





11BE40MIMO\_Ant1\_5755



11BE40MIMO\_Ant1\_5795



11BE80MIMO\_Ant1\_5775

## 11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

### 11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	17.55	≤30.00	---	18.53	≤22.15	PASS
	Ant1	5200	17.14	≤30.00	---	18.12	≤22.18	PASS
	Ant1	5240	16.99	≤30.00	---	17.97	≤22.13	PASS
	Ant1	5745	19.81	≤30.00	≤30.00	19.85	---	PASS
	Ant1	5785	19.99	≤30.00	≤30.00	20.03	---	PASS
	Ant1	5825	20.19	≤30.00	≤30.00	20.23	---	PASS
11N20MIMO	Ant1	5180	11.76	≤30.00	---	12.74	≤22.43	PASS
	Ant2	5180	10.86	≤30.00	---	11.55	≤22.44	PASS
	total	5180	14.34	≤30.00	---	15.32	≤22.43	PASS
	Ant1	5200	11.52	≤30.00	---	12.50	≤22.44	PASS
	Ant2	5200	11.45	≤30.00	---	12.14	≤22.44	PASS
	total	5200	14.50	≤30.00	---	15.48	≤22.44	PASS
	Ant1	5240	10.84	≤30.00	---	11.82	≤22.42	PASS
	Ant2	5240	11.07	≤30.00	---	11.76	≤22.42	PASS
	total	5240	13.97	≤30.00	---	14.95	≤22.42	PASS
	Ant1	5745	19.77	≤30.00	≤30.00	19.81	---	PASS
	Ant2	5745	18.67	≤30.00	≤30.00	20.23	---	PASS
	total	5745	22.27	≤30.00	≤30.00	23.83	---	PASS
	Ant1	5785	20.09	≤30.00	≤30.00	20.13	---	PASS
	Ant2	5785	18.78	≤30.00	≤30.00	20.34	---	PASS
	total	5785	22.49	≤30.00	≤30.00	24.05	---	PASS
	Ant1	5825	20.18	≤30.00	≤30.00	20.22	---	PASS
	Ant2	5825	18.86	≤30.00	≤30.00	20.42	---	PASS
	total	5825	22.58	≤30.00	≤30.00	24.14	---	PASS
11N40MIMO	Ant1	5190	15.19	≤30.00	---	16.17	≤23.00	PASS
	Ant2	5190	12.69	≤30.00	---	13.38	≤23.00	PASS
	total	5190	17.13	≤30.00	---	18.11	≤23.00	PASS
	Ant1	5230	15.27	≤30.00	---	16.25	≤23.00	PASS
	Ant2	5230	13.56	≤30.00	---	14.25	≤23.00	PASS
	total	5230	17.51	≤30.00	---	18.49	≤23.00	PASS
	Ant1	5755	18.84	≤30.00	≤30.00	18.88	---	PASS
	Ant2	5755	17.92	≤30.00	≤30.00	19.48	---	PASS
	total	5755	21.41	≤30.00	≤30.00	22.97	---	PASS
	Ant1	5795	19.14	≤30.00	≤30.00	19.18	---	PASS
	Ant2	5795	17.75	≤30.00	≤30.00	19.31	---	PASS
	total	5795	21.51	≤30.00	≤30.00	23.07	---	PASS
11AC80MIMO	Ant1	5210	14.54	≤30.00	---	15.52	≤23.00	PASS
	Ant2	5210	13.40	≤30.00	---	14.09	≤23.00	PASS
	total	5210	17.02	≤30.00	---	18.00	≤23.00	PASS
	Ant1	5775	18.18	≤30.00	≤30.00	18.22	---	PASS
	Ant2	5775	16.37	≤30.00	≤30.00	17.93	---	PASS
	total	5775	20.38	≤30.00	≤30.00	21.94	---	PASS
11AX20MIMO	Ant1	5180	12.43	≤30.00	---	13.41	≤22.74	PASS
	Ant2	5180	10.07	≤30.00	---	10.76	≤22.75	PASS
	total	5180	14.42	≤30.00	---	15.40	≤22.74	PASS
	Ant1	5200	12.34	≤30.00	---	13.32	≤22.76	PASS
	Ant2	5200	10.32	≤30.00	---	11.01	≤22.74	PASS
	total	5200	14.46	≤30.00	---	15.44	≤22.74	PASS
	Ant1	5240	12.17	≤30.00	---	12.95	≤22.75	PASS
	Ant2	5240	10.44	≤30.00	---	11.41	≤22.77	PASS
	total	5240	14.40	≤30.00	---	15.37	≤22.75	PASS
	Ant1	5745	19.88	≤30.00	≤30.00	19.92	---	PASS
	Ant2	5745	18.22	≤30.00	≤30.00	19.78	---	PASS
	total	5745	22.14	≤30.00	≤30.00	23.70	---	PASS

	Ant1	5785	20.36	≤30.00	≤30.00	20.40	---	PASS
	Ant2	5785	18.74	≤30.00	≤30.00	20.30	---	PASS
	total	5785	22.64	≤30.00	≤30.00	24.20	---	PASS
	Ant1	5825	20.22	≤30.00	≤30.00	20.26	---	PASS
	Ant2	5825	18.35	≤30.00	≤30.00	19.91	---	PASS
	total	5825	22.40	≤30.00	≤30.00	23.96	---	PASS
11AX40MIMO	Ant1	5190	15.43	≤30.00	---	16.41	≤23.00	PASS
	Ant2	5190	13.06	≤30.00	---	13.75	≤23.00	PASS
	total	5190	17.42	≤30.00	---	18.40	≤23.00	PASS
	Ant1	5230	15.06	≤30.00	---	16.04	≤23.00	PASS
	Ant2	5230	13.69	≤30.00	---	14.38	≤23.00	PASS
	total	5230	17.44	≤30.00	---	18.42	≤23.00	PASS
	Ant1	5755	16.44	≤30.00	≤30.00	16.48	---	PASS
	Ant2	5755	16.06	≤30.00	≤30.00	17.62	---	PASS
	total	5755	19.26	≤30.00	≤30.00	20.82	---	PASS
	Ant1	5795	17.47	≤30.00	≤30.00	17.51	---	PASS
	Ant2	5795	16.86	≤30.00	≤30.00	18.42	---	PASS
	total	5795	20.19	≤30.00	≤30.00	21.75	---	PASS
11AX80MIMO	Ant1	5210	14.65	≤30.00	---	15.63	≤23.00	PASS
	Ant2	5210	13.21	≤30.00	---	13.90	≤23.00	PASS
	total	5210	17.00	≤30.00	---	17.98	≤23.00	PASS
	Ant1	5775	16.52	≤30.00	≤30.00	16.56	---	PASS
	Ant2	5775	16.13	≤30.00	≤30.00	17.69	---	PASS
	total	5775	19.34	≤30.00	≤30.00	20.90	---	PASS
11BE20MIMO	Ant1	5180	12.12	≤30.00	---	13.10	≤22.77	PASS
	Ant2	5180	10.99	≤30.00	---	11.68	≤22.75	PASS
	total	5180	14.60	≤30.00	---	15.58	≤22.75	PASS
	Ant1	5200	12.12	≤30.00	---	13.10	≤22.75	PASS
	Ant2	5200	11.27	≤30.00	---	11.96	≤22.75	PASS
	total	5200	14.73	≤30.00	---	15.71	≤22.75	PASS
	Ant1	5240	11.91	≤30.00	---	12.89	≤22.74	PASS
	Ant2	5240	11.64	≤30.00	---	12.33	≤22.74	PASS
	total	5240	14.79	≤30.00	---	15.77	≤22.74	PASS
	Ant1	5745	18.99	≤30.00	≤30.00	19.03	---	PASS
	Ant2	5745	17.81	≤30.00	≤30.00	19.37	---	PASS
	total	5745	21.45	≤30.00	≤30.00	23.01	---	PASS
	Ant1	5785	19.06	≤30.00	≤30.00	19.10	---	PASS
	Ant2	5785	17.71	≤30.00	≤30.00	19.27	---	PASS
	total	5785	21.45	≤30.00	≤30.00	23.01	---	PASS
	Ant1	5825	19.44	≤30.00	≤30.00	19.48	---	PASS
	Ant2	5825	18.31	≤30.00	≤30.00	19.87	---	PASS
	total	5825	21.92	≤30.00	≤30.00	23.48	---	PASS
11BE40MIMO	Ant1	5190	15.00	≤30.00	---	15.98	≤23.00	PASS
	Ant2	5190	14.03	≤30.00	---	14.72	≤23.00	PASS
	total	5190	17.55	≤30.00	---	18.53	≤23.00	PASS
	Ant1	5230	14.43	≤30.00	---	15.41	≤23.00	PASS
	Ant2	5230	13.73	≤30.00	---	14.42	≤23.00	PASS
	total	5230	17.10	≤30.00	---	18.08	≤23.00	PASS
	Ant1	5755	19.60	≤30.00	≤30.00	19.64	---	PASS
	Ant2	5755	18.06	≤30.00	≤30.00	19.62	---	PASS
	total	5755	21.91	≤30.00	≤30.00	23.47	---	PASS
	Ant1	5795	19.47	≤30.00	≤30.00	19.51	---	PASS
	Ant2	5795	18.47	≤30.00	≤30.00	20.03	---	PASS
	total	5795	22.01	≤30.00	≤30.00	23.57	---	PASS
11BE80MIMO	Ant1	5210	14.17	≤30.00	---	15.15	≤23.00	PASS
	Ant2	5210	12.84	≤30.00	---	13.53	≤23.00	PASS
	total	5210	16.57	≤30.00	---	17.55	≤23.00	PASS
	Ant1	5775	13.42	≤30.00	≤30.00	13.46	---	PASS
	Ant2	5775	12.36	≤30.00	≤30.00	13.92	---	PASS
	total	5775	15.93	≤30.00	≤30.00	17.49	---	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor  
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

### 11.4.2. Test Result-Addition SISO

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11N20SISO	Ant1	5180	17.06	≤23.98	---	18.04	≤22.43	PASS
		5200	17.54	≤23.98	---	18.52	≤22.44	PASS
		5240	16.61	≤23.98	---	17.59	≤22.42	PASS
11N40SISO	Ant1	5190	16.23	≤23.98	---	17.21	≤23.00	PASS
11AX20SISO	Ant1	5180	17.37	≤23.98	---	18.35	≤22.74	PASS
		5200	17.29	≤23.98	---	18.27	≤22.76	PASS
		5240	16.38	≤23.98	---	17.36	≤22.75	PASS
11AX40SISO	Ant1	5190	16.49	≤23.98	---	17.47	≤23.00	PASS
		5230	15.96	≤23.98	---	16.94	≤23.00	PASS
11BE20SISO	Ant1	5180	17.35	≤23.98	---	18.33	≤22.77	PASS
		5200	17.30	≤23.98	---	18.28	≤22.75	PASS
		5240	16.63	≤23.98	---	17.61	≤22.74	PASS
11BE40SISO	Ant1	5190	16.73	≤23.98	---	17.71	≤23.00	PASS
		5230	15.94	≤23.98	---	16.92	≤23.00	PASS
11BE80SISO	Ant1	5775	16.32	≤30.00	≤30.00	16.36	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

3. SISO mode at higher power settings is tested only when the MIMO power setting is lower than expected for SISO.

## 11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

### 11.5.1. Test Result

Test Mode	Antenna	Frequency [MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	7.53	≤17.00	8.51	≤10.00	PASS
	Ant1	5200	8.19	≤17.00	9.17	≤10.00	PASS
	Ant1	5240	7.01	≤17.00	7.99	≤10.00	PASS
	Ant1	5745	7.63	≤30.00	7.67	---	PASS
	Ant1	5785	7.84	≤30.00	7.88	---	PASS
	Ant1	5825	7.79	≤30.00	7.83	---	PASS
11N20MIMO	Ant1	5180	1.15	≤17.00	2.13	≤10.00	PASS
	Ant2	5180	1.00	≤17.00	1.69	≤10.00	PASS
	total	5180	4.09	≤17.00	8.08	≤10.00	PASS
	Ant1	5200	1.66	≤17.00	2.64	≤10.00	PASS
	Ant2	5200	1.39	≤17.00	2.08	≤10.00	PASS
	total	5200	4.54	≤17.00	8.53	≤10.00	PASS
	Ant1	5240	1.02	≤17.00	2.00	≤10.00	PASS
	Ant2	5240	0.85	≤17.00	1.54	≤10.00	PASS
	total	5240	3.95	≤17.00	7.94	≤10.00	PASS
	Ant1	5745	7.10	≤30.00	7.14	---	PASS
	Ant2	5745	6.18	≤30.00	7.74	---	PASS
	total	5745	9.67	≤30.00	14.24	---	PASS
	Ant1	5785	6.95	≤30.00	6.99	---	PASS
	Ant2	5785	5.72	≤30.00	7.28	---	PASS
	total	5785	9.39	≤30.00	13.96	---	PASS
	Ant1	5825	7.32	≤30.00	7.36	---	PASS
	Ant2	5825	5.59	≤30.00	7.15	---	PASS
	total	5825	9.55	≤30.00	14.12	---	PASS
11N40MIMO	Ant1	5190	2.36	≤17.00	3.34	≤10.00	PASS
	Ant2	5190	-0.21	≤17.00	0.48	≤10.00	PASS
	total	5190	4.27	≤17.00	8.26	≤10.00	PASS
	Ant1	5230	2.25	≤17.00	3.23	≤10.00	PASS
	Ant2	5230	1.03	≤17.00	1.72	≤10.00	PASS
	total	5230	4.69	≤17.00	8.68	≤10.00	PASS
	Ant1	5755	3.16	≤30.00	3.20	---	PASS
	Ant2	5755	2.19	≤30.00	3.75	---	PASS
	total	5755	5.71	≤30.00	10.28	---	PASS
	Ant1	5795	3.77	≤30.00	3.81	---	PASS
	Ant2	5795	2.13	≤30.00	3.69	---	PASS
	total	5795	6.04	≤30.00	10.61	---	PASS
11AC80MIMO	Ant1	5210	-1.19	≤17.00	-0.21	≤10.00	PASS
	Ant2	5210	-2.20	≤17.00	-1.51	≤10.00	PASS
	total	5210	1.34	≤17.00	5.33	≤10.00	PASS
	Ant1	5775	0.02	≤30.00	0.06	---	PASS
	Ant2	5775	-1.81	≤30.00	-0.25	---	PASS
	total	5775	2.21	≤30.00	6.78	---	PASS
11AX20MIMO	Ant1	5180	2.59	≤17.00	3.57	≤10.00	PASS
	Ant2	5180	-0.14	≤17.00	0.55	≤10.00	PASS
	total	5180	4.45	≤17.00	8.44	≤10.00	PASS
	Ant1	5200	2.34	≤17.00	3.32	---	PASS
	Ant2	5200	0.05	≤17.00	0.74	---	PASS
	total	5200	4.35	≤17.00	8.34	---	PASS
	Ant1	5240	2.41	≤17.00	3.19	---	PASS
	Ant2	5240	0.79	≤17.00	1.76	---	PASS
	total	5240	4.69	≤17.00	8.67	---	PASS
	Ant1	5745	6.82	≤30.00	6.86	---	PASS
	Ant2	5745	5.80	≤30.00	7.36	---	PASS
	total	5745	9.35	≤30.00	13.92	---	PASS
	Ant1	5785	7.52	≤30.00	7.56	---	PASS



	Ant2	5785	5.76	≤30.00	7.32	---	PASS
	total	5785	9.74	≤30.00	14.31	---	PASS
	Ant1	5825	7.39	≤30.00	7.43	---	PASS
	Ant2	5825	6.08	≤30.00	7.64	---	PASS
	total	5825	9.79	≤30.00	14.36	---	PASS
11AX40MIMO	Ant1	5190	2.52	≤17.00	3.50	≤10.00	PASS
	Ant2	5190	0.81	≤17.00	1.50	≤10.00	PASS
	total	5190	4.76	≤17.00	8.75	≤10.00	PASS
	Ant1	5230	2.44	≤17.00	3.42	≤10.00	PASS
	Ant2	5230	0.68	≤17.00	1.37	≤10.00	PASS
	total	5230	4.66	≤17.00	8.65	≤10.00	PASS
	Ant1	5755	0.69	≤30.00	0.73	---	PASS
	Ant2	5755	0.66	≤30.00	2.22	---	PASS
	total	5755	3.69	≤30.00	8.26	---	PASS
	Ant1	5795	1.68	≤30.00	1.72	---	PASS
	Ant2	5795	1.44	≤30.00	3.00	---	PASS
	total	5795	4.57	≤30.00	9.14	---	PASS
11AX80MIMO	Ant1	5210	-1.11	≤17.00	-0.13	≤10.00	PASS
	Ant2	5210	-2.64	≤17.00	-1.95	≤10.00	PASS
	total	5210	1.20	≤17.00	5.19	≤10.00	PASS
	Ant1	5775	-1.94	≤30.00	-1.90	---	PASS
	Ant2	5775	-2.78	≤30.00	-1.22	---	PASS
	total	5775	0.67	≤30.00	5.24	---	PASS
11BE20MIMO	Ant1	5180	2.07	≤17.00	3.05	≤10.00	PASS
	Ant2	5180	1.26	≤17.00	1.95	≤10.00	PASS
	total	5180	4.69	≤17.00	8.68	≤10.00	PASS
	Ant1	5200	2.28	≤17.00	3.26	≤10.00	PASS
	Ant2	5200	1.18	≤17.00	1.87	≤10.00	PASS
	total	5200	4.78	≤17.00	8.77	≤10.00	PASS
	Ant1	5240	1.99	≤17.00	2.97	≤10.00	PASS
	Ant2	5240	1.34	≤17.00	2.03	≤10.00	PASS
	total	5240	4.69	≤17.00	8.68	≤10.00	PASS
	Ant1	5745	6.16	≤30.00	6.20	---	PASS
	Ant2	5745	4.16	≤30.00	5.72	---	PASS
	total	5745	8.28	≤30.00	12.85	---	PASS
	Ant1	5785	6.16	≤30.00	6.20	---	PASS
	Ant2	5785	5.40	≤30.00	6.96	---	PASS
	total	5785	8.81	≤30.00	13.38	---	PASS
	Ant1	5825	6.34	≤30.00	6.38	---	PASS
	Ant2	5825	5.17	≤30.00	6.73	---	PASS
	total	5825	8.80	≤30.00	13.37	---	PASS
11BE40MIMO	Ant1	5190	2.34	≤17.00	3.32	≤10.00	PASS
	Ant2	5190	0.92	≤17.00	1.61	≤10.00	PASS
	total	5190	4.70	≤17.00	8.69	≤10.00	PASS
	Ant1	5230	1.65	≤17.00	2.63	≤10.00	PASS
	Ant2	5230	1.30	≤17.00	1.99	≤10.00	PASS
	total	5230	4.49	≤17.00	8.48	≤10.00	PASS
	Ant1	5755	4.38	≤30.00	4.42	---	PASS
	Ant2	5755	2.56	≤30.00	4.12	---	PASS
	total	5755	6.57	≤30.00	11.14	---	PASS
	Ant1	5795	3.07	≤30.00	3.11	---	PASS
	Ant2	5795	2.73	≤30.00	4.29	---	PASS
	total	5795	5.91	≤30.00	10.48	---	PASS
11BE80MIMO	Ant1	5210	-1.70	≤17.00	-0.72	≤10.00	PASS
	Ant2	5210	-3.39	≤17.00	-2.70	≤10.00	PASS
	total	5210	0.55	≤17.00	4.54	≤10.00	PASS
	Ant1	5775	-4.75	≤30.00	-4.71	---	PASS
	Ant2	5775	-5.37	≤30.00	-3.81	---	PASS
	total	5775	-2.04	≤30.00	2.53	---	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.



2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. Because the test equipment does not support setting RBW to 500KHz, the test chose to use the closest setting RBW 510KHz, VBW 1.5MHz. Although 3xRBW was not used, there was no difference in the test results after comparing with other equipment.

## 11.5.2. Test Graphs









































