

<b>Case No. :</b> <u>GTS20230215017-1-11</u>
<b>Ambient Condition:</b> <u>23</u> °C, <u>51</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.3.22</u> <b>Test Engineer:</b> <u>Jenny zeng</u>

## Appendix D.1: Emission Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.160	5169.680	5189.840	---	---
		5200	20.440	5189.600	5210.040	---	---
		5240	20.160	5229.840	5250.000	---	---
11N20SISO	Ant1	5180	20.360	5169.800	5190.160	---	---
		5200	20.480	5189.520	5210.000	---	---
		5240	20.560	5229.480	5250.040	---	---
11N40SISO	Ant1	5190	42.240	5169.200	5211.440	---	---
		5230	40.720	5209.600	5250.320	---	---
11AC20SISO	Ant1	5180	20.120	5170.000	5190.120	---	---
		5200	20.040	5190.000	5210.040	---	---
		5240	20.000	5230.000	5250.000	---	---
11AC40SISO	Ant1	5190	40.800	5169.680	5210.480	---	---
		5230	40.720	5209.760	5250.480	---	---
11AC80SISO	Ant1	5210	81.920	5169.200	5251.120	---	---

## Test Graphs





11N20SISO\_Ant1\_5180



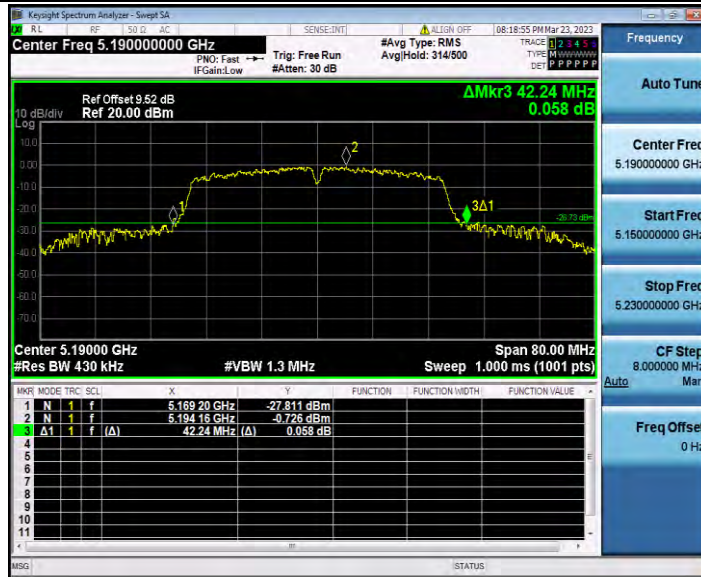
11N20SISO\_Ant1\_5200



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



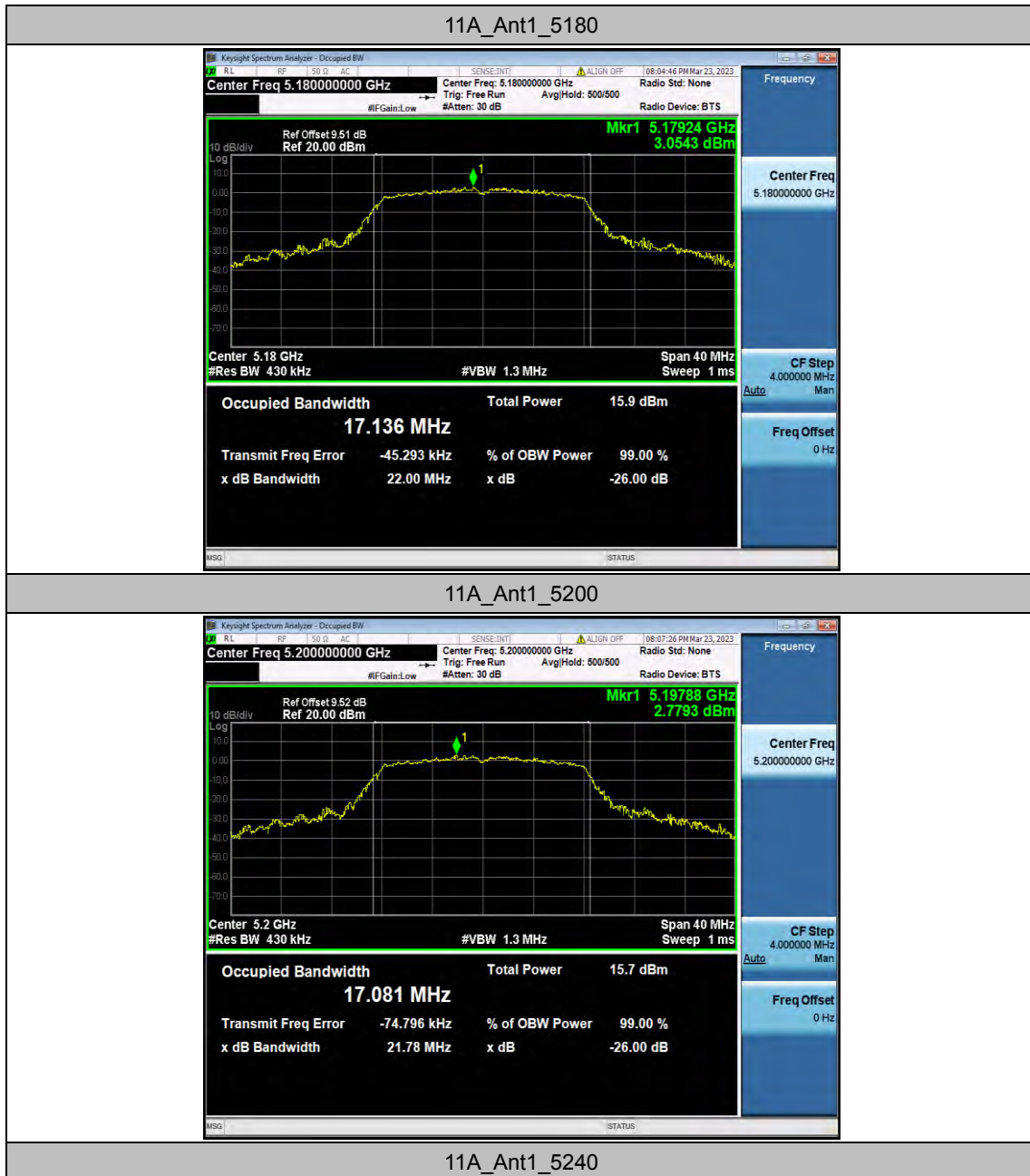
## Appendix D.2: Occupied channel bandwidth

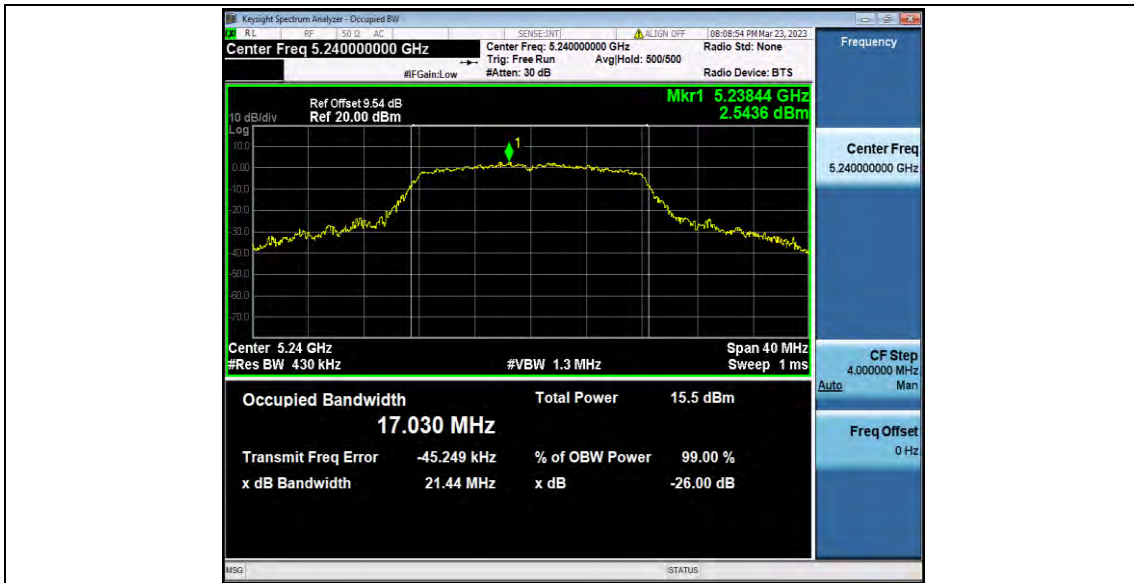
### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.136	5171.387	5188.523	---	---
		5200	17.081	5191.385	5208.466	---	---
		5240	17.030	5231.440	5248.470	---	---
11N20SISO	Ant1	5180	17.864	5171.107	5188.971	---	---
		5200	17.822	5191.116	5208.938	---	---
		5240	17.834	5231.060	5248.894	---	---
11N40SISO	Ant1	5190	36.440	5171.890	5208.330	---	---
		5230	36.473	5211.771	5248.244	---	---
11AC20SISO	Ant1	5180	17.794	5171.145	5188.939	---	---
		5200	17.756	5191.165	5208.921	---	---
		5240	17.749	5231.119	5248.868	---	---
11AC40SISO	Ant1	5190	36.287	5171.977	5208.264	---	---
		5230	36.231	5211.908	5248.139	---	---
11AC80SISO	Ant1	5210	75.939	5172.075	5248.014	---	---



## Test Graphs

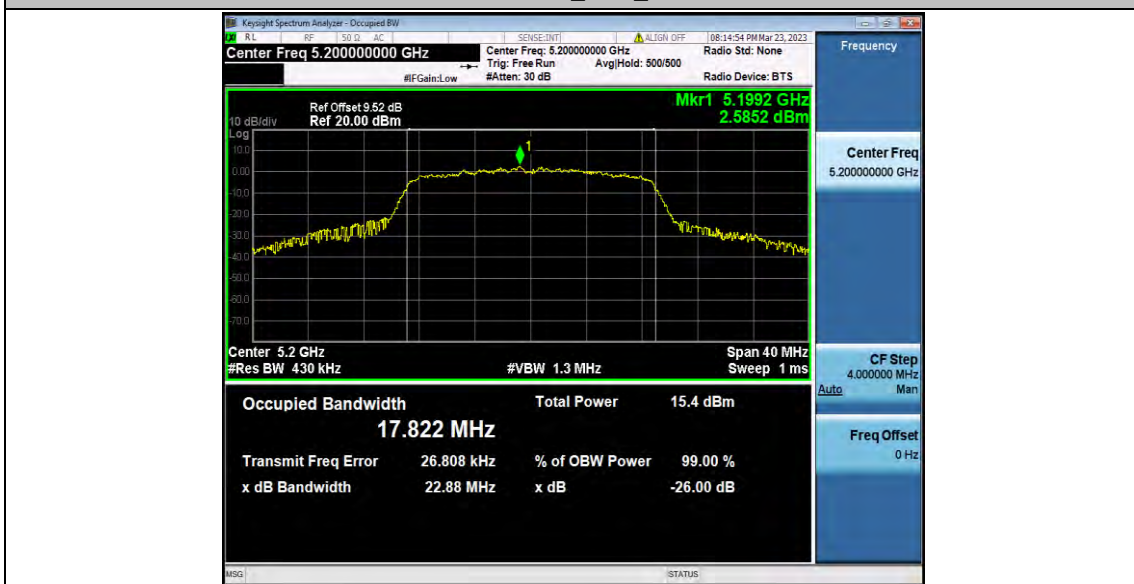




11N20SISO\_Ant1\_5180



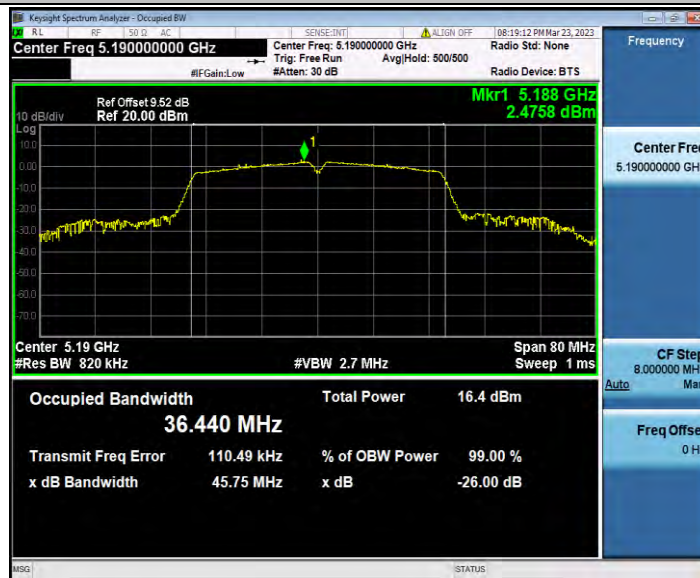
11N20SISO\_Ant1\_5200



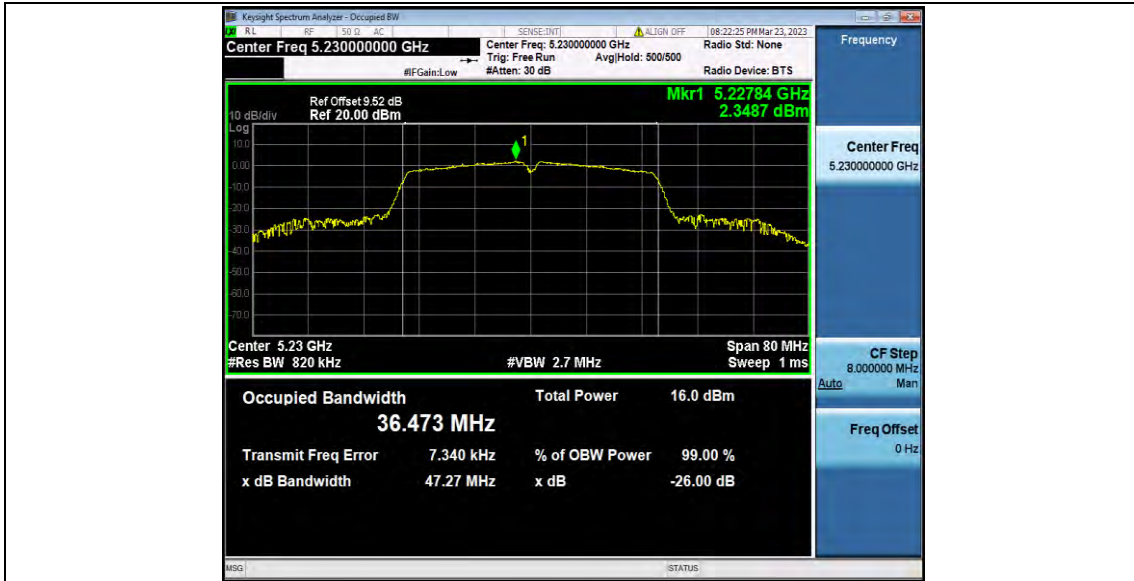
11N20SISO\_Ant1\_5240



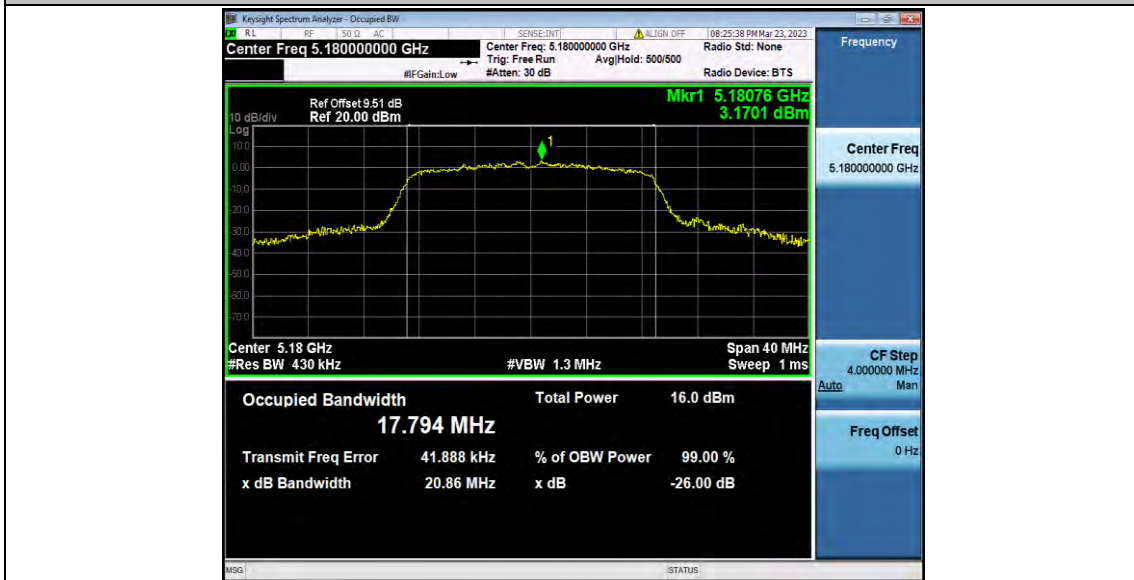
11N40SISO\_Ant1\_5190



11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180

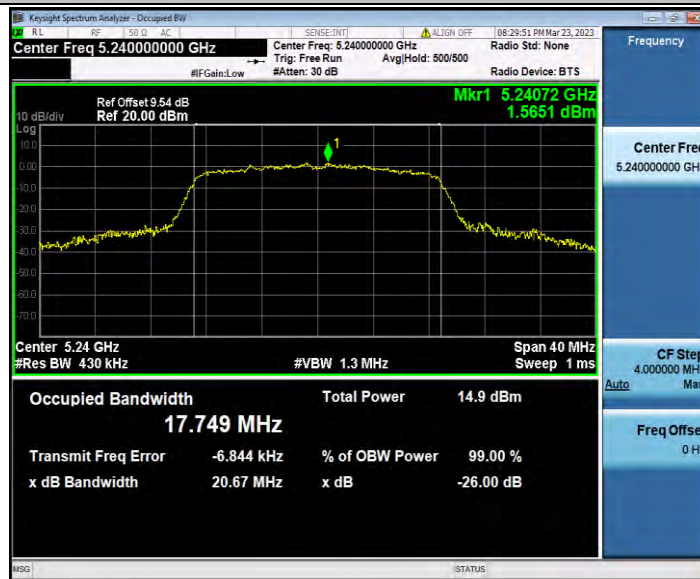


11AC20SISO\_Ant1\_5200

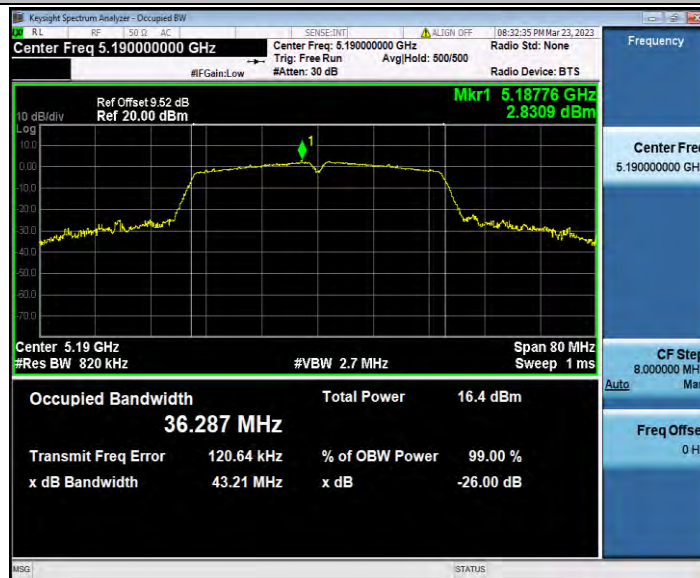




11AC20SISO\_Ant1\_5240

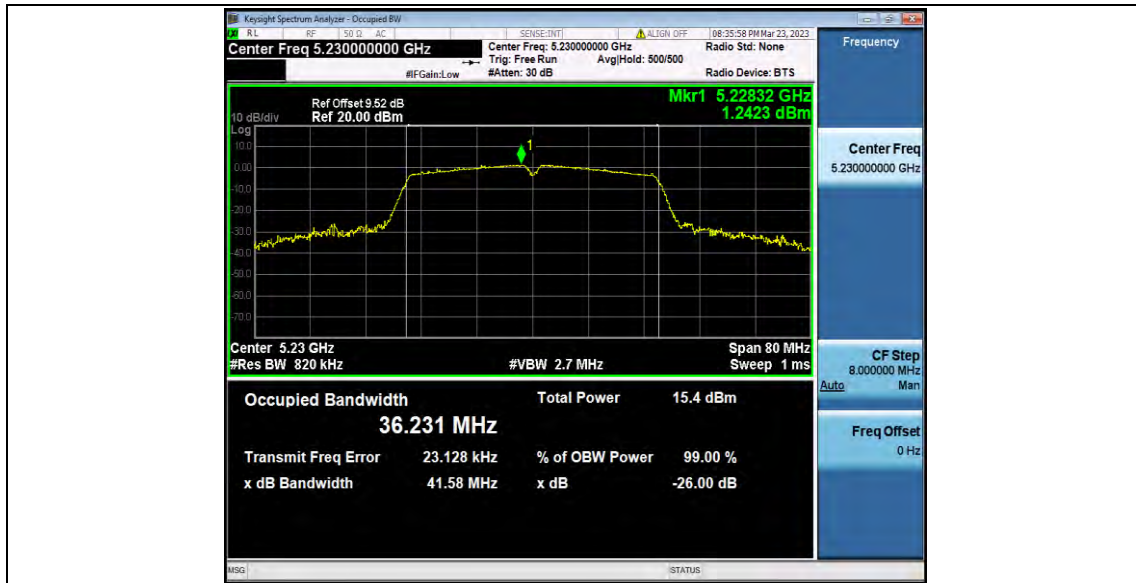


11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230





11AC80SISO\_Ant1\_5210

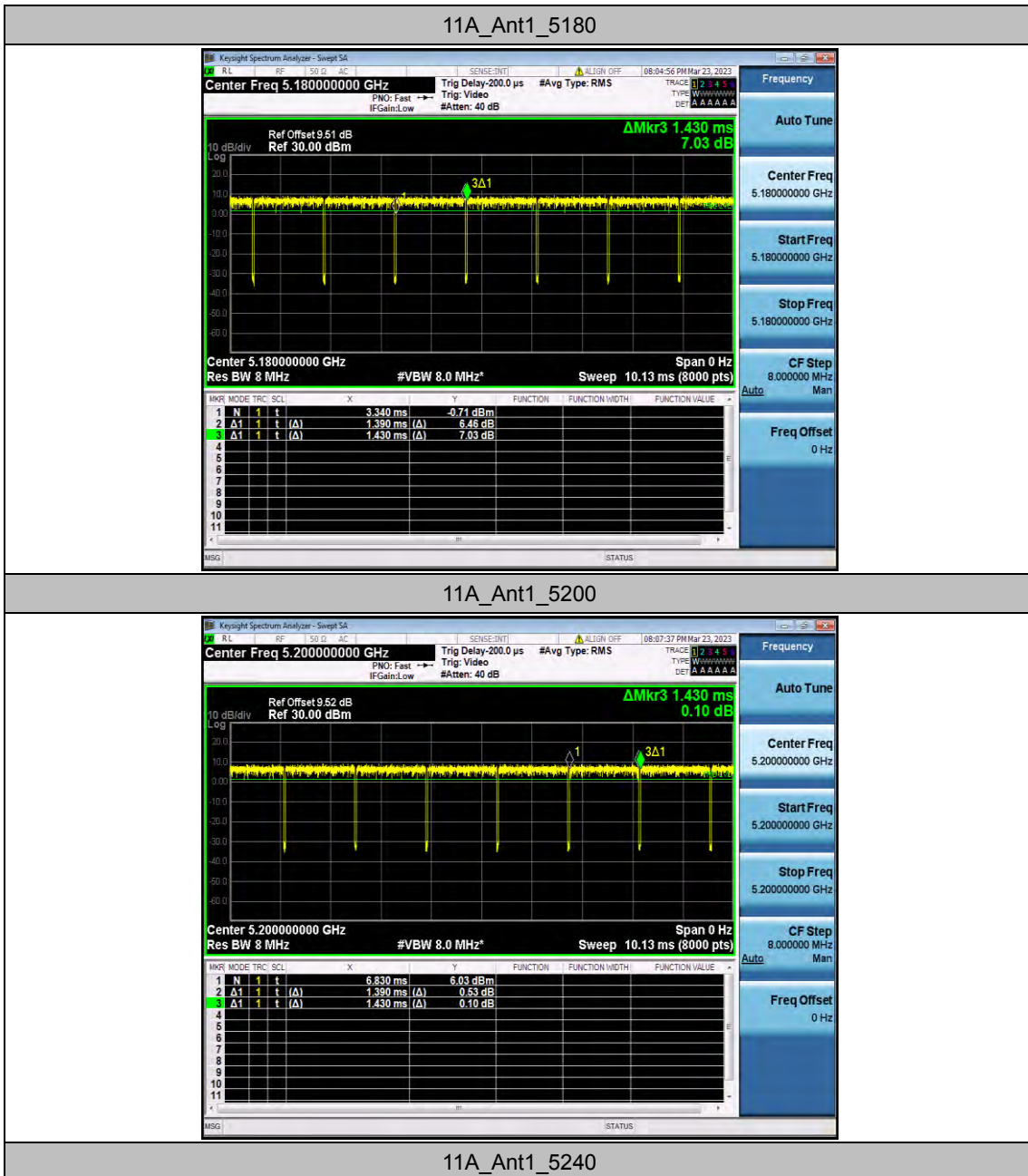


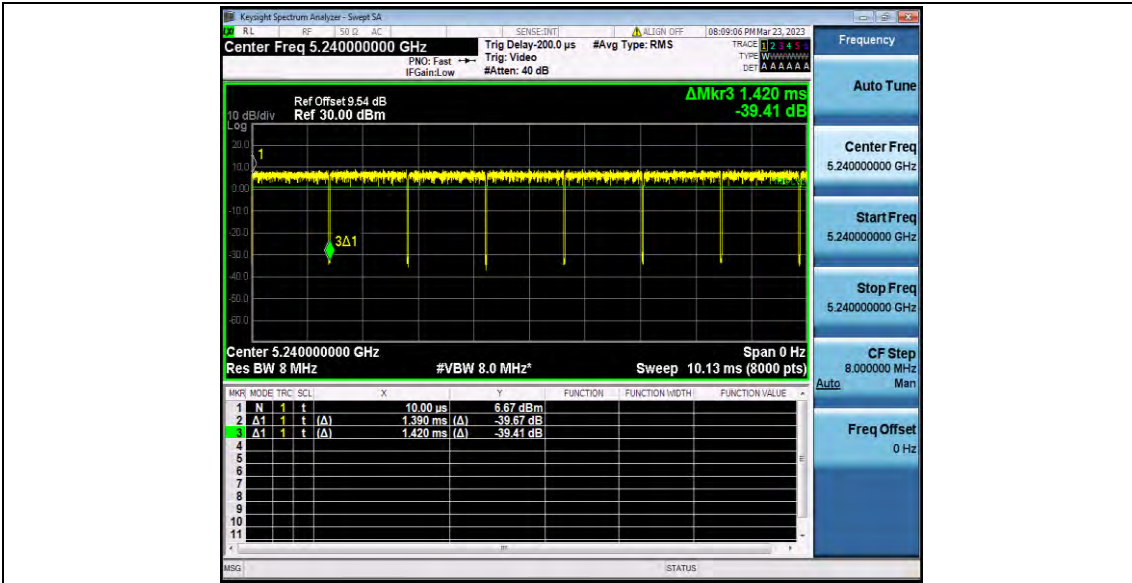
## Appendix D.3: Duty Cycle

### Test Result

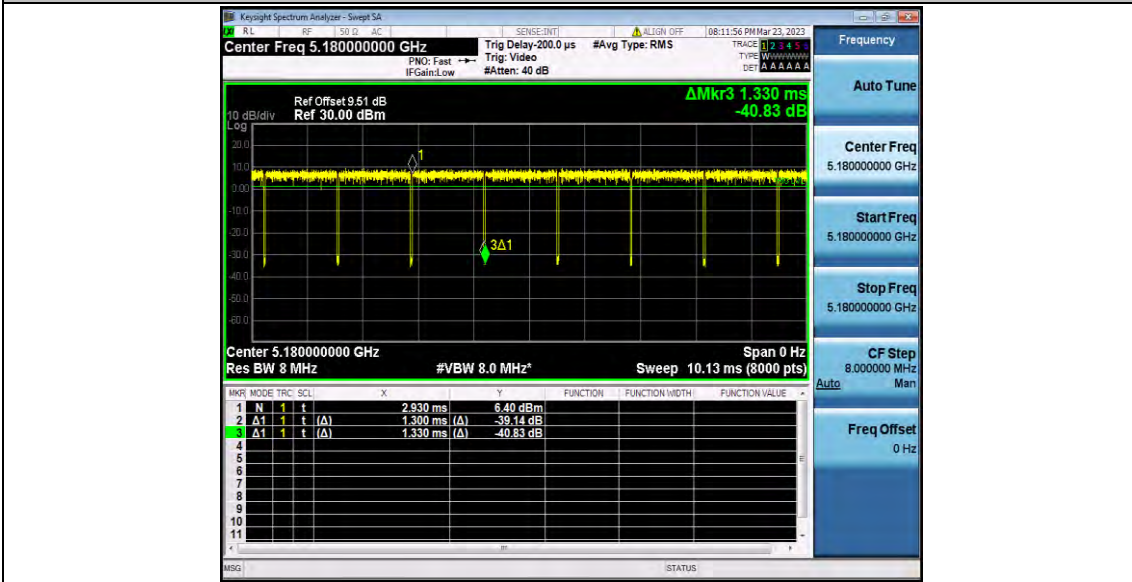
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.43	97.20
		5200	1.39	1.43	97.20
		5240	1.39	1.42	97.89
11N20SISO	Ant1	5180	1.30	1.33	97.74
		5200	1.30	1.33	97.74
		5240	1.29	1.33	96.99
11N40SISO	Ant1	5190	0.65	0.68	95.59
		5230	0.64	0.68	94.12
11AC20SISO	Ant1	5180	1.31	1.35	97.04
		5200	1.31	1.35	97.04
		5240	1.31	1.35	97.04
11AC40SISO	Ant1	5190	0.65	0.68	95.59
		5230	0.65	0.69	94.20
11AC80SISO	Ant1	5210	0.32	0.36	88.89

## Test Graphs

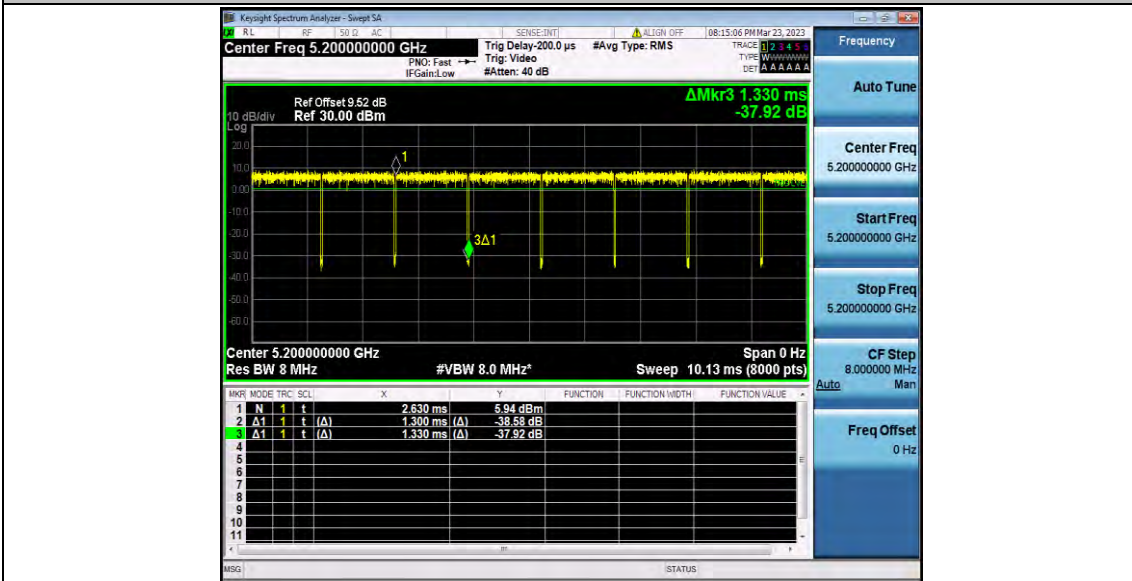




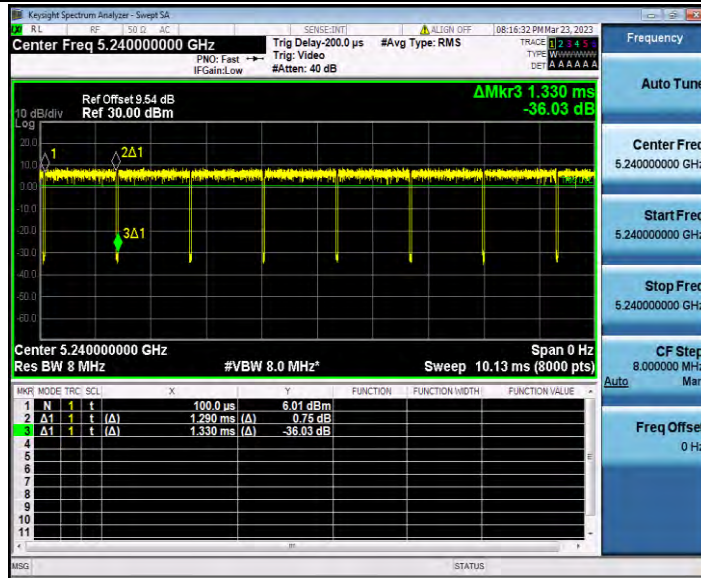
11N20SISO\_Ant1\_5180



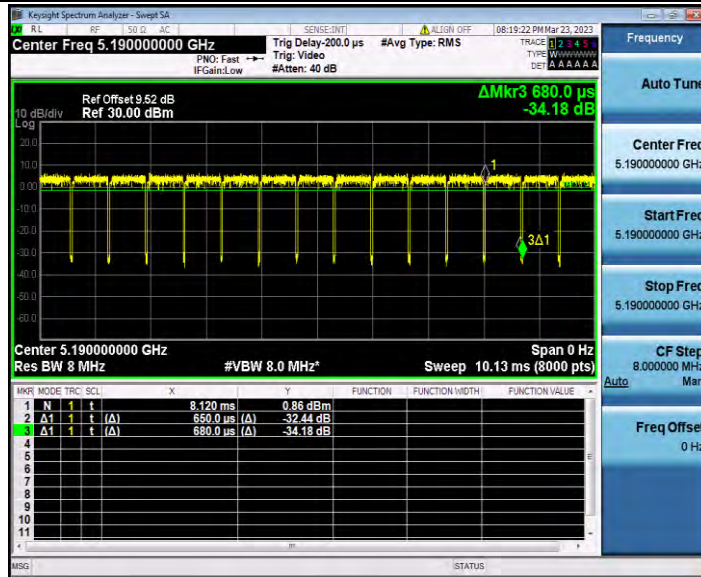
11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240

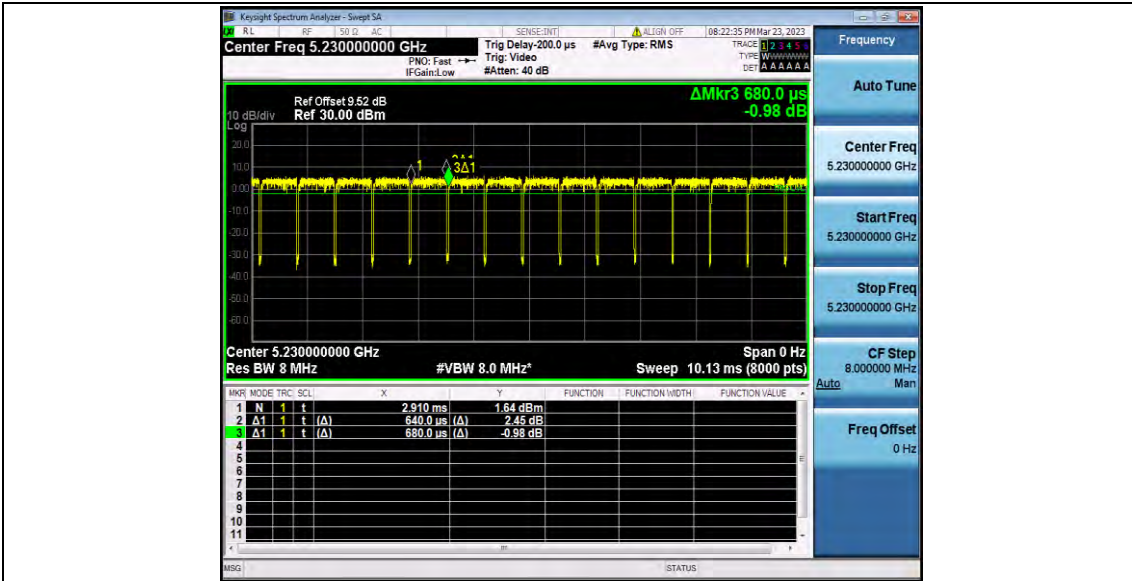


11N40SISO\_Ant1\_5190

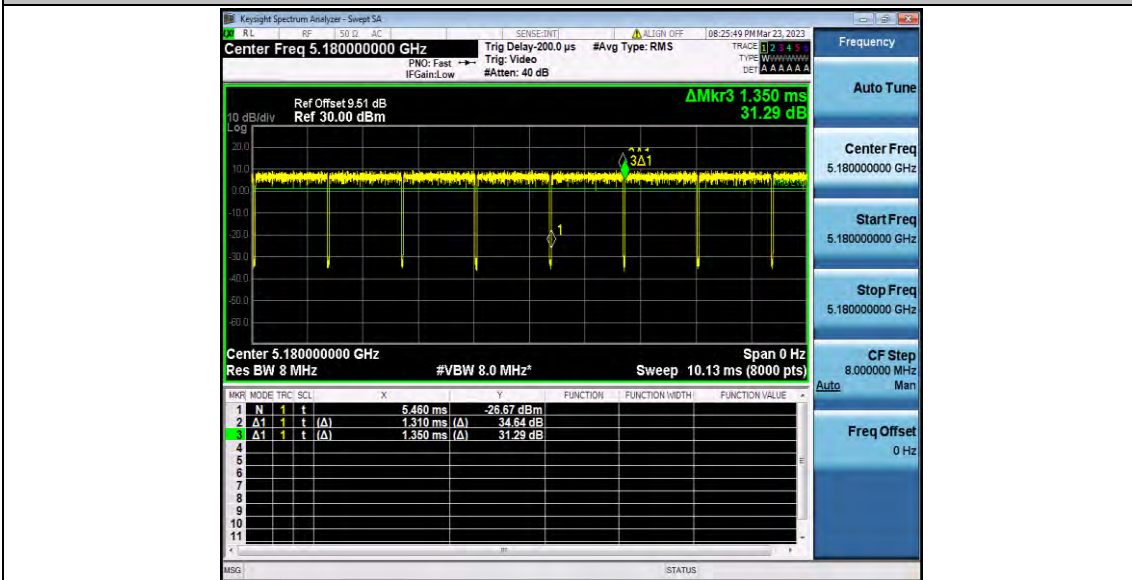


11N40SISO\_Ant1\_5230

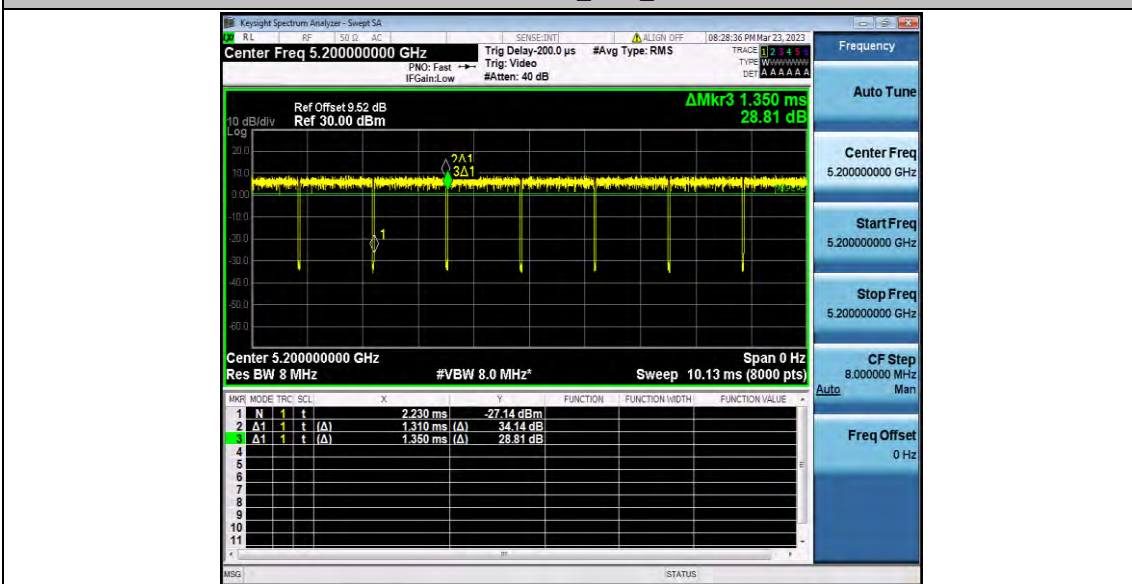




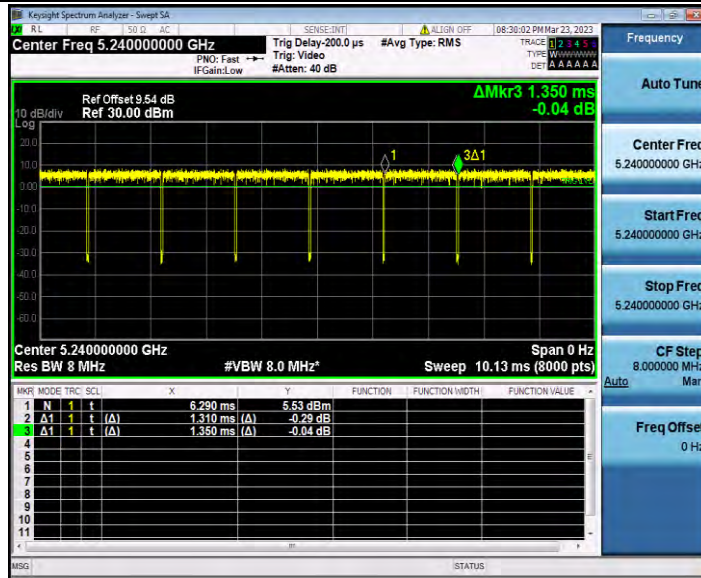
11AC20SISO\_Ant1\_5180



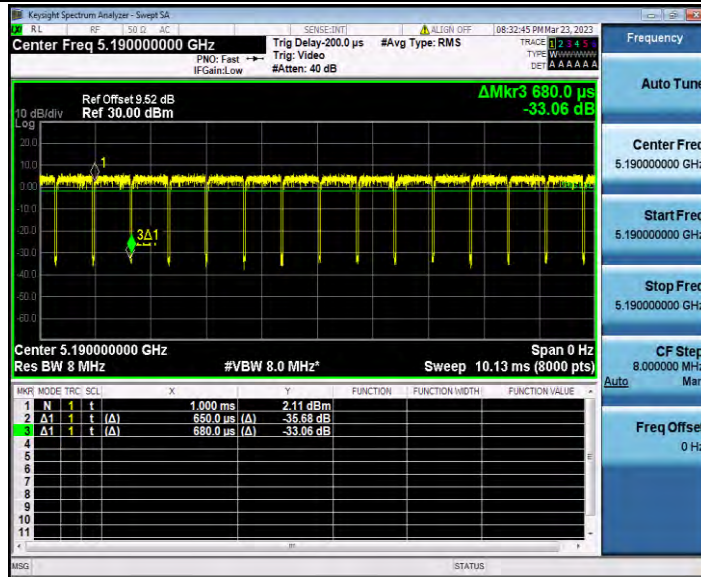
11AC20SISO\_Ant1\_5200



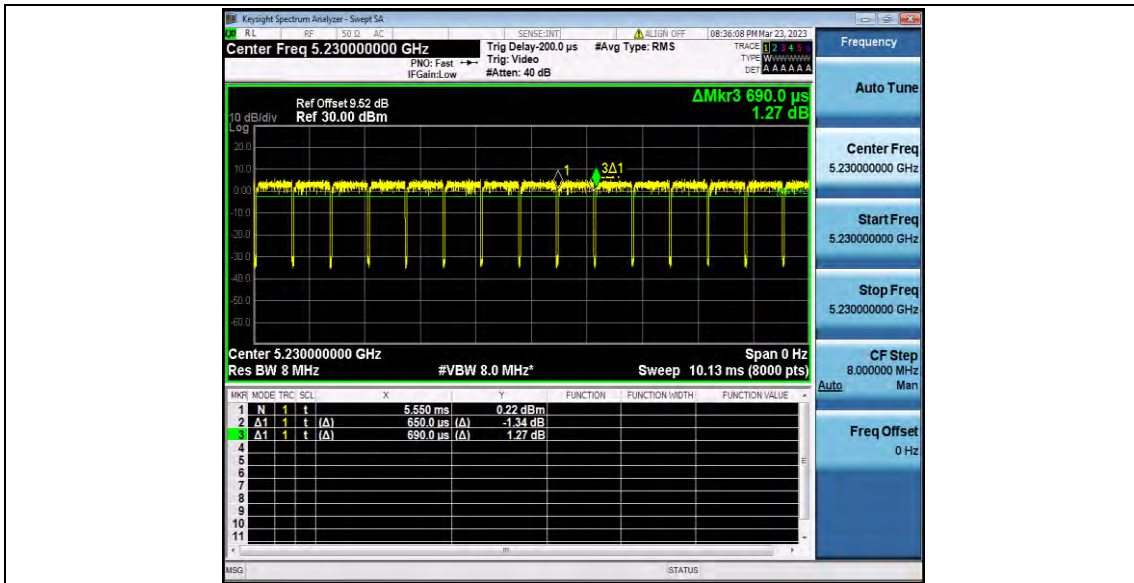
11AC20SISO\_Ant1\_5240



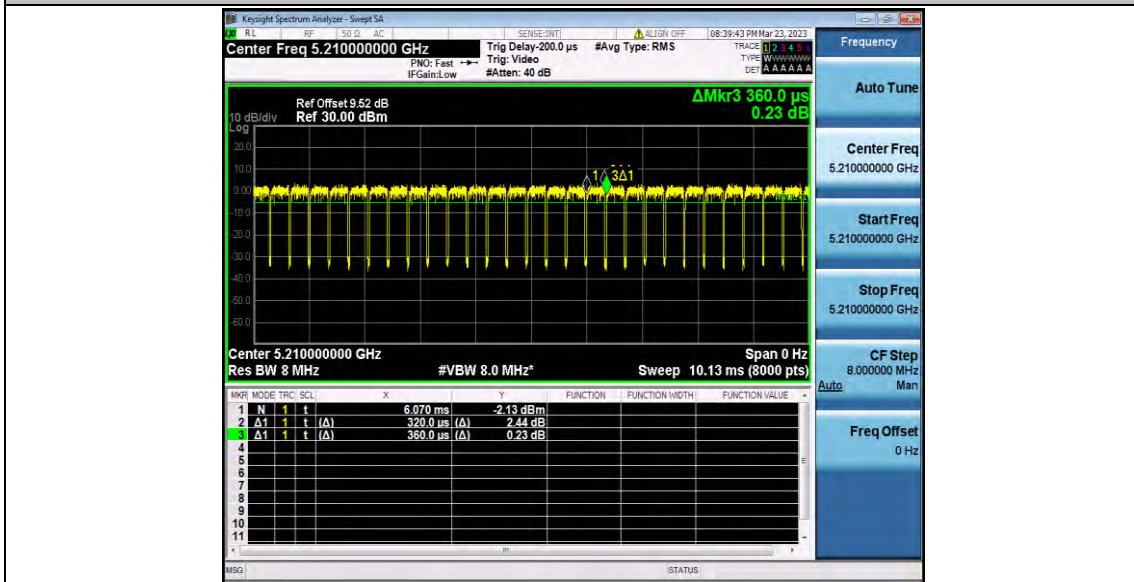
11AC40SISO\_Ant1\_5190



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	11.12	97.20	0.12	11.24	≤23.98	PASS
		5200	11.91	97.20	0.12	12.03	≤23.98	PASS
		5240	11.76	97.89	0.09	11.85	≤23.98	PASS
11N20SISO	Ant1	5180	11.20	97.74	0.10	11.3	≤23.98	PASS
		5200	11.65	97.74	0.10	11.75	≤23.98	PASS
		5240	11.58	96.99	0.13	11.71	≤23.98	PASS
11N40SISO	Ant1	5190	11.92	95.59	0.20	12.12	≤23.98	PASS
		5230	11.52	94.12	0.26	11.78	≤23.98	PASS
11AC20SIS O	Ant1	5180	11.18	97.04	0.13	11.31	≤23.98	PASS
		5200	11.68	97.04	0.13	11.81	≤23.98	PASS
		5240	11.11	97.04	0.13	11.24	≤23.98	PASS
11AC40SIS O	Ant1	5190	11.94	95.59	0.20	12.14	≤23.98	PASS
		5230	11.04	94.20	0.26	11.3	≤23.98	PASS
11AC80SIS O	Ant1	5210	11.77	88.89	0.51	12.28	≤23.98	PASS

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

## Appendix D.5: Maximum power spectral density

### Test Result

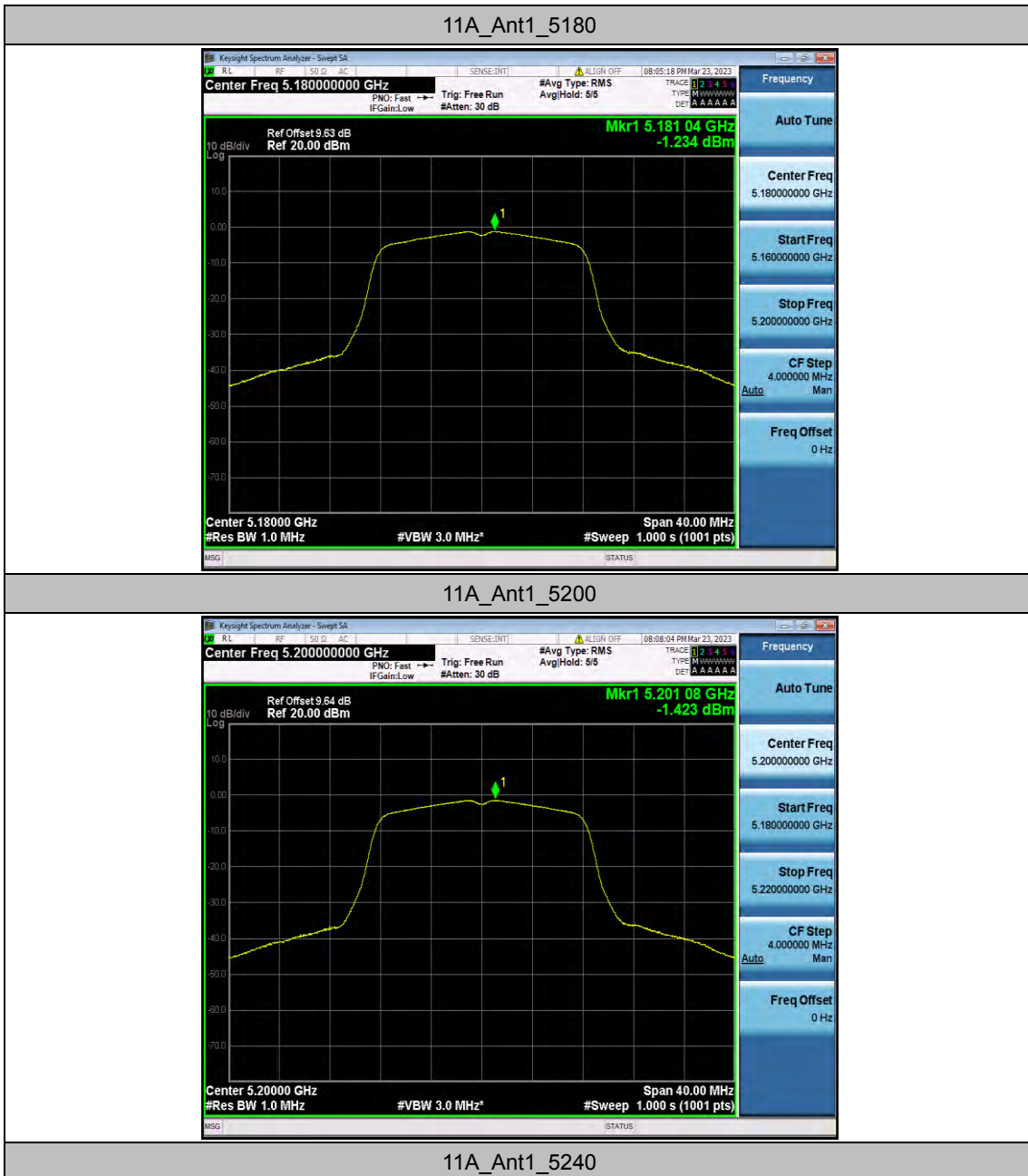
TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.23	≤11.00	PASS
		5200	-1.42	≤11.00	PASS
		5240	-1.54	≤11.00	PASS
11N20SISO	Ant1	5180	-1.37	≤11.00	PASS
		5200	-1.87	≤11.00	PASS
		5240	-1.9	≤11.00	PASS
11N40SISO	Ant1	5190	-4.26	≤11.00	PASS
		5230	-4.56	≤11.00	PASS
11AC20SISO	Ant1	5180	-1.36	≤11.00	PASS
		5200	-1.81	≤11.00	PASS
		5240	-2.34	≤11.00	PASS
11AC40SISO	Ant1	5190	-4.26	≤11.00	PASS
		5230	-5.05	≤11.00	PASS
11AC80SISO	Ant1	5210	-7.52	≤11.00	PASS

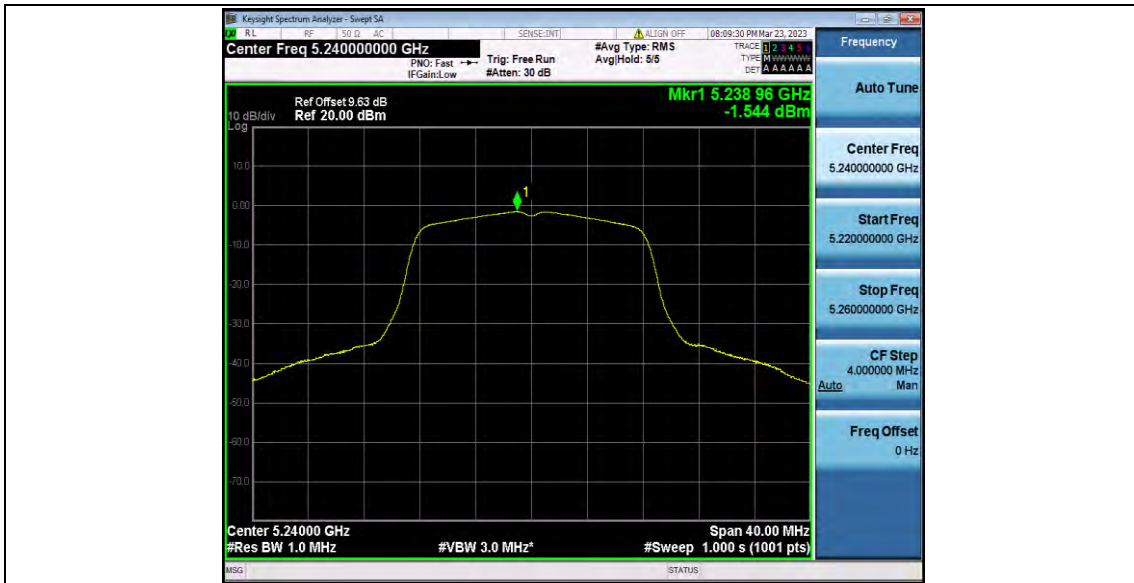
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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



## Test Graphs





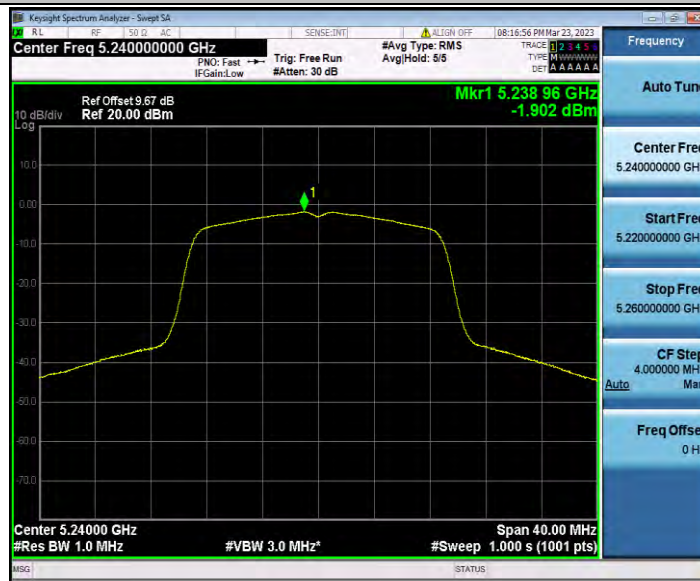
11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



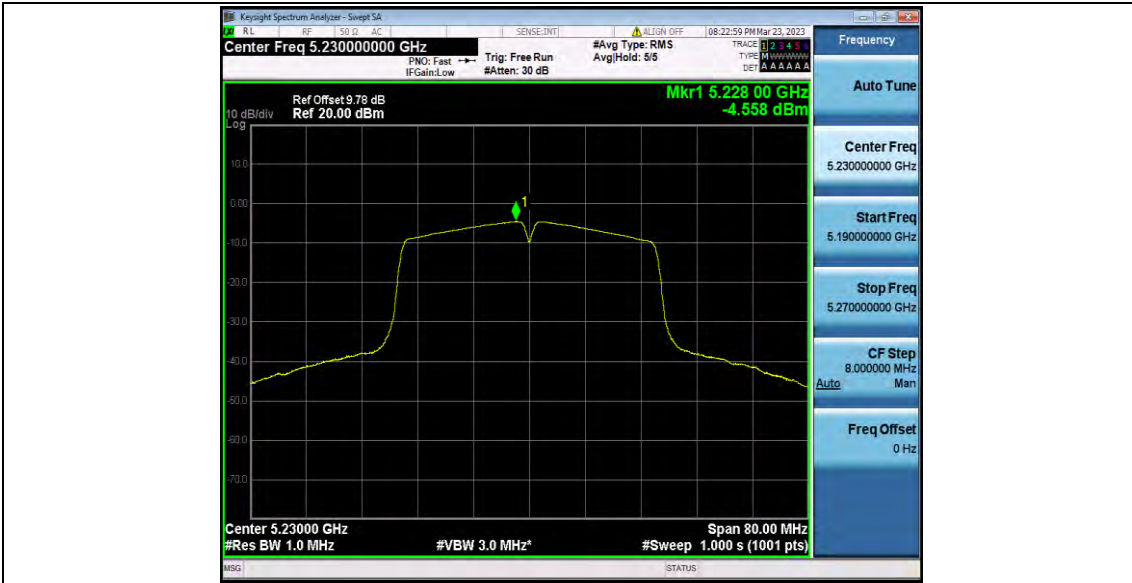
11N20SISO\_Ant1\_5240



11N40SISO\_Ant1\_5190



11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200





11AC20SISO\_Ant1\_5240

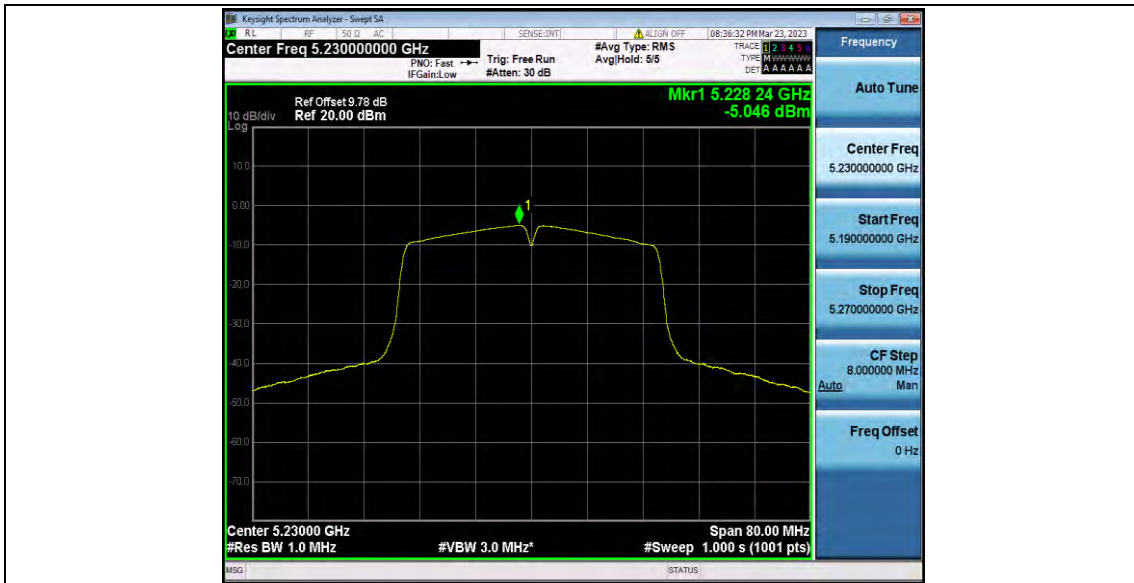


11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230





11AC80SISO\_Ant1\_5210

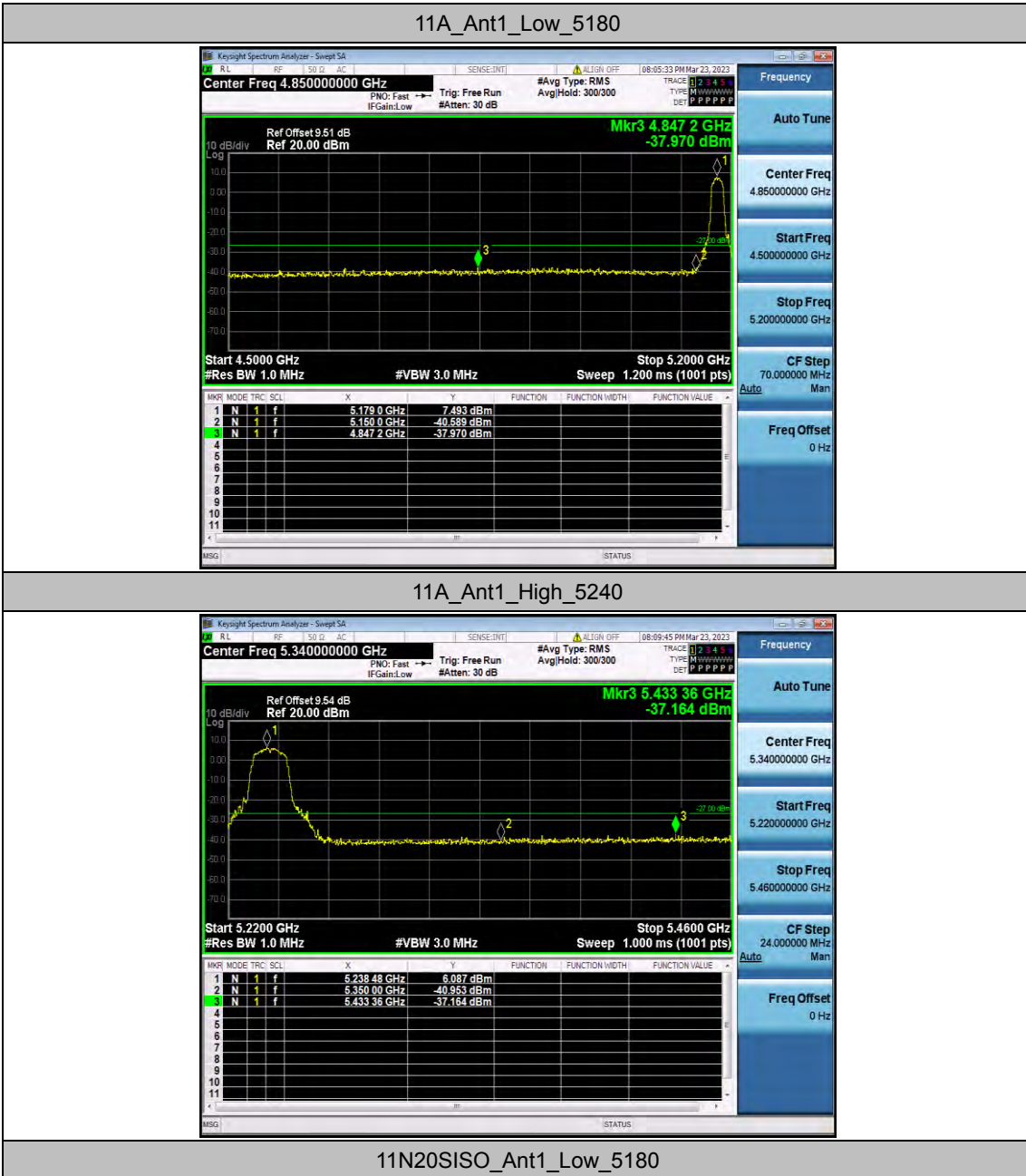


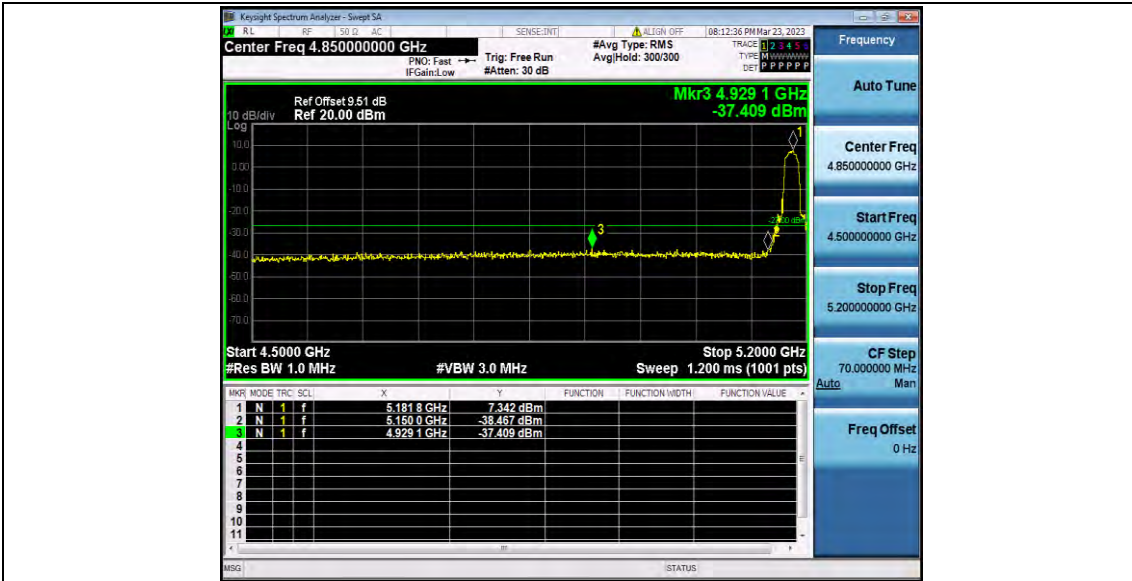
## Appendix D.6: Band edge measurements

### Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.97	≤-27	PASS
		High	5240	-37.16	≤-27	PASS
11N20SISO	Ant1	Low	5180	-37.41	≤-27	PASS
		High	5240	-37.72	≤-27	PASS
11N40SISO	Ant1	Low	5190	-33.12	≤-27	PASS
		High	5230	-37.63	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-36.85	≤-27	PASS
		High	5240	-38.13	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-33.92	≤-27	PASS
		High	5230	-37.3	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-27.4	≤-27	PASS
		High	5210	-38.15	≤-27	PASS

### Test Graphs B1

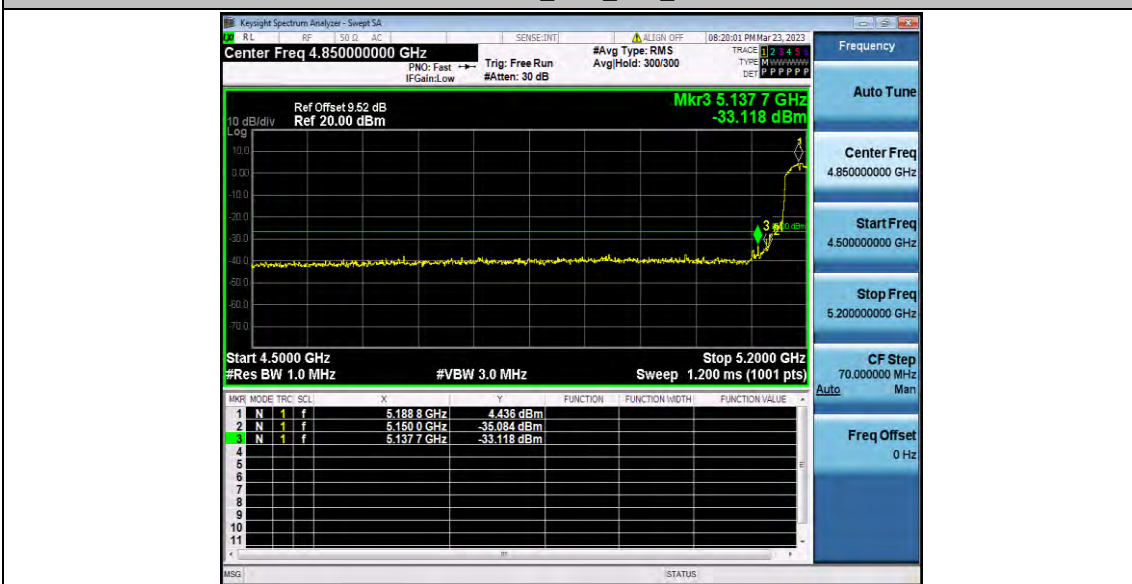




11N20SISO\_Ant1\_High\_5240



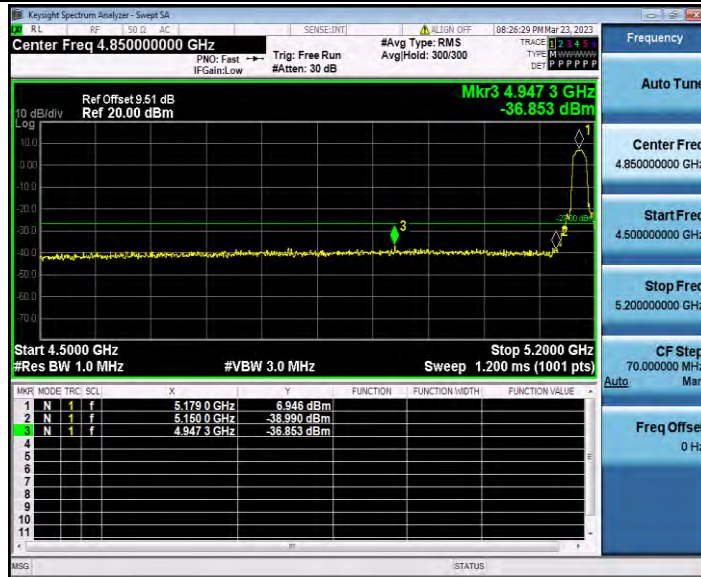
11N40SISO\_Ant1\_Low\_5190



11N40SISO\_Ant1\_High\_5230



11AC20SISO\_Ant1\_Low\_5180

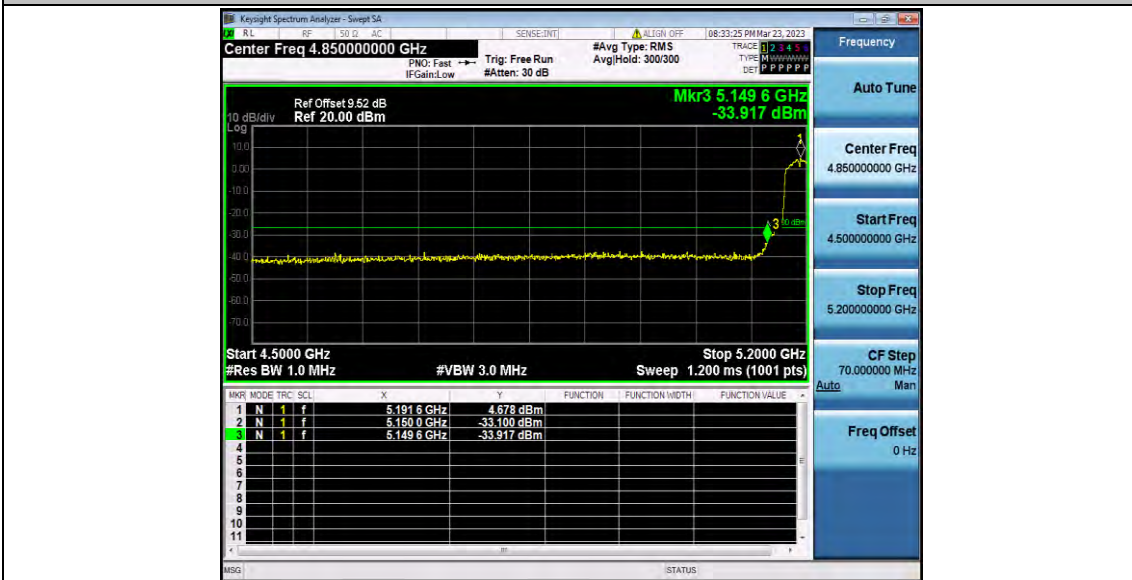


11AC20SISO\_Ant1\_High\_5240





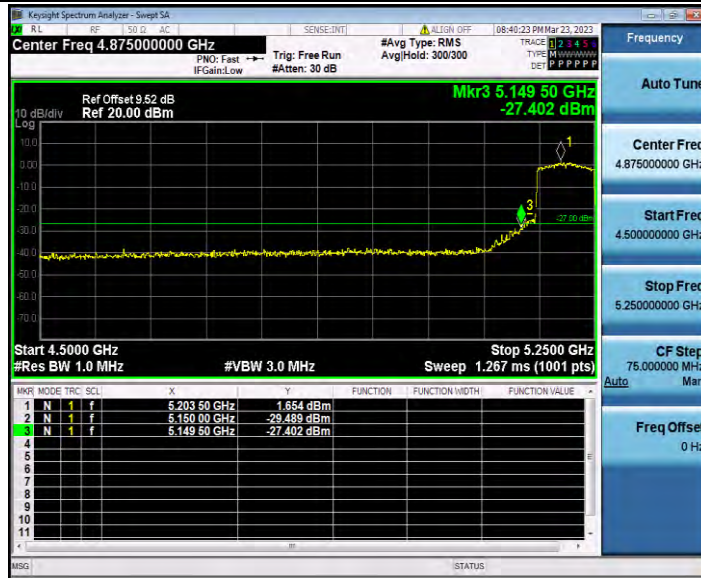
11AC40SISO\_Ant1\_Low\_5190



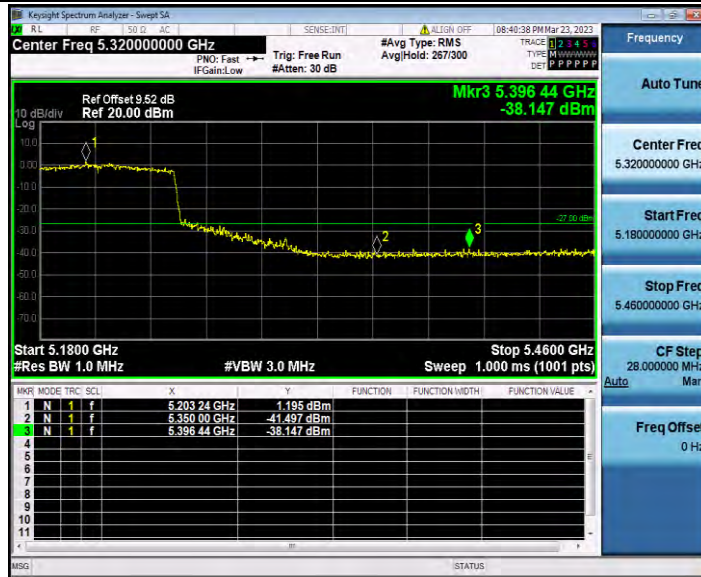
11AC40SISO\_Ant1\_High\_5230



11AC80SISO\_Ant1\_Low\_5210



11AC80SISO\_Ant1\_High\_5210



## Appendix D.7: Conducted Spurious Emission

### Test Result

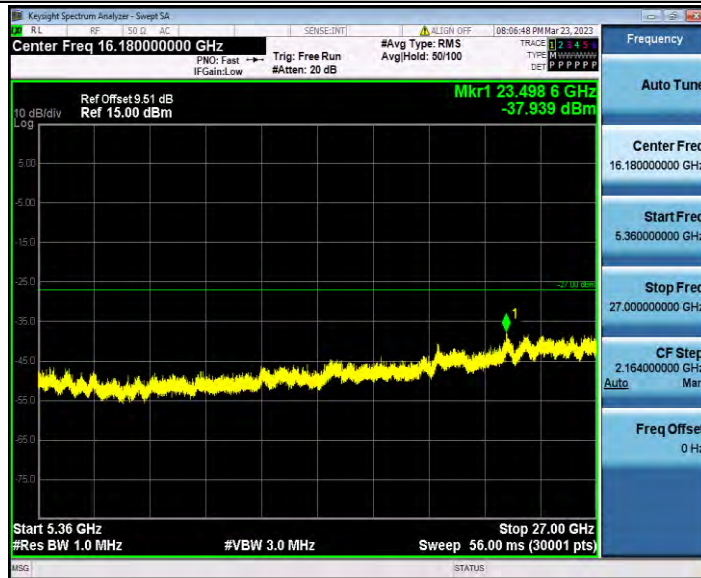
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	4909.71	-45.55	≤-27	PASS
			5360~40000	23498.65	-37.94	≤-27	PASS
		5200	30~5140	5002.88	-46.2	≤-27	PASS
			5360~40000	26945.18	-38.06	≤-27	PASS
		5240	30~5140	3237.89	-47.49	≤-27	PASS
			5360~40000	25998.79	-37.49	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5128.76	-46.6	≤-27	PASS
			5360~40000	23530.39	-37.53	≤-27	PASS
		5200	30~5140	4980.91	-46.52	≤-27	PASS
			5360~40000	24204.11	-37.45	≤-27	PASS
		5240	30~5140	5011.23	-46.87	≤-27	PASS
			5360~40000	24282.74	-38.23	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5138.98	-42.91	≤-27	PASS
			5360~40000	25541.46	-38.13	≤-27	PASS
		5230	30~5140	1745.09	-44.54	≤-27	PASS
			5360~40000	26653.76	-37.86	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	4955.87	-46.16	≤-27	PASS
			5360~40000	24327.46	-37.76	≤-27	PASS
		5200	30~5140	4943.27	-46.92	≤-27	PASS
			5360~40000	24181.03	-37.81	≤-27	PASS
		5240	30~5140	4942.24	-47.09	≤-27	PASS
			5360~40000	26099.05	-37.5	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5140	-43.03	≤-27	PASS
			5360~40000	24202.67	-37.9	≤-27	PASS
		5230	30~5140	4761.86	-47.28	≤-27	PASS
			5360~40000	26568.64	-37.74	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5136.59	-32.07	≤-27	PASS
			5360~40000	24287.07	-37.77	≤-27	PASS

## Test Graphs

11A\_Ant1\_5180\_30~5140



11A\_Ant1\_5180\_5360~40000

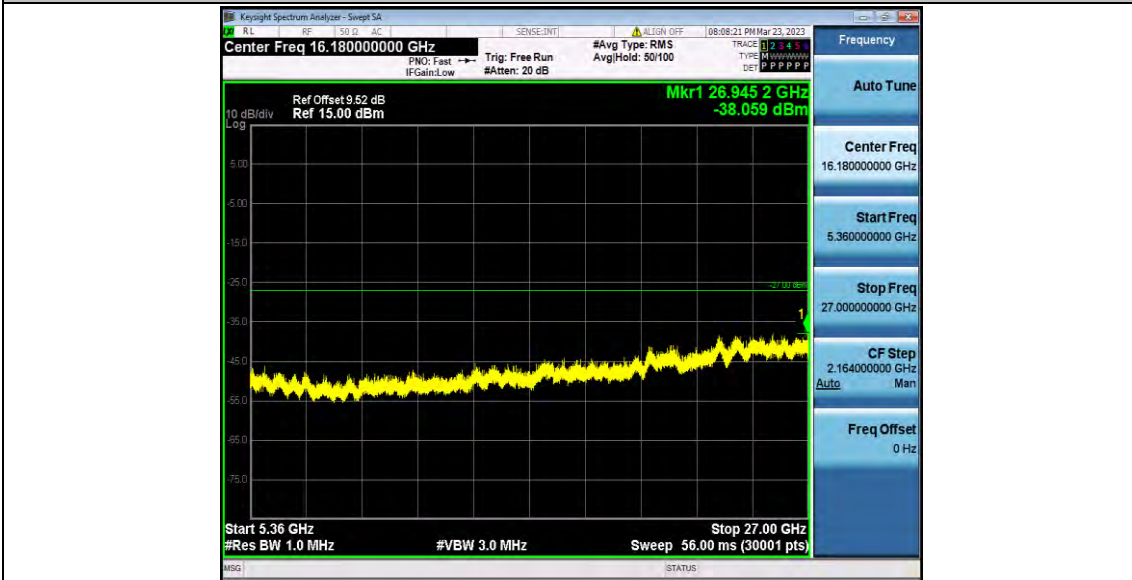


11A\_Ant1\_5200\_30~5140





11A\_Ant1\_5200\_5360~40000

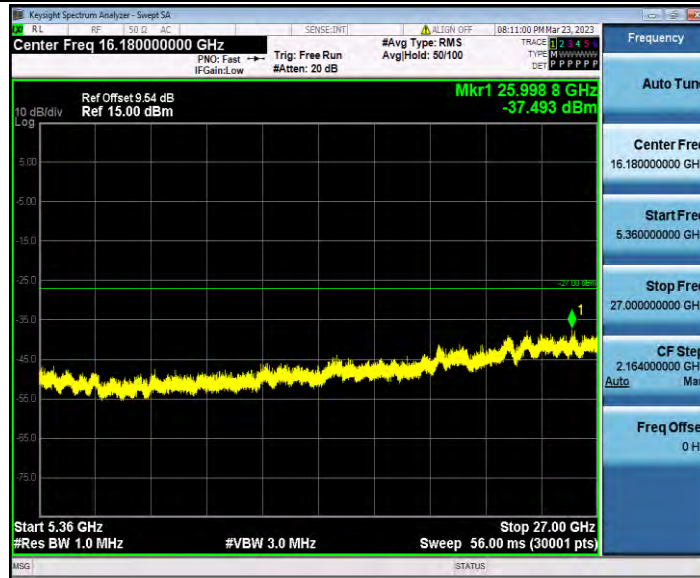


11A\_Ant1\_5240\_30~5140

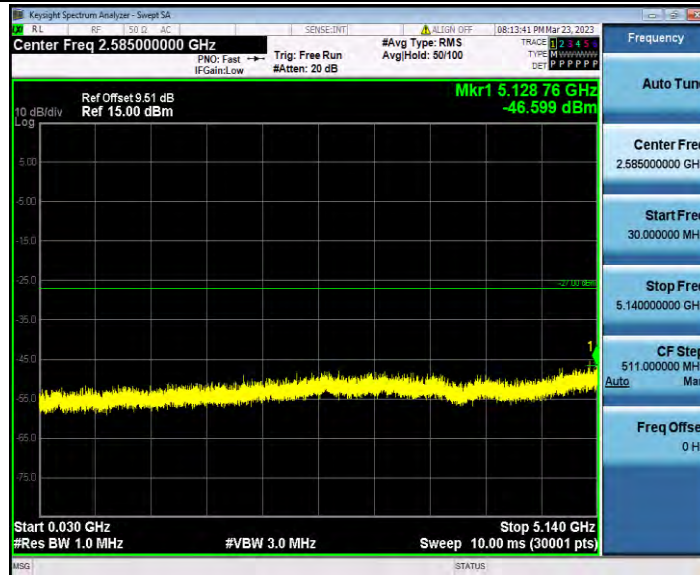




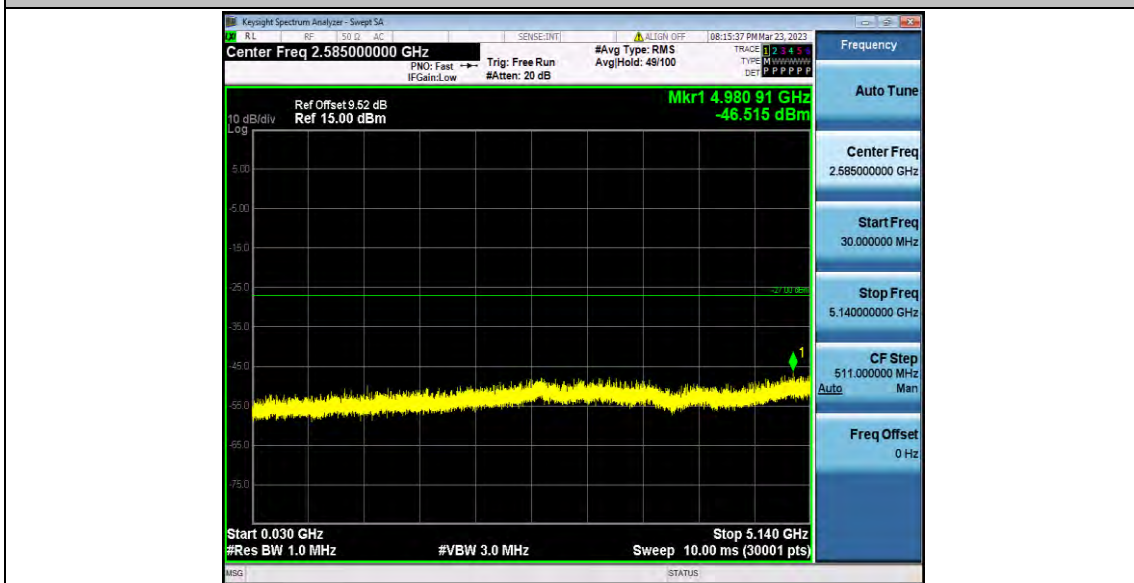
11A\_Ant1\_5240\_5360~40000



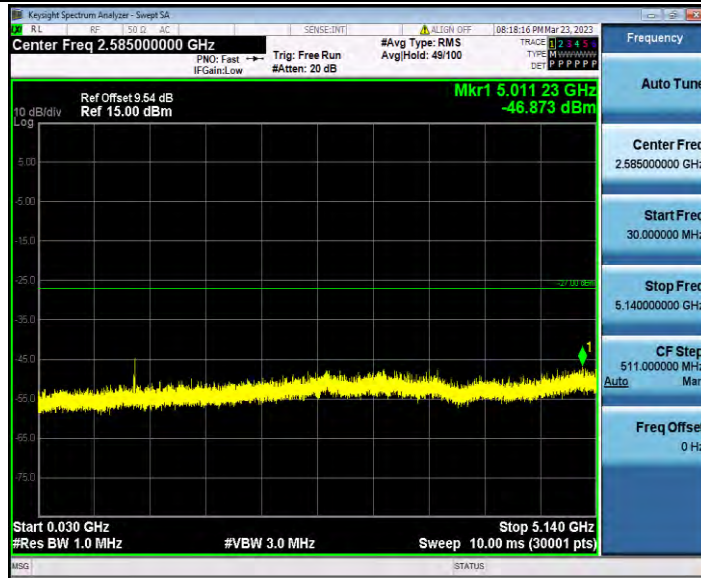
11N20SISO\_Ant1\_5180\_30~5140



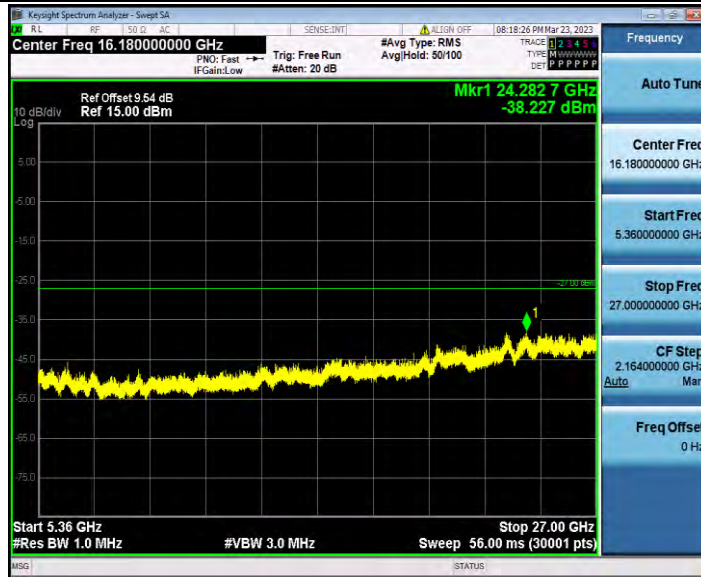
11N20SISO\_Ant1\_5180\_5360~40000



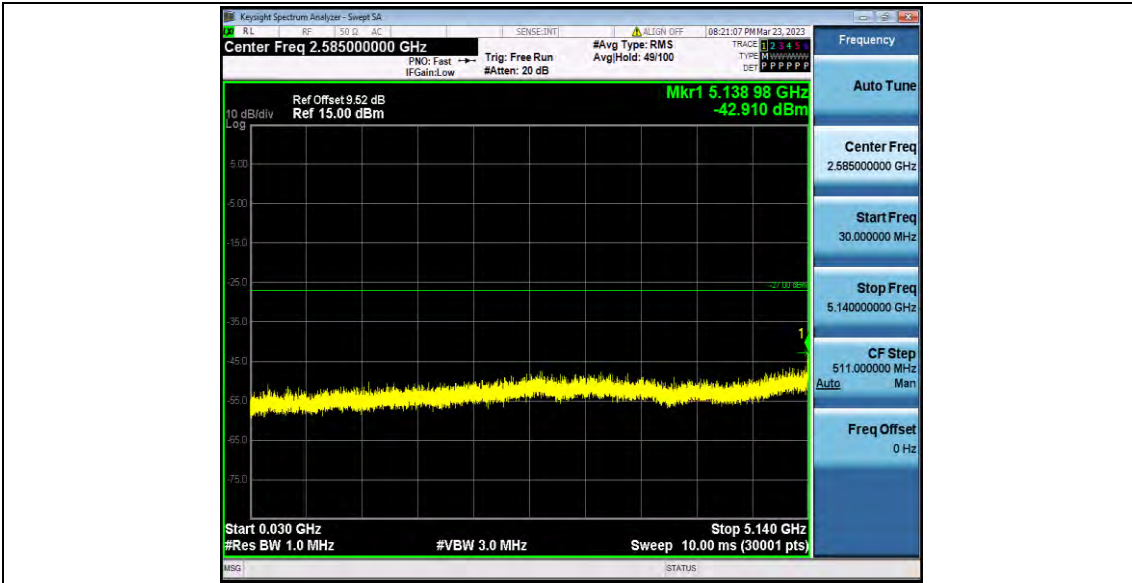
11N20SISO\_Ant1\_5240\_30~5140



11N20SISO\_Ant1\_5240\_5360~40000



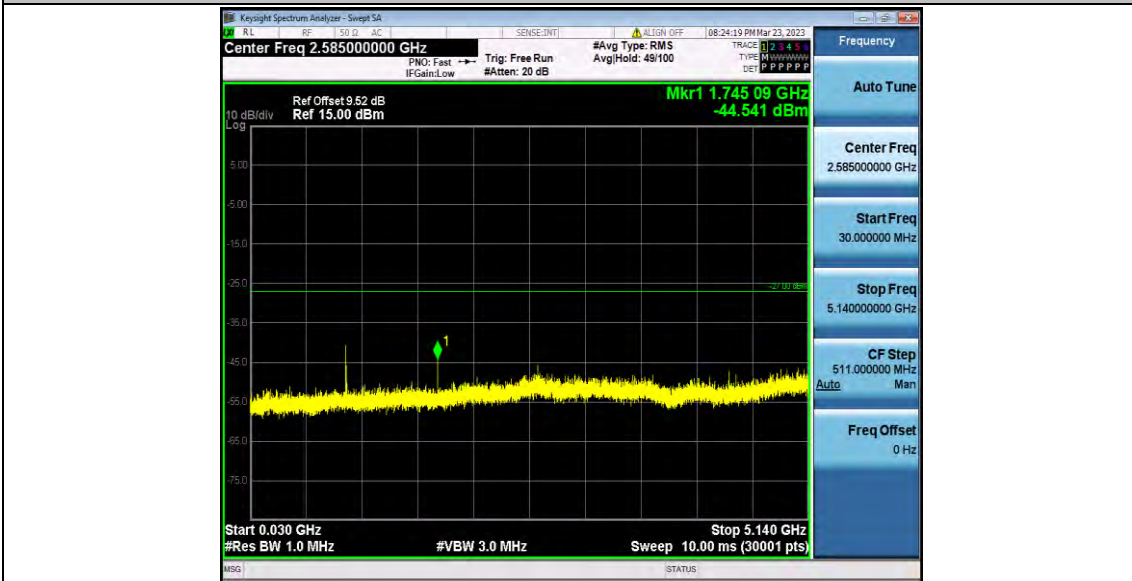
11N40SISO\_Ant1\_5190\_30~5140



11N40SISO\_Ant1\_5190\_5360~40000



11N40SISO\_Ant1\_5230\_30~5140

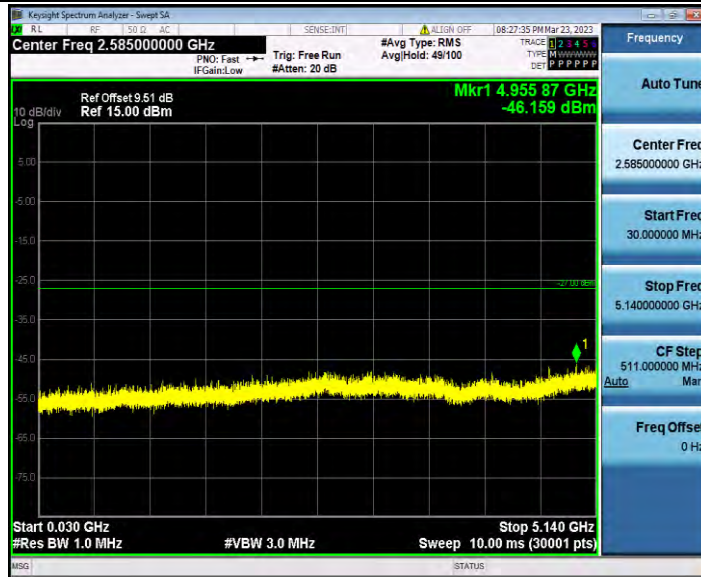




11N40SISO\_Ant1\_5230\_5360~40000

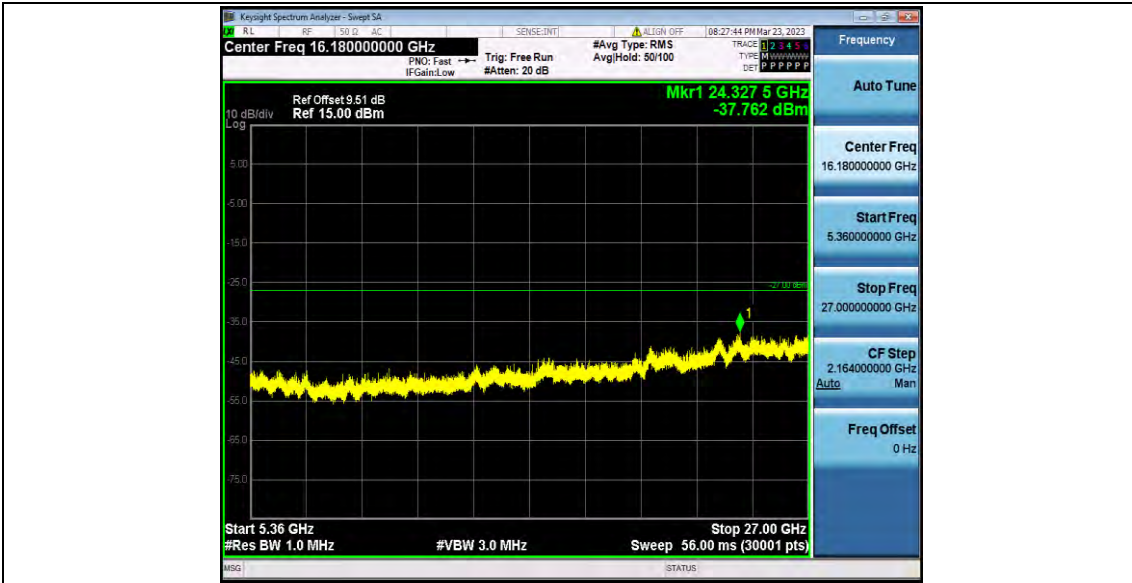


11AC20SISO\_Ant1\_5180\_30~5140



11AC20SISO\_Ant1\_5180\_5360~40000





11AC20SISO\_Ant1\_5200\_30~5140



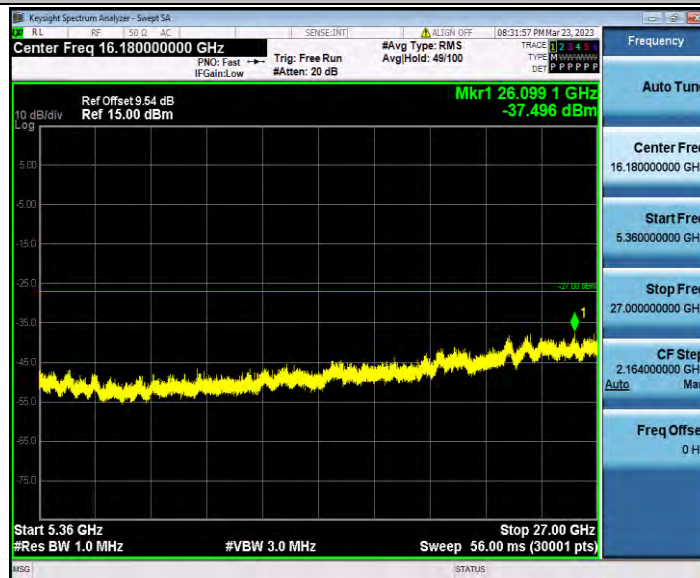
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11AC20SISO\_Ant1\_5240\_30~5140



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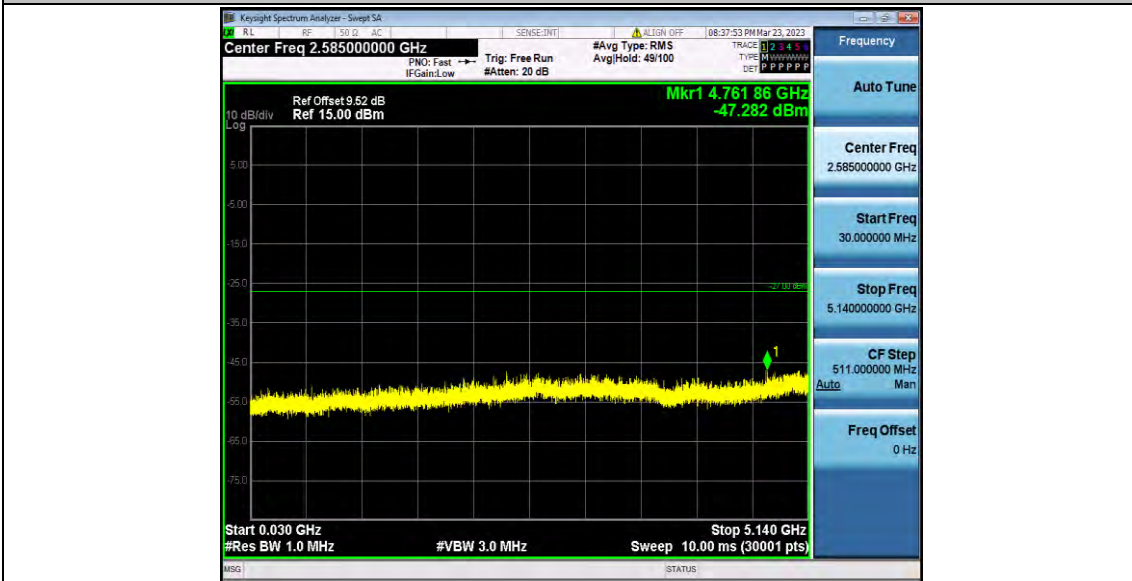
11AC40SISO\_Ant1\_5190\_30~5140



11AC40SISO\_Ant1\_5190\_5360~4000



11AC40SISO\_Ant1\_5230\_30~5140



11AC40SISO\_Ant1\_5230\_5360~40000



11AC80SISO\_Ant1\_5210\_30~5140



11AC80SISO\_Ant1\_5210\_5360~40000



