

Conducted Spurious Emissions

15.407: For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

30 MHz-40 GHz Span: Reference Level: 20 dBm Attenuation: 10 dB Sweep Time: 10 s Resolution Bandwidth: 1 MHz Video Bandwidth: 3 MHz Detector: Peak Trace: Single Marker: Peak

Record the marker waveform peak to spur difference

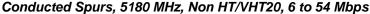
The "Measure and add 10 log(N) dB technique", where N is the number of outputs, is used for measuring Conducted Spurious Emissions. With this technique, spectrum measurements are performed at each output of the device, and the quantity 10 log(n) is added to the worst case spectrum value before comparing to the emission limit.

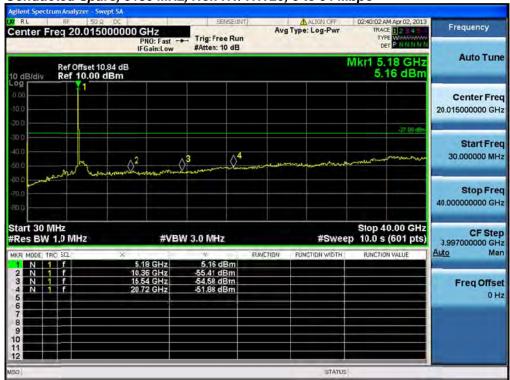
Page No: 160 of 337



Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Conducted Spur (dBm/MHz)	Total Conducted Spur (dBm/MHz)	Limit (dBm)	Margin (dB)
5400	Non HT/VHT20, 6 to 54 Mbps	2	12	<u>-51.9</u>	-36.9	-27	9.9
5180	HT/VHT20, M0 to M23, M0.1 to M9.3	3	6	<u>-49.9</u>	-39.1	-27	12.1
F190/F200	Non HT/VHT40, 6 to 54 Mbps	1	6	<u>-51.8</u>	-45.8	-27	18.8
5180/5200	HT/VHT40, M0 to M23, M0.1 to M9.3	3	6	<u>-49.6</u>	-38.8	-27	11.8
5180/5200	Non HT/VHT80, 6 to 54 Mbps	1	6	<u>-51.8</u>	-45.8	-27	18.8
5220/5240	HT/VHT80, M0 to M23, M0.1 to M9.3	4	6	<u>-52</u>	-40.0	-27	13.0
5220/5240	Non HT/VHT40, 6 to 54 Mbps	1	6	<u>-52.5</u>	-46.5	-27	19.5
5220/5240	HT/VHT40, M0 to M23, M0.1 to M9.3	4	6	<u>-52.3</u>	-40.3	-27	13.3
5240	Non HT/VHT20, 6 to 54 Mbps	2	12	<u>-52.3</u>	-37.3	-27	10.3
3240	HT/VHT20, M0 to M23, M0.1 to M9.3	4	6	<u>-52.1</u>	-40.1	-27	13.1







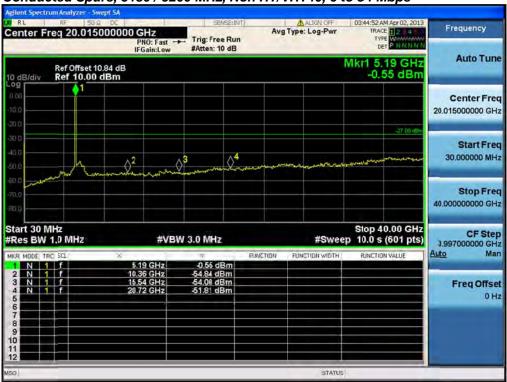
Conducted Spurs, 5180 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3



Page No: 162 of 337







Conducted Spurs, 5180 / 5200 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3



Page No: 163 of 337







Conducted Spurs, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3



Page No: 164 of 337





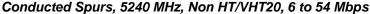


Conducted Spurs, 5220 / 5240 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3



Page No: 165 of 337







Conducted Spurs, 5240 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3



Page No: 166 of 337



Conducted Bandedge

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated elimits specified in Section 15.209(a) (see Section 15.205(c)).

Use the procedures in 718828 D01 DTS Meas Guidance v01 to substitute conducted measurements in place of ra measurements.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Be sure losses between the transmitter output and the spectrum analyzer.

Reference Level: 10 dBm Attenuation: 4 dB Sweep Time: Coupled Resolution Bandwidth: 1MHz

Video Bandwidth: 1 MHz for peak, 100 Hz for average

Detector: Peak

Save 2 plots: 1) Average Plot (Vertical and Horizontal), Limit= -41.25 dBm eirp (54dBuV @3m)

2) Peak plot (Vertical and Horizontal), Limit = -21.25 dBm eirp (74dBuV @3m)

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands.

The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approximately conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then sum athematically to determine the total emission level from the device. Summing is performed in linear power units.

This report represents the worst case data for all supported operating modes and antennas.

Page No: 167 of 337



Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Tx 4 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	Non HT/VHT20, 6 to 54 Mbps	1	6	<u>-65.5</u>				-59.5	-41.25	18.3
	Non HT/VHT20, 6 to 54 Mbps	2	6	<u>-71.7</u>	<u>-73.5</u>			-63.5	-41.25	22.2
	Non HT/VHT20, 6 to 54 Mbps	3	6	<u>-73.1</u>	<u>-76.5</u>	<u>-73.9</u>		-63.5	-41.25	22.3
	Non HT/VHT20, 6 to 54 Mbps	4	6	<u>-73.0</u>	<u>-76.7</u>	<u>-73.9</u>	<u>-75.0</u>	-62.4	-41.25	21.2
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	9	<u>-71.9</u>	<u>-73.7</u>			-60.7	-41.25	19.4
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	11	<u>-73.1</u>	<u>-76.6</u>	<u>-73.8</u>		-58.7	-41.25	17.4
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	12	<u>-73.2</u>	<u>-76.8</u>	<u>-74.0</u>	<u>-75.1</u>	-56.6	-41.25	15.3
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	6	<u>-63.5</u>				-57.5	-41.25	16.3
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	6	<u>-71.3</u>	<u>-73.4</u>			-63.2	-41.25	22.0
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	6	<u>-70.1</u>	<u>-73.1</u>			-62.3	-41.25	21.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	6	<u>-73.0</u>	<u>-76.4</u>	<u>-73.7</u>		-63.4	-41.25	22.1
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>-71.8</u>	<u>-73.6</u>	<u>-71.8</u>		-61.6	-41.25	20.3
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	6	<u>-70.7</u>	<u>-73.1</u>	<u>-71.3</u>		-60.8	-41.25	19.6
5180	HT/VHT20, M0 to M7, M0.1 to M9.1	4	6	<u>-73.1</u>	<u>-76.6</u>	<u>-73.6</u>	<u>-74.9</u>	-62.3	-41.25	21.1
L)	HT/VHT20, M8 to M15, M0.2 to M9.2	4	6	<u>-72.3</u>	<u>-74.7</u>	<u>-73.7</u>	<u>-73.9</u>	-61.5	-41.25	20.3
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	6	<u>-71.8</u>	<u>-73.6</u>	<u>-71.8</u>	<u>-73.6</u>	-60.6	-41.25	19.3
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>-71.8</u>	<u>-73.6</u>			-60.6	-41.25	19.3
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>-70.1</u>	<u>-73.1</u>			-62.3	-41.25	21.1
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>-73.0</u>	<u>-76.4</u>	<u>-73.7</u>		-58.6	-41.25	17.3
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>-71.8</u>	<u>-73.6</u>	<u>-71.8</u>		-59.8	-41.25	18.5
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>-70.7</u>	<u>-73.1</u>	<u>-71.3</u>		-60.8	-41.25	19.6
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>-73.1</u>	<u>-76.6</u>	<u>-73.7</u>	<u>-74.8</u>	-56.3	-41.25	15.1
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>-73.0</u>	<u>-76.4</u>	<u>-73.7</u>	<u>-74.5</u>	-59.2	-41.25	18.0
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>-72.0</u>	<u>-73.8</u>	<u>-72.7</u>	<u>-73.8</u>	-59.8	-41.25	18.5
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>-70.1</u>	<u>-73.1</u>			-62.3	-41.25	21.1
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>-71.8</u>	<u>-73.6</u>	<u>-71.8</u>		-61.6	-41.25	20.3
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>-72.3</u>	<u>-74.7</u>	<u>-73.7</u>	<u>-73.9</u>	-61.5	-41.25	20.3

Page No: 168 of 337



Non HT/WHT40, 6 to 54 Mbps 4 6 6 56.2 66.9 66.3 -67.3 -54.6 -41.25 13.1 HT/WHT40, M0 to M7, M0.1 to M9.1 HT/WHT40, M0 to M7, M0.1 to M9.1 2 6 57.8 -64.2 -66.9 -66.3 -67.3 -54.3 -41.25 13.1 HT/WHT40, M0 to M7, M0.1 to M9.1 2 6 57.8 -64.2 -66.9 -66.3 -67.3 -54.6 -41.25 13.5 HT/WHT40, M0 to M7, M0.1 to M9.1 2 6 57.8 -64.2 -66.9 -66.3 -67.3 -54.9 -41.25 13.5 HT/WHT40, M0 to M7, M0.1 to M9.1 3 6 6 57.0 -61.9 -49.8 -41.25 13.5 HT/WHT40, M0 to M7, M0.1 to M9.1 3 6 6 52.7 -67.1 -65.3 -53.9 -41.25 13.5 HT/WHT40, M0 to M7, M0.1 to M9.2 3 6 6 52.7 -67.1 -65.3 -53.9 -41.25 13.5 HT/WHT40, M0 to M7, M0.1 to M9.1 4 6 6 53.3 -67.8 -65.8 -5.3 -53.9 -41.25 12.6 HT/WHT40, M0 to M7, M0.1 to M9.1 4 6 6 52.9 -67.3 -65.5 -66.6 -53.5 -41.25 12.3 HT/WHT40, M0 to M7, M0.1 to M9.1 4 7 6 53.9 -67.3 -65.5 -66.6 -53.5 -41.25 12.3 HT/WHT40, M0 to M7, M0.1 to M9.1 4 6 6 52.9 -67.3 -65.5 -66.6 -53.5 -41.25 12.3 HT/WHT40 Beam Forming, M0 to M7, M0.1 to M9.1 4 7 6 6 52.9 -67.3 -65.5 -66.6 -53.5 -41.25 11.3 HT/WHT40 Beam Forming, M0 to M7, M0.1 to M9.1 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7											
Non HT/VHT40, 6 to 54 Mbps		Non HT/VHT40, 6 to 54 Mbps	1	6	<u>-50.7</u>				-44.7	-41.25	3.5
Non HT/VHT40, 6t 0 54 Mbps		Non HT/VHT40, 6 to 54 Mbps	2	6	<u>-56.2</u>	<u>-61.4</u>			-49.1	-41.25	7.8
HT/VHT40, M0 to M7, M0.1 to M9.1		Non HT/VHT40, 6 to 54 Mbps	3	6	<u>-63.3</u>	<u>-68.4</u>	<u>-66.0</u>		-54.6	-41.25	13.4
HT/WHT40, M0 to M7, M0.1 to M9.1		Non HT/VHT40, 6 to 54 Mbps	4	6	<u>-64.2</u>	<u>-68.9</u>	<u>-66.3</u>	<u>-67.3</u>	-54.3	-41.25	13.1
HT/WHT40, M8 to M15, M0.2 to M9.2 HT/WHT40, M9 to M7, M0.1 to M9.1 HT/WHT40, M9 to M7, M0.1 to M9.1 HT/WHT40, M9 to M7, M0.1 to M9.1 HT/WHT40, M9 to M23, M0.3 to M9.3 HT/WHT40, M9 to M7, M0.1 to M9.1 HT/WHT40, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M7, M0.1 to M9.1 HT/WHT40 Beam Forming, M16 to M15, M0.2 to M9.2 HT/WHT40 Beam Forming, M16 to M15, M0.2 to M9.2 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/WHT40 STBC, M0 to M7, M0.1 to M9.1 HT/WHT80, H0 to M24, M0.1 to M9.1 HT/WHT80, M16 to S4 Mbps HT/WHT80, M16 to M24 Mbps HT/WHT80, M16 to M24, M0.1 to M9.1 HT/WHT80, M16 to		HT/VHT40, M0 to M7, M0.1 to M9.1	1	6	<u>-52.7</u>				-46.7	-41.25	5.5
HT/WHT40, M0 to M7, M0.1 to M9.1 3 6 63.6 68.2 65.8 -54.7 41.25 13.5 HT/WHT40, MS to M15, M0.2 to M9.2 3 6 62.7 67.1 65.3 -53.9 41.25 12.6 HT/WHT40, M16 to M23, M0.3 to M9.3 3 6 62.7 67.1 65.3 -53.9 41.25 12.6 HT/WHT40, M16 to M23, M0.3 to M9.1 4 6 64.1 70.5 70.9 67.3 55.3 41.25 12.6 HT/WHT40, M16 to M23, M0.3 to M9.2 4 6 63.3 67.8 65.7 66.6 53.5 41.25 12.9 HT/WHT40, M16 to M23, M0.3 to M9.3 4 6 62.9 67.3 65.5 66.3 53.2 41.25 11.9 HT/WHT40 Beam Forming, M10 to M7, M0.1 to M9.1 2 9 62.9 67.3 65.5 66.3 53.2 41.25 11.9 HT/WHT40 Beam Forming, M10 to M7, M0.1 to M9.1 3 11 64.1 70.5 70.9 51.7 41.25 10.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 62.7 67.1 65.3 53.9 41.25 12.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 62.7 67.1 65.3 53.9 41.25 12.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 62.7 67.1 65.3 53.9 41.25 12.6 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 62.7 67.1 65.3 53.9 41.25 12.6 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 11.9 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 12.6 HT/WHT40 STBC, M0 to M7, M0.1 to M9.1 3 6 62.7 67.1 65.3 65.3 41.25 12.6 HT/WHT40 STBC, M0 to M7, M0.1 to M9.1 3 6 62.7 67.1 65.3 65.7 66.6 52.3 41.25 12.6 HT/WHT80, 6 to 54 Mbps 2 6 65.0 66.0 65.7 66.6 52.3 41.25 12.6 HT/WHT80, M0 to M7, M0.1 to M9.1 1 6 64.6 66.6 66.8 66.5 51.9 41.25 10.7 HT/WHT80, M0 to M7, M0.1 to M9.1 1 6 62.0 62.4 63.3 63.2 41.25 11.9 HT/WHT80, M0 to M7, M0.1 to M9.1 1 6 62.0 62.4 63.3 63.9 64.0 49.1 41.25 5.7 HT/WHT80, M16 to M23, M0.3 to M9.3 3 6 62.0 62.4 63.3 63.9		HT/VHT40, M0 to M7, M0.1 to M9.1	2	6	<u>-57.8</u>	<u>-64.2</u>			-50.9	-41.25	9.7
HT/VHT40, M8 to M15, M0.2 to M9.2 HT/VHT40, M16 to M23, M0.3 to M9.3 HT/VHT40, M16 to M23, M0.3 to M9.3 HT/VHT40, M16 to M23, M0.3 to M9.3 HT/VHT40, M16 to M23, M0.3 to M9.2 HT/VHT40, M16 to M15, M0.2 to M9.2 HT/VHT40, M16 to M15, M0.2 to M9.2 HT/VHT40, M16 to M23, M0.3 to M9.3 HT/VHT40, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3 HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT80, G to 54 Mbps HT/VHT80, G to 54 Mbps HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M1 to M0.3, M0.3 to M9.3 HT/VHT80, M1 to M0		HT/VHT40, M8 to M15, M0.2 to M9.2	2	6	<u>-57.0</u>	<u>-61.9</u>			-49.8	-41.25	8.5
HT/WHT40, M16 to M23, M0.3 to M9.3 3 6 62.7 67.1 65.3 53.9 41.25 12.6 HT/WHT40, M10 to M7, M0.1 to M9.1 4 6 64.1 70.5 70.9 67.3 55.3 41.25 14.0 HT/WHT40, M16 to M23, M0.3 to M9.2 4 6 64.3 67.3 65.5 66.6 53.5 41.25 12.3 HT/WHT40, M16 to M23, M0.3 to M9.3 4 6 62.3 67.3 65.5 66.6 53.5 41.25 12.3 HT/WHT40 Beam Forming, M10 to M7, M0.1 to M9.1 2 9 62.9 67.3 65.5 66.6 53.5 41.25 11.3 HT/WHT40 Beam Forming, M16 to M7, M0.1 to M9.1 3 11 64.1 70.5 70.9 -51.7 41.25 10.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 8 63.3 67.8 65.7 65.3 53.9 41.25 11.4 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 8 63.3 67.8 65.7 65.3 53.9 41.25 11.4 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 62.7 67.1 65.3 65.3 65.1 64.1 51.0 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 11.9 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 11.9 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 11.1 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 11.1 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 11.1 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 52.3 41.25 11.1 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 53.9 41.25 12.6 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 63.3 67.8 65.7 66.6 53.9 41.25 12.6 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 6 63.0 62.4 60.6 60.6 60.6 60.5 60		HT/VHT40, M0 to M7, M0.1 to M9.1	3	6	<u>-63.6</u>	<u>-68.2</u>	<u>-65.8</u>		-54.7	-41.25	13.5
HT/VHT40, M0 to M7, M0.1 to M9.1		HT/VHT40, M8 to M15, M0.2 to M9.2	3	6	<u>-62.7</u>	<u>-67.1</u>	<u>-65.3</u>		-53.9	-41.25	12.6
HT/VHT40, M8 to M15, M0.2 to M9.2		HT/VHT40, M16 to M23, M0.3 to M9.3	3	6	<u>-62.7</u>	<u>-67.1</u>	<u>-65.3</u>		-53.9	-41.25	12.6
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 57.0 51.9	8	HT/VHT40, M0 to M7, M0.1 to M9.1	4	6	<u>-64.1</u>	<u>-70.5</u>	<u>-70.9</u>	<u>-67.3</u>	-55.3	-41.25	14.0
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 57.0 51.9	,25(HT/VHT40, M8 to M15, M0.2 to M9.2	4	6	<u>-63.3</u>	<u>-67.8</u>	<u>-65.7</u>	<u>-66.6</u>	-53.5	-41.25	12.3
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 57.0 51.9	/08	HT/VHT40, M16 to M23, M0.3 to M9.3	4	6	-62.9	<u>-67.3</u>	<u>-65.5</u>	-66.3	-53.2	-41.25	11.9
HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	51	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	-62.9	-67.3			-52.6	-41.25	11.3
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2		HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>-57.0</u>	-61.9			-49.8	-41.25	8.5
HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3		HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>-64.1</u>	<u>-70.5</u>	<u>-70.9</u>		-51.7	-41.25	10.5
HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1		HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	-63.3	<u>-67.8</u>	<u>-65.7</u>		-52.6	-41.25	11.4
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2		HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	-62.7	<u>-67.1</u>	<u>-65.3</u>		-53.9	-41.25	12.6
HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3		HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	-69.3	-73.3	<u>-71.1</u>	<u>-72.1</u>	-53.2	-41.25	11.9
HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT80, 6 to 54 Mbps Non HT/VHT80, 6 to 54 Mbps HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.2 HT/VHT80, M0 to M7, M0.1 to M9.3 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M23, M0.3 to M9.3 HT/VHT80, M0 to M23, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M0 to M15, M0.2 to M9.2 HT/VHT80 B		HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>-63.8</u>	-68.4	<u>-67.9</u>	<u>-67.1</u>	-51.4	-41.25	10.1
HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT80, G to 54 Mbps Non HT/VHT80, G to 54 Mbps HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M23, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2		HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	-63.3	<u>-67.8</u>	<u>-65.7</u>	-66.6	-52.3	-41.25	11.1
HT/VHT40 STBC, M0 to M7, M0.1 to M9.1		HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>-57.0</u>	<u>-61.9</u>			-49.8	-41.25	8.5
Non HT/VHT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	6	-62.7	<u>-67.1</u>	<u>-65.3</u>		-53.9	-41.25	12.6
Non HT/VHT80, 6 to 54 Mbps 2 6 57.3 59.9 -49.4 -41.25 8.1 Non HT/VHT80, 6 to 54 Mbps 3 6 6 60.1 64.1 58.0 -49.3 -41.25 8.1 Non HT/VHT80, 6 to 54 Mbps 4 6 6 64.6 66.6 66.6 66.8 -66.5 -51.9 -41.25 10.7 HT/VHT80, M0 to M7, M0.1 to M9.1 1 6 -54.0 -62.0 62.4 -53.2 -41.25 11.9 HT/VHT80, M0 to M7, M0.1 to M9.1 3 6 -57.9 -55.4 62.8 -47.0 -41.25 5.7 HT/VHT80, M16 to M23, M0.3 to M9.3 3 6 -57.9 -55.4 62.8 -47.0 -41.25 5.7 HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -47.4 -41.25 11.9		HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	6	-63.3	-67.8	-65.7	-66.6	-53.5	-41.25	12.3
Non HT/VHT80, 6 to 54 Mbps 2 6 57.3 59.9 -49.4 -41.25 8.1 Non HT/VHT80, 6 to 54 Mbps 3 6 6 60.1 64.1 58.0 -49.3 -41.25 8.1 Non HT/VHT80, 6 to 54 Mbps 4 6 6 64.6 66.6 66.6 66.8 -66.5 -51.9 -41.25 10.7 HT/VHT80, M0 to M7, M0.1 to M9.1 1 6 -54.0 -62.0 62.4 -53.2 -41.25 11.9 HT/VHT80, M0 to M7, M0.1 to M9.1 3 6 -57.9 -55.4 62.8 -47.0 -41.25 5.7 HT/VHT80, M16 to M23, M0.3 to M9.3 3 6 -57.9 -55.4 62.8 -47.0 -41.25 5.7 HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -47.4 -41.25 11.9											
Non HT/VHT80, 6 to 54 Mbps		Non HT/VHT80, 6 to 54 Mbps	1	6	<u>-50.2</u>				-44.2	-41.25	3.0
Non HT/VHT80, 6 to 54 Mbps HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 t		Non HT/VHT80, 6 to 54 Mbps	2	6	<u>-57.3</u>	<u>-59.9</u>			-49.4	-41.25	8.1
HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VH		Non HT/VHT80, 6 to 54 Mbps	3	6	<u>-60.1</u>	-64.1	<u>-58.0</u>		-49.3	-41.25	8.1
HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M		Non HT/VHT80, 6 to 54 Mbps	4	6	-64.6	-66.6	-60.8	-66.5	-51.9	-41.25	10.7
HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -63.9 -64.0 -49.1 -41.25 7.8 -47.4 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 1 1.9	0	HT/VHT80, M0 to M7, M0.1 to M9.1	1	6	-54.0				-48.0	-41.25	6.8
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9	524	HT/VHT80, M0 to M7, M0.1 to M9.1	2	6	-62.0	-62.4			-53.2	-41.25	11.9
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9	707	HT/VHT80, M8 to M15, M0.2 to M9.2	2	6	-62.0	-62.4			-53.2	-41.25	11.9
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9	525	HT/VHT80, M0 to M7, M0.1 to M9.1	3	6	<u>-57.9</u>	<u>-55.4</u>	<u>-62.8</u>		-47.0	-41.25	5.7
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9	/00	HT/VHT80, M8 to M15, M0.2 to M9.2	3	6	-57.9	-55.4	-62.8		-47.0	-41.25	5.7
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9	/52	HT/VHT80, M16 to M23, M0.3 to M9.3	3	6	-57.9		-62.8		-47.0	-41.25	5.7
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9	081	HT/VHT80, M0 to M7, M0.1 to M9.1	4	6	-63.6		-66.1	-66.0	-51.7	-41.25	10.5
HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -61.0 -58.2 -63.9 -64.0 -49.1 -41.25 7.8 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -47.4 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9	51		4	6			_	-64.0	-49.1	-41.25	7.8
HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -61.0 -58.2 -47.4 -41.25 6.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -62.0 -62.4 -53.2 -41.25 11.9			4	6							
HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 <u>-62.0</u> <u>-62.4</u> -53.2 -41.25 11.9			2	9					-47.4		
			2	6	-62.0	-62.4			-53.2	-41.25	11.9
0.0 11.25 0.0		HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	-68.4	-64.1	<u>-65.3</u>		-50.0	-41.25	8.8

Page No: 169 of 337



HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>-63.6</u>	<u>-61.2</u>	<u>-66.1</u>		-50.6	-41.25	9.4
HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>-57.9</u>	<u>-55.4</u>	<u>-62.8</u>		-47.0	-41.25	5.7
HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>-66.0</u>	<u>-63.3</u>	<u>-70.6</u>	<u>-68.1</u>	-48.2	-41.25	6.9
HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>-66.8</u>	<u>-66.5</u>	<u>-68.2</u>	<u>-69.4</u>	-52.6	-41.25	11.3
HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>-63.6</u>	<u>-61.2</u>	<u>-66.1</u>	<u>-66.0</u>	-50.5	-41.25	9.3
HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>-62.0</u>	<u>-62.4</u>			-53.2	-41.25	11.9
HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>-57.9</u>	<u>-55.4</u>	<u>-62.8</u>		-47.0	-41.25	5.7
HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>-61.0</u>	<u>-58.2</u>	<u>-63.9</u>	<u>-64.0</u>	-49.1	-41.25	7.8

Page No: 170 of 337



Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Tx 4 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	Non HT/VHT20, 6 to 54 Mbps	1	6	<u>-56.4</u>				-50.4	-21.25	29.2
	Non HT/VHT20, 6 to 54 Mbps	2	6	<u>-62.1</u>	<u>-66.0</u>			-54.6	-21.25	33.4
	Non HT/VHT20, 6 to 54 Mbps	3	6	<u>-66.6</u>	<u>-66.2</u>	<u>-66.3</u>		-55.6	-21.25	34.3
	Non HT/VHT20, 6 to 54 Mbps	4	6	<u>-65.3</u>	<u>-66.9</u>	<u>-64.6</u>	<u>-65.3</u>	-53.4	-21.25	32.2
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	9	<u>-63.9</u>	<u>-63.4</u>			-51.6	-21.25	30.4
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	11	<u>-63.5</u>	<u>-66.6</u>	<u>-64.9</u>		-49.2	-21.25	28.0
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	12	<u>-65.7</u>	<u>-65.6</u>	<u>-66.2</u>	<u>-65.1</u>	-47.6	-21.25	26.4
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	6	<u>-49.2</u>				-43.2	-21.25	22.0
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	6	<u>-62.9</u>	<u>-64.4</u>			-54.6	-21.25	33.3
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	6	<u>-59.8</u>	<u>-65.2</u>			-52.7	-21.25	31.4
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	6	<u>-66.0</u>	<u>-66.9</u>	<u>-63.9</u>		-54.6	-21.25	33.4
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>-64.5</u>	<u>-65.3</u>	<u>-62.6</u>		-53.2	-21.25	32.0
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	6	<u>-62.0</u>	<u>-67.1</u>	<u>-61.3</u>		-52.0	-21.25	30.8
5180	HT/VHT20, M0 to M7, M0.1 to M9.1	4	6	<u>-66.4</u>	<u>-66.8</u>	<u>-67.6</u>	<u>-66.0</u>	-54.6	-21.25	33.4
L)	HT/VHT20, M8 to M15, M0.2 to M9.2	4	6	<u>-62.4</u>	<u>-63.5</u>	<u>-65.9</u>	<u>-61.7</u>	-51.1	-21.25	29.8
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	6	<u>-64.5</u>	<u>-65.3</u>	<u>-62.6</u>	<u>-65.7</u>	-52.3	-21.25	31.1
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>-64.5</u>	<u>-65.3</u>			-52.9	-21.25	31.6
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>-59.8</u>	<u>-65.2</u>			-52.7	-21.25	31.4
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>-66.0</u>	<u>-66.9</u>	<u>-63.9</u>		-49.8	-21.25	28.6
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>-64.5</u>	<u>-65.3</u>	<u>-62.6</u>		-51.4	-21.25	30.2
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>-62.0</u>	<u>-67.1</u>	<u>-61.3</u>		-52.0	-21.25	30.8
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>-65.3</u>	<u>-65.9</u>	<u>-64.6</u>	<u>-65.8</u>	-47.3	-21.25	26.1
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>-66.0</u>	<u>-66.9</u>	<u>-63.9</u>	<u>-65.0</u>	-50.3	-21.25	29.0
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>-62.4</u>	<u>-64.7</u>	<u>-62.7</u>	<u>-62.9</u>	-49.9	-21.25	28.6
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>-59.8</u>	<u>-65.2</u>			-52.7	-21.25	31.4
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>-64.5</u>	<u>-65.3</u>	<u>-62.6</u>		-53.2	-21.25	32.0
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>-62.4</u>	<u>-63.5</u>	<u>-65.9</u>	<u>-61.7</u>	-51.1	-21.25	29.8

Page No: 171 of 337



Non HT/NHT40, 6 to 54 Mbps											
Non HT/VHT40, 6 to 54 Mbps		Non HT/VHT40, 6 to 54 Mbps	1	6	<u>-40.9</u>				-34.9	-21.25	13.7
Non HT/VHT40, 6t 0 54 Mbps		Non HT/VHT40, 6 to 54 Mbps	2	6	<u>-42.2</u>	<u>-53.9</u>			-35.9	-21.25	14.7
HT/VHT40, M0 to M7, M0.1 to M9.1		Non HT/VHT40, 6 to 54 Mbps	3	6	<u>-58.3</u>	<u>-62.9</u>	<u>-61.0</u>		-49.5	-21.25	28.3
HT/WHT40, M0 to M7, M0.1 to M9.1		Non HT/VHT40, 6 to 54 Mbps	4	6	<u>-58.5</u>	<u>-63.3</u>	<u>-59.7</u>	<u>-61.1</u>	-48.3	-21.25	27.0
HT/WHT40, M8 to M15, M0.2 to M9.2		HT/VHT40, M0 to M7, M0.1 to M9.1	1	6	<u>-43.6</u>				-37.6	-21.25	16.4
HT/VHT40, M0 to M7, M0.1 to M9.1 3 6 55.7 62.4 60.3 49.0 -21.25 27.8		HT/VHT40, M0 to M7, M0.1 to M9.1	2	6	<u>-49.4</u>	<u>-55.5</u>			-42.4	-21.25	21.2
HT/VHT40, M8 to M15, M0.2 to M9.2 HT/VHT40, M16 to M23, M0.3 to M9.3 B		HT/VHT40, M8 to M15, M0.2 to M9.2	2	6	<u>-49.8</u>	<u>-55.3</u>			-42.7	-21.25	21.5
HT/WHT40, M16 to M23, M0.3 to M9.3 3 6 -53.7 -53.7 -52.8 -44.8 -21.25 -26.7 HT/WHT40, M16 to M7, M0.1 to M9.1 4 6 -57.0 -62.9 -65.9 -59.1 -48.0 -21.25 -26.7 HT/WHT40, M16 to M23, M0.3 to M9.3 4 6 -57.0 -58.1 -60.1 -59.2 -60.5 -47.4 -21.25 -26.8 HT/WHT40, M16 to M23, M0.3 to M9.3 4 6 -57.3 -52.7 -58.9 -58.9 -47.0 -21.25 -25.9 HT/WHT40 Beam Forming, M10 to M7, M0.1 to M9.1 2 9 -57.3 -62.7 -58.9 -58.9 -47.0 -21.25 -25.9 HT/WHT40 Beam Forming, M16 to M15, M0.2 to M9.2 2 6 -49.8 -55.3 -60.1 -59.2 -46.5 -21.25 -21.25 -21.25 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 -53.7 -62.3 -57.4 -46.5 -21.25 -22.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 -53.7 -62.3 -57.4 -46.5 -21.25 -22.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 3 6 -53.7 -62.3 -57.4 -45.8 -21.25 -22.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 -58.1 -60.1 -59.2 -60.5 -46.2 -21.25 -24.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 -58.1 -60.1 -59.2 -60.5 -46.2 -21.25 -21.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 -58.1 -60.1 -59.2 -60.5 -42.7 -21.25 -21.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 -58.1 -60.1 -59.2 -60.5 -42.7 -21.25 -21.5 HT/WHT40 Beam Forming, M16 to M9.3 M0.3 to M9.3 4 7 -58.1 -60.1 -59.2 -60.5 -42.7 -21.25 -21.5 HT/WHT40 Beam Forming, M16 to M23, M0.3 to M9.3 4 7 -58.1 -60.1 -59.2 -60.5 -42.7 -21.25 -21.5 HT/WHT40 STBC, M0 to M7, M0.1 to M9.1 4 6 -49.8 -55.3 -59.4 -42.6 -21.25 -21.25 -21.25 HT/WHT80, 6 to 54 Mbps 4 6 -58.1 -60.1 -59.2 -60.5 -47.4 -21.25 -21.25 -21.25 HT/WHT80, M16 to M23, M0.3 to M9.3 3 6 -48.2 -50.6 -54.6 -39.6 -39.6 -21.25 -21.25 -21.25 -21.25 -21.25 -21.25 -21.25		HT/VHT40, M0 to M7, M0.1 to M9.1	3	6	<u>-57.9</u>	<u>-62.4</u>	<u>-60.3</u>		-49.0	-21.25	27.8
HT/VHT40, M0 to M7, M0.1 to M9.1		HT/VHT40, M8 to M15, M0.2 to M9.2	3	6	<u>-53.7</u>	<u>-62.3</u>	<u>-57.4</u>		-45.8	-21.25	24.5
HT/VHT40, M8 to M15, M0.2 to M9.2		HT/VHT40, M16 to M23, M0.3 to M9.3	3	6	<u>-53.7</u>	<u>-62.3</u>	<u>-57.4</u>		-45.8	-21.25	24.5
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 6 49.8 55.3	8	HT/VHT40, M0 to M7, M0.1 to M9.1	4	6	<u>-57.0</u>	<u>-62.9</u>	<u>-65.9</u>	<u>-59.1</u>	-48.0	-21.25	26.7
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 6 49.8 55.3	,25(HT/VHT40, M8 to M15, M0.2 to M9.2	4	6	<u>-58.1</u>	<u>-60.1</u>	<u>-59.2</u>	<u>-60.5</u>	-47.4	-21.25	26.1
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 6 49.8 55.3	80/	HT/VHT40, M16 to M23, M0.3 to M9.3	4	6	<u>-57.3</u>	<u>-62.7</u>	<u>-58.9</u>	<u>-58.9</u>	-47.0	-21.25	25.8
HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	51	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>-57.3</u>	<u>-62.7</u>			-47.2	-21.25	25.9
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2		HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>-49.8</u>	<u>-55.3</u>			-42.7	-21.25	21.5
HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3		HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>-57.0</u>	<u>-62.9</u>	<u>-65.9</u>		-44.8	-21.25	23.5
HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1		HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>-58.1</u>	<u>-60.1</u>	<u>-59.2</u>		-46.5	-21.25	25.2
HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2		HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>-53.7</u>	<u>-62.3</u>	<u>-57.4</u>		-45.8	-21.25	24.5
HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3		HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>-62.8</u>	<u>-64.8</u>	<u>-64.8</u>	<u>-65.0</u>	-46.2	-21.25	25.0
HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT80, G to 54 Mbps Non HT/VHT80, 6 to 54 Mbps Non HT/VHT80, G to 54 Mbps Non HT/VHT80, G to 54 Mbps HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.2 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M23, M0.3 to M9.3 HT/VHT80, M0 to M23, M0.3 to M9.3		HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>-56.1</u>	<u>-60.3</u>	<u>-57.0</u>	<u>-59.3</u>	-42.8	-21.25	21.6
HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT40 STBC, M0 to M7, M0.1 to M9.1 HT/VHT80, G to 54 Mbps Non HT/VHT80, G to 54 Mbps HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M23, M0.3 to M9.3 HT/VHT80, M8 to M24, M25 to M9.2 HT/VHT80, M8 to M24, M25 to M		HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>-58.1</u>	<u>-60.1</u>	<u>-59.2</u>	<u>-60.5</u>	-46.2	-21.25	24.9
HT/VHT40 STBC, M0 to M7, M0.1 to M9.1		HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>-49.8</u>	<u>-55.3</u>			-42.7	-21.25	21.5
Non HT/VHT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>-53.7</u>	<u>-62.3</u>	<u>-57.4</u>		-45.8	-21.25	24.5
Non HT/VHT80, 6 to 54 Mbps 2 6 -46.0 -49.8 -38.5 -21.25 17.2 Non HT/VHT80, 6 to 54 Mbps 3 6 -48.2 -50.6 -54.6 -39.6 -21.25 18.4 Non HT/VHT80, 6 to 54 Mbps 4 6 -56.1 -54.0 -53.2 -59.7 -43.1 -21.25 21.9 HT/VHT80, M0 to M7, M0.1 to M9.1 1 6 -40.7 -34.7 -21.25 13.5 HT/VHT80, M0 to M7, M0.1 to M9.1 2 6 -53.4 -50.3 -42.6 -21.25 21.3 HT/VHT80, M0 to M7, M0.1 to M9.1 3 6 -46.7 -47.4 -52.3 -37.4 -21.25 16.2 HT/VHT80, M16 to M23, M0.3 to M9.3 3 6 -46.7 -47.4 -52.3 -37.4 -21.25 16.2 HT/VHT80, M8 to M15, M0.2 to M9.2 3 6 -46.7 -47.4 -52.3 -37.4 -21.25 16.2 HT/VHT80, M0 to M7, M0.1 to M9.1 4 6 -48.5 -51.3 -58.6 -55.9 -39.9 -21.25 18.7 HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3		HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>-58.1</u>	<u>-60.1</u>	<u>-59.2</u>	<u>-60.5</u>	-47.4	-21.25	26.1
Non HT/VHT80, 6 to 54 Mbps 2 6 -46.0 -49.8 -38.5 -21.25 17.2 Non HT/VHT80, 6 to 54 Mbps 3 6 -48.2 -50.6 -54.6 -39.6 -21.25 18.4 Non HT/VHT80, 6 to 54 Mbps 4 6 -56.1 -54.0 -53.2 -59.7 -43.1 -21.25 21.9 HT/VHT80, M0 to M7, M0.1 to M9.1 1 6 -40.7 -34.7 -21.25 13.5 HT/VHT80, M0 to M7, M0.1 to M9.1 2 6 -53.4 -50.3 -42.6 -21.25 21.3 HT/VHT80, M0 to M7, M0.1 to M9.1 3 6 -46.7 -47.4 -52.3 -37.4 -21.25 16.2 HT/VHT80, M16 to M23, M0.3 to M9.3 3 6 -46.7 -47.4 -52.3 -37.4 -21.25 16.2 HT/VHT80, M8 to M15, M0.2 to M9.2 3 6 -46.7 -47.4 -52.3 -37.4 -21.25 16.2 HT/VHT80, M0 to M7, M0.1 to M9.1 4 6 -48.5 -51.3 -58.6 -55.9 -39.9 -21.25 18.7 HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3											
Non HT/VHT80, 6 to 54 Mbps A 6 -48.2 -50.6 -54.6 -39.6 -21.25 18.4 Non HT/VHT80, 6 to 54 Mbps		Non HT/VHT80, 6 to 54 Mbps	1	6	<u>-29.8</u>				-23.8	-21.25	2.6
Non HT/VHT80, 6 to 54 Mbps HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M8 to M15, M0.3 to M9.3 HT/VHT80, M8 to M15, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 13.5 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2		Non HT/VHT80, 6 to 54 Mbps	2	6	<u>-46.0</u>	<u>-49.8</u>			-38.5	-21.25	17.2
HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M0 to M7, M0.1 to M9.1 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80, M8 to M15, M0.2 to M9.2 HT/VHT80, M16 to M23, M0.3 to M9.3 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 HT/VHT80 Beam Formi		Non HT/VHT80, 6 to 54 Mbps	3	6	<u>-48.2</u>	<u>-50.6</u>	<u>-54.6</u>		-39.6	-21.25	18.4
HT/VHT80, M0 to M7, M0.1 to M9.1 2 6 -53.4 -50.3 HT/VHT80, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 HT/VHT80, M0 to M7, M0.1 to M9.1 3 6 -46.7 -47.4 -52.3 HT/VHT80, M8 to M15, M0.2 to M9.2 3 6 -46.7 -47.4 -52.3 HT/VHT80, M16 to M23, M0.3 to M9.3 3 6 -46.7 -47.4 -52.3 HT/VHT80, M0 to M7, M0.1 to M9.1 4 6 -48.5 -51.3 -58.6 -55.9 -39.9 -21.25 18.7 HT/VHT80, M16 to M23, M0.3 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -58.4 -53.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6		Non HT/VHT80, 6 to 54 Mbps	4	6	<u>-56.1</u>	<u>-54.0</u>	<u>-53.2</u>	<u>-59.7</u>	-43.1	-21.25	21.9
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -50.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	0	HT/VHT80, M0 to M7, M0.1 to M9.1	1	6	<u>-40.7</u>				-34.7	-21.25	13.5
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -50.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	524	HT/VHT80, M0 to M7, M0.1 to M9.1	2	6	<u>-53.4</u>	<u>-50.3</u>			-42.6	-21.25	21.3
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -50.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	20/	HT/VHT80, M8 to M15, M0.2 to M9.2	2	6	<u>-53.4</u>	<u>-50.3</u>			-42.6	-21.25	21.3
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -50.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	/52	HT/VHT80, M0 to M7, M0.1 to M9.1	3	6	<u>-46.7</u>	<u>-47.4</u>	<u>-52.3</u>		-37.4	-21.25	16.2
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -50.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	000	HT/VHT80, M8 to M15, M0.2 to M9.2	3	6	<u>-46.7</u>	<u>-47.4</u>	<u>-52.3</u>		-37.4	-21.25	16.2
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -50.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	/52	HT/VHT80, M16 to M23, M0.3 to M9.3	3	6	<u>-46.7</u>	-47.4	-52.3		-37.4	-21.25	16.2
HT/VHT80, M8 to M15, M0.2 to M9.2 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80, M16 to M23, M0.3 to M9.3 4 6 -49.4 -48.1 -58.4 -53.3 -38.8 -21.25 17.6 HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -50.3 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	180	HT/VHT80, M0 to M7, M0.1 to M9.1	4	6	<u>-48.5</u>	<u>-51.3</u>	<u>-58.6</u>	<u>-55.9</u>	-39.9	-21.25	18.7
HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 2 9 -49.4 -48.1 -36.7 -21.25 15.4 HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 -53.4 -50.3 -42.6 -21.25 21.3	5	HT/VHT80, M8 to M15, M0.2 to M9.2	4	6	<u>-49.4</u>	-48.1	<u>-58.4</u>	<u>-53.3</u>	-38.8	-21.25	17.6
HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2 2 6 <u>-53.4</u> <u>-50.3</u> -42.6 -21.25 21.3		HT/VHT80, M16 to M23, M0.3 to M9.3	4	6	<u>-49.4</u>	<u>-48.1</u>	<u>-58.4</u>	<u>-53.3</u>	-38.8	-21.25	17.6
		HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>-49.4</u>	-48.1			-36.7	-21.25	15.4
HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1 3 11 <u>-59.6</u> <u>-51.7</u> <u>-52.7</u> -38.0 -21.25 16.7		HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	-53.4	-50.3			-42.6	-21.25	21.3
		HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>-59.6</u>	<u>-51.7</u>	<u>-52.7</u>		-38.0	-21.25	16.7

Page No: 172 of 337



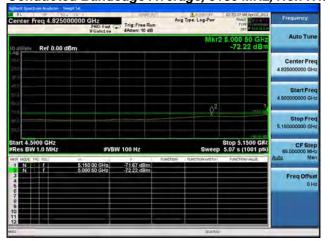
HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>-48.5</u>	<u>-51.3</u>	<u>-58.6</u>		-38.6	-21.25	17.3
HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>-46.7</u>	<u>-47.4</u>	<u>-52.3</u>		-37.4	-21.25	16.2
HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>-54.9</u>	<u>-54.1</u>	<u>-59.1</u>	<u>-57.5</u>	-37.9	-21.25	16.7
HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>-57.9</u>	<u>-57.6</u>	<u>-59.2</u>	<u>-62.9</u>	-43.9	-21.25	22.7
HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>-48.5</u>	<u>-51.3</u>	<u>-58.6</u>	<u>-55.9</u>	-38.7	-21.25	17.5
HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>-53.4</u>	<u>-50.3</u>			-42.6	-21.25	21.3
HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>-46.7</u>	<u>-47.4</u>	<u>-52.3</u>		-37.4	-21.25	16.2
HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>-49.4</u>	<u>-48.1</u>	<u>-58.4</u>	<u>-53.3</u>	-38.8	-21.25	17.6

Page No: 173 of 337











Antenna A Antenna B

Page No: 175 of 337

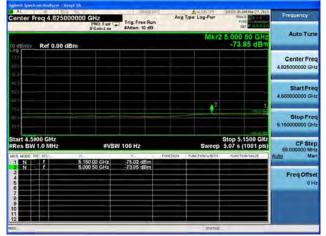






Antenna A

Antenna B



Antenna C



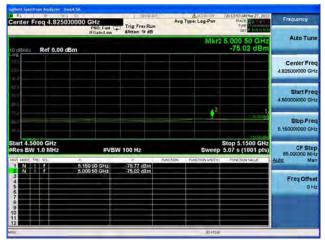




Antenna C



Antenna B



Antenna D



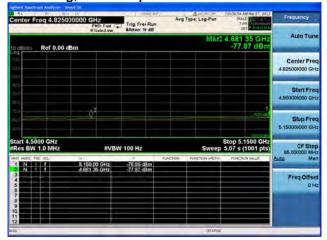




Antenna A Antenna B

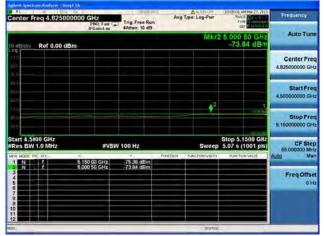






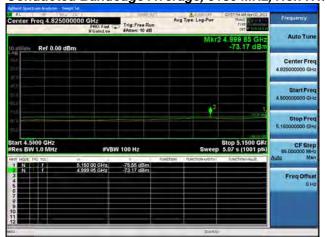
Antenna A

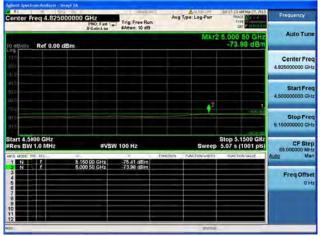
Antenna B



Antenna C



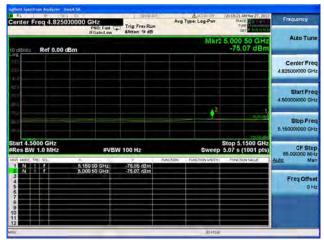




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



Antenna A

Page No: 181 of 337



Conducted Bandedge Average, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



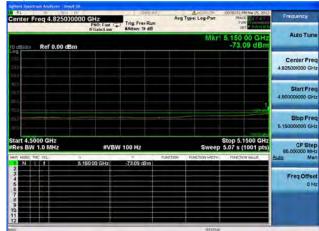


Antenna A Antenna B



Conducted Bandedge Average, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



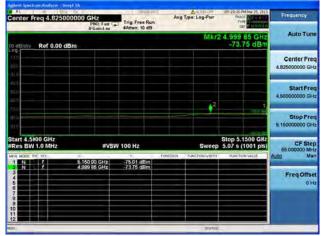
Conducted Bandedge Average, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1





Antenna A

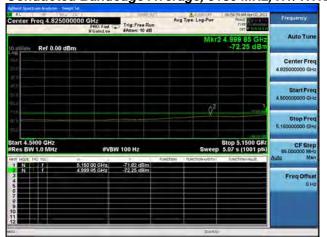
Antenna B

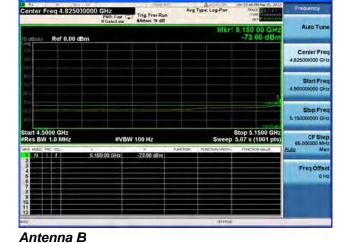


Antenna C



Conducted Bandedge Average, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2





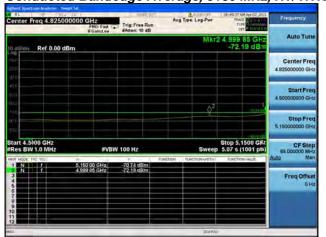
7.....

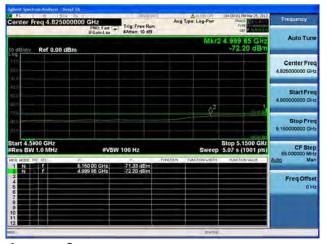


Antenna C

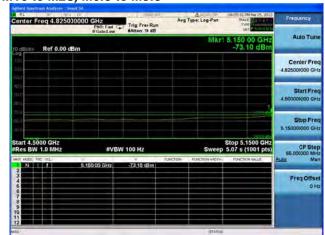


Conducted Bandedge Average, 5180 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3





Antenna C



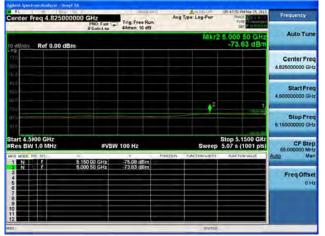
Antenna B



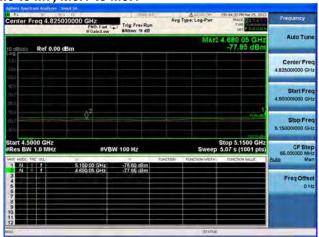
Conducted Bandedge Average, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



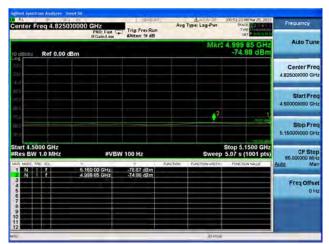
Antenna A



Antenna C



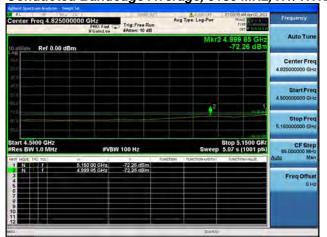
Antenna B



Antenna D

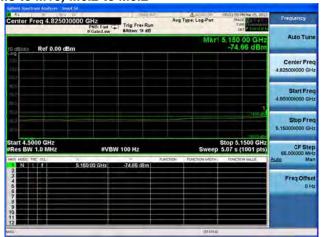


Conducted Bandedge Average, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2

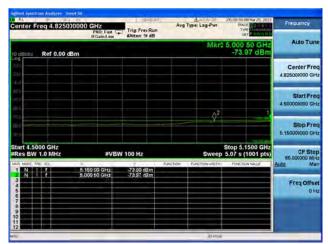




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3

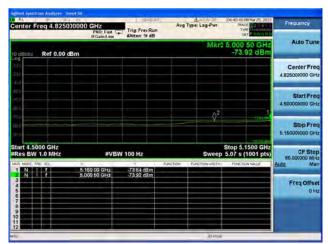




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1

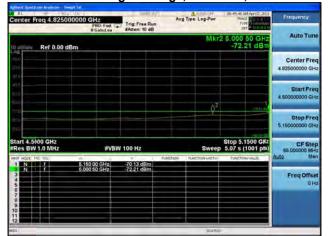




Antenna A Antenna B



Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



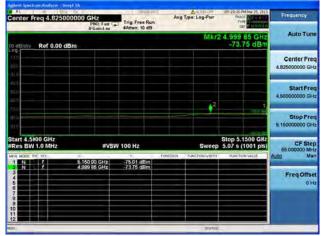
Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A

Antenna L

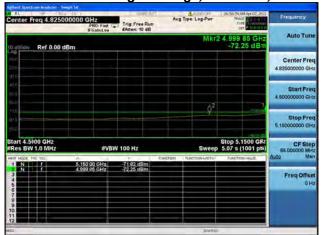


Antenna C



Center Fre

Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2







Antenna C



Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna A

Auto Tune
10 distribution Ref 0.00 dBm
10 dis

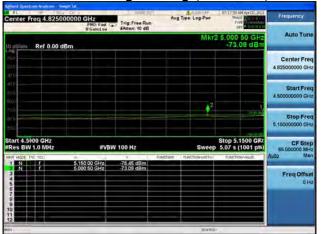
Antenna C

Page No: 194 of 337

Antenna B



Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



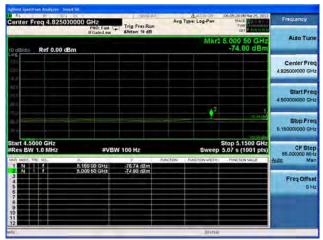
Antenna A



Antenna C



Antenna B

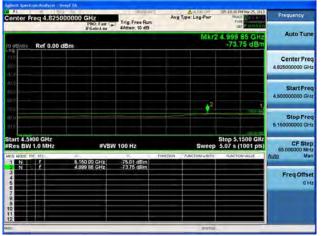


Antenna D

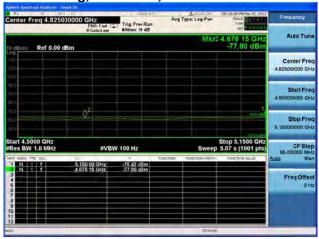


Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2

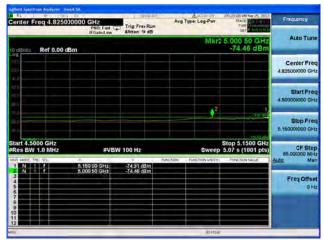




Antenna C



Antenna B



Antenna D

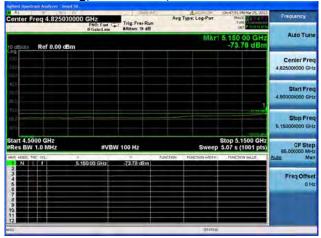


Conducted Bandedge Average, 5180 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3

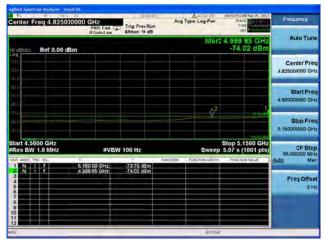




Antenna C



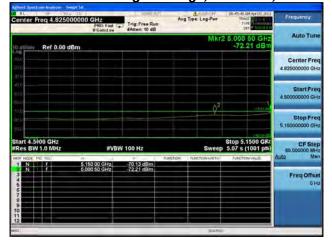
Antenna B



Antenna D



Conducted Bandedge Average, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1

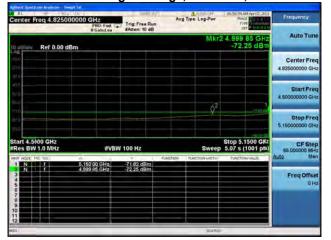




Antenna A Antenna B



Conducted Bandedge Average, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1





Antenna A

Antenna B



Antenna C



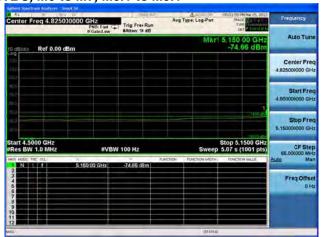
Conducted Bandedge Average, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



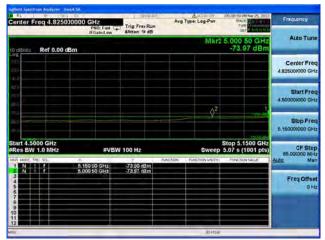
Antenna A



Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps



Antenna A

Page No: 201 of 337



Conducted Bandedge Average, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps

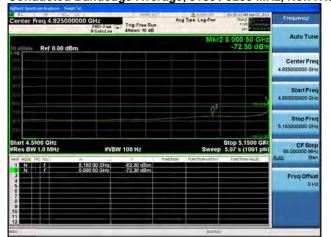


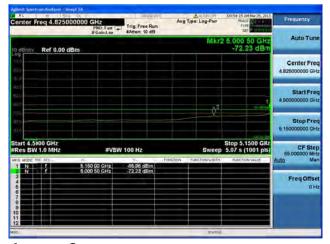


Antenna A Antenna B

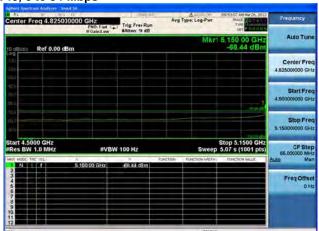


Conducted Bandedge Average, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps





Antenna C



Antenna B

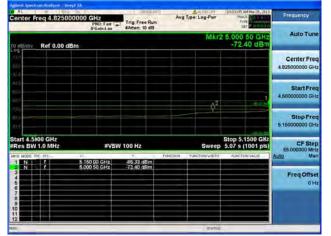


Center Fre

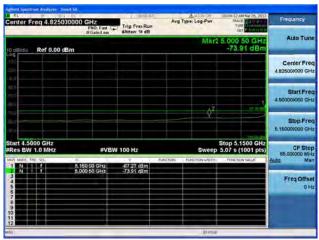
Conducted Bandedge Average, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps



Antenna A Antenna B



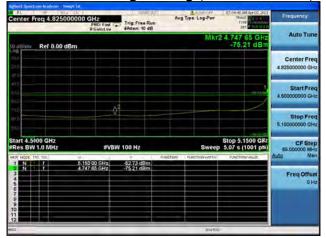
Antenna C Antenna D



DDD GHZ PNO Fast Trig Free Run Anten: 11 dB



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1

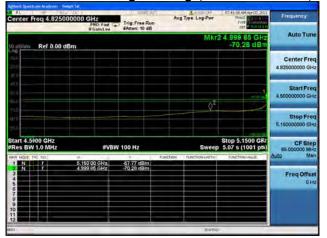


Antenna A

Page No: 205 of 337



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



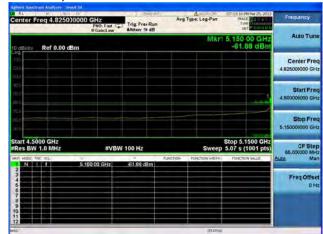


Antenna A Antenna B



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



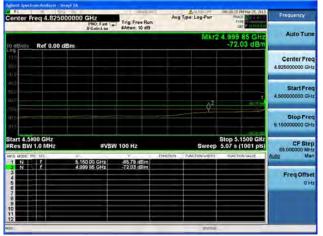
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1





Antenna A

Antenna B



Antenna C



Center Fre

Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2

PNO Fast Attent to diff



Antenna A Antenna B

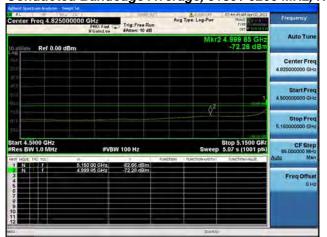


Antenna C

Page No: 209 of 337



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3





PNO: Fast Trig: Free Run

Antenna B



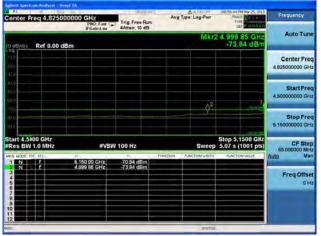
Antenna C



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



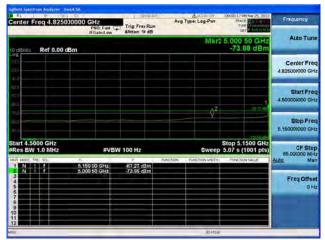
Antenna A



Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2

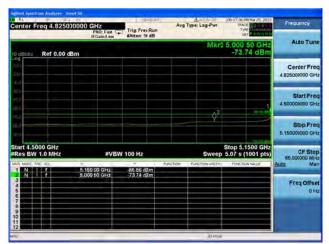




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3

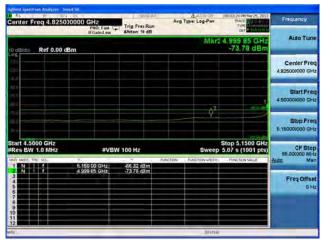




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1

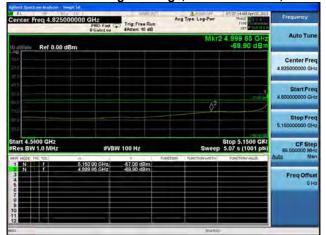


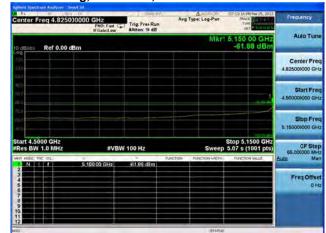


Antenna A Antenna B



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2

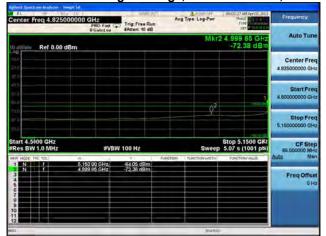


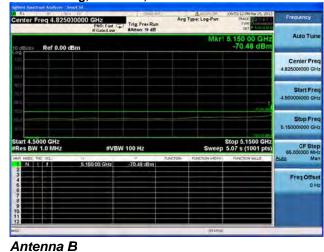


Antenna B



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A

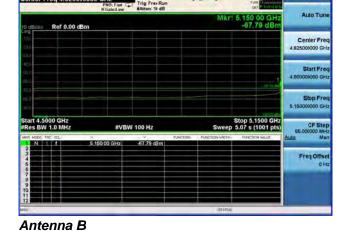
| April | Apri

Antenna C

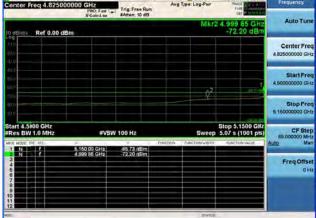


Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2





or Freq 4.82500000 GHz



Antenna C



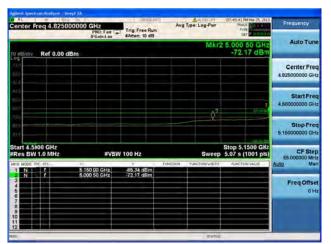
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna B

Antenna A



Antenna C

Page No: 218 of 337



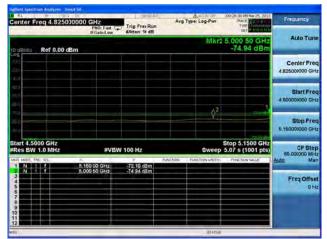
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1







Antenna B

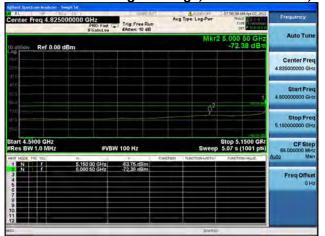


Antenna C

Antenna D



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2

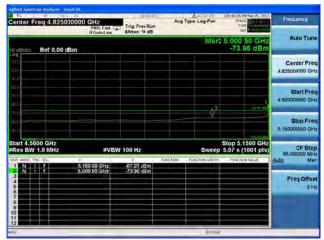




Antenna C



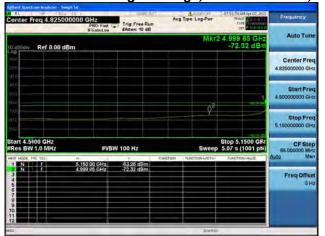
Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3

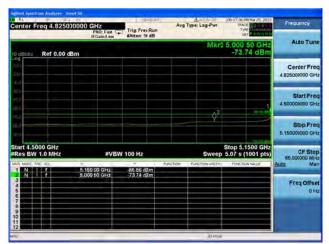




Antenna C



Antenna B

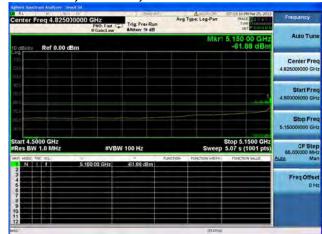


Antenna D



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1

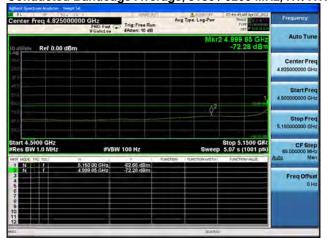


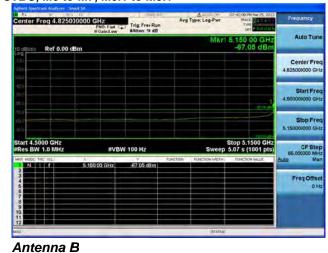


Antenna B



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1





Antenna A

, antonna 2



Antenna C



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



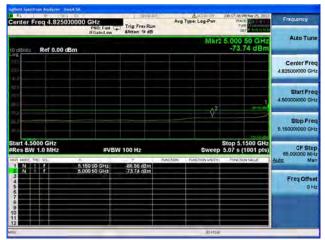
Antenna A



Antenna C



Antenna B



Antenna D









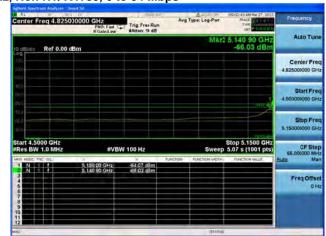
Antenna A Antenna B





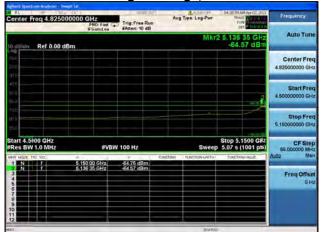


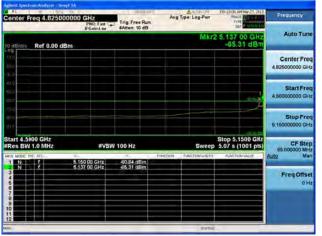
Antenna C



Antenna B



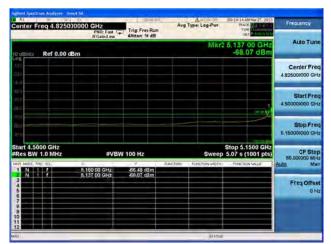




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1

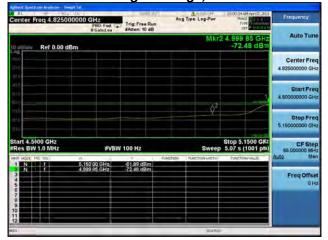


Antenna A

Page No: 229 of 337



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1

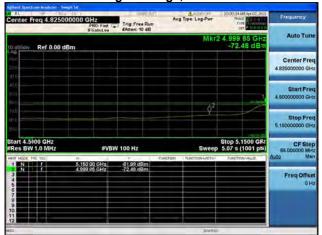




Antenna B



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



Center Fre

Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1



Antenna A Antenna B



Antenna C



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2





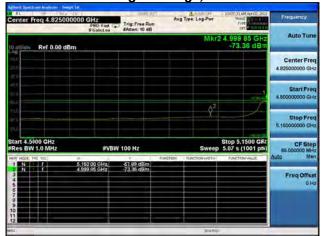
Antenna B

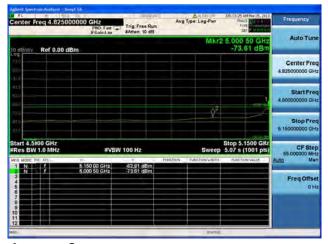


Antenna C



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3





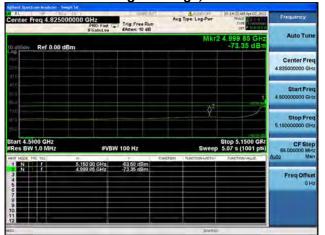
Antenna C



Antenna B

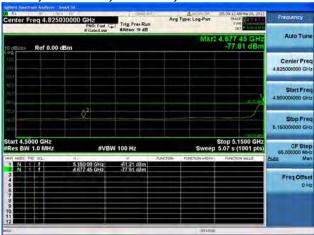


Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1

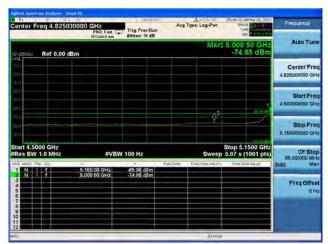




Antenna C



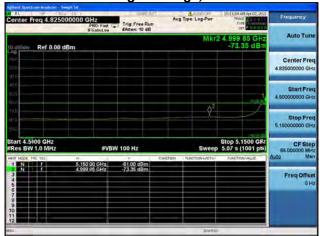
Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2

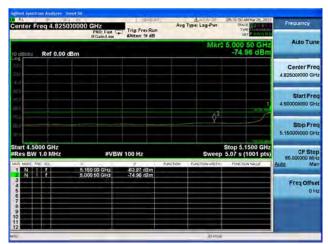




Antenna C



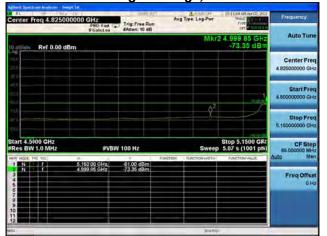
Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3

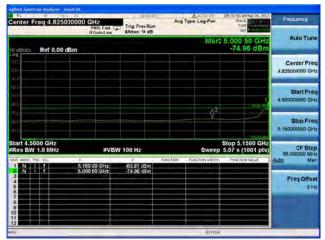




Antenna C



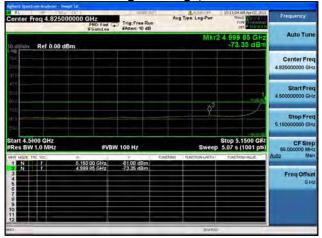
Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A Antenna B



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1

-54 13 dBm -77.77 dBm





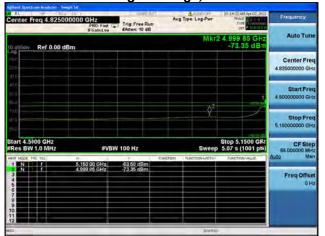


Antenna C



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2

Antenna B



| Problem | Prob

Antenna A

| Context | Fire | Cont

Antenna C

Page No: 241 of 337



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3



Antenna B

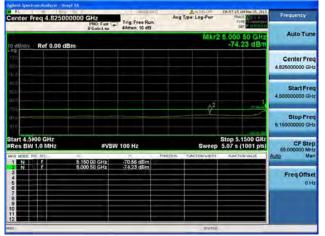


Antenna C

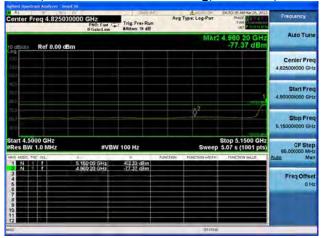


Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1

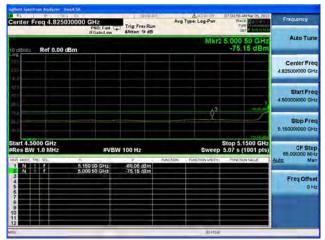




Antenna C



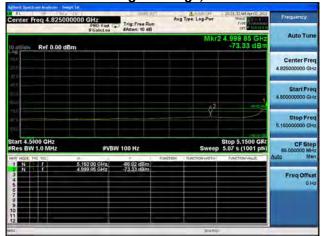
Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2

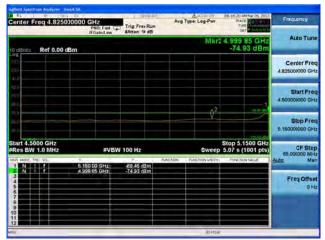




Antenna C



Antenna B



Antenna D

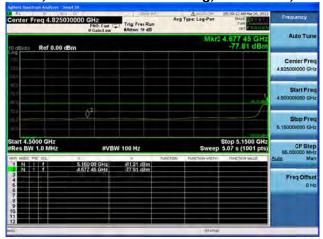


Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3

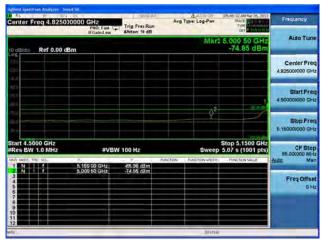




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1





Antenna B



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1



Antenna A

| Auto Tune | Auto

Antenna C

5 150 00 GHz 5 000 50 GHz -62.81 dB:

Antenna B



Center Fre

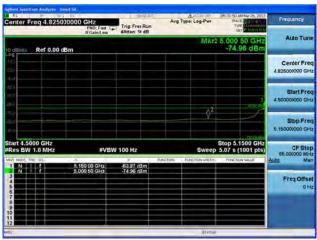
Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1







Antenna C Antenna D













Antenna A Antenna B











Antenna C







Antenna B



Antenna C

Antenna D







Antenna A Antenna B







Antenna B



Antenna C









Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1





Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1





Antenna A Antenna B



Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2





Antenna B



Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1









Antenna C



Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



| Center Freq 4.825000000 GHz | GRO feat | Trigs Free Run | Avg Type: Log Part | GRO feat | Trigs Free Run | Avg Type: Log Part | GRO feat | GR

Antenna A



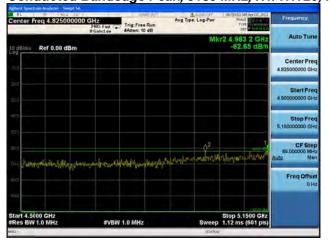
Antenna C

Page No: 260 of 337

Antenna B



Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3



| Start | Star

Antenna A



Antenna C

Page No: 261 of 337

Antenna B



Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1





Antenna C Antenna D



Antenna B





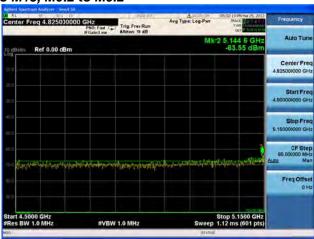
Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Antenna A



Antenna C



Antenna B



Antenna D



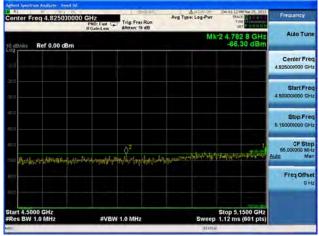
Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3



Center Freq 4.825010000 GHz Find the content of th



Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A Antenna B

Page No: 265 of 337



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna B



Antenna C



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna B



Antenna C



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3



Center Freq 4.825010000 GHz Frequency Freq





Antenna C



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1







Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2







Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3



Center Freq 4.825010000 GHz Fright Start Freq 4.825010000 GHz Fright Start Freq 4.825010000 GHz Fright Freq 4.82501000 GHz Start Freq 4.82501000 GHz Fright Freq 5.1500 GHz Fright Freq 5.1500 GHz Start Freq 6.1500 GHz Freq 6.1500 GHz



Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1





Antenna B



Conducted Bandedge Peak, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1









Antenna C



Center Fre

Conducted Bandedge Peak, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



Start 4.5000 GHz

Antenna A



Antenna B



#VBW 1.0 MHz

Antenna C

Antenna D











Antenna A Antenna B

Page No: 277 of 337





Antenna A



Antenna C

Antenna B





Center Freq 4.825010000 GHz (90) Fat Trig Free Run (



Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



Antenna A

Page No: 280 of 337



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1





Antenna A Antenna B



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1





Antenna B



Antenna C

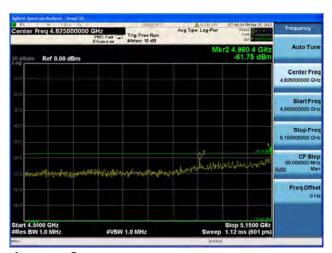


Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



Center Freq 4.82500000 GHz Frontier Freq 4.82500000 GHz Frontier Freq 4.82500000 GHz Frontier Freq 4.82500000 GHz Frontier Freq 4.82500000 GHz Atten 18 68 MKZ 4.588 7 GHz Atten 18 68 Center Freq As2500000 GHz Atten 18 68 Start 4.50000000 GHz Center Freq As2500000 GHz Start Freq As2500000 GHz Freq Offset O Hz Start 4.5000 GHz Freq Offset O Hz Start 4.5000 GHz Freq Offset O Hz

Antenna A



Antenna C

Page No: 284 of 337

Antenna B



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3



Antenna A



#VBW 1.0 MHz

Antenna C

Antenna B



Center Fre

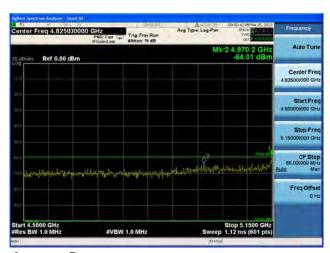
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



Antenna A Antenna B



Antenna C Antenna D



#VBW 1.0 MHz



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



Antenna A Antenna B



Antenna C Antenna D







Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3







Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A Antenna B



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna B



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna B



Antenna C



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2







Antenna C



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3



Antenna B



Antenna C



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



Center Freq 4.82500000 GHz (90) Fat Company (90) Fat Com



Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



Center Freq 4.82500000 GHz P00- Fat Canada w Avg Type: Log-Pur Type: Lo



Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3







Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1





Antenna A Antenna B



Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1





Antenna A



Antenna C

Page No: 298 of 337

Antenna B



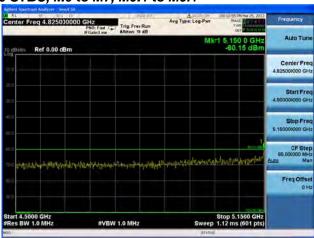
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



Antenna A



Antenna C



Antenna B



Antenna D





Antenna A

Page No: 300 of 337







Antenna B











Antenna C





Center Freq 4.825010000 GHz Fridate w Avg Type: Log-Pur Incod Fridate w Auto Tune Auto Tune Center Freq Auto Tune Start Freq Auto Tune Start Freq Auto Tune Center Freq Auto Tune Start Freq Auto Tune Center Freq Auto Tune Center Freq Auto Tune Center Freq Auto Tune Center Freq Auto Tune Start Freq Auto Tune Start Freq Auto Tune Center Freq Auto Tune Center Freq Auto Tune Start Freq Auto Tune Center Freq Auto Tune Start Freq Auto Tune Start Freq Auto Tune Center Freq Auto Tune Center Freq Auto Tune Center Freq Auto Tune Start Freq Auto Tune Center Freq



Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1



Antenna A

Page No: 304 of 337



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1





Antenna B



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2





Antenna A Antenna B

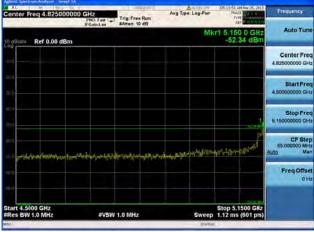


Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1









Antenna C



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2





Antenna A



Antenna C

Page No: 308 of 337



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3





Antenna A



Antenna C

Page No: 309 of 337



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1







Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2



Antenna A



Antenna C





Antenna D



Auto Tu

Center Fre

Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3



600 0 San Standard St

#VBW 1.0 MHz



Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A Antenna B



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna A Antenna B



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A

| Avg Type Leg Part | No. 23 Atta (Avg Type Leg Part | No. 23 Atta

#VBW 1.0 MHz

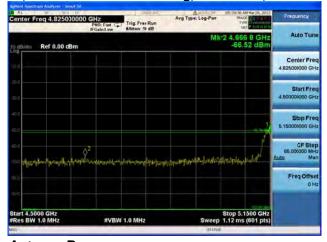
Antenna C

Page No: 315 of 337



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2









Antenna C



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna B



Antenna C



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



Antenna C





Antenna D



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna C





Antenna D



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3







Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1





Antenna A Antenna B



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1









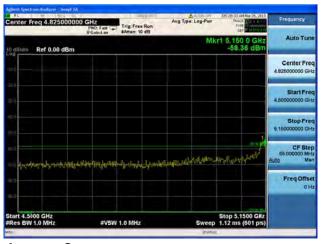
Antenna C



Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1



Center Freq 4.825010000 GHz PRO: Fat Control Freq 4.825010000 GHz Aktor 3 dB MN: 2 4.700 4 GHz Freq A.82501000 GHz Start Freq 4.80001000 GHz Start Freq 4.80001000 GHz Start Freq 4.80001000 GHz Freq Offiset 6 hz Start Freq 6.00000 MHz Freq Offiset 6 hz

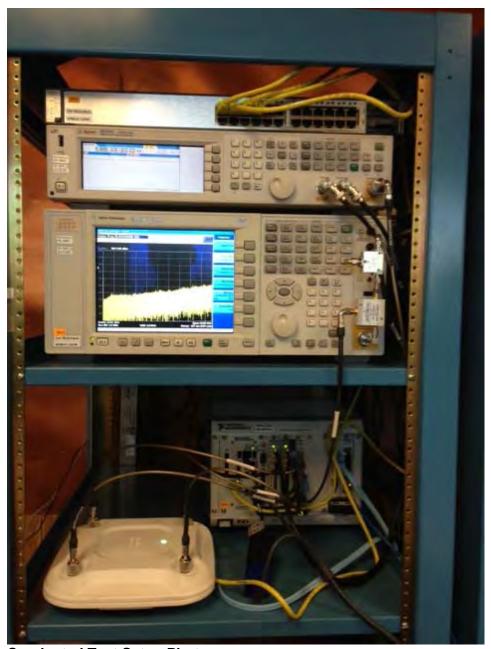


Antenna B



Antenna C

Antenna D



Conducted Test Setup Photo



Appendix B: Emission Test Results

Testing Laboratory: Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134, USA

Radiated Spurious Emissions

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 1GHz – 18 GHz
Reference Level: 80 dBuV
Attenuation: 10 dB
Sweep Time: Coupled
Resolution Bandwidth: 1MHz

Video Bandwidth: 1 MHz for peak, 10 Hz for average

Detector: Peak

Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

Save 2 plots: 1) Average Plot (Vertical and Horizontal), Limit= 54dBuV @3m

2) Peak plot (Vertical and Horizontal), Limit = 74dBuV @3m

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands.

This report represents the worst case data for all supported operating modes and antennas. There are no measurable emissions above 18 GHz.

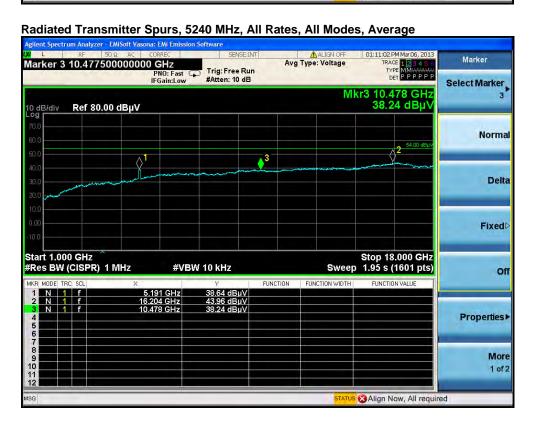
Page No: 325 of 337



Frequency (MHz)	Mode	Data Rate (Mbps)	Spurious Emission Level (dBuV/m)	Limit (dBuV/m)
	Non HT-20, 6 to 54 Mbps	6	<54	54
	Non HT-20 Beam Forming, 6 to 54 Mbps	6	<54	54
5180	HT-20, M0 to M23	m0	<54	54
	HT-20 STBC, M0 to M7	m0	<54	54
	HT-20 Beam Forming, M0 to M23	m0	<54	54
	Non HT-20, 6 to 54 Mbps	6	<54	54
	Non HT-20 Beam Forming, 6 to 54 Mbps	6	<54	54
5240	HT-20, M0 to M23	m0	<54	54
	HT-20 STBC, M0 to M7	m0	<54	54
	HT-20 Beam Forming, M0 to M23	m0	<54	54
	Non HT-40 Duplicate, 6-54 Mbps		<54	54
5180/5200	HT-40, M0 to M23	6	<54	54
5160/5200	HT-40 STBC, M0 to M7	m0	<54	54
	HT-40 Beam Forming, M0 to M23	m0	<54	54
	Non HT-40 Duplicate, 6-54 Mbps	6	<54	54
5220/5240	HT-40, M0 to M23	m0	<54	54
5220/5240	HT-40 STBC, M0 to M7	m0	<54	54
	HT-40 Beam Forming, M0 to M23	m0	<54	54

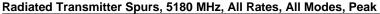






Page No: 327 of 337







Radiated Transmitter Spurs, 5240 MHz, All Rates, All Modes, Peak



Page No: 328 of 337

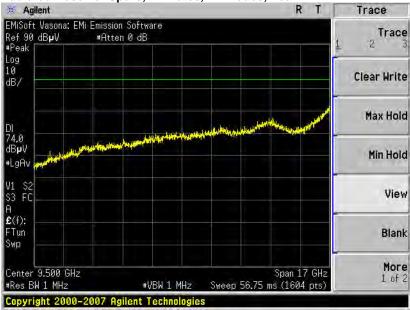


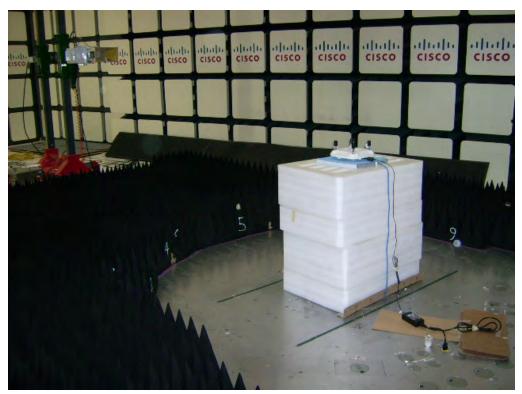
Receiver Radiated Spurious Emissions





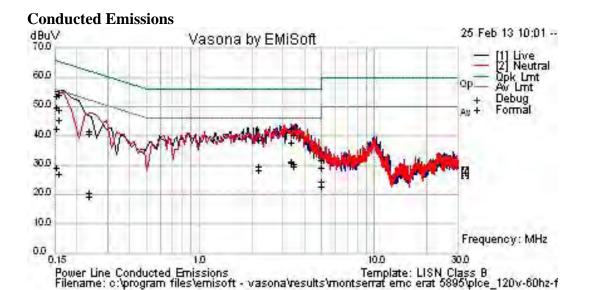
Radiated Receiver Spurs, All Rates, All Modes, Peak





Radiated Test Setup Photo





Test Results Table

Frequency MHz					Measureme			Margin dB	Pass /Fail Comments	
0.15736					nt Type Av			-	Pass	
0.15736				54.2					Pass	
0.15288	32	21.4	0.1	53.5	Qp	N	65.8	-12.4	Pass	
3.424	22.7	20	0	42.8	Ор	N	56	-13.2	Pass	
0.15288	21	21.4	0.1	42.4	Av	L	55.8	-13.4	Pass	
3.351	22.5	20	0.1	42.6	Ор	N	56	-13.4	Pass	
3.351	11.1	20	0.1	31.2	Av	N	46	-14.8	Pass	
3.351	10.9	20	0.1	30.9	Av	L	46	-15.1	Pass	
3.424	20.3	20	0	40.3	Ор	L	56	-15.7	Pass	
3.424	10.2	20	0	30.3	Av	N	46	-15.7	Pass	
0.15288	28.1	21.4	0.1	49.6	Qp	L	65.8	-16.3	Pass	
3.424	9.4	20	0	29.5	Av	L	46	-16.5	Pass	
2.158	9.4	20	0	29.5	Av	N	46	-16.5	Pass	
0.15736	27.5	21.3	0.1	48.9	Qp	L	65.6	-16.7	Pass	
2.158	18.6	20	0	38.7	Ор	N	56	-17.3	Pass	
2.158	18.6	20	0	38.6	Qp	L	56	-17.4	Pass	
2.158	8.5	20	0	28.5	Av	L	46	-17.5	Pass	
3.351	17.6	20	0.1	37.6	Ор	L	56	-18.4	Pass	
0.23346	20.6	20.9	0	41.5	Ор	L	62.3	-20.8	Pass	
0.23346	19.8	20.9	0	40.7	Ор	N	62.3	-21.6	Pass	
4.916	4.3	20	0	24.4	Av	N	46	-21.6	Pass	
4.916	2.5	20	0	22.6	Av	L	46	-23.4	Pass	
4.916	11.8	20	0	31.9	Ор	N	56	-24.1	Pass	

Page No: 331 of 337

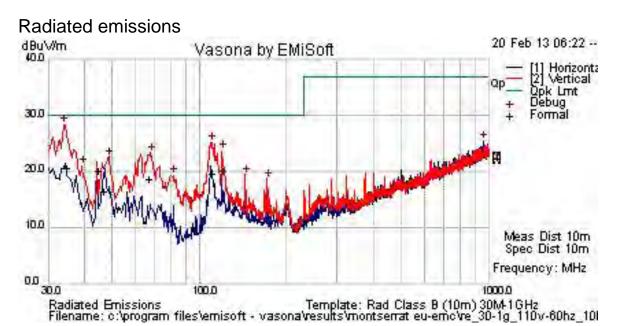


					Measureme nt Type	-		Margin dB	Pass /Fail	Comments
0.15288	7.8	21.4	0.1	29.2	Av	N	55.8	-26.6	Pass	
4.916	9	20	0	29.1	Ор	L	56	-26.9	Pass	
0.15736	5.7	21.3	0.1	27.1	Av	L	55.6	-28.5	Pass	
0.23346	-0.1	20.9	0	20.8	Av	N	52.3	-31.6	Pass	
0.23346	-1.5	20.9	0	19.4	Av	L	52.3	-32.9	Pass	



Title: Power Line Conducted Emissions Test Setup





Test Results Table

	u u	0.0										
Frequency	Raw	Cable	AF dB	Level	Measureme	Pol	Hgt	Azt	Limit	Margin	Pass /Fail	Comments
MHz	dBuV	Loss		dBuV/m	nt Type		cm	Deg	dBuV/m	dB		
34.65	30.1	0.6	-10.1	20.6	Qp	V	124	218	30	-9.4	Pass	
44.239	36.6	0.7	-17.2	20.2	Ор	V	198	221	30	-9.8	Pass	
120.013	32.5	1.2	-13.6	20.2	Ор	V	135	87	30	-9.8	Pass	
110.373	33.2	1.2	-14.7	19.7	Ор	V	131	175	30	-10.3	Pass	
66.612	37.4	1	-19.7	18.6	Qp	V	102	271	30	-11.4	Pass	
46.154	33.9	0.7	-18.3	16.3	Ор	V	254	195	30	-13.7	Pass	





Title: Radiated Emissions 10m Test Distance



Maximum Permissible Exposure (MPE) Calculations

15.407: U-NII devices are subject to the radio frequency radiation exposure requirements specified in Sec. 1.1307(b), Sec. 2.1091 and Sec. 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a ``general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

Given

 $E=\sqrt{(30*P*G)}/d$ and $S=E^2/3770$

where

E=Field Strength in Volts/meter

P=Power in Watts

G=Numeric Antenna Gain

d=Distance in meters

S=Power Density in mW/cm^2

Combine equations and rearrange the terms to express the distance as a function of the remaining variables:

 $d=\sqrt{((30*P*G)/(3770*S))}$

Changing to units of power in mW and distance in cm, using:

P(mW)=P(W)/1000

d(cm)=100*d(m)

vields

 $d=100*\sqrt{((30*(P/1000)*G)/(3770*S))}$

 $d=0.282*\sqrt{(P*G/S)}$

where

d=Distance in cm

P=Power in mW

G=Numerica Antenna Gain

S=Power Density in mW/cm^2

Substituting the logarithmic form of power and gain using:

 $P(mW)=10^{(P(dBm)/10)}$

 $G(numeric)=10^{(G(dBi)/10)}$

yields

 $d=0.282*10^{(P+G)/20}/\sqrt{S}$

Equation (1)

and

 $s=((0.282*10^{(P+G)/20)})/d)^2$

Equation (2)

where

d=MPE distance in cm

P=Power in dBm

G=Antenna Gain in dBi

S=Power Density in mW/cm^2

Page No: 335 of 337



Equation (1) and the measured peak power are used to calculate the MPE distance. Note that for mobile or fixed location transmitters such as an access point, the minimum separation distance is 20 cm even if the calculations indicate that the MPE distance may be less.

S=1mW/cm² maximum. Using the peak power levels recorded in the test report along with Equation 1 above, the MPE distances are calculated as follows.

Frequency (MHz)	Power Density (mW/cm^2)	Peak Transmit Power (dBm)	Antenna Gain (dBi)	MPE Distance (cm)	Limit (cm)	Margin (cm)
5180	1	17	6	3.98	20	16.02
5240	1	17	6	3.98	20	16.02

MPE Calculations

To maintain compliance, installations will assure a separation distance of at least 20cm.

Using Equation 2, the MPE levels (s) at 20 cm are calculated as follows:

		Peak				
	MPE	Transmit	Antenna	Power		
Frequency	Distance	Power	Gain	Density	Limit	Margin
(MHz)	(cm)	(dBm)	(dBi)	(mW/cm^2)	(mW/cm^2)	(mW/cm^2)
5180	20	17	6	0.04	1	0.96
5240	20	17	6	0.04	1	0.96

Page No: 336 of 337



Appendix C: Test Equipment/Software Used to perform the test

Equip #	Manufacturer Model		Description	Last Cal	Next Due
CIS004882	EMC Test Systems	3115	Double Ridged Guide Horn Antenna	04-Jun-12	04-Jun-13
CIS004927	Miteq	NSP1000-S1	Broadband Preamplifier	01-Feb-13	01-Feb-14
CIS007704	Fischer	FCC-LISN-50/250-50-2-01	LISN	11-May-12	11-May-13
CIS021117	Micro-Coax	UFB311A-0-2484-520520	RF Coaxial Cable, to 18GHz, 248.4 in	24-Aug-12	24-Aug-13
CIS030564	Micro-Coax	UFB311A-1-0950-504504	RF Coaxial Cable, to 18GHz, 95 in	24-Aug-12	24-Aug-13
CIS030652	Sunol Sciences	JB1	Combination Antenna, 30MHz-2GHz	04-Sep-12	04-Sep-13
CIS044940	Rohde & Schwarz	ESU40	EMI Test Receiver	08-May-12	08-May-13
CIS018313	НР	8447D	RF Preamplifier	08-Jan-13	08-Jan-14
CIS043116	Huber + Suhner	Sucoflex 104PE	N & SMA RF cable	14-Dec-12	14-Dec-13
CIS049381	Agilent	N9030A	Spectrum Analyzer	28-Aug-12	28-Aug-13

Page No: 337 of 337