Appendix C

RF Test Data for 5.2&5.3&5.5G WIFI (Conducted Measurement)

Product Name: LAVA ME3

Test Model: LAVA ME3

Environmental Conditions

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

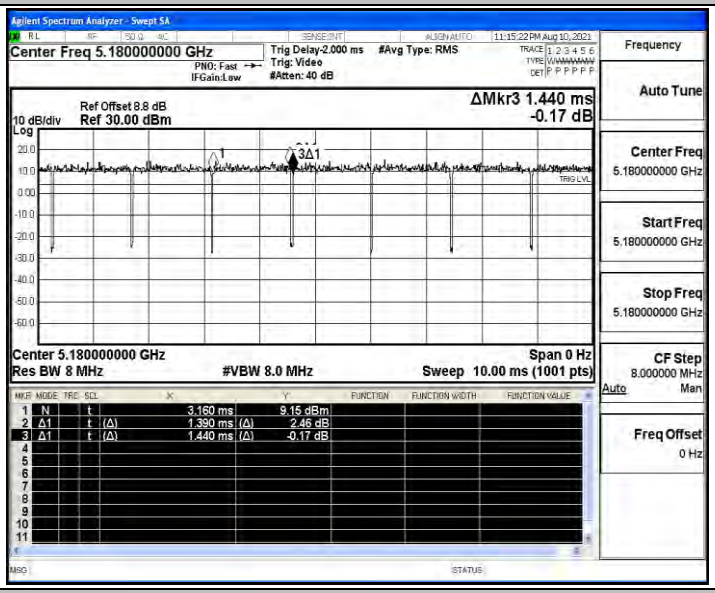
C.1 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.39	1.44	96.53	---	PASS
		5200	1.39	1.44	96.53	---	PASS
		5240	1.39	1.44	96.53	---	PASS
		5260	1.39	1.44	96.53	---	PASS
		5280	1.39	1.44	96.53	---	PASS
		5320	1.39	1.44	96.53	---	PASS
		5500	1.39	1.44	96.53	---	PASS
		5580	1.39	1.44	96.53	---	PASS
		5700	1.39	1.44	96.53	---	PASS
11N20SISO	Ant1	5180	1.30	1.35	96.30	---	PASS
		5200	1.30	1.35	96.30	---	PASS
		5240	1.30	1.35	96.30	---	PASS
		5260	1.30	1.35	96.30	---	PASS
		5280	1.30	1.35	96.30	---	PASS
		5320	1.30	1.35	96.30	---	PASS
		5500	1.30	1.35	96.30	---	PASS
		5580	1.30	1.35	96.30	---	PASS
		5700	1.30	1.34	97.01	---	PASS
11N40SISO	Ant1	5190	0.64	0.68	94.12	---	PASS
		5230	0.64	0.68	94.12	---	PASS
		5270	0.64	0.68	94.12	---	PASS
		5310	0.64	0.68	94.12	---	PASS
		5510	0.64	0.68	94.12	---	PASS
		5590	0.64	0.68	94.12	---	PASS
		5670	0.64	0.68	94.12	---	PASS
11AC20SISO	Ant1	5180	1.30	1.34	97.01	---	PASS
		5200	1.30	1.34	97.01	---	PASS
		5240	1.30	1.34	97.01	---	PASS
		5260	1.30	1.34	97.01	---	PASS
		5280	1.30	1.34	97.01	---	PASS
		5320	1.30	1.34	97.01	---	PASS
		5500	1.30	1.34	97.01	---	PASS
		5580	1.30	1.34	97.01	---	PASS
		5700	1.30	1.34	97.01	---	PASS
11AC40SISO	Ant1	5190	0.64	0.68	94.12	---	PASS
		5230	0.64	0.68	94.12	---	PASS
		5270	0.64	0.68	94.12	---	PASS

		5310	0.64	0.68	94.12	---	PASS
		5510	0.64	0.68	94.12	---	PASS
		5590	0.64	0.68	94.12	---	PASS
		5670	0.64	0.68	94.12	---	PASS
11AC80SISO	Ant1	5210	0.32	0.37	86.49	---	PASS
		5290	0.32	0.37	86.49	---	PASS
		5530	0.32	0.37	86.49	---	PASS
		5610	0.32	0.37	86.49	---	PASS

Test Graphs

11A_Ant1_5180

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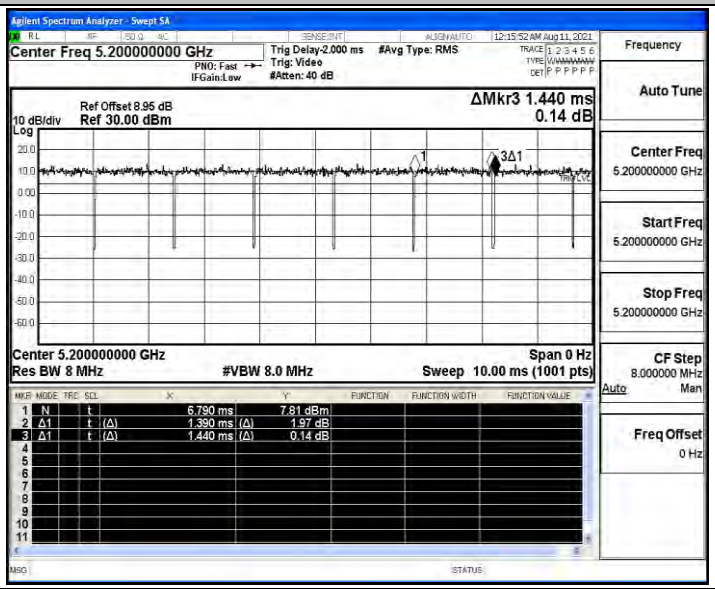
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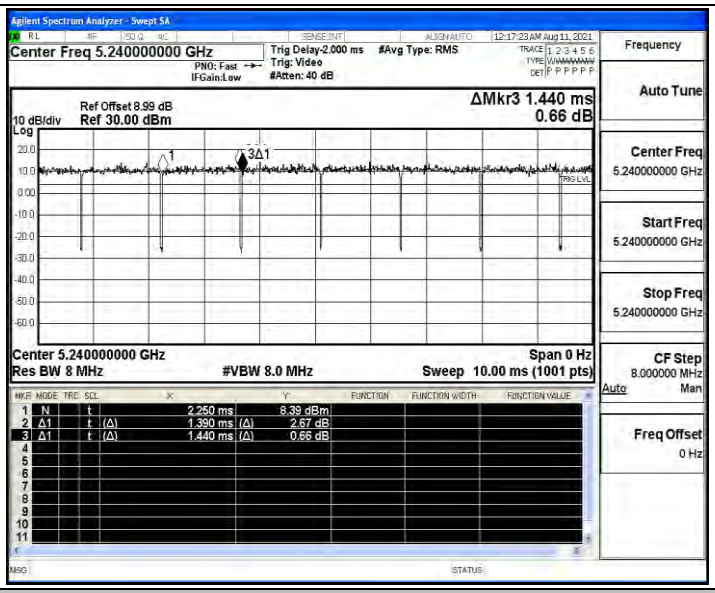

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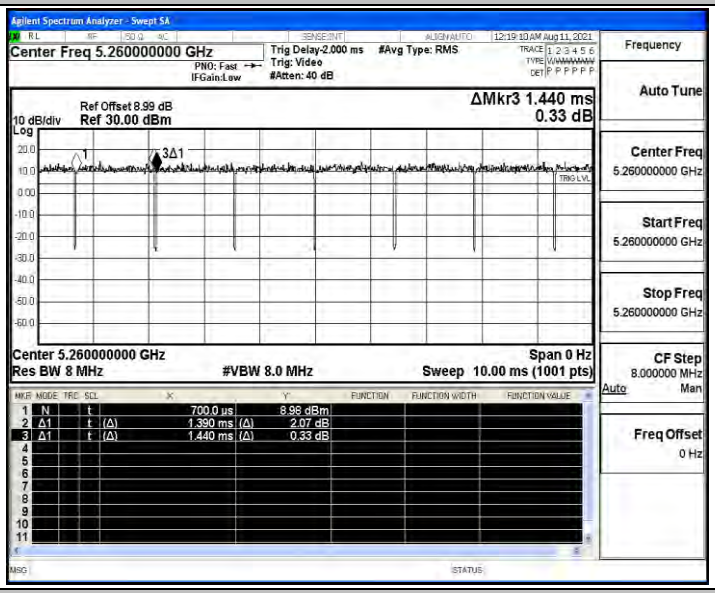
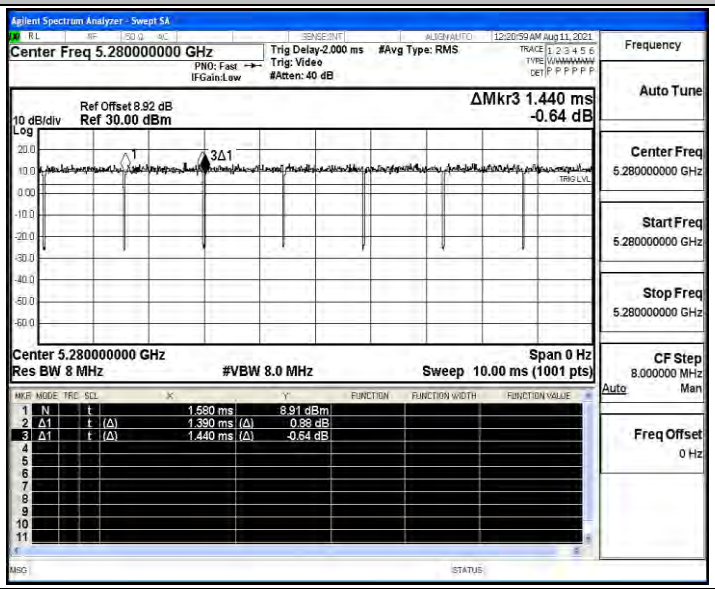


11A_Ant1_5280



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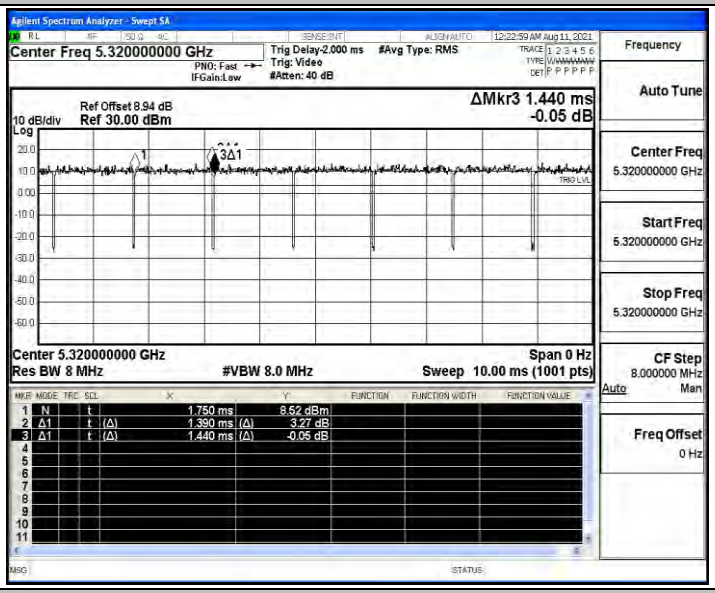
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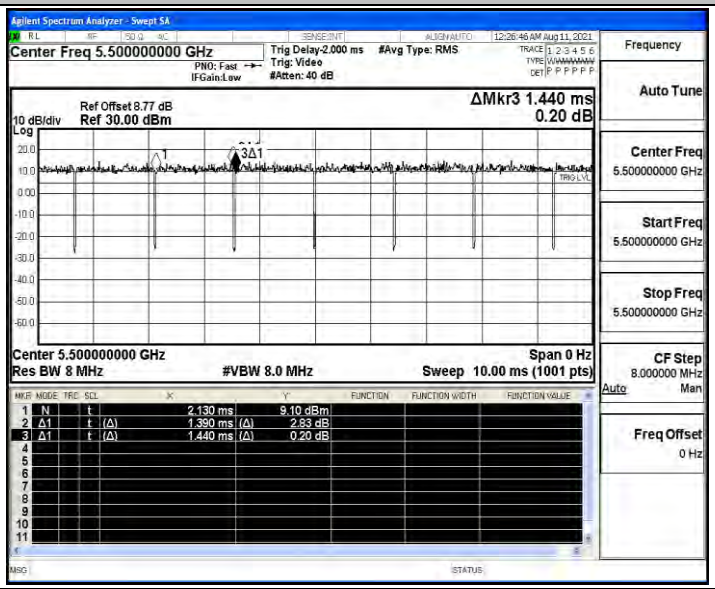
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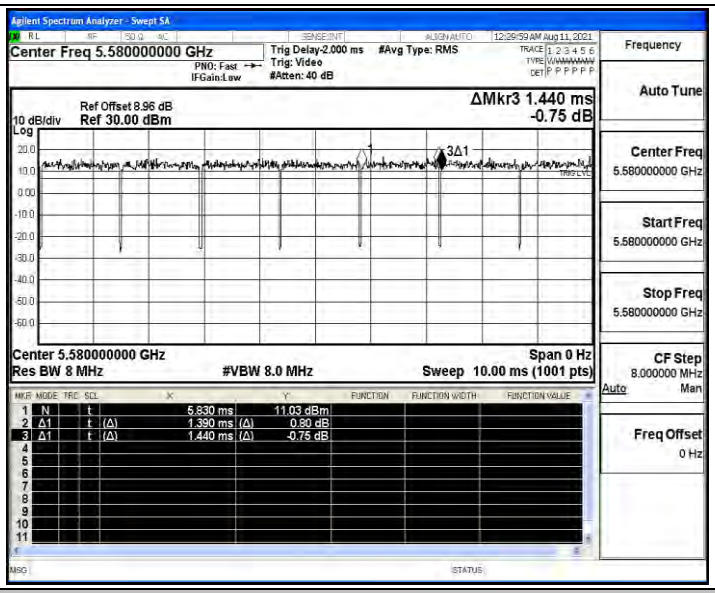
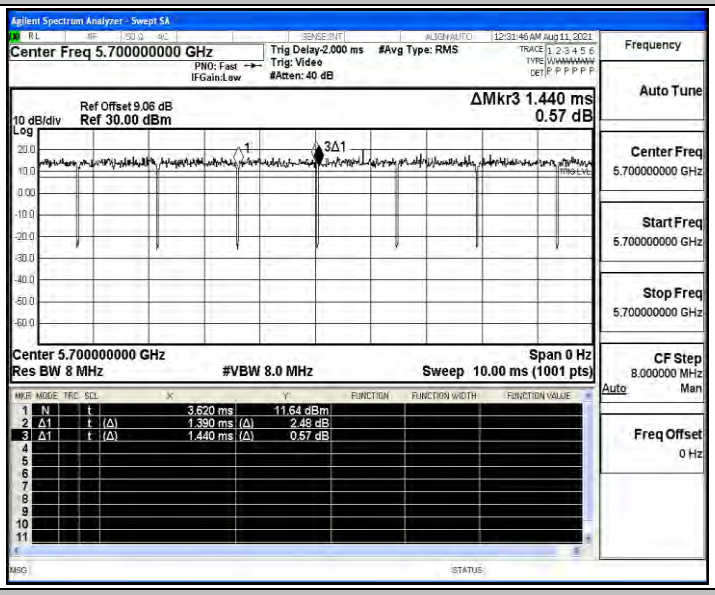


11A_Ant1_5700



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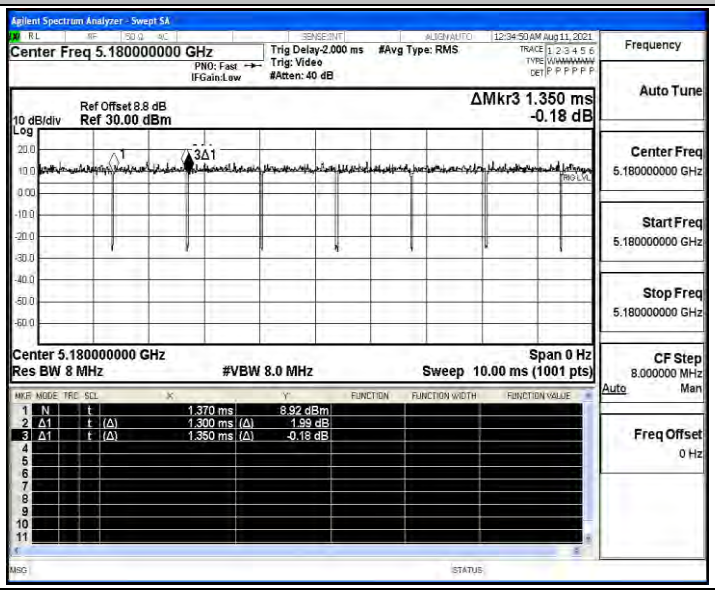

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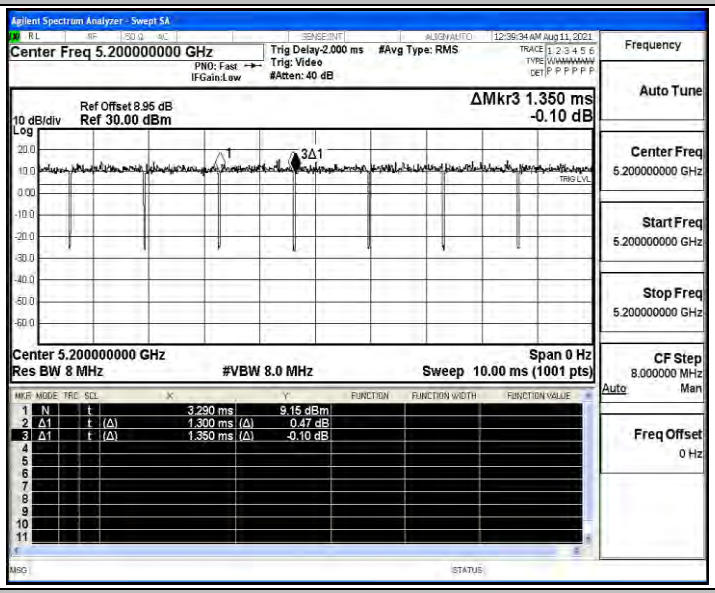
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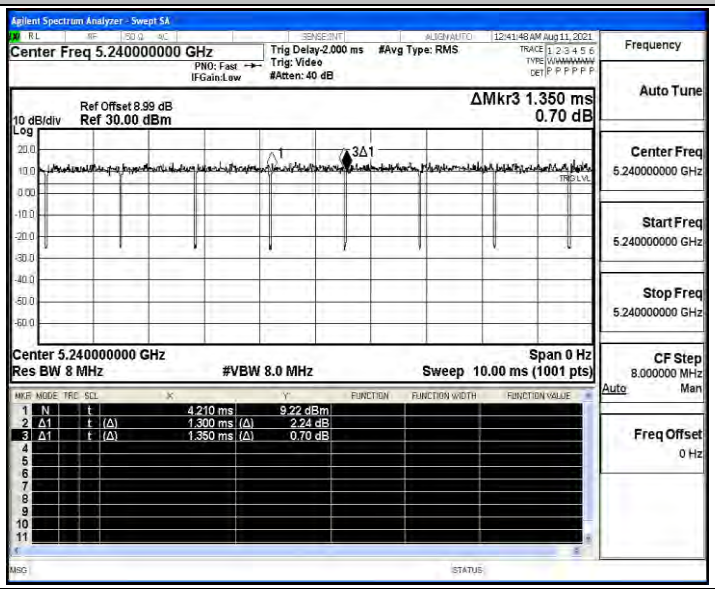
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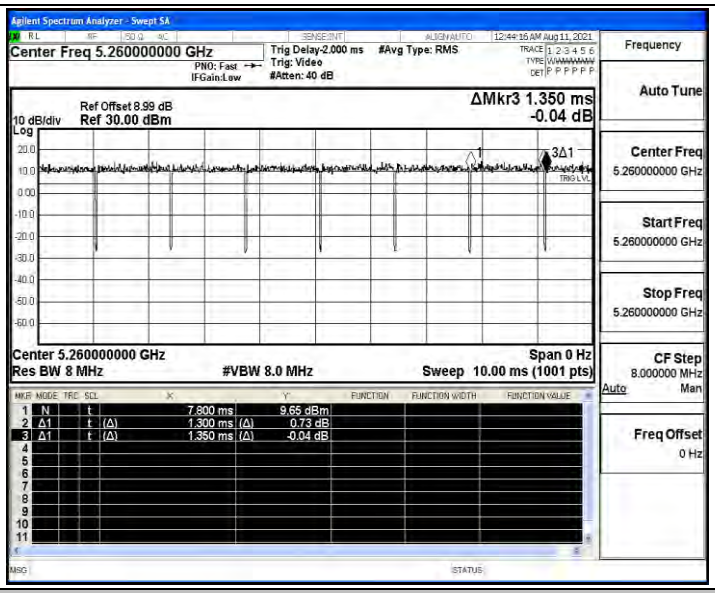

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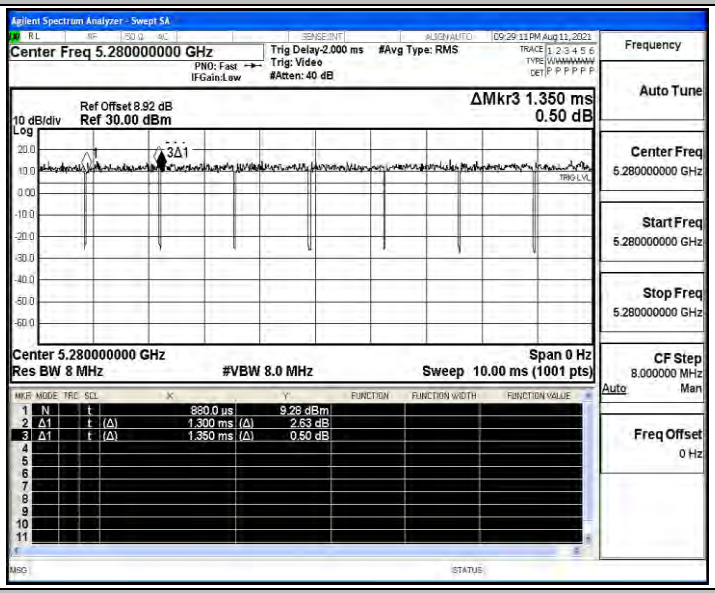

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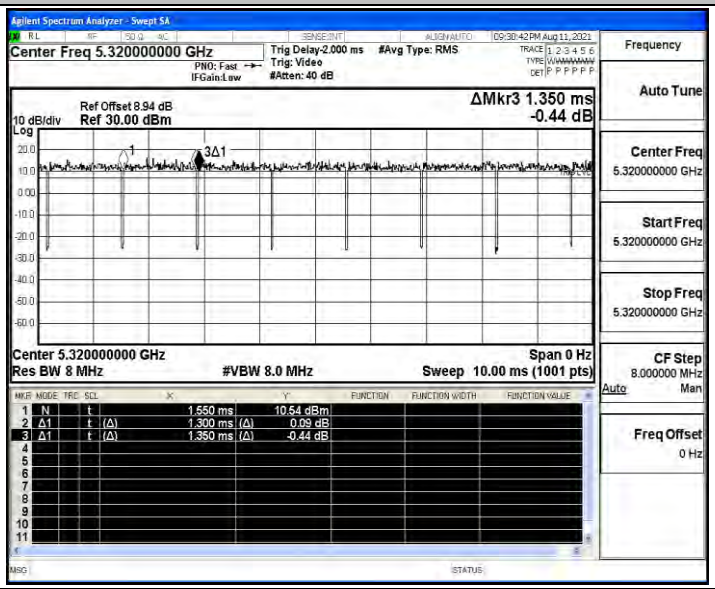

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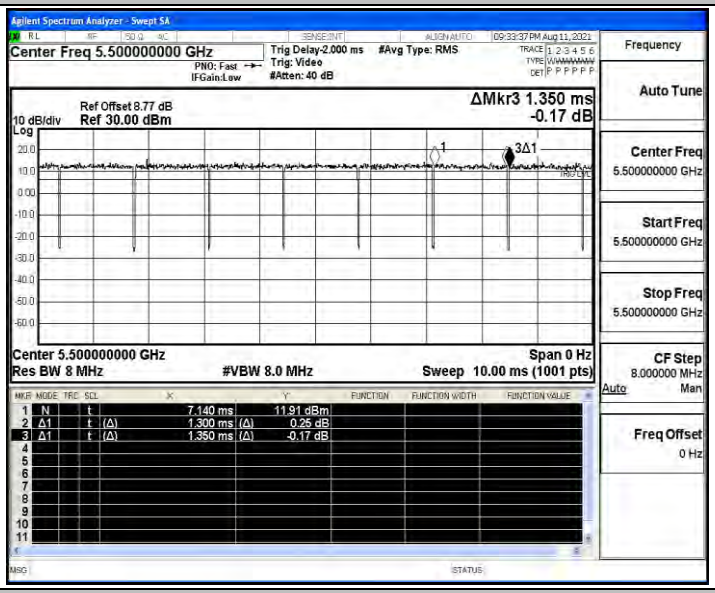
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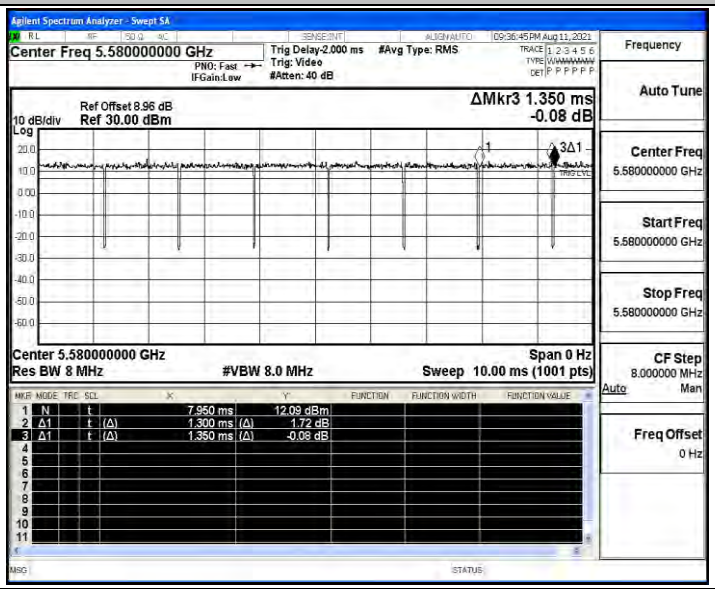
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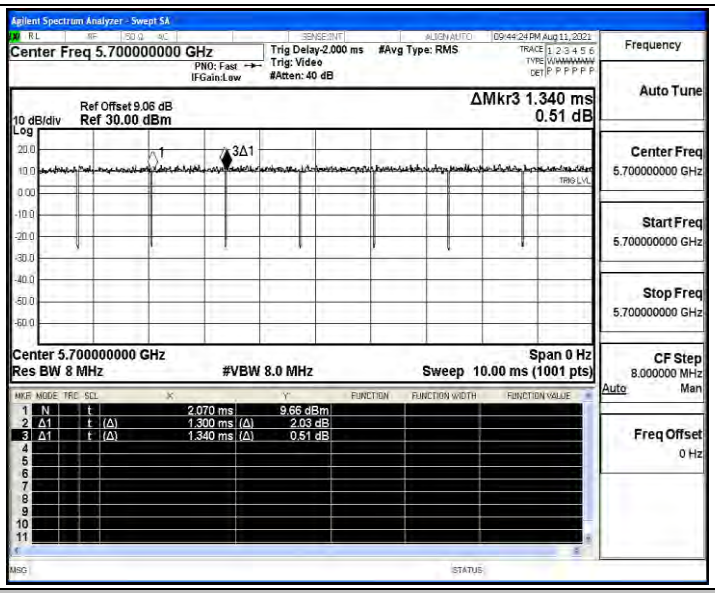
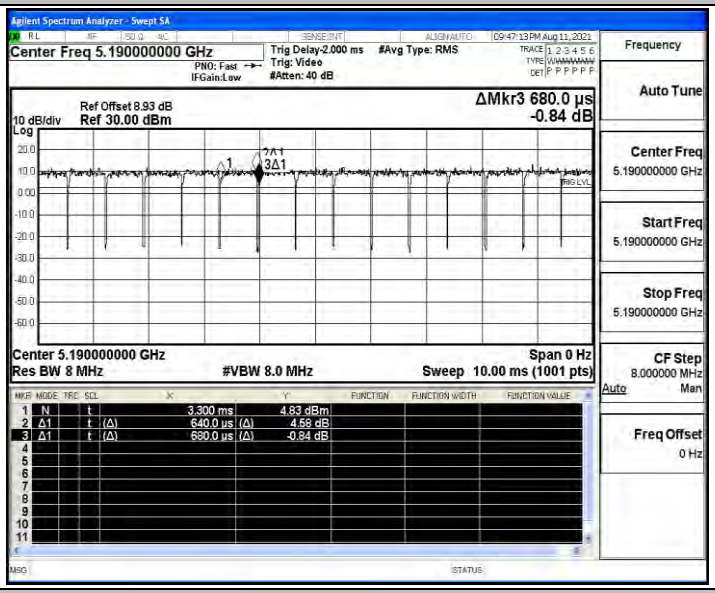


11N40SISO_Ant1_5190



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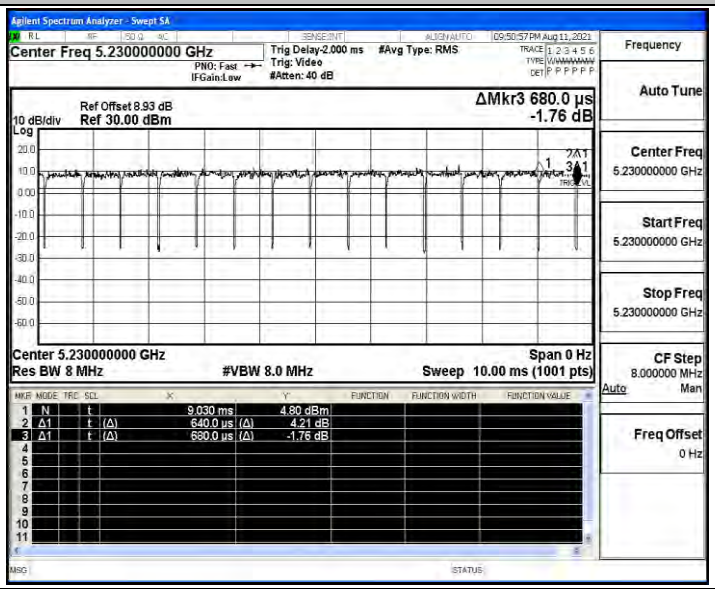

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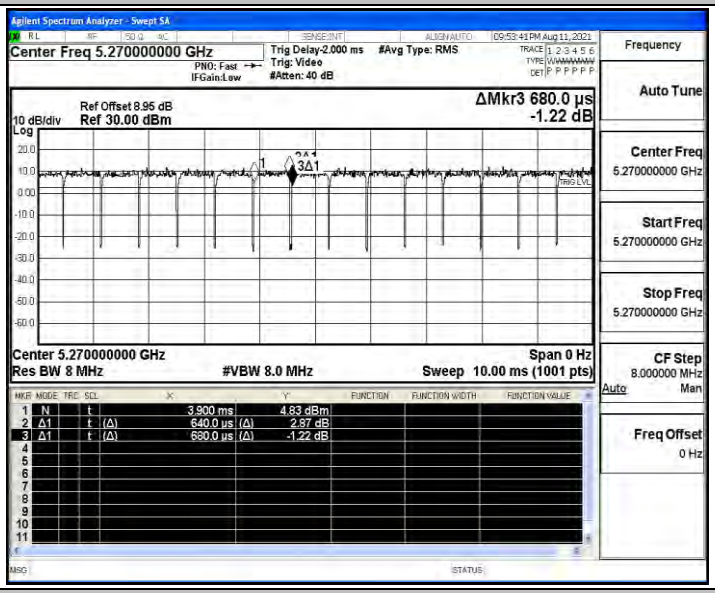
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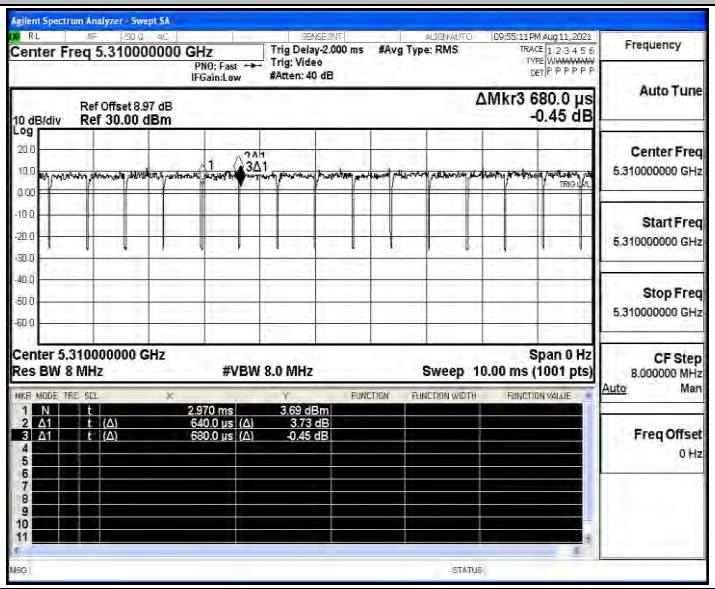
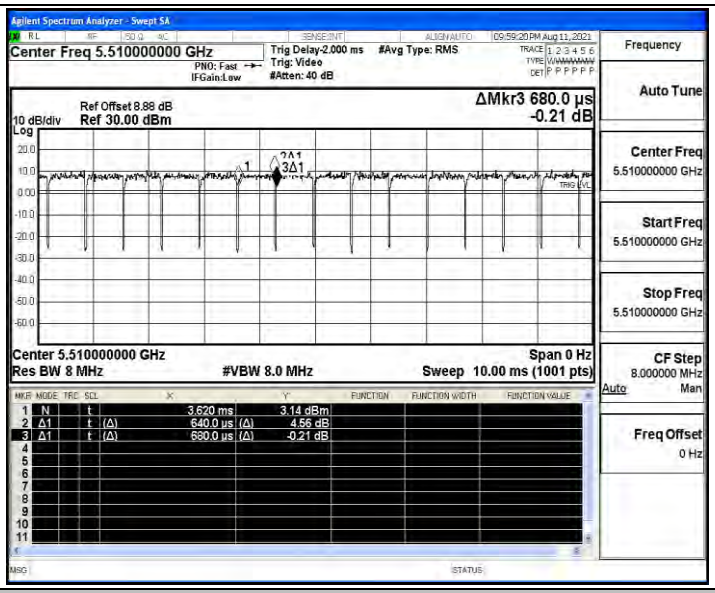
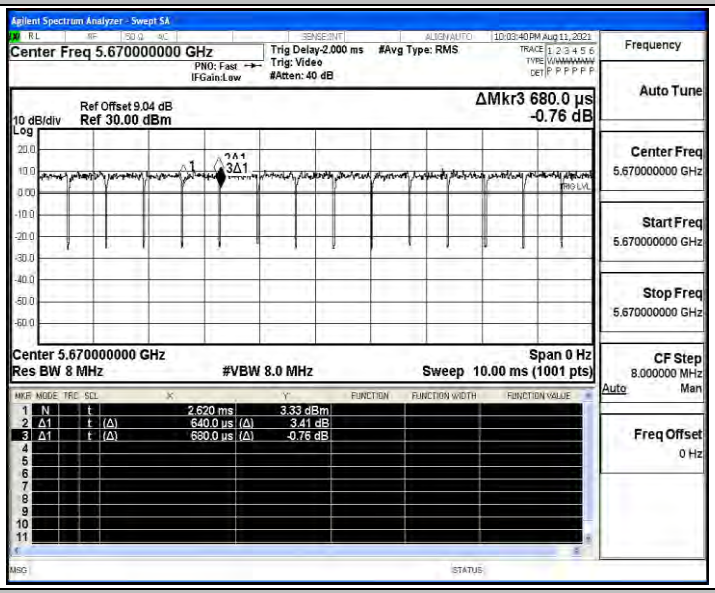
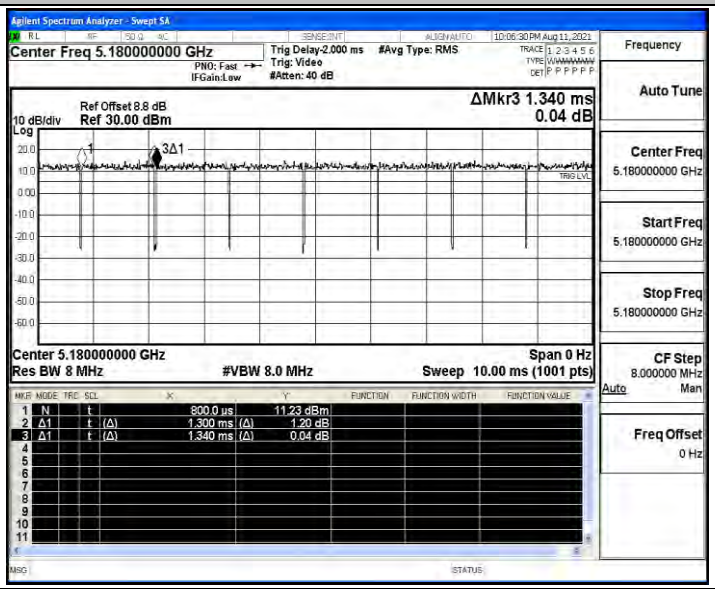

11N40SISO_Ant1_5510

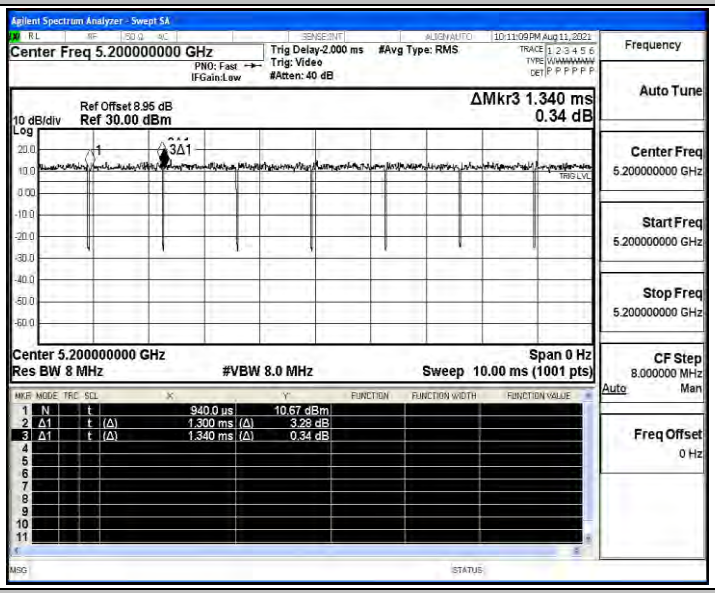


11N40SISO_Ant1_5670



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

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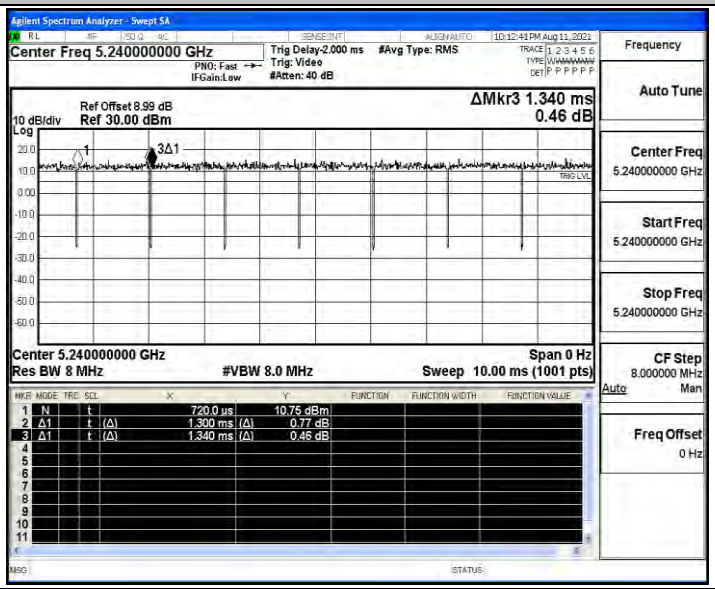
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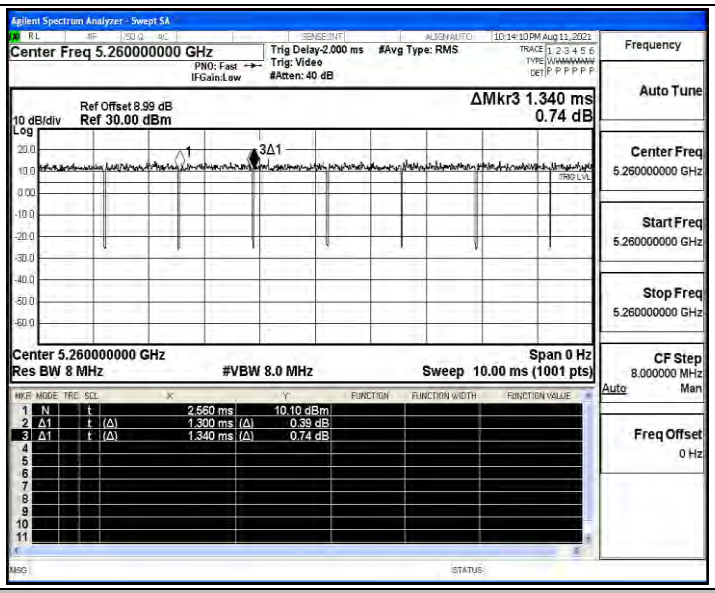

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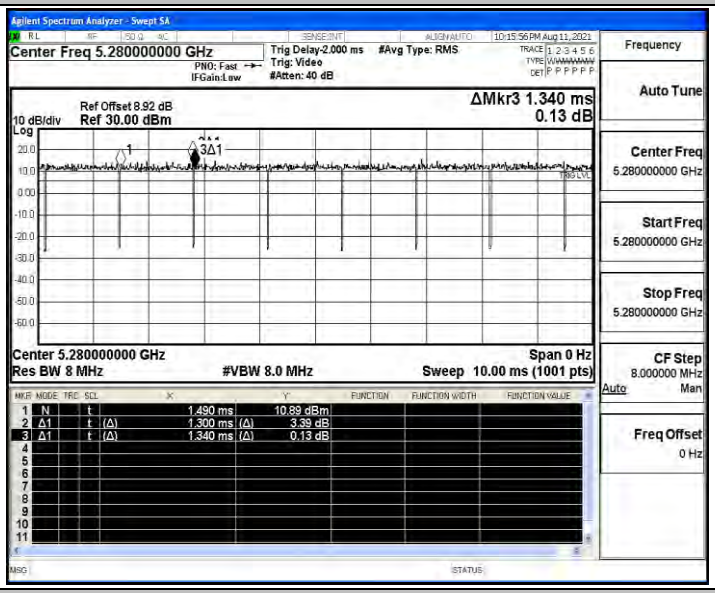

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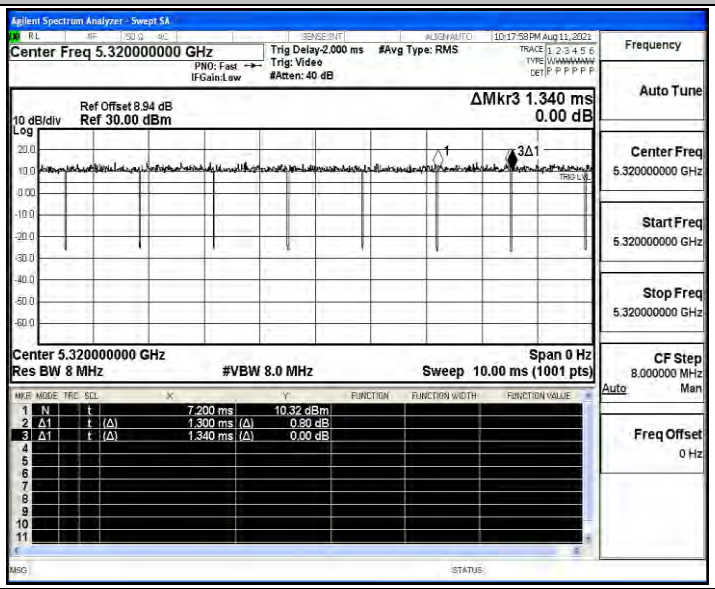

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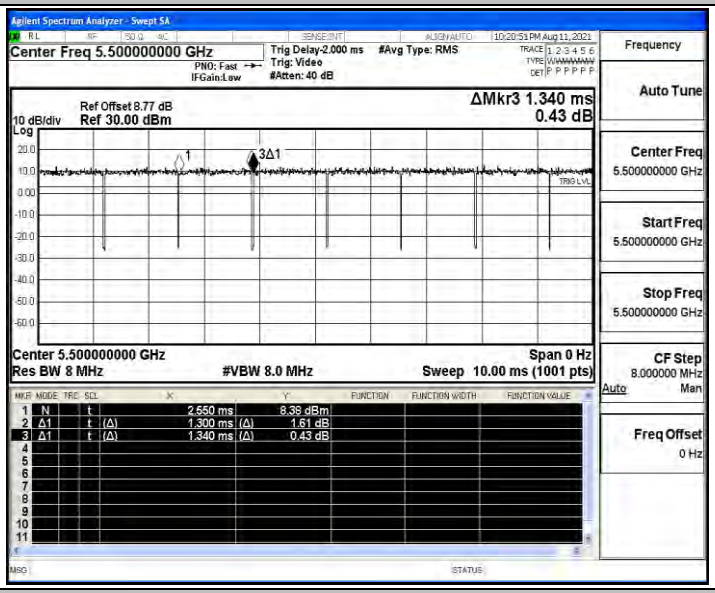
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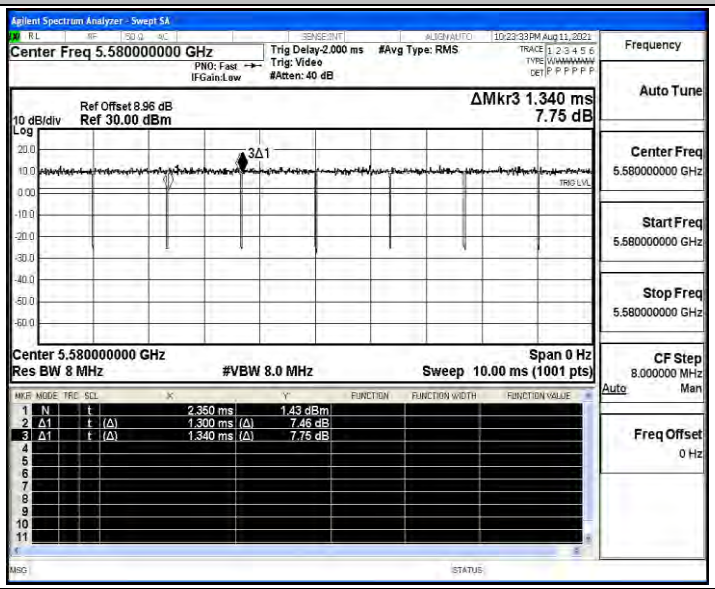
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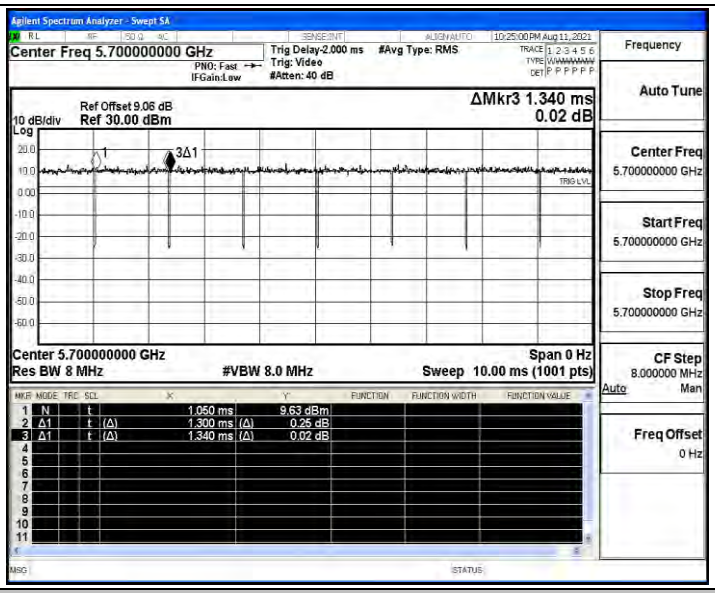

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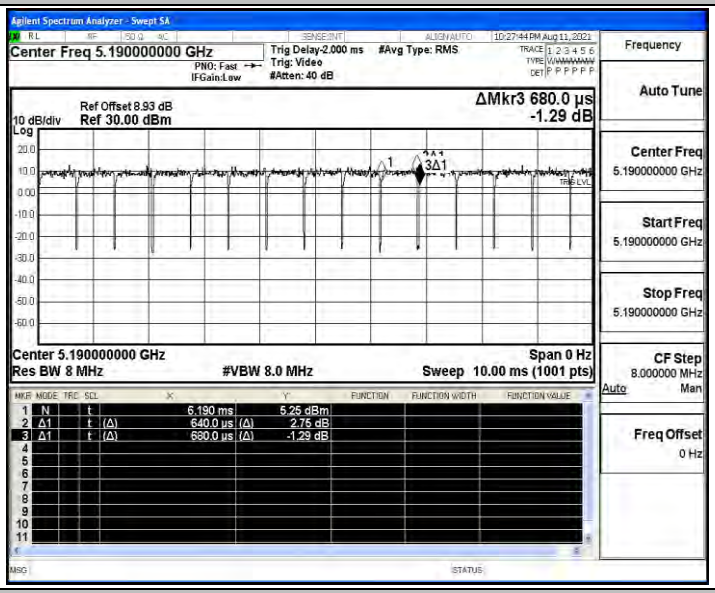
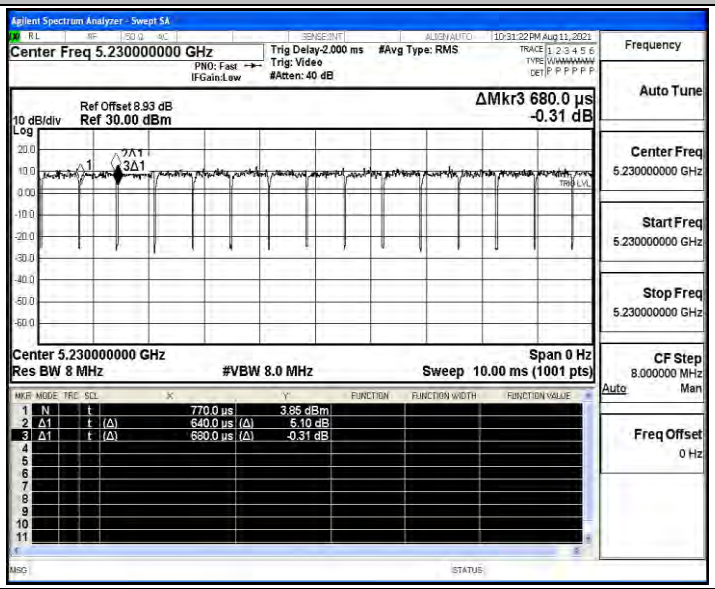


11AC40SISO_Ant1_5230



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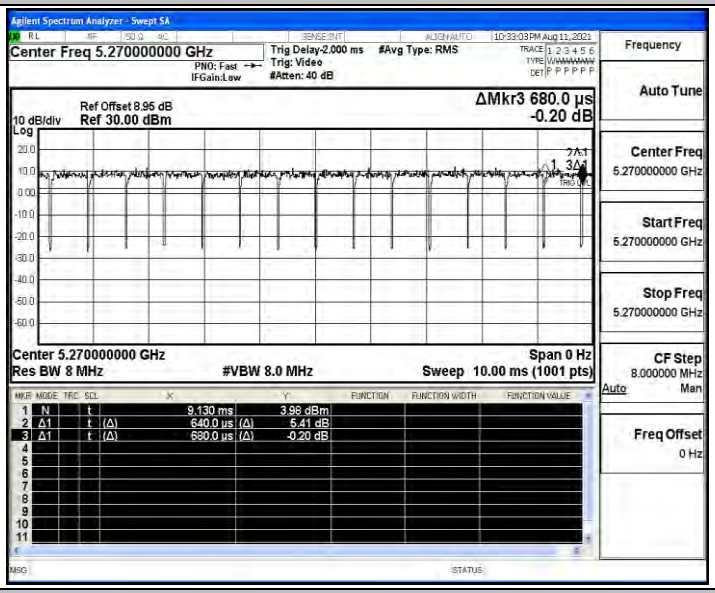
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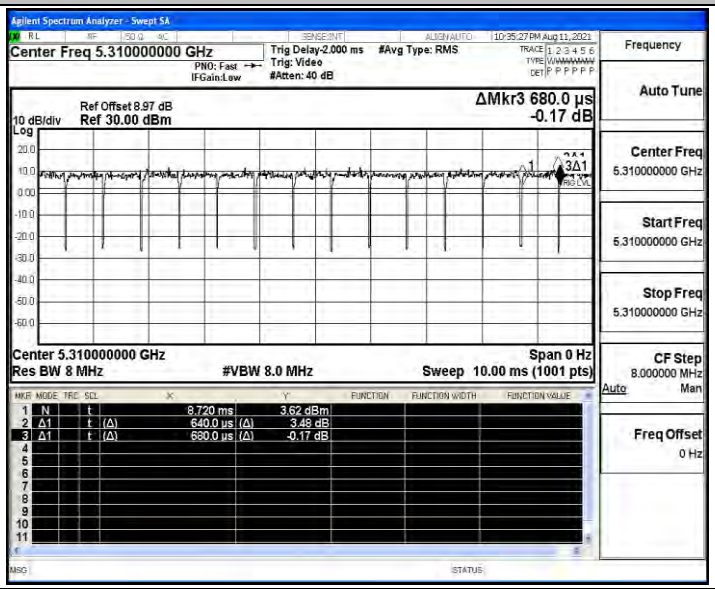
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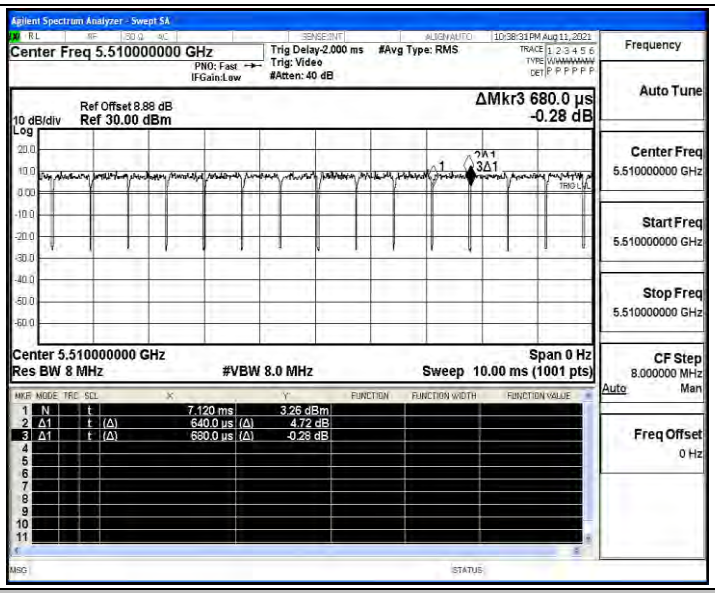

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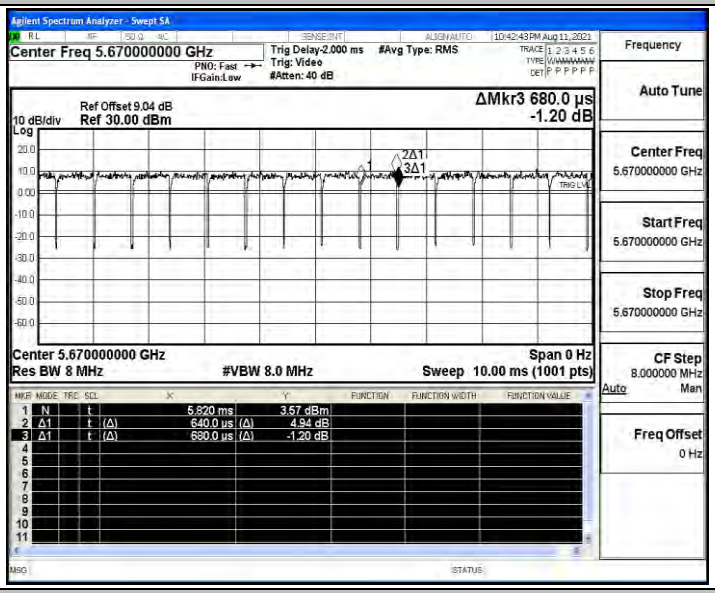

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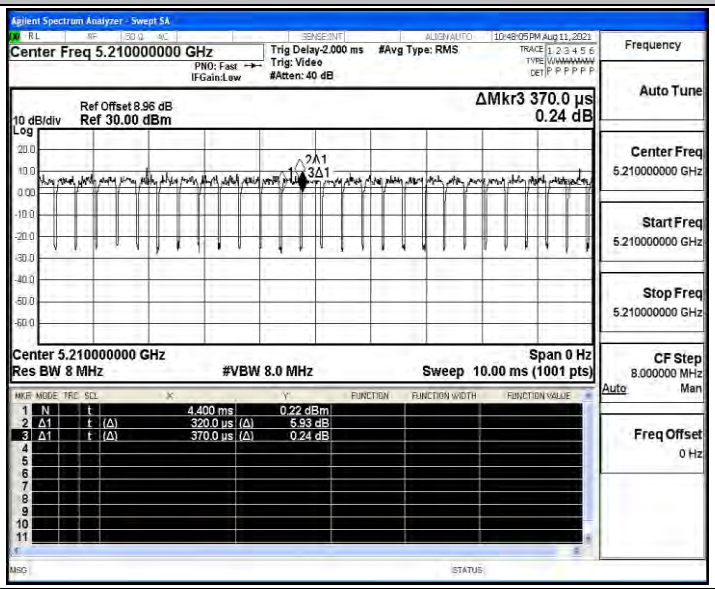
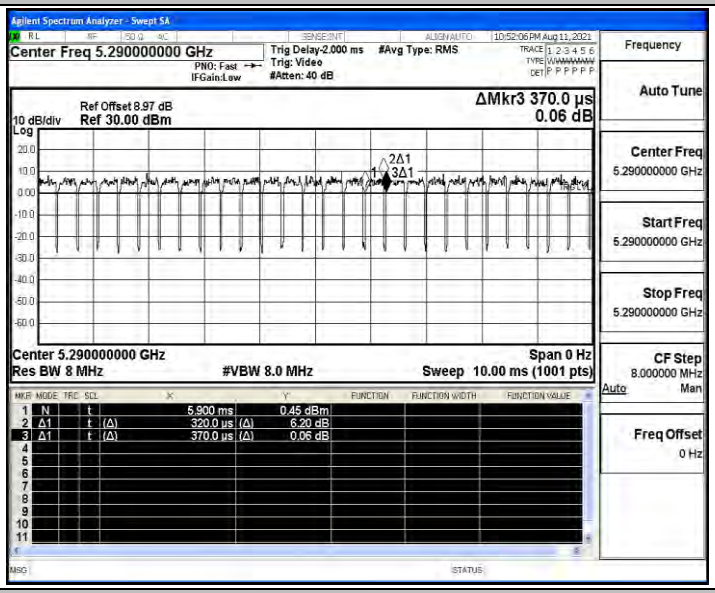


11AC80SISO_Ant1_5290

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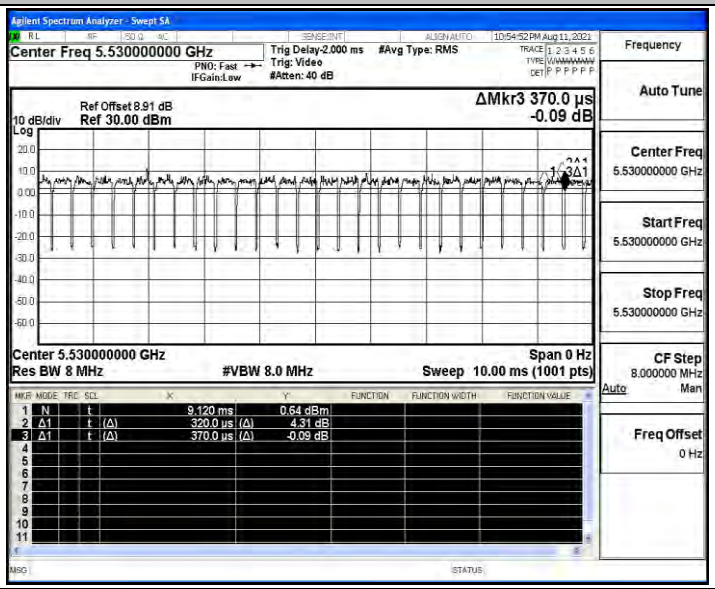
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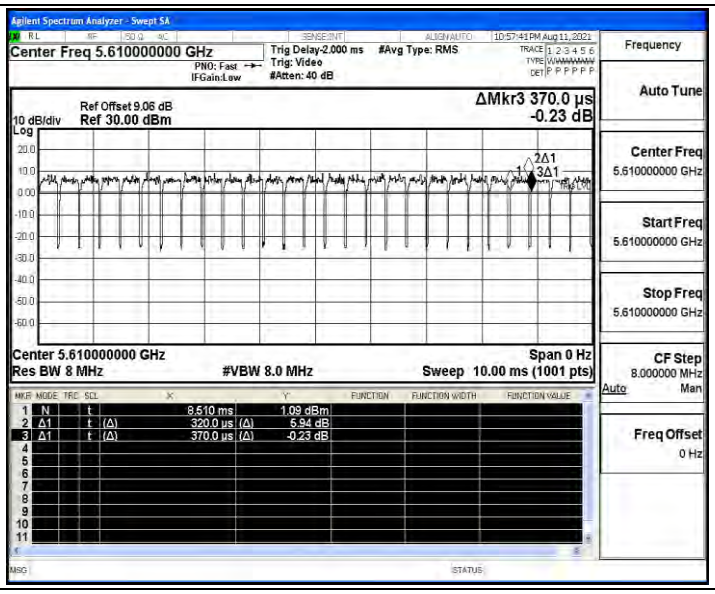
Agilent Spectrum Analyzer - Swept SA
Center Freq 5.610000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-2.000 ms
Trig: Video
#Atten: 40 dB
#Avg Type: RMS
10:57:41 PM Aug 11, 2021
Ref Offset 9.06 dB
10 dB/div Ref 30.00 dBm
Log
ΔMkr3 370.0 µs
-0.23 dB
2Δ1
3Δ1
Center 5.610000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 10.00 ms (1001 pts)
1 N 1 t 8.510 ms 1.09 dBm
2 Δ1 1 t (Δ) 320.0 µs (Δ) 5.94 dB
3 Δ1 1 t (Δ) 370.0 µs (Δ) -0.23 dB
Frequency
Auto Tune
Center Freq
5.610000000 GHz
Start Freq
5.610000000 GHz
Stop Freq
5.610000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	6.68	≤23.98	PASS
		5200	5.32	≤23.98	PASS
		5240	6.39	≤23.98	PASS
		5260	6.85	≤23.98	PASS
		5280	6.65	≤23.98	PASS
		5320	6.31	≤23.98	PASS
		5500	6.83	≤23.96	PASS
		5580	6.39	≤23.98	PASS
		5700	6.45	≤23.98	PASS
11N20SISO	Ant1	5180	6.51	≤23.98	PASS
		5200	6.83	≤23.98	PASS
		5240	7.02	≤23.98	PASS
		5260	7.10	≤23.98	PASS
		5280	7.52	≤23.98	PASS
		5320	7.43	≤23.98	PASS
		5500	7.26	≤23.66	PASS
		5580	7.52	≤23.66	PASS
		5700	7.31	≤23.98	PASS
11N40SISO	Ant1	5190	7.01	≤23.98	PASS
		5230	7.57	≤23.98	PASS
		5270	7.58	≤23.98	PASS
		5310	7.34	≤23.98	PASS
		5510	7.40	≤23.98	PASS
		5590	7.40	≤23.98	PASS
		5670	7.51	≤23.98	PASS
11AC20SISO	Ant1	5180	7.56	≤23.98	PASS
		5200	7.33	≤23.98	PASS
		5240	7.69	≤23.98	PASS
		5260	7.32	≤23.98	PASS
		5280	7.16	≤23.98	PASS
		5320	7.28	≤23.98	PASS
		5500	6.19	≤23.98	PASS
		5580	6.39	≤23.98	PASS
		5700	6.87	≤23.98	PASS
11AC40SISO	Ant1	5190	7.32	≤23.98	PASS
		5230	7.44	≤23.98	PASS
		5270	7.16	≤23.98	PASS
		5310	7.35	≤23.98	PASS

		5510	7.37	≤23.98	PASS
		5590	7.01	≤23.98	PASS
		5670	7.43	≤23.98	PASS
11AC80SISO	Ant1	5210	7.38	≤23.98	PASS
		5290	7.43	≤23.98	PASS
		5530	7.69	≤23.98	PASS
		5610	7.07	≤23.98	PASS

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

C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-3.55	≤11	PASS
		5200	-4.86	≤11	PASS
		5240	-3.82	≤11	PASS
		5260	-3.42	≤11	PASS
		5280	-3.52	≤11	PASS
		5320	-4.00	≤11	PASS
		5500	-3.32	≤11	PASS
		5580	-1.49	≤11	PASS
		5700	-0.86	≤11	PASS
11N20SISO	Ant1	5180	-3.88	≤11	PASS
		5200	-3.21	≤11	PASS
		5240	-3.35	≤11	PASS
		5260	-3.19	≤11	PASS
		5280	-2.84	≤11	PASS
		5320	-2.97	≤11	PASS
		5500	4.82	≤11	PASS
		5580	5.13	≤11	PASS
		5700	-3.12	≤11	PASS
11N40SISO	Ant1	5190	-4.99	≤11	PASS
		5230	-5.28	≤11	PASS
		5270	-5.31	≤11	PASS
		5310	-5.96	≤11	PASS
		5510	-6.2	≤11	PASS
		5590	-6.95	≤11	PASS
		5670	-6.39	≤11	PASS
11AC20SISO	Ant1	5180	-1.66	≤11	PASS
		5200	-1.77	≤11	PASS
		5240	-1.57	≤11	PASS
		5260	-2.42	≤11	PASS
		5280	-2.21	≤11	PASS
		5320	-3.13	≤11	PASS
		5500	-4.33	≤11	PASS
		5580	-3.86	≤11	PASS
		5700	-3.29	≤11	PASS
11AC40SISO	Ant1	5190	-5.15	≤11	PASS
		5230	-5.32	≤11	PASS
		5270	-5.71	≤11	PASS

		5310	-5.75	≤11	PASS
		5510	-6.5	≤11	PASS
		5590	-6.68	≤11	PASS
		5670	-6.41	≤11	PASS
11AC80SISO	Ant1	5210	-8.82	≤11	PASS
		5290	-9.26	≤11	PASS
		5530	-8.78	≤11	PASS
		5610	-8.24	≤11	PASS

Note：1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

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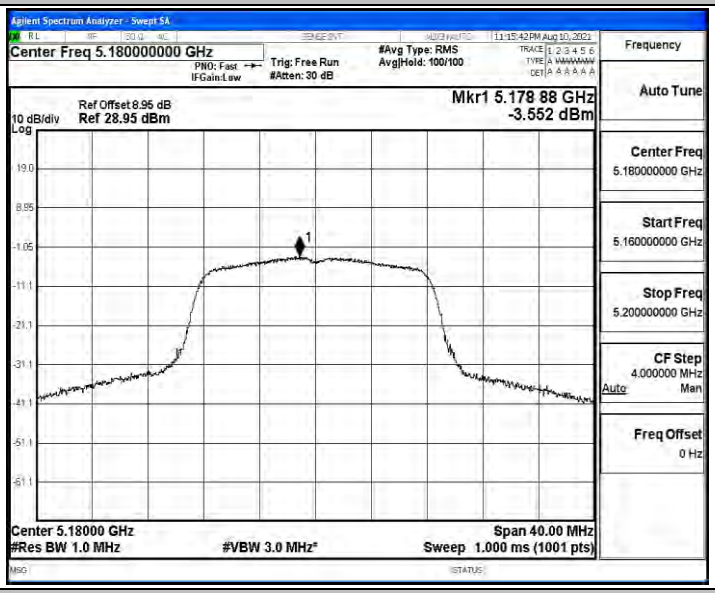
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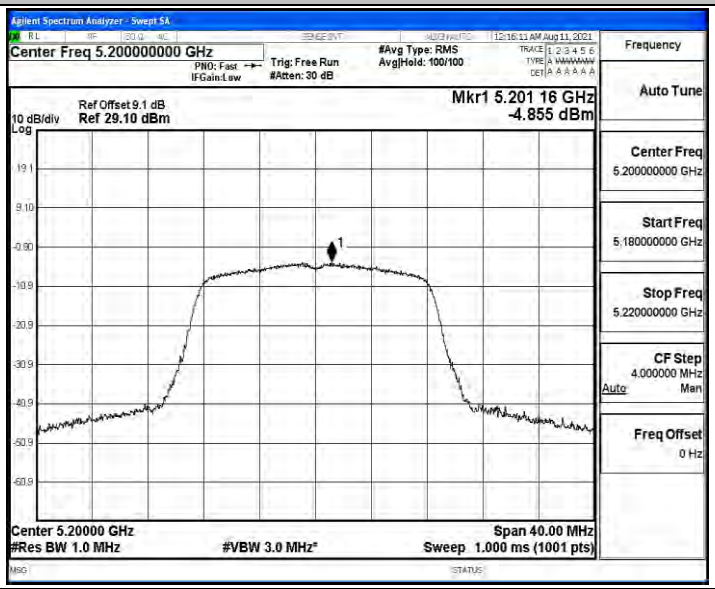
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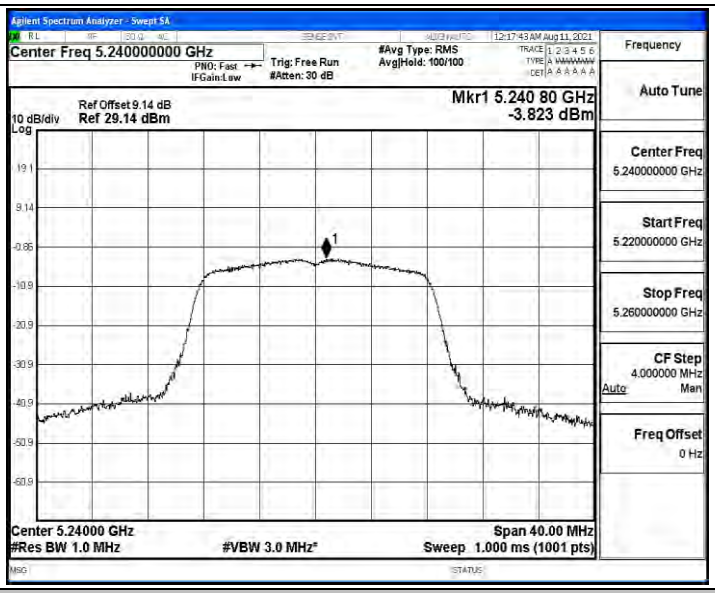

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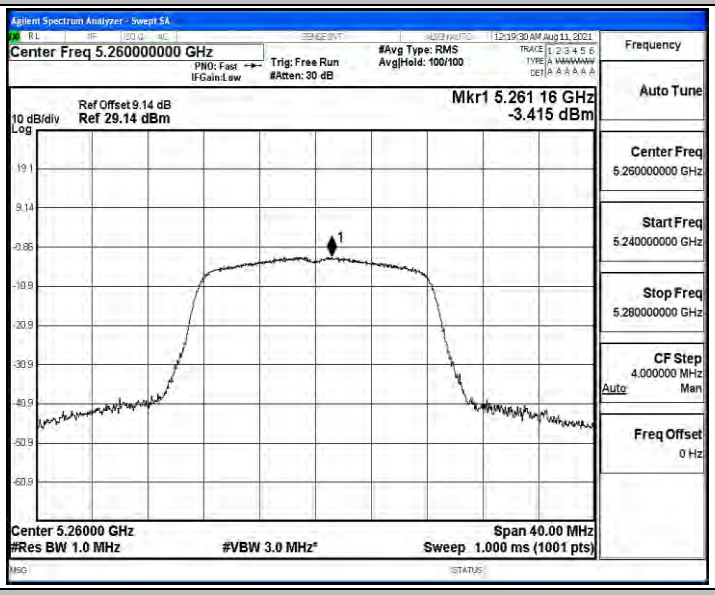

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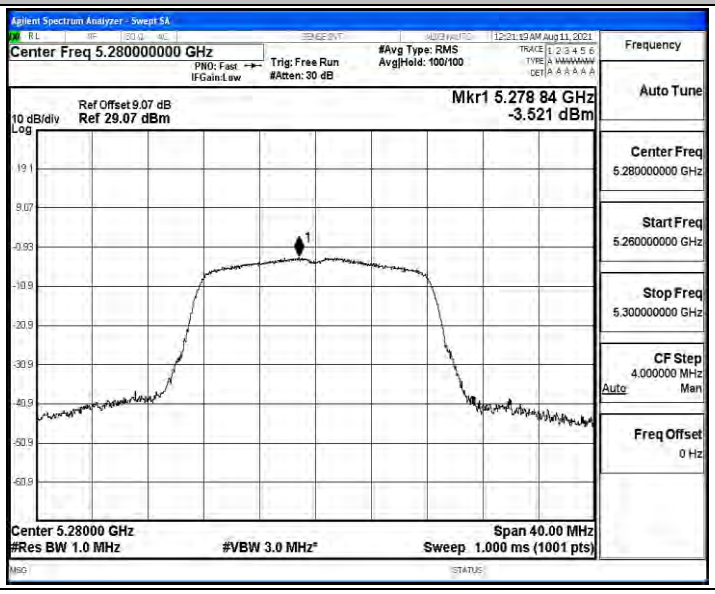

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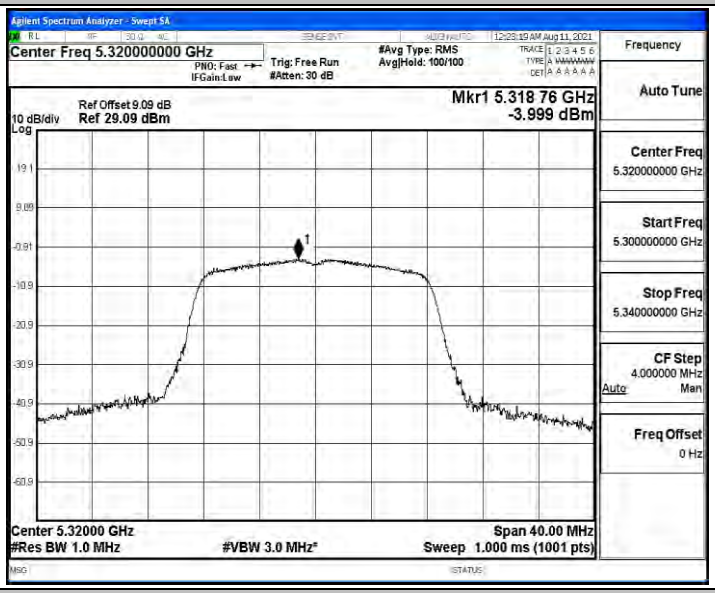
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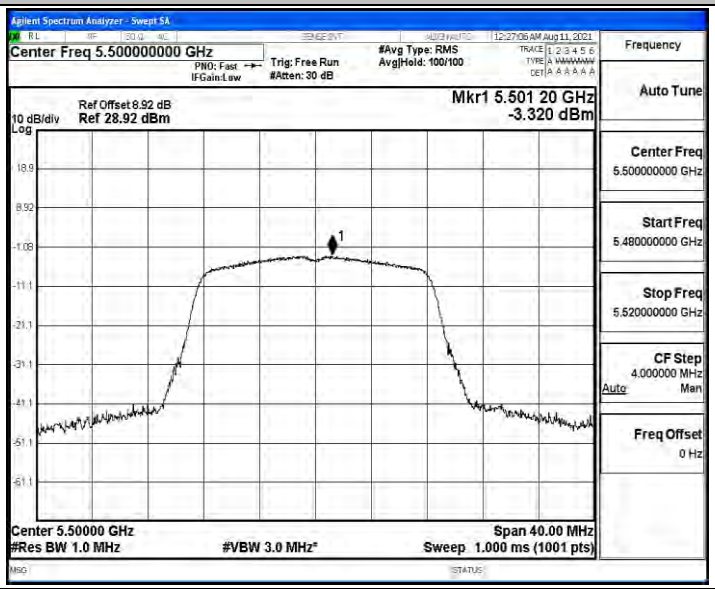
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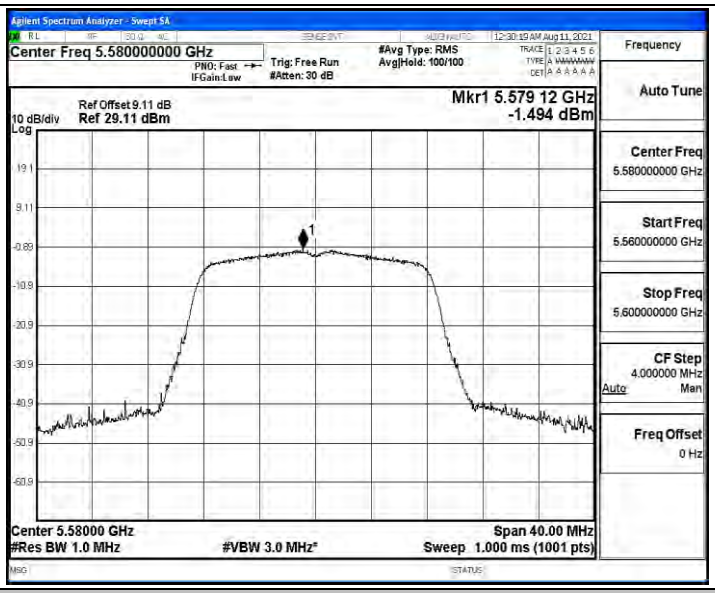

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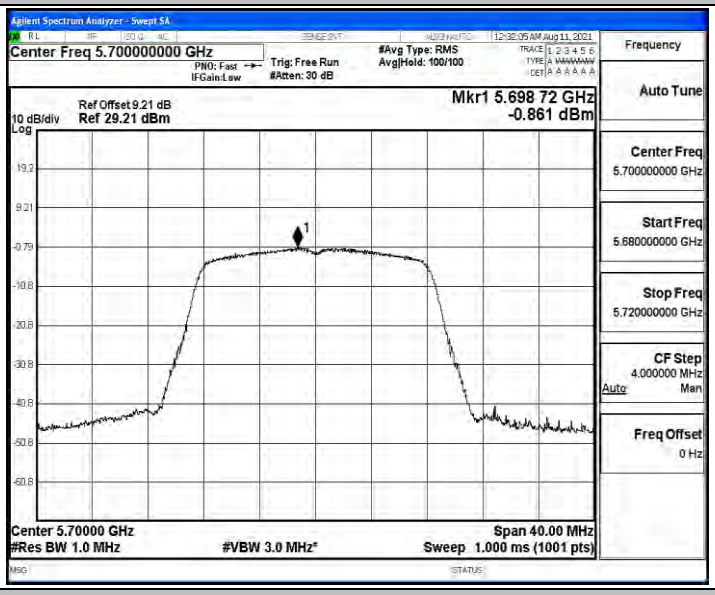

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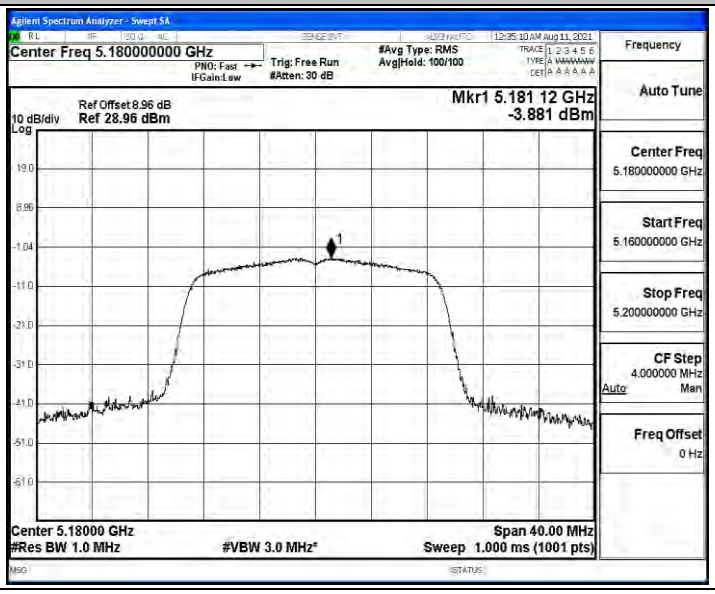

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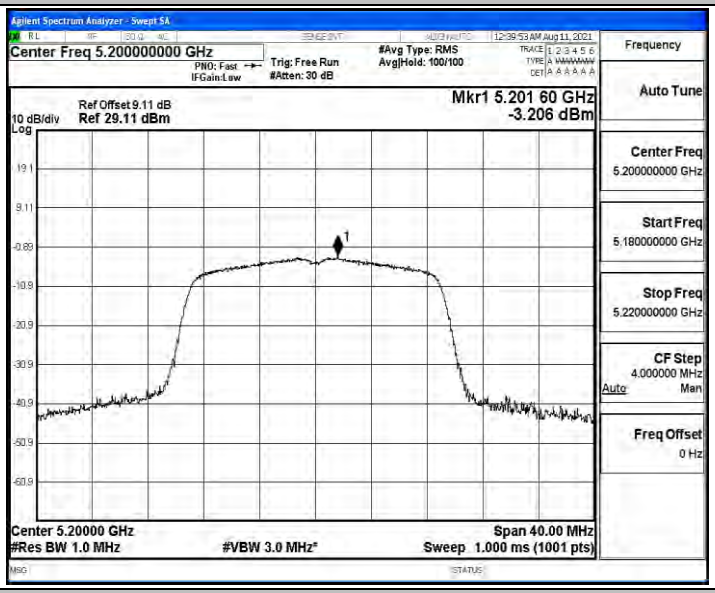
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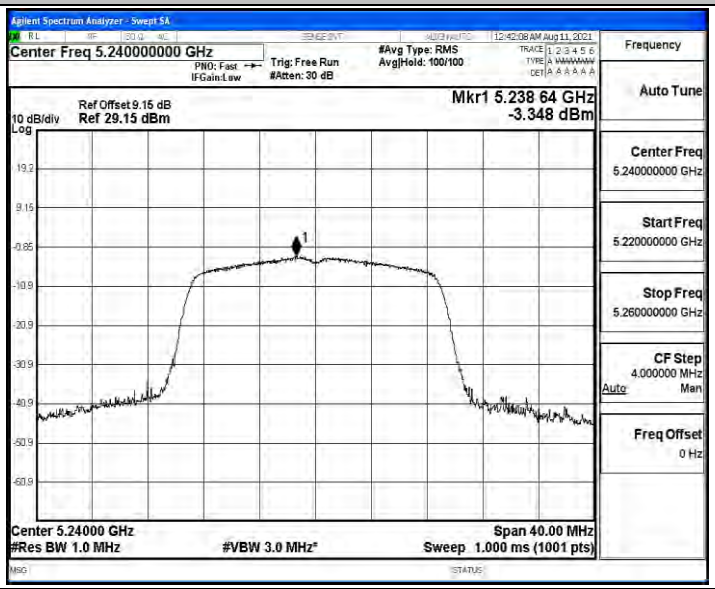
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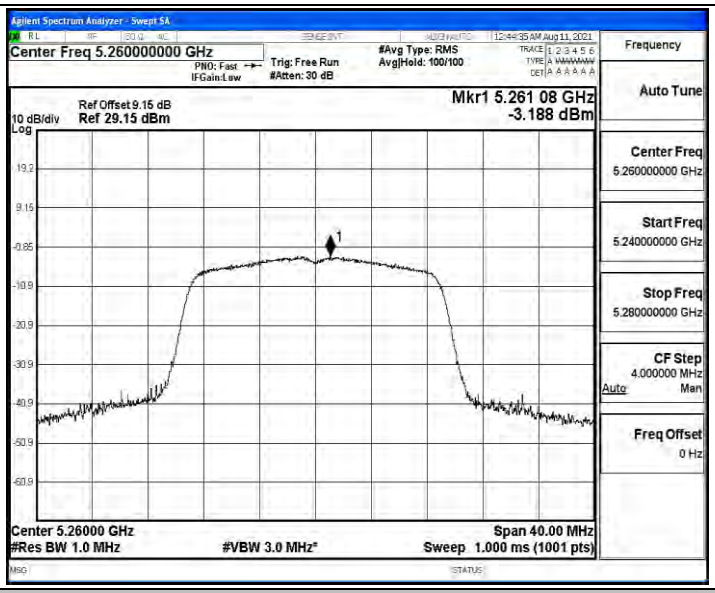

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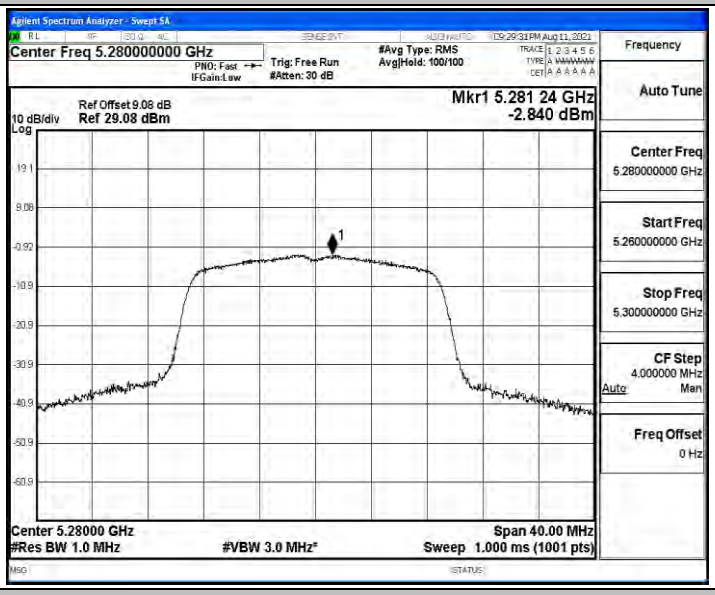

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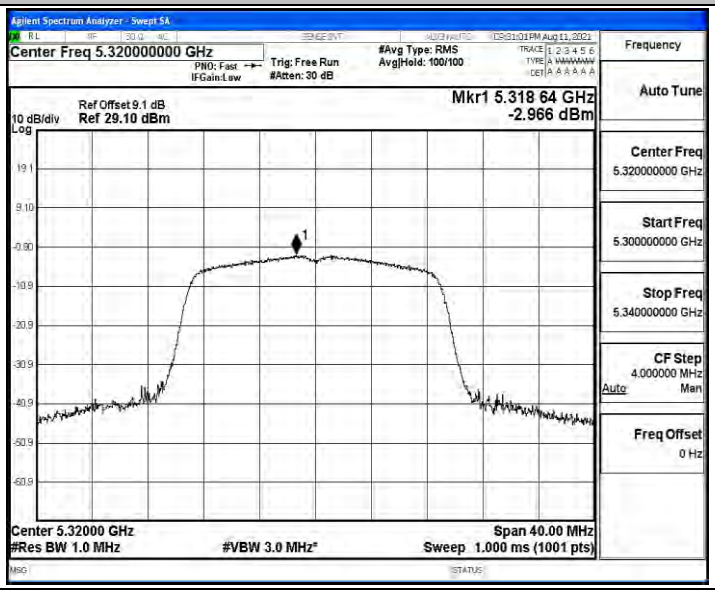

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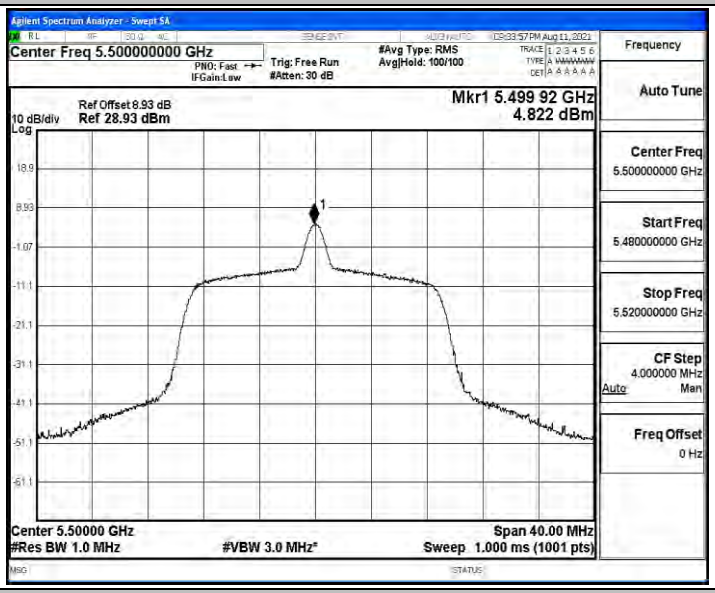
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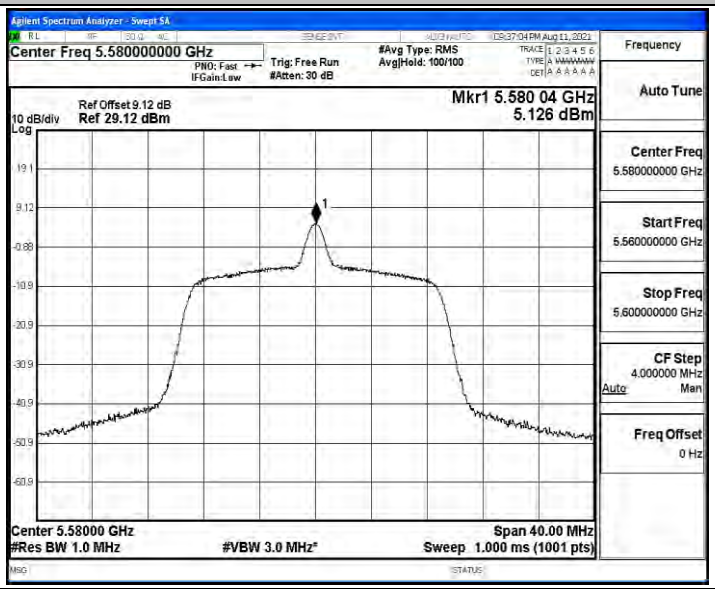
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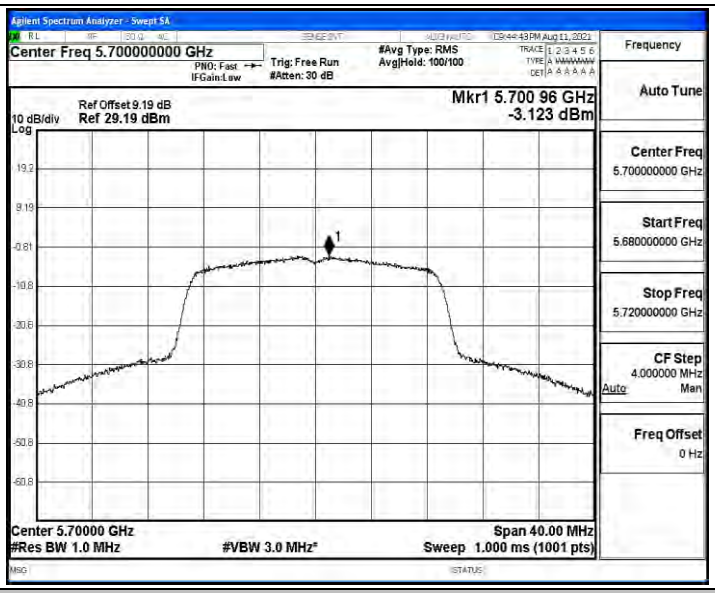

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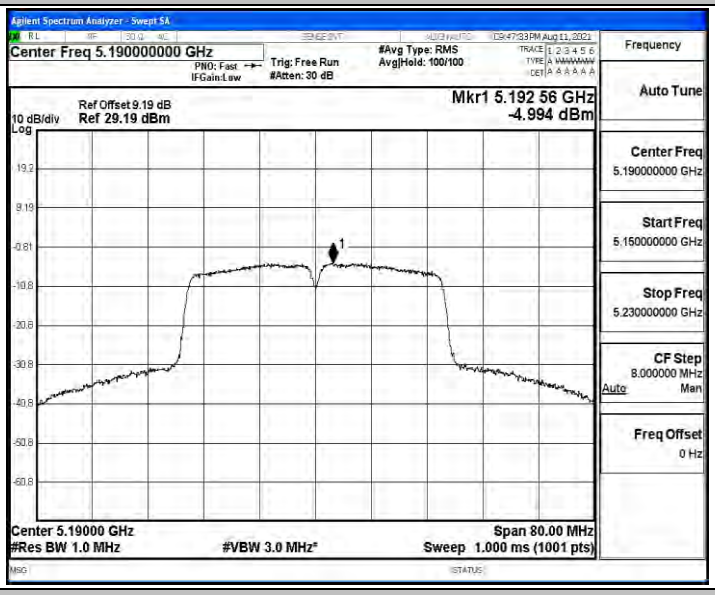

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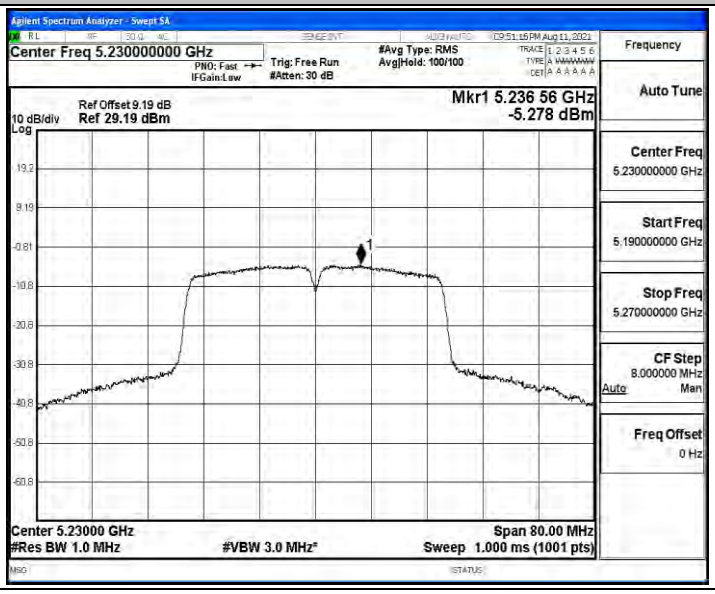

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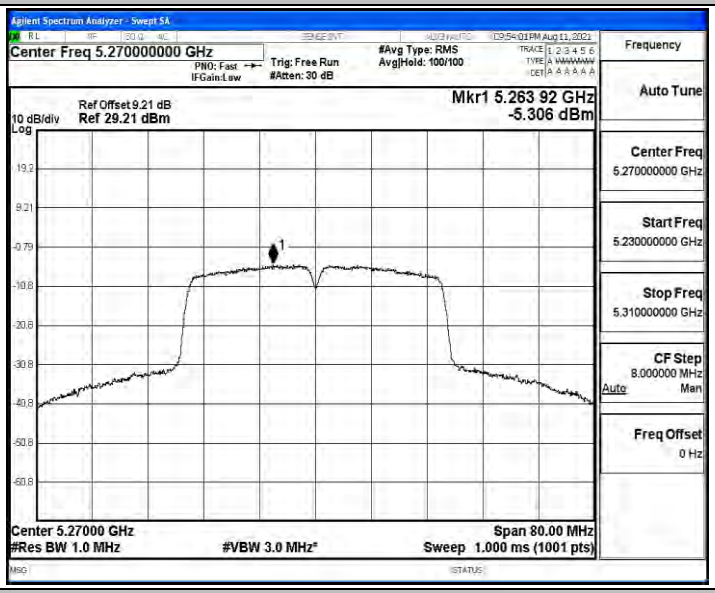
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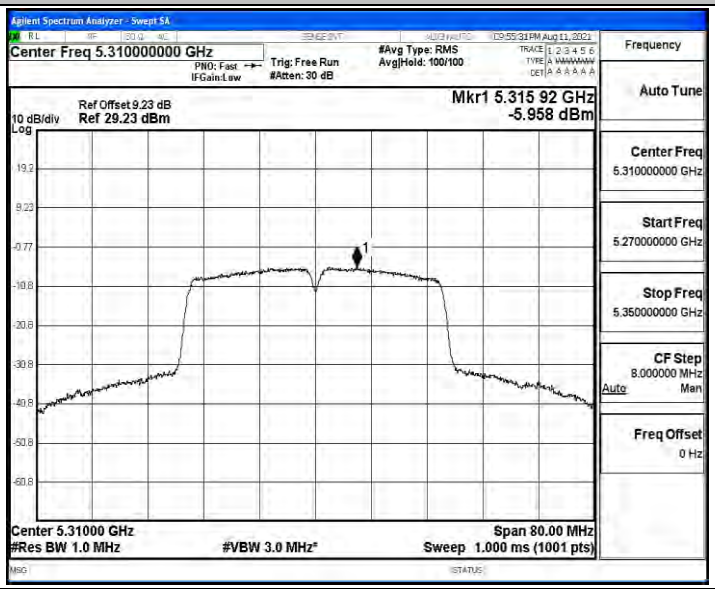
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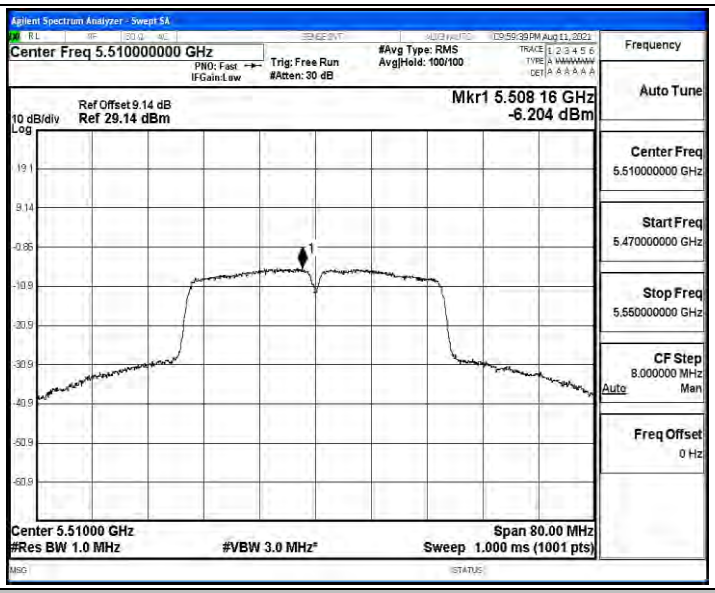

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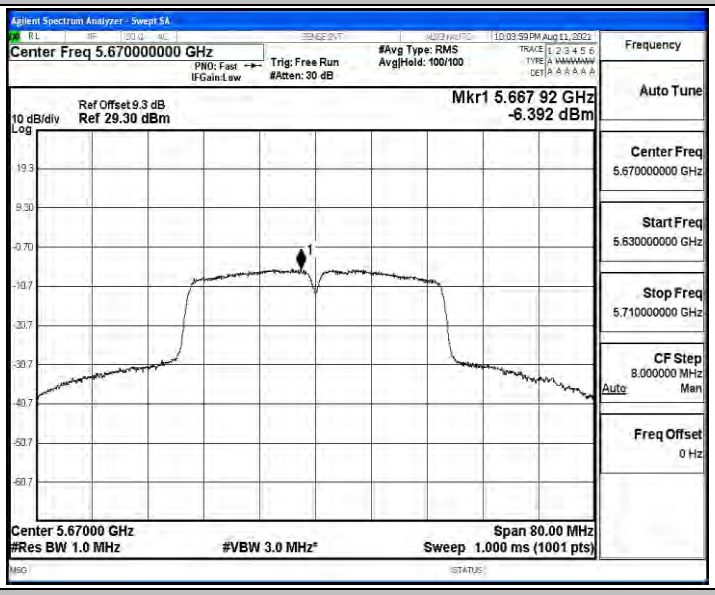

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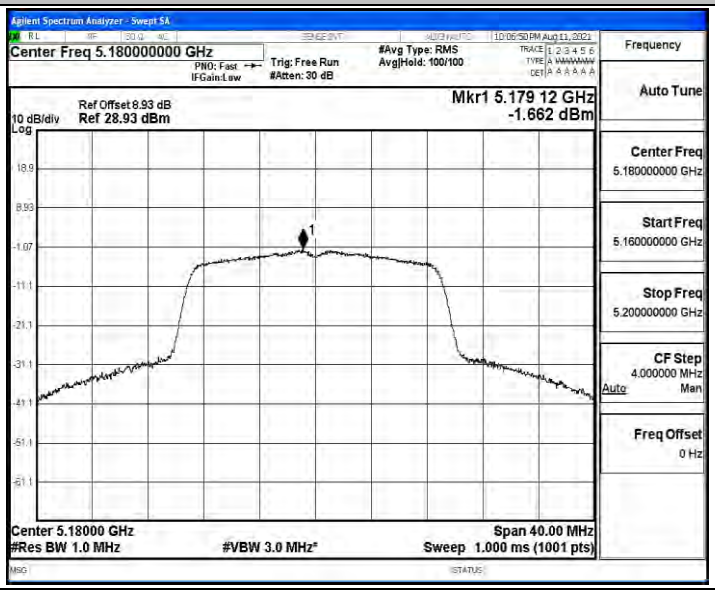

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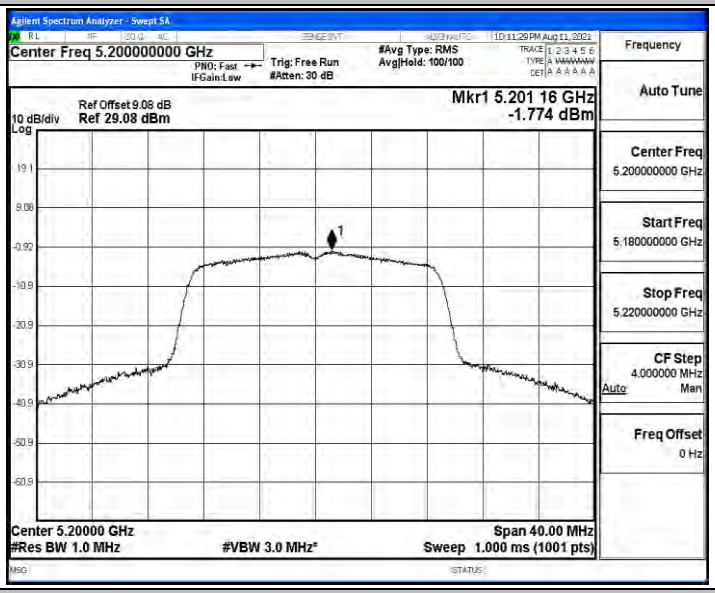
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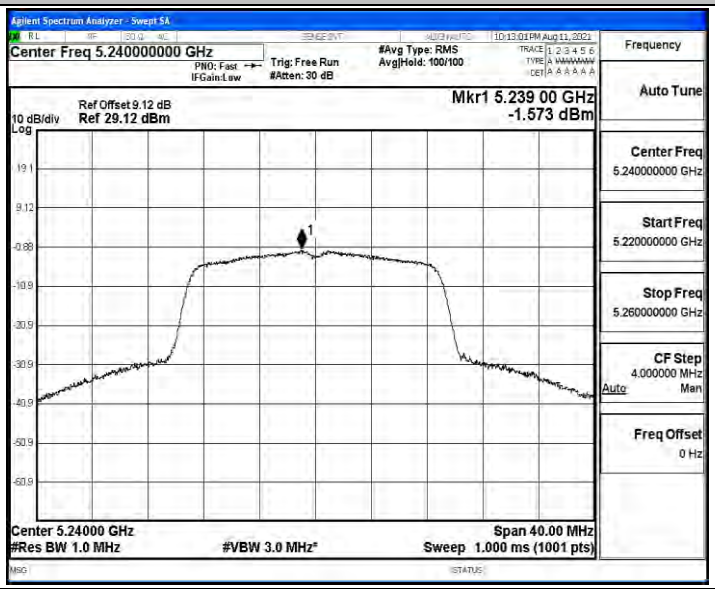
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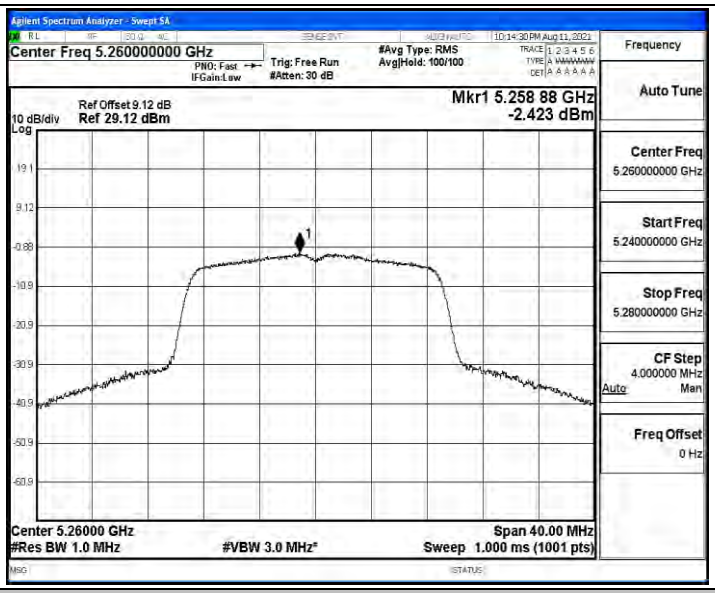

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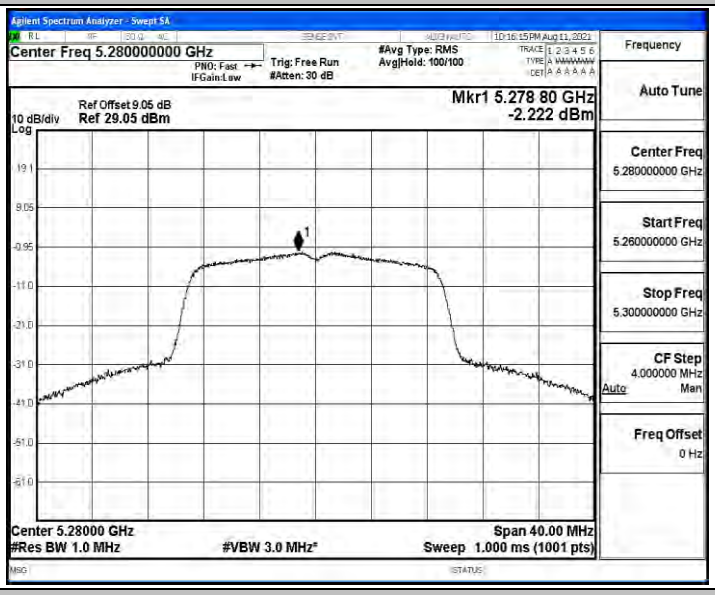

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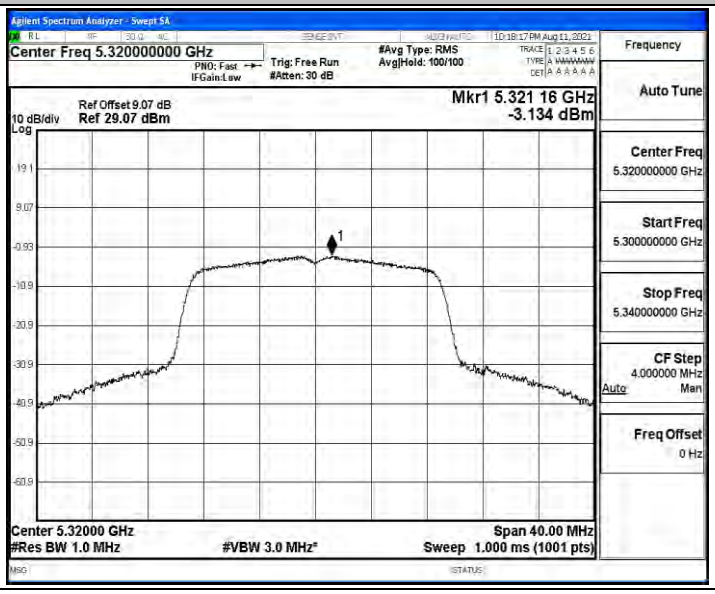

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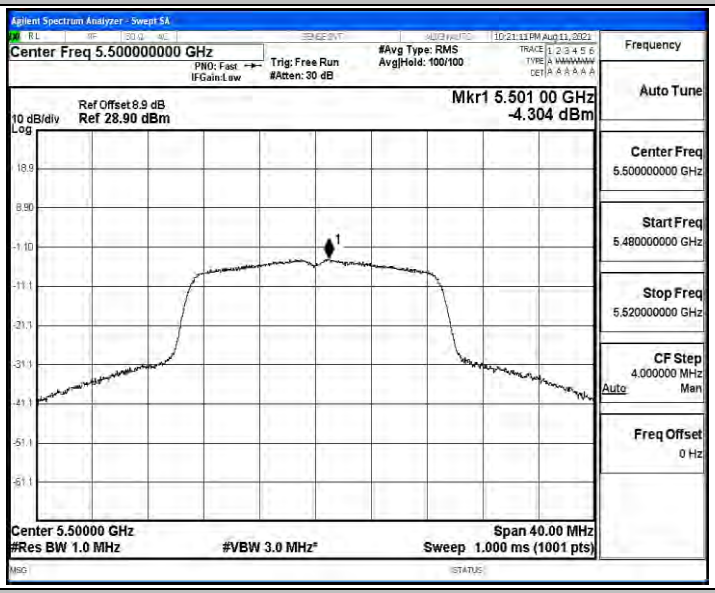
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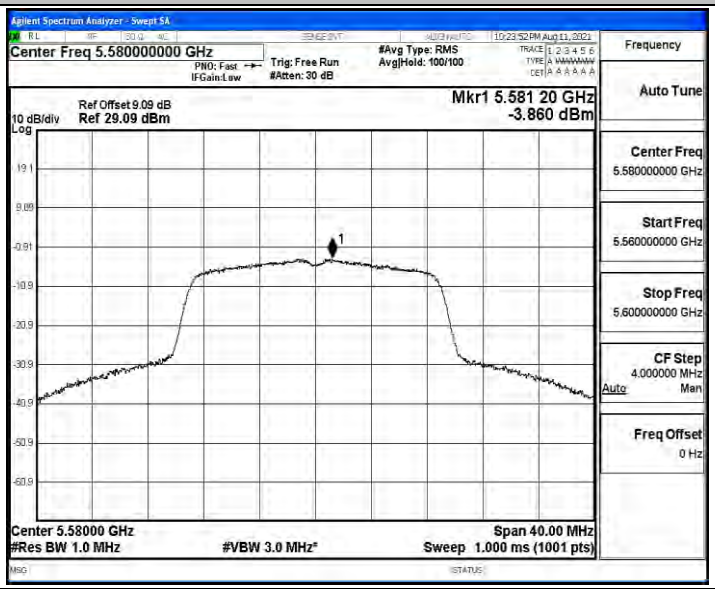
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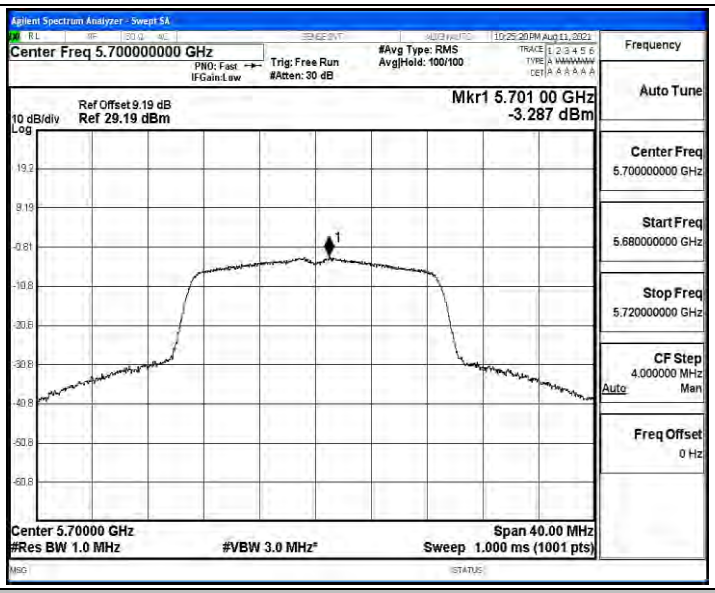

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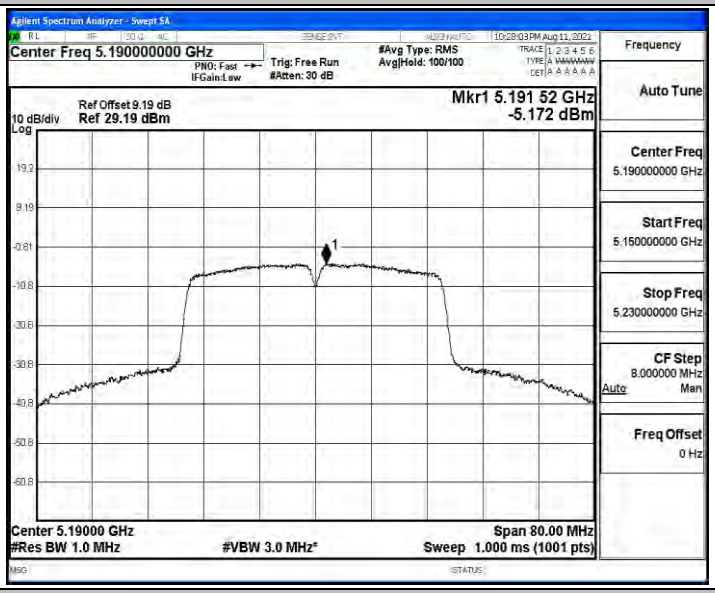

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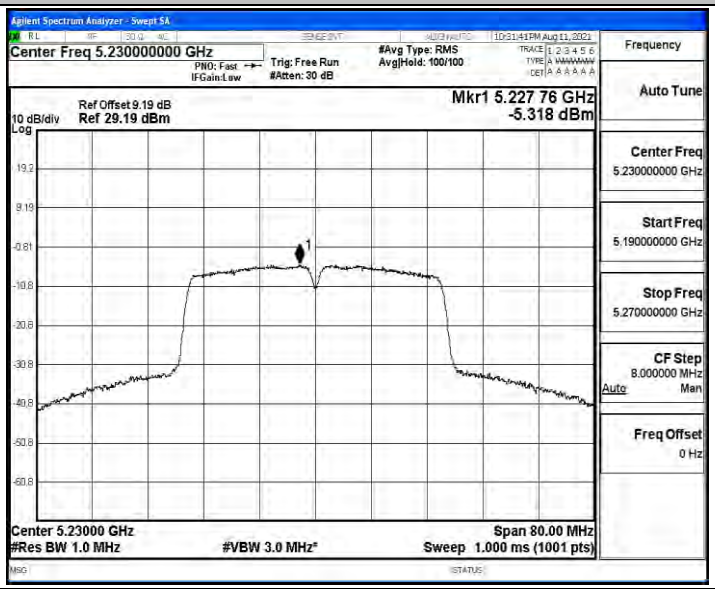

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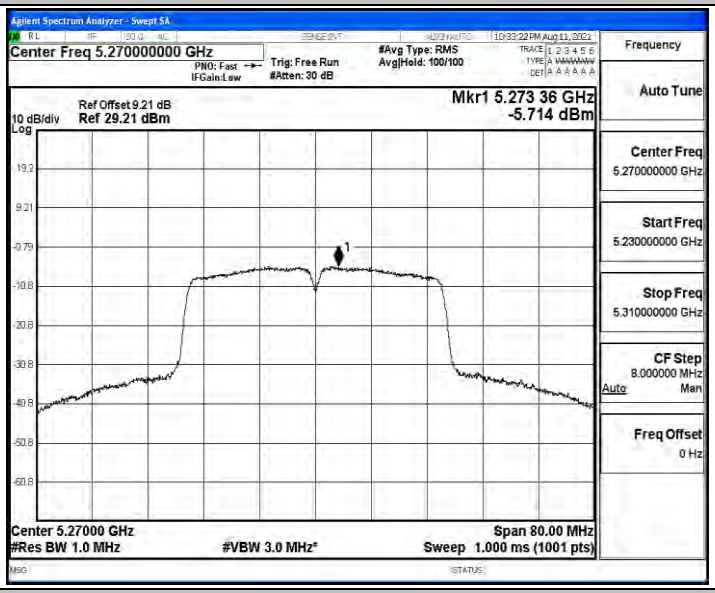
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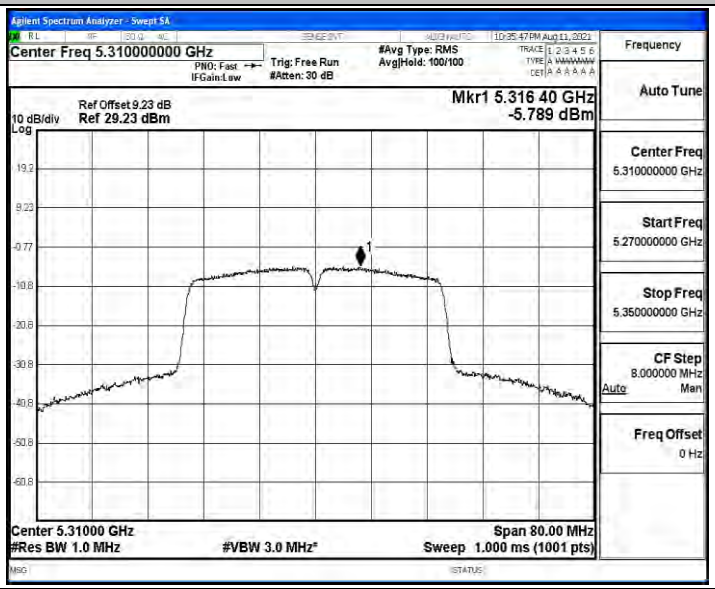
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