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Appendix for 5GHz WIFI

Applicant: Fanvil Link Technology Co.,LTD

Address: A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China

Product Name: Hotel Phone

Model: H6W, H4W

FCC ID: 2BCUQ-H6W

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Appendix A1: Emission Bandwidth

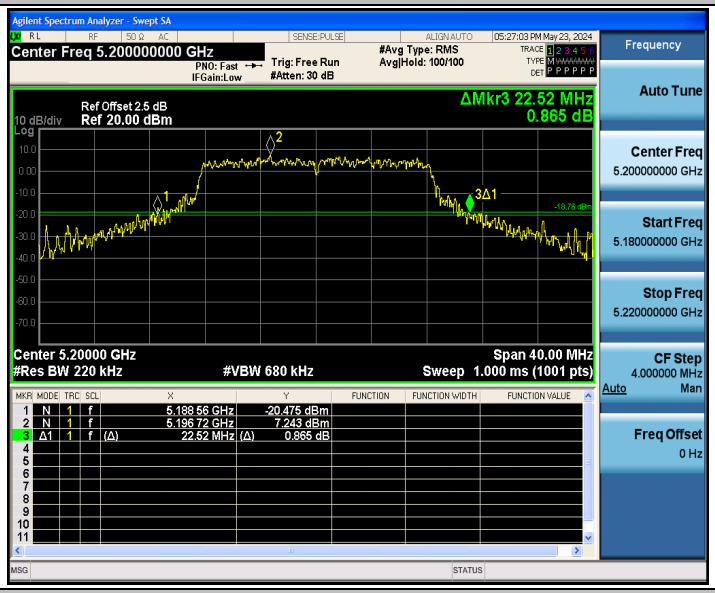
Test Result

Test Mode	Freq. [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Verdict
802.11a	5180	22.640	5168.640	5191.280	PASS
	5200	22.520	5188.560	5211.080	PASS
	5240	22.400	5228.040	5250.440	PASS
	5745	25.400	5731.640	5757.040	PASS
	5785	23.320	5772.480	5795.800	PASS
	5825	24.040	5813.080	5837.120	PASS
802.11n(HT20)	5180	24.920	5167.440	5192.360	PASS
	5200	25.120	5186.840	5211.960	PASS
	5240	23.840	5228.480	5252.320	PASS
	5745	27.080	5730.480	5757.560	PASS
	5785	25.320	5772.640	5797.960	PASS
	5825	25.720	5811.840	5837.560	PASS
802.11n(HT40)	5190	44.480	5168.160	5212.640	PASS
	5230	45.600	5208.000	5253.600	PASS
	5755	44.480	5732.680	5777.160	PASS
	5795	47.120	5770.920	5818.040	PASS
802.11ac(VHT20)	5180	25.040	5167.320	5192.360	PASS
	5200	24.680	5187.520	5212.200	PASS
	5240	25.160	5227.720	5252.880	PASS
	5745	24.880	5732.080	5756.960	PASS
	5785	28.240	5769.920	5798.160	PASS
	5825	25.000	5812.280	5837.280	PASS
802.11ac(VHT40)	5190	45.440	5167.280	5212.720	PASS
	5230	43.440	5208.160	5251.600	PASS
	5755	51.520	5726.680	5778.200	PASS
	5795	44.560	5772.360	5816.920	PASS
802.11ac(VHT80)	5210	88.800	5165.840	5254.640	PASS
	5775	110.400	5711.160	5821.560	PASS
802.11ax(HE20)	5180	23.480	5168.600	5192.080	PASS
	5200	23.720	5187.400	5211.120	PASS
	5240	25.000	5227.040	5252.040	PASS
	5745	26.360	5731.200	5757.560	PASS
	5785	25.080	5771.680	5796.760	PASS
	5825	24.680	5812.800	5837.480	PASS
802.11ax(HE40)	5190	42.960	5168.480	5211.440	PASS
	5230	45.120	5208.320	5253.440	PASS
	5755	49.520	5727.240	5776.760	PASS
	5795	45.760	5770.600	5816.360	PASS
802.11ax(HE80)	5210	83.360	5168.720	5252.080	PASS
	5775	85.600	5731.800	5817.400	PASS

Test Graphs

802.11a_5180

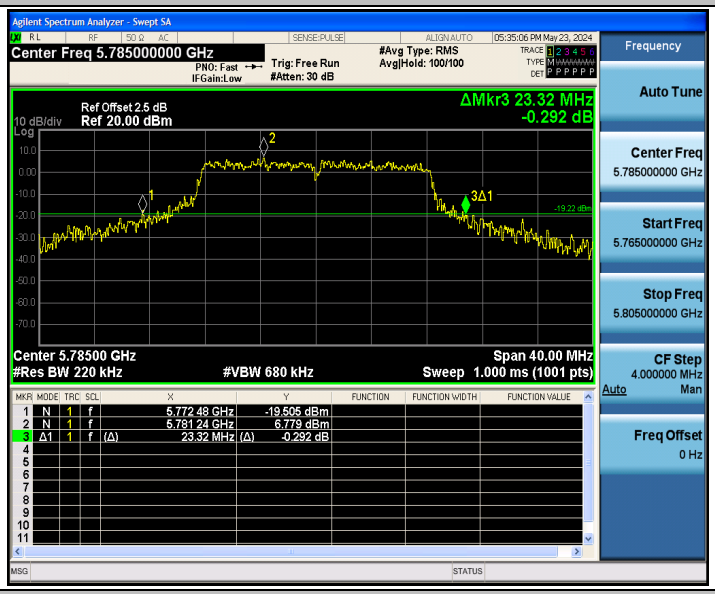
802.11a_5200



802.11a_5240

802.11a_5745

802.11a_5785



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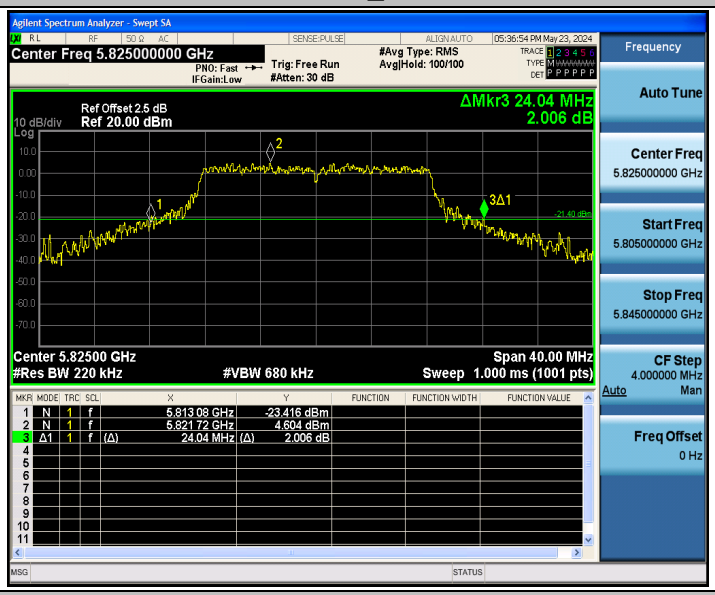

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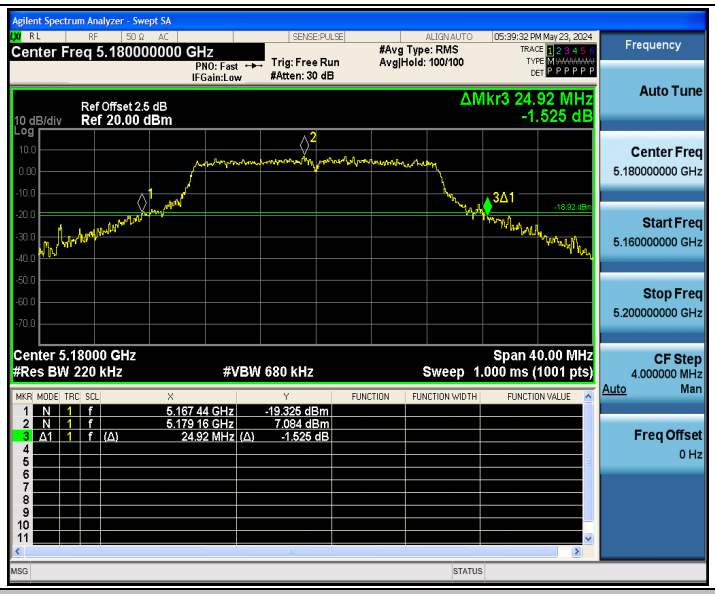

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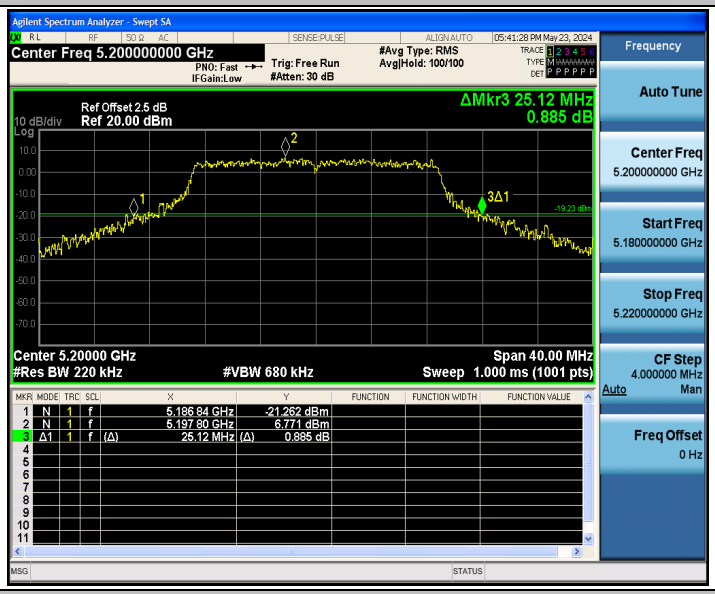

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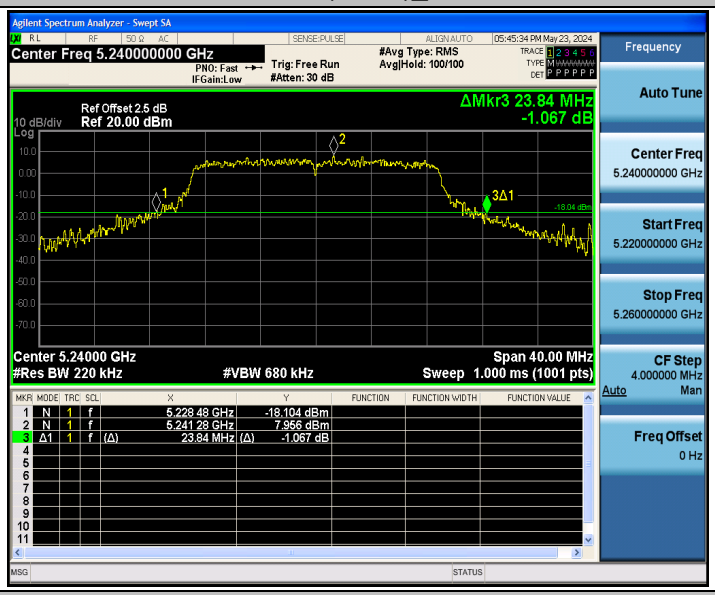

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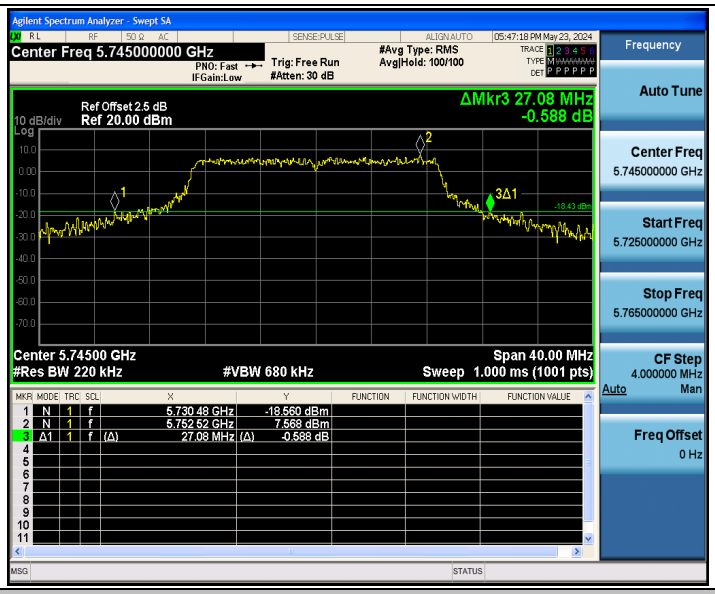

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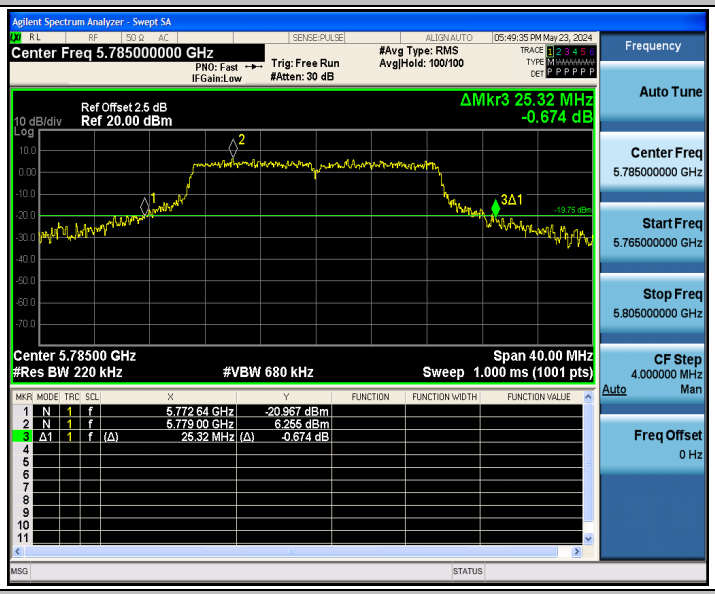

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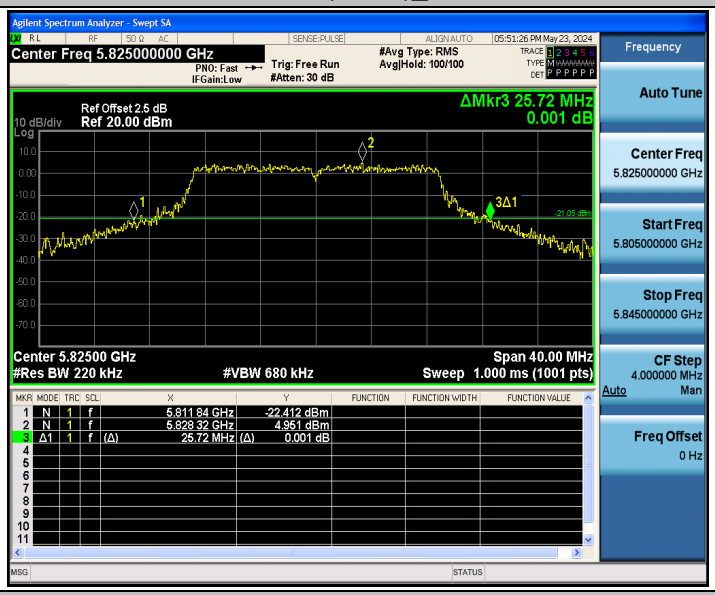

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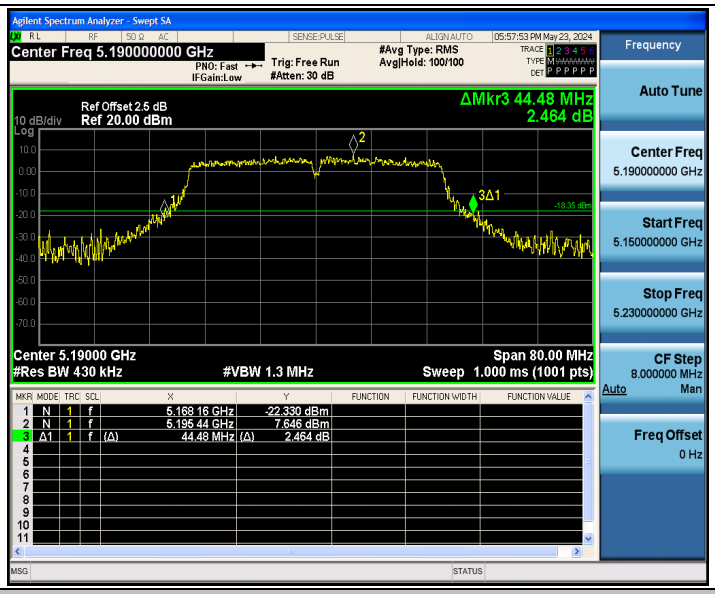

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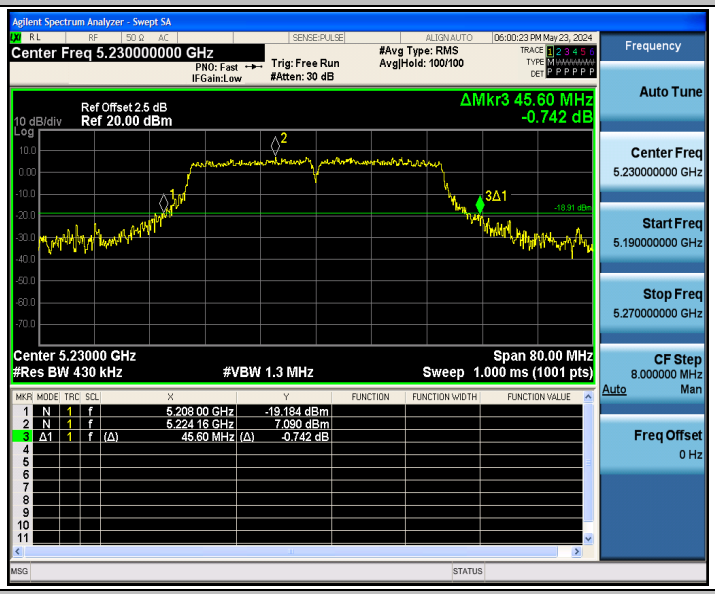

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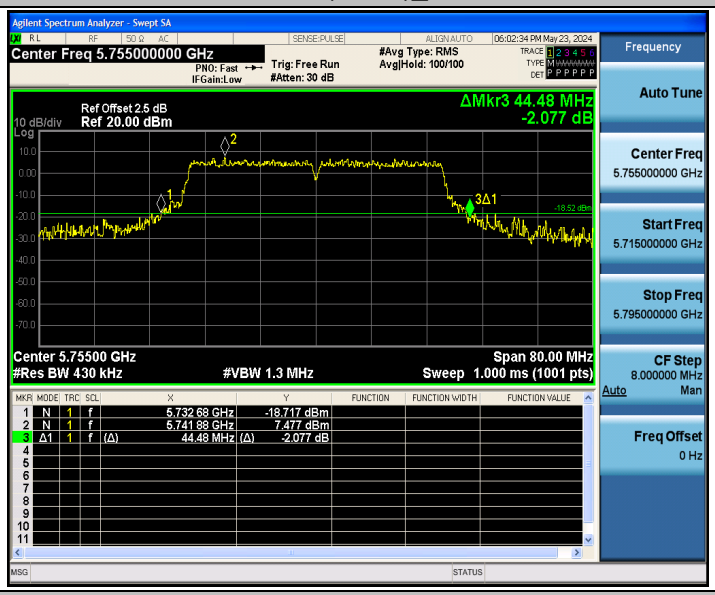

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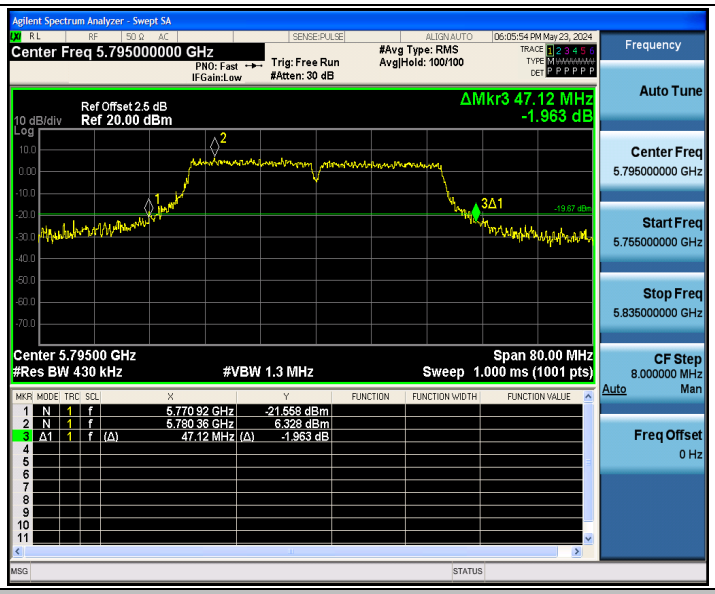

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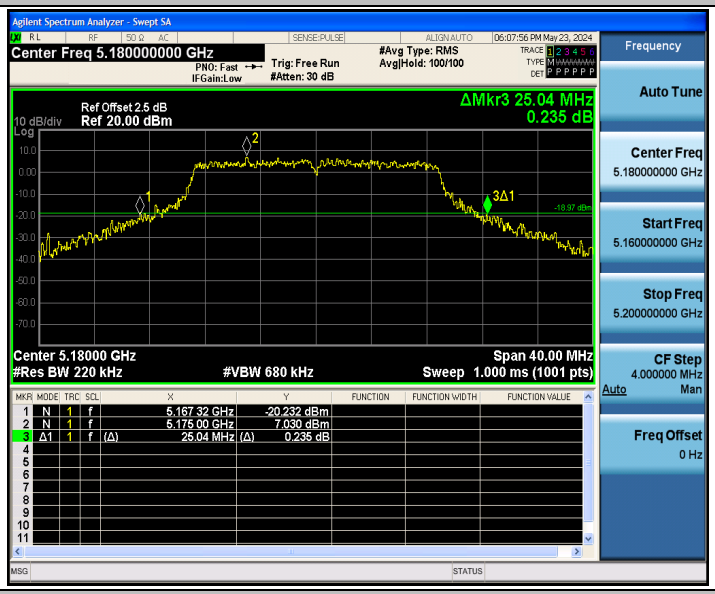

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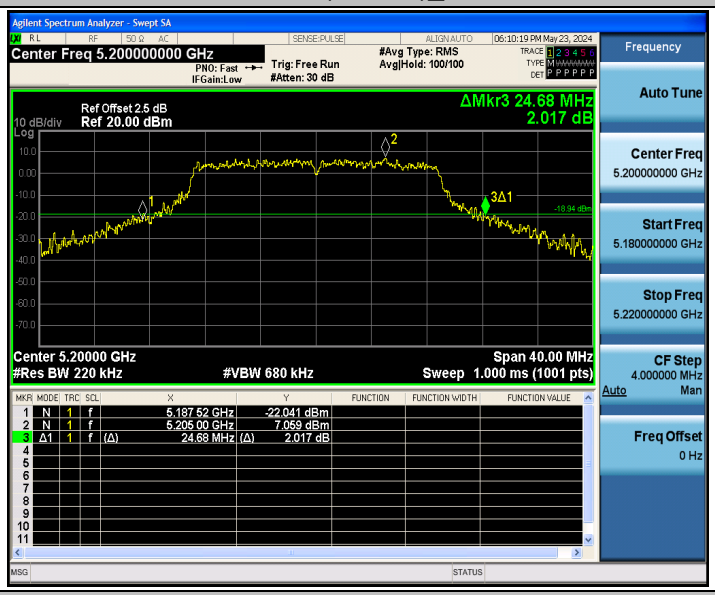

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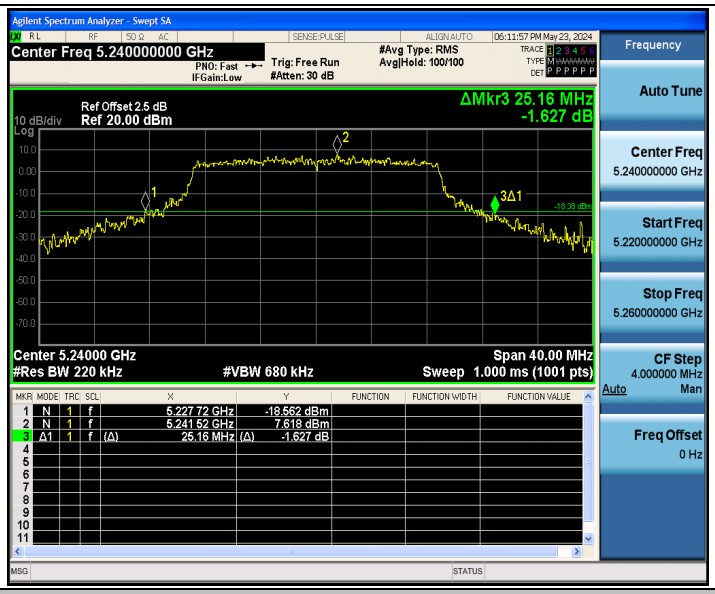

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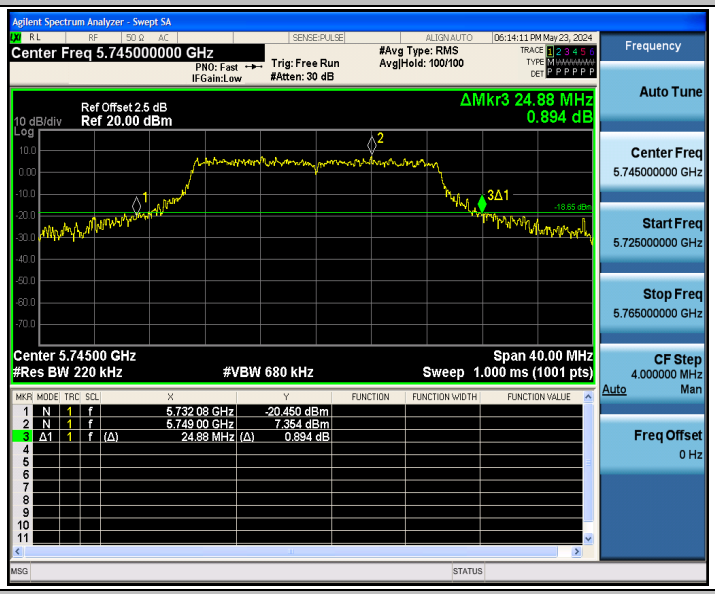

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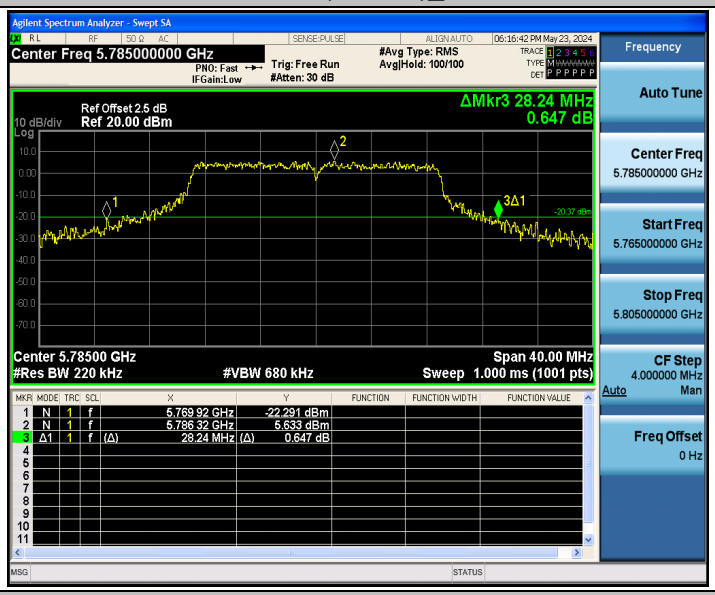

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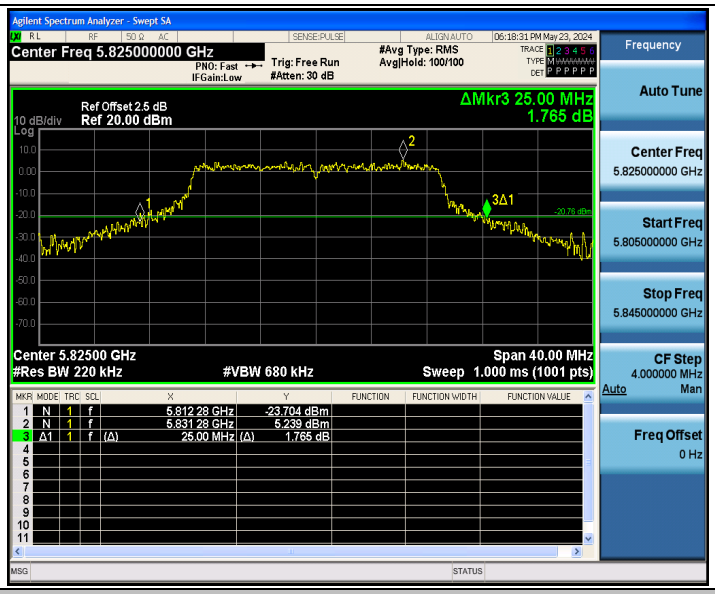

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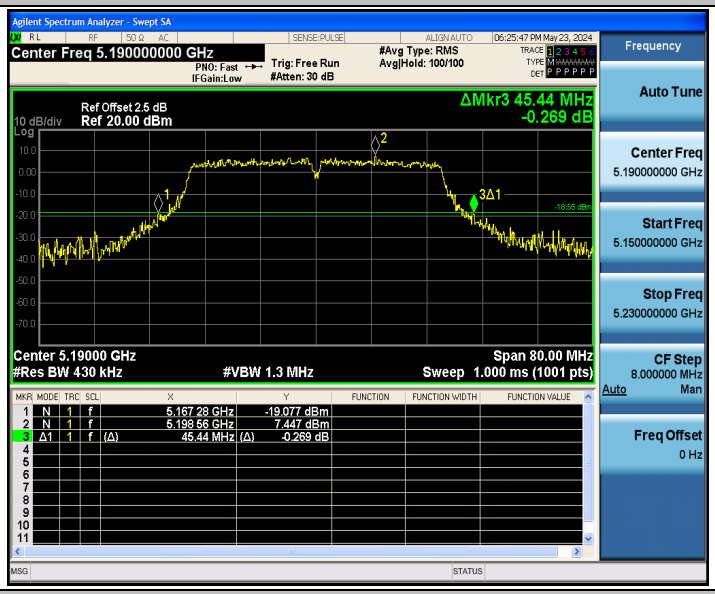

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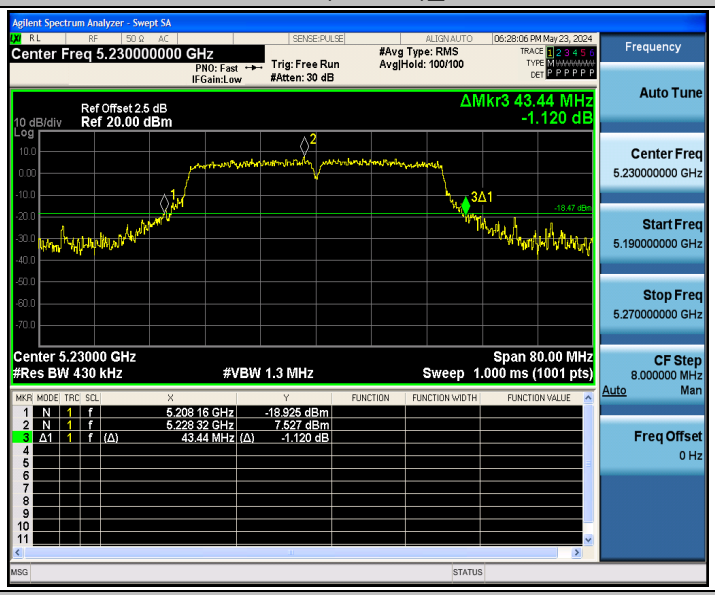
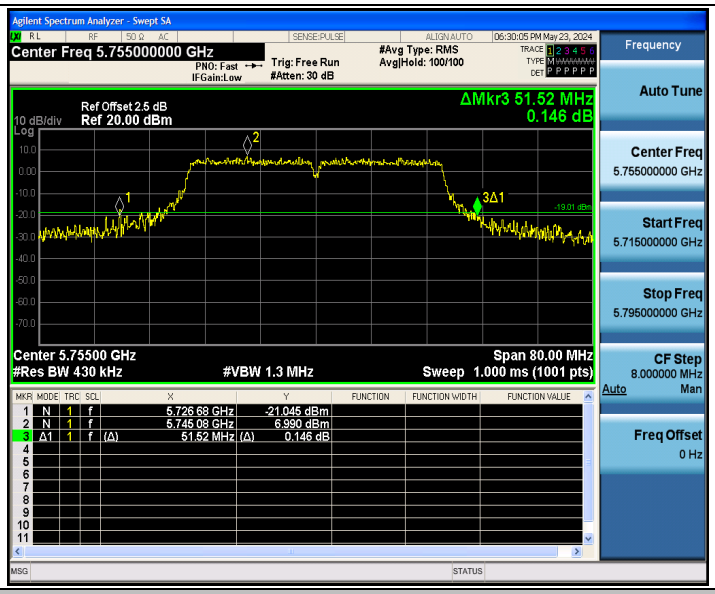
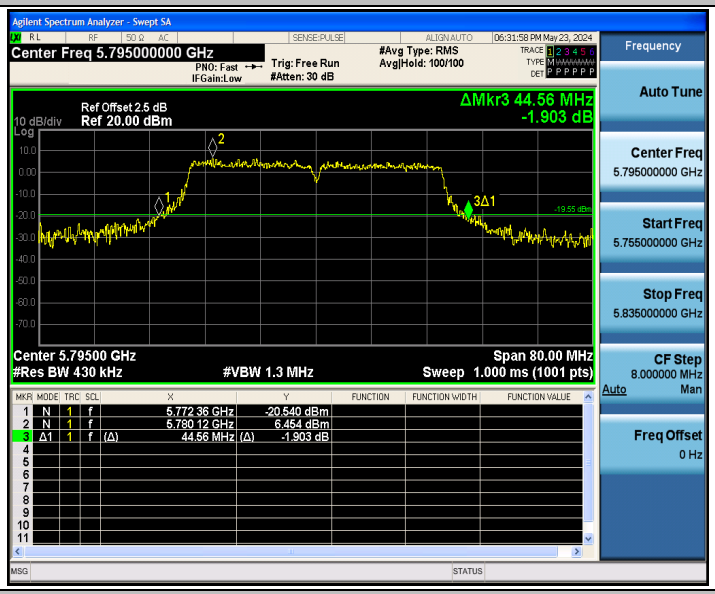


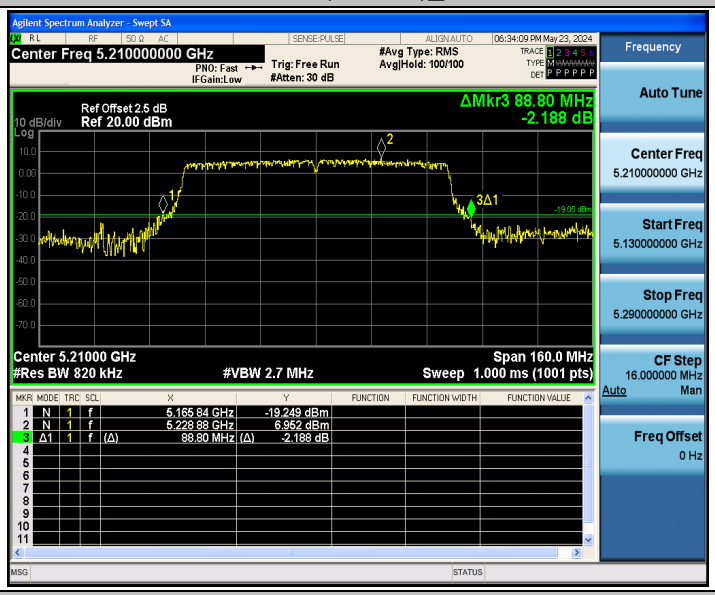
802.11ac(VHT40)_5755



802.11ac(VHT40)_5795



802.11ac(VHT80)_5210



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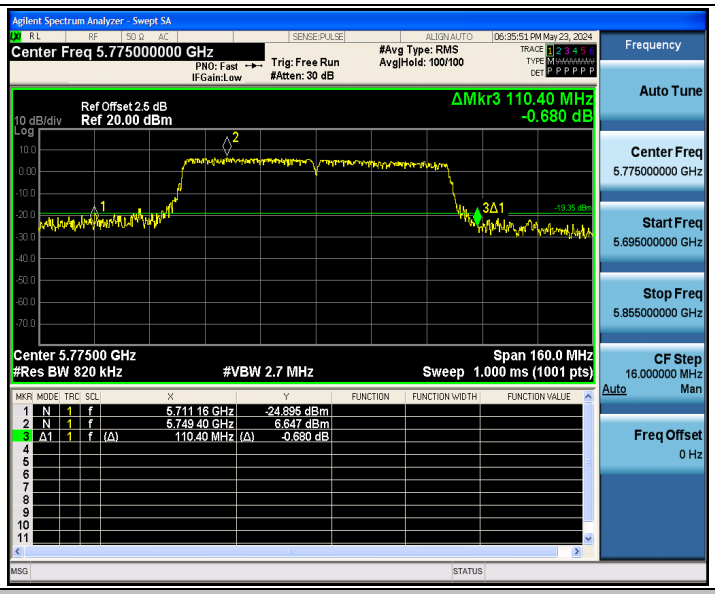
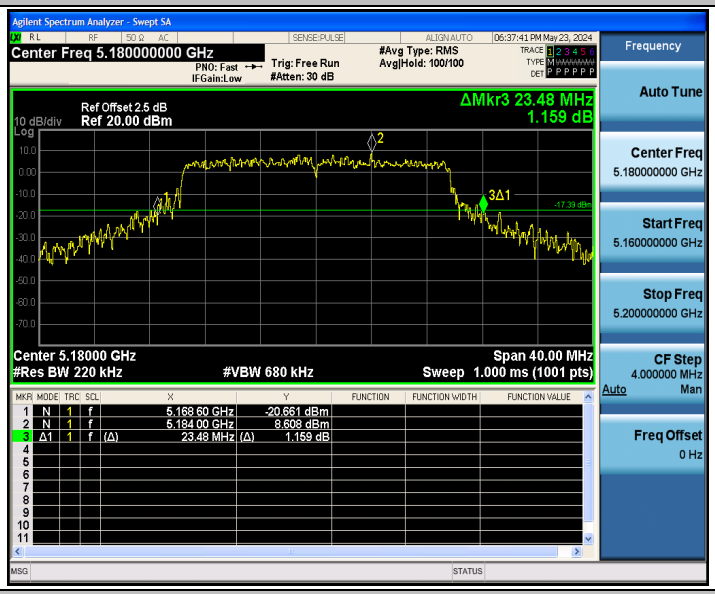


802.11ax(HE20)_5180



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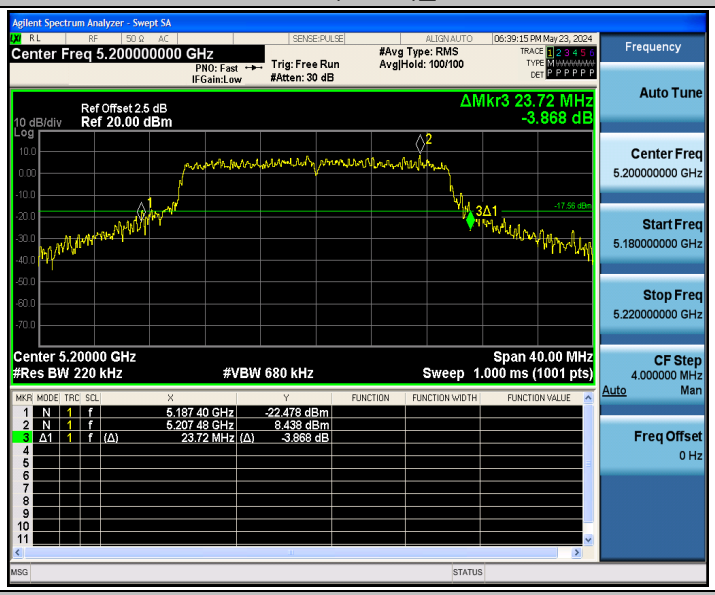

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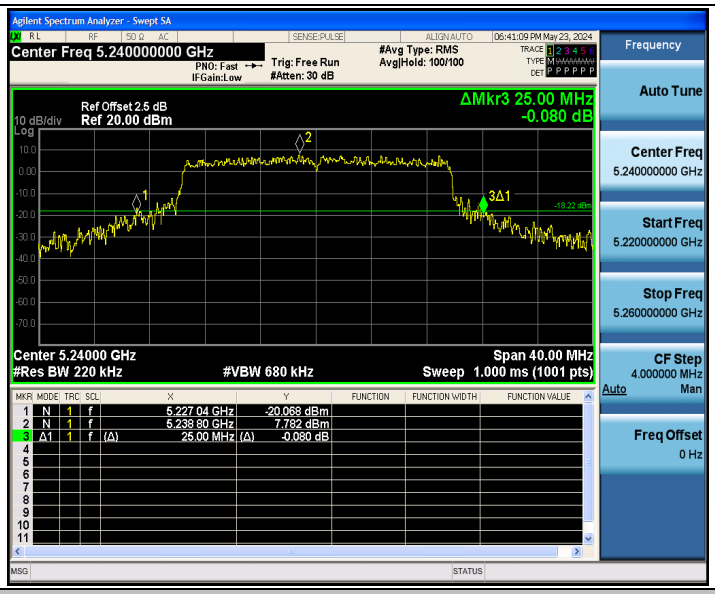

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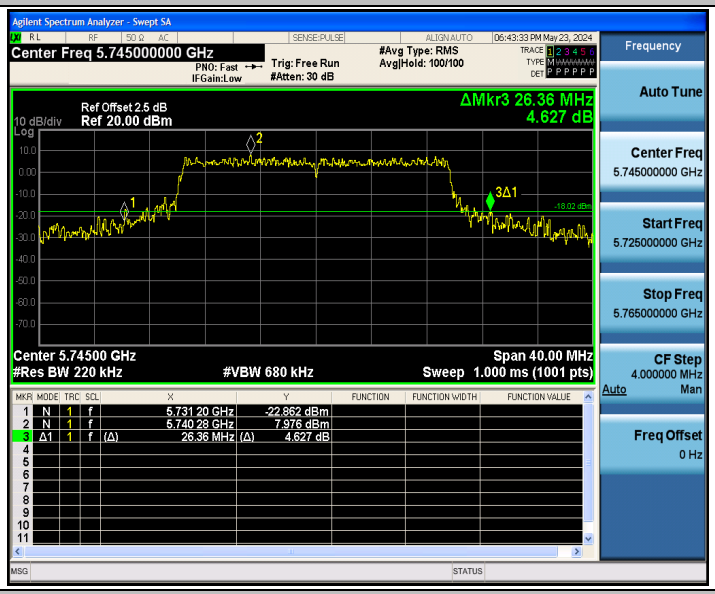

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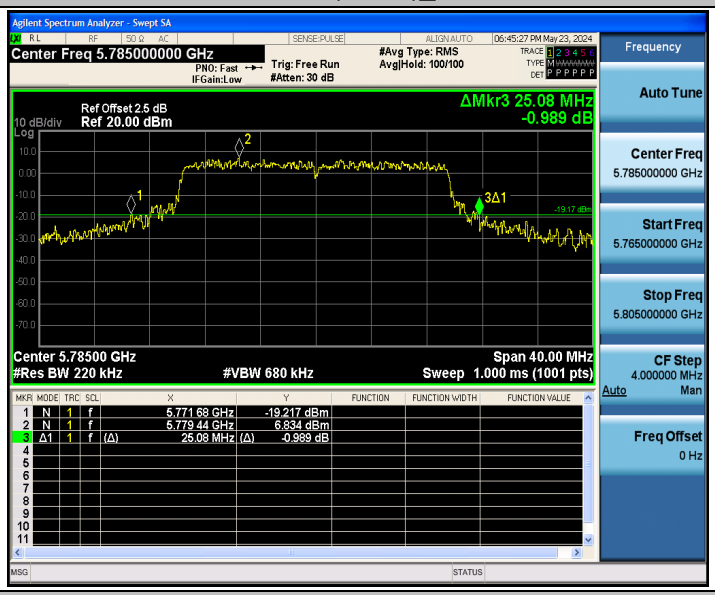

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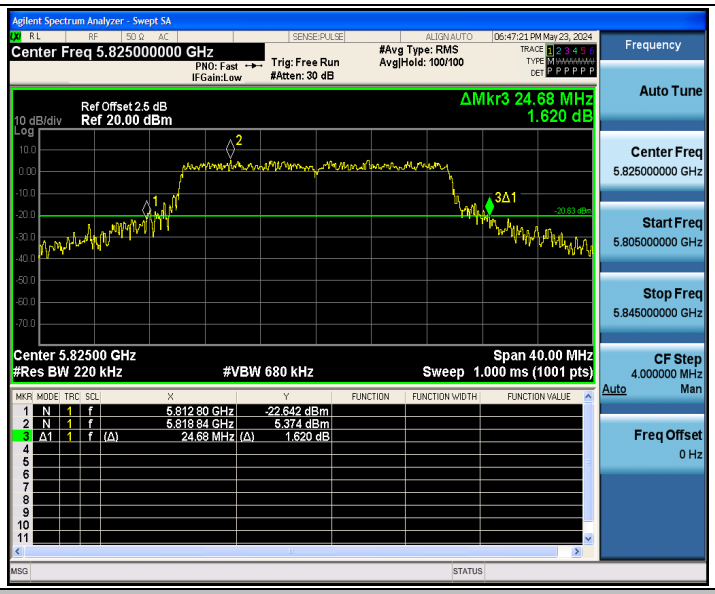

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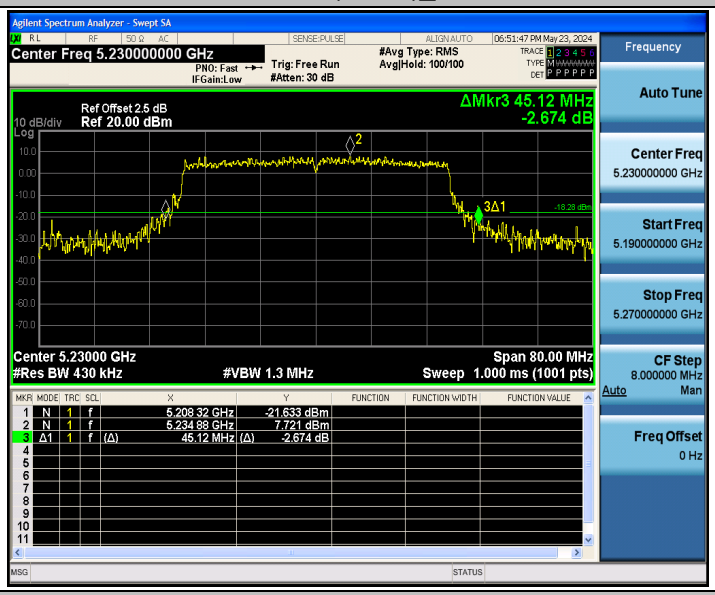
802.11ax(HE40)_5230



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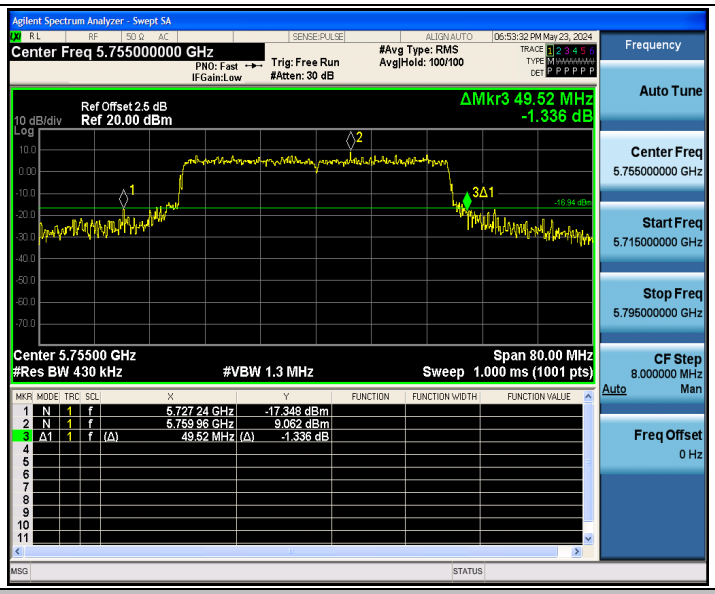

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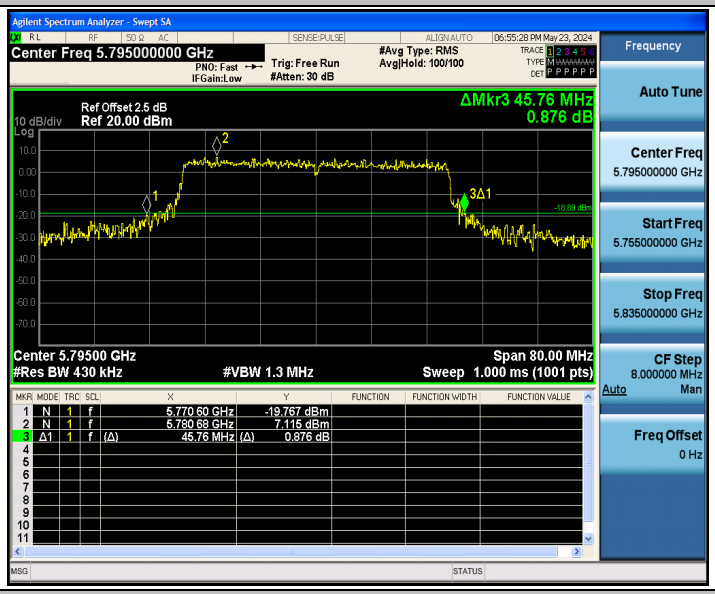

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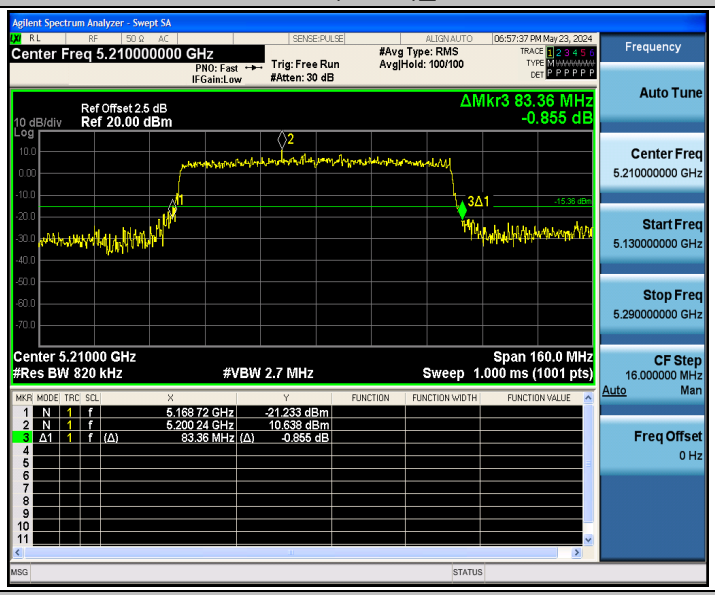

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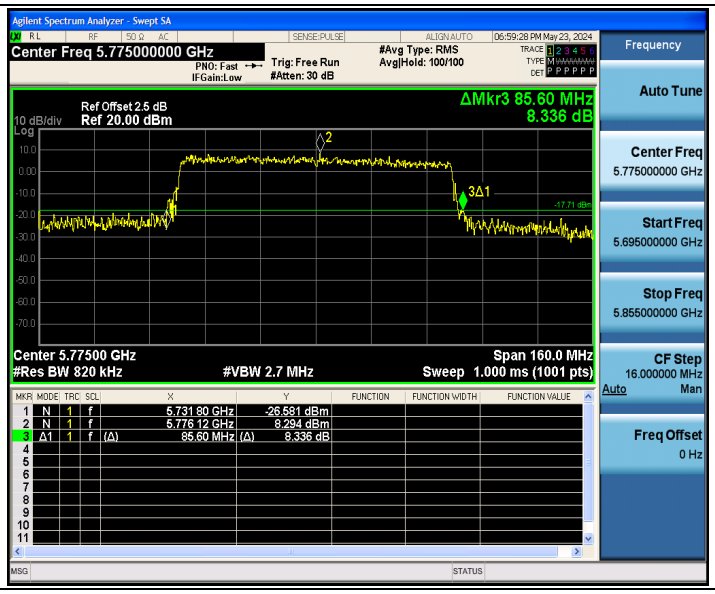

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
06:59:28 PM May 23, 2024
Ref Offset 2.5 dB
10 dB/div
Ref 20.00 dBm
Log
ΔMkr3 85.60 MHz
8.336 dB
-17.71 dBm
Center 5.77500 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 160.0 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.731 80 GHz -26.581 dBm
2 N 1 f 5.776 12 GHz 8.294 dBm
3 Δ1 1 f (Δ) 85.60 MHz (Δ) 8.336 dB
Frequency
Auto Tune
Center Freq
5.775000000 GHz
Start Freq
5.695000000 GHz
Stop Freq
5.855000000 GHz
CF Step
16.000000 MHz
Auto Man
Freq Offset
0 Hz

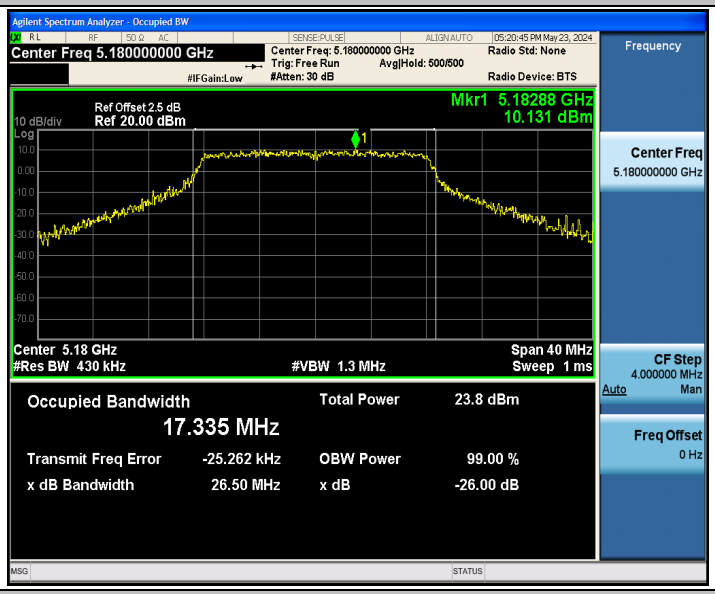
Appendix A2: Occupied channel bandwidth

Test Result

Test Mode	Freq. [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
802.11a	5180	17.335	5171.3072	5188.6422	PASS
	5200	17.256	5191.4203	5208.6763	PASS
	5240	17.362	5231.3728	5248.7348	PASS
	5745	17.750	5736.0254	5753.7754	PASS
	5785	17.533	5776.1026	5793.6356	PASS
	5825	17.517	5816.2411	5833.7581	PASS
802.11n(HT20)	5180	18.614	5170.7250	5189.3390	PASS
	5200	18.628	5190.7561	5209.3841	PASS
	5240	18.606	5230.7331	5249.3391	PASS
	5745	18.992	5735.4843	5754.4763	PASS
	5785	19.088	5775.3283	5794.4163	PASS
	5825	18.877	5815.5231	5834.4001	PASS
802.11n(HT40)	5190	36.972	5171.5455	5208.5175	PASS
	5230	37.198	5211.4848	5248.6828	PASS
	5755	37.526	5736.1728	5773.6988	PASS
	5795	37.585	5776.0299	5813.6149	PASS
802.11ac(VHT20)	5180	18.649	5170.6936	5189.3426	PASS
	5200	18.574	5190.7337	5209.3077	PASS
	5240	18.701	5230.6778	5249.3788	PASS
	5745	18.952	5735.5029	5754.4549	PASS
	5785	18.921	5775.4319	5794.3529	PASS
	5825	18.926	5815.5516	5834.4776	PASS
802.11ac(VHT40)	5190	37.078	5171.5094	5208.5874	PASS
	5230	37.103	5211.5175	5248.6205	PASS
	5755	37.563	5736.1969	5773.7599	PASS
	5795	37.522	5776.0916	5813.6136	PASS
802.11ac(VHT80)	5210	76.414	5171.8856	5248.2996	PASS
	5775	77.023	5736.3287	5813.3517	PASS
802.11ax(HE20)	5180	19.320	5170.3358	5189.6558	PASS
	5200	19.422	5190.3095	5209.7315	PASS
	5240	19.391	5230.3069	5249.6979	PASS
	5745	19.472	5735.3004	5754.7724	PASS
	5785	19.560	5775.1763	5794.7363	PASS
	5825	19.552	5815.2565	5834.8085	PASS
802.11ax(HE40)	5190	38.170	5170.8864	5209.0564	PASS
	5230	38.104	5211.0008	5249.1048	PASS
	5755	38.415	5735.7873	5774.2023	PASS
	5795	38.510	5775.7146	5814.2246	PASS
802.11ax(HE80)	5210	77.641	5171.2472	5248.8882	PASS
	5775	77.989	5735.8015	5813.7905	PASS

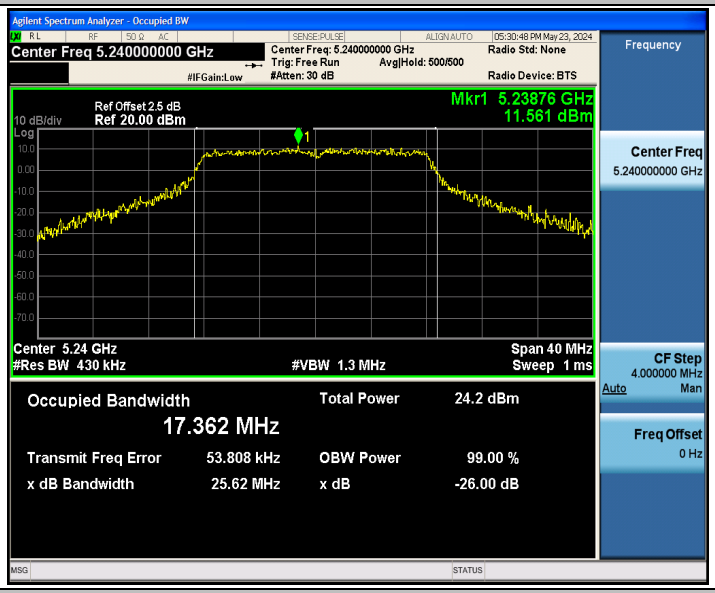
Test Graphs

802.11a_5180

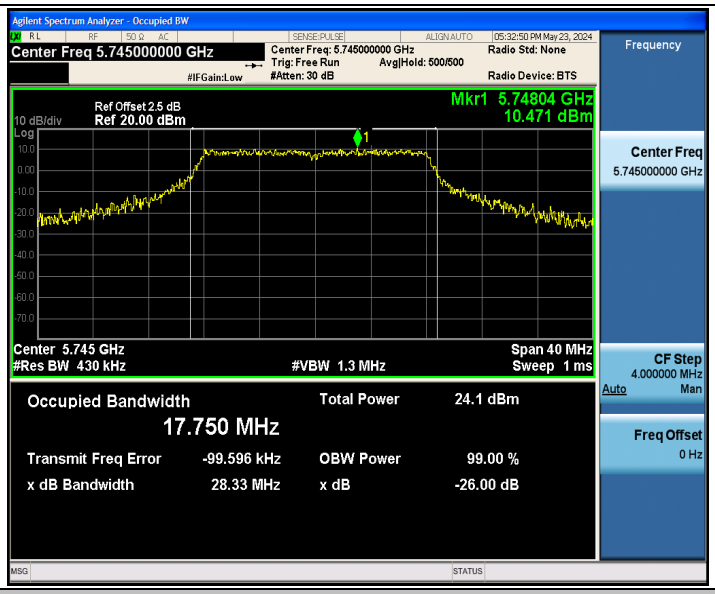


802.11a_5200

802.11a_5240



802.11a_5745



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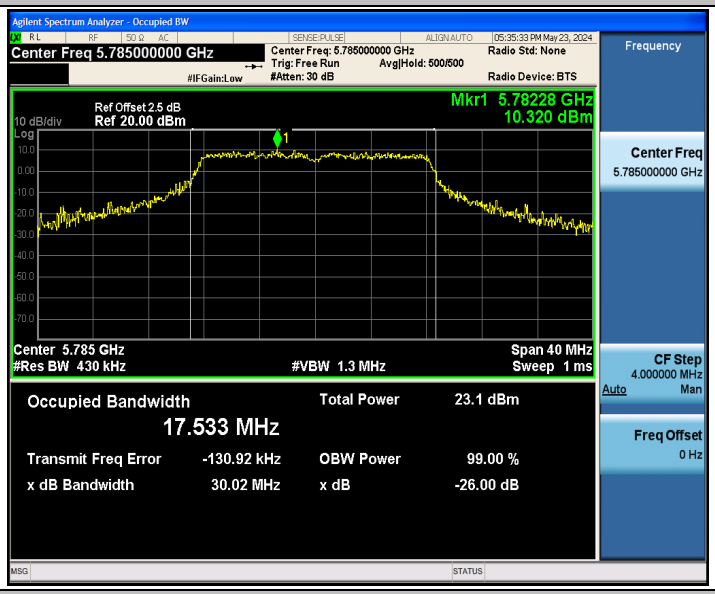
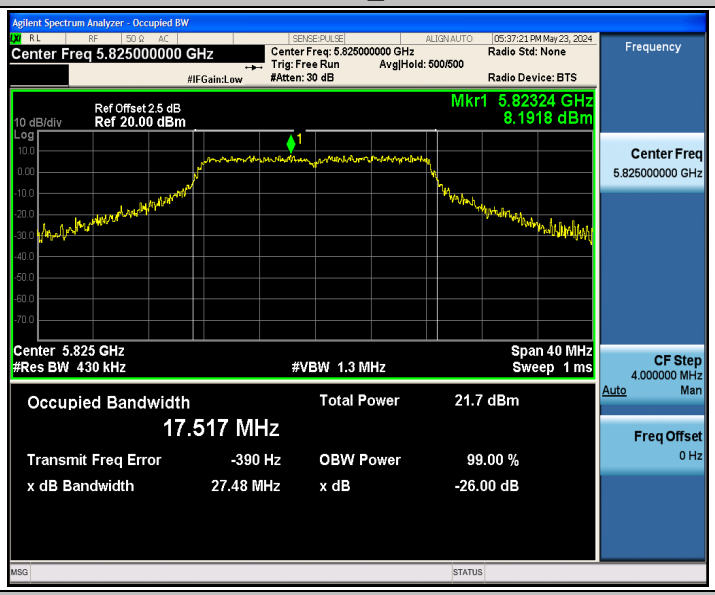
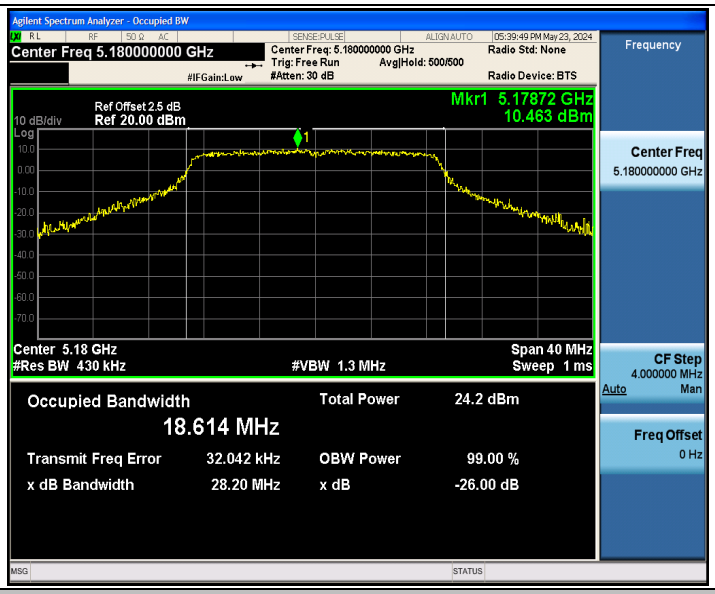


802.11a_5825



802.11n(HT20)_5180



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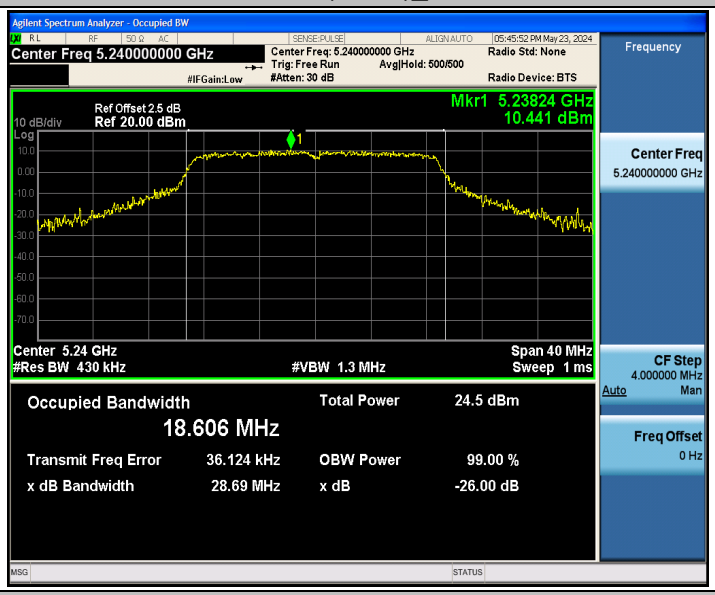

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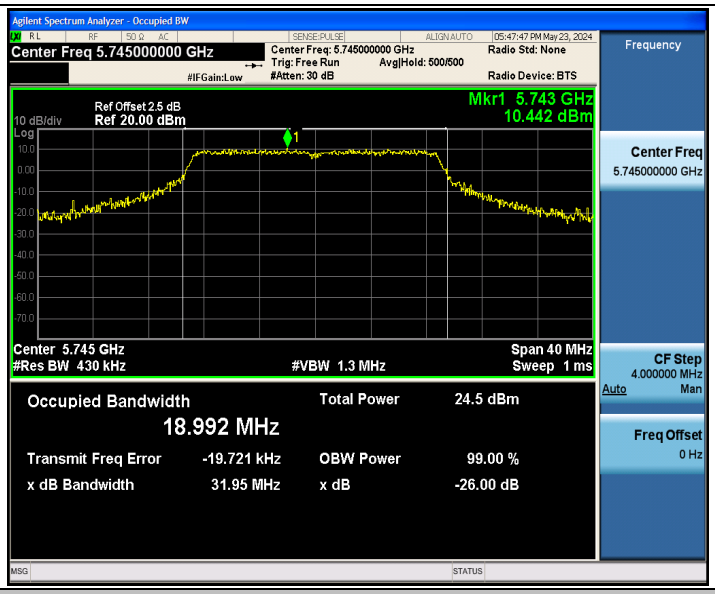

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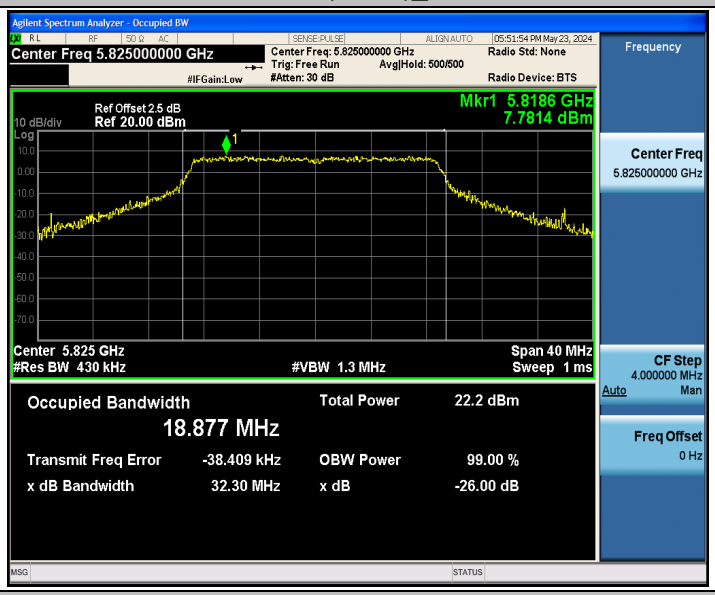

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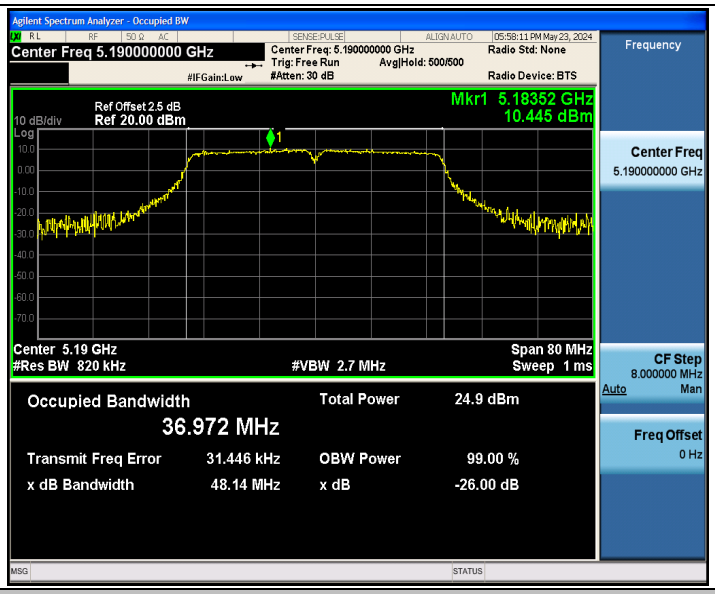

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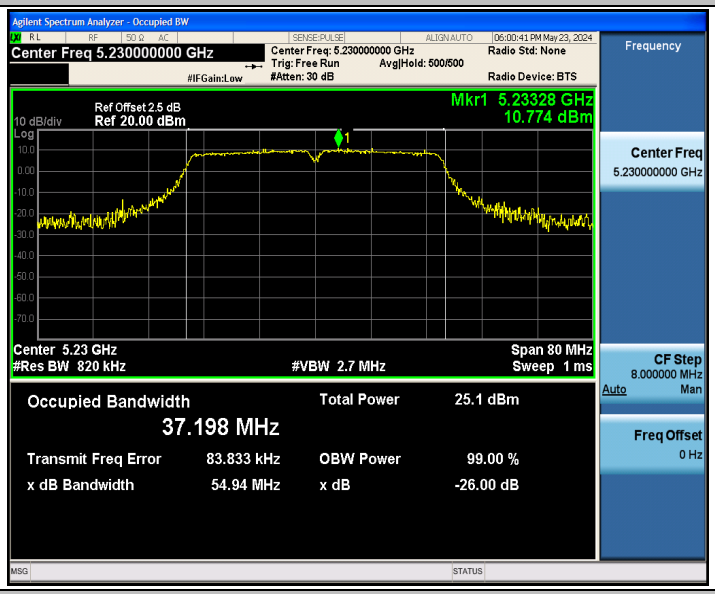

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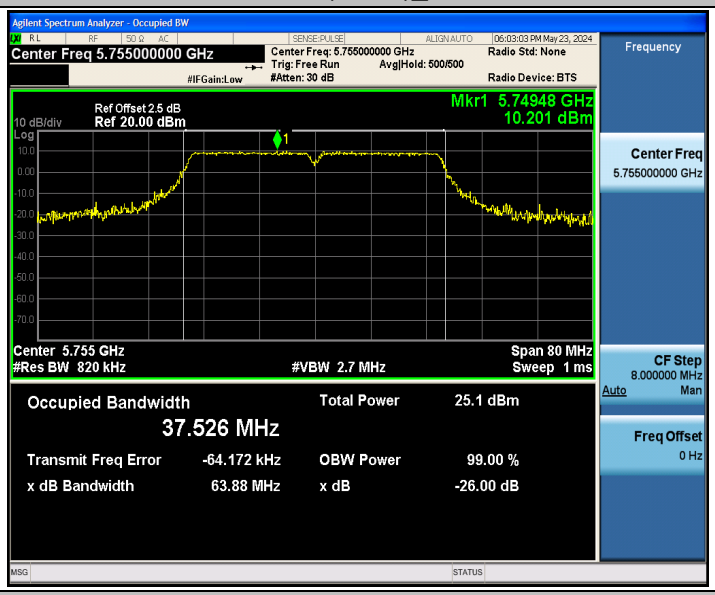

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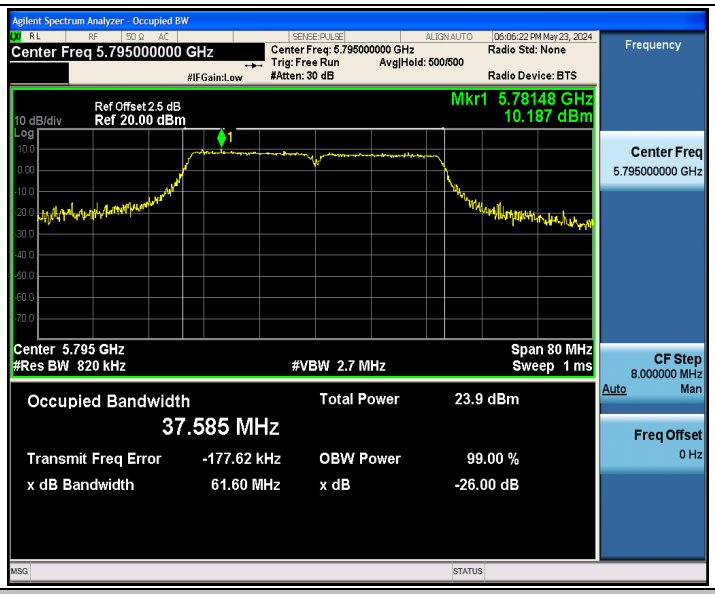

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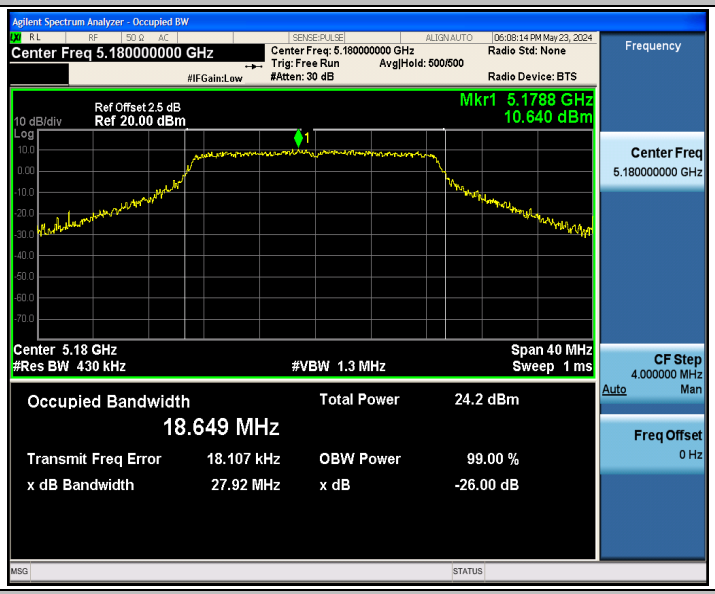

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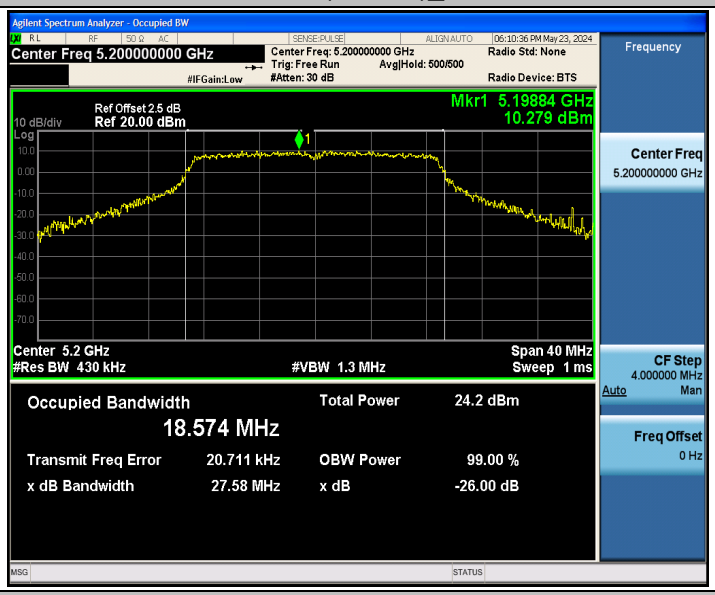

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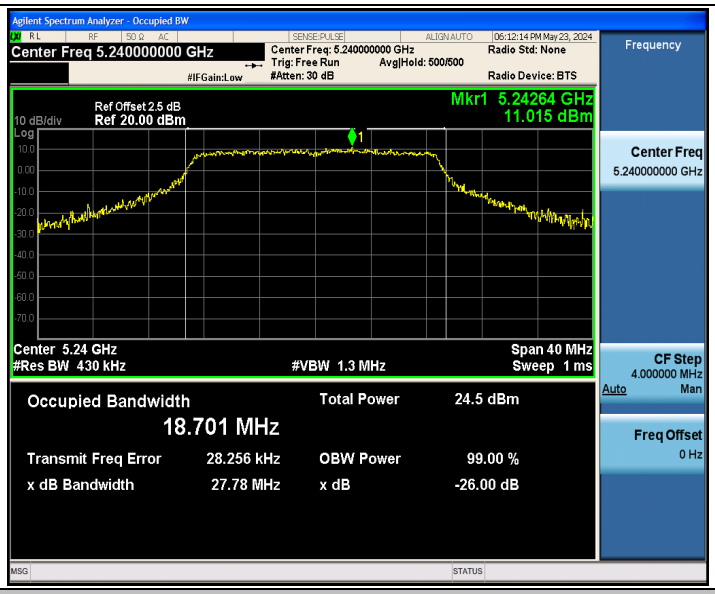

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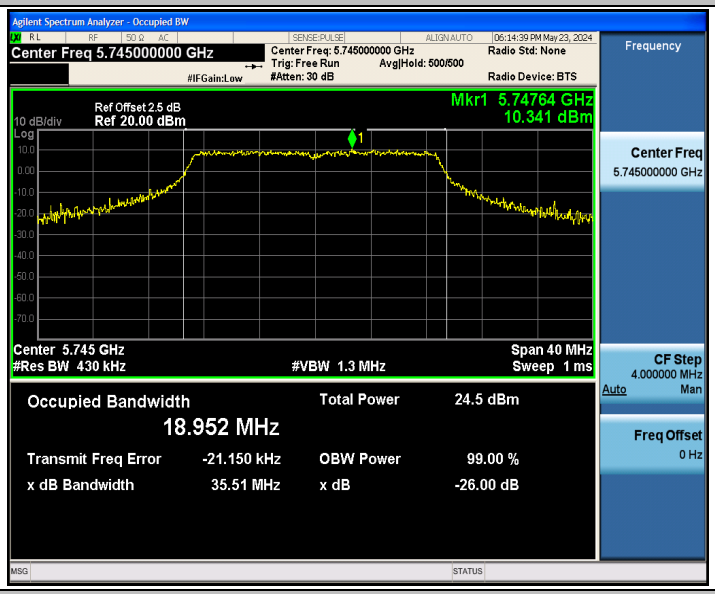

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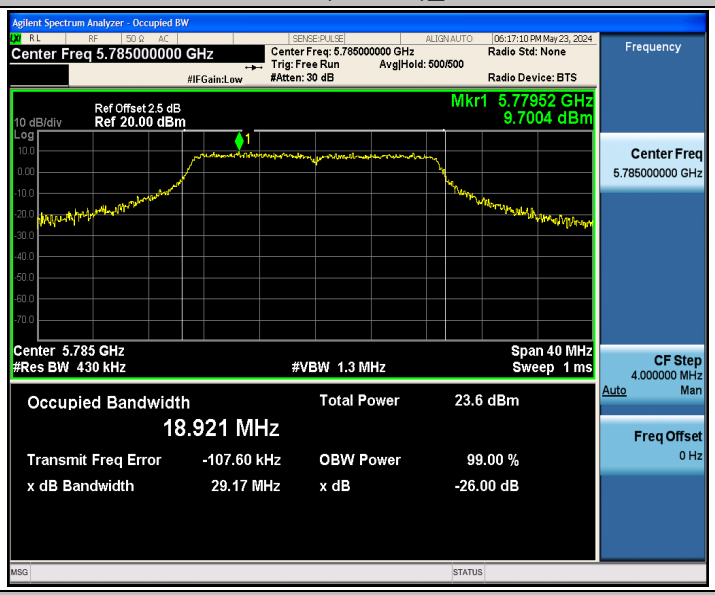

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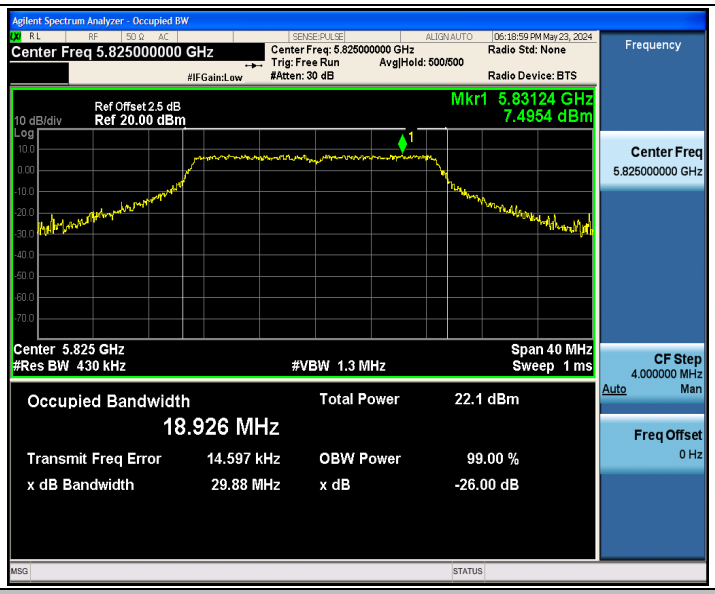

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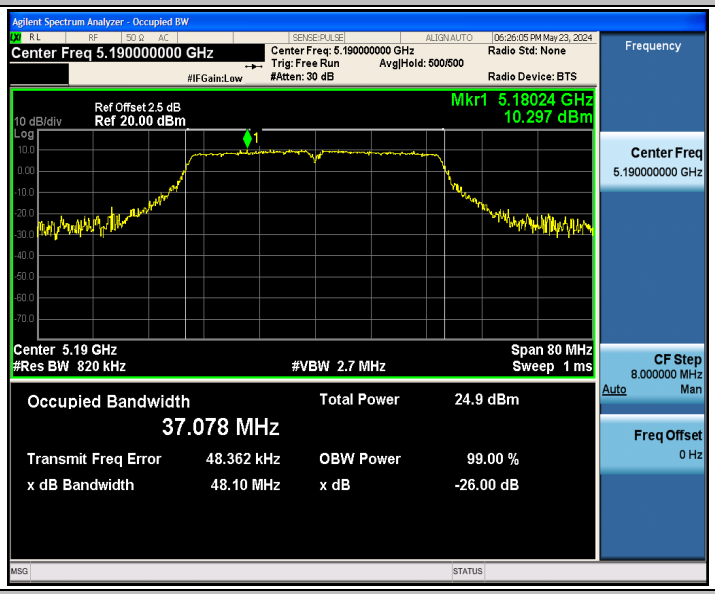

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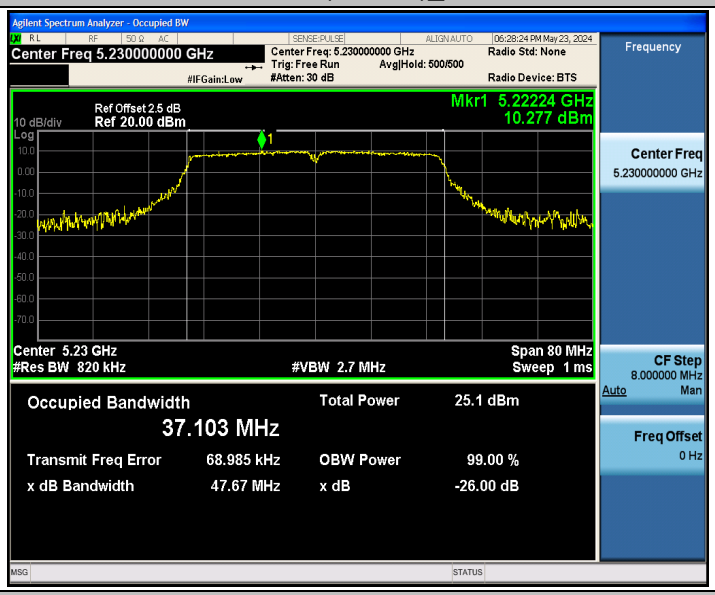

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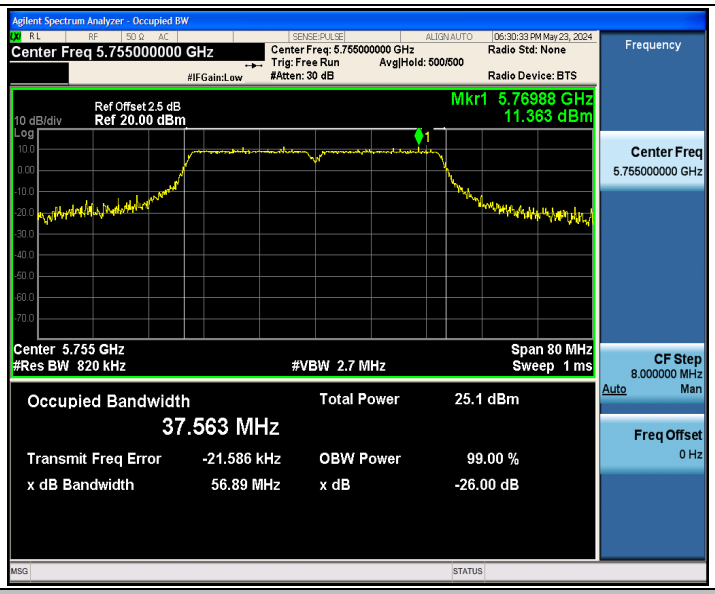

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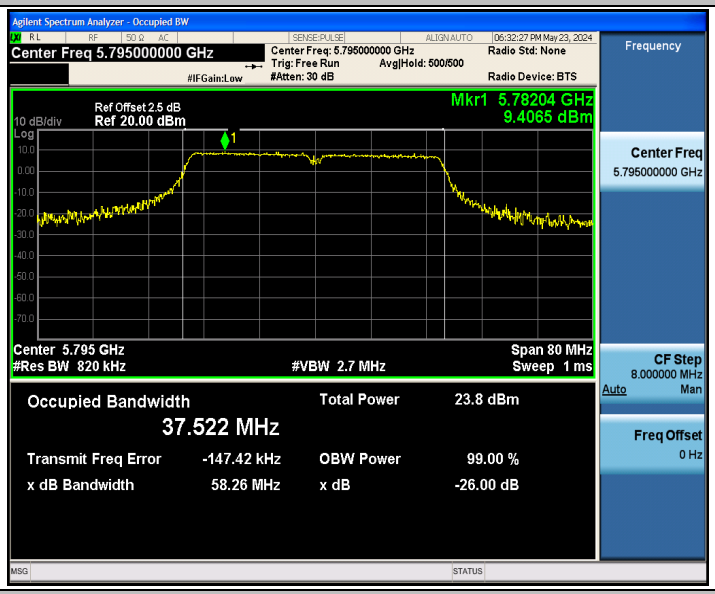

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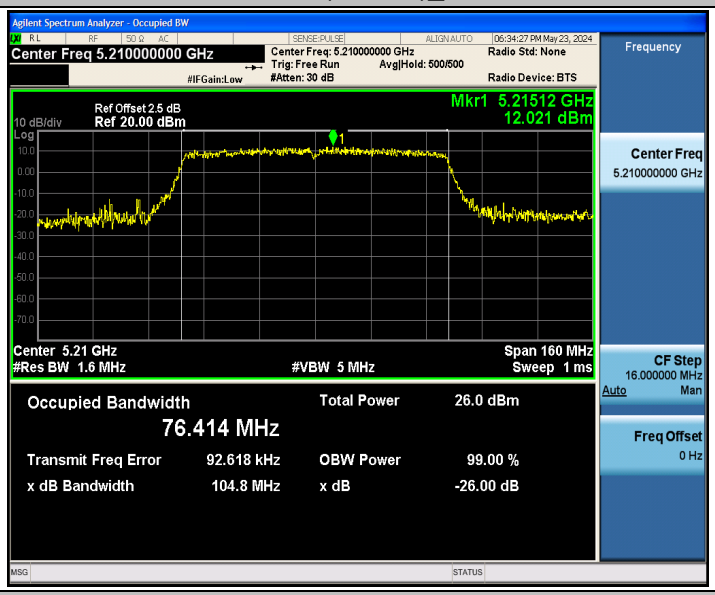

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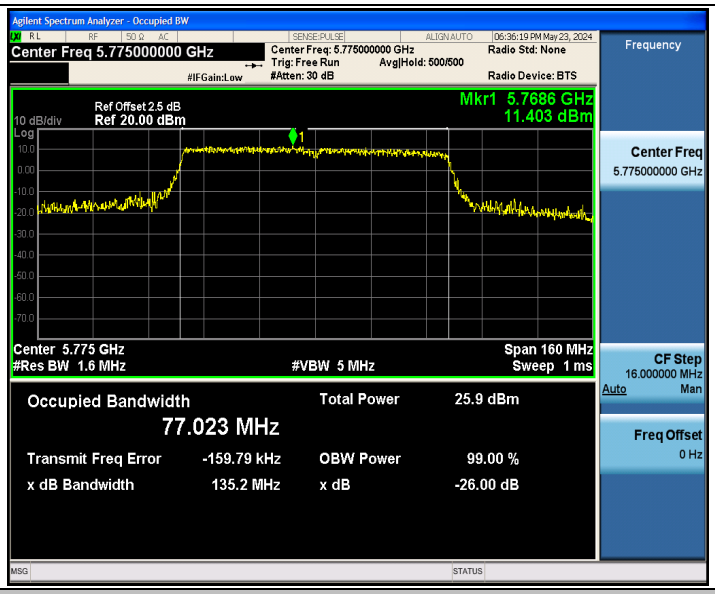

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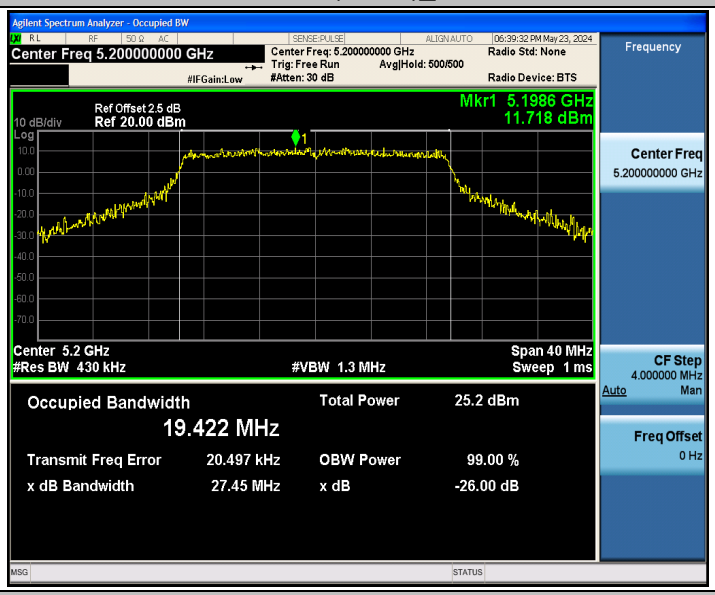

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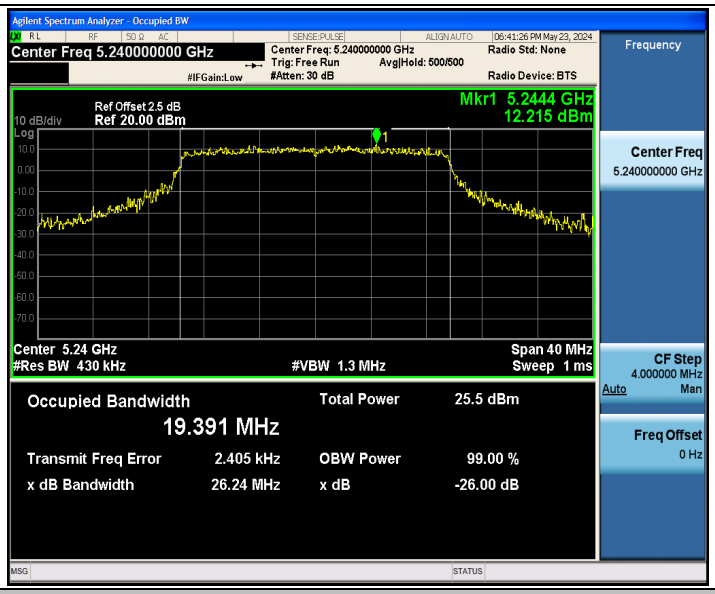

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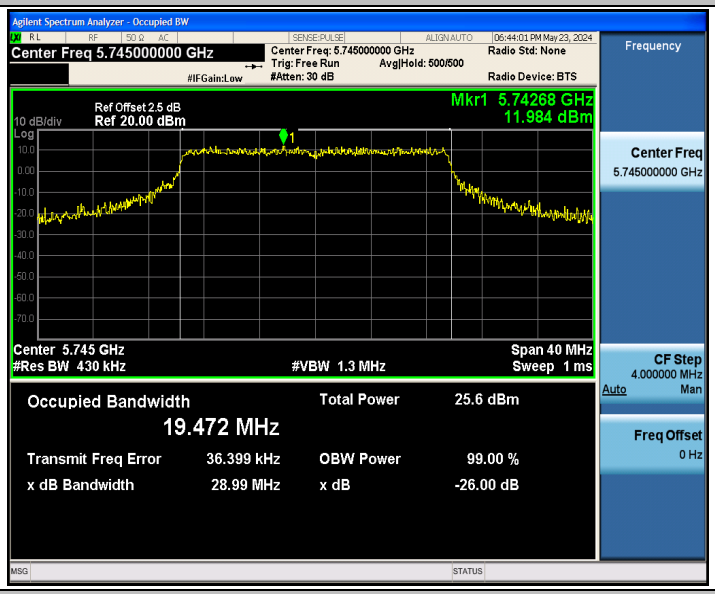

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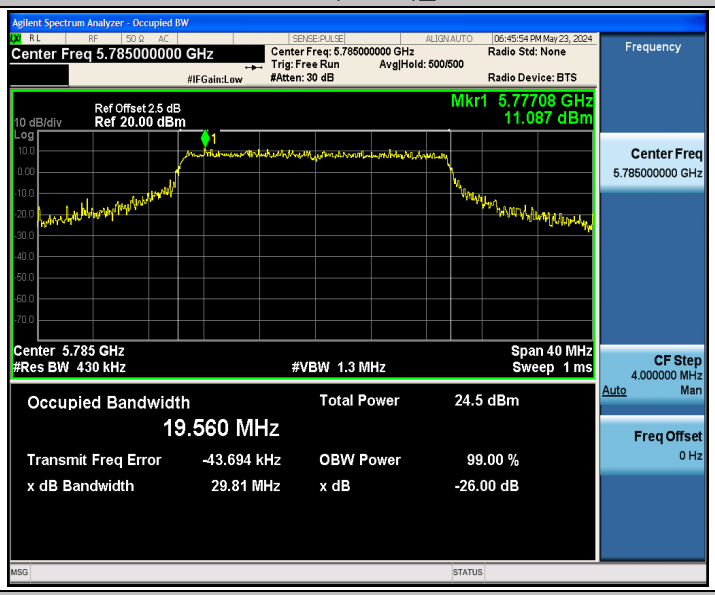

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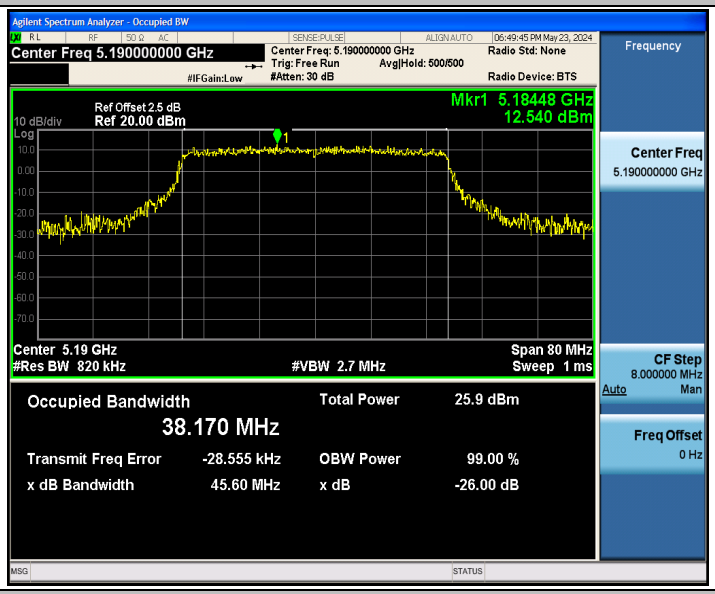

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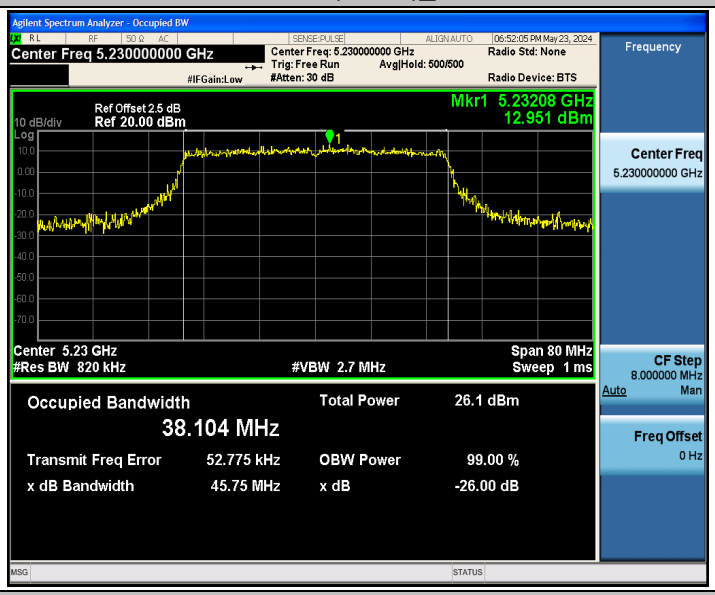

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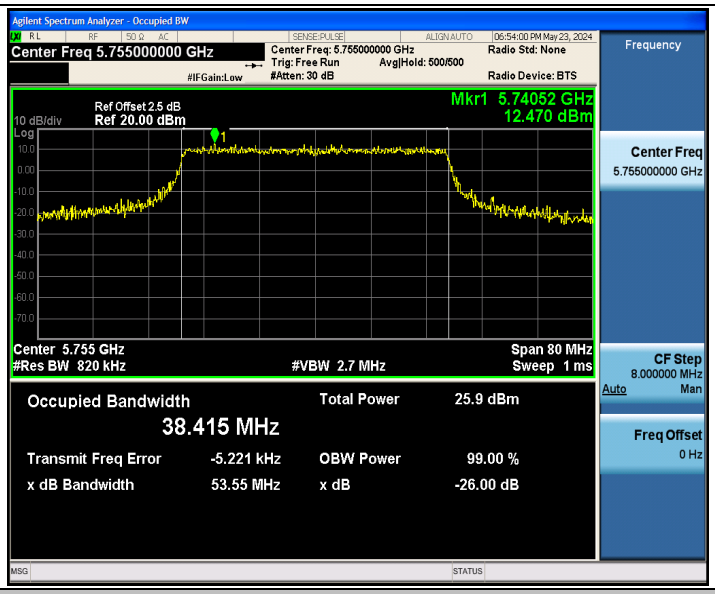

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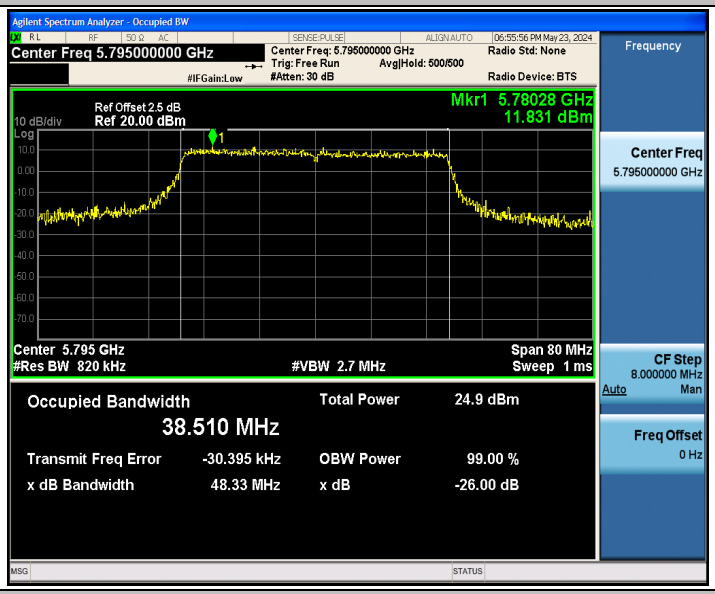

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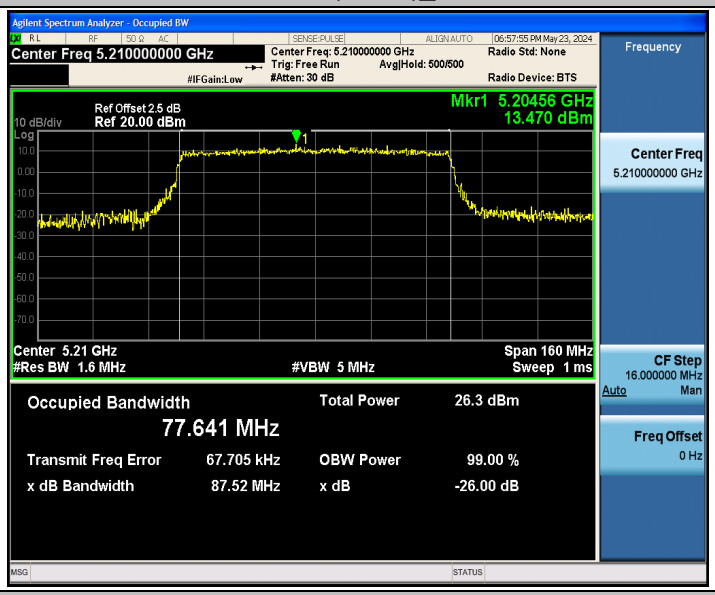

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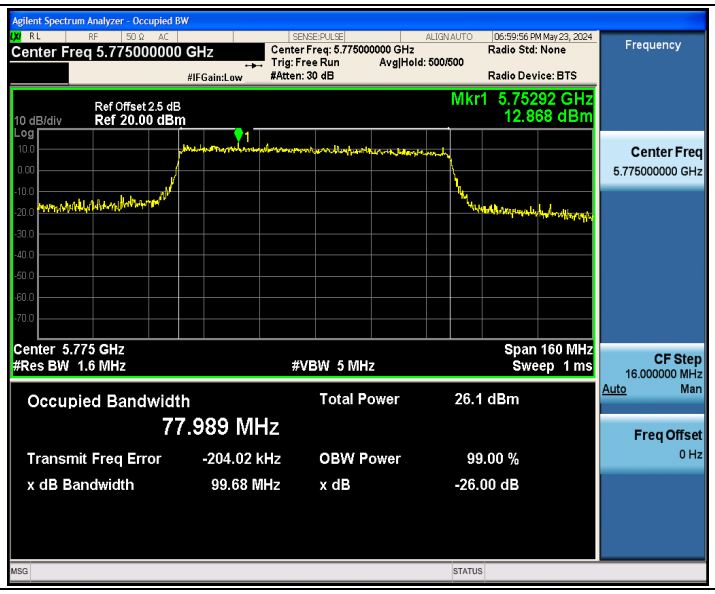

Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.775000000 GHz
Center Freq: 5.775000000 GHz
Trig: Free Run
Avg|Hold: 500/500
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
06:59:56 PM May 23, 2024
Frequency
Ref Offset 2.5 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.75292 GHz
12.868 dBm
Center 5.775 GHz
#Res BW 1.6 MHz
#VBW 5 MHz
Span 160 MHz
Sweep 1 ms
Occupied Bandwidth
77.989 MHz
Total Power 26.1 dBm
Transmit Freq Error -204.02 kHz
OBW Power 99.00 %
x dB Bandwidth 99.68 MHz
x dB -26.00 dB
Center Freq
5.775000000 GHz
CF Step
16.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG
STATUS

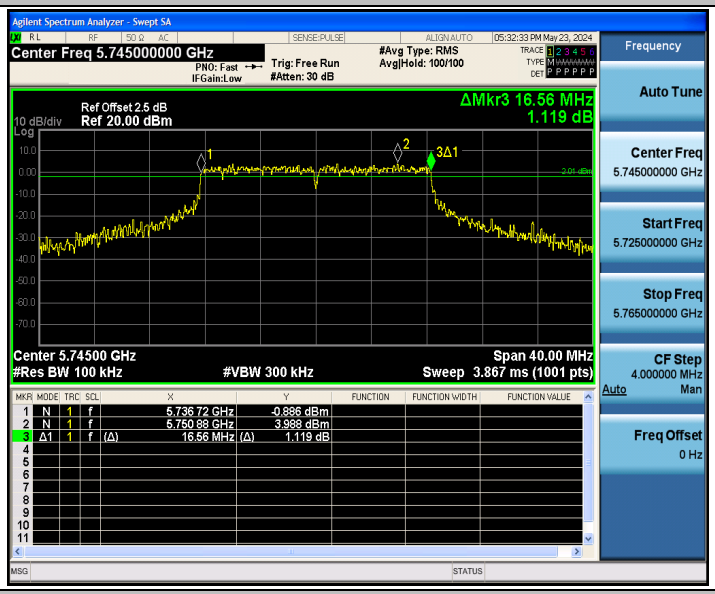
Appendix A3: Min emission bandwidth

Test Result

TestMode	Freq. [MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	5745	16.560	5736.720	5753.280	0.5	PASS
	5785	16.360	5776.840	5793.200	0.5	PASS
	5825	16.280	5816.880	5833.160	0.5	PASS
802.11n(HT20)	5745	17.600	5736.200	5753.800	0.5	PASS
	5785	17.760	5776.120	5793.880	0.5	PASS
	5825	17.720	5816.120	5833.840	0.5	PASS
802.11n(HT40)	5755	36.400	5736.760	5773.160	0.5	PASS
	5795	35.680	5776.840	5812.520	0.5	PASS
802.11ac(VHT20)	5745	17.720	5736.120	5753.840	0.5	PASS
	5785	17.800	5776.080	5793.880	0.5	PASS
	5825	17.520	5816.240	5833.760	0.5	PASS
802.11ac(VHT40)	5755	36.320	5736.840	5773.160	0.5	PASS
	5795	35.680	5776.840	5812.520	0.5	PASS
802.11ac(VHT80)	5775	76.160	5736.760	5812.920	0.5	PASS
802.11ax(HE20)	5745	18.880	5735.600	5754.480	0.5	PASS
	5785	19.040	5775.480	5794.520	0.5	PASS
	5825	19.000	5815.520	5834.520	0.5	PASS
802.11ax(HE40)	5755	37.760	5736.040	5773.800	0.5	PASS
	5795	38.160	5775.880	5814.040	0.5	PASS
802.11ax(HE80)	5775	77.280	5736.280	5813.560	0.5	PASS

Test Graphs

802.11a_5745



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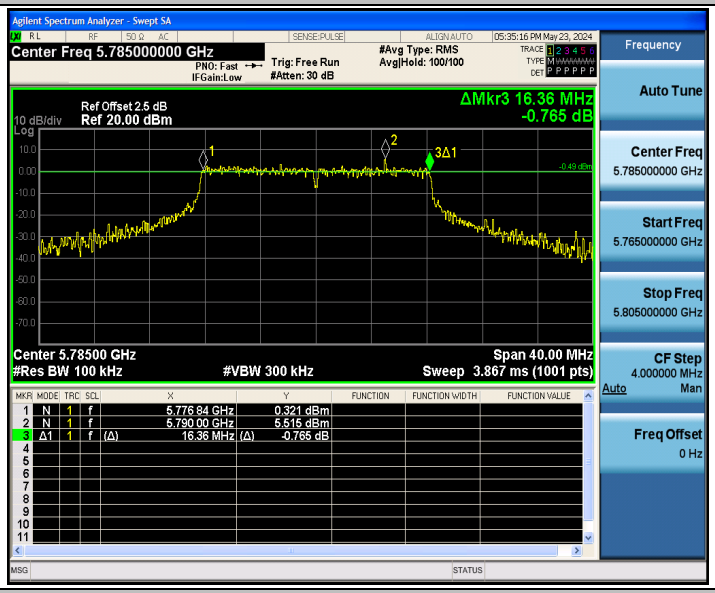

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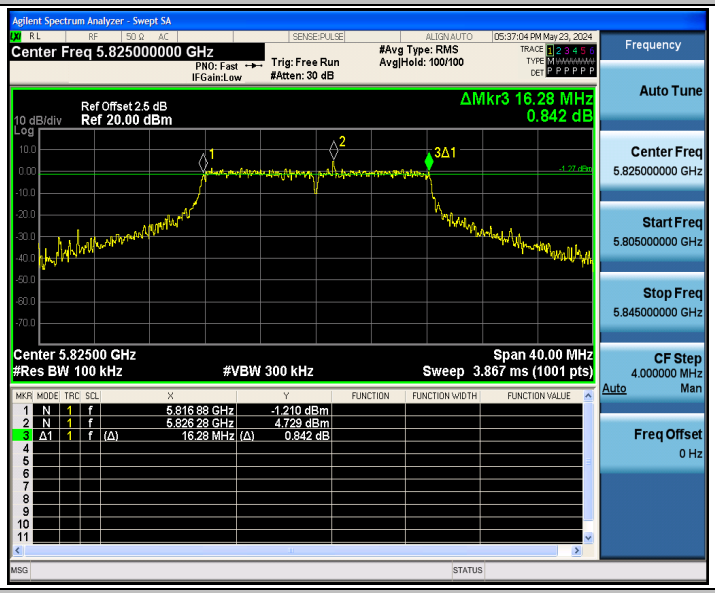
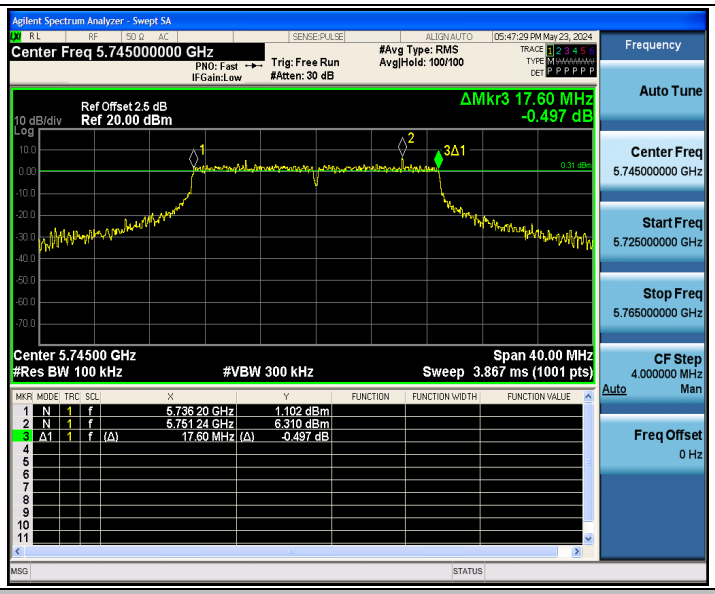
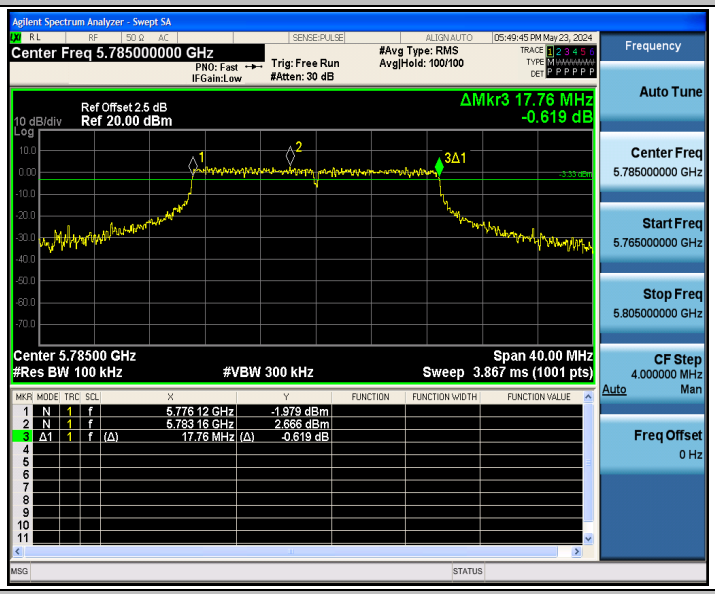


802.11n(HT20)_5745



802.11n(HT20)_5785



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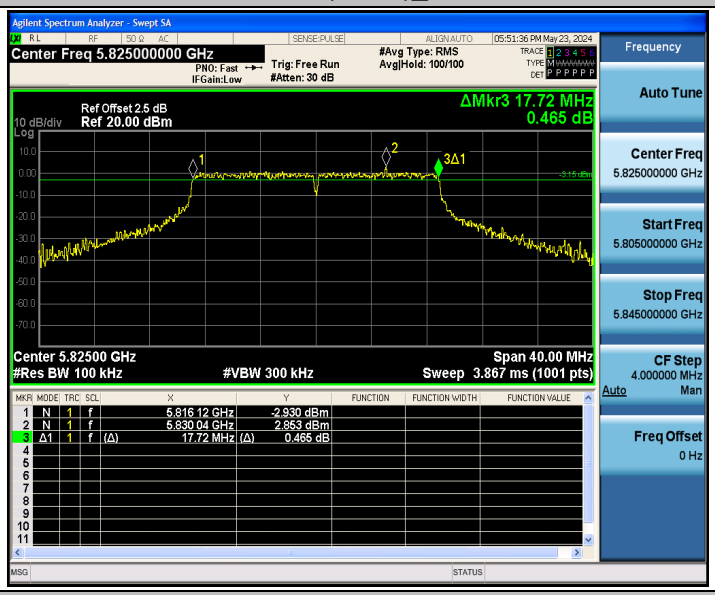

802.11n(HT40)_5755