

<b>Case No. :</b> <u>CTA24061301903</u>
<b>Ambient Condition:</b> <u>23</u> °C, <u>49</u> %RH
<b>According Standard:</b> ■Part15E
<b>Test Date:</b> <u>2024.6.4</u> <b>Test Engineer:</b> <u>Lushan Kong</u>

## Appendix D.1: Emission Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5500	19.680	5490.120	5509.800
		5600	19.640	5590.080	5609.720
		5700	29.600	5683.720	5713.320
11N20SISO	Ant1	5500	20.440	5489.880	5510.320
		5600	20.480	5589.840	5610.320
		5700	27.120	5685.880	5713.000

Test Graphs

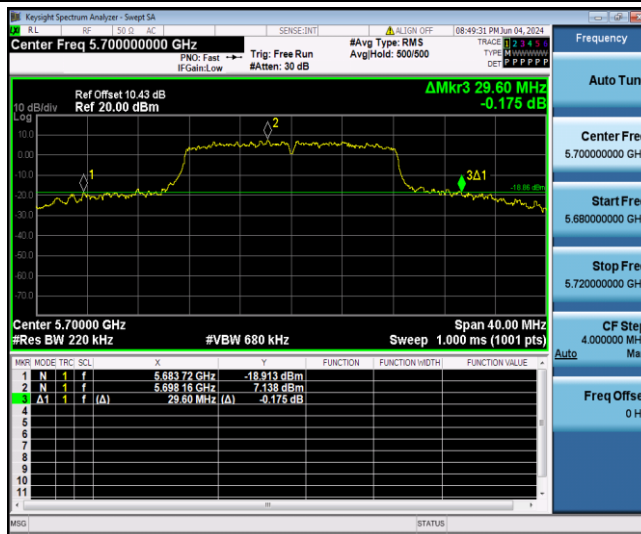
11A\_Ant1\_5500



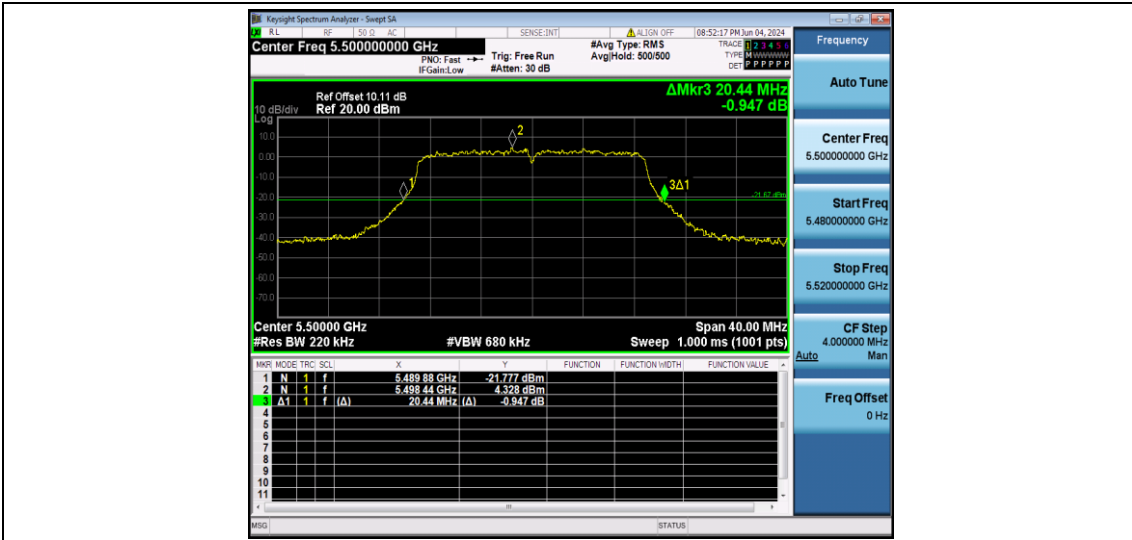
11A\_Ant1\_5600



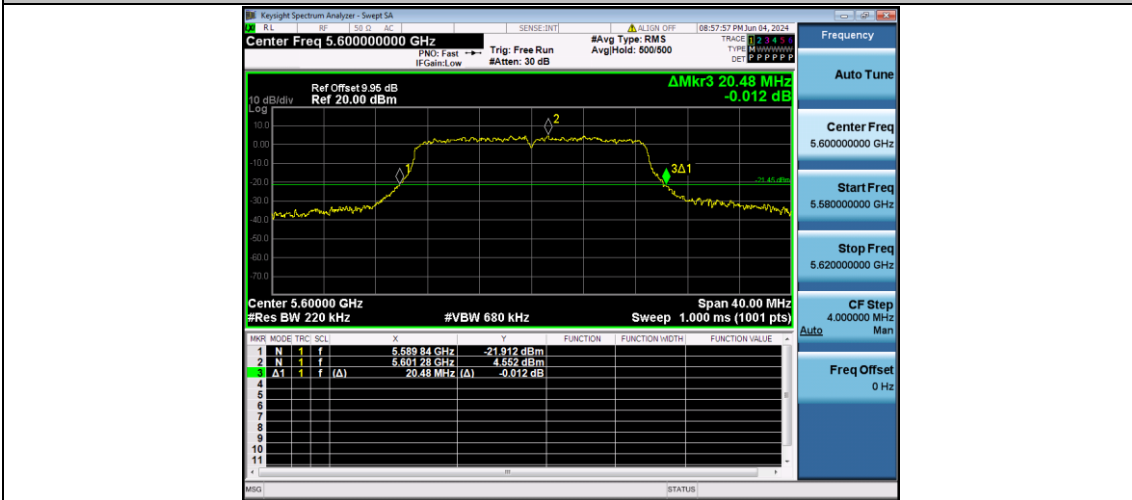
11A\_Ant1\_5700



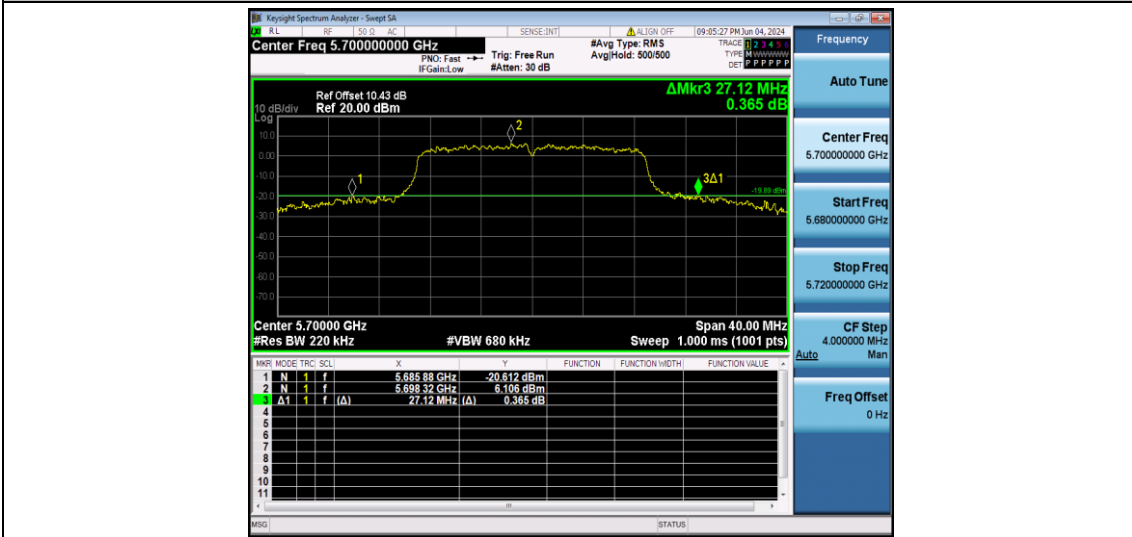
11N20SISO\_Ant1\_5500



11N20SISO\_Ant1\_5600



11N20SISO\_Ant1\_5700



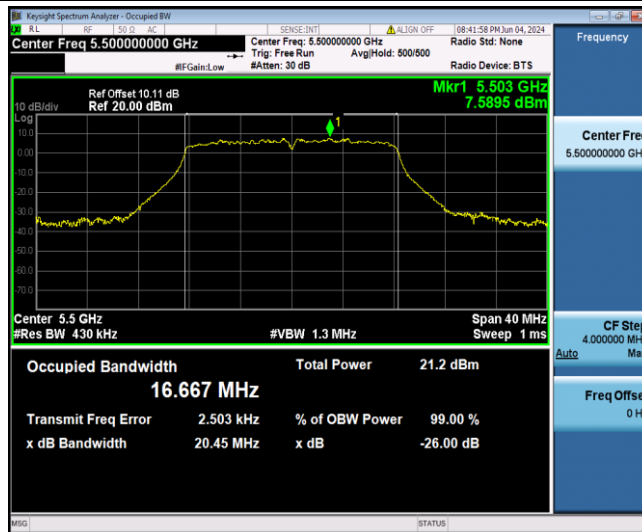
## Appendix D.2: Occupied channel bandwidth

### Test Result

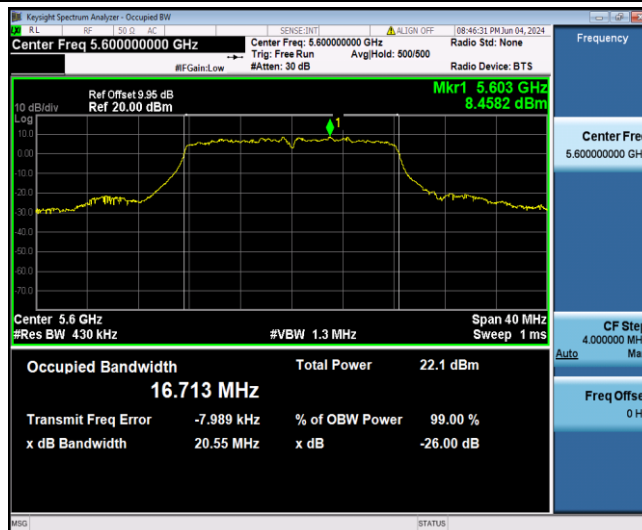
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5500	16.667	5491.6690	5508.3360
		5600	16.713	5591.6355	5608.3485
		5700	17.004	5691.4581	5708.4621
11N20SISO	Ant1	5500	17.772	5491.0944	5508.8664
		5600	17.780	5591.0796	5608.8596
		5700	17.993	5690.9728	5708.9658

## Test Graphs

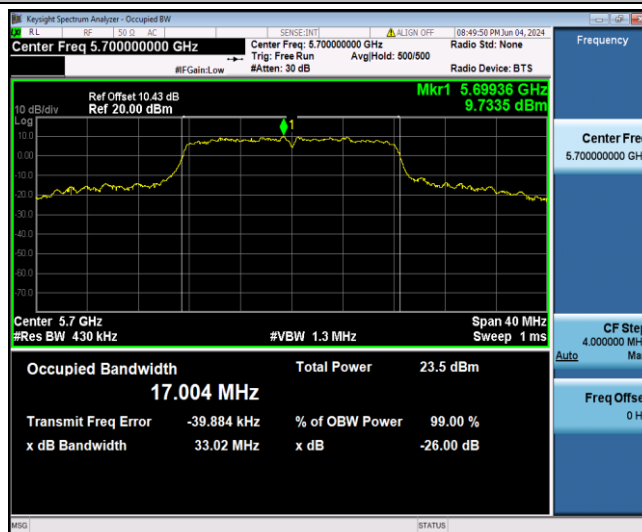
11A\_Ant1\_5500



11A\_Ant1\_5600



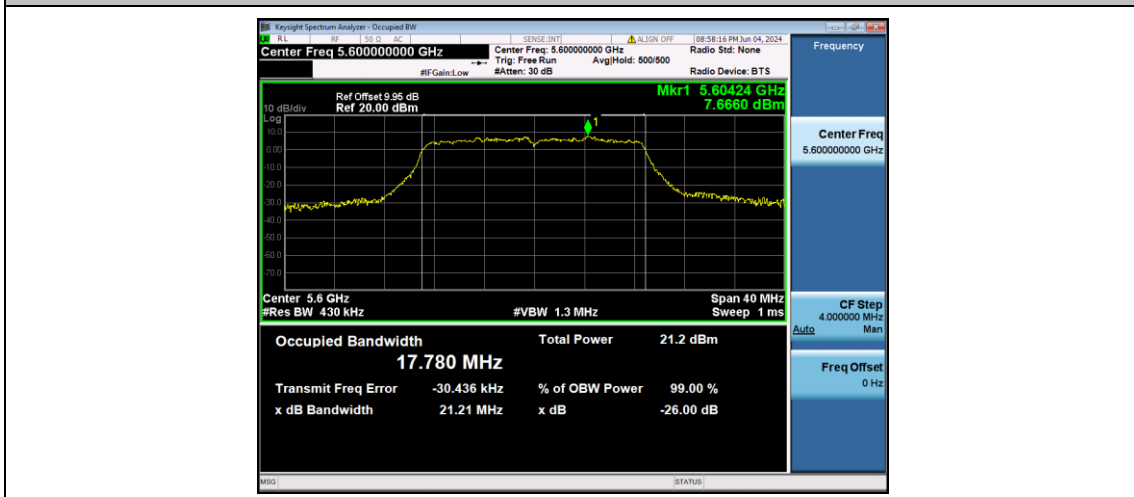
11A\_Ant1\_5700



11N20SISO\_Ant1\_5500



11N20SISO\_Ant1\_5600



11N20SISO\_Ant1\_5700



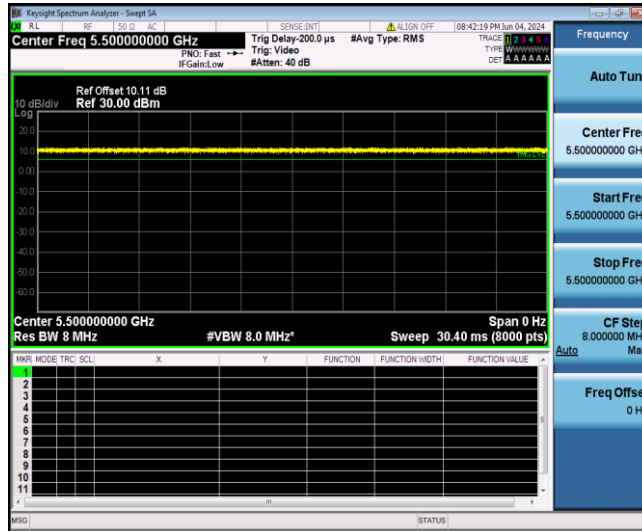
## Appendix D.3 : Duty Cycle

### Test Result

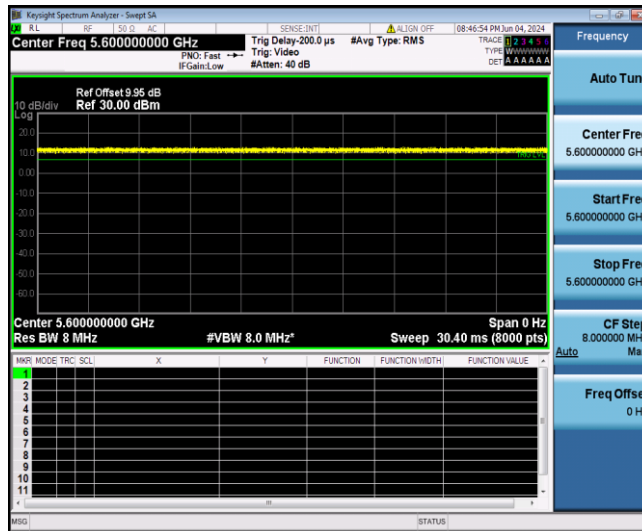
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5600	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5600	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03

## Test Graphs

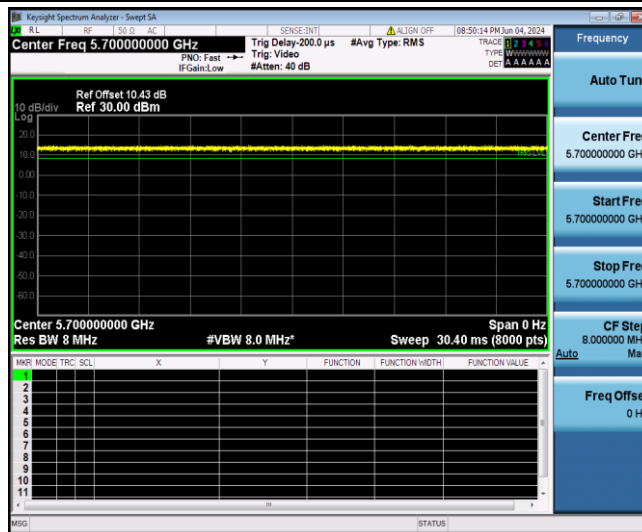
11A\_Ant1\_5500



11A\_Ant1\_5600

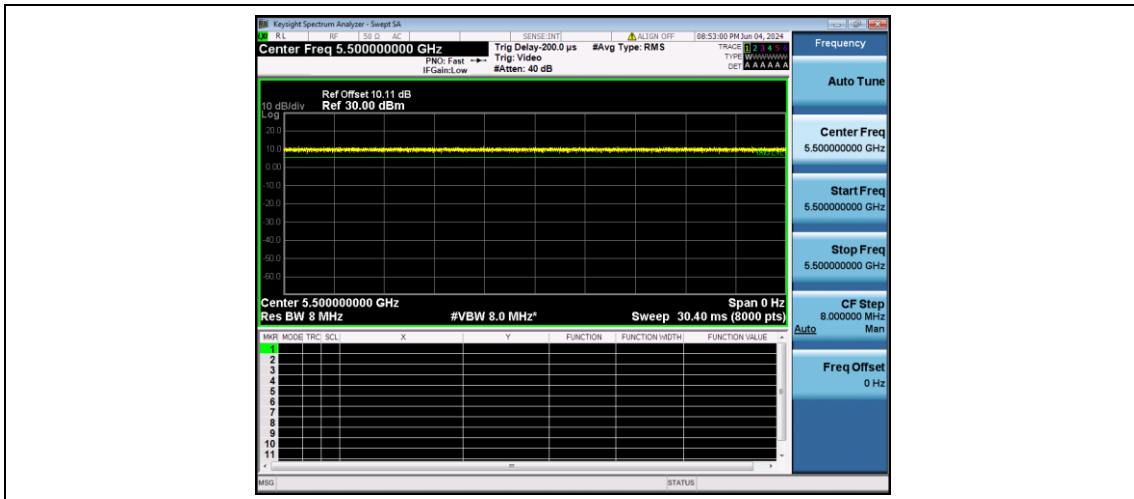


11A\_Ant1\_5700

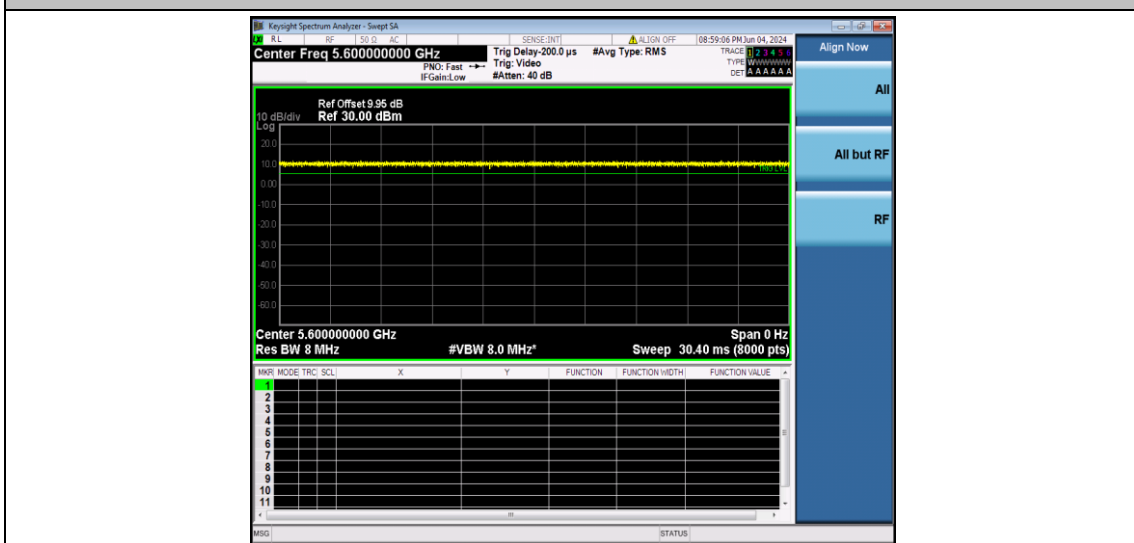


11N20SISO\_Ant1\_5500

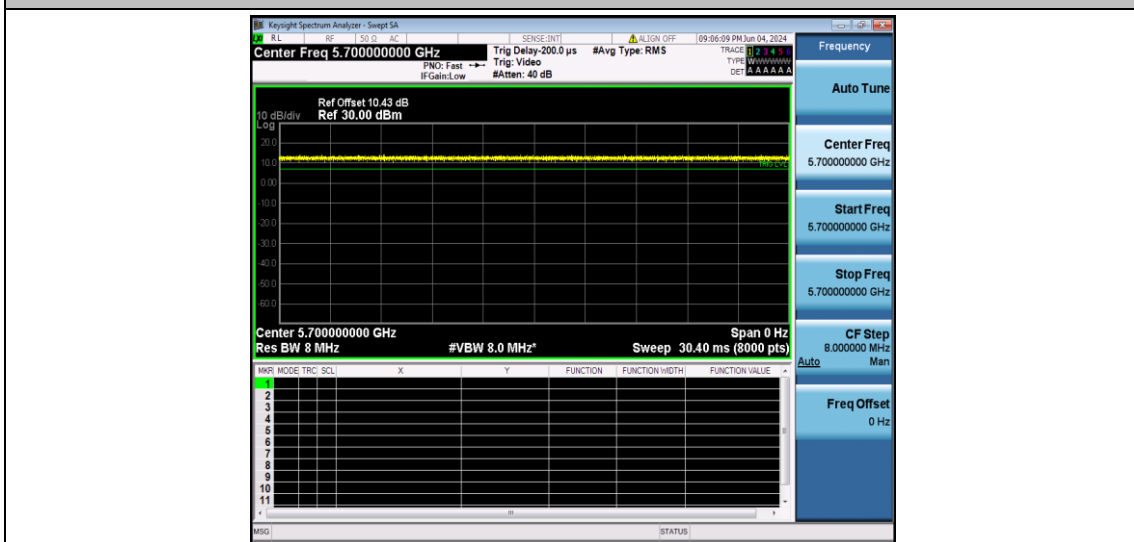




11N20SISO\_Ant1\_5600



11N20SISO\_Ant1\_5700



## Appendix D.4: Maximum conducted output power

### Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	16.22	100.00	0.00	16.22	≤23.94	PASS
		5600	16.08	100.00	0.00	16.08	≤23.93	PASS
		5700	16.56	100.00	0.00	16.56	≤23.98	PASS
11N20SISO	Ant1	5500	16.58	100.00	0.00	16.58	≤23.98	PASS
		5600	16.92	100.00	0.00	16.92	≤23.98	PASS
		5700	16.54	100.00	0.00	16.54	≤23.98	PASS

Note:

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

## Appendix D.5: Maximum power spectral density

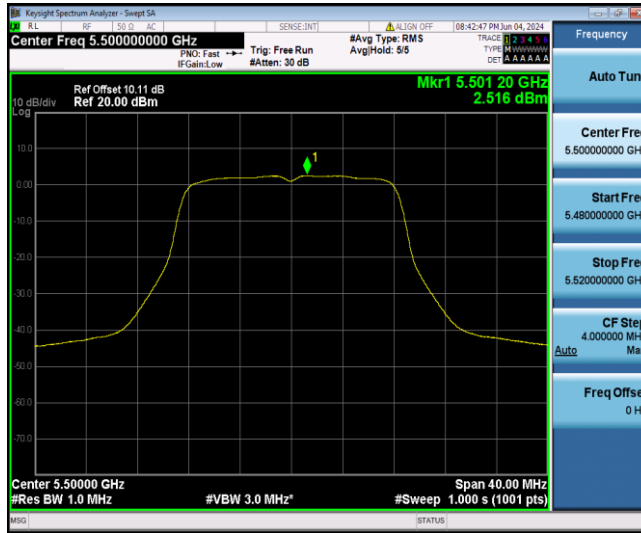
### Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5500	2.52	≤11.00	PASS
		5600	3.42	≤11.00	PASS
		5700	5.05	≤11.00	PASS
11N20SISO	Ant1	5500	1.50	≤11.00	PASS
		5600	2.08	≤11.00	PASS
		5700	4.08	≤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

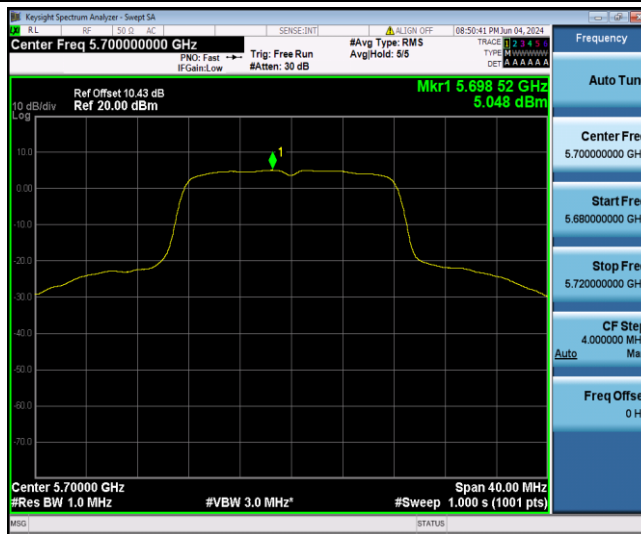
11A\_Ant1\_5500



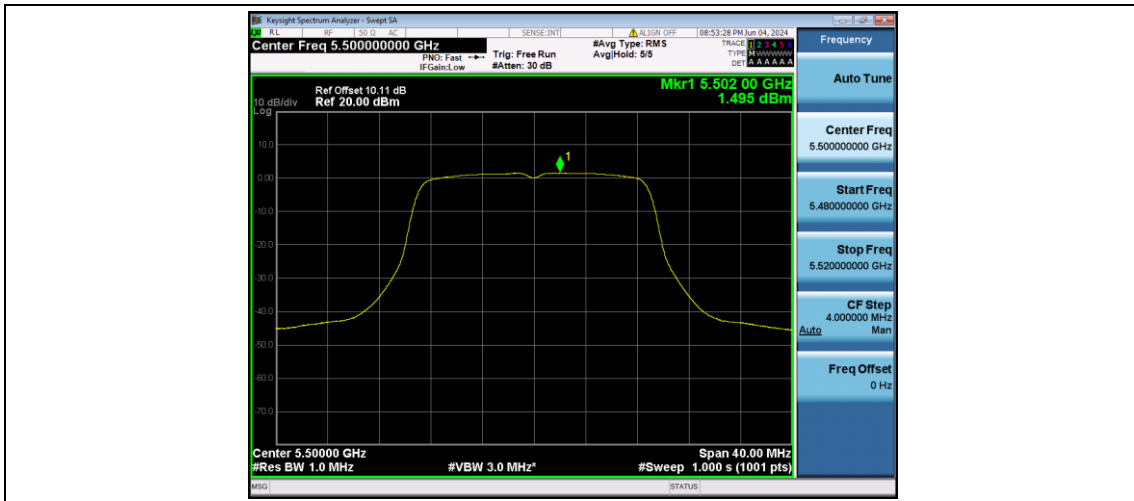
11A\_Ant1\_5600



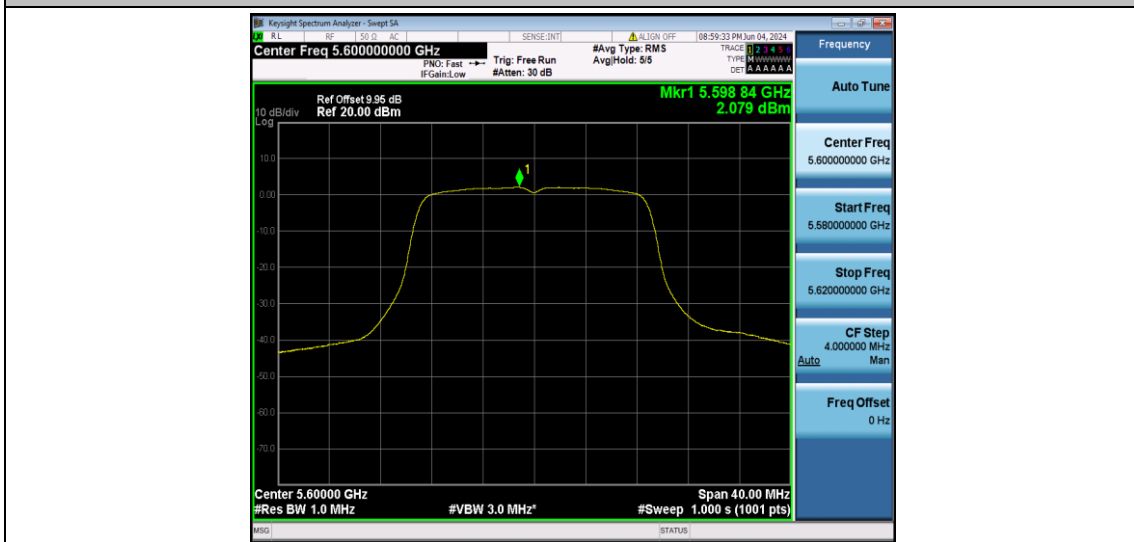
11A\_Ant1\_5700



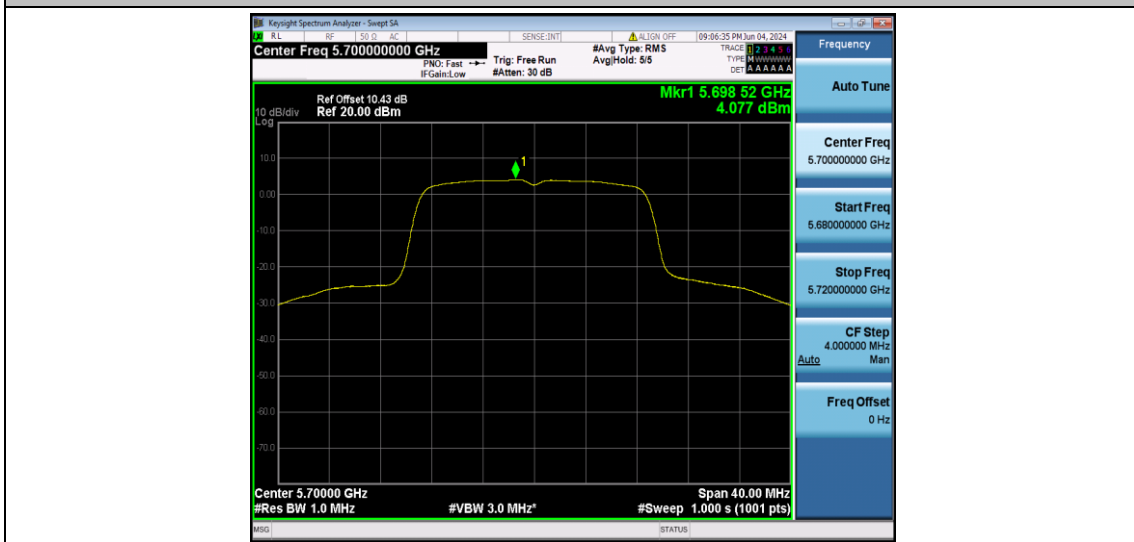
11N20SISO\_Ant1\_5500



11N20SISO\_Ant1\_5600



11N20SISO\_Ant1\_5700

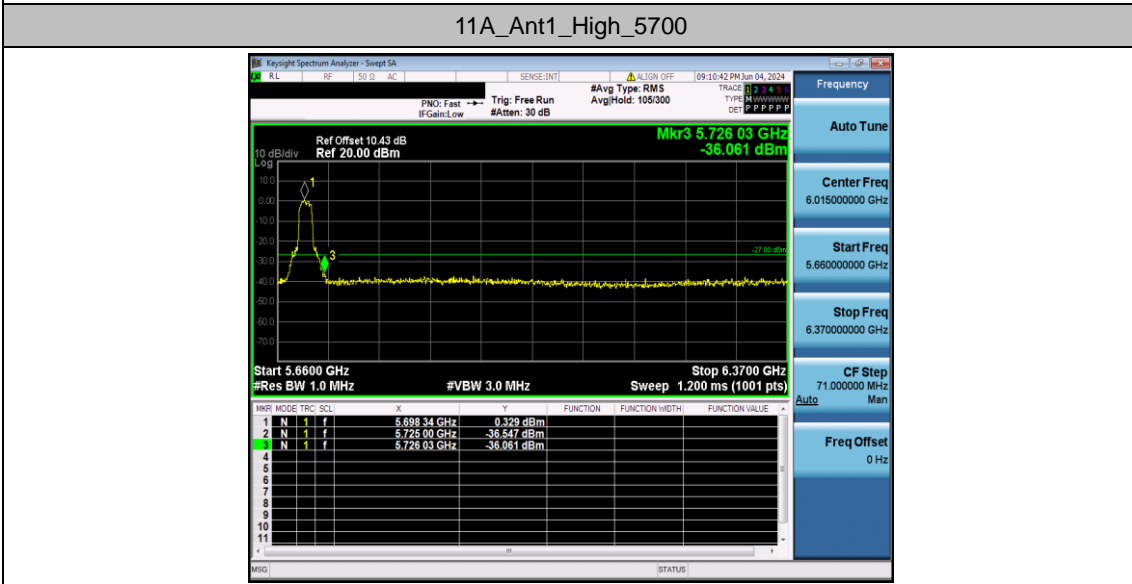
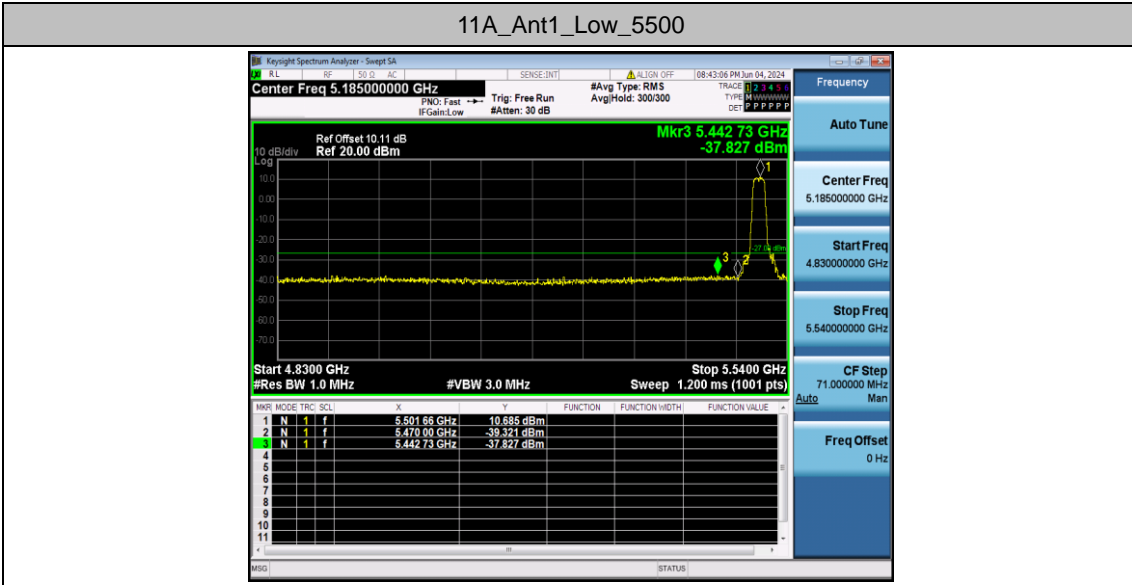


## Appendix D.6: Band edge measurements

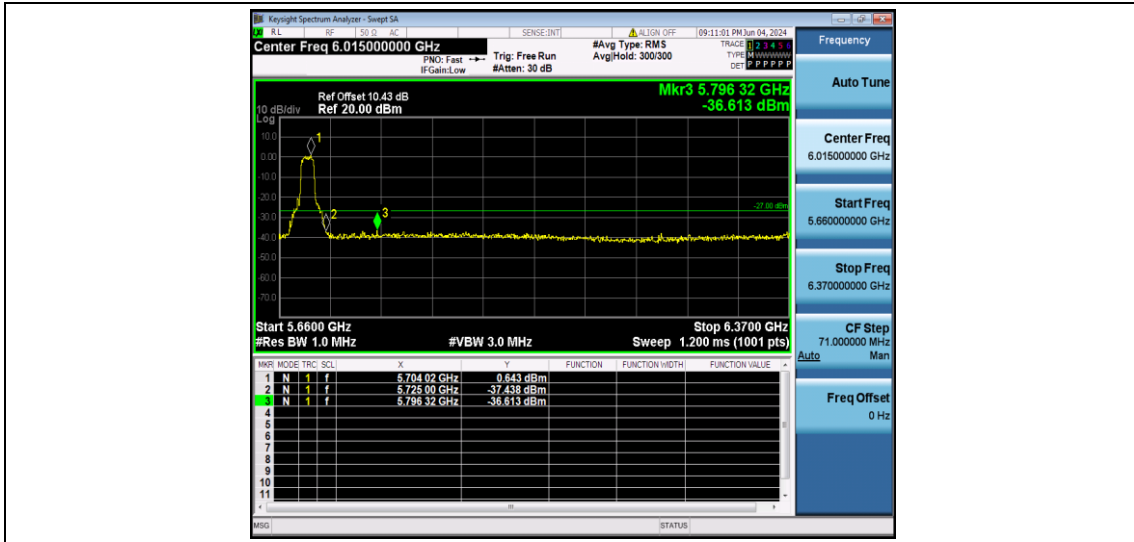
### Test Result B3

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5500	-37.83	≤-27	PASS
		High	5700	-36.06	≤-27	PASS
11N20SISO	Ant1	Low	5500	-36.82	≤-27	PASS
		High	5700	-36.61	≤-27	PASS

### Test Graphs B3



11N20SISO\_Ant1\_High\_5700





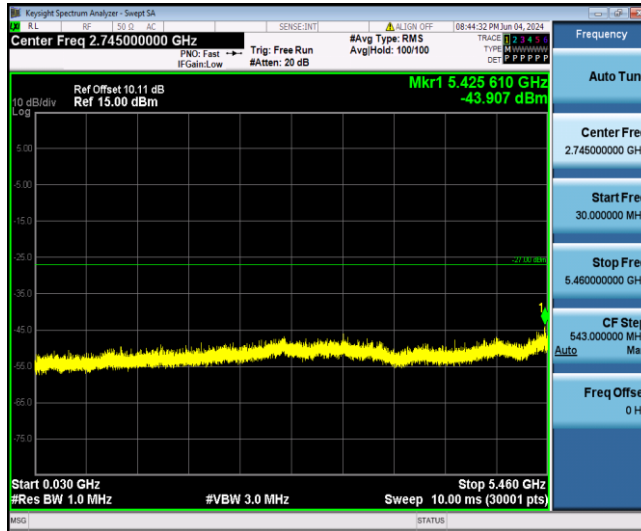
## Appendix D.7: Conducted Spurious Emission

### Test Result

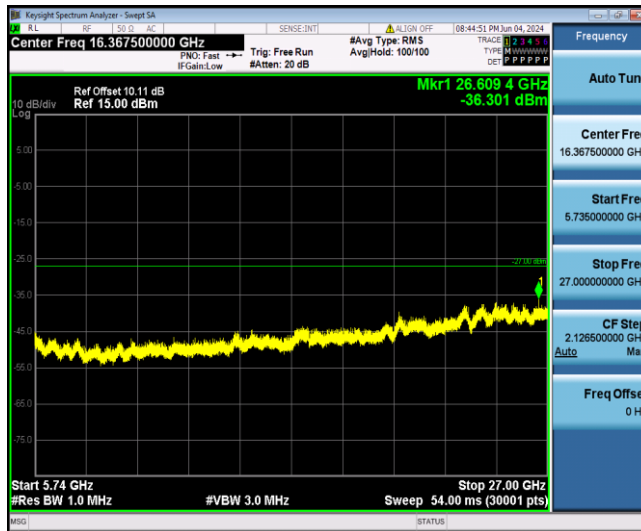
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	30~5460	5425.61	-43.91	≤-27	PASS
			5735~27000	26609.43	-36.3	≤-27	PASS
		5600	30~5460	1737.19	-43.41	≤-27	PASS
			5735~27000	26079.23	-37.09	≤-27	PASS
		5700	30~5460	826.94	-43.56	≤-27	PASS
			5735~27000	26140.19	-36.63	≤-27	PASS
11N20SISO	Ant1	5500	30~5460	5455.29	-43.99	≤-27	PASS
			5735~27000	24784.19	-36.8	≤-27	PASS
		5600	30~5460	5439.37	-45.96	≤-27	PASS
			5735~27000	25673.77	-36.61	≤-27	PASS
		5700	30~5460	5436.83	-45.7	≤-27	PASS
			5735~27000	5735	-33.64	≤-27	PASS

Test Graphs

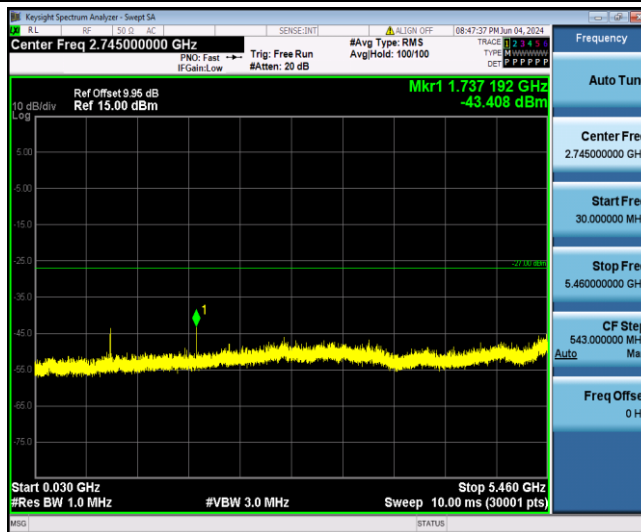
11A\_Ant1\_5500\_30~5460



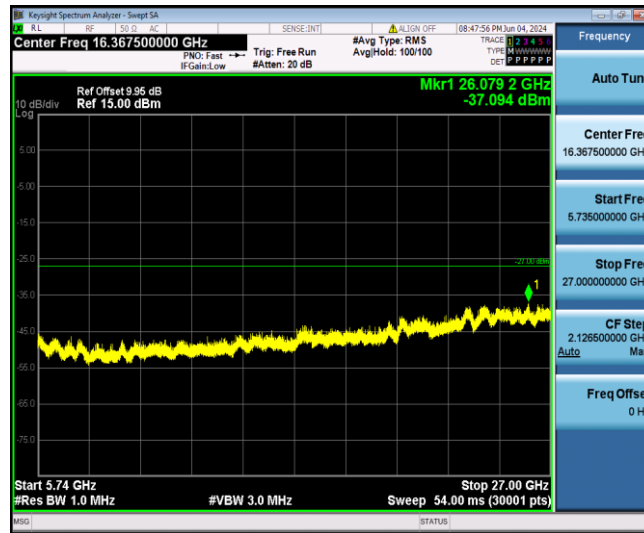
11A\_Ant1\_5500\_5735~27000



11A\_Ant1\_5600\_30~5460



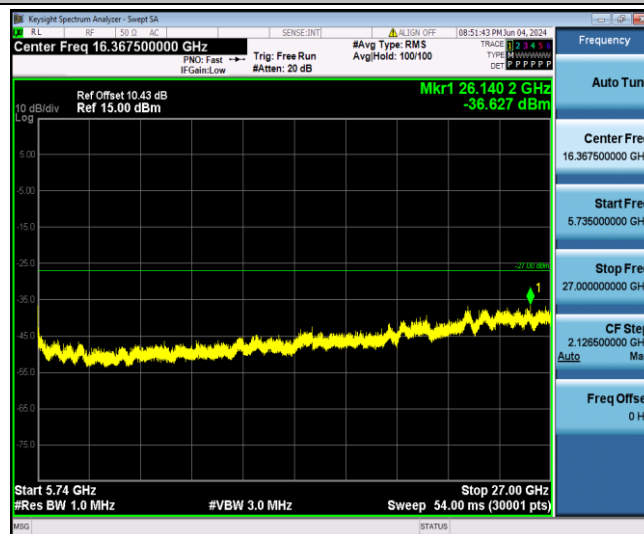
11A\_Ant1\_5600\_5735~27000



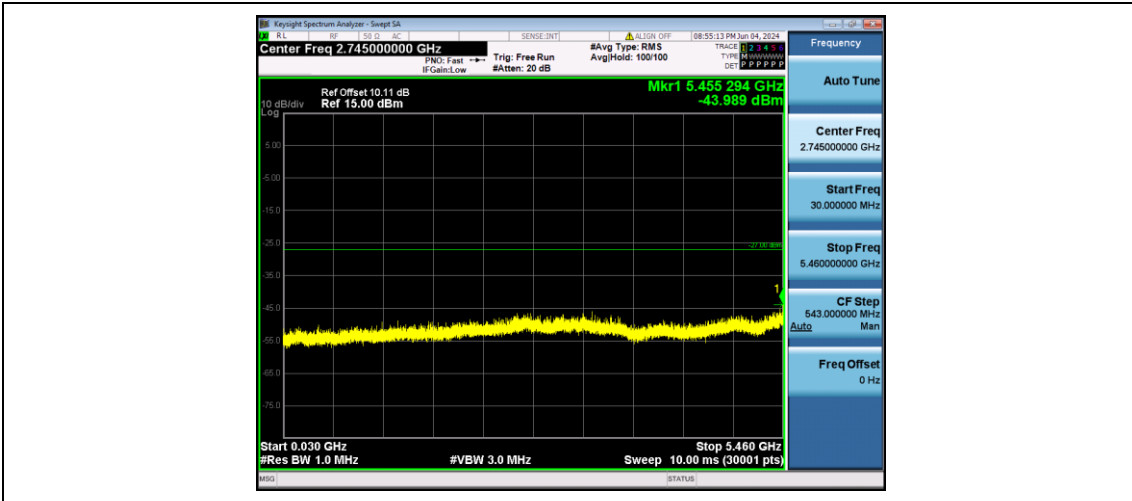
11A\_Ant1\_5700\_30~5460



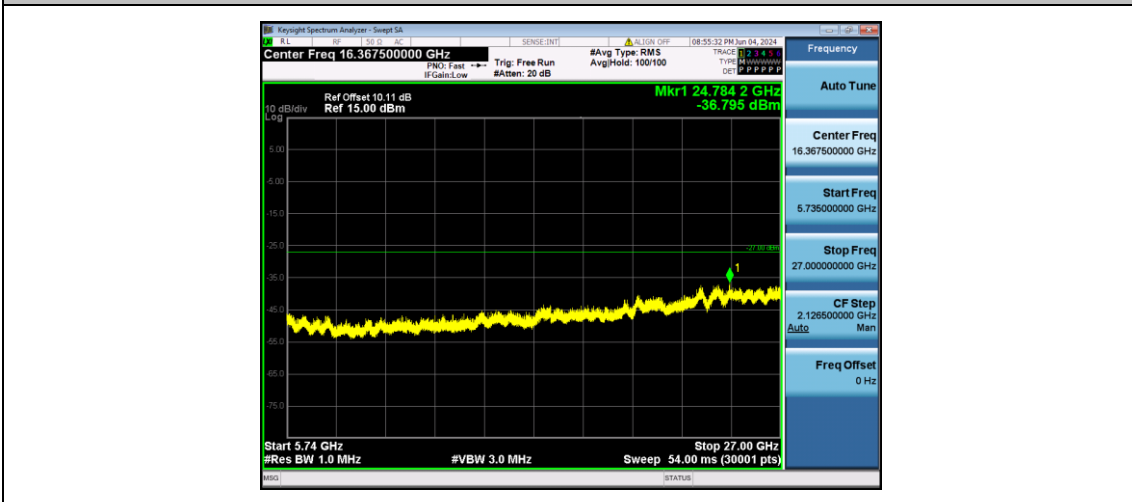
11A\_Ant1\_5700\_5735~27000



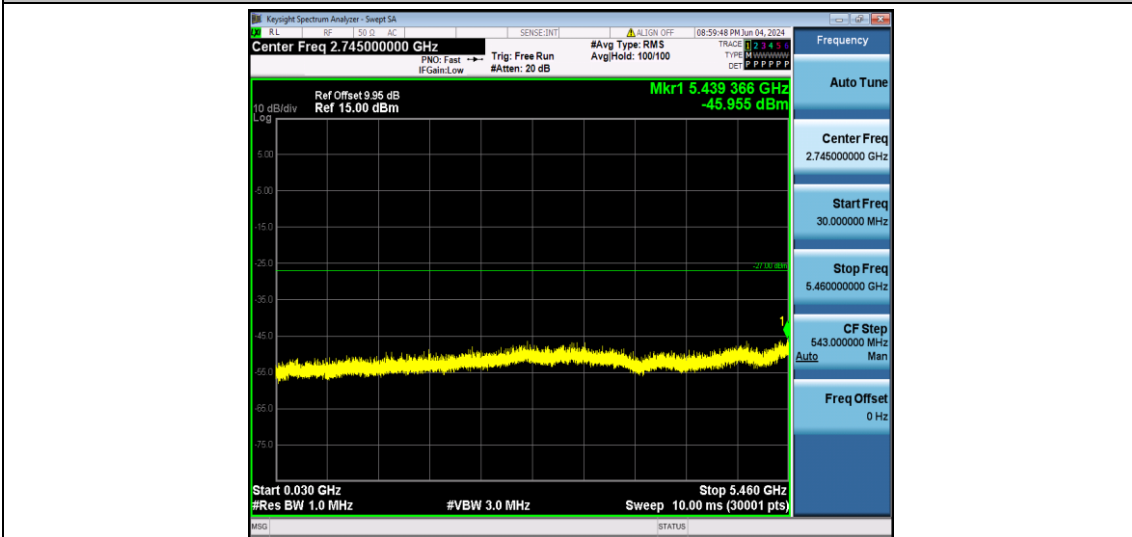
11N20SISO\_Ant1\_5500\_30~5460



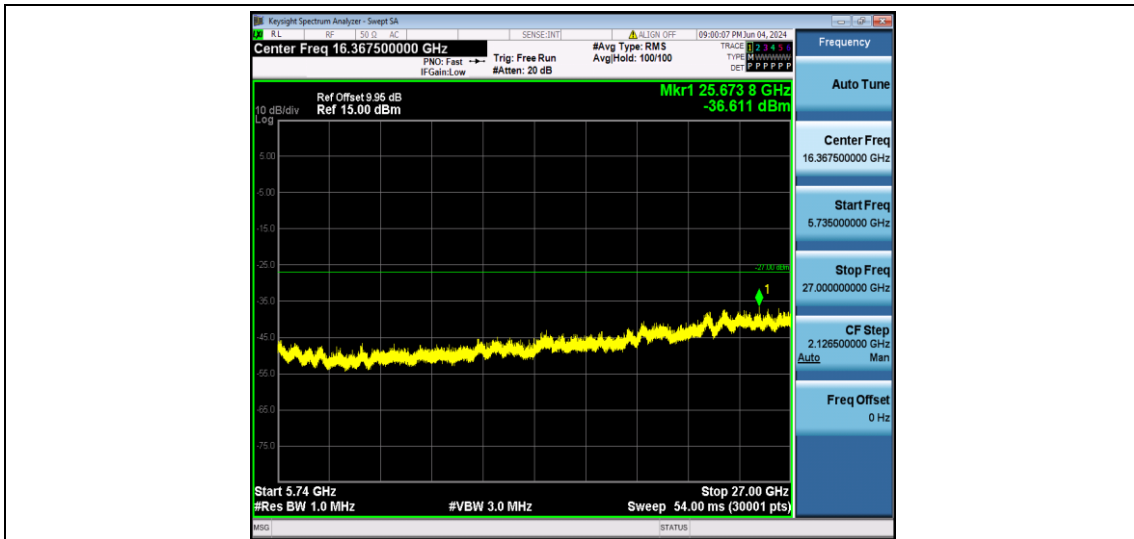
11N20SISO\_Ant1\_5500\_5735~27000



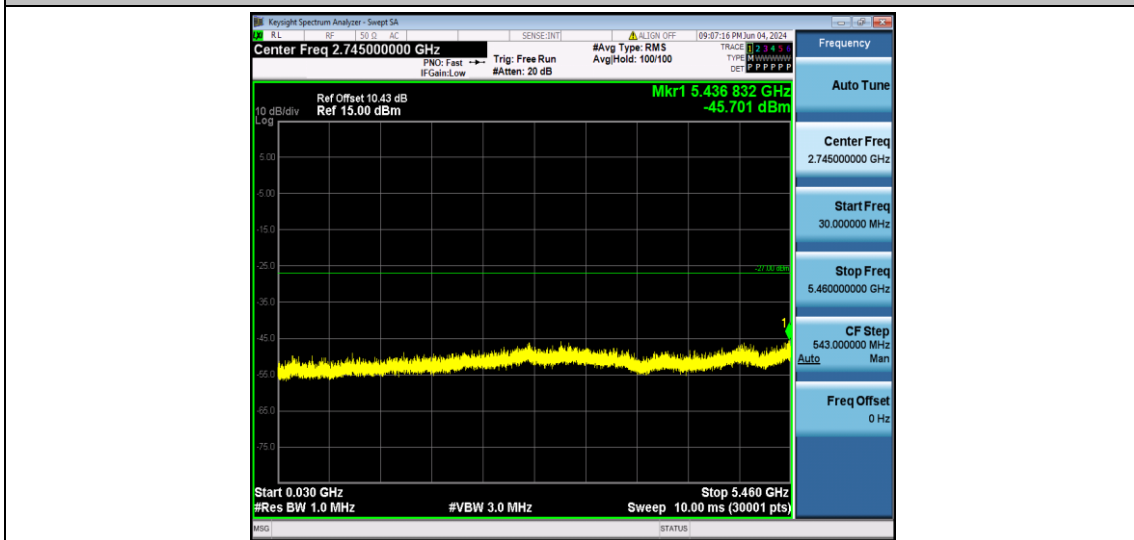
11N20SISO\_Ant1\_5600\_30~5460



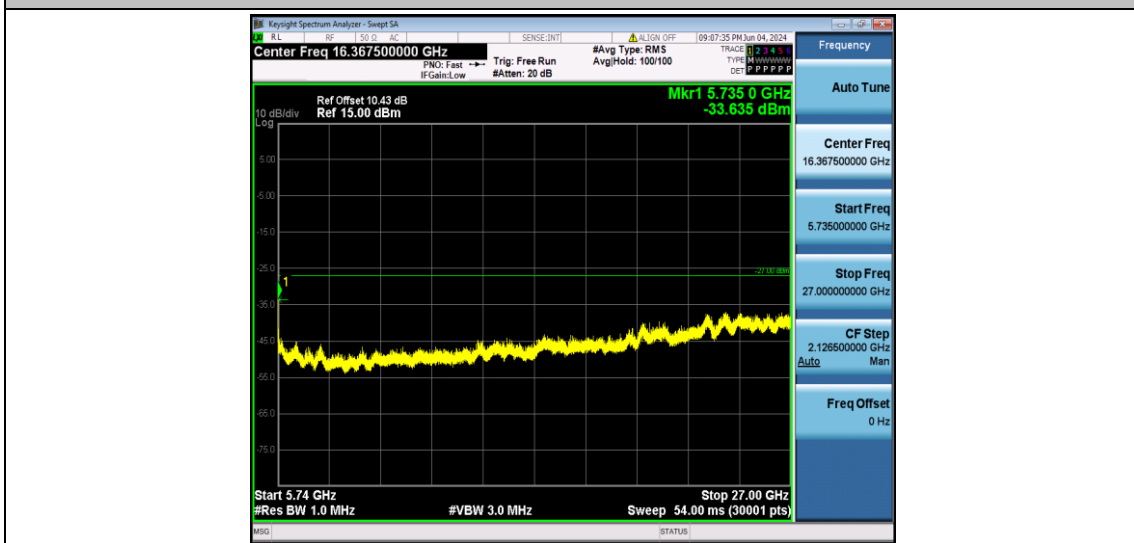
11N20SISO\_Ant1\_5600\_5735~27000



11N20SISO\_Ant1\_5700\_30~5460



11N20SISO\_Ant1\_5700\_5735~27000



## Appendix D.8: Emissions in Restricted Bands

### Test Result

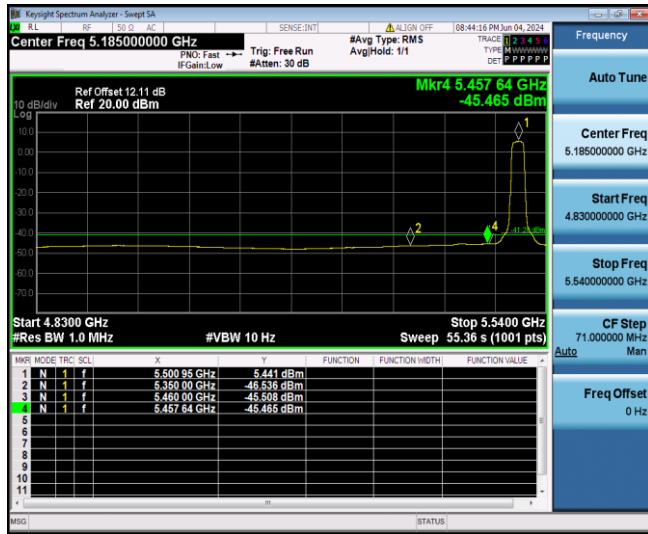
TestMode	Antenna	ChName	Freq(MHz )	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5500	AV	5350.000	-46.54	≤-41.20	48.66	≤54	PASS
				AV	5457.640	-45.47	≤-41.20	49.73	≤54	PASS
				AV	5460.000	-45.51	≤-41.20	49.69	≤54	PASS
				Peak	5350.000	-42.29	≤-21.20	52.91	≤74	PASS
				Peak	5415.040	-36.93	≤-21.20	58.27	≤74	PASS
				Peak	5460.000	-42.42	≤-21.20	52.78	≤74	PASS
11N20SIS O	Ant1	Low	5500	AV	5350.000	-46.54	≤-41.20	48.66	≤54	PASS
				AV	5456.930	-45.47	≤-41.20	49.73	≤54	PASS
				AV	5460.000	-45.53	≤-41.20	49.67	≤54	PASS
				Peak	5350.000	-46.72	≤-21.20	48.48	≤74	PASS
				Peak	5454.090	-37.63	≤-21.20	57.57	≤74	PASS
				Peak	5460.000	-40.35	≤-21.20	54.85	≤74	PASS

Note:

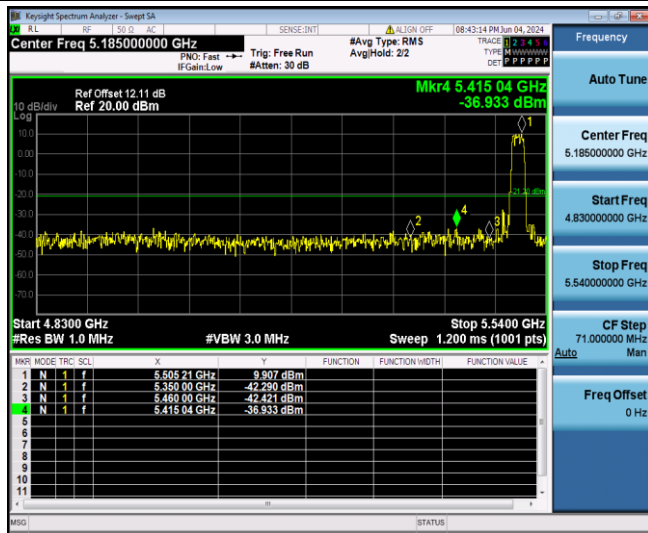
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm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

Test Graphs

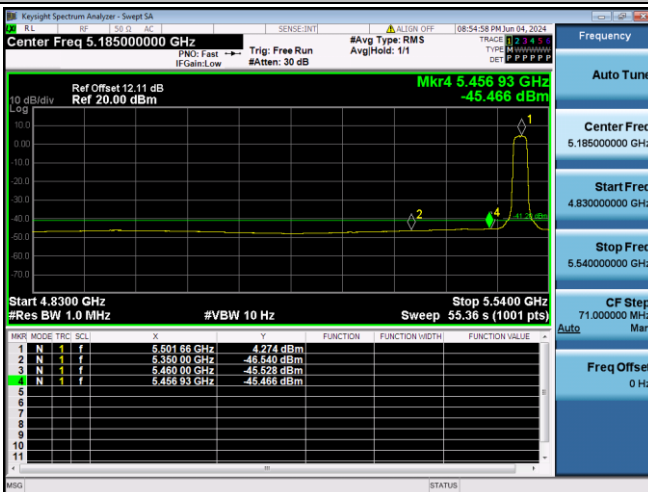
11A\_Ant1\_Low\_5500\_AV



11A\_Ant1\_Low\_5500\_Peak



11N20SISO\_Ant1\_Low\_5500\_AV



11N20SISO\_Ant1\_Low\_5500\_Peak

