11AX160MIMO_Ant4_5250

11AX160MIMO_Ant1_5570

11AX160MIMO_Ant2_5570

11AX160MIMO_Ant3_5570

11AX160MIMO_Ant4_5570

Min emission bandwidth

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-MIMO	Ant1	5745	16.360	5736.760	5753.120	0.5	PASS
	Ant2	5745	16.360	5736.760	5753.120	0.5	PASS
	Ant3	5745	16.360	5736.800	5753.160	0.5	PASS
	Ant4	5745	16.320	5736.800	5753.120	0.5	PASS
	Ant1	5785	16.360	5776.760	5793.120	0.5	PASS
	Ant2	5785	16.360	5776.800	5793.160	0.5	PASS
	Ant3	5785	16.360	5776.800	5793.160	0.5	PASS
	Ant4	5785	16.360	5776.800	5793.160	0.5	PASS
	Ant1	5825	39.920	5805.040	5844.960	0.5	PASS
	Ant2	5825	16.360	5816.800	5833.160	0.5	PASS
	Ant3	5825	16.360	5816.800	5833.160	0.5	PASS
	Ant4	5825	16.480	5816.760	5833.240	0.5	PASS
11N40MIMO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant2	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant3	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant4	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant1	5795	36.320	5776.840	5813.160	0.5	PASS
	Ant2	5795	36.320	5776.840	5813.160	0.5	PASS
	Ant3	5795	36.320	5776.840	5813.160	0.5	PASS
	Ant4	5795	36.320	5776.840	5813.160	0.5	PASS
11AC80MIMO	Ant1	5775	76.000	5736.760	5812.760	0.5	PASS
	Ant2	5775	76.320	5736.760	5813.080	0.5	PASS
	Ant3	5775	76.320	5736.760	5813.080	0.5	PASS
	Ant4	5775	76.320	5736.760	5813.080	0.5	PASS
11AX20MIMO	Ant1	5745	18.880	5735.520	5754.400	0.5	PASS
	Ant2	5745	18.880	5735.480	5754.360	0.5	PASS
	Ant3	5745	18.840	5735.600	5754.440	0.5	PASS
	Ant4	5745	18.960	5735.480	5754.440	0.5	PASS
	Ant1	5785	18.920	5775.520	5794.440	0.5	PASS
	Ant2	5785	18.920	5775.520	5794.440	0.5	PASS
	Ant3	5785	18.880	5775.520	5794.400	0.5	PASS
	Ant4	5785	18.800	5775.520	5794.320	0.5	PASS
	Ant1	5825	18.800	5815.560	5834.360	0.5	PASS
	Ant2	5825	18.840	5815.520	5834.360	0.5	PASS
	Ant3	5825	18.600	5815.640	5834.240	0.5	PASS
	Ant4	5825	19.000	5815.480	5834.480	0.5	PASS
11AX40MIMO	Ant1	5755	37.760	5735.960	5773.720	0.5	PASS
	Ant2	5755	37.600	5736.200	5773.800	0.5	PASS

	Ant3	5755	37.680	5736.200	5773.880	0.5	PASS
	Ant4	5755	37.760	5736.120	5773.880	0.5	PASS
	Ant1	5795	37.600	5776.200	5813.800	0.5	PASS
	Ant2	5795	37.680	5776.200	5813.880	0.5	PASS
	Ant3	5795	37.520	5776.200	5813.720	0.5	PASS
	Ant4	5795	37.600	5776.120	5813.720	0.5	PASS
11AX80MIMO	Ant1	5775	77.920	5736.120	5814.040	0.5	PASS
	Ant2	5775	77.440	5736.120	5813.560	0.5	PASS
	Ant3	5775	77.440	5736.440	5813.880	0.5	PASS
	Ant4	5775	77.440	5736.280	5813.720	0.5	PASS

11A-MIMO_Ant1_5745

11A-MIMO_Ant2_5745

11A-MIMO_Ant3_5745

11A-MIMO_Ant4_5745

11A-MIMO_Ant1_5785

11A-MIMO_Ant2_5785

11A-MIMO_Ant3_5785

11A-MIMO_Ant4_5785

11A-MIMO_Ant1_5825

11A-MIMO_Ant2_5825

11A-MIMO_Ant3_5825

11A-MIMO_Ant4_5825

11N40MIMO_Ant1_5755

11N40MIMO_Ant2_5755

11N40MIMO_Ant3_5755

11N40MIMO_Ant4_5755

11N40MIMO_Ant1_5795

11N40MIMO_Ant2_5795

11N40MIMO_Ant3_5795

11N40MIMO_Ant4_5795

11AC80MIMO_Ant1_5775

11AC80MIMO_Ant2_5775

11AC80MIMO_Ant3_5775

11AC80MIMO_Ant4_5775

11AX20MIMO_Ant1_5745

11AX20MIMO_Ant2_5745

11AX20MIMO_Ant3_5745

11AX20MIMO_Ant4_5745

11AX20MIMO_Ant1_5785

11AX20MIMO_Ant2_5785

11AX20MIMO_Ant3_5785

11AX20MIMO_Ant1_5825

11AX20MIMO_Ant2_5825

11AX20MIMO_Ant3_5825

11AX20MIMO_Ant4_5825

11AX40MIMO_Ant1_5755

11AX40MIMO_Ant2_5755

11AX40MIMO_Ant3_5755

11AX40MIMO_Ant4_5755

11AX40MIMO_Ant1_5795

11AX40MIMO_Ant2_5795

11AX40MIMO_Ant3_5795

11AX40MIMO_Ant4_5795

11AX80MIMO_Ant1_5775

11AX80MIMO_Ant2_5775

11AX80MIMO_Ant3_5775

11AX80MIMO_Ant4_5775

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 The Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A-MIMO	Ant1	5180	21.18	≤29.06	PASS
	Ant2	5180	20.40	≤29.06	PASS
	Ant3	5180	21.11	≤29.06	PASS
	Ant4	5180	21.63	≤29.06	PASS
	total	5180	27.12	≤29.06	PASS
	Ant1	5200	20.40	≤29.06	PASS
	Ant2	5200	21.04	≤29.06	PASS
	Ant3	5200	20.39	≤29.06	PASS
	Ant4	5200	21.75	≤29.06	PASS
	total	5200	26.95	≤29.06	PASS
	Ant1	5240	20.21	≤29.06	PASS
	Ant2	5240	20.95	≤29.06	PASS
	Ant3	5240	20.66	≤29.06	PASS
	Ant4	5240	21.39	≤29.06	PASS
	total	5240	26.84	≤29.06	PASS
	Ant1	5260	14.41	≤23.04	PASS
	Ant2	5260	15.22	≤23.04	PASS
	Ant3	5260	15.00	≤23.04	PASS
	Ant4	5260	15.34	≤23.04	PASS
	total	5260	21.03	≤23.04	PASS
	Ant1	5300	14.86	≤23.04	PASS
	Ant2	5300	15.39	≤23.04	PASS
	Ant3	5300	14.96	≤23.04	PASS
	Ant4	5300	15.00	≤23.04	PASS
	total	5300	21.08	≤23.04	PASS
	Ant1	5320	14.45	≤23.04	PASS
	Ant2	5320	15.09	≤23.04	PASS
	Ant3	5320	14.70	≤23.04	PASS
	Ant4	5320	14.50	≤23.04	PASS
	total	5320	20.71	≤23.04	PASS
	Ant1	5500	14.47	≤23.07	PASS
	Ant2	5500	15.25	≤23.07	PASS
	Ant3	5500	14.87	≤23.07	PASS
	Ant4	5500	14.62	≤23.07	PASS
	total	5500	20.83	≤23.07	PASS
	Ant1	5580	14.60	≤23.07	PASS
	Ant2	5580	15.46	≤23.07	PASS

	Ant3	5580	15.05	≤23.07	PASS
	Ant4	5580	14.58	≤23.07	PASS
	total	5580	20.96	≤23.07	PASS
	Ant1	5700	15.25	≤23.07	PASS
	Ant2	5700	14.88	≤23.07	PASS
	Ant3	5700	14.75	≤23.07	PASS
	Ant4	5700	15.26	≤23.07	PASS
	total	5700	21.06	≤23.07	PASS
	Ant1	5720	13.33	≤23.07	PASS
	Ant2	5720	12.98	≤23.07	PASS
	Ant3	5720	12.71	≤23.07	PASS
	Ant4	5720	12.99	≤23.07	PASS
	total	5720	19.03	≤23.07	PASS
	Ant1	5745	22.62	≤29.04	PASS
	Ant2	5745	23.02	≤29.04	PASS
	Ant3	5745	21.94	≤29.04	PASS
	Ant4	5745	22.84	≤29.04	PASS
	total	5745	28.64	≤29.04	PASS
	Ant1	5785	22.91	≤29.04	PASS
	Ant2	5785	22.90	≤29.04	PASS
	Ant3	5785	22.31	≤29.04	PASS
	Ant4	5785	23.34	≤29.04	PASS
	total	5785	28.90	≤29.04	PASS
	Ant1	5825	22.87	≤29.04	PASS
	Ant2	5825	23.07	≤29.04	PASS
	Ant3	5825	22.35	≤29.04	PASS
	Ant4	5825	23.33	≤29.04	PASS
	total	5825	28.94	≤29.04	PASS
11N40MIMO	Ant1	5190	16.61	≤29.06	PASS
	Ant2	5190	16.94	≤29.06	PASS
	Ant3	5190	16.32	≤29.06	PASS
	Ant4	5190	18.21	≤29.06	PASS
	total	5190	23.10	≤29.06	PASS
	Ant1	5230	22.05	≤29.06	PASS
	Ant2	5230	22.52	≤29.06	PASS
	Ant3	5230	21.91	≤29.06	PASS
	Ant4	5230	23.30	≤29.06	PASS
	total	5230	28.50	≤29.06	PASS
	Ant1	5270	16.25	≤23.04	PASS
	Ant2	5270	17.35	≤23.04	PASS
	Ant3	5270	16.84	≤23.04	PASS

	Ant4	5270	17.32	≤23.04	PASS
	total	5270	22.98	≤23.04	PASS
	Ant1	5310	16.42	≤23.04	PASS
	Ant2	5310	17.40	≤23.04	PASS
	Ant3	5310	16.75	≤23.04	PASS
	Ant4	5310	17.06	≤23.04	PASS
	total	5310	22.94	≤23.04	PASS
	Ant1	5510	16.07	≤23.07	PASS
	Ant2	5510	16.93	≤23.07	PASS
	Ant3	5510	16.24	≤23.07	PASS
	Ant4	5510	16.04	≤23.07	PASS
	total	5510	22.36	≤23.07	PASS
	Ant1	5550	16.27	≤23.07	PASS
	Ant2	5550	17.20	≤23.07	PASS
	Ant3	5550	16.78	≤23.07	PASS
	Ant4	5550	16.40	≤23.07	PASS
	total	5550	22.70	≤23.07	PASS
	Ant1	5670	16.82	≤23.07	PASS
	Ant2	5670	17.05	≤23.07	PASS
	Ant3	5670	16.46	≤23.07	PASS
	Ant4	5670	17.24	≤23.07	PASS
	total	5670	22.92	≤23.07	PASS
	Ant1	5710	16.87	≤23.07	PASS
	Ant2	5710	17.05	≤23.07	PASS
	Ant3	5710	15.95	≤23.07	PASS
	Ant4	5710	17.19	≤23.07	PASS
	total	5710	22.81	≤23.07	PASS
	Ant1	5755	22.66	≤29.04	PASS
	Ant2	5755	23.05	≤29.04	PASS
	Ant3	5755	22.05	≤29.04	PASS
	Ant4	5755	22.84	≤29.04	PASS
	total	5755	28.69	≤29.04	PASS
	Ant1	5795	22.99	≤29.04	PASS
	Ant2	5795	23.01	≤29.04	PASS
	Ant3	5795	22.41	≤29.04	PASS
	Ant4	5795	23.34	≤29.04	PASS
	total	5795	28.97	≤29.04	PASS
11AC80MIMO	Ant1	5210	15.86	≤29.06	PASS
	Ant2	5210	16.29	≤29.06	PASS
	Ant3	5210	15.74	≤29.06	PASS
	Ant4	5210	17.47	≤29.06	PASS

	total	5210	22.42	≤29.06	PASS
	Ant1	5290	15.27	≤23.04	PASS
	Ant2	5290	16.30	≤23.04	PASS
	Ant3	5290	15.94	≤23.04	PASS
	Ant4	5290	16.74	≤23.04	PASS
	total	5290	22.12	≤23.04	PASS
	Ant1	5530	16.38	≤23.07	PASS
	Ant2	5530	17.27	≤23.07	PASS
	Ant3	5530	16.71	≤23.07	PASS
	Ant4	5530	16.37	≤23.07	PASS
	total	5530	22.72	≤23.07	PASS
	Ant1	5610	17.21	≤23.07	PASS
	Ant2	5610	16.45	≤23.07	PASS
	Ant3	5610	17.05	≤23.07	PASS
	Ant4	5610	17.11	≤23.07	PASS
	total	5610	22.99	≤23.07	PASS
	Ant1	5690	16.91	≤23.07	PASS
	Ant2	5690	16.99	≤23.07	PASS
	Ant3	5690	16.42	≤23.07	PASS
	Ant4	5690	17.12	≤23.07	PASS
	total	5690	22.88	≤23.07	PASS
	Ant1	5775	19.12	≤29.04	PASS
	Ant2	5775	20.26	≤29.04	PASS
	Ant3	5775	19.76	≤29.04	PASS
	Ant4	5775	21.43	≤29.04	PASS
	total	5775	26.25	≤29.04	PASS
11AC160MIMO	Ant1	5250	14.30	≤23.04	PASS
	Ant2	5250	14.85	≤23.04	PASS
	Ant3	5250	14.43	≤23.04	PASS
	Ant4	5250	15.63	≤23.04	PASS
	total	5250	20.86	≤23.04	PASS
	Ant1	5570	13.35	≤23.07	PASS
	Ant2	5570	14.57	≤23.07	PASS
	Ant3	5570	14.10	≤23.07	PASS
	Ant4	5570	14.38	≤23.07	PASS
	total	5570	20.14	≤23.07	PASS
11AX20MIMO	Ant1	5180	20.87	≤29.06	PASS
	Ant2	5180	21.50	≤29.06	PASS
	Ant3	5180	20.41	≤29.06	PASS
	Ant4	5180	22.34	≤29.06	PASS
	total	5180	27.36	≤29.06	PASS

	Ant1	5200	20.98	≤29.06	PASS
	Ant2	5200	21.26	≤29.06	PASS
	Ant3	5200	20.30	≤29.06	PASS
	Ant4	5200	22.19	≤29.06	PASS
	total	5200	27.26	≤29.06	PASS
	Ant1	5240	20.60	≤29.06	PASS
	Ant2	5240	21.23	≤29.06	PASS
	Ant3	5240	20.47	≤29.06	PASS
	Ant4	5240	21.77	≤29.06	PASS
	total	5240	27.07	≤29.06	PASS
	Ant1	5260	14.74	≤23.04	PASS
	Ant2	5260	15.49	≤23.04	PASS
	Ant3	5260	15.30	≤23.04	PASS
	Ant4	5260	15.56	≤23.04	PASS
	total	5260	21.30	≤23.04	PASS
	Ant1	5300	15.00	≤23.04	PASS
	Ant2	5300	15.63	≤23.04	PASS
	Ant3	5300	15.13	≤23.04	PASS
	Ant4	5300	15.32	≤23.04	PASS
	total	5300	21.30	≤23.04	PASS
	Ant1	5320	14.64	≤23.04	PASS
	Ant2	5320	15.41	≤23.04	PASS
	Ant3	5320	14.84	≤23.04	PASS
	Ant4	5320	14.71	≤23.04	PASS
	total	5320	20.93	≤23.04	PASS
	Ant1	5500	14.62	≤23.07	PASS
	Ant2	5500	15.48	≤23.07	PASS
	Ant3	5500	15.11	≤23.07	PASS
	Ant4	5500	14.93	≤23.07	PASS
	total	5500	21.07	≤23.07	PASS
	Ant1	5580	14.57	≤23.07	PASS
	Ant2	5580	15.41	≤23.07	PASS
	Ant3	5580	15.17	≤23.07	PASS
	Ant4	5580	14.74	≤23.07	PASS
	total	5580	21.01	≤23.07	PASS
	Ant1	5700	15.45	≤23.07	PASS
	Ant2	5700	15.37	≤23.07	PASS
	Ant3	5700	14.96	≤23.07	PASS
	Ant4	5700	15.48	≤23.07	PASS
	total	5700	21.34	≤23.07	PASS
	Ant1	5720	13.78	≤23.07	PASS

	Ant2	5720	13.77	≤23.07	PASS
	Ant3	5720	13.43	≤23.07	PASS
	Ant4	5720	13.73	≤23.07	PASS
	total	5720	19.70	≤23.07	PASS
	Ant1	5745	22.63	≤29.04	PASS
	Ant2	5745	23.24	≤29.04	PASS
	Ant3	5745	21.89	≤29.04	PASS
	Ant4	5745	22.97	≤29.04	PASS
	total	5745	28.73	≤29.04	PASS
	Ant1	5785	22.76	≤29.04	PASS
	Ant2	5785	23.17	≤29.04	PASS
	Ant3	5785	22.21	≤29.04	PASS
	Ant4	5785	23.59	≤29.04	PASS
	total	5785	28.98	≤29.04	PASS
	Ant1	5825	22.20	≤29.04	PASS
	Ant2	5825	23.33	≤29.04	PASS
	Ant3	5825	22.24	≤29.04	PASS
	Ant4	5825	23.49	≤29.04	PASS
	total	5825	28.88	≤29.04	PASS
11AX40MIMO	Ant1	5190	17.40	≤29.06	PASS
	Ant2	5190	17.49	≤29.06	PASS
	Ant3	5190	16.76	≤29.06	PASS
	Ant4	5190	18.73	≤29.06	PASS
	total	5190	23.68	≤29.06	PASS
	Ant1	5230	22.08	≤29.06	PASS
	Ant2	5230	22.90	≤29.06	PASS
	Ant3	5230	21.85	≤29.06	PASS
	Ant4	5230	23.55	≤29.06	PASS
	total	5230	28.67	≤29.06	PASS
	Ant1	5270	15.98	≤23.04	PASS
	Ant2	5270	17.24	≤23.04	PASS
	Ant3	5270	16.55	≤23.04	PASS
	Ant4	5270	17.30	≤23.04	PASS
	total	5270	22.82	≤23.04	PASS
	Ant1	5310	16.10	≤23.04	PASS
	Ant2	5310	17.22	≤23.04	PASS
	Ant3	5310	16.56	≤23.04	PASS
	Ant4	5310	16.83	≤23.04	PASS
	total	5310	22.72	≤23.04	PASS
	Ant1	5510	15.70	≤23.07	PASS
	Ant2	5510	16.92	≤23.07	PASS

	Ant3	5510	16.49	≤23.07	PASS
	Ant4	5510	16.27	≤23.07	PASS
	total	5510	22.39	≤23.07	PASS
	Ant1	5550	16.06	≤23.07	PASS
	Ant2	5550	17.45	≤23.07	PASS
	Ant3	5550	16.73	≤23.07	PASS
	Ant4	5550	16.54	≤23.07	PASS
	total	5550	22.74	≤23.07	PASS
	Ant1	5670	16.65	≤23.07	PASS
	Ant2	5670	17.12	≤23.07	PASS
	Ant3	5670	16.77	≤23.07	PASS
	Ant4	5670	17.28	≤23.07	PASS
	total	5670	22.98	≤23.07	PASS
	Ant1	5710	16.77	≤23.07	PASS
	Ant2	5710	17.28	≤23.07	PASS
	Ant3	5710	16.35	≤23.07	PASS
	Ant4	5710	17.44	≤23.07	PASS
	total	5710	23.00	≤23.07	PASS
	Ant1	5755	22.41	≤29.04	PASS
	Ant2	5755	23.29	≤29.04	PASS
	Ant3	5755	22.43	≤29.04	PASS
	Ant4	5755	23.06	≤29.04	PASS
	total	5755	28.84	≤29.04	PASS
	Ant1	5795	22.50	≤29.04	PASS
	Ant2	5795	23.14	≤29.04	PASS
	Ant3	5795	22.32	≤29.04	PASS
	Ant4	5795	23.58	≤29.04	PASS
	total	5795	28.94	≤29.04	PASS
11AX80MIMO	Ant1	5210	16.44	≤29.06	PASS
	Ant2	5210	16.61	≤29.06	PASS
	Ant3	5210	16.02	≤29.06	PASS
	Ant4	5210	17.83	≤29.06	PASS
	total	5210	22.80	≤29.06	PASS
	Ant1	5290	15.69	≤23.04	PASS
	Ant2	5290	16.61	≤23.04	PASS
	Ant3	5290	16.22	≤23.04	PASS
	Ant4	5290	17.09	≤23.04	PASS
	total	5290	22.45	≤23.04	PASS
	Ant1	5530	16.36	≤23.07	PASS
	Ant2	5530	17.37	≤23.07	PASS
	Ant3	5530	16.65	≤23.07	PASS

	Ant4	5530	16.68	≤23.07	PASS
	total	5530	22.80	≤23.07	PASS
	Ant1	5610	17.30	≤23.07	PASS
	Ant2	5610	16.40	≤23.07	PASS
	Ant3	5610	16.96	≤23.07	PASS
	Ant4	5610	16.96	≤23.07	PASS
	total	5610	22.94	≤23.07	PASS
	Ant1	5690	16.63	≤23.07	PASS
	Ant2	5690	17.23	≤23.07	PASS
	Ant3	5690	16.28	≤23.07	PASS
	Ant4	5690	17.35	≤23.07	PASS
	total	5690	22.92	≤23.07	PASS
	Ant1	5775	19.48	≤29.04	PASS
	Ant2	5775	20.58	≤29.04	PASS
	Ant3	5775	20.06	≤29.04	PASS
	Ant4	5775	21.72	≤29.04	PASS
	total	5775	26.56	≤29.04	PASS
11AX160MIMO	Ant1	5250	14.57	≤23.04	PASS
	Ant2	5250	15.09	≤23.04	PASS
	Ant3	5250	14.72	≤23.04	PASS
	Ant4	5250	15.93	≤23.04	PASS
	total	5250	21.13	≤23.04	PASS
	Ant1	5570	14.38	≤23.07	PASS
	Ant2	5570	15.40	≤23.07	PASS
	Ant3	5570	15.05	≤23.07	PASS
	Ant4	5570	15.49	≤23.07	PASS
	total	5570	21.12	≤23.07	PASS

Note：The results have compensated for the Duty Cycle Correction Factor

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

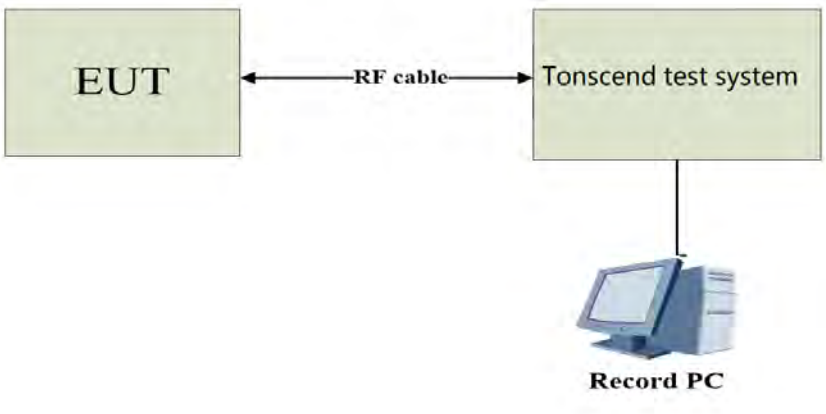
3.5.2 Test Procedure

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 tonscend 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); = 300kHz (Band4)
VBW	≥3 x 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

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-MIMO	Ant1	5180	9.08	≤16.06	PASS
	Ant2	5180	10.03	≤16.06	PASS
	Ant3	5180	9.49	≤16.06	PASS
	Ant4	5180	10.85	≤16.06	PASS
	total	5180	15.93	≤16.06	PASS
	Ant1	5200	9.23	≤16.06	PASS
	Ant2	5200	9.91	≤16.06	PASS
	Ant3	5200	9.24	≤16.06	PASS
	Ant4	5200	10.53	≤16.06	PASS
	total	5200	15.78	≤16.06	PASS
	Ant1	5240	9.13	≤16.06	PASS
	Ant2	5240	9.93	≤16.06	PASS
	Ant3	5240	9.78	≤16.06	PASS
	Ant4	5240	10.21	≤16.06	PASS
	total	5240	15.80	≤16.06	PASS
	Ant1	5260	3.34	≤10.06	PASS
	Ant2	5260	4.27	≤10.06	PASS
	Ant3	5260	4.10	≤10.06	PASS
	Ant4	5260	4.18	≤10.06	PASS
	total	5260	10.01	≤10.06	PASS
	Ant1	5300	3.77	≤10.06	PASS
	Ant2	5300	4.37	≤10.06	PASS
	Ant3	5300	4.04	≤10.06	PASS
	Ant4	5300	3.87	≤10.06	PASS
	total	5300	10.04	≤10.06	PASS
	Ant1	5320	3.33	≤10.06	PASS
	Ant2	5320	4.00	≤10.06	PASS
	Ant3	5320	3.56	≤10.06	PASS
	Ant4	5320	3.55	≤10.06	PASS
	total	5320	9.64	≤10.06	PASS
	Ant1	5500	3.23	≤10.09	PASS
	Ant2	5500	4.02	≤10.09	PASS
	Ant3	5500	3.84	≤10.09	PASS
	Ant4	5500	3.40	≤10.09	PASS
	total	5500	9.65	≤10.09	PASS
	Ant1	5580	3.46	≤10.09	PASS
	Ant2	5580	4.44	≤10.09	PASS
	Ant3	5580	3.95	≤10.09	PASS

	Ant4	5580	3.39	≤10.09	PASS
	total	5580	9.85	≤10.09	PASS
	Ant1	5700	4.29	≤10.09	PASS
	Ant2	5700	3.69	≤10.09	PASS
	Ant3	5700	3.85	≤10.09	PASS
	Ant4	5700	4.04	≤10.09	PASS
	total	5700	9.99	≤10.09	PASS
	Ant1	5720_UNII-2C	2.47	≤10.09	PASS
	Ant2	5720_UNII-2C	2.05	≤10.09	PASS
	Ant3	5720_UNII-2C	1.70	≤10.09	PASS
	Ant4	5720_UNII-2C	1.95	≤10.09	PASS
	total	5720_UNII-2C	8.07	≤10.09	PASS
	Ant1	5720_UNII-3	-1.09	≤29.04	PASS
	Ant2	5720_UNII-3	-1.08	≤29.04	PASS
	Ant3	5720_UNII-3	-1.55	≤29.04	PASS
	Ant4	5720_UNII-3	-1.17	≤29.04	PASS
	total	5720_UNII-3	4.80	≤29.04	PASS
	Ant1	5745	8.49	≤29.04	PASS
	Ant2	5745	8.86	≤29.04	PASS
	Ant3	5745	8.01	≤29.04	PASS
	Ant4	5745	8.80	≤29.04	PASS
	total	5745	14.57	≤29.04	PASS
	Ant1	5785	8.97	≤29.04	PASS
	Ant2	5785	8.84	≤29.04	PASS
	Ant3	5785	8.41	≤29.04	PASS
	Ant4	5785	9.31	≤29.04	PASS
	total	5785	14.91	≤29.04	PASS
	Ant1	5825	8.93	≤29.04	PASS
	Ant2	5825	9.11	≤29.04	PASS
	Ant3	5825	8.27	≤29.04	PASS
	Ant4	5825	9.43	≤29.04	PASS
	total	5825	14.98	≤29.04	PASS
11N40MIMO	Ant1	5190	2.46	≤16.06	PASS
	Ant2	5190	1.97	≤16.06	PASS
	Ant3	5190	2.95	≤16.06	PASS
	Ant4	5190	3.23	≤16.06	PASS
	total	5190	8.70	≤16.06	PASS
	Ant1	5230	7.83	≤16.06	PASS
	Ant2	5230	8.22	≤16.06	PASS
	Ant3	5230	7.52	≤16.06	PASS
	Ant4	5230	8.84	≤16.06	PASS

	total	5230	14.15	≤16.06	PASS
	Ant1	5270	1.90	≤10.06	PASS
	Ant2	5270	3.11	≤10.06	PASS
	Ant3	5270	2.56	≤10.06	PASS
	Ant4	5270	2.99	≤10.06	PASS
	total	5270	8.69	≤10.06	PASS
	Ant1	5310	2.04	≤10.06	PASS
	Ant2	5310	3.20	≤10.06	PASS
	Ant3	5310	2.34	≤10.06	PASS
	Ant4	5310	2.73	≤10.06	PASS
	total	5310	8.62	≤10.06	PASS
	Ant1	5510	1.76	≤10.09	PASS
	Ant2	5510	2.62	≤10.09	PASS
	Ant3	5510	1.80	≤10.09	PASS
	Ant4	5510	1.70	≤10.09	PASS
	total	5510	8.01	≤10.09	PASS
	Ant1	5550	1.68	≤10.09	PASS
	Ant2	5550	2.70	≤10.09	PASS
	Ant3	5550	2.23	≤10.09	PASS
	Ant4	5550	1.73	≤10.09	PASS
	total	5550	8.13	≤10.09	PASS
	Ant1	5670	2.33	≤10.09	PASS
	Ant2	5670	2.58	≤10.09	PASS
	Ant3	5670	2.08	≤10.09	PASS
	Ant4	5670	2.83	≤10.09	PASS
	total	5670	8.48	≤10.09	PASS
	Ant1	5710_UNII-2C	2.63	≤10.09	PASS
	Ant2	5710_UNII-2C	2.68	≤10.09	PASS
	Ant3	5710_UNII-2C	1.70	≤10.09	PASS
	Ant4	5710_UNII-2C	3.04	≤10.09	PASS
	total	5710_UNII-2C	8.56	≤10.09	PASS
	Ant1	5710_UNII-3	-1.42	≤29.04	PASS
	Ant2	5710_UNII-3	-1.01	≤29.04	PASS
	Ant3	5710_UNII-3	-1.74	≤29.04	PASS
	Ant4	5710_UNII-3	-1.06	≤29.04	PASS
	total	5710_UNII-3	4.72	≤29.04	PASS
	Ant1	5755	5.34	≤29.04	PASS
	Ant2	5755	5.91	≤29.04	PASS
	Ant3	5755	4.80	≤29.04	PASS
	Ant4	5755	5.63	≤29.04	PASS
	total	5755	11.46	≤29.04	PASS

	Ant1	5795	5.74	≤29.04	PASS
	Ant2	5795	5.98	≤29.04	PASS
	Ant3	5795	5.14	≤29.04	PASS
	Ant4	5795	6.01	≤29.04	PASS
	total	5795	11.75	≤29.04	PASS
11AC80MIMO	Ant1	5210	4.77	≤16.06	PASS
	Ant2	5210	-2.03	≤16.06	PASS
	Ant3	5210	-0.98	≤16.06	PASS
	Ant4	5210	-0.72	≤16.06	PASS
	total	5210	7.22	≤16.06	PASS
	Ant1	5290	-1.77	≤10.06	PASS
	Ant2	5290	-1.68	≤10.06	PASS
	Ant3	5290	-1.08	≤10.06	PASS
	Ant4	5290	-1.54	≤10.06	PASS
	total	5290	4.51	≤10.06	PASS
	Ant1	5530	-1.12	≤10.09	PASS
	Ant2	5530	-0.19	≤10.09	PASS
	Ant3	5530	-0.70	≤10.09	PASS
	Ant4	5530	-0.78	≤10.09	PASS
	total	5530	5.34	≤10.09	PASS
	Ant1	5610	-0.14	≤10.09	PASS
	Ant2	5610	-1.17	≤10.09	PASS
	Ant3	5610	-0.41	≤10.09	PASS
	Ant4	5610	-0.25	≤10.09	PASS
	total	5610	5.55	≤10.09	PASS
	Ant1	5690_UNII-2C	-0.36	≤10.09	PASS
	Ant2	5690_UNII-2C	-0.38	≤10.09	PASS
	Ant3	5690_UNII-2C	-0.85	≤10.09	PASS
	Ant4	5690_UNII-2C	-0.10	≤10.09	PASS
	total	5690_UNII-2C	5.61	≤10.09	PASS
	Ant1	5690_UNII-3	-4.71	≤29.04	PASS
	Ant2	5690_UNII-3	-4.23	≤29.04	PASS
	Ant3	5690_UNII-3	-4.96	≤29.04	PASS
	Ant4	5690_UNII-3	-4.55	≤29.04	PASS
	total	5690_UNII-3	1.42	≤29.04	PASS
	Ant1	5775	0.04	≤29.04	PASS
	Ant2	5775	-0.28	≤29.04	PASS
	Ant3	5775	0.27	≤29.04	PASS
	Ant4	5775	0.01	≤29.04	PASS
	total	5775	6.03	≤29.04	PASS
11AC160MIMO	Ant1	5250_UNII-1	-5.64	≤16.06	PASS

	Ant2	5250_UNII-1	-5.70	≤16.06	PASS
	Ant3	5250_UNII-1	-4.99	≤16.06	PASS
	Ant4	5250_UNII-1	-5.06	≤16.06	PASS
	total	5250_UNII-1	0.69	≤16.06	PASS
	Ant1	5250_UNII-2A	-5.51	≤10.06	PASS
	Ant2	5250_UNII-2A	-5.70	≤10.06	PASS
	Ant3	5250_UNII-2A	-4.89	≤10.06	PASS
	Ant4	5250_UNII-2A	-4.99	≤10.06	PASS
	total	5250_UNII-2A	0.76	≤10.06	PASS
	Ant1	5570	-5.26	≤10.09	PASS
	Ant2	5570	-5.05	≤10.09	PASS
	Ant3	5570	-4.55	≤10.09	PASS
	Ant4	5570	-5.07	≤10.09	PASS
	total	5570	1.05	≤10.09	PASS
11AX20MIMO	Ant1	5180	9.45	≤16.06	PASS
	Ant2	5180	9.94	≤16.06	PASS
	Ant3	5180	8.91	≤16.06	PASS
	Ant4	5180	10.77	≤16.06	PASS
	total	5180	15.84	≤16.06	PASS
	Ant1	5200	9.65	≤16.06	PASS
	Ant2	5200	9.67	≤16.06	PASS
	Ant3	5200	8.69	≤16.06	PASS
	Ant4	5200	10.49	≤16.06	PASS
	total	5200	15.69	≤16.06	PASS
	Ant1	5240	9.04	≤16.06	PASS
	Ant2	5240	9.60	≤16.06	PASS
	Ant3	5240	8.91	≤16.06	PASS
	Ant4	5240	10.12	≤16.06	PASS
	total	5240	15.47	≤16.06	PASS
	Ant1	5260	3.29	≤10.06	PASS
	Ant2	5260	4.10	≤10.06	PASS
	Ant3	5260	3.80	≤10.06	PASS
	Ant4	5260	4.01	≤10.06	PASS
	total	5260	9.83	≤10.06	PASS
	Ant1	5300	3.53	≤10.06	PASS
	Ant2	5300	4.05	≤10.06	PASS
	Ant3	5300	3.59	≤10.06	PASS
	Ant4	5300	3.78	≤10.06	PASS
	total	5300	9.76	≤10.06	PASS
	Ant1	5320	3.10	≤10.06	PASS
	Ant2	5320	3.93	≤10.06	PASS

	Ant3	5320	3.25	≤10.06	PASS
	Ant4	5320	3.38	≤10.06	PASS
	total	5320	9.45	≤10.06	PASS
	Ant1	5500	3.04	≤10.09	PASS
	Ant2	5500	3.96	≤10.09	PASS
	Ant3	5500	3.36	≤10.09	PASS
	Ant4	5500	3.36	≤10.09	PASS
	total	5500	9.46	≤10.09	PASS
	Ant1	5580	2.71	≤10.09	PASS
	Ant2	5580	3.84	≤10.09	PASS
	Ant3	5580	3.57	≤10.09	PASS
	Ant4	5580	3.25	≤10.09	PASS
	total	5580	9.38	≤10.09	PASS
	Ant1	5700	3.99	≤10.09	PASS
	Ant2	5700	3.90	≤10.09	PASS
	Ant3	5700	3.45	≤10.09	PASS
	Ant4	5700	3.90	≤10.09	PASS
	total	5700	9.84	≤10.09	PASS
	Ant1	5720_UNII-2C	2.40	≤10.09	PASS
	Ant2	5720_UNII-2C	2.28	≤10.09	PASS
	Ant3	5720_UNII-2C	1.80	≤10.09	PASS
	Ant4	5720_UNII-2C	2.18	≤10.09	PASS
	total	5720_UNII-2C	8.19	≤10.09	PASS
	Ant1	5720_UNII-3	-0.99	≤29.04	PASS
	Ant2	5720_UNII-3	-0.93	≤29.04	PASS
	Ant3	5720_UNII-3	-1.36	≤29.04	PASS
	Ant4	5720_UNII-3	-1.24	≤29.04	PASS
	total	5720_UNII-3	4.89	≤29.04	PASS
	Ant1	5745	8.43	≤29.04	PASS
	Ant2	5745	8.71	≤29.04	PASS
	Ant3	5745	7.54	≤29.04	PASS
	Ant4	5745	8.56	≤29.04	PASS
	total	5745	14.35	≤29.04	PASS
	Ant1	5785	8.42	≤29.04	PASS
	Ant2	5785	8.97	≤29.04	PASS
	Ant3	5785	7.87	≤29.04	PASS
	Ant4	5785	9.20	≤29.04	PASS
	total	5785	14.67	≤29.04	PASS
	Ant1	5825	8.44	≤29.04	PASS
	Ant2	5825	8.91	≤29.04	PASS
	Ant3	5825	7.74	≤29.04	PASS

	Ant4	5825	8.94	≤29.04	PASS
	total	5825	14.55	≤29.04	PASS
11AX40MIMO	Ant1	5190	3.02	≤16.06	PASS
	Ant2	5190	2.38	≤16.06	PASS
	Ant3	5190	3.15	≤16.06	PASS
	Ant4	5190	3.94	≤16.06	PASS
	total	5190	9.18	≤16.06	PASS
	Ant1	5230	7.59	≤16.06	PASS
	Ant2	5230	8.49	≤16.06	PASS
	Ant3	5230	7.35	≤16.06	PASS
	Ant4	5230	9.12	≤16.06	PASS
	total	5230	14.22	≤16.06	PASS
	Ant1	5270	1.45	≤10.06	PASS
	Ant2	5270	2.99	≤10.06	PASS
	Ant3	5270	2.06	≤10.06	PASS
	Ant4	5270	2.77	≤10.06	PASS
	total	5270	8.38	≤10.06	PASS
	Ant1	5310	1.64	≤10.06	PASS
	Ant2	5310	2.87	≤10.06	PASS
	Ant3	5310	2.11	≤10.06	PASS
	Ant4	5310	2.32	≤10.06	PASS
	total	5310	8.28	≤10.06	PASS
	Ant1	5510	1.03	≤10.09	PASS
	Ant2	5510	2.43	≤10.09	PASS
	Ant3	5510	1.91	≤10.09	PASS
	Ant4	5510	1.87	≤10.09	PASS
	total	5510	7.86	≤10.09	PASS
	Ant1	5550	1.47	≤10.09	PASS
	Ant2	5550	2.81	≤10.09	PASS
	Ant3	5550	2.24	≤10.09	PASS
	Ant4	5550	1.99	≤10.09	PASS
	total	5550	8.17	≤10.09	PASS
	Ant1	5670	2.19	≤10.09	PASS
	Ant2	5670	2.45	≤10.09	PASS
	Ant3	5670	2.31	≤10.09	PASS
	Ant4	5670	2.77	≤10.09	PASS
	total	5670	8.46	≤10.09	PASS
	Ant1	5710_UNII-2C	2.36	≤10.09	PASS
	Ant2	5710_UNII-2C	2.67	≤10.09	PASS
	Ant3	5710_UNII-2C	1.90	≤10.09	PASS
	Ant4	5710_UNII-2C	2.99	≤10.09	PASS

	total	5710_UNII-2C	8.52	≤10.09	PASS
	Ant1	5710_UNII-3	-1.62	≤29.04	PASS
	Ant2	5710_UNII-3	-0.72	≤29.04	PASS
	Ant3	5710_UNII-3	-1.68	≤29.04	PASS
	Ant4	5710_UNII-3	-0.78	≤29.04	PASS
	total	5710_UNII-3	4.84	≤29.04	PASS
	Ant1	5755	4.87	≤29.04	PASS
	Ant2	5755	6.32	≤29.04	PASS
	Ant3	5755	5.01	≤29.04	PASS
	Ant4	5755	5.83	≤29.04	PASS
	total	5755	11.57	≤29.04	PASS
	Ant1	5795	5.26	≤29.04	PASS
	Ant2	5795	6.00	≤29.04	PASS
	Ant3	5795	5.00	≤29.04	PASS
	Ant4	5795	6.20	≤29.04	PASS
	total	5795	11.66	≤29.04	PASS
11AX80MIMO	Ant1	5210	-0.64	≤16.06	PASS
	Ant2	5210	-1.34	≤16.06	PASS
	Ant3	5210	-0.59	≤16.06	PASS
	Ant4	5210	-0.03	≤16.06	PASS
	total	5210	5.40	≤16.06	PASS
	Ant1	5290	-1.07	≤10.06	PASS
	Ant2	5290	-0.90	≤10.06	PASS
	Ant3	5290	-0.79	≤10.06	PASS
	Ant4	5290	-1.32	≤10.06	PASS
	total	5290	5.01	≤10.06	PASS
	Ant1	5530	-1.40	≤10.09	PASS
	Ant2	5530	-0.04	≤10.09	PASS
	Ant3	5530	-0.92	≤10.09	PASS
	Ant4	5530	-0.95	≤10.09	PASS
	total	5530	5.22	≤10.09	PASS
	Ant1	5610	-0.15	≤10.09	PASS
	Ant2	5610	-0.69	≤10.09	PASS
	Ant3	5610	-37.14	≤10.09	PASS
	Ant4	5610	-0.06	≤10.09	PASS
	total	5610	4.48	≤10.09	PASS
	Ant1	5690_UNII-2C	-0.65	≤10.09	PASS
	Ant2	5690_UNII-2C	0.05	≤10.09	PASS
	Ant3	5690_UNII-2C	-0.73	≤10.09	PASS
	Ant4	5690_UNII-2C	0.43	≤10.09	PASS
	total	5690_UNII-2C	5.82	≤10.09	PASS

	Ant1	5690_UNII-3	-4.70	≤29.04	PASS
	Ant2	5690_UNII-3	-4.31	≤29.04	PASS
	Ant3	5690_UNII-3	-4.69	≤29.04	PASS
	Ant4	5690_UNII-3	-3.81	≤29.04	PASS
	total	5690_UNII-3	1.66	≤29.04	PASS
	Ant1	5775	0.33	≤29.04	PASS
	Ant2	5775	-0.21	≤29.04	PASS
	Ant3	5775	0.49	≤29.04	PASS
	Ant4	5775	0.07	≤29.04	PASS
	total	5775	6.20	≤29.04	PASS
11AX160MIMO	Ant1	5250_UNII-1	-5.18	≤16.06	PASS
	Ant2	5250_UNII-1	-5.29	≤16.06	PASS
	Ant3	5250_UNII-1	-4.94	≤16.06	PASS
	Ant4	5250_UNII-1	-4.60	≤16.06	PASS
	total	5250_UNII-1	1.03	≤16.06	PASS
	Ant1	5250_UNII-2A	-5.41	≤10.06	PASS
	Ant2	5250_UNII-2A	-5.00	≤10.06	PASS
	Ant3	5250_UNII-2A	-3.85	≤10.06	PASS
	Ant4	5250_UNII-2A	-4.73	≤10.06	PASS
	total	5250_UNII-2A	1.31	≤10.06	PASS
	Ant1	5570	-5.60	≤10.09	PASS
	Ant2	5570	-4.54	≤10.09	PASS
	Ant3	5570	-3.85	≤10.09	PASS
	Ant4	5570	-4.83	≤10.09	PASS
	total	5570	1.36	≤10.09	PASS

Note：

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. 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 kHz/300 kHz) to the measured result, i.e. 2.22 dB.
3. 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+10log(500kHz/300kHz).
4. Note：The results have compensated for the Duty Cycle Correction Factor

11A-MIMO_Ant1_5180

11A-MIMO_Ant2_5180

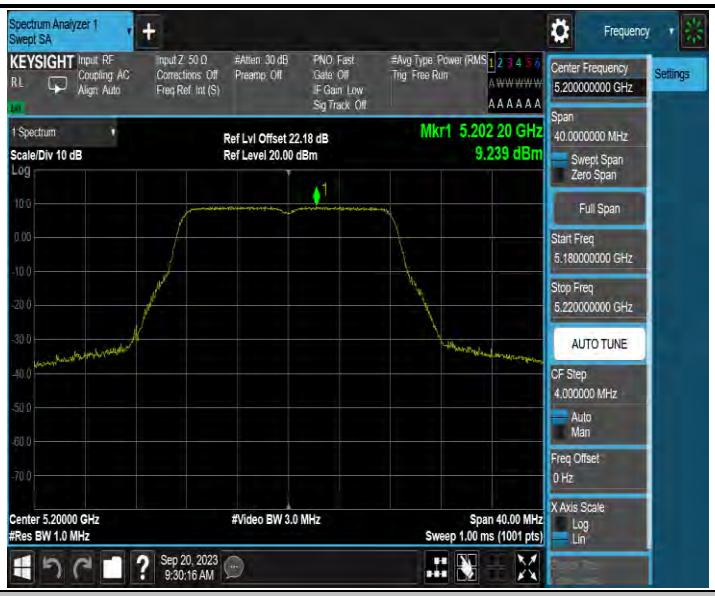
11A-MIMO_Ant3_5180

11A-MIMO_Ant4_5180

11A-MIMO_Ant1_5200

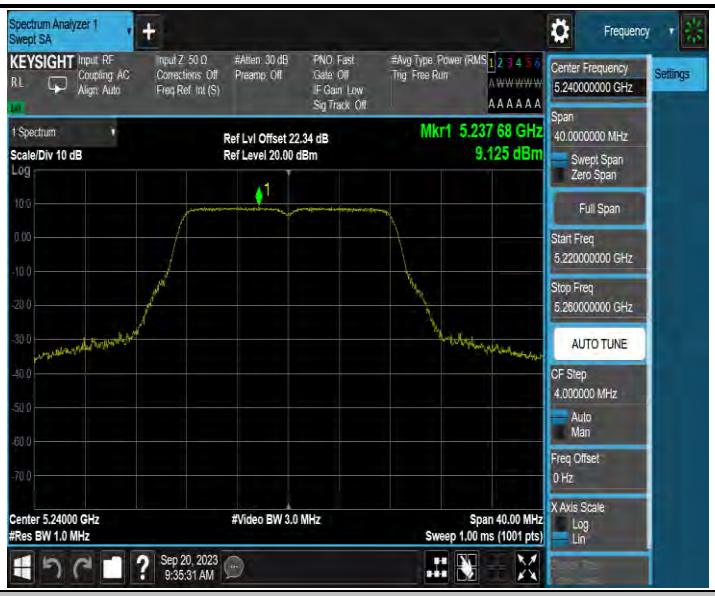
11A-MIMO_Ant2_5200

11A-MIMO_Ant3_5200



11A-MIMO_Ant4_5200

11A-MIMO_Ant1_5240



11A-MIMO_Ant2_5240

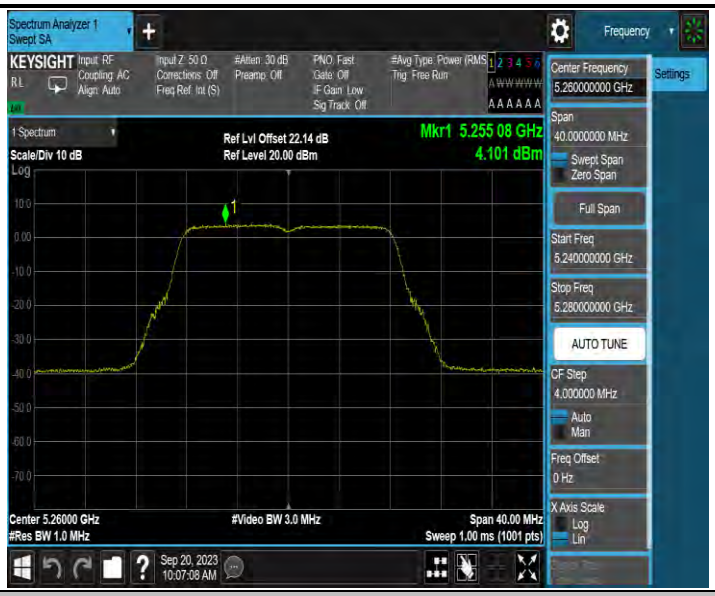
11A-MIMO_Ant3_5240

11A-MIMO_Ant4_5240

11A-MIMO_Ant1_5260

11A-MIMO_Ant2_5260

11A-MIMO_Ant3_5260



11A-MIMO_Ant4_5260

11A-MIMO_Ant1_5300

11A-MIMO_Ant2_5300

11A-MIMO_Ant3_5300

11A-MIMO_Ant4_5300

11A-MIMO_Ant1_5320

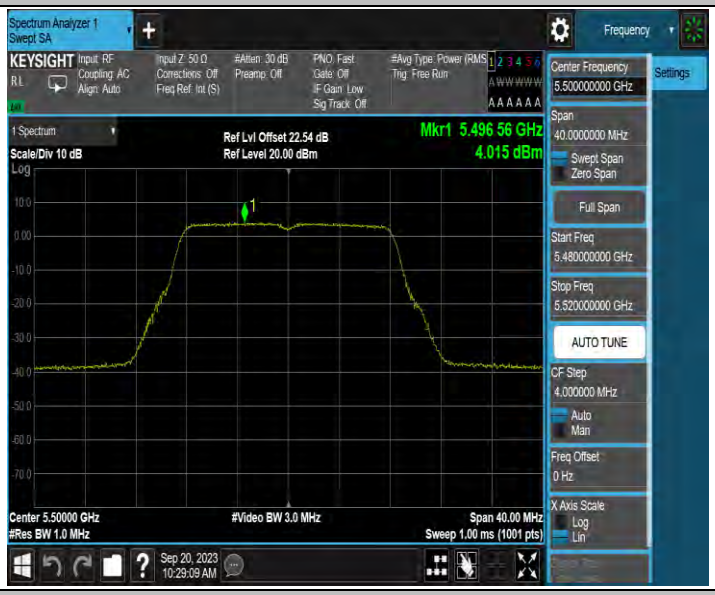
11A-MIMO_Ant2_5320

11A-MIMO_Ant3_5320

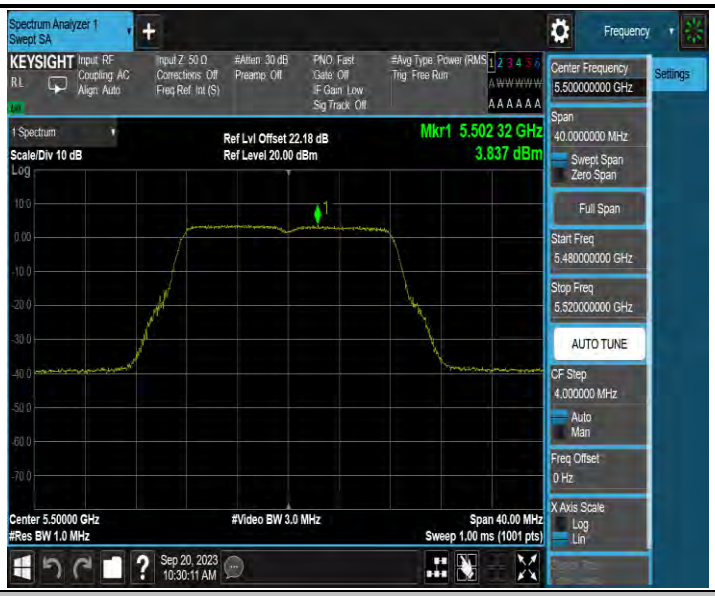
11A-MIMO_Ant4_5320

11A-MIMO_Ant1_5500

11A-MIMO_Ant2_5500

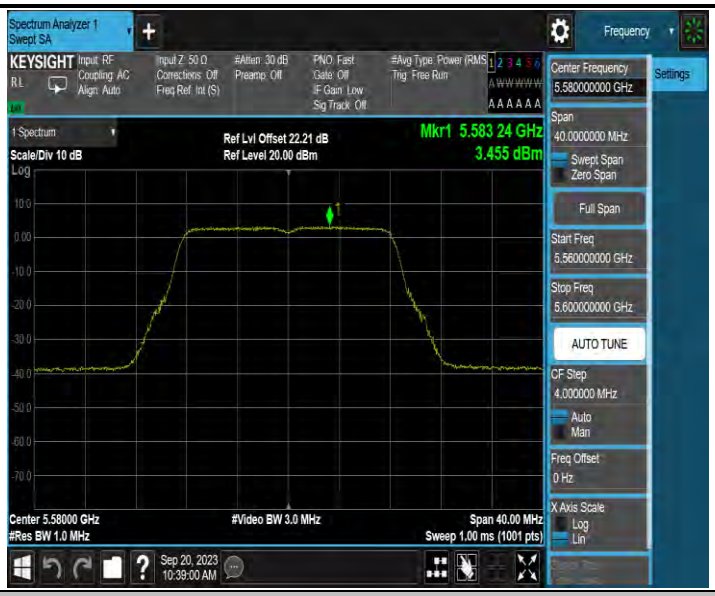


11A-MIMO_Ant3_5500



11A-MIMO_Ant4_5500

11A-MIMO_Ant1_5580



11A-MIMO_Ant2_5580

11A-MIMO_Ant3_5580

11A-MIMO_Ant4_5580

11A-MIMO_Ant1_5700

11A-MIMO_Ant2_5700

11A-MIMO_Ant3_5700

11A-MIMO_Ant4_5700

11A-MIMO_Ant1_5720_UNII-2C