



TEST REPORT

No. I21N00742-RLAN

TCL Communication Ltd.

Tablet PC

Model Name: 9081X

with

Hardware Version: P10

Software Version: 6A62

FCC ID: 2ACCJB153

Issued Date: 2021-04-06

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

Description	Tablet PC
Model Name	9081X
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part15-2019; ANSI C63.10-2013; KDB789033-V02r01

1.3. Test Result

Pass

Please refer to 5.2 Test Results.

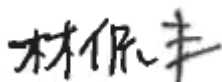
1.4. Testing Location

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: 2021-03-15
Testing End Date: 2021-04-02

1.6. Signature



Lin Kanfeng
(Prepared this test report)



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(Reviewed this test report)



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(Approved this test report)



2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
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Telephone: 0086-755-36611722
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	Tablet PC
Model Name	9081X
RLAN Frequency Range	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -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	1.7 dBi
Power Supply	3.9V DC by Battery
FCC ID	2ACCJB153
Condition of EUT as received	No abnormality in appearance

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT03aa	6409ACCE7B78296	PIO	6A62	2021-03-09
UT01aa	6409ACCE7B78297	PIO	6A62	2021-03-09

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

*UT03aa is used for Conduction test; UT01aa is used for Radiation test and AC Power line Conducted Emission test.

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	Battery	CAC7800000C1
AE2	Battery	CAC7800002CA
AE3	Charger	CBA0064BGTC1
AE4	Charger	CBA0064BGTC5

AE1

Model	TLp078A1
Manufacturer	BYD
Capacity	7800mAh
Nominal Voltage	3.85v

AE2

Model	TLp078AA
Manufacturer	TMB
Capacity	7800mAh
Nominal Voltage	3.85v

AE3

Model	QC13EU
-------	--------



No. I21N00742-RLAN

Manufacturer	BYD
AE4	
Model	QC13UK
Manufacturer	PUAN

*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 Tablet PC with integrated antenna and battery.

It consists of normal options: Lithium Battery and Charger.

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

Samples undergoing test were selected by the client.



4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47,Part 15,Subpart C FCC CFR 47,Part 15,Subpart E	2019
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

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
1	Maximum Output Power	15.407	P
2	Power Spectral Density	15.407	P
3	Occupied 26dB Bandwidth	15.403	P
4	Occupied 6dB Bandwidth	15.407	P
5	99% Occupied Bandwidth	15.403	P
6	Band edge compliance	15.209	P
7	Transmitter Spurious Emissions	15.407, 15.205	P
8	AC Power line Conducted	15.107, 15.207	P
9	Frequency Stability	15.407	P
10	Transmit Power Control	15.407	NA

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

5.3. Statements

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

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2021-12-30	1 year
2	Power Sensor	U2021XA	MY55430013	Agilent	2022-01-13	1 year
3	Data Acquisition	U2531A	TW55443507	Agilent	/	/
4	Climate chamber	SU-242	93008165	ESPEC	2022-03-14	1 year
5	DC Power Supply	ZUP60-14	6MY-847Z13-0001	TDK-Lambda	2022-02-25	1 year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	LISN	ESH2-Z5	100196	R&S	2022-01-01	1 year
2	Test Receiver	ESCI	100701	R&S	2021-08-05	1 year
3	Loop Antenna	HLA6120	35779	TESEQ	2022-05-01	3 year
4	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2024-02-15	3 year
5	Horn Antenna	3117	00066585	ETS-Lindgren	2022-03-04	3 year
6	Test Receiver	ESR7	101675	R&S	2021-07-17	1 year
7	Spectrum Analyzer	FSP 40	100378	R&S	2021-12-11	1 year
8	Chamber	FACT5-2.0	4166	ETS-Lindgren	2021-05-12	3 year
9	Antenna	QSH-SL-1 8-26-S-20	17013	Q-par	2024-01-13	3 year
10	Antenna	QSH-SL-2 6-40-K-20	17014	Q-par	2024-01-09	3 year

Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	8.53.0
3	EMC32	Rohde & Schwarz	10.01.00

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

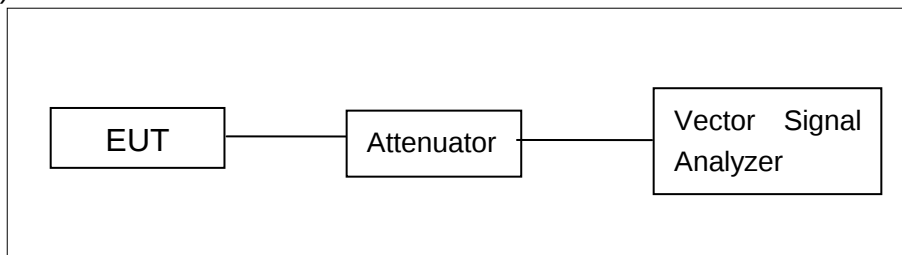
Test Name	Uncertainty ($k=2$)	
1. RF Output Power - Conducted	1.32dB	
2. Power Spectral Density - Conducted	2.32dB	
3. Occupied channel bandwidth - Conducted	66Hz	
4. Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f < 1\text{GHz}$	1.41dB
	$1\text{GHz} \leq f < 7\text{GHz}$	1.92dB
	$7\text{GHz} \leq f < 13\text{GHz}$	2.31dB
	$13\text{GHz} \leq f \leq 26\text{GHz}$	2.61dB
5. Transmitter Spurious Emission - Radiated	$9\text{kHz} \leq f < 30\text{MHz}$	1.70dB
	$30\text{MHz} \leq f < 1\text{GHz}$	4.90dB
	$1\text{GHz} \leq f < 18\text{GHz}$	4.60dB
	$18\text{GHz} \leq f \leq 40\text{GHz}$	4.10dB
6. AC Power line Conducted Emission	$150\text{kHz} \leq f \leq 30\text{MHz}$	3.00dB

ANNEX A: MEASUREMENT 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.

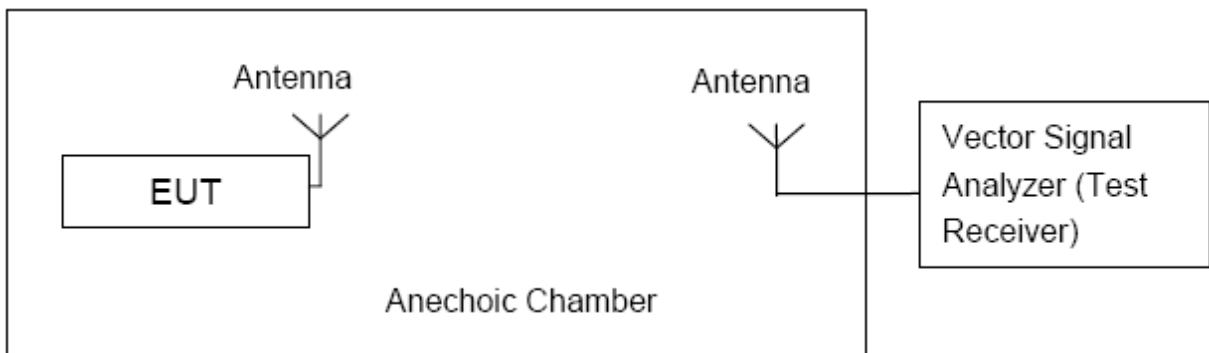


Radiated Emission Measurements

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	5150MHz~5250MHz	24
	5250MHz~5350MHz	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:

802.11a mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz(Ch36)	9.67	9.63	9.58	9.56	9.51	9.50	8.55	8.56
	5200MHz(Ch40)	9.60	/	/	/	/	/	/	/
	5240MHz(Ch48)	9.39	/	/	/	/	/	/	/
	5260MHz(Ch52)	9.48	/	/	/	/	/	/	/
	5280MHz(Ch56)	9.43	/	/	/	/	/	/	/
	5320MHz(Ch64)	9.54	/	/	/	/	/	/	/
	5745MHz(Ch149)	9.94	/	/	/	/	/	/	/
	5785MHz(Ch157)	9.97	/	/	/	/	/	/	/
	5825MHz(Ch165)	9.94	/	/	/	/	/	/	/

802.11n-HT20 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz(Ch36)	9.56	9.54	9.49	9.43	9.39	9.36	8.42	8.40
	5200MHz(Ch40)	9.50	/	/	/	/	/	/	/
	5240MHz(Ch48)	9.35	/	/	/	/	/	/	/
	5260MHz(Ch52)	9.41	/	/	/	/	/	/	/
	5280MHz(Ch56)	9.41	/	/	/	/	/	/	/
	5320MHz(Ch64)	9.51	/	/	/	/	/	/	/
	5745MHz(Ch149)	9.91	/	/	/	/	/	/	/
	5785MHz(Ch157)	9.95	/	/	/	/	/	/	/
	5825MHz(Ch165)	9.89	/	/	/	/	/	/	/

802.11ac-VHT20 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (VHT20)	5180MHz(Ch36)	9.54	9.50	9.47	9.46	9.43	9.38	8.45	8.44
	5200MHz(Ch40)	9.53	/	/	/	/	/	/	/
	5240MHz(Ch48)	9.26	/	/	/	/	/	/	/
	5260MHz(Ch52)	9.37	/	/	/	/	/	/	/
	5280MHz(Ch56)	9.26	/	/	/	/	/	/	/
	5320MHz(Ch64)	9.45	/	/	/	/	/	/	/
	5745MHz(Ch149)	9.86	/	/	/	/	/	/	/
	5785MHz(Ch157)	9.88	/	/	/	/	/	/	/
	5825MHz(Ch165)	9.87	/	/	/	/	/	/	/

802.11n-HT40 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz(Ch38)	8.42	8.37	8.35	8.30	8.28	8.27	7.34	7.31
	5230MHz(Ch46)	8.18	/	/	/	/	/	/	/
	5270MHz(Ch54)	8.25	/	/	/	/	/	/	/
	5310MHz(Ch62)	8.32	/	/	/	/	/	/	/
	5755MHz(Ch151)	8.66	/	/	/	/	/	/	/
	5795MHz(Ch159)	8.70	/	/	/	/	/	/	/

802.11ac-VHT40 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (VHT40)	5190MHz(Ch38)	8.33	8.31	8.26	8.25	8.21	8.18	7.26	7.28
	5230MHz(Ch46)	8.12	/	/	/	/	/	/	/
	5270MHz(Ch54)	8.18	/	/	/	/	/	/	/
	5310MHz(Ch62)	8.26	/	/	/	/	/	/	/
	5755MHz(Ch151)	8.55	/	/	/	/	/	/	/
	5795MHz(Ch159)	8.65	/	/	/	/	/	/	/

802.11ac-VHT80 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (VHT80)	5210MHz(Ch42)	8.30	8.25	8.24	8.20	8.18	8.13	7.22	7.17
	5290MHz(Ch58)	8.25	/	/	/	/	/	/	/
	5775MHz(Ch155)	8.73	/	/	/	/	/	/	/



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 modes are selected as the worst case. The following cases and test graphs are performed with this condition. The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Frequency (MHz)	Limit
FCC CRF Part 15.407	5150MHz~5250MHz	11dBm/MHz
	5250MHz~5350MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500KHz

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

Measurement Results:

5.2GHz Band (UNII-1)

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180MHz(Ch36)	-2.27	P
	5200MHz(Ch40)	-2.50	P
	5240MHz(Ch48)	-2.76	P
802.11n HT40	5190MHz(Ch38)	-6.63	P
	5230MHz(Ch46)	-6.97	P
802.11ac VHT80	5210MHz(Ch42)	-10.30	P

5.3GHz Band (UNII-2A)

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5260MHz(Ch52)	-2.80	P
	5280MHz(Ch56)	-3.20	P
	5320MHz(Ch64)	-2.79	P
802.11n HT40	5270MHz(Ch54)	-7.32	P
	5310MHz(Ch62)	-7.21	P
802.11ac VHT80	5290MHz(Ch58)	-10.57	P

5.8GHz Band (UNII-3)

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	5745MHz(CH149)	-5.18	P
	5785MHz(CH157)	-4.95	P
	5825MHz(CH165)	-4.77	P
802.11n HT40	5755MHz(CH151)	-9.30	P
	5795MHz(CH159)	-9.03	P
802.11ac VHT80	5775MHz(CH155)	-13.03	P

Conclusion: PASS

A.4. Occupied 26dB Bandwidth

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Channel	Occupied 26dB Bandwidth (MHz)		Conclusion
802.11a	5180MHz(Ch36)	Fig.1	20.55	P
	5200MHz(Ch40)	Fig.2	20.55	P
	5240MHz(Ch48)	Fig.3	20.50	P
	5260MHz(Ch52)	Fig.4	20.55	P
	5280MHz(Ch56)	Fig.5	20.55	P
	5320MHz(Ch64)	Fig.6	20.60	P
802.11n HT40	5190MHz(Ch38)	Fig.7	41.12	P
	5230MHz(Ch46)	Fig.8	40.64	P
	5270MHz(Ch54)	Fig.9	40.88	P
	5310MHz(Ch62)	Fig.10	40.96	P
802.11ac VHT80	5210MHz(Ch42)	Fig.11	80.96	P
	5290MHz(Ch58)	Fig.12	80.96	P

Conclusion: PASS

Test graphs as below:

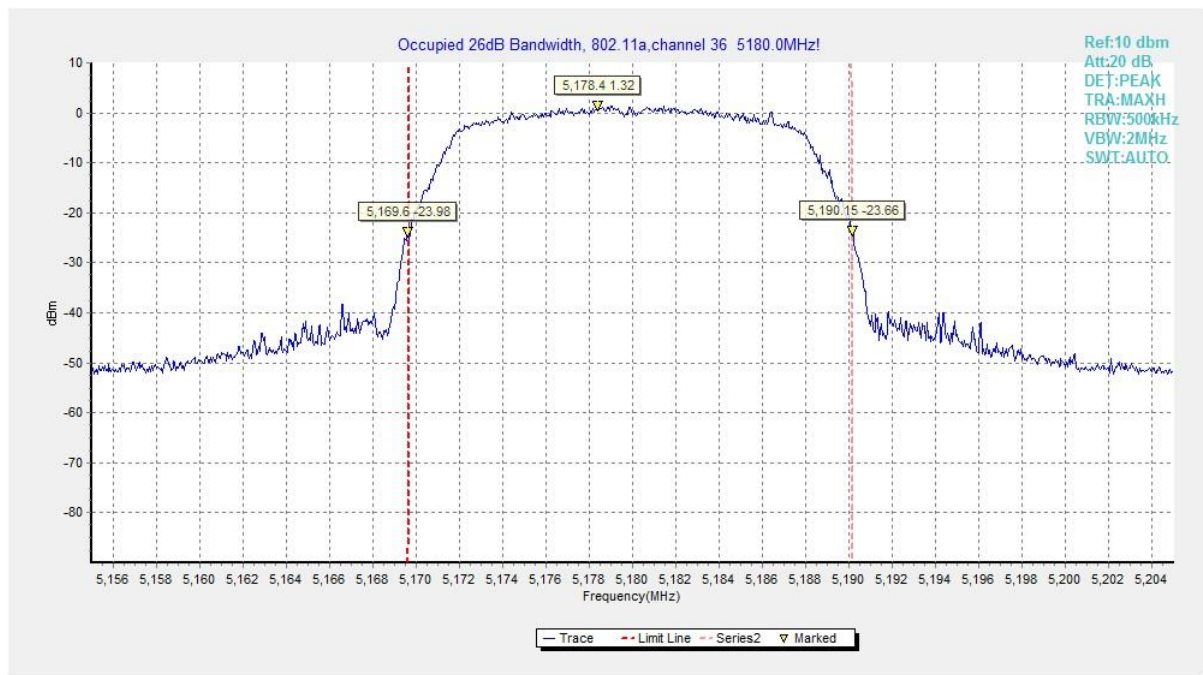


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

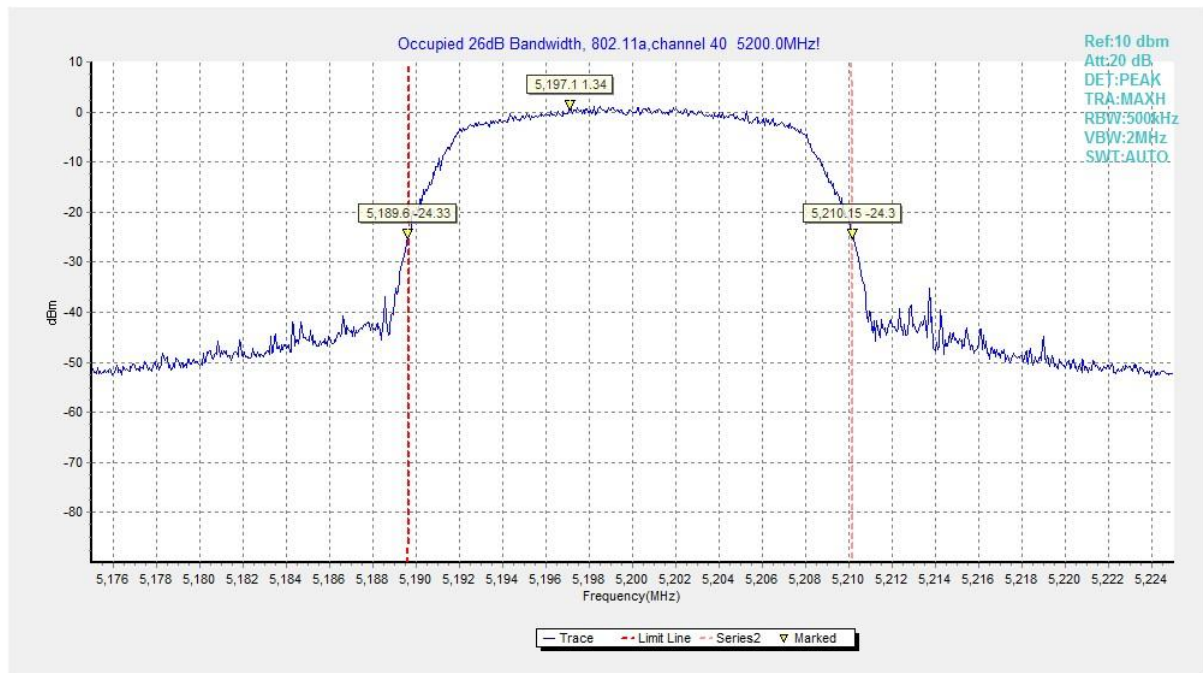


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

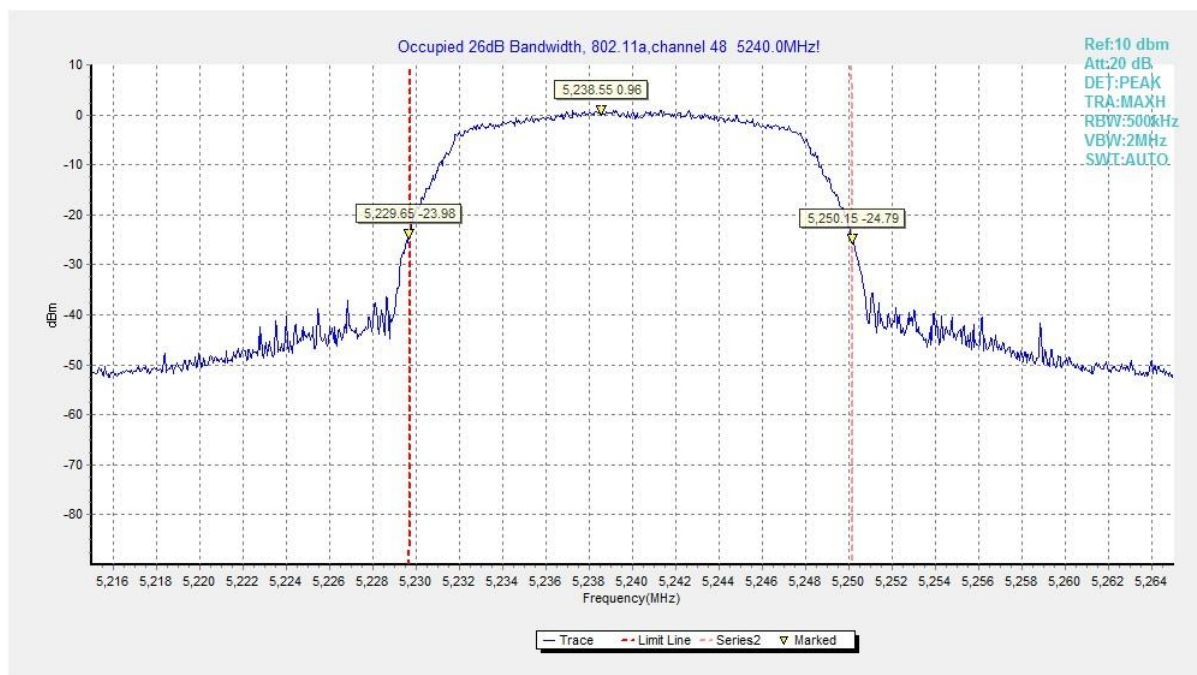


Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

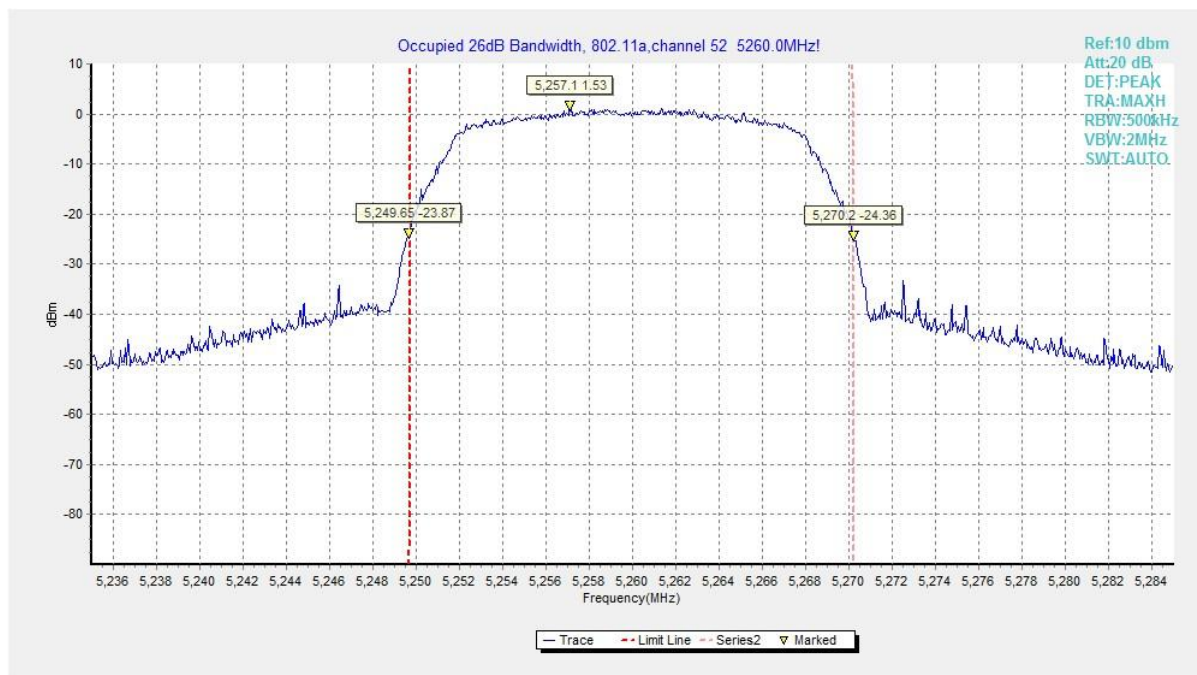


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

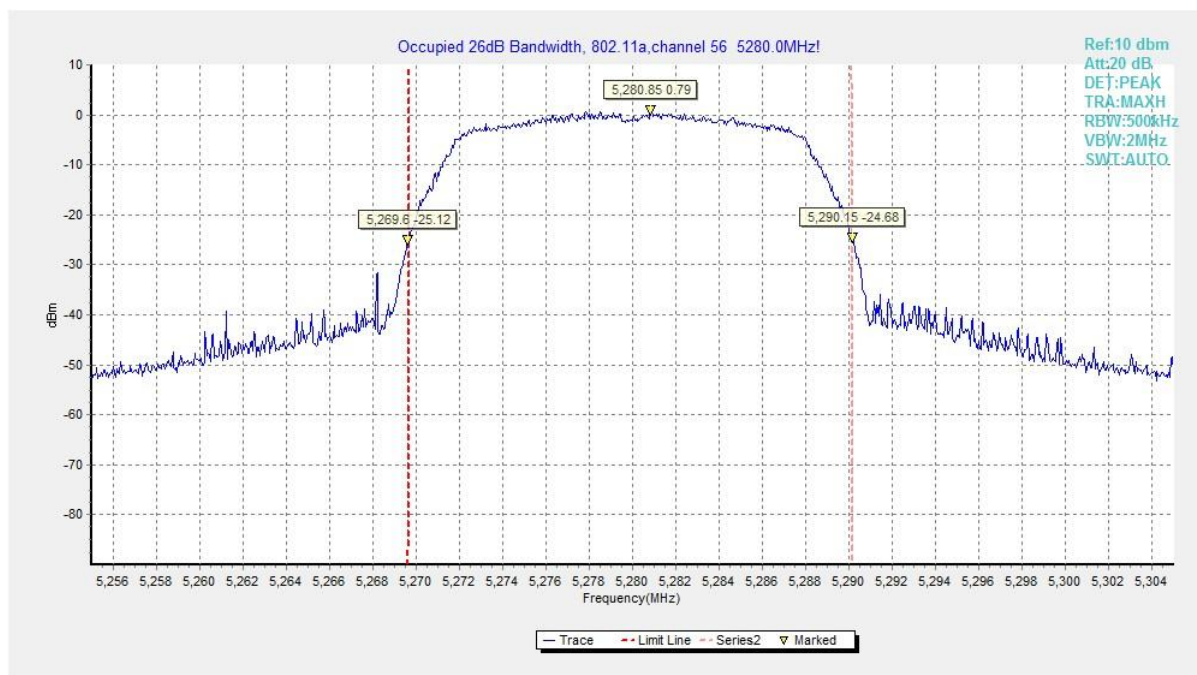


Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

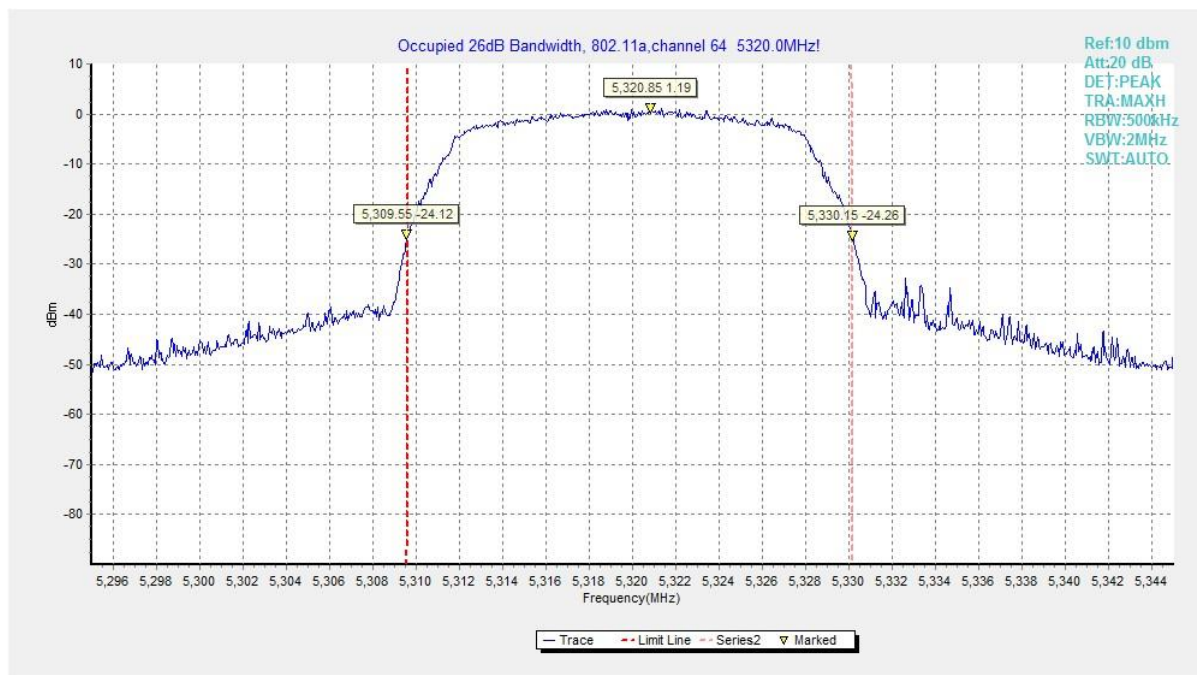


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

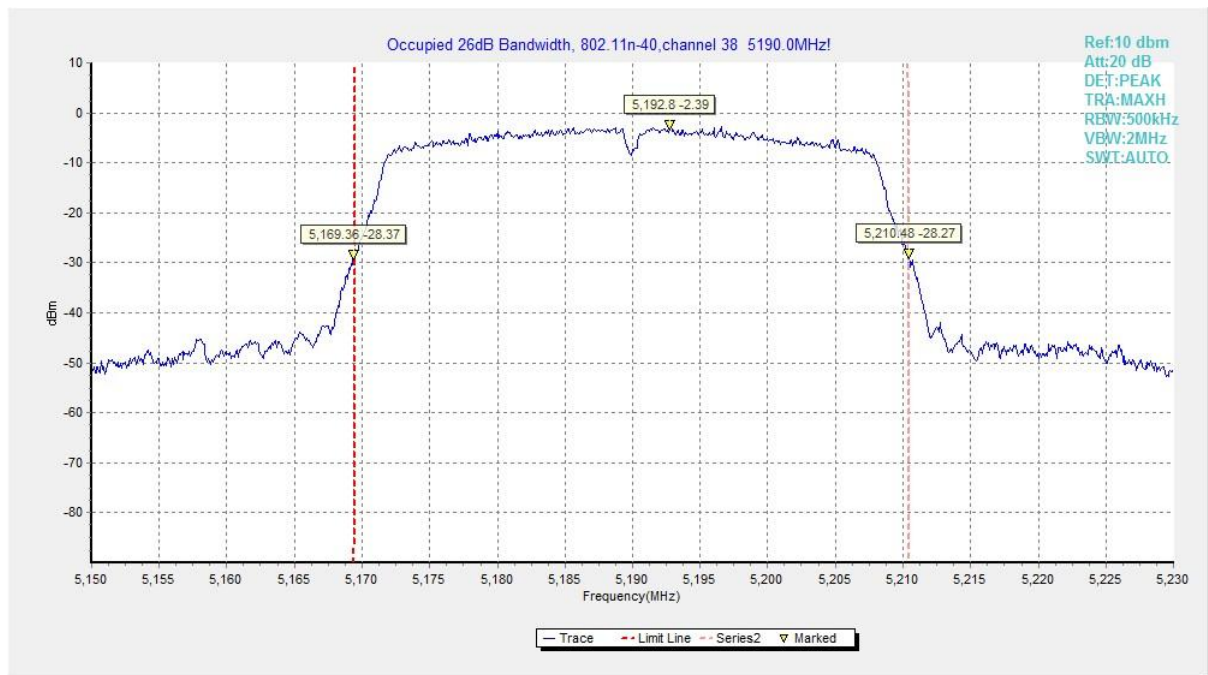


Fig. 7 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

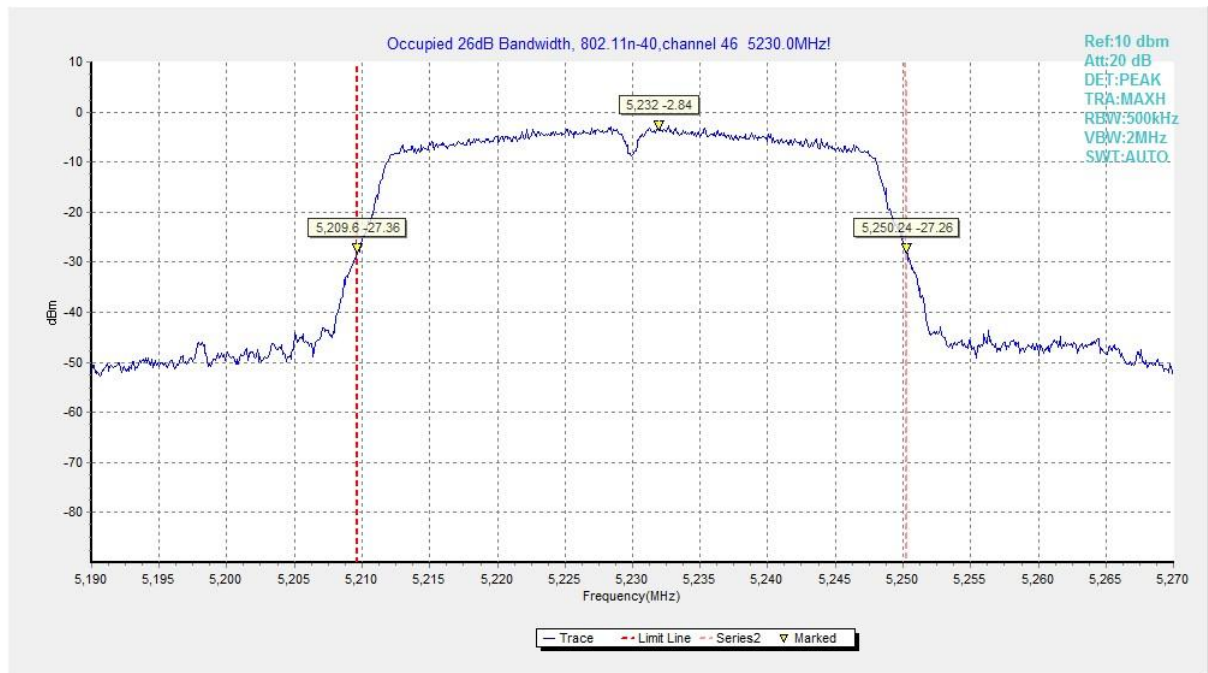


Fig. 8 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

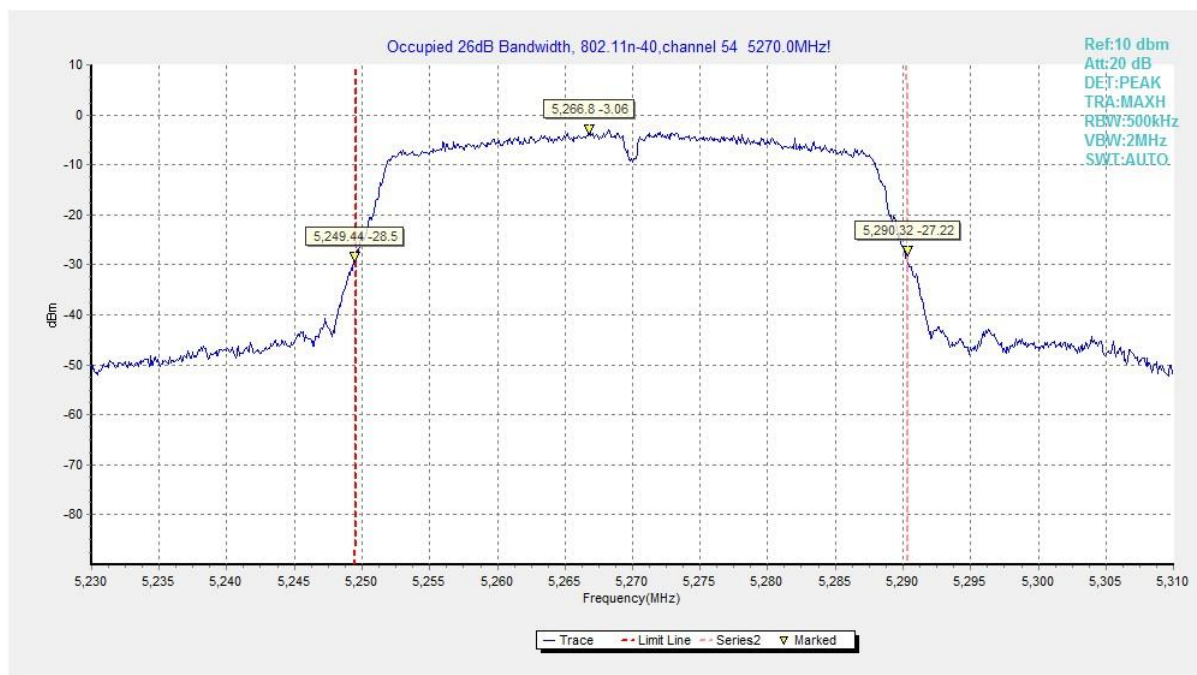


Fig. 9 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)



Fig. 10 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

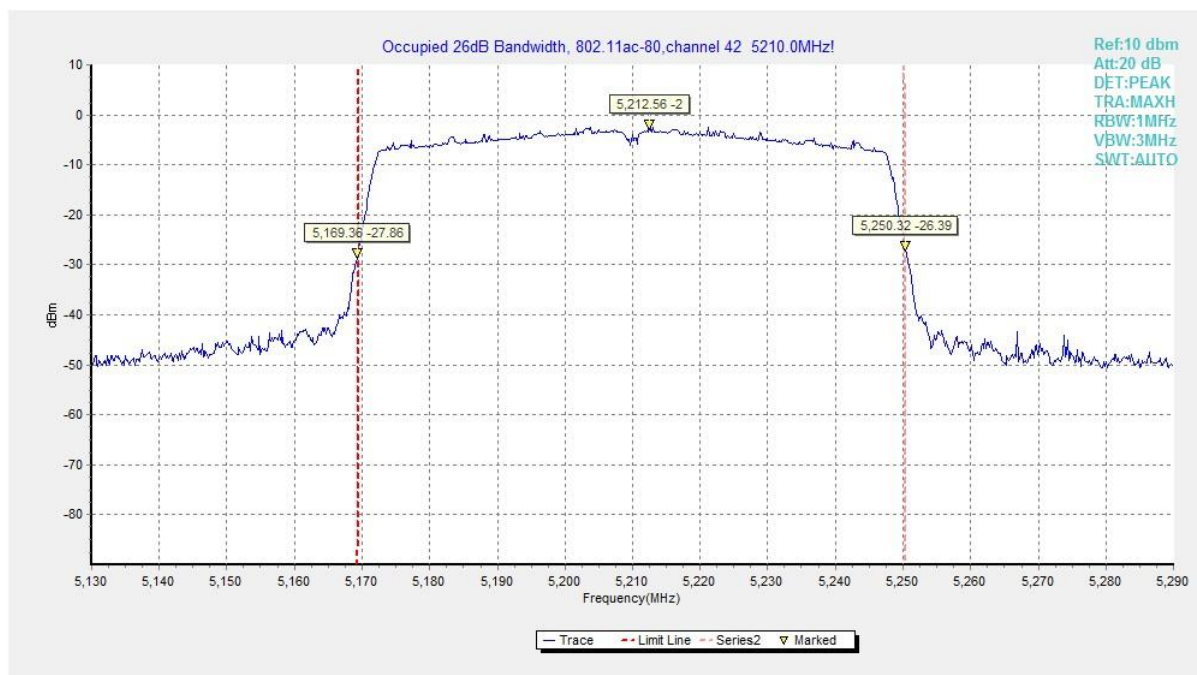


Fig. 11 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)

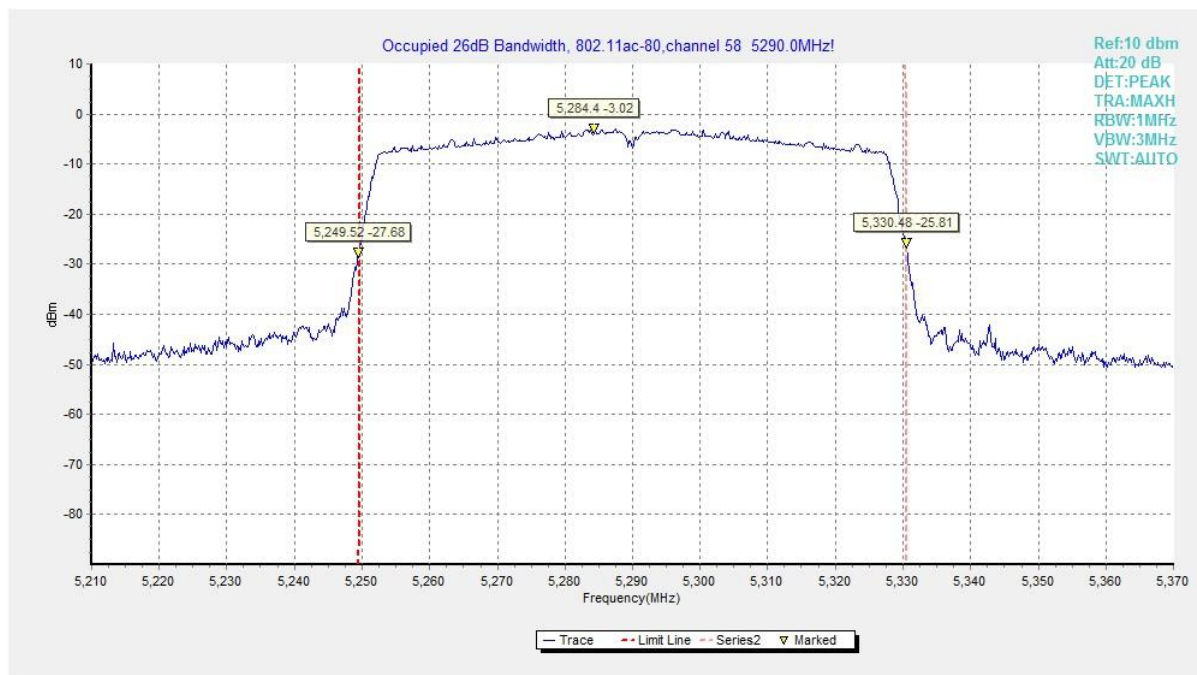


Fig. 12 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)

A.5. Occupied 6dB Bandwidth

Measurement Limit:

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

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth (MHz)		Conclusion
802.11a	5745MHz(Ch149)	Fig.13	15.15	P
	5785MHz(Ch157)	Fig.14	15.15	P
	5825MHz(Ch165)	Fig.15	15.35	P
802.11n HT40	5755MHz(Ch151)	Fig.16	35.12	P
	5795MHz(Ch159)	Fig.17	35.12	P
802.11ac VHT80	5775MHz(Ch155)	Fig.18	75.20	P

Conclusion: PASS

Test graphs as below:

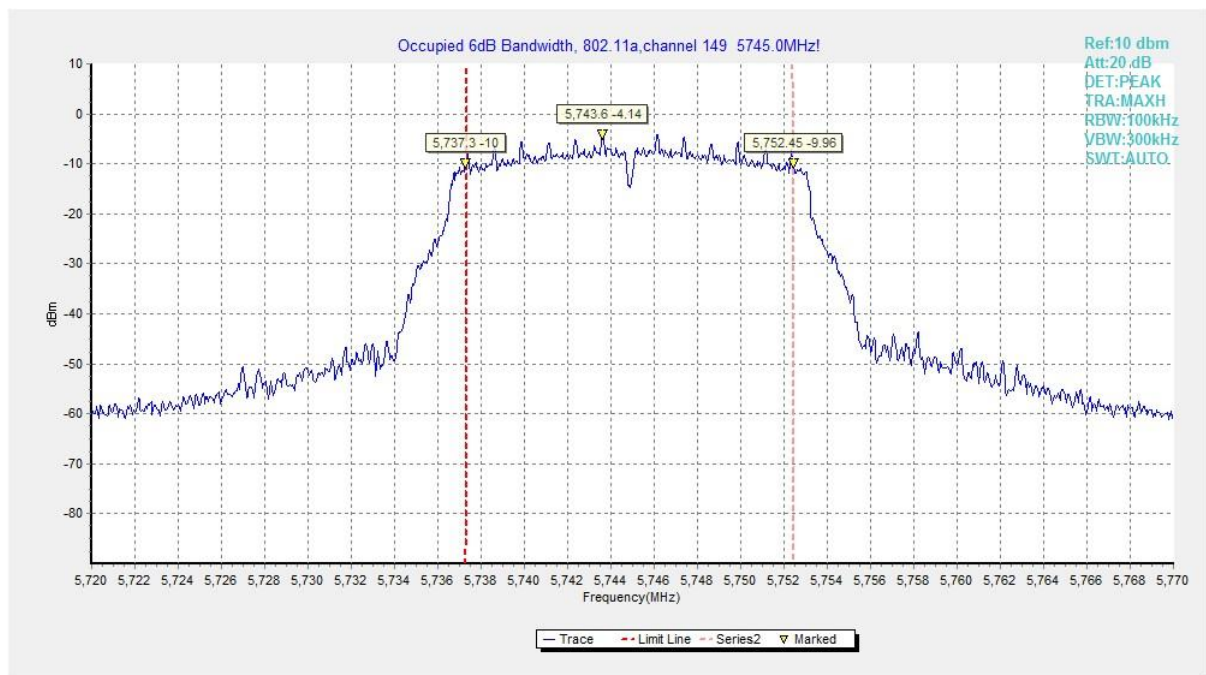


Fig. 13 Occupied 6dB Bandwidth (802.11a, 5745MHz)

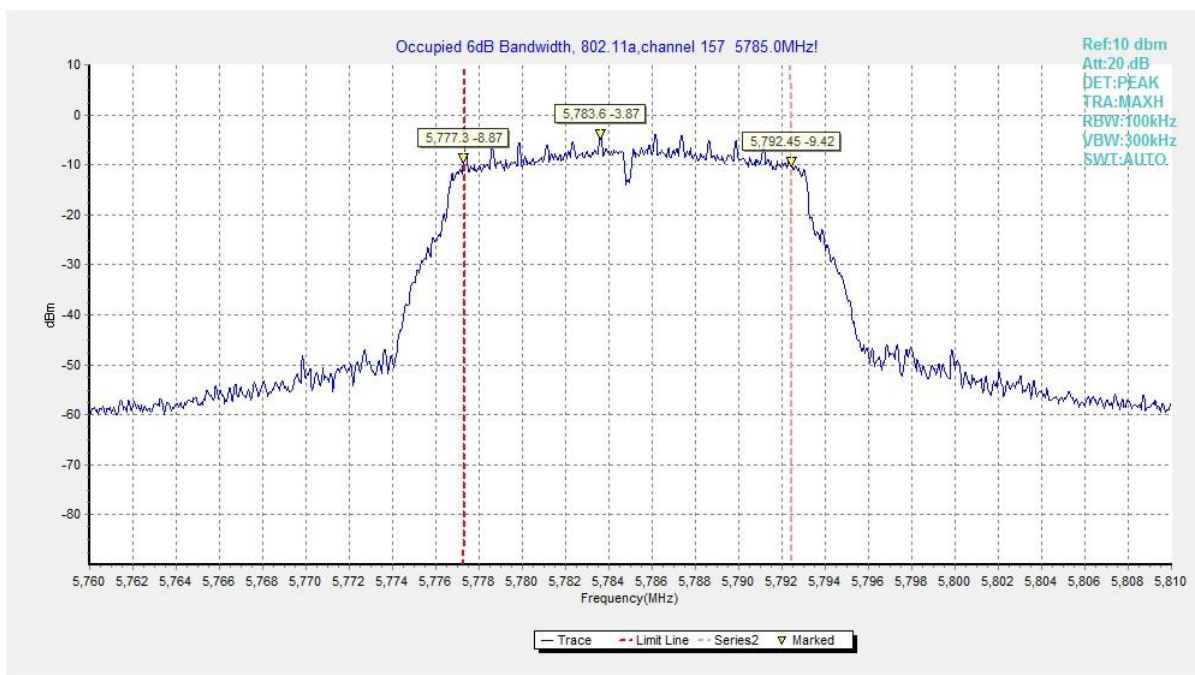


Fig. 14 Occupied 6dB Bandwidth (802.11a, 5785MHz)

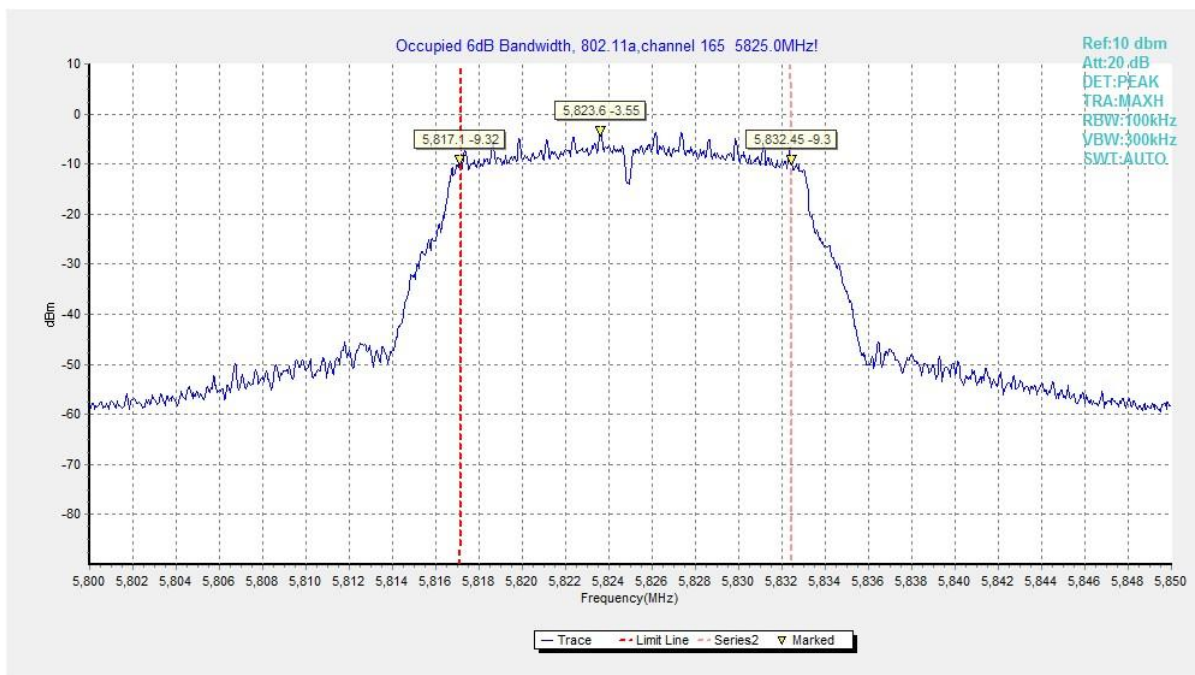


Fig. 15 Occupied 6dB Bandwidth (802.11a, 5825MHz)

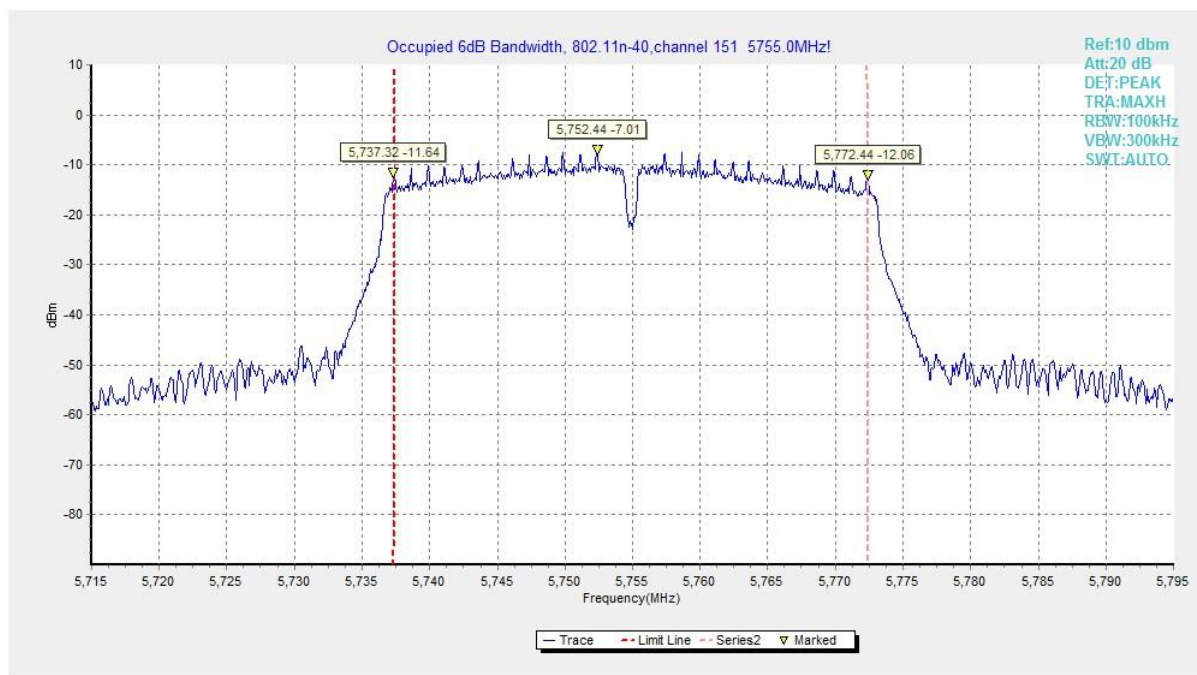


Fig. 16 Occupied 6dB Bandwidth (802.11n-HT40, 5755MHz)

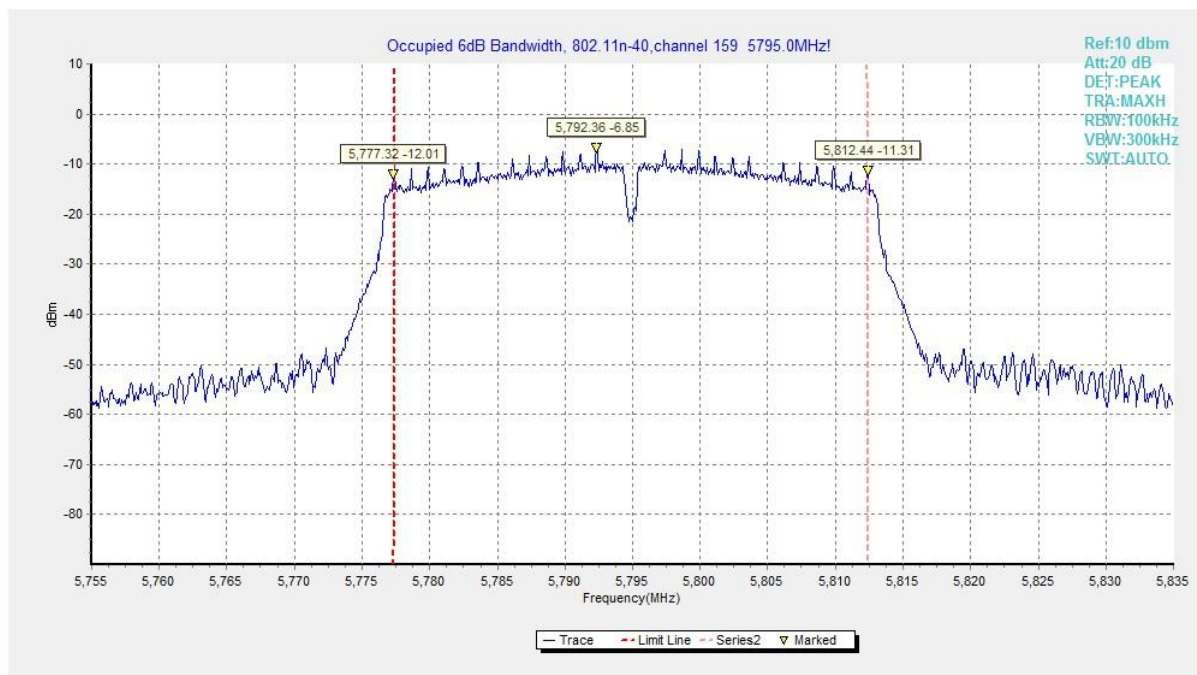


Fig. 17 Occupied 6dB Bandwidth (802.11n-HT40, 5795MHz)

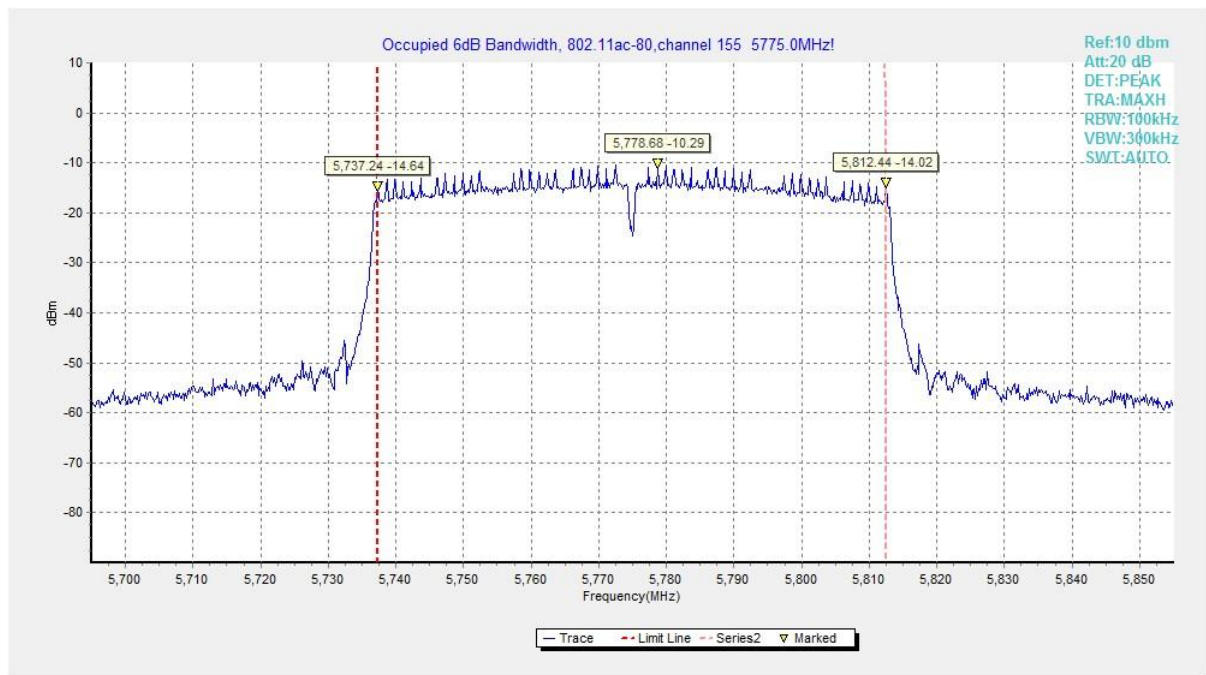


Fig. 18 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)

A.6. 99% Occupied Bandwidth

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
802.11a	5180MHz(Ch36)	Fig.19	17.26	P
	5200MHz(Ch40)	Fig.20	17.22	P
	5240MHz(Ch48)	Fig.21	17.30	P
	5260MHz(Ch52)	Fig.22	17.22	P
	5280MHz(Ch56)	Fig.23	17.14	P
	5320MHz(Ch64)	Fig.24	17.26	P
	5745MHz(Ch149)	Fig.25	17.22	P
	5785MHz(Ch157)	Fig.26	17.26	P
	5825MHz(Ch165)	Fig.27	17.22	P
802.11n HT40	5190MHz(Ch38)	Fig.28	36.20	P
	5230MHz(Ch46)	Fig.29	36.04	P
	5270MHz(Ch54)	Fig.30	36.12	P
	5310MHz(Ch62)	Fig.31	36.36	P
	5755MHz(Ch151)	Fig.32	36.96	P
	5795MHz(Ch159)	Fig.33	36.20	P
802.11ac VHT80	5210MHz(Ch42)	Fig.34	75.12	P
	5290MHz(Ch58)	Fig.35	75.28	P
	5775MHz(Ch155)	Fig.36	75.12	P

Conclusion: PASS

Test graphs as below:

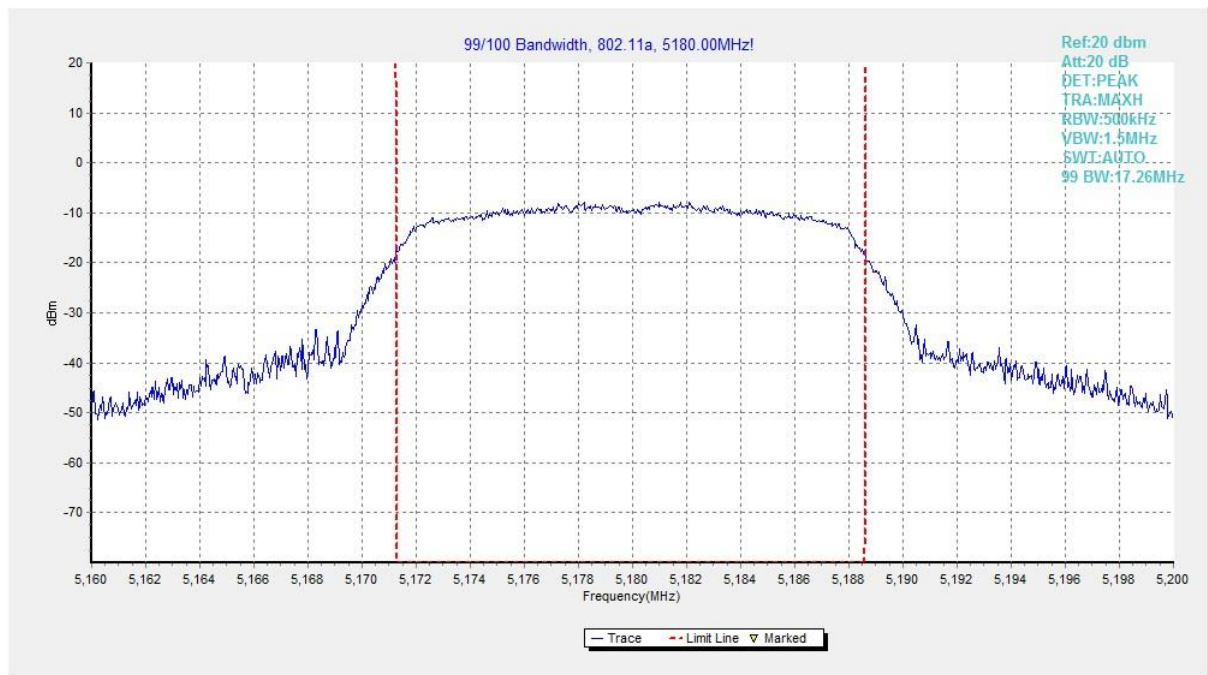


Fig. 19 99% Occupied Bandwidth (802.11a, 5180MHz)

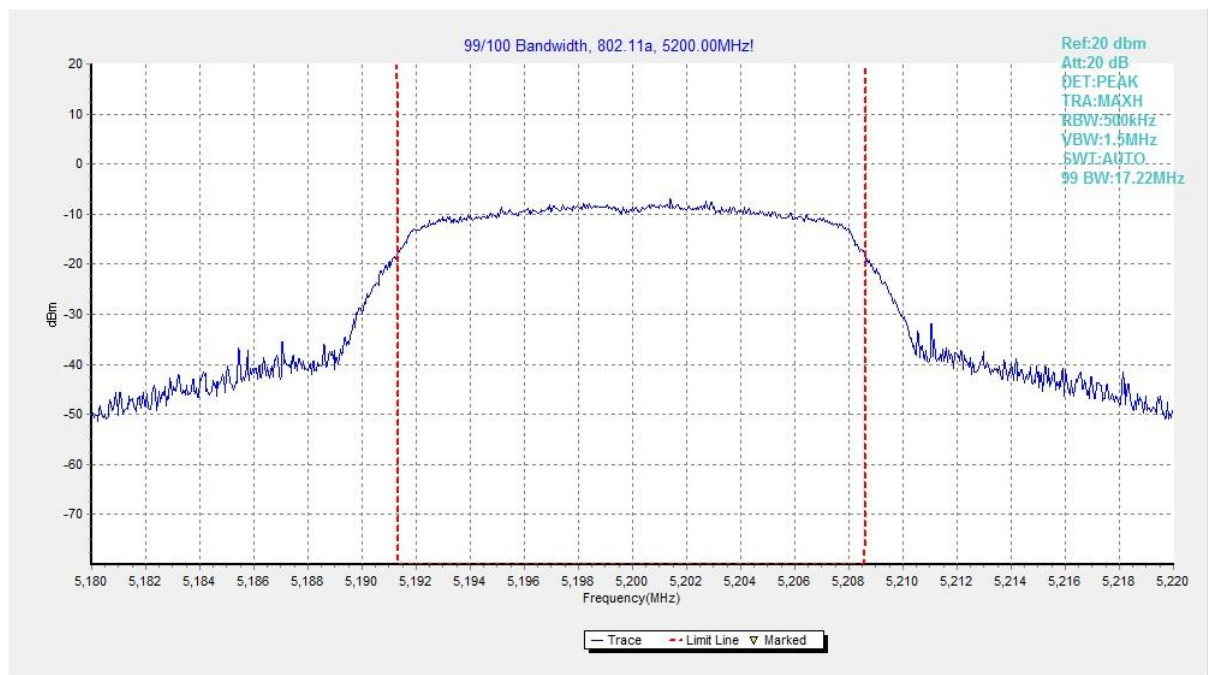


Fig. 20 99% Occupied Bandwidth (802.11a, 5200MHz)

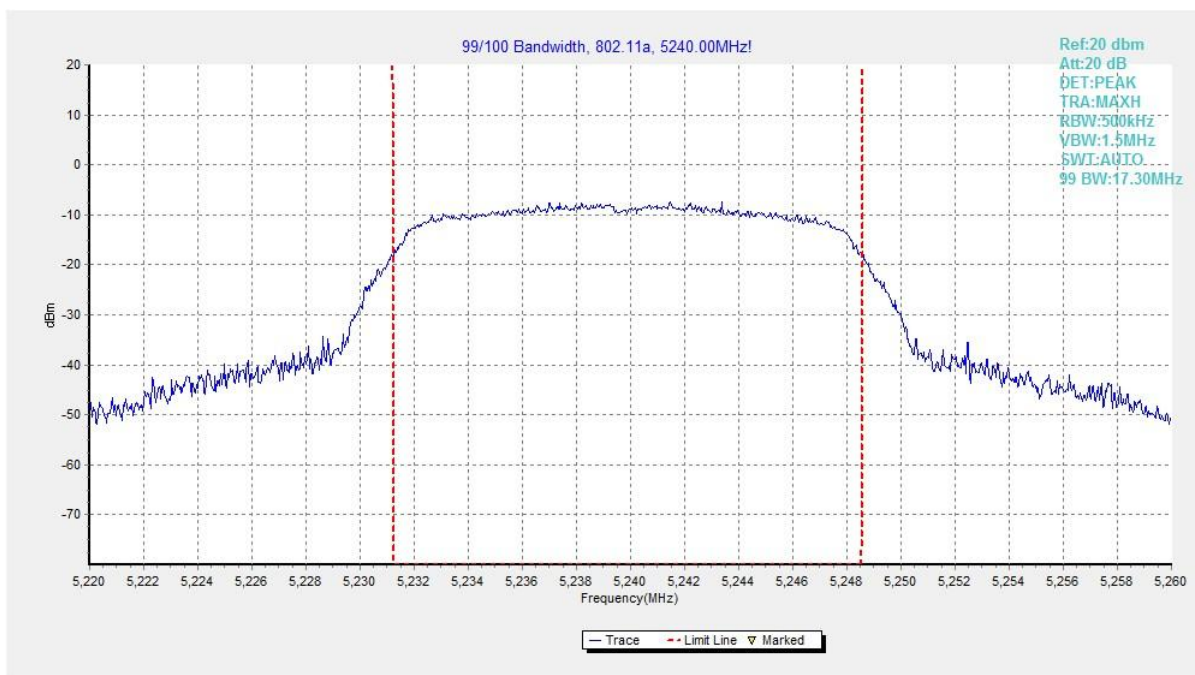


Fig. 21 99% Occupied Bandwidth (802.11a, 5240MHz)

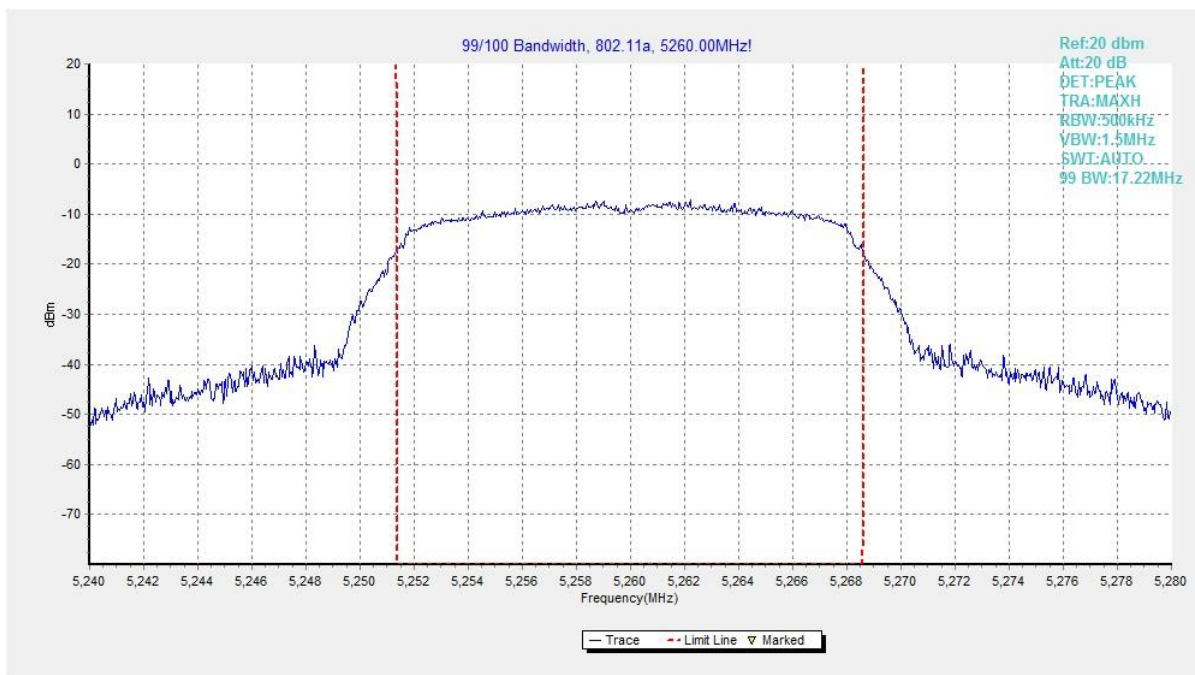


Fig. 22 99% Occupied Bandwidth (802.11a, 5260MHz)

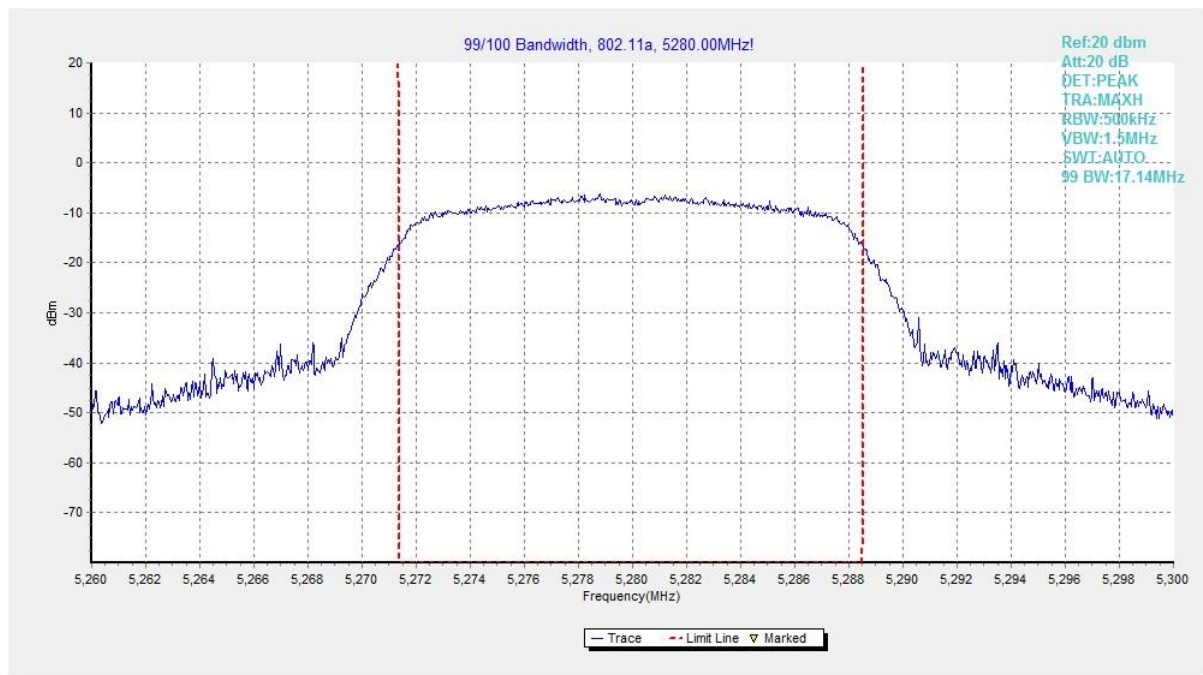


Fig. 23 99% Occupied Bandwidth (802.11a, 5280MHz)

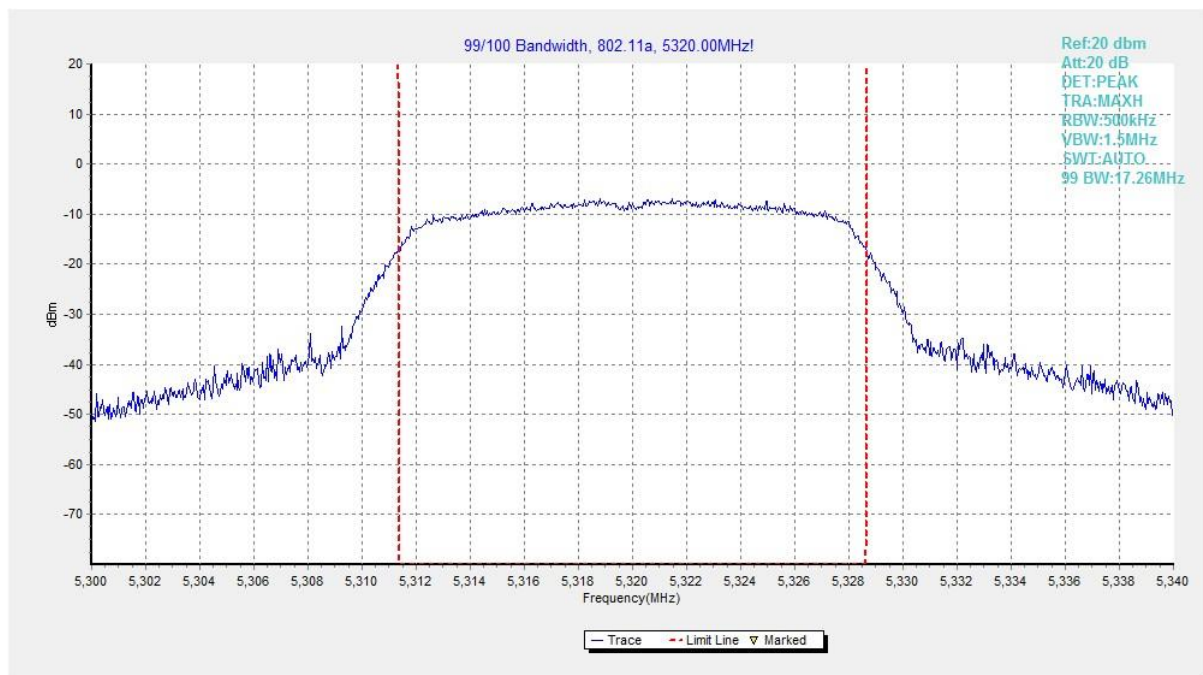


Fig. 24 99% Occupied Bandwidth (802.11a, 5320MHz)



Fig. 25 99% Occupied Bandwidth (802.11a, 5745MHz)

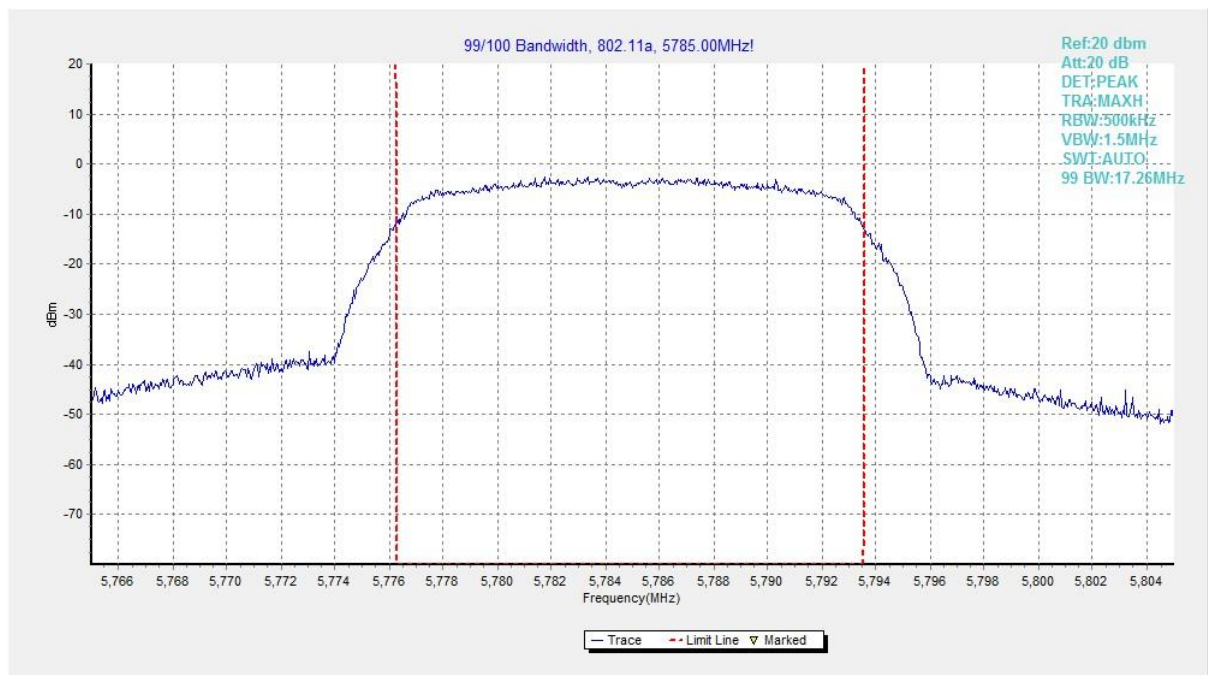


Fig. 26 99% Occupied Bandwidth (802.11a, 5785MHz)

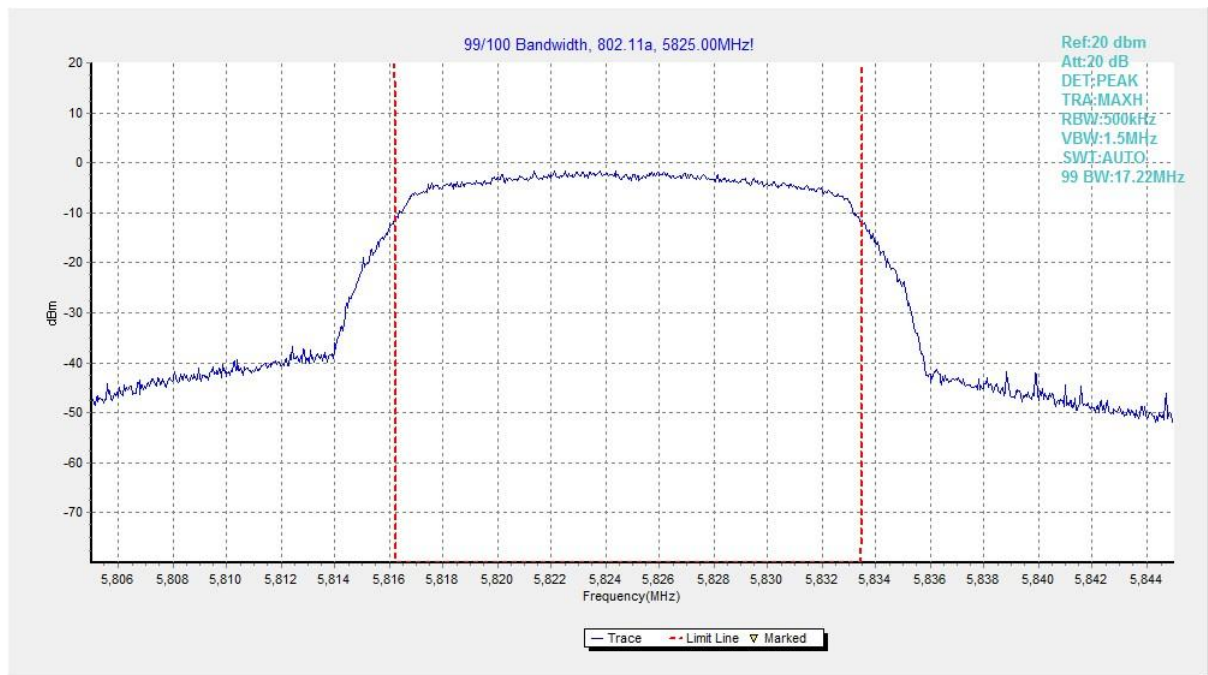


Fig. 27 99% Occupied Bandwidth (802.11a, 5825MHz)

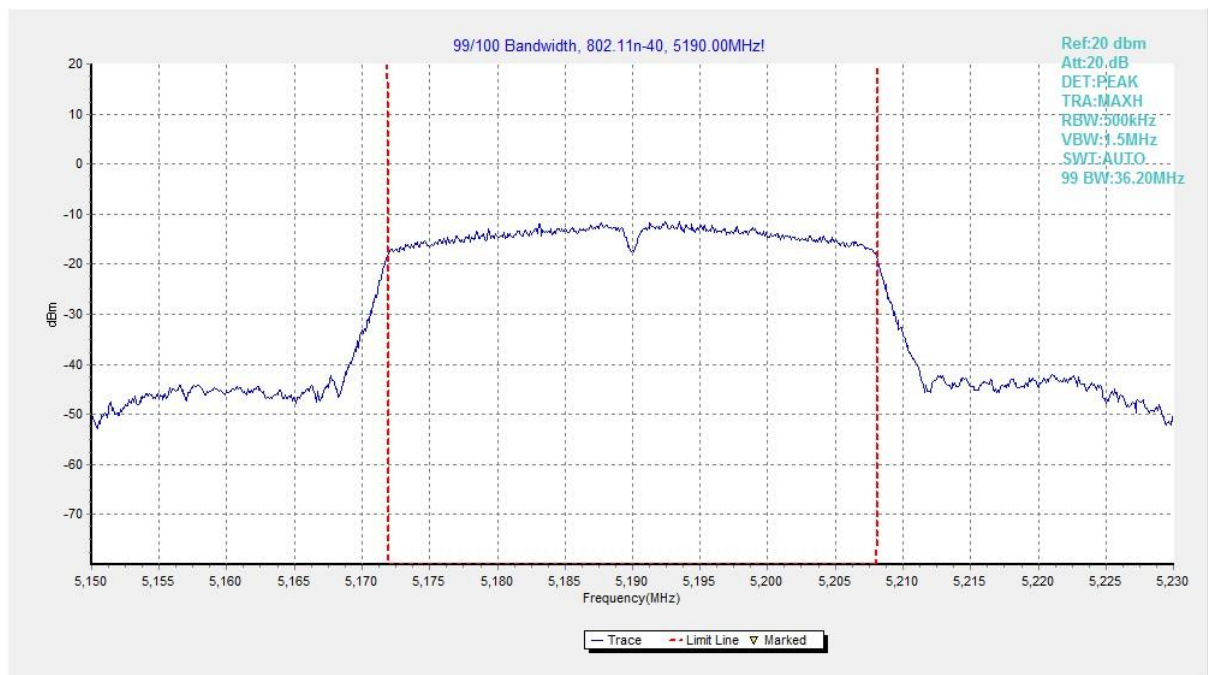


Fig. 28 99% Occupied Bandwidth (802.11n-HT40, 5190MHz)

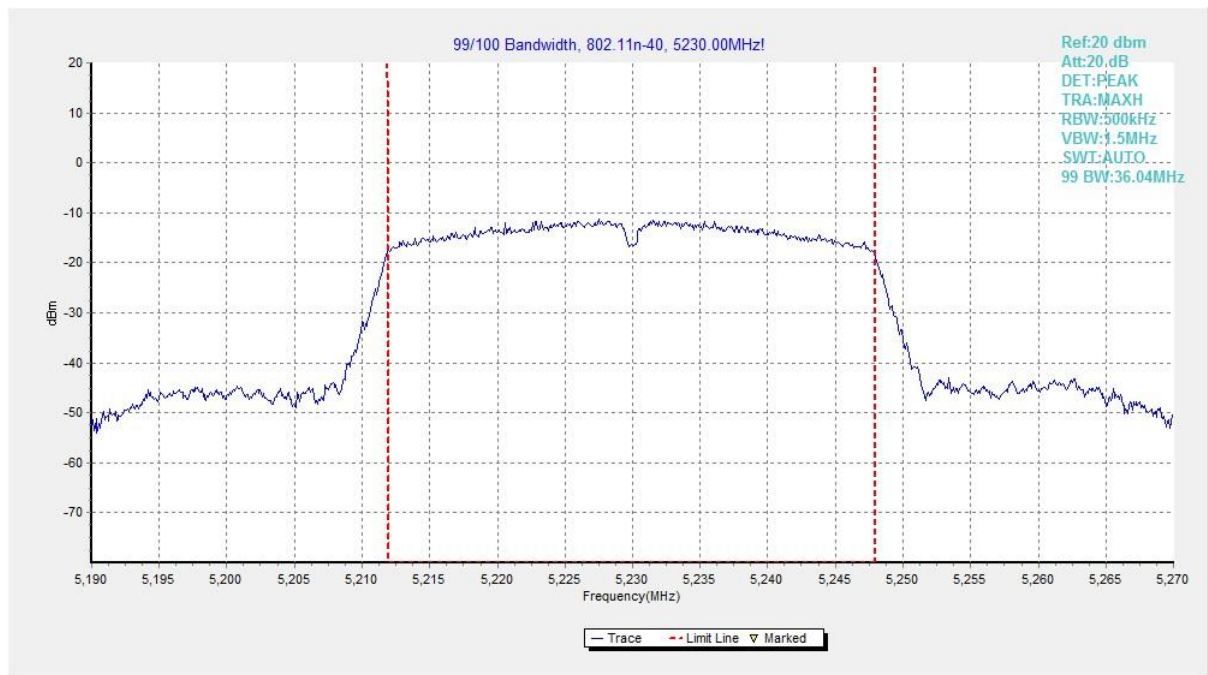


Fig. 29 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)

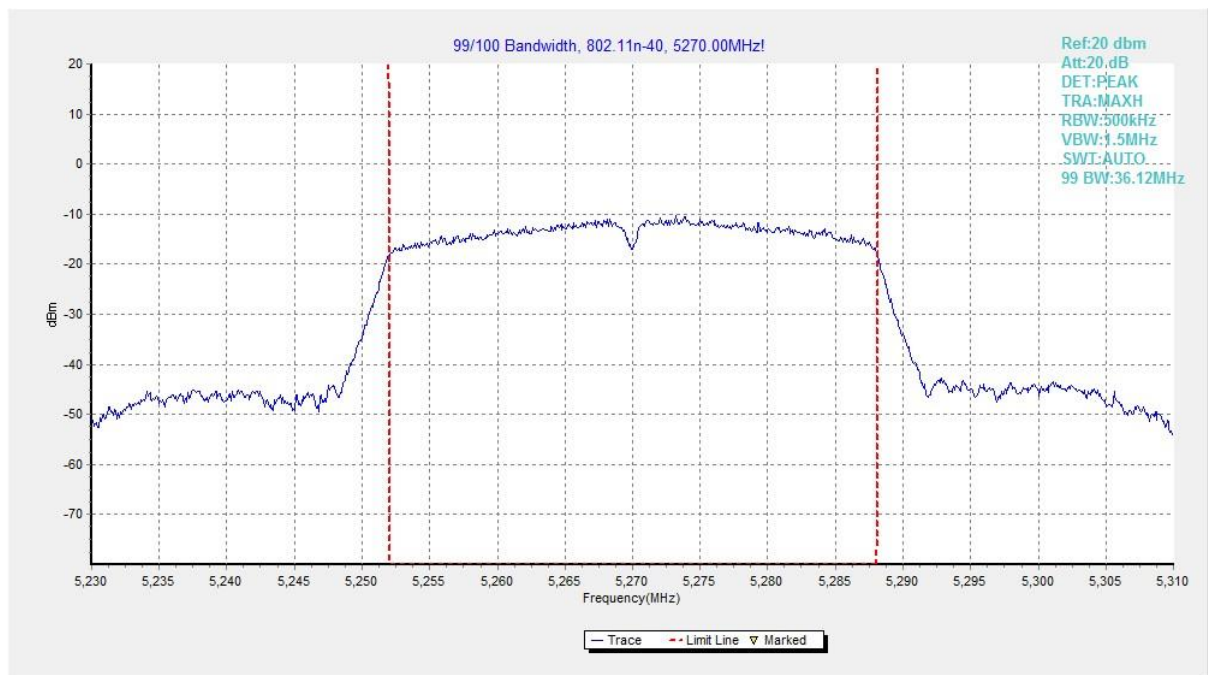


Fig. 30 99% Occupied Bandwidth (802.11n-HT40, 5270MHz)

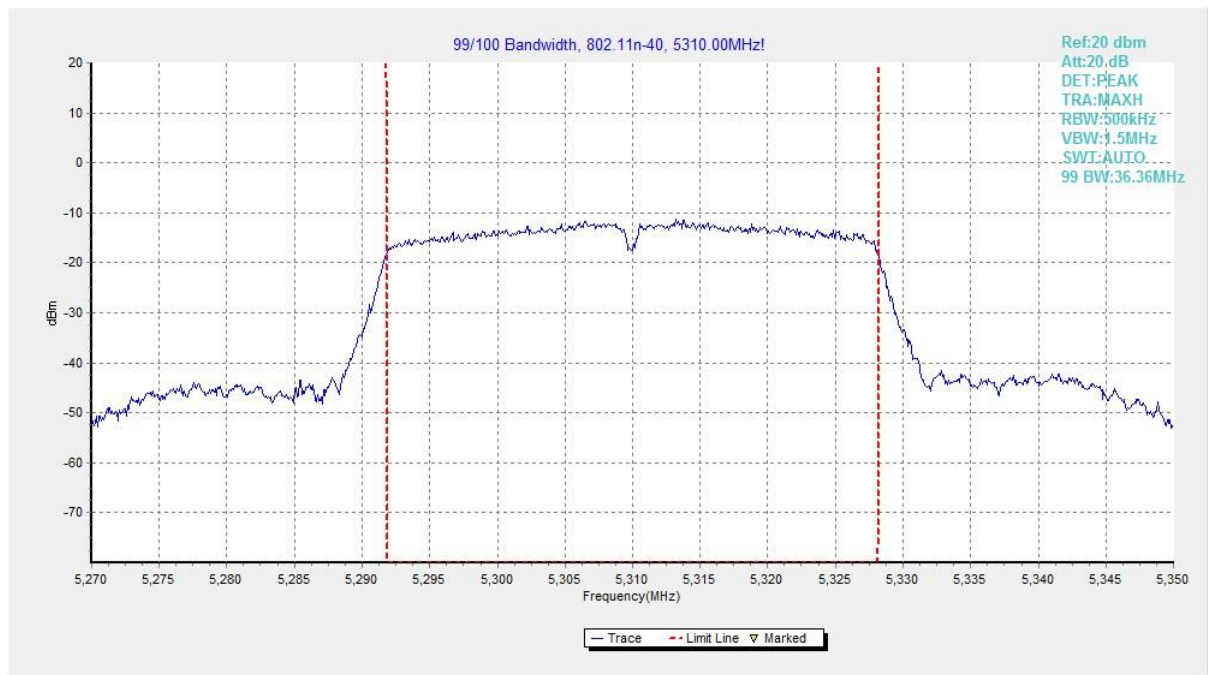


Fig. 31 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)

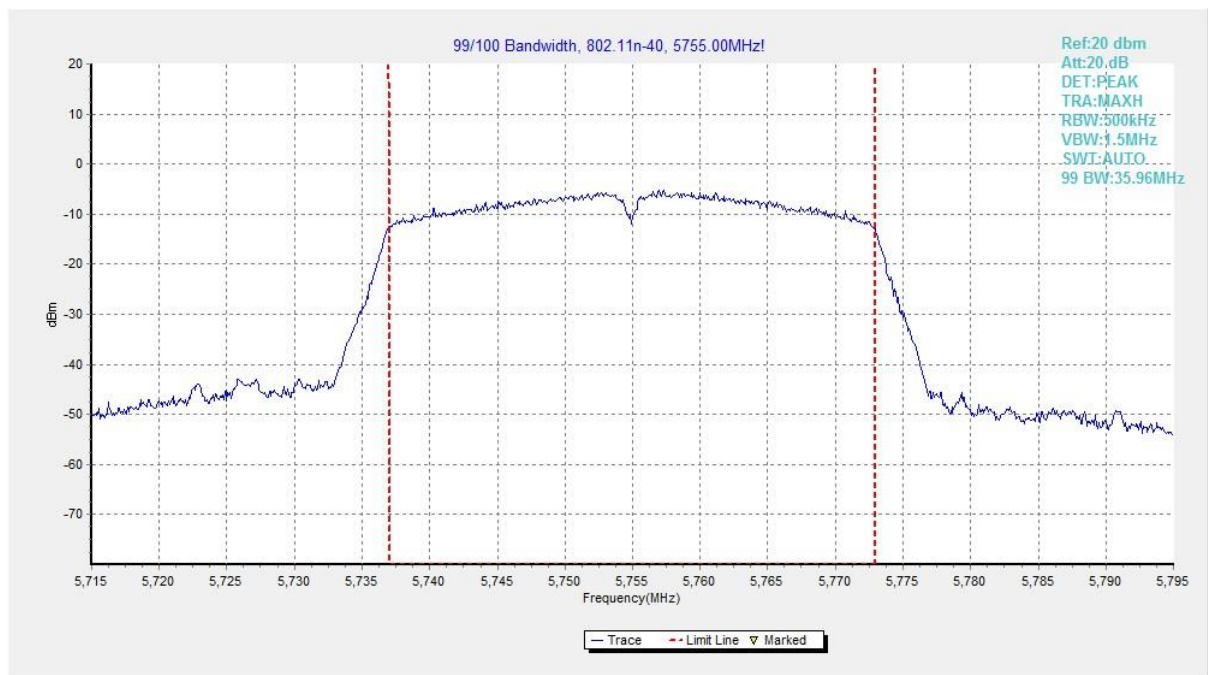


Fig. 32 99% Occupied Bandwidth (802.11n-HT40, 5755MHz)

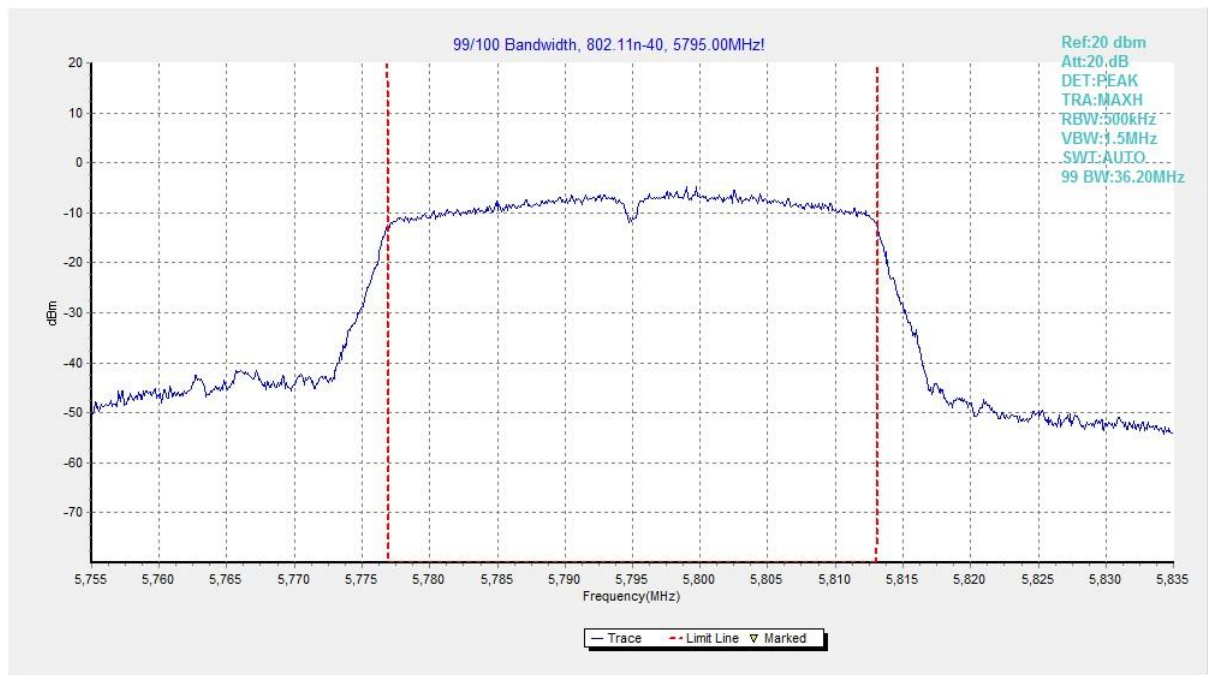


Fig. 33 99% Occupied Bandwidth (802.11n-HT40, 5795MHz)

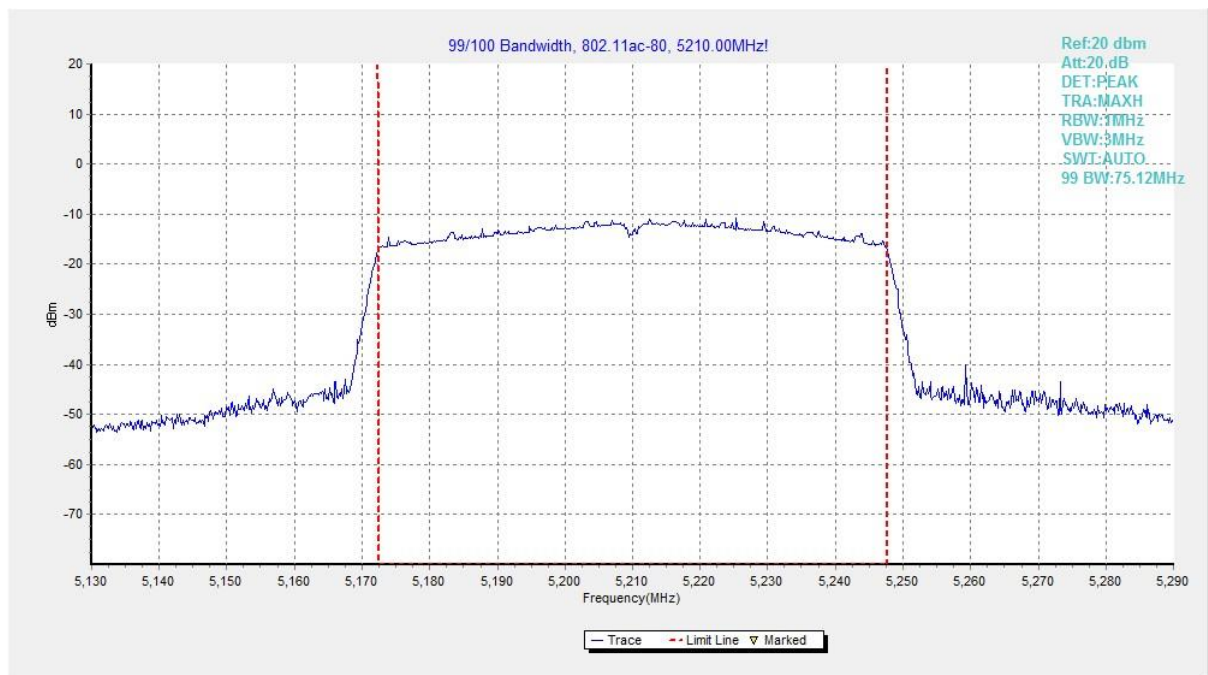


Fig. 34 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)

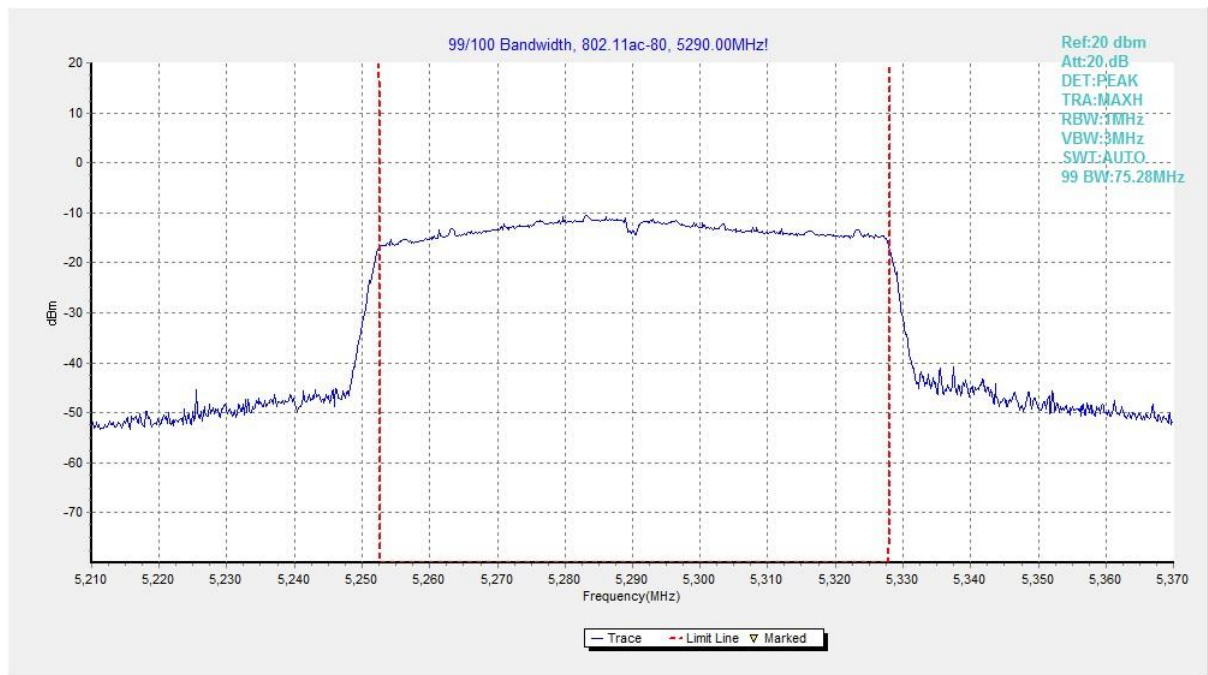


Fig. 35 99% Occupied Bandwidth (802.11ac-VHT80, 5290MHz)

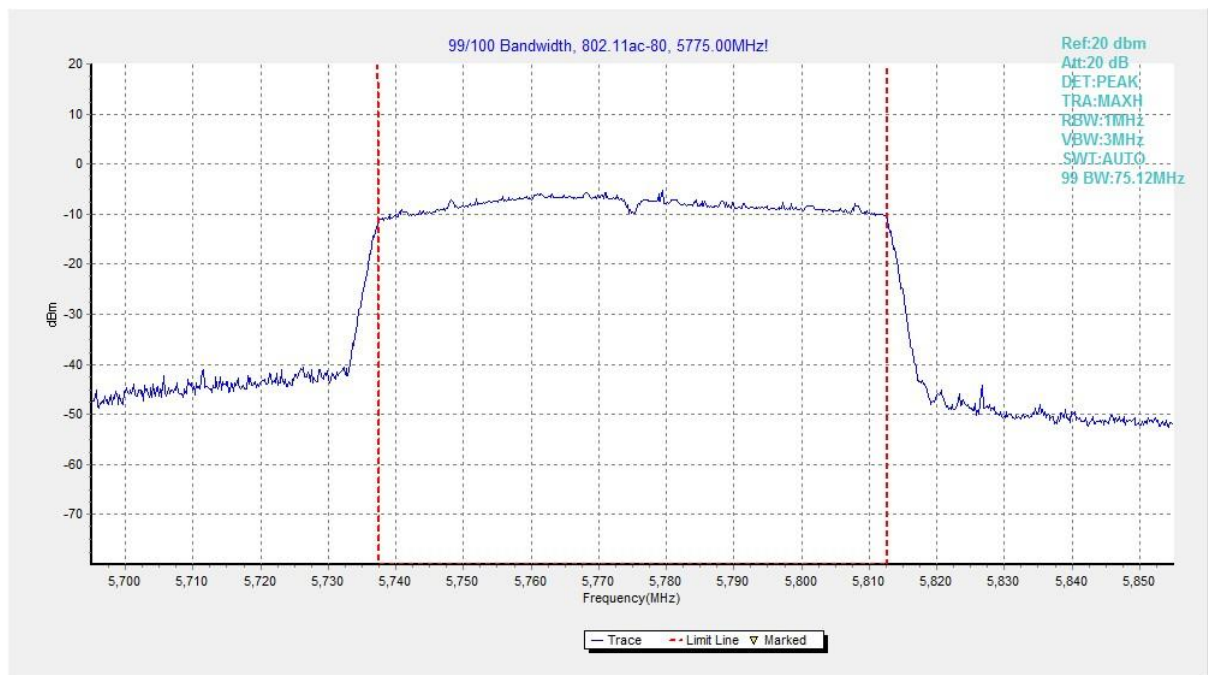


Fig. 36 99% Occupied Bandwidth (802.11ac-VHT80, 5775MHz)

A.7. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBuV/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz (CH36)	Fig.37	P
	5320 MHz (CH64)	Fig.38	P
	5745 MHz (CH149)	Fig.39	P
	5825 MHz (CH165)	Fig.40	P
802.11n HT40	5190 MHz (CH38)	Fig.41	P
	5310 MHz (CH62)	Fig.42	P
	5755 MHz (CH151)	Fig.43	P
	5795 MHz (CH159)	Fig.44	P
802.11ac VHT80	5210 MHz (CH42)	Fig.45	P
	5290 MHz (CH58)	Fig.46	P
	5775 MHz (CH155)	Fig.47	P

Conclusion: PASS

Test graphs as below:

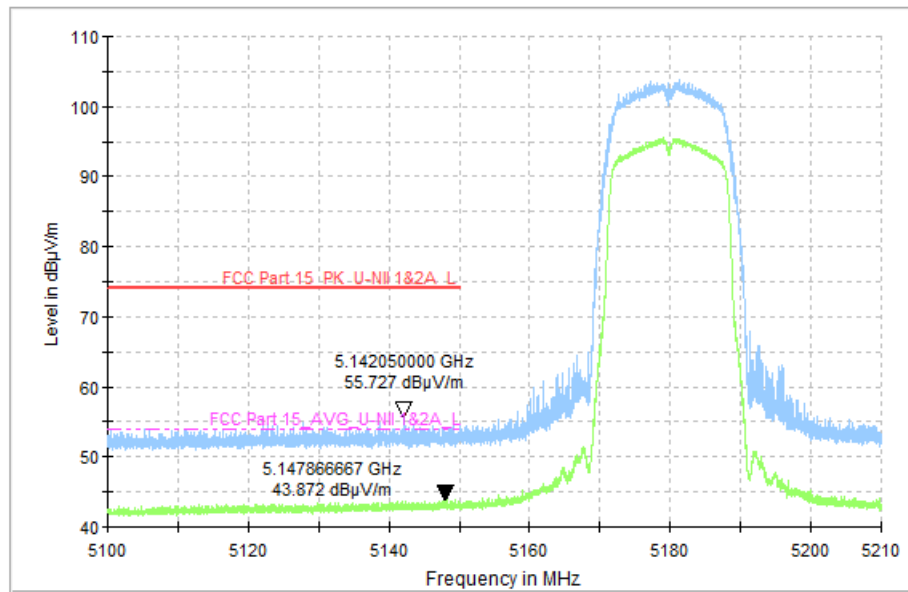


Fig. 37 Band Edges (802.11a, CH36 5180MHz)

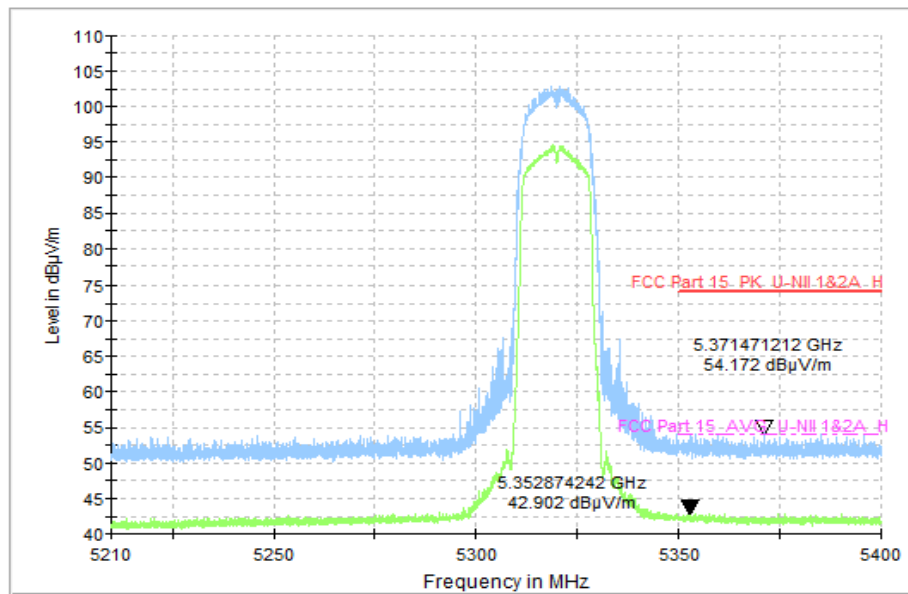


Fig. 38 Band Edges (802.11a, CH64 5320MHz)

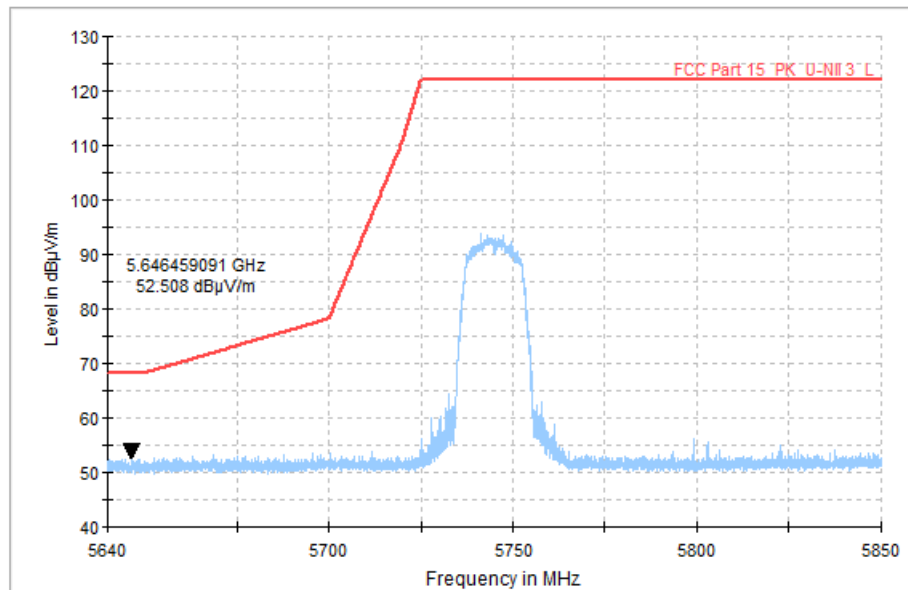


Fig. 39 Band Edges (802.11a, CH149 5745MHz)

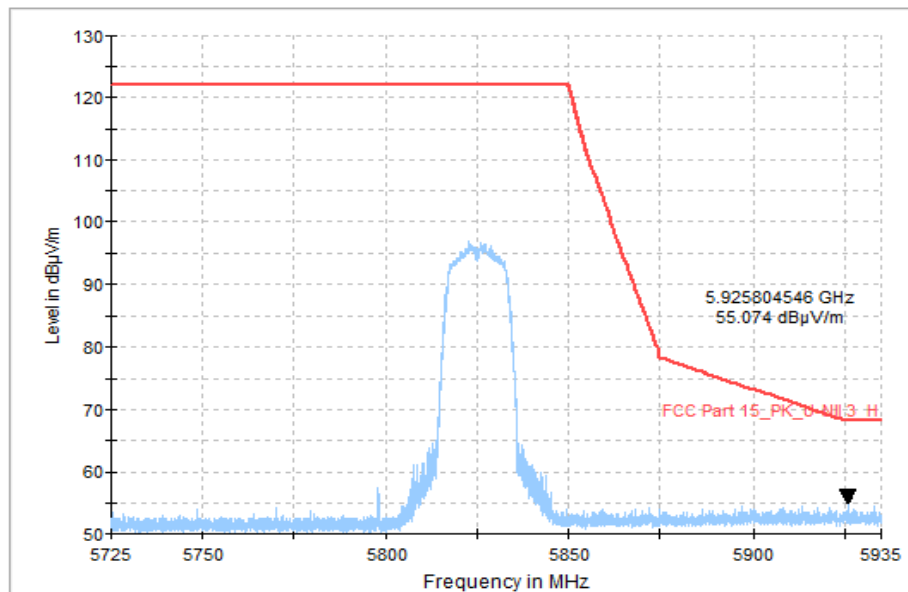


Fig. 40 Band Edges (802.11a, CH165 5825MHz)

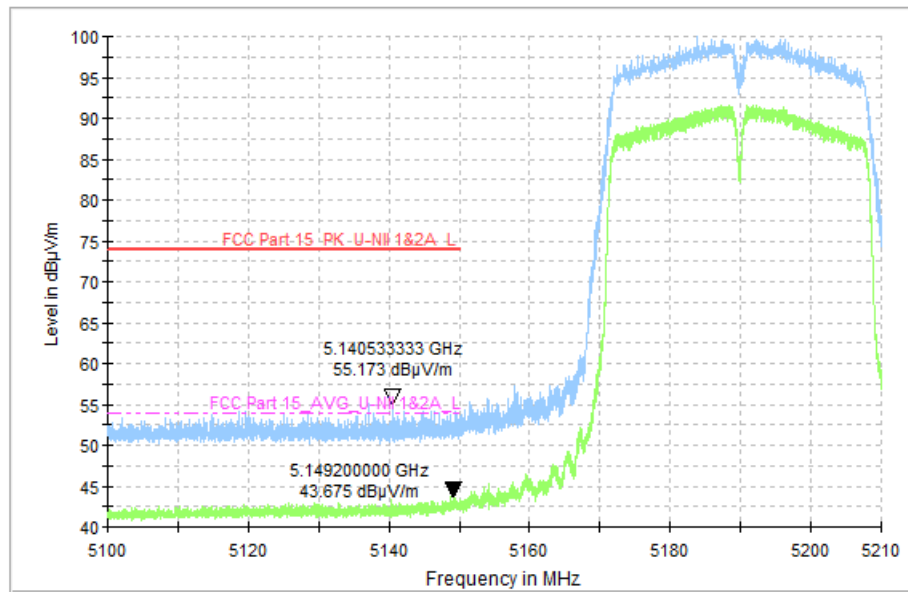


Fig. 41 Band Edges (802.11n-HT40, CH38 5190MHz)

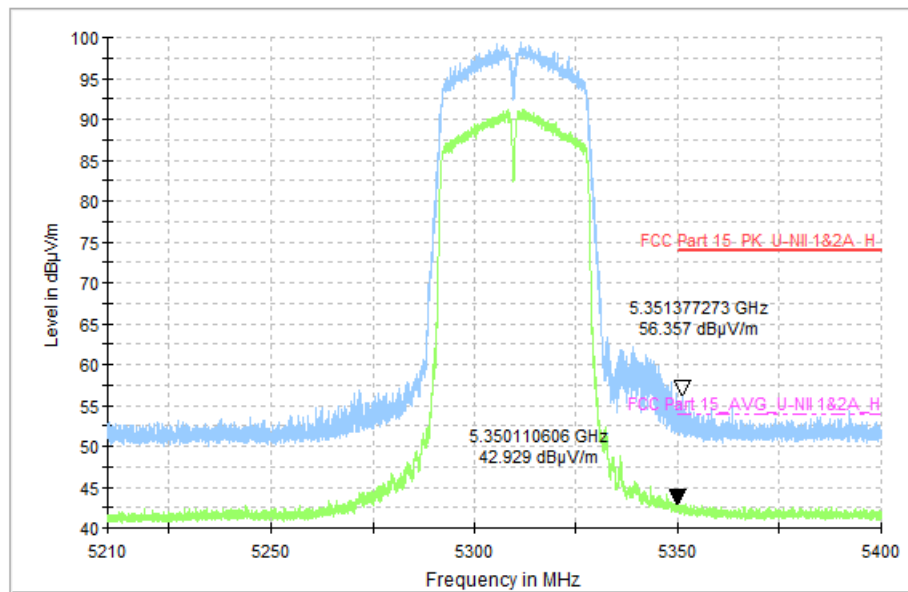


Fig. 42 Band Edges (802.11n-HT40, CH62 5310MHz)

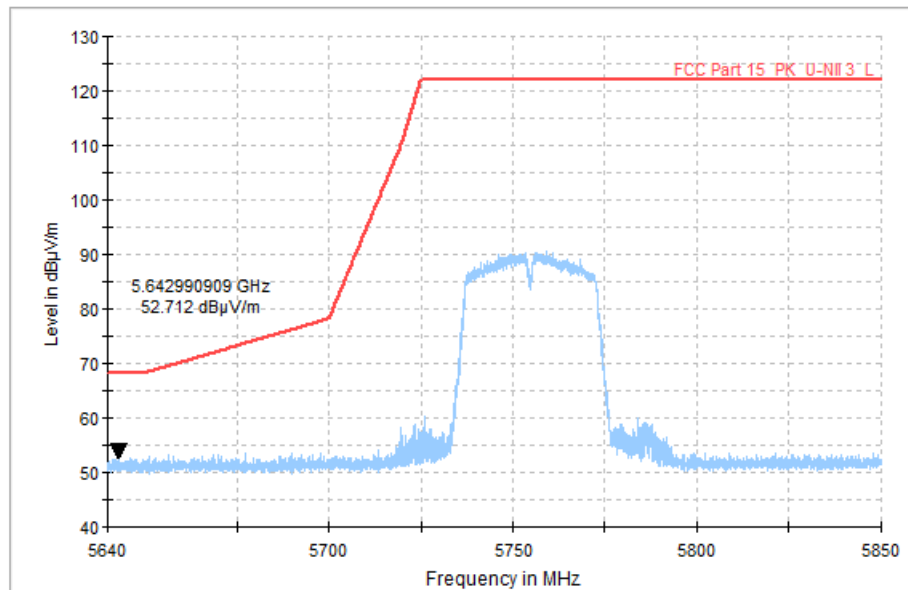


Fig. 43 Band Edges (802.11n-HT40, CH151 5755MHz)

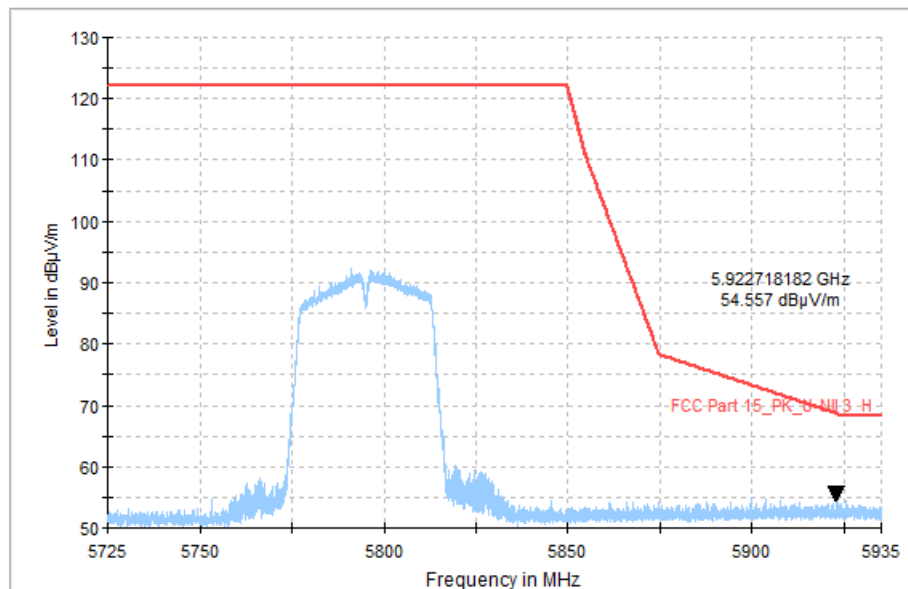


Fig. 44 Band Edges (802.11n-HT40, CH159 5795MHz)

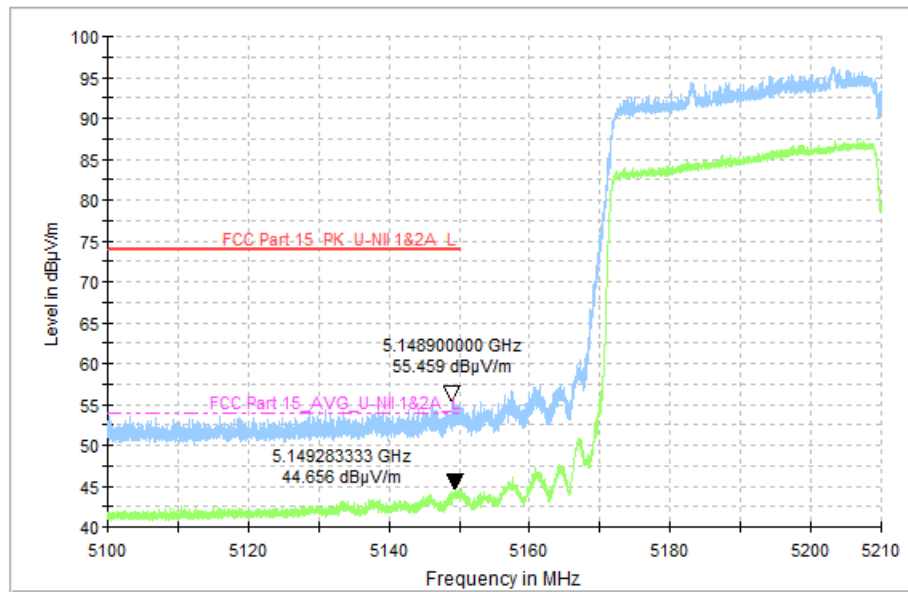


Fig. 45 Band Edges (802.11ac-VHT80, CH42 5210MHz)

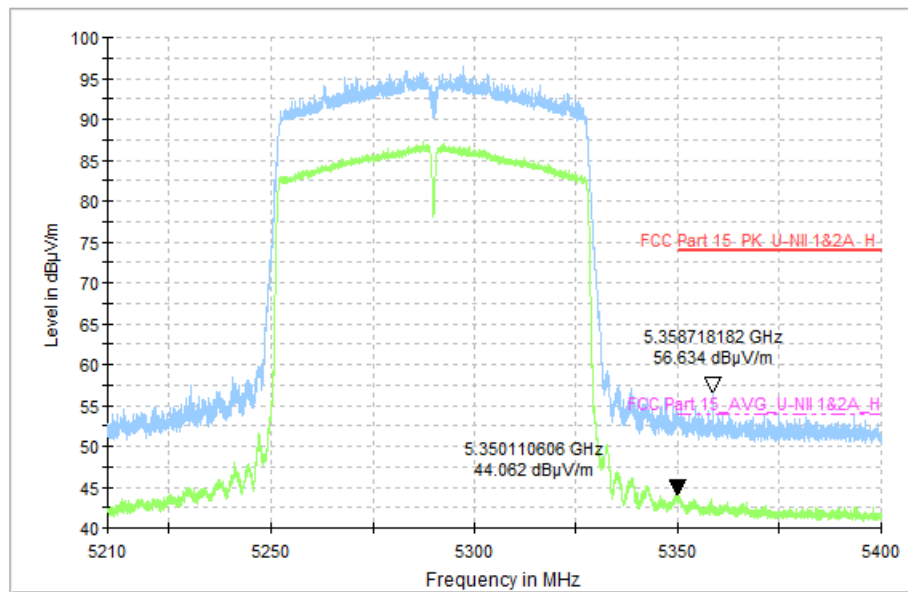


Fig. 46 Band Edges (802.11ac-VHT80, CH58 5290MHz)

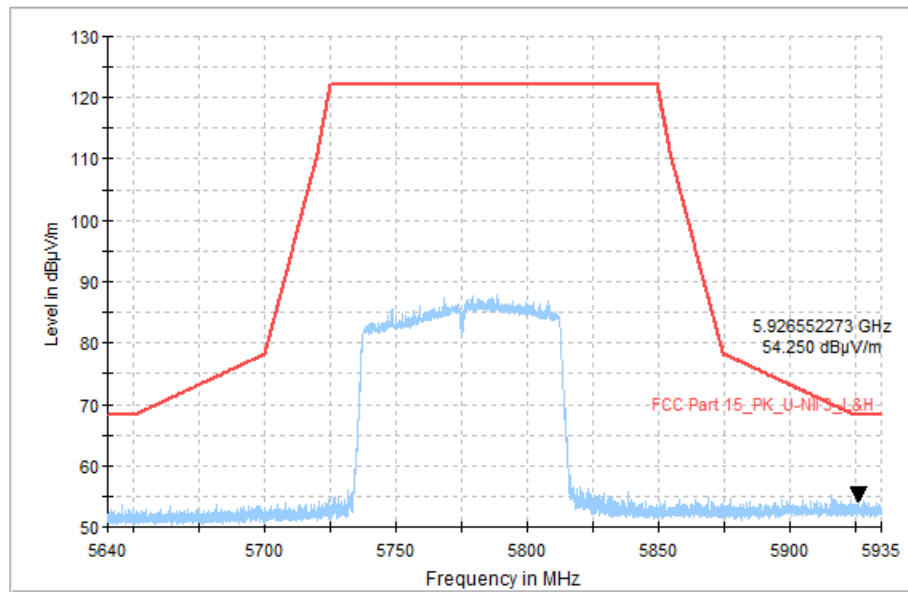


Fig. 47 Band Edges (802.11ac-VHT80, CH155 5775MHz)

A.8. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit (dBm/MHz)
FCC 47 CFR Part 15.407, 15.205	< -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.48	P
	5200MHz (Ch40)	1 GHz ~ 18 GHz	Fig.49	P
	5240MHz (Ch48)	1 GHz ~ 18 GHz	Fig.50	P
	5260MHz (Ch52)	1 GHz ~ 18 GHz	Fig.51	P
	5280MHz (Ch56)	1 GHz ~ 18 GHz	Fig.52	P
	5320MHz (Ch64)	1 GHz ~ 18 GHz	Fig.53	P
	5745MHz (Ch149)	1 GHz ~ 18 GHz	Fig.54	P
	5785MHz (Ch157)	1 GHz ~ 18 GHz	Fig.55	P
	5825MHz (Ch165)	1 GHz ~ 18 GHz	Fig.56	P
802.11n HT40	5190MHz (Ch38)	1 GHz ~ 18 GHz	Fig.57	P
	5230MHz (Ch46)	1 GHz ~ 18 GHz	Fig.58	P
	5270MHz (Ch54)	1 GHz ~ 18 GHz	Fig.59	P
	5310MHz (Ch62)	1 GHz ~ 18 GHz	Fig.60	P
	5755MHz (Ch151)	1 GHz ~ 18 GHz	Fig.61	P
	5795MHz (Ch159)	1 GHz ~ 18 GHz	Fig.62	P
802.11ac VHT80	5210MHz (Ch42)	1 GHz ~ 18 GHz	Fig.63	P
	5290MHz (Ch58)	1 GHz ~ 18 GHz	Fig.64	P
	5775MHz (Ch155)	1 GHz ~ 18 GHz	Fig.65	P
All channels		30 MHz ~ 1 GHz	Fig.66	P
		18 GHz ~ 26.5 GHz	Fig.67	P
		26.5GHz ~ 40GHz	Fig.68	P

Conclusion: PASS

Test graphs as below:

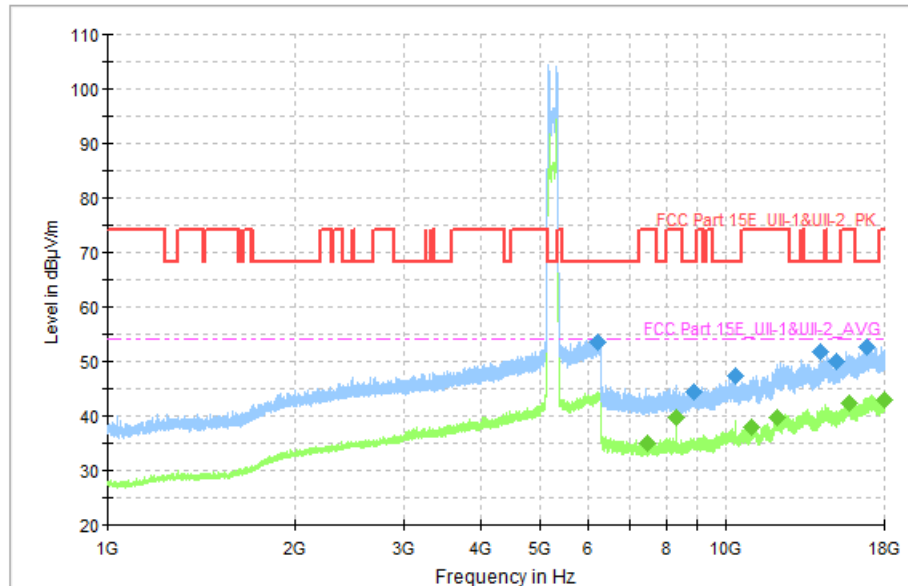


Fig. 48 Transmitter Spurious Emission (802.11a, CH36 5180MHz)

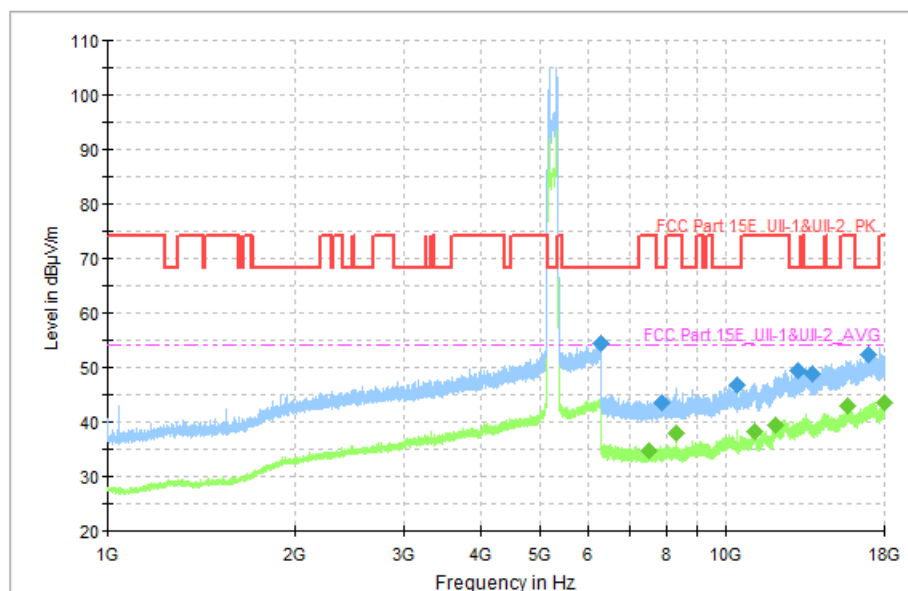


Fig. 49 Transmitter Spurious Emission (802.11a, CH40 5200MHz)

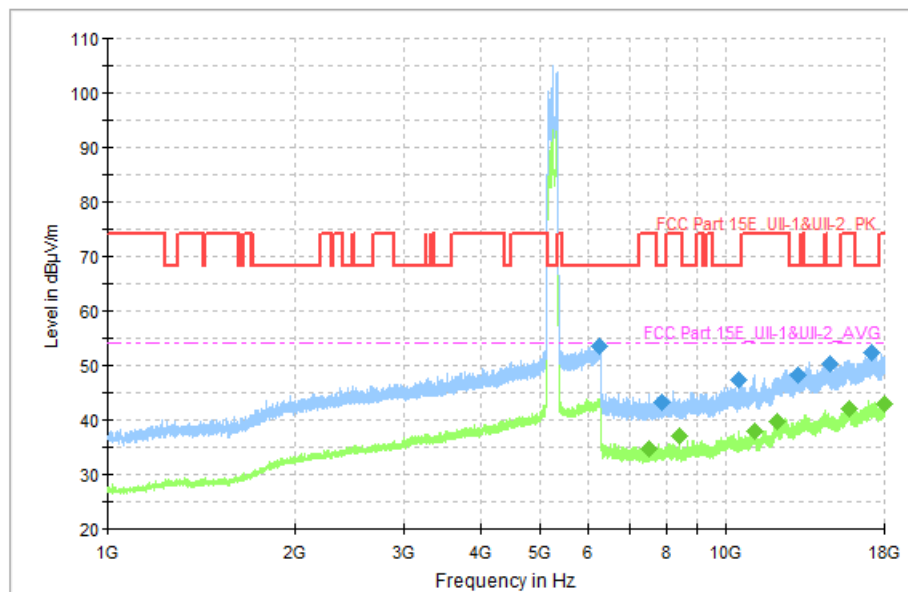


Fig. 50 Transmitter Spurious Emission (802.11a, CH48 5240MHz)

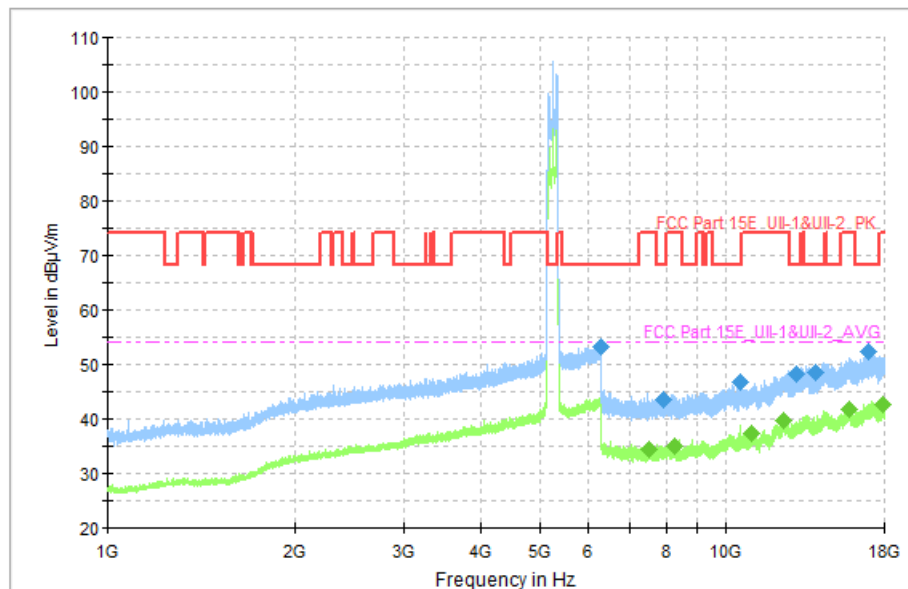


Fig. 51 Transmitter Spurious Emission (802.11a, CH52 5260MHz)

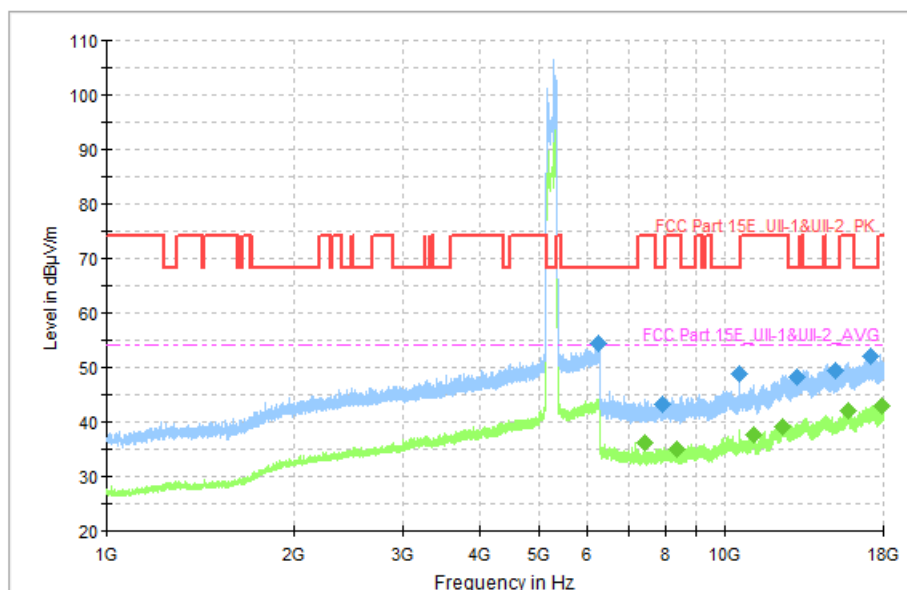


Fig. 52 Transmitter Spurious Emission (802.11a, CH56 5280MHz)

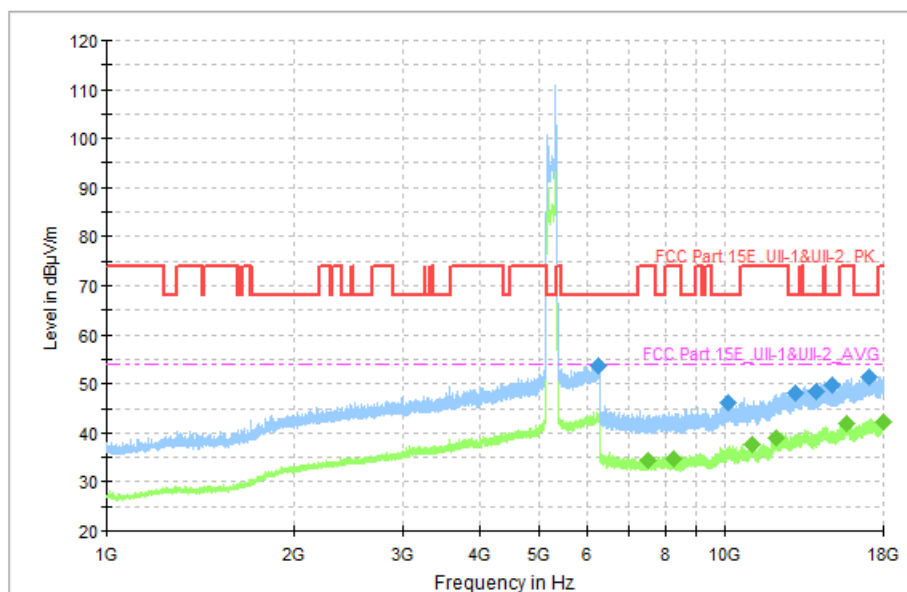


Fig. 53 Transmitter Spurious Emission (802.11a, CH64 5320MHz)

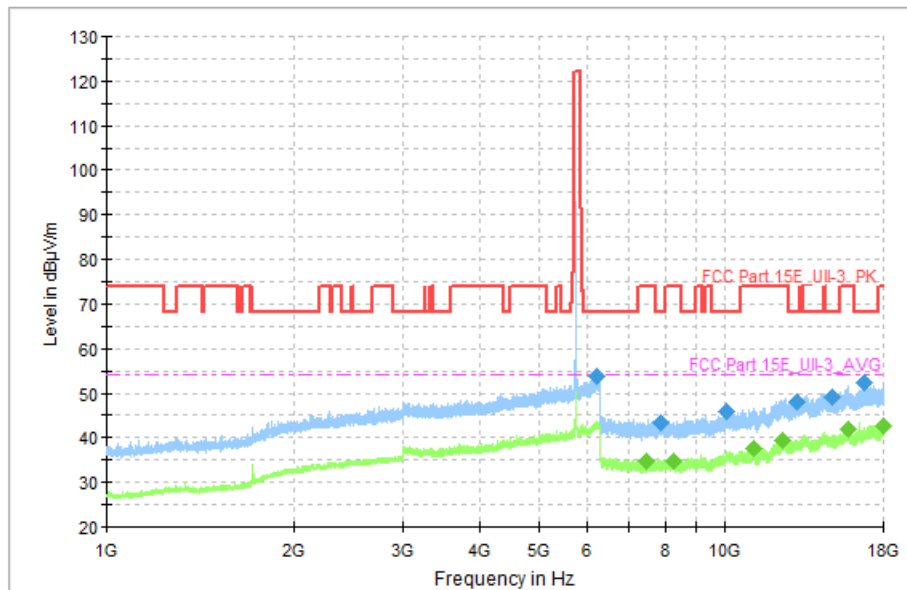


Fig. 54 Transmitter Spurious Emission (802. 11a, CH149 5745MHz)

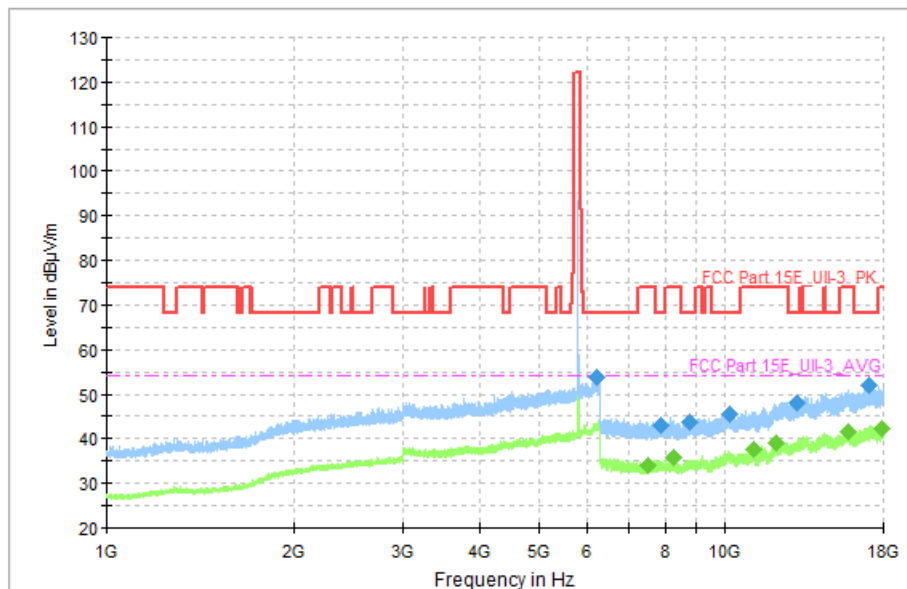


Fig. 55 Transmitter Spurious Emission (802. 11a, CH157 5785MHz)

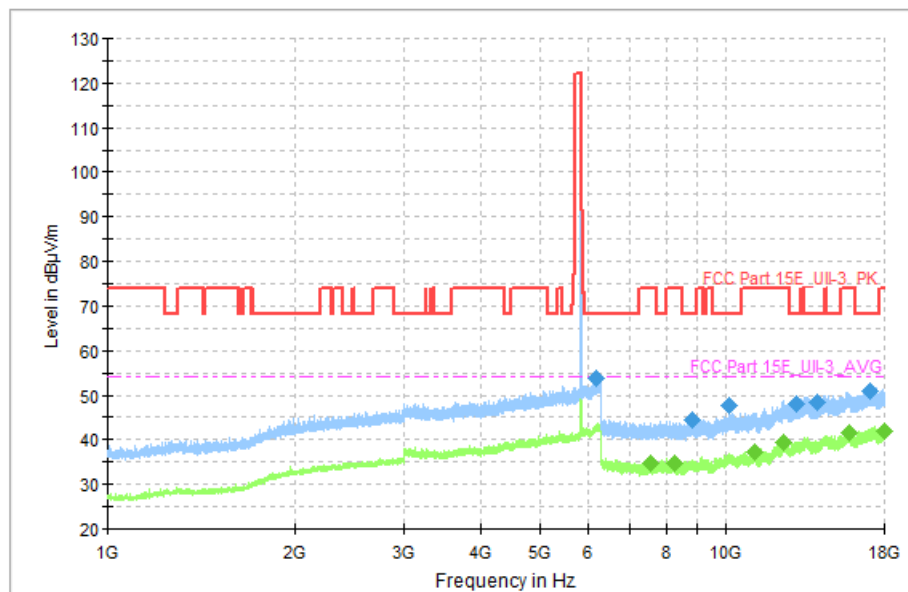


Fig. 56 Transmitter Spurious Emission (802.11a, CH165 5825MHz)

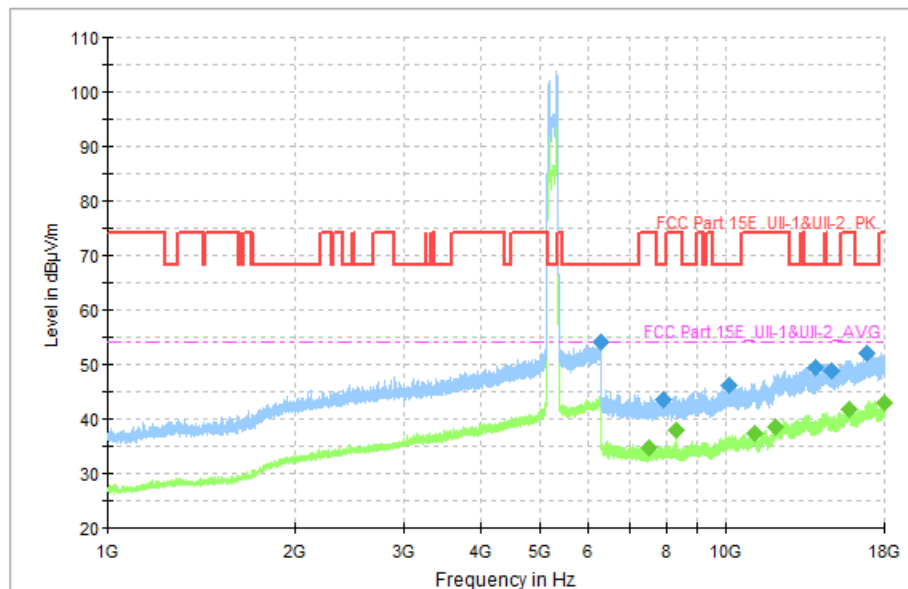


Fig. 57 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz)

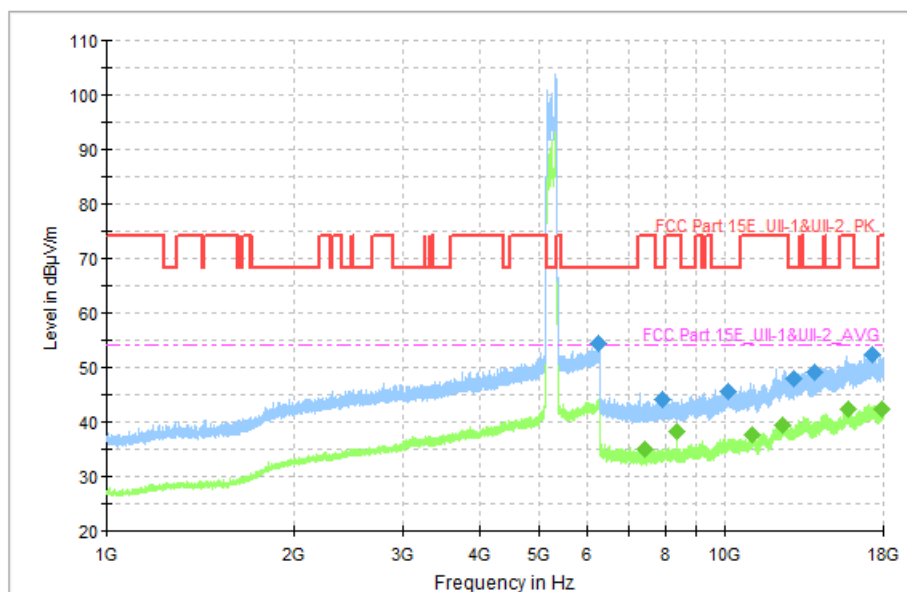


Fig. 58 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz)

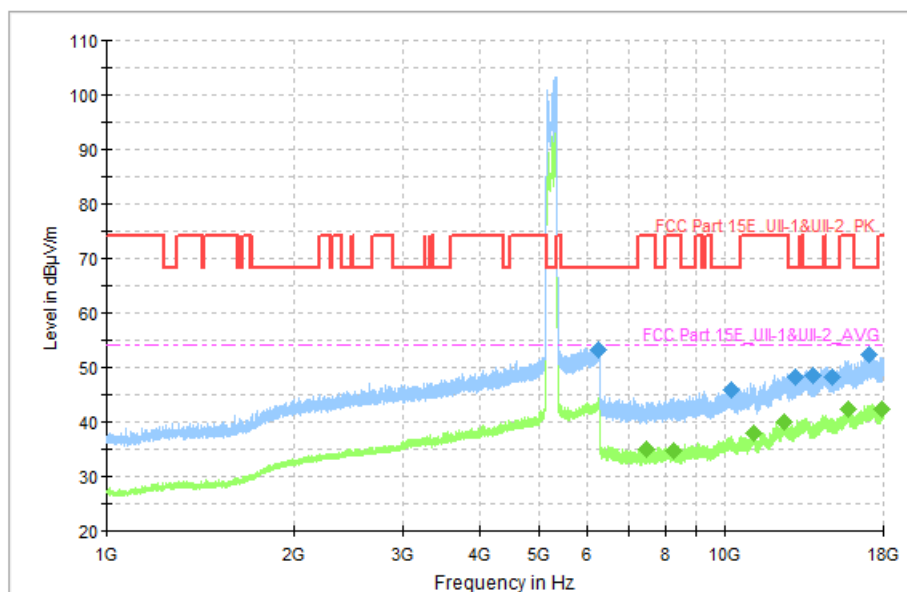


Fig. 59 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz)

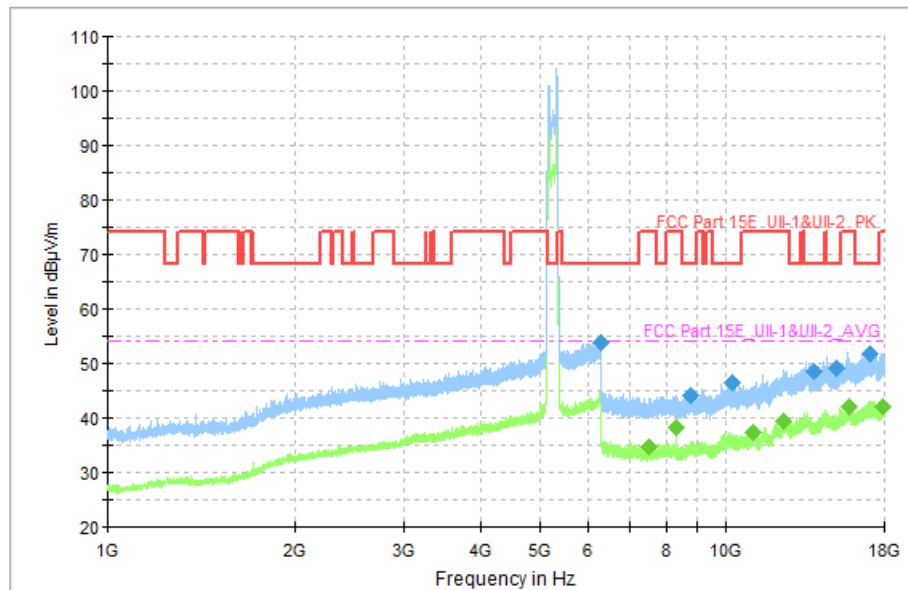


Fig. 60 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz)

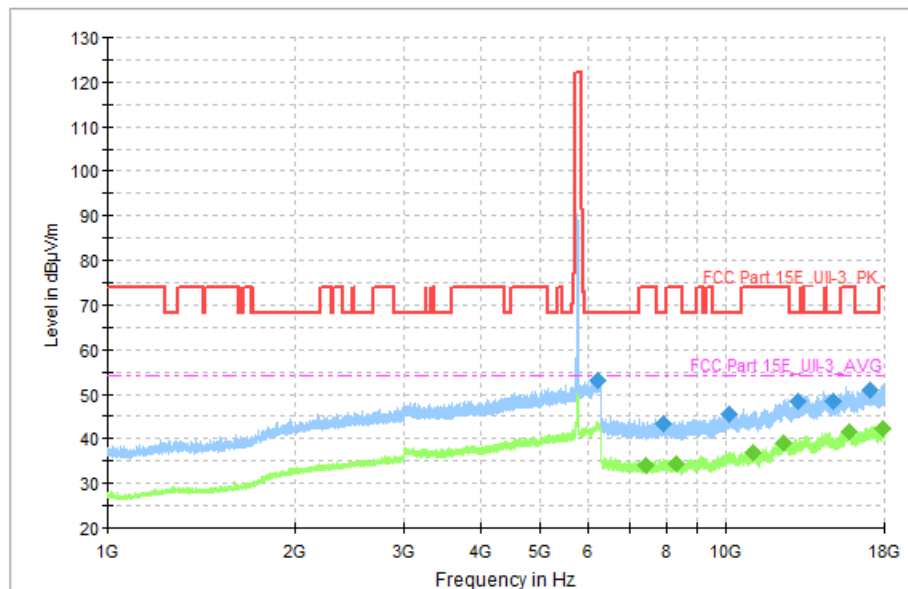


Fig. 61 Transmitter Spurious Emission (802. 11n-HT40, CH151 5755MHz)

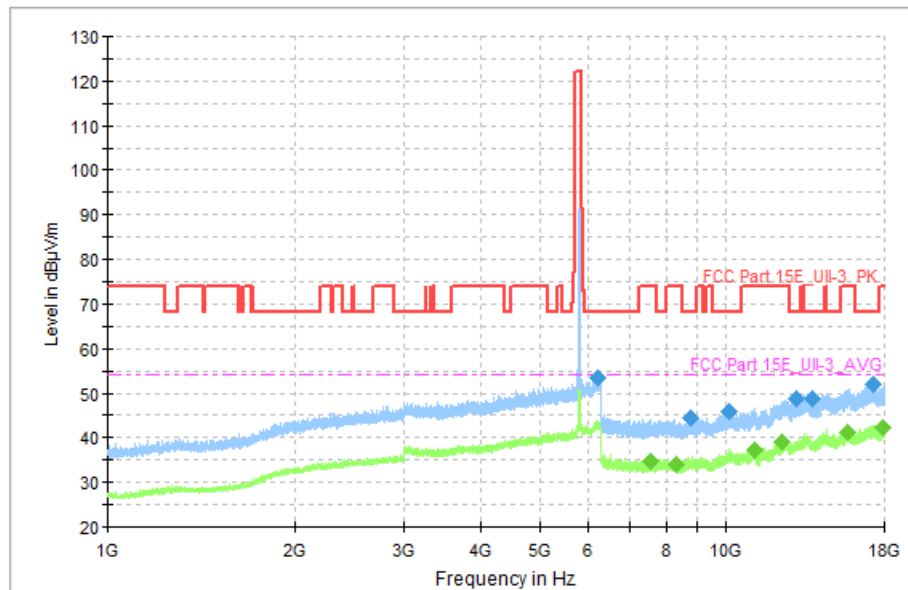


Fig. 62 Transmitter Spurious Emission (802. 11n-HT40, CH159 5795MHz)

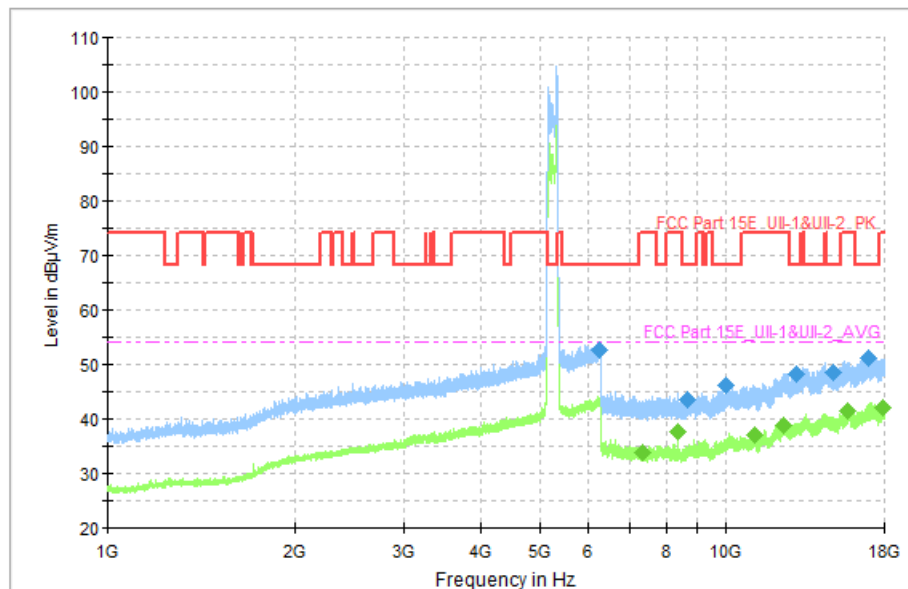


Fig. 63 Transmitter Spurious Emission (802. 11ac-VHT80, CH42 5210MHz)

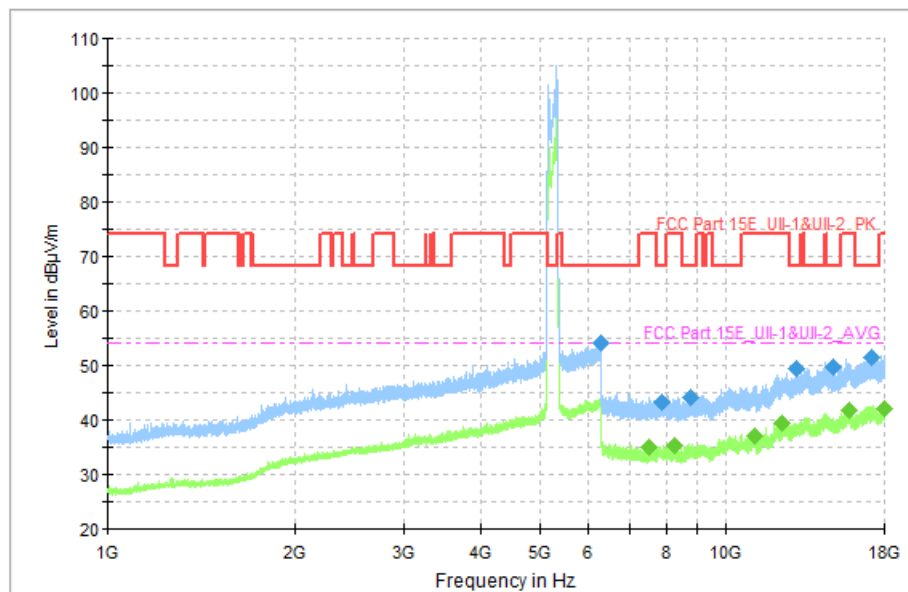


Fig. 64 Transmitter Spurious Emission (802. 11ac-VHT80, CH58 5290MHz)

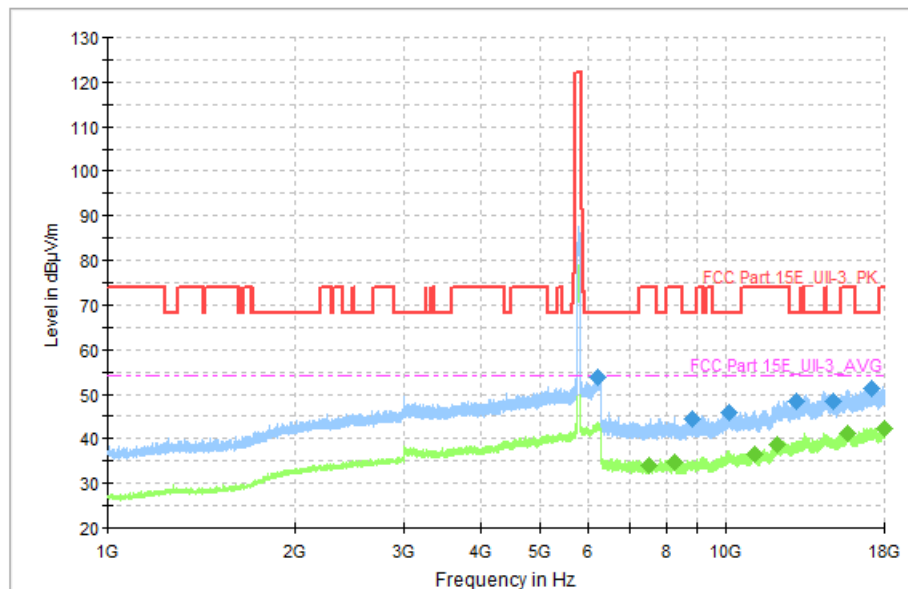


Fig. 65 Transmitter Spurious Emission (802. 11ac-VHT80, CH155 5775MHz)

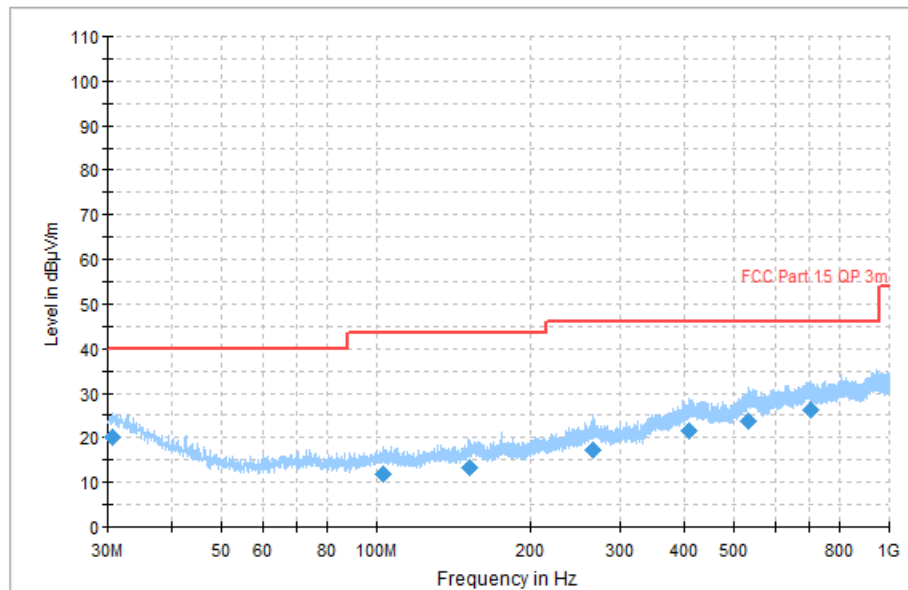


Fig. 66 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

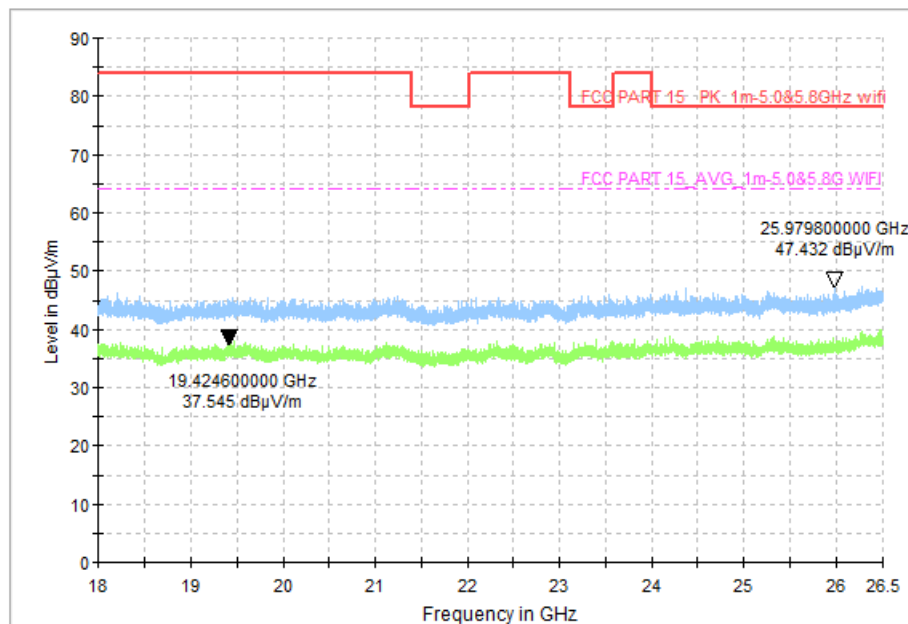


Fig. 67 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

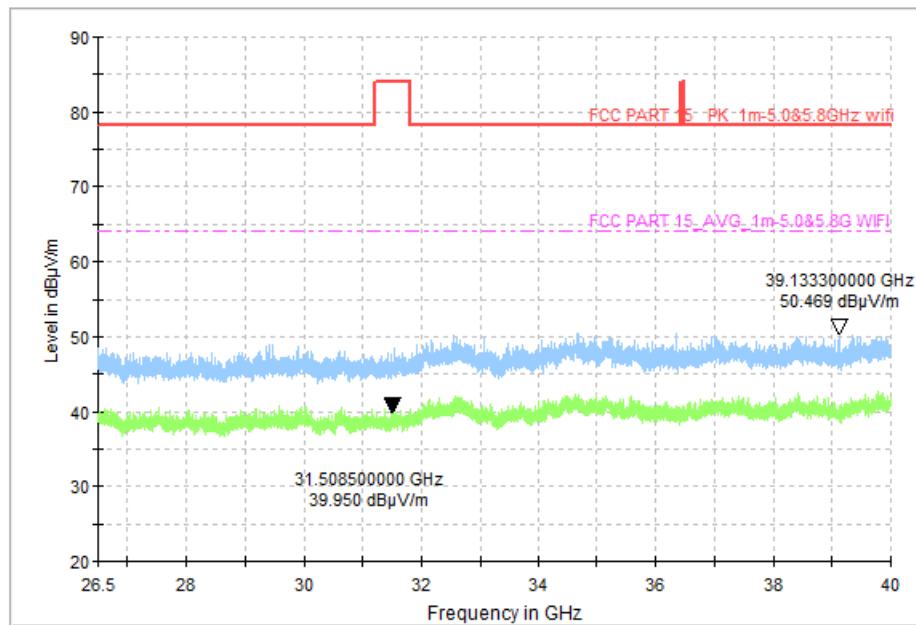


Fig. 68 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

Worst Case Result
802.11a CH36

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6219.000000	53.54	68.20	14.66	V	18.9
8844.525000	44.51	68.20	23.69	H	5.7
10355.437500	47.47	68.20	20.73	H	7.3
14214.312500	51.67	68.20	16.53	H	12.7
15073.562500	49.94	68.20	18.26	H	12.8
16823.562500	52.77	68.20	15.43	V	16.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7452.937500	34.92	54.00	19.08	V	5.2
8287.675000	39.73	54.00	14.27	V	6.1
10998.287500	38.08	54.00	15.92	V	8.2
12101.775000	39.59	54.00	14.41	H	10.9
15780.562500	42.35	54.00	11.65	V	14.5
17956.687500	43.08	54.00	10.92	V	16.5

802.11a CH64

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6233.000000	53.58	68.20	14.62	H	18.9
10119.475000	46.09	68.20	22.11	V	7.1
12969.187500	48.15	68.20	20.05	H	11.9
14027.500000	48.57	68.20	19.63	V	12.1
14868.812500	49.66	68.20	18.54	H	12.8
17076.875000	51.53	68.20	16.67	H	16.8

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7523.887500	34.35	54.00	19.65	H	5.3
8260.262500	34.79	54.00	19.21	V	6.2
11081.600000	37.61	54.00	16.39	V	8.4
12055.012500	38.87	54.00	15.13	H	10.7
15715.375000	41.80	54.00	12.20	H	14.3
17954.062500	42.18	54.00	11.82	H	16.5

802.11a CH157

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6198.000000	53.74	68.20	14.46	H	18.9
7871.650000	42.95	68.20	25.25	V	5.6
8748.850000	43.71	68.20	24.49	V	5.8
10153.337500	45.60	68.20	22.60	V	7.2
13092.125000	48.20	68.20	20.00	H	12.1
17037.062500	51.93	68.20	16.27	H	16.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7505.612500	34.19	54.00	19.81	H	5.3
8241.450000	35.64	54.00	18.36	H	6.2
11127.287500	37.44	54.00	16.56	V	8.5
12071.675000	39.10	54.00	14.90	H	10.8
15778.375000	41.45	54.00	12.55	H	14.5
17934.812500	42.39	54.00	11.61	H	16.6

802.11n HT40 CH38

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6287.000000	53.98	68.20	14.22	H	18.9
7932.387500	43.51	68.20	24.69	V	5.4
10130.762500	46.04	68.20	22.16	V	7.1
13943.500000	49.35	68.20	18.85	V	12.0
14834.687500	48.86	68.20	19.34	V	12.8
16835.375000	52.03	68.20	16.17	V	16.1

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7506.687500	34.76	54.00	19.24	H	5.3
8303.800000	38.01	54.00	15.99	V	6.1
11127.287500	37.32	54.00	16.68	H	8.5
12029.750000	38.54	54.00	15.46	V	10.6
15762.625000	41.81	54.00	12.19	V	14.5
17972.875000	42.98	54.00	11.02	H	16.5

802.11n HT40 CH62

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6269.500000	53.76	68.20	14.45	H	18.9
8740.250000	44.14	68.20	24.06	H	5.8
10252.775000	46.44	68.20	21.76	V	7.2
13847.687500	48.43	68.20	19.77	H	12.0
15058.687500	49.04	68.20	19.16	V	12.8
17020.000000	51.68	68.20	16.52	H	16.6

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7510.450000	34.70	54.00	19.30	V	5.3
8303.800000	38.34	54.00	15.66	V	6.1
11031.612500	37.39	54.00	16.61	V	8.3
12388.800000	39.34	54.00	14.66	V	11.4
15802.437500	42.13	54.00	11.87	V	14.6
17912.937500	42.13	54.00	11.87	H	16.6

802.11n HT40 CH159

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6205.000000	53.58	68.20	14.62	V	18.8
8773.037500	44.37	68.20	23.83	H	5.8
10138.825000	45.77	68.20	22.43	H	7.2
12974.000000	48.88	68.20	19.32	H	11.9
13800.875000	48.63	68.20	19.57	H	12.0
17289.062500	52.06	68.20	16.14	H	16.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7555.062500	34.67	54.00	19.33	V	5.4
8286.600000	34.08	54.00	19.92	H	6.1
11135.350000	37.43	54.00	16.57	V	8.5
12337.737500	38.91	54.00	15.09	V	11.4
15734.625000	41.26	54.00	12.74	V	14.3
17937.875000	42.22	54.00	11.78	V	16.6

802.11ac VHT80 CH42

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6248.000000	52.79	68.20	15.41	H	19.0
8672.525000	43.52	68.20	24.68	H	5.7
9994.237500	46.07	68.20	22.13	H	7.0
12961.750000	48.27	68.20	19.93	V	11.9
14914.312500	48.63	68.20	19.57	H	12.7
16979.750000	51.14	68.20	17.06	H	16.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7321.787500	33.72	54.00	20.28	H	5.2
8335.512500	37.70	54.00	16.30	V	6.0
11107.937500	37.07	54.00	16.93	V	8.5
12347.412500	38.92	54.00	15.08	H	11.4
15701.812500	41.56	54.00	12.44	V	14.2
17894.562500	42.02	54.00	11.98	H	16.6

802.11ac VHT80 CH58

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6265.500000	54.21	68.20	13.99	H	18.9
7861.437500	43.13	68.20	25.07	V	5.6
8745.087500	44.08	68.20	24.12	V	5.8
13010.312500	49.39	68.20	18.81	V	12.0
14858.312500	49.56	68.20	18.64	V	12.8
17207.687500	51.56	68.20	16.64	V	17.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7502.925000	35.11	54.00	18.89	V	5.3
8280.150000	35.42	54.00	18.58	V	6.1
11128.362500	37.18	54.00	16.82	H	8.5
12336.125000	39.38	54.00	14.62	V	11.4
15794.125000	41.74	54.00	12.26	H	14.6
17948.812500	41.91	54.00	12.09	H	16.5

802.11ac VHT80 CH155

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6191.000000	53.78	68.20	14.42	V	18.9
8820.875000	44.31	68.20	23.89	H	5.7
10102.812500	45.80	68.20	22.40	V	7.1
13011.187500	48.38	68.20	19.82	V	12.0
14902.500000	48.50	68.20	19.70	V	12.7
17176.187500	51.34	68.20	16.86	H	17.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7528.725000	34.20	54.00	19.80	H	5.4
8250.587500	34.88	54.00	19.12	V	6.2
11091.812500	36.58	54.00	17.42	V	8.4
12092.100000	38.79	54.00	15.21	H	10.9
15710.125000	41.17	54.00	12.83	H	14.2
17975.500000	42.30	54.00	11.70	V	16.5

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

A.9. Radiated Spurious Emissions < 30MHz

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

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

The measurement is made according to KDB 789033.

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

Measurement Result:

Channel	Frequency Range	Test Results	Conclusion
All Channel	9 kHz ~ 30 MHz	Fig.69	P

Conclusion: PASS

Test graphs as below:

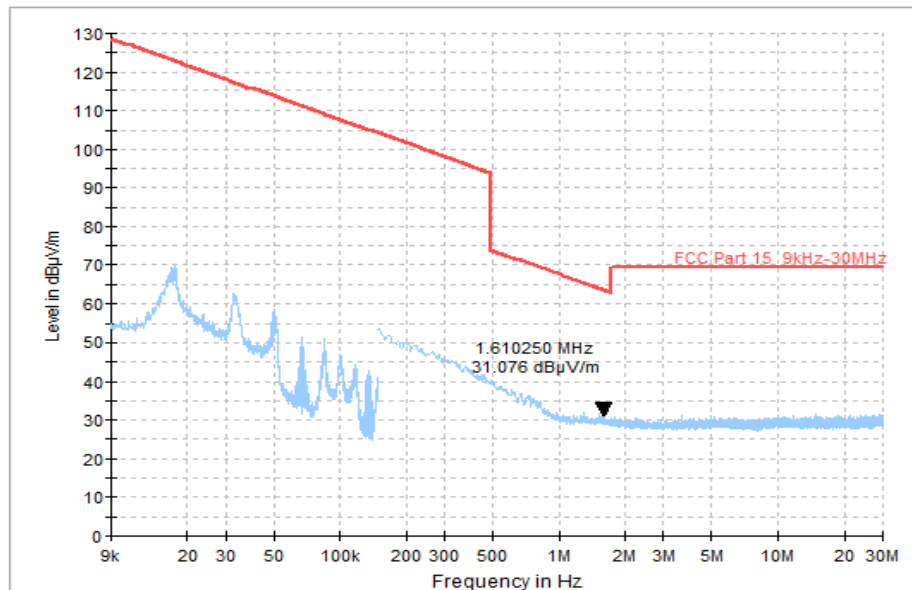


Fig. 69 Radiated Spurious Emission (All Channel, 9 kHz ~ 30 MHz)

A.10. AC Power Line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

RLAN (Quasi-peak Limit) - AE3

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.70	Fig.71	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

RLAN (Average Limit) - AE3

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.52	Fig.53	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

RLAN (Quasi-peak Limit) - AE4

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.72	Fig.73	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

RLAN (Average Limit) - AE4

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.54	Fig.55	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.



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

Conclusion: PASS

Test graphs as below:

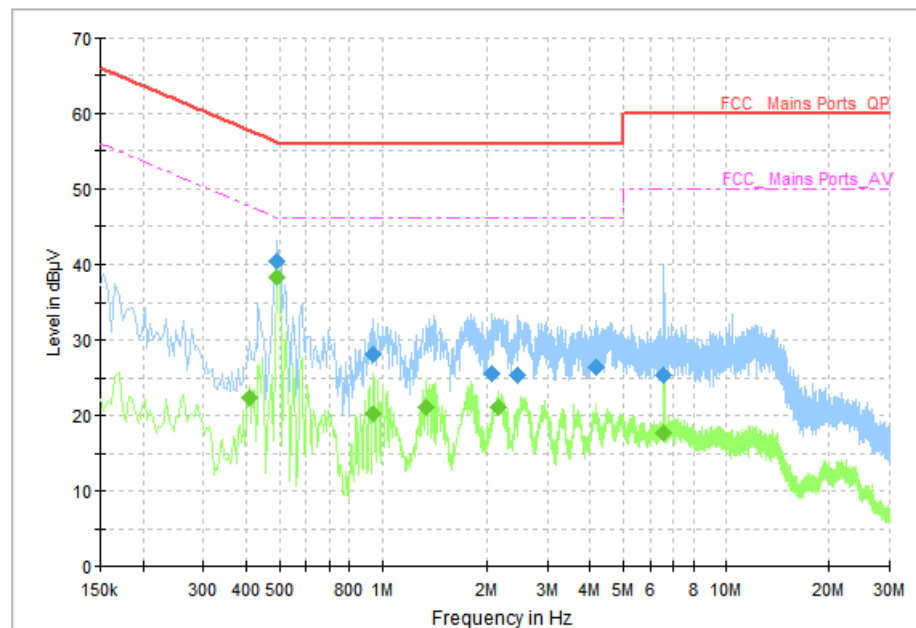


Fig. 70 AC Power line Conducted Emission (Traffic)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.494000	40.33	56.10	15.77	L1	ON	10
0.942000	28.09	56.00	27.91	L1	ON	10
2.066000	25.70	56.00	30.30	L1	ON	10
2.466000	25.42	56.00	30.58	L1	ON	10
4.174000	26.45	56.00	29.55	L1	ON	10
6.582000	25.44	60.00	34.56	L1	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.410000	22.48	47.65	25.17	L1	ON	10
0.494000	38.17	46.10	7.93	L1	ON	10
0.942000	20.19	46.00	25.81	L1	ON	10
1.346000	21.10	46.00	24.90	L1	ON	10
2.162000	21.04	46.00	24.96	L1	ON	10
6.582000	17.82	50.00	32.18	L1	ON	10

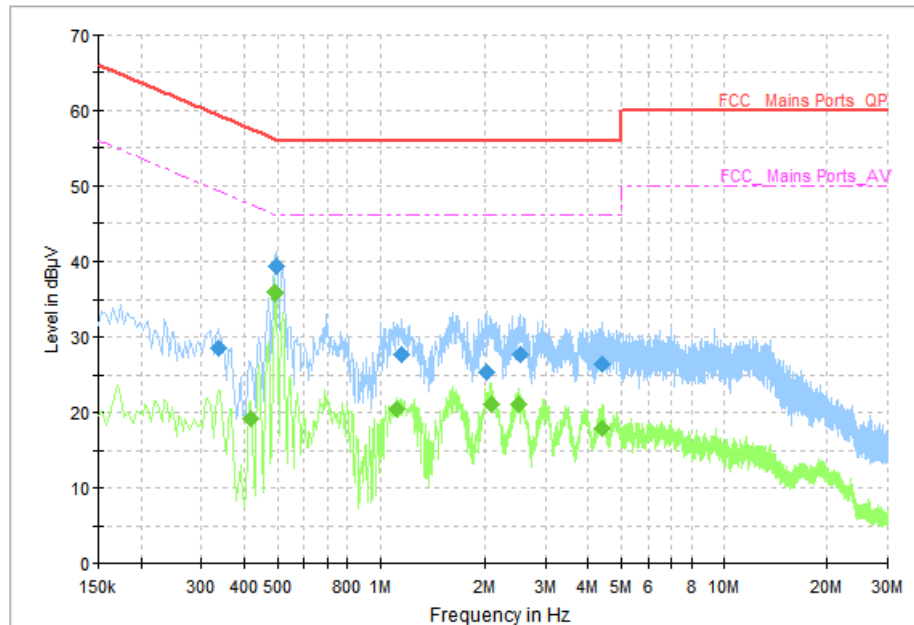


Fig. 71 AC Power line Conducted Emission (Idle)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.338000	28.57	59.25	30.68	L1	ON	10
0.498000	39.21	56.03	16.82	L1	ON	10
1.150000	27.85	56.00	28.15	L1	ON	10
2.022000	25.40	56.00	30.60	L1	ON	10
2.542000	27.80	56.00	28.20	L1	ON	10
4.394000	26.42	56.00	29.58	L1	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.418000	19.28	47.49	28.21	L1	ON	10
0.494000	35.86	46.10	10.24	L1	ON	10
1.122000	20.40	46.00	25.60	L1	ON	10
2.094000	21.09	46.00	24.91	L1	ON	10
2.510000	21.06	46.00	24.95	L1	ON	10
4.386000	17.85	46.00	28.15	L1	ON	10

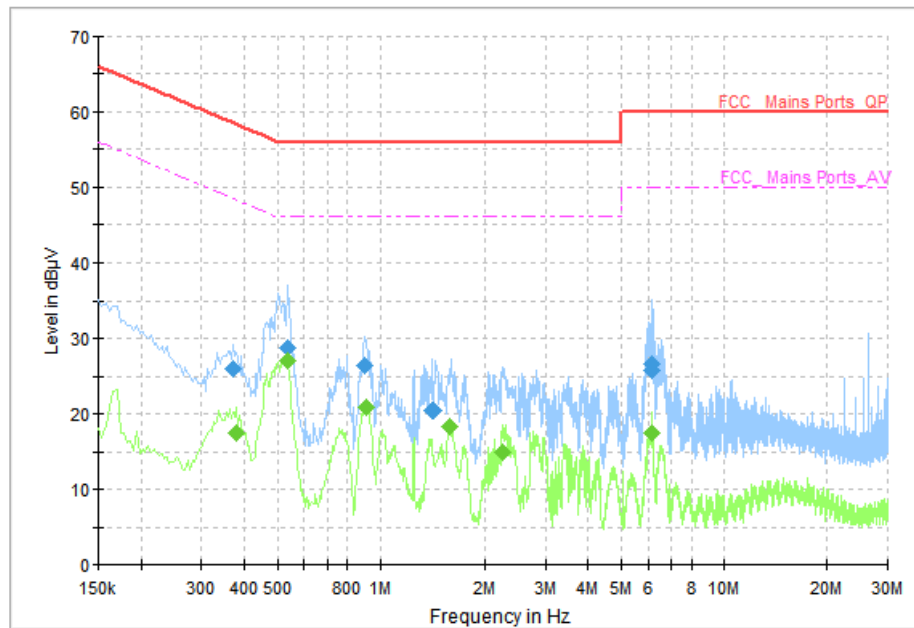


Fig. 72 AC Power line Conducted Emission (Traffic)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.370000	26.05	58.50	32.45	L1	ON	10
0.534000	28.73	56.00	27.27	L1	ON	10
0.898000	26.37	56.00	29.63	L1	ON	10
1.422000	20.44	56.00	35.56	L1	ON	10
6.110000	26.75	60.00	33.25	L1	ON	10
6.150000	25.82	60.00	34.18	L1	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.378000	17.41	48.32	30.91	N	ON	10
0.534000	27.17	46.00	18.83	N	ON	10
0.914000	20.87	46.00	25.13	N	ON	10
1.574000	18.38	46.00	27.62	N	ON	10
2.258000	15.03	46.00	30.97	N	ON	10
6.150000	17.44	50.00	32.56	L1	ON	10

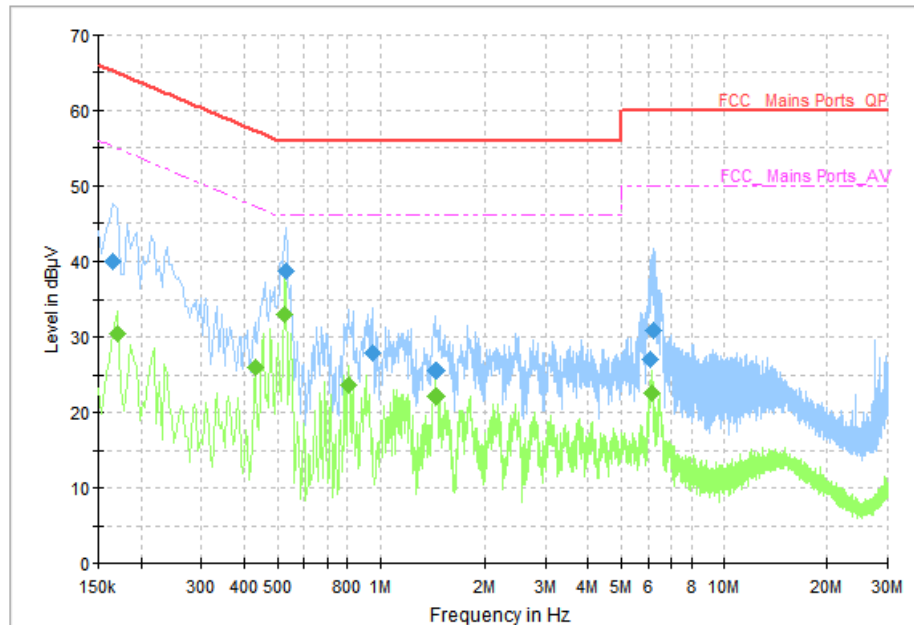


Fig. 73 AC Power line Conducted Emission (Idle)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.166000	39.86	65.16	25.30	N	ON	10
0.530000	38.56	56.00	17.44	L1	ON	10
0.950000	27.95	56.00	28.05	L1	ON	10
1.450000	25.62	56.00	30.38	L1	ON	10
6.106000	27.18	60.00	32.82	L1	ON	10
6.186000	31.00	60.00	29.00	L1	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170000	30.56	54.96	24.40	N	ON	10
0.430000	26.02	47.25	21.23	N	ON	10
0.526000	33.08	46.00	12.92	N	ON	10
0.810000	23.62	46.00	22.38	N	ON	10
1.450000	22.14	46.00	23.86	N	ON	10
6.166000	22.69	50.00	27.31	L1	ON	10

A.11. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Measurement Condition:

T min = -10°C T nom = 25°C T max = 55°C
V min = 3.6V V nom = 3.9V V max = 4.3V

Measurement Result:

Mode	Channel	Condition		Frequency	Conclusion
802.11a	5180 MHz (CH36)	T nom	V nom	5179.9831	P
		T max	V nom	5179.9853	P
		T min	V nom	5179.9845	P
		T nom	V max	5179.9831	P
		T nom	V min	5179.9773	P
802.11n HT40	5190 MHz (CH38)	T nom	V nom	5189.9131	P
		T max	V nom	5189.9638	P
		T min	V nom	5189.9684	P
		T nom	V max	5189.9658	P
		T nom	V min	5189.9652	P
802.11ac VHT80	5210 MHz (CH42)	T nom	V nom	5209.9831	P
		T max	V nom	5209.9752	P
		T min	V nom	5209.9754	P
		T nom	V max	5209.9842	P
		T nom	V min	5209.9753	P

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 BODY ***