

AppendixA1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	Rate	26db EBW [MHz]
11AC20SISO	Ant1	5180	MCS0	19.46
11AC20SISO	Ant2	5180	MCS0	19.32
11AC20SISO	Ant1	5200	MCS0	20.01
11AC20SISO	Ant2	5200	MCS0	19.49
11AC20SISO	Ant1	5240	MCS0	19.37
11AC20SISO	Ant2	5240	MCS0	19.31
11AC20SISO	Ant1	5745	MCS0	19.63
11AC20SISO	Ant2	5745	MCS0	19.44
11AC20SISO	Ant1	5785	MCS0	19.46
11AC20SISO	Ant2	5785	MCS0	19.55
11AC20SISO	Ant1	5805	MCS0	21.80
11AC20SISO	Ant2	5805	MCS0	20.98
11AC40SISO	Ant1	5190	MCS0	40.63
11AC40SISO	Ant2	5190	MCS0	41.05
11AC40SISO	Ant1	5230	MCS0	40.79
11AC40SISO	Ant2	5230	MCS0	40.64
11AC40SISO	Ant1	5755	MCS0	40.14
11AC40SISO	Ant2	5755	MCS0	40.44
11AC40SISO	Ant1	5795	MCS0	40.25
11AC40SISO	Ant2	5795	MCS0	44.10
11AC80SISO	Ant1	5210	MCS0	82.64
11AC80SISO	Ant2	5210	MCS0	80.87
11AC80SISO	Ant1	5775	MCS0	80.94
11AC80SISO	Ant2	5775	MCS0	87.58
11AC20MIMO	Ant1	5180	MCS0	19.39
11AC20MIMO	Ant2	5180	MCS0	19.45
11AC20MIMO	Ant1	5200	MCS0	19.50
11AC20MIMO	Ant2	5200	MCS0	19.28
11AC20MIMO	Ant1	5240	MCS0	19.26
11AC20MIMO	Ant2	5240	MCS0	19.23
11AC20MIMO	Ant1	5745	MCS0	19.25
11AC20MIMO	Ant2	5745	MCS0	19.18
11AC20MIMO	Ant1	5785	MCS0	19.42
11AC20MIMO	Ant2	5785	MCS0	19.39
11AC20MIMO	Ant1	5805	MCS0	19.27
11AC20MIMO	Ant2	5805	MCS0	19.39
11AC40MIMO	Ant1	5190	MCS0	40.13
11AC40MIMO	Ant2	5190	MCS0	40.22
11AC40MIMO	Ant1	5230	MCS0	39.97
11AC40MIMO	Ant2	5230	MCS0	40.49

11AC40MIMO	Ant1	5755	MCS0	40.53
11AC40MIMO	Ant2	5755	MCS0	41.27
11AC40MIMO	Ant1	5795	MCS0	41.26
11AC40MIMO	Ant2	5795	MCS0	40.26
11AC80MIMO	Ant1	5210	MCS0	81.06
11AC80MIMO	Ant2	5210	MCS0	80.81
11AC80MIMO	Ant1	5775	MCS0	80.93
11AC80MIMO	Ant2	5775	MCS0	79.99

Figure 10 displays four screenshots of a Spectrum Analyzer 1 interface, showing the results of a spectral analysis for four different antennas: 11AC20SISO-Ant1-5180, 11AC20SISO-Ant2-5180, 11AC20SISO-Ant1-5200, and 11AC20SISO-Ant2-5200. Each screenshot shows the spectrum plot, the center frequency, the span, the resolution bandwidth (RBW), and the video bandwidth (VBW). The plots show a signal at the center frequency, with the power level indicated by the dBm value. The interface also displays various settings such as Input Z, Attenuation, and Frequency Offset.

The four screenshots are arranged in a 2x2 grid, showing the results of a spectral analysis for four different antennas: 11AC20SISO-Ant1-5180, 11AC20SISO-Ant2-5180, 11AC20SISO-Ant1-5200, and 11AC20SISO-Ant2-5200. Each screenshot displays the spectrum plot, the center frequency, the span, the resolution bandwidth (RBW), and the video bandwidth (VBW). The plots show a signal at the center frequency, with the power level indicated by the dBm value. The interface also displays various settings such as Input Z, Attenuation, and Frequency Offset.

11AC20SISO-Ant1-5180

Center Frequency: 5.18000000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
#Video BW: 680.0 kHz
Sweep: 1.00 ms (1001 pts)

Measure Trace: Trace 1

Occupied Bandwidth: 17.605 MHz
Total Power: 21.5 dBm
Transmit Freq Error: -8.892 kHz
x dB Bandwidth: 19.46 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

11AC20SISO-Ant2-5180

Center Frequency: 5.18000000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
#Video BW: 680.0 kHz
Sweep: 1.00 ms (1001 pts)

Measure Trace: Trace 1

Occupied Bandwidth: 17.577 MHz
Total Power: 20.2 dBm
Transmit Freq Error: -23.030 kHz
x dB Bandwidth: 19.32 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

11AC20SISO-Ant1-5200

Center Frequency: 5.20000000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
#Video BW: 680.0 kHz
Sweep: 1.00 ms (1001 pts)

Measure Trace: Trace 1

Occupied Bandwidth: 17.624 MHz
Total Power: 21.8 dBm
Transmit Freq Error: 304 Hz
x dB Bandwidth: 20.01 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

11AC20SISO-Ant2-5200

Center Frequency: 5.20000000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
#Video BW: 680.0 kHz
Sweep: 1.00 ms (1001 pts)

Measure Trace: Trace 1

Occupied Bandwidth: 17.572 MHz
Total Power: 20.6 dBm
Transmit Freq Error: -10.156 kHz
x dB Bandwidth: 19.49 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

11AC20SISO-Ant1-5240

Center Frequency: 5.24000000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
#Video BW: 680.0 kHz
Sweep: 1.00 ms (1001 pts)

Measure Trace: Trace 1

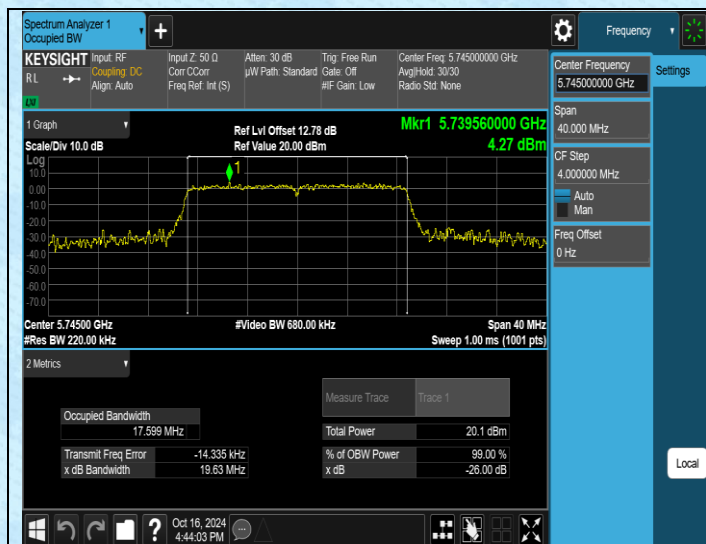
Occupied Bandwidth: 17.585 MHz
Total Power: 21.9 dBm
Transmit Freq Error: -24.776 kHz
x dB Bandwidth: 19.37 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB

11AC20SISO-Ant2-5240

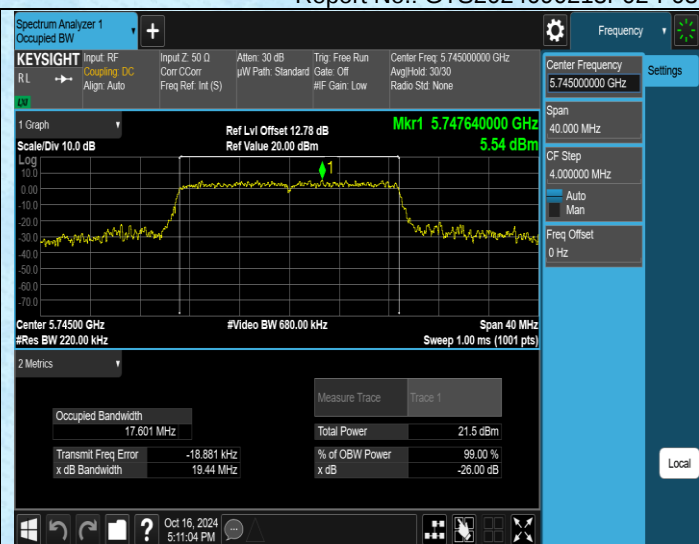
Center Frequency: 5.24000000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
#Video BW: 680.0 kHz
Sweep: 1.00 ms (1001 pts)

Measure Trace: Trace 1

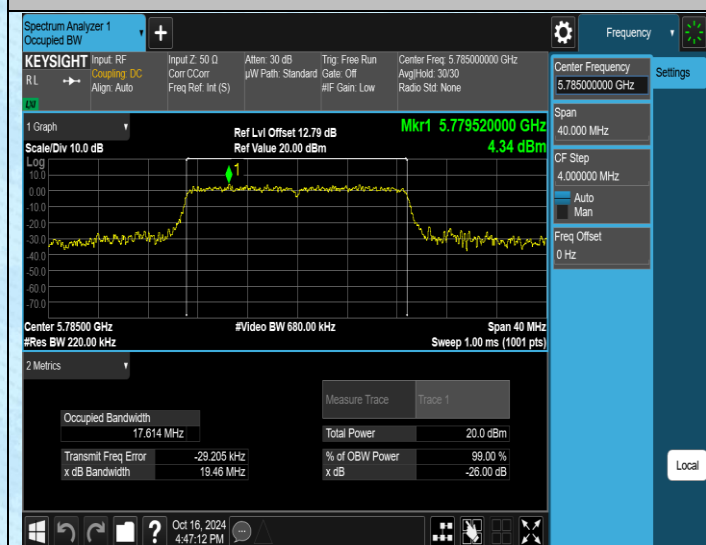
Occupied Bandwidth: 17.576 MHz
Total Power: 20.6 dBm
Transmit Freq Error: -22.960 kHz
x dB Bandwidth: 19.31 MHz
% of OBW Power: 99.00 %
x dB: -26.00 dB



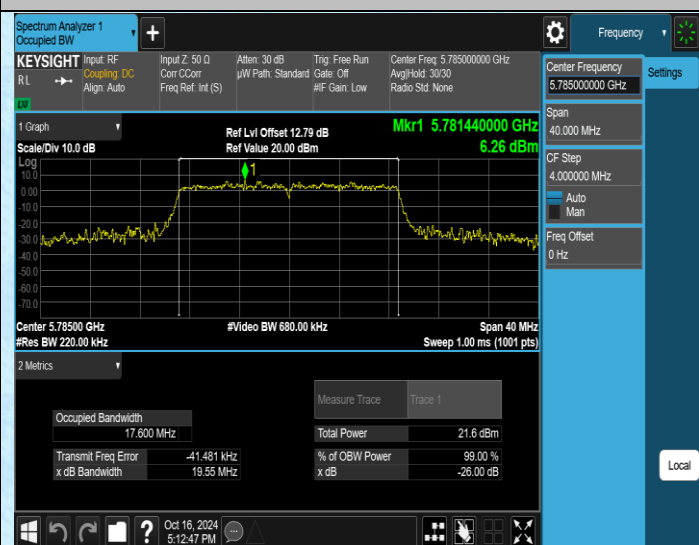
11AC20SISO-Ant1-5745



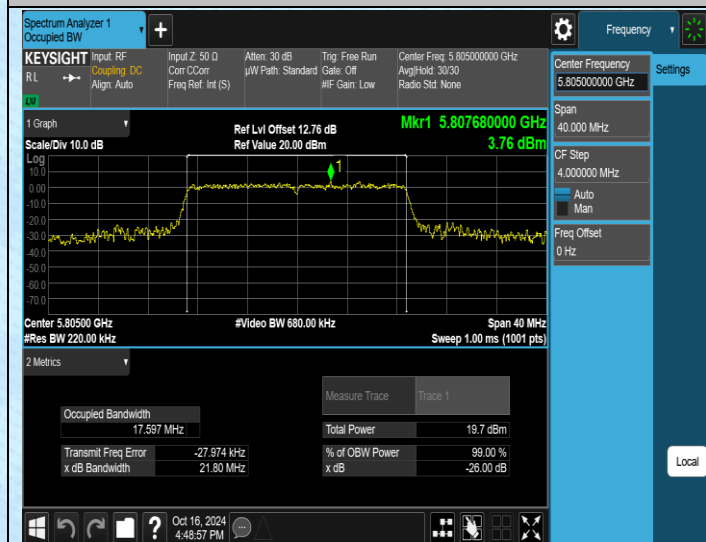
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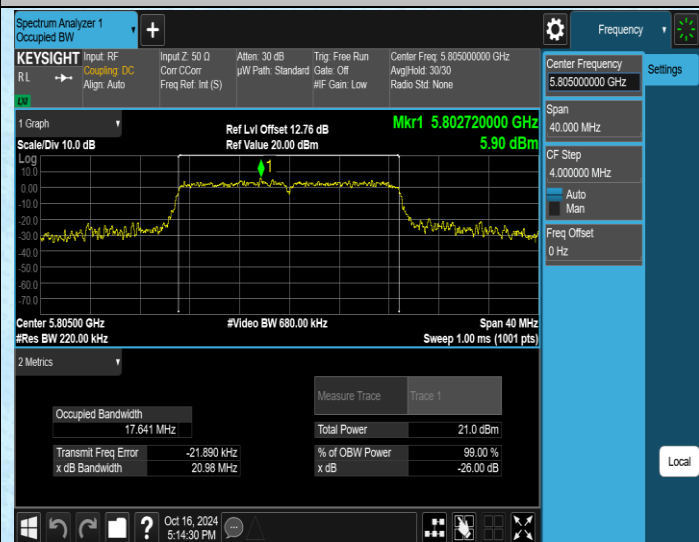
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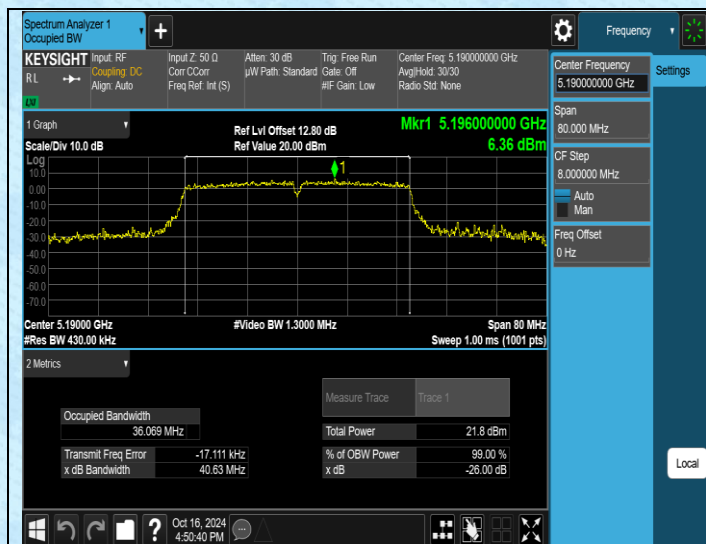
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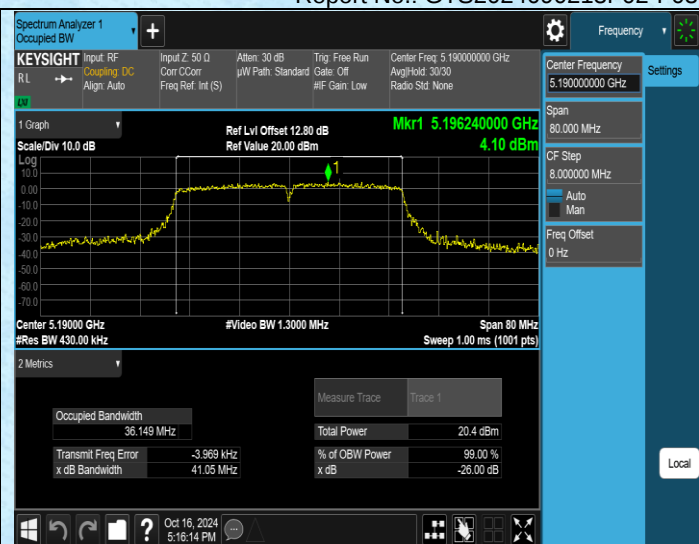
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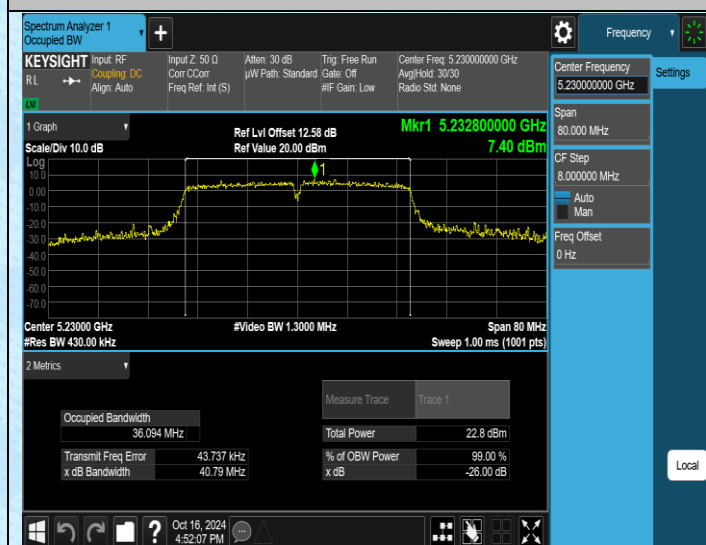
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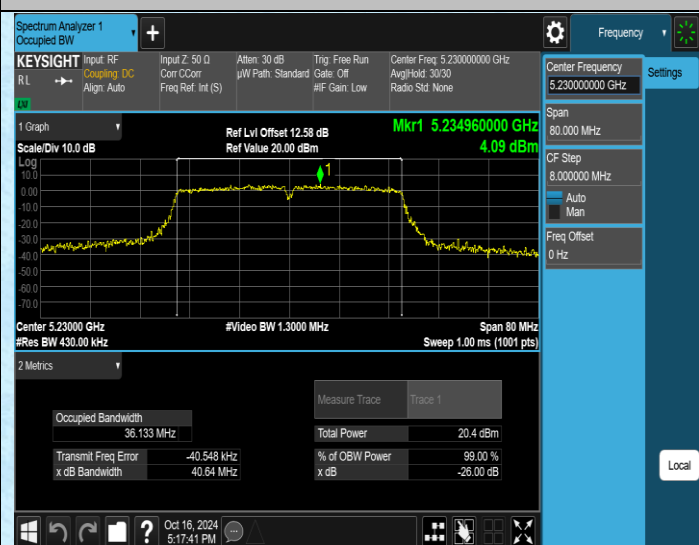
11AC40SISO-Ant1-5190



11AC40SISO-Ant2-5190



11AC40SISO-Ant1-5230



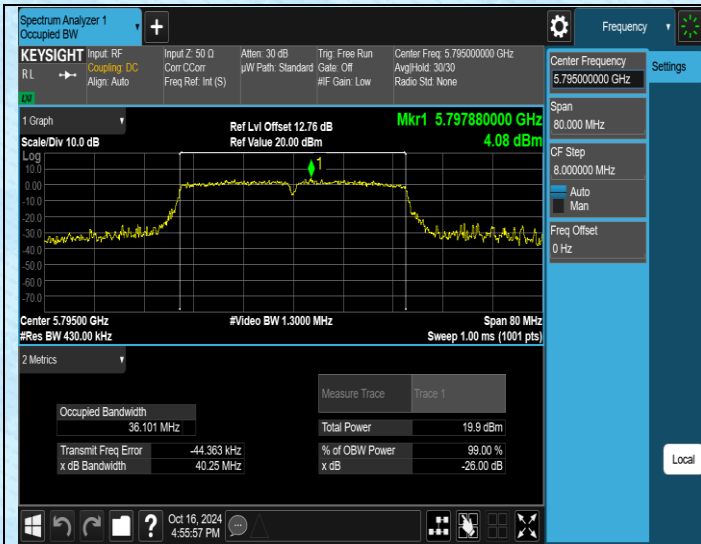
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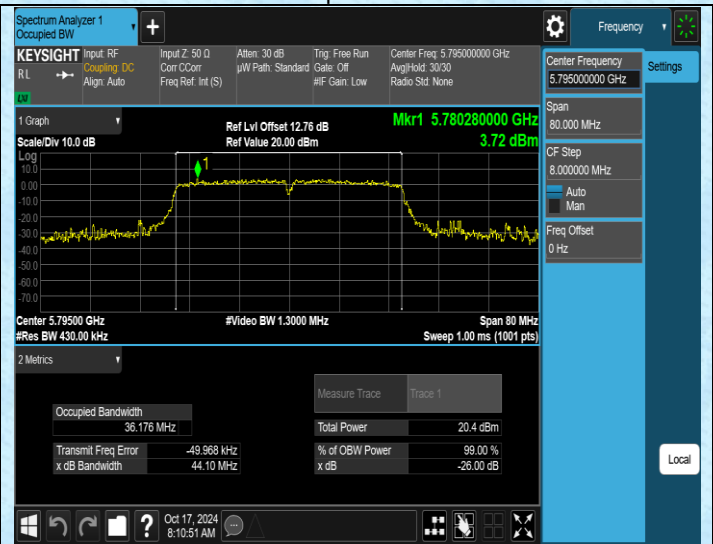
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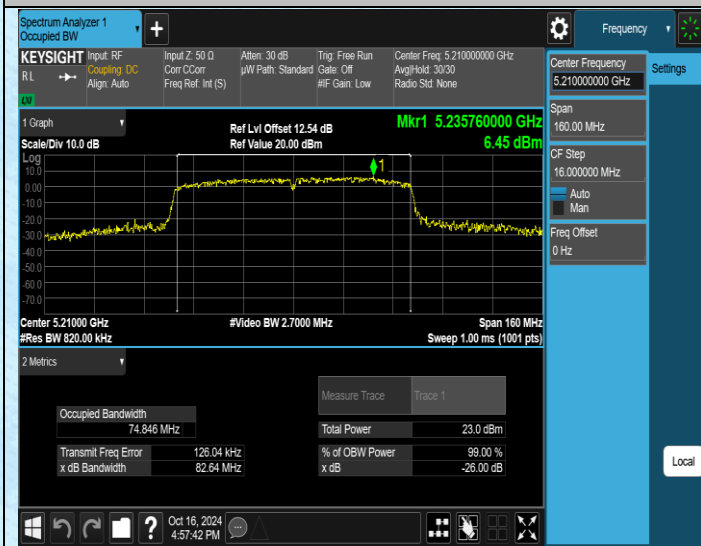
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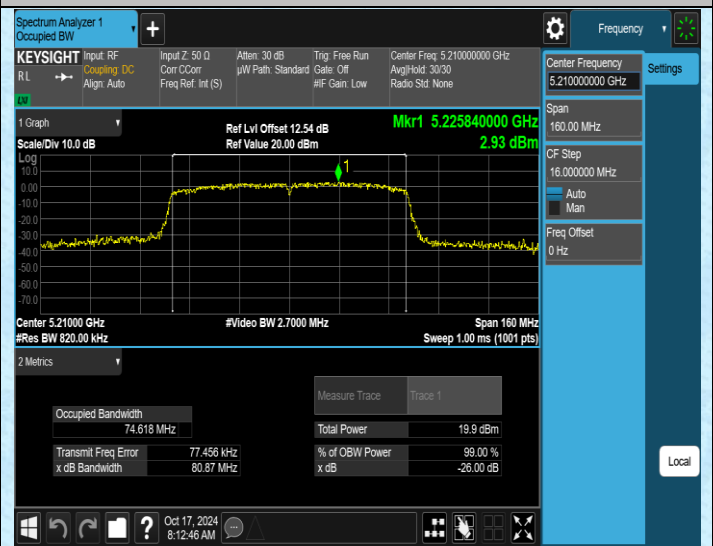
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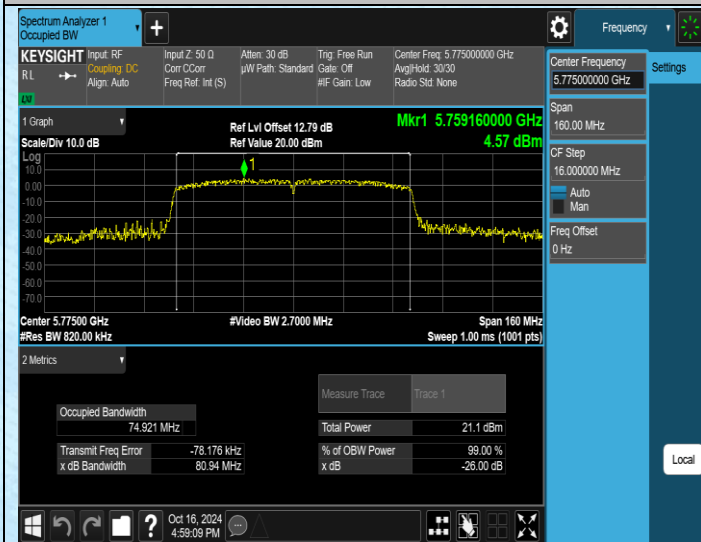
11AC40SISO-Ant2-5795



11AC80SISO-Ant1-5210



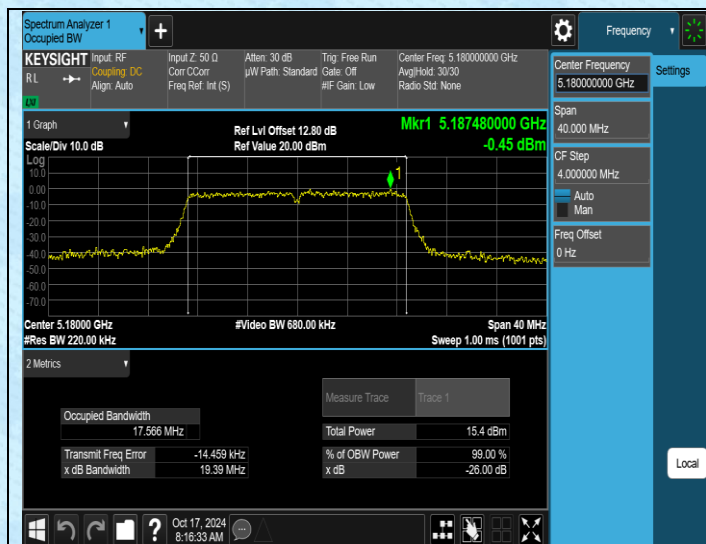
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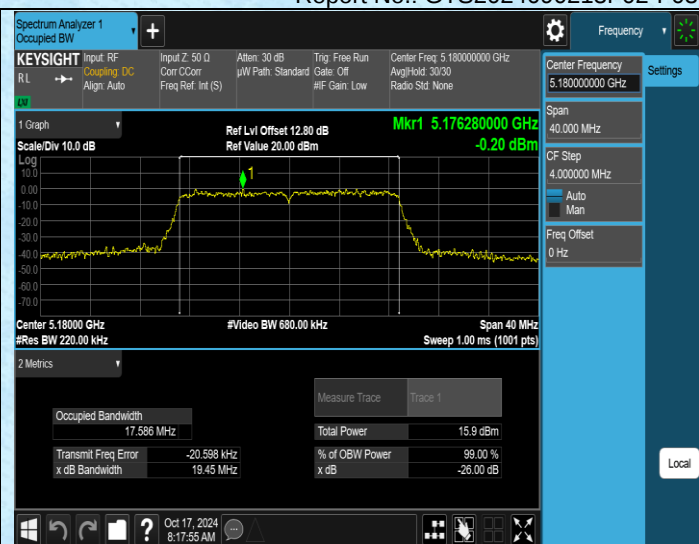
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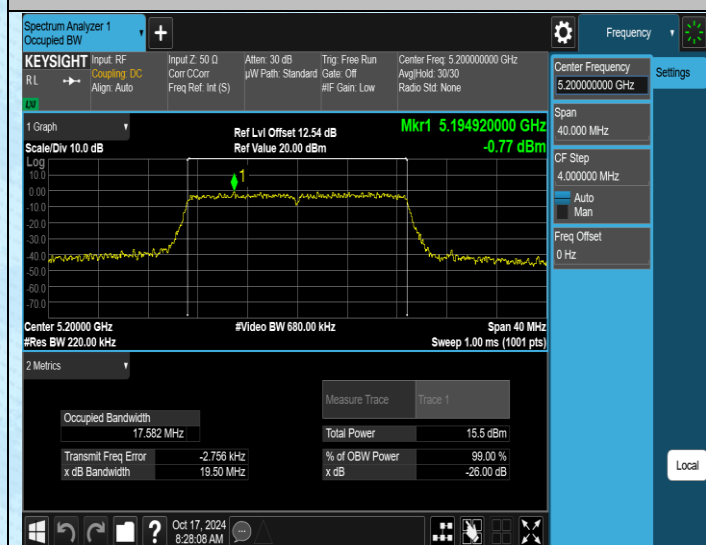
11AC80SISO-Ant2-5775



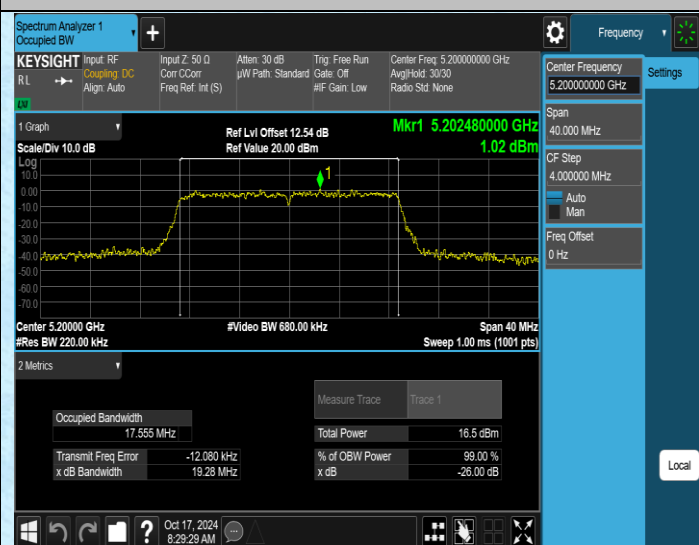
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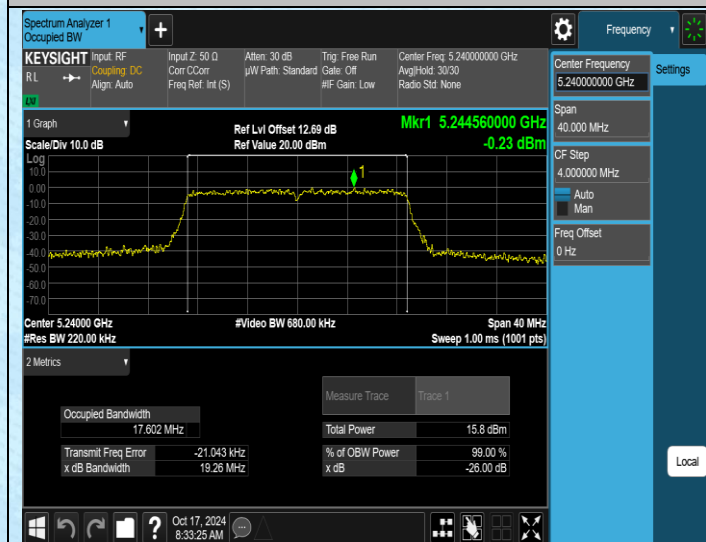
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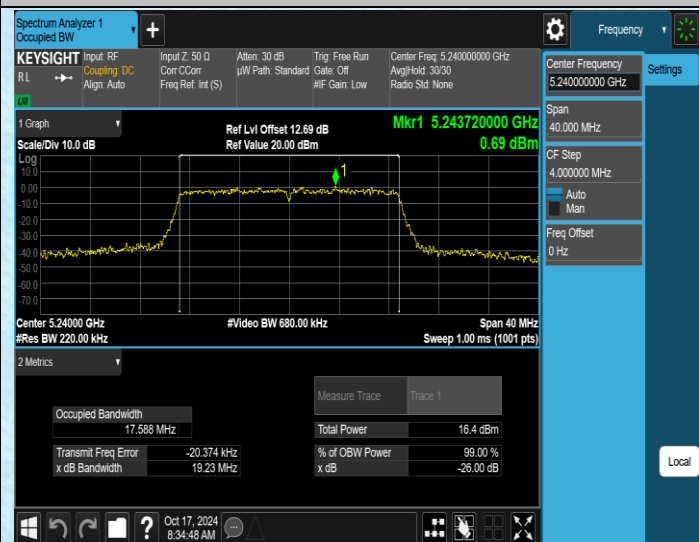
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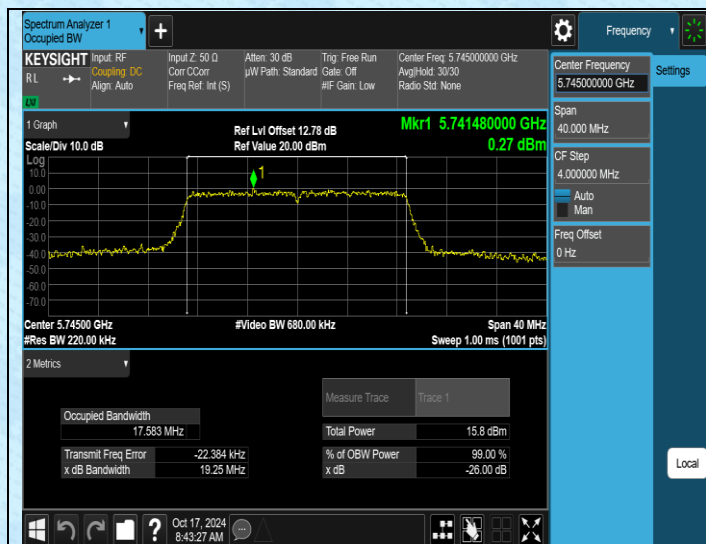
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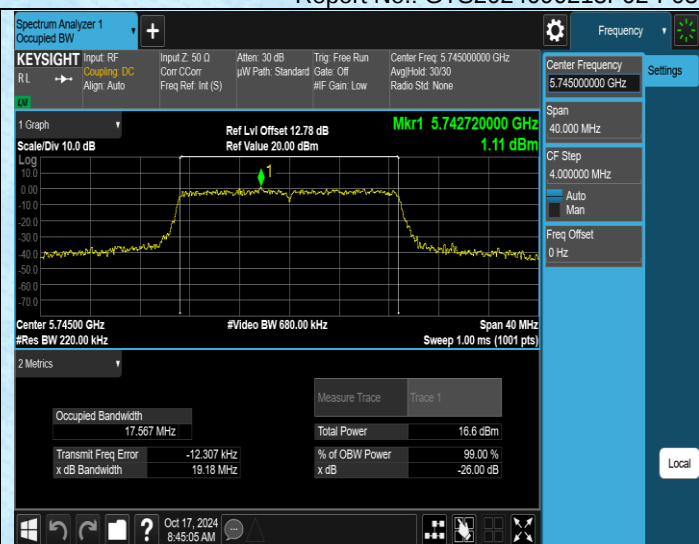
11AC20MIMO-Ant1-5240



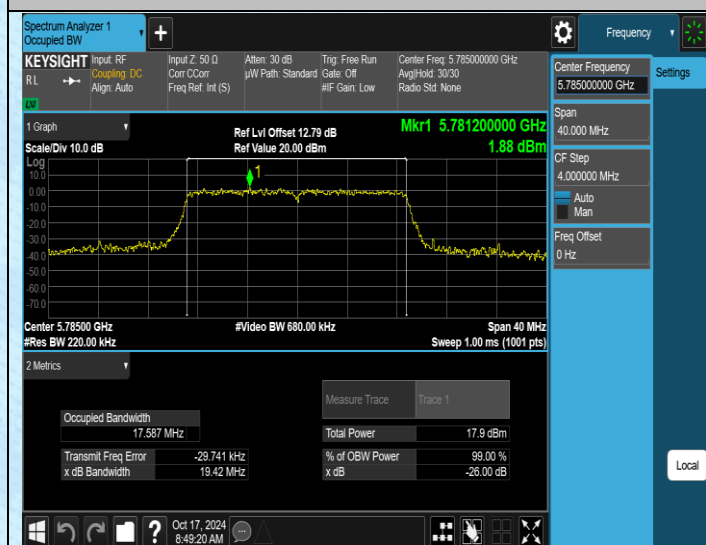
11AC20MIMO-Ant2-5240



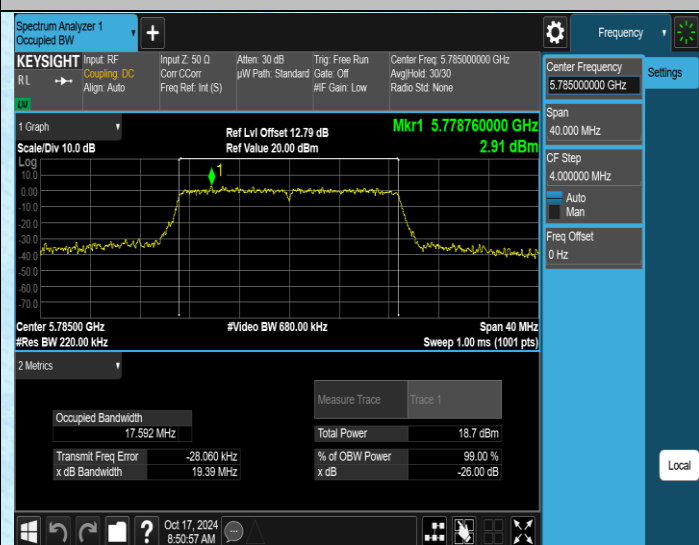
11AC20MIMO-Ant1-5745



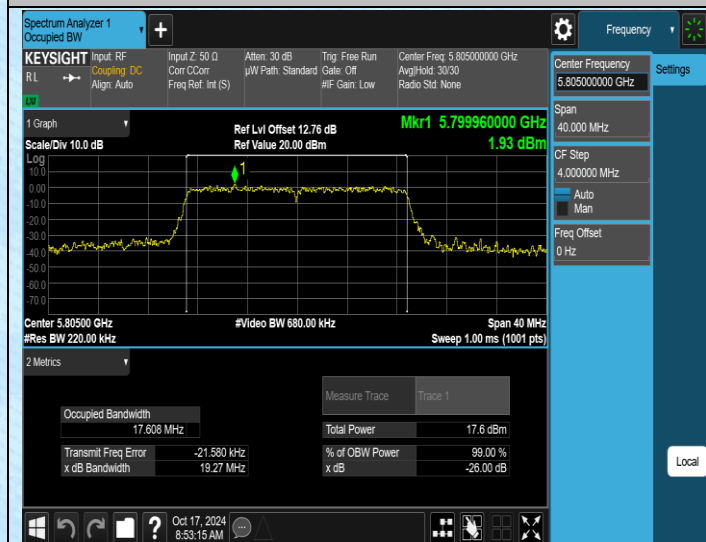
11AC20MIMO-Ant2-5745



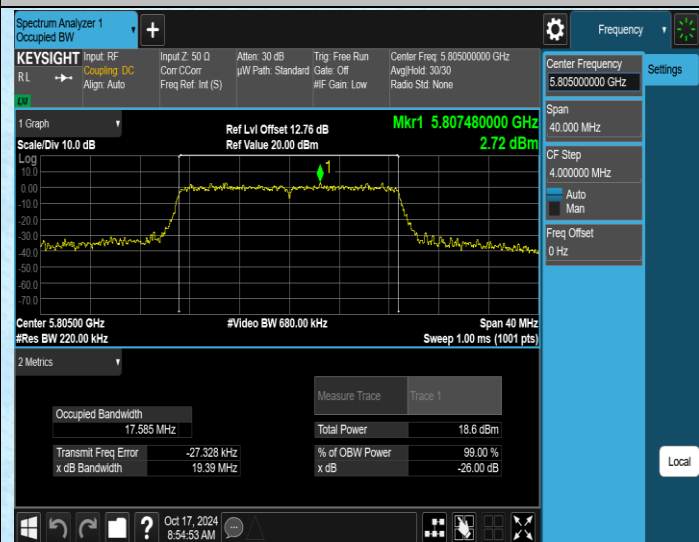
11AC20MIMO-Ant1-5785



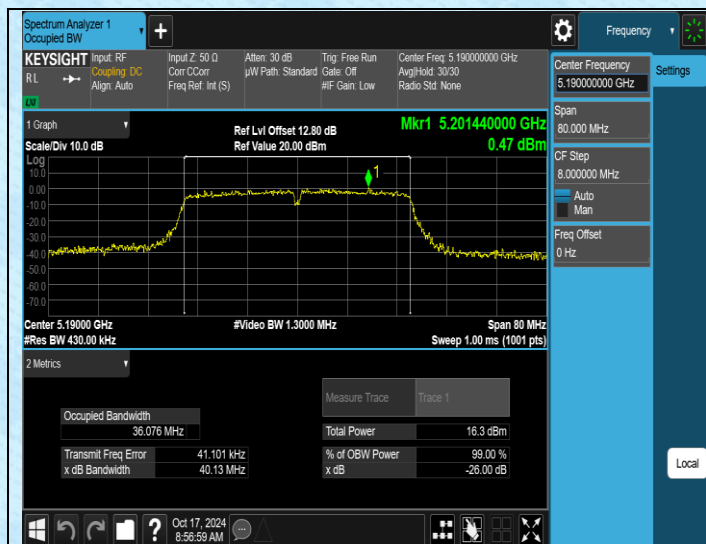
11AC20MIMO-Ant2-5785



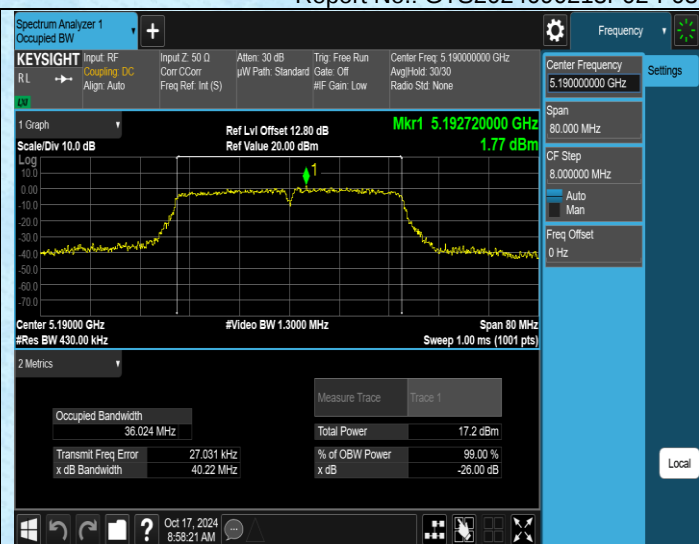
11AC20MIMO-Ant1-5805



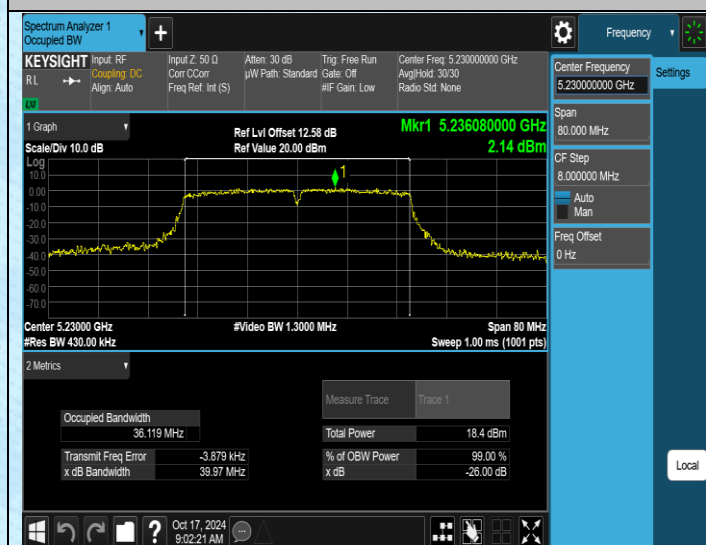
11AC20MIMO-Ant2-5805



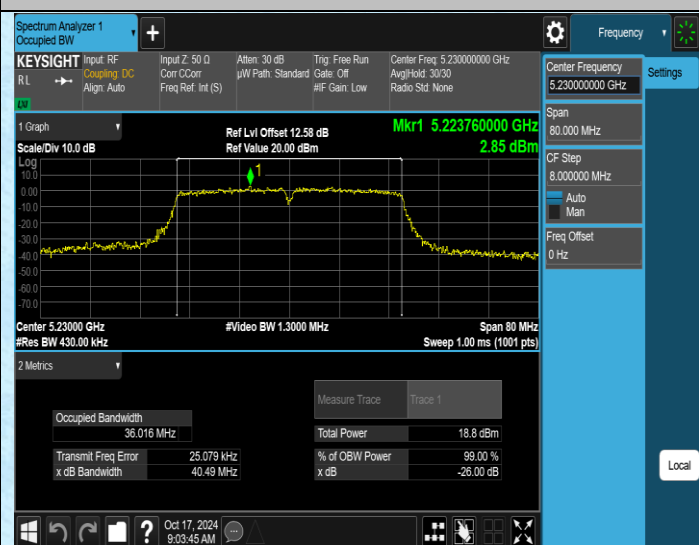
11AC40MIMO-Ant1-5190



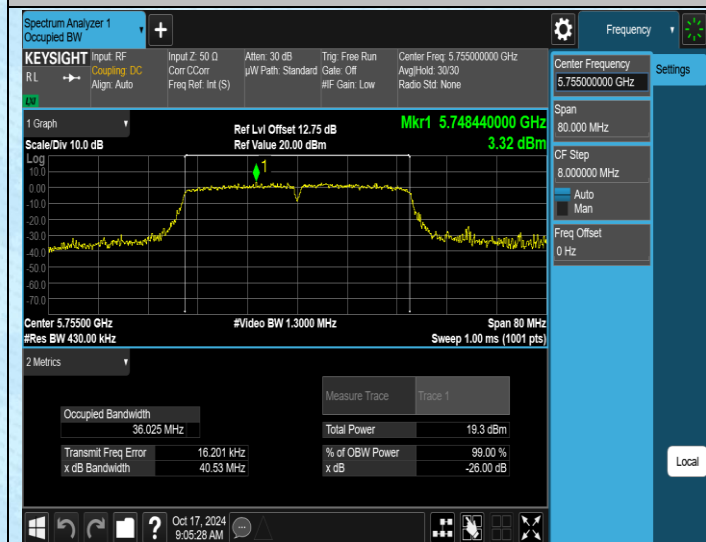
11AC40MIMO-Ant2-5190



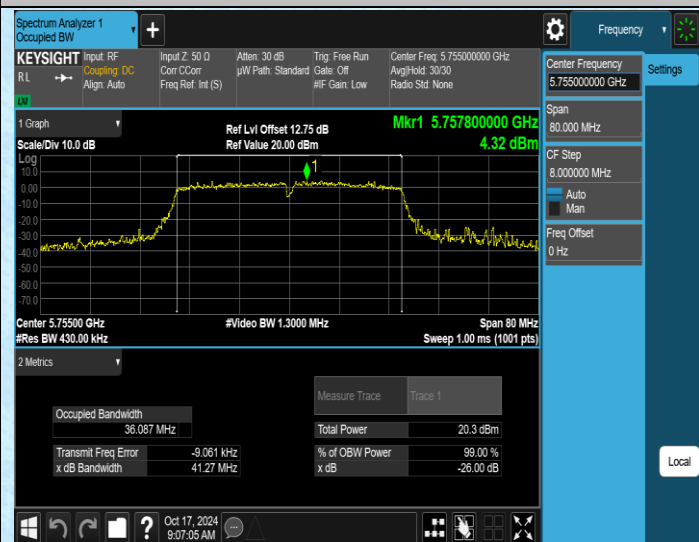
11AC40MIMO-Ant1-5230



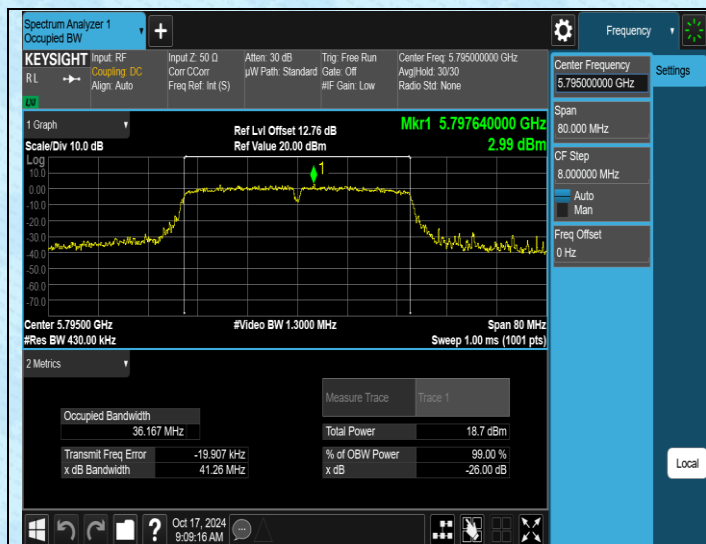
11AC40MIMO-Ant2-5230



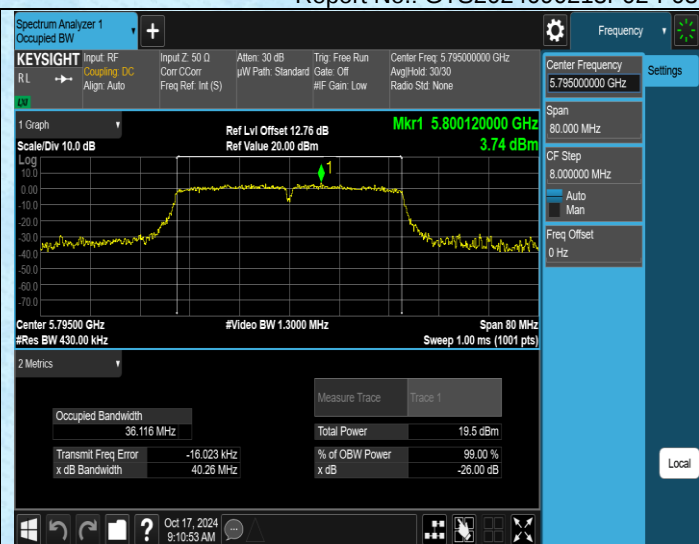
11AC40MIMO-Ant1-5755



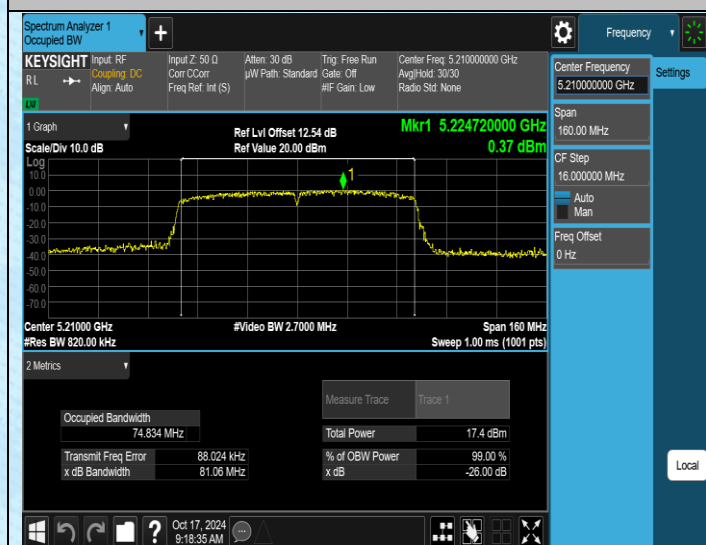
11AC40MIMO-Ant2-5755



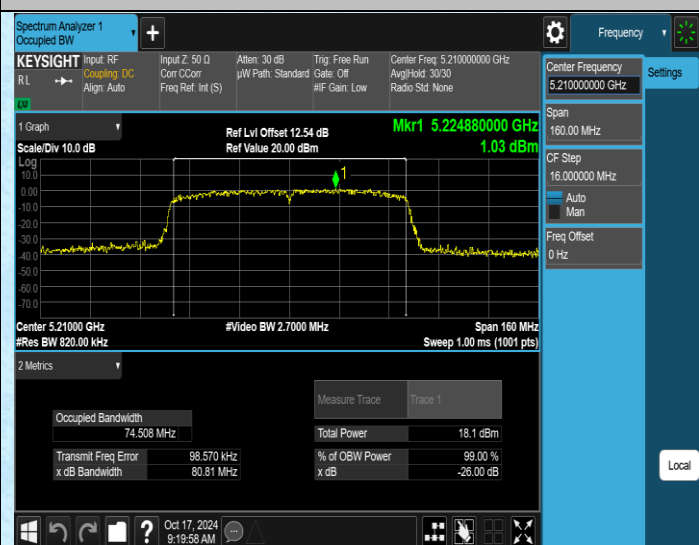
11AC40MIMO-Ant1-5795



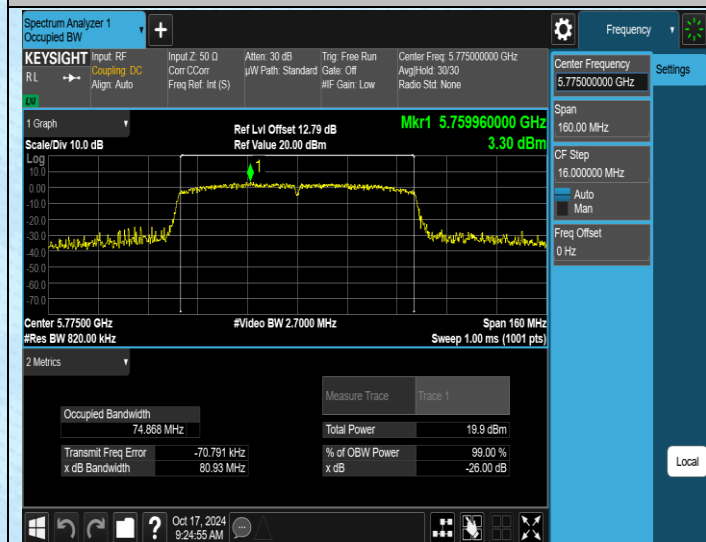
11AC40MIMO-Ant2-5795



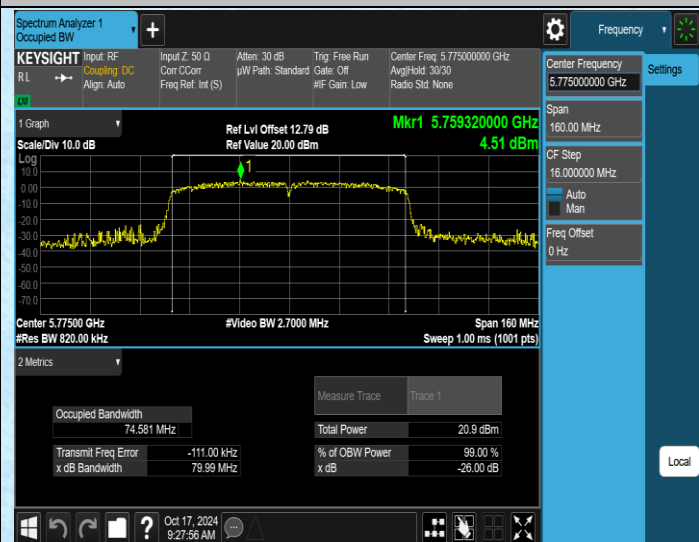
11AC80MIMO-Ant1-5210



11AC80MIMO-Ant2-5210



11AC80MIMO-Ant1-5775



11AC80MIMO-Ant2-5775

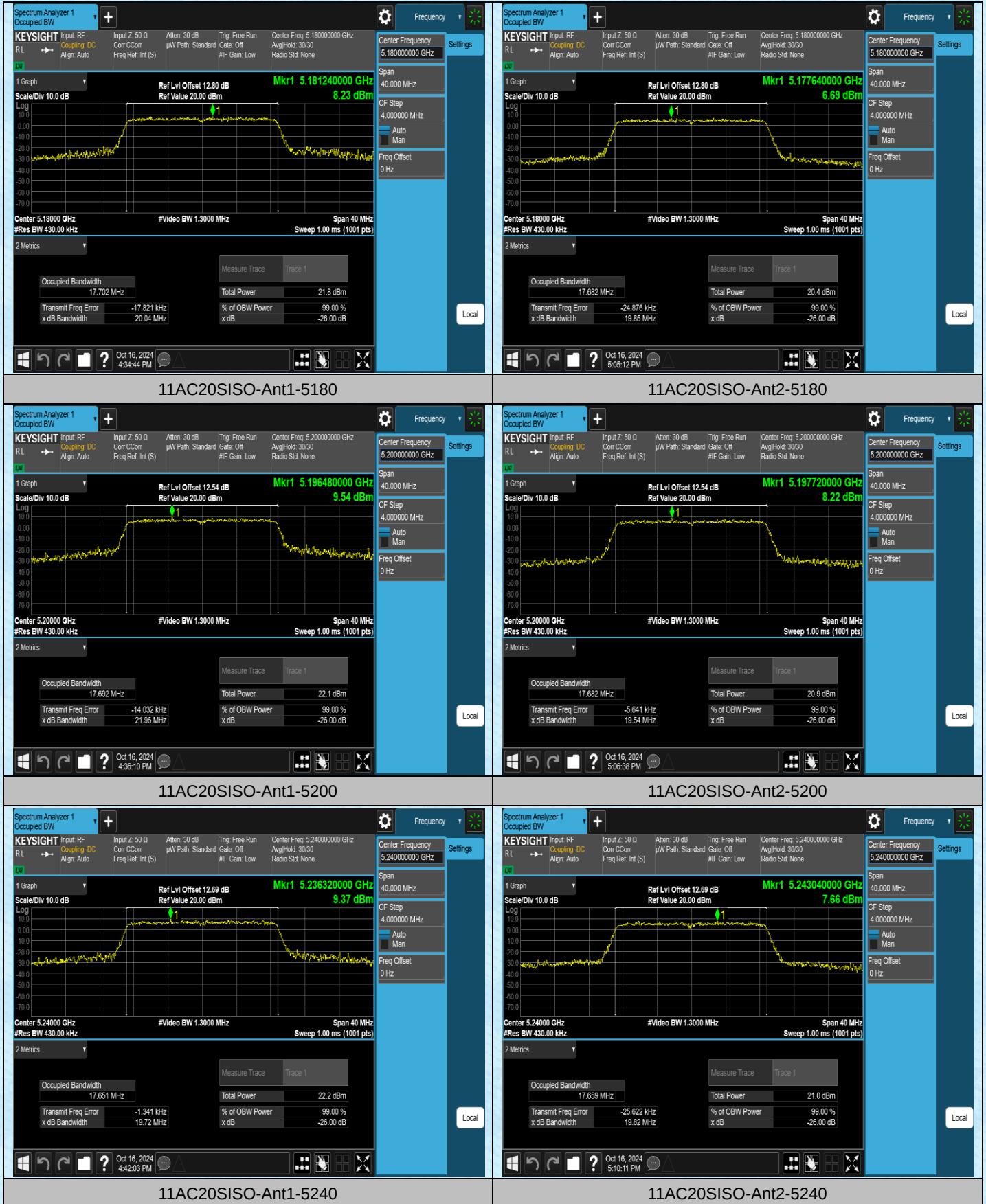
AppendixA2: Occupied channel bandwidth

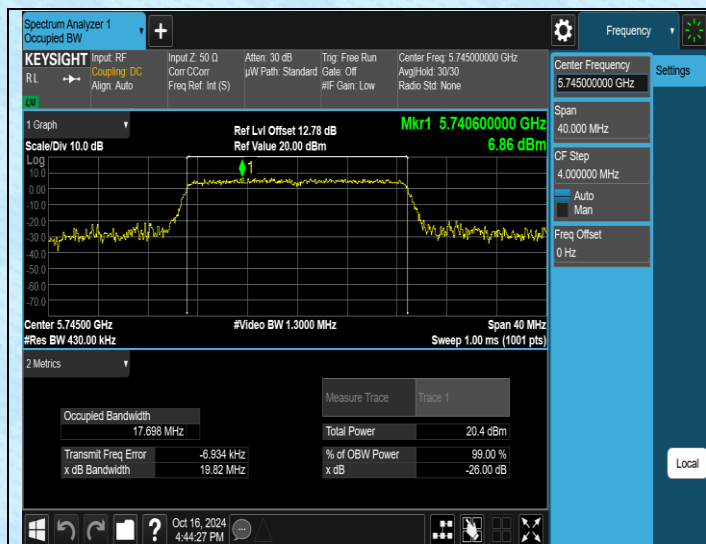
Test Result

Test Mode	Antenna	Frequency[MHz]	Rate	OCB [MHz]	FL[MHz]	FH[MHz]
11AC20SISO	Ant1	5180	MCS0	17.702	5171.1312	5188.8332
11AC20SISO	Ant2	5180	MCS0	17.682	5171.1341	5188.8161
11AC20SISO	Ant1	5200	MCS0	17.692	5191.1400	5208.8320
11AC20SISO	Ant2	5200	MCS0	17.682	5191.1534	5208.8354
11AC20SISO	Ant1	5240	MCS0	17.651	5231.1732	5248.8242
11AC20SISO	Ant2	5240	MCS0	17.659	5231.1449	5248.8039
11AC20SISO	Ant1	5745	MCS0	17.698	5736.1441	5753.8421
11AC20SISO	Ant2	5745	MCS0	17.694	5736.1484	5753.8424
11AC20SISO	Ant1	5785	MCS0	17.693	5776.1197	5793.8127
11AC20SISO	Ant2	5785	MCS0	17.682	5776.1282	5793.8102
11AC20SISO	Ant1	5805	MCS0	17.753	5796.1082	5813.8612
11AC20SISO	Ant2	5805	MCS0	17.765	5796.0928	5813.8578
11AC40SISO	Ant1	5190	MCS0	36.265	5171.8801	5208.1451
11AC40SISO	Ant2	5190	MCS0	36.152	5171.9323	5208.0843
11AC40SISO	Ant1	5230	MCS0	36.187	5211.9481	5248.1351
11AC40SISO	Ant2	5230	MCS0	36.097	5211.9146	5248.0116
11AC40SISO	Ant1	5755	MCS0	36.204	5736.9304	5773.1344
11AC40SISO	Ant2	5755	MCS0	36.120	5736.9685	5773.0885
11AC40SISO	Ant1	5795	MCS0	36.207	5776.8755	5813.0825
11AC40SISO	Ant2	5795	MCS0	36.166	5776.8545	5813.0205
11AC80SISO	Ant1	5210	MCS0	74.843	5172.8570	5247.7000
11AC80SISO	Ant2	5210	MCS0	74.609	5172.8342	5247.4432
11AC80SISO	Ant1	5775	MCS0	74.945	5737.5271	5812.4721
11AC80SISO	Ant2	5775	MCS0	74.951	5737.5672	5812.5182
11AC20MIMO	Ant1	5180	MCS0	17.660	5171.1632	5188.8232
11AC20MIMO	Ant2	5180	MCS0	17.659	5171.1812	5188.8402
11AC20MIMO	Ant1	5200	MCS0	17.656	5191.1558	5208.8118
11AC20MIMO	Ant2	5200	MCS0	17.645	5191.1597	5208.8047
11AC20MIMO	Ant1	5240	MCS0	17.659	5231.1575	5248.8165
11AC20MIMO	Ant2	5240	MCS0	17.687	5231.1501	5248.8371
11AC20MIMO	Ant1	5745	MCS0	17.694	5736.1350	5753.8290
11AC20MIMO	Ant2	5745	MCS0	17.639	5736.1756	5753.8146
11AC20MIMO	Ant1	5785	MCS0	17.654	5776.1441	5793.7981
11AC20MIMO	Ant2	5785	MCS0	17.646	5776.1384	5793.7844
11AC20MIMO	Ant1	5805	MCS0	17.675	5796.1458	5813.8208
11AC20MIMO	Ant2	5805	MCS0	17.665	5796.1537	5813.8187
11AC40MIMO	Ant1	5190	MCS0	36.150	5171.9525	5208.1025
11AC40MIMO	Ant2	5190	MCS0	36.134	5171.9442	5208.0782
11AC40MIMO	Ant1	5230	MCS0	36.127	5211.9709	5248.0979
11AC40MIMO	Ant2	5230	MCS0	36.161	5211.8877	5248.0487

11AC40MIMO	Ant1	5755	MCS0	36.104	5736.9497	5773.0537
11AC40MIMO	Ant2	5755	MCS0	36.106	5736.9444	5773.0504
11AC40MIMO	Ant1	5795	MCS0	36.112	5776.8987	5813.0107
11AC40MIMO	Ant2	5795	MCS0	36.182	5776.8870	5813.0690
11AC80MIMO	Ant1	5210	MCS0	74.793	5172.6851	5247.4781
11AC80MIMO	Ant2	5210	MCS0	74.466	5172.9546	5247.4206
11AC80MIMO	Ant1	5775	MCS0	75.030	5737.4489	5812.4789
11AC80MIMO	Ant2	5775	MCS0	74.598	5737.5728	5812.1708

Test Graphs

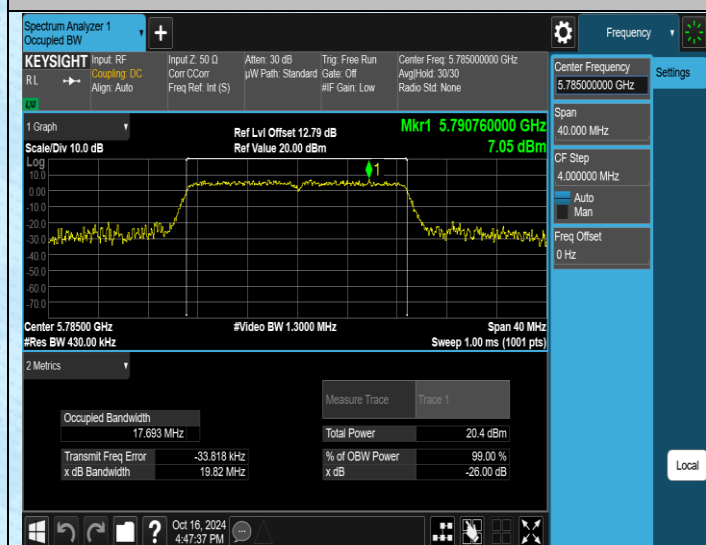




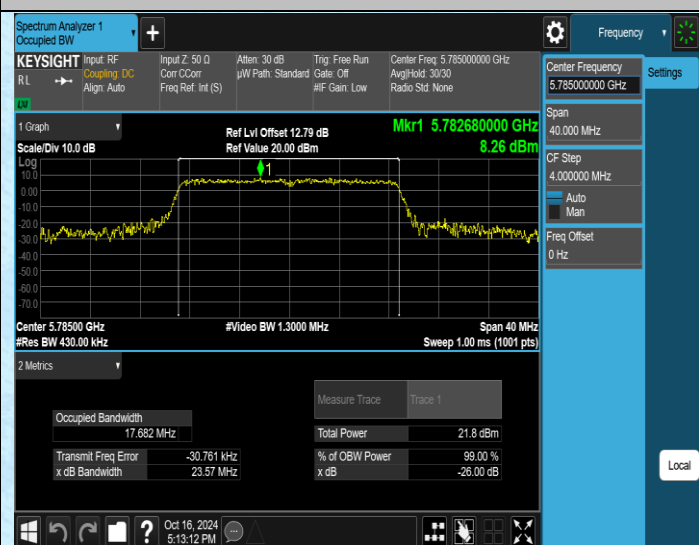
11AC20SISO-Ant1-5745



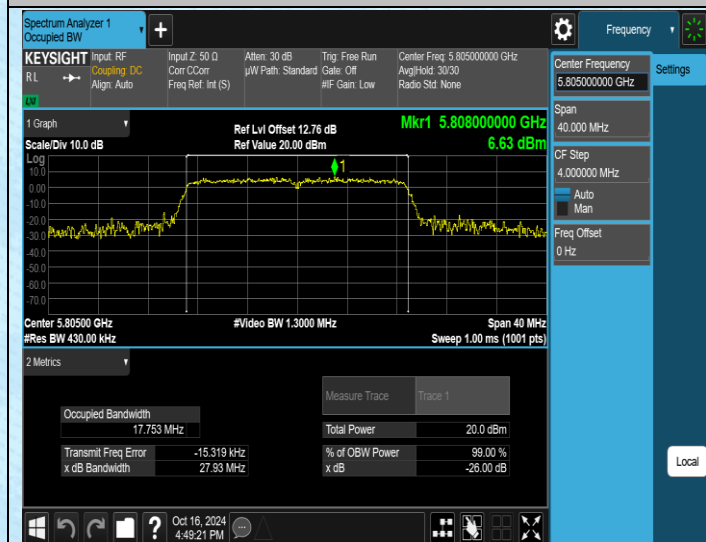
11AC20SISO-Ant2-5745



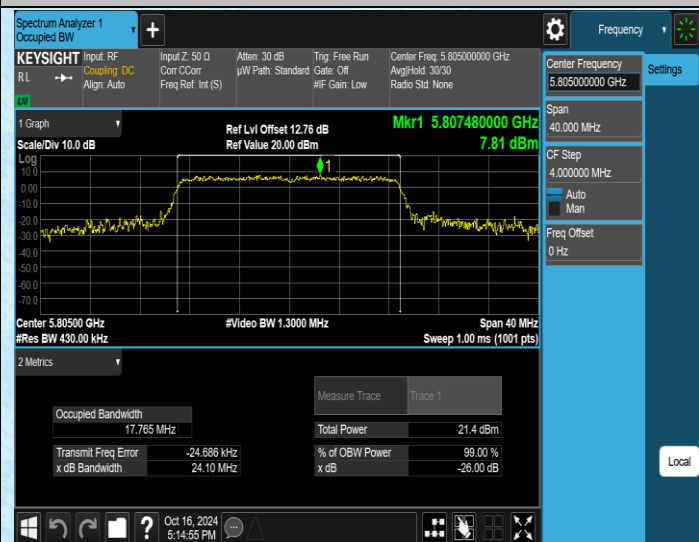
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11AC20SISO-Ant2-5785



11AC20SISO-Ant1-5805



11AC20SISO-Ant2-5805