



# TEST REPORT

No. I21N04177-RLAN

**TCL Communication Ltd.**

**Tablet PC**

**Model Name: 9160G**

**with**

**Hardware Version: 05**

**Software Version:DT1A**

**FCC ID: 2ACCJB174**

**Issued Date: 2022-03-11**

**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	9160G
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:	2022-02-04
Testing End Date:	2022-02-24

### 1.6. Signature

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Ma Rui

(Prepared this test report)

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An Ran

(Reviewed this test report)

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Zhang Bojun

(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
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### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
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Contact Person: Peter yang  
E-Mail: peter.yang@tcl.com  
Telephone: +86 755 3664 5759  
FAX: 0086-755-36612000-81722



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

#### **3.1. About EUT**

Description	Tablet PC
Model Name	9160G
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	0.49 dBi
Power Supply	3.85V DC by Battery
FCC ID	2ACCJB174
Condition of EUT as received	No abnormality in appearance

#### **3.2. Internal Identification of EUT**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>	<b>Receive Date</b>
UT08aa	/	05	DT1A	2022-02-04
UT01aa	/	05	DT1A	2022-02-10
UT02aa	/	05	DT1A	2022-02-10

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

\*UT08aa is used for Conduction test; UT01aa and UT02aa are used for Radiation test and AC Power line Conducted Emission test.

#### **3.3. Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/

\*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.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
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	<b>P</b>
2	Power Spectral Density	15.407	<b>P</b>
3	Occupied 26dB Bandwidth	15.403	<b>P</b>
4	Occupied 6dB Bandwidth	15.407	<b>P</b>
5	99% Occupied Bandwidth	15.403	<b>P</b>
6	Band edge compliance	15.209	<b>P</b>
7	Transmitter Spurious Emissions	15.407, 15.205	<b>P</b>
8	AC Power line Conducted	15.107, 15.207	<b>P</b>
9	Transmit Power Control	15.407	<b>NA</b>

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

### 5.3. Statements

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

Disclaimer:

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

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

## 6. Test Equipments Utilized

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2022-12-29	1 year
2	Power Sensor	U2021XA	MY55430013	Keysight	2022-12-29	1 year
3	Data Acquisition	U2531A	TW55443507	Keysight	/	/

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	LISN	ESH2-Z5	100196	R&S	2022-12-31	1 year
2	Test Receiver	ESCI	100701	R&S	2022-08-04	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	2025-03-03	3 year
6	Test Receiver	ESR7	101675	R&S	2022-07-16	1 year
7	Spectrum Analyzer	FSP 40	100378	R&S	2022-12-10	1 year
8	Chamber	FACT5-2.0	4166	ETS-Lindgren	2024-05-11	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	2024-01-19	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	< 4Ω
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	< 4Ω

### 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

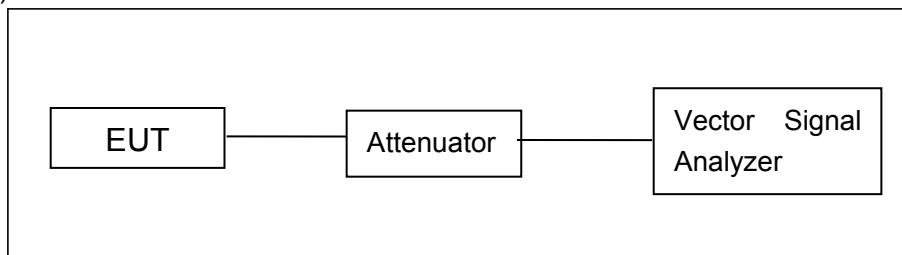
Test Name	Uncertainty ( $k=2$ )	
1. RF Output Power - Conducted	1.32dB	
2. Power Spectral Density - Conducted	2.32dB	
3. Occupied channel bandwidth - Conducted	66Hz	
4. Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f < 1\text{GHz}$	1.41dB
	$1\text{GHz} \leq f < 7\text{GHz}$	1.92dB
	$7\text{GHz} \leq f < 13\text{GHz}$	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.

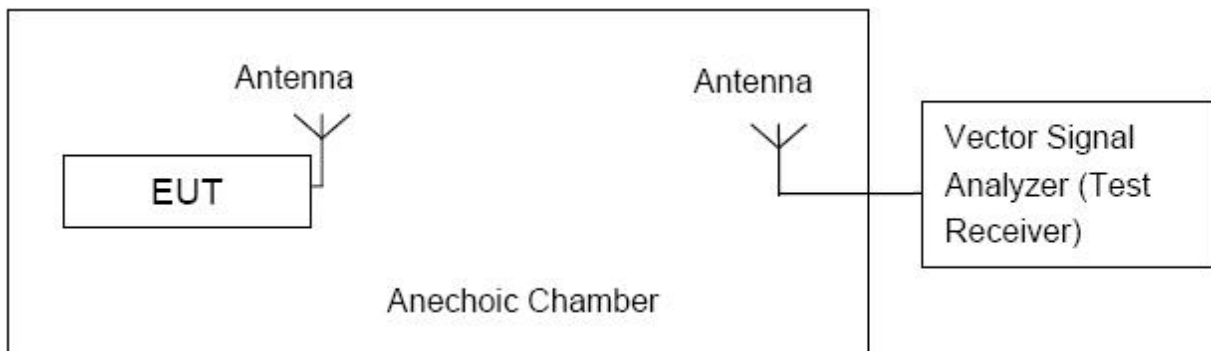


#### Radiated Emission Measurements

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)	16.68	16.64	16.60	16.57	16.61	16.60	16.55	16.51
	5200MHz(Ch40)	16.77	/	/	/	/	/	/	/
	5240MHz(Ch48)	16.69	/	/	/	/	/	/	/
	5260MHz(Ch52)	16.75	/	/	/	/	/	/	/
	5280MHz(Ch56)	16.81	/	/	/	/	/	/	/
	5320MHz(Ch64)	16.77	/	/	/	/	/	/	/
	5745MHz(Ch149)	16.55	/	/	/	/	/	/	/
	5785MHz(Ch157)	16.53	/	/	/	/	/	/	/
	5825MHz(Ch165)	16.51	/	/	/	/	/	/	/

#### 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)	16.67	16.61	16.55	16.57	16.65	16.60	16.52	16.55
	5200MHz(Ch40)	16.62	/	/	/	/	/	/	/
	5240MHz(Ch48)	16.67	/	/	/	/	/	/	/
	5260MHz(Ch52)	16.61	/	/	/	/	/	/	/
	5280MHz(Ch56)	16.52	/	/	/	/	/	/	/
	5320MHz(Ch64)	16.60	/	/	/	/	/	/	/
	5745MHz(Ch149)	16.24	/	/	/	/	/	/	/
	5785MHz(Ch157)	16.32	/	/	/	/	/	/	/
	5825MHz(Ch165)	16.27	/	/	/	/	/	/	/



**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)	14.61	14.56	13.58	13.50	13.52	13.60	12.54	12.59
	5200MHz(Ch40)	14.79	/	/	/	/	/	/	/
	5240MHz(Ch48)	14.76	/	/	/	/	/	/	/
	5260MHz(Ch52)	14.73	/	/	/	/	/	/	/
	5280MHz(Ch56)	14.84	/	/	/	/	/	/	/
	5320MHz(Ch64)	14.82	/	/	/	/	/	/	/
	5745MHz(Ch149)	14.57	/	/	/	/	/	/	/
	5785MHz(Ch157)	14.57	/	/	/	/	/	/	/
5825MHz(Ch165)	14.48	/	/	/	/	/	/	/	

**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)	14.20	14.11	13.09	13.12	13.06	13.18	13.09	13.11
	5230MHz(Ch46)	14.32	/	/	/	/	/	/	/
	5270MHz(Ch54)	14.30	/	/	/	/	/	/	/
	5310MHz(Ch62)	14.29	/	/	/	/	/	/	/
	5755MHz(Ch151)	13.84	/	/	/	/	/	/	/
	5795MHz(Ch159)	13.80	/	/	/	/	/	/	/

**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)	14.40	14.30	13.25	13.22	13.17	13.27	12.29	12.24
	5230MHz(Ch46)	14.53	/	/	/	/	/	/	/
	5270MHz(Ch54)	14.53	/	/	/	/	/	/	/
	5310MHz(Ch62)	14.54	/	/	/	/	/	/	/
	5755MHz(Ch151)	14.26	/	/	/	/	/	/	/
	5795MHz(Ch159)	14.29	/	/	/	/	/	/	/

**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)	14.49	14.42	13.38	13.33	13.27	13.30	12.28	12.21
	5290MHz(Ch58)	14.53	/	/	/	/	/	/	/
	5775MHz(Ch155)	14.35	/	/	/	/	/	/	/



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Note: The data rate 6Mbps (11a mode), MCS0 (11n mode) and MCS0 (11ac mode) are selected as the worst case. 802.11a, 802.11ac-VHT40 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)	7.16	P
	5200MHz(Ch40)	7.14	P
	5240MHz(Ch48)	6.74	P
802.11ac VHT40	5190MHz(Ch38)	3.24	P
	5230MHz(Ch46)	3.57	P
802.11ac VHT80	5210MHz(Ch42)	0.51	P

##### 5.3GHz Band (UNII-2A)

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5260MHz(Ch52)	7.09	P
	5280MHz(Ch56)	7.50	P
	5320MHz(Ch64)	6.85	P
802.11ac VHT40	5270MHz(Ch54)	3.86	P
	5310MHz(Ch62)	3.23	P
802.11ac VHT80	5290MHz(Ch58)	0.88	P

##### 5.8GHz Band (UNII-3)

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	5745MHz(CH149)	4.80	P
	5785MHz(CH157)	4.63	P
	5825MHz(CH165)	5.05	P
802.11ac VHT40	5755MHz(CH151)	2.26	P
	5795MHz(CH159)	2.24	P
802.11ac VHT80	5775MHz(CH155)	-1.28	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	28.75	P
	5200MHz(Ch40)	Fig.2	31.90	P
	5240MHz(Ch48)	Fig.3	29.75	P
	5260MHz(Ch52)	Fig.4	28.10	P
	5280MHz(Ch56)	Fig.5	25.95	P
	5320MHz(Ch64)	Fig.6	31.05	P
802.11ac VHT40	5190MHz(Ch38)	Fig.7	41.04	P
	5230MHz(Ch46)	Fig.8	48.00	P
	5270MHz(Ch54)	Fig.9	41.60	P
	5310MHz(Ch62)	Fig.10	53.36	P
802.11ac VHT80	5210MHz(Ch42)	Fig.11	101.12	P
	5290MHz(Ch58)	Fig.12	109.76	P

**Conclusion: PASS**

**Test graphs as below:**



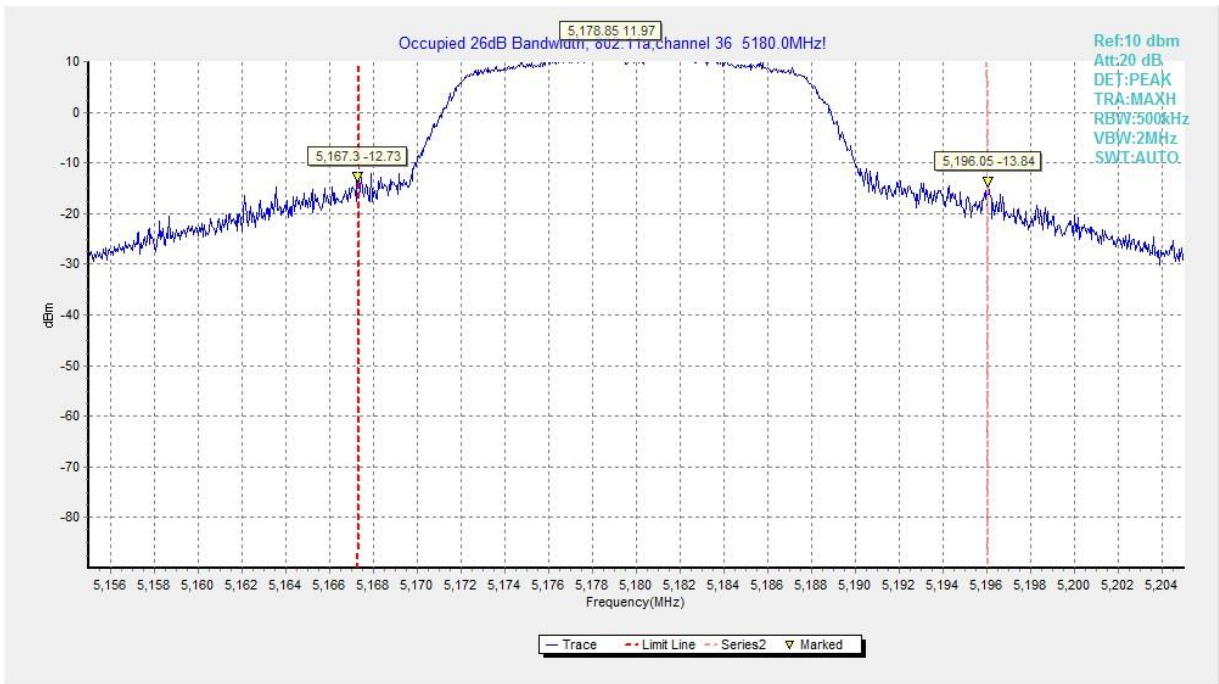


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)



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

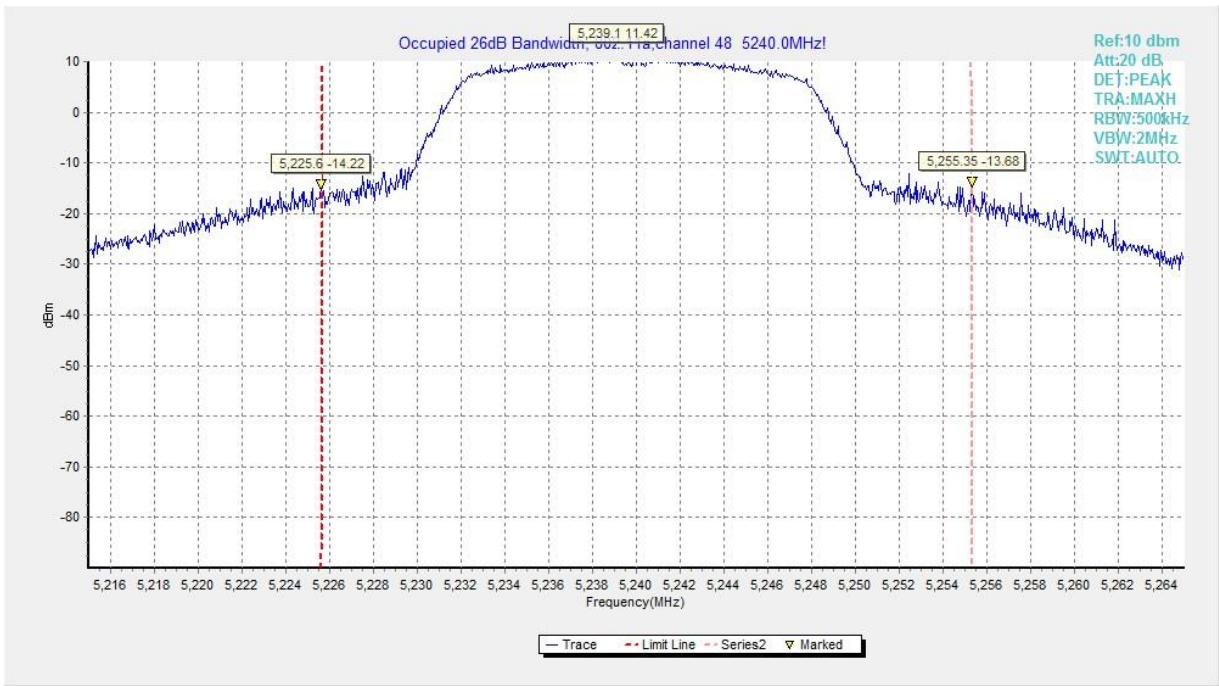


Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

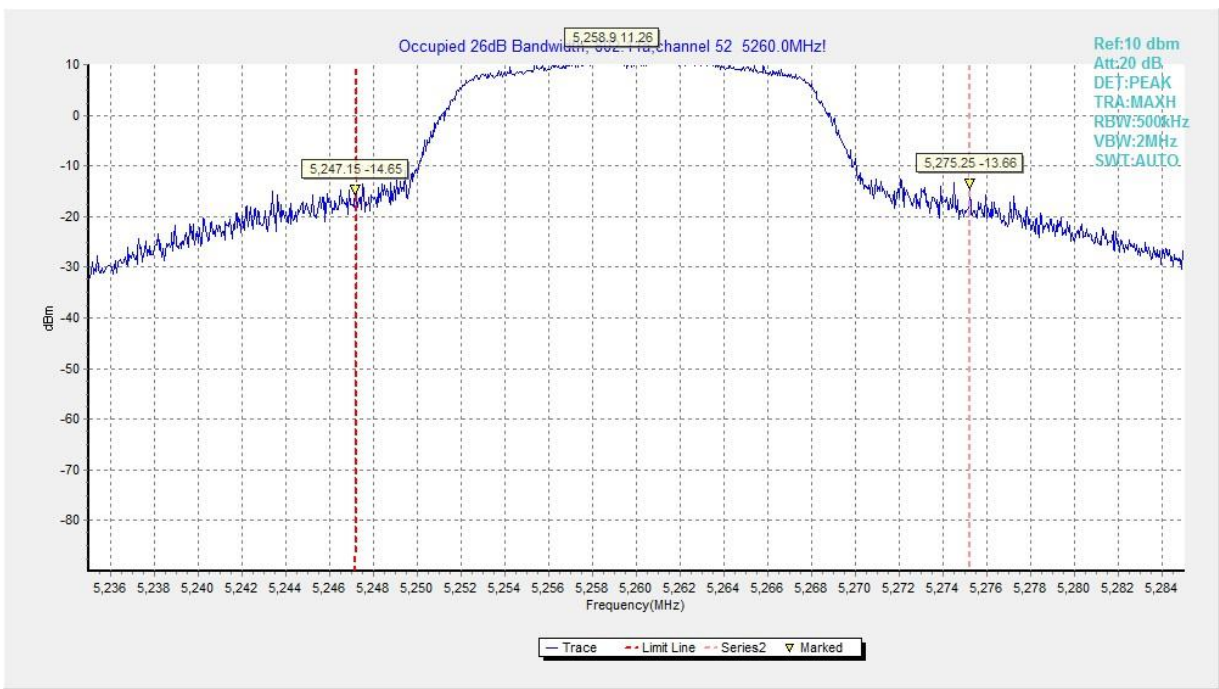


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

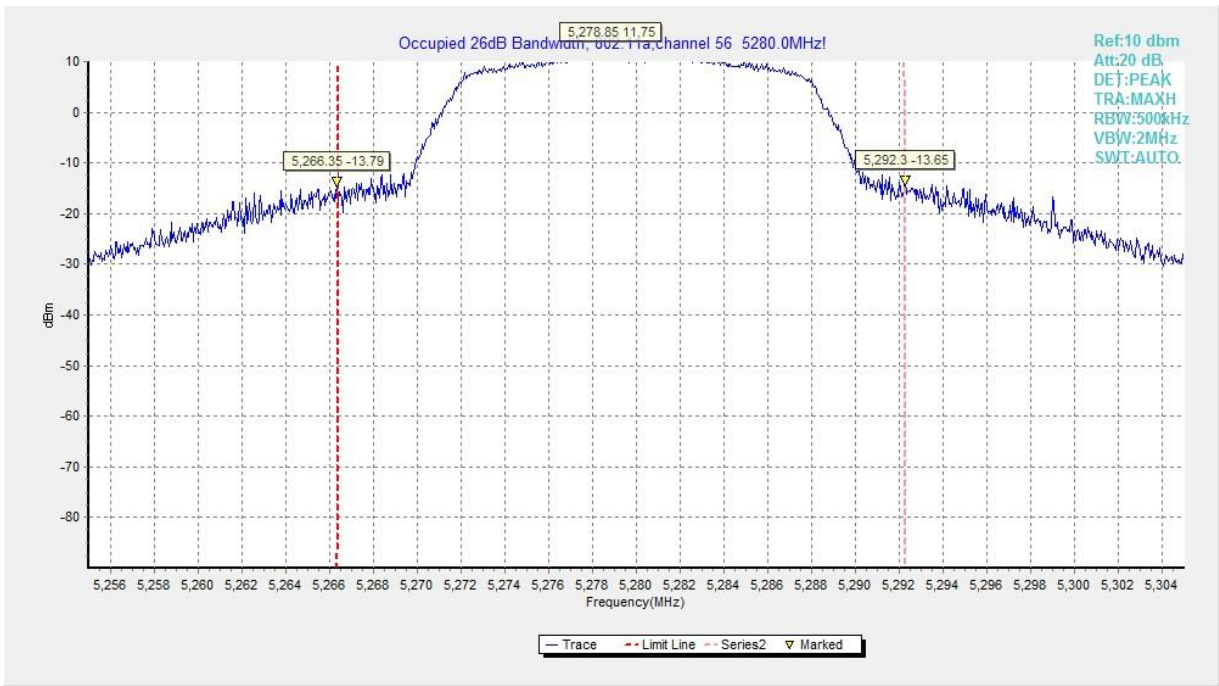


Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

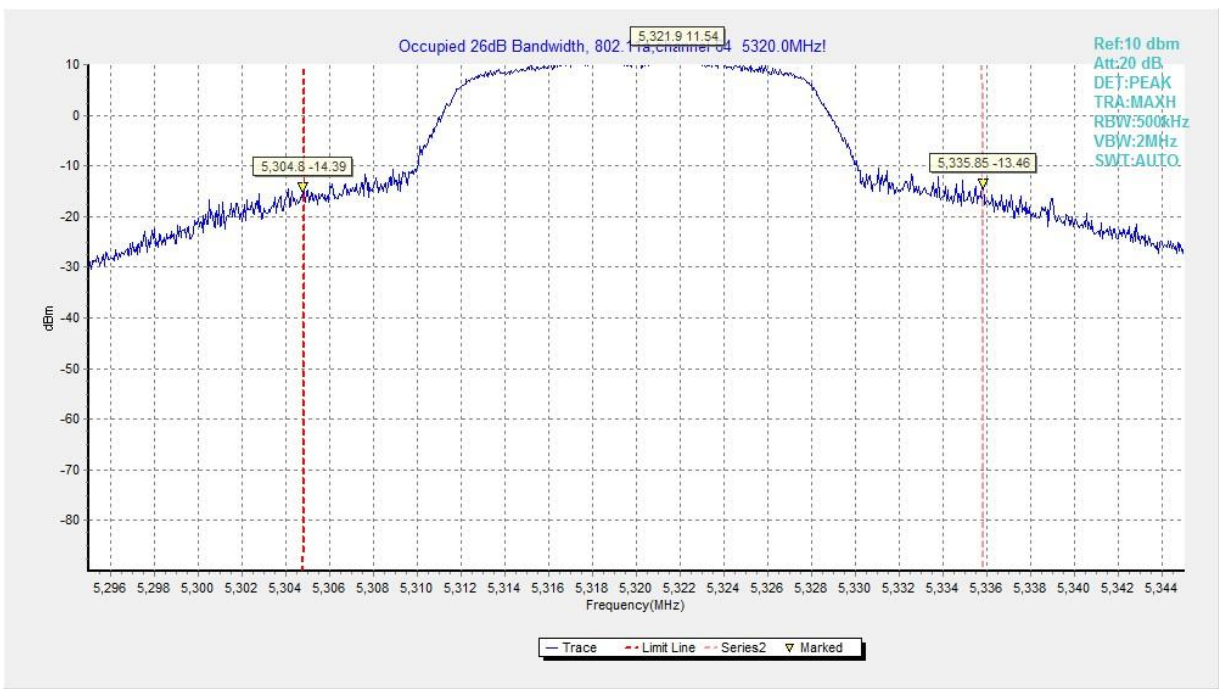


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

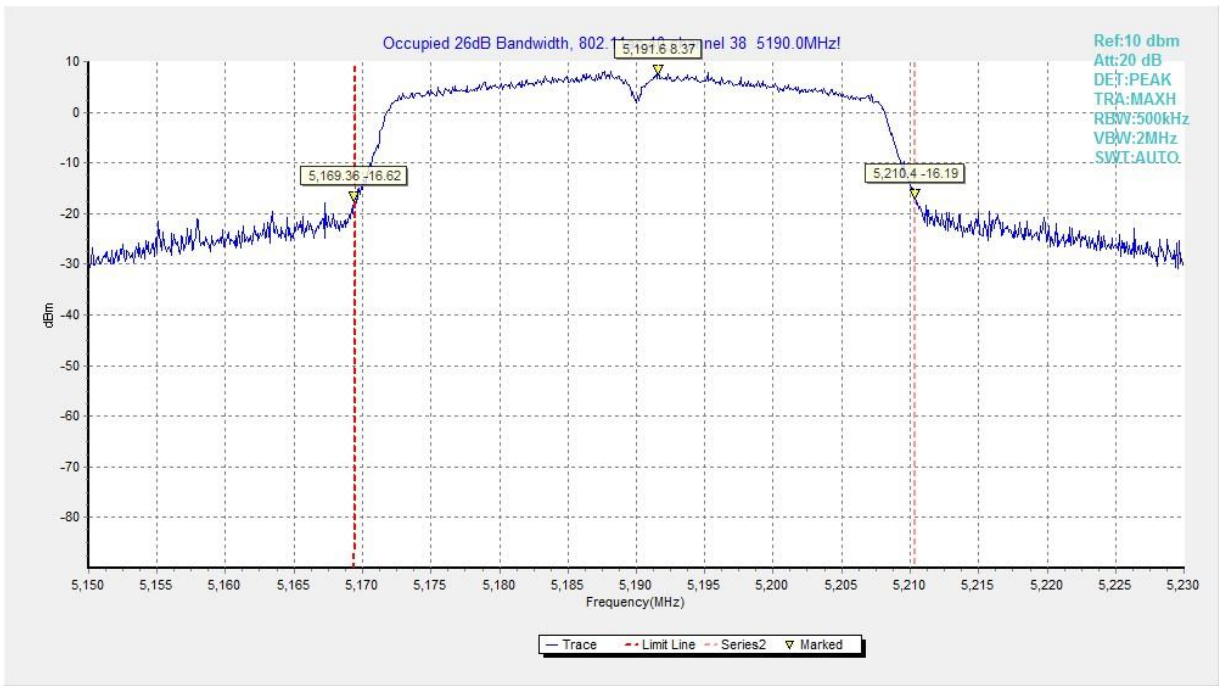


Fig. 7 Occupied 26dB Bandwidth (802.11ac-VHT40, 5190MHz)

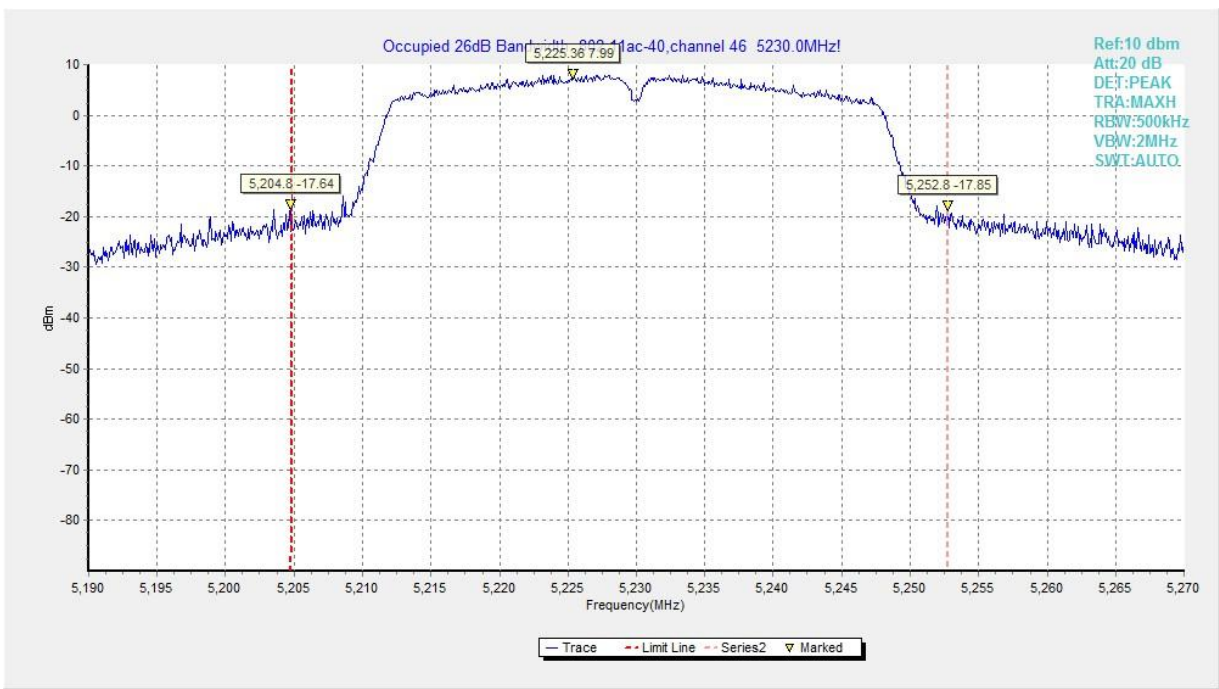


Fig. 8 Occupied 26dB Bandwidth (802.11ac-VHT40, 5230MHz)

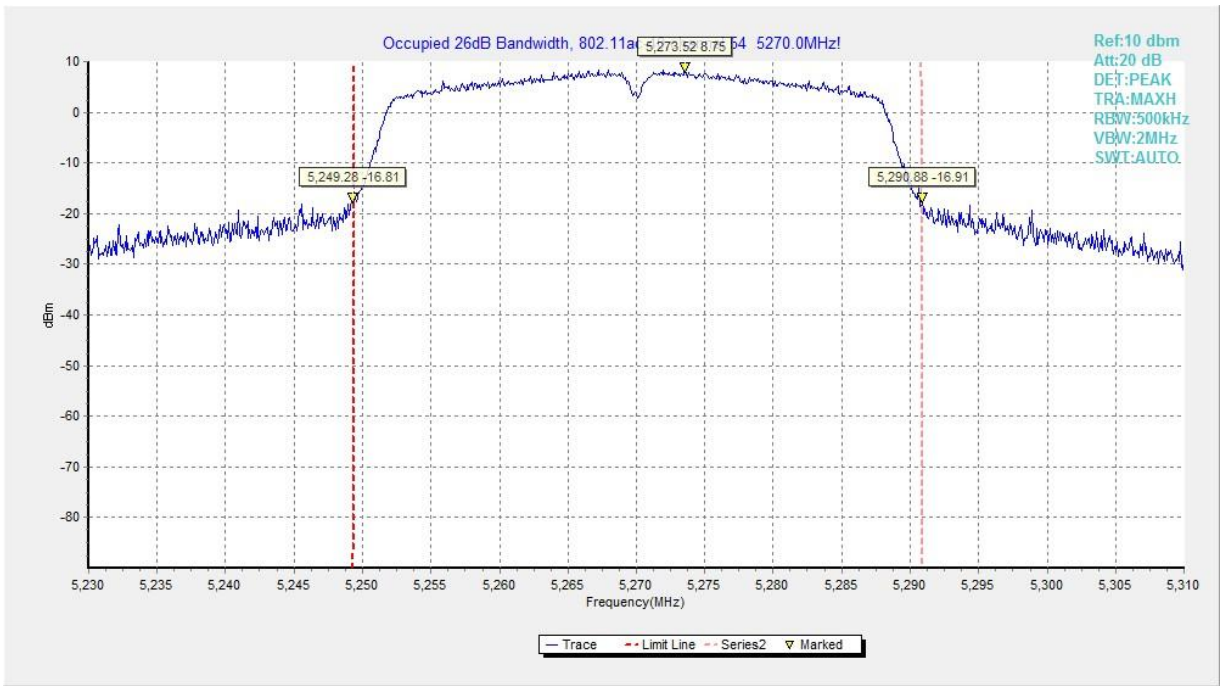


Fig. 9 Occupied 26dB Bandwidth (802. 11ac-VHT40, 5270MHz)

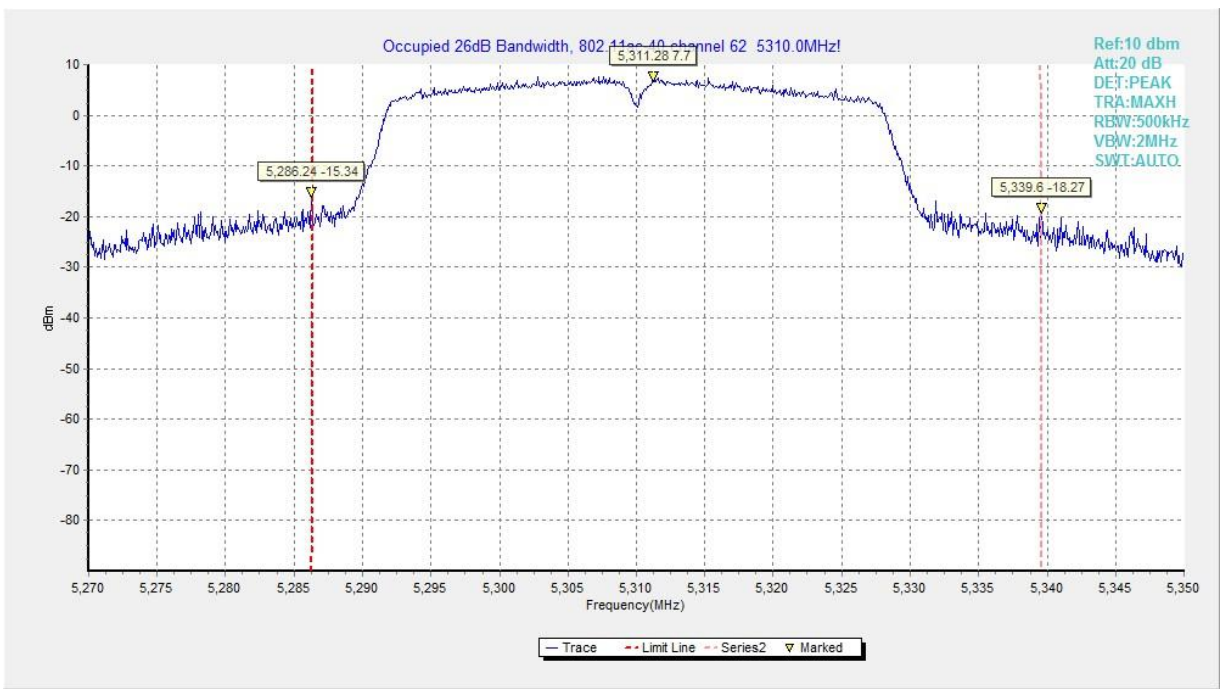


Fig. 10 Occupied 26dB Bandwidth (802. 11ac-VHT40, 5310MHz)

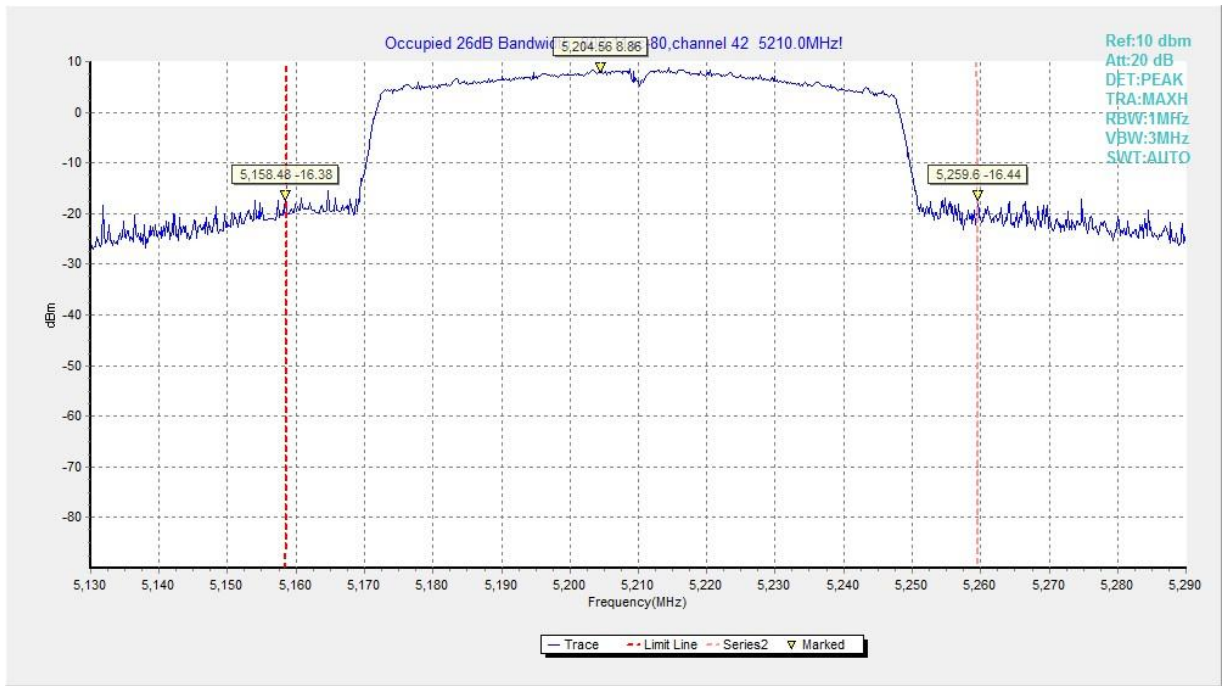


Fig. 11 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)

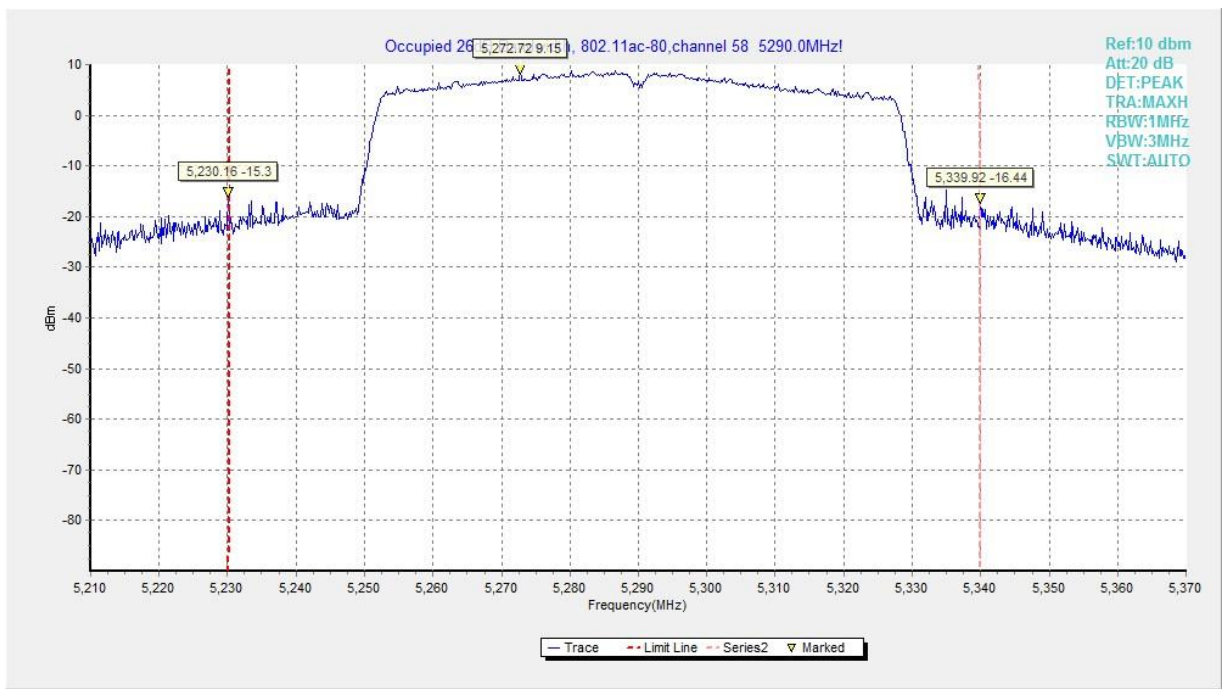


Fig. 12 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)

### A.5. Occupied 6dB Bandwidth

**Measurement Limit:**

Standard	Limit (MHz)
FCC 47 CFR Part 15.407	$\geq 0.5$

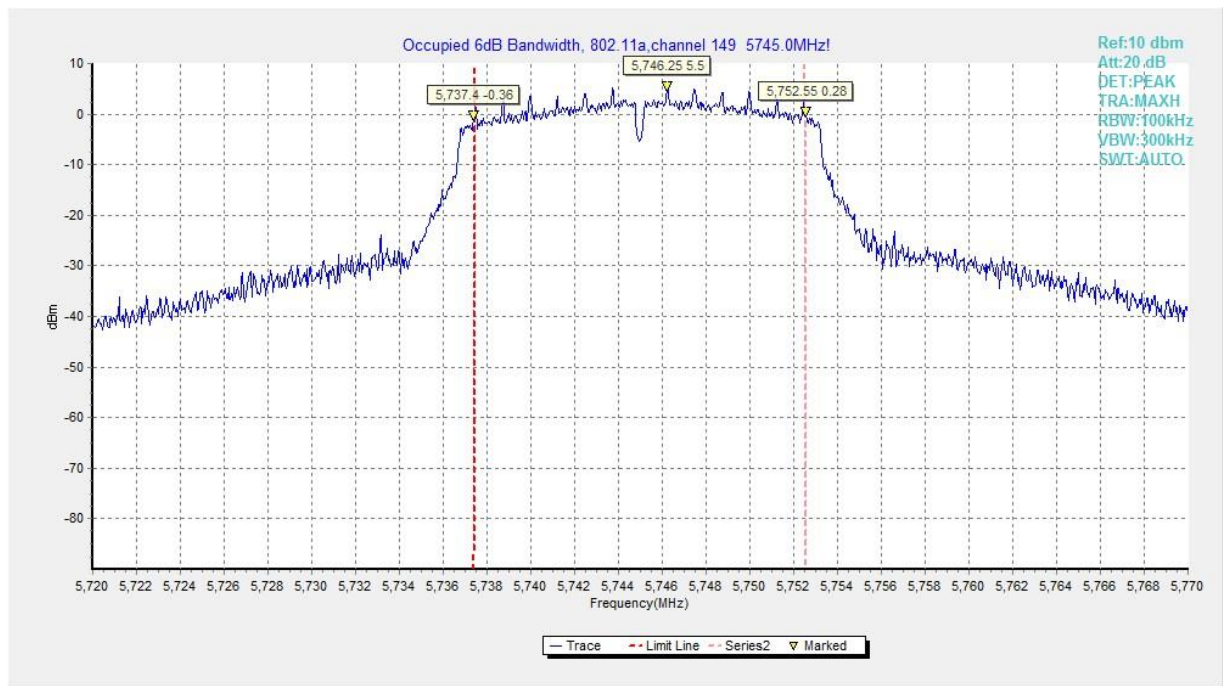
The measurement is made according to KDB 789033.

**Measurement Result:**

Mode	Channel	Occupied 6dB Bandwidth (MHz)		Conclusion
		Fig.	Value	
802.11a	5745MHz(Ch149)	Fig.13	15.15	P
	5785MHz(Ch157)	Fig.14	15.15	P
	5825MHz(Ch165)	Fig.15	15.15	P
802.11ac VHT40	5755MHz(Ch151)	Fig.16	35.04	P
	5795MHz(Ch159)	Fig.17	35.04	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)**

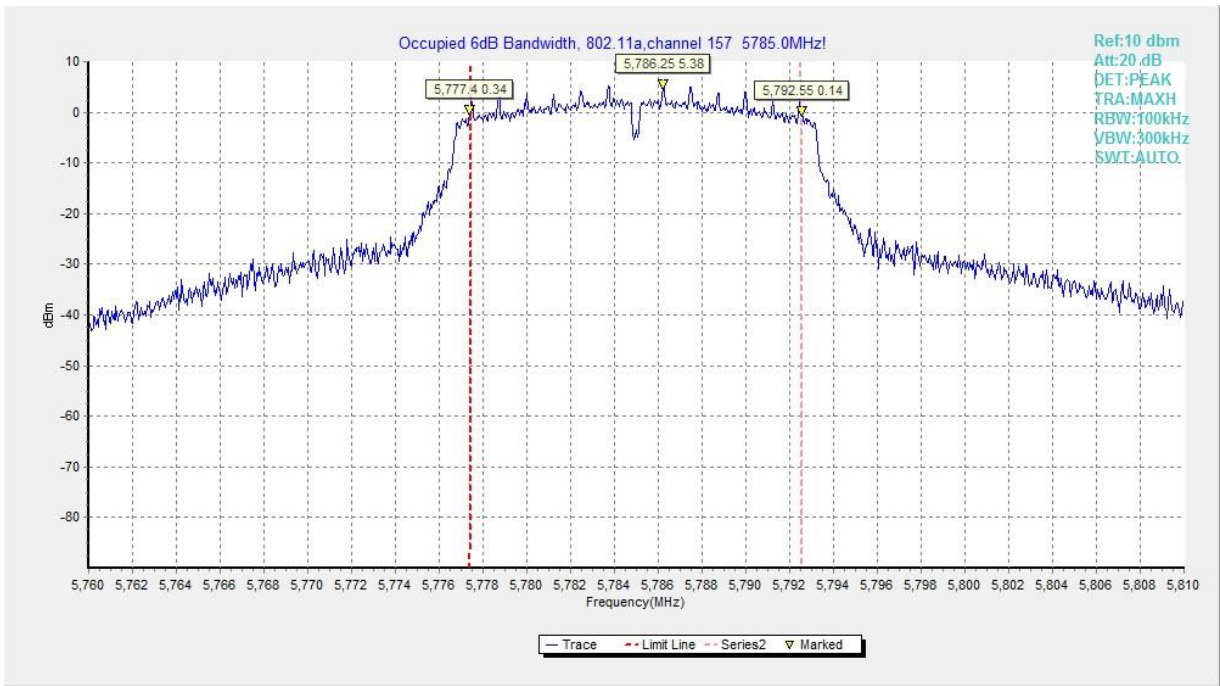


Fig. 14 Occupied 6dB Bandwidth (802.11a, 5785MHz)

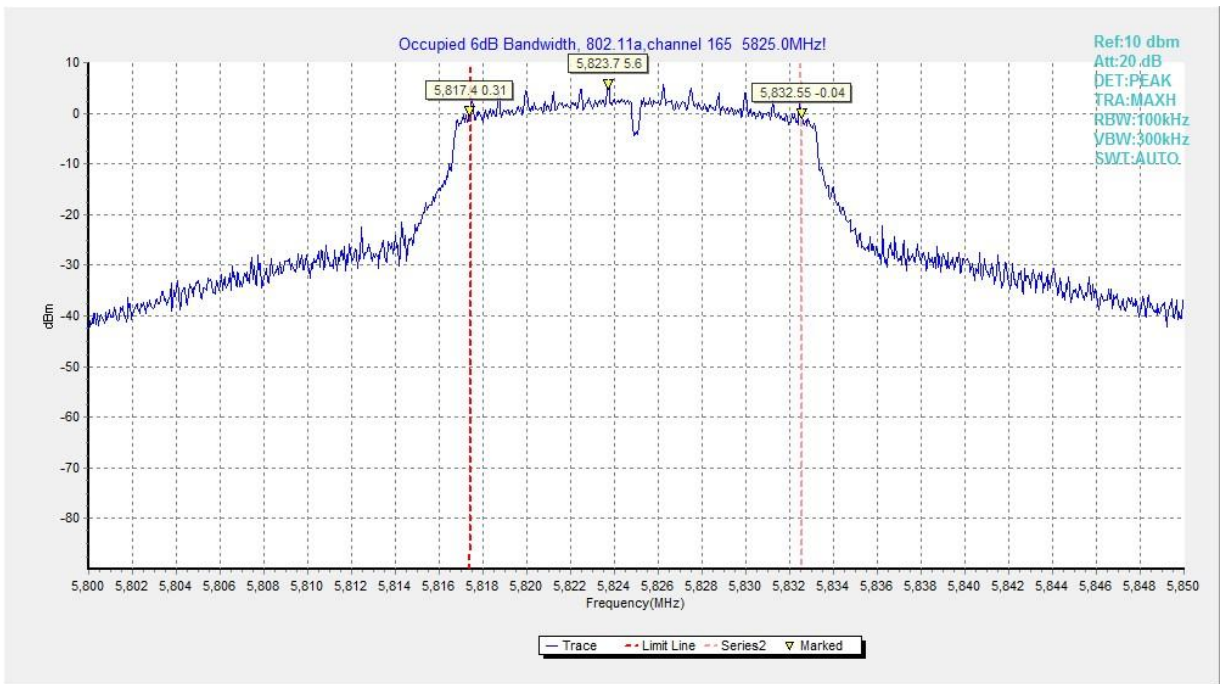


Fig. 15 Occupied 6dB Bandwidth (802.11a, 5825MHz)



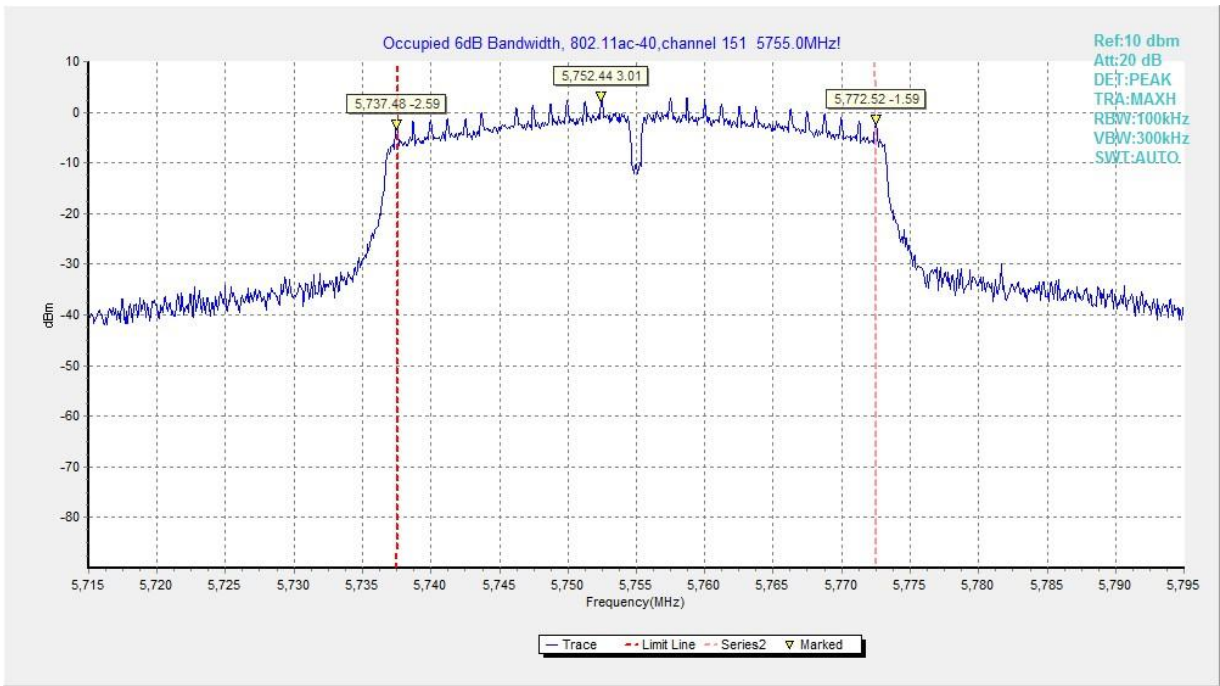


Fig. 16 Occupied 6dB Bandwidth (802.11ac-VHT40, 5755MHz)

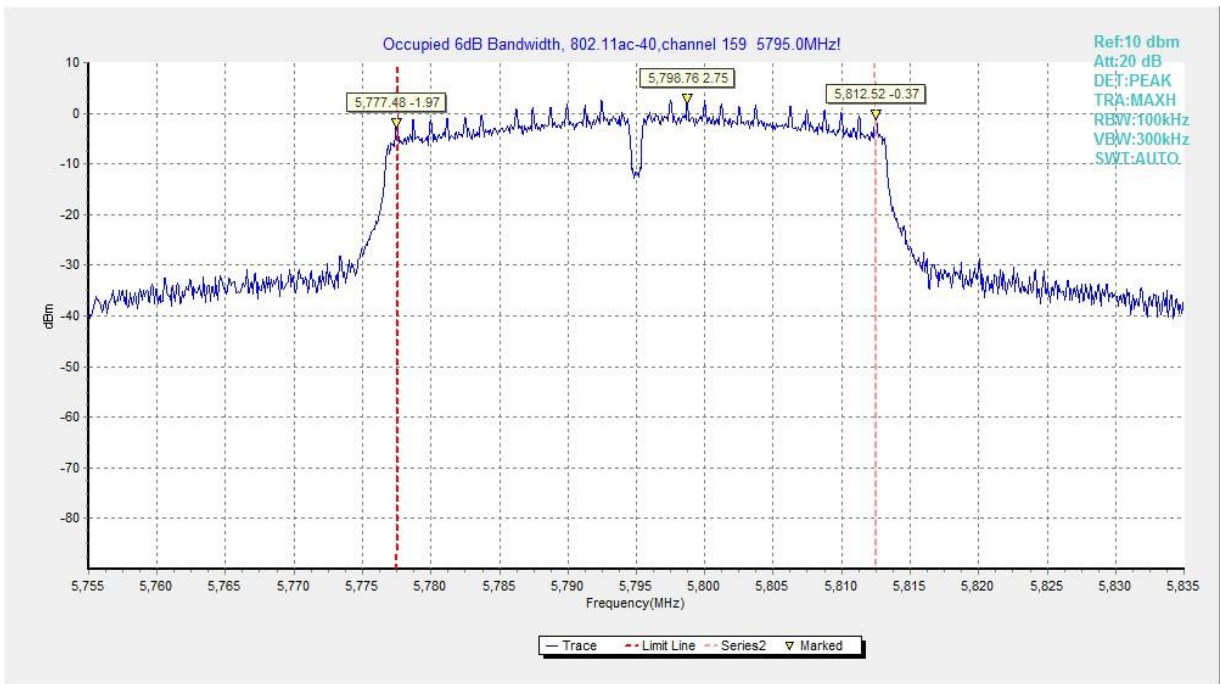


Fig. 17 Occupied 6dB Bandwidth (802.11ac-VHT40, 5795MHz)

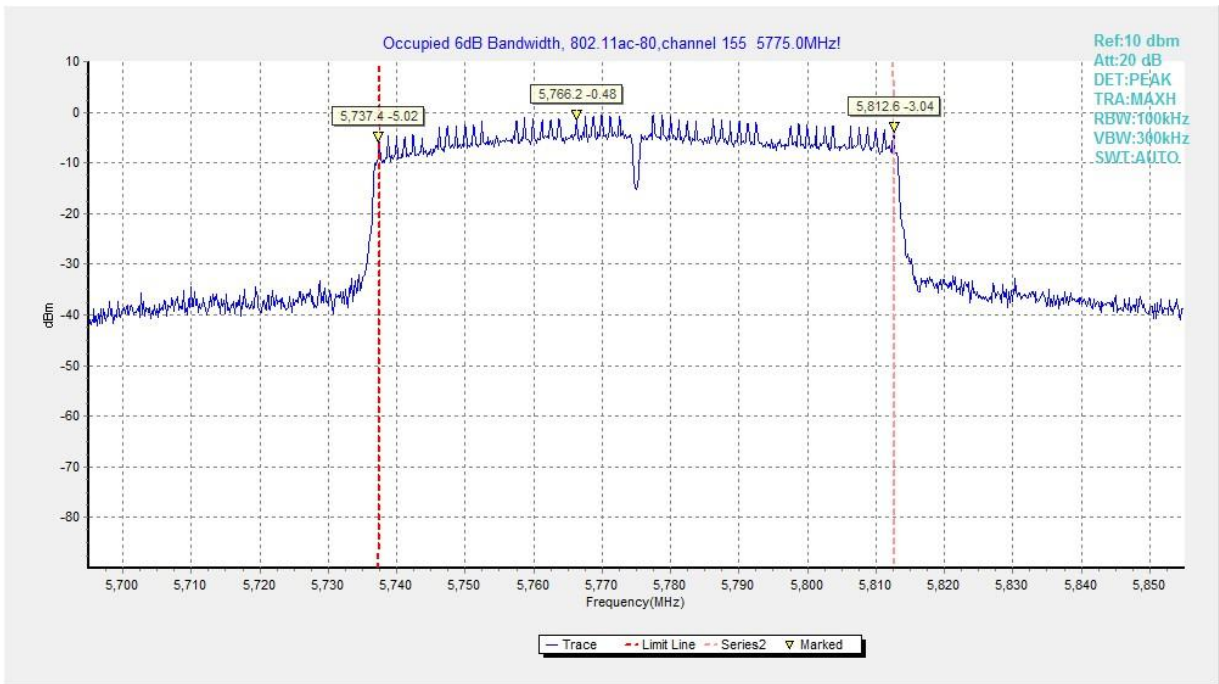


Fig. 18 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)

## 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
		Fig.	Value	
802.11a	5180MHz(Ch36)	Fig.19	17.56	P
	5200MHz(Ch40)	Fig.20	17.60	P
	5240MHz(Ch48)	Fig.21	17.56	P
	5260MHz(Ch52)	Fig.22	17.52	P
	5280MHz(Ch56)	Fig.23	17.52	P
	5320MHz(Ch64)	Fig.24	17.64	P
	5745MHz(Ch149)	Fig.25	17.48	P
	5785MHz(Ch157)	Fig.26	17.63	P
	5825MHz(Ch165)	Fig.27	17.60	P
802.11ac VHT40	5190MHz(Ch38)	Fig.28	36.32	P
	5230MHz(Ch46)	Fig.29	36.24	P
	5270MHz(Ch54)	Fig.30	36.24	P
	5310MHz(Ch62)	Fig.31	36.48	P
	5755MHz(Ch151)	Fig.32	36.08	P
	5795MHz(Ch159)	Fig.33	36.32	P
802.11ac VHT80	5210MHz(Ch42)	Fig.34	75.36	P
	5290MHz(Ch58)	Fig.35	75.36	P
	5775MHz(Ch155)	Fig.36	75.52	P

**Conclusion: PASS**

Test graphs as below:

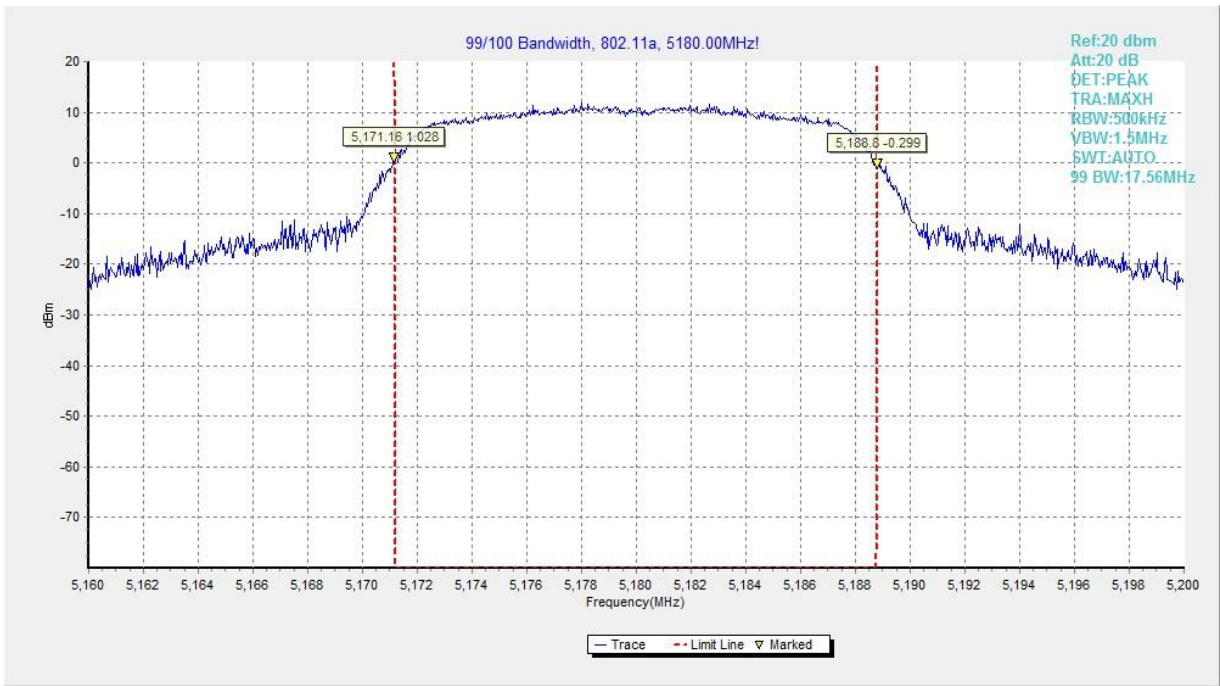


Fig. 19 99% Occupied Bandwidth (802.11a, 5180MHz)

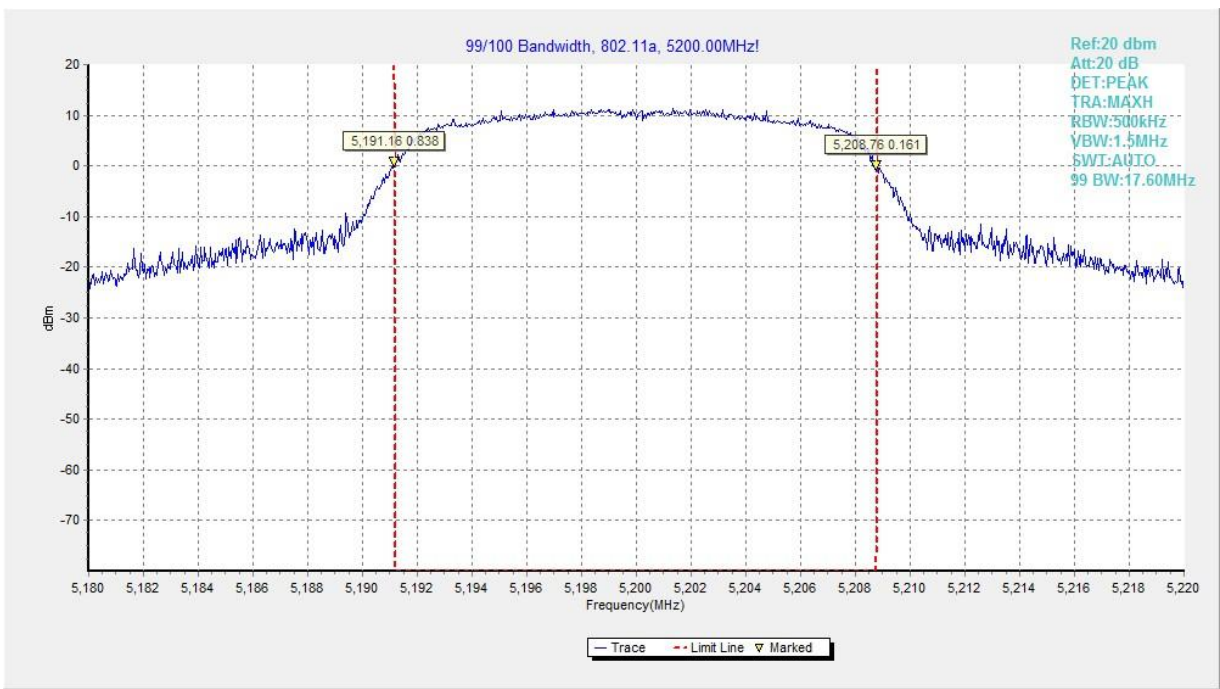


Fig. 20 99% Occupied Bandwidth (802.11a, 5200MHz)

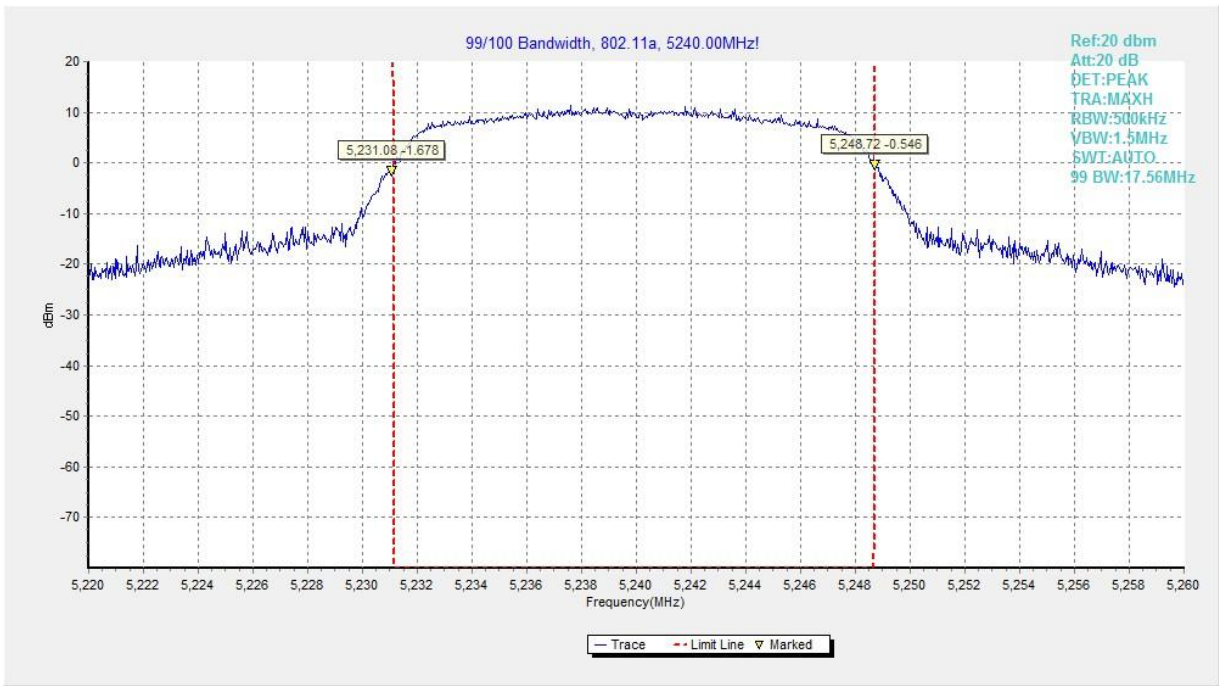


Fig. 21 99% Occupied Bandwidth (802.11a, 5240MHz)

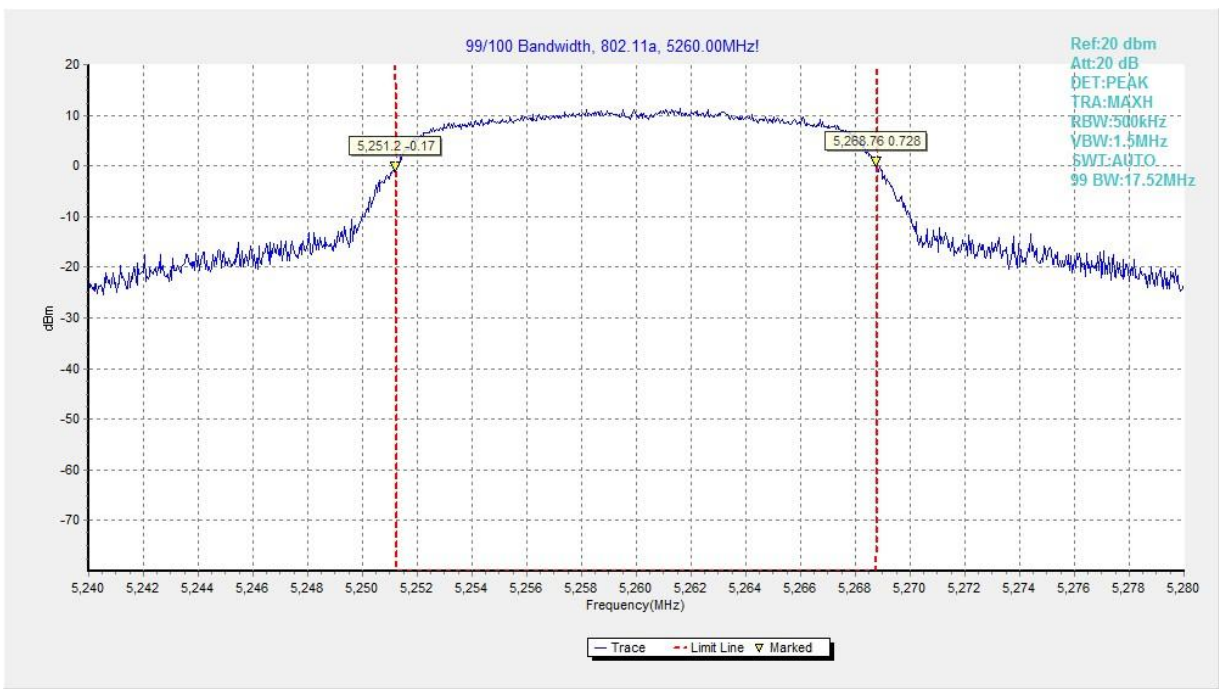


Fig. 22 99% Occupied Bandwidth (802.11a, 5260MHz)

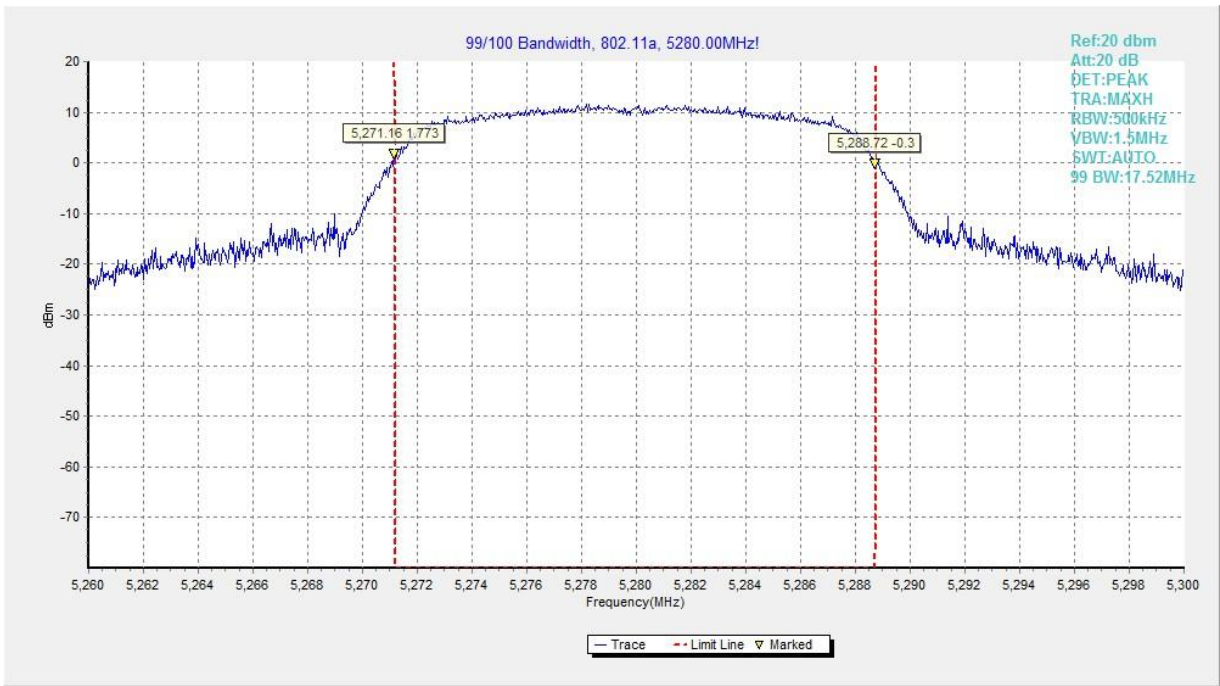


Fig. 23 99% Occupied Bandwidth (802.11a, 5280MHz)

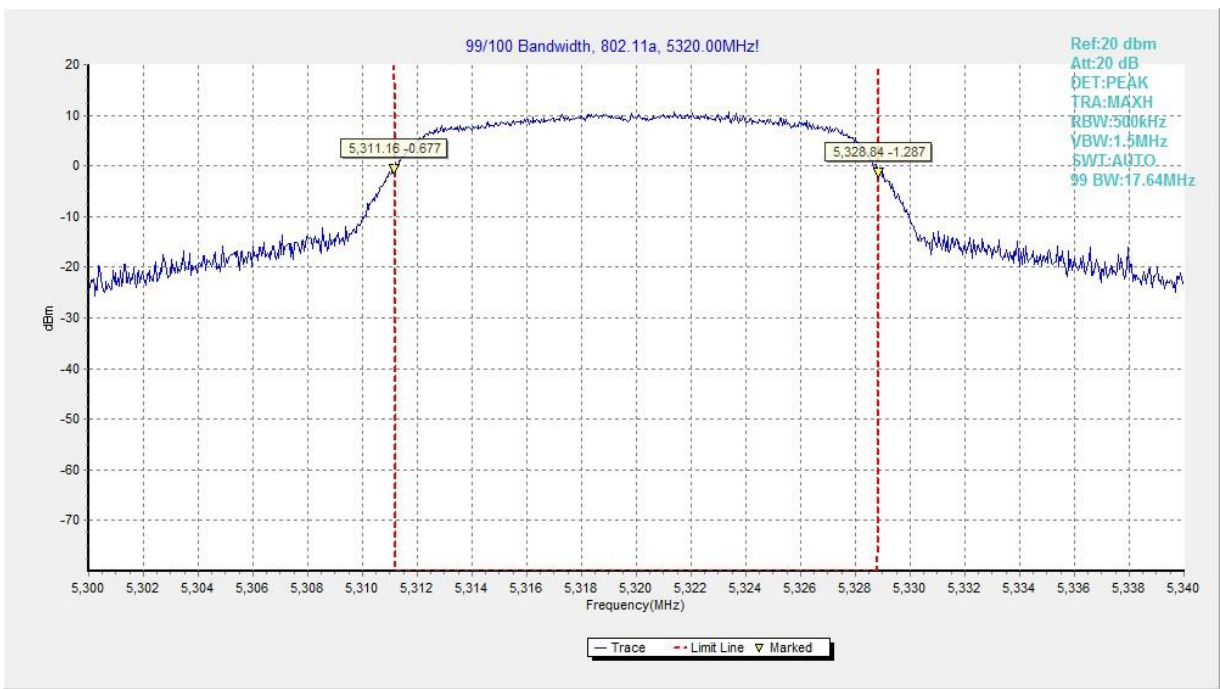


Fig. 24 99% Occupied Bandwidth (802.11a, 5320MHz)

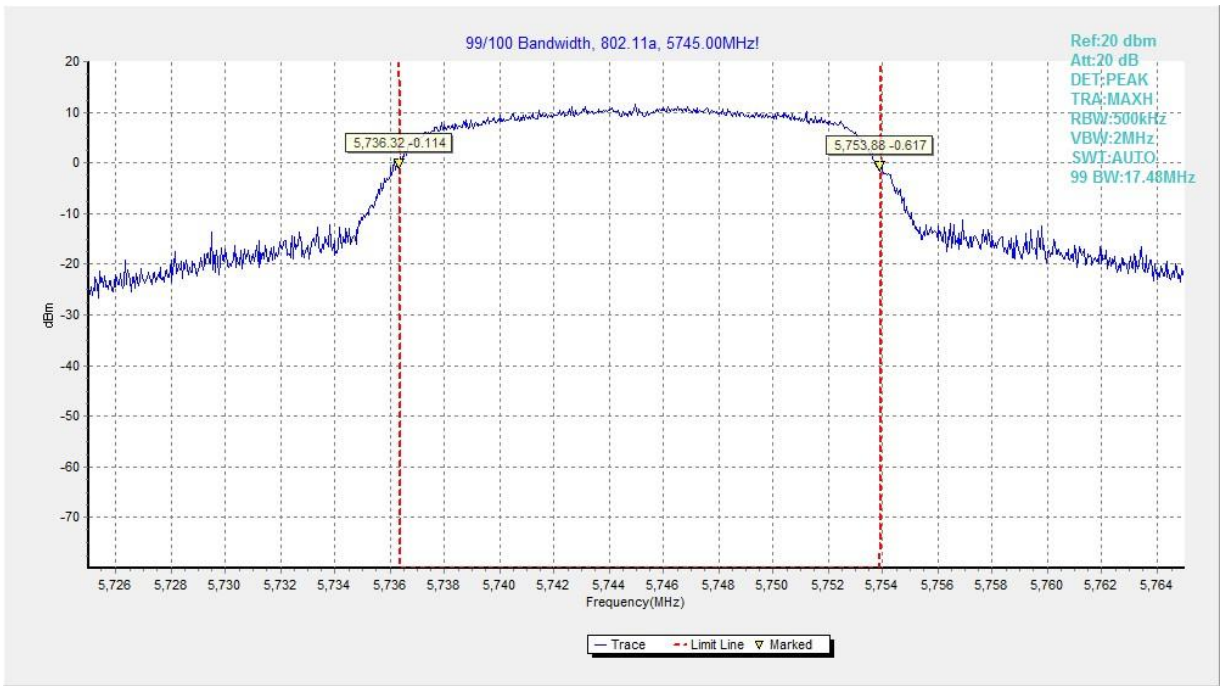


Fig. 25 99% Occupied Bandwidth (802.11a, 5745MHz)

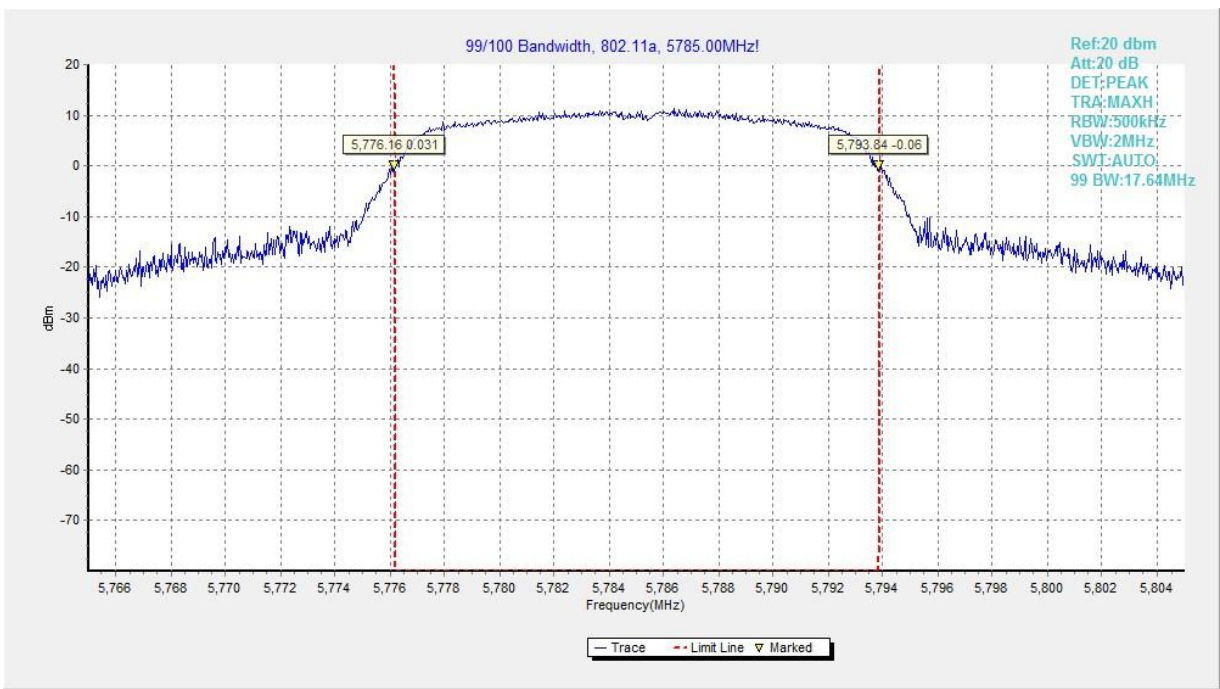


Fig. 26 99% Occupied Bandwidth (802.11a, 5785MHz)

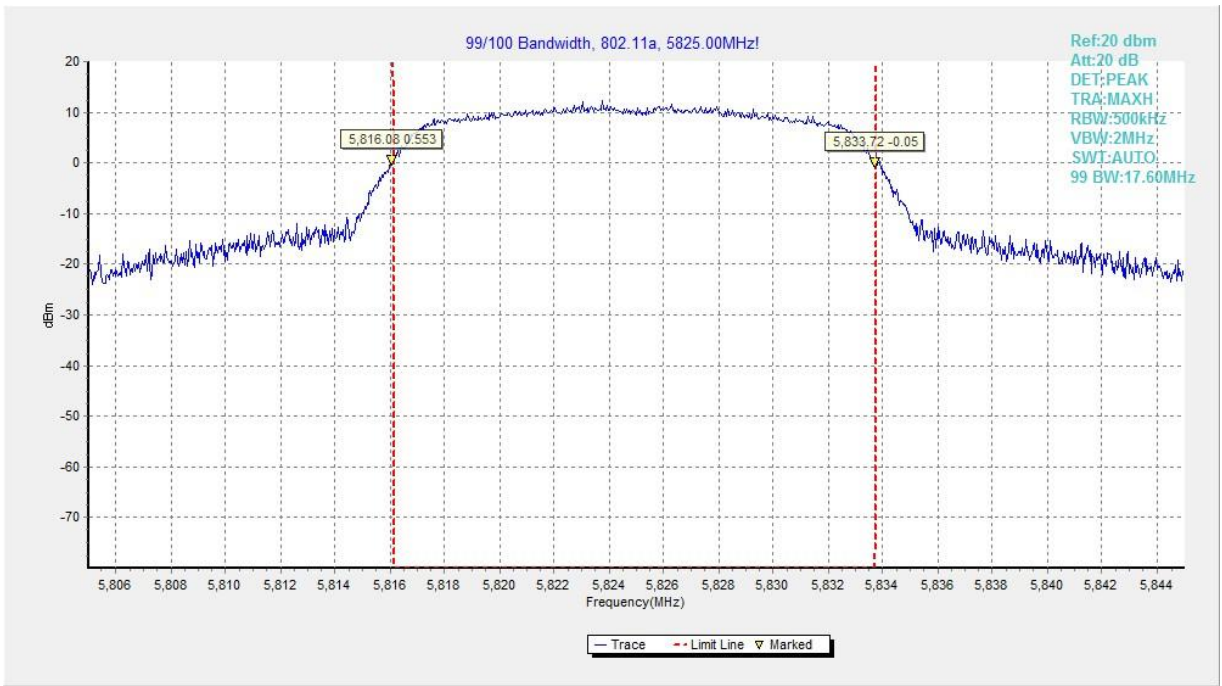


Fig. 27 99% Occupied Bandwidth (802.11a, 5825MHz)

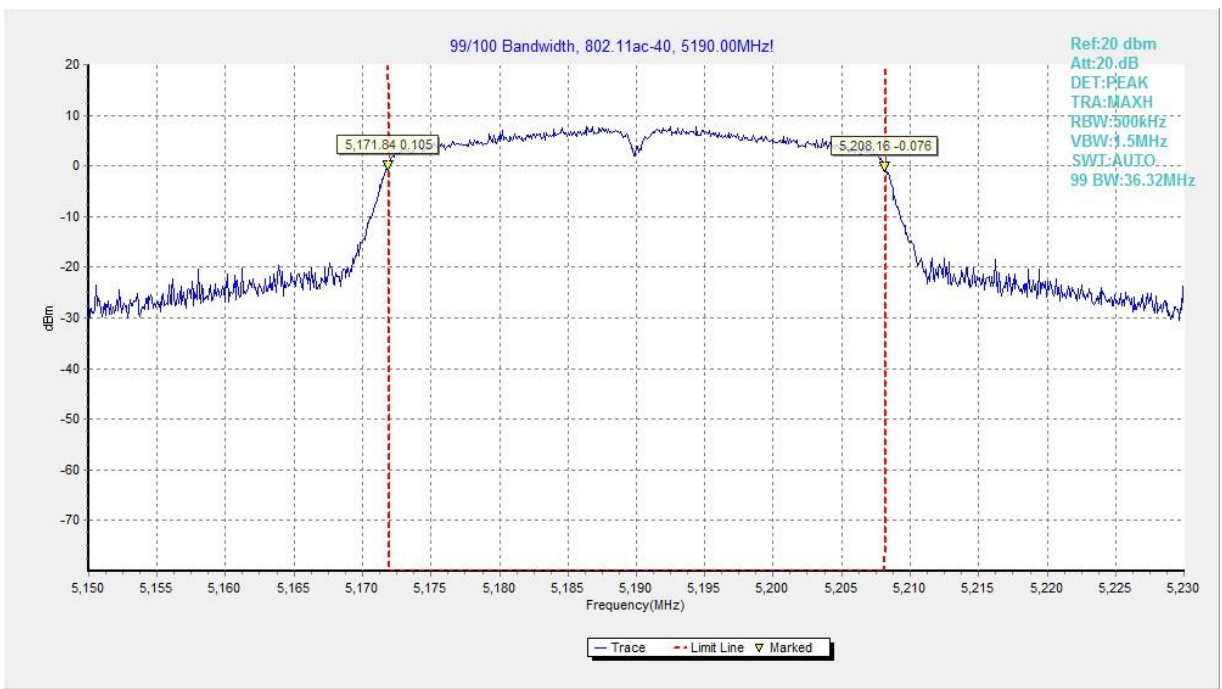


Fig. 28 99% Occupied Bandwidth (802.11ac-VHT40, 5190MHz)



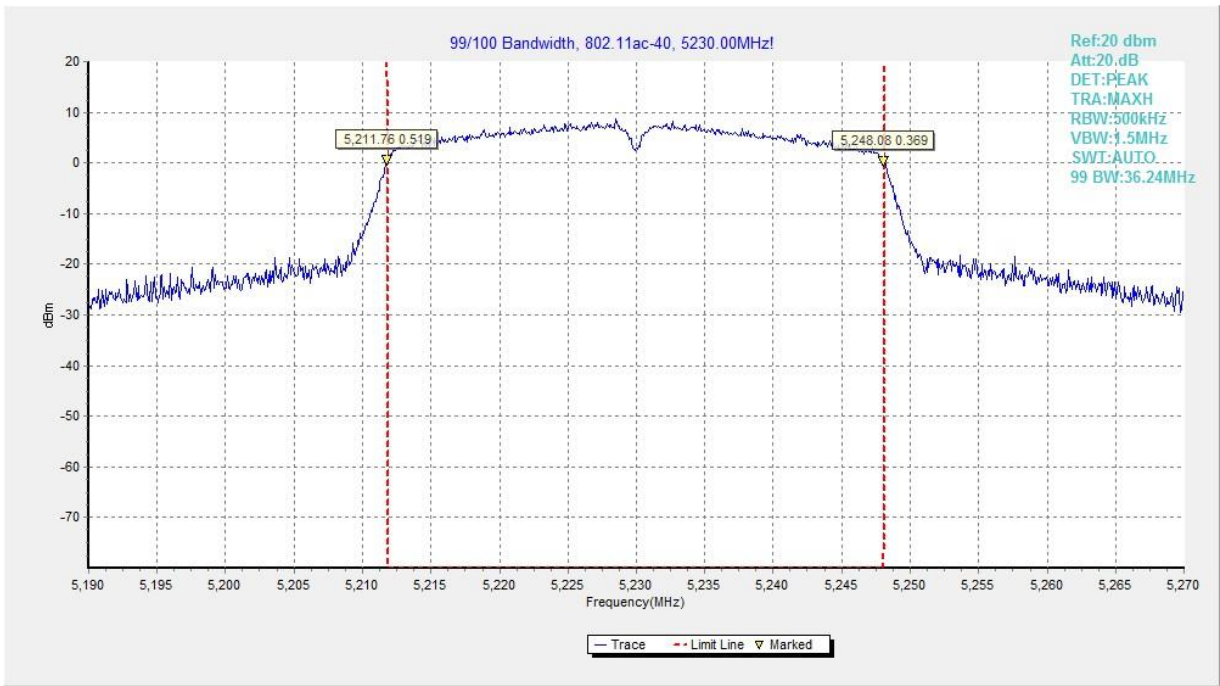


Fig. 29 99% Occupied Bandwidth (802. 11ac-VHT40, 5230MHz)

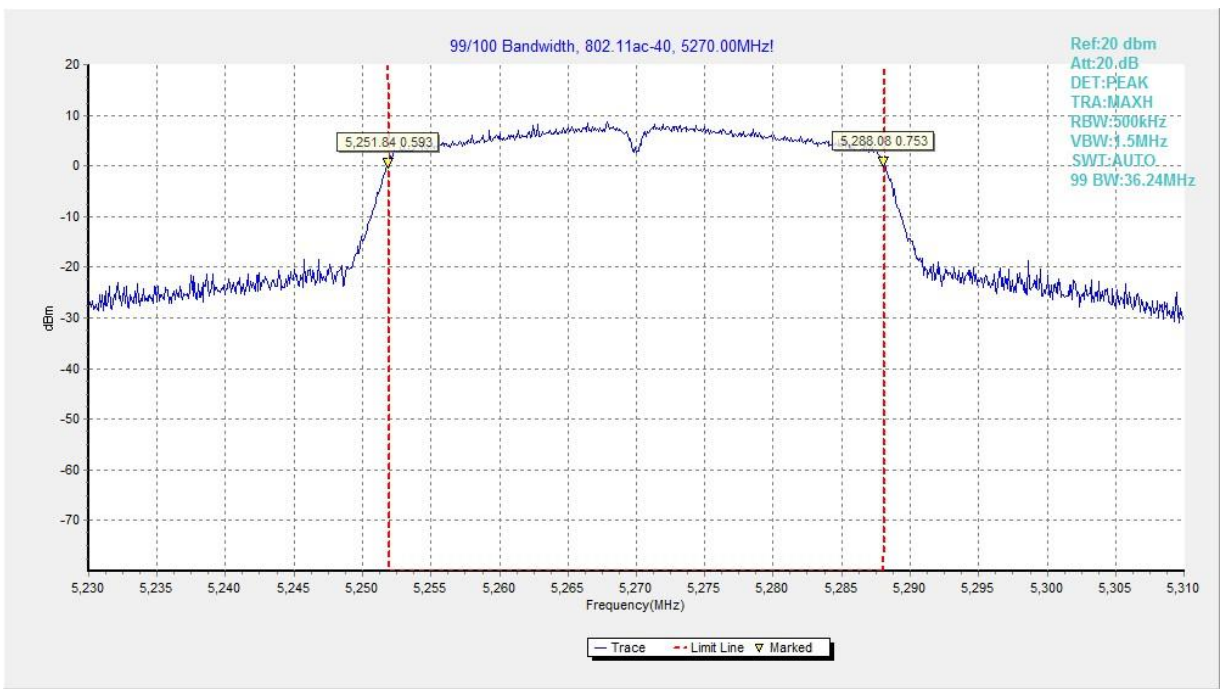


Fig. 30 99% Occupied Bandwidth (802. 11ac-VHT40, 5270MHz)

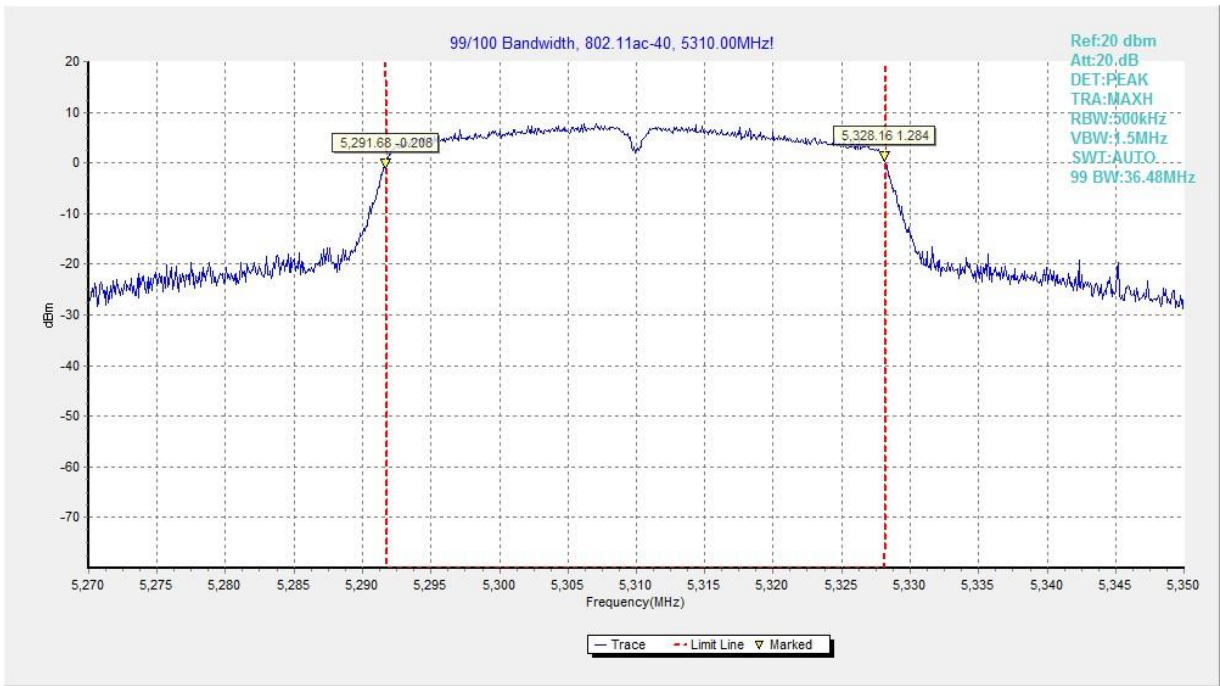


Fig. 31 99% Occupied Bandwidth (802. 11ac-VHT40, 5310MHz)

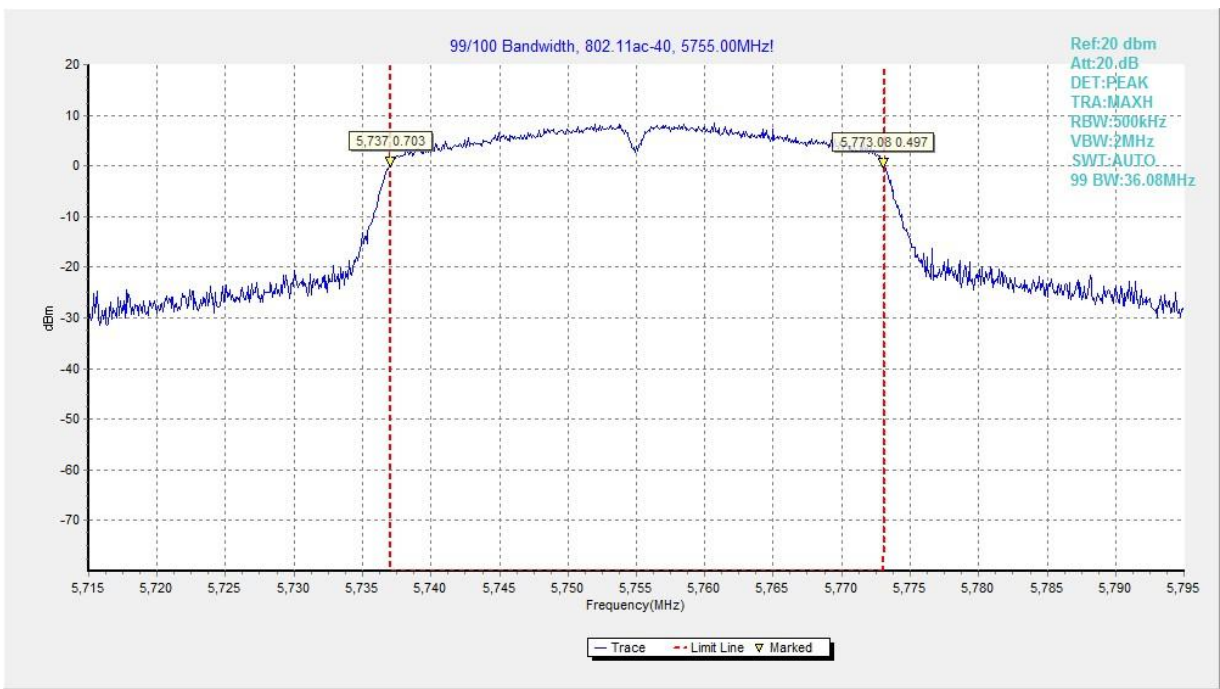


Fig. 32 99% Occupied Bandwidth (802. 11ac-VHT40, 5755MHz)

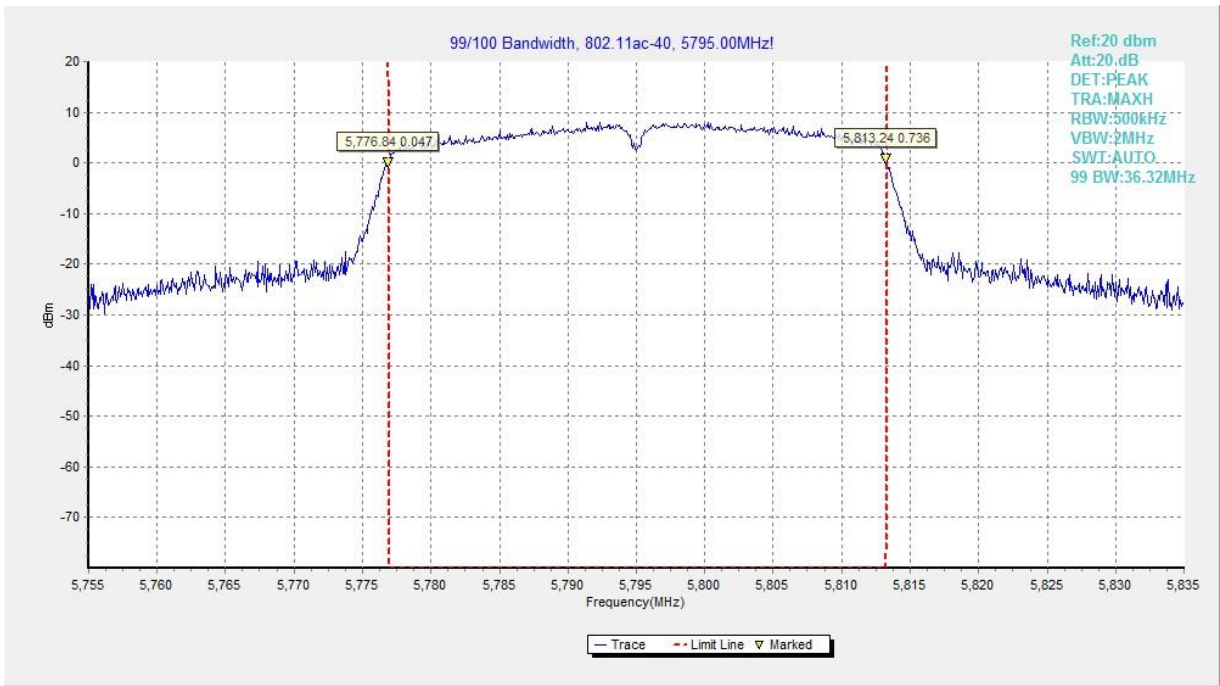


Fig. 33 99% Occupied Bandwidth (802.11ac-VHT40, 5795MHz)

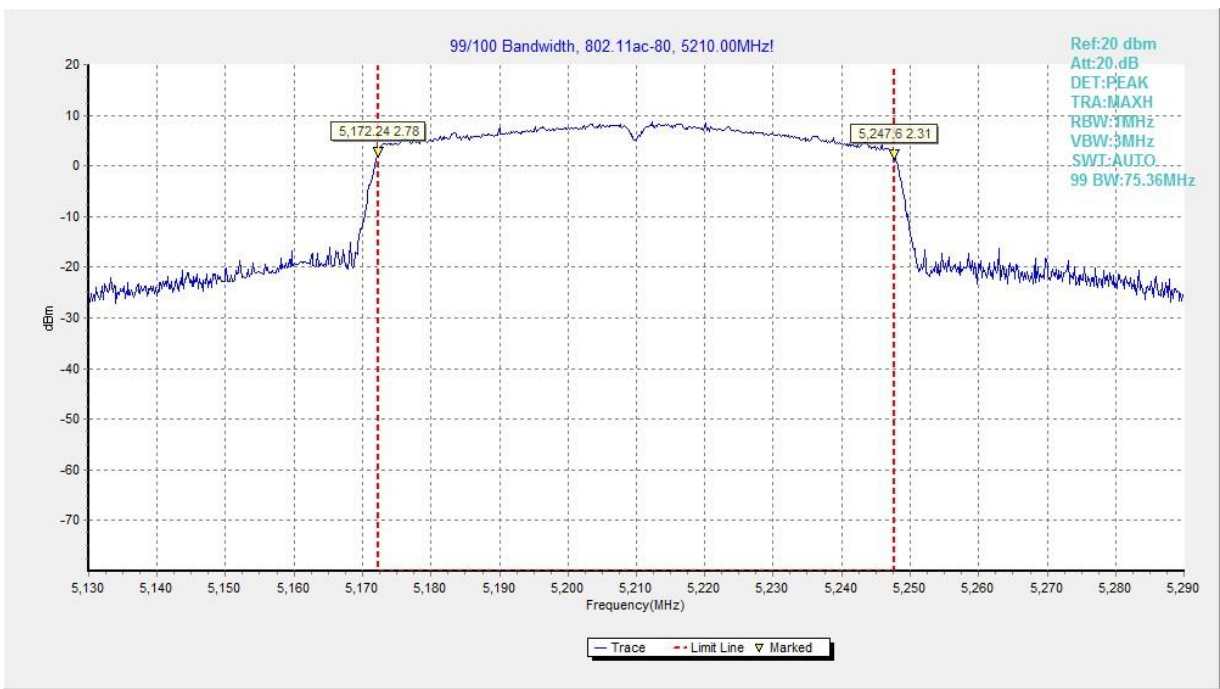


Fig. 34 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)

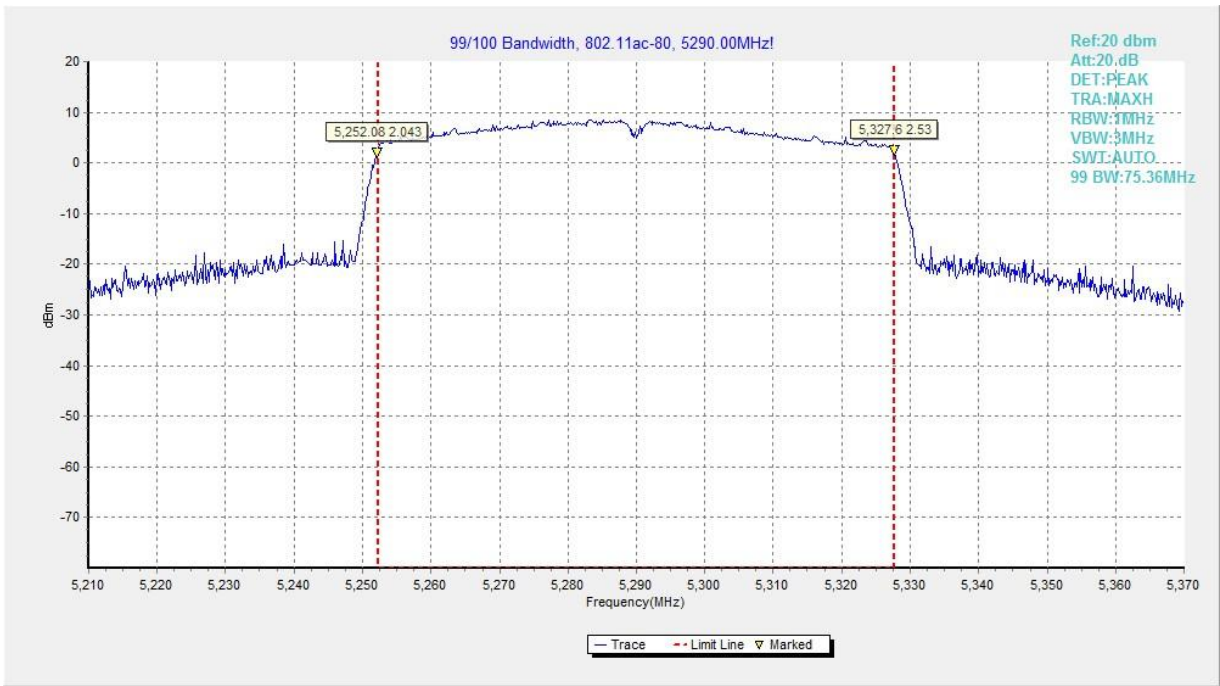


Fig. 35 99% Occupied Bandwidth (802.11ac-VHT80, 5290MHz)

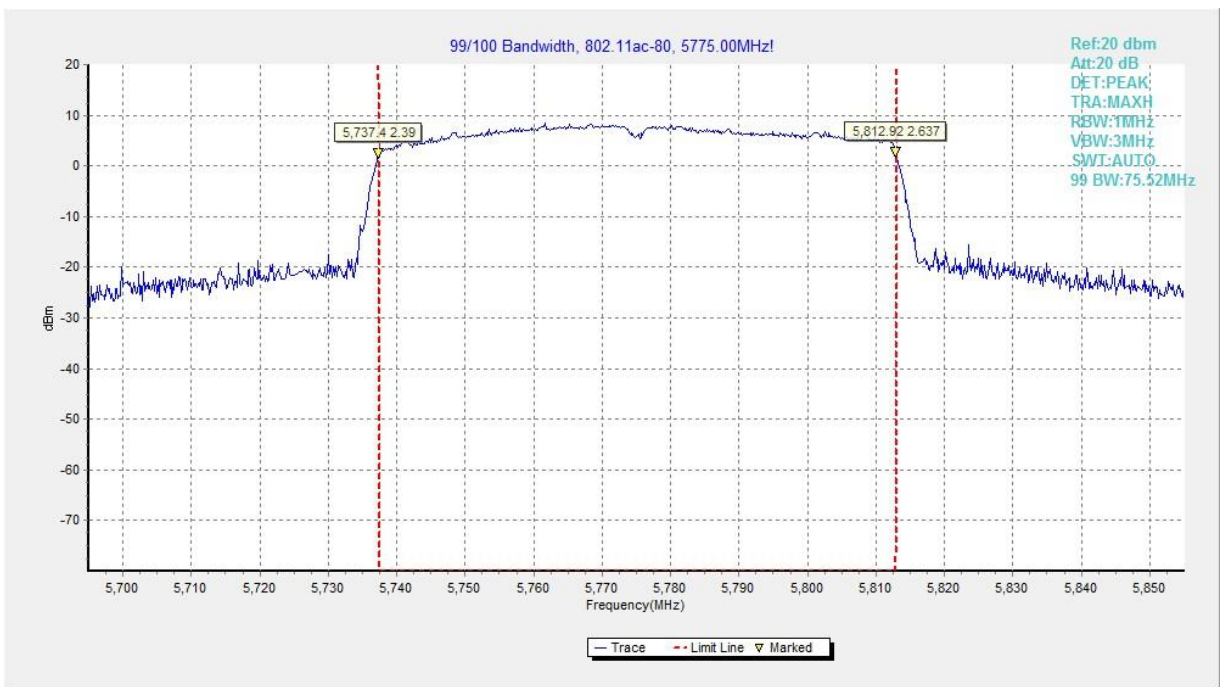


Fig. 36 99% Occupied Bandwidth (802.11ac-VHT80, 5775MHz)

### A.7. Band Edges Compliance

**Measurement Limit:**

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

The measurement is made according to KDB 789033.

**Measurement Result:**

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz (CH36)	Fig.37	<b>P</b>
	5320 MHz (CH64)	Fig.38	<b>P</b>
	5745 MHz (CH149)	Fig.39	<b>P</b>
	5825 MHz (CH165)	Fig.40	<b>P</b>
802.11ac VHT40	5190 MHz (CH38)	Fig.41	<b>P</b>
	5310 MHz (CH62)	Fig.42	<b>P</b>
	5755 MHz (CH151)	Fig.43	<b>P</b>
	5795 MHz (CH159)	Fig.44	<b>P</b>
802.11ac VHT80	5210 MHz (CH42)	Fig.45	<b>P</b>
	5290 MHz (CH58)	Fig.46	<b>P</b>
	5775 MHz (CH155)	Fig.47	<b>P</b>

**Conclusion: PASS**

**Test graphs as below:**

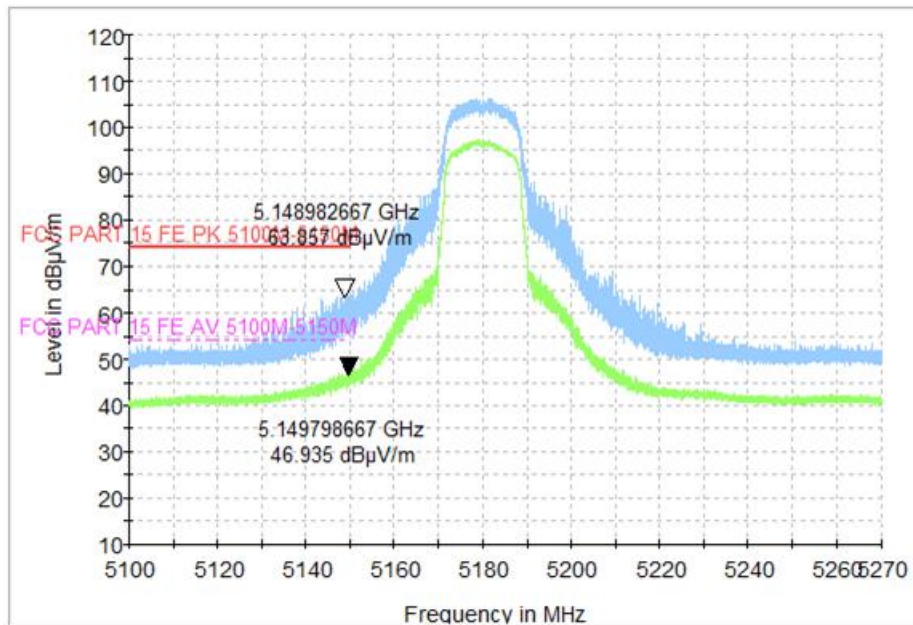


Fig. 37 Band Edges (802.11a, CH36 5180MHz)

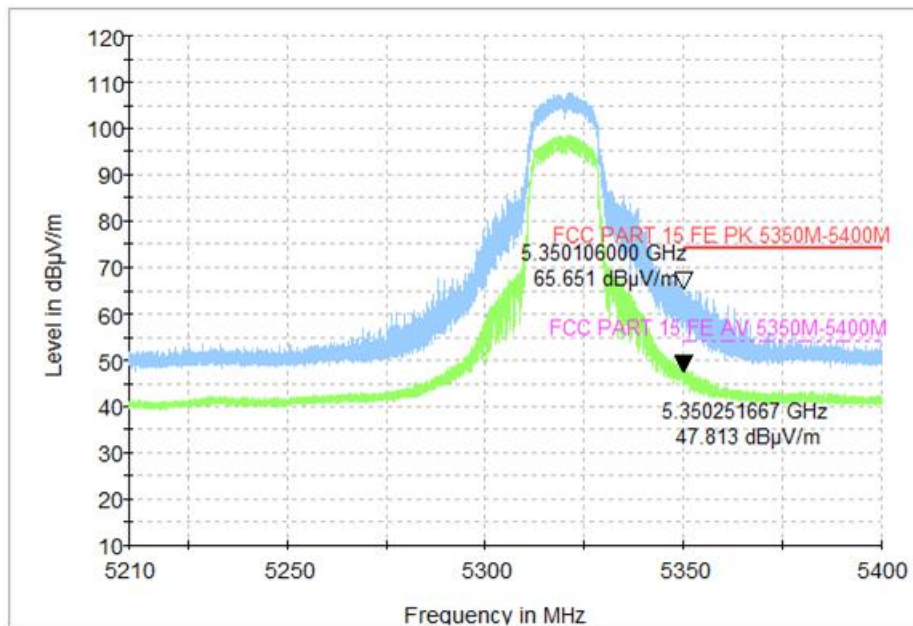
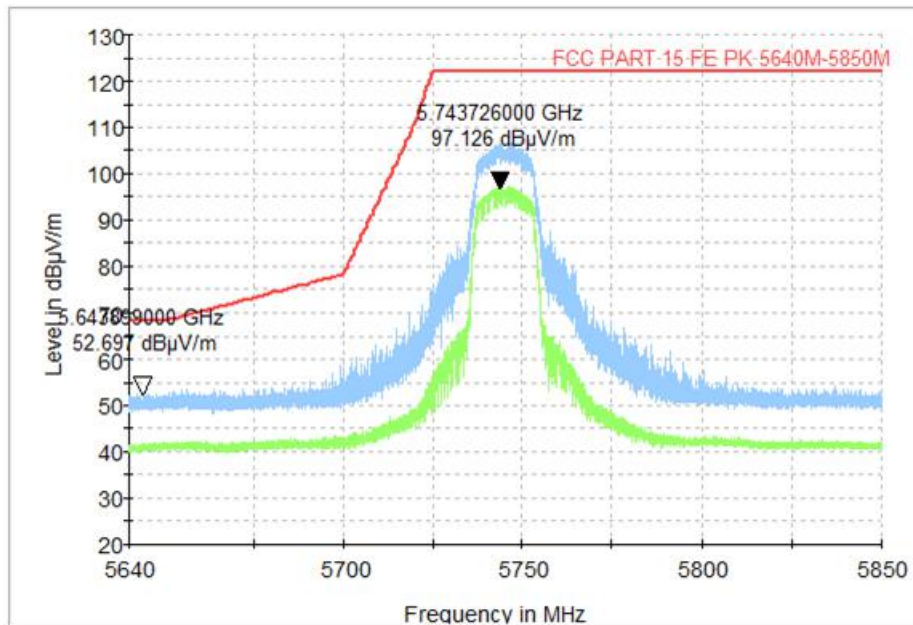
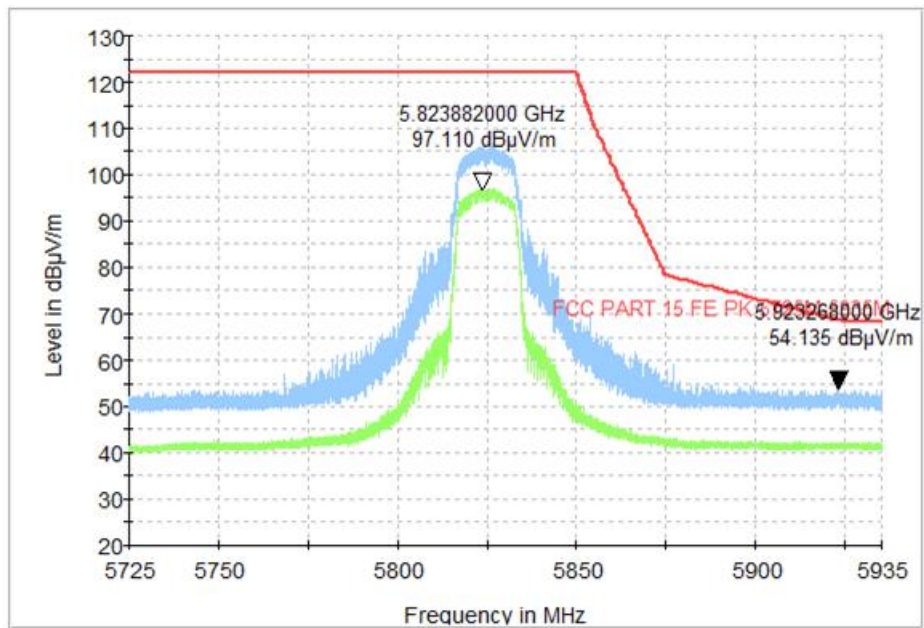


Fig. 38 Band Edges (802.11a, CH64 5320MHz)



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



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

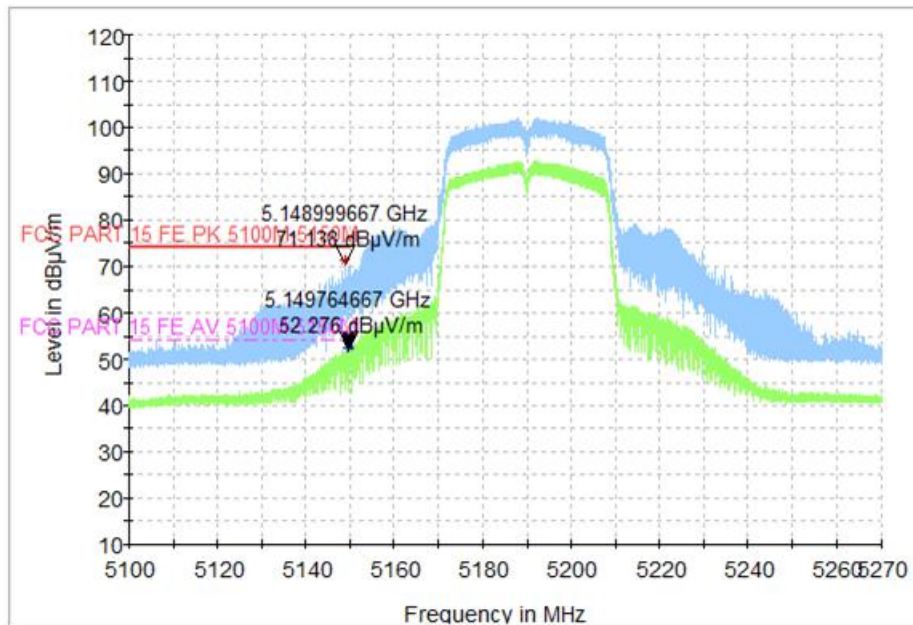


Fig. 41 Band Edges (802.11ac-VHT40, CH38 5190MHz)

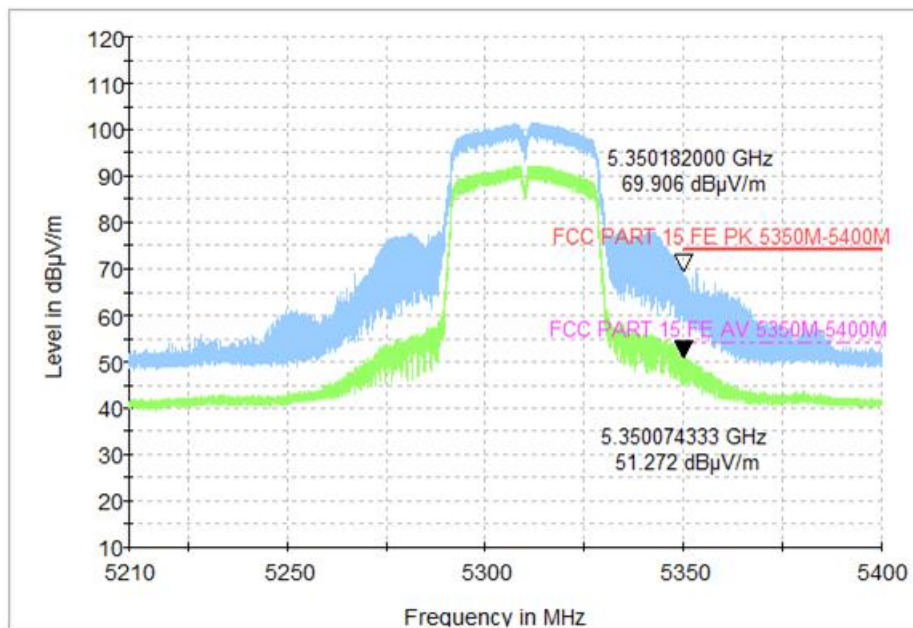


Fig. 42 Band Edges (802.11ac-VHT40, CH62 5310MHz)



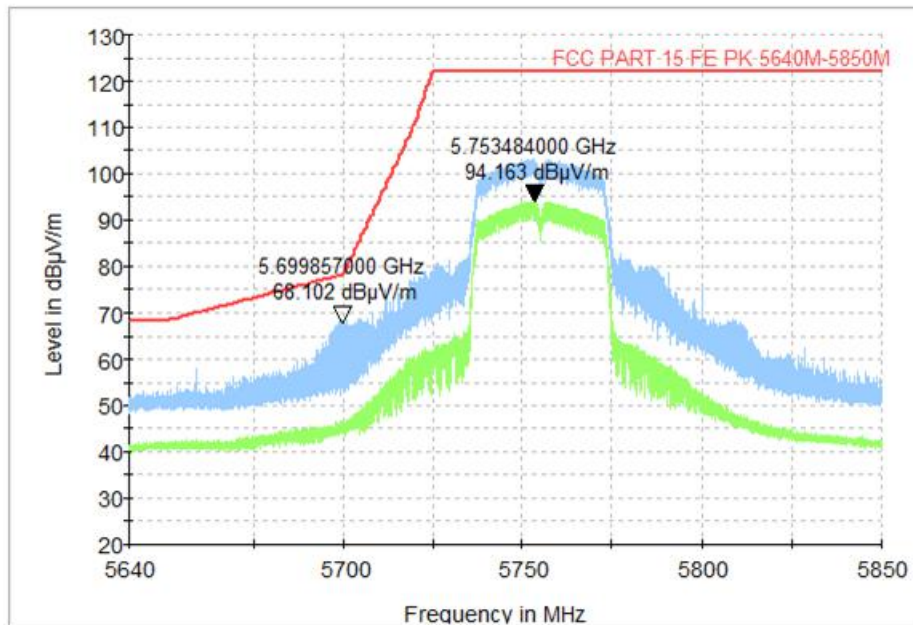


Fig. 43 Band Edges (802.11ac-VHT40, CH151 5755MHz)

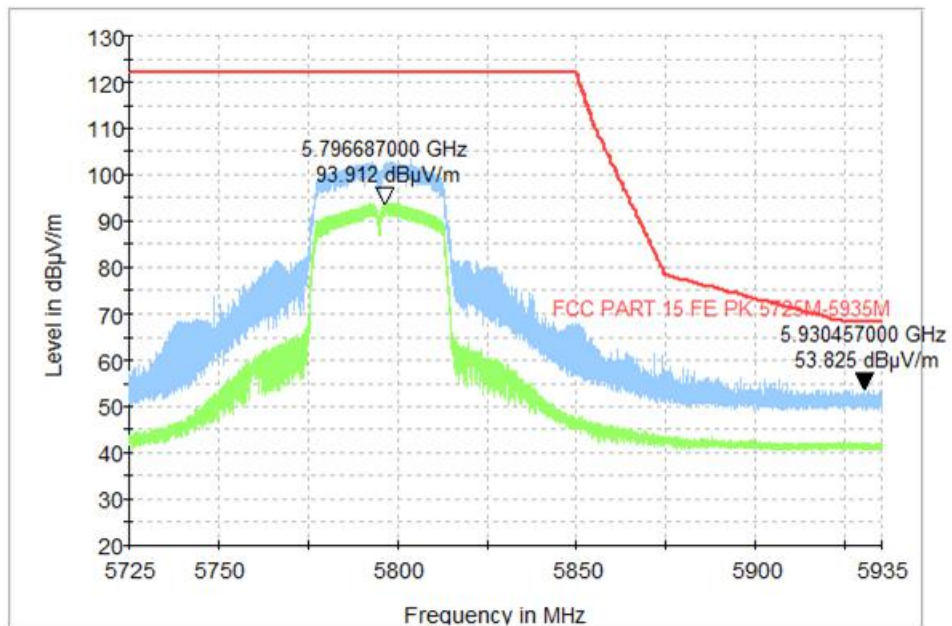


Fig. 44 Band Edges (802.11ac-VHT40, CH159 5795MHz)

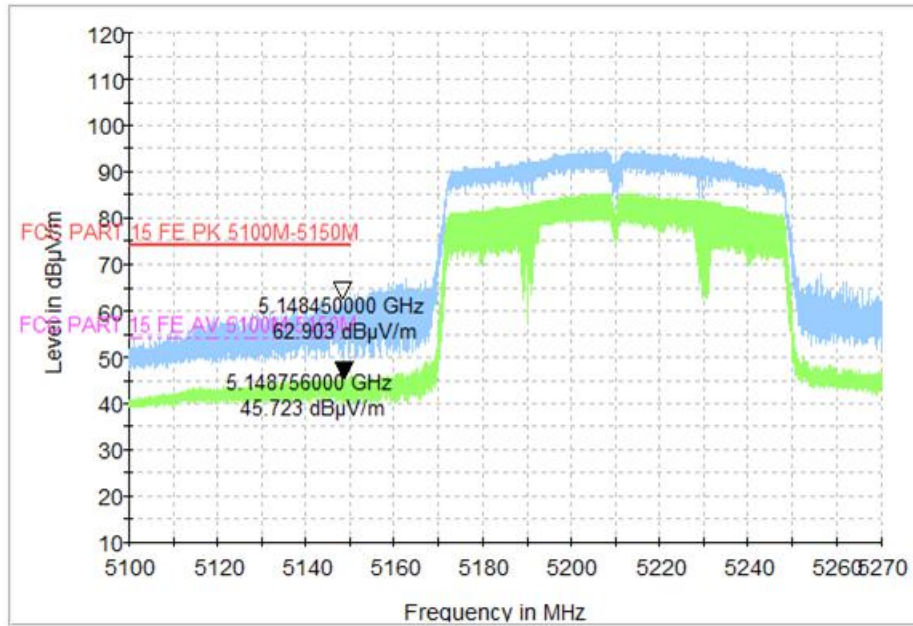


Fig. 45 Band Edges (802.11ac-VHT80, CH42 5210MHz)

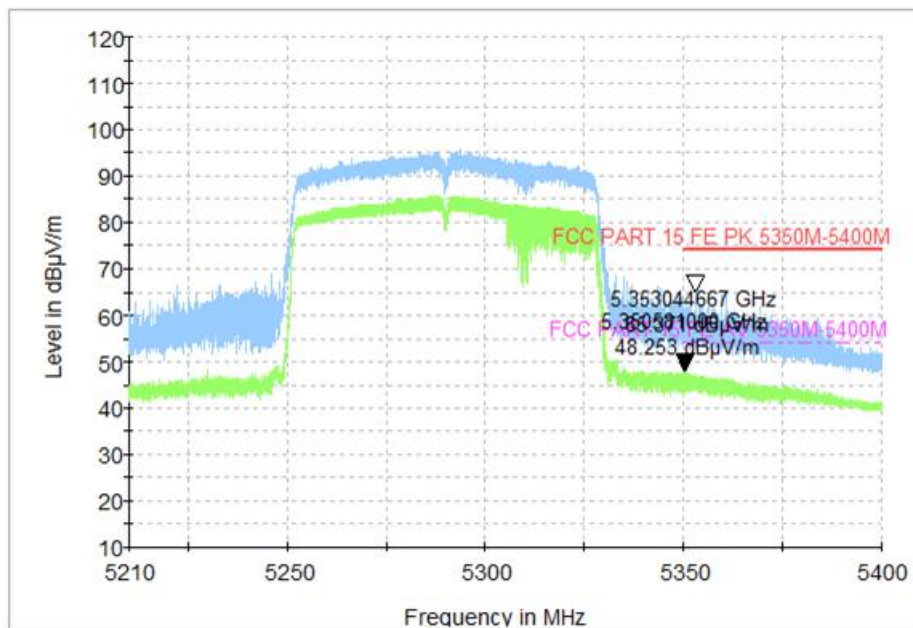


Fig. 46 Band Edges (802.11ac-VHT80, CH58 5290MHz)

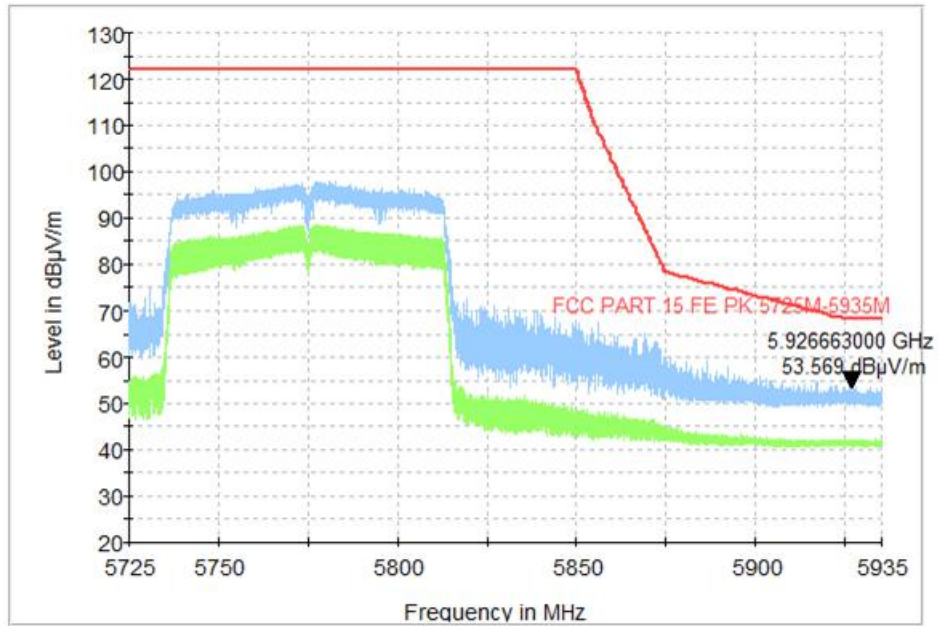


Fig. 47 Band Edges (802.11ac-VHT80, CH155 5775MHz)

## 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 (dB $\mu$ 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)	7 GHz ~ 18 GHz	Fig.48	P
	5200MHz (Ch40)	7 GHz ~ 18 GHz	Fig.49	P
	5240MHz (Ch48)	7 GHz ~ 18 GHz	Fig.50	P
	5260MHz (Ch52)	7 GHz ~ 18 GHz	Fig.51	P
	5280MHz (Ch56)	7 GHz ~ 18 GHz	Fig.52	P
	5320MHz (Ch64)	7 GHz ~ 18 GHz	Fig.53	P
	5745MHz (Ch149)	7 GHz ~ 18 GHz	Fig.54	P
	5785MHz (Ch157)	7 GHz ~ 18 GHz	Fig.55	P
802.11ac VHT40	5825MHz (Ch165)	7 GHz ~ 18 GHz	Fig.56	P
	5190MHz (Ch38)	7 GHz ~ 18 GHz	Fig.57	P
	5230MHz (Ch46)	7 GHz ~ 18 GHz	Fig.58	P
	5270MHz (Ch54)	7 GHz ~ 18 GHz	Fig.59	P
	5310MHz (Ch62)	7 GHz ~ 18 GHz	Fig.60	P
	5755MHz (Ch151)	7 GHz ~ 18 GHz	Fig.61	P
802.11ac VHT80	5795MHz (Ch159)	7 GHz ~ 18 GHz	Fig.62	P
	5210MHz (Ch42)	7 GHz ~ 18 GHz	Fig.63	P
	5290MHz (Ch58)	7 GHz ~ 18 GHz	Fig.64	P
All channels	5775MHz (Ch155)	7 GHz ~ 18 GHz	Fig.65	P
	30 MHz ~ 1 GHz	Fig.66	P	
	1 GHz ~ 3 GHz	Fig.67	P	
	3 GHz ~ 7 GHz	Fig.68	P	
	18 GHz ~ 26.5 GHz	Fig.69	P	



	26.5GHz ~ 40GHz	Fig.70	<b>P</b>
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**Conclusion: PASS**

**Test graphs as below:**

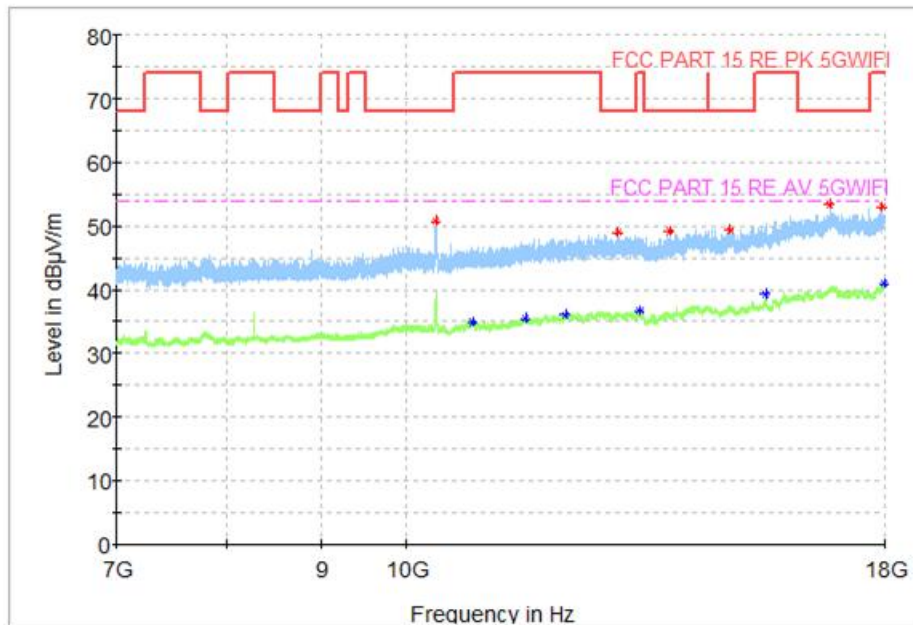


Fig. 48 Transmitter Spurious Emission (802.11a, CH36 5180MHz)

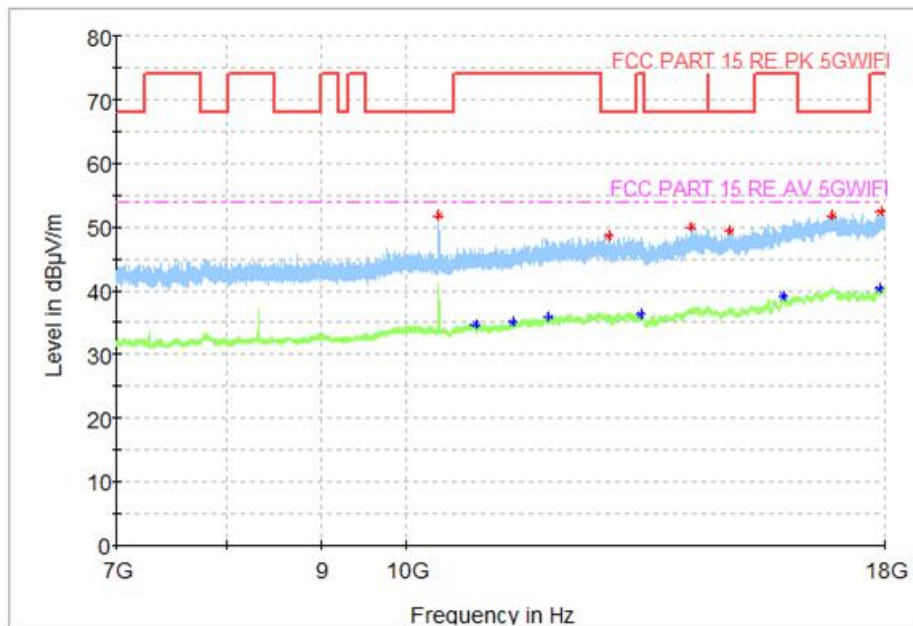
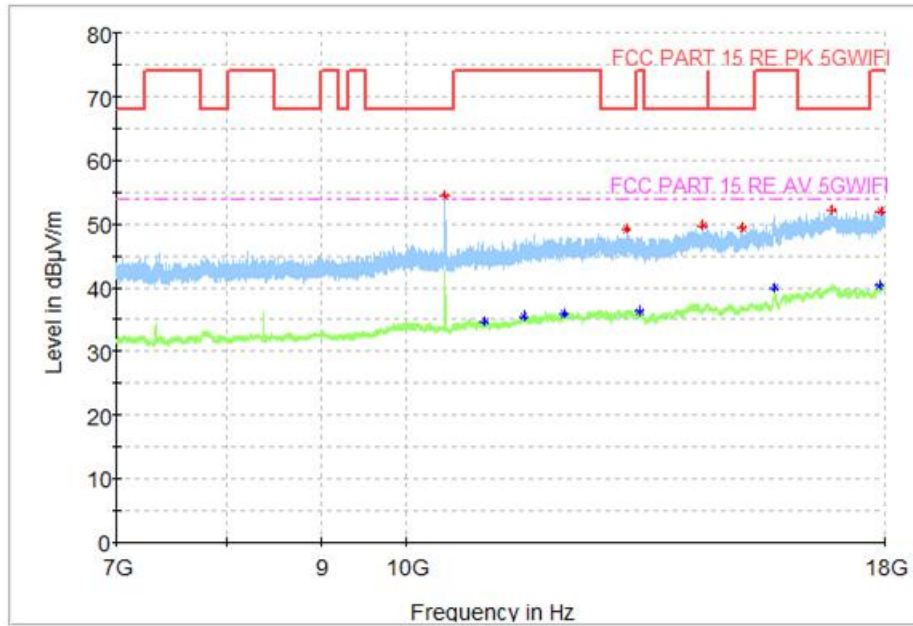
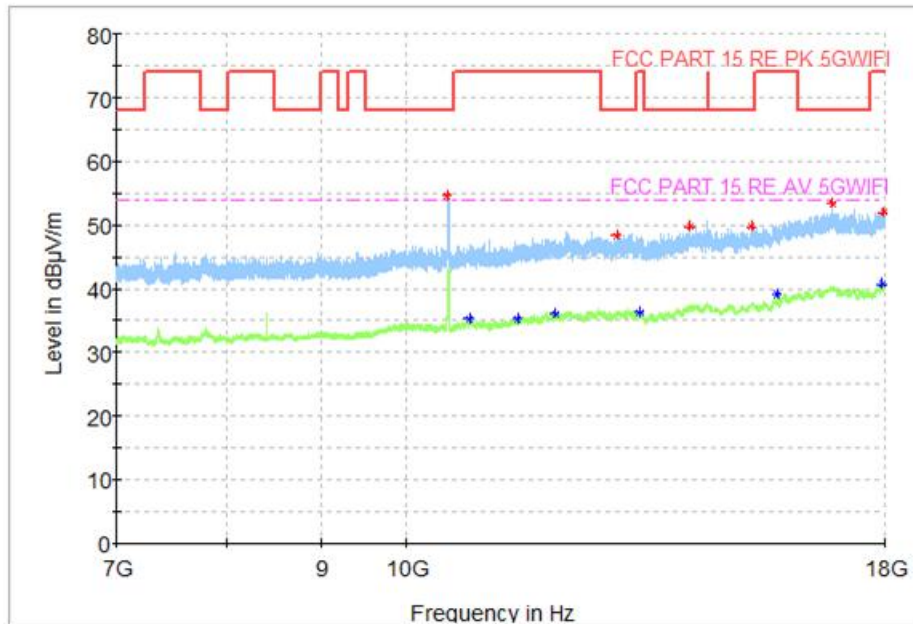


Fig. 49 Transmitter Spurious Emission (802.11a, CH40 5200MHz)



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



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

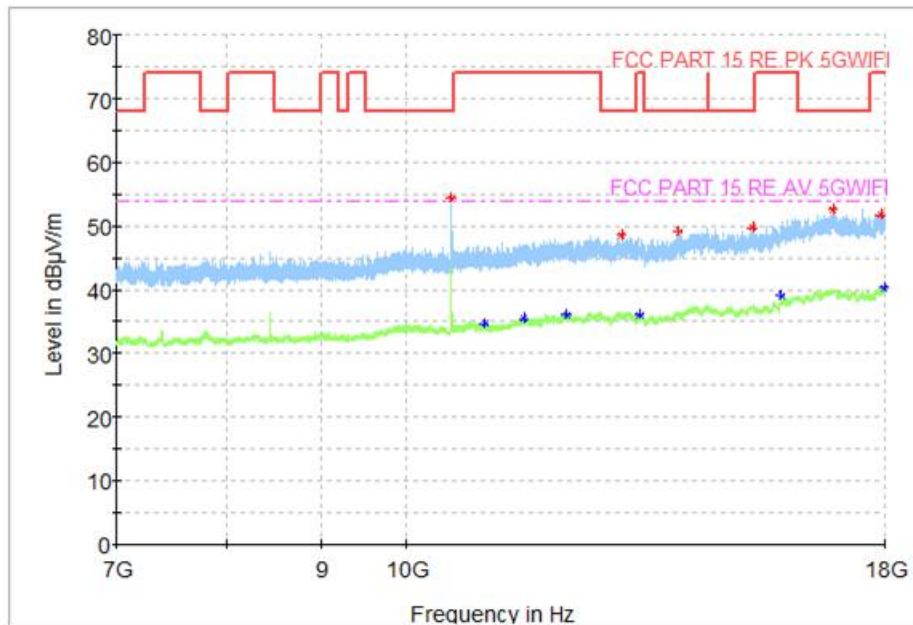


Fig. 52 Transmitter Spurious Emission (802.11a, CH56 5280MHz)

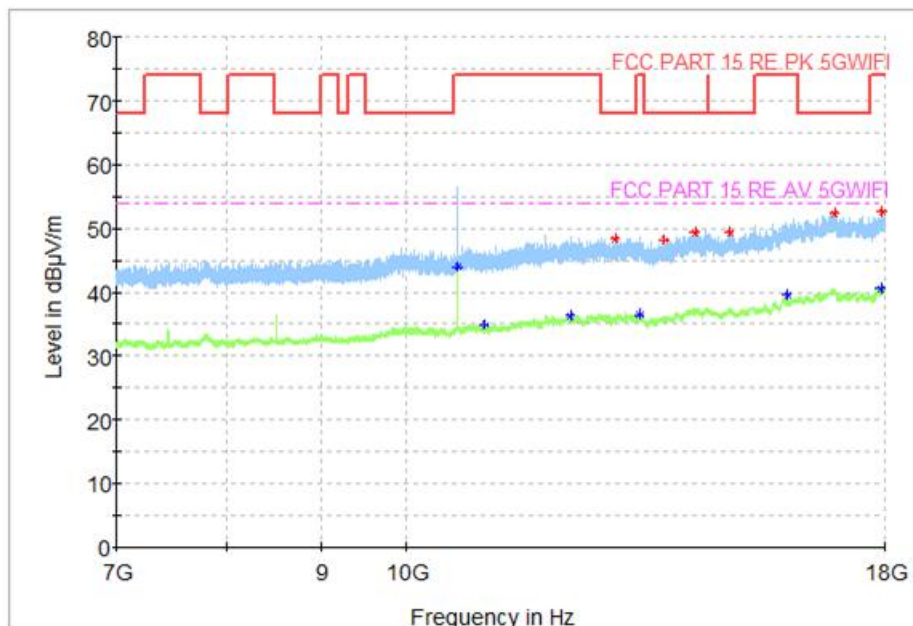


Fig. 53 Transmitter Spurious Emission (802.11a, CH64 5320MHz)



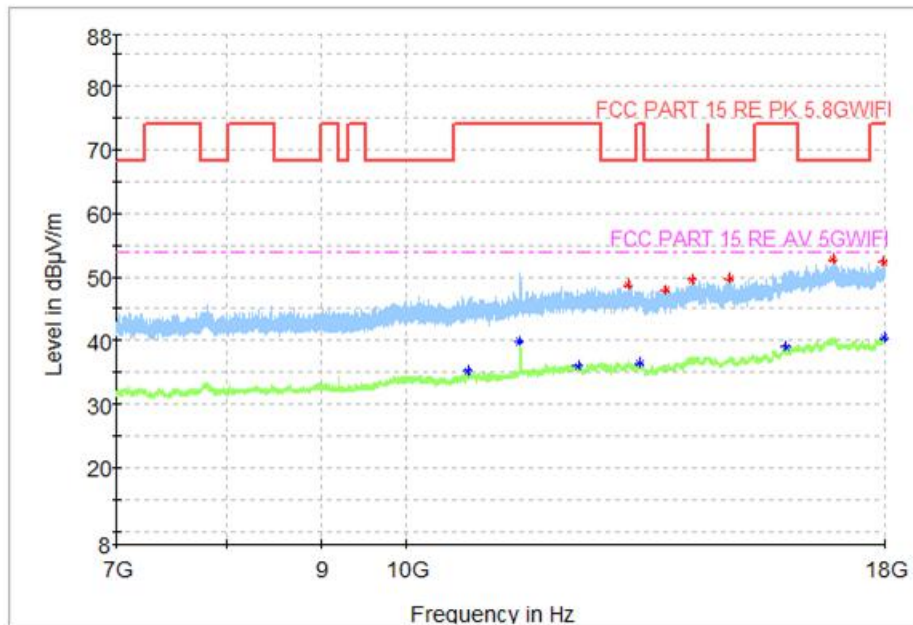


Fig. 54 Transmitter Spurious Emission (802. 11a, CH149 5745MHz)

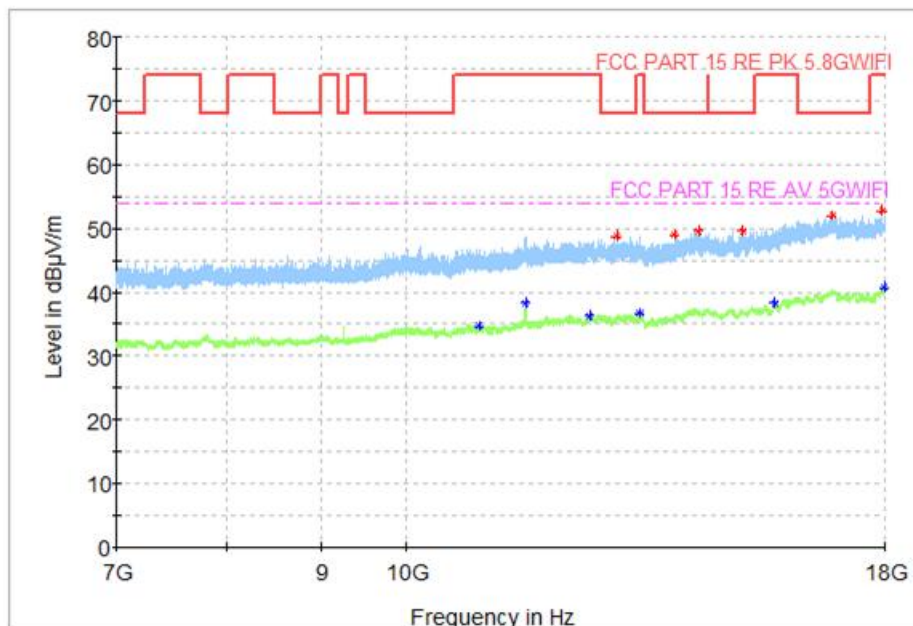


Fig. 55 Transmitter Spurious Emission (802. 11a, CH157 5785MHz)

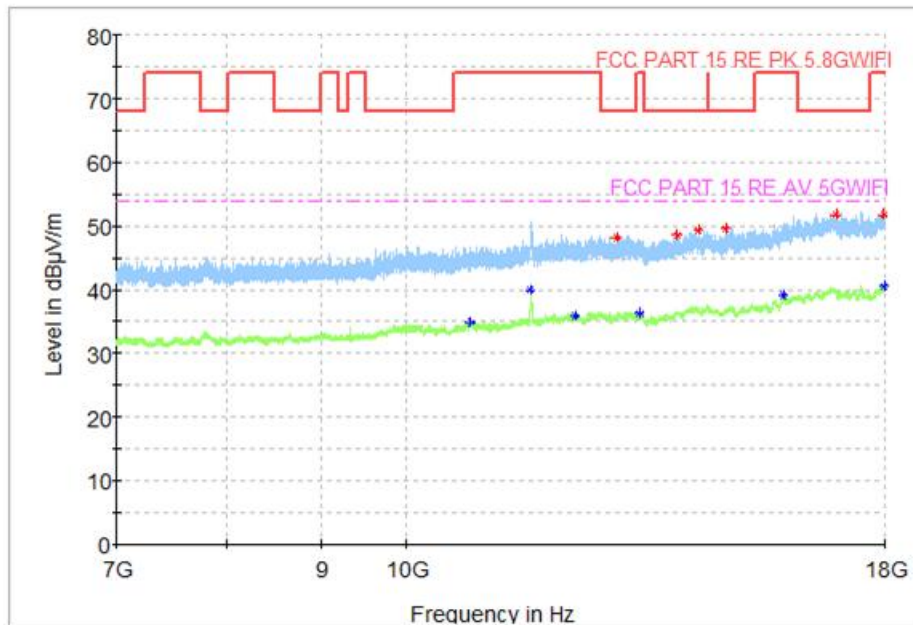


Fig. 56 Transmitter Spurious Emission (802. 11a, CH165 5825MHz)

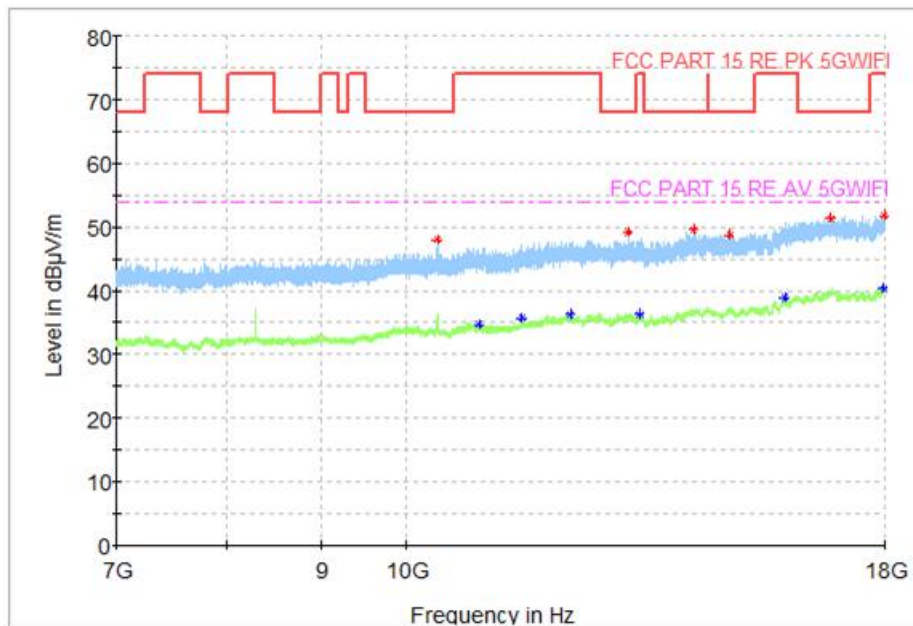


Fig. 57 Transmitter Spurious Emission (802. 11ac-VHT40, CH38 5190MHz)

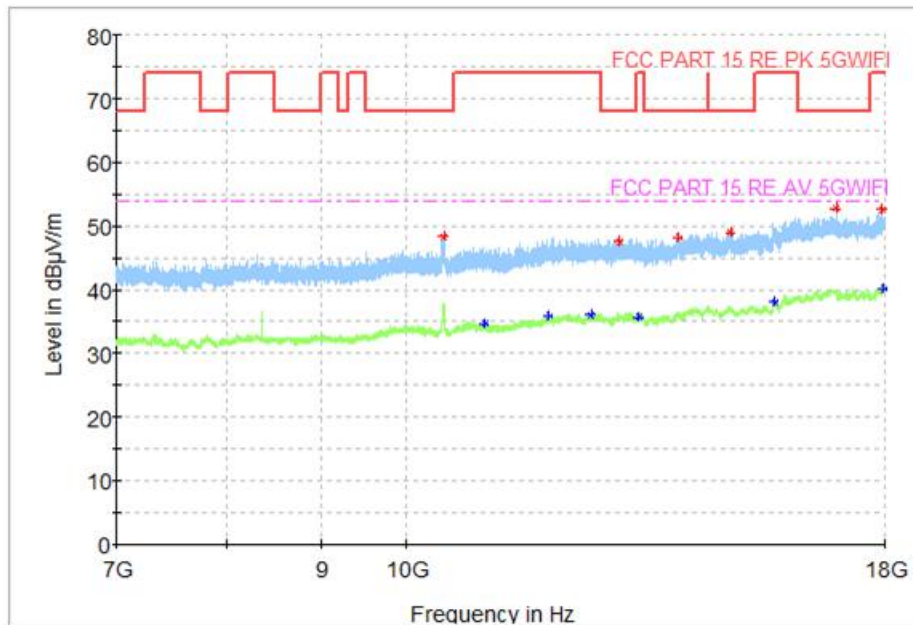


Fig. 58 Transmitter Spurious Emission (802. 11ac-VHT40, CH46 5230MHz)

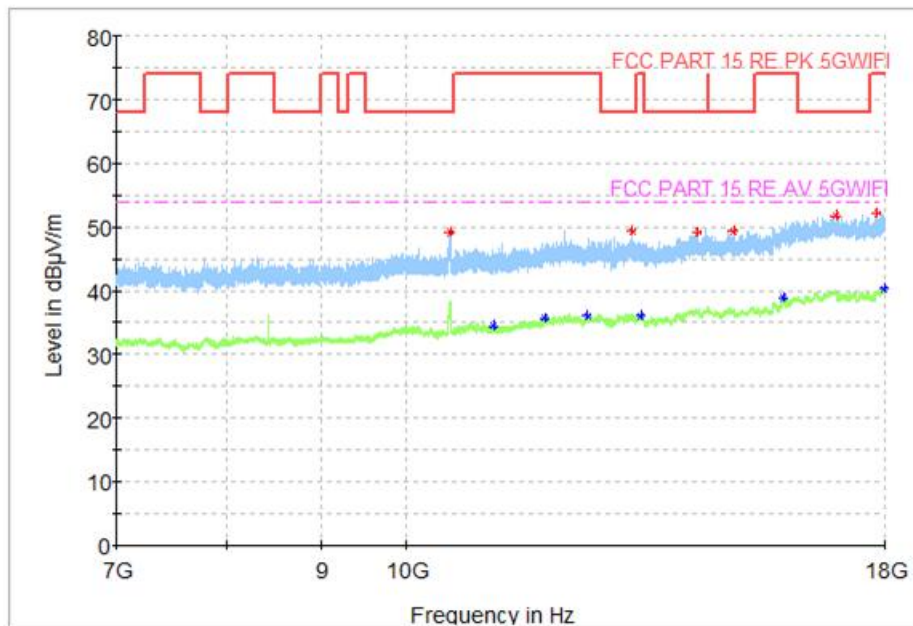
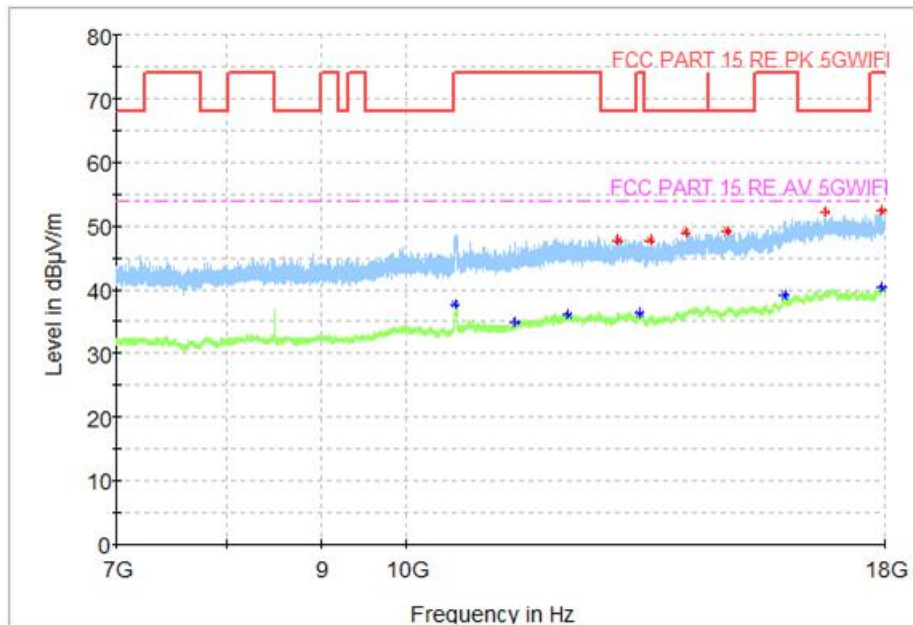
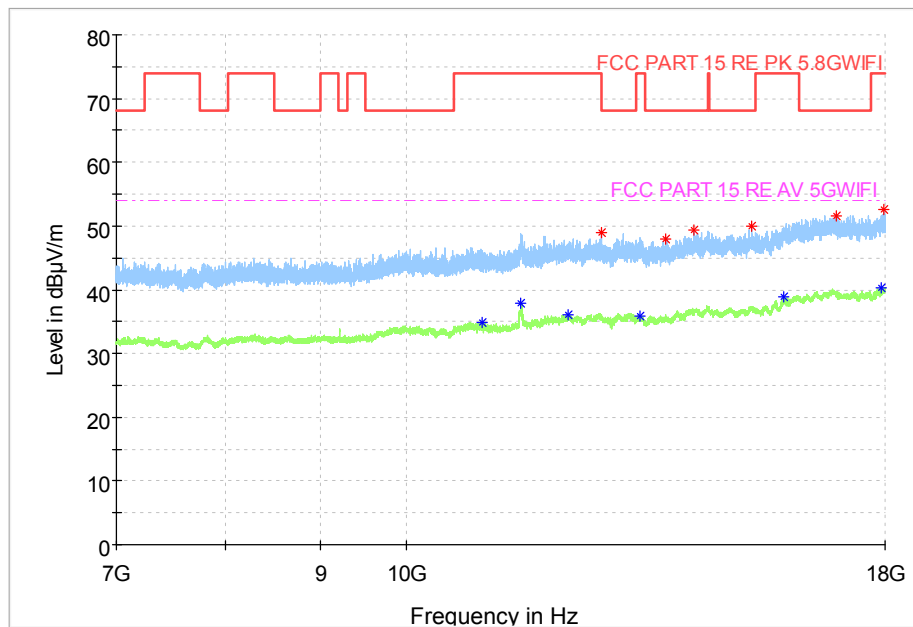


Fig. 59 Transmitter Spurious Emission (802. 11ac-VHT40, CH54 5270MHz)



**Fig. 60 Transmitter Spurious Emission (802. 11ac-VHT40, CH62 5310MHz)**



**Fig. 61 Transmitter Spurious Emission (802. 11ac-VHT40, CH151 5755MHz)**

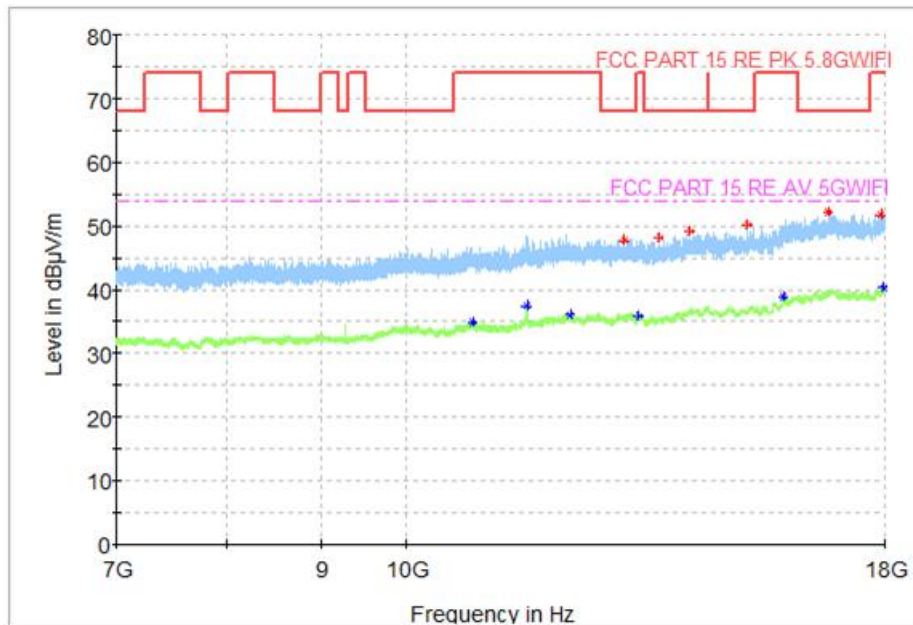


Fig. 62 Transmitter Spurious Emission (802. 11ac-VHT40, CH159 5795MHz)

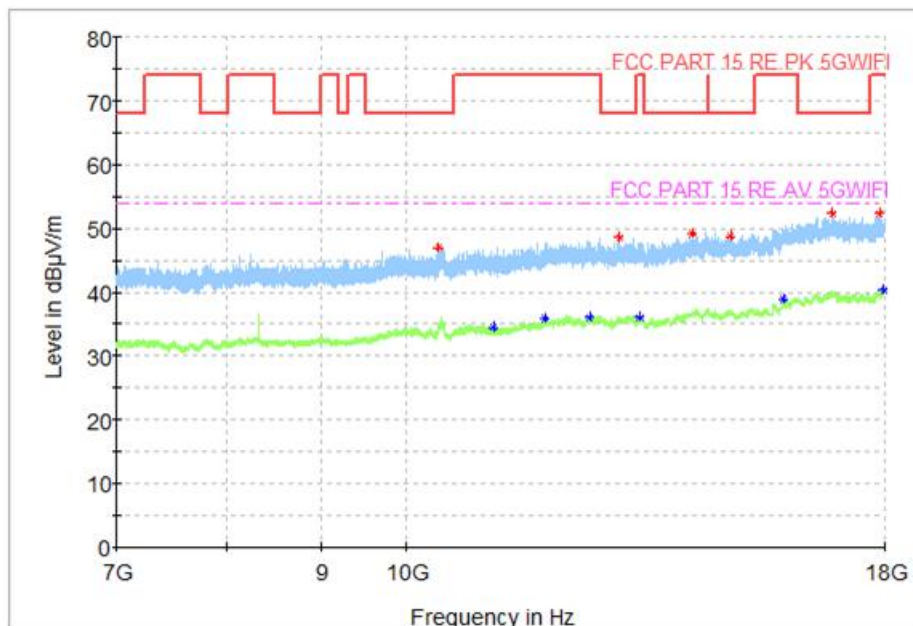


Fig. 63 Transmitter Spurious Emission (802. 11ac-VHT80, CH42 5210MHz)

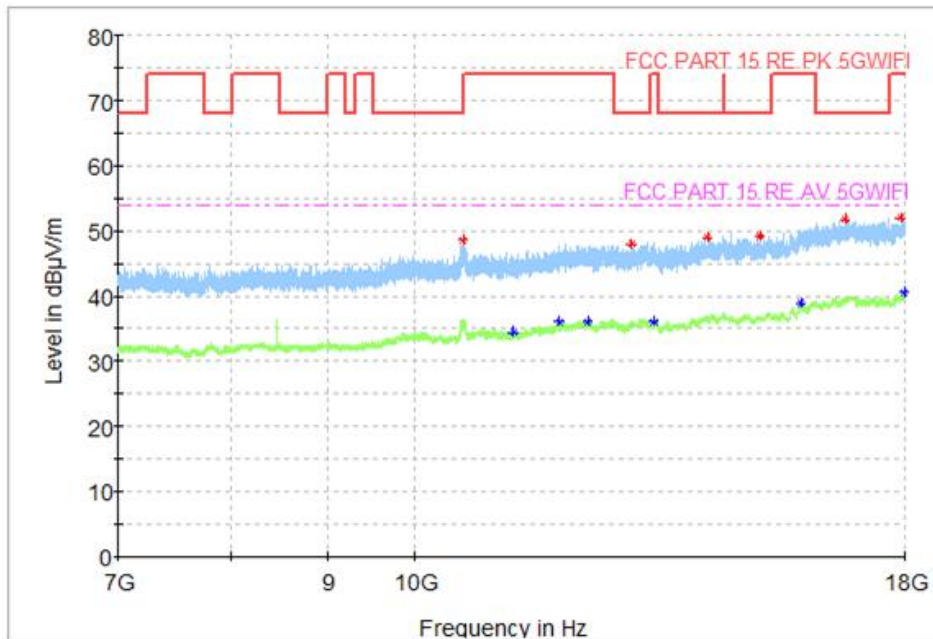


Fig. 64 Transmitter Spurious Emission (802. 11ac-VHT80, CH58 5290MHz)

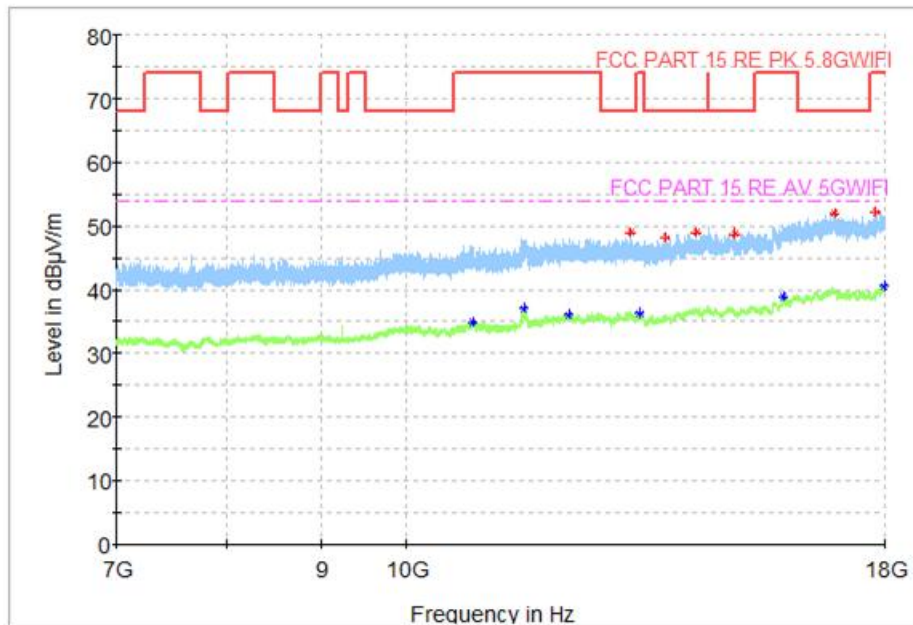
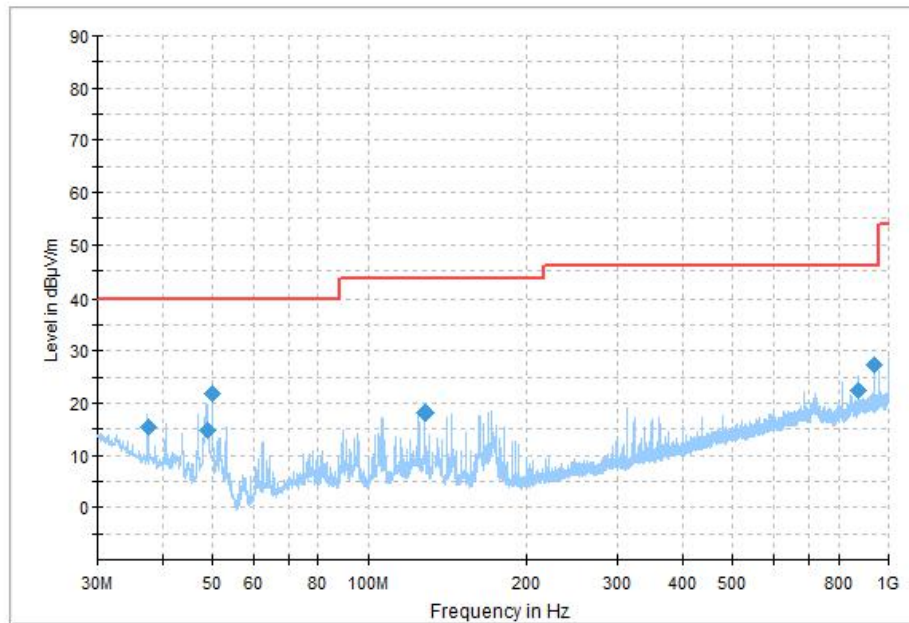
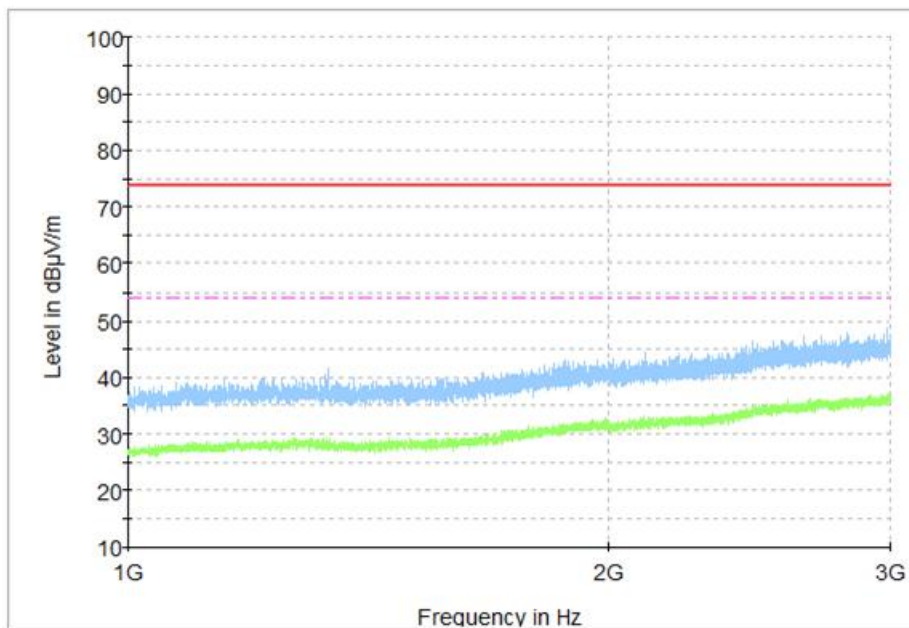


Fig. 65 Transmitter Spurious Emission (802. 11ac-VHT80, CH155 5775MHz)



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



**Fig. 67 Transmitter Spurious Emission (All channel, 1GHz~3GHz)**

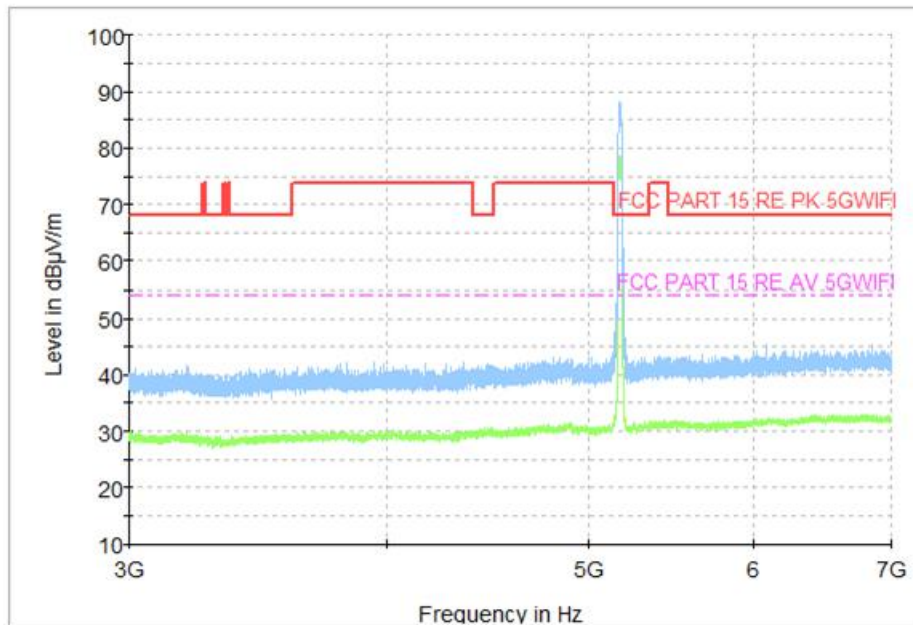


Fig. 68 Transmitter Spurious Emission (All channel, 3GHz~7GHz)

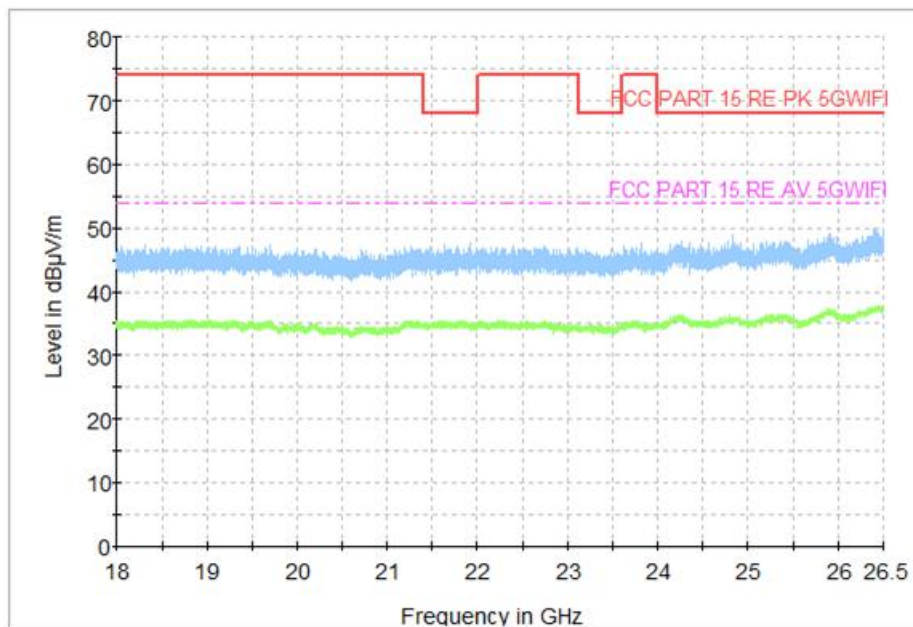


Fig. 69 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)



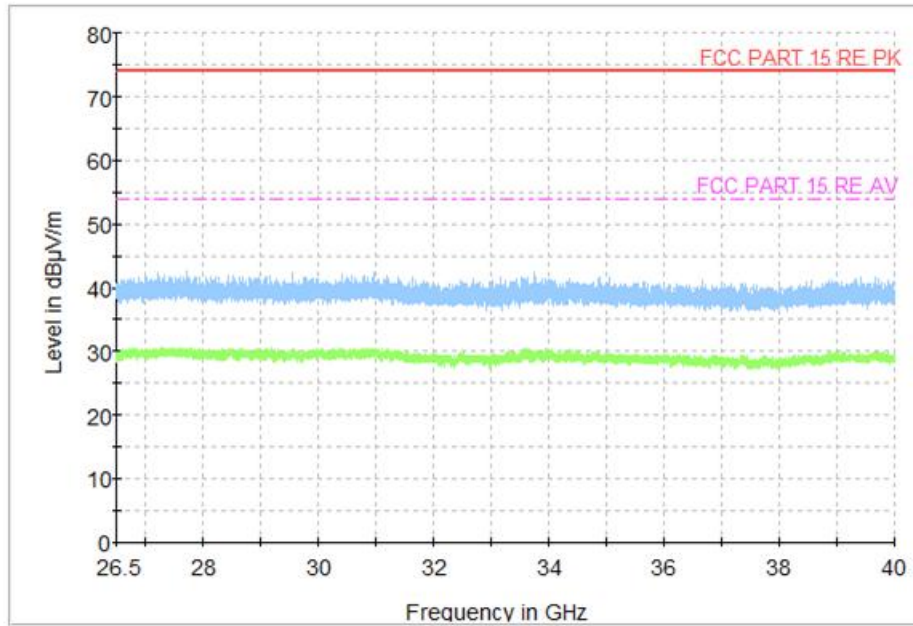


Fig. 70 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

**Worst Case Result****802.11a CH40**

Frequency (MHz)	Max Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
10394.966667	51.70	68.20	16.50	V	5.3
12820.466667	48.49	68.20	19.71	H	9.2
14177.866667	49.91	68.20	18.29	H	11.3
14877.833333	49.46	68.20	18.74	V	11.7
16879.100000	51.87	68.20	16.33	H	16.0
17916.766667	52.30	74.00	21.70	V	17.1

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
10878.233333	34.64	54.00	19.36	H	6.2
11389.366667	35.09	54.00	18.91	V	6.6
11907.833333	35.83	54.00	18.17	V	7.8
13334.533333	36.33	54.00	17.67	V	9.7
15901.933333	39.07	54.00	14.93	V	14.4
17881.200000	40.27	54.00	13.73	V	16.8

**802.11a CH56**

Frequency (MHz)	Max Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
10561.066667	54.32	68.20	13.88	V	5.3
13022.133333	48.52	68.20	19.68	H	9.1
13954.200000	49.26	68.20	18.94	H	10.2
15299.500000	49.73	68.20	18.47	H	12.4
16898.166667	52.60	68.20	15.60	H	15.9
17915.666667	51.88	74.00	22.12	V	17.1

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
11006.933333	34.60	54.00	19.40	H	6.6
11548.133333	35.57	54.00	18.43	H	7.2
12167.433333	36.04	54.00	17.96	V	8.4
13308.866667	36.14	54.00	17.86	V	9.8
15840.333333	39.11	54.00	14.89	H	13.9
17992.300000	40.31	54.00	13.69	V	16.9

## 802.11a CH149

Frequency (MHz)	Max Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
13123.700000	48.65	68.20	19.55	H	9.8
13738.233333	47.96	68.20	20.24	H	9.6
14213.066667	49.60	68.20	18.60	V	11.6
14875.633333	49.63	68.20	18.57	H	11.7
16907.700000	52.74	68.20	15.46	H	15.9
17983.500000	52.32	74.00	21.68	V	16.9

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
10790.600000	35.17	54.00	18.83	H	6.5
11490.933333	39.80	54.00	14.20	H	7.0
12341.600000	35.99	54.00	18.01	H	8.3
13309.600000	36.32	54.00	17.68	V	9.8
15933.100000	39.08	54.00	14.92	H	14.7
17987.166667	40.51	54.00	13.49	V	16.9

## 802.11ac VHT40 CH54

Frequency (MHz)	Max Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
10541.266667	49.20	68.20	19.00	V	5.4
13188.233333	49.28	68.20	18.92	V	9.8
14294.100000	49.26	68.20	18.94	H	11.7
14949.333333	49.29	68.20	18.91	H	11.8
16945.100000	51.76	68.20	16.44	H	15.8
17824.733333	52.13	74.00	21.87	V	16.5

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
11136.000000	34.38	54.00	19.62	V	6.0
11848.800000	35.60	54.00	18.40	V	8.0
12487.166667	36.02	54.00	17.98	V	8.9
13334.900000	36.13	54.00	17.87	V	9.7
15901.933333	38.89	54.00	15.11	V	14.4
17992.666667	40.32	54.00	13.68	H	16.9



**802.11ac VHT40 CH62**

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
12959.066667	47.74	68.20	20.46	H	9.2
13480.100000	47.67	68.20	20.53	H	9.1
14108.200000	48.90	68.20	19.30	V	10.7
14821.366667	49.11	68.20	19.09	H	11.3
16744.166667	52.11	68.20	16.09	H	15.6
17956.366667	52.38	74.00	21.62	H	17.0

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
10619.000000	37.70	54.00	16.30	V	5.5
11432.266667	34.82	54.00	19.18	V	6.8
12186.133333	36.15	54.00	17.85	H	8.4
13309.600000	36.20	54.00	17.80	V	9.8
15905.600000	39.07	54.00	14.93	V	14.3
17944.266667	40.35	54.00	13.65	H	17.3

**802.11ac VHT40 CH159**

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
13077.500000	47.84	68.20	20.36	H	9.4
13630.066667	48.11	68.20	20.09	V	9.1
14161.000000	49.09	68.20	19.11	V	11.3
15217.000000	50.17	68.20	18.03	H	11.8
16788.900000	52.18	68.20	16.02	V	15.8
17919.333333	51.84	74.00	22.16	H	17.0

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
10858.066667	34.87	54.00	19.13	V	6.3
11589.200000	37.43	54.00	16.57	H	7.1
12222.800000	35.99	54.00	18.01	V	8.7
13307.033333	35.87	54.00	18.13	V	9.8
15900.466667	38.83	54.00	15.17	V	14.5
17983.500000	40.28	54.00	13.72	H	16.9



## 802.11ac VHT80 CH42

Frequency (MHz)	Max Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
10399.733333	46.87	68.20	21.33	V	5.4
12979.233333	48.52	68.20	19.68	V	9.1
14213.066667	49.09	68.20	19.11	H	11.6
14896.900000	48.76	68.20	19.44	H	11.7
16873.233333	52.40	68.20	15.80	H	15.9
17890.366667	52.30	74.00	21.70	V	16.3

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
11125.733333	34.49	54.00	19.51	V	6.2
11847.333333	35.79	54.00	18.21	V	7.9
12528.966667	36.00	54.00	18.00	H	8.6
13312.900000	36.07	54.00	17.93	V	9.7
15897.166667	38.92	54.00	15.08	H	14.4
17982.400000	40.28	54.00	13.72	H	16.9

## 802.11ac VHT80 CH58

Frequency (MHz)	Max Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
10599.933333	48.63	68.20	19.57	V	5.5
12966.766667	48.00	68.20	20.20	H	9.4
14215.633333	48.96	68.20	19.24	H	11.7
15126.433333	49.26	68.20	18.94	V	11.8
16775.333333	51.83	68.20	16.37	H	15.7
17917.866667	52.00	74.00	22.00	V	17.1

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB)
11250.400000	34.39	54.00	19.61	H	6.1
11887.300000	36.02	54.00	17.98	H	7.9
12306.400000	36.01	54.00	17.99	H	8.3
13312.900000	36.15	54.00	17.85	H	9.7
15904.133333	38.93	54.00	15.07	V	14.4
17994.133333	40.49	54.00	13.51	H	16.9

**802.11ac VHT80 CH155**

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13174.666667	48.98	68.20	19.22	V	9.4
13744.100000	48.07	68.20	20.13	V	9.5
14283.833333	48.93	68.20	19.27	V	11.7
14963.266667	48.75	68.20	19.45	H	11.6
16913.200000	52.05	68.20	16.15	V	16.0
17812.266667	52.13	74.00	21.87	H	16.3

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
10852.566667	34.82	54.00	19.18	V	6.4
11548.133333	37.11	54.00	16.89	H	7.2
12222.433333	36.04	54.00	17.96	H	8.7
13317.300000	36.29	54.00	17.71	V	9.5
15900.833333	38.87	54.00	15.13	V	14.5
17990.100000	40.48	54.00	13.52	V	16.9

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

### A.9. Radiated Spurious Emissions < 30MHz

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

Frequency (MHz)	Field strength ( $\mu\text{V}/\text{m}$ )	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.71	P

Conclusion: PASS

Test graphs as below:

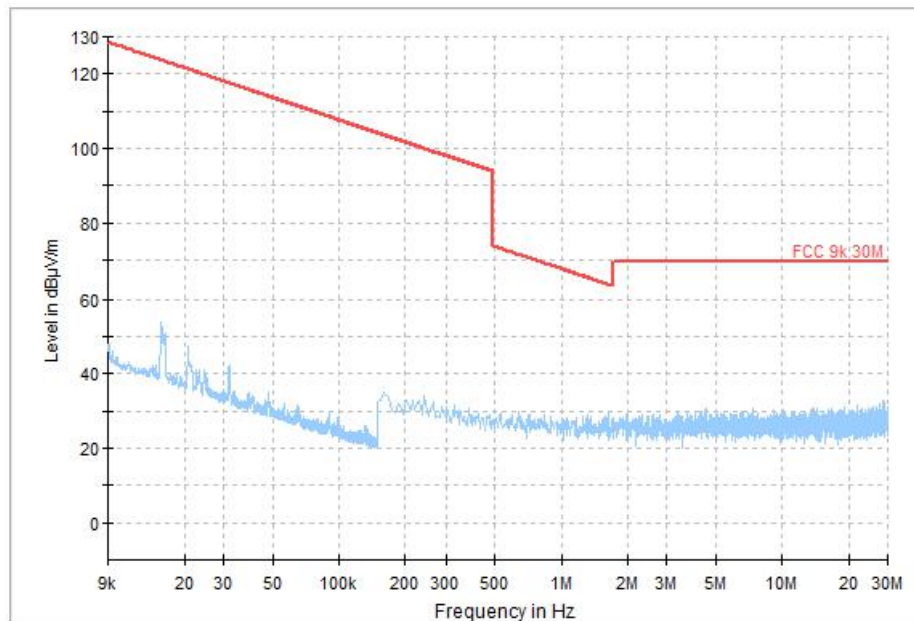


Fig. 71 Radiated Spurious Emission (All Channel, 9 kHz ~ 30 MHz)

## A.10. AC Power Line Conducted Emission

### Test Condition:

Voltage (V)	Frequency (Hz)
120	60

### Measurement Result and limit:

RLAN (Quasi-peak Limit) - AE2

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.72	Fig.73	<b>P</b>
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) - AE2

Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.72	Fig.73	<b>P</b>
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.

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

**Conclusion: PASS**

Test graphs as below:



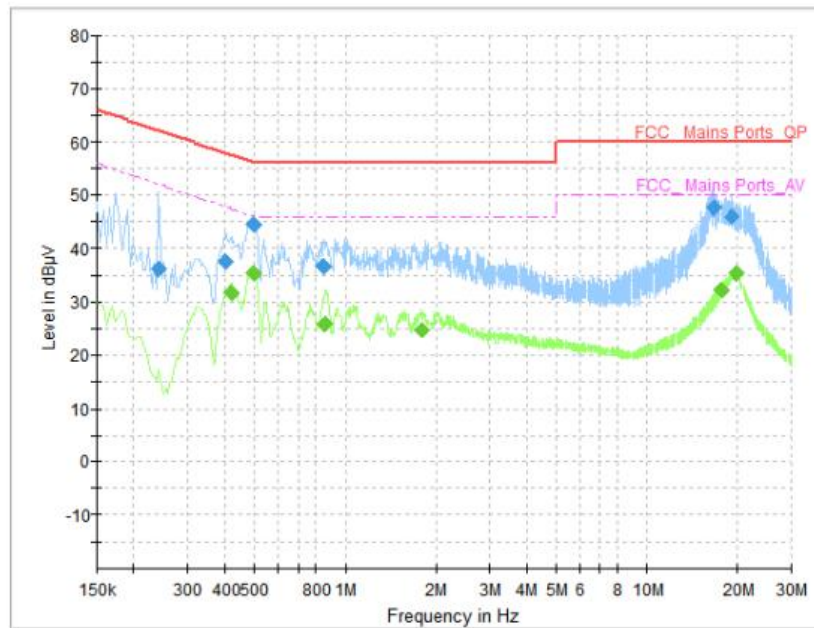


Fig. 72 AC Power line Conducted Emission (Traffic)

**Measurement Result: Quasi Peak**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.242000	36.10	62.03	25.92	N	ON	10
0.402000	37.65	57.81	20.16	N	ON	10
0.498000	44.43	56.03	11.61	N	ON	10
0.850000	36.62	56.00	19.38	N	ON	10
16.566000	47.69	60.00	12.31	L1	ON	10
19.022000	46.02	60.00	13.98	L1	ON	10

**Measurement Result: Average**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.418000	31.62	47.49	15.87	L1	ON	10
0.498000	35.26	46.03	10.77	L1	ON	10
0.858000	25.70	46.00	20.30	L1	ON	10
1.794000	24.58	46.00	21.42	L1	ON	10
17.614000	32.29	50.00	17.71	N	ON	11
19.634000	35.38	50.00	14.62	N	ON	10

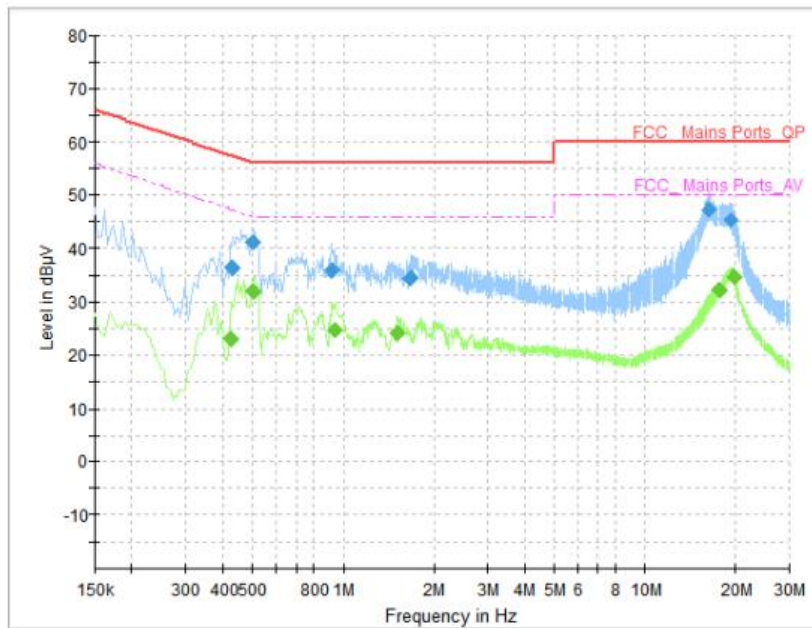


Fig. 73 AC Power line Conducted Emission (Idle)

**Measurement Result: Quasi Peak**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.430000	36.41	57.25	20.84	N	ON	10
0.506000	41.29	56.00	14.71	N	ON	10
0.922000	35.90	56.00	20.10	N	ON	10
1.674000	34.48	56.00	21.52	N	ON	10
16.302000	47.45	60.00	12.55	L1	ON	10
19.194000	45.28	60.00	14.72	L1	ON	10

**Measurement Result: Average**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.426000	23.11	47.33	24.22	L1	ON	10
0.506000	31.85	46.00	14.15	L1	ON	10
0.934000	24.68	46.00	21.32	L1	ON	10
1.518000	24.05	46.00	21.95	L1	ON	10
17.614000	32.15	50.00	17.85	N	ON	11
19.678000	34.83	50.00	15.17	N	ON	10



**A.11. 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 \*\*\***