Appendix E

RF Test Data for 5.3&5.5G WIFI (Conducted Measurement)

Product Name: OF2021 Control Center

Test Model: UR200878-CB

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

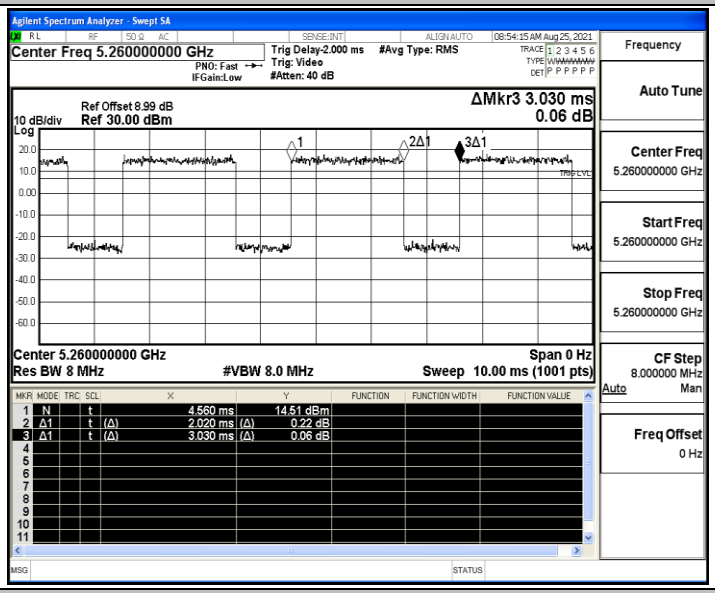
E.1 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5260	2.02	3.03	66.67	---	PASS
		5280	2.02	3.03	66.67	---	PASS
		5320	2.02	3.03	66.67	---	PASS
		5500	2.03	3.03	67.00	---	PASS
		5580	2.02	3.03	66.67	---	PASS
		5700	2.02	3.03	66.67	---	PASS
11N20SISO	Ant1	5260	1.89	2.90	65.17	---	PASS
		5280	1.88	2.89	65.05	---	PASS
		5320	1.88	2.89	65.05	---	PASS
		5500	1.88	2.89	65.05	---	PASS
		5580	1.88	2.89	65.05	---	PASS
		5700	1.88	2.89	65.05	---	PASS
11N40SISO	Ant1	5270	0.92	1.93	47.67	---	PASS
		5310	0.93	1.94	47.94	---	PASS
		5510	0.92	1.93	47.67	---	PASS
		5550	0.92	1.93	47.67	---	PASS
		5670	0.92	1.93	47.67	---	PASS
11AC20SISO	Ant1	5260	1.89	2.90	65.17	---	PASS
		5280	1.89	2.90	65.17	---	PASS
		5320	1.89	2.90	65.17	---	PASS
		5500	1.89	2.90	65.17	---	PASS
		5580	1.89	2.90	65.17	---	PASS
		5700	1.89	2.90	65.17	---	PASS
11AC40SISO	Ant1	5270	0.93	1.94	47.94	---	PASS
		5310	0.93	1.94	47.94	---	PASS
		5510	0.93	1.94	47.94	---	PASS
		5550	0.93	1.94	47.94	---	PASS
		5670	0.93	1.94	47.94	---	PASS
11AC80SISO	Ant1	5290	0.45	1.46	30.82	---	PASS
		5530	0.45	1.46	30.82	---	PASS
		5610	0.45	1.46	30.82	---	PASS

Test Graphs

11A_Ant1_5260



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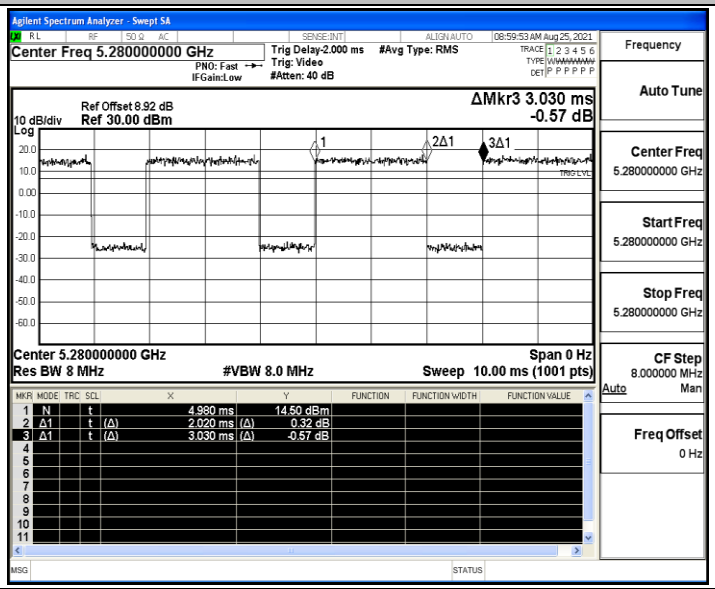

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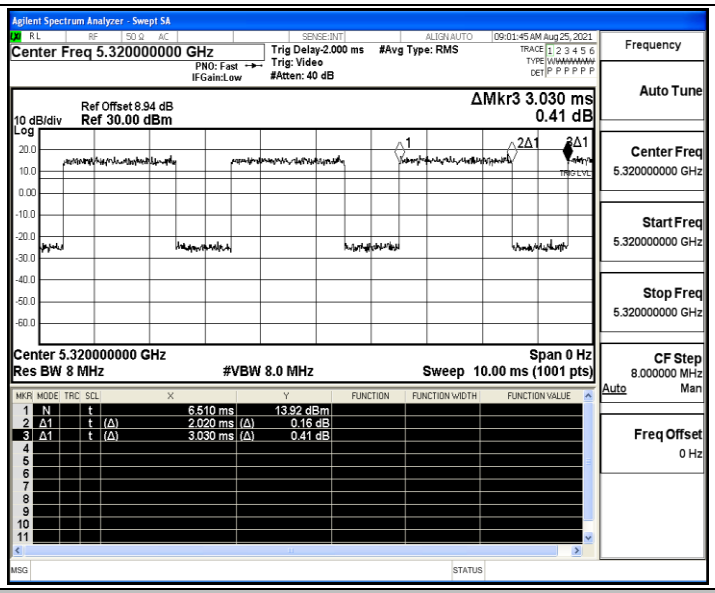

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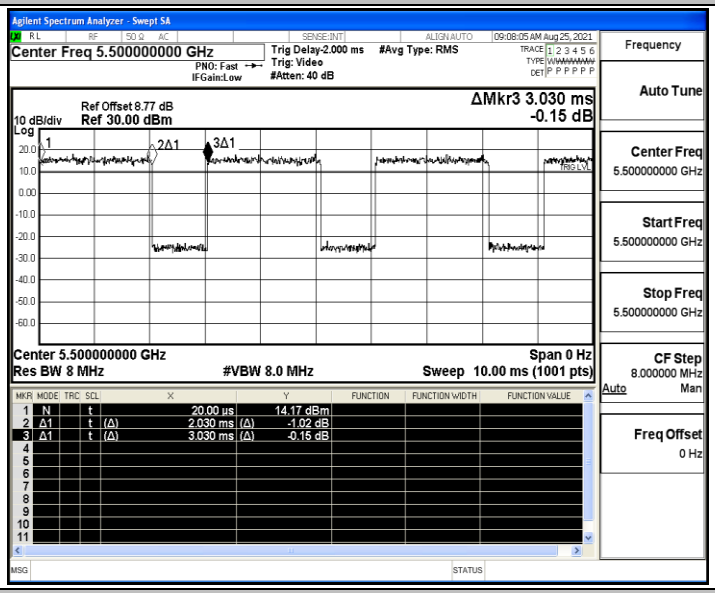

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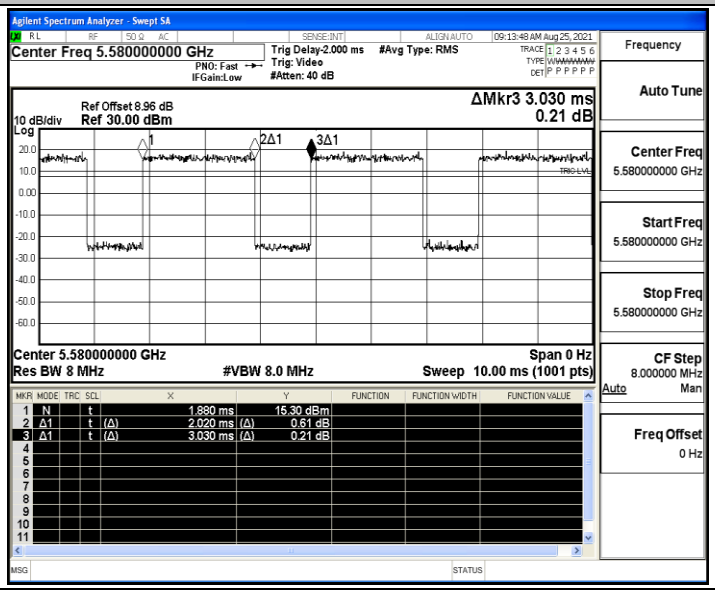

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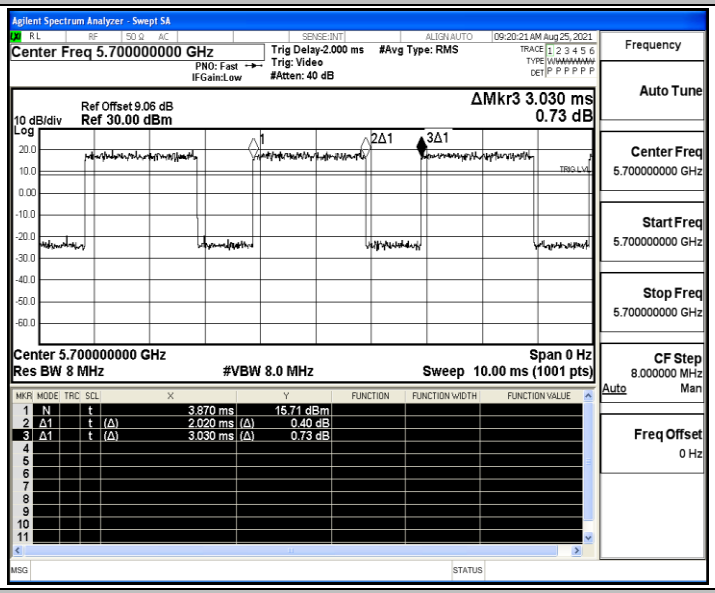

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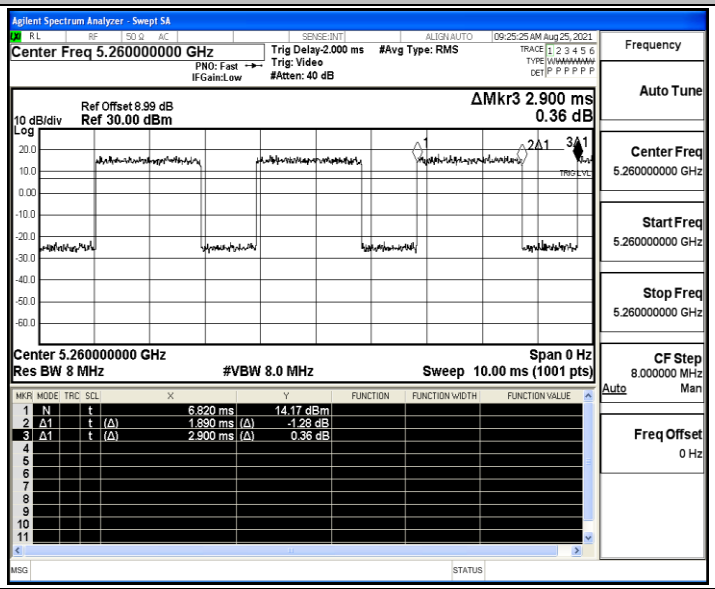

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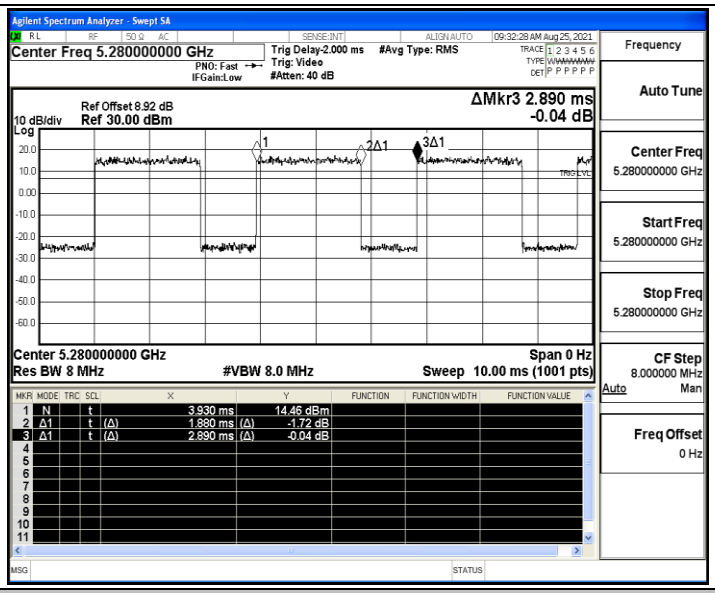

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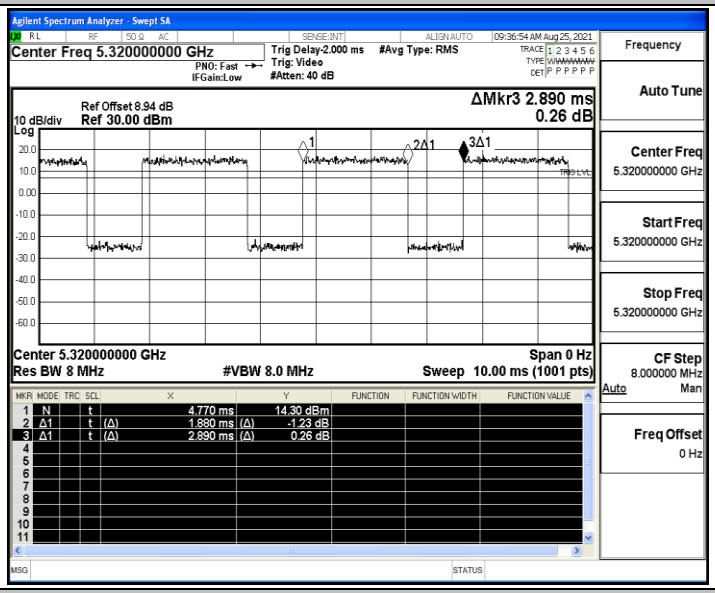

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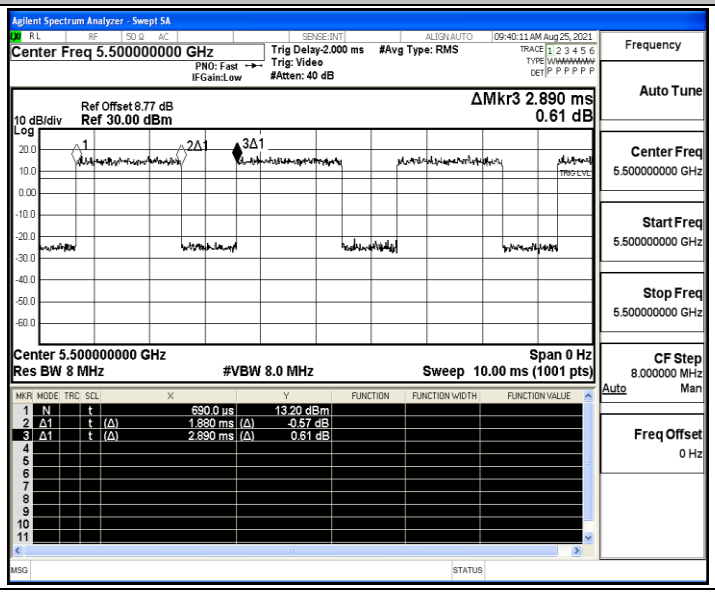

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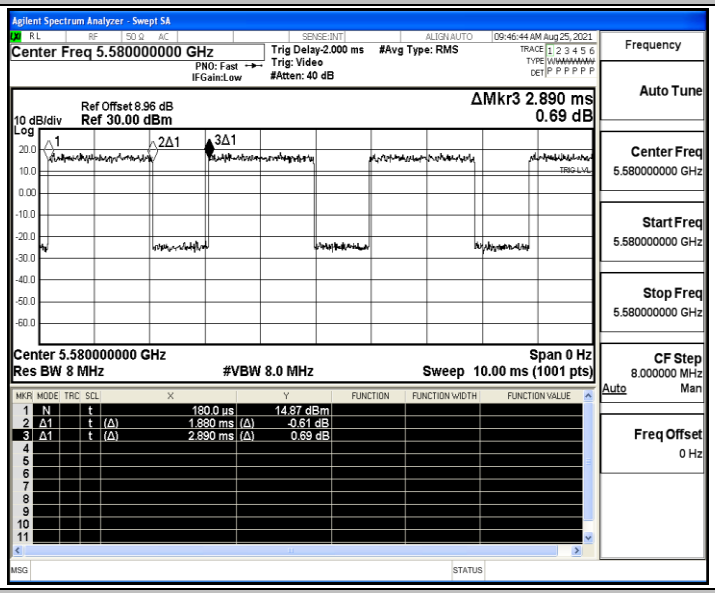

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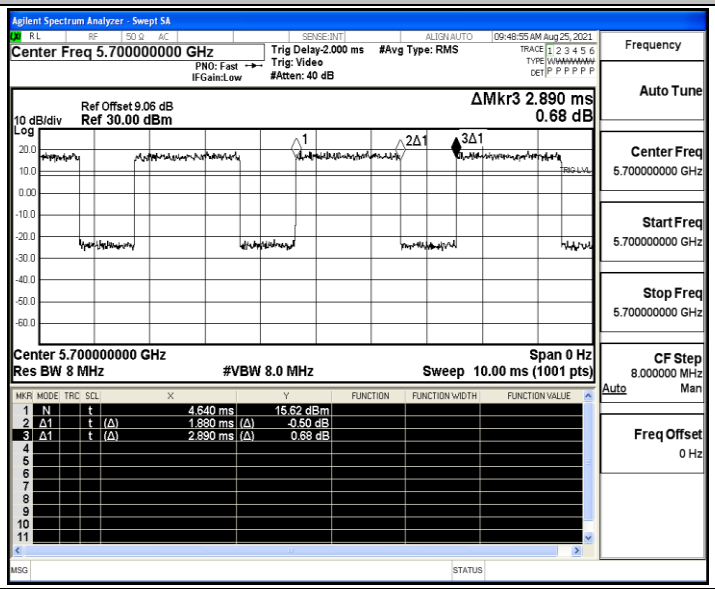

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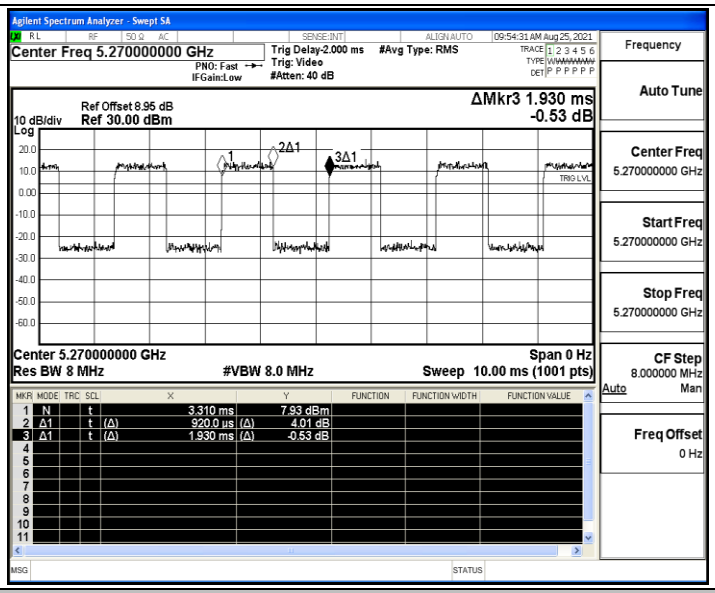

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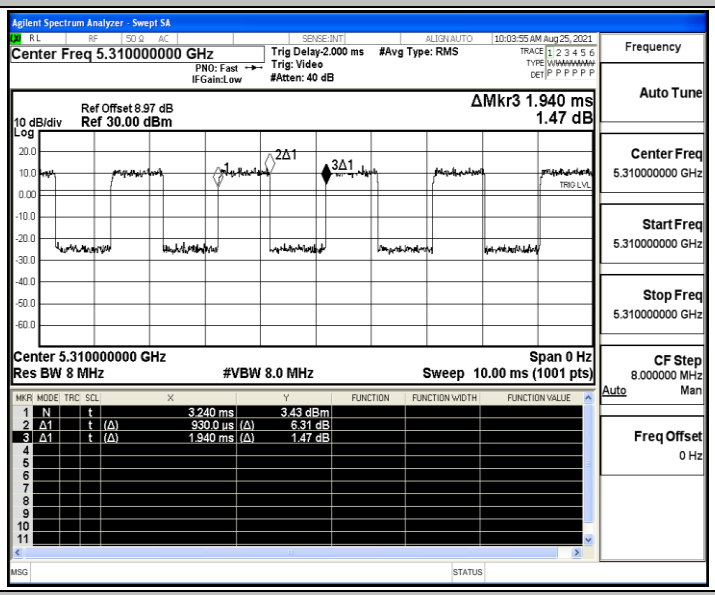
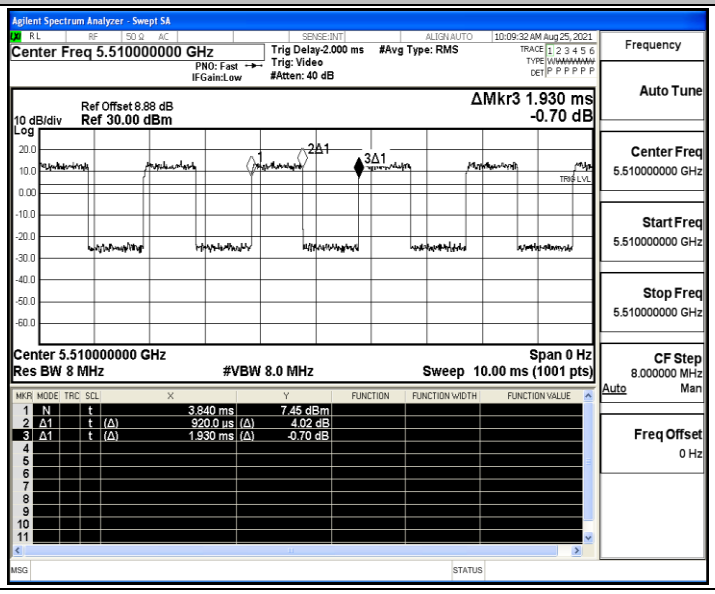


11N40SISO_Ant1_5510



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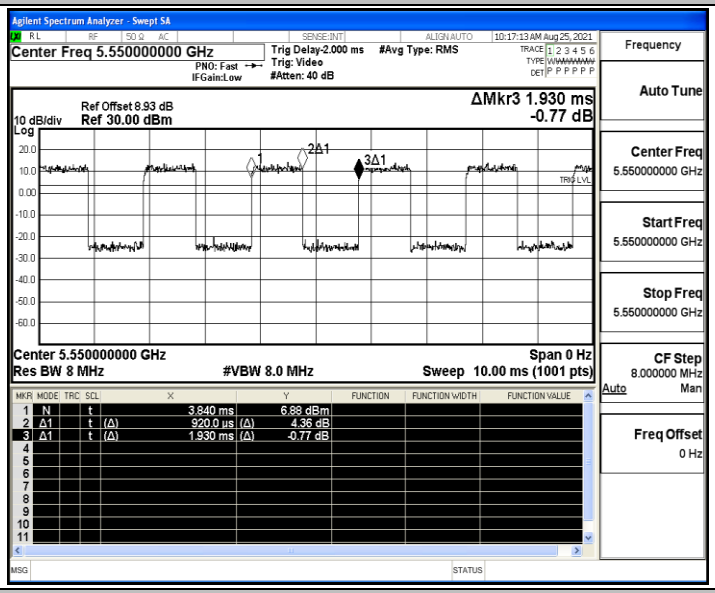

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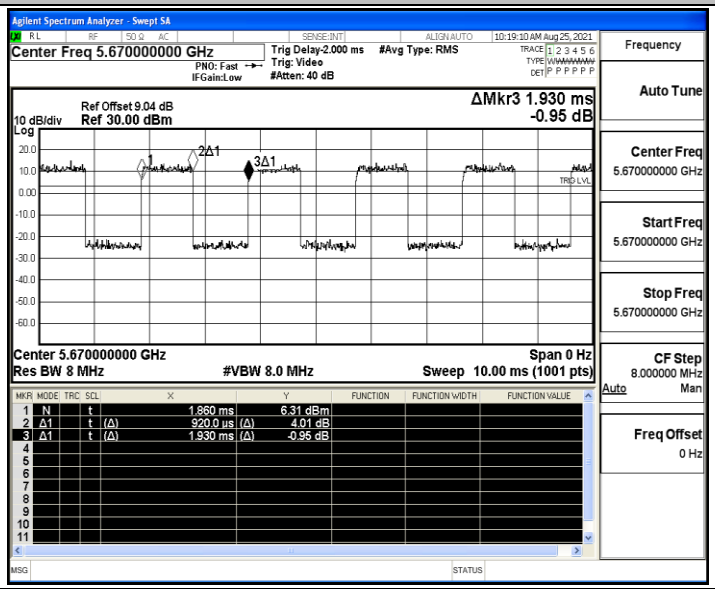

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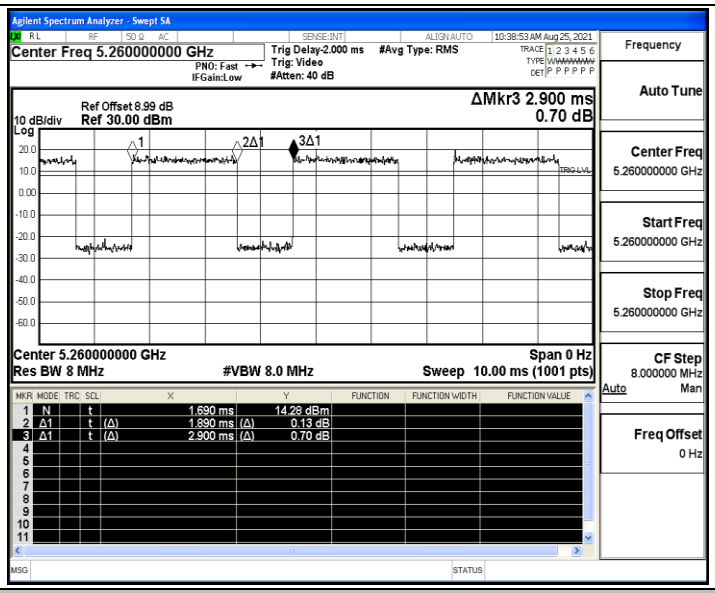

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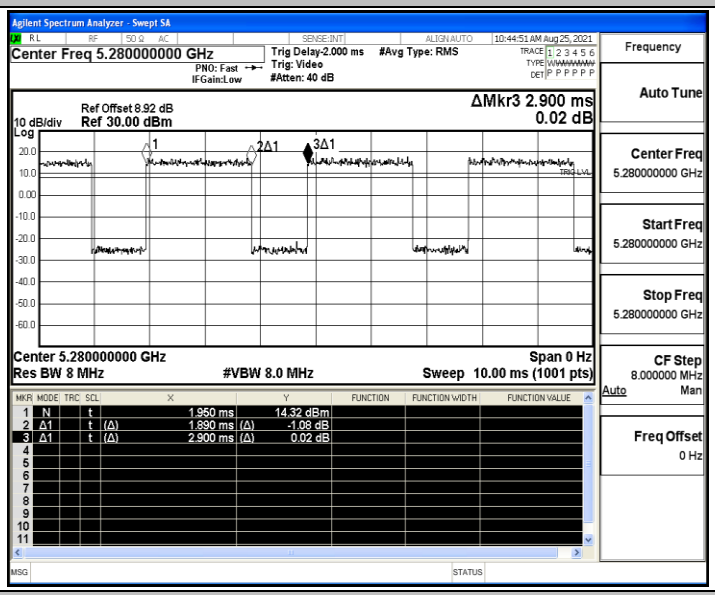

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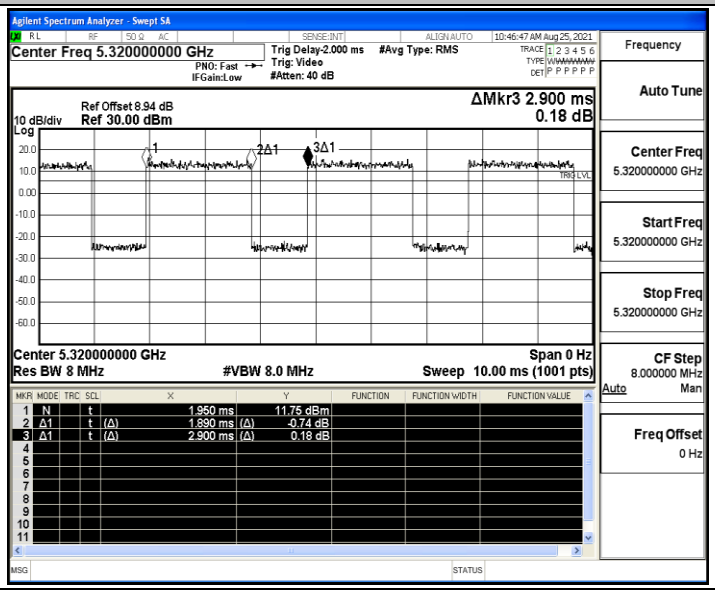

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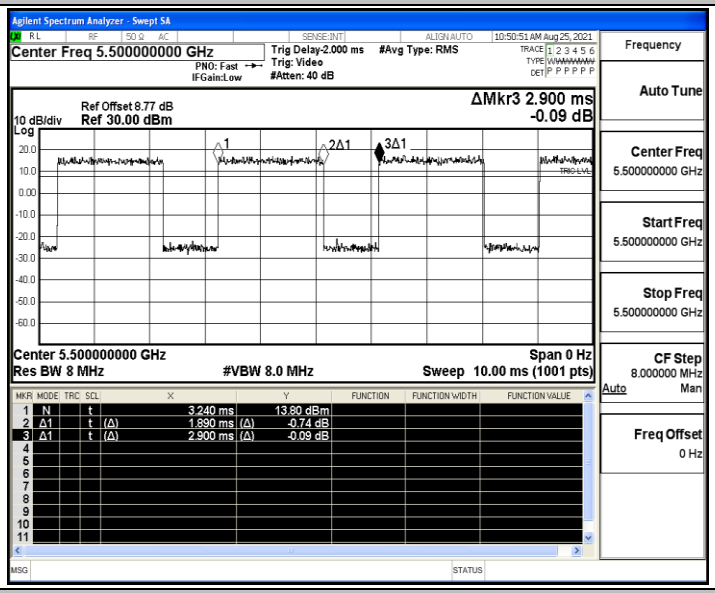

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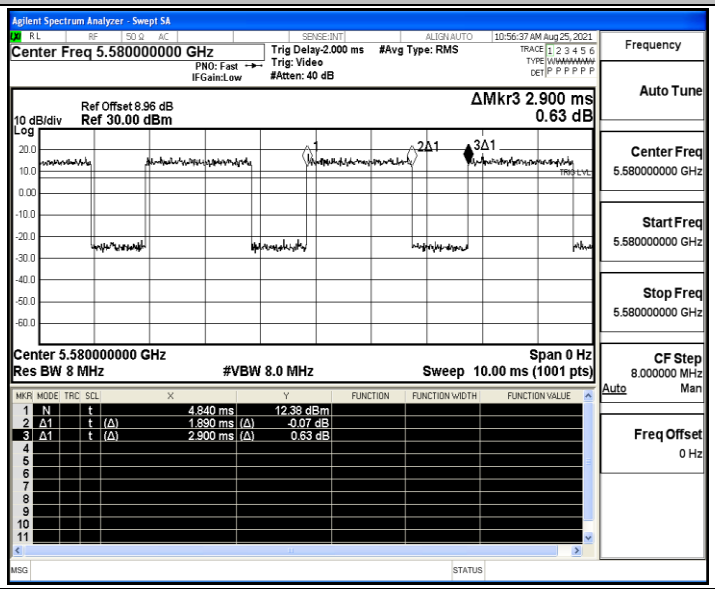

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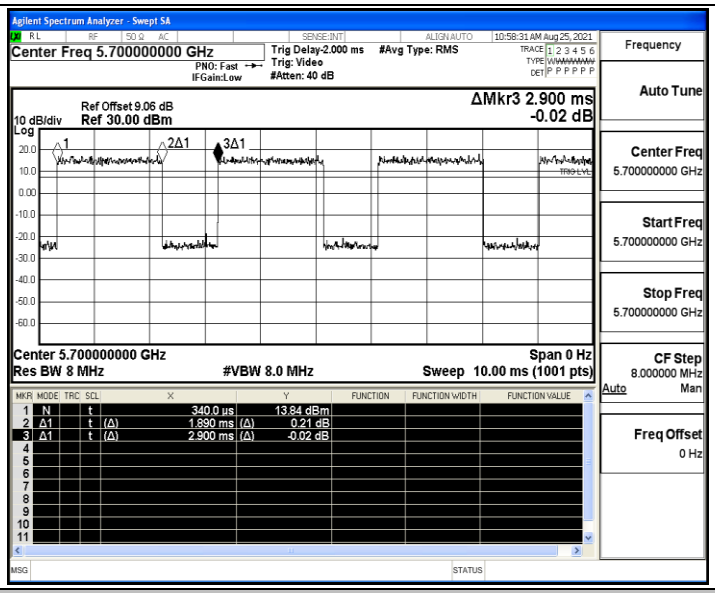

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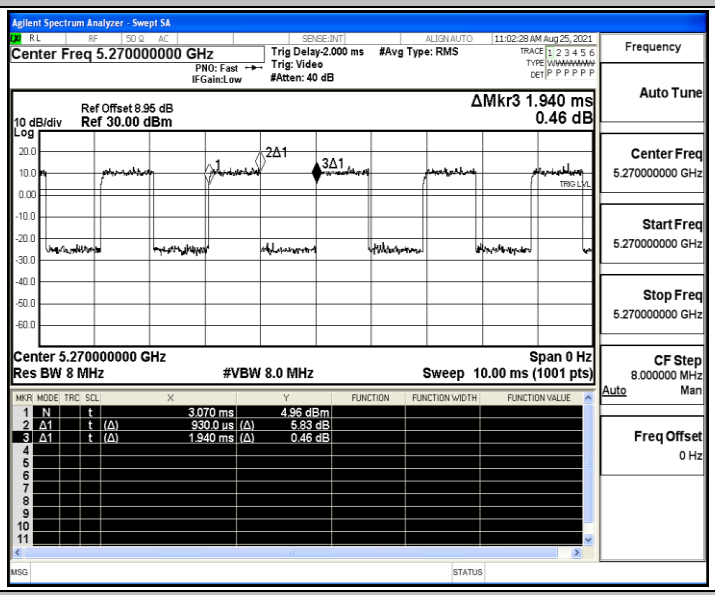

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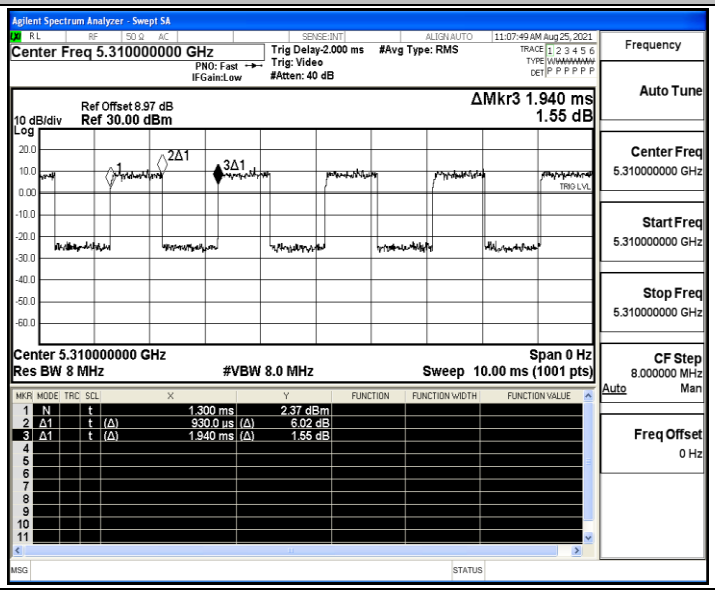
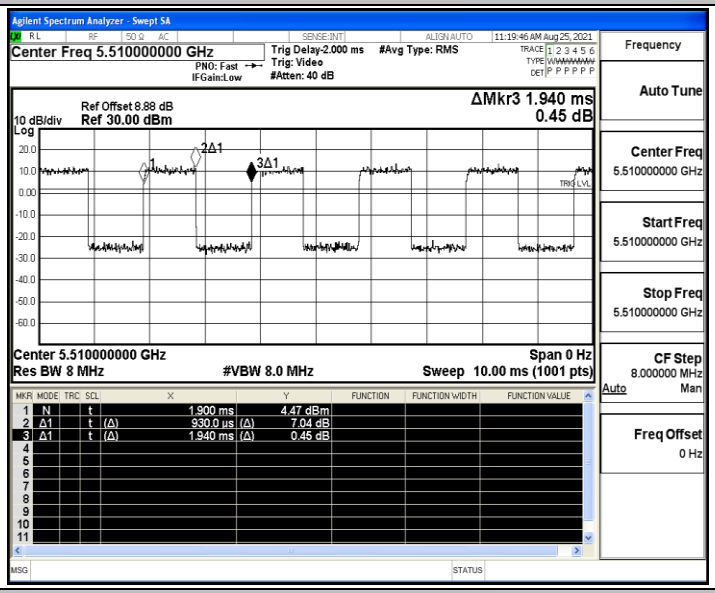


11AC40SISO_Ant1_5510



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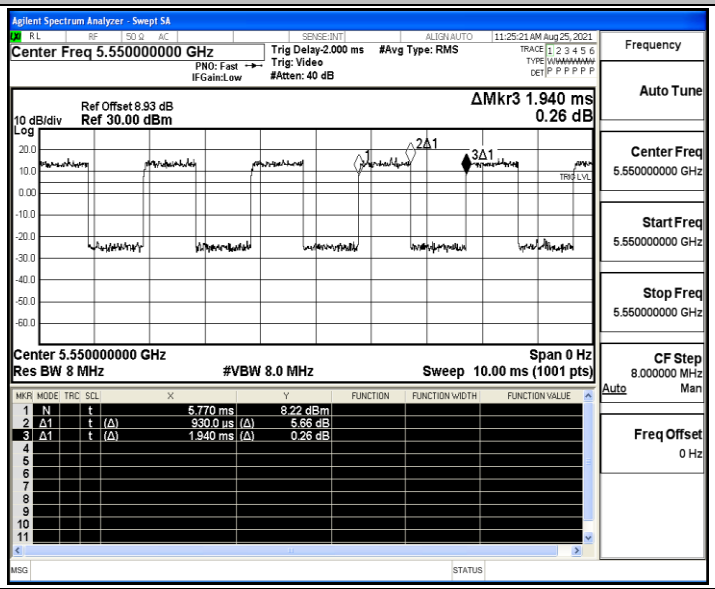

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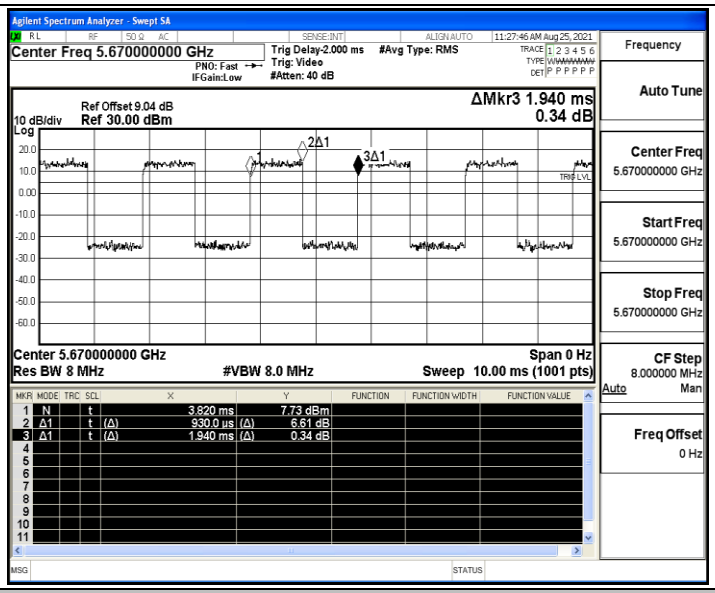
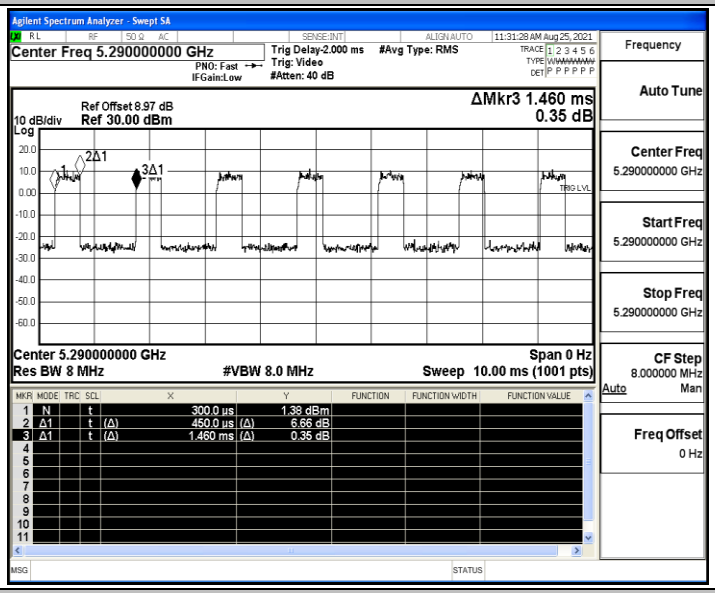


11AC80SISO_Ant1_5290



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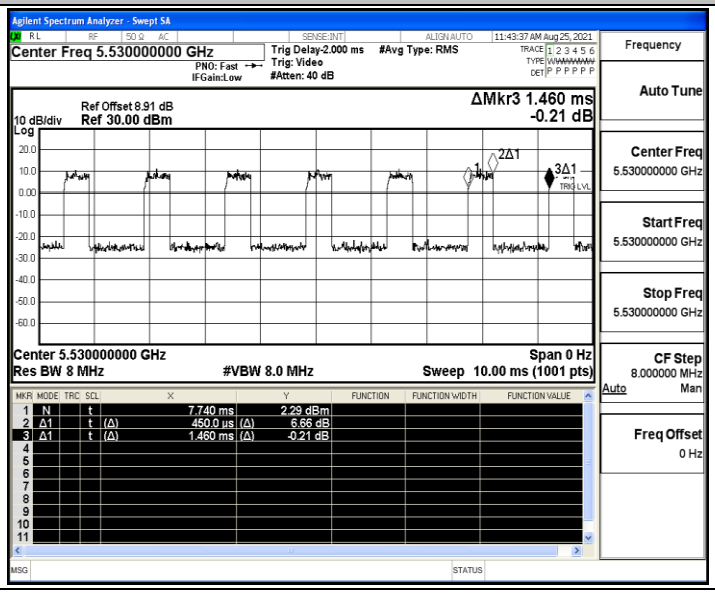

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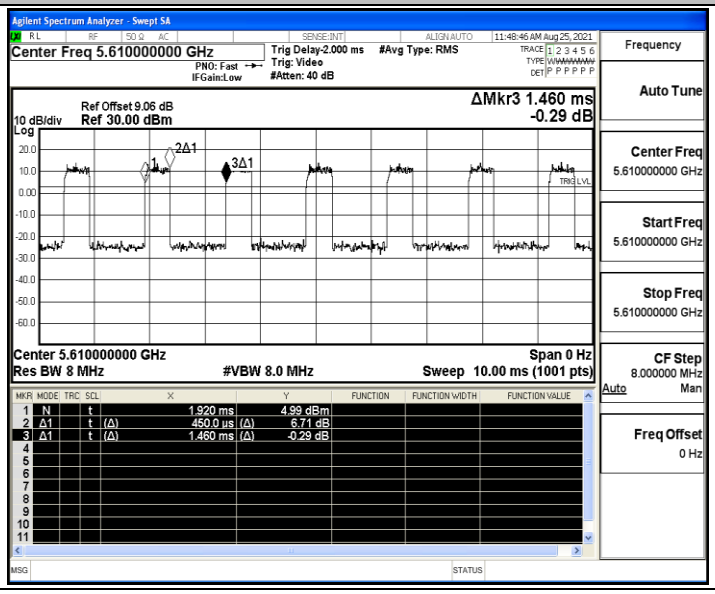


E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5260	12.11	≤23.98	PASS
		5280	11.88	≤23.98	PASS
		5320	11.81	≤23.98	PASS
		5500	11.49	≤23.98	PASS
		5580	12.99	≤23.98	PASS
		5700	13.66	≤23.98	PASS
11N20SISO	Ant1	5260	12.10	≤23.98	PASS
		5280	11.90	≤23.98	PASS
		5320	11.56	≤23.98	PASS
		5500	11.31	≤23.98	PASS
		5580	13.03	≤23.98	PASS
		5700	11.77	≤23.98	PASS
11N40SISO	Ant1	5270	12.60	≤23.98	PASS
		5310	10.52	≤23.98	PASS
		5510	10.69	≤23.98	PASS
		5550	11.57	≤23.98	PASS
		5670	11.31	≤23.98	PASS
11AC20SISO	Ant1	5260	12.08	≤23.98	PASS
		5280	11.90	≤23.98	PASS
		5320	9.99	≤23.98	PASS
		5500	11.69	≤23.98	PASS
		5580	11.13	≤23.98	PASS
		5700	11.59	≤23.98	PASS
11AC40SISO	Ant1	5270	10.82	≤23.98	PASS
		5310	10.70	≤23.98	PASS
		5510	10.53	≤23.98	PASS
		5550	13.65	≤23.98	PASS
		5670	13.57	≤23.98	PASS
11AC80SISO	Ant1	5290	11.08	≤23.98	PASS
		5530	11.74	≤23.98	PASS
		5610	12.31	≤23.98	PASS

Note：The Duty Cycle Factor is compensated in the graph.

E.3 Maximum power spectral density

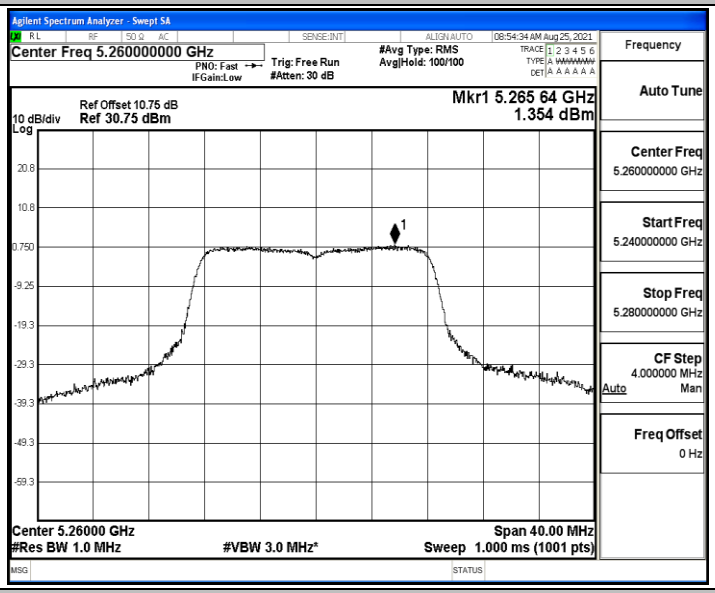
Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	1.35	≤11	PASS
		5280	1.16	≤11	PASS
		5320	1.25	≤11	PASS
		5500	1.09	≤11	PASS
		5580	2.24	≤11	PASS
		5700	2.87	≤11	PASS
11N20SISO	Ant1	5260	0.81	≤11	PASS
		5280	0.5	≤11	PASS
		5320	0.42	≤11	PASS
		5500	0.89	≤11	PASS
		5580	2.41	≤11	PASS
		5700	0.56	≤11	PASS
11N40SISO	Ant1	5270	-1.48	≤11	PASS
		5310	-3.73	≤11	PASS
		5510	-3.48	≤11	PASS
		5550	-2.25	≤11	PASS
		5670	-2.99	≤11	PASS
11AC20SISO	Ant1	5260	1.34	≤11	PASS
		5280	1.36	≤11	PASS
		5320	-1.43	≤11	PASS
		5500	0.97	≤11	PASS
		5580	0.24	≤11	PASS
		5700	0.67	≤11	PASS
11AC40SISO	Ant1	5270	-3.47	≤11	PASS
		5310	-3.7	≤11	PASS
		5510	-3.01	≤11	PASS
		5550	0.21	≤11	PASS
		5670	-0.07	≤11	PASS
11AC80SISO	Ant1	5290	-5.02	≤11	PASS
		5530	-3.1	≤11	PASS
		5610	-3.25	≤11	PASS

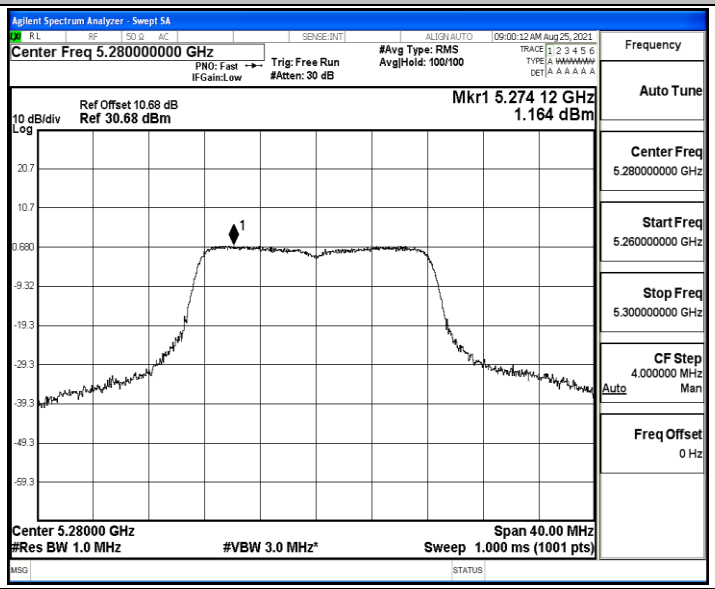
Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant1_5260



11A_Ant1_5280



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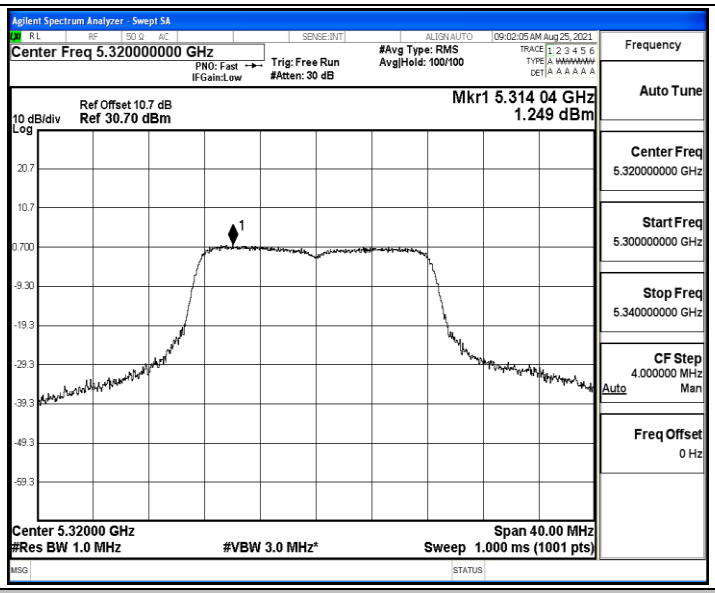

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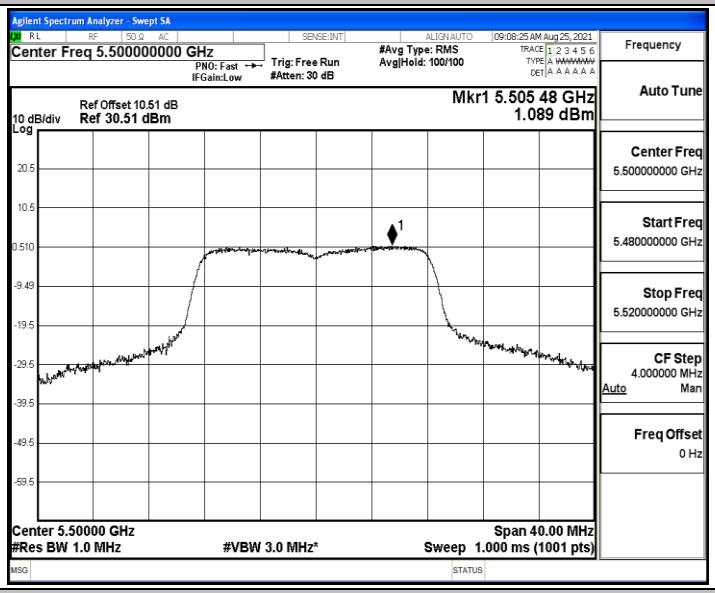
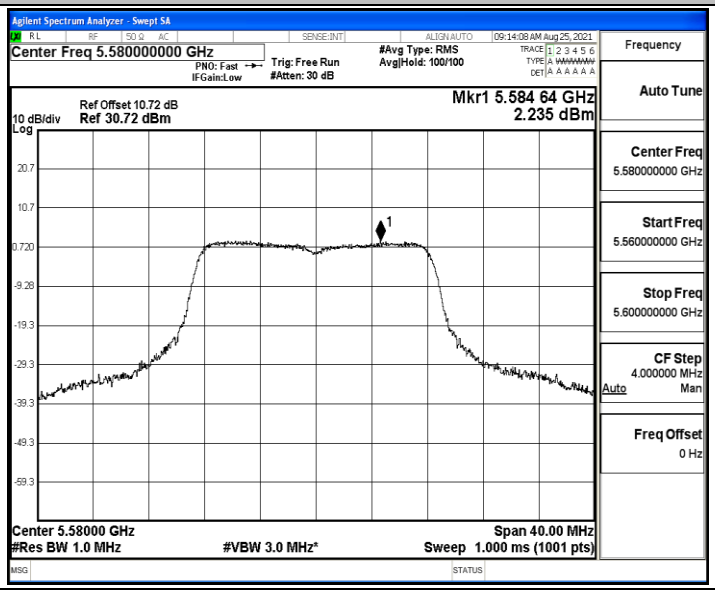


11A_Ant1_5580



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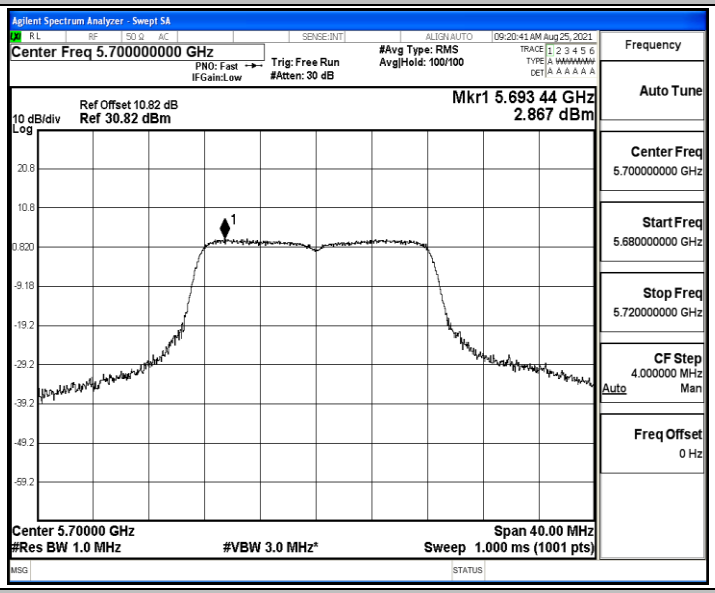

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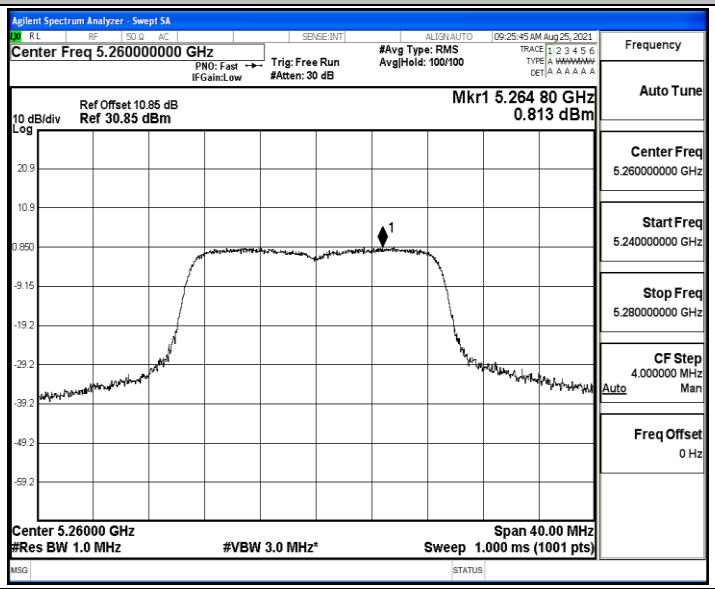

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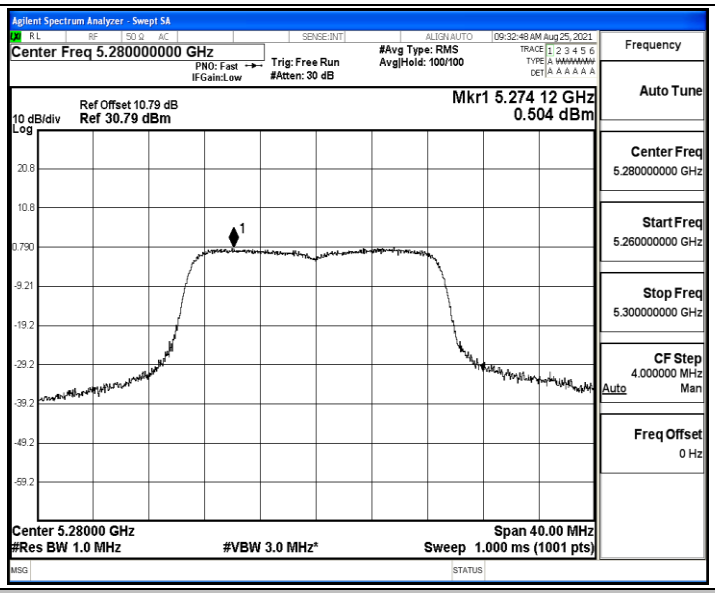
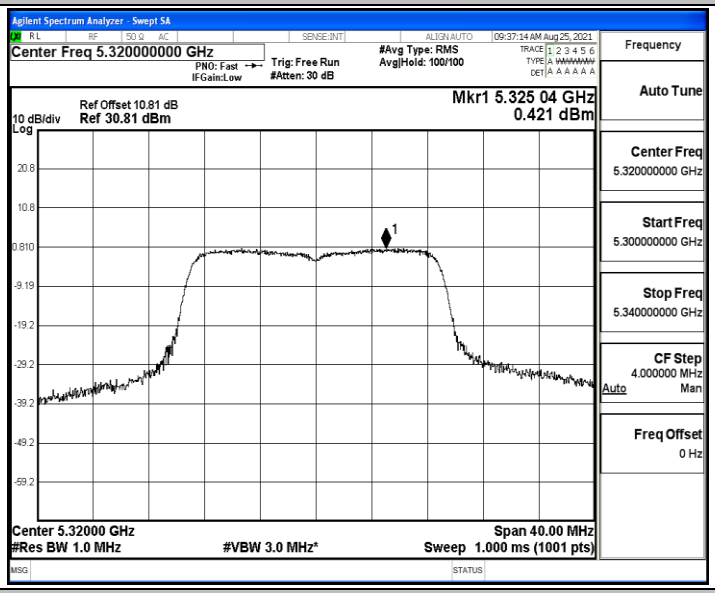


11N20SISO_Ant1_5320



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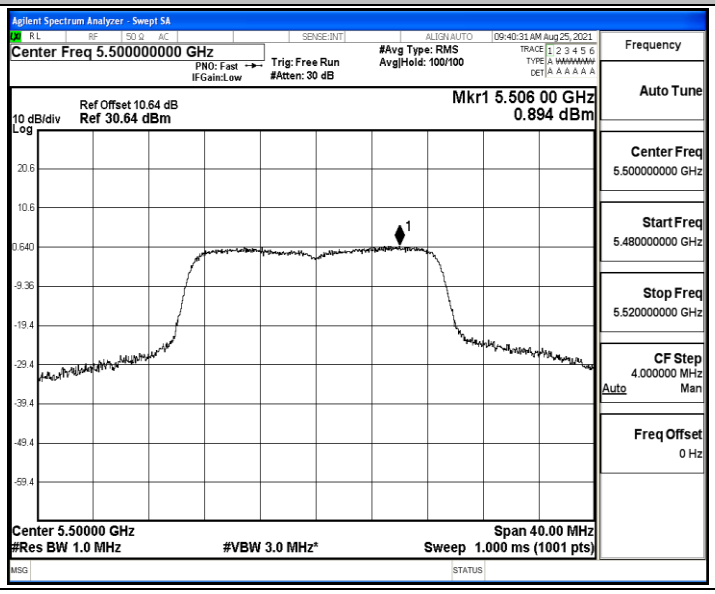

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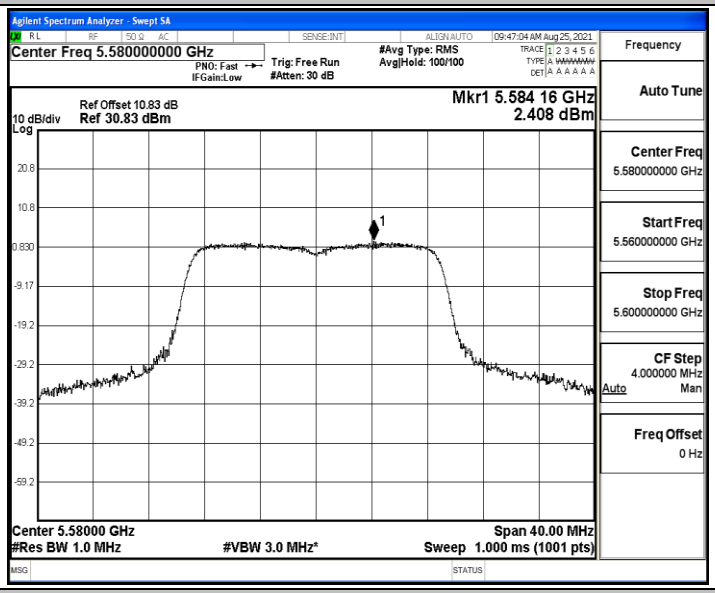

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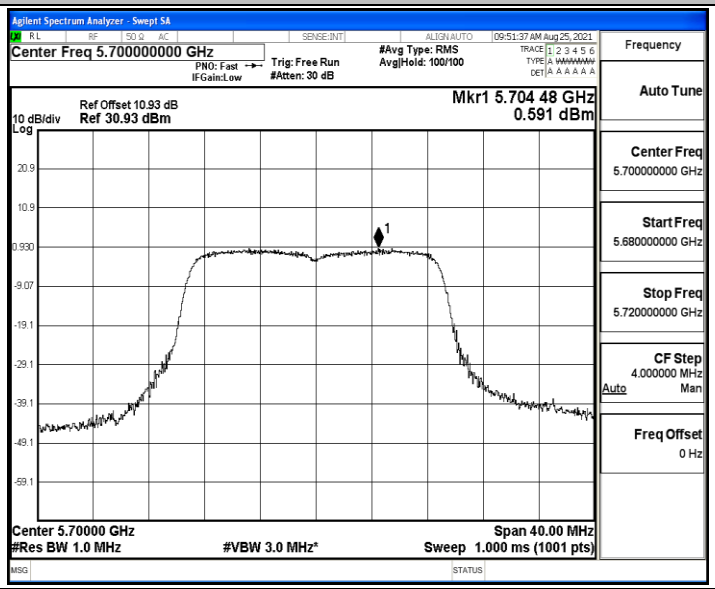

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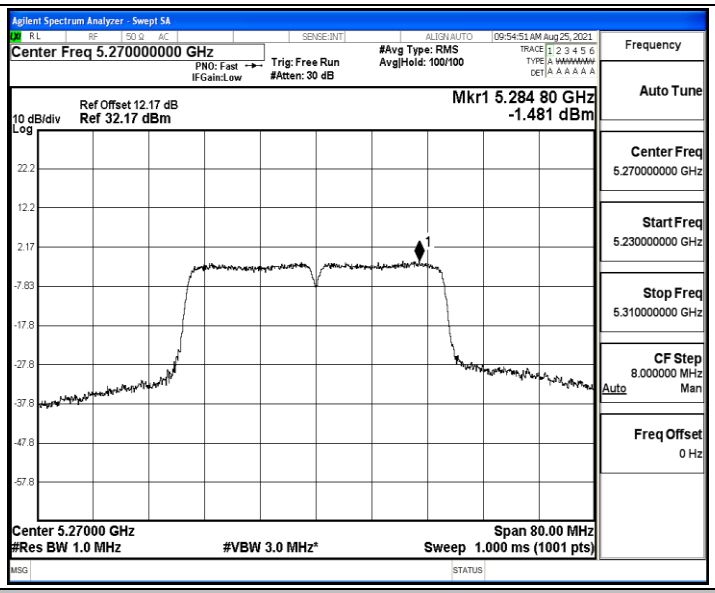

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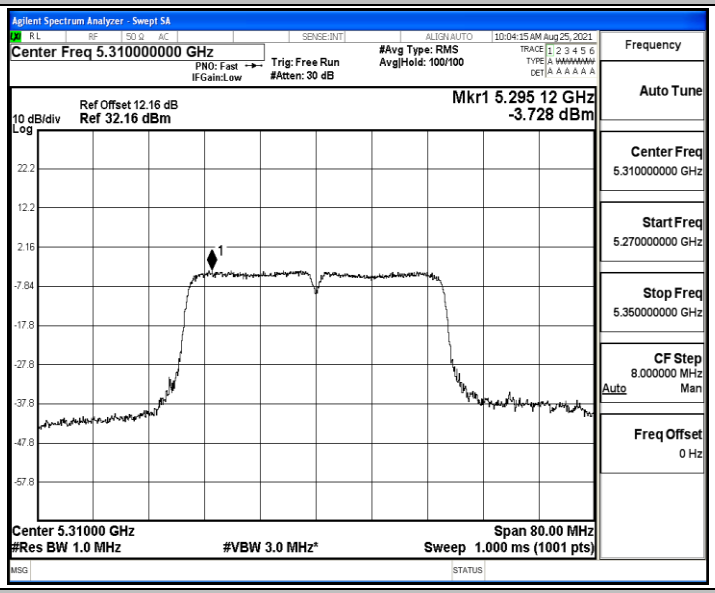

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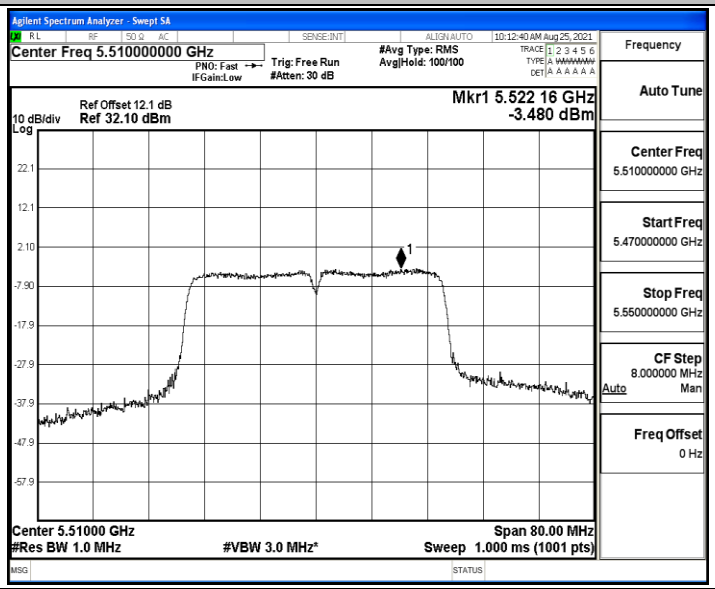

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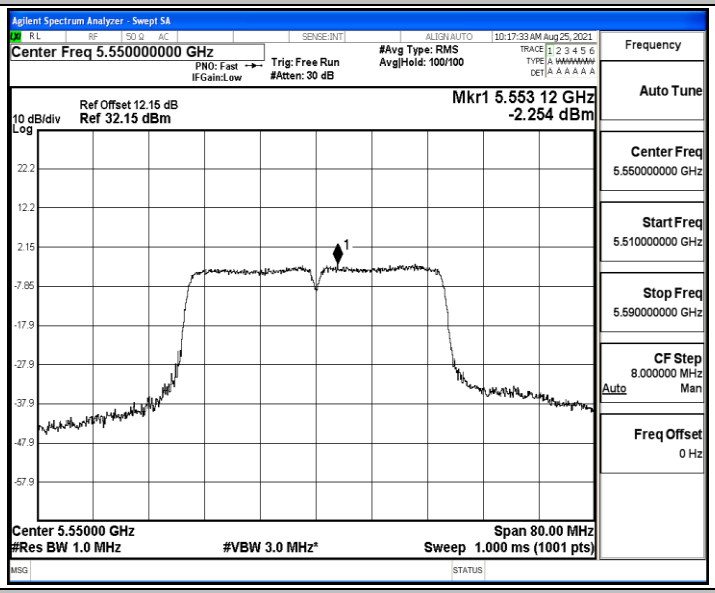

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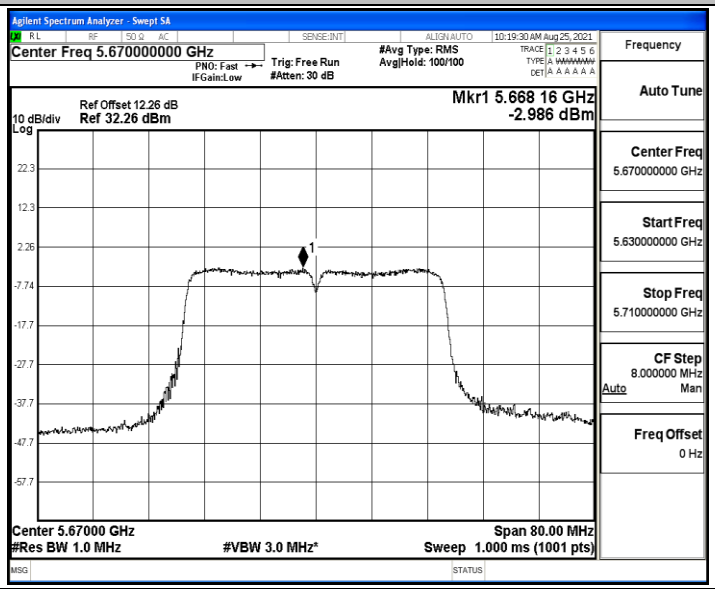

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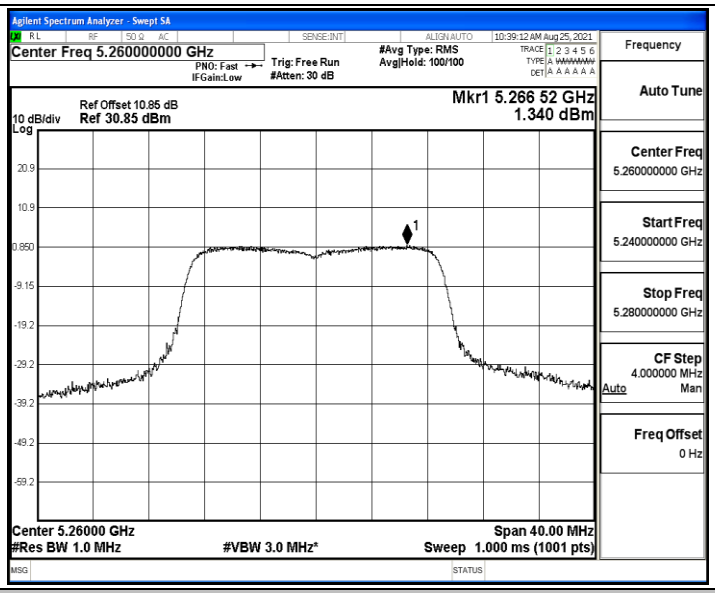

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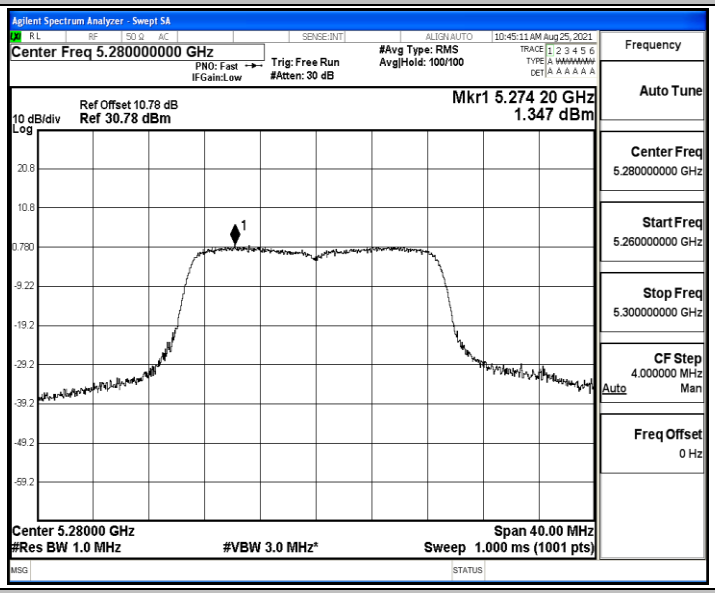

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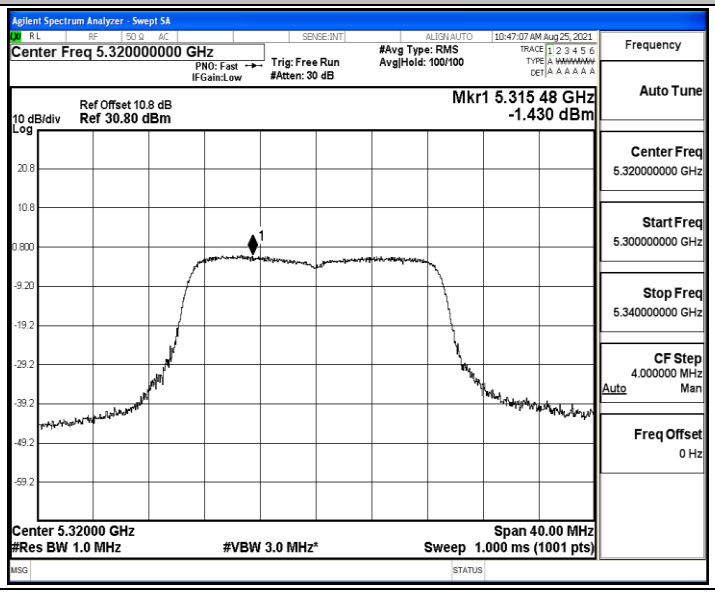

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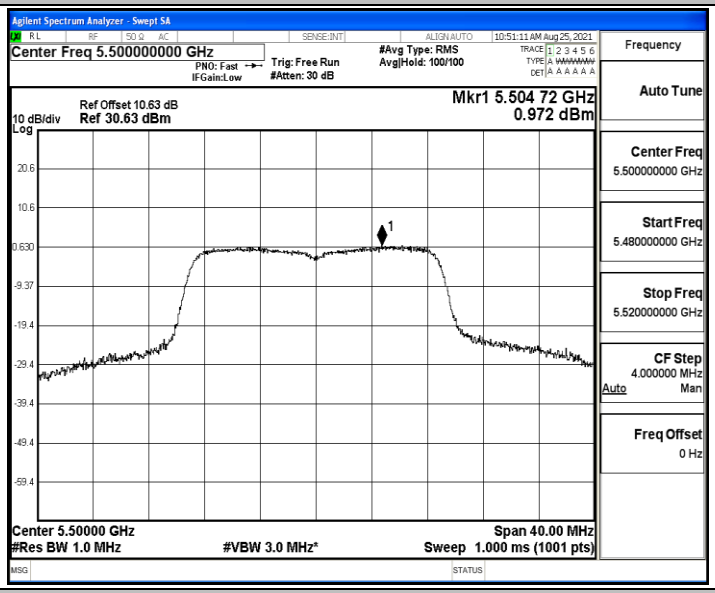

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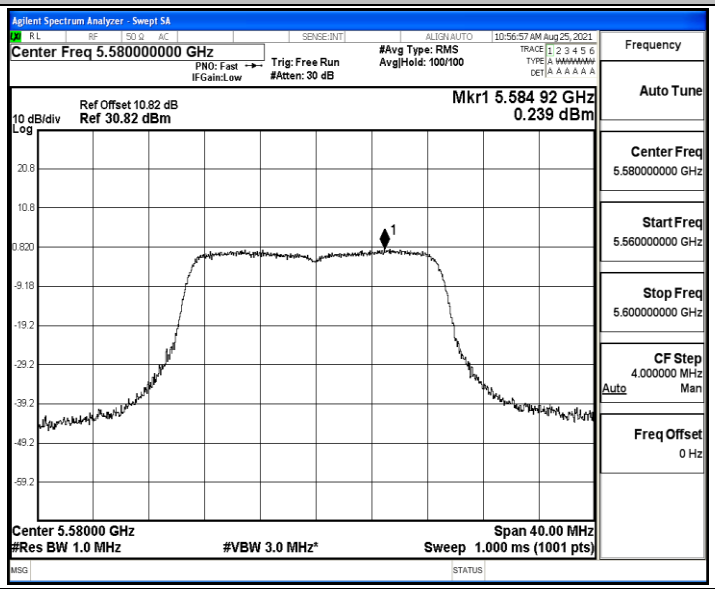

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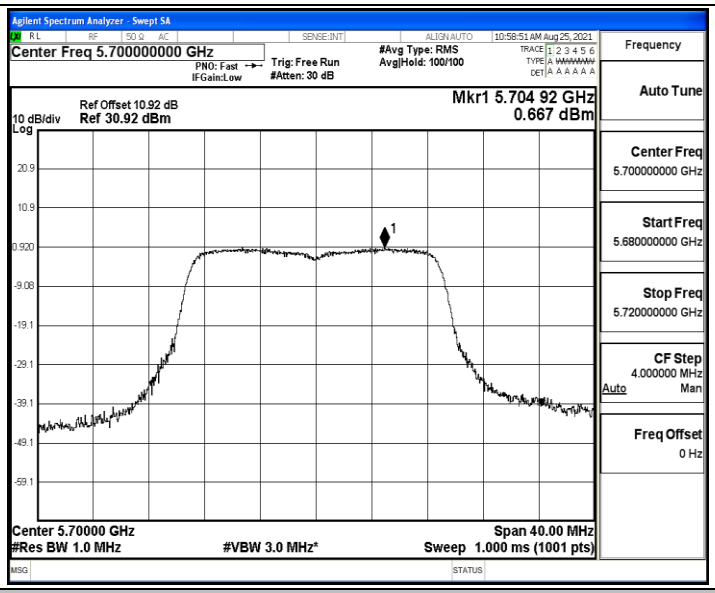

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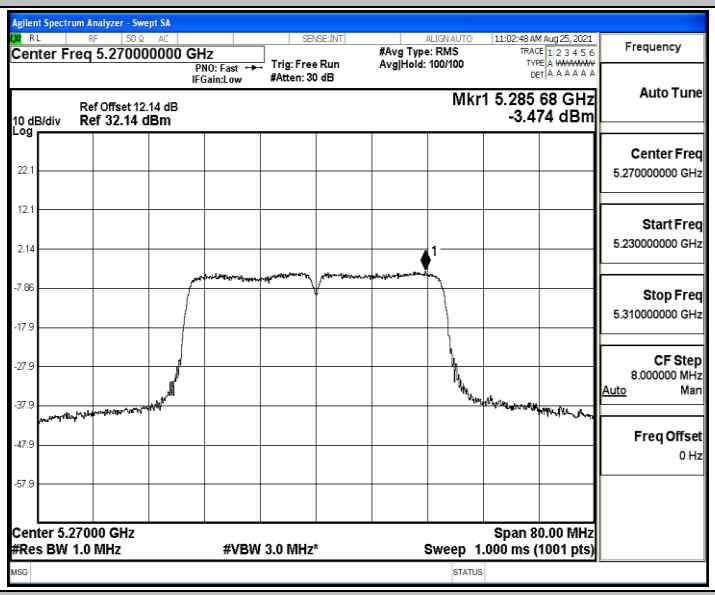

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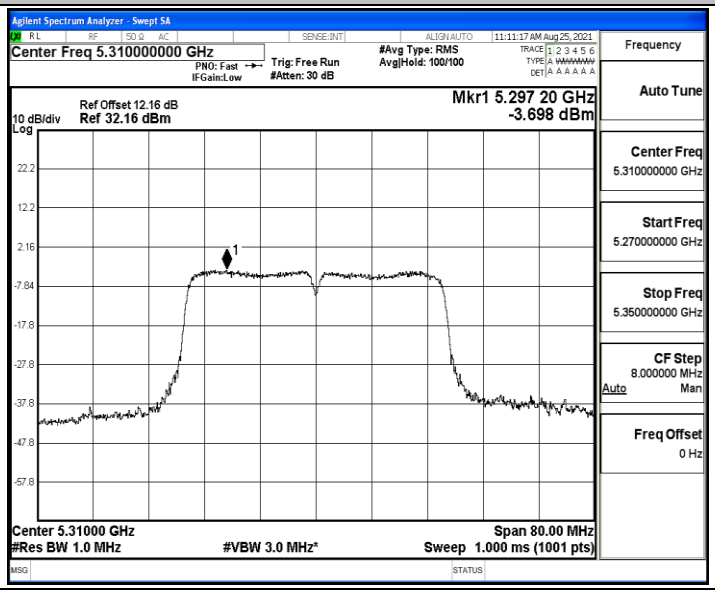

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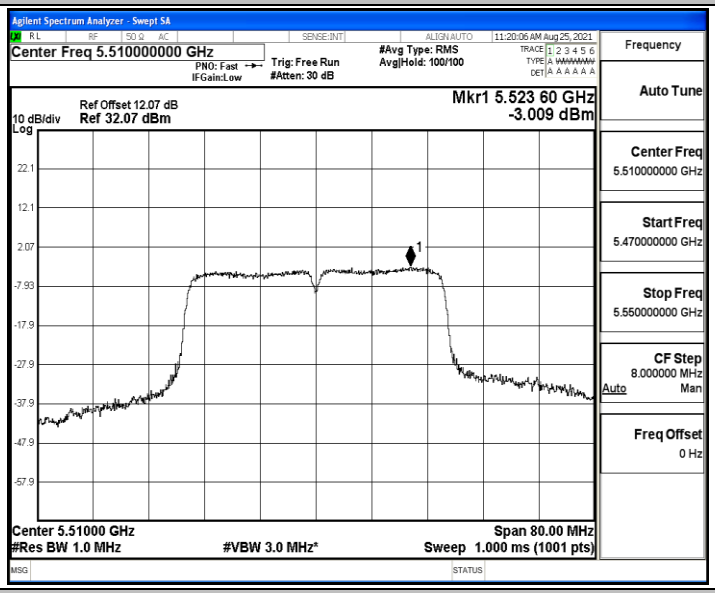

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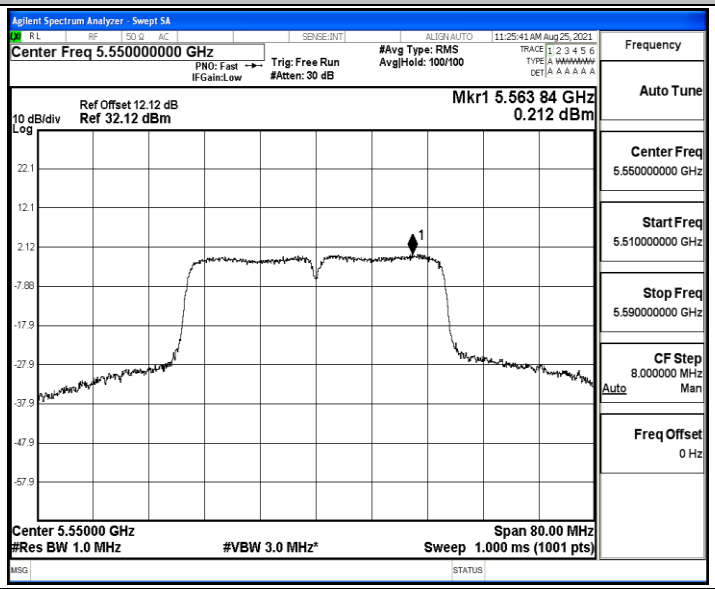

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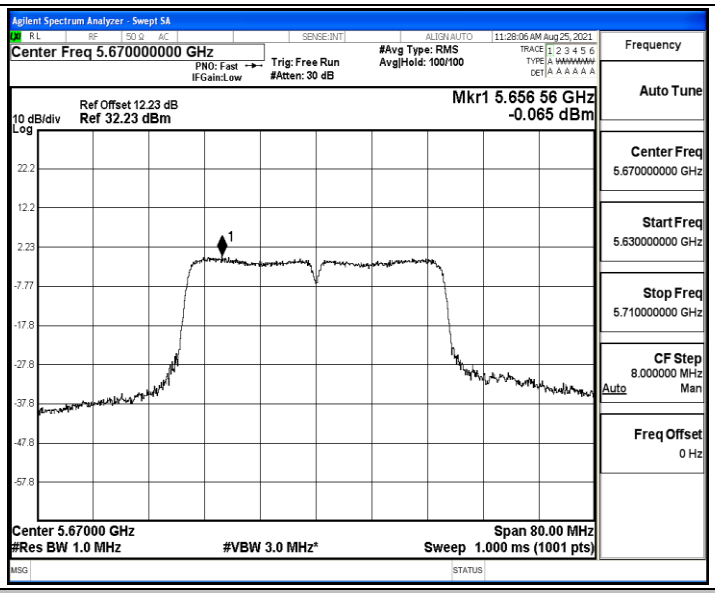

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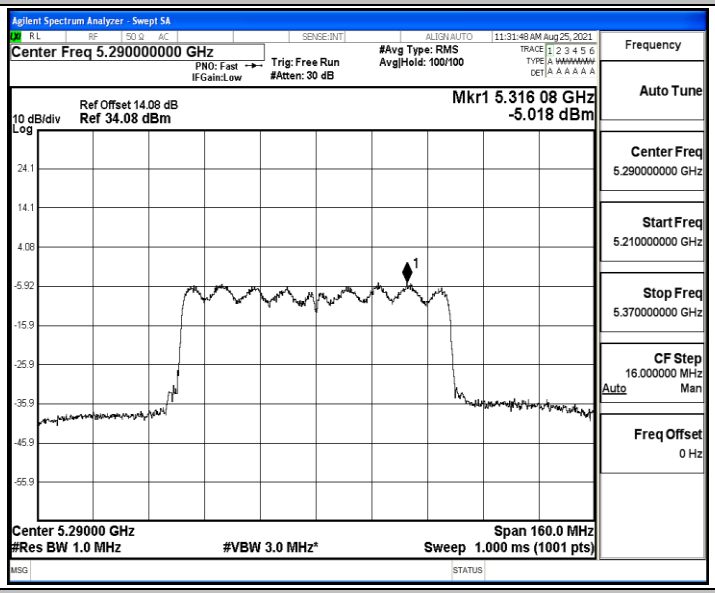

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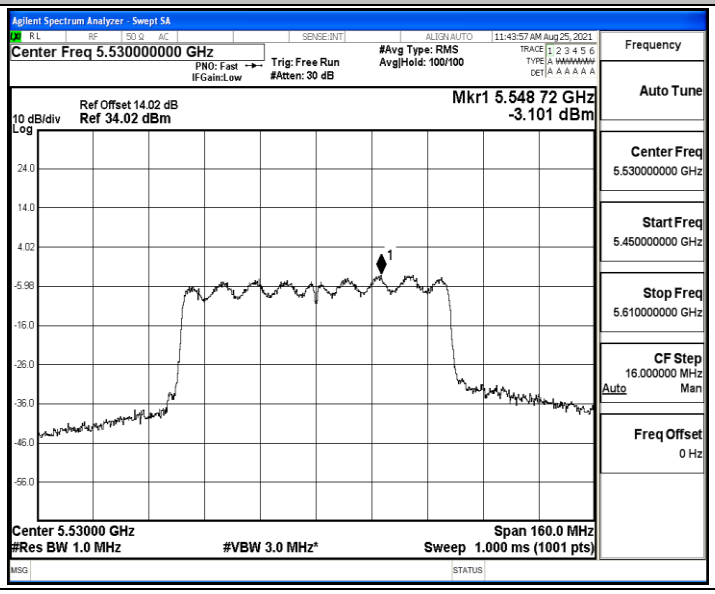

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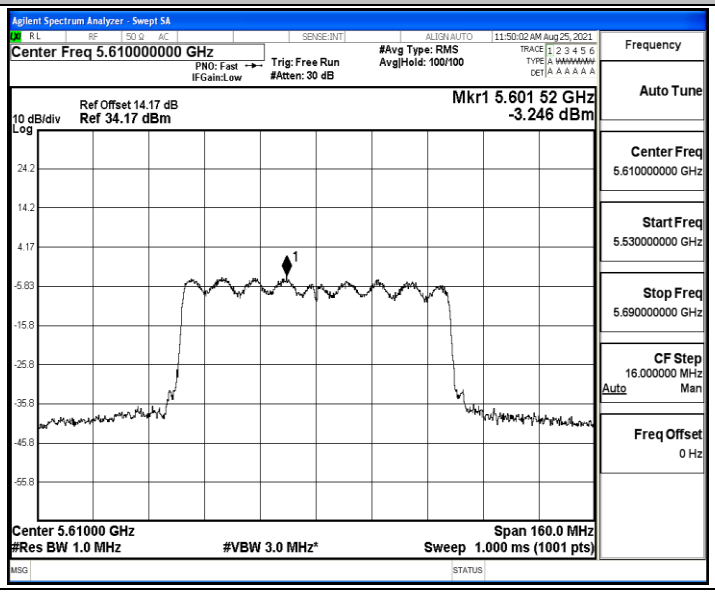


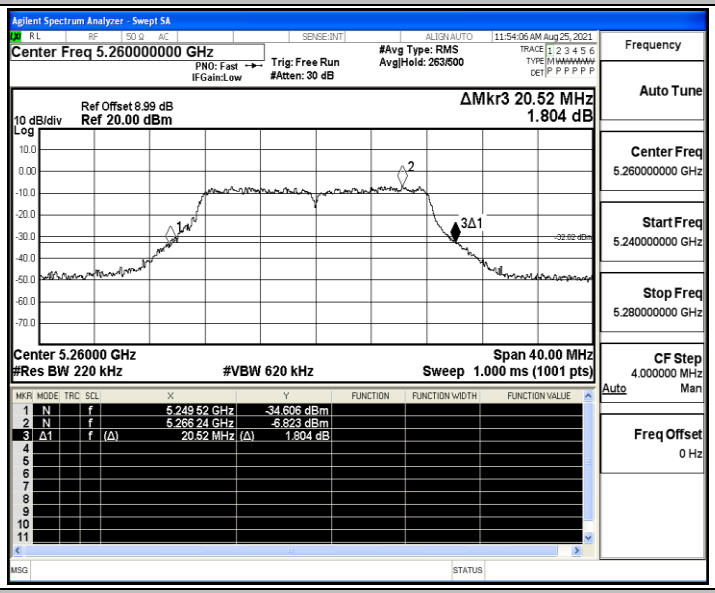
E.4 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	20.520	5249.520	5270.040	---	PASS
		5280	20.320	5269.800	5290.120	---	PASS
		5320	20.760	5309.440	5330.200	---	PASS
		5500	20.760	5489.440	5510.200	---	PASS
		5580	20.480	5569.560	5590.040	---	PASS
		5700	20.480	5689.560	5710.040	---	PASS
11N20SISO	Ant1	5260	21.040	5249.320	5270.360	---	PASS
		5280	21.080	5269.320	5290.400	---	PASS
		5320	21.240	5309.160	5330.400	---	PASS
		5500	21.360	5489.200	5510.560	---	PASS
		5580	21.440	5569.080	5590.520	---	PASS
		5700	20.960	5689.520	5710.480	---	PASS
11N40SISO	Ant1	5270	42.480	5248.560	5291.040	---	PASS
		5310	42.240	5288.720	5330.960	---	PASS
		5510	42.240	5488.880	5531.120	---	PASS
		5550	41.680	5529.280	5570.960	---	PASS
		5670	42.000	5648.800	5690.800	---	PASS
11AC20SISO	Ant1	5260	21.000	5249.320	5270.320	---	PASS
		5280	21.080	5269.240	5290.320	---	PASS
		5320	21.040	5309.320	5330.360	---	PASS
		5500	21.040	5489.480	5510.520	---	PASS
		5580	21.200	5569.280	5590.480	---	PASS
		5700	21.240	5689.160	5710.400	---	PASS
11AC40SISO	Ant1	5270	42.160	5248.960	5291.120	---	PASS
		5310	41.840	5289.040	5330.880	---	PASS
		5510	42.480	5488.720	5531.200	---	PASS
		5550	41.920	5529.280	5571.200	---	PASS
		5670	41.920	5649.040	5690.960	---	PASS
11AC80SISO	Ant1	5290	82.880	5248.720	5331.600	---	PASS
		5530	82.880	5489.200	5572.080	---	PASS
		5610	82.560	5568.880	5651.440	---	PASS

Test Graphs

11A_Ant1_5260



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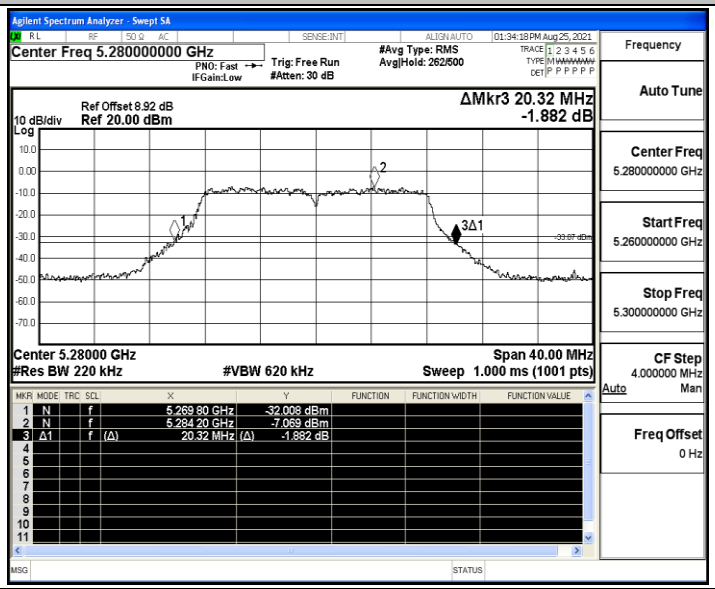

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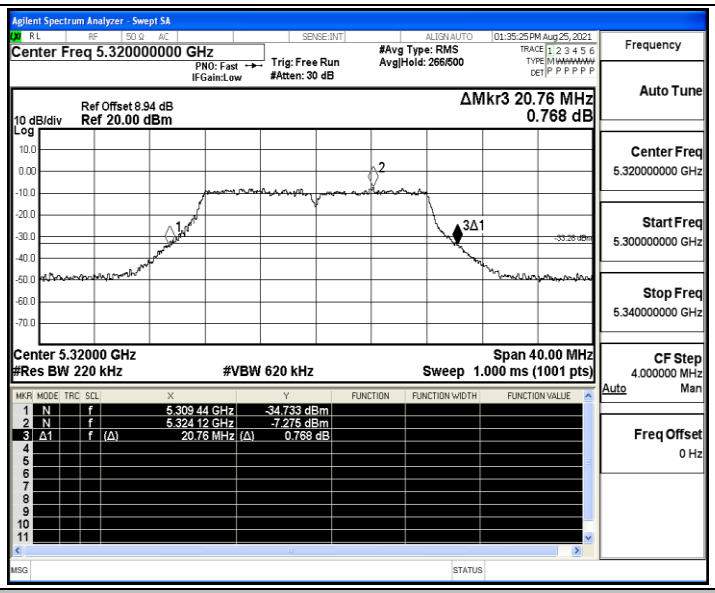

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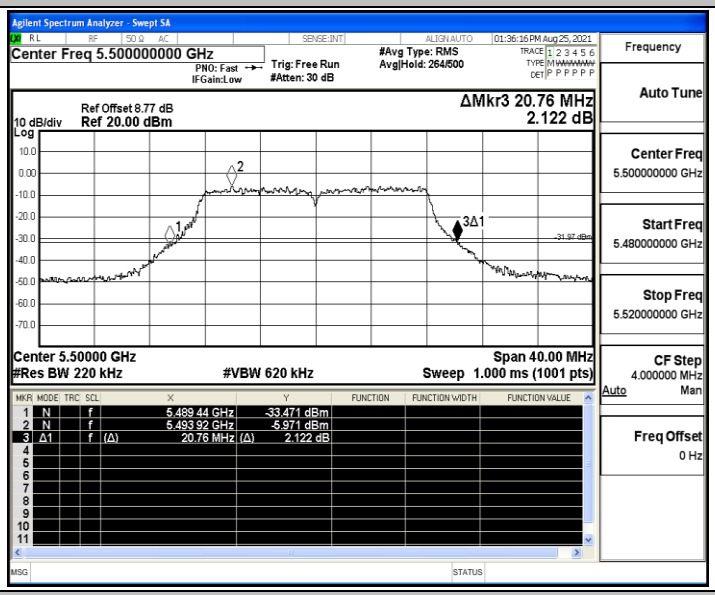

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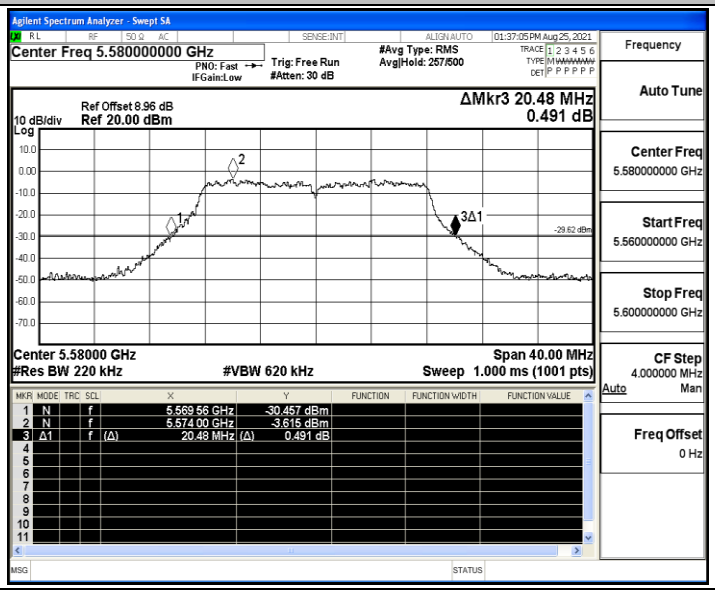

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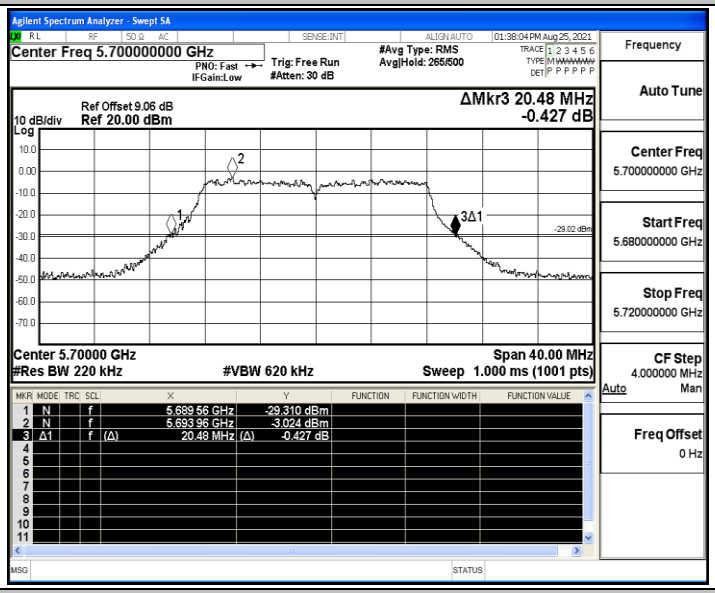

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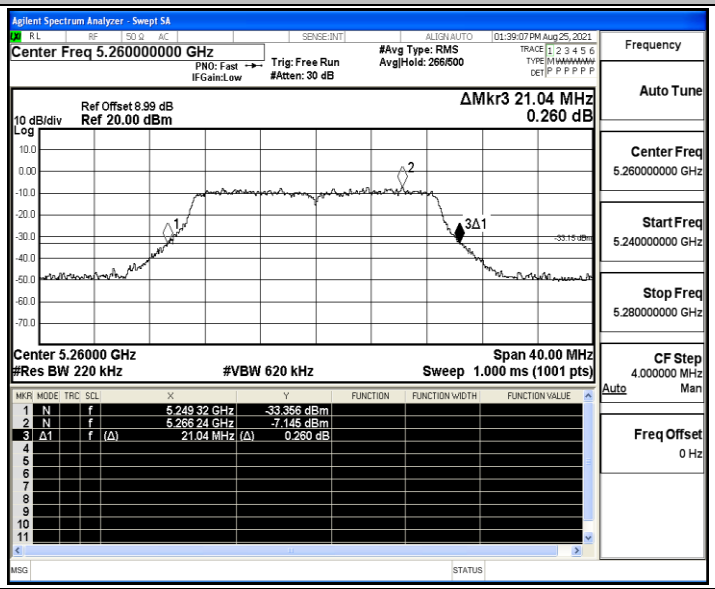

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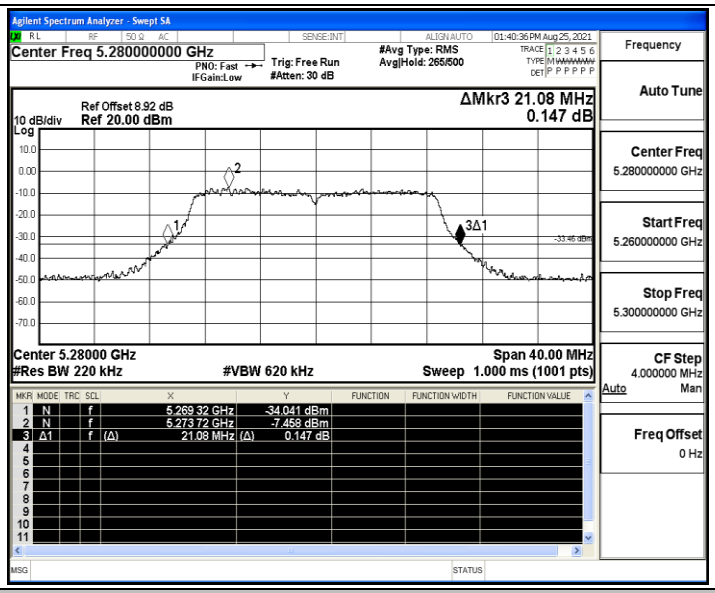

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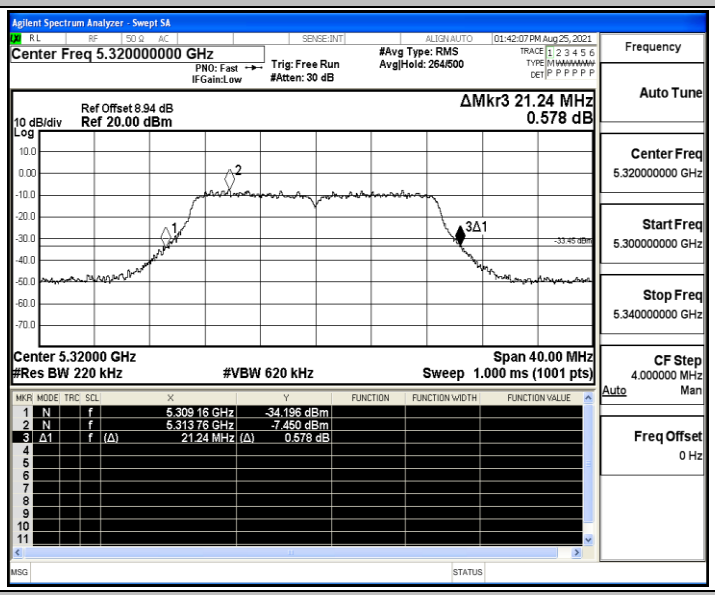

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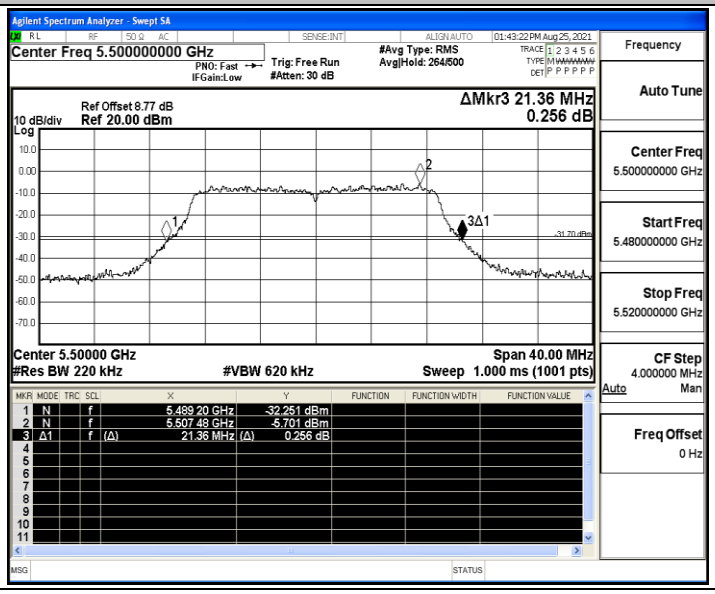

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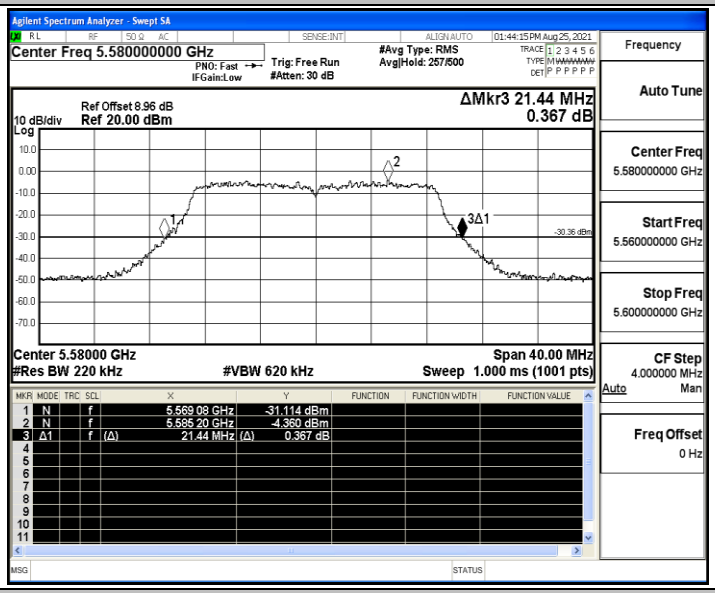

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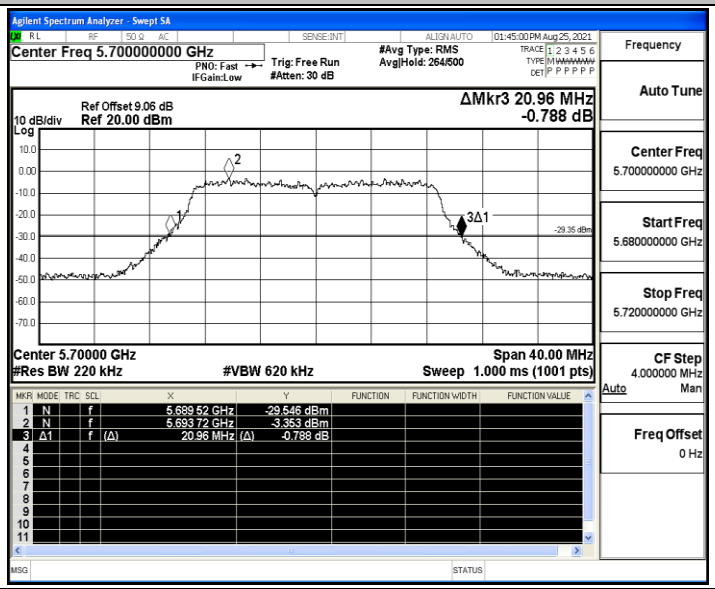

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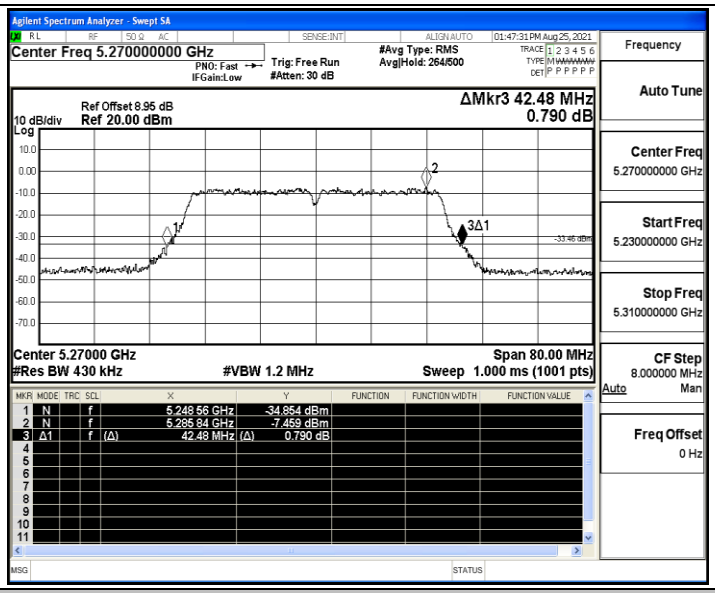

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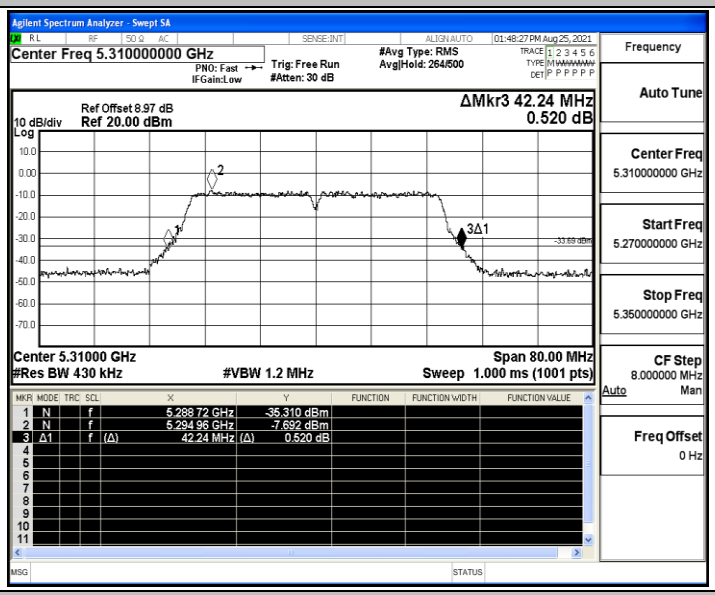

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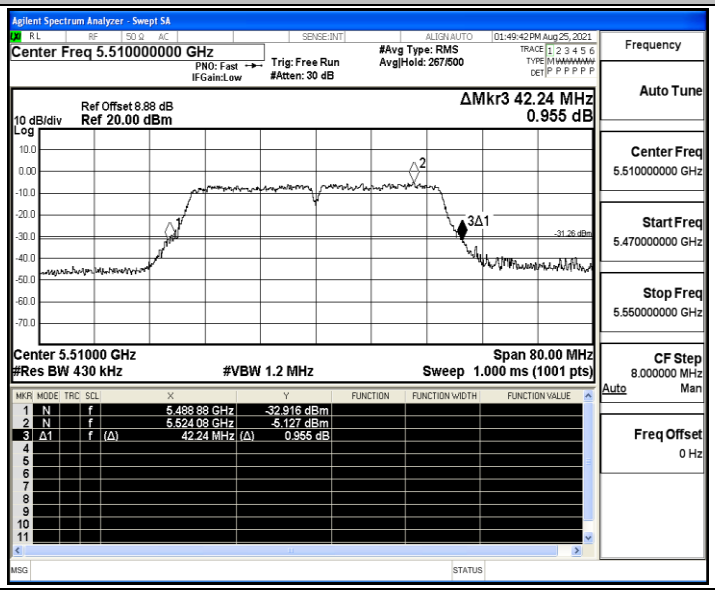

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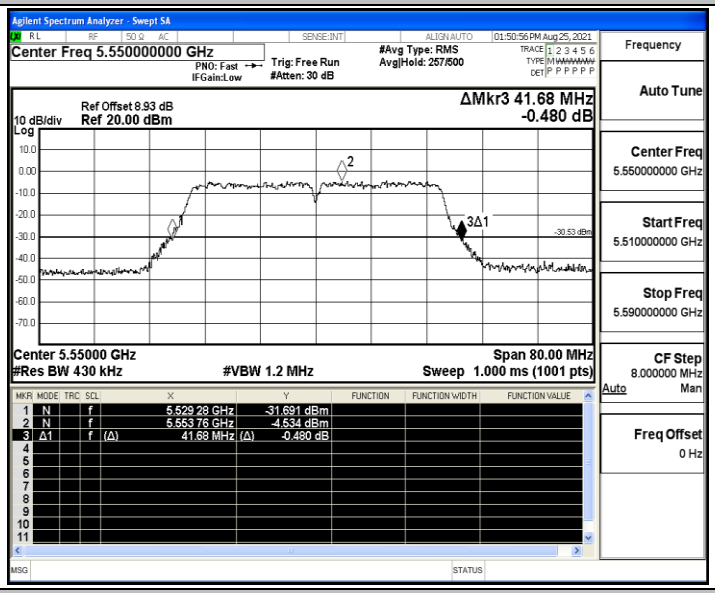

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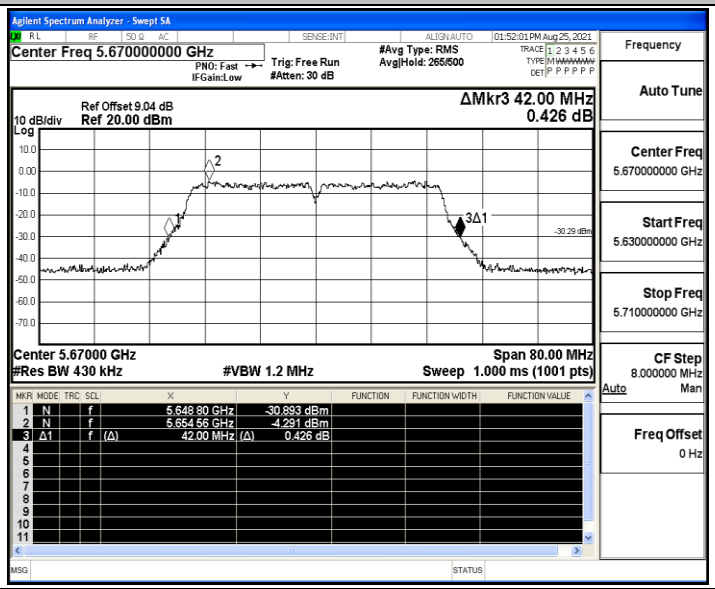

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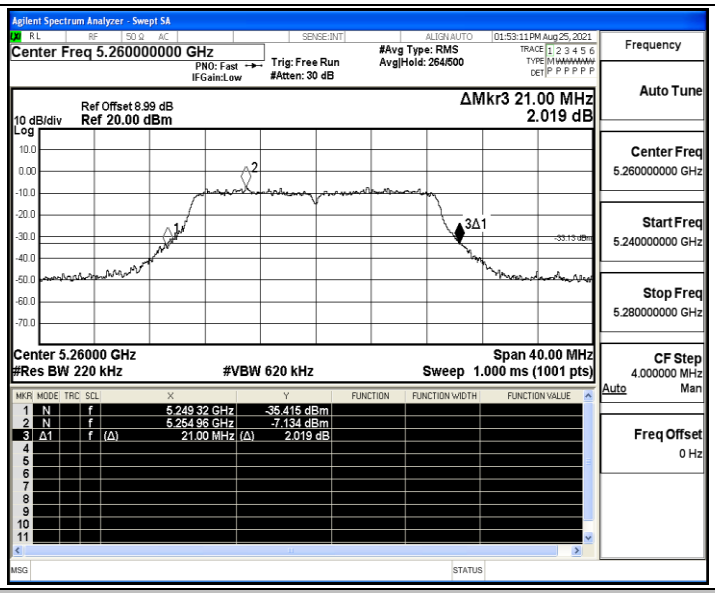

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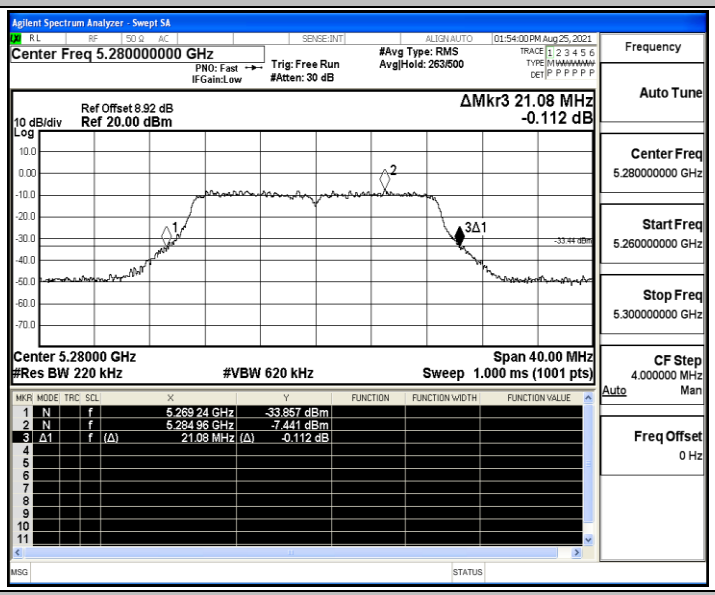

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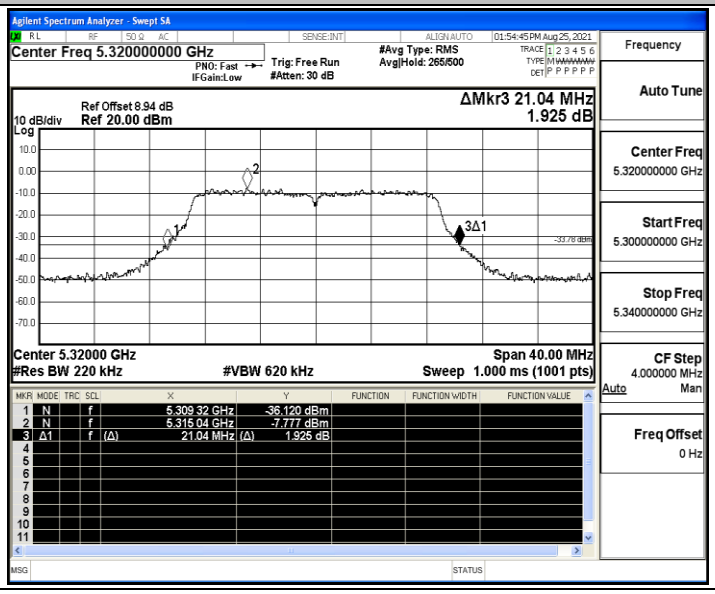

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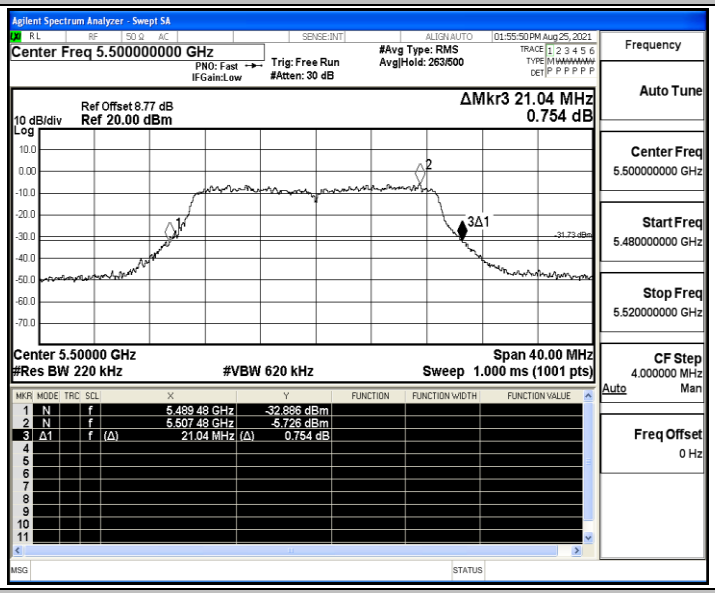

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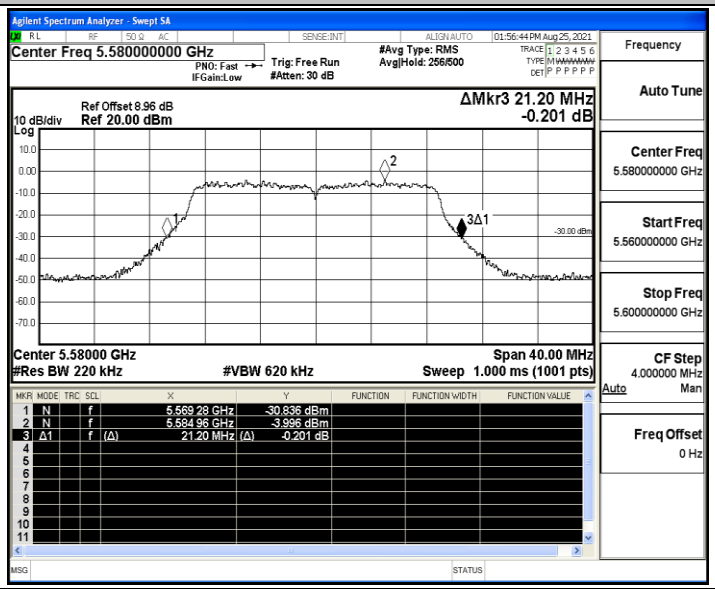

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