

FCC Appendix RF Test Data

FCC ID : S29-P2

Company: : GuangZhou Walkera Technology Co., Ltd

EUT : Remote Control

Model Number : P2

Report No. : CTA25051000701

Reviewed By : Eric Wang

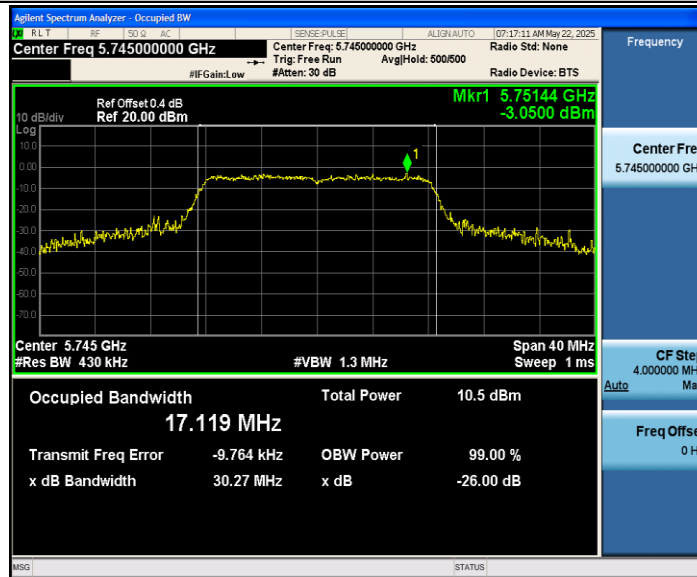
Appendix A1: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.119	5736.4307	5753.5497	---	---
		5785	17.102	5776.4663	5793.5683	---	---
		5825	17.055	5816.4949	5833.5499	---	---
11N20SISO	Ant1	5745	18.081	5735.9357	5754.0167	---	---
		5785	18.067	5775.9910	5794.0580	---	---
		5825	18.074	5816.0437	5834.1177	---	---
11N40SISO	Ant1	5755	36.841	5736.6764	5773.5174	---	---
		5795	36.839	5776.7617	5813.6007	---	---
11AC20SISO	Ant1	5745	17.904	5736.0713	5753.9753	---	---
		5785	17.927	5776.0925	5794.0195	---	---
		5825	17.856	5816.1474	5834.0034	---	---
11AC40SISO	Ant1	5755	36.783	5736.7624	5773.5454	---	---
		5795	36.772	5776.7682	5813.5402	---	---
11AC80SISO	Ant1	5775	75.982	5737.2030	5813.1850	---	---

Test Graphs

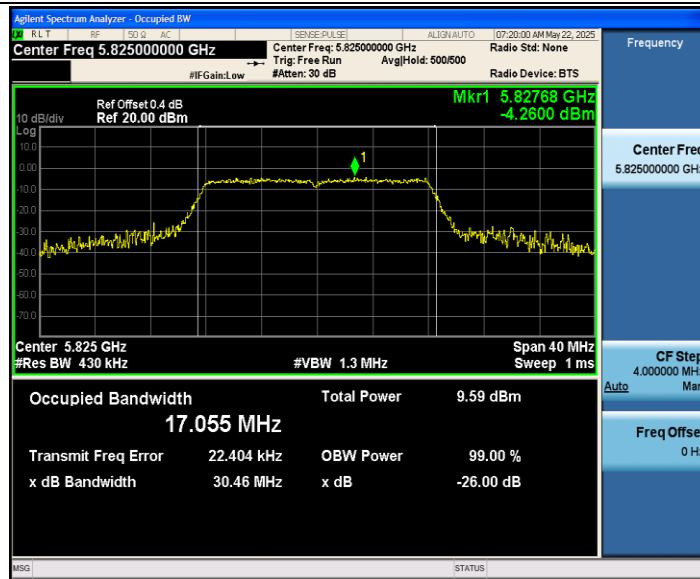
11A_Ant1_5745



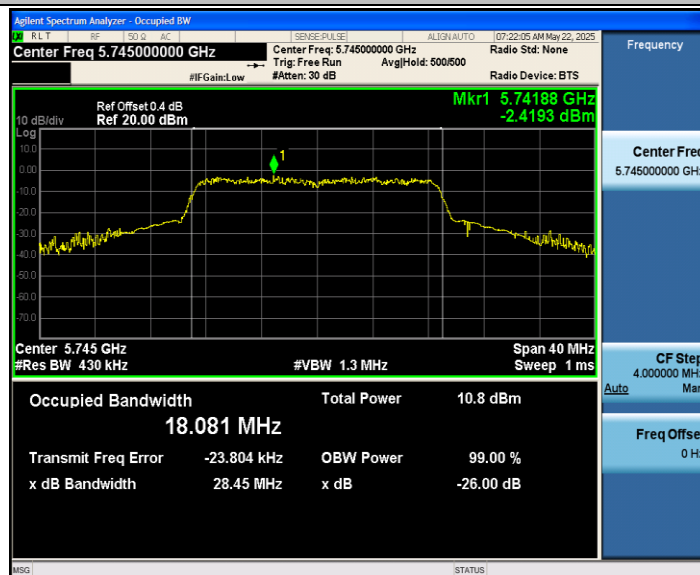
11A_Ant1_5785



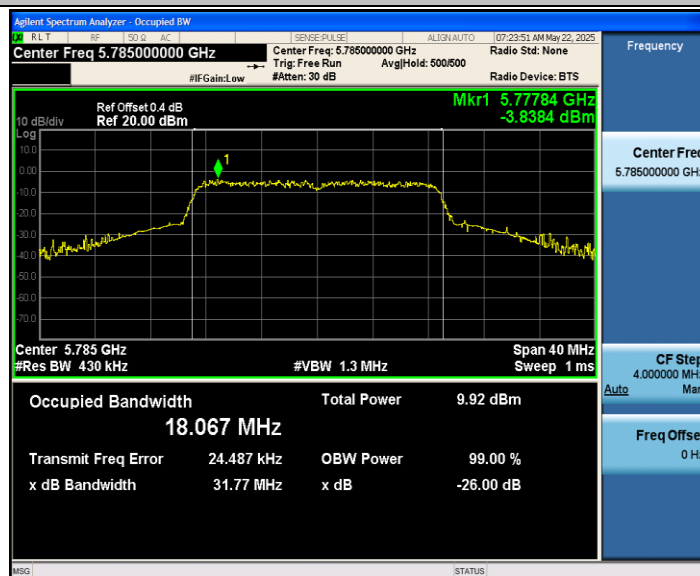
11A_Ant1_5825



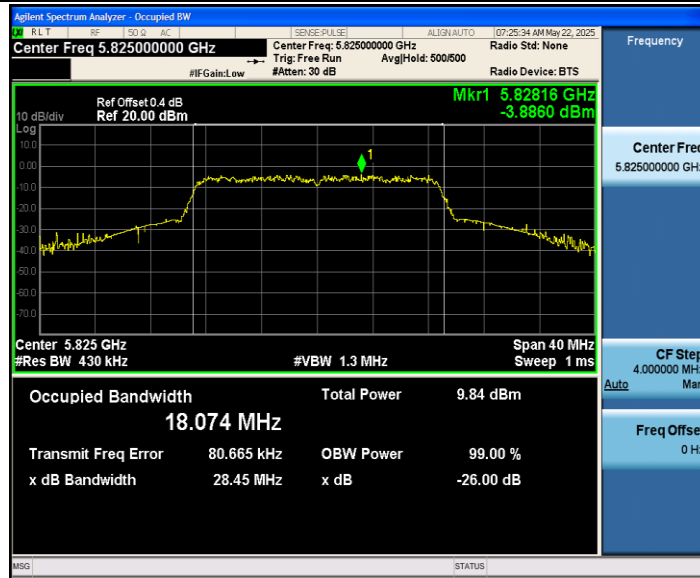
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



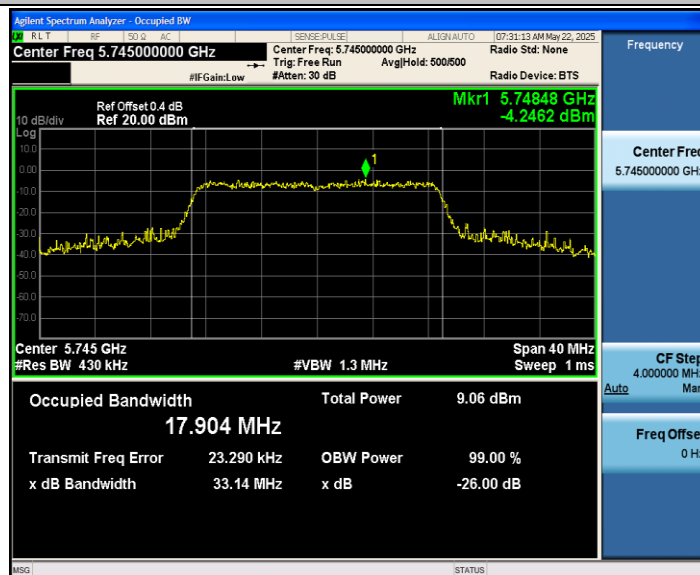
11N40SISO_Ant1_5755



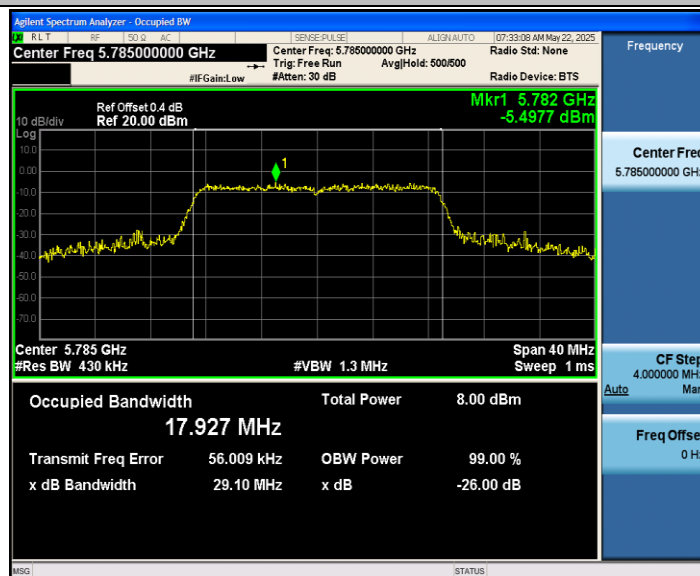
11N40SISO_Ant1_5795



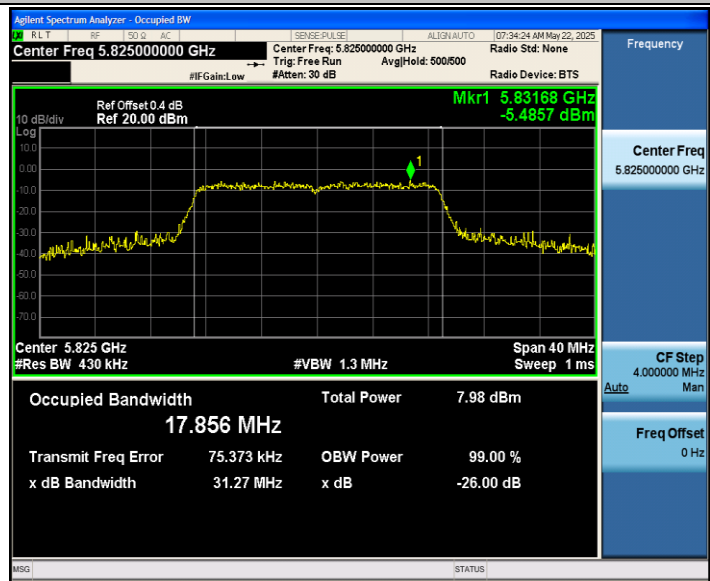
11AC20SISO_Ant1_5745



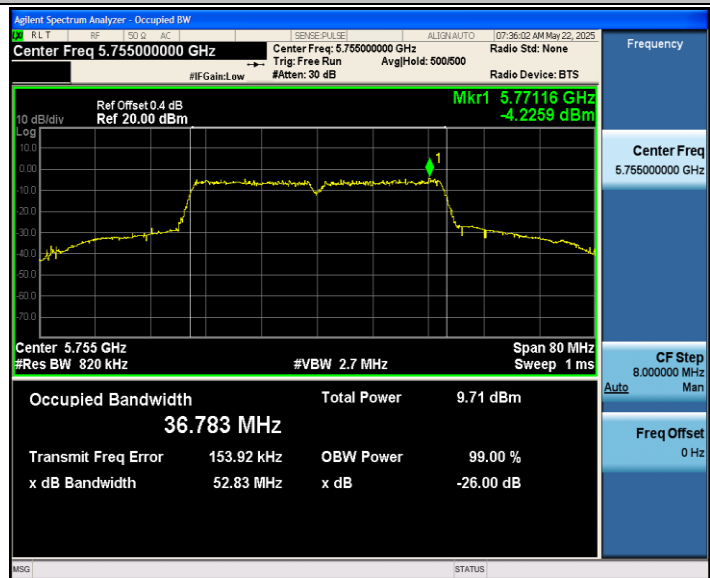
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



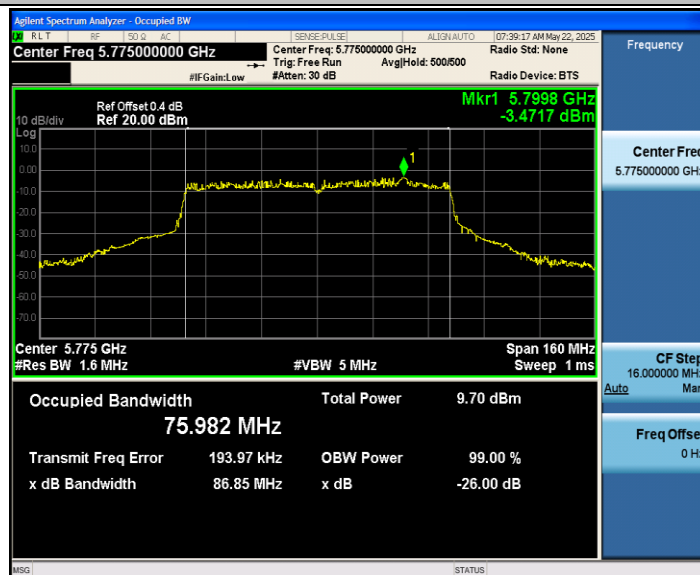
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



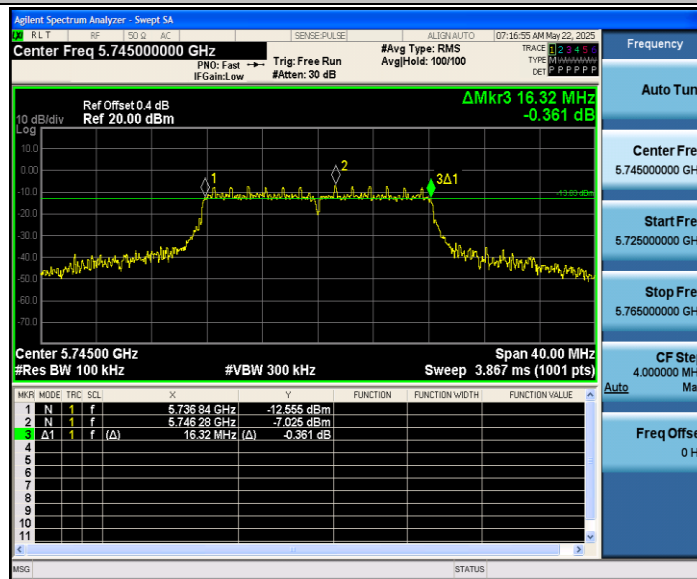
Appendix A2: Min emission bandwidth

Test Result B4

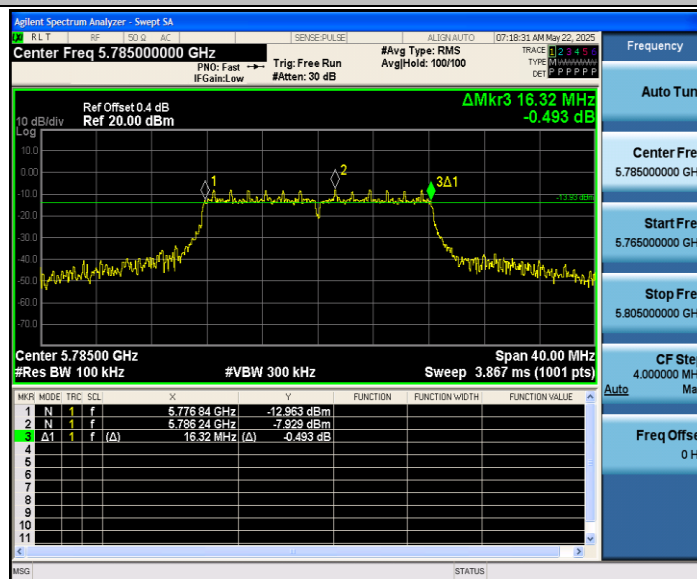
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	16.880	5736.480	5753.360	0.5	PASS
		5785	16.720	5776.640	5793.360	0.5	PASS
		5825	16.920	5816.480	5833.400	0.5	PASS
11N40SISO	Ant1	5755	35.920	5737.160	5773.080	0.5	PASS
		5795	35.680	5777.400	5813.080	0.5	PASS
11AC20SISO	Ant1	5745	16.960	5736.520	5753.480	0.5	PASS
		5785	17.080	5776.400	5793.480	0.5	PASS
		5825	17.160	5816.360	5833.520	0.5	PASS
11AC40SISO	Ant1	5755	36.080	5737.000	5773.080	0.5	PASS
		5795	35.680	5777.240	5812.920	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4

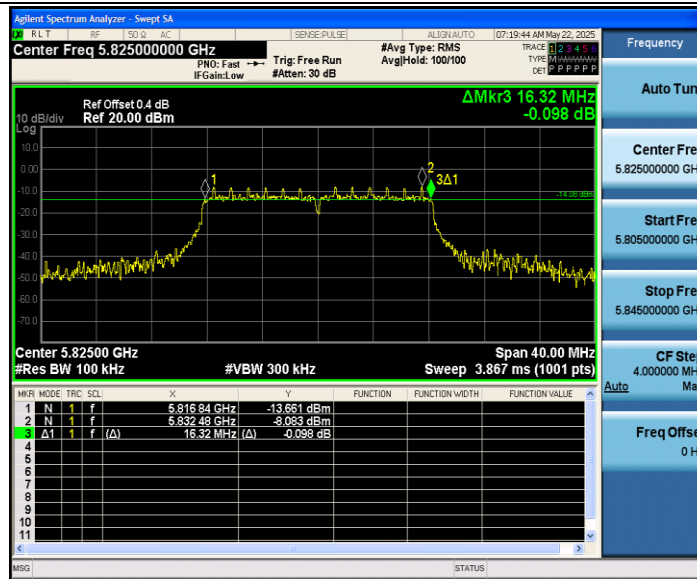
11A_Ant1_5745



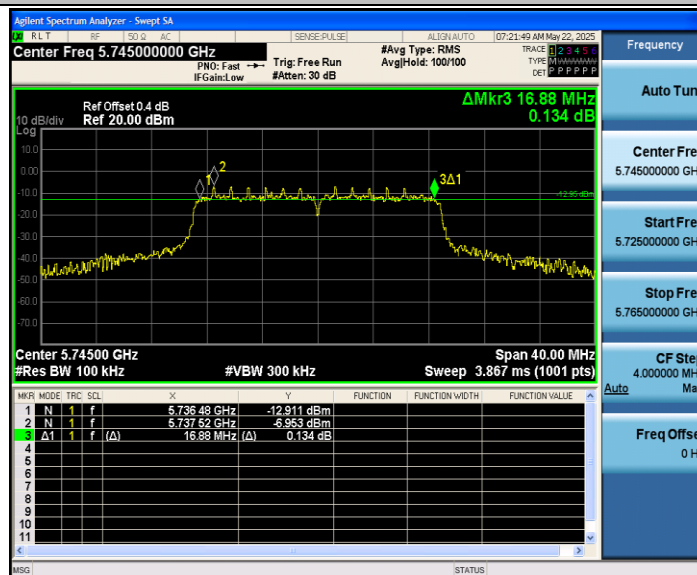
11A_Ant1_5785



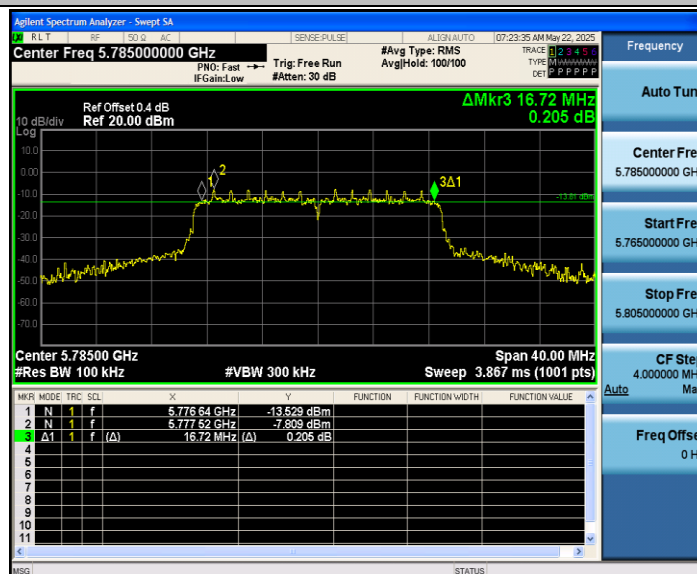
11A_Ant1_5825



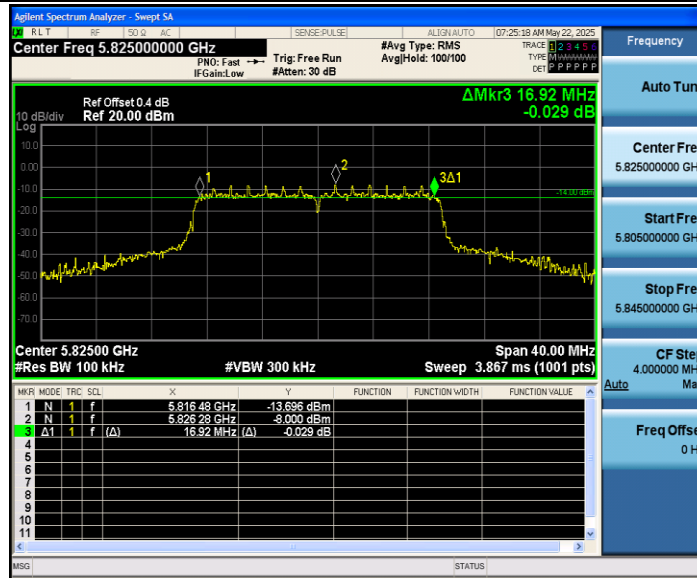
11N20SISO_Ant1_5745



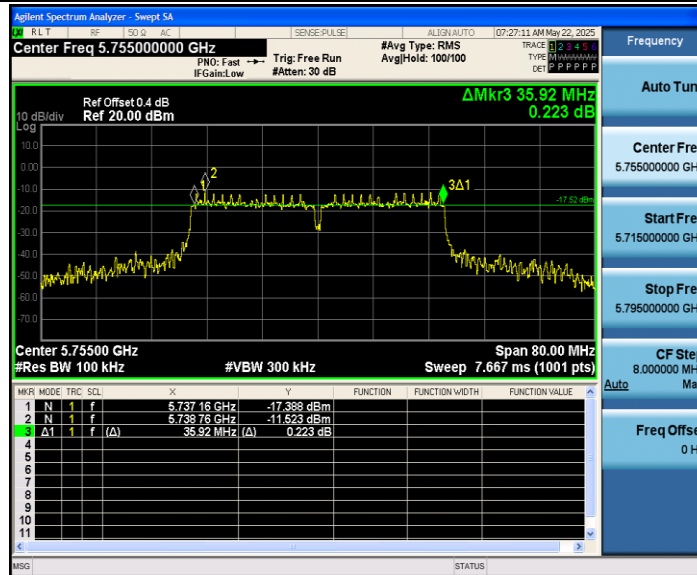
11N20SISO_Ant1_5785



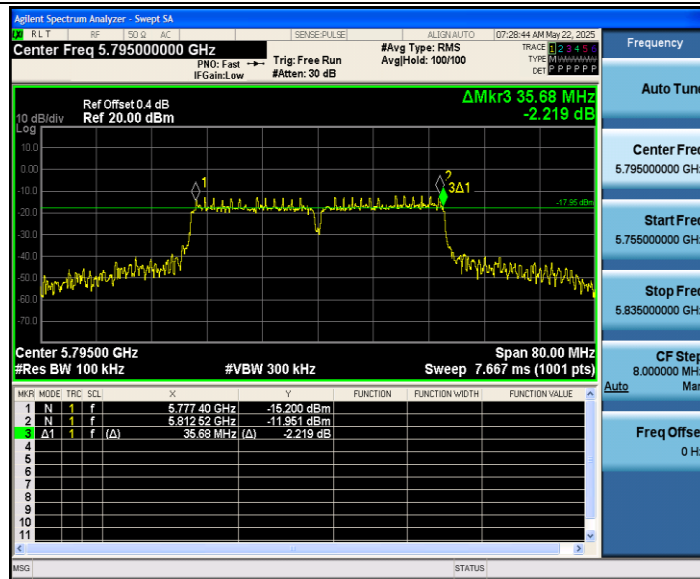
11N20SISO_Ant1_5825



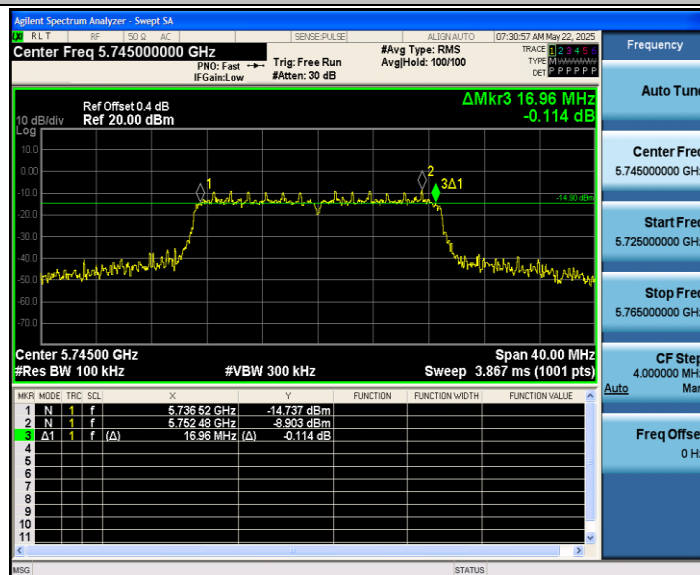
11N40SISO_Ant1_5755



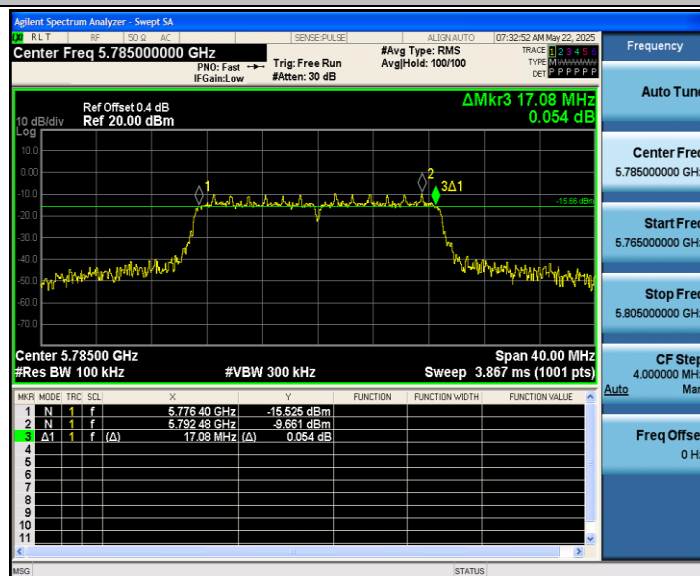
11N40SISO_Ant1_5795



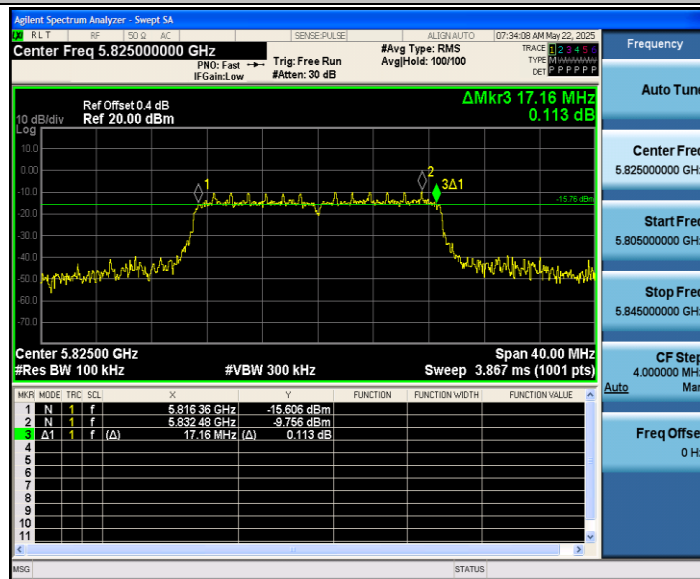
11AC20SISO_Ant1_5745



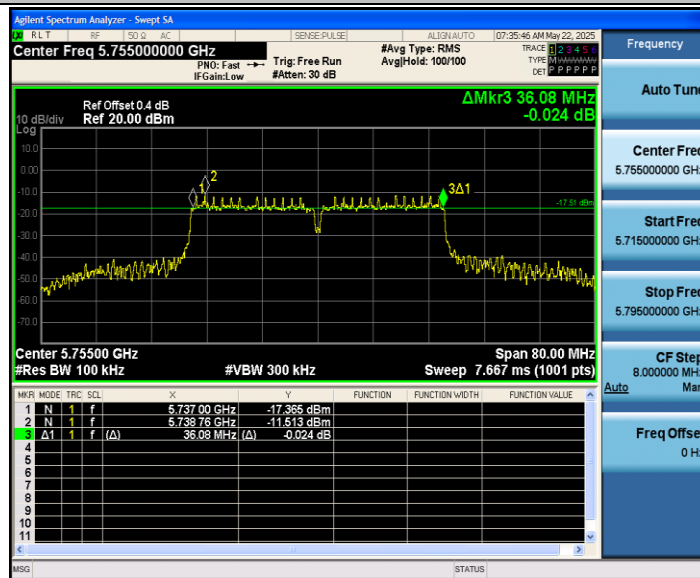
11AC20SISO_Ant1_5785



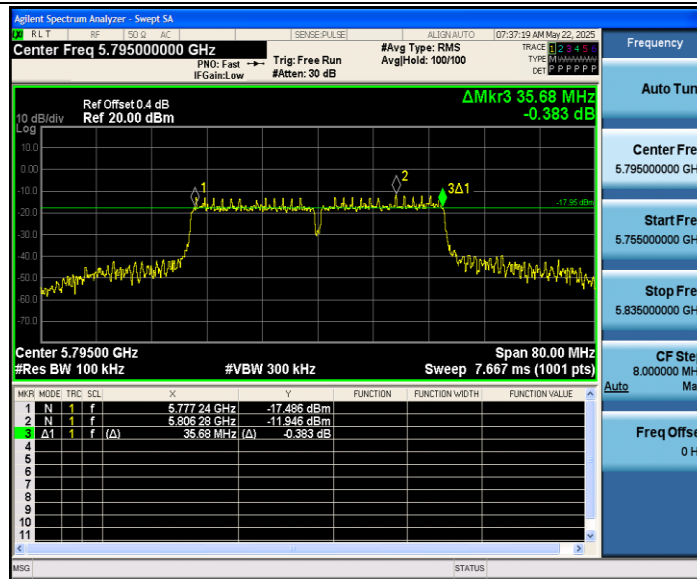
11AC20SISO_Ant1_5825



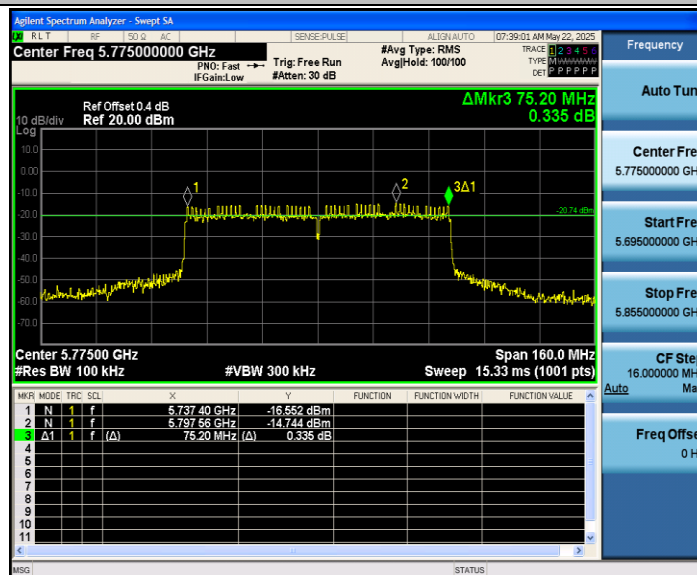
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80ISO_Ant1_5775

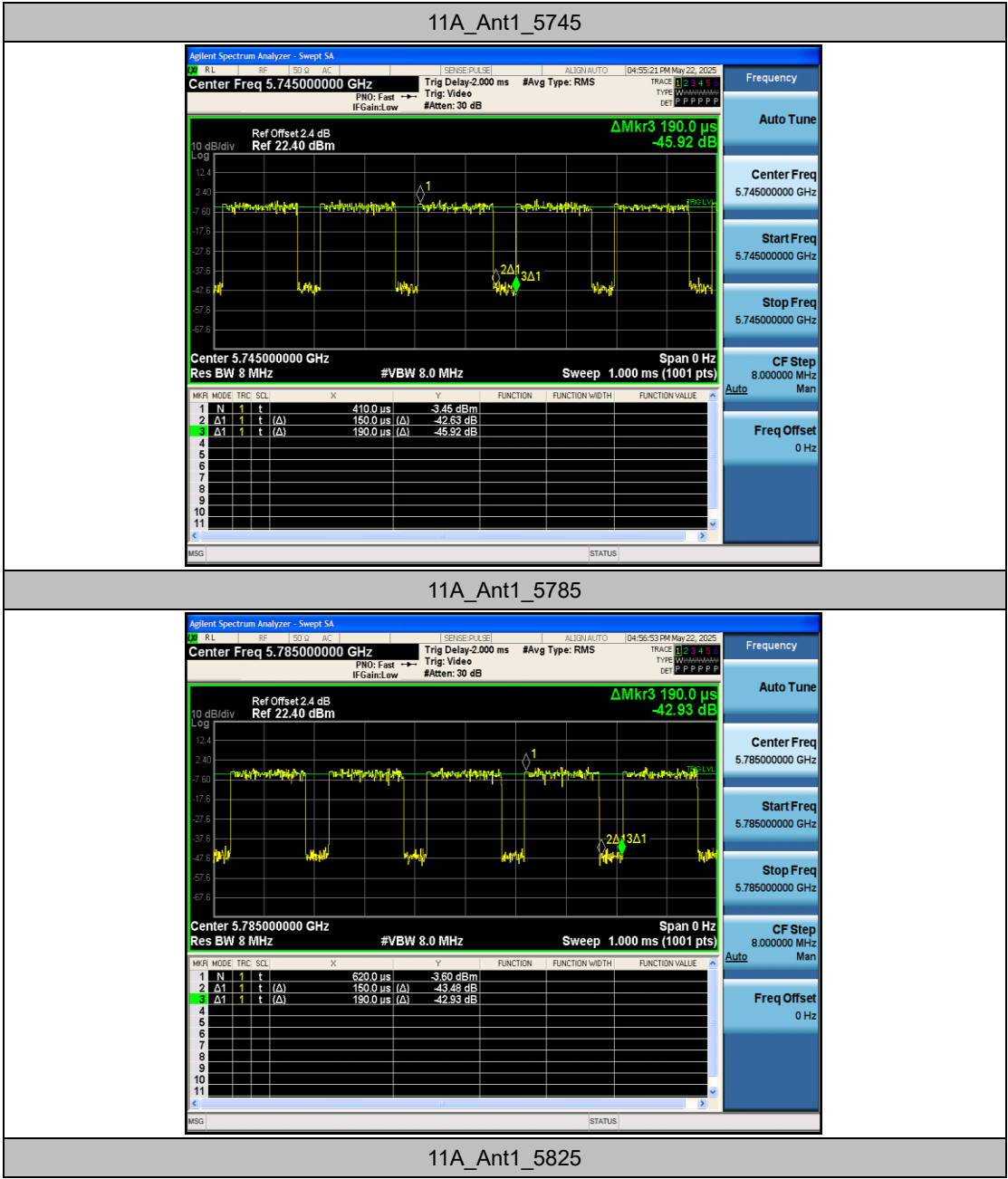


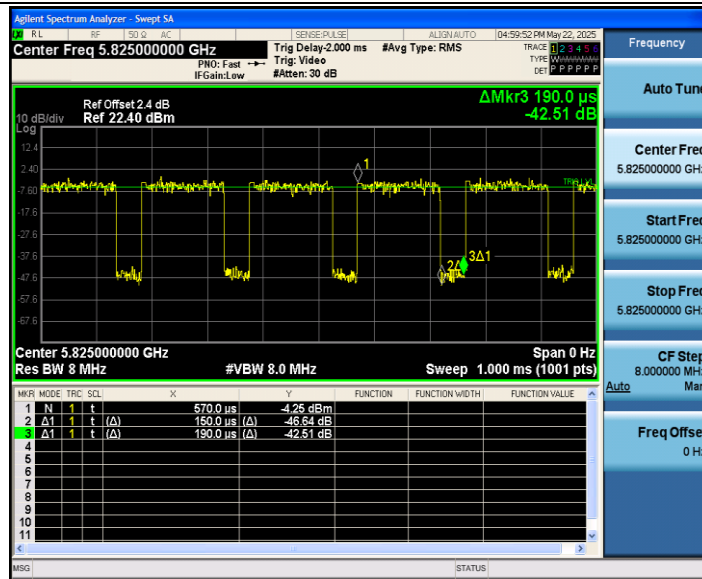
Appendix B: Duty Cycle

Test Result

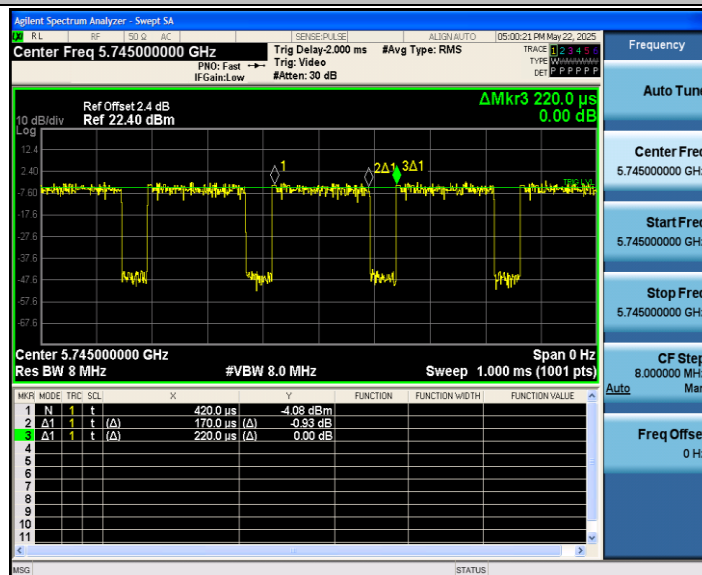
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5745	0.15	0.19	78.95	1.03	---	---
		5785	0.15	0.19	78.95	1.03	---	---
		5825	0.15	0.19	78.95	1.03	---	---
11N20SISO	Ant1	5745	0.17	0.22	77.27	1.12	---	---
		5785	0.17	0.22	77.27	1.12	---	---
		5825	0.18	0.23	78.26	1.06	---	---
11N40SISO	Ant1	5755	0.18	0.23	78.26	1.06	---	---
		5795	0.18	0.23	78.26	1.06	---	---
11AC20SISO	Ant1	5745	0.16	0.21	76.19	1.18	---	---
		5785	0.16	0.21	76.19	1.18	---	---
		5825	0.16	0.21	76.19	1.18	---	---
11AC40SISO	Ant1	5755	0.15	0.20	75.00	1.25	---	---
		5795	0.15	0.20	75.00	1.25	---	---
11AC80SISO	Ant1	5775	0.16	0.21	76.19	1.18	---	---

Test Graphs

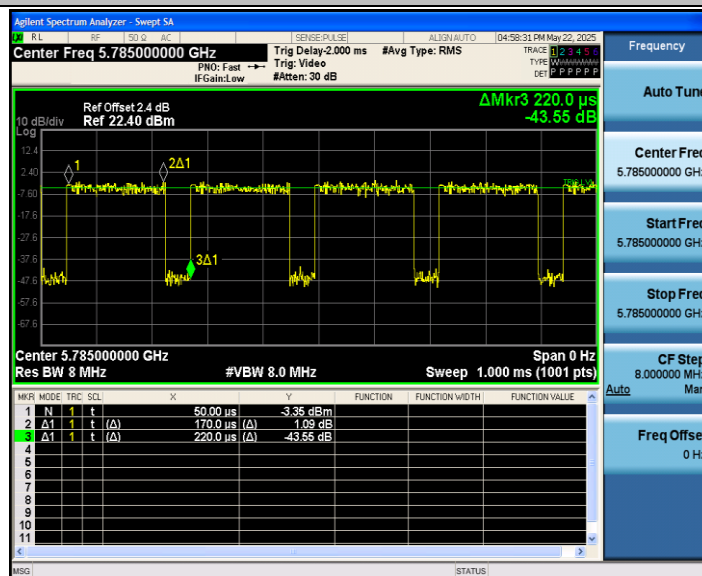




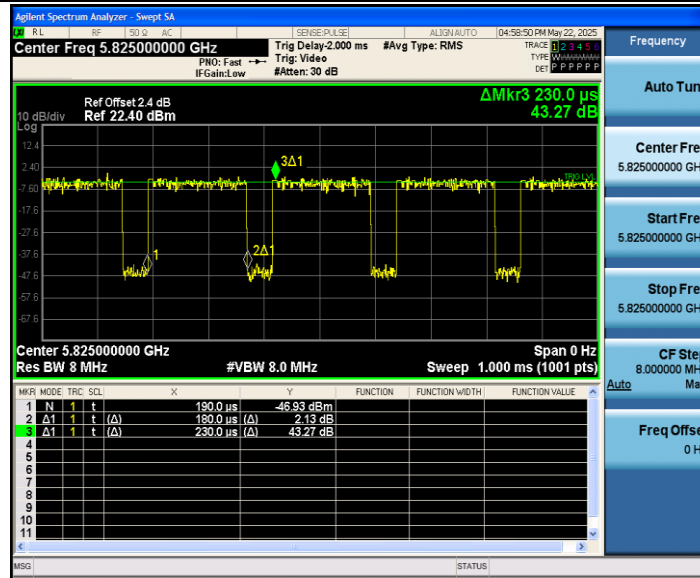
11N20SISO_Ant1_5745



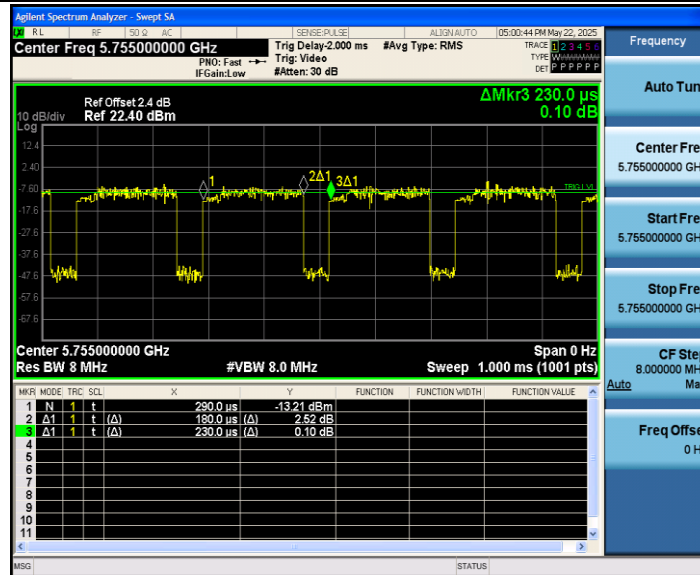
11N20SISO_Ant1_5785



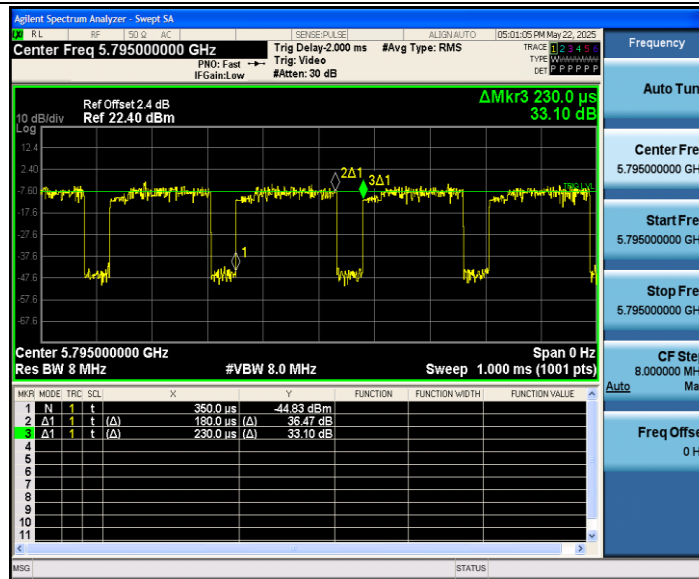
11N20SISO_Ant1_5825



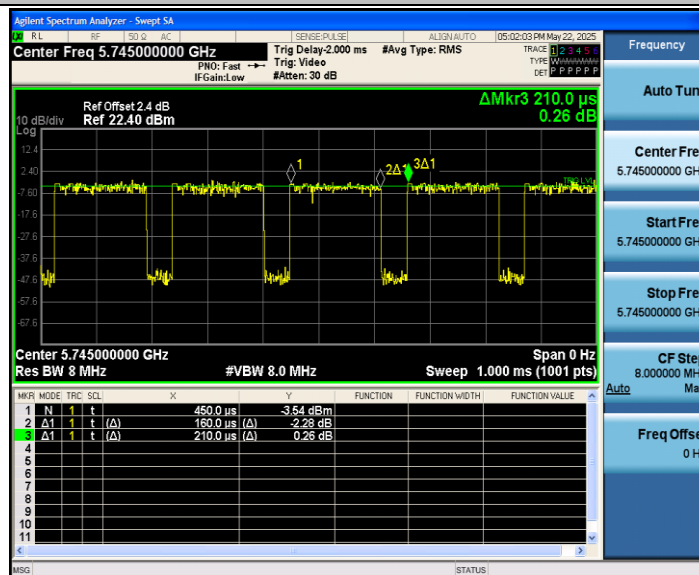
11N40SISO_Ant1_5755



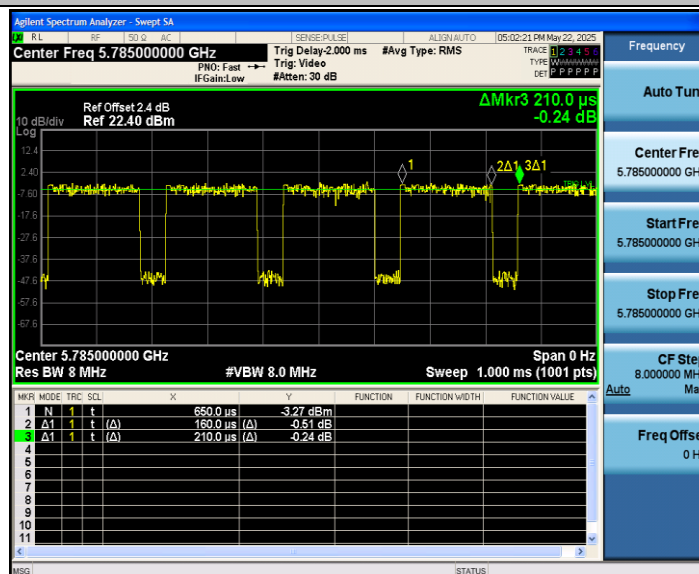
11N40SISO_Ant1_5795



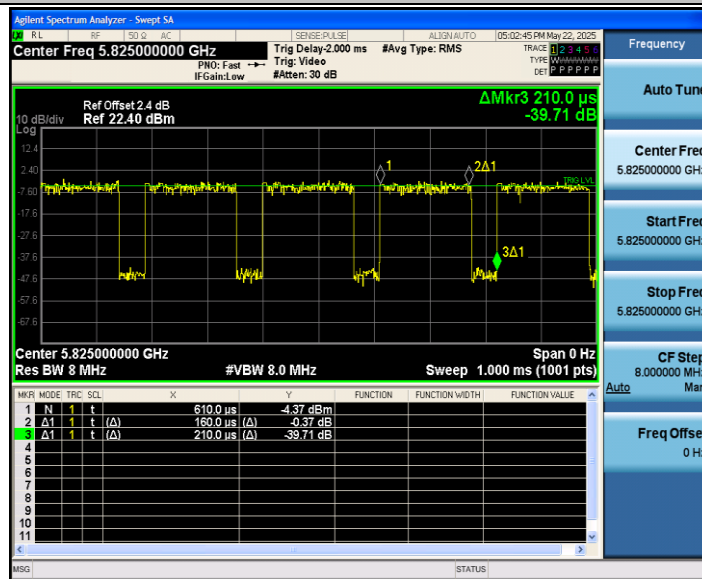
11AC20SISO_Ant1_5745



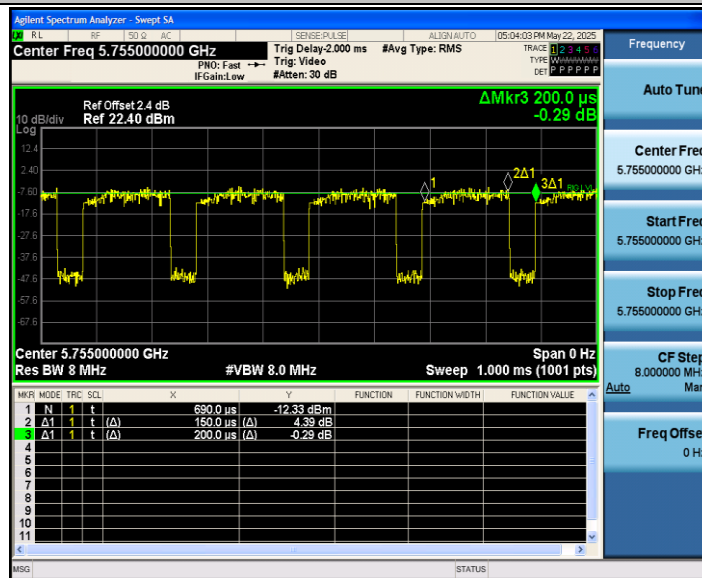
11AC20SISO_Ant1_5785



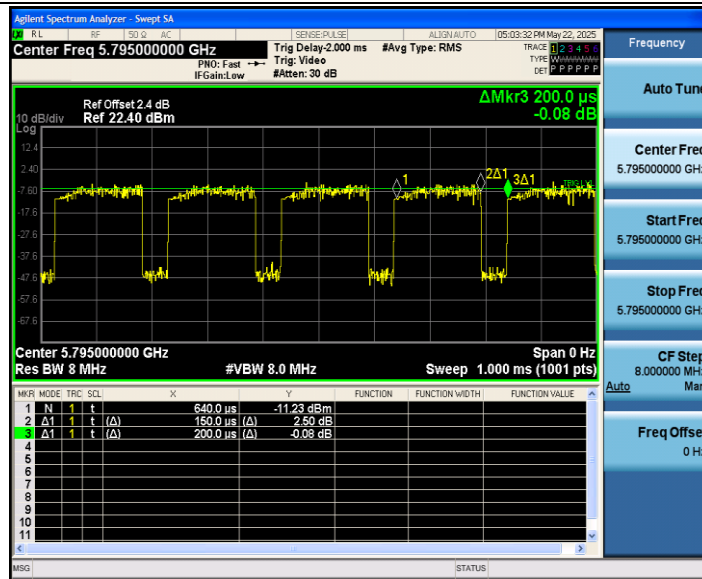
11AC20SISO_Ant1_5825



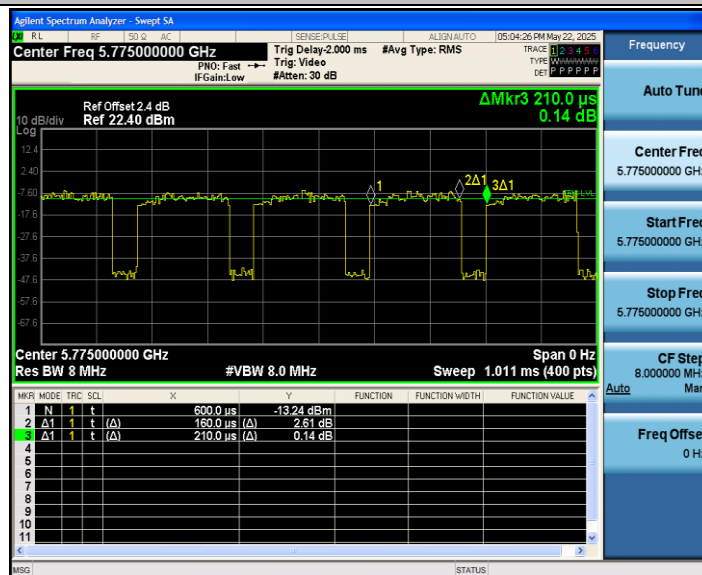
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix C: Maximum conducted output power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	4.29	1.03	5.32	≤30.00	PASS
		5785	3.59	1.03	4.62	≤30.00	PASS
		5825	3.47	1.03	4.50	≤30.00	PASS
11N20SISO	Ant1	5745	4.03	1.12	5.15	≤30.00	PASS
		5785	3.25	1.12	4.37	≤30.00	PASS
		5825	3.53	1.06	4.59	≤30.00	PASS
11N40SISO	Ant1	5755	3.01	1.06	4.07	≤30.00	PASS
		5795	2.13	1.06	3.19	≤30.00	PASS
11AC20SISO	Ant1	5745	2.07	1.18	3.25	≤30.00	PASS
		5785	1.62	1.18	2.80	≤30.00	PASS
		5825	1.27	1.18	2.45	≤30.00	PASS
11AC40SISO	Ant1	5755	2.46	1.25	3.71	≤30.00	PASS
		5795	2.33	1.25	3.58	≤30.00	PASS
11AC80SISO	Ant1	5775	2.8	1.18	3.98	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/300KHz]	RBW Factor (dB)	Duty factor (dB)	Result [dBm/500KHz]	Limit [dBm/500KHz]
11A	Ant1	5745	-13.822	2.22	1.03	-10.572	≤30.00
		5785	-14.357	2.22	1.03	-11.107	≤30.00
		5825	-15.047	2.22	1.03	-11.797	≤30.00
11N20SISO	Ant1	5745	-13.813	2.22	1.12	-10.473	≤30.00
		5785	-14.242	2.22	1.12	-10.902	≤30.00
		5825	-13.351	2.22	1.06	-10.071	≤30.00
11N40SISO	Ant1	5755	-18.623	2.22	1.06	-15.343	≤30.00
		5795	-19.392	2.22	1.06	-16.112	≤30.00
11AC20SISO	Ant1	5745	-15.387	2.22	1.18	-11.987	≤30.00
		5785	-16.352	2.22	1.18	-12.952	≤30.00
		5825	-15.923	2.22	1.18	-12.523	≤30.00
11AC40SISO	Ant1	5755	-19.333	2.22	1.25	-15.863	≤30.00
		5795	-19.304	2.22	1.25	-15.834	≤30.00
11AC80SISO	Ant1	5775	-22.965	2.22	1.18	-19.565	≤30.00

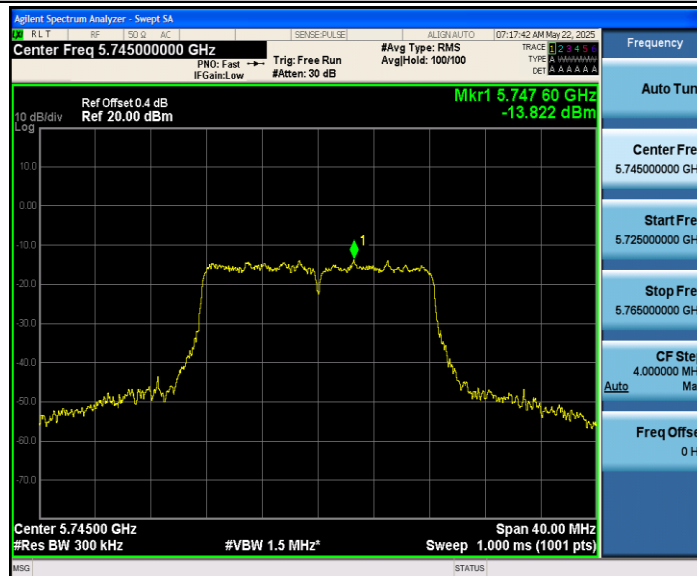
Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. RBW factor= $10 \log (500 \text{ KHz} / 300 \text{ KHz}) = 2.22 \text{ dB}$

3. P.S.D(dBm/500KHz)= P.S.D(dBm/300KHz)+ $10 \log (500 \text{ kHz}/300\text{KHz})$ +Duty cycle.

Test Graphs

11A_Ant1_5745



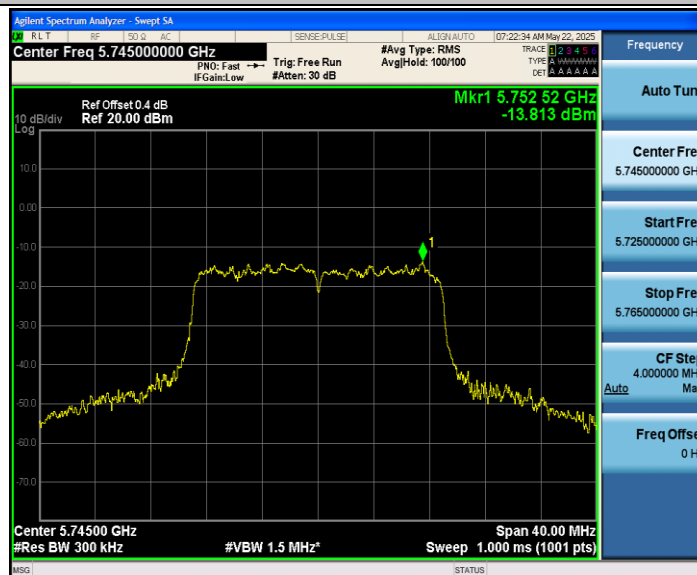
11A_Ant1_5785



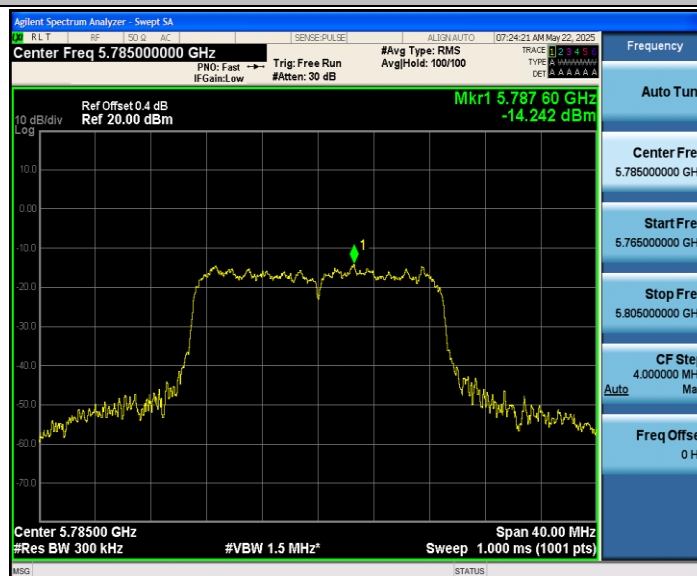
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



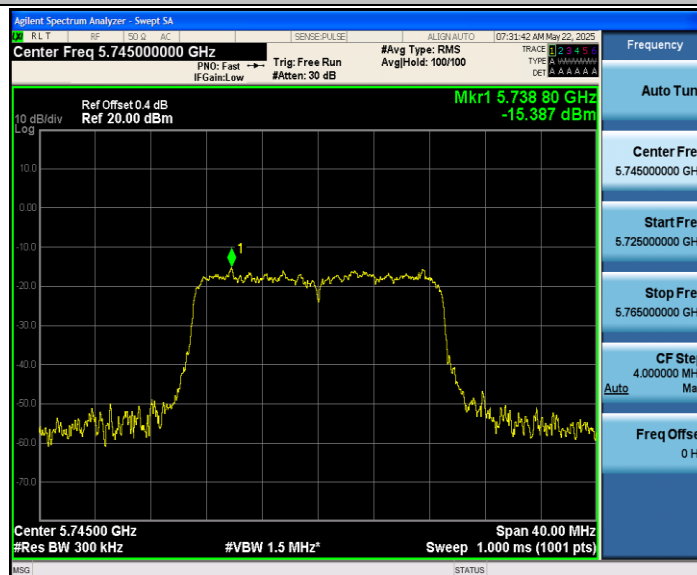
11N40SISO_Ant1_5755



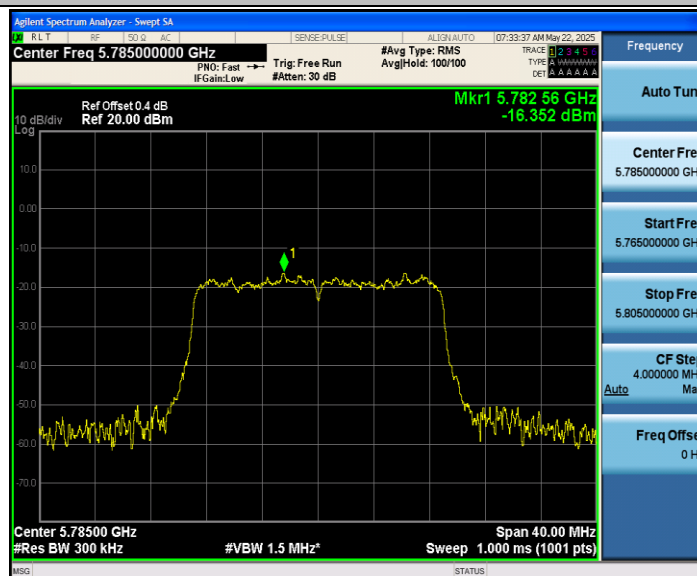
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



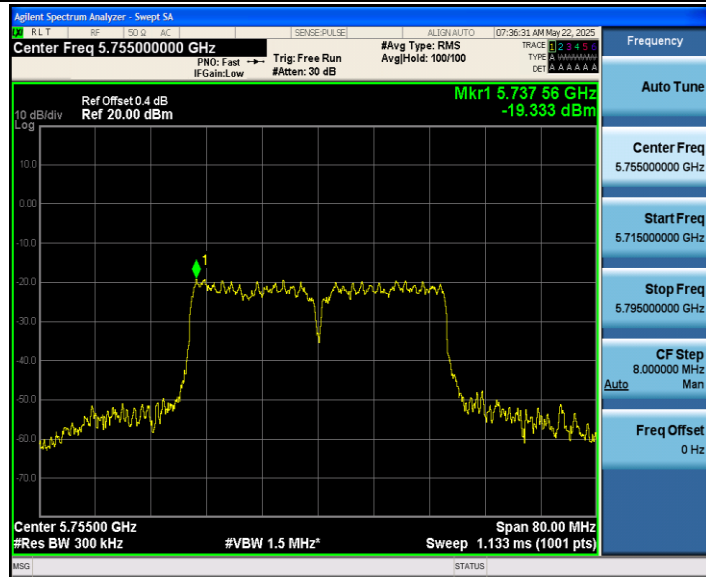
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

