

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BNGZ-D11

Company : Shenzhen Benton Technology Co. , Ltd.

EUT : Tablet PC

Model Number : M10

Report No. : CTA26072702804

Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.800	5168.240	5192.040	---	---
		5220	23.120	5208.320	5231.440	---	---
		5240	23.560	5228.080	5251.640	---	---
		5745	24.360	5732.800	5757.160	---	---
		5785	24.440	5772.840	5797.280	---	---
		5825	23.880	5813.000	5836.880	---	---
11N20SISO	Ant1	5180	24.080	5167.880	5191.960	---	---
		5220	24.040	5208.080	5232.120	---	---
		5240	23.520	5228.480	5252.000	---	---
		5745	24.440	5732.680	5757.120	---	---
		5785	25.000	5772.760	5797.760	---	---
		5825	24.520	5812.560	5837.080	---	---
11N40SISO	Ant1	5190	43.520	5168.560	5212.080	---	---
		5230	43.760	5208.400	5252.160	---	---
		5755	45.200	5732.920	5778.120	---	---
		5795	44.640	5773.160	5817.800	---	---
11AC20SISO	Ant1	5180	22.880	5168.600	5191.480	---	---
		5220	22.720	5208.480	5231.200	---	---
		5240	22.600	5228.800	5251.400	---	---
		5745	22.640	5733.680	5756.320	---	---
		5785	23.760	5773.240	5797.000	---	---
		5825	23.880	5813.120	5837.000	---	---
11AC40SISO	Ant1	5190	42.800	5168.800	5211.600	---	---
		5230	43.360	5208.320	5251.680	---	---
		5755	44.320	5733.480	5777.800	---	---
		5795	44.800	5773.320	5818.120	---	---
11AC80SISO	Ant1	5210	87.200	5166.160	5253.360	---	---
		5775	86.240	5732.120	5818.360	---	---

11A_Ant1_5180

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.180000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

ΔMkr3 23.80 MHz
0.280 dB

Span 40.00 MHz
Sweep 1.000 ms (1001 pts)

NR Mode TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

NR Mode	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.180 24 GHz	-32.858 dBm		
2	N	1	f	5.183 73 GHz	-3.555 dBm		
3	Δ1	1	f (Δ)	23.80 MHz (Δ)	0.280 dB		

11A_Ant1_5220

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.220000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

ΔMkr3 23.12 MHz
-0.990 dB

Span 40.00 MHz
Sweep 1.000 ms (1001 pts)

NR Mode TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

NR Mode	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.208 32 GHz	-29.796 dBm		
2	N	1	f	5.217 20 GHz	-3.072 dBm		
3	Δ1	1	f (Δ)	23.12 MHz (Δ)	-0.990 dB		

11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



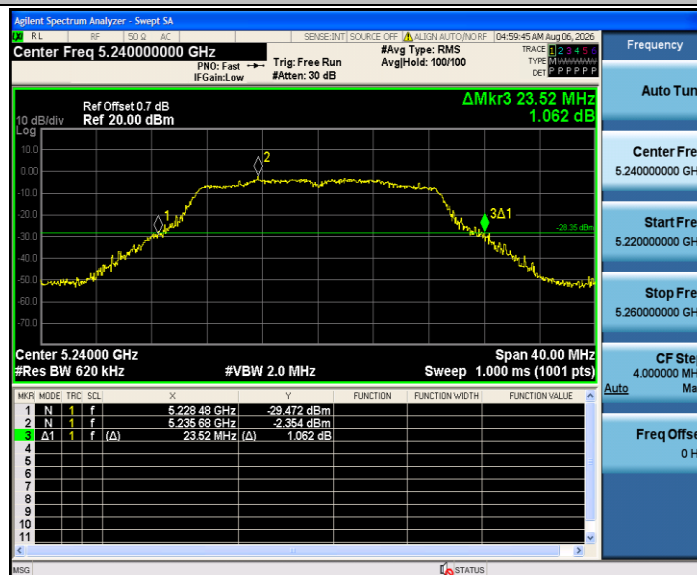
11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



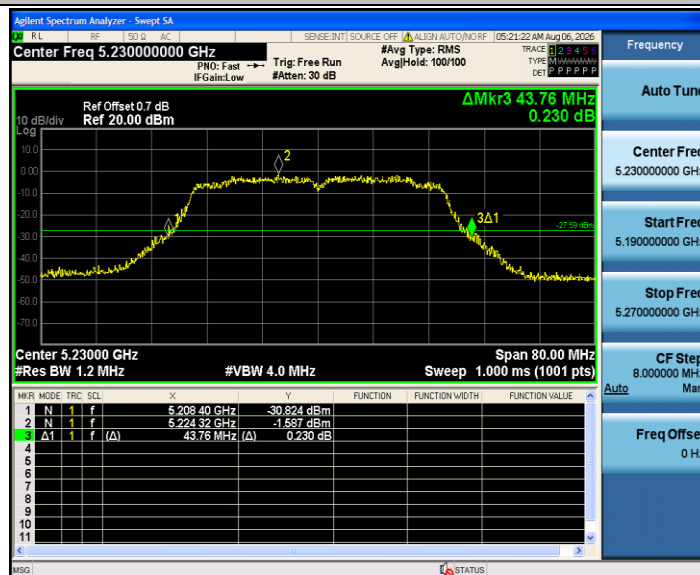
11N20SISO_Ant1_5825



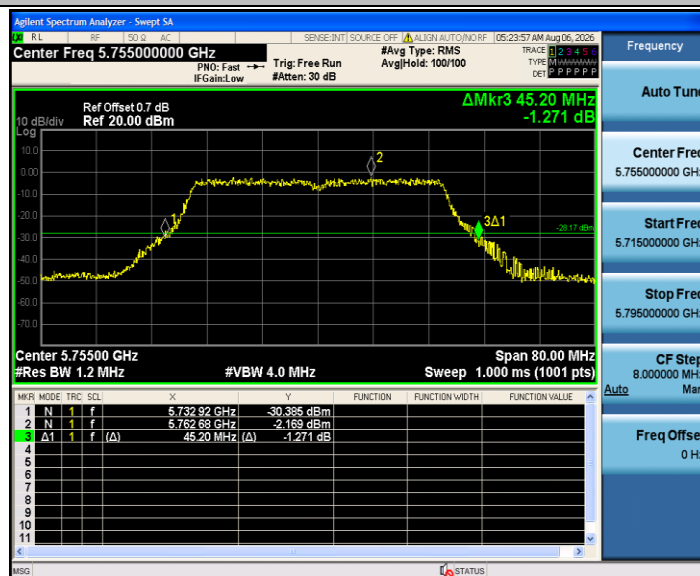
11N40SISO_Ant1_5190



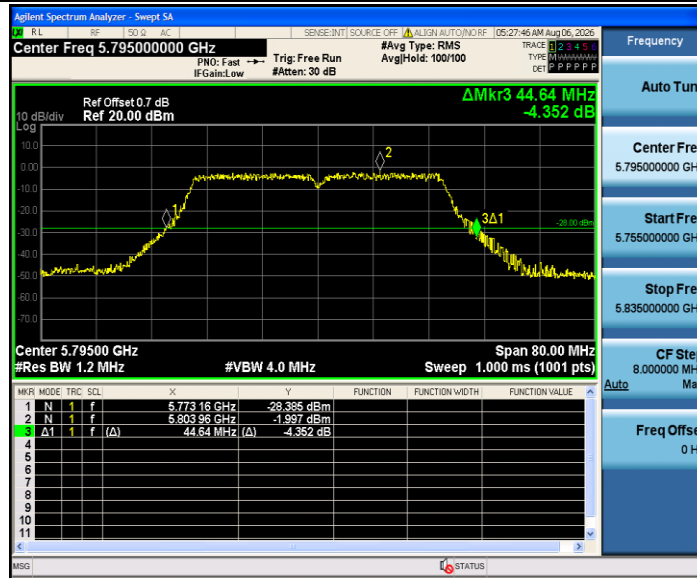
11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



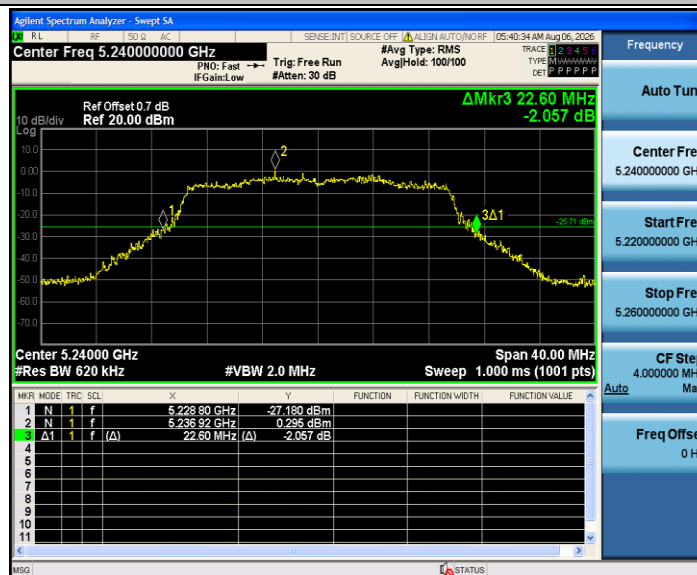
11AC20SISO_Ant1_5180



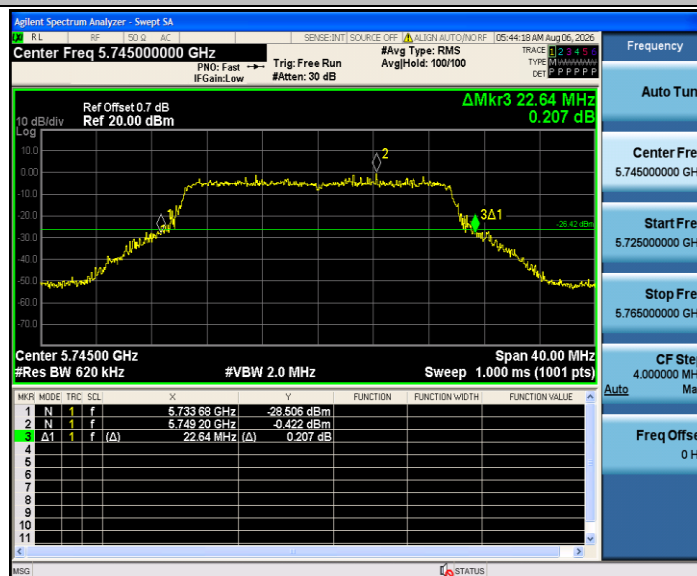
11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



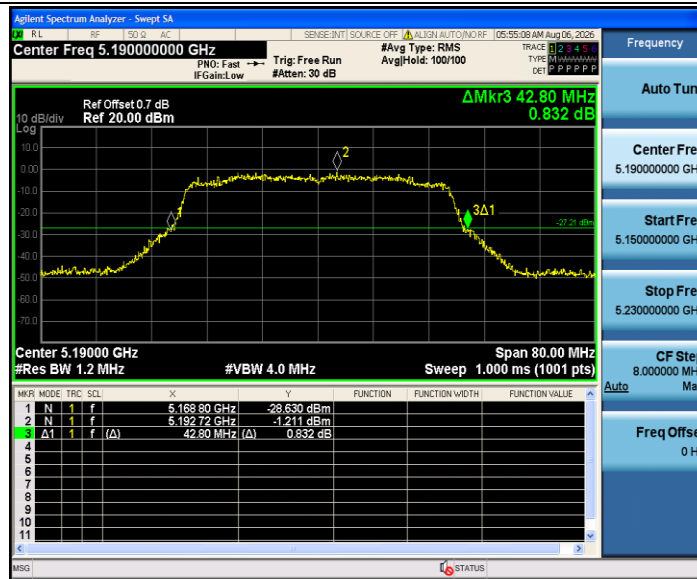
11AC20SISO_Ant1_5785



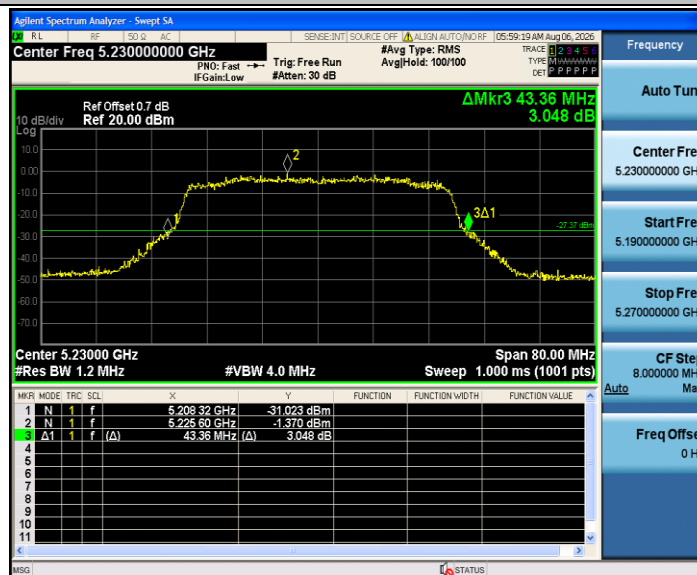
11AC20SISO_Ant1_5825



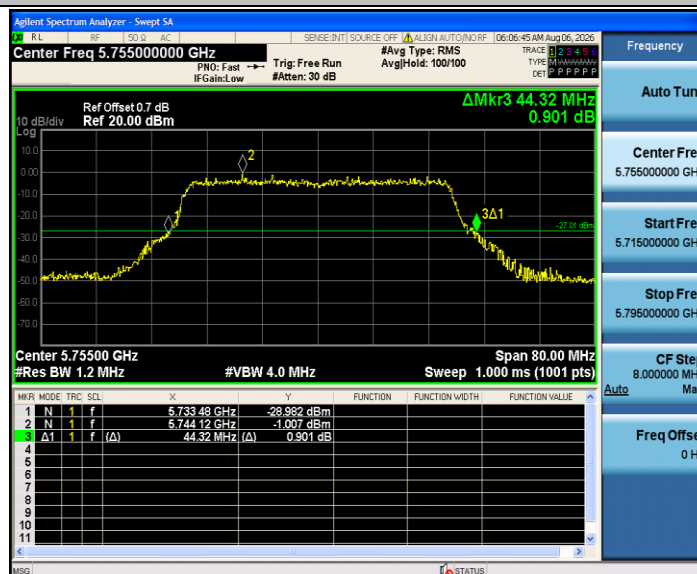
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



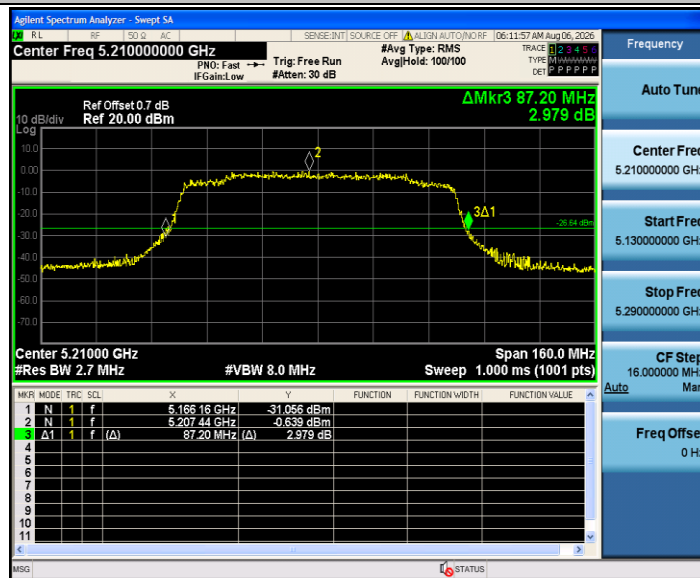
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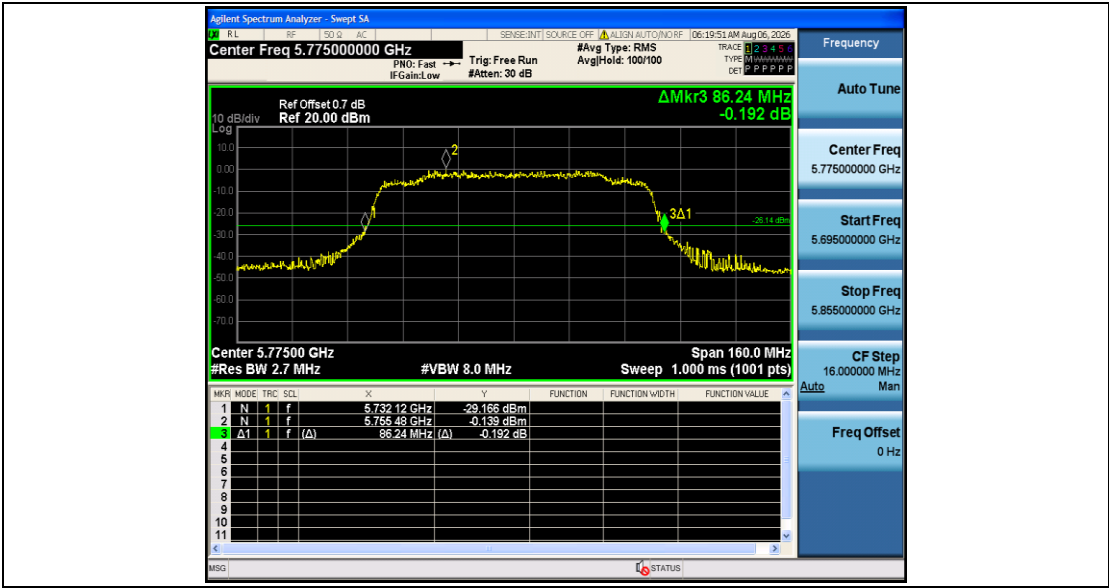
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



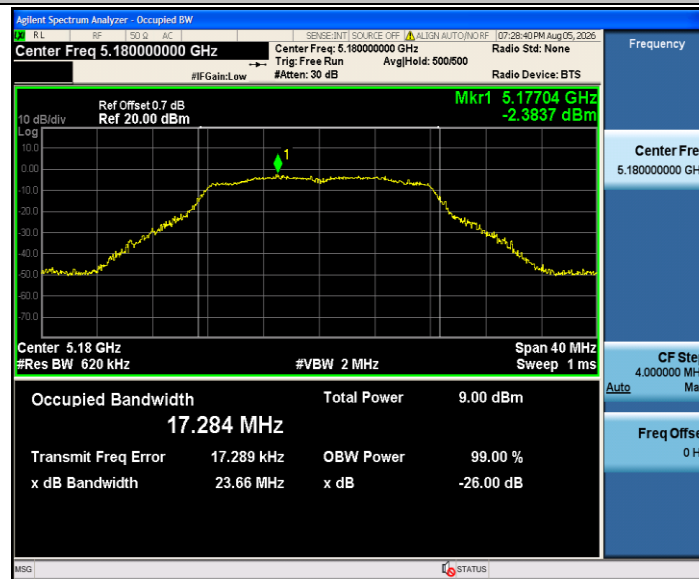
Appendix A2: Occupied channel bandwidth

Test Result

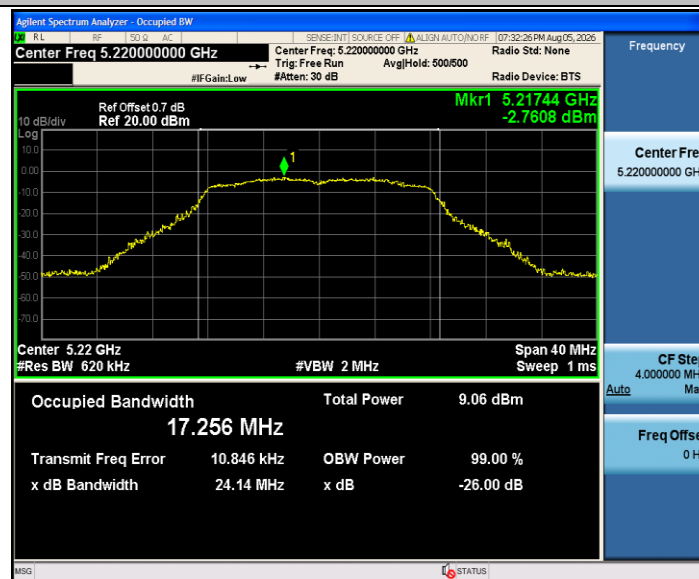
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.284	5171.3753	5188.6593	---	---
		5220	17.256	5211.3829	5228.6389	---	---
		5240	17.337	5231.3172	5248.6542	---	---
		5745	17.693	5736.1648	5753.8578	---	---
		5785	17.633	5776.2318	5793.8648	---	---
		5825	17.680	5816.1739	5833.8539	---	---
11N20SISO	Ant1	5180	18.316	5170.8663	5189.1823	---	---
		5220	18.273	5210.8544	5229.1274	---	---
		5240	18.321	5230.8076	5249.1286	---	---
		5745	18.648	5735.6599	5754.3079	---	---
		5785	18.692	5775.6572	5794.3492	---	---
		5825	18.698	5815.6090	5834.3070	---	---
11N40SISO	Ant1	5190	36.305	5171.8734	5208.1784	---	---
		5230	36.299	5211.9088	5248.2078	---	---
		5755	36.962	5736.6166	5773.5786	---	---
		5795	36.952	5776.6030	5813.5550	---	---
11AC20SISO	Ant1	5180	19.125	5170.4813	5189.6063	---	---
		5220	19.132	5210.4467	5229.5787	---	---
		5240	19.149	5230.4597	5249.6087	---	---
		5745	19.427	5735.2992	5754.7262	---	---
		5785	19.430	5775.3003	5794.7303	---	---
		5825	19.358	5815.3542	5834.7122	---	---
11AC40SISO	Ant1	5190	37.849	5171.0614	5208.9104	---	---
		5230	37.752	5211.1814	5248.9334	---	---
		5755	38.343	5735.9204	5774.2634	---	---
		5795	38.334	5775.9453	5814.2793	---	---
11AC80SISO	Ant1	5210	77.034	5171.6113	5248.6453	---	---
		5775	76.868	5736.7080	5813.5760	---	---

Test Graphs

11A_Ant1_5180



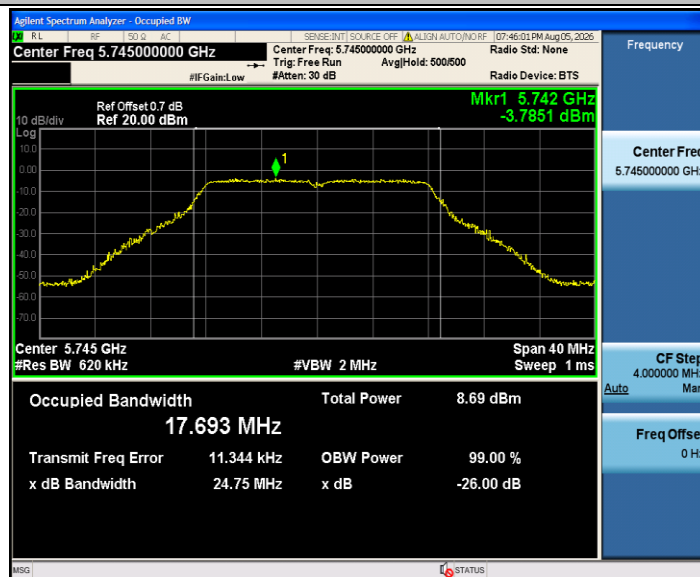
11A_Ant1_5220



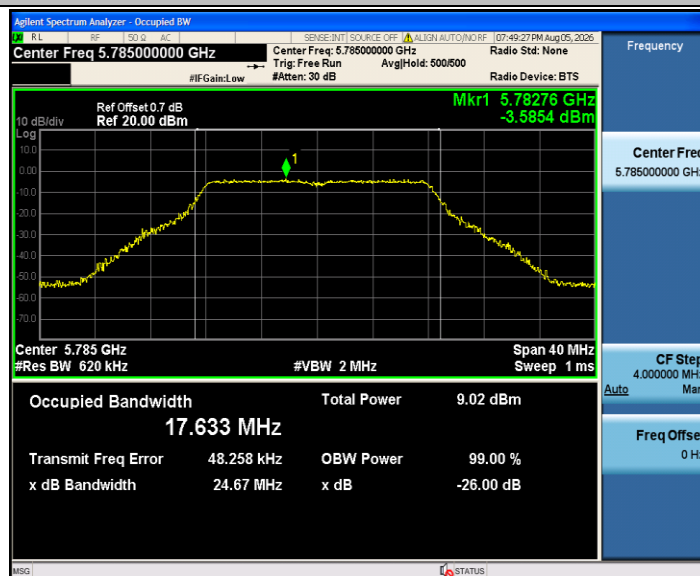
11A_Ant1_5240



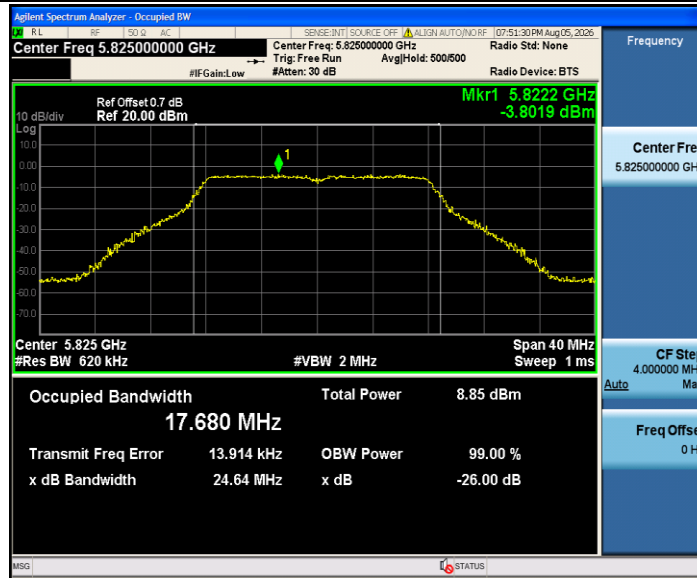
11A_Ant1_5745



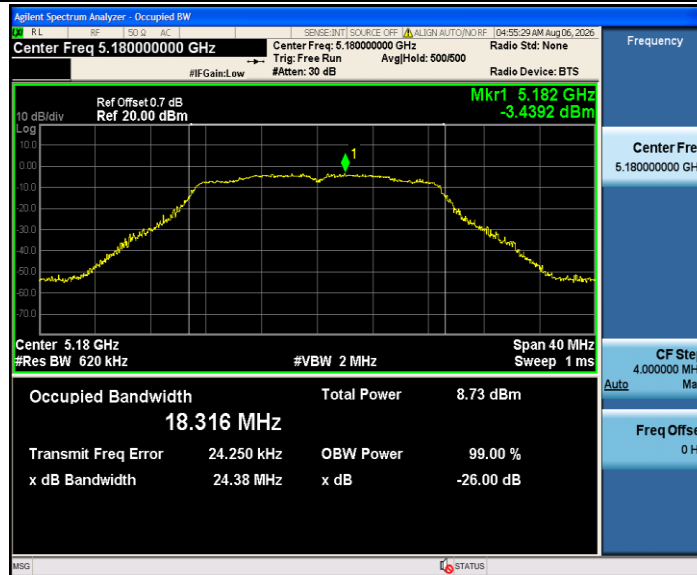
11A_Ant1_5785



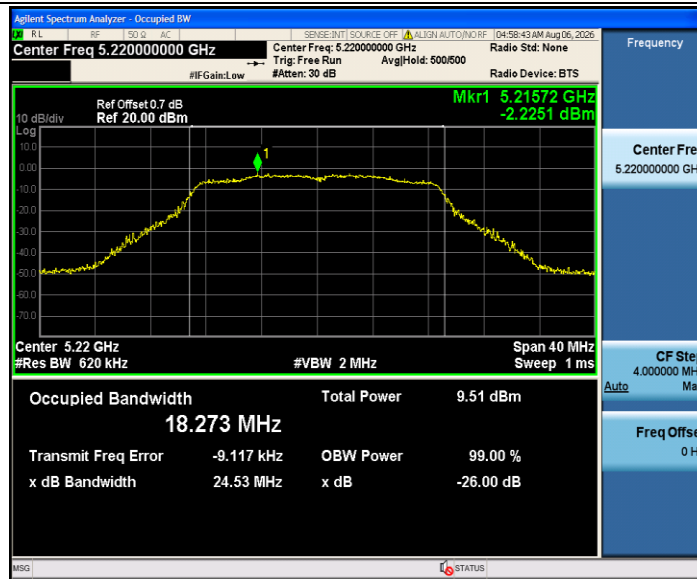
11A_Ant1_5825



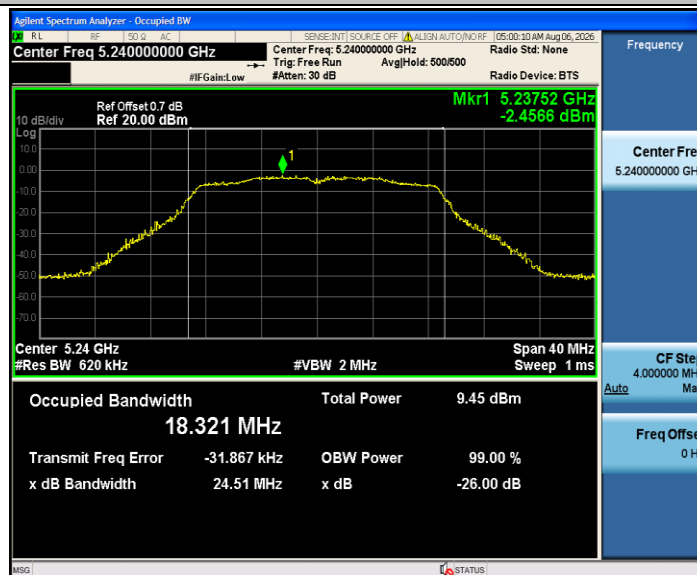
11N20SISO_Ant1_5180



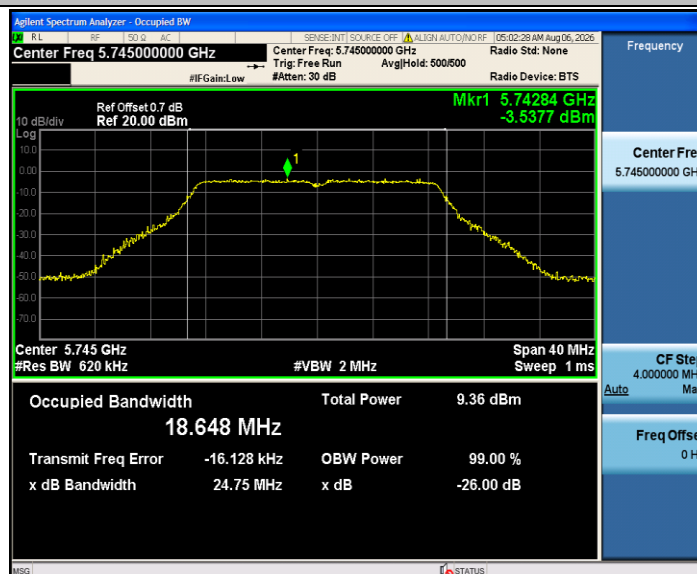
11N20SISO_Ant1_5220



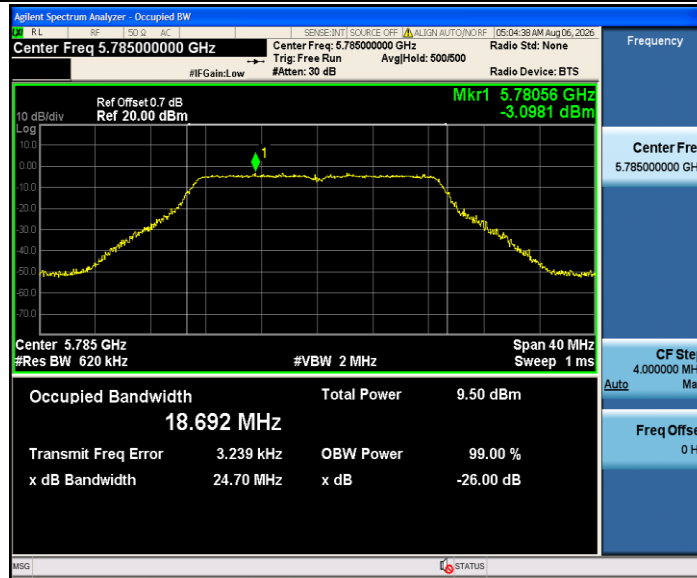
11N20SISO_Ant1_5240



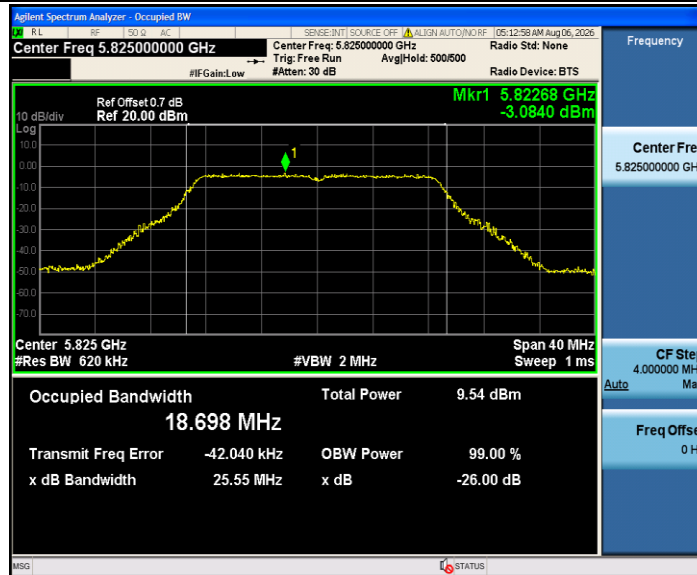
11N20SISO_Ant1_5745



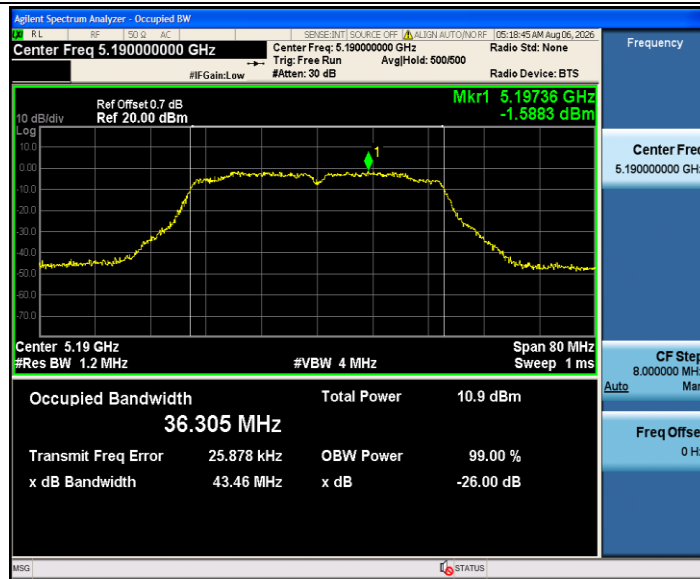
11N20SISO_Ant1_5785



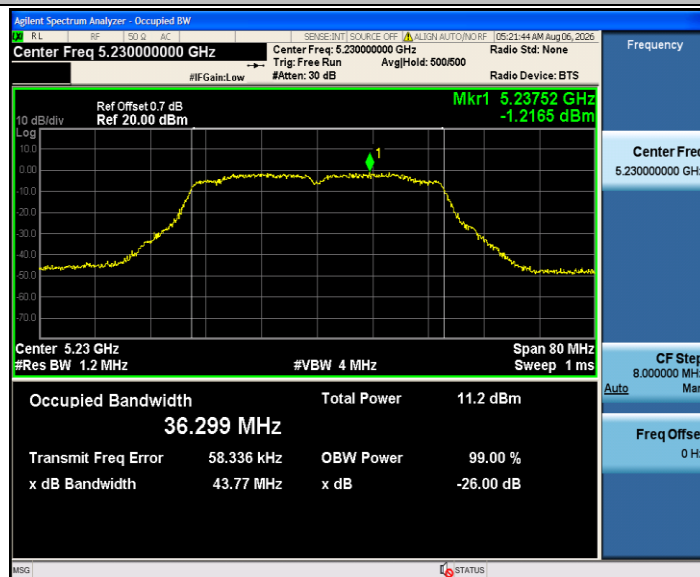
11N20SISO_Ant1_5825



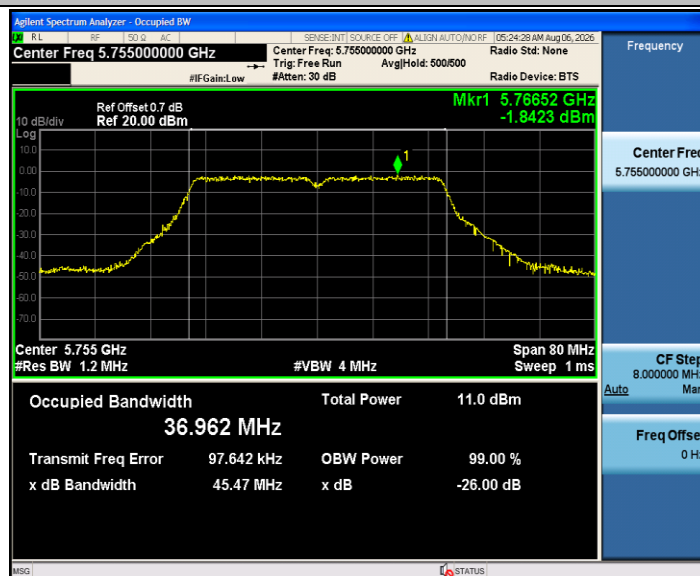
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



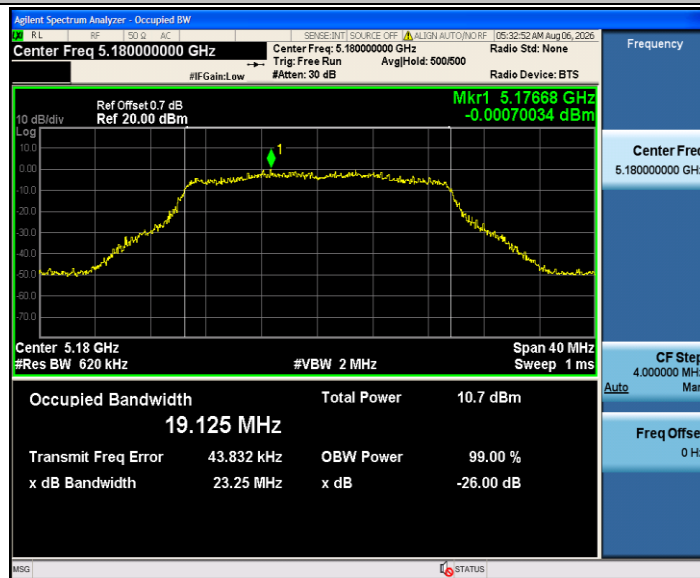
11N40SISO_Ant1_5755



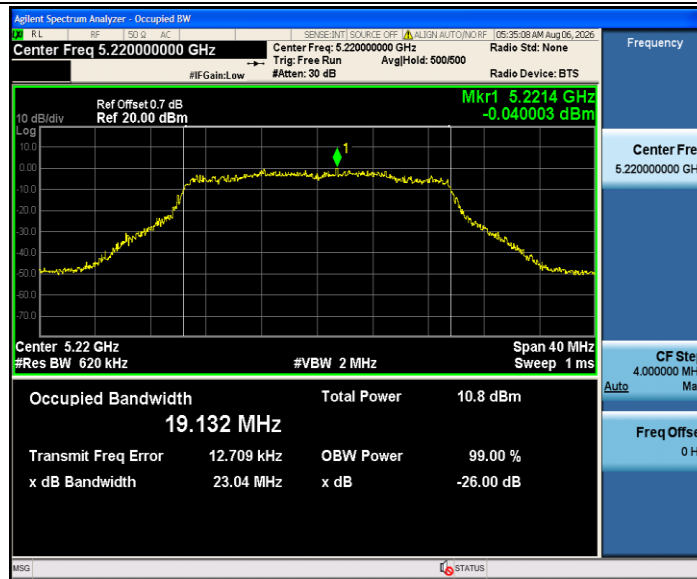
11N40SISO_Ant1_5795



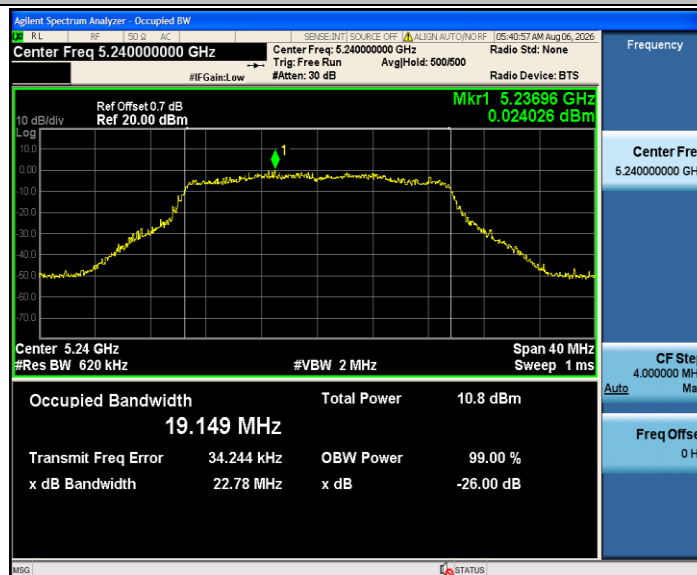
11AC20SISO_Ant1_5180



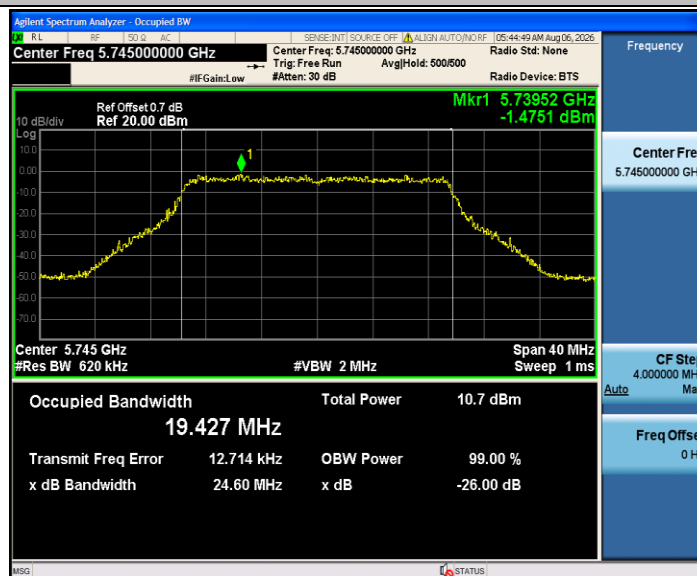
11AC20SISO_Ant1_5220



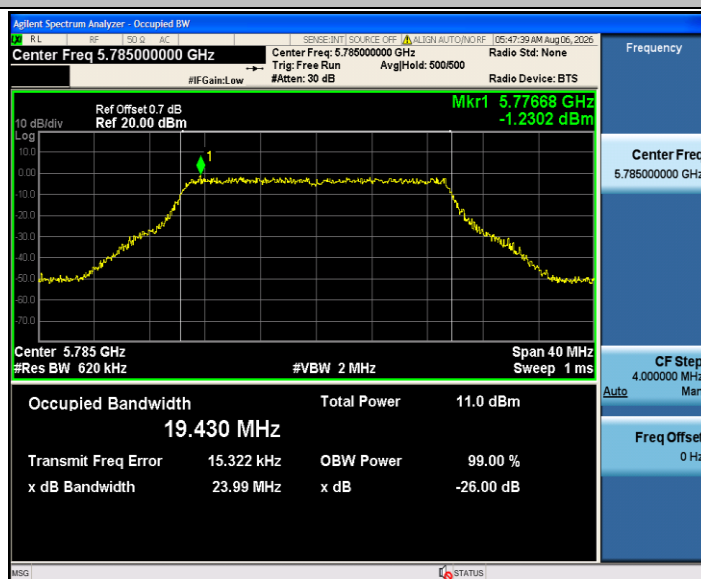
11AC20SISO_Ant1_5240



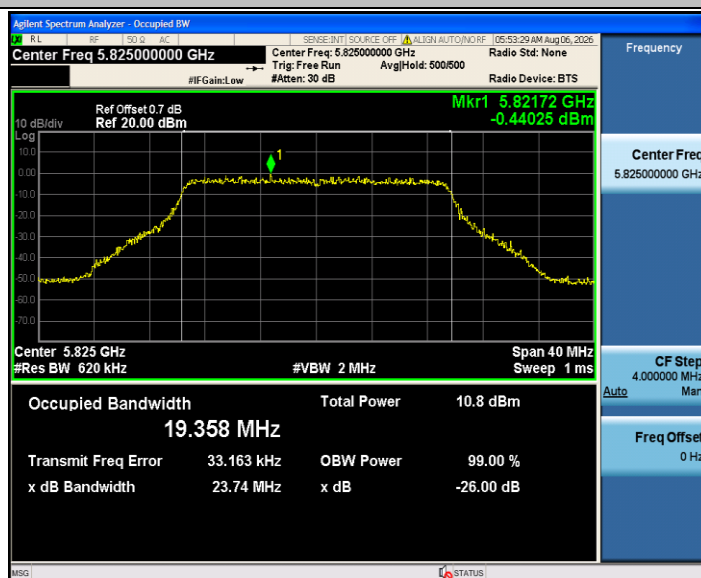
11AC20SISO_Ant1_5745



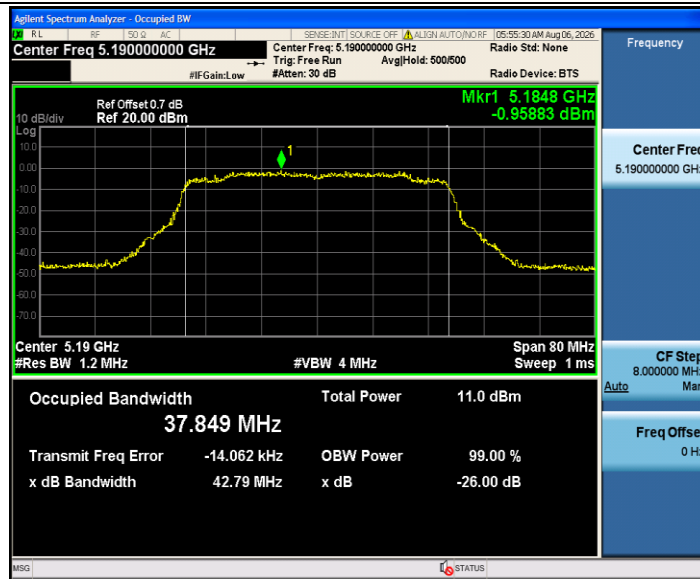
11AC20SISO_Ant1_5785



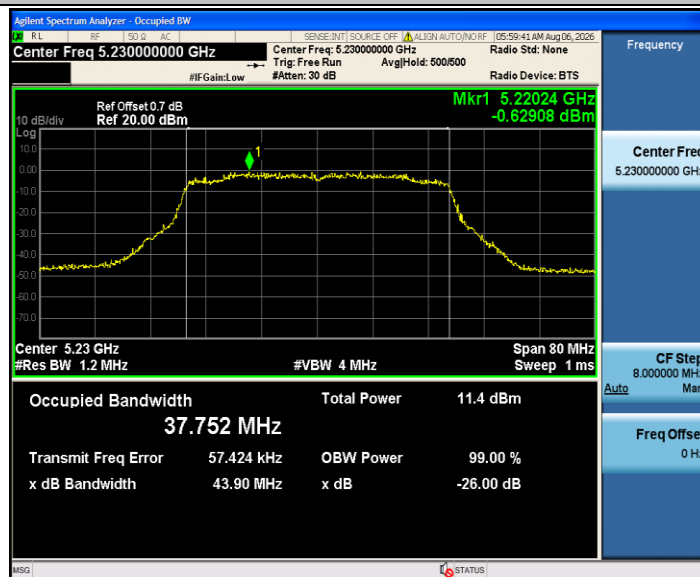
11AC20SISO_Ant1_5825



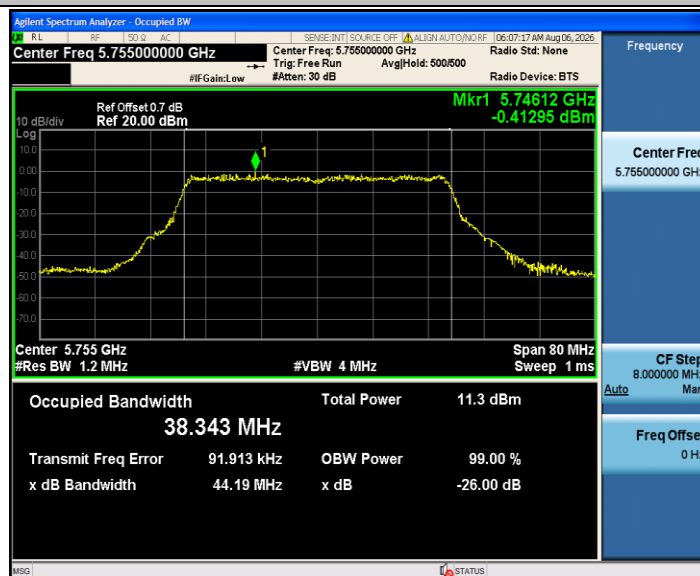
11AC40SISO_Ant1_5190



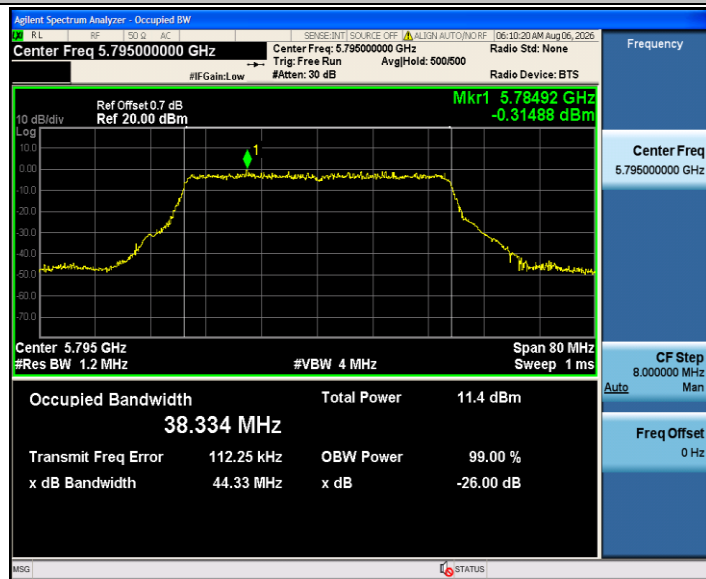
11AC40SISO_Ant1_5230



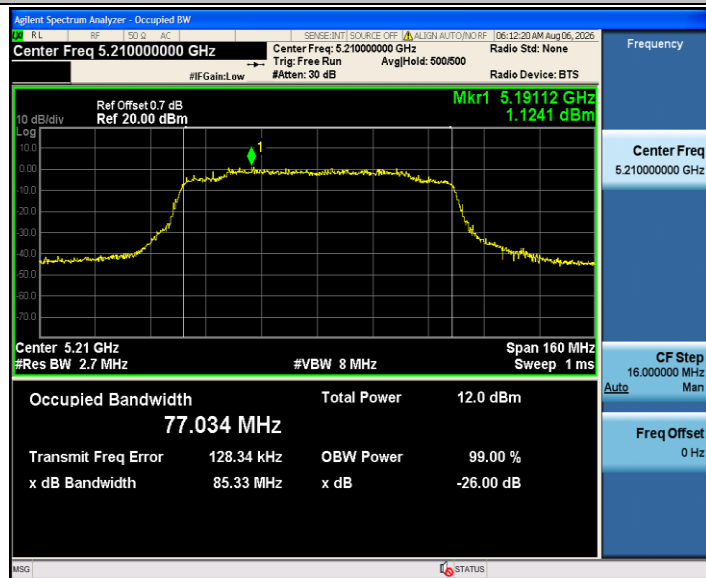
11AC40SISO_Ant1_5230



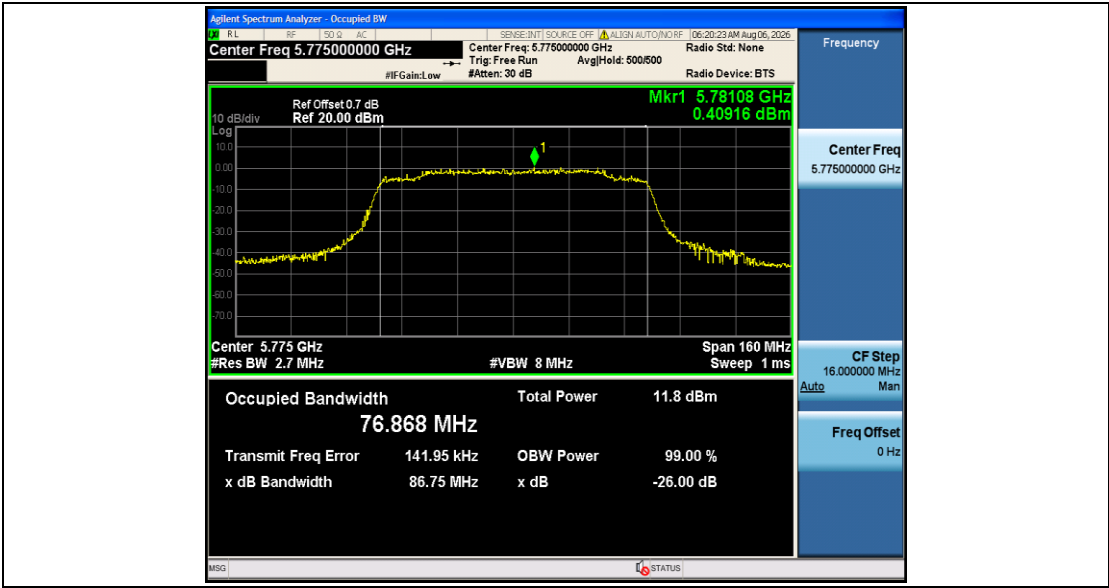
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

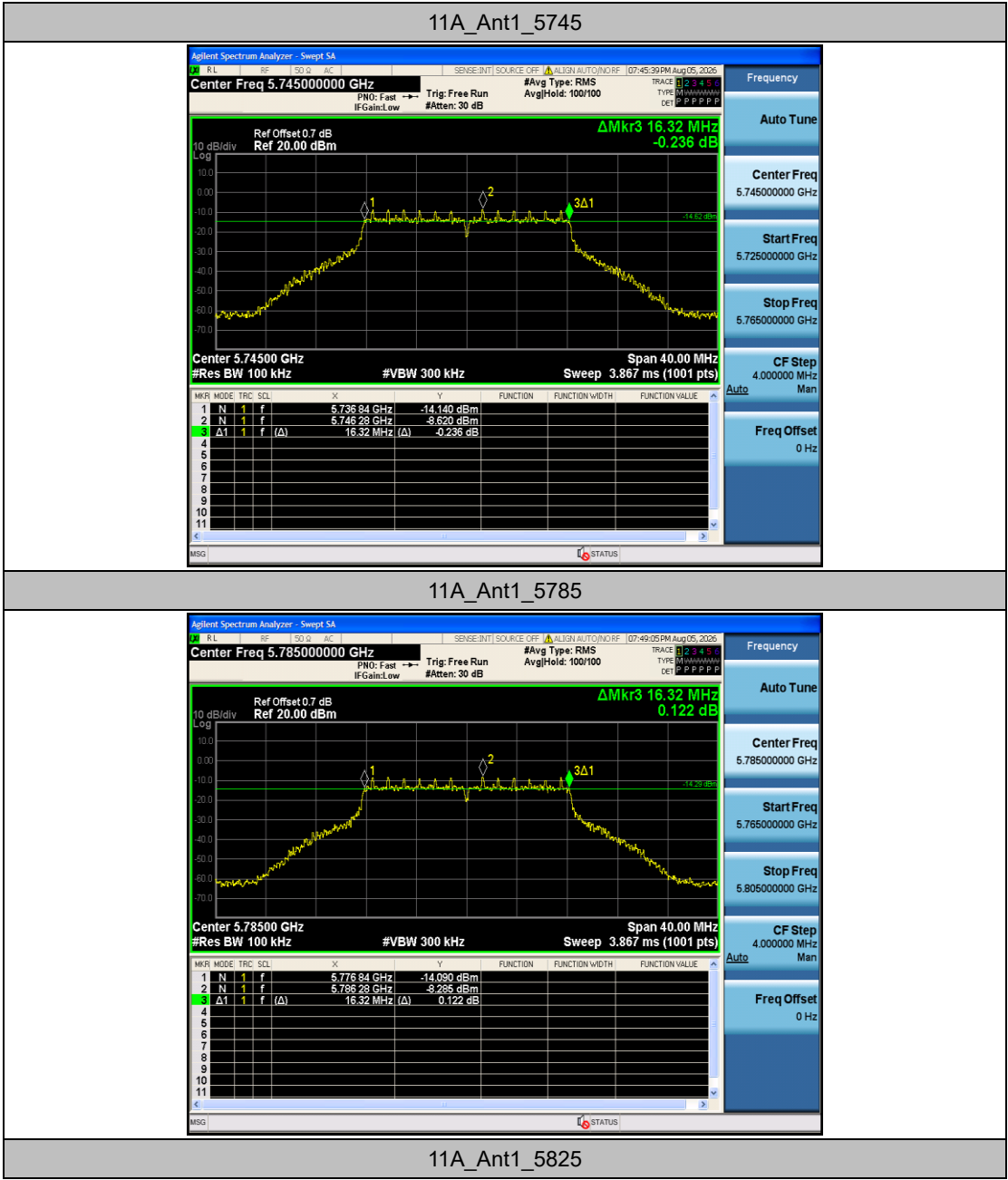


Appendix A3: Min emission bandwidth

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	17.520	5736.240	5753.760	0.5	PASS
		5785	17.480	5776.280	5793.760	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.000	5776.840	5812.840	0.5	PASS
11AC20SISO	Ant1	5745	18.440	5735.600	5754.040	0.5	PASS
		5785	18.360	5775.600	5793.960	0.5	PASS
		5825	18.760	5815.680	5834.440	0.5	PASS
11AC40SISO	Ant1	5755	37.680	5736.280	5773.960	0.5	PASS
		5795	37.840	5776.040	5813.880	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4





11N20SISO_Ant1_5745



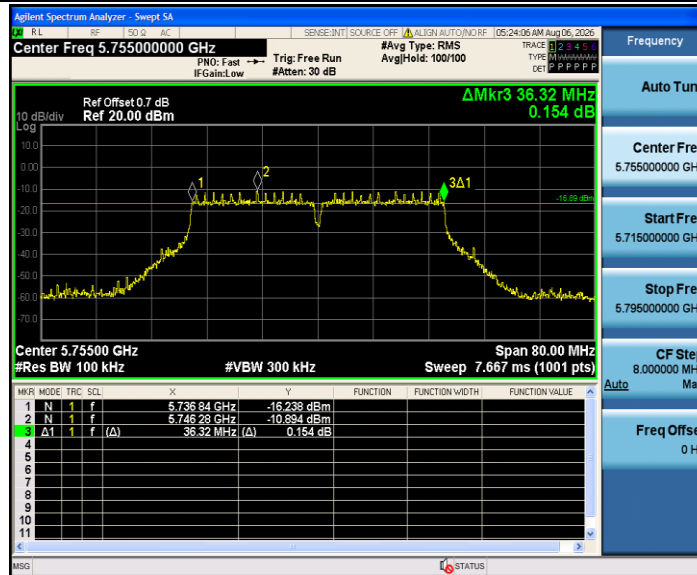
11N20SISO_Ant1_5785



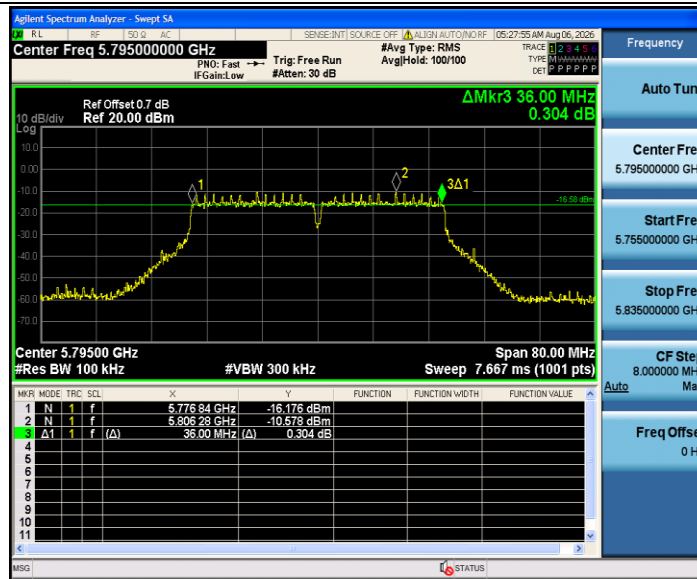
11N20SISO_Ant1_5825



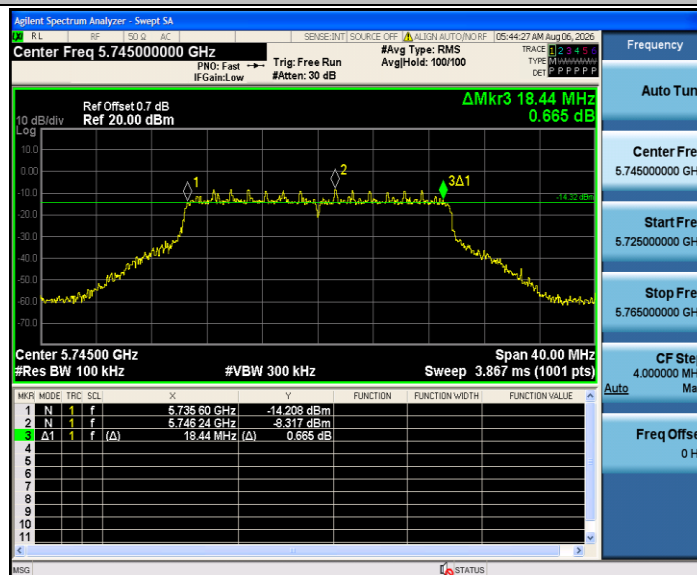
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785

