

FCC Appendix RF Test Data for 5GWIFI

Company: : SHENZHEN TVT DIGITAL TECHNOLOGY CO.,LTD.

EUT : IP Camera

Model Number : TD-9557S4-C

FCC ID : 2ATOW-TD-95X7

Report No. : CTA25091101702

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	23.000	5168.080	5191.080	---	---
		5220	23.560	5209.000	5232.560	---	---
		5240	19.520	5230.360	5249.880	---	---
		5745	28.160	5730.320	5758.480	---	---
		5785	20.640	5774.160	5794.800	---	---
		5825	24.360	5813.520	5837.880	---	---
11N20SISO	Ant1	5180	24.400	5169.240	5193.640	---	---
		5220	24.800	5207.560	5232.360	---	---
		5240	20.560	5229.600	5250.160	---	---
		5745	25.880	5731.000	5756.880	---	---
		5785	23.680	5773.640	5797.320	---	---
		5825	24.960	5812.640	5837.600	---	---
11N40SISO	Ant1	5190	49.120	5169.760	5218.880	---	---
		5230	39.760	5210.320	5250.080	---	---
		5755	53.280	5728.120	5781.400	---	---
		5795	39.440	5775.320	5814.760	---	---
11AC20SISO	Ant1	5180	25.560	5167.320	5192.880	---	---
		5220	28.240	5205.440	5233.680	---	---
		5240	23.320	5228.920	5252.240	---	---
		5745	27.440	5732.360	5759.800	---	---
		5785	26.000	5771.680	5797.680	---	---
		5825	30.880	5810.240	5841.120	---	---
11AC40SISO	Ant1	5190	47.280	5165.680	5212.960	---	---
		5230	44.560	5207.840	5252.400	---	---
		5755	48.640	5729.560	5778.200	---	---
		5795	48.240	5769.640	5817.880	---	---
11AX20SISO	Ant1	5180	28.360	5165.080	5193.440	---	---
		5220	23.480	5209.040	5232.520	---	---
		5240	23.040	5228.600	5251.640	---	---
		5745	26.840	5731.840	5758.680	---	---
		5785	31.720	5769.400	5801.120	---	---
		5825	23.480	5813.640	5837.120	---	---
11AX40SISO	Ant1	5190	49.360	5163.920	5213.280	---	---
		5230	39.760	5210.240	5250.000	---	---
		5755	44.480	5734.920	5779.400	---	---
		5795	40.960	5775.240	5816.200	---	---

11A_Ant1_5180

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.180000000 GHz

Ref Offset 0.5 dB
Ref 20.00 dBm

ΔMkr3 23.00 MHz
1.281 dB

10 dB/div
Log

Center 5.18000 GHz
#Res BW 220 kHz
#VBW 680 kHz
Sweep 1.000 ms (1001 pts)

MR Mode TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

MR Mode	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.180 08 GHz	-32.886 dBm		
2	N	1	f	5.172 56 GHz	-6.473 dBm		
3	Δ1	1	f (Δ)	23.00 MHz (Δ)	1.281 dB		

Frequency

Auto Tune

Center Freq
5.180000000 GHz

Start Freq
5.160000000 GHz

Stop Freq
5.200000000 GHz

CF Step
4.000000 MHz
Man

Freq Offset
0 Hz

11A_Ant1_5220

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.220000000 GHz

Ref Offset 0.5 dB
Ref 20.00 dBm

ΔMkr3 23.56 MHz
-0.082 dB

10 dB/div
Log

Center 5.22000 GHz
#Res BW 220 kHz
#VBW 680 kHz
Sweep 1.000 ms (1001 pts)

MR Mode TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

MR Mode	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.209 00 GHz	-24.200 dBm		
2	N	1	f	5.227 56 GHz	2.122 dBm		
3	Δ1	1	f (Δ)	23.56 MHz (Δ)	-0.082 dB		

Frequency

Auto Tune

Center Freq
5.220000000 GHz

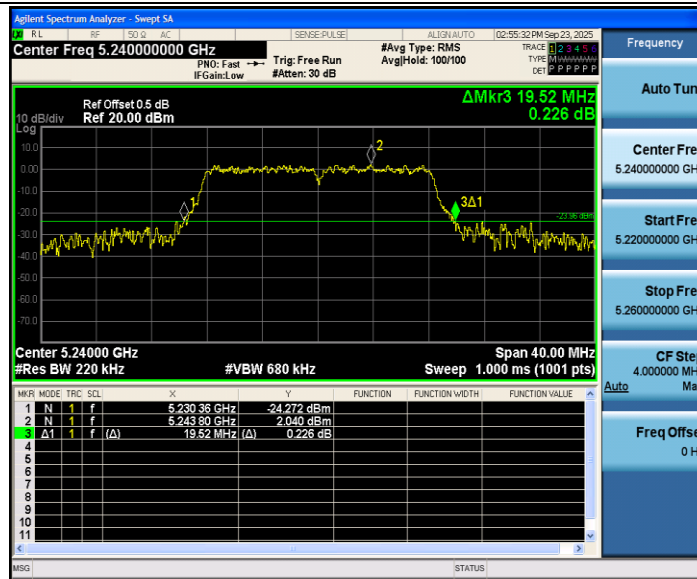
Start Freq
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Stop Freq
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CF Step
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Man

Freq Offset
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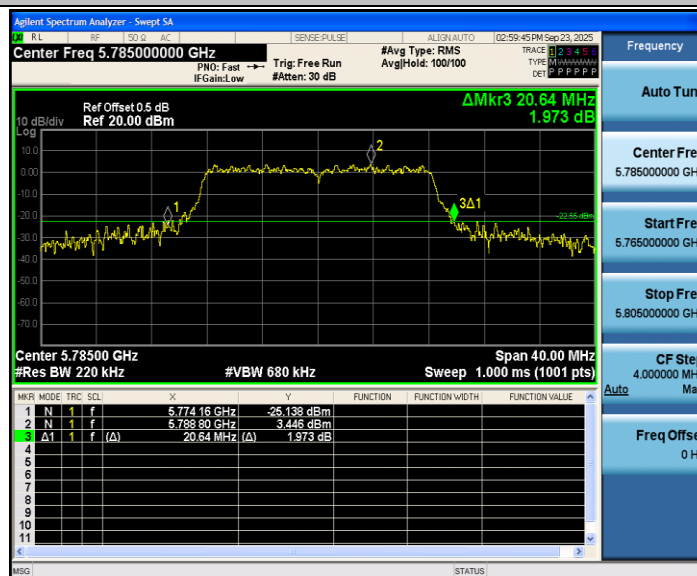
11A_Ant1_5240



11A_Ant1_5745



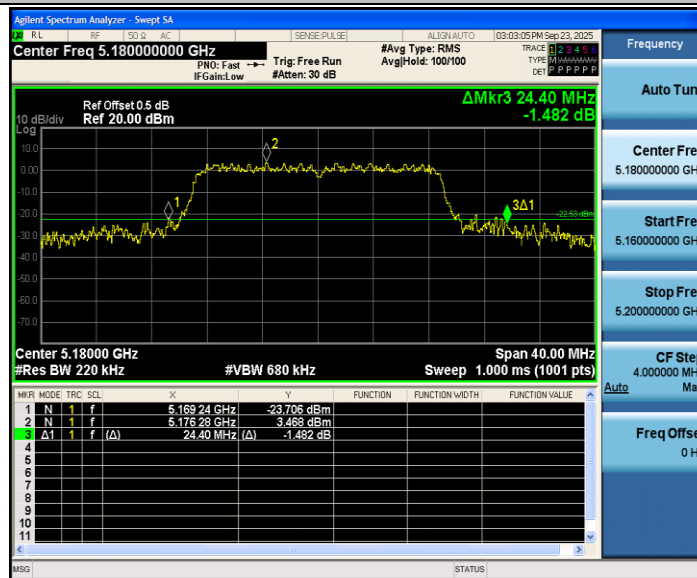
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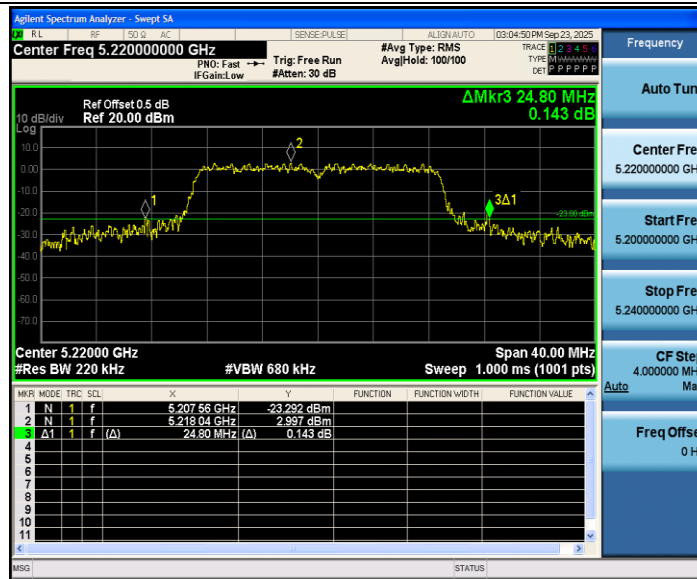
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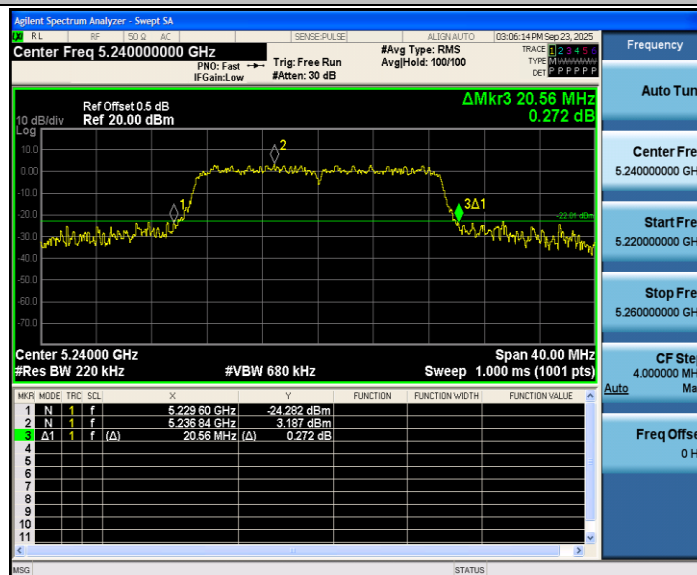
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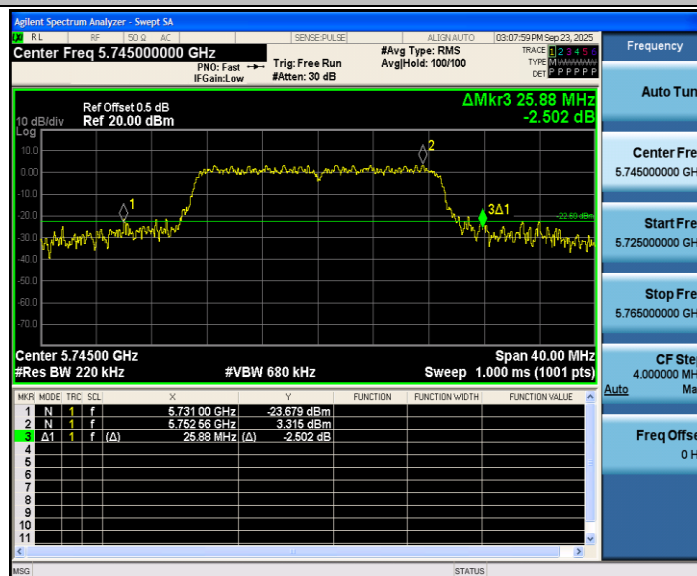
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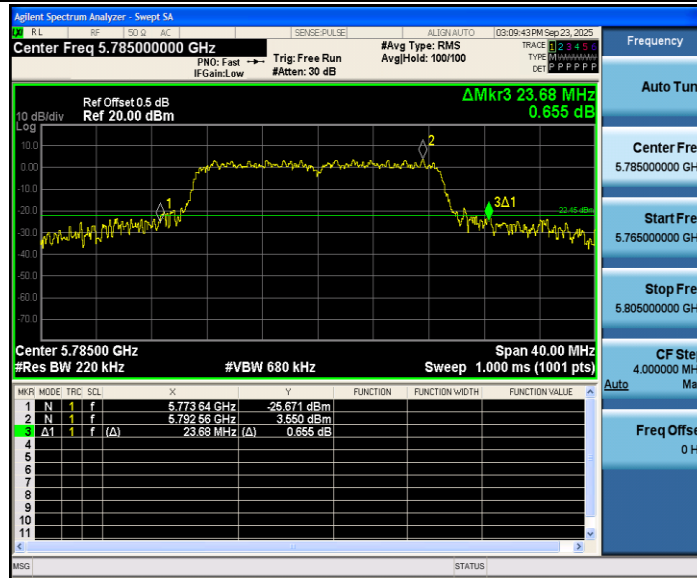
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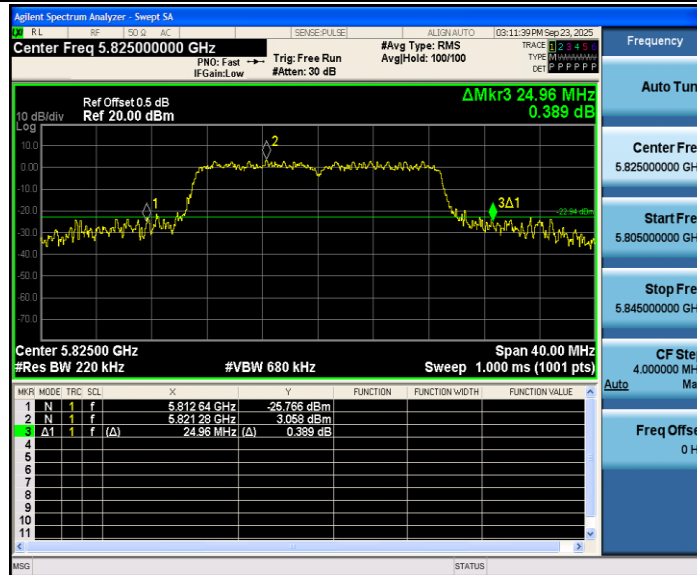
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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



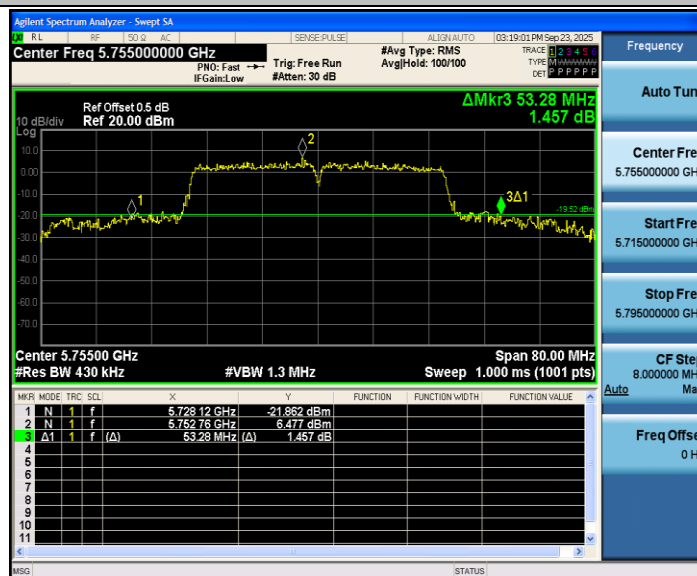
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11N40SISO_Ant1_5230



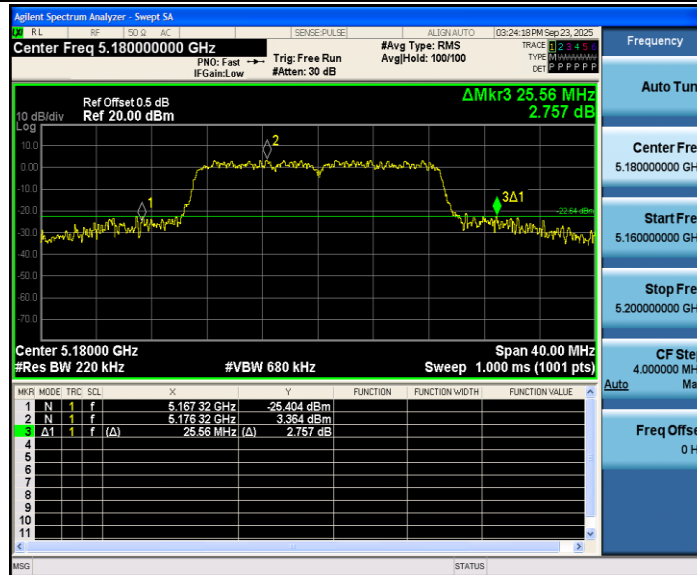
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11N40SISO_Ant1_5795



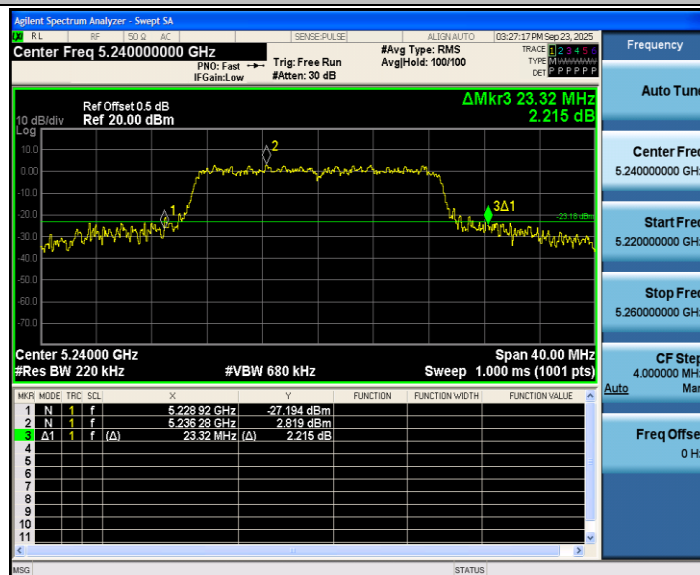
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



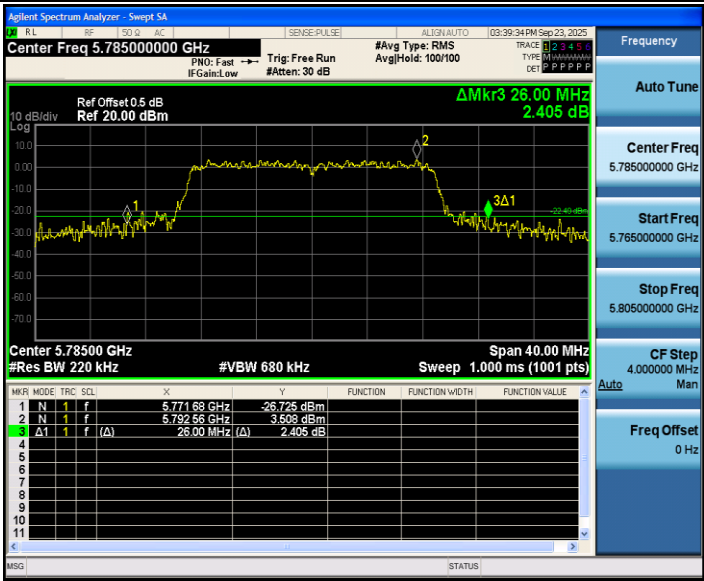
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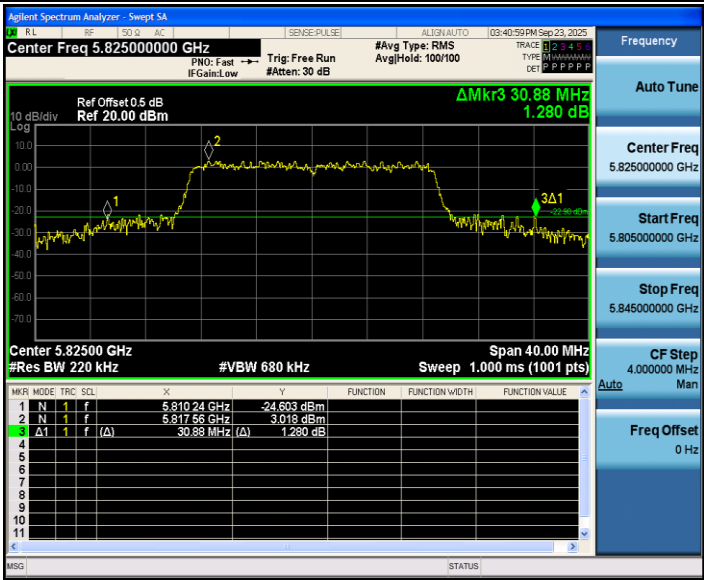
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



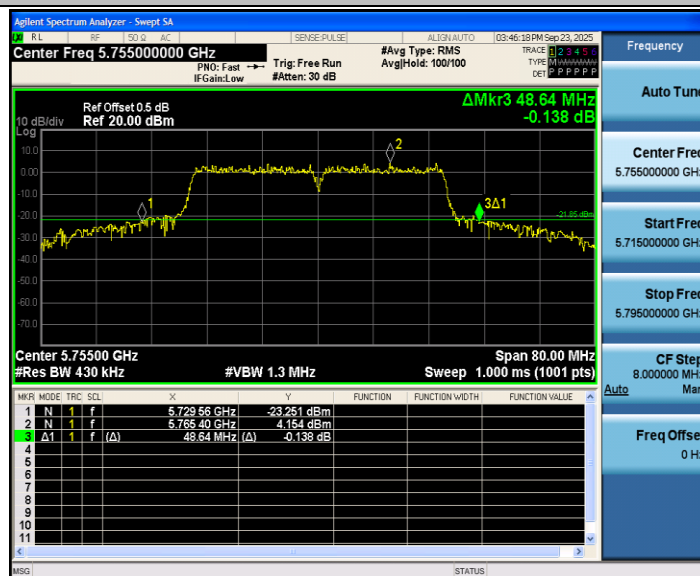
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



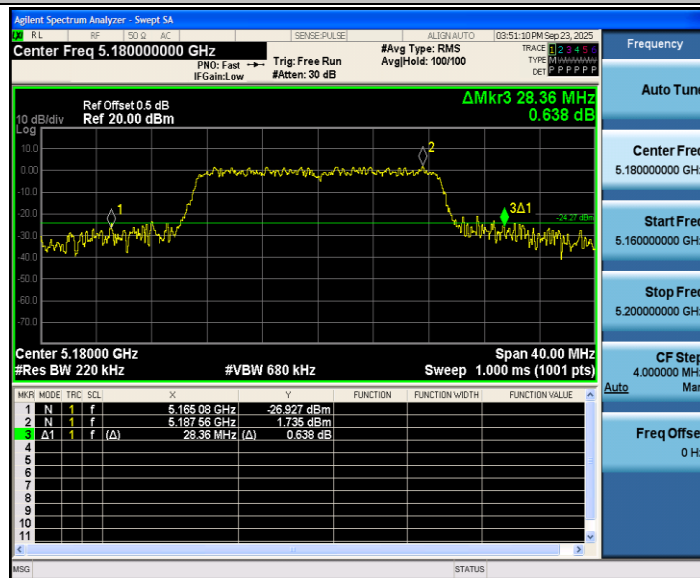
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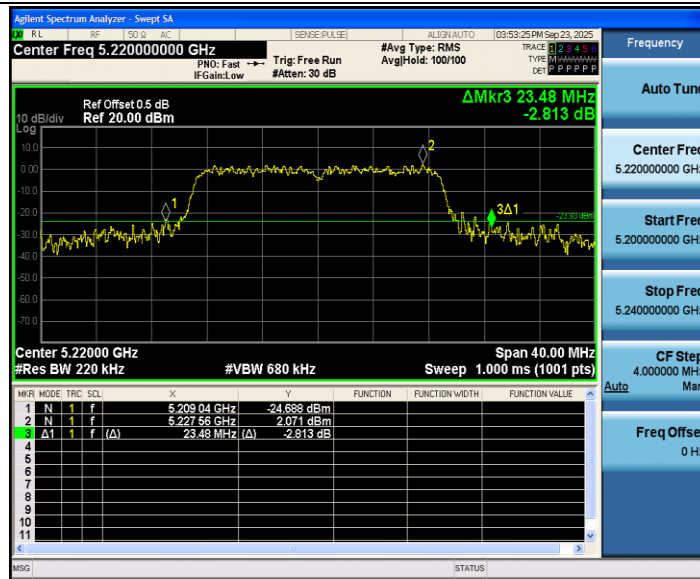
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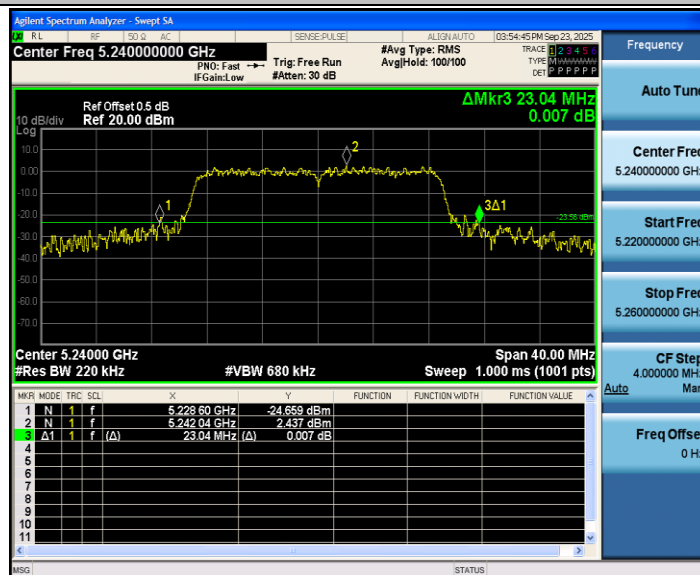
11AX20SISO_Ant1_5180



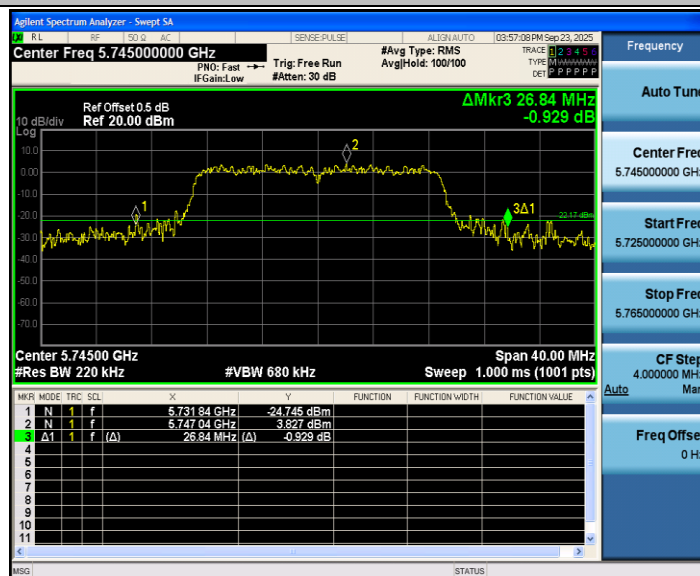
11AX20SISO_Ant1_5220



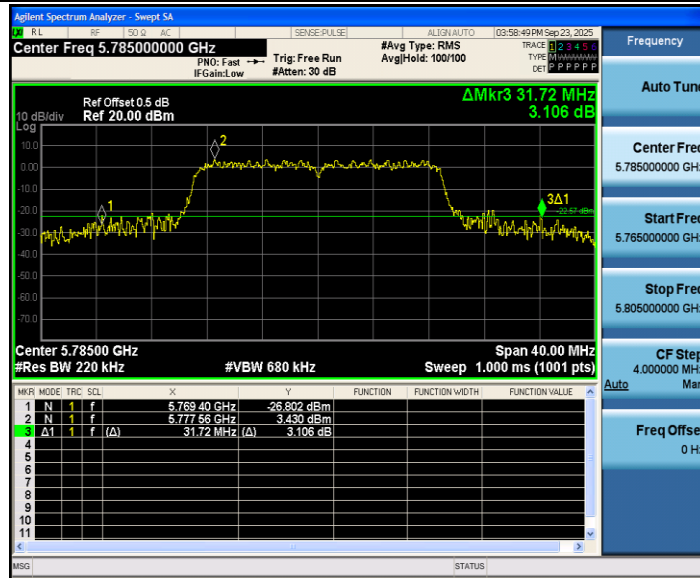
11AX20SISO_Ant1_5240



11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



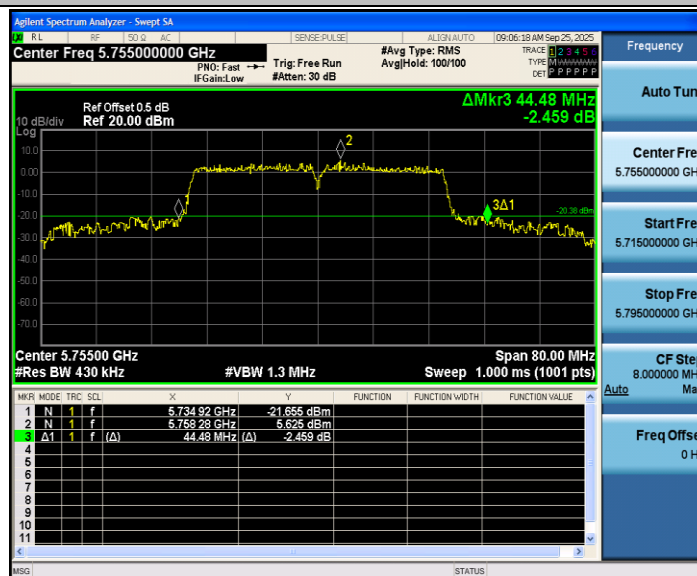
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795

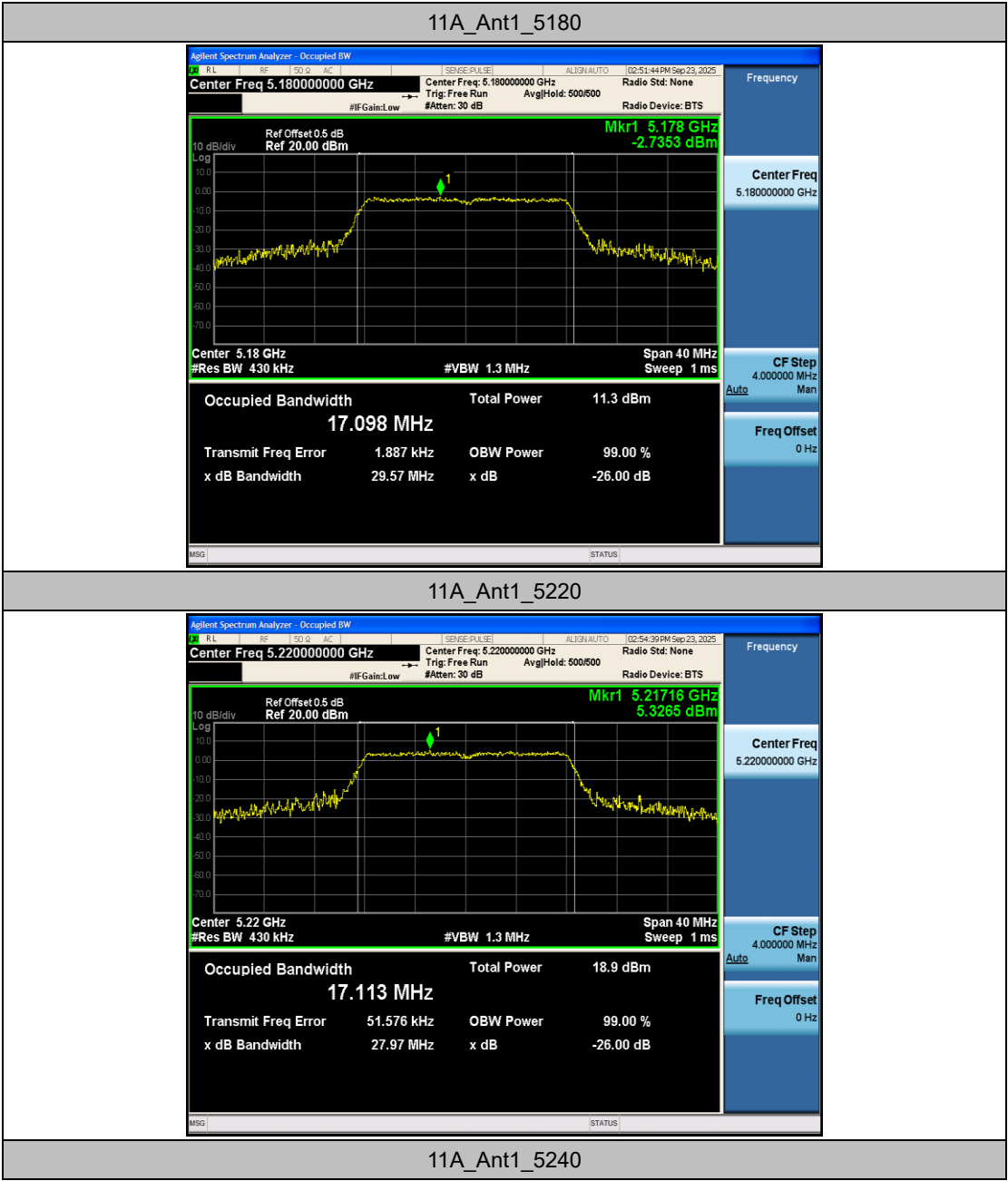


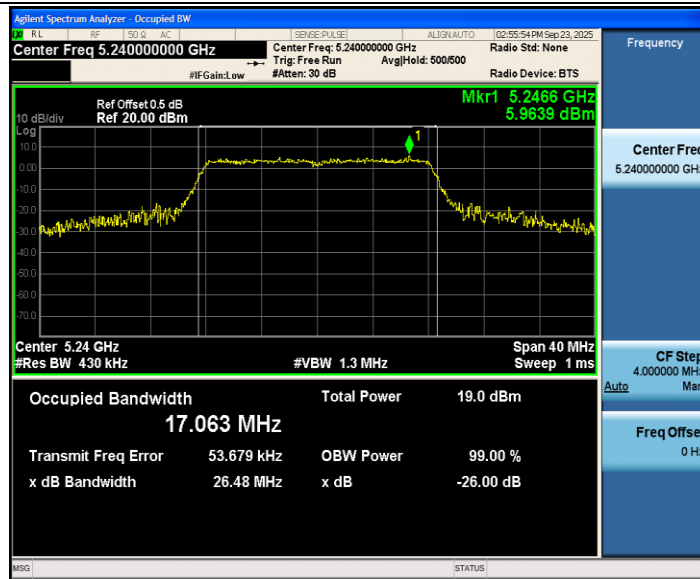
Appendix A2: Occupied channel bandwidth

Test Result

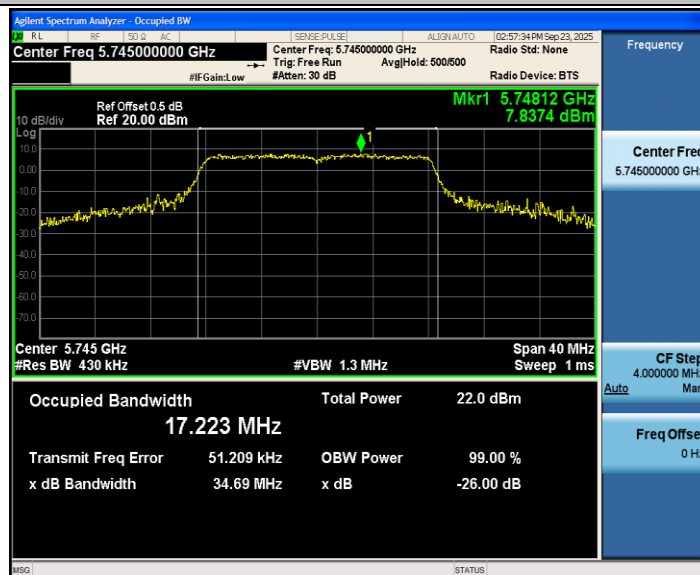
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.098	5171.4529	5188.5509	---	---
		5220	17.113	5211.4951	5228.6081	---	---
		5240	17.063	5231.5222	5248.5852	---	---
		5745	17.223	5736.4397	5753.6627	---	---
		5785	17.100	5776.4883	5793.5883	---	---
		5825	17.104	5816.4615	5833.5655	---	---
11N20SISO	Ant1	5180	17.905	5171.0631	5188.9681	---	---
		5220	17.969	5211.0213	5228.9903	---	---
		5240	17.927	5231.0691	5248.9961	---	---
		5745	17.955	5736.0576	5754.0126	---	---
		5785	17.908	5776.0996	5794.0076	---	---
		5825	17.942	5816.0472	5833.9892	---	---
11N40SISO	Ant1	5190	36.668	5171.7456	5208.4136	---	---
		5230	36.410	5211.8347	5248.2447	---	---
		5755	36.722	5736.6588	5773.3808	---	---
		5795	36.649	5776.7473	5813.3963	---	---
11AC20SISO	Ant1	5180	17.916	5171.0966	5189.0126	---	---
		5220	17.955	5211.0690	5229.0240	---	---
		5240	17.950	5231.0723	5249.0223	---	---
		5745	17.920	5736.0977	5754.0177	---	---
		5785	17.995	5776.0569	5794.0519	---	---
		5825	17.983	5816.0520	5834.0350	---	---
11AC40SISO	Ant1	5190	36.758	5171.6805	5208.4385	---	---
		5230	36.338	5211.8576	5248.1956	---	---
		5755	36.733	5736.6692	5773.4022	---	---
		5795	36.724	5776.6588	5813.3828	---	---
11AX20SISO	Ant1	5180	17.961	5171.0809	5189.0419	---	---
		5220	17.937	5211.0668	5229.0038	---	---
		5240	18.020	5231.0401	5249.0601	---	---
		5745	17.955	5736.0517	5754.0067	---	---
		5785	17.956	5776.0687	5794.0247	---	---
		5825	17.963	5816.0541	5834.0171	---	---
11AX40SISO	Ant1	5190	36.609	5171.7676	5208.3766	---	---
		5230	36.360	5211.8757	5248.2357	---	---
		5755	36.663	5736.6959	5773.3589	---	---
		5795	36.699	5776.6776	5813.3766	---	---

Test Graphs

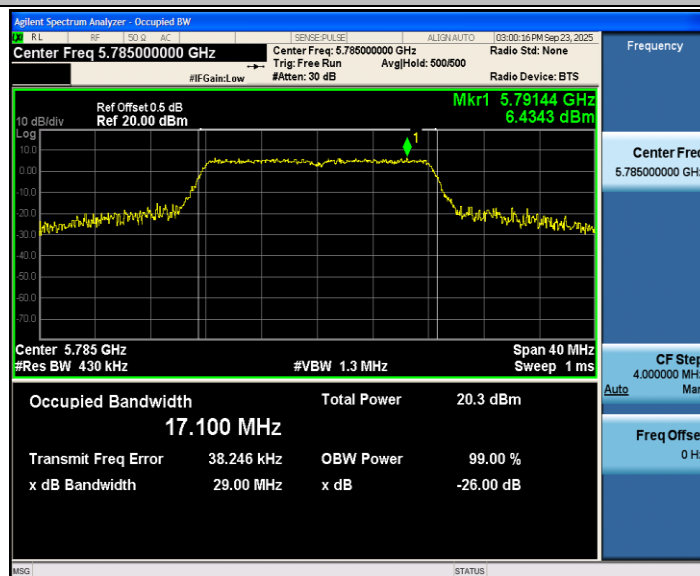




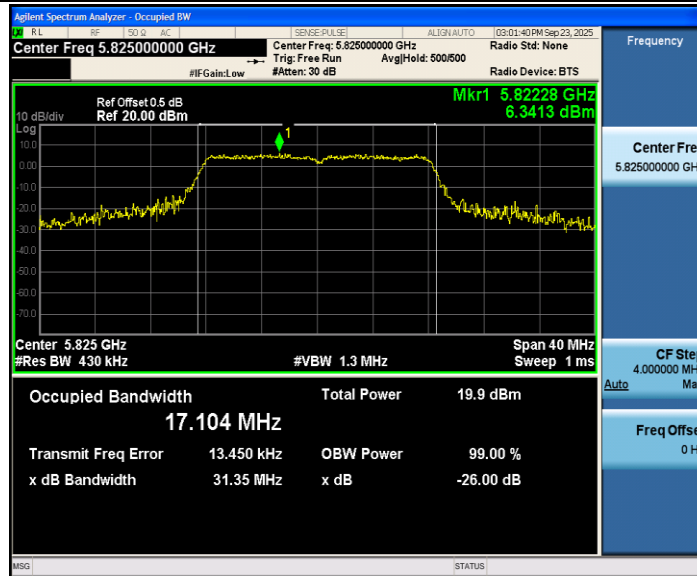
11A_Ant1_5745



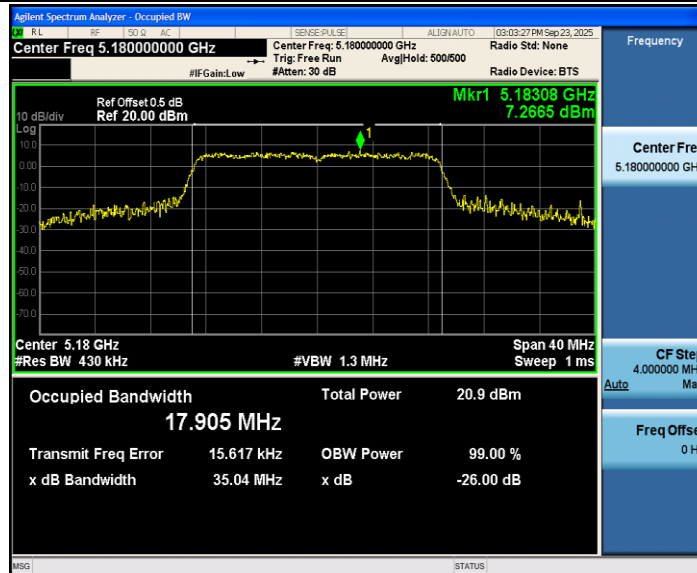
11A_Ant1_5785



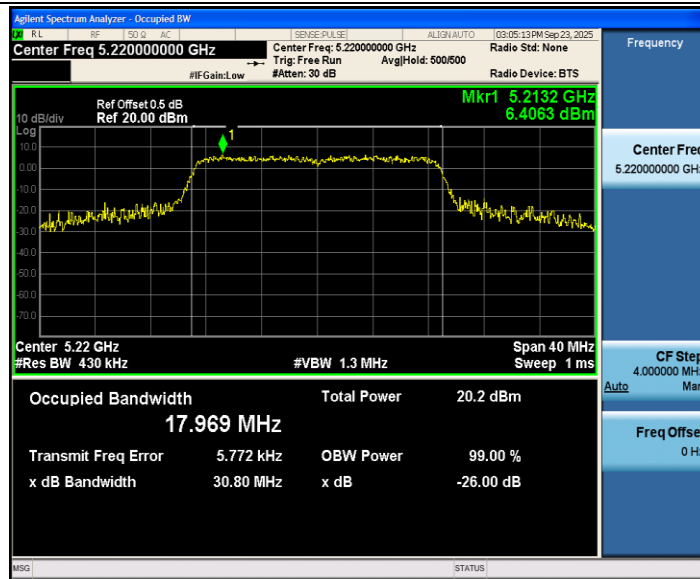
11A_Ant1_5825



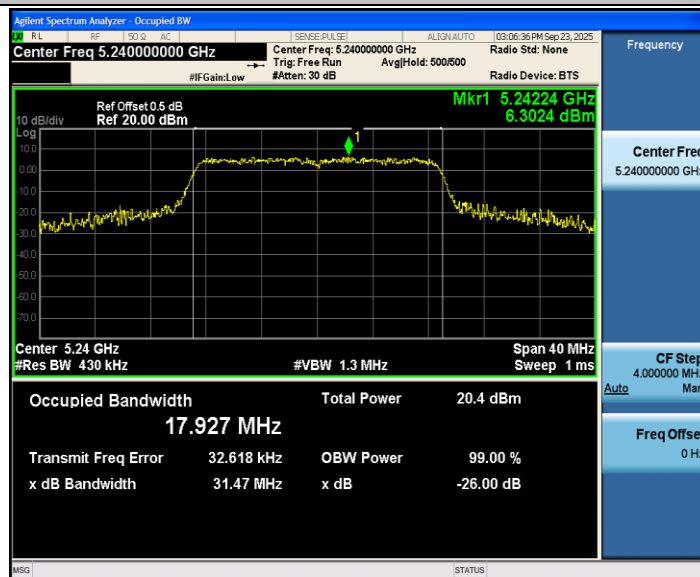
11N20SISO_Ant1_5180



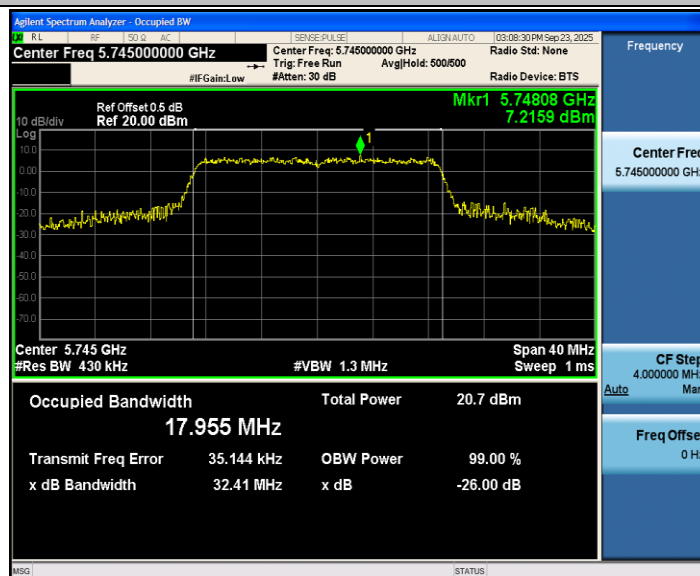
11N20SISO_Ant1_5220



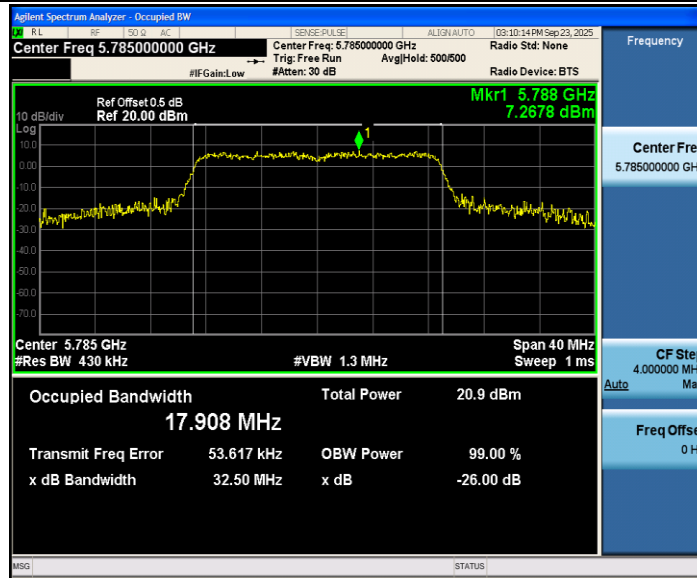
11N20SISO_Ant1_5240



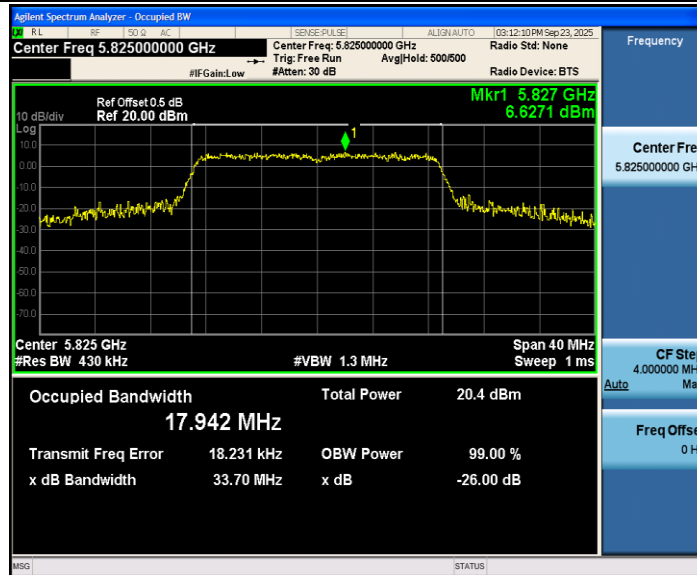
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



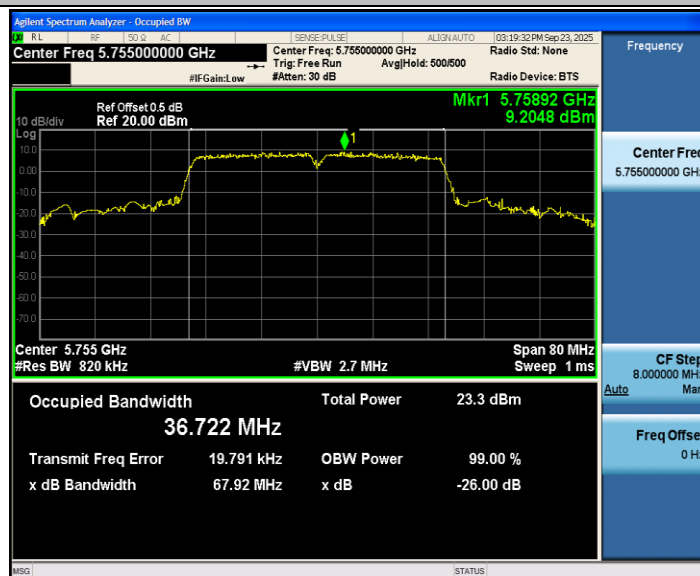
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



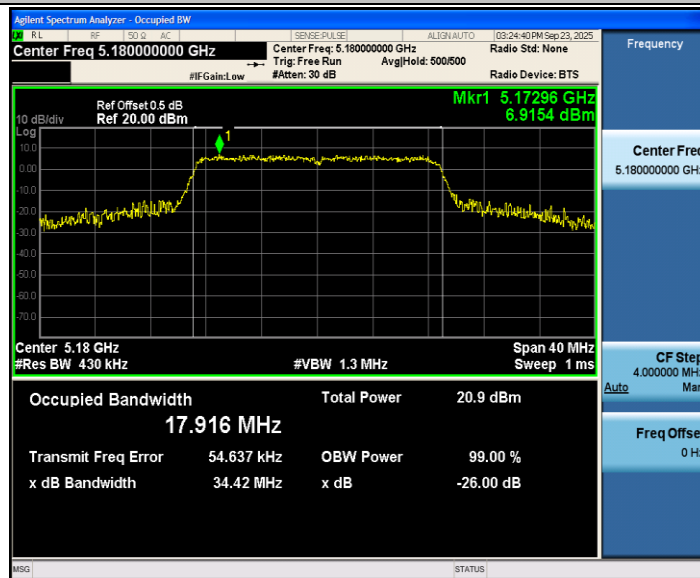
11N40SISO_Ant1_5755



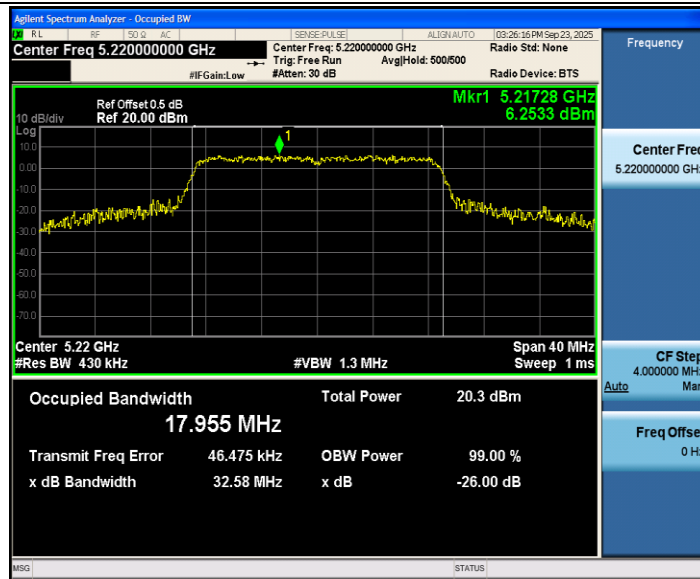
11N40SISO_Ant1_5795



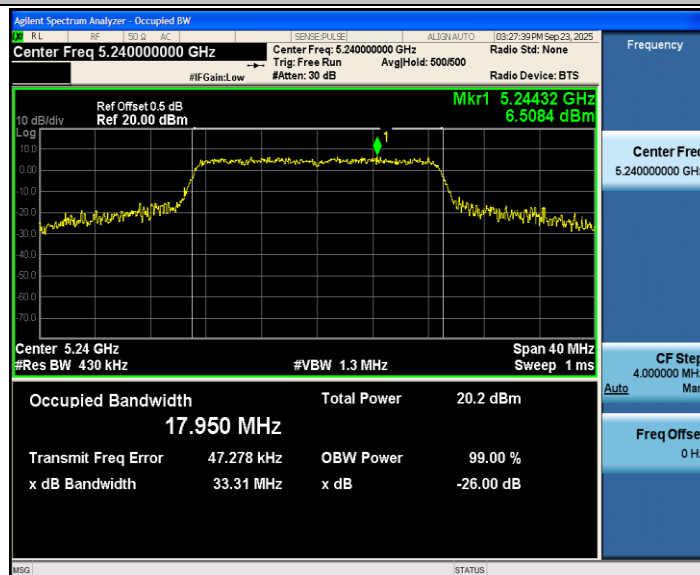
11AC20SISO_Ant1_5180



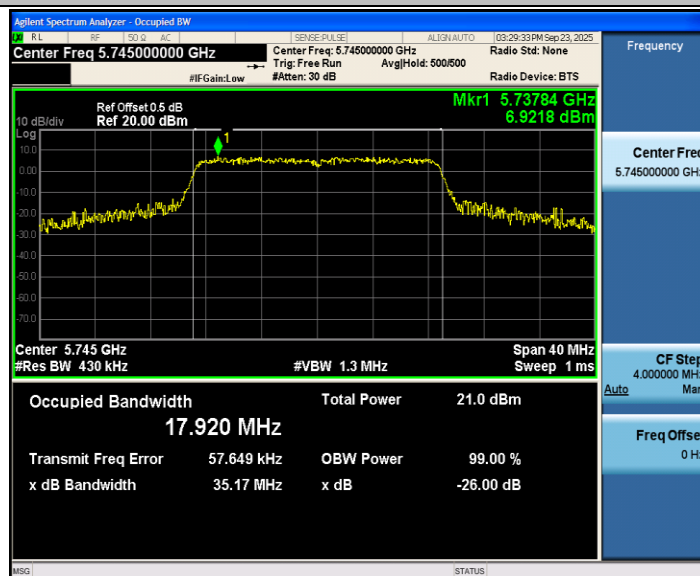
11AC20SISO_Ant1_5220



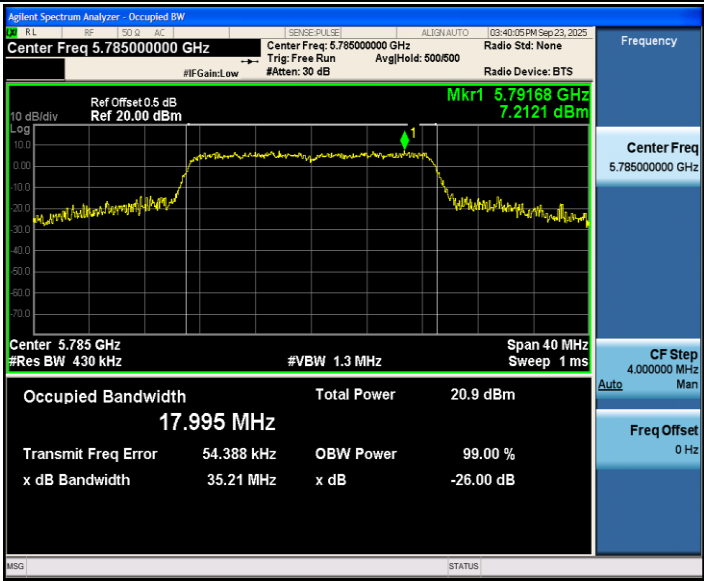
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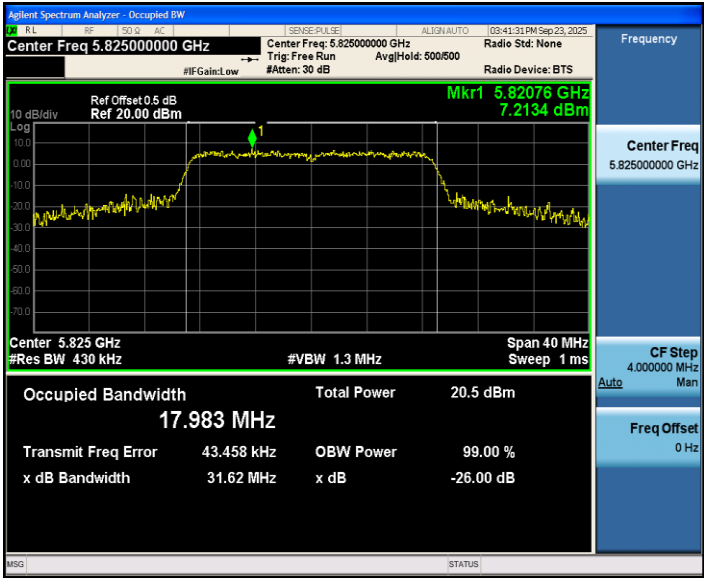
11AC20SISO_Ant1_5745



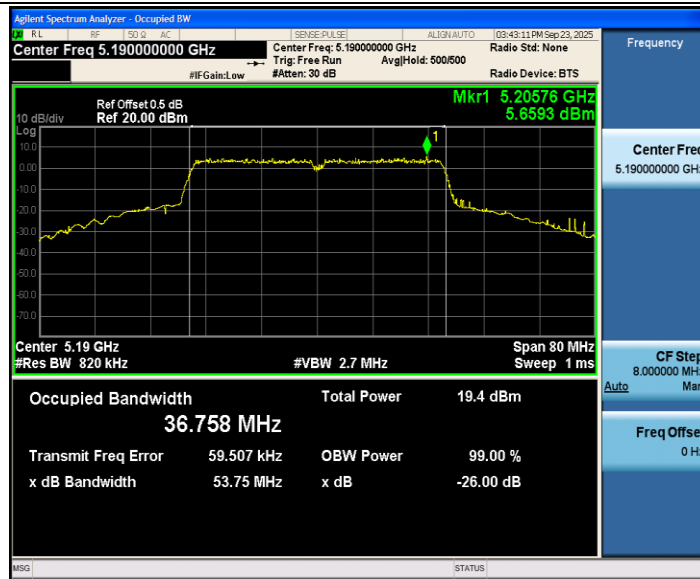
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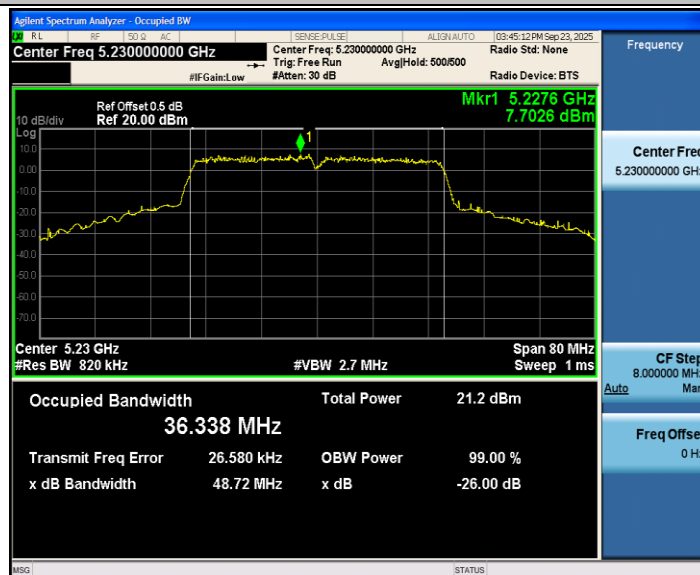
11AC20SISO_Ant1_5825



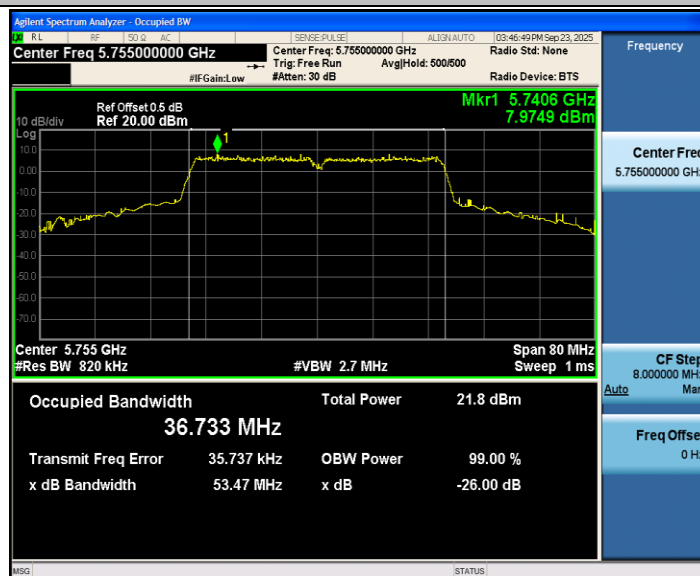
11AC40SISO_Ant1_5190



11AC40ISO_Ant1_5230



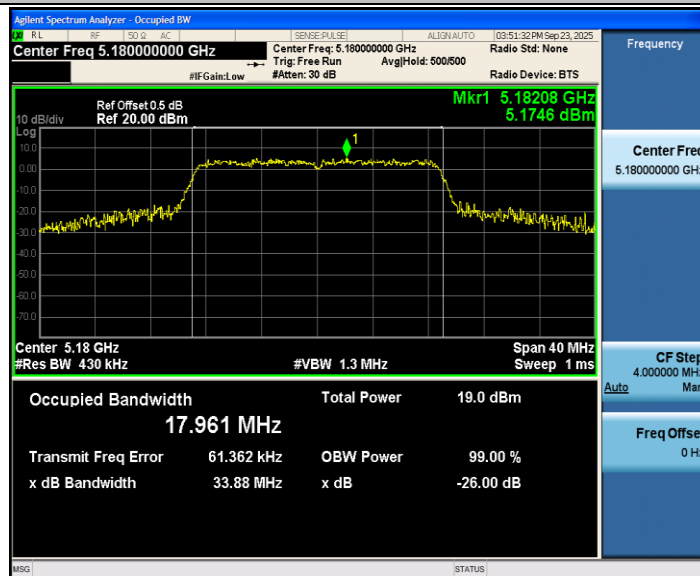
11AC40ISO_Ant1_5755



11AC40SISO_Ant1_5795



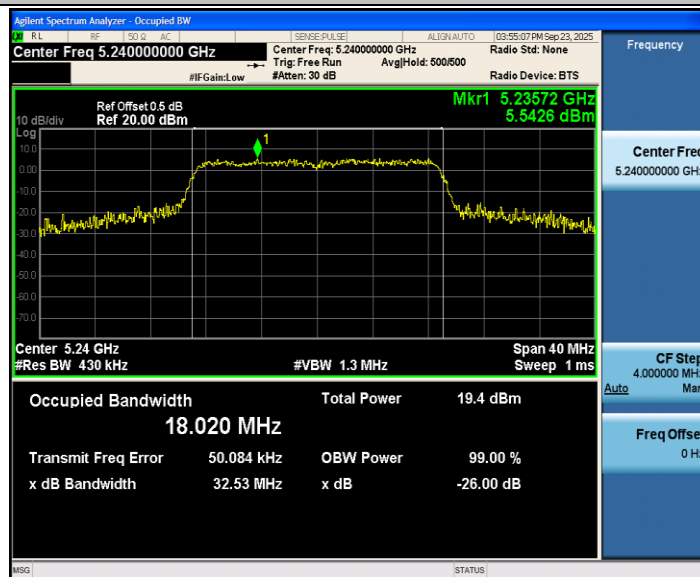
11AX20SISO_Ant1_5180



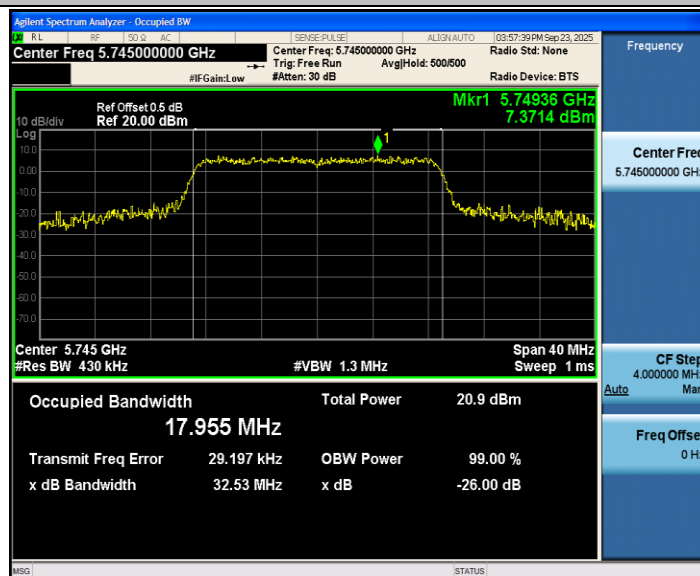
11AX20SISO_Ant1_5220



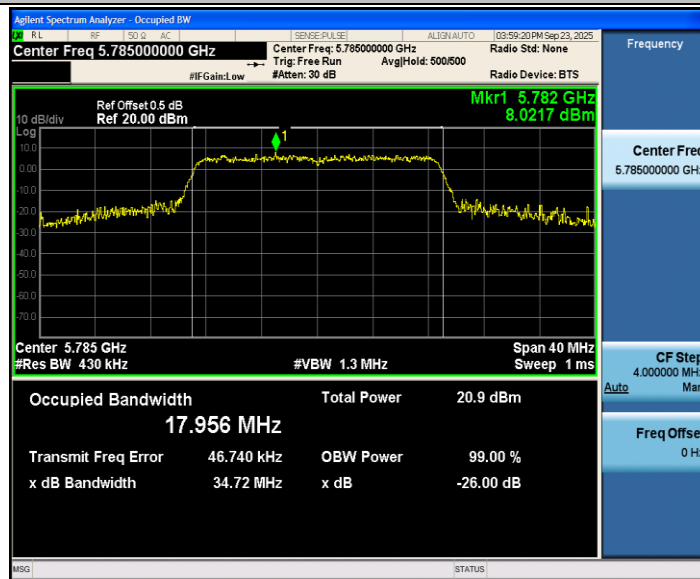
11AX20ISO_Ant1_5240



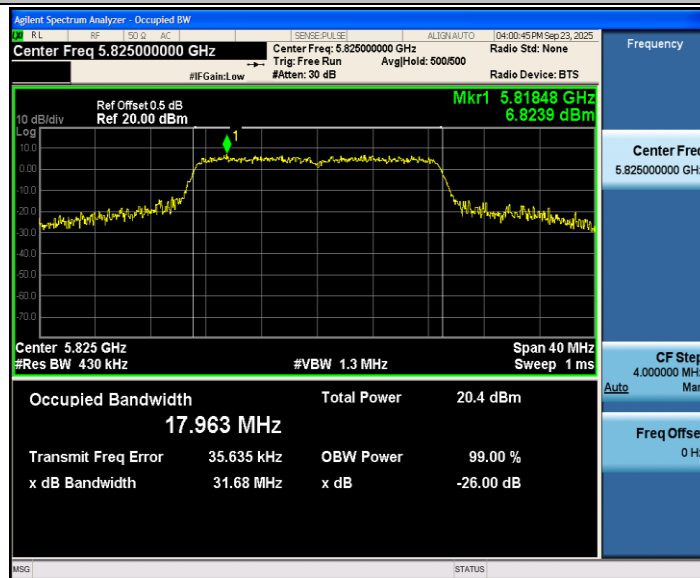
11AX20ISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5190