

<b>Case No. :</b> <u>GTS20230629015-1-13</u>
<b>Ambient Condition:</b> <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.7.14</u> <b>Test Engineer:</b> <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	Ant1	5180	19.800	5170.720	5190.520	---	---
		5200	23.400	5189.280	5212.680	---	---
		5240	22.720	5229.240	5251.960	---	---
11N20SISO	Ant1	5180	19.480	5170.400	5189.880	---	---
		5200	22.280	5190.080	5212.360	---	---
		5240	20.480	5230.000	5250.480	---	---
11N40SISO	Ant1	5190	42.240	5169.760	5212.000	---	---
		5230	42.960	5209.600	5252.560	---	---
11AC20SISO	Ant1	5180	21.960	5170.080	5192.040	---	---
		5200	23.840	5190.040	5213.880	---	---
		5240	20.600	5229.960	5250.560	---	---
11AC40SISO	Ant1	5190	42.320	5169.760	5212.080	---	---
		5230	42.960	5209.760	5252.720	---	---
11AC80SISO	Ant1	5210	81.120	5169.680	5250.800	---	---

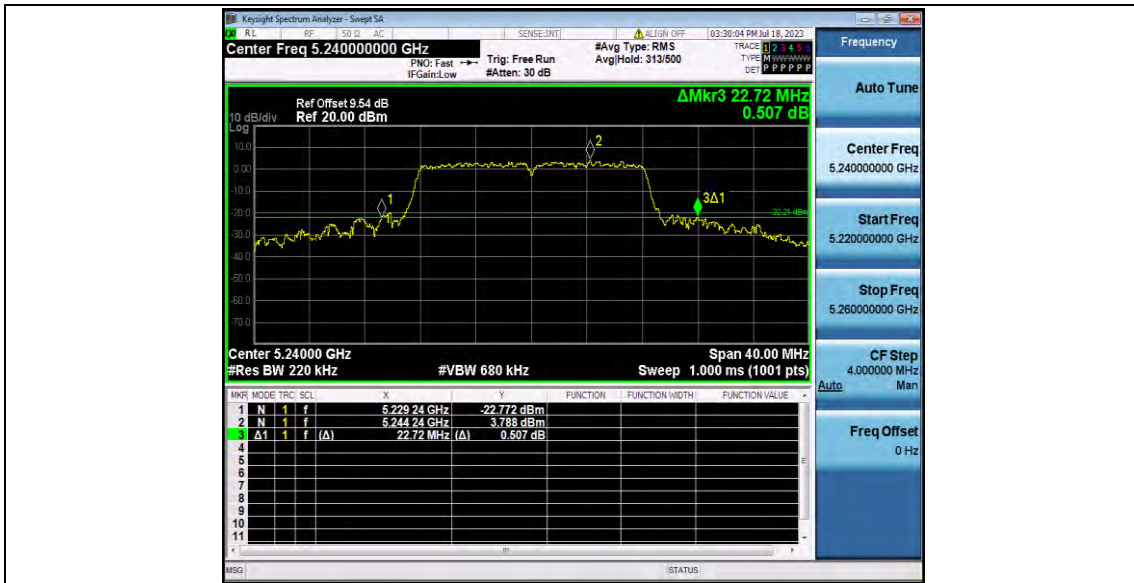
## Test Graphs



11A\_Ant1\_5180



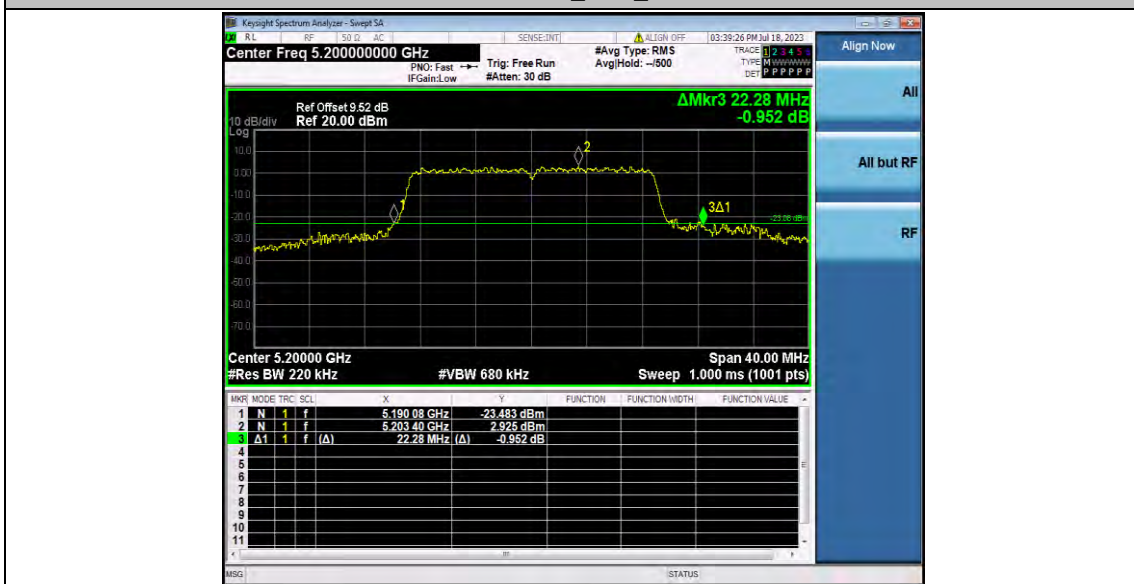
11A\_Ant1\_5200



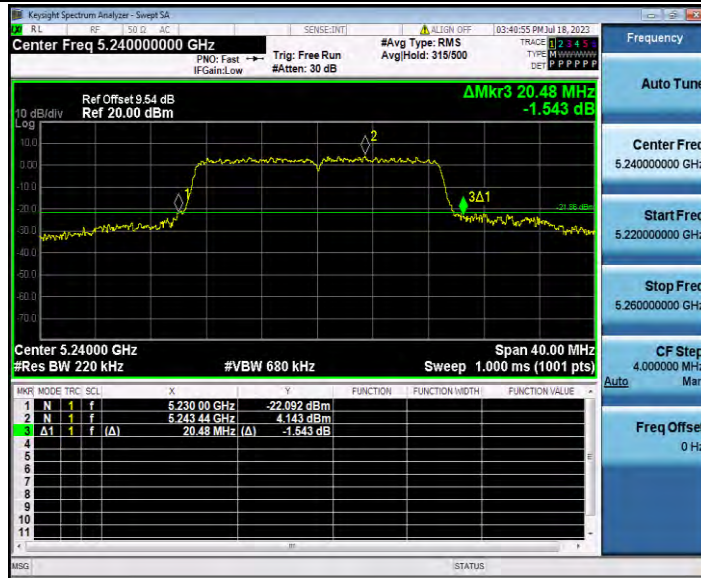
11A\_Ant1\_5240



11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



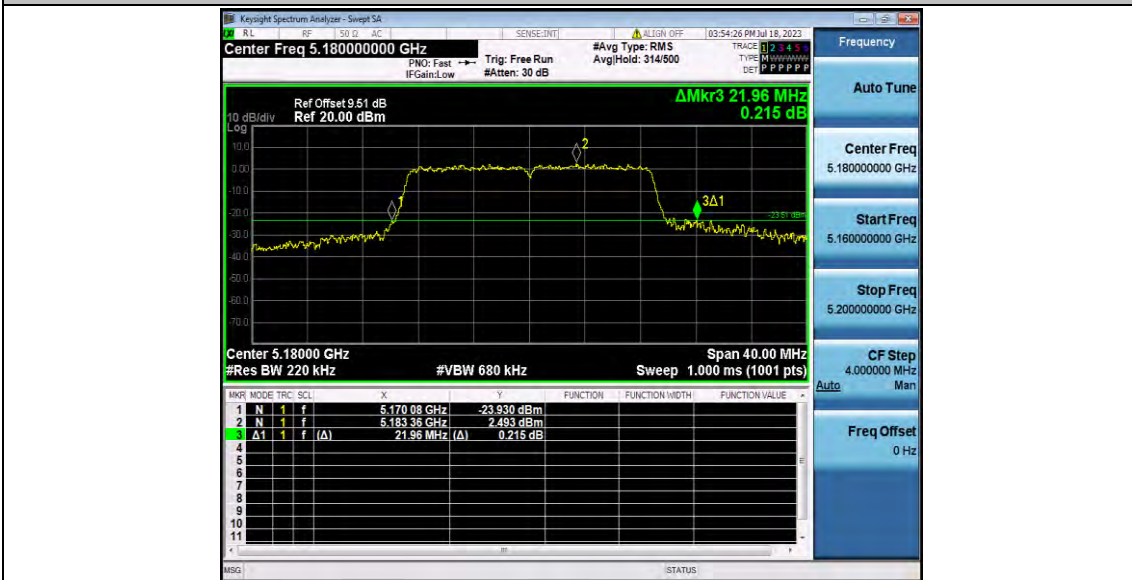
11N20SISO\_Ant1\_5240



11N40SISO\_Ant1\_5190



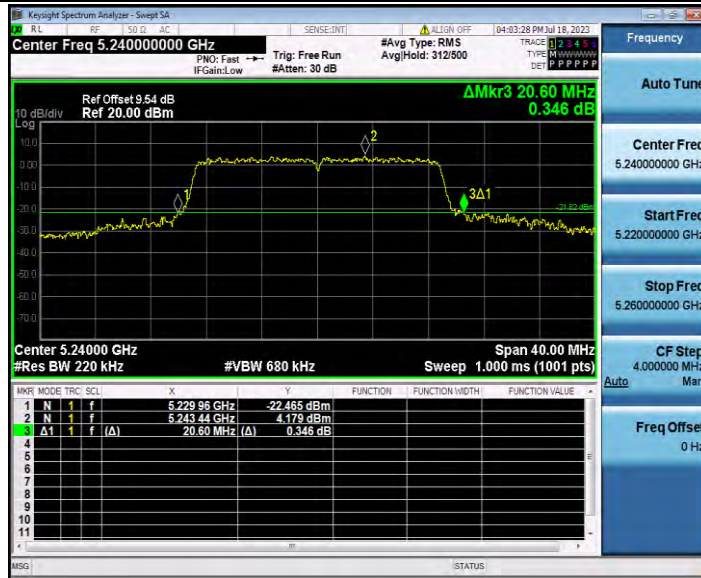
11N40SISO\_Ant1\_5230



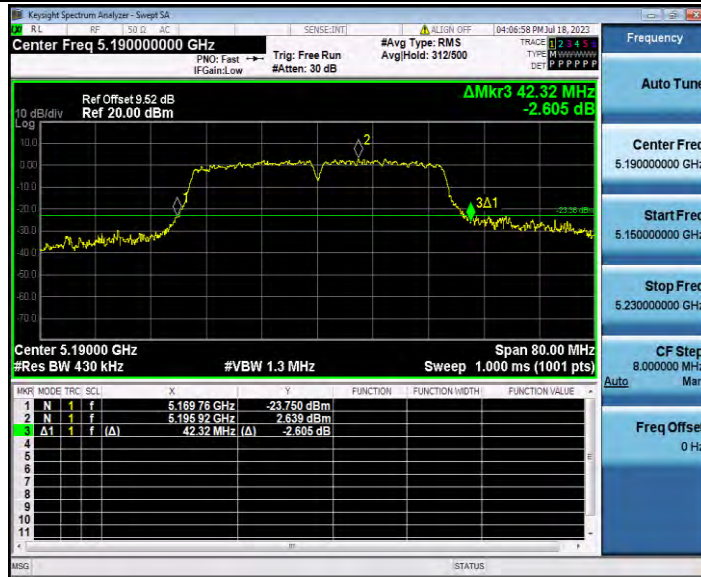
11AC20SISO\_Ant1\_5180



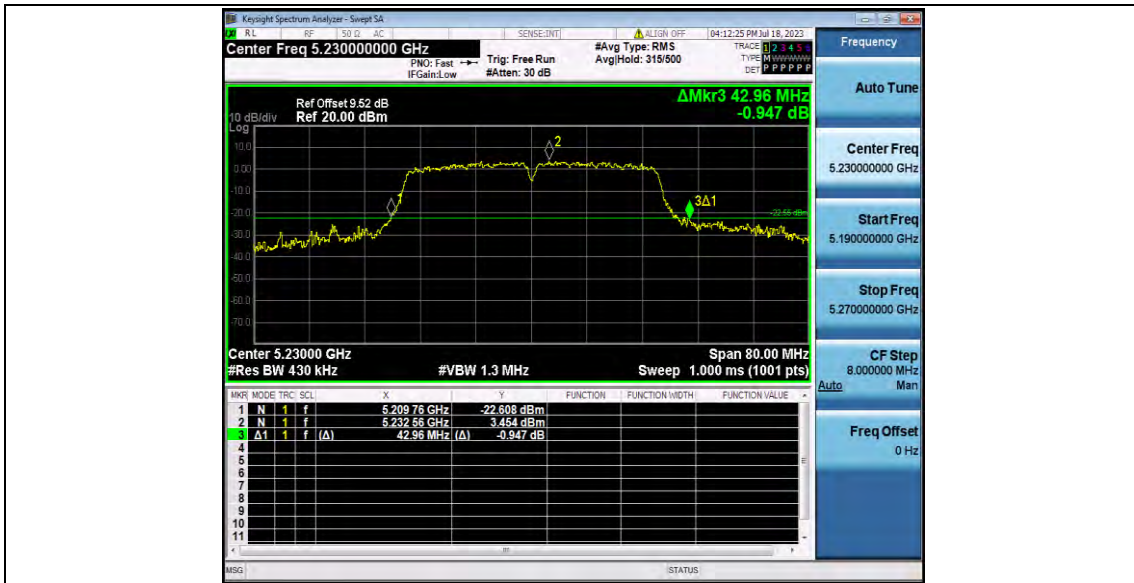
11AC20SISO\_Ant1\_5200



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	16.600	5171.771	5188.371	---	---
		5200	16.692	5191.739	5208.431	---	---
		5240	16.652	5231.726	5248.378	---	---
11N20SISO	Ant1	5180	17.663	5171.260	5188.923	---	---
		5200	17.710	5191.252	5208.962	---	---
		5240	17.716	5231.221	5248.937	---	---
11N40SISO	Ant1	5190	36.455	5172.088	5208.543	---	---
		5230	36.484	5212.001	5248.485	---	---
11AC20SISO	Ant1	5180	17.691	5171.243	5188.934	---	---
		5200	17.718	5191.247	5208.965	---	---
		5240	17.708	5231.224	5248.932	---	---
11AC40SISO	Ant1	5190	36.450	5172.077	5208.527	---	---
		5230	36.450	5212.018	5248.468	---	---
11AC80SISO	Ant1	5210	74.329	5173.393	5247.722	---	---



## Test Graphs



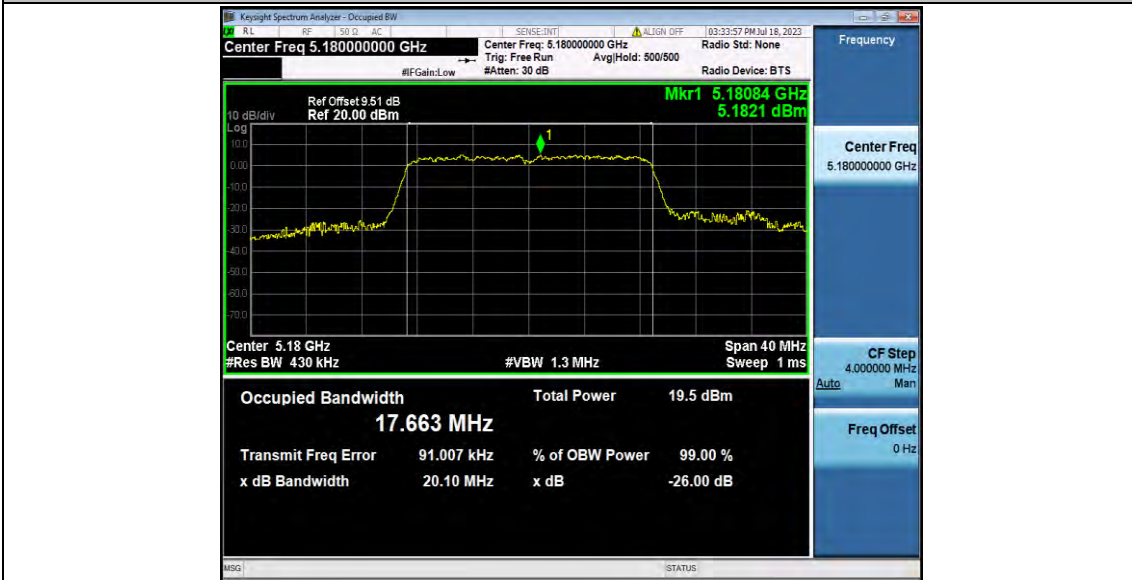
11A\_Ant1\_5180



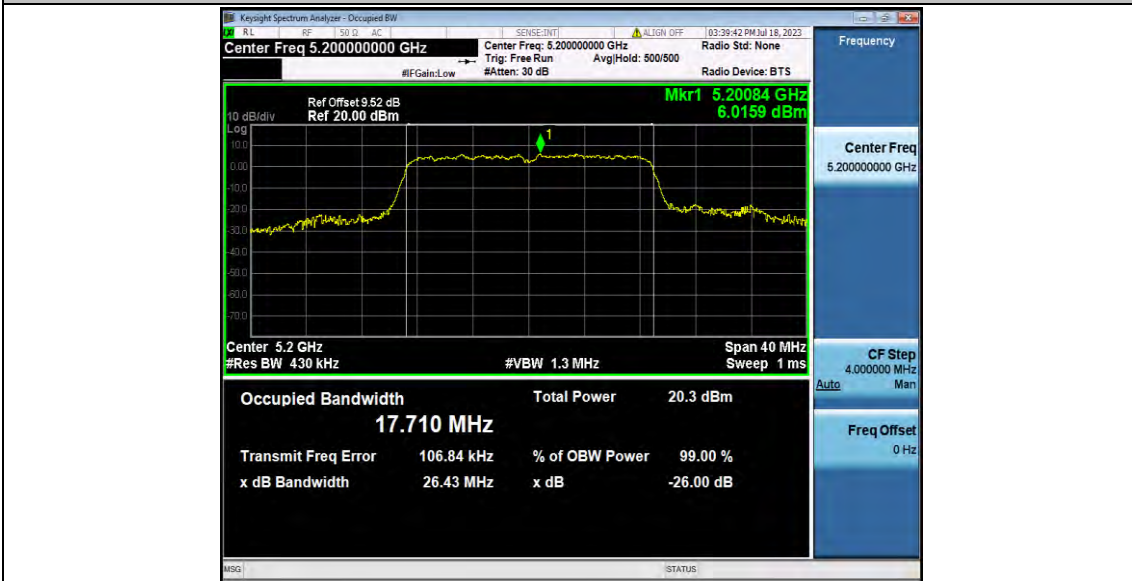
11A\_Ant1\_5200



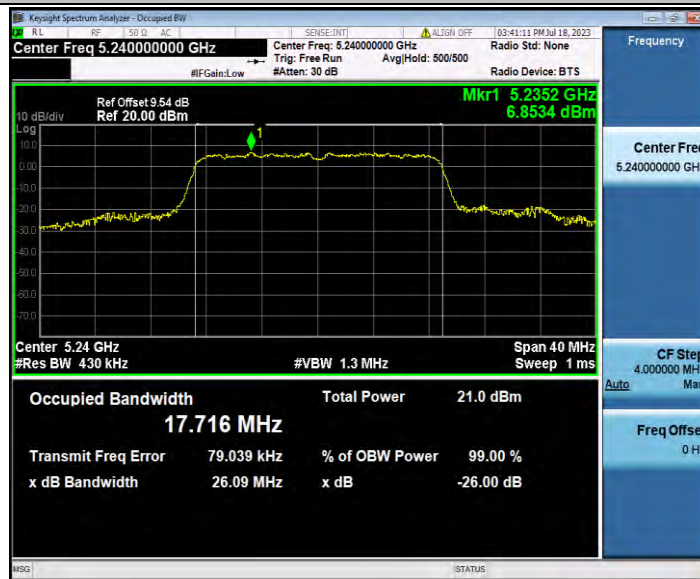
11A\_Ant1\_5240



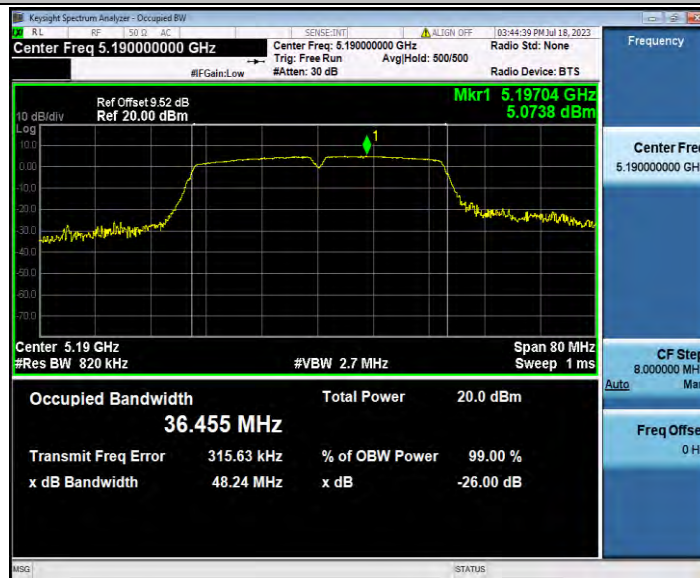
11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240



11N40SISO\_Ant1\_5190



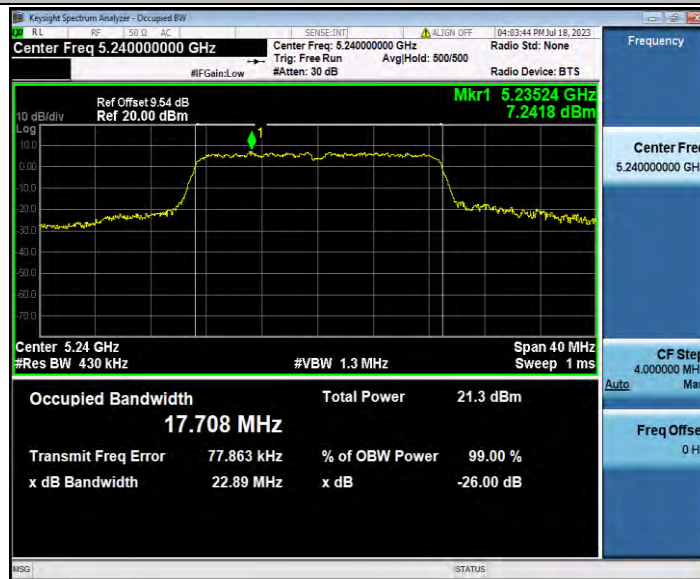
11N40SISO\_Ant1\_5230



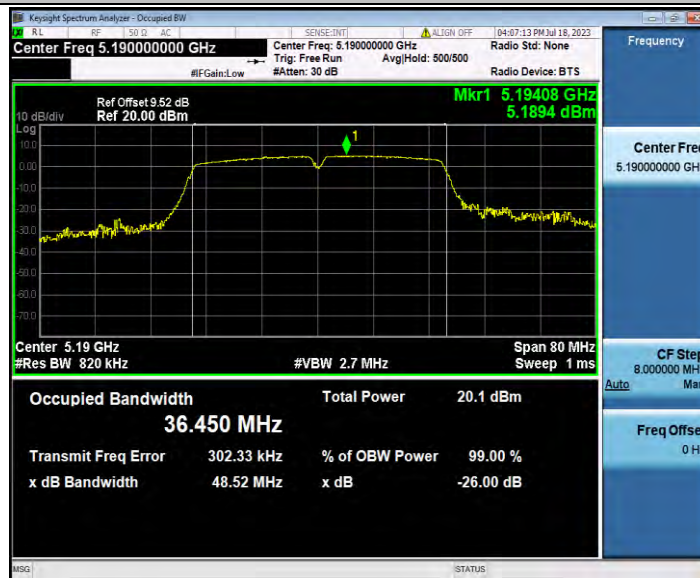
11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



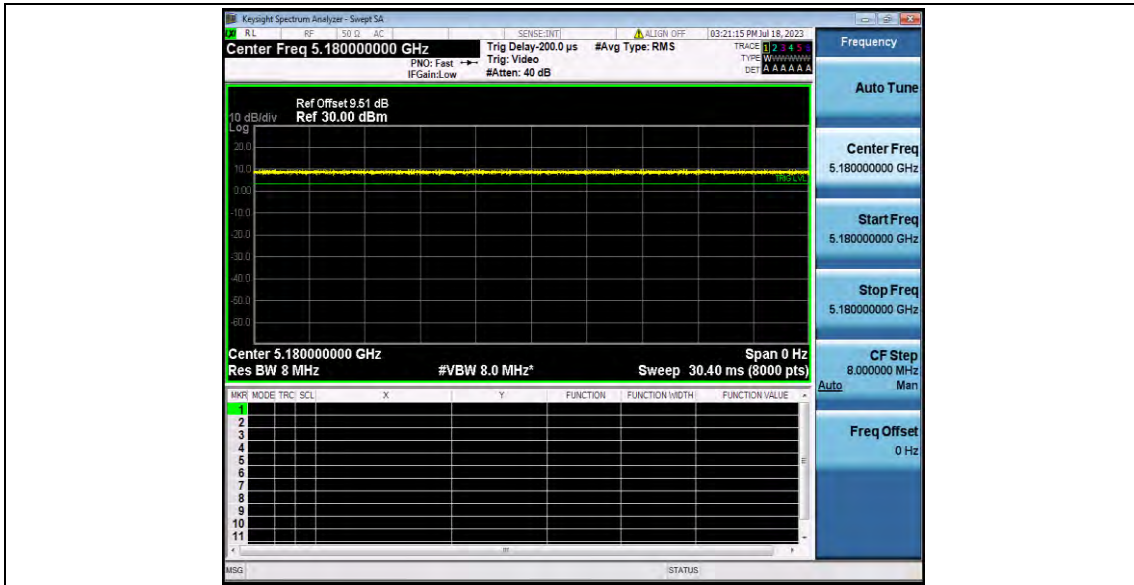
11AC80SISO\_Ant1\_5210

## Appendix D.3: Duty Cycle

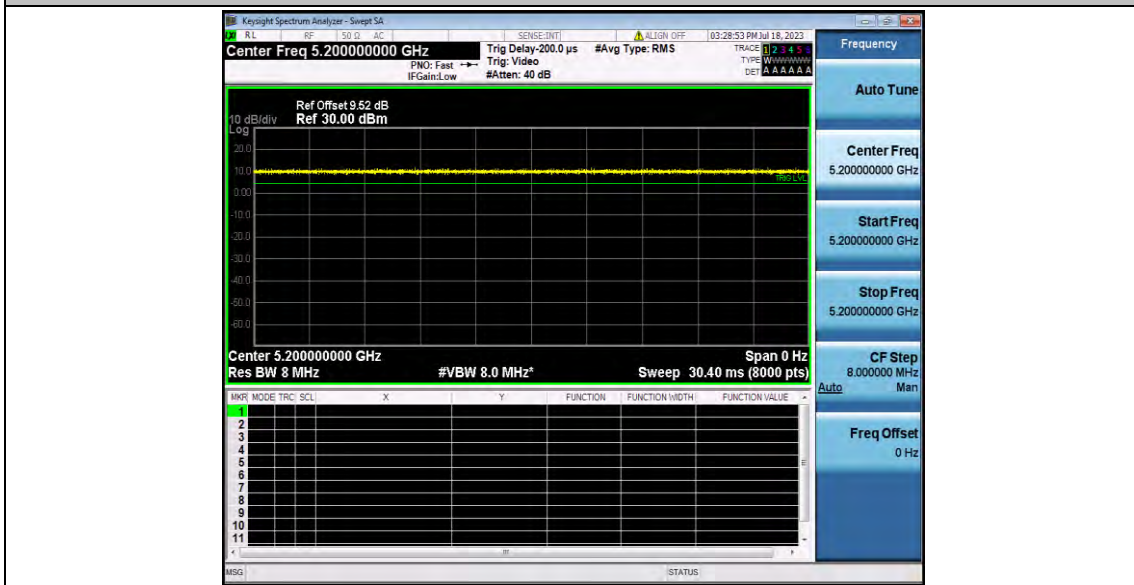
### Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N40SISO	Ant1	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11AC40SISO	Ant1	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC80SISO	Ant1	5210	30.00	30.00	100.00

## Test Graphs

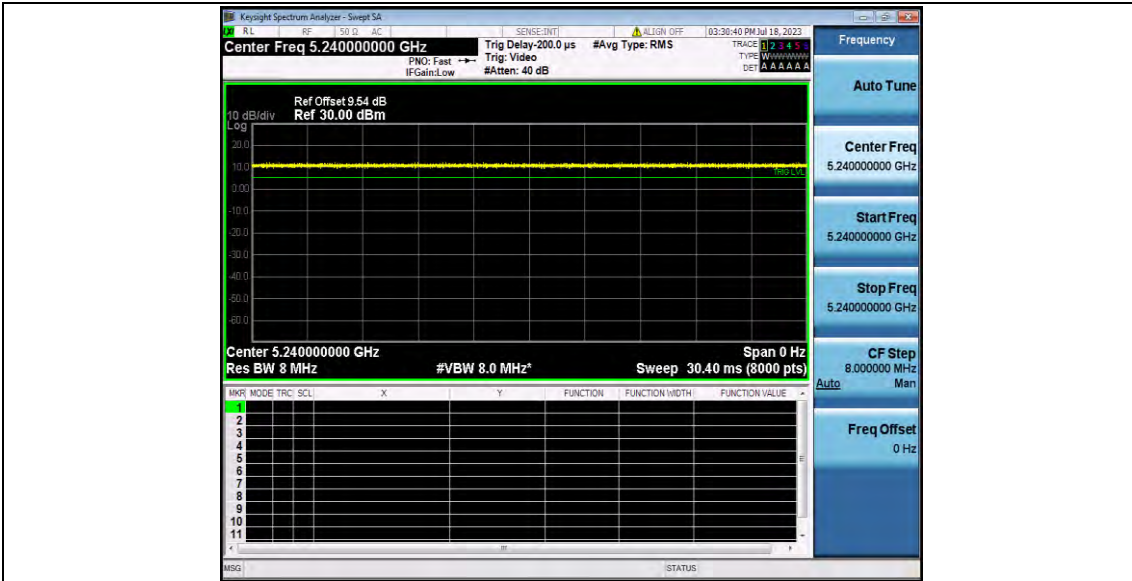


11A\_Ant1\_5180

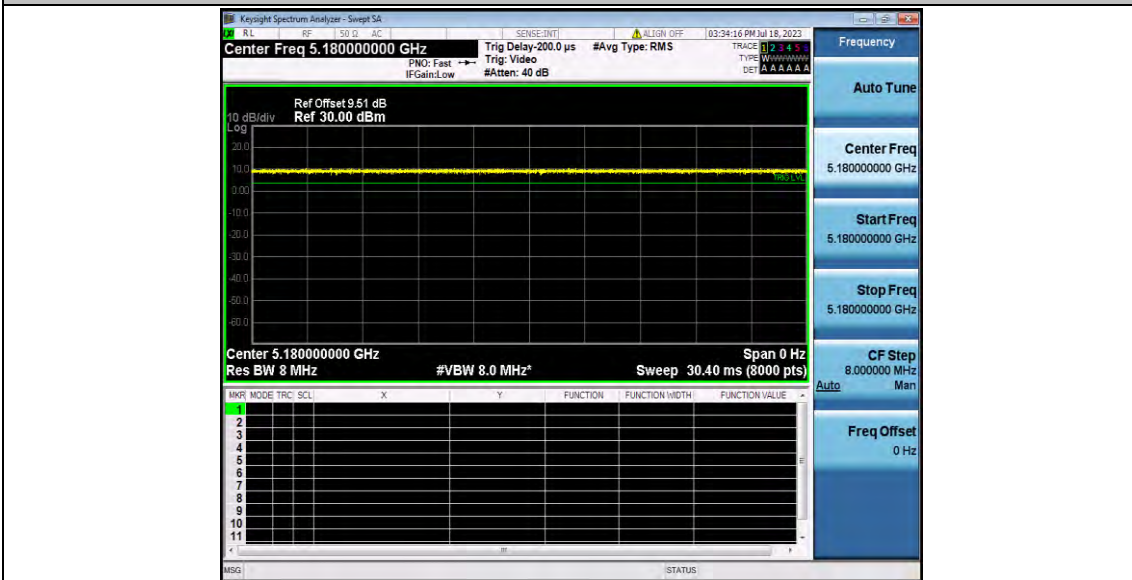


11A\_Ant1\_5200

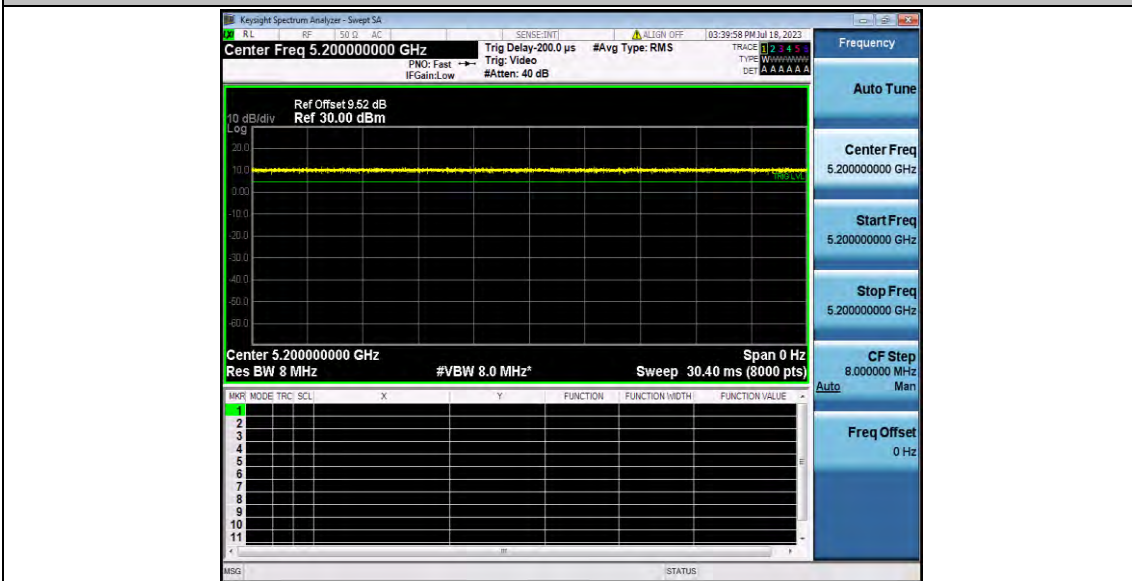




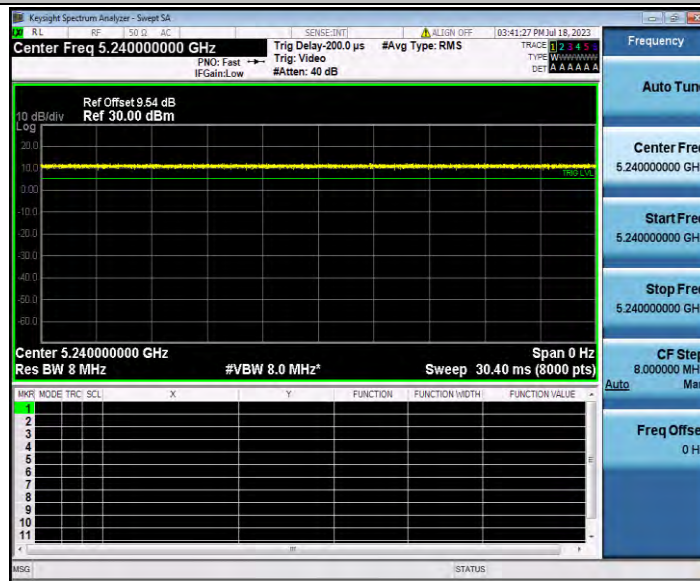
11A\_Ant1\_5240



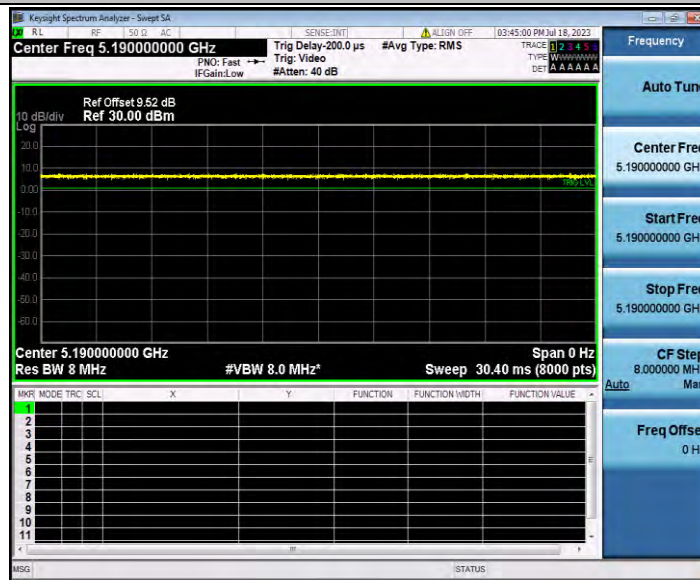
11N20SISO\_Ant1\_5180



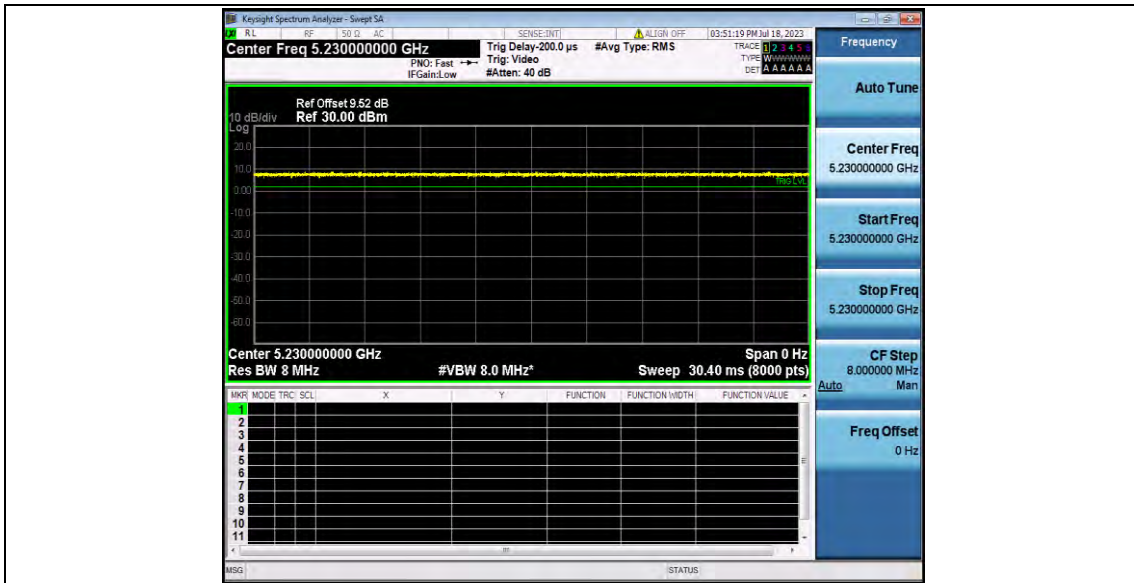
11N20SISO\_Ant1\_5200



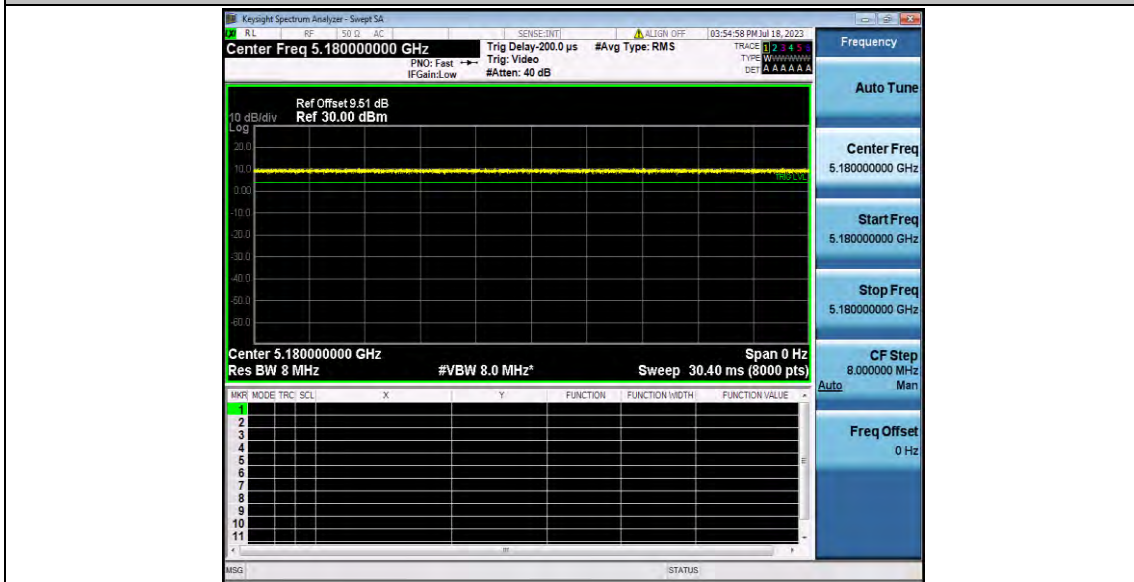
11N20SISO\_Ant1\_5240



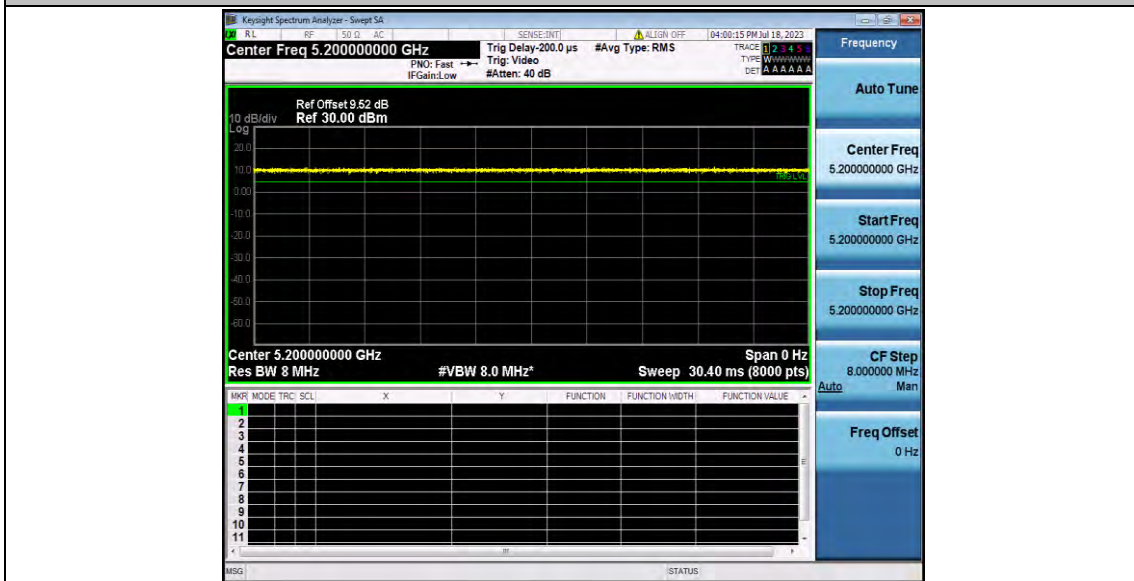
11N40SISO\_Ant1\_5190



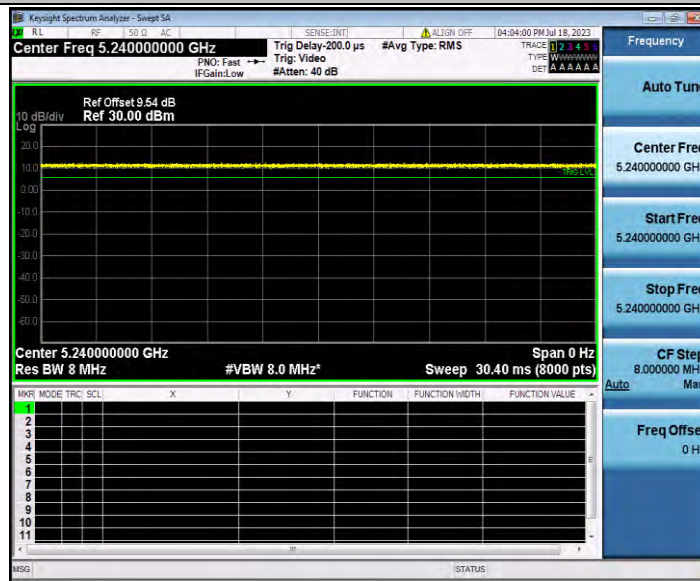
11N40SISO\_Ant1\_5230



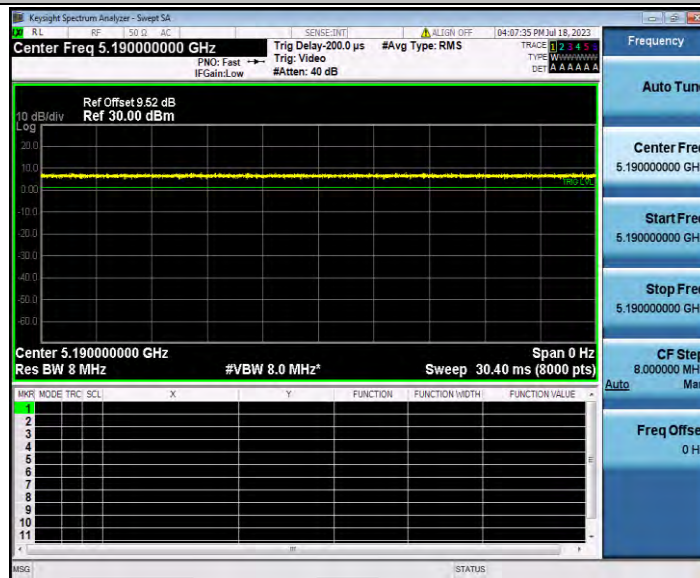
11AC20SISO\_Ant1\_5180



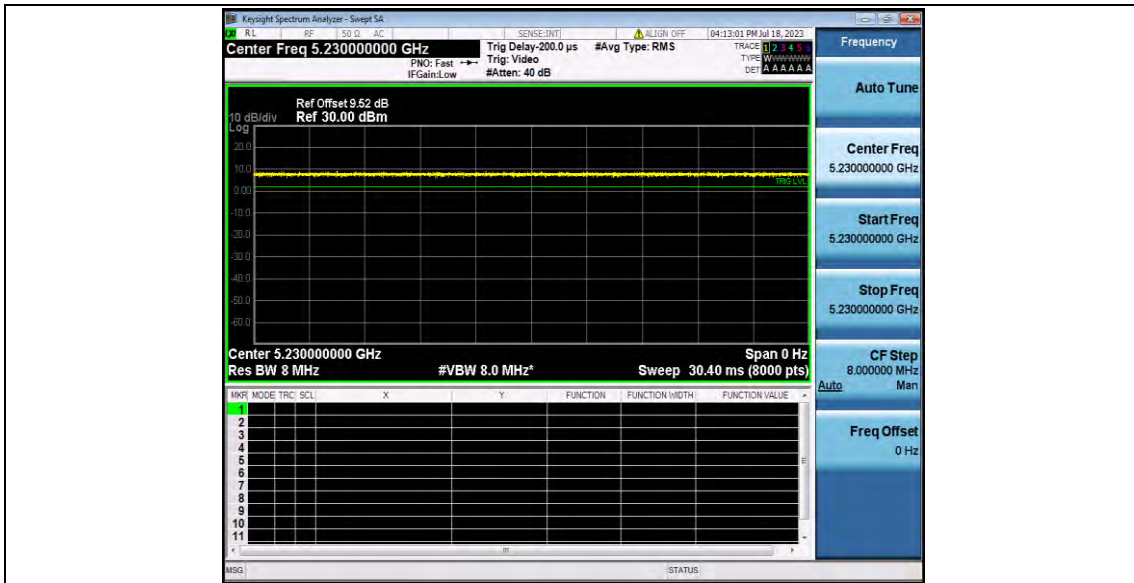
11AC20SISO\_Ant1\_5200



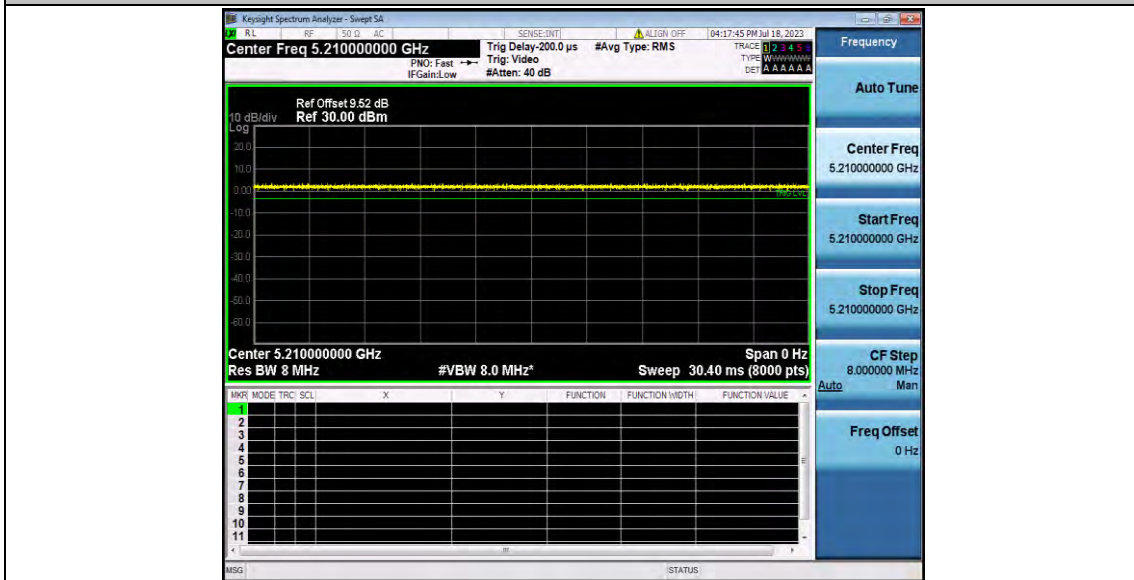
11AC20SISO\_Ant1\_5240



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	12.07	100.00	0.00	12.07	≤23.98	PASS
		5200	13.17	100.00	0.00	13.17	≤23.98	PASS
		5240	14.11	100.00	0.00	14.11	≤23.98	PASS
11N20SISO	Ant1	5180	12.84	100.00	0.00	12.84	≤23.98	PASS
		5200	13.59	100.00	0.00	13.59	≤23.98	PASS
		5240	14.43	100.00	0.00	14.43	≤23.98	PASS
11N40SISO	Ant1	5190	12.76	100.00	0.00	12.76	≤23.98	PASS
		5230	13.86	100.00	0.00	13.86	≤23.98	PASS
11AC20SISO	Ant1	5180	12.76	100.00	0.00	12.76	≤23.98	PASS
		5200	13.58	100.00	0.00	13.58	≤23.98	PASS
		5240	14.66	100.00	0.00	14.66	≤23.98	PASS
11AC40SISO	Ant1	5190	12.97	100.00	0.00	12.97	≤23.98	PASS
		5230	13.95	100.00	0.00	13.95	≤23.98	PASS
11AC80SISO	Ant1	5210	11.78	100.00	0.00	11.78	≤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	0.29	≤11.00	PASS
		5200	1.45	≤11.00	PASS
		5240	2.37	≤11.00	PASS
11N20SISO	Ant1	5180	0.85	≤11.00	PASS
		5200	1.67	≤11.00	PASS
		5240	2.51	≤11.00	PASS
11N40SISO	Ant1	5190	-1.65	≤11.00	PASS
		5230	-0.49	≤11.00	PASS
11AC20SISO	Ant1	5180	0.8	≤11.00	PASS
		5200	1.64	≤11.00	PASS
		5240	2.75	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.44	≤11.00	PASS
		5230	-0.36	≤11.00	PASS
11AC80SISO	Ant1	5210	-5.12	≤11.00	PASS

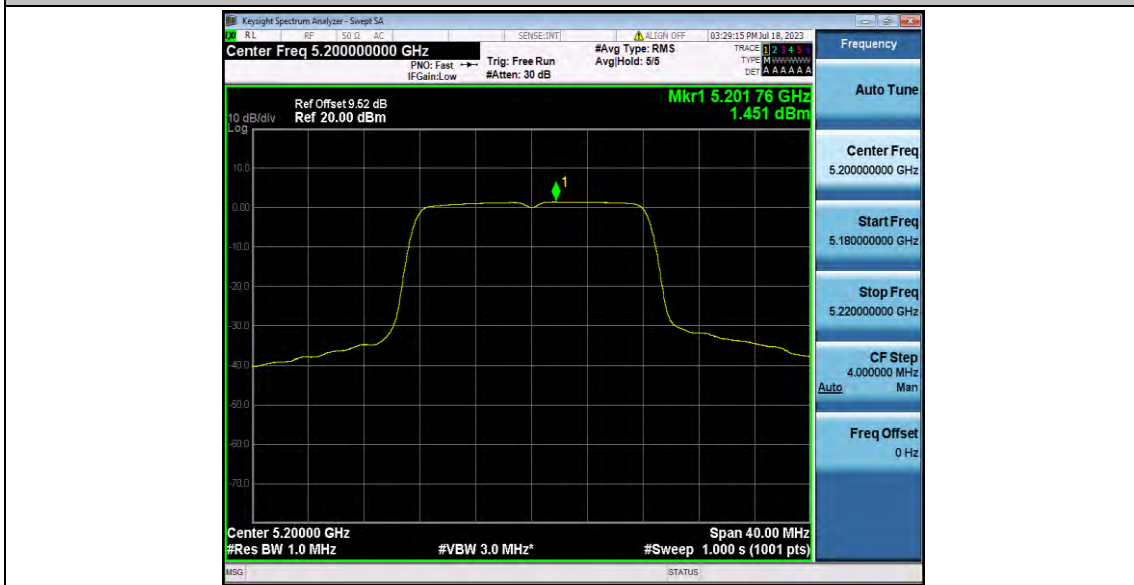
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

## Test Graphs

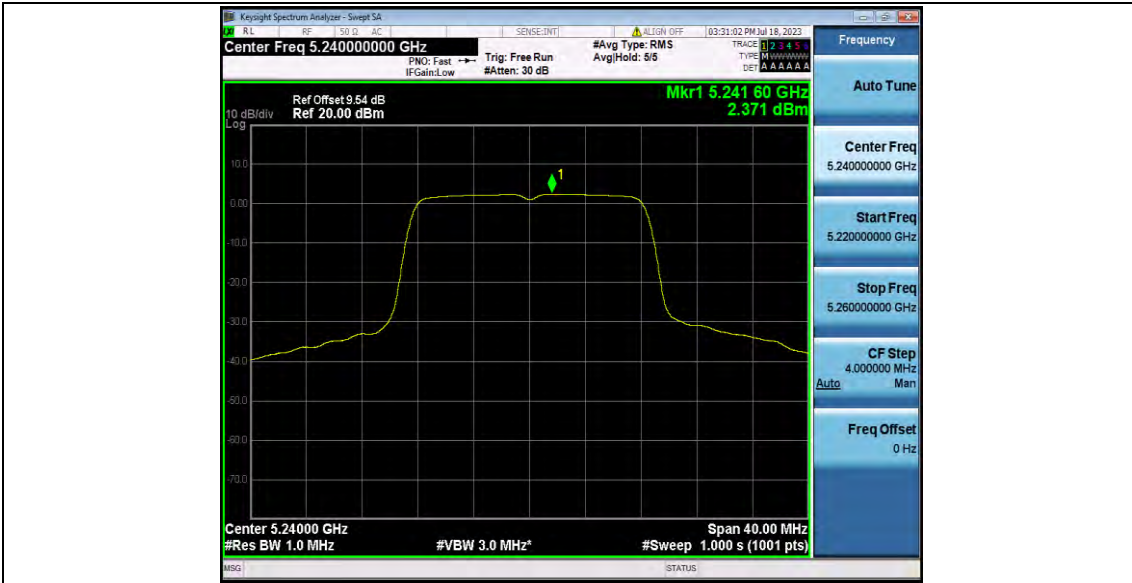


11A\_Ant1\_5180



11A\_Ant1\_5200





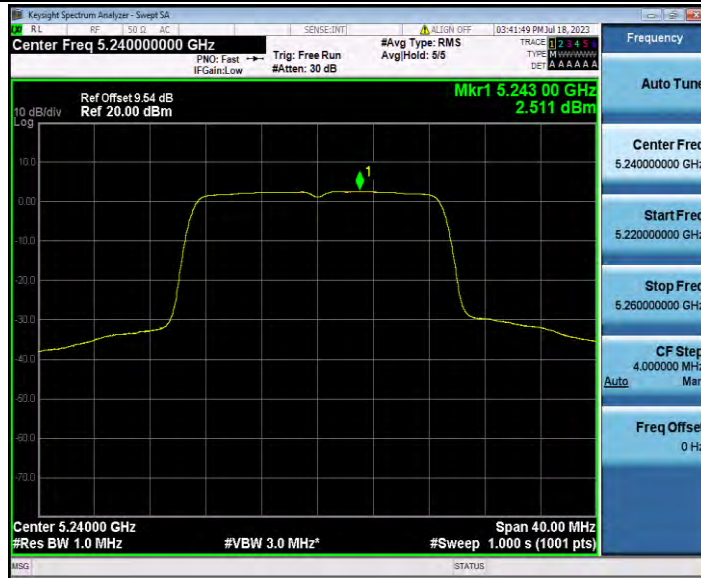
11A\_Ant1\_5240



11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



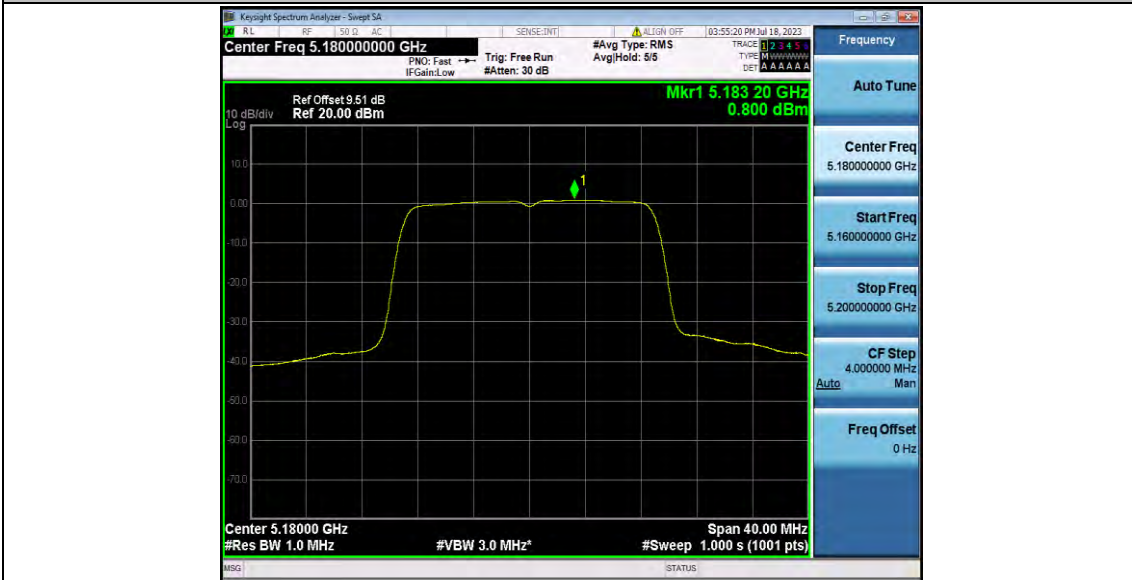
11N20SISO\_Ant1\_5240



11N40SISO\_Ant1\_5190



11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



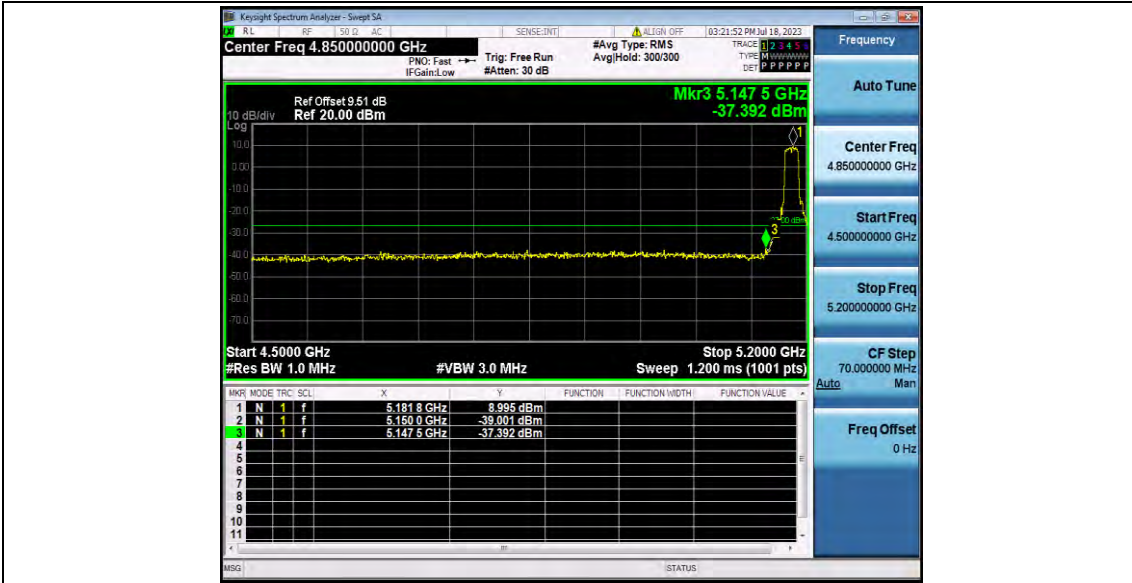
11AC80SISO\_Ant1\_5210

## Appendix D.6: Band edge measurements

### Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.39	$\leq -27$	PASS
		High	5240	-37.76	$\leq -27$	PASS
11N20SISO	Ant1	Low	5180	-35.31	$\leq -27$	PASS
		High	5240	-37.08	$\leq -27$	PASS
11N40SISO	Ant1	Low	5190	-33.98	$\leq -27$	PASS
		High	5230	-37.86	$\leq -27$	PASS
11AC20SISO	Ant1	Low	5180	-33.54	$\leq -27$	PASS
		High	5240	-38.04	$\leq -27$	PASS
11AC40SISO	Ant1	Low	5190	-33.21	$\leq -27$	PASS
		High	5230	-38.15	$\leq -27$	PASS
11AC80SISO	Ant1	Low	5210	-35.76	$\leq -27$	PASS
		High	5210	-38.22	$\leq -27$	PASS

### Test Graphs B1



11A\_Ant1\_Low\_5180



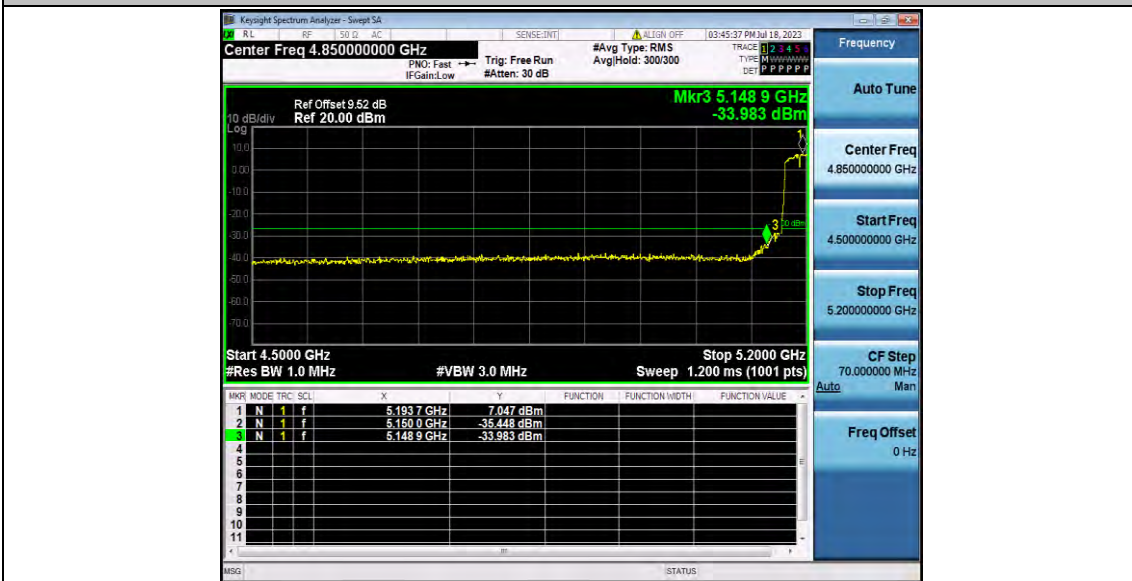
11A\_Ant1\_High\_5240



11N20SISO\_Ant1\_Low\_5180



11N20SISO\_Ant1\_High\_5240

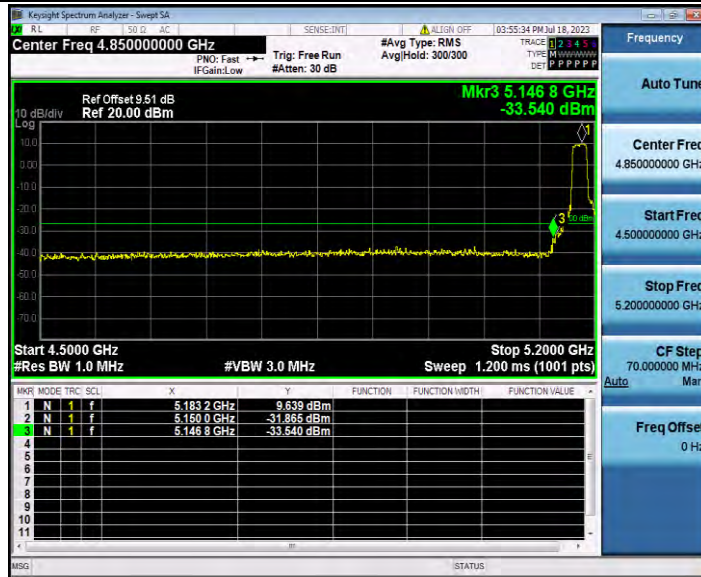




11N40SISO\_Ant1\_Low\_5190



11N40SISO\_Ant1\_High\_5230



11AC20SISO\_Ant1\_Low\_5180



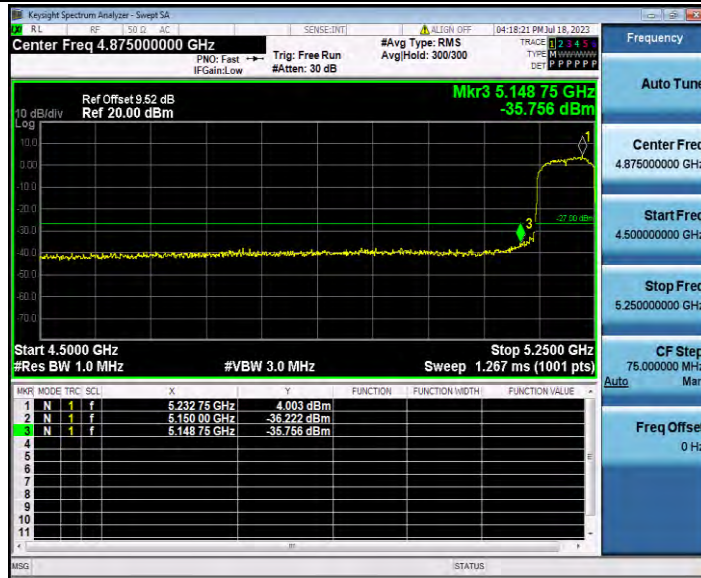
11AC20SISO\_Ant1\_High\_5240



11AC40SISO\_Ant1\_Low\_5190



11AC40SISO\_Ant1\_High\_5230



11AC80SISO\_Ant1\_Low\_5210



11AC80SISO\_Ant1\_High\_5210

## Appendix D.7: Conducted Spurious Emission

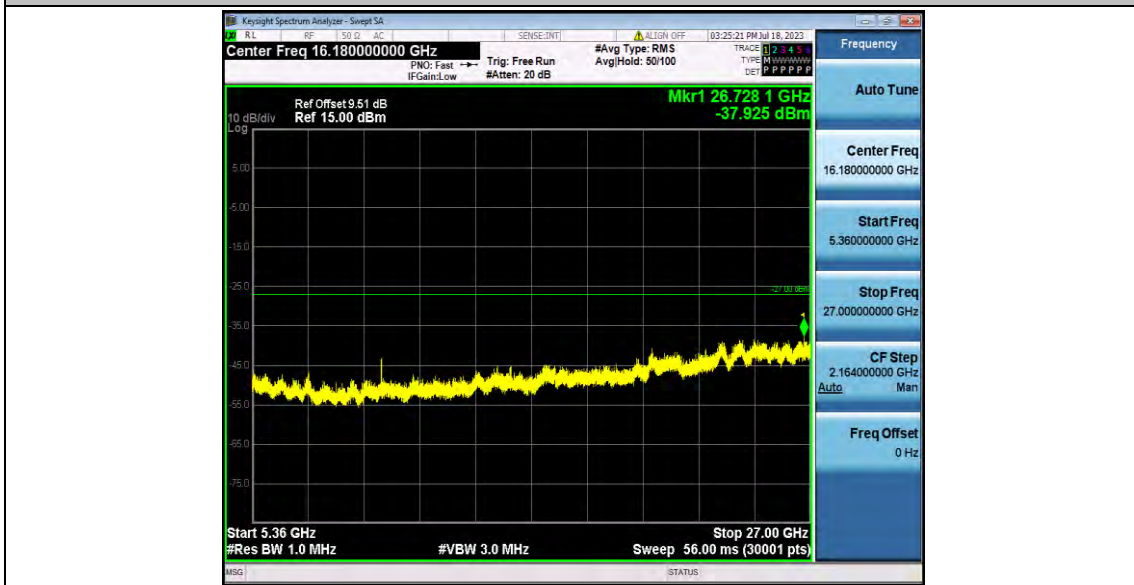
### Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	2522.49	-41.13	≤-27	PASS
			5360~40000	26728.06	-37.93	≤-27	PASS
		5200	30~5140	2522.32	-42.57	≤-27	PASS
			5360~40000	25192.34	-38.02	≤-27	PASS
		5240	30~5140	2325.92	-42.31	≤-27	PASS
			5360~40000	24792.72	-37.95	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	4990.79	-46.98	≤-27	PASS
			5360~40000	24761.7	-37.98	≤-27	PASS
		5200	30~5140	2335.46	-44.58	≤-27	PASS
			5360~40000	23551.31	-37.57	≤-27	PASS
		5240	30~5140	2678.85	-47.29	≤-27	PASS
			5360~40000	24263.98	-37.92	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5139.66	-40.74	≤-27	PASS
			5360~40000	24319.53	-37.49	≤-27	PASS
		5230	30~5140	2679.19	-47.64	≤-27	PASS
			5360~40000	24942.76	-37.92	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5011.91	-46.79	≤-27	PASS
			5360~40000	26510.94	-37.98	≤-27	PASS
		5200	30~5140	5066.42	-47.57	≤-27	PASS
			5360~40000	26607.59	-38.13	≤-27	PASS
		5240	30~5140	5059.77	-47.95	≤-27	PASS
			5360~40000	26433.03	-37.66	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5137.1	-39.96	≤-27	PASS
			5360~40000	26774.94	-37.54	≤-27	PASS
		5230	30~5140	4888.25	-46.71	≤-27	PASS
			5360~40000	24192.57	-37.57	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5138.98	-41.22	≤-27	PASS
			5360~40000	24280.57	-37.35	≤-27	PASS

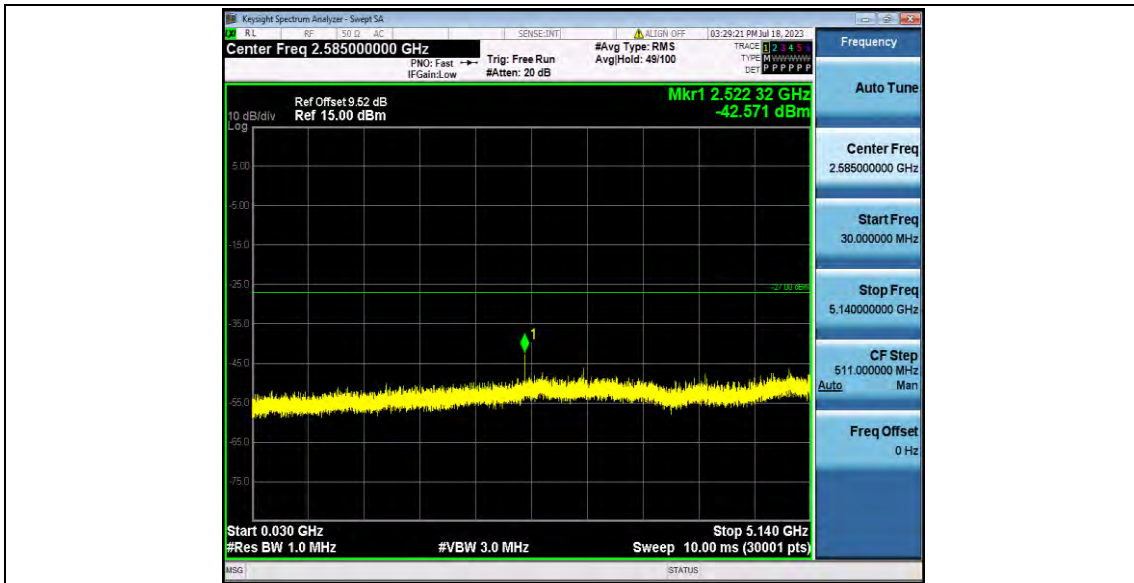
## Test Graphs



11A\_Ant1\_5180\_30~5140



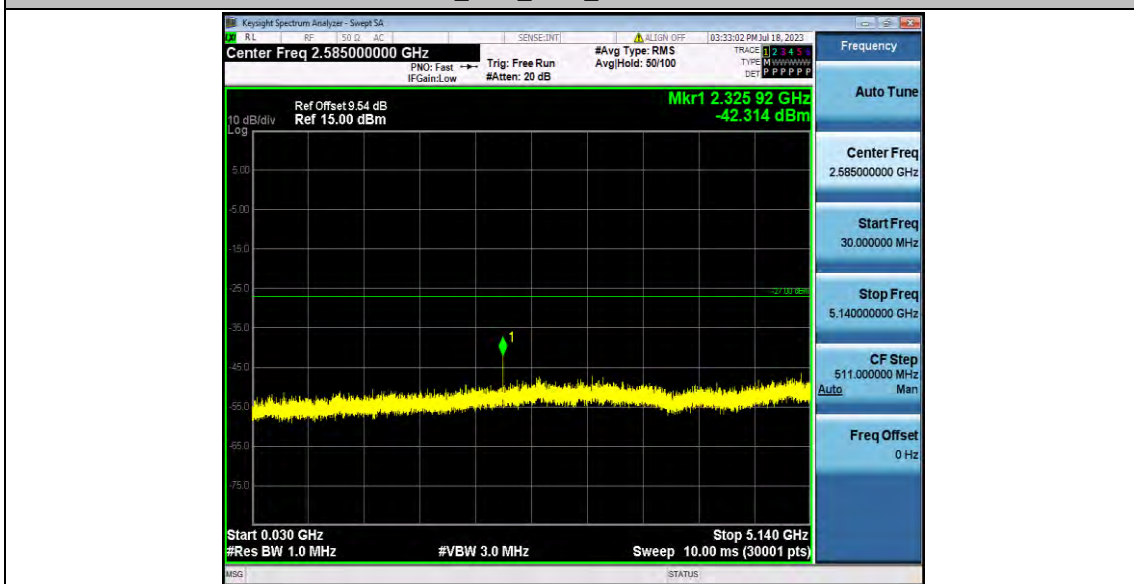
11A\_Ant1\_5180\_5360~40000



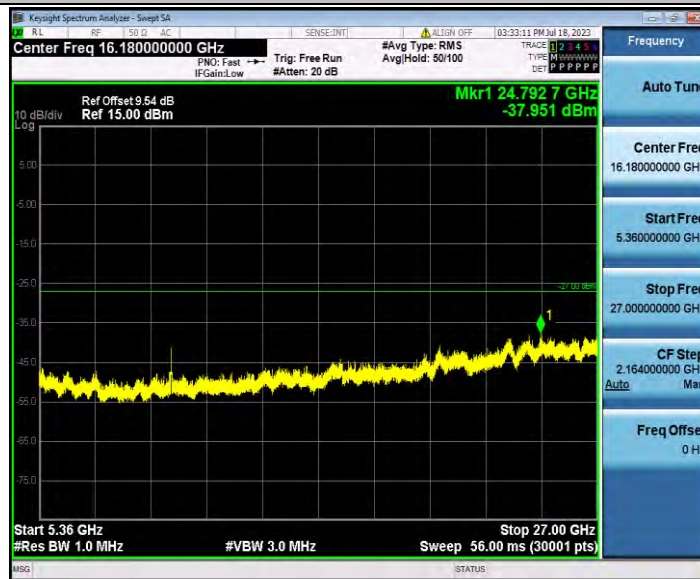
11A\_Ant1\_5200\_30~5140



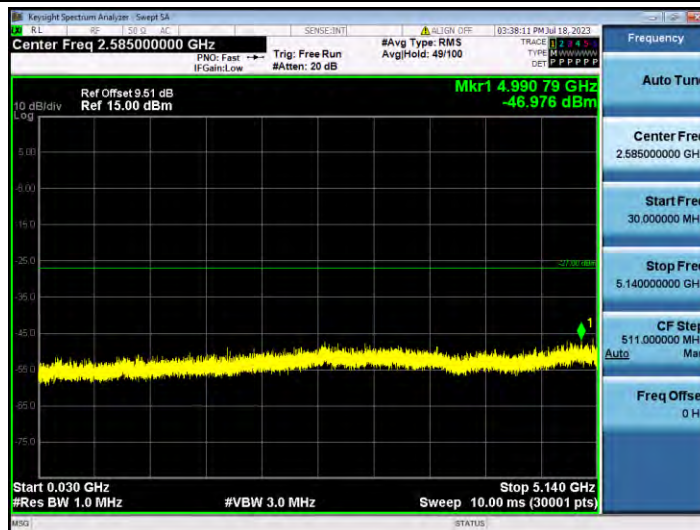
11A\_Ant1\_5200\_5360~40000



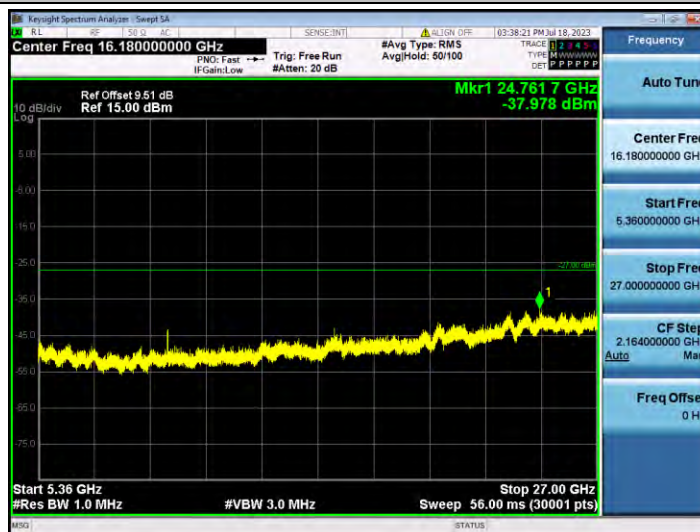
11A\_Ant1\_5240\_30~5140



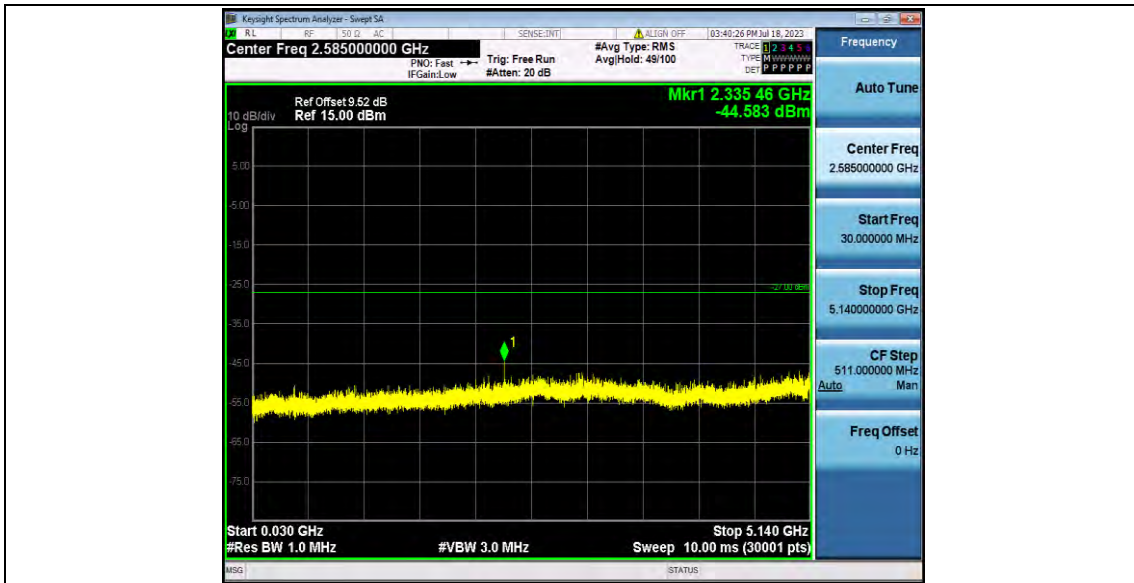
11A\_Ant1\_5240\_5360~40000



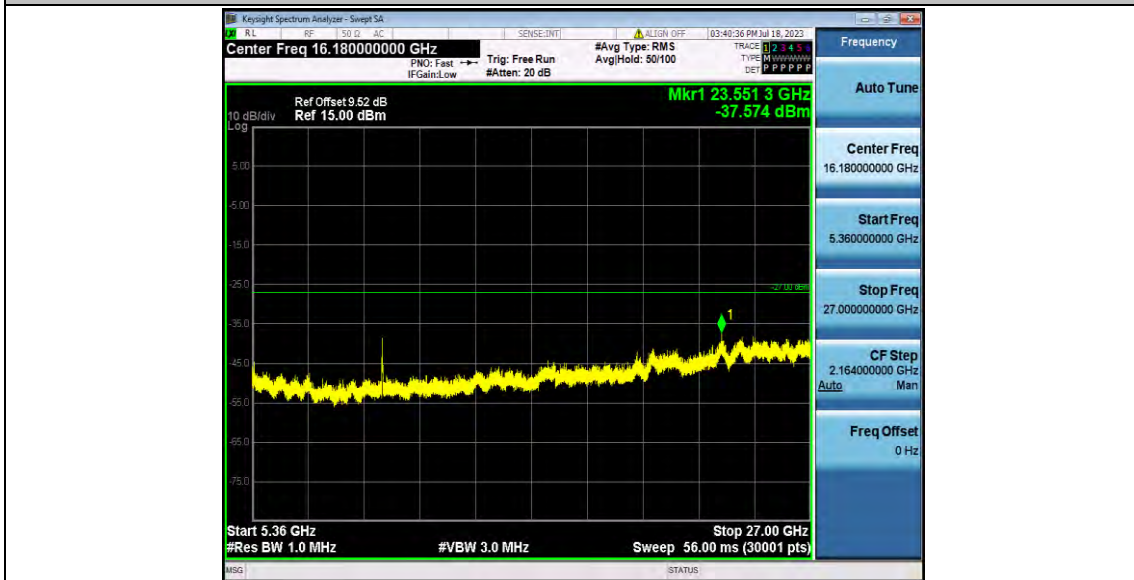
11N20SISO\_Ant1\_5180\_30~5140



11N20SISO\_Ant1\_5180\_5360~40000



11N20SISO\_Ant1\_5200\_30~5140

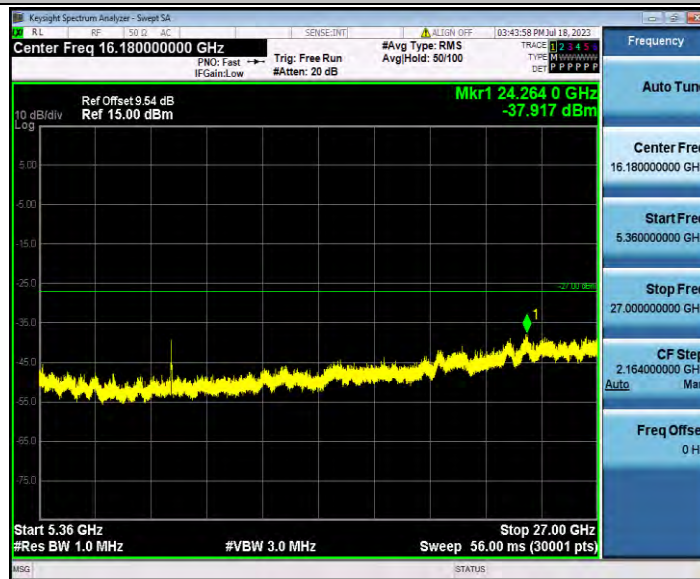


11N20SISO\_Ant1\_5200\_5360~40000





11N20SISO\_Ant1\_5240\_30~5140



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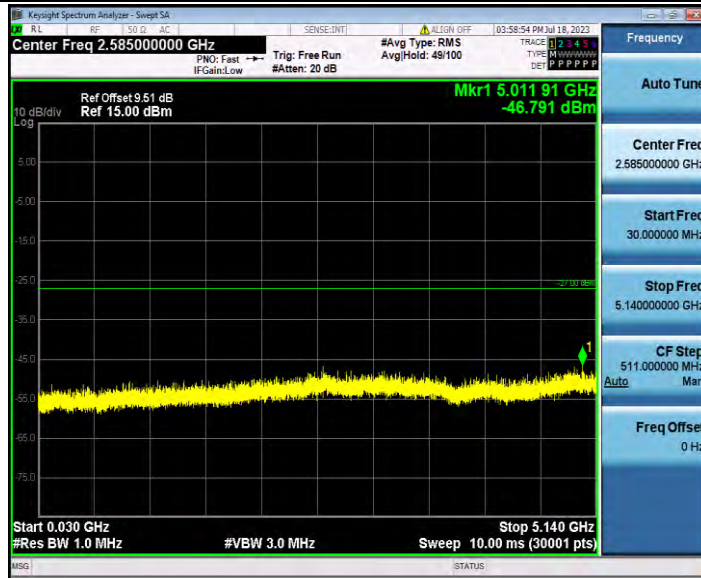
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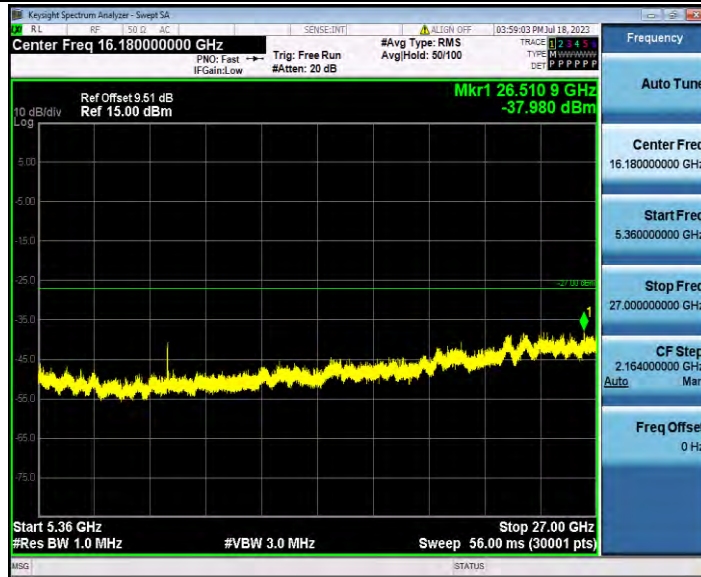
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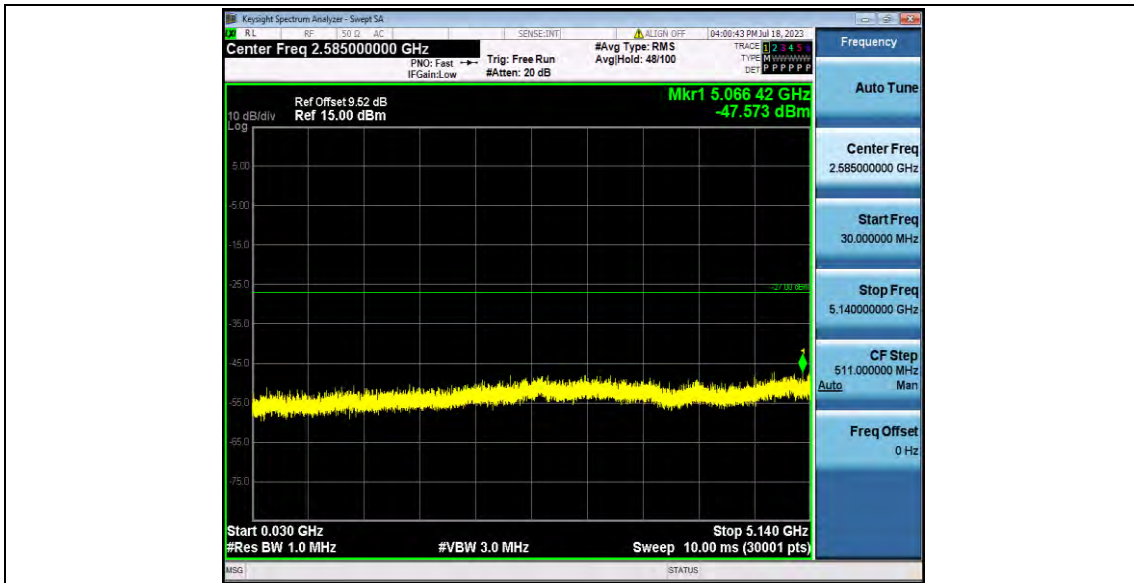
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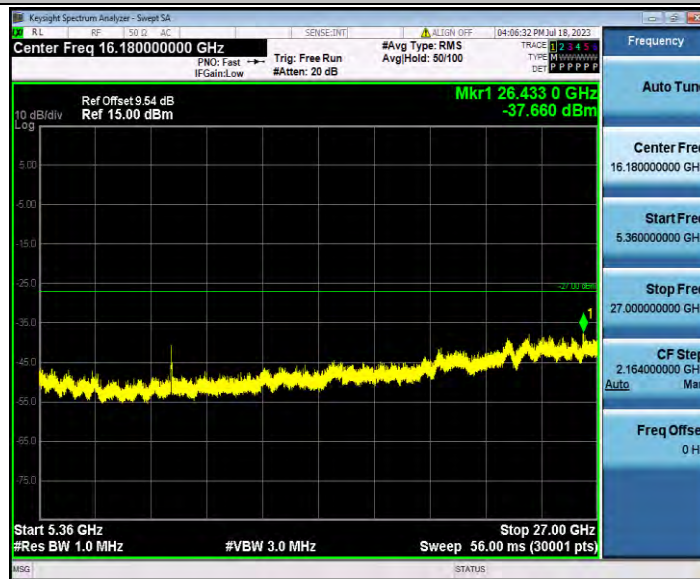
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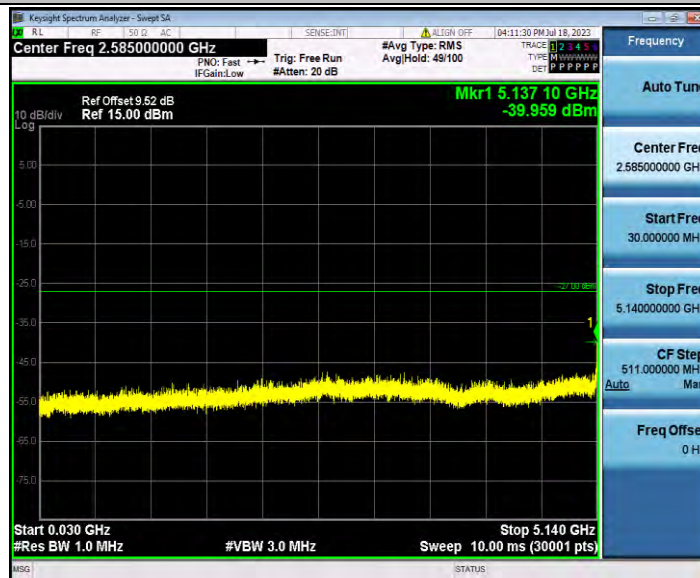
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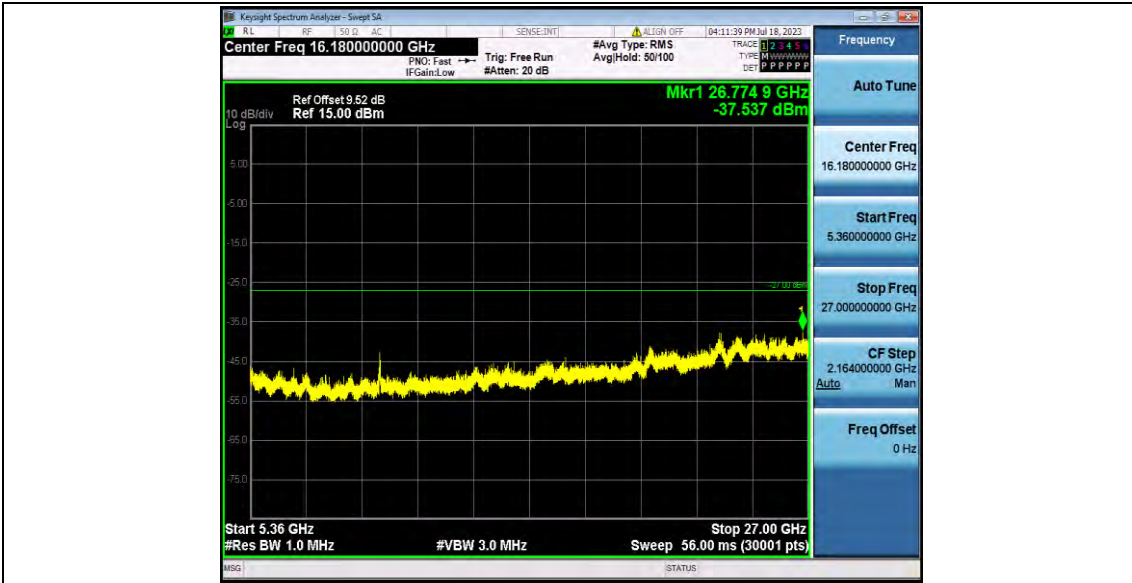
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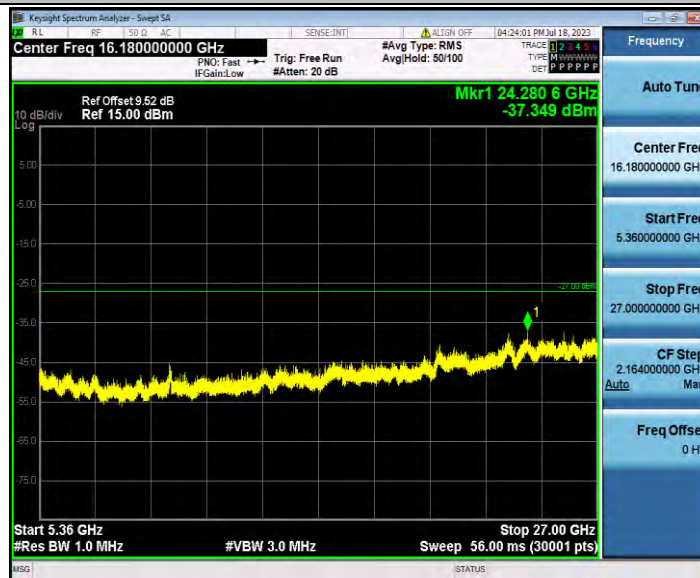
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