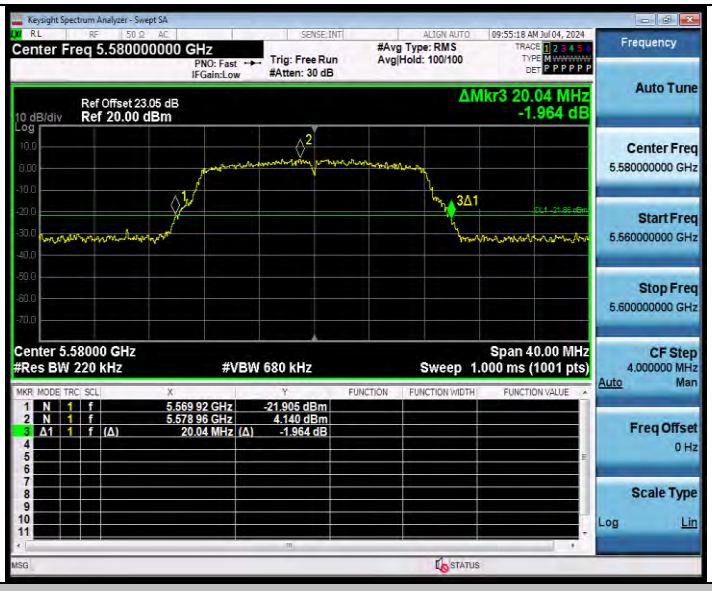
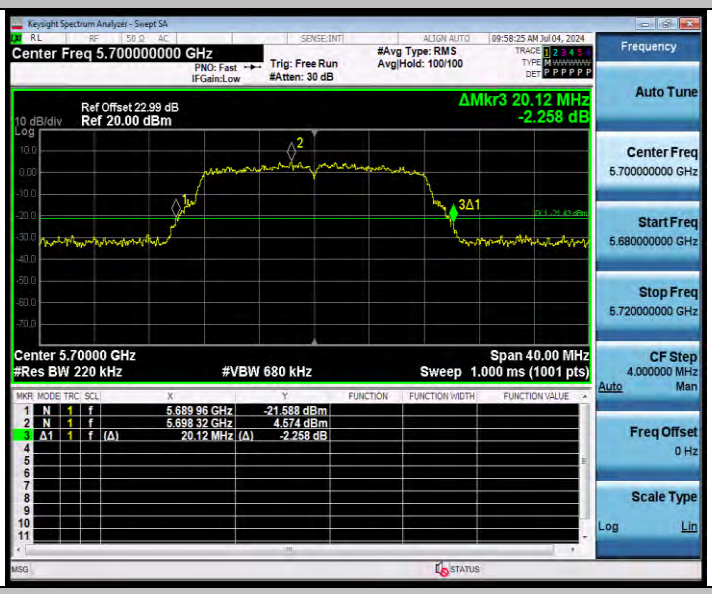
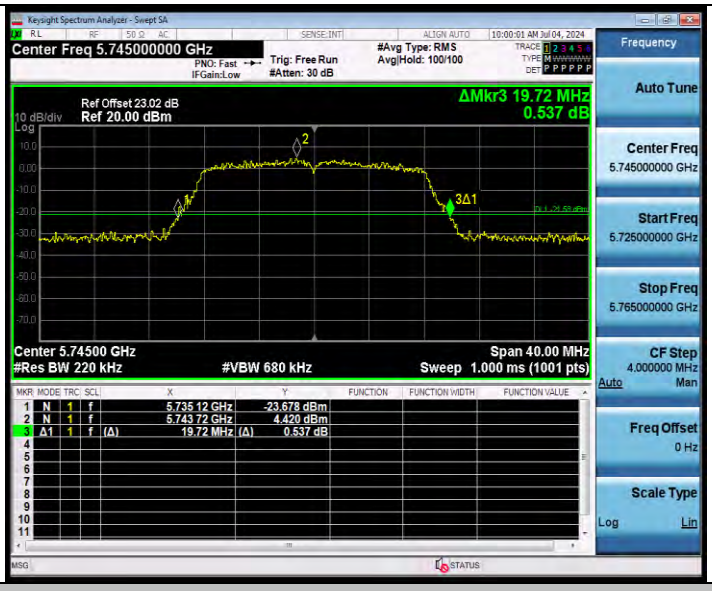


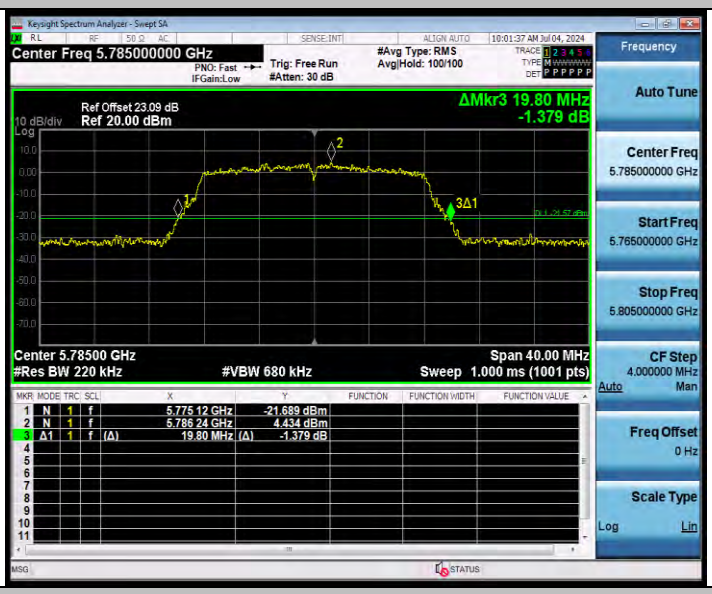
11A_Ant1_5700



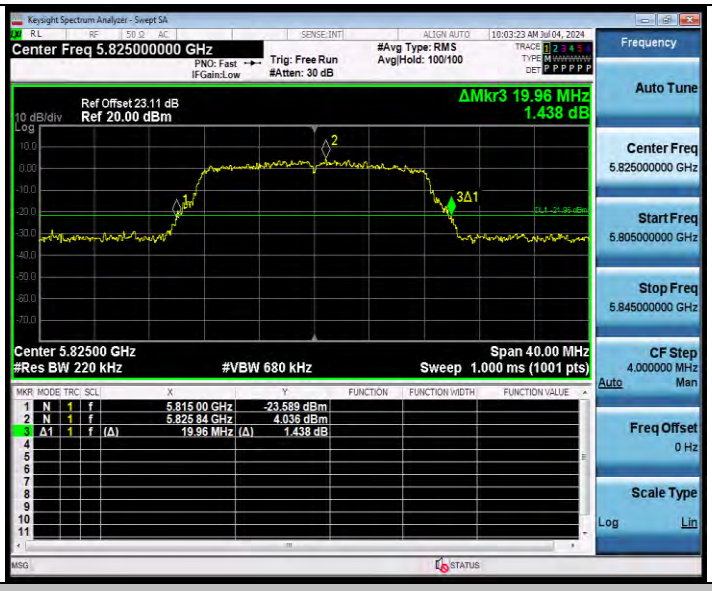
11A_Ant1_5745



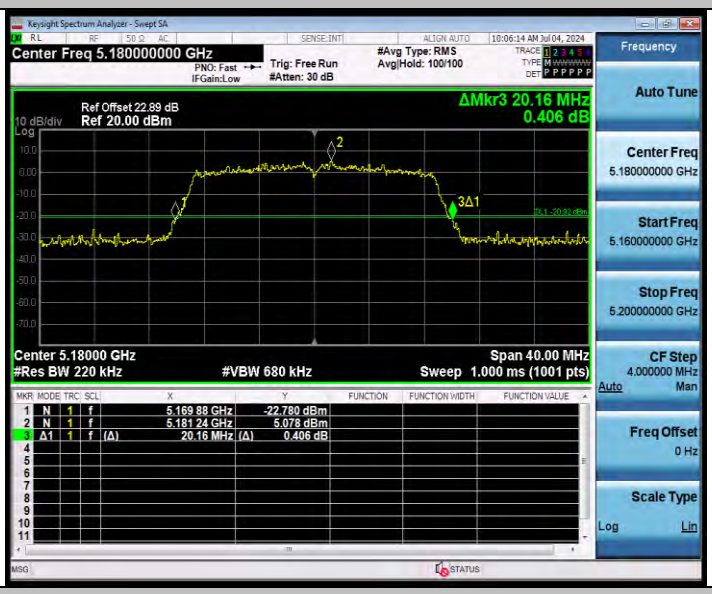
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



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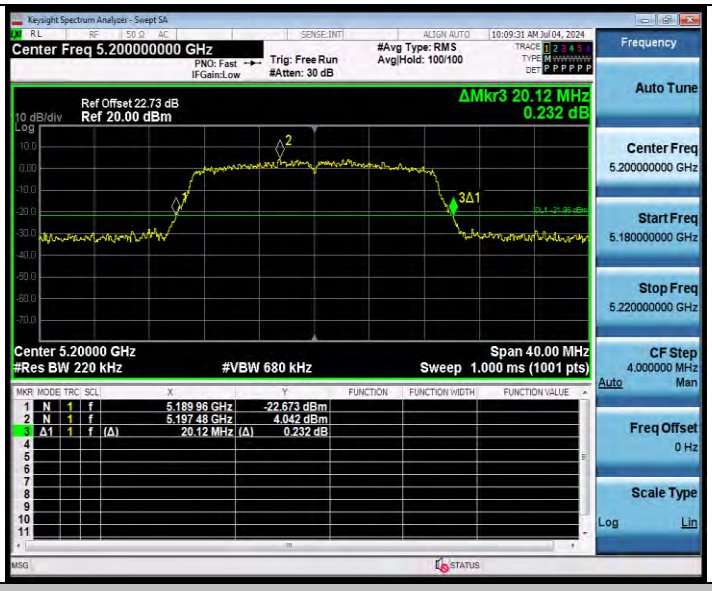
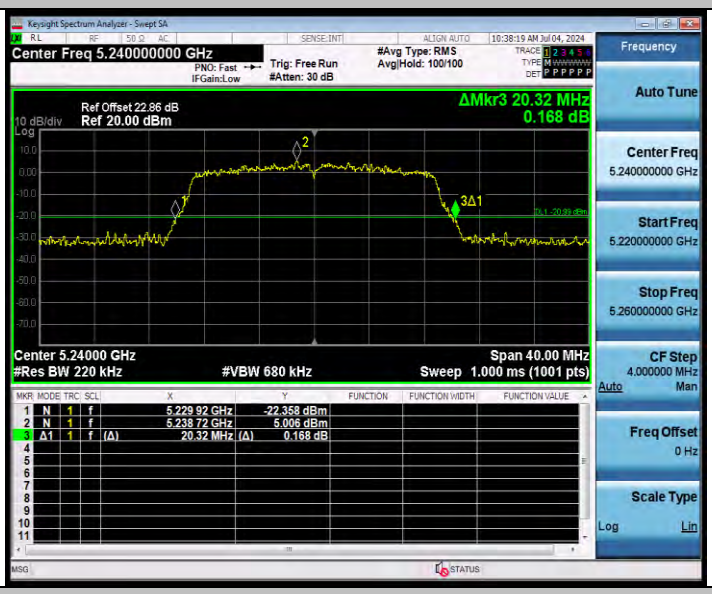


11N20SISO_Ant1_5240



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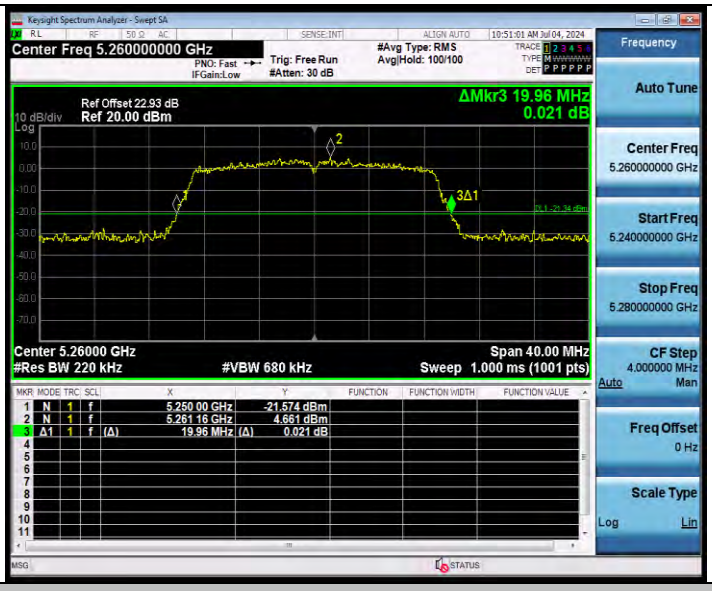

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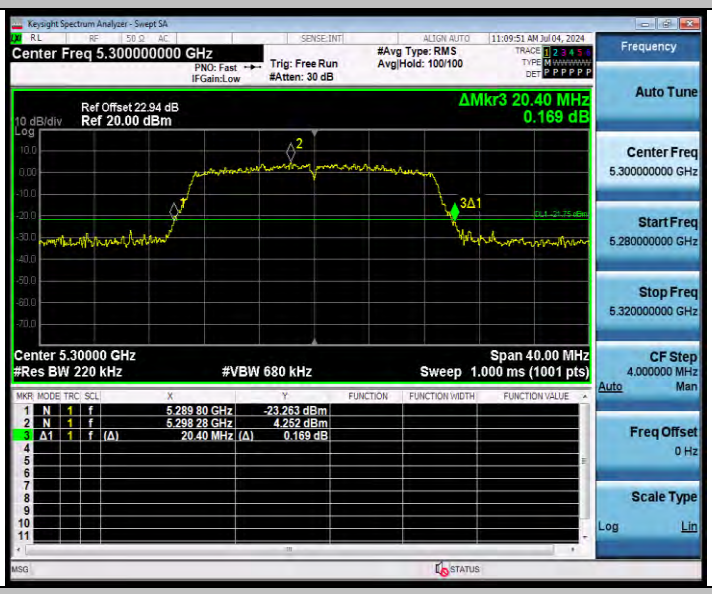

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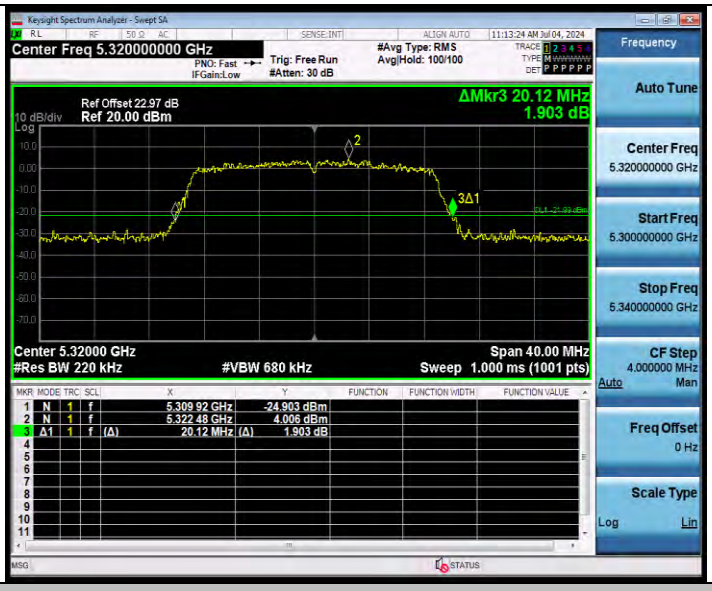
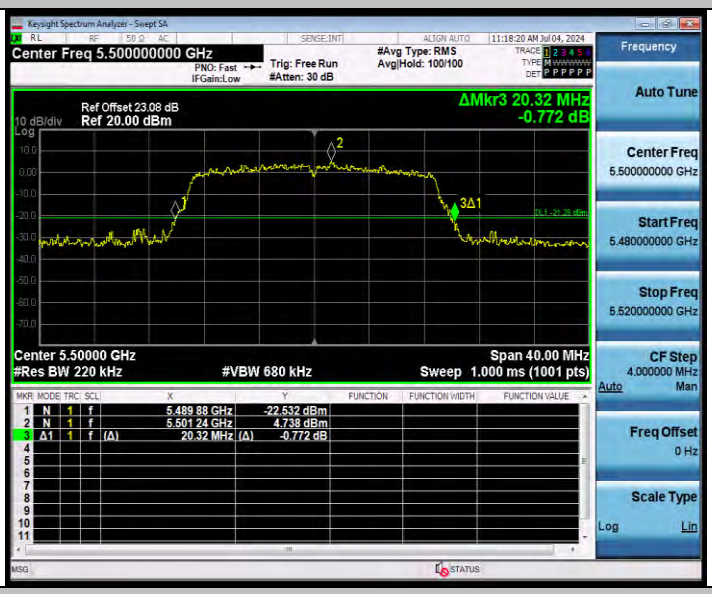
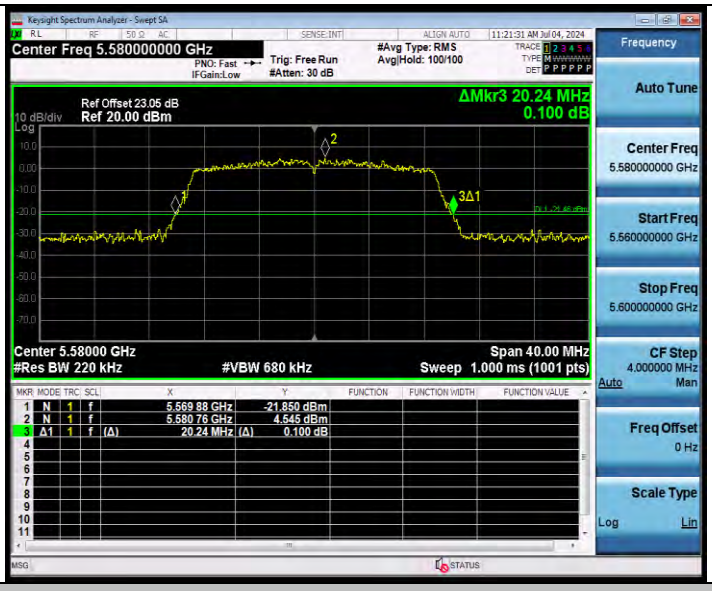


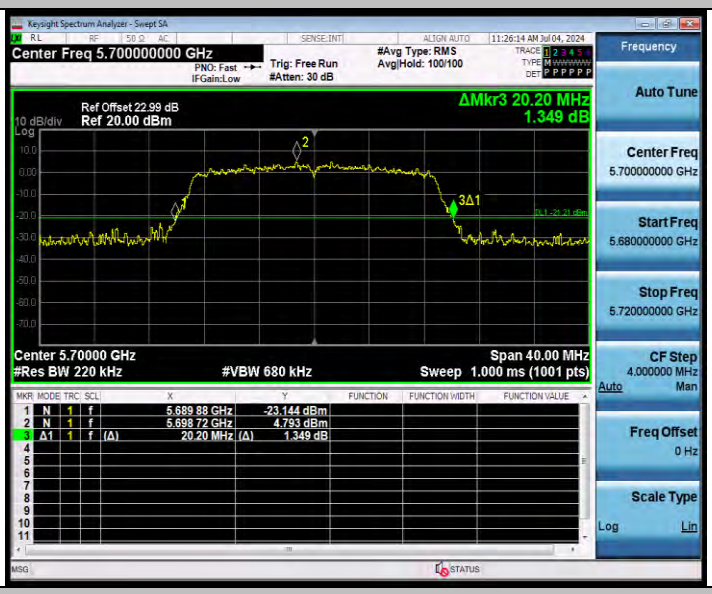
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



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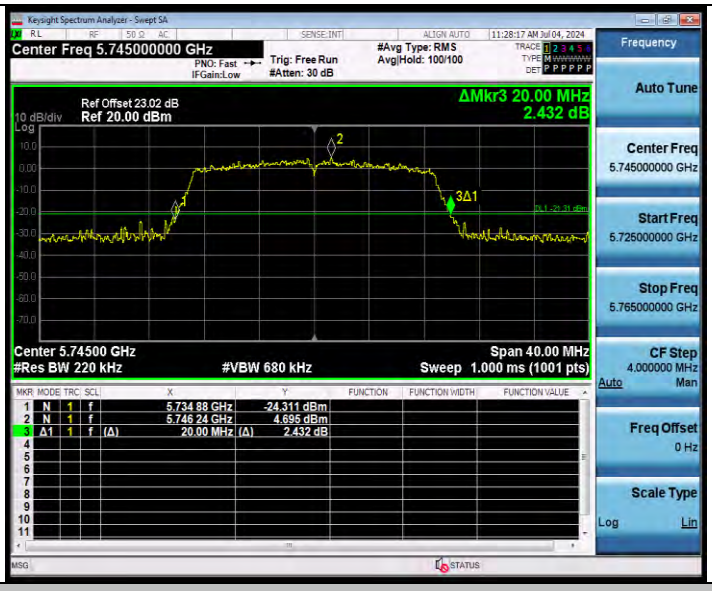
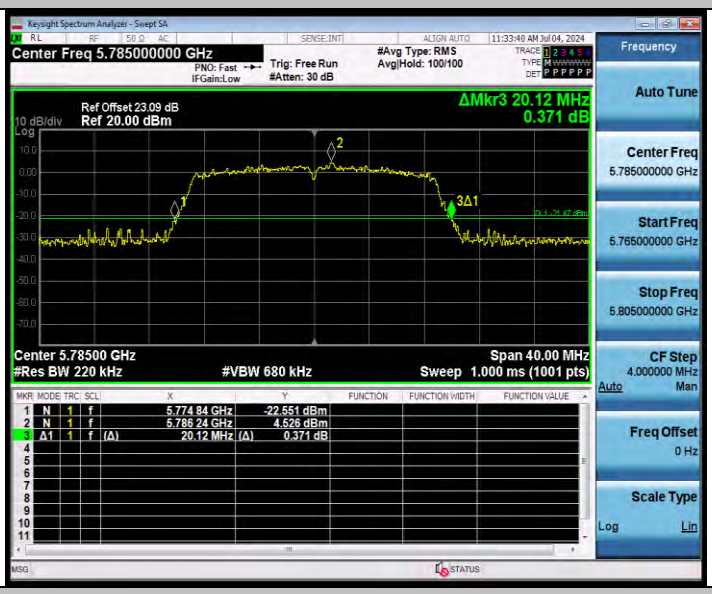


11N20SISO_Ant1_5785



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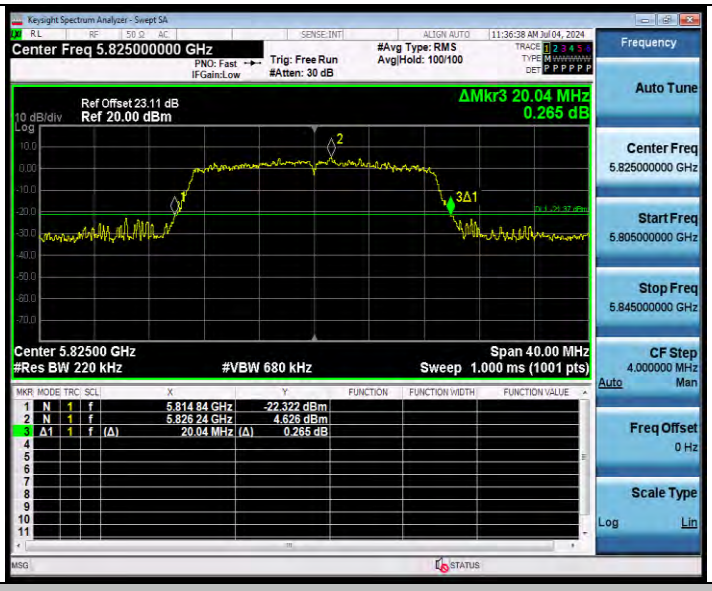

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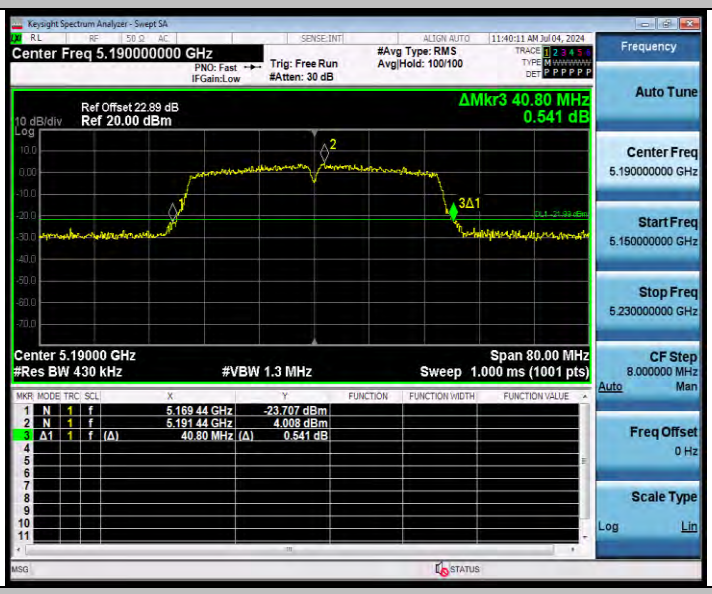

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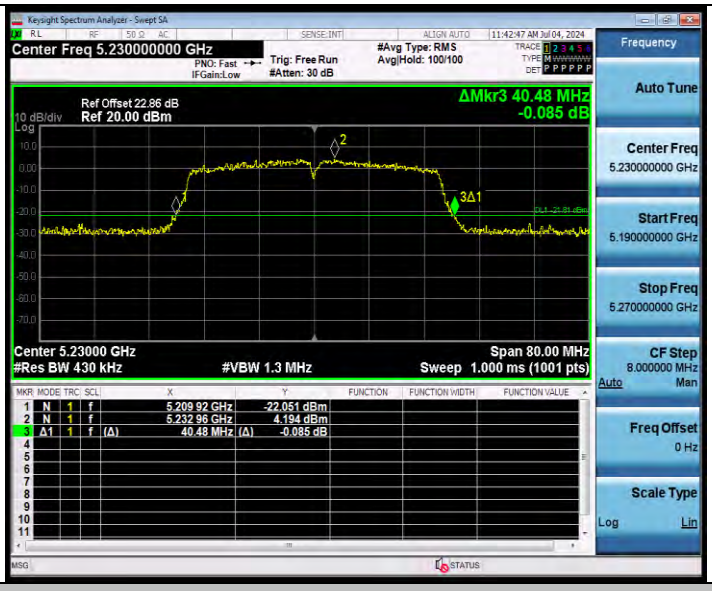

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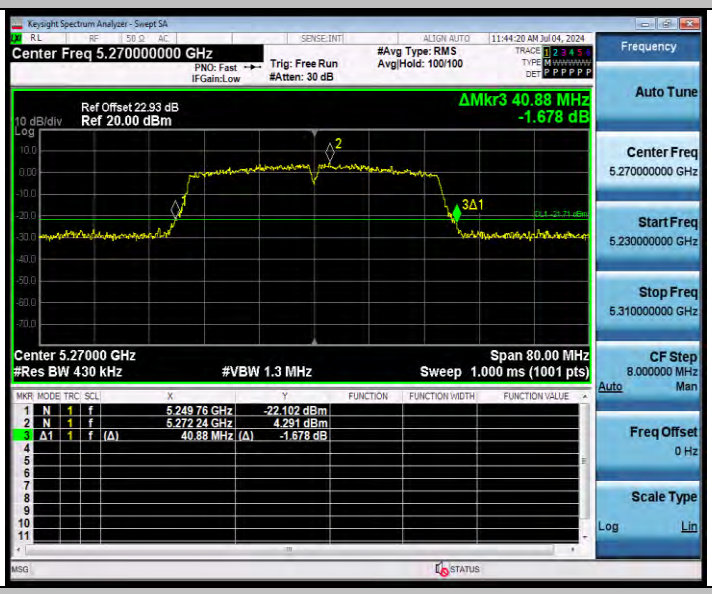

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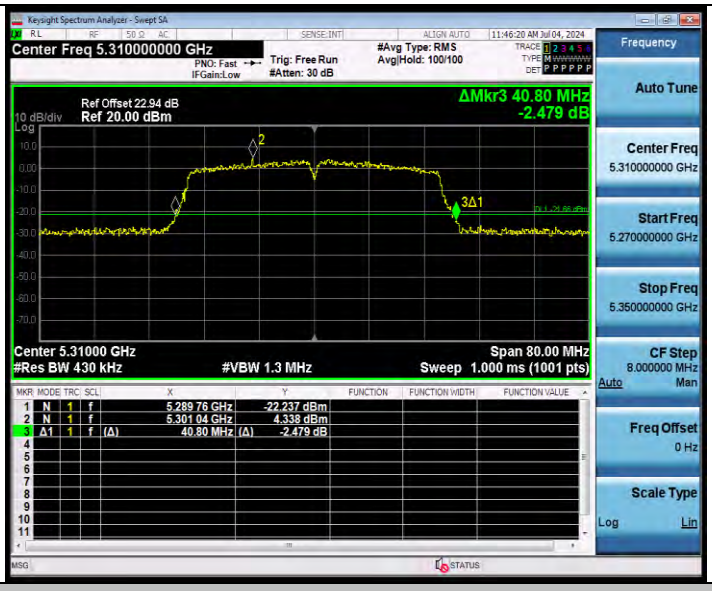

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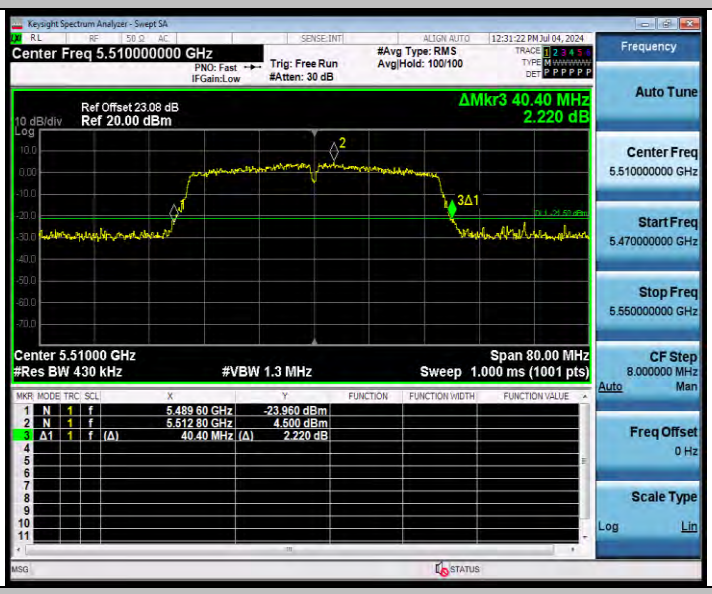

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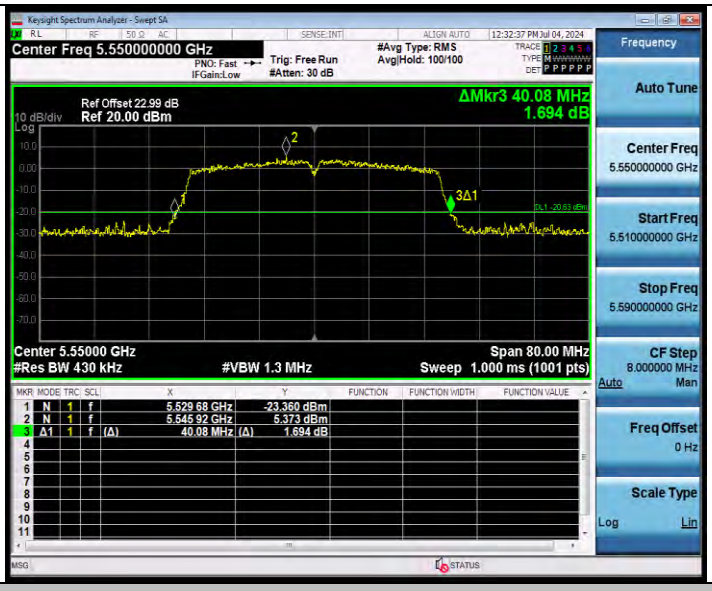

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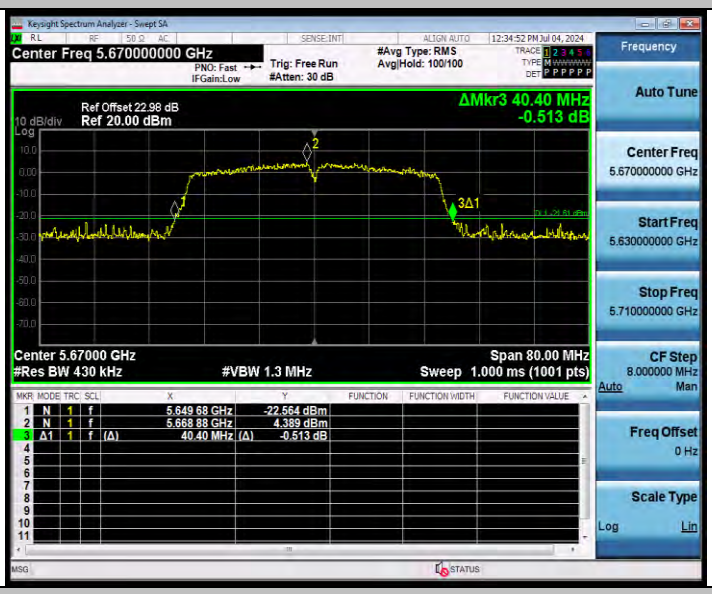

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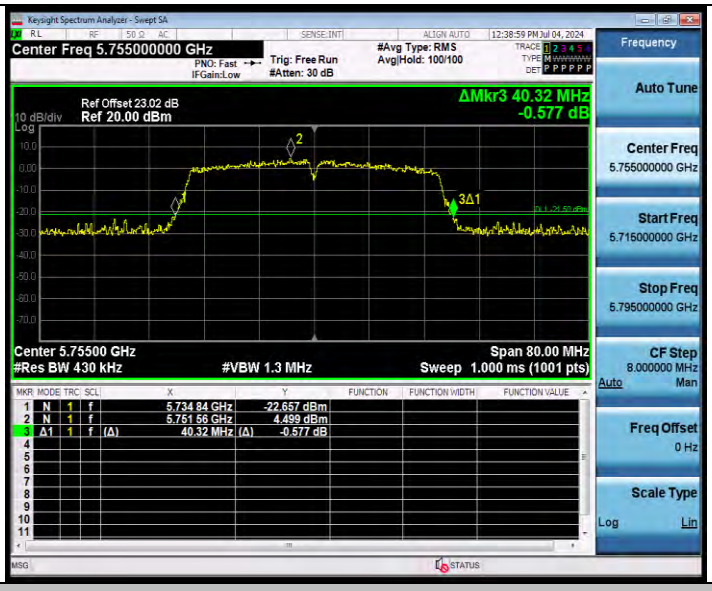
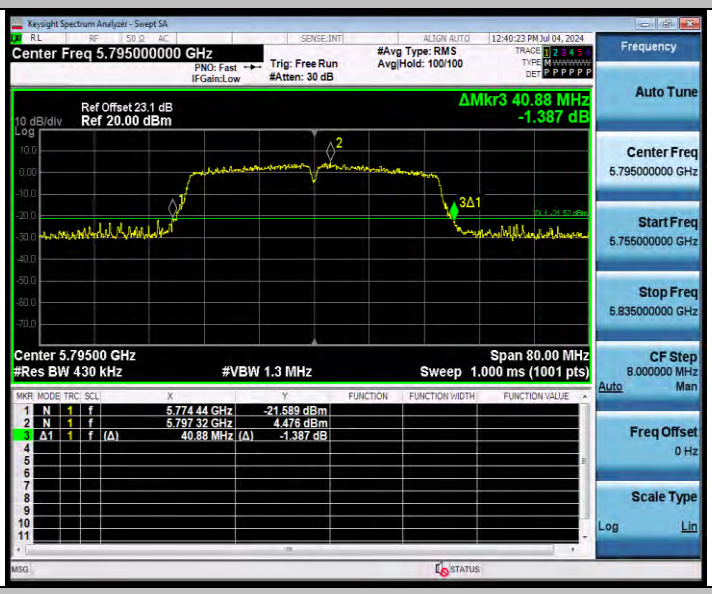


11N40SISO_Ant1_5795



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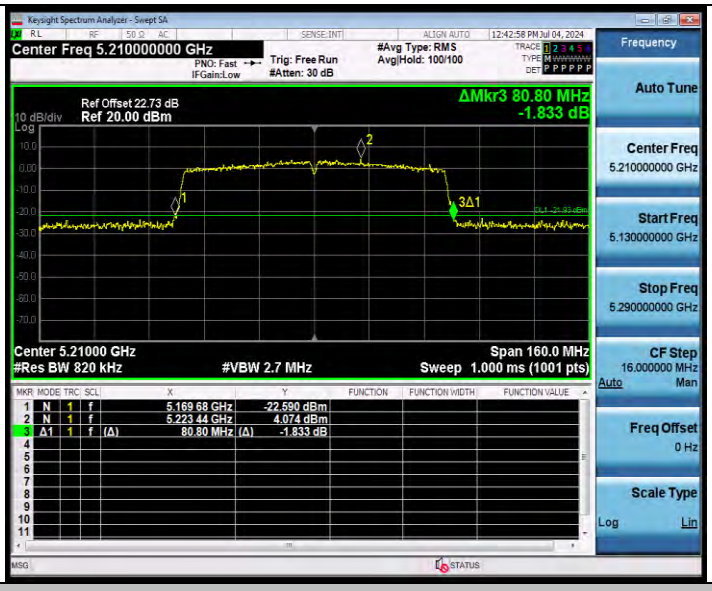

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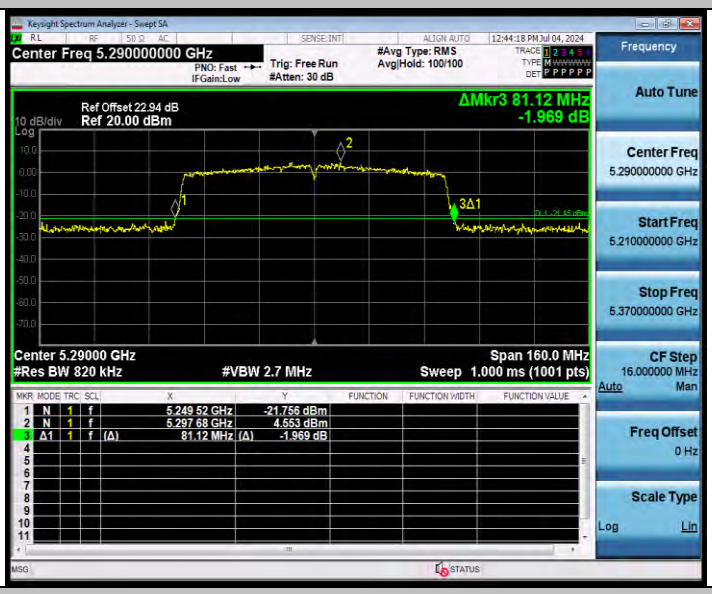

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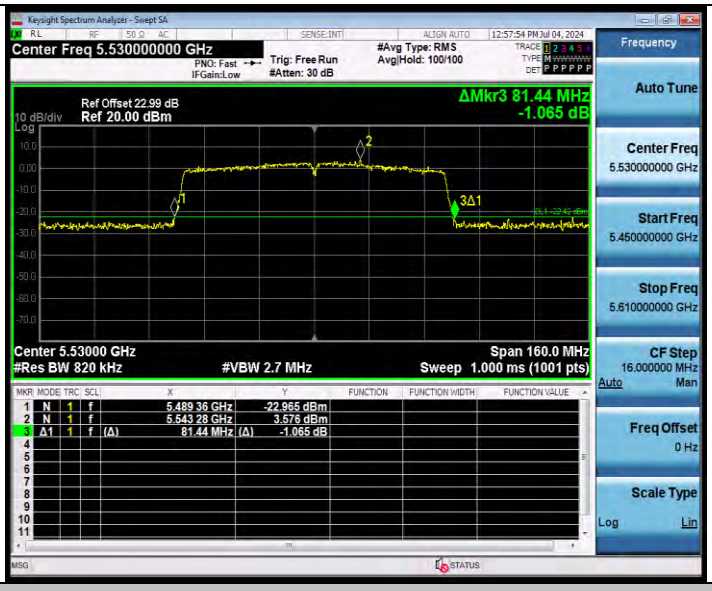

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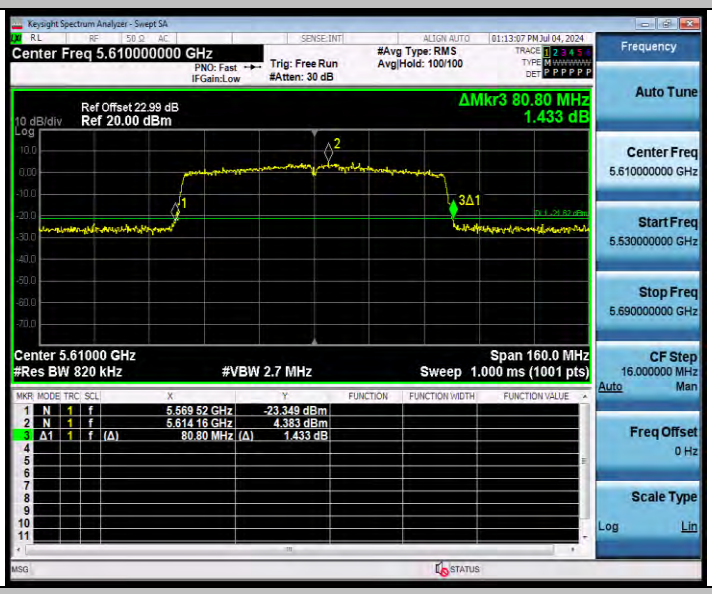
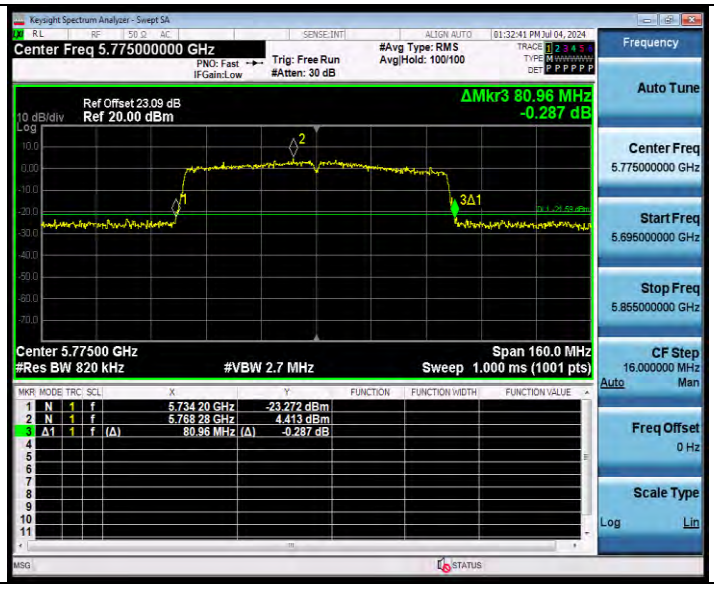


11AC80SISO_Ant1_5775


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
01:32:41 PM Jul 04, 2024
Ref Offset 23.09 dB
10 dB/div
Ref 20.00 dBm
Log
ΔMkr3 80.96 MHz
-0.287 dB
Center 5.77500 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 160.0 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.734 20 GHz -23.272 dBm
2 N 1 f 5.768 28 GHz 4.413 dBm
3 Δ1 1 f (Δ) 80.96 MHz (Δ) -0.287 dB
Frequency
Auto Tune
Center Freq
5.775000000 GHz
Start Freq
5.695000000 GHz
Stop Freq
5.855000000 GHz
CF Step
16.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

OCCUPIED CHANNEL BANDWIDTH

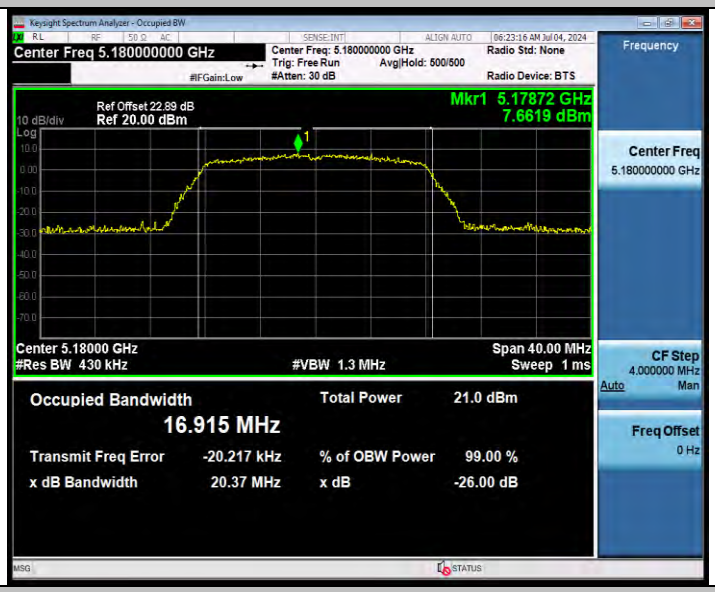
TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.915	5171.5223	5188.4373	---	---
		5200	16.940	5191.5039	5208.4439	---	---
		5240	16.938	5231.4825	5248.4205	---	---
		5260	16.926	5251.5302	5268.4562	---	---
		5280	16.942	5271.4938	5288.4358	---	---
		5300	16.907	5291.5299	5308.4369	---	---
		5320	16.936	5311.4963	5328.4323	---	---
		5500	16.964	5491.4825	5508.4465	---	---
		5580	16.918	5571.4909	5588.4089	---	---
		5700	16.947	5691.5087	5708.4557	---	---
		5745	16.944	5736.4698	5753.4138	---	---
		5785	16.936	5776.4921	5793.4281	---	---
		5825	16.894	5816.5177	5833.4117	---	---
11N20SISO	Ant1	5180	17.882	5171.0366	5188.9186	---	---
		5200	17.947	5191.0499	5208.9969	---	---
		5240	17.915	5231.0524	5248.9674	---	---
		5260	17.848	5251.0697	5268.9177	---	---
		5300	17.879	5291.0492	5308.9282	---	---
		5320	17.932	5311.0218	5328.9538	---	---
		5500	17.891	5491.0111	5508.9021	---	---
		5580	17.908	5571.0243	5588.9323	---	---
		5700	17.935	5690.9956	5708.9306	---	---
		5745	17.891	5736.0013	5753.8923	---	---
		5785	17.944	5776.0048	5793.9488	---	---
		5825	17.921	5815.9917	5833.9127	---	---
11N40SISO	Ant1	5190	36.402	5171.8266	5208.2286	---	---
		5230	36.330	5211.8560	5248.1860	---	---
		5270	36.409	5251.7792	5288.1882	---	---
		5310	36.289	5291.8571	5328.1461	---	---
		5510	36.425	5491.7790	5528.2040	---	---
		5550	36.305	5531.8178	5568.1228	---	---

		5670	36.343	5651.8029	5688.1459	---	---
		5755	36.448	5736.6953	5773.1433	---	---
		5795	36.503	5776.6649	5813.1679	---	---
11AC80SISO	Ant1	5210	75.466	5172.3010	5247.7670	---	---
		5290	75.449	5252.2941	5327.7431	---	---
		5530	75.469	5492.2611	5567.7301	---	---
		5610	75.460	5572.2440	5647.7040	---	---
		5775	75.528	5737.0672	5812.5952	---	---

TEST GRAPHS

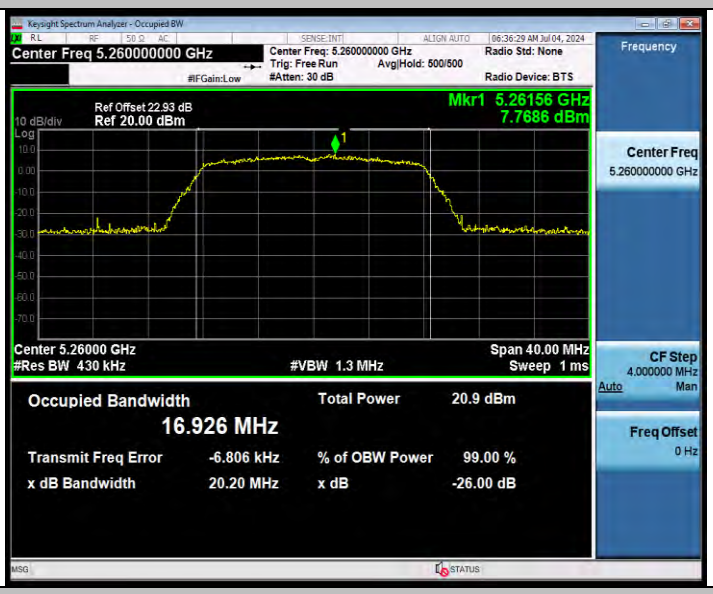
11A_Ant1_5180



11A_Ant1_5200

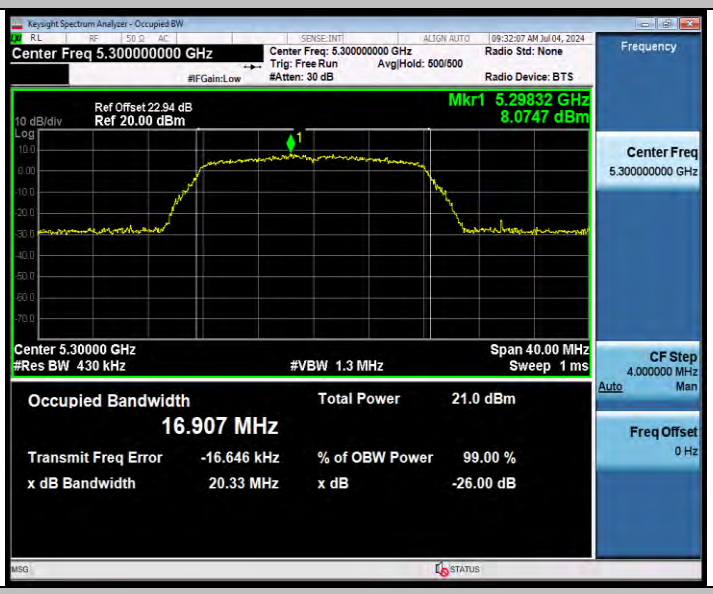
11A_Ant1_5240

11A_Ant1_5260



11A_Ant1_5280

11A_Ant1_5300

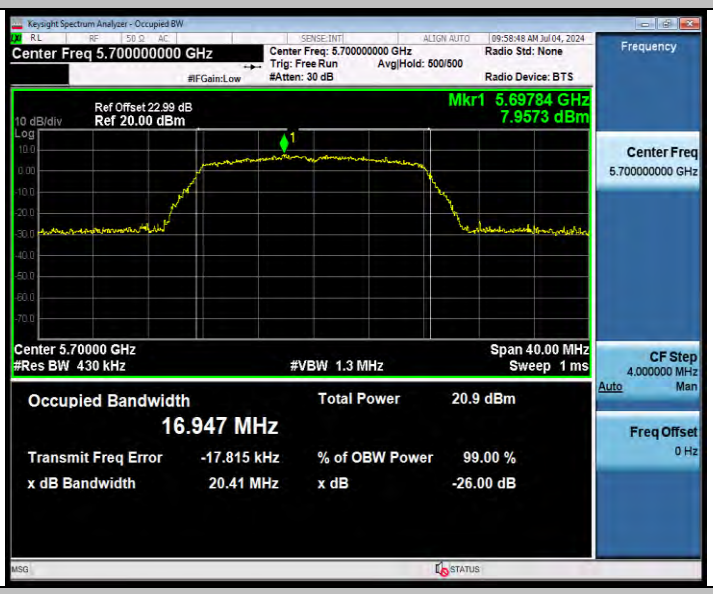


11A_Ant1_5320

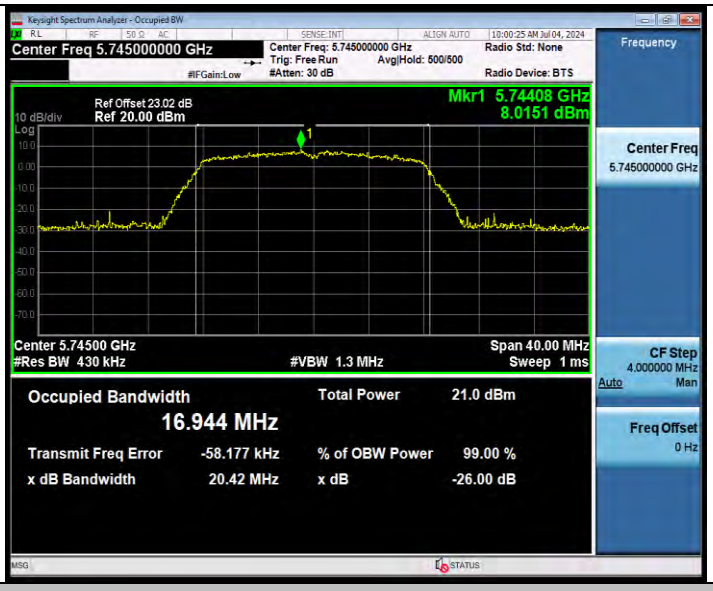
11A_Ant1_5500

11A_Ant1_5580

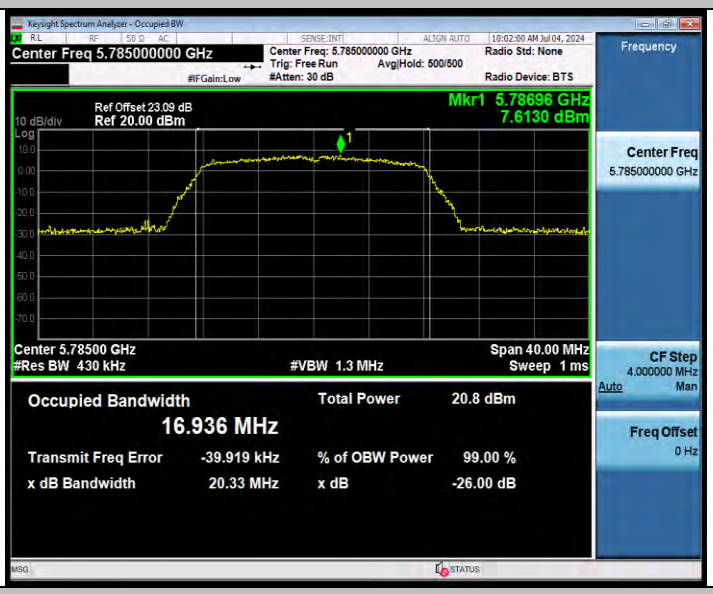
11A_Ant1_5700



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

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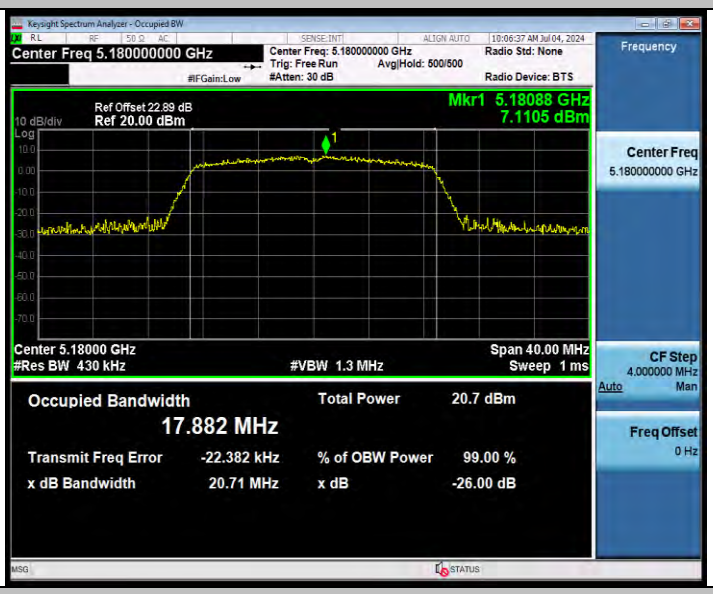
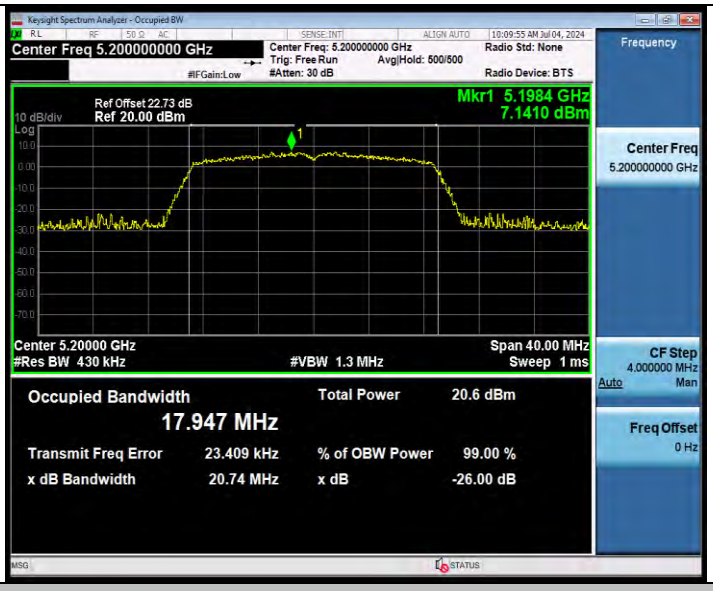


11N20SISO_Ant1_5200



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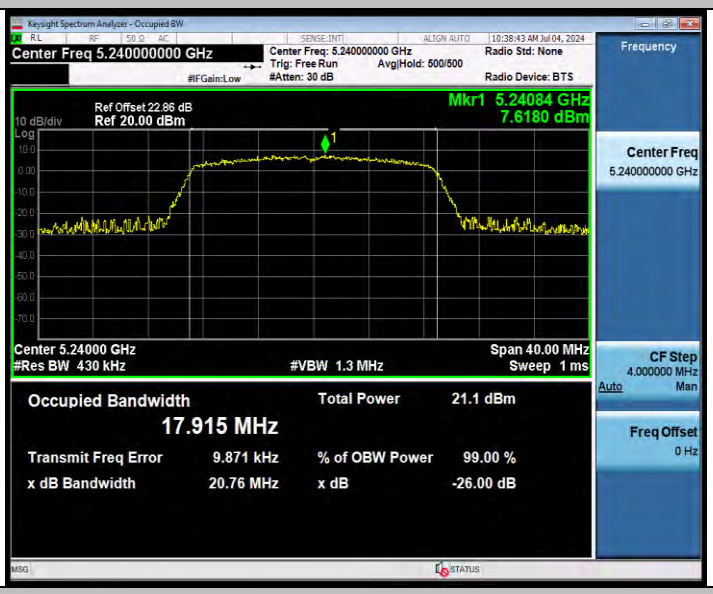
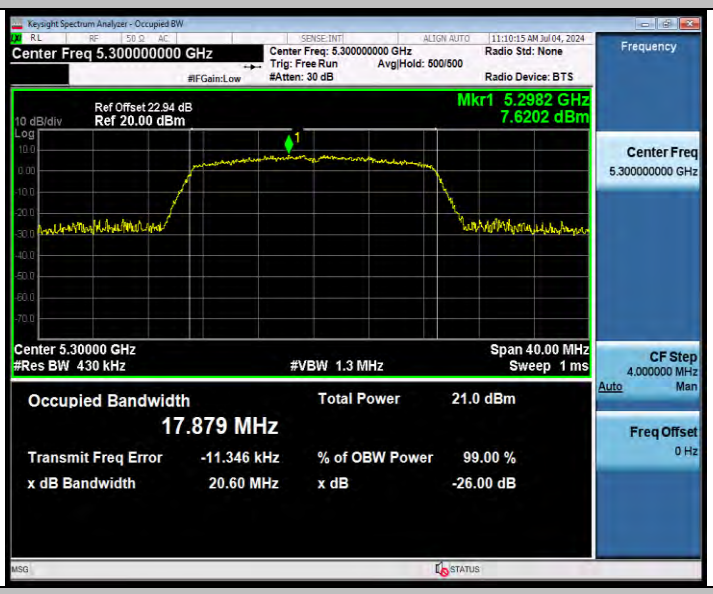


11N20SISO_Ant1_5260

11N20SISO_Ant1_5300



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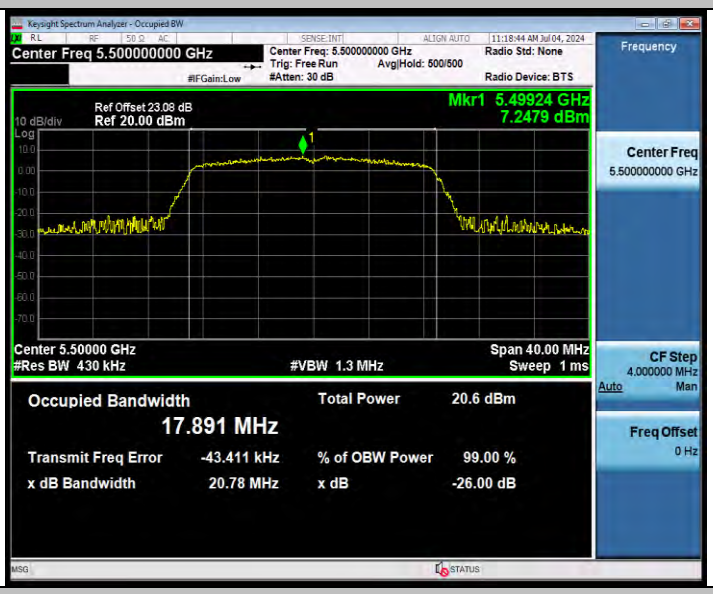
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580

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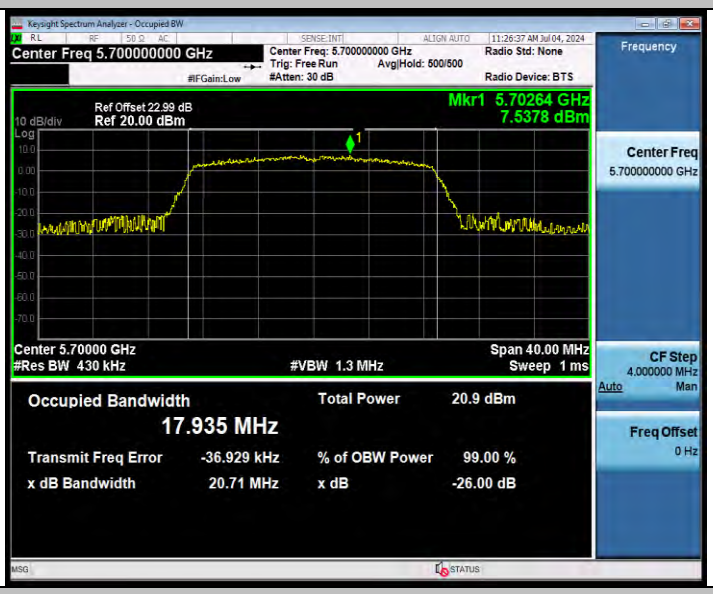
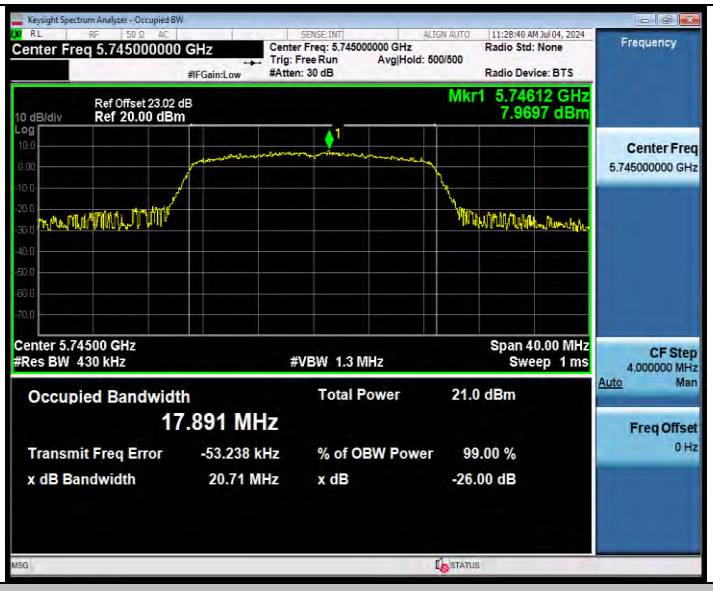
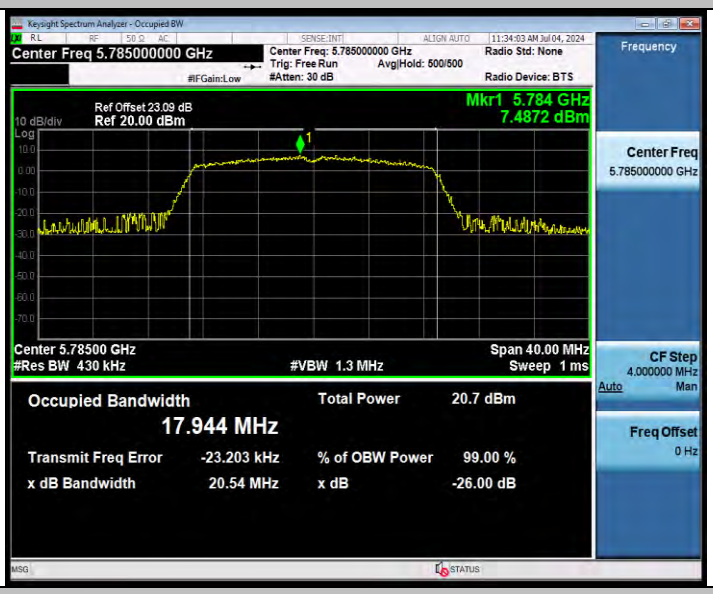


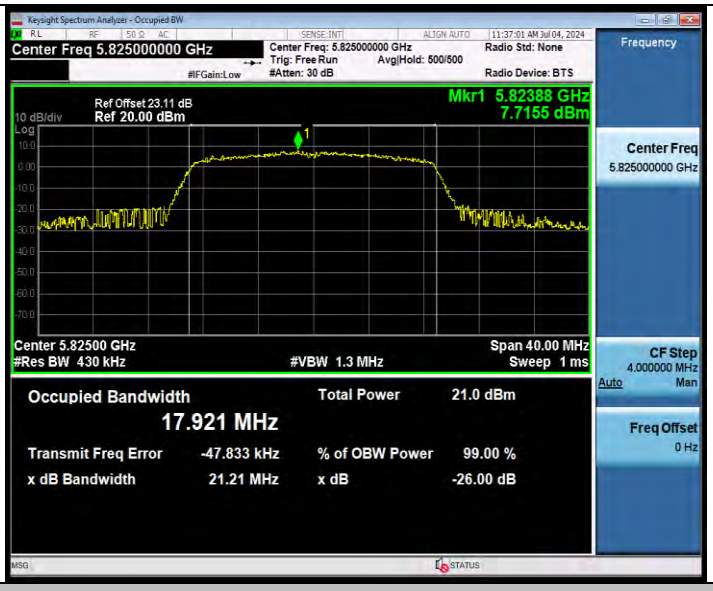
11N20SISO_Ant1_5745



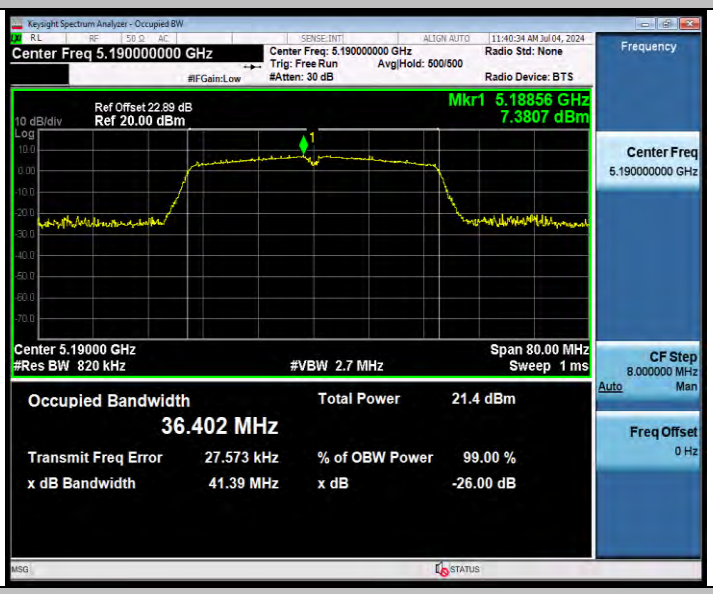
11N20SISO_Ant1_5785



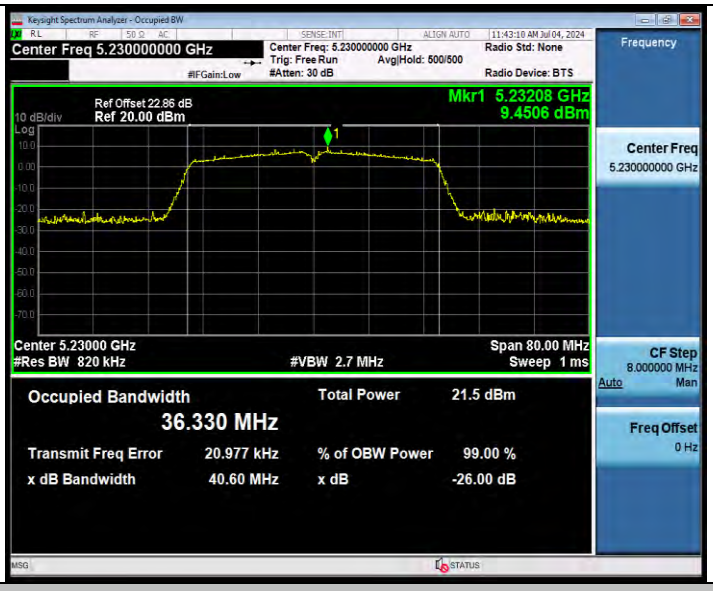
11N20SISO_Ant1_5825



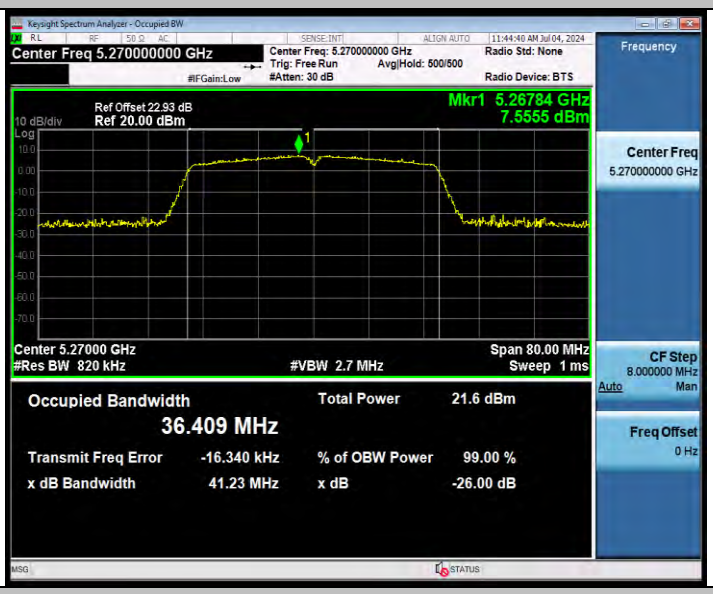
11N40SISO_Ant1_5190



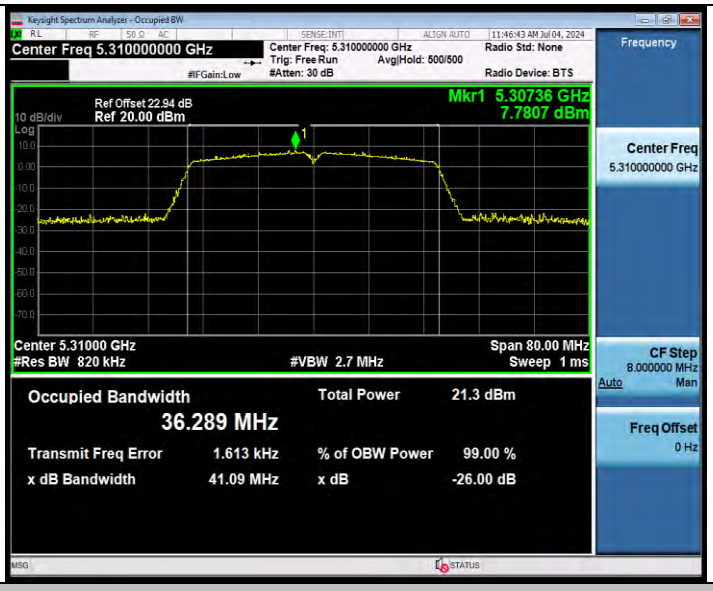
11N40SISO_Ant1_5230



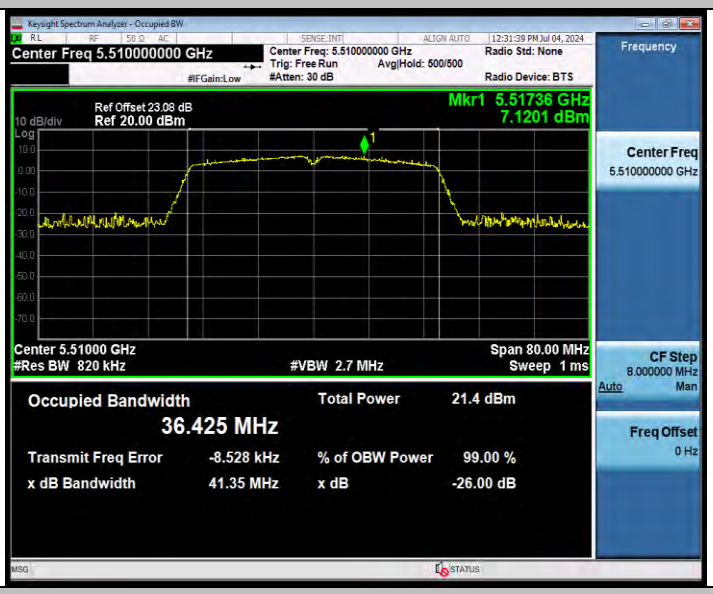
11N40SISO_Ant1_5270



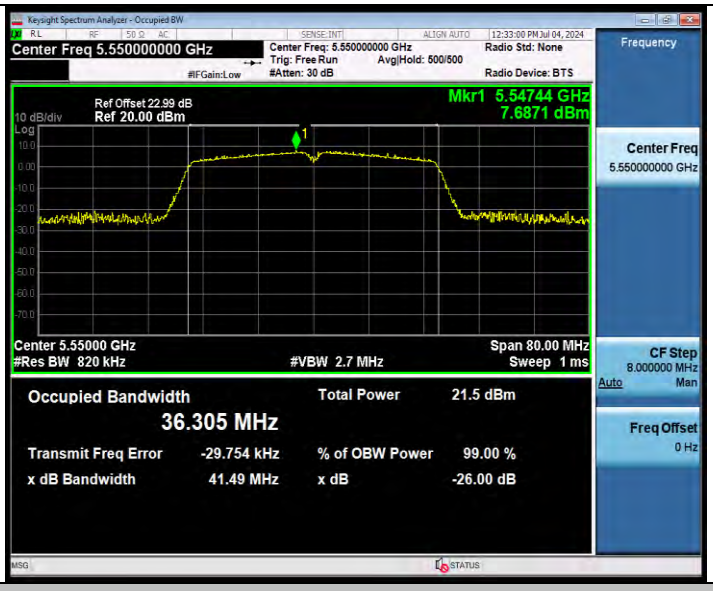
11N40SISO_Ant1_5310



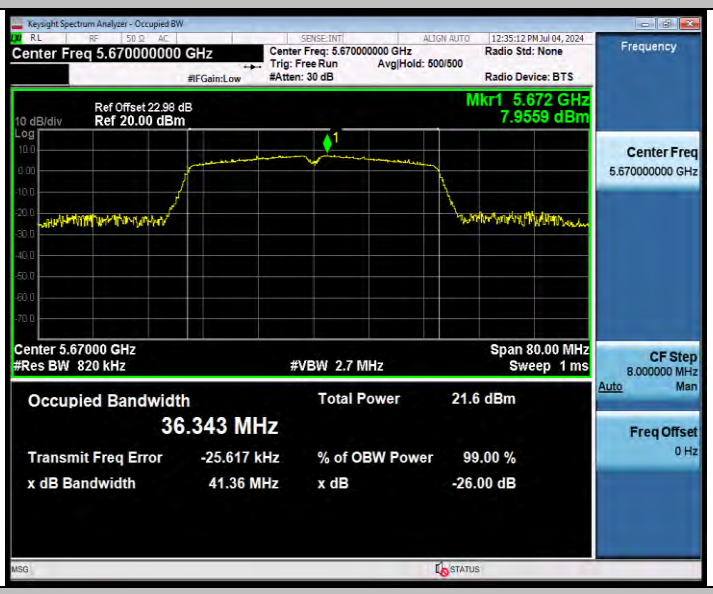
11N40SISO_Ant1_5510



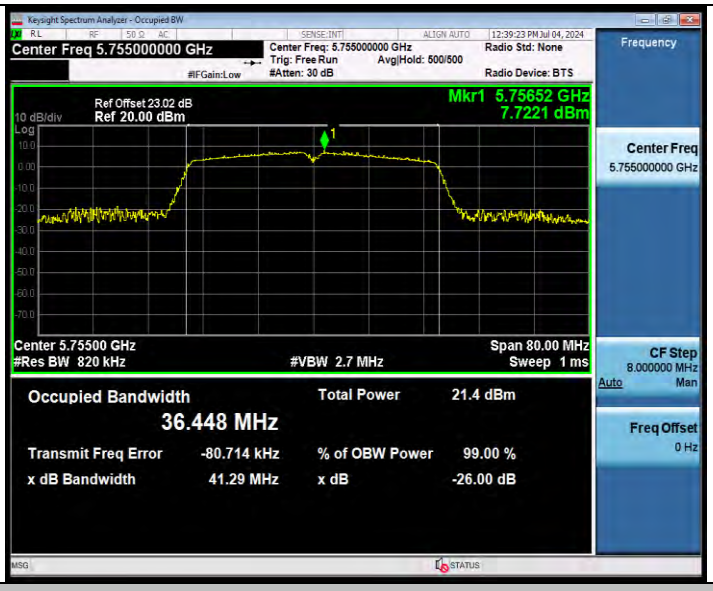
11N40SISO_Ant1_5550



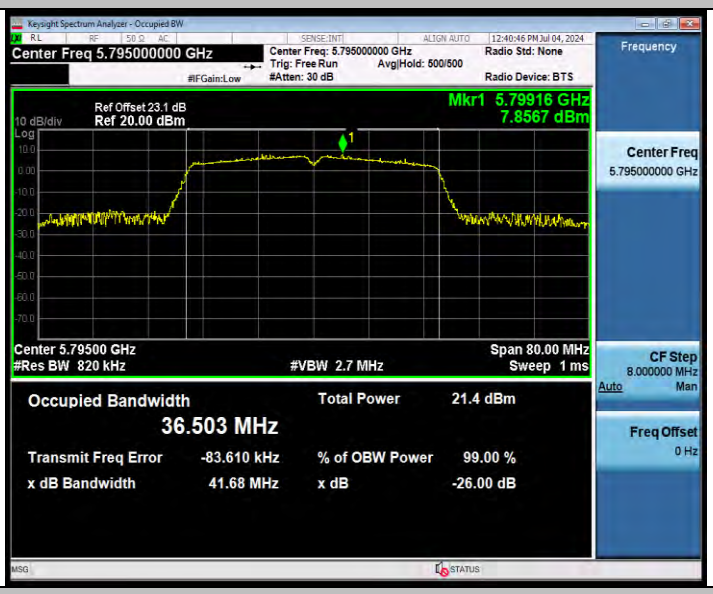
11N40SISO_Ant1_5670



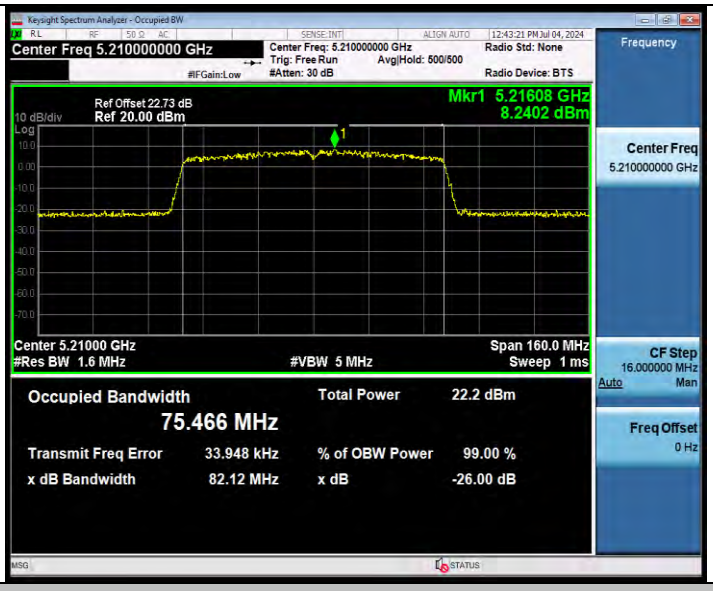
11N40SISO_Ant1_5755



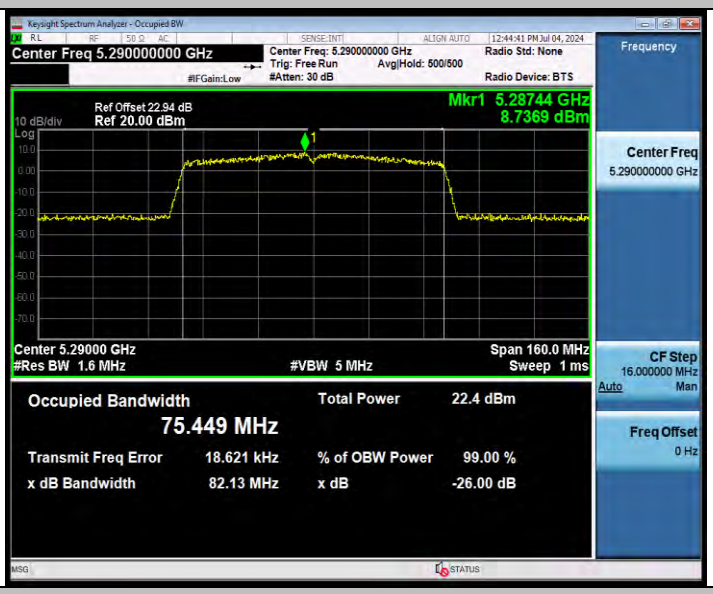
11N40SISO_Ant1_5795



11AC80SISO_Ant1_5210

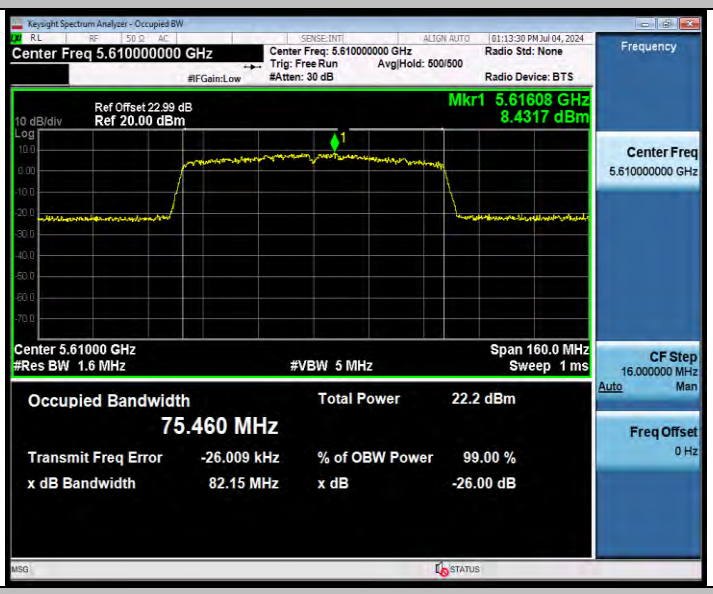


11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5530

11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5775

Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.775000000 GHz
Center Freq: 5.775000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 500/500
Radio Std: None
Radio Device: BTS
01:33:00 PM Jul 04, 2024
Frequency
Ref Offset 23.09 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.78108 GHz
8.1423 dBm
Center Freq
5.775000000 GHz
Center 5.77500 GHz
#Res BW 1.6 MHz
#VBW 5 MHz
Span 160.0 MHz
Sweep 1 ms
CF Step
16.000000 MHz
Auto
Man
Occupied Bandwidth
75.528 MHz
Total Power 22.0 dBm
Transmit Freq Error -168.83 kHz
% of OBW Power 99.00 %
x dB Bandwidth 81.79 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

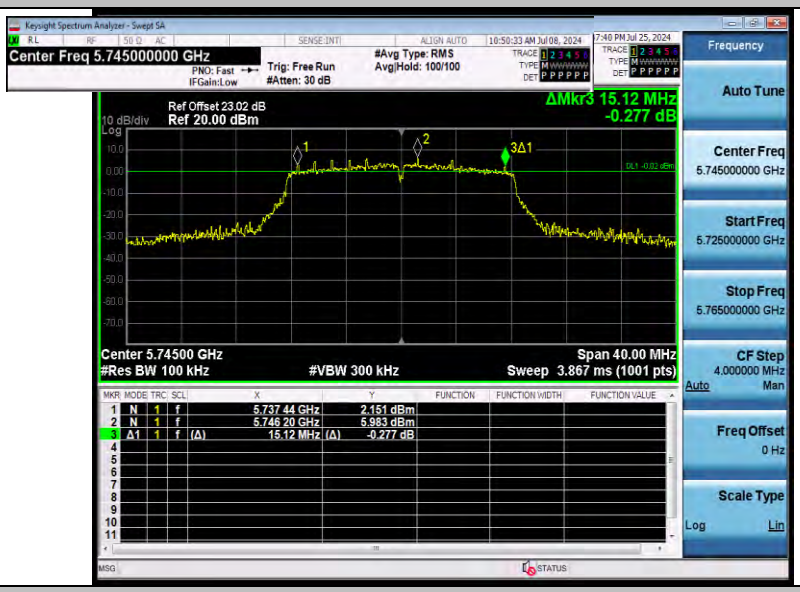
MIN EMISSION BANDWIDTH

TEST RESULT B4

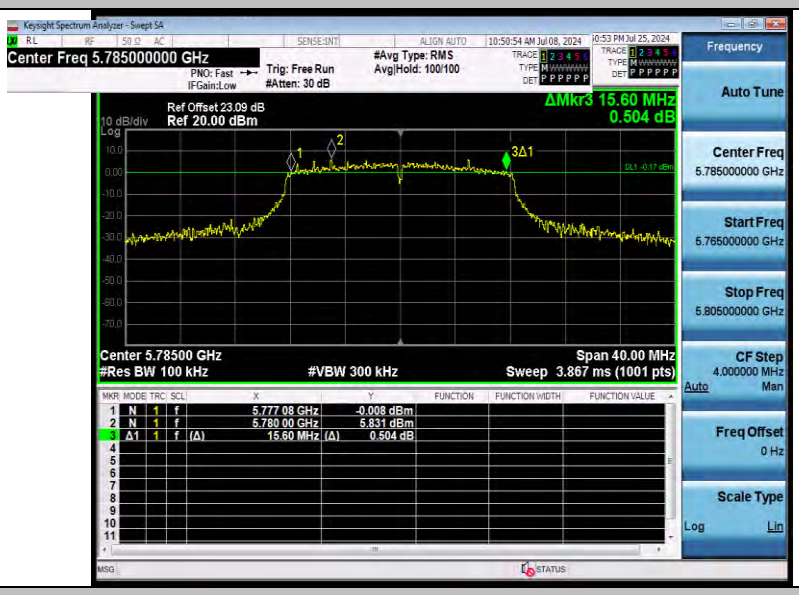
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.600	5777.080	5792.680	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant1	5745	14.160	5738.320	5752.480	0.5	PASS
		5785	14.640	5777.440	5792.080	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N40SISO	Ant1	5755	33.840	5738.680	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS

TEST GRAPHS B4

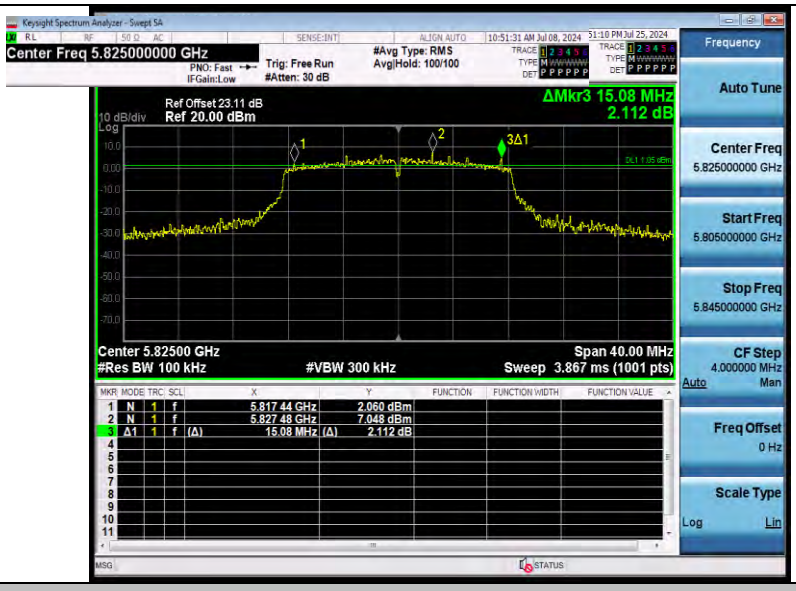
11A_Ant1_5745



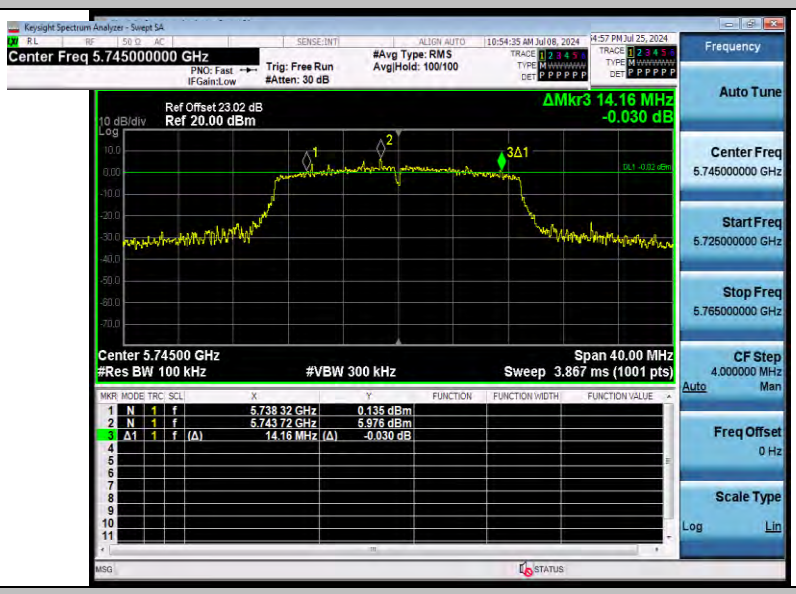
11A_Ant1_5785



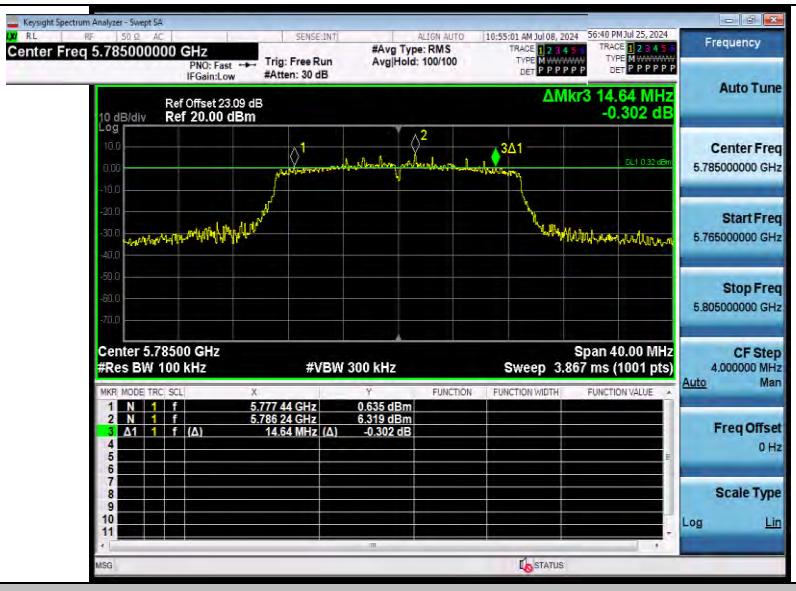
11A_Ant1_5825



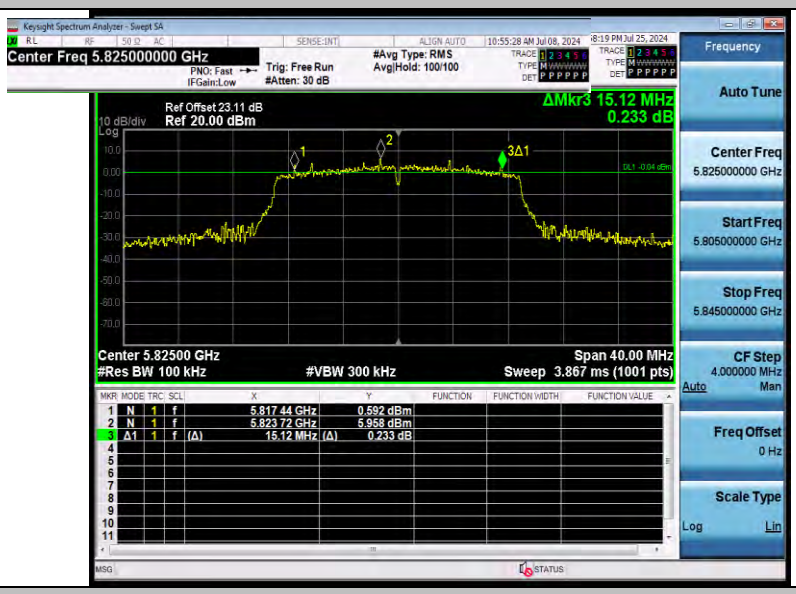
11N20SISO_Ant1_5745



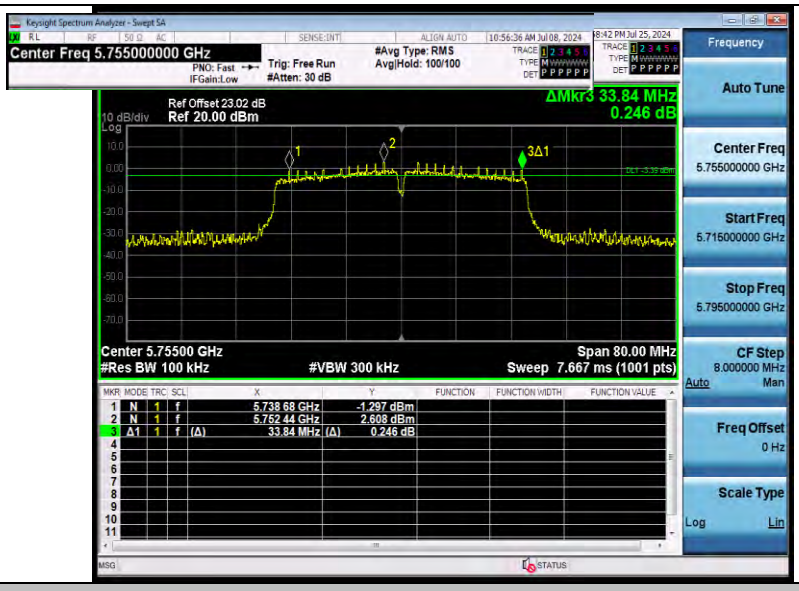
11N20SISO_Ant1_5785



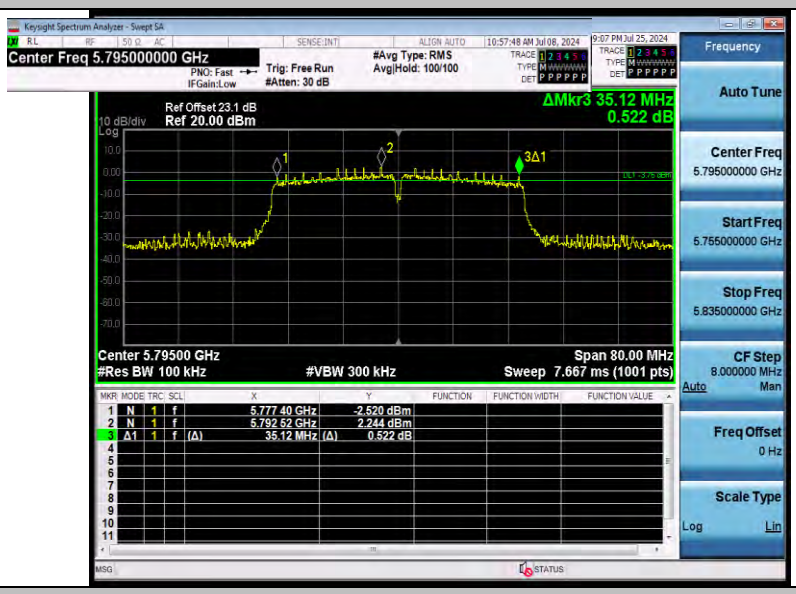
11N20SISO_Ant1_5825



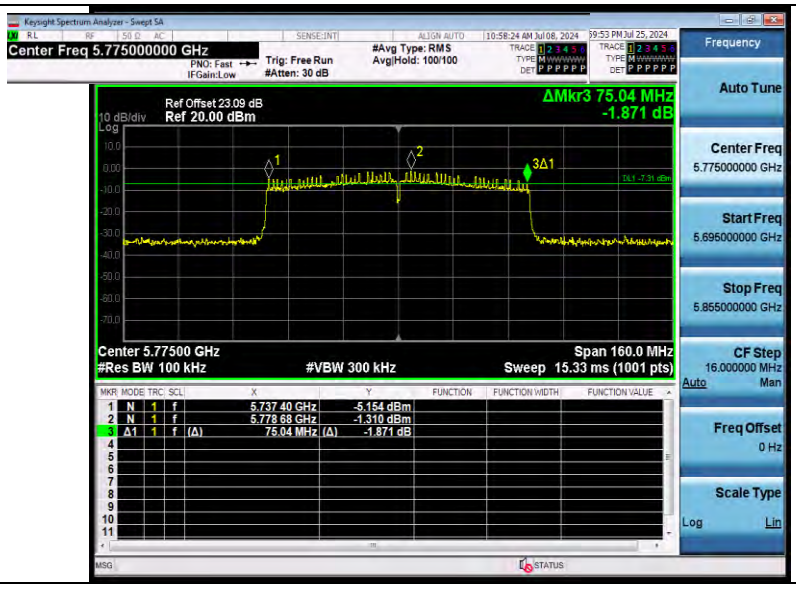
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC80SISO_Ant1_5775


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 23.09 dB
10 dB/div Ref 20.00 dBm
Log
ΔMkr3 75.04 MHz
-1.871 dB
Center 5.77500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 160.0 MHz
Sweep 15.33 ms (1001 pts)
1 N 1 f 5.737 40 GHz -5.154 dBm
2 N 1 f 5.778 68 GHz -1.310 dBm
3 Δ1 1 f (Δ) 75.04 MHz (Δ) -1.871 dB
Frequency
Auto Tune
Center Freq
5.775000000 GHz
Start Freq
5.695000000 GHz
Stop Freq
5.855000000 GHz
CF Step
16.000000 MHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin

DUTY CYCLE

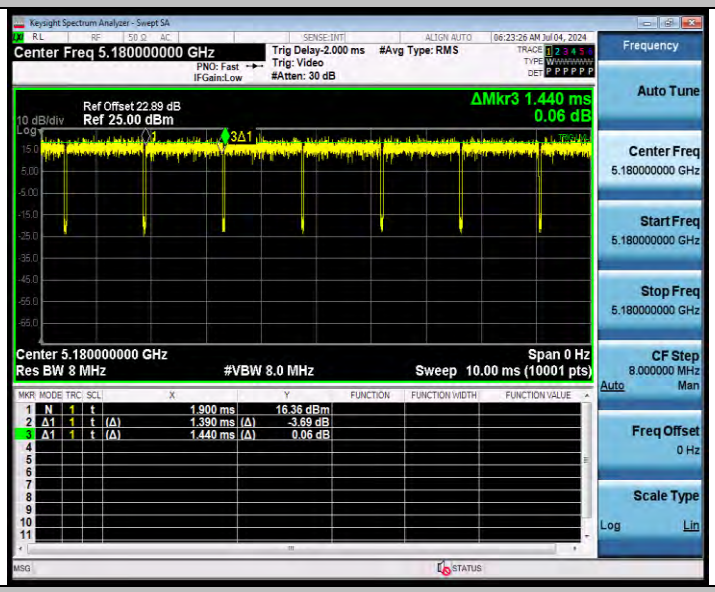
TEST RESULT

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.44	96.53
		5200	1.39	1.44	96.53
		5240	1.39	1.44	96.53
		5260	1.39	1.43	97.20
		5280	1.39	1.44	96.53
		5300	1.40	1.44	97.22
		5320	1.39	1.44	96.53
		5500	1.39	1.43	97.20
		5580	1.39	1.44	96.53
		5700	1.39	1.43	97.20
		5745	1.39	1.44	96.53
		5785	1.39	1.43	97.20
		5825	1.39	1.43	97.20
11N20SISO	Ant1	5180	1.30	1.34	97.01
		5200	1.30	1.35	96.30
		5240	1.30	1.35	96.30
		5260	1.30	1.34	97.01
		5300	1.30	1.35	96.30
		5320	1.30	1.34	97.01
		5500	1.30	1.34	97.01
		5580	1.30	1.34	97.01
		5700	1.30	1.34	97.01
		5745	1.30	1.34	97.01
		5785	1.30	1.34	97.01
		5825	1.30	1.35	96.30
11N40SISO	Ant1	5190	0.65	0.69	94.20
		5230	0.65	0.69	94.20
		5270	0.65	0.69	94.20
		5310	0.65	0.69	94.20
		5510	0.65	0.69	94.20

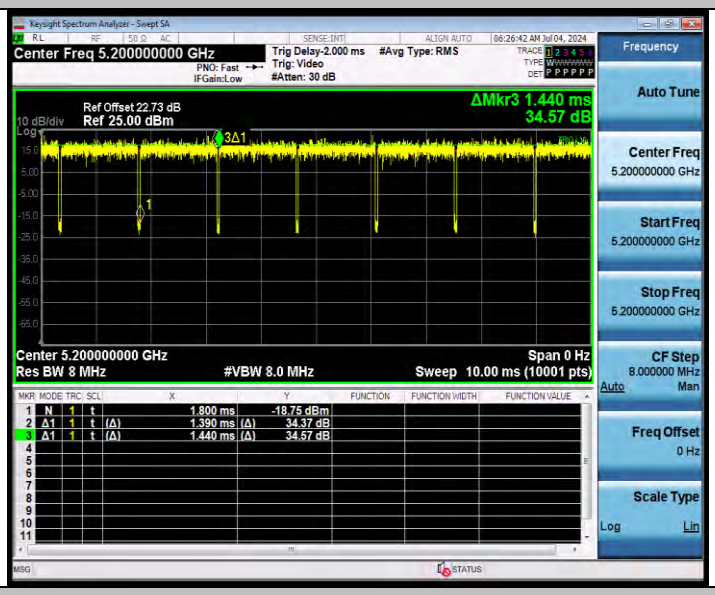
		5550	0.65	0.69	94.20
		5670	0.65	0.70	92.86
		5755	0.65	0.69	94.20
		5795	0.65	0.69	94.20
11AC80SISO	Ant1	5210	0.33	0.37	89.19
		5290	0.32	0.37	86.49
		5530	0.32	0.37	86.49
		5610	0.32	0.36	88.89
		5775	0.32	0.36	88.89

TEST GRAPHS

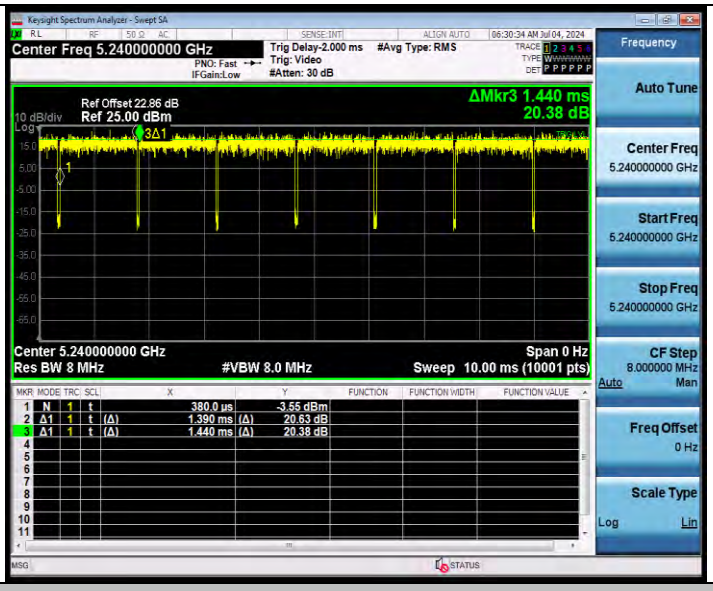
11A_Ant1_5180



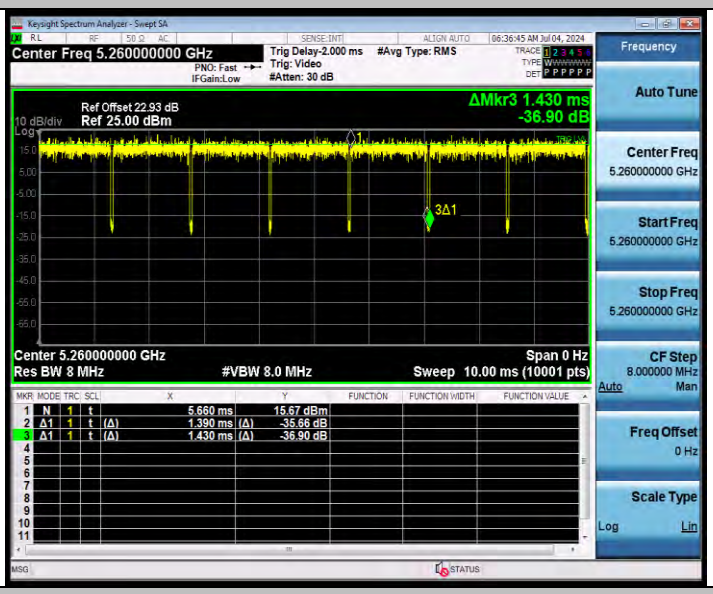
11A_Ant1_5200



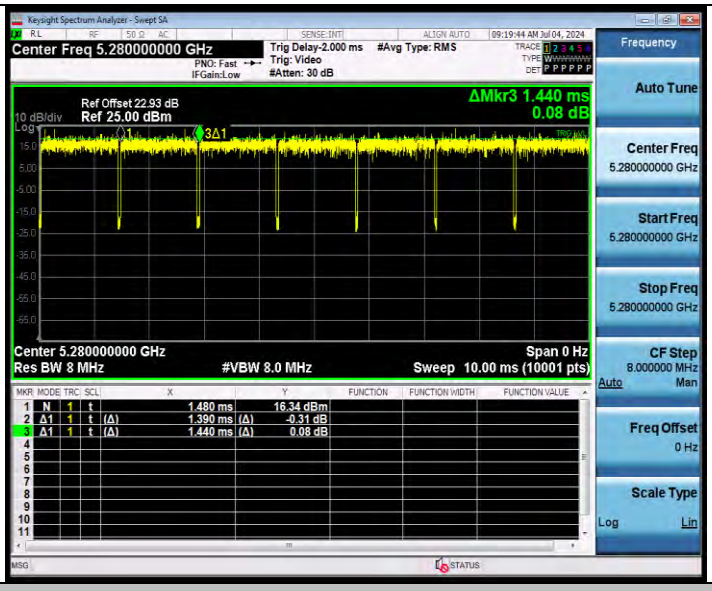
11A_Ant1_5240



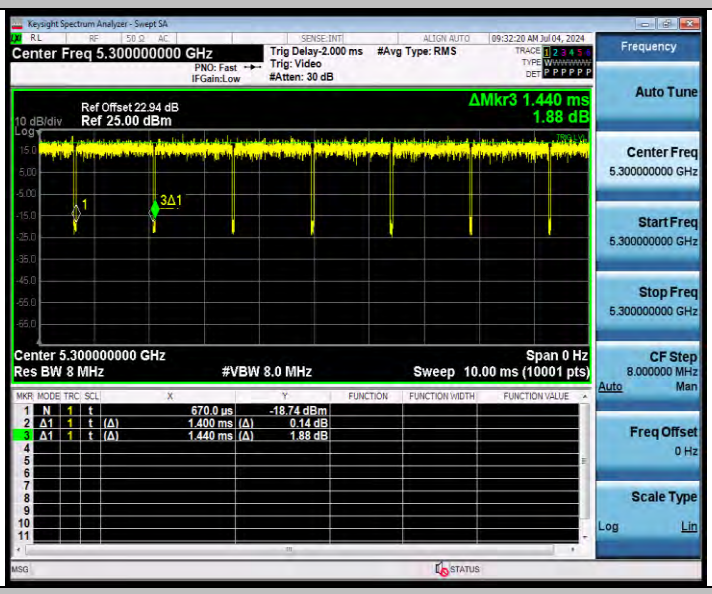
11A_Ant1_5260



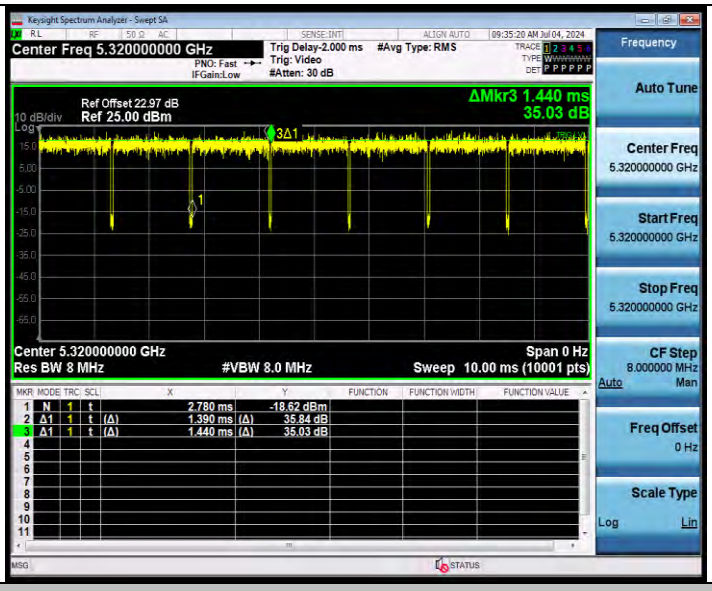
11A_Ant1_5280



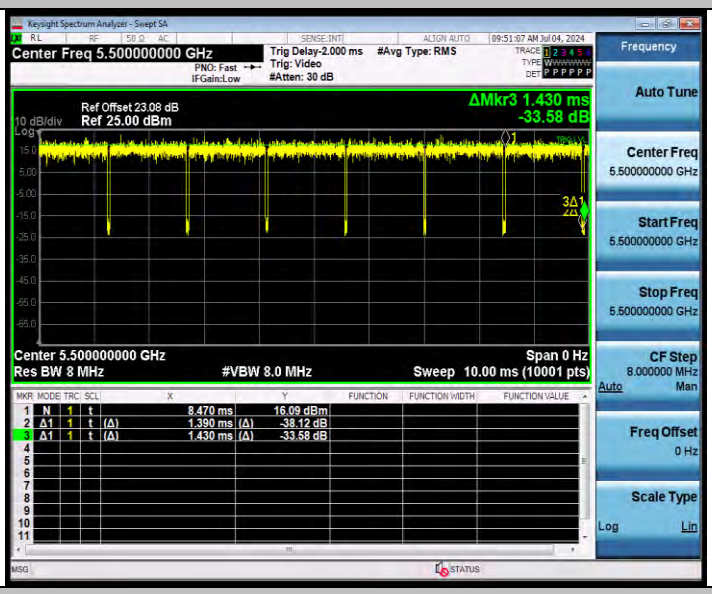
11A_Ant1_5300



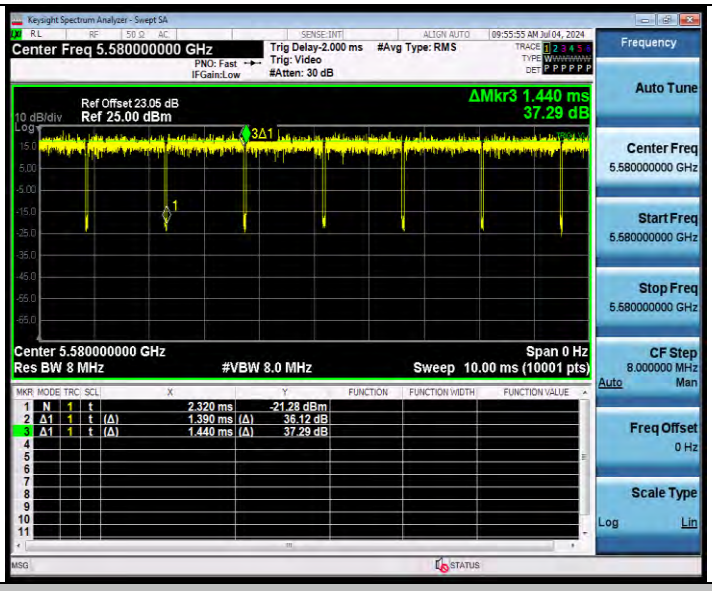
11A_Ant1_5320



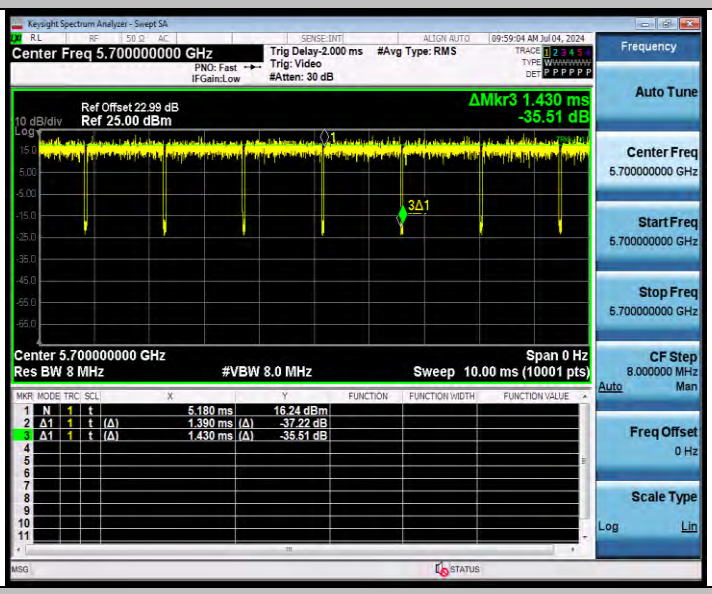
11A_Ant1_5500



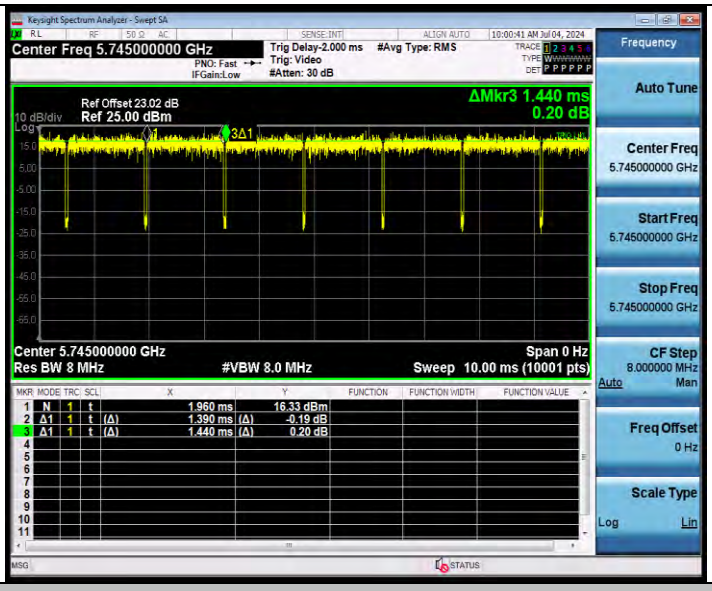
11A_Ant1_5580



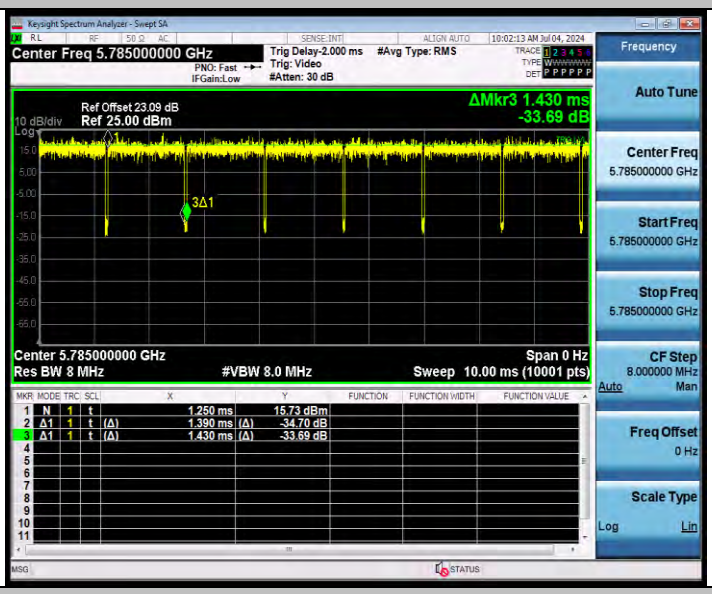
11A_Ant1_5700



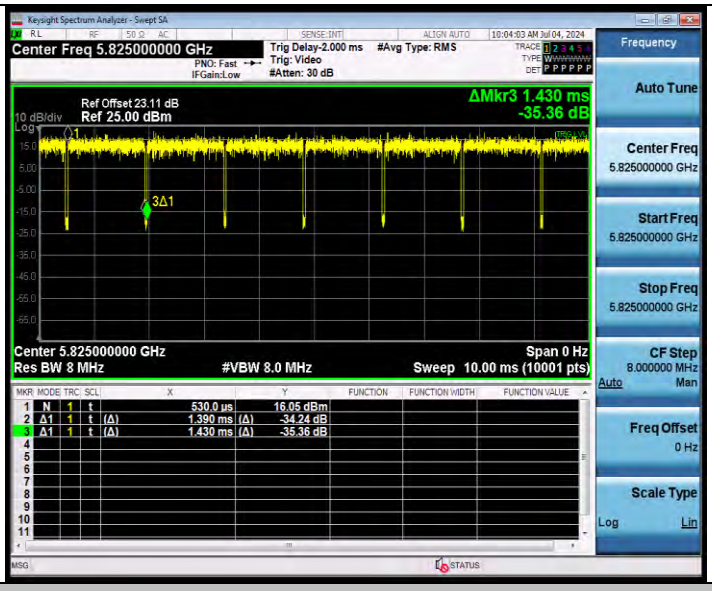
11A_Ant1_5745



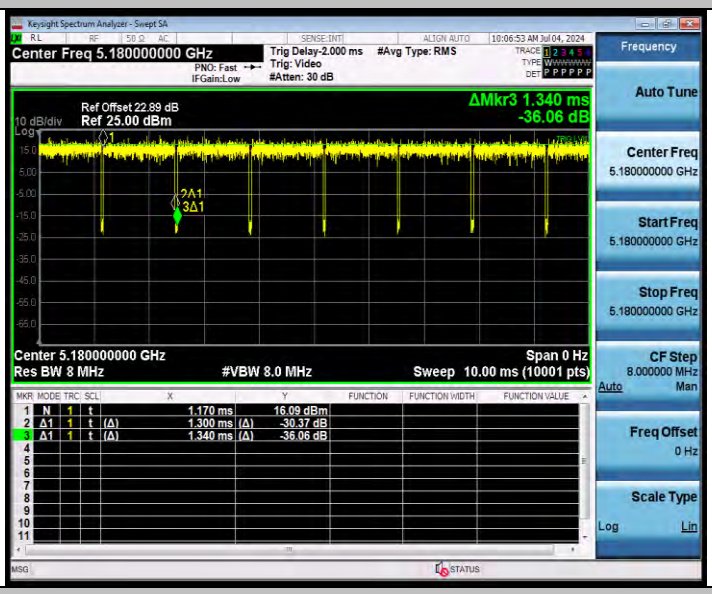
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200