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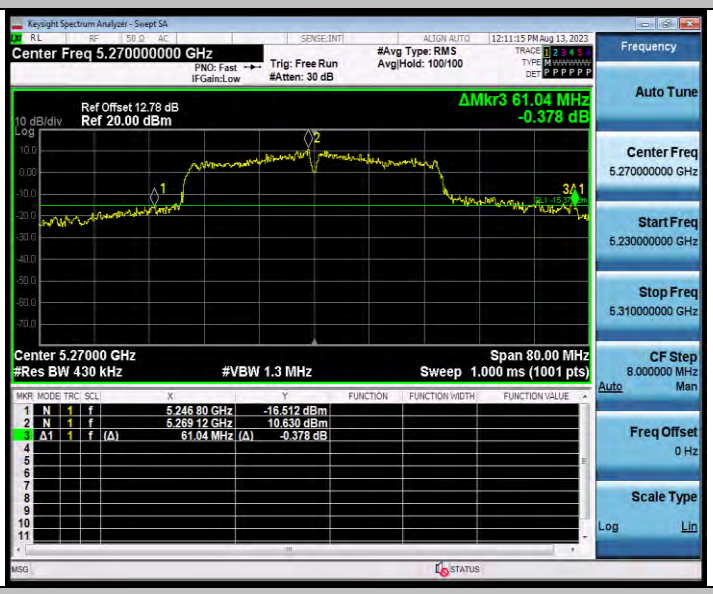
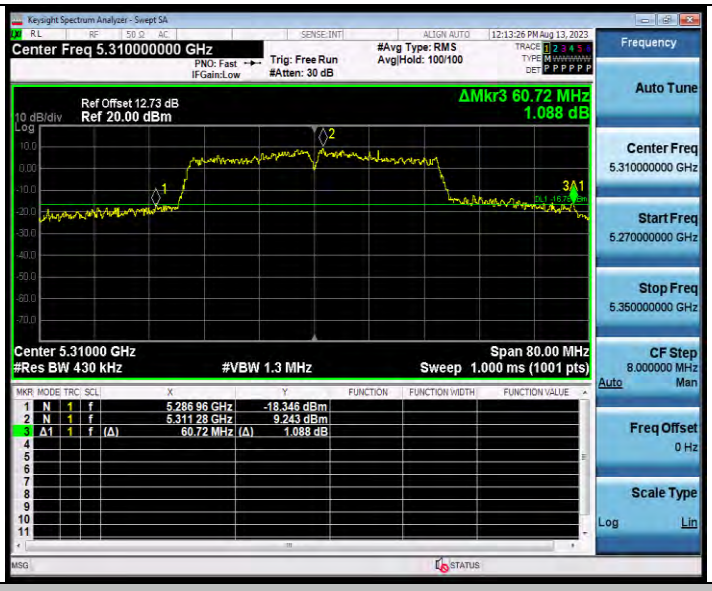


11AC40SISO_Ant1_5310



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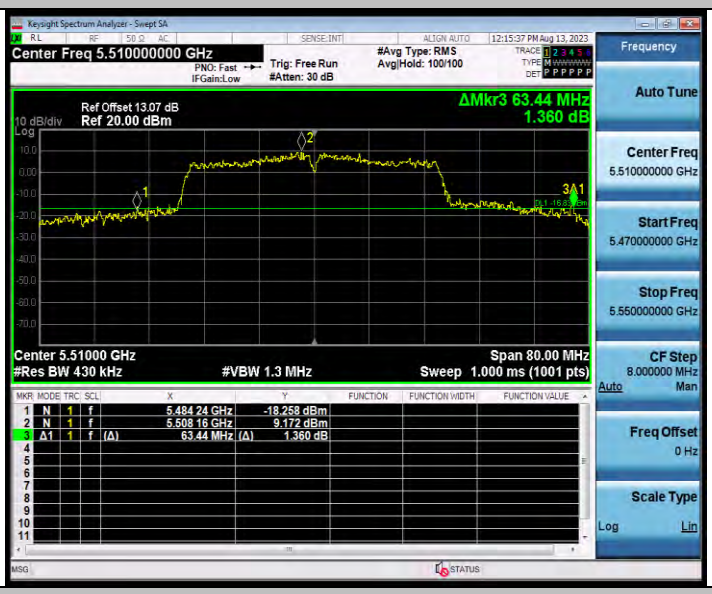

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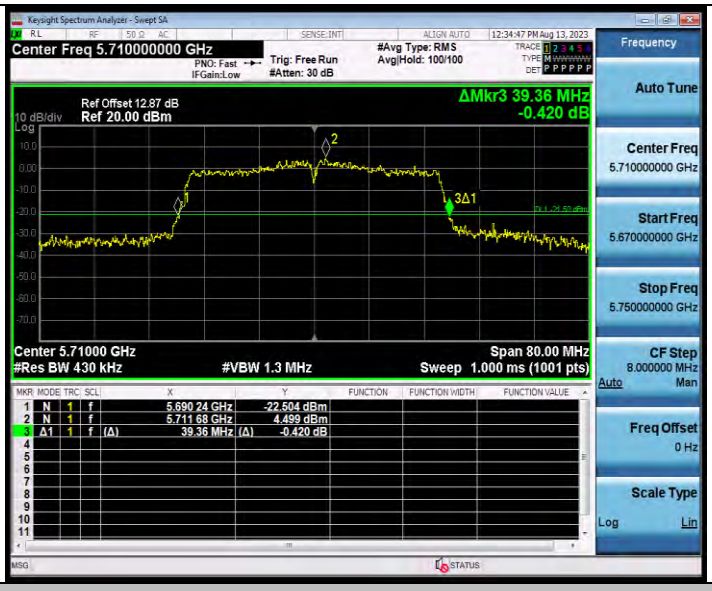
11AC40SISO_Ant1_5670

11AC40SISO_Ant1_5710



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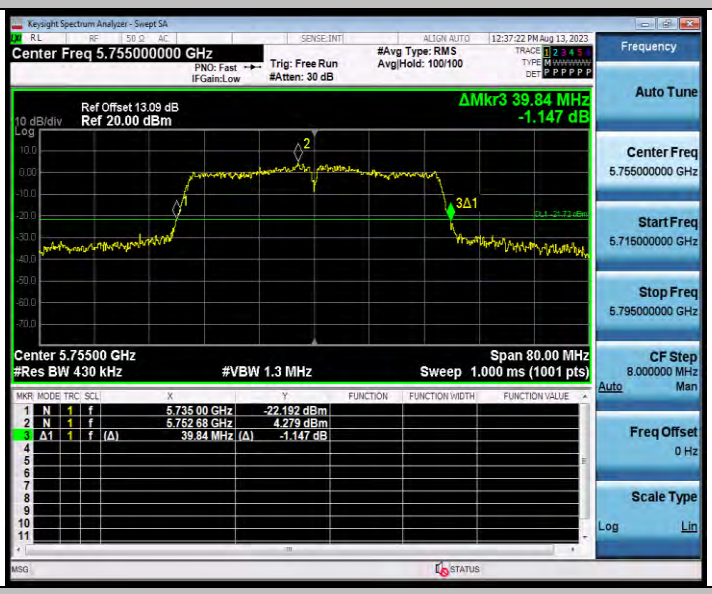

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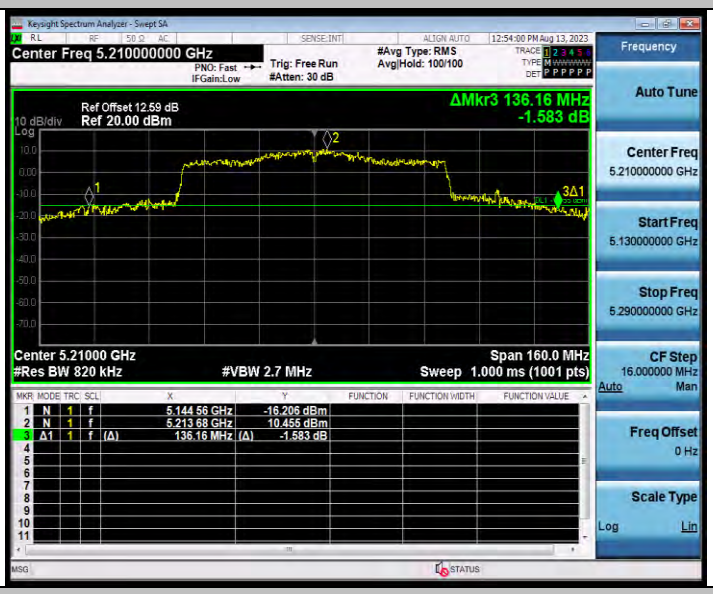
11AC80SISO_Ant1_5210



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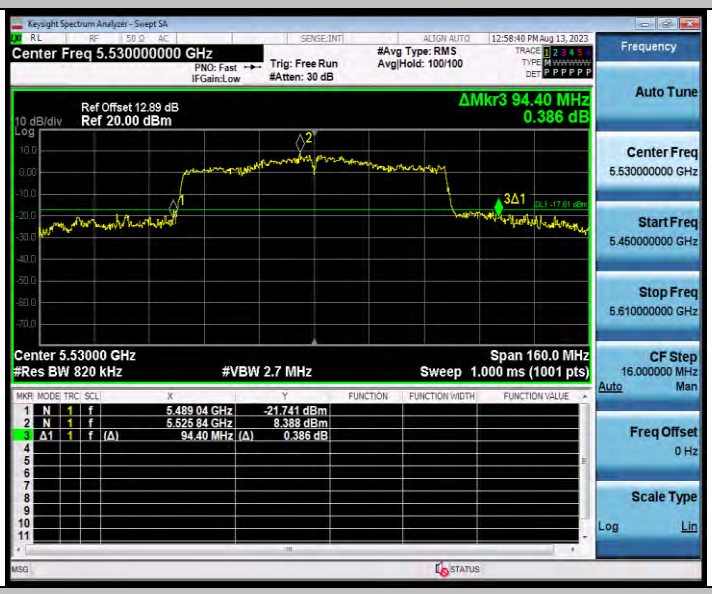
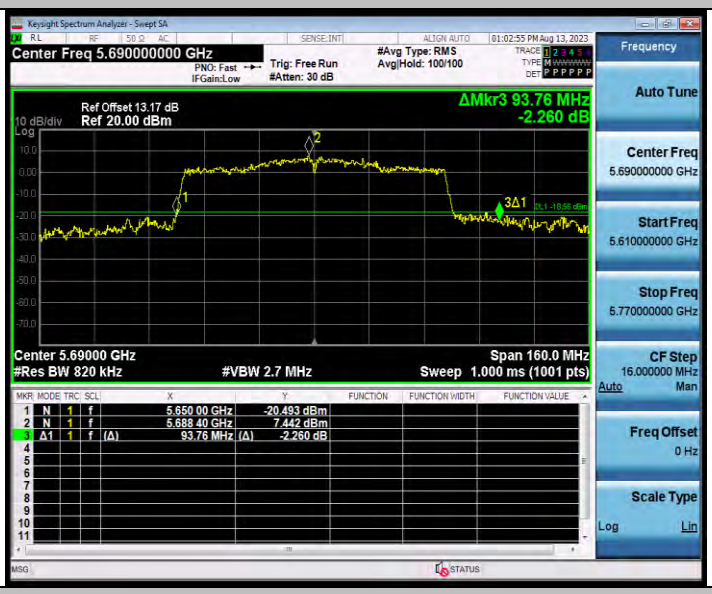
11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610

11AC80SISO_Ant1_5690



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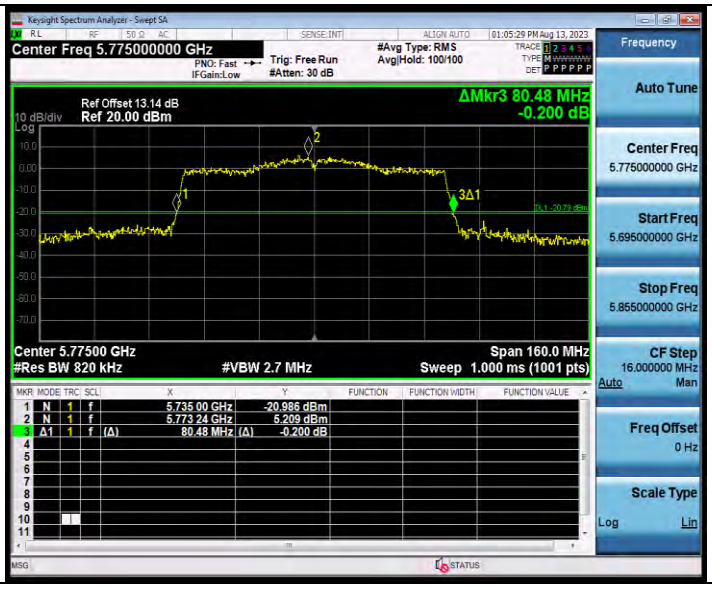

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
01:05:29 PM Aug 13, 2023
Ref Offset 13.14 dB
10 dB/div
Ref 20.00 dBm
ΔMkr3 80.48 MHz
-0.200 dB
Center 5.77500 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 160.0 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.735 00 GHz -20.986 dBm
2 N 1 f 5.773 24 GHz 5.209 dBm
3 Δ1 1 f (Δ) 80.48 MHz (Δ) -0.200 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

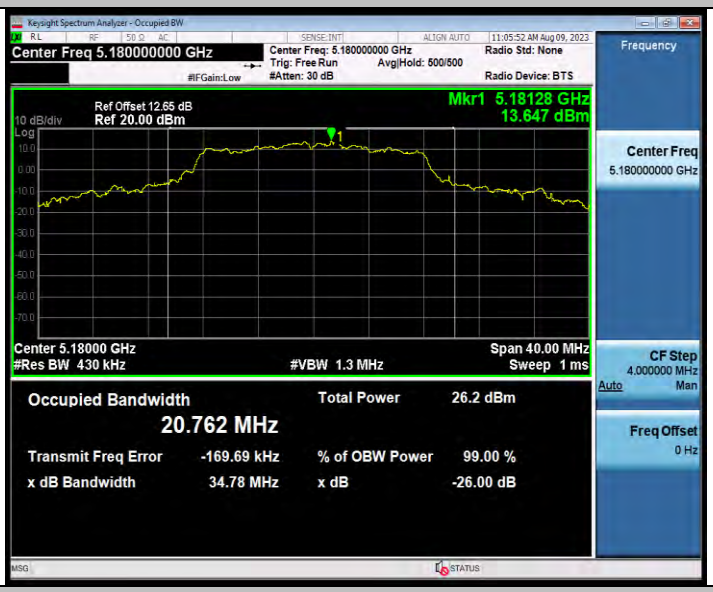
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.762	5169.4493	5190.2113	---	---
		5200	20.359	5190.6280	5210.9870	---	---
		5240	18.717	5230.7711	5249.4881	---	---
		5260	24.262	5248.1257	5272.3877	---	---
		5300	19.443	5290.5607	5310.0037	---	---
		5320	23.497	5308.7284	5332.2254	---	---
		5500	18.987	5490.6677	5509.6547	---	---
		5580	18.800	5570.7086	5589.5086	---	---
		5700	18.504	5690.7727	5709.2767	---	---
		5720	16.972	5711.4621	5728.4341	---	---
		5720_UNII-2C	13.538	5711.4621	5725	---	---
		5720_UNII-3	3.434	5725	5728.4341	---	---
		5745	16.671	5736.6197	5753.2907	---	---
		5785	16.721	5776.5603	5793.2813	---	---
		5825	16.763	5816.6492	5833.4122	---	---
11N20SISO	Ant1	5180	19.536	5170.0165	5189.5525	---	---
		5200	20.115	5190.3900	5210.5050	---	---
		5240	19.046	5230.5507	5249.5967	---	---
		5260	19.603	5250.1482	5269.7512	---	---
		5300	24.363	5288.3931	5312.7561	---	---
		5320	21.724	5309.5219	5331.2459	---	---
		5500	18.507	5490.7261	5509.2331	---	---
		5580	19.832	5570.4900	5590.3220	---	---
		5700	19.321	5690.4706	5709.7916	---	---
		5720	18.487	5710.7173	5729.2043	---	---
		5720_UNII-2C	14.283	5710.7173	5725	---	---
		5720_UNII-3	4.204	5725	5729.2043	---	---
		5745	18.071	5735.9014	5753.9724	---	---
		5785	18.042	5775.9145	5793.9565	---	---
		5825	18.042	5815.9266	5833.9686	---	---
11N40SISO	Ant1	5190	40.092	5171.4268	5211.5188	---	---

		5230	37.474	5211.5054	5248.9794	---	---
		5270	41.391	5251.6359	5293.0269	---	---
		5310	36.951	5291.6352	5328.5862	---	---
		5510	36.878	5491.7345	5528.6125	---	---
		5550	36.794	5531.7082	5568.5022	---	---
		5670	36.534	5651.7729	5688.3069	---	---
		5710	36.875	5691.6812	5728.5562	---	---
		5710_UNII-2C	33.319	5691.6812	5725	---	---
		5710_UNII-3	3.556	5725	5728.5562	---	---
		5755	36.462	5736.8372	5773.2992	---	---
		5795	36.450	5776.7551	5813.2051	---	---
11AC20SISO	Ant1	5180	18.617	5170.6401	5189.2571	---	---
		5200	18.536	5190.7762	5209.3122	---	---
		5240	18.390	5230.7686	5249.1586	---	---
		5260	18.572	5250.7400	5269.3120	---	---
		5300	18.472	5290.6743	5309.1463	---	---
		5320	18.085	5310.8675	5328.9525	---	---
		5500	18.300	5490.7965	5509.0965	---	---
		5580	18.401	5570.8082	5589.2092	---	---
		5700	18.236	5690.8187	5709.0547	---	---
		5720	18.212	5710.7986	5729.0106	---	---
		5720_UNII-2C	14.201	5710.7986	5725	---	---
		5720_UNII-3	4.011	5725	5729.0106	---	---
		5745	18.108	5735.8214	5753.9294	---	---
		5785	18.096	5775.8251	5793.9211	---	---
		5825	18.108	5815.8685	5833.9765	---	---
11AC40SISO	Ant1	5190	38.510	5171.2912	5209.8012	---	---
		5230	37.891	5211.2988	5249.1898	---	---
		5270	39.899	5251.3997	5291.2987	---	---
		5310	37.644	5291.3997	5329.0437	---	---
		5510	37.619	5491.4415	5529.0605	---	---
		5550	36.701	5531.6094	5568.3104	---	---
		5670	36.686	5651.6171	5688.3031	---	---
		5710	36.505	5691.6720	5728.1770	---	---
		5710_UNII-2C	33.328	5691.6720	5725	---	---

		5710_UNII-3	3.177	5725	5728.1770	---	---
		5755	36.660	5736.5694	5773.2294	---	---
		5795	36.656	5776.5605	5813.2165	---	---
11AC80SISO	Ant1	5210	76.998	5171.9986	5248.9966	---	---
		5290	84.402	5251.8736	5336.2756	---	---
		5530	76.135	5492.1914	5568.3264	---	---
		5610	75.935	5572.4029	5648.3379	---	---
		5690	75.880	5652.3066	5728.1866	---	---
		5690_UNII-2C	72.693	5652.3066	5725	---	---
		5690_UNII-3	3.187	5725	5728.1866	---	---
		5775	75.479	5737.3321	5812.8111	---	---

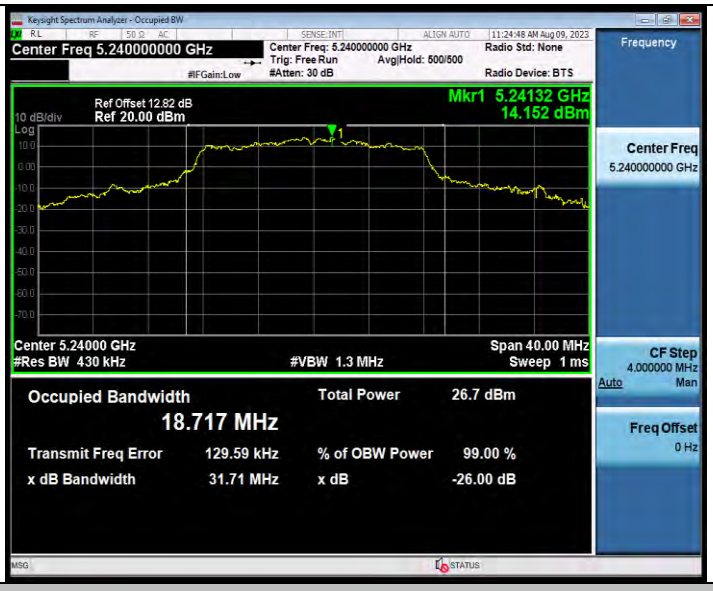
TEST GRAPHS

11A_Ant1_5180

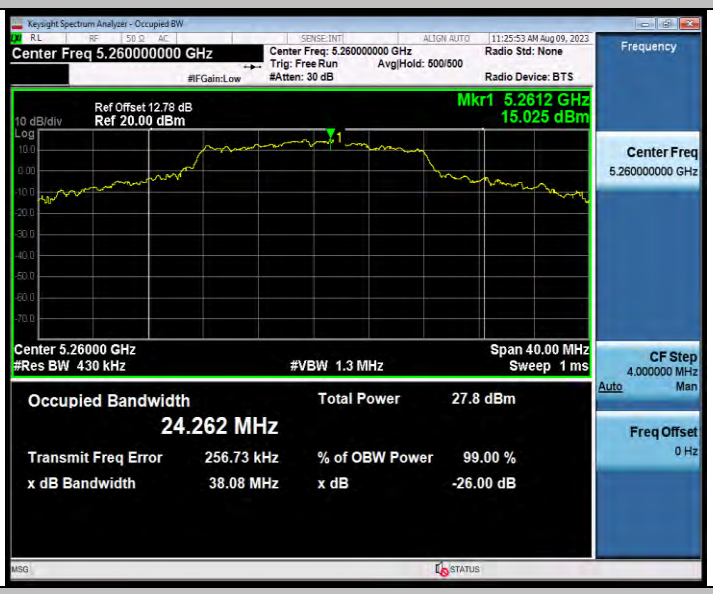


11A_Ant1_5200

11A_Ant1_5240



11A_Ant1_5260



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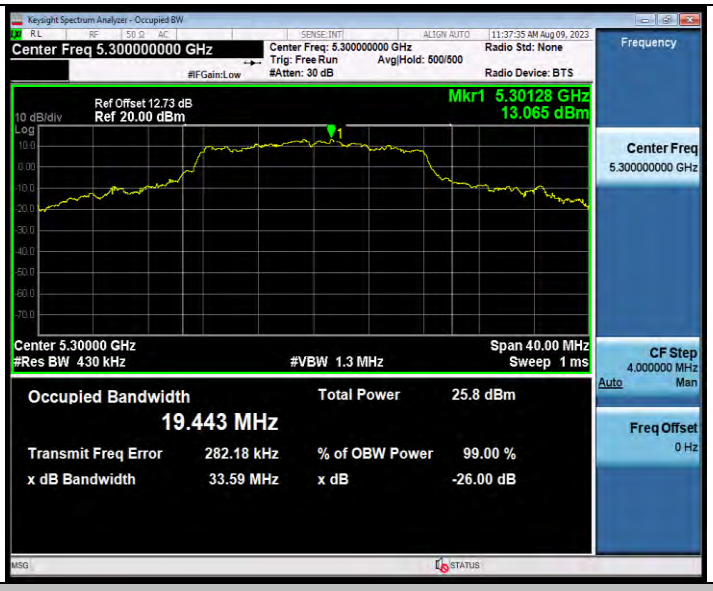
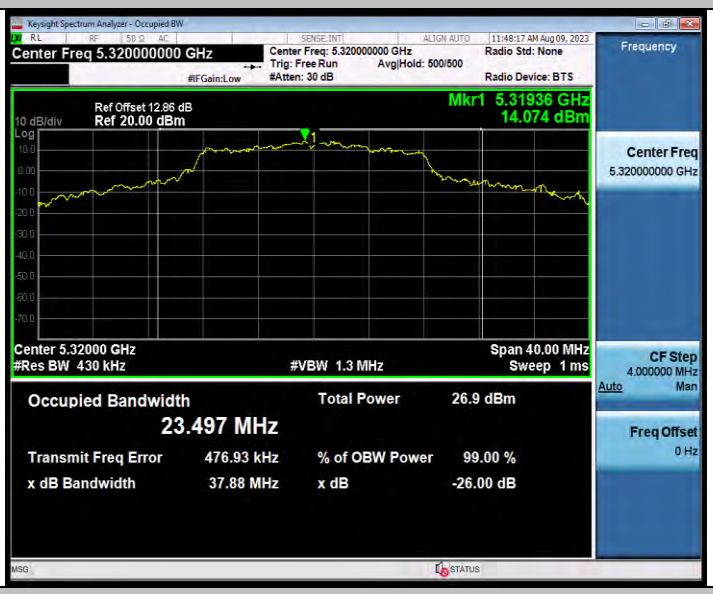
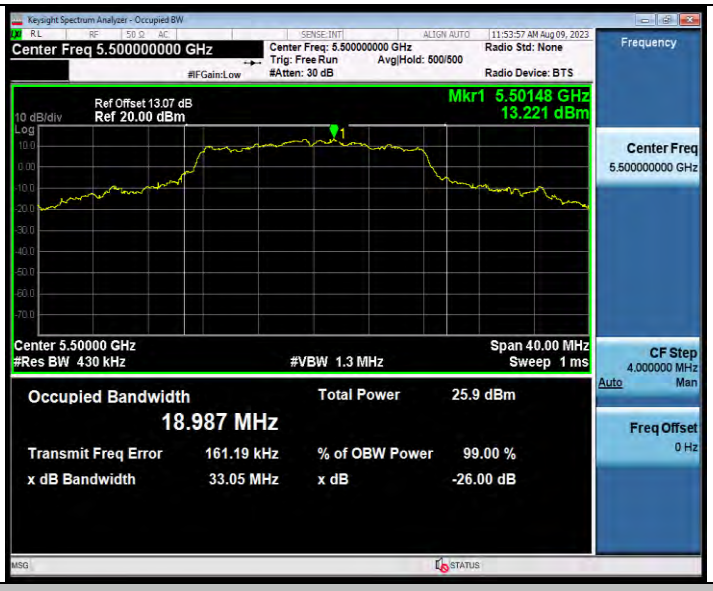


11A_Ant1_5320



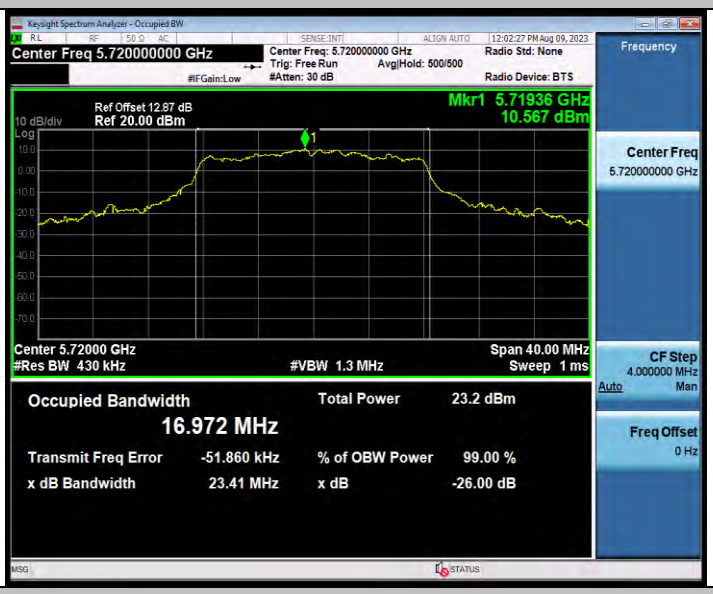
11A_Ant1_5500



11A_Ant1_5580

11A_Ant1_5700

11A_Ant1_5720



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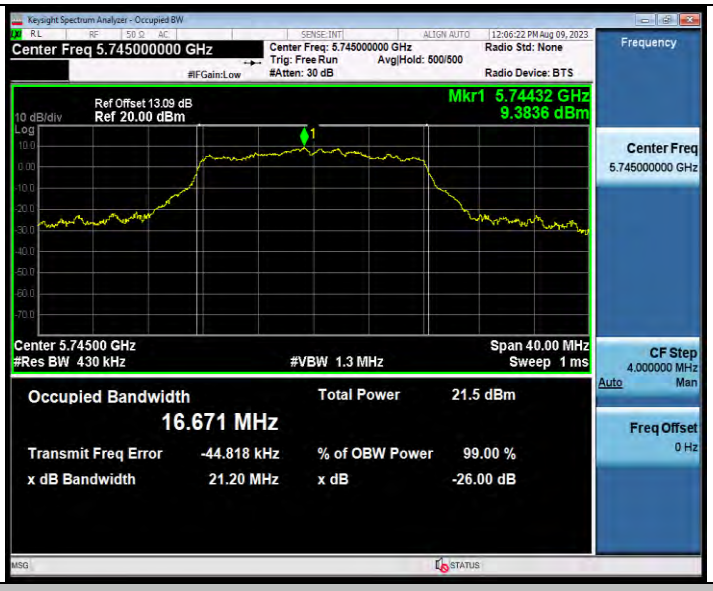

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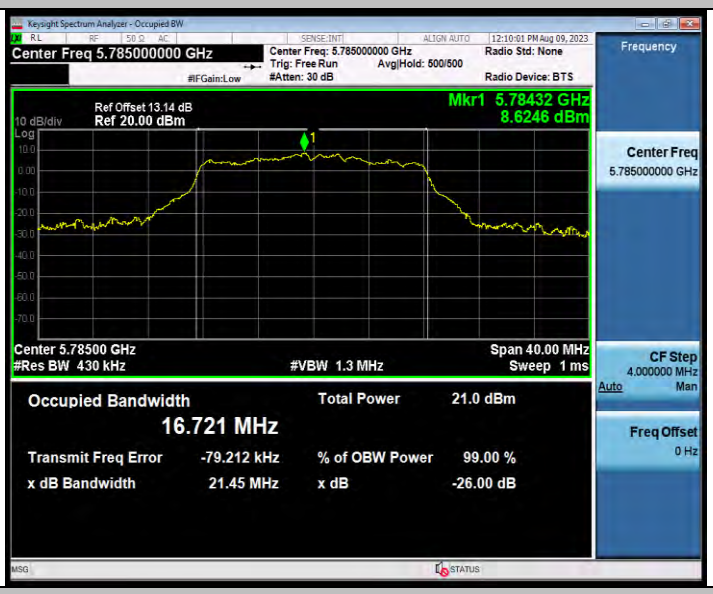
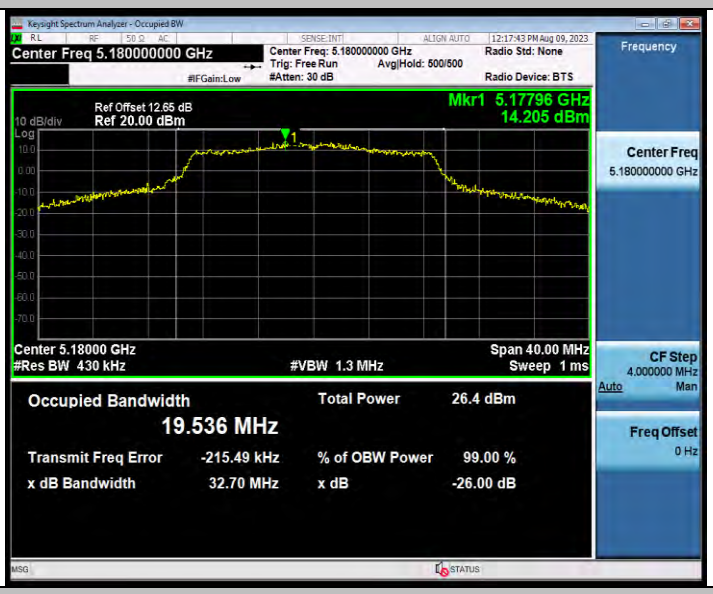


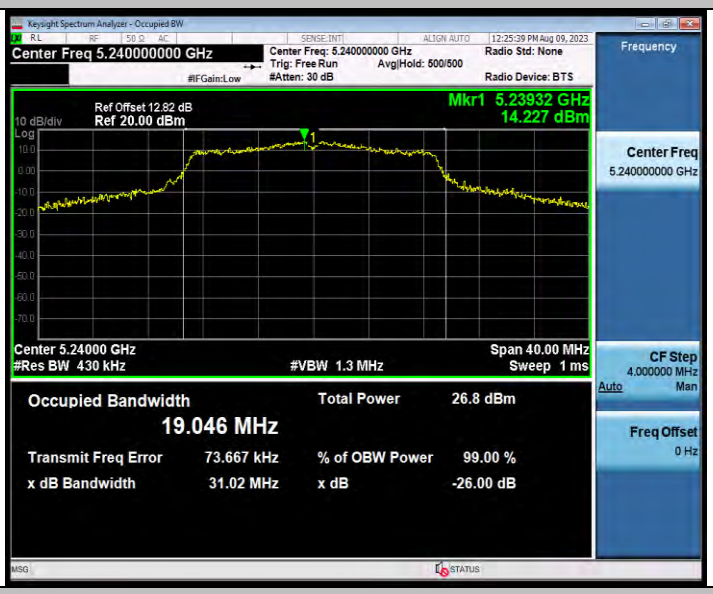
11A_Ant1_5825

11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

11N20SISO_Ant1_5240



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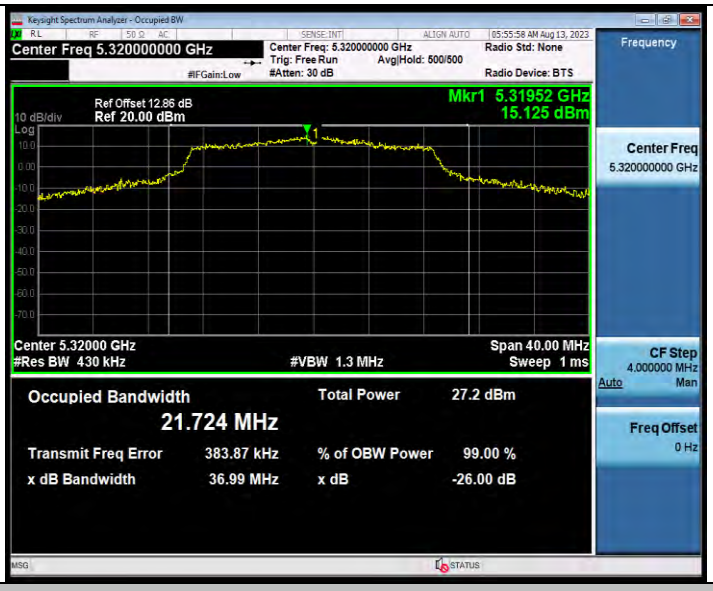
11N20SISO_Ant1_5300

11N20SISO_Ant1_5320



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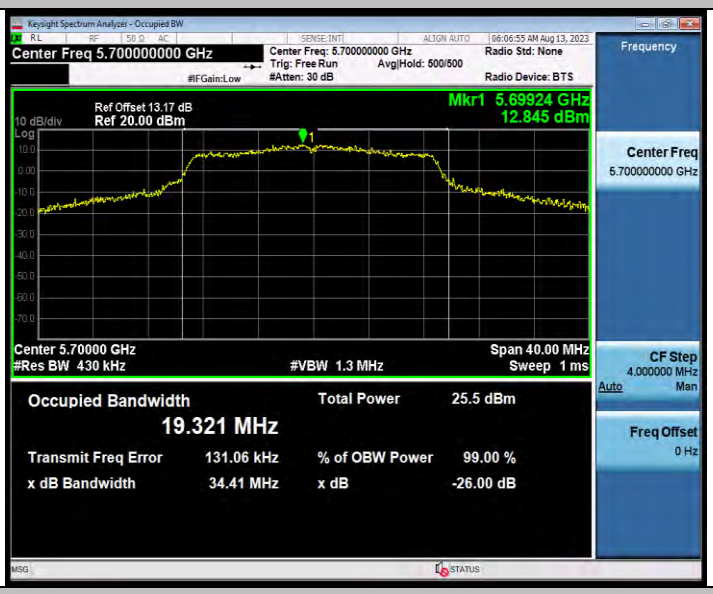
11N20SISO_Ant1_5580

11N20SISO_Ant1_5700



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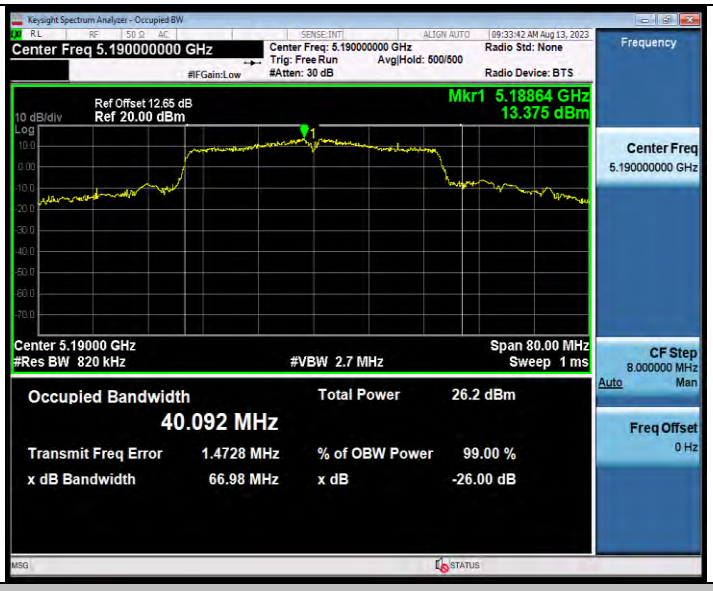
11N20SISO_Ant1_5745

11N20SISO_Ant1_5785

11N20SISO_Ant1_5825

11N40SISO_Ant1_5190



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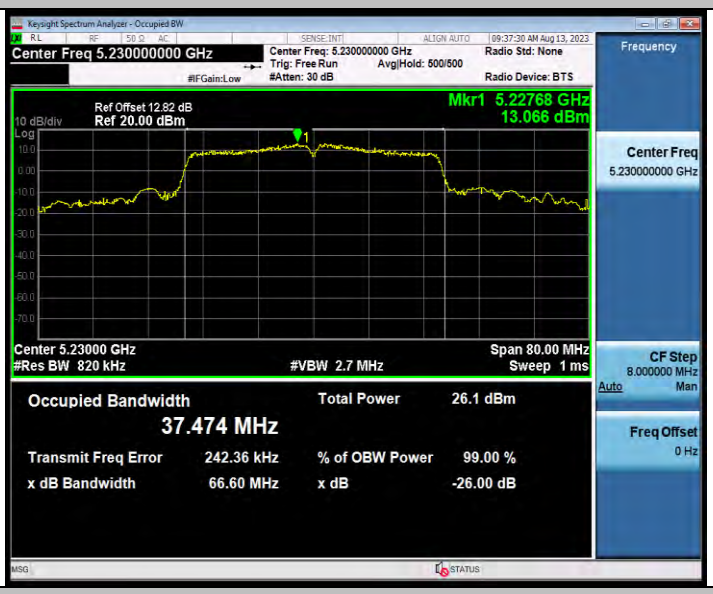

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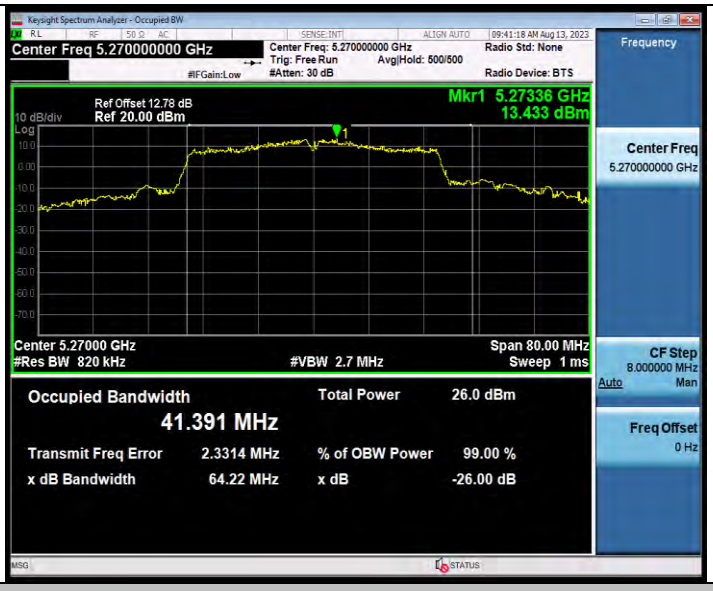
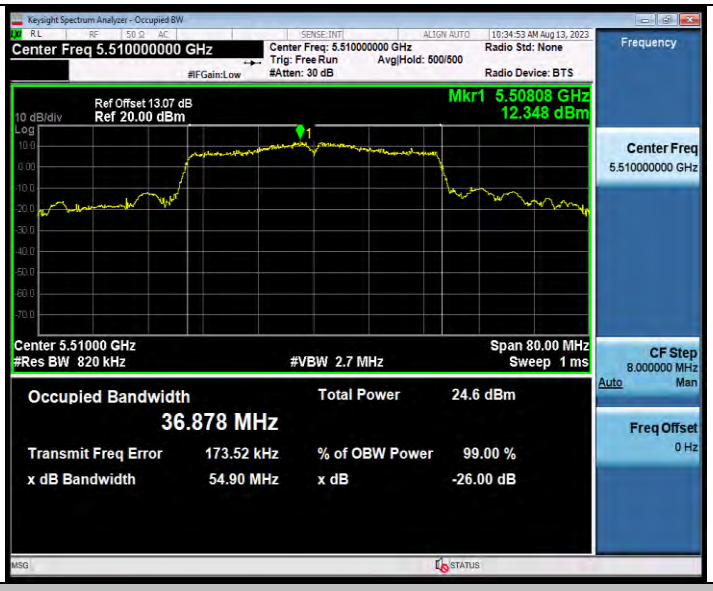
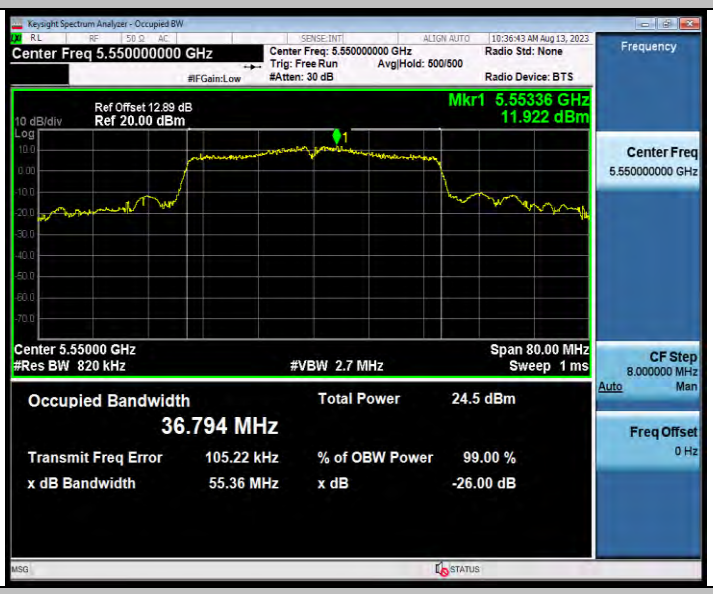


11N40SISO_Ant1_5310

11N40SISO_Ant1_5510



11N40SISO_Ant1_5550



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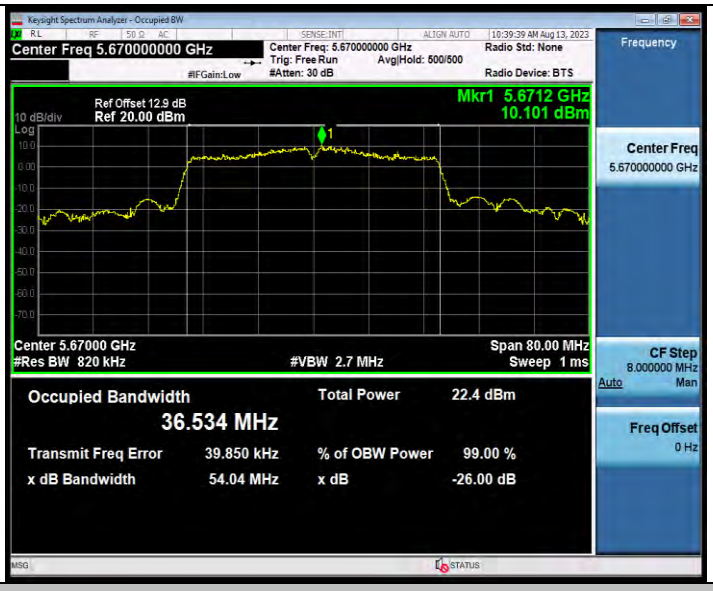
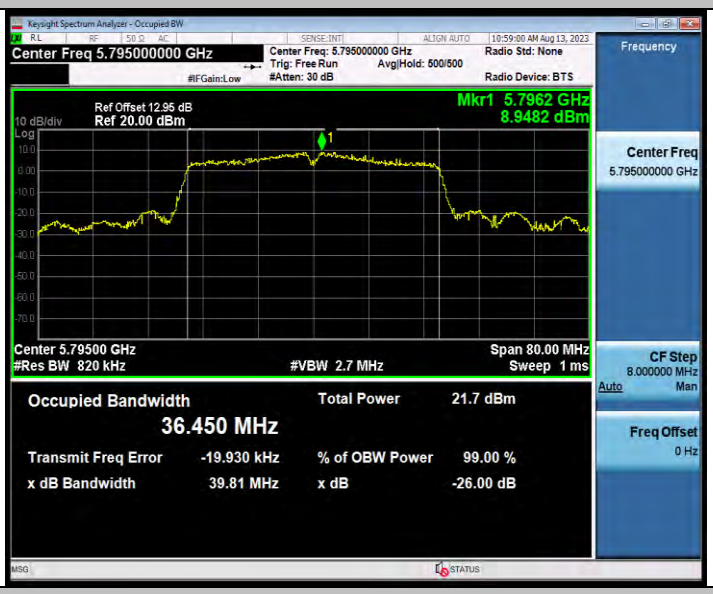


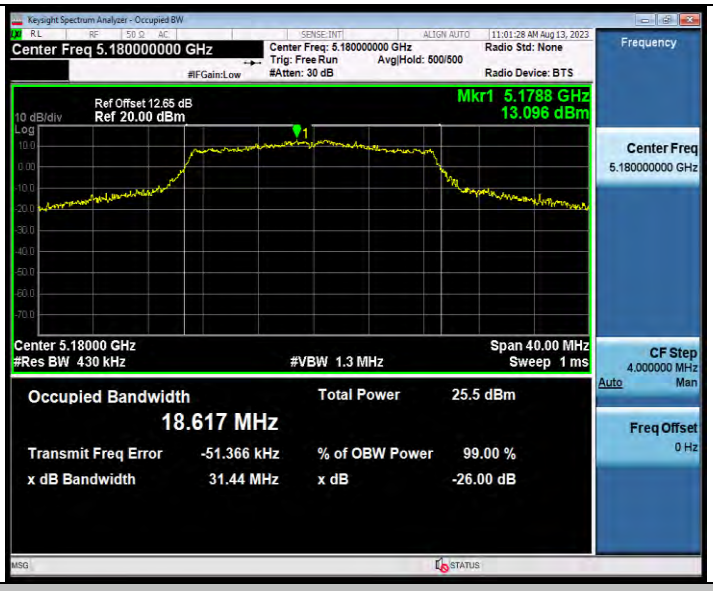
11N40SISO_Ant1_5710

11N40SISO_Ant1_5755

11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

11AC20SISO_Ant1_5260

11AC20SISO_Ant1_5300

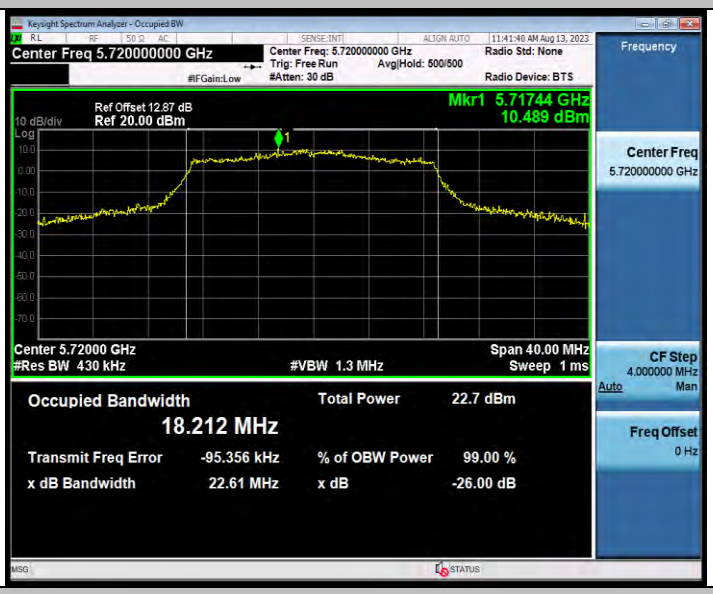
11AC20SISO_Ant1_5320

11AC20SISO_Ant1_5500

11AC20SISO_Ant1_5580

11AC20SISO_Ant1_5700

11AC20SISO_Ant1_5720



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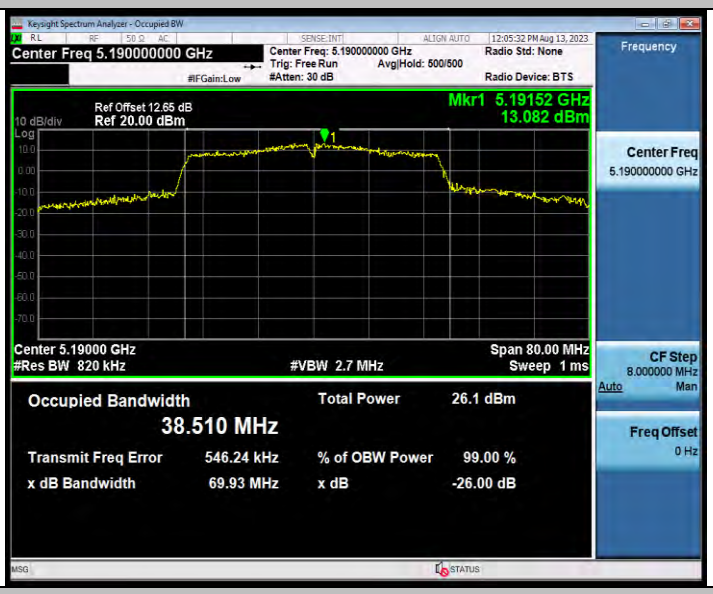
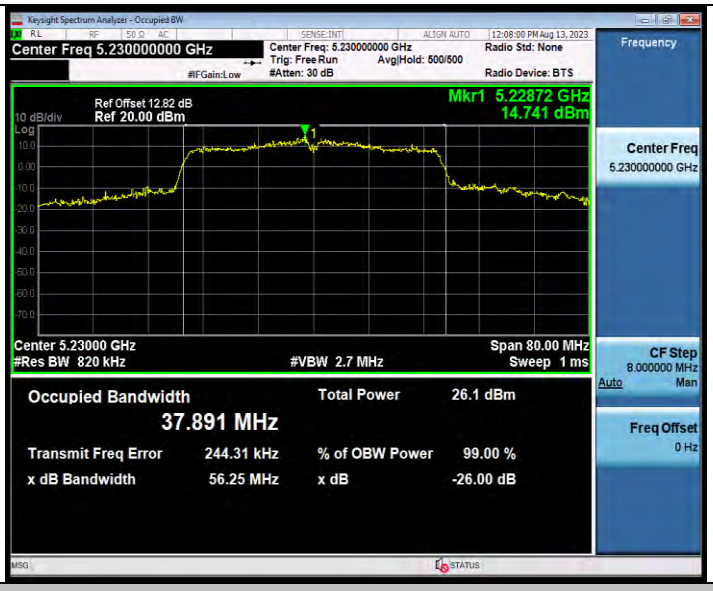
11AC20SISO_Ant1_5785

11AC20SISO_Ant1_5825

11AC40SISO_Ant1_5190



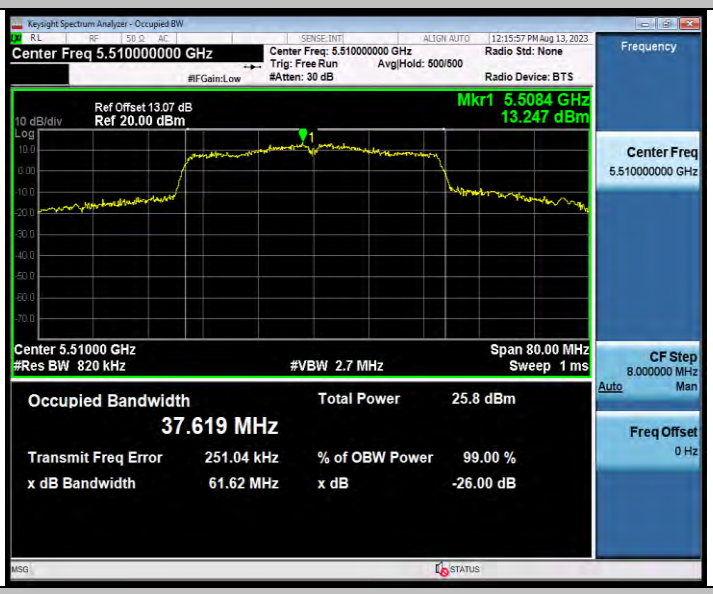
11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5270

11AC40SISO_Ant1_5310

11AC40SISO_Ant1_5510



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11AC40SISO_Ant1_5670

11AC40SISO_Ant1_5710

11AC40SISO_Ant1_5755

11AC40SISO_Ant1_5795

11AC80SISO_Ant1_5210

11AC80SISO_Ant1_5290

11AC80SISO_Ant1_5530

11AC80SISO_Ant1_5610

11AC80SISO_Ant1_5690

11AC80SISO_Ant1_5775

Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.775000000 GHz
Center Freq: 5.775000000 GHz
Trig: Free Run
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
01:06:03 PM Aug 13, 2023
Frequency
Ref Offset 13.14 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.77276 GHz
9.3312 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
75.479 MHz
Total Power
22.0 dBm
Transmit Freq Error
71.604 kHz
% of OBW Power
99.00 %
x dB Bandwidth
81.92 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

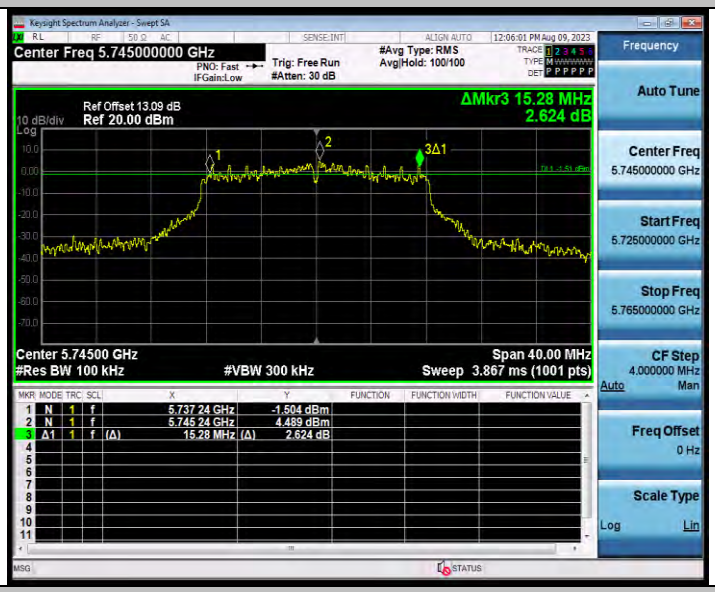
MIN EMISSION BANDWIDTH

TEST RESULT B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.280	5737.240	5752.520	0.5	PASS
		5785	15.520	5777.120	5792.640	0.5	PASS
		5825	15.640	5817.200	5832.840	0.5	PASS
11N20SISO	Ant1	5745	16.960	5736.160	5753.120	0.5	PASS
		5785	16.480	5776.280	5792.760	0.5	PASS
		5825	16.600	5816.800	5833.400	0.5	PASS
11AC20SISO	Ant1	5745	15.400	5737.360	5752.760	0.5	PASS
		5785	17.160	5776.200	5793.360	0.5	PASS
		5825	17.280	5816.160	5833.440	0.5	PASS
11AC40SISO	Ant1	5755	35.760	5737.320	5773.080	0.5	PASS
		5795	35.760	5776.760	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

TEST GRAPHS B4

11A_Ant1_5745



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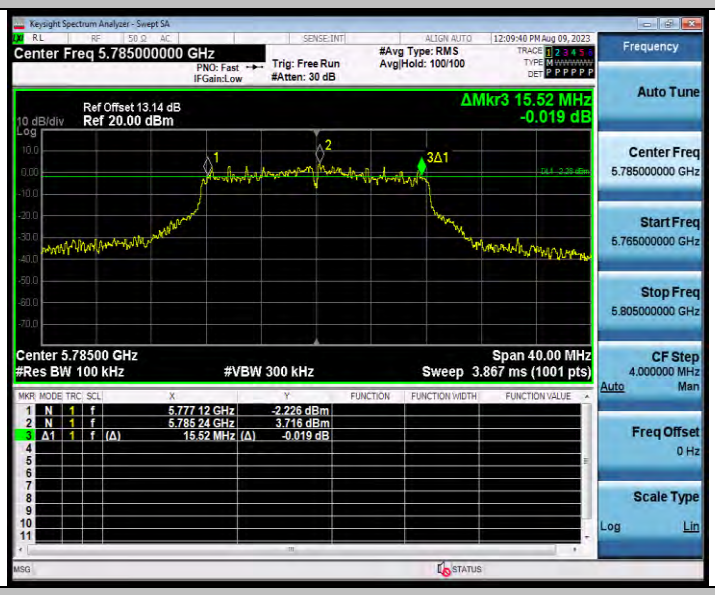

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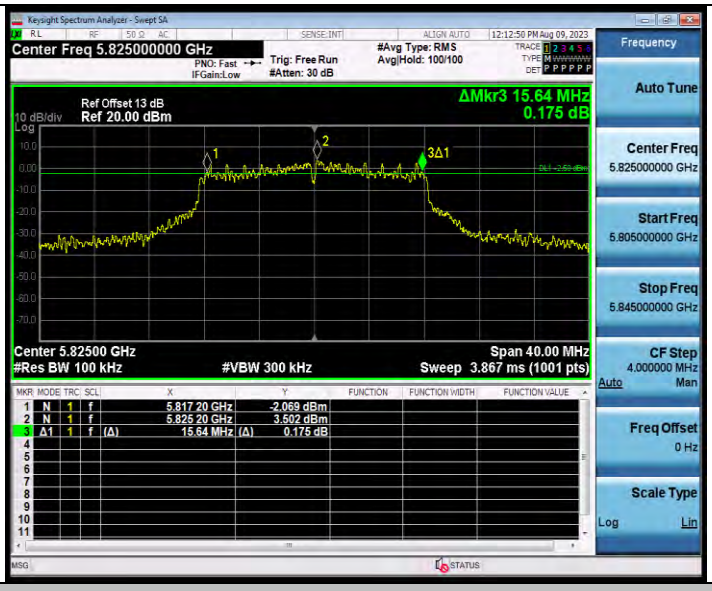

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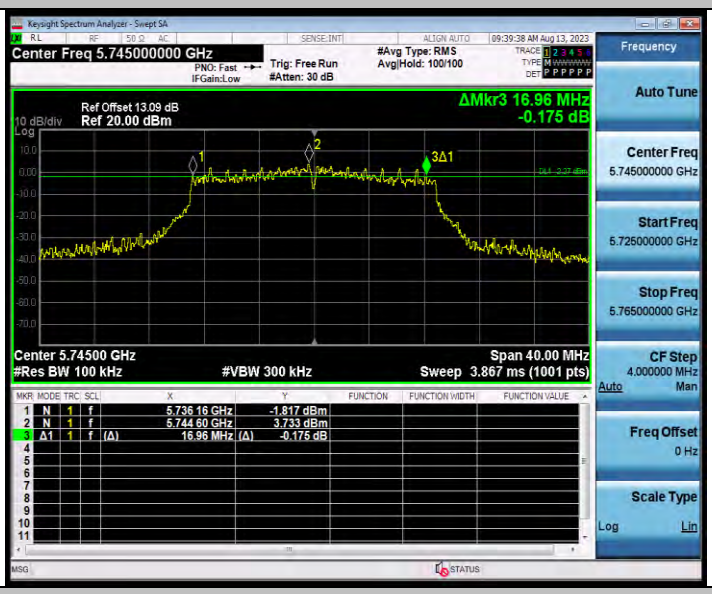

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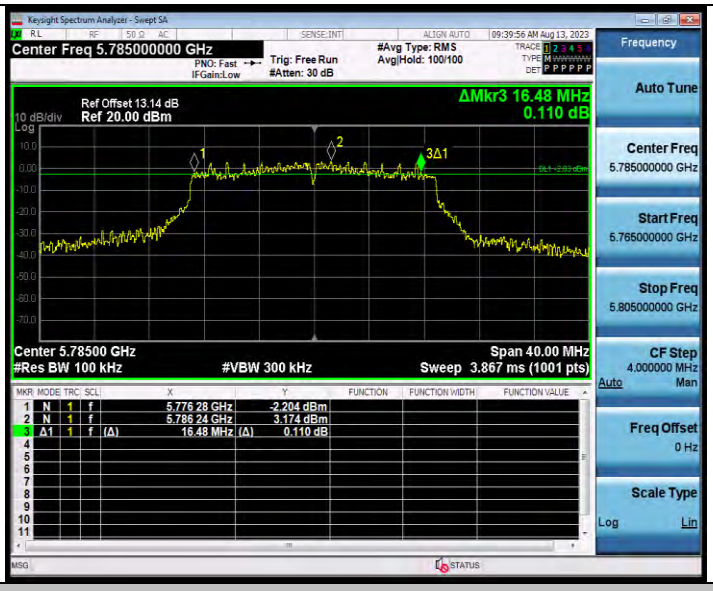

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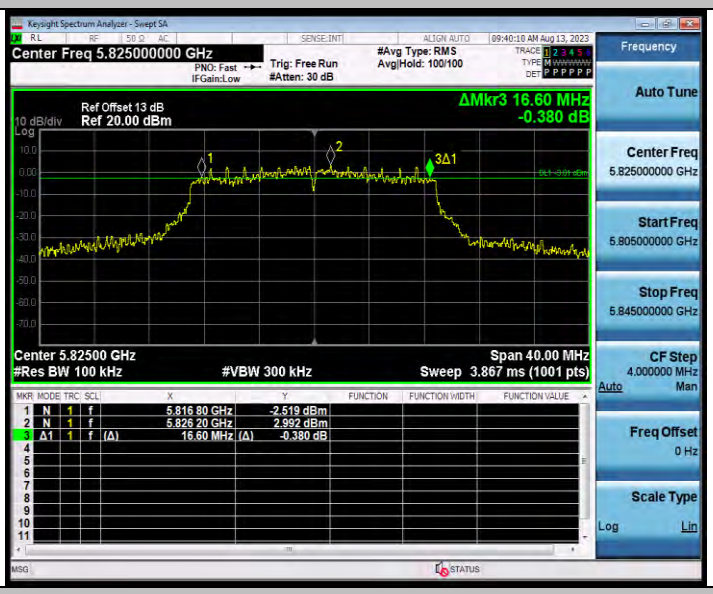

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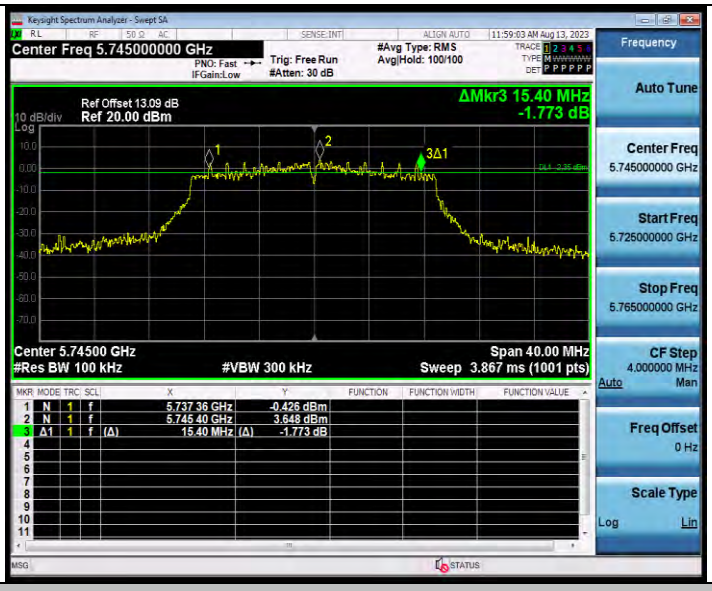

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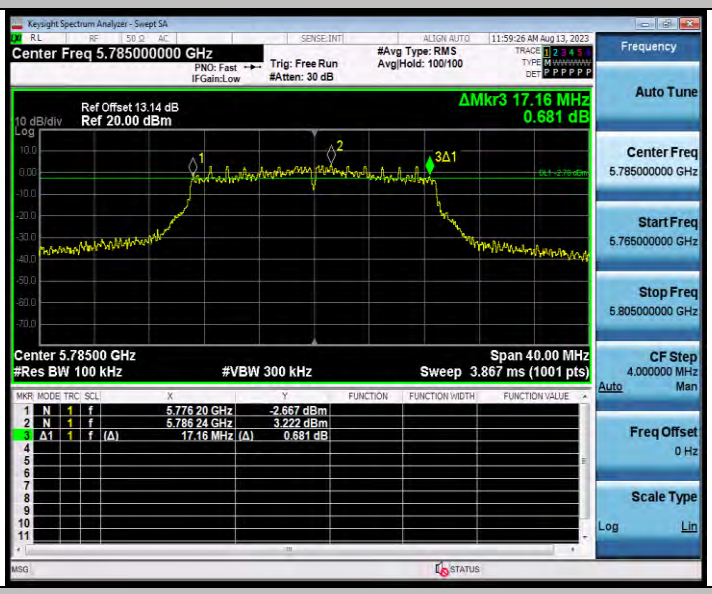

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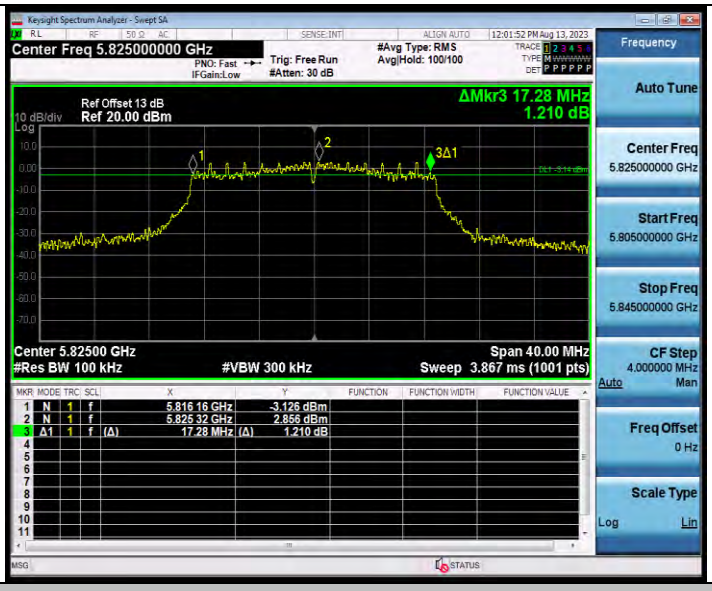
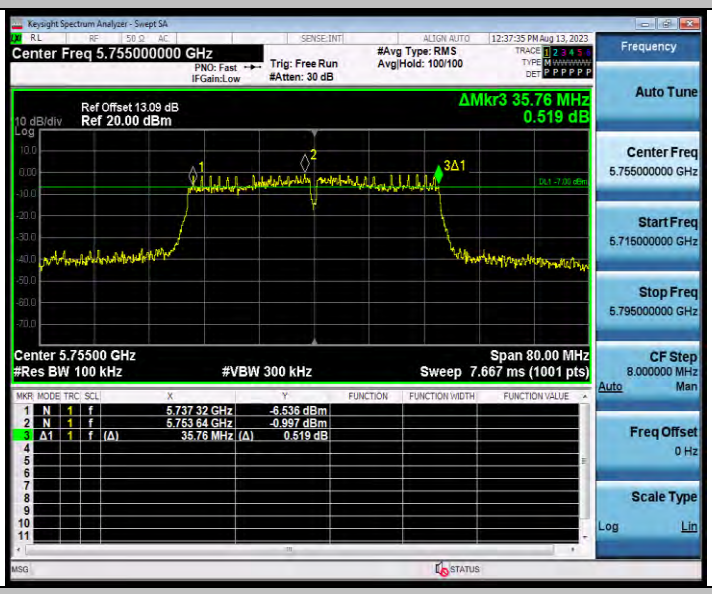


11AC40SISO_Ant1_5755



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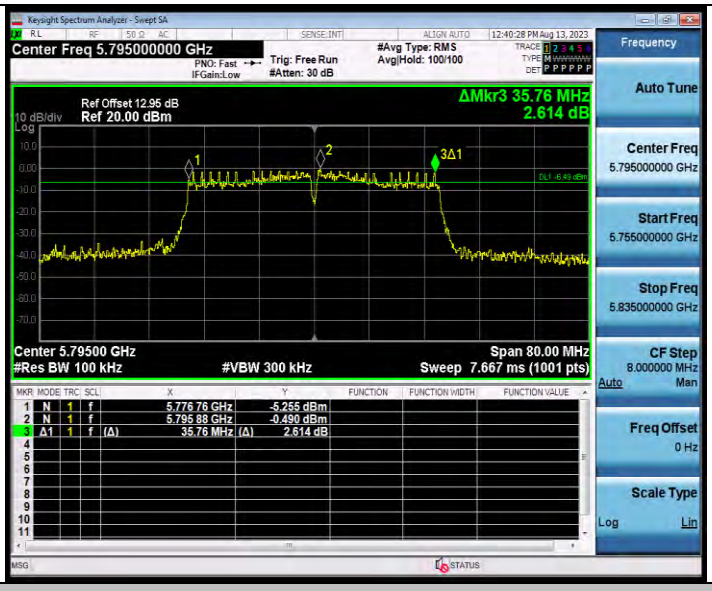
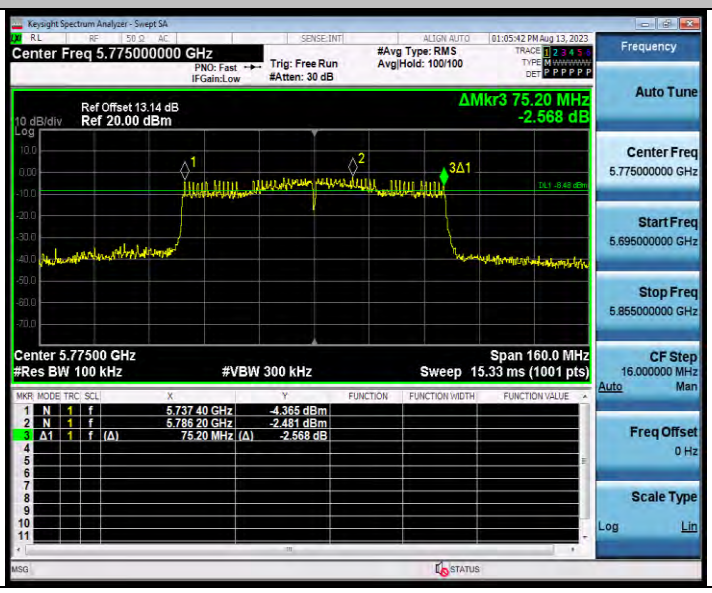


11AC80SISO_Ant1_5775



DUTY CYCLE

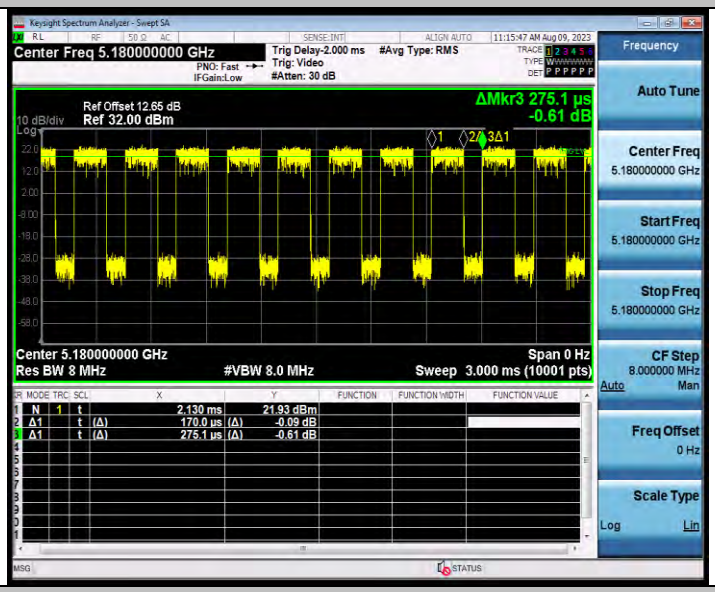
TEST RESULT

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.17	0.27	62.96
		5200	0.17	0.27	62.96
		5240	0.18	0.28	64.29
		5260	0.18	0.28	64.29
		5300	0.18	0.28	64.29
		5320	0.17	0.27	62.96
		5500	0.17	0.28	60.71
		5580	0.17	0.27	62.96
		5700	0.18	0.28	64.29
		5720	0.18	0.28	64.29
		5745	0.35	0.55	63.64
		5785	0.18	0.27	66.67
		5825	0.17	0.28	60.71
11N20SISO	Ant1	5180	0.16	0.26	61.54
		5200	0.17	0.27	62.96
		5240	0.16	0.27	59.26
		5260	0.17	0.27	62.96
		5300	0.17	0.27	62.96
		5320	0.17	0.27	62.96
		5500	0.16	0.26	61.54
		5580	0.16	0.27	59.26
		5700	0.16	0.27	59.26
		5720	0.17	0.27	62.96
		5745	0.16	0.26	61.54
		5785	0.16	0.26	61.54
		5825	0.33	0.53	62.26
11N40SISO	Ant1	5190	0.10	0.14	71.43
		5230	0.10	0.15	66.67
		5270	0.10	0.14	71.43
		5310	0.10	0.14	71.43

		5510	0.10	0.18	55.56
		5550	0.10	0.14	71.43
		5670	0.10	0.15	66.67
		5710	0.10	0.18	55.56
		5755	0.10	0.14	71.43
		5795	0.20	0.29	68.97
11AC20SISO	Ant1	5180	0.15	0.19	78.95
		5200	0.16	0.24	66.67
		5240	0.15	0.19	78.95
		5260	0.15	0.19	78.95
		5300	0.15	0.19	78.95
		5320	0.15	0.19	78.95
		5500	0.15	0.19	78.95
		5580	0.15	0.19	78.95
		5700	0.15	0.19	78.95
		5720	0.15	0.19	78.95
		5745	0.15	0.19	78.95
		5785	0.18	0.26	69.23
		5825	0.15	0.19	78.95
11AC40SISO	Ant1	5190	0.09	0.17	52.94
		5230	0.09	0.13	69.23
		5270	0.09	0.12	75.00
		5310	0.09	0.13	69.23
		5510	0.18	0.26	69.23
		5550	0.09	0.13	69.23
		5670	0.09	0.17	52.94
		5710	0.09	0.13	69.23
		5755	0.09	0.13	69.23
		5795	0.09	0.13	69.23
11AC80SISO	Ant1	5210	0.06	0.10	60.00
		5290	0.06	0.11	54.55
		5530	0.07	0.11	63.64
		5610	0.07	0.11	63.64
		5690	0.07	0.11	63.64
		5775	0.07	0.11	63.64

TEST GRAPHS

11A_Ant1_5180



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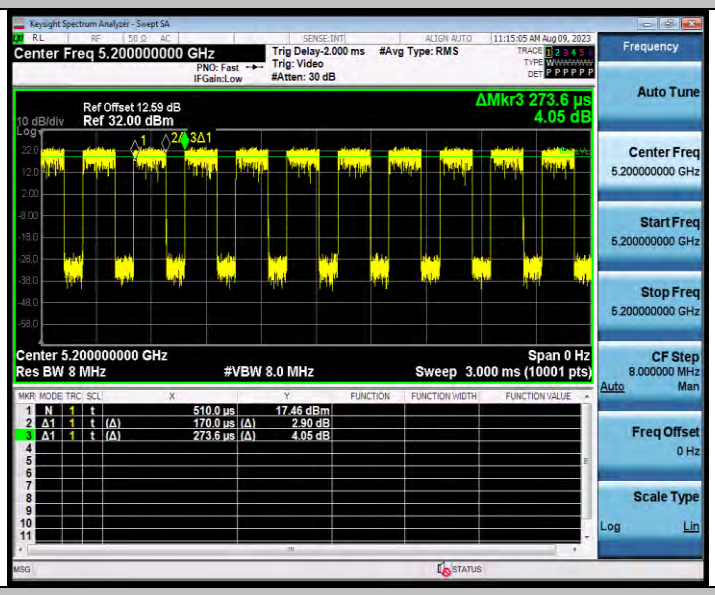

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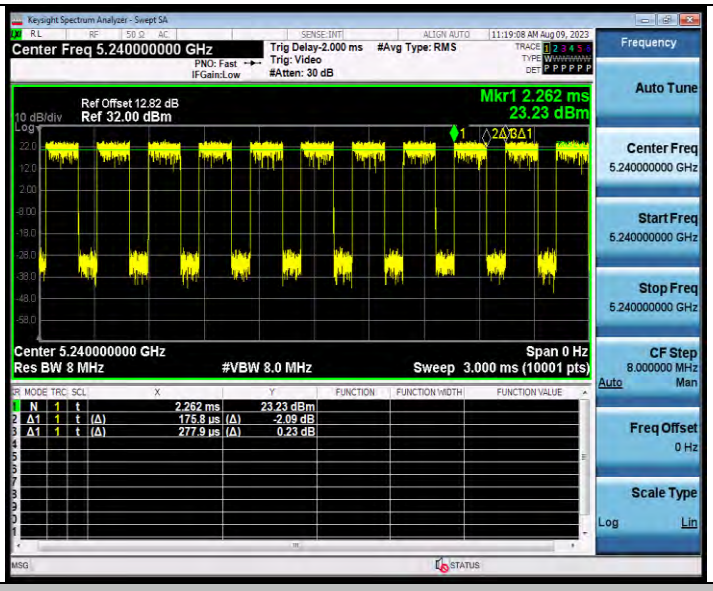

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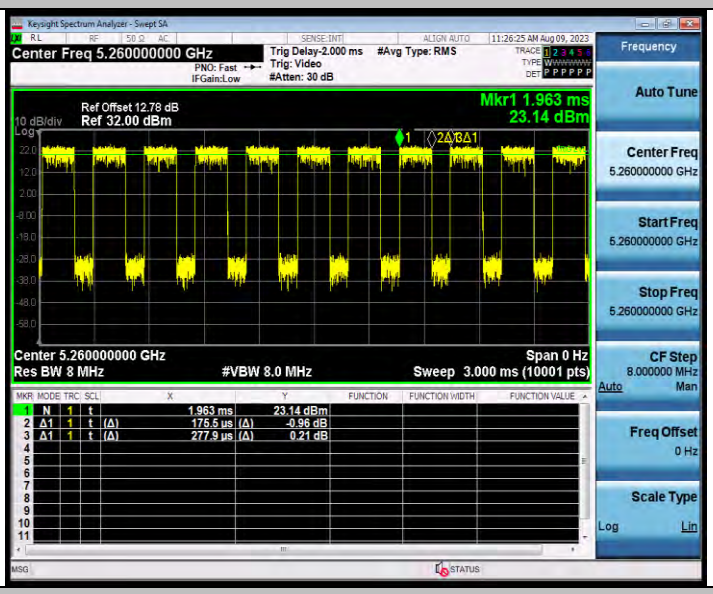

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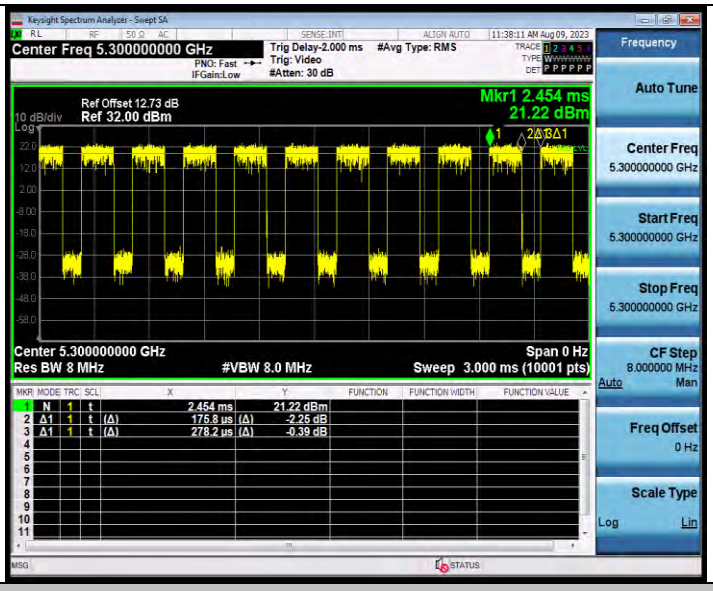

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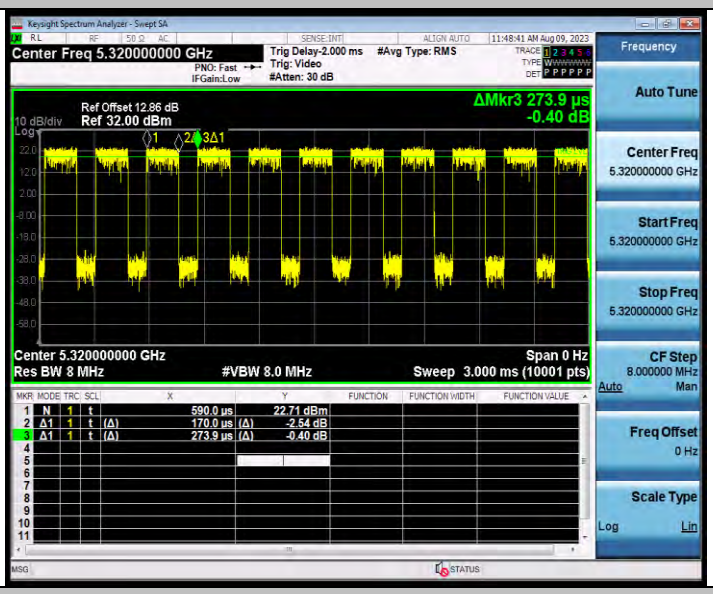

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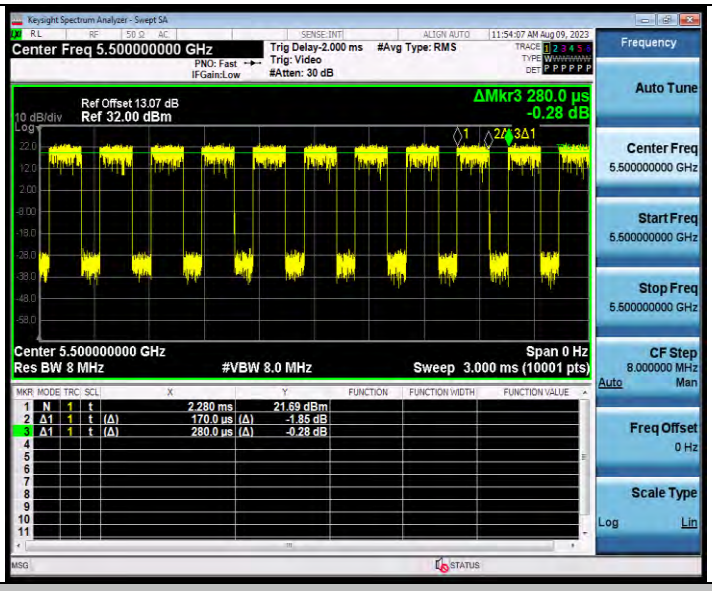
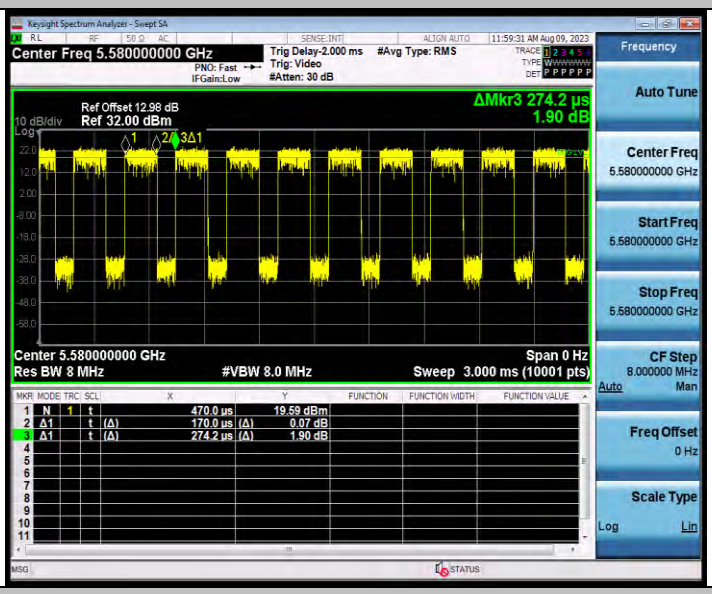


11A_Ant1_5580



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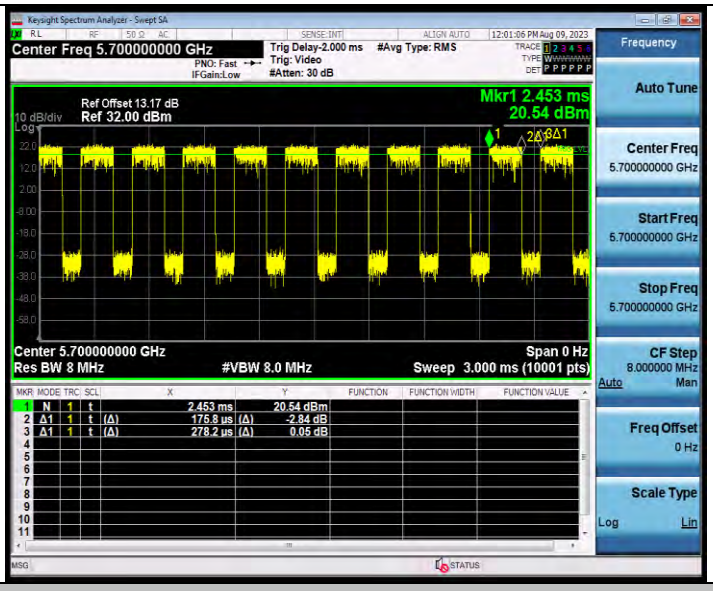

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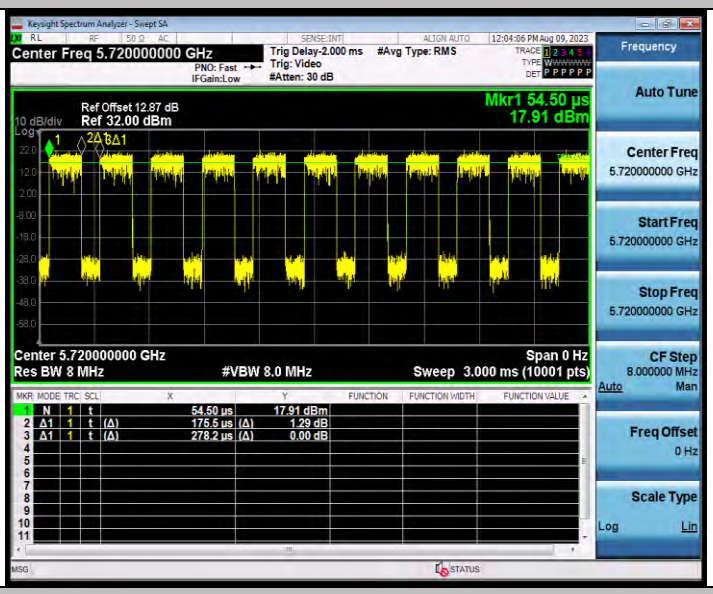

11A_Ant1_5745