

Case No. : <u>GTS20241123004-1-03</u>	
Ambient Condition: <u>22</u> °C, <u>55</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.12.5</u>	Test Engineer: <u>Evan ouyang</u>

Appendix C.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.840	5167.400	5192.240	---	---
		5200	24.800	5187.680	5212.480	---	---
		5240	23.720	5228.000	5251.720	---	---
11N20SISO	Ant1	5180	24.520	5167.920	5192.440	---	---
		5200	25.840	5187.440	5213.280	---	---
		5240	25.360	5227.200	5252.560	---	---
11N40SISO	Ant1	5190	46.160	5167.040	5213.200	---	---
		5230	46.880	5206.640	5253.520	---	---
11AC20SISO	Ant1	5180	25.160	5167.600	5192.760	---	---
		5200	25.800	5187.360	5213.160	---	---
		5240	26.040	5226.800	5252.840	---	---
11AC40SISO	Ant1	5190	45.440	5167.760	5213.200	---	---
		5230	44.480	5207.760	5252.240	---	---
11AX20SISO	Ant1	5180	24.760	5167.760	5192.520	---	---
		5200	23.960	5188.480	5212.440	---	---
		5240	25.520	5227.240	5252.760	---	---
11AX40SISO	Ant1	5190	44.080	5167.920	5212.000	---	---
		5230	44.400	5207.840	5252.240	---	---

Test Graphs



11A_Ant1_5200

Frequency
Auto Tune
Center Freq 5.20000000 GHz
Start Freq 5.180000000 GHz
Stop Freq 5.220000000 GHz
CF Step 4.000000 MHz
Freq Offset 0 Hz

11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AX20SISO_Ant1_5180



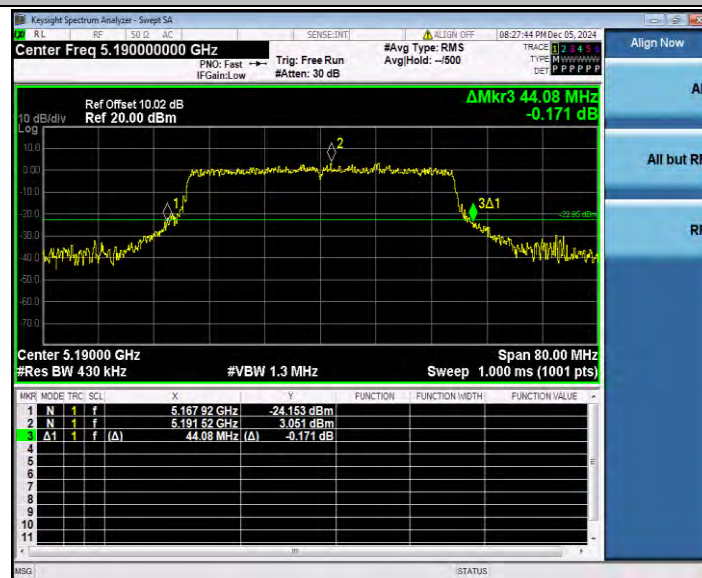
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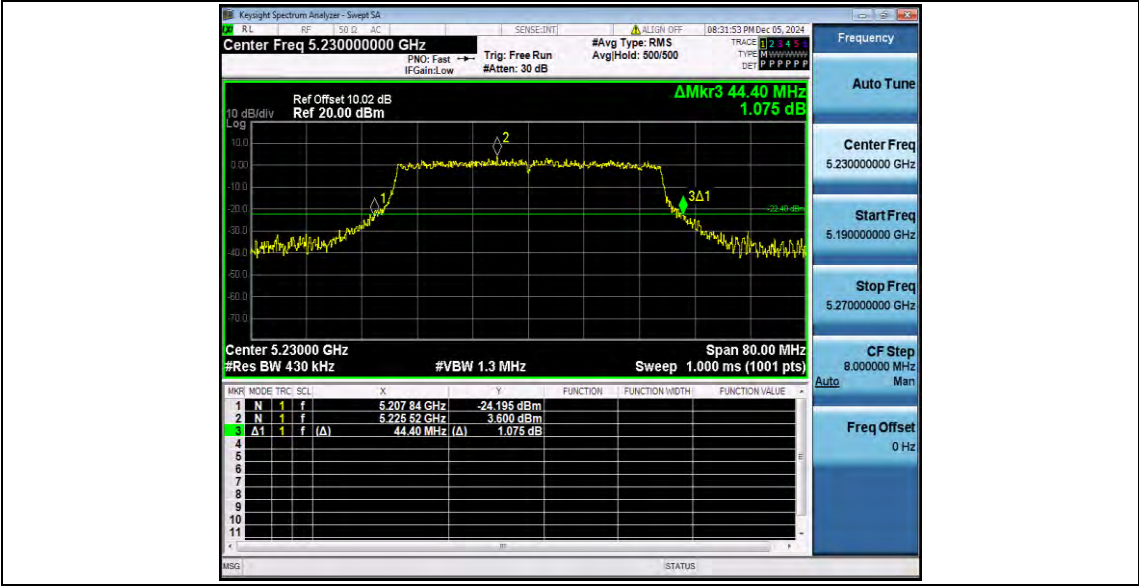
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11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



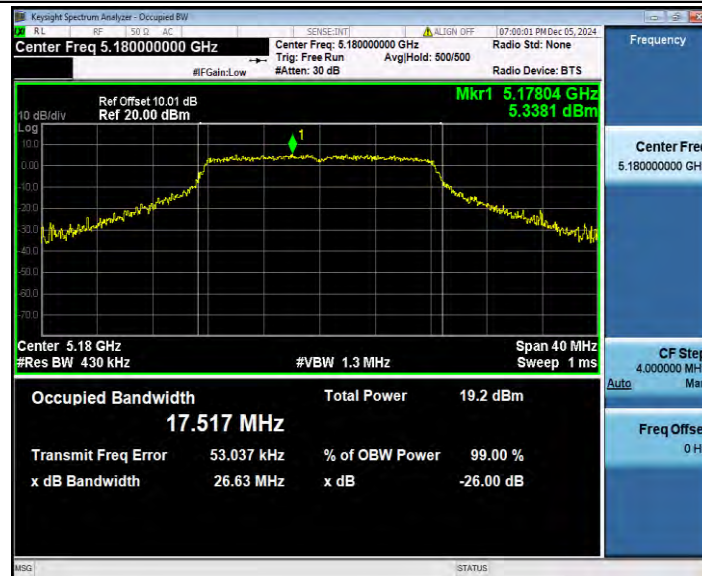
Appendix C.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.517	5171.2945	5188.8115	---	---
		5200	17.473	5191.2566	5208.7296	---	---
		5240	17.524	5231.1602	5248.6842	---	---
11N20SISO	Ant1	5180	18.725	5170.7146	5189.4396	---	---
		5200	18.737	5190.7395	5209.4765	---	---
		5240	18.786	5230.6295	5249.4155	---	---
11N40SISO	Ant1	5190	37.169	5171.5691	5208.7381	---	---
		5230	37.175	5211.4365	5248.6115	---	---
11AC20SISO	Ant1	5180	18.725	5170.7451	5189.4701	---	---
		5200	18.735	5190.7593	5209.4943	---	---
		5240	18.714	5230.7268	5249.4408	---	---
11AC40SISO	Ant1	5190	37.315	5171.5335	5208.8485	---	---
		5230	37.272	5211.4514	5248.7234	---	---
11AX20SISO	Ant1	5180	19.369	5170.3532	5189.7222	---	---
		5200	19.400	5190.3956	5209.7956	---	---
		5240	19.385	5230.4309	5249.8159	---	---
11AX40SISO	Ant1	5190	38.297	5171.0506	5209.3476	---	---
		5230	38.185	5210.9703	5249.1553	---	---

Test Graphs

11A_Ant1_5180



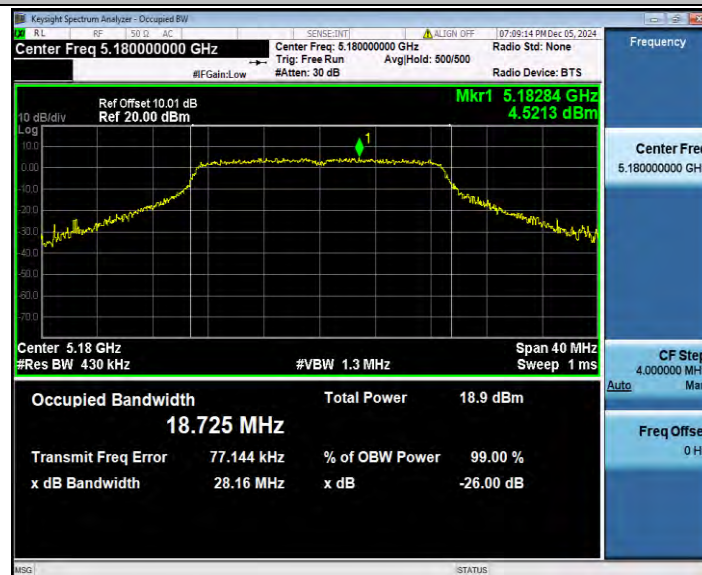
11A_Ant1_5200



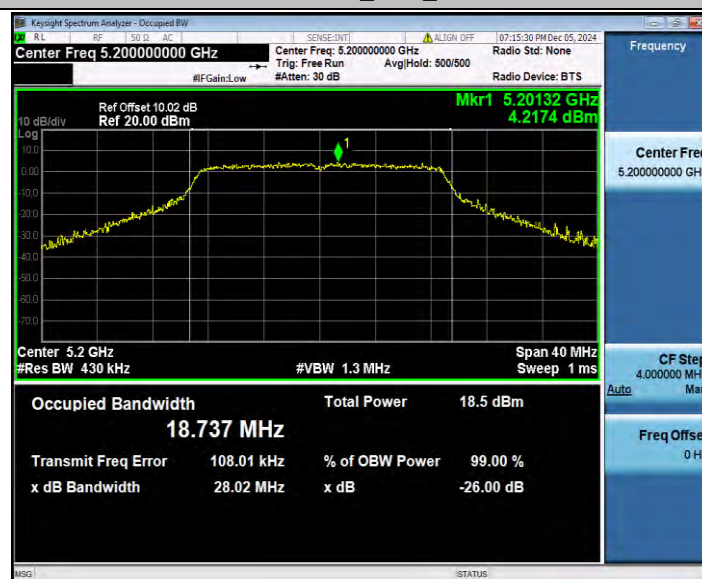
11A_Ant1_5240



11N20SISO_Ant1_5180



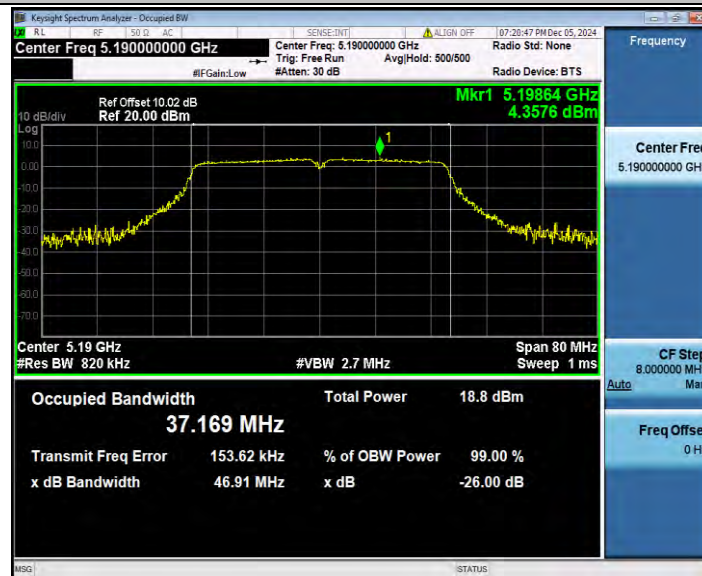
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11N20SISO_Ant1_5240



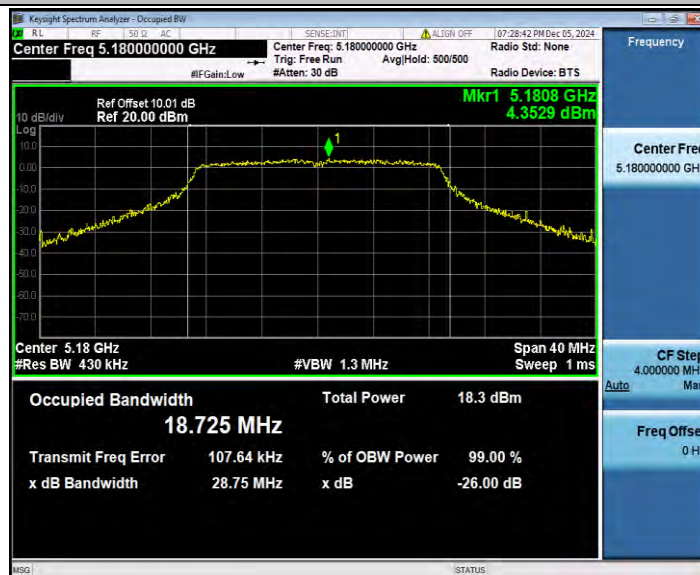
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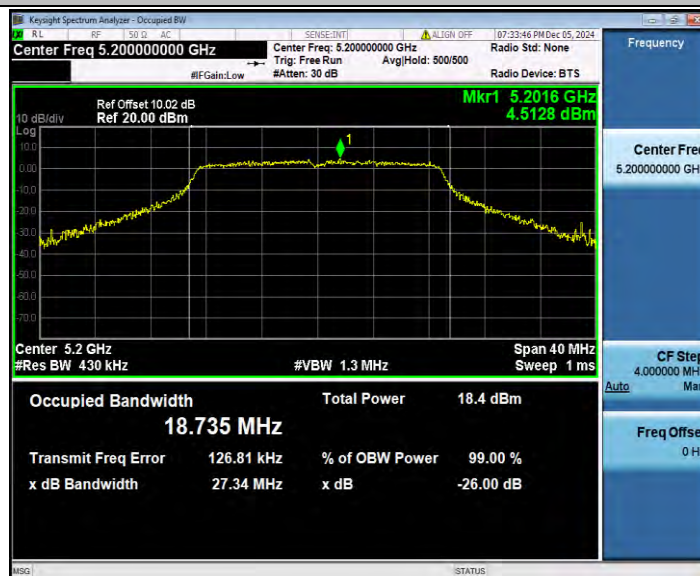
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11AC20SISO_Ant1_5180



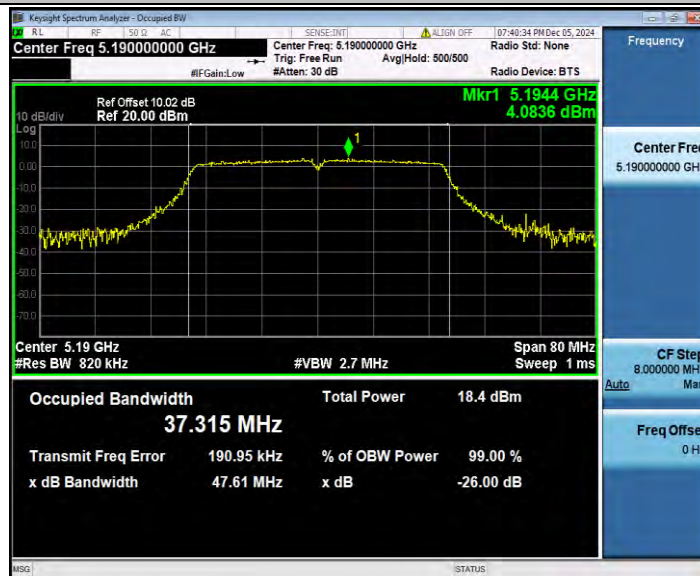
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11AC20SISO_Ant1_5240



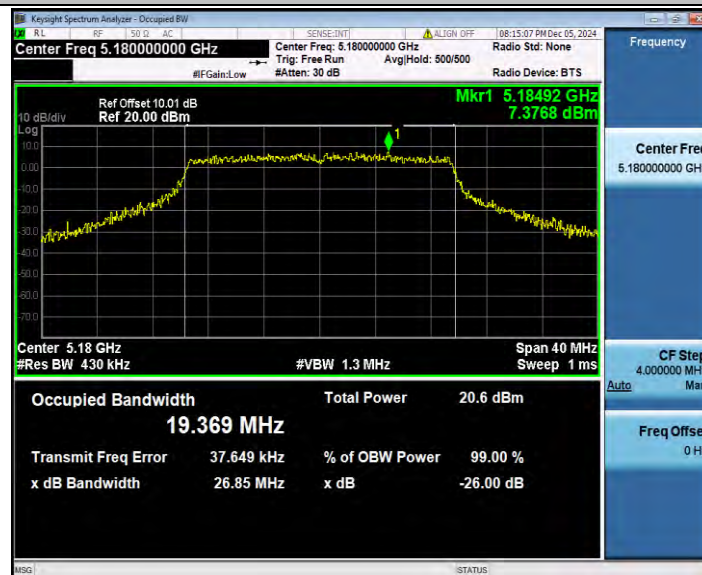
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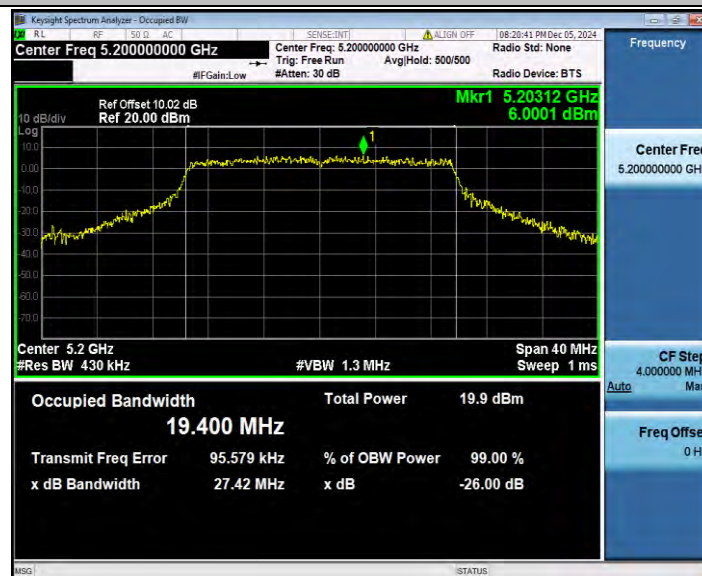
11AC40SISO_Ant1_5230



11AX20SISO_Ant1_5180



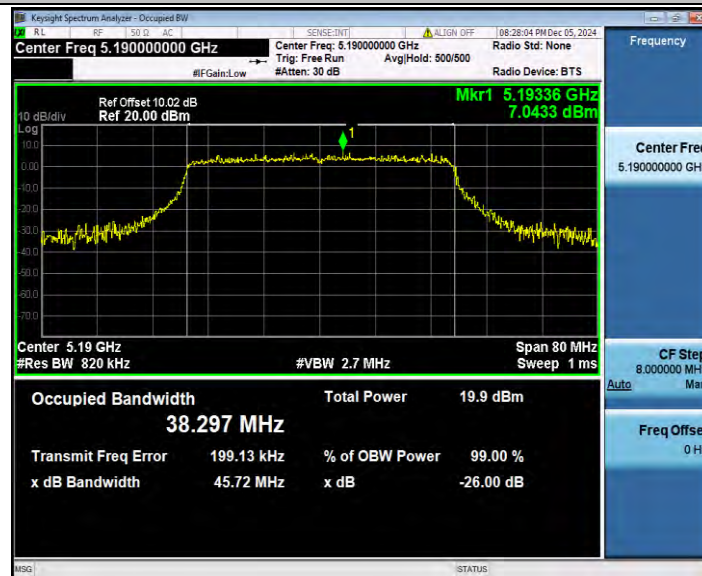
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11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

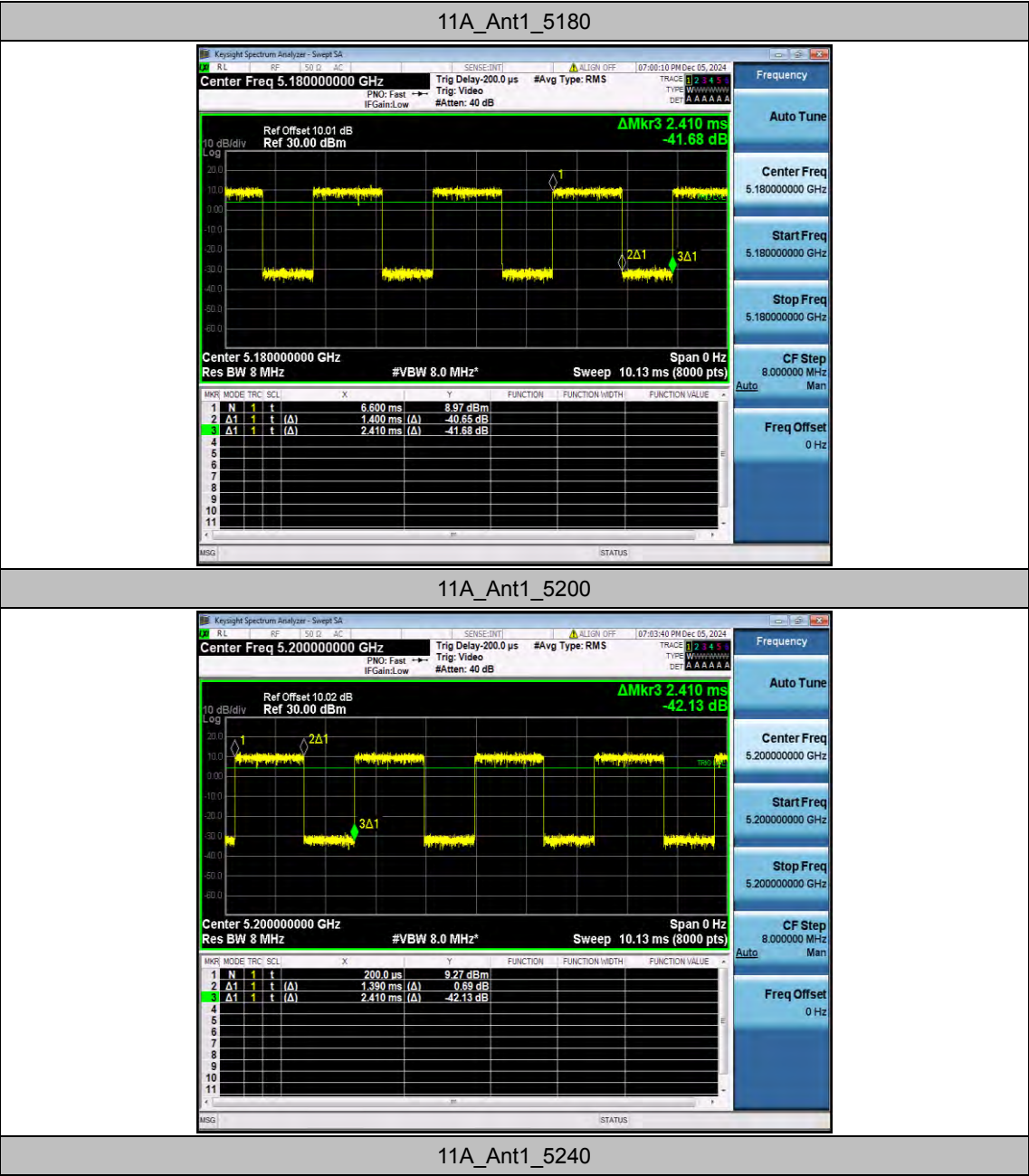


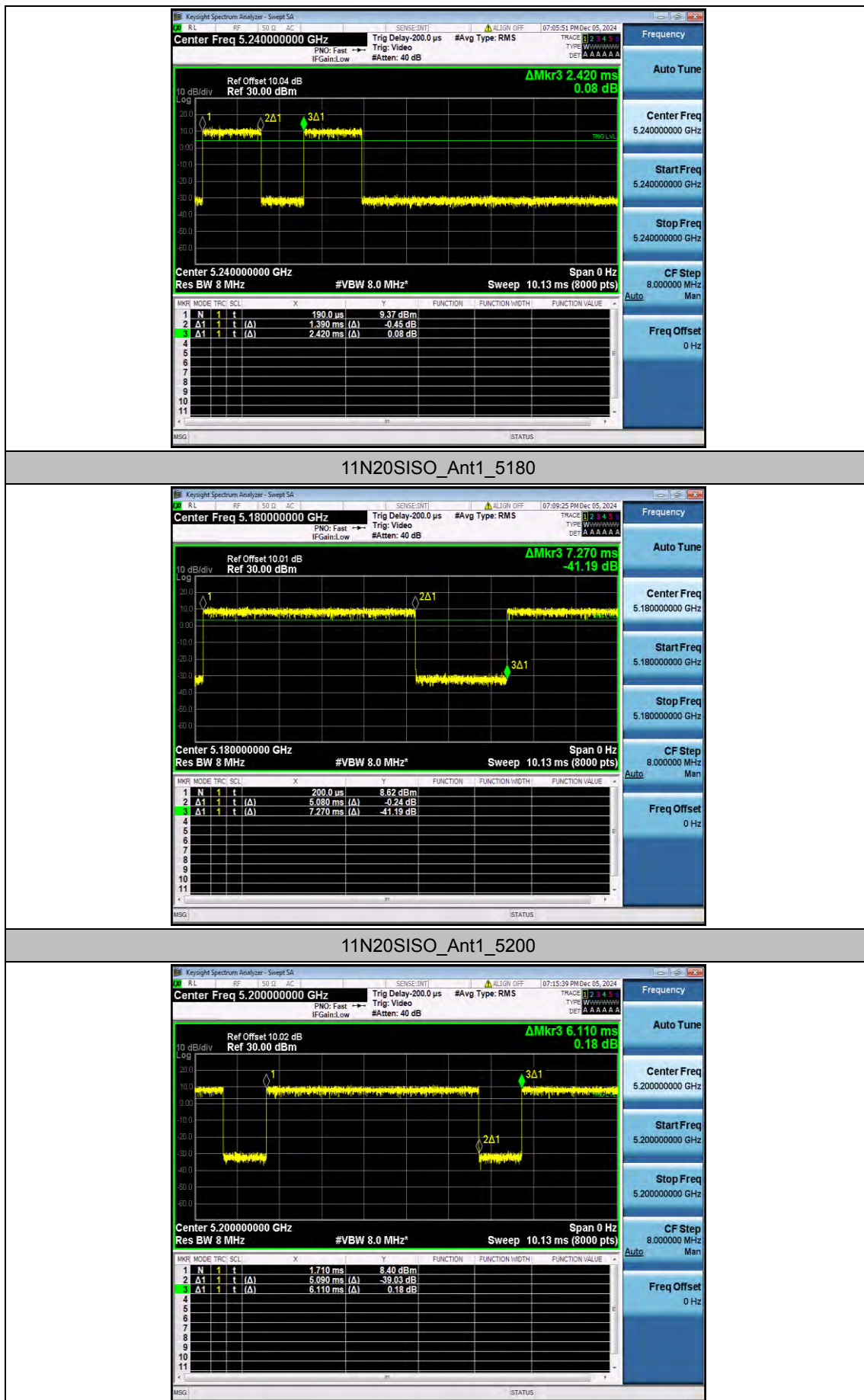
Appendix C.3: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	1.40	2.41	58.09	2.36	0.71
		5200	1.39	2.41	57.68	2.39	0.72
		5240	1.39	2.42	57.44	2.41	0.72
11N20SISO	Ant1	5180	5.08	7.27	69.88	1.56	0.20
		5200	5.09	6.11	83.31	0.79	0.20
		5240	5.08	6.10	83.28	0.79	0.20
11N40SISO	Ant1	5190	2.47	3.49	70.77	1.50	0.40
		5230	2.47	3.49	70.77	1.50	0.40
11AC20SISO	Ant1	5180	5.10	6.12	83.33	0.79	0.20
		5200	5.10	6.12	83.33	0.79	0.20
		5240	5.09	6.12	83.17	0.80	0.20
11AC40SISO	Ant1	5190	4.91	5.93	82.80	0.82	0.20
		5230	4.90	5.92	82.77	0.82	0.20
11AX20SISO	Ant1	5180	3.87	4.89	79.14	1.02	0.26
		5200	3.87	4.89	79.14	1.02	0.26
		5240	3.88	4.90	79.18	1.01	0.26
11AX40SISO	Ant1	5190	3.87	5.53	69.98	1.55	0.26
		5230	3.87	6.42	60.28	2.20	0.26

Test Graphs

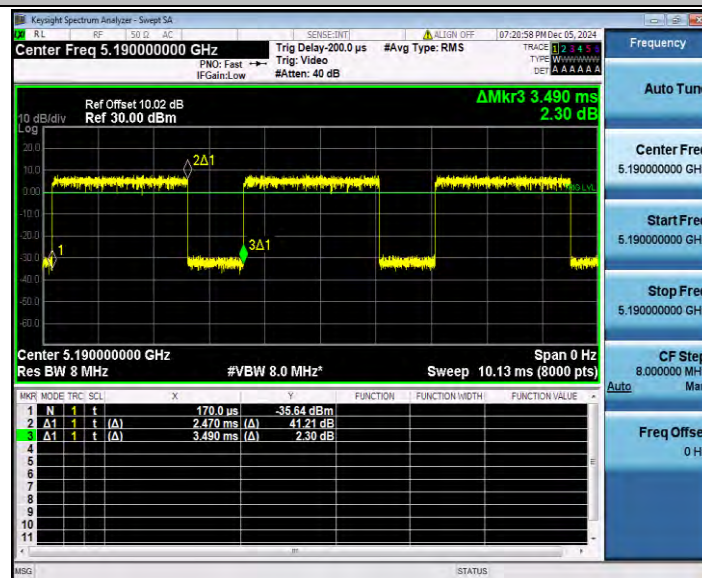




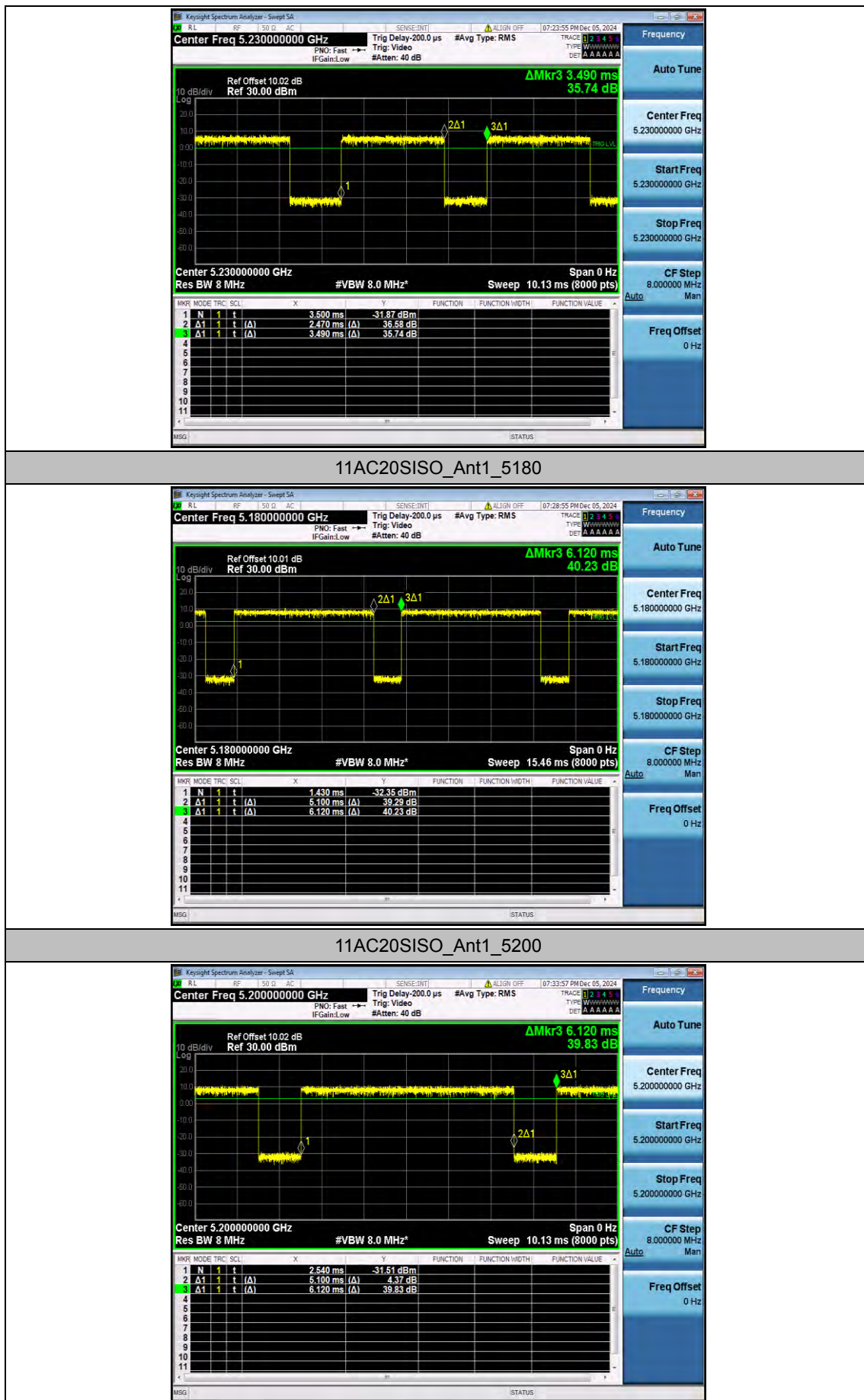
11N20SISO_Ant1_5240



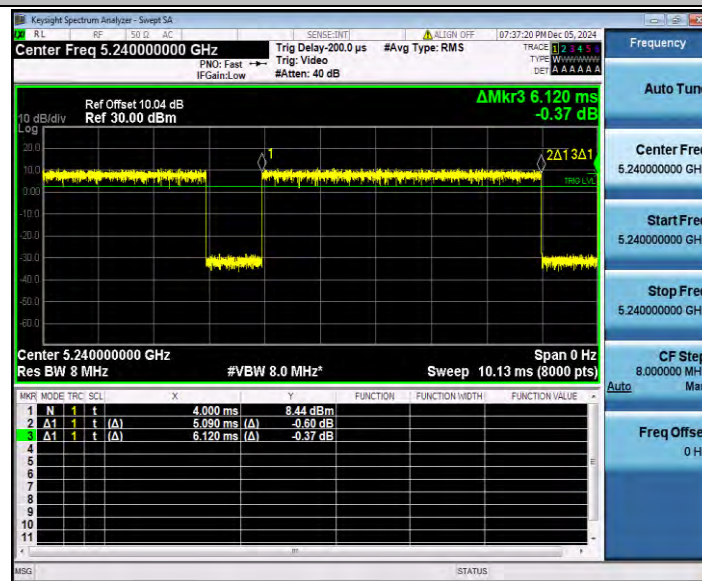
11N40SISO_Ant1_5190



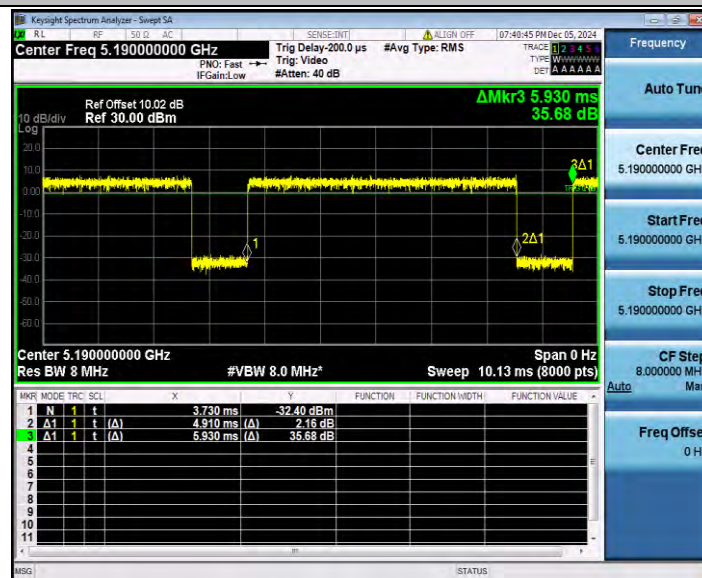
11N40SISO_Ant1_5230



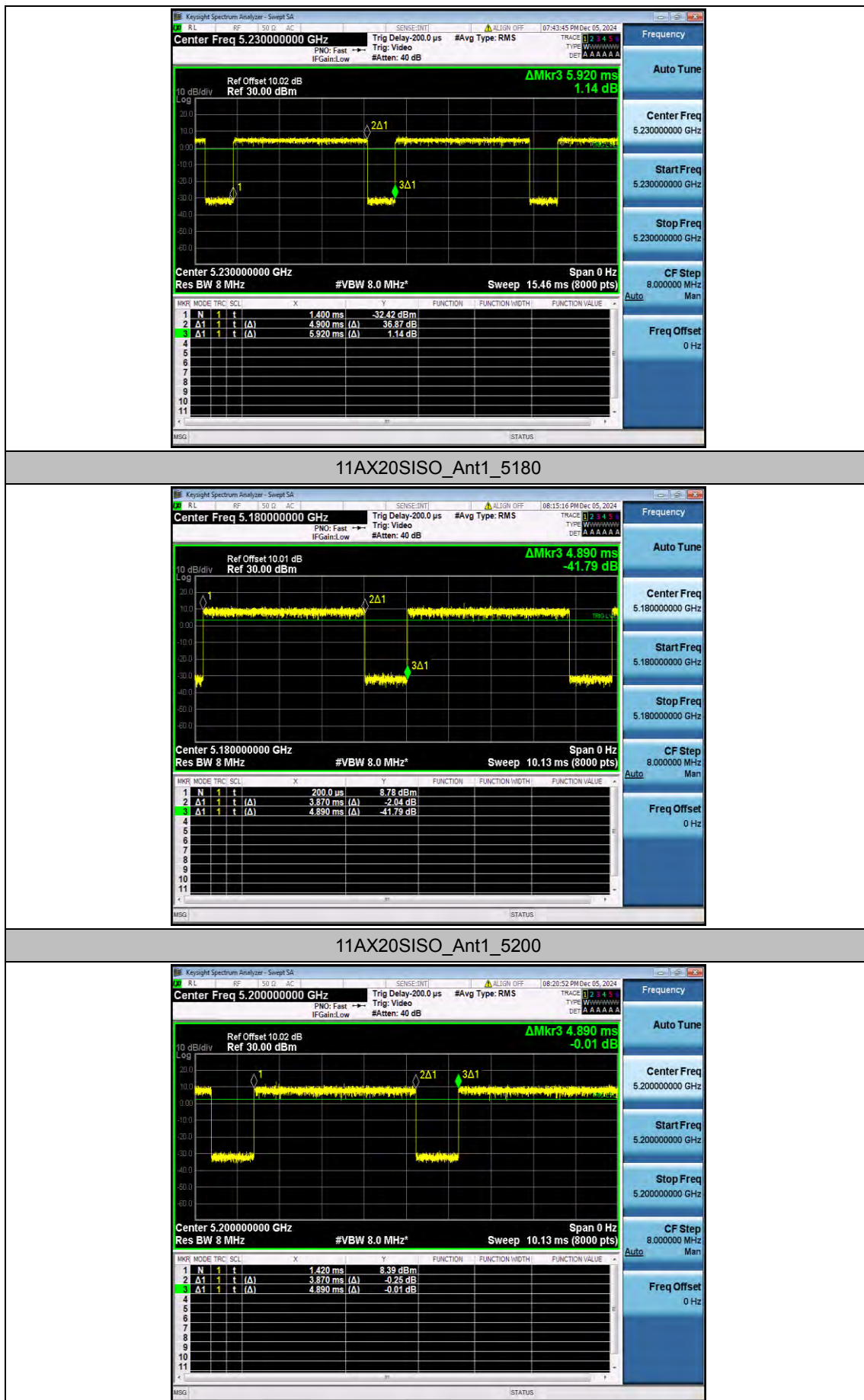
11AC20SISO_Ant1_5240



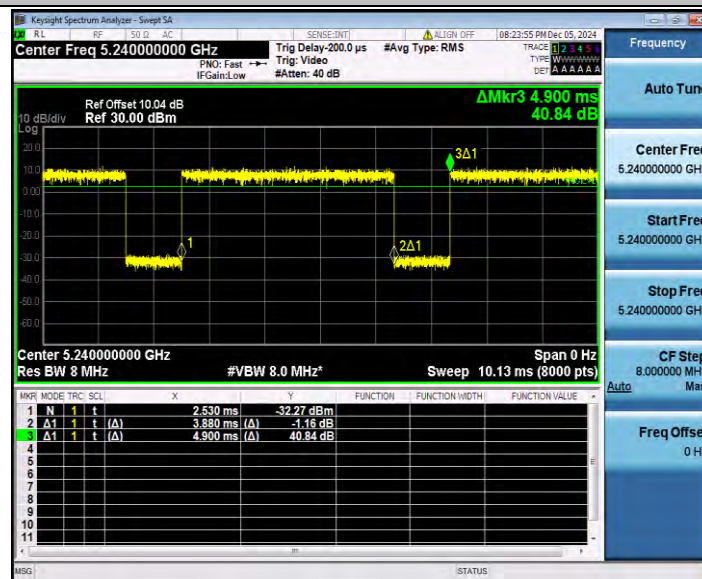
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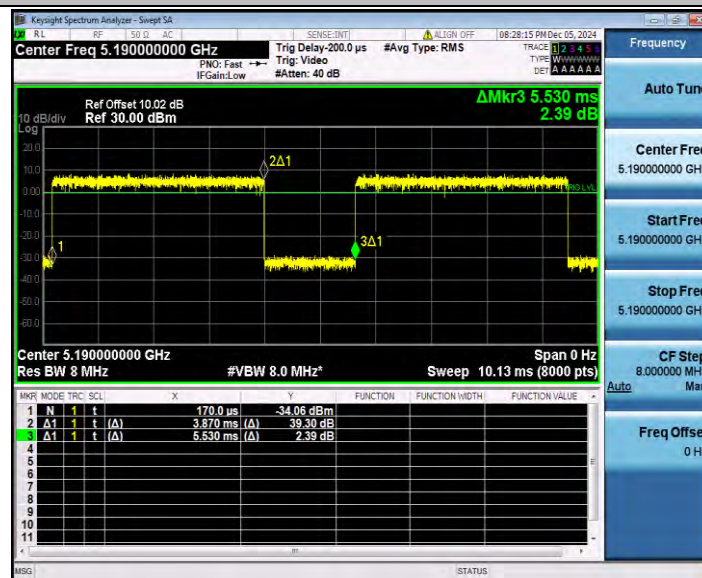
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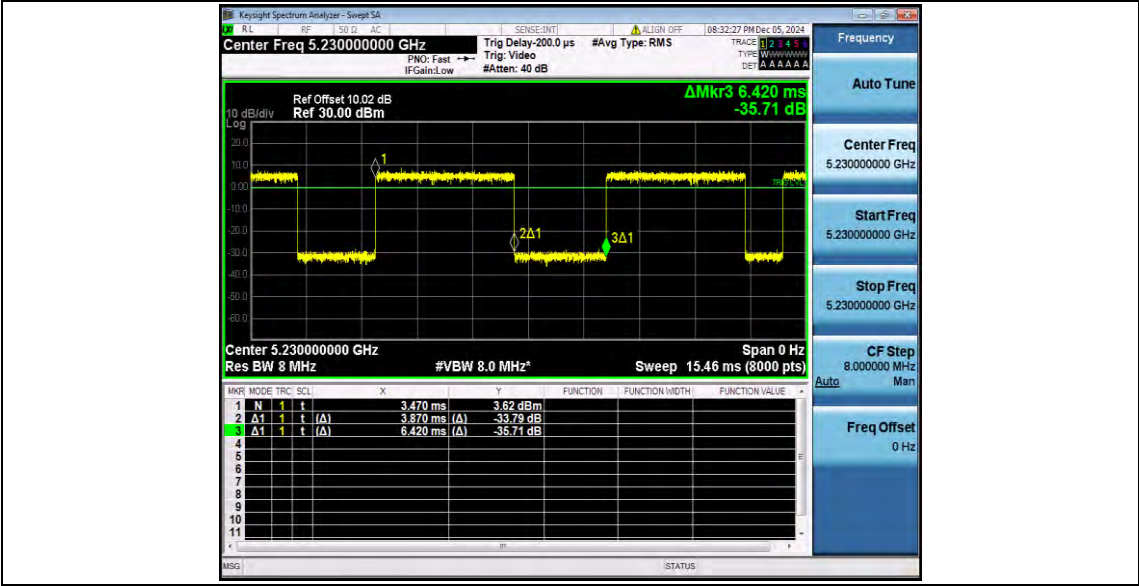
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



Appendix C.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	8.70	58.09	2.36	11.06	≤23.98	PASS
		5200	9.64	57.68	2.39	12.03	≤23.98	PASS
		5240	8.62	57.44	2.41	11.03	≤23.98	PASS
11N20SISO	Ant1	5180	11.07	69.88	1.56	12.63	≤23.98	PASS
		5200	10.69	83.31	0.79	11.48	≤23.98	PASS
		5240	10.38	83.28	0.79	11.17	≤23.98	PASS
11N40SISO	Ant1	5190	9.86	70.77	1.50	11.36	≤23.98	PASS
		5230	10.28	70.77	1.50	11.78	≤23.98	PASS
11AC20SISO	Ant1	5180	10.06	83.33	0.79	10.85	≤23.98	PASS
		5200	10.79	83.33	0.79	11.58	≤23.98	PASS
		5240	10.39	83.17	0.80	11.19	≤23.98	PASS
11AC40SISO	Ant1	5190	10.00	82.80	0.82	10.82	≤23.98	PASS
		5230	10.50	82.77	0.82	11.32	≤23.98	PASS
11AX20SISO	Ant1	5180	11.05	79.14	1.02	12.07	≤23.98	PASS
		5200	10.64	79.14	1.02	11.66	≤23.98	PASS
		5240	10.16	79.18	1.01	11.17	≤23.98	PASS
11AX40SISO	Ant1	5190	10.28	69.98	1.55	11.83	≤23.98	PASS
		5230	10.33	60.28	2.20	12.53	≤23.98	PASS

Appendix C.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.48	≤11.00	PASS
		5200	3.90	≤11.00	PASS
		5240	3.74	≤11.00	PASS
11N20SISO	Ant1	5180	1.73	≤11.00	PASS
		5200	1.00	≤11.00	PASS
		5240	0.91	≤11.00	PASS
11N40SISO	Ant1	5190	-1.34	≤11.00	PASS
		5230	-1.15	≤11.00	PASS
11AC20SISO	Ant1	5180	0.71	≤11.00	PASS
		5200	0.70	≤11.00	PASS
		5240	0.47	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.63	≤11.00	PASS
		5230	-2.51	≤11.00	PASS
11AX20SISO	Ant1	5180	1.13	≤11.00	PASS
		5200	0.70	≤11.00	PASS
		5240	0.51	≤11.00	PASS
11AX40SISO	Ant1	5190	-1.83	≤11.00	PASS
		5230	-1.13	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant1_5180



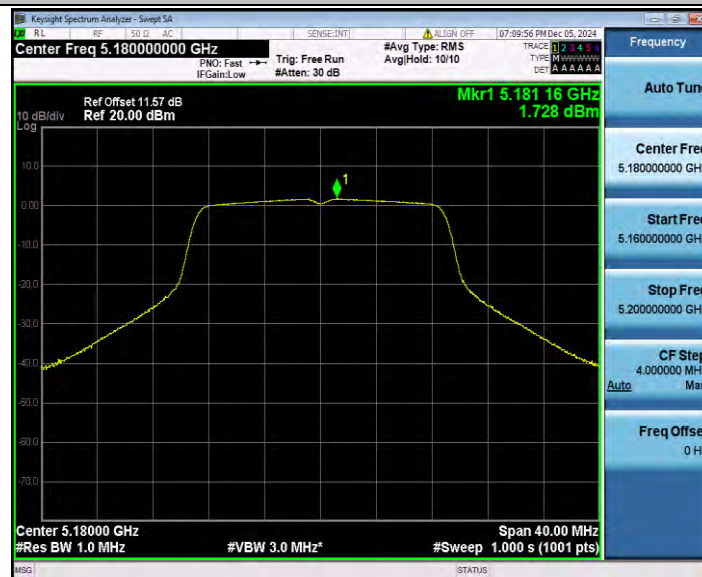
11A_Ant1_5200



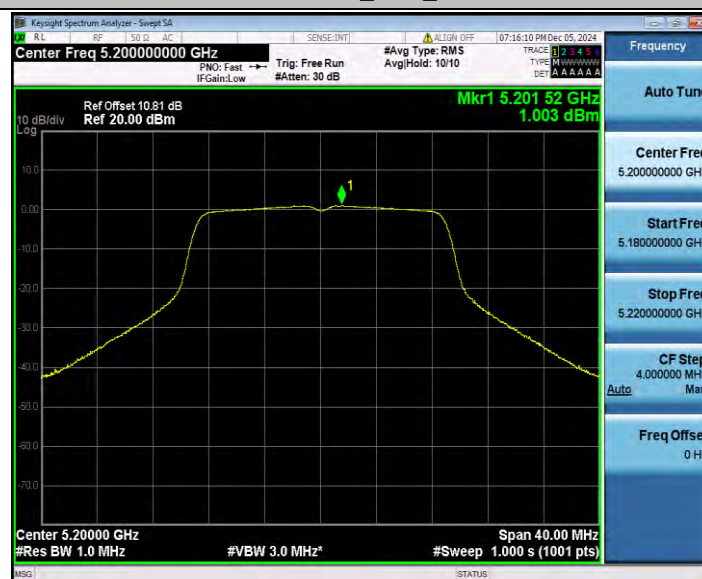
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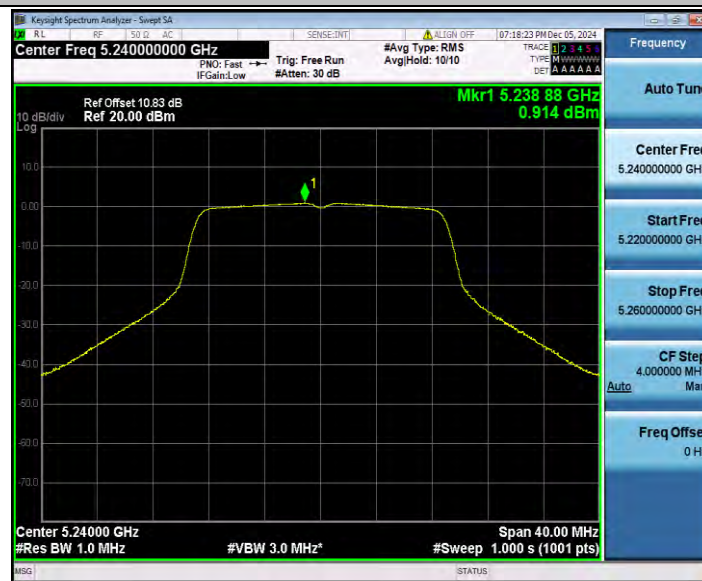
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



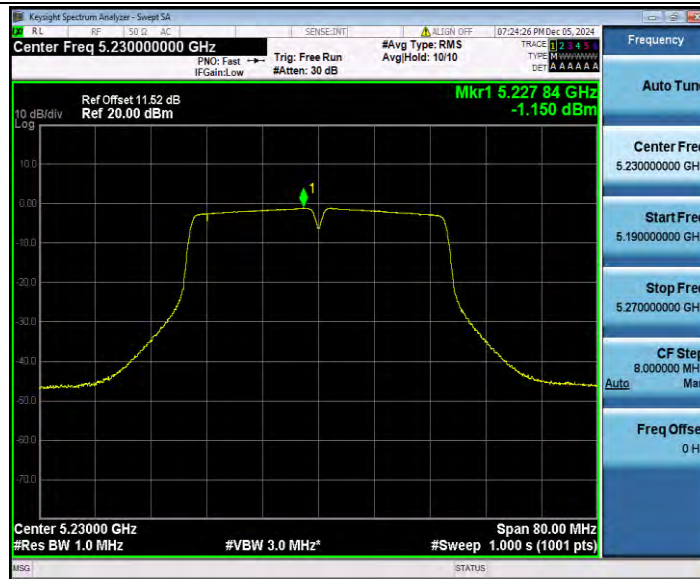
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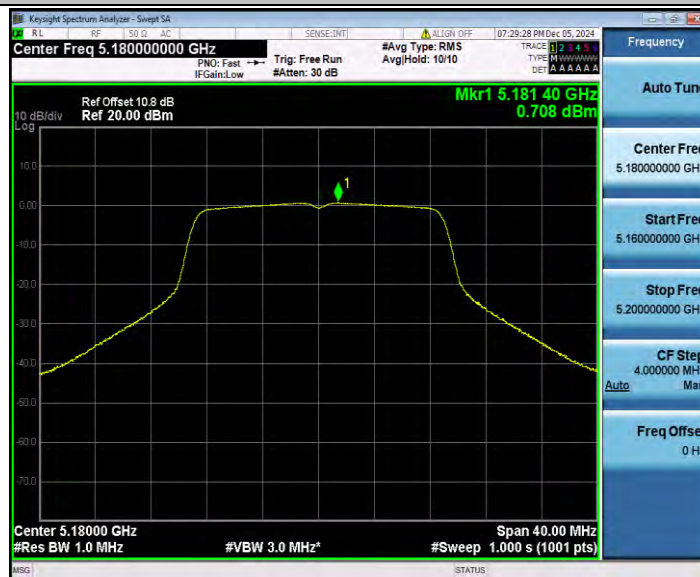
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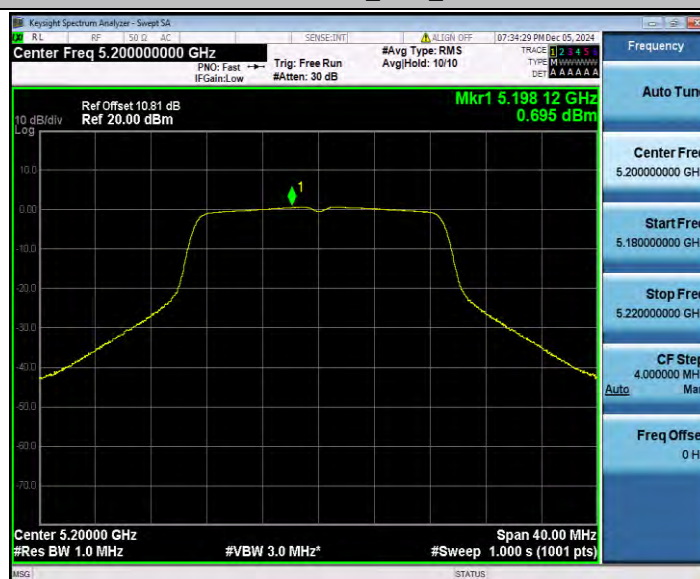
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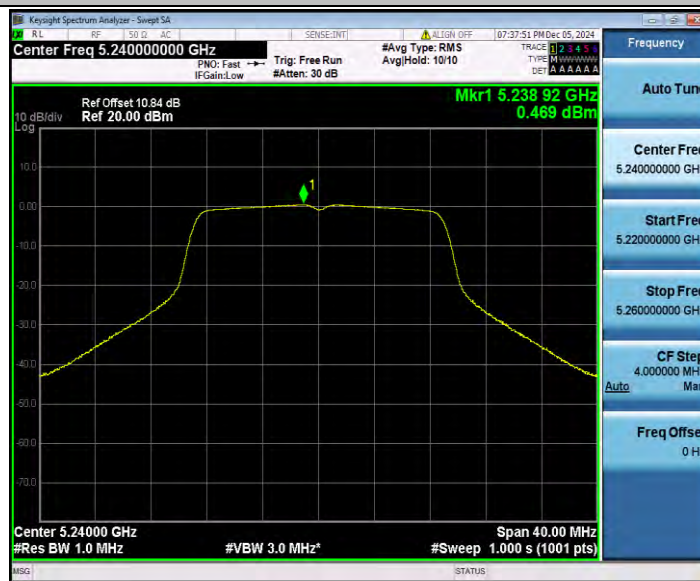
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11AC20SISO_Ant1_5200



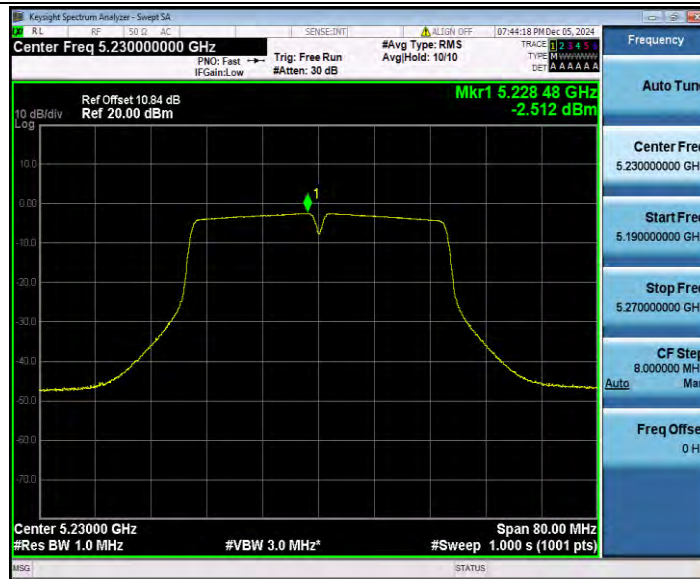
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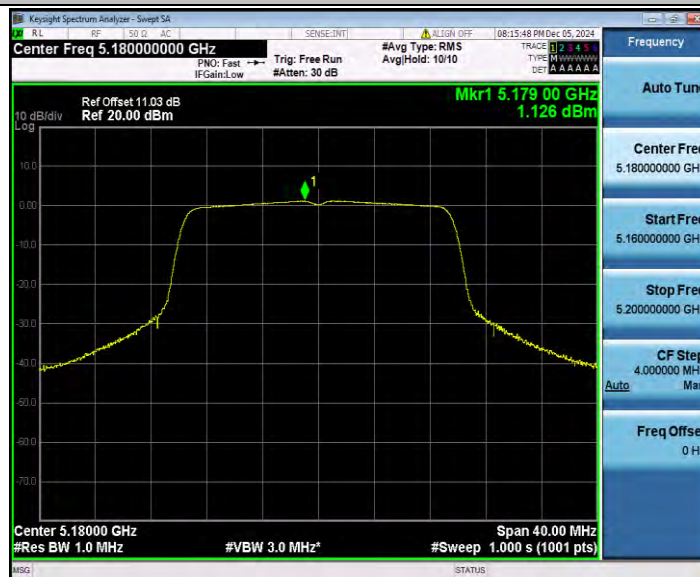
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



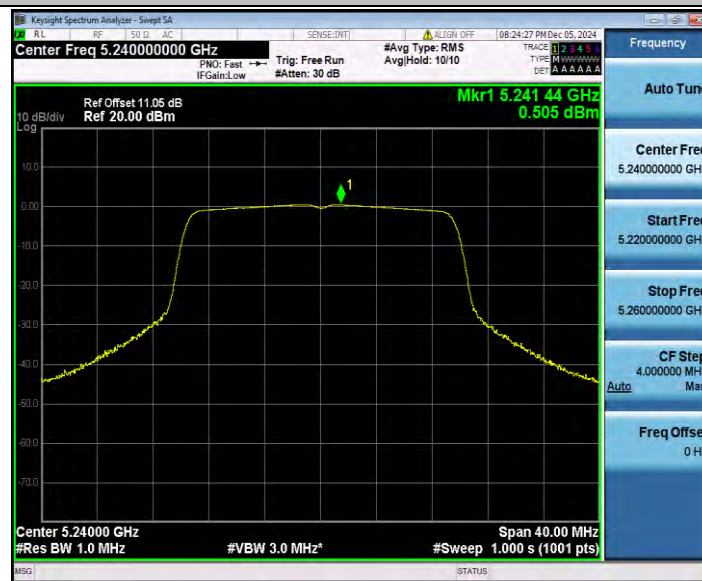
11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

