

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2ABN9-KJ801

Company : Kogi Electronics Co., Ltd.

EUT : Wireless Carplay Adapter

Model Number : KJ801

Report No. : CTA25121001902

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	22.200	5168.960	5191.160	---	---
		5220	22.040	5208.880	5230.920	---	---
		5240	21.560	5229.440	5251.000	---	---
		5745	23.120	5733.440	5756.560	---	---
		5785	22.800	5773.720	5796.520	---	---
		5825	23.560	5813.040	5836.600	---	---
11N20SISO	Ant1	5180	22.800	5168.360	5191.160	---	---
		5220	22.400	5209.120	5231.520	---	---
		5240	22.120	5229.040	5251.160	---	---
		5745	23.840	5733.320	5757.160	---	---
		5785	22.880	5773.440	5796.320	---	---
		5825	22.640	5813.600	5836.240	---	---
11N40SISO	Ant1	5190	41.920	5169.200	5211.120	---	---
		5230	42.320	5208.880	5251.200	---	---
		5755	44.800	5732.920	5777.720	---	---
		5795	44.640	5773.000	5817.640	---	---
11AC20SISO	Ant1	5180	22.880	5168.880	5191.760	---	---
		5220	22.320	5208.760	5231.080	---	---
		5240	21.960	5229.200	5251.160	---	---
		5745	23.800	5733.440	5757.240	---	---
		5785	23.120	5773.480	5796.600	---	---
		5825	23.920	5812.800	5836.720	---	---
11AC40SISO	Ant1	5190	41.600	5169.120	5210.720	---	---
		5230	40.880	5209.760	5250.640	---	---
		5755	44.320	5733.400	5777.720	---	---
		5795	43.840	5773.640	5817.480	---	---
11AX20SISO	Ant1	5180	22.280	5169.360	5191.640	---	---
		5220	23.160	5208.280	5231.440	---	---
		5240	22.240	5229.080	5251.320	---	---
		5745	21.600	5734.240	5755.840	---	---
		5785	23.000	5773.680	5796.680	---	---
		5825	22.400	5813.840	5836.240	---	---
11AX40SISO	Ant1	5190	42.000	5169.120	5211.120	---	---
		5230	41.600	5208.960	5250.560	---	---
		5755	43.680	5733.880	5777.560	---	---
		5795	43.360	5774.280	5817.640	---	---

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_5755



11AC40SISO_Ant1_5795



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5220



11AX20SISO_Ant1_5240



11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5190



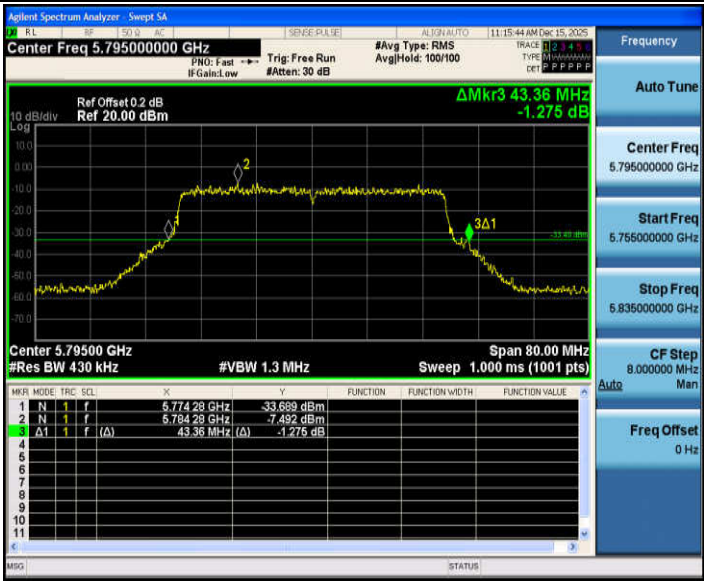
11AX40SISO_Ant1_5230



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.946	5171.5912	5188.5372	---	---
		5220	17.005	5211.5730	5228.5780	---	---
		5240	16.924	5231.6059	5248.5299	---	---
		5745	17.286	5736.4004	5753.6864	---	---
		5785	17.309	5776.3741	5793.6831	---	---
		5825	17.320	5816.3703	5833.6903	---	---
11N20SISO	Ant1	5180	18.055	5171.0071	5189.0621	---	---
		5220	18.014	5211.0158	5229.0298	---	---
		5240	18.081	5230.9788	5249.0598	---	---
		5745	18.360	5735.8602	5754.2202	---	---
		5785	18.338	5775.8671	5794.2051	---	---
		5825	18.367	5815.8267	5834.1937	---	---
11N40SISO	Ant1	5190	36.243	5171.9772	5208.2202	---	---
		5230	36.197	5211.9698	5248.1668	---	---
		5755	36.645	5736.7479	5773.3929	---	---
		5795	36.691	5776.7494	5813.4404	---	---
11AC20SISO	Ant1	5180	17.995	5171.0273	5189.0223	---	---
		5220	17.955	5211.0706	5229.0256	---	---
		5240	18.031	5231.0247	5249.0557	---	---
		5745	18.306	5735.9126	5754.2186	---	---
		5785	18.372	5775.8613	5794.2333	---	---
		5825	18.332	5815.8500	5834.1820	---	---
11AC40SISO	Ant1	5190	36.152	5171.9796	5208.1316	---	---
		5230	36.123	5211.9907	5248.1137	---	---
		5755	36.659	5736.7246	5773.3836	---	---
		5795	36.655	5776.7373	5813.3923	---	---
11AX20SISO	Ant1	5180	18.987	5170.5435	5189.5305	---	---
		5220	18.997	5210.5669	5229.5639	---	---
		5240	18.975	5230.5265	5249.5015	---	---
		5745	19.172	5735.4485	5754.6205	---	---
		5785	19.184	5775.4451	5794.6291	---	---
		5825	19.313	5815.3437	5834.6567	---	---
11AX40SISO	Ant1	5190	37.588	5171.2749	5208.8629	---	---
		5230	37.677	5211.2308	5248.9078	---	---
		5755	38.037	5736.0775	5774.1145	---	---
		5795	38.079	5776.0603	5814.1393	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



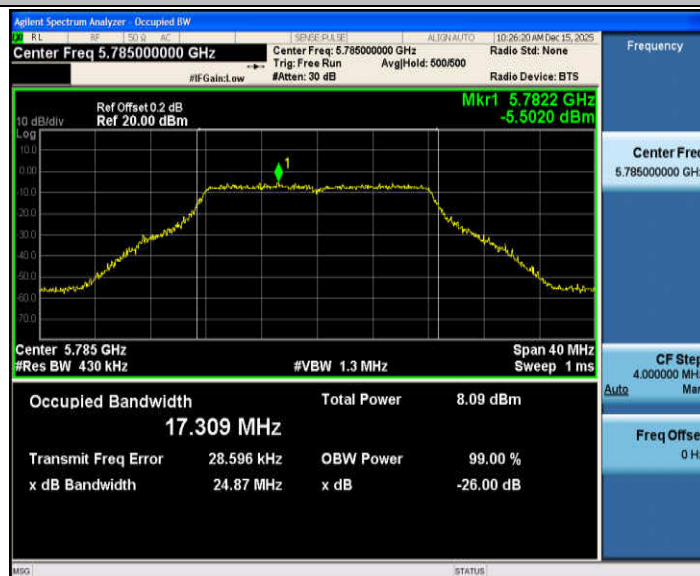
11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



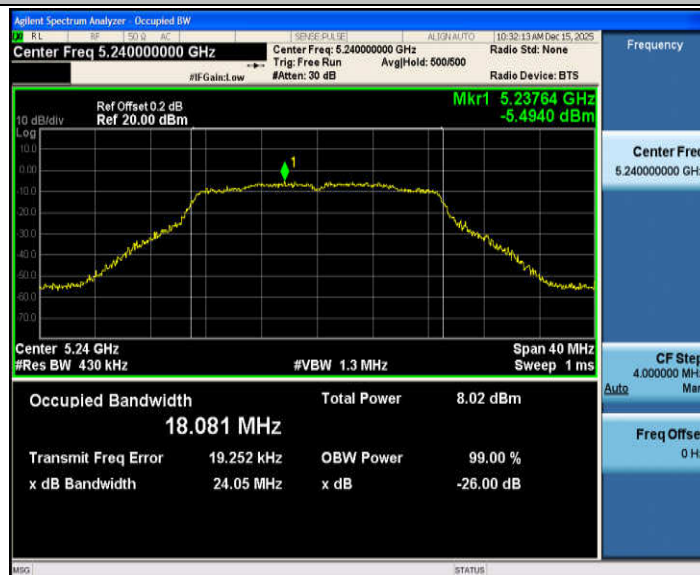
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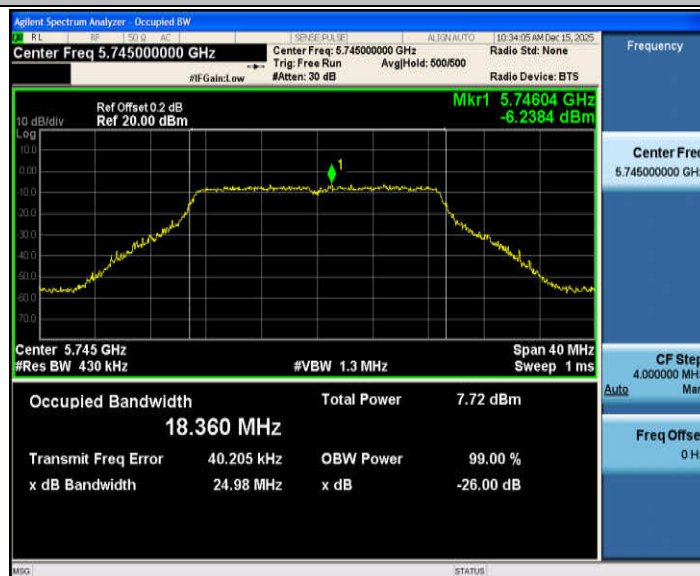
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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



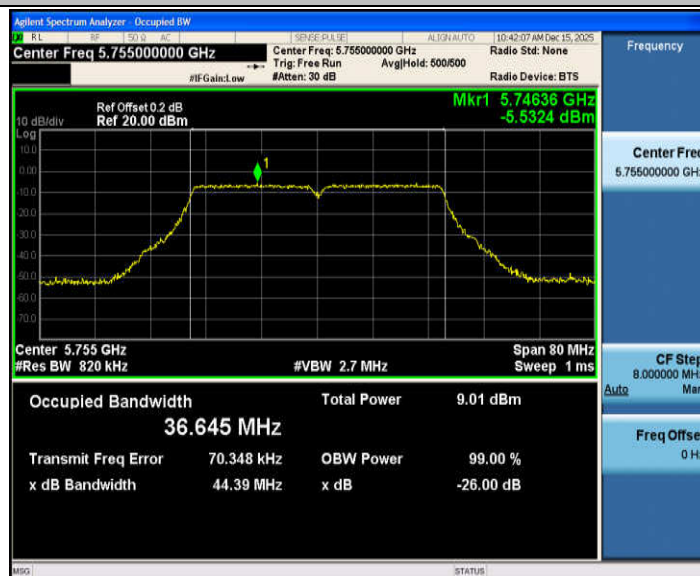
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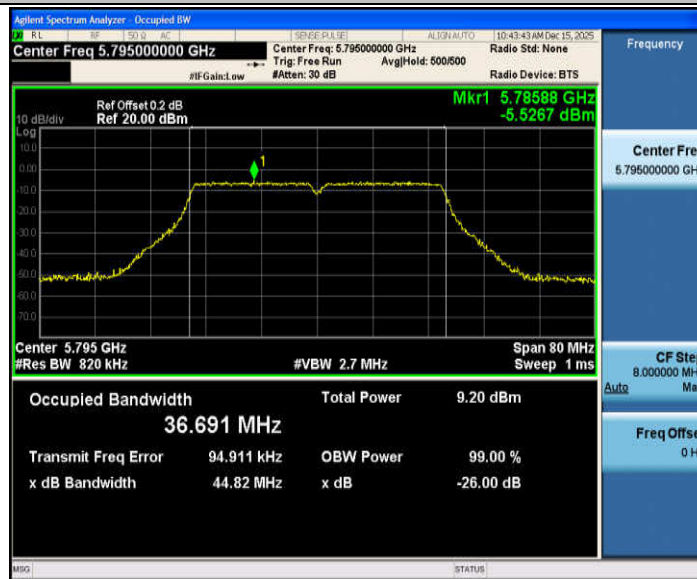
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11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



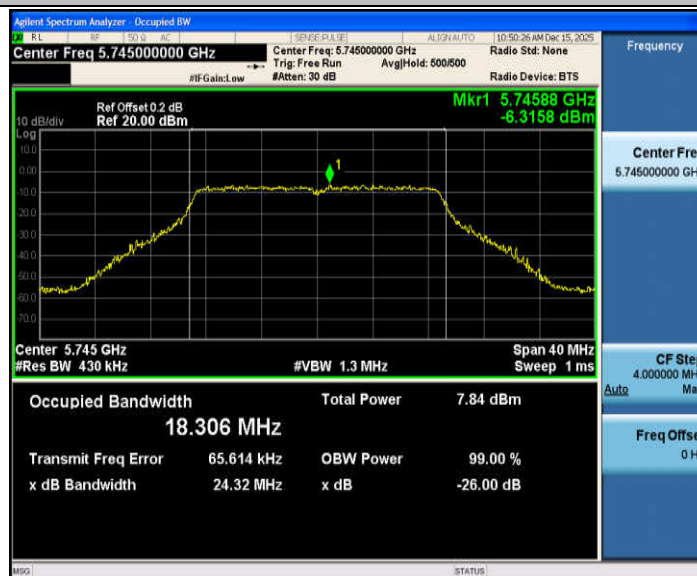
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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



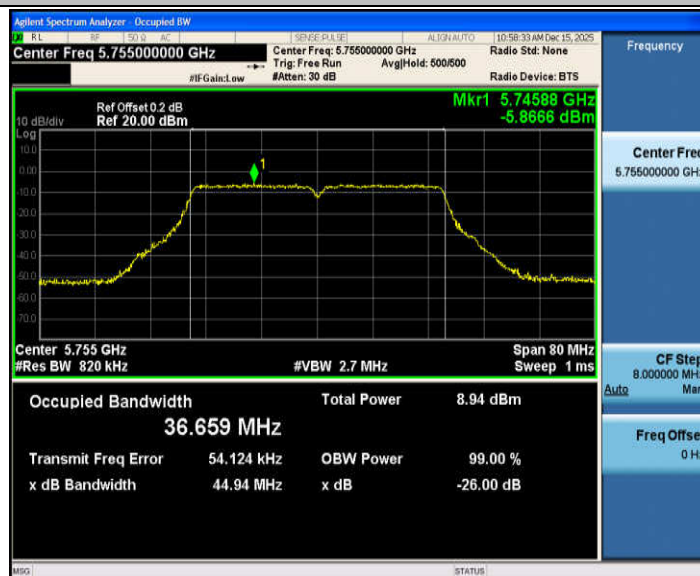
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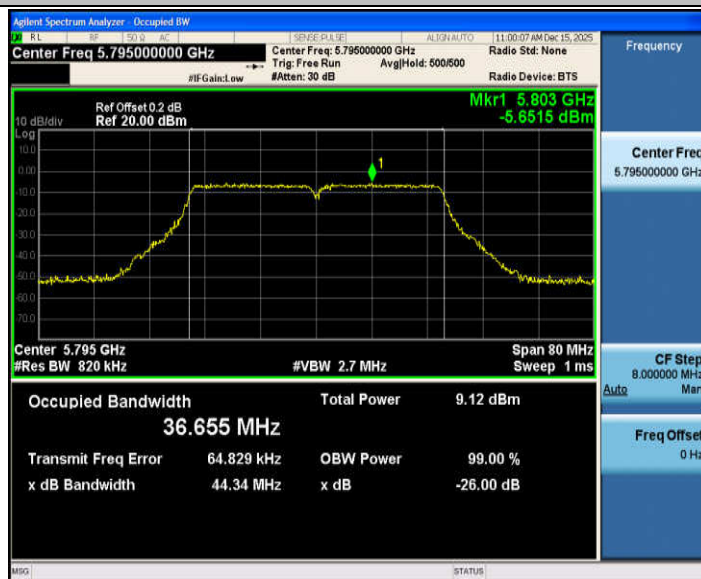
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AX20SISO_Ant1_5180



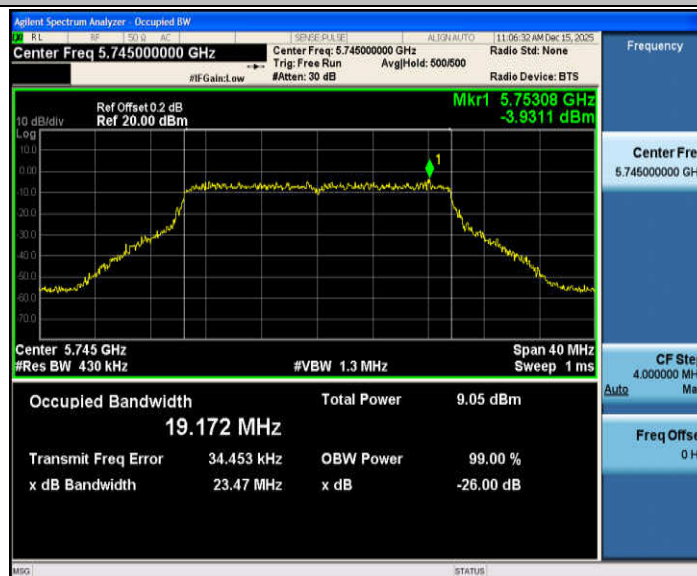
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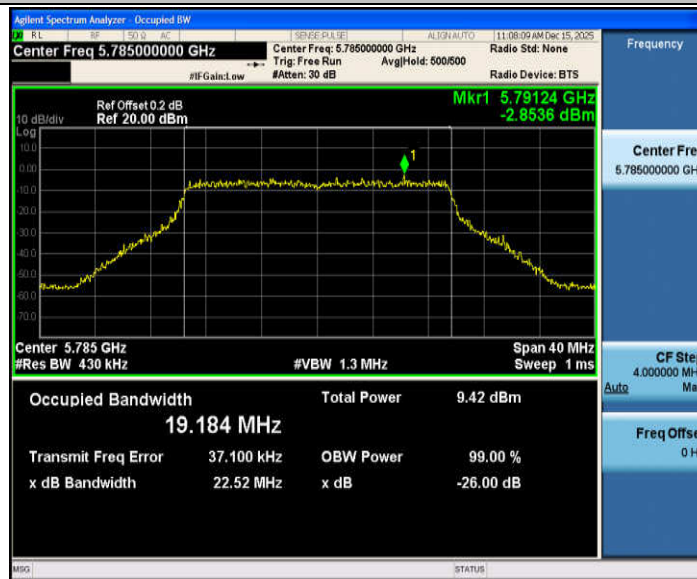
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11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



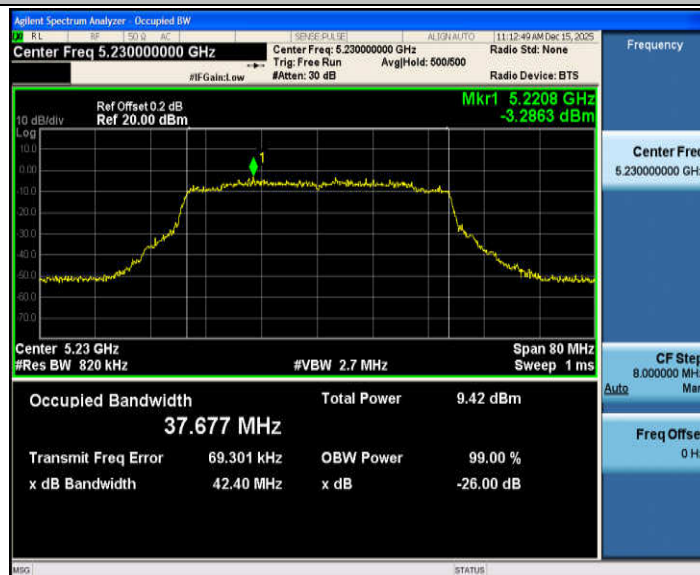
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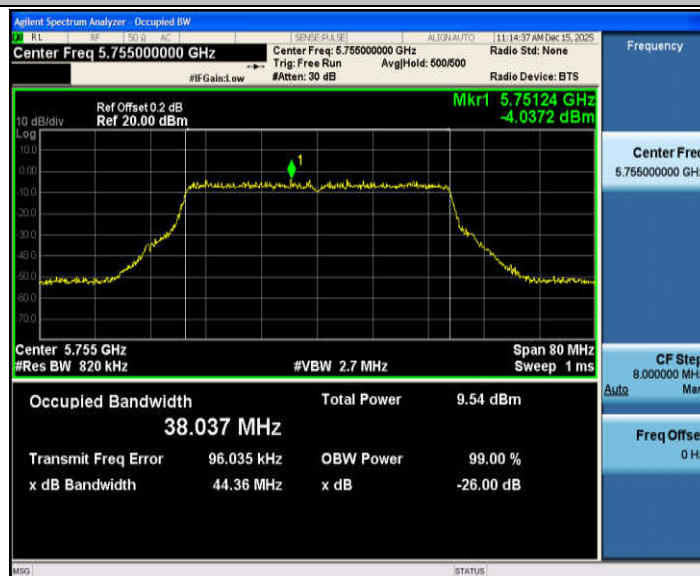
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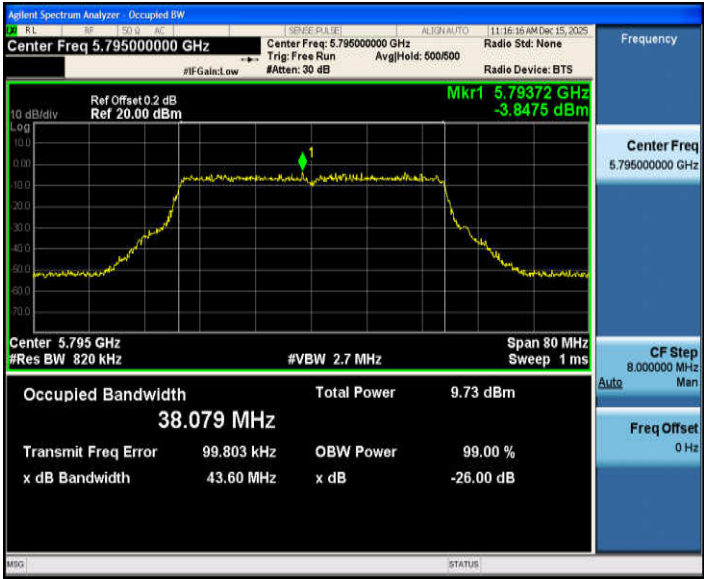
11AX40SISO_Ant1_5230



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



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	17.560	5736.240	5753.800	0.5	PASS
		5785	17.560	5776.240	5793.800	0.5	PASS
		5825	17.520	5816.240	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	35.920	5777.240	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.320	5736.480	5753.800	0.5	PASS
		5785	17.560	5776.240	5793.800	0.5	PASS
		5825	17.280	5816.480	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AX20SISO	Ant1	5745	18.440	5735.800	5754.240	0.5	PASS
		5785	18.360	5775.760	5794.120	0.5	PASS
		5825	18.360	5815.760	5834.120	0.5	PASS
11AX40SISO	Ant1	5755	37.600	5736.280	5773.880	0.5	PASS
		5795	37.600	5776.280	5813.880	0.5	PASS

11A_Ant1_5745

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.745000000 GHz

Ref Offset 0.2 dB
Ref 20.00 dBm

ΔMkr3 16.32 MHz
0.239 dB

Center 5.74500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 3.867 ms (1001 pts)

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.736 84 GHz	-14.983 dBm			
2	N	1	f	5.750 00 GHz	-9.516 dBm			
3	Δ1	1	f (Δ)	16.32 MHz (Δ)	0.239 dB			

11A_Ant1_5785

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.785000000 GHz

Ref Offset 0.2 dB
Ref 20.00 dBm

ΔMkr3 16.32 MHz
0.705 dB

Center 5.78500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 3.867 ms (1001 pts)

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.776 84 GHz	-14.929 dBm			
2	N	1	f	5.786 28 GHz	-9.035 dBm			
3	Δ1	1	f (Δ)	16.32 MHz (Δ)	0.705 dB			

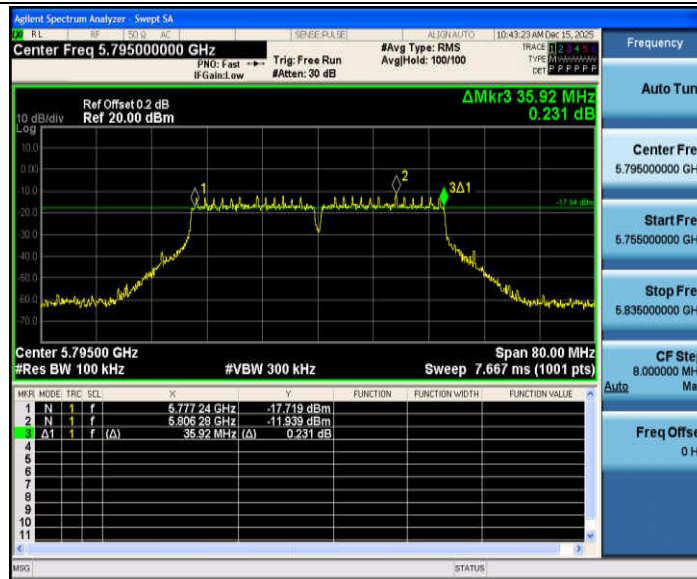


11N20SISO_Ant1_5745



11N20SISO_Ant1_5785





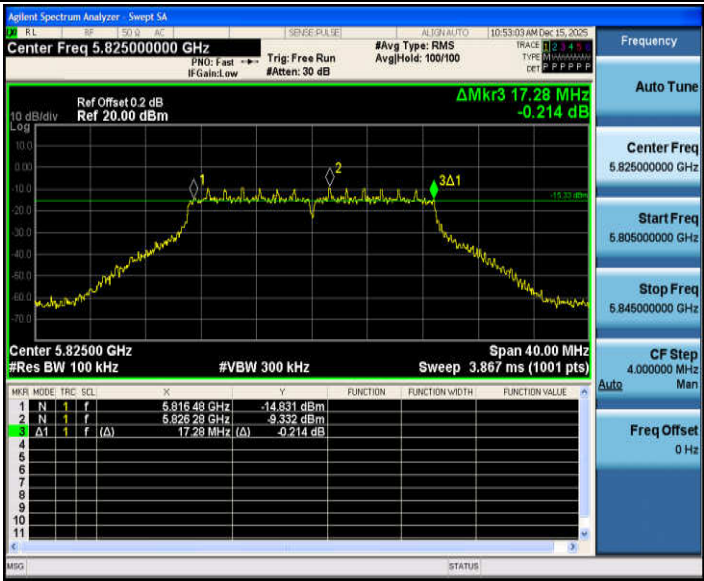
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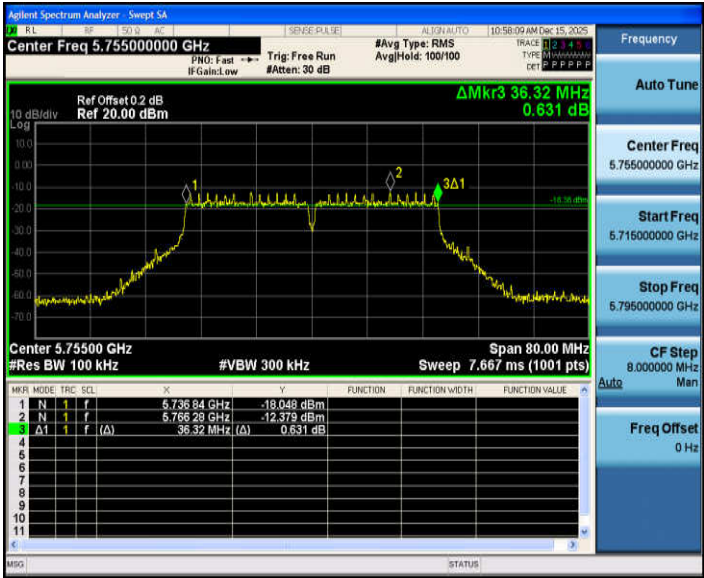
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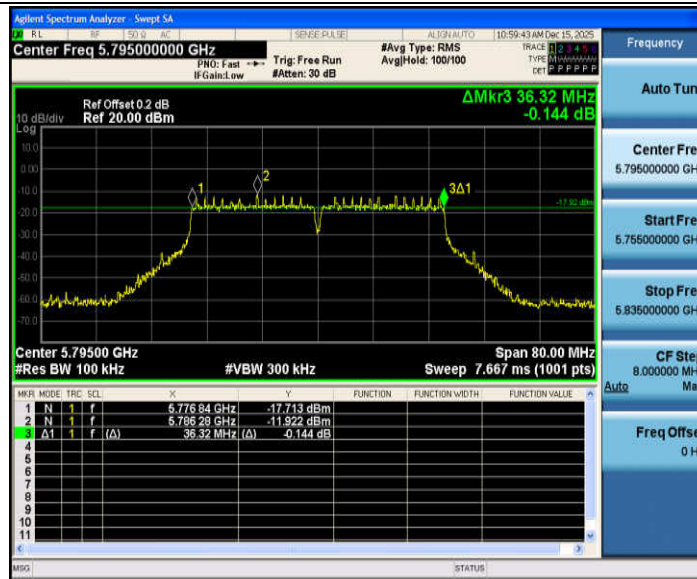
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785

