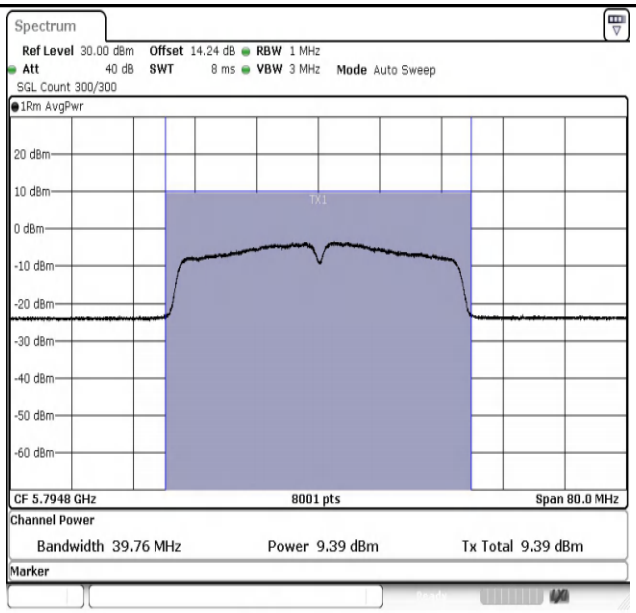
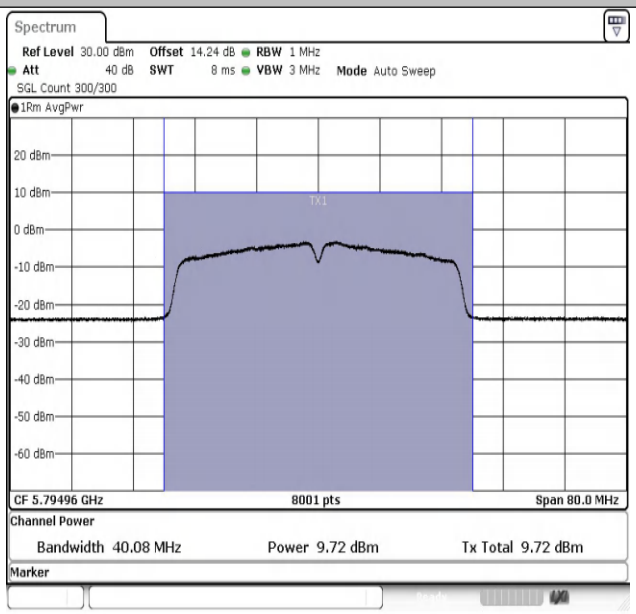


11N40MIMO-Ant1-5795-PASS



11N40MIMO-Ant2-5795-PASS

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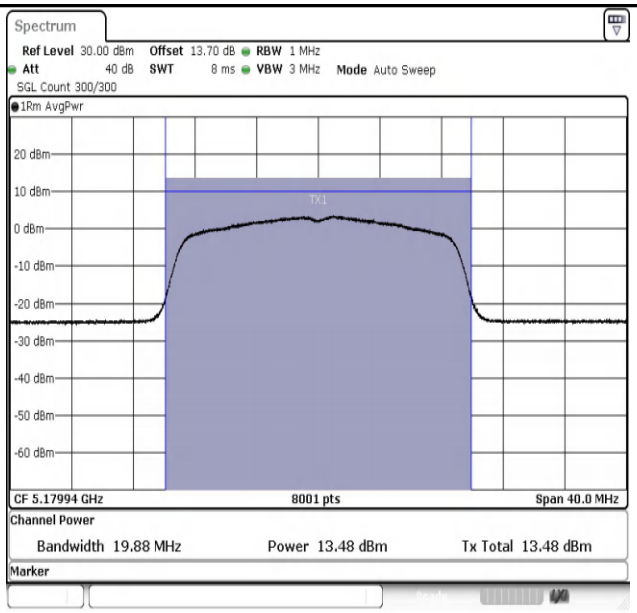

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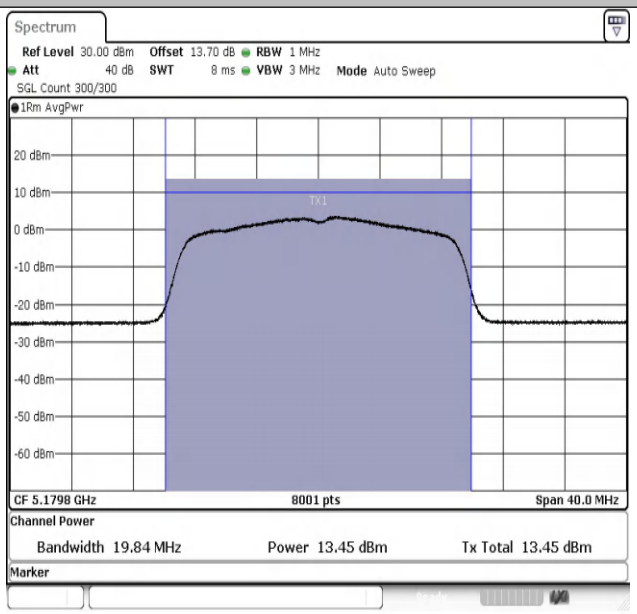

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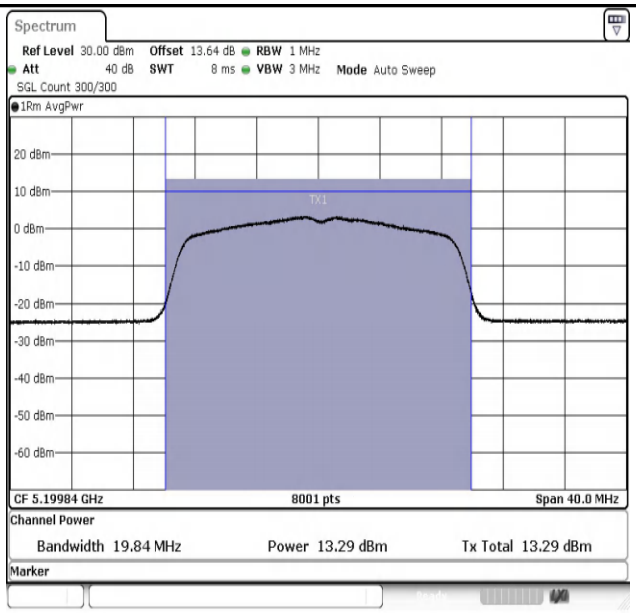

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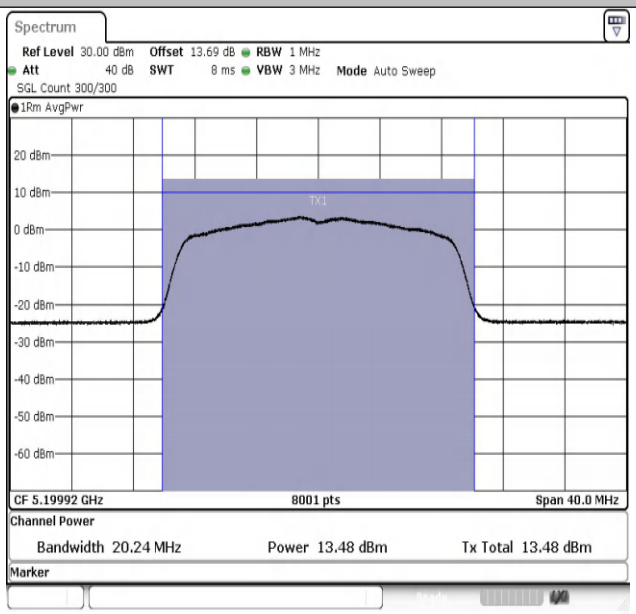

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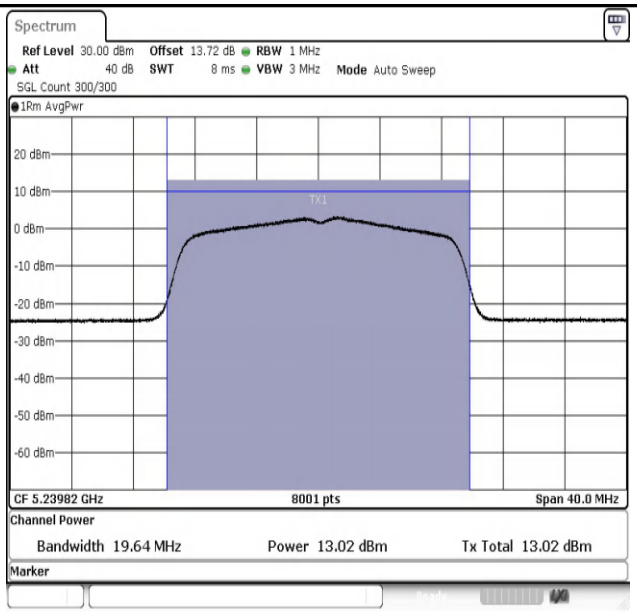

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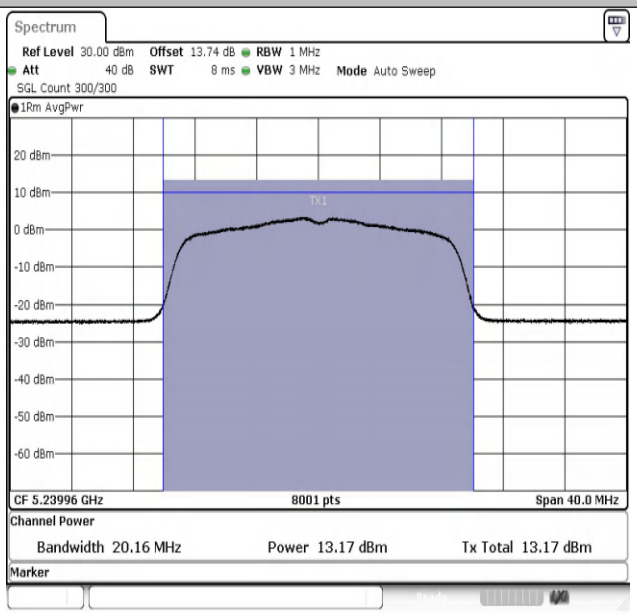

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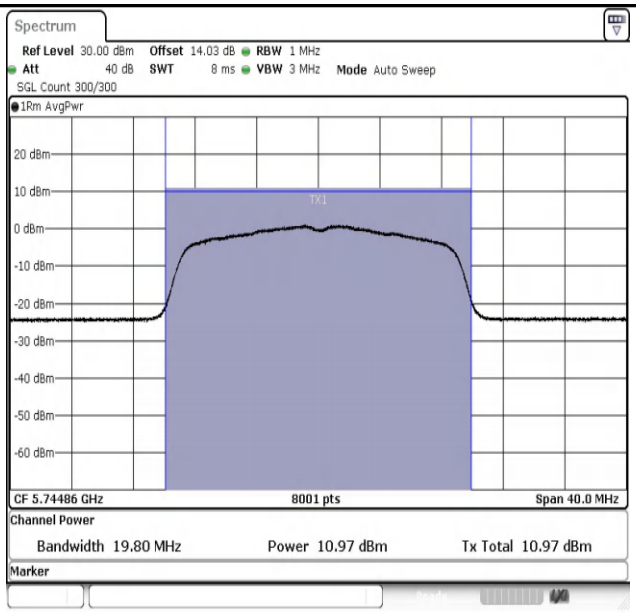

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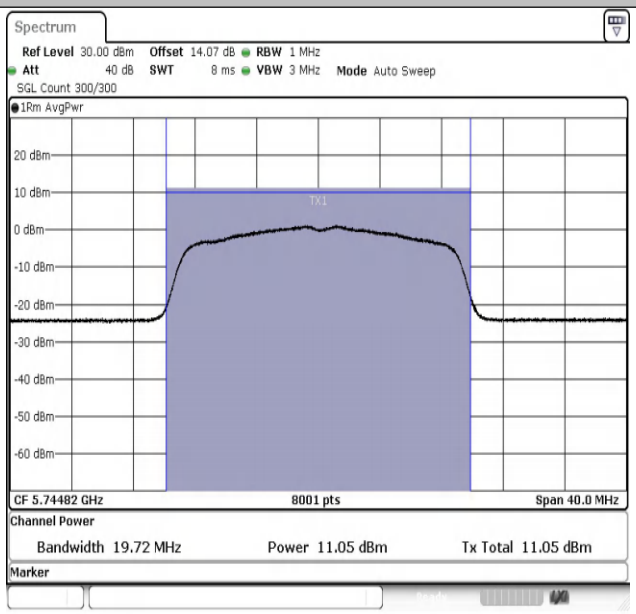

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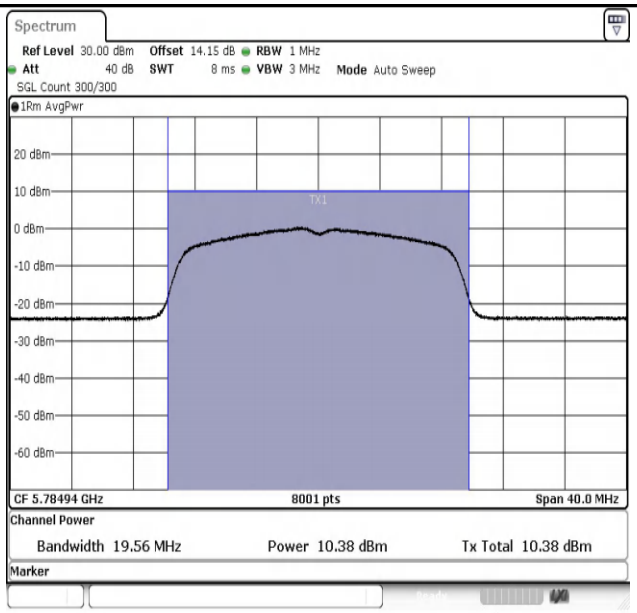

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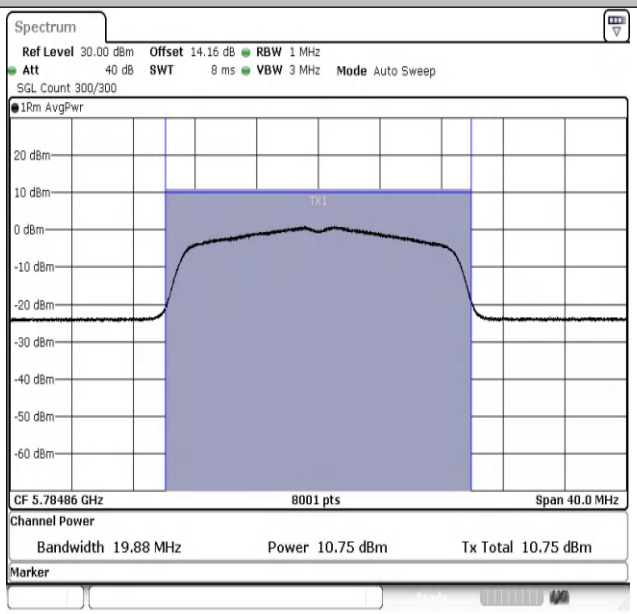

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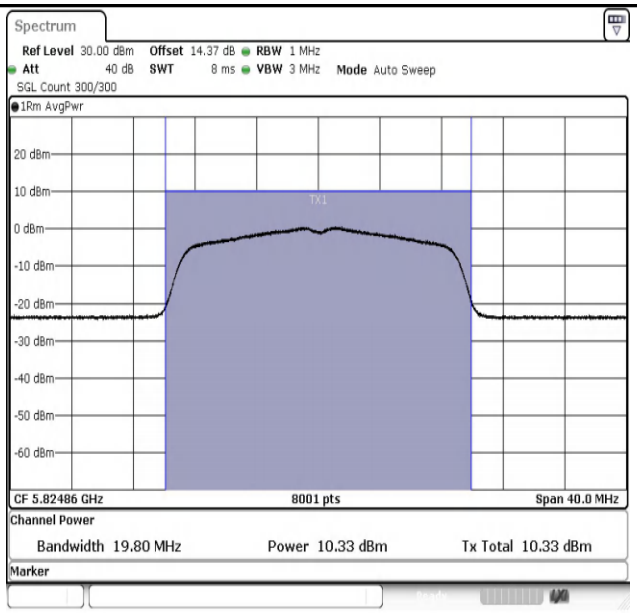

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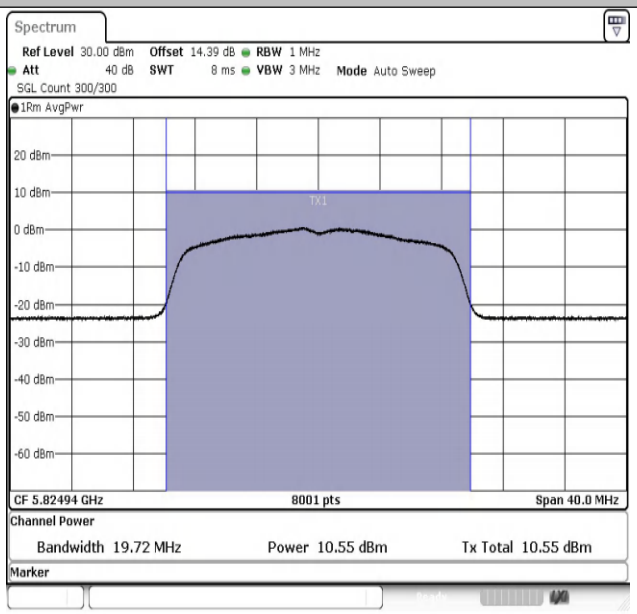

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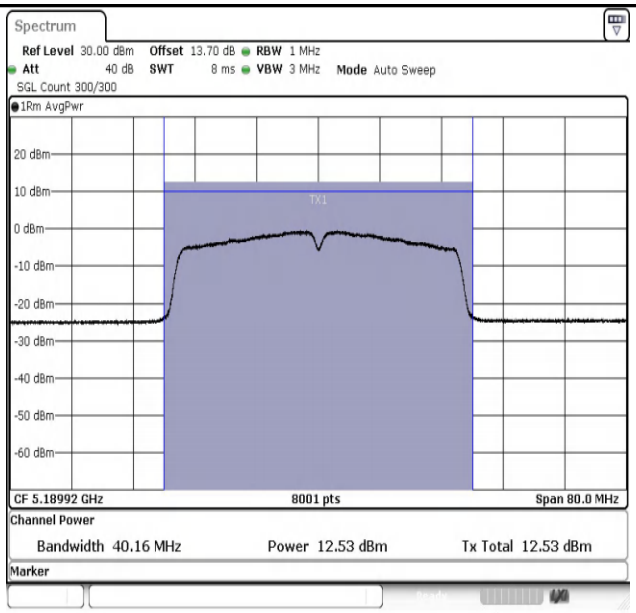

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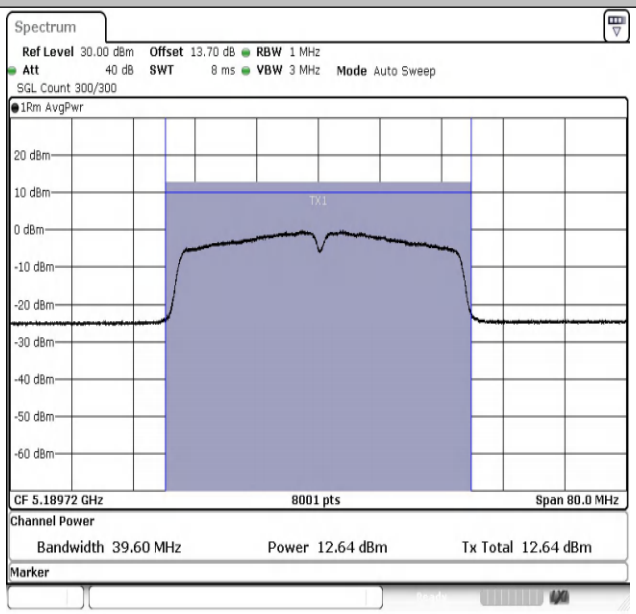

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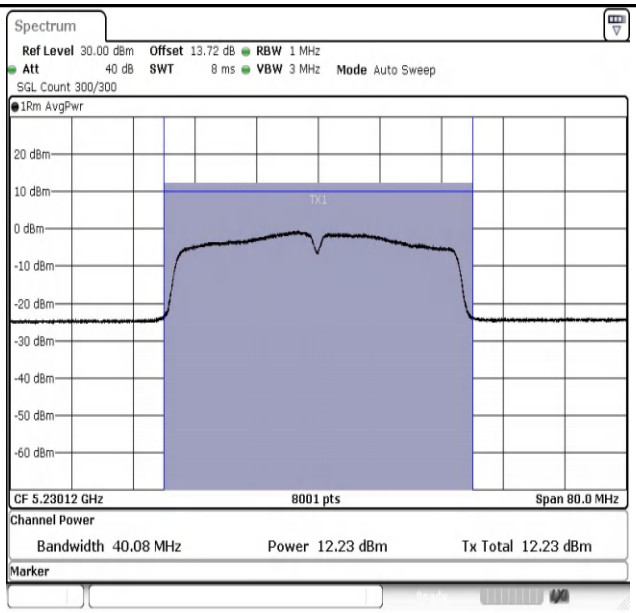

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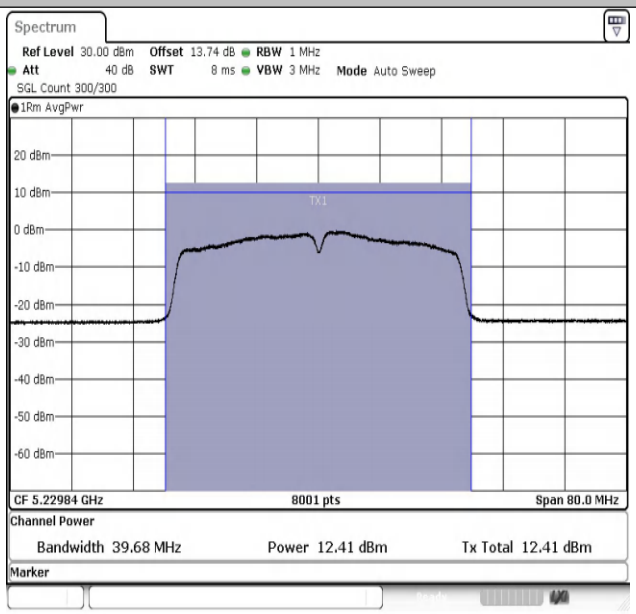

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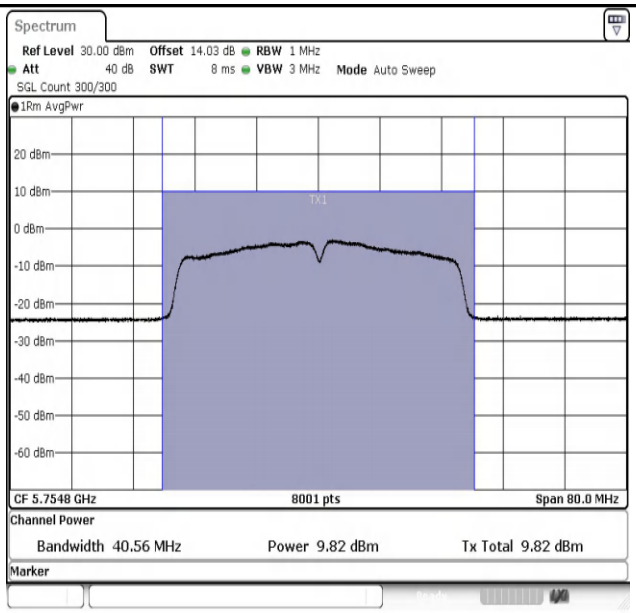

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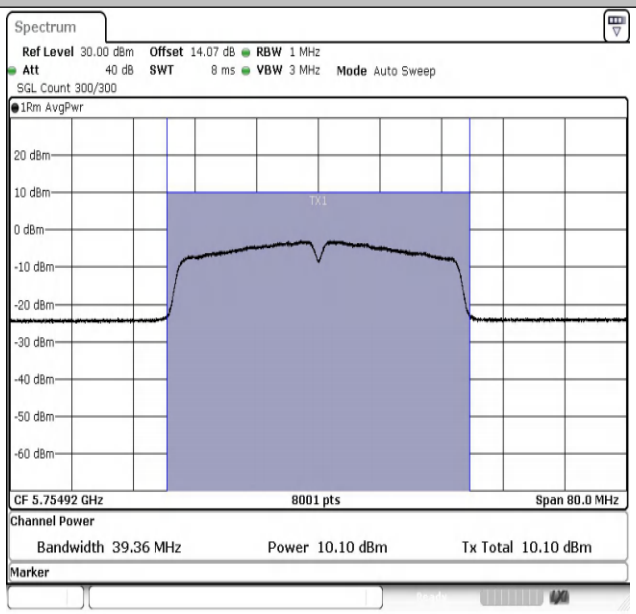

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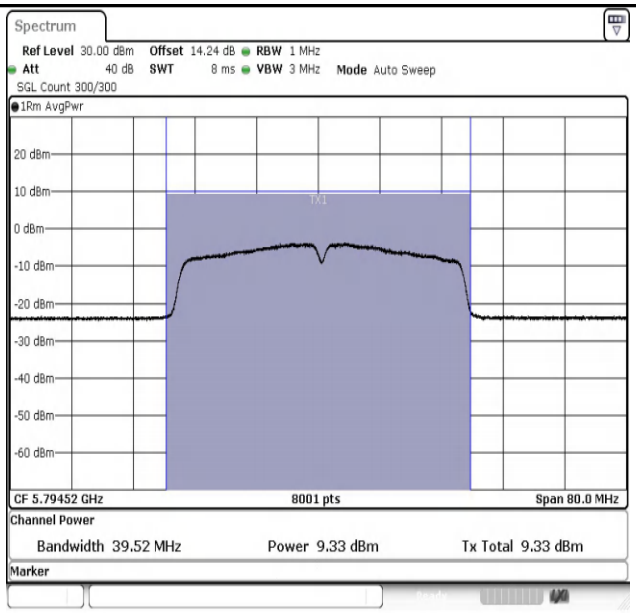

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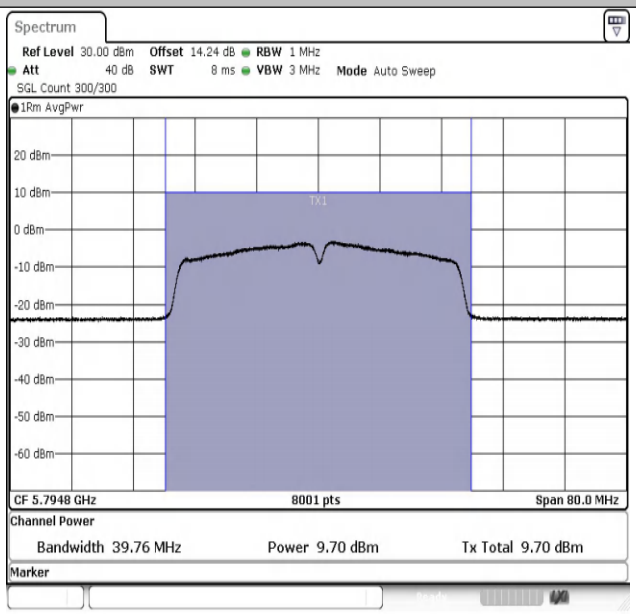

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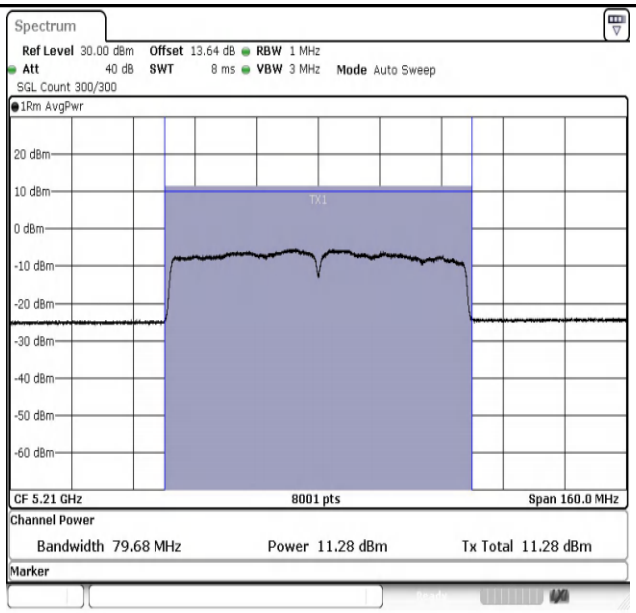

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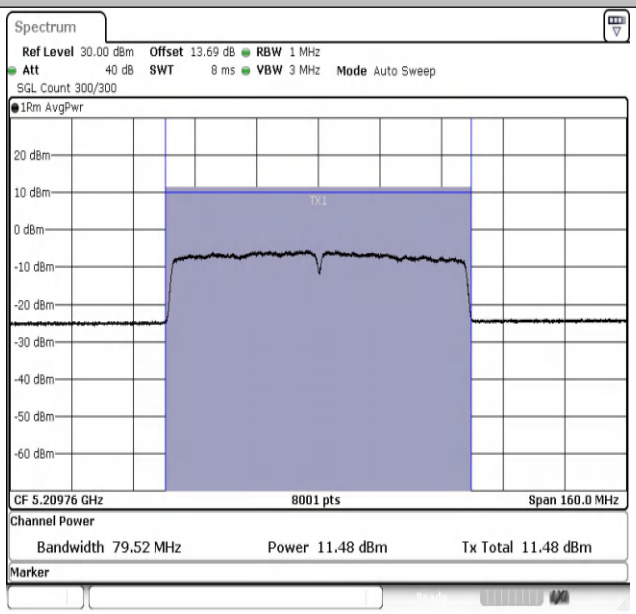

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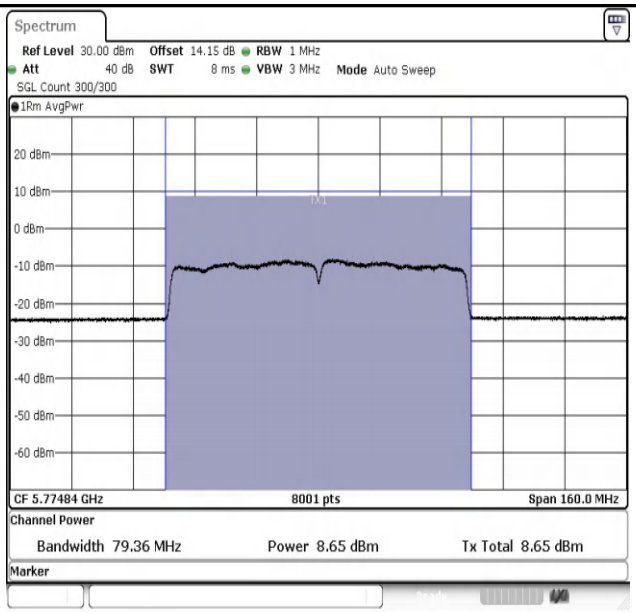

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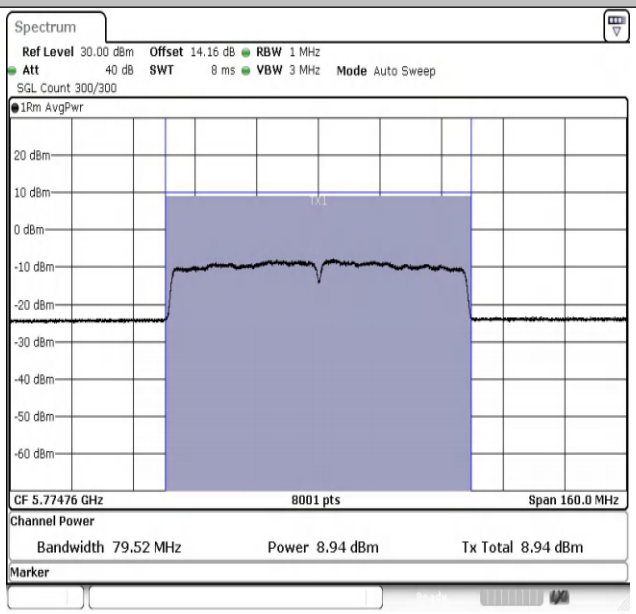

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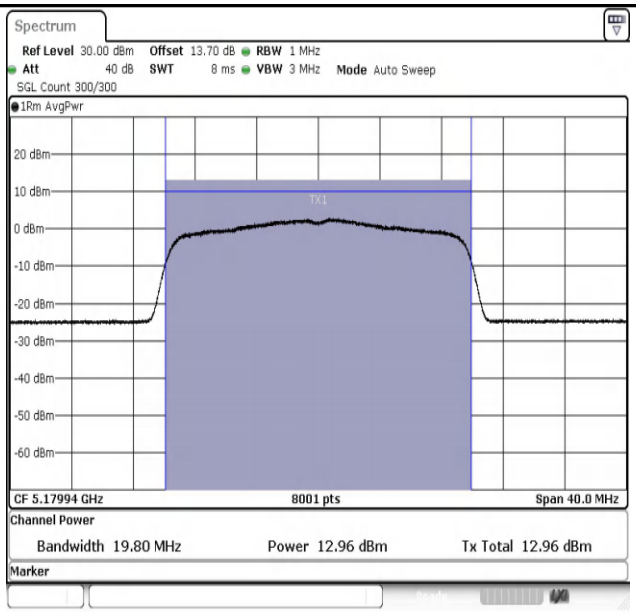

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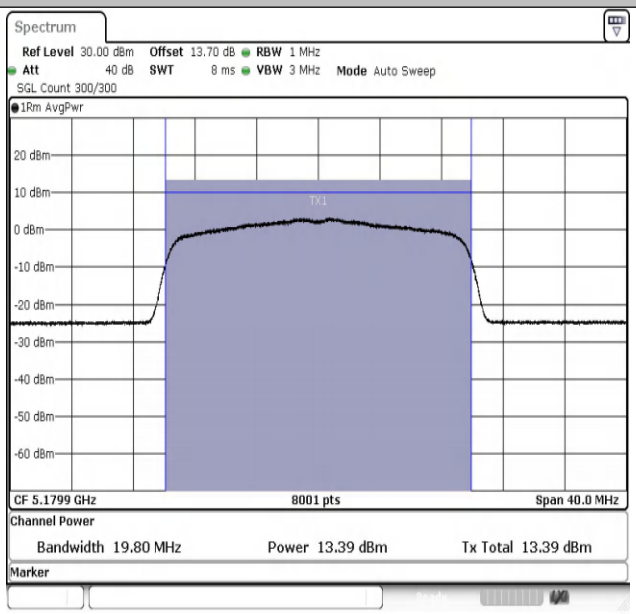

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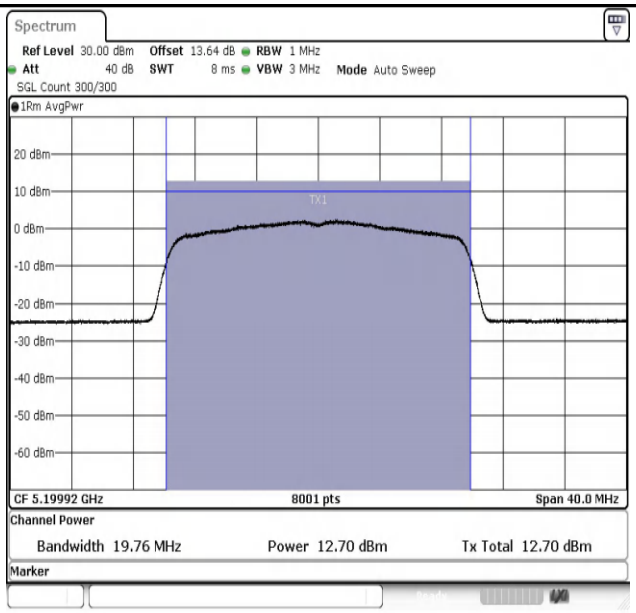

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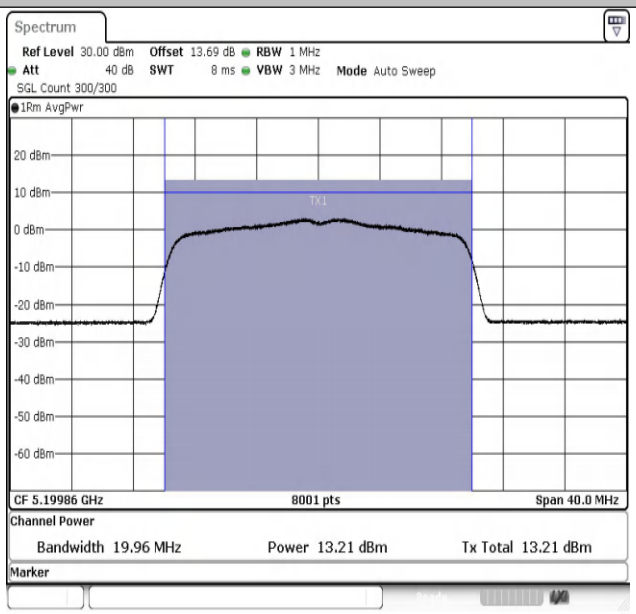

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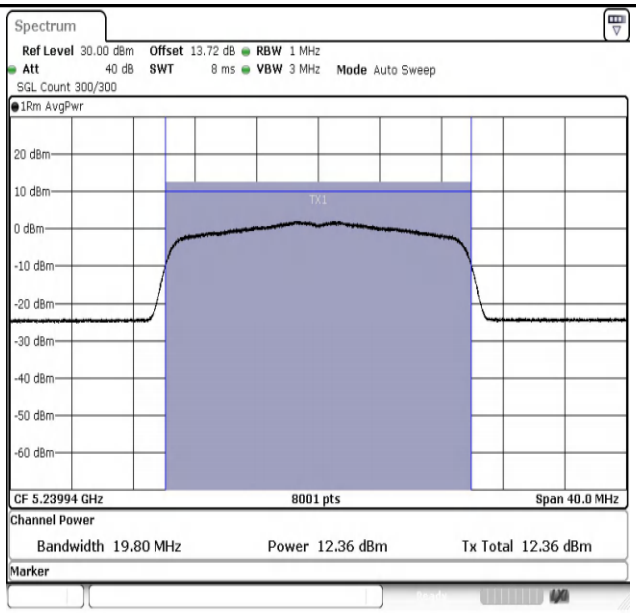

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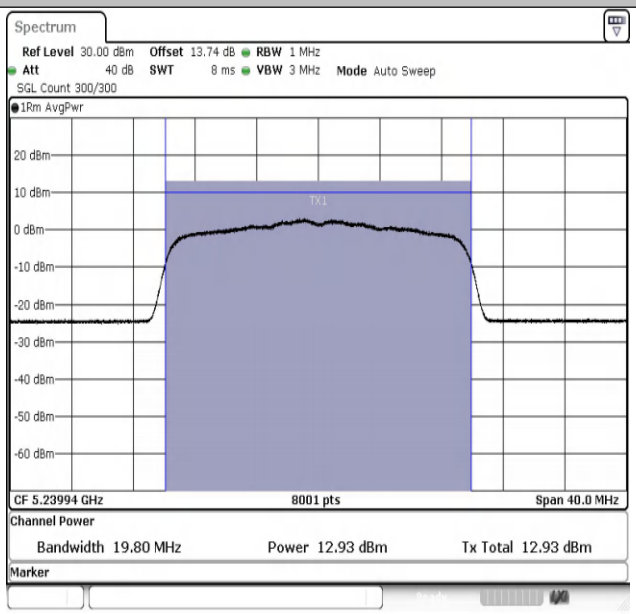

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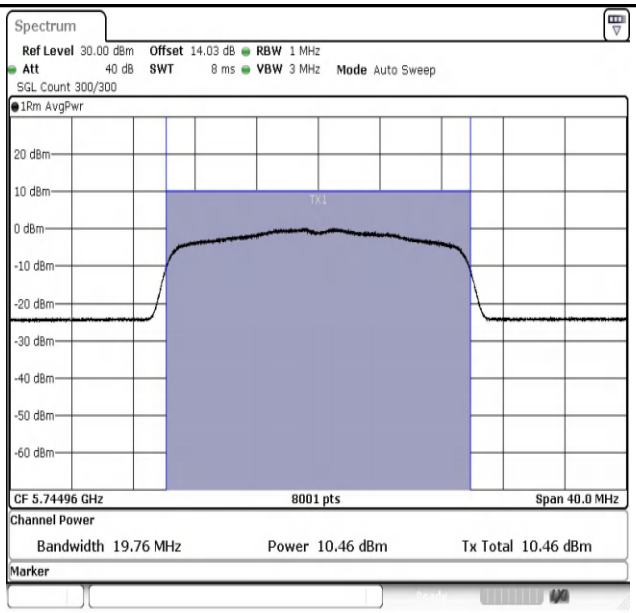

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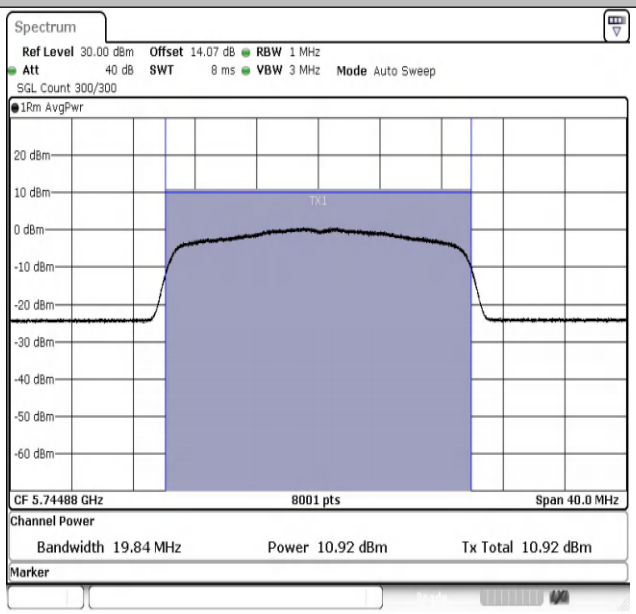

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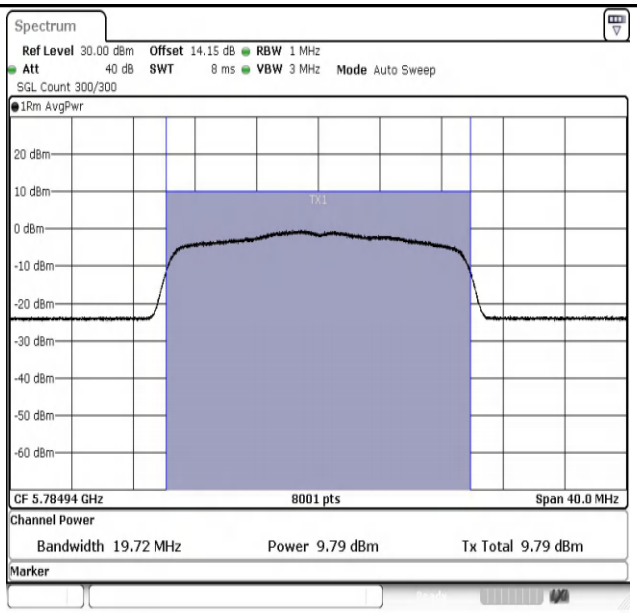

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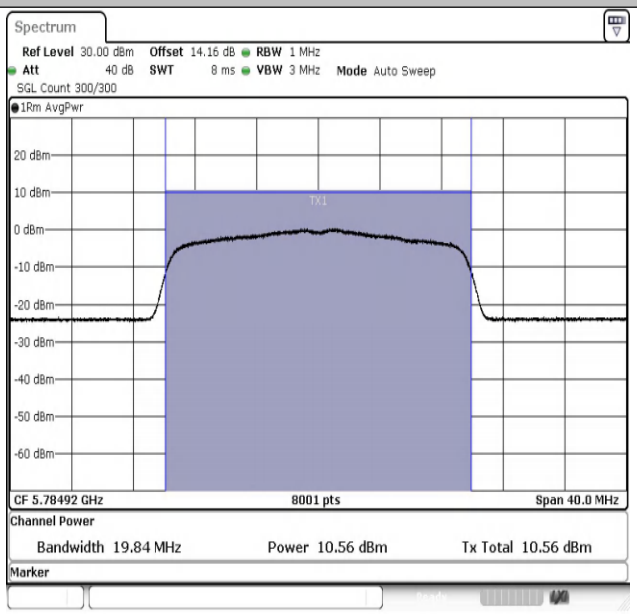

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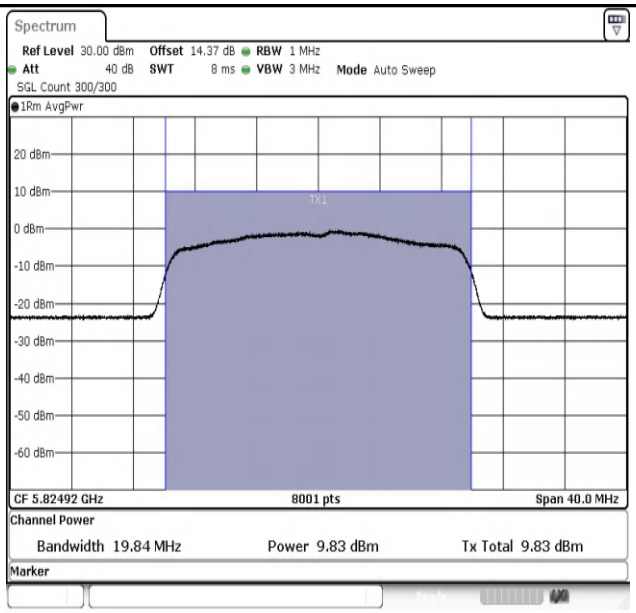

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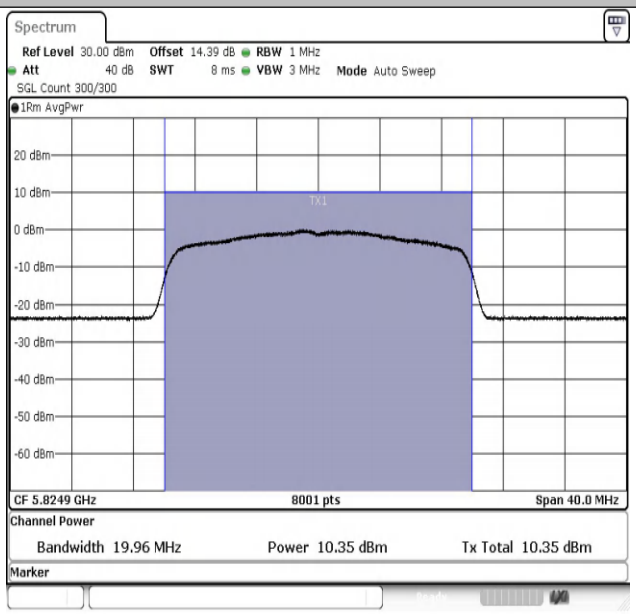

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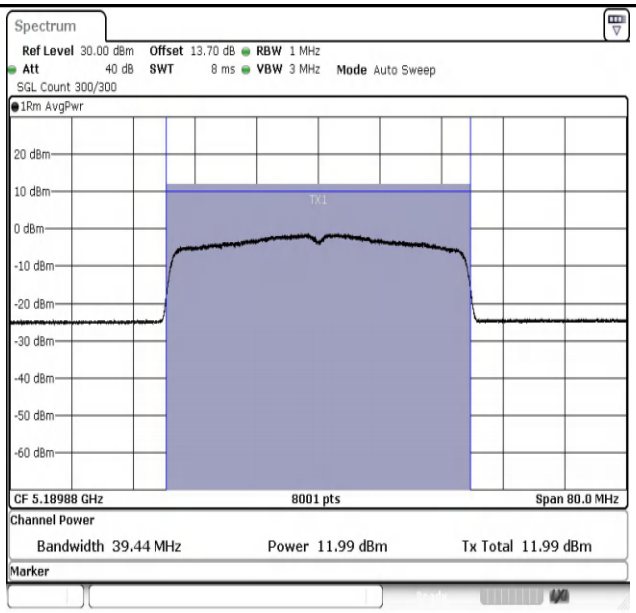

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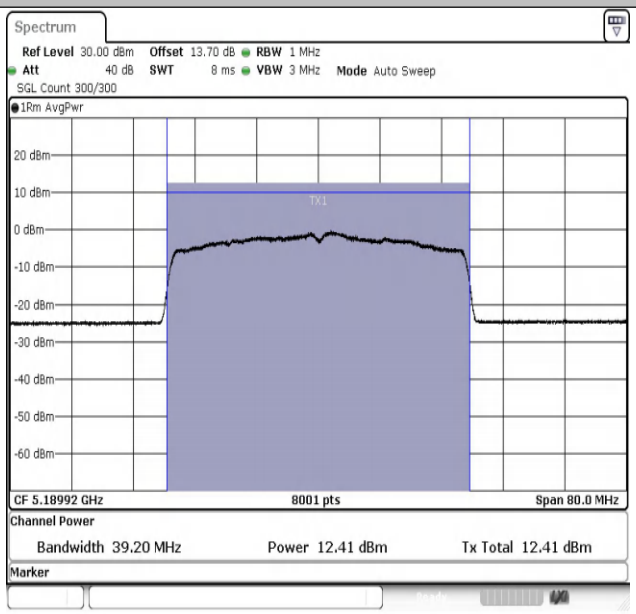

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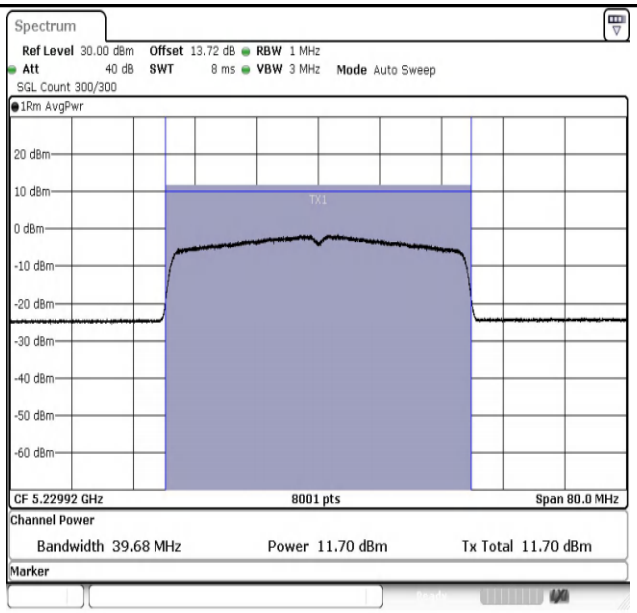

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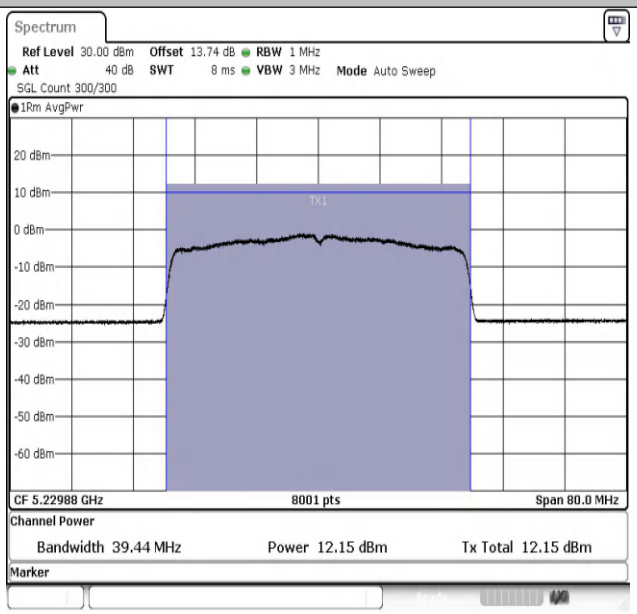

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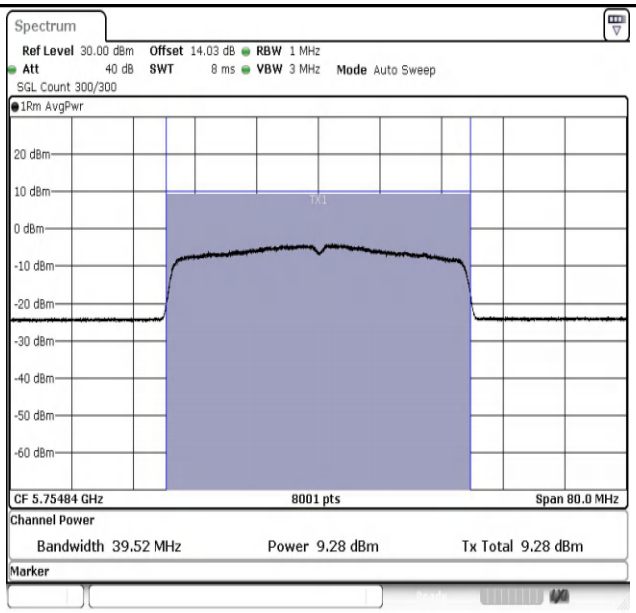

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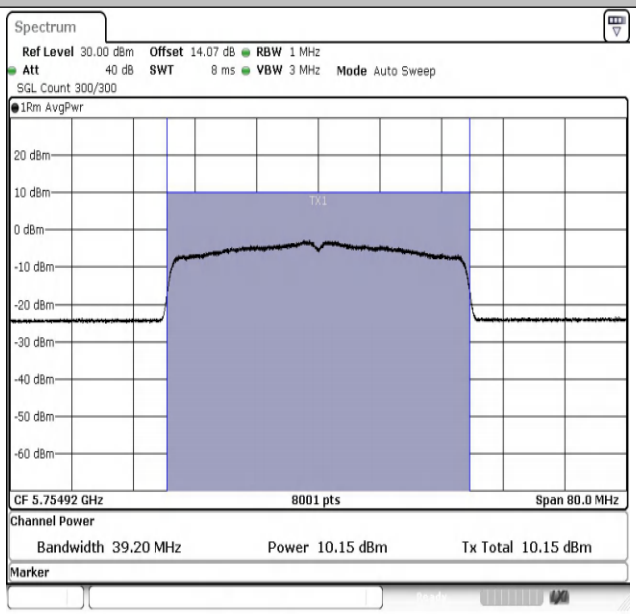

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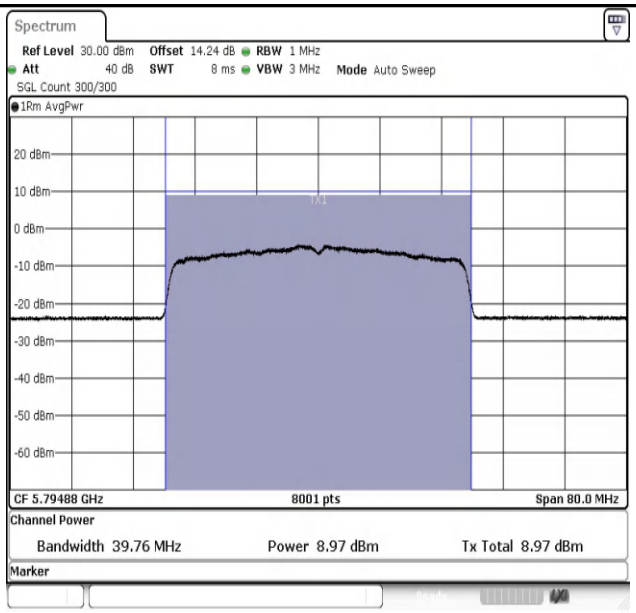

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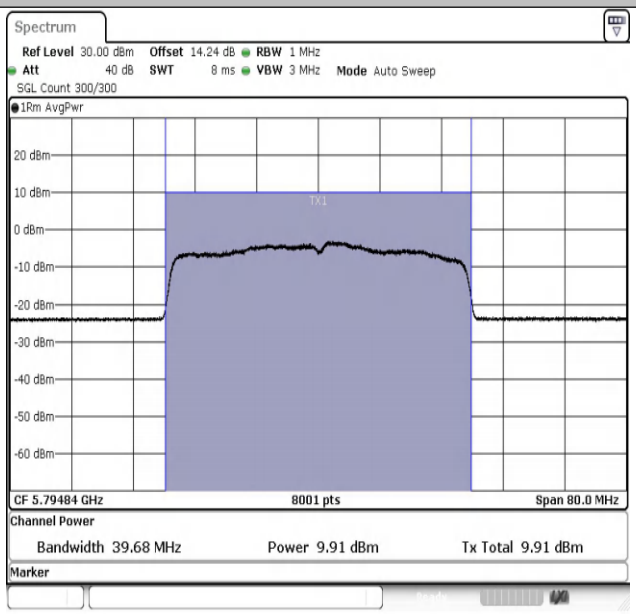

11AX40MIMO-Ant2-5795-PASS

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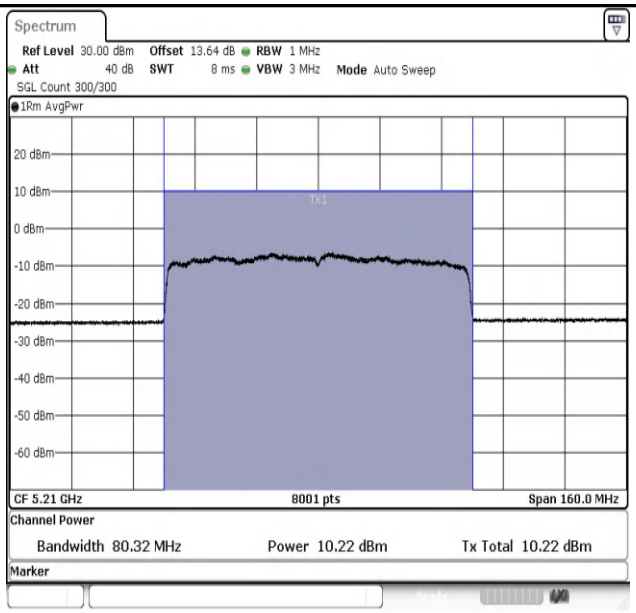
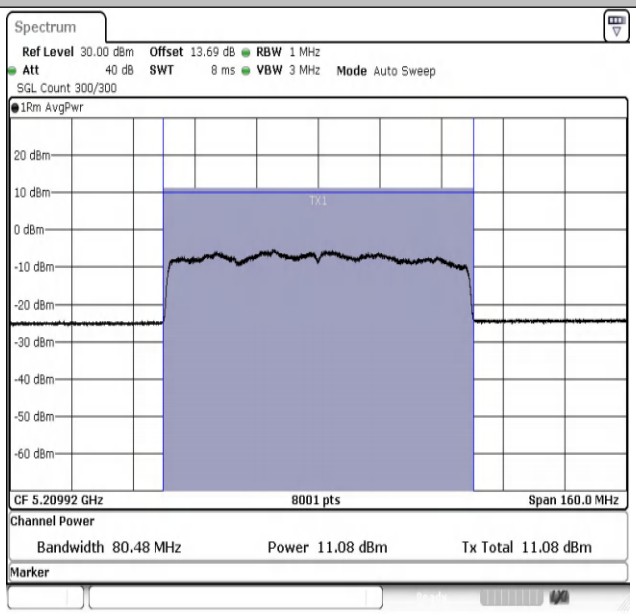
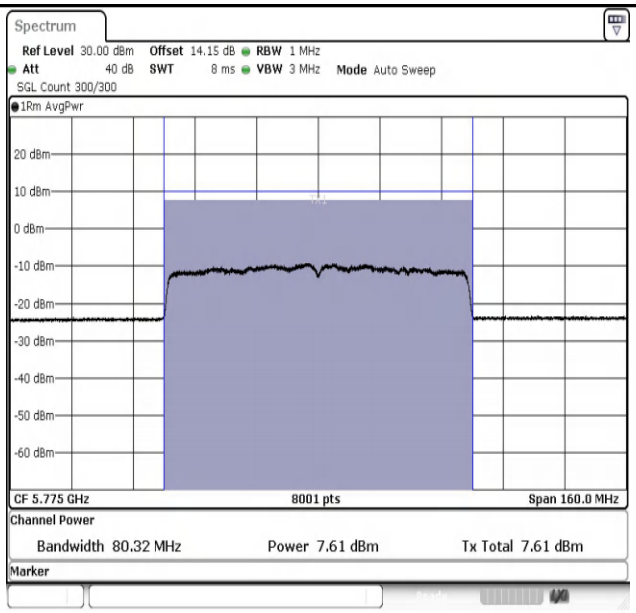


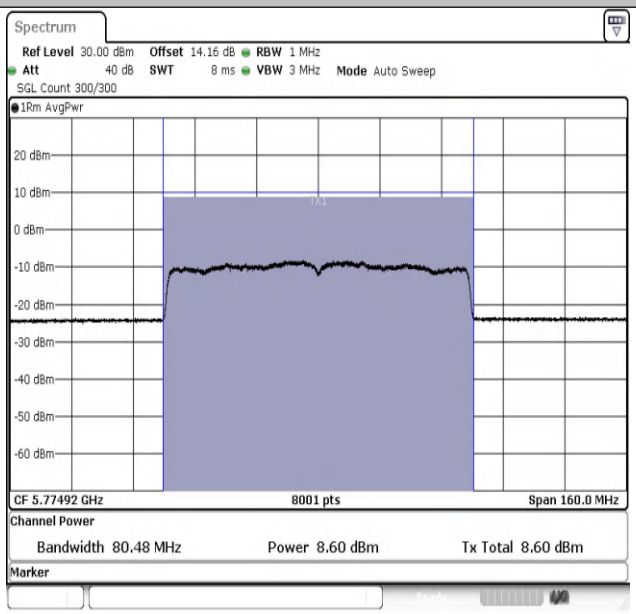
11AX80MIMO-Ant1-5210-PASS



11AX80MIMO-Ant2-5210-PASS



11AX80MIMO-Ant1-5775-PASS



11AX80MIMO-Ant2-5775-PASS

Appendix D: Maximum power spectral density

Test Result-B1

TestMode	Antenna	Frequency [MHz]	Reading Result [dBm/MHz]	DC Factor [dB]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	3.67	1.4	5.07	≤11.00	PASS
11A	Ant2	5180	1.96	1.38	3.34	≤11.00	PASS
11A	Ant1	5200	2.65	1.4	4.05	≤11.00	PASS
11A	Ant2	5200	3.74	1.4	5.14	≤11.00	PASS
11A	Ant1	5240	3.30	1.4	4.70	≤11.00	PASS
11A	Ant2	5240	3.11	1.38	4.49	≤11.00	PASS
11N20MIMO	Ant1	5180	3.30	1.46	4.76	≤11.00	PASS
11N20MIMO	Ant2	5180	2.55	1.46	4.01	≤11.00	PASS
11N20MIMO	total	5180	---	---	7.41	≤11.00	PASS
11N20MIMO	Ant1	5200	3.11	1.48	4.59	≤11.00	PASS
11N20MIMO	Ant2	5200	3.71	1.48	5.19	≤11.00	PASS
11N20MIMO	total	5200	---	---	7.91	≤11.00	PASS
11N20MIMO	Ant1	5240	3.24	1.46	4.70	≤11.00	PASS
11N20MIMO	Ant2	5240	2.37	1.46	3.83	≤11.00	PASS
11N20MIMO	total	5240	---	---	7.30	≤11.00	PASS
11N40MIMO	Ant1	5190	0.07	2.58	2.65	≤11.00	PASS
11N40MIMO	Ant2	5190	-1.45	2.58	1.13	≤11.00	PASS
11N40MIMO	total	5190	---	---	4.97	≤11.00	PASS
11N40MIMO	Ant1	5230	-0.85	2.58	1.73	≤11.00	PASS
11N40MIMO	Ant2	5230	-0.17	2.63	2.46	≤11.00	PASS
11N40MIMO	total	5230	---	---	5.12	≤11.00	PASS
11AC20MIMO	Ant1	5180	3.52	1.4	4.92	≤11.00	PASS
11AC20MIMO	Ant2	5180	3.13	1.59	4.72	≤11.00	PASS
11AC20MIMO	total	5180	---	---	7.83	≤11.00	PASS
11AC20MIMO	Ant1	5200	2.73	1.4	4.13	≤11.00	PASS
11AC20MIMO	Ant2	5200	3.46	1.49	4.95	≤11.00	PASS
11AC20MIMO	total	5200	---	---	7.57	≤11.00	PASS
11AC20MIMO	Ant1	5240	2.72	1.45	4.17	≤11.00	PASS
11AC20MIMO	Ant2	5240	3.53	1.45	4.98	≤11.00	PASS
11AC20MIMO	total	5240	---	---	7.60	≤11.00	PASS
11AC40MIMO	Ant1	5190	0.23	2.52	2.75	≤11.00	PASS
11AC40MIMO	Ant2	5190	-1.28	2.34	1.06	≤11.00	PASS
11AC40MIMO	total	5190	---	---	5.00	≤11.00	PASS
11AC40MIMO	Ant1	5230	-0.70	2.55	1.85	≤11.00	PASS
11AC40MIMO	Ant2	5230	-0.71	2.59	1.88	≤11.00	PASS

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11AC40MIMO	total	5230	---	---	4.88	≤11.00	PASS
11AC80MIMO	Ant1	5210	-5.12	3.14	-1.98	≤11.00	PASS
11AC80MIMO	Ant2	5210	-4.74	3.52	-1.22	≤11.00	PASS
11AC80MIMO	total	5210	---	---	1.43	≤11.00	PASS
11AX20MIMO	Ant1	5180	3.36	1.8	5.16	≤11.00	PASS
11AX20MIMO	Ant2	5180	2.76	1.83	4.59	≤11.00	PASS
11AX20MIMO	total	5180	---	---	7.89	≤11.00	PASS
11AX20MIMO	Ant1	5200	3.28	1.79	5.07	≤11.00	PASS
11AX20MIMO	Ant2	5200	3.00	1.79	4.79	≤11.00	PASS
11AX20MIMO	total	5200	---	---	7.94	≤11.00	PASS
11AX20MIMO	Ant1	5240	2.06	1.8	3.86	≤11.00	PASS
11AX20MIMO	Ant2	5240	1.41	1.8	3.21	≤11.00	PASS
11AX20MIMO	total	5240	---	---	6.56	≤11.00	PASS
11AX40MIMO	Ant1	5190	-0.90	2.93	2.03	≤11.00	PASS
11AX40MIMO	Ant2	5190	-0.18	2.97	2.79	≤11.00	PASS
11AX40MIMO	total	5190	---	---	5.44	≤11.00	PASS
11AX40MIMO	Ant1	5230	-1.64	2.89	1.25	≤11.00	PASS
11AX40MIMO	Ant2	5230	-1.41	2.85	1.44	≤11.00	PASS
11AX40MIMO	total	5230	---	---	4.36	≤11.00	PASS
11AX80MIMO	Ant1	5210	-5.76	4.46	-1.30	≤11.00	PASS
11AX80MIMO	Ant2	5210	-5.25	4.46	-0.79	≤11.00	PASS
11AX80MIMO	total	5210	---	---	1.97	≤11.00	PASS

Note: 1.The cable loss are compensated in the graph.

2.WiFi 5.2G: As Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$) 2 /N_{ANT}] dBi=4.76＜6dBi,

so limit=23.98dBm.

3.NOTE: MIMO= 10*LOG((10^ANT1/10)+10^(ANT2/10))

Test Result-B4

TestMode	Antenna	Frequency [MHz]	Reading Result [dBm/MHz]	DC Factor [dB]	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5745	-1.84	1.38	-0.46	≤30.00	PASS
11A	Ant2	5745	-1.02	1.38	0.36	≤30.00	PASS
11A	Ant1	5785	-2.19	1.37	-0.82	≤30.00	PASS
11A	Ant2	5785	-1.64	1.37	-0.27	≤30.00	PASS
11A	Ant1	5825	-2.00	1.38	-0.62	≤30.00	PASS
11A	Ant2	5825	-1.61	1.36	-0.25	≤30.00	PASS
11N20MIMO	Ant1	5745	-2.50	1.46	-1.04	≤30.00	PASS
11N20MIMO	Ant2	5745	-1.85	1.46	-0.39	≤30.00	PASS
11N20MIMO	total	5745	---	---	2.31	≤29.11	PASS
11N20MIMO	Ant1	5785	-2.79	1.48	-1.31	≤30.00	PASS

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11N20MIMO	Ant2	5785	-2.35	1.45	-0.90	≤30.00	PASS
11N20MIMO	total	5785	---	---	1.91	≤29.11	PASS
11N20MIMO	Ant1	5825	-2.48	1.48	-1.00	≤30.00	PASS
11N20MIMO	Ant2	5825	-1.62	1.45	-0.17	≤30.00	PASS
11N20MIMO	total	5825	---	---	2.45	≤29.11	PASS
11N40MIMO	Ant1	5755	-5.76	2.58	-3.18	≤30.00	PASS
11N40MIMO	Ant2	5755	-5.96	2.58	-3.38	≤30.00	PASS
11N40MIMO	total	5755	---	---	-0.27	≤29.11	PASS
11N40MIMO	Ant1	5795	-6.67	2.36	-4.31	≤30.00	PASS
11N40MIMO	Ant2	5795	-6.58	2.4	-4.18	≤30.00	PASS
11N40MIMO	total	5795	---	---	-1.23	≤29.11	PASS
11AC20MIMO	Ant1	5745	-2.22	1.4	-0.82	≤30.00	PASS
11AC20MIMO	Ant2	5745	-1.95	1.5	-0.45	≤30.00	PASS
11AC20MIMO	total	5745	---	---	2.38	≤29.11	PASS
11AC20MIMO	Ant1	5785	-2.83	1.48	-1.35	≤30.00	PASS
11AC20MIMO	Ant2	5785	-1.28	1.5	0.22	≤30.00	PASS
11AC20MIMO	total	5785	---	---	2.52	≤29.11	PASS
11AC20MIMO	Ant1	5825	-2.31	1.4	-0.91	≤30.00	PASS
11AC20MIMO	Ant2	5825	-2.61	1.43	-1.18	≤30.00	PASS
11AC20MIMO	total	5825	---	---	1.97	≤29.11	PASS
11AC40MIMO	Ant1	5755	-6.75	2.55	-4.20	≤30.00	PASS
11AC40MIMO	Ant2	5755	-5.08	2.59	-2.49	≤30.00	PASS
11AC40MIMO	total	5755	---	---	-0.25	≤29.11	PASS
11AC40MIMO	Ant1	5795	-5.45	2.55	-2.90	≤30.00	PASS
11AC40MIMO	Ant2	5795	-6.34	2.59	-3.75	≤30.00	PASS
11AC40MIMO	total	5795	---	---	-0.29	≤29.11	PASS
11AC80MIMO	Ant1	5775	-10.97	3.39	-7.58	≤30.00	PASS
11AC80MIMO	Ant2	5775	-10.51	3.45	-7.06	≤30.00	PASS
11AC80MIMO	total	5775	---	---	-4.30	≤29.11	PASS
11AX20MIMO	Ant1	5745	-2.33	1.8	-0.53	≤30.00	PASS
11AX20MIMO	Ant2	5745	-1.53	1.83	0.30	≤30.00	PASS
11AX20MIMO	total	5745	---	---	2.92	≤29.11	PASS
11AX20MIMO	Ant1	5785	-3.60	1.79	-1.81	≤30.00	PASS
11AX20MIMO	Ant2	5785	-2.38	1.67	-0.71	≤30.00	PASS
11AX20MIMO	total	5785	---	---	1.79	≤29.11	PASS
11AX20MIMO	Ant1	5825	-4.11	1.22	-2.89	≤30.00	PASS
11AX20MIMO	Ant2	5825	-3.43	1.73	-1.70	≤30.00	PASS
11AX20MIMO	total	5825	---	---	0.76	≤29.11	PASS
11AX40MIMO	Ant1	5755	-6.34	2.85	-3.49	≤30.00	PASS
11AX40MIMO	Ant2	5755	-5.75	2.89	-2.86	≤30.00	PASS
11AX40MIMO	total	5755	---	---	-0.15	≤29.11	PASS
11AX40MIMO	Ant1	5795	-6.82	3.01	-3.81	≤30.00	PASS

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11AX40MIMO	Ant2	5795	-5.99	3.01	-2.98	≤30.00	PASS
11AX40MIMO	total	5795	---	---	-0.36	≤29.11	PASS
11AX80MIMO	Ant1	5775	-11.41	4.46	-6.95	≤30.00	PASS
11AX80MIMO	Ant2	5775	-10.76	4.46	-6.30	≤30.00	PASS
11AX80MIMO	total	5775	---	---	-3.60	≤29.11	PASS

Note: 1.The cable loss are compensated in the graph.

2.WiFi 5.8G: As Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$) 2 /N_{ANT}] dBi=6.89＞6dBi,

so limit=30-(6.89-6)dBm=29.11dBm.

3.NOTE: MIMO= 10*LOG((10^ANT1/10)+10^(ANT2/10))

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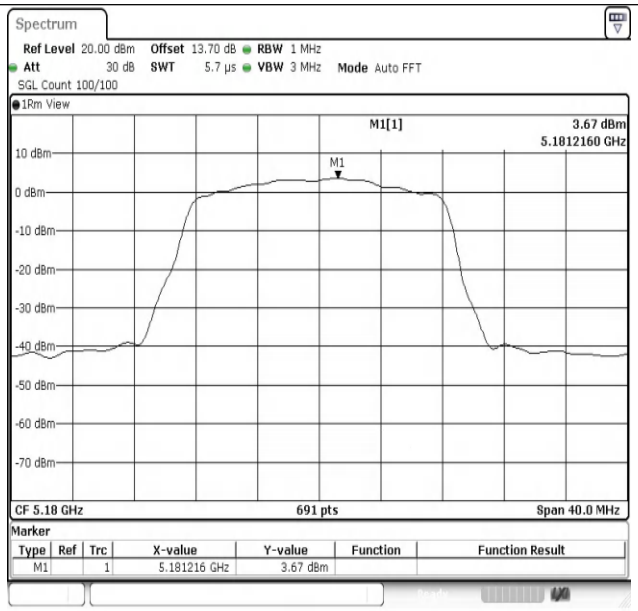
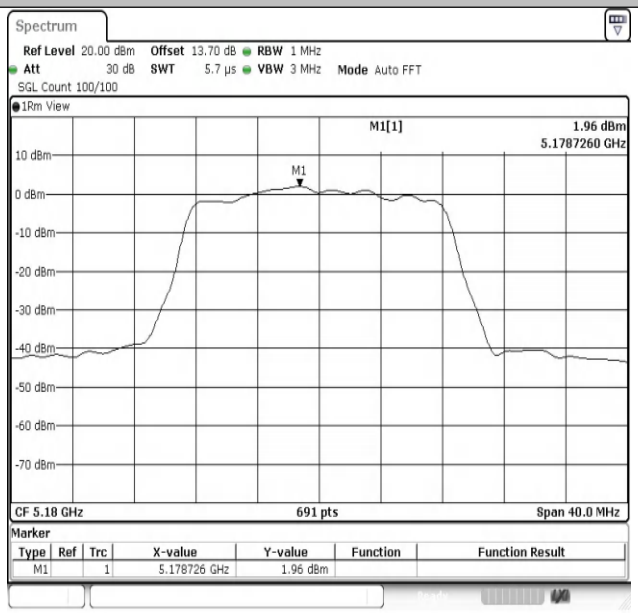
Test Graphs



11A-Ant1-5180-PASS



11A-Ant2-5180-PASS

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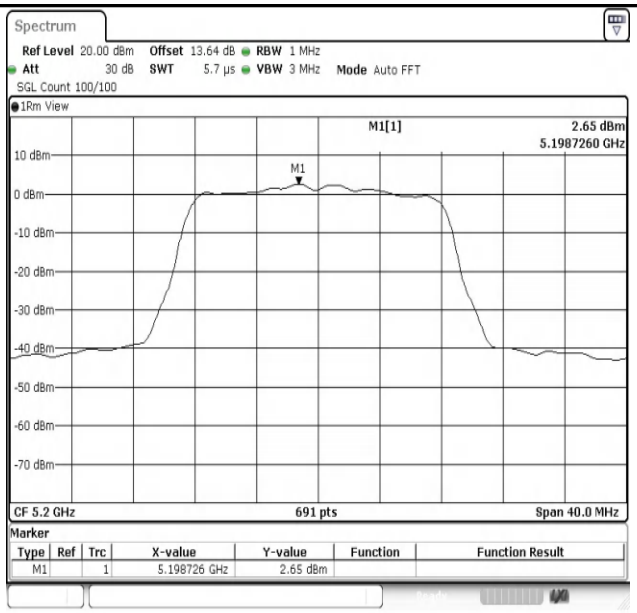
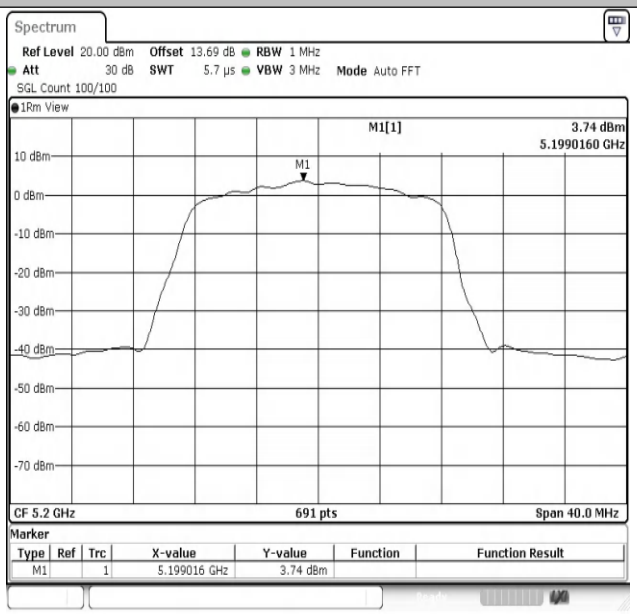


11A-Ant1-5200-PASS



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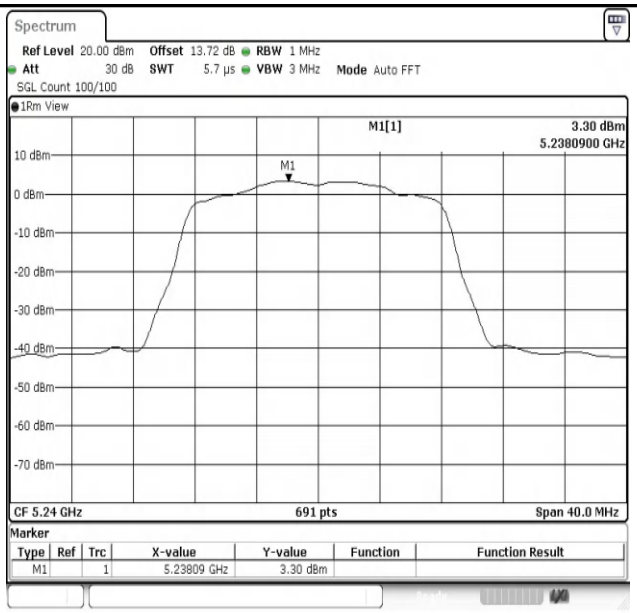

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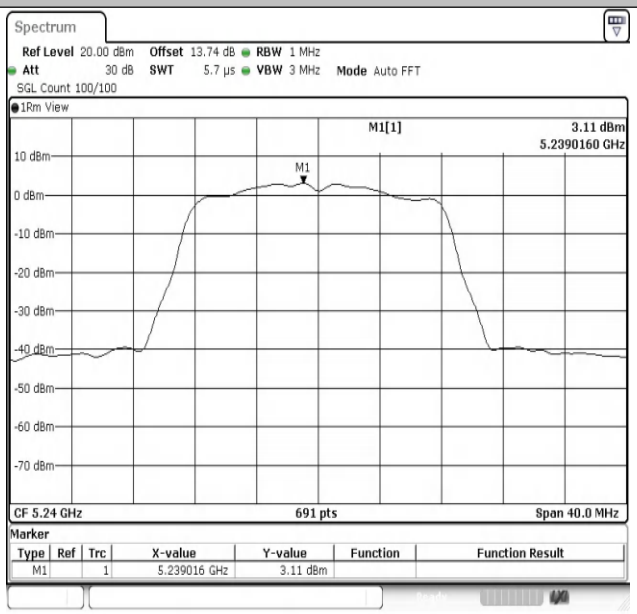

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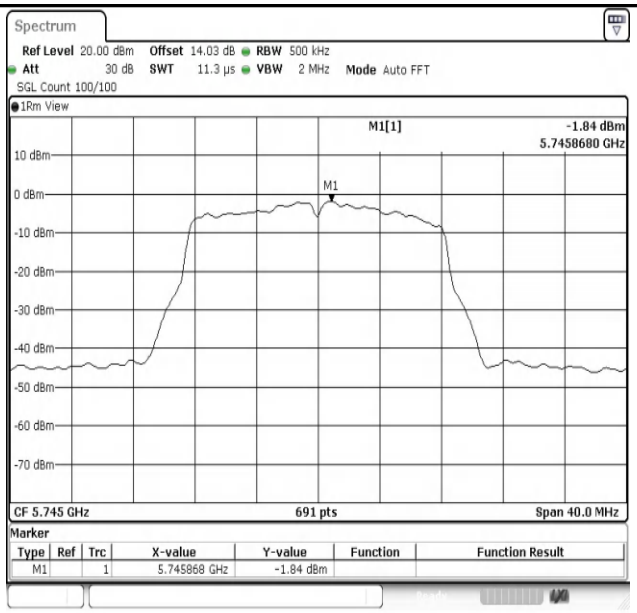

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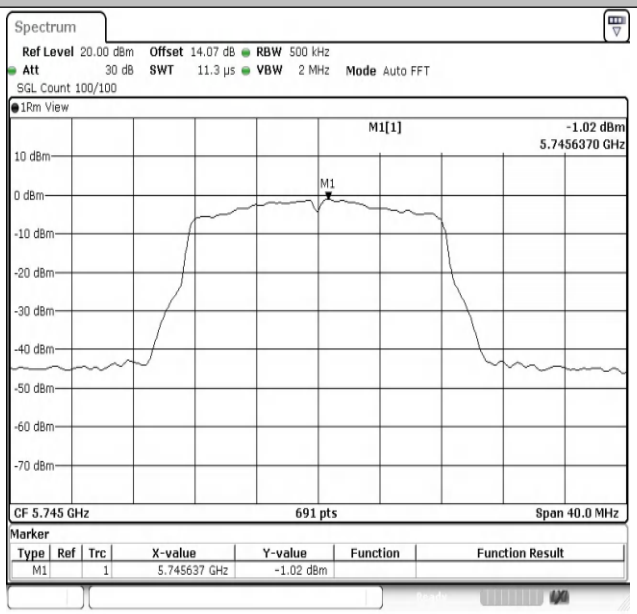
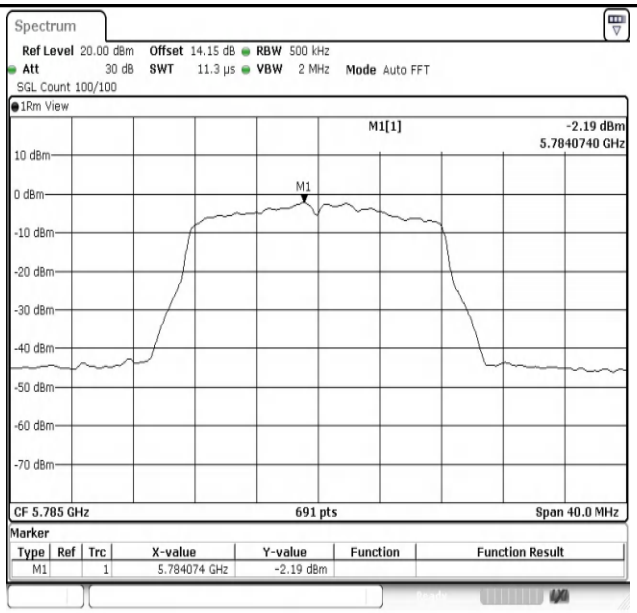
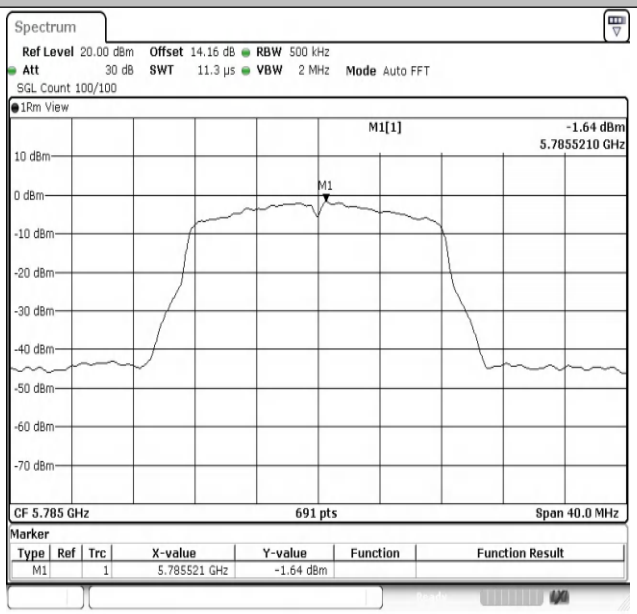


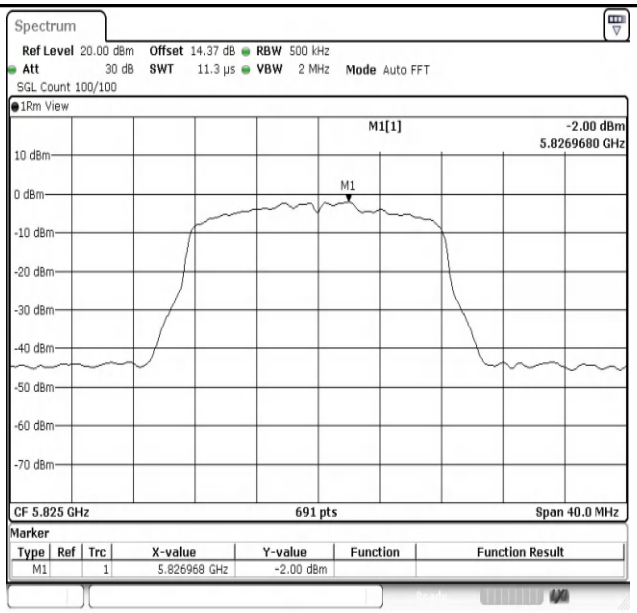
11A-Ant2-5745-PASS



11A-Ant1-5785-PASS



11A-Ant2-5785-PASS



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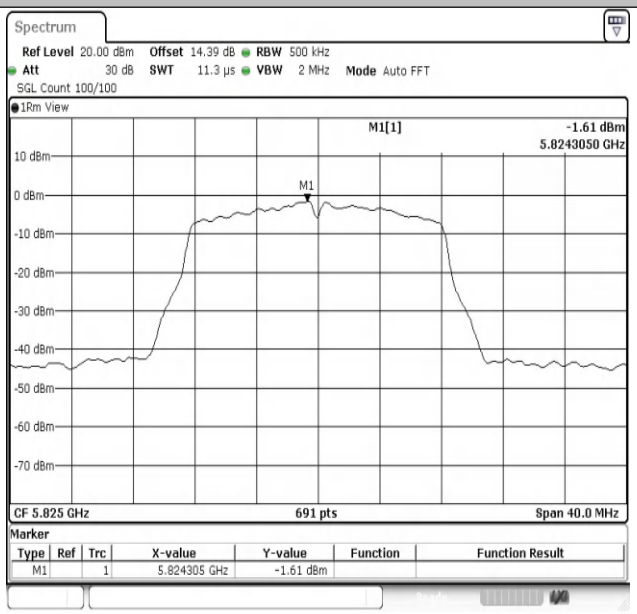

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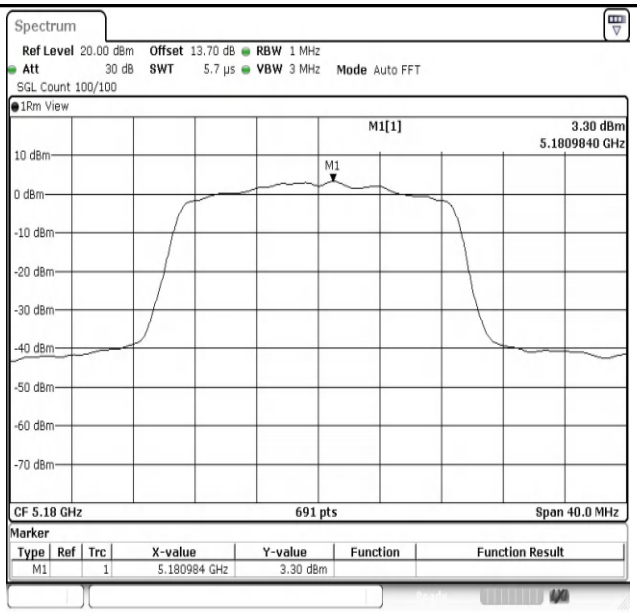
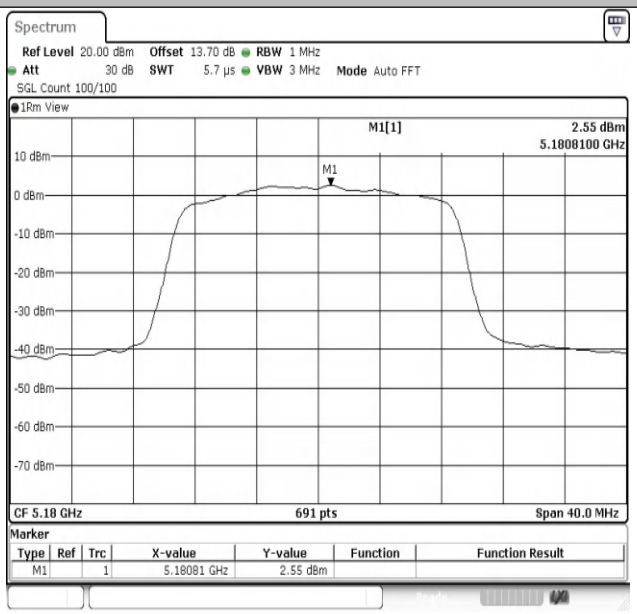


11N20MIMO-Ant1-5180-PASS



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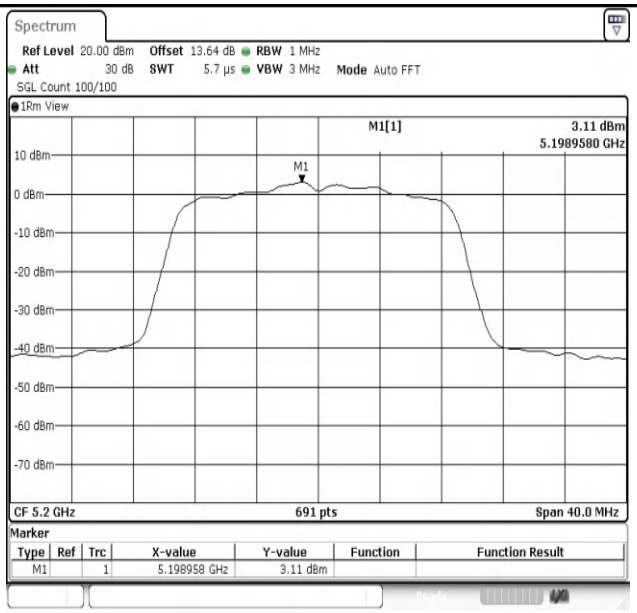
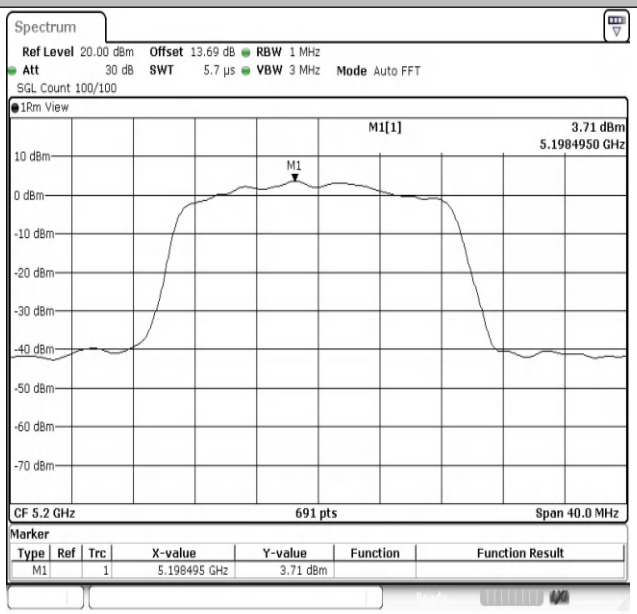
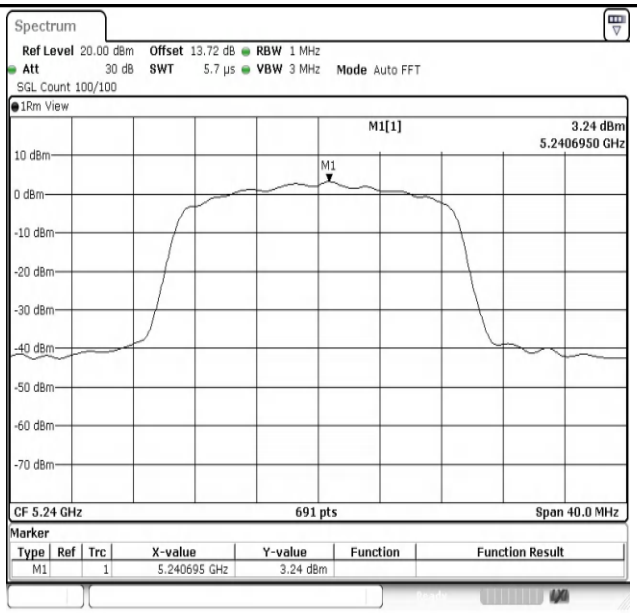


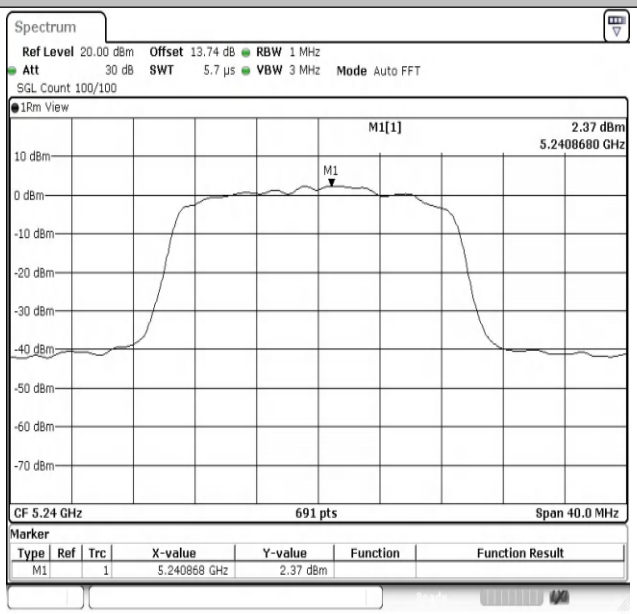
11N20MIMO-Ant1-5200-PASS



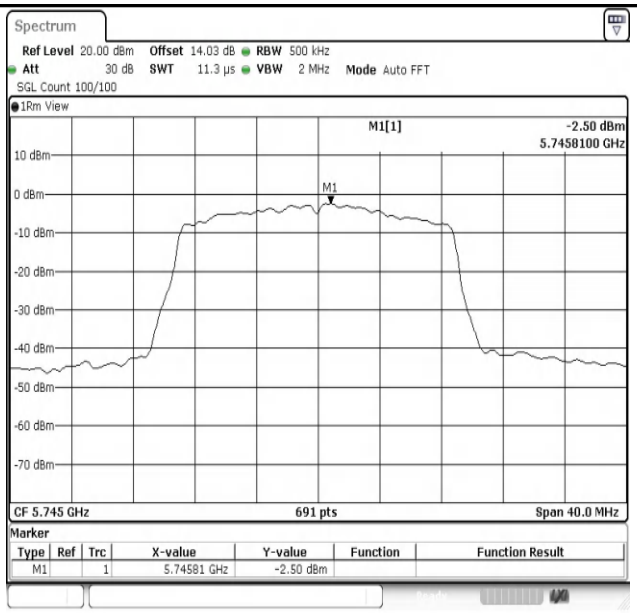
11N20MIMO-Ant2-5200-PASS



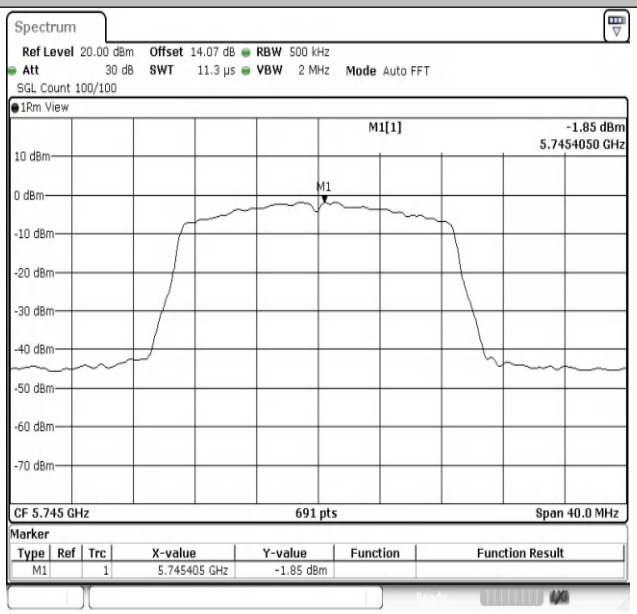
11N20MIMO-Ant1-5240-PASS



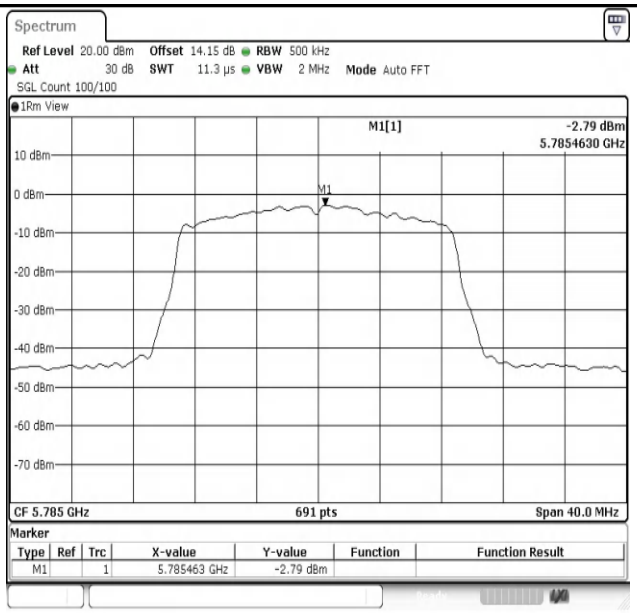
11N20MIMO-Ant2-5240-PASS



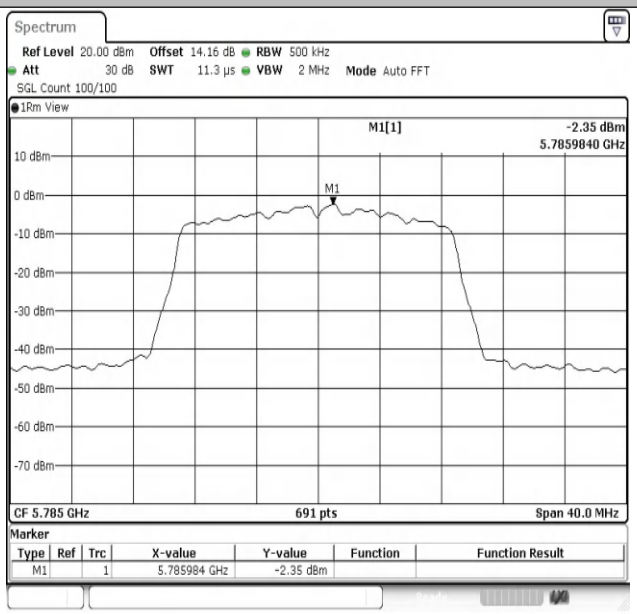
11N20MIMO-Ant1-5745-PASS



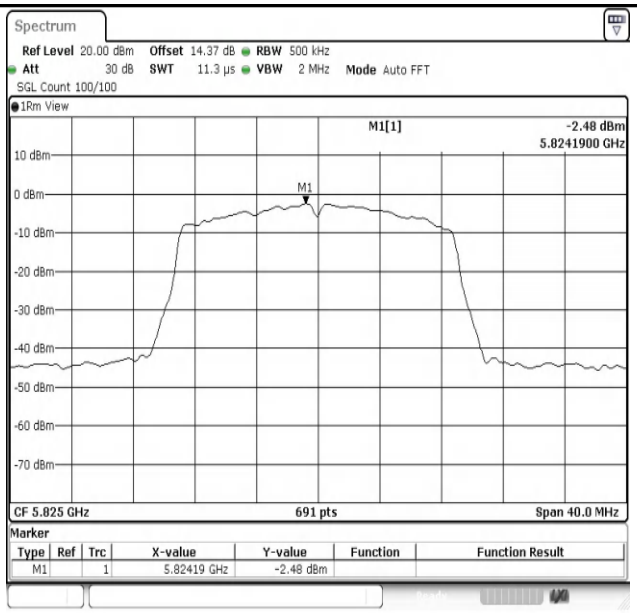
11N20MIMO-Ant2-5745-PASS



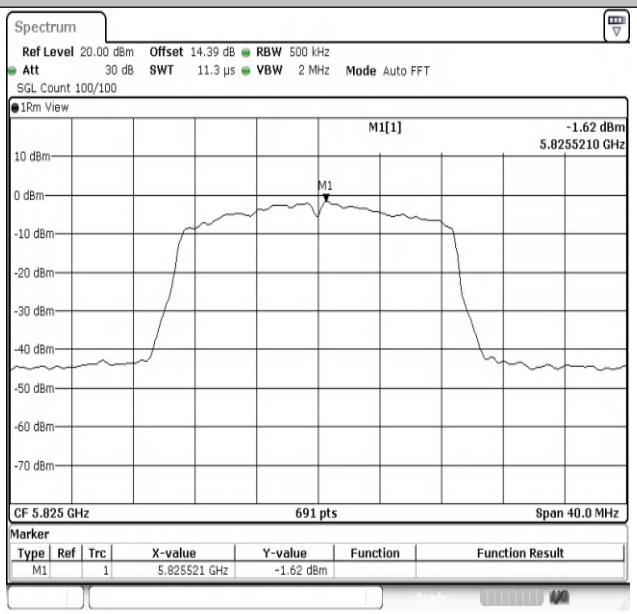
11N20MIMO-Ant1-5785-PASS



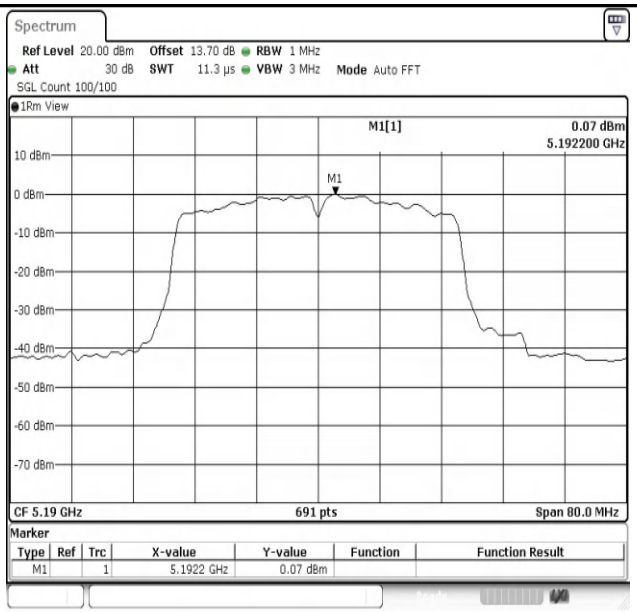
11N20MIMO-Ant2-5785-PASS



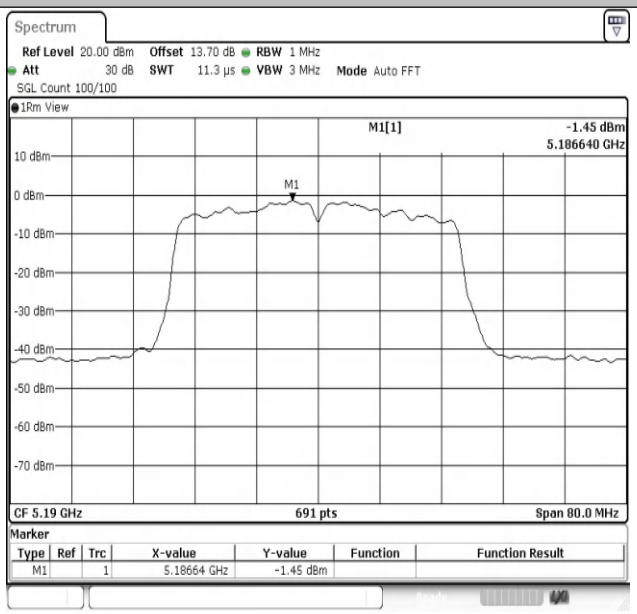
11N20MIMO-Ant1-5825-PASS



11N20MIMO-Ant2-5825-PASS



11N40MIMO-Ant1-5190-PASS



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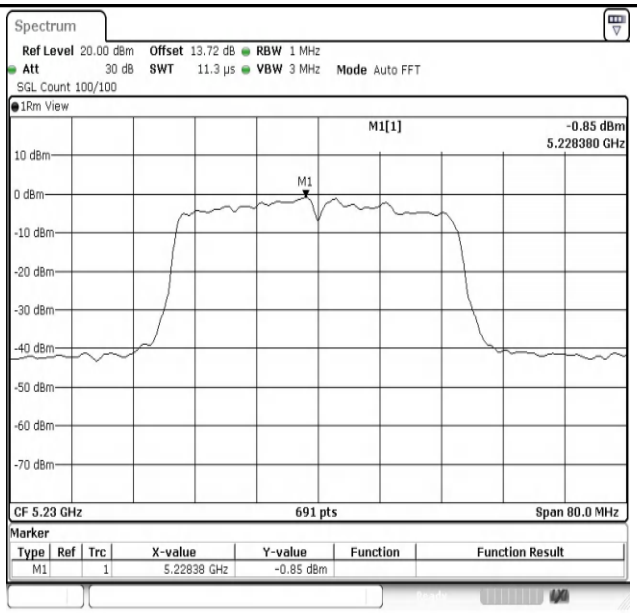
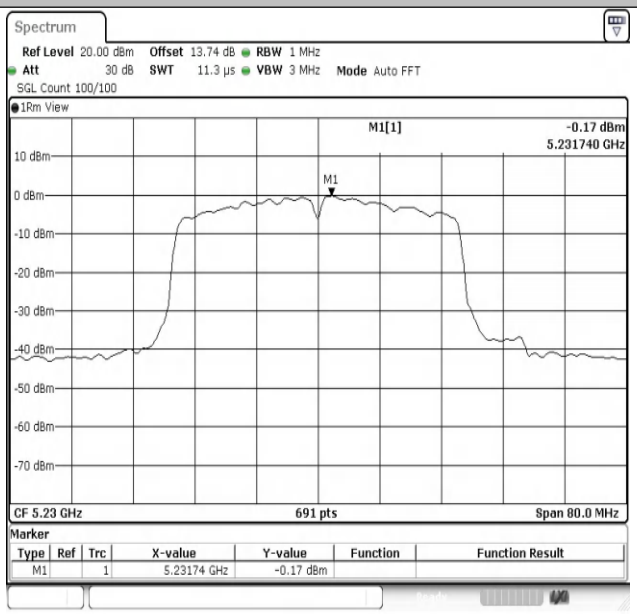
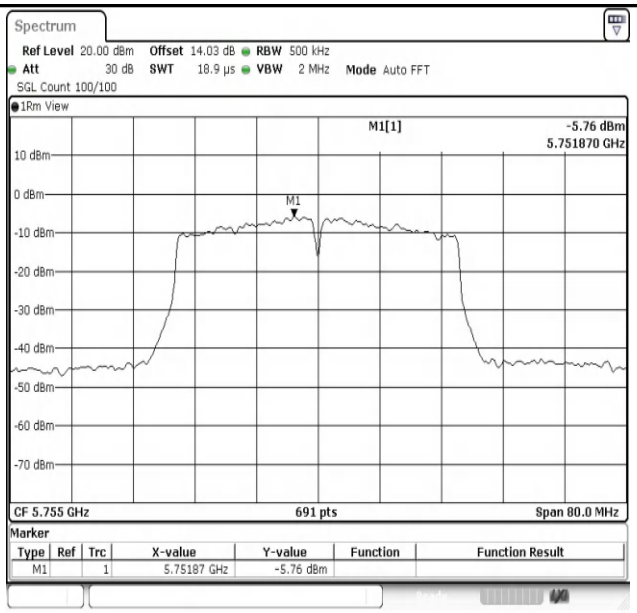


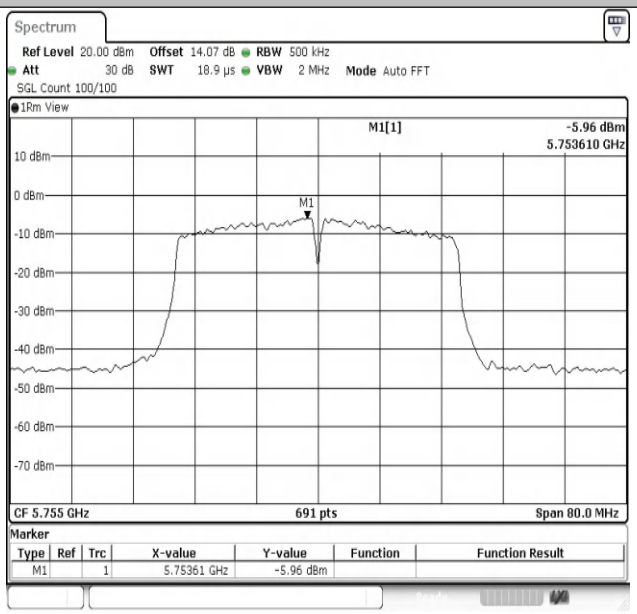
11N40MIMO-Ant1-5230-PASS



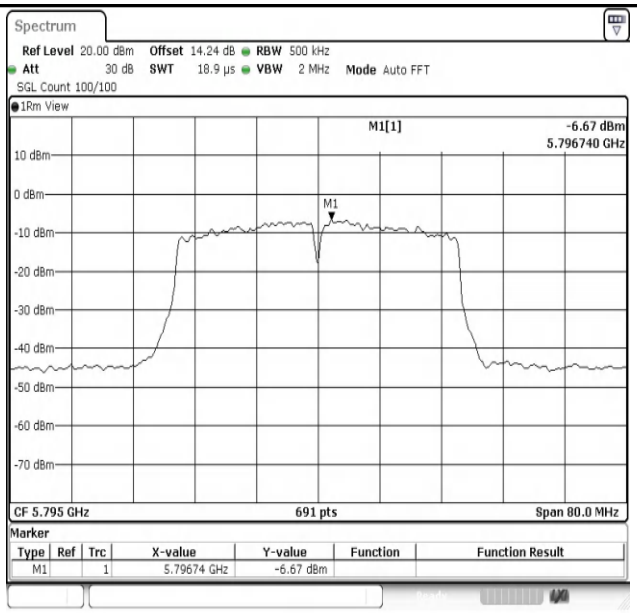
11N40MIMO-Ant2-5230-PASS



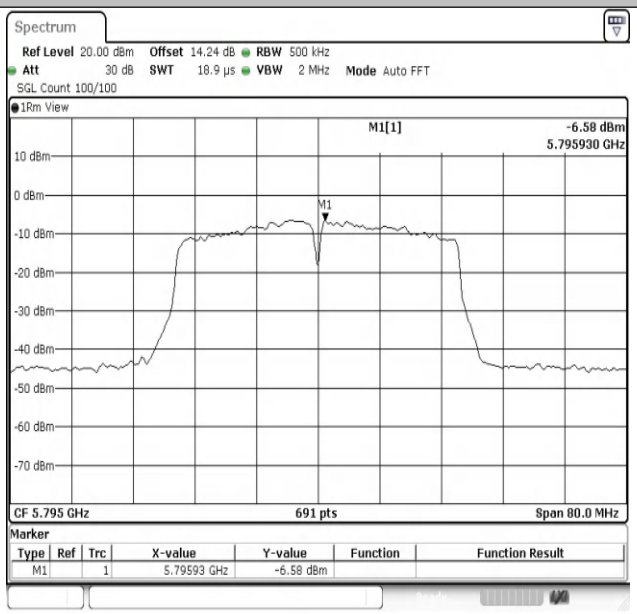
11N40MIMO-Ant1-5755-PASS



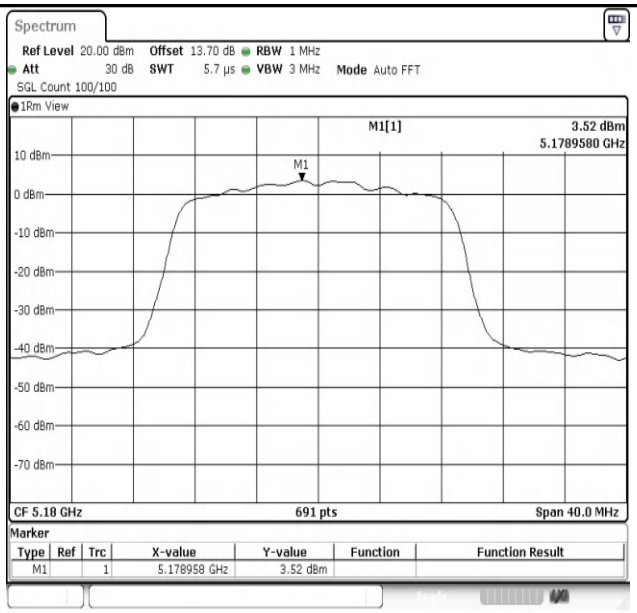
11N40MIMO-Ant2-5755-PASS



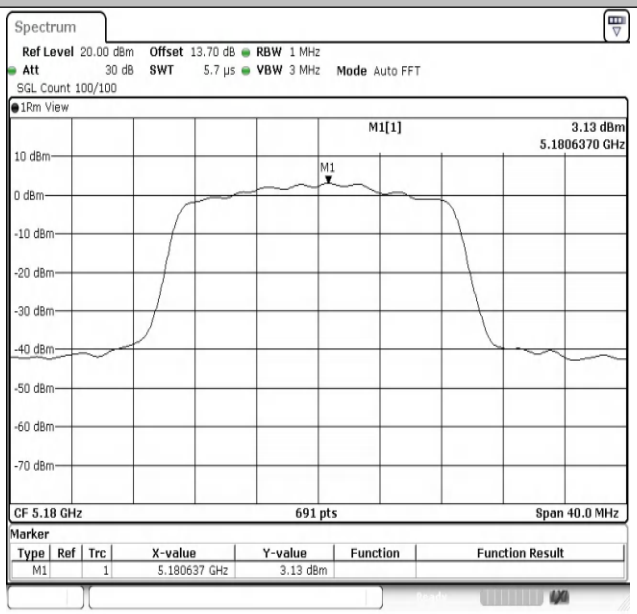
11N40MIMO-Ant1-5795-PASS



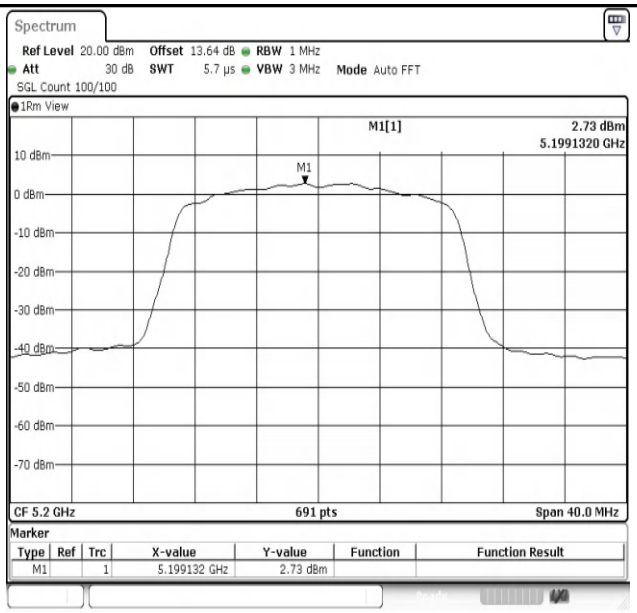
11N40MIMO-Ant2-5795-PASS



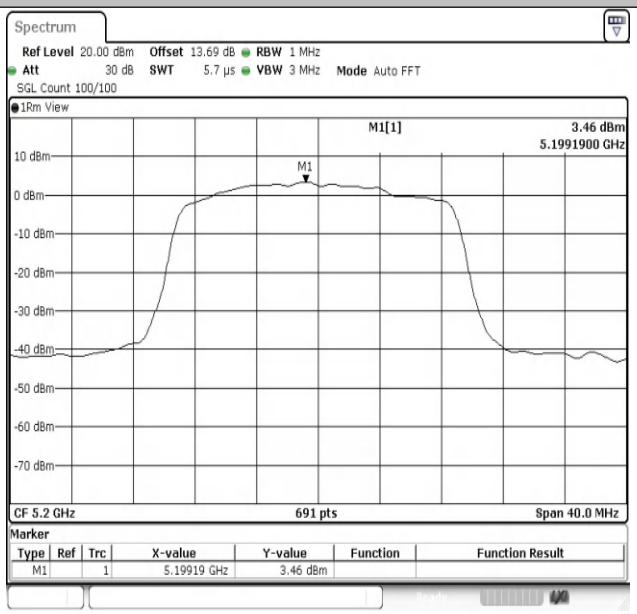
11AC20MIMO-Ant1-5180-PASS



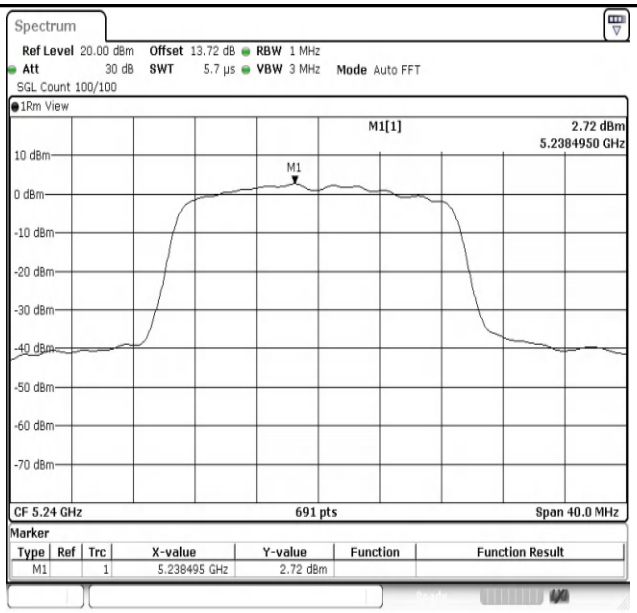
11AC20MIMO-Ant2-5180-PASS



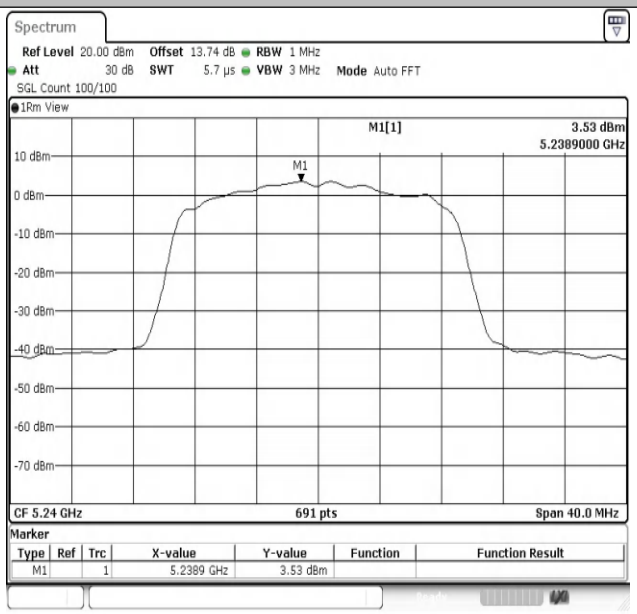
11AC20MIMO-Ant1-5200-PASS



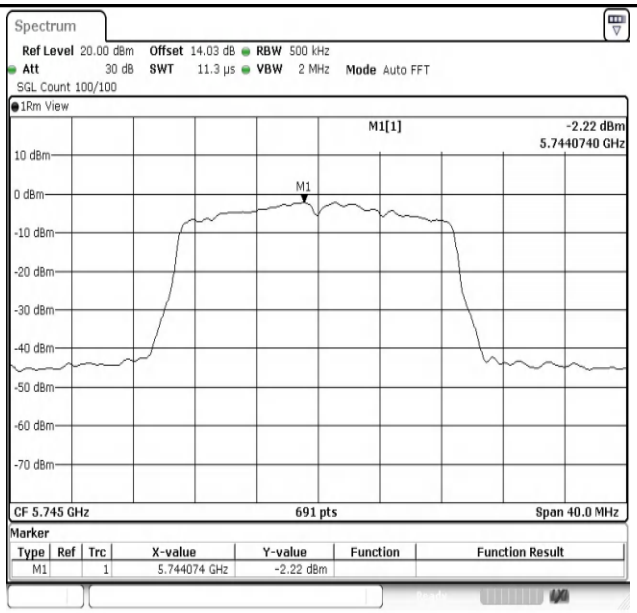
11AC20MIMO-Ant2-5200-PASS



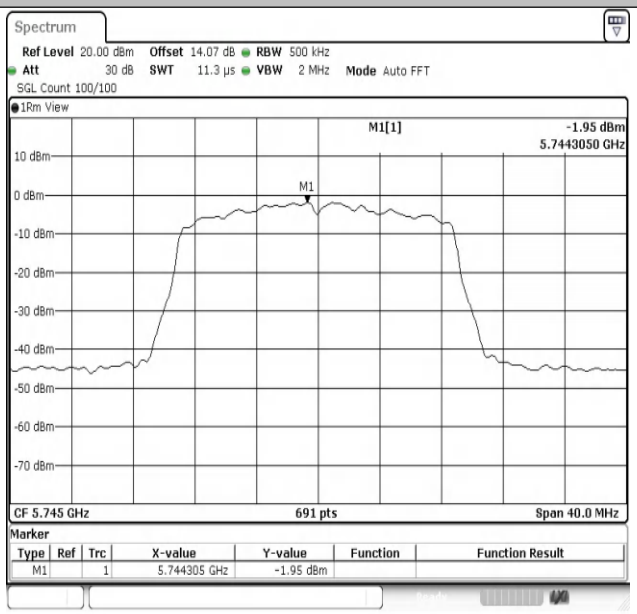
11AC20MIMO-Ant1-5240-PASS



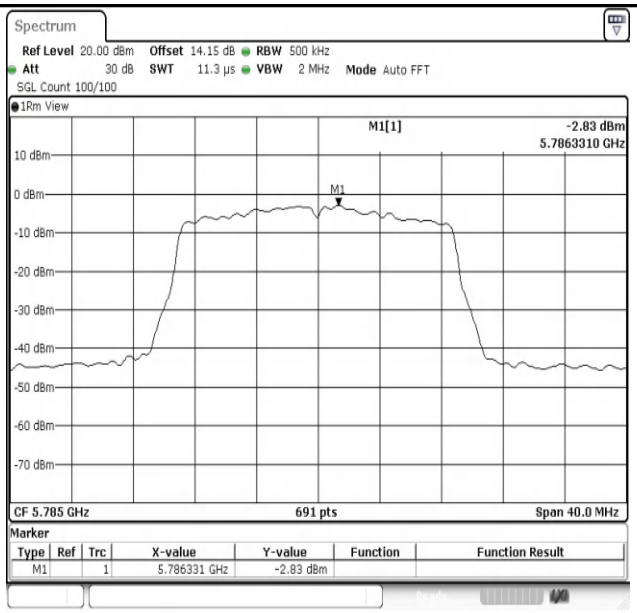
11AC20MIMO-Ant2-5240-PASS



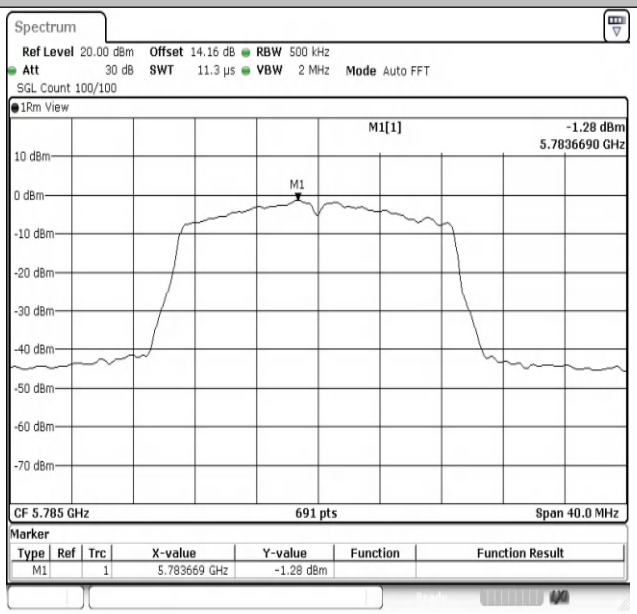
11AC20MIMO-Ant1-5745-PASS



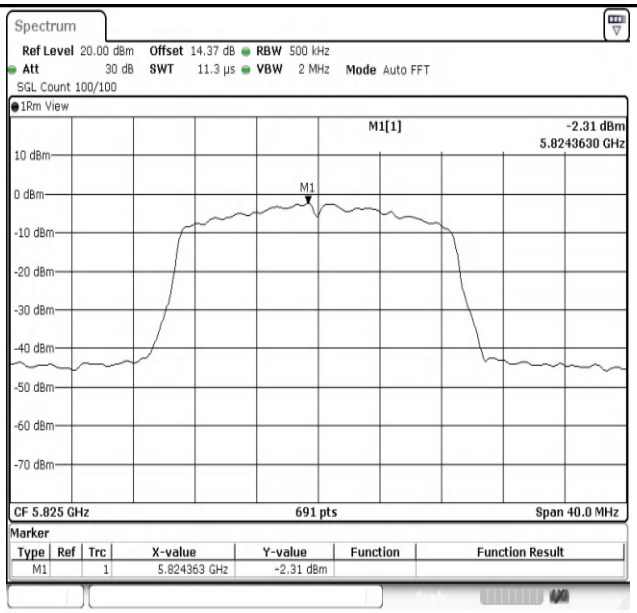
11AC20MIMO-Ant2-5745-PASS



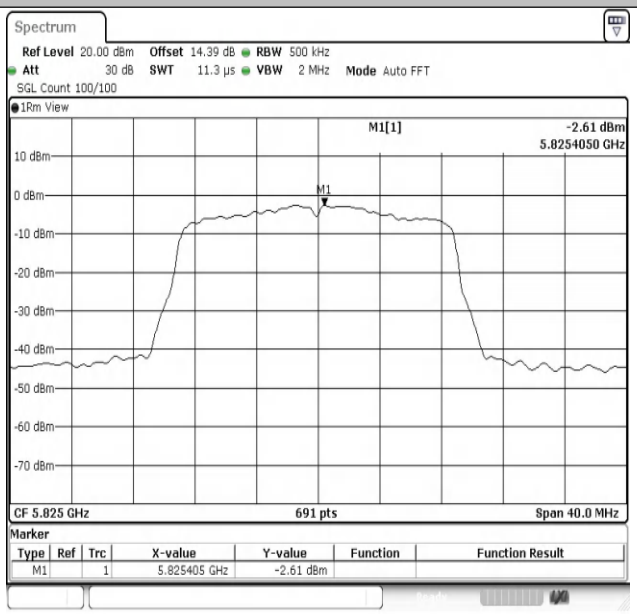
11AC20MIMO-Ant1-5785-PASS



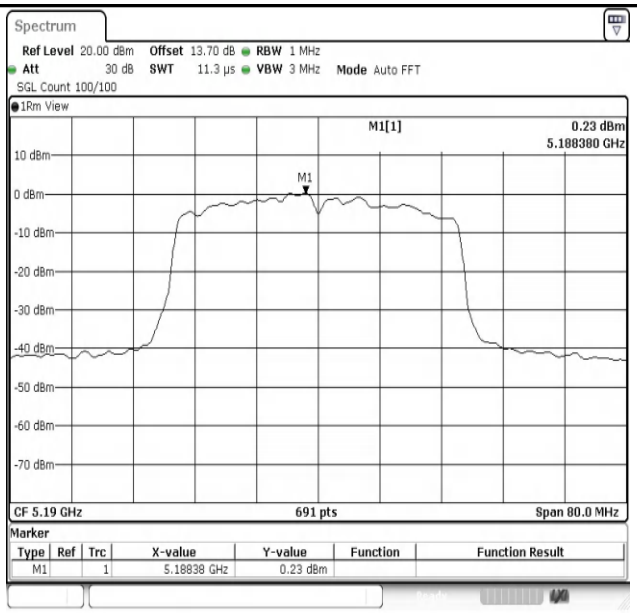
11AC20MIMO-Ant2-5785-PASS



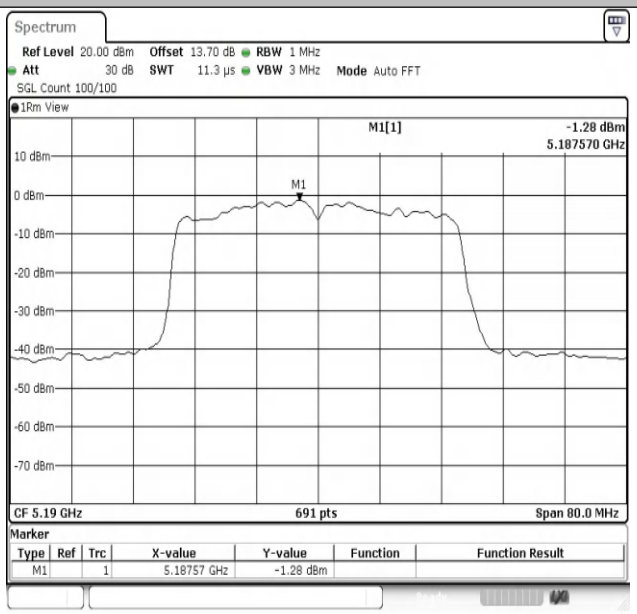
11AC20MIMO-Ant1-5825-PASS



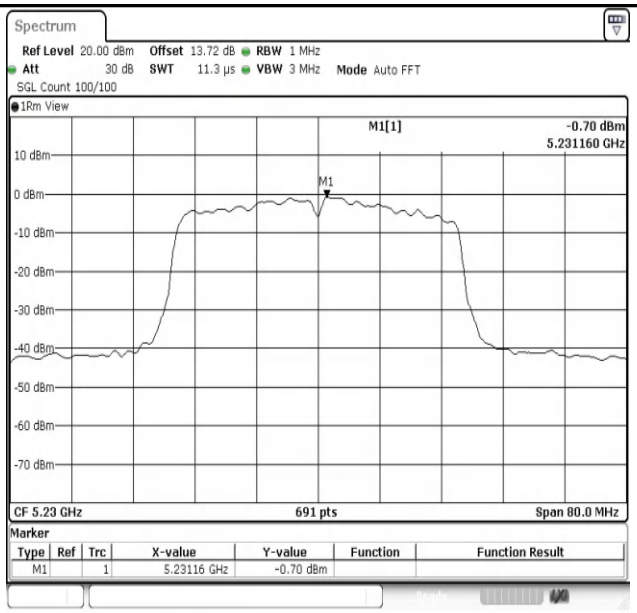
11AC20MIMO-Ant2-5825-PASS



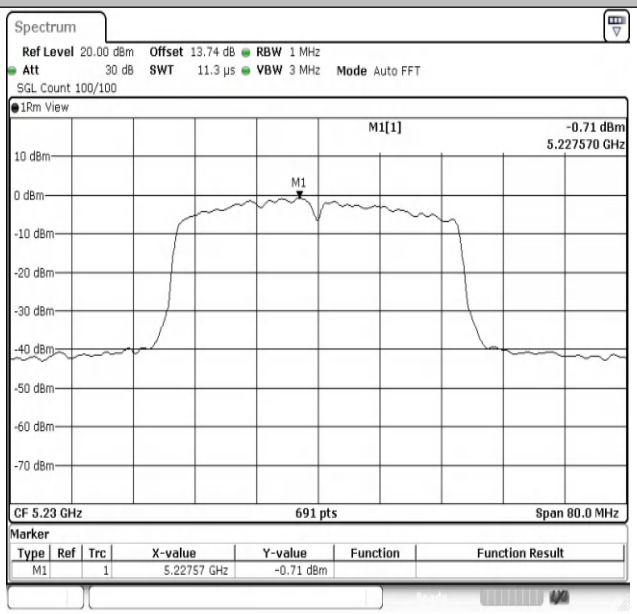
11AC40MIMO-Ant1-5190-PASS



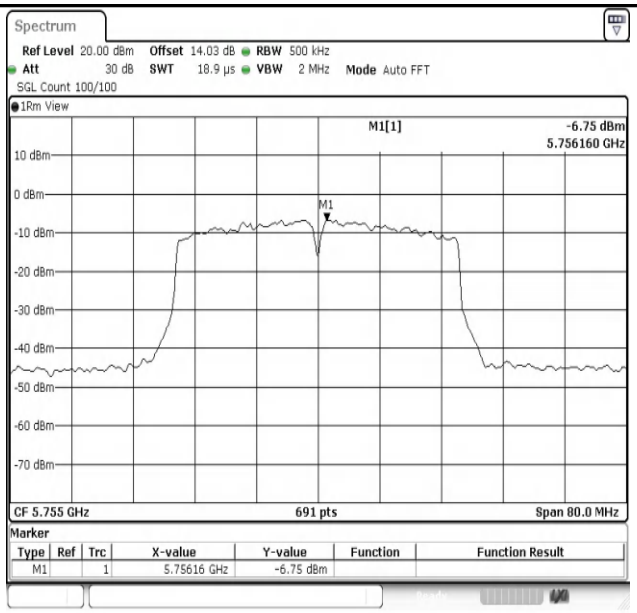
11AC40MIMO-Ant2-5190-PASS



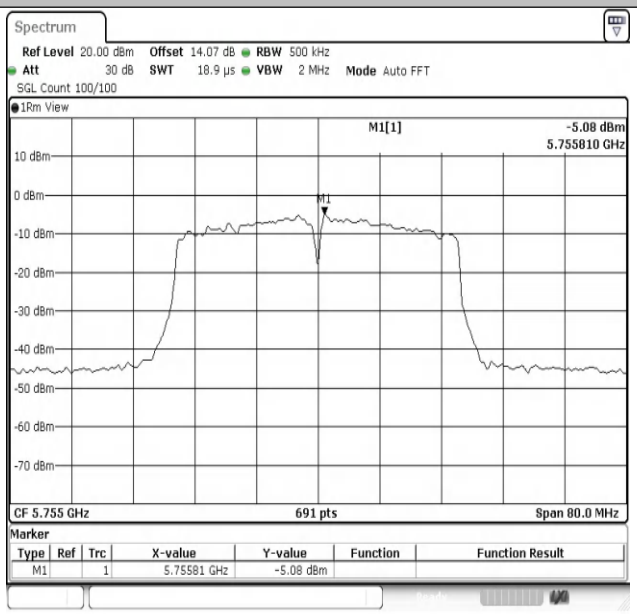
11AC40MIMO-Ant1-5230-PASS



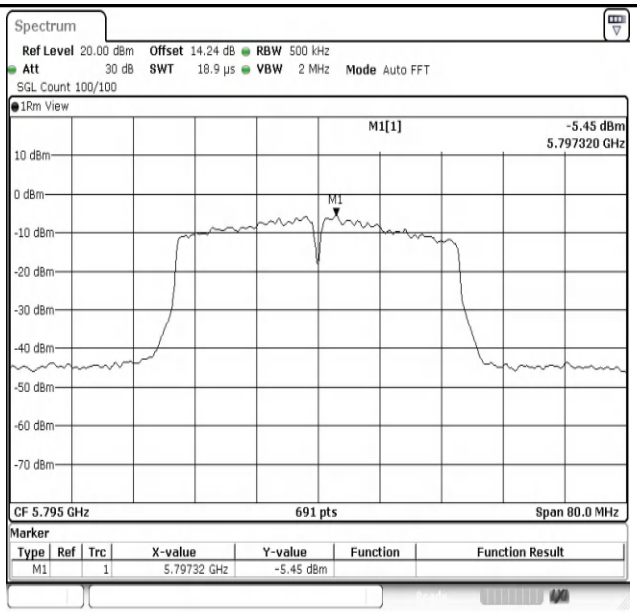
11AC40MIMO-Ant2-5230-PASS



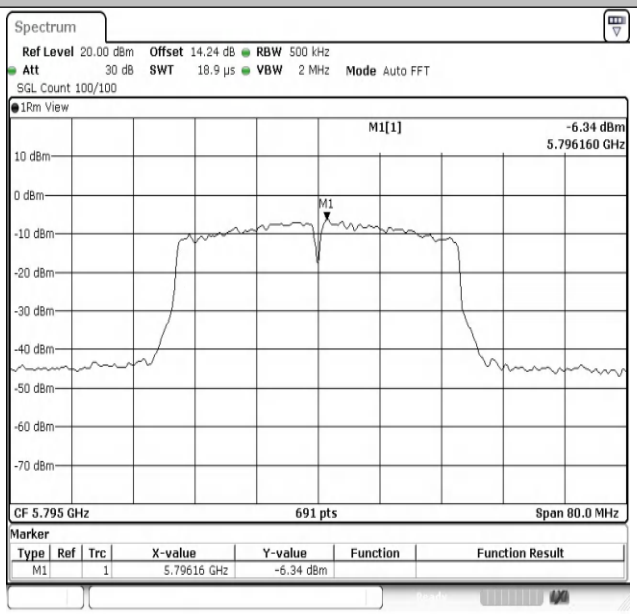
11AC40MIMO-Ant1-5755-PASS



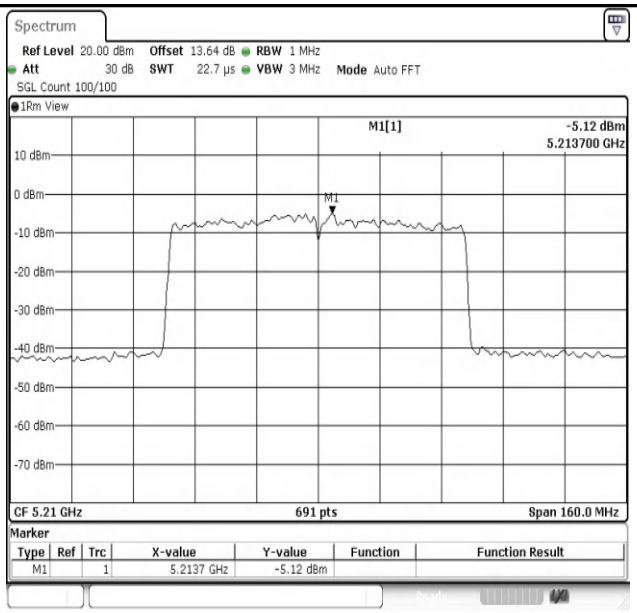
11AC40MIMO-Ant2-5755-PASS



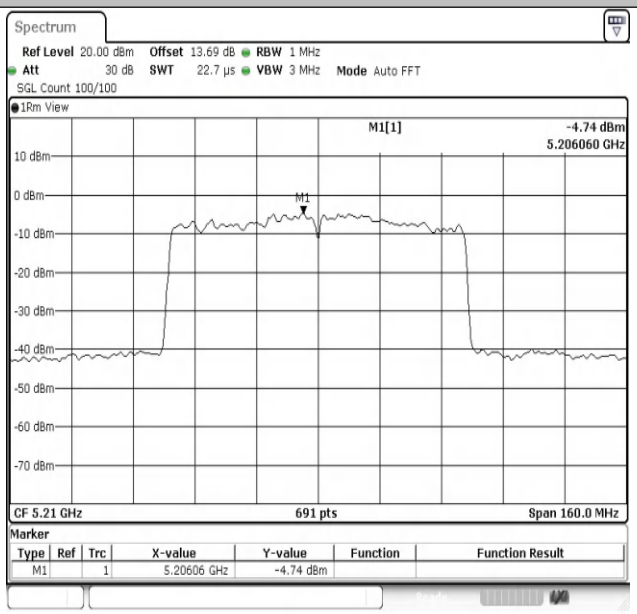
11AC40MIMO-Ant1-5795-PASS



11AC40MIMO-Ant2-5795-PASS



11AC80MIMO-Ant1-5210-PASS



11AC80MIMO-Ant2-5210-PASS