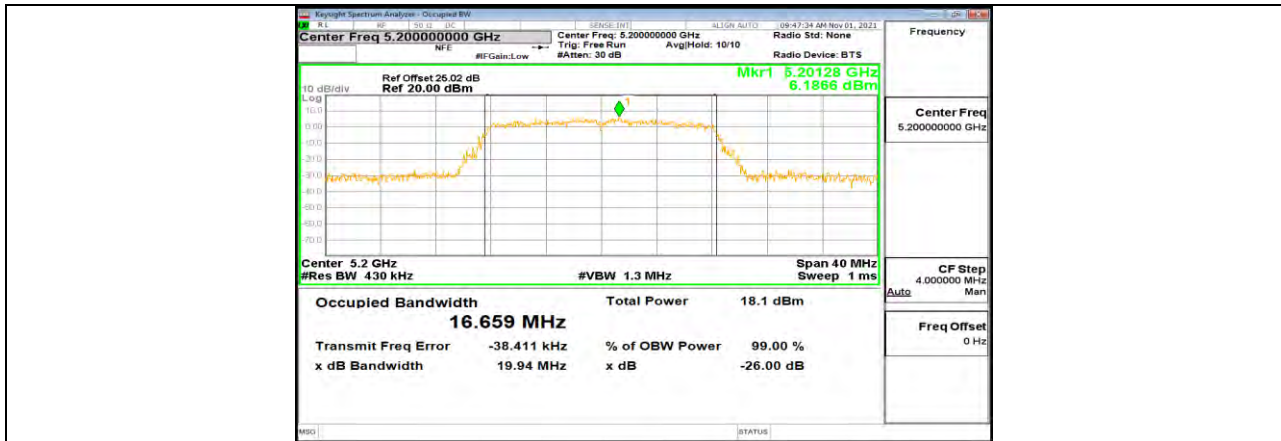
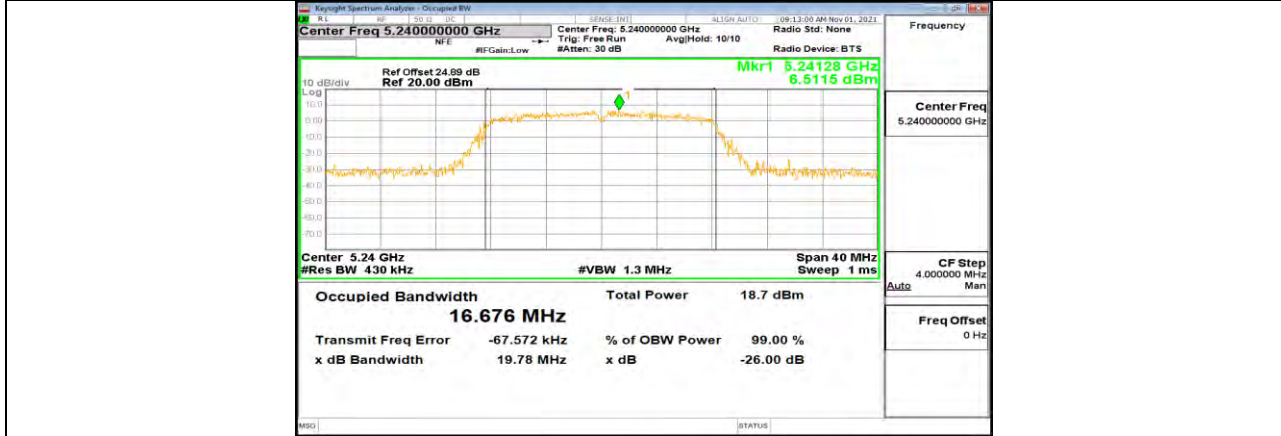


12.2.2. Test Graphs

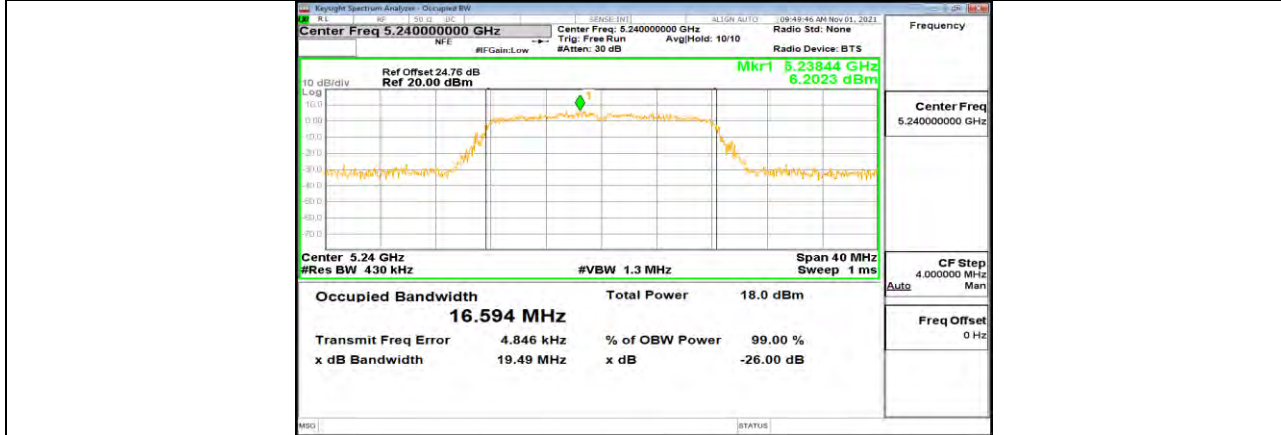




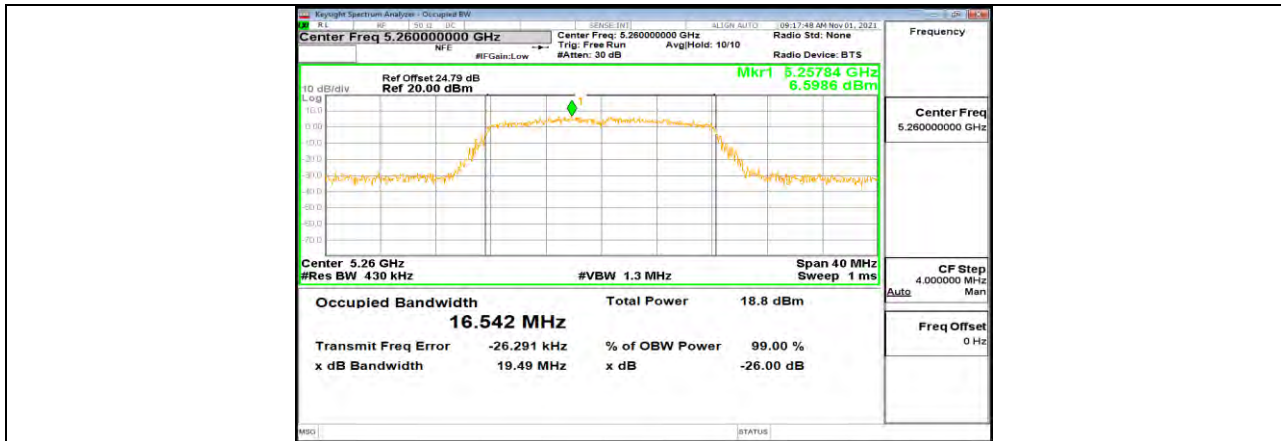
11A Ant2 5200



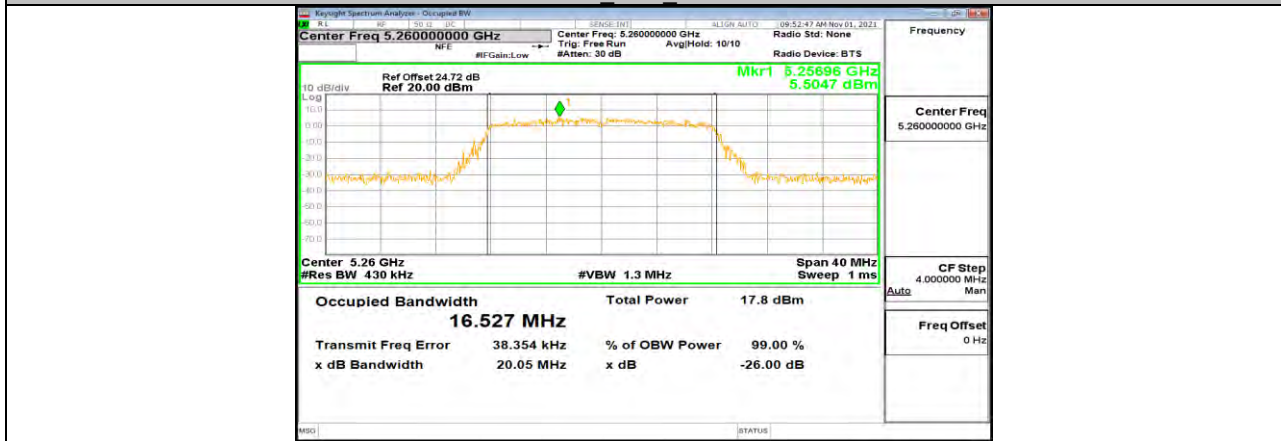
11A Ant1 5240



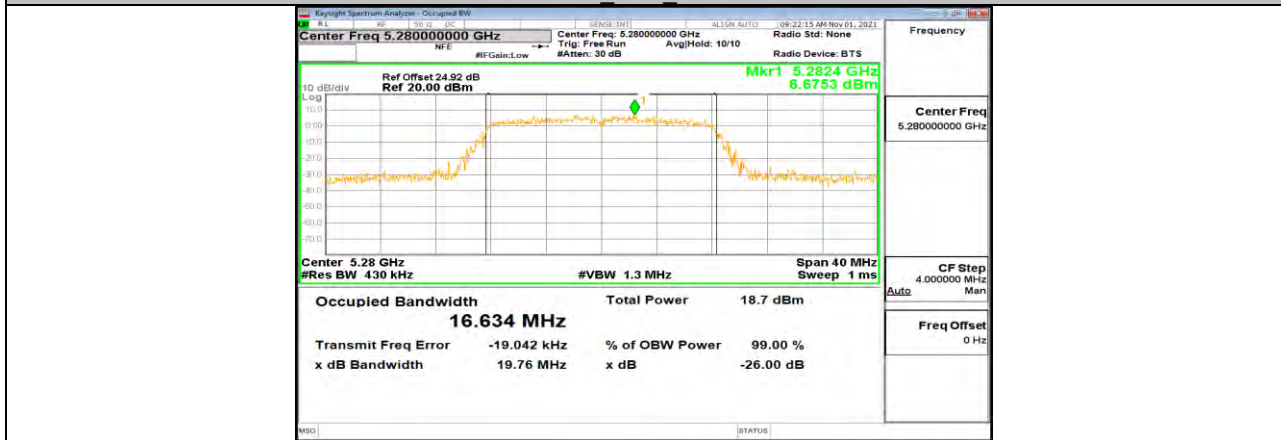
11A Ant2 5240



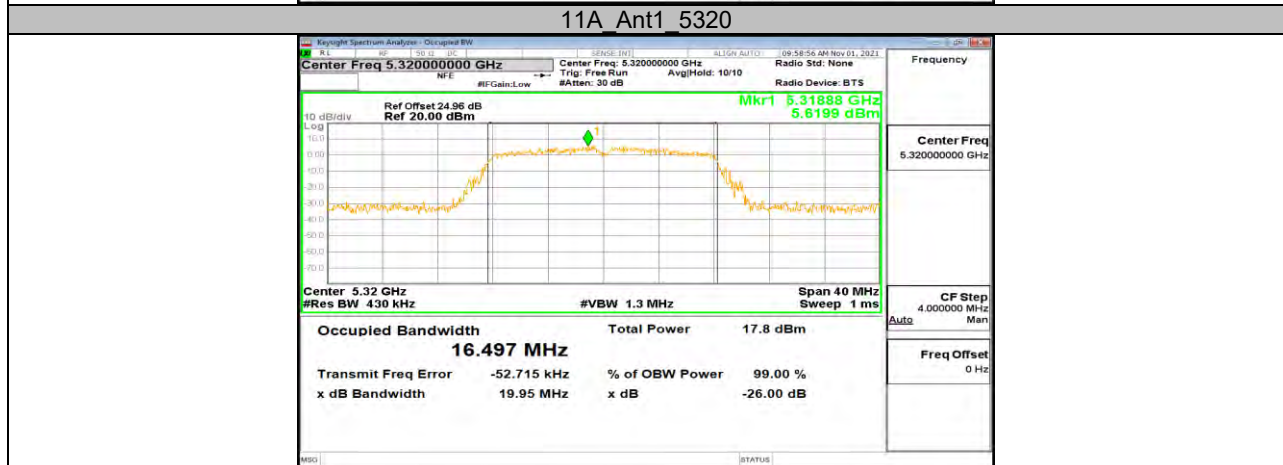
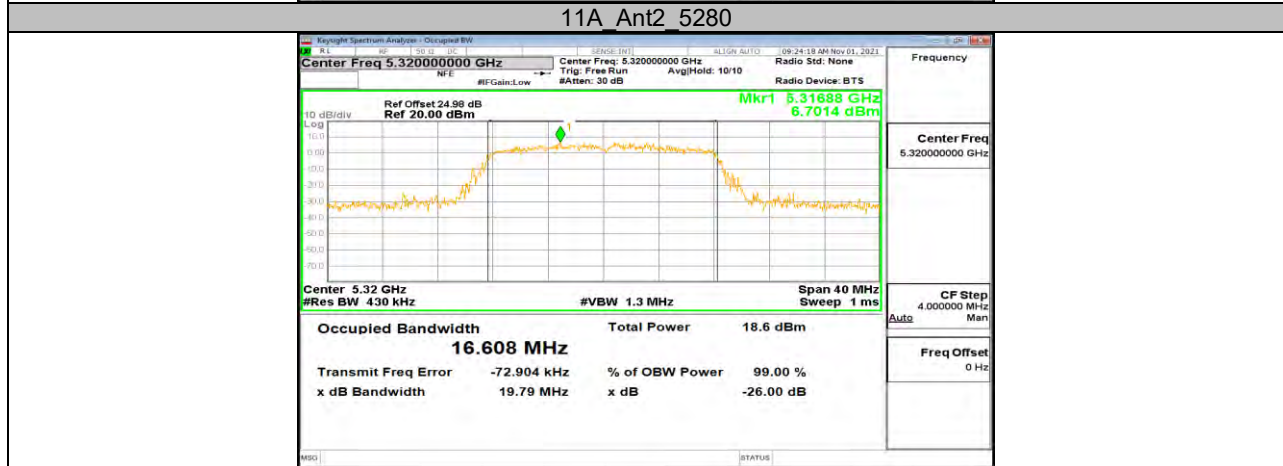
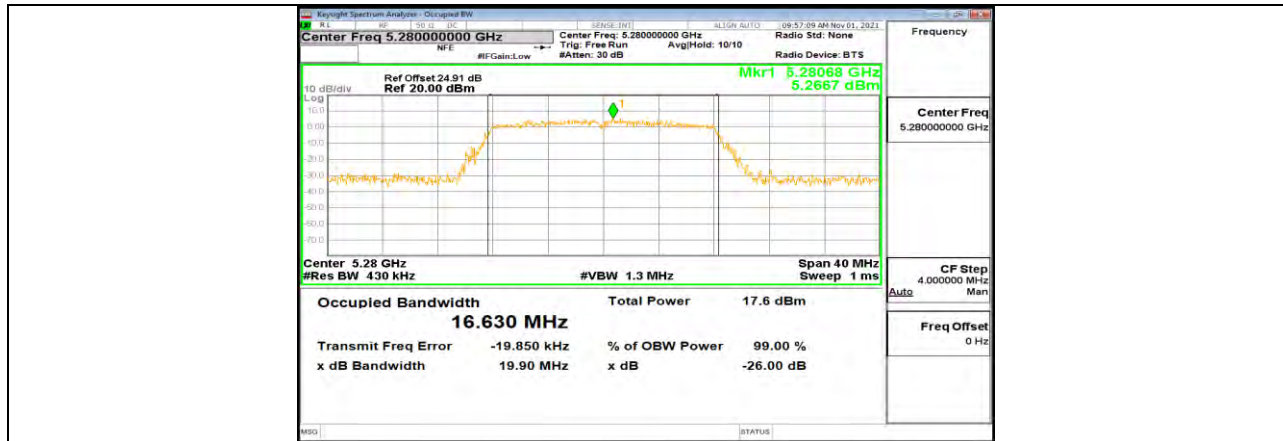
11A Ant1 5260

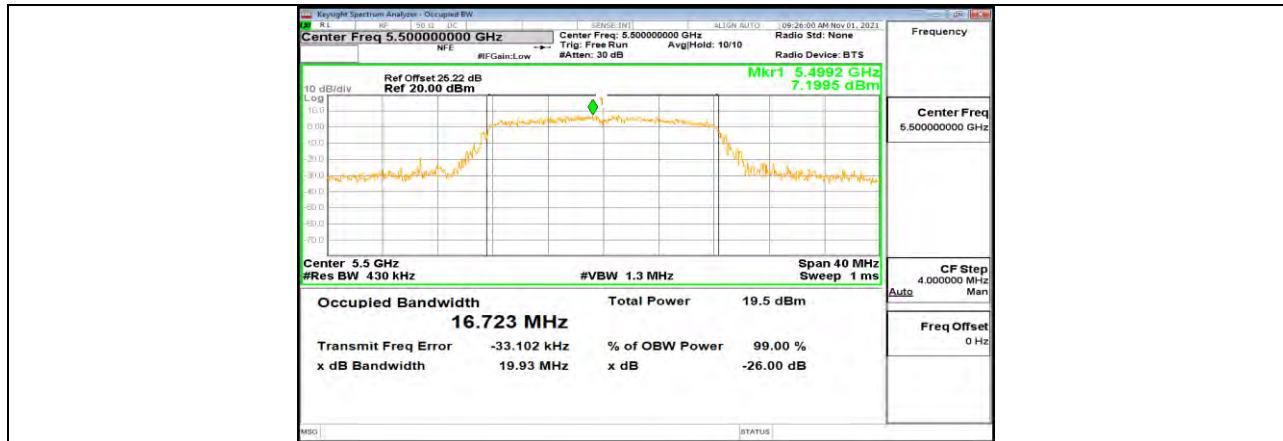


11A Ant2 5260

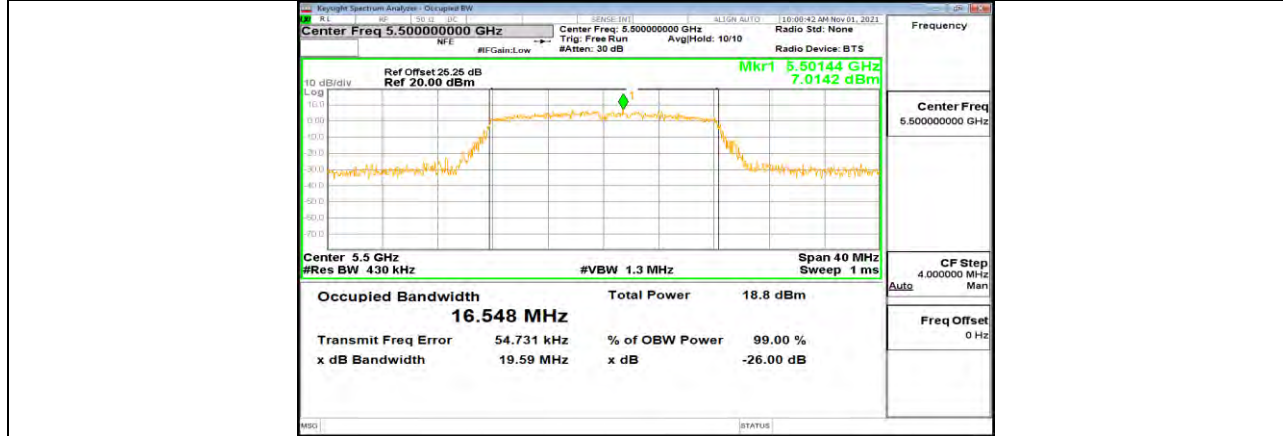


11A Ant1 5280

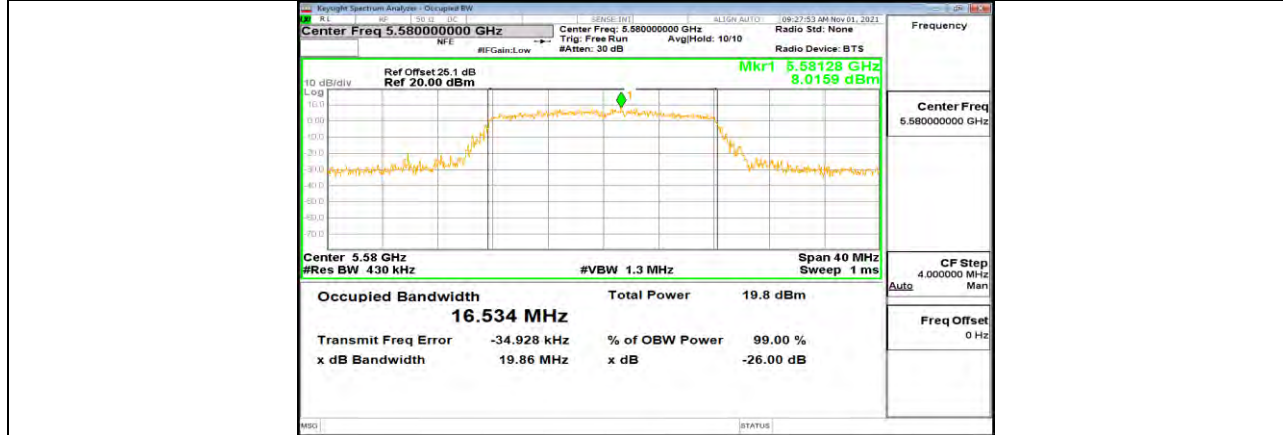




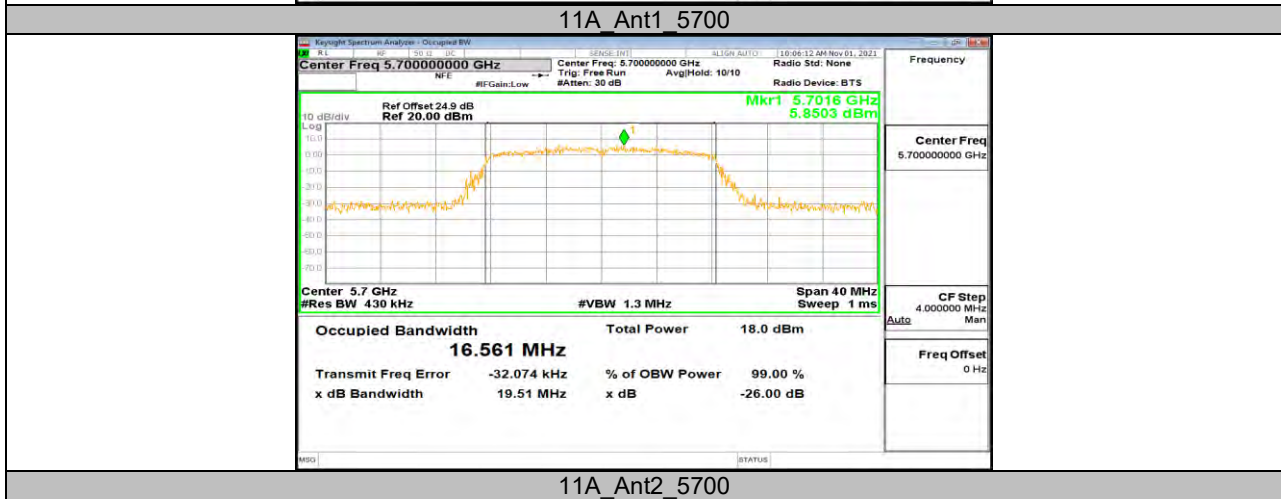
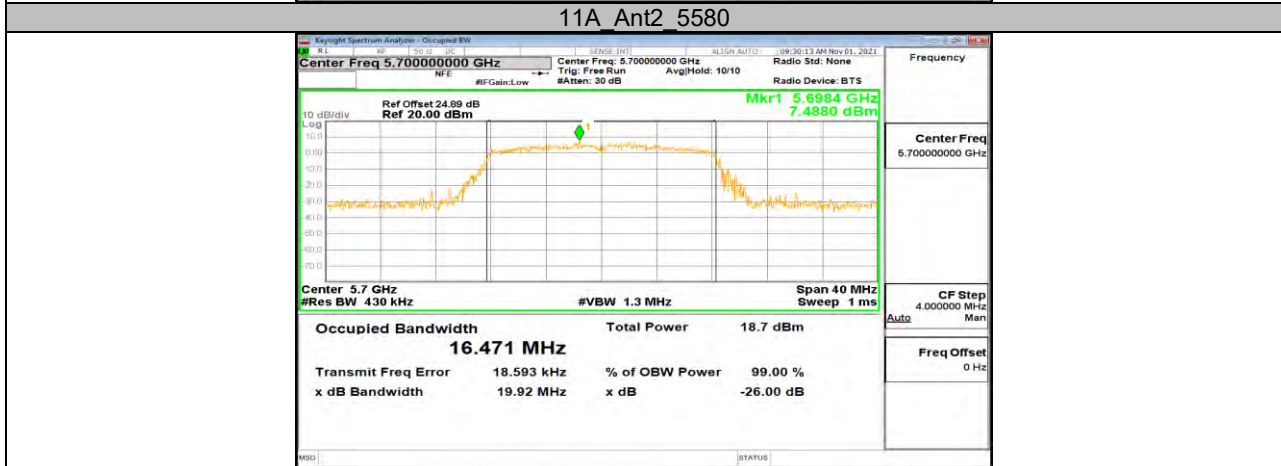
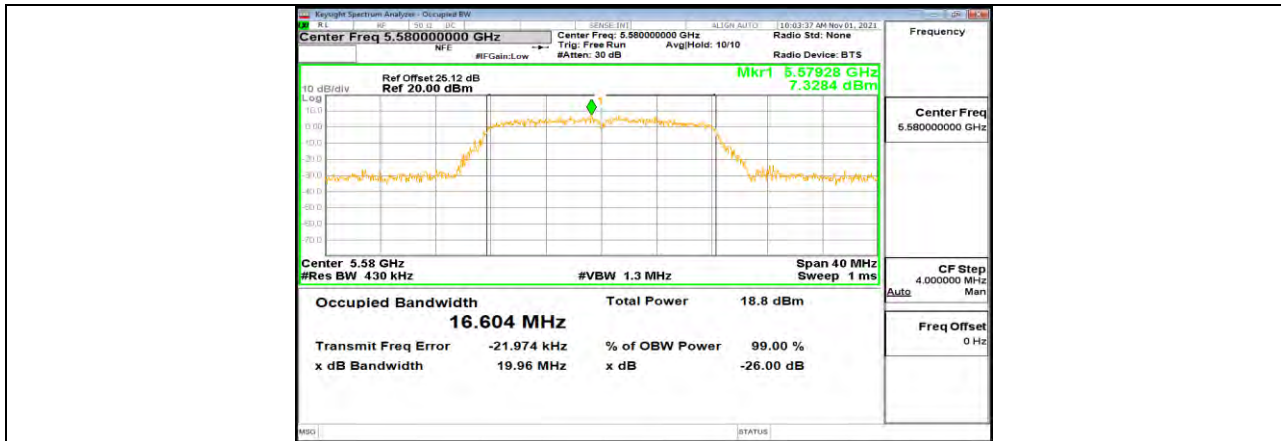
11A Ant1 5500

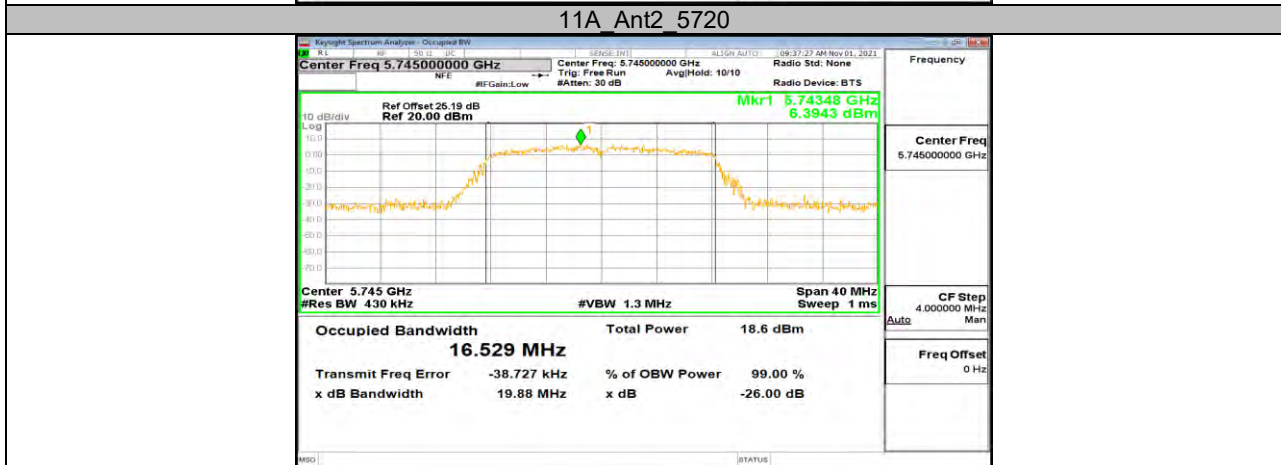
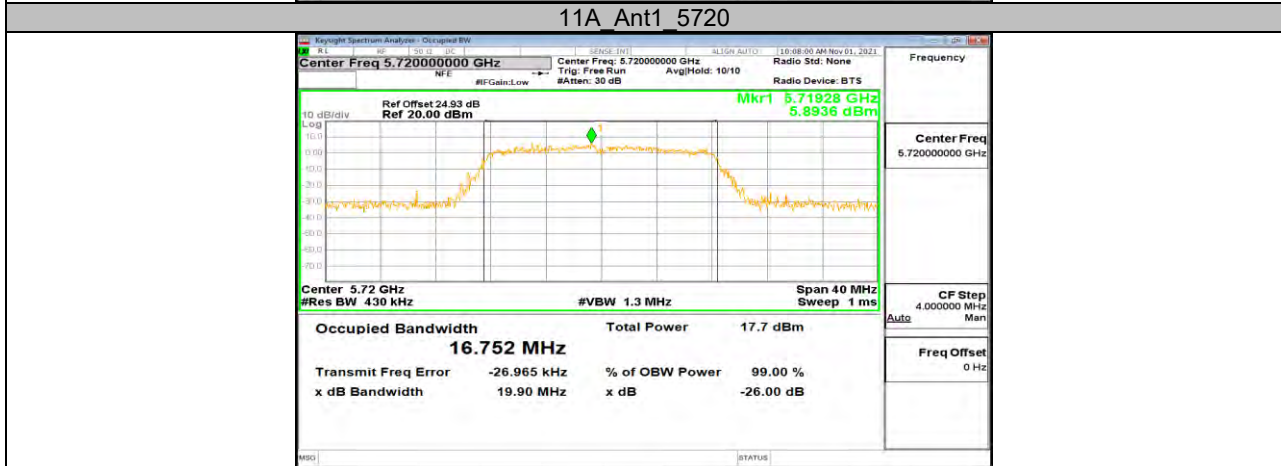
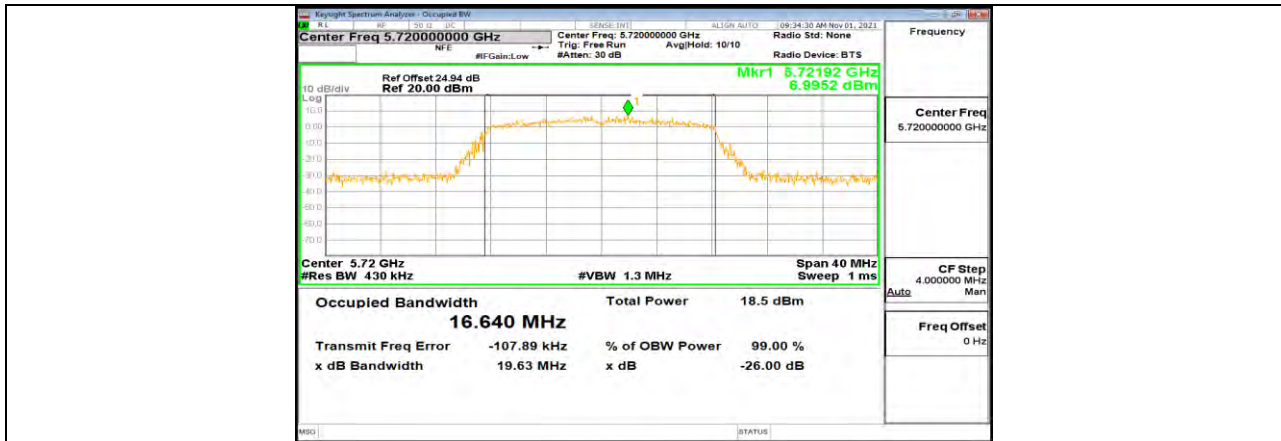


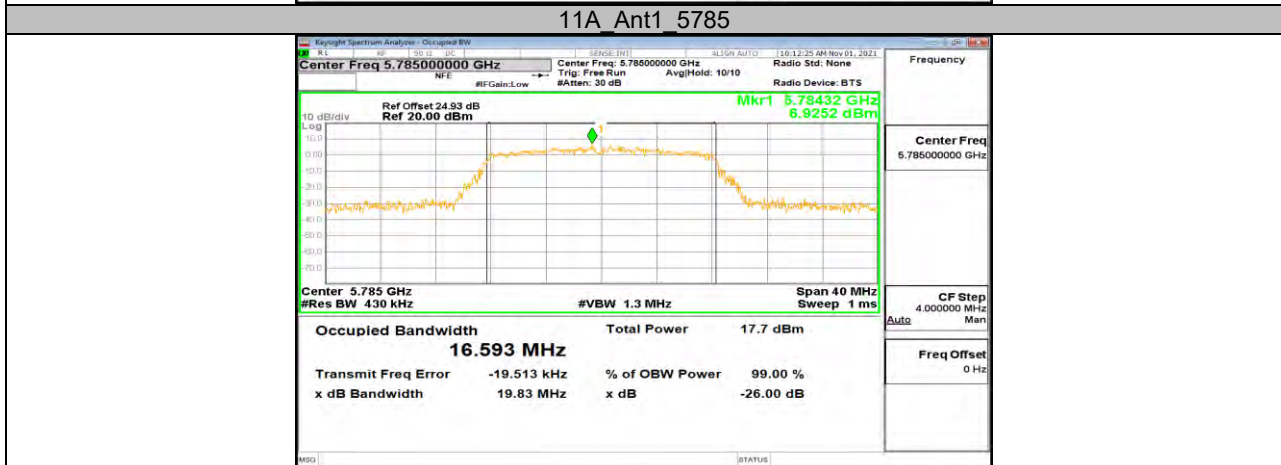
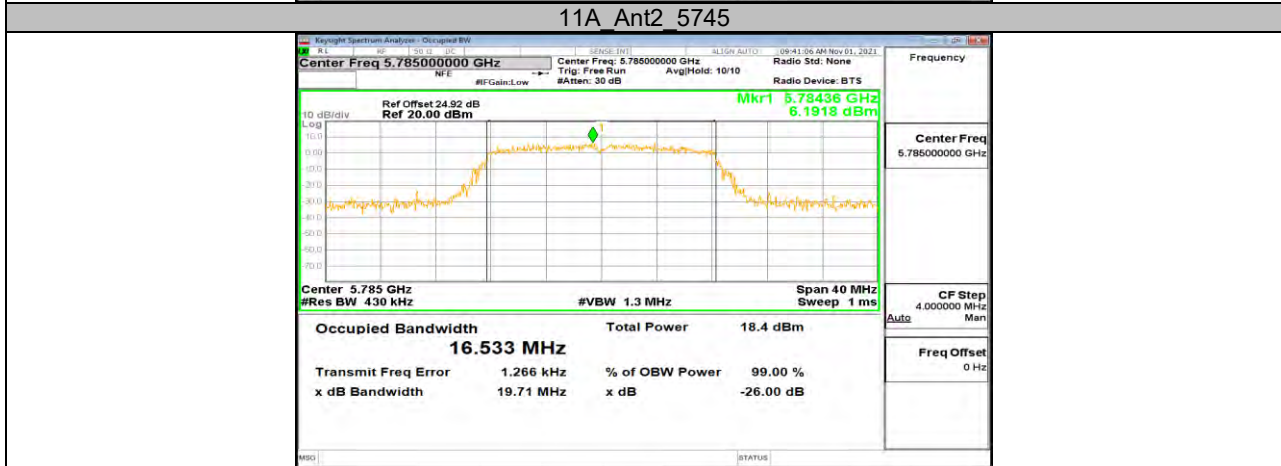
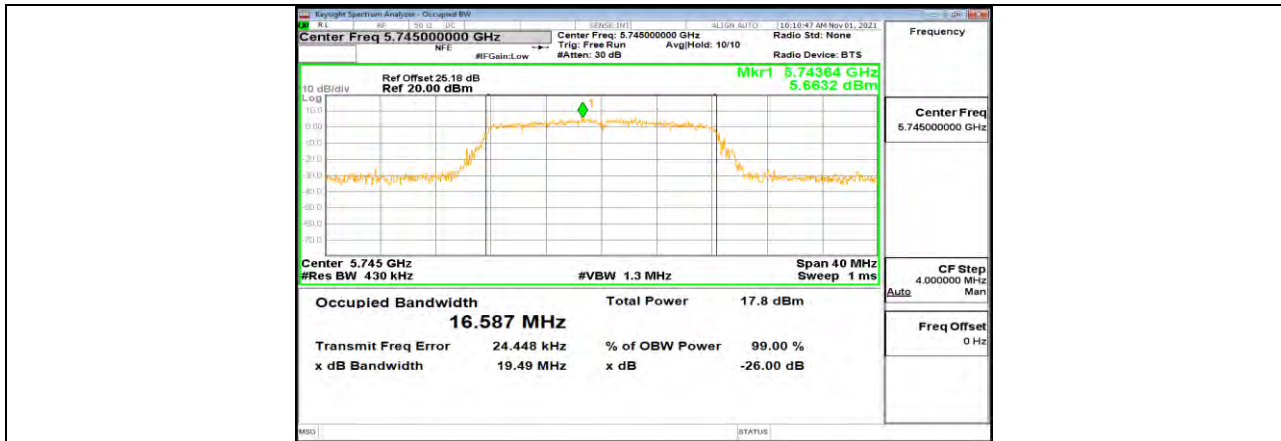
11A Ant2 5500

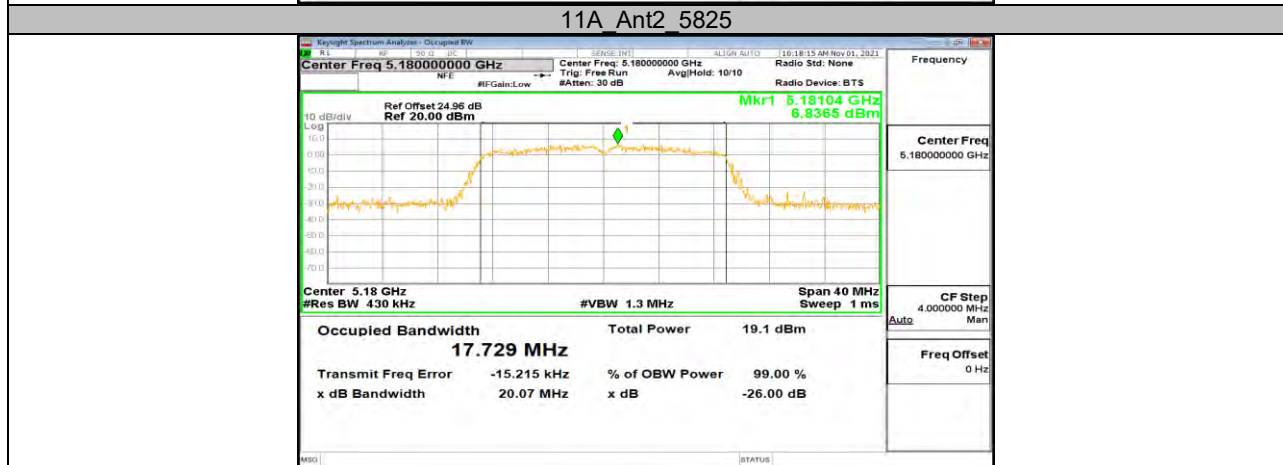
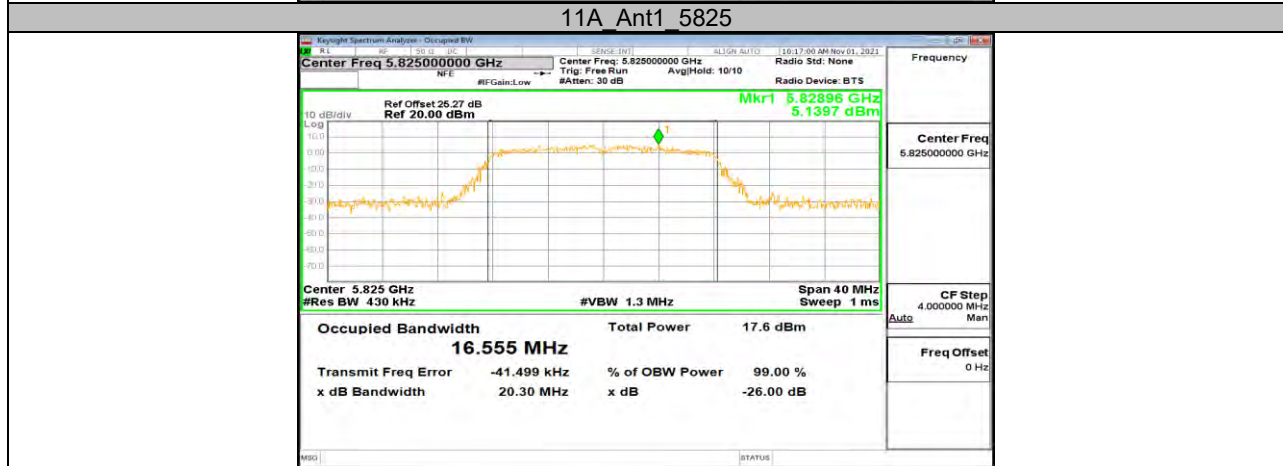
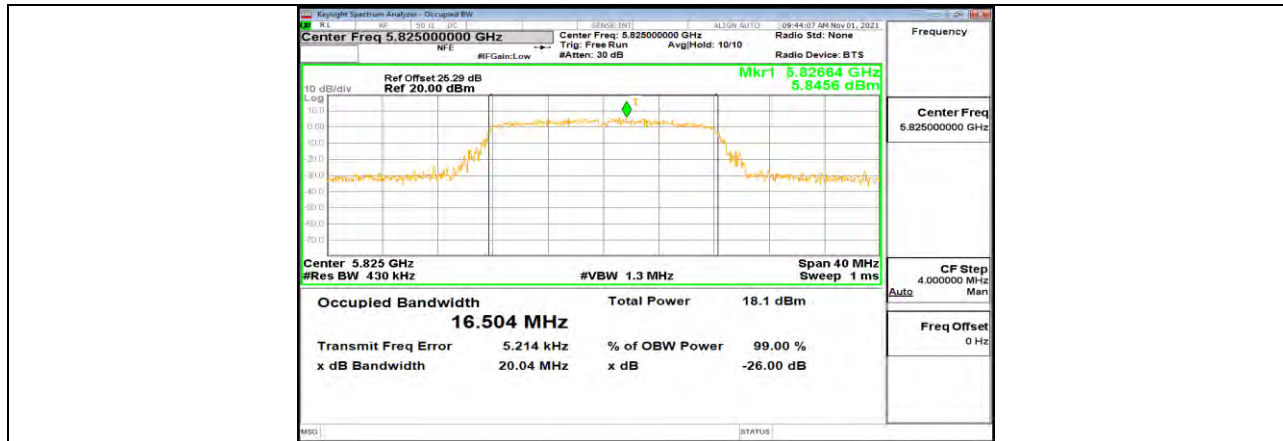


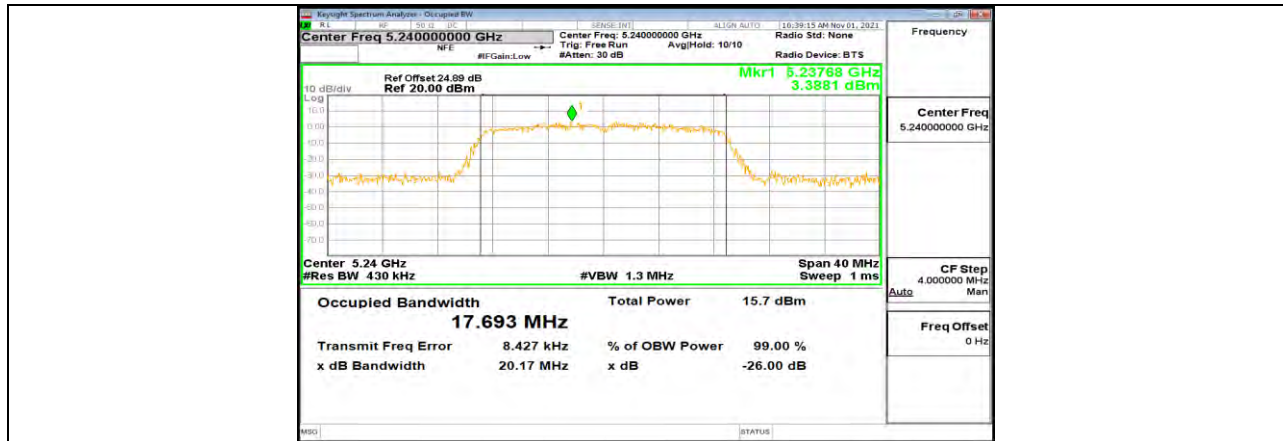
11A Ant1 5580



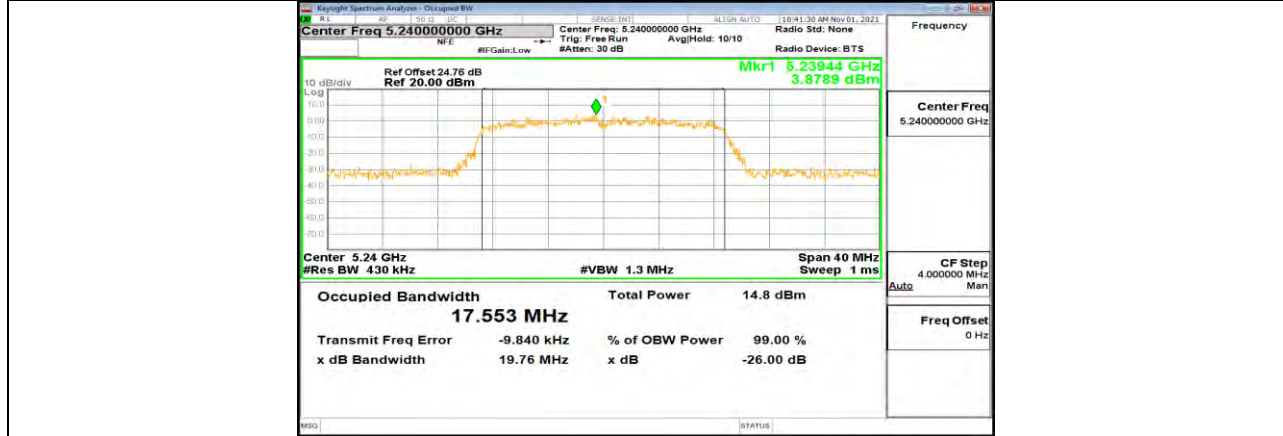




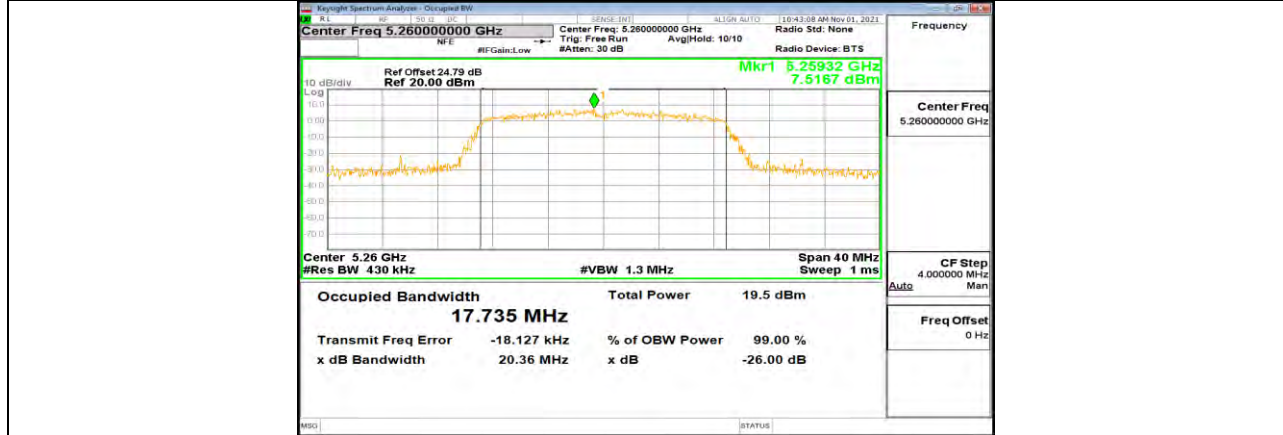




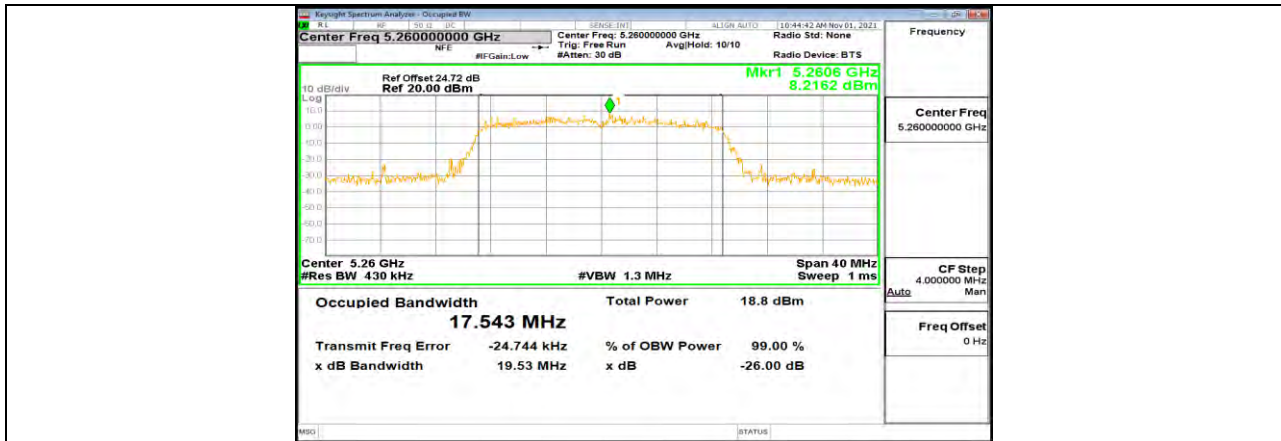
11N20MIMO Ant1 5240



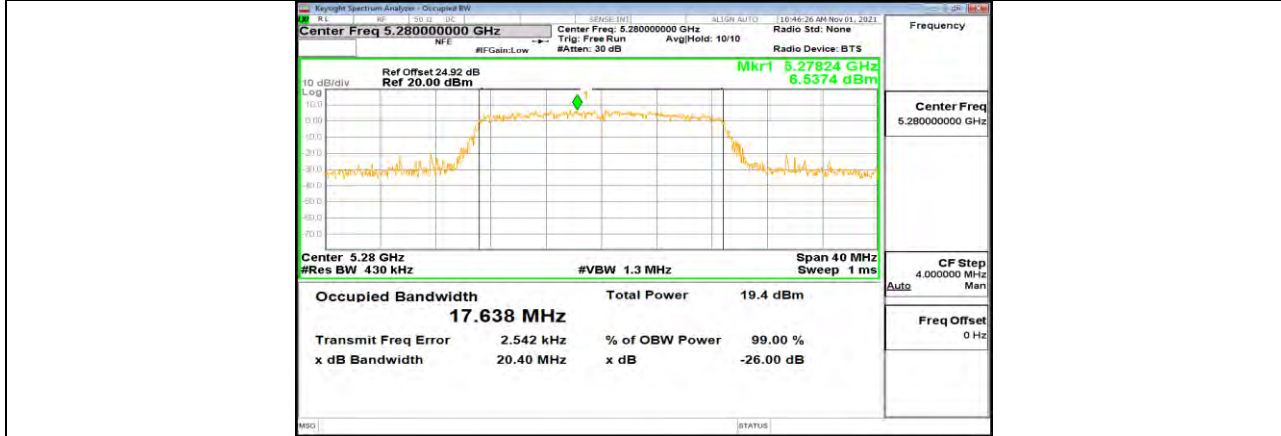
11N20MIMO Ant2 5240



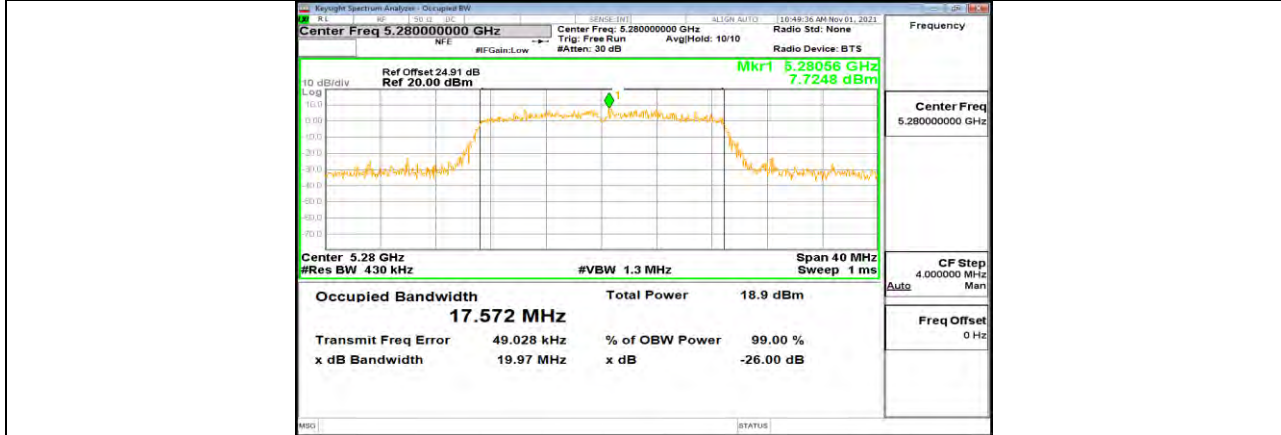
11N20MIMO Ant1 5260



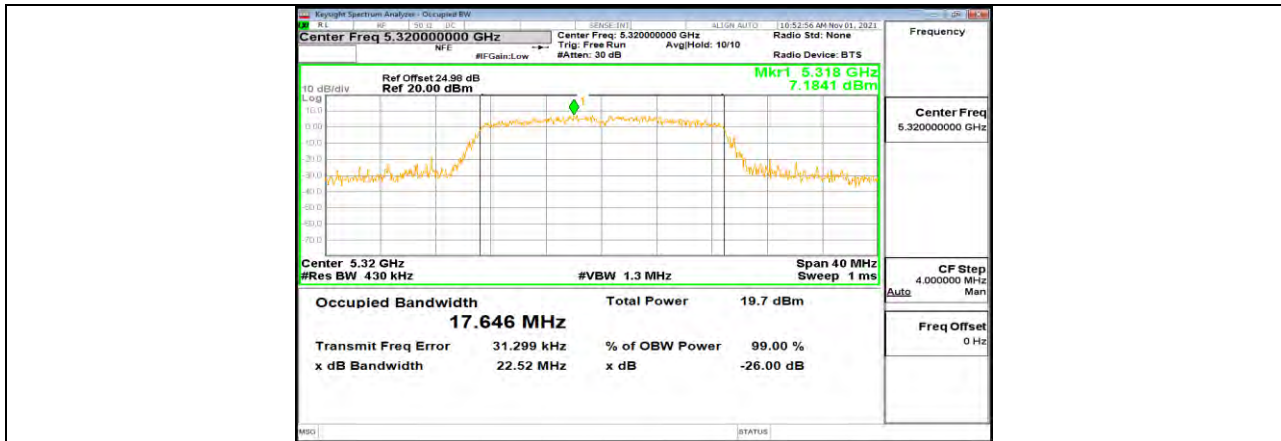
11N20MIMO Ant2 5260



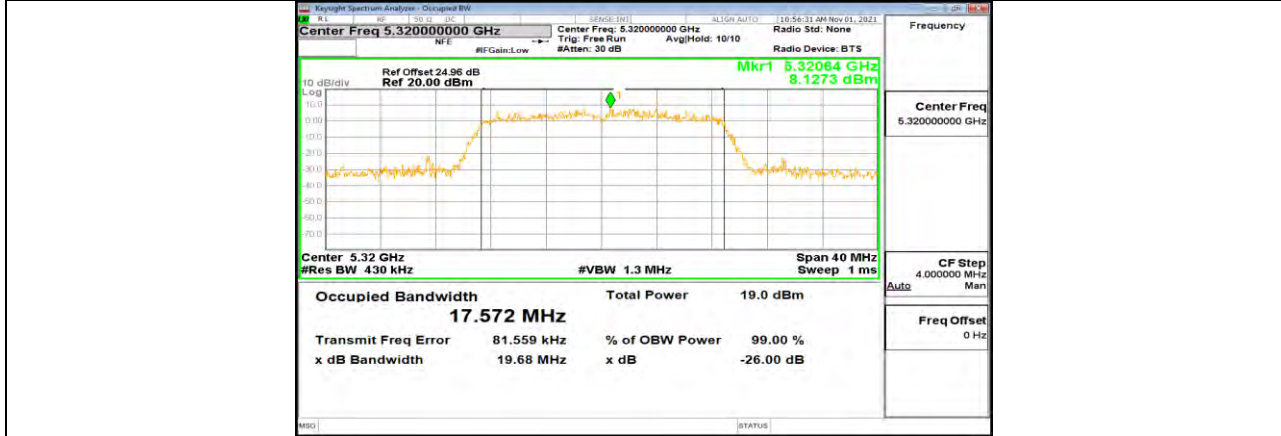
11N20MIMO Ant1 5280



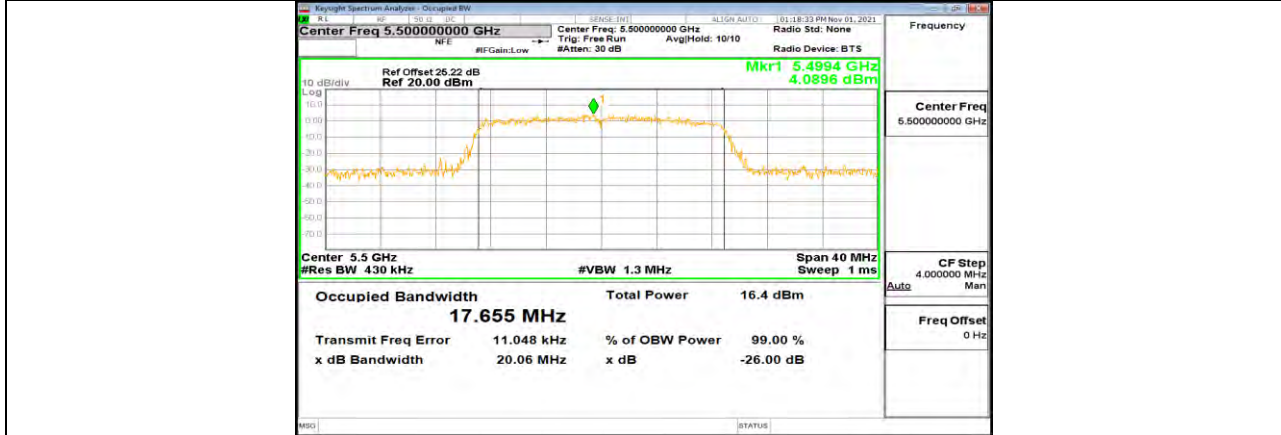
11N20MIMO Ant2 5280



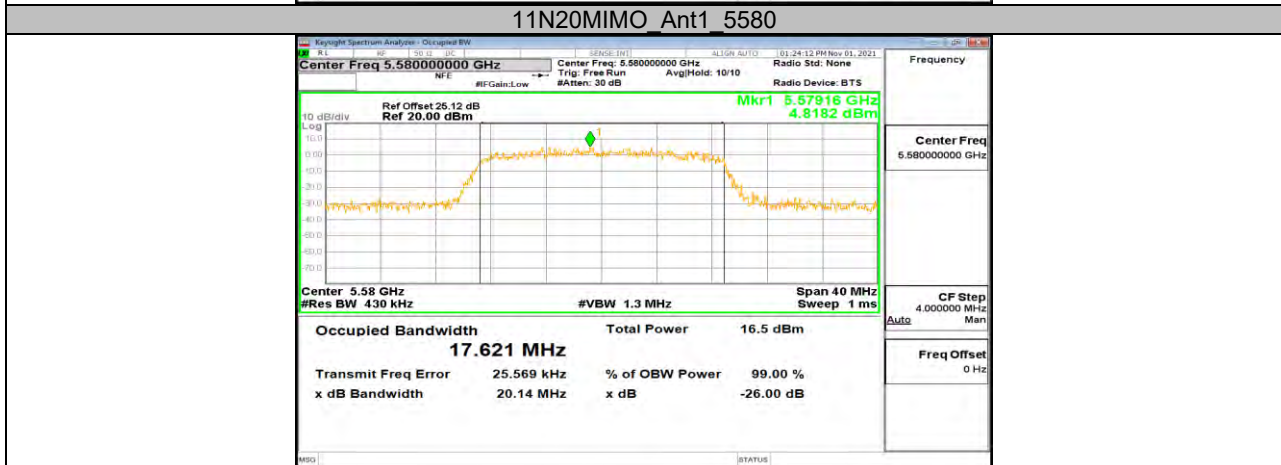
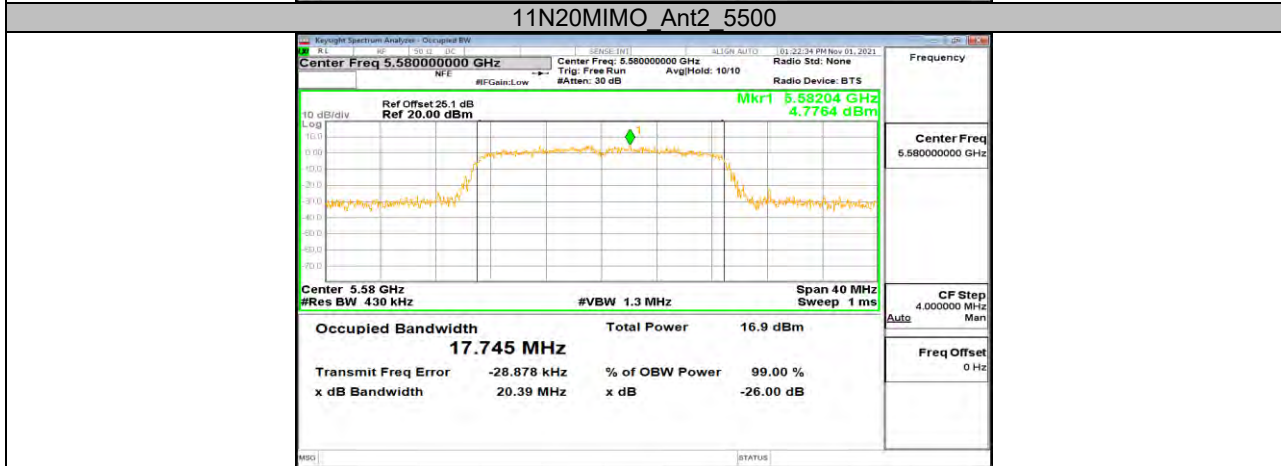
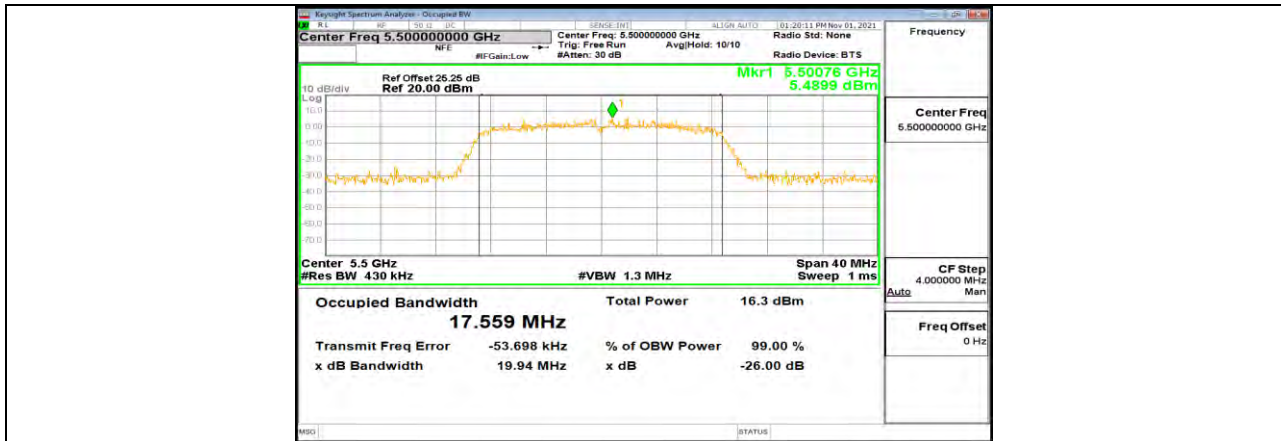
11N20MIMO Ant1 5320

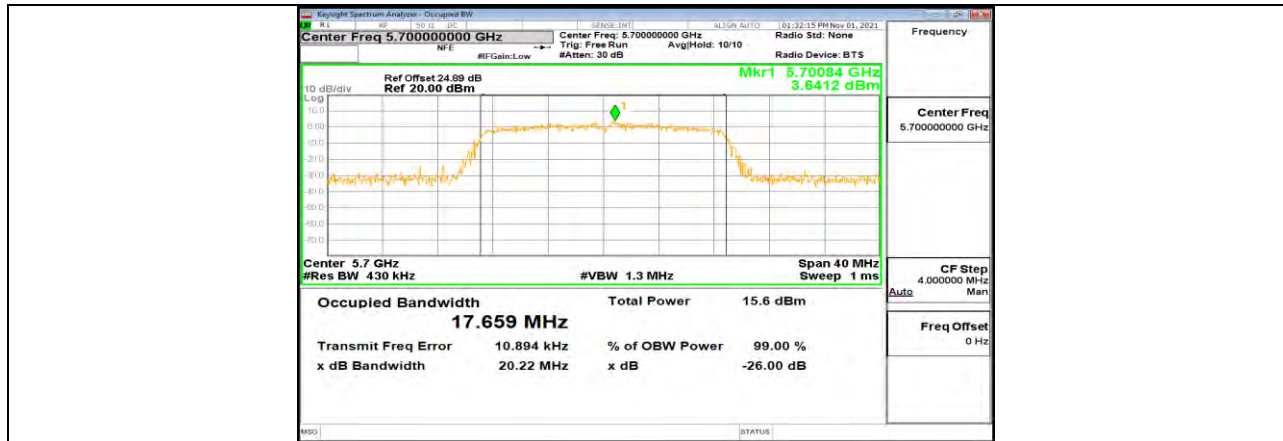


11N20MIMO Ant2 5320

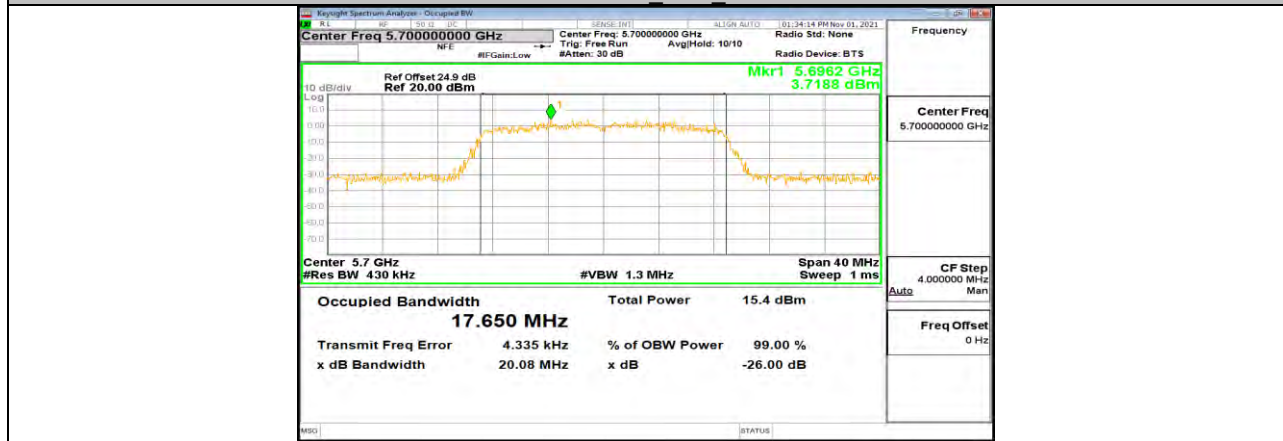


11N20MIMO Ant1 5500

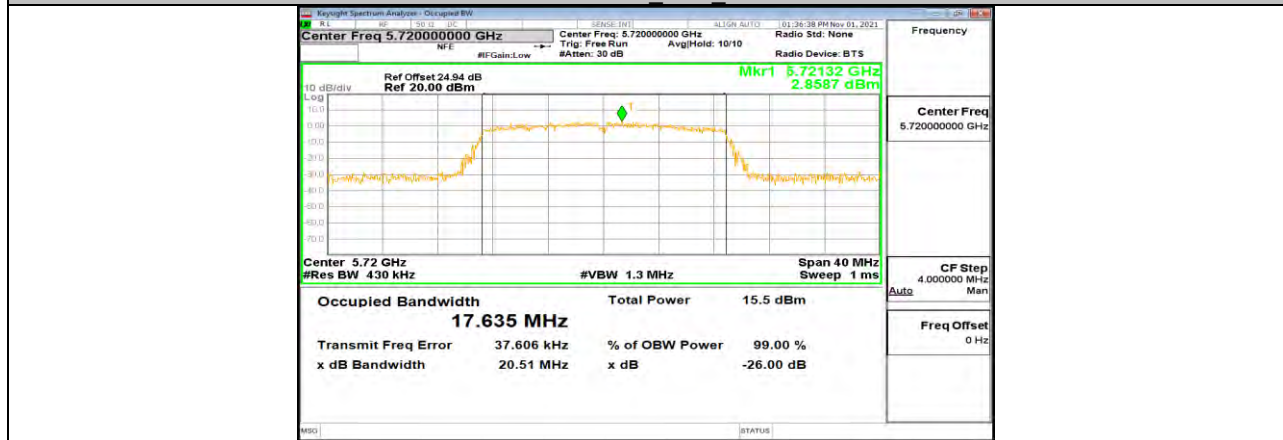




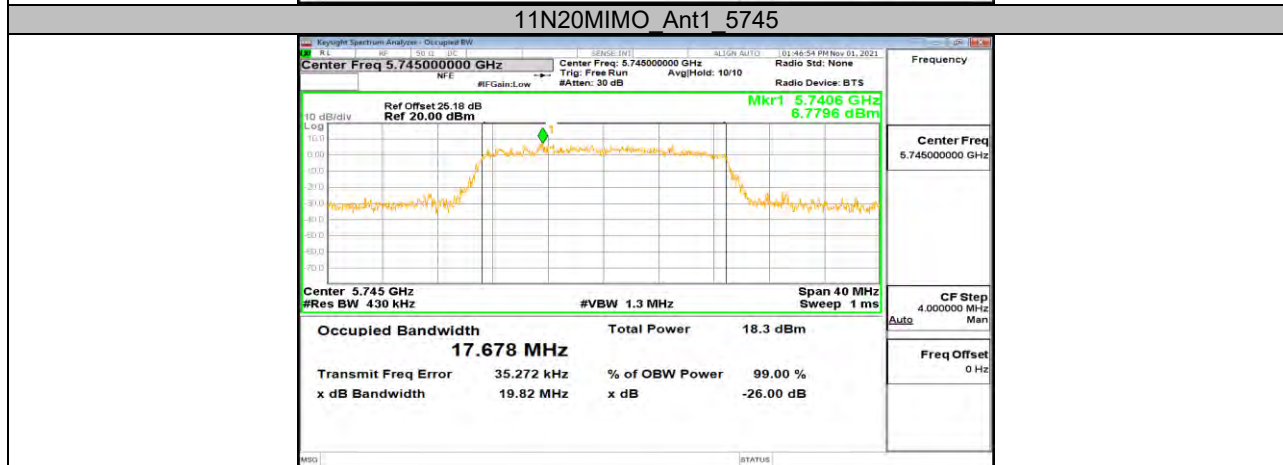
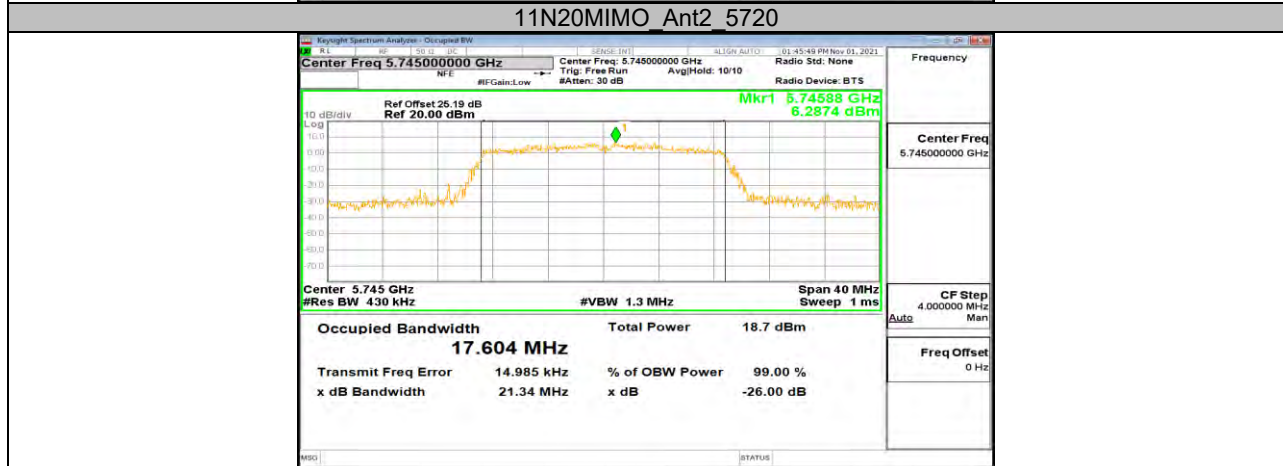
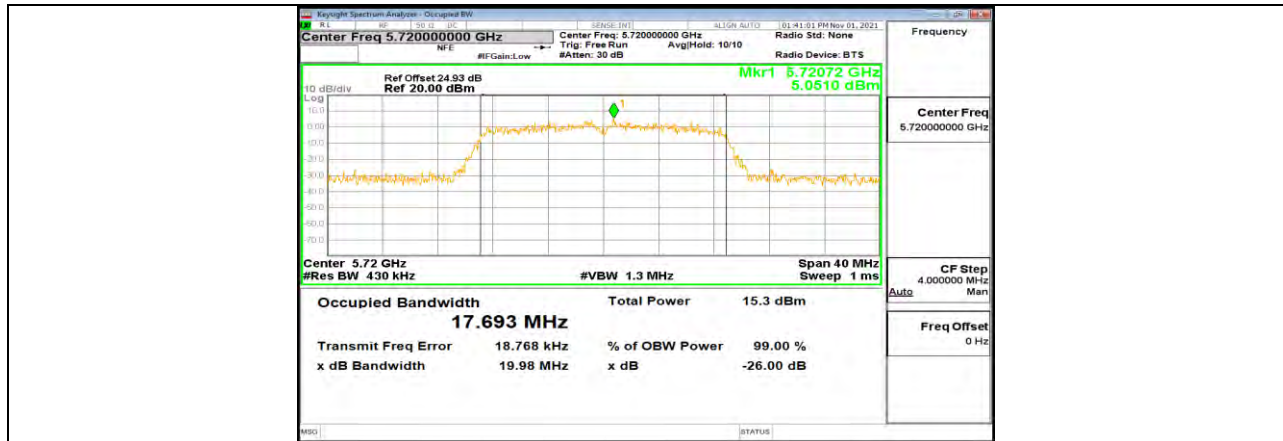
11N20MIMO Ant1 5700

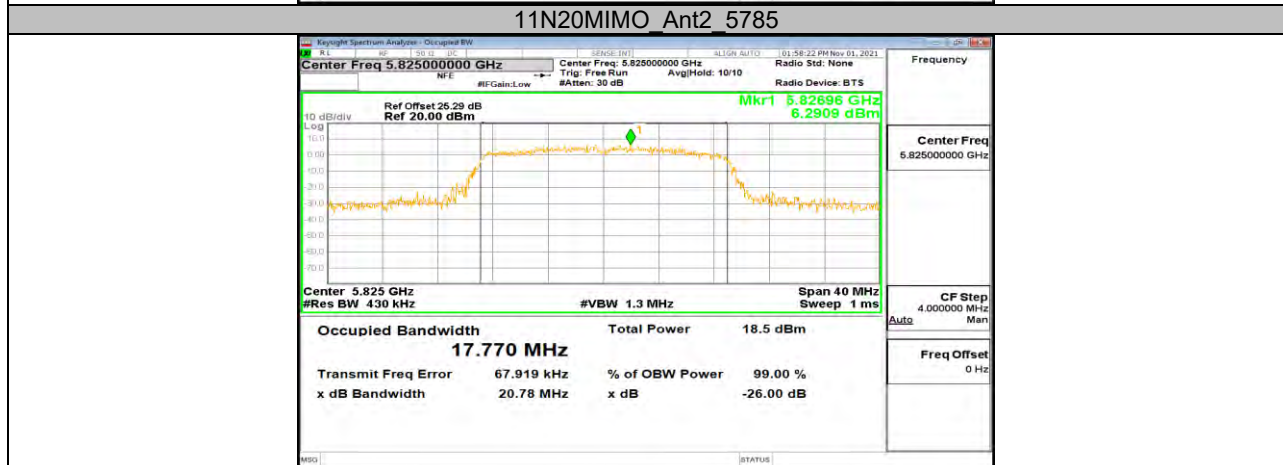
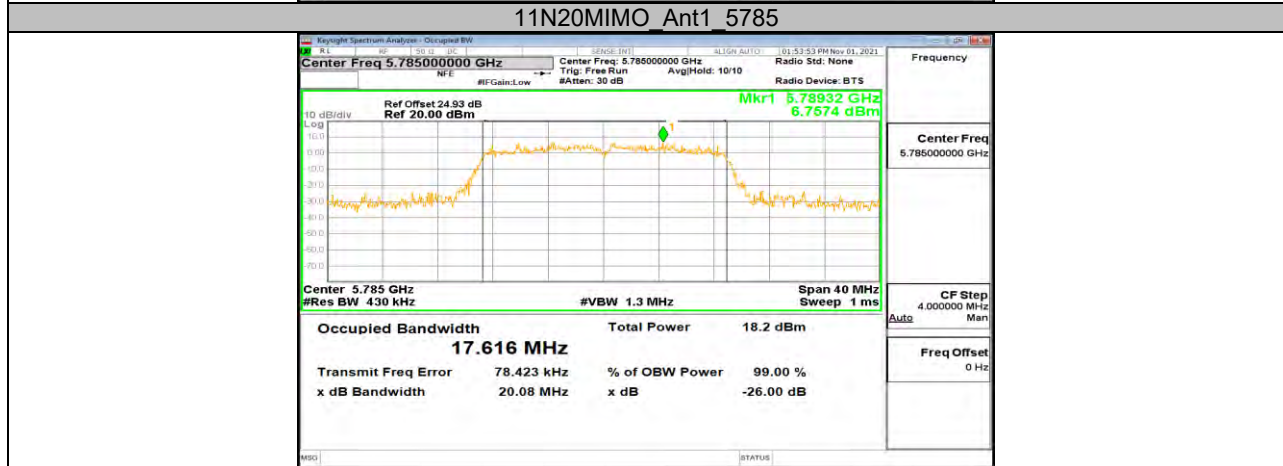
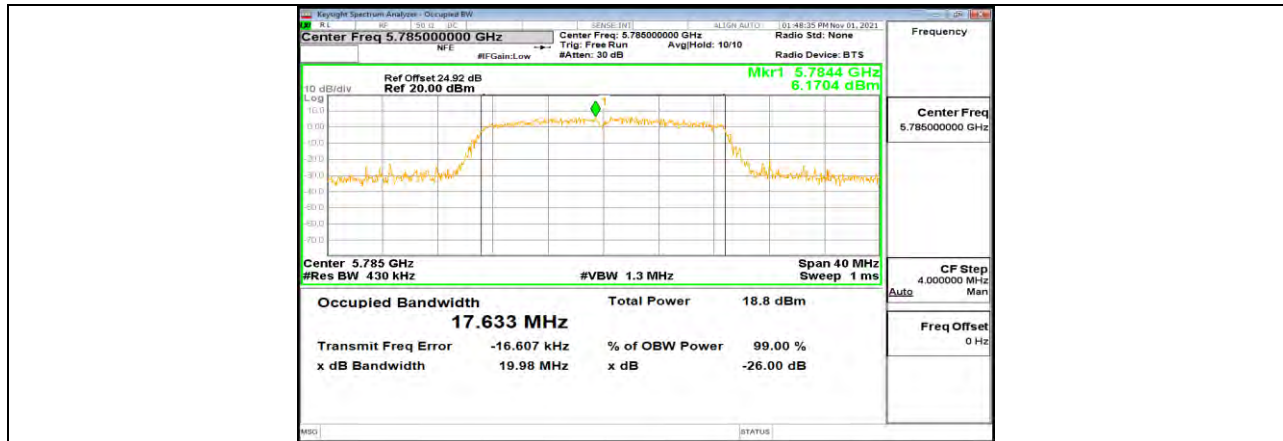


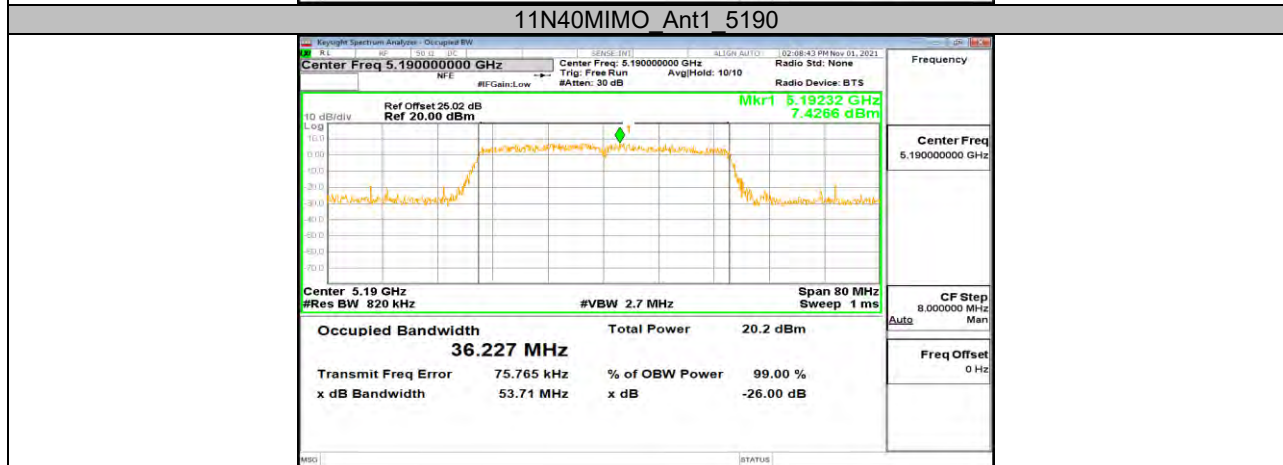
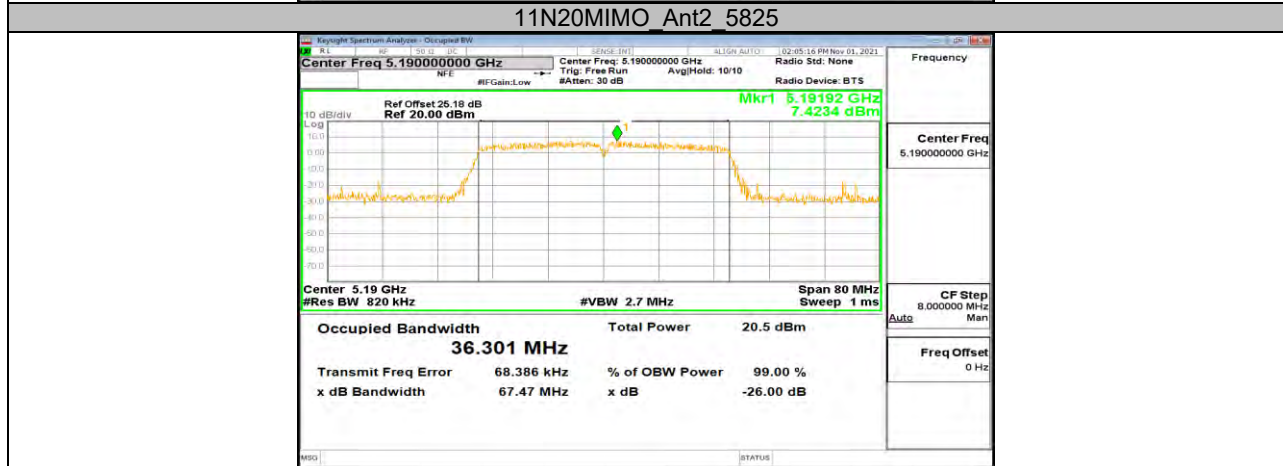
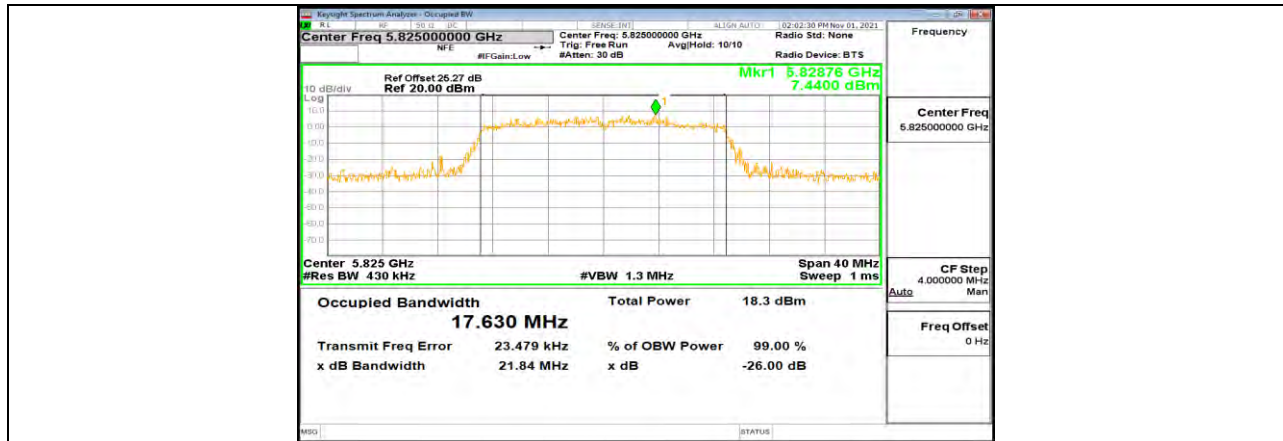
11N20MIMO Ant2 5700

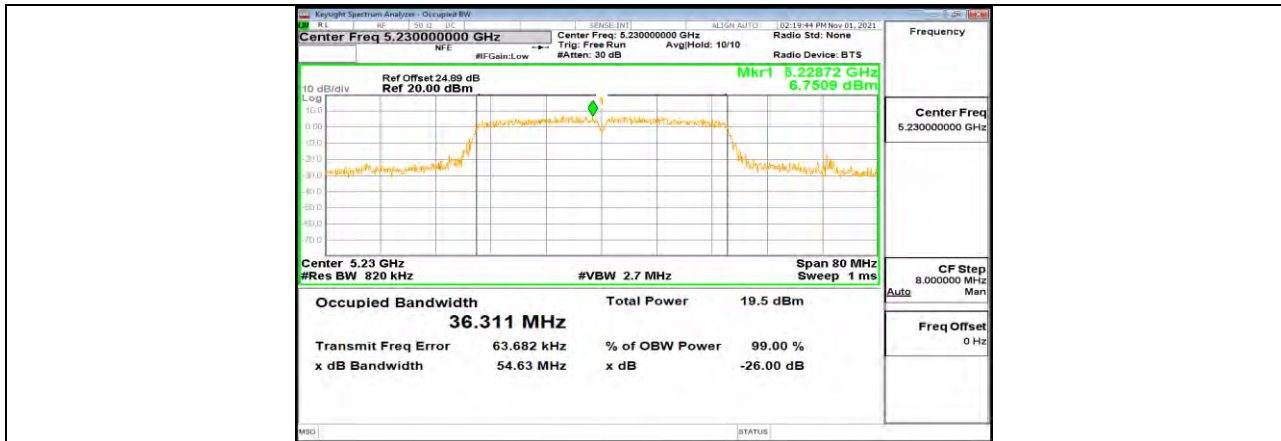


11N20MIMO Ant1 5720

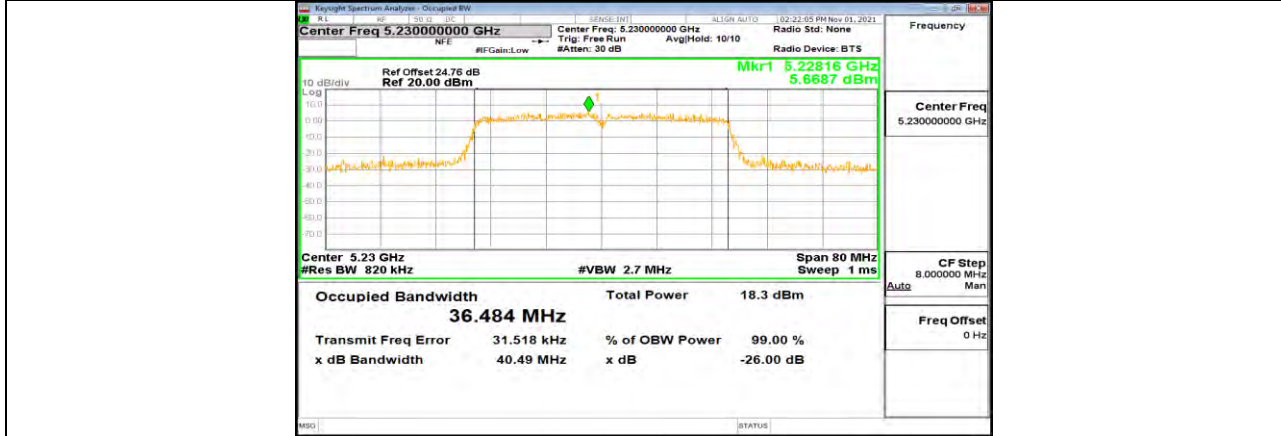




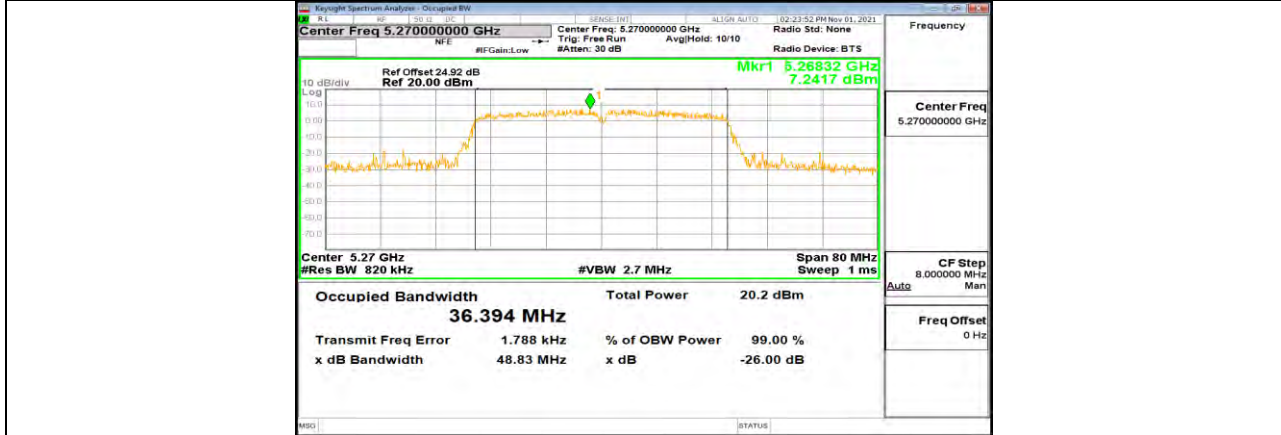




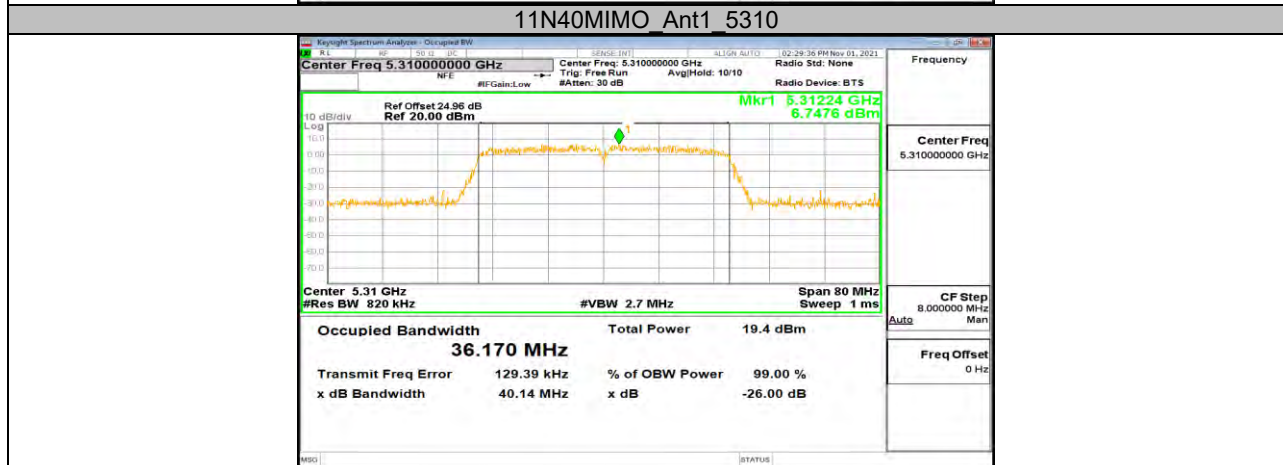
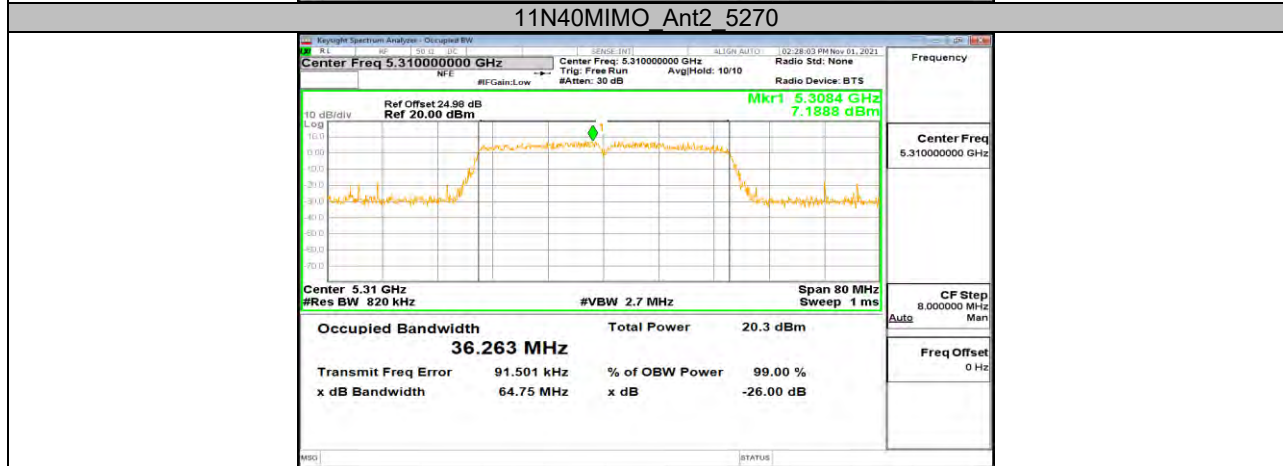
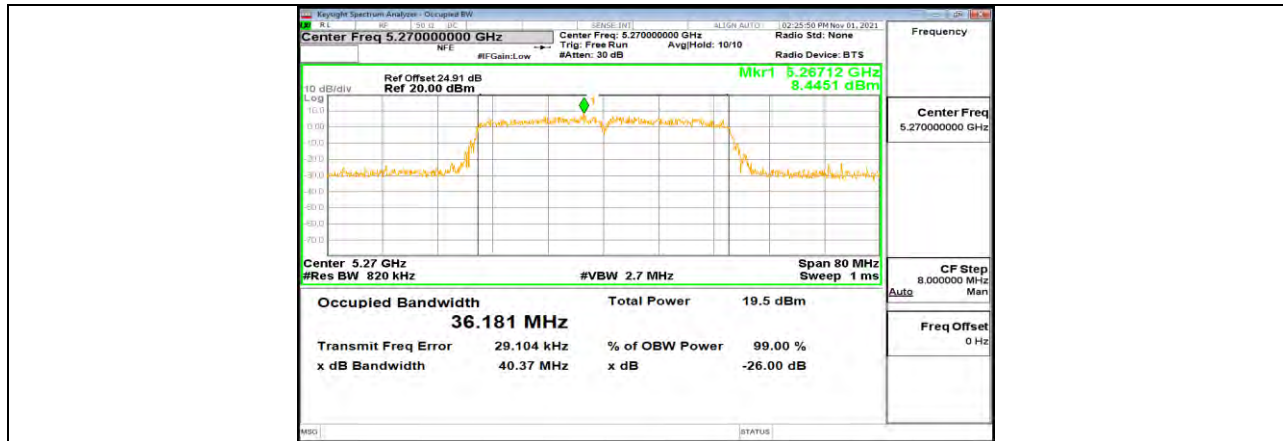
11N40MIMO Ant1 5230

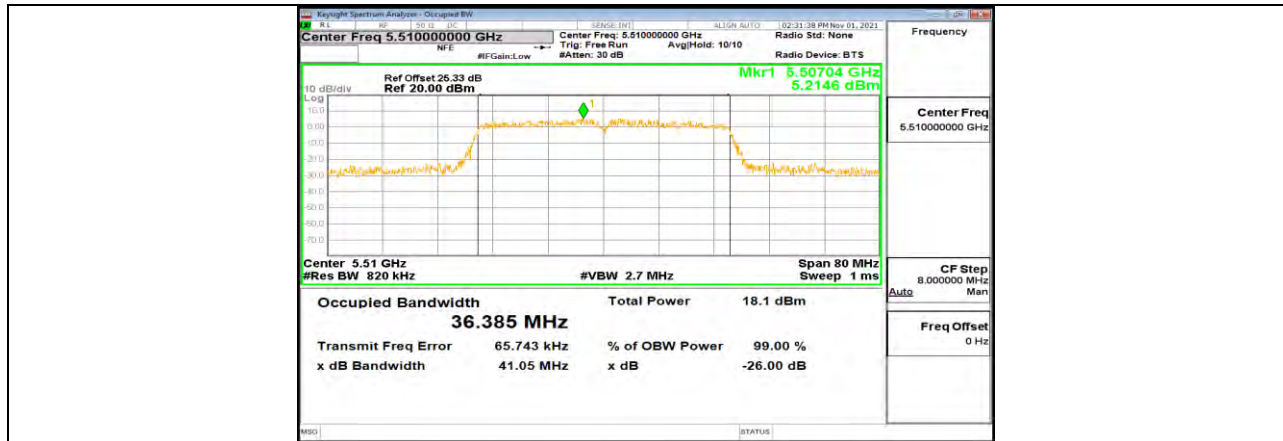


11N40MIMO Ant2 5230

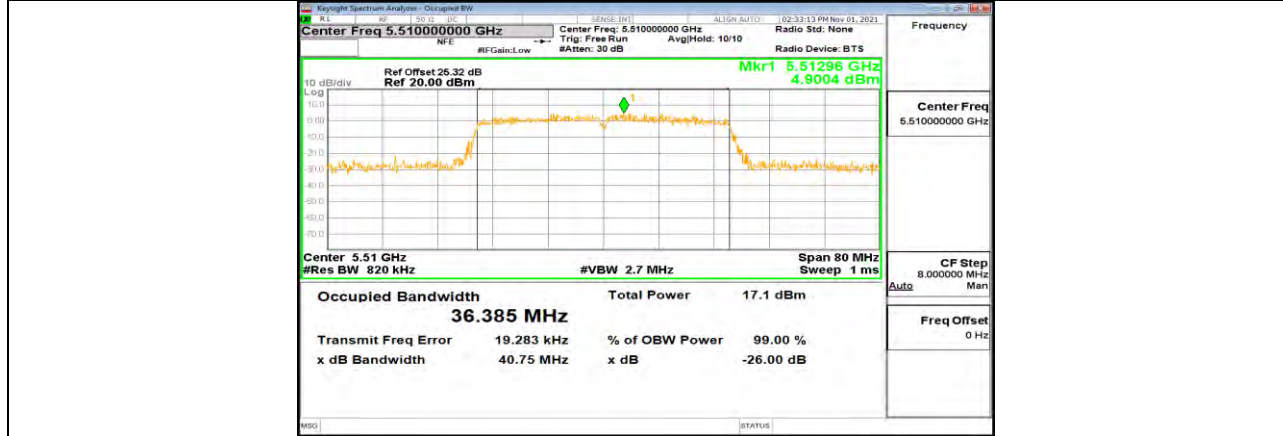


11N40MIMO Ant1 5270

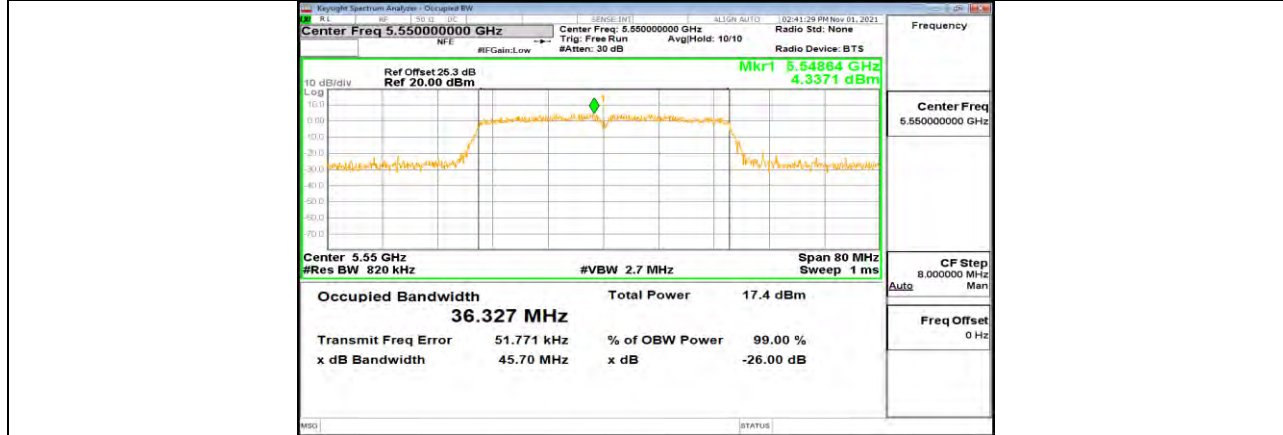




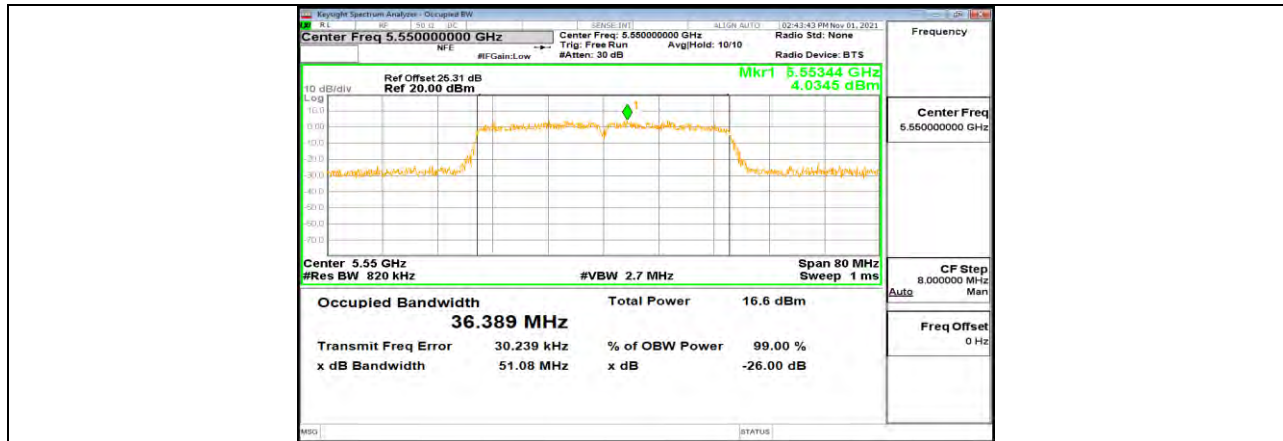
11N40MIMO Ant1 5510



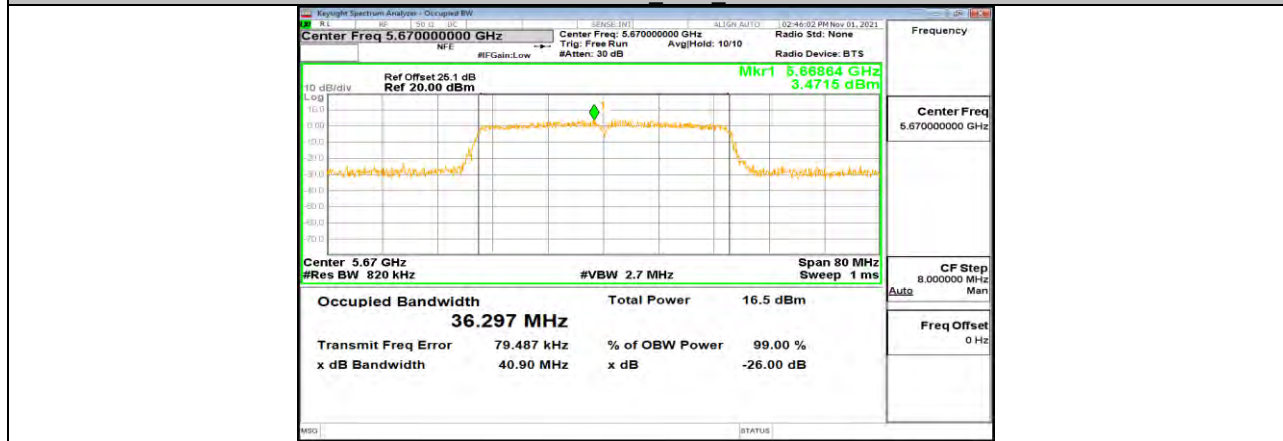
11N40MIMO Ant2 5510



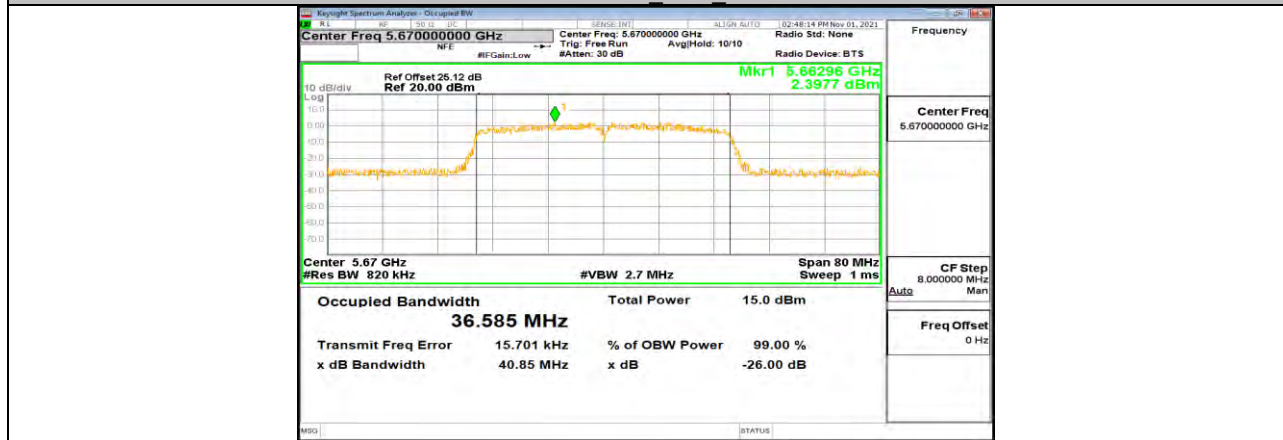
11N40MIMO Ant1 5550



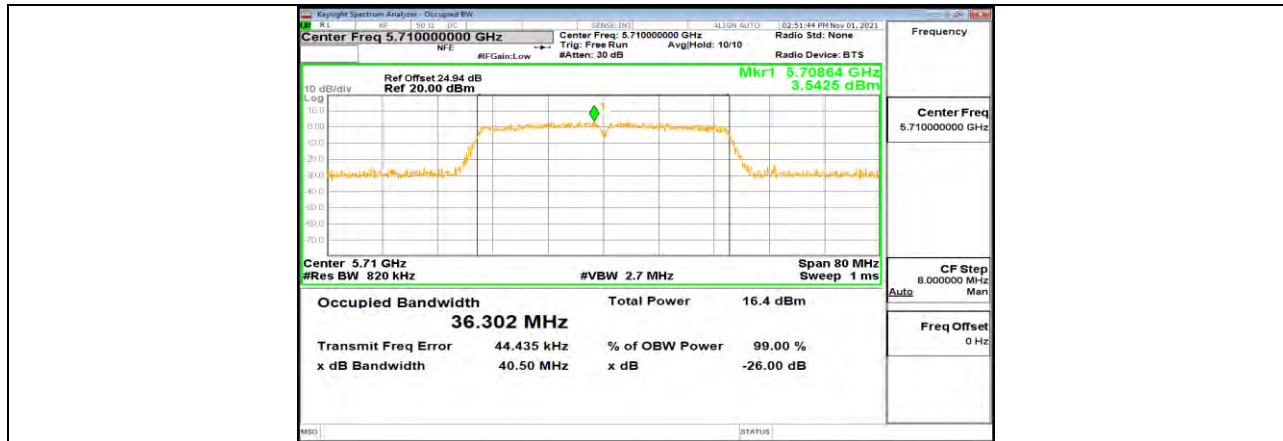
11N40MIMO Ant2 5550



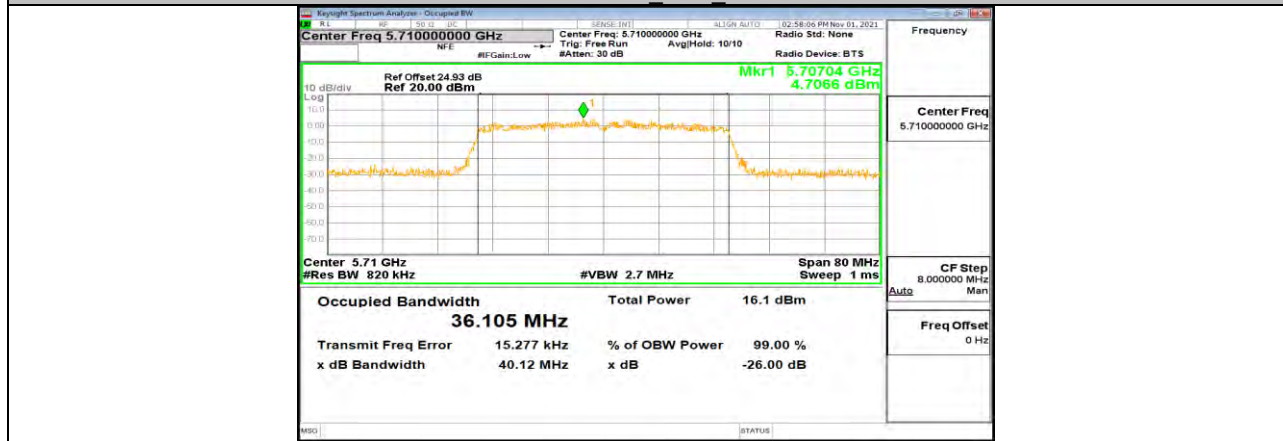
11N40MIMO Ant1 5670



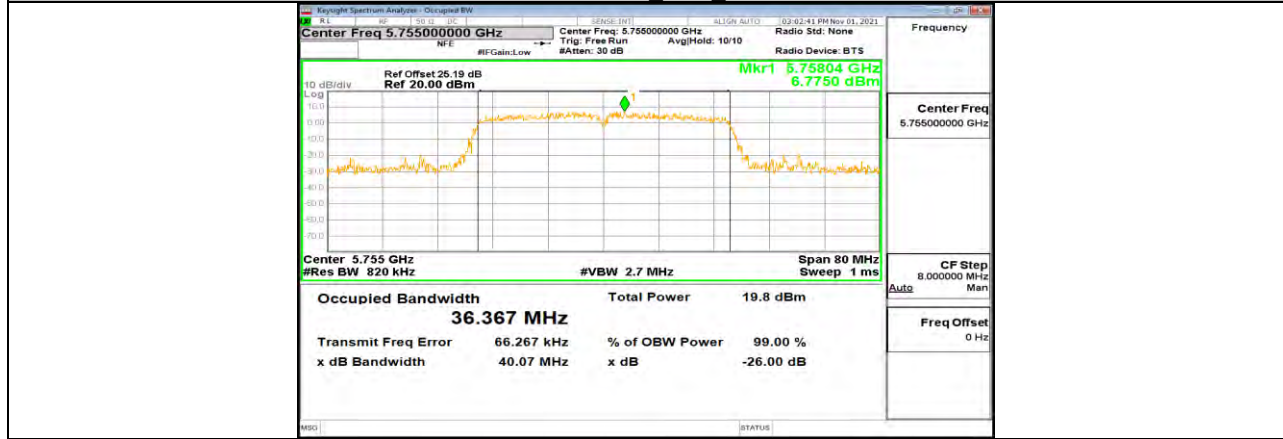
11N40MIMO Ant2 5670



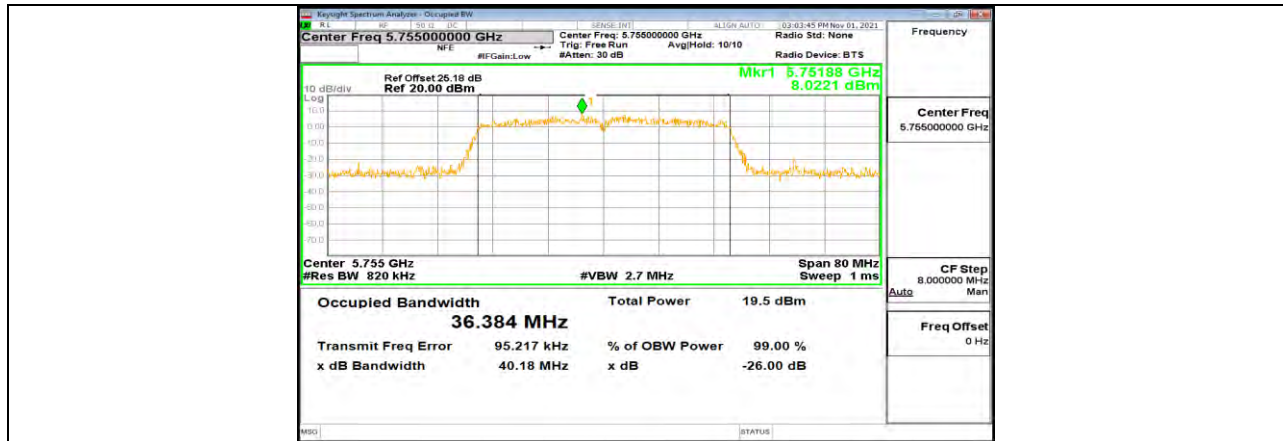
11N40MIMO Ant1 5710



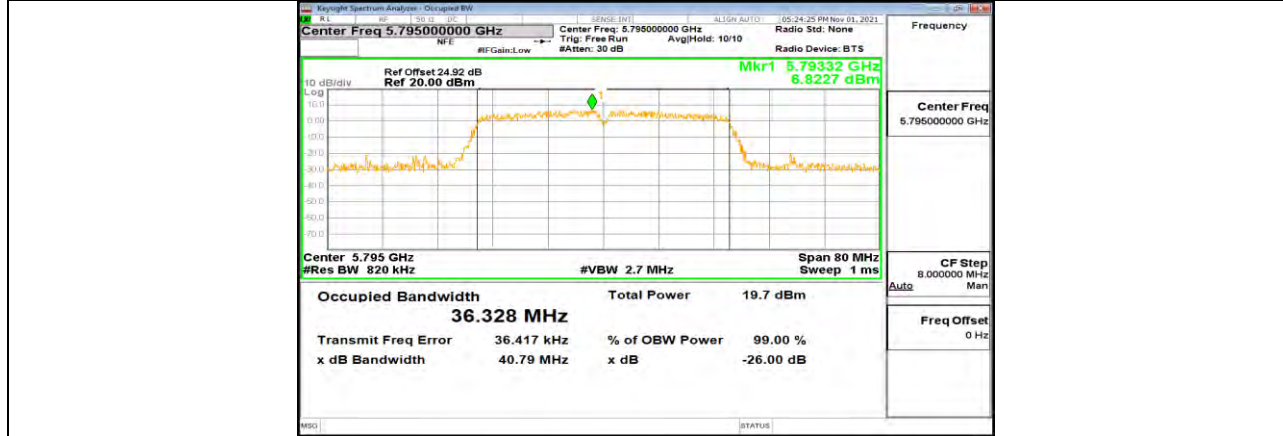
11N40MIMO Ant2 5710



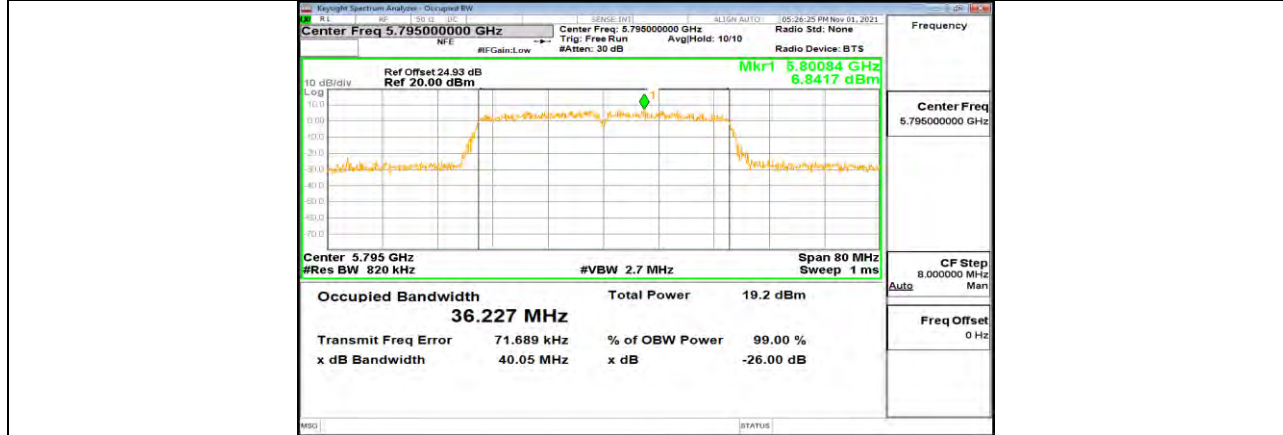
11N40MIMO Ant1 5755



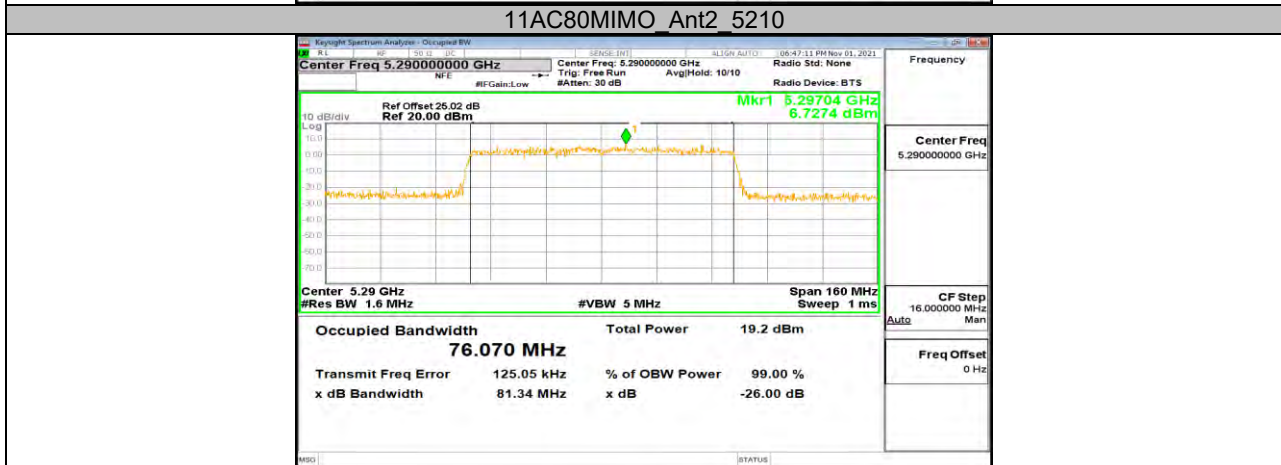
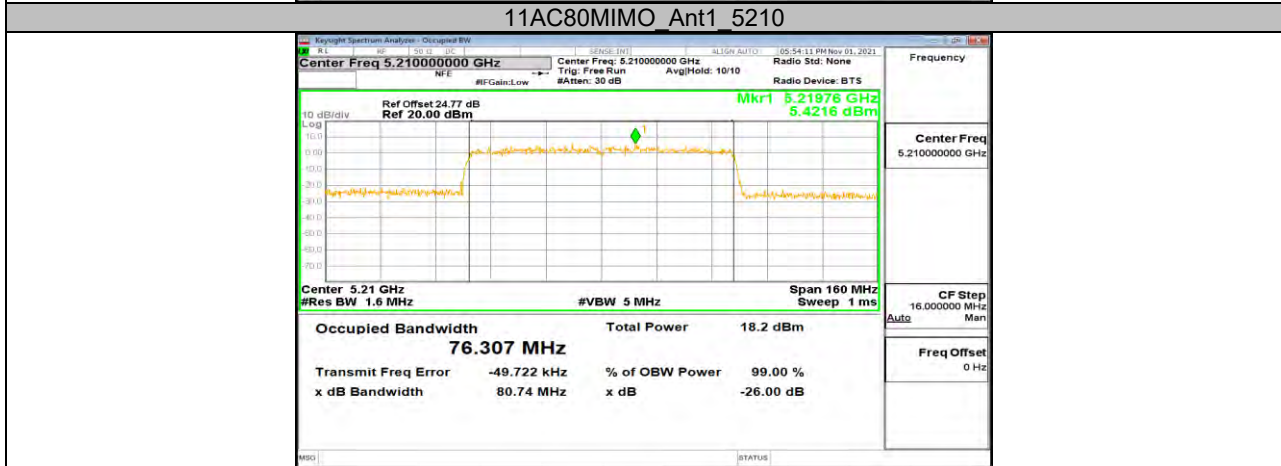
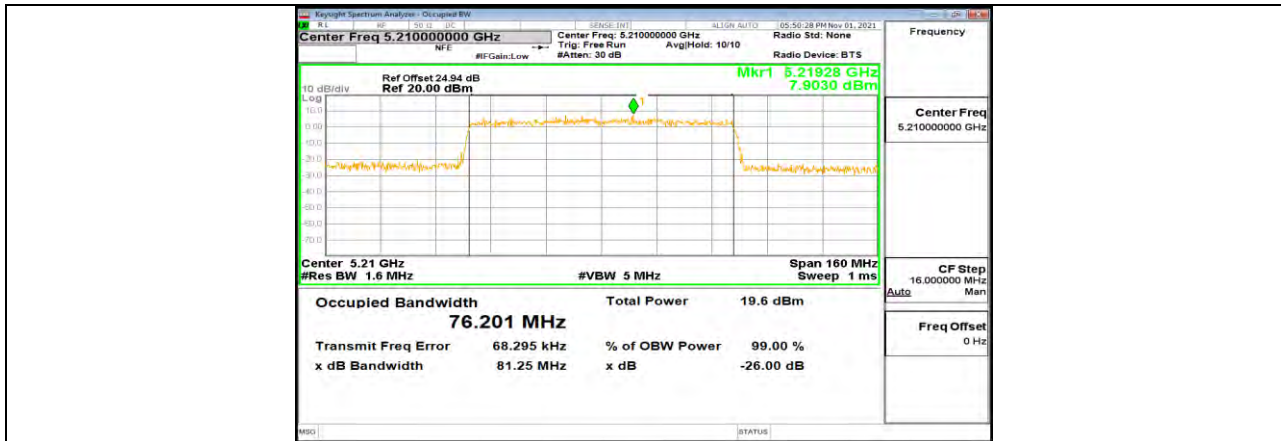
11N40MIMO Ant2 5755

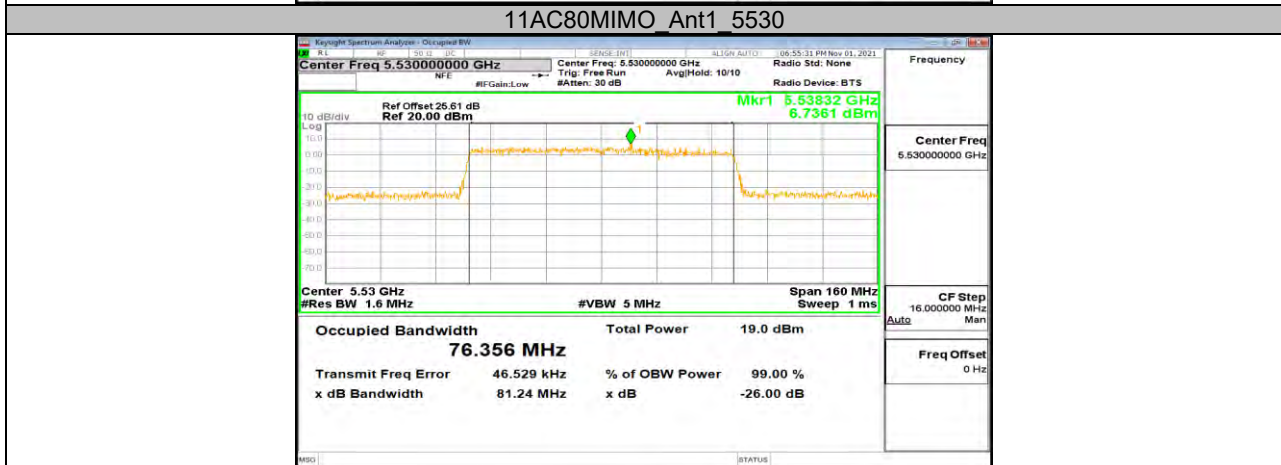
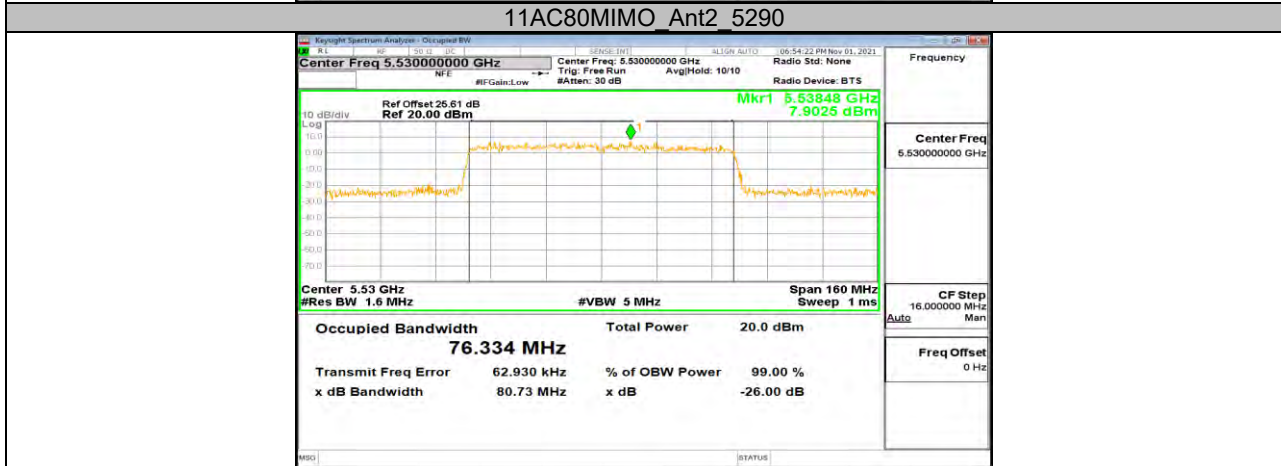
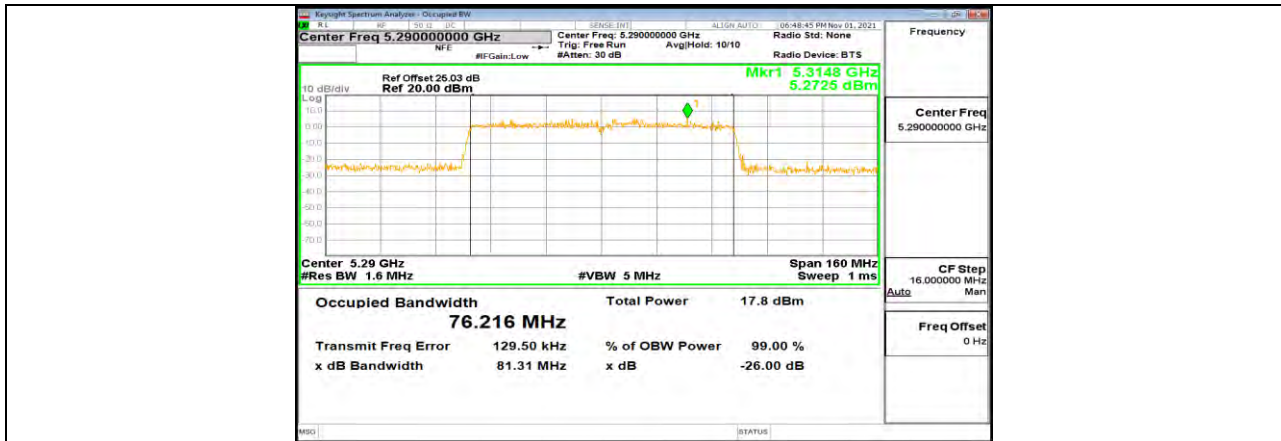


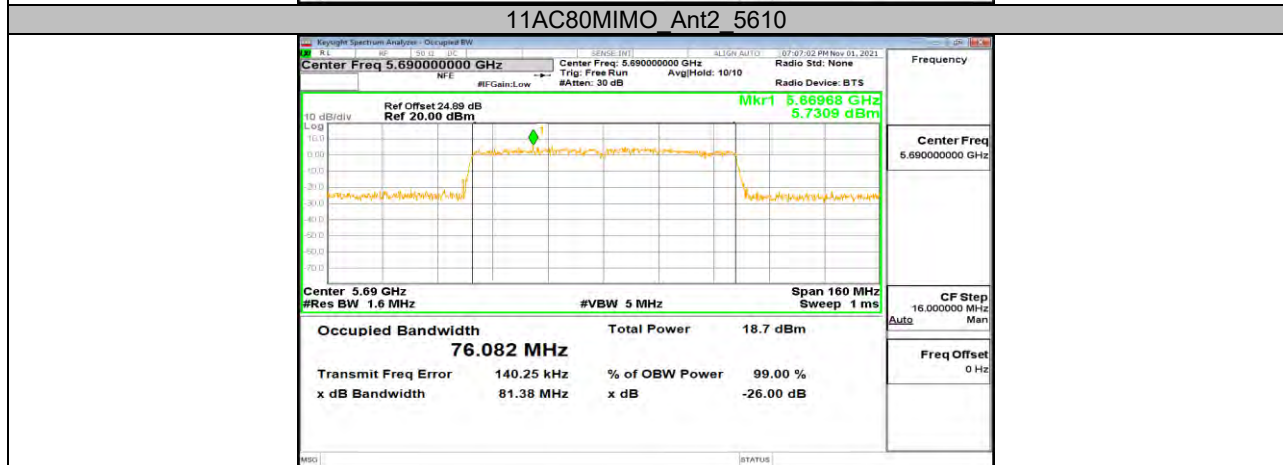
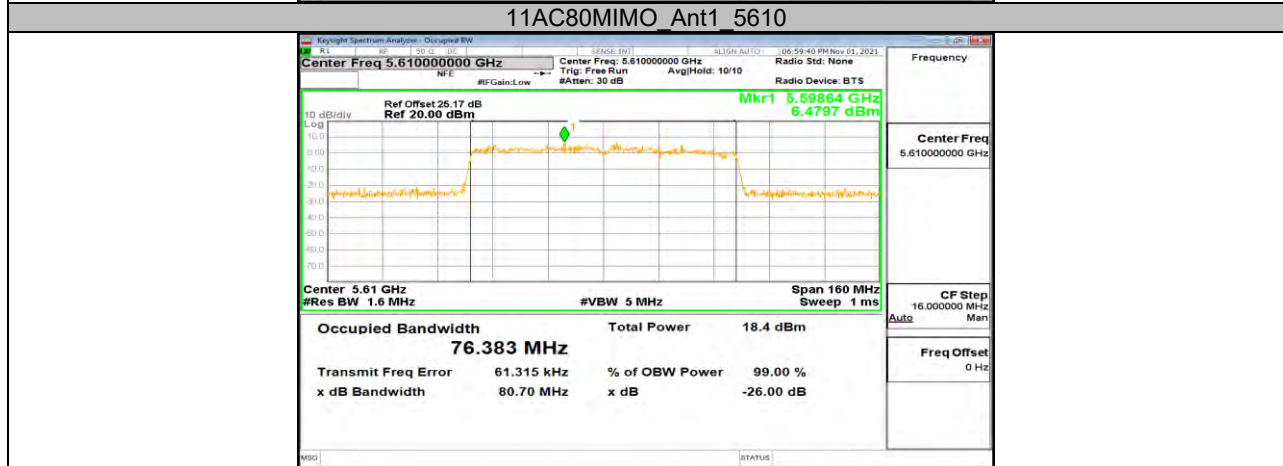
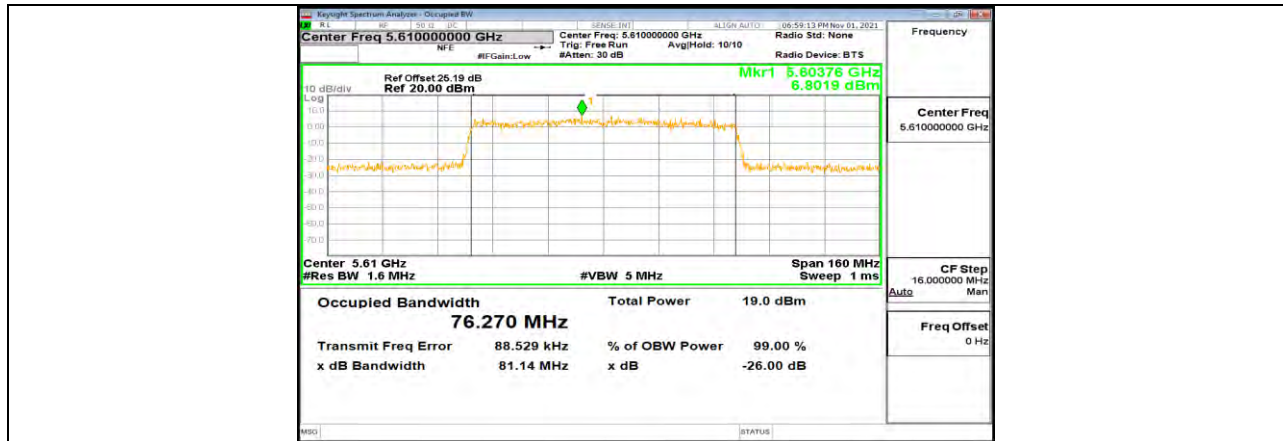
11N40MIMO Ant1 5795

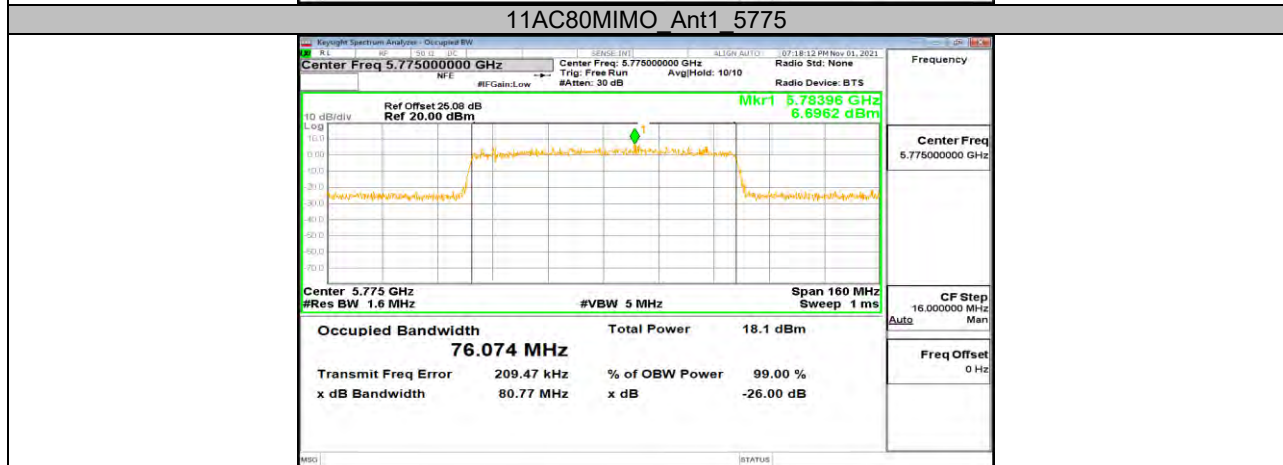
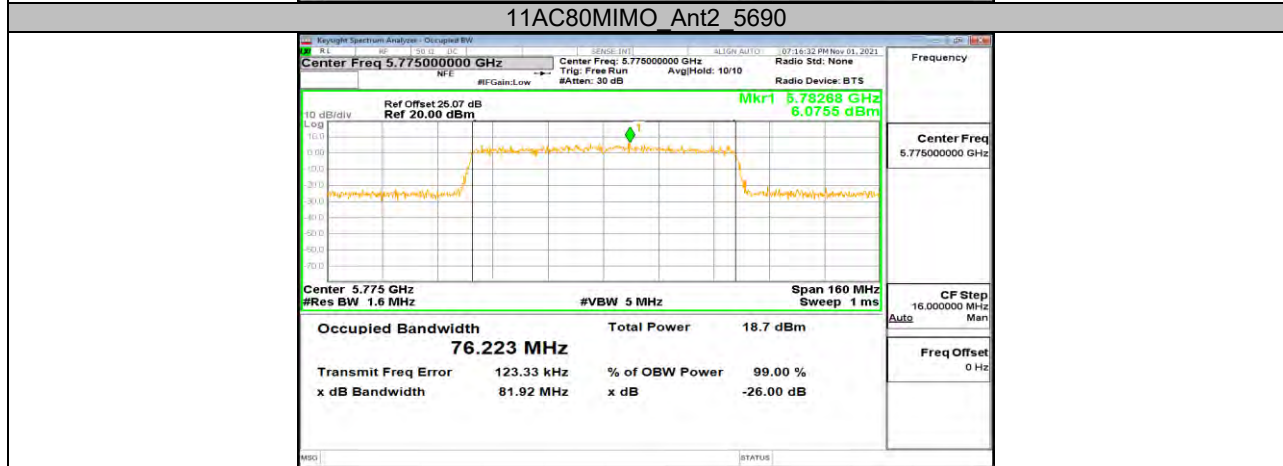
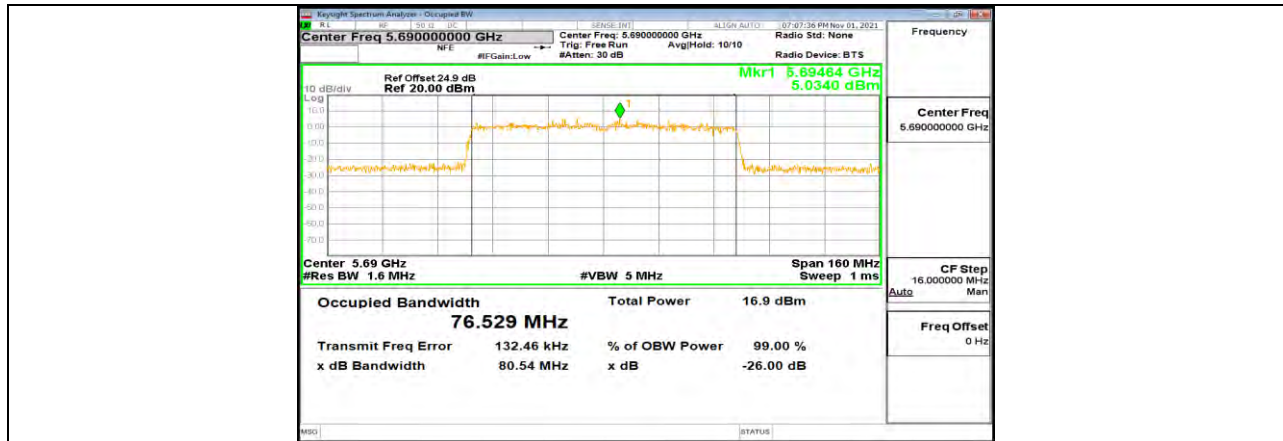


11N40MIMO Ant2 5795











12.3. Appendix A3: Min Emission Bandwidth

12.3.1. Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720 ₃ UNII-	3.16	5725	5728.160	0.5	PASS
	Ant2	5720 ₃ UNII-	3.16	5725	5728.160	0.5	PASS
	Ant1	5745	16.280	5736.840	5753.120	0.5	PASS
	Ant2	5745	16.320	5736.840	5753.160	0.5	PASS
	Ant1	5785	15.800	5777.080	5792.880	0.5	PASS
	Ant2	5785	15.800	5776.840	5792.640	0.5	PASS
	Ant1	5825	16.320	5816.840	5833.160	0.5	PASS
	Ant2	5825	16.320	5816.840	5833.160	0.5	PASS
11N20MIMO	Ant1	5720 ₃ UNII-	3.8	5725	5728.800	0.5	PASS
	Ant2	5720 ₃ UNII-	3.8	5725	5728.800	0.5	PASS
	Ant1	5745	16.640	5736.240	5752.880	0.5	PASS
	Ant2	5745	17.160	5736.600	5753.760	0.5	PASS
	Ant1	5785	17.160	5776.240	5793.400	0.5	PASS
	Ant2	5785	17.280	5776.240	5793.520	0.5	PASS
	Ant1	5825	17.560	5816.240	5833.800	0.5	PASS
	Ant2	5825	11.960	5818.120	5830.080	0.5	PASS
11N40MIMO	Ant1	5710 ₃ UNII-	2.52	5725	5727.520	0.5	PASS
	Ant2	5710 ₃ UNII-	2.52	5725	5727.520	0.5	PASS
	Ant1	5755	36.240	5736.920	5773.160	0.5	PASS
	Ant2	5755	35.680	5737.240	5772.920	0.5	PASS
	Ant1	5795	36.000	5776.840	5812.840	0.5	PASS
	Ant2	5795	36.320	5776.840	5813.160	0.5	PASS
11AC80MIMO	Ant1	5690 ₃ UNII-	2.6	5725	5727.600	0.5	PASS
	Ant2	5690 ₃ UNII-	3.08	5725	5728.080	0.5	PASS
	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS
	Ant2	5775	75.360	5737.240	5812.600	0.5	PASS



12.3.2. Test Graphs



11A Ant1 5720 UNII-3



11A Ant2 5720 UNII-3



11A Ant1 5745



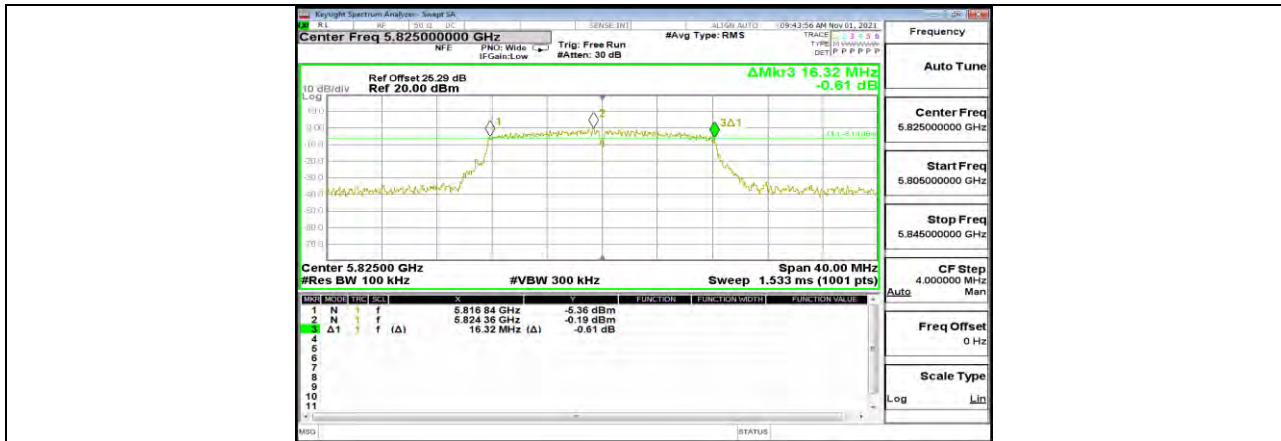
11A Ant2 5745



11A Ant1 5785



11A Ant2 5785



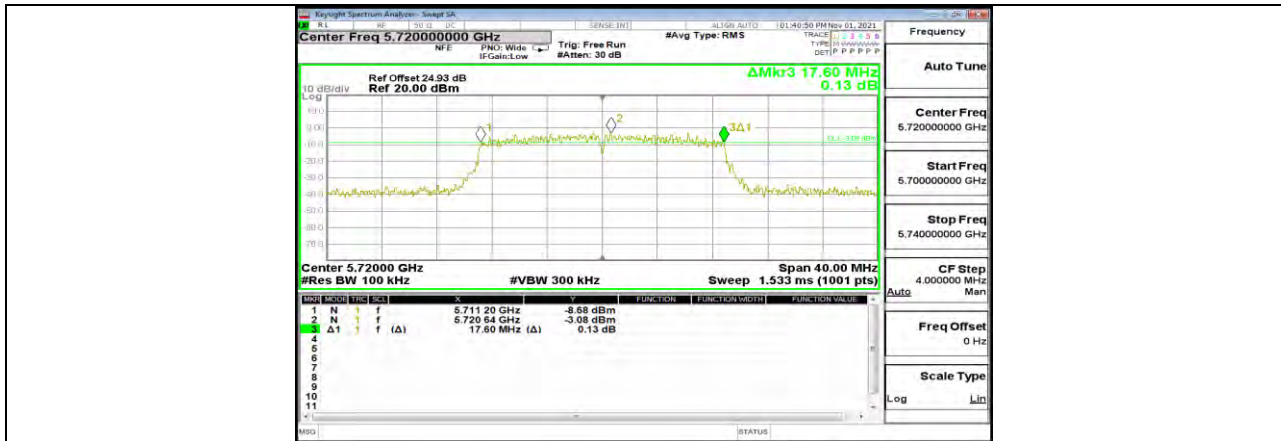
11A Ant1 5825



11A Ant2 5825



11N20MIMO Ant1 5720 U11-3



11N20MIMO Ant2 5720 UNII-3



11N20MIMO Ant1 5745



11N20MIMO Ant2 5745



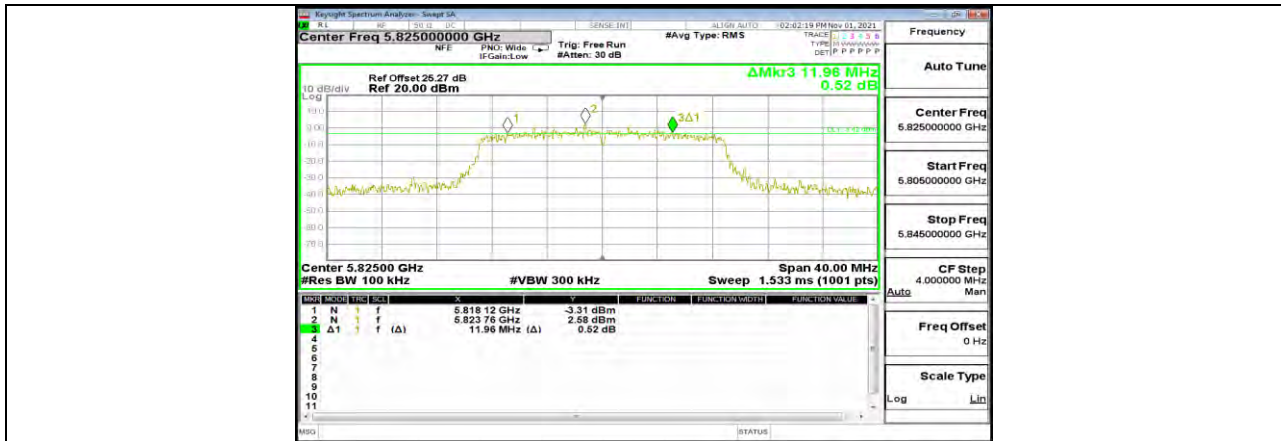
11N20MIMO Ant1 5785



11N20MIMO Ant2 5785



11N20MIMO Ant1 5825



11N20MIMO Ant2 5825



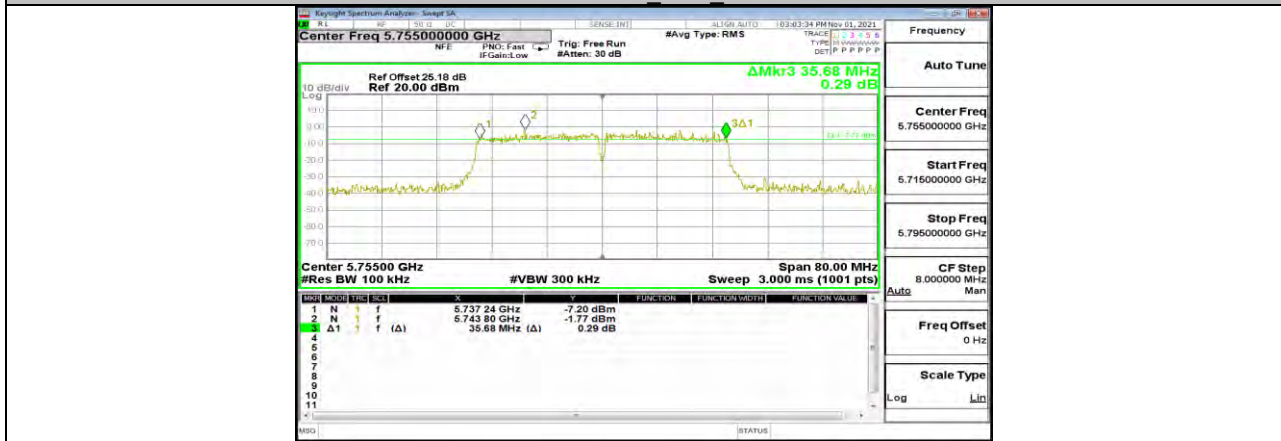
11N40MIMO Ant1 5710 UNII-3



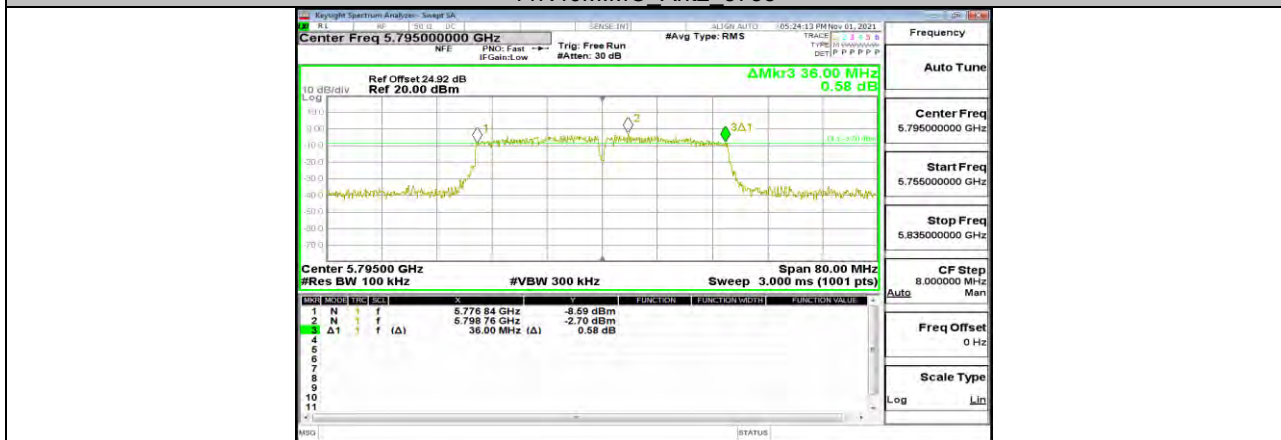
11N40MIMO Ant2 5710 UNII-3



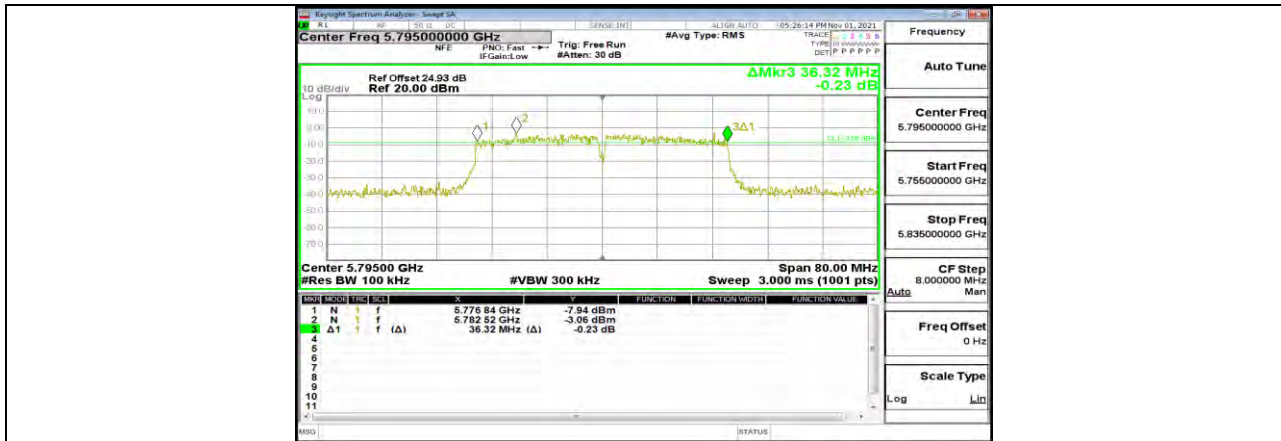
11N40MIMO Ant1 5755



11N40MIMO Ant2 5755



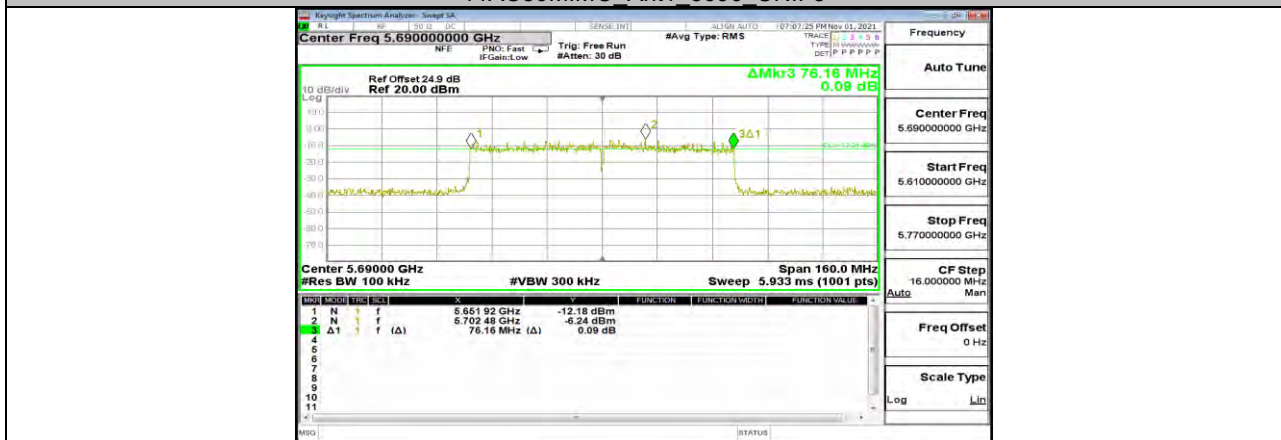
11N40MIMO Ant1 5795



11N40MIMO Ant2 5795



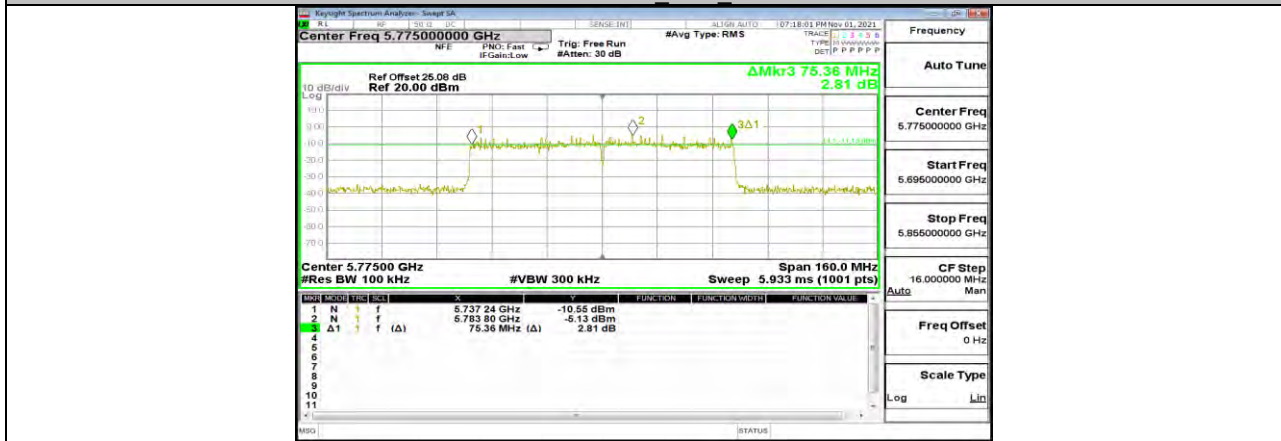
11AC80MIMO Ant1 5690 UNII-3



11AC80MIMO Ant2 5690 UNII-3



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



12.4. Appendix B: Maximum Average Conducted Output Power
12.4.1. Test Result

Mode	Frequency (MHz)	Average Power (dBm)			Directional gain (dBi)	FCC Limit (dBm)	EIRP			ISED EIRP Limit (dBm)
		ANT1 (dBm)	ANT2 (dBm)	Total			ANT1 (dBm)	ANT2 (dBm)	Total	
802.11a	5180	14.25	13.77	/	0.00	24.00	16.98	16.5	/	22.21
	5200	14.22	13.54	/	0.00	24.00	16.95	16.27	/	22.21
	5240	14.23	13.66	/	0.00	24.00	16.96	16.39	/	22.21
	5260	14.55	13.27	/	0.00	24.00	17.28	16.00	/	23.21
	5280	14.15	13.03	/	0.00	24.00	16.88	15.76	/	23.21
	5320	14.16	13.28	/	0.00	24.00	16.89	16.01	/	23.21
	5500	15.16	14.37	/	0.00	24.00	17.89	17.10	/	23.21
	5580	15.29	14.16	/	0.00	24.00	18.02	16.89	/	23.21
	5700	14.32	13.72	/	0.00	24.00	17.08	16.45	/	23.21
	5720-2C	12.97	12.40	/	0.00	24.00	15.70	15.13	/	23.21
	5720-3	5.03	4.84	/	0.00	30.00	7.76	7.57	/	29.00
	5745	14.20	13.40	/	0.00	30.00	16.93	16.13	/	30.00
	5785	14.01	13.36	/	0.00	30.00	16.74	16.09	/	30.00
5825	13.54	13.10	/	0.00	30.00	16.27	15.83	/	30.00	
802.11n 20M	5180	11.48	10.37	13.97	2.73	24.00	/	/	16.70	22.50
	5200	11.23	10.15	13.73	2.73	24.00	/	/	16.46	22.50
	5240	11.31	10.06	13.74	2.73	24.00	/	/	16.47	22.50
	5260	14.84	14.01	17.46	2.73	24.00	/	/	20.19	23.50
	5280	14.78	13.92	17.38	2.73	24.00	/	/	20.11	23.50
	5320	14.83	14.01	17.45	2.73	24.00	/	/	20.18	23.50
	5500	12.02	11.25	14.66	2.73	24.00	/	/	17.39	23.50
	5580	12.38	11.36	14.91	2.73	24.00	/	/	17.64	23.50
	5700	11.09	10.73	13.92	2.73	24.00	/	/	16.65	23.50
	5720-2C	10.05	9.63	12.86	2.73	25.00	/	/	15.59	23.50
	5720-3	2.93	2.43	5.70	2.73	29.00	/	/	8.43	29.00
	5745	14.23	14.10	17.18	2.73	30.00	/	/	19.91	30.00
	5785	14.10	13.60	16.87	2.73	30.00	/	/	19.60	30.00
5825	13.95	13.58	16.78	2.73	30.00	/	/	19.51	30.00	
802.11n 40M	5190	14.59	13.26	16.99	2.73	24.00	/	/	19.72	23.00
	5230	14.27	12.90	16.65	2.73	24.00	/	/	19.38	23.00
	5270	15.17	14.00	17.63	2.73	24.00	/	/	20.36	24.00
	5310	15.25	13.98	17.67	2.73	24.00	/	/	20.40	24.00
	5510	12.23	11.17	14.74	2.73	24.00	/	/	17.47	24.00



	5550	12.20	11.10	14.70	2.73	24.00	/	/	17.43	24.00
	5670	11.29	9.72	13.59	2.73	24.00	/	/	16.32	24.00
	5710-2C	10.95	10.27	13.63	2.73	25.00	/	/	16.36	24.00
	5710-3	-1.26	-1.93	1.43	2.73	29.00	/	/	4.16	29.00
	5755	14.85	14.01	17.46	2.73	30.00	/	/	20.19	30.00
	5795	14.43	13.88	17.17	2.73	30.00	/	/	19.90	30.00
802.11ac 80M	5210	12.93	11.16	15.14	2.73	24.00	/	/	17.87	23.00
	5290	12.40	10.85	14.70	2.73	24.00	/	/	17.43	24.00
	5530	9.40	8.61	12.03	2.73	24.00	/	/	14.76	24.00
	5610	8.73	7.49	11.16	2.73	24.00	/	/	13.89	24.00
	5690-2C	7.56	6.07	9.89	2.73	25.00	/	/	12.62	24.00
	5690-3	-7.12	-8.71	-4.83	2.73	29.00	/	/	-2.10	24.00
	5775	11.83	11.29	14.58	2.73	30.00	/	/	17.31	30.00

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.



12.5. Appendix C: Maximum Power Spectral Density

12.5.1. Test Result

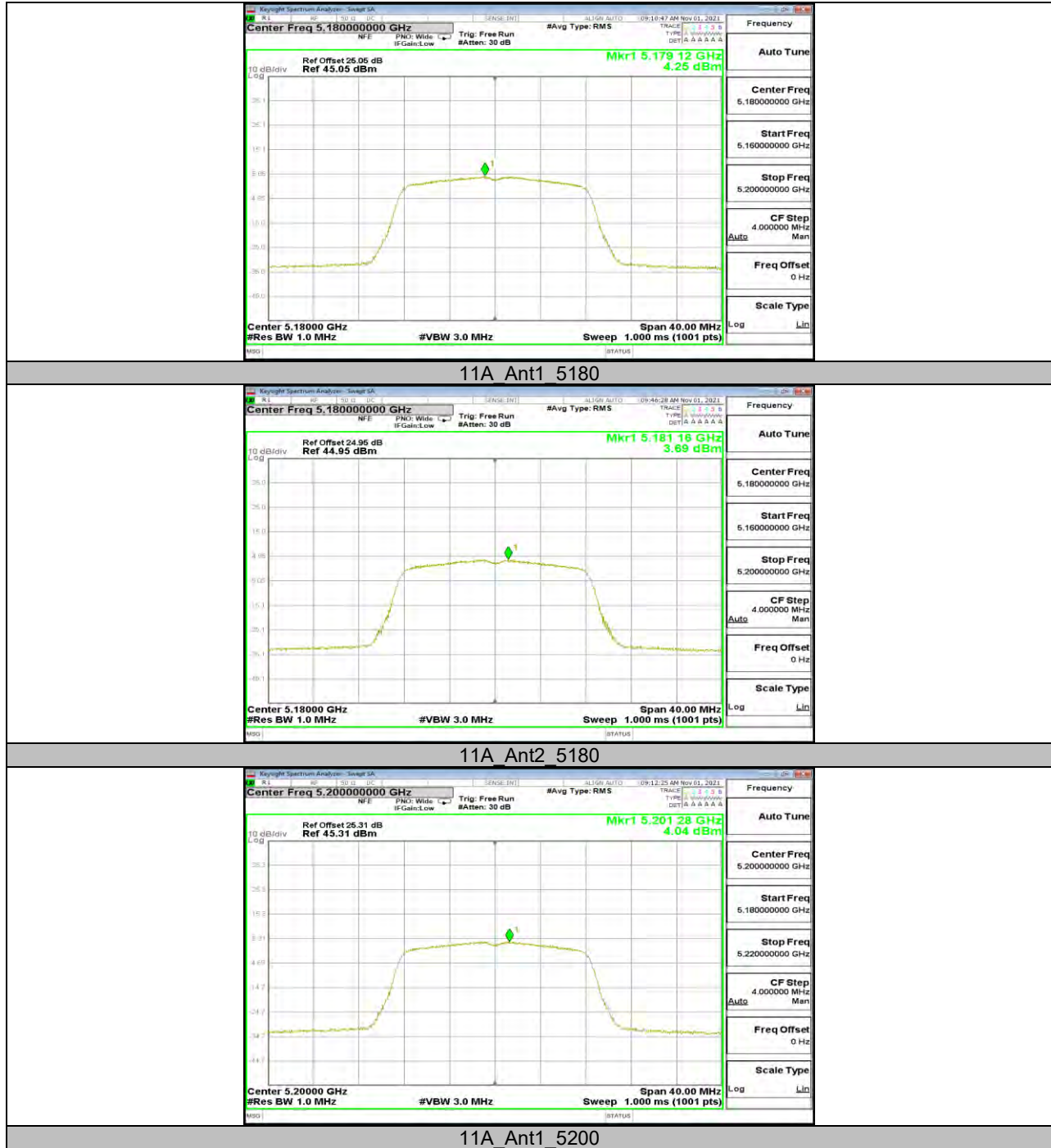
Mode	Frequency (MHz)	PSD 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)			Directional gain (dBi)	FCC Limit 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)	EIRP			ISED EIRP Limit 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a 20	5180	4.25	3.69	/	0.00	11.00	6.98	6.42	/	10.00
	5200	4.04	3.28	/	0.00	11.00	6.77	6.01	/	10.00
	5240	4.10	3.55	/	0.00	11.00	6.83	6.28	/	10.00
	5260	4.77	3.08	/	0.00	11.00	7.50	5.81	/	11.00
	5280	3.96	3.08	/	0.00	11.00	6.69	5.81	/	11.00
	5320	4.05	3.02	/	0.00	11.00	6.78	5.75	/	11.00
	5500	5.19	4.25	/	0.00	11.00	7.92	6.98	/	11.00
	5580	5.36	4.00	/	0.00	11.00	8.09	6.73	/	11.00
	5700	4.20	3.42	/	0.00	11.00	6.93	6.15	/	11.00
	5720-2C	3.82	3.33	/	0.00	11.00	6.55	6.06	/	12.00
	5720-3	-1.27	-1.48	/	0.00	30.00	1.46	1.25	/	29.00
	5745	1.04	0.45	/	0.00	30.00	3.77	3.18	/	30.00
	5785	0.84	0.23	/	0.00	30.00	3.57	2.96	/	30.00
	5825	0.56	0.25	/	0.00	30.00	3.29	2.98	/	30.00
802.11n HT20	5180	1.14	0.52	3.85	5.74	11.00	/	/	9.59	10.00
	5200	1.21	-0.03	3.64	5.74	11.00	/	/	9.38	10.00
	5240	0.86	-0.14	3.40	5.74	11.00	/	/	9.14	10.00
	5260	4.69	4.11	7.42	5.74	11.00	/	/	13.16	11.00
	5280	4.55	3.86	7.23	5.74	11.00	/	/	12.97	11.00
	5320	4.77	3.67	7.27	5.74	11.00	/	/	13.01	11.00
	5500	1.73	1.52	4.64	5.74	11.00	/	/	10.38	11.00
	5580	2.19	1.28	4.77	5.74	11.00	/	/	10.51	11.00
	5700	0.86	0.31	3.60	5.74	11.00	/	/	9.34	11.00
	5720-2C	0.76	0.26	3.53	5.74	12.00	/	/	9.27	12.00
	5720-3	-4.04	-4.37	-1.19	5.74	29.00	/	/	4.55	29.00
	5745	0.79	0.74	3.78	5.74	30.00	/	/	9.52	30.00
	5785	1.24	0.65	3.97	5.74	30.00	/	/	9.71	30.00
5825	0.75	0.44	3.61	5.74	30.00	/	/	9.35	30.00	
802.11n HT40	5190	0.80	-0.17	3.35	5.74	11.00	/	/	9.09	10.00
	5230	0.53	-0.80	2.93	5.74	11.00	/	/	8.67	10.00
	5270	1.35	0.44	3.93	5.74	11.00	/	/	9.67	11.00
	5310	1.73	0.12	4.01	5.74	11.00	/	/	9.75	11.00
	5510	-1.63	-2.53	0.95	5.74	11.00	/	/	6.69	11.00
	5550	-1.63	-2.61	0.92	5.74	11.00	/	/	6.66	11.00

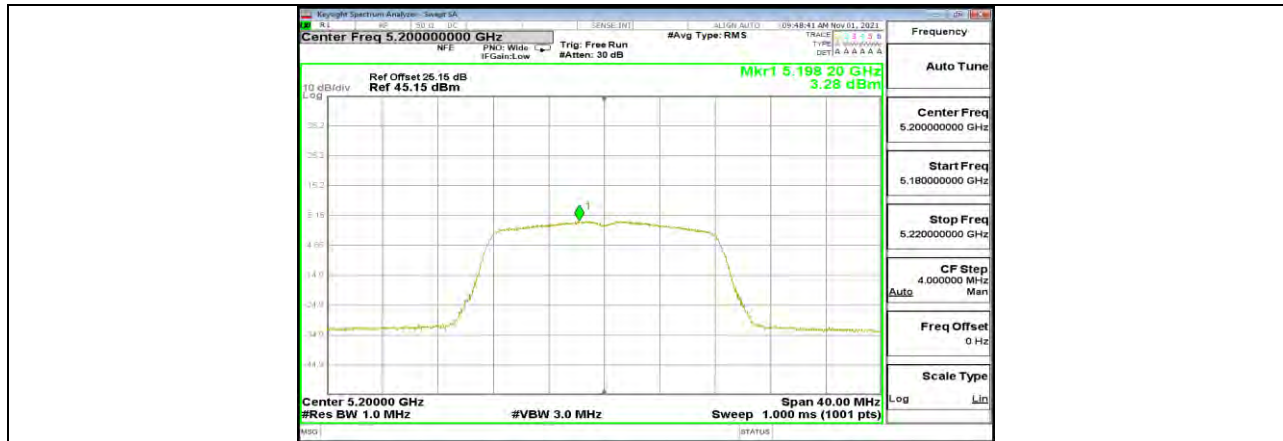


	5670	-2.57	-3.81	-0.14	5.74	11.00	/	/	5.6	11.00
	5710-2C	-2.46	-3.21	0.19	5.74	12.00	/	/	5.93	12.00
	5710-3	-7.89	-8.79	-5.31	5.74	29.00	/	/	0.43	29.00
	5755	-1.96	-2.70	0.70	5.74	30.00	/	/	6.44	30.00
	5795	-1.83	-2.79	0.73	5.74	30.00	/	/	6.47	30.00
802.11ac VHT80	5210	-4.18	-5.39	-1.73	5.74	11.00	/	/	4.01	10.00
	5290	-3.88	-5.97	-1.79	5.74	11.00	/	/	3.95	11.00
	5530	-8.03	-3.06	-1.86	5.74	11.00	/	/	3.88	11.00
	5610	-8.14	-9.41	-5.72	5.74	11.00	/	/	0.02	11.00
	5690-2C	-3.95	-10.36	-3.06	5.74	12.00	/	/	2.68	12.00
	5690-3	-9.62	-15.17	-8.55	5.74	29.00	/	/	-2.81	29.00
	5775	-7.31	-7.49	-4.39	5.74	30.00	/	/	1.35	30.00

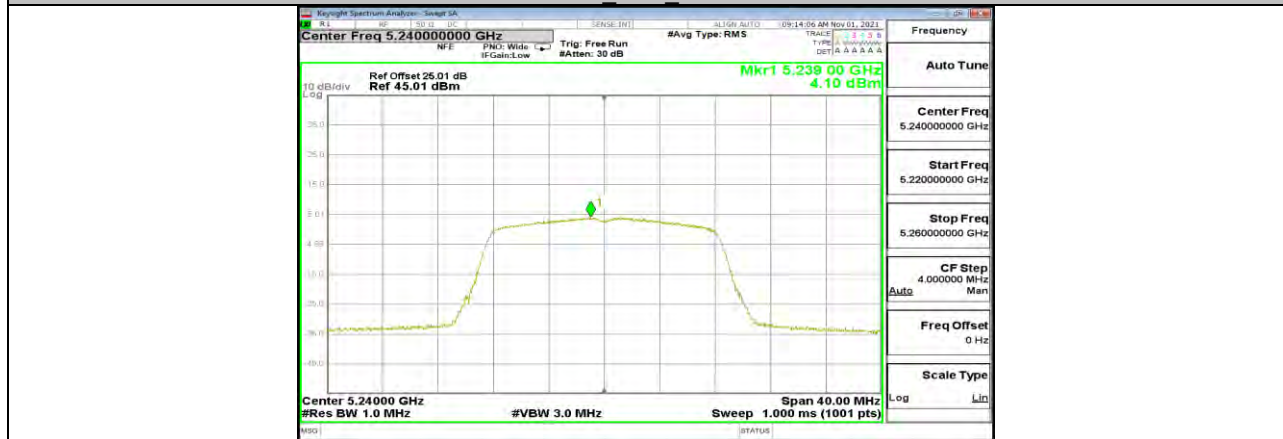
Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725 ~ 5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

12.5.2. Test Graphs





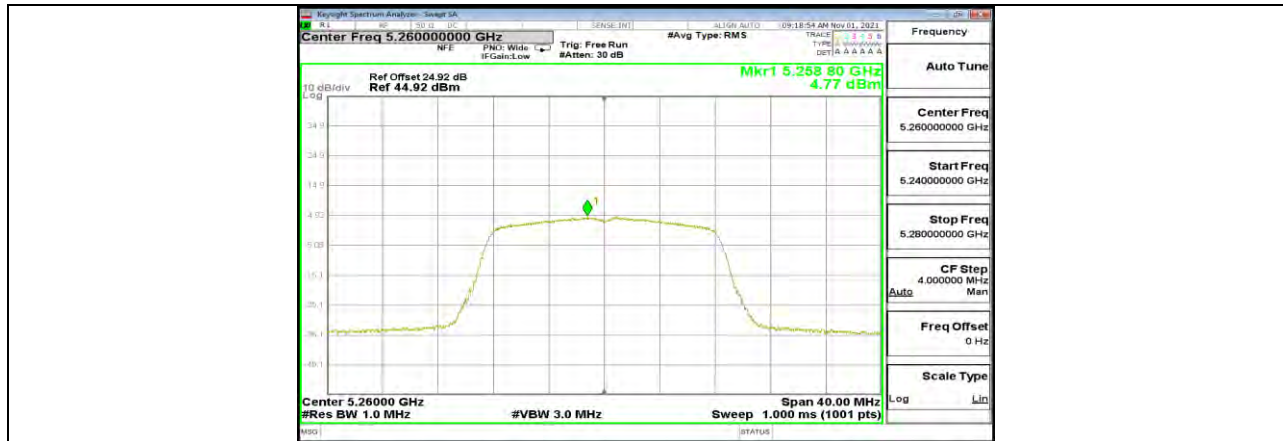
11A_Ant2_5200



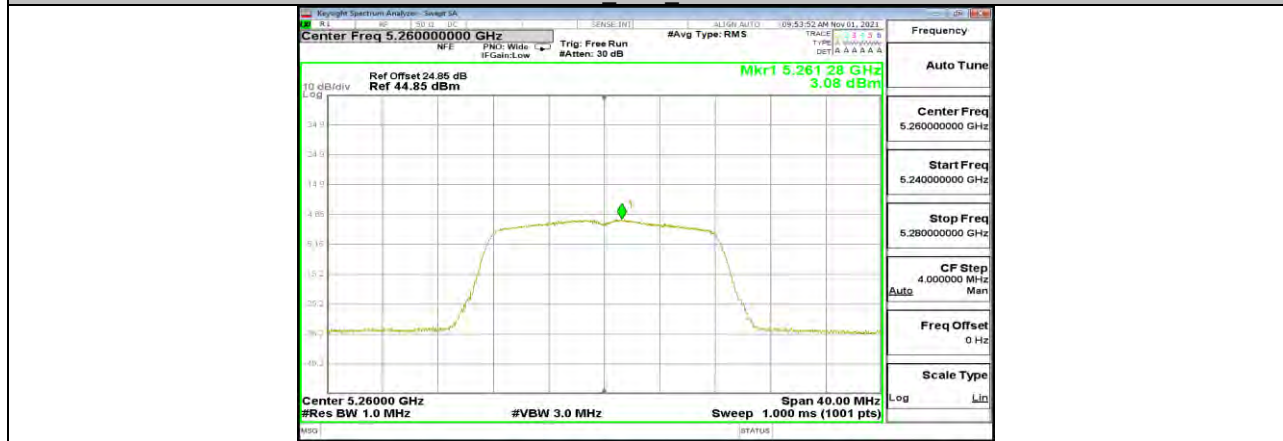
11A_Ant1_5240



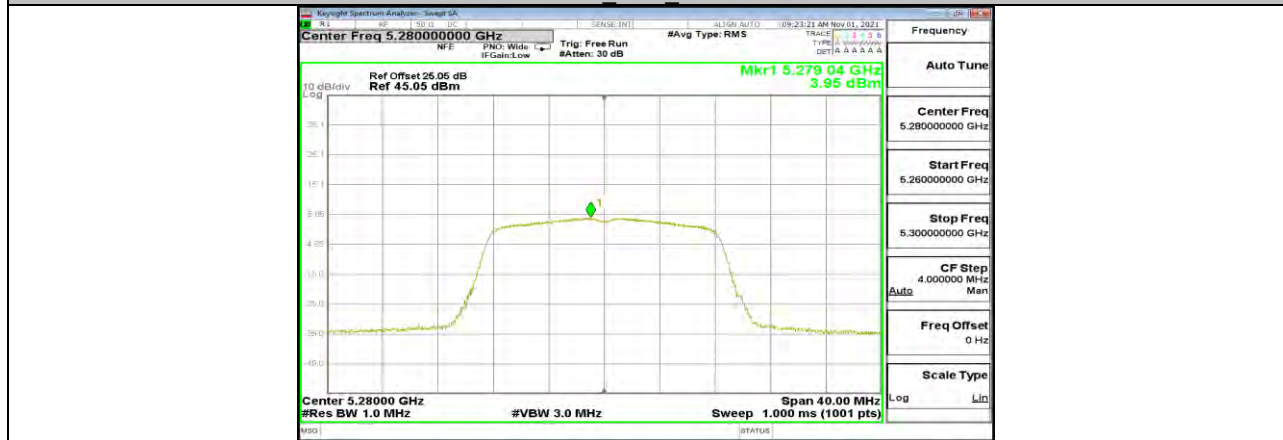
11A_Ant2_5240



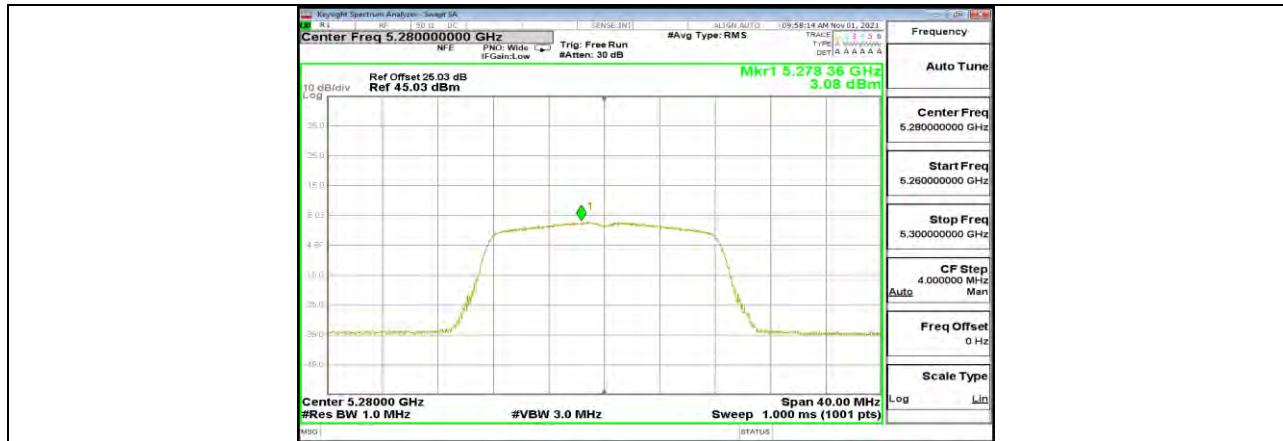
11A Ant1 5260



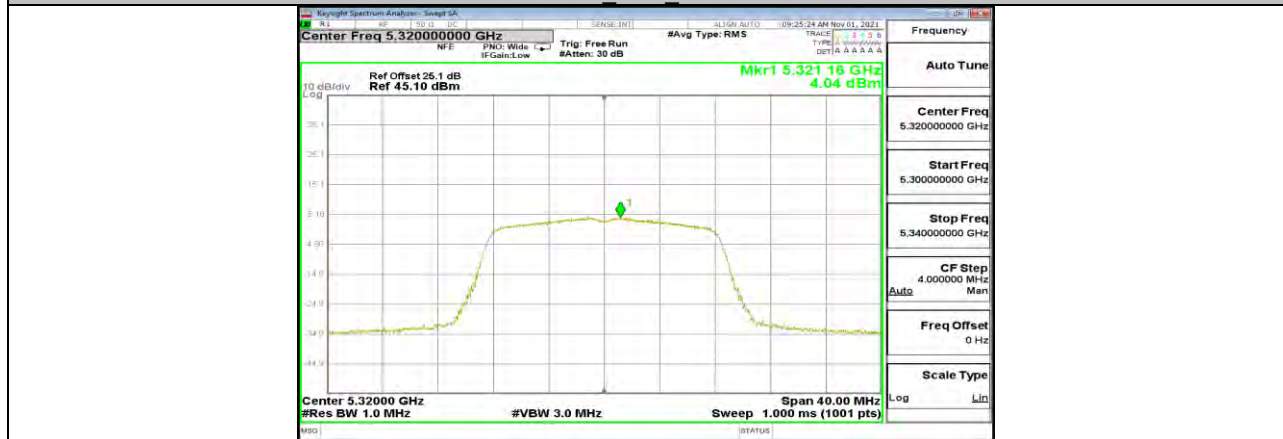
11A Ant2 5260



11A Ant1 5280



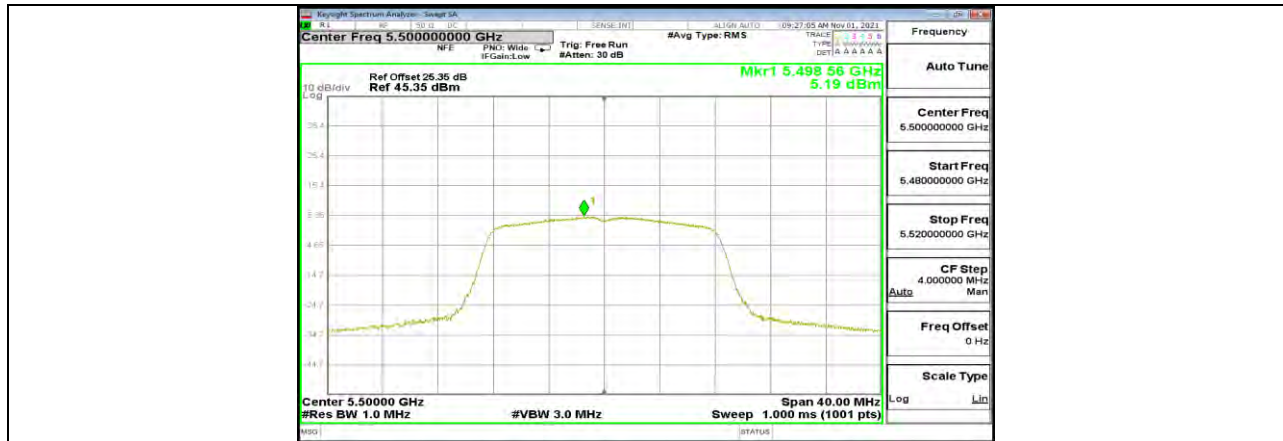
11A_Ant2_5280



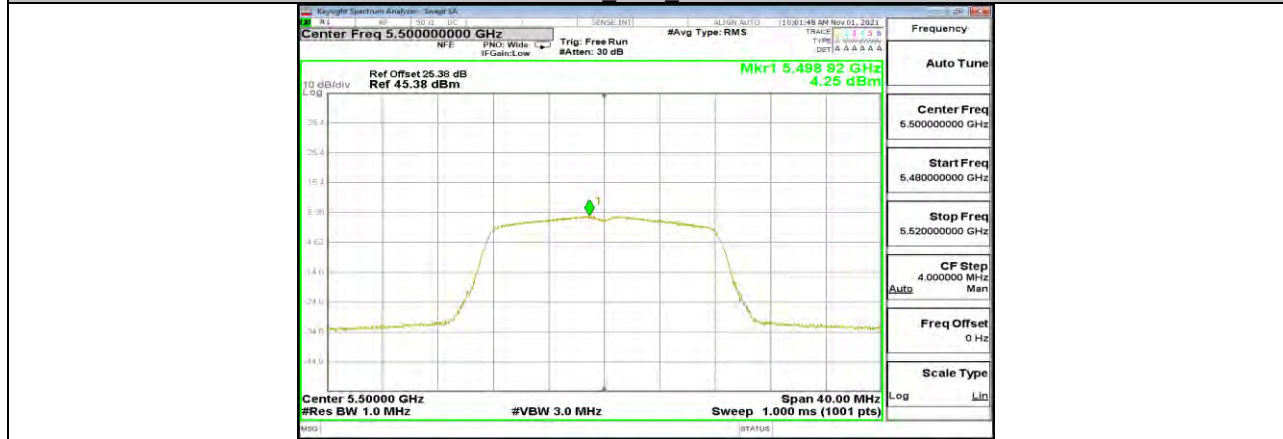
11A_Ant1_5320



11A_Ant2_5320



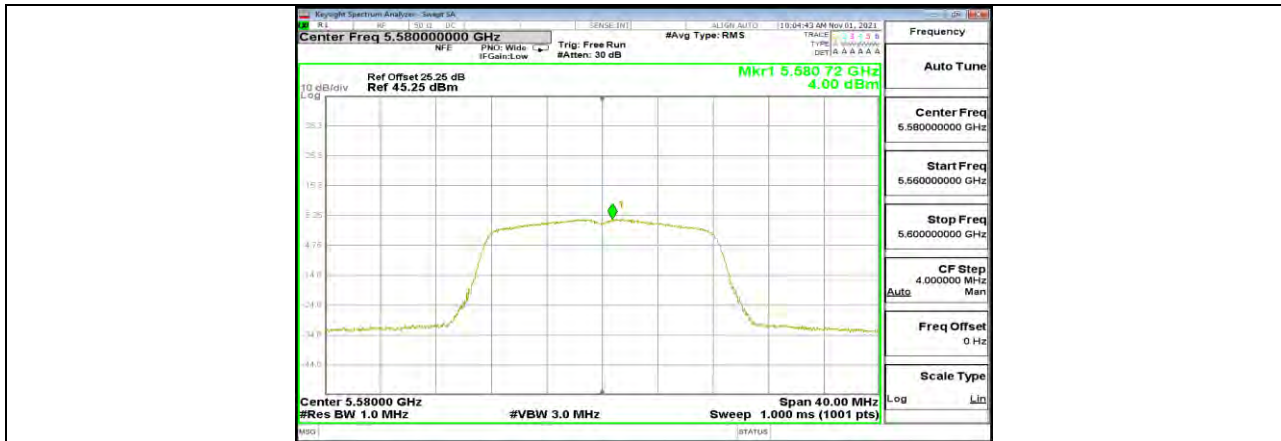
11A Ant1 5500



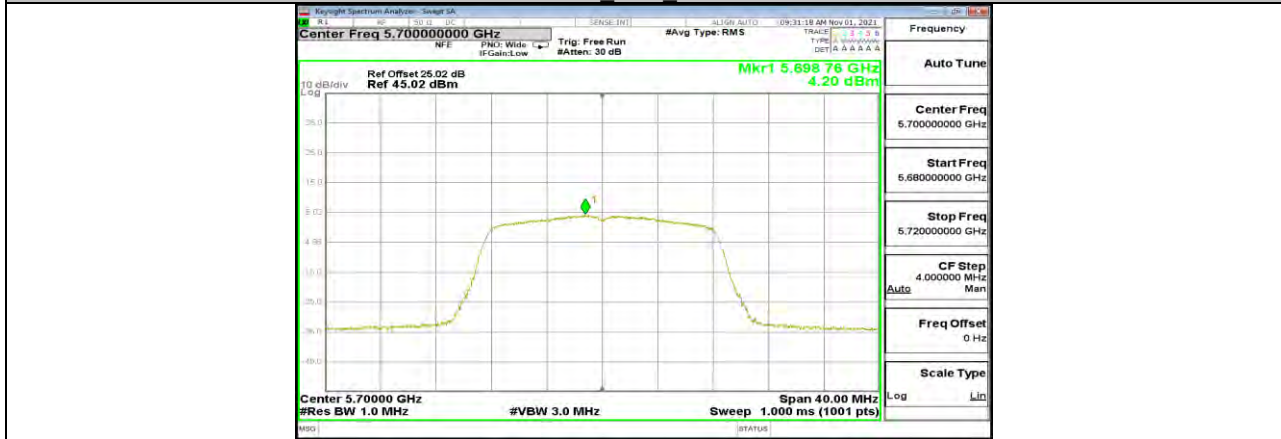
11A Ant2 5500



11A Ant1 5580



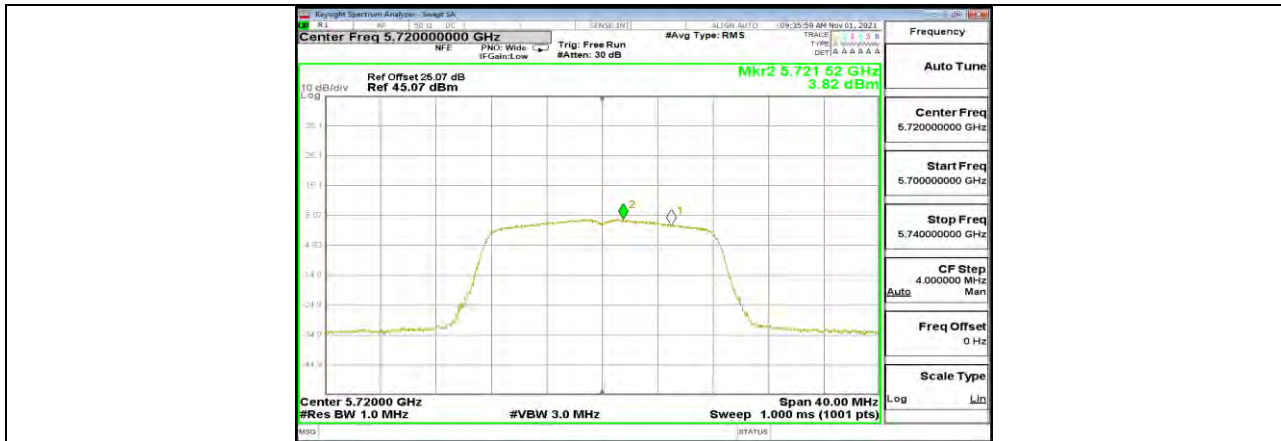
11A Ant2 5580



11A Ant1 5700



11A Ant2 5700



11A Ant1 5720 UNII-2C



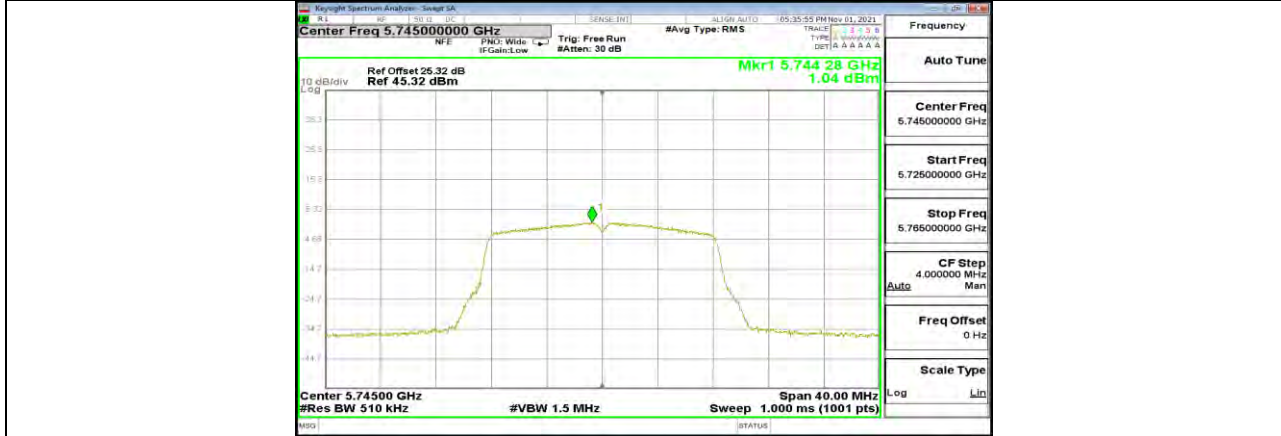
11A Ant2 5720 UNII-2C



11A Ant1 5720 UNII-3



11A Ant2 5720 UNII-3



11A Ant1 5745



11A Ant2 5745



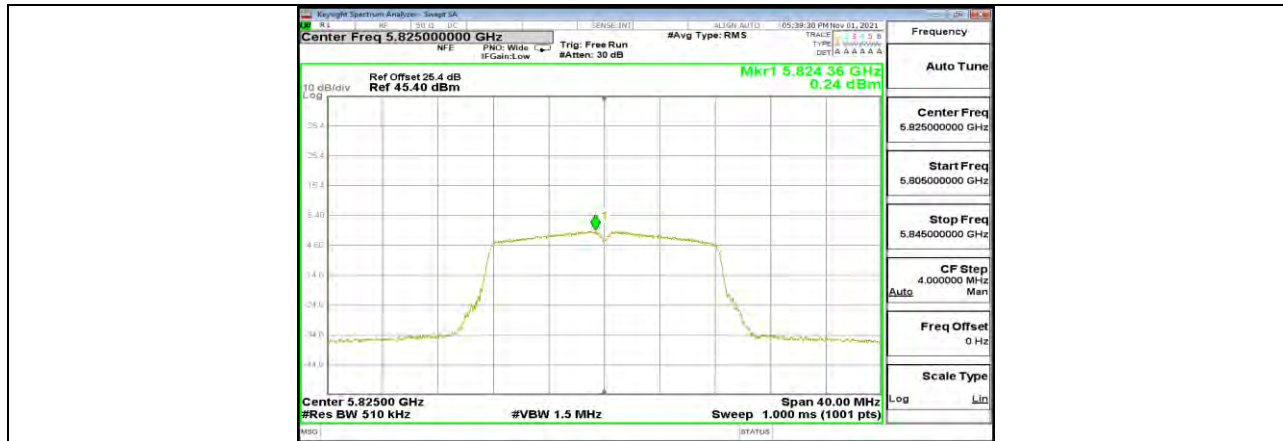
11A Ant1 5785



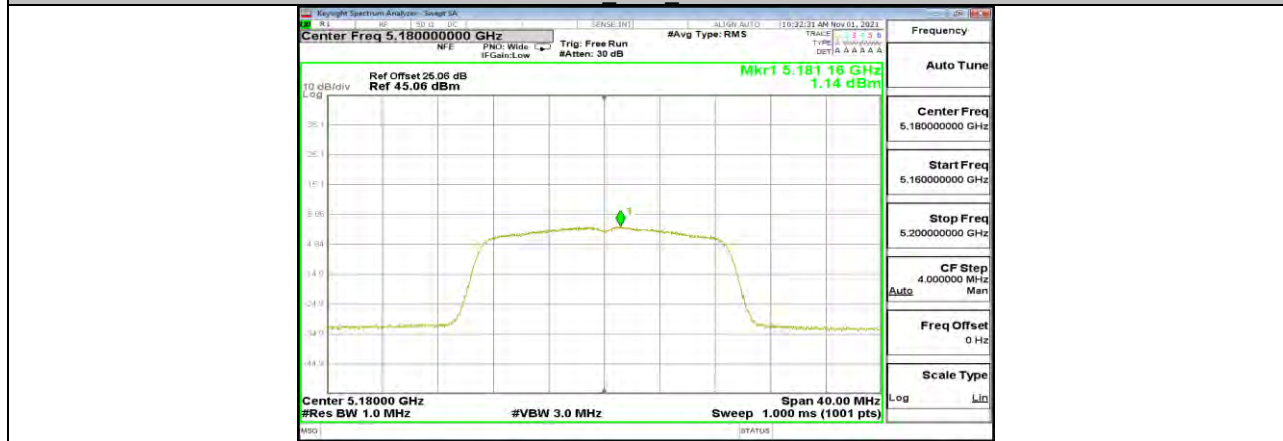
11A Ant2 5785



11A Ant1 5825



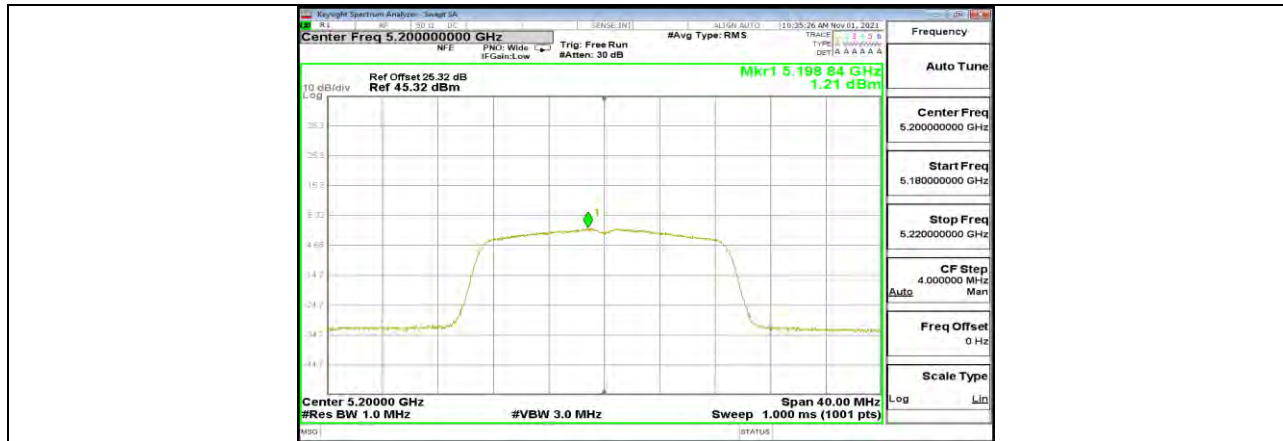
11A Ant2 5825



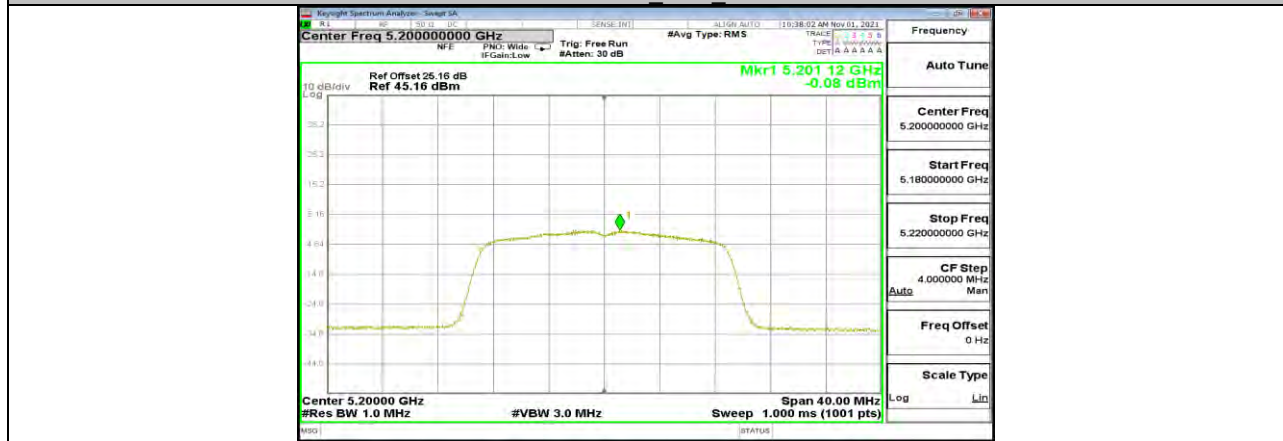
11N20MIMO Ant1 5180



11N20MIMO Ant2 5180



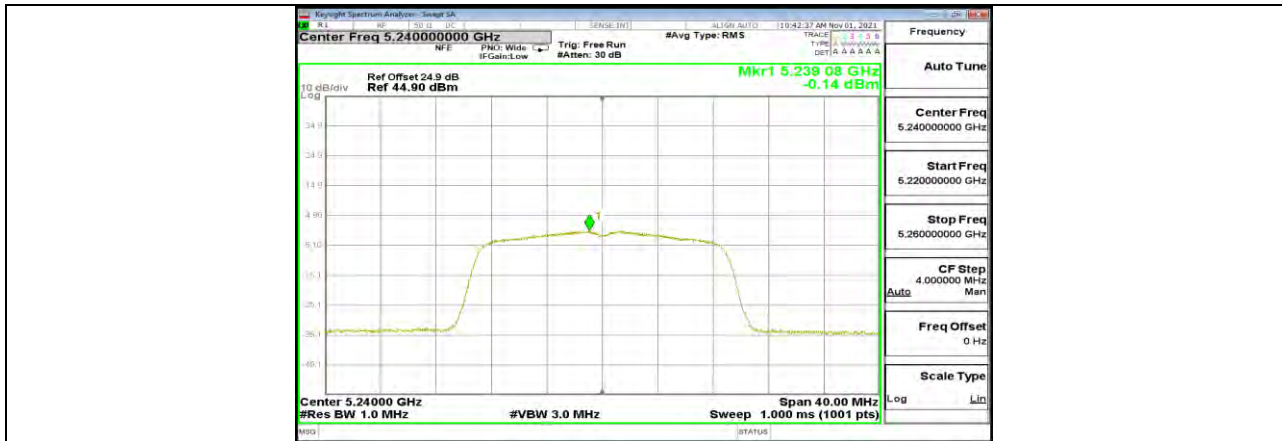
11N20MIMO Ant1 5200



11N20MIMO Ant2 5200



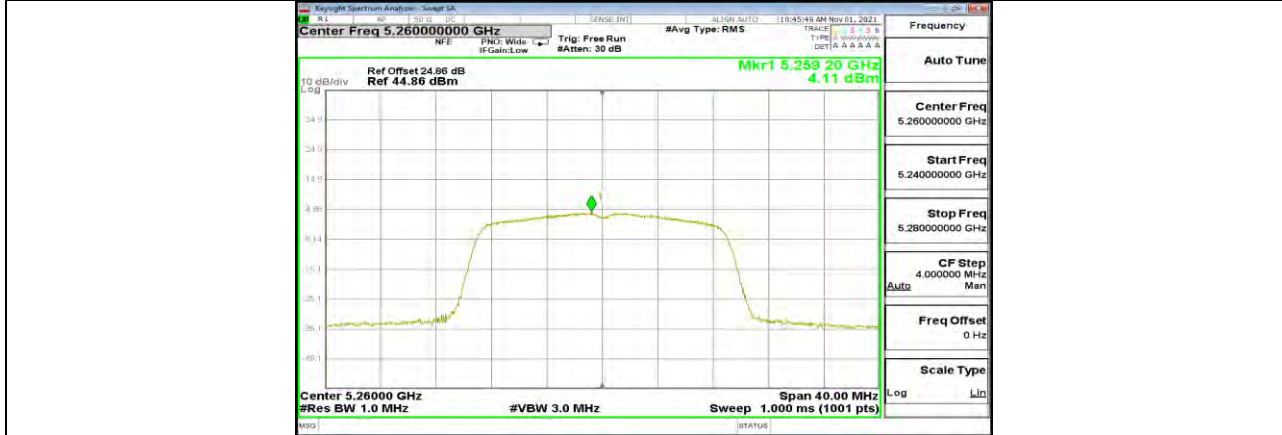
11N20MIMO Ant1 5240



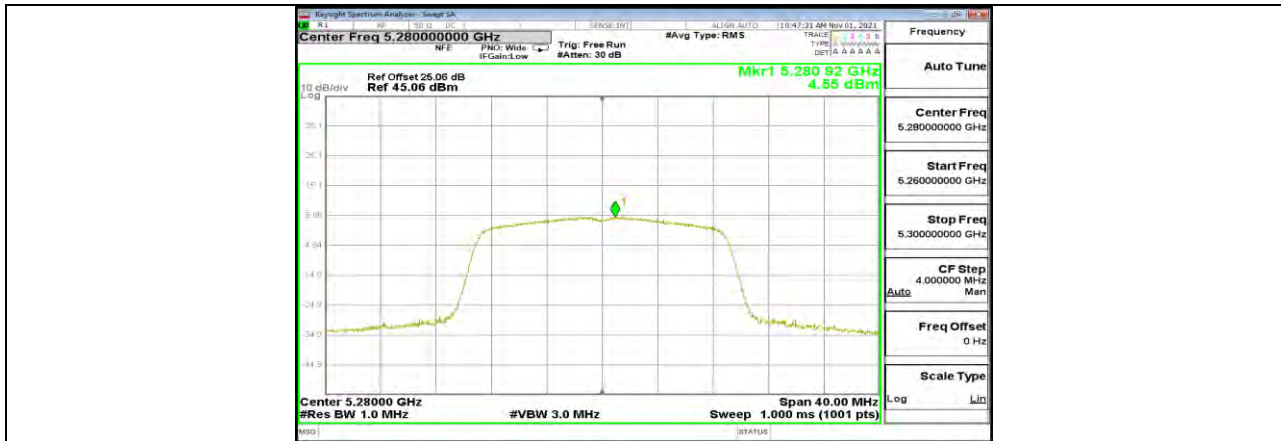
11N20MIMO Ant2 5240



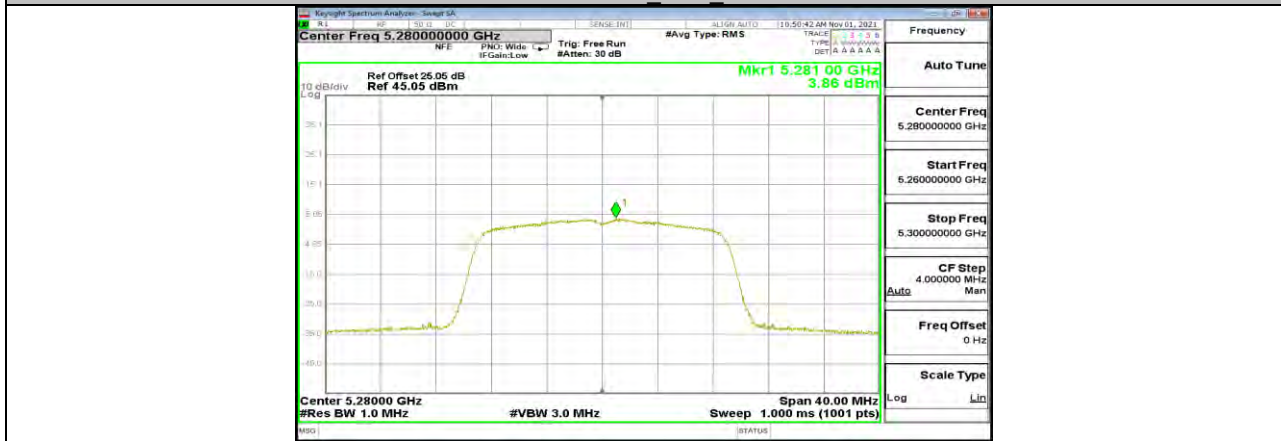
11N20MIMO Ant1 5260



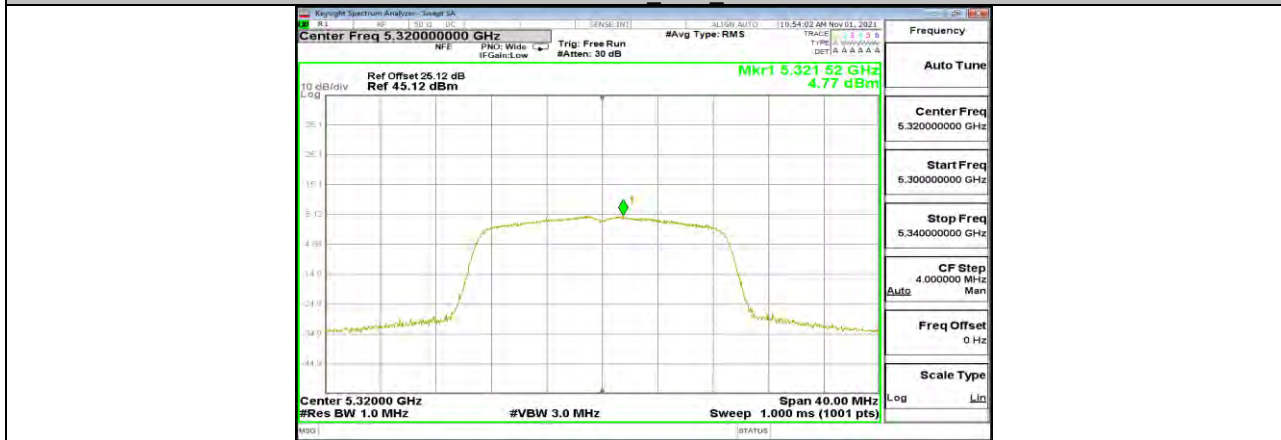
11N20MIMO Ant2 5260



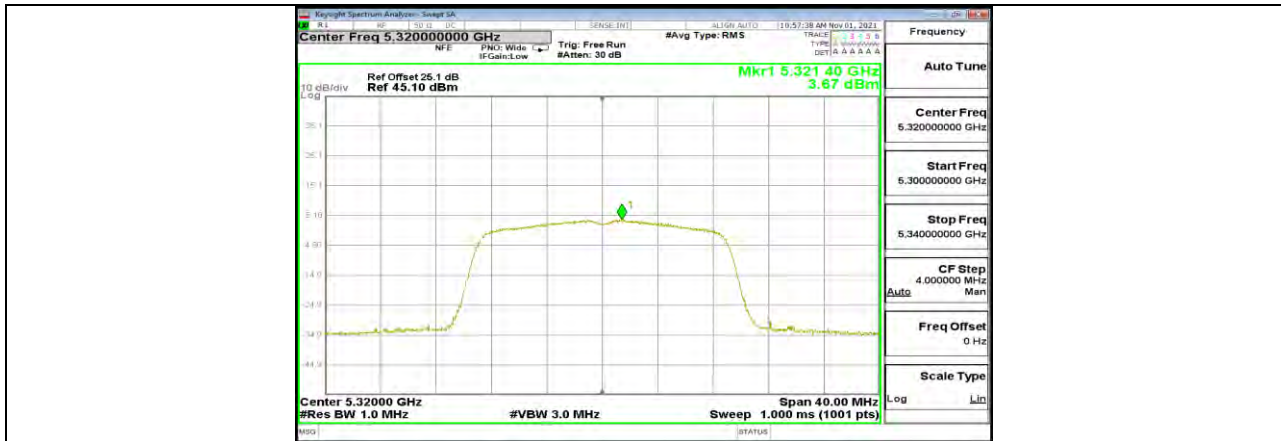
11N20MIMO Ant1 5280



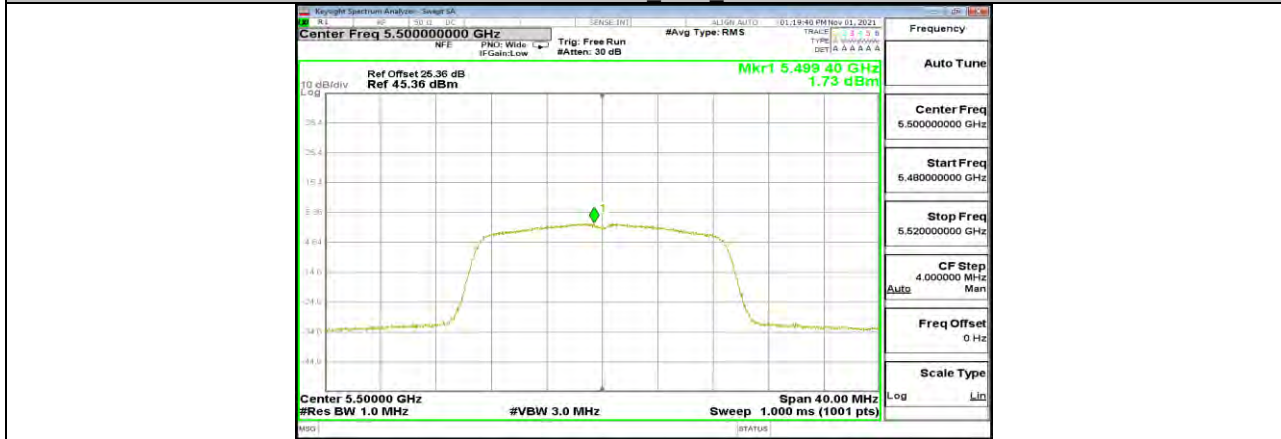
11N20MIMO Ant2 5280



11N20MIMO Ant1 5320



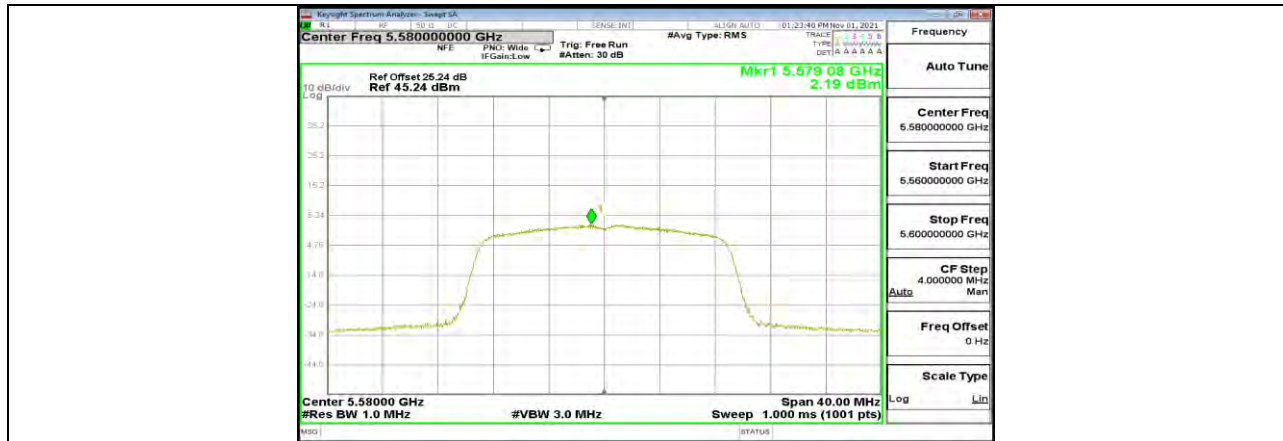
11N20MIMO Ant2 5320



11N20MIMO Ant1 5500



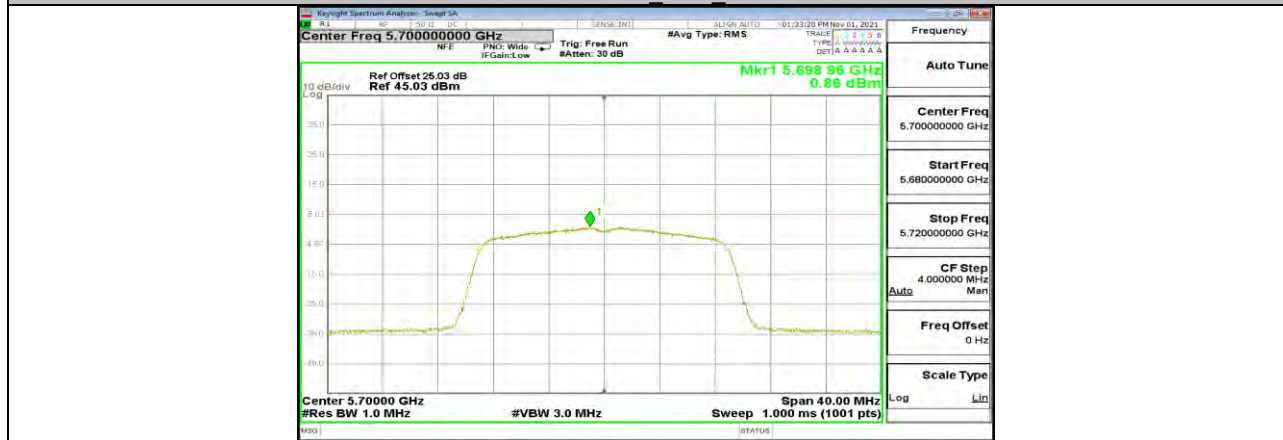
11N20MIMO Ant2 5500



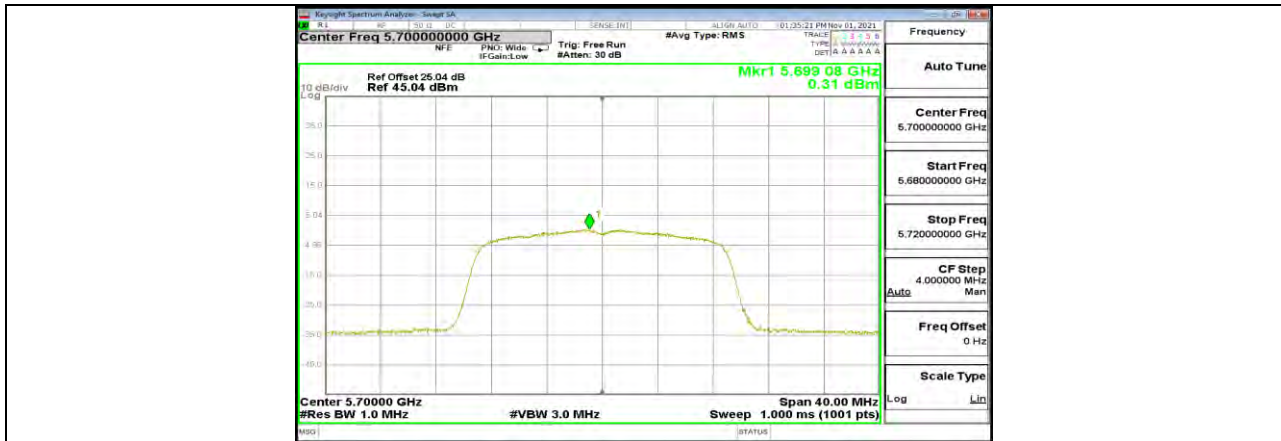
11N20MIMO Ant1 5580



11N20MIMO Ant2 5580



11N20MIMO Ant1 5700



11N20MIMO Ant2 5700



11N20MIMO Ant1 5720 UNII-2C



11N20MIMO Ant2 5720 UNII-2C



11N20MIMO Ant1 5720 UNII-3



11N20MIMO Ant2 5720 UNII-3



11N20MIMO Ant1 5745