



11AC40MIMO-Ant1-5230



11AC40MIMO-Ant2-5230



11AC40MIMO-Ant1-5755



11AC40MIMO-Ant2-5755



11AC40MIMO-Ant1-5795



11AC40MIMO-Ant2-5795



11AC80MIMO-Ant1-5210



11AC80MIMO-Ant2-5210



11AC80MIMO-Ant1-5775



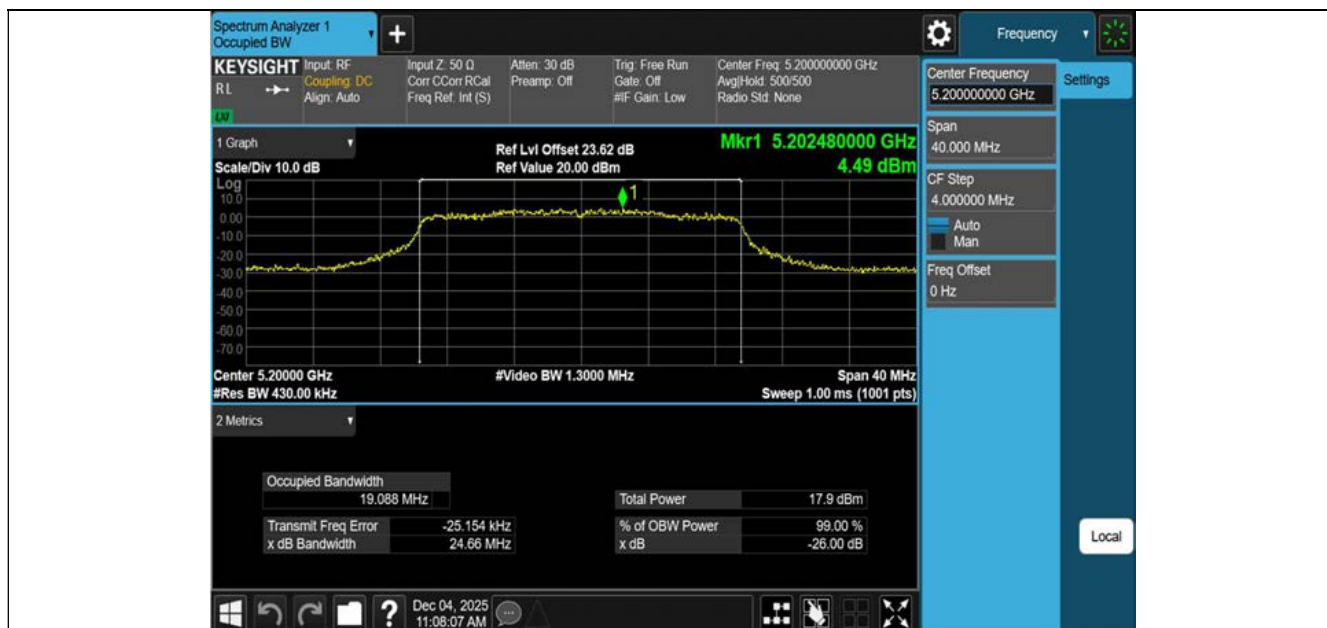
11AC80MIMO-Ant2-5775



11AX20MIMO-Ant1-5180



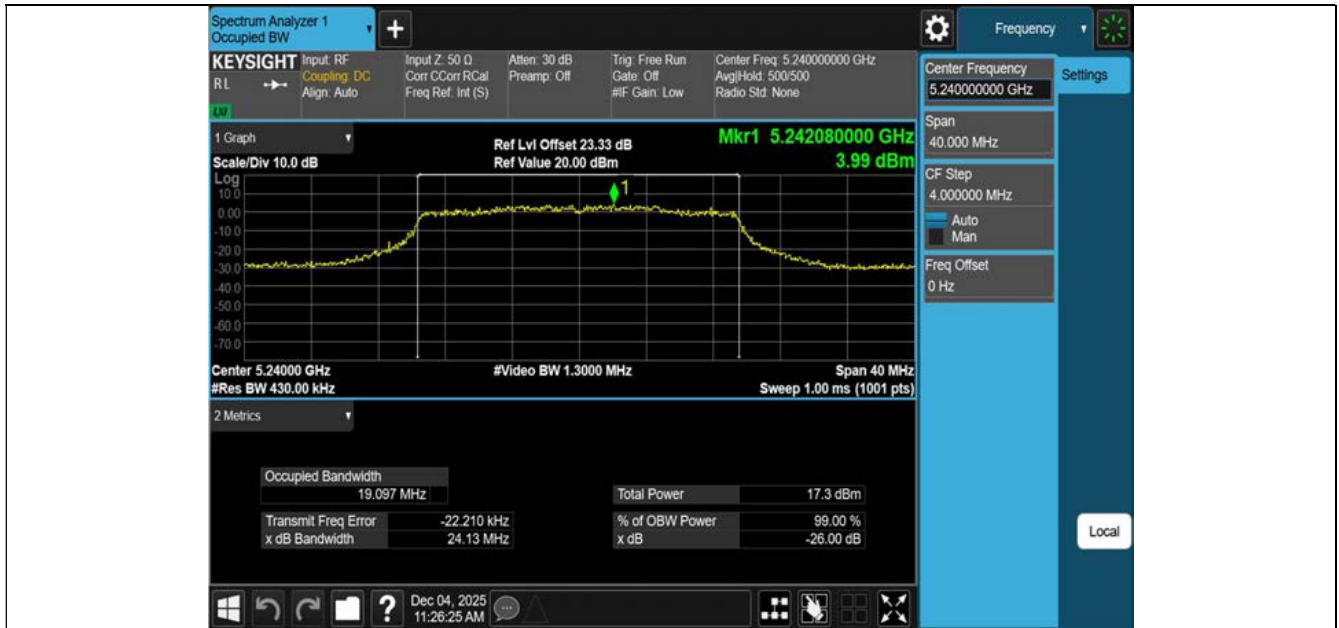
11AX20MIMO-Ant2-5180



11AX20MIMO-Ant1-5200



11AX20MIMO-Ant2-5200



11AX20MIMO-Ant1-5240



11AX20MIMO-Ant2-5240



11AX20MIMO-Ant1-5745



11AX20MIMO-Ant2-5745



11AX20MIMO-Ant1-5785



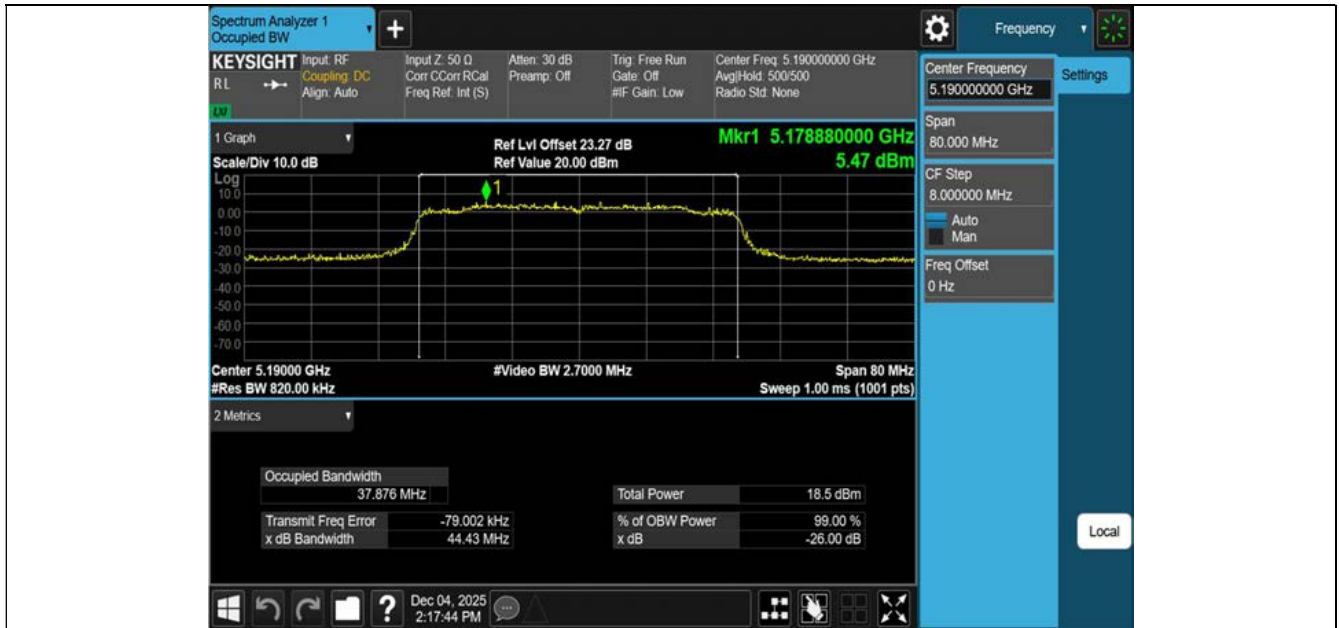
11AX20MIMO-Ant2-5785



11AX20MIMO-Ant1-5825



11AX20MIMO-Ant2-5825



11AX40MIMO-Ant1-5190



11AX40MIMO-Ant2-5190



11AX40MIMO-Ant1-5230



11AX40MIMO-Ant2-5230



11AX40MIMO-Ant1-5755



11AX40MIMO-Ant2-5755



11AX40MIMO-Ant1-5795



11AX40MIMO-Ant2-5795



11AX80MIMO-Ant1-5210



11AX80MIMO-Ant2-5210



11AX80MIMO-Ant1-5775



11AX80MIMO-Ant2-5775

Min emission bandwidth

Test Mode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5745	15.000	5737.480	5752.480	0.5	PASS
11A-CDD	Ant2	5745	13.880	5738.680	5752.560	0.5	PASS
11A-CDD	Ant1	5785	15.080	5777.440	5792.520	0.5	PASS
11A-CDD	Ant2	5785	13.800	5778.680	5792.480	0.5	PASS
11A-CDD	Ant1	5825	15.120	5817.440	5832.560	0.5	PASS
11A-CDD	Ant2	5825	15.680	5816.840	5832.520	0.5	PASS
11N20MIMO	Ant1	5745	13.880	5738.680	5752.560	0.5	PASS
11N20MIMO	Ant2	5745	13.800	5737.480	5751.280	0.5	PASS
11N20MIMO	Ant1	5785	12.600	5777.440	5790.040	0.5	PASS
11N20MIMO	Ant2	5785	14.080	5778.440	5792.520	0.5	PASS
11N20MIMO	Ant1	5825	15.080	5817.440	5832.520	0.5	PASS
11N20MIMO	Ant2	5825	15.720	5816.840	5832.560	0.5	PASS
11N40MIMO	Ant1	5755	33.920	5737.400	5771.320	0.5	PASS
11N40MIMO	Ant2	5755	33.840	5737.480	5771.320	0.5	PASS
11N40MIMO	Ant1	5795	33.840	5778.680	5812.520	0.5	PASS
11N40MIMO	Ant2	5795	30.160	5779.880	5810.040	0.5	PASS
11AC20MIMO	Ant1	5745	15.080	5737.480	5752.560	0.5	PASS
11AC20MIMO	Ant2	5745	13.760	5738.720	5752.480	0.5	PASS
11AC20MIMO	Ant1	5785	13.880	5778.680	5792.560	0.5	PASS
11AC20MIMO	Ant2	5785	13.880	5778.680	5792.560	0.5	PASS
11AC20MIMO	Ant1	5825	15.360	5817.440	5832.800	0.5	PASS
11AC20MIMO	Ant2	5825	13.840	5818.680	5832.520	0.5	PASS
11AC40MIMO	Ant1	5755	31.360	5738.680	5770.040	0.5	PASS
11AC40MIMO	Ant2	5755	31.360	5739.960	5771.320	0.5	PASS
11AC40MIMO	Ant1	5795	31.360	5779.960	5811.320	0.5	PASS
11AC40MIMO	Ant2	5795	33.200	5777.400	5810.600	0.5	PASS
11AC80MIMO	Ant1	5775	71.360	5738.680	5810.040	0.5	PASS
11AC80MIMO	Ant2	5775	72.480	5739.960	5812.440	0.5	PASS
11AX20MIMO	Ant1	5745	13.880	5737.440	5751.320	0.5	PASS
11AX20MIMO	Ant2	5745	16.040	5736.520	5752.560	0.5	PASS
11AX20MIMO	Ant1	5785	15.160	5777.880	5793.040	0.5	PASS
11AX20MIMO	Ant2	5785	12.840	5779.640	5792.480	0.5	PASS
11AX20MIMO	Ant1	5825	16.000	5816.520	5832.520	0.5	PASS
11AX20MIMO	Ant2	5825	15.120	5817.400	5832.520	0.5	PASS
11AX40MIMO	Ant1	5755	32.000	5737.480	5769.480	0.5	PASS
11AX40MIMO	Ant2	5755	34.720	5736.920	5771.640	0.5	PASS
11AX40MIMO	Ant1	5795	34.960	5777.480	5812.440	0.5	PASS
11AX40MIMO	Ant2	5795	31.280	5781.160	5812.440	0.5	PASS
11AX80MIMO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS
11AX80MIMO	Ant2	5775	68.800	5743.640	5812.440	0.5	PASS



11A-CDD-Ant1-5745-PASS



11A-CDD-Ant2-5745-PASS



11A-CDD-Ant1-5785-PASS



11A-CDD-Ant2-5785-PASS



11A-CDD-Ant1-5825-PASS



11A-CDD-Ant2-5825-PASS



11N20MIMO-Ant1-5745-PASS



11N20MIMO-Ant2-5745-PASS



11N20MIMO-Ant1-5785-PASS



11N20MIMO-Ant2-5785-PASS



11N20MIMO-Ant1-5825-PASS



11N20MIMO-Ant2-5825-PASS



11N40MIMO-Ant1-5755-PASS



11N40MIMO-Ant2-5755-PASS



11N40MIMO-Ant1-5795-PASS



11N40MIMO-Ant2-5795-PASS



11AC20MIMO-Ant1-5745-PASS



11AC20MIMO-Ant2-5745-PASS



11AC20MIMO-Ant1-5785-PASS



11AC20MIMO-Ant2-5785-PASS



11AC20MIMO-Ant1-5825-PASS



11AC20MIMO-Ant2-5825-PASS



11AC40MIMO-Ant1-5755-PASS



11AC40MIMO-Ant2-5755-PASS



11AC40MIMO-Ant1-5795-PASS



11AC40MIMO-Ant2-5795-PASS



11AC80MIMO-Ant1-5775-PASS



11AC80MIMO-Ant2-5775-PASS



11AX20MIMO-Ant1-5745-PASS



11AX20MIMO-Ant2-5745-PASS



11AX20MIMO-Ant1-5785-PASS



11AX20MIMO-Ant2-5785-PASS



11AX20MIMO-Ant1-5825-PASS



11AX20MIMO-Ant2-5825-PASS



11AX40MIMO-Ant1-5755-PASS



11AX40MIMO-Ant2-5755-PASS



11AX40MIMO-Ant1-5795-PASS



11AX40MIMO-Ant2-5795-PASS



11AX80MIMO-Ant1-5775-PASS



11AX80MIMO-Ant2-5775-PASS

3.4 Conducted Output Power

3.4.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	Master device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- a. 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.
- b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

3.4.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

- a) The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b) Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

3.4.3 Test Setup



3.4.4 Table of Parameters of Text Software Setting

UNII-1			
Test Software Version	DRTU		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	Default	Default	Default
IEEE 802.11n20	Default	Default	Default
IEEE 802.11ac20	Default	Default	Default
IEEE 802.11ax20	Default	Default	Default
Frequency (MHz)	5190	5230	
IEEE 802.11n40	Default	Default	
IEEE 802.11ac40	Default	Default	
IEEE 802.11ax40	Default	Default	
Frequency (MHz)	5210		
IEEE 802.11ac80	Default		
IEEE 802.11ax80	Default		

UNII-3			
Test Software Version	DRTU		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	Default	Default	Default
IEEE 802.11n20	Default	Default	Default
IEEE 802.11ac20	Default	Default	Default
IEEE 802.11ax20	Default	Default	Default
Frequency (MHz)	5755	5795	
IEEE 802.11n40	Default	Default	
IEEE 802.11ac40	Default	Default	
IEEE 802.11ax40	Default	Default	
Frequency (MHz)	5775		
IEEE 802.11ac80	Default		
IEEE 802.11ax80	Default		

3.4.5 The Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A-CDD	Ant1	5180	9.51	≤23.98	PASS
11A-CDD	Ant2	5180	9.76	≤23.98	PASS
11A-CDD	total	5180	12.65	≤23.98	PASS
11A-CDD	Ant1	5200	9.55	≤23.98	PASS
11A-CDD	Ant2	5200	9.61	≤23.98	PASS
11A-CDD	total	5200	12.59	≤23.98	PASS
11A-CDD	Ant1	5240	9.06	≤23.98	PASS
11A-CDD	Ant2	5240	9.35	≤23.98	PASS
11A-CDD	total	5240	12.22	≤23.98	PASS
11A-CDD	Ant1	5745	10.52	≤30.00	PASS
11A-CDD	Ant2	5745	10.68	≤30.00	PASS
11A-CDD	total	5745	13.61	≤30.00	PASS
11A-CDD	Ant1	5785	11.14	≤30.00	PASS
11A-CDD	Ant2	5785	10.41	≤30.00	PASS
11A-CDD	total	5785	13.80	≤30.00	PASS
11A-CDD	Ant1	5825	11.16	≤30.00	PASS
11A-CDD	Ant2	5825	10.56	≤30.00	PASS
11A-CDD	total	5825	13.88	≤30.00	PASS
11N20MIMO	Ant1	5180	9.53	≤23.98	PASS
11N20MIMO	Ant2	5180	9.91	≤23.98	PASS
11N20MIMO	total	5180	12.73	≤23.98	PASS
11N20MIMO	Ant1	5200	9.37	≤23.98	PASS
11N20MIMO	Ant2	5200	9.49	≤23.98	PASS
11N20MIMO	total	5200	12.44	≤23.98	PASS
11N20MIMO	Ant1	5240	8.78	≤23.98	PASS
11N20MIMO	Ant2	5240	9.04	≤23.98	PASS
11N20MIMO	total	5240	11.92	≤23.98	PASS
11N20MIMO	Ant1	5745	10.43	≤30.00	PASS
11N20MIMO	Ant2	5745	10.47	≤30.00	PASS
11N20MIMO	total	5745	13.46	≤30.00	PASS
11N20MIMO	Ant1	5785	11.06	≤30.00	PASS
11N20MIMO	Ant2	5785	10.48	≤30.00	PASS
11N20MIMO	total	5785	13.79	≤30.00	PASS
11N20MIMO	Ant1	5825	11.18	≤30.00	PASS
11N20MIMO	Ant2	5825	10.75	≤30.00	PASS
11N20MIMO	total	5825	13.98	≤30.00	PASS
11N40MIMO	Ant1	5190	9.81	≤23.98	PASS
11N40MIMO	Ant2	5190	10.13	≤23.98	PASS
11N40MIMO	total	5190	12.98	≤23.98	PASS
11N40MIMO	Ant1	5230	9.51	≤23.98	PASS
11N40MIMO	Ant2	5230	10.10	≤23.98	PASS
11N40MIMO	total	5230	12.83	≤23.98	PASS
11N40MIMO	Ant1	5755	12.69	≤30.00	PASS
11N40MIMO	Ant2	5755	12.81	≤30.00	PASS

11N40MIMO	total	5755	15.76	≤30.00	PASS
11N40MIMO	Ant1	5795	13.21	≤30.00	PASS
11N40MIMO	Ant2	5795	13.01	≤30.00	PASS
11N40MIMO	total	5795	16.12	≤30.00	PASS
11AC20MIMO	Ant1	5180	9.50	≤23.98	PASS
11AC20MIMO	Ant2	5180	9.80	≤23.98	PASS
11AC20MIMO	total	5180	12.66	≤23.98	PASS
11AC20MIMO	Ant1	5200	9.35	≤23.98	PASS
11AC20MIMO	Ant2	5200	9.58	≤23.98	PASS
11AC20MIMO	total	5200	12.48	≤23.98	PASS
11AC20MIMO	Ant1	5240	8.75	≤23.98	PASS
11AC20MIMO	Ant2	5240	9.39	≤23.98	PASS
11AC20MIMO	total	5240	12.09	≤23.98	PASS
11AC20MIMO	Ant1	5745	10.34	≤30.00	PASS
11AC20MIMO	Ant2	5745	10.51	≤30.00	PASS
11AC20MIMO	total	5745	13.44	≤30.00	PASS
11AC20MIMO	Ant1	5785	11.05	≤30.00	PASS
11AC20MIMO	Ant2	5785	10.40	≤30.00	PASS
11AC20MIMO	total	5785	13.75	≤30.00	PASS
11AC20MIMO	Ant1	5825	11.15	≤30.00	PASS
11AC20MIMO	Ant2	5825	10.46	≤30.00	PASS
11AC20MIMO	total	5825	13.83	≤30.00	PASS
11AC40MIMO	Ant1	5190	9.61	≤23.98	PASS
11AC40MIMO	Ant2	5190	9.30	≤23.98	PASS
11AC40MIMO	total	5190	12.47	≤23.98	PASS
11AC40MIMO	Ant1	5230	9.61	≤23.98	PASS
11AC40MIMO	Ant2	5230	9.45	≤23.98	PASS
11AC40MIMO	total	5230	12.54	≤23.98	PASS
11AC40MIMO	Ant1	5755	12.64	≤30.00	PASS
11AC40MIMO	Ant2	5755	12.76	≤30.00	PASS
11AC40MIMO	total	5755	15.71	≤30.00	PASS
11AC40MIMO	Ant1	5795	13.05	≤30.00	PASS
11AC40MIMO	Ant2	5795	12.82	≤30.00	PASS
11AC40MIMO	total	5795	15.95	≤30.00	PASS
11AC80MIMO	Ant1	5210	9.23	≤23.98	PASS
11AC80MIMO	Ant2	5210	9.31	≤23.98	PASS
11AC80MIMO	total	5210	12.28	≤23.98	PASS
11AC80MIMO	Ant1	5775	13.26	≤30.00	PASS
11AC80MIMO	Ant2	5775	12.78	≤30.00	PASS
11AC80MIMO	total	5775	16.04	≤30.00	PASS
11AX20MIMO	Ant1	5180	9.86	≤23.98	PASS
11AX20MIMO	Ant2	5180	9.39	≤23.98	PASS
11AX20MIMO	total	5180	12.64	≤23.98	PASS
11AX20MIMO	Ant1	5200	9.63	≤23.98	PASS
11AX20MIMO	Ant2	5200	9.01	≤23.98	PASS
11AX20MIMO	total	5200	12.34	≤23.98	PASS
11AX20MIMO	Ant1	5240	9.12	≤23.98	PASS

11AX20MIMO	Ant2	5240	8.48	≤23.98	PASS
11AX20MIMO	total	5240	11.82	≤23.98	PASS
11AX20MIMO	Ant1	5745	10.21	≤30.00	PASS
11AX20MIMO	Ant2	5745	10.36	≤30.00	PASS
11AX20MIMO	total	5745	13.30	≤30.00	PASS
11AX20MIMO	Ant1	5785	10.85	≤30.00	PASS
11AX20MIMO	Ant2	5785	10.19	≤30.00	PASS
11AX20MIMO	total	5785	13.54	≤30.00	PASS
11AX20MIMO	Ant1	5825	10.99	≤30.00	PASS
11AX20MIMO	Ant2	5825	10.25	≤30.00	PASS
11AX20MIMO	total	5825	13.65	≤30.00	PASS
11AX40MIMO	Ant1	5190	9.75	≤23.98	PASS
11AX40MIMO	Ant2	5190	9.77	≤23.98	PASS
11AX40MIMO	total	5190	12.77	≤23.98	PASS
11AX40MIMO	Ant1	5230	9.75	≤23.98	PASS
11AX40MIMO	Ant2	5230	9.65	≤23.98	PASS
11AX40MIMO	total	5230	12.71	≤23.98	PASS
11AX40MIMO	Ant1	5755	12.52	≤30.00	PASS
11AX40MIMO	Ant2	5755	12.73	≤30.00	PASS
11AX40MIMO	total	5755	15.64	≤30.00	PASS
11AX40MIMO	Ant1	5795	12.94	≤30.00	PASS
11AX40MIMO	Ant2	5795	12.81	≤30.00	PASS
11AX40MIMO	total	5795	15.89	≤30.00	PASS
11AX80MIMO	Ant1	5210	10.03	≤23.98	PASS
11AX80MIMO	Ant2	5210	9.27	≤23.98	PASS
11AX80MIMO	total	5210	12.68	≤23.98	PASS
11AX80MIMO	Ant1	5775	13.06	≤30.00	PASS
11AX80MIMO	Ant2	5775	12.56	≤30.00	PASS
11AX80MIMO	total	5775	15.83	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test system

All transmit signals are completely uncorrelated with each other;

5150-5250MHz: Directional gain = 3.86dBi

5725-5850MHz: Directional gain = 3.82dBi

3.5 Power Spectral Density

3.5.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Master device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/300 \text{ kHz})$ to the measured result, i.e. 2.22 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, offset=cable loss+duty factor+ $10\log(500\text{kHz}/300\text{kHz})$.

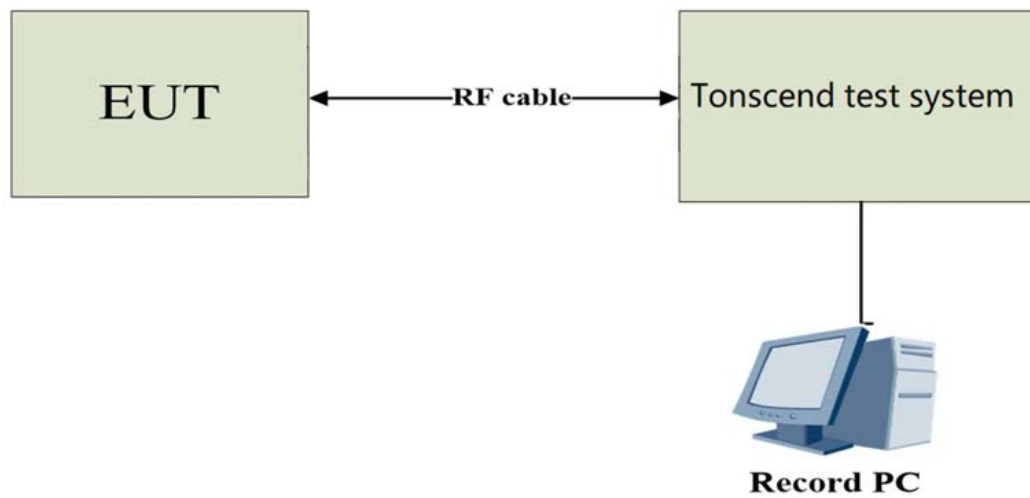
3.5.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ Test ☐ No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below. Spectrum analyser settings as following:

Centre Frequency	The centre frequency of the channel under test
RBW	= 1 MHz (Band1/2/3); = 500kHz (Band4)
VBW	$\geq 3 \times \text{RBW}$
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	Auto Couple

3.5.3 Test Setup



3.5.4 The Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	-0.81	≤11.00	PASS
11A-CDD	Ant2	5180	-0.46	≤11.00	PASS
11A-CDD	total	5180	2.38	≤11.00	PASS
11A-CDD	Ant1	5200	-1.13	≤11.00	PASS
11A-CDD	Ant2	5200	-0.72	≤11.00	PASS
11A-CDD	total	5200	2.09	≤11.00	PASS
11A-CDD	Ant1	5240	-1.19	≤11.00	PASS
11A-CDD	Ant2	5240	-0.82	≤11.00	PASS
11A-CDD	total	5240	2.01	≤11.00	PASS
11N20MIMO	Ant1	5180	-1.29	≤11.00	PASS
11N20MIMO	Ant2	5180	-1.12	≤11.00	PASS
11N20MIMO	total	5180	1.81	≤11.00	PASS
11N20MIMO	Ant1	5200	-1.30	≤11.00	PASS
11N20MIMO	Ant2	5200	-1.21	≤11.00	PASS
11N20MIMO	total	5200	1.76	≤11.00	PASS
11N20MIMO	Ant1	5240	-1.91	≤11.00	PASS
11N20MIMO	Ant2	5240	-1.67	≤11.00	PASS
11N20MIMO	total	5240	1.22	≤11.00	PASS
11N40MIMO	Ant1	5190	-3.61	≤11.00	PASS
11N40MIMO	Ant2	5190	-3.58	≤11.00	PASS
11N40MIMO	total	5190	-0.58	≤11.00	PASS
11N40MIMO	Ant1	5230	-4.11	≤11.00	PASS
11N40MIMO	Ant2	5230	-3.65	≤11.00	PASS
11N40MIMO	total	5230	-0.86	≤11.00	PASS
11AC20MIMO	Ant1	5180	-1.14	≤11.00	PASS
11AC20MIMO	Ant2	5180	-0.65	≤11.00	PASS
11AC20MIMO	total	5180	2.12	≤11.00	PASS
11AC20MIMO	Ant1	5200	-1.29	≤11.00	PASS
11AC20MIMO	Ant2	5200	-1.30	≤11.00	PASS
11AC20MIMO	total	5200	1.72	≤11.00	PASS
11AC20MIMO	Ant1	5240	-1.98	≤11.00	PASS
11AC20MIMO	Ant2	5240	-1.60	≤11.00	PASS
11AC20MIMO	total	5240	1.22	≤11.00	PASS
11AC40MIMO	Ant1	5190	-4.19	≤11.00	PASS
11AC40MIMO	Ant2	5190	-4.02	≤11.00	PASS
11AC40MIMO	total	5190	-1.09	≤11.00	PASS
11AC40MIMO	Ant1	5230	-4.21	≤11.00	PASS
11AC40MIMO	Ant2	5230	-4.36	≤11.00	PASS
11AC40MIMO	total	5230	-1.27	≤11.00	PASS
11AC80MIMO	Ant1	5210	-7.37	≤11.00	PASS

11AC80MIMO	Ant2	5210	-7.31	≤11.00	PASS
11AC80MIMO	total	5210	-4.33	≤11.00	PASS
11AX20MIMO	Ant1	5180	-0.93	≤11.00	PASS
11AX20MIMO	Ant2	5180	-1.45	≤11.00	PASS
11AX20MIMO	total	5180	1.83	≤11.00	PASS
11AX20MIMO	Ant1	5200	-1.15	≤11.00	PASS
11AX20MIMO	Ant2	5200	-1.51	≤11.00	PASS
11AX20MIMO	total	5200	1.68	≤11.00	PASS
11AX20MIMO	Ant1	5240	-1.67	≤11.00	PASS
11AX20MIMO	Ant2	5240	-2.13	≤11.00	PASS
11AX20MIMO	total	5240	1.12	≤11.00	PASS
11AX40MIMO	Ant1	5190	-4.07	≤11.00	PASS
11AX40MIMO	Ant2	5190	-3.99	≤11.00	PASS
11AX40MIMO	total	5190	-1.02	≤11.00	PASS
11AX40MIMO	Ant1	5230	-4.21	≤11.00	PASS
11AX40MIMO	Ant2	5230	-3.94	≤11.00	PASS
11AX40MIMO	total	5230	-1.06	≤11.00	PASS
11AX80MIMO	Ant1	5210	-6.87	≤11.00	PASS
11AX80MIMO	Ant2	5210	-7.38	≤11.00	PASS
11AX80MIMO	total	5210	-4.11	≤11.00	PASS

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/500kHz]	Verdict
11A-CDD	Ant1	5745	-2.35	≤30.00	PASS
11A-CDD	Ant2	5745	-2.02	≤30.00	PASS
11A-CDD	total	5745	0.83	≤30.00	PASS
11A-CDD	Ant1	5785	-2.09	≤30.00	PASS
11A-CDD	Ant2	5785	-2.59	≤30.00	PASS
11A-CDD	total	5785	0.68	≤30.00	PASS
11A-CDD	Ant1	5825	-2.55	≤30.00	PASS
11A-CDD	Ant2	5825	-2.59	≤30.00	PASS
11A-CDD	total	5825	0.44	≤30.00	PASS
11N20MIMO	Ant1	5745	-3.00	≤30.00	PASS
11N20MIMO	Ant2	5745	-2.73	≤30.00	PASS
11N20MIMO	total	5745	0.15	≤30.00	PASS
11N20MIMO	Ant1	5785	-2.33	≤30.00	PASS
11N20MIMO	Ant2	5785	-2.82	≤30.00	PASS
11N20MIMO	total	5785	0.44	≤30.00	PASS
11N20MIMO	Ant1	5825	-2.58	≤30.00	PASS
11N20MIMO	Ant2	5825	-2.75	≤30.00	PASS
11N20MIMO	total	5825	0.35	≤30.00	PASS
11N40MIMO	Ant1	5755	-3.80	≤30.00	PASS
11N40MIMO	Ant2	5755	-3.69	≤30.00	PASS

11N40MIMO	total	5755	-0.73	≤30.00	PASS
11N40MIMO	Ant1	5795	-3.17	≤30.00	PASS
11N40MIMO	Ant2	5795	-3.30	≤30.00	PASS
11N40MIMO	total	5795	-0.22	≤30.00	PASS
11AC20MIMO	Ant1	5745	-2.93	≤30.00	PASS
11AC20MIMO	Ant2	5745	-2.55	≤30.00	PASS
11AC20MIMO	total	5745	0.27	≤30.00	PASS
11AC20MIMO	Ant1	5785	-2.44	≤30.00	PASS
11AC20MIMO	Ant2	5785	-2.87	≤30.00	PASS
11AC20MIMO	total	5785	0.36	≤30.00	PASS
11AC20MIMO	Ant1	5825	-2.45	≤30.00	PASS
11AC20MIMO	Ant2	5825	-2.92	≤30.00	PASS
11AC40MIMO	Ant1	5755	-4.12	≤30.00	PASS
11AC40MIMO	Ant2	5755	-3.86	≤30.00	PASS
11AC40MIMO	total	5755	-0.98	≤30.00	PASS
11AC40MIMO	Ant1	5795	-3.44	≤30.00	PASS
11AC40MIMO	Ant2	5795	-3.56	≤30.00	PASS
11AC40MIMO	total	5795	-0.49	≤30.00	PASS
11AC80MIMO	Ant1	5775	-6.41	≤30.00	PASS
11AC80MIMO	Ant2	5775	-6.90	≤30.00	PASS
11AC80MIMO	total	5775	-3.64	≤30.00	PASS
11AX20MIMO	Ant1	5745	-3.26	≤30.00	PASS
11AX20MIMO	Ant2	5745	-2.99	≤30.00	PASS
11AX20MIMO	total	5745	-0.11	≤30.00	PASS
11AX20MIMO	Ant1	5785	-2.50	≤30.00	PASS
11AX20MIMO	Ant2	5785	-3.21	≤30.00	PASS
11AX20MIMO	total	5785	0.17	≤30.00	PASS
11AX20MIMO	Ant1	5825	-2.42	≤30.00	PASS
11AX20MIMO	Ant2	5825	-3.34	≤30.00	PASS
11AX20MIMO	total	5825	0.15	≤30.00	PASS
11AX40MIMO	Ant1	5755	-4.21	≤30.00	PASS
11AX40MIMO	Ant2	5755	-3.94	≤30.00	PASS
11AX40MIMO	total	5755	-1.06	≤30.00	PASS
11AX40MIMO	Ant1	5795	-3.87	≤30.00	PASS
11AX40MIMO	Ant2	5795	-3.98	≤30.00	PASS
11AX40MIMO	total	5795	-0.91	≤30.00	PASS
11AX80MIMO	Ant1	5775	-6.68	≤30.00	PASS
11AX80MIMO	Ant2	5775	-6.87	≤30.00	PASS
11AX80MIMO	total	5775	-3.76	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test system

All transmit signals are completely uncorrelated with each other;

5150-5250MHz: Directional gain = 3.86dBi

5725-5850MHz: Directional gain = 3.82dBi

For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/300 \text{ kHz})$ to the measured result, i.e. 2.22 dB.

During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, $\text{offset} = \text{cable loss} + \text{duty factor} + 10 \log(500 \text{ kHz}/300 \text{ kHz})$.



11A-CDD-Ant1-5180-PASS



11A-CDD-Ant2-5180-PASS



11A-CDD-Ant1-5200-PASS



11A-CDD-Ant2-5200-PASS



11A-CDD-Ant1-5240-PASS



11A-CDD-Ant2-5240-PASS



11A-CDD-Ant1-5745-PASS



11A-CDD-Ant2-5745-PASS



11A-CDD-Ant1-5785-PASS



11A-CDD-Ant2-5785-PASS



11A-CDD-Ant1-5825-PASS



11A-CDD-Ant2-5825-PASS



11N20MIMO-Ant1-5180-PASS



11N20MIMO-Ant2-5180-PASS



11N20MIMO-Ant1-5200-PASS



11N20MIMO-Ant2-5200-PASS



11N20MIMO-Ant1-5240-PASS



11N20MIMO-Ant2-5240-PASS



11N20MIMO-Ant1-5745-PASS



11N20MIMO-Ant2-5745-PASS



11N20MIMO-Ant1-5785-PASS



11N20MIMO-Ant2-5785-PASS