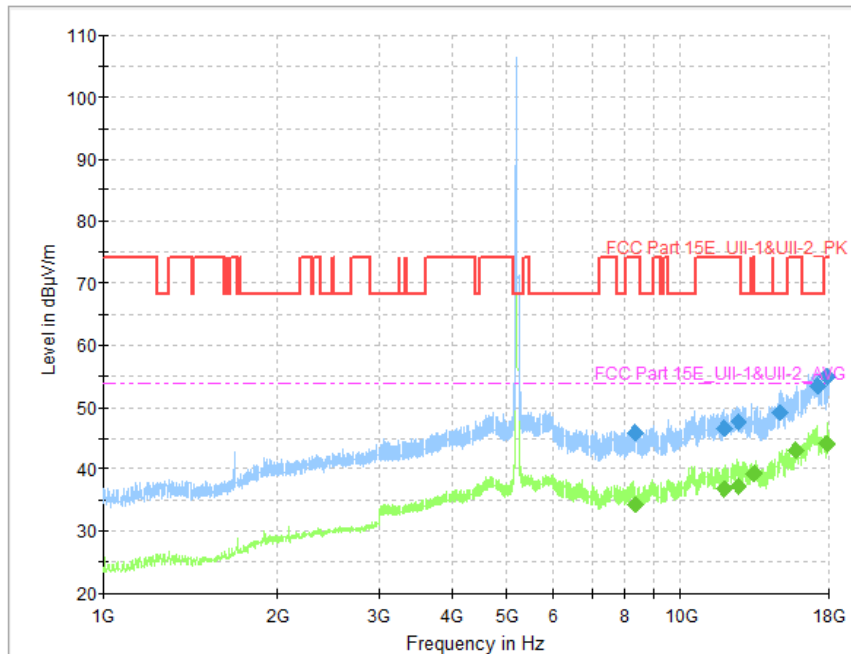


Fig. 79 Transmitter Spurious Emission (802.11a, CH40 5200MHz, 1 GHz-18 GHz)

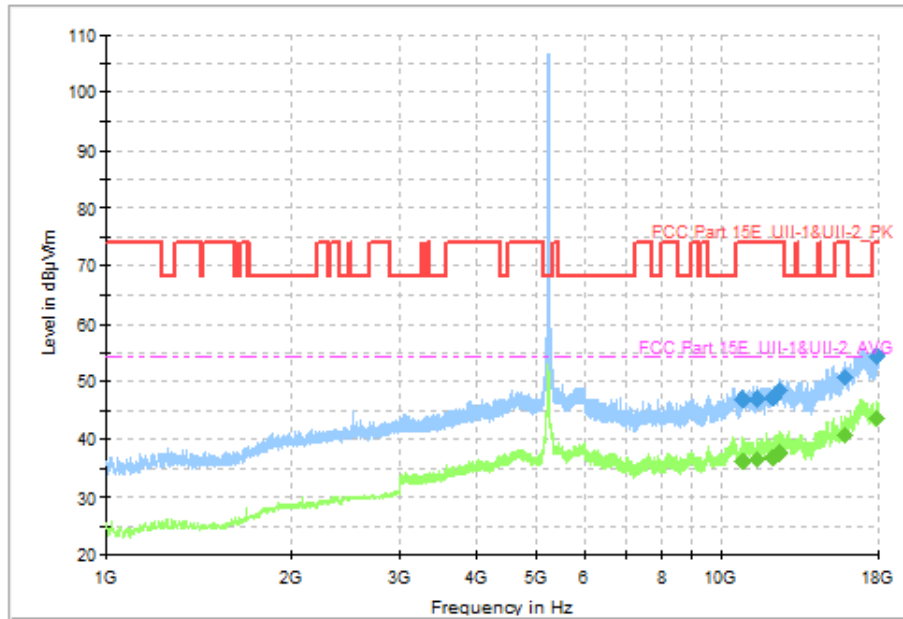


Fig. 80 Transmitter Spurious Emission (802.11a, CH48 5240MHz, 1 GHz-18 GHz)

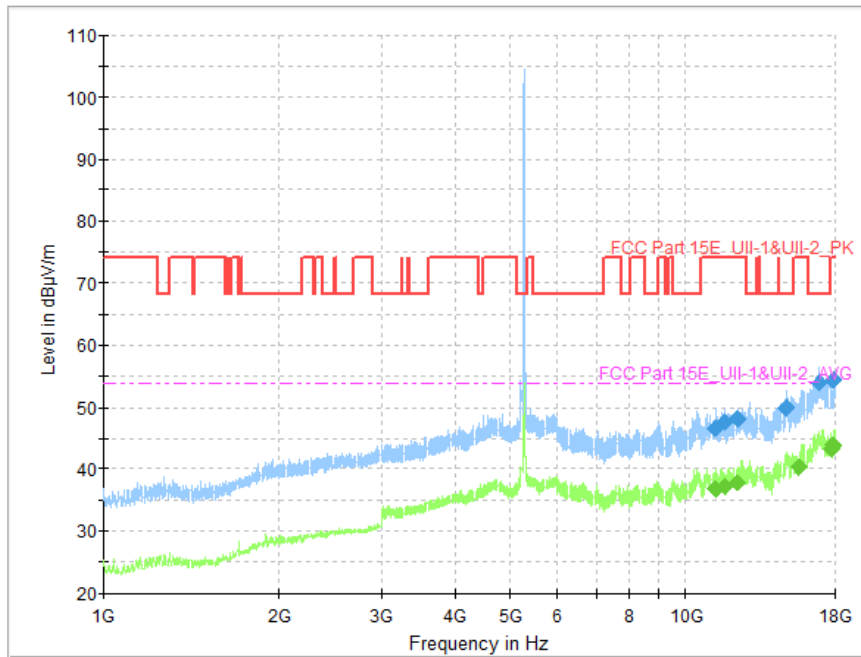


Fig. 81 Transmitter Spurious Emission (802.11a, CH52 5260MHz, 1 GHz-18 GHz)

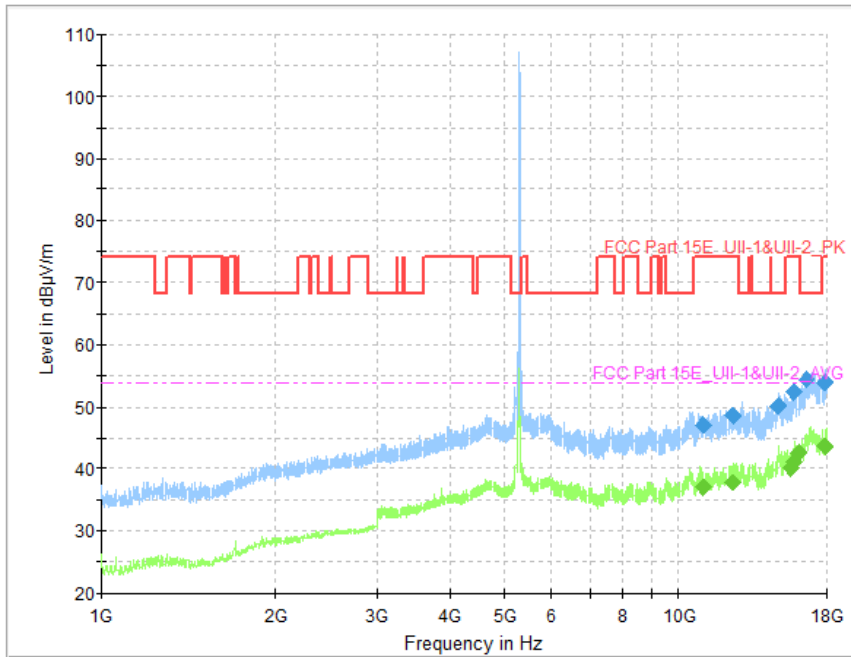


Fig. 82 Transmitter Spurious Emission (802.11a, CH56 5280MHz, 1 GHz-18 GHz)

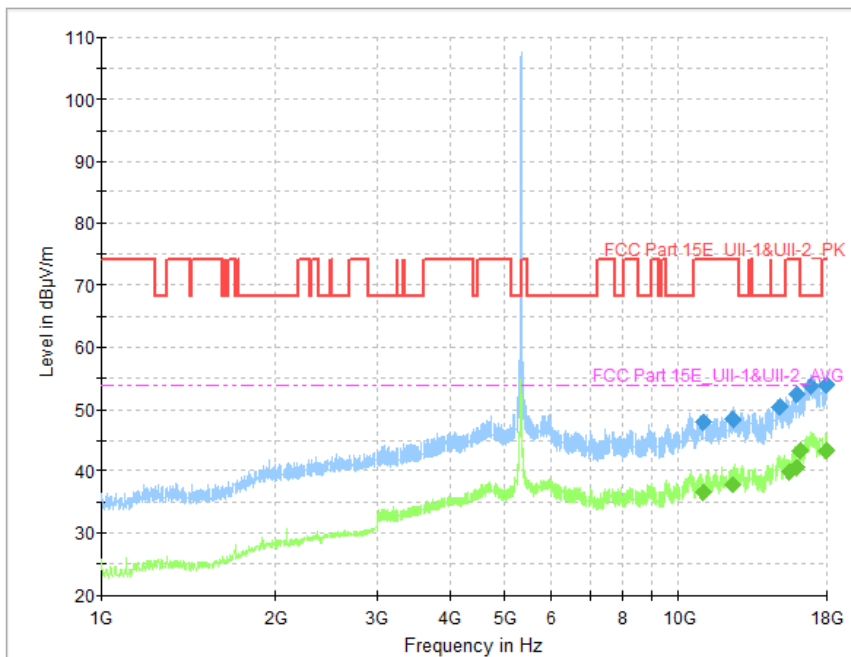


Fig. 83 Transmitter Spurious Emission (802.11a, CH64 5320MHz, 1 GHz-18 GHz)

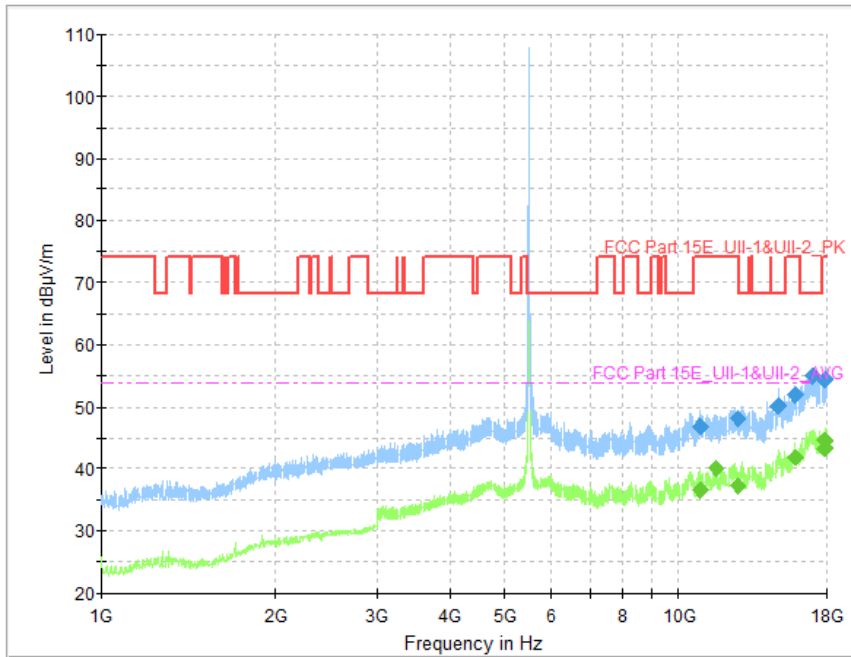


Fig. 84 Transmitter Spurious Emission (802.11a, CH100 5500MHz, 1 GHz-18 GHz)

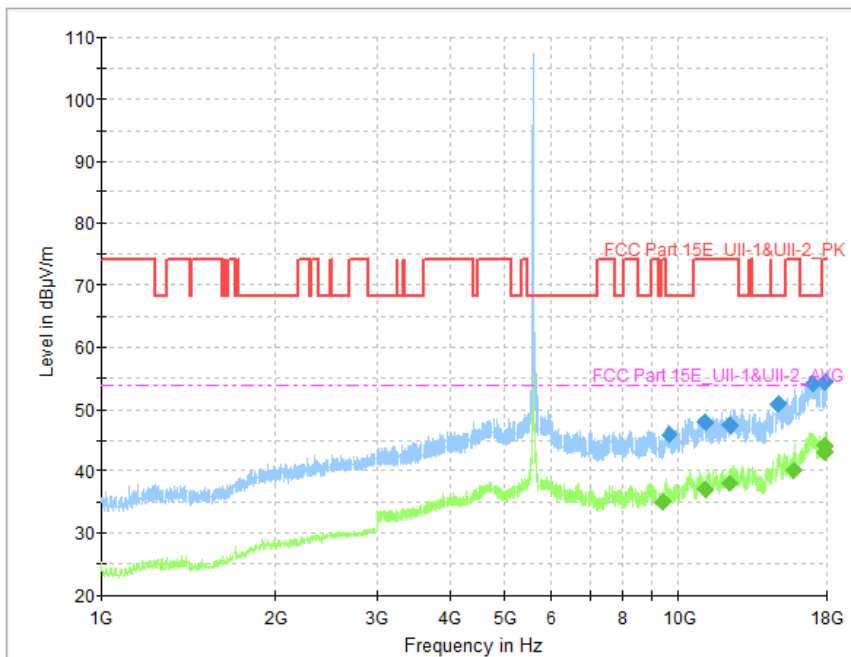


Fig. 85 Transmitter Spurious Emission (802.11a, CH120 5600MHz, 1 GHz-18 GHz)

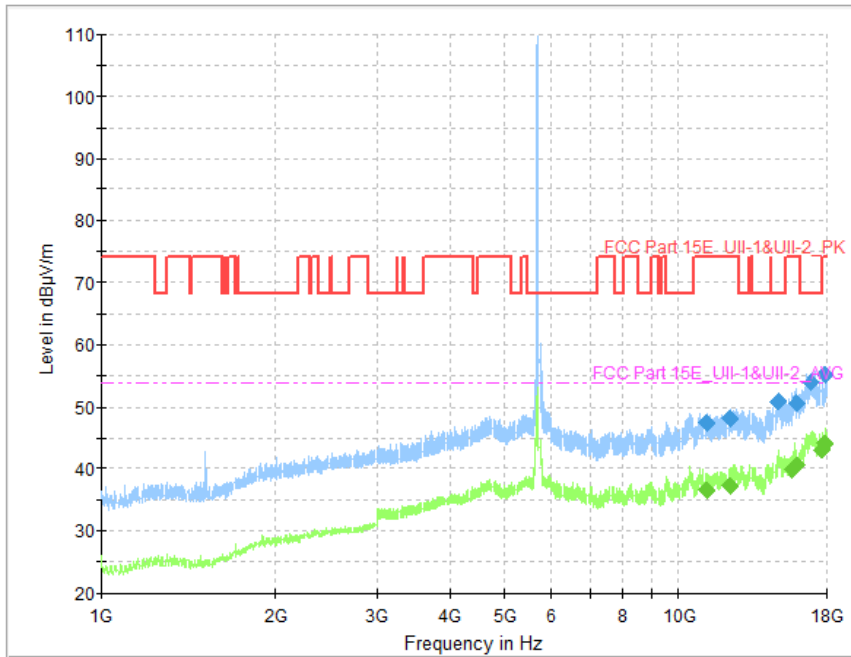


Fig. 86 Transmitter Spurious Emission (802.11a, CH140 5700MHz, 1 GHz-18 GHz)

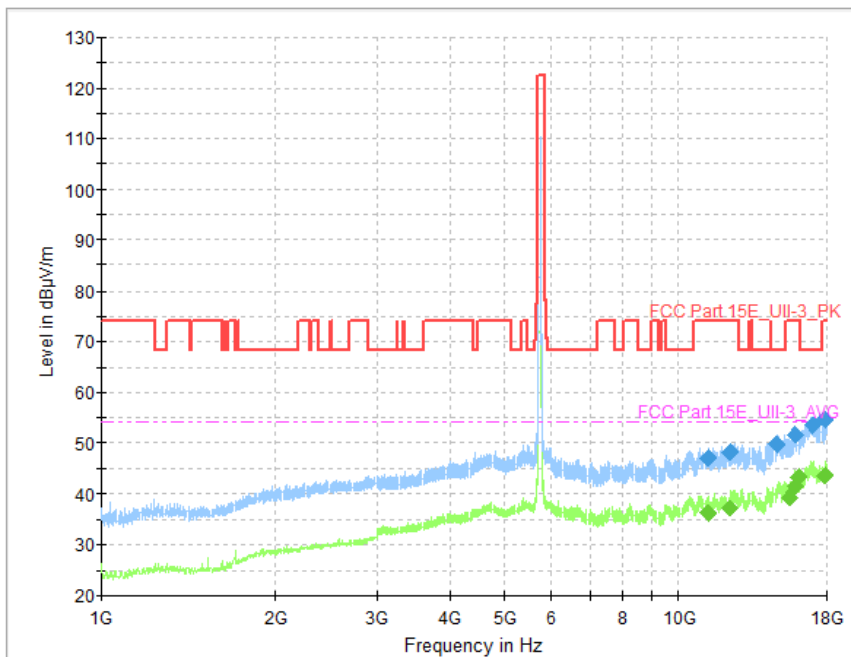


Fig. 87 Transmitter Spurious Emission (802.11a, CH149 5745MHz, 1 GHz-18 GHz)

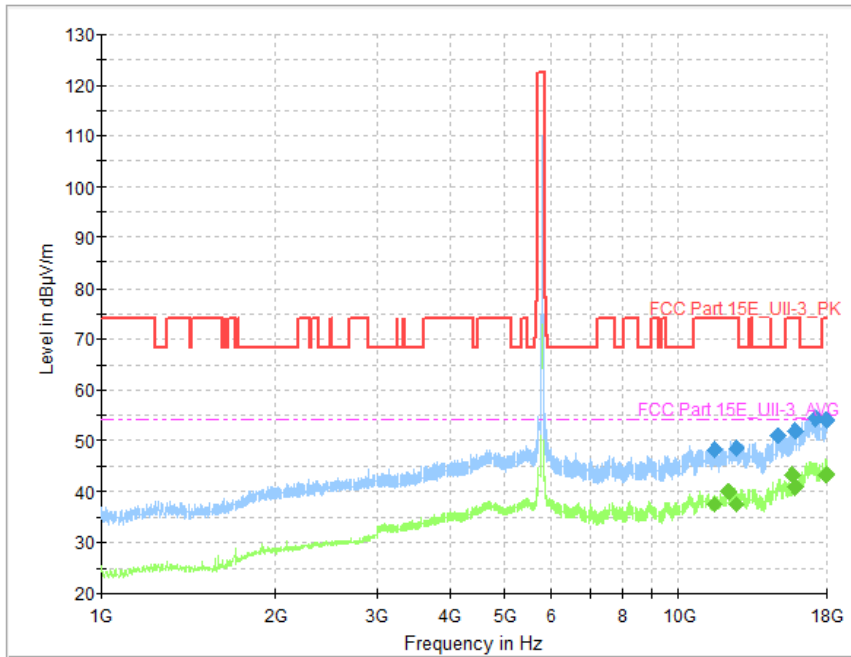


Fig. 88 Transmitter Spurious Emission (802.11a, CH157 5785MHz, 1 GHz-18 GHz)

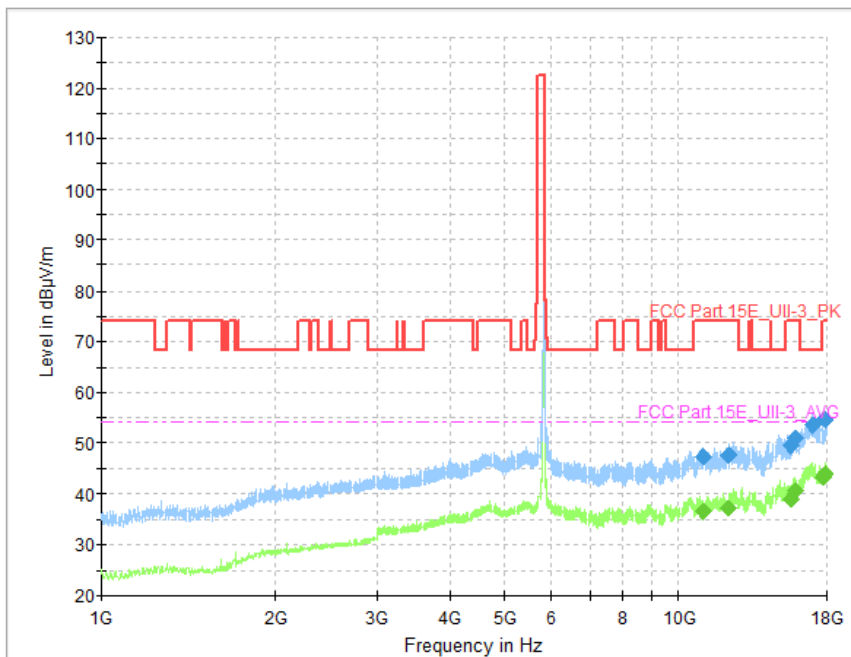


Fig. 89 Transmitter Spurious Emission (802.11a, CH165 5825MHz, 1 GHz-18 GHz)

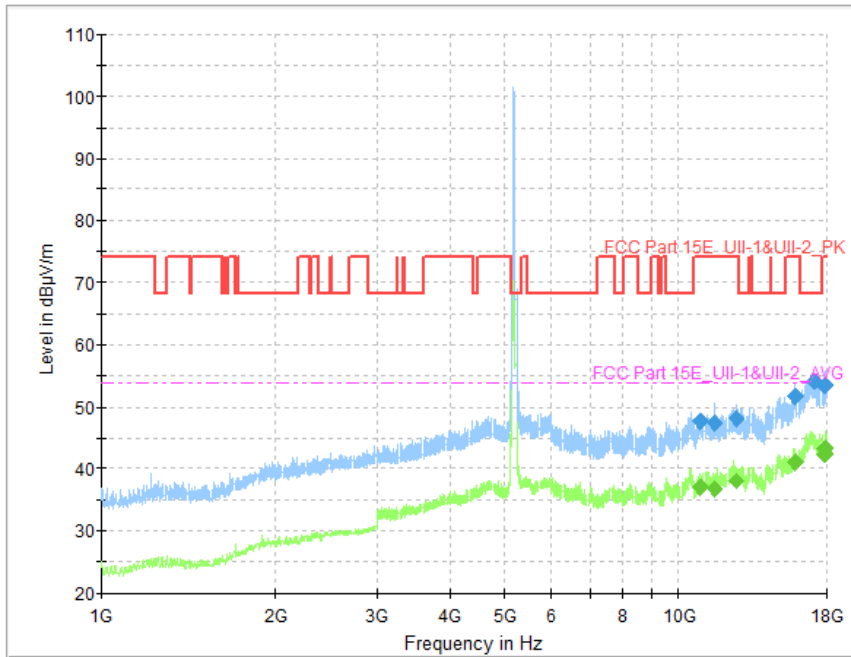


Fig. 90 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz, 1 GHz-18 GHz)

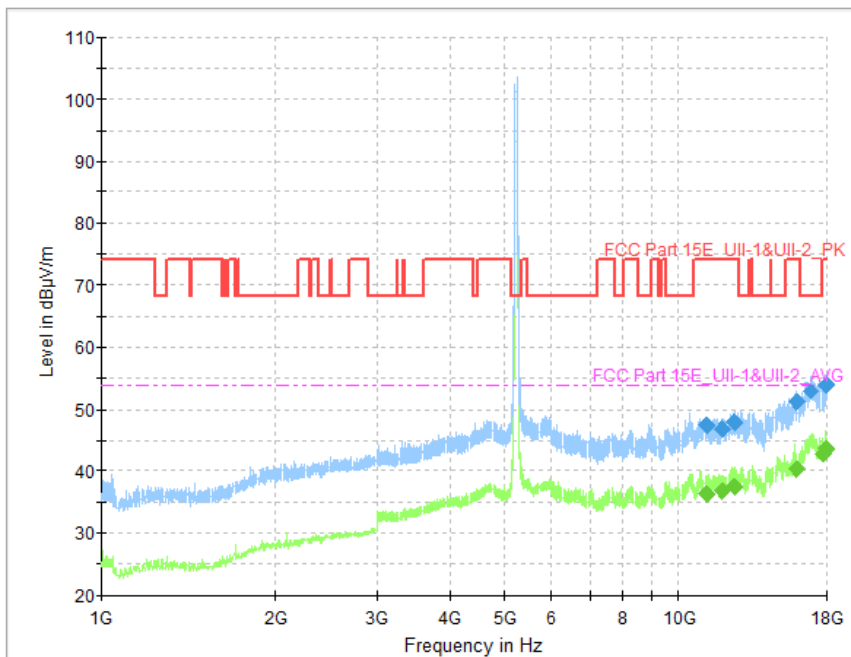


Fig. 91 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz, 1 GHz-18 GHz)

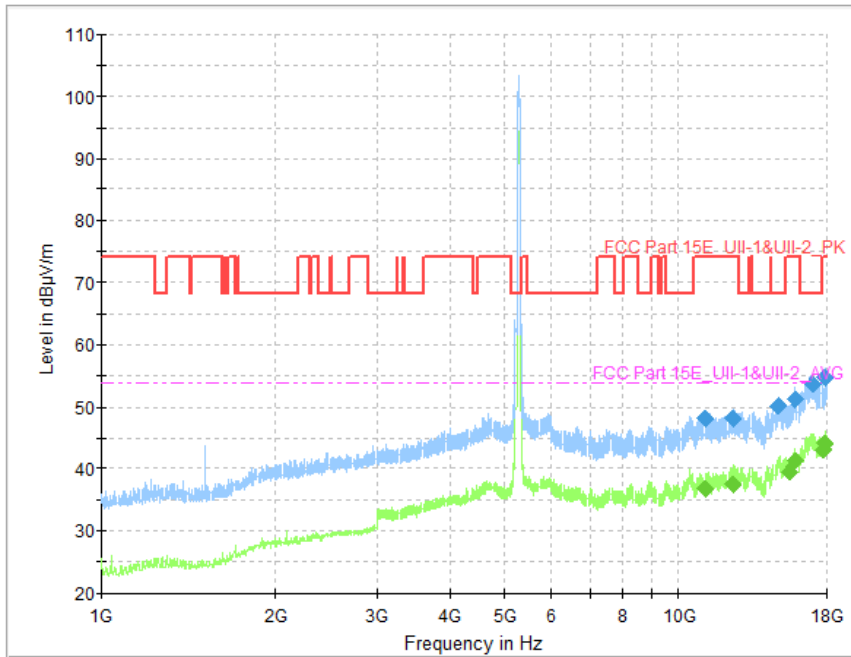


Fig. 92 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz, 1 GHz-18 GHz)

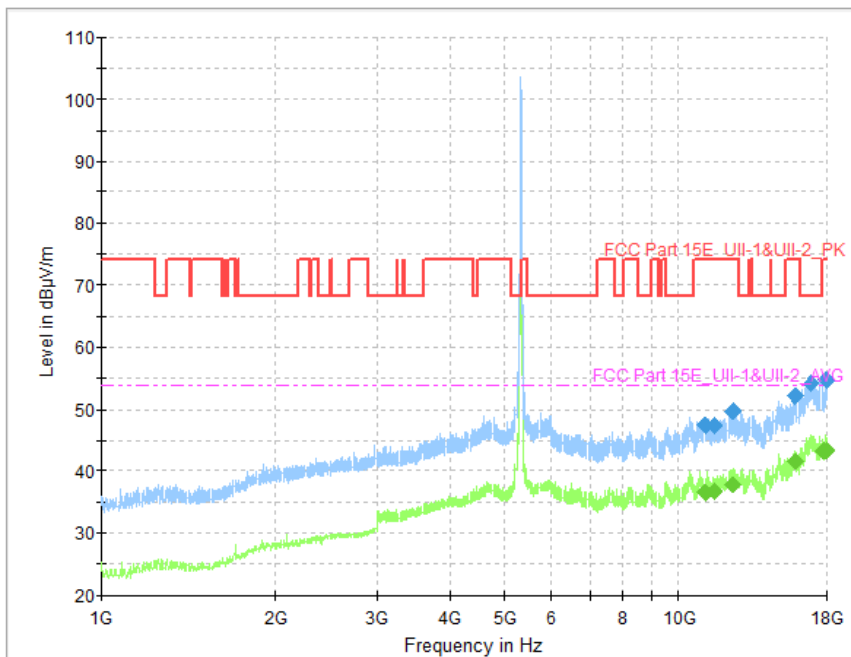


Fig. 93 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz, 1 GHz-18 GHz)

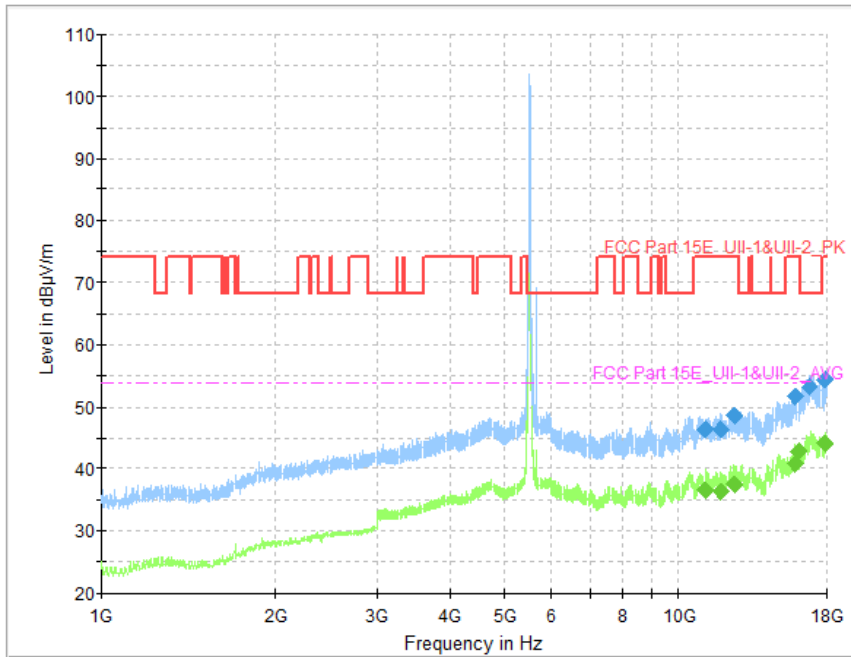


Fig. 94 Transmitter Spurious Emission (802.11n-HT40, CH102 5510MHz, 1 GHz-18 GHz)

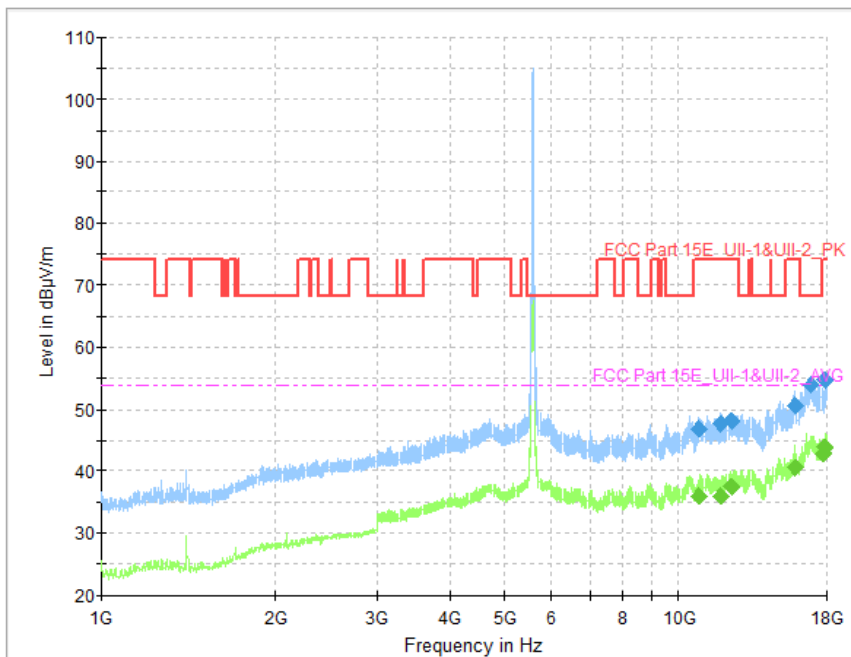


Fig. 95 Transmitter Spurious Emission (802.11n-HT40, CH118 5580MHz, 1 GHz-18 GHz)

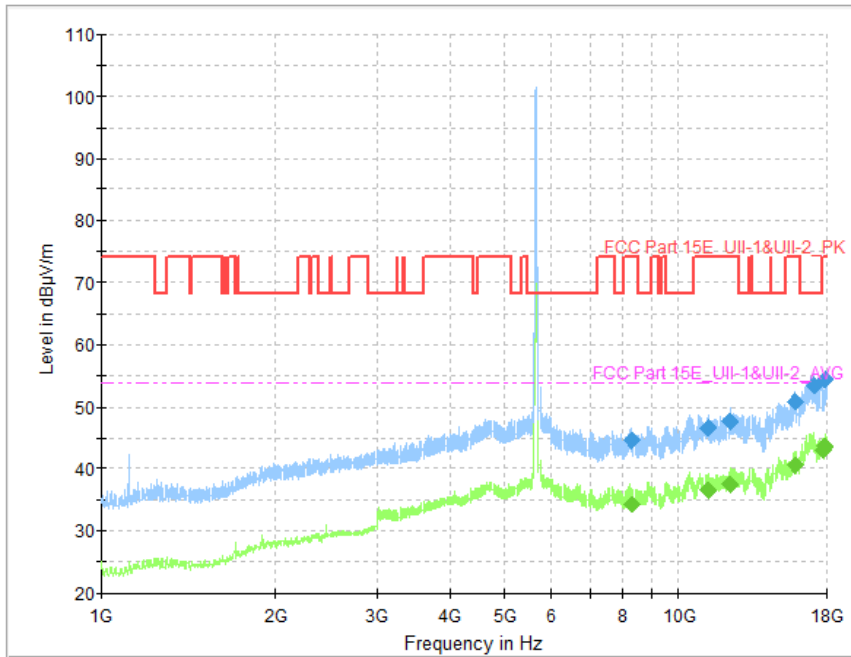


Fig. 96 Transmitter Spurious Emission (802.11n-HT40, CH134 5670MHz, 1 GHz-18 GHz)

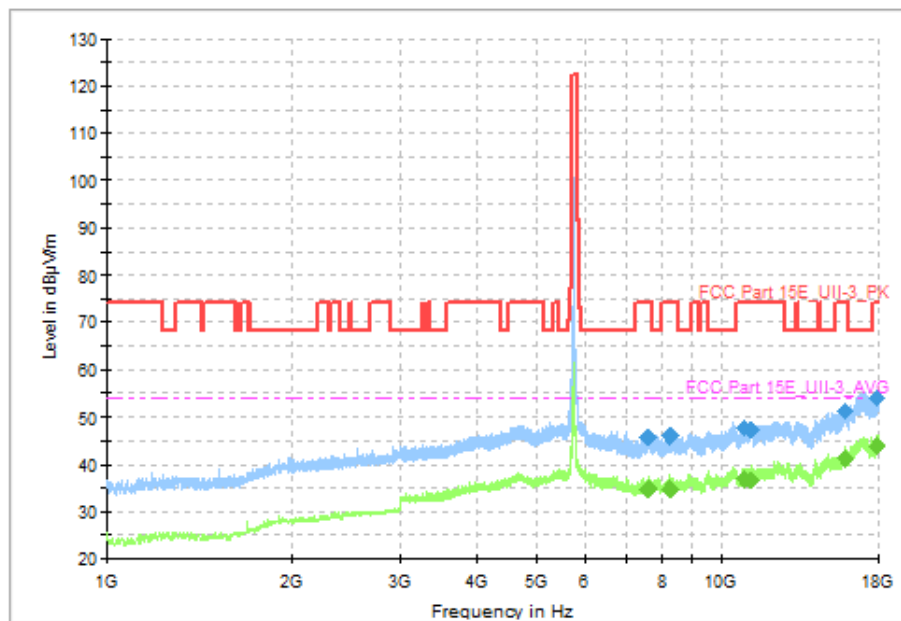


Fig. 97 Transmitter Spurious Emission (802.11n-HT40, CH151 5755MHz, 1 GHz-18 GHz)

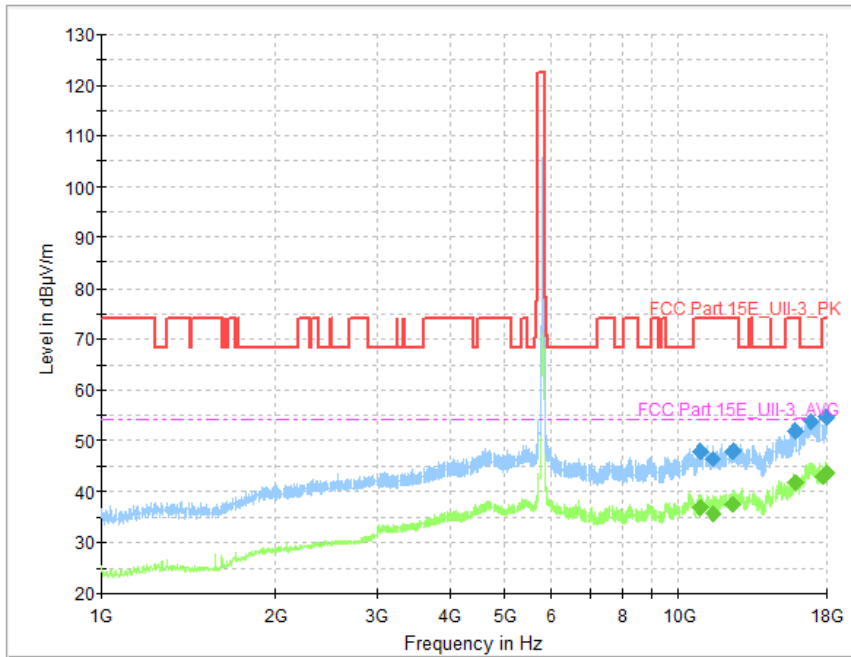


Fig. 98 Transmitter Spurious Emission (802.11n-HT40, CH159 5795MHz, 1 GHz-18 GHz)

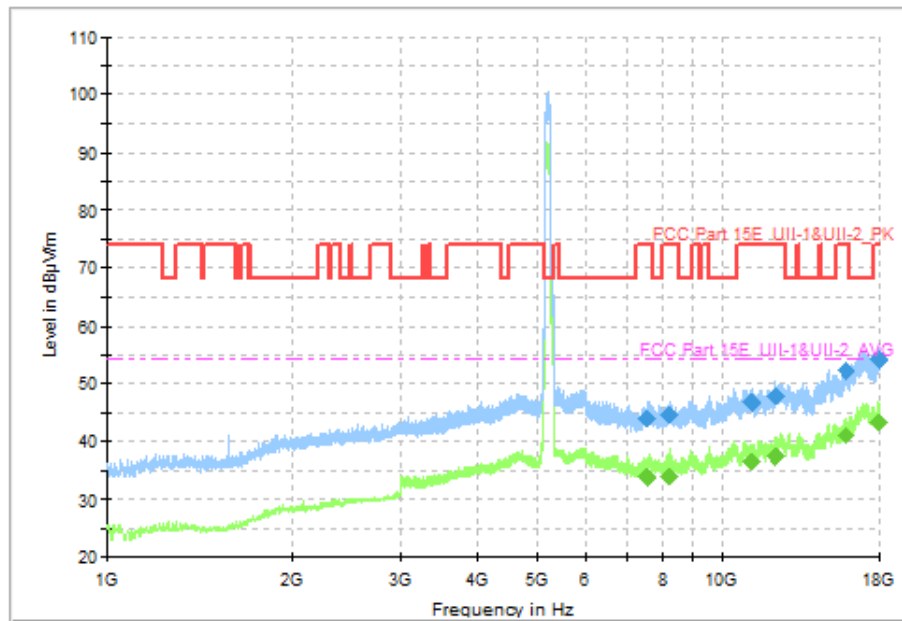


Fig. 99 Transmitter Spurious Emission (802.11ac-VHT80, CH42 5210MHz, 1 GHz-18 GHz)

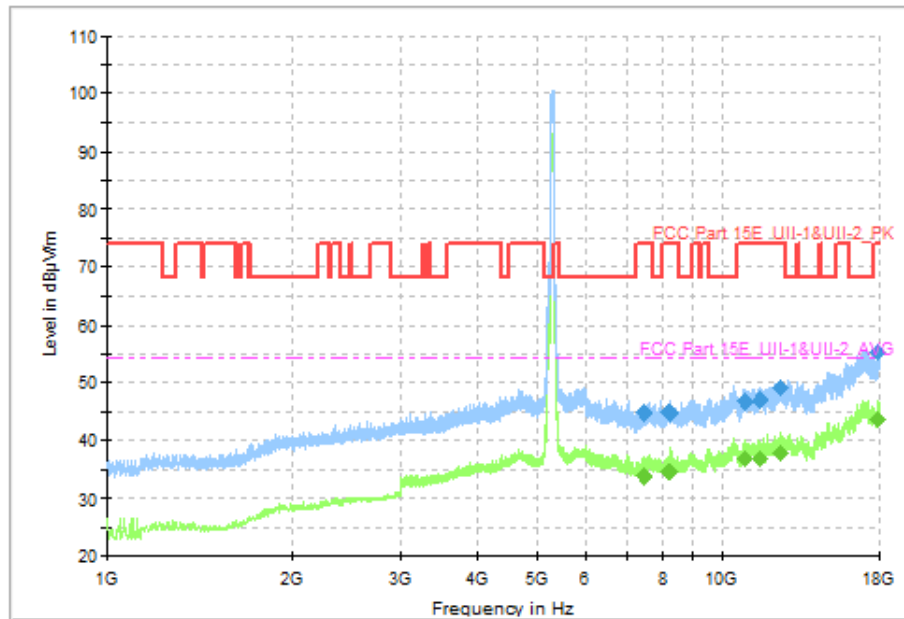


Fig. 100 Transmitter Spurious Emission (802.11ac-VHT80, CH58 5290MHz, 1 GHz-18 GHz)

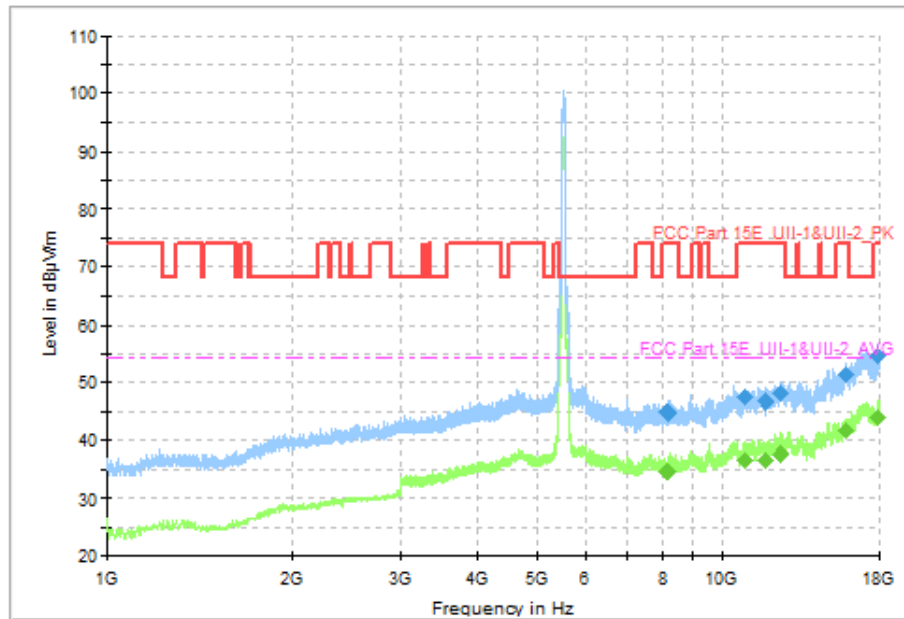


Fig. 101 Transmitter Spurious Emission (802.11ac-VHT80, CH106 5530MHz, 1 GHz-18 GHz)

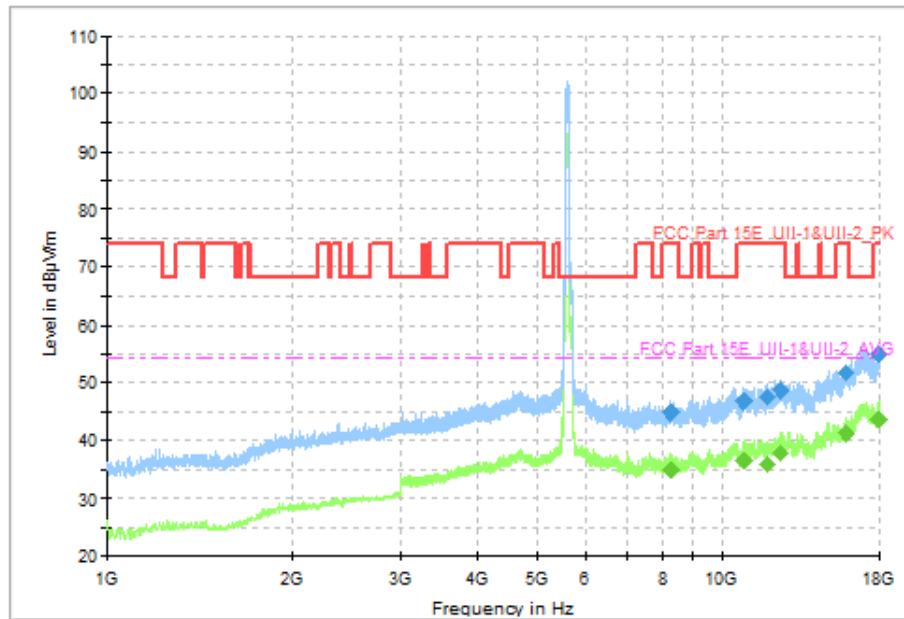


Fig. 102 Transmitter Spurious Emission (802.11ac-VHT80, CH122 5610MHz, 1 GHz-18 GHz)

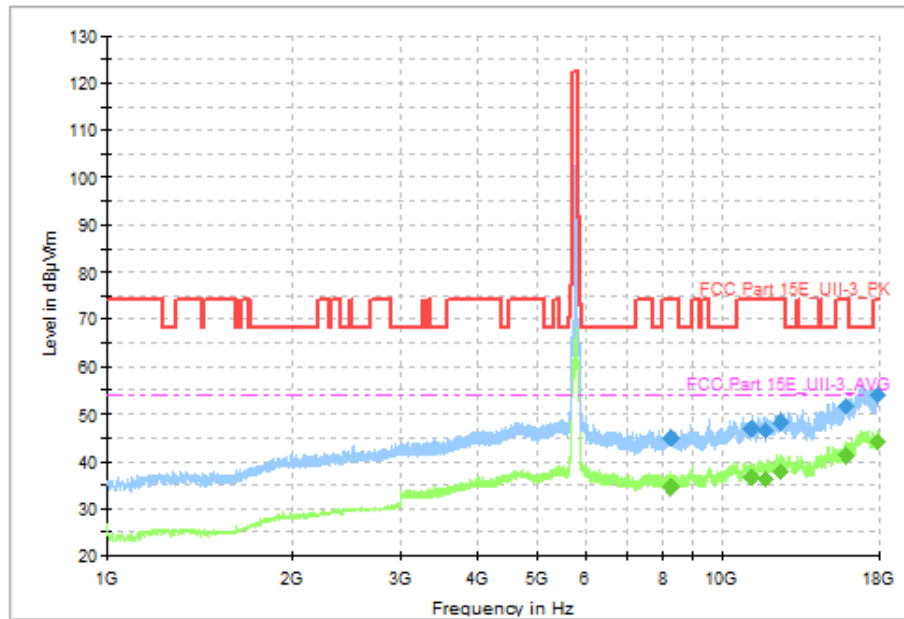


Fig. 103 Transmitter Spurious Emission (802.11ac-VHT80, CH155 5775MHz, 1 GHz-18 GHz)

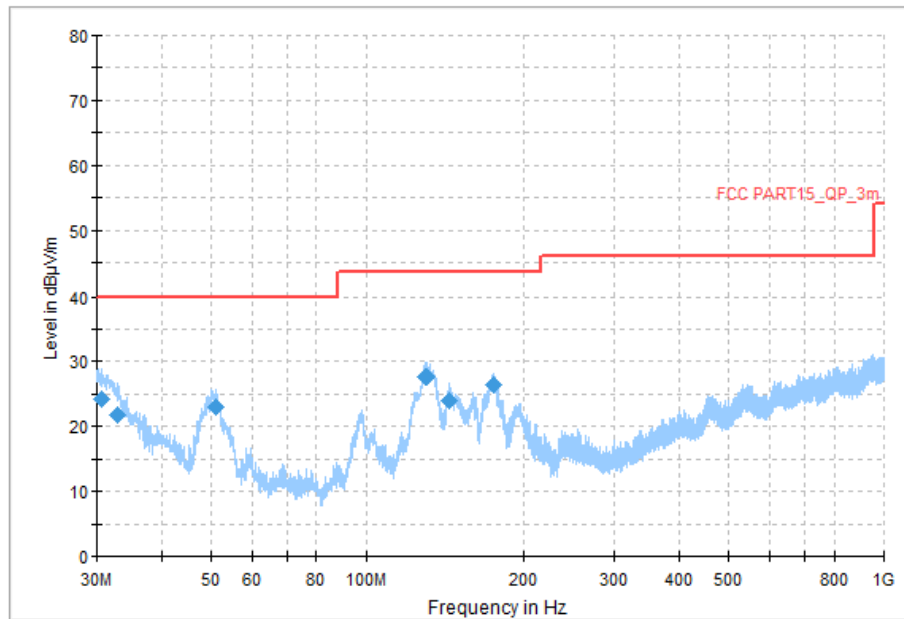


Fig. 104 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

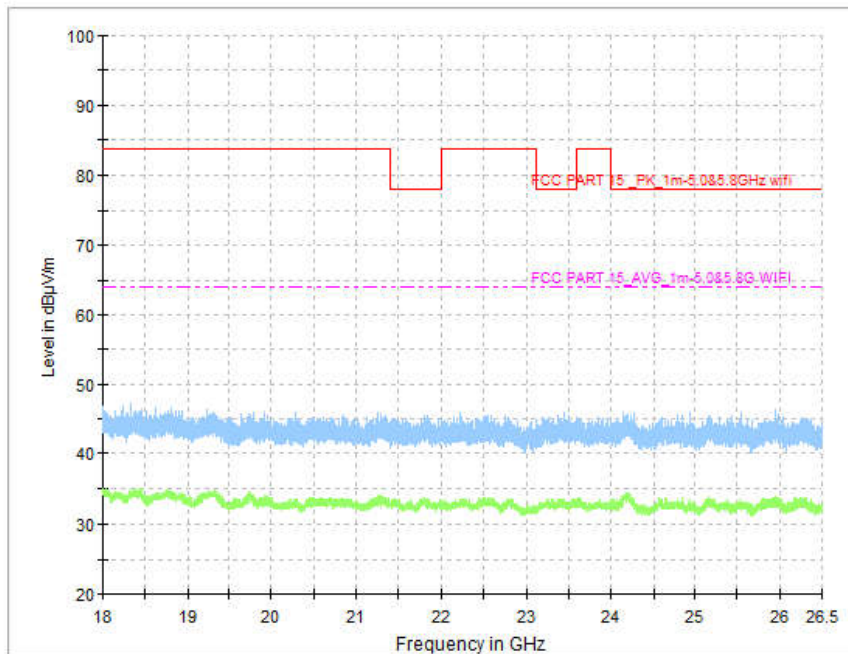


Fig. 105 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

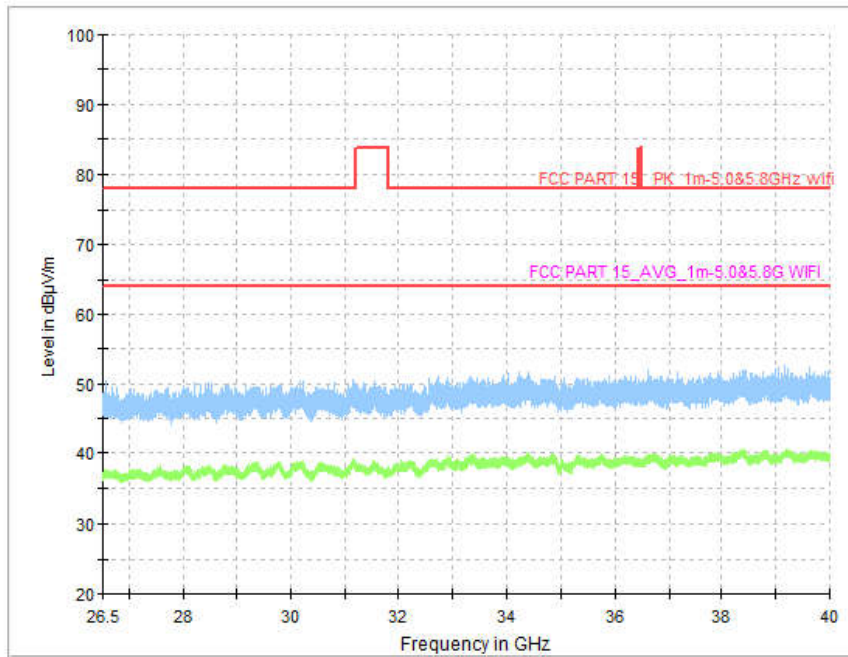


Fig. 106 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

A.10. Radiated Spurious Emissions < 30MHz

Measurement Limit (15.209, 9 kHz-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 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.107	P

See below for test graphs.

Conclusion: PASS

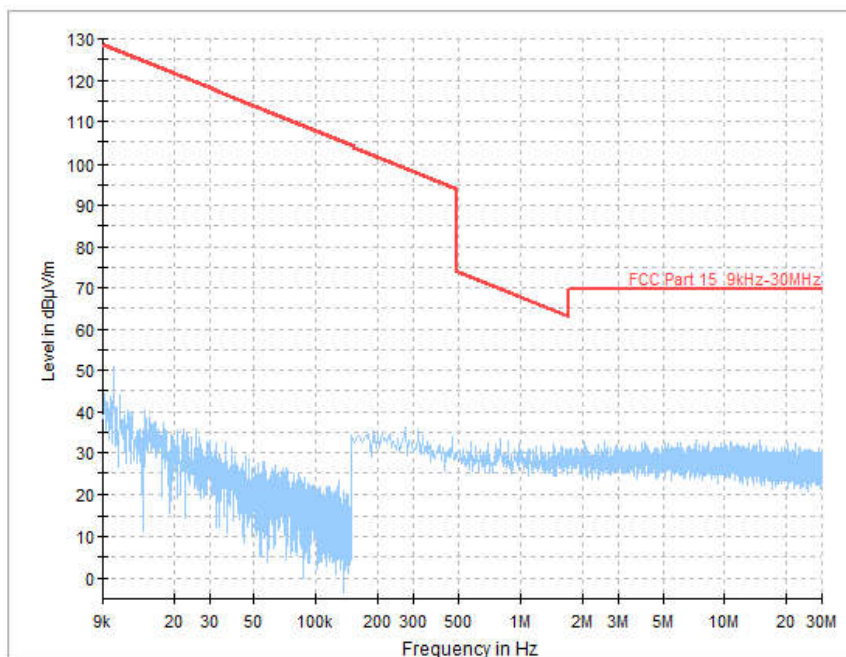


Fig. 107 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz)

**A.11. AC Power Line Conducted Emission****Test Condition:**

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:**RLAN- A2, A3, AE4**

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.108	Fig.109	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

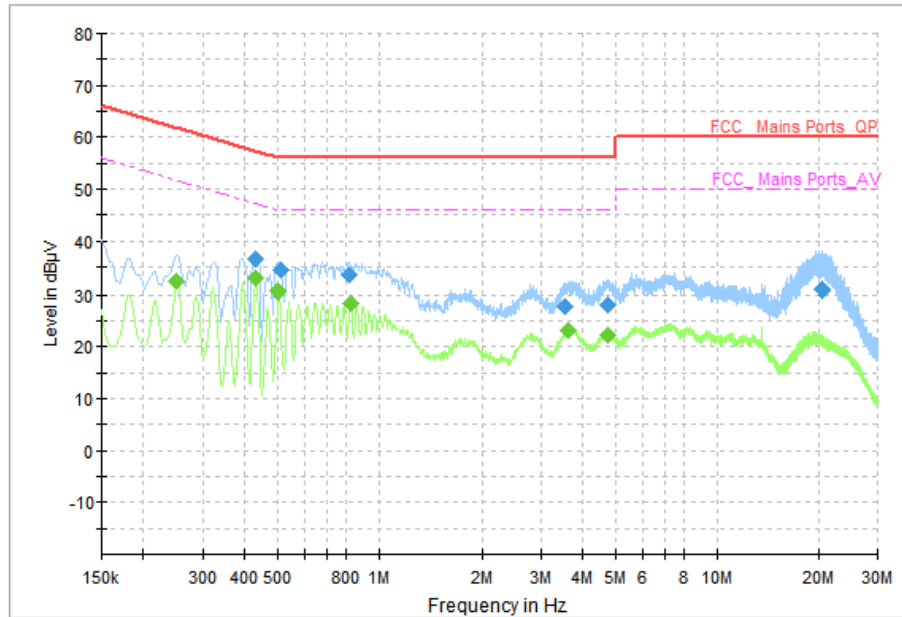


Fig. 108 AC Power line Conducted Emission (Traffic)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.430000	36.43	57.25	20.83	L1	ON	10
0.510000	34.31	56.00	21.69	L1	ON	10
0.814000	33.40	56.00	22.60	L1	ON	10
3.542000	27.73	56.00	28.27	L1	ON	10
4.758000	28.08	56.00	27.92	L1	ON	10
20.534000	30.82	60.00	29.18	N	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.250000	32.17	51.76	19.59	L1	ON	10
0.430000	32.78	47.25	14.47	L1	ON	10
0.502000	30.31	46.00	15.69	L1	ON	10
0.826000	28.35	46.00	17.65	L1	ON	10
3.602000	23.07	46.00	22.93	L1	ON	10
4.750000	22.14	46.00	23.86	L1	ON	10

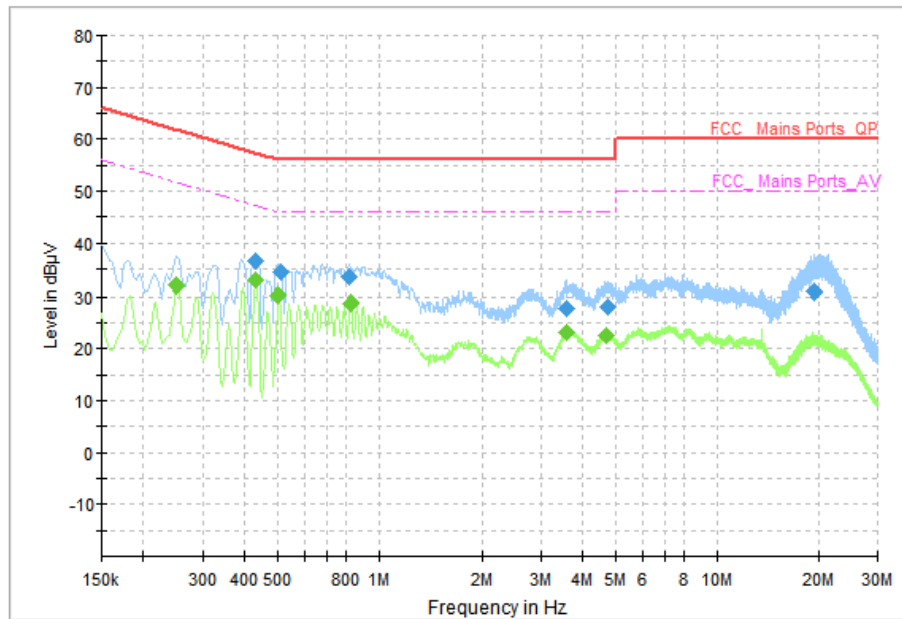


Fig. 109 AC Power line Conducted Emission (Idle)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.430000	36.46	57.25	20.80	L1	ON	10
0.510000	34.32	56.00	21.68	L1	ON	10
0.814000	33.46	56.00	22.54	L1	ON	10
3.554000	27.74	56.00	28.26	L1	ON	10
4.718000	28.10	56.00	27.90	L1	ON	10
19.382000	30.66	60.00	29.34	N	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.250000	32.11	51.76	19.64	L1	ON	10
0.430000	32.80	47.25	14.45	L1	ON	10
0.502000	30.29	46.00	15.71	L1	ON	10
0.822000	28.58	46.00	17.42	L1	ON	10
3.582000	23.01	46.00	22.99	L1	ON	10
4.670000	22.58	46.00	23.42	L1	ON	10



No. I21N02292-RLAN

A.12. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500mW).

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