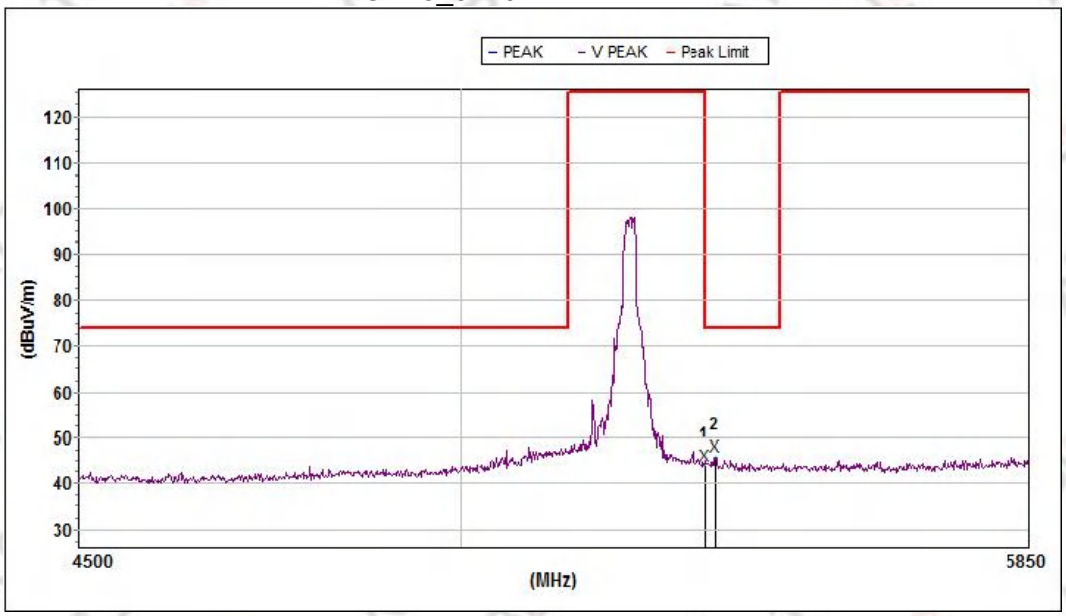
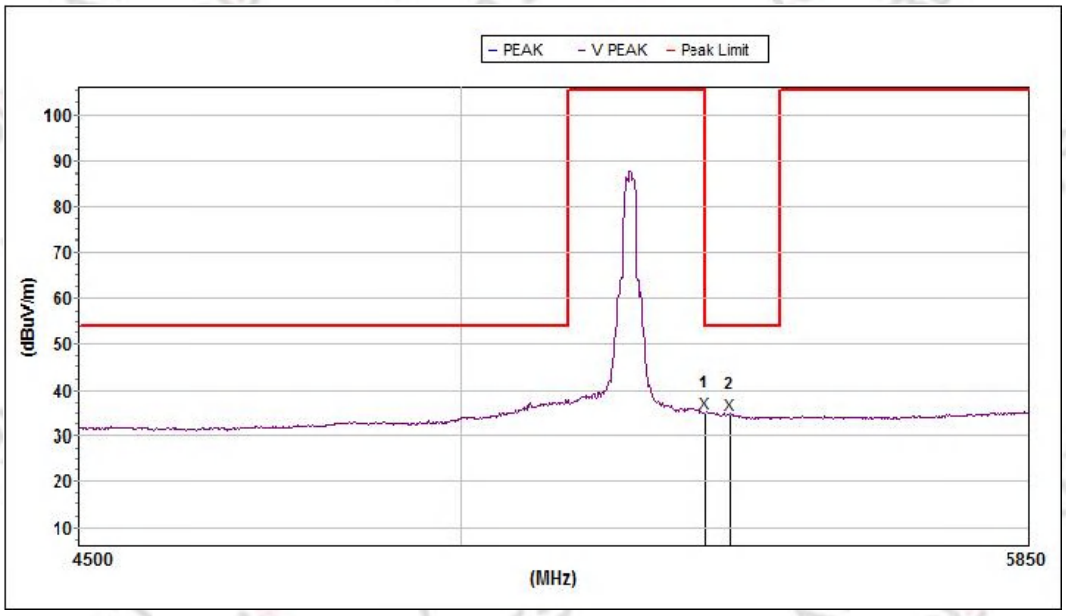
CH48_5240MHz Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
Peak								
1	5350.010000	44.0	74.0	30.0	32.8	57.9	3.9	V
2	5364.812646	46.0	74.0	28.0	32.8	57.9	3.9	V

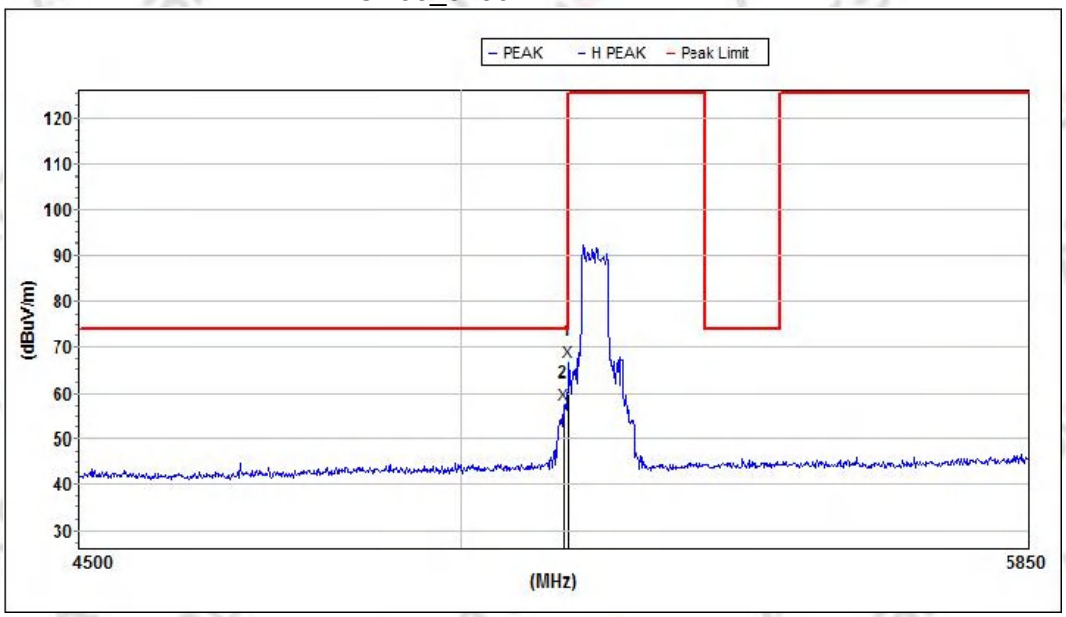
Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
AVG								
1	5350.010000	35.0	54.0	19.0	32.7	57.9	3.9	V
2	5385.967272	34.6	54.0	19.4	32.7	58.0	3.9	V

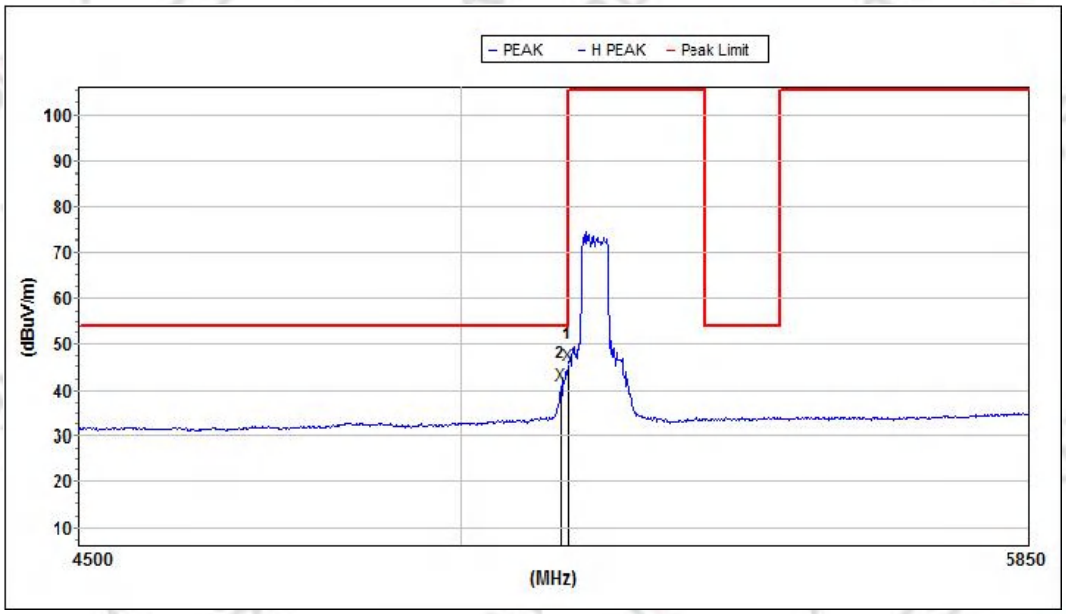
802.11n40

CH38_5190MHz Horizontal



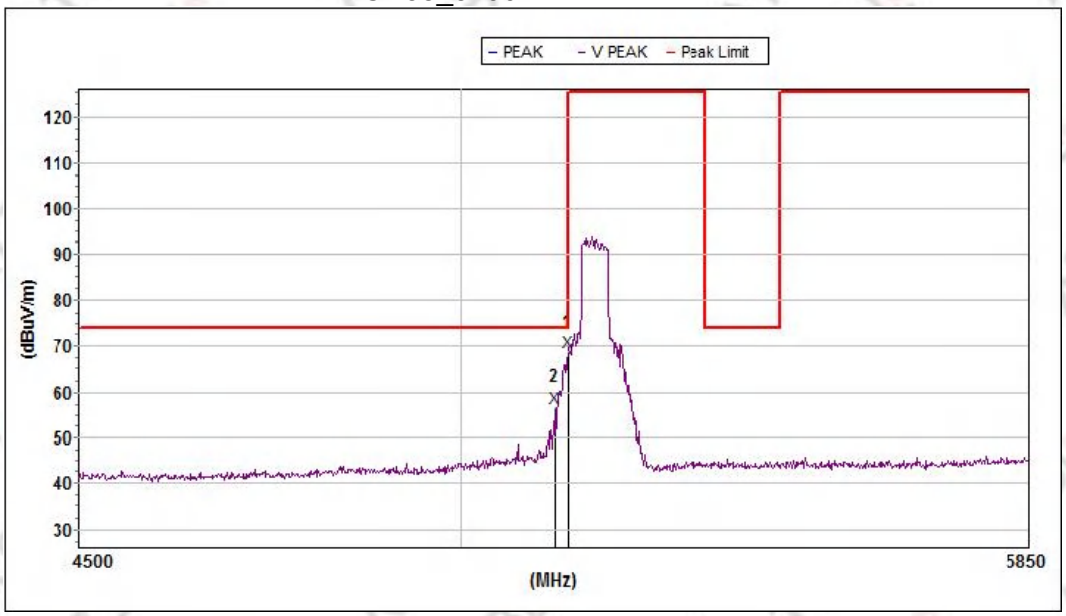
Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
Peak								
1	5150.000000	66.7	74.0	7.3	33.0	57.5	3.7	H
2	5144.268445	57.5	74.0	16.5	33.0	57.5	3.7	H

Horizontal



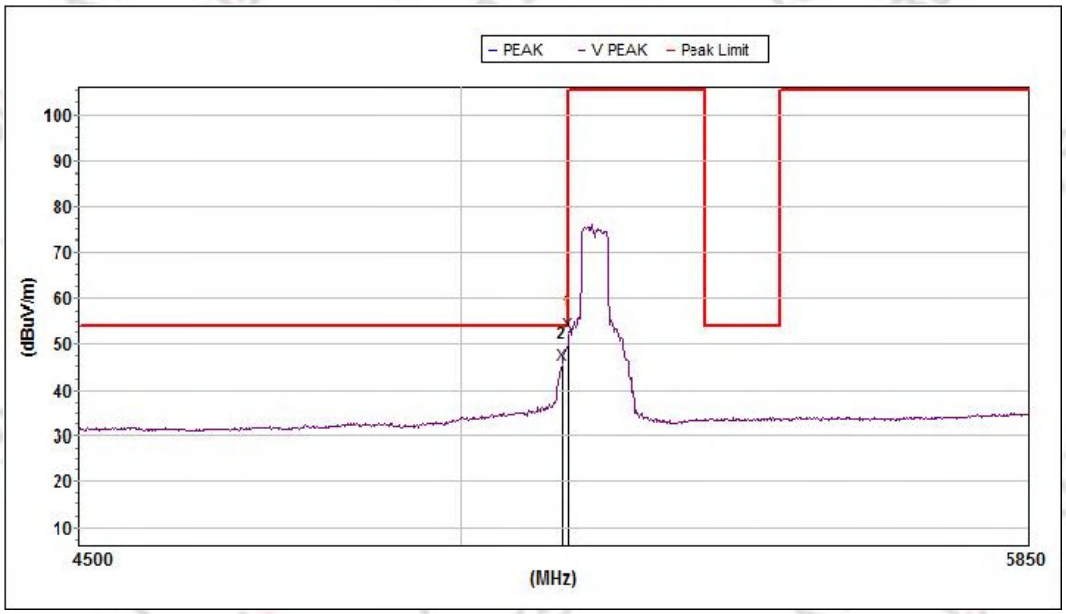
Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
AVG								
1	5150.000000	45.5	54.0	8.5	33.0	57.5	3.7	H
2	5140.221022	41.2	54.0	12.8	33.0	57.5	3.7	H

CH38_5190MHz Vertical



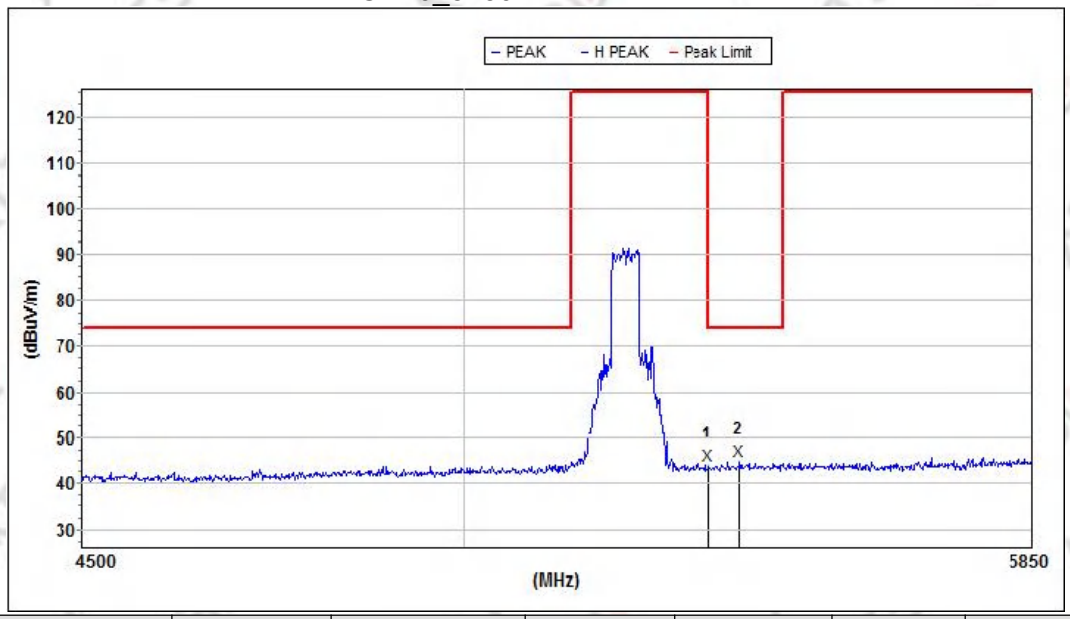
Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
Peak								
1	5150.000000	68.8	74.0	5.2	33.0	57.5	3.7	V
2	5130.789413	56.7	74.0	17.3	33.0	57.5	3.7	V

Vertical



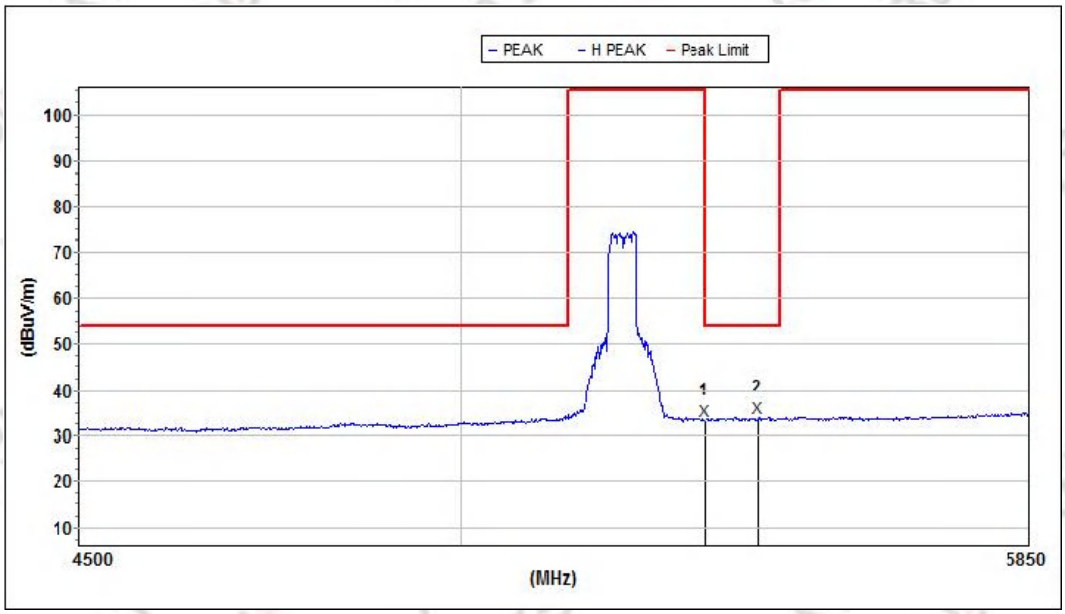
Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
AVG								
1	5150.000000	52.5	54.0	1.5	33.0	57.5	3.7	V
2	5141.569809	45.5	54.0	8.5	33.0	57.5	3.7	V

CH46_5230MHz Horizontal



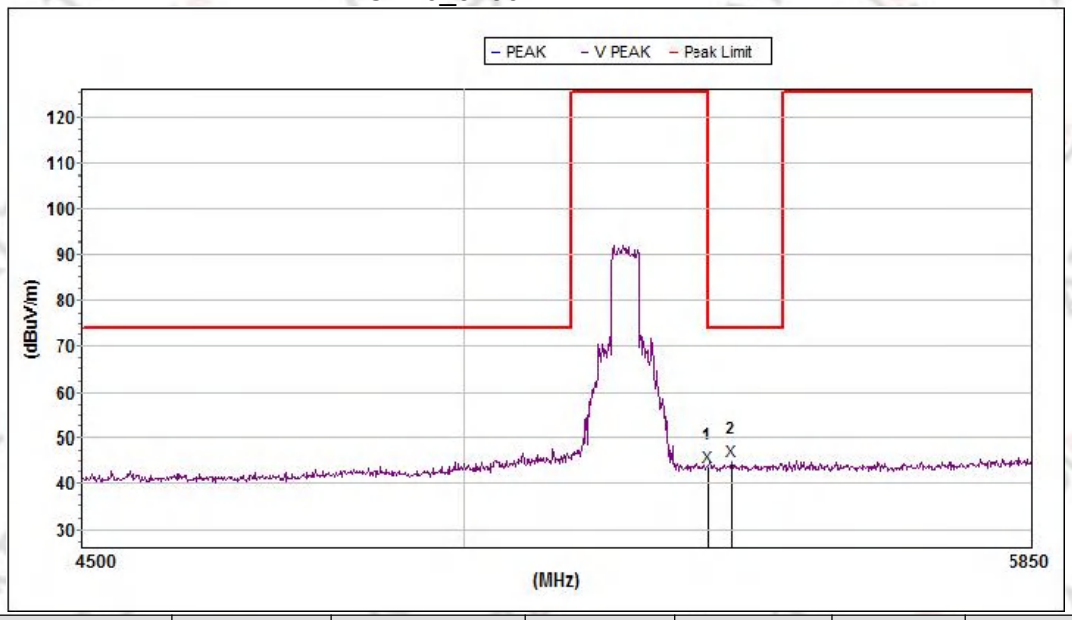
Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
Peak								
1	5350.010000	44.0	74.0	30.0	32.8	57.9	3.9	H
2	5395.867958	45.2	74.0	28.8	32.7	58.0	3.9	H

Horizontal



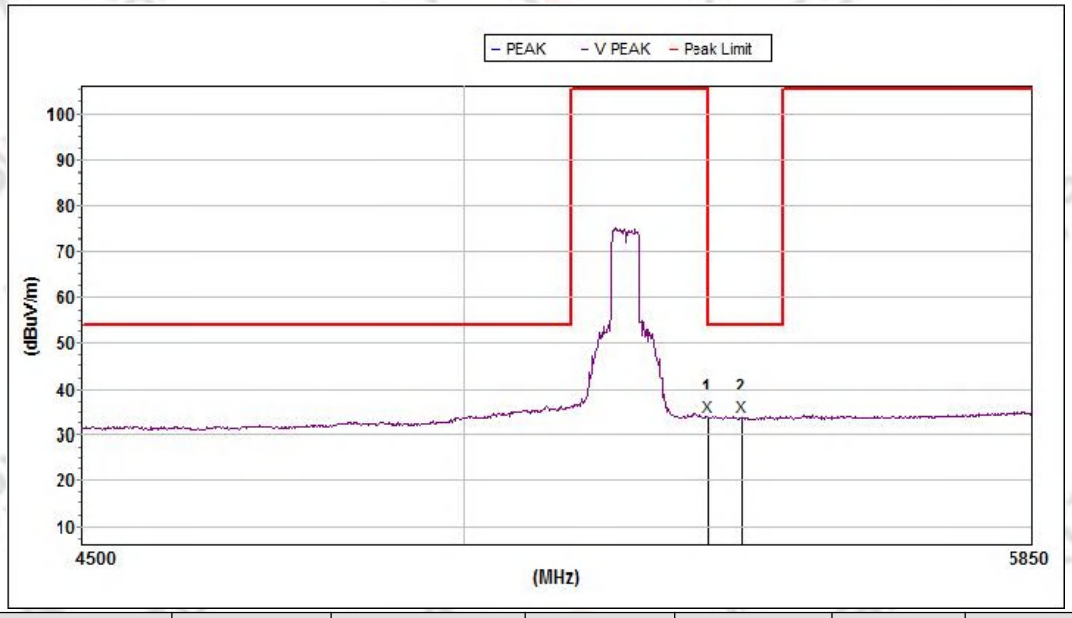
Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
AVG								
1	5350.010000	33.4	54.0	20.6	32.8	57.9	3.9	H
2	5428.527106	33.9	54.0	20.1	32.7	58.0	3.9	H

CH46_5230MHz Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
Peak								
1	5350.010000	43.7	74.0	30.3	32.8	57.9	3.9	V
2	5384.554372	45.0	74.0	29.0	32.8	58.0	3.9	V

Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Cbl.L.	Pol.
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	
AVG								
1	5350.010000	33.8	54.0	20.2	32.8	57.9	3.9	V
2	5398.700067	33.9	54.0	20.1	32.7	58.0	3.9	V

Note：

All modes have been tested, the worst case is 802.11a and 802.11n40, only show the worst case.

4. POWER SPECTRAL DENSITY TEST

4.1. LIMIT

4.1.1 For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.1.2 For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.1.3 For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2. TEST PROCEDURE

The setting follows Method SA-1 of FCC KDB D02 General UNII Test Procedures New Rules v01r03.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBW less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.,* 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/*T*, where *T* is defined in section II.B.l.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

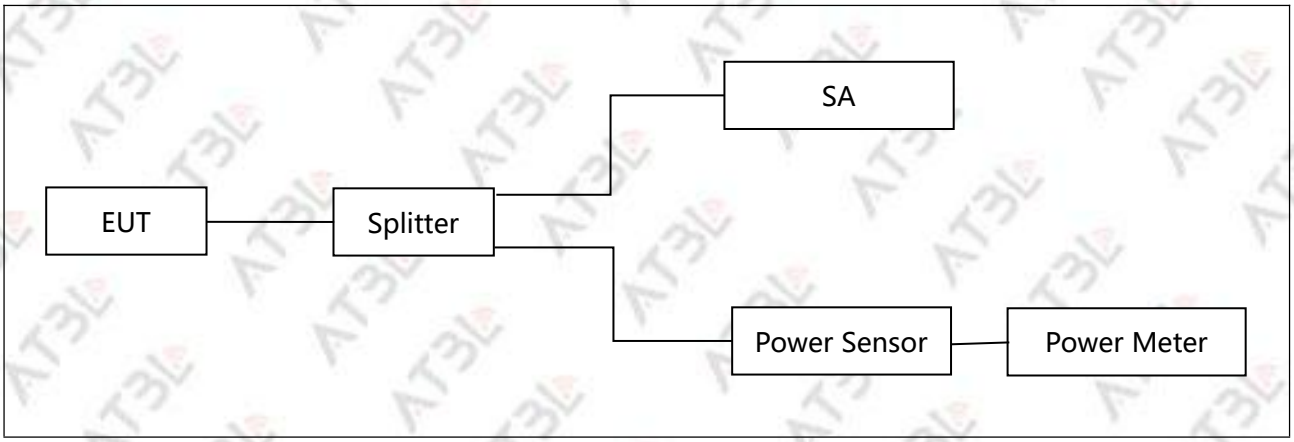
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

4.3. DEVIATION FROM STANDARD

No deviation.

4.4. TEST SETUP



4.5. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6. TEST RESULTS

5150MHz-5250MHz

802.11a

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	PSD Reading (dBm/MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	0	3.01	3.52	2.957	6.477	17	PASS
40	5200	0	3.01	3.52	2.458	5.978	17	PASS
48	5240	0	3.01	3.52	3.009	6.529	17	PASS
36	5180	1	3.01	3.57	2.030	5.600	17	PASS
40	5200	1	3.01	3.57	2.099	5.669	17	PASS
48	5240	1	3.01	3.57	3.035	6.605	17	PASS

CH.	Freq. MHz	Ant. No.	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	0+1	9.071	17	PASS
40	5200	0+1	8.837	17	PASS
48	5240	0+1	9.577	17	PASS

802.11n20

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	PSD Reading (dBm/MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	0	3.01	3.99	1.682	5.672	17	PASS
40	5200	0	3.01	3.99	1.922	5.912	17	PASS
48	5240	0	3.01	3.99	1.125	5.115	17	PASS
36	5180	1	3.01	4.02	1.040	5.060	17	PASS
40	5200	1	3.01	4.02	1.707	5.727	17	PASS
48	5240	1	3.01	4.02	1.058	5.078	17	PASS

CH.	Freq. MHz	Ant. No.	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	0+1	8.387	17	PASS
40	5200	0+1	8.831	17	PASS
48	5240	0+1	8.107	17	PASS

802.11n40

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	PSD Reading (dBm/MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
38	5190	0	3.01	5.91	-2.042	3.868	17	PASS
46	5230	0	3.01	5.91	-2.310	3.600	17	PASS
38	5190	1	3.01	5.98	-2.593	3.387	17	PASS
46	5230	1	3.01	5.98	-2.710	3.270	17	PASS

CH.	Freq. MHz	Ant. No.	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
38	5190	0+1	6.644	17	PASS
46	5230	0+1	6.448	17	PASS

802.11ac80

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	PSD Reading (dBm/MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
42	5210	0	3.01	8.26	-7.271	0.989	17	PASS
42	5210	1	3.01	8.12	-8.539	-0.419	17	PASS

CH.	Freq. MHz	Ant. No.	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
42	5210	0+1	3.352	17	PASS

802.11ax20

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	PSD Reading (dBm/MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	0	3.01	6.55	-1.812	4.738	17	PASS
40	5200	0	3.01	6.55	-3.134	3.416	17	PASS
48	5240	0	3.01	6.55	-2.654	3.896	17	PASS
36	5180	1	3.01	6.46	-2.898	3.562	17	PASS
40	5200	1	3.01	6.46	-2.980	3.480	17	PASS
48	5240	1	3.01	6.46	-2.902	3.558	17	PASS

CH.	Freq. MHz	Ant. No.	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	0+1	7.200	17	PASS
40	5200	0+1	6.458	17	PASS
48	5240	0+1	6.741	17	PASS

802.11ax40

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	PSD Reading (dBm/MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
38	5190	0	3.01	6.76	-7.266	-0.506	17	PASS
46	5230	0	3.01	6.76	-5.503	1.257	17	PASS
38	5190	1	3.01	6.80	-7.928	-1.128	17	PASS
46	5230	1	3.01	6.80	-5.838	0.962	17	PASS

CH.	Freq. MHz	Ant. No.	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
38	5190	0+1	2.204	17	PASS
46	5230	0+1	4.122	17	PASS

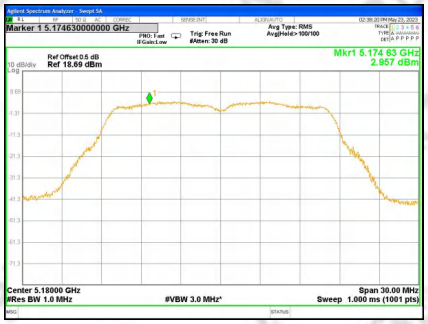
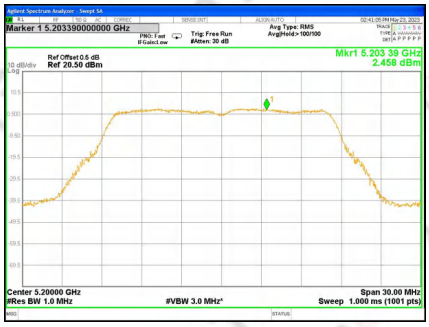
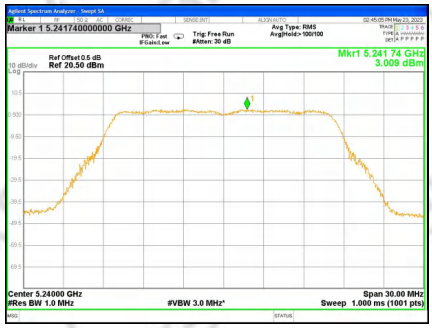
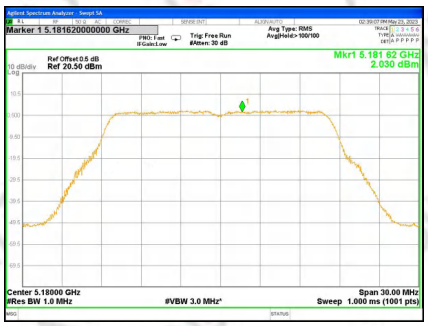
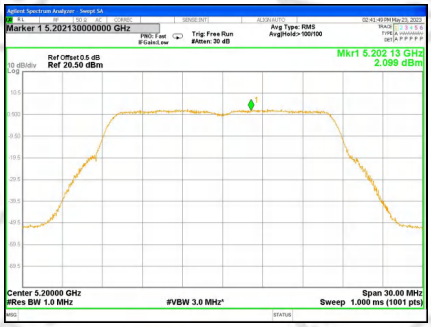
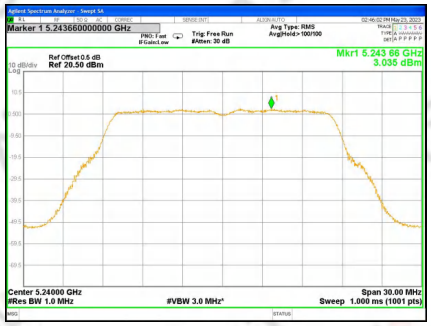
802.11ax80

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	PSD Reading (dBm/MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
42	5210	0	3.01	7.31	-7.131	0.179	17	PASS
42	5210	1	3.01	7.19	-7.860	-0.670	17	PASS

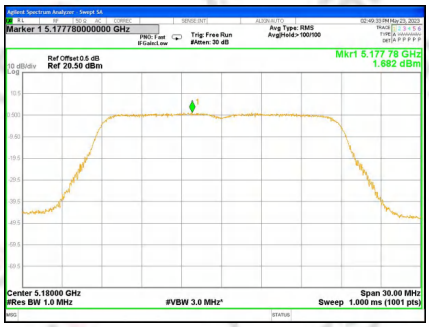
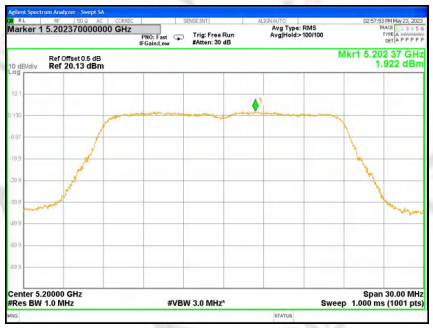
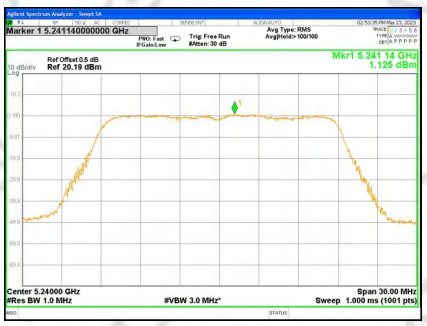
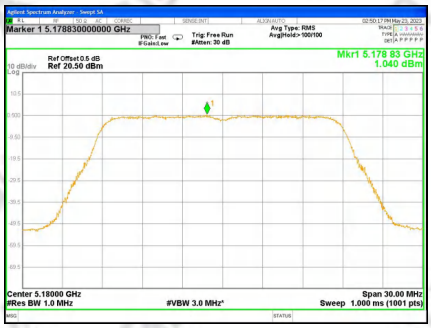
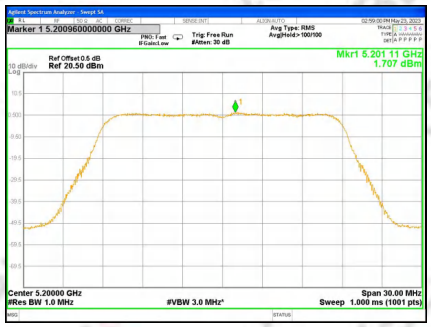
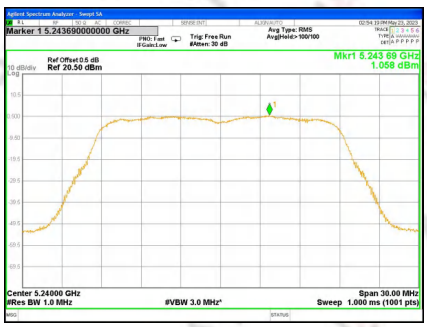
CH.	Freq. MHz	Ant. No.	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
42	5210	0+1	2.786	17	PASS

5150MHz-5250MHz

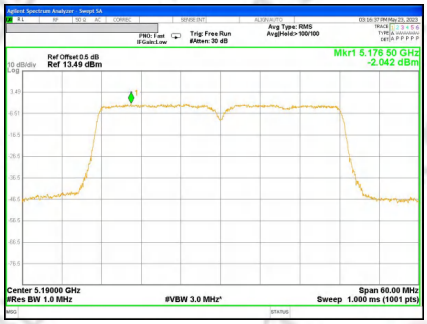
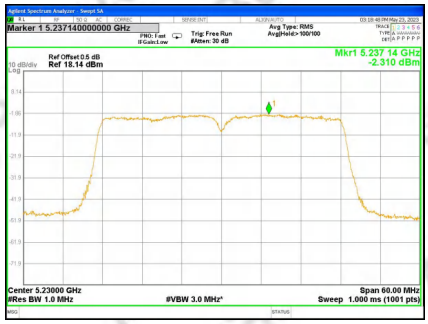
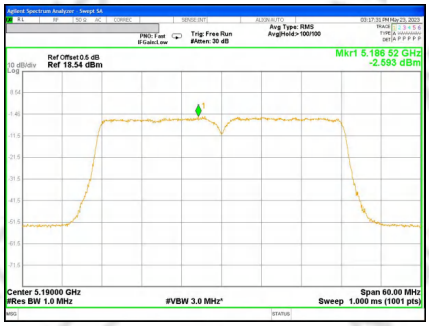
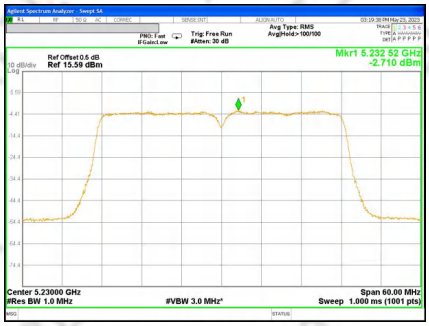
802.11a

CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		
CH36_Ant. 1	**CH40_Ant. 1**	**CH48_Ant. 1**
		

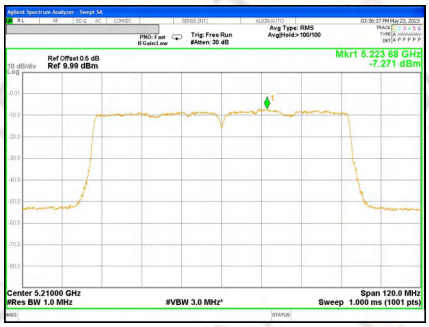
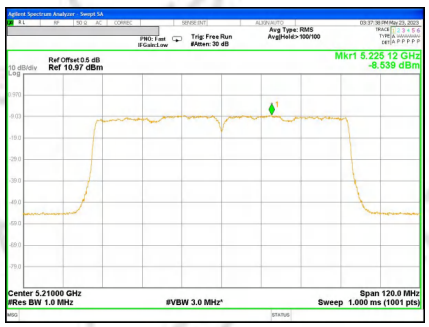
802.11n20

CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		
CH36_Ant. 1	**CH40_Ant. 1**	**CH48_Ant. 1**
		

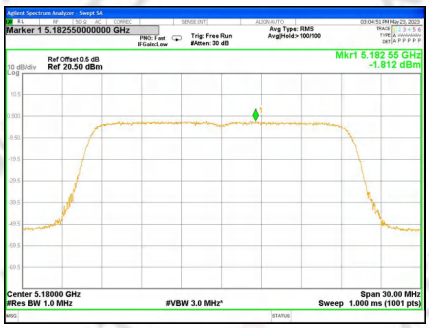
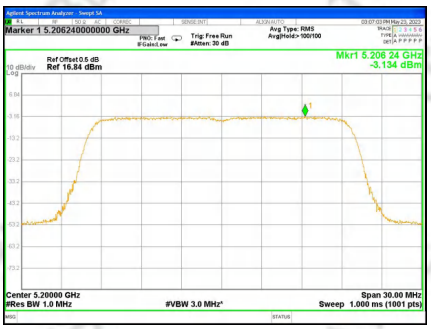
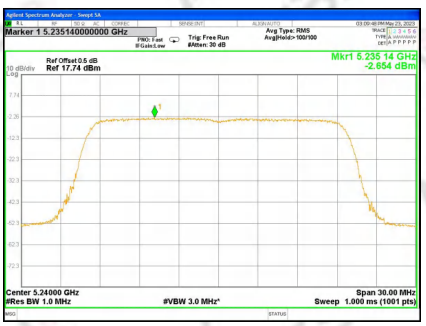
802.11n40

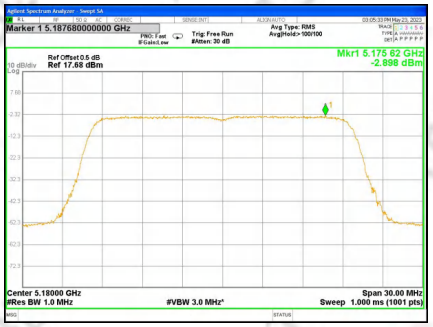
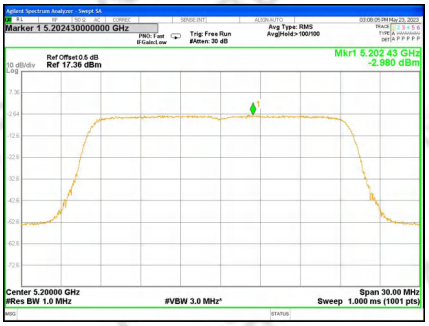
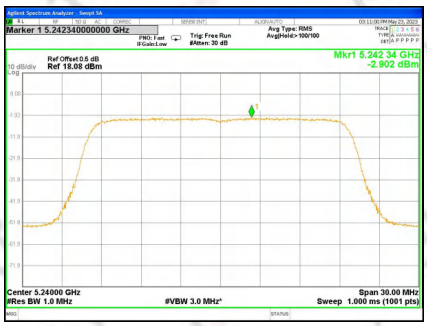
CH38_Ant. 0	CH46_Ant. 0	N/A
		N/A
CH38_Ant. 1	**CH46_Ant. 1**	**N/A**
		N/A

802.11ac80

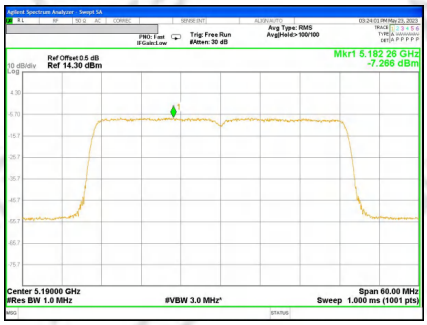
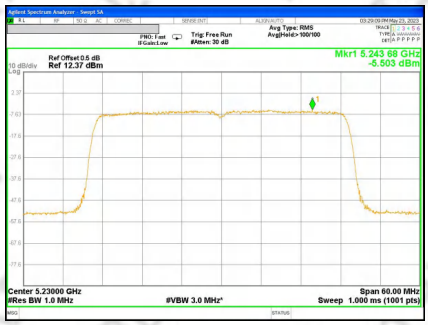
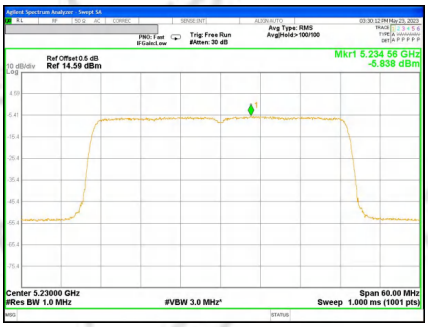
CH42_Ant. 0	CH42_Ant. 1	N/A
		N/A

802.11ax20

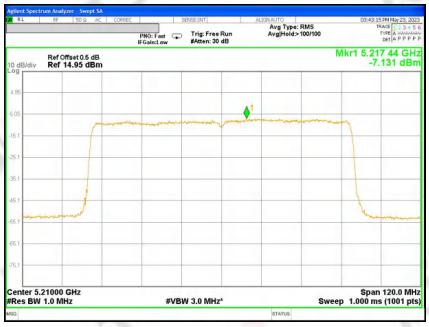
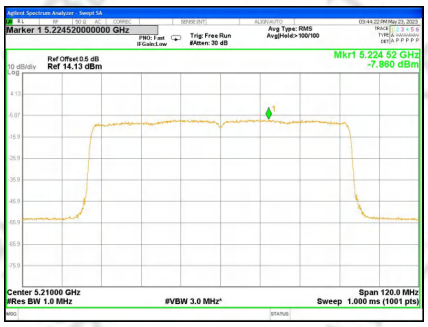
CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		

CH36_Ant. 1	CH40_Ant. 1	CH48_Ant. 1
		

802.11ax40

CH38_Ant. 0	CH46_Ant. 0	N/A
		N/A
CH38_Ant. 1	**CH46_Ant. 1**	**N/A**
		N/A

802.11ax80

CH42_Ant. 0	CH42_Ant. 1	N/A
		N/A

5. BANDWIDTH MEASUREMENT

5.1. EMISSION BANDWIDTH (EBW) 26 BANDWIDTH

See list of measuring instruments of this test report.

5.1.1. TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW >=RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

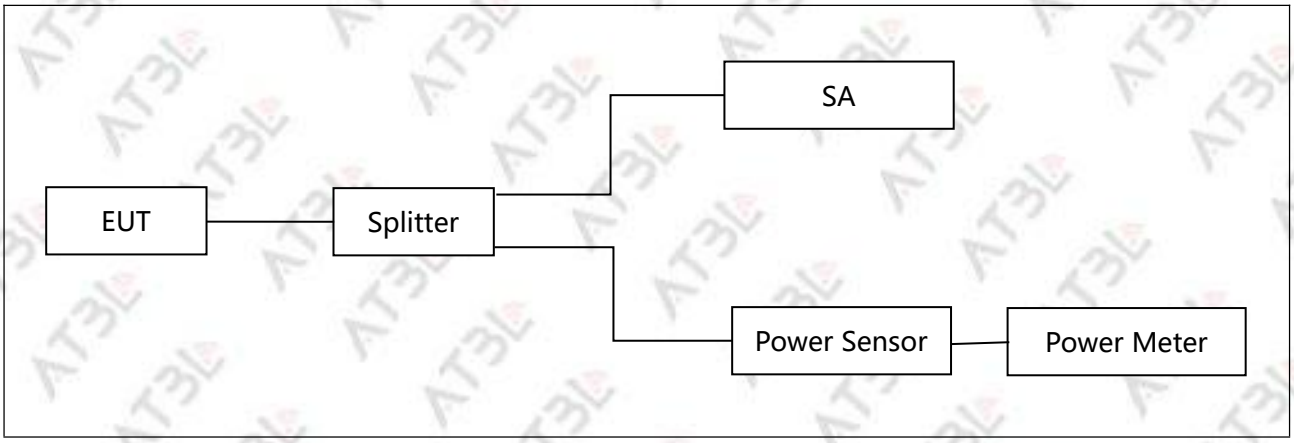
Note:

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

5.1.2. DEVIATION FROM STANDARD

No deviation.

5.1.3. TEST SETUP



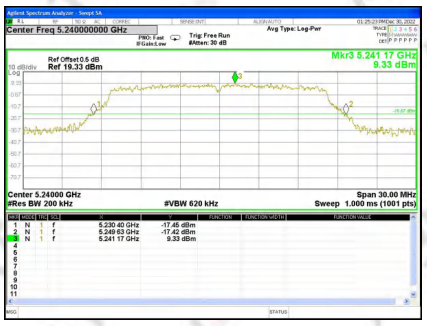
5.1.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

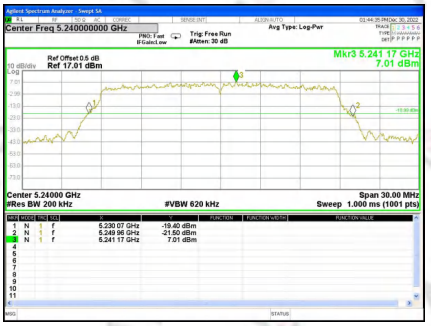
5.1.5. TEST RESULTS

Condition	Mode	Frequency(MHz)	26BW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11a20	5180	22.590	5150-5250	Pass	Ant0
NVNT	11a20	5180	22.470	5150-5250	Pass	Ant1
NVNT	11a20	5200	23.970	5150-5250	Pass	Ant0
NVNT	11a20	5200	23.250	5150-5250	Pass	Ant1
NVNT	11a20	5240	19.230	5150-5250	Pass	Ant0
NVNT	11a20	5240	19.530	5150-5250	Pass	Ant1
NVNT	11n20	5180	25.110	5150-5250	Pass	Ant0
NVNT	11n20	5180	22.440	5150-5250	Pass	Ant1
NVNT	11n20	5200	23.430	5150-5250	Pass	Ant0
NVNT	11n20	5200	24.090	5150-5250	Pass	Ant1
NVNT	11n20	5240	19.890	5150-5250	Pass	Ant0
NVNT	11n20	5240	19.890	5150-5250	Pass	Ant1
NVNT	11n40	5190	40.080	5150-5250	Pass	Ant0
NVNT	11n40	5190	39.600	5150-5250	Pass	Ant1
NVNT	11n40	5230	38.880	5150-5250	Pass	Ant0
NVNT	11n40	5230	39.240	5150-5250	Pass	Ant1
NVNT	11ac80	5210	80.040	5150-5250	Pass	Ant0
NVNT	11ac80	5210	79.680	5150-5250	Pass	Ant1
NVNT	11ax20	5180	25.800	5150-5250	Pass	Ant0
NVNT	11ax20	5180	26.100	5150-5250	Pass	Ant1
NVNT	11ax20	5200	24.720	5150-5250	Pass	Ant0
NVNT	11ax20	5200	25.080	5150-5250	Pass	Ant1
NVNT	11ax20	5240	19.950	5150-5250	Pass	Ant0
NVNT	11ax20	5240	19.890	5150-5250	Pass	Ant1
NVNT	11ax40	5190	39.600	5150-5250	Pass	Ant0
NVNT	11ax40	5190	39.480	5150-5250	Pass	Ant1
NVNT	11ax40	5230	39.540	5150-5250	Pass	Ant0
NVNT	11ax40	5230	39.420	5150-5250	Pass	Ant1
NVNT	11ax80	5210	80.400	5150-5250	Pass	Ant0
NVNT	11ax80	5210	80.040	5150-5250	Pass	Ant1

802.11a

CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		
CH36_Ant. 1	**CH40_Ant. 1**	**CH48_Ant. 1**
		

802.11n20

CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		
CH36_Ant. 1	**CH40_Ant. 1**	**CH48_Ant. 1**
		

802.11n40

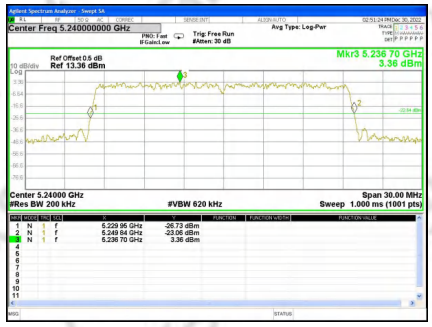
CH38_Ant. 0	CH46_Ant. 0	N/A
		N/A
CH38_Ant. 1	**CH46_Ant. 1**	**N/A**
		N/A

802.11ac80

CH142_Ant. 0	CH42_Ant. 1	N/A
		N/A

802.11ax20

CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		

CH36_Ant. 1	CH40_Ant. 1	CH48_Ant. 1
		

802.11ax40

CH38_Ant. 0	CH46_Ant. 0	N/A
		N/A
CH38_Ant. 1	CH46_Ant. 1	N/A
		N/A

802.11ax80

CH42_Ant. 0	CH42_Ant. 1	N/A
		N/A

5.2. OCCUPIED BANDWIDTH(99%)

The following procedure shall be used for measuring (99 %) power bandwidth:

5.2.1. TEST PROCEDURE

The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW ≥ 3 · RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

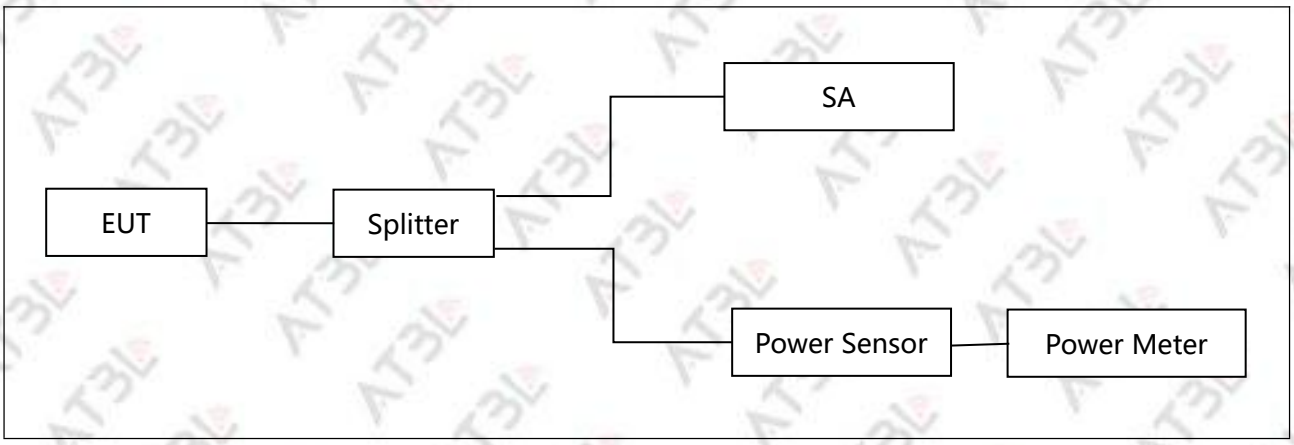
6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2. DEVIATION FROM STANDARD

No deviation.

5.2.3. TEST SETUP



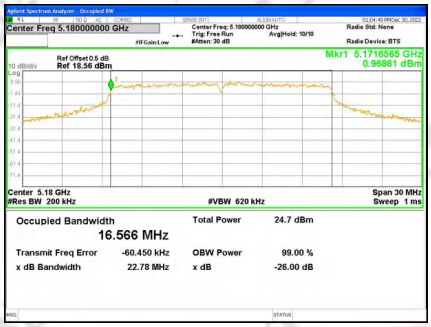
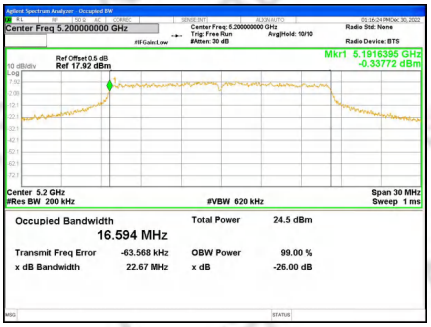
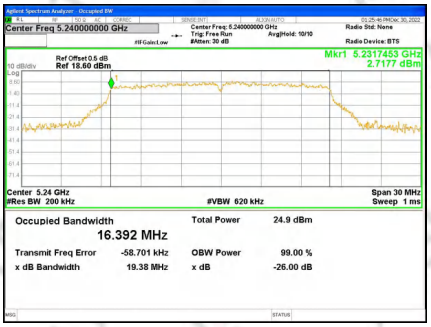
5.2.4. EUT OPERATION CONDITIONS

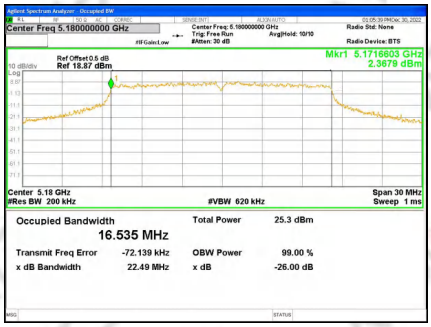
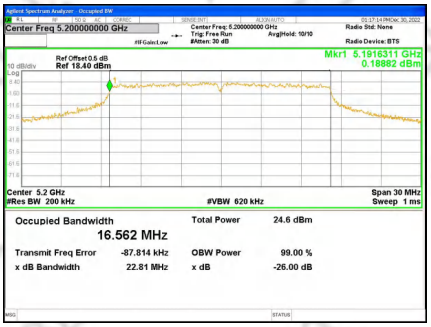
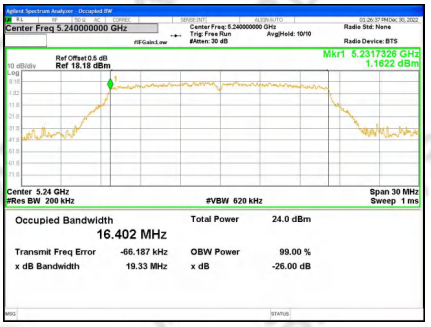
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5. TEST RESULTS

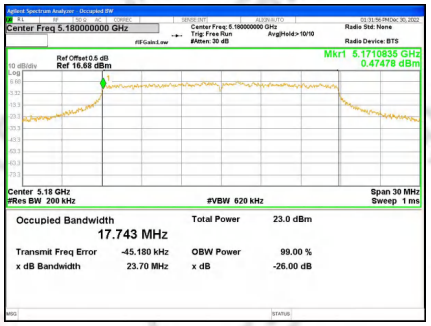
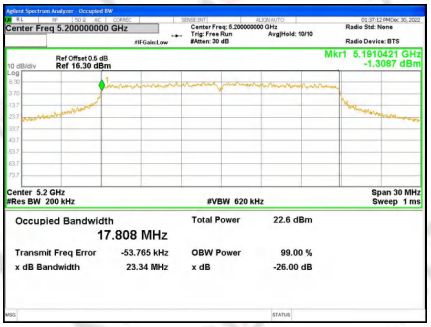
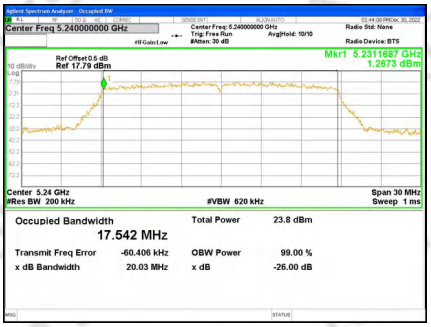
Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11a20	5180	16.566	5150-5250	Pass	Ant0
NVNT	11a20	5180	16.535	5150-5250	Pass	Ant1
NVNT	11a20	5200	16.594	5150-5250	Pass	Ant0
NVNT	11a20	5200	16.562	5150-5250	Pass	Ant1
NVNT	11a20	5240	16.392	5150-5250	Pass	Ant0
NVNT	11a20	5240	16.402	5150-5250	Pass	Ant1
NVNT	11n20	5180	17.743	5150-5250	Pass	Ant0
NVNT	11n20	5180	17.736	5150-5250	Pass	Ant1
NVNT	11n20	5200	17.808	5150-5250	Pass	Ant0
NVNT	11n20	5200	17.790	5150-5250	Pass	Ant1
NVNT	11n20	5240	17.542	5150-5250	Pass	Ant0
NVNT	11n20	5240	17.561	5150-5250	Pass	Ant1
NVNT	11n40	5190	35.910	5150-5250	Pass	Ant0
NVNT	11n40	5190	35.887	5150-5250	Pass	Ant1
NVNT	11n40	5230	35.780	5150-5250	Pass	Ant0
NVNT	11n40	5230	35.815	5150-5250	Pass	Ant1
NVNT	11ac80	5210	76.013	5150-5250	Pass	Ant0
NVNT	11ac80	5210	75.938	5150-5250	Pass	Ant1
NVNT	11ax20	5180	19.053	5150-5250	Pass	Ant0
NVNT	11ax20	5180	18.984	5150-5250	Pass	Ant1
NVNT	11ax20	5200	18.987	5150-5250	Pass	Ant0
NVNT	11ax20	5200	19.030	5150-5250	Pass	Ant1
NVNT	11ax20	5240	18.899	5150-5250	Pass	Ant0
NVNT	11ax20	5240	18.891	5150-5250	Pass	Ant1
NVNT	11ax40	5190	37.860	5150-5250	Pass	Ant0
NVNT	11ax40	5190	37.780	5150-5250	Pass	Ant1
NVNT	11ax40	5230	37.735	5150-5250	Pass	Ant0
NVNT	11ax40	5230	37.814	5150-5250	Pass	Ant1
NVNT	11ax80	5210	77.524	5150-5250	Pass	Ant0
NVNT	11ax80	5210	77.373	5150-5250	Pass	Ant1

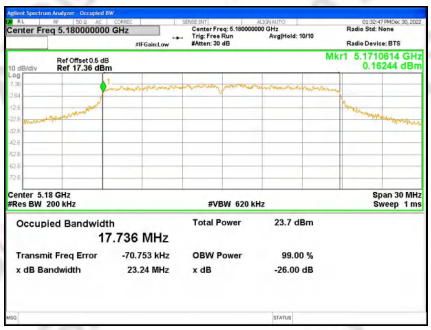
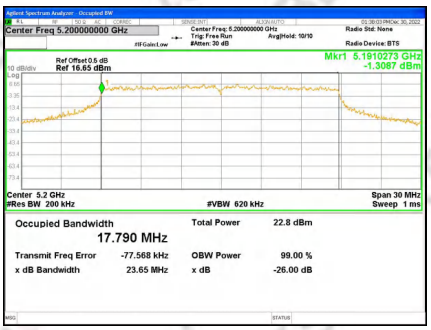
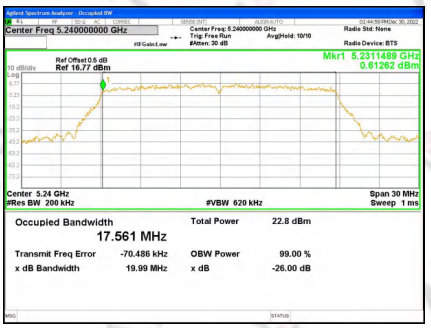
802.11a

CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		
Occupied Bandwidth 16.566 MHz; Total Power 24.7 dBm; Transmit Freq Error -60.450 kHz; OBW Power 99.00 %; x dB Bandwidth 22.78 MHz; x dB -26.00 dB	Occupied Bandwidth 16.594 MHz; Total Power 24.5 dBm; Transmit Freq Error -63.568 kHz; OBW Power 99.00 %; x dB Bandwidth 22.67 MHz; x dB -26.00 dB	Occupied Bandwidth 16.392 MHz; Total Power 24.9 dBm; Transmit Freq Error -58.701 kHz; OBW Power 99.00 %; x dB Bandwidth 19.38 MHz; x dB -26.00 dB

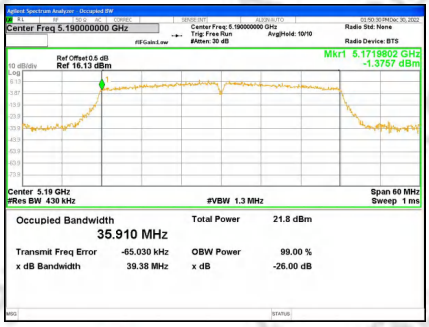
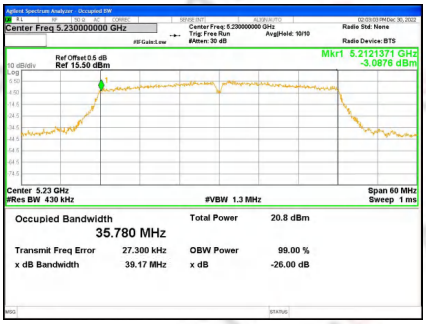
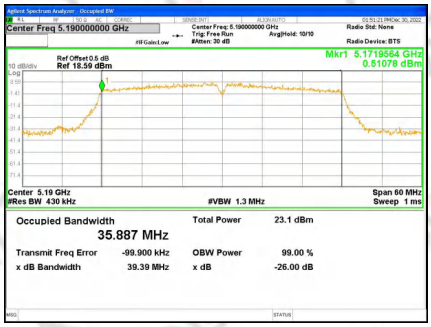
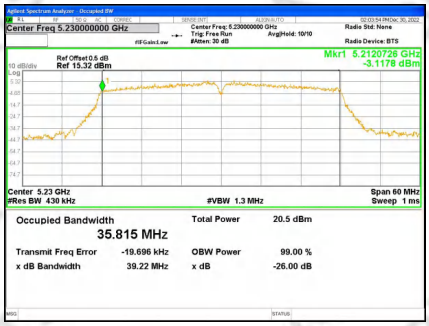
CH36_Ant. 1	CH40_Ant. 1	CH48_Ant. 1
		
Occupied Bandwidth 16.535 MHz; Total Power 25.3 dBm; Transmit Freq Error -72.139 kHz; OBW Power 99.00 %; x dB Bandwidth 22.49 MHz; x dB -26.00 dB	Occupied Bandwidth 16.562 MHz; Total Power 24.6 dBm; Transmit Freq Error -87.814 kHz; OBW Power 99.00 %; x dB Bandwidth 22.81 MHz; x dB -26.00 dB	Occupied Bandwidth 16.402 MHz; Total Power 24.0 dBm; Transmit Freq Error -66.187 kHz; OBW Power 99.00 %; x dB Bandwidth 19.33 MHz; x dB -26.00 dB

802.11n20

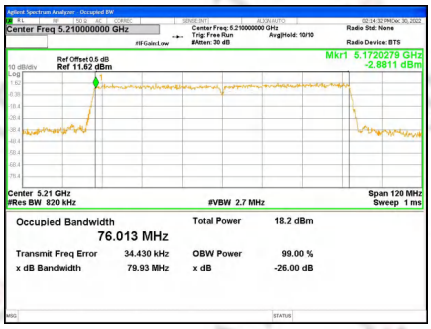
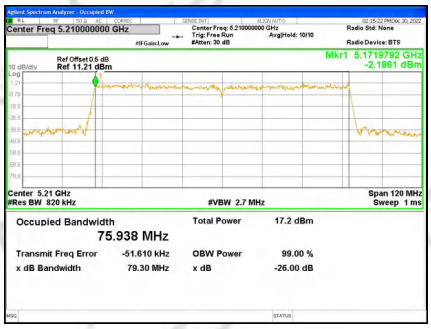
CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		
Occupied Bandwidth 17.743 MHz; Total Power 23.0 dBm; Transmit Freq Error -45.180 kHz; OBW Power 99.00 %; x dB Bandwidth 23.70 MHz; x dB -26.00 dB	Occupied Bandwidth 17.808 MHz; Total Power 22.6 dBm; Transmit Freq Error -53.765 kHz; OBW Power 99.00 %; x dB Bandwidth 23.34 MHz; x dB -26.00 dB	Occupied Bandwidth 17.542 MHz; Total Power 23.8 dBm; Transmit Freq Error -60.406 kHz; OBW Power 99.00 %; x dB Bandwidth 20.03 MHz; x dB -26.00 dB

CH36_Ant. 1	CH40_Ant. 1	CH48_Ant. 1
		
Occupied Bandwidth 17.736 MHz; Total Power 23.7 dBm; Transmit Freq Error -70.753 kHz; OBW Power 99.00 %; x dB Bandwidth 23.24 MHz; x dB -26.00 dB	Occupied Bandwidth 17.790 MHz; Total Power 22.8 dBm; Transmit Freq Error -77.568 kHz; OBW Power 99.00 %; x dB Bandwidth 23.65 MHz; x dB -26.00 dB	Occupied Bandwidth 17.561 MHz; Total Power 22.8 dBm; Transmit Freq Error -70.486 kHz; OBW Power 99.00 %; x dB Bandwidth 19.99 MHz; x dB -26.00 dB

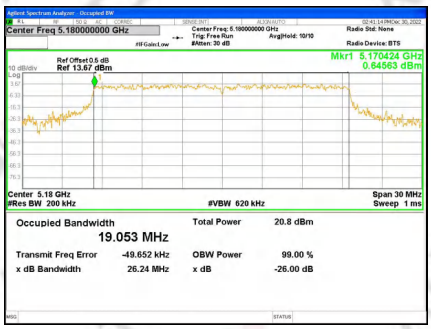
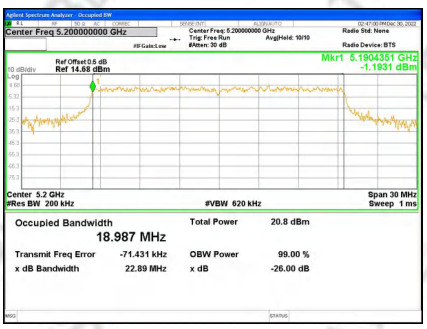
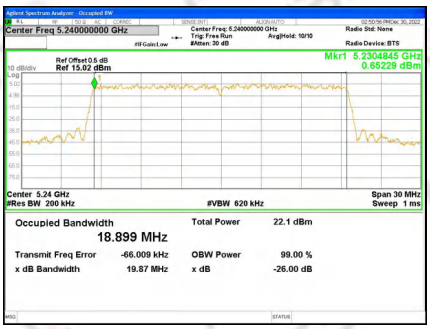
802.11n40

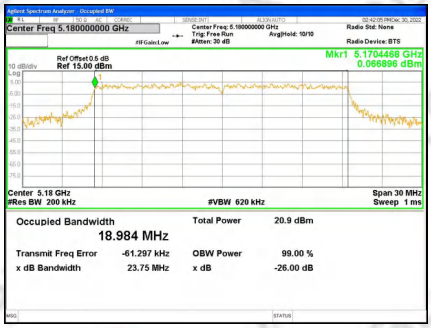
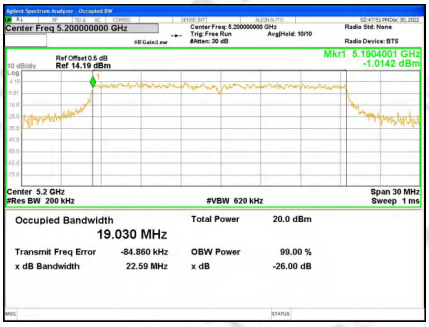
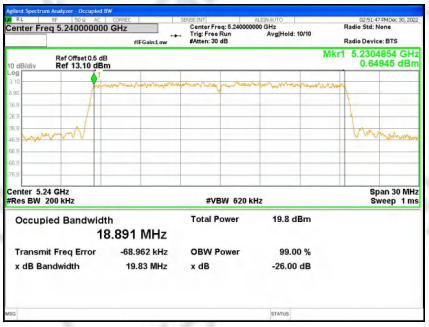
CH38_Ant. 0	CH46_Ant. 0	N/A
		N/A
CH38_Ant. 1	**CH46_Ant. 1**	**N/A**
		N/A

802.11ac80

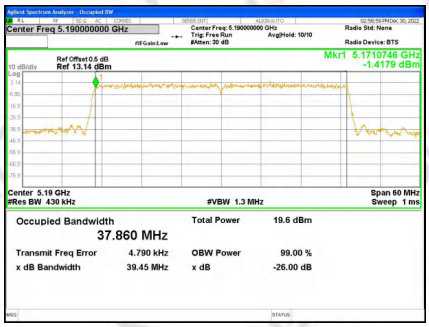
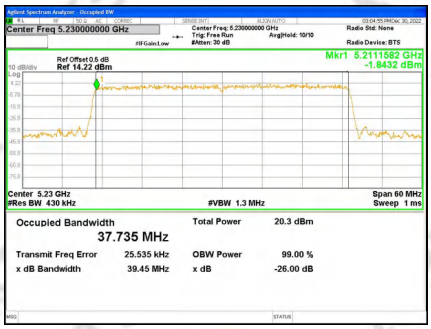
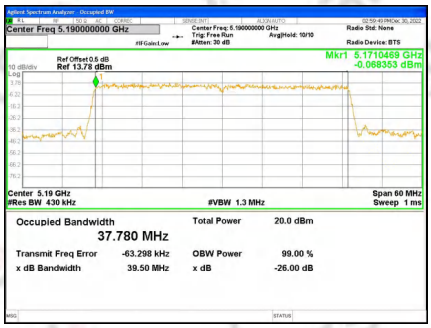
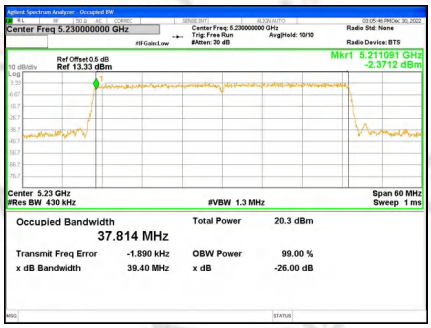
CH142_Ant. 0	CH42_Ant. 1	N/A
		N/A

802.11ax20

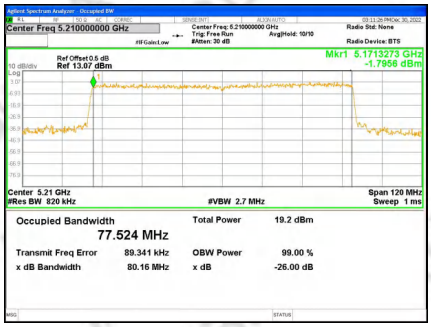
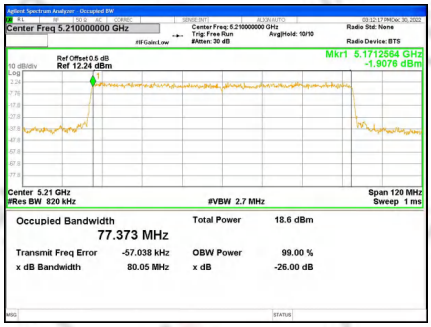
CH36_Ant. 0	CH40_Ant. 0	CH48_Ant. 0
		

CH36_Ant. 1	CH40_Ant. 1	CH48_Ant. 1
		

802.11ax40

CH38_Ant. 0	CH46_Ant. 0	N/A
		N/A
CH38_Ant. 1	**CH46_Ant. 1**	**N/A**
		N/A

802.11ax80

CH42_Ant. 0	CH42_Ant. 1	N/A
		N/A

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1. LIMIT

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a)	Maximum Conducted Output Power	1 watt	5150-5250	PASS

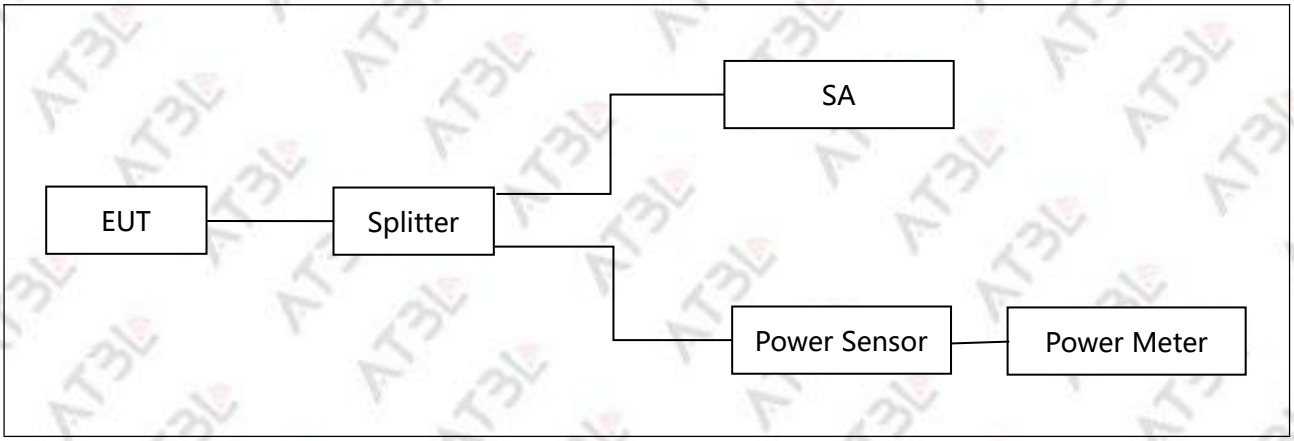
6.2. TEST PROCEDURE

The test was performed in accordance with method of article 12.3.3.1 Method PM from ANSI C63.10-2013 .

6.3. DEVIATION FROM STANDARD

No deviation.

6.4. TEST SETUP



6.5. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6. TEST RESULTS

5150MHz-5250MHz

802.11a

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	Power Reading (dBm)	Conducted Power (dBm)	Limit (dBm)	Result
36	5180	0	3.01	3.52	10.01	13.53	30	PASS
40	5200	0	3.01	3.52	9.99	13.51	30	PASS
48	5240	0	3.01	3.52	10.75	14.27	30	PASS
36	5180	1	3.01	3.57	10.82	15.39	30	PASS
40	5200	1	3.01	3.57	10.73	15.30	30	PASS
48	5240	1	3.01	3.57	10.35	14.92	30	PASS

CH.	Freq. MHz	Ant. No.	Conducted Power (dBm)	Limit (dBm)	Result
36	5180	0+1	17.57	30	PASS
40	5200	0+1	17.51	30	PASS
48	5240	0+1	17.62	30	PASS

802.11n20

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	Power Reading (dBm)	Conducted Power (dBm)	Limit (dBm)	Result
36	5180	0	3.01	4.0	10.02	14.02	30	PASS
40	5200	0	3.01	4.0	9.97	13.97	30	PASS
48	5240	0	3.01	4.0	10.32	14.32	30	PASS
36	5180	1	3.01	4.02	10.6	14.62	30	PASS
40	5200	1	3.01	4.02	10.26	14.28	30	PASS
48	5240	1	3.01	4.02	10.14	14.16	30	PASS

CH.	Freq. MHz	Ant. No.	Conducted Power (dBm)	Limit (dBm)	Result
36	5180	0+1	17.34	30	PASS
40	5200	0+1	17.14	30	PASS
48	5240	0+1	17.25	30	PASS

802.11n40

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	Power Reading (dBm)	Conducted Power (dBm)	Limit (dBm)	Result
38	5190	0	3.01	5.91	7.52	13.43	30	PASS
46	5230	0	3.01	5.91	8.1	14.01	30	PASS
38	5190	1	3.01	5.98	8.64	14.62	30	PASS
46	5230	1	3.01	5.98	8.43	14.41	30	PASS

CH.	Freq. MHz	Ant. No.	Conducted Power (dBm)	Limit (dBm)	Result
38	5190	0+1	17.08	30	PASS
46	5230	0+1	17.23	30	PASS

802.11ac80

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	Power Reading (dBm)	Conducted Power (dBm)	Limit (dBm)	Result
42	5210	0	3.01	8.26	3.6	11.86	30	PASS
42	5210	1	3.01	8.12	4.04	12.16	30	PASS

CH.	Freq. MHz	Ant. No.	Conducted Power (dBm)	Limit (dBm)	Result
42	5210	0+1	15.02	30	PASS

802.11ax20

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	Power Reading (dBm)	Conducted Power (dBm)	Limit (dBm)	Result
36	5180	0	3.01	6.55	6.86	13.41	30	PASS
40	5200	0	3.01	6.55	7.05	13.60	30	PASS
48	5240	0	3.01	6.55	7.6	14.15	30	PASS
36	5180	1	3.01	6.46	6.71	13.17	30	PASS
40	5200	1	3.01	6.46	6.67	13.13	30	PASS
48	5240	1	3.01	6.46	6.28	12.74	30	PASS

CH.	Freq. MHz	Ant. No.	Conducted Power (dBm)	Limit (dBm)	Result
36	5180	0+1	16.30	30	PASS
40	5200	0+1	16.38	30	PASS
48	5240	0+1	16.51	30	PASS

802.11ax40

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	Power Reading (dBm)	Conducted Power (dBm)	Limit (dBm)	Result
38	5190	0	3.01	6.76	6.72	13.48	30	PASS
46	5230	0	3.01	6.76	6.97	13.73	30	PASS
38	5190	1	3.01	6.80	5.94	12.74	30	PASS
46	5230	1	3.01	6.80	5.74	12.54	30	PASS

CH.	Freq. MHz	Ant. No.	Conducted Power (dBm)	Limit (dBm)	Result
38	5190	0+1	16.14	30	PASS
46	5230	0+1	16.19	30	PASS

802.11ax80

CH.	Freq. MHz	Ant. No.	Ant. Gain (dBi)	Duty Factor (dB)	Power Reading (dBm)	Conducted Power (dBm)	Limit (dBm)	Result
42	5210	0	3.01	7.31	5.17	12.48	30	PASS
42	5210	1	3.01	7.19	5.20	12.39	30	PASS

CH.	Freq. MHz	Ant. No.	Conducted Power (dBm)	Limit (dBm)	Result
42	5210	0+1	15.44	30	PASS

7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1. LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

7.2. TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

8. ANTENNA REQUIREMENT

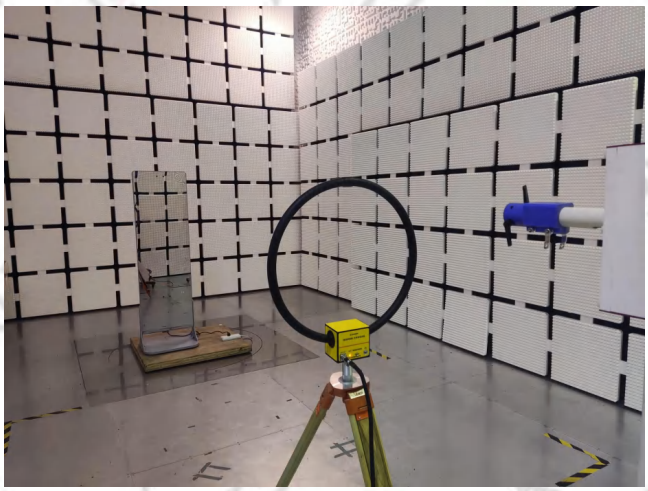
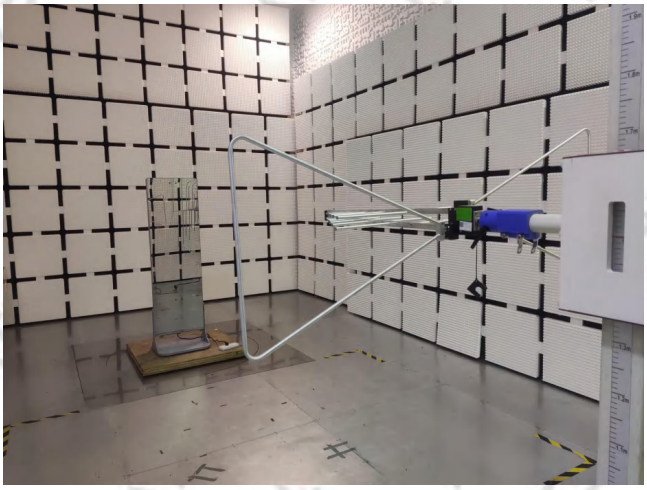
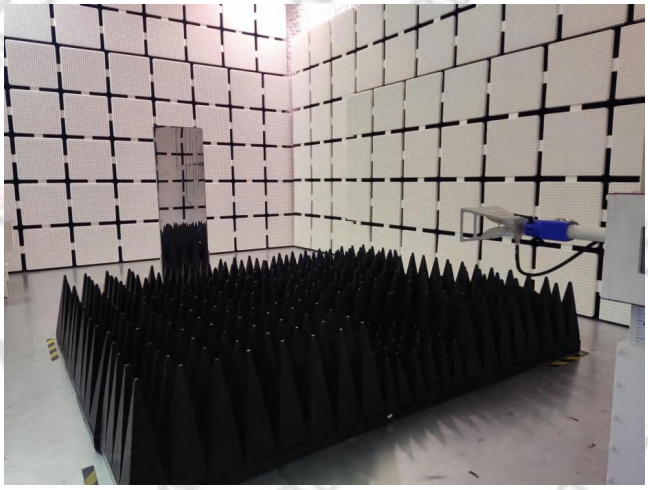
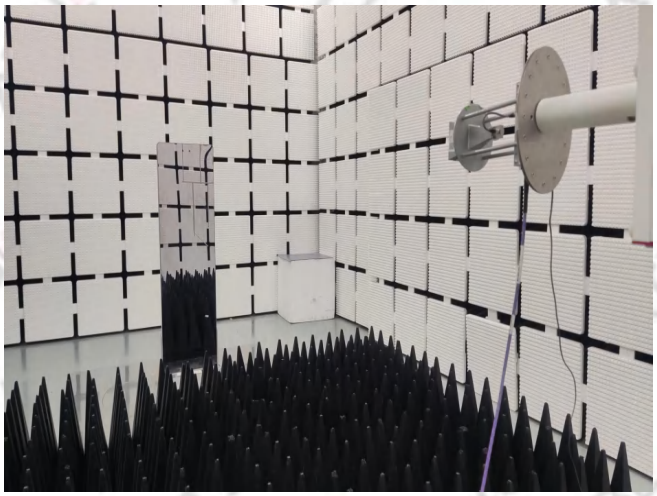
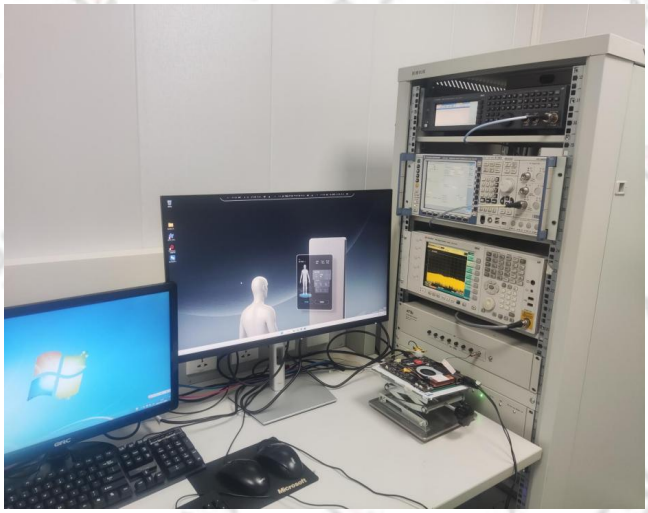
8.1. STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2. EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.

APPENDIX- PHOTOS OF TEST SETUP

AC Power Line Conducted Emissions	Radiated Emissions for 9kHz~30MHz
	
Radiated Emissions for 30MHz~1GHz	**Radiated Emissions for 1GHz~18GHz**
	
Radiated Emissions for above 18GHz	**Conducted for RF**
	

※※※※※END OF THE REPORT※※※※※