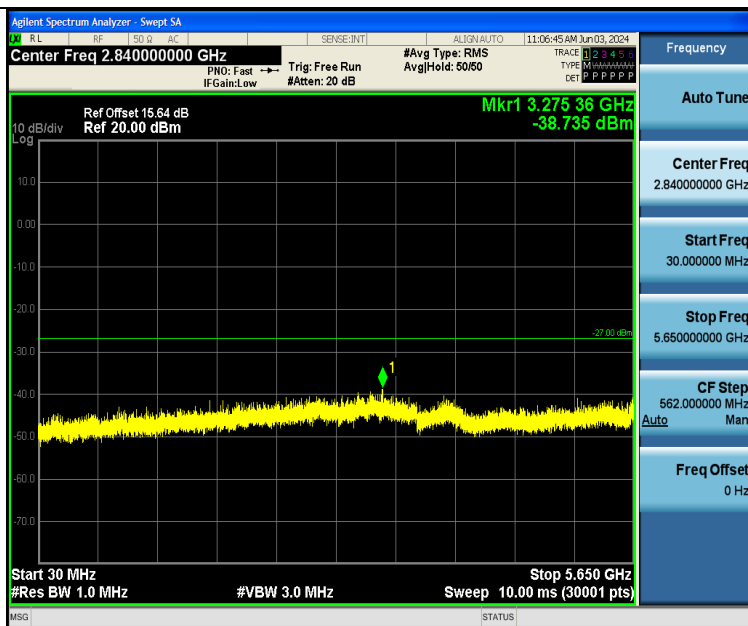
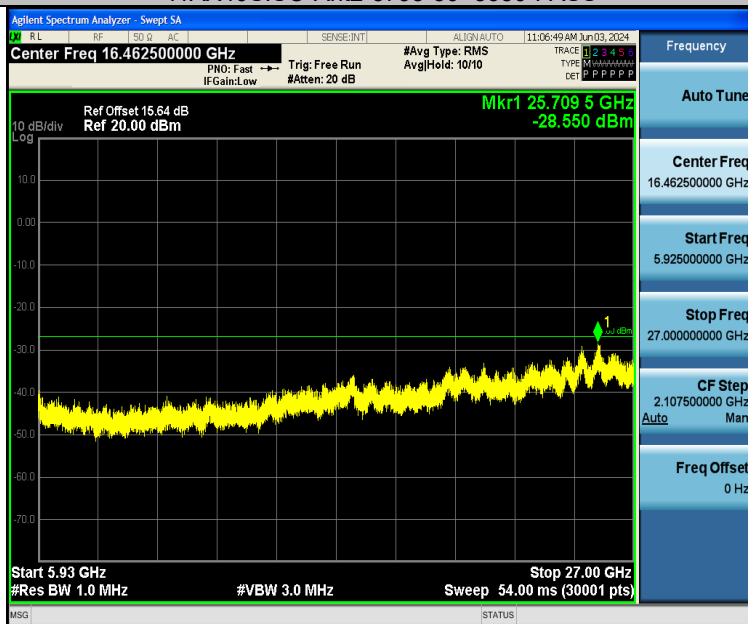
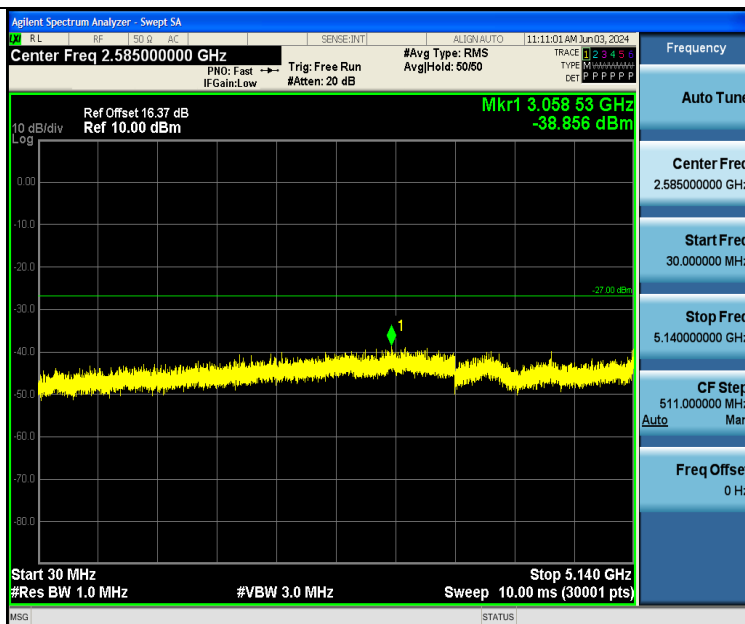




11AX40SISO-Ant2-5795-30~5650-PASS



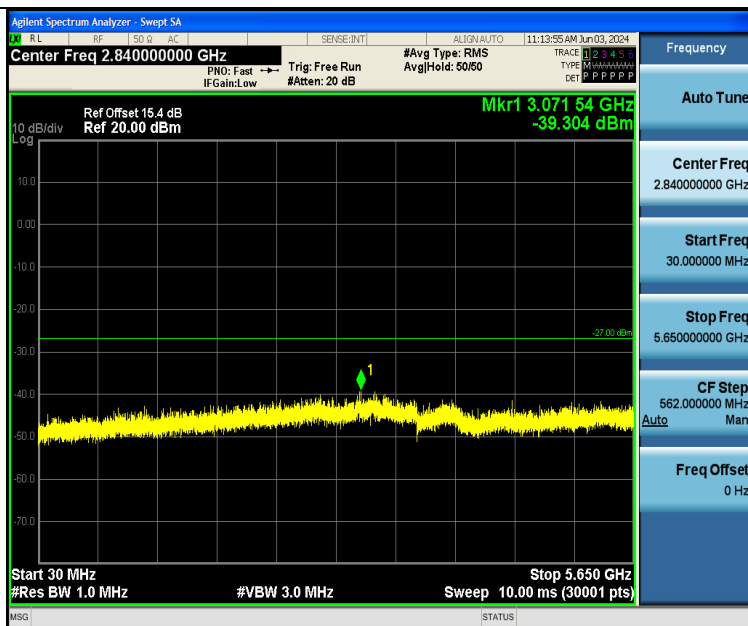
11AX40SISO-Ant2-5795-5925~27000-PASS



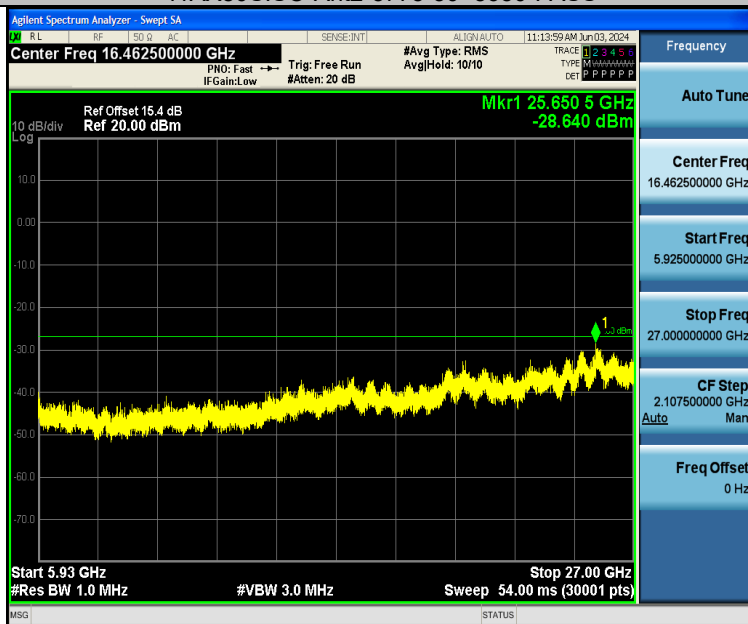
11AX80SISO-Ant2-5210-30~5140-PASS



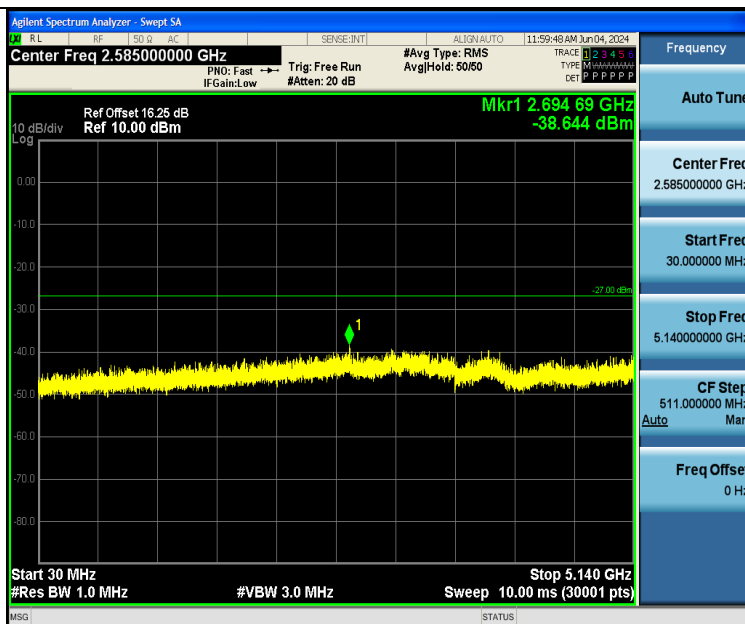
11AX80SISO-Ant2-5210-5360~27000-PASS



11AX80SISO-Ant2-5775-30~5650-PASS



11AX80SISO-Ant2-5775-5925~27000-PASS



11AX20SISO-Ant1-5180-30~5140-PASS



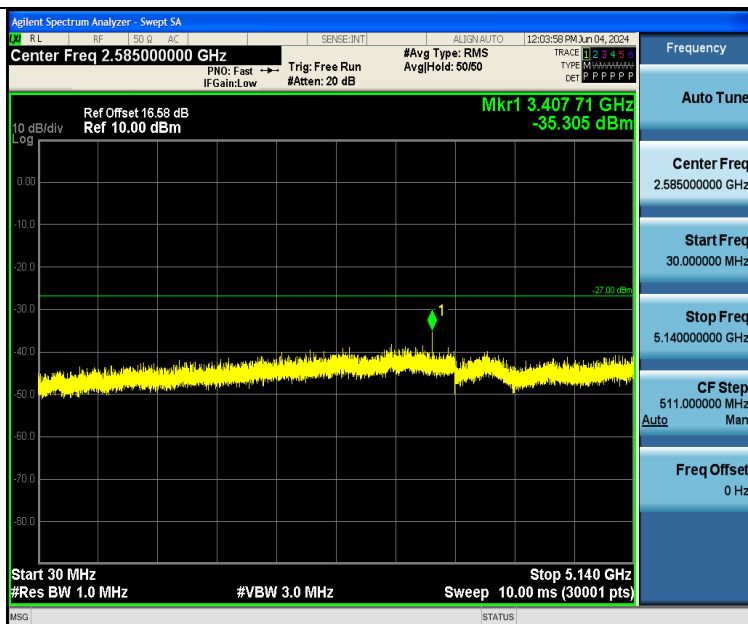
11AX20SISO-Ant1-5180-5360~40000-PASS



11AX20SISO-Ant1-5200-30~5140-PASS



11AX20SISO-Ant1-5200-5360~40000-PASS



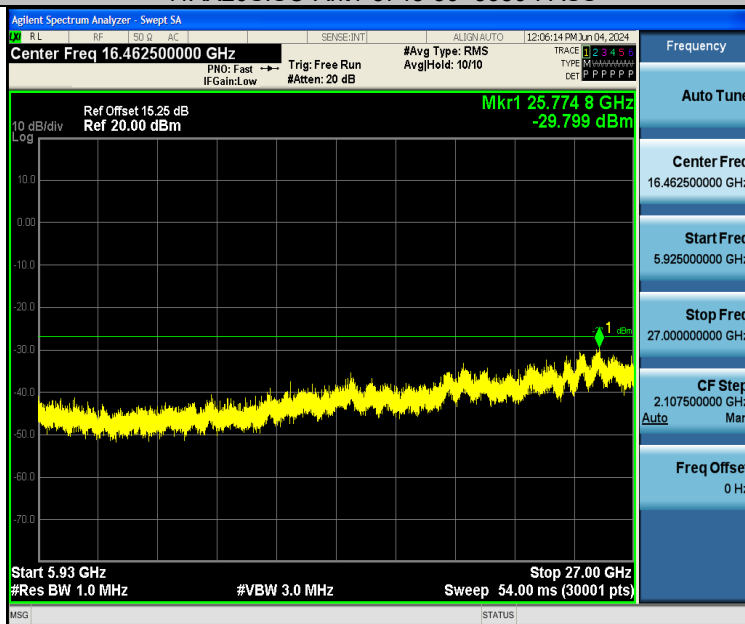
11AX20SISO-Ant1-5240-30~5140-PASS



11AX20SISO-Ant1-5240-5360~40000-PASS



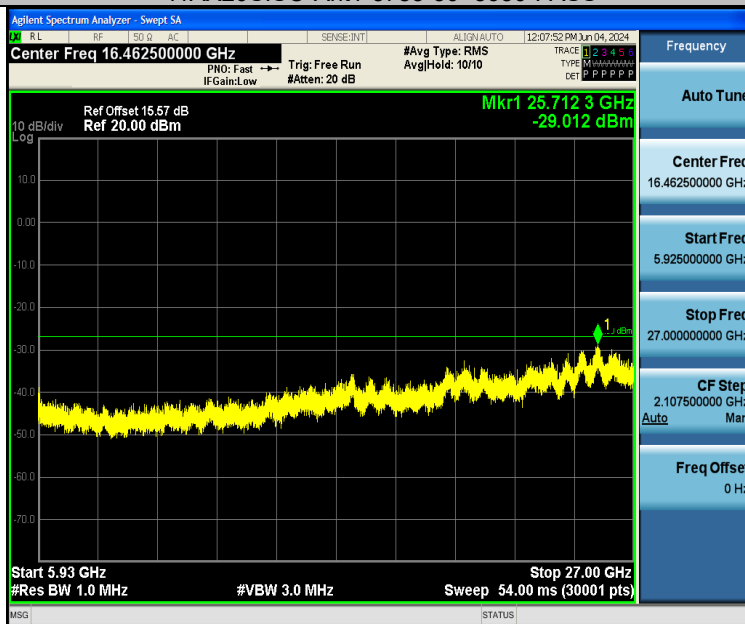
11AX20SISO-Ant1-5745-30~5650-PASS



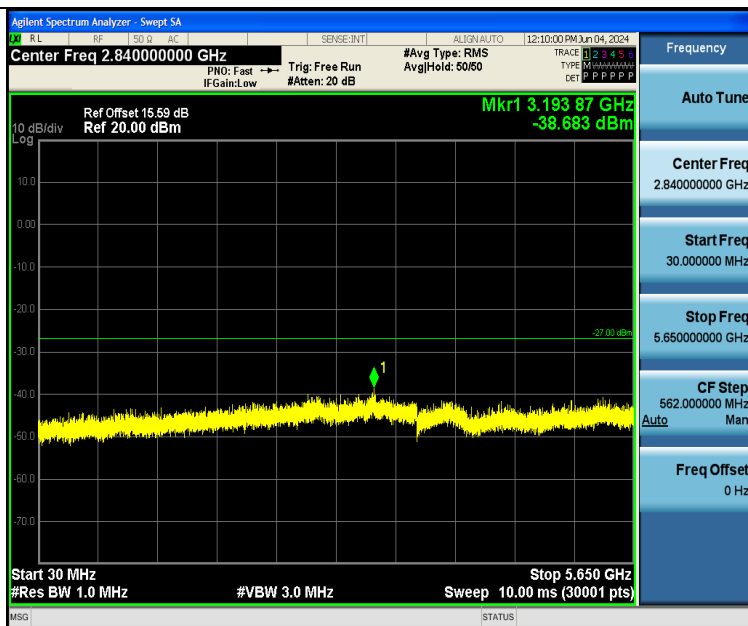
11AX20SISO-Ant1-5745-5925~40000-PASS



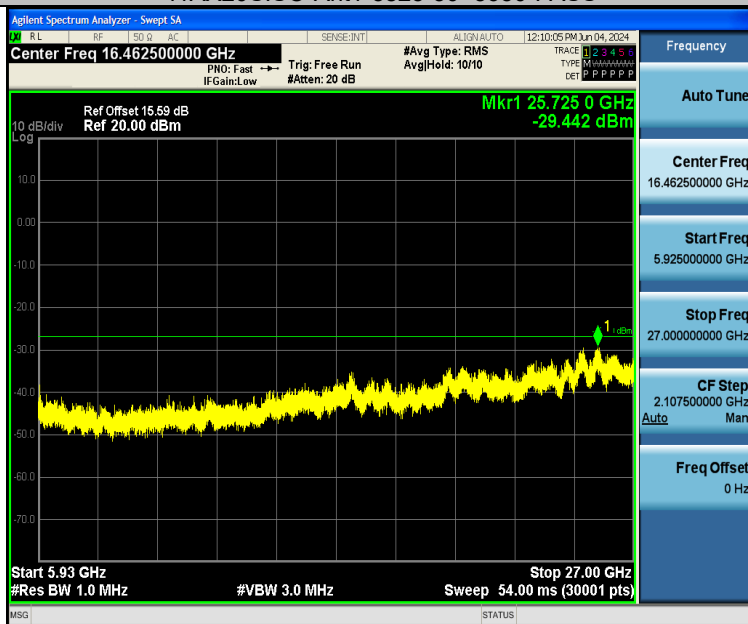
11AX20SISO-Ant1-5785-30~5650-PASS



11AX20SISO-Ant1-5785-5925~40000-PASS



11AX20SISO-Ant1-5825-30~5650-PASS



11AX20SISO-Ant1-5825-5925~40000-PASS



11AX20SISO-Ant2-5180-30~5140-PASS



11AX20SISO-Ant2-5180-5360~40000-PASS



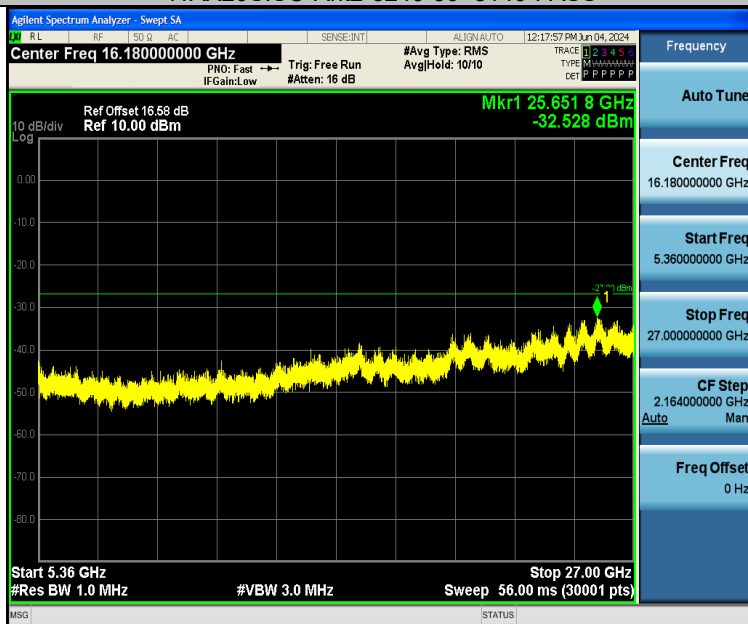
11AX20SISO-Ant2-5200-30~5140-PASS



11AX20SISO-Ant2-5200-5360~40000-PASS



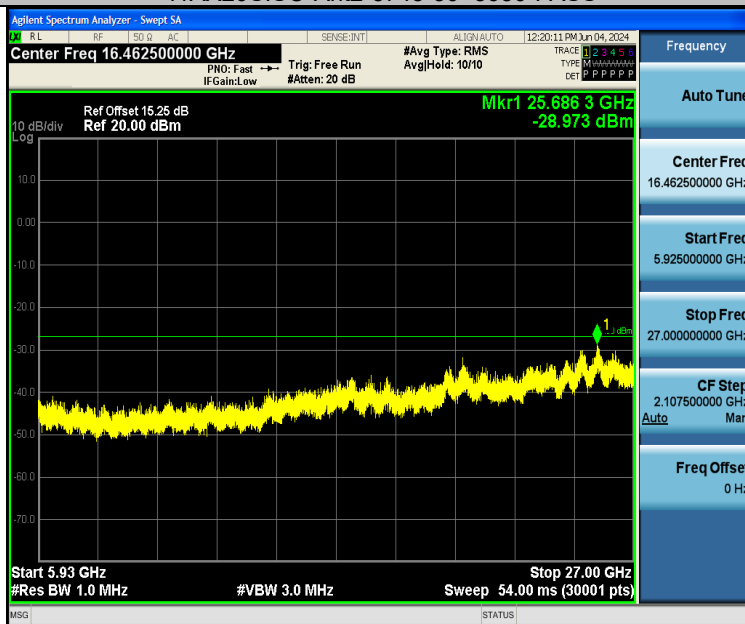
11AX20SISO-Ant2-5240-30~5140-PASS



11AX20SISO-Ant2-5240-5360~40000-PASS



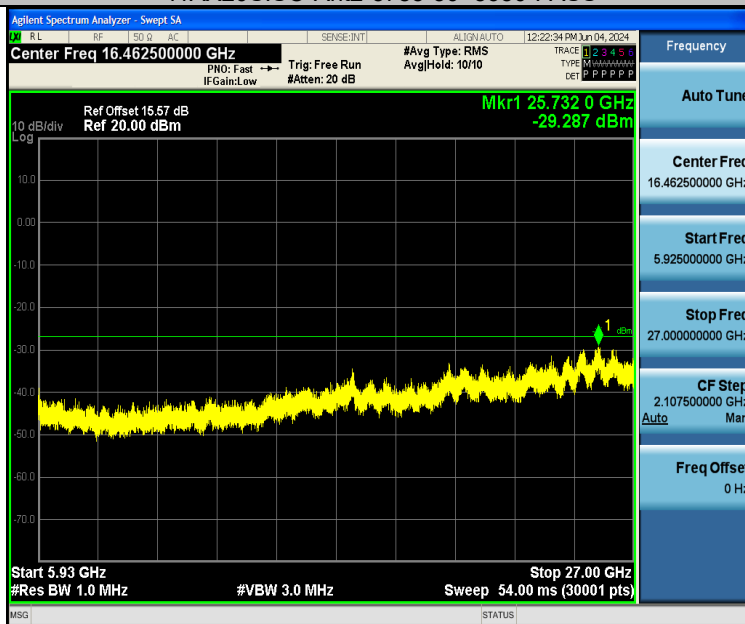
11AX20SISO-Ant2-5745-30~5650-PASS



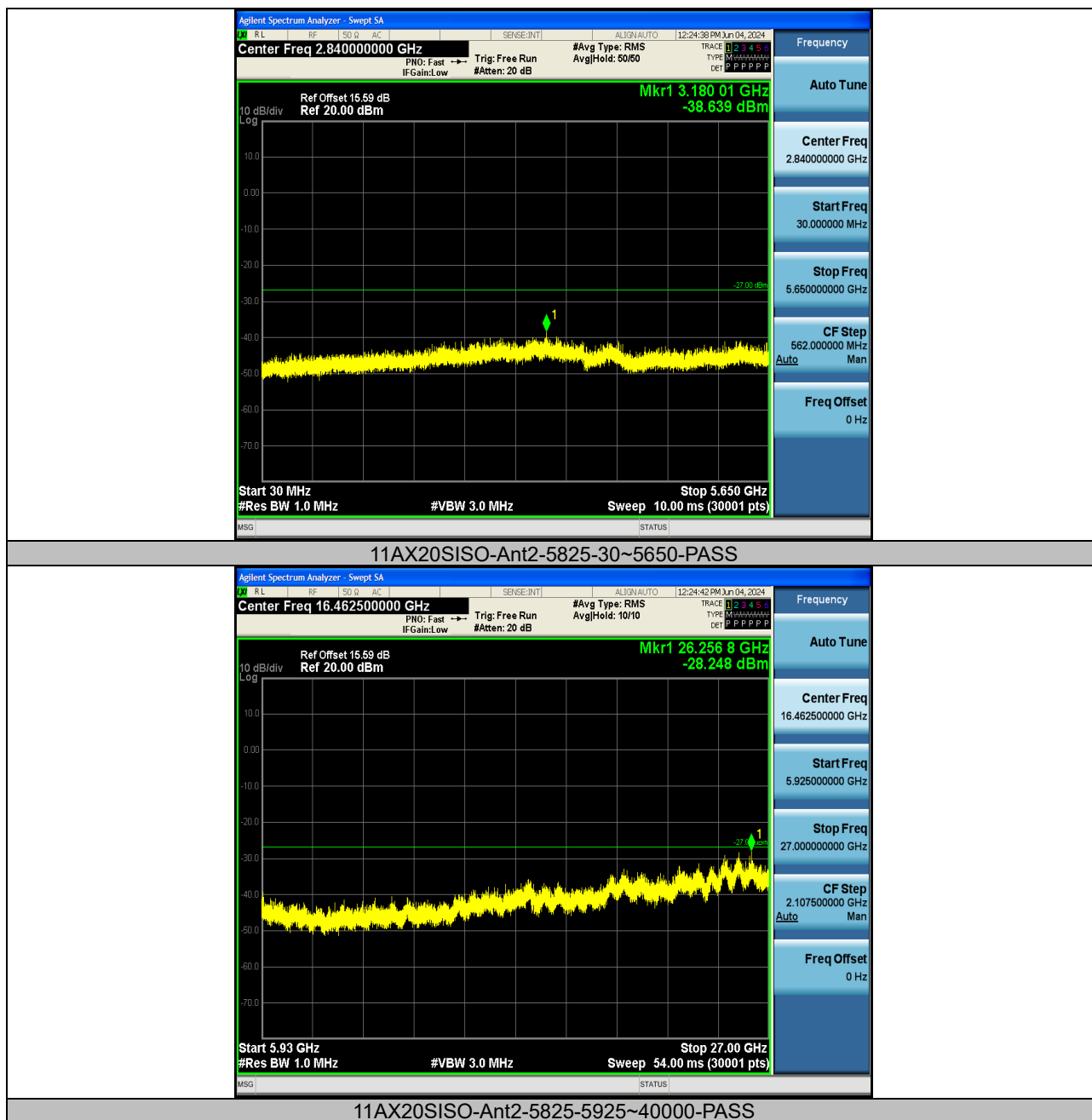
11AX20SISO-Ant2-5745-5925~40000-PASS



11AX20SISO-Ant2-5785-30~5650-PASS



11AX20SISO-Ant2-5785-5925~40000-PASS



Note: 27~40GHz at least have 20dB margin. No recording in the test report.



6.6 Band edge measurements

Test Result:

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-40.39	≤ -27	PASS
11A	Ant2	Low	5180	-40.77	≤ -27	PASS
11A	Ant1	High	5240	-39.65	≤ -27	PASS
11A	Ant2	High	5240	-39.88	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-40.2	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-40.35	≤ -27	PASS
11N20SISO	Ant1	High	5240	-39.61	≤ -27	PASS
11N20SISO	Ant2	High	5240	-40.06	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-39.76	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-38.89	≤ -27	PASS
11N40SISO	Ant1	High	5230	-40.32	≤ -27	PASS
11N40SISO	Ant2	High	5230	-40.2	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-40.42	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-40.57	≤ -27	PASS
11AC20SISO	Ant1	High	5240	-39.98	≤ -27	PASS
11AC20SISO	Ant2	High	5240	-39.96	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-41.02	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-41.04	≤ -27	PASS
11AC40SISO	Ant1	High	5230	-40.42	≤ -27	PASS
11AC40SISO	Ant2	High	5230	-40.94	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-40.11	≤ -27	PASS
11AC80SISO	Ant1	High	5210	-39.96	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-32.86	≤ -27	PASS
11AC80SISO	Ant2	High	5210	-39.7	≤ -27	PASS
11AX40SISO	Ant1	Low	5190	-39.76	≤ -27	PASS
11AX40SISO	Ant1	High	5230	-39.9	≤ -27	PASS
11AX80SISO	Ant1	Low	5210	-40.74	≤ -27	PASS
11AX80SISO	Ant1	High	5210	-39.34	≤ -27	PASS
11AX40SISO	Ant2	Low	5190	-40.31	≤ -27	PASS
11AX40SISO	Ant2	High	5230	-40.29	≤ -27	PASS
11AX80SISO	Ant2	Low	5210	-40.01	≤ -27	PASS
11AX80SISO	Ant2	High	5210	-40.22	≤ -27	PASS
11AX20SISO	Ant1	Low	5180	-40.39	≤ -27	PASS
11AX20SISO	Ant1	High	5240	-40.2	≤ -27	PASS
11AX20SISO	Ant2	Low	5180	-40.28	≤ -27	PASS
11AX20SISO	Ant2	High	5240	-40.23	≤ -27	PASS



TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-39.52	≤16.87	PASS
11A	Ant1	Low	5745	5700~5720	-39.58	≤13.95	PASS
11A	Ant1	Low	5745	5650~5700	-42.34	≤6.23	PASS
11A	Ant1	Low	5745	5760~5650	-43.53	≤-27	PASS
11A	Ant2	Low	5745	5720~5725	-30.94	≤26.04	PASS
11A	Ant2	Low	5745	5700~5720	-31.05	≤15.59	PASS
11A	Ant2	Low	5745	5650~5700	-38.56	≤9.98	PASS
11A	Ant2	Low	5745	5760~5650	-43.95	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-40.42	≤18.87	PASS
11A	Ant1	High	5825	5855~5875	-40.98	≤13.61	PASS
11A	Ant1	High	5825	5875~5925	-40.52	≤8.31	PASS
11A	Ant1	High	5825	5925~5935	-41.35	≤-27	PASS
11A	Ant2	High	5825	5850~5855	-37.02	≤19.80	PASS
11A	Ant2	High	5825	5855~5875	-39.58	≤10.02	PASS
11A	Ant2	High	5825	5875~5925	-40.92	≤7.11	PASS
11A	Ant2	High	5825	5925~5935	-41.39	≤-27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-42.5	≤26.83	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-43.13	≤12.86	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-42.71	≤-12.57	PASS
11N20SISO	Ant1	Low	5745	5760~5650	-44.29	≤-27	PASS
11N20SISO	Ant2	Low	5745	5720~5725	-38.05	≤21.58	PASS
11N20SISO	Ant2	Low	5745	5700~5720	-41.5	≤15.18	PASS
11N20SISO	Ant2	Low	5745	5650~5700	-42.42	≤7.25	PASS
11N20SISO	Ant2	Low	5745	5760~5650	-41.71	≤-27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-41.3	≤26.57	PASS
11N20SISO	Ant1	High	5825	5855~5875	-41.19	≤11.08	PASS
11N20SISO	Ant1	High	5825	5875~5925	-40.83	≤-22.56	PASS
11N20SISO	Ant1	High	5825	5925~5935	-40.66	≤-27	PASS
11N20SISO	Ant2	High	5825	5850~5855	-39.5	≤17.03	PASS
11N20SISO	Ant2	High	5825	5855~5875	-40.65	≤13.65	PASS
11N20SISO	Ant2	High	5825	5875~5925	-40.74	≤4.21	PASS
11N20SISO	Ant2	High	5825	5925~5935	-41.22	≤-27	PASS
11N40SISO	Ant1	Low	5755	5720~5725	-41.78	≤26.82	PASS
11N40SISO	Ant1	Low	5755	5700~5720	-41.86	≤14.90	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-42.27	≤-14.32	PASS
11N40SISO	Ant1	Low	5755	5780~5650	-43.29	≤-27	PASS
11N40SISO	Ant2	Low	5755	5720~5725	-31.55	≤21.28	PASS
11N40SISO	Ant2	Low	5755	5700~5720	-30.96	≤14.90	PASS
11N40SISO	Ant2	Low	5755	5650~5700	-42.3	≤-9.22	PASS
11N40SISO	Ant2	Low	5755	5780~5650	-43.82	≤-27	PASS
11N40SISO	Ant1	High	5795	5850~5855	-41.63	≤20.55	PASS
11N40SISO	Ant1	High	5795	5855~5875	-41.26	≤12.40	PASS
11N40SISO	Ant1	High	5795	5875~5925	-40.69	≤-20.45	PASS
11N40SISO	Ant1	High	5795	5925~5935	-40.79	≤-27	PASS
11N40SISO	Ant2	High	5795	5850~5855	-41.01	≤16.79	PASS
11N40SISO	Ant2	High	5795	5855~5875	-40.69	≤12.26	PASS
11N40SISO	Ant2	High	5795	5875~5925	-40.46	≤-16.18	PASS
11N40SISO	Ant2	High	5795	5925~5935	-41.78	≤-27	PASS
11AC20SISO	Ant1	Low	5745	5720~5725	-43.21	≤23.42	PASS
11AC20SISO	Ant1	Low	5745	5700~5720	-42.84	≤14.95	PASS
11AC20SISO	Ant1	Low	5745	5650~5700	-42.16	≤-24.15	PASS
11AC20SISO	Ant1	Low	5745	5760~5650	-42.57	≤-27	PASS



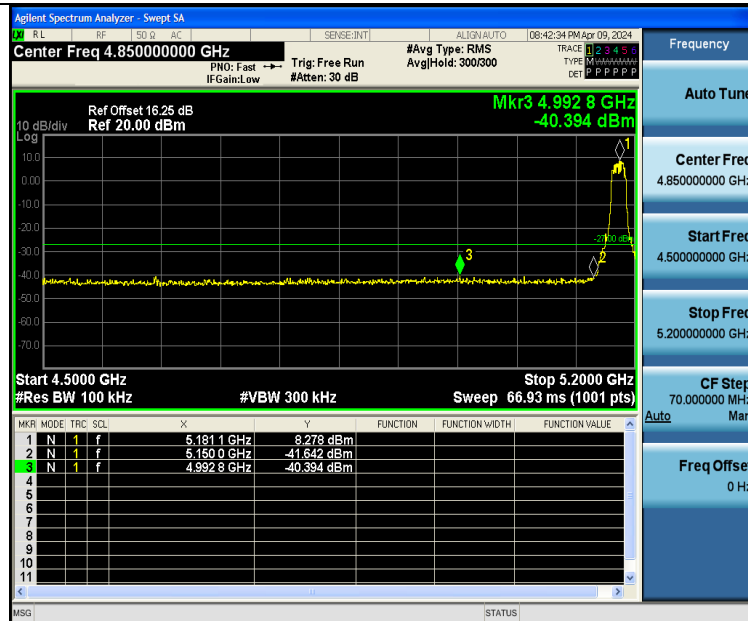
11AC20SISO	Ant2	Low	5745	5720~5725	-37.63	≤26.83	PASS
11AC20SISO	Ant2	Low	5745	5700~5720	-40.93	≤15.59	PASS
11AC20SISO	Ant2	Low	5745	5650~5700	-42.02	≤2.23	PASS
11AC20SISO	Ant2	Low	5745	5760~5650	-43.53	≤-27	PASS
11AC20SISO	Ant1	High	5825	5850~5855	-39.96	≤23.80	PASS
11AC20SISO	Ant1	High	5825	5855~5875	-41.27	≤10.85	PASS
11AC20SISO	Ant1	High	5825	5875~5925	-40.73	≤-12.77	PASS
11AC20SISO	Ant1	High	5825	5925~5935	-41.53	≤-27	PASS
11AC20SISO	Ant2	High	5825	5850~5855	-41.57	≤23.18	PASS
11AC20SISO	Ant2	High	5825	5855~5875	-40.24	≤14.82	PASS
11AC20SISO	Ant2	High	5825	5875~5925	-40.87	≤-11.17	PASS
11AC20SISO	Ant2	High	5825	5925~5935	-41.3	≤-27	PASS
11AC40SISO	Ant1	Low	5755	5720~5725	-42.62	≤25.59	PASS
11AC40SISO	Ant1	Low	5755	5700~5720	-42.52	≤15.58	PASS
11AC40SISO	Ant1	Low	5755	5650~5700	-42.95	≤1.07	PASS
11AC40SISO	Ant1	Low	5755	5780~5650	-43.44	≤-27	PASS
11AC40SISO	Ant2	Low	5755	5720~5725	-33.58	≤21.28	PASS
11AC40SISO	Ant2	Low	5755	5700~5720	-33.59	≤14.90	PASS
11AC40SISO	Ant2	Low	5755	5650~5700	-42.52	≤-18.21	PASS
11AC40SISO	Ant2	Low	5755	5780~5650	-43.79	≤-27	PASS
11AC40SISO	Ant1	High	5795	5850~5855	-40.94	≤24.69	PASS
11AC40SISO	Ant1	High	5795	5855~5875	-40.89	≤15.03	PASS
11AC40SISO	Ant1	High	5795	5875~5925	-40.64	≤8.98	PASS
11AC40SISO	Ant1	High	5795	5925~5935	-42.22	≤-27	PASS
11AC40SISO	Ant2	High	5795	5850~5855	-42.33	≤17.54	PASS
11AC40SISO	Ant2	High	5795	5855~5875	-40.37	≤10.13	PASS
11AC40SISO	Ant2	High	5795	5875~5925	-41.39	≤6.53	PASS
11AC40SISO	Ant2	High	5795	5925~5935	-41.24	≤-27	PASS
11AC80SISO	Ant2	Low	5775	5720~5725	-36.05	≤21.30	PASS
11AC80SISO	Ant2	Low	5775	5700~5720	-36.5	≤13.13	PASS
11AC80SISO	Ant2	Low	5775	5650~5700	-38.78	≤2.56	PASS
11AC80SISO	Ant2	Low	5775	5800~5650	-43.6	≤-27	PASS
11AC80SISO	Ant2	High	5775	5850~5855	-38.48	≤18.32	PASS
11AC80SISO	Ant2	High	5775	5855~5875	-40.31	≤10.70	PASS
11AC80SISO	Ant2	High	5775	5875~5925	-40.92	≤-24.90	PASS
11AC80SISO	Ant2	High	5775	5925~5935	-41.51	≤-27	PASS
11AC80SISO	Ant1	Low	5775	5720~5725	-39.2	≤26.25	PASS
11AC80SISO	Ant1	Low	5775	5700~5720	-41.48	≤15.56	PASS
11AC80SISO	Ant1	Low	5775	5650~5700	-42.49	≤-18.31	PASS
11AC80SISO	Ant1	Low	5775	5800~5650	-44.29	≤-27	PASS
11AC80SISO	Ant1	High	5775	5850~5855	-42.01	≤22.54	PASS
11AC80SISO	Ant1	High	5775	5855~5875	-41.6	≤10.95	PASS
11AC80SISO	Ant1	High	5775	5875~5925	-40.98	≤-14.91	PASS
11AC80SISO	Ant1	High	5775	5925~5935	-41.88	≤-27	PASS
11AX40SISO	Ant1	Low	5755	5720~5725	-36.14	≤21.28	PASS
11AX40SISO	Ant1	Low	5755	5700~5720	-37.47	≤14.90	PASS
11AX40SISO	Ant1	Low	5755	5650~5700	-42.86	≤-17.51	PASS
11AX40SISO	Ant1	Low	5755	5780~5650	-43.45	≤-27	PASS
11AX40SISO	Ant1	High	5795	5850~5855	-41.77	≤21.30	PASS
11AX40SISO	Ant1	High	5795	5855~5875	-40.5	≤13.27	PASS
11AX40SISO	Ant1	High	5795	5875~5925	-40.14	≤-14.10	PASS
11AX40SISO	Ant1	High	5795	5925~5935	-41.64	≤-27	PASS
11AX80SISO	Ant1	Low	5775	5720~5725	-40.9	≤18.47	PASS
11AX80SISO	Ant1	Low	5775	5700~5720	-40.65	≤14.91	PASS
11AX80SISO	Ant1	Low	5775	5650~5700	-42.57	≤-15.44	PASS
11AX80SISO	Ant1	Low	5775	5800~5650	-42.63	≤-27	PASS



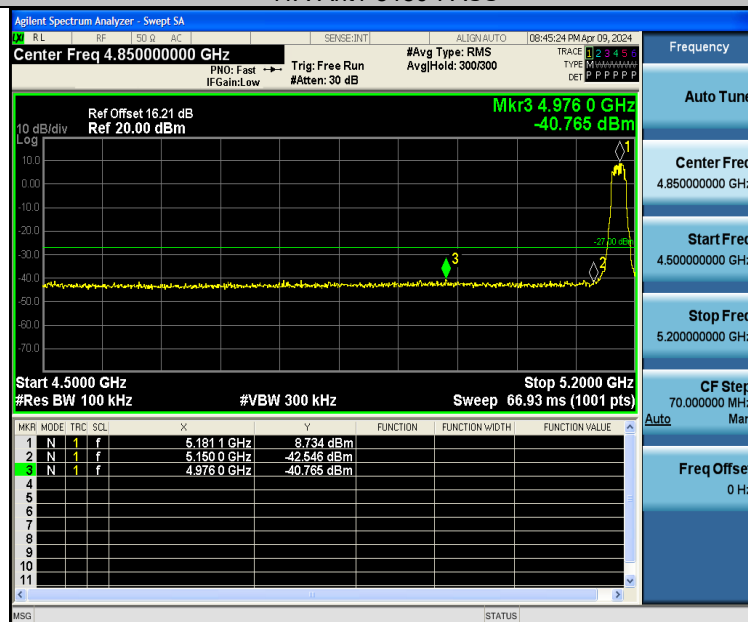
11AX80SISO	Ant1	High	5775	5850~5855	-42.08	≤15.79	PASS
11AX80SISO	Ant1	High	5775	5855~5875	-41.85	≤13.13	PASS
11AX80SISO	Ant1	High	5775	5875~5925	-40.99	≤-1.63	PASS
11AX80SISO	Ant1	High	5775	5925~5935	-41.22	≤-27	PASS
11AX40SISO	Ant2	Low	5755	5720~5725	-35.81	≤21.28	PASS
11AX40SISO	Ant2	Low	5755	5700~5720	-37.66	≤15.24	PASS
11AX40SISO	Ant2	Low	5755	5650~5700	-42.85	≤-11.02	PASS
11AX40SISO	Ant2	Low	5755	5780~5650	-43.71	≤-27	PASS
11AX40SISO	Ant2	High	5795	5850~5855	-41.08	≤24.69	PASS
11AX40SISO	Ant2	High	5795	5855~5875	-41.28	≤14.24	PASS
11AX40SISO	Ant2	High	5795	5875~5925	-40.59	≤-5.43	PASS
11AX40SISO	Ant2	High	5795	5925~5935	-41.22	≤-27	PASS
11AX80SISO	Ant2	Low	5775	5720~5725	-39.64	≤21.30	PASS
11AX80SISO	Ant2	Low	5775	5700~5720	-41.1	≤15.35	PASS
11AX80SISO	Ant2	Low	5775	5650~5700	-42.2	≤-20.84	PASS
11AX80SISO	Ant2	Low	5775	5800~5650	-43.29	≤-27	PASS
11AX80SISO	Ant2	High	5775	5850~5855	-41.61	≤22.12	PASS
11AX80SISO	Ant2	High	5775	5855~5875	-40.38	≤10.28	PASS
11AX80SISO	Ant2	High	5775	5875~5925	-41.19	≤-7.93	PASS
11AX80SISO	Ant2	High	5775	5925~5935	-40.89	≤-27	PASS
11AX20SISO	Ant1	Low	5745	5720~5725	-38	≤24.99	PASS
11AX20SISO	Ant1	Low	5745	5700~5720	-41.91	≤12.86	PASS
11AX20SISO	Ant1	Low	5745	5650~5700	-41.75	≤0.11	PASS
11AX20SISO	Ant1	Low	5745	5760~5650	-43.58	≤-27	PASS
11AX20SISO	Ant1	High	5825	5850~5855	-38.98	≤16.10	PASS
11AX20SISO	Ant1	High	5825	5855~5875	-40.89	≤10.44	PASS
11AX20SISO	Ant1	High	5825	5875~5925	-40.59	≤-5.08	PASS
11AX20SISO	Ant1	High	5825	5925~5935	-41.29	≤-27	PASS
11AX20SISO	Ant2	Low	5745	5720~5725	-38.1	≤26.04	PASS
11AX20SISO	Ant2	Low	5745	5700~5720	-41.81	≤15.53	PASS
11AX20SISO	Ant2	Low	5745	5650~5700	-42.8	≤-4.06	PASS
11AX20SISO	Ant2	Low	5745	5760~5650	-43.22	≤-27	PASS
11AX20SISO	Ant2	High	5825	5850~5855	-39.08	≤16.10	PASS
11AX20SISO	Ant2	High	5825	5855~5875	-40.7	≤10.51	PASS
11AX20SISO	Ant2	High	5825	5875~5925	-39.95	≤-7.28	PASS
11AX20SISO	Ant2	High	5825	5925~5935	-41.08	≤-27	PASS



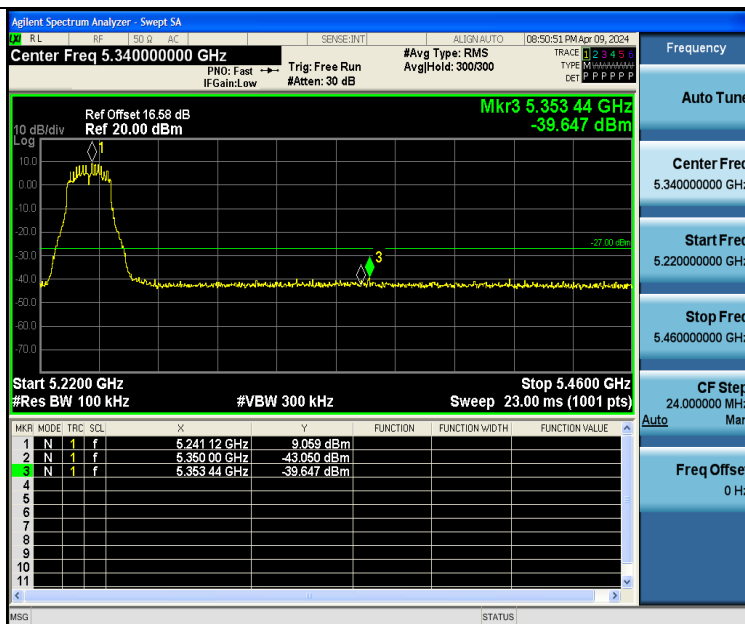
Test Graphs:



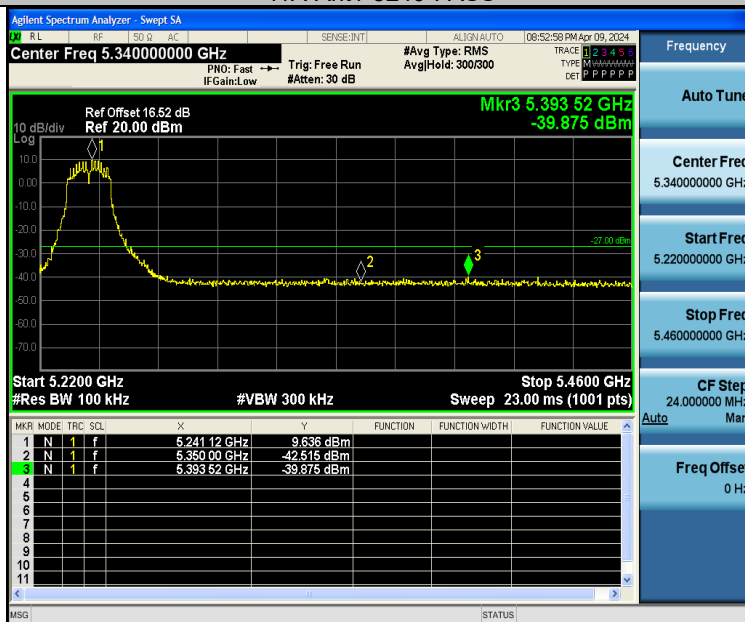
11A-Ant1-5180-PASS



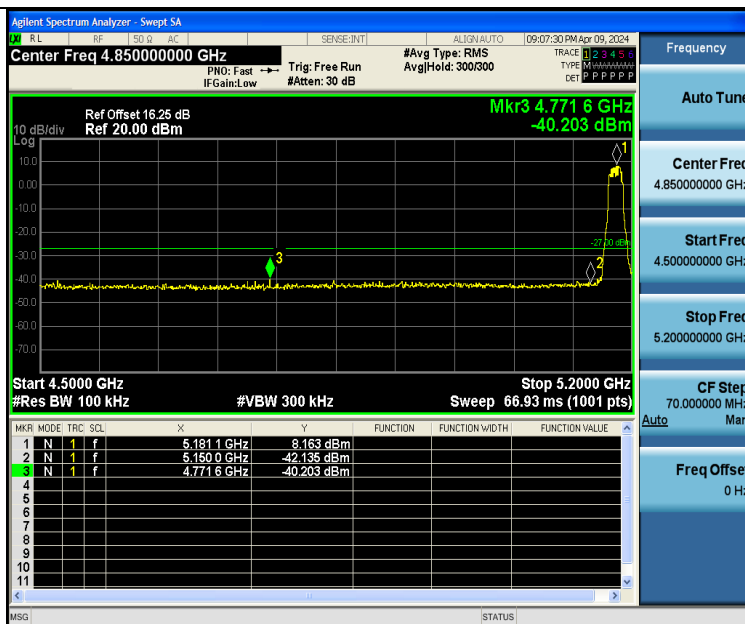
11A-Ant2-5180-PASS



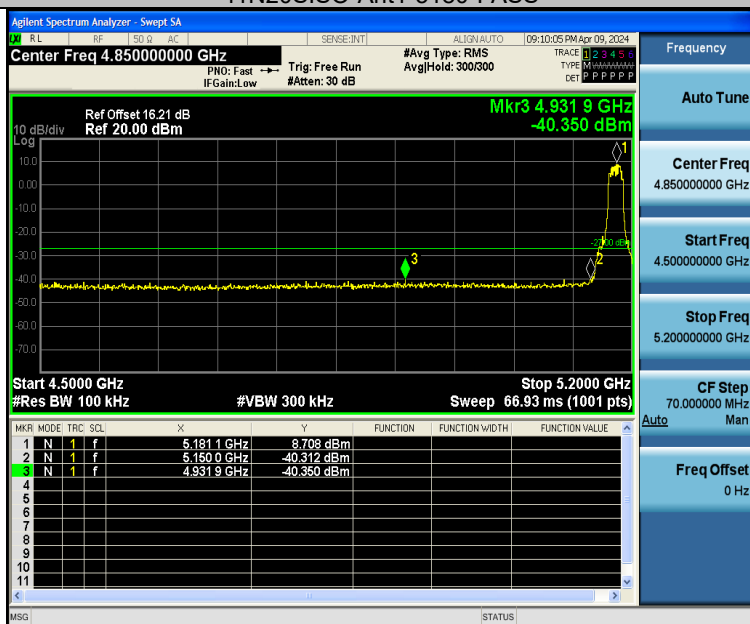
11A-Ant1-5240-PASS



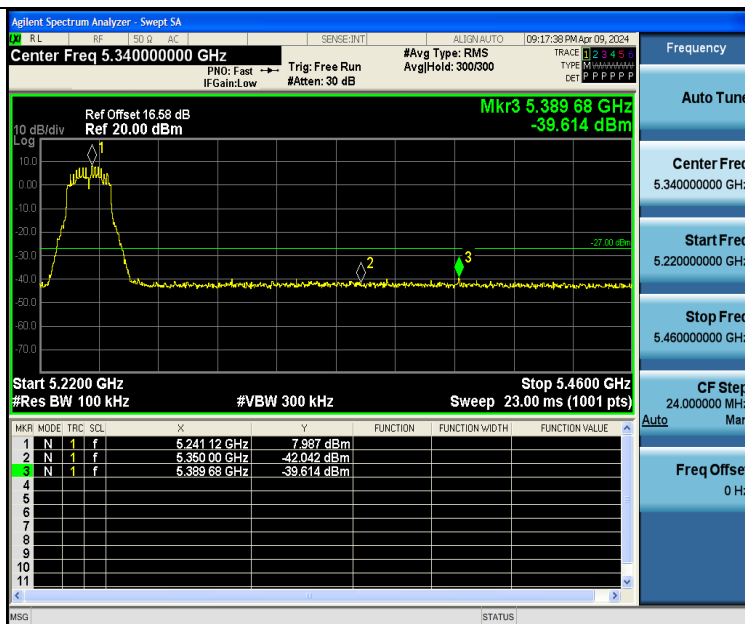
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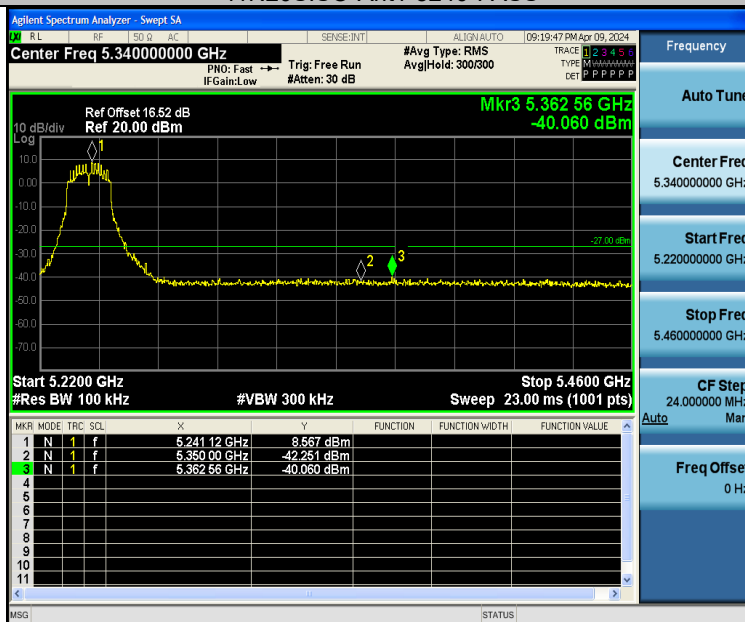
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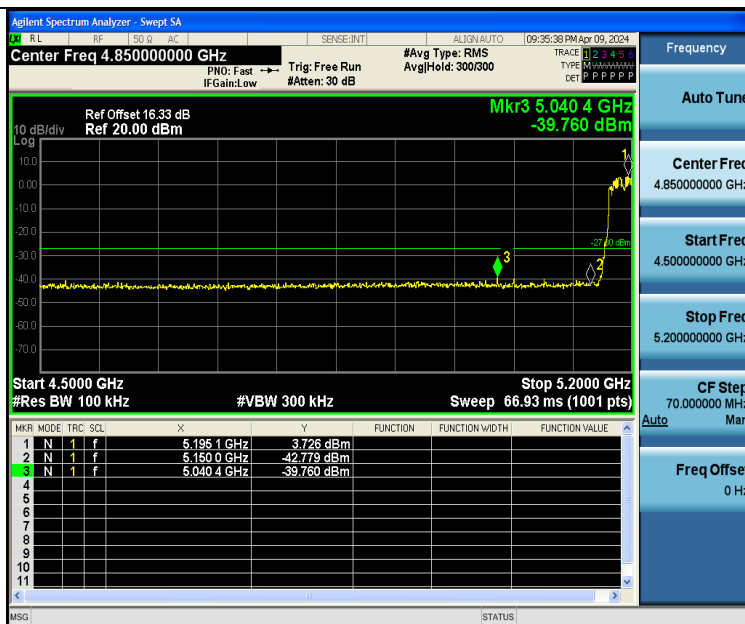
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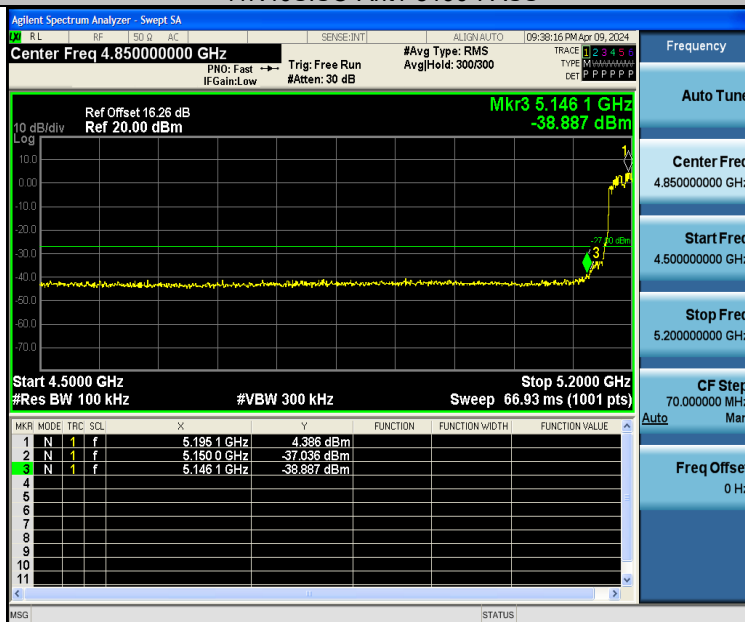
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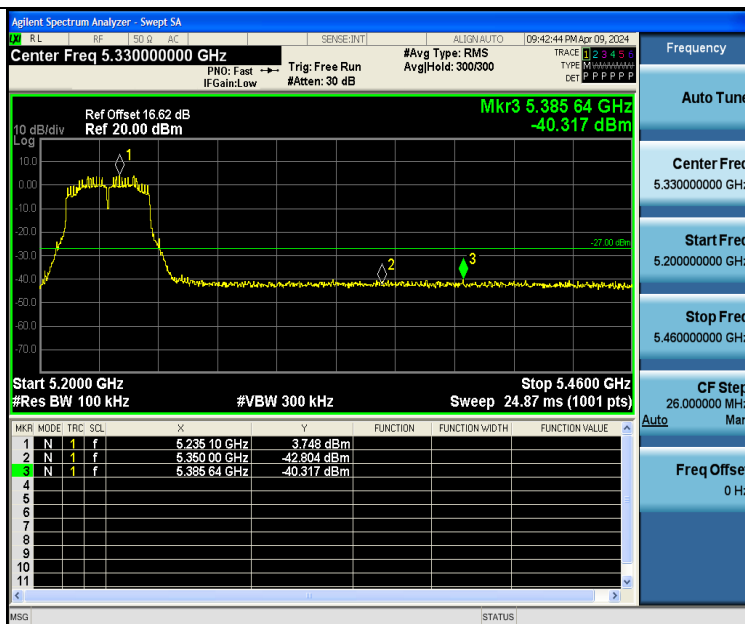
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11N40SISO-Ant1-5190-PASS



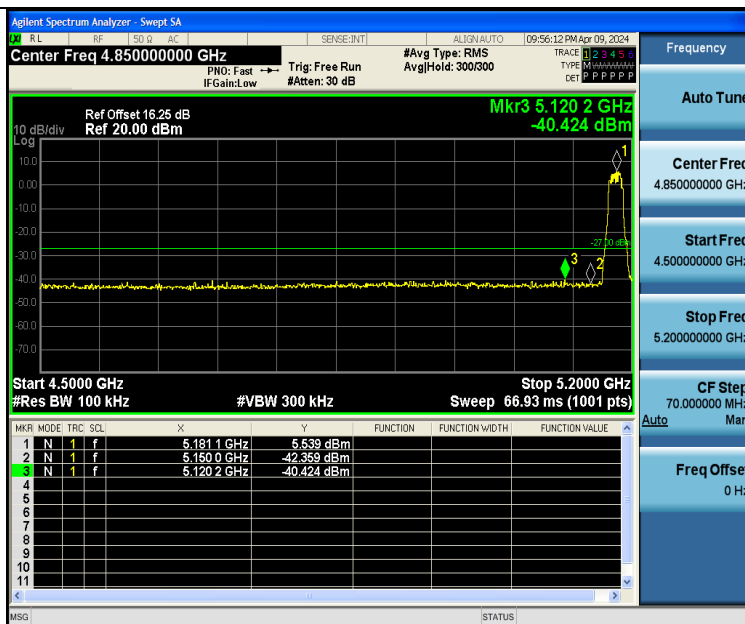
11N40SISO-Ant2-5190-PASS



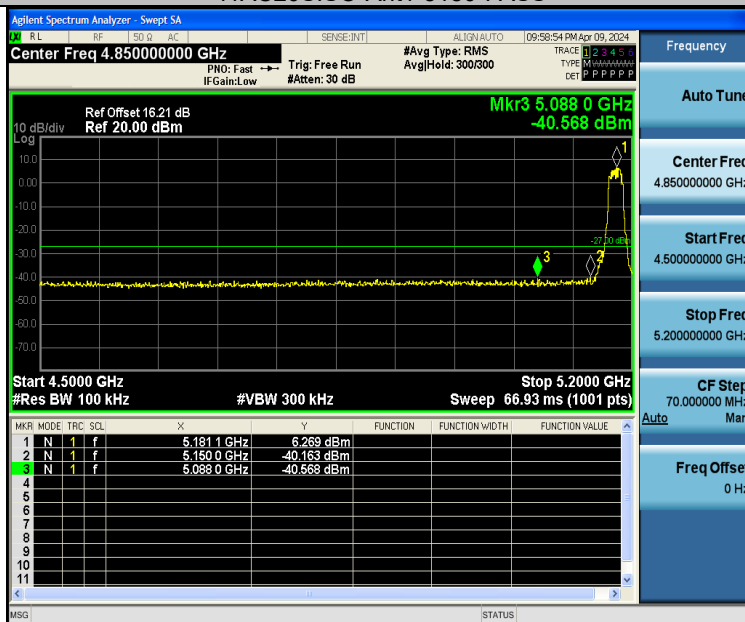
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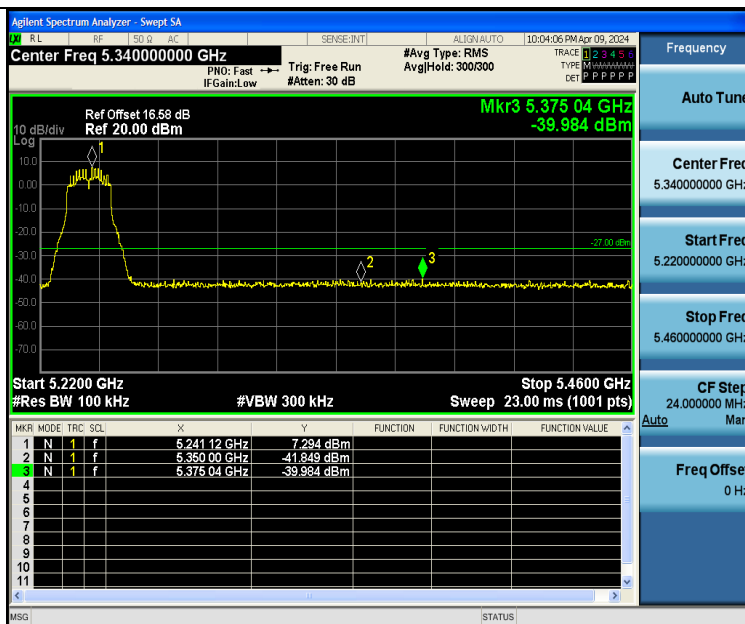
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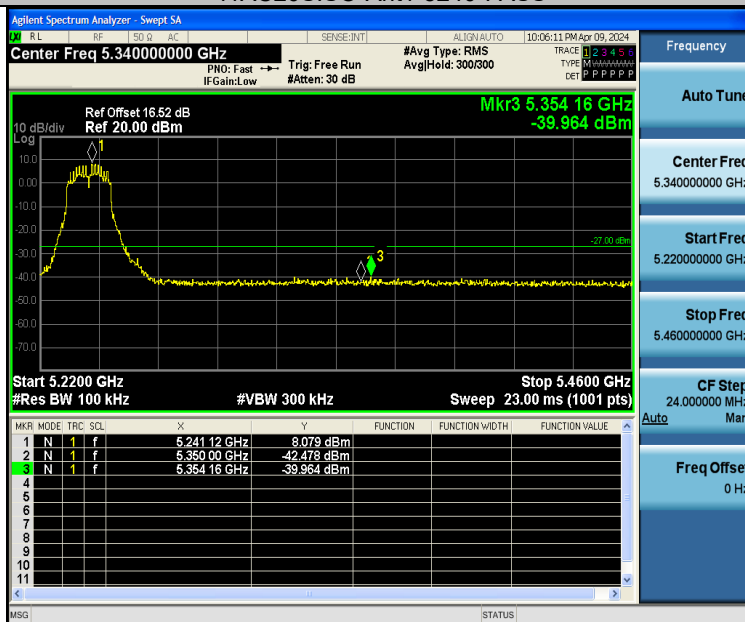
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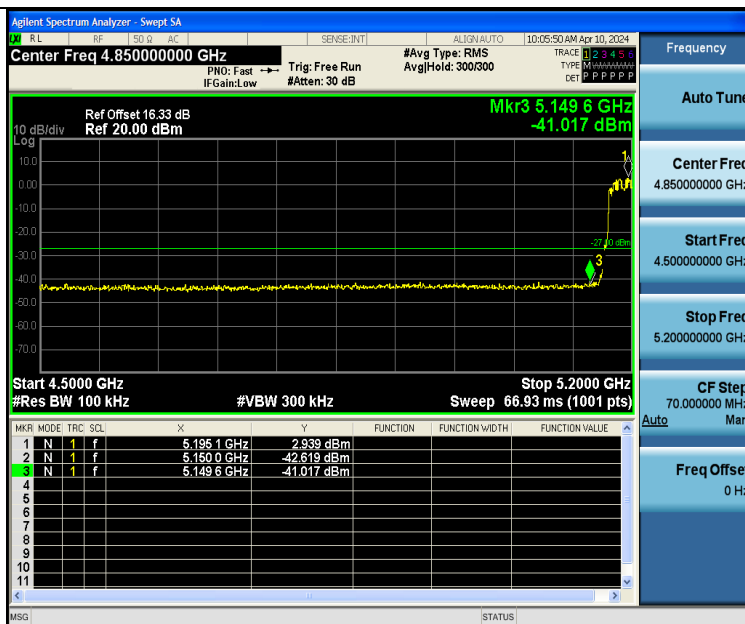
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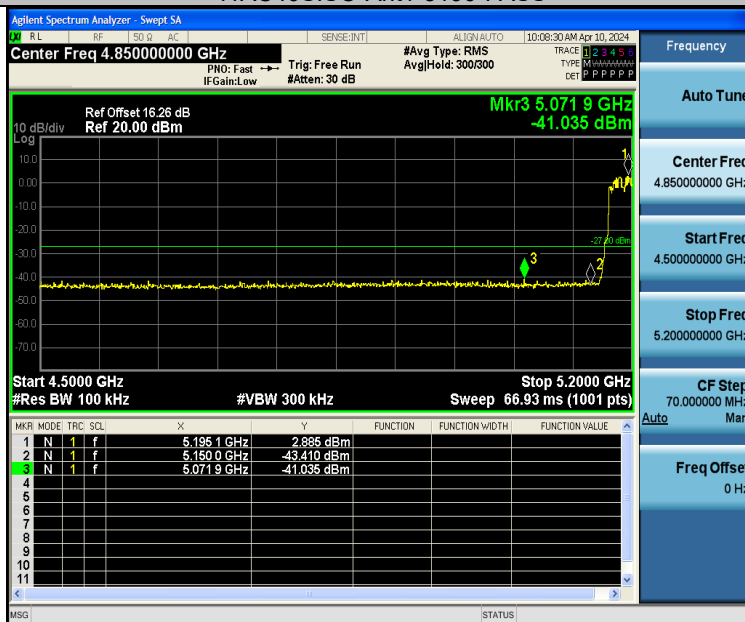
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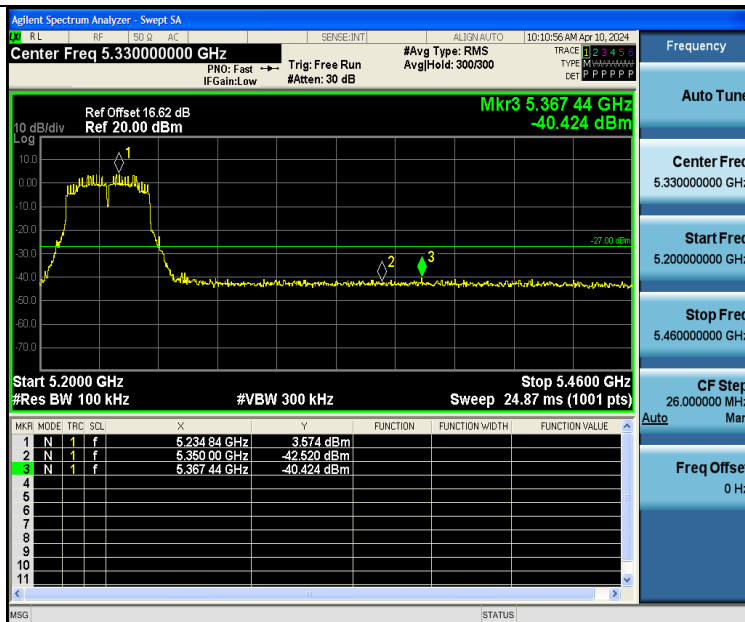
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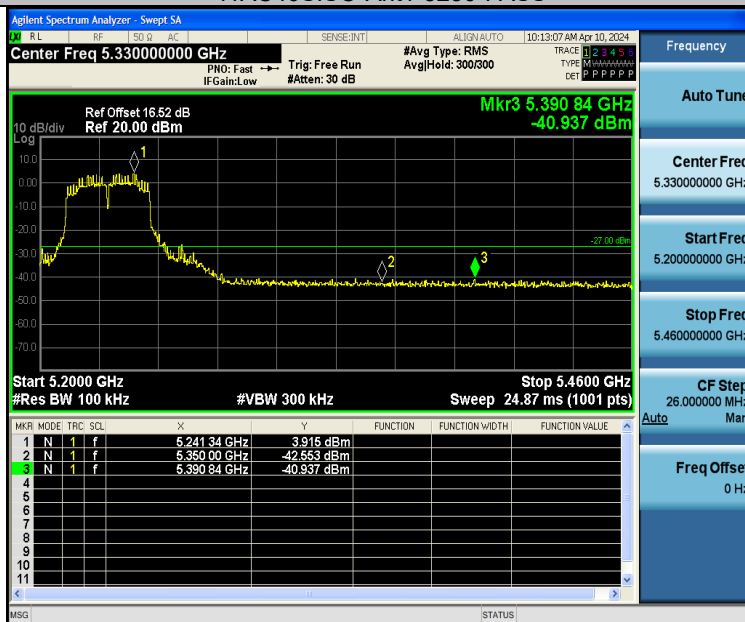
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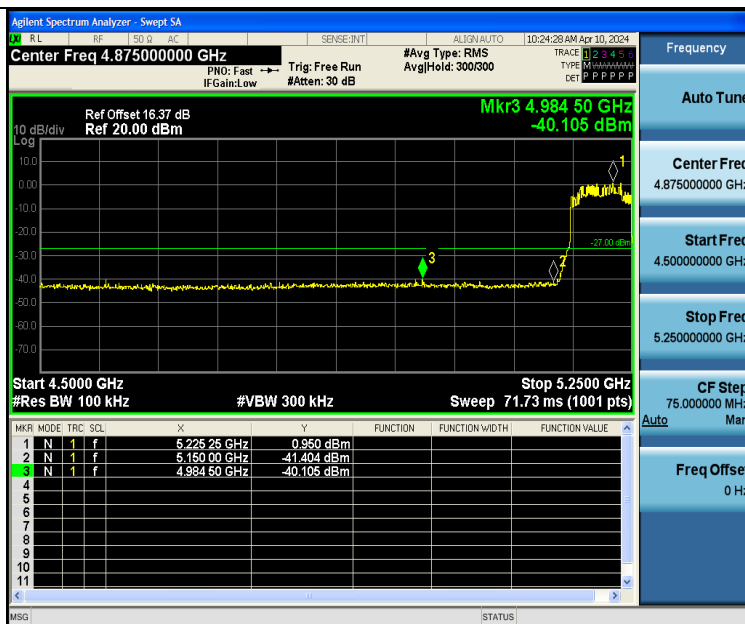
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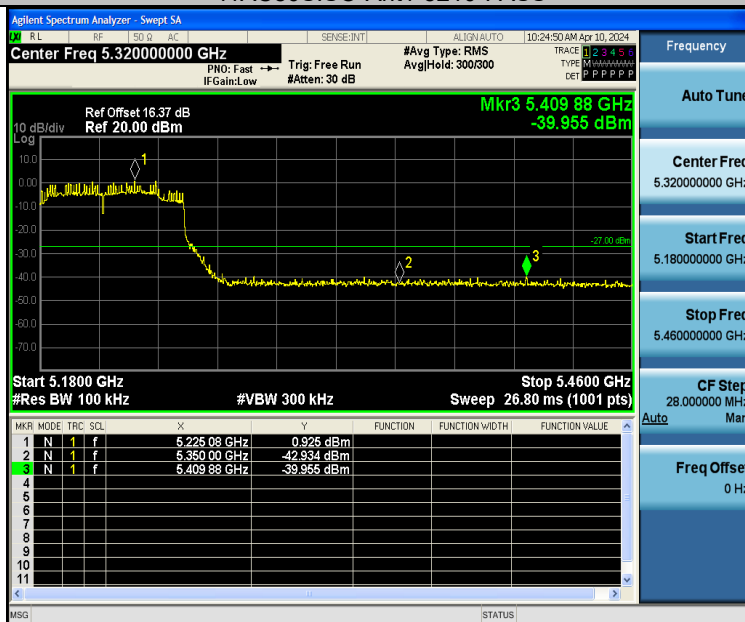
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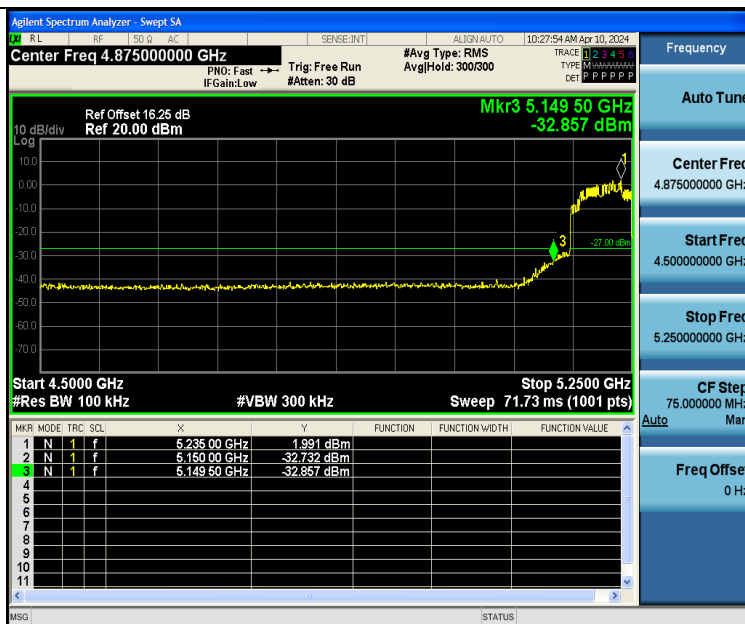
11AC40SISO-Ant2-5230-PASS



11AC80SISO-Ant1-5210-PASS



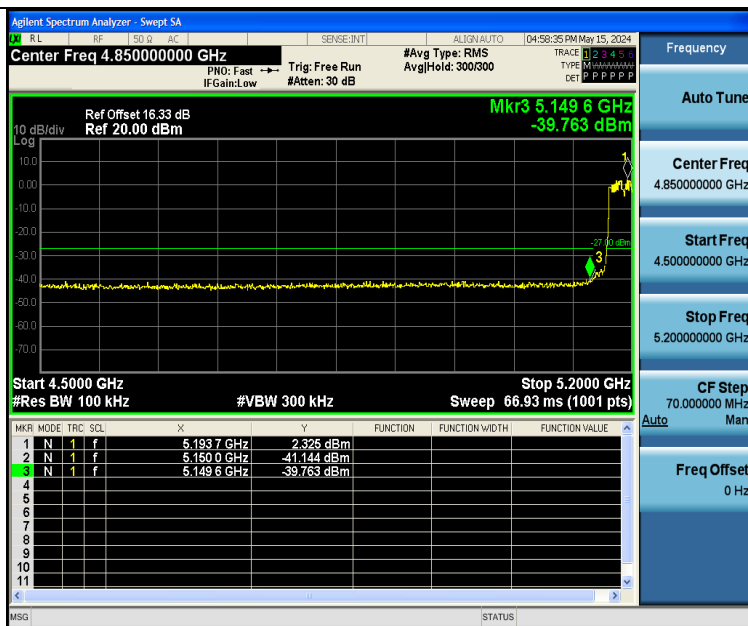
11AC80SISO-Ant1-5210-PASS



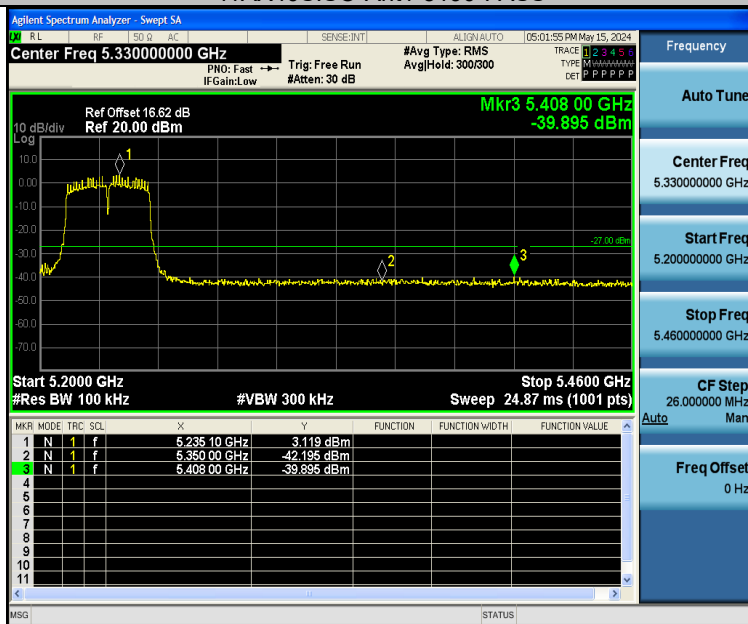
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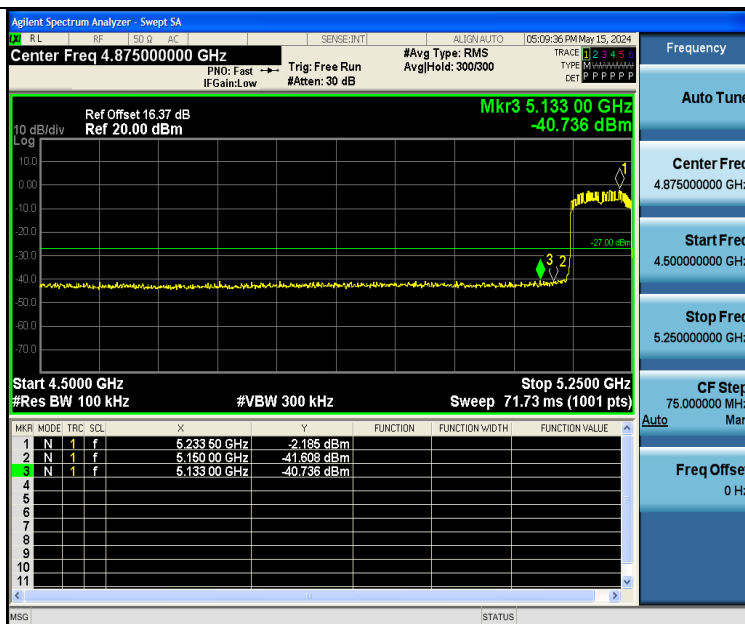
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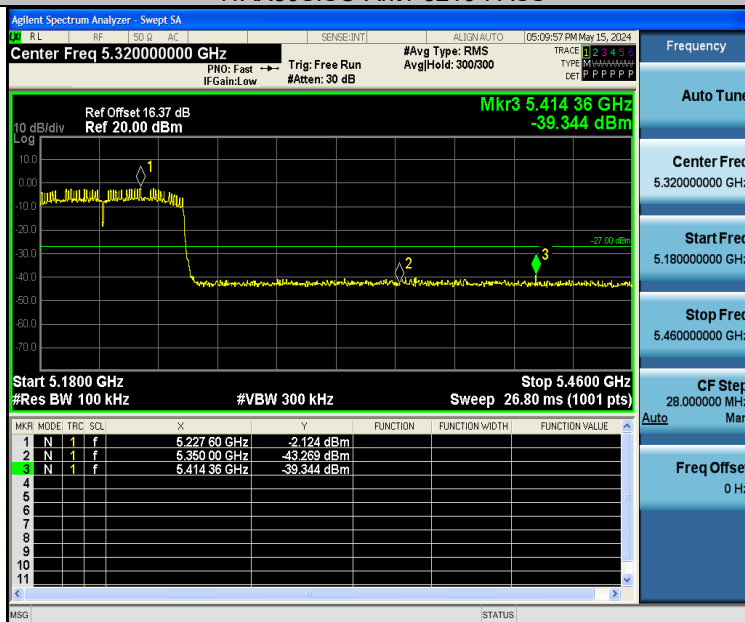
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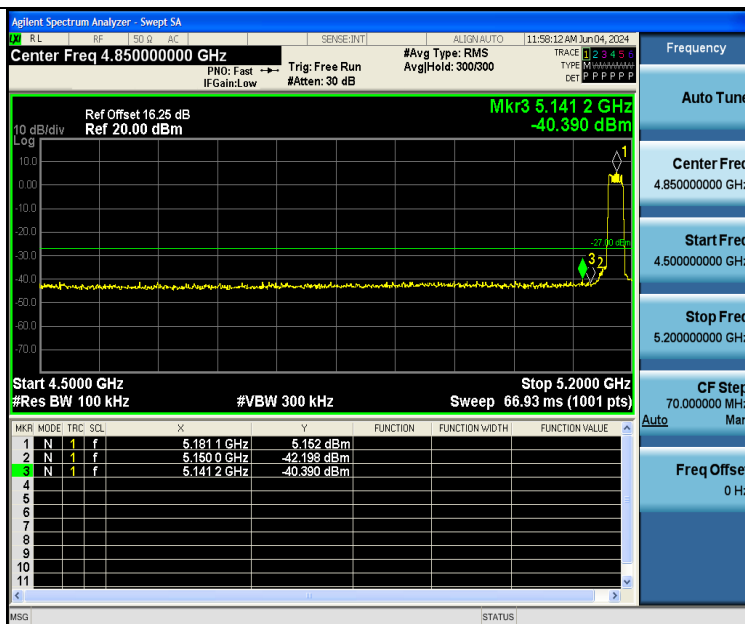
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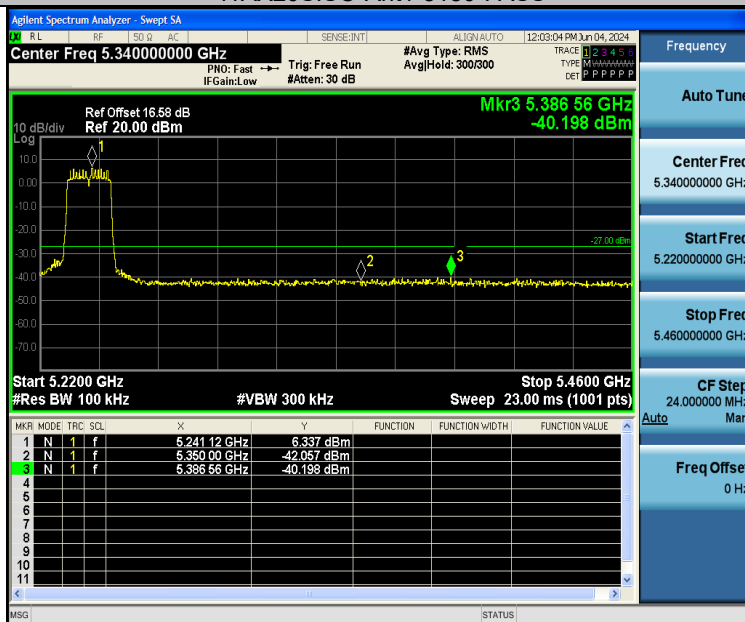
11AX80SISO-Ant1-5210-PASS



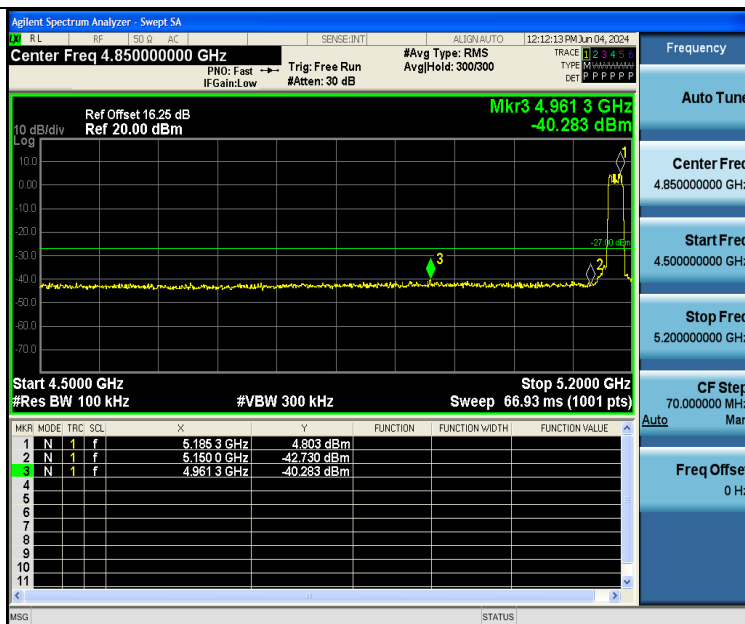
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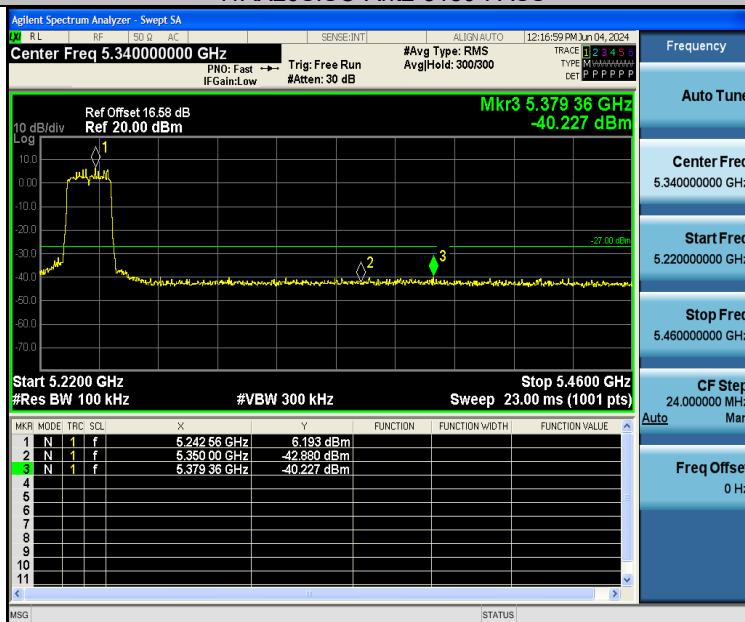
11AX20SISO-Ant1-5180-PASS



11AX20SISO-Ant1-5240-PASS



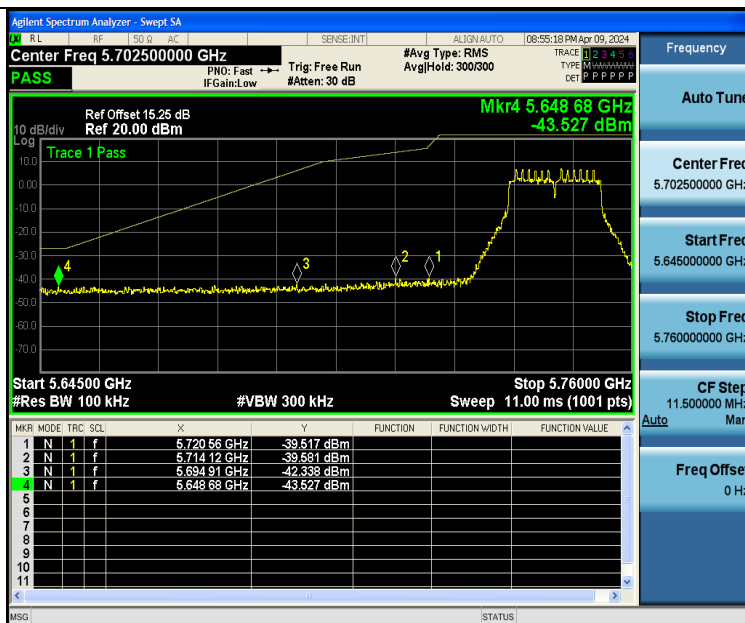
11AX20SISO-Ant2-5180-PASS



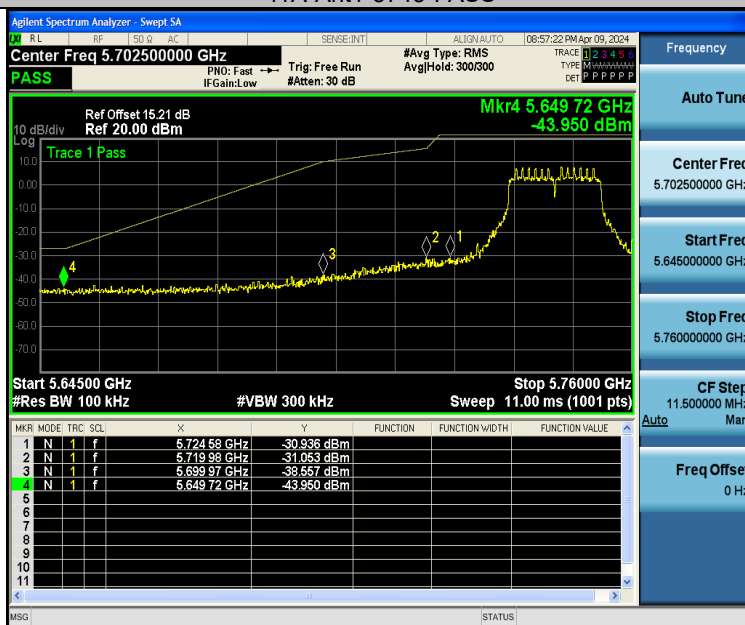
11AX20SISO-Ant2-5240-PASS



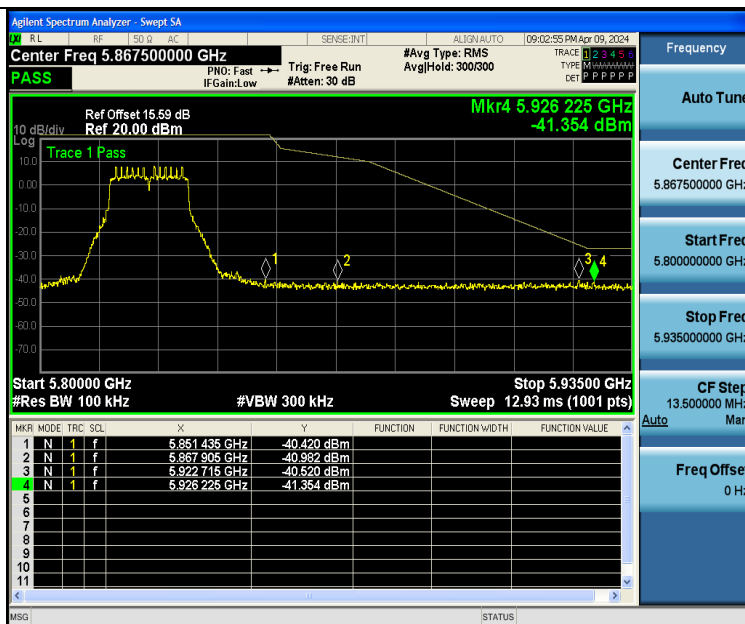
Test plots B4:



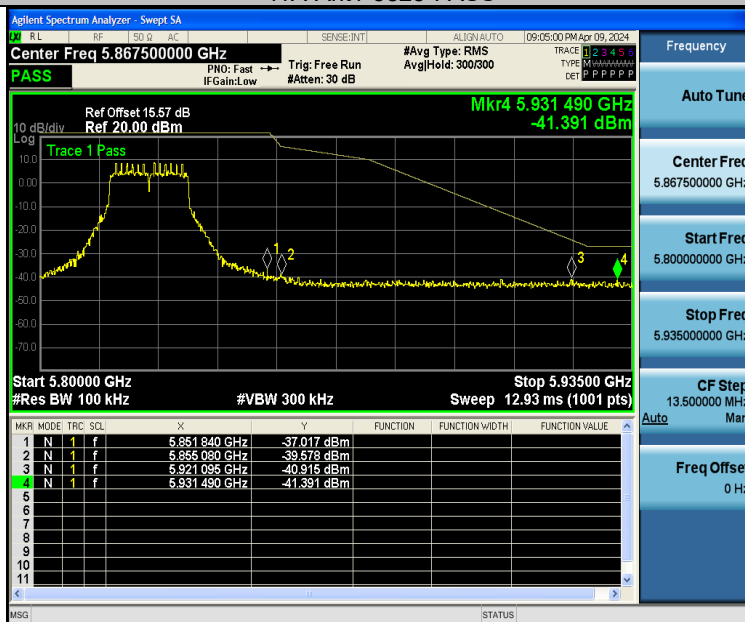
11A-Ant1-5745-PASS



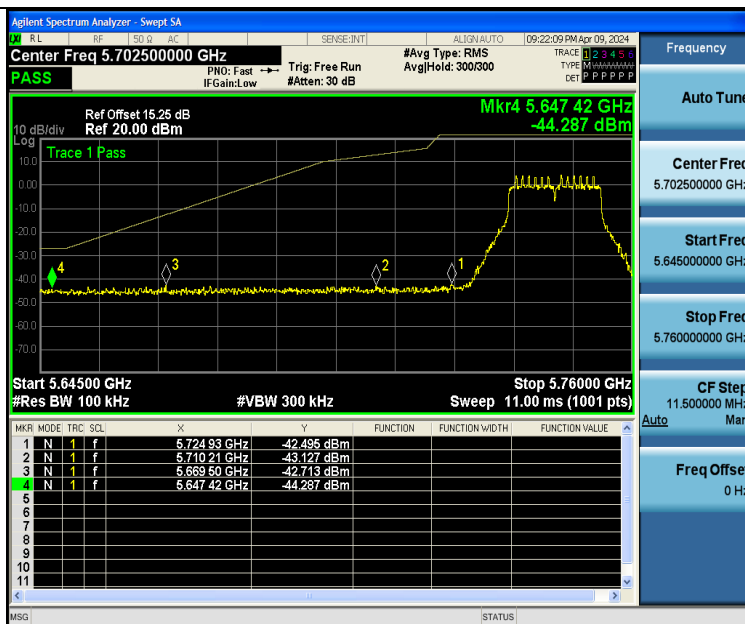
11A-Ant2-5745-PASS



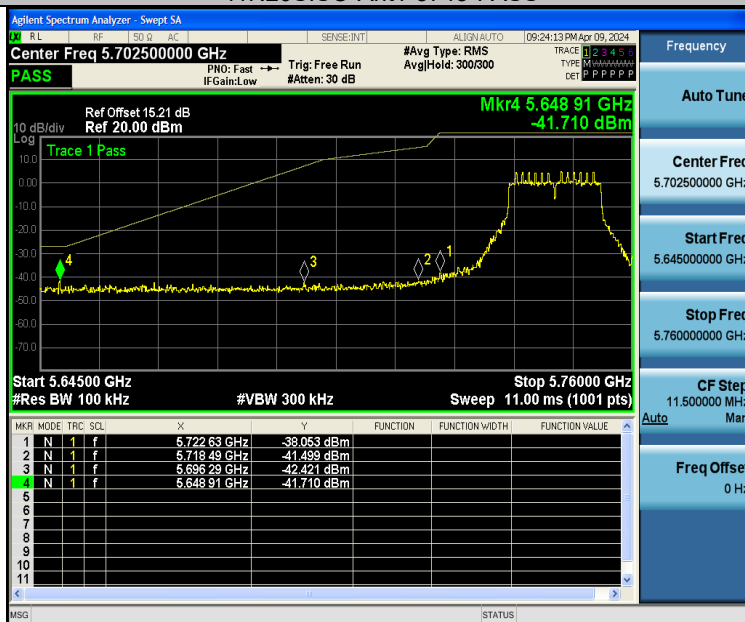
11A-Ant1-5825-PASS



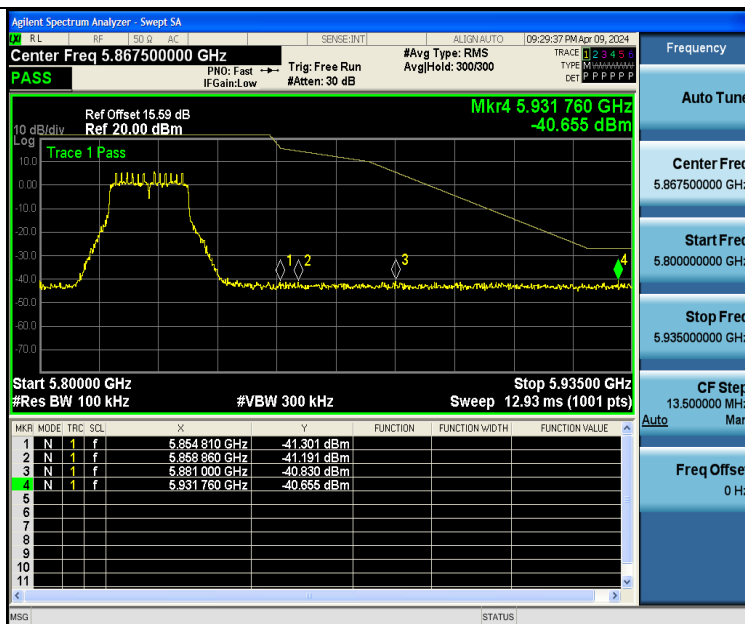
11A-Ant2-5825-PASS



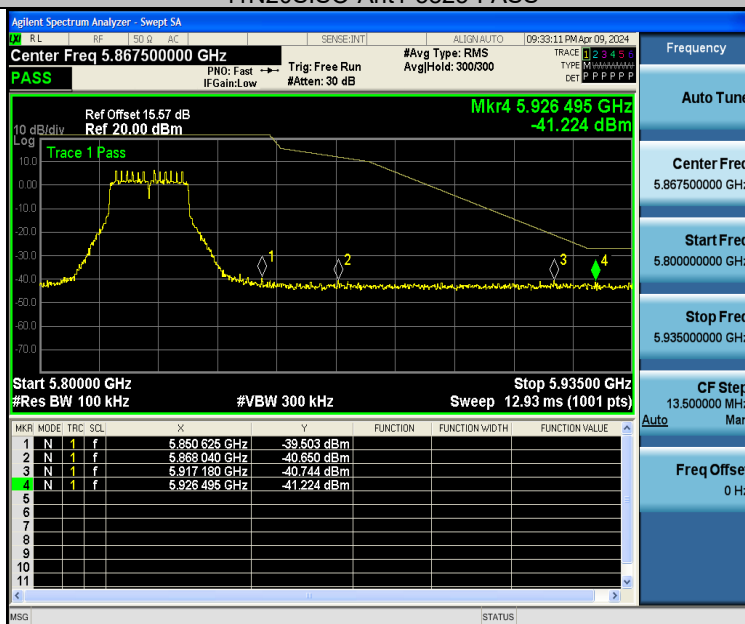
11N20SISO-Ant1-5745-PASS



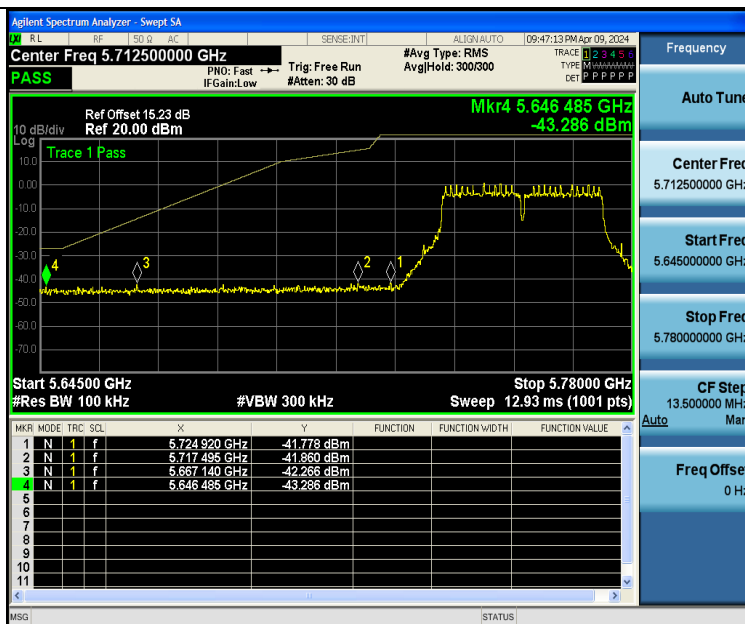
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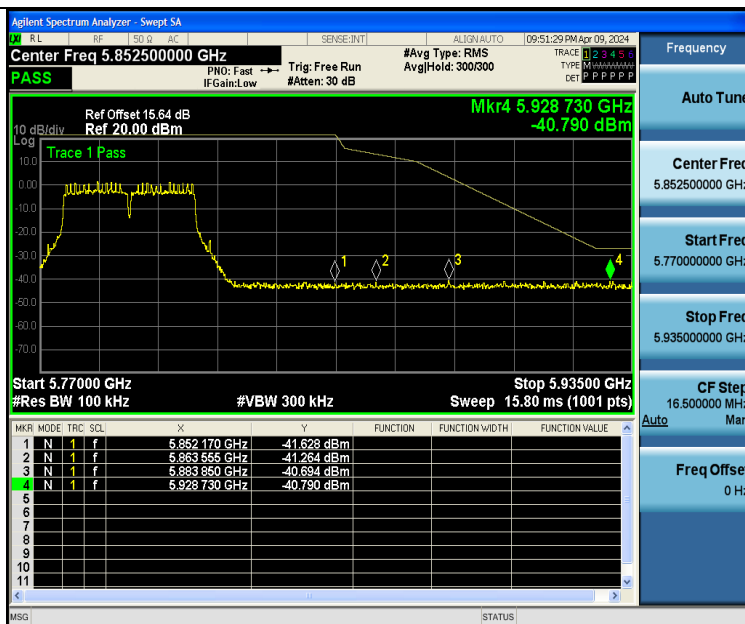
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11N40SISO-Ant1-5755-PASS



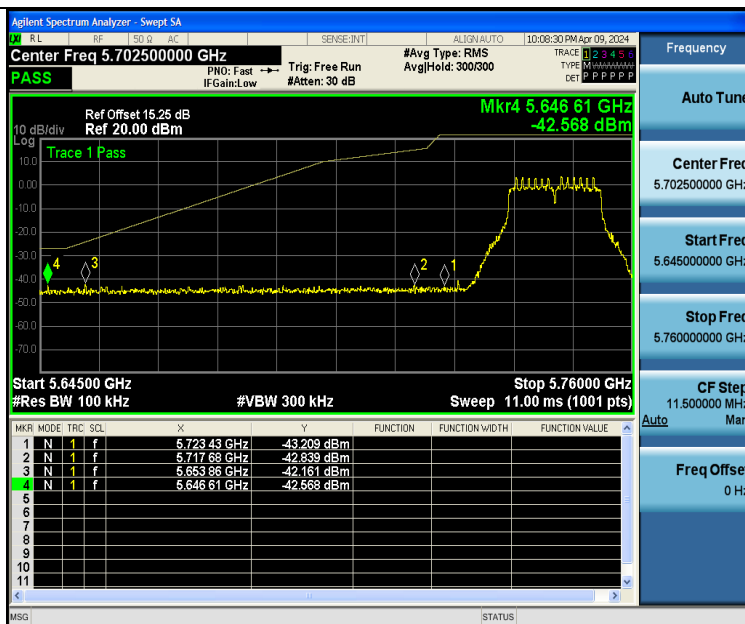
11N40SISO-Ant2-5755-PASS



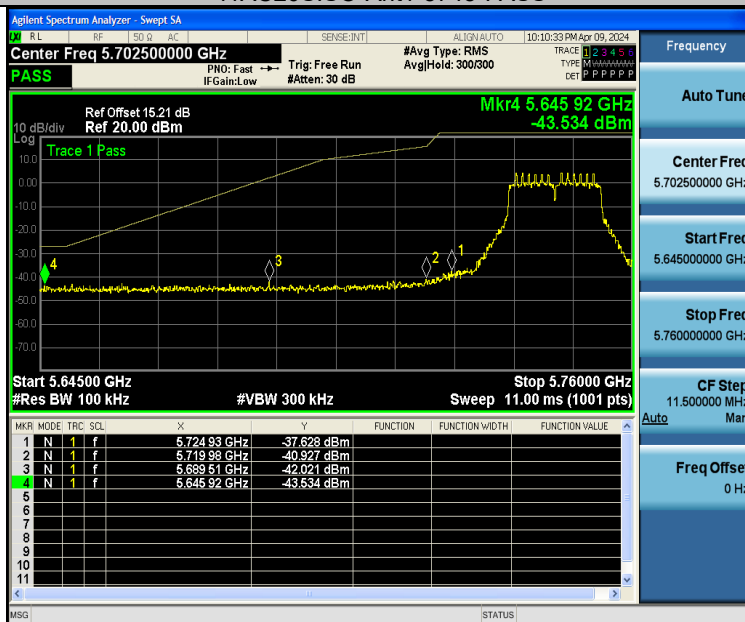
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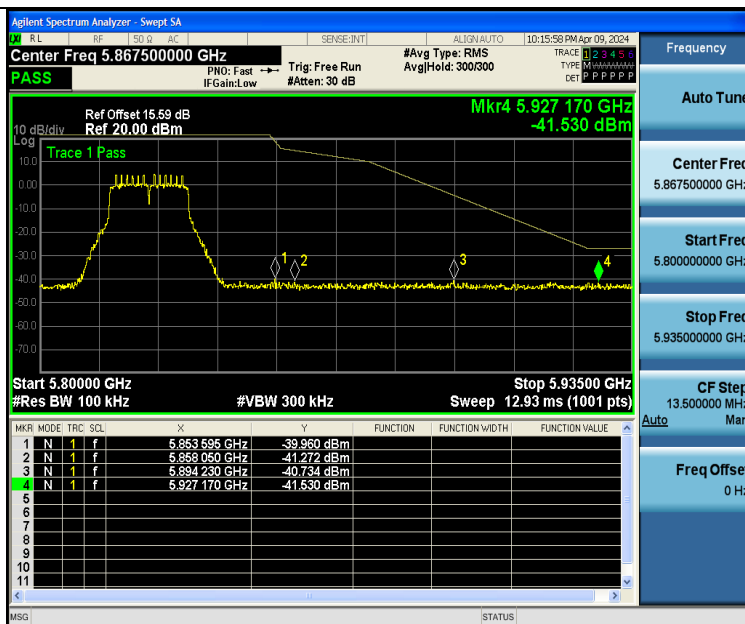
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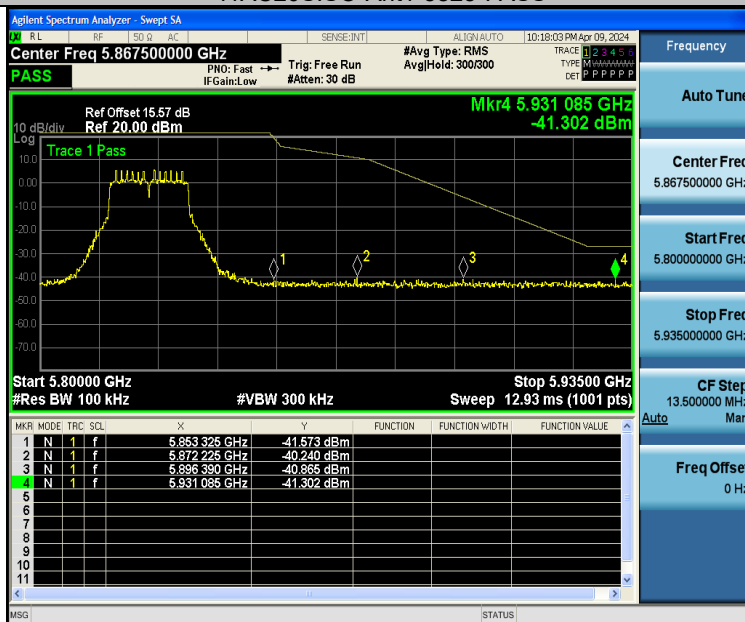
11AC20SISO-Ant1-5745-PASS



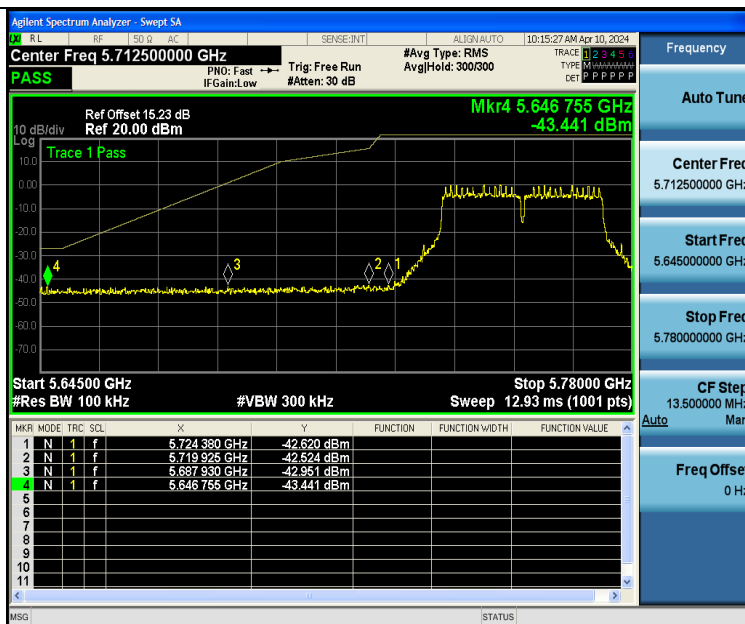
11AC20SISO-Ant2-5745-PASS



11AC20SISO-Ant1-5825-PASS



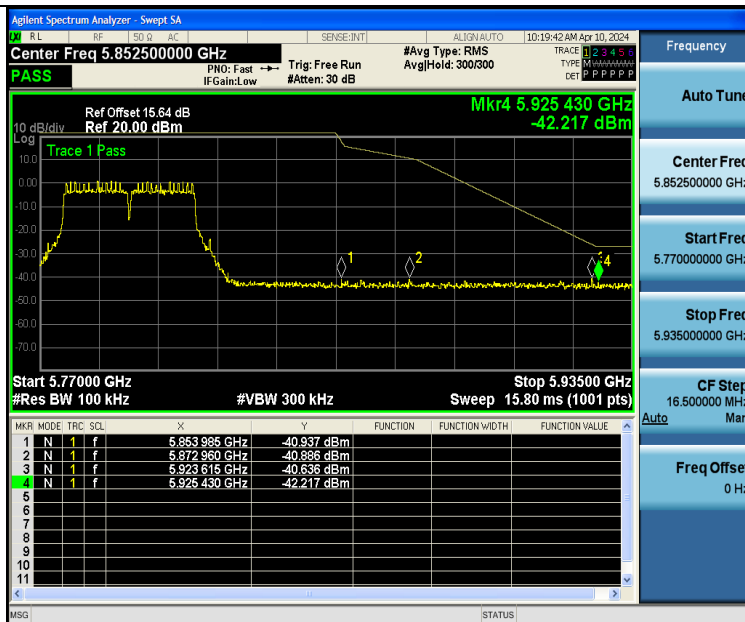
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11AC40SISO-Ant1-5755-PASS



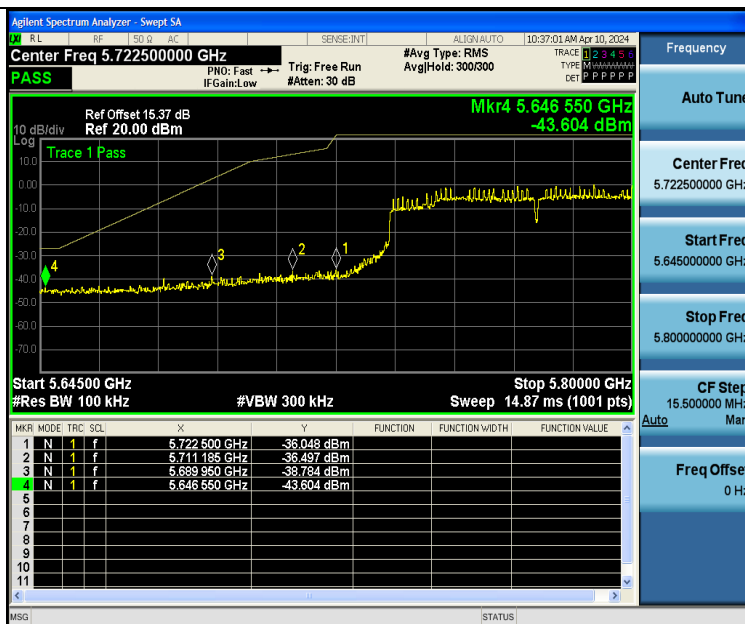
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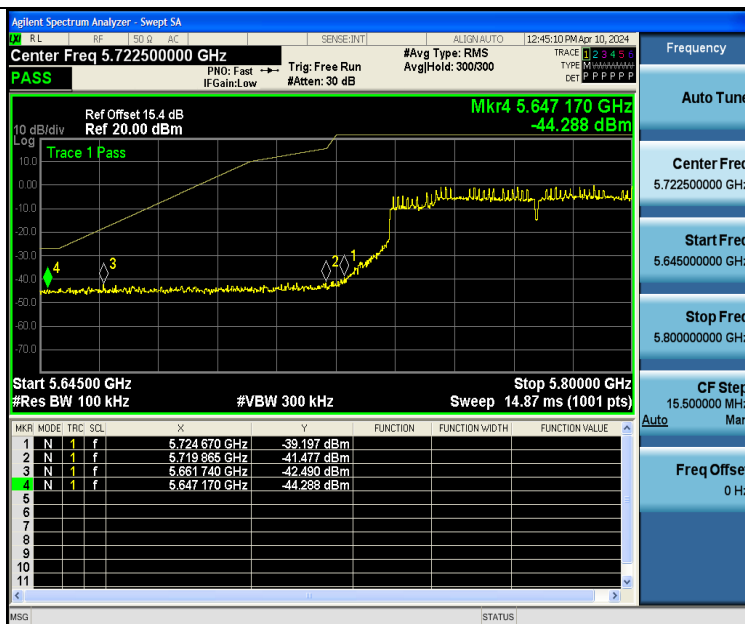
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11AC80SISO-Ant2-5775-PASS



11AC80SISO-Ant2-5775-PASS



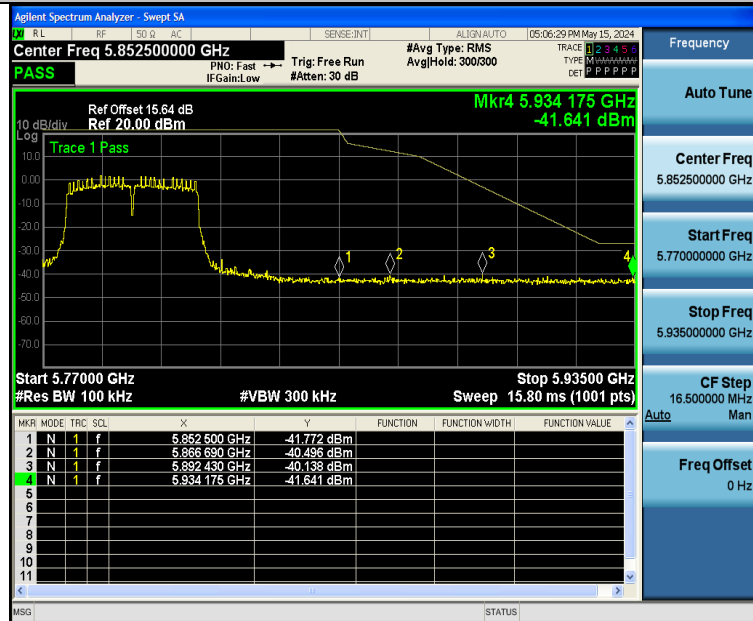
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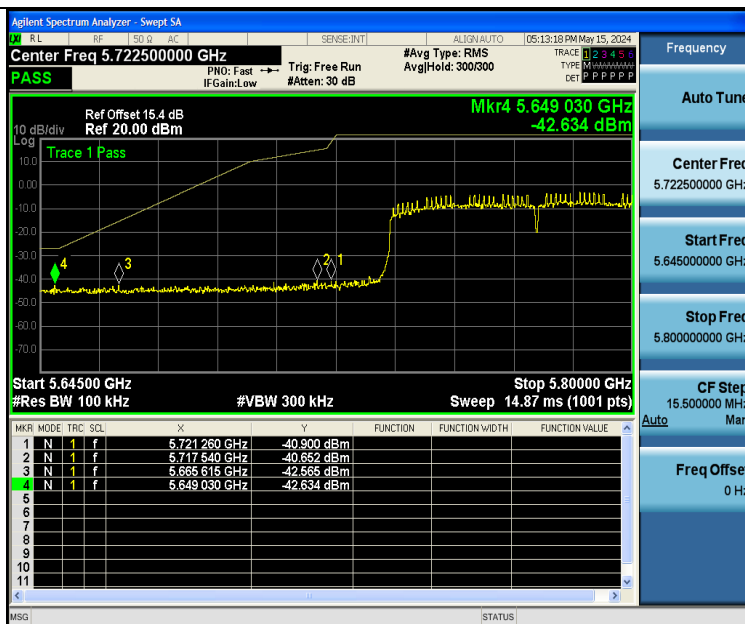
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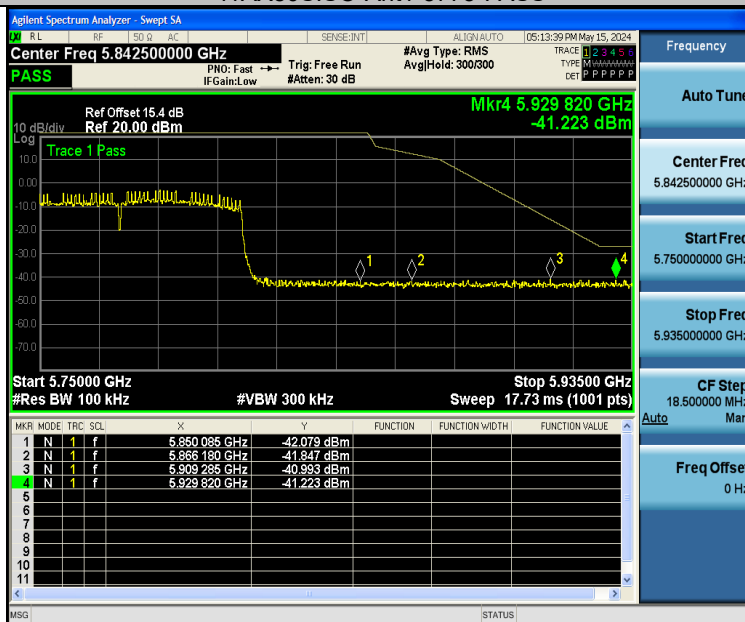
11AX40SISO-Ant1-5755-PASS

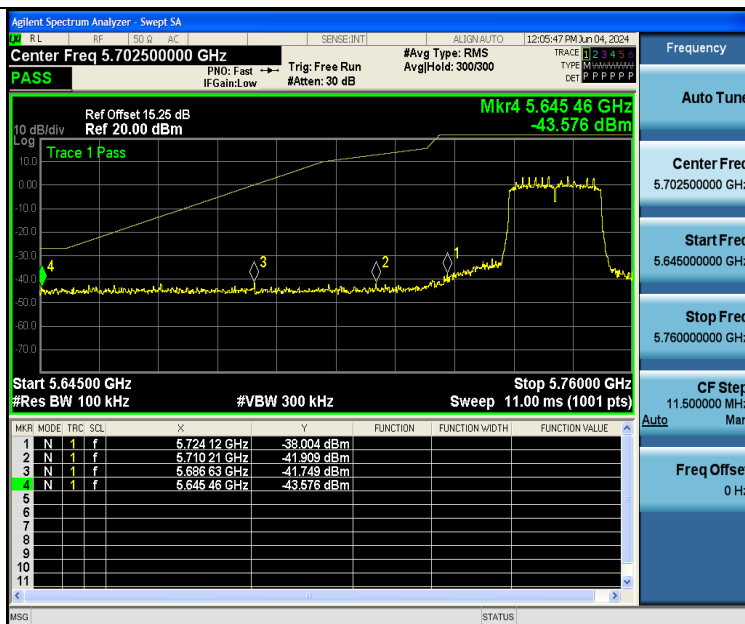


11AX40SISO-Ant1-5795-PASS

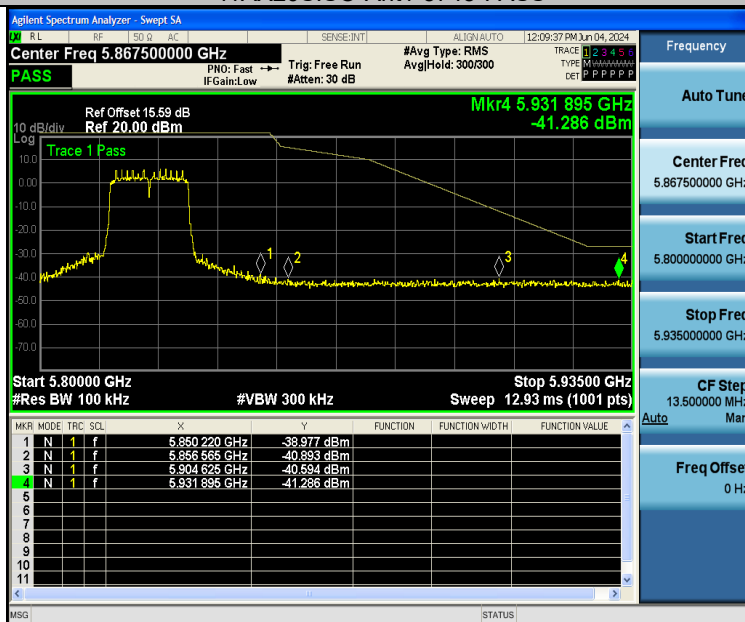


11AX80SISO-Ant1-5775-PASS

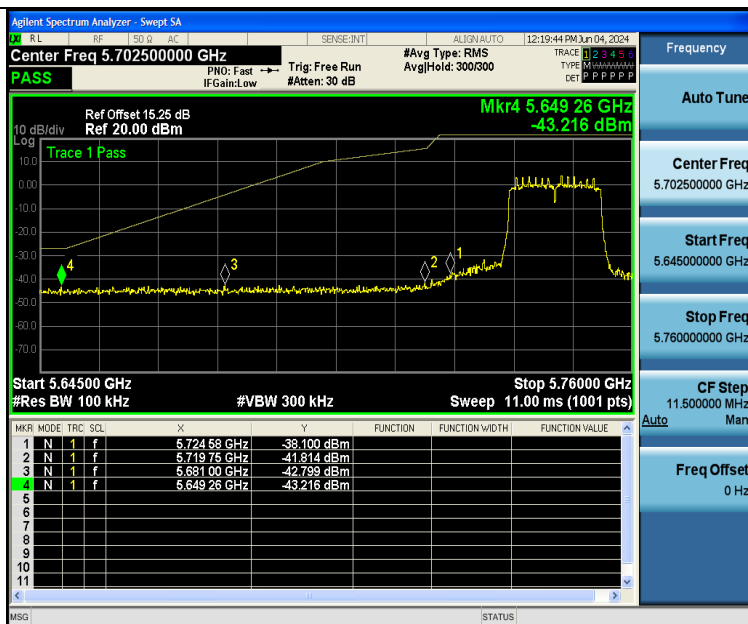




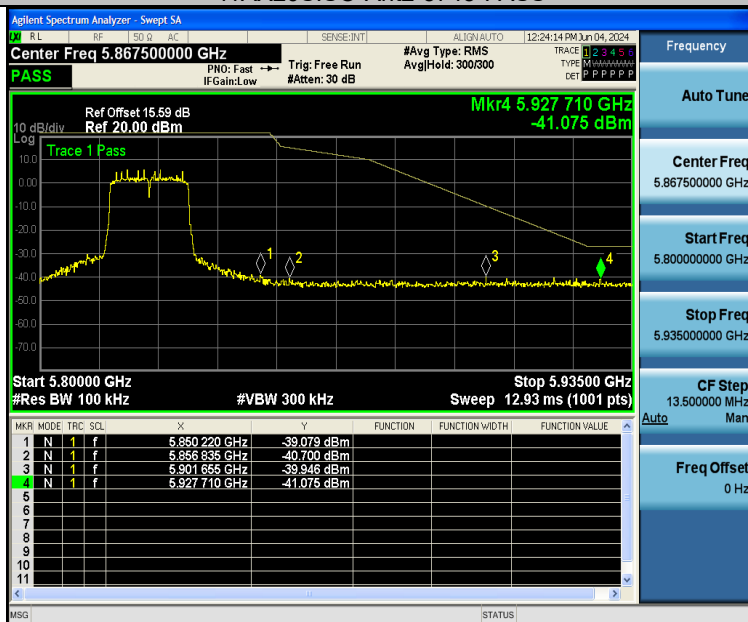
11AX20SISO-Ant1-5745-PASS



11AX20SISO-Ant1-5825-PASS



11AX20SISO-Ant2-5745-PASS



11AX20SISO-Ant2-5825-PASS



6.7 Restricted Band

Test Requirement : FCC Part15 E Section 15.407(b)

Test site : Measurement Distance: 3m

Test Limit :

Frequency	Limit (dBuV/m @3m)	Remark
Above 1GHz	74	Peak Value
	54	Average Value

Test Procedure:

1. The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

Test Result:

Worst case mode:		ANT2: 802.11a(6Mbps)		Test channel:		36		
NO.	Freq. [MHz]	level [dBμV/m]	Factor [dB]	Emission level [dBμV/m]	Limit [dBμV/m]	Over [dB]	Polarity	Detector Type
1	5150	50.45	6.53	56.98	74	17.02	H	Peak
2	5150	40.16	6.53	46.69	54	7.31	H	Average
3	5150	49.22	6.53	55.75	74	18.25	V	Peak
4	5150	38.12	6.53	44.65	54	9.35	V	Average



Worst case mode:		ANT2: 802.11a(6Mbps)		Test channel:		48		
NO.	Freq. [MHz]	level [dBμV/ m]	Factor [dB]	Emission level [dBμV/m]	Limit [dBμV/m]	Over [dB]	Polarity	Detector Type
1	5350	50.42	6.56	56.98	74	17.02	H	Peak
2	5350	40.18	6.56	46.74	54	7.26	H	Average
3	5350	49.82	6.56	56.38	74	17.62	V	Peak
4	5350	38.46	6.56	45.02	54	8.98	V	Average

Worst case mode:		ANT2: 802.11a(6Mbps)		Test channel:		165		
NO.	Freq. [MHz]	level [dBμV/ m]	Factor [dB]	Emission level [dBμV/m]	Limit [dBμV/m]	Over [dB]	Polarity	Detector Type
1	5850	49.48	6.64	56.12	74	17.88	H	Peak
2	5850	40.03	6.64	46.67	54	7.33	H	Average
3	5850	49.25	6.64	55.89	74	18.11	V	Peak
4	5850	37.68	6.64	44.32	54	9.68	V	Average

Note: Only recorded the worst case in the report.



7 Emission Bandwidth and Occupied Bandwidth

Test Requirement	: FCC CFR47 Part 15 Section 15.407(a)(e)
Test Method	: ANSI C63.10:2013 According to FCC §15.407(a), The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less.
Test Limit	: Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth. As per FCC §15.407(e): for equipment operating in the band 5725 – 5850 MHz, the minimum 6 dB bandwidth of U-NII devices shall be 500 kHz.

7.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01,
Emission Bandwidth (EBW)

a) Set RBW = approximately 1% of the emission bandwidth; b) Set the VBW > RBW; c) Detector = Peak; d) Trace mode = max hold; e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%; 99% Occupied Bandwidth
The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set $VBW \geq 3 \cdot RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency.



The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

7.2 Test Result

PASS

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.

Following channel was selected for the final test as listed below.

26 dB emission bandwidth:

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.960	5169.160	5192.120	---	---
11A	Ant2	5180	22.760	5168.960	5191.720	---	---
11A	Ant1	5200	22.320	5189.240	5211.560	---	---
11A	Ant2	5200	21.800	5189.320	5211.120	---	---
11A	Ant1	5240	22.960	5228.600	5251.560	---	---
11A	Ant2	5240	23.040	5228.440	5251.480	---	---
11A	Ant1	5745	23.200	5733.240	5756.440	---	---
11A	Ant2	5745	22.720	5733.600	5756.320	---	---
11A	Ant1	5785	22.920	5773.560	5796.480	---	---
11A	Ant2	5785	23.240	5773.320	5796.560	---	---
11A	Ant1	5825	23.200	5813.040	5836.240	---	---
11A	Ant2	5825	24.120	5813.000	5837.120	---	---
11N20SISO	Ant1	5180	22.880	5168.800	5191.680	---	---
11N20SISO	Ant2	5180	21.840	5169.200	5191.040	---	---
11N20SISO	Ant1	5200	23.160	5188.520	5211.680	---	---
11N20SISO	Ant2	5200	21.080	5189.400	5210.480	---	---
11N20SISO	Ant1	5240	23.400	5228.200	5251.600	---	---
11N20SISO	Ant2	5240	23.280	5228.360	5251.640	---	---
11N20SISO	Ant1	5745	23.520	5733.120	5756.640	---	---
11N20SISO	Ant2	5745	24.560	5732.640	5757.200	---	---
11N20SISO	Ant1	5785	23.120	5773.440	5796.560	---	---
11N20SISO	Ant2	5785	24.000	5773.200	5797.200	---	---
11N20SISO	Ant1	5825	23.800	5813.320	5837.120	---	---
11N20SISO	Ant2	5825	23.880	5813.320	5837.200	---	---
11N40SISO	Ant1	5190	42.160	5169.200	5211.360	---	---
11N40SISO	Ant2	5190	42.080	5169.440	5211.520	---	---
11N40SISO	Ant1	5230	42.960	5208.800	5251.760	---	---
11N40SISO	Ant2	5230	43.360	5209.360	5252.720	---	---
11N40SISO	Ant1	5755	44.880	5732.920	5777.800	---	---
11N40SISO	Ant2	5755	44.960	5732.840	5777.800	---	---
11N40SISO	Ant1	5795	44.080	5773.560	5817.640	---	---
11N40SISO	Ant2	5795	44.960	5772.840	5817.800	---	---
11AC20SISO	Ant1	5180	22.560	5169.080	5191.640	---	---
11AC20SISO	Ant2	5180	22.360	5169.040	5191.400	---	---
11AC20SISO	Ant1	5200	22.960	5188.480	5211.440	---	---
11AC20SISO	Ant2	5200	21.760	5189.520	5211.280	---	---
11AC20SISO	Ant1	5240	22.600	5228.880	5251.480	---	---
11AC20SISO	Ant2	5240	22.920	5228.720	5251.640	---	---
11AC20SISO	Ant1	5745	23.680	5732.840	5756.520	---	---
11AC20SISO	Ant2	5745	23.000	5733.480	5756.480	---	---



11AC20SISO	Ant1	5785	23.040	5773.400	5796.440	---	---
11AC20SISO	Ant2	5785	23.720	5773.160	5796.880	---	---
11AC20SISO	Ant1	5825	23.320	5813.040	5836.360	---	---
11AC20SISO	Ant2	5825	23.440	5813.200	5836.640	---	---
11AC40SISO	Ant1	5190	42.400	5169.120	5211.520	---	---
11AC40SISO	Ant2	5190	41.760	5169.520	5211.280	---	---
11AC40SISO	Ant1	5230	42.960	5208.640	5251.600	---	---
11AC40SISO	Ant2	5230	43.600	5209.520	5253.120	---	---
11AC40SISO	Ant1	5755	44.080	5733.640	5777.720	---	---
11AC40SISO	Ant2	5755	44.080	5733.640	5777.720	---	---
11AC40SISO	Ant1	5795	44.400	5773.480	5817.880	---	---
11AC40SISO	Ant2	5795	44.880	5773.160	5818.040	---	---
11AC80SISO	Ant1	5210	83.680	5169.360	5253.040	---	---
11AC80SISO	Ant2	5210	109.120	5170.320	5279.440	---	---
11AC80SISO	Ant1	5775	84.480	5733.080	5817.560	---	---
11AC80SISO	Ant2	5775	84.960	5734.200	5819.160	---	---
11AX40SISO	Ant1	5190	40.720	5169.680	5210.400	---	---
11AX40SISO	Ant1	5230	40.880	5209.920	5250.800	---	---
11AX40SISO	Ant1	5755	40.640	5734.680	5775.320	---	---
11AX40SISO	Ant1	5795	41.040	5774.600	5815.640	---	---
11AX80SISO	Ant1	5210	81.280	5169.840	5251.120	---	---
11AX80SISO	Ant1	5775	80.480	5735.000	5815.480	---	---
11AX40SISO	Ant2	5190	40.240	5170.080	5210.320	---	---
11AX40SISO	Ant2	5230	40.480	5209.840	5250.320	---	---
11AX40SISO	Ant2	5755	41.120	5734.440	5775.560	---	---
11AX40SISO	Ant2	5795	40.400	5775.160	5815.560	---	---
11AX80SISO	Ant2	5210	80.800	5170.000	5250.800	---	---
11AX80SISO	Ant2	5775	80.800	5735.160	5815.960	---	---
11AX20SISO	Ant1	5180	19.440	5170.240	5189.680	---	---
11AX20SISO	Ant1	5200	19.280	5190.320	5209.600	---	---
11AX20SISO	Ant1	5240	19.520	5230.240	5249.760	---	---
11AX20SISO	Ant1	5745	19.480	5735.280	5754.760	---	---
11AX20SISO	Ant1	5785	19.400	5775.280	5794.680	---	---
11AX20SISO	Ant1	5825	19.480	5815.240	5834.720	---	---
11AX20SISO	Ant2	5180	19.480	5170.280	5189.760	---	---
11AX20SISO	Ant2	5200	19.360	5190.400	5209.760	---	---
11AX20SISO	Ant2	5240	19.480	5230.280	5249.760	---	---
11AX20SISO	Ant2	5745	19.520	5735.200	5754.720	---	---
11AX20SISO	Ant2	5785	19.320	5775.400	5794.720	---	---
11AX20SISO	Ant2	5825	19.480	5815.320	5834.800	---	---



minimum 6 dB bandwidth:

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.520	5736.200	5753.720	0.5	PASS
11A	Ant2	5745	17.560	5736.200	5753.760	0.5	PASS
11A	Ant1	5785	17.520	5776.200	5793.720	0.5	PASS
11A	Ant2	5785	17.120	5776.600	5793.720	0.5	PASS
11A	Ant1	5825	17.520	5816.200	5833.720	0.5	PASS
11A	Ant2	5825	17.520	5816.200	5833.720	0.5	PASS
11N20SISO	Ant1	5745	17.600	5736.160	5753.760	0.5	PASS
11N20SISO	Ant2	5745	17.320	5736.200	5753.520	0.5	PASS
11N20SISO	Ant1	5785	17.520	5776.200	5793.720	0.5	PASS
11N20SISO	Ant2	5785	17.280	5776.200	5793.480	0.5	PASS
11N20SISO	Ant1	5825	17.480	5816.200	5833.680	0.5	PASS
11N20SISO	Ant2	5825	17.520	5816.200	5833.720	0.5	PASS
11N40SISO	Ant1	5755	36.240	5736.840	5773.080	0.5	PASS
11N40SISO	Ant2	5755	36.000	5737.080	5773.080	0.5	PASS
11N40SISO	Ant1	5795	36.000	5777.080	5813.080	0.5	PASS
11N40SISO	Ant2	5795	36.240	5776.840	5813.080	0.5	PASS
11AC20SISO	Ant1	5745	17.400	5736.360	5753.760	0.5	PASS
11AC20SISO	Ant2	5745	17.160	5736.200	5753.360	0.5	PASS
11AC20SISO	Ant1	5785	16.880	5776.840	5793.720	0.5	PASS
11AC20SISO	Ant2	5785	17.120	5776.600	5793.720	0.5	PASS
11AC20SISO	Ant1	5825	17.120	5816.600	5833.720	0.5	PASS
11AC20SISO	Ant2	5825	17.520	5816.200	5833.720	0.5	PASS
11AC40SISO	Ant1	5755	36.240	5736.840	5773.080	0.5	PASS
11AC40SISO	Ant2	5755	36.240	5736.840	5773.080	0.5	PASS
11AC40SISO	Ant1	5795	36.240	5776.840	5813.080	0.5	PASS
11AC40SISO	Ant2	5795	36.000	5777.080	5813.080	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS
11AC80SISO	Ant2	5775	73.760	5738.680	5812.440	0.5	PASS
11AX40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
11AX40SISO	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
11AX80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS
11AX40SISO	Ant2	5755	35.120	5737.400	5772.520	0.5	PASS
11AX40SISO	Ant2	5795	35.200	5777.400	5812.600	0.5	PASS
11AX80SISO	Ant2	5775	72.480	5738.680	5811.160	0.5	PASS
11AX20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
11AX20SISO	Ant1	5785	16.920	5776.840	5793.760	0.5	PASS
11AX20SISO	Ant1	5825	17.520	5816.240	5833.760	0.5	PASS
11AX20SISO	Ant2	5745	16.800	5736.480	5753.280	0.5	PASS
11AX20SISO	Ant2	5785	17.280	5776.480	5793.760	0.5	PASS
11AX20SISO	Ant2	5825	17.560	5816.200	5833.760	0.5	PASS



Test Graphs:



11A-Ant1-5180



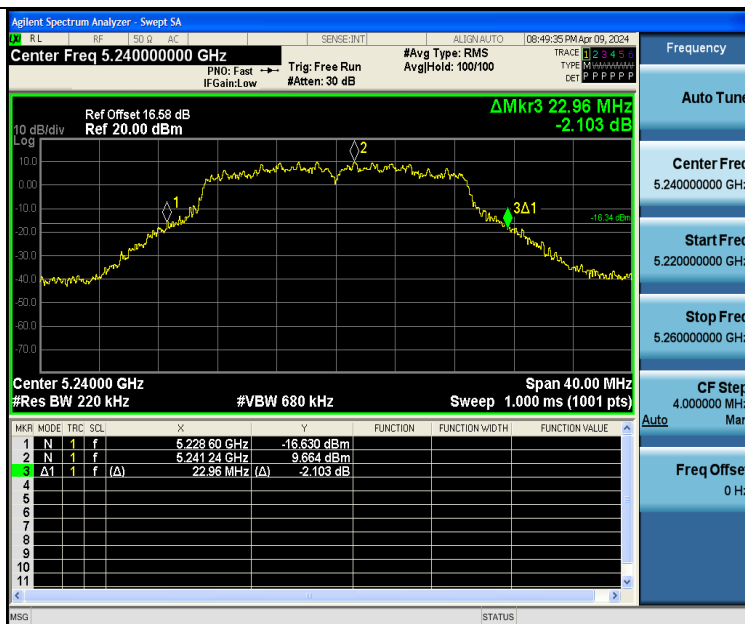
11A-Ant2-5180



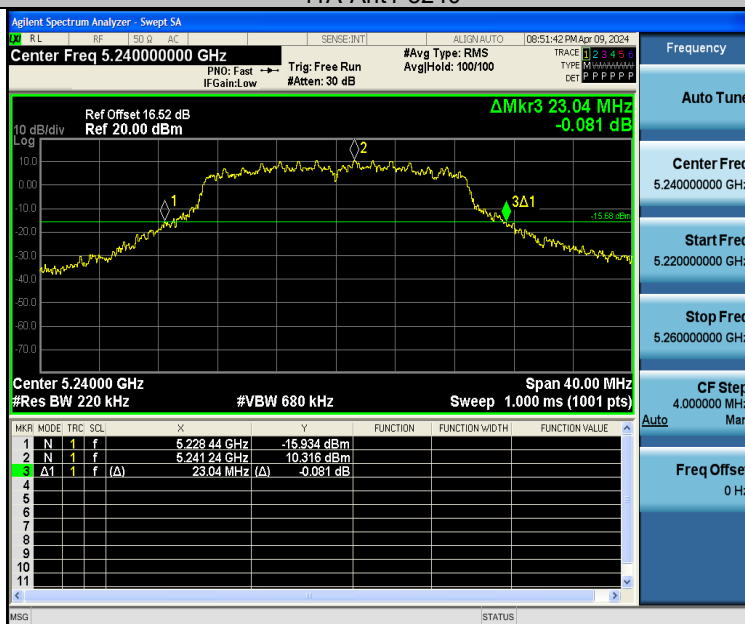
11A-Ant1-5200



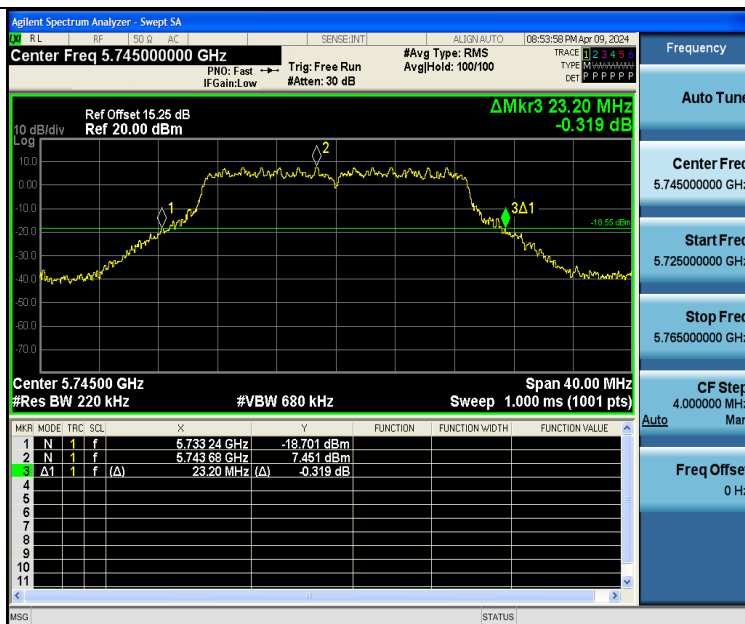
11A-Ant2-5200



11A-Ant1-5240



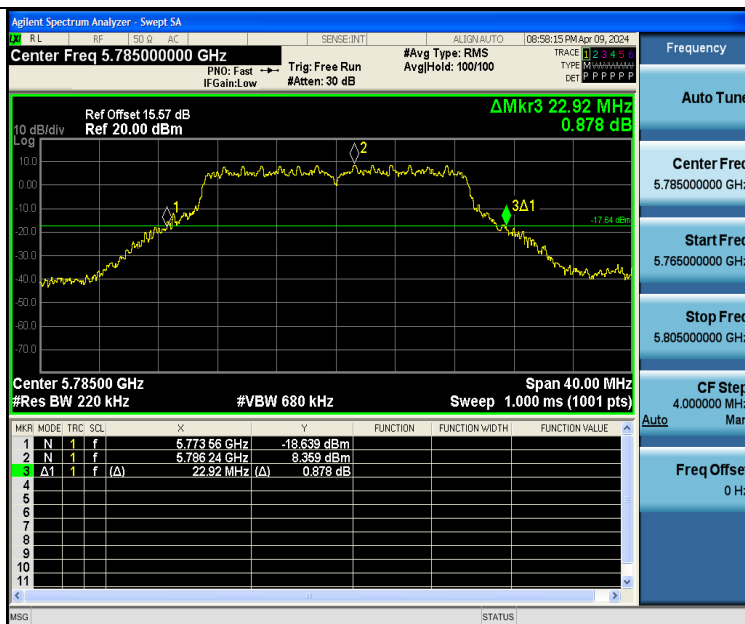
11A-Ant2-5240



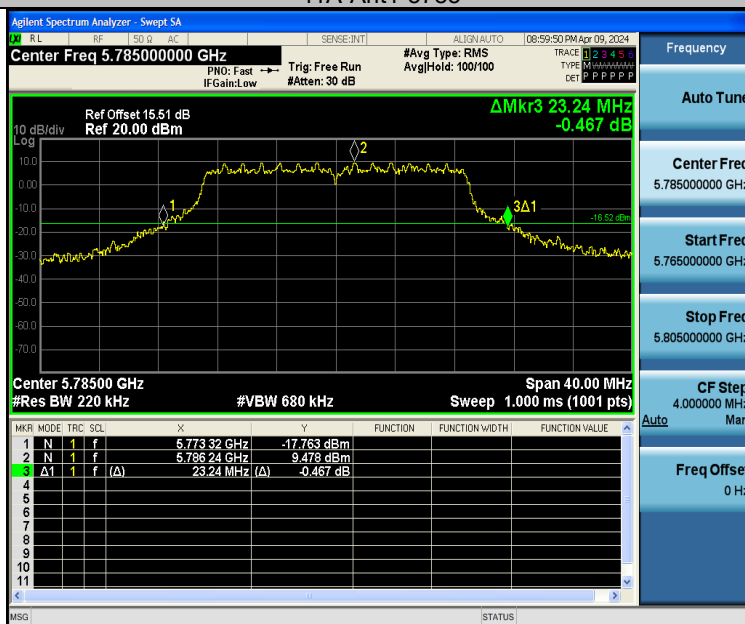
11A-Ant1-5745



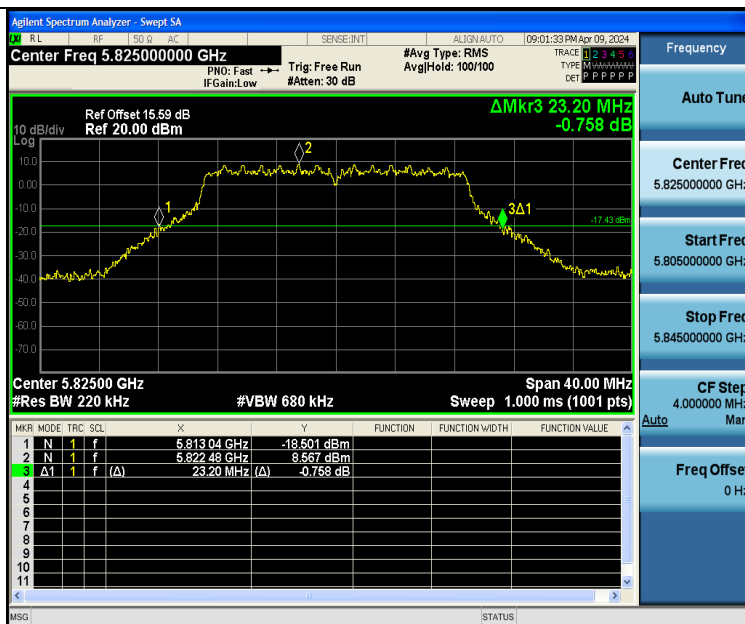
11A-Ant2-5745



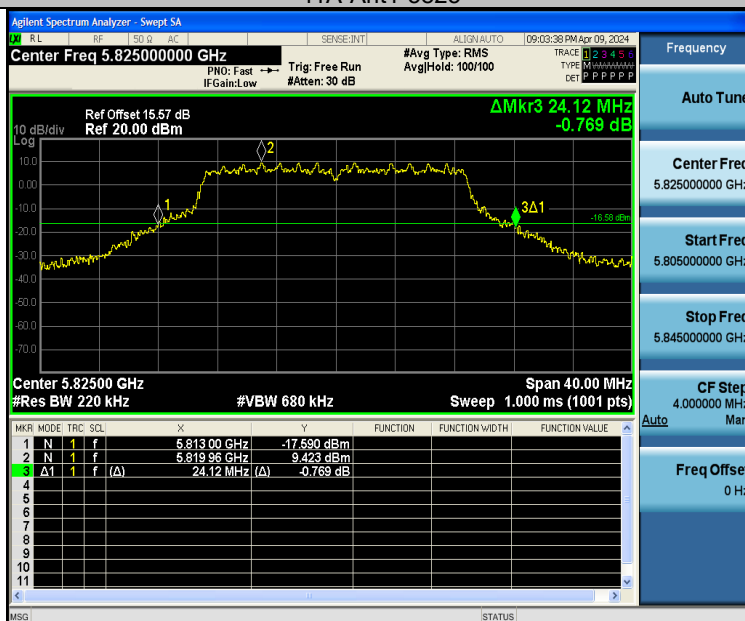
11A-Ant1-5785



11A-Ant2-5785



11A-Ant1-5825



11A-Ant2-5825



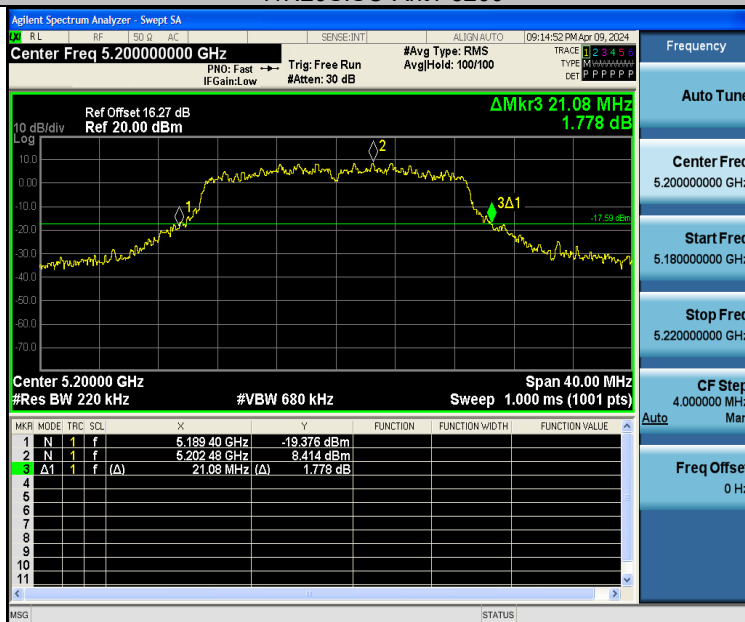
11N20SISO-Ant1-5180



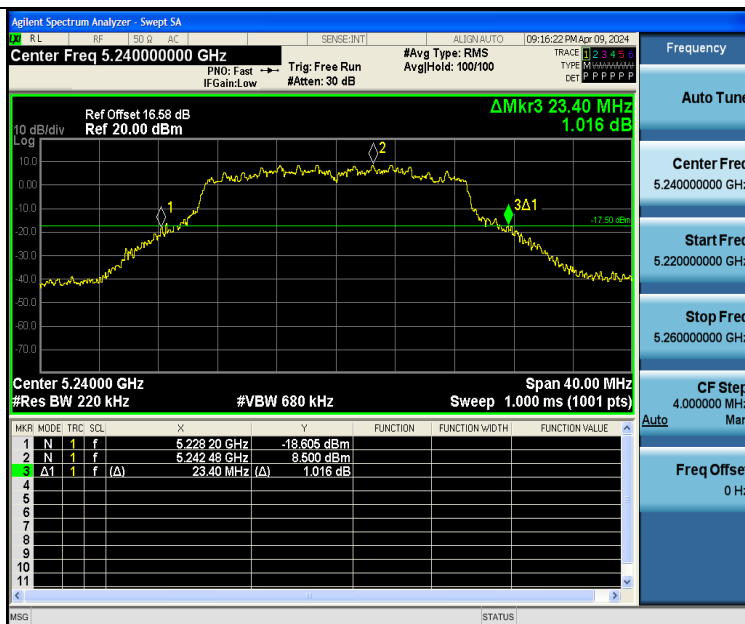
11N20SISO-Ant2-5180



11N20SISO-Ant1-5200



11N20SISO-Ant2-5200



11N20SISO-Ant1-5240



11N20SISO-Ant2-5240



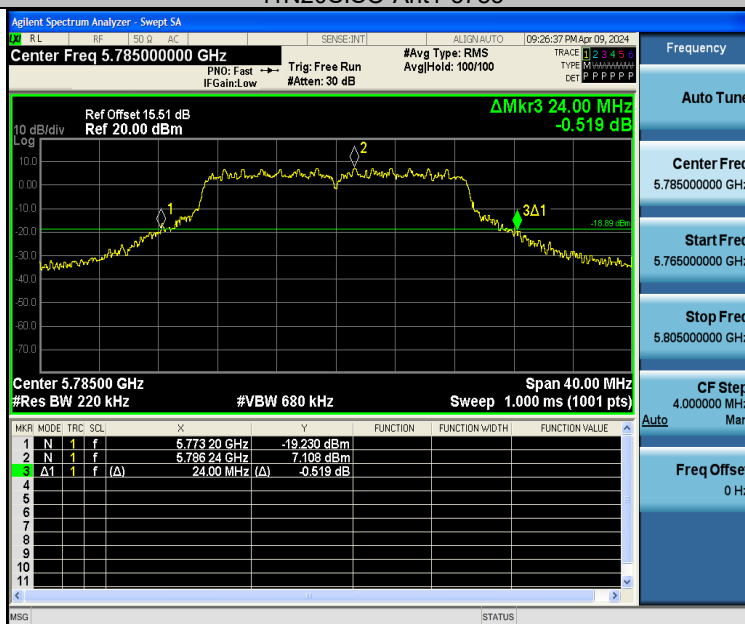
11N20SISO-Ant1-5745



11N20SISO-Ant2-5745



11N20SISO-Ant1-5785



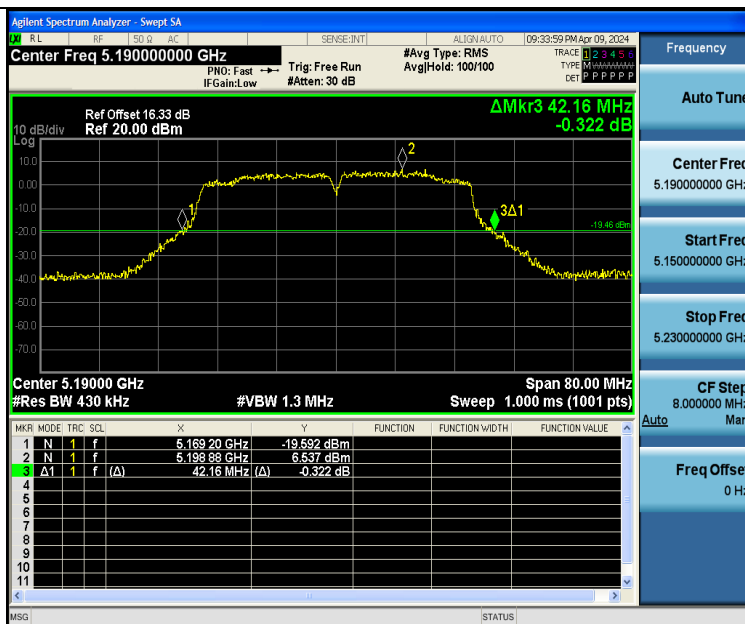
11N20SISO-Ant2-5785



11N20SISO-Ant1-5825



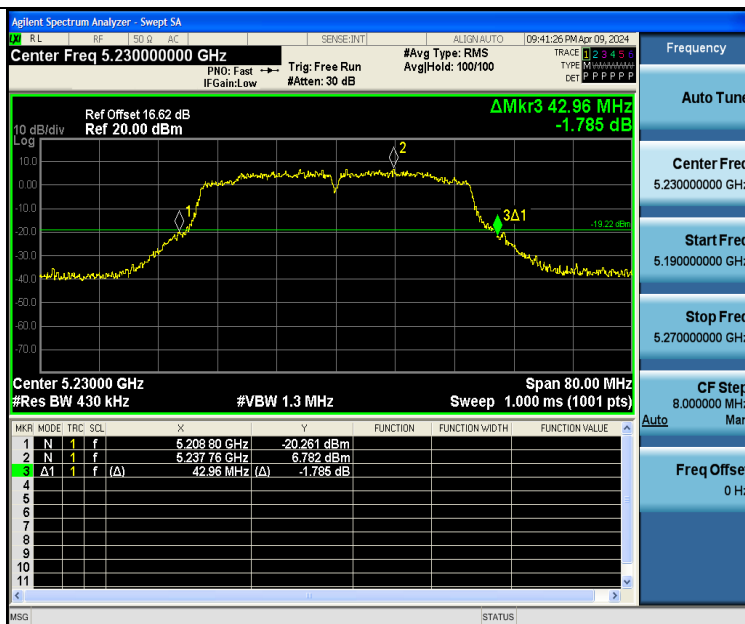
11N20SISO-Ant2-5825



11N40SISO-Ant1-5190



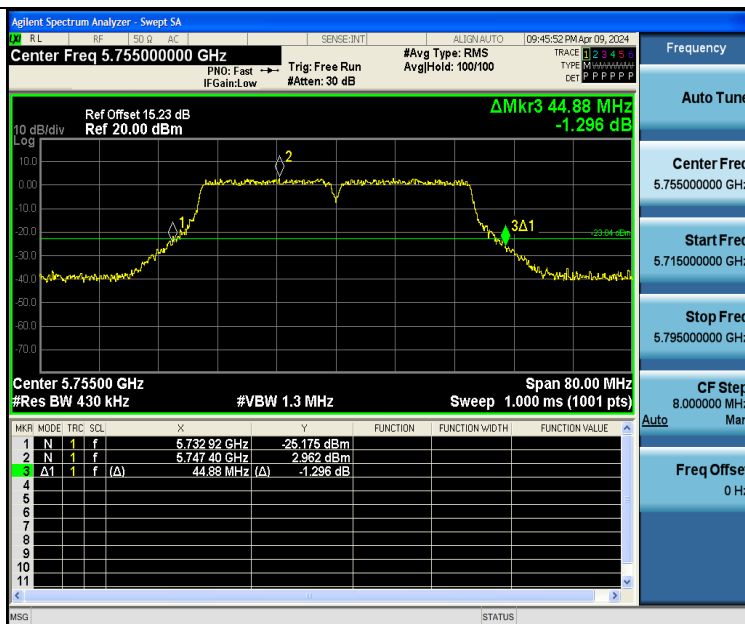
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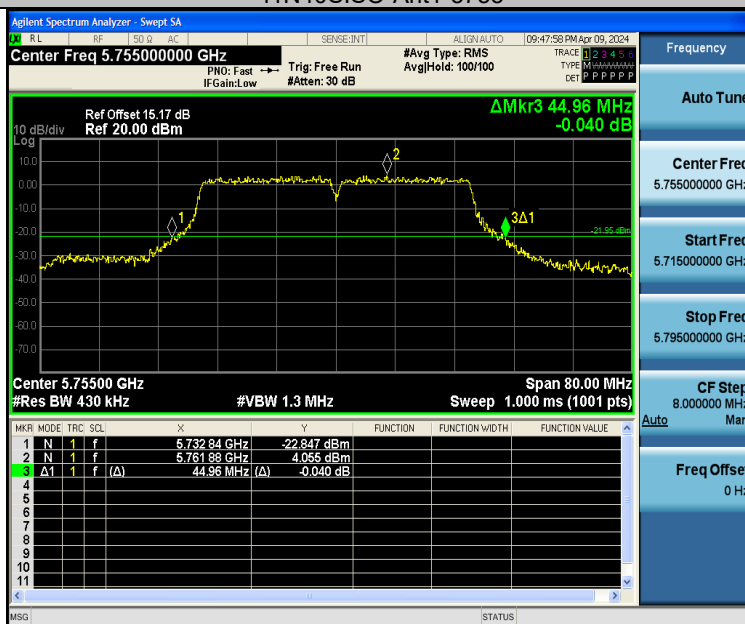
11N40SISO-Ant1-5230



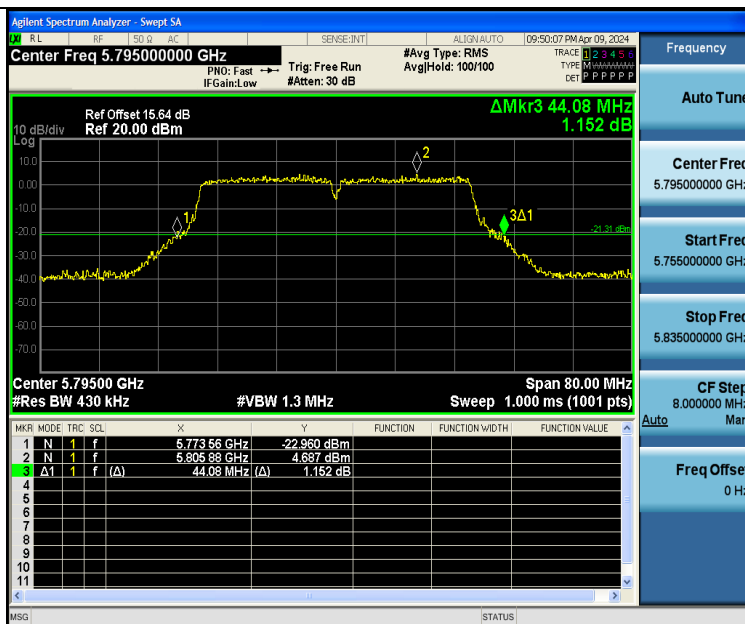
11N40SISO-Ant2-5230



11N40SISO-Ant1-5755



11N40SISO-Ant2-5755



11N40SISO-Ant1-5795



11N40SISO-Ant2-5795



11AC20SISO-Ant1-5180



11AC20SISO-Ant2-5180