

Case No. : <u>GTS20231017004-1-24</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.11.21</u> Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	22.560	5168.840	5191.400	---	---
		5200	22.560	5189.080	5211.640	---	---
		5240	22.480	5228.560	5251.040	---	---
11N20SISO	Ant2	5180	22.880	5168.480	5191.360	---	---
		5200	22.800	5188.560	5211.360	---	---
		5240	22.920	5228.680	5251.600	---	---
11N40SISO	Ant2	5190	43.920	5168.000	5211.920	---	---
		5230	42.880	5208.320	5251.200	---	---
11AC20SISO	Ant2	5180	22.480	5168.520	5191.000	---	---
		5200	23.120	5188.400	5211.520	---	---
		5240	23.560	5228.080	5251.640	---	---
11AC40SISO	Ant2	5190	43.680	5168.480	5212.160	---	---
		5230	44.320	5207.840	5252.160	---	---
11AC80SISO	Ant2	5210	83.680	5168.080	5251.760	---	---

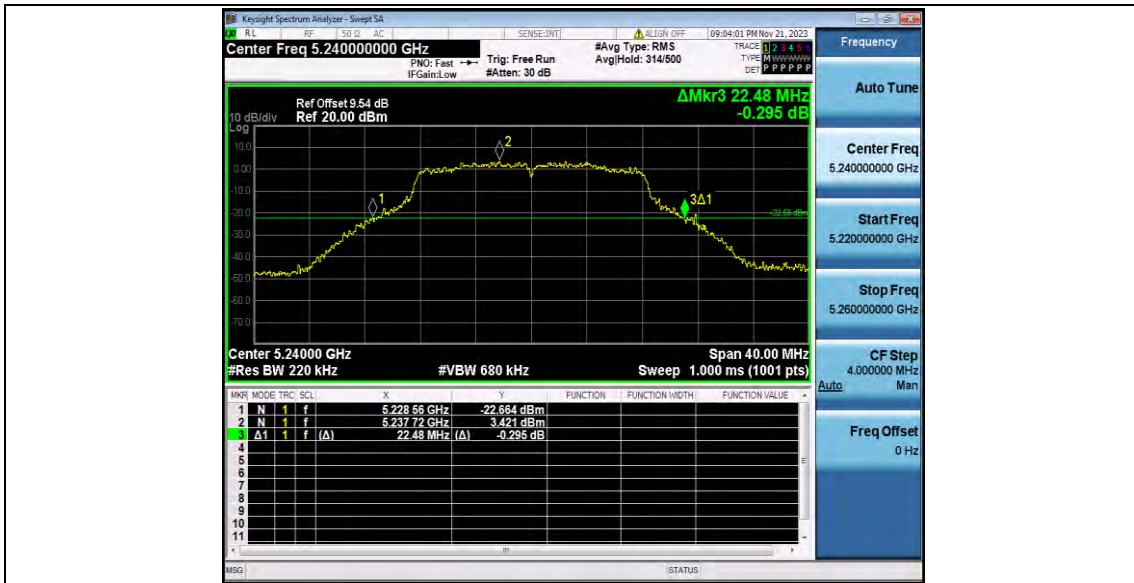
Test Graphs



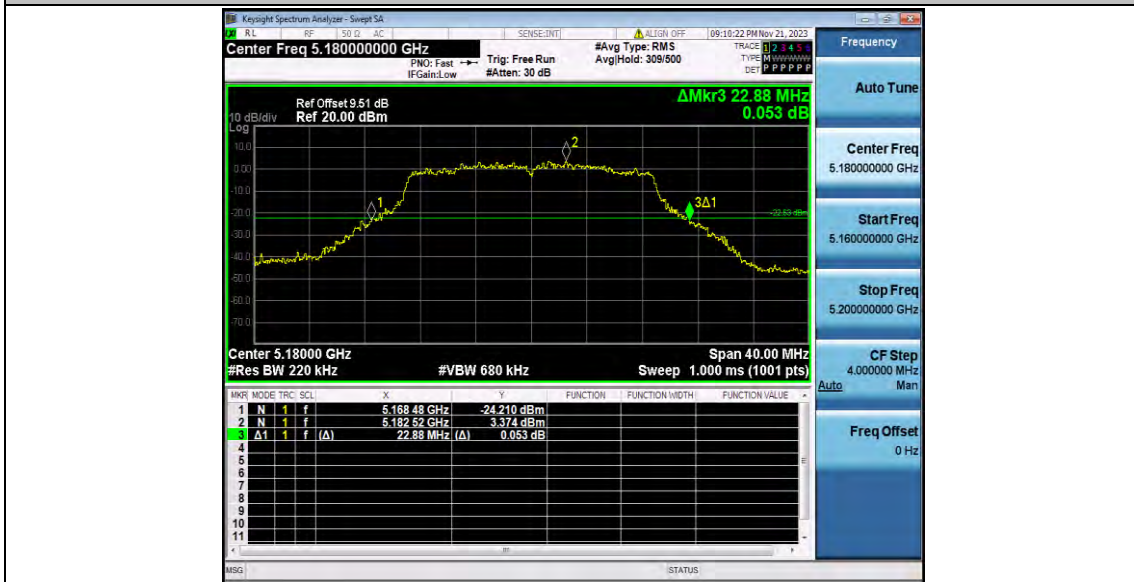
11A_Ant2_5180



11A_Ant2_5200



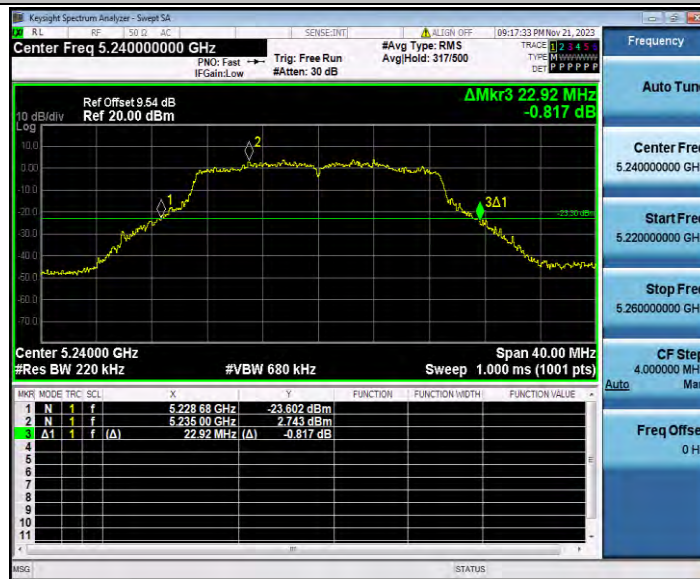
11A_Ant2_5240



11N20SISO_Ant2_5180



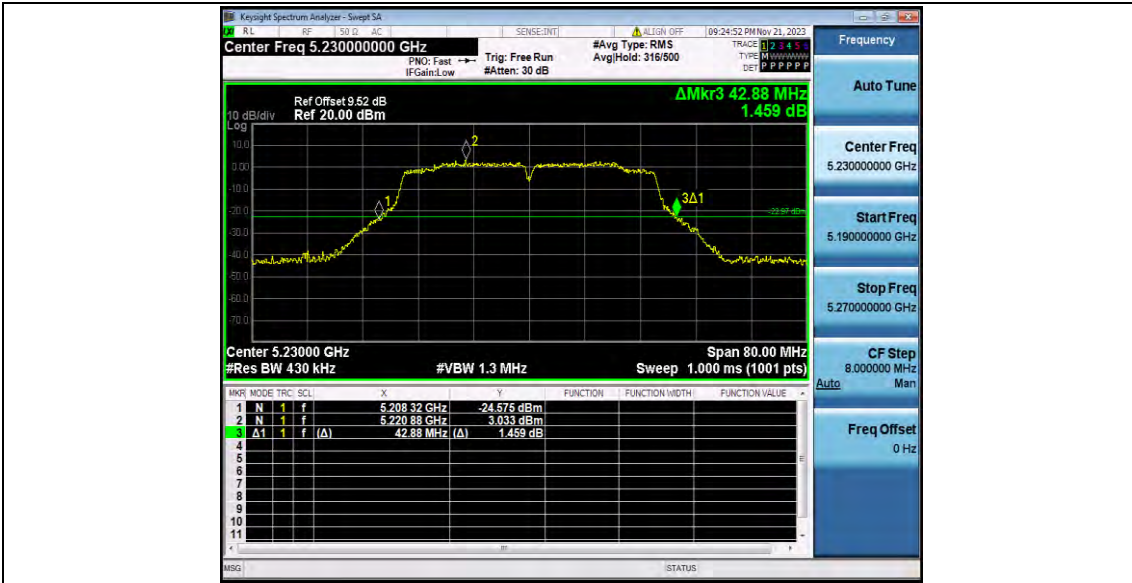
11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



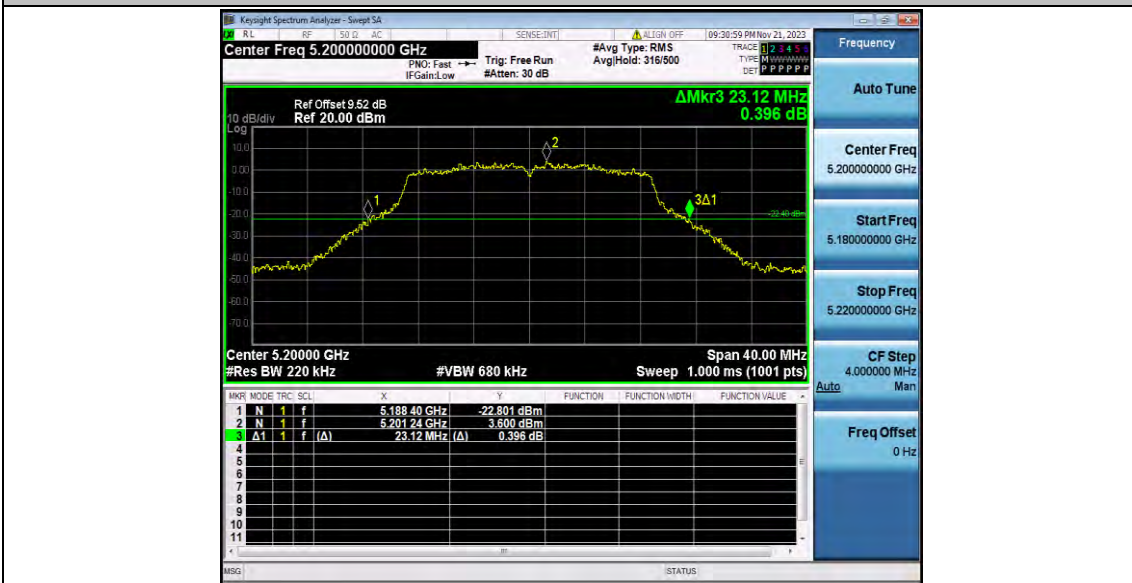
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



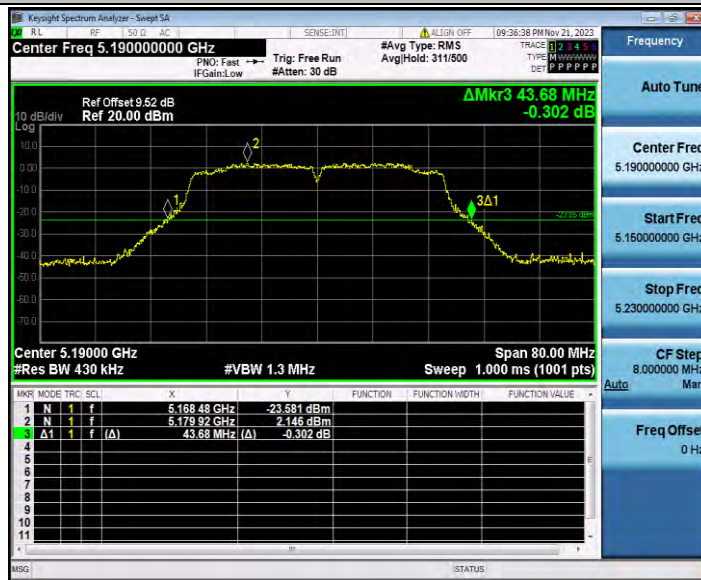
11AC20SISO_Ant2_5180



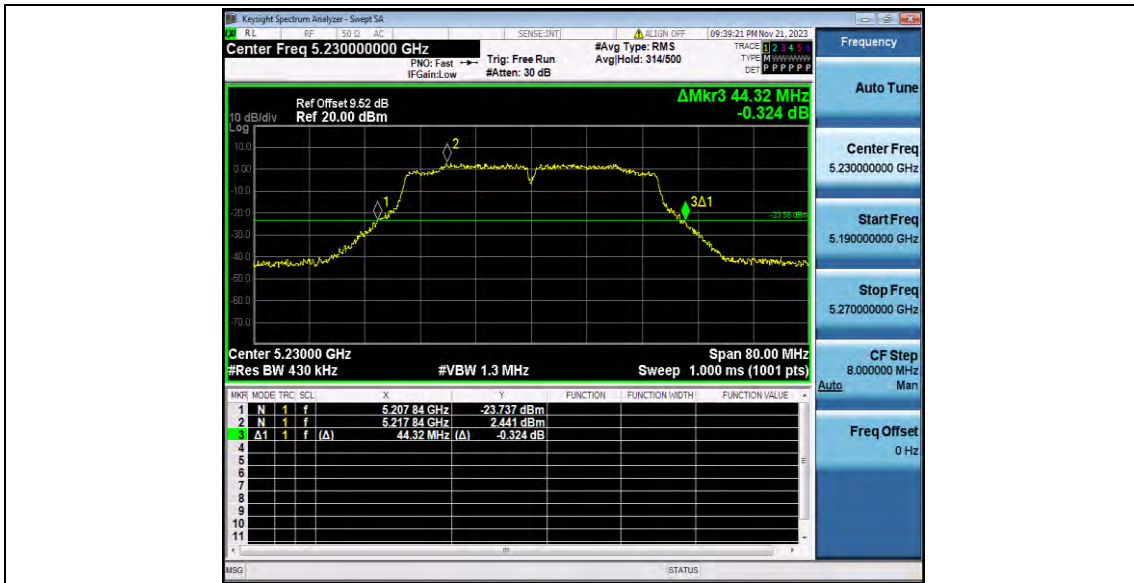
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

Appendix D.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	16.981	5171.521	5188.502	---	---
		5200	16.921	5191.523	5208.444	---	---
		5240	16.947	5231.503	5248.450	---	---
11N20SISO	Ant2	5180	18.006	5170.996	5189.002	---	---
		5200	17.964	5191.020	5208.984	---	---
		5240	18.039	5230.973	5249.012	---	---
11N40SISO	Ant2	5190	36.264	5171.886	5208.150	---	---
		5230	36.268	5211.857	5248.125	---	---
11AC20SISO	Ant2	5180	18.008	5170.982	5188.990	---	---
		5200	17.985	5190.980	5208.965	---	---
		5240	17.970	5230.964	5248.934	---	---
11AC40SISO	Ant2	5190	36.213	5171.934	5208.147	---	---
		5230	36.274	5211.846	5248.120	---	---
11AC80SISO	Ant2	5210	75.198	5172.393	5247.591	---	---

Test Graphs



11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



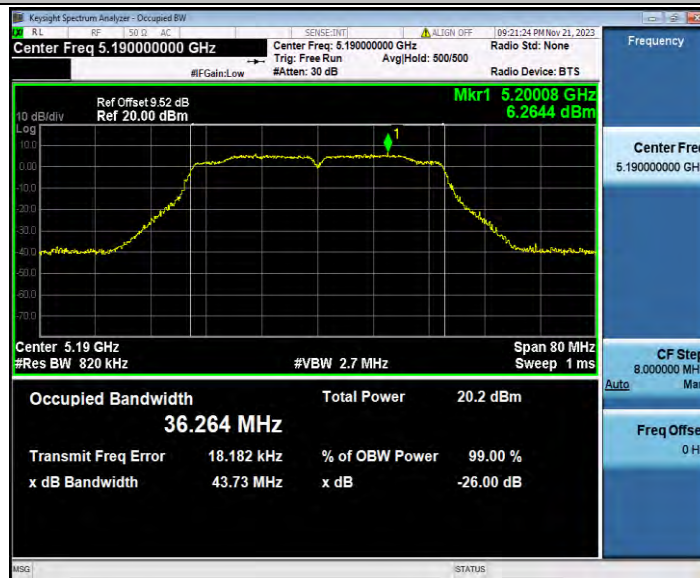
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



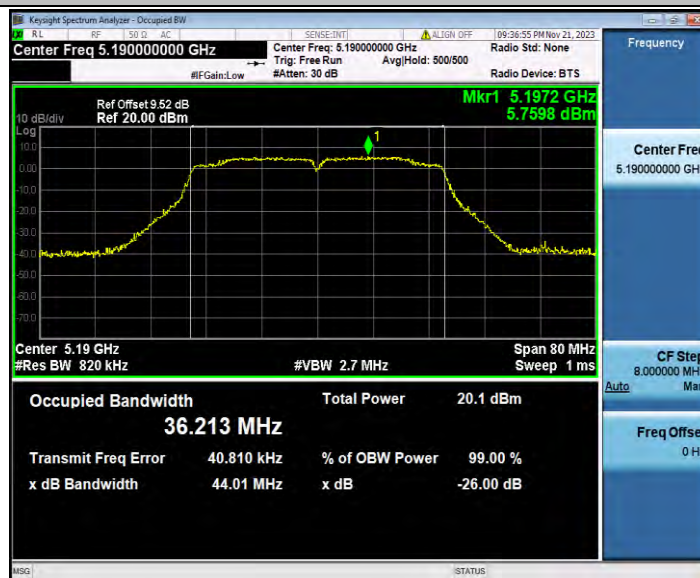
11A20SISO_Ant2_5180



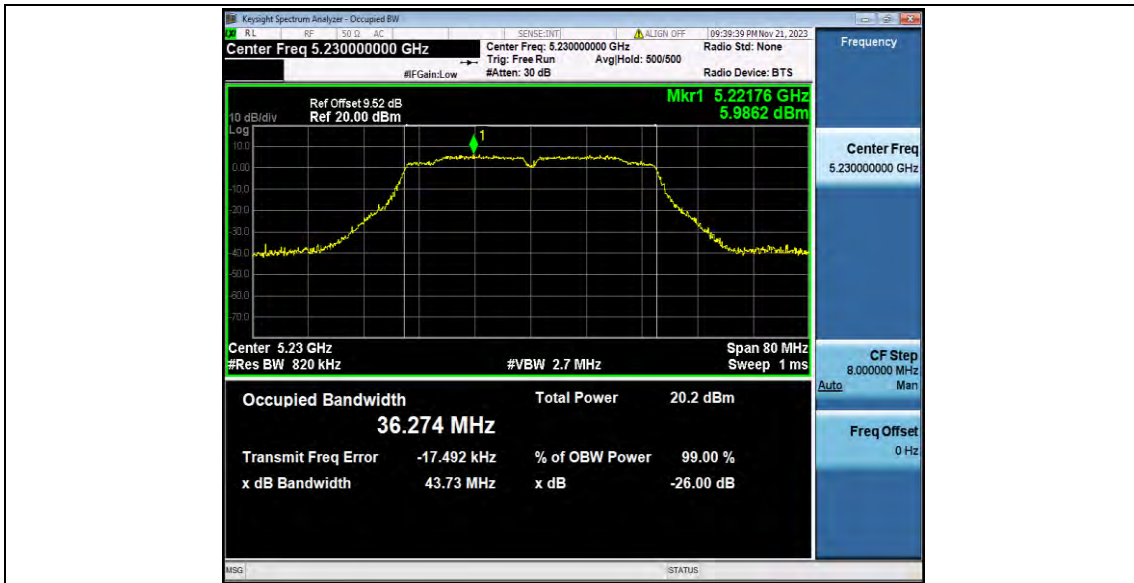
11AC20SISO_Ant2_5200



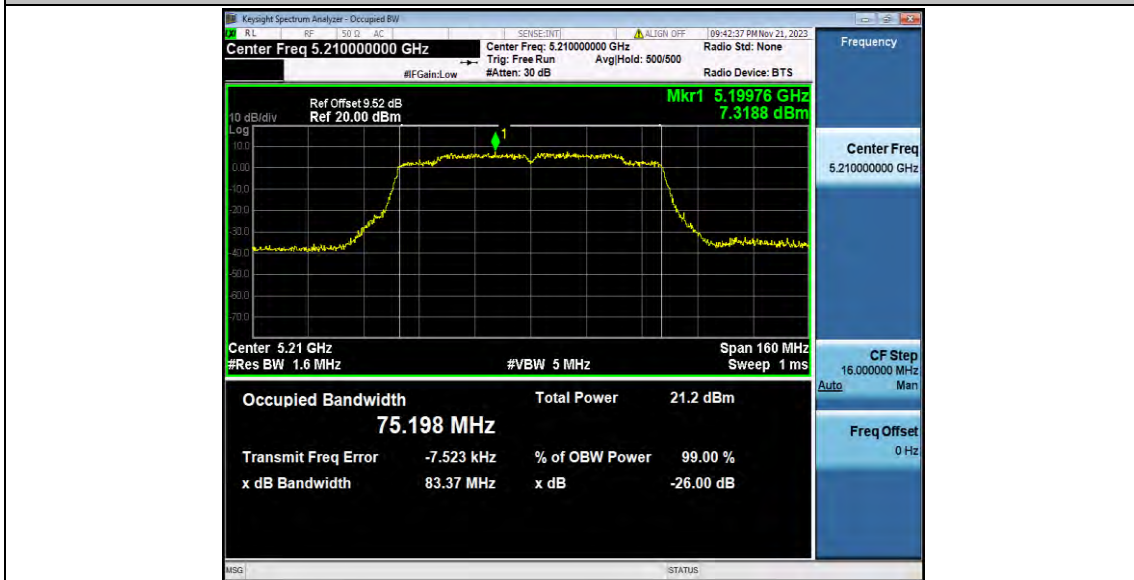
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



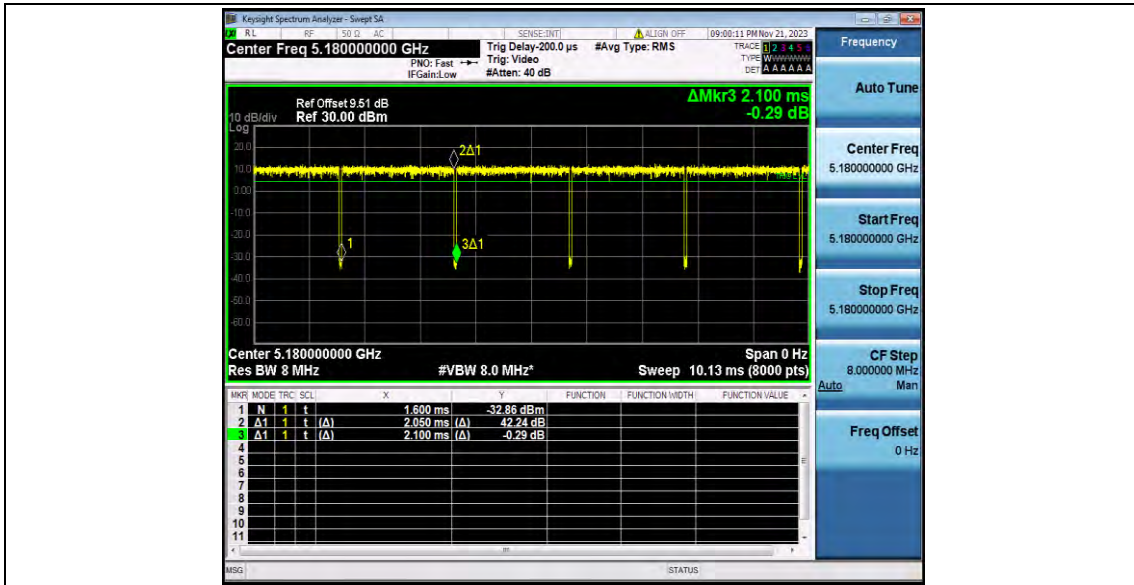
11AC80SISO_Ant2_5210

Appendix D.3: Duty Cycle

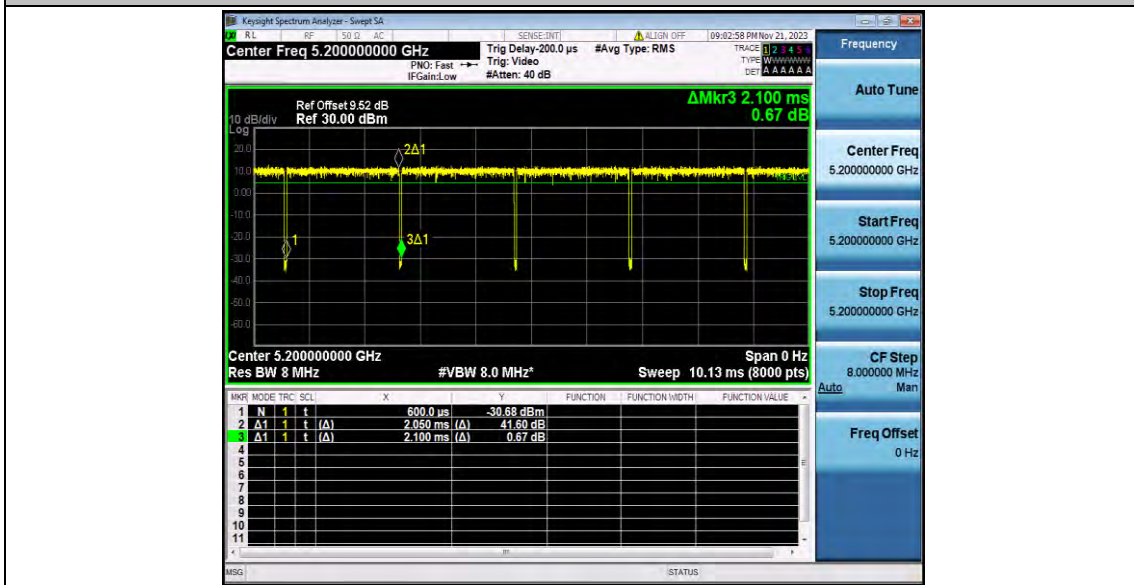
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.05	2.10	97.62
		5200	2.05	2.10	97.62
		5240	2.05	2.09	98.09
11N20SISO	Ant2	5180	1.91	1.95	97.95
		5200	1.91	1.96	97.45
		5240	1.90	1.95	97.44
11N40SISO	Ant2	5190	0.93	0.98	94.90
		5230	0.94	0.98	95.92
11AC20SISO	Ant2	5180	1.91	1.96	97.45
		5200	1.92	1.96	97.96
		5240	1.91	1.96	97.45
11AC40SISO	Ant2	5190	0.94	0.99	94.95
		5230	0.94	0.99	94.95
11AC80SISO	Ant2	5210	0.46	0.51	90.20

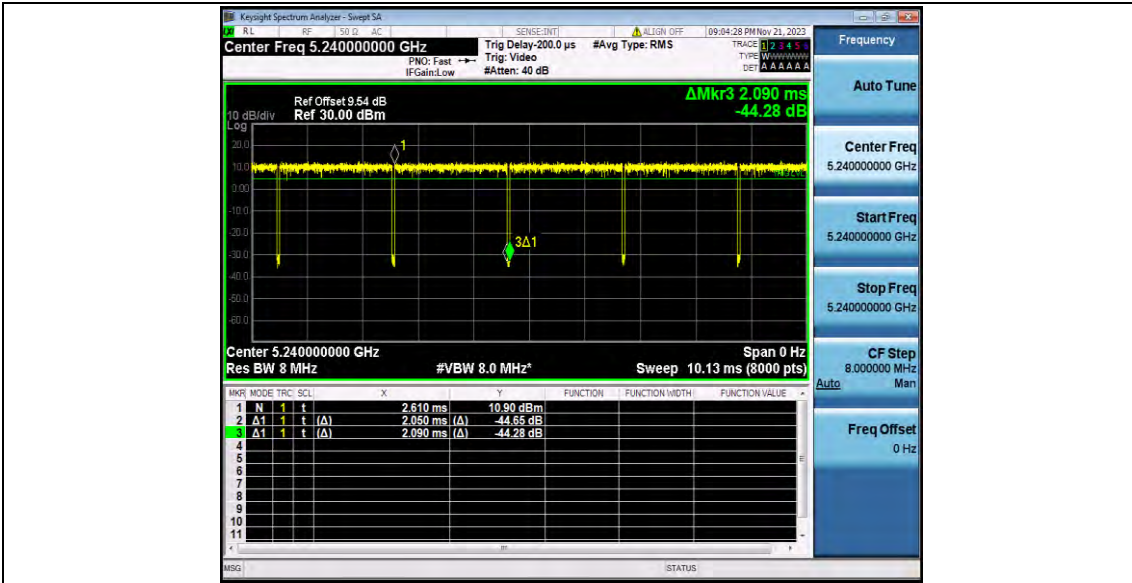
Test Graphs



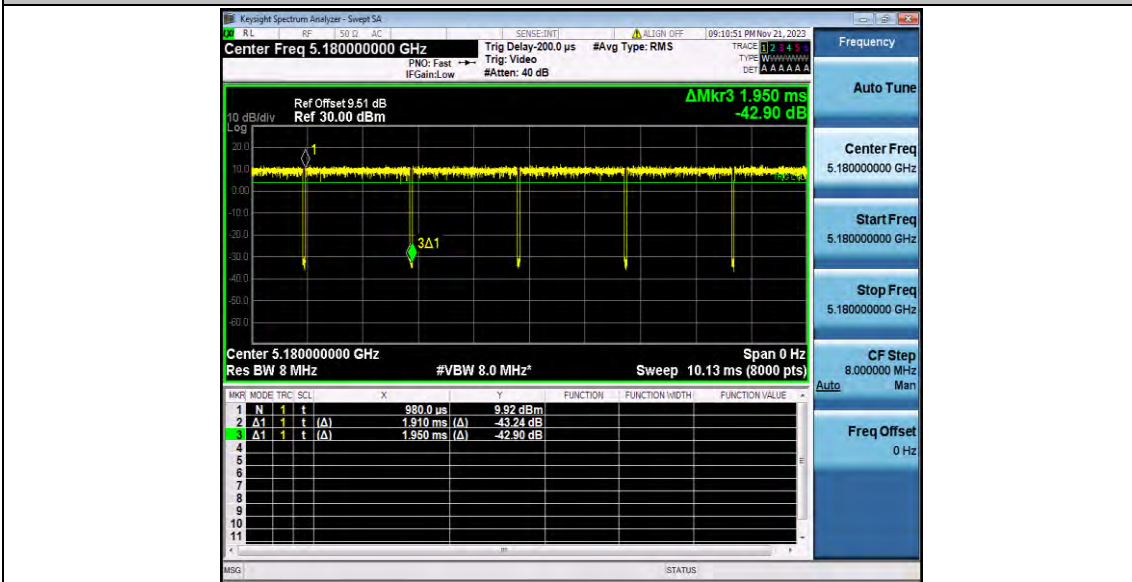
11A_Ant2_5180



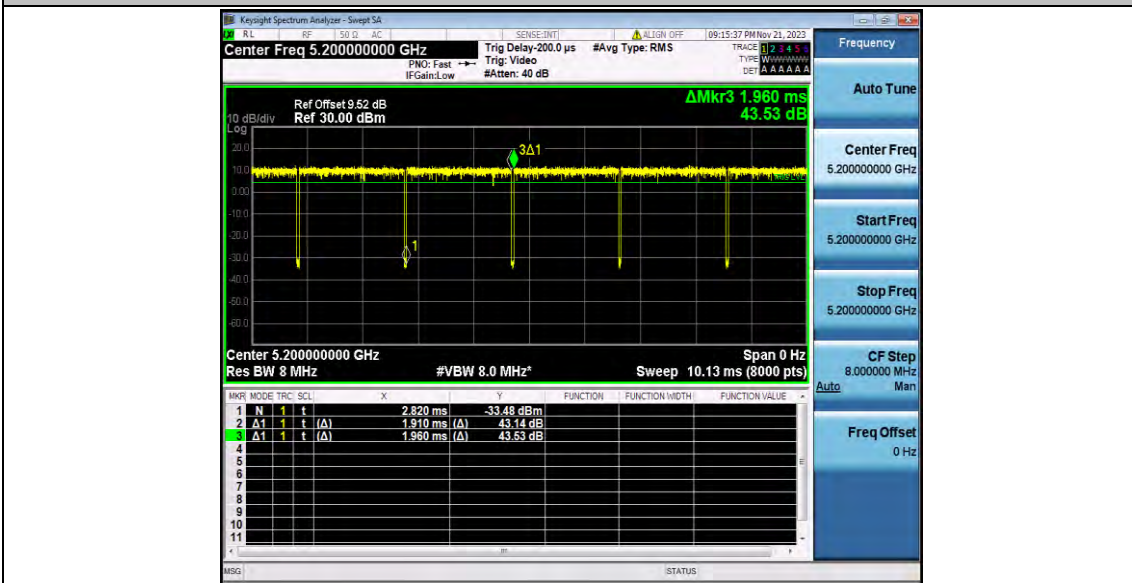
11A_Ant2_5200



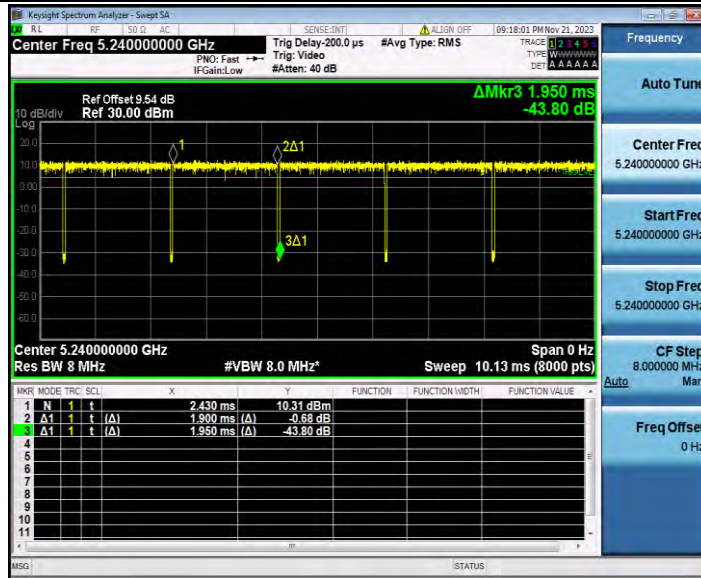
11A_Ant2_5240



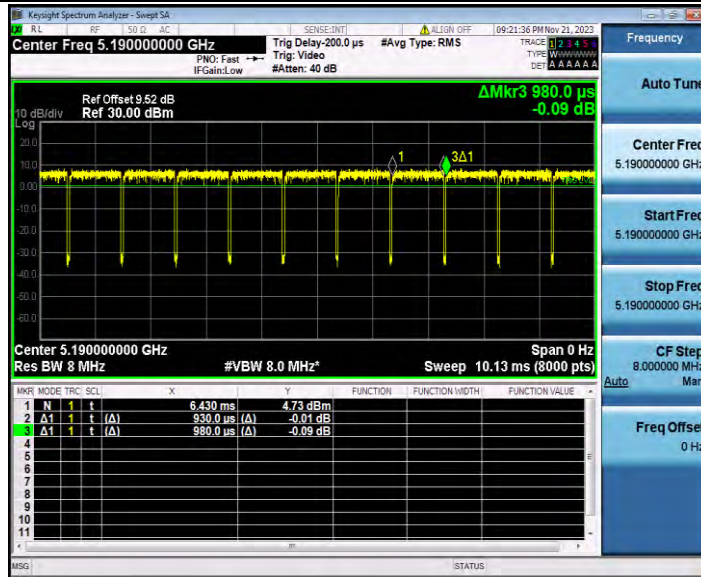
11N20SISO_Ant2_5180



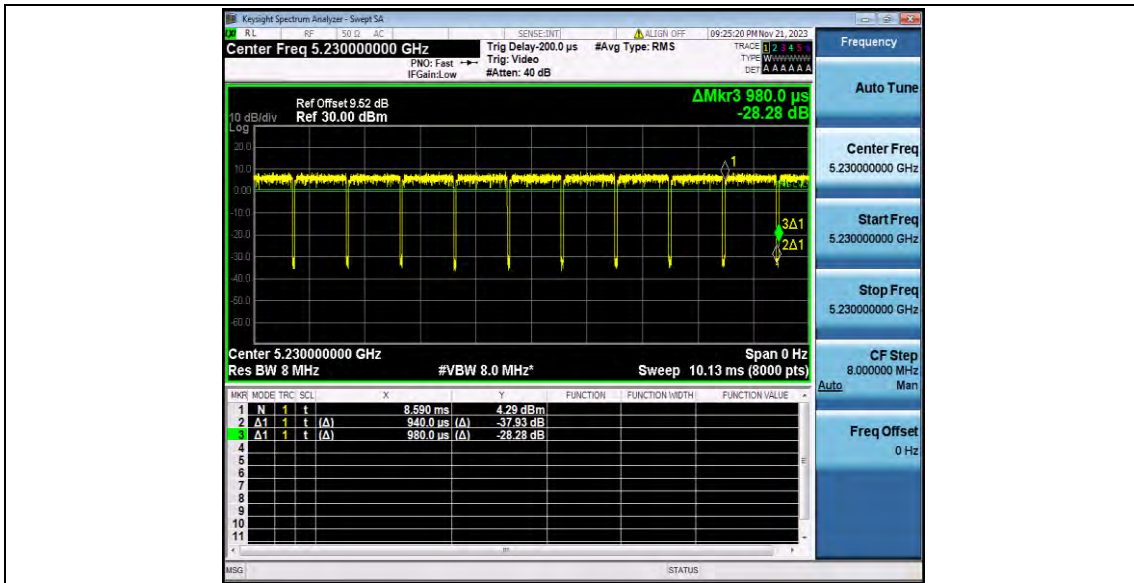
11N20SISO_Ant2_5200



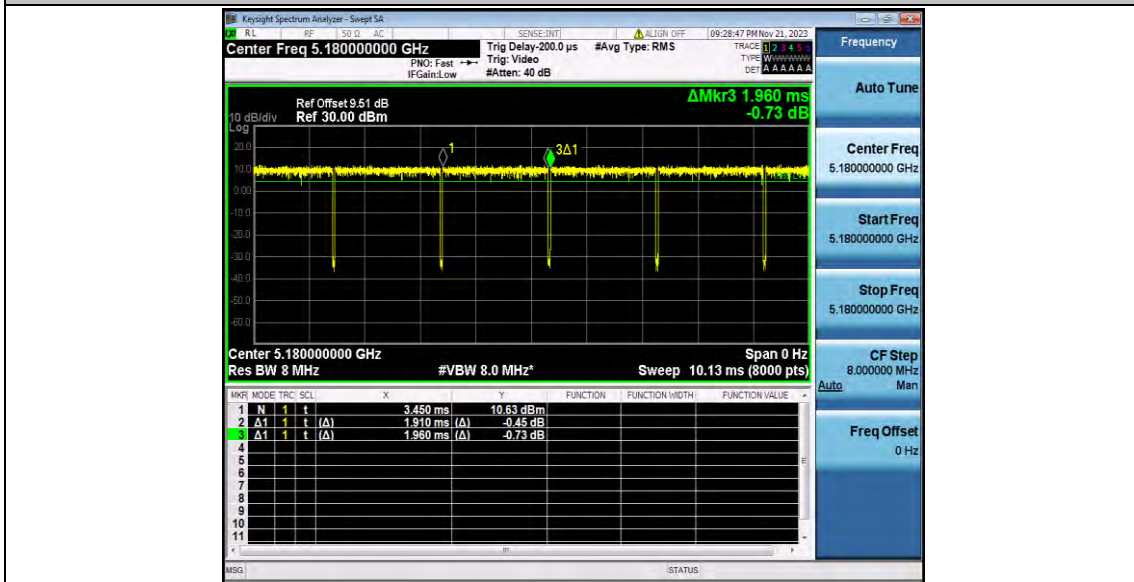
11N20SISO_Ant2_5240



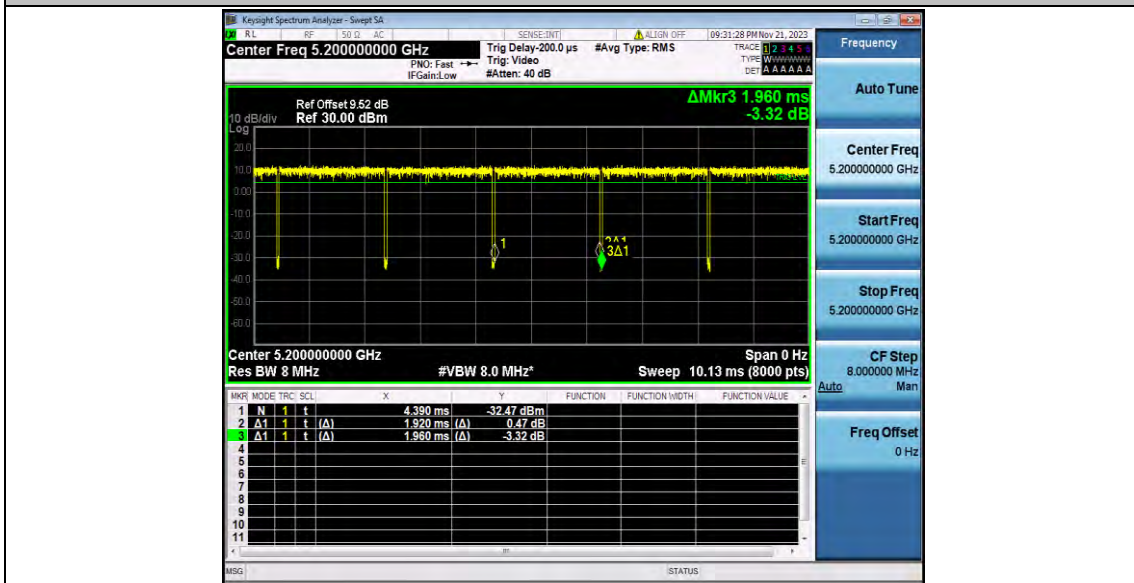
11N40SISO_Ant2_5190



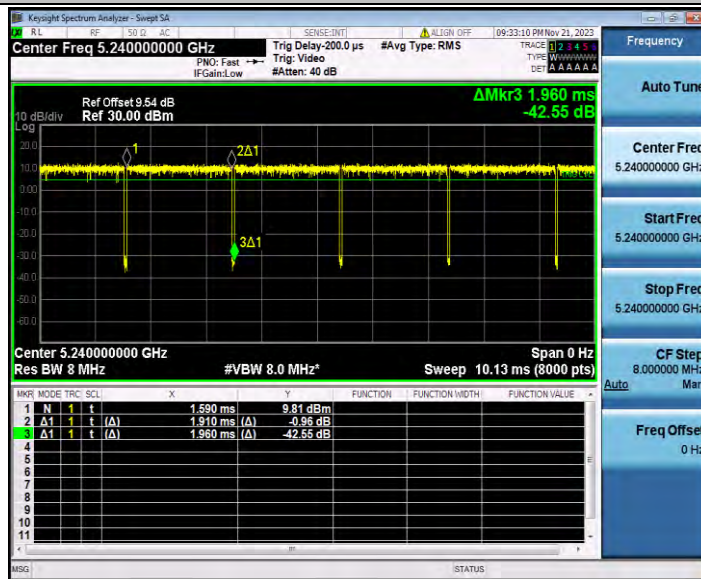
11N40SISO_Ant2_5230



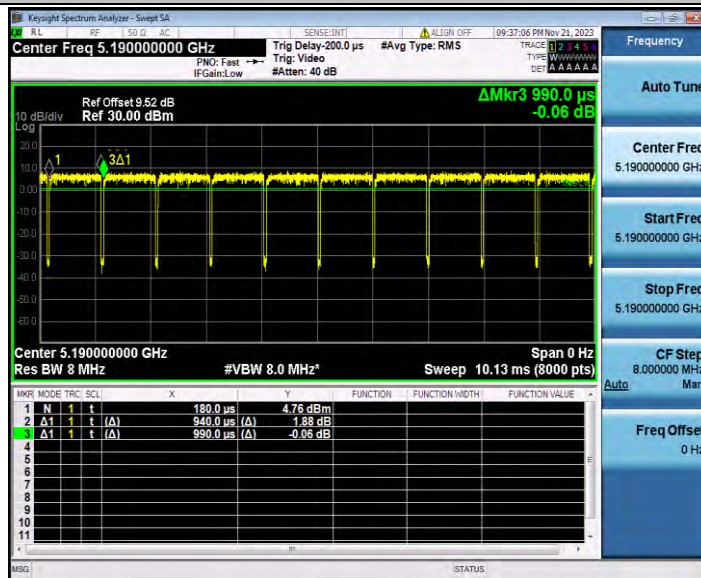
11AC20SISO_Ant2_5180



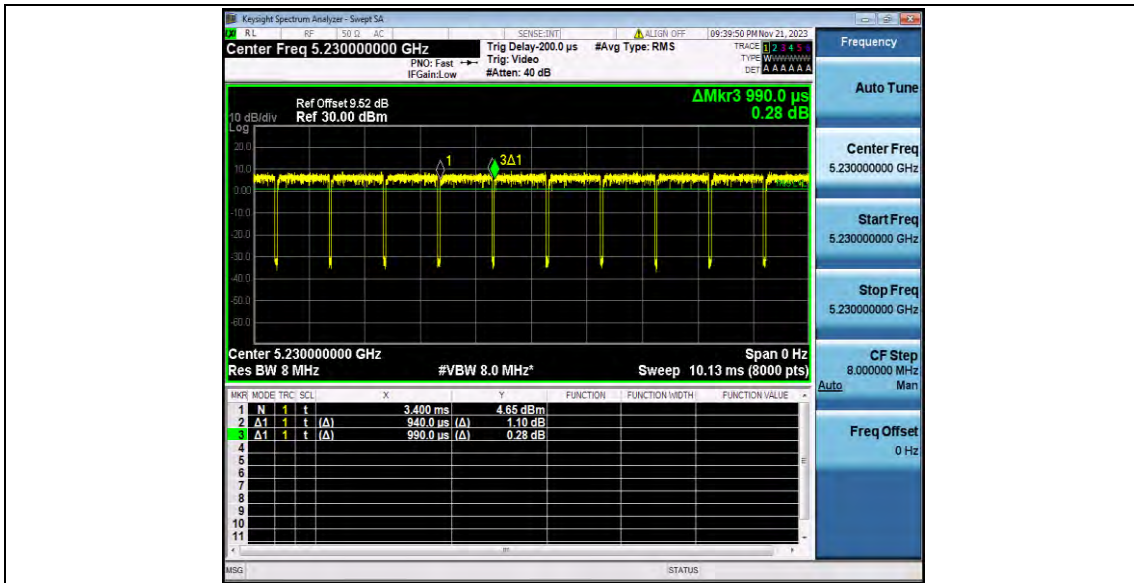
11AC20SISO_Ant2_5200



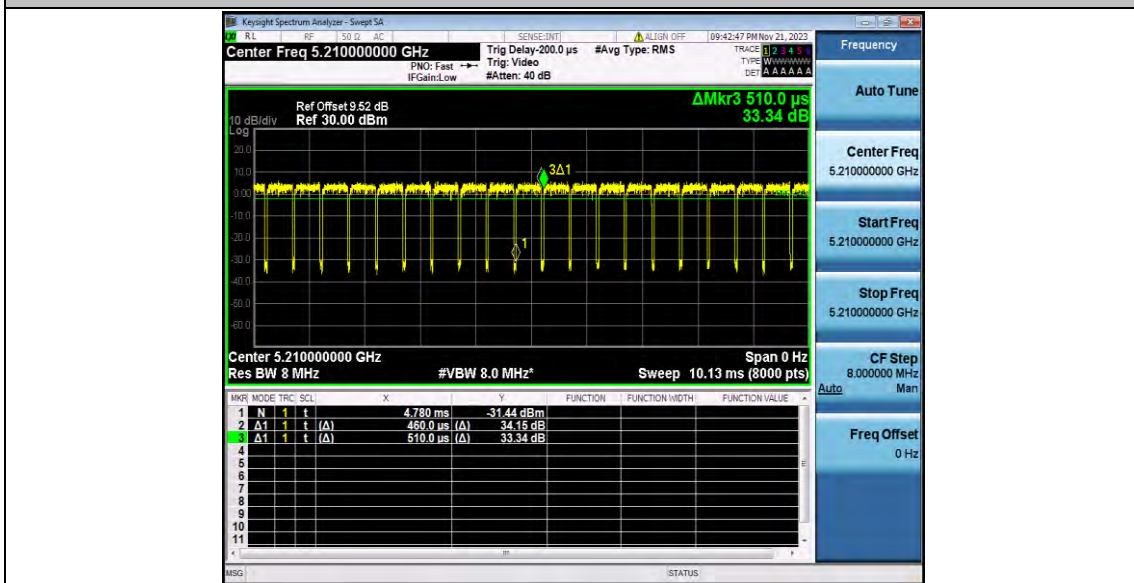
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_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	Ant2	5180	12.41	97.62	0.10	12.51	≤23.98	PASS
		5200	12.61	97.62	0.10	12.71	≤23.98	PASS
		5240	12.62	98.09	0.08	12.70	≤23.98	PASS
11N20SISO	Ant2	5180	12.26	97.95	0.09	12.35	≤23.98	PASS
		5200	12.42	97.45	0.11	12.53	≤23.98	PASS
		5240	12.50	97.44	0.11	12.61	≤23.98	PASS
11N40SISO	Ant2	5190	12.31	94.90	0.23	12.54	≤23.98	PASS
		5230	12.42	95.92	0.18	12.60	≤23.98	PASS
11AC20SISO	Ant2	5180	12.22	97.45	0.11	12.33	≤23.98	PASS
		5200	12.47	97.96	0.09	12.56	≤23.98	PASS
		5240	12.49	97.45	0.11	12.60	≤23.98	PASS
11AC40SISO	Ant2	5190	12.28	94.95	0.23	12.51	≤23.98	PASS
		5230	12.37	94.95	0.23	12.60	≤23.98	PASS
11AC80SISO	Ant2	5210	12.00	90.20	0.45	12.45	≤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	Ant2	5180	1.6	≤11.00	PASS
		5200	1.9	≤11.00	PASS
		5240	1.84	≤11.00	PASS
11N20SISO	Ant2	5180	1.23	≤11.00	PASS
		5200	1.4	≤11.00	PASS
		5240	1.54	≤11.00	PASS
11N40SISO	Ant2	5190	-1.83	≤11.00	PASS
		5230	-1.77	≤11.00	PASS
11AC20SISO	Ant2	5180	1.26	≤11.00	PASS
		5200	1.45	≤11.00	PASS
		5240	1.59	≤11.00	PASS
11AC40SISO	Ant2	5190	-1.83	≤11.00	PASS
		5230	-1.83	≤11.00	PASS
11AC80SISO	Ant2	5210	-4.79	≤11.00	PASS

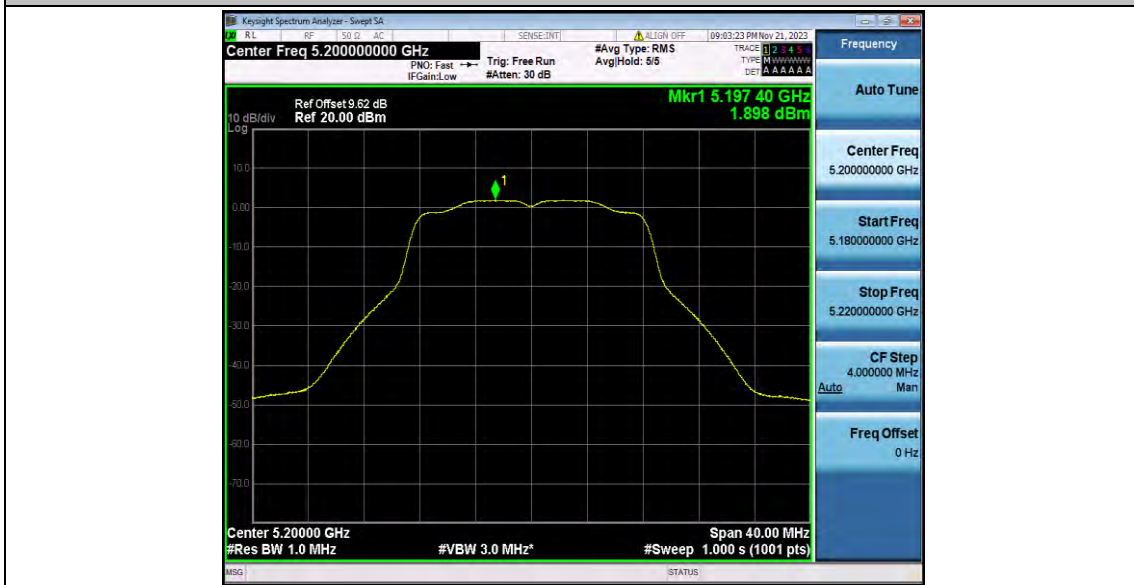
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs



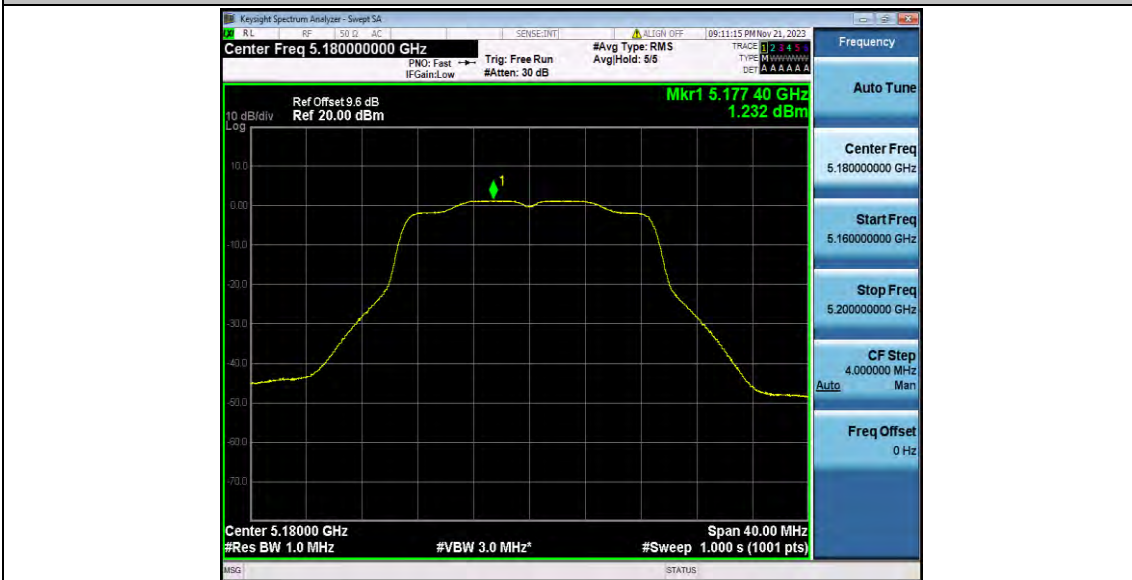
11A_Ant2_5180



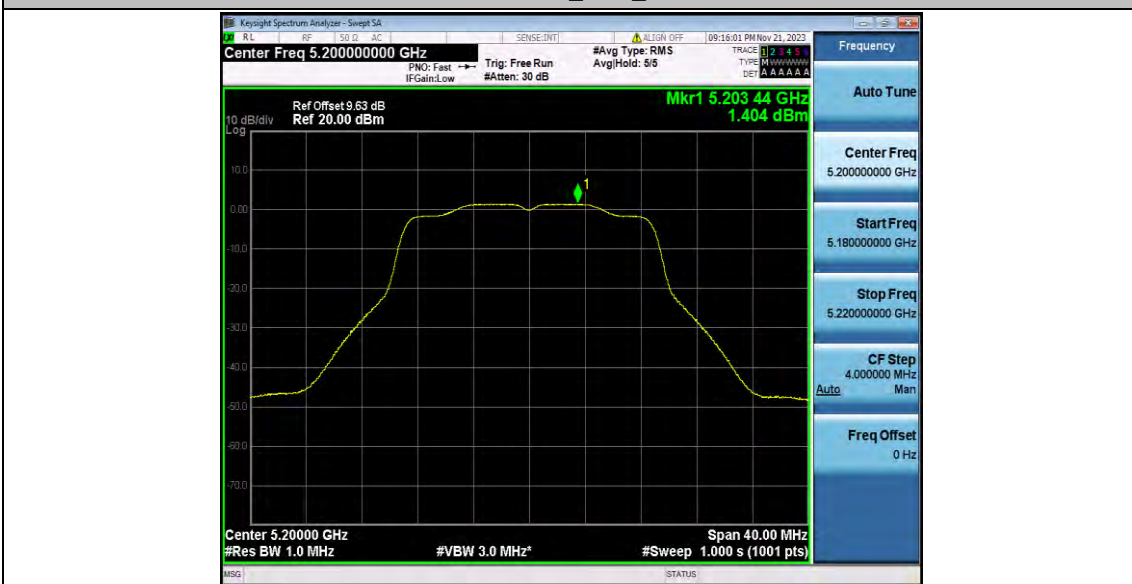
11A_Ant2_5200



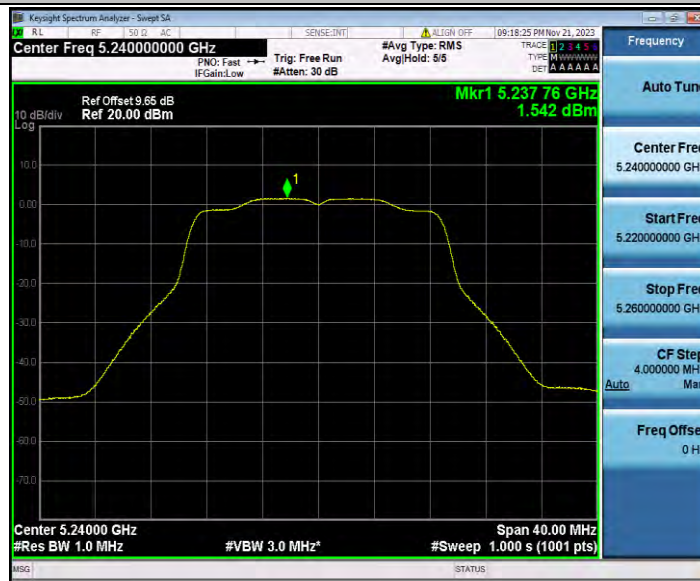
11A_Ant2_5240



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



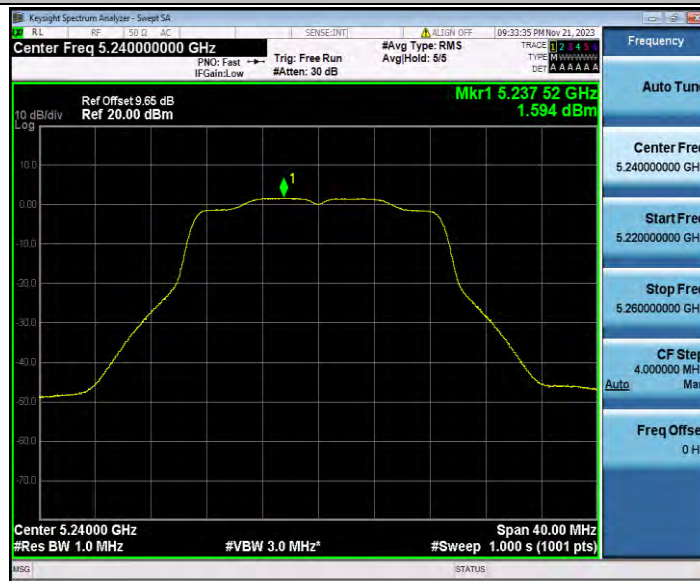
11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

Appendix D.6: Band edge measurements

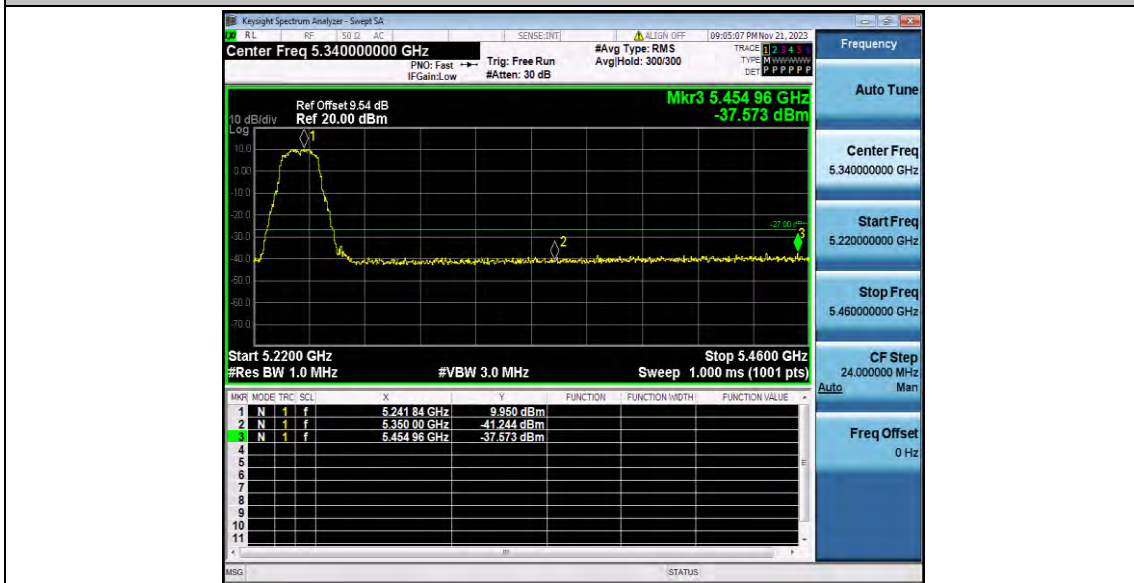
Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-37.55	≤ -27	PASS
		High	5240	-37.57	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-37.52	≤ -27	PASS
		High	5240	-37.8	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-37.63	≤ -27	PASS
		High	5230	-37.92	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-37.25	≤ -27	PASS
		High	5240	-37.52	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-37.37	≤ -27	PASS
		High	5230	-37.94	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-37.46	≤ -27	PASS
		High	5210	-38.37	≤ -27	PASS

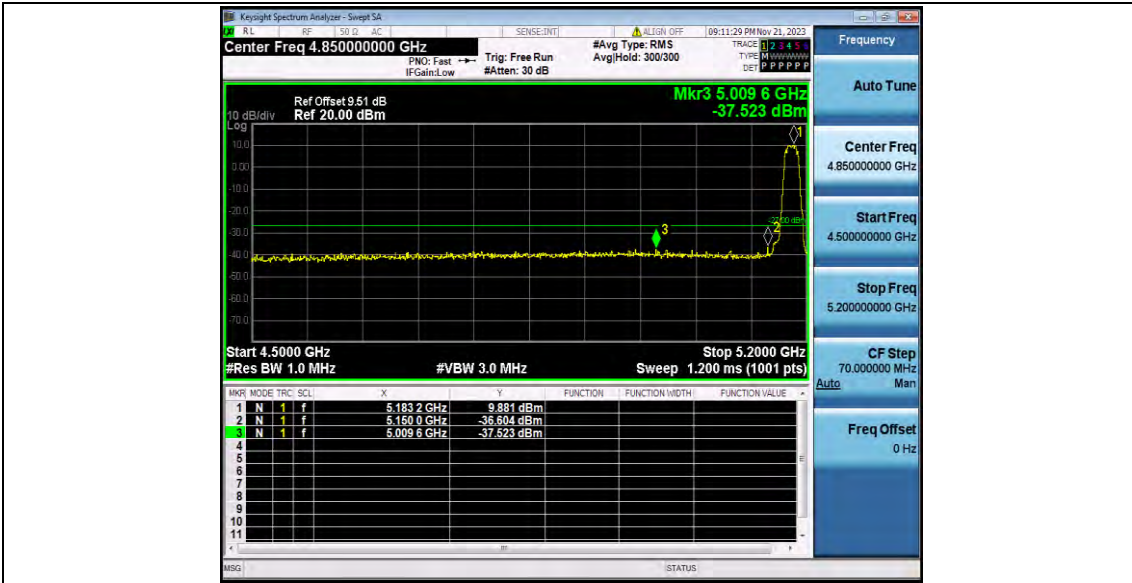
Test Graphs B1



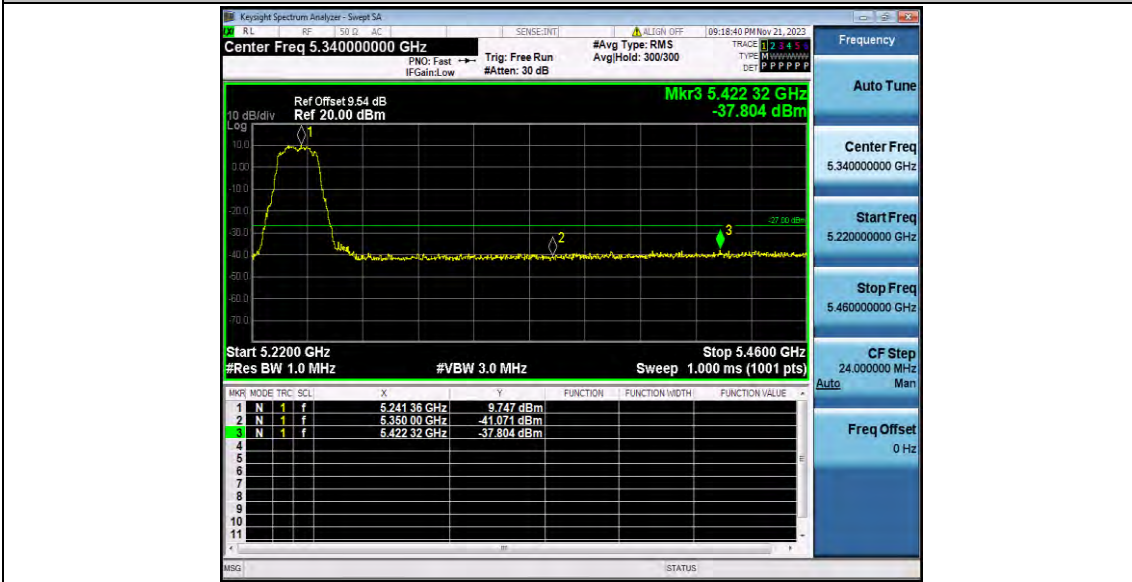
11A_Ant2_Low_5180



11A_Ant2_High_5240



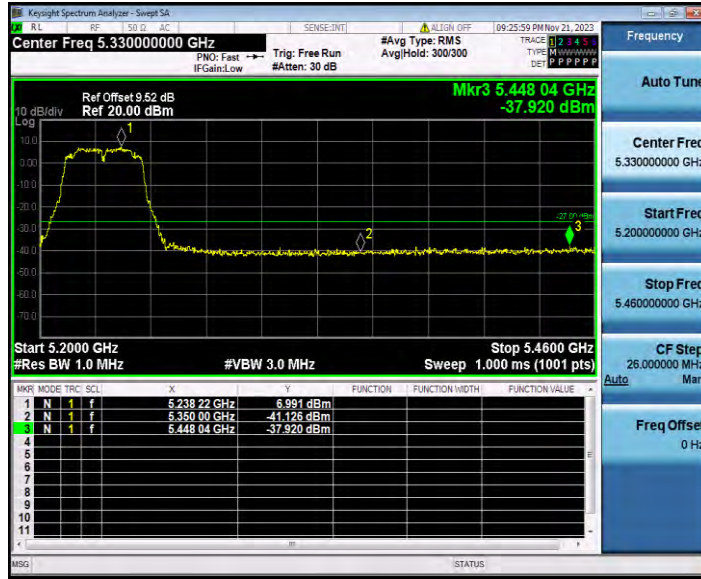
11N20SISO_Ant2_Low_5180



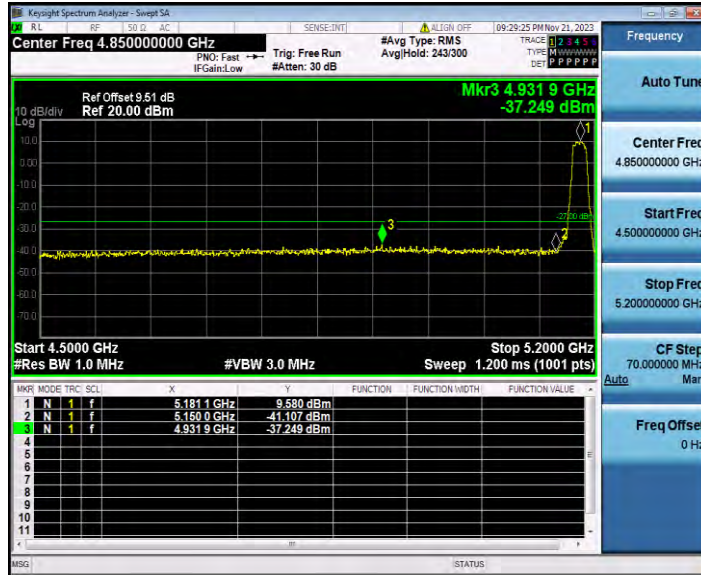
11N20SISO_Ant2_High_5240



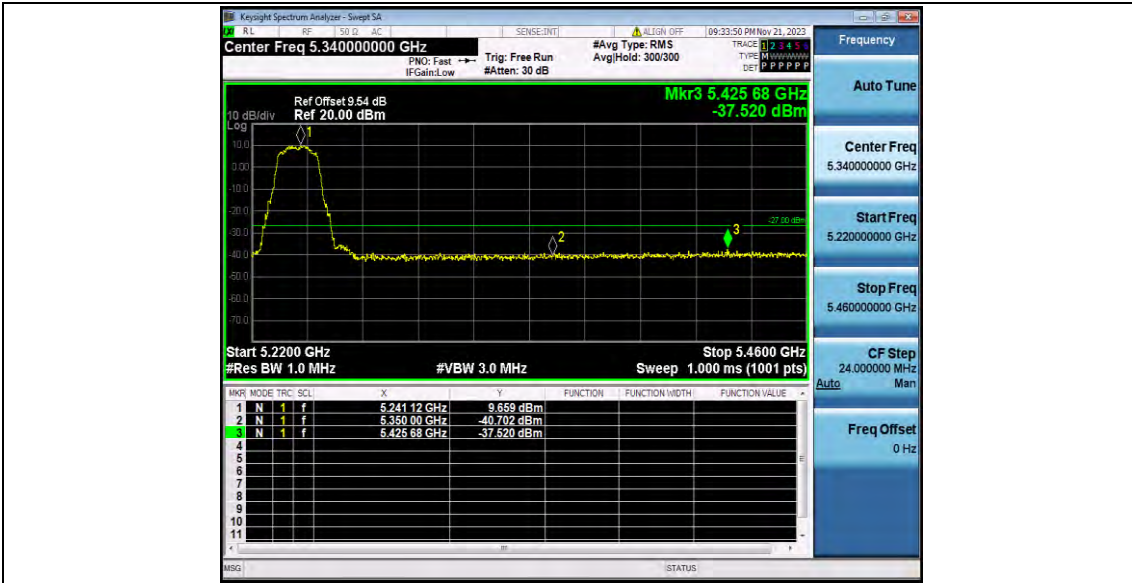
11N40SISO_Ant2_Low_5190



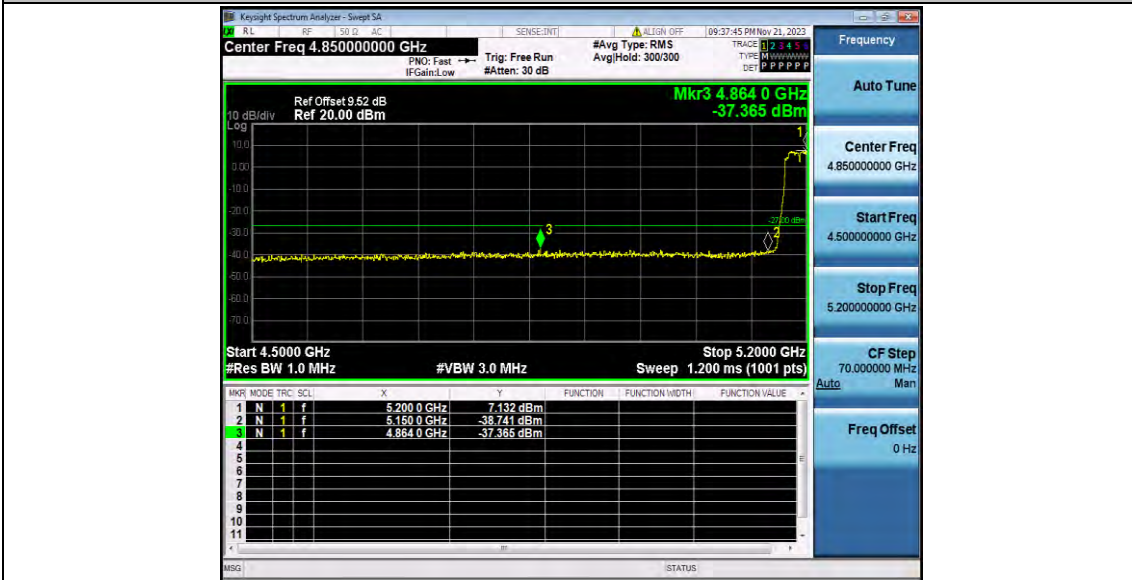
11N40SISO_Ant2_High_5230



11AC20SISO_Ant2_Low_5180



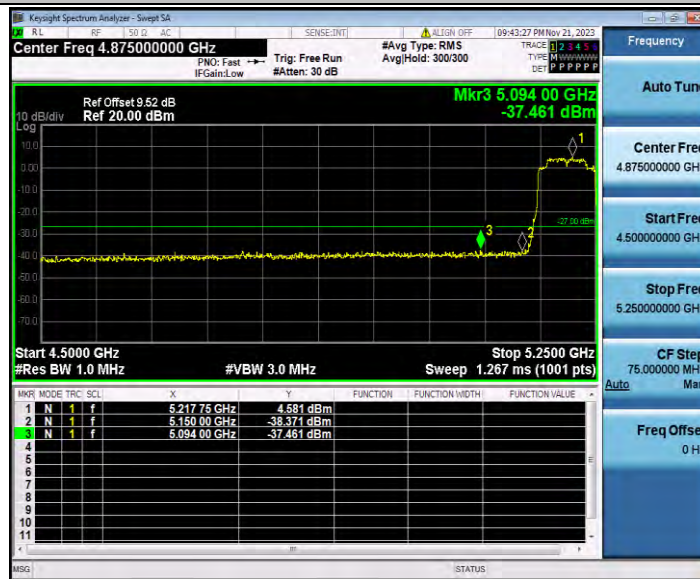
11AC20SISO_Ant2_High_5240



11AC40SISO_Ant2_Low_5190



11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



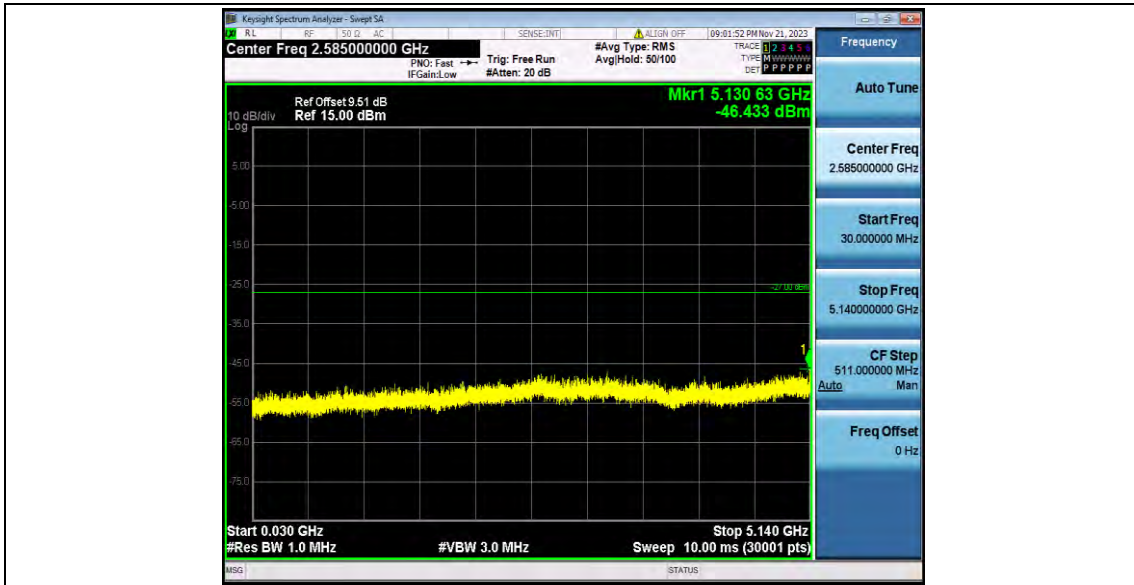
11AC80SISO_Ant2_High_5210

Appendix D.7: Conducted Spurious Emission

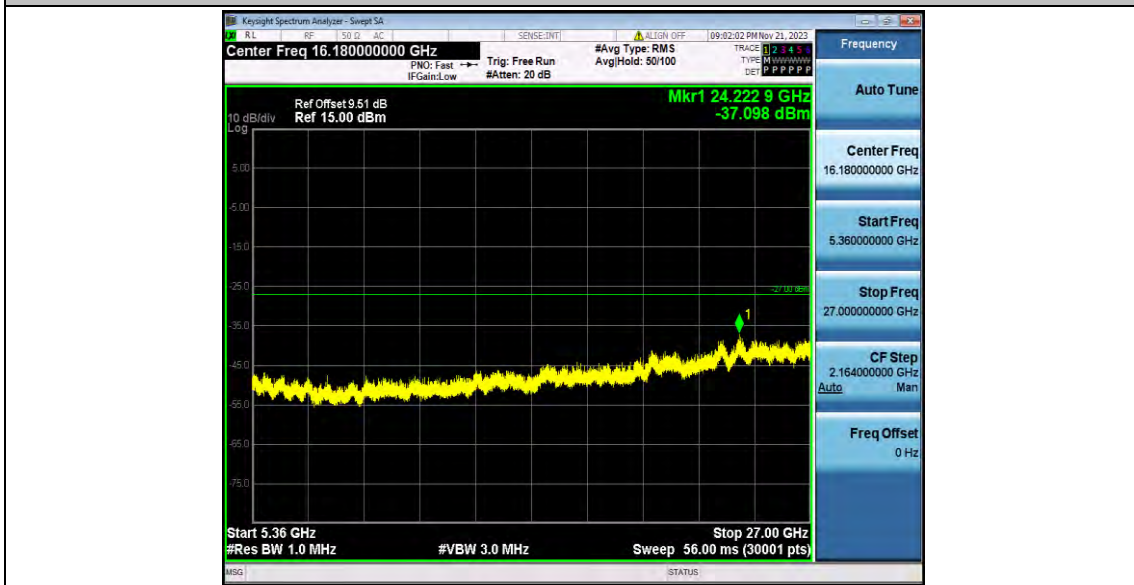
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5130.63	-46.43	≤-27	PASS
			5360~40000	24222.87	-37.1	≤-27	PASS
		5200	30~5140	4975.29	-47.33	≤-27	PASS
			5360~40000	24273.36	-37.64	≤-27	PASS
		5240	30~5140	5069.65	-46.83	≤-27	PASS
			5360~40000	24892.99	-37.35	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5138.81	-46.01	≤-27	PASS
			5360~40000	26671.07	-38.08	≤-27	PASS
		5200	30~5140	4891.14	-46.5	≤-27	PASS
			5360~40000	24785.51	-37.73	≤-27	PASS
		5240	30~5140	2697.42	-47.09	≤-27	PASS
			5360~40000	26553.49	-37.67	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5121.77	-41.86	≤-27	PASS
			5360~40000	26499.39	-38.24	≤-27	PASS
		5230	30~5140	4887.57	-46.64	≤-27	PASS
			5360~40000	24201.23	-37.71	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	1736.91	-44.81	≤-27	PASS
			5360~40000	23643.64	-38.02	≤-27	PASS
		5200	30~5140	1737.08	-46.39	≤-27	PASS
			5360~40000	26590.28	-38.03	≤-27	PASS
		5240	30~5140	4902.39	-47.09	≤-27	PASS
			5360~40000	26831.93	-38.07	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5140	-42.14	≤-27	PASS
			5360~40000	26930.03	-38.1	≤-27	PASS
		5230	30~5140	2675.96	-47.49	≤-27	PASS
			5360~40000	24885.77	-37.65	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5076.47	-42.77	≤-27	PASS
			5360~40000	26852.13	-37.66	≤-27	PASS

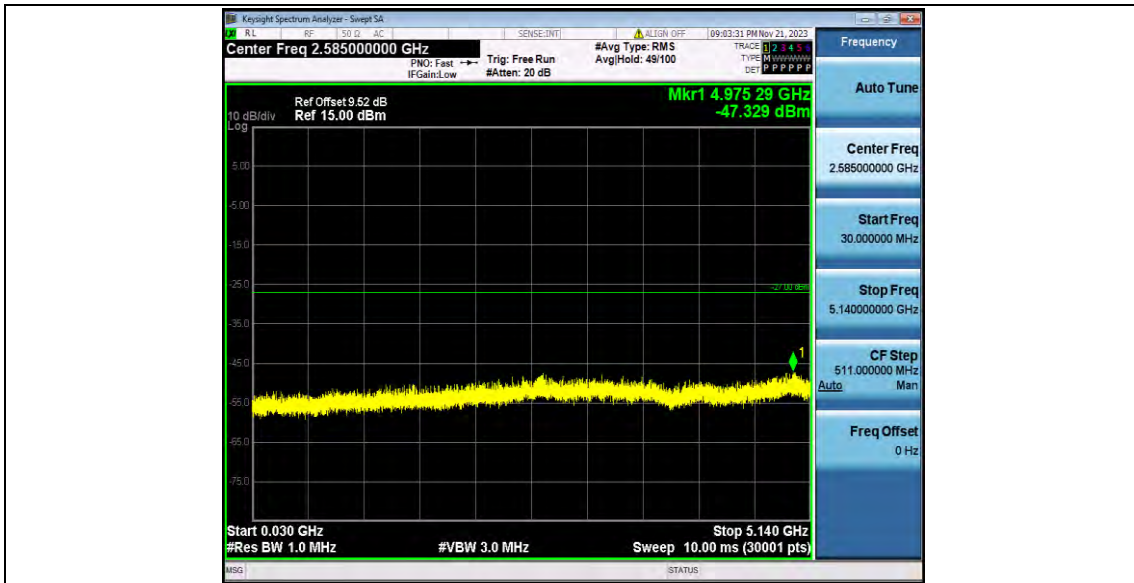
Test Graphs



11A_Ant2_5180_30~5140



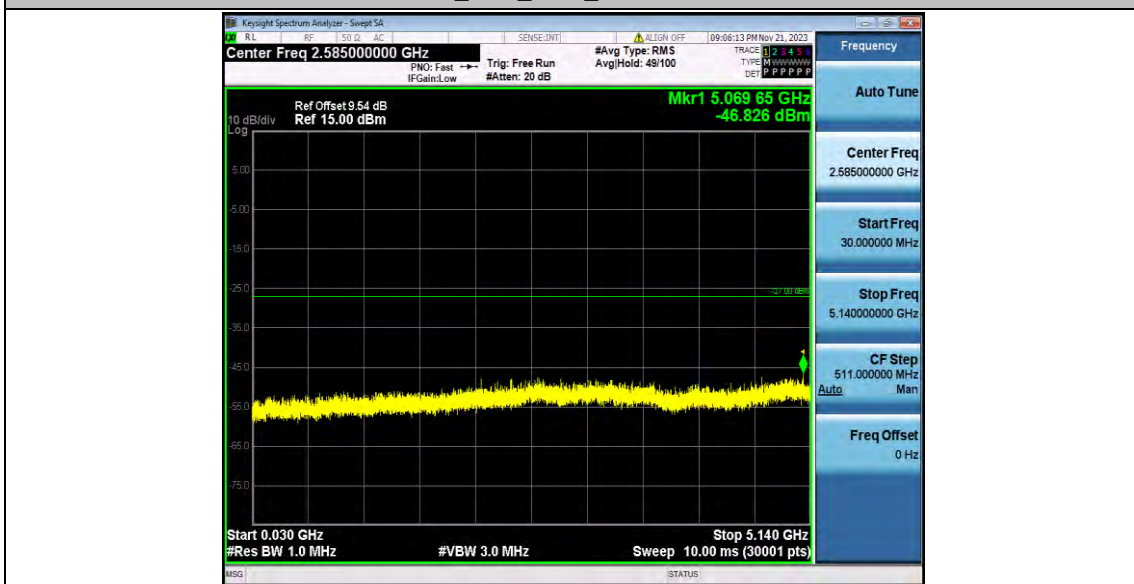
11A_Ant2_5180_5360~40000



11A_Ant2_5200_30~5140



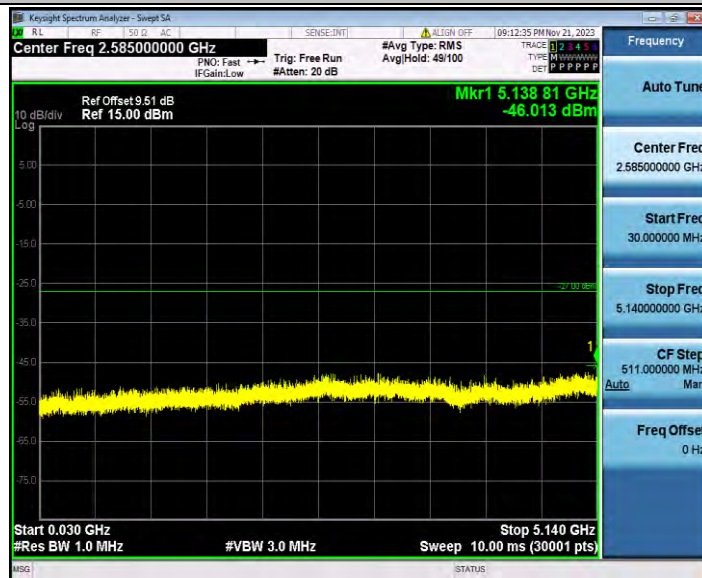
11A_Ant2_5200_5360~40000



11A_Ant2_5240_30~5140



11A_Ant2_5240_5360~40000



11N20SISO_Ant2_5180_30~5140



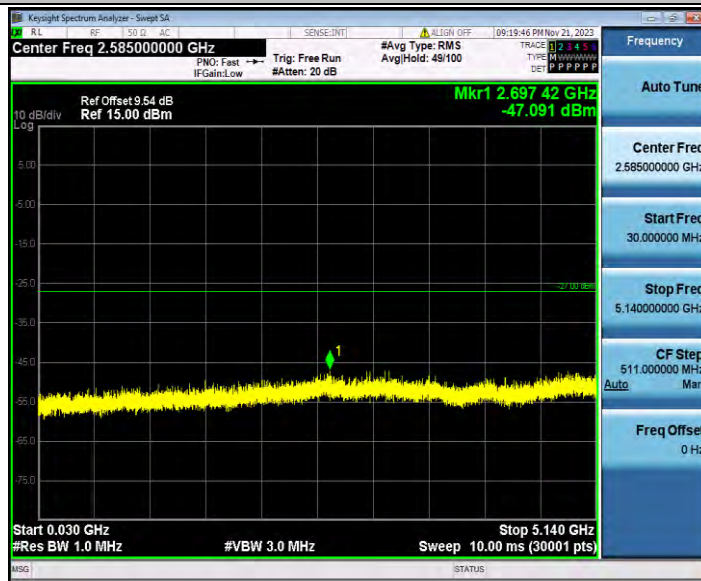
11N20SISO_Ant2_5180_5360~40000



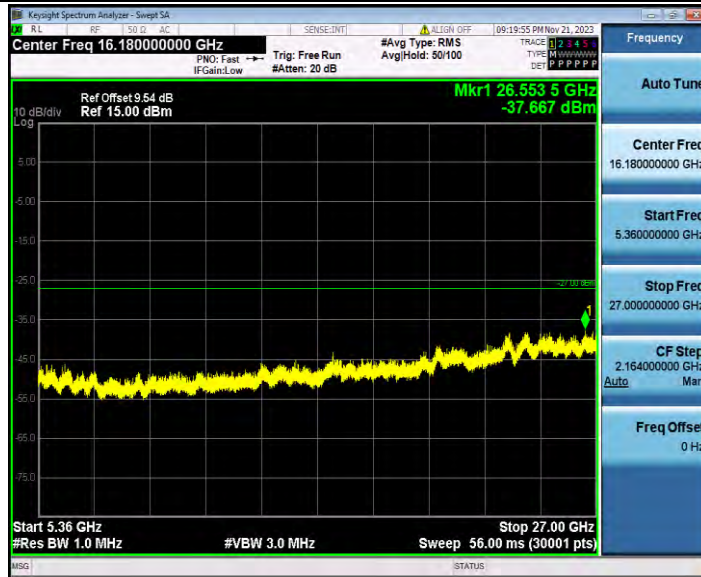
11N20SISO_Ant2_5200_30~5140



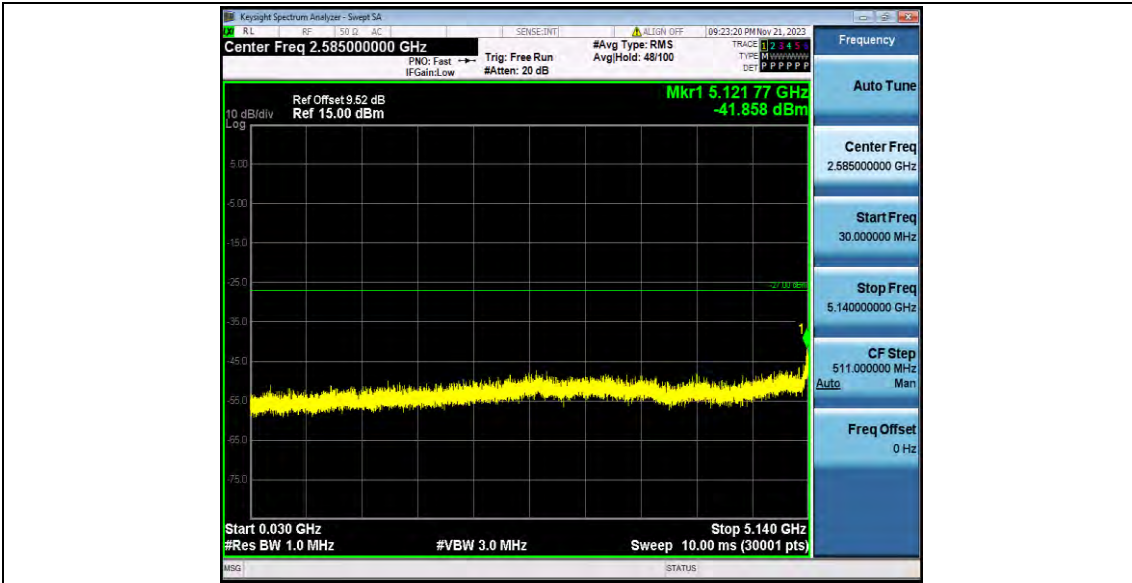
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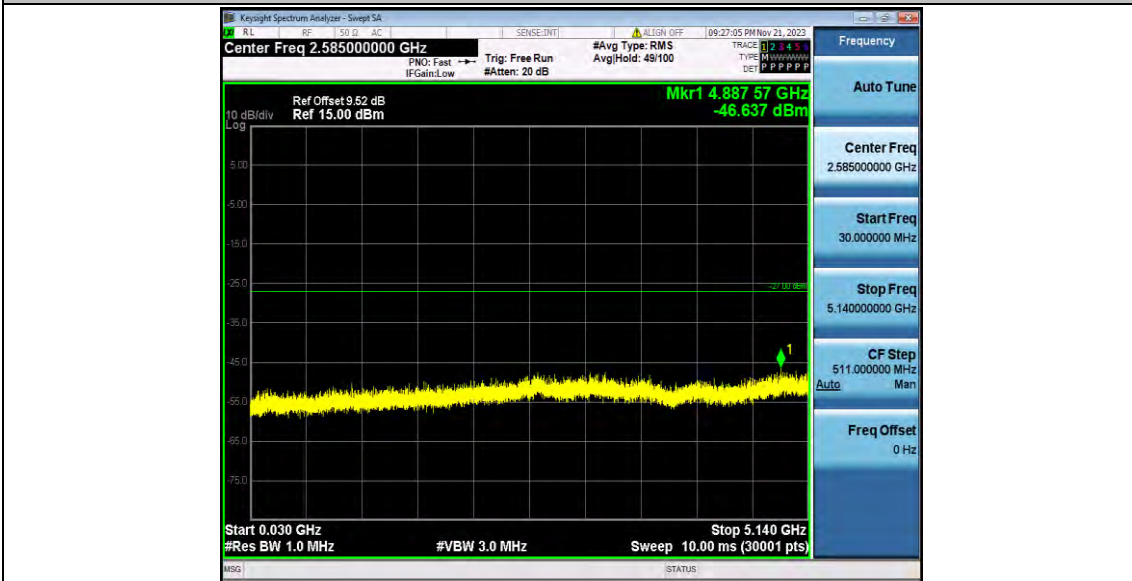
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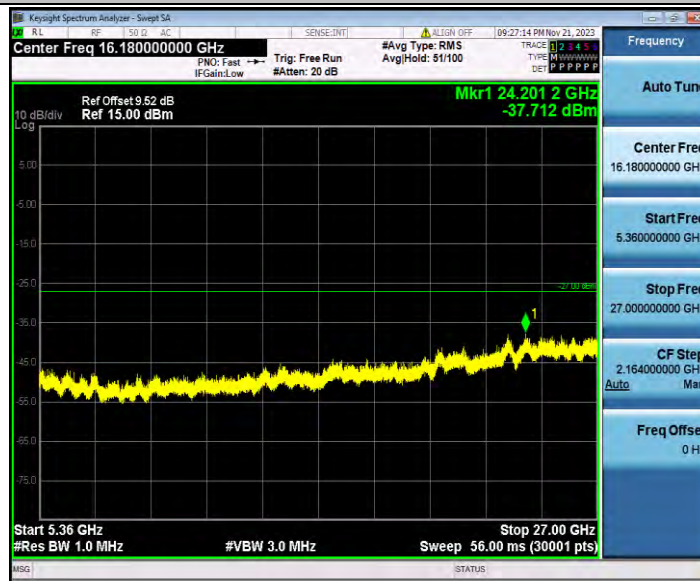
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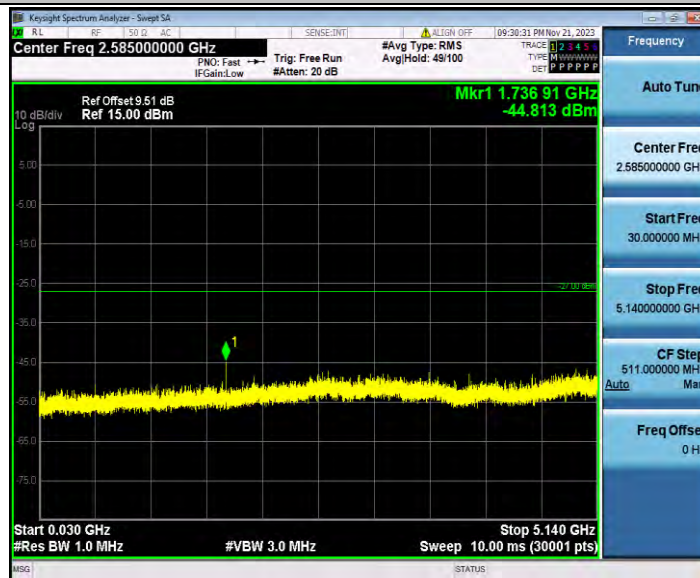
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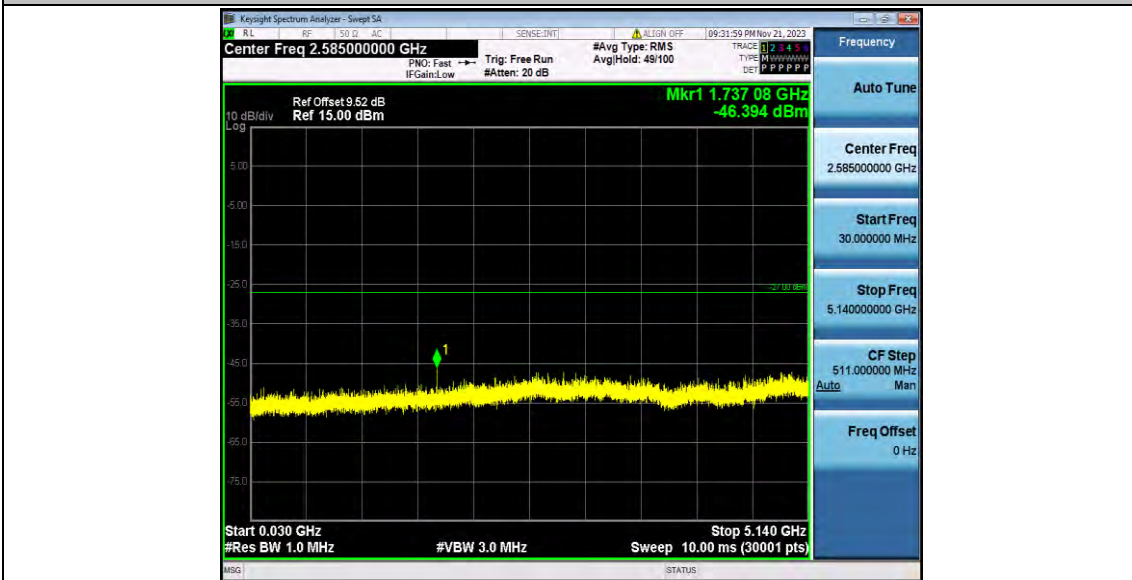
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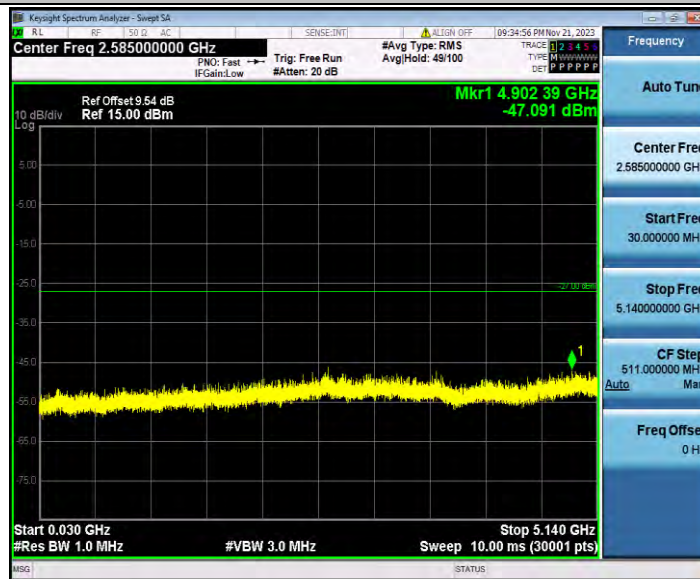
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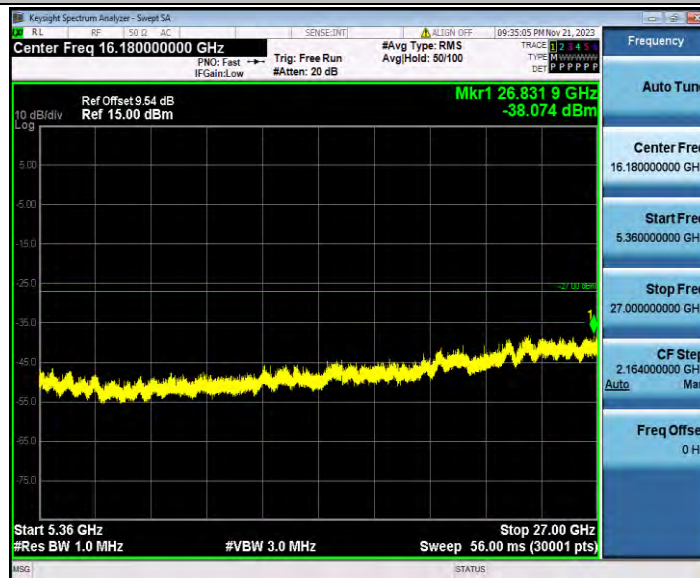
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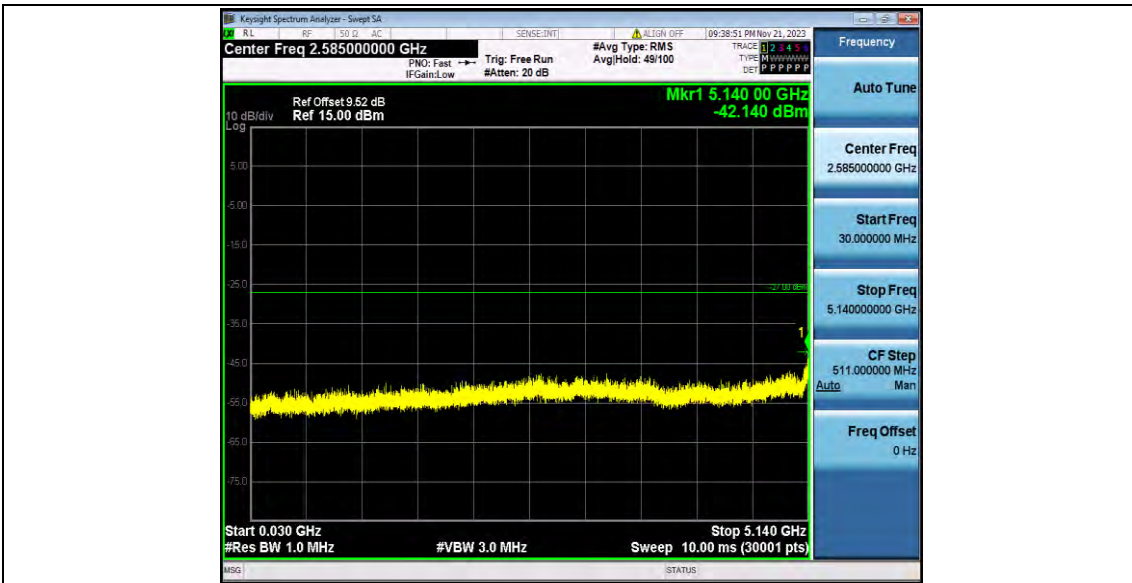
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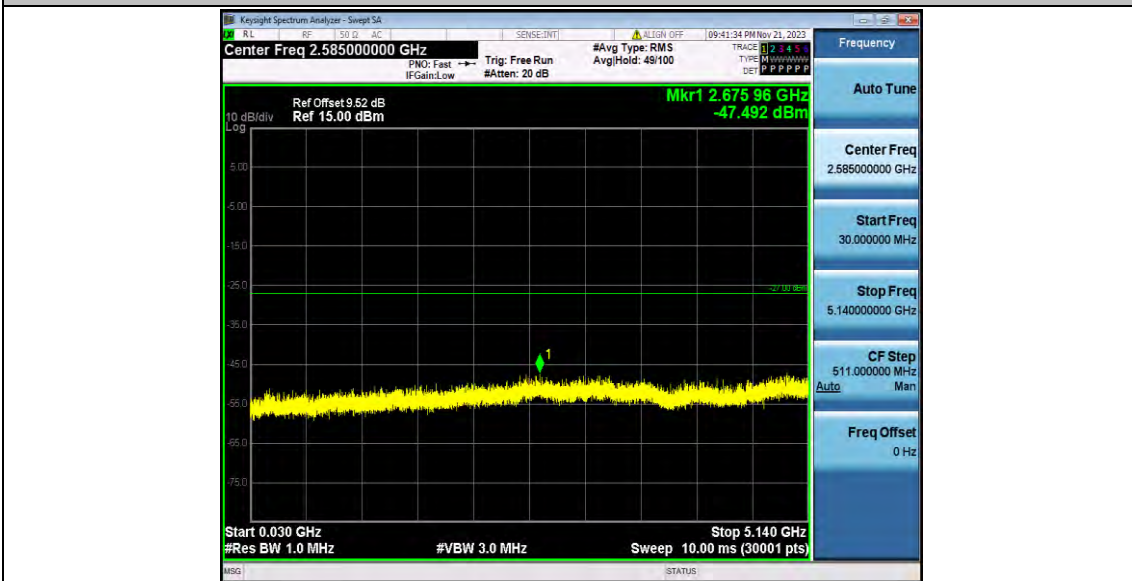
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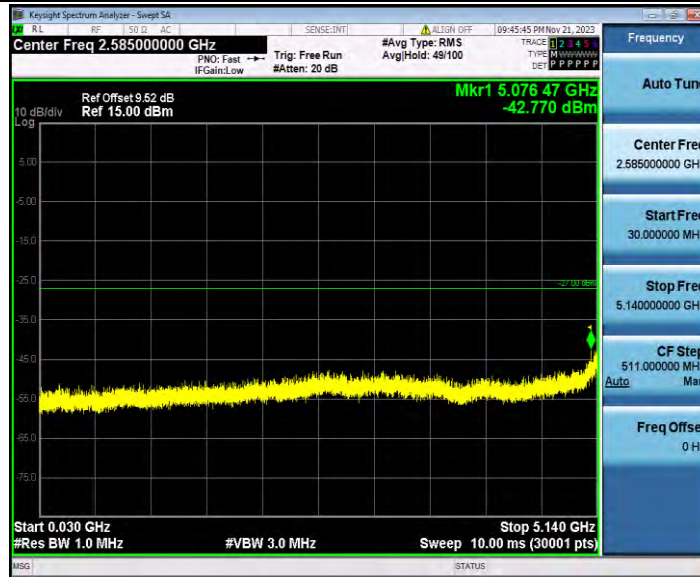
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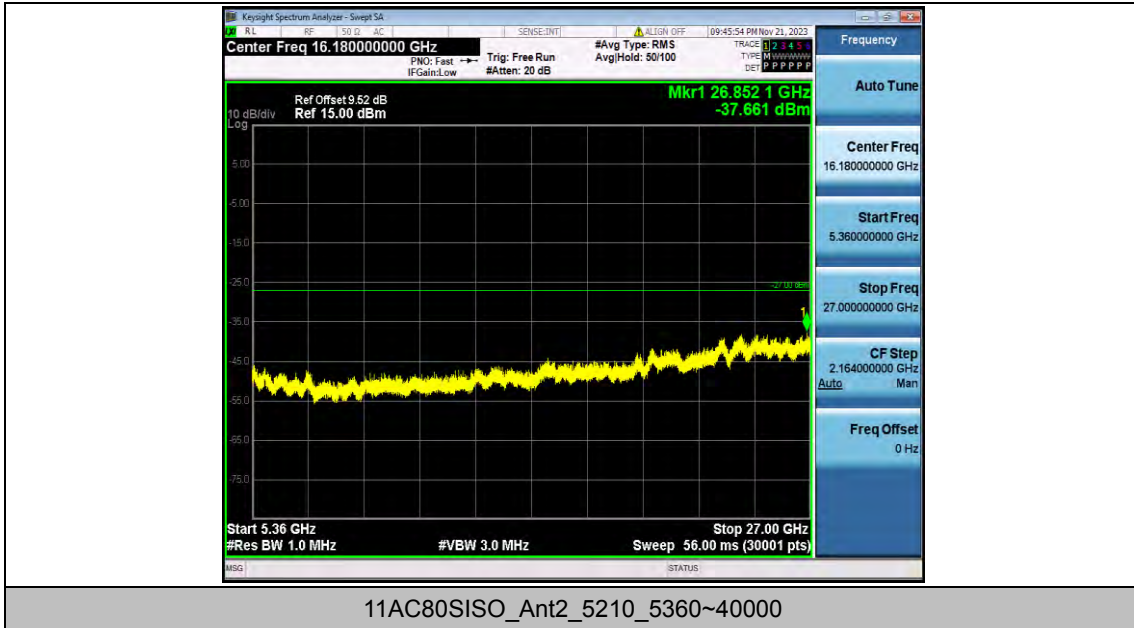
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11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140



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