

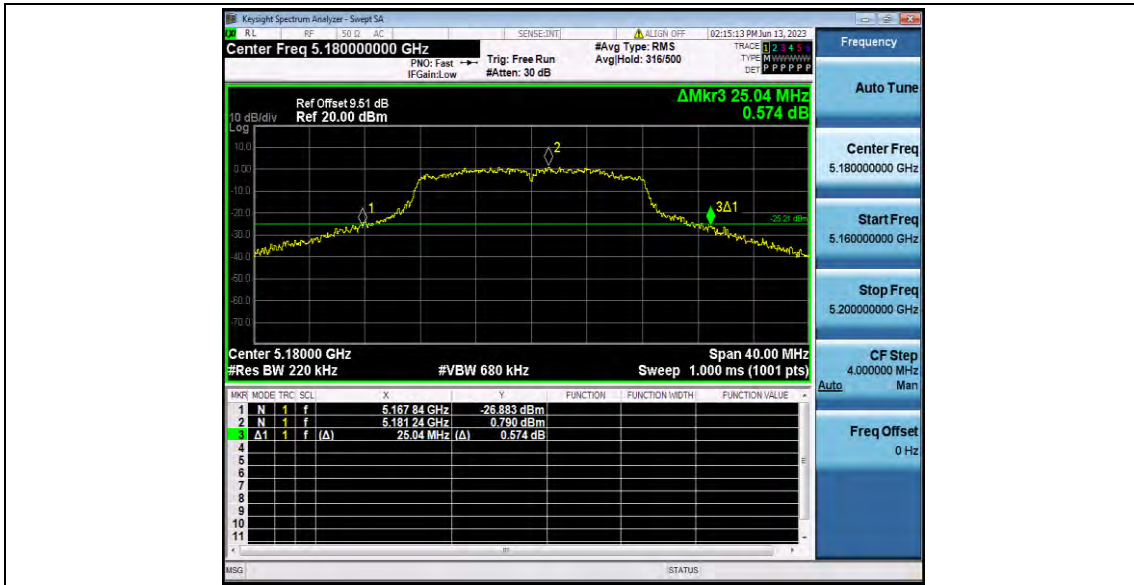
Case No. : <u>GTS20230525016-1-11</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.6.12</u> Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

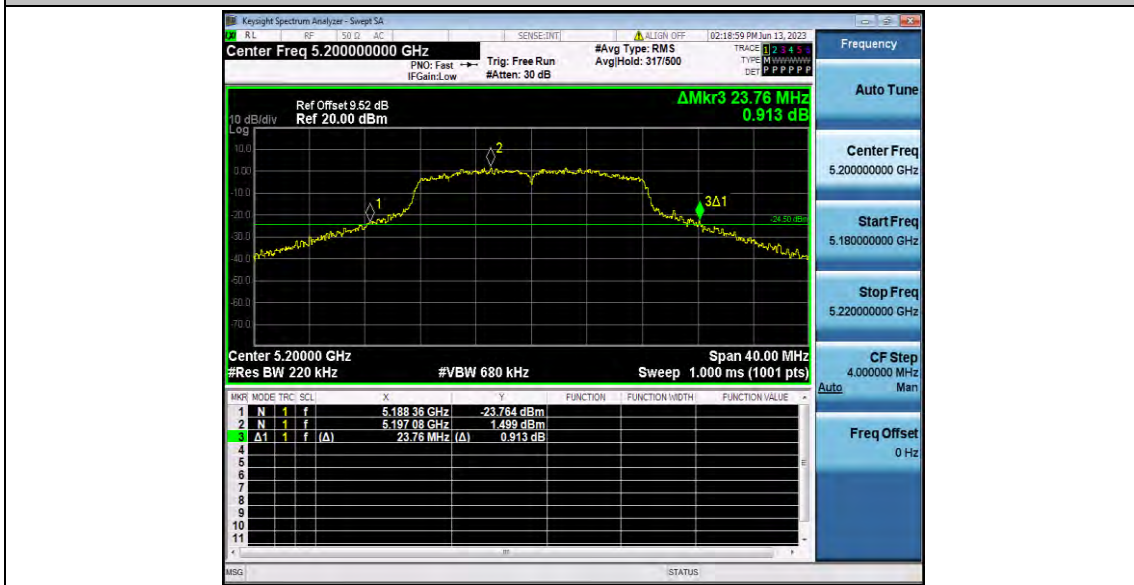
Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	25.040	5167.840	5192.880	---	---
		5200	23.760	5188.360	5212.120	---	---
		5240	22.960	5228.680	5251.640	---	---
11N20SISO	Ant1	5180	25.200	5167.400	5192.600	---	---
		5200	24.560	5187.440	5212.000	---	---
		5240	22.760	5228.320	5251.080	---	---
11N40SISO	Ant1	5190	43.120	5168.640	5211.760	---	---
		5230	43.280	5208.560	5251.840	---	---
11AC20SISO	Ant1	5180	25.640	5167.240	5192.880	---	---
		5200	24.720	5188.240	5212.960	---	---
		5240	22.440	5228.760	5251.200	---	---
11AC40SISO	Ant1	5190	44.560	5168.080	5212.640	---	---
		5230	43.680	5208.480	5252.160	---	---
11AC80SISO	Ant1	5210	125.120	5148.720	5273.840	---	---

Test Graphs



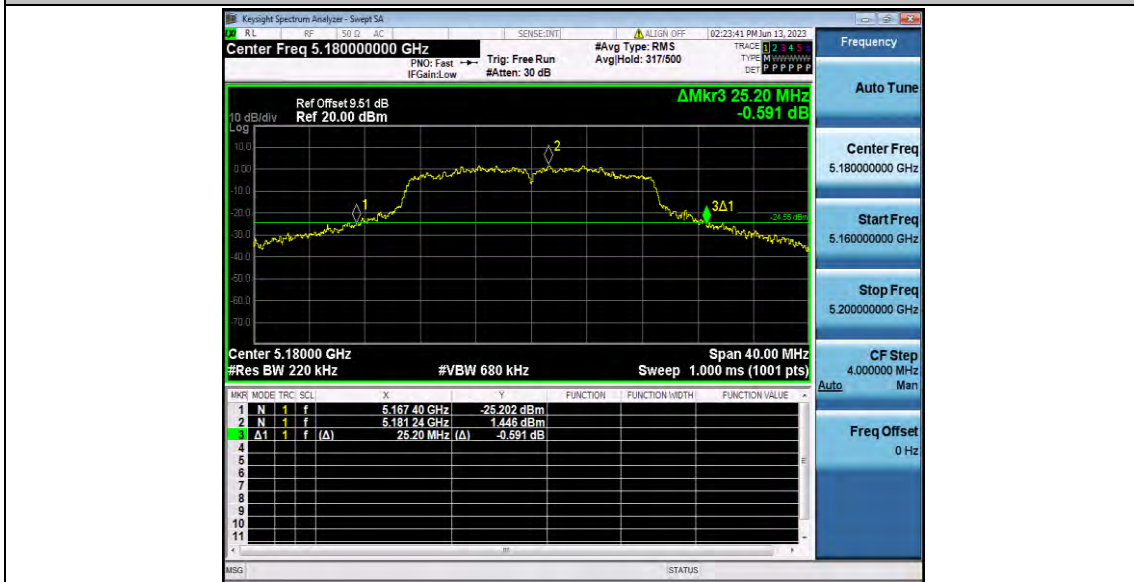
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



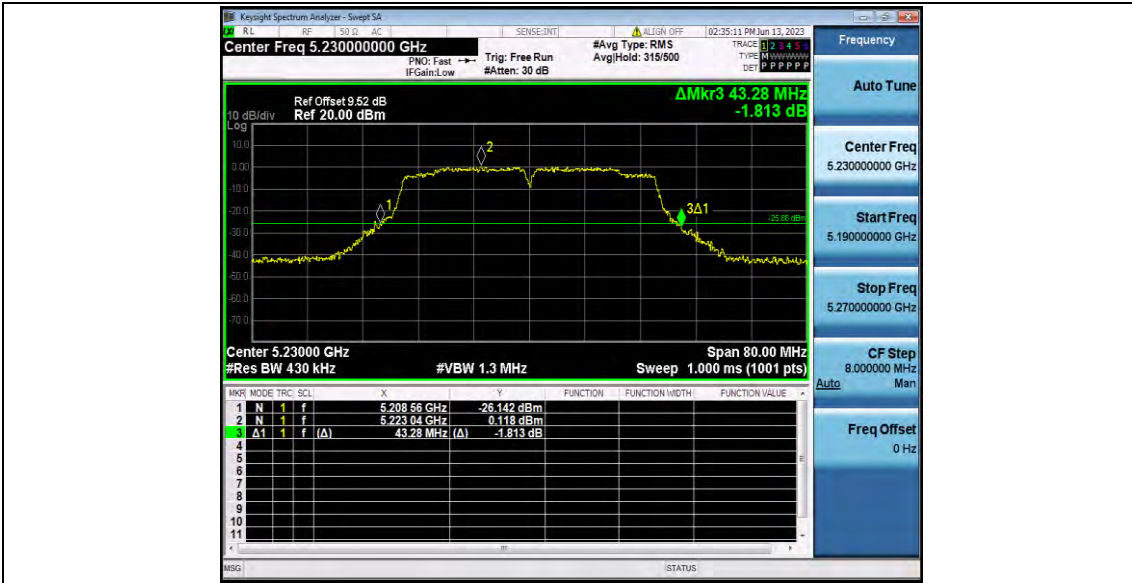
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



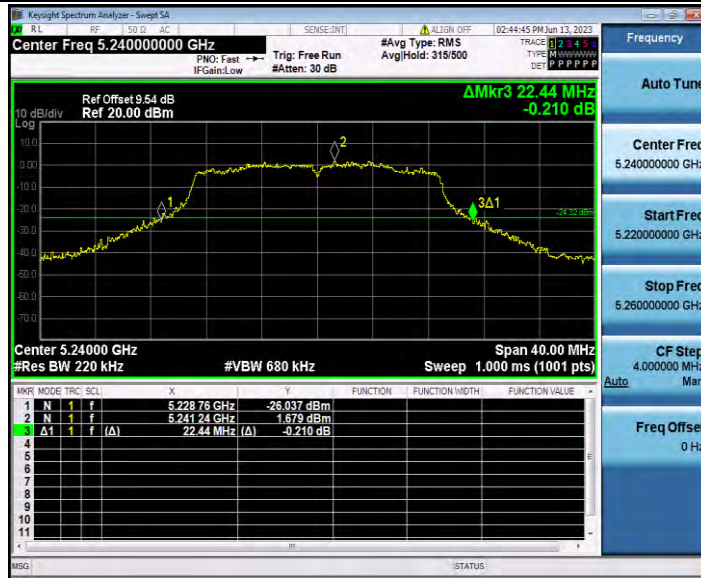
11N40SISO_Ant1_5230



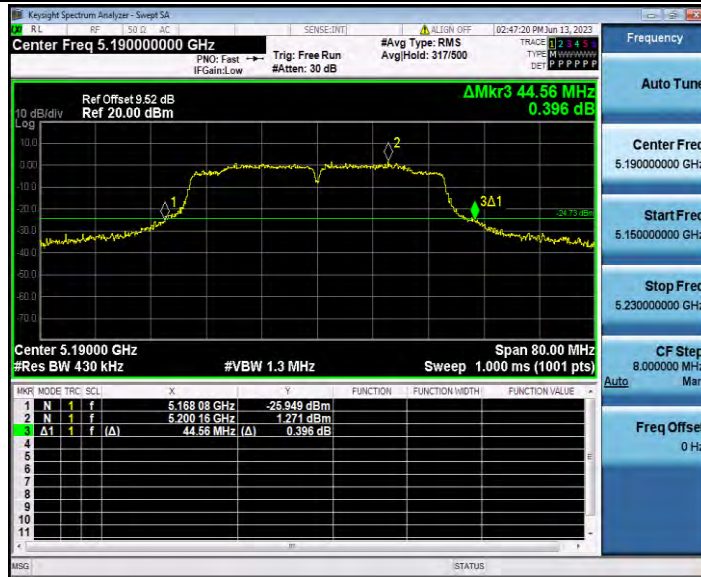
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



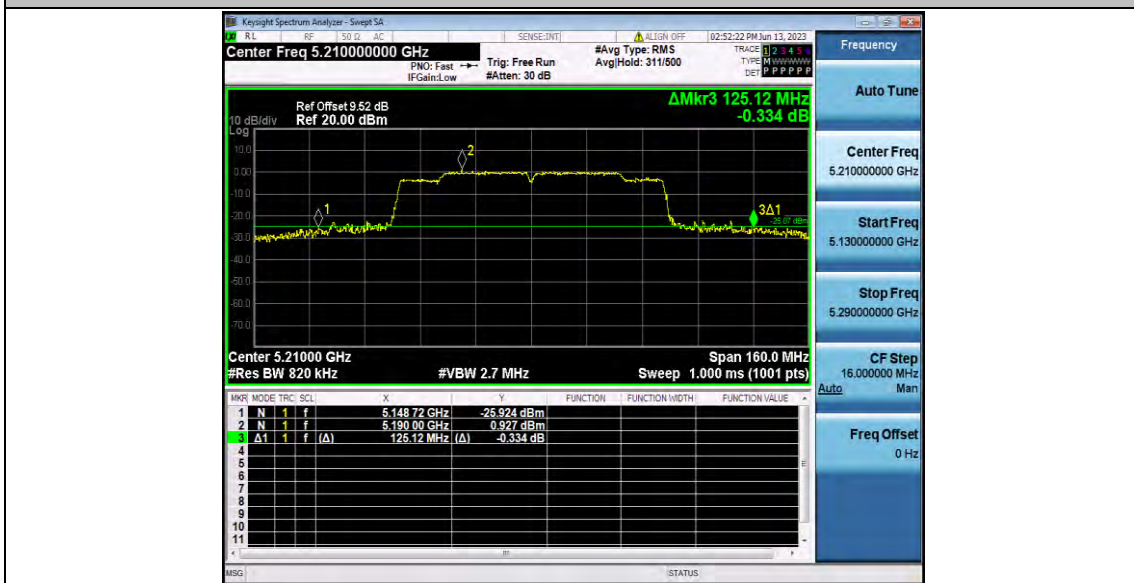
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

Appendix D.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.113	5171.454	5188.567	---	---
		5200	17.110	5191.451	5208.561	---	---
		5240	16.944	5231.502	5248.446	---	---
11N20SISO	Ant1	5180	18.346	5170.819	5189.165	---	---
		5200	18.195	5190.896	5209.091	---	---
		5240	18.088	5230.938	5249.026	---	---
11N40SISO	Ant1	5190	36.412	5171.852	5208.264	---	---
		5230	36.344	5211.854	5248.198	---	---
11AC20SISO	Ant1	5180	18.337	5170.849	5189.186	---	---
		5200	18.136	5190.923	5209.059	---	---
		5240	17.997	5230.983	5248.980	---	---
11AC40SISO	Ant1	5190	36.408	5171.820	5208.228	---	---
		5230	36.250	5211.898	5248.148	---	---
11AC80SISO	Ant1	5210	75.813	5172.172	5247.985	---	---

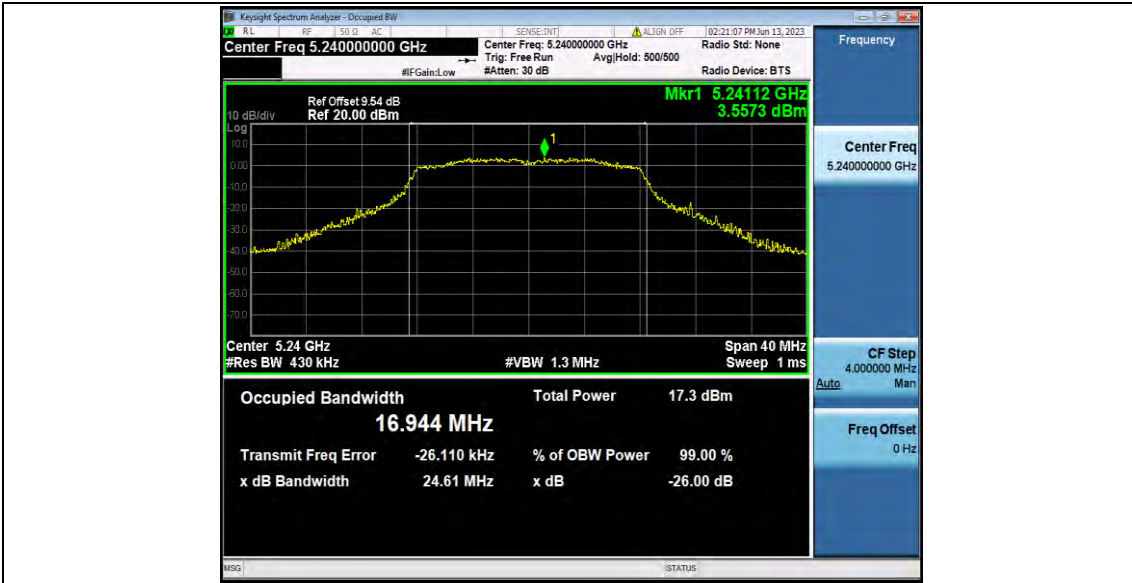
Test Graphs



11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



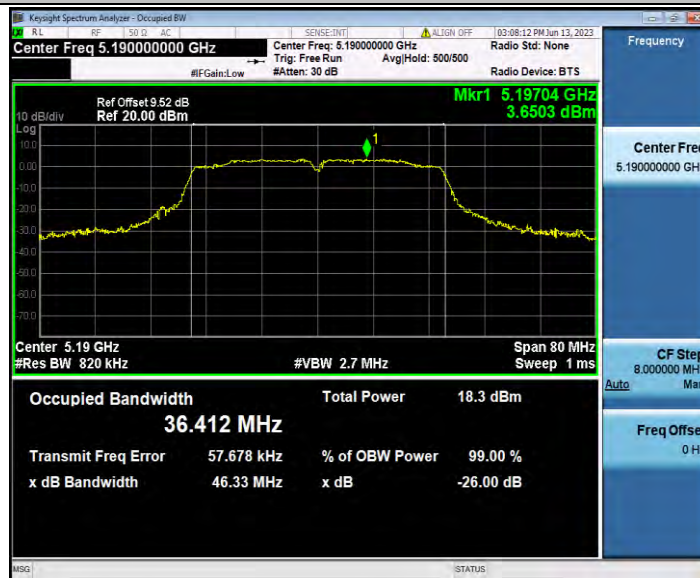
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



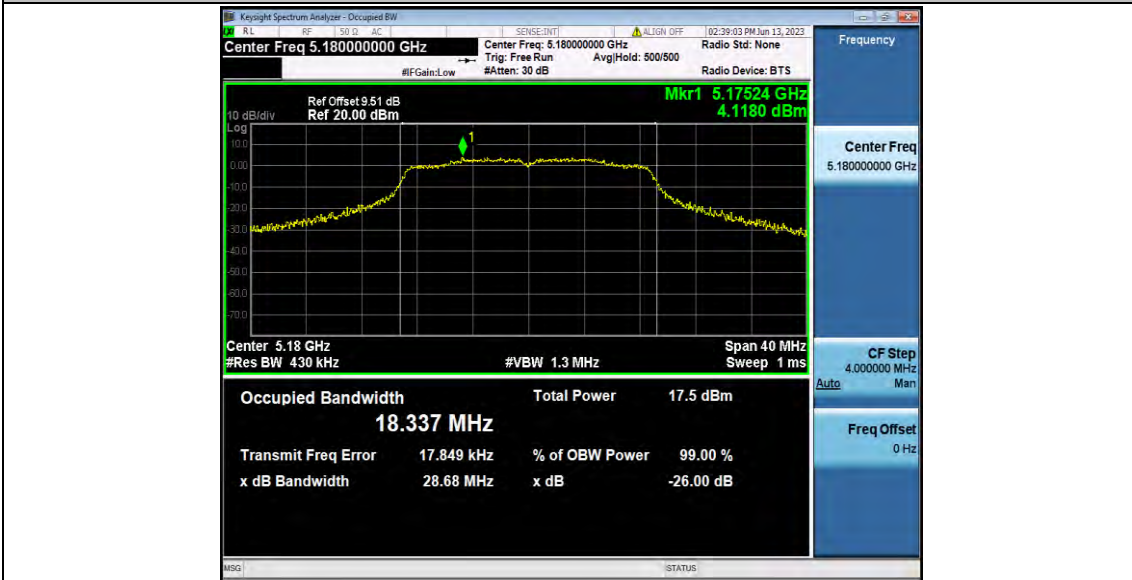
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



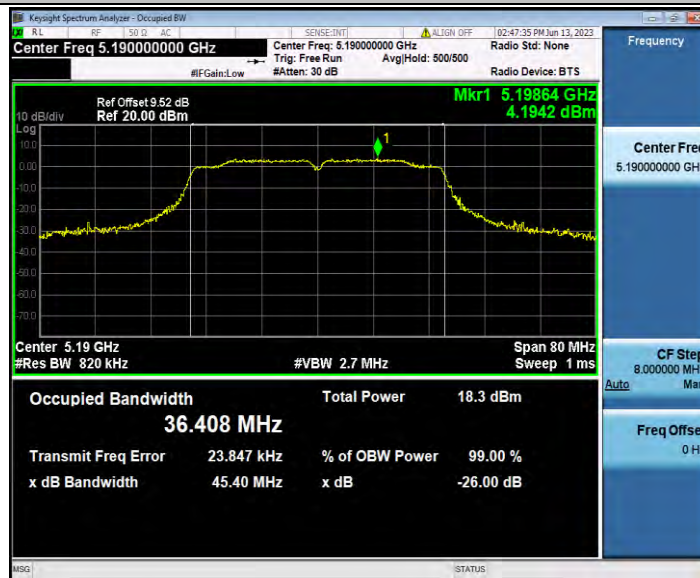
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



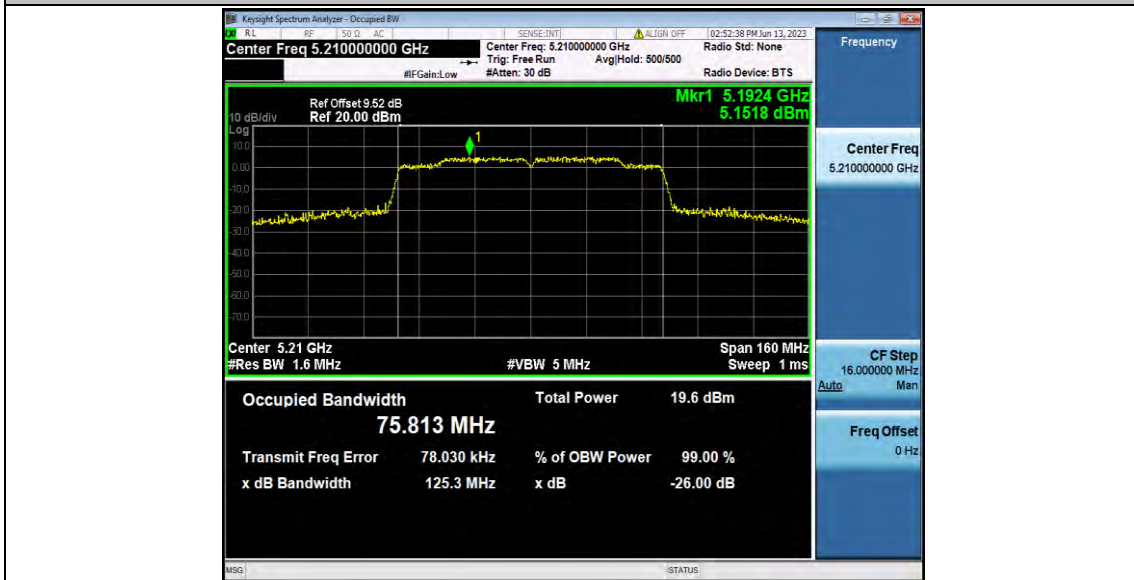
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



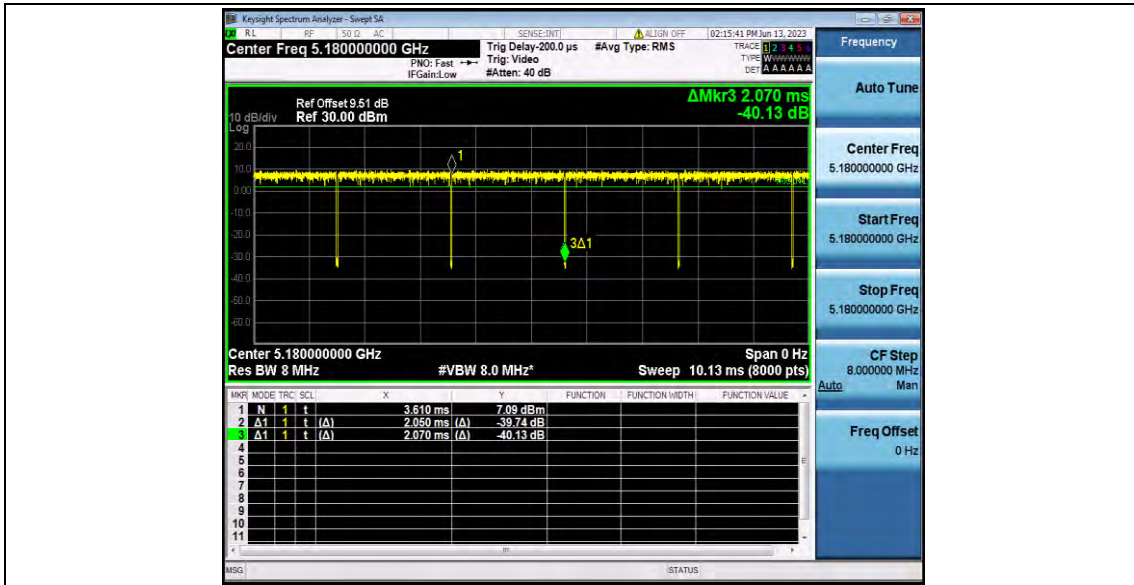
11AC80SISO_Ant1_5210

Appendix A.4: Duty Cycle

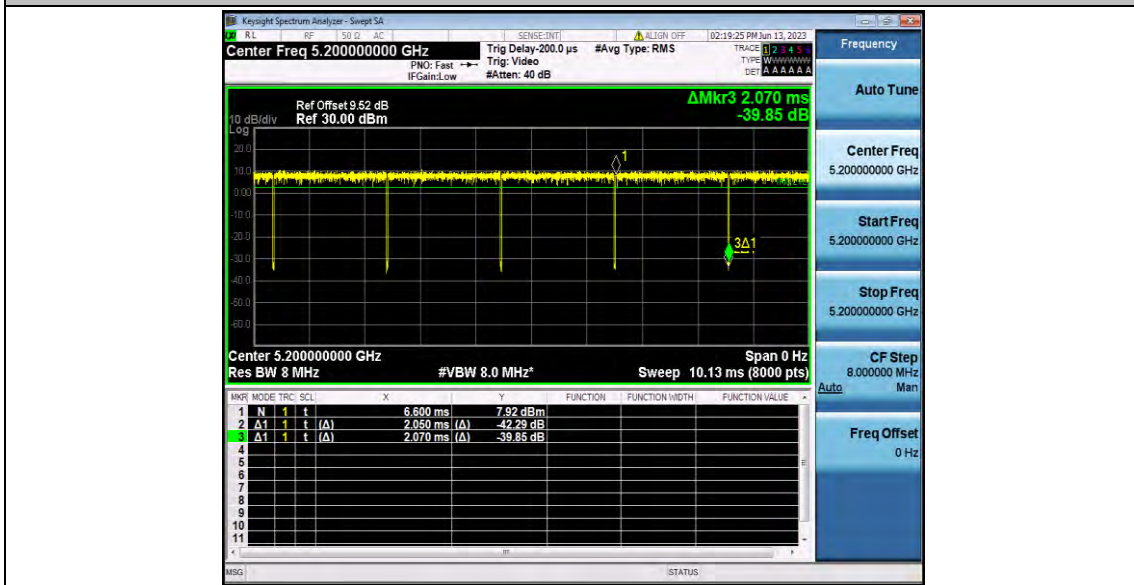
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.05	2.07	99.03
		5200	2.05	2.07	99.03
		5240	2.05	2.08	98.56
11N20SISO	Ant1	5180	1.91	1.93	98.96
		5200	1.91	1.94	98.45
		5240	1.91	1.94	98.45
11N40SISO	Ant1	5190	0.93	0.96	96.88
		5230	0.94	0.96	97.92
11AC20SISO	Ant1	5180	1.91	1.94	98.45
		5200	1.91	1.94	98.45
		5240	1.91	1.94	98.45
11AC40SISO	Ant1	5190	0.94	0.97	96.91
		5230	0.94	0.97	96.91
11AC80SISO	Ant1	5210	0.43	0.46	93.48

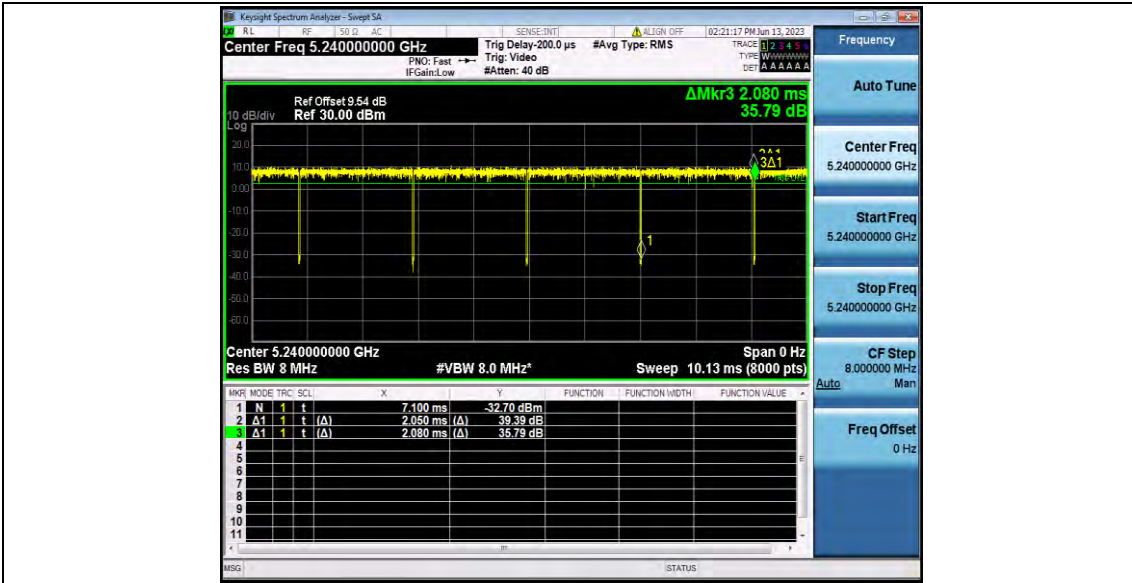
Test Graphs



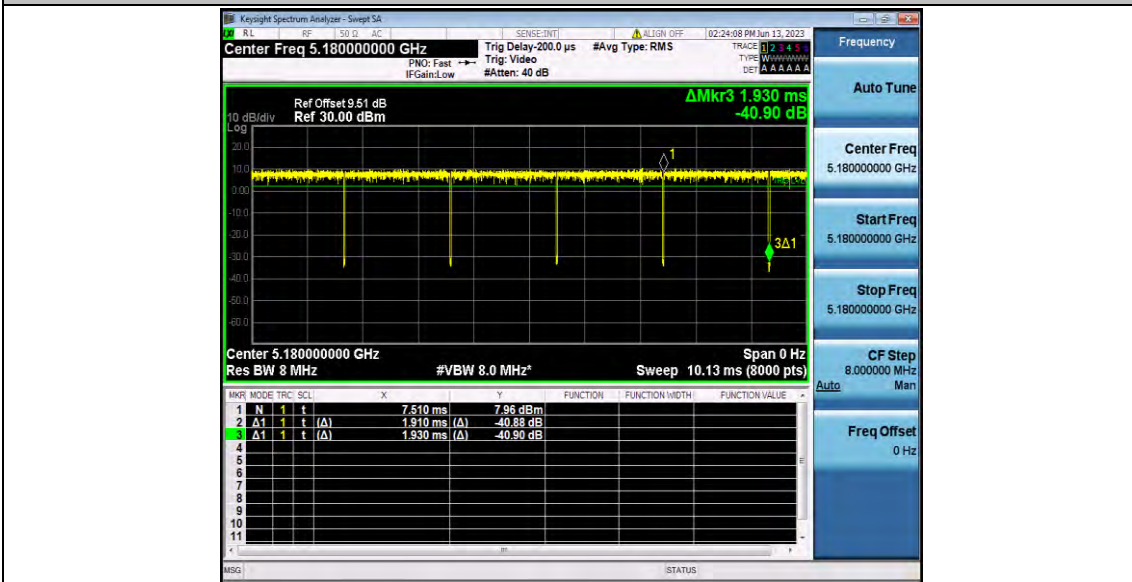
11A_Ant1_5180



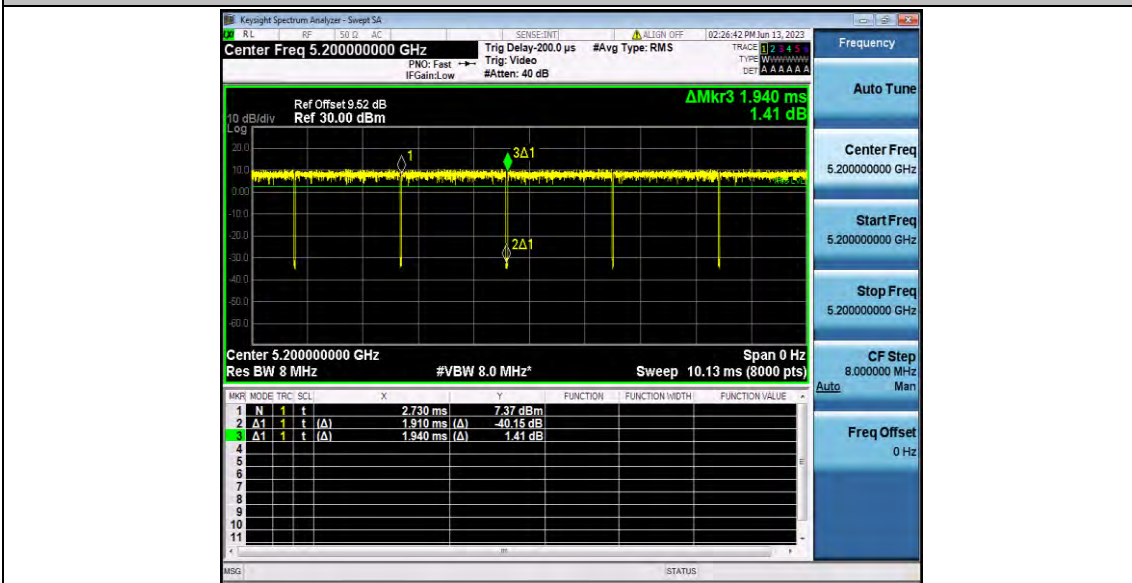
11A_Ant1_5200



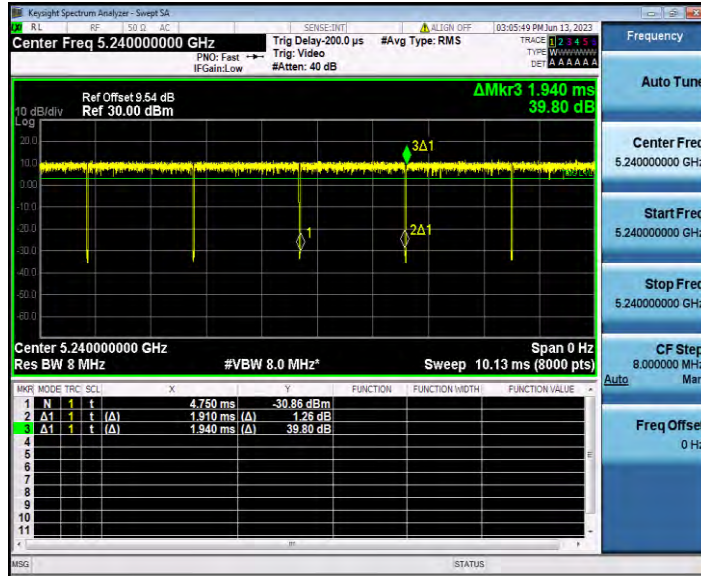
11A_Ant1_5240



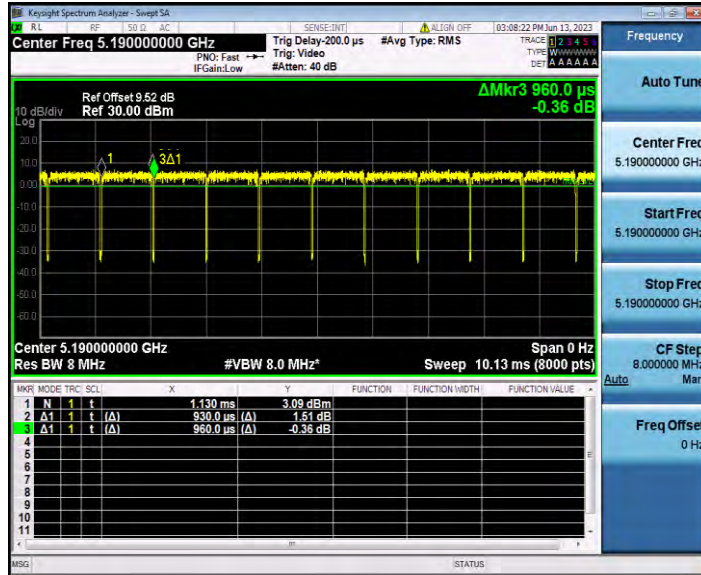
11N20SISO_Ant1_5180



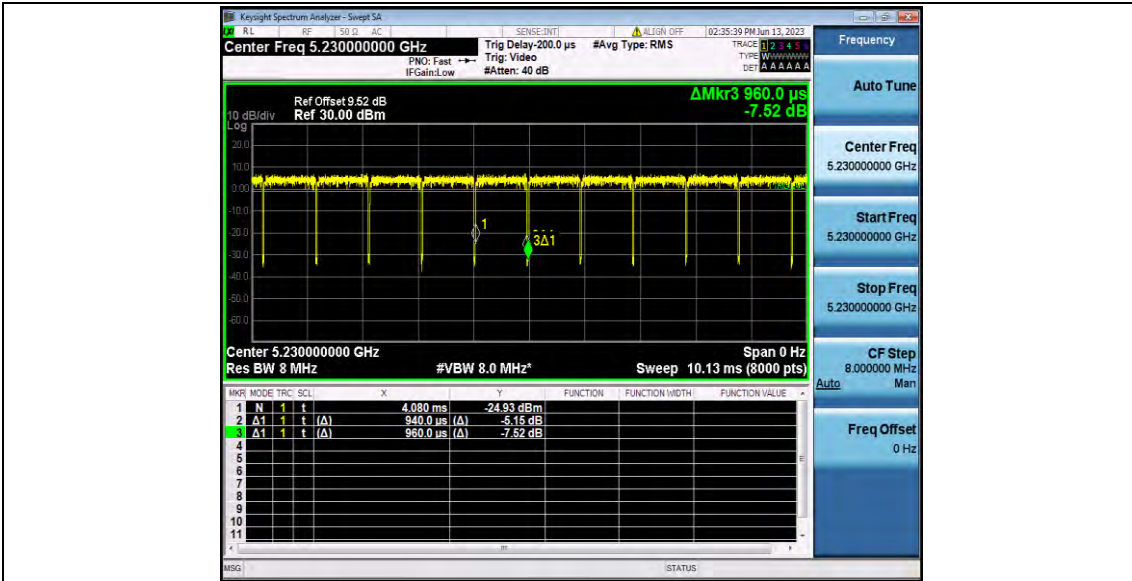
11N20SISO_Ant1_5200



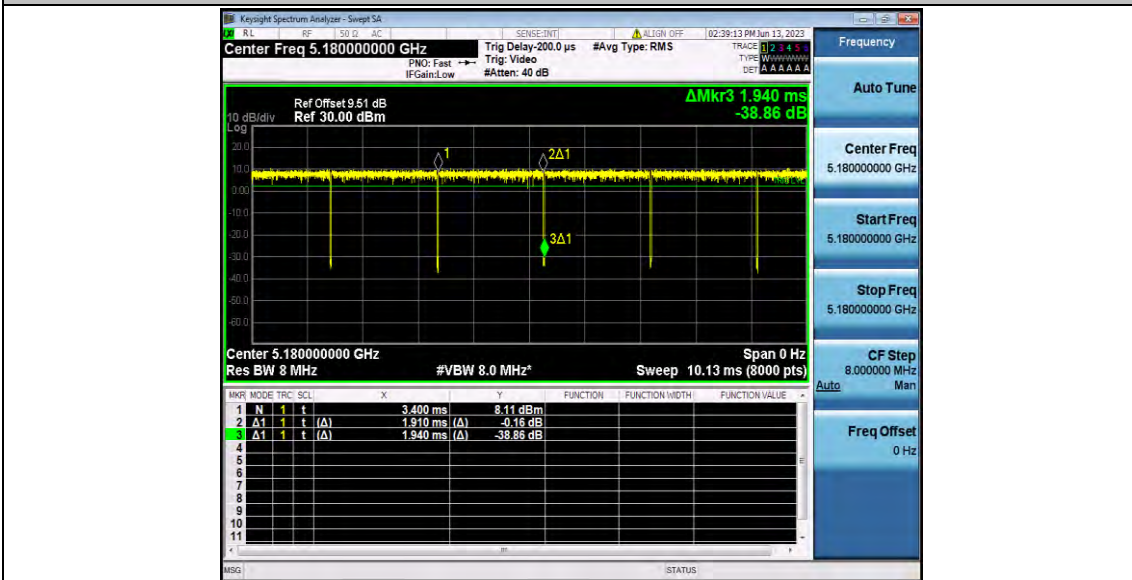
11N20SISO_Ant1_5240



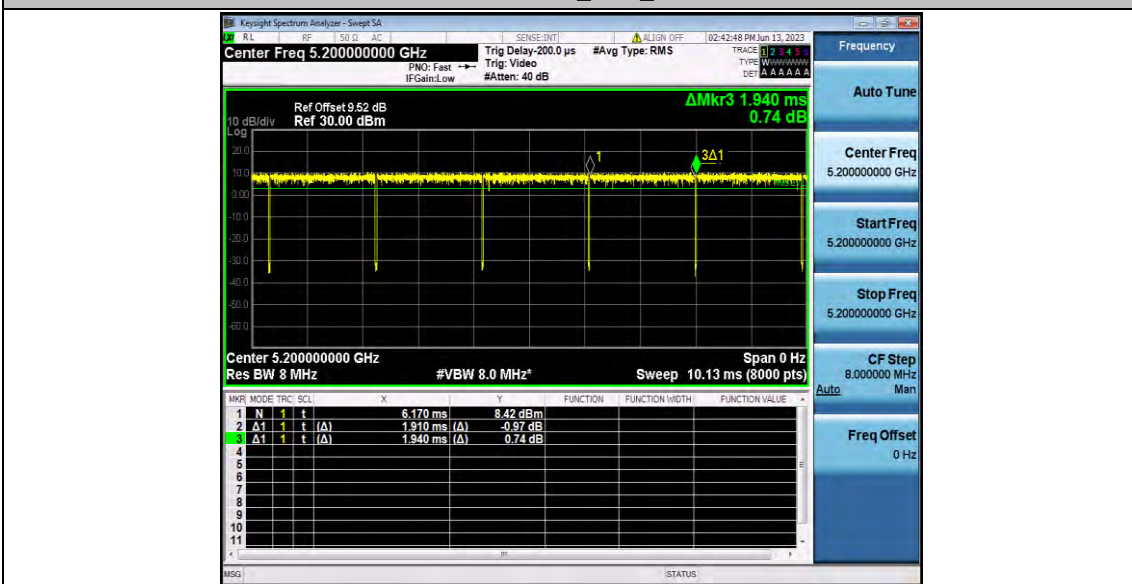
11N40SISO_Ant1_5190



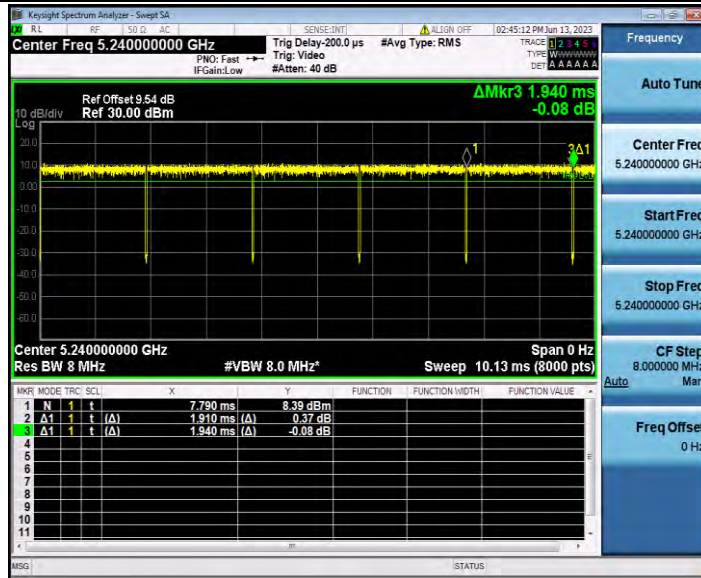
11N40SISO_Ant1_5230



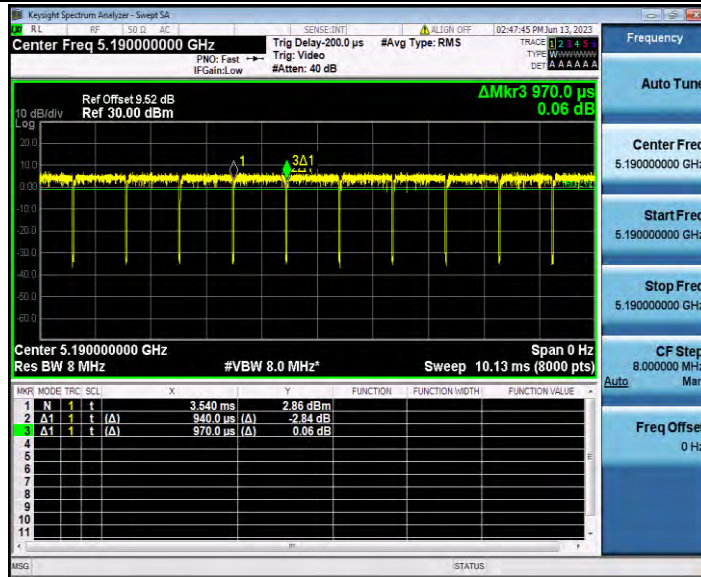
11AC20SISO_Ant1_5180



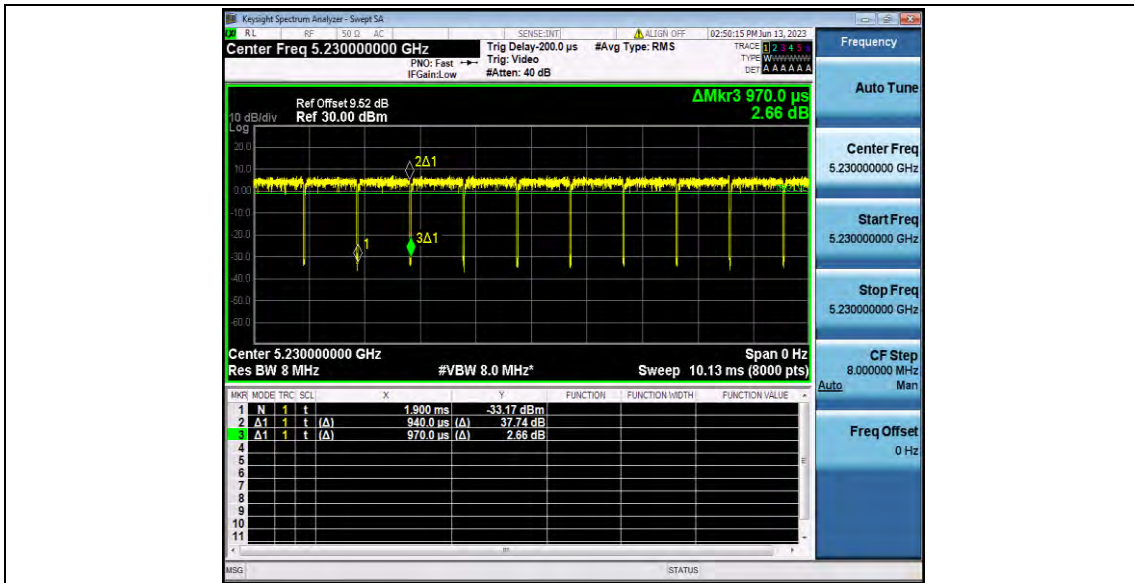
11AC20SISO_Ant1_5200



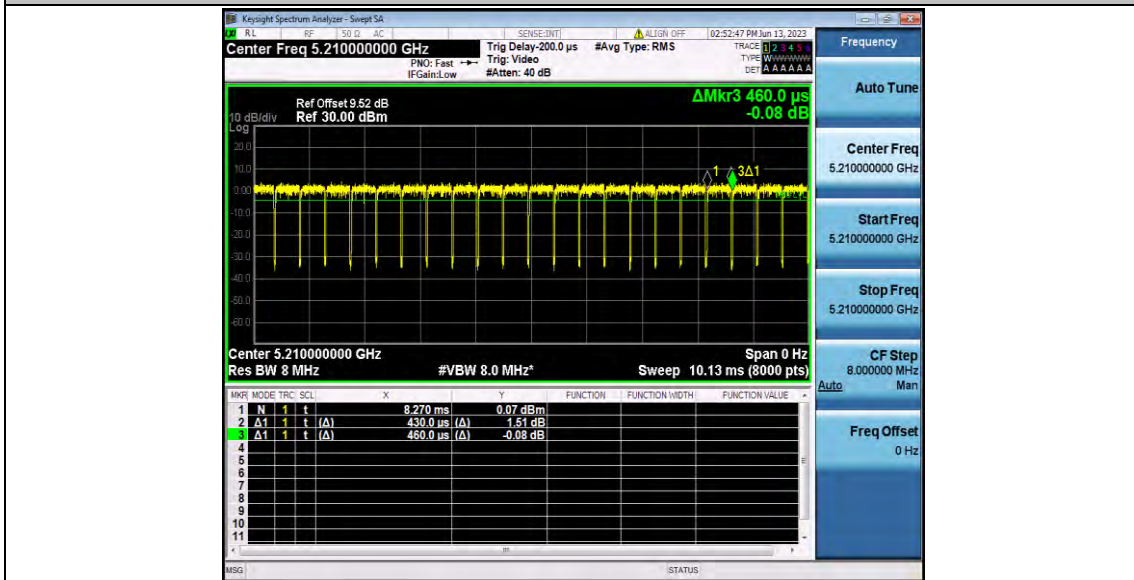
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	10.17	99.03	0.04	10.21	≤23.98	PASS
		5200	10.50	99.03	0.04	10.54	≤23.98	PASS
		5240	10.33	98.56	0.06	10.39	≤23.98	PASS
11N20SISO	Ant1	5180	10.55	98.96	0.05	10.60	≤23.98	PASS
		5200	10.88	98.45	0.07	10.95	≤23.98	PASS
		5240	11.25	98.45	0.07	11.32	≤23.98	PASS
11N40SISO	Ant1	5190	10.70	96.88	0.14	10.84	≤23.98	PASS
		5230	10.74	97.92	0.09	10.83	≤23.98	PASS
11AC20SISO	Ant1	5180	10.64	98.45	0.07	10.71	≤23.98	PASS
		5200	10.87	98.45	0.07	10.94	≤23.98	PASS
		5240	10.88	98.45	0.07	10.95	≤23.98	PASS
11AC40SISO	Ant1	5190	10.62	96.91	0.14	10.76	≤23.98	PASS
		5230	10.64	96.91	0.14	10.78	≤23.98	PASS
11AC80SISO	Ant1	5210	10.41	93.48	0.29	10.70	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.

Appendix D.5: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.53	≤11.00	PASS
		5200	-0.46	≤11.00	PASS
		5240	-0.58	≤11.00	PASS
11N20SISO	Ant1	5180	-0.26	≤11.00	PASS
		5200	-0.26	≤11.00	PASS
		5240	0.19	≤11.00	PASS
11N40SISO	Ant1	5190	-3.86	≤11.00	PASS
		5230	-3.31	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.5	≤11.00	PASS
		5200	-0.19	≤11.00	PASS
		5240	-0.15	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.6	≤11.00	PASS
		5230	-3.32	≤11.00	PASS
11AC80SISO	Ant1	5210	-10.38	≤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



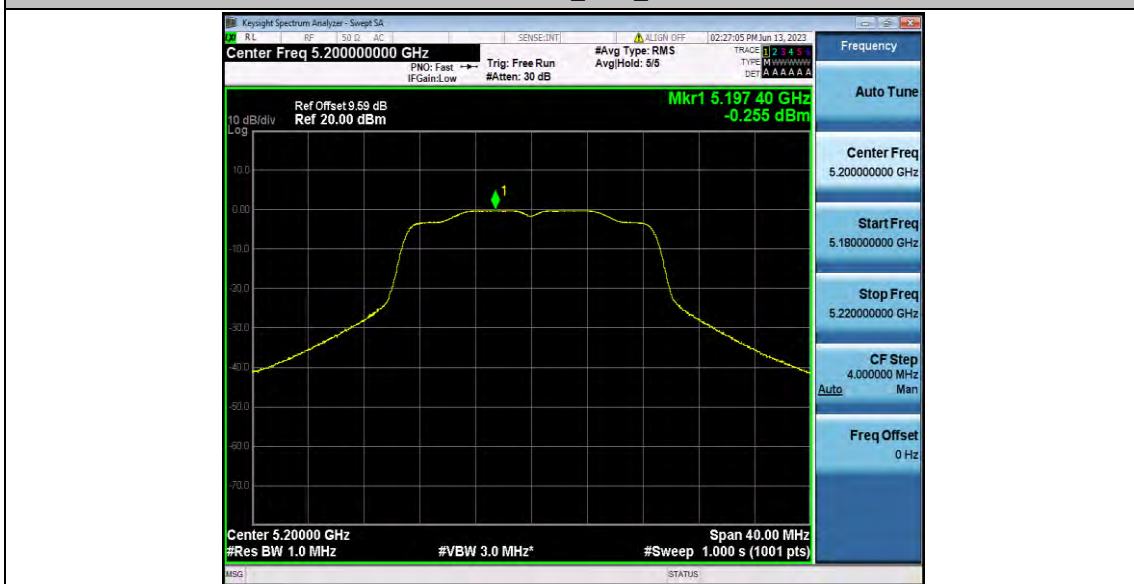
11A_Ant1_5200



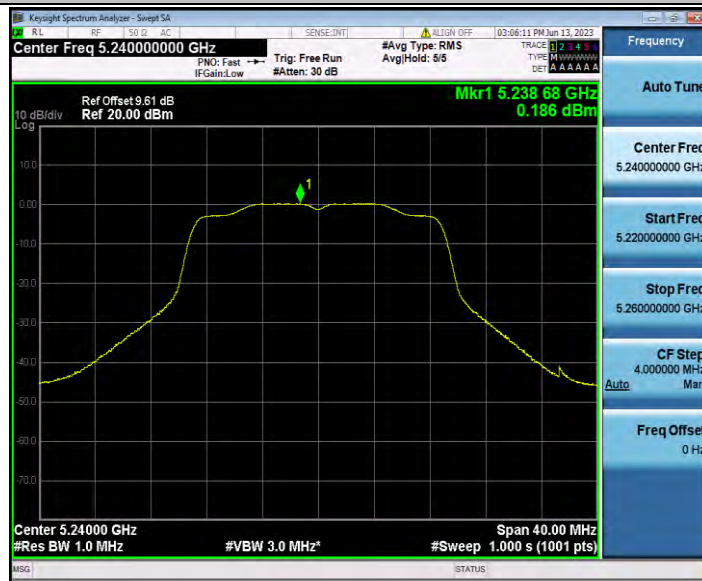
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



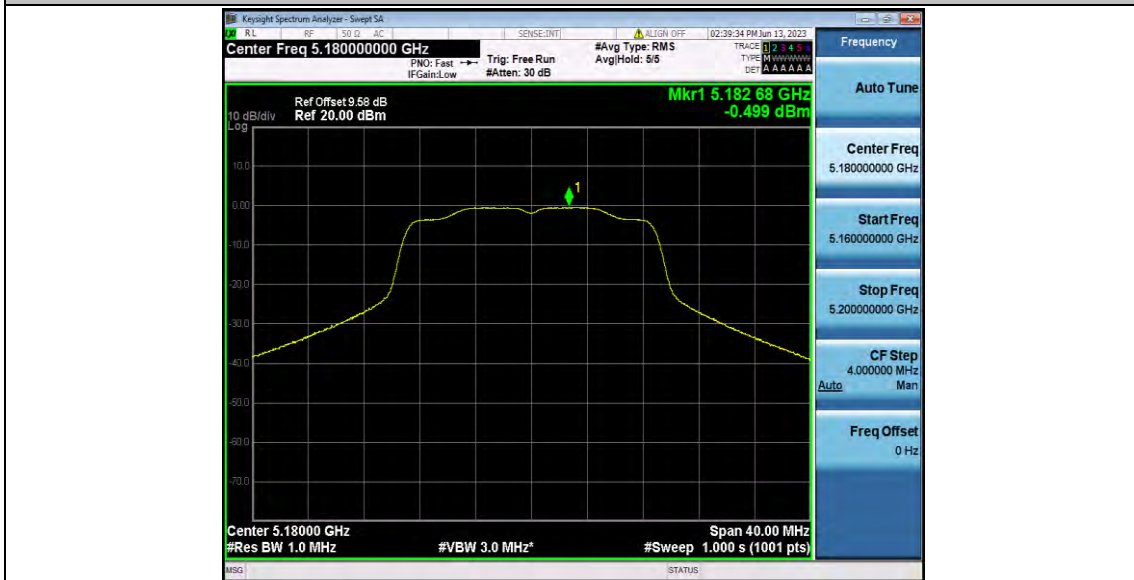
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



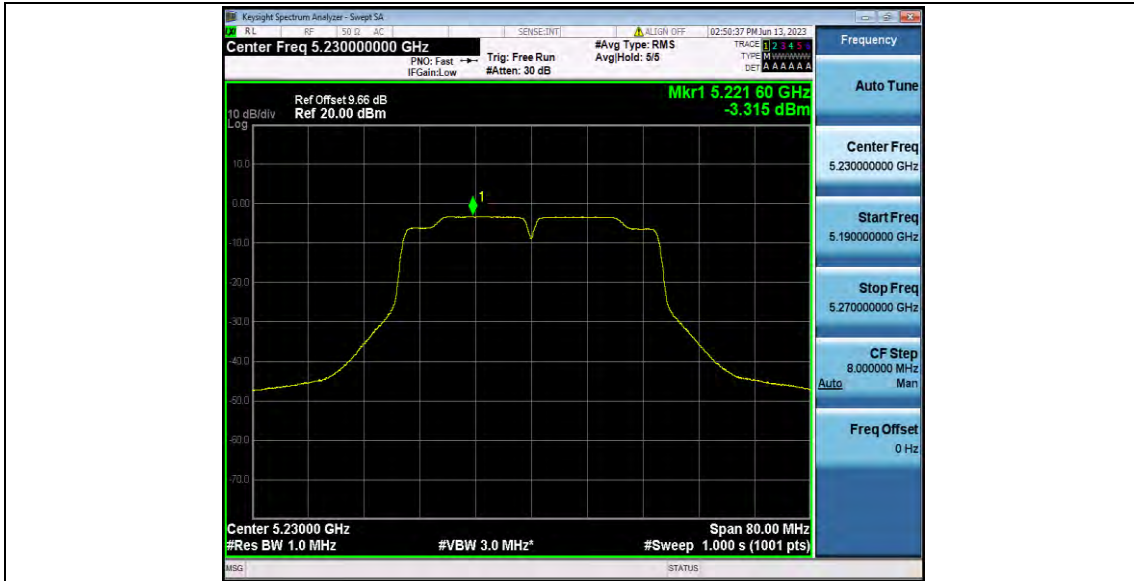
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



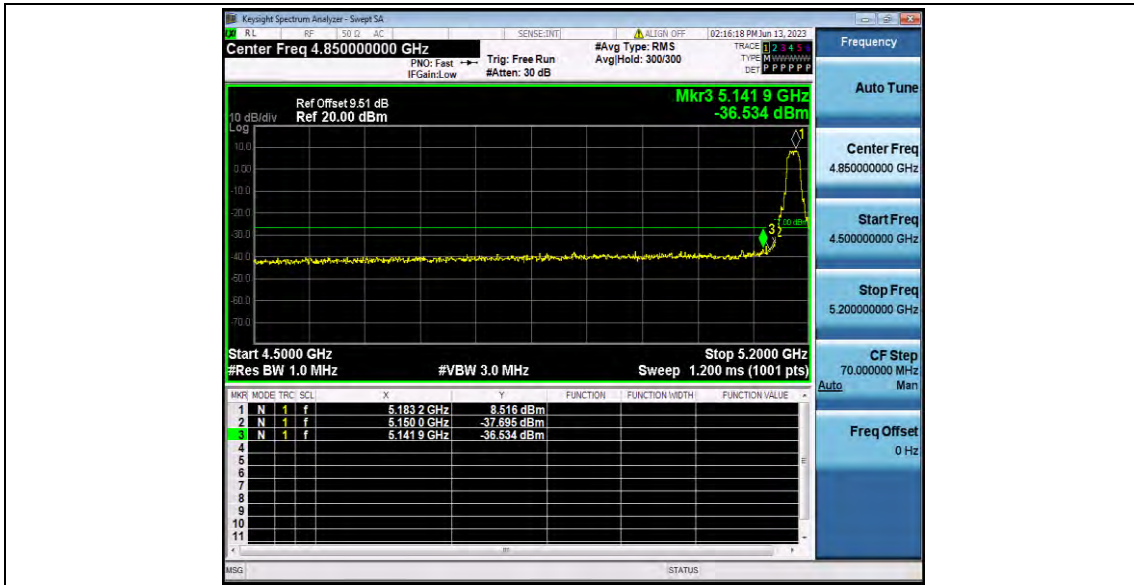
11AC80SISO_Ant1_5210

Appendix D.6: Band edge measurements

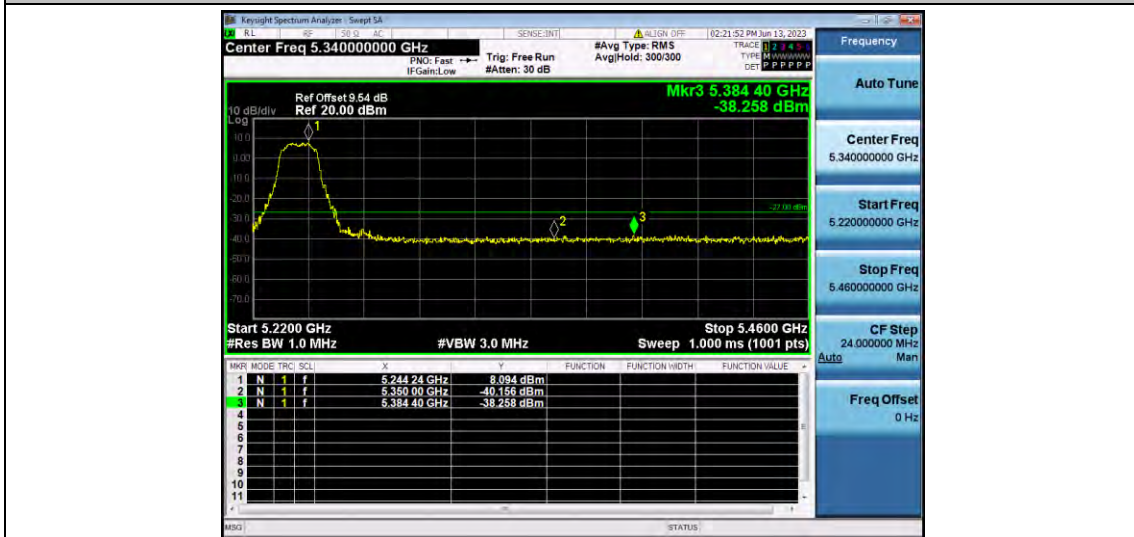
Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.53	≤ -27	PASS
		High	5240	-38.26	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-35.75	≤ -27	PASS
		High	5240	-37.15	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-31.66	≤ -27	PASS
		High	5230	-37.96	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-36.64	≤ -27	PASS
		High	5240	-37.89	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-31.25	≤ -27	PASS
		High	5230	-37.39	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-36.86	≤ -27	PASS
		High	5210	-37.24	≤ -27	PASS

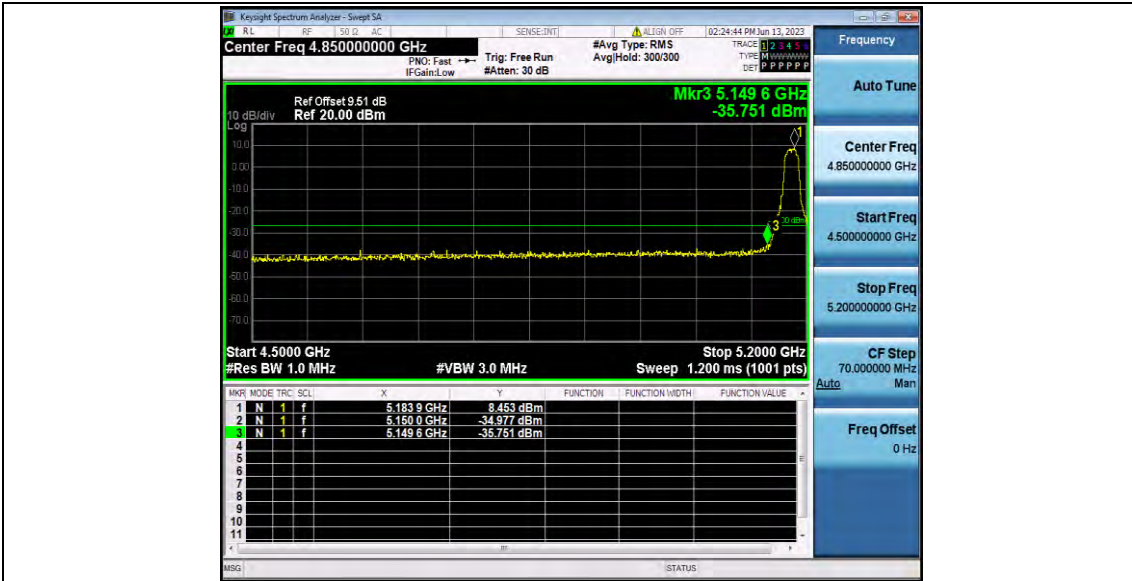
Test Graphs B1



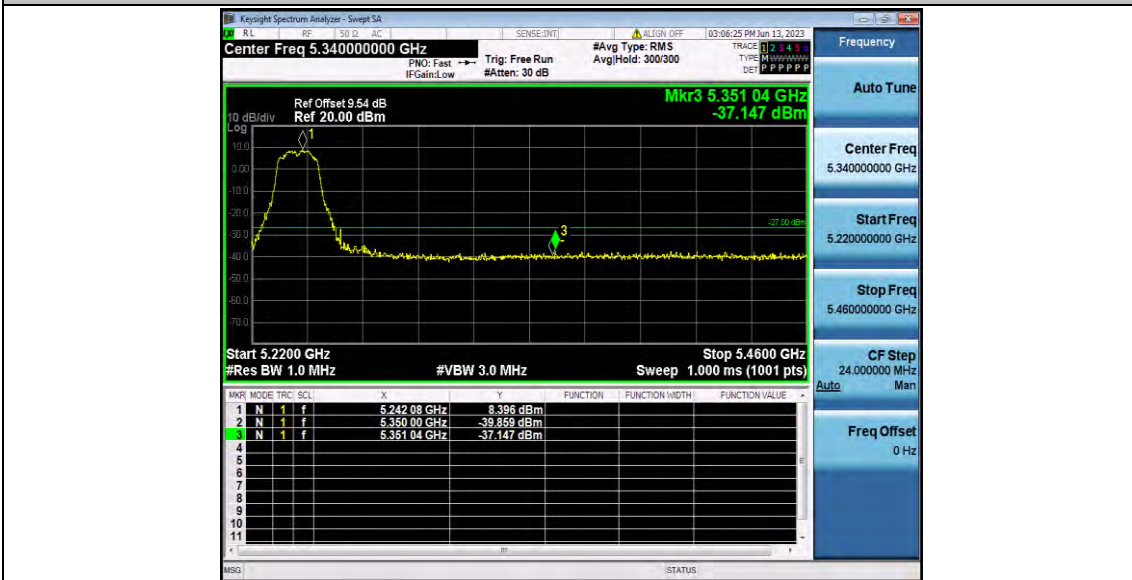
11A_Ant1_Low_5180



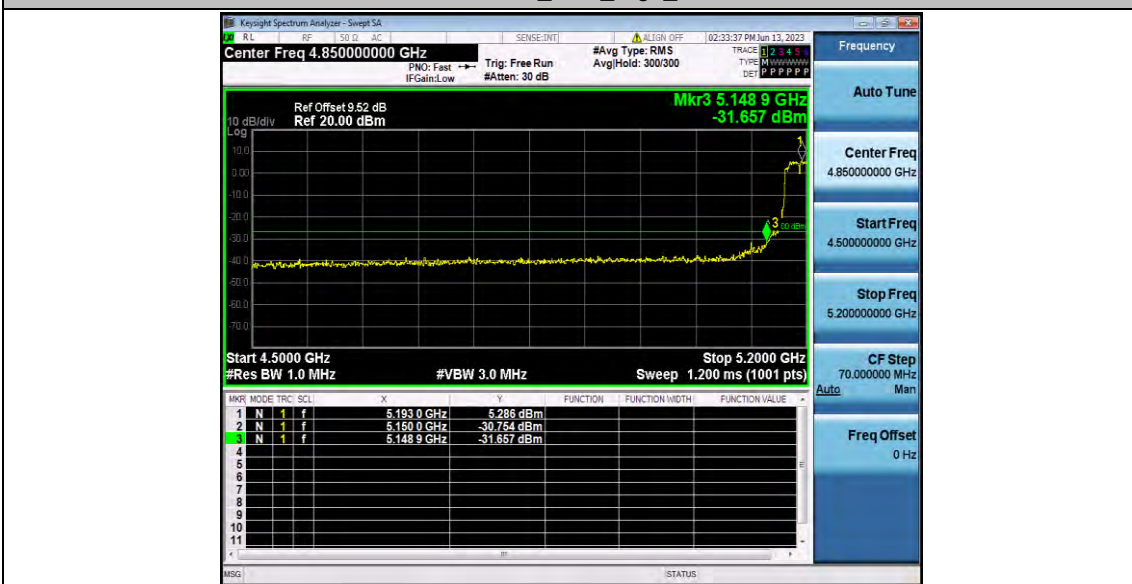
11A_Ant1_High_5240



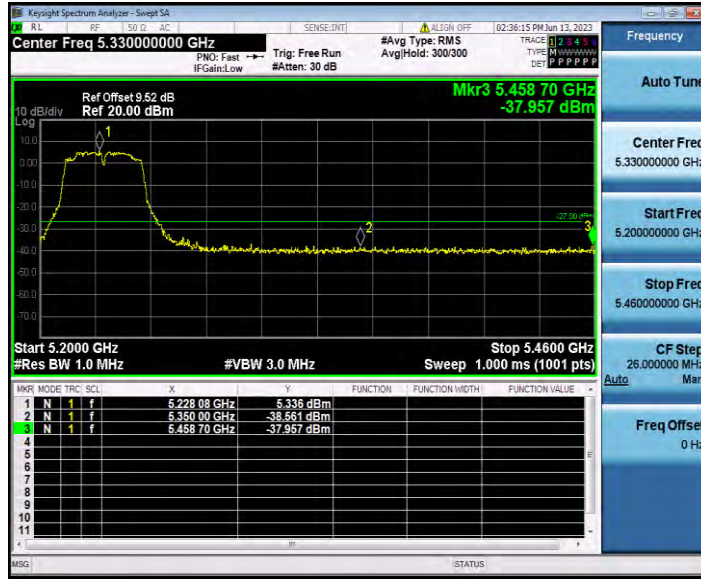
11N20SISO_Ant1_Low_5180



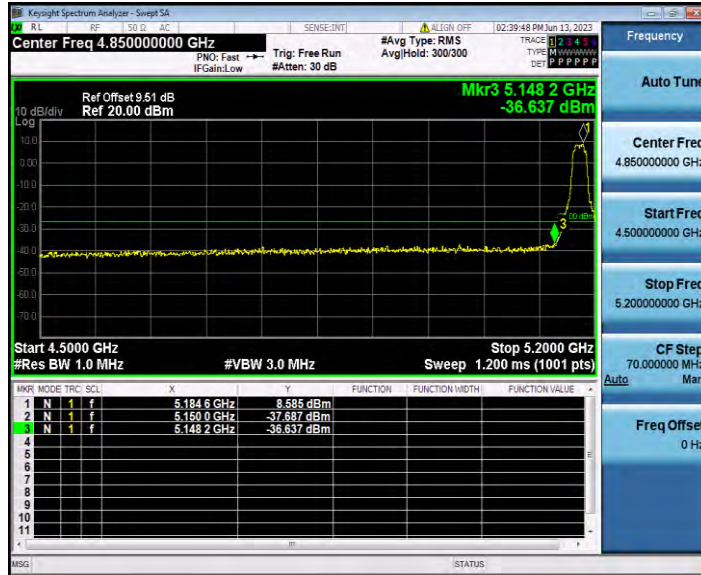
11N20SISO_Ant1_High_5240



11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



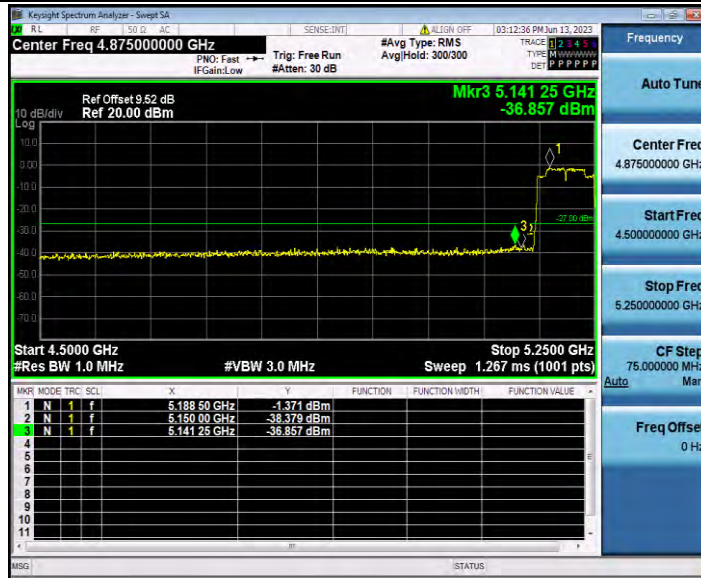
11AC20SISO_Ant1_High_5240



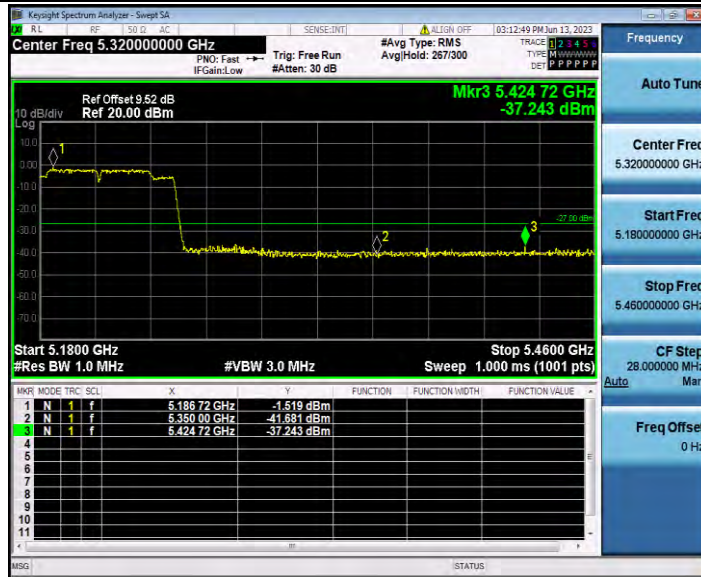
11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210

Appendix D.7: Conducted Spurious Emission

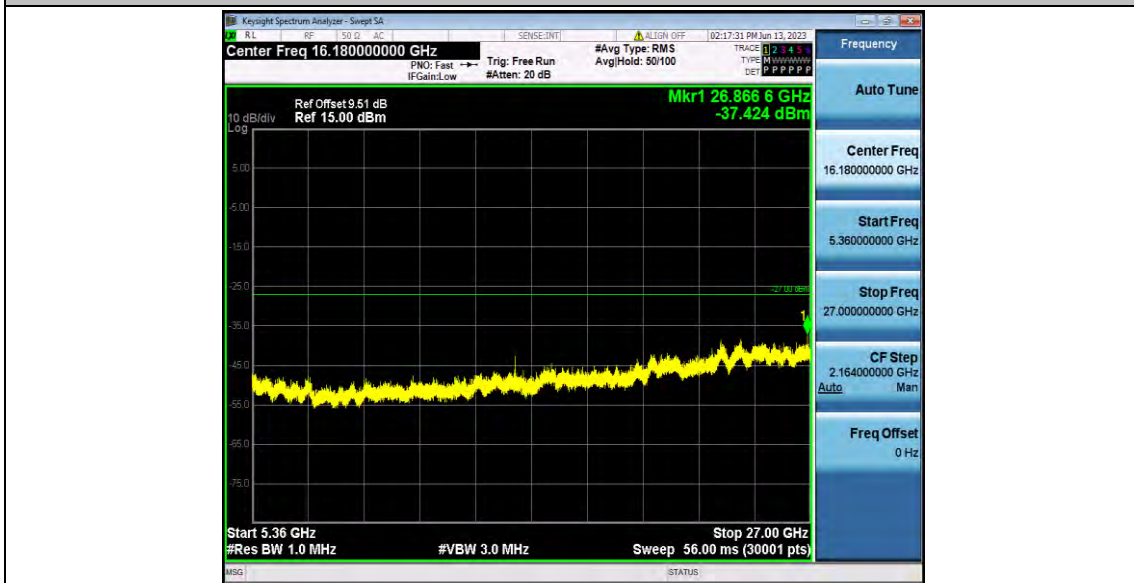
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5138.64	-40.73	≤-27	PASS
			5360~40000	26866.55	-37.42	≤-27	PASS
		5200	30~5140	5140	-43.39	≤-27	PASS
			5360~40000	26051.45	-38.37	≤-27	PASS
		5240	30~5140	5106.1	-44.51	≤-27	PASS
			5360~40000	26842.75	-37.77	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5136.08	-38.14	≤-27	PASS
			5360~40000	26073.81	-38.03	≤-27	PASS
		5200	30~5140	5140	-43.31	≤-27	PASS
			5360~40000	25149.78	-38.36	≤-27	PASS
		5240	30~5140	5082.6	-43.84	≤-27	PASS
			5360~40000	23607.57	-37.62	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5129.61	-34.15	≤-27	PASS
			5360~40000	24152.9	-37.87	≤-27	PASS
		5230	30~5140	5100.99	-44.36	≤-27	PASS
			5360~40000	25003.35	-38.29	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5130.63	-40.99	≤-27	PASS
			5360~40000	26029.81	-37.84	≤-27	PASS
		5200	30~5140	5136.93	-44.4	≤-27	PASS
			5360~40000	26865.11	-37.51	≤-27	PASS
		5240	30~5140	5075.61	-43.86	≤-27	PASS
			5360~40000	24219.26	-37.97	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5129.1	-36.9	≤-27	PASS
			5360~40000	26627.79	-37.84	≤-27	PASS
		5230	30~5140	5078.85	-43.71	≤-27	PASS
			5360~40000	24247.39	-37.77	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5134.04	-41.74	≤-27	PASS
			5360~40000	24271.2	-37.63	≤-27	PASS

Test Graphs



11A_Ant1_5180_30~5140



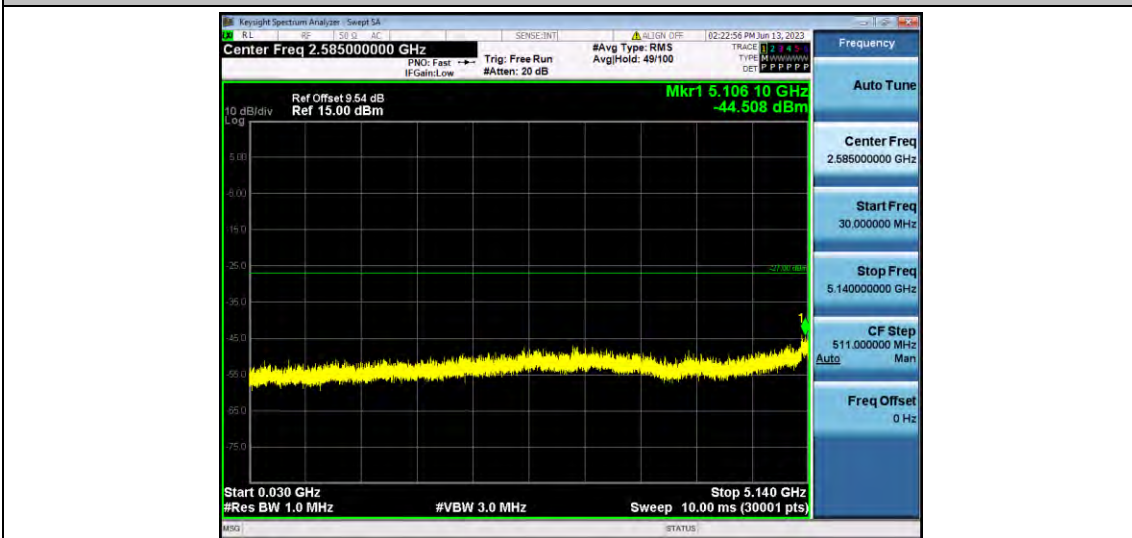
11A_Ant1_5180_5360~40000



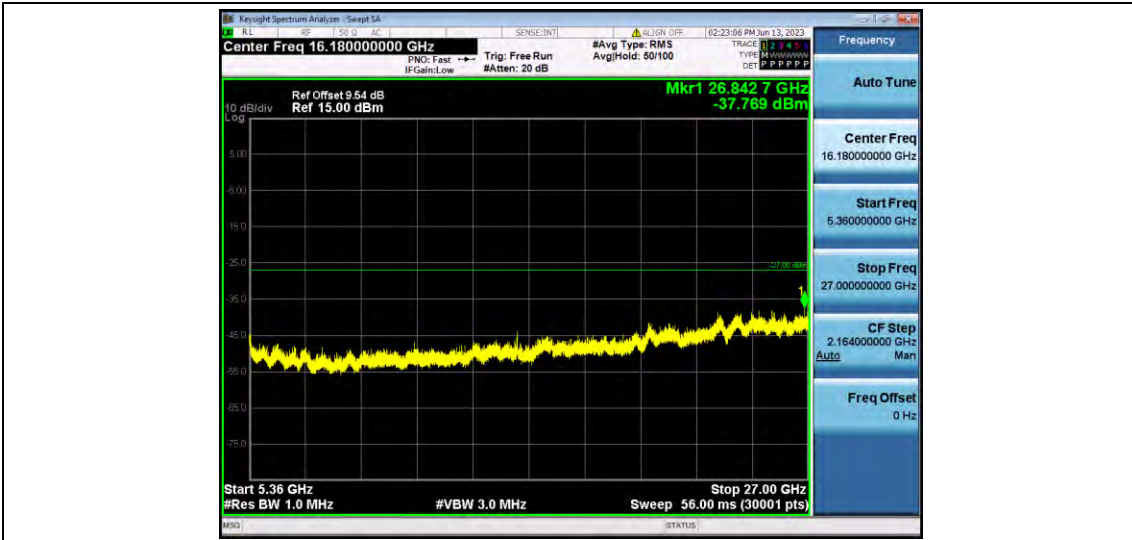
11A_Ant1_5200_30~5140



11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140



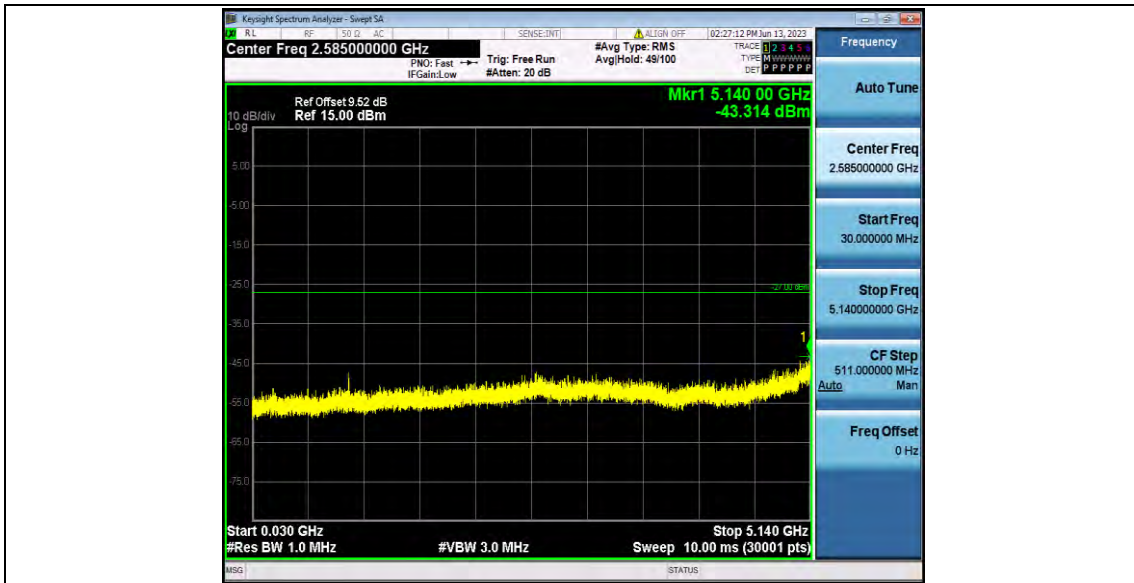
11A_Ant1_5240_5360~40000



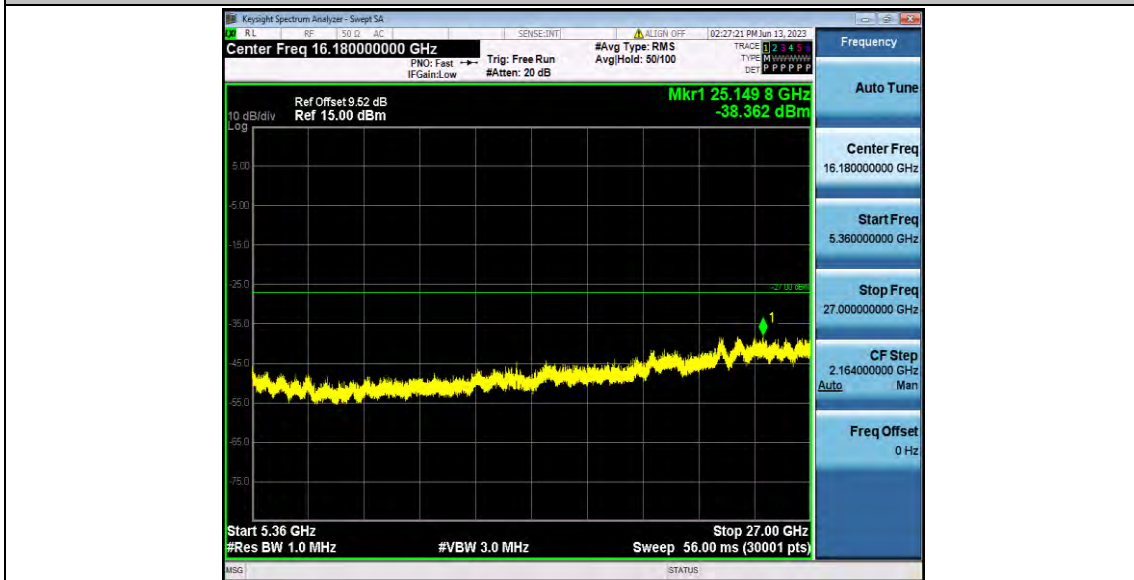
11N20SISO_Ant1_5180_30~5140



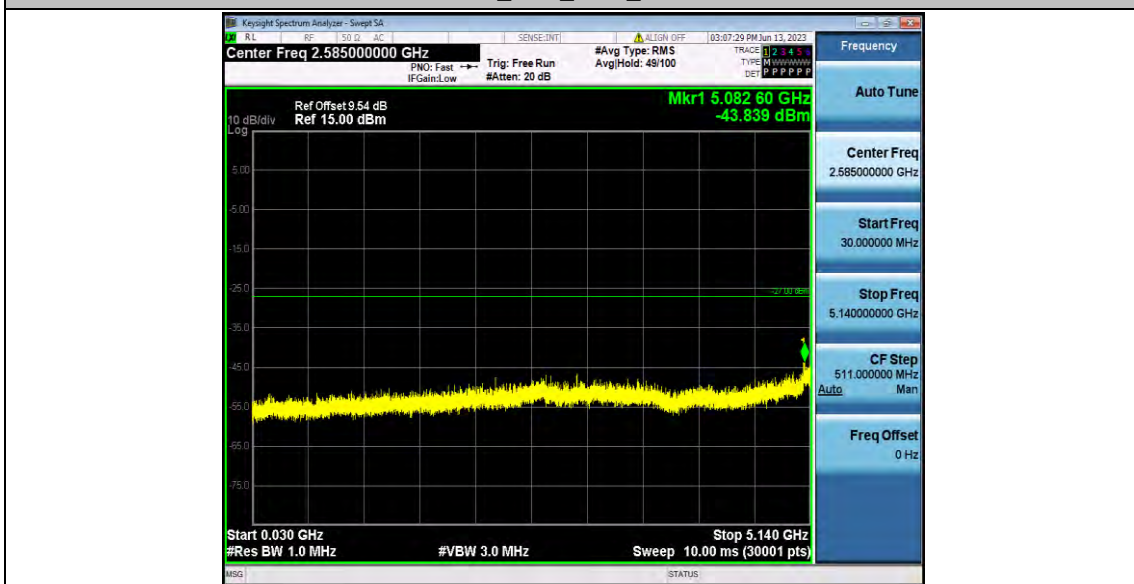
11N20SISO_Ant1_5180_5360~40000



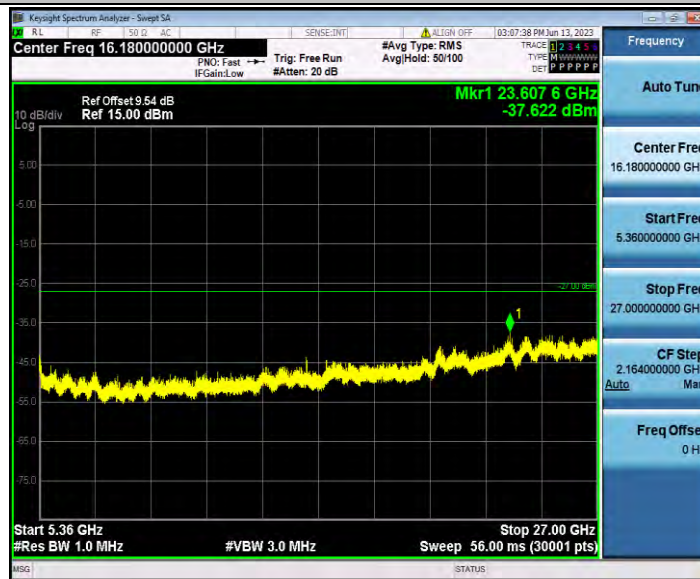
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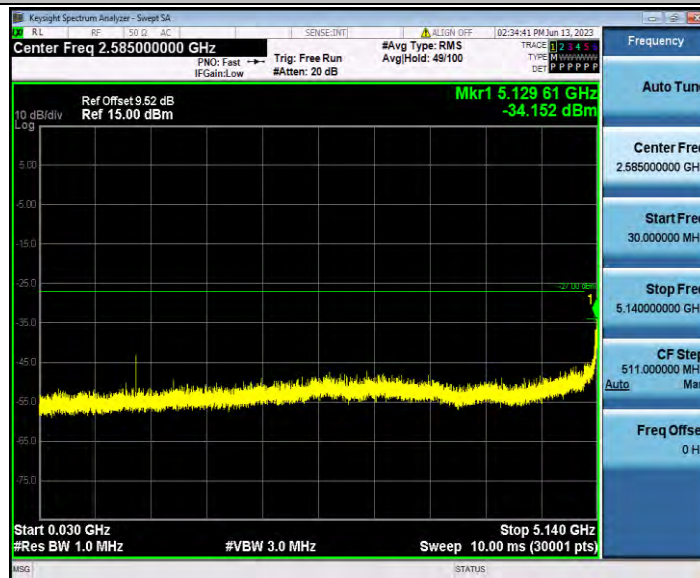
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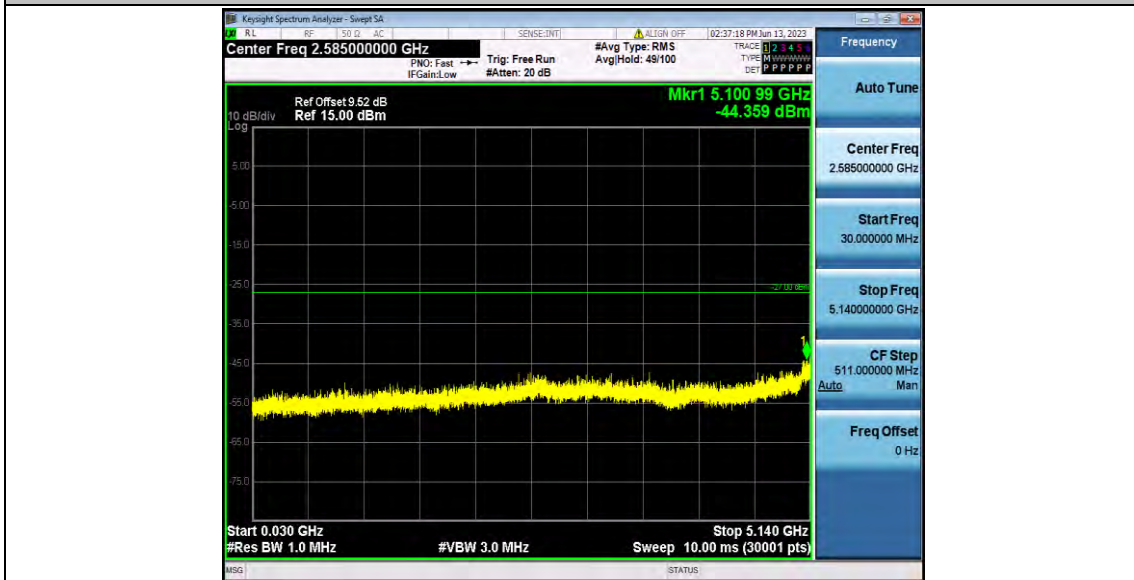
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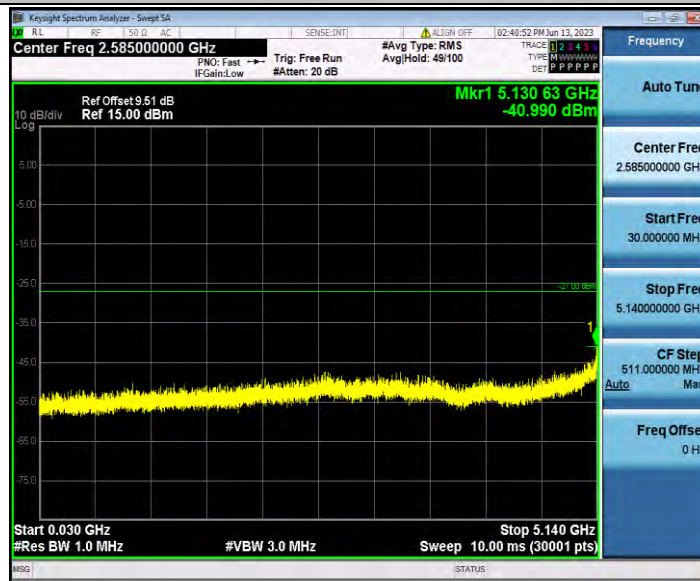
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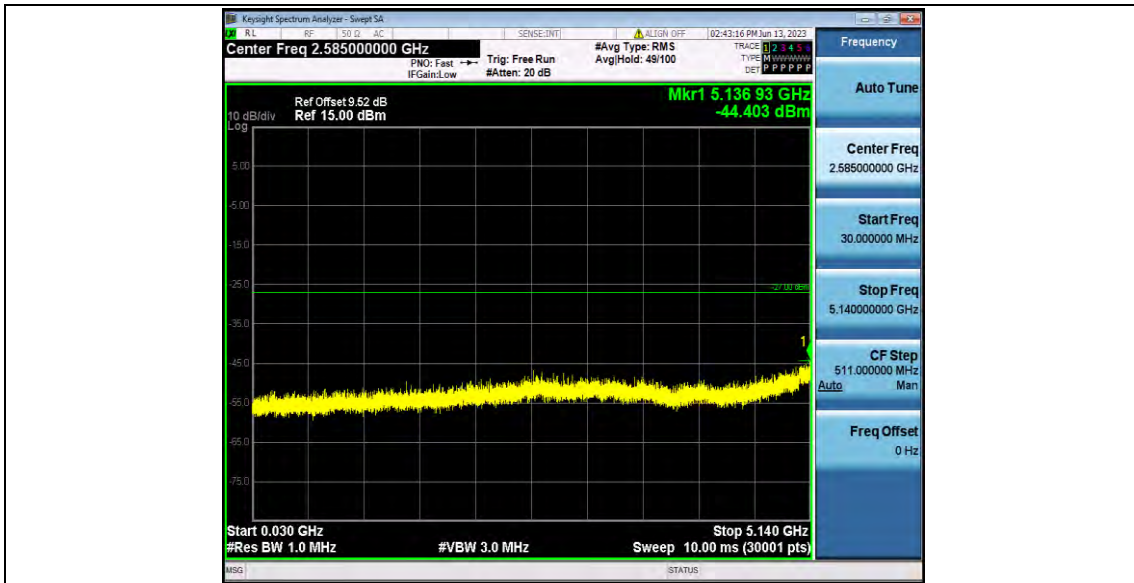
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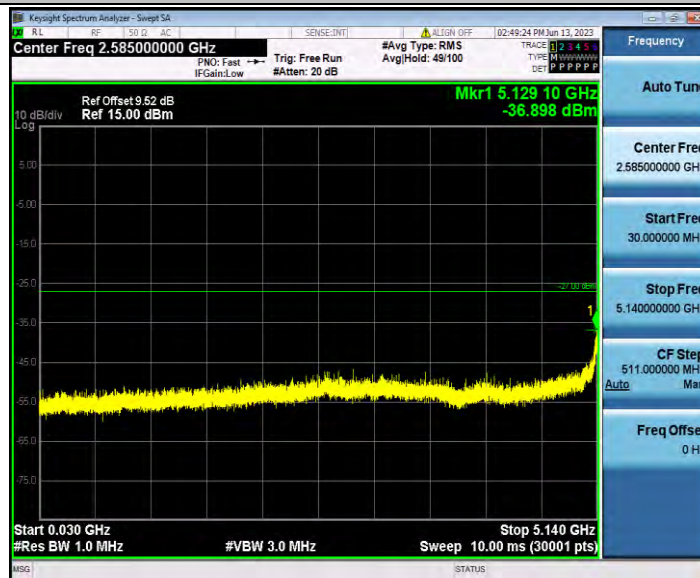
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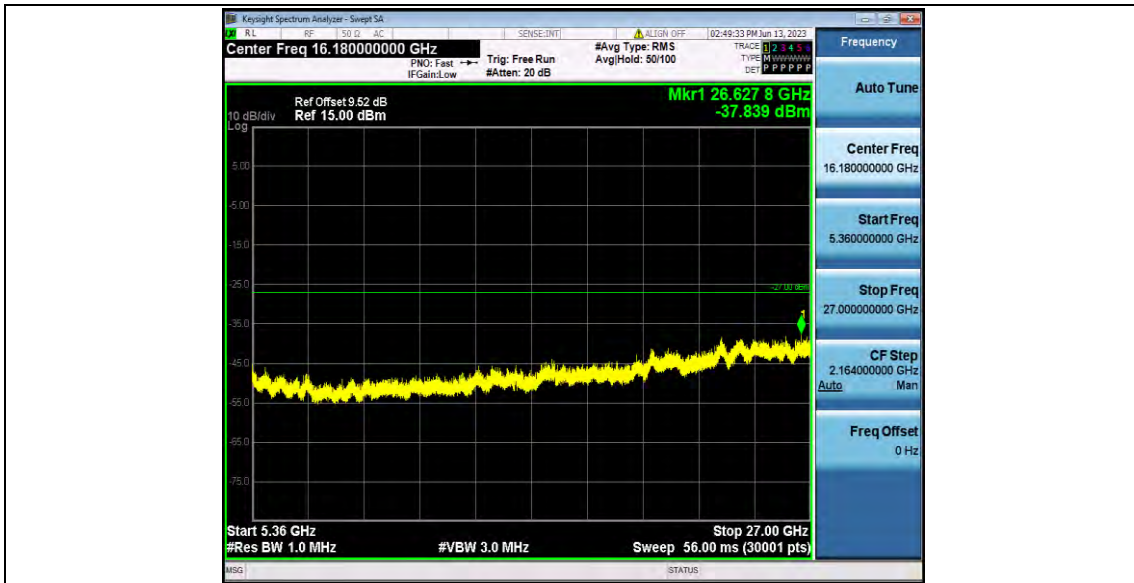
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11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000