

Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7

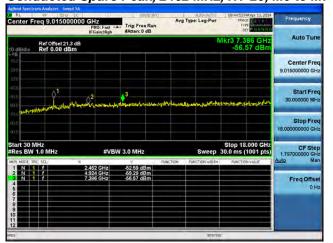


Antenna A

Page No: 301 of 387



Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7



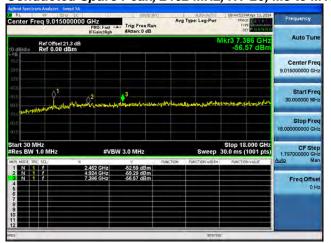




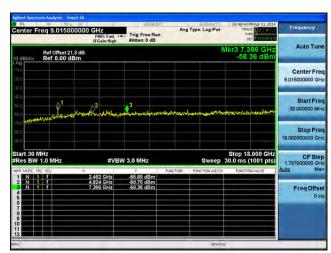
Antenna B



Conducted Spurs Peak, 2462 MHz, HT-20, M8 to M15







Antenna B



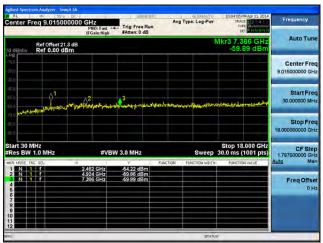
Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7



Antenna A



Antenna C

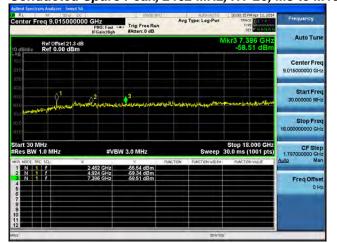


Antenna B

Page No: 304 of 387



Conducted Spurs Peak, 2462 MHz, HT-20, M8 to M15



Antenna A



Antenna C

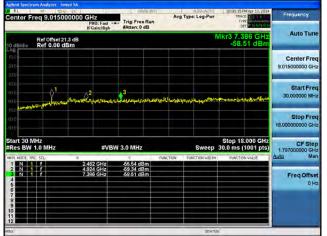


Antenna B

Page No: 305 of 387



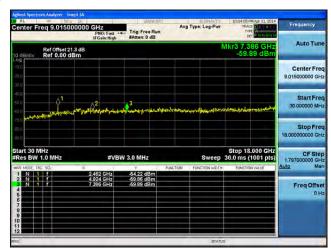
Conducted Spurs Peak, 2462 MHz, HT-20, M16 to M23



Antenna A



Antenna C



Antenna B

Page No: 306 of 387

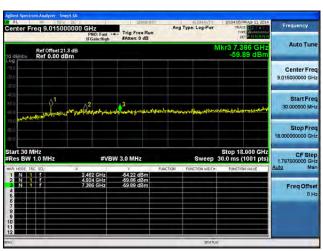


Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7





Antenna C



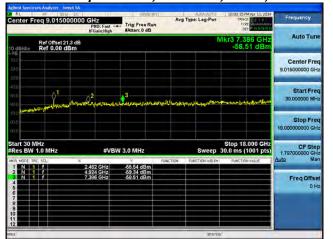
Antenna B



Antenna D

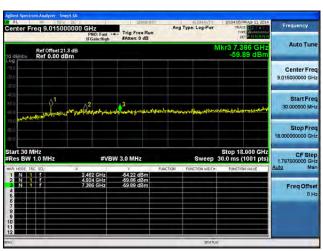


Conducted Spurs Peak, 2462 MHz, HT-20, M8 to M15





Antenna C



Antenna B



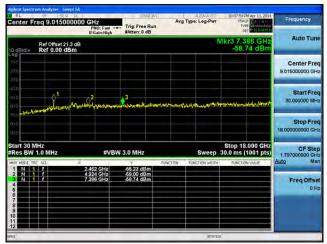
Antenna D



Conducted Spurs Peak, 2462 MHz, HT-20, M16 to M23



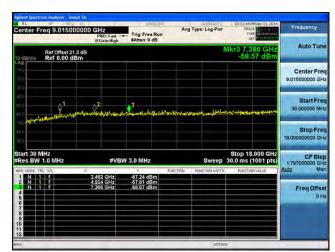
Antenna A



Antenna C



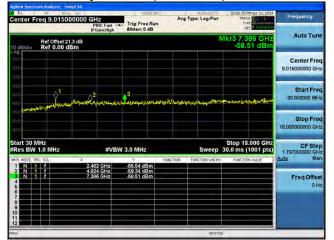
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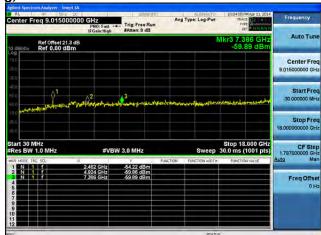


Antenna D



Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M0 to M7

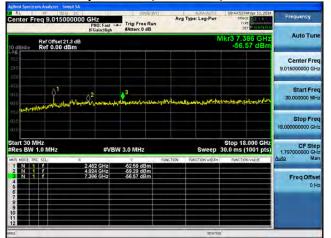


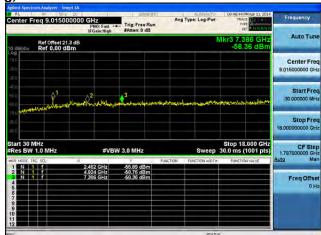


Antenna A Antenna B



Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M8 to M15



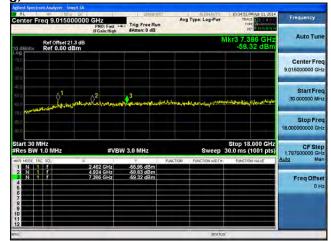


Antenna A Antenna B



Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M0 to M7





Antenna A

Antenna B

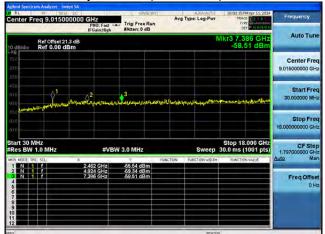


Antenna C

Page No: 312 of 387

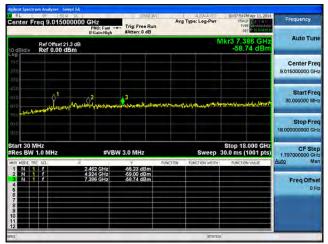


Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M8 to M15





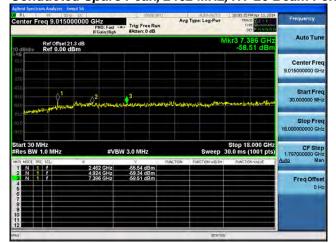
Antenna B



Antenna C

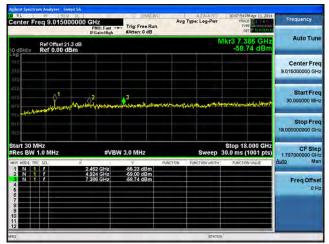


Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M16 to M23





Antenna B



Antenna C

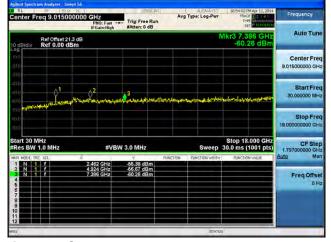


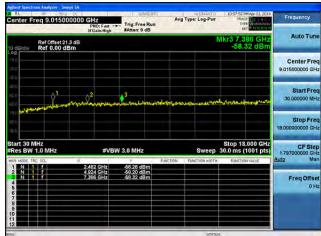
Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M0 to M7











Antenna C

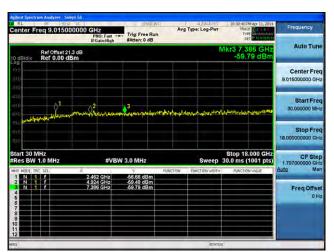
Antenna D



Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M8 to M15







Antenna B

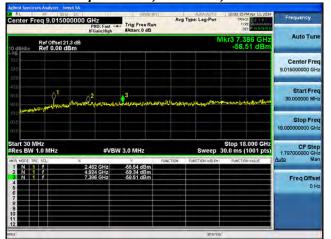


Antenna C

Antenna D



Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M16 to M23





Antenna B

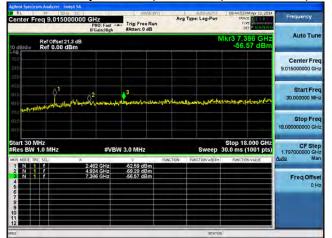


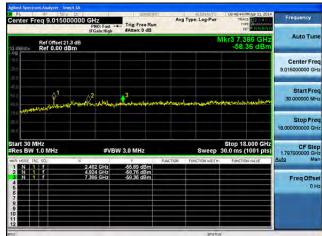
Antenna C

Antenna D



Conducted Spurs Peak, 2462 MHz, HT-20 STBC, M0 to M7





Antenna A Antenna B

Page No: 318 of 387

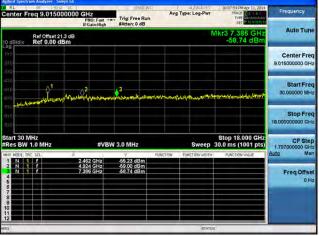


Conducted Spurs Peak, 2462 MHz, HT-20 STBC, M0 to M7





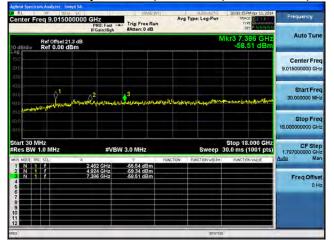
Antenna B

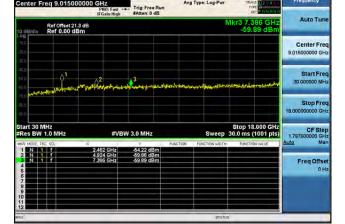


Antenna C



Conducted Spurs Peak, 2462 MHz, HT-20 STBC, M0 to M7







Antenna B



Antenna C

Antenna D



Conducted Bandedge

15.205: 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)).

Use the procedures in 558074 D01 DTS Meas Guidance v03r02.

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

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

Video Bandwidth: 100 Hz for average

Detector: Peak

Save 2 plots: Average Plot (Vertical and Horizontal), Limit= -41.25 dBm eirp (54dBuV/m @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 approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically 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: 321 of 387



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)
	CCK, 1 to 11 Mbps	1	4	-54.0				-50.0	-41.25	8.8
	CCK, 1 to 11 Mbps	2	4	-54.0	-57.6			-48.4	-41.25	7.2
	CCK, 1 to 11 Mbps	3	4	-54.0	-57.6	-58.8		-47.5	-41.25	6.3
	CCK, 1 to 11 Mbps	4	4	-54.0	-57.6	-58.8	-58.0	-46.6	-41.25	5.4
	Non HT-20, 6 to 54 Mbps	1	4	-45.6				-41.6	-41.25	0.4
	Non HT-20, 6 to 54 Mbps	2	4	-48.4	-50.9			-42.5	-41.25	1.2
	Non HT-20, 6 to 54 Mbps	3	4	-48.4	-50.9	-51.7		-41.3	-41.25	0.1
	Non HT-20, 6 to 54 Mbps	4	4	-50.0	-54.0	-54.7	-54.2	-42.7	-41.25	1.5
	Non HT-20 Beam Forming, 6 to 54 Mbps	2	7	-50.0	-54.0			-41.5	-41.25	0.3
	Non HT-20 Beam Forming, 6 to 54 Mbps	3	9	-52.9	-57.5	-59.1		-42.1	-41.25	0.8
	Non HT-20 Beam Forming, 6 to 54 Mbps	4	10	-54.6	-58.7	-60.8	-59.0	-41.6	-41.25	0.4
	HT-20, M0 to M7	1	4	-46.1				-42.1	-41.25	0.9
	HT-20, M0 to M7	2	4	-47.5	-50.7			-41.8	-41.25	0.6
	HT-20, M8 to M15	2	4	-47.5	-50.7			-41.8	-41.25	0.6
01	HT-20, M0 to M7	3	4	-49.1	-53.1	-53.6		-42.7	-41.25	1.4
2412	HT-20, M8 to M15	3	4	-49.1	-53.1	-53.6		-42.7	-41.25	1.4
7	HT-20, M16 to M23	3	4	-49.1	-53.1	-53.6		-42.7	-41.25	1.4
	HT-20, M0 to M7	4	4	-49.1	-53.1	-53.6	-53.8	-41.9	-41.25	0.6
	HT-20, M8 to M15	4	4	-49.1	-53.1	-53.6	-53.8	-41.9	-41.25	0.6
	HT-20, M16 to M23	4	4	-49.1	-53.1	-53.6	-53.8	-41.9	-41.25	0.6
	HT-20 Beam Forming, M0 to M7	2	7	-50.4	-54.9			-42.1	-41.25	0.8
	HT-20 Beam Forming, M8 to M15	2	4	-47.5	-50.7			-41.8	-41.25	0.6
	HT-20 Beam Forming, M0 to M7	3	9	-52.5	-56.6	-58.1		-41.5	-41.25	0.2
	HT-20 Beam Forming, M8 to M15	3	6	-50.4	-54.9	-55.9		-42.5	-41.25	1.2
	HT-20 Beam Forming, M16 to M23	3	4	-49.1	-53.1	-53.6		-42.7	-41.25	1.4
	HT-20 Beam Forming, M0 to M7	4	10	-55.2	-59.2	-61.7	-60.5	-42.4	-41.25	1.1
	HT-20 Beam Forming, M8 to M15	4	7	-52.5	-56.6	-58.1	-57.7	-42.6	-41.25	1.3
	HT-20 Beam Forming, M16 to M23	4	5	-50.4	-54.9	-55.9	-56.1	-42.4	-41.25	1.1
	HT-20 STBC, M0 to M7	2	4	-47.5	-50.7			-41.8	-41.25	0.6
	HT-20 STBC, M0 to M7	3	4	-49.1	-53.1	-53.6		-42.7	-41.25	1.4
	HT-20 STBC, M0 to M7	4	4	-49.1	-53.1	-53.6	-53.8	-41.9	-41.25	0.6

Page No: 322 of 387



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	CCK, 1 to 11 Mbps	1	4	-56.2				-52.2	-41.25	11.0
	CCK, 1 to 11 Mbps	2	4	-56.2	-55.8			-49.0	-41.25	7.7
	CCK, 1 to 11 Mbps	3	4	-56.2	-55.8	-56.1		-47.3	-41.25	6.0
	CCK, 1 to 11 Mbps	4	4	-56.2	-55.8	-56.1	-57.2	-46.3	-41.25	5.0
	Non HT-20, 6 to 54 Mbps	1	4	-46.4				-42.4	-41.25	1.2
	Non HT-20, 6 to 54 Mbps	2	4	-49.8	-51.0			-43.3	-41.25	2.1
	Non HT-20, 6 to 54 Mbps	3	4	-49.8	-51.0	-50.8		-41.7	-41.25	0.5
	Non HT-20, 6 to 54 Mbps	4	4	-50.7	-52.8	-52.5	-53.3	-42.2	-41.25	0.9
	Non HT-20 Beam Forming, 6 to 54 Mbps	2	7	-50.7	-52.8			-41.6	-41.25	0.4
	Non HT-20 Beam Forming, 6 to 54 Mbps	3	9	-55.0	-56.2	-56.0		-42.1	-41.25	0.9
	Non HT-20 Beam Forming, 6 to 54 Mbps	4	10	-56.8	-57.9	-57.8	-58.7	-41.7	-41.25	0.5
	HT-20, M0 to M7	1	4	-45.8				-41.8	-41.25	0.5
	HT-20, M0 to M7	2	4	-49.2	-50.4			-42.7	-41.25	1.5
2462	HT-20, M8 to M15	2	4	-49.2	-50.4			-42.7	-41.25	1.5
	HT-20, M0 to M7	3	4	-51.8	-52.1	-53.0		-43.5	-41.25	2.2
	HT-20, M8 to M15	3	4	-51.8	-52.1	-53.0		-43.5	-41.25	2.2
	HT-20, M16 to M23	3	4	-51.8	-52.1	-53.0		-43.5	-41.25	2.2
	HT-20, M0 to M7	4	4	-51.8	-52.1	-53.0	-53.8	-42.6	-41.25	1.3
	HT-20, M8 to M15	4	4	-51.8	-52.1	-53.0	-53.8	-42.6	-41.25	1.3
	HT-20, M16 to M23	4	4	-51.8	-52.1	-53.0	-53.8	-42.6	-41.25	1.3
	HT-20 Beam Forming, M0 to M7	2	7	-51.8	-52.1			-41.9	-41.25	0.7
	HT-20 Beam Forming, M8 to M15	2	4	-49.2	-50.4			-42.7	-41.25	1.5
	HT-20 Beam Forming, M0 to M7	3	9	-54.5	-55.7	-55.7		-41.7	-41.25	0.4
	HT-20 Beam Forming, M8 to M15	3	6	-51.8	-52.1	-53.0		-41.7	-41.25	0.4
	HT-20 Beam Forming, M16 to M23	3	4	-51.8	-52.1	-53.0		-43.5	-41.25	2.2
	HT-20 Beam Forming, M0 to M7	4	10	-57.3	-58.2	-58.4	-58.2	-42.0	-41.25	0.7
	HT-20 Beam Forming, M8 to M15	4	7	-54.5	-55.7	-55.7	-57.2	-42.7	-41.25	1.4
	HT-20 Beam Forming, M16 to M23	4	5	-51.8	-52.1	-53.0	-53.8	-41.4	-41.25	0.1
	HT-20 STBC, M0 to M7	2	4	-49.2	-50.4			-42.7	-41.25	1.5
	HT-20 STBC, M0 to M7	3	4	-51.8	-52.1	-53.0		-43.5	-41.25	2.2
	HT-20 STBC, M0 to M7	4	4	-51.8	-52.1	-53.0	-53.8	-42.6	-41.25	1.3

Page No: 323 of 387





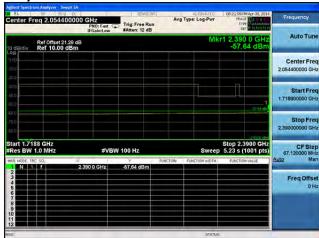
Antenna A

Page No: 324 of 387





Antenna A



Antenna B

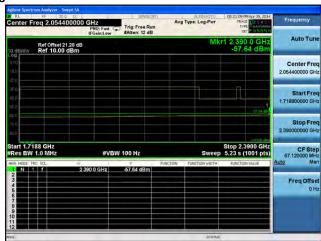
Page No: 325 of 387







Antenna C



Antenna B

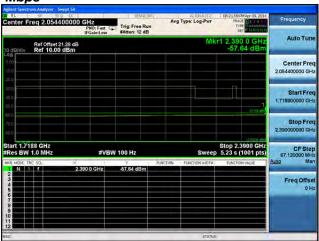




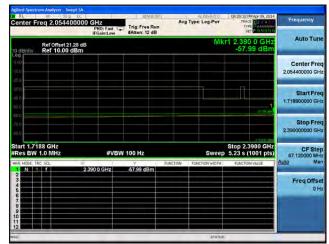
Antenna A



Antenna C



Antenna B



Antenna D

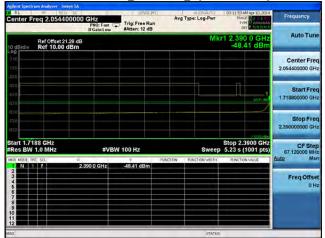


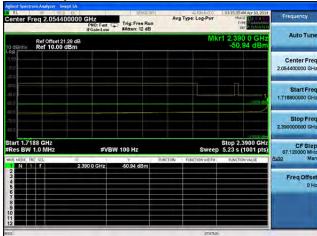


Antenna A

Page No: 328 of 387



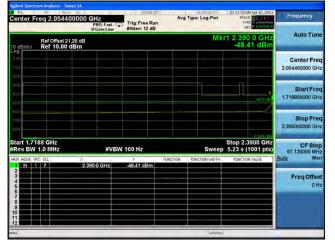


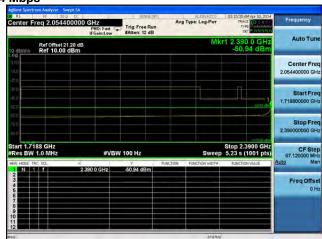


Antenna A Antenna B

Page No: 329 of 387







Antenna B



Antenna C





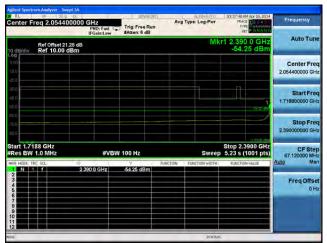
Antenna A



Antenna C

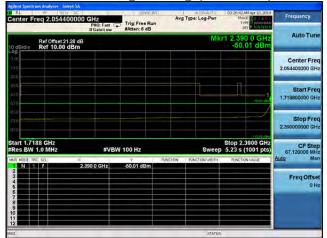


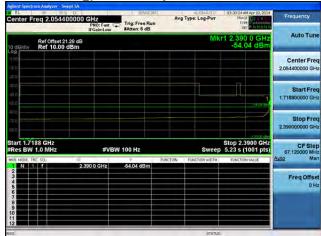
Antenna B



Antenna D







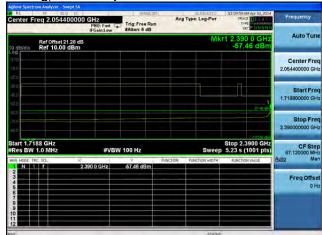
Antenna A

Page No: 332 of 387

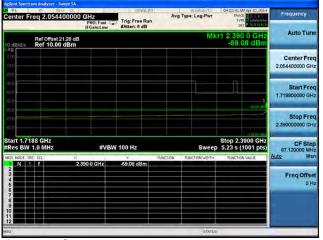
Antenna B







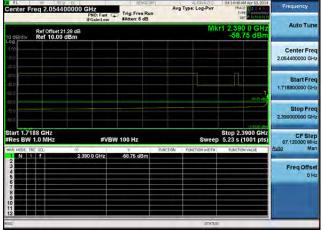
Antenna B



Antenna C

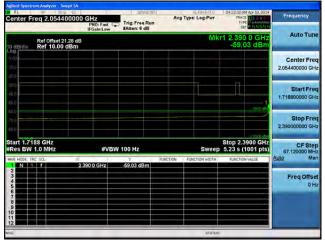








Antenna B



Antenna C

Antenna D



Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7



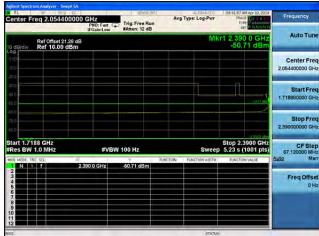
Antenna A

Page No: 335 of 387



Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7





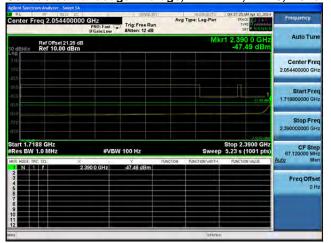
Antenna A

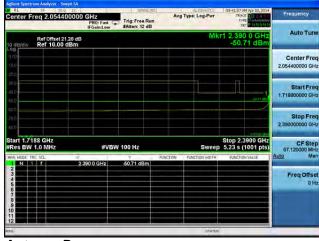
Antenna B

Page No: 336 of 387



Conducted Bandedge Average, 2412 MHz, HT-20, M8 to M15





Antenna A

Antenna B

Page No: 337 of 387



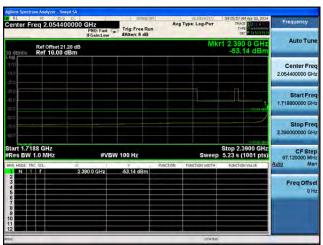
Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7



Antenna A



Antenna C



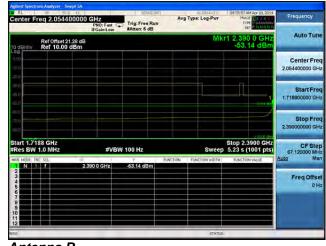
Antenna B

Page No: 338 of 387



Conducted Bandedge Average, 2412 MHz, HT-20, M8 to M15





Antenna B



Antenna C



Conducted Bandedge Average, 2412 MHz, HT-20, M16 to M23



| April | Specific | April | A

Antenna A

| Center Freq 2.054400000 GHz | Frequency | Frequency

Antenna C

Page No: 340 of 387

Antenna B

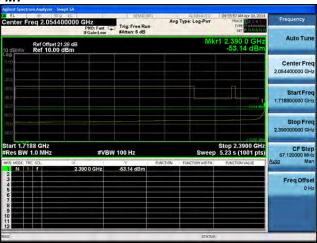


Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7

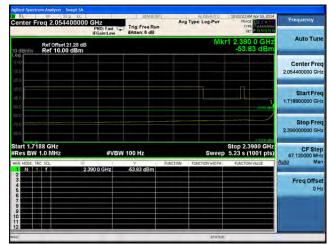




Antenna C



Antenna B



Antenna D

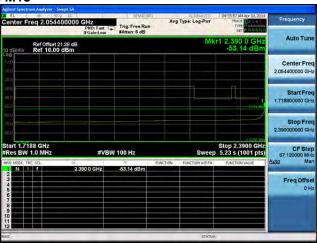


Conducted Bandedge Average, 2412 MHz, HT-20, M8 to M15

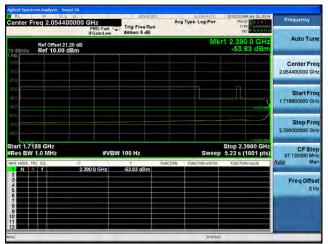




Antenna C



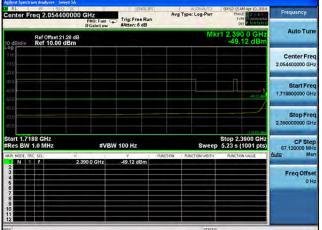
Antenna B



Antenna D

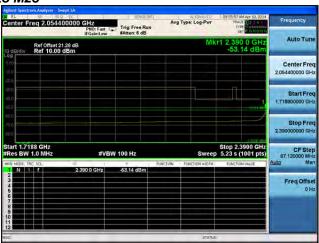


Conducted Bandedge Average, 2412 MHz, HT-20, M16 to M23

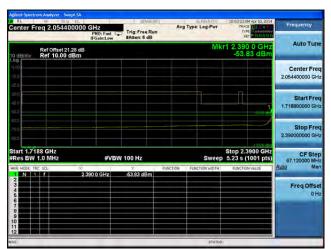




Antenna C



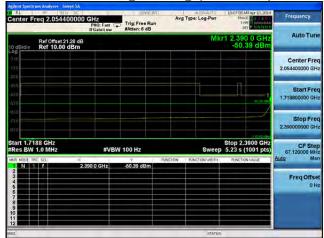
Antenna B

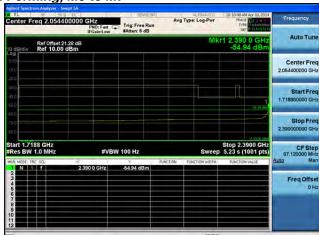


Antenna D



Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M0 to M7





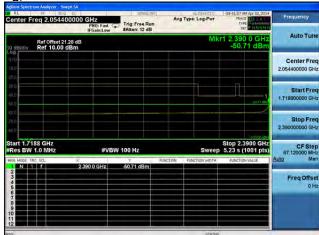
Antenna A Antenna B

Page No: 344 of 387



Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M8 to M15





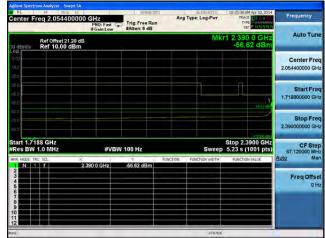
Antenna A Antenna B

Page No: 345 of 387



Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M0 to M7





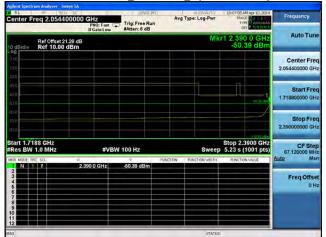
Antenna B



Antenna C



Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M8 to M15



Antenna A

| Start | 17183 GHz | Star

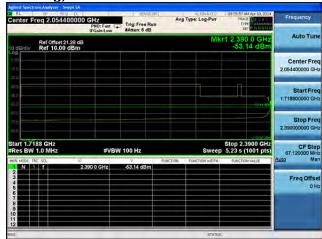
Antenna C

Page No: 347 of 387



Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M16 to M23





Antenna A

Antenna C

Page No: 348 of 387

Antenna B

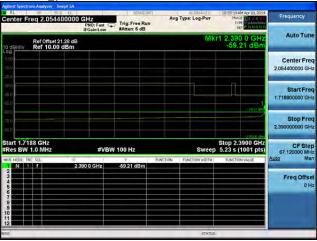


Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M0 to M7

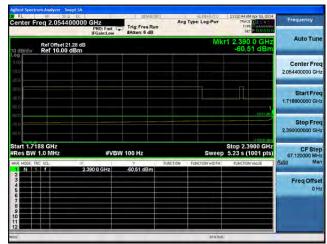




Antenna C



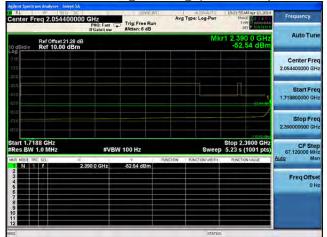
Antenna B

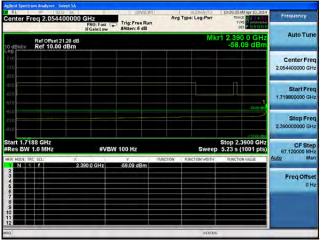


Antenna D

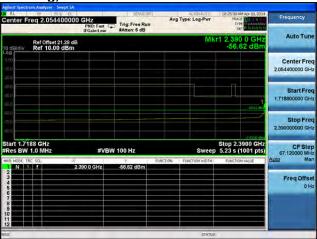


Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M8 to M15

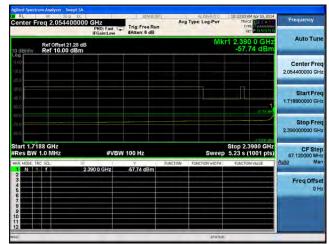




Antenna C



Antenna B



Antenna D

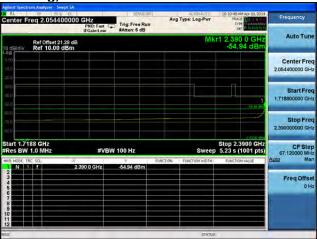


Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M16 to M23

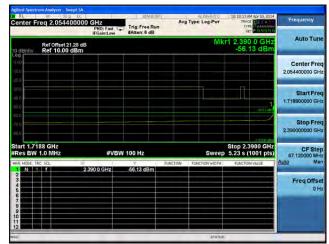




Antenna C



Antenna B

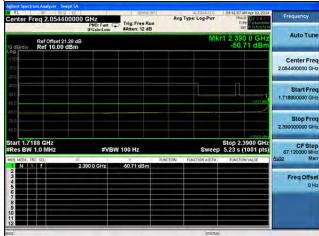


Antenna D



Conducted Bandedge Average, 2412 MHz, HT-20 STBC, M0 to M7





Antenna A Antenna B

Page No: 352 of 387



Conducted Bandedge Average, 2412 MHz, HT-20 STBC, M0 to M7



ter Freq 2.054400000 GHz Fright Freq 2.0544600000 Fright Freq SAtten: 6 dB Ref Offset 21.28 dB Ref 10.00 dBm Center Fre 2.054400000 GH

Antenna A

Antenna B



Antenna C

Page No: 353 of 387

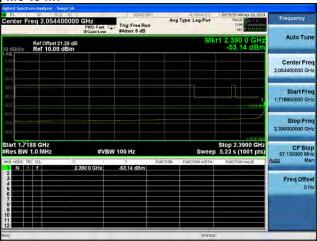


Conducted Bandedge Average, 2412 MHz, HT-20 STBC, M0 to M7

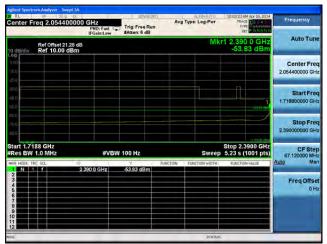




Antenna C



Antenna B



Antenna D





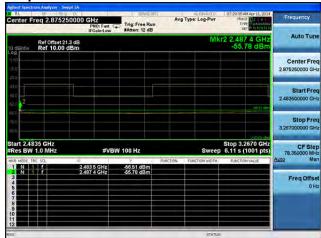
Antenna A

Page No: 355 of 387





Antenna A



Antenna B

Page No: 356 of 387





ter Freq 2.875250000 GHz
PN0:Fast Carlot Inv

Ref Offset 21.3 dB Ref 10.00 dBm

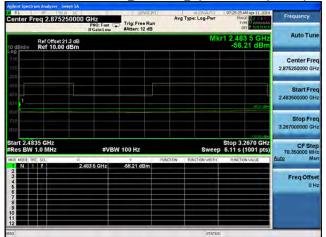
Antenna A

| Applied | Section | Applied | Appl

Antenna C

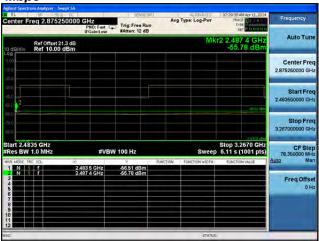
Antenna B



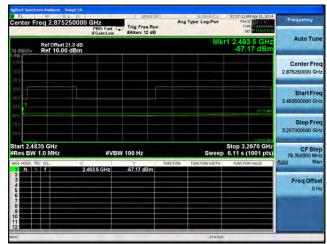




Antenna C



Antenna B



Antenna D

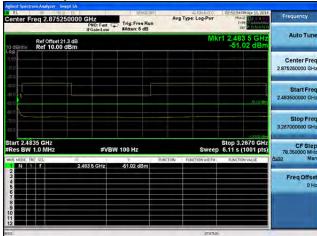


Antenna A

Page No: 359 of 387

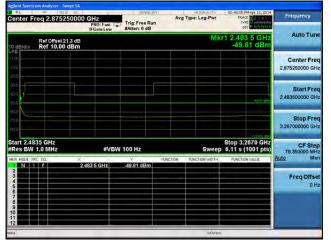


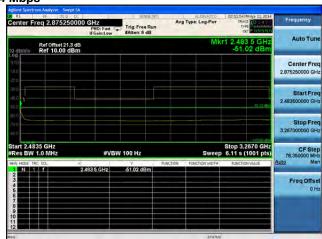




Antenna A Antenna B





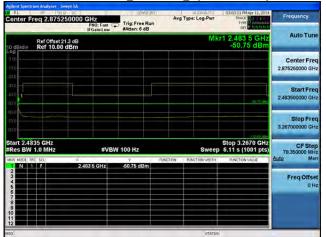


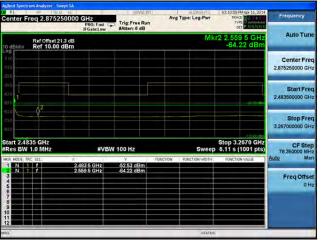
Antenna B



Antenna C



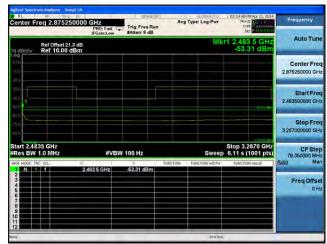




Antenna C



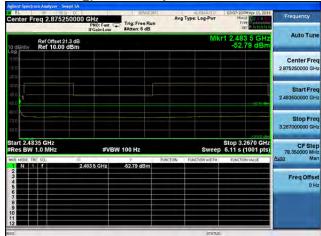
Antenna B



Antenna D





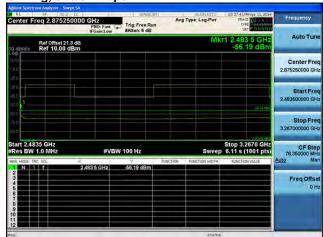


Antenna A Antenna B

Page No: 363 of 387







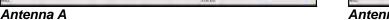
Antenna B



Antenna C





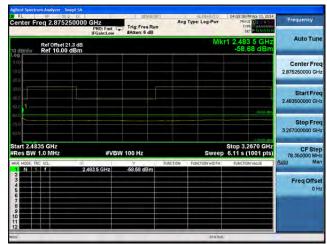




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7



Antenna A

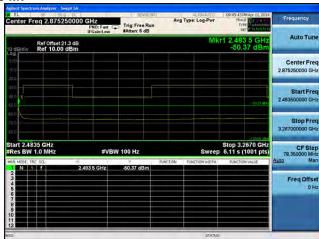
Page No: 366 of 387



Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7



Antenna A

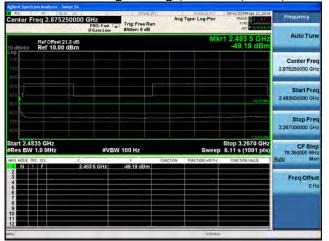


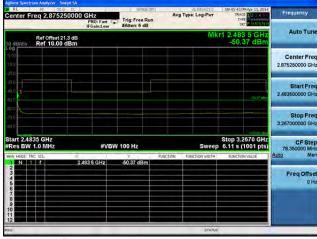
Antenna B

Page No: 367 of 387









Antenna A Antenna B

Page No: 368 of 387

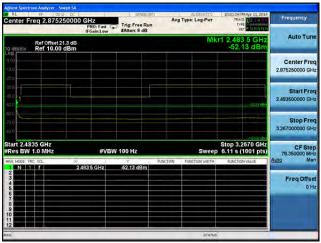


Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7





Antenna C



Antenna B



Conducted Bandedge Average, 2462 MHz, HT-20, M8 to M15



| Size |

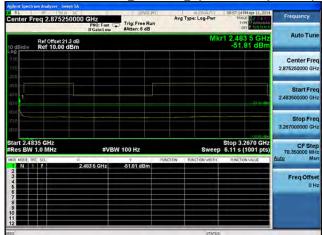
Antenna B



Antenna C



Conducted Bandedge Average, 2462 MHz, HT-20, M16 to M23



| Applied Spectrum Analyzer | Sweep 6.0 | Applied Spectrum Analyzer | Sweep 6.1 | Stratt Preg 2.875250000 GHz | Frequency | Fr

Antenna A

| Start 2:3835 GHz | Start 2:383

Antenna C

Page No: 371 of 387

Antenna B



Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7

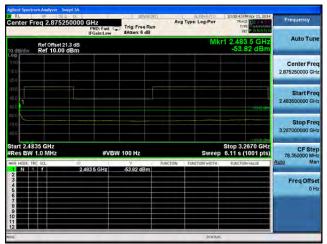




Antenna C



Antenna B



Antenna D



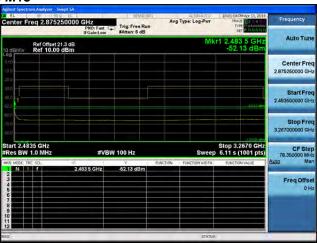
Conducted Bandedge Average, 2462 MHz, HT-20, M8 to M15

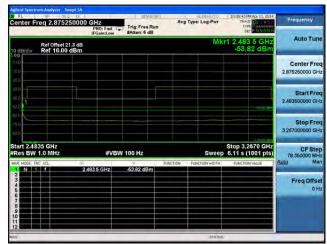


Antenna A



Antenna C



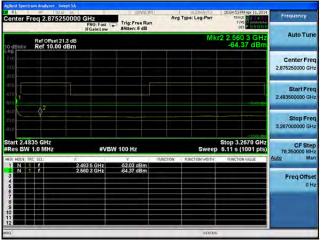


Antenna D

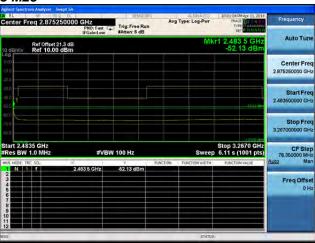


Conducted Bandedge Average, 2462 MHz, HT-20, M16 to M23

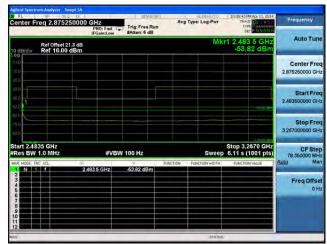




Antenna C



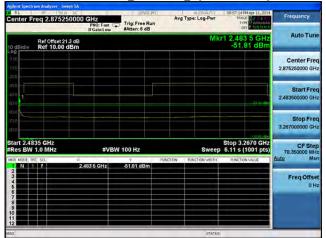
Antenna B

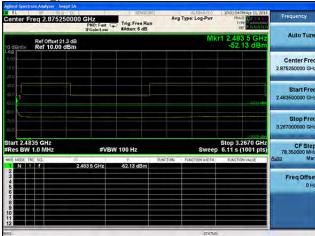


Antenna D



Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M0 to M7





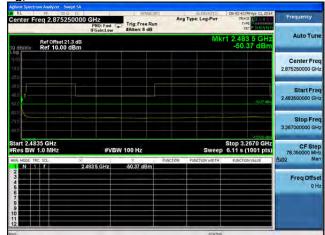
Antenna A Antenna B

Page No: 375 of 387







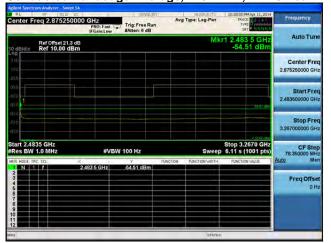


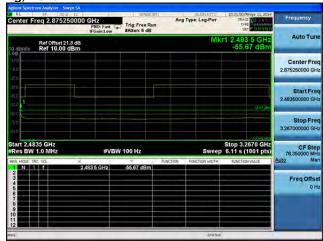
Antenna A

Antenna B



Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M0 to M7





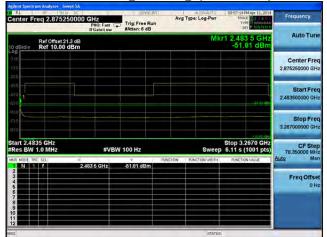
Antenna B



Antenna C



Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M8 to M15



Antenna A

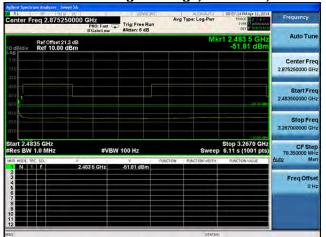
| Aug Type: Leg Per | Avg Type: Leg Per | Avg

Antenna C

Page No: 378 of 387



Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M16 to M23



| Agriculture Uniform | Agriculture Uniform

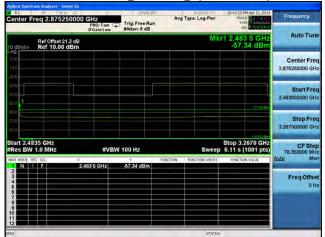
Antenna B



Antenna C



Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M0 to M7

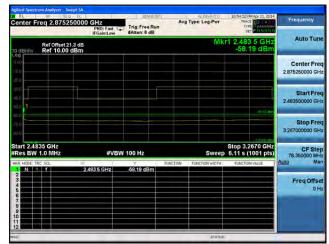


Antenna A



Antenna C

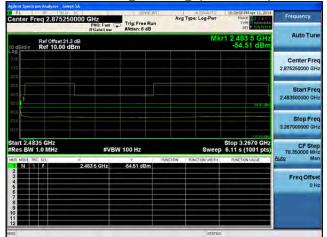


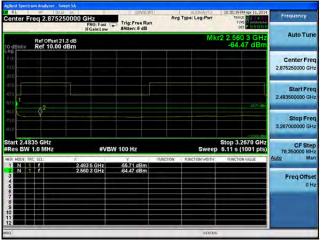


Antenna D



Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M8 to M15

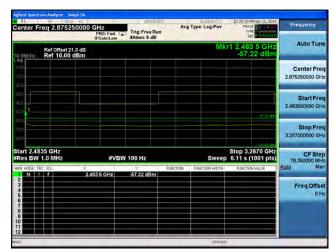




Antenna C



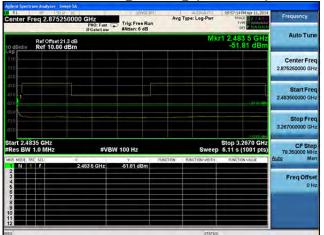
Antenna B



Antenna D



Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M16 to M23





Antenna B

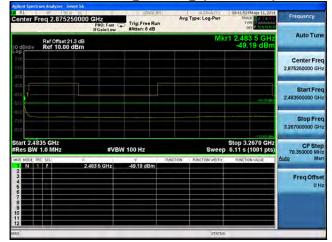


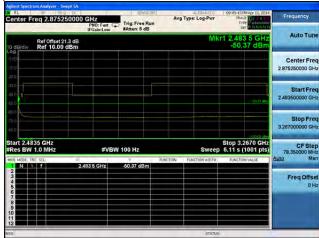
Antenna C

Antenna D



Conducted Bandedge Average, 2462 MHz, HT-20 STBC, M0 to M7





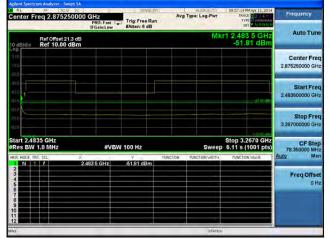
Antenna A

Antenna B

Page No: 383 of 387



Conducted Bandedge Average, 2462 MHz, HT-20 STBC, M0 to M7



Agricul Spectrum Analyzer - Gerger SA | Science | Scienc

Antenna A

| April | Apri

Antenna C

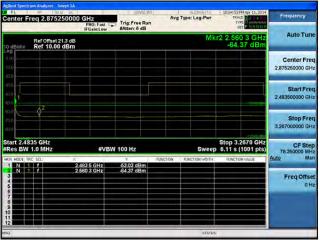
Page No: 384 of 387



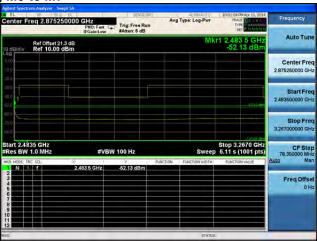
Conducted Bandedge Average, 2462 MHz, HT-20 STBC, M0 to M7

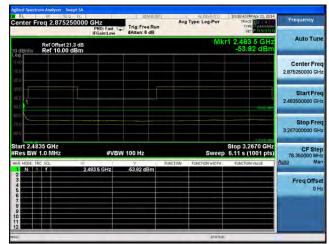


Antenna A

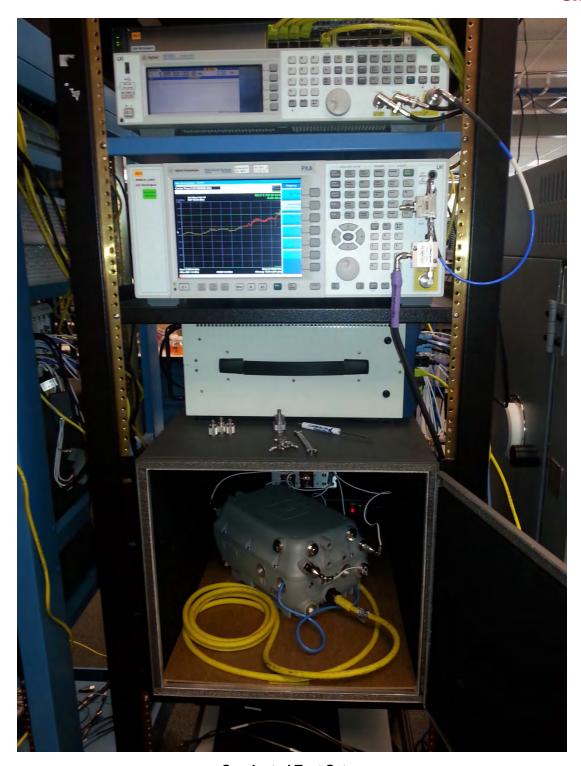


Antenna C





Antenna D



Conducted Test Setup

Page No: 386 of 387



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

Equip #	Manufacturer	Model	Description	Last Cal	Next Due
CIS-50378	Agilent	N9030A	PXA Spectrum Analyzer	2/27/2014	1/17/2015

Page No: 387 of 387