

RF Test Data for RLAN(5.2G) (Conducted Measurement)**Product Name: Wanbo Projector****Trade Mark: wanbo****Test Model: T6 Max****FCC ID: 2A7PIT6MAX****Environmental Conditions**

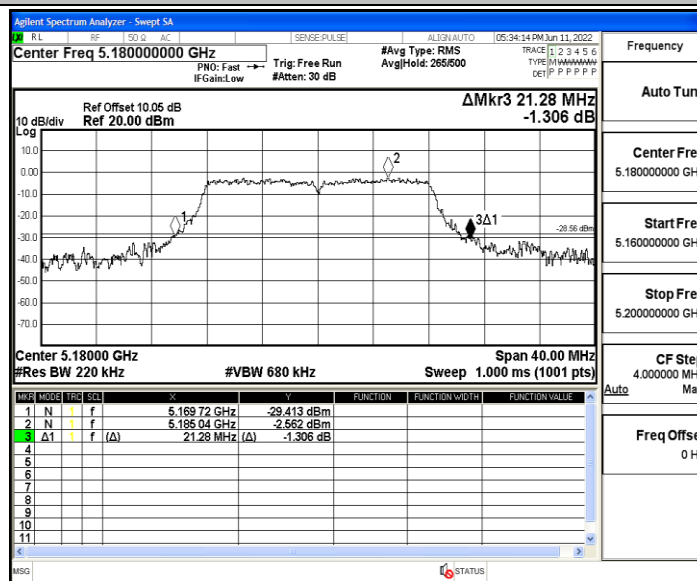
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test #JobTitle:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A1: Emission Bandwidth**Test Result**

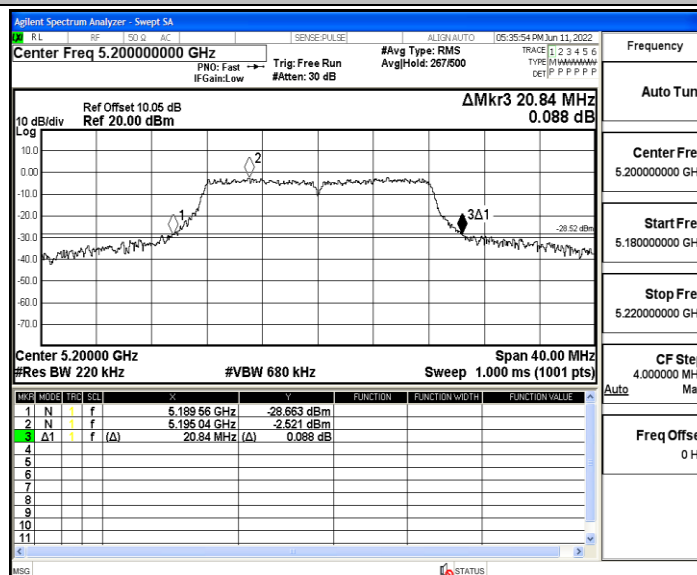
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.280	5169.720	5191.000	---	---
		5200	20.840	5189.560	5210.400	---	---
		5240	24.880	5228.160	5253.040	---	---
11N20SISO	Ant1	5180	21.040	5169.560	5190.600	---	---
		5200	21.240	5189.480	5210.720	---	---
		5240	21.440	5229.480	5250.920	---	---
11N40SISO	Ant1	5190	41.520	5169.360	5210.880	---	---
		5230	41.760	5209.360	5251.120	---	---
11AC20SISO	Ant1	5180	20.960	5169.680	5190.640	---	---
		5200	21.200	5189.360	5210.560	---	---
		5240	21.200	5229.240	5250.440	---	---
11AC40SISO	Ant1	5190	42.000	5169.440	5211.440	---	---
		5230	41.440	5209.440	5250.880	---	---
11AC80SISO	Ant1	5210	81.440	5169.840	5251.280	---	---

Test Graphs

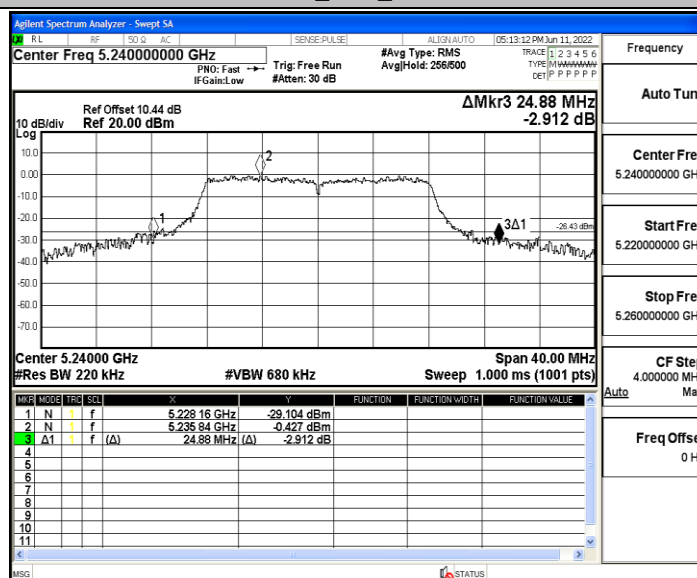
11A_Ant1_5180



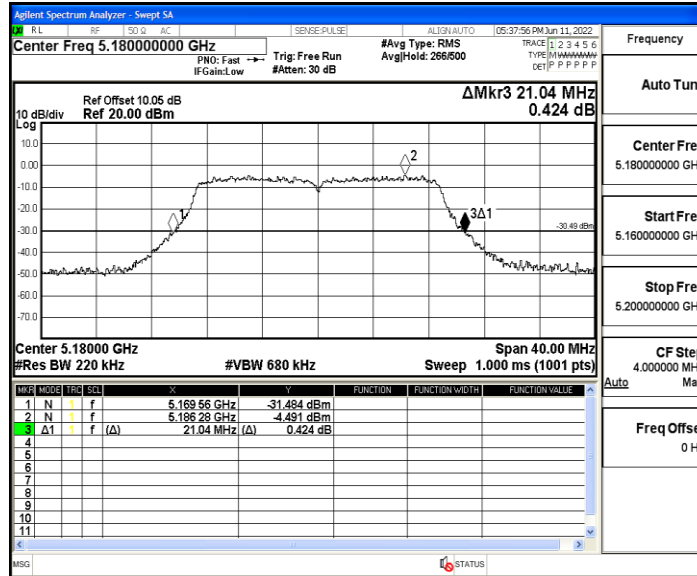
11A_Ant1_5200



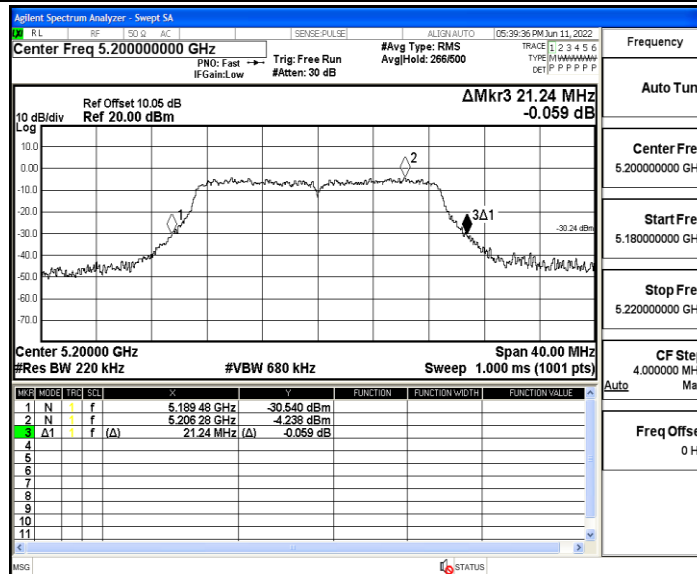
11A_Ant1_5240



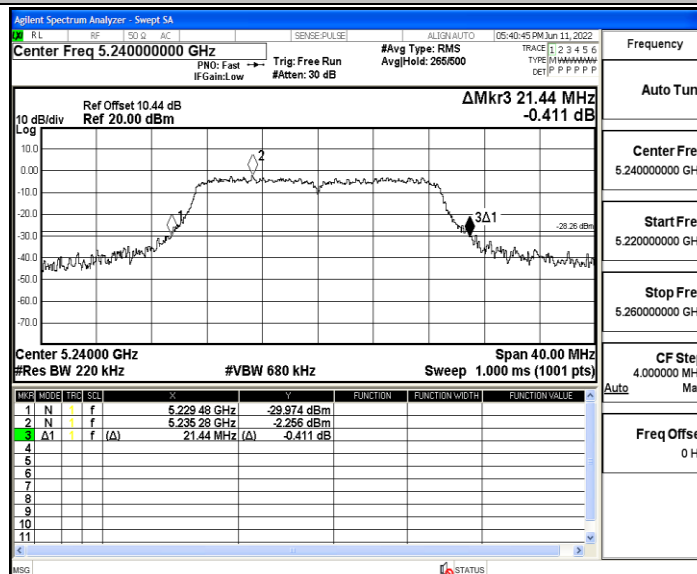
11N20SISO_Ant1_5180



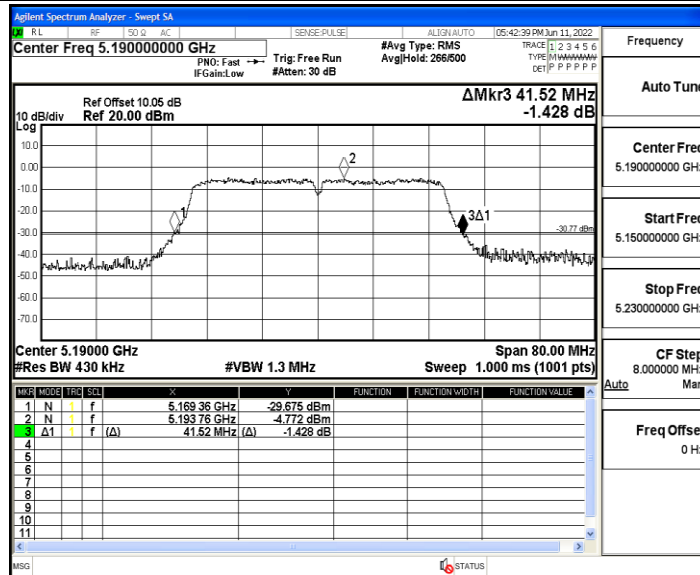
11N20SISO_Ant1_5200



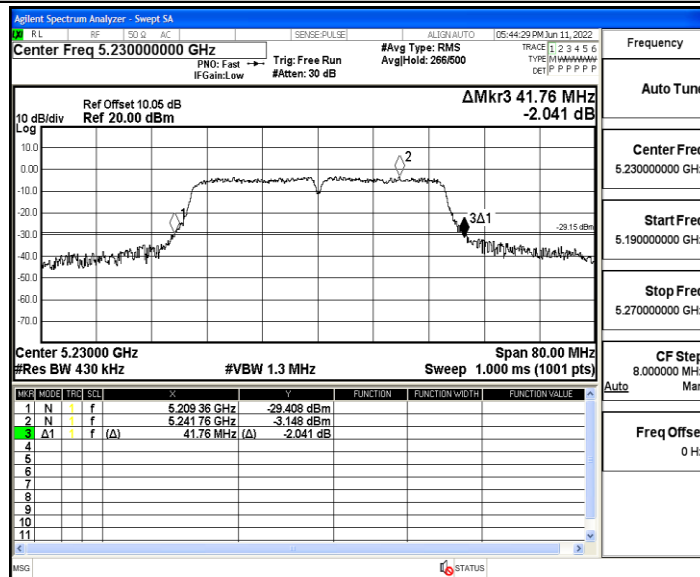
11N20SISO_Ant1_5240



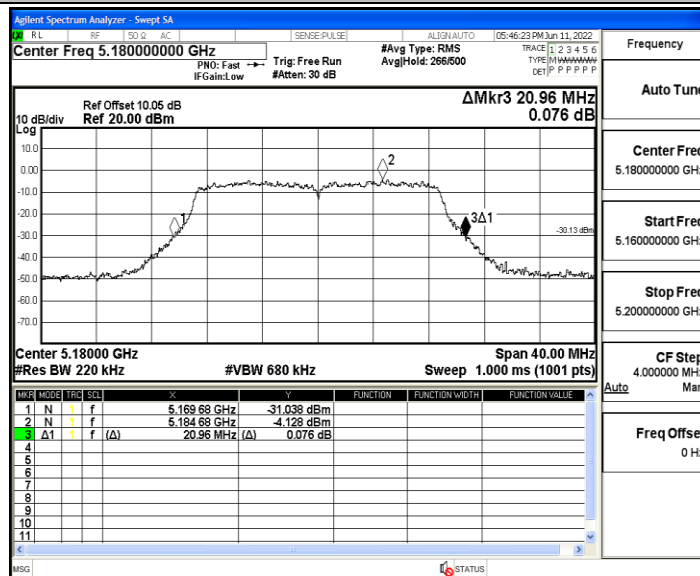
11N40SISO_Ant1_5190



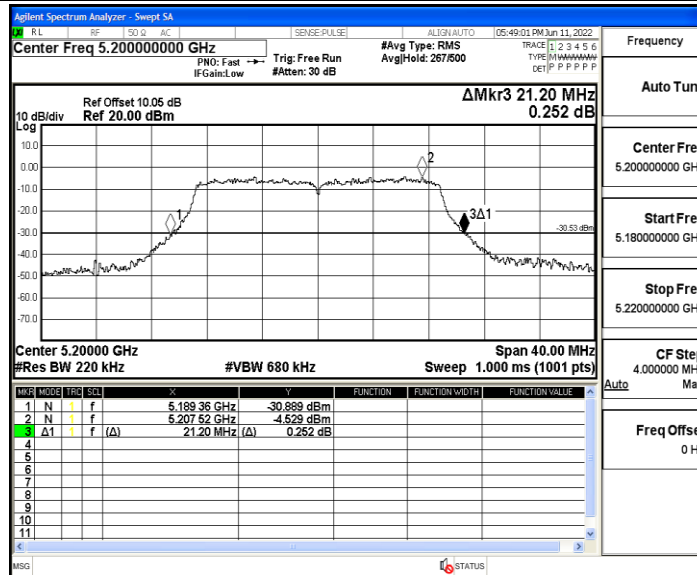
11N40SISO_Ant1_5230



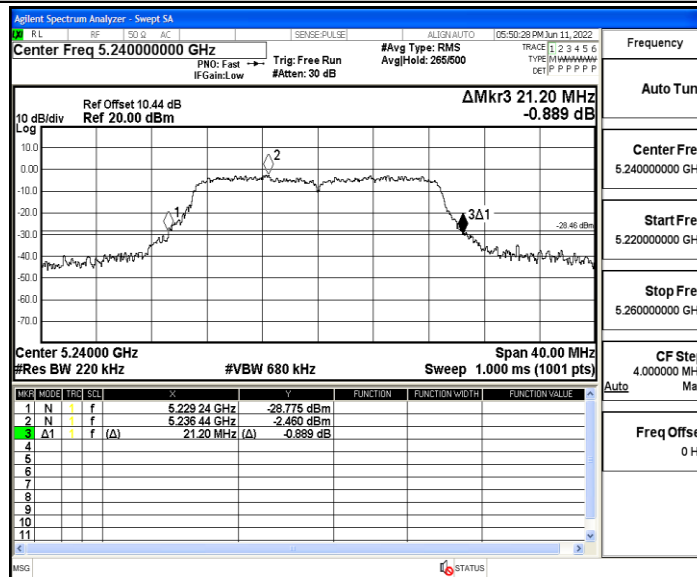
11AC20SISO_Ant1_5180



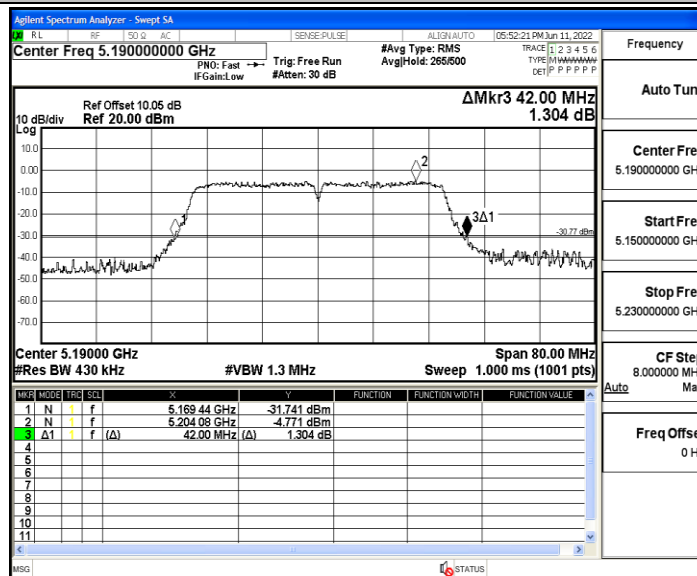
11AC20SISO_Ant1_5200



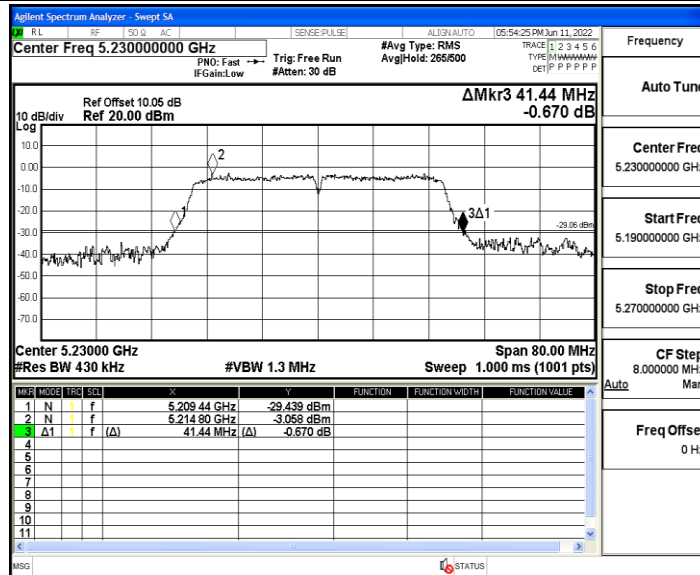
11AC20SISO_Ant1_5240



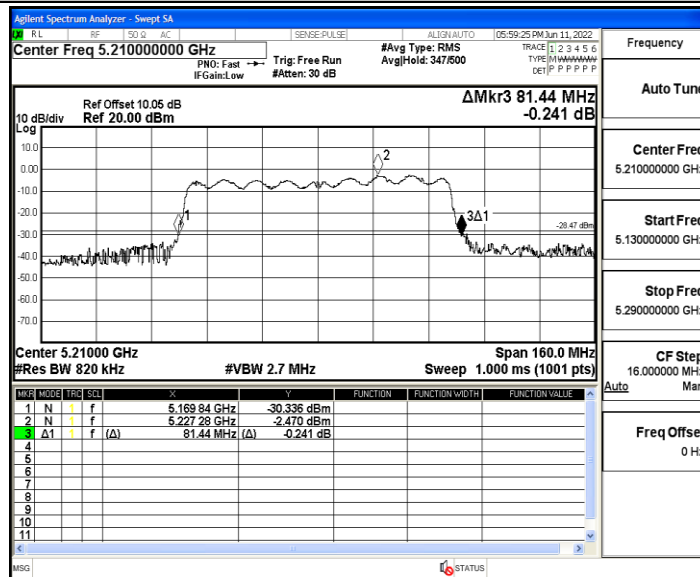
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



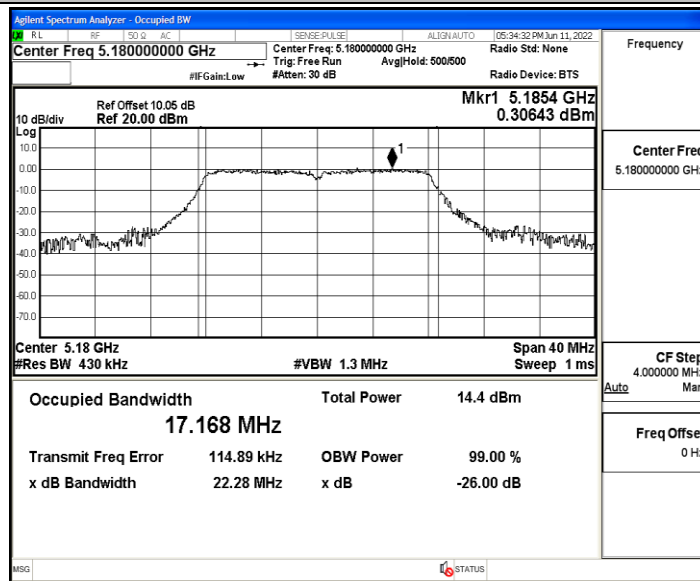
Appendix A2: Occupied channel bandwidth

Test Result

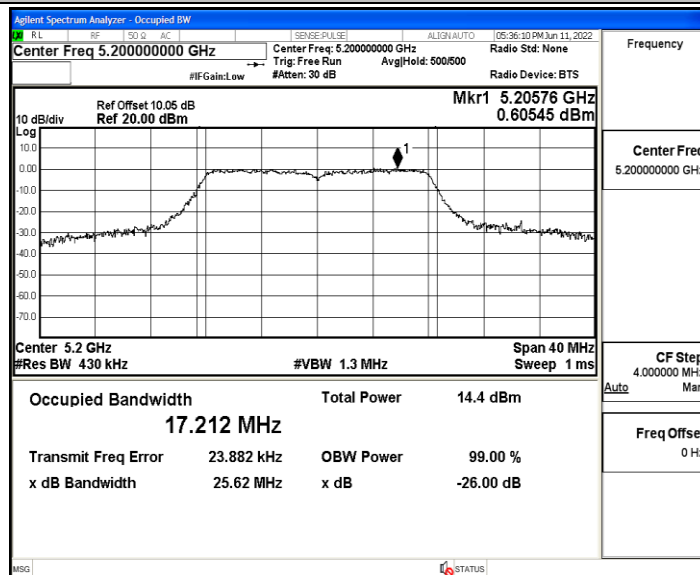
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.168	5171.531	5188.699	---	---
		5200	17.212	5191.418	5208.630	---	---
		5240	17.294	5231.310	5248.604	---	---
11N20SISO	Ant1	5180	17.965	5171.078	5189.043	---	---
		5200	18.014	5191.051	5209.065	---	---
		5240	18.086	5230.984	5249.070	---	---
11N40SISO	Ant1	5190	36.468	5171.868	5208.336	---	---
		5230	36.518	5211.903	5248.421	---	---
11AC20SISO	Ant1	5180	17.988	5171.102	5189.090	---	---
		5200	17.978	5191.029	5209.007	---	---
		5240	18.113	5230.916	5249.029	---	---
11AC40SISO	Ant1	5190	36.716	5171.799	5208.515	---	---
		5230	36.602	5211.841	5248.443	---	---
11AC80SISO	Ant1	5210	75.668	5172.456	5248.124	---	---

Test Graphs

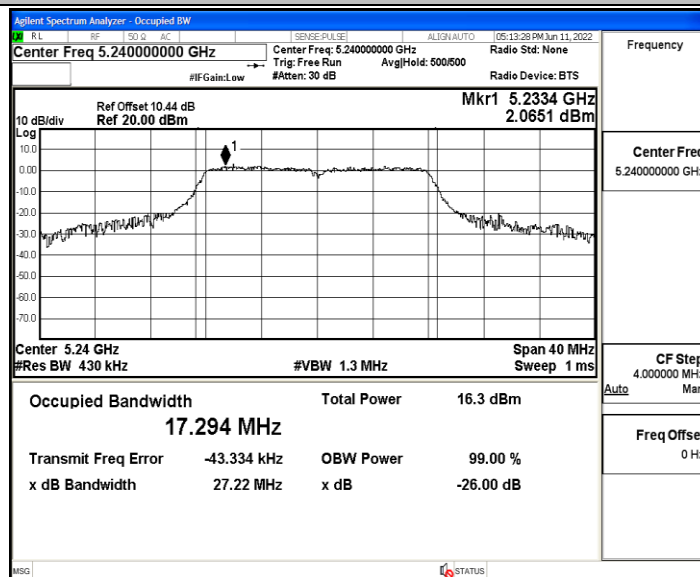
11A_Ant1_5180



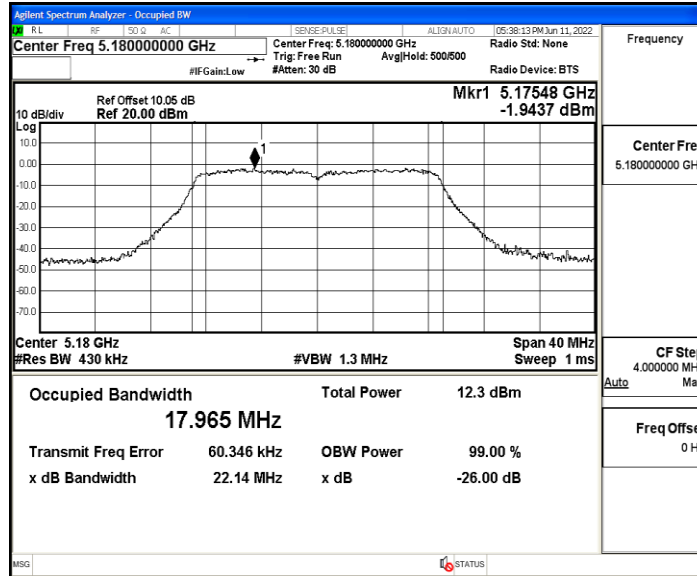
11A_Ant1_5200



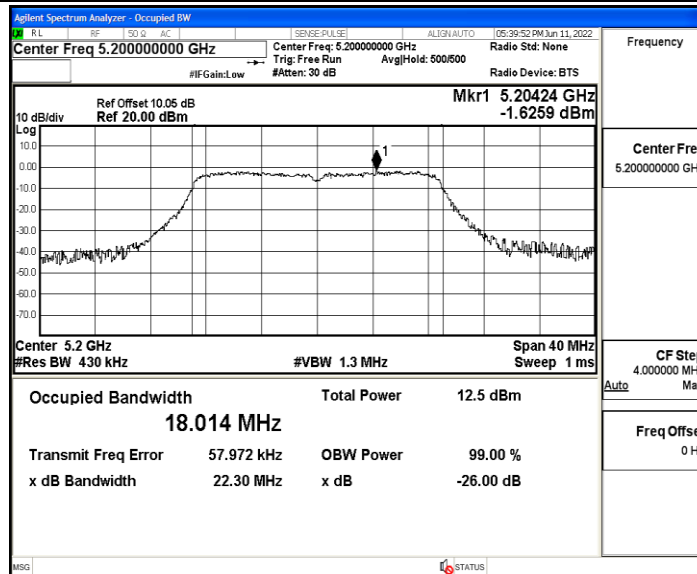
11A_Ant1_5240



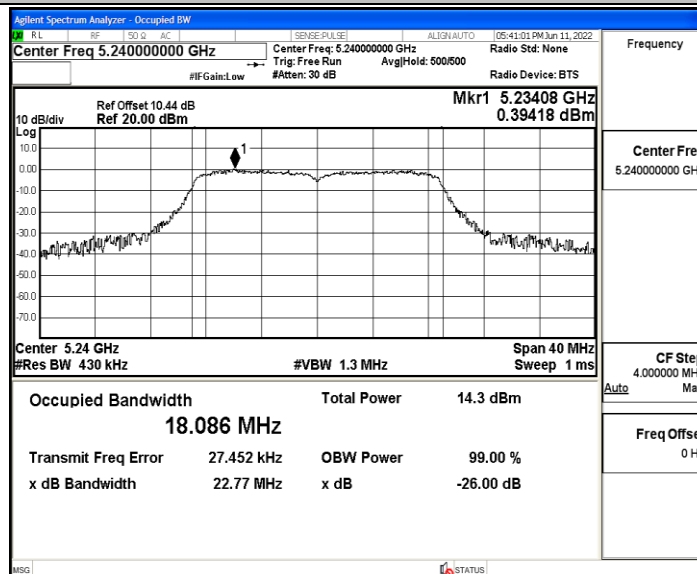
11N20SISO_Ant1_5180



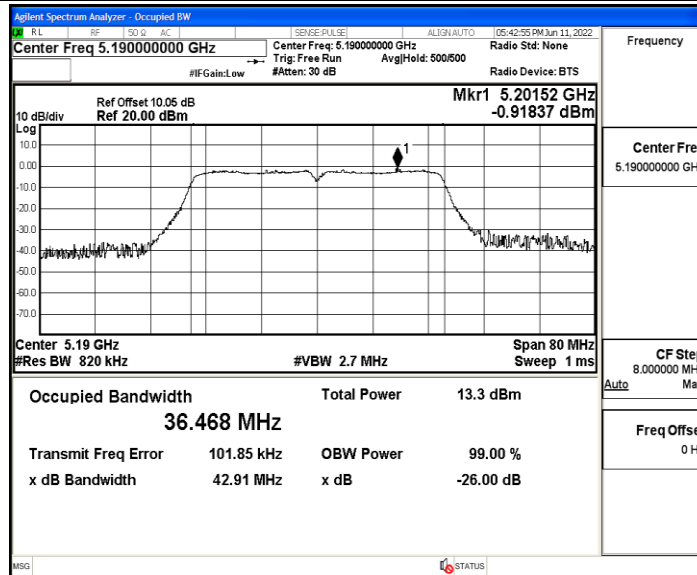
11N20SISO_Ant1_5200



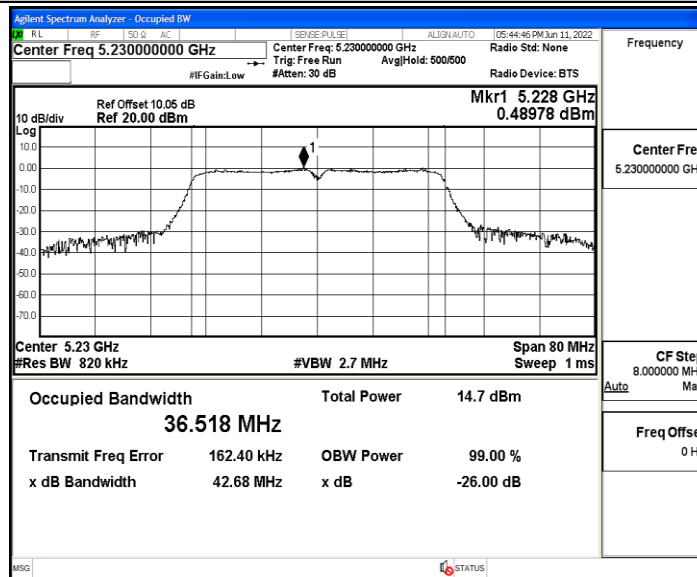
11N20SISO_Ant1_5240



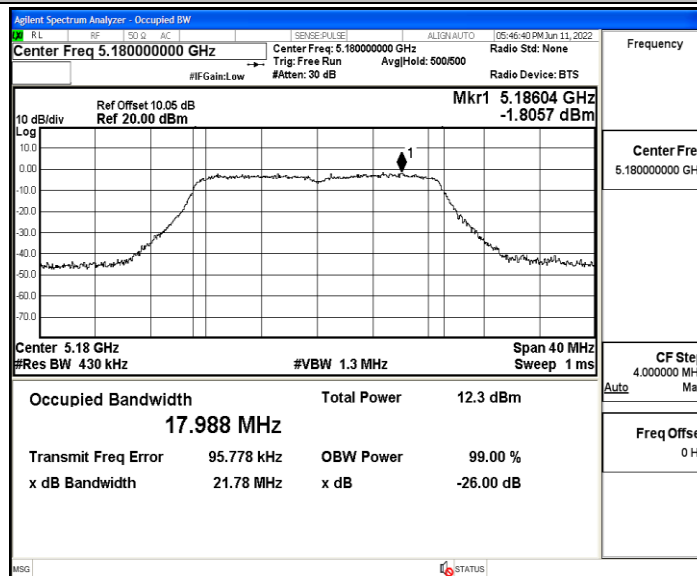
11N40SISO_Ant1_5190



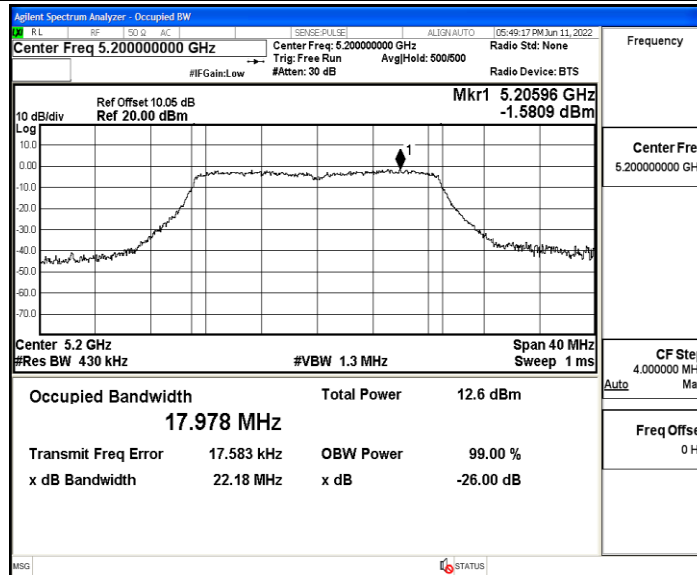
11N40SISO_Ant1_5230



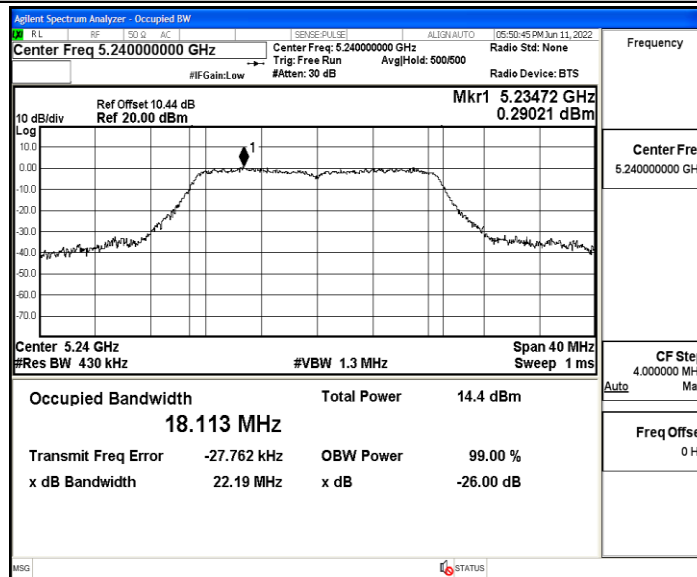
11AC20SISO_Ant1_5180



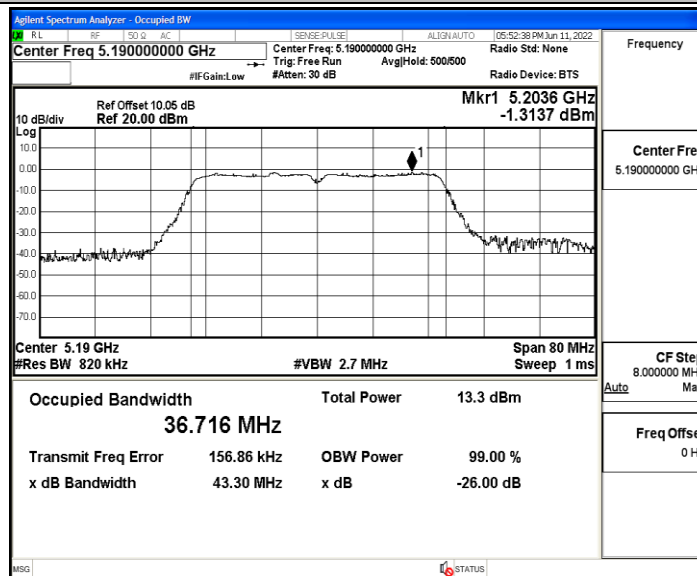
11AC20SISO_Ant1_5200



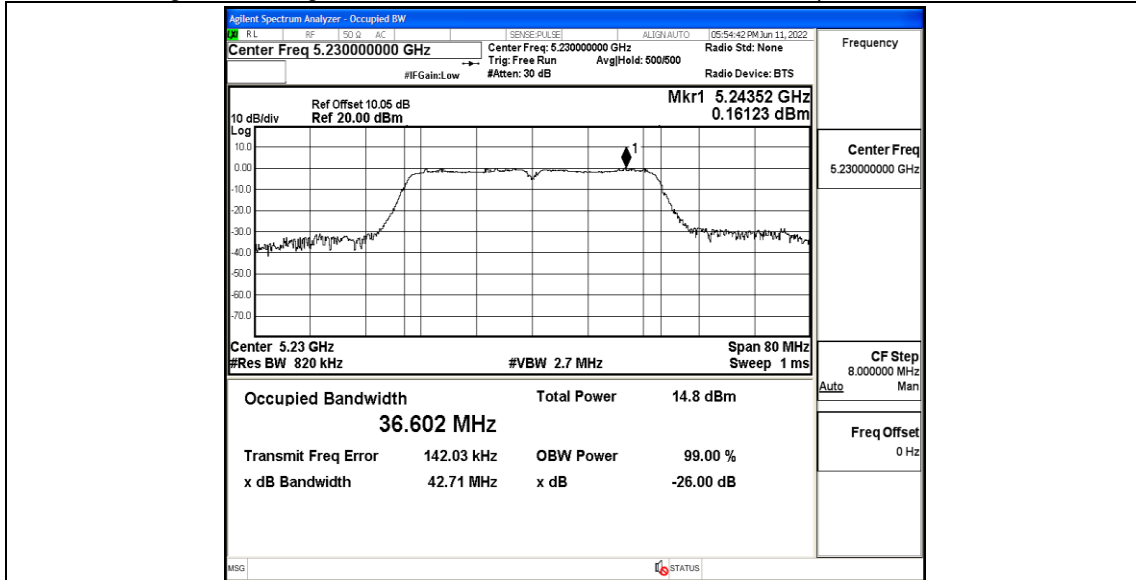
11AC20SISO_Ant1_5240



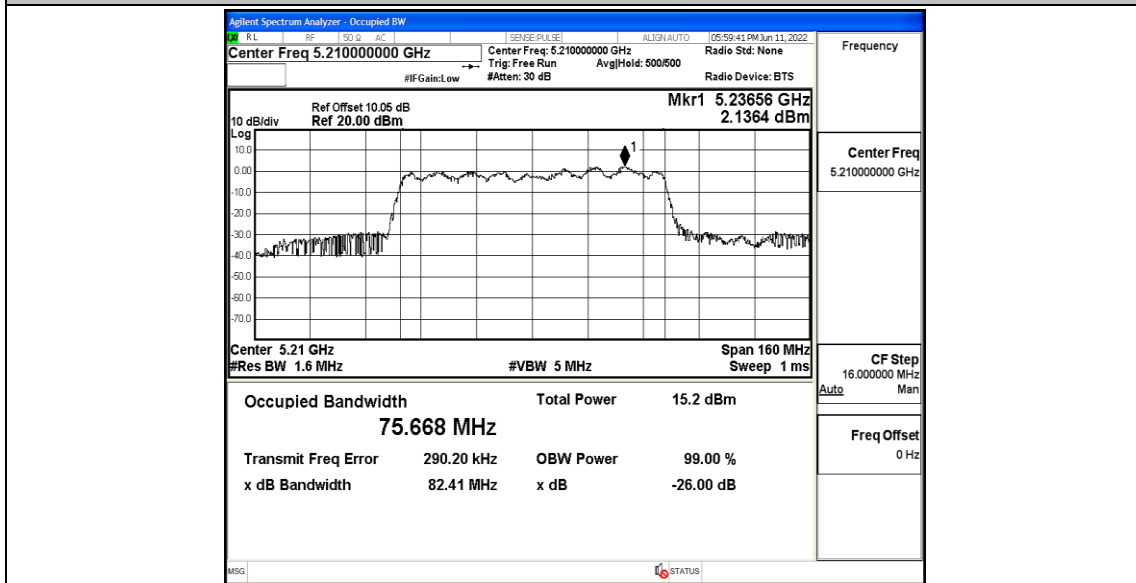
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.68	≤23.98	PASS
		5200	7.94	≤23.98	PASS
		5240	9.66	≤23.98	PASS
11N20SISO	Ant1	5180	5.79	≤23.98	PASS
		5200	5.95	≤23.98	PASS
		5240	7.72	≤23.98	PASS
11N40SISO	Ant1	5190	6.16	≤23.98	PASS
		5230	7.67	≤23.98	PASS
11AC20SISO	Ant1	5180	5.70	≤23.98	PASS
		5200	5.88	≤23.98	PASS
		5240	7.79	≤23.98	PASS
11AC40SISO	Ant1	5190	6.24	≤23.98	PASS
		5230	7.74	≤23.98	PASS
11AC80SISO	Ant1	5210	6.88	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

Test Result

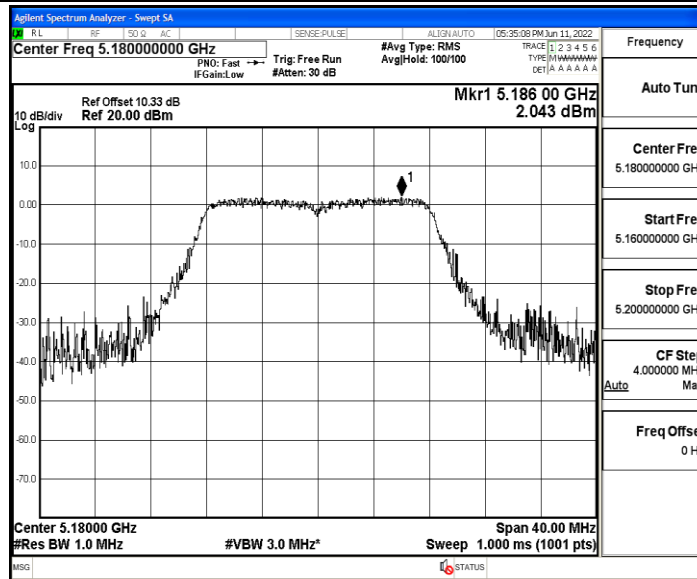
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.04	≤11.00	PASS
		5200	2.57	≤11.00	PASS
		5240	4.04	≤11.00	PASS
11N20SISO	Ant1	5180	-0.02	≤11.00	PASS
		5200	0.3	≤11.00	PASS
		5240	2.85	≤11.00	PASS
11N40SISO	Ant1	5190	-1.74	≤11.00	PASS
		5230	-0.68	≤11.00	PASS
11AC20SISO	Ant1	5180	0.25	≤11.00	PASS
		5200	0.06	≤11.00	PASS
		5240	2.36	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.96	≤11.00	PASS
		5230	-0.49	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.4	≤11.00	PASS

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

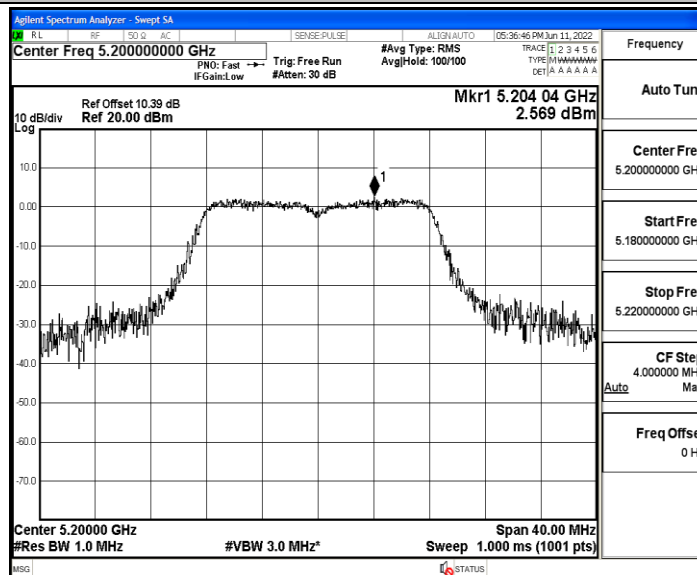
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

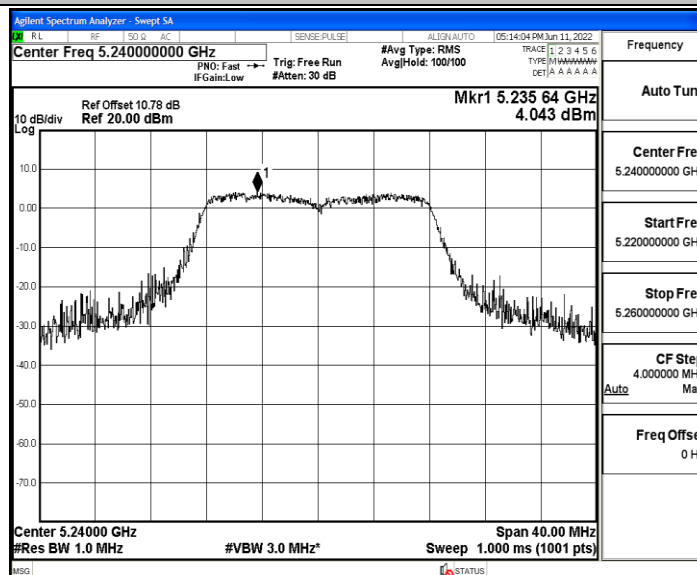
11A_Ant1_5180



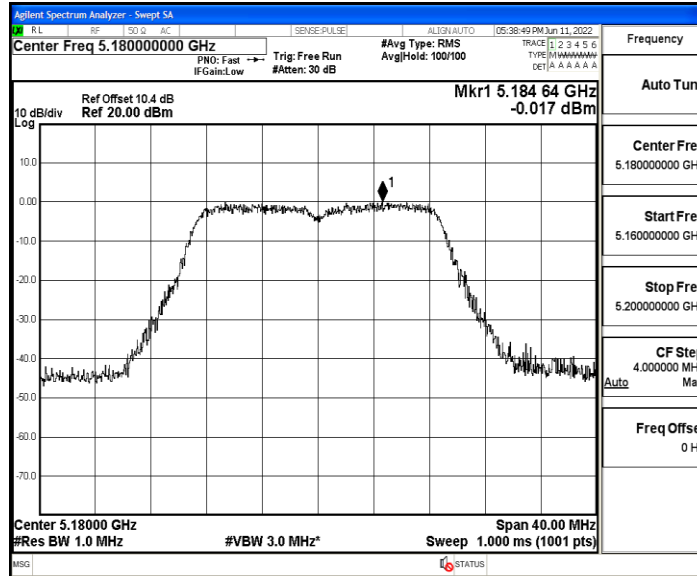
11A_Ant1_5200



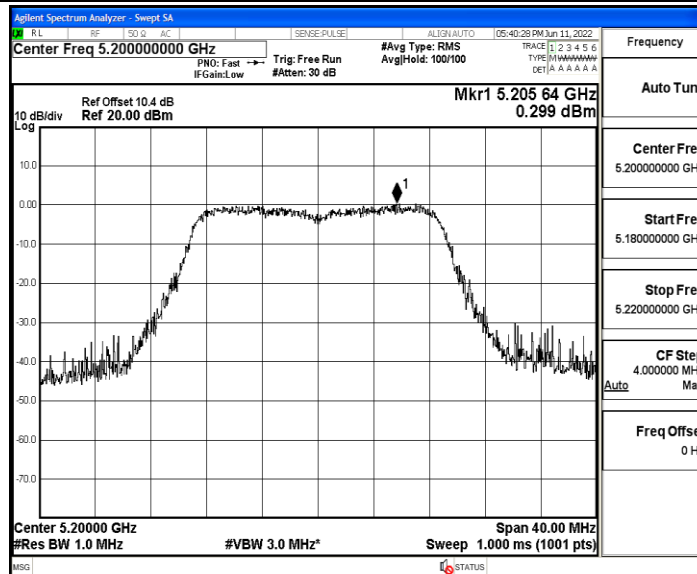
11A_Ant1_5240



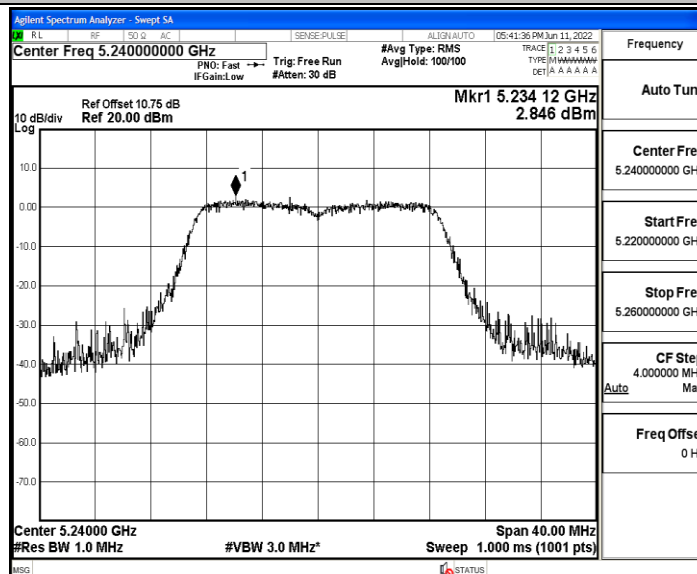
11N20SISO_Ant1_5180



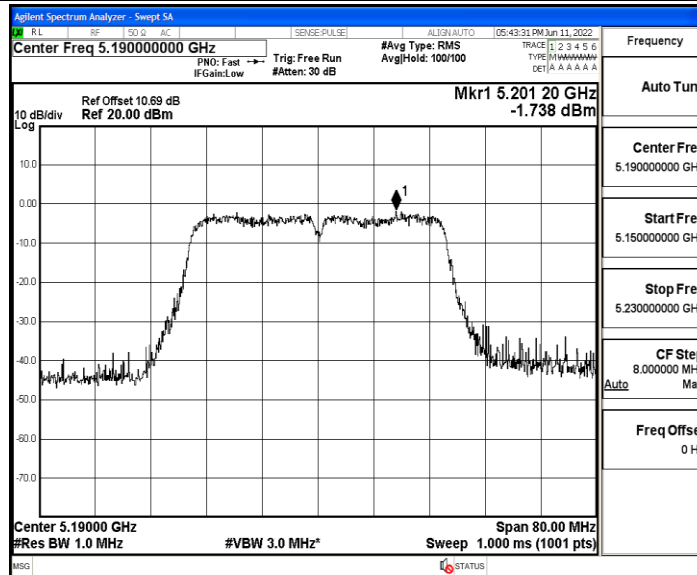
11N20SISO_Ant1_5200



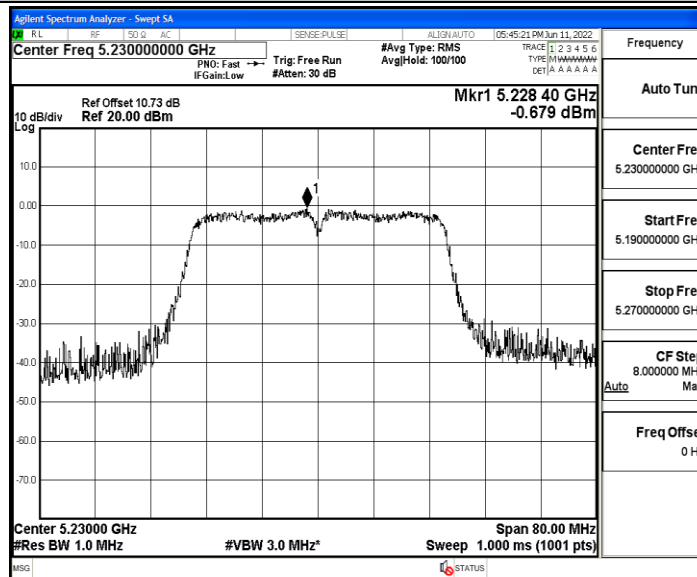
11N20SISO_Ant1_5240



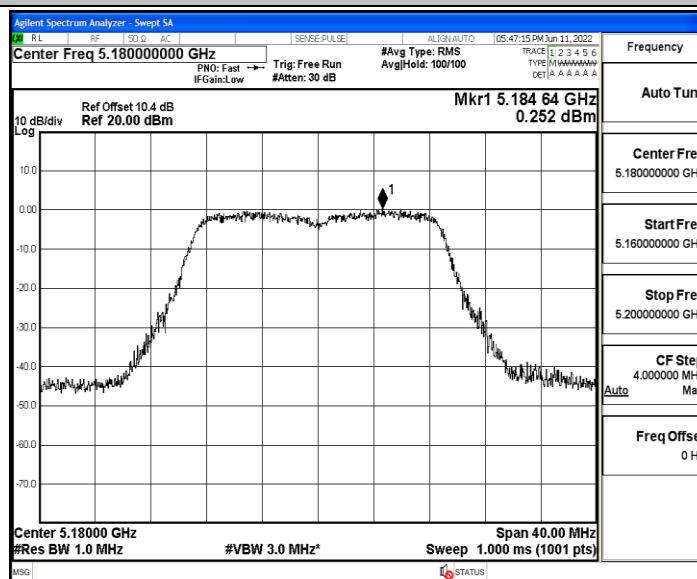
11N40SISO_Ant1_5190



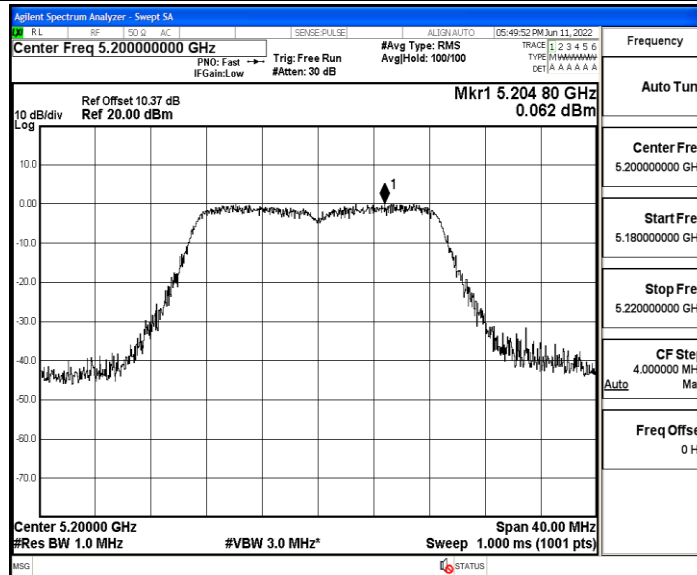
11N40SISO_Ant1_5230



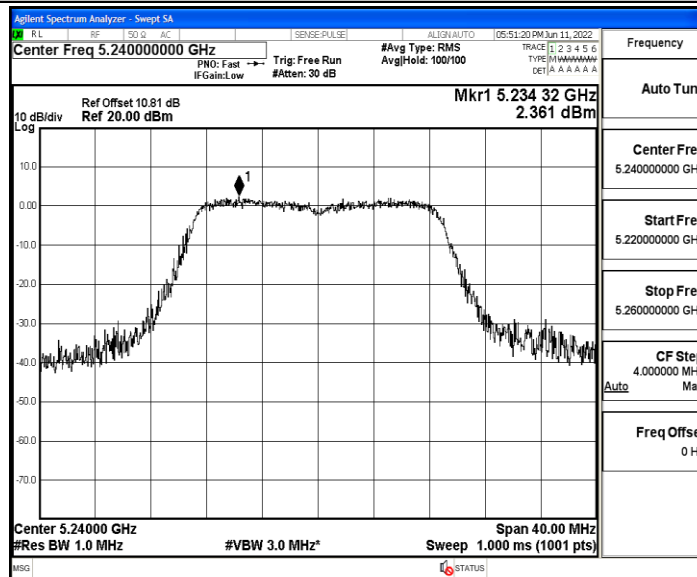
11AC20SISO_Ant1_5180



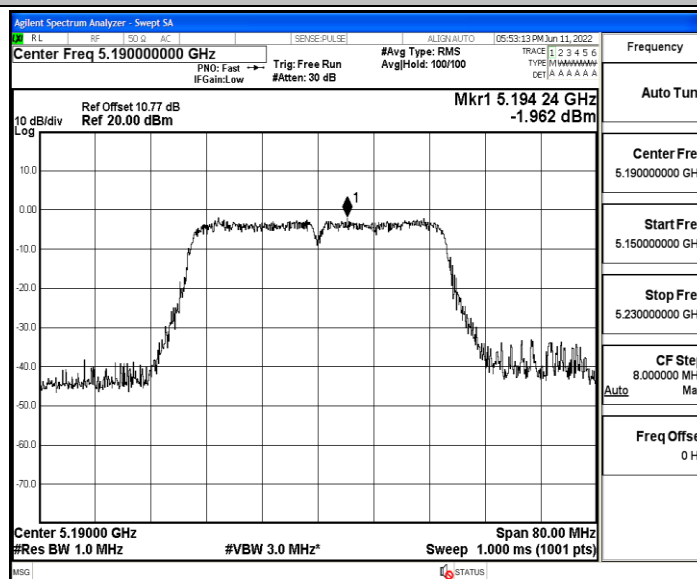
11AC20SISO_Ant1_5200



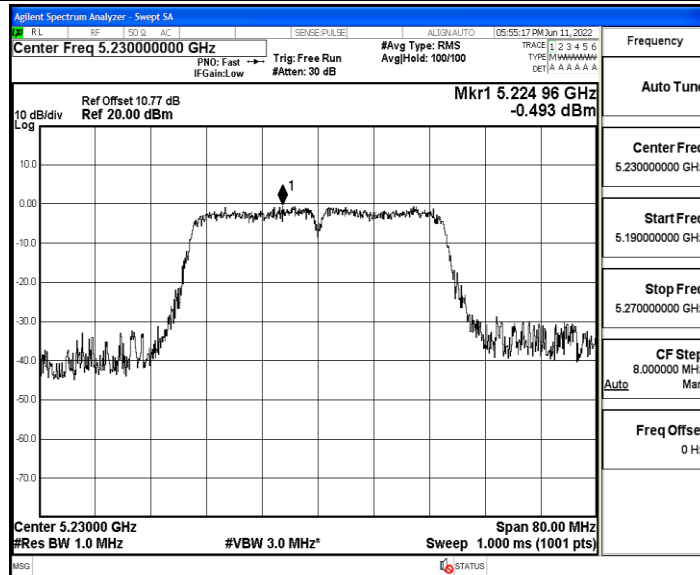
11AC20SISO_Ant1_5240



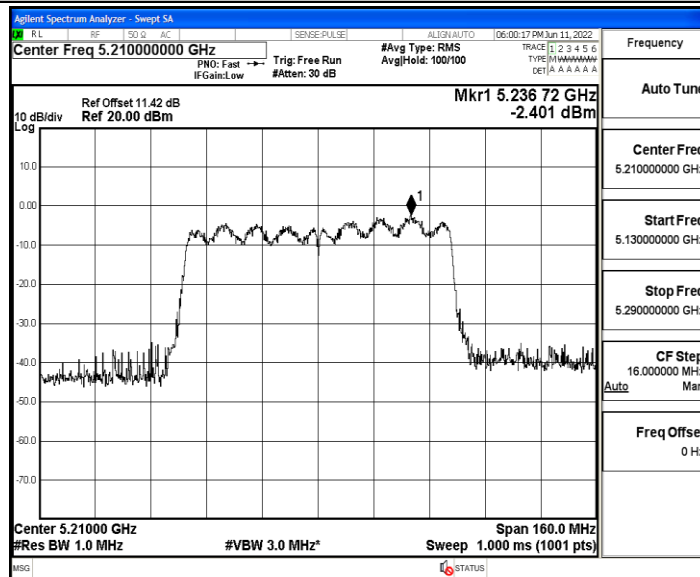
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



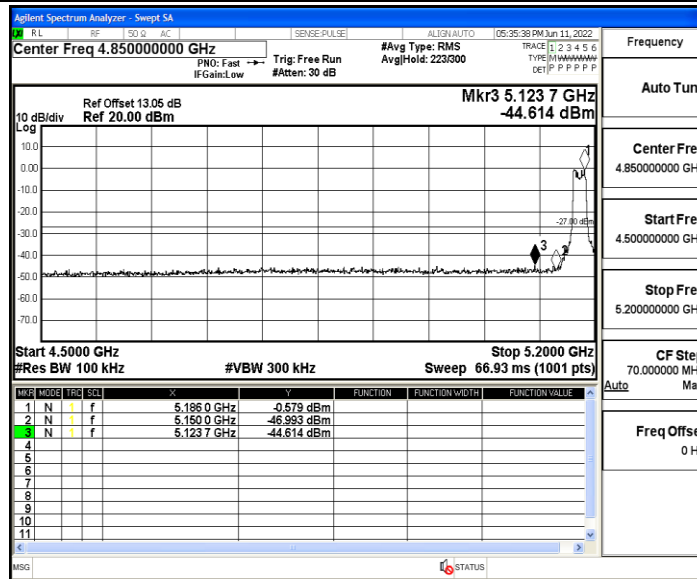
Appendix D: Band edge measurements

Test Result

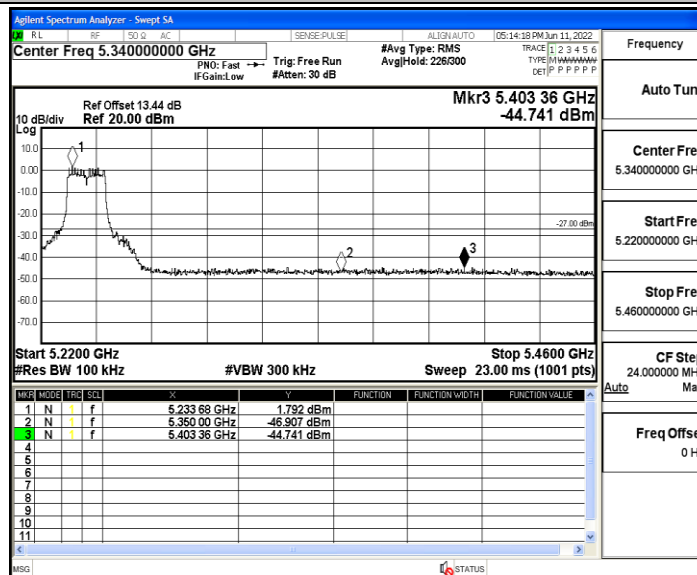
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-44.61	≤ -27	PASS
		High	5240	-44.74	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-45.19	≤ -27	PASS
		High	5240	-44.34	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-45.1	≤ -27	PASS
		High	5230	-44.86	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-44.84	≤ -27	PASS
		High	5240	-45	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-45.05	≤ -27	PASS
		High	5230	-44.13	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-45.15	≤ -27	PASS
		High	5210	-44.81	≤ -27	PASS

Test Graphs

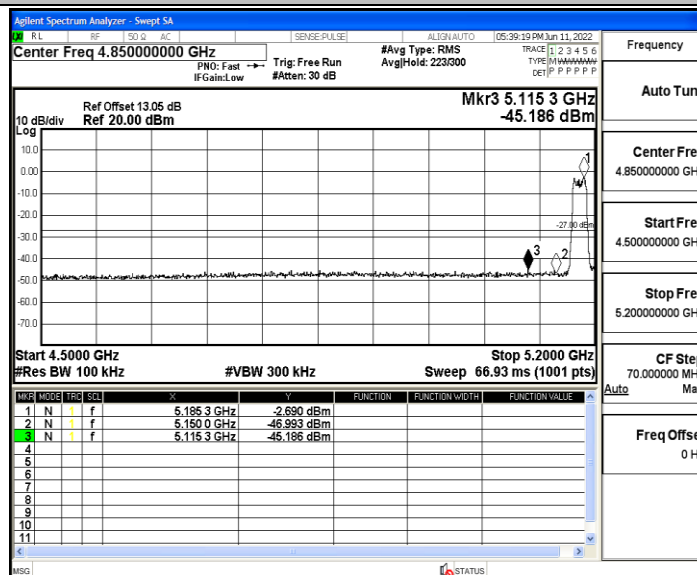
11A_Ant1_Low_5180



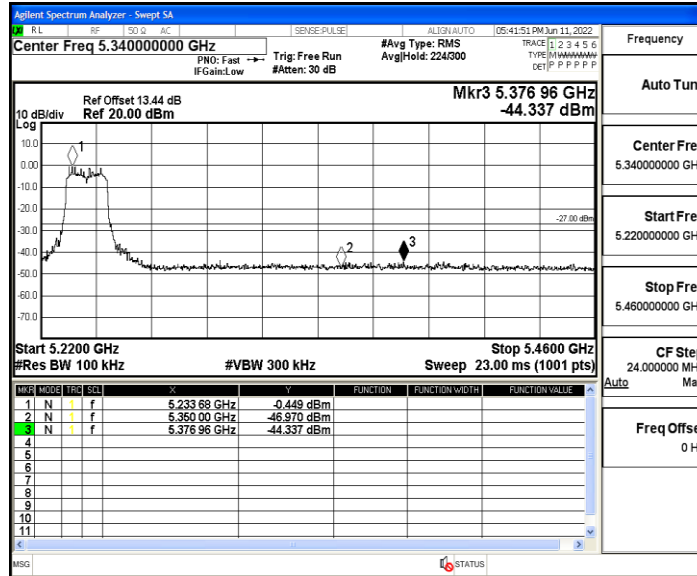
11A_Ant1_High_5240



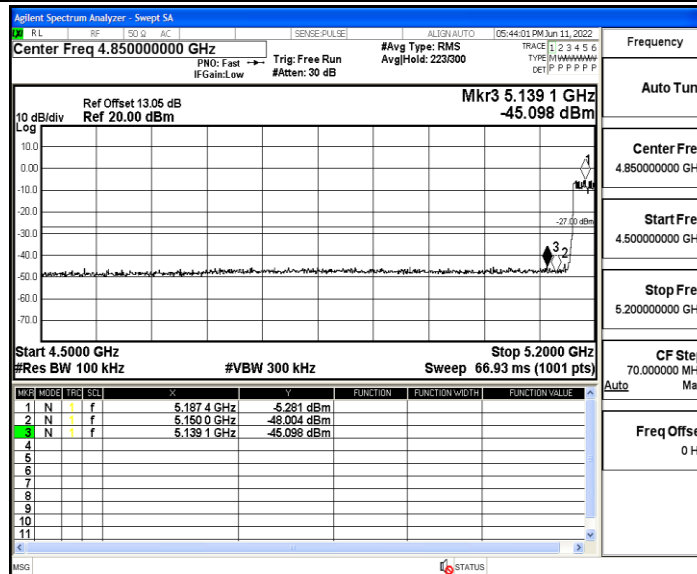
11N20SISO_Ant1_Low_5180



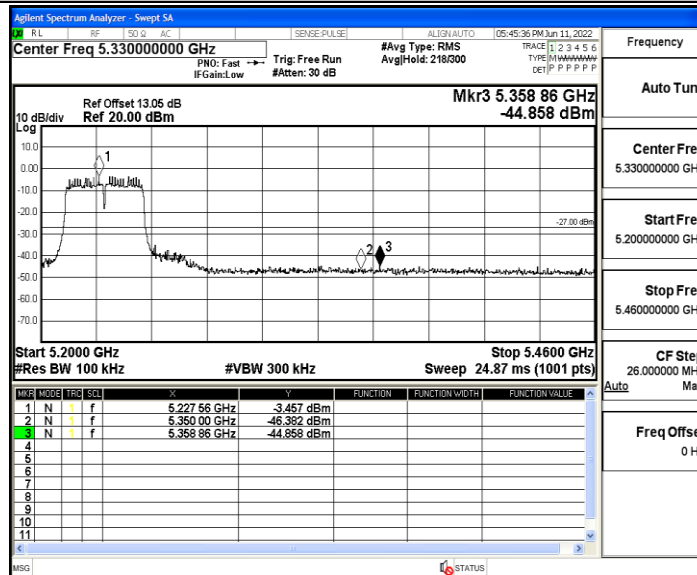
11N20SISO_Ant1_High_5240



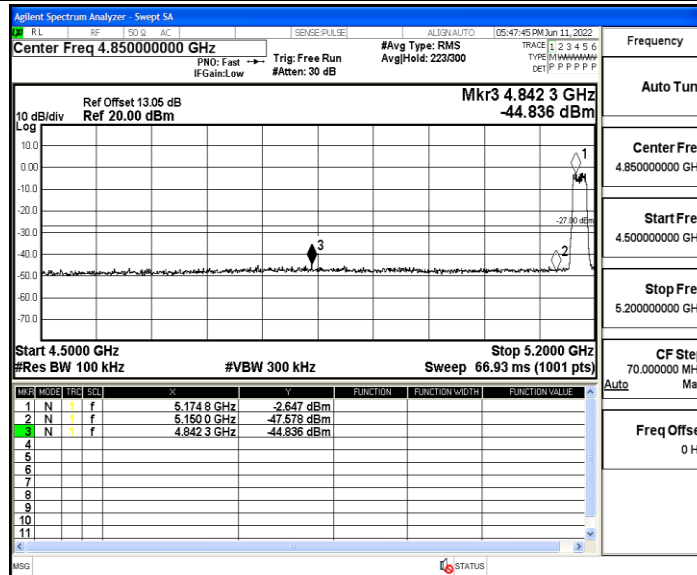
11N40SISO_Ant1_Low_5190



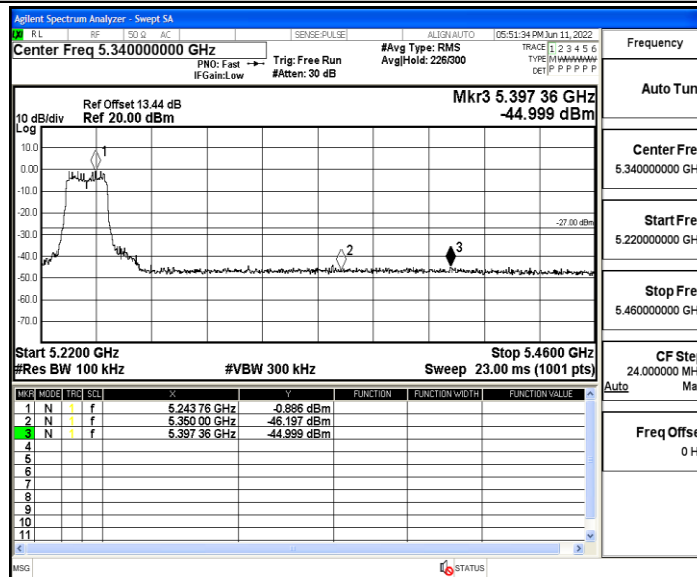
11N40SISO_Ant1_High_5230



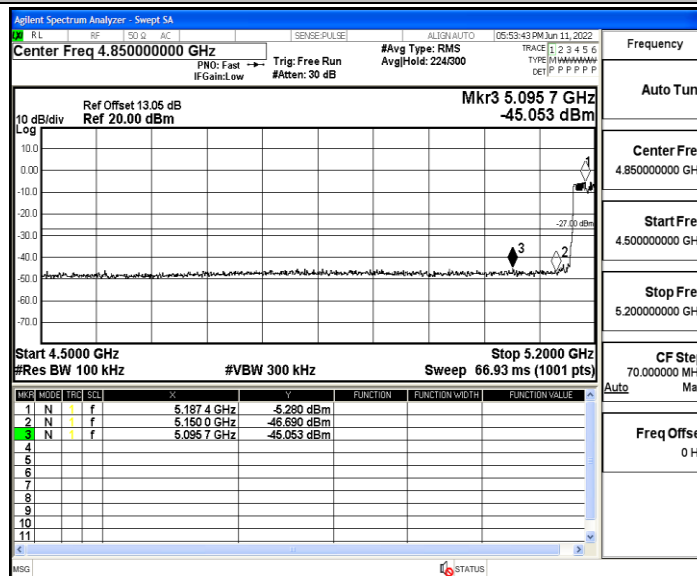
11AC20SISO_Ant1_Low_5180



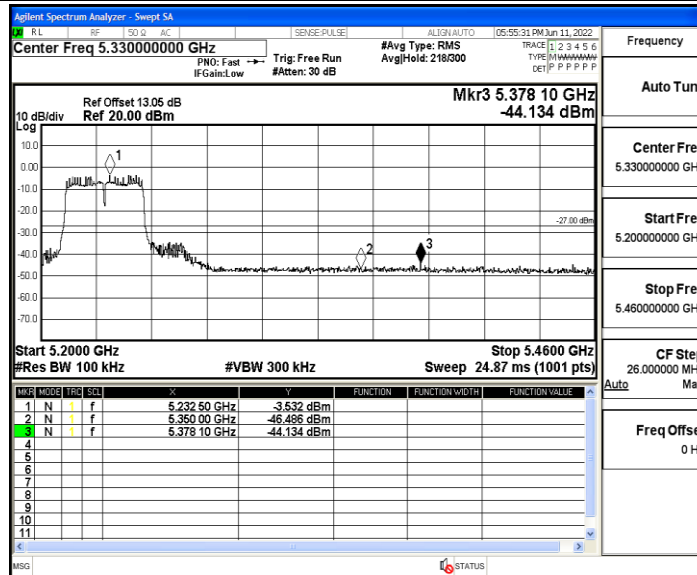
11AC20SISO_Ant1_High_5240



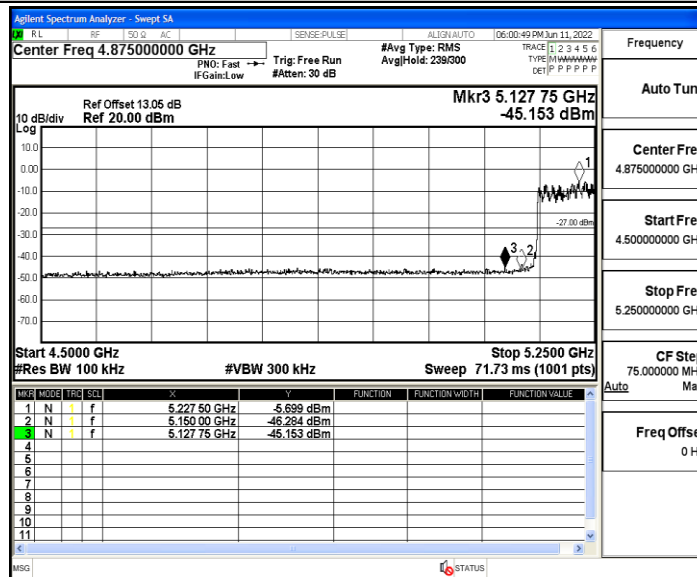
11AC40SISO_Ant1_Low_5190



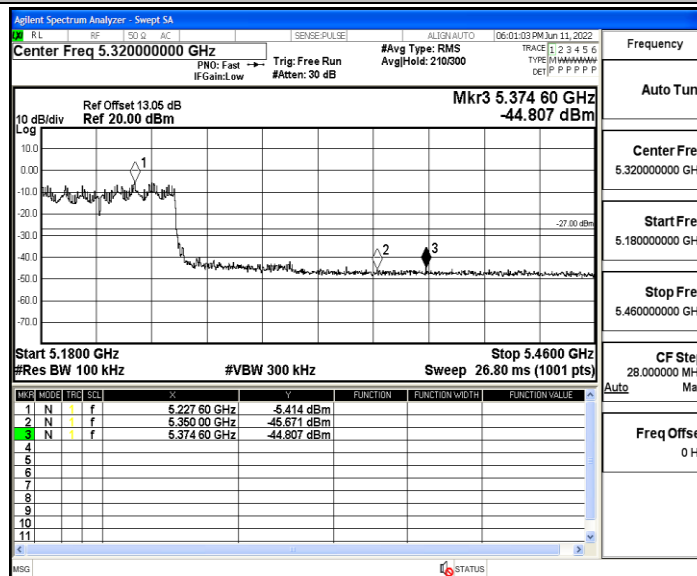
11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



Appendix E: Frequency Stability

Test Result

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.964141	5150 – 5250	PASS
5180	20	108	5180.006982	5150 – 5250	PASS
5180	50	120	5179.904757	5150 – 5250	PASS
5180	40	120	5179.963111	5150 – 5250	PASS
5180	30	120	5180.050827	5150 – 5250	PASS
5180	20	120	5180.044611	5150 – 5250	PASS
5180	10	120	5179.994097	5150 – 5250	PASS
5180	0	120	5180.089378	5150 – 5250	PASS
5180	-10	120	5179.934791	5150 – 5250	PASS
5180	-20	120	5179.922490	5150 – 5250	PASS
5180	-30	120	5180.034015	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.991603	5150 – 5250	PASS
5200	20	108	5199.980655	5150 – 5250	PASS
5200	50	120	5199.960545	5150 – 5250	PASS
5200	40	120	5199.930255	5150 – 5250	PASS
5200	30	120	5199.964910	5150 – 5250	PASS
5200	20	120	5199.914643	5150 – 5250	PASS
5200	10	120	5199.999797	5150 – 5250	PASS
5200	0	120	5199.937782	5150 – 5250	PASS
5200	-10	120	5200.022857	5150 – 5250	PASS
5200	-20	120	5199.905512	5150 – 5250	PASS
5200	-30	120	5200.067260	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.025057	5150 – 5250	PASS
5240	20	108	5239.915015	5150 – 5250	PASS
5240	50	120	5239.985327	5150 – 5250	PASS
5240	40	120	5239.912786	5150 – 5250	PASS
5240	30	120	5240.068104	5150 – 5250	PASS
5240	20	120	5239.962817	5150 – 5250	PASS
5240	10	120	5239.982228	5150 – 5250	PASS
5240	0	120	5240.086647	5150 – 5250	PASS
5240	-10	120	5239.986407	5150 – 5250	PASS
5240	-20	120	5239.994770	5150 – 5250	PASS
5240	-30	120	5239.916835	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.075286	5150 – 5250	PASS
5190	20	108	5190.032962	5150 – 5250	PASS
5190	50	120	5190.058876	5150 – 5250	PASS
5190	40	120	5189.963420	5150 – 5250	PASS
5190	30	120	5189.933710	5150 – 5250	PASS
5190	20	120	5190.066515	5150 – 5250	PASS
5190	10	120	5190.001182	5150 – 5250	PASS
5190	0	120	5190.017929	5150 – 5250	PASS
5190	-10	120	5190.091537	5150 – 5250	PASS
5190	-20	120	5190.000000	5150 – 5250	PASS
5190	-30	120	5189.979985	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.917817	5150 – 5250	PASS
5230	20	108	5229.935469	5150 – 5250	PASS
5230	50	120	5230.076845	5150 – 5250	PASS
5230	40	120	5230.077970	5150 – 5250	PASS
5230	30	120	5229.997824	5150 – 5250	PASS
5230	20	120	5229.913447	5150 – 5250	PASS
5230	10	120	5230.036967	5150 – 5250	PASS
5230	0	120	5229.926978	5150 – 5250	PASS
5230	-10	120	5229.981808	5150 – 5250	PASS
5230	-20	120	5229.984555	5150 – 5250	PASS
5230	-30	120	5230.052607	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.085401	5150 – 5250	PASS
5210	20	108	5209.959386	5150 – 5250	PASS
5210	50	120	5210.023608	5150 – 5250	PASS
5210	40	120	5209.915737	5150 – 5250	PASS
5210	30	120	5210.007981	5150 – 5250	PASS
5210	20	120	5210.000863	5150 – 5250	PASS
5210	10	120	5209.953246	5150 – 5250	PASS
5210	0	120	5210.044003	5150 – 5250	PASS
5210	-10	120	5210.006208	5150 – 5250	PASS
5210	-20	120	5210.073894	5150 – 5250	PASS
5210	-30	120	5209.908295	5150 – 5250	PASS

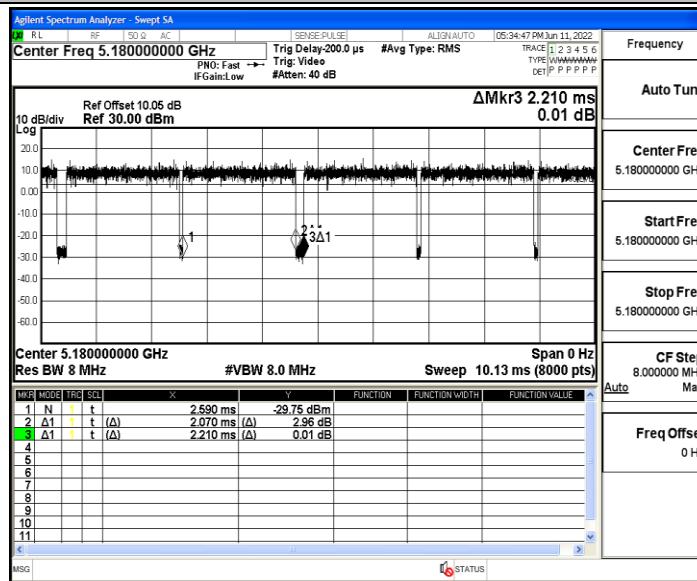
Appendix F: Duty Cycle

Test Result

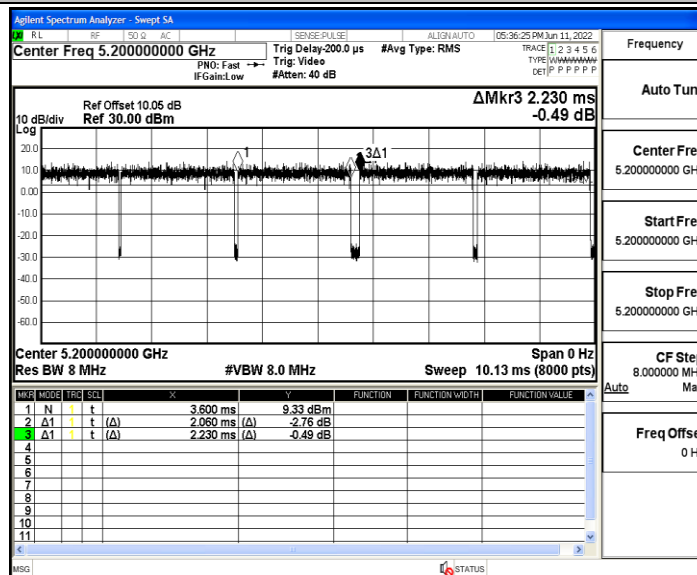
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5180	2.07	2.21	93.67	0.48
		5200	2.06	2.23	92.38	0.49
		5240	2.06	2.23	92.38	0.49
11N20SISO	Ant1	5180	1.92	2.08	92.31	0.52
		5200	1.92	2.08	92.31	0.52
		5240	1.92	2.06	93.20	0.52
11N40SISO	Ant1	5190	0.95	1.10	86.36	1.05
		5230	0.95	1.11	85.59	1.05
11AC20SISO	Ant1	5180	1.93	2.09	92.34	0.52
		5200	1.94	2.09	92.82	0.52
		5240	1.93	2.10	91.90	0.52
11AC40SISO	Ant1	5190	0.95	1.12	84.82	1.05
		5230	0.95	1.12	84.82	1.05
11AC80SISO	Ant1	5210	0.46	0.63	73.02	2.17

Test Graphs

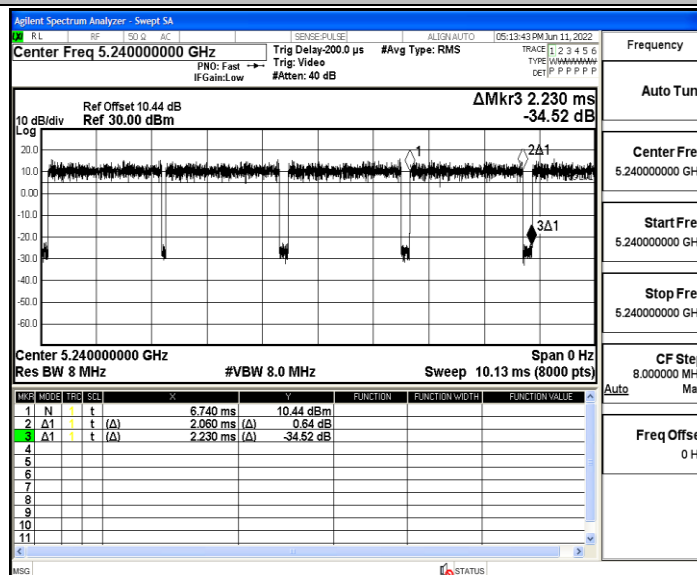
11A_Ant1_5180



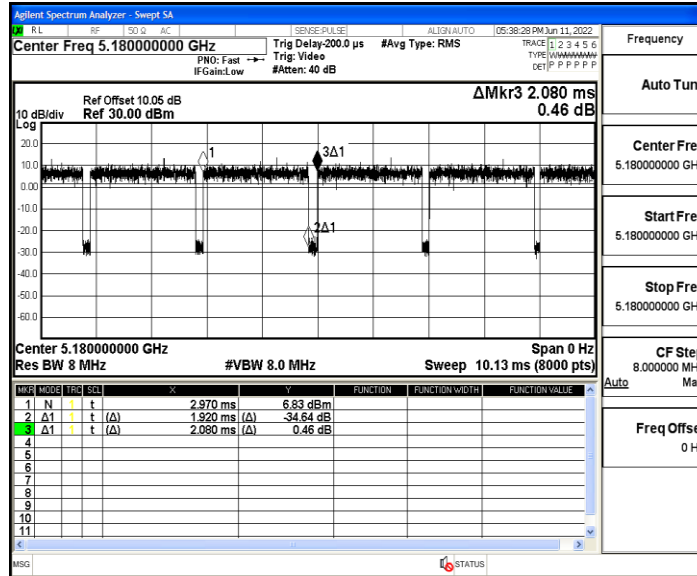
11A_Ant1_5200



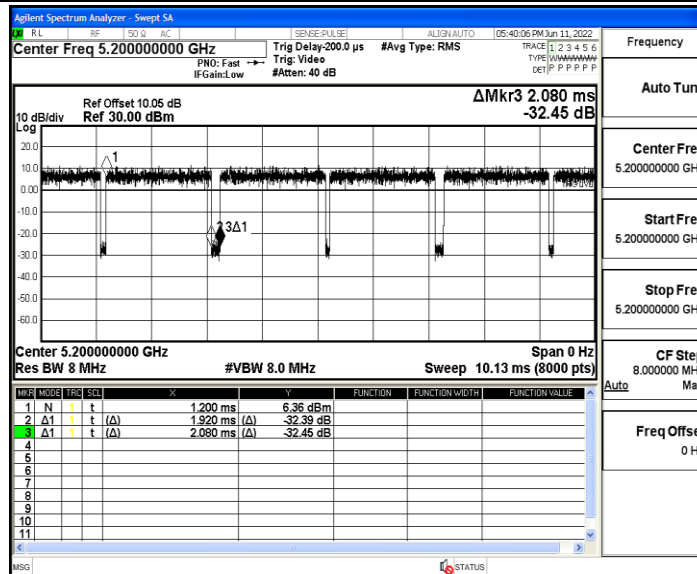
11A_Ant1_5240



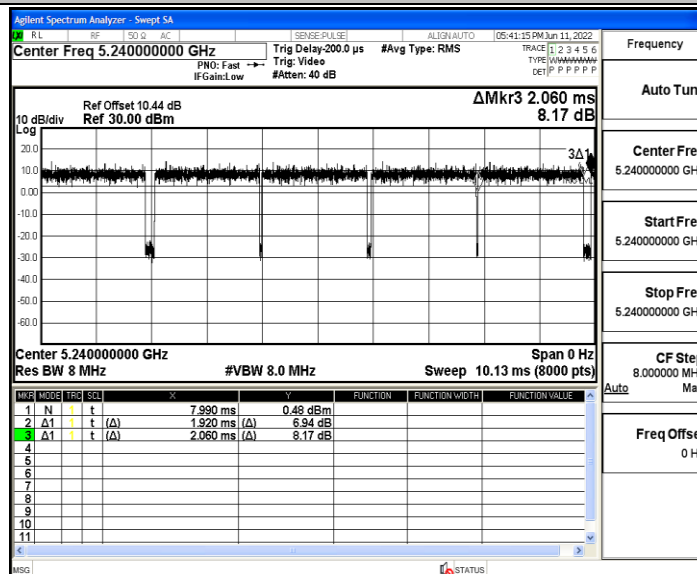
11N20SISO_Ant1_5180



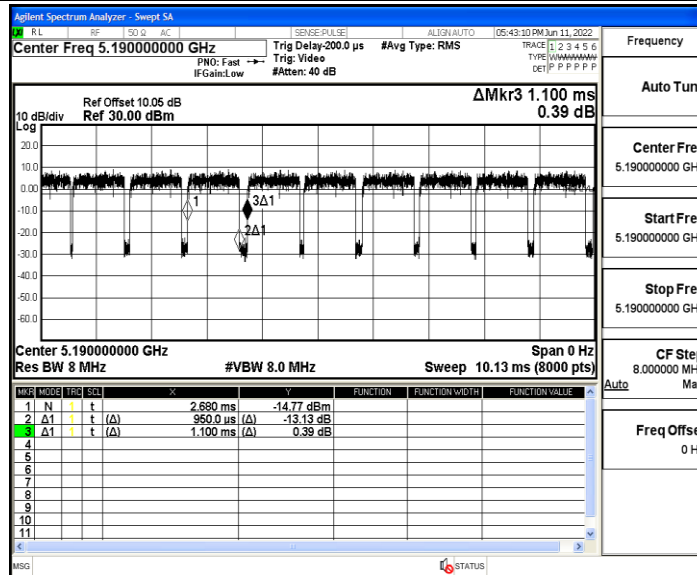
11N20SISO_Ant1_5200



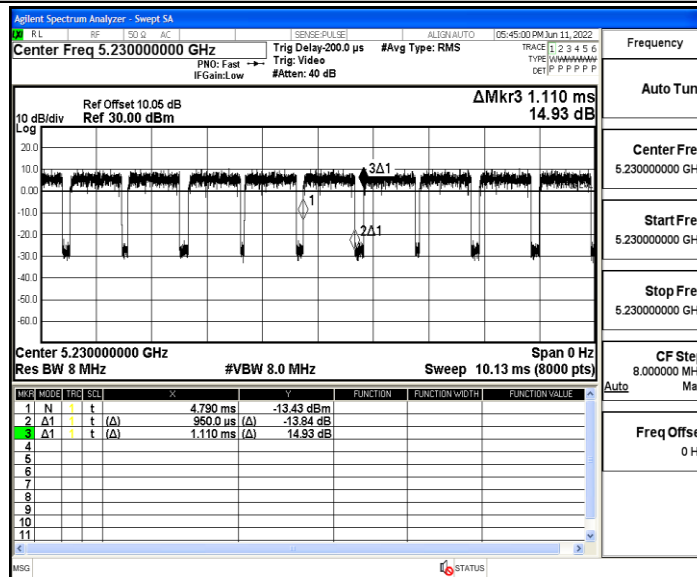
11N20SISO_Ant1_5240



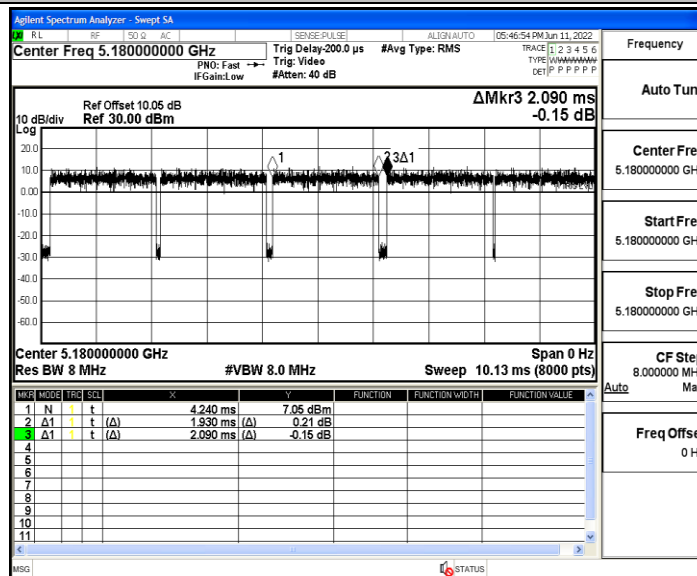
11N40SISO_Ant1_5190



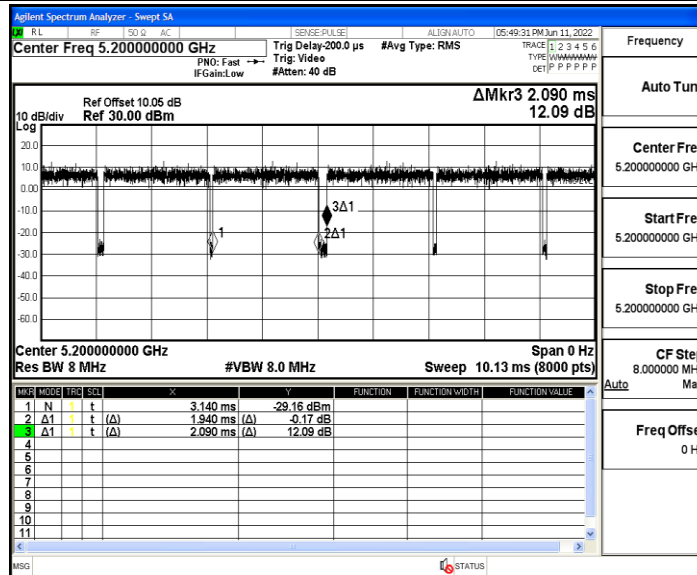
11N40SISO_Ant1_5230



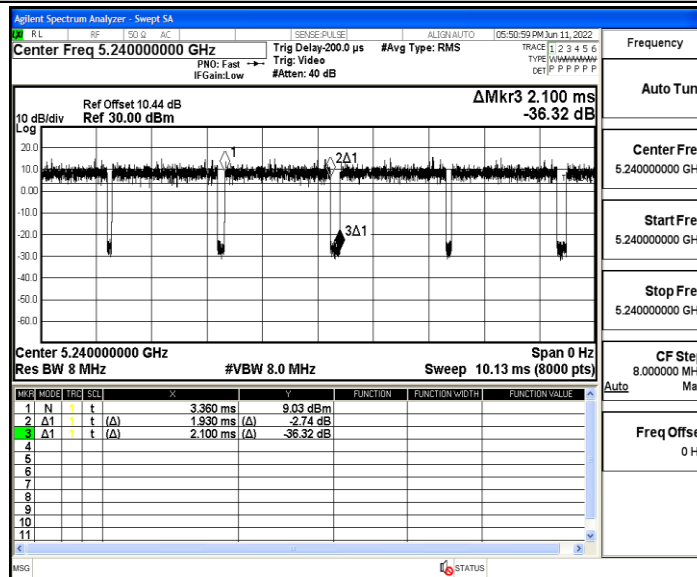
11AC20SISO_Ant1_5180



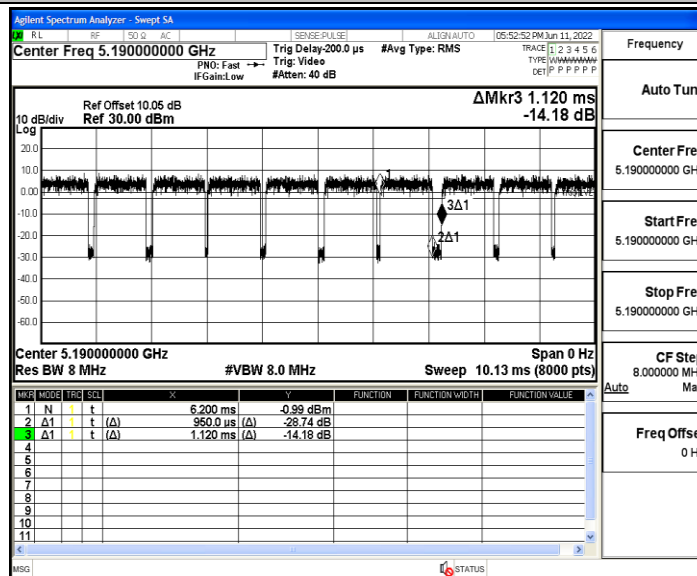
11AC20SISO_Ant1_5200



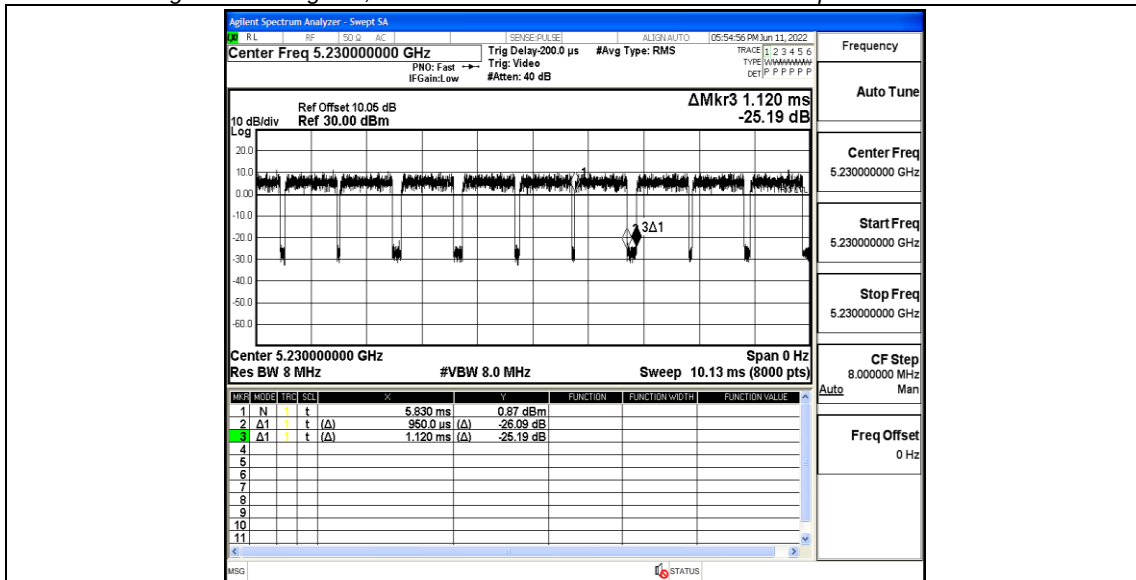
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

