



EBW Result_Radio 1

Appendix B.22

For Non-beamforming / 2T2S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	43.5M	19.665M	19M7D1D	21.3M	18.916M
802.11ax HEW40_Nss2,(MCS0)_2TX	61.2M	37.681M	37M7D1D	39.9M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.4M	77.061M	77M1D1D	81.1M	76.862M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

Appendix B.22

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.95M	18.916M	21.3M	18.941M
5200MHz	Pass	Inf	34.075M	19.04M	38.325M	19.015M
5240MHz	Pass	Inf	43.5M	19.665M	43.225M	19.615M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.631M	40.35M	37.481M
5230MHz	Pass	Inf	60.6M	37.681M	61.2M	37.631M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.1M	76.862M	81.4M	77.061M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

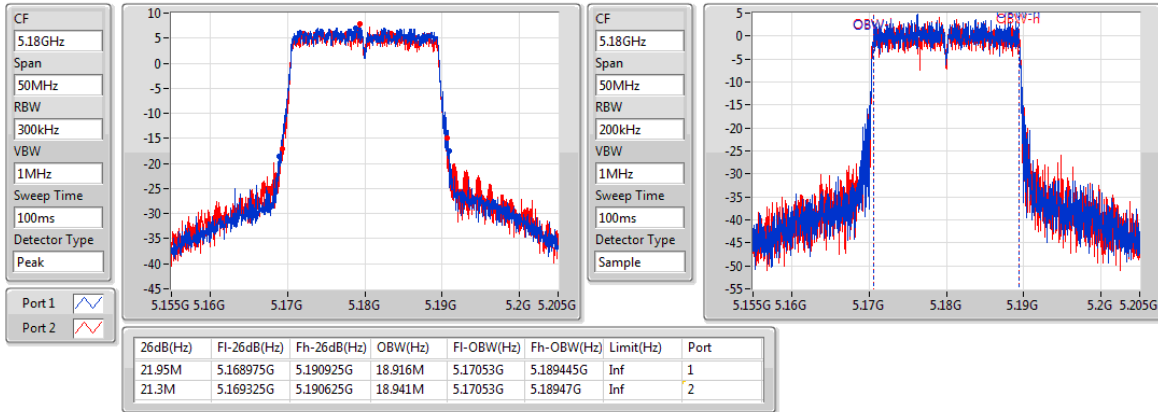
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

28/01/2019

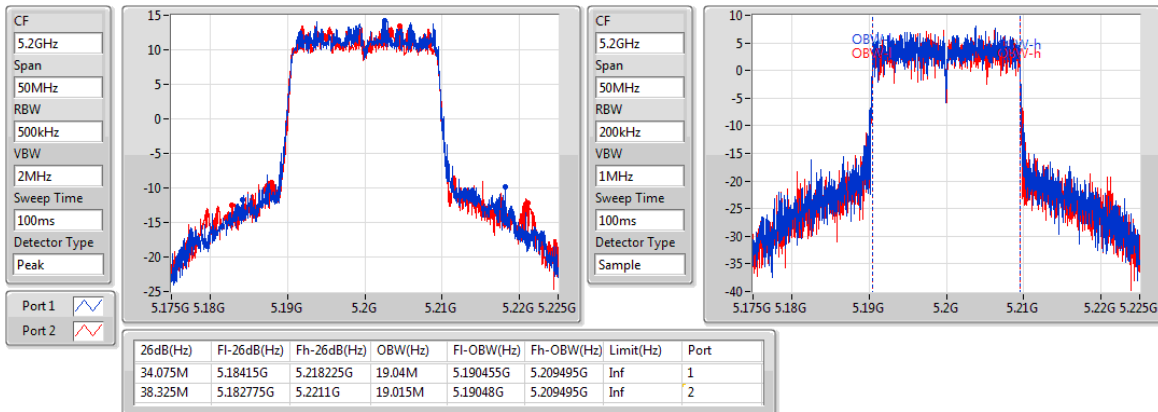


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

28/01/2019

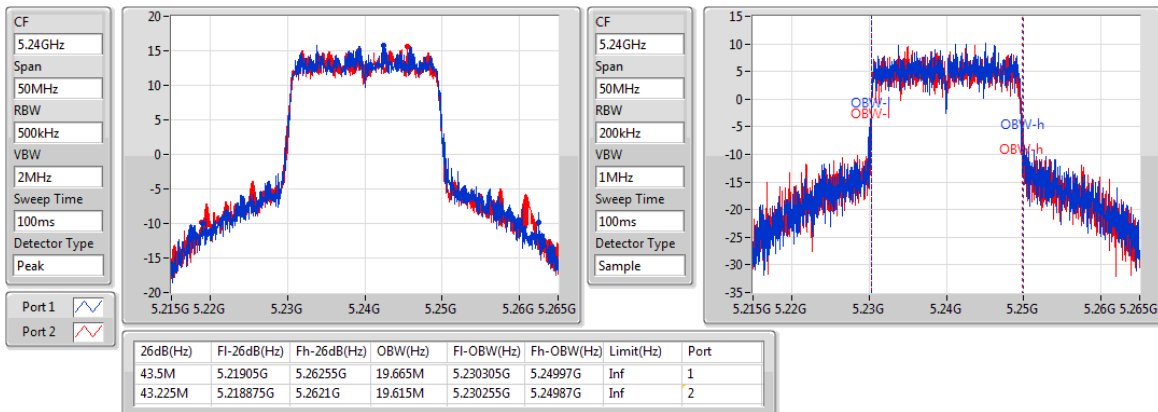


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

28/01/2019

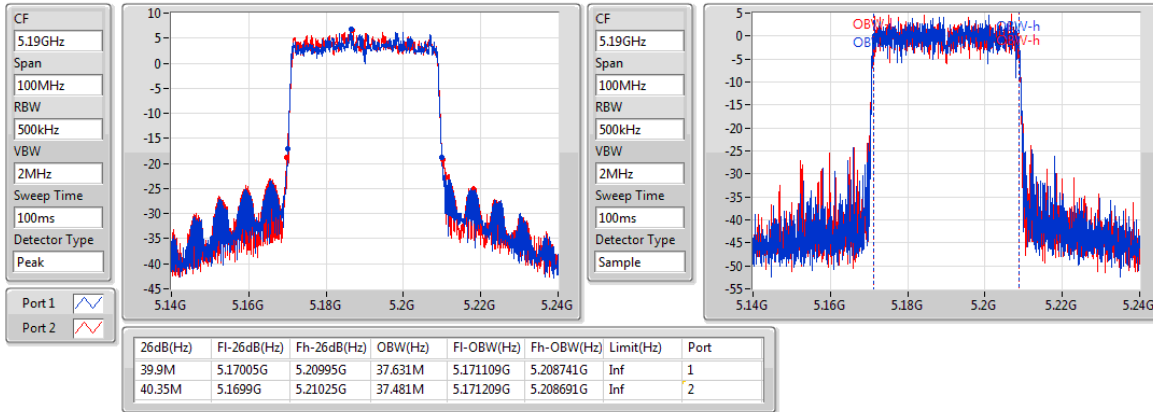


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

28/01/2019

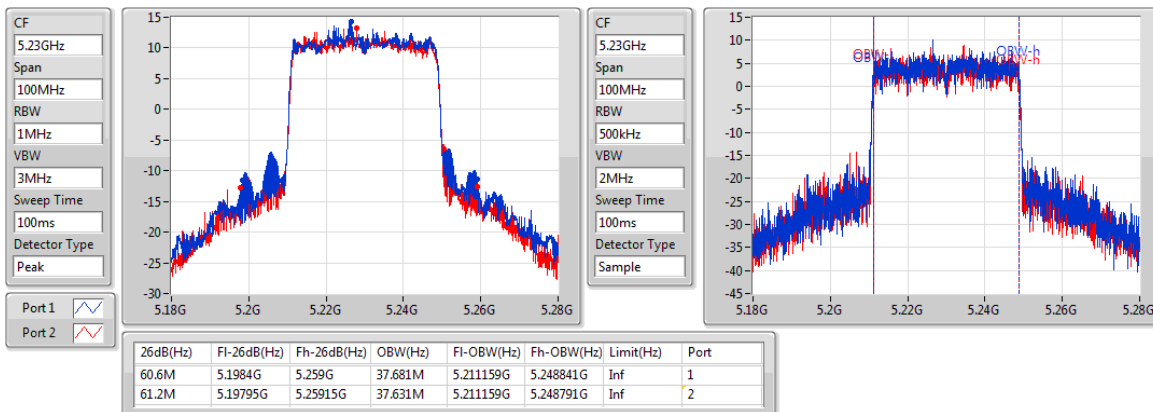


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

28/01/2019

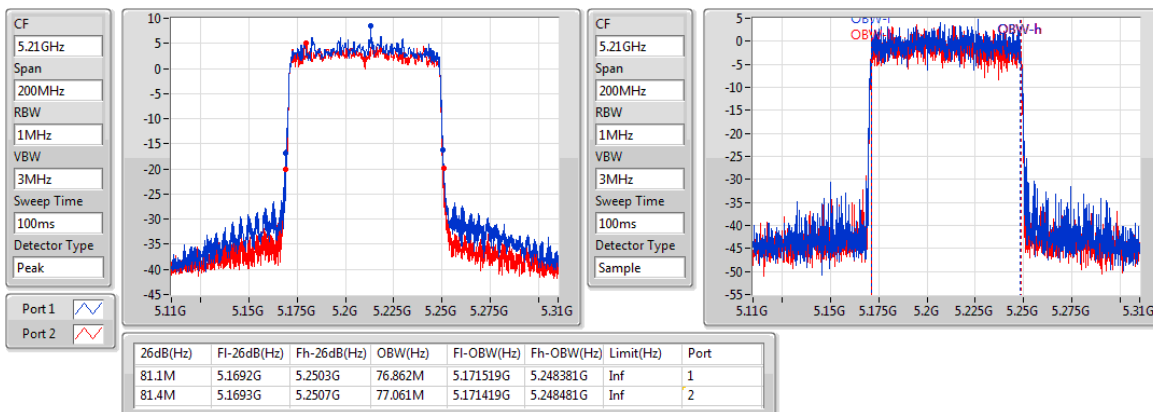


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

28/01/2019





EBW Result_Radio 1

Appendix B.23

For Non-beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	36.425M	16.642M	16M6D1D	21.525M	16.542M
802.11ax HEW20_Nss1,(MCS0)_4TX	45.25M	19.3M	19M3D1D	21.225M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.35M	37.631M	37M6D1D	39.9M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.7M	77.261M	77M3D1D	81.2M	76.862M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.55M	16.567M	21.525M	16.567M	21.675M	16.542M	21.575M	16.567M
5200MHz	Pass	Inf	27.275M	16.642M	27.1M	16.617M	36.425M	16.642M	22.025M	16.542M
5240MHz	Pass	Inf	27M	16.617M	26.375M	16.617M	27.35M	16.592M	22.125M	16.592M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.35M	18.941M	21.675M	18.991M	22.775M	18.941M	21.225M	18.991M
5200MHz	Pass	Inf	42M	19.3M	45.25M	19.275M	41.9M	19.25M	41.6M	19.25M
5240MHz	Pass	Inf	28.55M	18.966M	36.175M	19.015M	29.725M	18.991M	23M	18.991M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.531M	40.2M	37.581M	40.15M	37.581M	40M	37.481M
5230MHz	Pass	Inf	39.95M	37.531M	40.1M	37.631M	40.35M	37.631M	40.35M	37.631M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	76.962M	81.4M	76.862M	81.2M	77.261M	81.7M	77.061M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

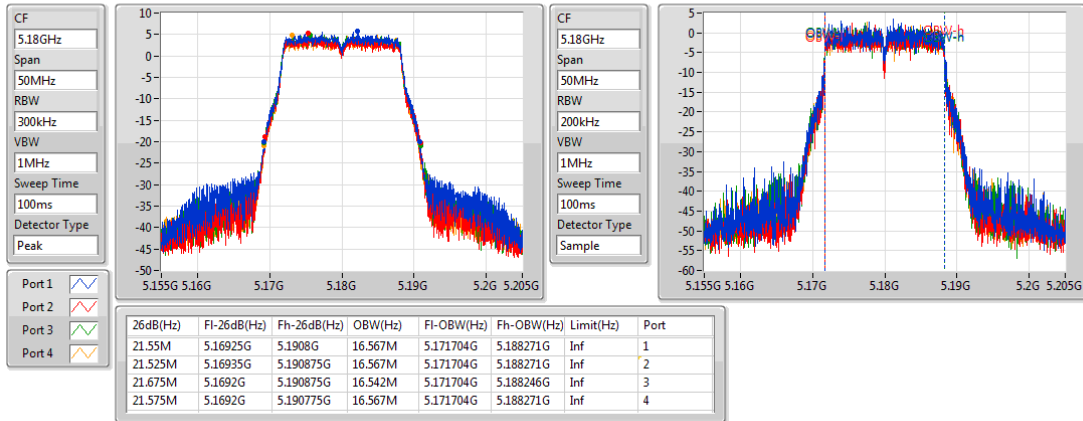
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

28/01/2019

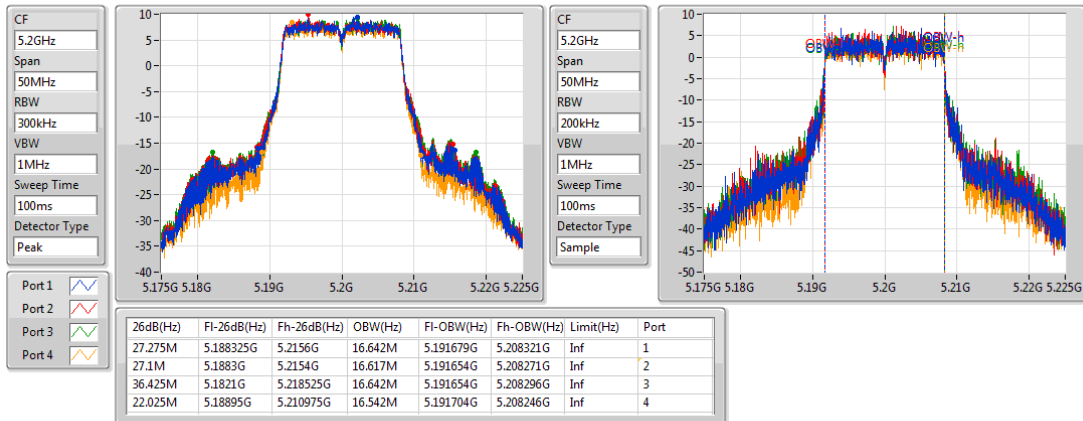


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

28/01/2019

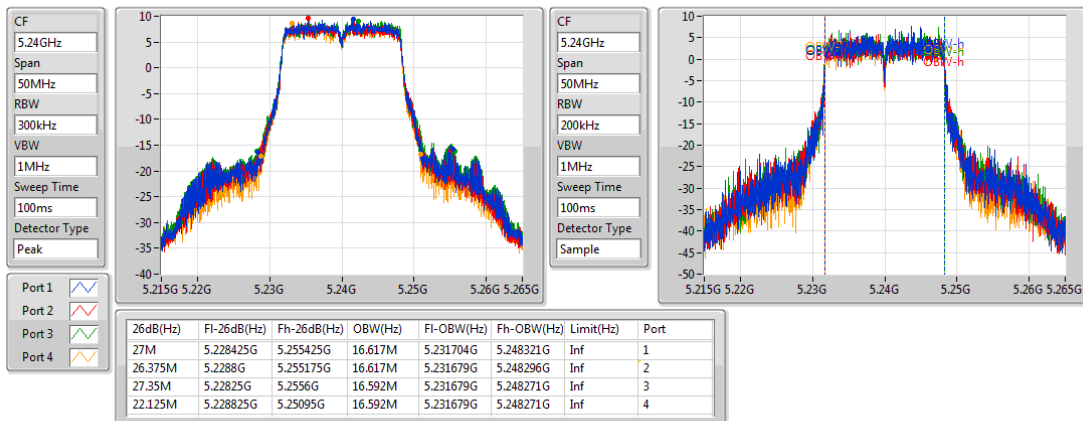


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

28/01/2019

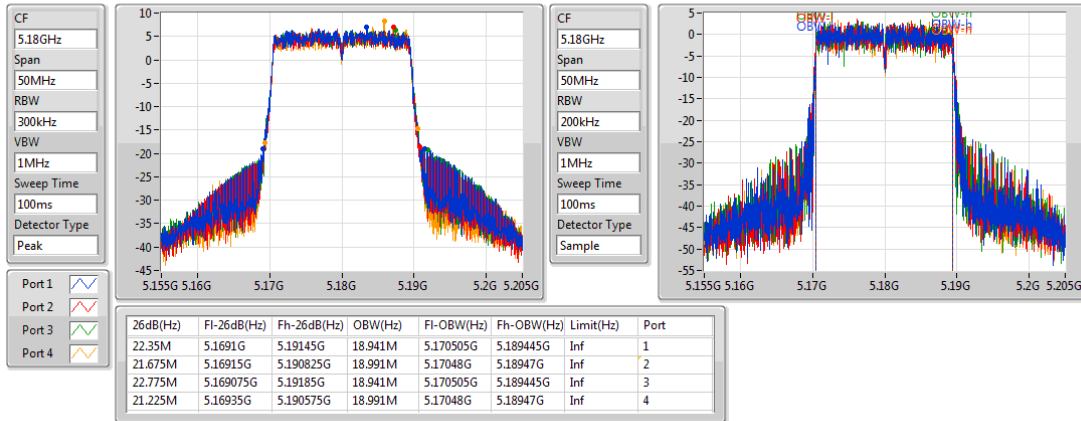


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

28/01/2019

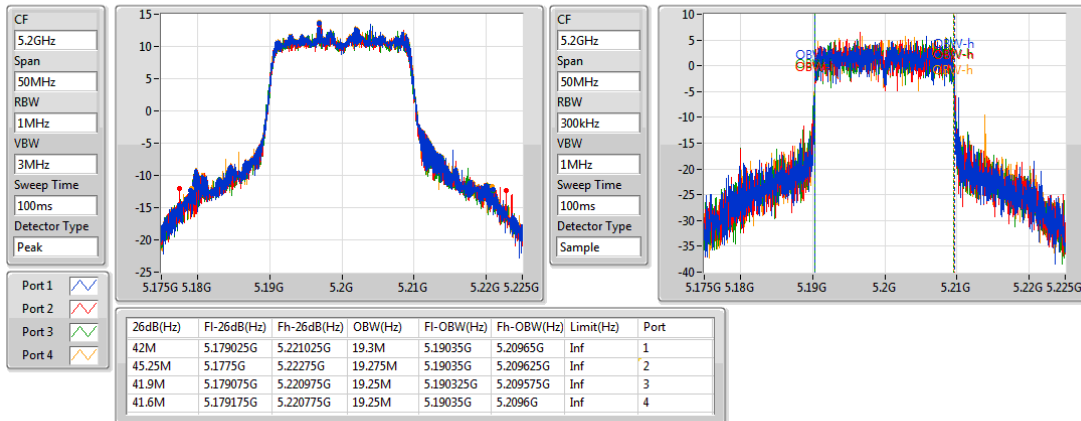


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

29/01/2019

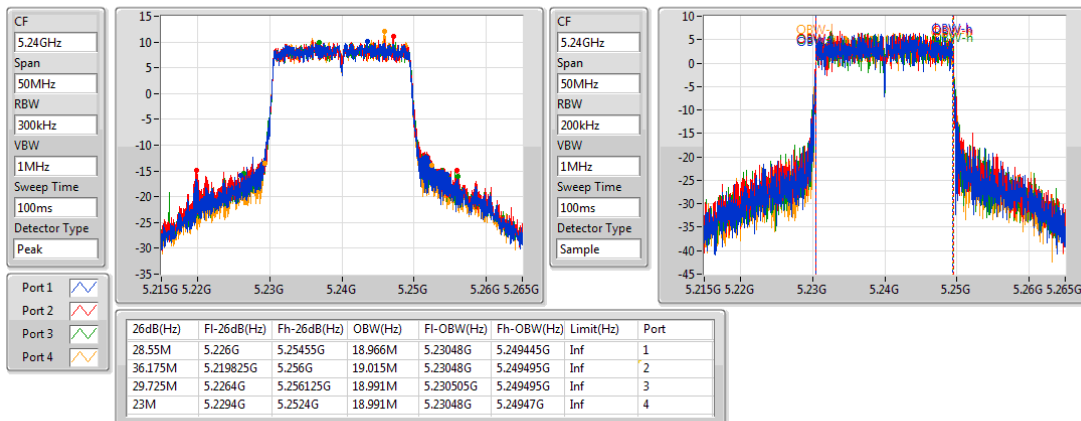


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

28/01/2019

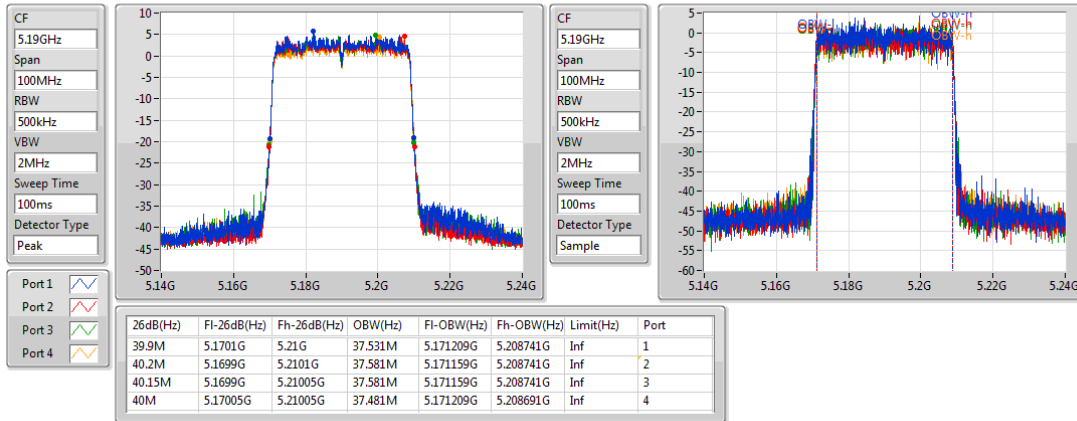


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

28/01/2019

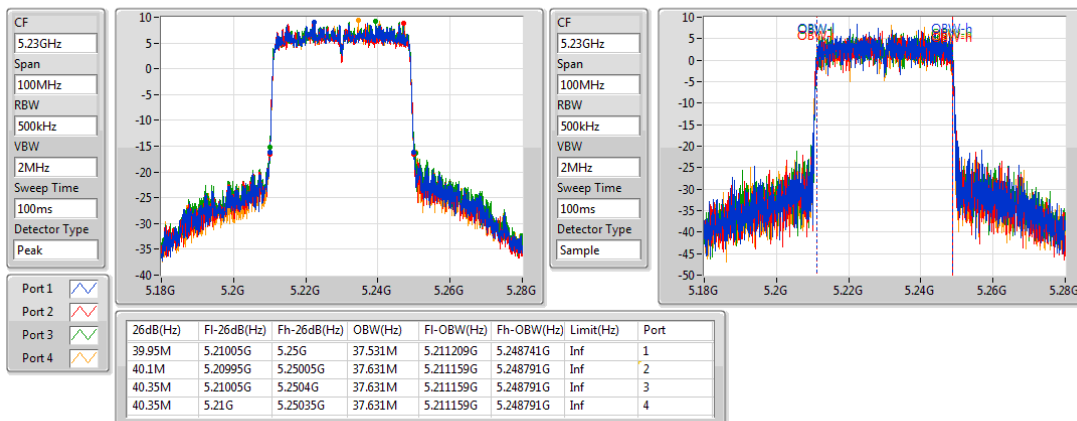


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

28/01/2019

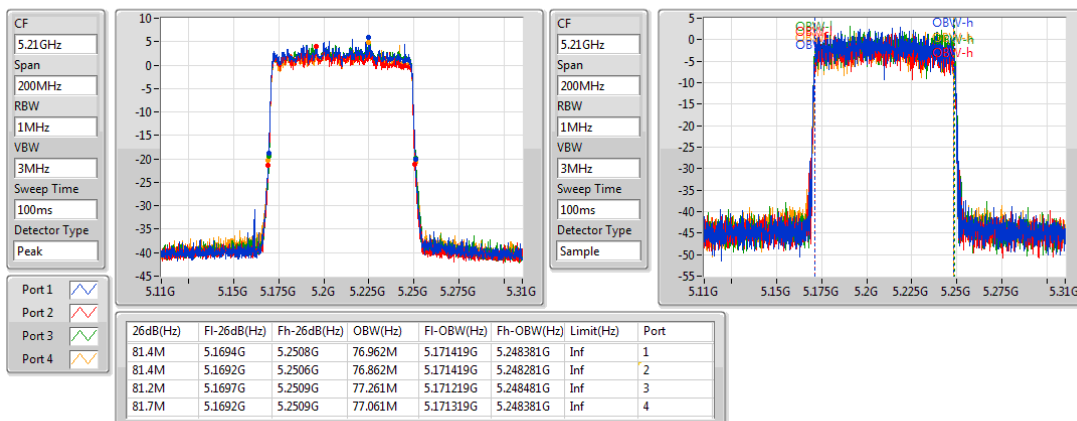


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

28/01/2019





EBW Result_Radio 1

Appendix B.24

For Beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.8M	18.991M	19M0D1D	21.4M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.25M	37.681M	37M7D1D	39.9M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.7M	77.061M	77M1D1D	81.7M	76.862M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.7M	18.941M	21.65M	18.966M	21.45M	18.966M	21.575M	18.991M
5200MHz	Pass	Inf	21.725M	18.941M	21.625M	18.941M	21.8M	18.991M	21.45M	18.941M
5240MHz	Pass	Inf	21.75M	18.916M	21.7M	18.916M	21.8M	18.966M	21.4M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.581M	39.9M	37.531M	40.1M	37.581M	40.15M	37.631M
5230MHz	Pass	Inf	40.05M	37.531M	40.05M	37.481M	40.25M	37.531M	40.15M	37.681M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.7M	77.061M	81.7M	76.962M	81.7M	76.862M	81.7M	77.061M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

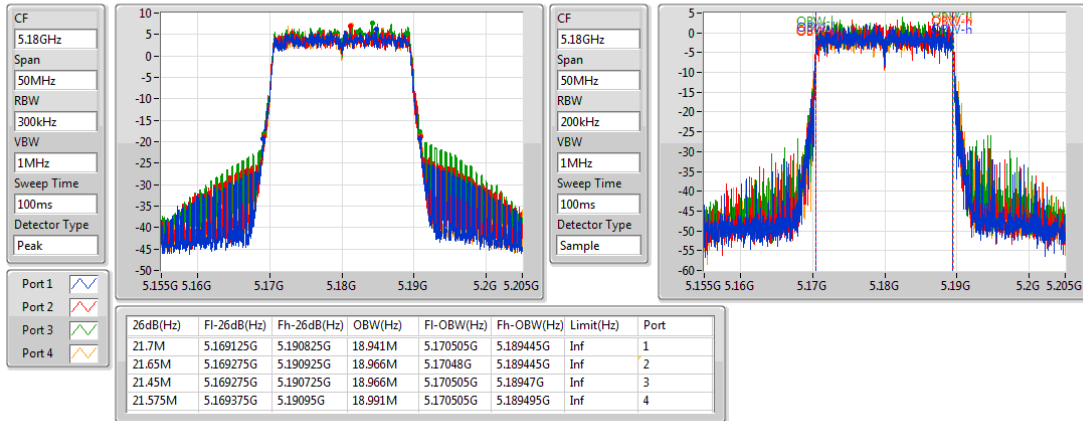
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

25/01/2019

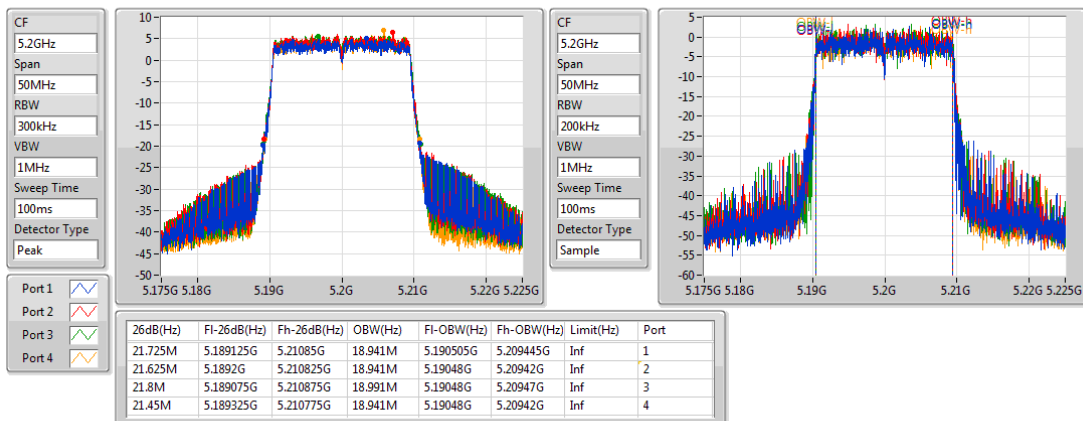


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

04/03/2019

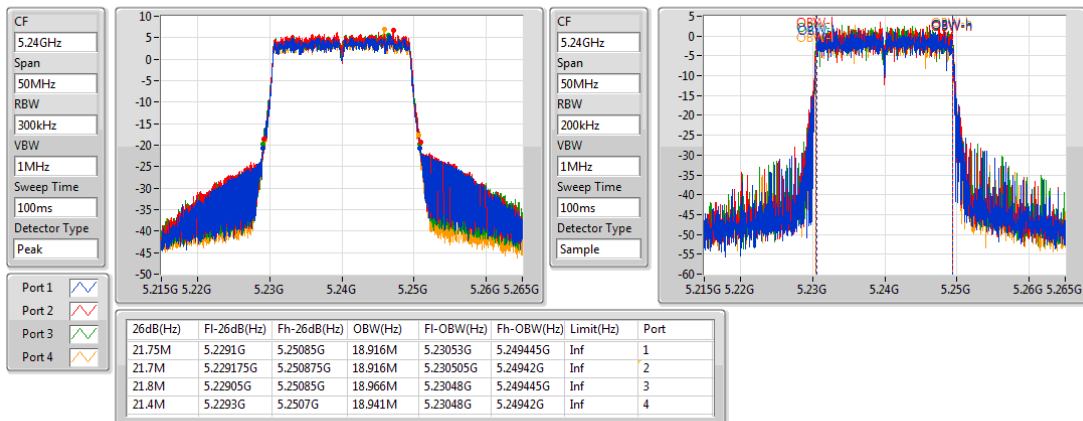


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

04/03/2019

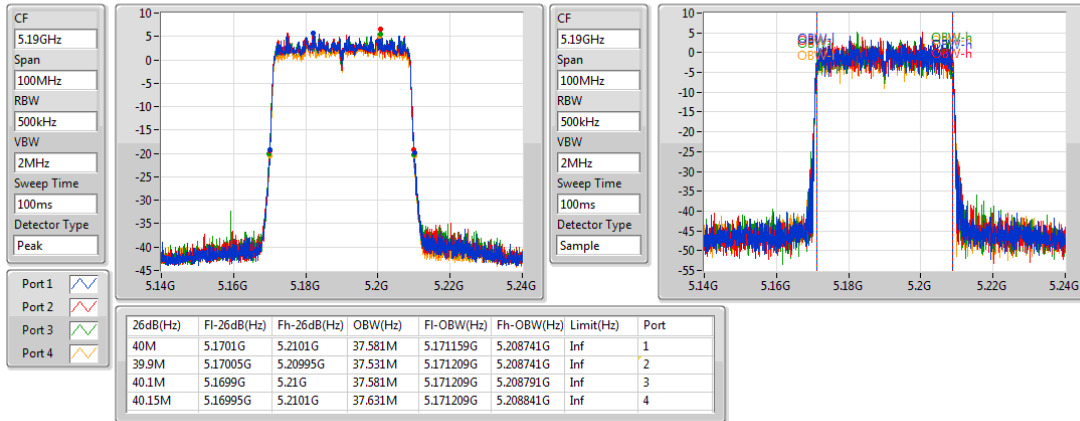


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

25/01/2019

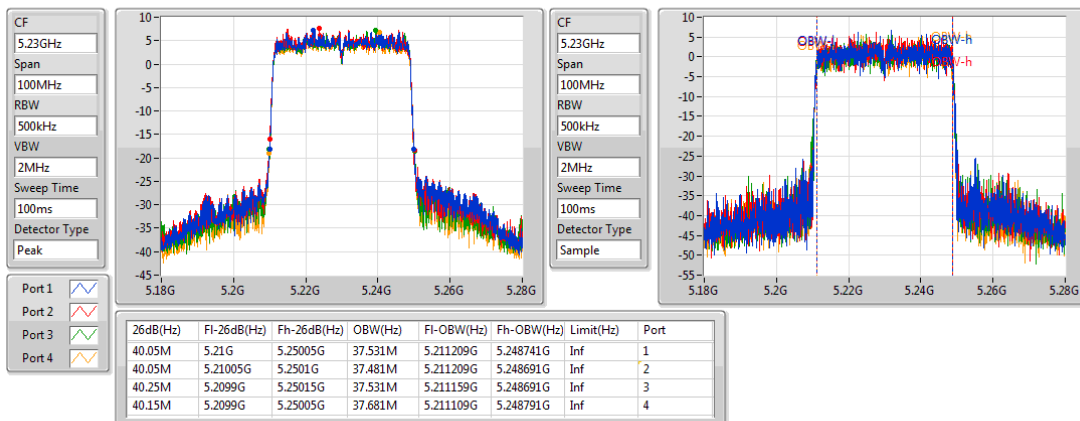


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

04/03/2019

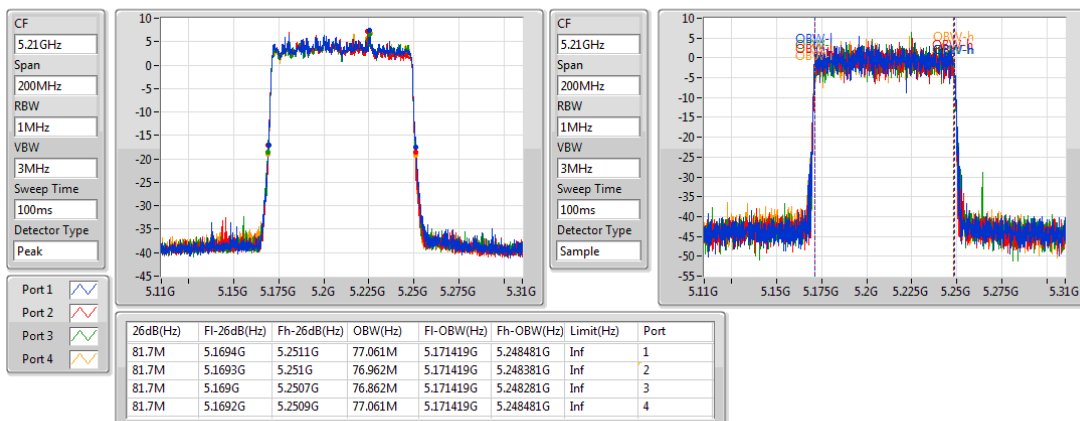


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

25/01/2019





EBW Result_Radio 1

Appendix B.25

For Non-beamforming / 4T4S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	45M	19.34M	19M3D1D	21.425M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.4M	37.631M	37M6D1D	40M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.8M	77.161M	77M2D1D	80.9M	76.962M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

Appendix B.25

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	18.991M	21.775M	18.966M	21.75M	18.966M	21.425M	18.916M
5200MHz	Pass	Inf	39.525M	19.1M	37.85M	19.125M	36.45M	19.15M	40.925M	19.125M
5240MHz	Pass	Inf	37.85M	19.19M	42M	19.19M	45M	19.34M	40.15M	19.09M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.25M	37.581M	40M	37.581M	40.15M	37.581M	40.25M	37.581M
5230MHz	Pass	Inf	40.3M	37.481M	40.1M	37.581M	40.4M	37.581M	40.2M	37.631M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	77.161M	80.9M	76.962M	81.8M	77.061M	81.6M	76.962M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

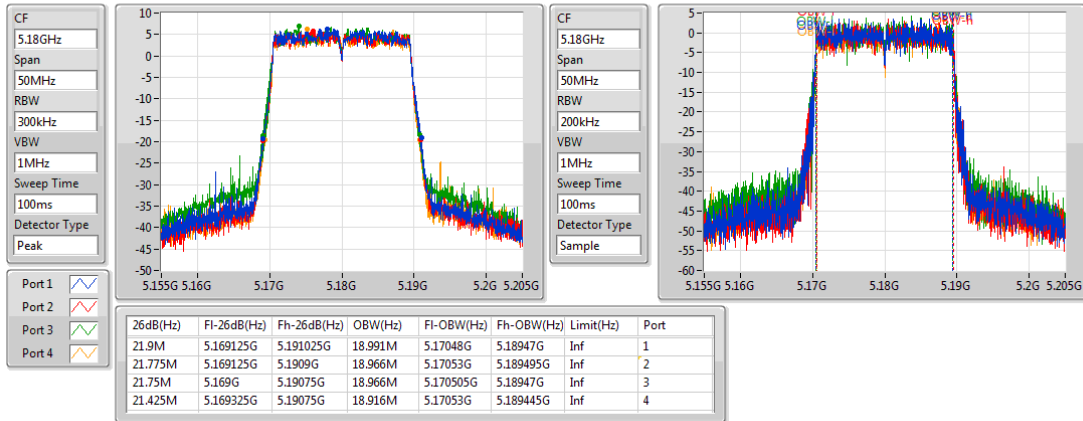
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

28/01/2019

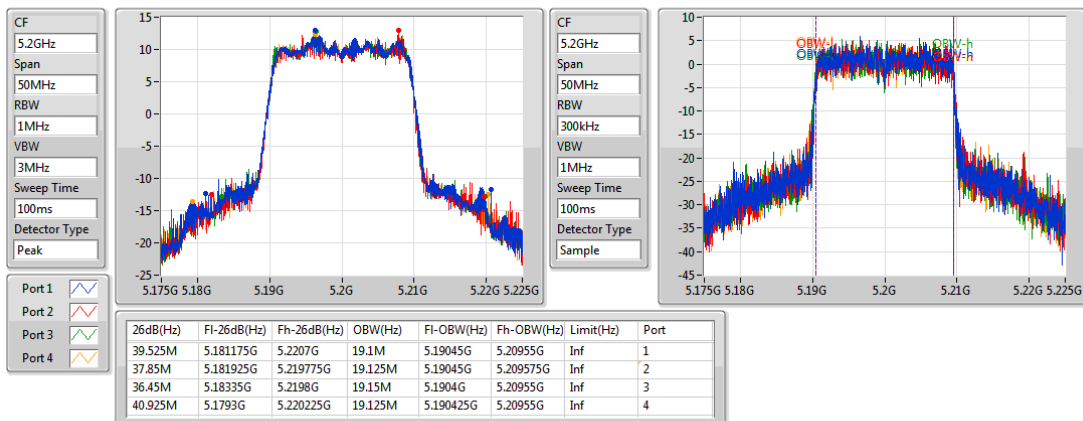


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

29/01/2019

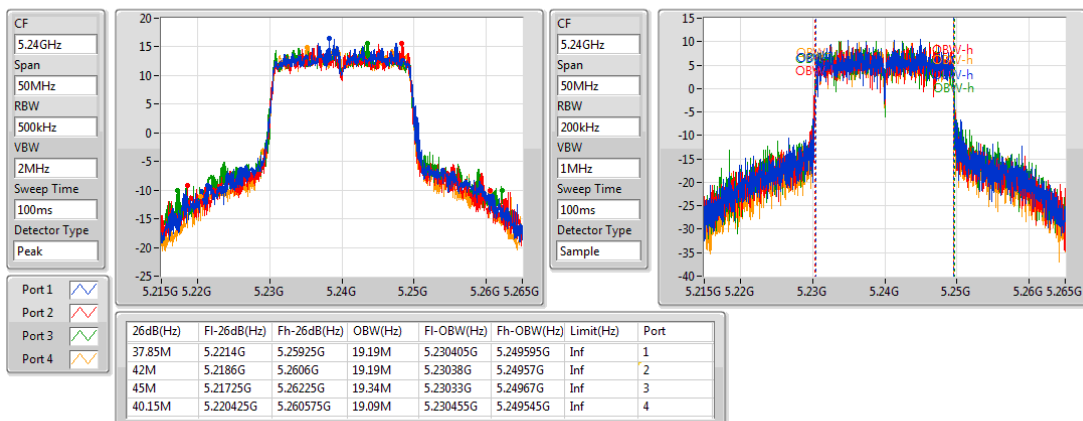


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

28/01/2019

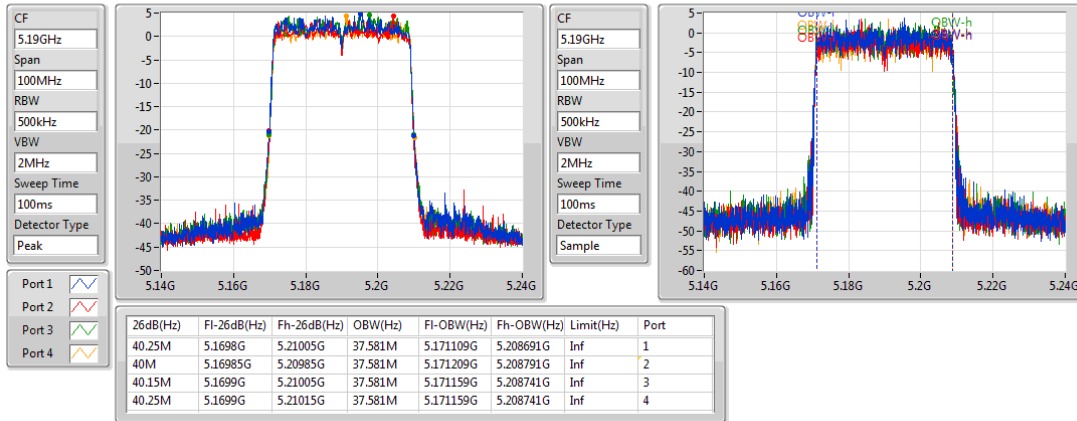


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

28/01/2019

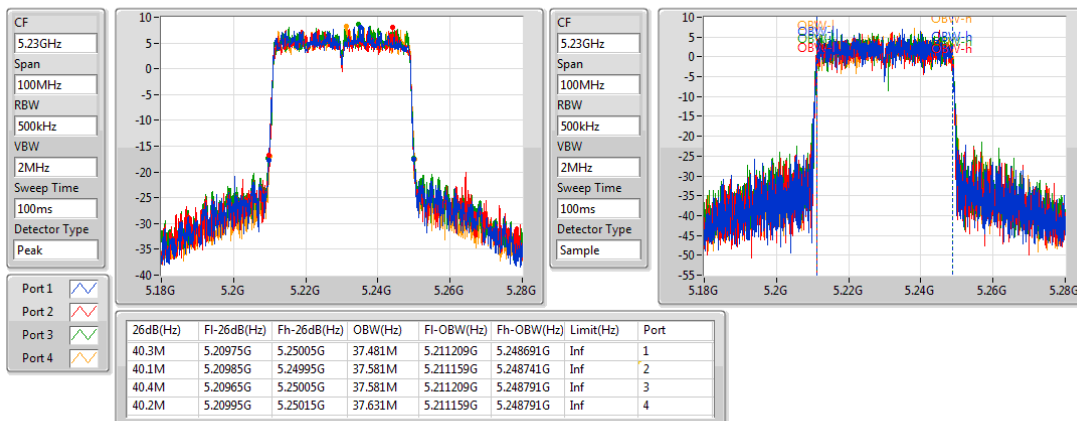


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

28/01/2019

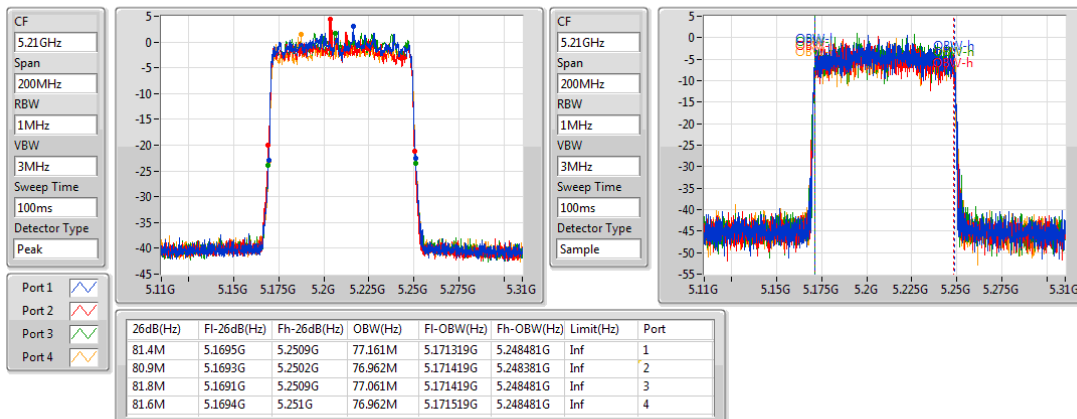


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

28/01/2019



Mode 3: (Ant. 11 Panel antenna / 8.7 dBi)
For Non-beamforming / 1T1S mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.525M	16.592M	16M6D1D	21.3M	16.517M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.775M	18.966M	19M0D1D	21.675M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	40M	37.581M	37M6D1D	39.9M	37.581M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.3M	77.061M	77M1D1D	81.3M	77.061M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.3M	16.517M
5200MHz	Pass	Inf	21.525M	16.567M
5240MHz	Pass	Inf	21.35M	16.592M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.675M	18.966M
5200MHz	Pass	Inf	21.7M	18.966M
5240MHz	Pass	Inf	21.775M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.581M
5230MHz	Pass	Inf	40M	37.581M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.3M	77.061M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

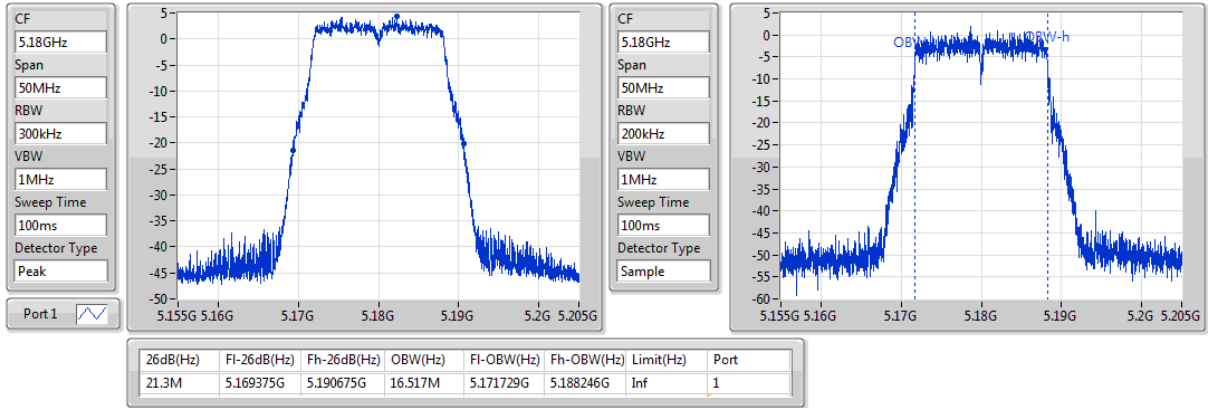
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

28/02/2019

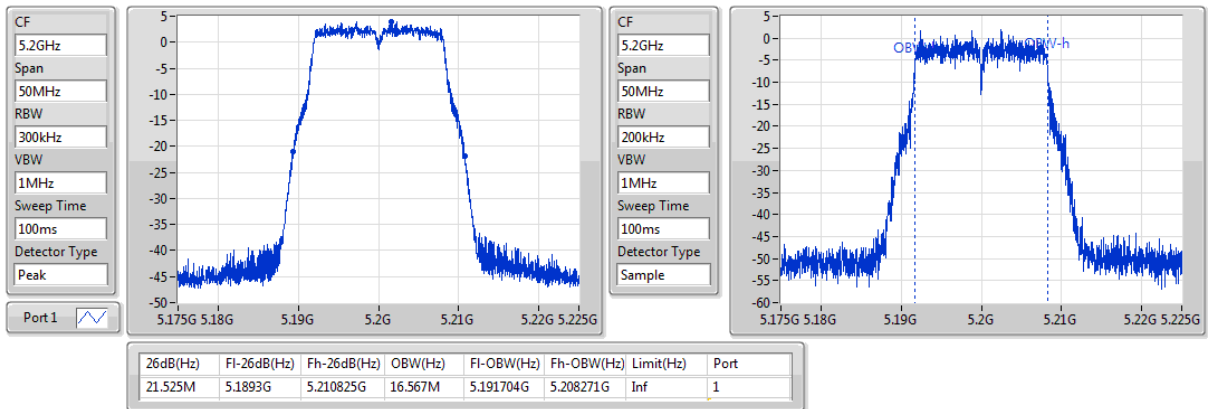


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

28/02/2019

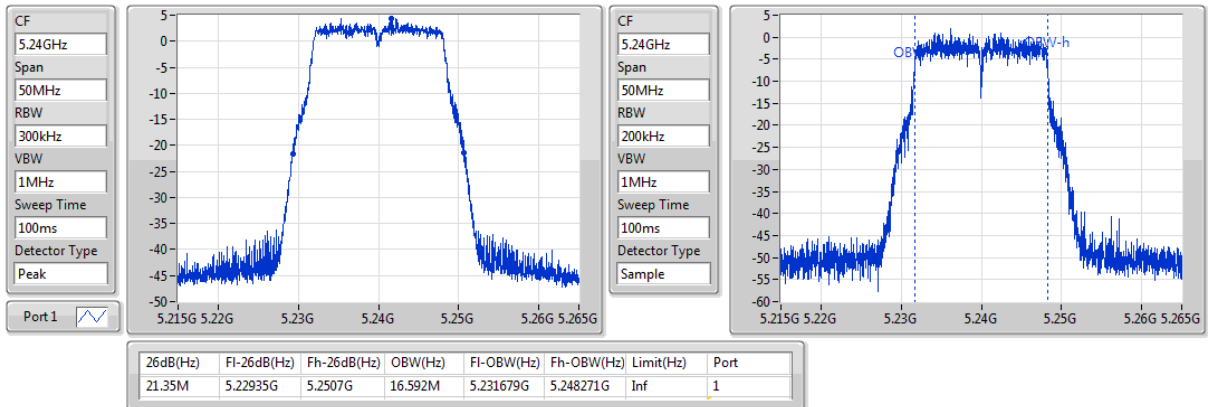


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

28/02/2019

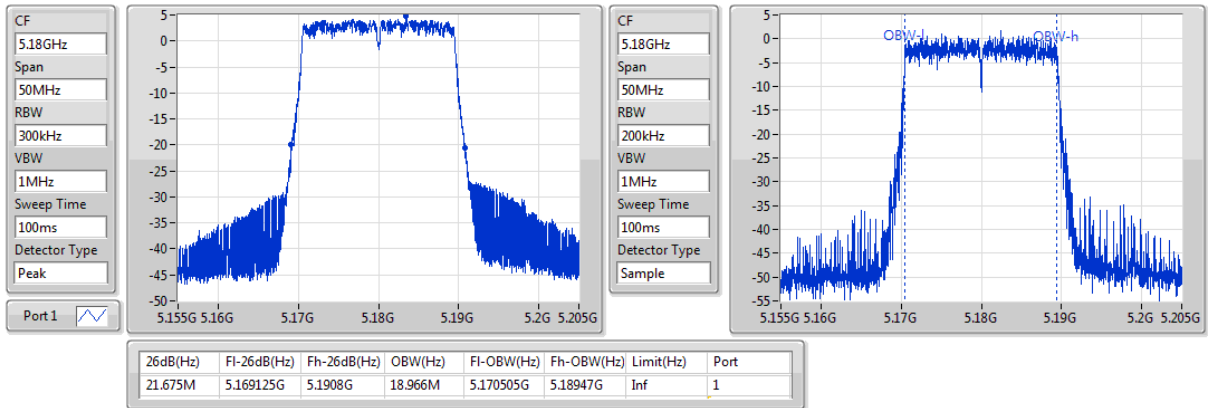


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

28/02/2019

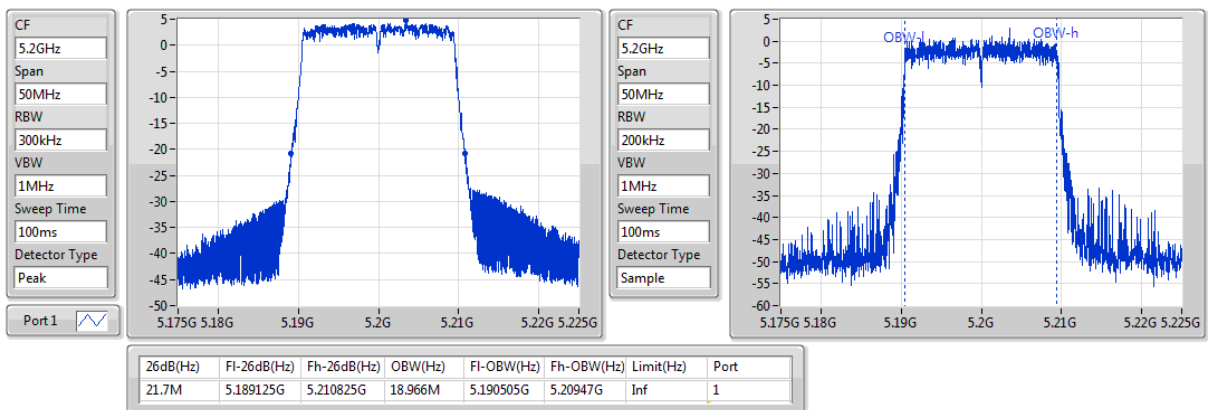


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

28/02/2019

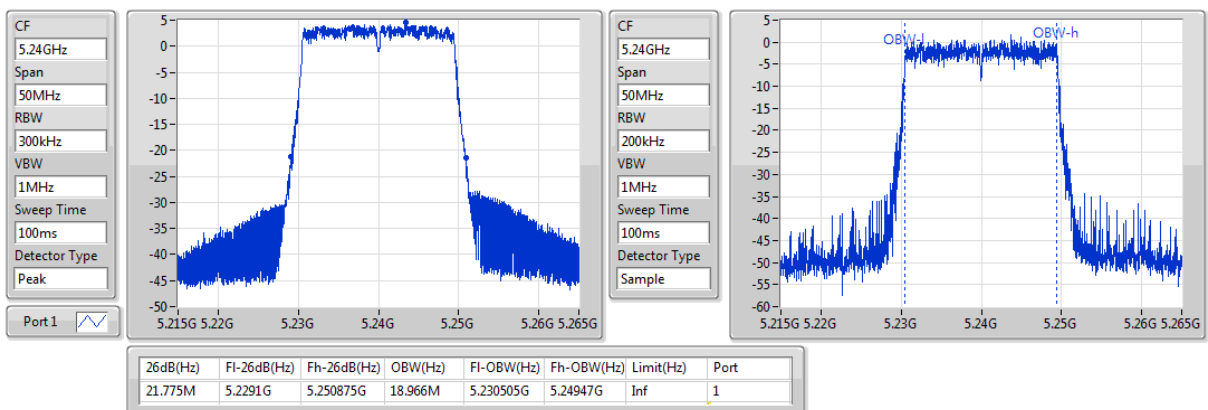


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

28/02/2019

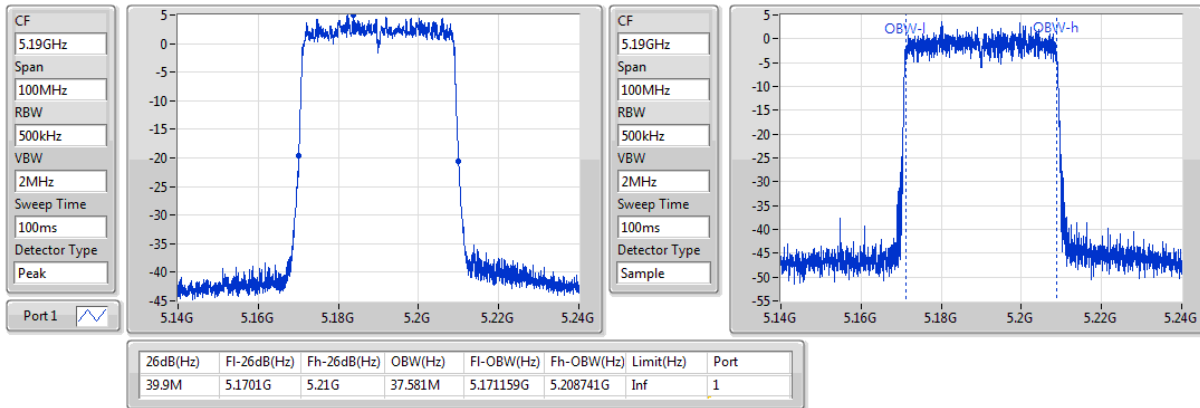


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

28/02/2019

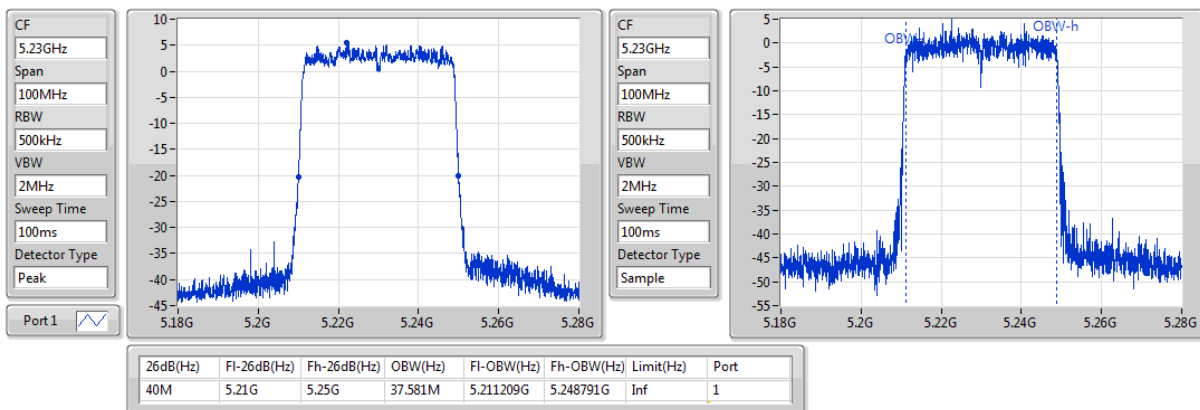


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

28/02/2019

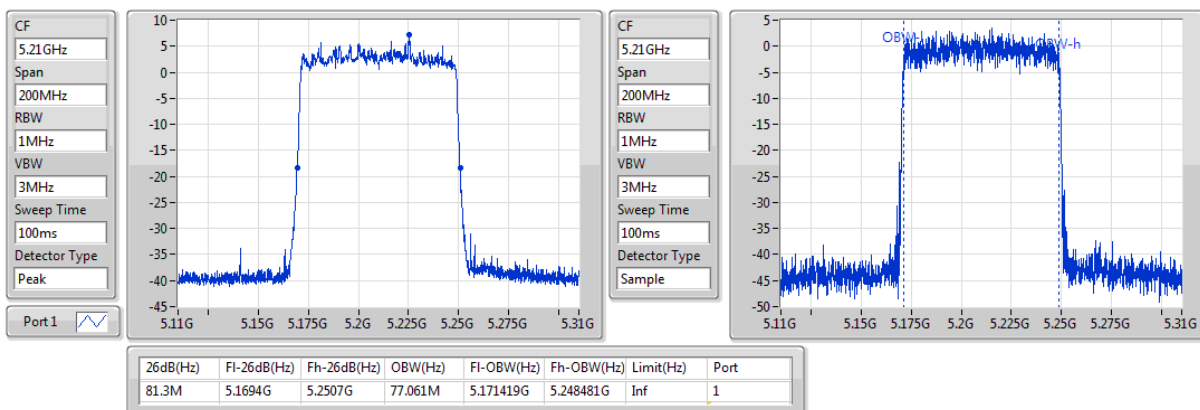


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

28/02/2019





EBW Result_Radio 1

Appendix B.27

For Non-beamforming / 2T2S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	22.075M	18.966M	19M0D1D	21.45M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.05M	37.531M	37M5D1D	39.95M	37.431M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.7M	76.762M	76M8D1D	81.6M	76.662M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

Appendix B.27

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.075M	18.941M	21.5M	18.941M
5200MHz	Pass	Inf	21.925M	18.941M	21.45M	18.966M
5240MHz	Pass	Inf	21.975M	18.941M	21.575M	18.966M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M	39.95M	37.531M
5230MHz	Pass	Inf	39.95M	37.531M	40.05M	37.431M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.762M	81.7M	76.662M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

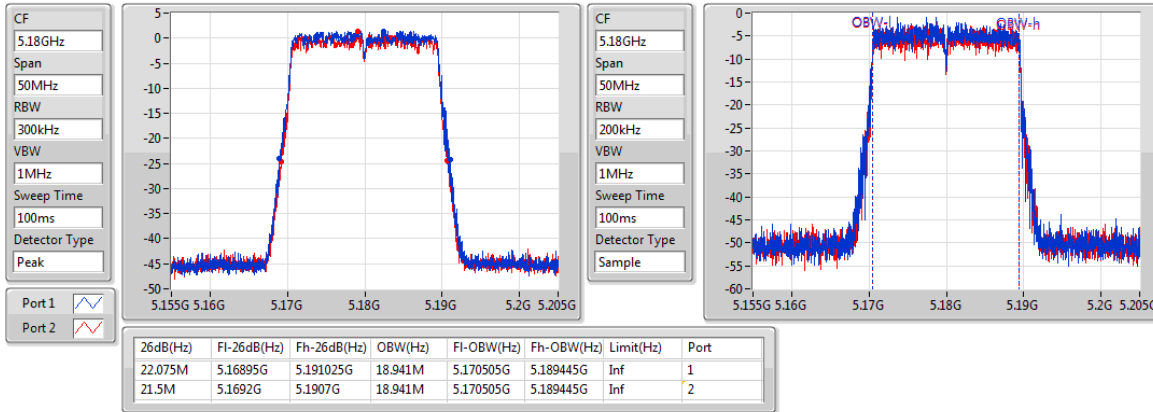
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

28/02/2019

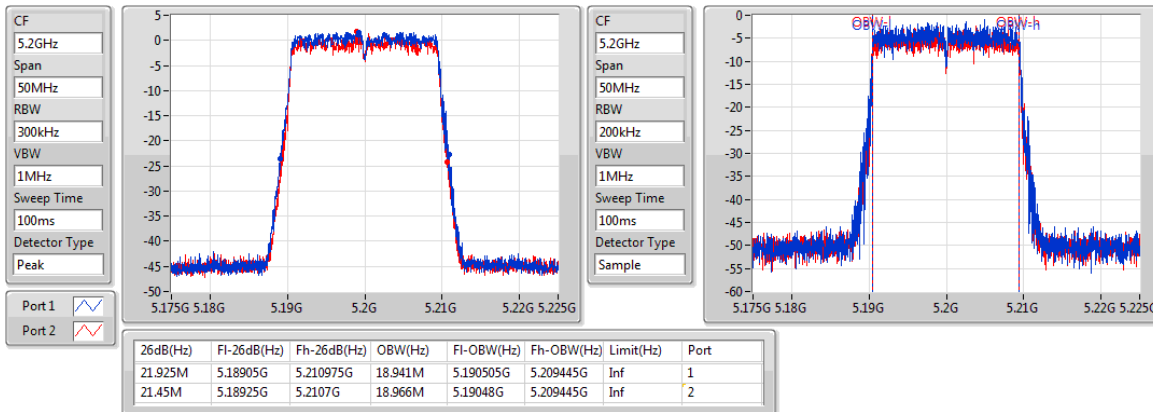


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

28/02/2019

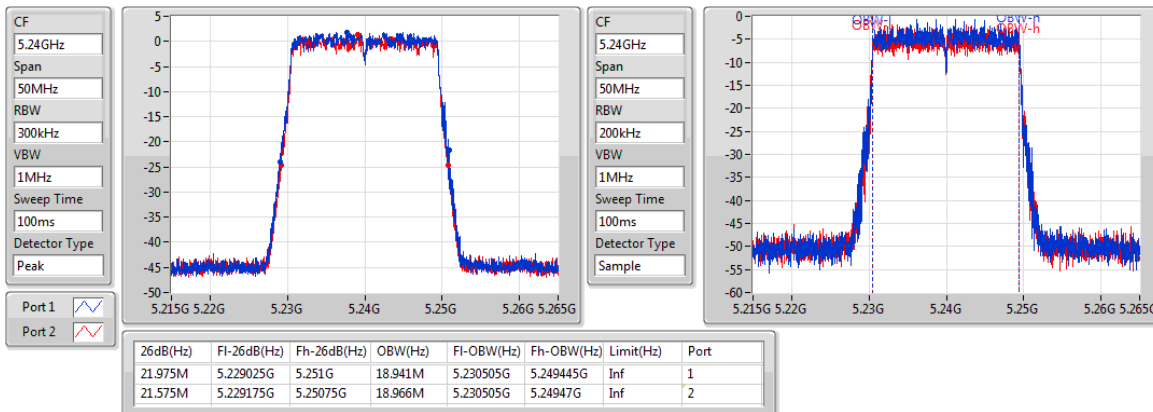


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

28/02/2019

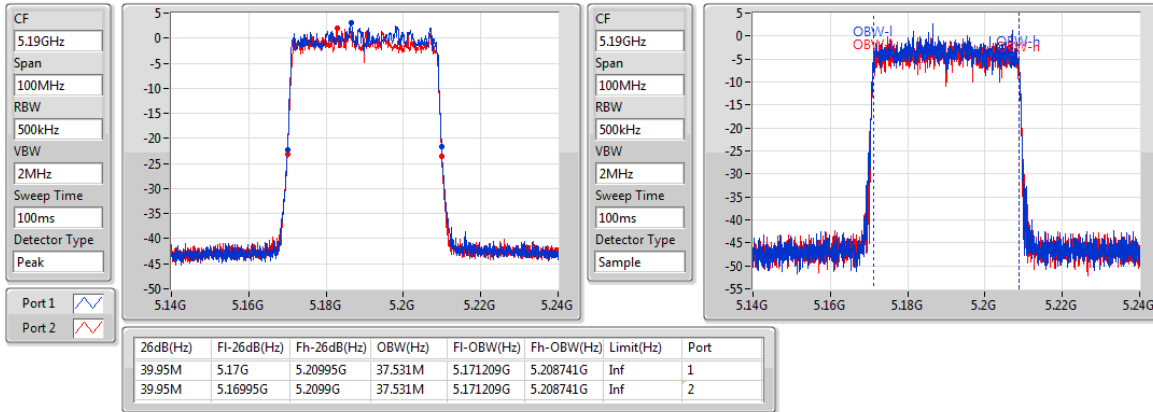


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

28/02/2019

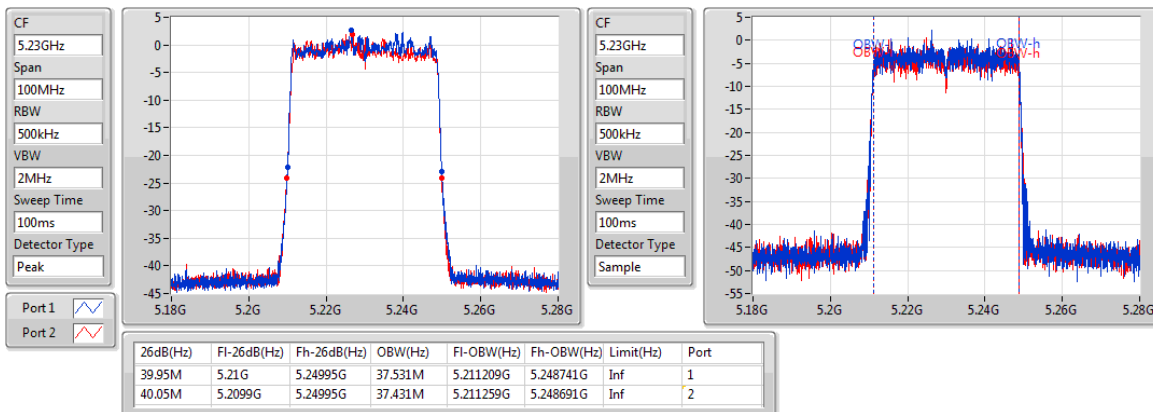


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

28/02/2019

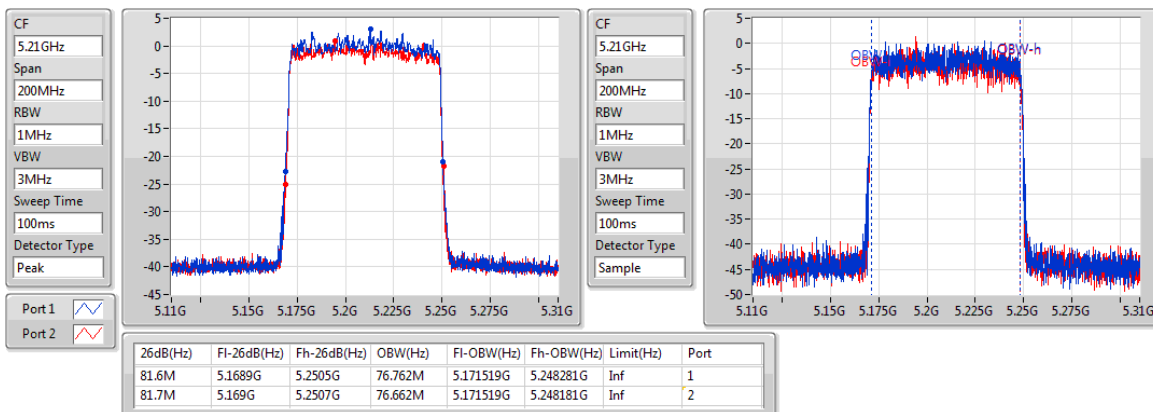


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

28/02/2019





EBW Result_Radio 1

Appendix B.28

For Non-beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.675M	16.642M	16M6D1D	21.425M	16.542M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.95M	18.991M	19M0D1D	21.425M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.581M	37M6D1D	39.9M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.4M	77.061M	77M1D1D	81M	76.962M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.525M	16.592M	21.5M	16.617M	21.475M	16.592M	21.575M	16.567M
5200MHz	Pass	Inf	21.475M	16.642M	21.65M	16.567M	21.625M	16.542M	21.55M	16.592M
5240MHz	Pass	Inf	21.5M	16.592M	21.65M	16.592M	21.675M	16.567M	21.425M	16.567M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.7M	18.966M	21.6M	18.966M	21.825M	18.941M	21.425M	18.941M
5200MHz	Pass	Inf	21.725M	18.941M	21.675M	18.991M	21.95M	18.941M	21.45M	18.941M
5240MHz	Pass	Inf	21.675M	18.966M	21.7M	18.966M	21.85M	18.941M	21.45M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.431M	40.1M	37.581M	40.1M	37.581M	39.95M	37.581M
5230MHz	Pass	Inf	40.15M	37.531M	40.1M	37.581M	39.95M	37.481M	40.2M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	77.061M	81.2M	76.962M	81M	77.061M	81.1M	77.061M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

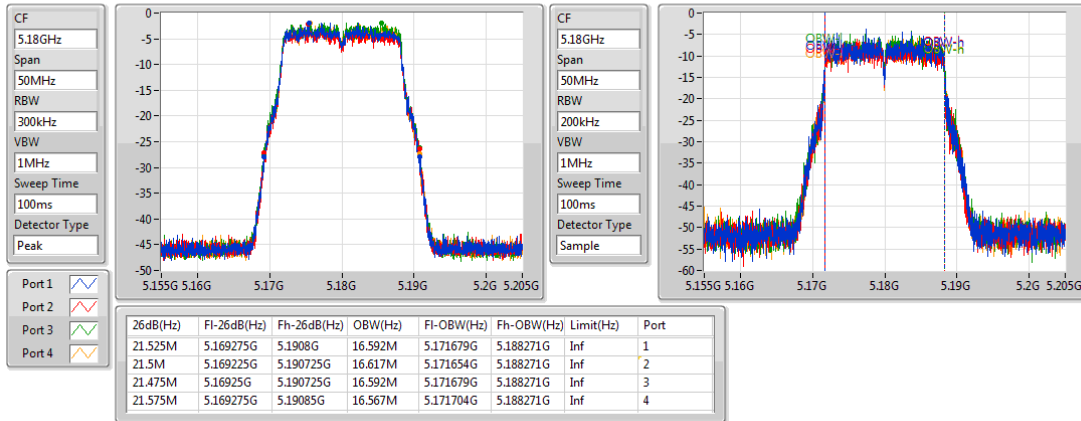
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

28/02/2019

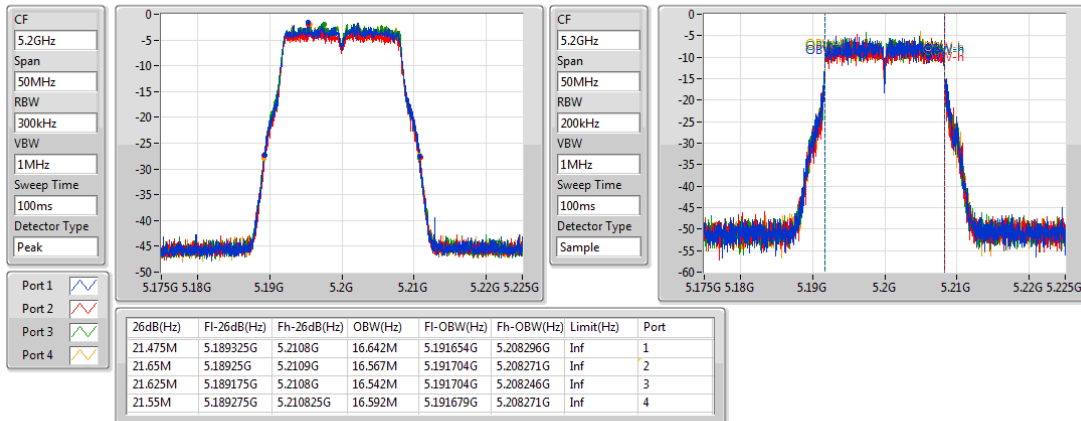


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

28/02/2019

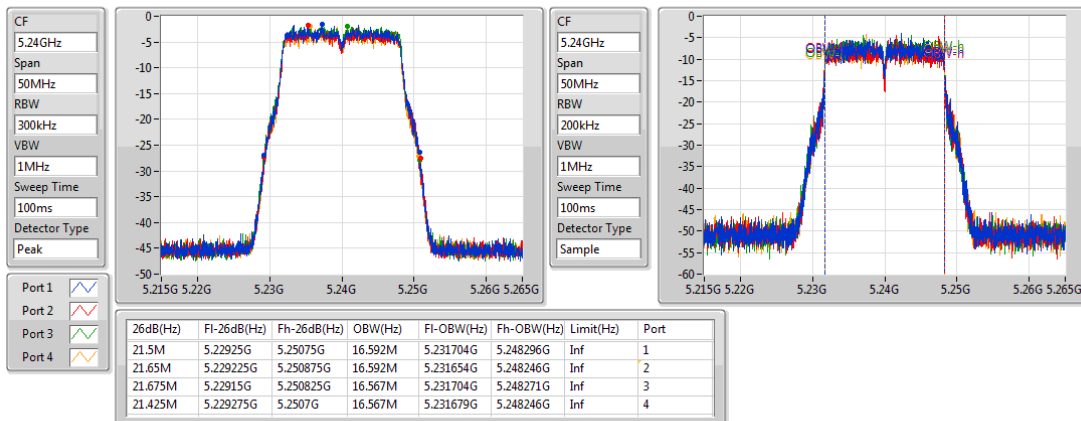


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

28/02/2019

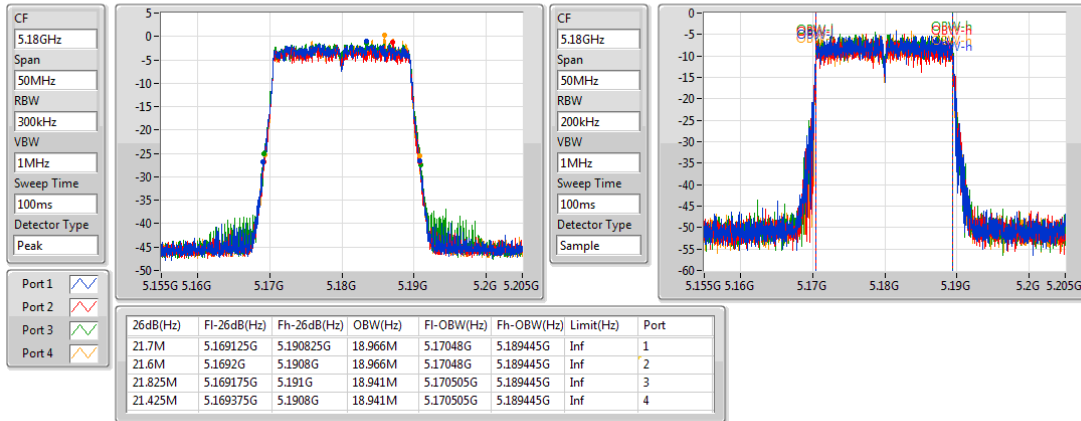


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

28/02/2019

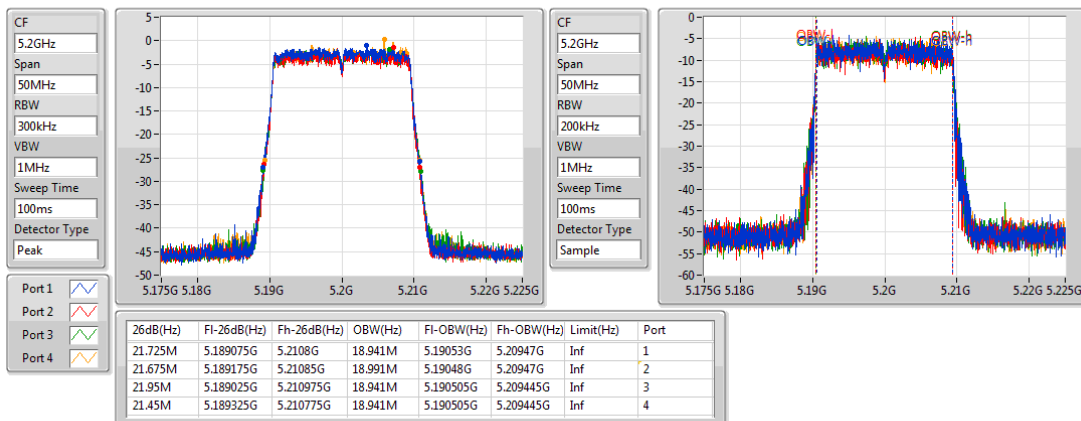


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

28/02/2019

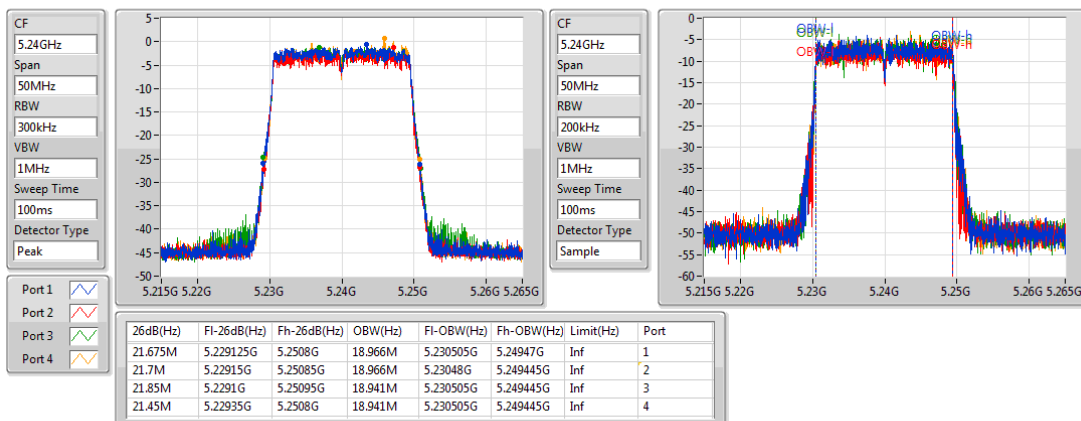


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

28/02/2019

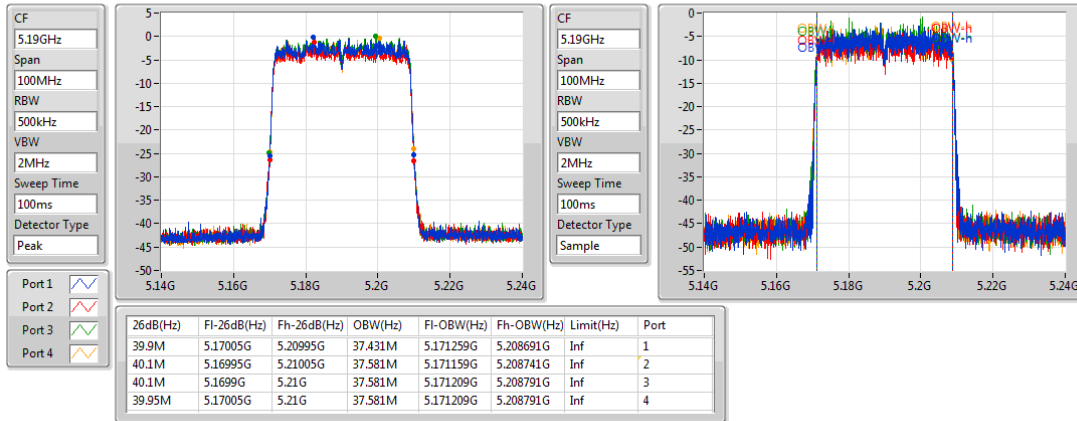


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

28/02/2019

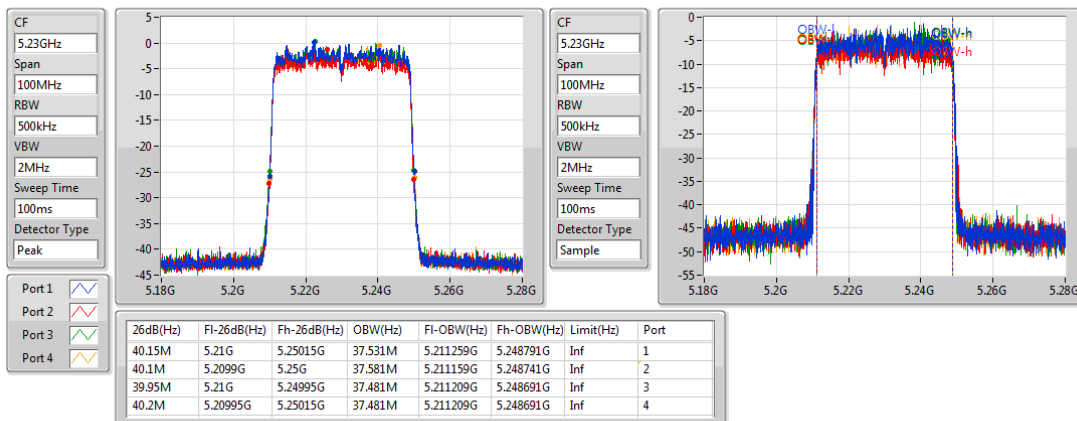


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

28/02/2019

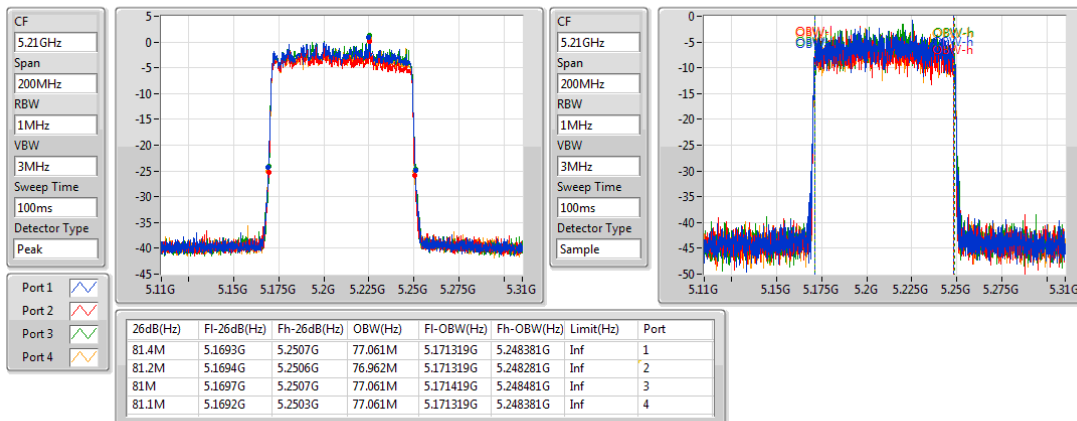


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

28/02/2019





EBW Result_Radio 1

Appendix B.29

For Beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.05M	18.991M	19M0D1D	21.425M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.681M	37M7D1D	39.95M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.5M	77.361M	77M4D1D	81M	77.161M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.775M	18.966M	21.6M	18.966M	21.75M	18.991M	21.425M	18.991M
5200MHz	Pass	Inf	21.725M	18.966M	21.725M	18.991M	21.975M	18.991M	21.5M	18.966M
5240MHz	Pass	Inf	21.7M	18.991M	21.8M	18.941M	22.05M	18.991M	21.575M	18.966M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.531M	40.15M	37.631M	40.2M	37.581M	40.1M	37.581M
5230MHz	Pass	Inf	39.95M	37.531M	40.1M	37.681M	40.05M	37.581M	40.15M	37.631M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	77.361M	81.4M	77.261M	81.4M	77.361M	81M	77.161M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

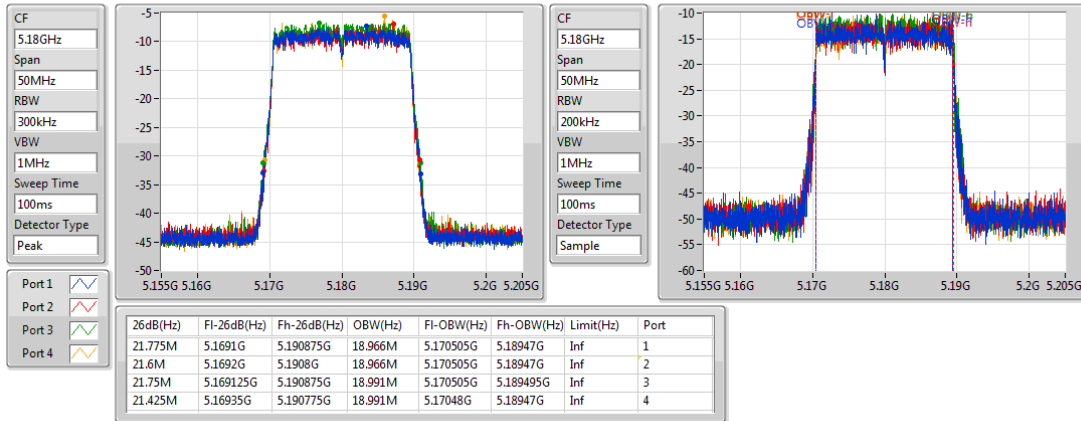
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

28/02/2019

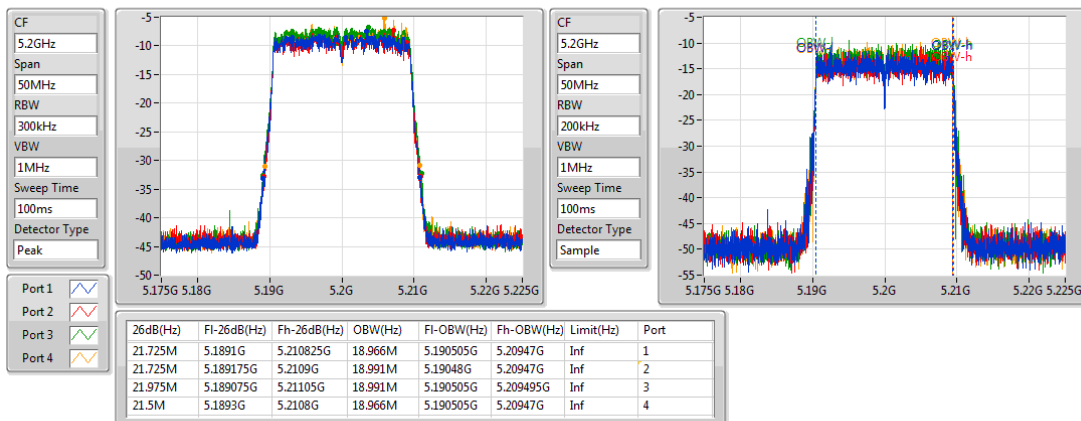


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

28/02/2019

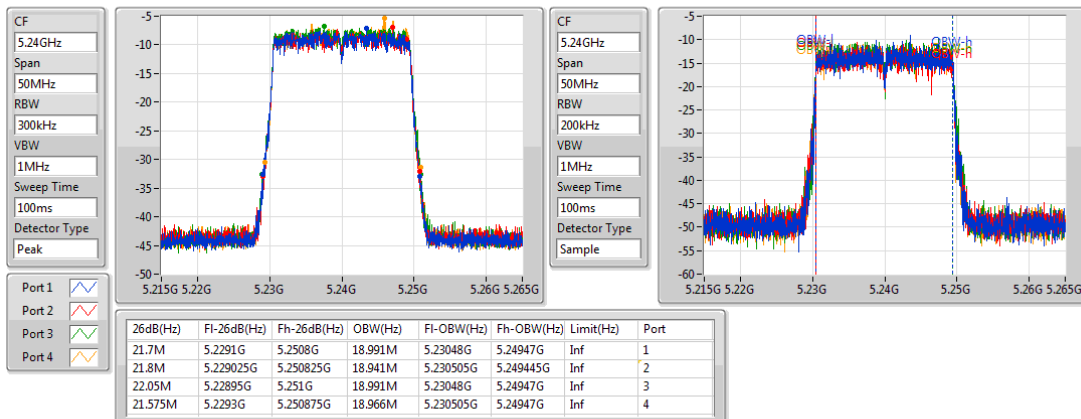


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

28/02/2019

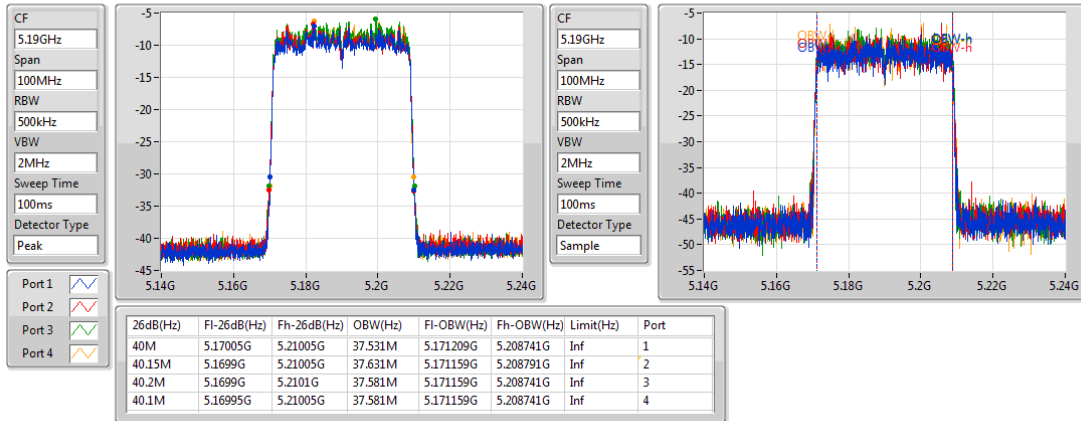


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

28/02/2019

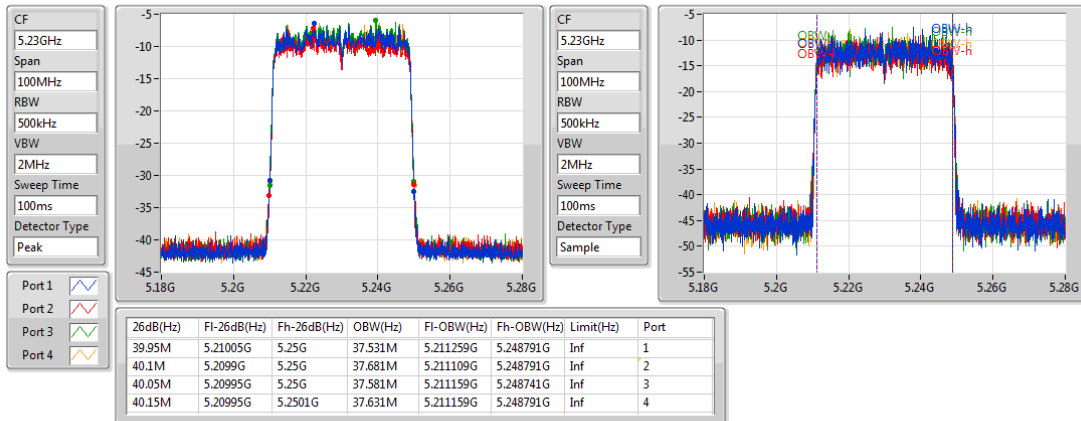


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

28/02/2019

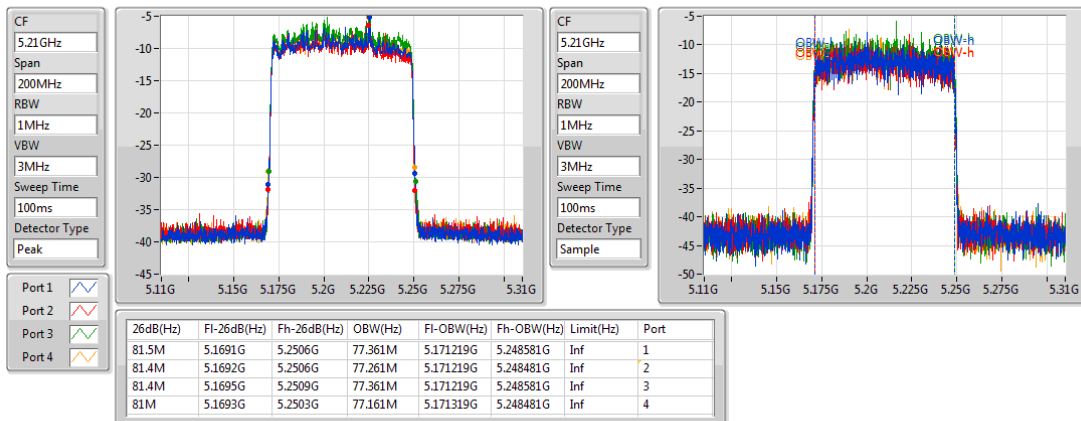


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

28/02/2019



**For Non-beamforming / 4T4S mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.925M	18.991M	19M0D1D	21.375M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.3M	37.581M	37M6D1D	39.95M	37.431M
802.11ax HEW80_Nss4,(MCS0)_4TX	82M	77.161M	77M2D1D	81M	76.862M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.875M	18.941M	21.8M	18.941M	21.775M	18.941M	21.375M	18.916M
5200MHz	Pass	Inf	21.725M	18.991M	21.775M	18.941M	21.8M	18.941M	21.4M	18.941M
5240MHz	Pass	Inf	21.925M	18.966M	21.8M	18.991M	21.75M	18.916M	21.45M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.2M	37.431M	40.1M	37.481M	40.1M	37.531M	40.3M	37.481M
5230MHz	Pass	Inf	40.15M	37.481M	40.25M	37.531M	39.95M	37.531M	40.2M	37.581M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.962M	81M	77.161M	81.7M	76.862M	82M	77.061M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

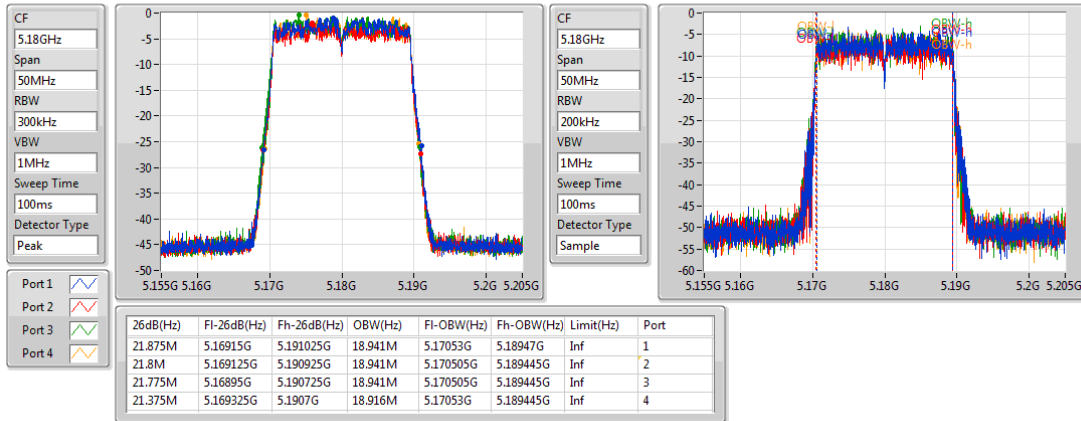
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

28/02/2019

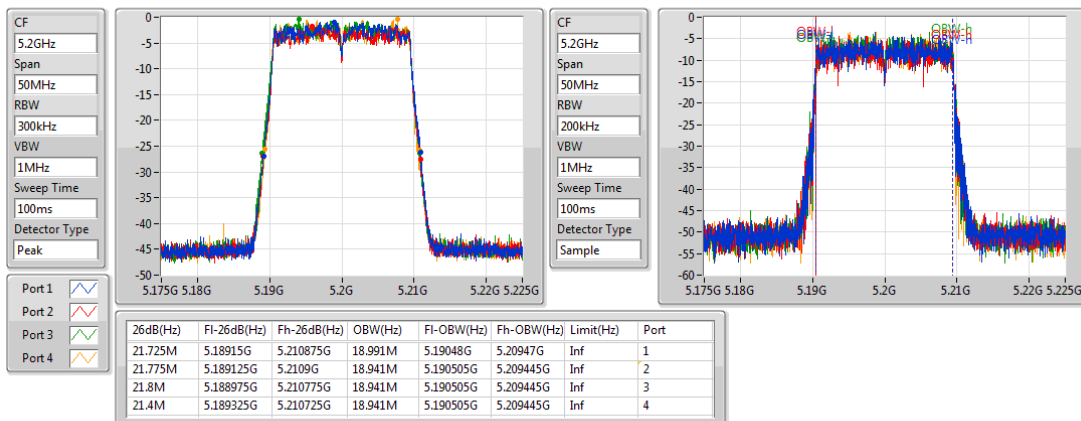


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

28/02/2019

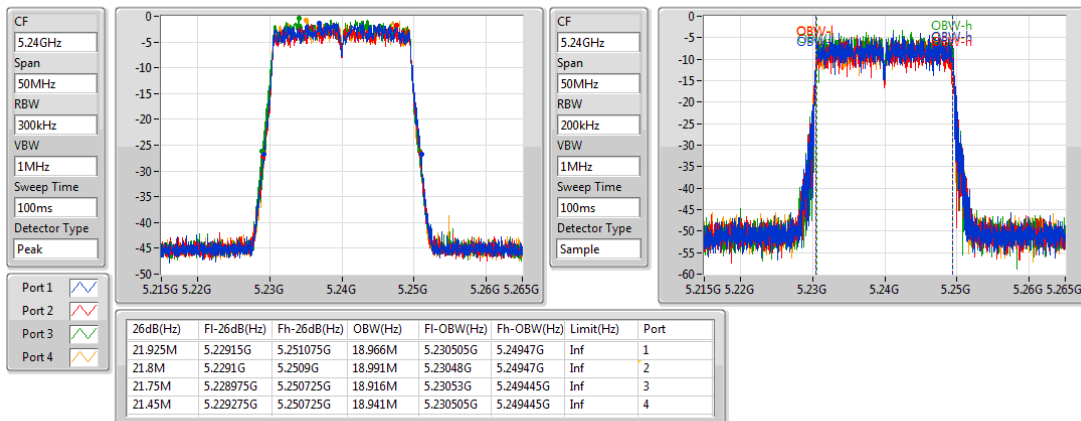


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

28/02/2019

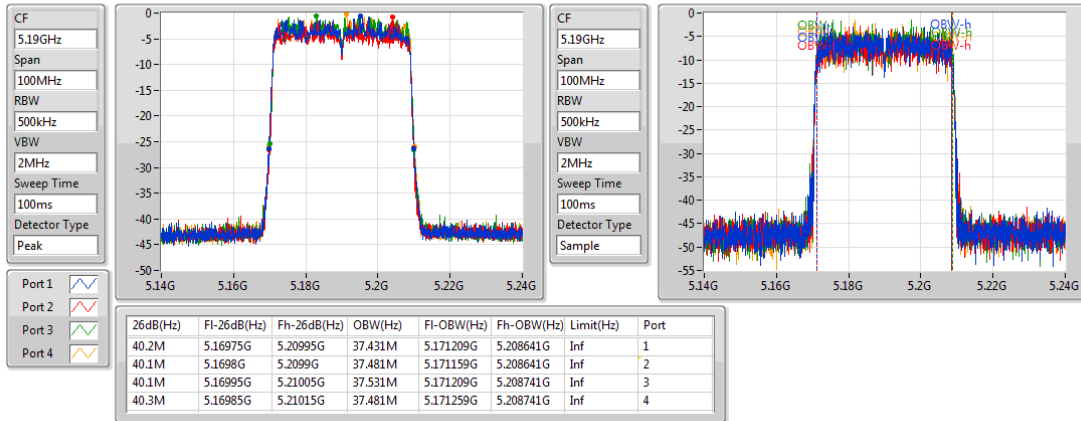


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

28/02/2019

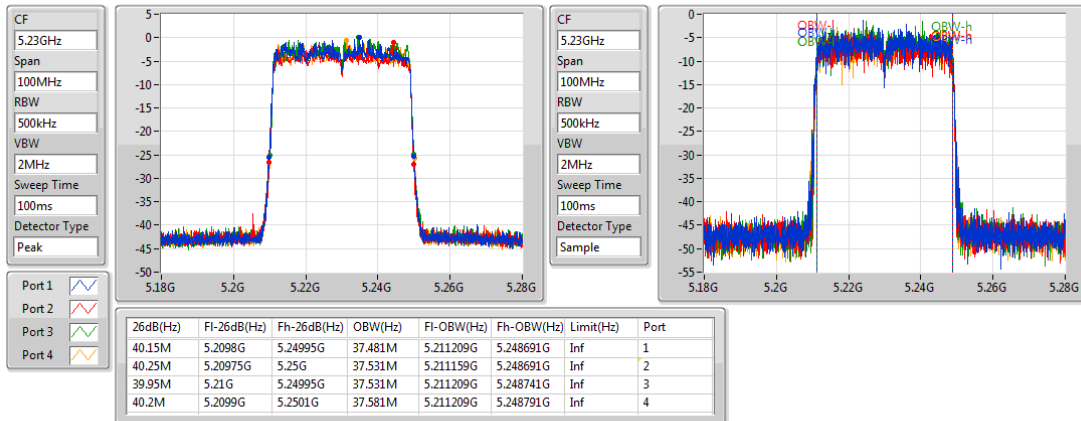


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

28/02/2019

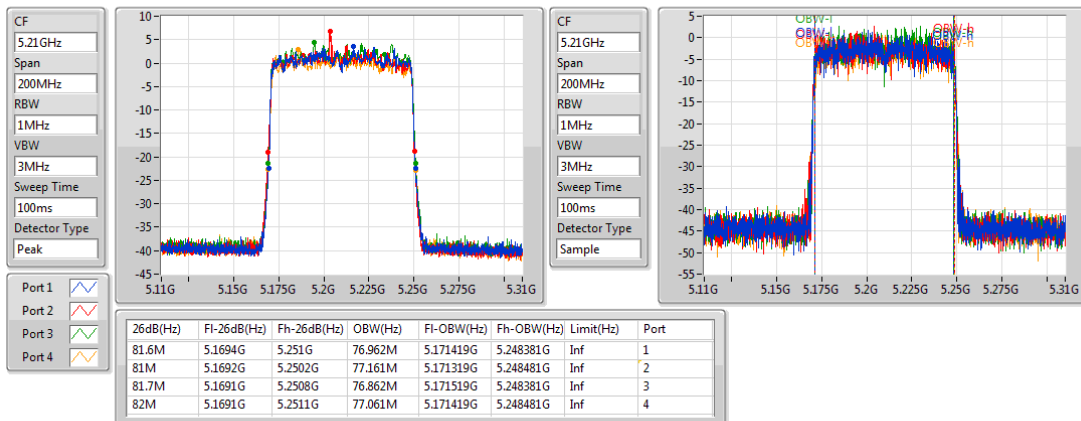


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

11/02/2019



For Radio 2:

For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 4:

Mode 1: (Ant. 5 Panel antenna / 3 dBi)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.075M	17.591M	17M6D1D	21.75M	16.592M
802.11ax HEW20_Nss1,(MCS0)_1TX	41.925M	20.34M	20M3D1D	23.875M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	72M	37.831M	37M8D1D	40.05M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.7M	76.962M	77M0D1D	81.7M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.35M	26.787M	26M8D1D	16.3M	19.965M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.975M	34.783M	34M8D1D	18.7M	28.961M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.5M	58.471M	58M5D1D	37.5M	55.422M
802.11ax HEW80_Nss1,(MCS0)_1TX	75.8M	77.861M	77M9D1D	75.8M	77.861M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.75M	16.592M
5200MHz	Pass	Inf	43.075M	17.591M
5240MHz	Pass	Inf	38.8M	16.792M
5745MHz	Pass	500k	16.3M	19.965M
5785MHz	Pass	500k	16.35M	26.287M
5825MHz	Pass	500k	16.3M	26.787M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	23.875M	18.966M
5200MHz	Pass	Inf	41.925M	20.34M
5240MHz	Pass	Inf	40.7M	19.14M
5745MHz	Pass	500k	18.725M	28.961M
5785MHz	Pass	500k	18.7M	34.783M
5825MHz	Pass	500k	18.975M	34.283M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.05M	37.531M
5230MHz	Pass	Inf	72M	37.831M
5755MHz	Pass	500k	37.5M	55.422M
5795MHz	Pass	500k	37.5M	58.471M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.7M	76.962M
5775MHz	Pass	500k	75.8M	77.861M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

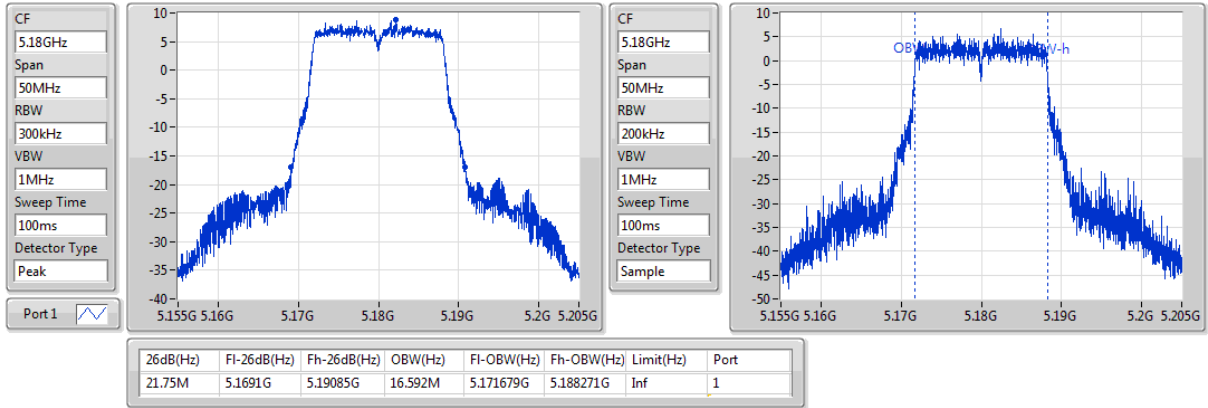
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

17/02/2019

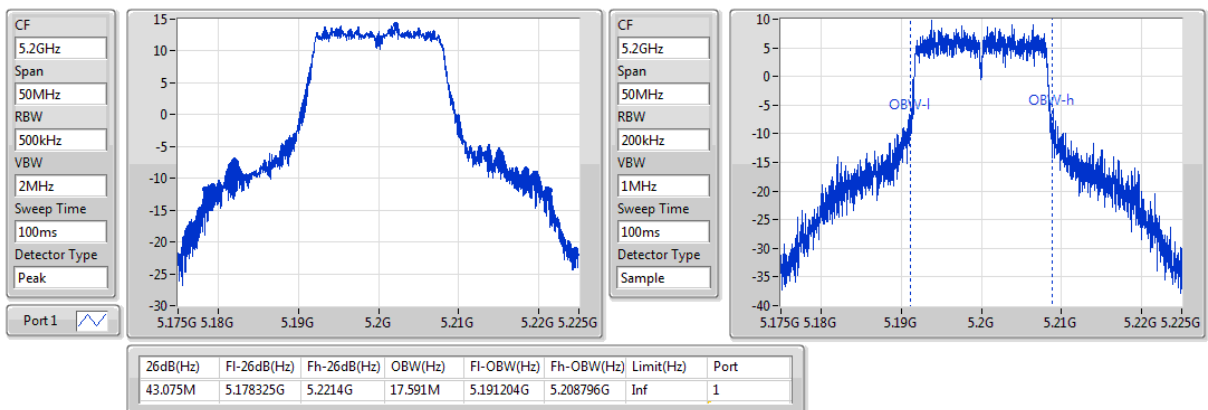


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

17/02/2019

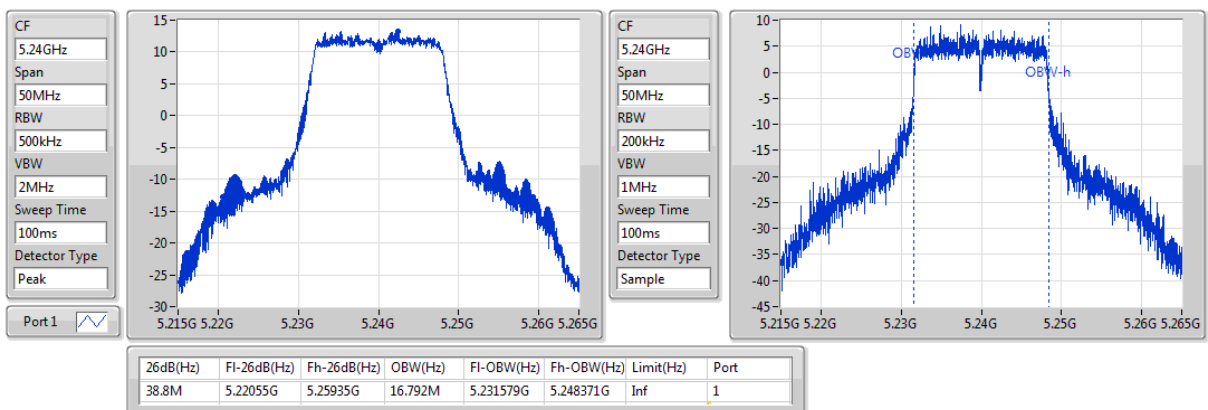


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

17/02/2019

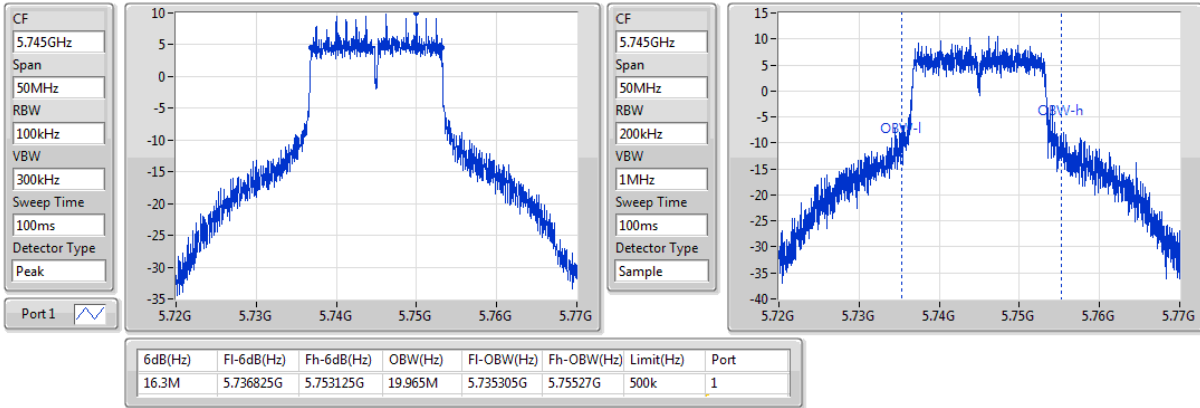


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

17/02/2019

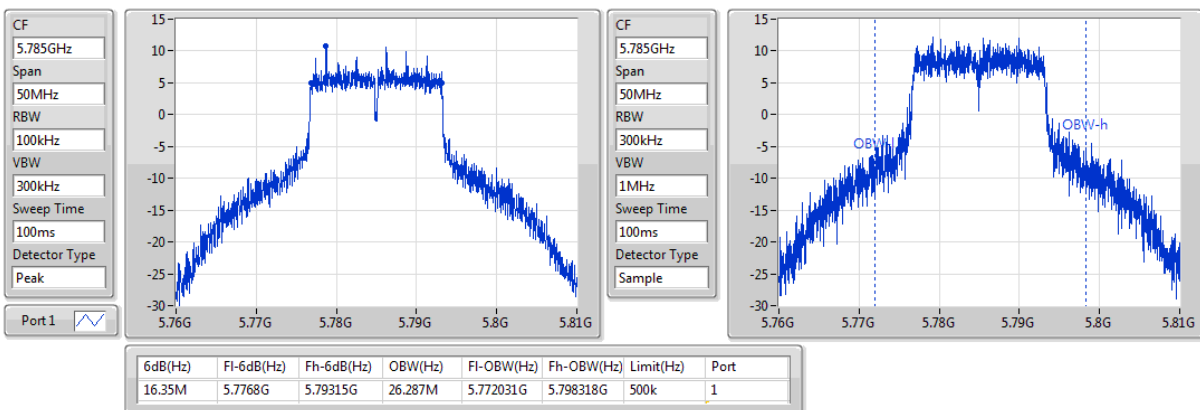


802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

17/02/2019

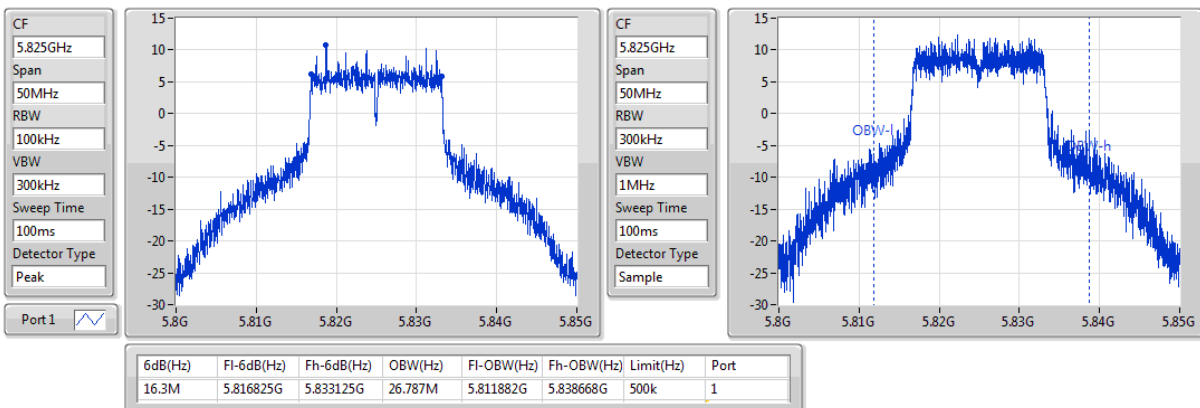


802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

17/02/2019

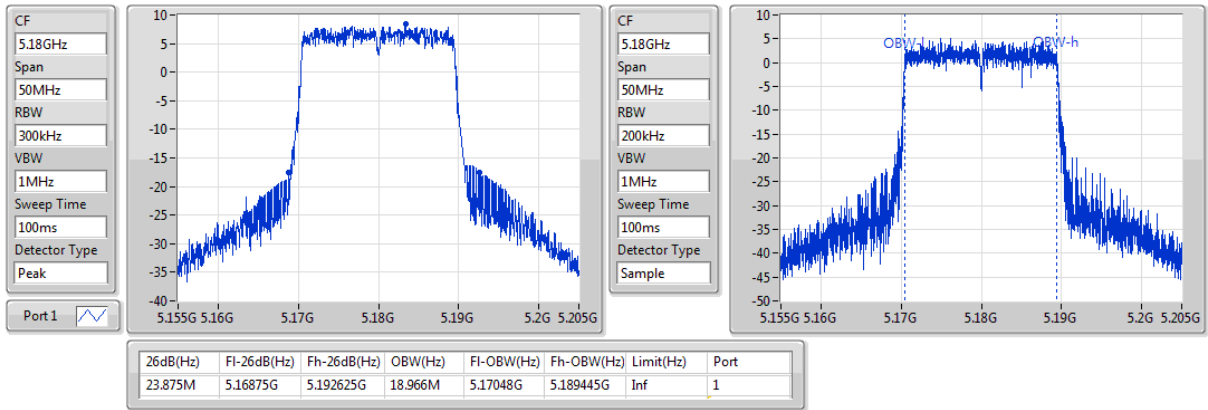


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

17/02/2019

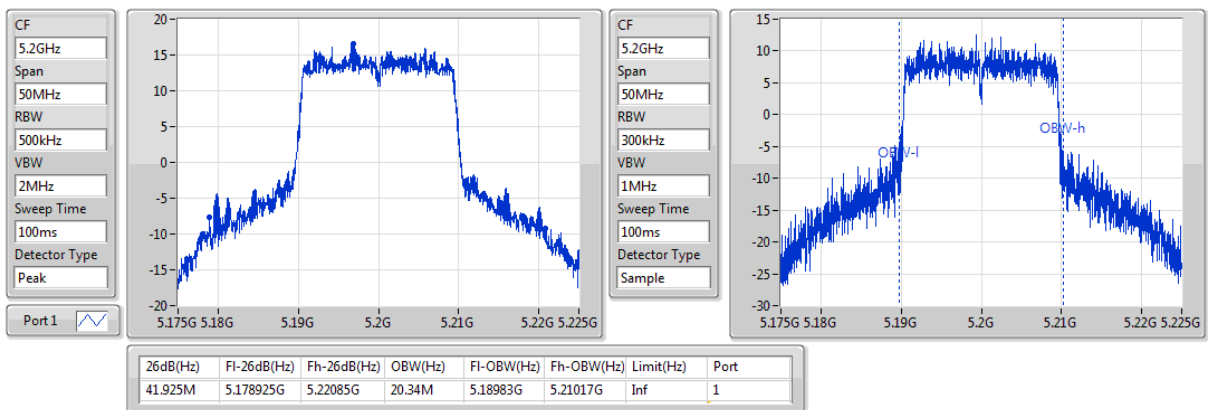


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

17/02/2019

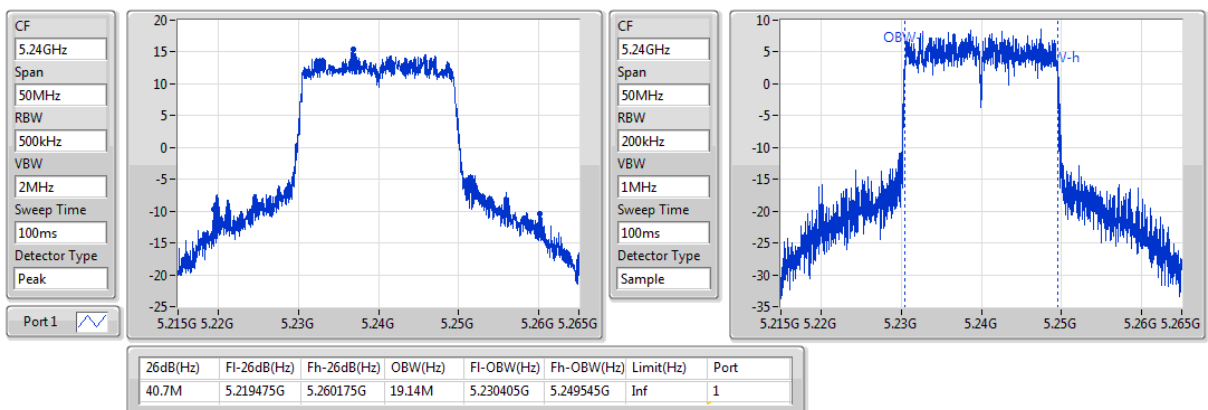


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

17/02/2019

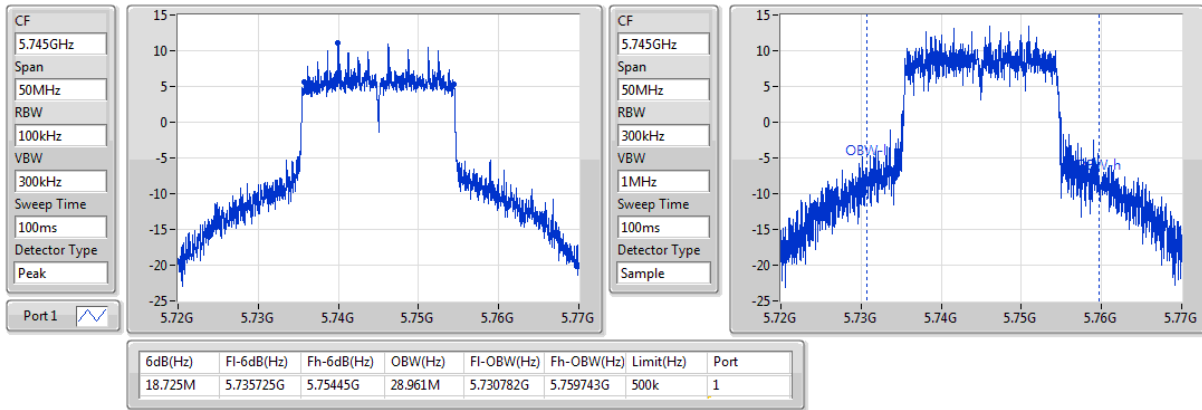


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

17/02/2019

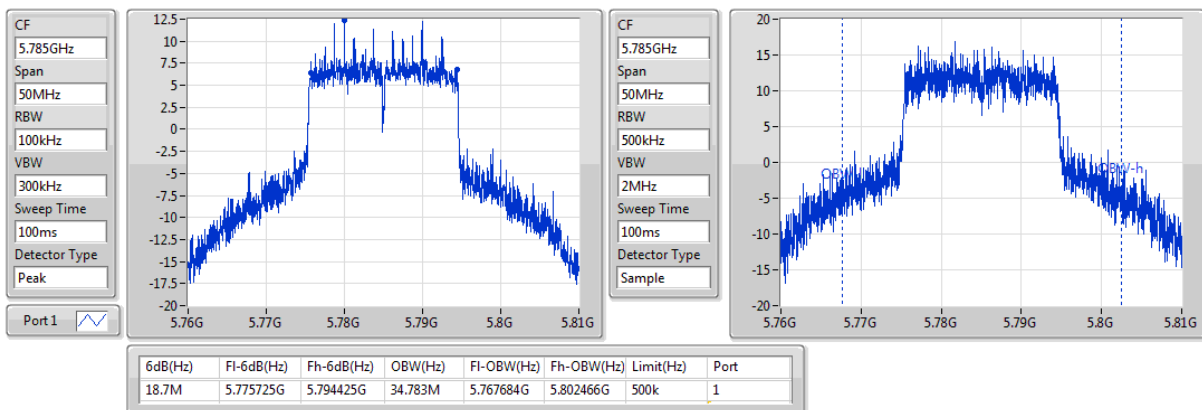


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

17/02/2019

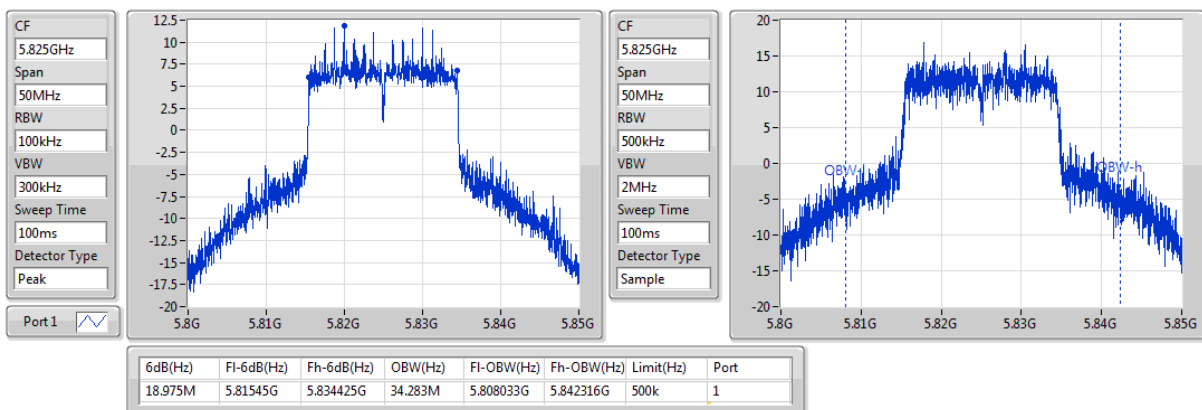


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

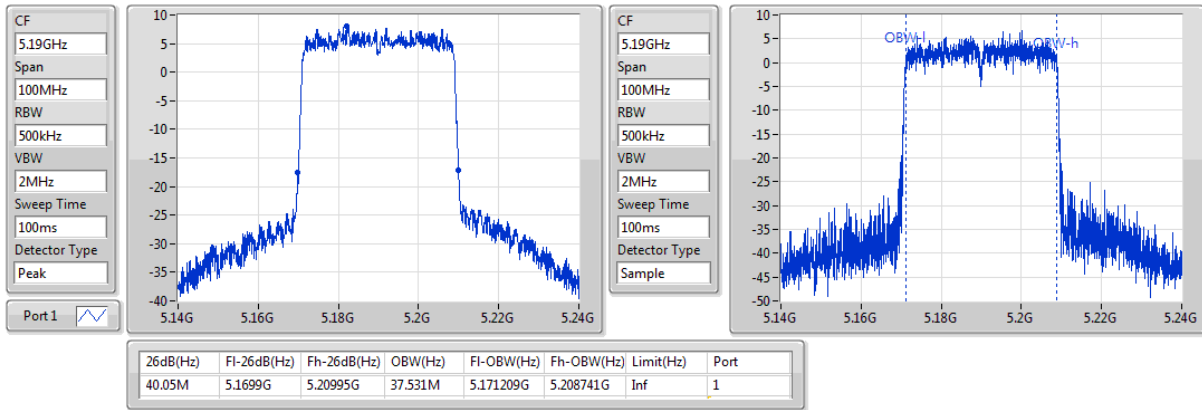
5825MHz

17/02/2019

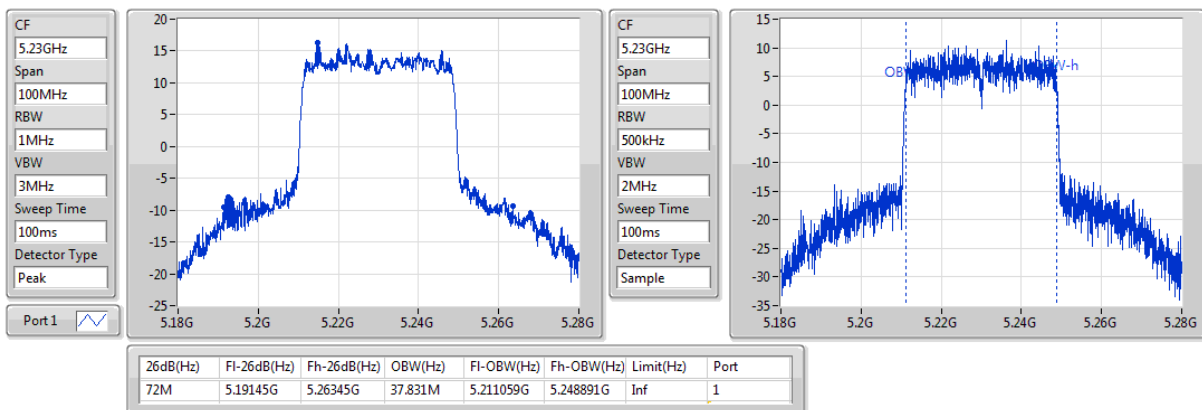


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5190MHz

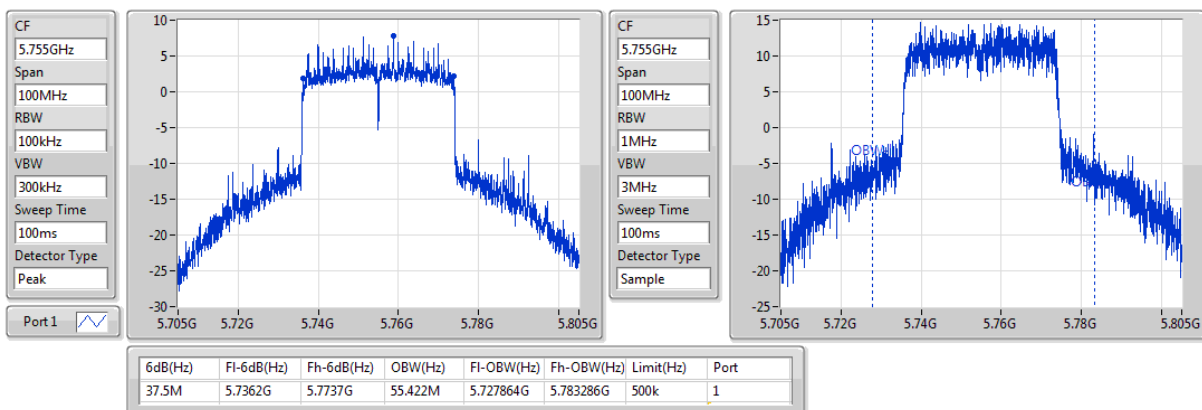
17/02/2019


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5230MHz

17/02/2019


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5755MHz

17/02/2019

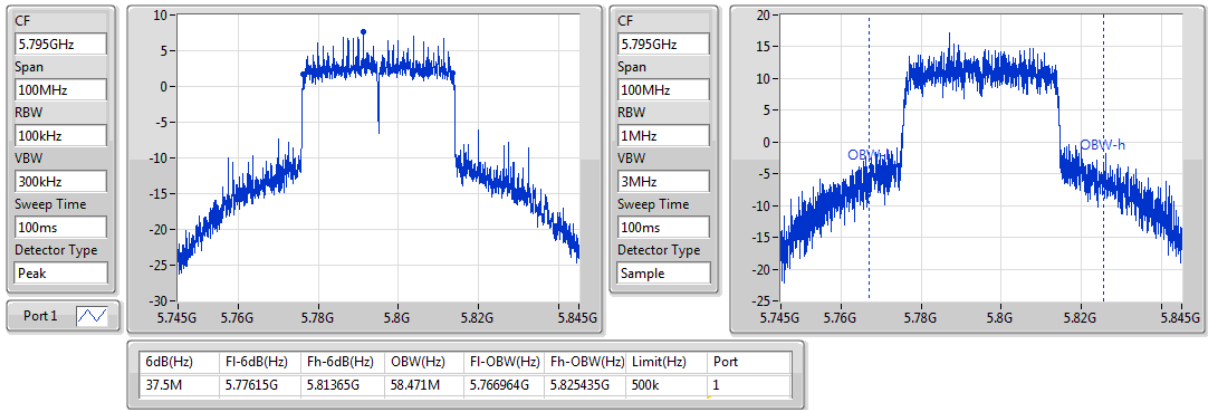


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

17/02/2019

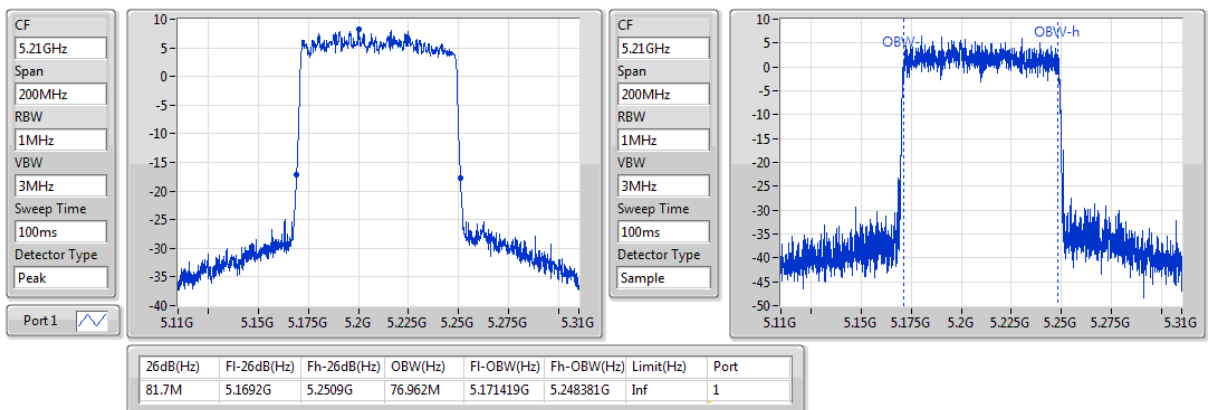


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

17/02/2019

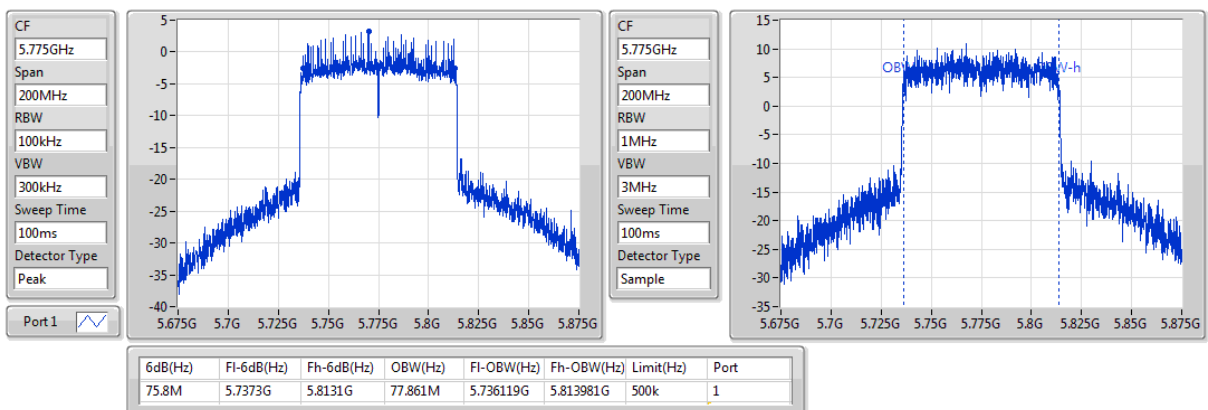


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

17/02/2019





EBW Result_Radio 2

Appendix B.32

For Non-beamforming / 2T2S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	37.35M	19.065M	19M1D1D	21.55M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	49.45M	37.731M	37M7D1D	39.95M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.7M	77.061M	77M1D1D	81.4M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.625M	35.782M	35M8D1D	18.5M	25.962M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.6M	66.817M	66M8D1D	35.95M	38.381M
802.11ax HEW80_Nss2,(MCS0)_2TX	76.2M	77.261M	77M3D1D	75.9M	77.061M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 2

Appendix B.32

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.1M	18.941M	21.55M	18.941M
5200MHz	Pass	Inf	34.9M	19.04M	36.025M	19.065M
5240MHz	Pass	Inf	36.175M	19.04M	37.35M	19.065M
5745MHz	Pass	500k	18.6M	29.11M	18.625M	25.962M
5785MHz	Pass	500k	18.6M	35.782M	18.6M	29.835M
5825MHz	Pass	500k	18.5M	34.733M	18.525M	29.96M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M	40.05M	37.481M
5230MHz	Pass	Inf	49.45M	37.731M	42.5M	37.681M
5755MHz	Pass	500k	36.2M	50.775M	37.6M	38.381M
5795MHz	Pass	500k	35.95M	66.817M	37.6M	49.325M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.7M	76.762M	81.4M	77.061M
5775MHz	Pass	500k	76.2M	77.261M	75.9M	77.061M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

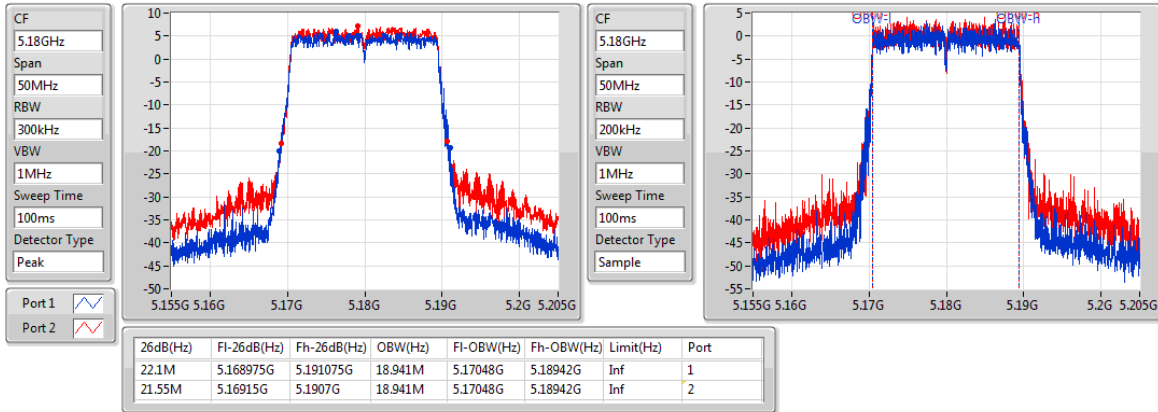
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

17/02/2019

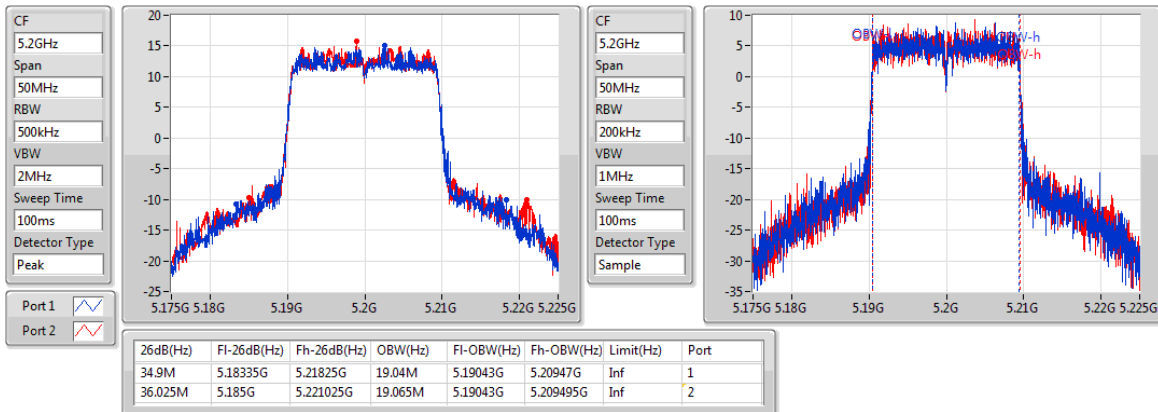


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

17/02/2019

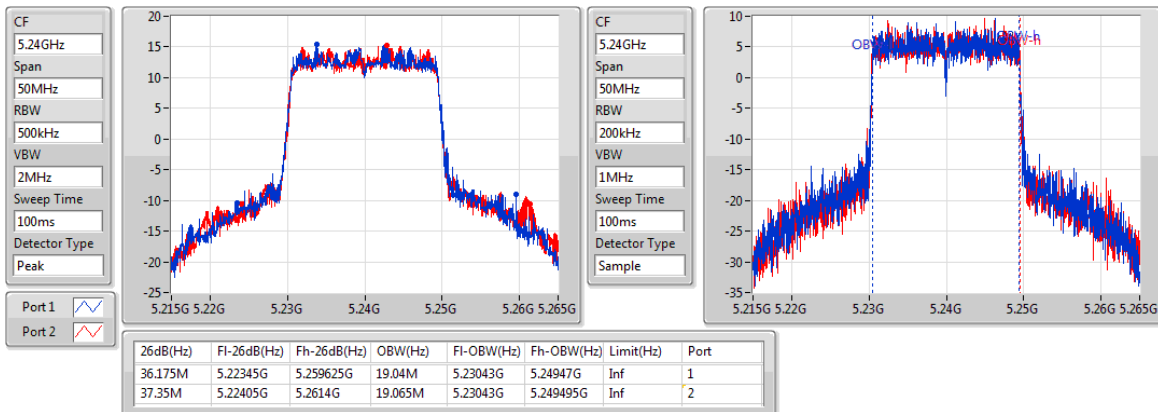


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

17/02/2019

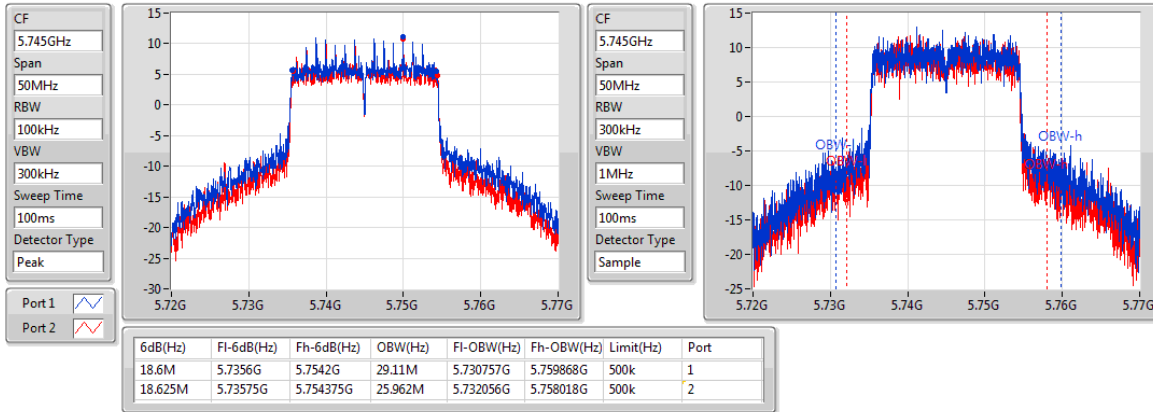


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

17/02/2019

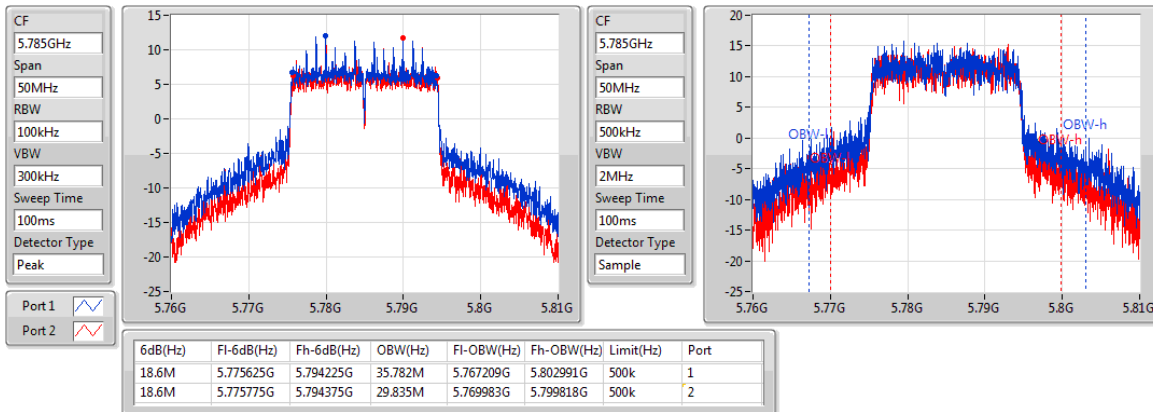


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5785MHz

17/02/2019

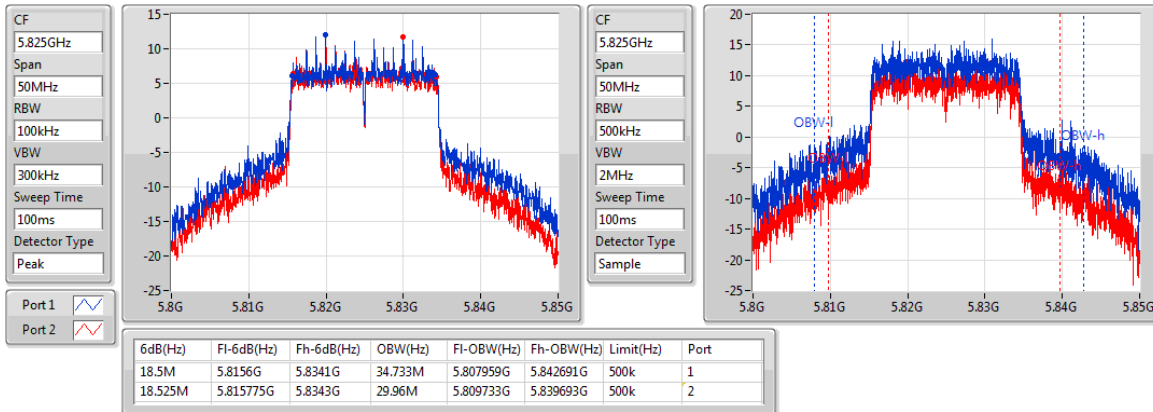


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5825MHz

17/02/2019

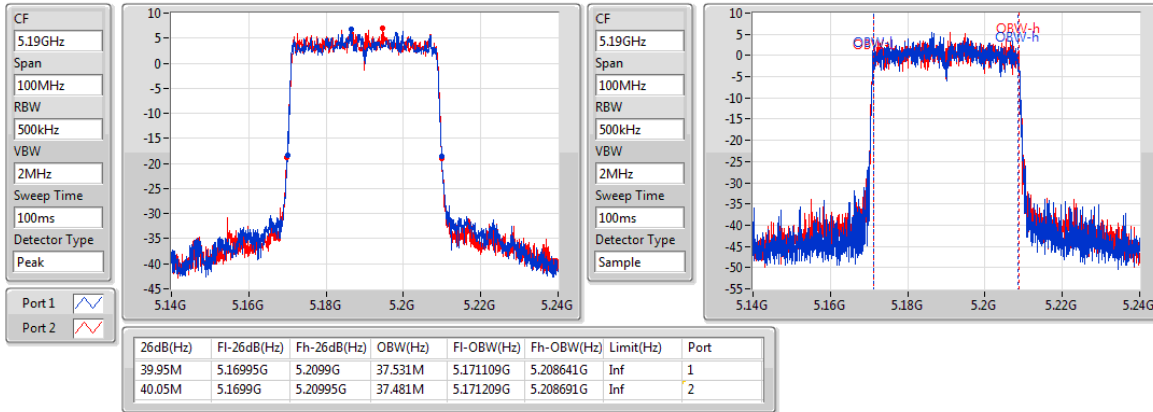


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

17/02/2019

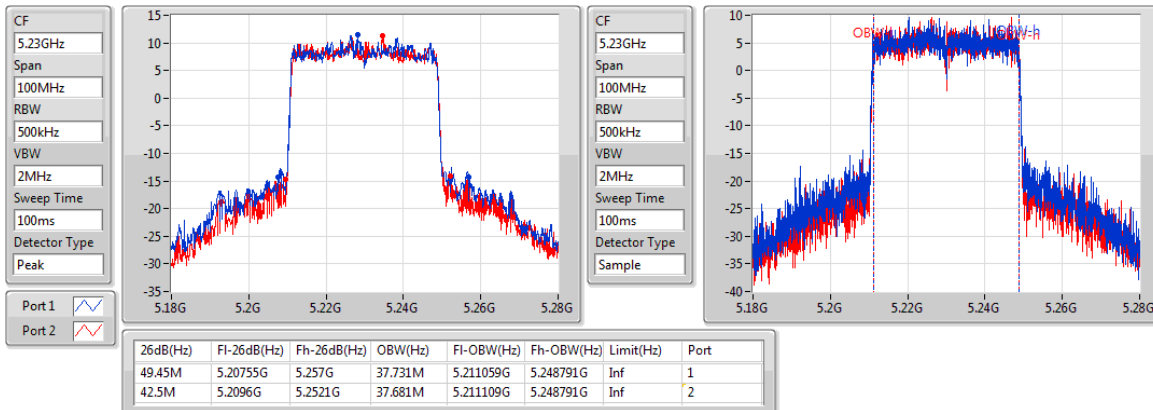


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

17/02/2019

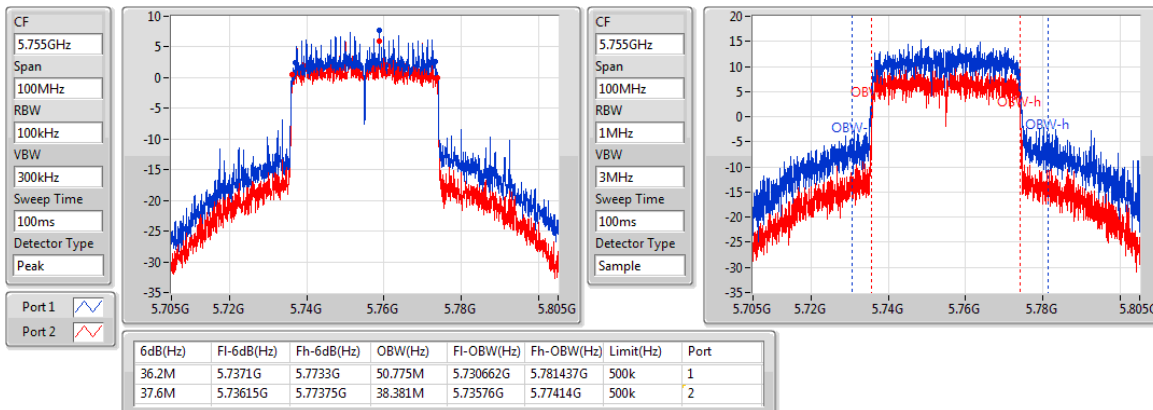


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5755MHz

17/02/2019

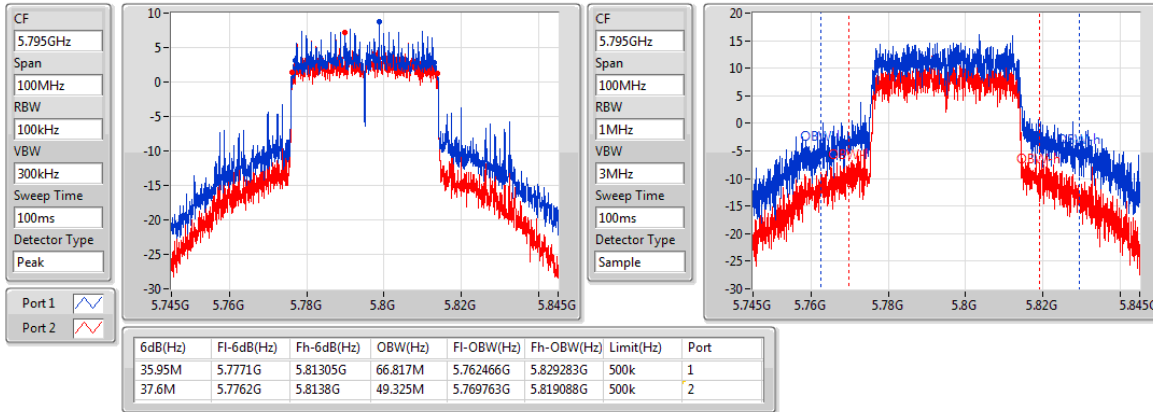


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5795MHz

17/02/2019

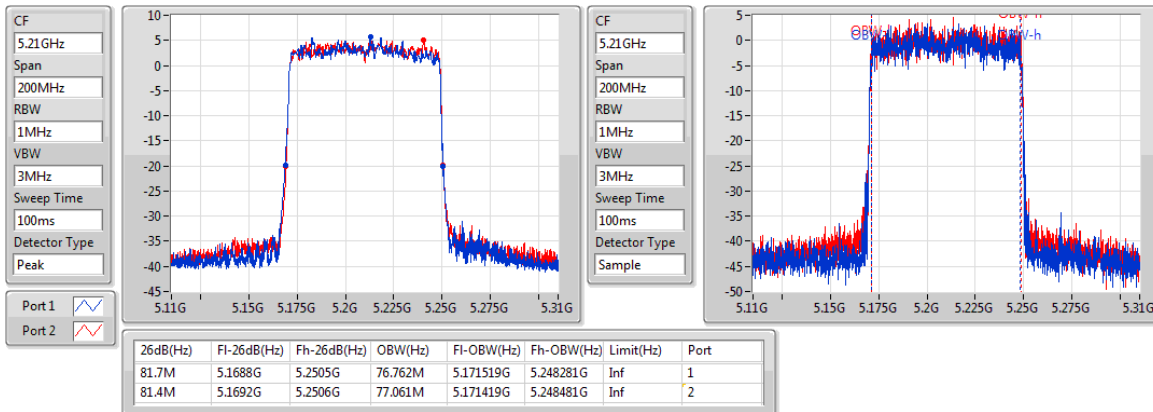


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

17/02/2019

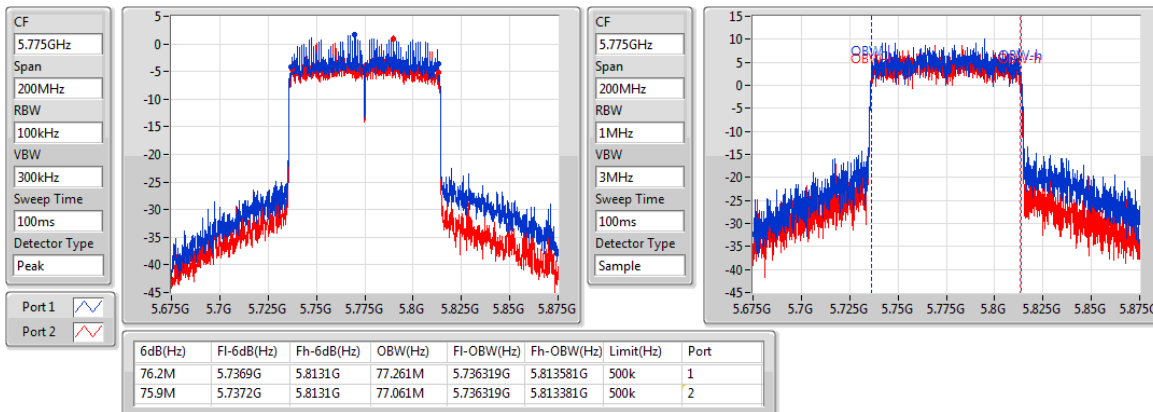


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5775MHz

17/02/2019





EBW Result_Radio 2

Appendix B.33

For Non-beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	42.425M	17.341M	17M3D1D	21.375M	16.567M
802.11ax HEW20_Nss1,(MCS0)_4TX	40.7M	19.115M	19M1D1D	21.4M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.95M	37.631M	37M6D1D	40M	37.531M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.7M	77.261M	77M3D1D	81.3M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	27.211M	27M2D1D	16.275M	17.891M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.925M	35.107M	35M1D1D	18.625M	25.562M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.6M	38.281M	38M3D1D	36.95M	37.581M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.5M	77.161M	77M2D1D	76.9M	76.962M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.375M	16.567M	21.7M	16.592M	21.825M	16.567M	21.4M	16.567M
5200MHz	Pass	Inf	42.425M	17.341M	38.85M	16.942M	39.425M	17.016M	38.525M	16.892M
5240MHz	Pass	Inf	39.25M	16.867M	38.25M	16.792M	39.15M	16.817M	38.25M	16.817M
5745MHz	Pass	500k	16.325M	20.59M	16.325M	17.891M	16.3M	19.365M	16.325M	19.415M
5785MHz	Pass	500k	16.3M	25.637M	16.325M	22.864M	16.3M	26.512M	16.325M	25.312M
5825MHz	Pass	500k	16.325M	27.211M	16.325M	23.988M	16.35M	24.538M	16.275M	24.913M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.725M	18.991M	21.625M	18.991M	21.8M	18.941M	21.4M	18.941M
5200MHz	Pass	Inf	28M	19.015M	25.2M	19.015M	30.45M	19.015M	23.7M	19.04M
5240MHz	Pass	Inf	40.525M	19.115M	36.675M	19.065M	40.7M	19.115M	37.575M	19.065M
5745MHz	Pass	500k	18.85M	29.16M	18.925M	25.562M	18.8M	27.436M	18.775M	27.411M
5785MHz	Pass	500k	18.7M	35.107M	18.625M	31.134M	18.7M	34.183M	18.925M	33.683M
5825MHz	Pass	500k	18.725M	34.308M	18.625M	28.586M	18.875M	30.26M	18.675M	31.534M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.531M	40.1M	37.631M	40.1M	37.531M	40.1M	37.531M
5230MHz	Pass	Inf	40.2M	37.581M	41.35M	37.631M	41.95M	37.531M	40.15M	37.631M
5755MHz	Pass	500k	37.6M	37.931M	36.95M	37.681M	37.25M	37.831M	37.1M	37.731M
5795MHz	Pass	500k	37.6M	38.281M	37.1M	37.581M	37.25M	37.881M	37.1M	37.881M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.962M	81.4M	77.061M	81.3M	77.261M	81.7M	76.962M
5775MHz	Pass	500k	77.5M	77.161M	76.9M	77.161M	77M	76.962M	76.9M	77.161M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

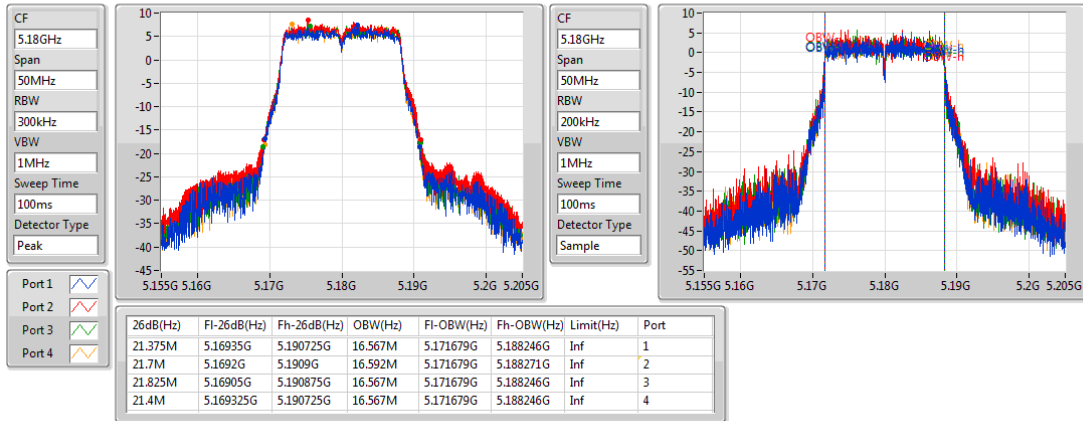
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

16/02/2019

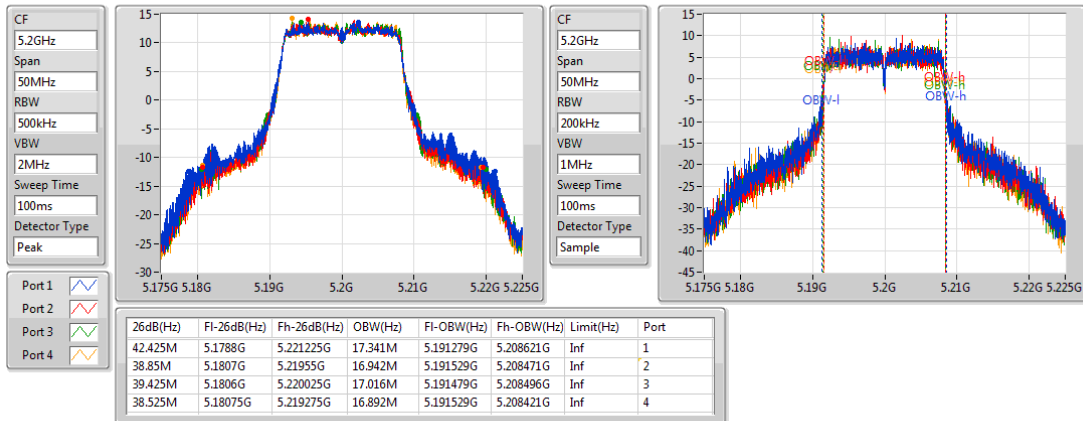


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

16/02/2019

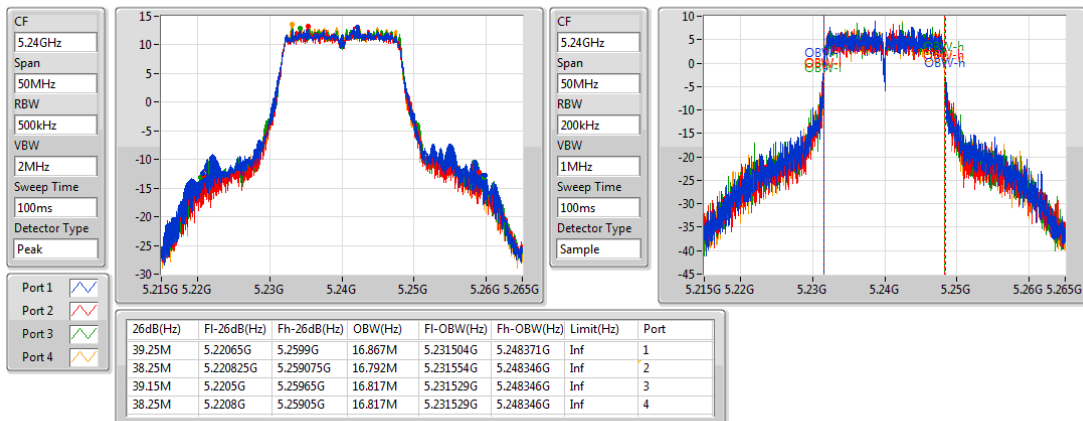


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

16/02/2019

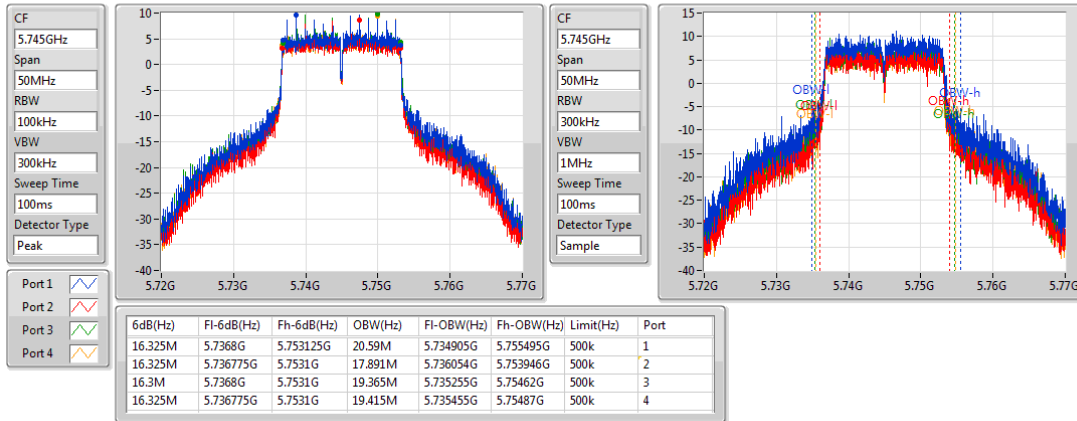


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

16/02/2019

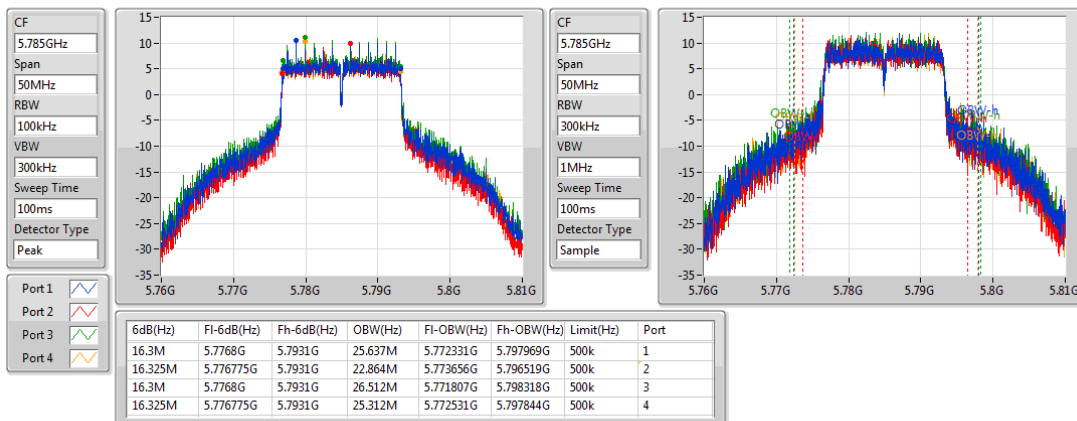


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

16/02/2019

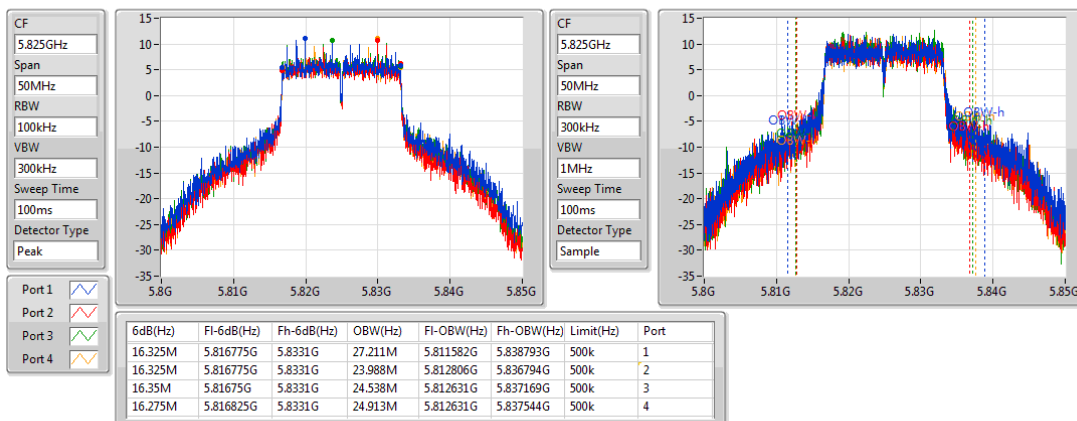


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

16/02/2019

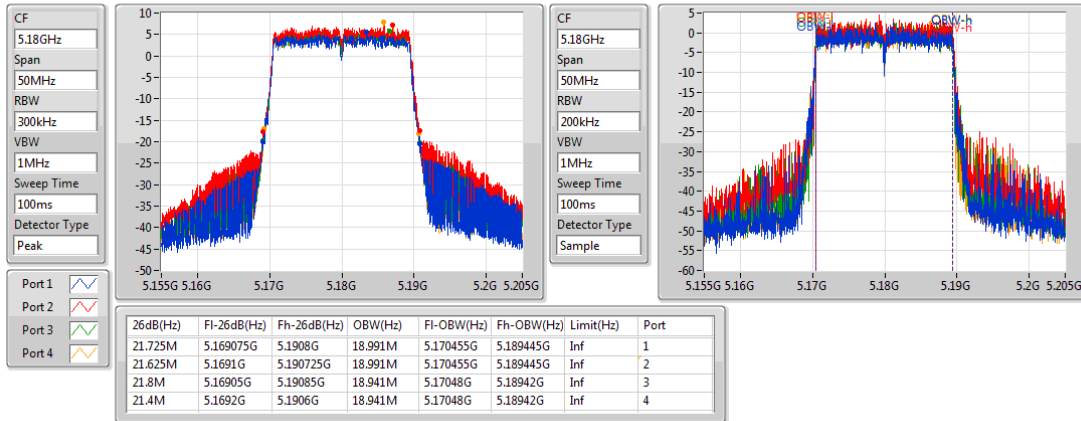


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

16/02/2019

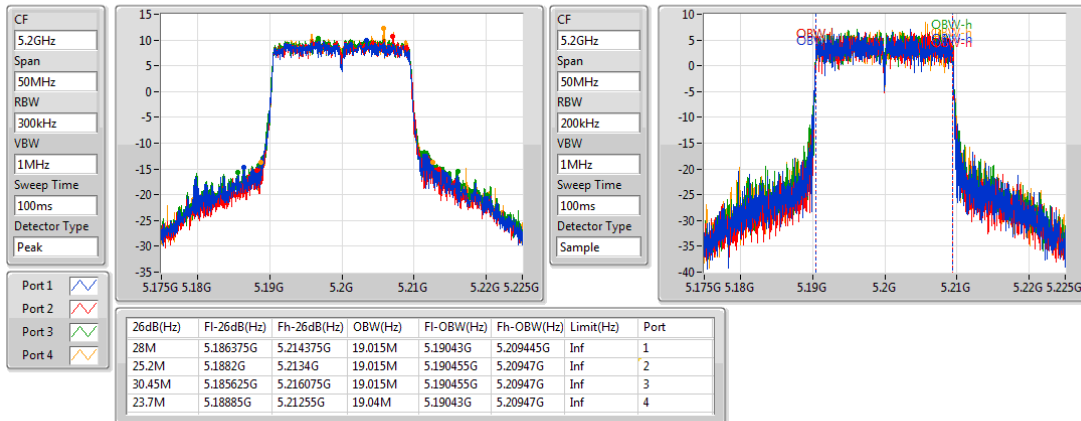


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

16/02/2019

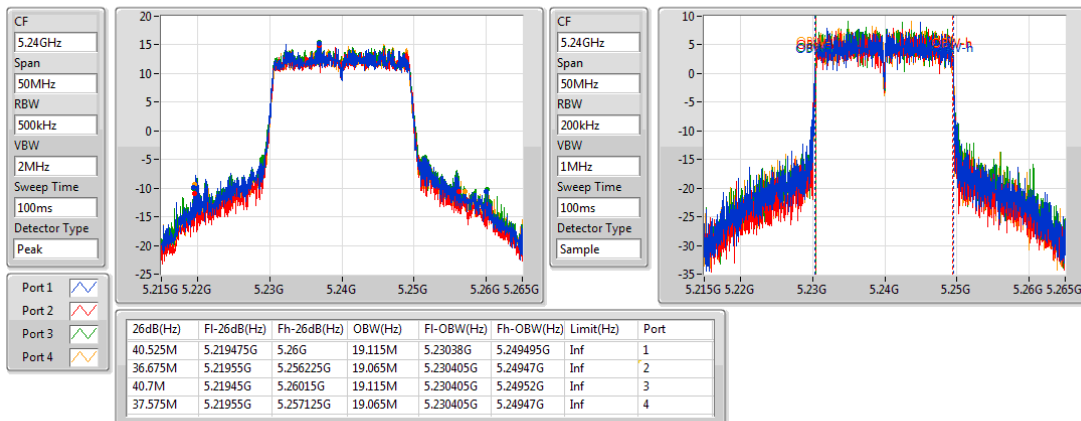


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

16/02/2019

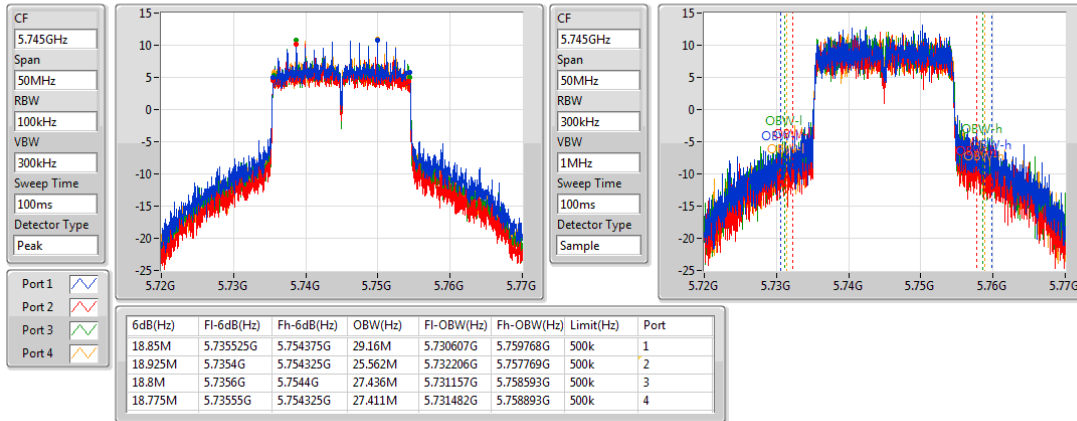


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

16/02/2019

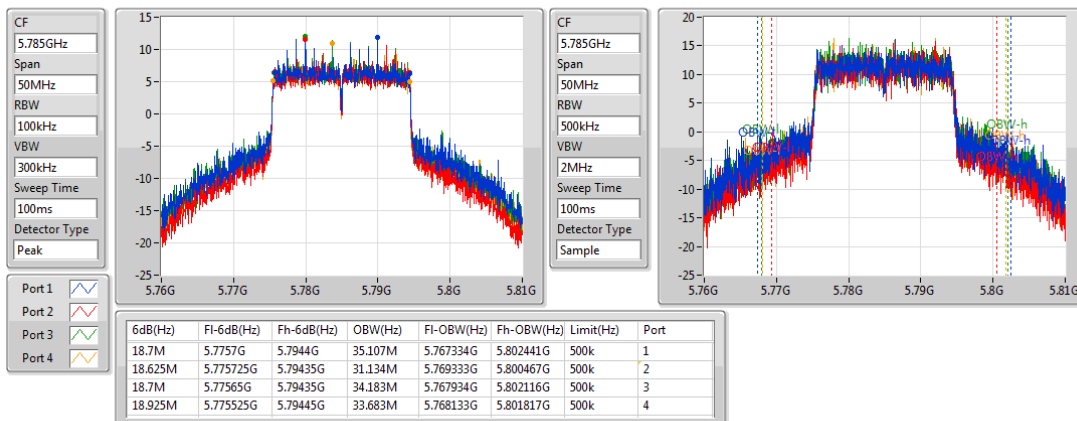


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

16/02/2019

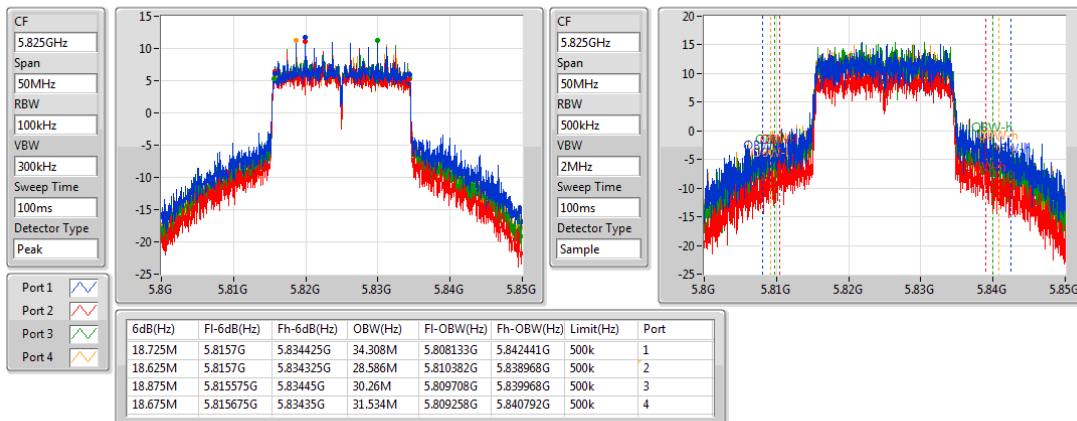


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

16/02/2019

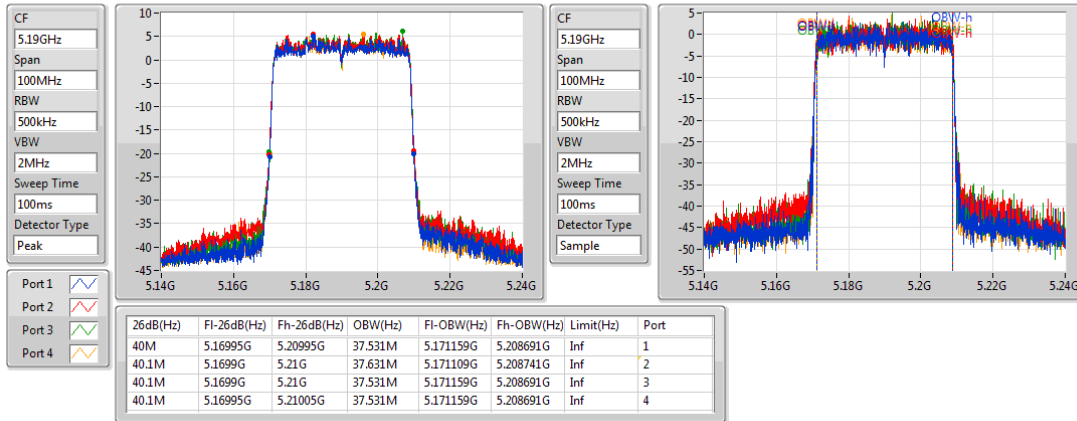


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

16/02/2019

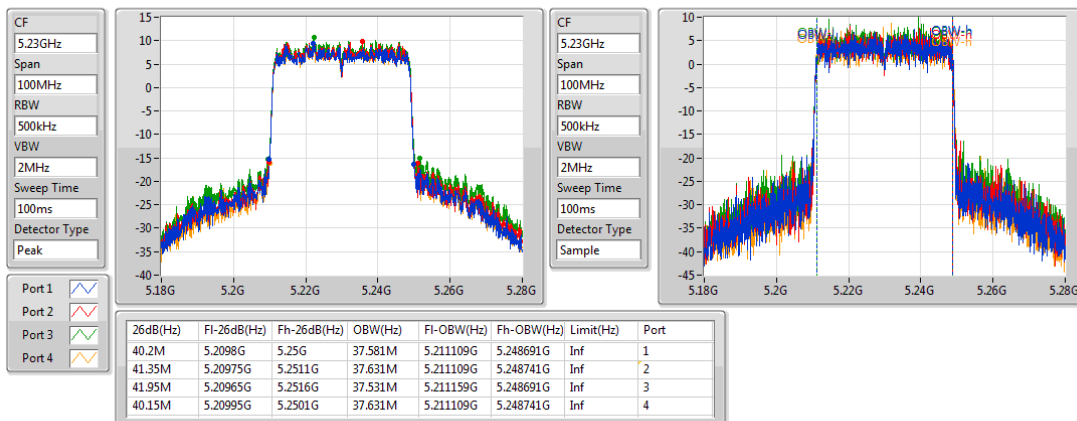


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

16/02/2019

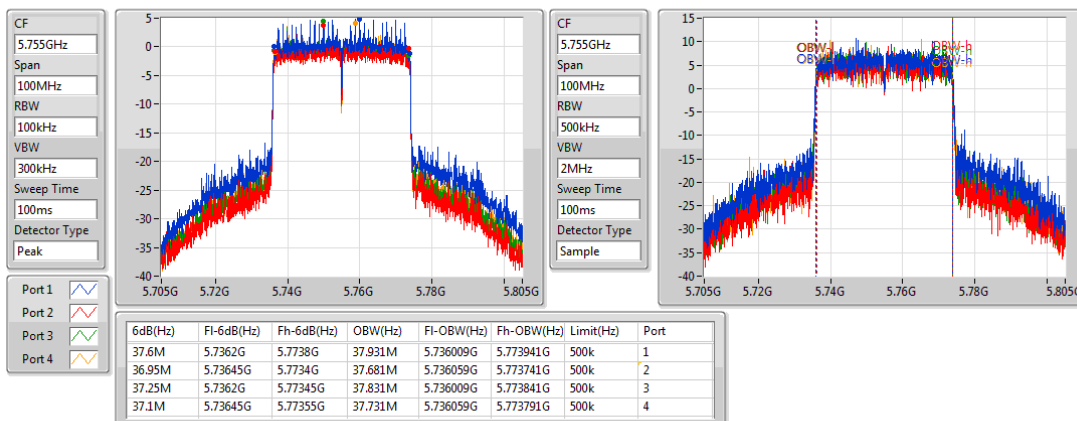


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

16/02/2019

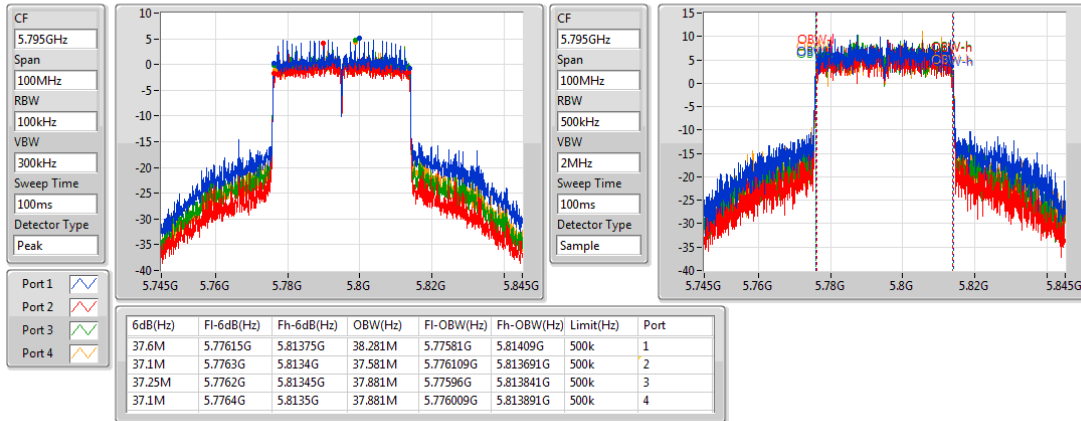


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

16/02/2019

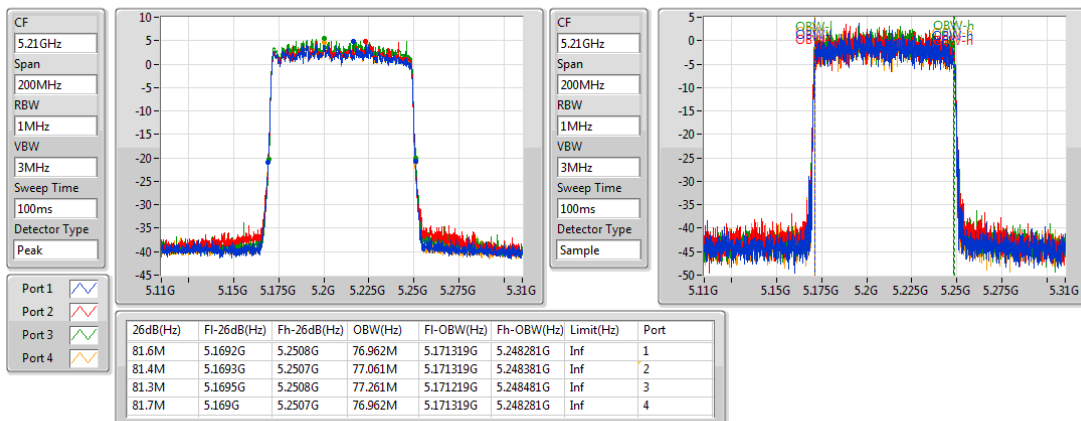


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

16/02/2019

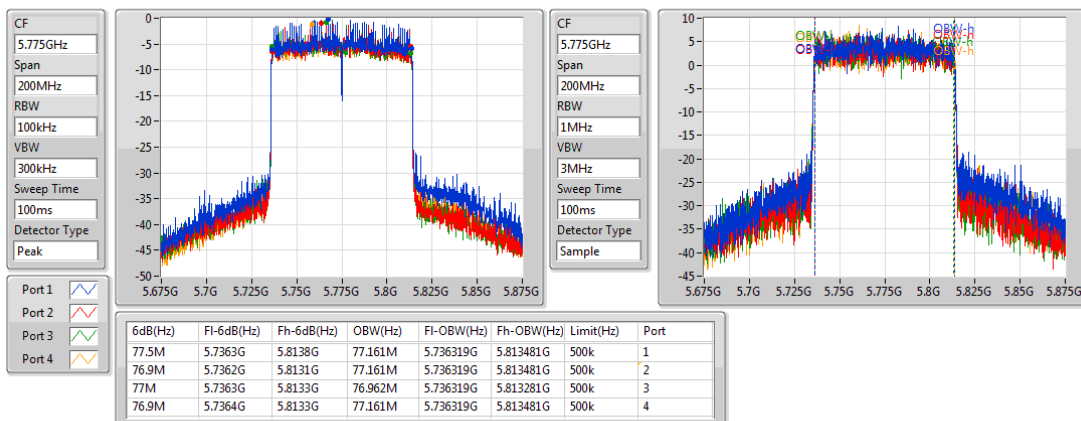


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

17/02/2019





EBW Result_Radio 2

Appendix B.34

For Beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	41.725M	19.14M	19M1D1D	21.675M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	55.55M	37.781M	37M8D1D	39.95M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.8M	77.161M	77M2D1D	81.4M	77.061M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.95M	28.411M	28M4D1D	18.575M	24.088M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.55M	52.274M	52M3D1D	37.05M	37.931M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.4M	77.361M	77M4D1D	76.6M	77.161M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.675M	18.966M	21.7M	18.991M	21.7M	18.941M	21.675M	18.966M
5200MHz	Pass	Inf	36.3M	19.015M	41.725M	19.04M	37.55M	19.04M	40.975M	19.14M
5240MHz	Pass	Inf	36.8M	19.065M	38.85M	19.09M	37.5M	19.04M	41.125M	19.115M
5745MHz	Pass	500k	18.7M	26.462M	18.95M	24.538M	18.95M	26.837M	18.65M	24.088M
5785MHz	Pass	500k	18.7M	28.411M	18.85M	26.787M	18.725M	27.036M	18.85M	25.712M
5825MHz	Pass	500k	18.575M	27.911M	18.65M	26.412M	18.75M	25.887M	18.775M	24.088M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M	40.1M	37.531M	40M	37.581M	40.2M	37.581M
5230MHz	Pass	Inf	44.4M	37.581M	55.55M	37.781M	44.5M	37.581M	44.5M	37.581M
5755MHz	Pass	500k	37.55M	38.231M	37.05M	38.081M	37.5M	38.081M	37.35M	37.931M
5795MHz	Pass	500k	37.5M	52.274M	37.35M	42.679M	37.2M	43.828M	37.4M	38.781M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	77.161M	81.4M	77.061M	81.5M	77.061M	81.8M	77.161M
5775MHz	Pass	500k	77.4M	77.161M	76.6M	77.361M	77.4M	77.261M	76.9M	77.161M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

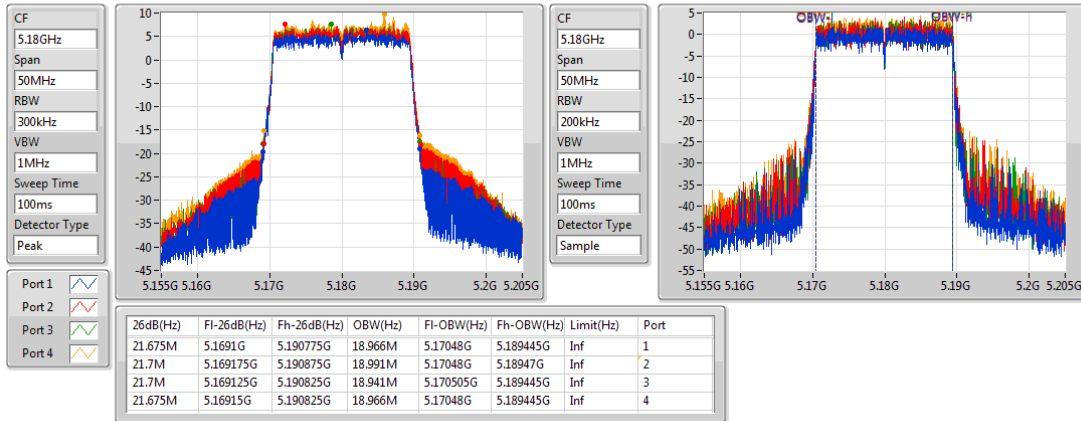
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

20/02/2019

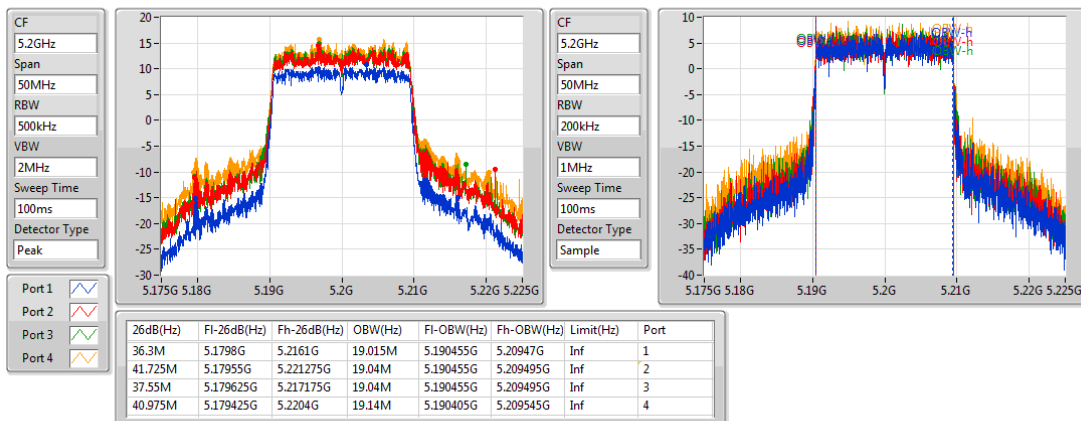


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

20/02/2019

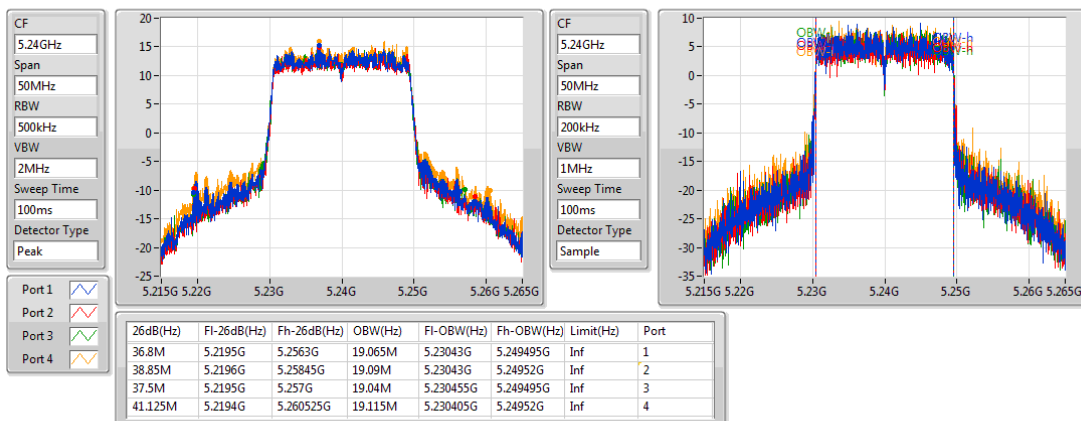


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

20/02/2019

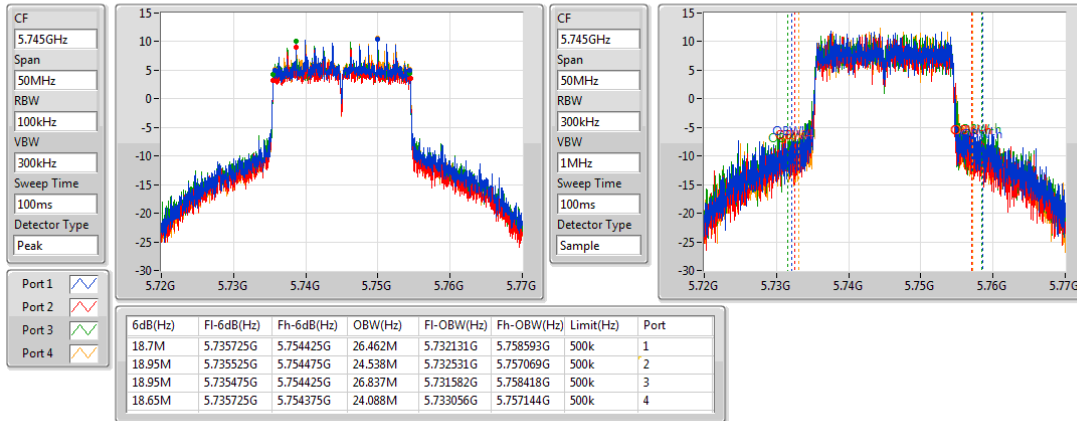


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

20/02/2019

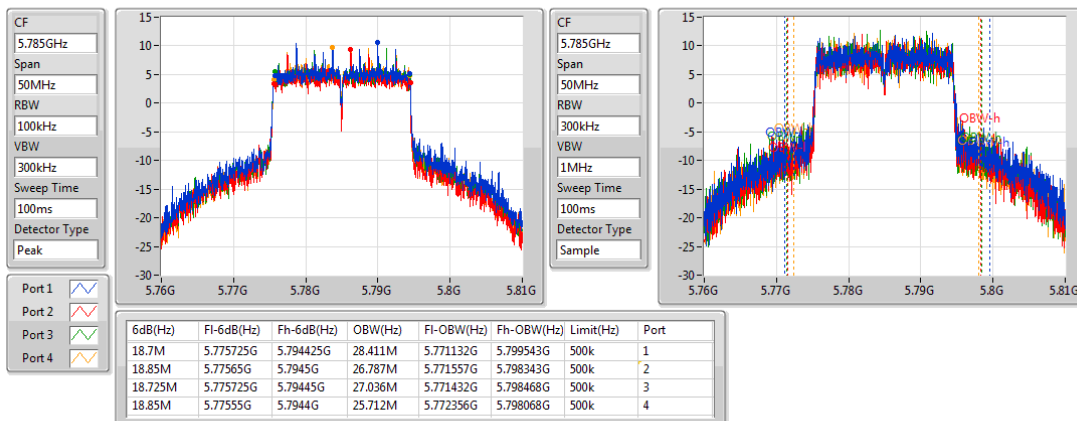


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

20/02/2019

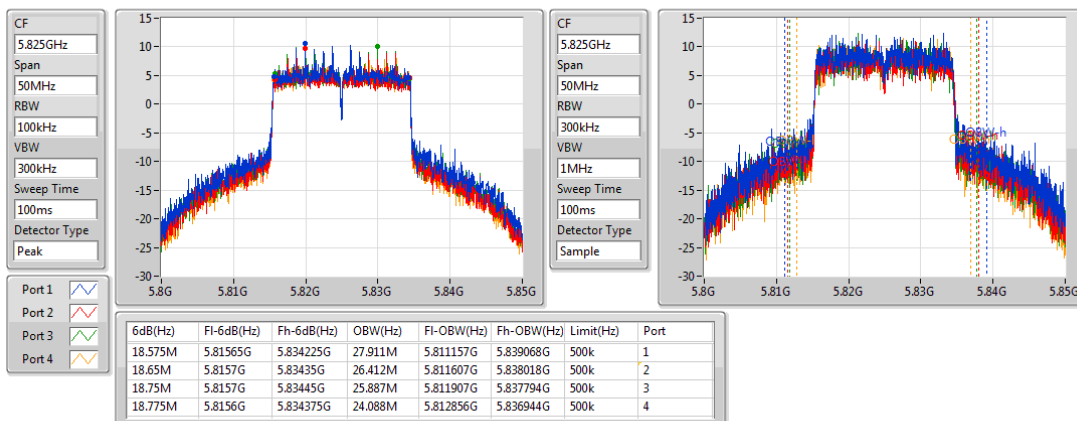


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

20/02/2019

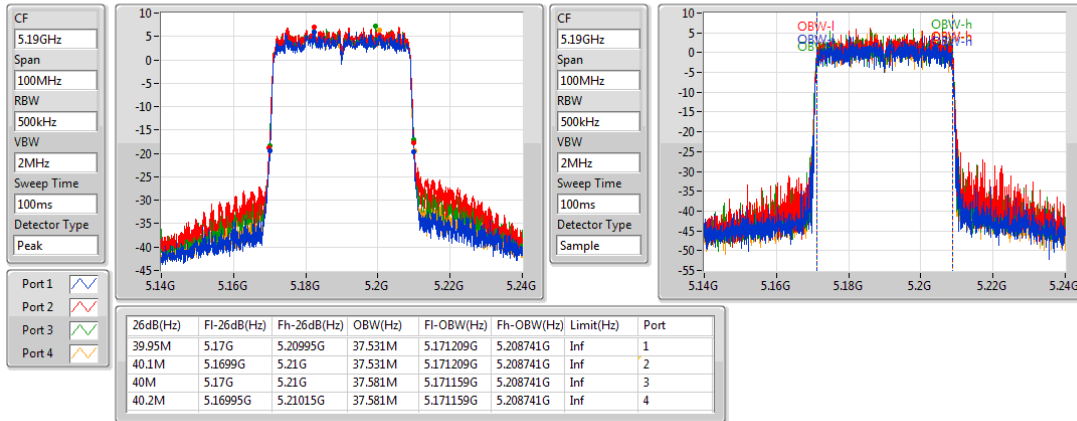


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

20/02/2019

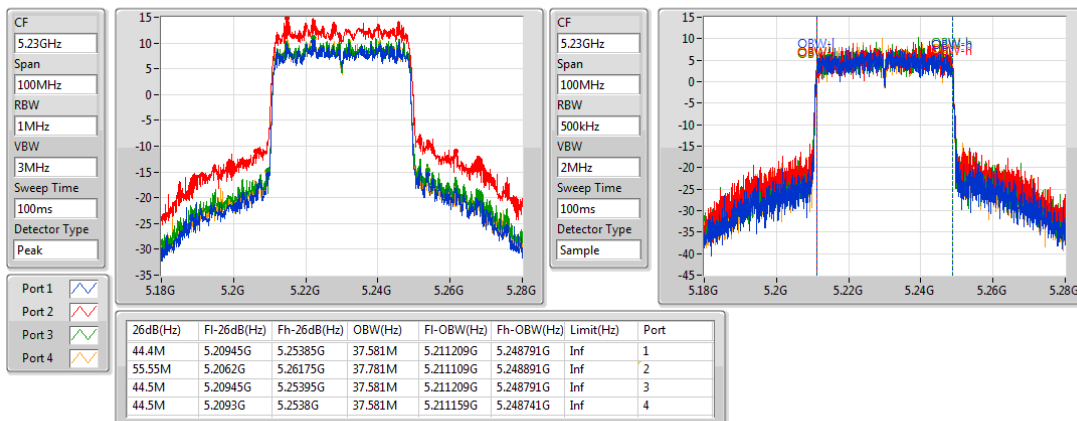


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

20/02/2019

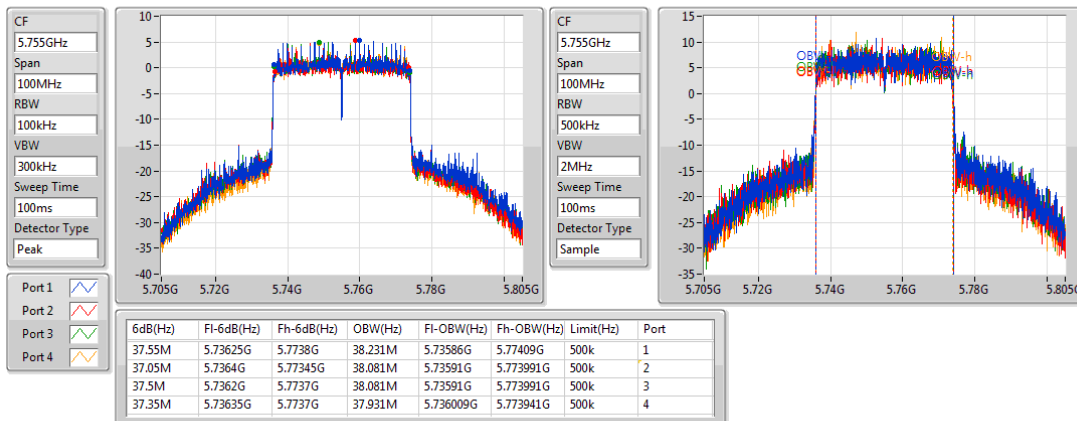


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

20/02/2019

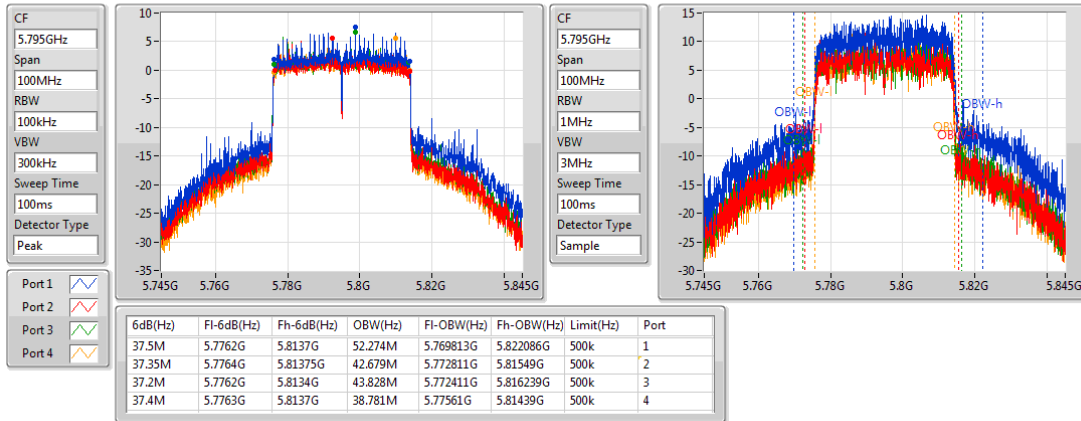


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

20/02/2019

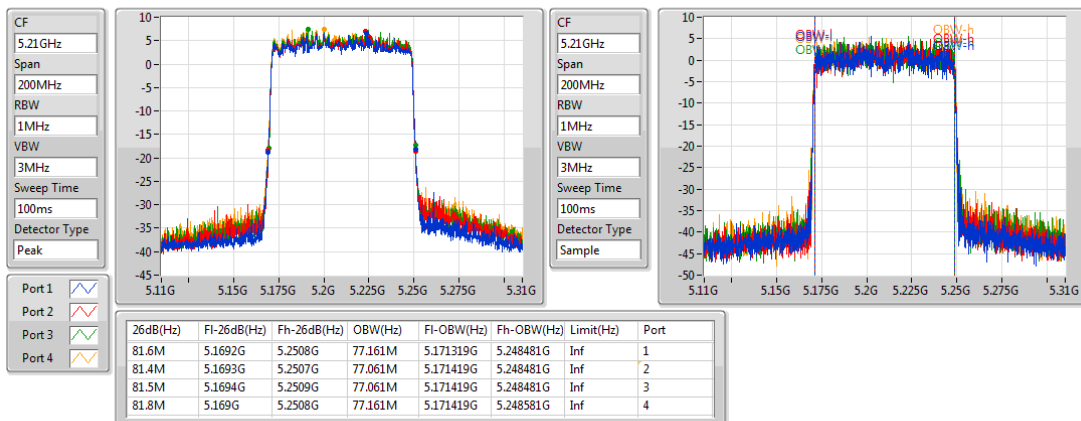


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

20/02/2019

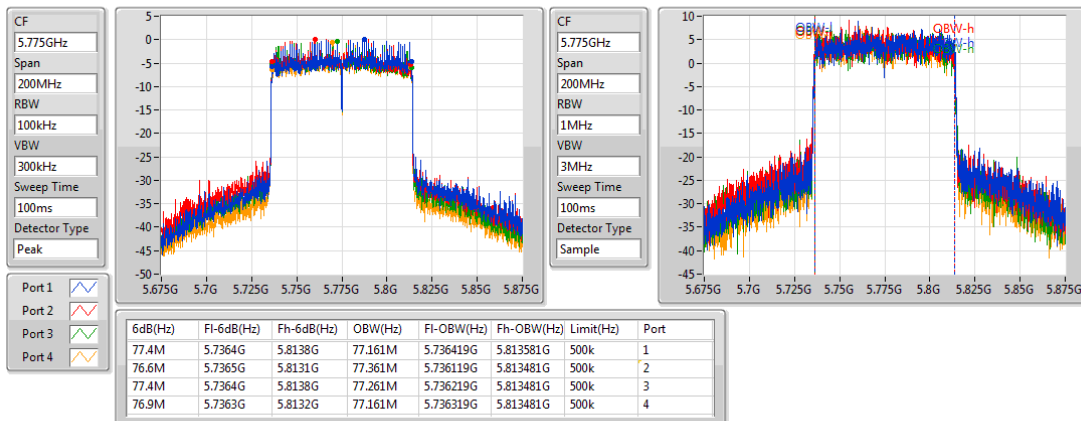


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

20/02/2019





EBW Result_Radio 2

Appendix B.35

For Non-beamforming / 4T4S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	37.5M	19.115M	19M1D1D	21.35M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	45.1M	37.731M	37M7D1D	40.05M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.7M	77.161M	77M2D1D	81.3M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	18.75M	34.583M	34M6D1D	18.05M	26.462M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.5M	56.972M	57M0D1D	36.65M	37.981M
802.11ax HEW80_Nss4,(MCS0)_4TX	76.9M	77.261M	77M3D1D	76.5M	76.962M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.8M	18.966M	21.675M	18.966M	21.95M	18.941M	21.35M	18.941M
5200MHz	Pass	Inf	32.3M	19.04M	27.2M	19.015M	28.4M	18.991M	23.25M	19.015M
5240MHz	Pass	Inf	33.65M	19.115M	35.45M	19.04M	37.475M	19.04M	37.5M	19.115M
5745MHz	Pass	500k	18.525M	27.986M	18.35M	26.787M	18.75M	26.462M	18.75M	26.512M
5785MHz	Pass	500k	18.55M	34.583M	18.475M	31.984M	18.6M	33.733M	18.05M	33.358M
5825MHz	Pass	500k	18.525M	33.408M	18.5M	29.16M	18.65M	31.434M	18.55M	32.709M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.2M	37.481M	40.05M	37.631M	40.1M	37.481M	40.2M	37.531M
5230MHz	Pass	Inf	42.65M	37.581M	45.1M	37.531M	40.45M	37.581M	40.45M	37.731M
5755MHz	Pass	500k	36.85M	40.98M	36.65M	37.981M	36.85M	38.381M	37.2M	38.331M
5795MHz	Pass	500k	37.5M	56.972M	36.65M	38.181M	37.5M	43.328M	37.2M	44.578M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.3M	76.962M	81.4M	76.962M	81.7M	77.161M	81.7M	77.061M
5775MHz	Pass	500k	76.5M	77.161M	76.9M	76.962M	76.5M	77.161M	76.9M	77.261M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

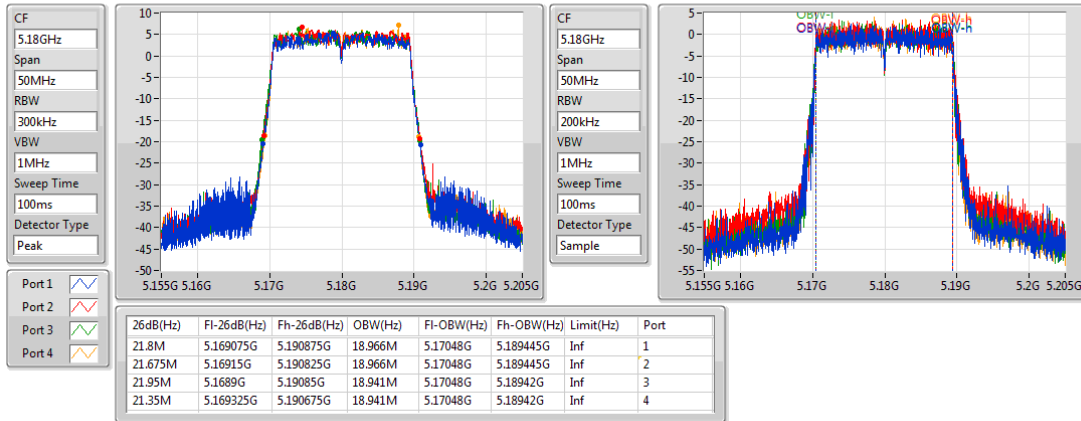
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

17/02/2019

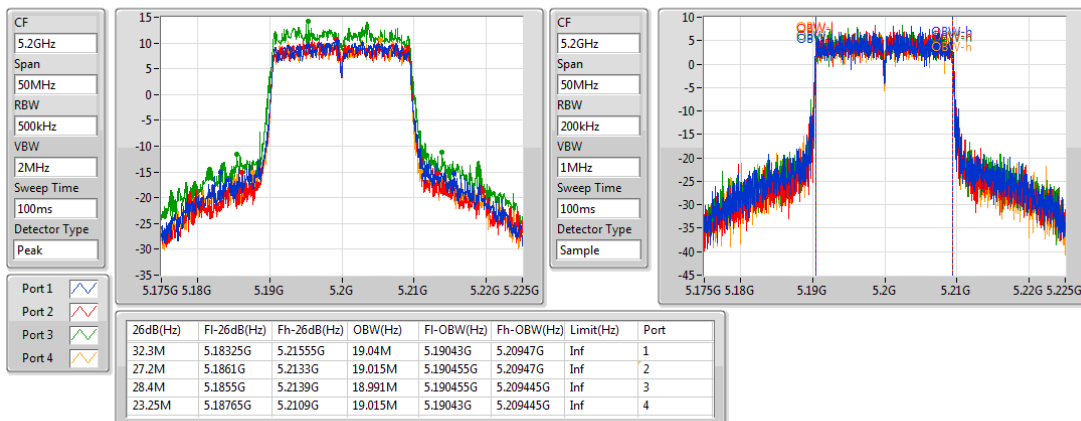


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

17/02/2019

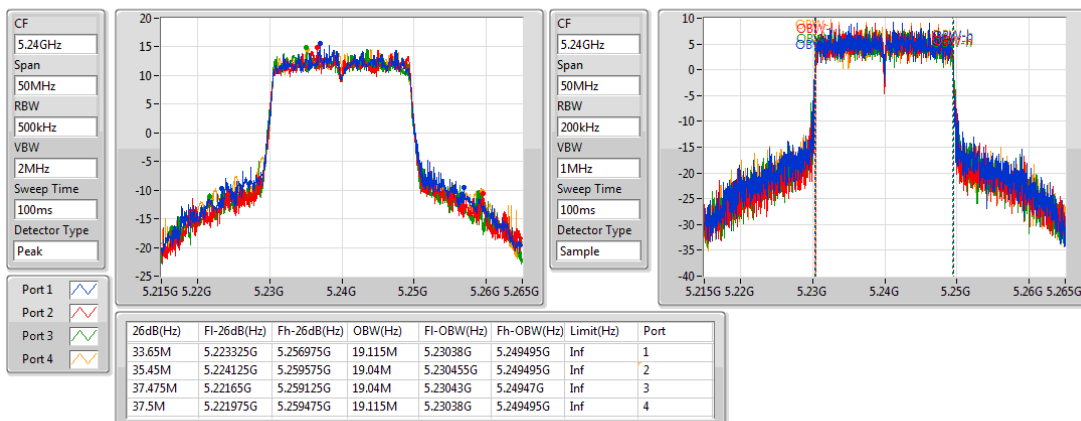


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

17/02/2019

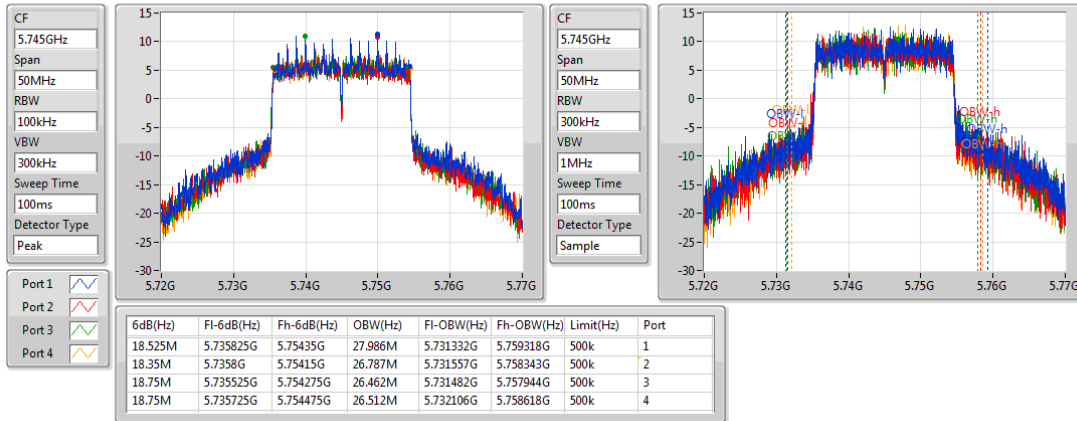


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5745MHz

17/02/2019

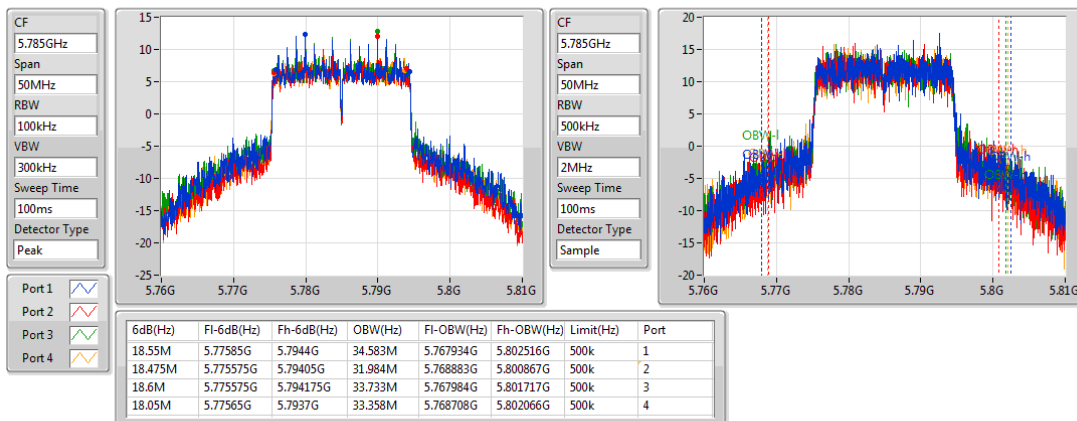


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5785MHz

17/02/2019

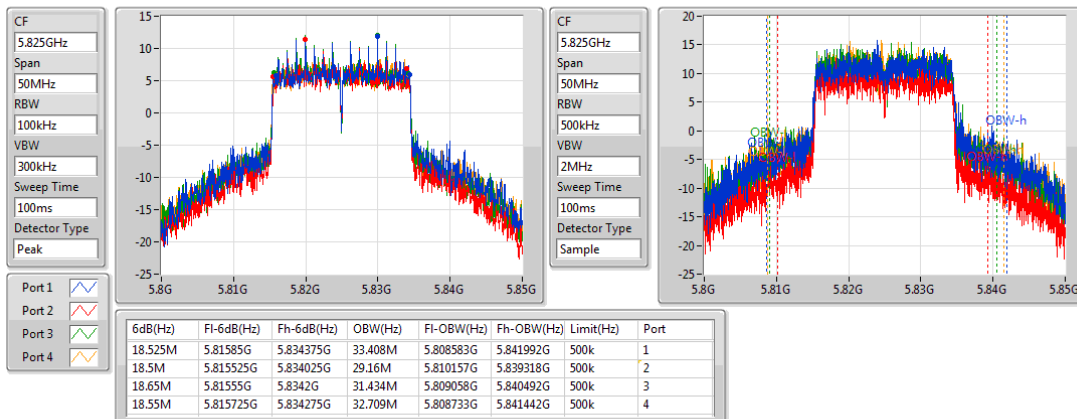


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5825MHz

17/02/2019

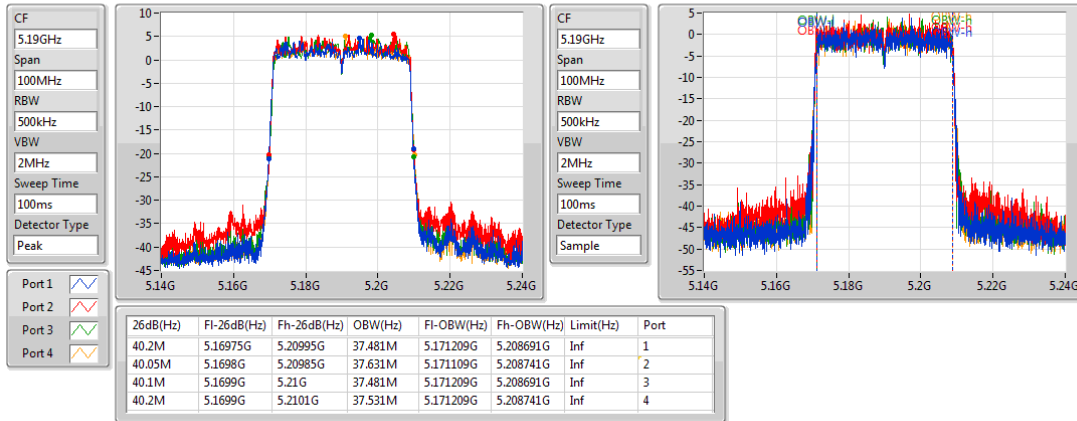


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

17/02/2019

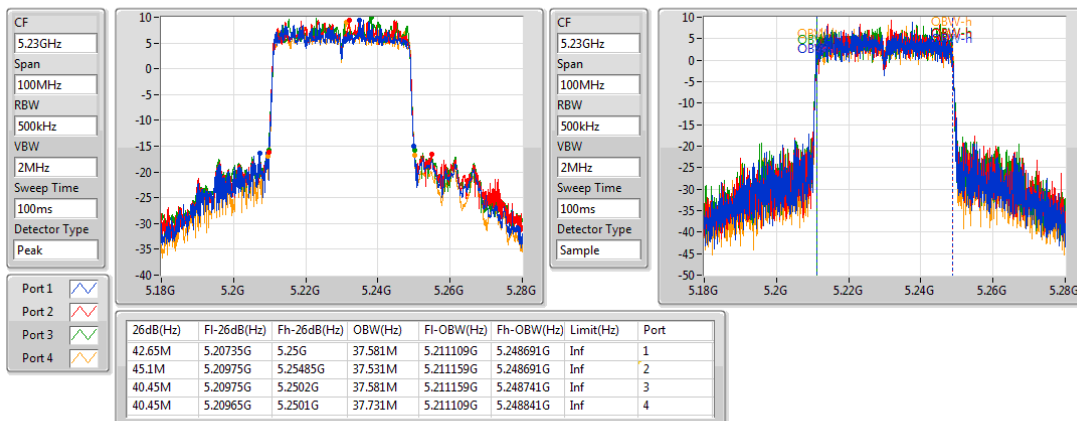


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

17/02/2019

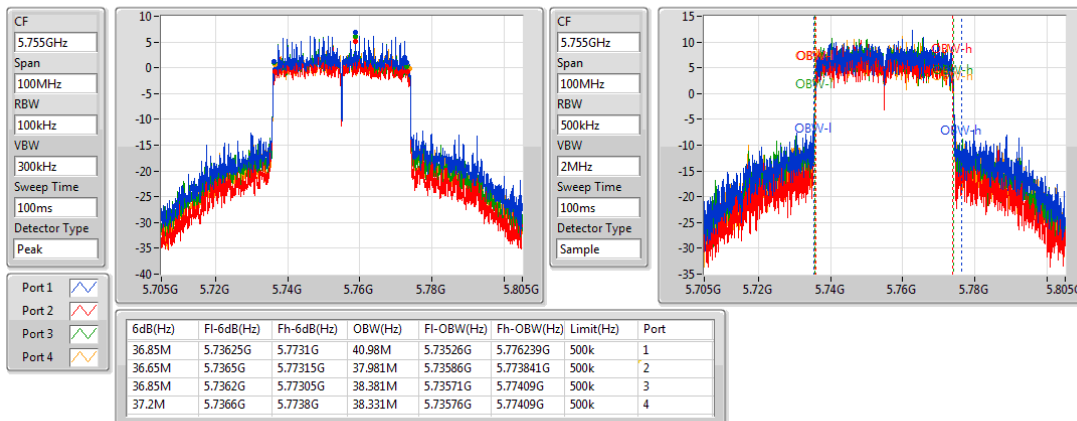


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5755MHz

17/02/2019

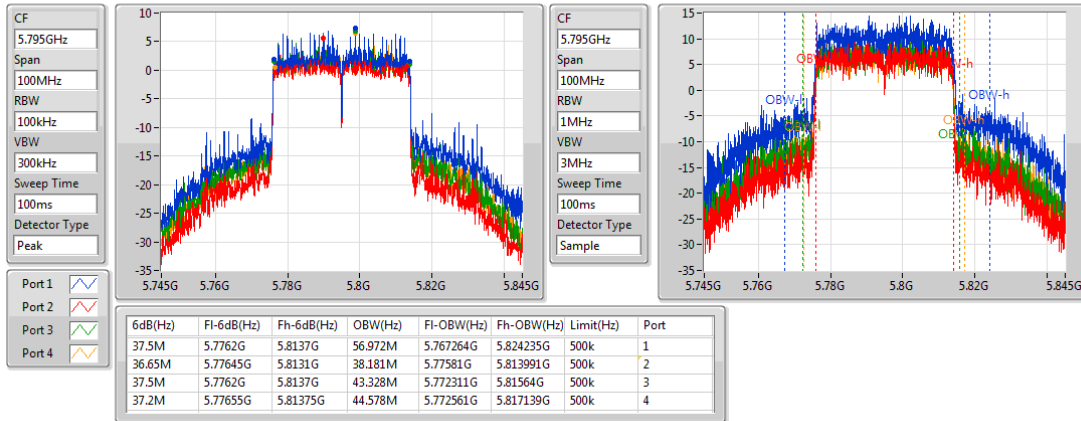


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5795MHz

17/02/2019

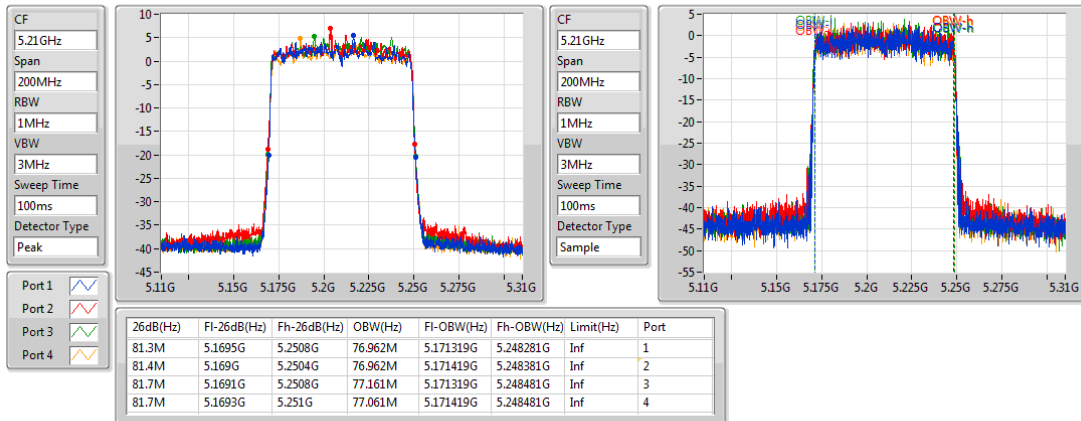


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

17/02/2019

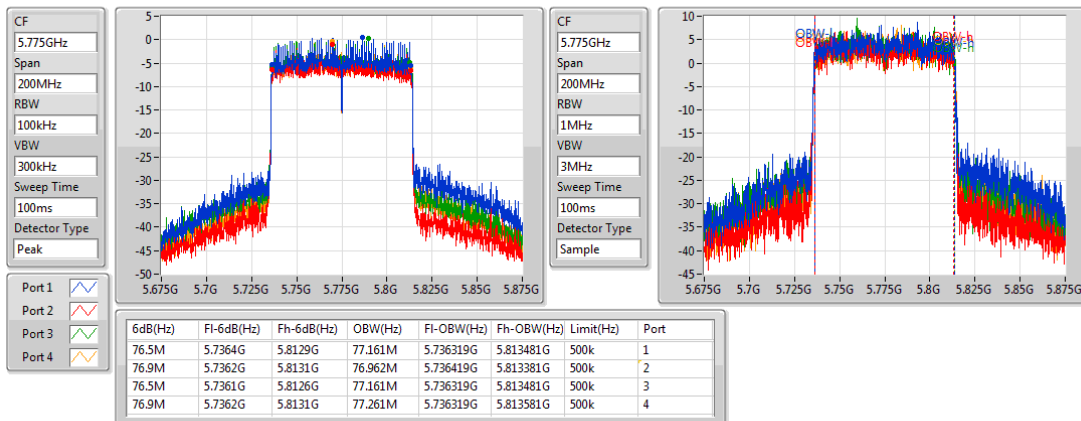


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5775MHz

17/02/2019



Mode 2: (Ant. 6 Omni antenna / 6 dBi)
For Non-beamforming / 1T1S mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	27.35M	16.617M	16M6D1D	21.625M	16.617M
802.11ax HEW20_Nss1,(MCS0)_1TX	36.425M	19.015M	19M0D1D	23.175M	18.941M
802.11ax HEW40_Nss1,(MCS0)_1TX	47M	37.581M	37M6D1D	39.95M	37.481M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.7M	76.962M	77M0D1D	81.7M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.325M	20.715M	20M7D1D	16.275M	18.341M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.925M	25.112M	25M1D1D	18.7M	19.215M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.6M	53.873M	53M9D1D	36.85M	52.224M
802.11ax HEW80_Nss1,(MCS0)_1TX	77.5M	77.661M	77M7D1D	77.5M	77.661M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.625M	16.617M
5200MHz	Pass	Inf	27.2M	16.617M
5240MHz	Pass	Inf	27.35M	16.617M
5745MHz	Pass	500k	16.275M	18.341M
5785MHz	Pass	500k	16.275M	20.715M
5825MHz	Pass	500k	16.325M	19.19M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	23.175M	18.941M
5200MHz	Pass	Inf	36.4M	19.015M
5240MHz	Pass	Inf	36.425M	19.015M
5745MHz	Pass	500k	18.7M	20.815M
5785MHz	Pass	500k	18.875M	25.112M
5825MHz	Pass	500k	18.925M	19.215M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.481M
5230MHz	Pass	Inf	47M	37.581M
5755MHz	Pass	500k	36.85M	52.224M
5795MHz	Pass	500k	37.6M	53.873M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.7M	76.962M
5775MHz	Pass	500k	77.5M	77.661M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

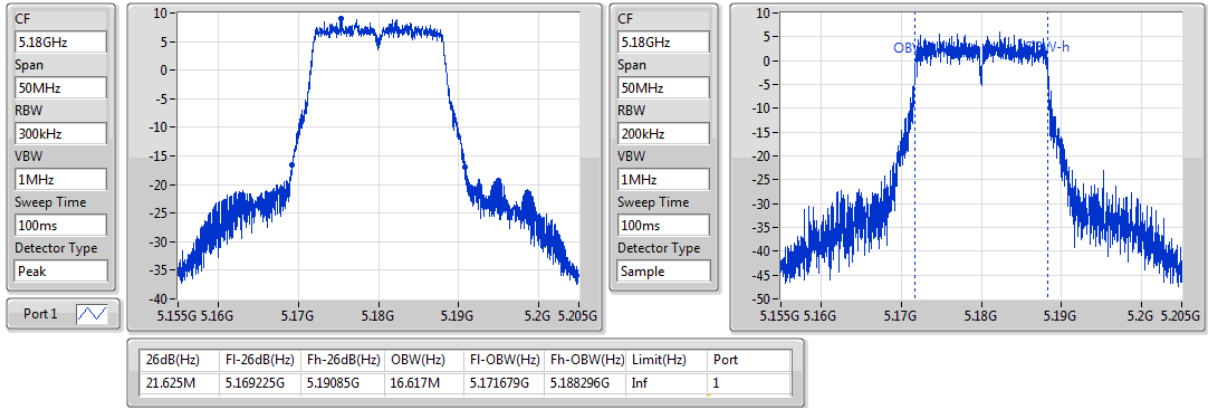
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

24/01/2019

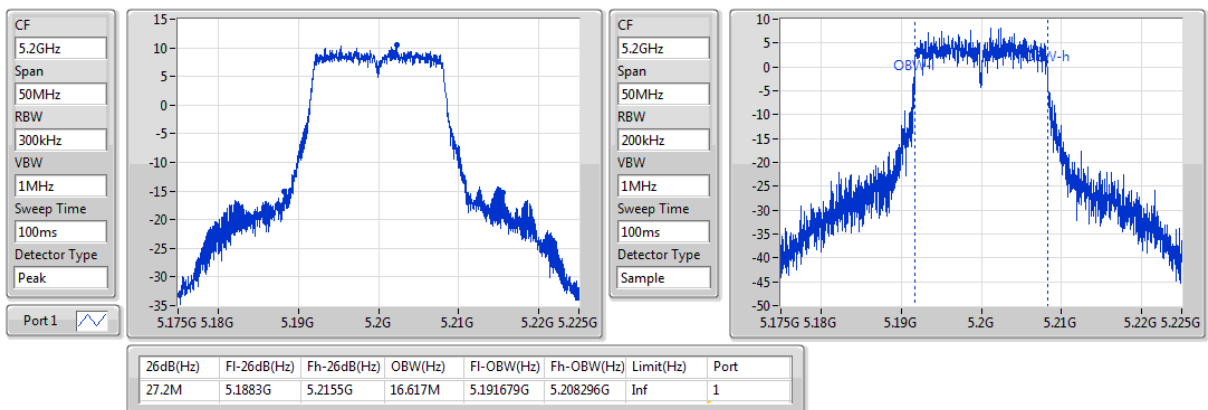


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

24/01/2019

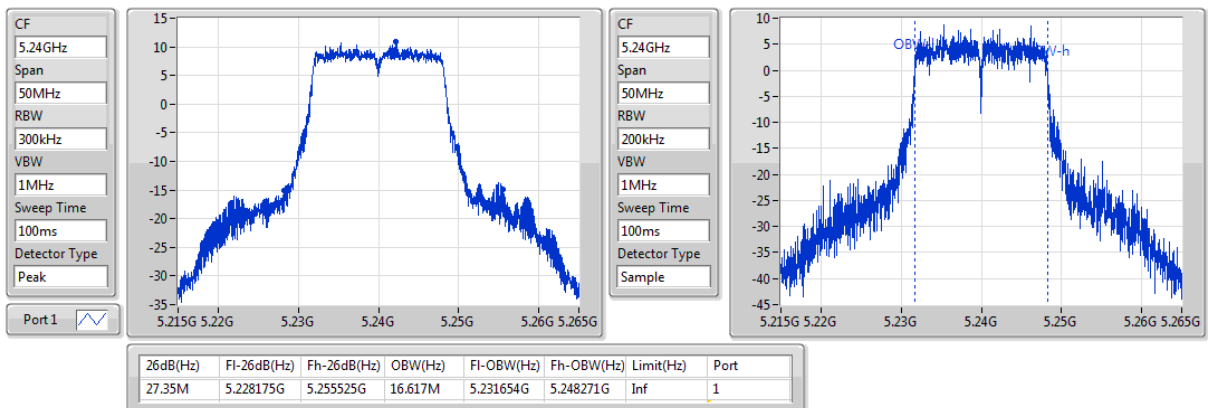


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

24/01/2019

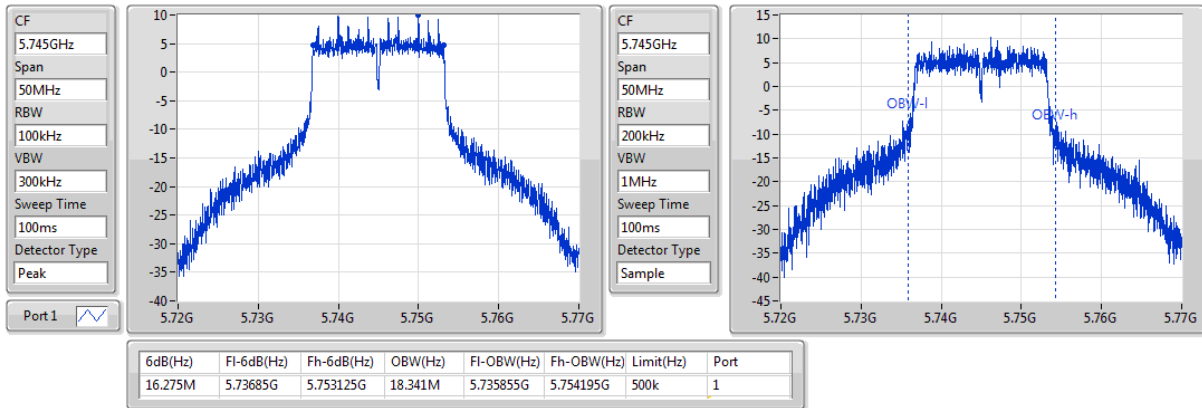


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

24/01/2019

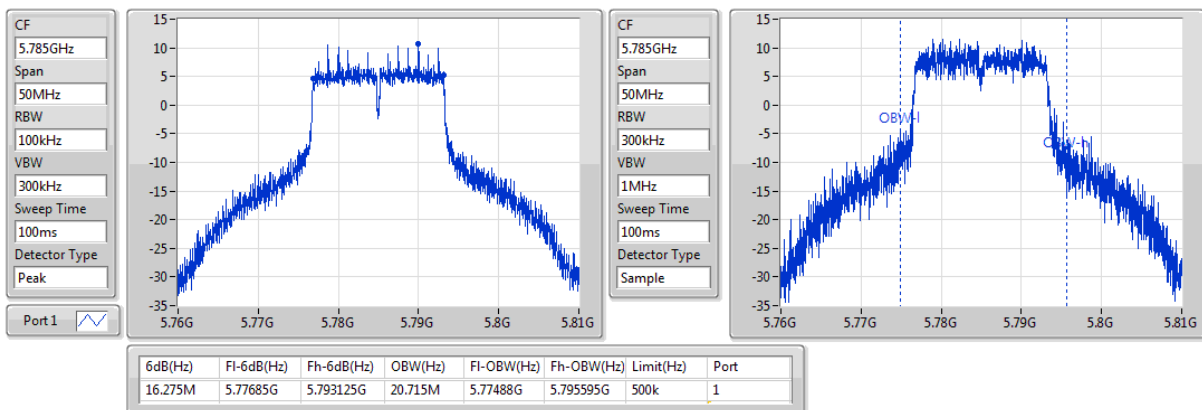


802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

24/01/2019

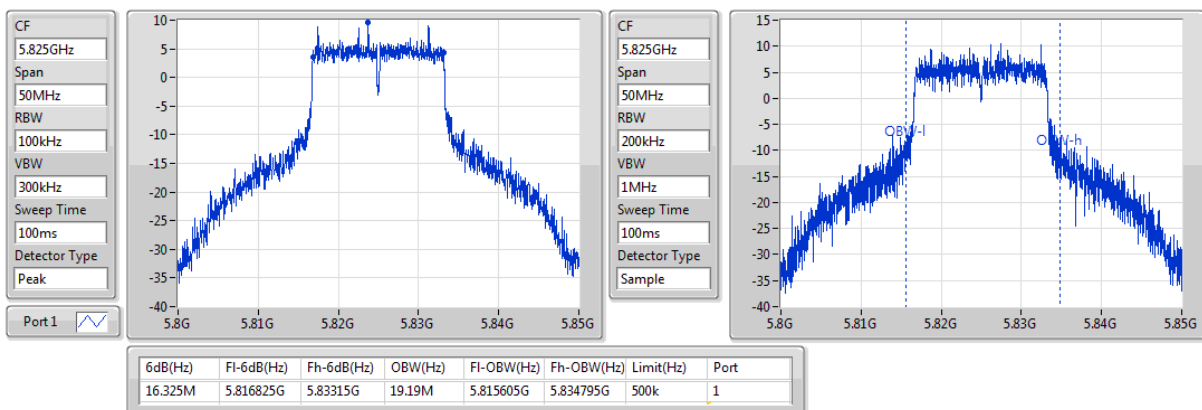


802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

24/01/2019

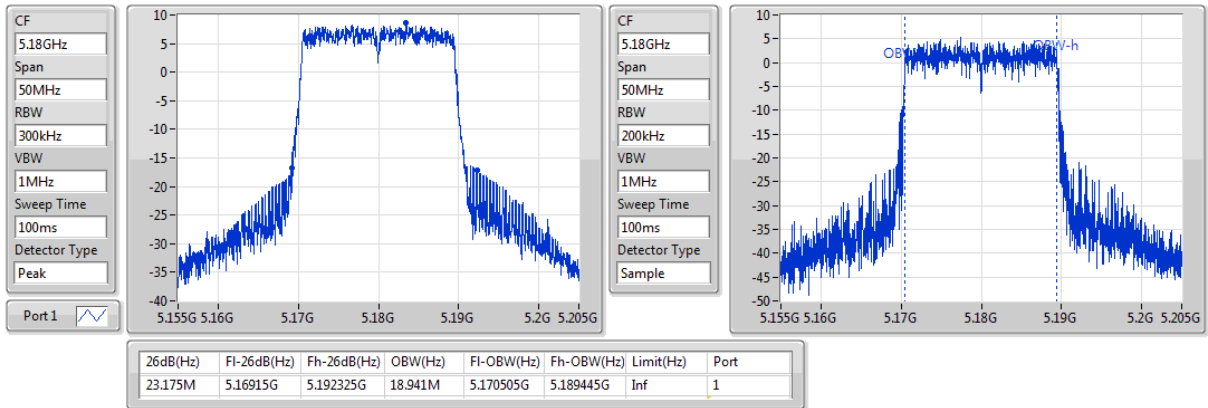


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

24/01/2019

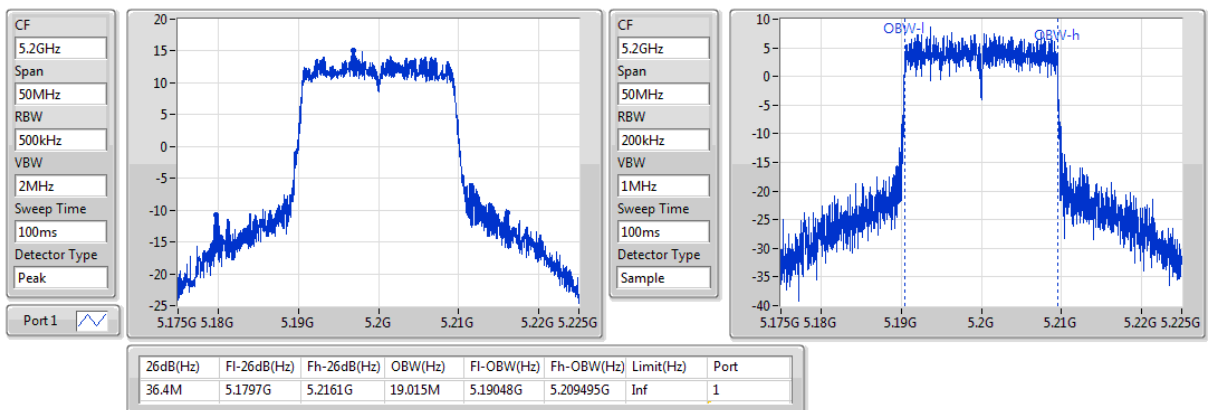


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

24/01/2019



802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

24/01/2019

