

<b>Case No. :</b> <u>GTS20231023002-1-10</u>
<b>Ambient Condition:</b> <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.11.25</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix C.1: Emission Bandwidth

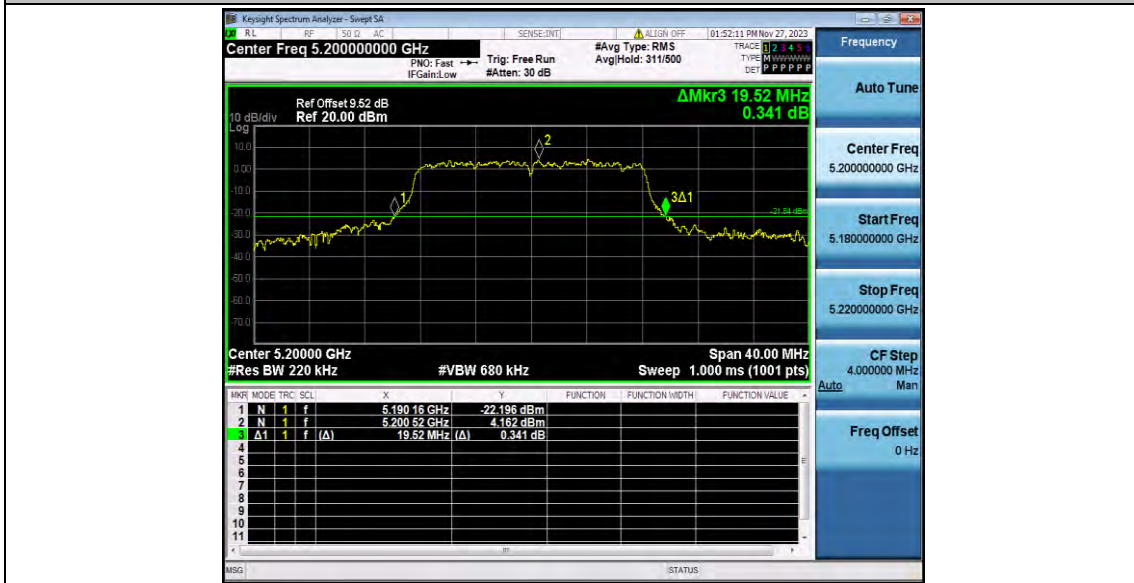
### Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.160	5170.480	5189.640	---	---
		5200	19.520	5190.160	5209.680	---	---
		5240	20.400	5230.040	5250.440	---	---
11N20SISO	Ant1	5180	20.280	5169.880	5190.160	---	---
		5200	20.640	5189.880	5210.520	---	---
		5240	20.120	5229.960	5250.080	---	---
11AC20SISO	Ant1	5180	25.880	5169.160	5195.040	---	---
		5200	27.840	5188.680	5216.520	---	---
		5240	29.160	5227.080	5256.240	---	---

## Test Graphs



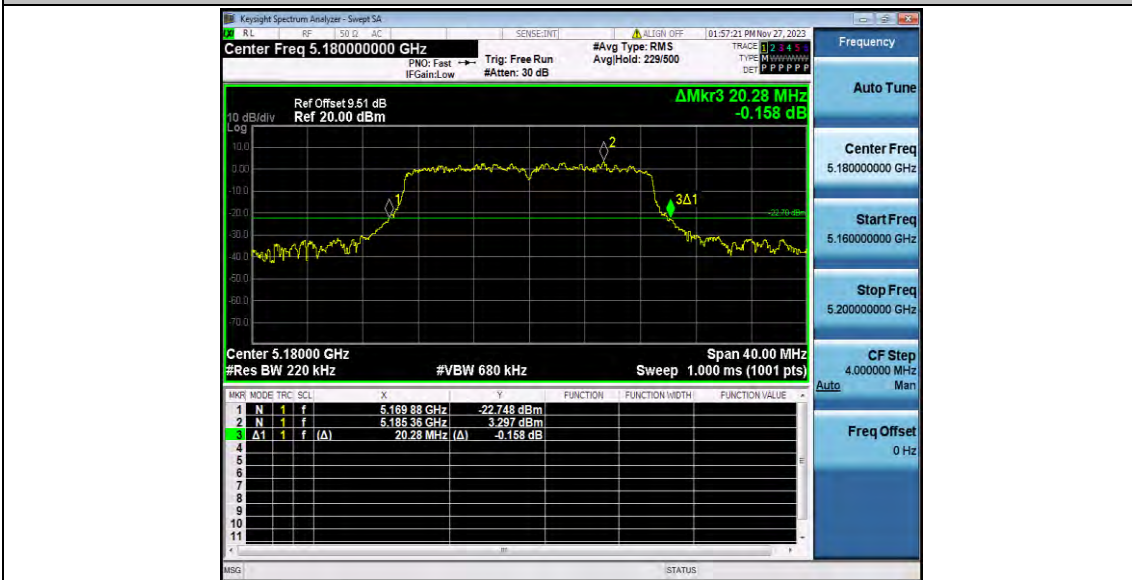
11A\_Ant1\_5180



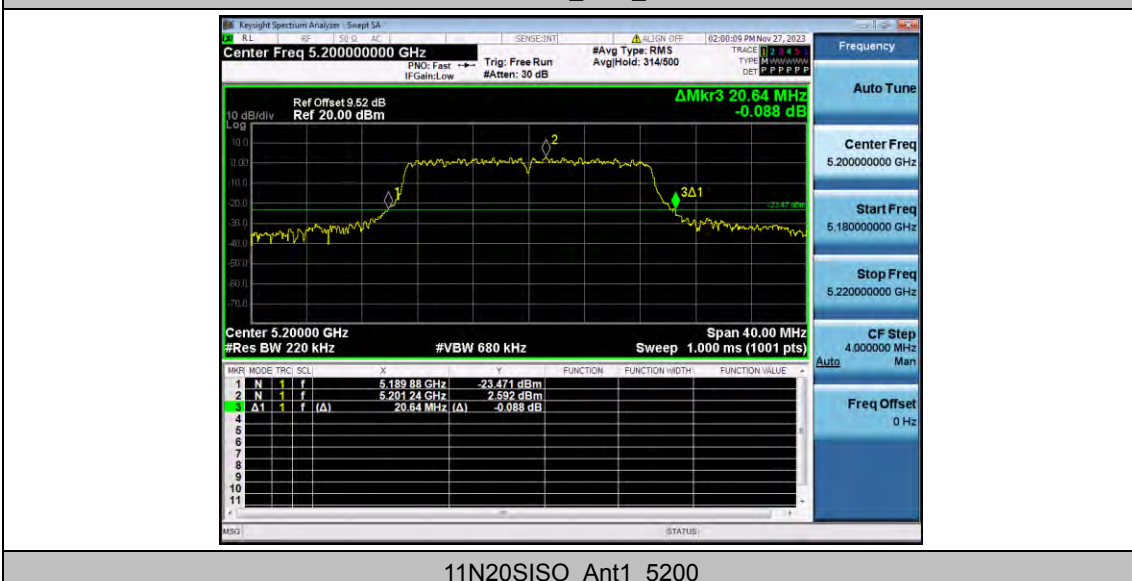
11A\_Ant1\_5200



11A\_Ant1\_5240



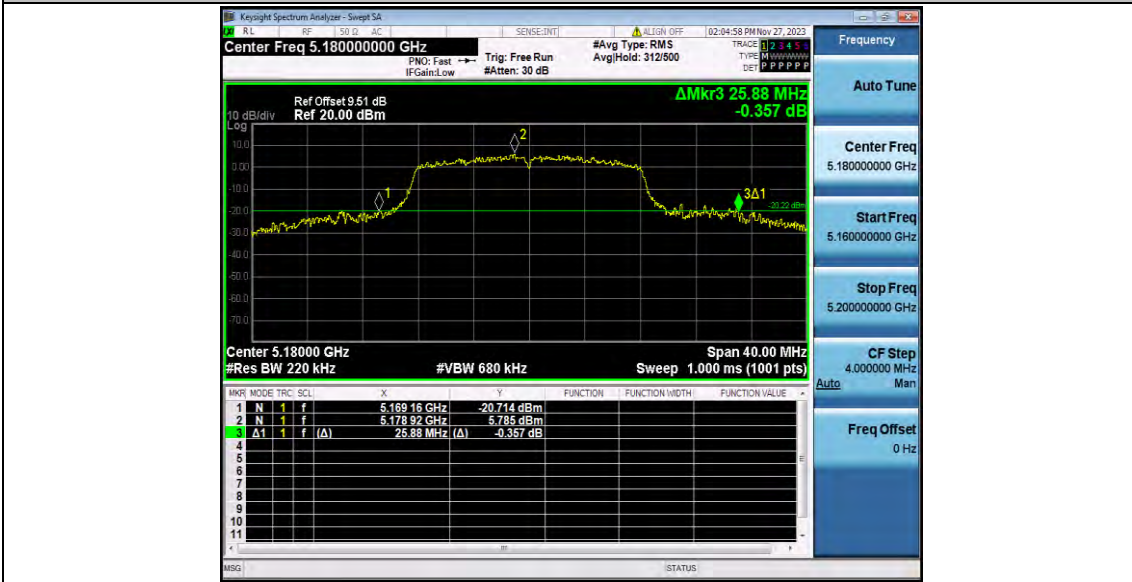
11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



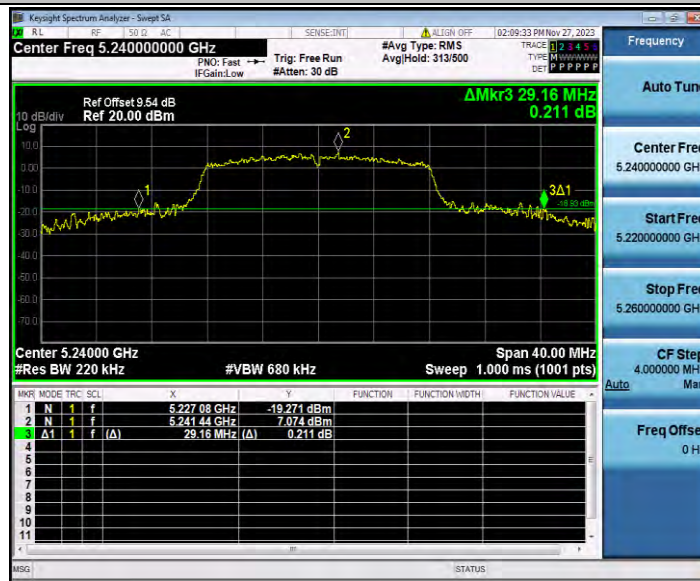
11N20SISO\_Ant1\_5240



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240

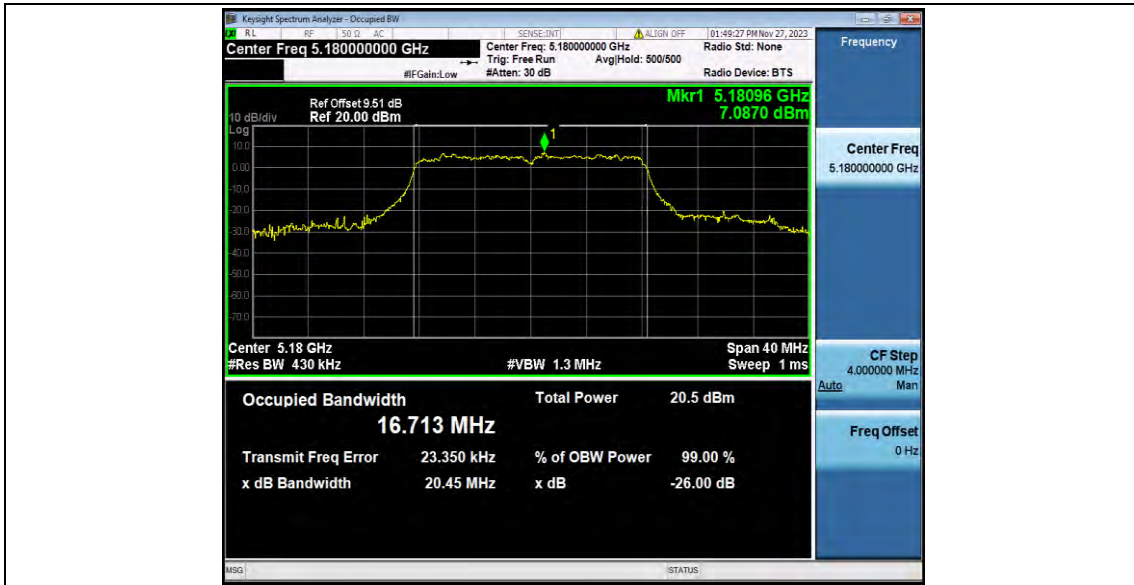
## Appendix C.2: Occupied channel bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.713	5171.667	5188.380	---	---
		5200	16.737	5191.571	5208.308	---	---
		5240	16.810	5231.568	5248.378	---	---
11N20SISO	Ant1	5180	17.775	5171.055	5188.830	---	---
		5200	17.800	5191.120	5208.920	---	---
		5240	17.746	5231.063	5248.809	---	---
11AC20SISO	Ant1	5180	16.943	5171.510	5188.453	---	---
		5200	17.085	5191.470	5208.555	---	---
		5240	17.302	5231.389	5248.691	---	---



## Test Graphs



11A\_Ant1\_5180



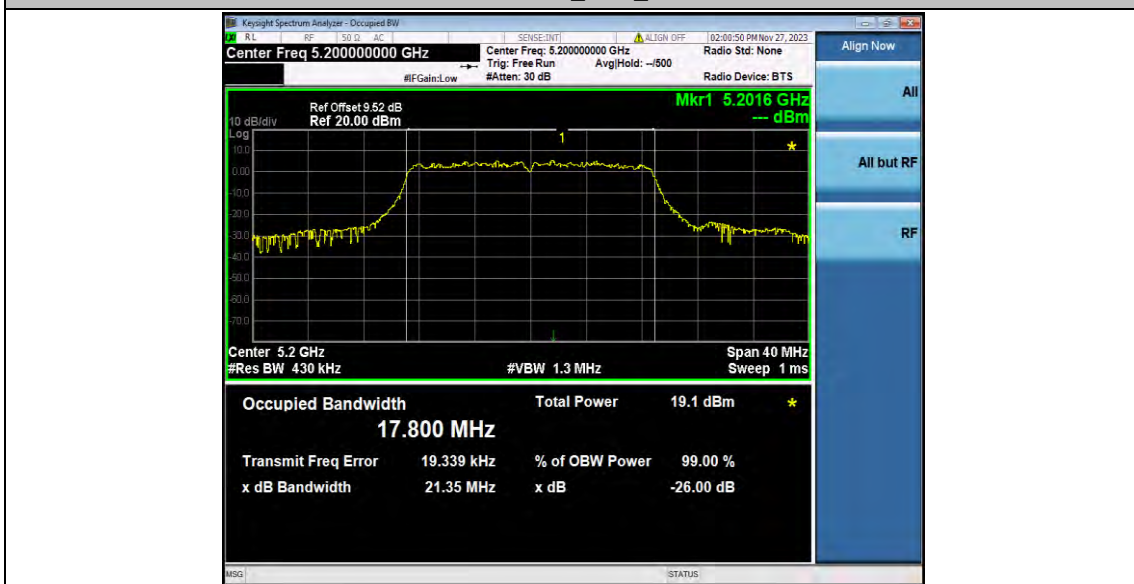
11A\_Ant1\_5200



11A\_Ant1\_5240



11N20SISO\_Ant1\_5180

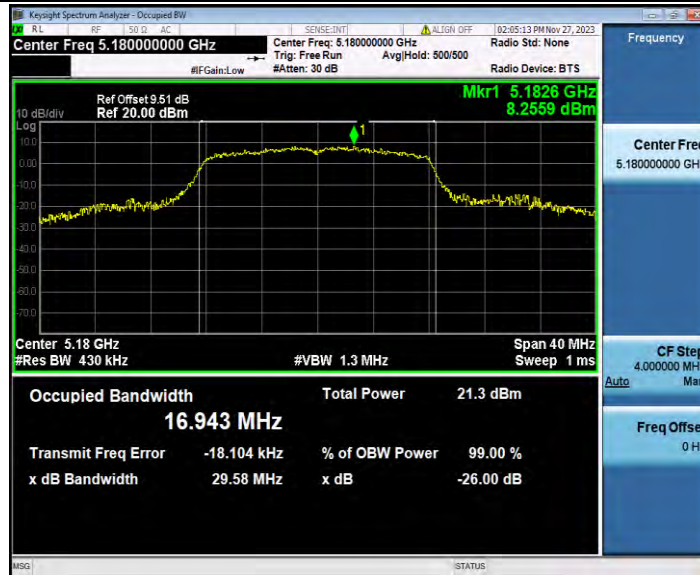




11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



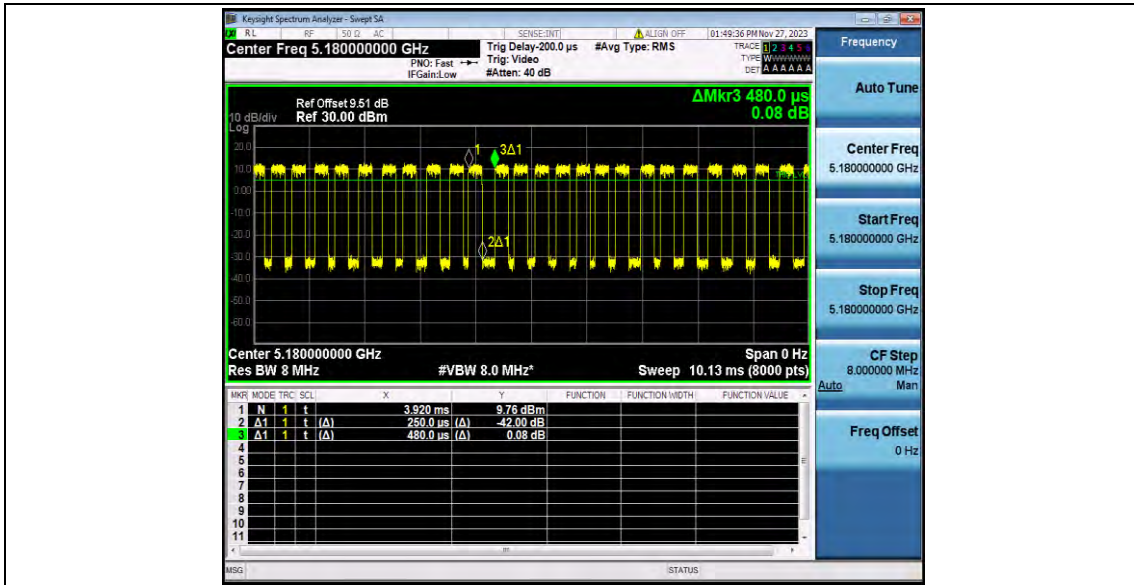
11AC20SISO\_Ant1\_5240

## Appendix C.3: Duty Cycle

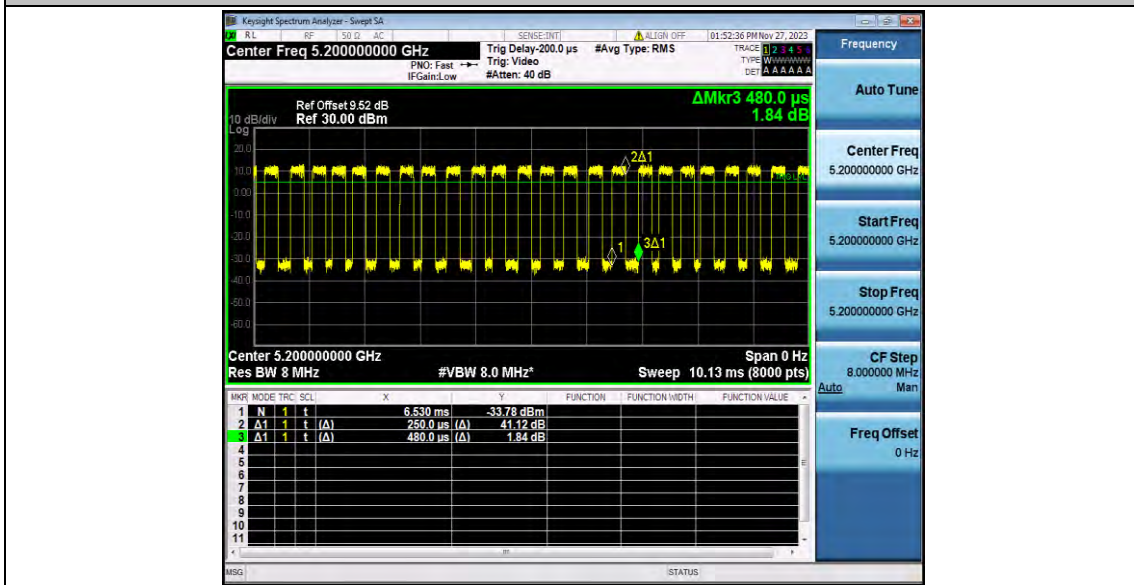
### Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.25	0.48	52.08
		5200	0.25	0.48	52.08
		5240	0.25	0.48	52.08
11N20SISO	Ant1	5180	0.23	0.46	50.00
		5200	0.23	0.46	50.00
		5240	0.23	0.46	50.00
11AC20SISO	Ant1	5180	2.07	2.54	81.50
		5200	2.06	2.53	81.42
		5240	2.06	2.49	82.73

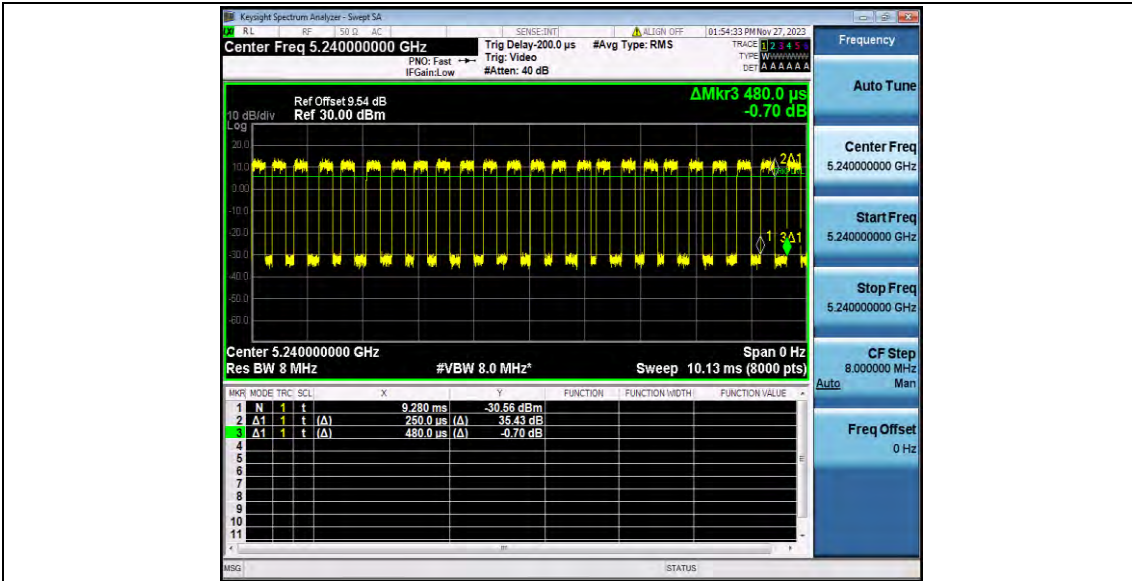
## Test Graphs



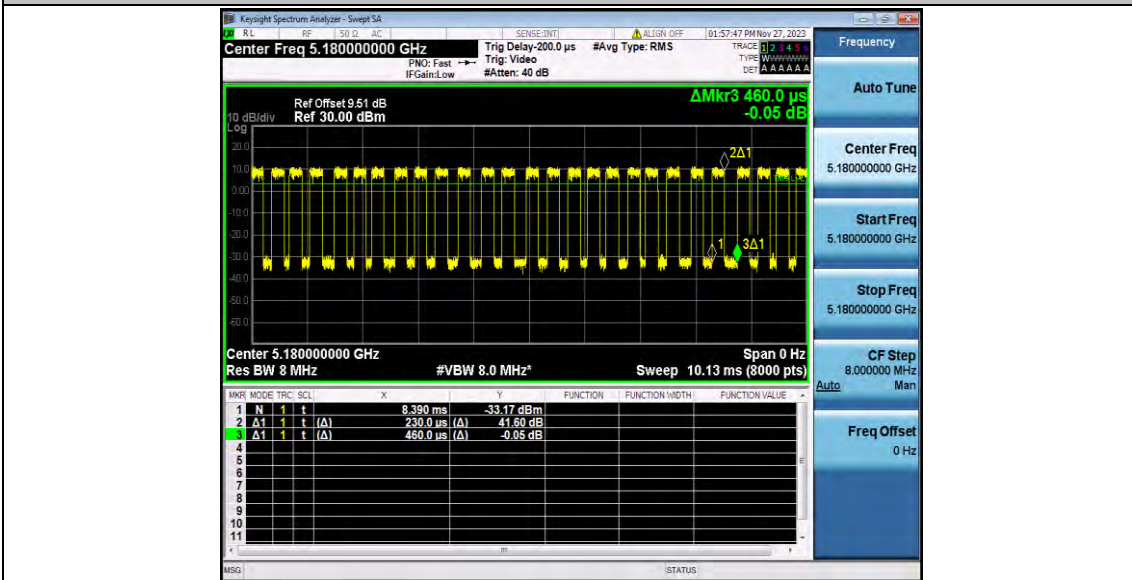
11A\_Ant1\_5180



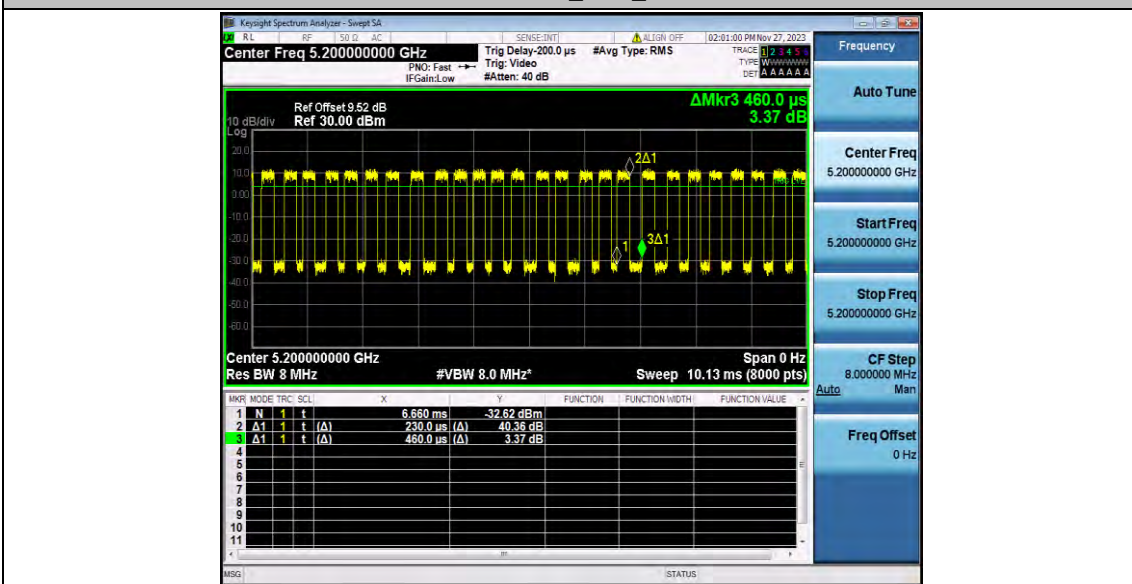
11A\_Ant1\_5200



11A\_Ant1\_5240

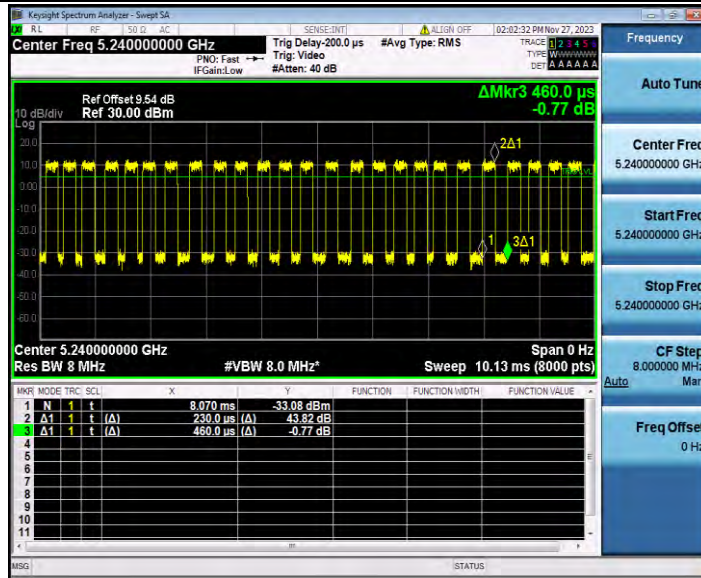


11N20SISO\_Ant1\_5180

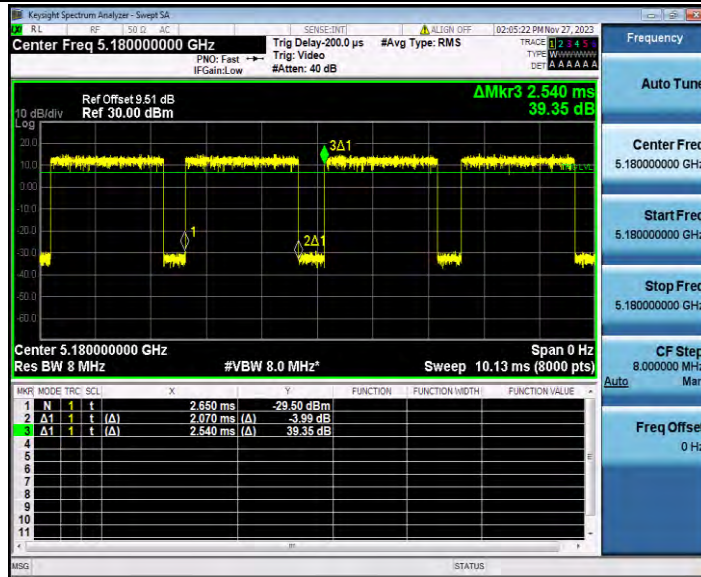




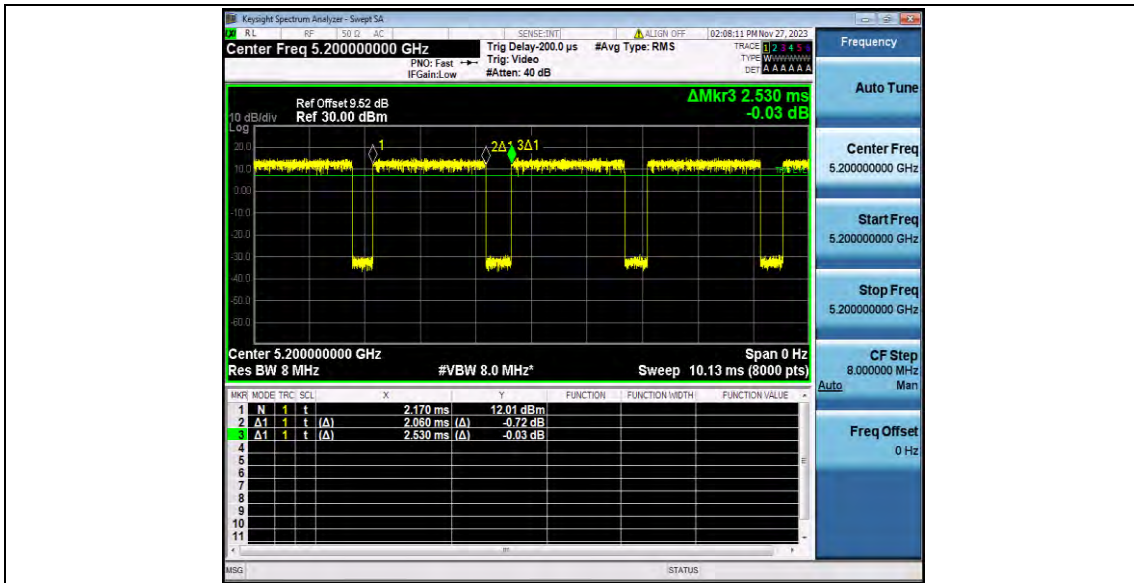
11N20SISO\_Ant1\_5200



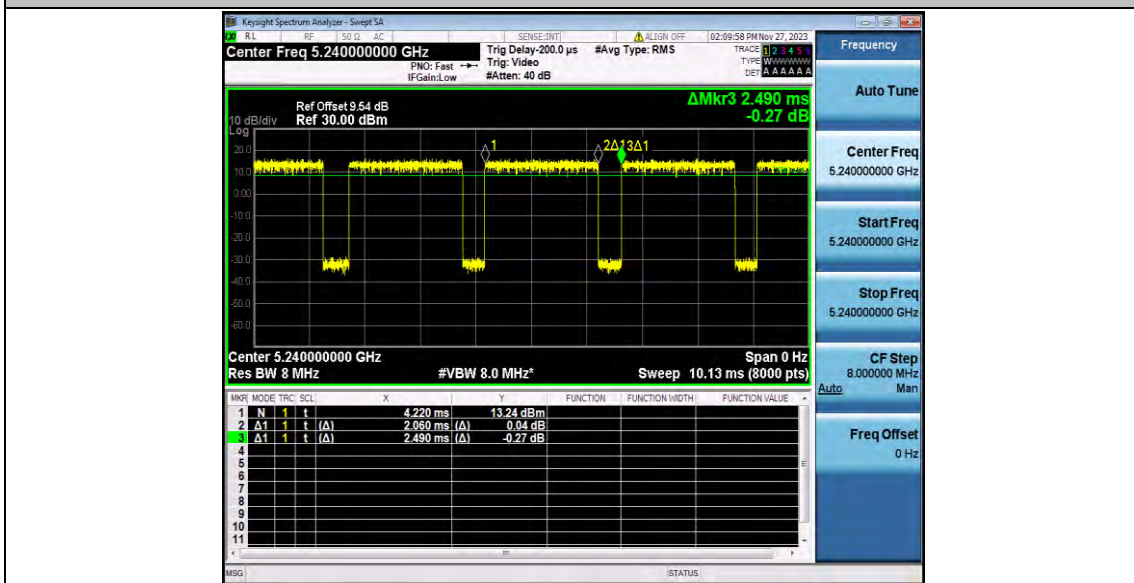
11N20SISO\_Ant1\_5240



11A20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240

## Appendix C.4: Maximum conducted output power

### Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.25	52.08	2.83	14.08	≤23.98	PASS
		5200	11.49	52.08	2.83	14.32	≤23.98	PASS
		5240	11.91	52.08	2.83	14.74	≤23.98	PASS
11N20SISO	Ant1	5180	9.88	50.00	3.01	12.89	≤23.98	PASS
		5200	10.21	50.00	3.01	13.22	≤23.98	PASS
		5240	10.79	50.00	3.01	13.80	≤23.98	PASS
11AC20SISO	Ant1	5180	13.79	81.50	0.89	14.68	≤23.98	PASS
		5200	14.04	81.42	0.89	14.93	≤23.98	PASS
		5240	14.69	82.73	0.82	15.51	≤23.98	PASS

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

## Appendix C.5: Maximum power spectral density

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.43	≤11.00	PASS
		5200	3.75	≤11.00	PASS
		5240	4.36	≤11.00	PASS
11N20SISO	Ant1	5180	1.99	≤11.00	PASS
		5200	2.27	≤11.00	PASS
		5240	2.94	≤11.00	PASS
11AC20SISO	Ant1	5180	4.81	≤11.00	PASS
		5200	5.24	≤11.00	PASS
		5240	5.96	≤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

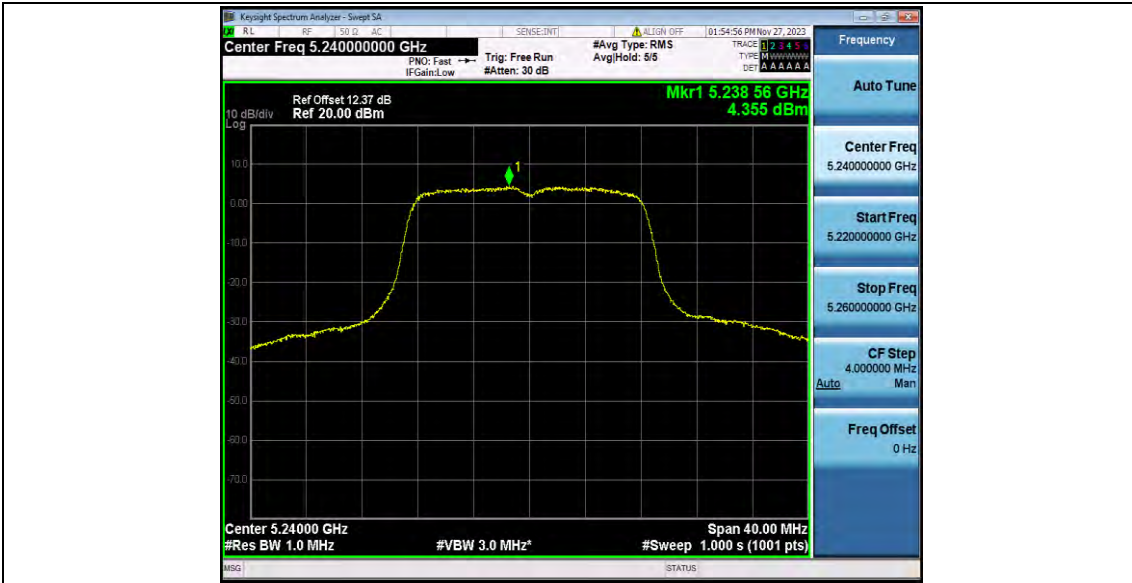


11A\_Ant1\_5180

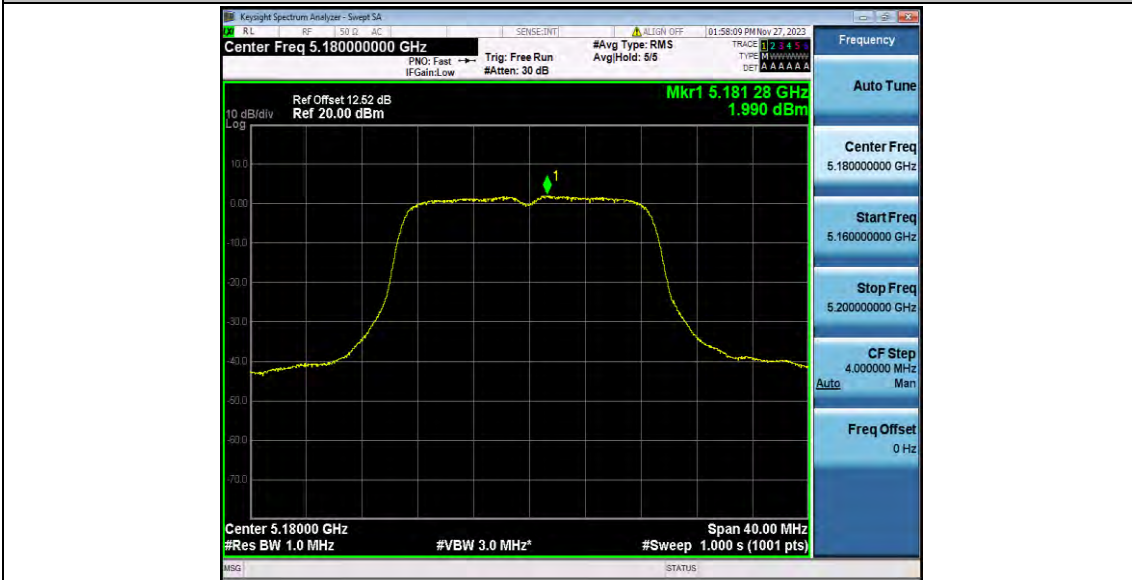


11A\_Ant1\_5200

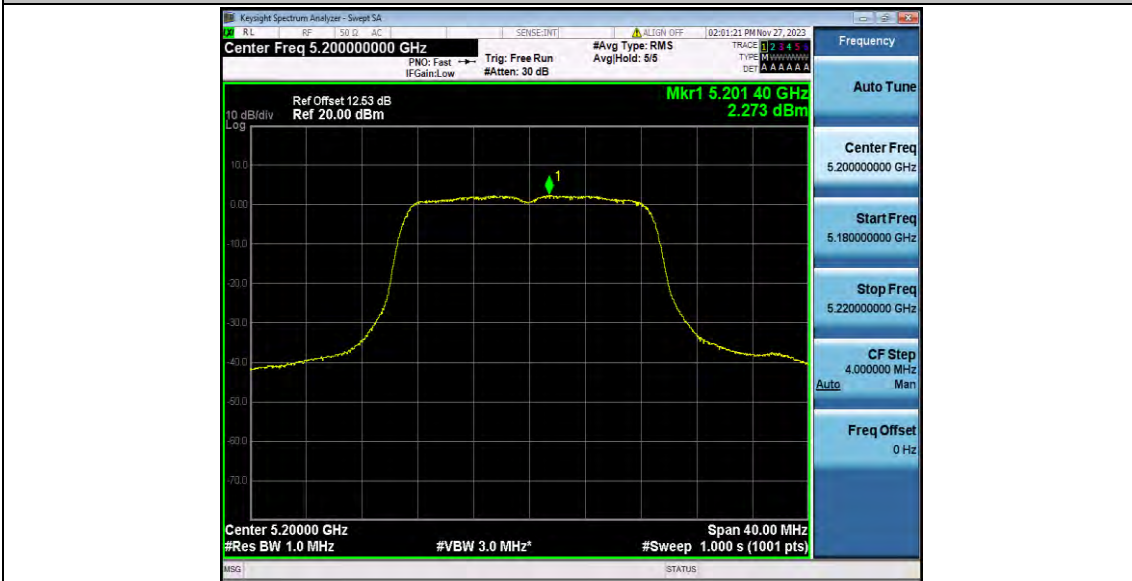




11A\_Ant1\_5240



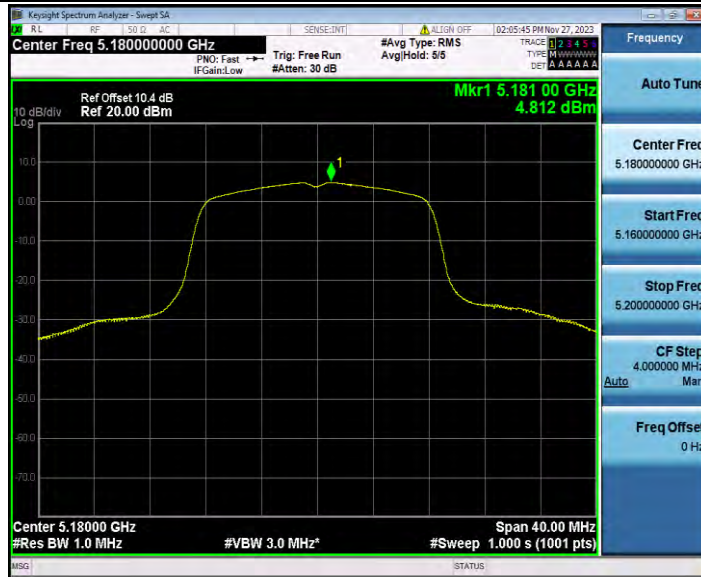
11N20SISO\_Ant1\_5180



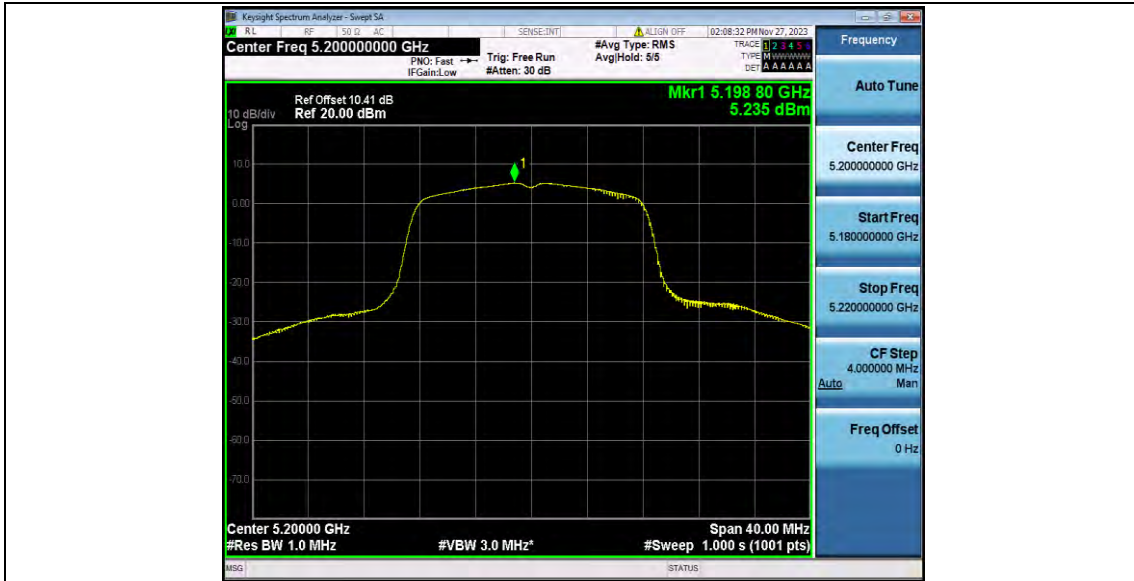
11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



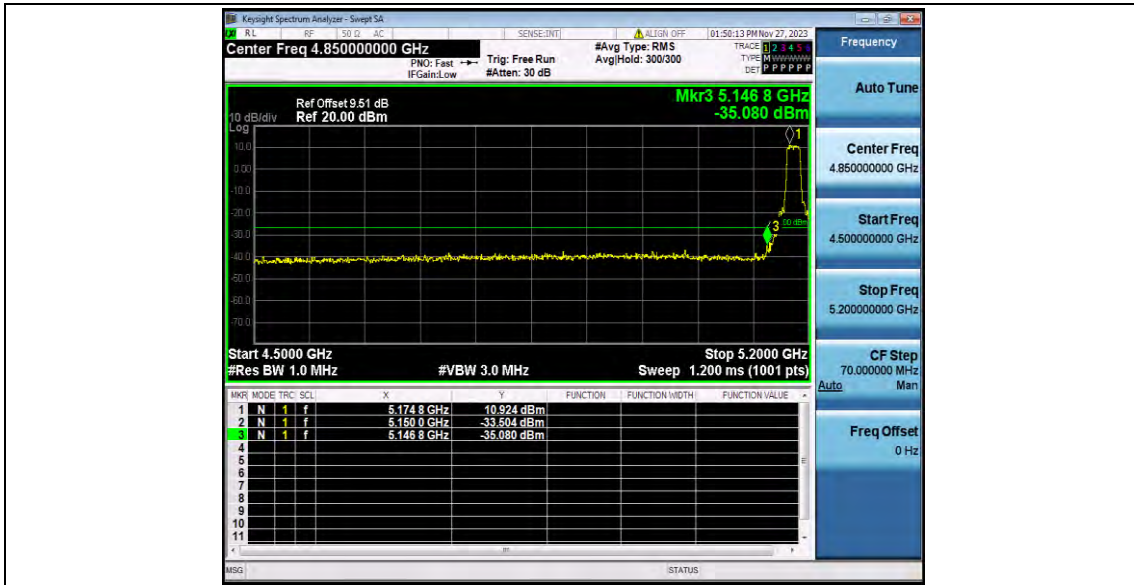
11AC20SISO\_Ant1\_5240

## Appendix C.6: Band edge measurements

### Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-35.08	$\leq -27$	PASS
		High	5240	-37.9	$\leq -27$	PASS
11N20SISO	Ant1	Low	5180	-36.49	$\leq -27$	PASS
		High	5240	-38.39	$\leq -27$	PASS
11AC20SISO	Ant1	Low	5180	-31.95	$\leq -27$	PASS
		High	5240	-38.12	$\leq -27$	PASS

### Test Graphs B1



11A\_Ant1\_Low\_5180

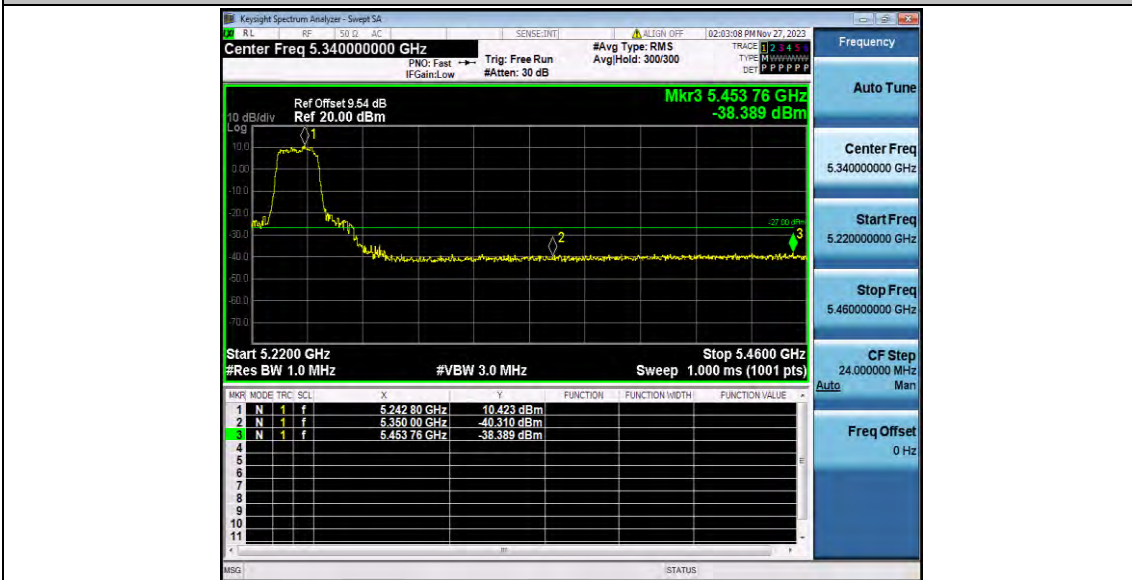


11A\_Ant1\_High\_5240

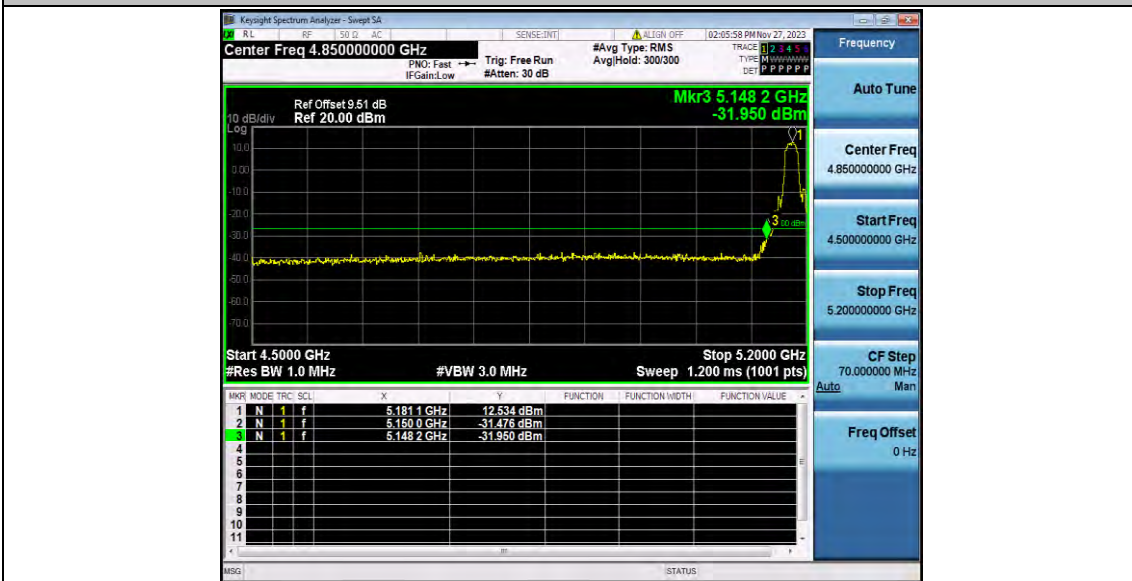




11N20SISO\_Ant1\_Low\_5180



11N20SISO\_Ant1\_High\_5240



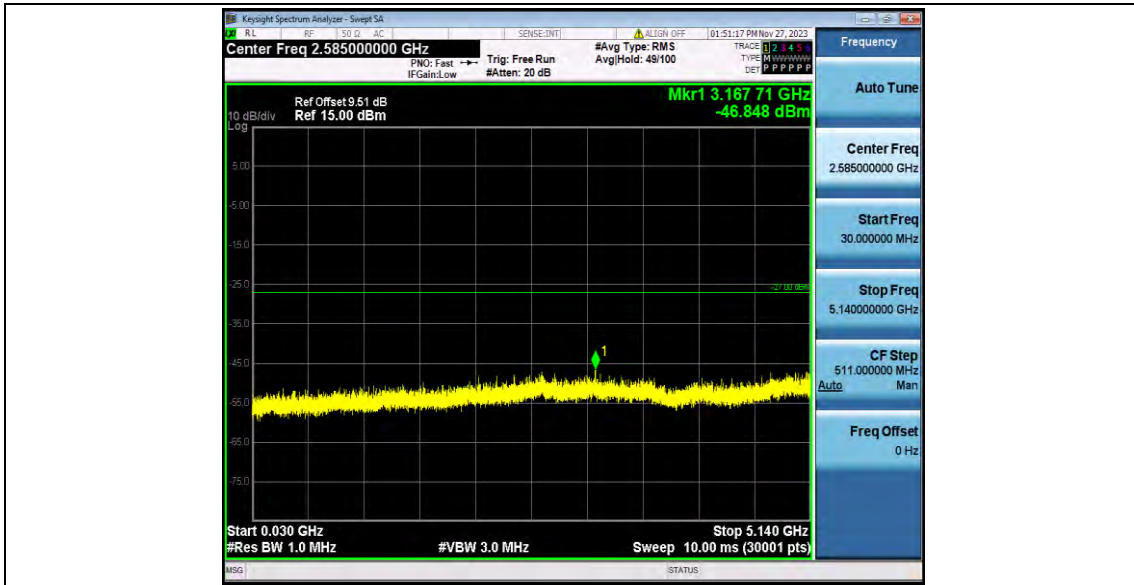


## Appendix C.7: Conducted Spurious Emission

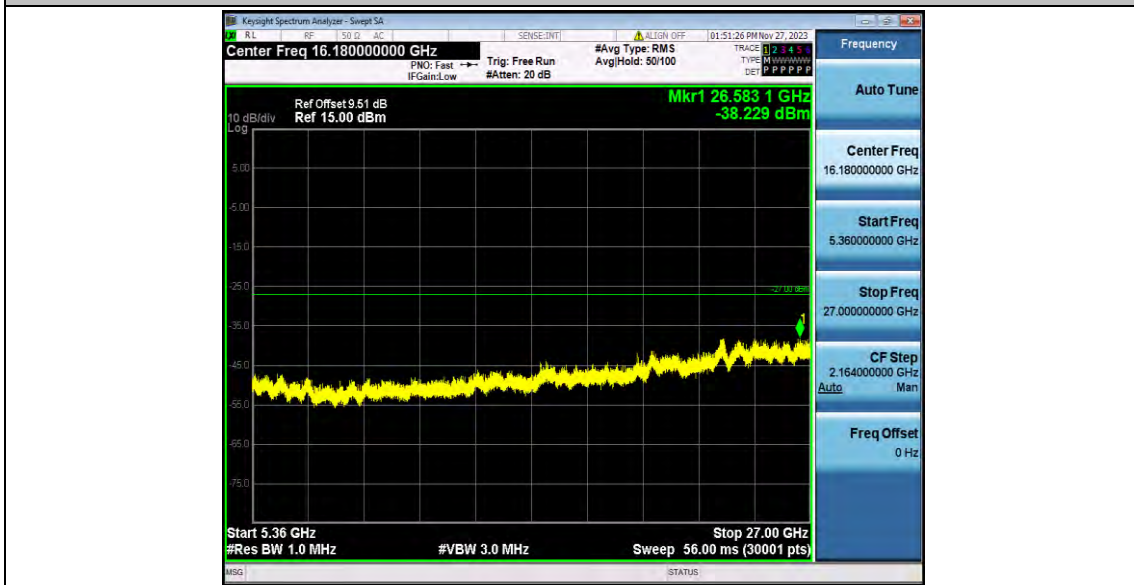
### Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	3167.71	-46.85	≤-27	PASS
			5360~40000	26583.07	-38.23	≤-27	PASS
		5200	30~5140	2660.63	-46.82	≤-27	PASS
			5360~40000	24271.92	-38.24	≤-27	PASS
		5240	30~5140	2322.52	-45.46	≤-27	PASS
			5360~40000	24972.33	-38.05	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5113.6	-46.45	≤-27	PASS
			5360~40000	26932.19	-38.19	≤-27	PASS
		5200	30~5140	4989.26	-46.68	≤-27	PASS
			5360~40000	24826.62	-37.92	≤-27	PASS
		5240	30~5140	4945.48	-46.96	≤-27	PASS
			5360~40000	26559.27	-38	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5140	-40.85	≤-27	PASS
			5360~40000	26841.31	-38.08	≤-27	PASS
		5200	30~5140	5007.48	-46.01	≤-27	PASS
			5360~40000	24280.57	-37.79	≤-27	PASS
		5240	30~5140	2503.41	-46.62	≤-27	PASS
			5360~40000	24877.84	-37.86	≤-27	PASS

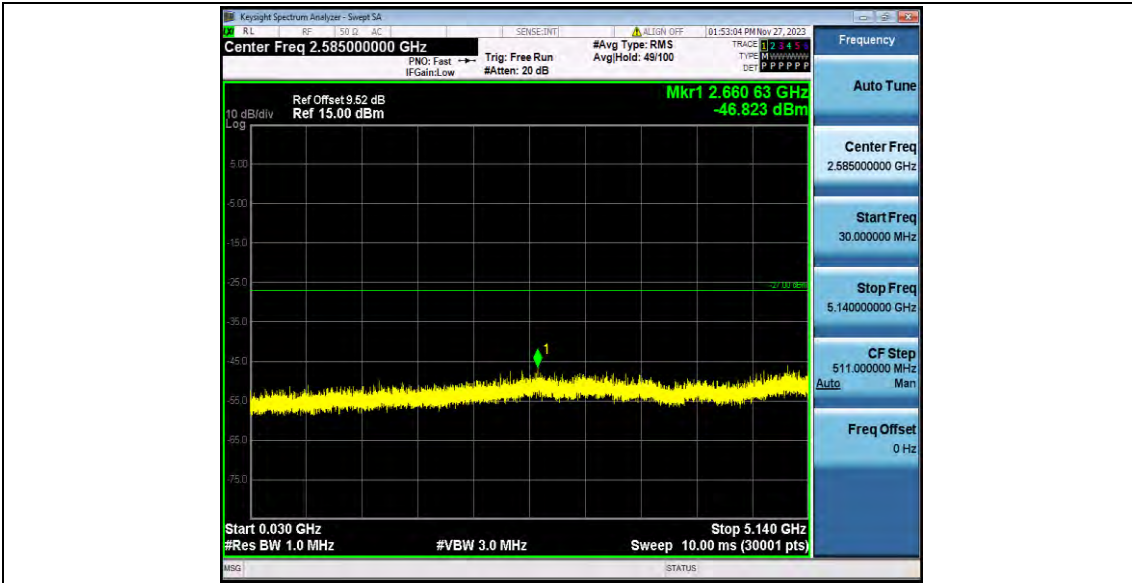
## Test Graphs



11A\_Ant1\_5180\_30~5140



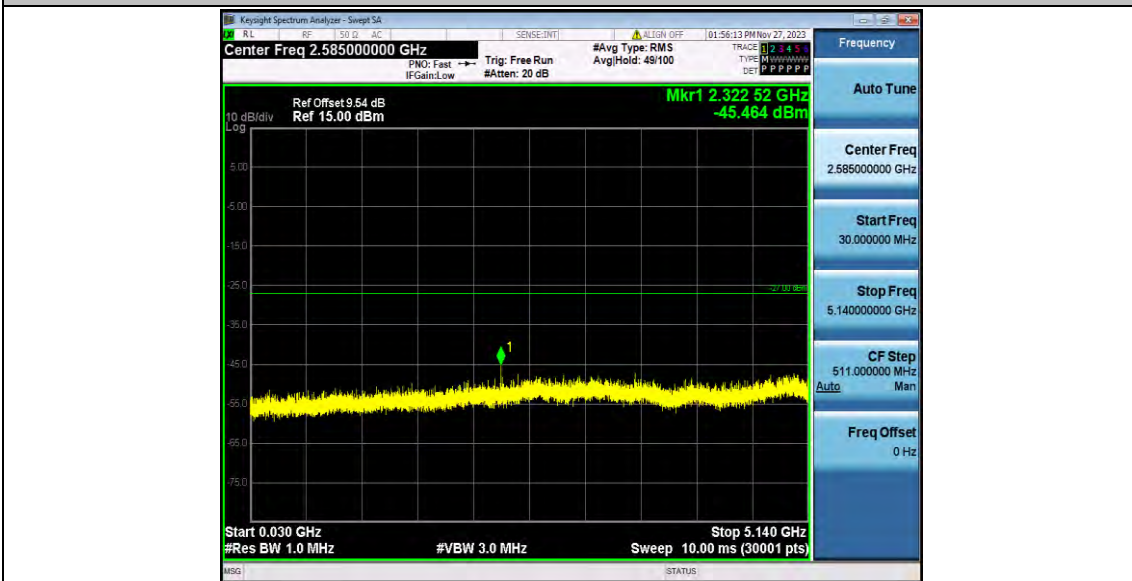
11A\_Ant1\_5180\_5360~40000



11A\_Ant1\_5200\_30~5140

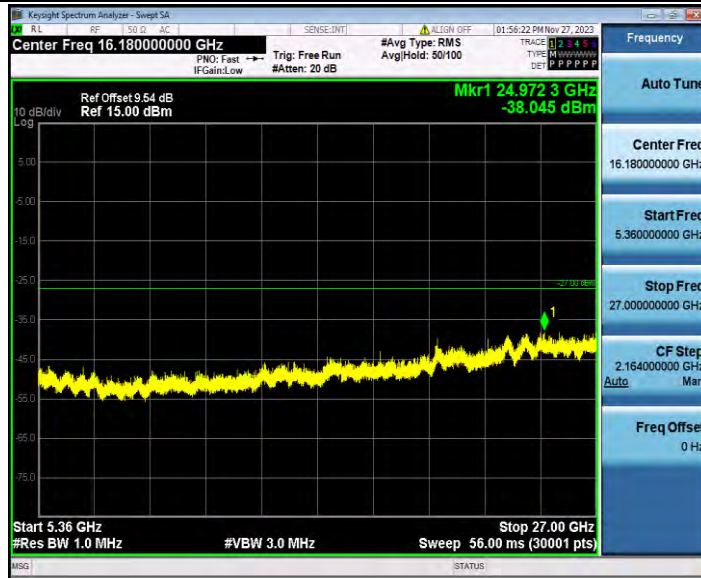


11A\_Ant1\_5200\_5360~40000

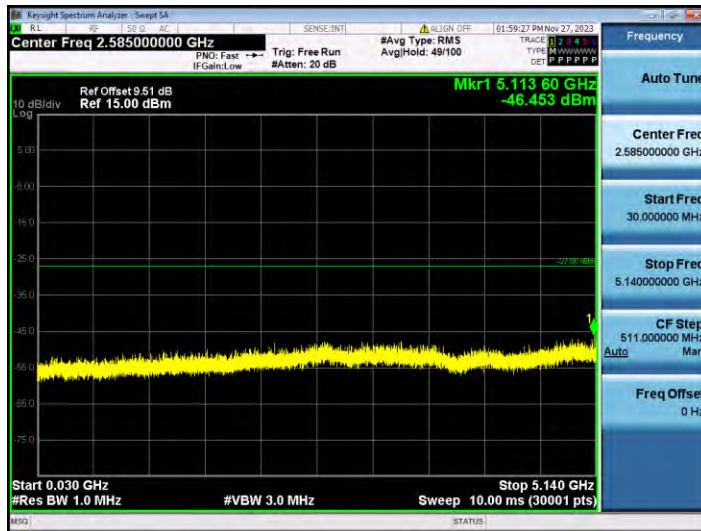




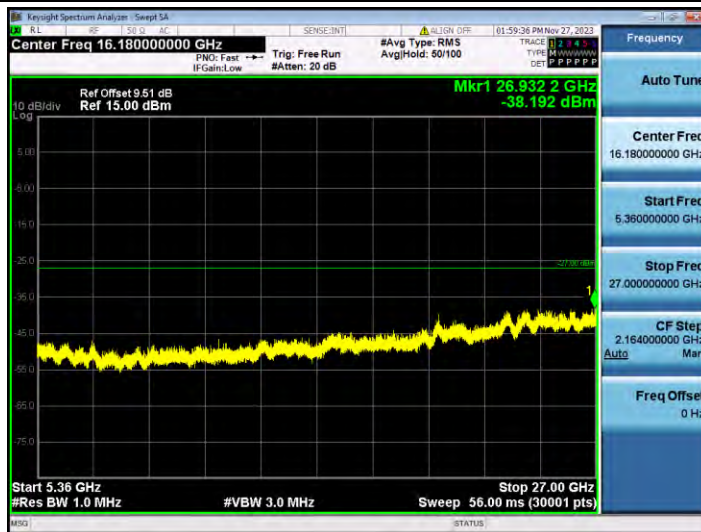
11A\_Ant1\_5240\_30~5140



11A\_Ant1\_5240\_5360~40000

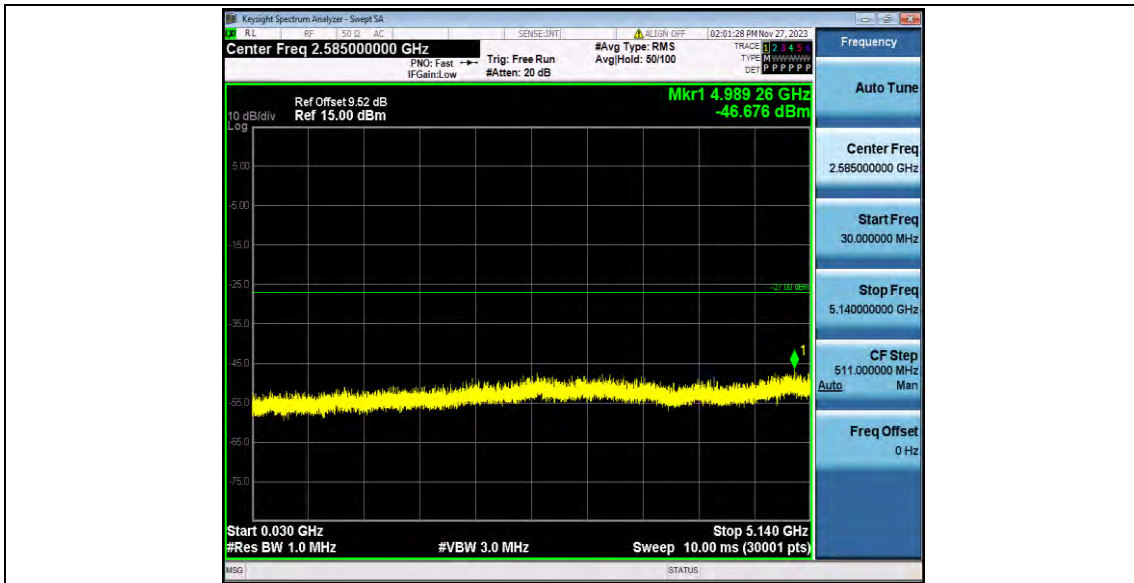


11N20SISO\_Ant1\_5180\_30~5140



11N20SISO\_Ant1\_5180\_5360~40000





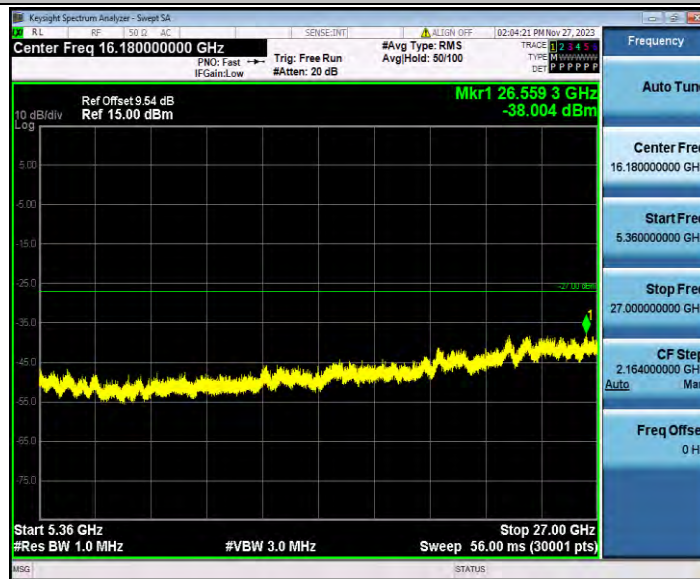
11N20SISO\_Ant1\_5200\_30~5140



11N20SISO\_Ant1\_5200\_5360~40000



11N20SISO\_Ant1\_5240\_30~5140



11N20SISO\_Ant1\_5240\_5360~40000



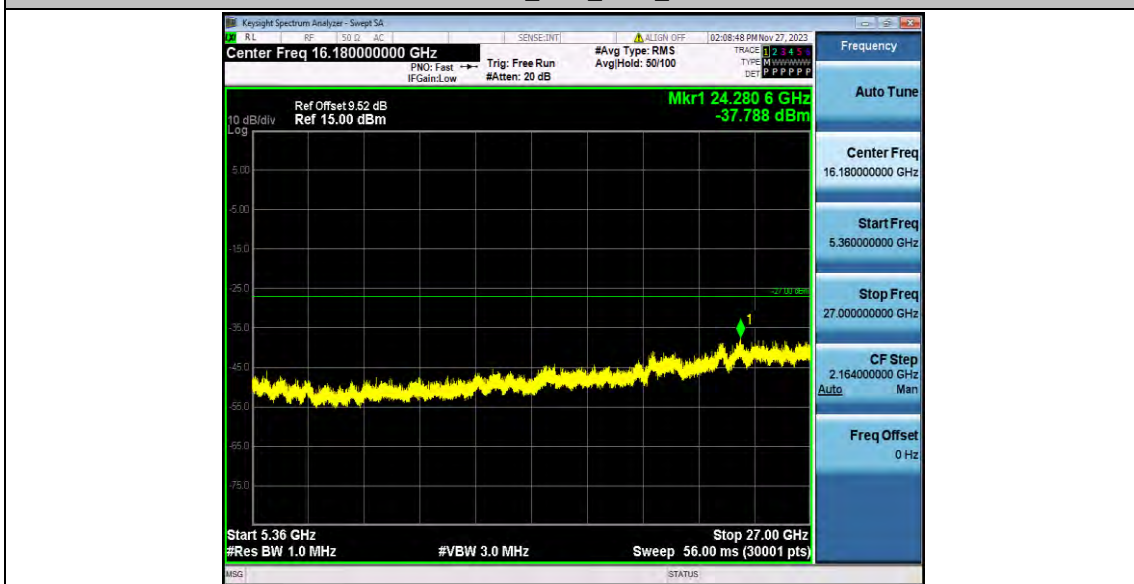
11AC20SISO\_Ant1\_5180\_30~5140



11AC20SISO\_Ant1\_5180\_5360~40000



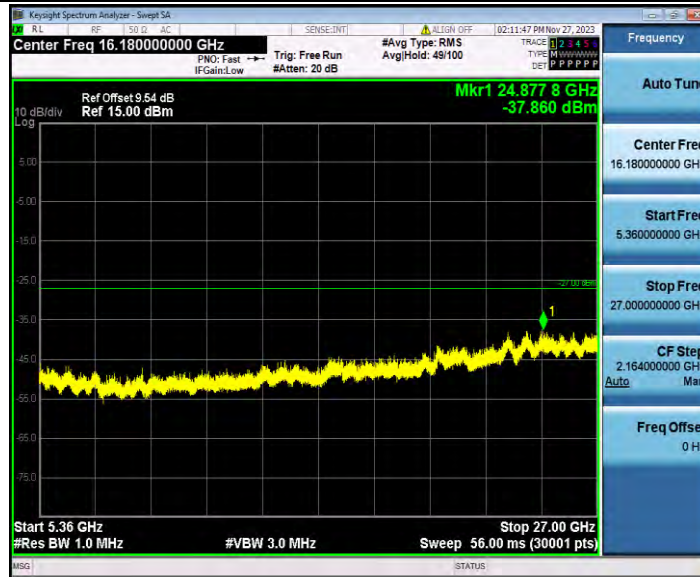
11AC20SISO\_Ant1\_5200\_30~5140



11AC20SISO\_Ant1\_5200\_5360~40000



11AC20SISO\_Ant1\_5240\_30~5140



11AC20SISO\_Ant1\_5240\_5360~40000

## Appendix C.8: Emissions in Restricted Bands

### Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-47.63	≤-41.20	47.57	≤54	PASS
				AV	4934.700	-44.64	≤-41.20	50.56	≤54	PASS
				AV	5150.000	-43.85	≤-41.20	51.35	≤54	PASS
				Peak	4500.000	-43.17	≤-21.20	52.03	≤74	PASS
				Peak	4672.200	-36.65	≤-21.20	58.55	≤74	PASS
				Peak	5150.000	-41.12	≤-21.20	54.08	≤74	PASS
		High	5240	AV	5350.000	-46.12	≤-41.20	49.08	≤54	PASS
				AV	5445.120	-44.8	≤-41.20	50.40	≤54	PASS
				AV	5460.000	-46.1	≤-41.20	49.10	≤54	PASS
				Peak	5350.000	-45.43	≤-21.20	49.77	≤74	PASS
				Peak	5436.480	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	5460.000	-39.42	≤-21.20	55.78	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-47.7	≤-41.20	47.50	≤54	PASS
				AV	4953.600	-44.45	≤-41.20	50.75	≤54	PASS
				AV	5150.000	-46.19	≤-41.20	49.01	≤54	PASS
				Peak	4500.000	-43.55	≤-21.20	51.65	≤74	PASS
				Peak	4788.400	-37.85	≤-21.20	57.35	≤74	PASS
				Peak	5150.000	-41.89	≤-21.20	53.31	≤74	PASS
		High	5240	AV	5350.000	-46.68	≤-41.20	48.52	≤54	PASS
				AV	5421.120	-45	≤-41.20	50.20	≤54	PASS
				AV	5460.000	-45.42	≤-41.20	49.78	≤54	PASS
				Peak	5350.000	-45.92	≤-21.20	49.28	≤74	PASS
				Peak	5448.000	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	5460.000	-44.92	≤-21.20	50.28	≤74	PASS
11AC20SI SO	Ant1	Low	5180	AV	4500.000	-48.19	≤-41.20	47.01	≤54	PASS
				AV	5149.600	-43.24	≤-41.20	51.96	≤54	PASS
				AV	5150.000	-42.82	≤-41.20	52.38	≤54	PASS
				Peak	4500.000	-45.47	≤-21.20	49.73	≤74	PASS
				Peak	4981.600	-37.47	≤-21.20	57.73	≤74	PASS
				Peak	5150.000	-41.37	≤-21.20	53.83	≤74	PASS
		High	5240	AV	5350.000	-46.87	≤-41.20	48.33	≤54	PASS
				AV	5456.640	-45.88	≤-41.20	49.32	≤54	PASS
				AV	5460.000	-45.99	≤-41.20	49.21	≤54	PASS
				Peak	5350.000	-43.88	≤-21.20	51.32	≤74	PASS
				Peak	5443.680	-37.16	≤-21.20	58.04	≤74	PASS
				Peak	5460.000	-45.59	≤-21.20	49.61	≤74	PASS

Note:

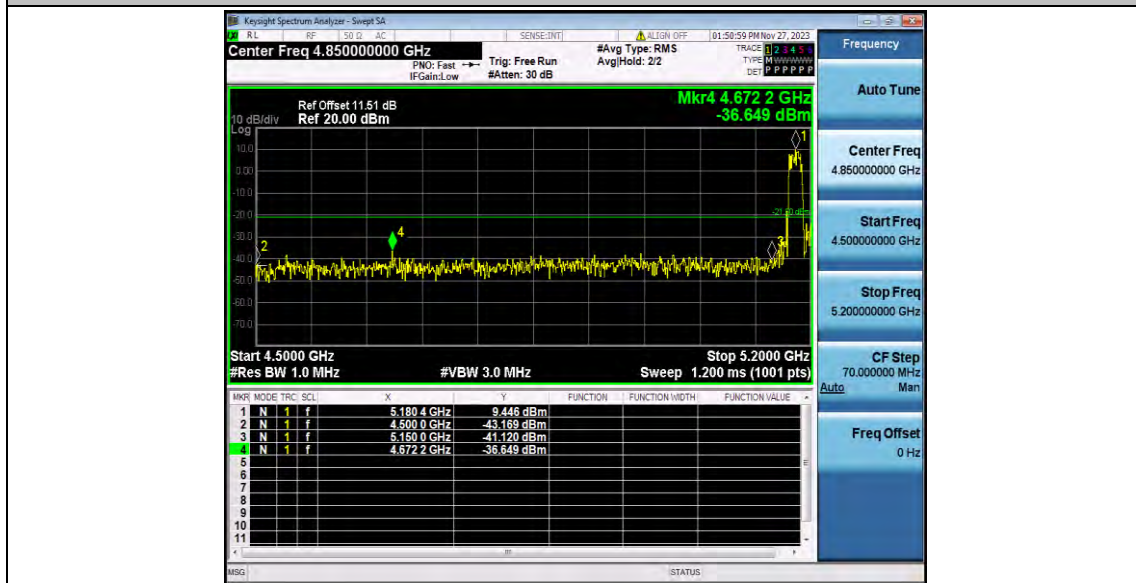
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



## Test Graphs



11A\_Ant1\_Low\_5180\_AV



11A\_Ant1\_Low\_5180\_Peak



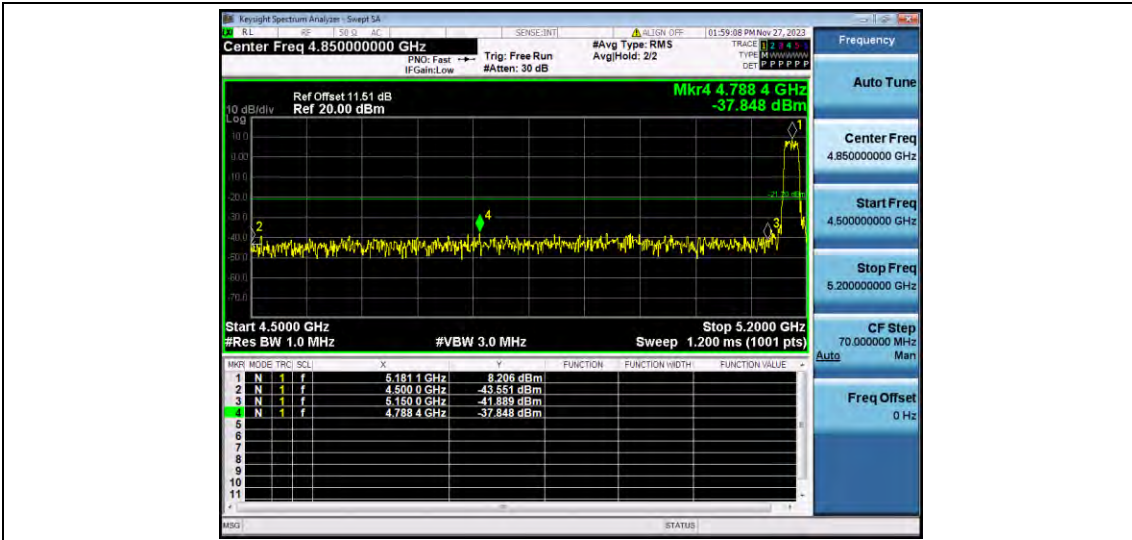
11A\_Ant1\_High\_5240\_AV



11A\_Ant1\_High\_5240\_Peak



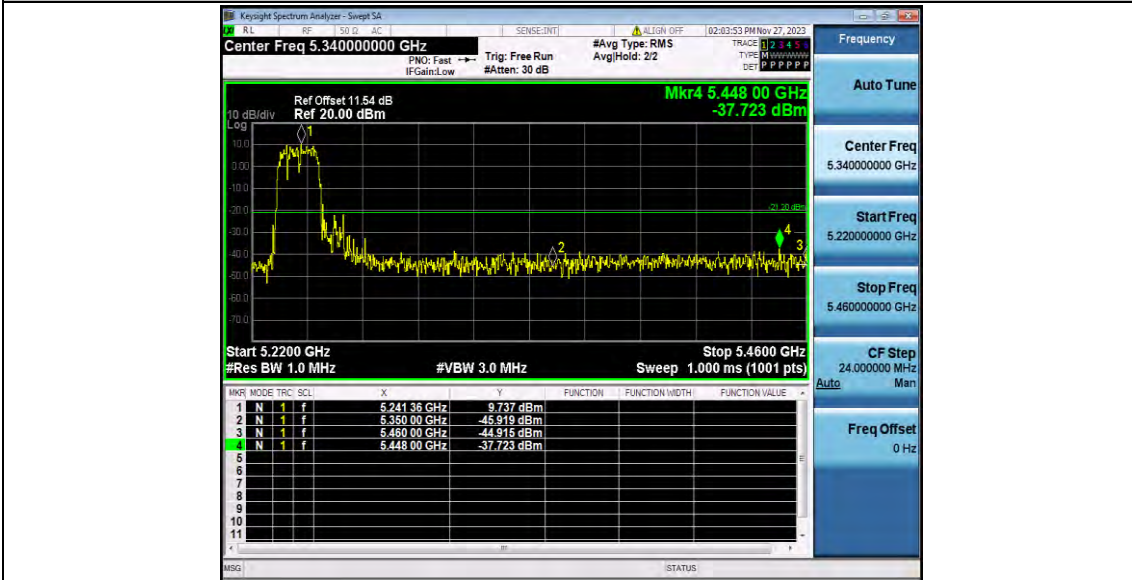
11N20SISO\_Ant1\_Low\_5180\_AV



11N20SISO\_Ant1\_Low\_5180\_Peak



11N20SISO\_Ant1\_High\_5240\_AV

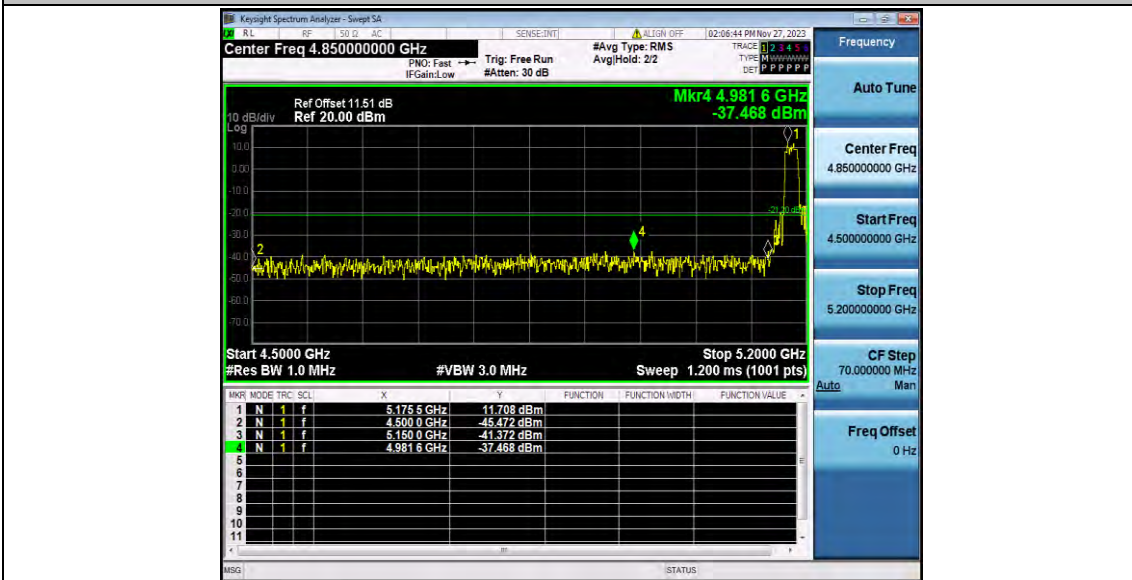


11N20SISO\_Ant1\_High\_5240\_Peak





11AC20SISO\_Ant1\_Low\_5180\_AV



11AC20SISO\_Ant1\_Low\_5180\_Peak



