🔆 Agilent						Marker
Ref 20 dBr #Peak	n -	#Atten 18 dB		M	kr4 20.92 GHz -44.19 dBm	Select Marker 1 2 3 <u>4</u>
Log 10 dB/ Offst	→ 					Normal
13.1 dB DI -27 й		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Anna Anna	and the second		Delta
dBm LgAv						Delta Pair (Tracking Ref) Ref <u>∆</u>
Center 20. #Res BW 1 Marker	.02 GHz MHz Trace	# V Type	'BW 3 MHz X Axis	S #Ѕмеер 1	pan 39.97 GHź 0 s (2000 pts) Amplitude	Span Pair Span <u>Center</u>
1 2 3 4	(1) (1) (1) (1)	Freq Freq Freq Freq	5.23 GHz 10.46 GHz 15.69 GHz 20.92 GHz		7.17 dBm -47.91 dBm -43.90 dBm -44.19 dBm	Off
						More 1 of 2
Copyright	2000-20	04 Agilent T	echnologies			

Conducted Spurs, 5220 / 5240 MHz, Non HT/VHT40, 6 to 54 Mbps

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🔆 Agilent				Marker
Ref 20 dBm #Peak	#Atten 18 dB		Mkr4 20.92 GHz -44.20 dBm	Select Marker
Log 10 dB/ Offst				Normal
13.1 dB DI -27.0	www.com	·····	Munum market	Delta
dBm LgAv				Delta Pair (Tracking Ref) Ref <u>∆</u>
Center 20.02 G #Res BW 1 MHz	Hz #1	/BWI3 MHz ⊧	Span 39.97 GHź #Sweep 10 s (2000 pts) Amplituda	Span Pair Span <u>Center</u>
1 (1) 2 (1) 3 (1) 4 (1)) Freq) Freq) Freq) Freq) Freq	5.23 GHz 10.46 GHz 15.69 GHz 20.92 GHz	7.56 dBm -46.14 dBm -44.06 dBm -44.20 dBm	- Off
				More 1 of 2
Copyright 200	0–2004 Agilent 1	echnologies		

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

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🔆 Agilent			Marker
Ref 20 dBm #At #Peak 1	ten 18 dB	Mkr4 20.96 GHz -44.31 dBm	Select Marker
Log 10 dB/ Offst			Normal
13.1 dB DI _27.0		walker and the second second second	Delta
dBm LgAv			Delta Pair (Tracking Ref) Ref <u>∆</u>
Center 20.02 GHz #Res BW 1 MHz	#VBW 3 MHz	Span 39.97 GHź #Sweep 10 s (2000 pts) Amplituda	Span Pair Span <u>Center</u>
1 (1) 2 (1) 3 (1) 4 (1)	Freq 5.24 GHz Freq 10.48 GHz Freq 10.72 GHz Freq 20.96 GHz	8.39 dBm -48.00 dBm -42.84 dBm -44.31 dBm	Off
			More 1 of 2
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Conducted Spurs, 5240 MHz, Non HT/VHT20, 6 to 54 Mbps

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🔆 Agilent				Marker
Ref 20 dBm #Peak	#Atten 18 dB		Mkr4 20.96 GHz -45.00 dBm	Select Marker
Log 10 dB/ Offst				Normal
13.1 dB DI _27.0	2 3 2 3	A share a shar	and the second	Delta
dBm				Delta Pair (Tracking Ref) Ref <u>∆</u>
Center 20.02 GH: #Res BW 1 MHz	Z # ♥	BN 3 MHz #S⊮	Span 39.97 GHź veep 10 s (2000 pts) Amplituda	Span Pair Span <u>Center</u>
1 (1) 2 (1) 3 (1) 4 (1)	Freq Freq Freq Freq Freq	5.24 GHz 10.48 GHz 15.72 GHz 20.96 GHz	9.72 dBm -47.74 dBm -43.96 dBm -45.00 dBm	- Off
				More 1 of 2
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Conducted Spurs, 5240 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3

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Conducted Bandedge

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 789033 D01 General UNII Test Procedures Old Rules v01r04 to substitute conducted measurements in place of radiated measurements.

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:	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 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.

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Average

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	7	<u>-56.57</u>				-49.57	-41.25	8.32
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	13	<u>-61.34</u>	<u>-61.63</u>	<u>-61.35</u>	<u>-61.56</u>	-42.45	-41.25	1.20
5180	HT/VHT20, M0 to M7, M0.1 to M9.1	1	7	<u>-54.89</u>				-47.89	-41.25	6.64
,	HT/VHT20, M16 to M23, M0.3 to M9.3	4	7	<u>-61.23</u>	<u>-61.17</u>	<u>-61.01</u>	<u>-61.09</u>	-48.10	-41.25	6.85
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	13	<u>-61.34</u>	<u>-61.36</u>	<u>-61.45</u>	<u>-61.15</u>	-42.30	-41.25	1.05
	Non HT/VHT40, 6 to 54 Mbps	1	7	<u>-49.63</u>				-42.63	-41.25	1.38
5190	HT/VHT40, M0 to M7, M0.1 to M9.1	1	7	<u>-48.43</u>				-41.43	-41.25	0.18
_,	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	10	<u>-58.3</u>	<u>-58.59</u>			-45.43	-41.25	4.18
	Non HT/VHT80, 6 to 54 Mbps	1	7	<u>-54.6</u>				-47.60	-41.25	6.35
5210	HT/VHT80, M16 to M23, M0.3 to M9.3	3	7	<u>-56.49</u>	<u>-57</u>	<u>-55.73</u>		-44.60	-41.25	3.35
,	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	3	9	<u>-57.35</u>	<u>-58.4</u>	-58.27		-44.21	-41.25	2.96

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Peak

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	7	<u>-49.91</u>				-42.91	-21.25	21.66
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	13	<u>-57.31</u>	<u>-59.57</u>	<u>-56.74</u>	<u>-57.75</u>	-38.70	-21.25	17.45
5180	HT/VHT20, M0 to M7, M0.1 to M9.1	1	7	<u>-46.29</u>				-39.29	-21.25	18.04
_,	HT/VHT20, M16 to M23, M0.3 to M9.3	4	7	<u>-53.83</u>	<u>-53.28</u>	<u>-55.44</u>	<u>-55.47</u>	-41.38	-21.25	20.13
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	13	<u>-58.77</u>	<u>-54.45</u>	<u>-57.41</u>	<u>-55.05</u>	-37.06	-21.25	15.81
	Non HT/VHT40, 6 to 54 Mbps	1	7	<u>-46.79</u>				-39.79	-21.25	18.54
5190	HT/VHT40, M0 to M7, M0.1 to M9.1	1	7	<u>-44.95</u>				-37.95	-21.25	16.70
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	10	<u>-54.41</u>	<u>-51.16</u>			-39.48	-21.25	18.23
	Non HT/VHT80, 6 to 54 Mbps	1	7	<u>-50.29</u>				-43.29	-21.25	22.04
5210	HT/VHT80, M16 to M23, M0.3 to M9.3	3	7	<u>-51.89</u>	<u>-52.6</u>	<u>-48.78</u>		-38.98	-21.25	17.73
2,	HT/VHT80 Beam Forming, M8 to	2	0	40.54	55.07	51.20		27.75	24.25	16.50

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-21.25

-37.75

16.50

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<u>-55.87</u>

<u>-49.54</u>

3

M15, M0.2 to

M9.2

9

-51.29

🔆 Agi	ilent										Γ	Display
Ref 20 #Peak	dBm		*Atten	18 dB				Mkr2	5.150 -56.5	0 GHz 7 dBm	F	ull Screen
Log 10 dB/ Offst 13.1 dB											Di <u>On</u>	splay Line -48.25 dBm Off
DI -48.2 dBm LgAv										27 		Limits
Start 4 #Res B	4.500 0 \$₩ 1 MI er T) GHz Hz race	Тупа	#Ų	BW 100 x	Hz Axis	Swe	Stoj ep 5.30	p 5.180 02 s (60 Amplit) 0 GHź 01 pts) ude	Ac	tive Fctn Position Bottom
1 2		(1) (1)	Freq Freq		5.18 5.15	0 0 GHz 0 0 GHz			-2.40 -56.57	dBm dBm		Title⊦
											Pre	ferences⊦
Copyri	ght 20	000-20	304 Agi	ilent T	echnol	ogies						

Conducted Bandedge Average, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps

Antenna A

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Conducted Bandedge Average, 5180 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps

Antenna A



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🔆 Agi	lent										Disp	lay
Ref 20 #Peak	dBm		#Atten	18 dB				Mkr2	5.150 -61.3)0GHz 5dBm	Fulls	Screen
Log 10 dB/ Offst											Displa –48 On	a y Line .25 dBm <u>Off</u>
13.1 dB												
LgAv										2 •		Limits
Start 4 #Res B	.500 0 ₩ 1 M) GHz Hz	Typo	#V	BW 100	Hz	Swe	Sto ep 5.30	p 5.180 02 s (6) Amplit) 0 GHź 01 pts) uda	Activ Po	e Fctn sition Bottom
1 2	=1 1	(1) (1)	Fred Fred	1	5.18 5.15	0 0 GHz 0 0 GHz			-14.01 -61.35	dde dBm dBm		Title
											Prefer	ences⊦
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🔆 Agi	ilent)isplay
Ref 20 #Peak	l dBm		*Atten	18 dB				Mkr2	5.150 -61.5	0 GHz 6 dBm	F	ull Screen
Log 10 dB/ Offst											Di On	splay Line -48.25 dBm <u>Off</u>
13.1 dB												
LgAv										2 •		Limits
Start 4 #Res B	4.500 (SW 1 M) GHz Hz		#V	BW 100	Hz	Swe	Sto ep 5.30	p 5.180 02 s (6) 0 GHź 01 pts)	Ac	tive Fctn Position
Marko 1 2	er T	race (1) (1)	Type Freq Freq		х 5.18 5.15	Axis 0 0 GHz 0 0 GHz			Amplit -16.32 -61.56	ude dBm dBm		Bottom Title
											Pre	ferences
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Antenna D

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

Antenna A

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



Antenna B

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Antenna C



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🔆 Agilent Display Mkr2 5.150 0 GHz Ref 20 dBm #Peak Log -61.34 dBm #Atten 18 dB Full Screen Display Line -48.25 dBm 10 dB/ 0n Offst 13.1 dB Off 2 \$ Limits⊦ LgAv Start 4.500 0 GHz Stop 5.180 0 GHź Active Fctn *Res BW 1 MHz **Sweep** 5.302 s (601 pts) Position. **#VBW** 100 Hz Trace (1) (1) X Axis 5.180 0 GHz 5.150 0 GHz Amplitude -16.37 dBm -61.34 dBm Type Freq Freq Marker Bottom 12 **Title** Preferences. Copyright 2000-2004 Agilent Technologies

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

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🔆 Ag	ilent											Display
Ref 20 #Peak	dBm		#Atten	18 dB				Mkr2	5.150 -61.3	0 GHz 6 dBm		Full Screen
Log 10 dB/ Offst										1 	C On)isplay Line -48.25 dBm <u>Off</u>
13.1 dB												
LgAv										2		Limits≻
Start # #Res B	4.500 0 S W 1 M	0 GHz Hz		#V	BW 100	Hz	Swee	Stop 5.30) 5.180) 0 GHź 01 pts)	A	ctive Fctn Position•
Mark	er T	race	Туре		X	Ĥxis			Amplit	ude		Bottom
1 2		(1) (1)	Freq Freq		5.18 5.15	0 0 GHz 0 0 GHz			-15.41 -61.36	dBm dBm		Title⊦
											Pro	eferences⊦
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Antenna C





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🔆 Agi	ilent										Display	
Ref 20 #Peak	dBm		#Atten	18 dB				Mkr1	5.190 -14.2	0 GHz 6 dBm	Full Scree	en
Log 10 dB/ Offst											Display Li i –48.25 dl <u>On</u> (ne Bm Off
13.1 dB DI										2		
dBm LgAv						,_			^	<u>۲</u>	Limit	:s•
Start 4 #Res B	4.500 e \$₩ 1 Mi) GHz Hz		ŧV	BW 100	Hz	Swe	Stop eep 5.3) 5.190 88 s (60	0 GHź 01 pts)	Active Fct Positio	tn on•
Marke 1 2	er T	race (1) (1)	Type Freq Freq		X 5.19 5.15	Axis 0 0 GHz 0 0 GHz			Amplit -14.26 -49.63	ude 38m 38m	Titl	om Ie∙
											Preference	;S≻
Copyri	ght 20	000-20)04 Agi	lent T	echnol	ogies						

Conducted Bandedge Average, 5190 MHz, Non HT/VHT40, 6 to 54 Mbps

Antenna A

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Conducted Bandedge Average, 5190 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1

Antenna A

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Conducted Bandedge Average, 5190 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1

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Antenna A



Antenna B

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🔆 Agi	ilent										Display
Ref 20 #Peak	dBm		#Atten	18 dB				Mkr2	5.150 -54.6)0GHz 0dBm	Full Screen
Log 10 dB/ Offst 13.1 dB											Display Line -48.25 dBm <u>On</u> Off
DI -48.2 dBm LgAv	1 500 0										Limits
*Res B	н.500 е КМ 1 М эг — Т) GHZ Hz race	Туре	ŧ۷	BW 100 ×	Hz	Swe	ep 5.53	ם 5.210 6 s (6 Amplit	00 GHZ 01 pts) ude	HCTIVE F CTN Position Bottom
1 2		(1) (1)	Frec		5.21 5.15	0 0 GHz 0 0 GHz			-14.51 -54.60	dBm dBm	Title
											Preferences
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Conducted Bandedge Average, 5210 MHz, Non HT/VHT80, 6 to 54 Mbps

Antenna A

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Conducted Bandedge Average, 5210 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3

Antenna A



Antenna B

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🔆 Agil	ent										Display
Ref 20 #Peak	dBm		*Atten	18 dB				Mkr2	5.150 -55.7)0GHz 3dBm	Full Screen
Log 10 dB/ Offst 13.1											Display Line -48.25 dBm On <u>Off</u>
dB										2	
LgAv -										ō.	Limits
Start 4 #Res B	.500 0 W 1 MH	GHz Iz		ŧV	BW 100	Hz	Swe	Stoj ep 5.53	p 5.210 36 s (6) 0 GHź 01 pts)	Active Fctn Position
Marke 1 2	er Tr ((ace (1) (1)	Type Freq Freq		X 5.21 5.15	Axis 0 0 GHz 0 0 GHz			Amplit -19.73 -55.73	ude dBm dBm	Bottom Title•
											Preferences
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Antenna C

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Conducted Bandedge Average, 5210 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2

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Antenna A



Antenna B

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₩. Agilent Display Mkr2 5.150 0 GHz Ref 20 dBm #Atten 18 dB -58.27 dBm Full Screen #Peak Log Display Line -48.25 dBm 10 dB/ 0n Off Offst 13.1 dB 2 0 Limits. LgAv Stop 5.210 0 GHź Start 4.500 0 GHz Active Fctn *Res BW 1 MHz Sweep 5.536 s (601 pts) Position• **#VBW** 100 Hz Type Freq Freq X Axis 5.210 0 GHz 5.150 0 GHz Amplitude -21.84 dBm -58.27 dBm Bottom Marker Trace (1) (1) 1 2 **Title** Preferences. Copyright 2000-2004 Agilent Technologies

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Antenna C

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🔆 Agilent				Display
Ref 20 dBm #Peak	#Atten 18 dB	Mkr2	5.150 0 GHz -49.91 dBm	Full Screen
Log 10 dB/ Offst				Display Line -28.25 dBm <u>On</u> Off
13.1 dB DI			2	
−28.2 dBm <mark>⊷∿γγγν™γγ∕γγγν</mark> LgAv	ar Agamman na magalar Abada	งกลุ่มขึ้นขอ _ส มูลการการกลุ่ม _ไ ประการสูญใจกมา	Annandanya	Limits
Start 4.500 0 GHz #Res BW 1 MHz	*VBW 1 M	Sto Hz Sweep 1.16	p 5.180 0 GHz 6 ms (601 pts)	Active Fctn Position
Marker Trace 1 (1) 2 (1)	lype X Freq 5.180 Freq 5.150	HXIS 3 0 GHz 3 0 GHz	Hmplitude 1.12 dBm -49.91 dBm	Title
				Preferences
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Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps

Antenna A

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🔆 Agiler	nt						Display
				1	Mkr2 5.150	0 GHz	
Ref 20 dl	Bm 🕴	#Atten 18 dB			-57.3	1 dBm	Full Screen
+reak Log							
10 -						1	Display Line
dB/						<u> </u>	–40.25 dBm On Off
0ffst 131							
dB –						fi	
dott	Hubertholder	warmen Manser	and the and some	Whentheliner	A MARCHART	MAR	
LaAv 🛄	-1 ft fus				· • • • • • • • • • • • • • • • • • • •	Ï	Limits⊦
Start 4.5	00 0 GHz			•	Stop 5.180	0 GHz	Active Fctn
#Res BW	1 MHZ	# 1	VBW 1 MHZ	Ѕмеер	1.16 ms (60)1 pts)	Position Bottom
Marker 1	(1)	lype Freg	X HXIS 5.180 0 GHz		-9 . 13 (ide IBm	Doctoin
2	(1)	Freq	5.150 0 GHz		-57.31 (¦Bm ∣	Titles
							The
							Preferences.
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Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps

Antenna A



Antenna B

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Antenna C



Antenna D

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🔆 Ag	ilent											Display
Ref 20 #Peak) dBm		*Atten	18 dB				Mkr2	5.150 -46.2	0 GHz 9 dBm	F	ull Screen
Log 10 dB/											D On	isplay Line -28.25 dBm Off
Offst 13.1 dB DI										2		
-28.2 dBm LgAv	ndudyAy.M	for march	yangan digu	thinn a	hulphuru	ny turbh	y Anna Maria	nlimatika	nrvy/tww	••• <mark>•</mark> ••• [*]		Limits
Start - #Res E	4.500 0 3W 1 MH	GHz Iz		#V	/BW 1 M	l IHz	Swe	Stoj ep 1.16	p 5.180 6 ms (6	0 GHz 01 pts)	Ac	ctive Fctn Position∙
Mark 1	er Tr	race (1)	Type		X 5 1 9	Axis aacu⊸			Amplit 0.71	ude		Bottom
2	((1)	Freq		5.15	0 0 GHz			-46.29	dBm		Title⊦
											Pre	ferences
Copyri	ight 20	00-20	104 Ag	ilent T	echnol	ogies						

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

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🔆 Agilent		,,,	,	Display
Ref 20 dBm #Peak	#Atten 18 dB		Mkr2 5.150 0 GHz -53.83 dBm	Full Screen
Log 10 dB/ Offst				Display Line -48.25 dBm On <u>Off</u>
13.1 dB			2	
LgAv	Mannan Manna Mannan an a	vananan (haranan haran hara An haran h	anapitalitana tapat ya Angelana tapat ya Angelana ya Angelana ya Angelana ya Angelana ya Angelana ya Angelana y Angelana ya Angelana ya Ange	Limits
Start 4.500 0 GHz #Res BW 1 MHz Marker Trace	# VB	N 1 MHz X Axis	Stop 5.180 0 GHz Sweep 1.16 ms (601 pts) Amolitude	Active Fctn Position Bottom
	Freq Freq	5.180 0 GHz 5.150 0 GHz	-8.36 dBm -53.83 dBm	Title
				Preferences
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Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3

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Antenna B

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🔆 Agilent				Display
Ref 20 dBm #Peak	#Atten 18 dB		Mkr2 5.150 0 GH: _55.44 dBm	Full Screen
Log 10 dB/ Offst 13.1 dB				Display Line -48.25 dBm On <u>Off</u>
<mark>պուսիսիսիսիսիսիսիսիսիսիսիսիսիսիսիսիսիսիսի</mark>	alan Manalan an Ing Manalan San San San San San San San San San S	pyinya/yondeyn ^a ayoladi	ฟนะงามมุษรรมช _{ิม} ที่	Limits
Start 4.500 0 GHz *Res BW 1 MHz	#VBW 1	MHz Swee	Stop 5.180 0 GH: p 1.16 ms (601 pts	Active Fctn Position
Marker Trace 1 (1) 2 (1)	Type Freq 5.1 Freq 5.1	X Axis 80 0 GHz 50 0 GHz	Amplitude -5.25 dBm -55.44 dBm	Title
				Preferences.
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Antenna C

Mkr2 5.150 GHz Ref 20 dBm #Atten 18 dB -55.47 dBm Log Image: Constraint of the state of the	🔆 🔆 Agilent	Display
Ref 20 dBm #Atten 18 dB -55.47 dBm #Peak	Mkr2 5.150 0 G)Hz
Image: Step S.180 0 GHz Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz Image: Step S.180 0 GHz	Ref 20 dBm #Atten 18 dB55.47 dE	Bm Full Screen
10 10 <td< th=""><th></th><th></th></td<>		
dB/ Offst 13.1 dB -48.25 dBm on 13.1 dB -48.25 dBm on 14.1 dB -48.25 dBm on 15.1 dB -48.25 dBm on 15.1 dB -48.25 dBm on 15.1 dB		Display Line
Offst 13.1 dB 14.500 0 GHz start 4.500 0 GHz Stop 5.180 0 GHz *Res BW 1 MHz *VBW 1 MHz Sweep 1.16 ms (601 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 5.180 0 GHz -3.63 dBm 2 (1) Freq 5.150 0 GHz -55.47 dBm Title Preferences 11 Freq 5.150 0 GHz -55.47 dBm Title	dB/	-48.25 dBm
Indiana India Indiana Indiana	131	
LgAv Start 4.500 0 GHz *Res BW 1 MHz 1 (1) Freq 5.180 0 GHz 2 (1) Freq 5.150 0 GHz -3.63 dBm 2 (1) Freq 5.150 0 GHz -3.63 dBm 2 (1) Freq 5.150 0 GHz -55.47 dBm Titlev Preferencesv	dB	
LgAv Start 4.500 0 GHz *Res BW 1 MHz Trace 1 (1) Freq 5.180 0 GHz (1) Freq 5.150 0 GHz (1) Fr		
LgAv Start 4.500 0 GHz *Res BW 1 MHz *VBW 1 MHz Sweep 1.16 ms (601 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 5.180 0 GHz -3.63 dBm 2 (1) Freq 5.150 0 GHz -55.47 dBm Title Preferences Copyright 2000-2004 Agilent Technologies	www.www.www.white.how the provide a new work of the for the second and the second and the second second second	
Start 4.500 0 GHz Stop 5.180 0 GHz #Res BW 1 MHz #VBW 1 MHz Sweep 1.16 ms (601 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 5.180 0 GHz -3.63 dBm 2 (1) Freq 5.150 0 GHz -55.47 dBm Title> Preferences> Copyright 2000-2004 Agilent Technologies		Limits⊦
Start 4.500 0 GHz Stop 5.180 0 GHz #Res BW 1 MHz #VBN 1 MHz Sweep 1.16 ms (601 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 2 (1) Freq 5.150 0 GHz -3.63 dBm 2 (1) Freq 5.150 0 GHz -55.47 dBm Title		
*Res BW 1 MHz *VBW 1 MHz Sweep 1.16 ms (601 pts) Position> Marker Trace Type X Axis Amplitude 1 (1) Freq 5.180 0 GHz -3.63 dBm 2 (1) Freq 5.150 0 GHz -55.47 dBm Title> Copyright 2000-2004 Agilent Technologies	Start 4.500 0 GHz Stop 5.180 0 G	Hz Active Fctn
Marker Trace Type X Axis Amplitude 1 (1) Freq 5.1800 GHz -3.63 dBm 2 (1) Freq 5.1500 GHz -55.47 dBm Title Preferences Copyright 2000-2004 Agilent Technologies	#Res BW 1 MHz	ts) Position
2 (1) Freq 5.150 0 GHz -55.47 dBm Title> Preferences> Copyright 2000-2004 Agilent Technologies	Marker Trace Type X Axis Amplitude 1 (1) From 5180 0 GHz _3 63 dBm	Bottom
Copyright 2000-2004 Agilent Technologies	2 (1) Freq 5.150 0 GHz -55.47 dBm	
Preferences		Title
Copyright 2000-2004 Agilent Technologies		
Converight 2000-2004 Agilent Technologies		Proferences
Copyright 2000–2004 Agilent Technologies		Therefelloes
	Copyright 2000–2004 Agilent Technologies	

Antenna D

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🔆 Agilent					Display
Ref 20 dBm #Peak	#Atten 18 dB		Mkr2	5.150 0 GHz -58.77 dBm	Full Screer
Log 10 dB/ Offst 13.1 dB					Display Line -48.25 dBn On <u>Of</u>
	yTHMAD,MMAJUHUHMA	anan panan Madawa An	alimentan metalahan s		Limits
Start 4.500 0 GHz #Res BW 1 MHz Marker Trace	#VE	X Axis	Stor Sweep 1.16	> 5.180 0 GHz ms (601 pts) Amplitude	Active Fctn Position Bottom
$ \begin{array}{c} 1 & (1) \\ 2 & (1) \end{array} $	Freq Freq	5.180 0 GHz 5.150 0 GHz		–12.57 dBm –58.77 dBm	Title
					Preferences
Copyright 2000-2	004 Agilent Te	chnologies			

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

Antenna A

🔆 Agilent					Display
Ref 20 dBm #Peak	#Atten 18 dB		Mkr2	5.150 0 GHz -54.45 dBm	Full Screen
Log 10 dB/ Offst				Ŕ	Display Line -48.25 dBm On <u>Off</u>
13.1 dB				2	
ություն LgAv	MANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	upper and the start of the star	vanderalpranter	n ya kata kata kata kata kata kata kata k	Limits
Start 4.500 0 GHz #Res BW 1 MHz Marker Trace	#VB	W 1 MHz X Axis	Stop Sweep 1.16	5.180 0 GHz ms (601 pts) Amplitude	Active Fctn Position Bottom
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Freq Freq	5.180 0 GHz 5.150 0 GHz	-1 -5	11.47 dBm 54.45 dBm	Title
					Preferences
Copyright 2000-2	2004 Agilent Te	chnologies			

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* Agilent	Display
Mkr2 5.150 0 GHz Ref 20 dBm #Atten 18 dB57.41 dBm	Full Screen
*Peak Log 10 dB/ Offst	Display Line -48.25 dBm On <u>Off</u>
13.1 dB	
	Limits
Start 4,500 0 GHz Stop 5,180 0 GHz #Res RW 1 MHz #URW 1 MHz Sween 1 16 ms (601 pts)	Active Fctn Position
Marker Trace Type X Axis Amplitude	Bottom
1 (1) Freq 5.18006Hz -9.67dBm 2 (1) Freq 5.15006Hz -57.41dBm	Title⊦
	Preferences

Antenna C

🔆 Agile	ent					Display
Ref 20 c #Peak	dBm	#Atten 18 dE	3	Mkr2	5.150 0 GHz -55.05 dBm	Full Screen
Log 10 dB/ Offst						Display Line -48.25 dBm On <u>Off</u>
13.1 dB					2	
M LgAv	konneliktrassiteri	Whaterdary Methodary has	Minatry of Manadate	m <mark>anahiraharan sa</mark> h	Myayadayad	Limits
Start 4.5 *Res BW	500 0 GHz 1 MHz	#	VBW 1 MHz	Stop Sweep 1.16	5.180 0 GHz ms (601 pts)	Active Fctn Position
Marker 1 2	(1) (1) (1)	lype Freq Freq	X Axis 5.180 0 GHz 5.150 0 GHz		Amplitude -10.77 dBm -55.05 dBm	Title
						Preferences
Copyrig	ht 2000-2	004 Agilent	lechnologies			

Antenna D

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🔆 Ag	jilent										Displ	ay
Ref 20) dBm		#Atten	18 dB				Mkr2	5.150 -46.7	0 GHz 9 dBm	Full S	creen
#Peak Log											Dienla	y Lino
10 dB/										₩	-28. 0n	25 dBm Off
0ffst 13.1											<u></u>	
ab Dl										2, <mark> </mark>		
-28.2 dBm	nya/MiNyiyu	angahala	yldytrwill	V/MAN H	nhhhru	Nurther	Hydrodynus	here with the	And Market	VII		Limits⊦
LgAv									5 400			
start #Res I	4.500 U BW 1 MI	9 GHZ Hz		#V	BW 1 M	IHz	Swee	Sto p 2011 Stop) 5.190 i ms (61	0 GHZ 01 pts)	Hotive	e F CTN sition•
Mark	er T	race /1>	Type		X = 10	Axis			Amplit	ude		Bottom
2		(1)	Freq		5.19	0 0 GHz 0 0 GHz			-46.79	dBm dBm		Title∙
											Prefere	ences•
Copyr	ight 20	000-20)04 Agi	ilent T	echnol	ogies						

Conducted Bandedge Peak, 5190 MHz, Non HT/VHT40, 6 to 54 Mbps

Antenna A

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🔆 Agilent Display Mkr2 5.150 0 GHz -44.95 dBm Ref 20 dBm #Atten 18 dB Full Screen #Peak Log **Display Line** 10 -28.25 dBm dB/ Off 0n Offst 13.1 dB 2 DI -28.2 yedayyayayatanyahayahaya der alle MM dBm Limits. LgAv Start 4.500 0 GHz Stop 5.190 0 GHz **Active Fctn** *Res BW 1 MHz Position[,] **#VBW** 1 MHz Sweep 1.16 ms (601 pts) Bottom Marker Trace Amplitude X Axis Type 5.190 0 GHz 5.150 0 GHz -2.52 dBm -44.95 dBm Freq (1)1 2 (1)Freq **Title**→ Preferences+ Copyright 2000-2004 Agilent Technologies

Conducted Bandedge Peak, 5190 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1

Antenna A

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Conducted Bandedge Peak, 5190 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1

Antenna A

🔆 Ag	jilent										B	W/Avg
Ref 20 #Peak	0 dBm		*Atten	18 dB				Mkr2	5.150 -51.1	0 GHz 6 dBm	Auto	Res BW 1.0 MHz <u>M</u> an
Log 10 dB/ Offst										î	Auto	Video BW 1.0 MHz <u>Man</u>
13.1 dB										2	Auto	VBW/RBW 1.00000 <u>Man</u>
LgAv	m/h/m	phyriun	hiyiny ma	vindengle	n myffol nu	ndenbyism	ayydwrhym	n an	f hand you'r	₩ [₩] Y	On	Average 100 <u>Off</u>
Start #Res	4.500 0 B W 1 M) GHz Hz		#V	BW 1 N	' 1Hz	Swei	Stoj ep 1.16	p 5.190 6 ms (6	0 GHz 01 pts)	Avg/ Log-f	′VBW Type Pwr (Video)►
Mark 1 2	er T	race (1) (1)	Type Freq Freq	1	x 5.19 5.15	(Axis 0 0 GHz 0 0 GHz			Amplit -7.75 -51.16	ude dBm dBm	<u>Auto</u>	Man
											Auto	Span/RBW 106 <u>Man</u>
Copyr	ight 20	000-20	004 Agi	ilent T	echnol	ogies						

Antenna B

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🔆 Agil	lent											Display
Ref 20 #Peak [dBm		#Atten	18 dB				Mkr2	5.150 -50.2	0 GHz 9 dBm	F	'ull Scree
Log 10 dB/ Offst										M	D <u>On</u>	isplay Line –28.25 dBr Of
13.1 dB DI										2		
-28.2 dBm 4 LgAv -	nd4Md4	щтурыч	utyphyty	hharala	attlefnand	general data	HWMWHA	papersite	the Angle of			Limits
Start 4 #Res B	.500 0 W 1 M	I GHz Iz		#V	/BW 1 M	1Hz	SME	Stoj eep 1.2	p 5.210 2 ms (6	0 GHz 01 pts)	A	ctive Fctn Position
Marke	er T	race (1)	Type Frea		X 5.21	́Ахіз ААбн л			Amplit -11,95	ude dBm		Bottor
2		(1)	Freq		5.15	0 0 GHz			-50.29	dBm		Title
											Pre	ferences
Copyrig	ght 20	00-20	004 Agi	ilent T	echnol	ogies						

Conducted Bandedge Peak, 5210 MHz, Non HT/VHT80, 6 to 54 Mbps

Antenna A

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🔆 Agilent				Display
Ref 20 dBm #Peak	#Atten 18 dB		Mkr2 5.150 0 0 -51.89 dE	Hz 3m Full Screen
Log 10 dB/				Display Line -48.25 dBm On Off
13.1 dB				
<mark>ԽԿումիստենին</mark> LgAv	an and the second second second	waa constanting tatumant	un alogo gay to and	Limits
Start 4.500 0 GHz #Res BW 1 MHz	#VBW 1	MHz Sm	Stop 5.210 0 0 eep 1.2 ms (601 p	Hz Active Fctn ts) Position
Marker Trace	Туре	X Axis	Amplitude	Bottom
$ \begin{array}{c} 1 & (1) \\ 2 & (1) \end{array} $	Freq 5.2 Freq 5.1	210 0 6H2 L50 0 GHz	-12.24 dBm -51.89 dBm	Title
				Preferences
Copyright 2000-2	004 Agilent Techn	ologies		

Conducted Bandedge Peak, 5210 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3

Antenna A



Antenna B

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🔆 👫	gilent											Display
Ref 2 #Peak	0 dBm		#Atten	18 dB				Mkr2	5.150 -48.7	0 GHz 8 dBm		Full Screer
LOG 10 dB/ Offst										philo	0n	Display Line -48.25 dBm <u>Off</u>
13.1 dB										2		
LgAv	Whym y w	ulwiji (zertwa	yhynni vith	havennaphry	gent constant	ekop#40.bjih	yMyterrativi	hymahyas	uyphVv/h			Limits
Start #Res	4.500 0 BW 1 M) GHz Hz		#V	BW 1 M	1Hz	Swe	Stop ep 1.2	• 5.210 ms (60	0 GHz 01 pts)	f	Active Fctn Position
Mari 1 2	(er l	race (1) (1)	lype Freq Freq		x 5.21 5.15	Axis 0 0 GHz 0 0 GHz			Amplitu -7.22 (-48.78 (ıde 18m 18m		Title
											Pr	eferences
Copyr	ight 2	000-20)04 Agi	ilent T	echnol	ogies						

Antenna C

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Conducted Bandedge Peak, 5210 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2

Antenna A

🔆 Agi	ilent										B	W/Avg
Ref 20 #Peak	∣dBm		*Atten	18 dB				Mkr2	5.150 -55.8	0 GHz 7 dBm	Auto	Res BW 1.0 MHz <u>Man</u>
Log 10 dB/ Offst										provide	Auto	Video BW 1.0 MHz <u>Man</u>
13.1 dB											Auto	VBW/RBW 1.00000 <u>Man</u>
LgAv	VINUA HU	hynnwitty	r-Wimpyte	yheen ykeyna	nyyery?	Water	vh#rtrafic	kayotutika	mangangang	é.	0n	Average 100 <u>Off</u>
Start # Res B	4.500 0 ≩₩ 1 M) GHz Hz		#V	BW 1 M	1Hz	Swe	Stop ep 1.2) 5.210 ms (6	0 GHz 01 pts)	Avg/ Log-	/ VBW Type Pwr (Video)∙
Mark 1 2	er T	race (1) (1)	Type Frec Frec		x 5.21 5.15	(Axis 0 0 GHz 0 0 GHz			Amplit -11.97 -55.87	ude dBm dBm	<u>Auto</u>	Man
											Auto	Span/RBW 106 <u>Man</u>
Copyri	ght 2	000-20	004 Ag	ilent T	echnol	ogies						

Antenna B

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Mkr2 5.150 0 GHz Ref 20 dBm #Atten 18 dB -51.29 dBm #Peak	Res BW 1.0 MHz uto <u>Man</u> Video BW
	Uideo Bld
10 dB/ Offst	1.0 MHz uto <u>Man</u>
13.1 dB	VBW/RBW 1.00000 uto <u>Man</u>
๚๚ <i>๚๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛</i>	Average 100 n <u>Off</u>
Start 4.500 0 GHz Stop 5.210 0 GHz Av #Res BW 1 MHz #VBW 1 MHz Sweep 1.2 ms (601 pts) Lot	vg/VBW Type .og-Pwr (Video)∙
Marker Trace Type X Axis Amplitude <u>Hu</u> 1 (1) Freq 5.210 0 GHz -16.38 dBm 2 (1) Freq 5.150 0 GHz -51.29 dBm	<u>uto</u> Man
Au	Span/RBW 106 uto <u>Man</u>

Antenna C

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Peak Excursion

15.407: The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

Set the spectrum analyzer span to view the entire emission bandwidth. The largest difference between the following two traces must be <= 13 dB for all frequencies across the emission bandwidth.

Set the spectrum analyzer span to view the entire emission bandwidth. The largest difference between the following two traces must be <= 13 dB for all frequencies across the emission bandwidth.

1st Trace: (Peak)

Set Span to encompass the entire emission bandwidth of the signal.

RBW = 1 MHz, VBW = 3 MHz

Detector = Peak Sweep = 10 s

Trace 1 = Max-hold

Ref Level Offset = correct for attenuator and cable loss

Ref Level = 20dBm

Atten = 10dBm

2nd Trace: (Average)

Trace 2 = clear right

Detector = Sample

Avg/VBW type = Pwr(RMS)

Average = 100

Sweep = single

Set marker Deltas

Trace 1 & Peak search Marker Delta Trace 2 & Peak search

Record the difference between the Peak and Average Markers

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Frequency (MHz)	Mode	Peak Excursion (dB)	Limit (dBm)	Margin (dB)
5180	Non HT/VHT20, 6 to 54 Mbps	8.582	13	4.42
5180	HT/VHT20, M0 to M7, M0.1 to M9.1	8.004	13	5.00
5190	Non HT/VHT40, 6 to 54 Mbps	8.026	13	4.97
5190	HT/VHT40, M0 to M7	7.845	13	5.16
5210	Non HT/VHT80, 6 to 54 Mbps	7.74	13	5.26
5210	HT/VHT80, M0 to M7, M0.1 to M9.1	8.466	13	4.53
5320	Non HT/VHT40, 6 to 54 Mbps	8.044	13	4.96
5230	HT/VHT40, M0 to M7, M0.1 to M9.1	7.798	13	5.20
5240	Non HT/VHT20, 6 to 54 Mbps	8.375	13	4.63
5240	HT/VHT20, M0 to M7, M0.1 to M9.1	7.938	13	5.06

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Graphical Test Results





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HT/VHT20, M0 to M7, M0.1 to M9.1

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Non HT/VHT40, 6 to 54 Mbps

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HT/VHT40, M0 to M7

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Non HT/VHT80, 6 to 54 Mbps

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🔆 Agilent		Peak Search
Ref 20 dBm #Atten a	∆ Mkr1 200 kHz 20 dB 8.466 dB	Next Peak
Tog 10 dB/	* *	Next Pk Right
Offst 13.1 dB	1 R	Next Pk Left
#PAvg		Min Search
V1 V2 Mathematical V1 V2 Mathematical V1 V2 Mathematical V1 V2	tellestering	Pk-Pk Search
£(f): FTun Swp 200.000 kHz		Mkr→CF
Center 5.210 0 GHz #Res BW 1 MHz	Span 120 MHz #VBW 3 MHz Sweep 1 ms (601 pts)	More 1 of 2
Copyright 2000-2008 Agi	lent Technologies	

HT/VHT80, M0 to M7, M0.1 to M9.1

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Non HT/VHT40, 6 to 54 Mbps

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Peak Search 🔆 Agilent ∆ Mkr1 8.8 MHz Ref 20 dBm #Atten 20 dB 7.798 dB Next Peak #Samp| ж Log 10 Next Pk Right 1 R dB/ Offst 13.1 dB Next Pk Left Min Search #PAvg 100 Middle agenter that V1 W2 Pk-Pk Search S3 FS AAI £(f): Marker 🛆 FTun Mkr → CF 8.800000 MHz Swp 7.798 dB More Center 5.230 0 GHz Span 60 MHz 1 of 2 **#VBW** 3 MHz *Res BW 1 MHz Sweep 1 ms (601 pts) Copyright 2000-2008 Agilent Technologies

HT/VHT40, M0 to M7, M0.1 to M9.1

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Non HT/VHT20, 6 to 54 Mbps

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HT/VHT20, M0 to M7, M0.1 to M9.1

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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 – 15 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 @3m2) 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. System was evaluated up to 40GHz but there were no measurable emissions above 18 GHz.

Please note that scans were performed to verify that duty cycle did not have a significant impact on the test results. Also, scans with reduced RBW and VBW settings were performed to verify that no significant emissions were present under the noise floor.

Graphical Test Results: 30MHz – 1000MHz (Transmitter on)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements

Please note that the high emissions at 375MHz, 125MHz, and 625MHz are digital emissions. These will be covered in the EMC test report. A comparison measurement was made with the radio transmitter turned off. The emissions were still observed when the radio was off, so it can be concluded that the emissions are not caused by the radio.



Test Results Table

Foi	rmal Data												
No	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
1	375.007	43.0	1.8	15.1	60.0	Quasi Max	V	141	195	46.0	14.0	Fail	
2	125.006	39.3	1.1	14.0	54.4	Quasi Max	Н	199	192	43.5	10.9	Fail	
3	625.010	30.9	2.4	19.4	52.7	Quasi Max	V	104	294	46.0	6.7	Fail	
4	48.369	26.4	.6	8.6	35.6	Quasi Max	V	138	78	40.0	-4.4	Pass	wideband
5	38.187	18.2	.5	15.0	33.8	Quasi Max	V	114	334	40.0	-6.2	Pass	wideband
6	33.179	17.1	.5	18.7	36.3	Quasi Max	V	127	86	40.0	-3.7	Pass	wideband
7	875.024	18.3	2.8	22.1	43.2	Quasi Max	Н	107	315	46.0	-2.8	Pass	
8	650.007	22.9	2.4	19.9	45.2	Quasi Max	Н	140	313	46.0	8	Pass	
9	62.131	20.6	.7	7.7	29.0	Quasi Max	V	120	71	40.0	-11.0	Pass	wide band
10	550.006	21.2	2.2	18.3	41.7	Quasi Max	Н	177	125	46.0	-4.3	Pass	

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Graphical Test Results: 30MHz – 1000MHz (Transmitter Off – EMC emission for comparison)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements

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Please note that the high emissions at 375MHz, 125MHz, and 625MHz are digital emissions. These will be covered in the EMC test report. A comparison measurement was made with the radio transmitter turned off. The emissions were still observed when the radio was off, so it can be concluded that the emissions are not caused by the radio.



Test Results Table

Foi	rmal Data												
No	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
1	374.956	40.8	1.8	15.1	57.7	Peak [Scan]	V	100	0	46.0	11.7	Fail	
2	125.181	38.6	1.1	14.0	53.6	Peak [Scan]	Н	200	0	43.5	10.1	Fail	
3	624.731	34.4	2.4	19.4	56.1	Peak [Scan]	V	100	0	46.0	10.1	Fail	
4	48.794	30.9	.6	8.4	39.8	Peak [Scan]	V	100	0	40.0	2	Pass	
5	33.031	17.4	.5	18.9	36.8	Peak [Scan]	V	100	0	40.0	-3.2	Pass	
6	38.488	21.2	.5	14.8	36.5	Peak [Scan]	V	100	0	40.0	-3.5	Pass	
7	875.113	17.1	2.8	22.1	42.0	Peak [Scan]	Н	200	0	46.0	-4.0	Pass	
8	650.194	18.9	2.4	19.9	41.2	Peak [Scan]	Н	300	0	46.0	-4.8	Pass	
9	599.875	20.4	2.3	18.4	41.2	Peak [Scan]	V	100	0	46.0	-4.8	Pass	
10	97.294	28.0	.9	9.6	38.5	Peak [Scan]	Н	200	0	43.5	-5.0	Pass	

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Graphical Test Results 802.11a: 1 – 18GHz (5180MHz – Average)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11A: 1 – 18GHz (5180MHz – Peak)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11n 20MHz: 1 – 18GHz (5180MHz – Average)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11n 20MHz: 1 – 18GHz (5180MHz – Peak)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11n 40MHz: 1 – 18GHz (5180MHz – Average)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11n 40MHz: 1 – 18GHz (5180MHz – Peak)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11ac 80MHz: 1 – 18GHz (5210MHz – Average)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11ac 80MHz: 1 – 18GHz (5210MHz – Peak)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11a 20MHz: 1 – 18GHz (5200MHz – Average)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11a 20MHz: 1 – 18GHz (5200MHz – Peak)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11a 20MHz: 1 – 18GHz (5240MHz – Average)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results 802.11a 20MHz: 1 – 18GHz (5240MHz – Peak)

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results: 18 - 26GHz



Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements

Graphical Test Results: 26 - 40GHz

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Radiated Receiver Spurious Measurements

Please note that scans were performed to verify that duty cycle did not have a significant impact on the test results. Also, scans with reduced RBW and VBW settings were performed to verify that no significant emissions were present under the noise floor.

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements

Please note that the high emissions at 375MHz, 125MHz, and 625MHz are digital emissions. These will be covered in the EMC test report.



Test Results Table

Pre	escan Dat	a											
No	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
1	374.956	39.6	1.8	15.1	56.5	Peak [Scan]	V	100	0	46.0	10.5	Fail	
2	624.731	32.4	2.4	19.4	54.2	Peak [Scan]	Н	200	0	46.0	8.2	Fail	
3	125.181	32.7	1.1	14.0	47.8	Peak [Scan]	V	100	0	43.5	4.3	Fail	
4	650.194	23.3	2.4	19.9	45.6	Peak [Scan]	V	100	0	46.0	4	Pass	
5	32.425	18.6	.5	19.3	38.4	Peak [Scan]	V	100	0	40.0	-1.6	Pass	
6	49.400	28.7	.6	8.1	37.3	Peak [Scan]	V	100	0	40.0	-2.7	Pass	
7	875.113	17.7	2.8	22.1	42.6	Peak [Scan]	Н	100	0	46.0	-3.4	Pass	
8	350.100	24.3	1.8	14.4	40.5	Peak [Scan]	V	200	0	46.0	-5.5	Pass	
9	99.113	27.0	.9	10.1	38.0	Peak [Scan]	Н	200	0	43.5	-5.5	Pass	
10	599.875	19.4	2.3	18.4	40.2	Peak [Scan]	V	100	0	46.0	-5.8	Pass	

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Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



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Appendix A: EUT Photos

EUT



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Power Supply



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Appendix B: Physical Test Arrangement Photos:

Title: Radiated Spurious Emissions Test Configuration 30M - 1000MHz



Title: Radiated Spurious Emissions Test Configuration 1G - 18GHz

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Title: Radiated Spurious Emissions Test Configuration 18 – 40GHz



Title: Conducted Test Setup

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Equip#	Manufacturer/ Model	Description	Last Cal	Next Due
25050	MICRO-COAX/	Coaxial Cable, 84.0 in.		
25658	UFB311A-1-0840-504504	to 18GHz	13-Feb-15	13-Feb-16
04447	MICRO-COAX/			
21117	UFB311A-0-2484-520520	Coaxial Cable-18Ghz	25-Aug-14	25-Aug-15
			207/0g 14	207/09/10
49563	HUBER + SUHNER/ Sucoflex 106A	Coaxial Cable, 8m	25-Aug-14	25-Aug-15
5004				
5691	MITEQ/ NSP1800-25-S1	PREAMPLIFIER	29-Jan-15	29-Jan-16
			20 0011 10	20 0411 10
4882	EMCO/ 3115	HORN ANTENNA	30-Jul-14	24-Jul-15
40507	CISCO/ Above 1GHz Site Cal	1GHz Cispr Site		
+0007		Verification	28-May-14	28-May-15
47300	Keysight (Agilent/HP) / N9038A	EMI Receiver	13- Jan-15	13- Jan-16
		40GHz Cable K		
47285	HUBER + SUHNER / Sucoflex 102E	Connector	06 Jun 2014	06 Jun 2015
4000			Cal Not	Cal Not
4883	EMCO/ 3115	HORN ANTENNA	Required	Required
34075	SCHAFENER / BSC 2000	Concreter 1 19CHZ	Cal Not	Cal Not Boguirod
	SCHAFFNER / RSG 2000		Required	Required
8166		ATTENUATOR	02 Feb 2015	02 Feb 2016
47004				
47294	FAIRVIEW MICROWAVE / ST6S-10	SMA Termination 6GHz	12-Aug-14	12-Aug-15
47293		SMA Termination 6CHz	12 Aug 14	12 Aug 15
	TAINVIEW MICROWAVE / ST05-10	SWA TEIMINATION OGHZ	12-Aug-14	12-Aug-15
49504		SMA Female 50 Ohm		
	JFW / 50T-039 SMA-F	Termination	27-Mar-15	27-Mar-16
40500		SMA Econolo 50 Ohm		
49503	IFW / 50T-039 SMA-F	Termination	27-Mar-15	27-Mar-16
		PRESET TORQUE	27 10101 10	27 100 10
20490		WRENCH 3.5 mm 12		
	Keysight (Agilent/HP) / 8710-1765	in/lbs	4-Feb-15	4-Feb-16
E4020		5 inch Temp/RH/Press		
54250	Newport / iBTHP-5-DB9	Sensor w/20ft cable	1-Feb-15	1-Feb-16
40503	Koveight (Agilegt/UD) / 54440A	Creative Analyzar	C lun 14	C hup 15
			6-Jun-14	o-Jun-15
54014	HUBER + SUHNER / Sucoflex 102E		27-Mar-15	27-Mar-16
49527	Keysight (Agilent/HP) / N8990K-A38	2x4 Switch Matrix	27-Mar-15	27-Mar-16

Appendix C: Test Equipment and Software Used to Perform Testing

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54047		RF Cable 2.4mm - N		
54017	HUBER + SUHNER / Sucoflex 102	Type 18GHz	27-Mar-15	27-Mar-16
54040		RF Cable 2.4mm - N		
54018	HUBER + SUHNER / Sucoflex 102	Type 18GHz	27-Mar-15	27-Mar-16
54040		RF Cable 2.4mm - N		
54016	HUBER + SUHNER / Sucoflex 102	Type 18GHz	27-Mar-15	27-Mar-16
E404E		RF Cable 2.4mm - N		
54015	HUBER + SUHNER / Sucoflex 102	Type 18GHz	27-Mar-15	27-Mar-16
00000		SPECTRUM		
33988	Keysight (Agilent/HP) / E4446A	ANALYZER, 44Ghz	9-Dec-14	9-Dec-15
20054		Combination Antenna,		
30654	Sunol Sciences / JB1	30MHz-2GHz	12-Dec-14	12-Dec-15
0110				
0440	CISCO/ NSA 5m Chamber	NSA 5m Chamber	7-Oct-14	7-Oct-15
27222		COMPARISON NOISE	Cal Not	Cal Not
21233	York / CNE V	EMITTER	Required	Required
		18-40GHz EMI Test		
41979		Head/Verification		
	Cisco / 1840	Fixture	9-Jul-14	9-Jul-15
20202		PSG ANALOG SIGNAL		
30392	Keysight (Agilent/HP) / E8257D	GENERATOR	19-Aug-14	19-Aug-15
40516				
49510	Keysight (Agilent/HP) / N9030A	PXA Signal Analyzer	12-Nov-14	12-Nov-15
54007		PRESET TORQUE		
04207	Pasternack / PE5011-1	WRENCH, 8 IN/LBS	04 Feb 2015	04 Feb 2016
27220			Cal Not	Cal Not
37236	JFW / 50CB-015	Control Box, GPIB	Required	Required

Software Used to Perform Testing:

EMIsoft Vasona, version 6.024

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Appendix D: Test Procedures

Measurements were made in accordance with

- KDB Publication No. 789033 D01 General UNII Test Procedures Old Rules v01r04
- Measurement method of spurious emission tolerance to the International Telecommunication Union (ITU) Recommendation SM329.
- ANSI C63.4 2009
- ANSI C63.10 2009

Test procedures are summarized below

FCC Test Procedures 5GHz	EDCS # - 1445048

Appendix E: Test Assessment Plan

Compliance Test Plan (Excel) EDCS# 1237091 Target Power Tables EDCS# 1501962

Appendix F: Worst Case Justification

IW3702 is based upon the AIR-CAP3702P-A-K9. Test results for AIR-CAP3702P-A-K9 were reviewed. Worst case modes were selected by lowest margins. A representative sample of modulation types, bit-rates, and bandwidths were selected. The AIR-CAP3702P-A-K9 report can be found here EDCS# 1237091.

Appendix G: Scope of Accreditation

The scope of accreditation of Cisco Systems, Inc. can be found on the A2LA web page at: http://www.a2la.org/scopepdf/1178-01.pdf

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Appendix H: Duty Cycle data

Duty Cycle table and	screen captures are	shown below for	power/psd modes.
----------------------	---------------------	-----------------	------------------

Mode	Data Rate	On-time (ms)	Total Time (ms)	Duty Cycle (%)	Correction Factor (dB)
nonHT20 single	6Mbps	1.4365	1.4475	99.2	0.03
nonHT20 BF Quad	6Mbps	1.4362	1.4472	99.2	0.03
HT20 Single	m0.	1.3444	1.3554	99.2	0.03
HT20 BF Dual	m0.	1.3444	1.3554	99.2	0.03
HT20 STBC Triple	m0.	1.3444	1.3554	99.2	0.03
nonHT40 Single	6Mbps	1.4475	1.4472	99.3	0.03
HT40 Quad	m8.	356.3	367.1	97	0.13
HT40 BF Quad	m0.	668.5	679.2	98.4	0.07
HT40 STBC Quad	m0.	668.7	679.2	98.4	0.07
nonHT80 Single	6Mbps	1.437	1.447	99.3	0.03
VHT80 Quad	m0x1	332.39	348.59	95.3	0.21
VHT80 Quad BF	m0x2	192.96	208.56	92.5	0.34
VHT80 STBC Quad	m0x1	333	348.5	95.5	0.20
nonHT40 Single	6Mbps	1.4362	1.4472	99.2	0.03
HT40 Dual	m8.	357.26	367.16	97.3	0.12
HT40 Quad	m16.	261.2	271.4	96.2	0.17
HT40 BF Dual	m8.	357.19	367.19	97.3	0.12
HT40 BF Quad	m0.	669	679.3	98.5	0.07
HT40 BF Quad	m8.	357.18	367.08	97.3	0.12
HT40 BF Quad	m16.	261.21	271.11	96.3	0.16
HT40 STBC Dual	m0.	669.2	679.3	98.5	0.07
nonHT20 Single	6Mbps	1.4376	1.4476	99.3	0.03
nonHT20 BF Quad	6Mbps	1.437	1.448	99.2	0.03
HT20 Triple	m8.	696.33	707.13	98.4	0.07
HT20 BF Triple	m8.	697.2	707.2	98.6	0.06
HT20 STBC Triple	m0.	1.3454	1.3554	99.3	0.03

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Duty Cycle Data

Non HT20, 6Mbps



Non HT20 Beam Forming, 6Mbps



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HT20, M0



HT20 Beam Forming, M0

🔆 Agilent				Marker
Ref 31.76 dBm #Peak	#Atten 40 dB		Mkr3 1.827 ms 7.20 dBm	Select Marker 1 2 <u>3</u> 4
Log 10 dB/ Dffst		la de ser la serie de la serie de la del Marine de la serie de la del de la del de la del de la serie de la del Marine de la serie de la serie de la del		Normal
1.76 dB				Delta
#PAvg				Delta Pair (Tracking Ref) Ref <u>∆</u>
Center 5.180 000 G Res BW 8 MHz	HZ VBW 8 M	1Hz Swe	Span 0 Hz ep 2 ms (8000 pts) Amplitude	Span Pair Span <u>Center</u>
1 (1) 2 (1) 3 (1)	Time Time Time Time	л пхіз 471.6 µs 1.816 ms 1.827 ms	-33.84 dBm -10.80 dBm 7.20 dBm	Off
				More 1 of 2
Copyright 2000-20	004 Agilent Techno	logies		

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HT20 STBC, M0



Non HT40, 6 Mbps



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HT40 Beam Forming, M0



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HT40, M8



HT40 STBC, M0

Non HT80, 6Mbps



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VHT80 Beam Forming, M0.2



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Non HT40, 6Mbps



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HT40, M16



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HT40 Beam Forming, M0



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HT40 Beam Forming, M8

HT40 Beam Forming, M16



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HT40 STBC, M0



Non HT20, 6Mbps

🔆 Ag	jilent										Ma	rker
Ref 21 #Peak	I.76 dB	m +	Atten	30 dB		الدرامية ال	and the public of the	Mi Milandan Ju	kr3 1 2.9 19-11-11	.668 ms 18 dBm <mark>antumken</mark>	Selec 1 2	t Marker <u>3</u> 4
Log 10 dB/ Offst	<u>Ariana</u> Ariana		<mark>d İsleylü Maserda</mark> r	<mark>de (Å ji die give</mark> t	n an	i di piccon di si di Si di piccon di si di Si di si d	i <u>ksi p</u> ik <u>k</u> pisa	ing the states	n, Öldul (, M _h ritan In		Normal
1.76 dB		۵ 							•			Delta
#PAvg											D (Trai Ref	elta Pair cking Ref) <u>∆</u>
Start Res B	5.240 0 N 8 MH:	100 GHz z	- -	ŧ۷	BW 8 M	1Hz	Sн	Stop 5 eep 2	5.240 0 ms (81	00 GHz 92 pts)	S Span	pan Pair <u>Center</u>
1 2 3	er i	race (1) (1) (1)	Type Time Time Time		2 1 1	. Ηχίς 20.4 μς .658 ms .668 ms			-34.05 -33.64 2.98	ude dBm dBm dBm		Off
Conur	iaht 20	100-20	04 Qail	lont T	ochnol	adioa						More 1 of 2

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🔆 Agilent Marker Mkr2 1.684 ms Select Marker Ref 21.76 dBm #Peak Log #Atten 30 dB -26.47 dBm 2 3 4 10 dB/ Offst 1.76 dB Normal Delta Delta Pair (Tracking Ref) Ref A #PAvg ≙ Start 5.240 000 GHz Res BW 8 MHz Stop 5.240 000 GHz Span Pair **#VBW** 8 MHz Sweep 2 ms (8192 pts) Span <u>Center</u> X Axis 247 µs 1.684 ms 1.695 ms Trace (1) (1) (1) (1) Marker Type Time Time Time Amplitude -32.07 dBm -26.47 dBm -32.10 dBm Off More 1 of 2 Copyright 2000-2004 Agilent Technologies

HT20. M8

🔆 Agilent				Marker
Ref 21.76 dBm	#Atten 30 dB		Hkr2 731.8 بs –19.61 dBm	Select Marker 1 <u>2</u> 3 4
10 dB/ 0ffst				Normal
1.76 dB				Delta
#PAvg			, , ,	Delta Pair (Tracking Ref) Ref <u>∆</u>
Start 5.240 000 GHz Res BW 8 MHz Marker Trace	2 #VBW 8 Type	S MHz Swee (Axis	top 5.240 000 GHz p 1 ms (8192 pts) Amplitude	Span Pair Span <u>Center</u>
1 (1) 2 (1) 3 (1)	Time Time Time	35.47 µs 731.8 µs 742.6 µs	-11.44 dBm -19.61 dBm -8.81 dBm	Off
				More 1 of 2
Copyright 2000-20	04 Agilent Techno	logies		

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Non HT20 Beam Forming, 6Mbps

HT20 Beam Forming, M8



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HT20 STBC, M0

🔆 Agilent				Marker
Ref 21.76 dBm #Peak	#Atten 30 dB		Mkr3 1.399 ms -1.92 dBm	Select Marker 1 2 <u>3</u> 4
LOG 10 dB/ Offst		la ja ja kain kain kain kain kain kain kain kai		Normal
1.76 dB				Delta
#PAvg				Delta Pair (Tracking Ref) Ref <u>∆</u>
Start 5.240 000 GH Res BW 8 MHz	Iz #VBW	8 MHz Swee	Stop 5.240 000 GHz p 1.42 ms (8192 pts)	Span Pair Span <u>Center</u>
1 (1) 2 (1) 3 (1)	Time Time Time	43.6 µs 1.389 ms 1.399 ms	-43.83 dBm -25.95 dBm -1.92 dBm	- Off
				More 1 of 2
Copyright 2000-2	004 Agilent Tec	hnologies		

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