Appendix Test Data

Report No.:	18220WC30249004	Test Sample No.:	1-2-2
Start Test Date:	2023.12.02	Finish Test Date:	2023.12.04
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.7℃	Relative Humidity:	44%
Pressure:	101kPa		

Appendix A1: Emission Bandwidth

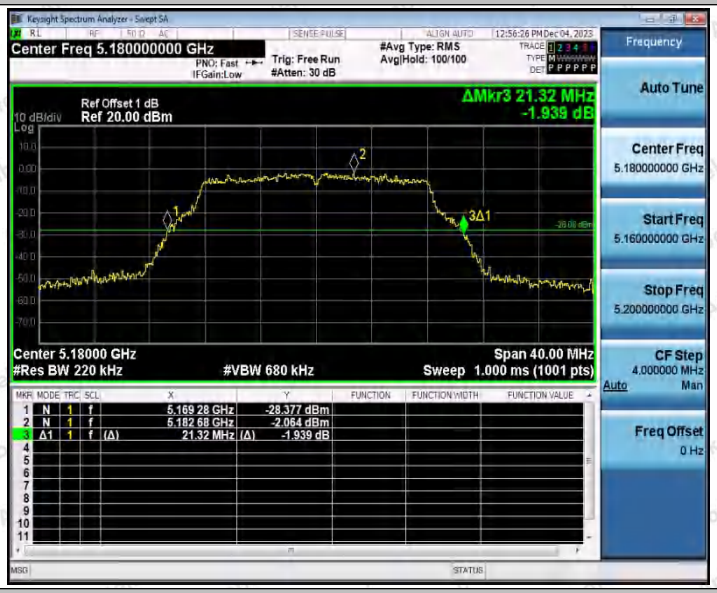
Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.320	5169.280	5190.600	---	---
		5200	21.080	5189.360	5210.440	---	---
		5240	21.080	5229.400	5250.480	---	---
		5260	21.000	5249.440	5270.440	---	---
		5300	21.200	5289.480	5310.680	---	---
		5320	20.920	5309.560	5330.480	---	---
		5745	21.080	5734.400	5755.480	---	---
		5785	20.800	5774.600	5795.400	---	---
		5825	21.120	5814.480	5835.600	---	---
11N20SISO	Ant1	5180	21.360	5169.320	5190.680	---	---
		5200	21.680	5189.040	5210.720	---	---
		5240	21.480	5229.080	5250.560	---	---
		5260	21.280	5249.400	5270.680	---	---
		5300	21.600	5289.120	5310.720	---	---
		5320	21.240	5309.320	5330.560	---	---
		5745	21.200	5734.360	5755.560	---	---
		5785	21.160	5774.360	5795.520	---	---
		5825	21.360	5814.240	5835.600	---	---
11N40SISO	Ant1	5190	40.320	5169.920	5210.240	---	---
		5230	39.440	5210.320	5249.760	---	---
		5270	39.760	5250.160	5289.920	---	---
		5310	39.600	5290.160	5329.760	---	---
		5755	40.000	5734.840	5774.840	---	---

		5795	39.760	5775.080	5814.840	---	---
11AC20SISO	Ant1	5180	21.040	5169.480	5190.520	---	---
		5200	21.400	5189.160	5210.560	---	---
		5240	21.600	5229.200	5250.800	---	---
		5260	21.320	5249.240	5270.560	---	---
		5300	21.200	5289.440	5310.640	---	---
		5320	21.240	5309.280	5330.520	---	---
		5745	21.360	5734.280	5755.640	---	---
		5785	21.400	5774.120	5795.520	---	---
		5825	21.480	5814.040	5835.520	---	---
11AC40SISO	Ant1	5190	39.920	5169.920	5209.840	---	---
		5230	39.920	5210.000	5249.920	---	---
		5270	39.920	5250.000	5289.920	---	---
		5310	40.000	5290.080	5330.080	---	---
		5755	39.840	5735.000	5774.840	---	---
		5795	40.000	5774.840	5814.840	---	---
11AX20SISO	Ant1	5180	21.120	5169.360	5190.480	---	---
		5200	21.000	5189.440	5210.440	---	---
		5240	20.800	5229.560	5250.360	---	---
		5260	21.120	5249.400	5270.520	---	---
		5300	20.960	5289.480	5310.440	---	---
		5320	21.120	5309.400	5330.520	---	---
		5745	21.280	5734.360	5755.640	---	---
		5785	21.200	5774.280	5795.480	---	---
		5825	20.920	5814.480	5835.400	---	---
11AX40SISO	Ant1	5190	39.760	5170.160	5209.920	---	---
		5230	39.680	5210.160	5249.840	---	---
		5270	40.240	5250.160	5290.400	---	---
		5310	40.160	5289.920	5330.080	---	---
		5755	40.000	5735.160	5775.160	---	---
		5795	40.000	5774.920	5814.920	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200

11A_Ant1_5240

11A_Ant1_5260

11A_Ant1_5300

11A_Ant1_5320

11A_Ant1_5745

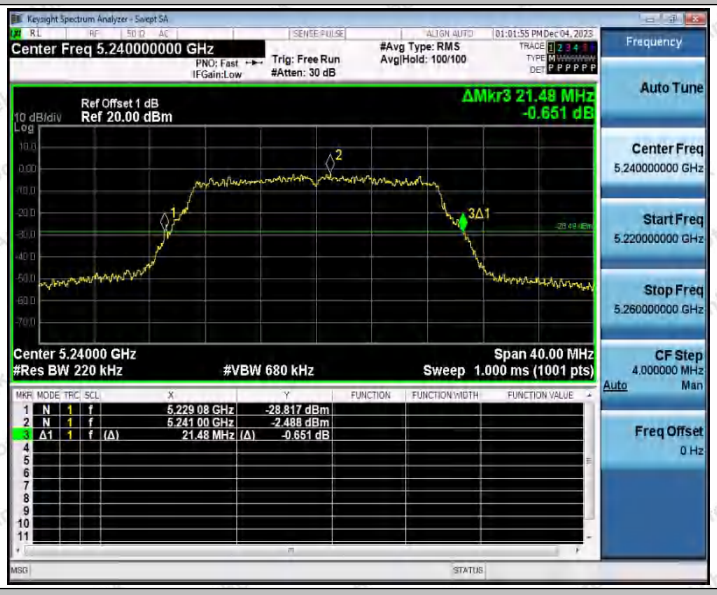
11A_Ant1_5785

11A_Ant1_5825

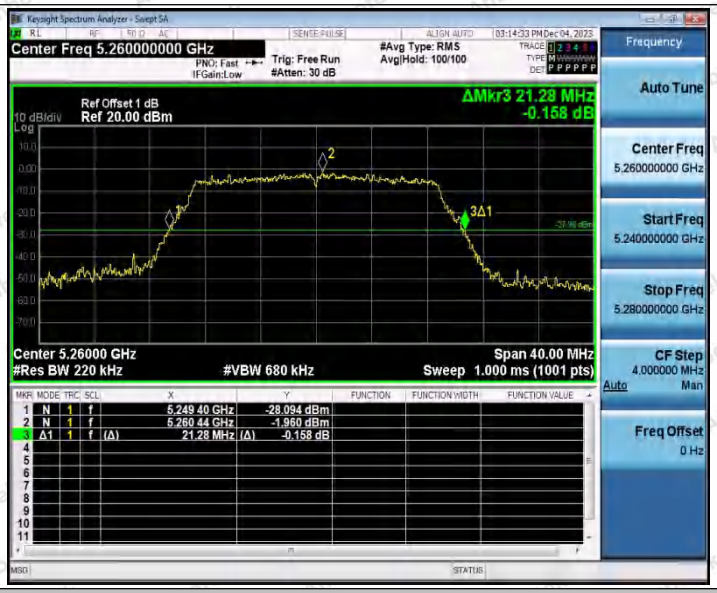
11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



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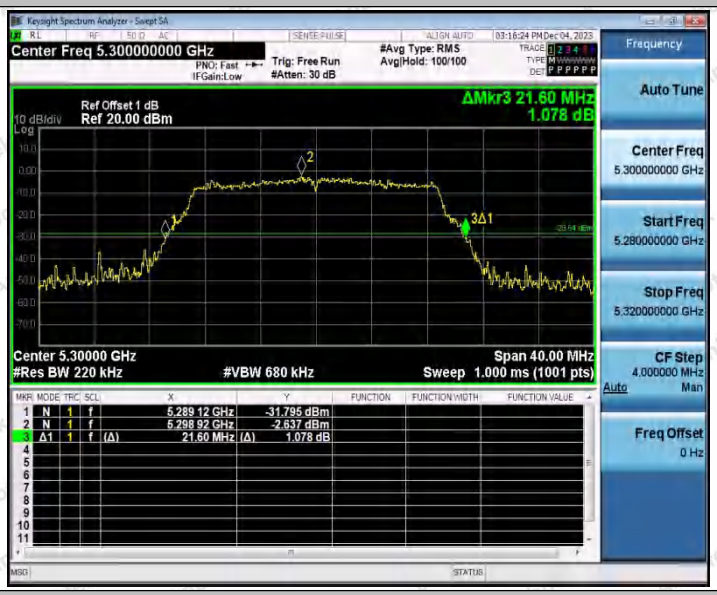


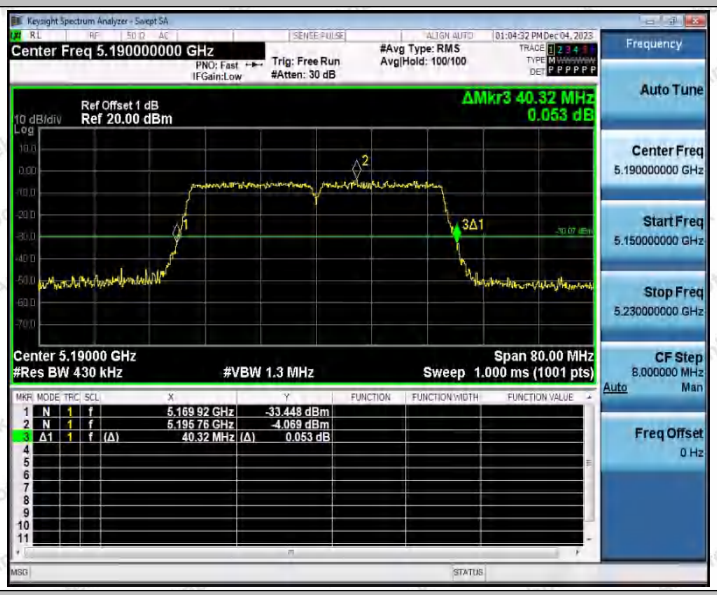
11N20SISO_Ant1_5320

11N20SISO_Ant1_5745

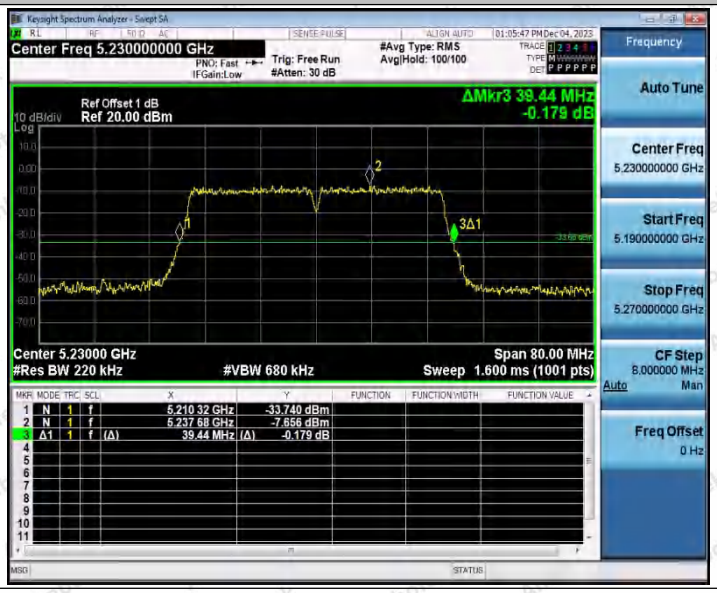
11N20SISO_Ant1_5785

11N20SISO_Ant1_5825

11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



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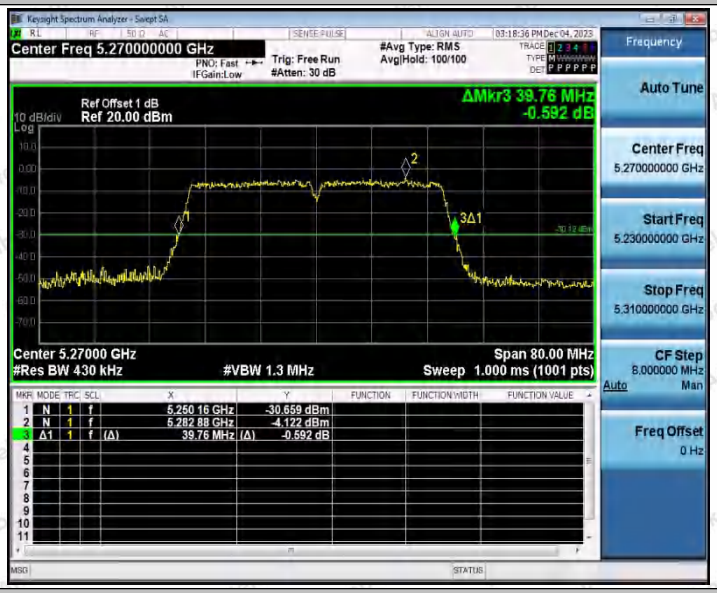

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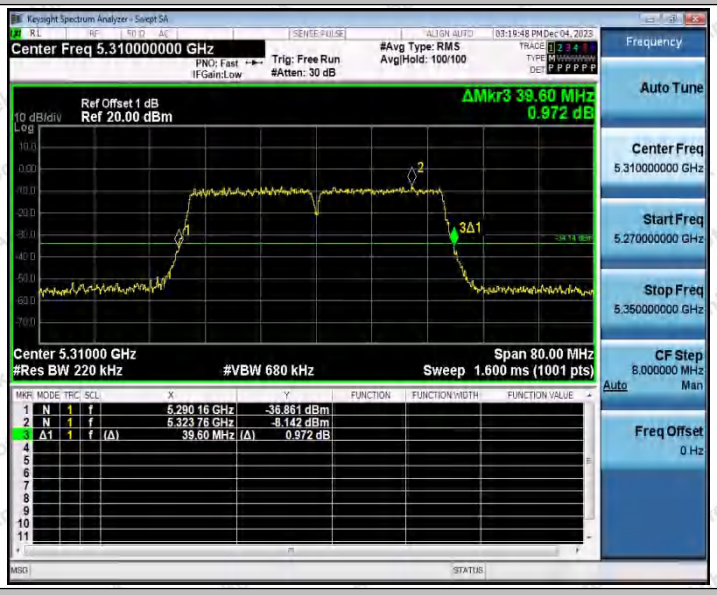
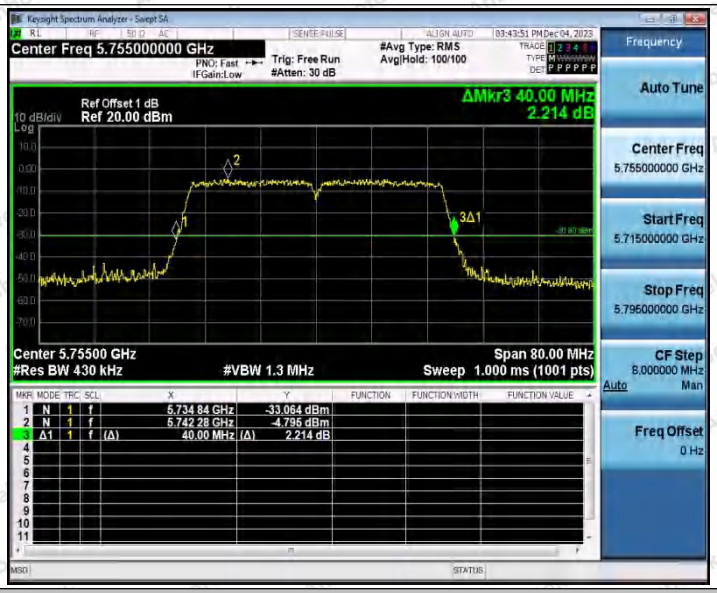
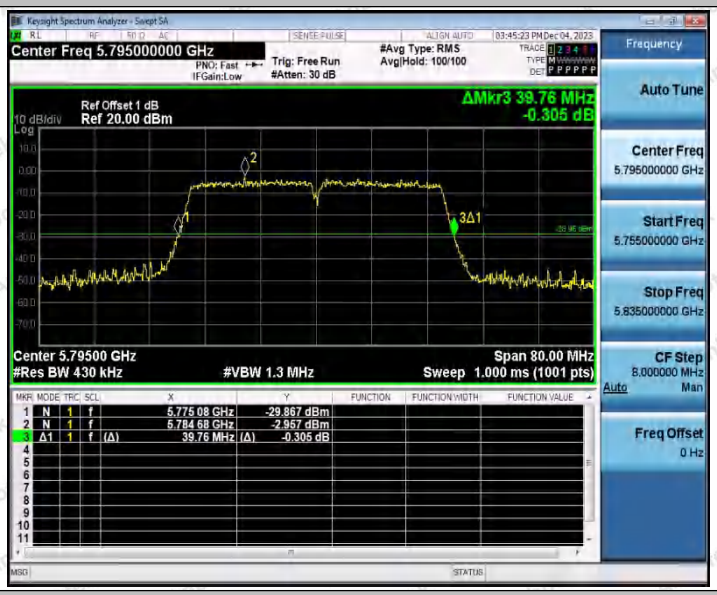


11N40SISO_Ant1_5755

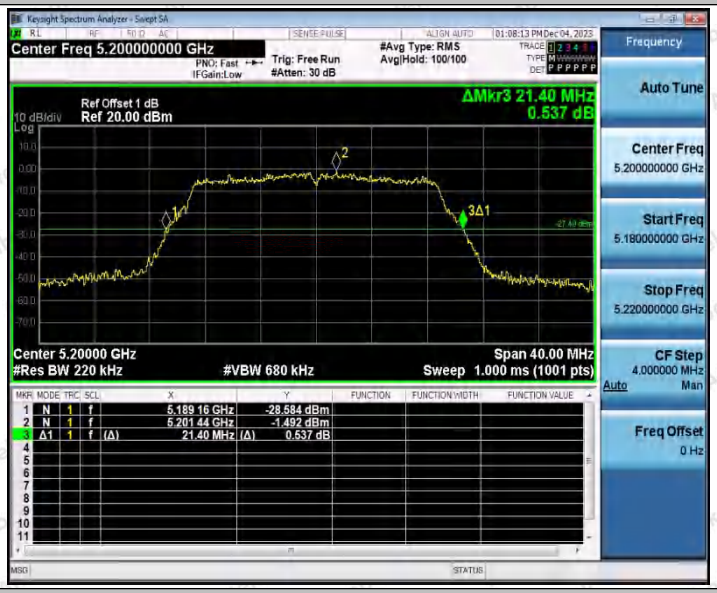


11N40SISO_Ant1_5795



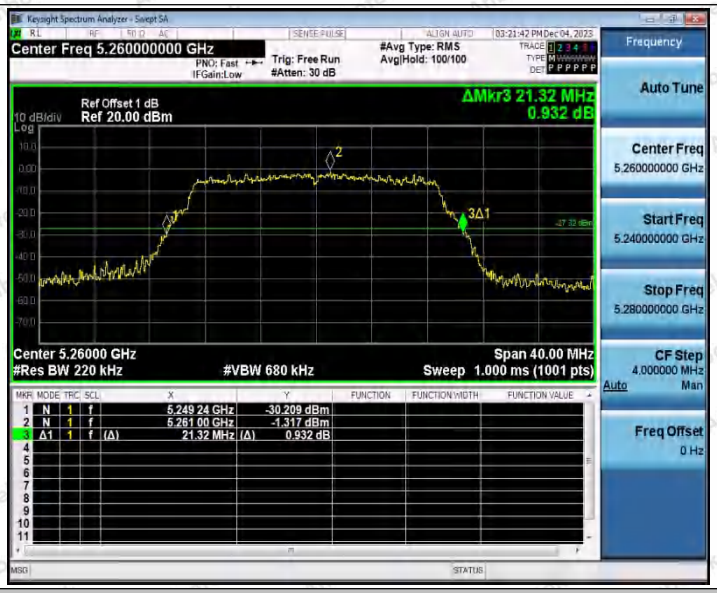
11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240

11AC20SISO_Ant1_5260



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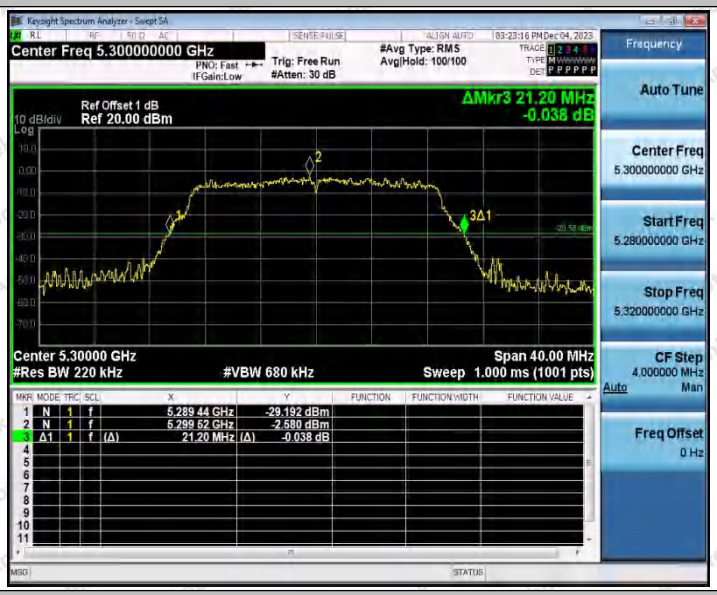


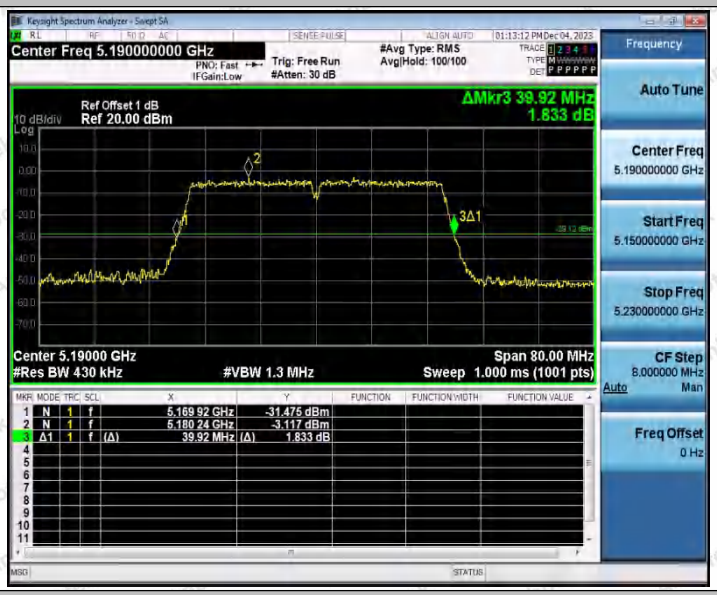
11AC20SISO_Ant1_5320

11AC20SISO_Ant1_5745

11AC20SISO_Ant1_5785

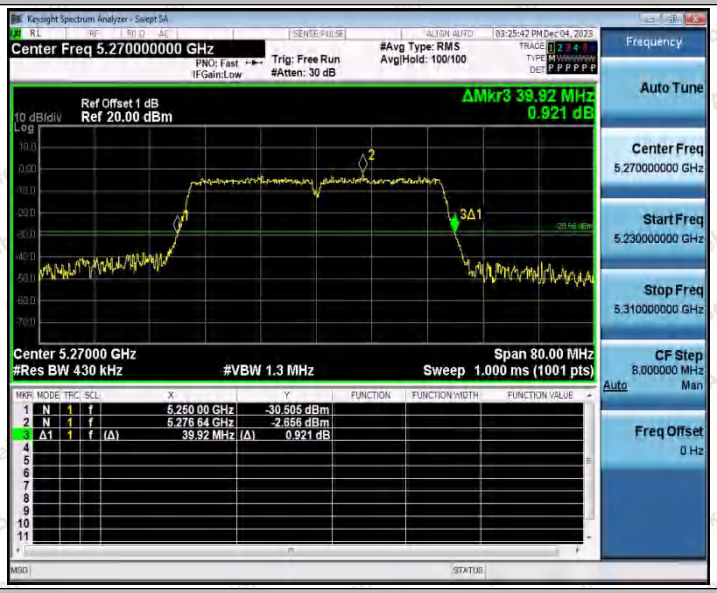
11AC20SISO_Ant1_5825

11AC40SISO_Ant1_5190

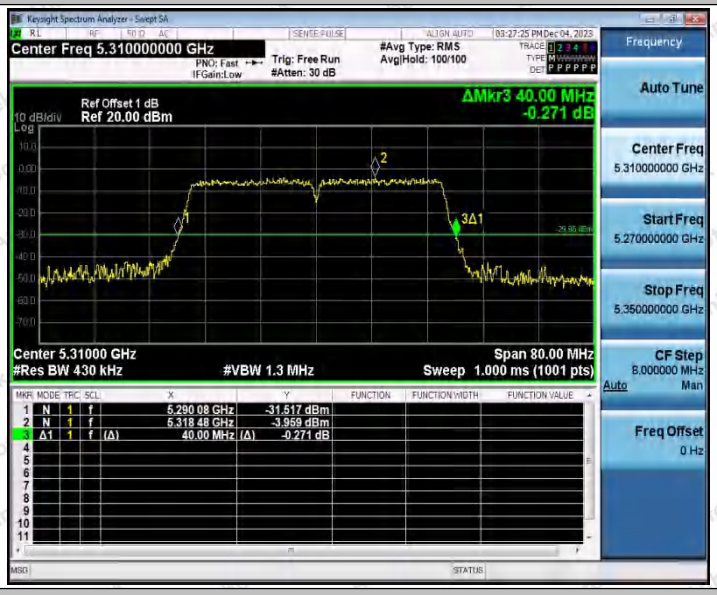


11AC40SISO_Ant1_5230

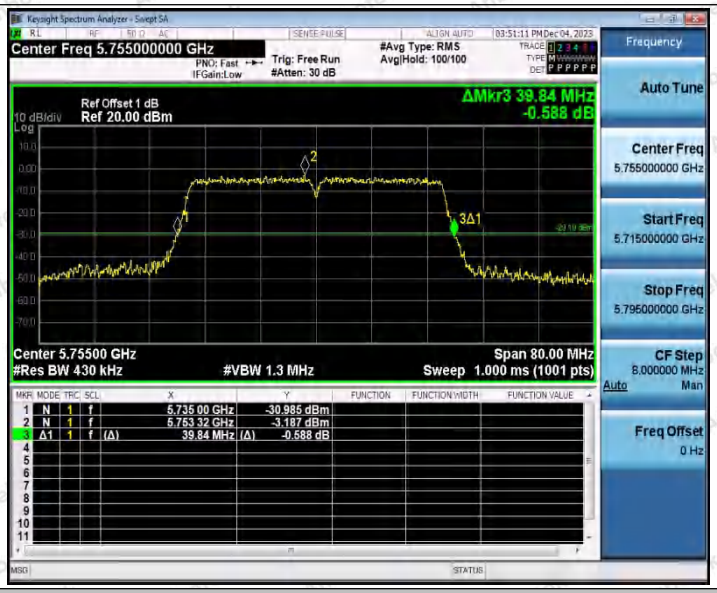
11AC40SISO_Ant1_5270



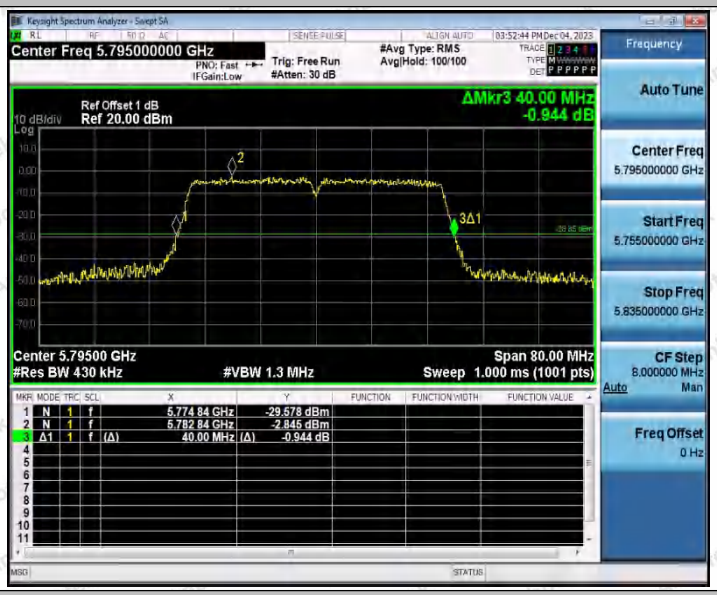
11AC40SISO_Ant1_5310



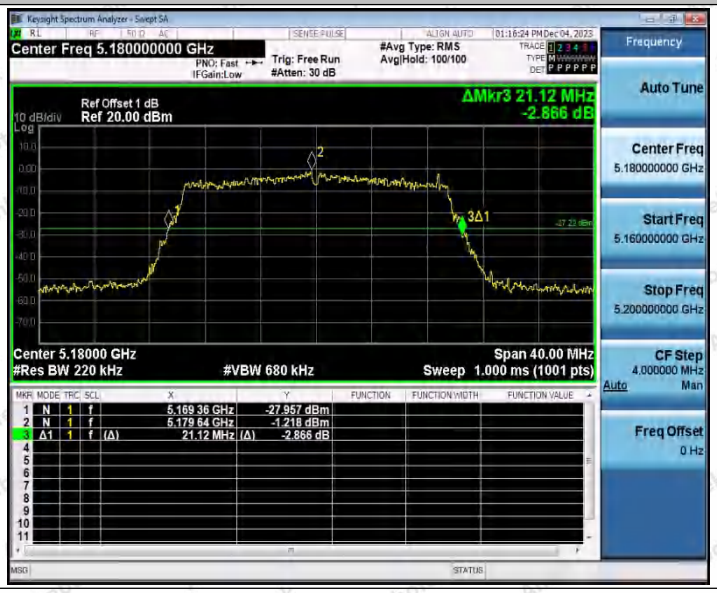
11AC40SISO_Ant1_5755



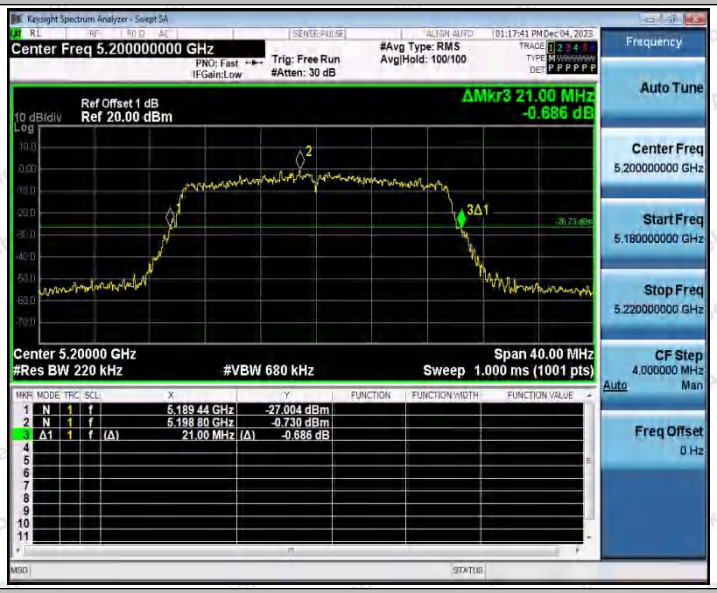
11AC40SISO_Ant1_5795



11AX20SISO_Ant1_5180

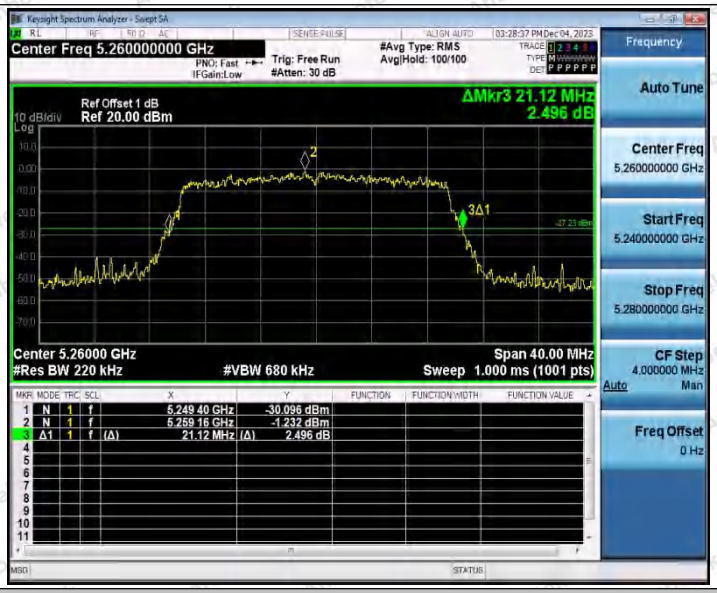


11AX20SISO_Ant1_5200



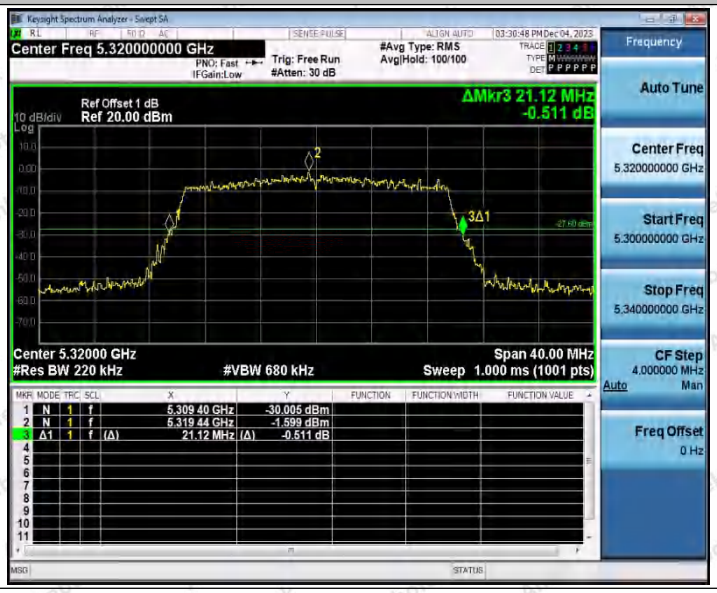
11AX20SISO_Ant1_5240

11AX20SISO_Ant1_5260



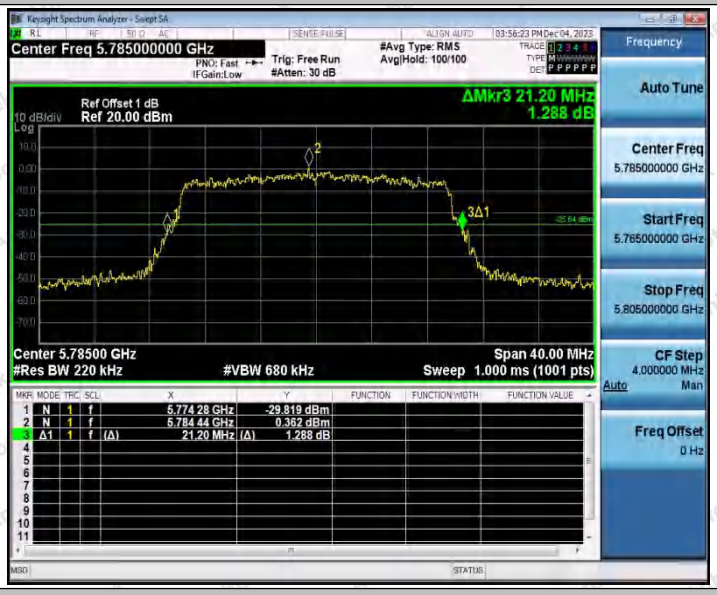
11AX20SISO_Ant1_5300

11AX20SISO_Ant1_5320

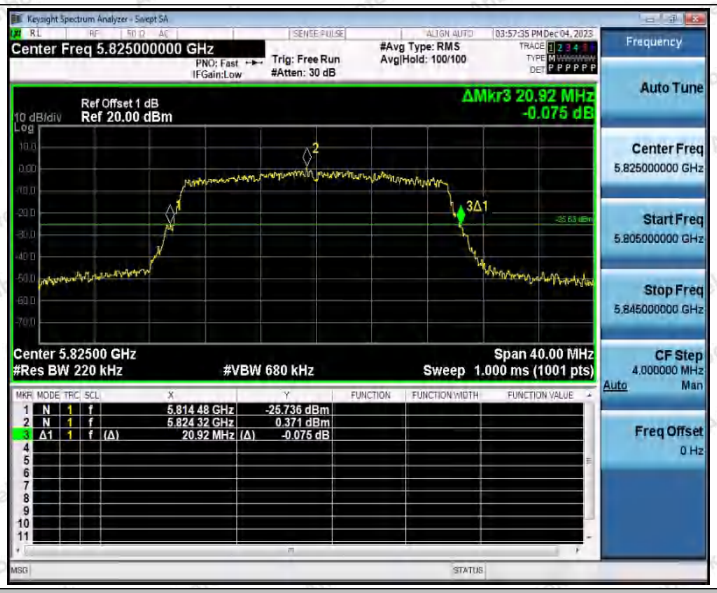


11AX20SISO_Ant1_5745

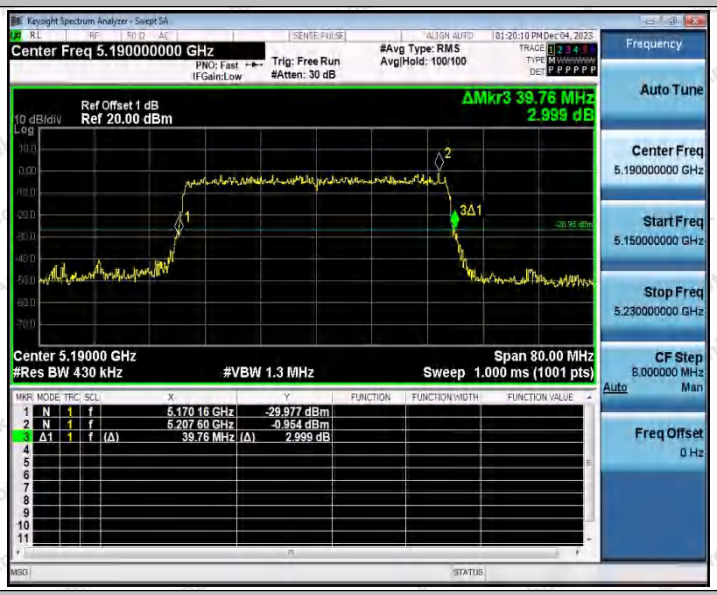
11AX20SISO_Ant1_5785



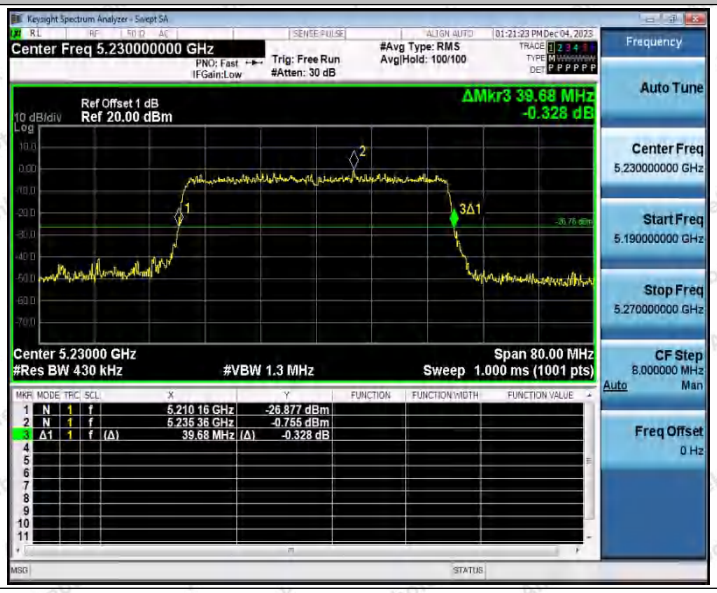
11AX20SISO_Ant1_5825



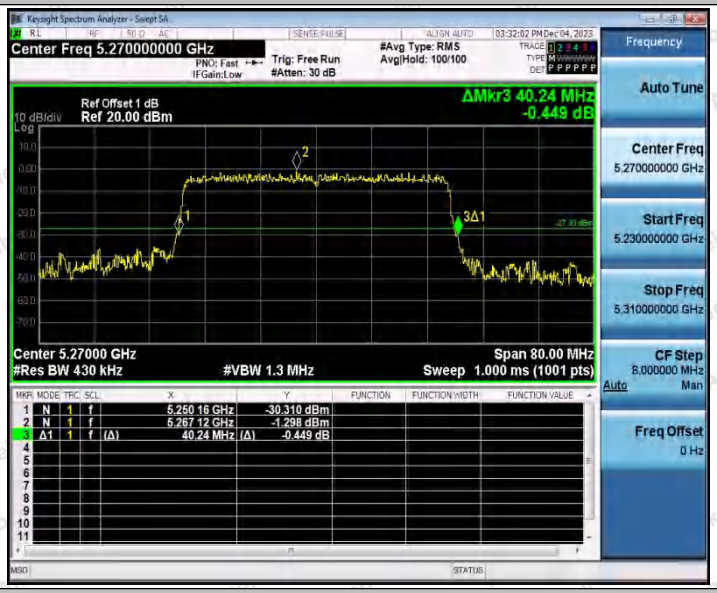
11AX40SISO_Ant1_5190



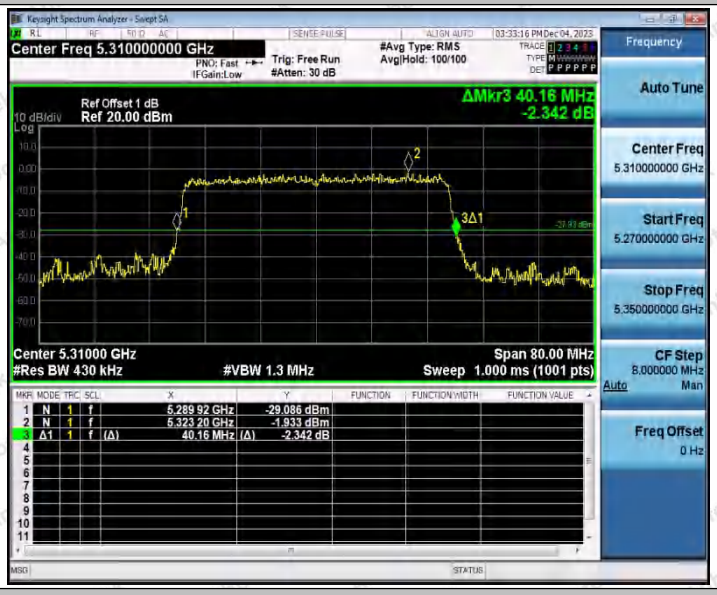
11AX40SISO_Ant1_5230



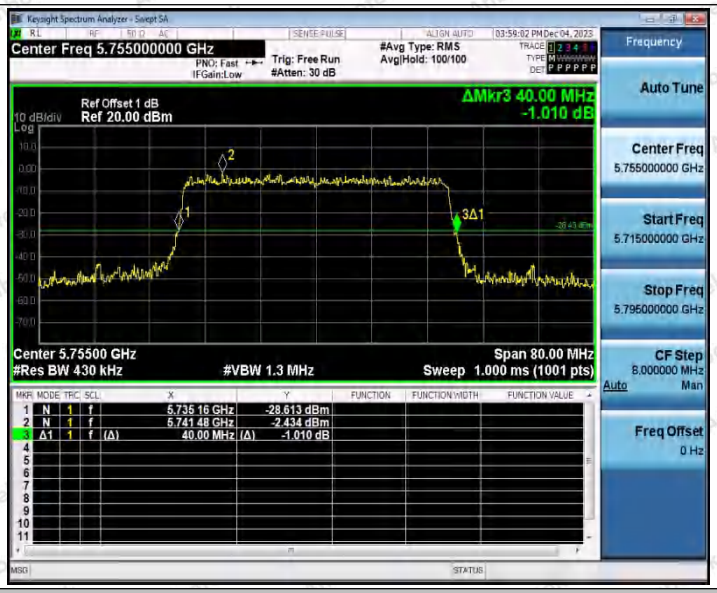
11AX40SISO_Ant1_5270



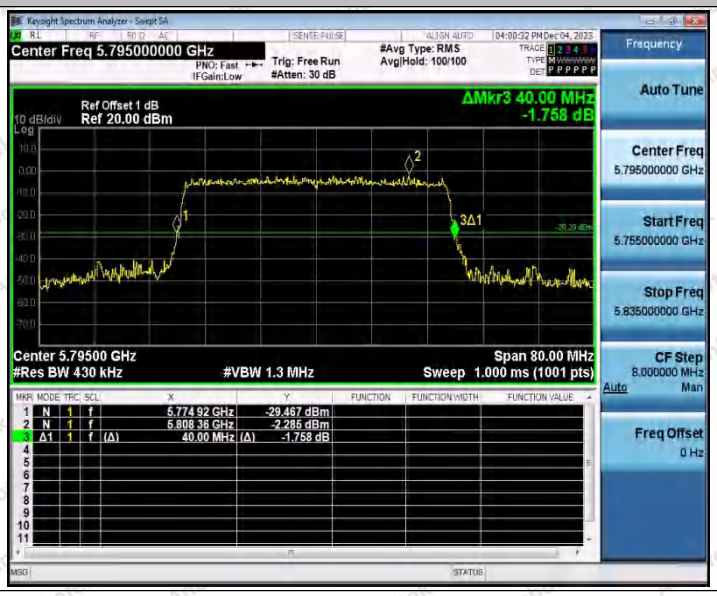
11AX40SISO_Ant1_5310



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



Appendix A2: Occupied channel bandwidth

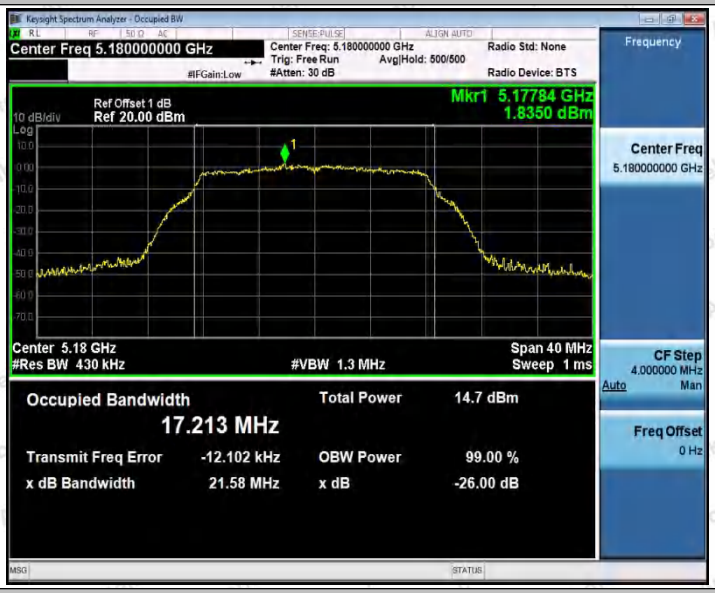
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.213	5171.3814	5188.5944	---	---
		5200	17.244	5191.3221	5208.5661	---	---
		5240	17.233	5231.3430	5248.5760	---	---
		5260	17.247	5251.3308	5268.5778	---	---
		5300	17.229	5291.3514	5308.5804	---	---
		5320	17.192	5311.3906	5328.5826	---	---
		5745	17.279	5736.3082	5753.5872	---	---
		5785	17.214	5776.3240	5793.5380	---	---
		5825	17.273	5816.3028	5833.5758	---	---
11N20SISO	Ant1	5180	18.284	5170.8084	5189.0924	---	---
		5200	18.293	5190.8175	5209.1105	---	---
		5240	18.317	5230.7995	5249.1165	---	---
		5260	18.335	5250.7532	5269.0882	---	---
		5300	18.262	5290.8609	5309.1229	---	---
		5320	18.271	5310.8641	5329.1351	---	---
		5745	18.283	5735.8219	5754.1049	---	---
		5785	18.326	5775.7986	5794.1246	---	---
		5825	18.301	5815.8302	5834.1312	---	---
11N40SISO	Ant1	5190	36.728	5171.6707	5208.3987	---	---
		5230	36.658	5211.6870	5248.3450	---	---
		5270	36.657	5251.6867	5288.3437	---	---
		5310	36.670	5291.7437	5328.4137	---	---
		5755	36.677	5736.6589	5773.3359	---	---
		5795	36.630	5776.6755	5813.3055	---	---
11AC20SISO	Ant1	5180	18.346	5170.7862	5189.1322	---	---
		5200	18.297	5190.7930	5209.0900	---	---
		5240	18.322	5230.7948	5249.1168	---	---
		5260	18.340	5250.7790	5269.1190	---	---
		5300	18.310	5290.7856	5309.0956	---	---
		5320	18.292	5310.8410	5329.1330	---	---
		5745	18.308	5735.7814	5754.0894	---	---
		5785	18.241	5775.7954	5794.0364	---	---
		5825	18.301	5815.8045	5834.1055	---	---
11AC40SISO	Ant1	5190	36.696	5171.6708	5208.3668	---	---
		5230	36.621	5211.6946	5248.3156	---	---
		5270	36.748	5251.6088	5288.3568	---	---
		5310	36.696	5291.7296	5328.4256	---	---

		5755	36.742	5736.6381	5773.3801	---	---
		5795	36.628	5776.6745	5813.3025	---	---
11AX20SISO	Ant1	5180	19.007	5170.4676	5189.4746	---	---
		5200	19.003	5190.4490	5209.4520	---	---
		5240	19.059	5230.4120	5249.4710	---	---
		5260	19.031	5250.4547	5269.4857	---	---
		5300	19.025	5290.4311	5309.4561	---	---
		5320	19.021	5310.4807	5329.5017	---	---
		5745	19.039	5735.4065	5754.4455	---	---
		5785	18.997	5775.4611	5794.4581	---	---
		5825	19.025	5815.4206	5834.4456	---	---
11AX40SISO	Ant1	5190	37.660	5171.1655	5208.8255	---	---
		5230	37.679	5211.1708	5248.8498	---	---
		5270	37.767	5251.1609	5288.9279	---	---
		5310	37.618	5291.2485	5328.8665	---	---
		5755	37.738	5736.1261	5773.8641	---	---
		5795	37.636	5776.1503	5813.7863	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200

11A_Ant1_5240

11A_Ant1_5260

11A_Ant1_5300

11A_Ant1_5320

11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

11N20SISO_Ant1_5180

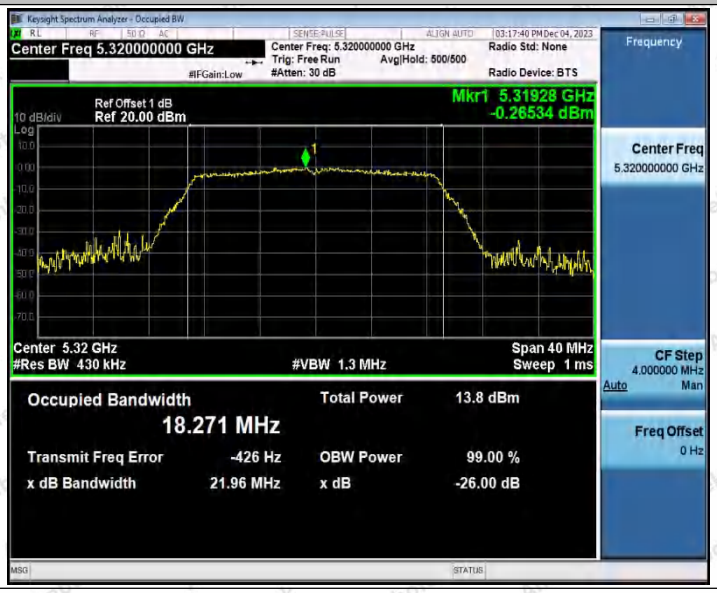
11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

11N20SISO_Ant1_5260

11N20SISO_Ant1_5300

11N20SISO_Ant1_5320

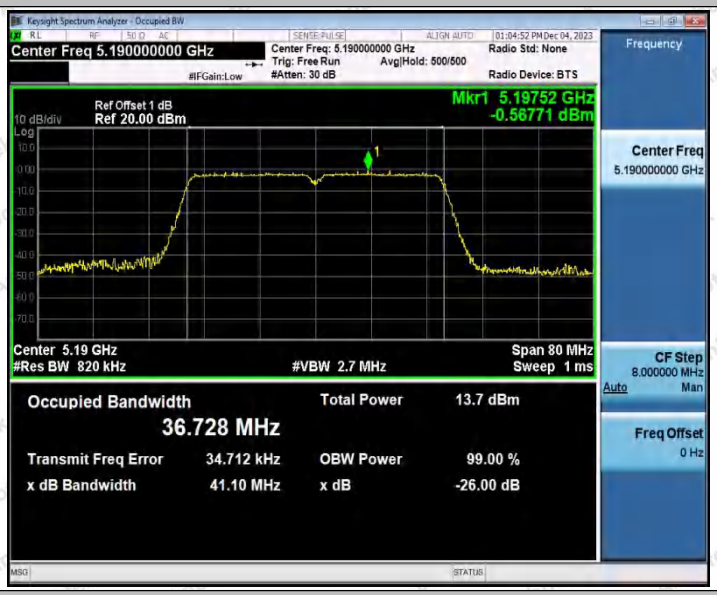


11N20SISO_Ant1_5745

11N20SISO_Ant1_5785

11N20SISO_Ant1_5825

11N40SISO_Ant1_5190

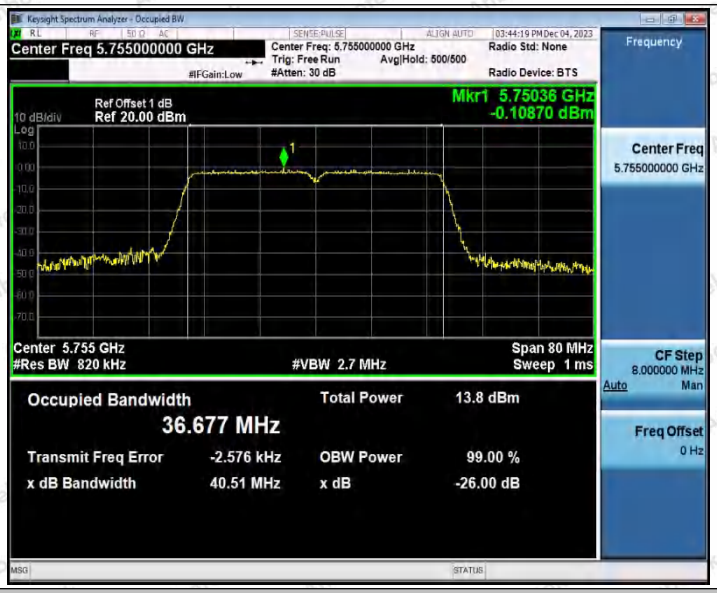


11N40SISO_Ant1_5230

11N40SISO_Ant1_5270

11N40SISO_Ant1_5310

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_5745

11AC20SISO_Ant1_5785

11AC20SISO_Ant1_5825

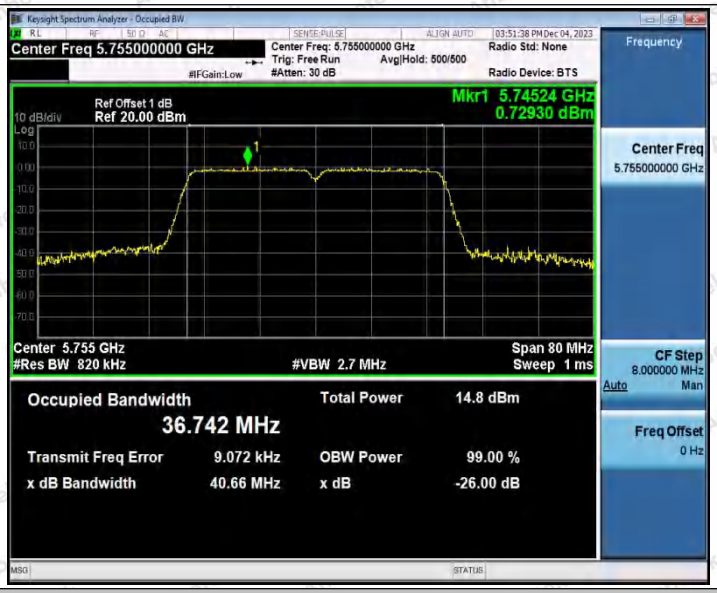
11AC40SISO_Ant1_5190

11AC40SISO_Ant1_5230

11AC40SISO_Ant1_5270

11AC40SISO_Ant1_5310

11AC40SISO_Ant1_5755



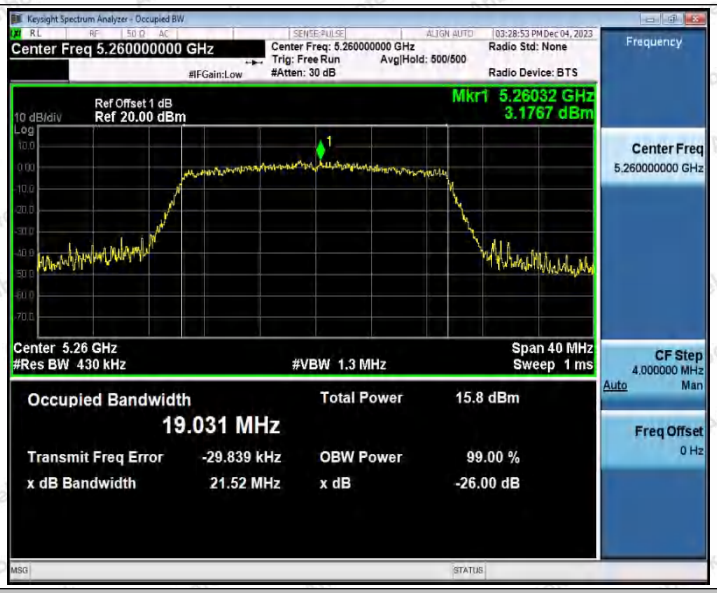
11AC40SISO_Ant1_5795

11AX20SISO_Ant1_5180

11AX20SISO_Ant1_5200

11AX20SISO_Ant1_5240

11AX20SISO_Ant1_5260



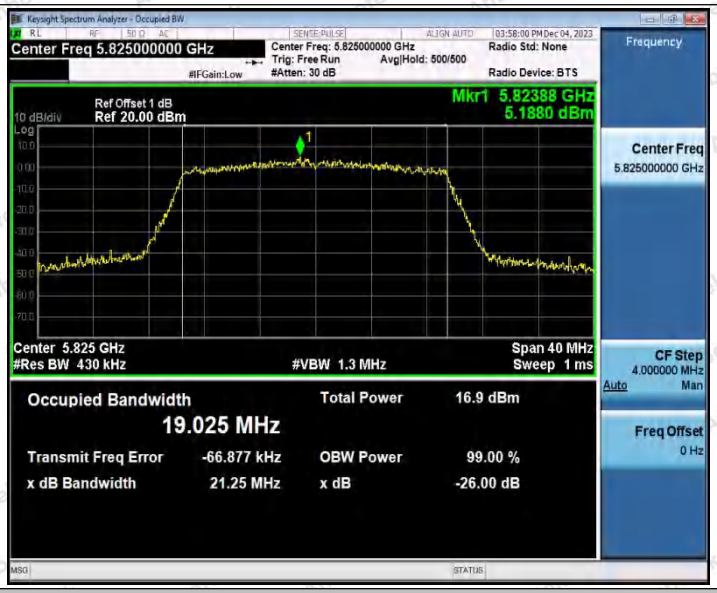
11AX20SISO_Ant1_5300

11AX20SISO_Ant1_5320

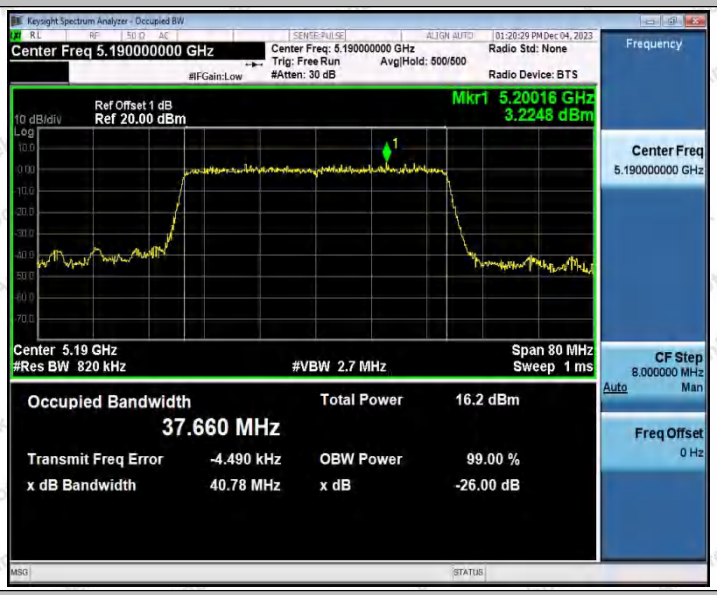
11AX20SISO_Ant1_5745

11AX20SISO_Ant1_5785

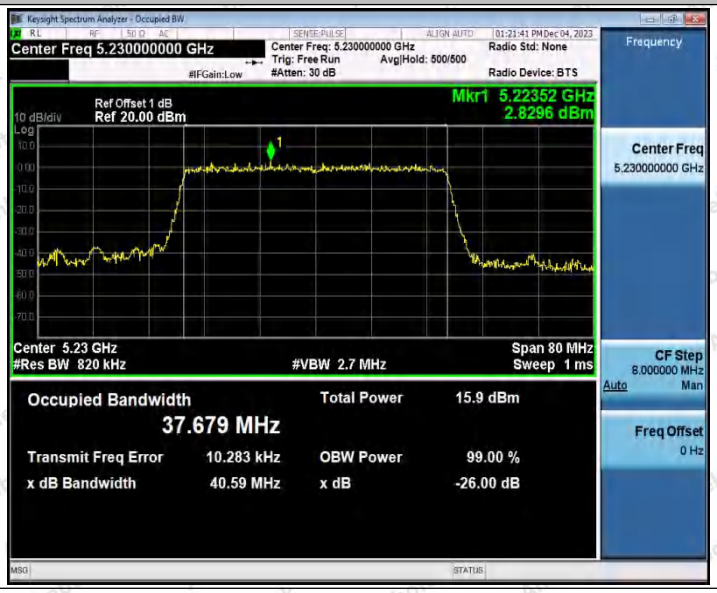
11AX20SISO_Ant1_5825



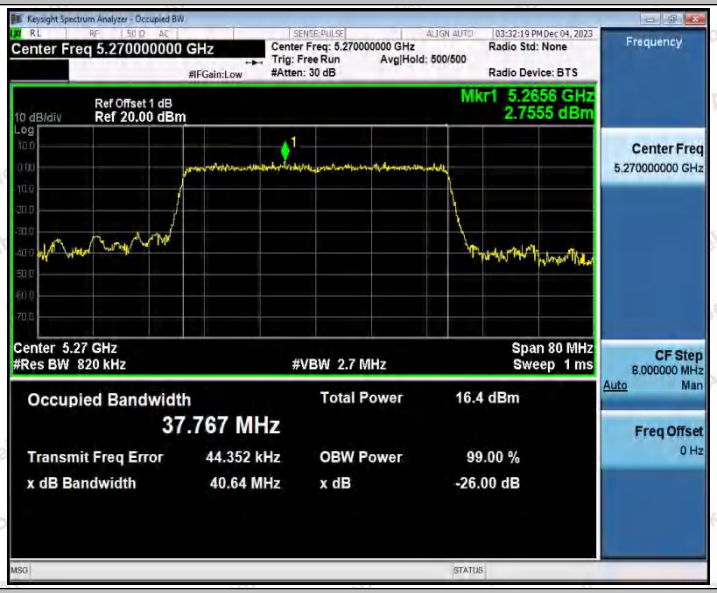
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

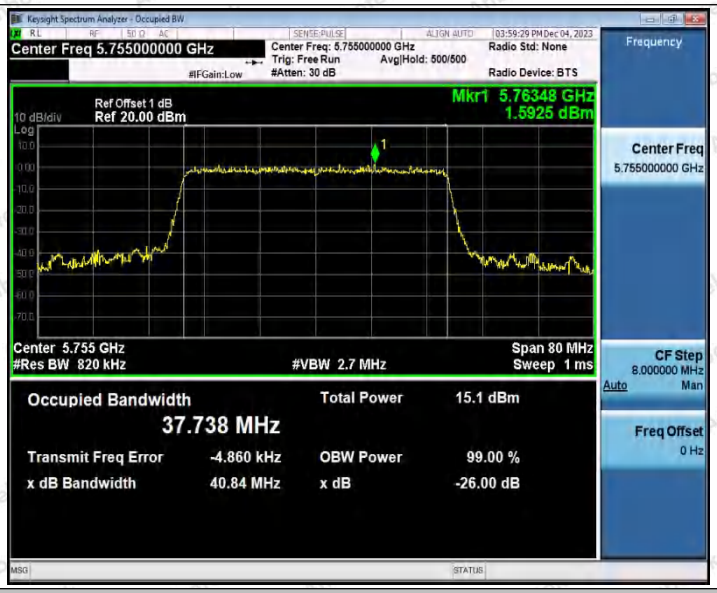


11AX40SISO_Ant1_5270

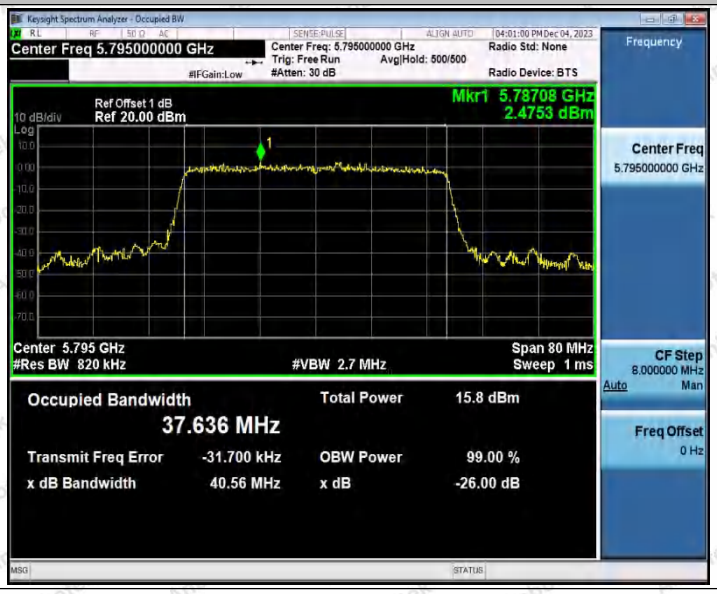


11AX40SISO_Ant1_5310

11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.760	5753.080	0.5	PASS
		5785	16.320	5776.760	5793.080	0.5	PASS
		5825	16.320	5816.760	5833.080	0.5	PASS
11N20SISO	Ant1	5745	17.280	5736.400	5753.680	0.5	PASS
		5785	17.520	5776.160	5793.680	0.5	PASS
		5825	17.520	5816.160	5833.680	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.760	5773.080	0.5	PASS
		5795	35.920	5776.760	5812.680	0.5	PASS
11AC20SISO	Ant1	5745	17.520	5736.160	5753.680	0.5	PASS
		5785	17.520	5776.160	5793.680	0.5	PASS
		5825	16.840	5816.560	5833.400	0.5	PASS
11AC40SISO	Ant1	5755	36.320	5736.760	5773.080	0.5	PASS
		5795	36.320	5776.760	5813.080	0.5	PASS
11AX20SISO	Ant1	5745	18.400	5735.680	5754.080	0.5	PASS
		5785	17.880	5776.160	5794.040	0.5	PASS
		5825	18.640	5815.680	5834.320	0.5	PASS
11AX40SISO	Ant1	5755	37.520	5736.120	5773.640	0.5	PASS
		5795	37.200	5776.280	5813.480	0.5	PASS

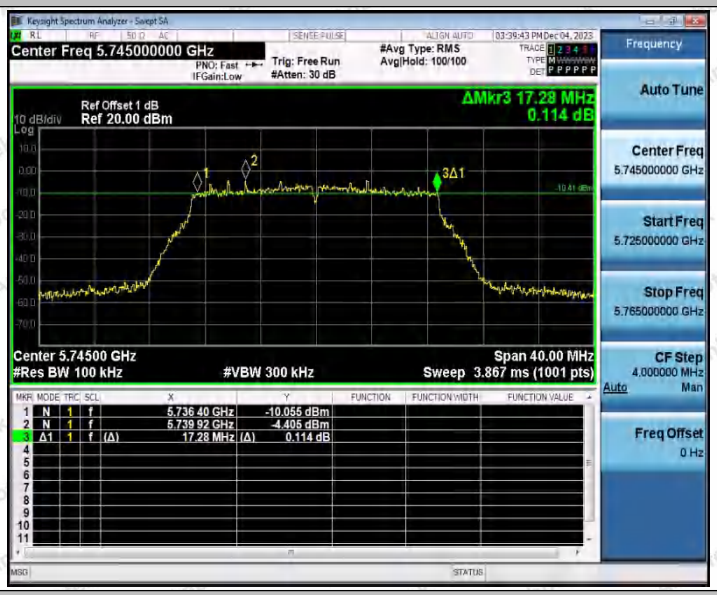
Test Graphs B4

11A_Ant1_5745

11A_Ant1_5785

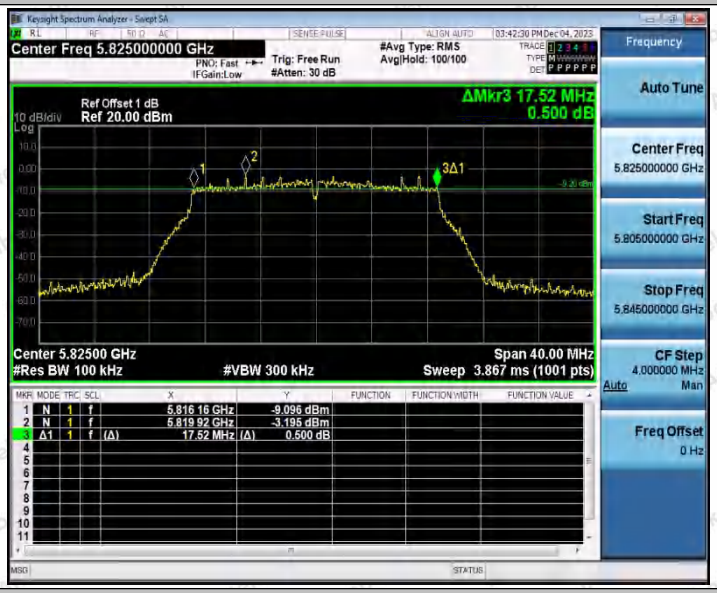
11A_Ant1_5825

11N20SISO_Ant1_5745

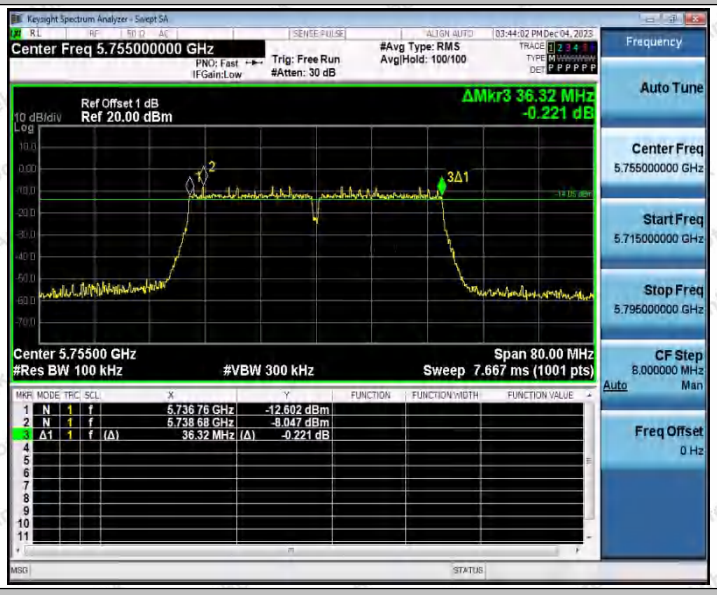


11N20SISO_Ant1_5785

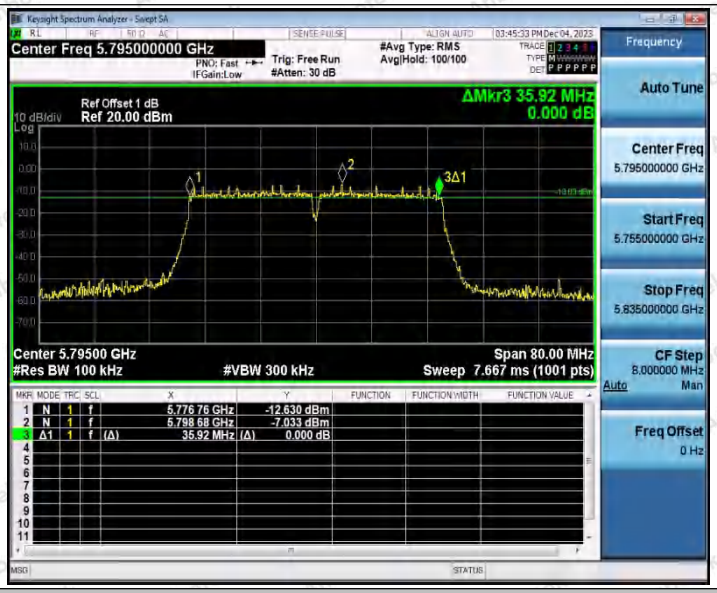
11N20SISO_Ant1_5825



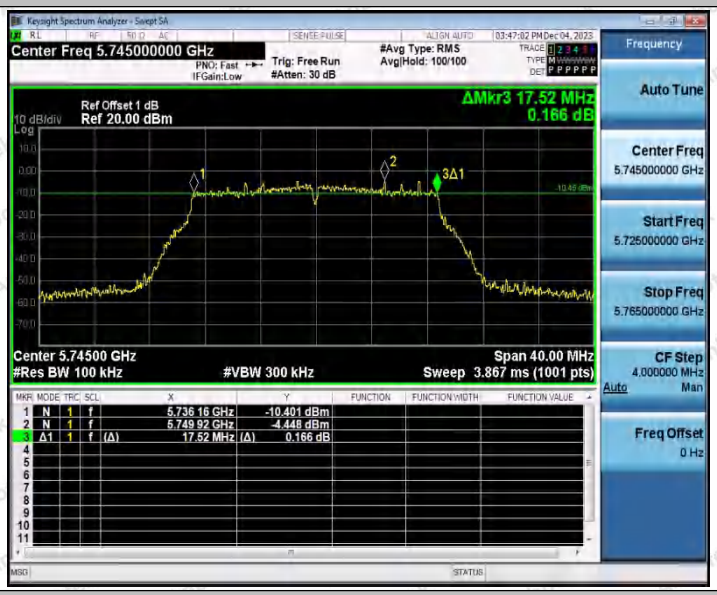
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



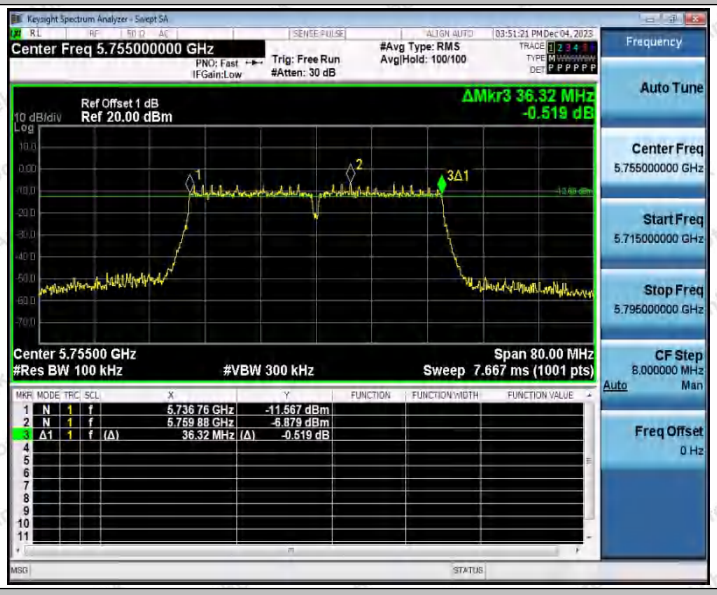
11AC20SISO_Ant1_5745



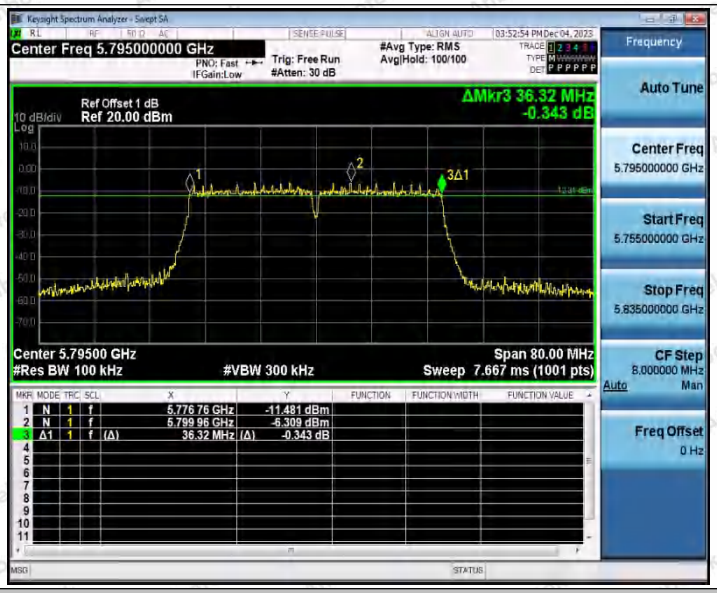
11AC20SISO_Ant1_5785

11AC20SISO_Ant1_5825

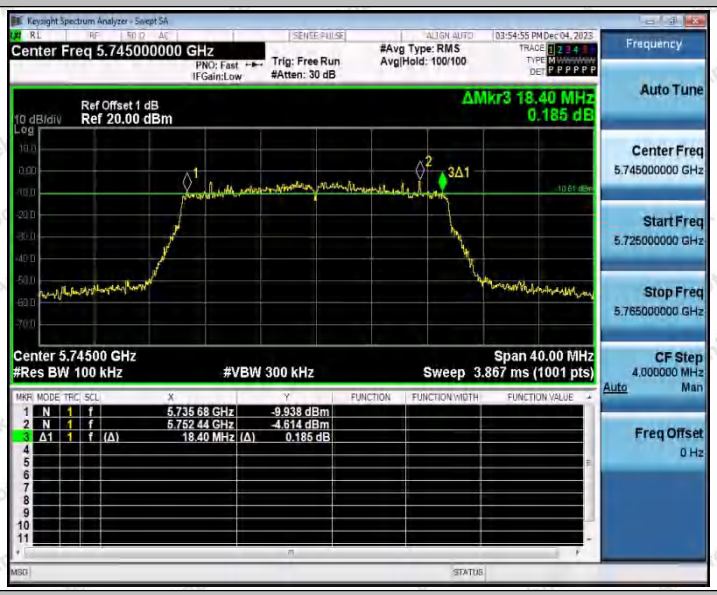
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

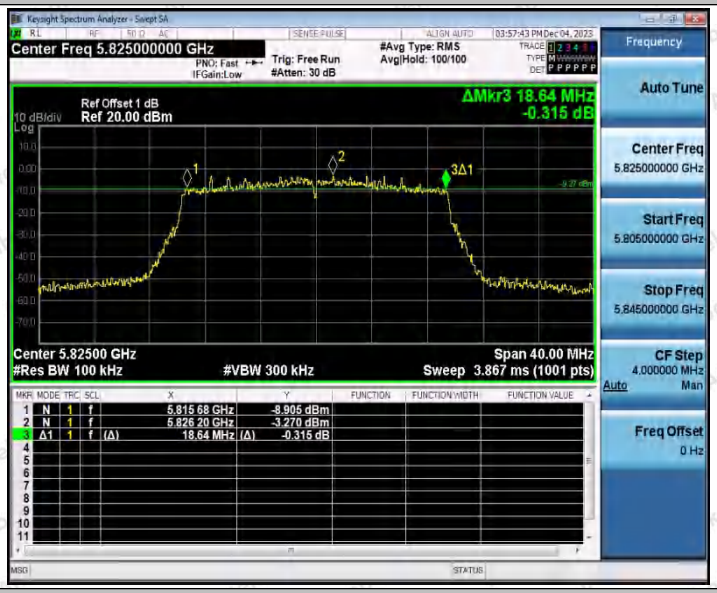


11AX20SISO_Ant1_5745

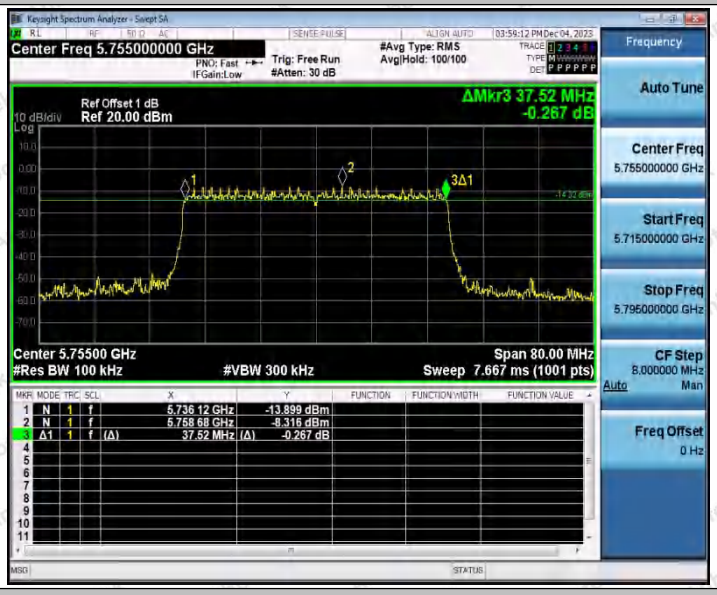


11AX20SISO_Ant1_5785

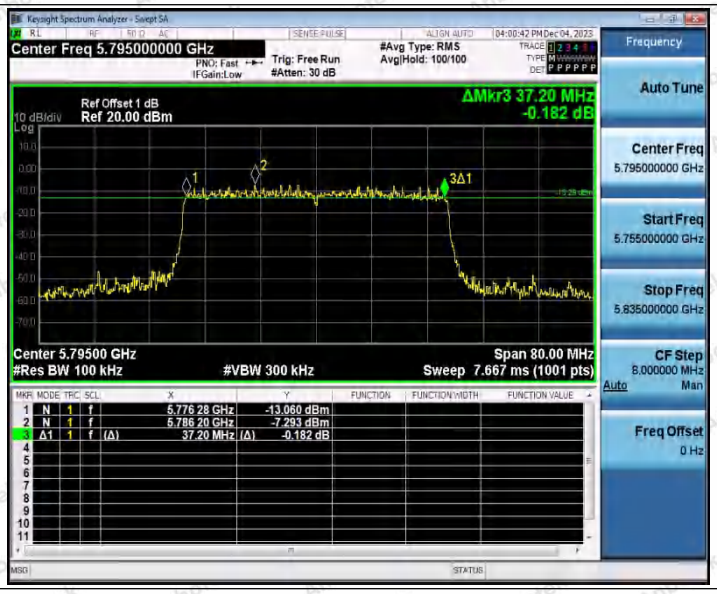
11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 1 dB
10 dB/div Ref 20.00 dBm
ΔMkr3 37.20 MHz
-0.182 dB
Center 5.79500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 80.00 MHz
Sweep 7.667 ms (1001 pts)
1 N 1 f 5.776 28 GHz -13.060 dBm
2 N 1 f 5.786 20 GHz -7.293 dBm
3 Δ1 1 f (Δ) 37.20 MHz (Δ) -0.182 dB
Frequency
Auto Tune
Center Freq 5.795000000 GHz
Start Freq 5.755000000 GHz
Stop Freq 5.835000000 GHz
CF Step 8.000000 MHz
Auto Man
Freq Offset 0 Hz

Appendix B: Duty Cycle

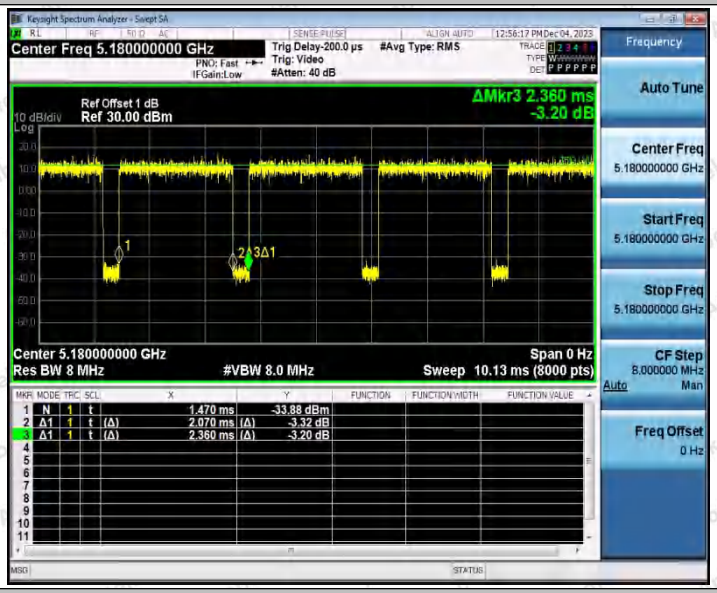
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.07	2.36	87.71
		5200	2.07	2.37	87.34
		5240	2.07	2.36	87.71
		5260	2.07	2.37	87.34
		5300	2.06	2.36	87.29
		5320	2.06	2.36	87.29
		5745	2.06	2.36	87.29
		5785	2.06	2.36	87.29
		5825	2.06	2.36	87.29
11N20SISO	Ant1	5180	1.92	2.22	86.49
		5200	1.92	2.22	86.49
		5240	1.92	2.22	86.49
		5260	1.92	2.22	86.49
		5300	1.92	2.22	86.49
		5320	1.92	2.22	86.49
		5745	1.92	2.22	86.49
		5785	1.92	2.22	86.49
		5825	1.92	2.22	86.49
11N40SISO	Ant1	5190	0.94	1.24	75.81
		5230	0.94	1.24	75.81
		5270	0.94	1.24	75.81
		5310	0.94	1.24	75.81
		5755	0.94	1.24	75.81
		5795	0.94	1.24	75.81
11AC20SISO	Ant1	5180	1.31	1.41	92.91
		5200	1.31	1.41	92.91
		5240	1.32	1.42	92.96
		5260	1.32	1.42	92.96
		5300	1.31	1.41	92.91
		5320	1.31	1.41	92.91
		5745	1.32	1.42	92.96
		5785	1.32	1.42	92.96
		5825	1.32	1.42	92.96
11AC40SISO	Ant1	5190	0.66	0.76	86.84
		5230	0.66	0.75	88.00
		5270	0.65	0.75	86.67
		5310	0.66	0.76	86.84

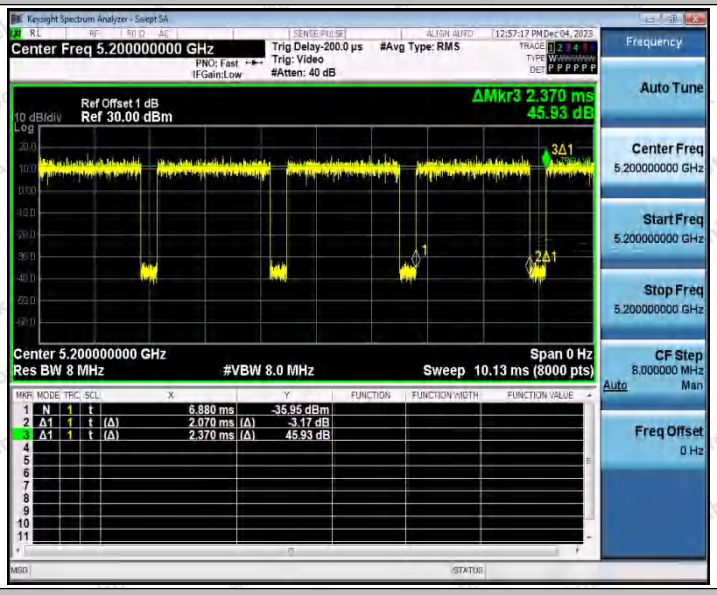
		5755	0.65	0.75	86.67
		5795	0.66	0.76	86.84
11AX20SISO	Ant1	5180	1.02	1.12	91.07
		5200	1.02	1.12	91.07
		5240	1.02	1.12	91.07
		5260	1.02	1.12	91.07
		5300	1.02	1.12	91.07
		5320	1.02	1.12	91.07
		5745	1.02	1.12	91.07
		5785	1.02	1.12	91.07
		5825	1.02	1.12	91.07
11AX40SISO	Ant1	5190	0.54	0.64	84.38
		5230	0.54	0.64	84.38
		5270	0.54	0.64	84.38
		5310	0.54	0.64	84.38
		5755	0.54	0.64	84.38
		5795	0.54	0.64	84.38

Test Graphs

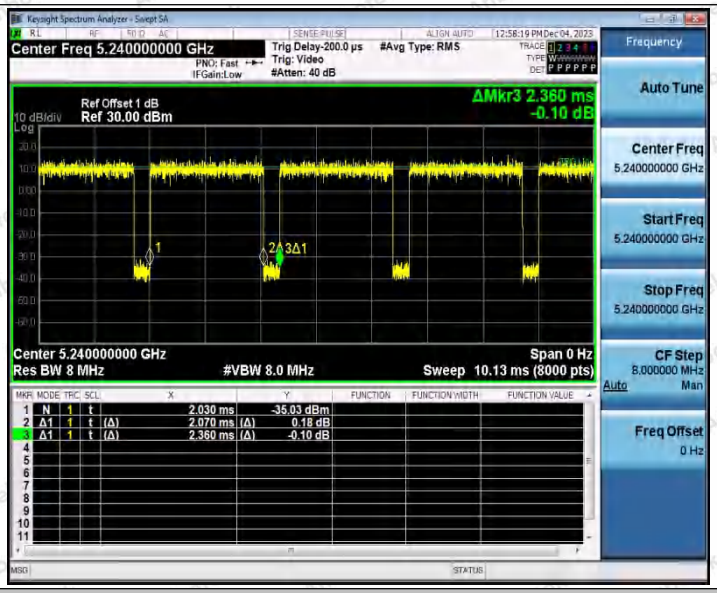
11A_Ant1_5180



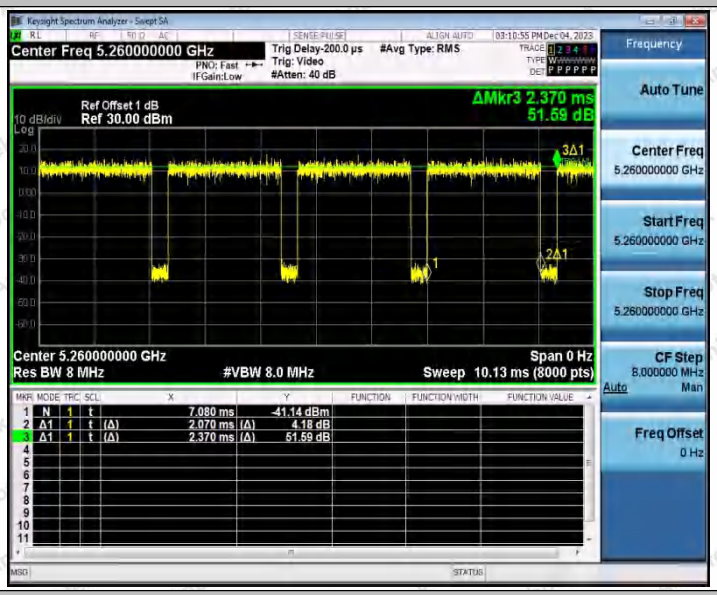
11A_Ant1_5200



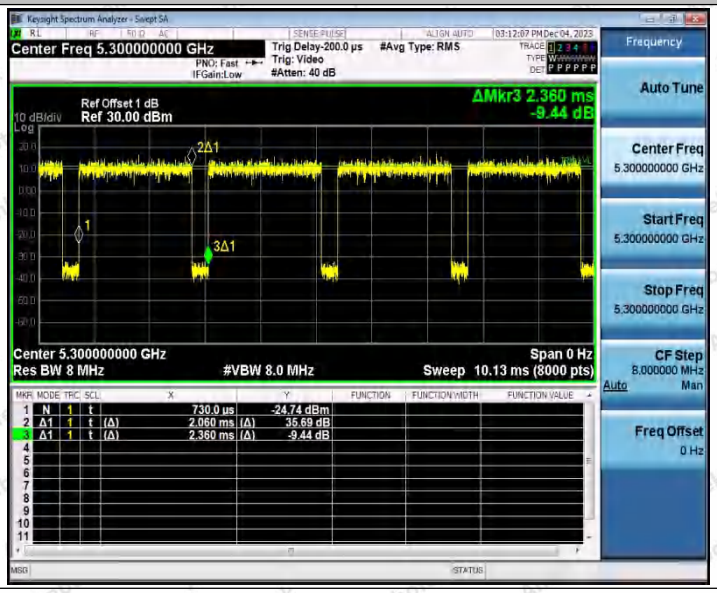
11A_Ant1_5240



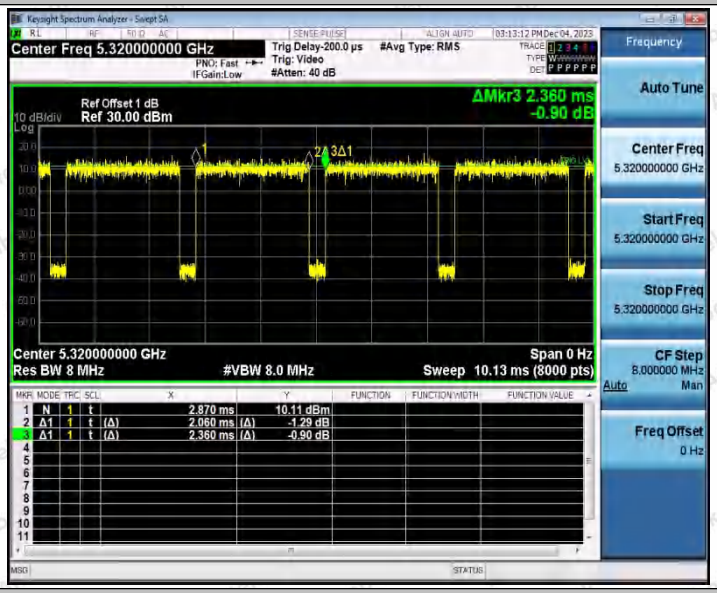
11A_Ant1_5260



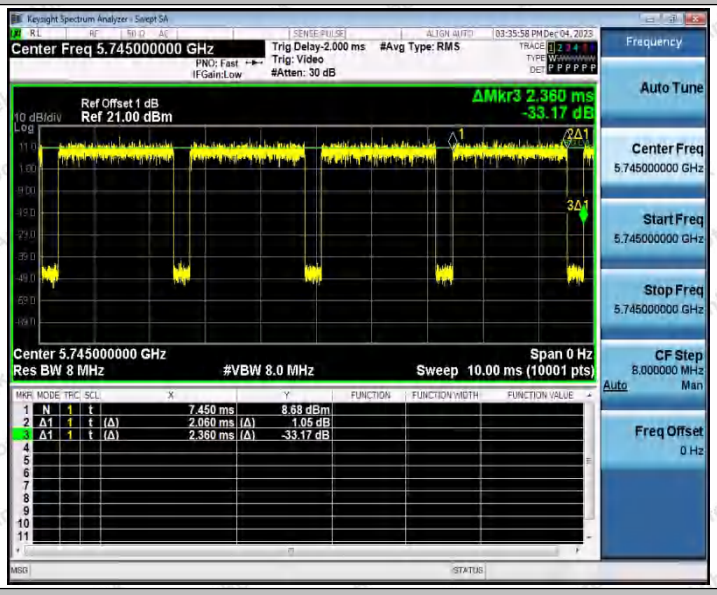
11A_Ant1_5300



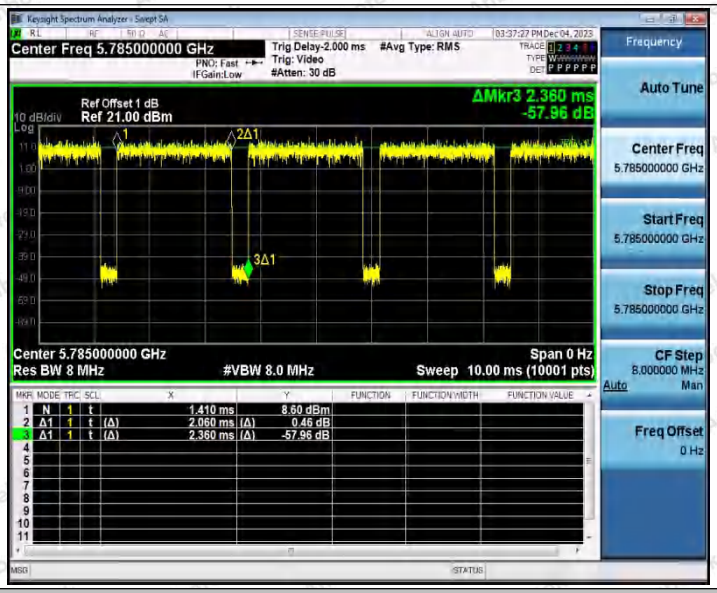
11A_Ant1_5320



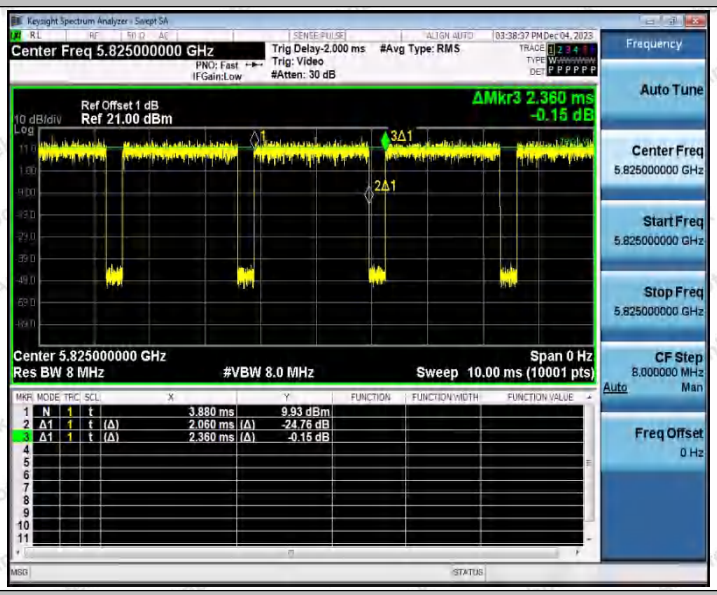
11A_Ant1_5745



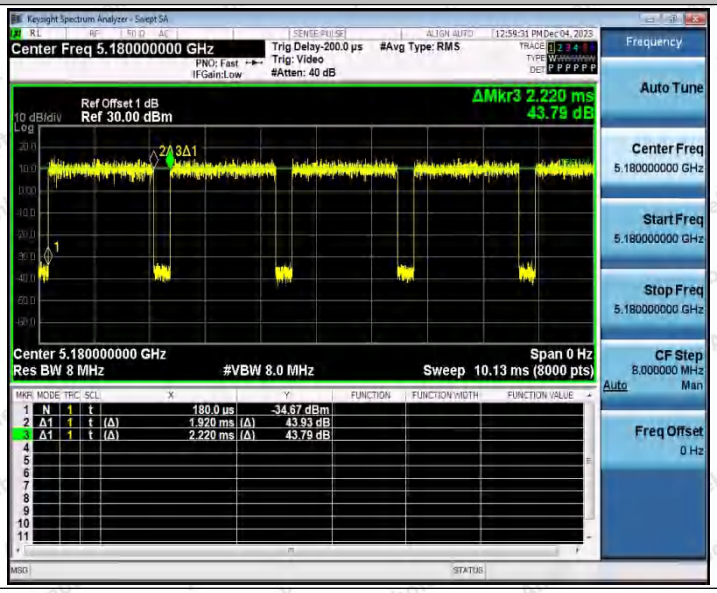
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



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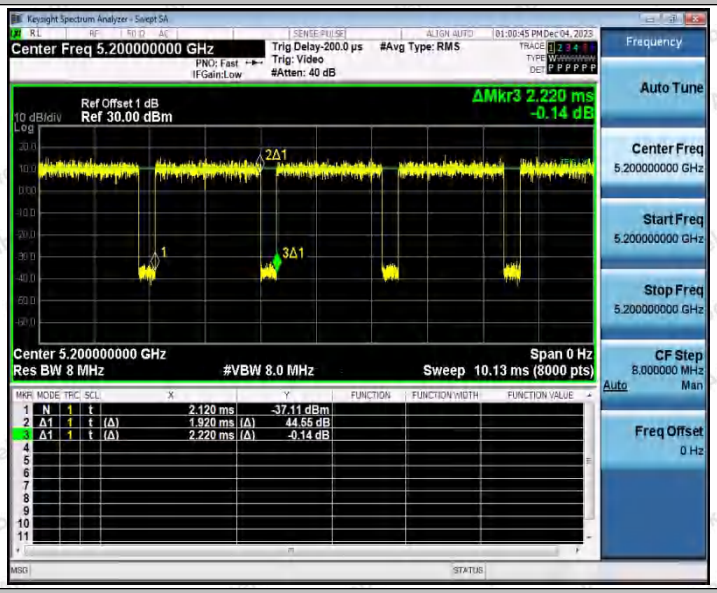

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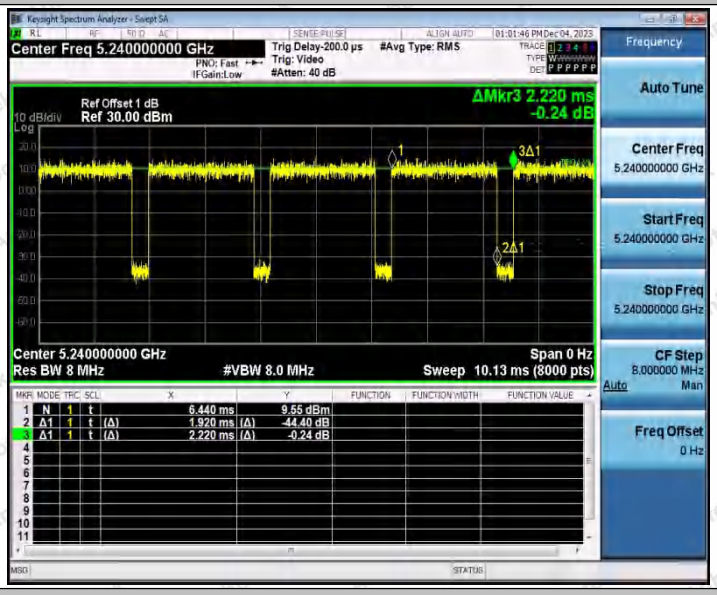

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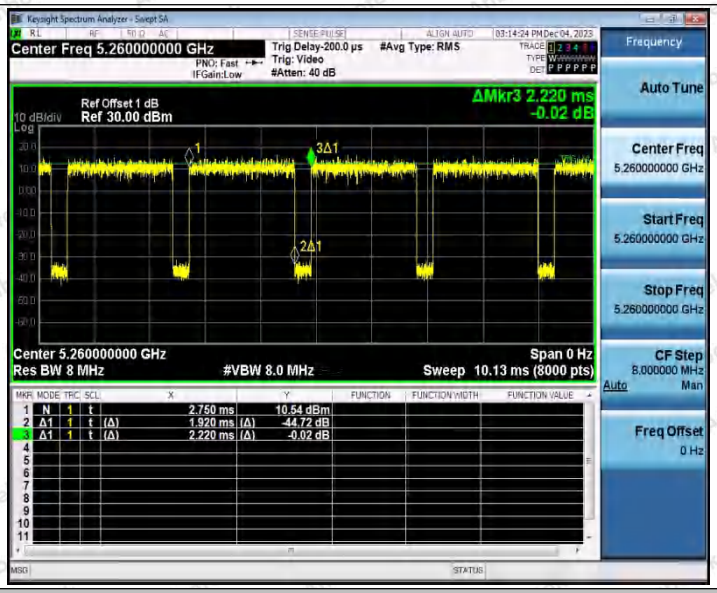

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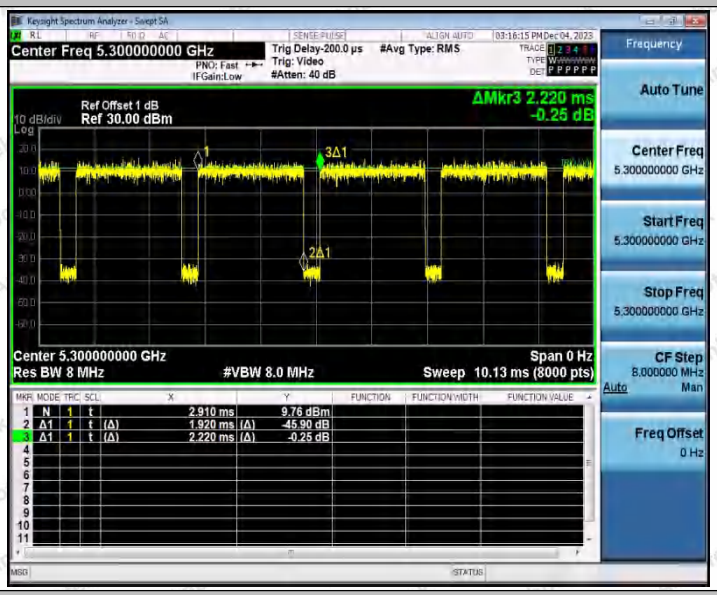

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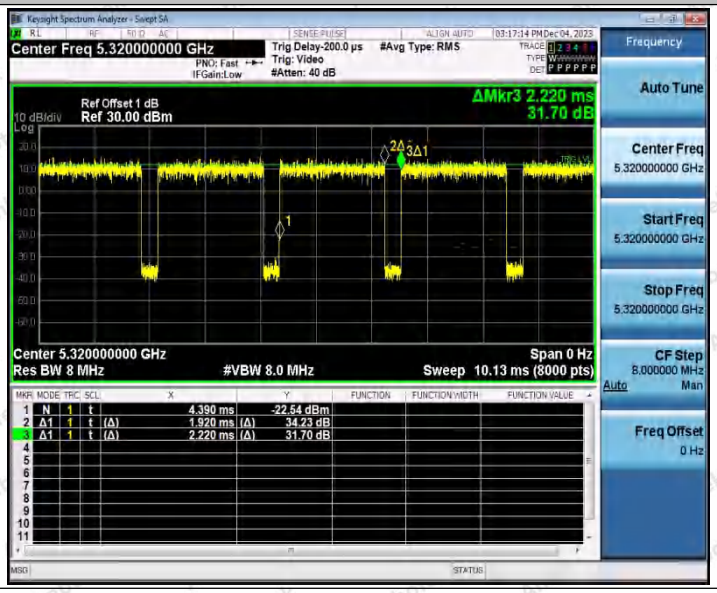
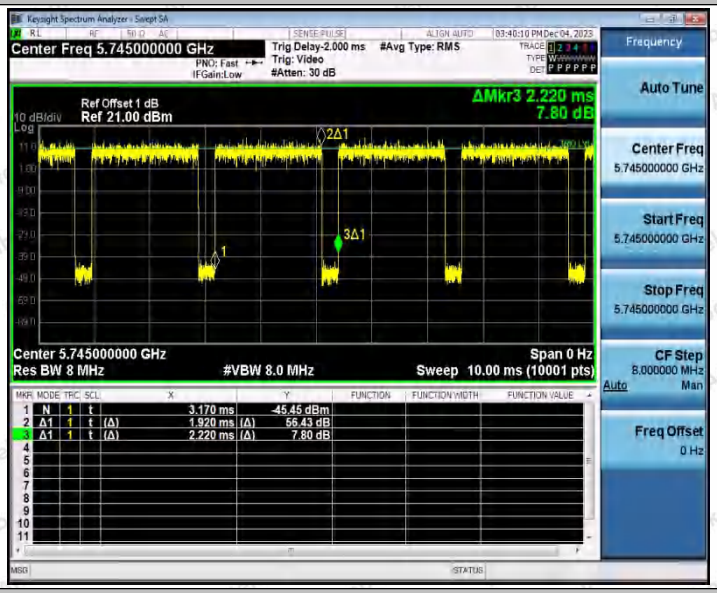
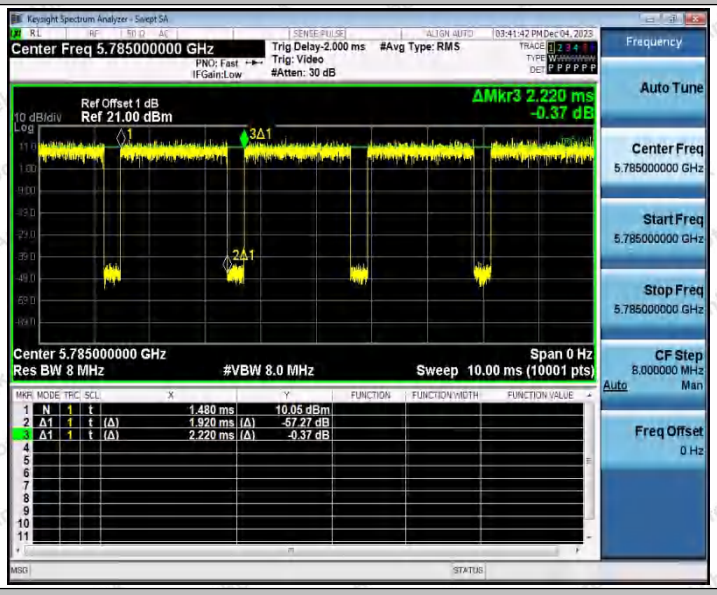


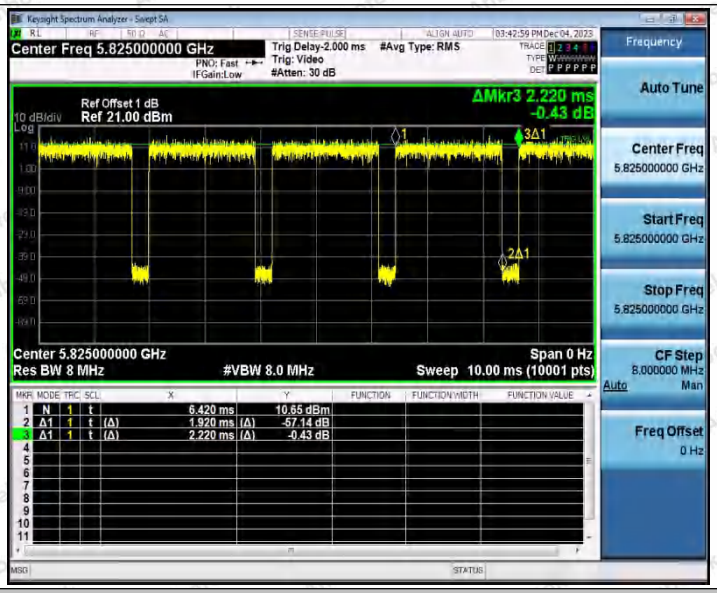
11N20SISO_Ant1_5745



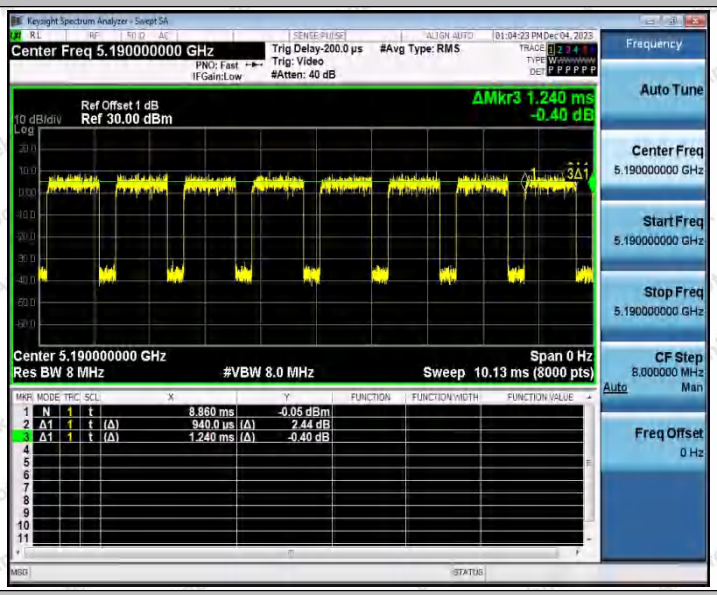
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



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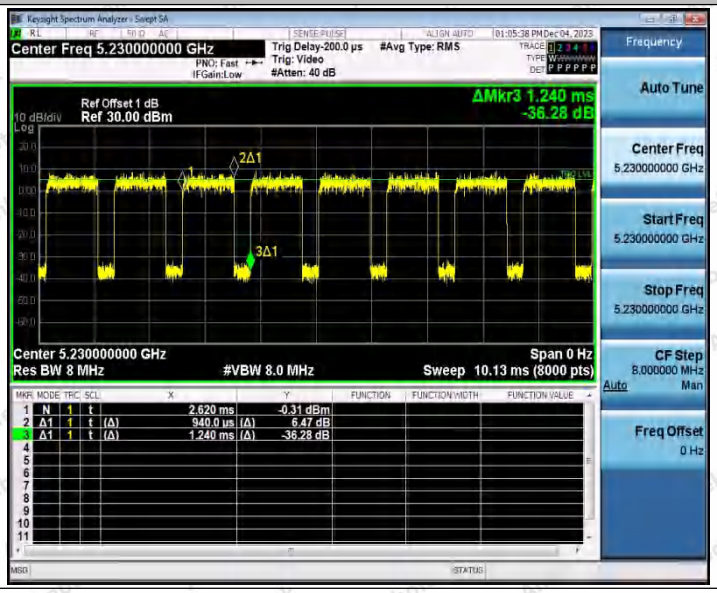

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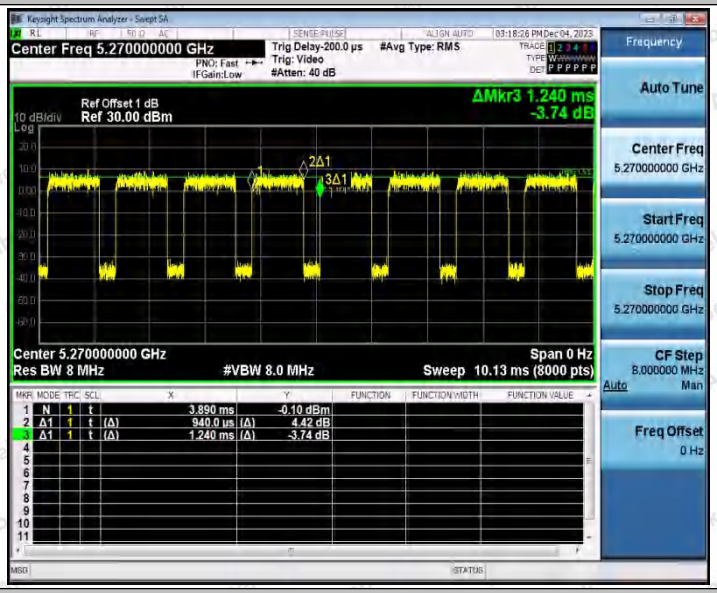

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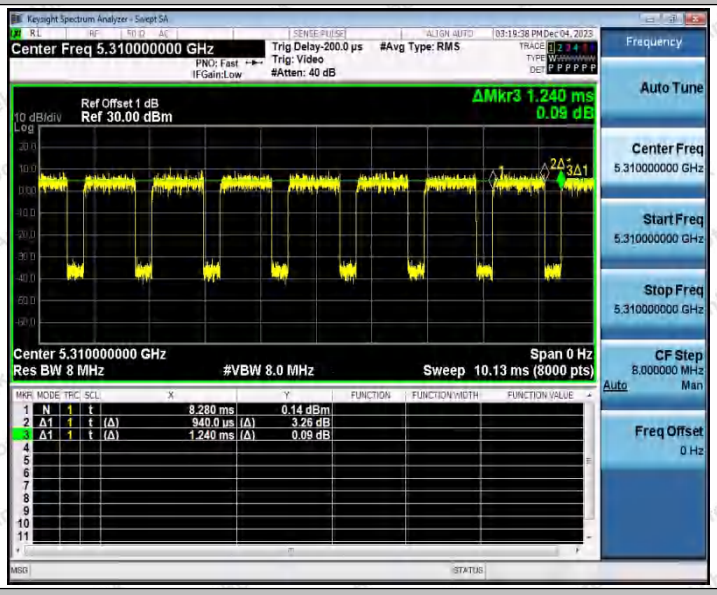

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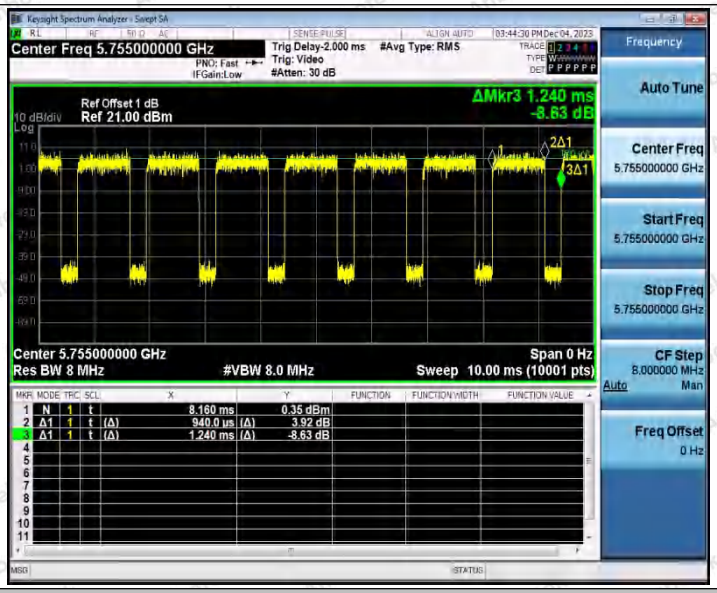

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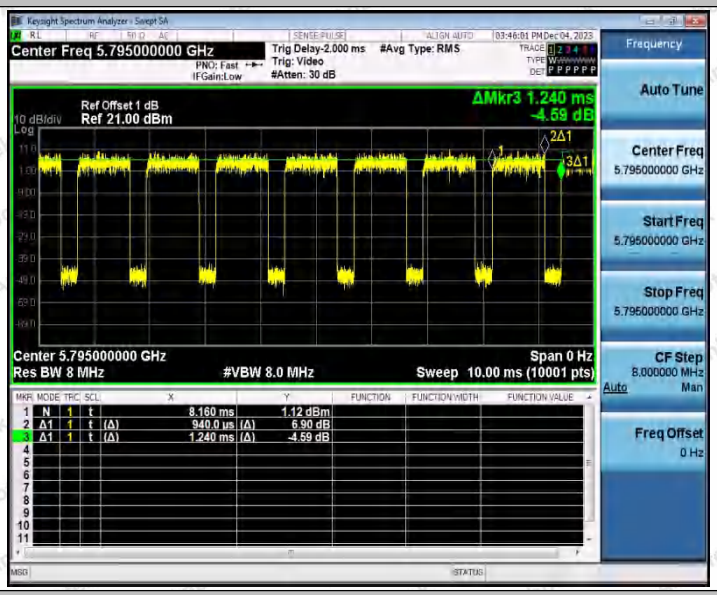
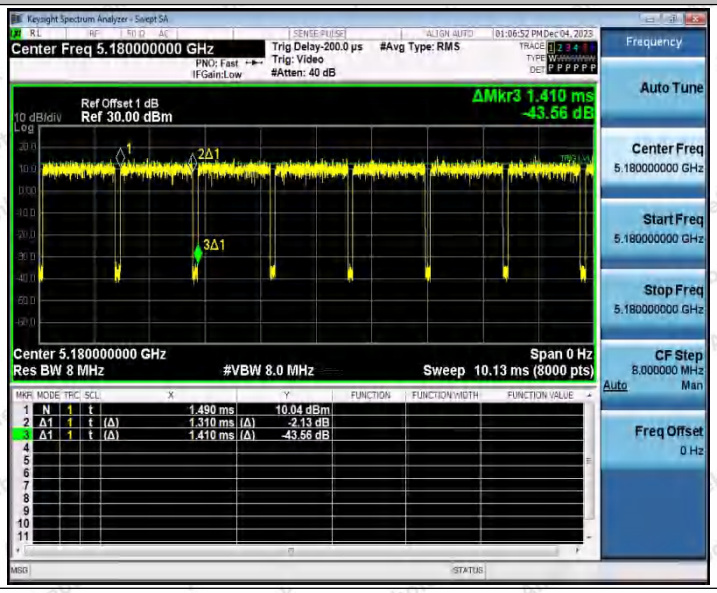


11AC20SISO_Ant1_5180



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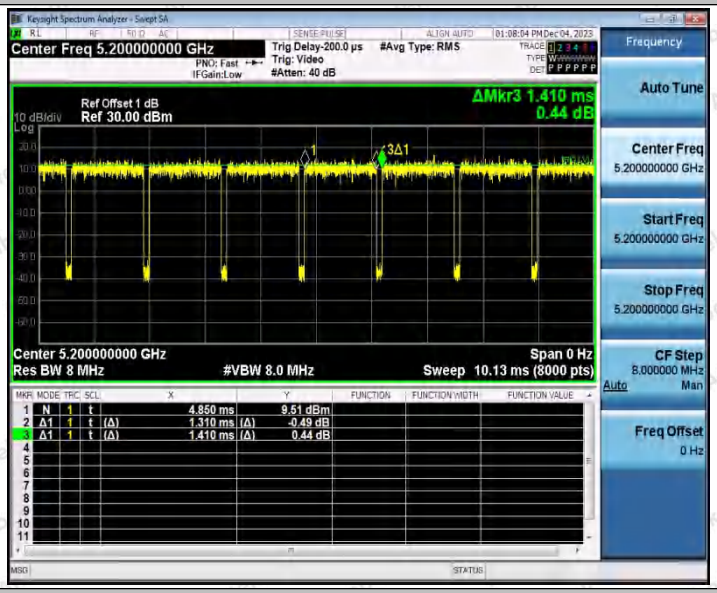

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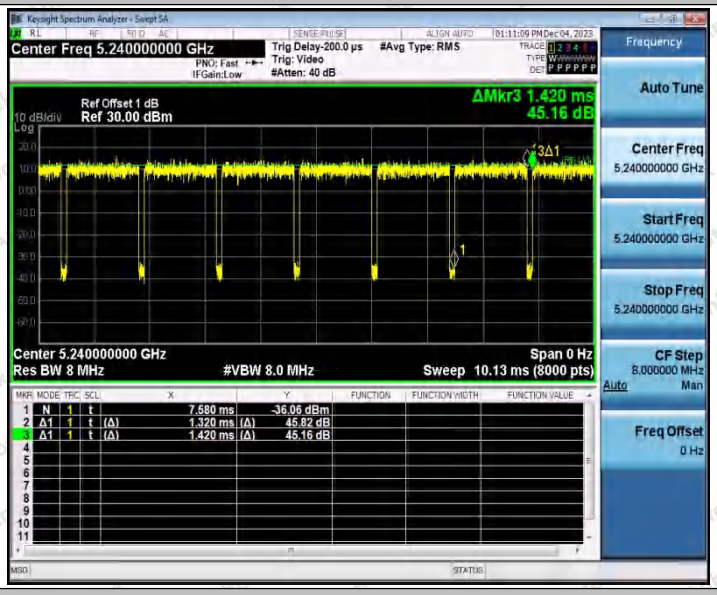

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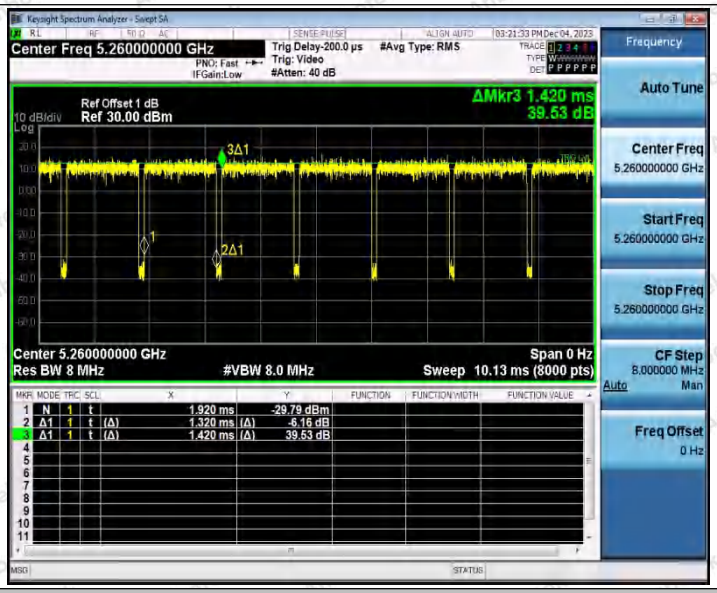

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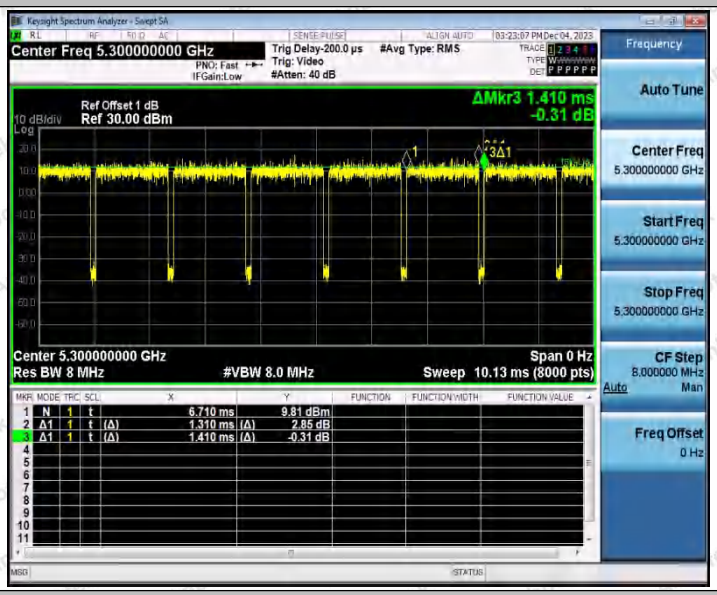

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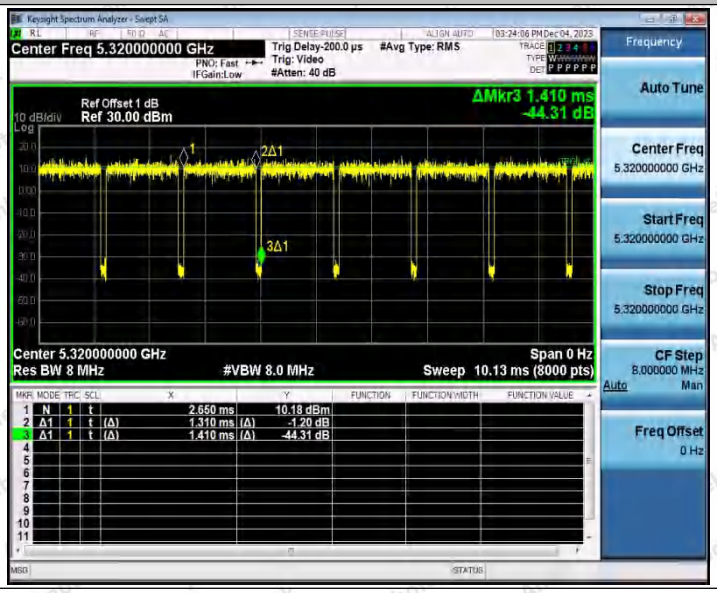

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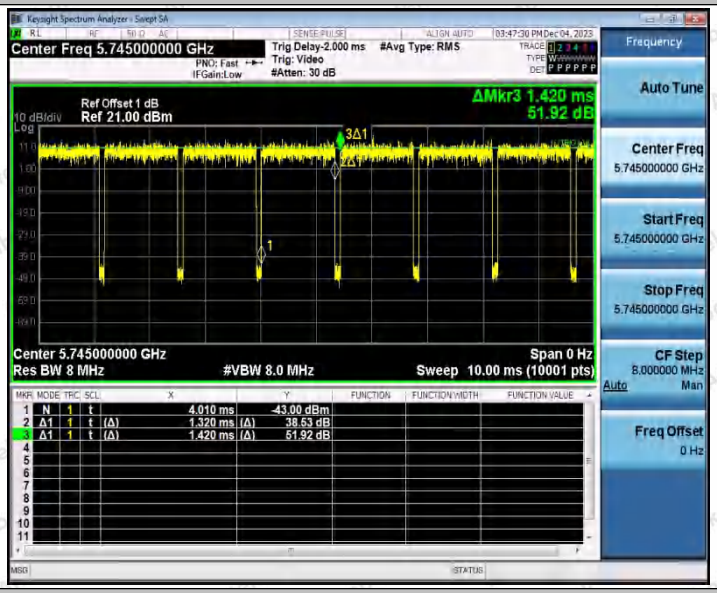

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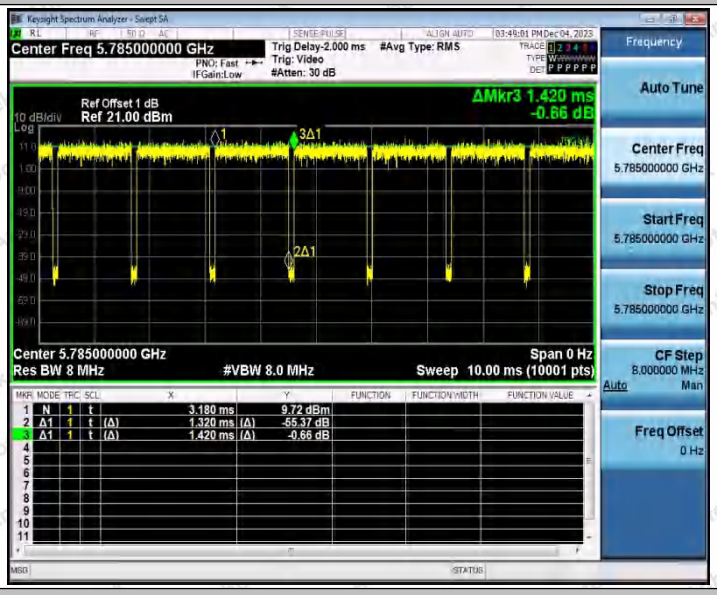

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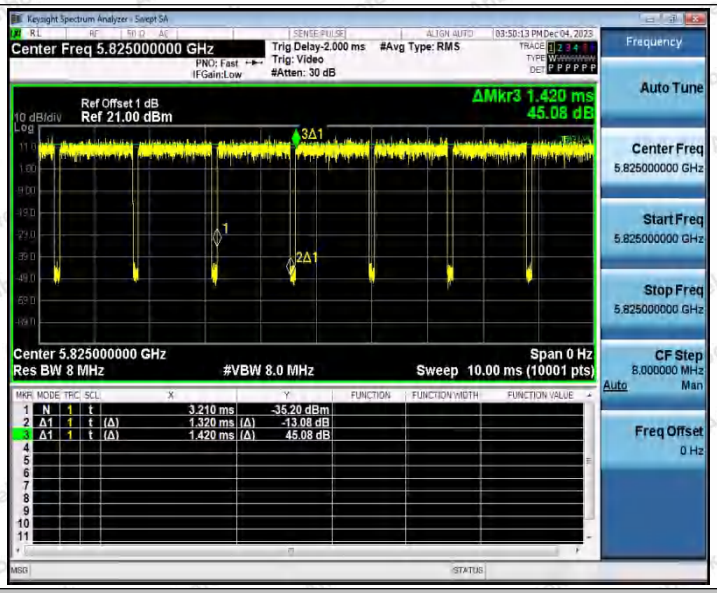

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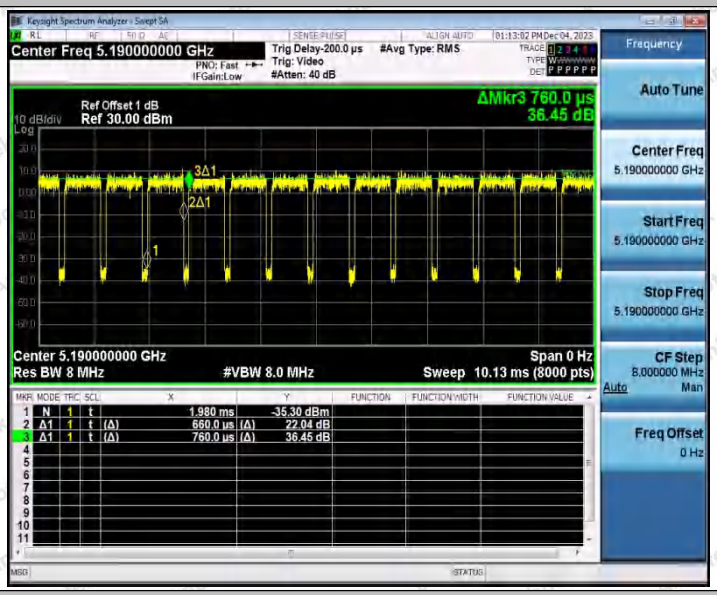

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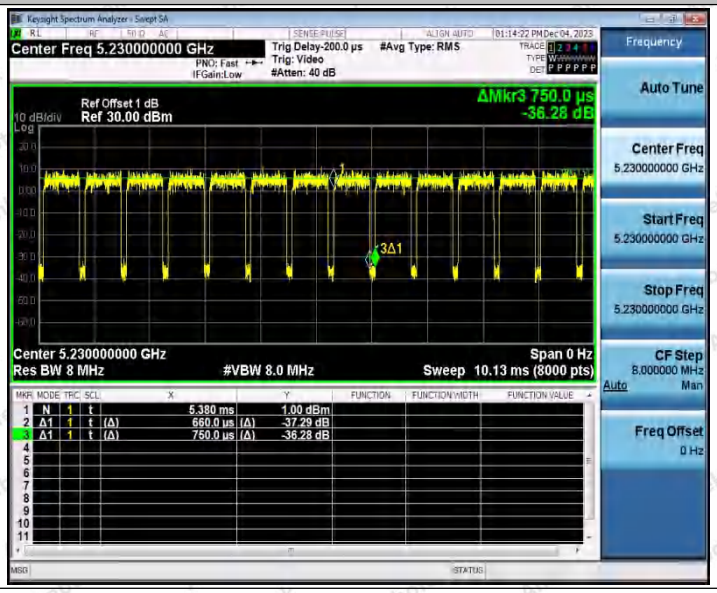

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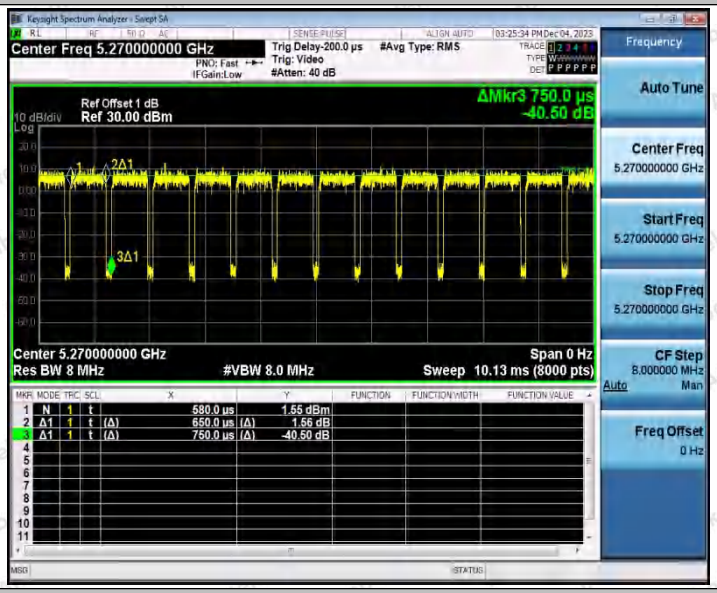

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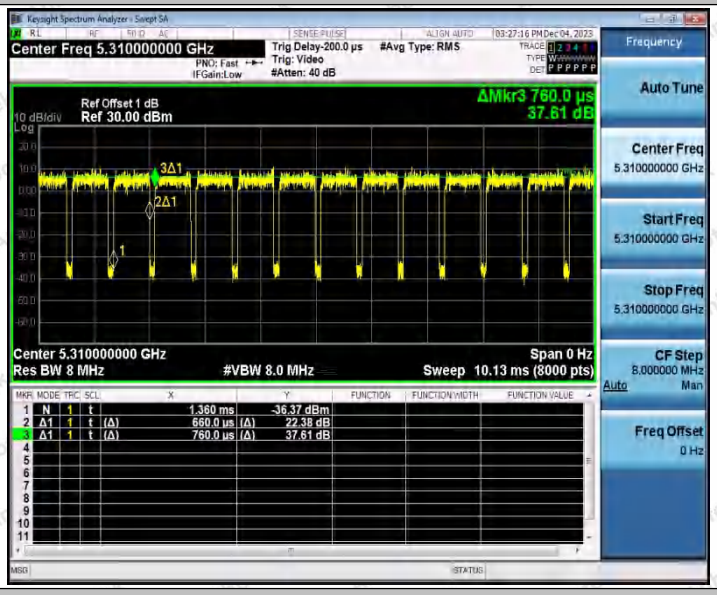

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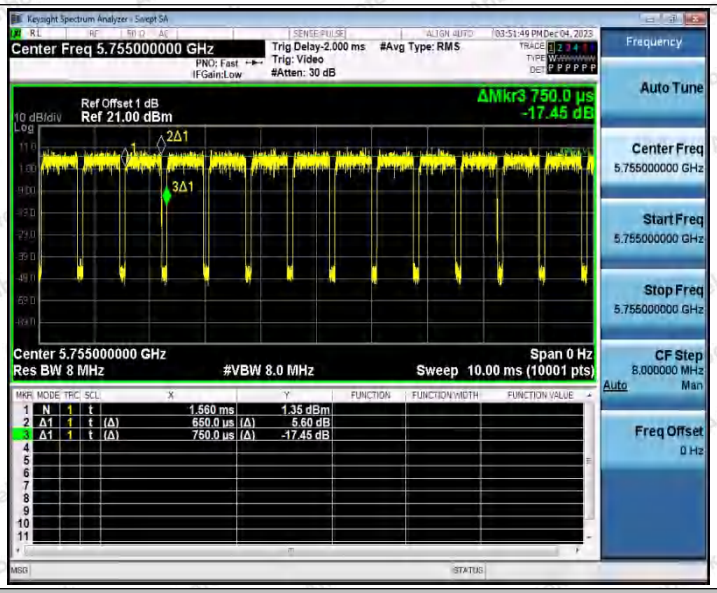

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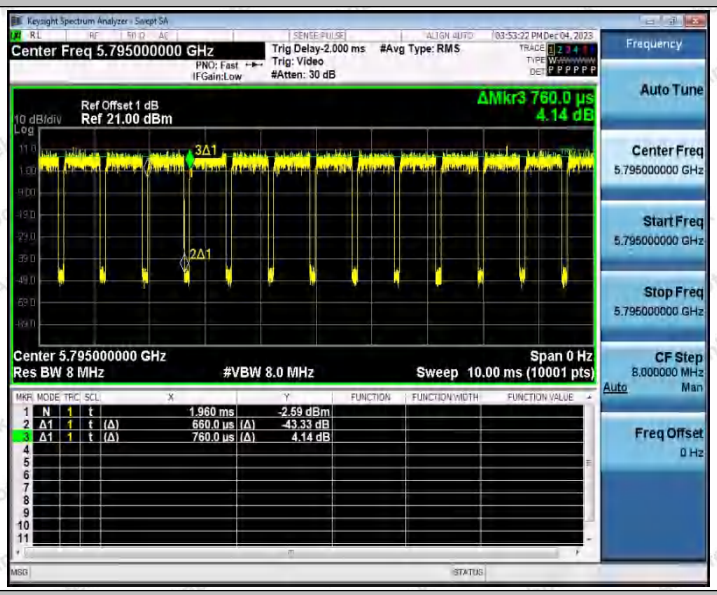

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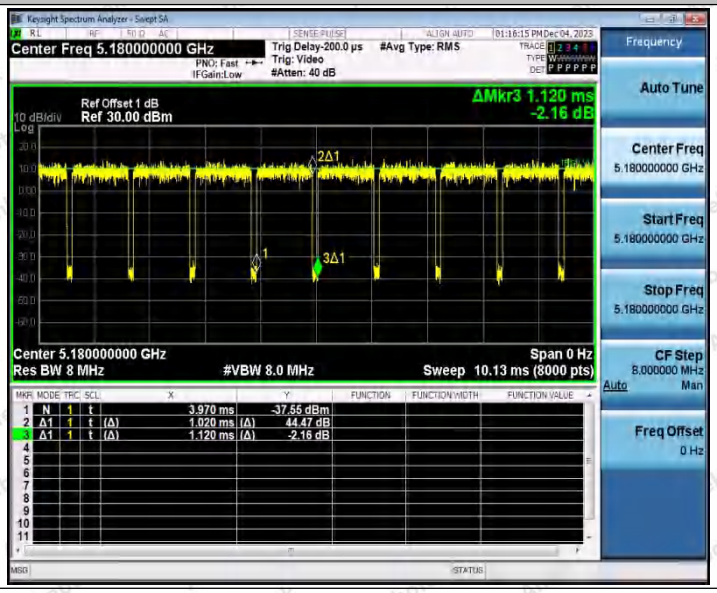

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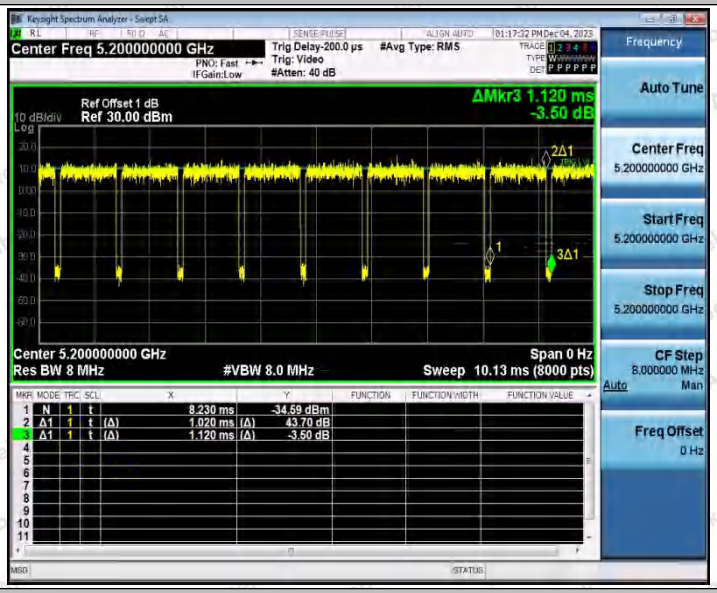

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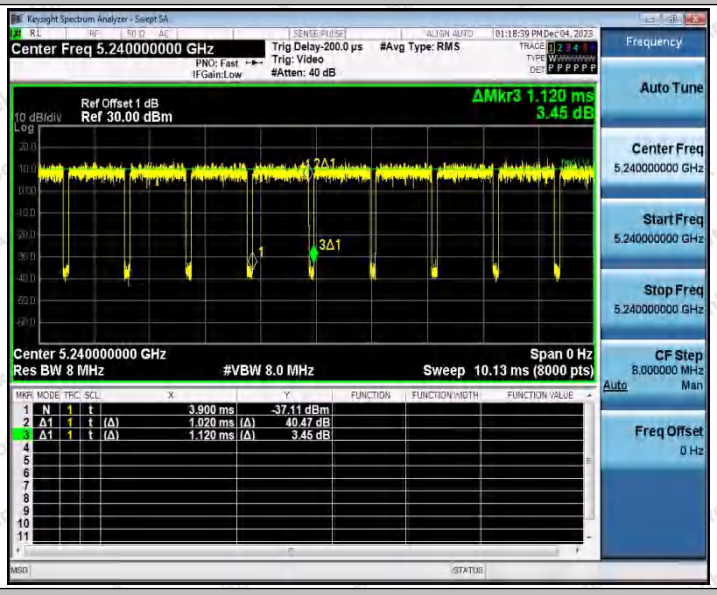

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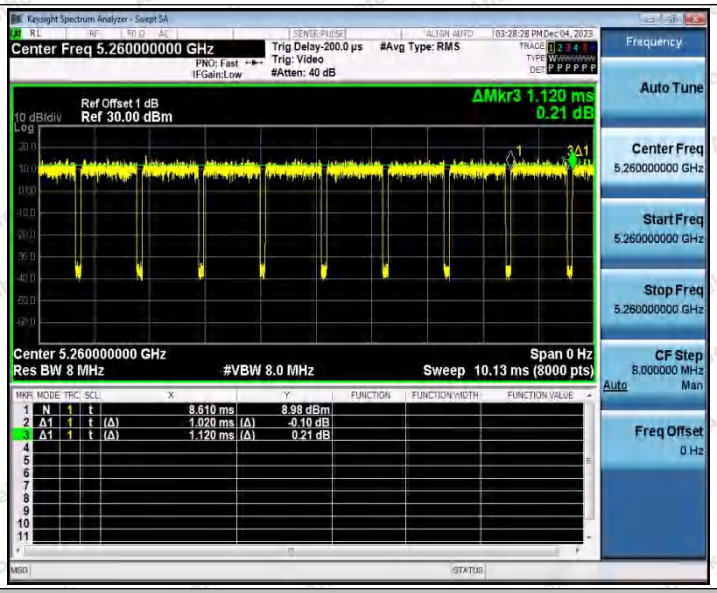

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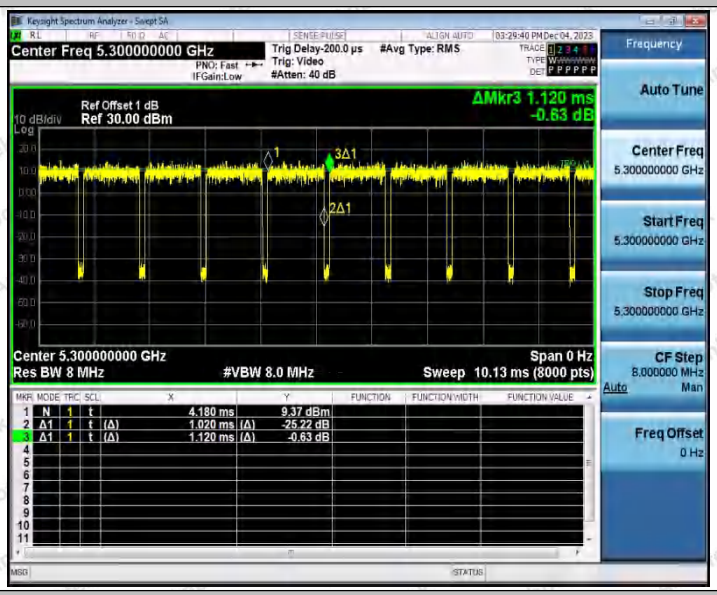

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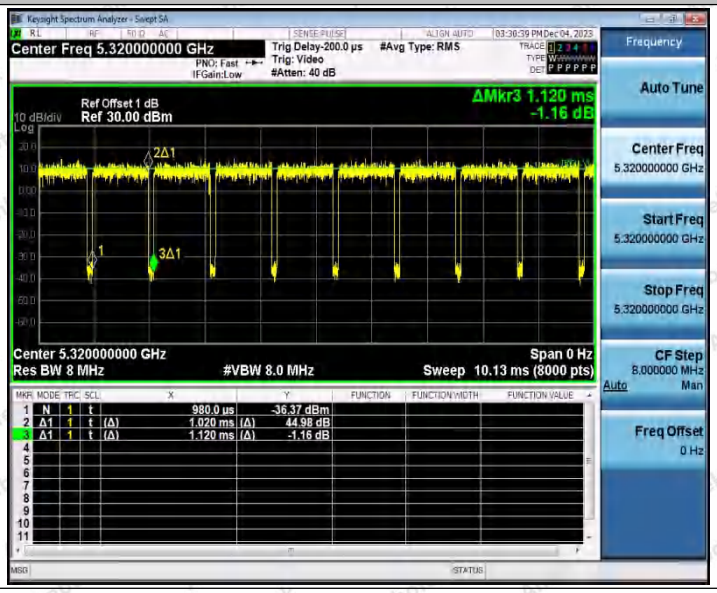

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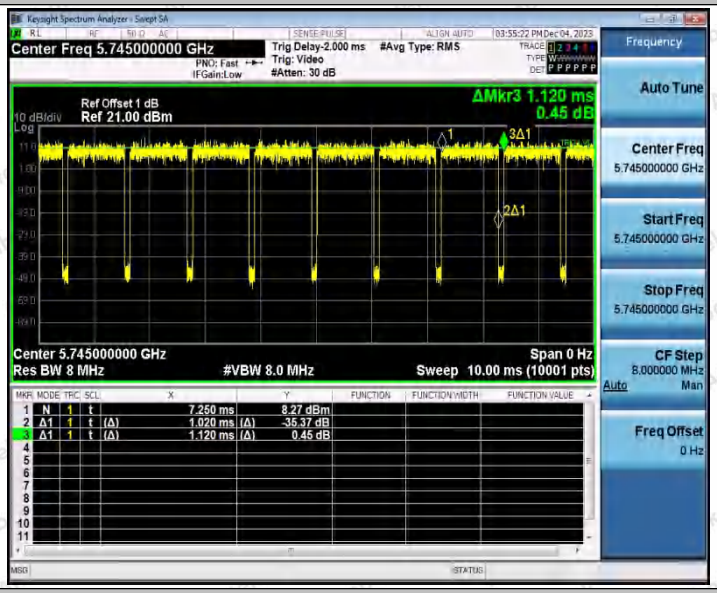

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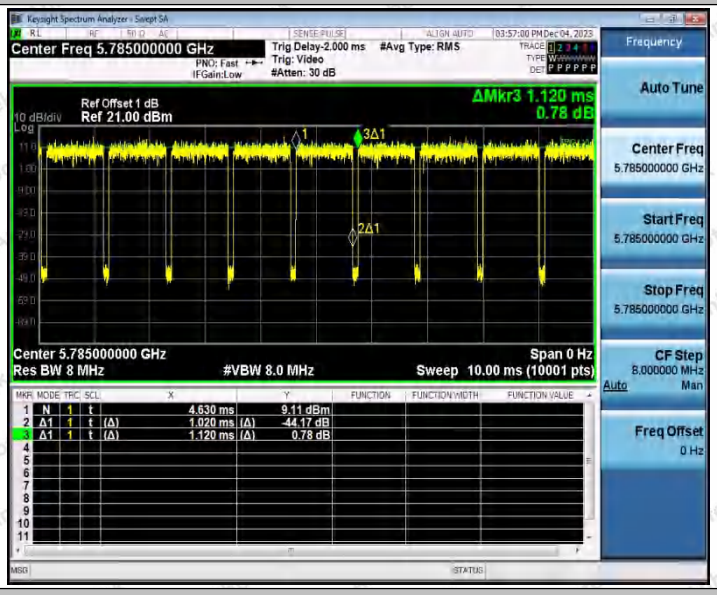

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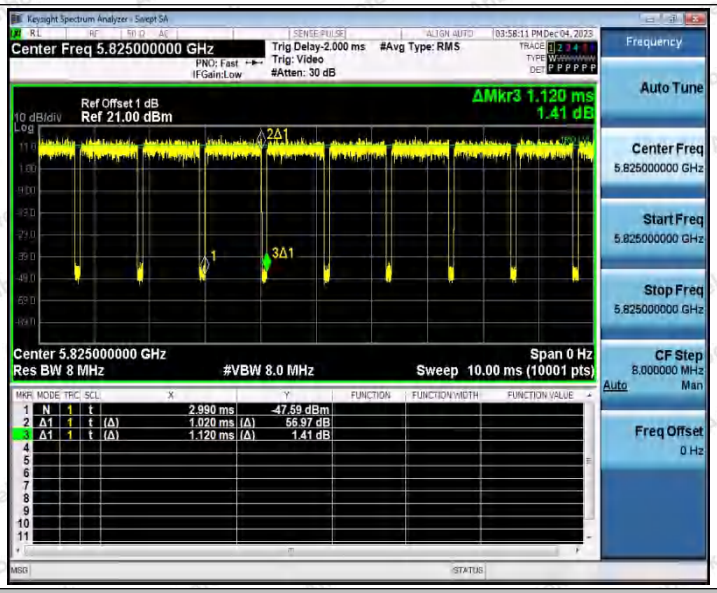

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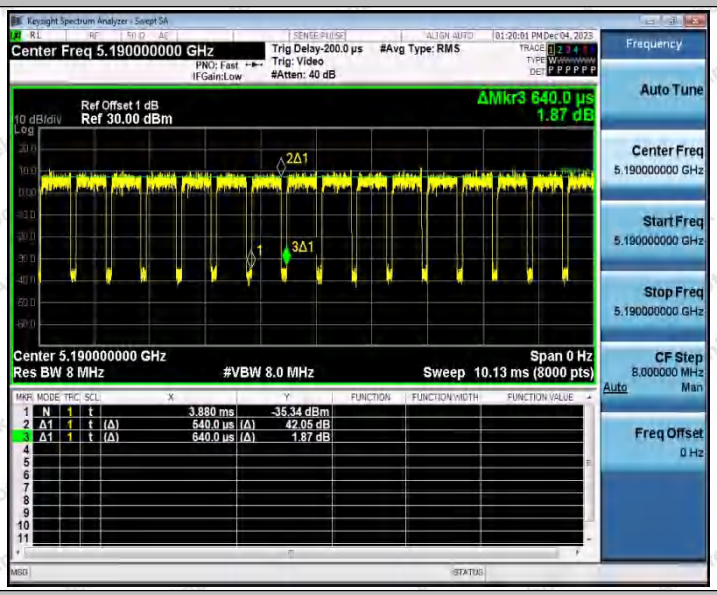

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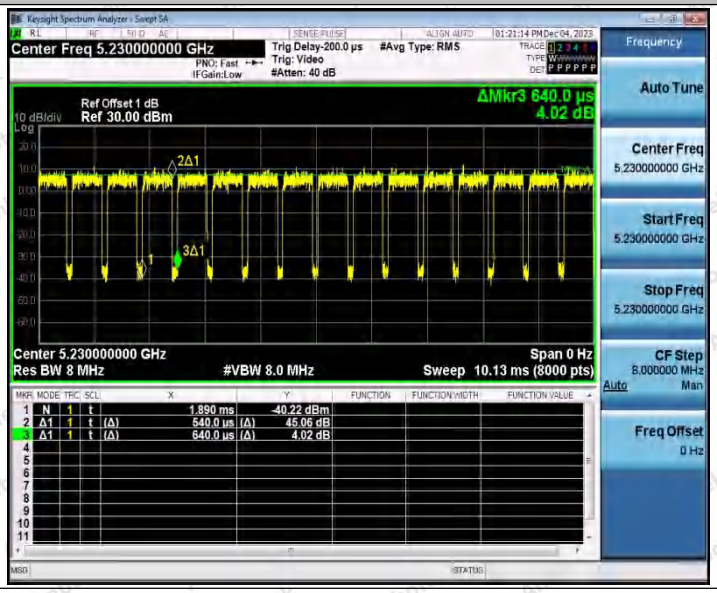

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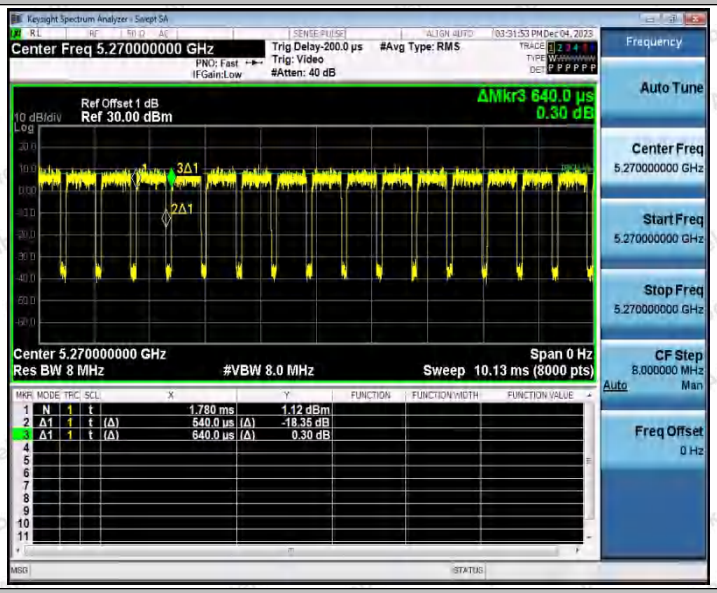

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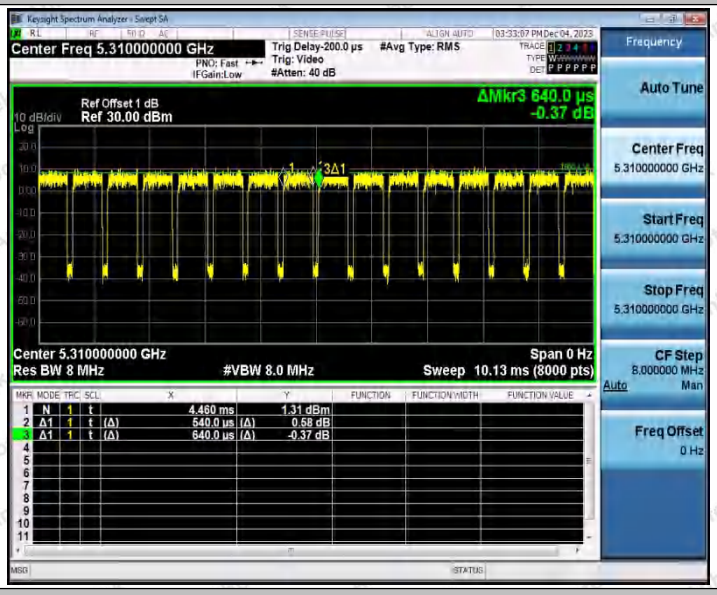

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