4.5. Radiated Emissions Measurement

4.5.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for peak

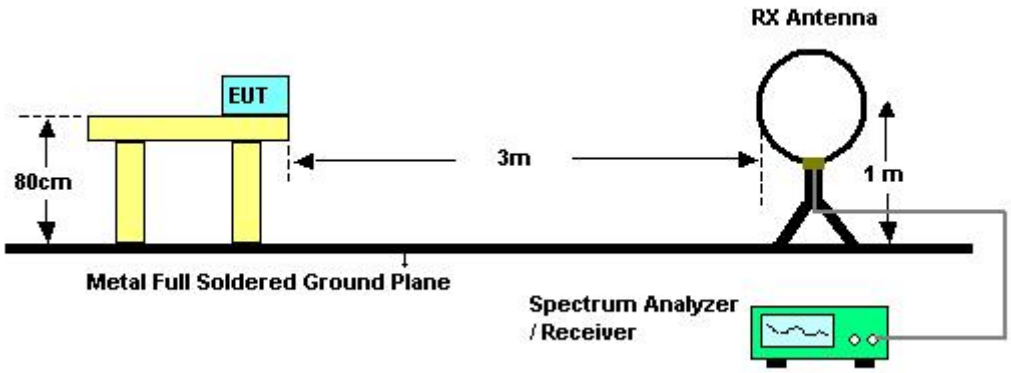
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.5.3. Test Procedures

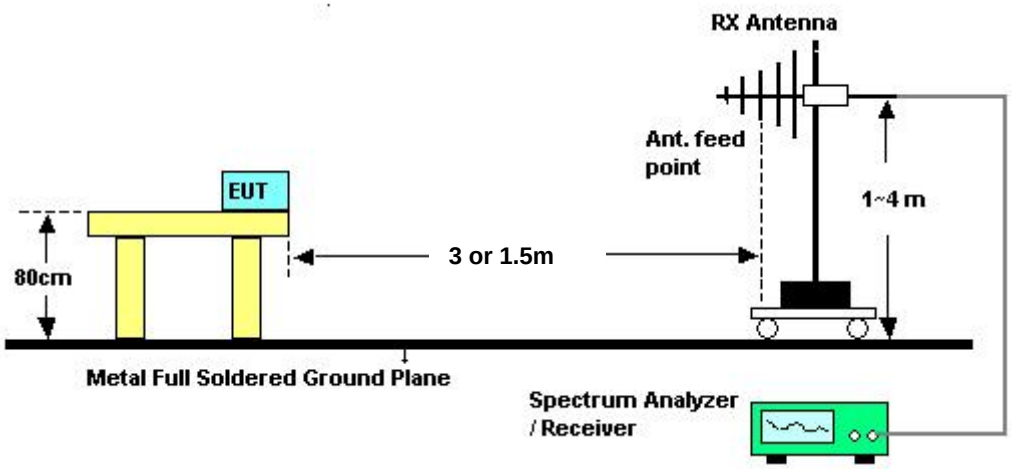
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.5.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	Normal Link
Test Date	Aug. 13, 2010		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

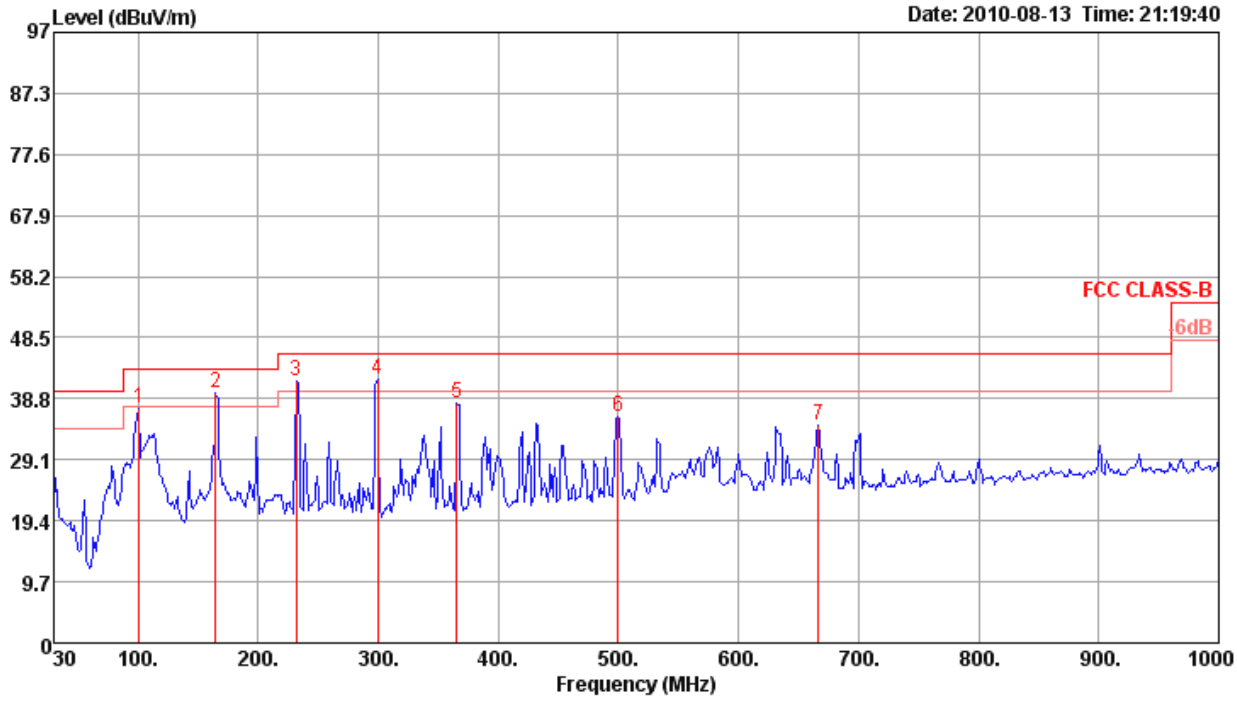
Limit line = specific limits (dBuV) + distance extrapolation factor.

4.5.8. Results of Radiated Emissions (30MHz~1GHz)

<For Mode 2 (Ant. 2)>

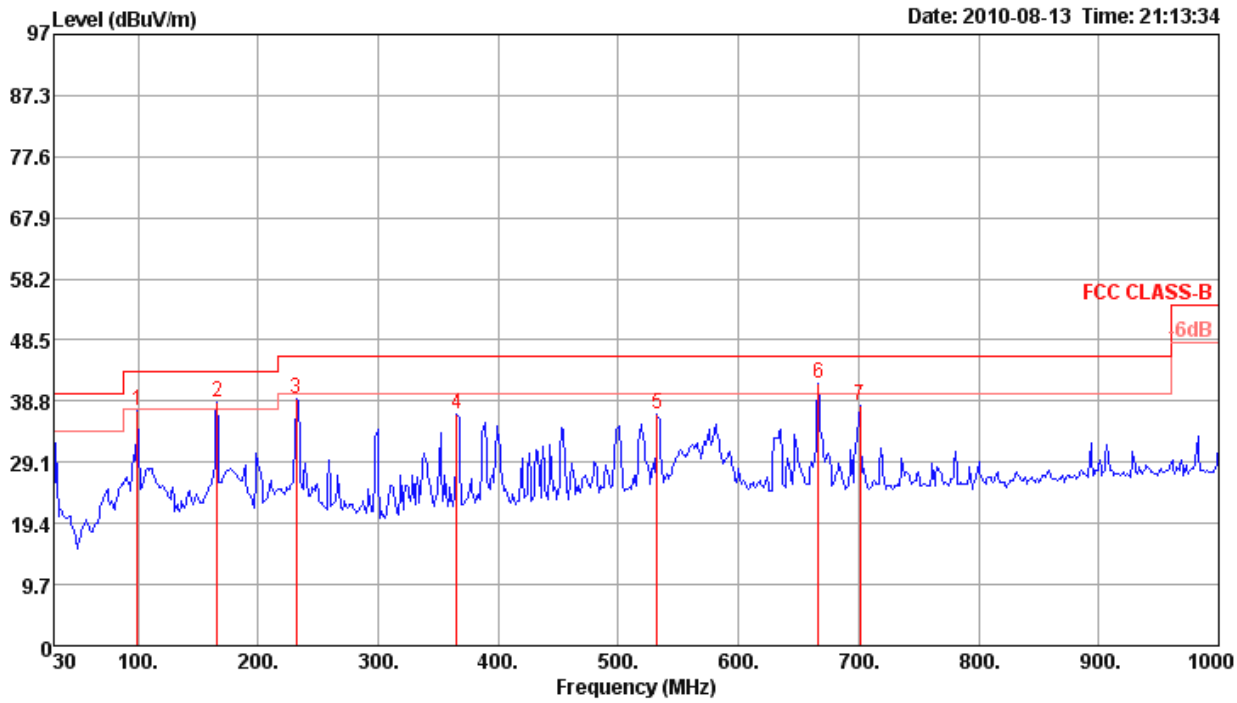
Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	TX Mode / Mode 2 (Ant. 2)

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	100.81	37.22	43.50	-6.28	52.56	1.20	27.60	11.06	0	100	Peak	HORIZONTAL
2	164.83	39.66	43.50	-3.84	53.02	1.52	27.27	12.39	0	100	Peak	HORIZONTAL
3	231.76	41.49	46.00	-4.51	55.29	1.83	27.04	11.41	0	100	Peak	HORIZONTAL
4	299.66	41.81	46.00	-4.19	53.25	2.10	26.90	13.36	0	100	Peak	HORIZONTAL
5	365.62	38.18	46.00	-7.82	48.17	2.23	27.36	15.14	0	100	Peak	HORIZONTAL
6	499.48	36.04	46.00	-9.96	43.82	2.70	28.09	17.61	0	100	Peak	HORIZONTAL
7	666.32	34.61	46.00	-11.39	40.23	3.43	28.03	18.98	0	100	Peak	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	99.84	37.19	43.50	-6.31	52.60	1.20	27.60	10.99	0	400	Peak	VERTICAL
2	165.80	38.65	43.50	-4.85	51.92	1.53	27.27	12.47	0	400	Peak	VERTICAL
3	231.76	39.21	46.00	-6.79	53.01	1.83	27.04	11.41	0	400	Peak	VERTICAL
4	365.62	36.65	46.00	-9.35	46.64	2.23	27.36	15.14	0	400	Peak	VERTICAL
5	532.46	36.64	46.00	-9.36	43.98	2.76	28.10	18.00	0	400	Peak	VERTICAL
6	666.32	41.60	46.00	-4.40	47.22	3.43	28.03	18.98	0	400	Peak	VERTICAL
7	701.24	38.19	46.00	-7.81	43.78	3.30	27.99	19.10	0	400	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

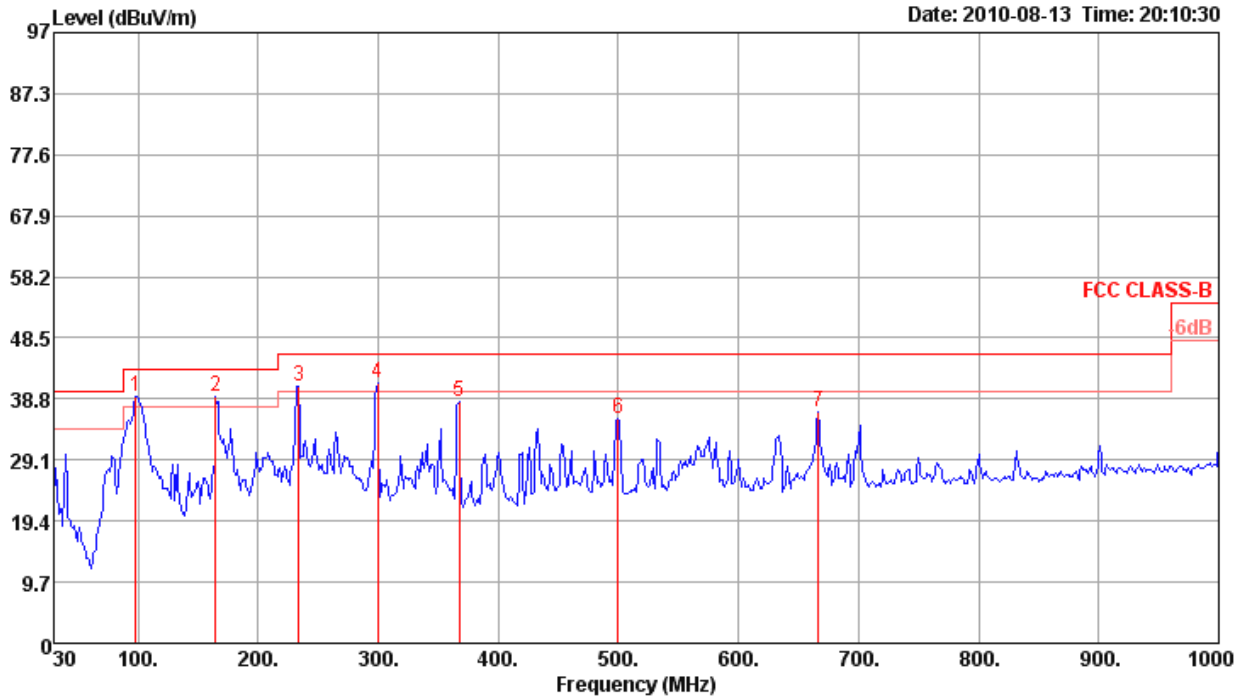
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 3 (Ant. 3)>

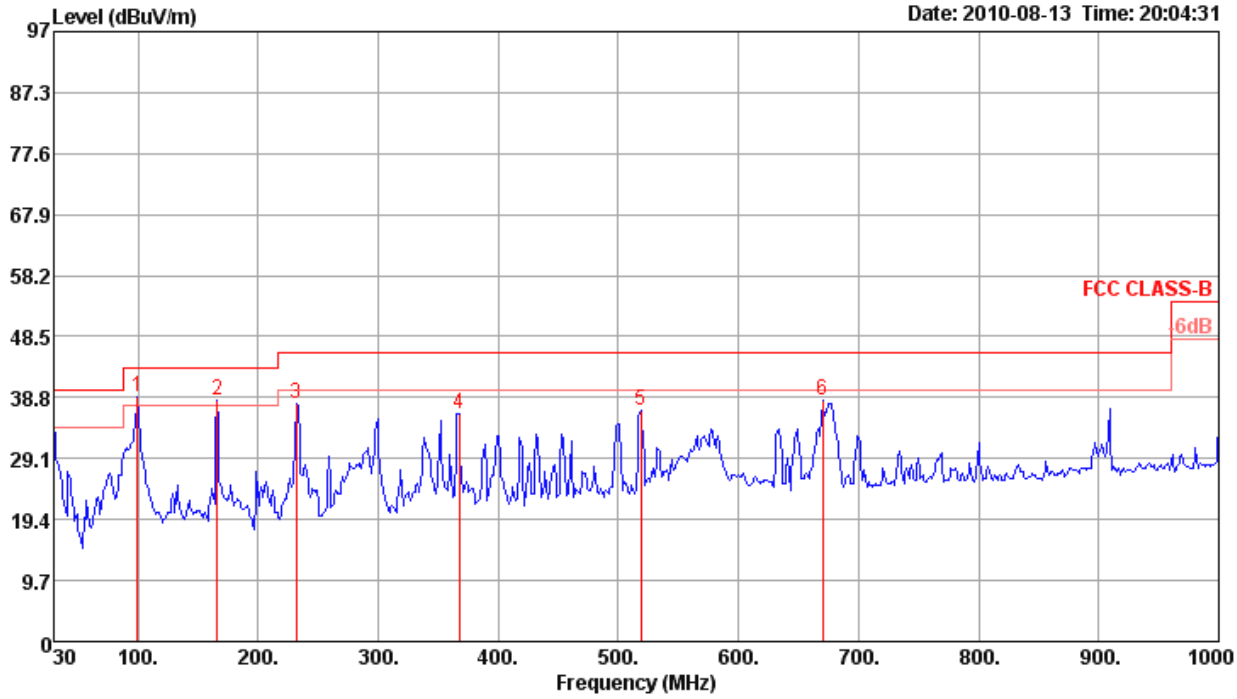
Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	TX Mode / Mode 3 (Ant. 3)

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	97.90	39.22	43.50	-4.28	55.08	1.16	27.61	10.59	0	100	Peak	HORIZONTAL
2	164.83	39.26	43.50	-4.24	52.62	1.52	27.27	12.39	0	100	Peak	HORIZONTAL
3	233.70	40.83	46.00	-5.17	54.48	1.83	27.03	11.55	0	100	Peak	HORIZONTAL
4	299.66	41.28	46.00	-4.72	52.72	2.10	26.90	13.36	0	100	Peak	HORIZONTAL
5	367.56	38.34	46.00	-7.66	48.29	2.24	27.38	15.19	0	100	Peak	HORIZONTAL
6	499.48	35.72	46.00	-10.28	43.50	2.70	28.09	17.61	0	100	Peak	HORIZONTAL
7	666.32	36.69	46.00	-9.31	42.31	3.43	28.03	18.98	0	100	Peak	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	99.84	38.99	43.50	-4.51	54.40	1.20	27.60	10.99	0	400	Peak	VERTICAL
2	165.80	38.34	43.50	-5.16	51.61	1.53	27.27	12.47	0	400	Peak	VERTICAL
3	231.76	37.76	46.00	-8.24	51.56	1.83	27.04	11.41	0	400	Peak	VERTICAL
4	367.56	36.17	46.00	-9.83	46.12	2.24	27.38	15.19	0	400	Peak	VERTICAL
5	518.88	36.71	46.00	-9.29	44.23	2.74	28.10	17.84	0	400	Peak	VERTICAL
6	670.20	38.44	46.00	-7.56	44.06	3.42	28.03	18.99	0	400	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

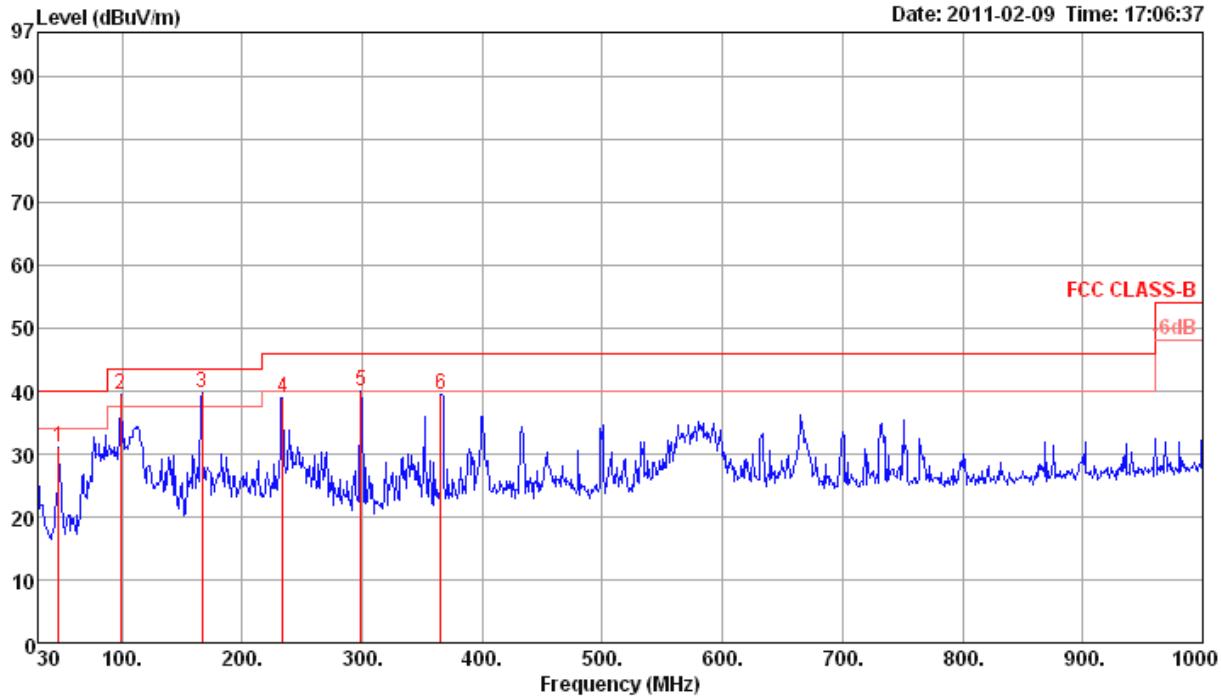
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 8 (Ant. 8)>

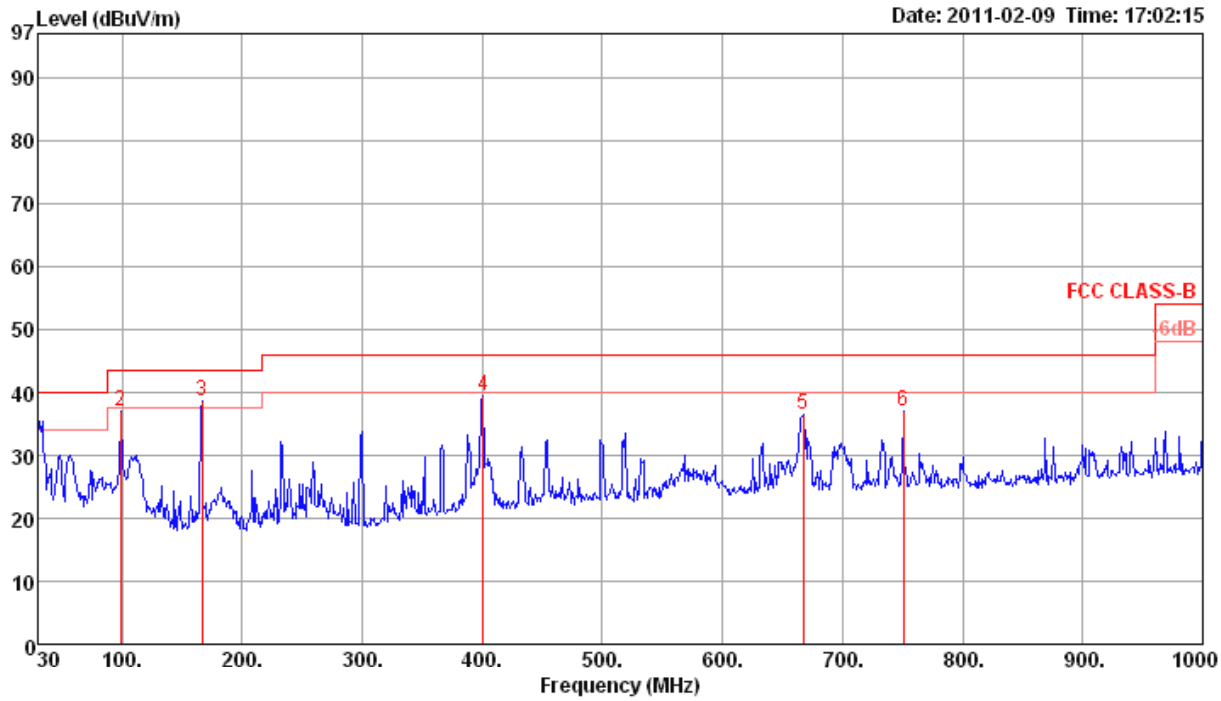
Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	TX Mode / Mode 8 (Ant. 8)

Horizontal



		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1		47.46	31.13	40.00	-8.87	48.81	0.70	27.80	9.42	0	100	Peak	HORIZONTAL
2	!	98.87	39.33	43.50	-4.17	54.97	1.18	27.61	10.79	0	100	Peak	HORIZONTAL
3	p	166.77	39.68	43.50	-3.82	52.88	1.53	27.27	12.54	0	100	Peak	HORIZONTAL
4		233.70	39.02	46.00	-6.98	52.67	1.83	27.03	11.55	0	100	Peak	HORIZONTAL
5	!	298.69	40.12	46.00	-5.88	51.57	2.10	26.90	13.35	0	100	Peak	HORIZONTAL
6		365.62	39.58	46.00	-6.42	49.57	2.23	27.36	15.14	0	100	Peak	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 p	30.00	36.91	40.00	-3.09	45.45	0.50	27.80	18.76	0	400	Peak	VERTICAL
2	98.87	37.12	43.50	-6.38	52.76	1.18	27.61	10.79	0	400	Peak	VERTICAL
3 !	166.77	38.52	43.50	-4.98	51.72	1.53	27.27	12.54	0	400	Peak	VERTICAL
4	400.54	39.40	46.00	-6.60	48.62	2.31	27.61	16.08	0	400	Peak	VERTICAL
5	667.29	36.45	46.00	-9.55	42.07	3.43	28.03	18.98	0	400	Peak	VERTICAL
6	750.71	36.89	46.00	-9.11	41.76	3.50	27.80	19.43	0	400	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.5.9. Results for Radiated Emissions (1GHz~10th Harmonic)

<For Mode 1 (Ant. 1)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 149 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11490.17	70.63	80.00	-9.37	62.12	4.76	34.75	38.50	287	100	Peak	HORIZONTAL
2	11490.50	56.67	60.00	-3.33	48.16	4.76	34.75	38.50	287	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.52	56.24	60.00	-3.76	47.73	4.76	34.75	38.50	276	100	Average	VERTICAL
2	11489.93	70.36	80.00	-9.64	61.85	4.76	34.75	38.50	276	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 157 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11569.64	54.64	60.00	-5.36	46.07	4.86	34.80	38.51	306	109	Average	HORIZONTAL
2	11569.87	68.32	80.00	-11.68	59.72	4.91	34.82	38.51	306	109	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11569.64	54.40	60.00	-5.60	45.83	4.86	34.80	38.51	305	100	Average	VERTICAL
2	11569.93	71.41	80.00	-8.59	62.81	4.91	34.82	38.51	305	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 165 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11650.24	66.28	80.00	-13.72	57.62	5.03	34.90	38.53	305	106	Peak	HORIZONTAL
2	11650.44	52.16	60.00	-7.84	43.50	5.03	34.90	38.53	305	106	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11649.92	69.45	80.00	-10.55	60.79	5.03	34.90	38.53	304	102	Peak	VERTICAL
2	11650.46	53.48	60.00	-6.52	44.82	5.03	34.90	38.53	304	102	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 151 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11509.56	50.97	60.00	-9.03	42.44	4.78	34.75	38.50	277	100	Average	HORIZONTAL
2	11509.75	65.47	80.00	-14.53	56.94	4.78	34.75	38.50	277	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11509.66	50.36	60.00	-9.64	41.83	4.78	34.75	38.50	276	100	Average	VERTICAL
2	11509.83	65.13	80.00	-14.87	56.60	4.78	34.75	38.50	276	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 159 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11589.60	48.88	60.00	-11.12	40.27	4.91	34.82	38.52	288	106	Average	HORIZONTAL
2	11590.24	63.06	80.00	-16.94	54.45	4.91	34.82	38.52	288	106	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11589.97	67.76	80.00	-12.24	59.15	4.91	34.82	38.52	304	105	Peak	VERTICAL
2	11590.50	50.36	60.00	-9.64	41.75	4.91	34.82	38.52	304	105	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 149 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.50	51.02	60.00	-8.98	42.51	4.76	34.75	38.50	288	100	Average	HORIZONTAL
2	11490.36	64.93	80.00	-15.07	56.42	4.76	34.75	38.50	288	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.50	58.86	60.00	-1.14	50.35	4.76	34.75	38.50	275	108	Average	VERTICAL
2	11489.54	72.60	80.00	-7.40	64.09	4.76	34.75	38.50	275	108	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 157 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11569.50	47.79	60.00	-12.21	39.22	4.86	34.80	38.51	303	108	Average	HORIZONTAL
2	11569.61	63.26	80.00	-16.74	54.69	4.86	34.80	38.51	303	108	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11569.53	49.03	60.00	-10.97	40.46	4.86	34.80	38.51	304	105	Average	VERTICAL
2	11570.35	63.42	80.00	-16.58	54.82	4.91	34.82	38.51	304	105	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 165 / J2+J4, Mode 1 (Ant. 1)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11649.50	50.05	60.00	-9.95	41.39	5.03	34.90	38.53	287	100	Average	HORIZONTAL
2	11649.55	63.79	80.00	-16.21	55.13	5.03	34.90	38.53	287	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11649.50	47.29	60.00	-12.71	38.63	5.03	34.90	38.53	274	116	Average	VERTICAL
2	11649.51	60.82	80.00	-19.18	52.16	5.03	34.90	38.53	274	116	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 2 (Ant. 2)>:

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 149 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11486.30	68.98	80.00	-11.02	60.47	4.76	34.75	38.50	289	100	Peak	HORIZONTAL
2	11486.50	53.91	60.00	-6.09	45.40	4.76	34.75	38.50	289	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.10	53.08	60.00	-6.92	44.57	4.76	34.75	38.50	276	100	Average	VERTICAL
2	11489.90	69.20	80.00	-10.80	60.69	4.76	34.75	38.50	276	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 157 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11568.60	49.16	60.00	-10.84	40.59	4.86	34.80	38.51	296	110	Average	HORIZONTAL
2	11570.10	65.00	80.00	-15.00	56.40	4.91	34.82	38.51	296	110	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11568.60	50.32	60.00	-9.68	41.75	4.86	34.80	38.51	273	100	Average	VERTICAL
2	11569.90	67.12	80.00	-12.88	58.52	4.91	34.82	38.51	273	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 165 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11646.80	45.05	60.00	-14.95	36.39	5.03	34.90	38.53	287	102	Average	HORIZONTAL
2	11648.30	58.29	80.00	-21.71	49.63	5.03	34.90	38.53	287	102	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11646.30	61.15	80.00	-18.85	52.49	5.03	34.90	38.53	298	100	Peak	VERTICAL
2	11649.50	46.29	60.00	-13.71	37.63	5.03	34.90	38.53	298	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 151 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11497.40	50.23	60.00	-9.77	41.70	4.78	34.75	38.50	291	100	Average	HORIZONTAL
2	11506.40	65.86	80.00	-14.14	57.33	4.78	34.75	38.50	291	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11499.20	49.27	60.00	-10.73	40.74	4.78	34.75	38.50	276	100	Average	VERTICAL
2	11510.20	63.98	80.00	-16.02	55.45	4.78	34.75	38.50	276	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 159 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11588.40	44.56	60.00	-15.44	35.95	4.91	34.82	38.52	299	100	Average	HORIZONTAL
2	11590.00	59.72	80.00	-20.28	51.11	4.91	34.82	38.52	299	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11590.00	61.51	80.00	-18.49	52.90	4.91	34.82	38.52	296	100	Peak	VERTICAL
2	11591.00	45.14	60.00	-14.86	36.53	4.91	34.82	38.52	296	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 149 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11486.90	57.29	60.00	-2.71	48.78	4.76	34.75	38.50	292	104	Average	HORIZONTAL
2	11487.10	71.02	80.00	-8.98	62.51	4.76	34.75	38.50	292	104	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11487.30	55.67	60.00	-4.33	47.16	4.76	34.75	38.50	273	100	Average	VERTICAL
2	11487.60	69.16	80.00	-10.84	60.65	4.76	34.75	38.50	273	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 157 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11567.20	50.48	60.00	-9.52	41.91	4.86	34.80	38.51	292	106	Average	HORIZONTAL
2	11567.30	64.08	80.00	-15.92	55.51	4.86	34.80	38.51	292	106	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11567.90	52.32	60.00	-7.68	43.75	4.86	34.80	38.51	274	100	Average	VERTICAL
2	11568.00	65.32	80.00	-14.68	56.75	4.86	34.80	38.51	274	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 165 / J2+J4, Mode 2 (Ant. 2)
Test Date	Aug. 07, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11647.10	45.65	60.00	-14.35	36.99	5.03	34.90	38.53	292	100	Average	HORIZONTAL
2	11652.50	58.63	80.00	-21.37	49.97	5.03	34.90	38.53	292	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11644.60	59.81	80.00	-20.19	51.16	4.99	34.87	38.53	295	100	Peak	VERTICAL
2	11650.00	48.80	60.00	-11.20	40.14	5.03	34.90	38.53	295	100	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 3 (Ant. 3)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.65	43.01	74.00	-30.99	42.81	3.00	35.26	32.46	163	100	Peak	HORIZONTAL
2	4824.44	27.70	54.00	-26.30	27.50	3.00	35.26	32.46	163	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.93	41.79	74.00	-32.21	41.59	3.00	35.26	32.46	216	100	Peak	VERTICAL
2	4824.50	27.90	54.00	-26.10	27.70	3.00	35.26	32.46	216	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.77	27.53	54.00	-26.47	27.11	3.01	35.15	32.56	117	100	Average	HORIZONTAL
2	4873.96	40.79	74.00	-33.21	40.37	3.01	35.15	32.56	117	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.85	28.66	54.00	-25.34	28.24	3.01	35.15	32.56	150	100	Average	VERTICAL
2	4874.09	41.20	74.00	-32.80	40.78	3.01	35.15	32.56	150	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.79	28.36	54.00	-25.64	27.71	3.02	35.03	32.66	100	100	Average	HORIZONTAL
2	4924.20	41.87	74.00	-32.13	41.22	3.02	35.03	32.66	100	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.81	41.82	74.00	-32.18	41.17	3.02	35.03	32.66	133	100	Peak	VERTICAL
2	4924.27	28.43	54.00	-25.57	27.78	3.02	35.03	32.66	133	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4844.03	41.91	74.00	-32.09	41.61	3.01	35.20	32.49	132	100	Peak	HORIZONTAL
2	4844.46	27.68	54.00	-26.32	27.38	3.01	35.20	32.49	132	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4843.72	40.97	74.00	-33.03	40.67	3.01	35.20	32.49	244	100	Peak	VERTICAL
2	4844.16	27.66	54.00	-26.34	27.36	3.01	35.20	32.49	244	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.50	27.44	54.00	-26.56	27.02	3.01	35.15	32.56	185	100	Average	HORIZONTAL
2	4874.02	40.67	74.00	-33.33	40.25	3.01	35.15	32.56	185	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.53	27.49	54.00	-26.51	27.07	3.01	35.15	32.56	266	100	Average	VERTICAL
2	4874.00	41.12	74.00	-32.88	40.70	3.01	35.15	32.56	266	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4904.03	41.64	74.00	-32.36	41.08	3.02	35.09	32.63	224	100	Peak	HORIZONTAL
2	4904.46	28.05	54.00	-25.95	27.49	3.02	35.09	32.63	224	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4904.00	41.02	74.00	-32.98	40.46	3.02	35.09	32.63	134	100	Peak	VERTICAL
2	4904.23	28.03	54.00	-25.97	27.47	3.02	35.09	32.63	134	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4824.00	41.47	54.00	-12.53	41.27	3.00	35.26	32.46	161	100	Average	HORIZONTAL
2	4824.03	46.50	74.00	-27.50	46.30	3.00	35.26	32.46	161	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.95	46.58	74.00	-27.42	46.38	3.00	35.26	32.46	140	113	Peak	VERTICAL
2	4823.97	40.50	54.00	-13.50	40.30	3.00	35.26	32.46	140	113	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 6 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.93	42.80	54.00	-11.20	42.38	3.01	35.15	32.56	162	100	Average	HORIZONTAL
2	4873.93	47.28	74.00	-26.72	46.86	3.01	35.15	32.56	162	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.92	47.72	74.00	-26.28	47.30	3.01	35.15	32.56	254	100	Peak	VERTICAL
2	4873.94	43.21	54.00	-10.79	42.79	3.01	35.15	32.56	254	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 11 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.92	45.22	74.00	-28.78	44.57	3.02	35.03	32.66	215	100	Peak	HORIZONTAL
2	4923.94	38.19	54.00	-15.81	37.54	3.02	35.03	32.66	215	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.95	46.19	74.00	-27.81	45.54	3.02	35.03	32.66	227	100	Peak	VERTICAL
2	4923.99	39.81	54.00	-14.19	39.16	3.02	35.03	32.66	227	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.95	42.06	74.00	-31.94	41.86	3.00	35.26	32.46	251	100	Peak	HORIZONTAL
2	4824.50	27.52	54.00	-26.48	27.32	3.00	35.26	32.46	251	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.70	41.68	74.00	-32.32	41.48	3.00	35.26	32.46	217	100	Peak	VERTICAL
2	4824.37	27.74	54.00	-26.26	27.54	3.00	35.26	32.46	217	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 6 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.56	27.66	54.00	-26.34	27.24	3.01	35.15	32.56	214	100	Average	HORIZONTAL
2	4874.36	41.50	74.00	-32.50	41.08	3.01	35.15	32.56	214	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.51	27.53	54.00	-26.47	27.11	3.01	35.15	32.56	123	100	Average	VERTICAL
2	4873.79	41.02	74.00	-32.98	40.60	3.01	35.15	32.56	123	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 11 / J2+J3+J4, Mode 3 (Ant. 3)
Test Date	Aug. 06, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.87	28.34	54.00	-25.66	27.69	3.02	35.03	32.66	270	100	Average	HORIZONTAL
2	4923.95	41.96	74.00	-32.04	41.31	3.02	35.03	32.66	270	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.97	28.84	54.00	-25.16	28.19	3.02	35.03	32.66	282	100	Average	VERTICAL
2	4924.17	42.04	74.00	-31.96	41.39	3.02	35.03	32.66	282	100	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 4 (Ant. 4)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4824.08	43.89	74.00	-30.11	43.69	3.00	35.26	32.46	158	100	Peak	HORIZONTAL
2	4824.29	29.89	54.00	-24.11	29.69	3.00	35.26	32.46	158	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2412.24	34.46	74.00	-39.54	39.62	2.05	35.05	27.84	185	100	Peak	VERTICAL
2	2412.50	25.47	54.00	-28.53	30.63	2.05	35.05	27.84	185	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4873.98	35.43	54.00	-18.57	32.82	4.33	35.20	33.48	339	100	Average	HORIZONTAL
2 p	4874.02	51.40	74.00	-22.60	48.79	4.33	35.20	33.48	339	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4874.44	38.10	54.00	-15.90	35.49	4.33	35.20	33.48	2	100	Average	VERTICAL
2 p	4874.72	51.30	74.00	-22.70	48.69	4.33	35.20	33.48	2	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4921.40	42.89	74.00	-31.11	42.24	3.02	35.03	32.66	159	100	Peak	HORIZONTAL
2	4927.30	30.27	54.00	-23.73	29.62	3.02	35.03	32.66	159	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4924.01	46.95	74.00	-27.05	46.30	3.02	35.03	32.66	186	100	Peak	VERTICAL
2	4924.09	31.18	54.00	-22.82	30.53	3.02	35.03	32.66	186	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.74	28.28	54.00	-25.72	28.08	3.00	35.26	32.46	142	100	Average	HORIZONTAL
2	4823.86	42.59	74.00	-31.41	42.39	3.00	35.26	32.46	142	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4824.32	41.02	74.00	-32.98	40.82	3.00	35.26	32.46	108	100	Peak	VERTICAL
2	4824.35	28.95	54.00	-25.05	28.75	3.00	35.26	32.46	108	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4873.98	30.81	54.00	-23.19	28.20	4.33	35.20	33.48	345	100	Average	HORIZONTAL
2 p	4873.99	44.23	74.00	-29.77	41.62	4.33	35.20	33.48	345	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 p	4873.99	44.05	74.00	-29.95	41.44	4.33	35.20	33.48	102	100	Peak	VERTICAL
2 a	4874.01	37.03	54.00	-16.97	34.42	4.33	35.20	33.48	102	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4903.64	42.11	74.00	-31.89	41.55	3.02	35.09	32.63	185	100	Peak	HORIZONTAL
2	4904.20	28.14	54.00	-25.86	27.58	3.02	35.09	32.63	185	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4904.05	42.57	74.00	-31.43	42.01	3.02	35.09	32.63	179	100	Peak	VERTICAL
2	4904.06	28.57	54.00	-25.43	28.01	3.02	35.09	32.63	179	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 149 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11487.10	52.19	60.00	-7.81	43.45	5.24	38.78	35.28	26	100	Average	HORIZONTAL
2	11490.00	66.51	80.00	-13.49	57.77	5.24	38.78	35.28	26	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11488.70	51.62	60.00	-8.38	42.88	5.24	38.78	35.28	262	122	Average	VERTICAL
2	11489.90	68.48	80.00	-11.52	59.74	5.24	38.78	35.28	262	122	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 157 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11565.10	44.82	60.00	-15.18	36.05	5.25	38.82	35.30	77	101	Average	HORIZONTAL
2	11566.30	58.93	80.00	-21.07	50.16	5.25	38.82	35.30	77	101	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11566.50	48.26	60.00	-11.74	39.49	5.25	38.82	35.30	316	101	Average	VERTICAL
2	11571.20	63.02	80.00	-16.98	54.24	5.25	38.83	35.30	316	101	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 165 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11647.30	42.99	60.00	-17.01	34.15	5.28	38.86	35.30	72	100	Average	HORIZONTAL
2	11651.40	57.42	80.00	-22.58	48.58	5.28	38.86	35.30	72	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11644.90	43.69	60.00	-16.31	34.85	5.28	38.86	35.30	244	100	Average	VERTICAL
2	11651.20	57.28	80.00	-22.72	48.44	5.28	38.86	35.30	244	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 151 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11495.80	45.50	60.00	-14.50	36.76	5.24	38.78	35.28	95	111	Average	HORIZONTAL
2	11510.20	60.16	80.00	-19.84	51.41	5.24	38.79	35.28	95	111	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11506.40	47.65	60.00	-12.35	38.90	5.24	38.79	35.28	319	100	Average	VERTICAL
2	11511.20	62.87	80.00	-17.13	54.12	5.24	38.79	35.28	319	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 159 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11586.60	40.74	60.00	-19.26	31.95	5.26	38.83	35.30	69	100	Average	HORIZONTAL
2	11591.20	54.11	80.00	-25.89	45.32	5.26	38.83	35.30	69	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11586.80	42.39	60.00	-17.61	33.60	5.26	38.83	35.30	317	100	Average	VERTICAL
2	11590.00	57.57	80.00	-22.43	48.78	5.26	38.83	35.30	317	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 23, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.97	45.88	54.00	-8.12	45.39	2.46	33.06	35.03	187	100	Average	HORIZONTAL
2	4824.00	49.78	74.00	-24.22	49.29	2.46	33.06	35.03	187	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.96	52.00	54.00	-2.00	51.51	2.46	33.06	35.03	179	128	Average	VERTICAL
2	4824.04	53.26	74.00	-20.74	52.77	2.46	33.06	35.03	179	128	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 6 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4873.96	50.71	54.00	-3.29	48.10	4.33	35.20	33.48	345	117	Average	HORIZONTAL
2 p	4874.00	53.13	74.00	-20.87	50.52	4.33	35.20	33.48	345	117	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4873.99	53.18	54.00	-0.82	50.57	4.33	35.20	33.48	358	103	Average	VERTICAL
2 p	4874.04	55.64	74.00	-18.36	53.03	4.33	35.20	33.48	358	103	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 11 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 23, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.97	42.51	54.00	-11.49	41.79	2.47	33.26	35.01	187	100	Average	HORIZONTAL
2	4924.09	47.45	74.00	-26.55	46.73	2.47	33.26	35.01	187	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.92	50.70	74.00	-23.30	49.98	2.47	33.26	35.01	185	123	Peak	VERTICAL
2	4923.96	47.09	54.00	-6.91	46.37	2.47	33.26	35.01	185	123	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2412.41	40.00	74.00	-34.00	45.16	2.05	35.05	27.84	179	124	Peak	HORIZONTAL
2	2412.50	28.50	54.00	-25.50	33.66	2.05	35.05	27.84	179	124	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2411.50	24.20	54.00	-29.80	29.36	2.05	35.05	27.84	219	130	Average	VERTICAL
2	2411.99	36.92	74.00	-37.08	42.08	2.05	35.05	27.84	219	130	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 6 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4872.20	41.24	54.00	-12.76	38.63	4.33	35.20	33.48	2	118	Average	HORIZONTAL
2 p	4872.50	52.73	74.00	-21.27	50.12	4.33	35.20	33.48	2	118	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4872.10	44.16	54.00	-9.84	41.55	4.33	35.20	33.48	347	103	Average	VERTICAL
2 p	4872.20	56.38	74.00	-17.62	53.77	4.33	35.20	33.48	347	103	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 11 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4924.06	47.81	74.00	-26.19	47.16	3.02	35.03	32.66	190	100	Peak	HORIZONTAL
2	4924.44	34.10	54.00	-19.90	33.45	3.02	35.03	32.66	190	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.50	33.26	54.00	-20.74	32.61	3.02	35.03	32.66	158	100	Average	VERTICAL
2	4923.56	45.90	74.00	-28.10	45.25	3.02	35.03	32.66	158	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 149 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11490.36	66.69	80.00	-13.31	58.18	4.76	34.75	38.50	197	100	Peak	HORIZONTAL
2	11490.44	51.61	60.00	-8.39	43.10	4.76	34.75	38.50	197	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.50	49.97	60.00	-10.03	41.46	4.76	34.75	38.50	163	100	Average	VERTICAL
2	11489.59	63.81	80.00	-16.19	55.30	4.76	34.75	38.50	163	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 157 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11570.46	57.51	80.00	-22.49	48.91	4.91	34.82	38.51	213	102	Peak	HORIZONTAL
2	11570.50	49.28	60.00	-10.72	40.68	4.91	34.82	38.51	213	102	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11569.50	50.82	60.00	-9.18	42.25	4.86	34.80	38.51	161	100	Average	VERTICAL
2	11569.51	64.33	80.00	-15.67	55.76	4.86	34.80	38.51	161	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 165 / J2+J3+J4, Mode 4 (Ant. 4)
Test Date	Jul. 26, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11650.43	57.98	80.00	-22.02	49.32	5.03	34.90	38.53	181	115	Peak	HORIZONTAL
2	11650.50	44.86	60.00	-15.14	36.20	5.03	34.90	38.53	181	115	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11649.64	50.30	60.00	-9.70	41.64	5.03	34.90	38.53	156	101	Average	VERTICAL
2	11649.75	63.73	80.00	-16.27	55.07	5.03	34.90	38.53	156	101	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 5 (Ant. 5)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.85	41.24	74.00	-32.76	40.75	2.46	33.06	35.03	43	100	Peak	HORIZONTAL
2	4824.34	28.42	54.00	-25.58	27.93	2.46	33.06	35.03	43	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.88	41.65	74.00	-32.35	41.16	2.46	33.06	35.03	245	100	Peak	VERTICAL
2	4824.45	30.90	54.00	-23.10	30.41	2.46	33.06	35.03	245	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.53	42.44	74.00	-31.56	41.84	2.47	33.16	35.03	150	100	Peak	HORIZONTAL
2	4874.45	29.20	54.00	-24.80	28.60	2.47	33.16	35.03	150	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.77	42.51	74.00	-31.49	41.91	2.47	33.16	35.03	320	100	Peak	VERTICAL
2	4873.93	30.11	54.00	-23.89	29.51	2.47	33.16	35.03	320	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4924.21	29.53	54.00	-24.47	28.84	2.47	33.23	35.01	159	100	Average	HORIZONTAL
2	4924.23	40.27	74.00	-33.73	39.67	2.47	33.16	35.03	159	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.20	30.24	54.00	-23.76	29.52	2.47	33.26	35.01	322	100	Average	VERTICAL
2	4925.80	41.13	74.00	-32.87	40.41	2.47	33.26	35.01	322	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4844.27	28.71	54.00	-25.29	28.19	2.46	33.09	35.03	311	100	Average	HORIZONTAL
2	4844.50	41.14	74.00	-32.86	40.62	2.46	33.09	35.03	311	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4843.71	41.33	74.00	-32.67	40.81	2.46	33.09	35.03	149	100	Peak	VERTICAL
2	4843.93	30.81	54.00	-23.19	30.29	2.46	33.09	35.03	149	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.07	28.90	54.00	-25.10	28.30	2.47	33.16	35.03	306	100	Average	HORIZONTAL
2	4874.11	40.97	74.00	-33.03	40.37	2.47	33.16	35.03	306	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.19	30.05	54.00	-23.95	29.45	2.47	33.16	35.03	185	100	Average	VERTICAL
2	4874.31	40.93	74.00	-33.07	40.33	2.47	33.16	35.03	185	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4903.59	29.06	54.00	-24.94	28.42	2.47	33.19	35.02	123	100	Average	HORIZONTAL
2	4904.09	41.02	74.00	-32.98	40.38	2.47	33.19	35.02	123	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4903.89	41.78	74.00	-32.22	41.14	2.47	33.19	35.02	305	100	Peak	VERTICAL
2	4904.05	31.20	54.00	-22.80	30.56	2.47	33.19	35.02	305	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.96	32.40	54.00	-21.60	31.91	2.46	33.06	35.03	76	100	Average	HORIZONTAL
2	4823.98	42.32	74.00	-31.68	41.83	2.46	33.06	35.03	76	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.98	43.82	54.00	-10.18	43.33	2.46	33.06	35.03	264	110	Average	VERTICAL
2	4824.07	47.55	74.00	-26.45	47.06	2.46	33.06	35.03	264	110	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 6 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.97	44.55	74.00	-29.45	43.95	2.47	33.16	35.03	25	100	Peak	HORIZONTAL
2	4874.06	37.05	54.00	-16.95	36.45	2.47	33.16	35.03	25	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.00	43.78	54.00	-10.22	43.18	2.47	33.16	35.03	19	125	Average	VERTICAL
2	4874.03	48.15	74.00	-25.85	47.55	2.47	33.16	35.03	19	125	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 11 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.93	42.73	74.00	-31.27	42.01	2.47	33.26	35.01	346	100	Peak	HORIZONTAL
2	4924.00	31.06	54.00	-22.94	30.34	2.47	33.26	35.01	346	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.97	41.39	54.00	-12.61	40.67	2.47	33.26	35.01	6	100	Average	VERTICAL
2	4924.13	46.71	74.00	-27.29	45.99	2.47	33.26	35.01	6	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.52	28.51	54.00	-25.49	28.02	2.46	33.06	35.03	224	100	Average	HORIZONTAL
2	4824.34	41.46	74.00	-32.54	40.97	2.46	33.06	35.03	224	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.53	31.18	54.00	-22.82	30.69	2.46	33.06	35.03	32	100	Average	VERTICAL
2	4824.48	41.53	74.00	-32.47	41.04	2.46	33.06	35.03	32	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 6 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.95	41.95	74.00	-32.05	41.35	2.47	33.16	35.03	152	100	Peak	HORIZONTAL
2	4874.26	29.20	54.00	-24.80	28.60	2.47	33.16	35.03	152	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.53	31.98	54.00	-22.02	31.38	2.47	33.16	35.03	305	100	Average	VERTICAL
2	4873.65	44.40	74.00	-29.60	43.80	2.47	33.16	35.03	305	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 11 / J2+J3+J4, Mode 5 (Ant. 5)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.79	29.68	54.00	-24.32	28.96	2.47	33.26	35.01	311	100	Average	HORIZONTAL
2	4923.97	42.86	74.00	-31.14	42.14	2.47	33.26	35.01	311	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.73	30.01	54.00	-23.99	29.29	2.47	33.26	35.01	212	100	Average	VERTICAL
2	4924.28	42.14	74.00	-31.86	41.42	2.47	33.26	35.01	212	100	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 6 (Ant. 6)>:

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 149 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11488.80	40.65	60.00	-19.35	31.91	5.24	38.78	35.28	170	100	Average	HORIZONTAL
2	11491.30	53.58	80.00	-26.42	44.84	5.24	38.78	35.28	170	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11486.60	50.86	80.00	-29.14	42.12	5.24	38.78	35.28	193	111	Peak	VERTICAL
2	11489.00	42.41	60.00	-17.59	33.67	5.24	38.78	35.28	193	111	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 157 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.30	41.17	60.00	-18.83	32.39	5.25	38.83	35.30	53	100	Average	HORIZONTAL
2	11571.80	53.66	80.00	-26.34	44.88	5.25	38.83	35.30	53	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.91	40.04	60.00	-19.96	31.26	5.25	38.83	35.30	360	100	Average	VERTICAL
2	11571.39	51.07	80.00	-28.93	42.29	5.25	38.83	35.30	360	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 165 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11650.00	53.49	80.00	-26.51	44.65	5.28	38.86	35.30	224	100	Peak	HORIZONTAL
2	11650.50	44.95	60.00	-15.05	36.11	5.28	38.86	35.30	224	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.10	45.61	60.00	-14.39	36.77	5.28	38.86	35.30	62	105	Average	VERTICAL
2	11650.10	61.55	80.00	-18.45	52.71	5.28	38.86	35.30	62	105	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 151 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11509.98	42.24	60.00	-17.76	33.49	5.24	38.79	35.28	207	100	Average	HORIZONTAL
2	11510.00	59.11	80.00	-20.89	50.36	5.24	38.79	35.28	207	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11509.96	44.19	60.00	-15.81	35.44	5.24	38.79	35.28	6	100	Average	VERTICAL
2	11509.96	60.39	80.00	-19.61	51.64	5.24	38.79	35.28	6	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 159 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11589.97	59.36	80.00	-20.64	50.57	5.26	38.83	35.30	210	101	Peak	HORIZONTAL
2	11590.02	40.99	60.00	-19.01	32.20	5.26	38.83	35.30	210	101	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11589.99	40.34	60.00	-19.66	31.55	5.26	38.83	35.30	54	152	Average	VERTICAL
2	11590.00	56.14	80.00	-23.86	47.35	5.26	38.83	35.30	54	152	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 149 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11486.42	57.97	80.00	-22.03	49.23	5.24	38.78	35.28	235	112	Peak	HORIZONTAL
2	11490.32	45.27	60.00	-14.73	36.53	5.24	38.78	35.28	235	112	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11488.28	60.74	80.00	-19.26	52.00	5.24	38.78	35.28	203	106	Peak	VERTICAL
2	11488.48	46.15	60.00	-13.85	37.41	5.24	38.78	35.28	203	106	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 157 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11568.55	57.08	80.00	-22.92	48.30	5.25	38.83	35.30	250	100	Peak	HORIZONTAL
2	11569.12	46.11	60.00	-13.89	37.33	5.25	38.83	35.30	250	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11567.50	54.52	80.00	-25.48	45.74	5.25	38.83	35.30	223	100	Peak	VERTICAL
2	11569.00	43.22	60.00	-16.78	34.44	5.25	38.83	35.30	223	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 165 / J2+J3+J4, Mode 6 (Ant. 6)
Test Date	Aug. 12, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11648.90	63.59	80.00	-16.41	54.75	5.28	38.86	35.30	171	110	Peak	HORIZONTAL
2	11649.00	50.10	60.00	-9.90	41.26	5.28	38.86	35.30	171	110	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11650.10	61.50	80.00	-18.50	52.66	5.28	38.86	35.30	334	100	Peak	VERTICAL
2	11654.20	49.57	60.00	-10.43	40.73	5.28	38.86	35.30	334	100	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 7 (Ant. 7)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.57	41.73	74.00	-32.27	41.53	3.00	35.26	32.46	152	100	Peak	HORIZONTAL
2	4823.81	28.13	54.00	-25.87	27.93	3.00	35.26	32.46	152	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.83	42.82	74.00	-31.18	42.62	3.00	35.26	32.46	0	107	Peak	VERTICAL
2	4824.10	29.08	54.00	-24.92	28.88	3.00	35.26	32.46	0	107	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.83	30.23	54.00	-23.77	29.81	3.01	35.15	32.56	322	100	Average	HORIZONTAL
2	4874.09	44.38	74.00	-29.62	43.96	3.01	35.15	32.56	322	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.51	35.28	54.00	-18.72	34.86	3.01	35.15	32.56	326	100	Average	VERTICAL
2	4873.98	51.19	74.00	-22.81	50.77	3.01	35.15	32.56	326	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4924.14	28.93	54.00	-25.07	28.28	3.02	35.03	32.66	136	100	Average	HORIZONTAL
2	4924.29	43.04	74.00	-30.96	42.39	3.02	35.03	32.66	136	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4924.03	45.12	74.00	-28.88	44.47	3.02	35.03	32.66	96	100	Peak	VERTICAL
2	4924.26	31.47	54.00	-22.53	30.82	3.02	35.03	32.66	96	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4843.84	41.69	74.00	-32.31	41.39	3.01	35.20	32.49	198	100	Peak	HORIZONTAL
2	4844.43	27.92	54.00	-26.08	27.62	3.01	35.20	32.49	198	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4844.05	42.68	74.00	-31.32	42.38	3.01	35.20	32.49	264	100	Peak	VERTICAL
2	4844.50	28.28	54.00	-25.72	27.98	3.01	35.20	32.49	264	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.73	28.05	54.00	-25.95	27.63	3.01	35.15	32.56	209	100	Average	HORIZONTAL
2	4874.11	42.37	74.00	-31.63	41.95	3.01	35.15	32.56	209	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.76	28.61	54.00	-25.39	28.19	3.01	35.15	32.56	119	100	Average	VERTICAL
2	4873.90	43.04	74.00	-30.96	42.62	3.01	35.15	32.56	119	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4903.87	28.56	54.00	-25.44	28.00	3.02	35.09	32.63	170	100	Average	HORIZONTAL
2	4904.09	42.04	74.00	-31.96	41.48	3.02	35.09	32.63	170	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4903.76	28.89	54.00	-25.11	28.33	3.02	35.09	32.63	282	100	Average	VERTICAL
2	4904.03	43.91	74.00	-30.09	43.35	3.02	35.09	32.63	282	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 149 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.74	53.79	60.00	-6.21	45.28	4.76	34.75	38.50	294	100	Average	HORIZONTAL
2	11489.92	68.78	80.00	-11.22	60.27	4.76	34.75	38.50	294	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.77	58.54	60.00	-1.46	50.03	4.76	34.75	38.50	302	100	Average	VERTICAL
2	11489.96	73.42	80.00	-6.58	64.91	4.76	34.75	38.50	302	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 157 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11569.67	54.34	60.00	-5.66	45.77	4.86	34.80	38.51	294	100	Average	HORIZONTAL
2	11569.97	70.00	80.00	-10.00	61.40	4.91	34.82	38.51	294	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11569.69	59.14	60.00	-0.86	50.57	4.86	34.80	38.51	302	100	Average	VERTICAL
2	11570.00	75.30	80.00	-4.70	66.70	4.91	34.82	38.51	302	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 20MHz CH 165 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11647.52	62.13	80.00	-17.87	53.47	5.03	34.90	38.53	285	100	Peak	HORIZONTAL
2	11648.23	47.60	60.00	-12.40	38.94	5.03	34.90	38.53	285	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11647.43	51.07	60.00	-8.93	42.41	5.03	34.90	38.53	300	100	Average	VERTICAL
2	11648.06	65.52	80.00	-14.48	56.86	5.03	34.90	38.53	300	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 151 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11509.51	54.40	60.00	-5.60	45.87	4.78	34.75	38.50	293	100	Average	HORIZONTAL
2	11510.00	71.54	80.00	-8.46	63.01	4.78	34.75	38.50	293	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11509.97	76.65	80.00	-3.35	68.12	4.78	34.75	38.50	304	100	Peak	VERTICAL
2	11510.30	59.39	60.00	-0.61	50.86	4.78	34.75	38.50	304	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11an MCS8 40MHz CH 159 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11589.87	51.03	60.00	-8.97	42.42	4.91	34.82	38.52	293	100	Average	HORIZONTAL
2	11589.94	68.59	80.00	-11.41	59.98	4.91	34.82	38.52	293	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11589.94	71.74	80.00	-8.26	63.13	4.91	34.82	38.52	301	100	Peak	VERTICAL
2	11590.34	56.02	60.00	-3.98	47.41	4.91	34.82	38.52	301	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4824.00	40.65	54.00	-13.35	40.45	3.00	35.26	32.46	348	100	Average	HORIZONTAL
2	4824.03	46.35	74.00	-27.65	46.15	3.00	35.26	32.46	348	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.94	49.22	54.00	-4.78	49.02	3.00	35.26	32.46	23	123	Average	VERTICAL
2	4823.94	51.92	74.00	-22.08	51.72	3.00	35.26	32.46	23	123	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 6 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4874.00	48.09	74.00	-25.91	47.67	3.01	35.15	32.56	294	100	Peak	HORIZONTAL
2	4874.03	43.03	54.00	-10.97	42.61	3.01	35.15	32.56	294	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.95	53.40	54.00	-0.60	52.98	3.01	35.15	32.56	304	154	Average	VERTICAL
2	4873.98	55.19	74.00	-18.81	54.77	3.01	35.15	32.56	304	154	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 11 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.97	44.44	54.00	-9.56	43.79	3.02	35.03	32.66	94	100	Average	HORIZONTAL
2	4924.12	48.54	74.00	-25.46	47.89	3.02	35.03	32.66	94	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.93	52.27	54.00	-1.73	51.62	3.02	35.03	32.66	91	128	Average	VERTICAL
2	4924.00	54.53	74.00	-19.47	53.88	3.02	35.03	32.66	91	128	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4824.21	27.66	54.00	-26.34	27.46	3.00	35.26	32.46	197	100	Average	HORIZONTAL
2	4824.43	41.45	74.00	-32.55	41.25	3.00	35.26	32.46	197	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.56	32.48	54.00	-21.52	32.28	3.00	35.26	32.46	22	123	Average	VERTICAL
2	4823.93	47.59	74.00	-26.41	47.39	3.00	35.26	32.46	22	123	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 6 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.79	31.19	54.00	-22.81	30.77	3.01	35.15	32.56	232	100	Average	HORIZONTAL
2	4873.93	45.07	74.00	-28.93	44.65	3.01	35.15	32.56	232	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4874.50	47.60	74.00	-26.40	47.18	3.01	35.15	32.56	323	138	Peak	VERTICAL
2	4874.50	33.71	54.00	-20.29	33.29	3.01	35.15	32.56	323	138	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 11 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.83	42.22	74.00	-31.78	41.57	3.02	35.03	32.66	178	100	Peak	HORIZONTAL
2	4924.31	28.70	54.00	-25.30	28.05	3.02	35.03	32.66	178	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.97	50.55	74.00	-23.45	49.90	3.02	35.03	32.66	94	139	Peak	VERTICAL
2	4924.11	35.72	54.00	-18.28	35.07	3.02	35.03	32.66	94	139	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 149 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11489.69	53.84	60.00	-6.16	45.33	4.76	34.75	38.50	293	100	Average	HORIZONTAL
2	11490.33	69.29	80.00	-10.71	60.78	4.76	34.75	38.50	293	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11490.41	74.98	80.00	-5.02	66.47	4.76	34.75	38.50	303	100	Peak	VERTICAL
2	11490.50	59.43	60.00	-0.57	50.92	4.76	34.75	38.50	303	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 157 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11567.30	54.39	60.00	-5.61	45.82	4.86	34.80	38.51	294	100	Average	HORIZONTAL
2	11567.62	68.27	80.00	-11.73	59.70	4.86	34.80	38.51	294	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11567.37	59.22	60.00	-0.78	50.65	4.86	34.80	38.51	302	100	Average	VERTICAL
2	11567.38	73.16	80.00	-6.84	64.59	4.86	34.80	38.51	302	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a CH 165 / J2+J3+J4, Mode 7 (Ant. 7)
Test Date	Sep. 01, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11646.14	47.66	60.00	-12.34	39.01	4.99	34.87	38.53	301	100	Average	HORIZONTAL
2	11646.49	61.63	80.00	-18.37	52.97	5.03	34.90	38.53	301	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11646.14	52.93	60.00	-7.07	44.28	4.99	34.87	38.53	301	100	Average	VERTICAL
2	11646.49	67.02	80.00	-12.98	58.36	5.03	34.90	38.53	301	100	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 8 (Ant. 8)>:

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4825.37	41.41	74.00	-32.59	40.92	2.46	33.06	35.03	170	100	Peak	HORIZONTAL
2	4825.64	28.90	54.00	-25.10	28.41	2.46	33.06	35.03	170	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4825.20	46.01	74.00	-27.99	45.52	2.46	33.06	35.03	206	100	Peak	VERTICAL
2	4825.31	32.33	54.00	-21.67	31.84	2.46	33.06	35.03	206	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4875.84	41.38	74.00	-32.62	40.78	2.47	33.16	35.03	89	101	Peak	HORIZONTAL
2	4875.91	29.11	54.00	-24.89	28.51	2.47	33.16	35.03	89	101	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4875.65	36.53	54.00	-17.47	35.93	2.47	33.16	35.03	207	100	Average	VERTICAL
2	4875.95	50.15	74.00	-23.85	49.55	2.47	33.16	35.03	207	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.73	41.30	74.00	-32.70	40.58	2.47	33.26	35.01	301	100	Peak	HORIZONTAL
2	4923.99	28.35	54.00	-25.65	27.63	2.47	33.26	35.01	301	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4924.07	33.65	54.00	-20.35	32.93	2.47	33.26	35.01	179	100	Average	VERTICAL
2	4924.11	44.59	74.00	-29.41	43.87	2.47	33.26	35.01	179	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4843.81	28.40	54.00	-25.60	27.88	2.46	33.09	35.03	187	100	Average	HORIZONTAL
2	4844.11	41.27	74.00	-32.73	40.75	2.46	33.09	35.03	187	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4840.36	42.33	74.00	-31.67	41.81	2.46	33.09	35.03	160	100	Peak	VERTICAL
2	4842.16	30.38	54.00	-23.62	29.86	2.46	33.09	35.03	160	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.21	28.96	54.00	-25.04	28.36	2.47	33.16	35.03	226	100	Average	HORIZONTAL
2	4874.36	41.25	74.00	-32.75	40.65	2.47	33.16	35.03	226	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4874.15	46.10	74.00	-27.90	45.50	2.47	33.16	35.03	217	100	Peak	VERTICAL
2	4874.27	32.04	54.00	-21.96	31.44	2.47	33.16	35.03	217	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4896.76	40.81	74.00	-33.19	40.17	2.47	33.19	35.02	167	100	Peak	HORIZONTAL
2	4913.64	28.67	54.00	-25.33	27.99	2.47	33.23	35.02	167	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4901.96	31.27	54.00	-22.73	30.63	2.47	33.19	35.02	213	100	Average	VERTICAL
2	4904.00	45.78	74.00	-28.22	45.14	2.47	33.19	35.02	213	100	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11an MCS8 20MHz CH 149 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11493.09	57.94	60.00	-2.06	49.20	5.24	38.78	35.28	291	115	Average	HORIZONTAL
2	11493.31	71.73	80.00	-8.27	62.99	5.24	38.78	35.28	291	115	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.23	58.90	60.00	-1.10	50.16	5.24	38.78	35.28	262	100	Average	VERTICAL
2	11489.79	75.46	80.00	-4.54	66.72	5.24	38.78	35.28	262	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11an MCS8 20MHz CH 157 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.34	56.03	60.00	-3.97	47.25	5.25	38.83	35.30	301	107	Average	HORIZONTAL
2	11569.93	75.02	80.00	-4.98	66.24	5.25	38.83	35.30	301	107	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11568.89	58.56	60.00	-1.44	49.78	5.25	38.83	35.30	271	109	Average	VERTICAL
2	11569.80	77.12	80.00	-2.88	68.34	5.25	38.83	35.30	271	109	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11an MCS8 20MHz CH 165 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11648.00	65.99	80.00	-14.01	57.15	5.28	38.86	35.30	253	111	Peak	HORIZONTAL
2	11648.43	52.47	60.00	-7.53	43.63	5.28	38.86	35.30	253	111	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11648.27	70.08	80.00	-9.92	61.24	5.28	38.86	35.30	273	100	Peak	VERTICAL
2	11648.64	56.88	60.00	-3.12	48.04	5.28	38.86	35.30	273	100	Average	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11an MCS8 40MHz CH 151 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11506.49	67.31	80.00	-12.69	58.56	5.24	38.79	35.28	303	111	Peak	HORIZONTAL
2	11506.54	54.77	60.00	-5.23	46.02	5.24	38.79	35.28	303	111	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11509.00	56.20	60.00	-3.80	47.45	5.24	38.79	35.28	273	109	Average	VERTICAL
2	11509.29	69.46	80.00	-10.54	60.71	5.24	38.79	35.28	273	109	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11an MCS8 40MHz CH 159 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11589.74	49.40	60.00	-10.60	40.61	5.26	38.83	35.30	252	114	Average	HORIZONTAL
2	11589.92	66.60	80.00	-13.40	57.81	5.26	38.83	35.30	252	114	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11589.91	73.96	80.00	-6.04	65.17	5.26	38.83	35.30	271	122	Peak	VERTICAL
2	11590.54	54.35	60.00	-5.65	45.56	5.26	38.83	35.30	271	122	Average	VERTICAL

Temperature	26°C	Humidity	56%
Test Engineer	Magic Lai	Configurations	IEEE 802.11b CH 1 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.96	46.94	74.00	-27.06	46.45	2.46	33.06	35.03	84	100	Peak	HORIZONTAL
2	4824.00	41.75	54.00	-12.25	41.26	2.46	33.06	35.03	84	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.95	55.20	74.00	-18.80	54.71	2.46	33.06	35.03	199	112	Peak	VERTICAL
2	4823.96	52.59	54.00	-1.41	52.10	2.46	33.06	35.03	199	112	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11b CH 6 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.97	39.61	54.00	-14.39	39.01	2.47	33.16	35.03	82	101	Average	HORIZONTAL
2	4873.98	45.50	74.00	-28.50	44.90	2.47	33.16	35.03	82	101	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4873.93	55.19	74.00	-18.81	54.59	2.47	33.16	35.03	176	101	Peak	VERTICAL
2	4873.97	53.56	54.00	-0.44	52.96	2.47	33.16	35.03	176	101	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11b CH 11 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.93	46.55	74.00	-27.45	45.83	2.47	33.26	35.01	23	100	Peak	HORIZONTAL
2	4923.96	39.51	54.00	-14.49	38.79	2.47	33.26	35.01	23	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.96	53.23	54.00	-0.77	52.51	2.47	33.26	35.01	77	105	Average	VERTICAL
2	4923.99	54.75	74.00	-19.25	54.03	2.47	33.26	35.01	77	105	Peak	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11g CH 1 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.05	29.65	54.00	-24.35	29.16	2.46	33.06	35.03	250	100	Average	HORIZONTAL
2	4824.43	42.07	74.00	-31.93	41.58	2.46	33.06	35.03	250	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.96	50.87	74.00	-23.13	50.38	2.46	33.06	35.03	90	100	Peak	VERTICAL
2	4825.14	35.34	54.00	-18.66	34.85	2.46	33.06	35.03	90	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11g CH 6 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4872.63	31.75	54.00	-22.25	31.15	2.47	33.16	35.03	31	100	Average	HORIZONTAL
2	4873.13	45.96	74.00	-28.04	45.36	2.47	33.16	35.03	31	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4871.18	55.71	74.00	-18.29	55.11	2.47	33.16	35.03	43	100	Peak	VERTICAL
2	4871.23	41.54	54.00	-12.46	40.94	2.47	33.16	35.03	43	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11g CH 11 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4923.82	29.20	54.00	-24.80	28.48	2.47	33.26	35.01	330	100	Average	HORIZONTAL
2	4924.09	41.86	74.00	-32.14	41.14	2.47	33.26	35.01	330	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4919.05	47.13	74.00	-26.87	46.45	2.47	33.23	35.02	49	100	Peak	VERTICAL
2	4919.16	32.93	54.00	-21.07	32.25	2.47	33.23	35.02	49	100	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11a CH 149 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.71	59.00	60.00	-1.00	50.26	5.24	38.78	35.28	299	113	Average	HORIZONTAL
2	11490.85	74.52	80.00	-5.48	65.78	5.24	38.78	35.28	299	113	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11487.42	74.13	80.00	-5.87	65.39	5.24	38.78	35.28	258	104	Peak	VERTICAL
2	11487.63	59.18	60.00	-0.82	50.44	5.24	38.78	35.28	258	104	Average	VERTICAL

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11a CH 157 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11566.76	70.50	80.00	-9.50	61.73	5.25	38.82	35.30	251	100	Peak	HORIZONTAL
2	11566.81	55.84	60.00	-4.16	47.07	5.25	38.82	35.30	251	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11571.80	59.10	60.00	-0.90	50.32	5.25	38.83	35.30	252	100	Average	VERTICAL
2	11571.98	73.24	80.00	-6.76	64.45	5.26	38.83	35.30	252	100	Peak	VERTICAL

Temperature	26℃	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11a CH 165 / J2+J3+J4, Mode 8 (Ant. 8)
Test Date	Jan. 26, 2011		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11650.36	55.91	60.00	-4.09	47.07	5.28	38.86	35.30	265	114	Average	HORIZONTAL
2	11650.82	70.87	80.00	-9.13	62.03	5.28	38.86	35.30	265	114	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11646.57	74.30	80.00	-5.70	65.46	5.28	38.86	35.30	270	110	Peak	VERTICAL
2	11647.26	59.58	60.00	-0.42	50.74	5.28	38.86	35.30	270	110	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6. Band Edge Emissions Measurement

4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

4.6.3. Test Procedures

1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

<For Mode 3 (Ant. 3)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1, 6, 11 / J2+J3+J4, Mode 3 (Ant. 3)
Test date	Aug. 06, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2390.00	53.16	54.00	-0.84	23.24	2.05	0.00	27.87	184	100	Average	VERTICAL
2	2390.00	66.35	74.00	-7.65	36.43	2.05	0.00	27.87	184	100	Peak	VERTICAL
3	2415.80	120.37	74.00			2.07	0.00	27.84	184	100	Peak	VERTICAL
4	2417.60	107.99	54.00			2.07	0.00	27.84	184	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2389.80	64.65	74.00	-9.35	34.73	2.05	0.00	27.87	188	100	Peak	VERTICAL
2	2390.00	52.78	54.00	-1.22	22.86	2.05	0.00	27.87	188	100	Average	VERTICAL
3	2436.40	122.39	74.00			2.07	0.00	27.81	188	100	Peak	VERTICAL
4	2438.00	110.39	54.00			2.07	0.00	27.78	188	100	Average	VERTICAL
5	2483.50	50.23	54.00	-3.77	20.40	2.10	0.00	27.73	188	100	Average	VERTICAL
6	2485.30	64.56	74.00	-9.44	34.73	2.10	0.00	27.73	188	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2460.00	119.17	74.00			2.08	0.00	27.76	191	112	Peak	VERTICAL
2	2460.20	106.54	54.00			2.08	0.00	27.76	191	112	Average	VERTICAL
3	2483.50	52.91	54.00	-1.09	23.08	2.10	0.00	27.73	191	112	Average	VERTICAL
4	2483.50	66.52	74.00	-7.48	36.69	2.10	0.00	27.73	191	112	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3, 6, 9 / J2+J3+J4, Mode 3 (Ant. 3)
Test date	Aug. 06, 2010		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2390.00	53.17	54.00	-0.83	23.25	2.05	0.00	27.87	186	100	Average	VERTICAL
2	2390.00	69.06	74.00	-4.94	39.14	2.05	0.00	27.87	186	100	Peak	VERTICAL
3	2415.20	100.10	54.00			2.05	0.00	27.84	186	100	Average	VERTICAL
4	2415.60	113.26	74.00			2.07	0.00	27.84	186	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2389.60	66.29	74.00	-7.71	36.38	2.04	0.00	27.87	187	100	Peak	VERTICAL
2	2390.00	52.86	54.00	-1.14	22.94	2.05	0.00	27.87	187	100	Average	VERTICAL
3	2427.00	115.78	74.00			2.07	0.00	27.81	187	100	Peak	VERTICAL
4	2428.60	102.82	54.00			2.07	0.00	27.81	187	100	Average	VERTICAL
5	2483.50	50.19	54.00	-3.81	20.36	2.10	0.00	27.73	187	100	Average	VERTICAL
6	2484.30	62.60	74.00	-11.40	32.77	2.10	0.00	27.73	187	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2443.20	99.98	54.00			2.08	0.00	27.78	179	100	Average	VERTICAL
2	2444.80	112.82	74.00			2.08	0.00	27.78	179	100	Peak	VERTICAL
3	2483.50	53.65	54.00	-0.35	23.82	2.10	0.00	27.73	179	100	Average	VERTICAL
4	2483.50	70.86	74.00	-3.14	41.03	2.10	0.00	27.73	179	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1, 6, 11 / J2+J3+J4, Mode 3 (Ant. 3)
Test date	Aug. 06, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2386.20	53.12	54.00	-0.88	23.21	2.04	0.00	27.87	182	100	Average	VERTICAL
2	2386.60	64.48	74.00	-9.52	34.57	2.04	0.00	27.87	182	100	Peak	VERTICAL
3	2411.20	118.68	54.00			2.05	0.00	27.84	182	100	Average	VERTICAL
4	2411.20	122.21	74.00			2.05	0.00	27.84	182	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2389.00	53.05	54.00	-0.95	23.14	2.04	0.00	27.87	189	100	Average	VERTICAL
2	2389.60	64.88	74.00	-9.12	34.97	2.04	0.00	27.87	189	100	Peak	VERTICAL
3	2439.60	123.75	74.00			2.07	0.00	27.78	189	100	Peak	VERTICAL
4	2439.80	120.05	54.00			2.07	0.00	27.78	189	100	Average	VERTICAL
5	2483.50	49.62	54.00	-4.38	19.79	2.10	0.00	27.73	189	100	Average	VERTICAL
6	2485.50	62.68	74.00	-11.32	32.85	2.10	0.00	27.73	189	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2464.60	119.62	74.00			2.08	0.00	27.76	189	100	Peak	VERTICAL
2	2464.80	116.07	54.00			2.08	0.00	27.76	189	100	Average	VERTICAL
3	2487.70	53.08	54.00	-0.92	23.28	2.10	0.00	27.70	189	100	Average	VERTICAL
4	2487.90	63.77	74.00	-10.23	33.97	2.10	0.00	27.70	189	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1, 6, 11 / J2+J3+J4, Mode 3 (Ant. 3)
Test date	Aug. 06, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2388.00	69.65	74.00	-4.35	39.74	2.04	0.00	27.87	190	100	Peak	VERTICAL
2	2390.00	53.27	54.00	-0.73	23.35	2.05	0.00	27.87	190	100	Average	VERTICAL
3	2412.80	111.18	54.00			2.05	0.00	27.84	190	100	Average	VERTICAL
4	2413.40	122.12	74.00			2.05	0.00	27.84	190	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2387.00	52.56	54.00	-1.44	22.65	2.04	0.00	27.87	187	100	Average	VERTICAL
2	2389.60	64.34	74.00	-9.66	34.43	2.04	0.00	27.87	187	100	Peak	VERTICAL
3	2435.20	121.65	74.00			2.07	0.00	27.81	187	100	Peak	VERTICAL
4	2435.40	111.62	54.00			2.07	0.00	27.81	187	100	Average	VERTICAL
5	2483.50	50.01	54.00	-3.99	20.18	2.10	0.00	27.73	187	100	Average	VERTICAL
6	2483.50	63.17	74.00	-10.83	33.34	2.10	0.00	27.73	187	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2462.80	108.61	54.00			2.08	0.00	27.76	181	100	Average	VERTICAL
2	2463.20	118.46	74.00			2.08	0.00	27.76	181	100	Peak	VERTICAL
3	2483.50	53.10	54.00	-0.90	23.27	2.10	0.00	27.73	181	100	Average	VERTICAL
4	2483.50	67.69	74.00	-6.31	37.86	2.10	0.00	27.73	181	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 4 (Ant. 4)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1, 6, 11 / J2+J3+J4, Mode 4 (Ant. 4)
Test date	Jul. 31, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.00	67.49	74.00	-6.51	37.56	1.76	28.17	0.00	182	148	Peak	HORIZONTAL
2	2390.00	53.38	54.00	-0.62	23.45	1.76	28.17	0.00	182	148	Average	HORIZONTAL
3	2409.00	113.12	74.00			1.77	28.21	0.00	182	148	Peak	HORIZONTAL
4	2419.40	100.59	54.00			1.77	28.25	0.00	182	148	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2388.80	67.85	74.00	-6.15	36.94	2.86	0.00	28.05	353	153	Peak	HORIZONTAL
2 !	2390.00	53.14	54.00	-0.86	22.21	2.88	0.00	28.05	353	153	Average	HORIZONTAL
3 a	2434.60	107.54	54.00			2.89	0.00	28.18	353	153	Average	HORIZONTAL
4 p	2435.80	118.98	74.00			2.89	0.00	28.18	353	153	Peak	HORIZONTAL
5 !	2484.10	53.73	54.00	-0.27	22.54	2.93	0.00	28.26	353	153	Average	HORIZONTAL
6 !	2485.10	68.29	74.00	-5.71	37.06	2.93	0.00	28.30	353	153	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2457.00	114.42	74.00			1.80	28.33	0.00	171	114	Peak	HORIZONTAL
2	2457.20	101.17	54.00			1.80	28.33	0.00	171	114	Average	HORIZONTAL
3	2483.50	52.22	54.00	-1.78	22.03	1.81	28.38	0.00	171	114	Average	HORIZONTAL
4	2483.90	66.40	74.00	-7.60	36.21	1.81	28.38	0.00	171	114	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3, 6, 9 / J2+J3+J4, Mode 4 (Ant. 4)
Test date	Jul. 26, 2010		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2388.40	66.10	74.00	-7.90	36.17	1.76	28.17	0.00	200	152	Peak	HORIZONTAL
2	2390.00	52.44	54.00	-1.56	22.51	1.76	28.17	0.00	200	152	Average	HORIZONTAL
3	2415.20	107.90	74.00			1.77	28.21	0.00	200	152	Peak	HORIZONTAL
4	2417.60	95.28	54.00			1.77	28.25	0.00	200	152	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1		2388.40	65.62	74.00	-8.38	34.71	2.86	0.00	28.05	357	150	Peak	HORIZONTAL
2	!	2390.00	50.65	54.00	-3.35	19.72	2.88	0.00	28.05	357	150	Average	HORIZONTAL
3	p	2441.40	110.54	74.00			2.91	0.00	28.18	357	150	Peak	HORIZONTAL
4	a	2449.80	97.94	54.00			2.91	0.00	28.18	357	150	Average	HORIZONTAL
5	!	2483.50	52.86	54.00	-1.14	21.67	2.93	0.00	28.26	357	150	Average	HORIZONTAL
6	!	2484.30	68.91	74.00	-5.09	37.72	2.93	0.00	28.26	357	150	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2446.80	109.64	74.00			2.08	0.00	27.78	172	118	Peak	HORIZONTAL
2	2458.00	96.00	54.00			2.08	0.00	27.76	172	118	Average	HORIZONTAL
3	2483.50	53.07	54.00	-0.93	23.24	2.10	0.00	27.73	172	118	Average	HORIZONTAL
4	2483.90	71.65	74.00	-2.35	41.82	2.10	0.00	27.73	172	118	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1, 6, 11 / J2+J3+J4, Mode 4 (Ant. 4)
Test date	Jul. 26, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2386.00	50.27	54.00	-3.73	20.34	1.76	28.17	0.00	148	100	Average	VERTICAL
2	2387.20	57.69	74.00	-16.31	27.76	1.76	28.17	0.00	148	100	Peak	VERTICAL
3	2409.20	106.95	54.00			1.77	28.21	0.00	148	100	Average	VERTICAL
4	2409.40	110.40	74.00			1.77	28.21	0.00	148	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2388.00	55.09	74.00	-18.91	24.18	2.86	0.00	28.05	7	146	Peak	HORIZONTAL
2	2388.60	45.38	54.00	-8.62	14.47	2.86	0.00	28.05	7	146	Average	HORIZONTAL
3 a	2437.80	110.73	54.00			2.89	0.00	28.18	7	146	Average	HORIZONTAL
4 p	2438.00	114.43	74.00			2.89	0.00	28.18	7	146	Peak	HORIZONTAL
5	2484.30	59.03	74.00	-14.97	27.84	2.93	0.00	28.26	7	146	Peak	HORIZONTAL
6	2484.90	47.73	54.00	-6.27	16.54	2.93	0.00	28.26	7	146	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2458.20	108.31	54.00			1.80	28.33	0.00	173	117	Average	HORIZONTAL
2	2459.40	111.74	74.00			1.80	28.33	0.00	173	117	Peak	HORIZONTAL
3	2487.90	47.22	54.00	-6.78	16.99	1.81	28.42	0.00	173	117	Average	HORIZONTAL
4	2487.90	57.73	74.00	-16.27	27.50	1.81	28.42	0.00	173	117	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1, 6, 11 / J2+J3+J4, Mode 4 (Ant. 4)
Test date	Jul. 31, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.80	73.06	74.00	-0.94	43.13	1.76	28.17	0.00	175	121	Peak	HORIZONTAL
2	2390.00	53.32	54.00	-0.68	23.39	1.76	28.17	0.00	175	121	Average	HORIZONTAL
3	2410.40	103.78	54.00			1.77	28.21	0.00	175	121	Average	HORIZONTAL
4	2410.80	113.78	74.00			1.77	28.21	0.00	175	121	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	!	2388.40	50.52	54.00	-3.48	19.61	2.86	0.00	28.05	356	125	Average	HORIZONTAL
2		2388.80	63.43	74.00	-10.57	32.52	2.86	0.00	28.05	356	125	Peak	HORIZONTAL
3	a	2438.00	108.07	54.00			2.89	0.00	28.18	356	125	Average	HORIZONTAL
4	p	2438.20	118.21	74.00			2.89	0.00	28.18	356	125	Peak	HORIZONTAL
5		2483.50	67.11	74.00	-6.89	35.92	2.93	0.00	28.26	356	125	Peak	HORIZONTAL
6	!	2483.50	52.45	54.00	-1.55	21.26	2.93	0.00	28.26	356	125	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2460.80	104.92	54.00			1.80	28.33	0.00	169	139	Average	HORIZONTAL
2	2460.80	115.10	74.00			1.80	28.33	0.00	169	139	Peak	HORIZONTAL
3	2483.50	52.20	54.00	-1.80	22.01	1.81	28.38	0.00	169	139	Average	HORIZONTAL
4	2483.50	65.51	74.00	-8.49	35.32	1.81	28.38	0.00	169	139	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 5 (Ant. 5)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1, 6, 11 / J2+J3+J4, Mode 5 (Ant. 5)
Test date	Aug. 12, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.40	69.22	74.00	-4.78	39.29	1.76	28.17	0.00	314	118	Peak	VERTICAL
2	2390.00	53.73	54.00	-0.27	23.80	1.76	28.17	0.00	314	118	Average	VERTICAL
3	2410.80	114.56	74.00			1.77	28.21	0.00	314	118	Peak	VERTICAL
4	2411.00	104.20	54.00			1.77	28.21	0.00	314	118	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.60	64.38	74.00	-9.62	34.45	1.76	28.17	0.00	318	125	Peak	VERTICAL
2	2390.00	53.77	54.00	-0.23	23.84	1.76	28.17	0.00	318	125	Average	VERTICAL
3	2439.80	109.82	54.00			1.78	28.29	0.00	318	125	Average	VERTICAL
4	2441.20	121.94	74.00			1.78	28.29	0.00	318	125	Peak	VERTICAL
5	2483.50	53.60	54.00	-0.40	23.42	1.81	28.37	0.00	318	125	Average	VERTICAL
6	2484.10	69.70	74.00	-4.30	39.52	1.81	28.37	0.00	318	125	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2456.60	117.28	74.00			1.80	28.33	0.00	311	129	Peak	VERTICAL
2	2462.80	104.79	54.00			1.80	28.33	0.00	311	129	Average	VERTICAL
3	2483.50	53.79	54.00	-0.21	23.61	1.81	28.37	0.00	311	129	Average	VERTICAL
4	2483.50	70.76	74.00	-3.24	40.58	1.81	28.37	0.00	311	129	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3, 6, 9 / J2+J3+J4, Mode 5 (Ant. 5)
Test date	Aug. 12, 2010		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2384.80	67.91	74.00	-6.09	37.98	1.76	28.17	0.00	313	119	Peak	VERTICAL
2	2390.00	53.69	54.00	-0.31	23.76	1.76	28.17	0.00	313	119	Average	VERTICAL
3	2425.60	108.93	74.00			1.77	28.25	0.00	313	119	Peak	VERTICAL
4	2426.80	97.88	54.00			1.77	28.25	0.00	313	119	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2384.40	65.61	74.00	-8.39	35.68	1.76	28.17	0.00	314	137	Peak	VERTICAL
2	2390.00	51.88	54.00	-2.12	21.95	1.76	28.17	0.00	314	137	Average	VERTICAL
3	2443.40	100.18	54.00			1.78	28.29	0.00	314	137	Average	VERTICAL
4	2444.20	112.07	74.00			1.78	28.29	0.00	314	137	Peak	VERTICAL
5	2483.50	52.85	54.00	-1.15	22.67	1.81	28.37	0.00	314	137	Average	VERTICAL
6	2484.70	68.66	74.00	-5.34	38.48	1.81	28.37	0.00	314	137	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2456.00	111.64	74.00			1.80	28.33	0.00	312	132	Peak	VERTICAL
2	2456.80	99.34	54.00			1.80	28.33	0.00	312	132	Average	VERTICAL
3	2483.50	53.52	54.00	-0.48	23.34	1.81	28.37	0.00	312	132	Average	VERTICAL
4	2487.90	69.27	74.00	-4.73	39.05	1.81	28.41	0.00	312	132	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1, 6, 11 / J2+J3+J4, Mode 5 (Ant. 5)
Test date	Aug. 12, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2386.20	53.03	54.00	-0.97	23.10	1.76	28.17	0.00	360	118	Average	VERTICAL
2	2386.60	61.55	74.00	-12.45	31.62	1.76	28.17	0.00	360	118	Peak	VERTICAL
3	2411.20	114.08	54.00			1.77	28.21	0.00	360	118	Average	VERTICAL
4	2411.20	117.47	74.00			1.77	28.21	0.00	360	118	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2388.60	50.36	54.00	-3.64	20.43	1.76	28.17	0.00	31	115	Average	VERTICAL
2	2388.60	61.35	74.00	-12.65	31.42	1.76	28.17	0.00	31	115	Peak	VERTICAL
3	2438.60	120.57	74.00			1.78	28.29	0.00	31	115	Peak	VERTICAL
4	2438.80	117.14	54.00			1.78	28.29	0.00	31	115	Average	VERTICAL
5	2483.50	62.09	74.00	-11.91	31.91	1.81	28.37	0.00	31	115	Peak	VERTICAL
6	2484.30	53.16	54.00	-0.84	22.98	1.81	28.37	0.00	31	115	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2458.00	117.89	74.00			1.80	28.33	0.00	145	141	Peak	VERTICAL
2	2458.20	114.48	54.00			1.80	28.33	0.00	145	141	Average	VERTICAL
3	2488.10	62.69	74.00	-11.31	32.47	1.81	28.41	0.00	145	141	Peak	VERTICAL
4	2488.20	53.31	54.00	-0.69	23.09	1.81	28.41	0.00	145	141	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1, 6, 11 / J2+J3+J4, Mode 5 (Ant. 5)
Test date	Aug. 12, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.00	71.23	74.00	-2.77	41.30	1.76	28.17	0.00	360	120	Peak	VERTICAL
2	2390.00	53.47	54.00	-0.53	23.54	1.76	28.17	0.00	360	120	Average	VERTICAL
3	2418.20	116.04	74.00			1.77	28.25	0.00	360	120	Peak	VERTICAL
4	2418.40	106.75	54.00			1.77	28.25	0.00	360	120	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.00	68.67	74.00	-5.33	38.74	1.76	28.17	0.00	325	128	Peak	VERTICAL
2	2390.00	53.95	54.00	-0.05	24.02	1.76	28.17	0.00	325	128	Average	VERTICAL
3	2439.00	122.71	74.00			1.78	28.29	0.00	325	128	Peak	VERTICAL
4	2439.60	112.99	54.00			1.78	28.29	0.00	325	128	Average	VERTICAL
5	2483.50	53.87	54.00	-0.13	23.69	1.81	28.37	0.00	325	128	Average	VERTICAL
6	2483.90	70.18	74.00	-3.82	40.00	1.81	28.37	0.00	325	128	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2468.80	107.27	54.00			1.80	28.37	0.00	300	114	Average	VERTICAL
2	2469.00	116.33	74.00			1.80	28.37	0.00	300	114	Peak	VERTICAL
3	2483.50	52.78	54.00	-1.22	22.60	1.81	28.37	0.00	300	114	Average	VERTICAL
4	2483.70	68.09	74.00	-5.91	37.91	1.81	28.37	0.00	300	114	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 7 (Ant. 7)>:

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 1, 6, 11 / J2+J3+J4, Mode 7 (Ant. 7)
Test date	Sep. 01, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2389.40	66.08	74.00	-7.92	36.17	2.04	0.00	27.87	194	100	Peak	HORIZONTAL
2	2390.00	48.74	54.00	-5.26	18.82	2.05	0.00	27.87	194	100	Average	HORIZONTAL
3	2411.60	107.63	74.00			2.05	0.00	27.84	194	100	Peak	HORIZONTAL
4	2416.00	95.67	54.00			2.07	0.00	27.84	194	100	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2389.20	66.34	74.00	-7.66	36.43	2.04	0.00	27.87	182	155	Peak	VERTICAL
2	2390.00	52.33	54.00	-1.67	22.41	2.05	0.00	27.87	182	155	Average	VERTICAL
3	2430.60	105.59	54.00			2.07	0.00	27.81	182	155	Average	VERTICAL
4	2433.80	117.81	74.00			2.07	0.00	27.81	182	155	Peak	VERTICAL
5	2483.50	50.94	54.00	-3.06	21.11	2.10	0.00	27.73	182	155	Average	VERTICAL
6	2483.70	67.00	74.00	-7.00	37.17	2.10	0.00	27.73	182	155	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2464.20	102.50	54.00			2.08	0.00	27.76	144	158	Average	VERTICAL
2	2464.60	114.45	74.00			2.08	0.00	27.76	144	158	Peak	VERTICAL
3	2483.50	52.55	54.00	-1.45	22.72	2.10	0.00	27.73	144	158	Average	VERTICAL
4	2483.50	68.80	74.00	-5.20	38.97	2.10	0.00	27.73	144	158	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26°C	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 3, 6, 9 / J2+J3+J4, Mode 7 (Ant. 7)
Test date	Sep. 01, 2010		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2390.00	52.97	54.00	-1.03	23.05	2.05	0.00	27.87	179	168	Average	VERTICAL
2	2390.00	68.17	74.00	-5.83	38.25	2.05	0.00	27.87	179	168	Peak	VERTICAL
3	2426.00	110.44	74.00			2.07	0.00	27.81	179	168	Peak	VERTICAL
4	2426.80	97.57	54.00			2.07	0.00	27.81	179	168	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2384.00	70.55	74.00	-3.45	40.62	2.04	0.00	27.89	179	137	Peak	VERTICAL
2	2390.00	53.06	54.00	-0.94	23.14	2.05	0.00	27.87	179	137	Average	VERTICAL
3	2427.40	112.12	74.00			2.07	0.00	27.81	179	137	Peak	VERTICAL
4	2428.60	98.74	54.00			2.07	0.00	27.81	179	137	Average	VERTICAL
5	2483.50	51.06	54.00	-2.94	21.23	2.10	0.00	27.73	179	137	Average	VERTICAL
6	2483.90	66.48	74.00	-7.52	36.65	2.10	0.00	27.73	179	137	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2447.60	109.49	74.00			2.08	0.00	27.78	176	147	Peak	VERTICAL
2	2457.20	97.39	54.00			2.08	0.00	27.76	176	147	Average	VERTICAL
3	2483.50	53.18	54.00	-0.82	23.35	2.10	0.00	27.73	176	147	Average	VERTICAL
4	2483.50	69.29	74.00	-4.71	39.46	2.10	0.00	27.73	176	147	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b CH 1, 6, 11 / J2+J3+J4, Mode 7 (Ant. 7)
Test date	Sep. 01, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2386.00	58.83	74.00	-15.17	28.92	2.04	0.00	27.87	225	121	Peak	VERTICAL
2	2386.40	50.62	54.00	-3.38	20.71	2.04	0.00	27.87	225	121	Average	VERTICAL
3	2412.80	110.29	54.00			2.05	0.00	27.84	225	121	Average	VERTICAL
4	2413.00	113.98	74.00			2.05	0.00	27.84	225	121	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2389.00	46.26	54.00	-7.74	16.35	2.04	0.00	27.87	195	145	Average	VERTICAL
2	2389.20	56.67	74.00	-17.33	26.76	2.04	0.00	27.87	195	145	Peak	VERTICAL
3	2438.80	110.77	54.00			2.07	0.00	27.78	195	145	Average	VERTICAL
4	2439.60	114.41	74.00			2.07	0.00	27.78	195	145	Peak	VERTICAL
5	2484.30	56.15	74.00	-17.85	26.32	2.10	0.00	27.73	195	145	Peak	VERTICAL
6	2485.50	44.77	54.00	-9.23	14.94	2.10	0.00	27.73	195	145	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2459.40	113.99	74.00			2.08	0.00	27.76	213	138	Peak	VERTICAL
2	2460.20	110.34	54.00			2.08	0.00	27.76	213	138	Average	VERTICAL
3	2487.70	47.69	54.00	-6.31	17.89	2.10	0.00	27.70	213	138	Average	VERTICAL
4	2487.70	57.45	74.00	-16.55	27.65	2.10	0.00	27.70	213	138	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g CH 1, 6, 11 / J2+J3+J4, Mode 7 (Ant. 7)
Test date	Sep. 01, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2390.00	53.38	54.00	-0.62	23.46	2.05	0.00	27.87	164	150	Average	VERTICAL
2	2390.00	72.78	74.00	-1.22	42.86	2.05	0.00	27.87	164	150	Peak	VERTICAL
3	2411.20	104.54	54.00			2.05	0.00	27.84	164	150	Average	VERTICAL
4	2411.60	114.55	74.00			2.05	0.00	27.84	164	150	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2388.80	69.73	74.00	-4.27	39.82	2.04	0.00	27.87	339	157	Peak	VERTICAL
2	2390.00	52.53	54.00	-1.47	22.61	2.05	0.00	27.87	339	157	Average	VERTICAL
3	2436.00	106.74	54.00			2.07	0.00	27.81	339	157	Average	VERTICAL
4	2436.00	116.52	74.00			2.07	0.00	27.81	339	157	Peak	VERTICAL
5	2483.70	50.71	54.00	-3.29	20.88	2.10	0.00	27.73	339	157	Average	VERTICAL
6	2483.70	64.42	74.00	-9.58	34.59	2.10	0.00	27.73	339	157	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2460.80	115.30	74.00			2.08	0.00	27.76	212	148	Peak	VERTICAL
2	2461.00	105.46	54.00			2.08	0.00	27.76	212	148	Average	VERTICAL
3	2483.50	52.19	54.00	-1.81	22.36	2.10	0.00	27.73	212	148	Average	VERTICAL
4	2483.50	70.32	74.00	-3.68	40.49	2.10	0.00	27.73	212	148	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For Mode 8 (Ant. 8)>:

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 20MHz Ch 1, 6, 11 / J2+J3+J4, Mode 8 (Ant. 8)
Test date	Jan. 26, 2011		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.80	67.59	74.00	-6.41	37.66	1.76	28.17	0.00	325	100	Peak	VERTICAL
2	2390.00	52.77	54.00	-1.23	22.84	1.76	28.17	0.00	325	100	Average	VERTICAL
3	2415.20	102.81	54.00			1.77	28.21	0.00	325	100	Average	VERTICAL
4	2415.20	114.83	74.00			1.77	28.21	0.00	325	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.60	64.51	74.00	-9.49	34.58	1.76	28.17	0.00	19	100	Peak	VERTICAL
2	2390.00	50.81	54.00	-3.19	20.88	1.76	28.17	0.00	19	100	Average	VERTICAL
3	2437.20	118.23	74.00			1.78	28.29	0.00	19	100	Peak	VERTICAL
4	2438.20	105.81	54.00			1.78	28.29	0.00	19	100	Average	VERTICAL
5	2483.50	51.54	54.00	-2.46	21.36	1.81	28.37	0.00	19	100	Average	VERTICAL
6	2485.10	65.12	74.00	-8.88	34.90	1.81	28.41	0.00	19	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2458.60	102.20	54.00			1.80	28.33	0.00	334	100	Average	VERTICAL
2	2458.80	114.79	74.00			1.80	28.33	0.00	334	100	Peak	VERTICAL
3	2483.50	52.80	54.00	-1.20	22.62	1.81	28.37	0.00	334	100	Average	VERTICAL
4	2483.50	69.49	74.00	-4.51	39.31	1.81	28.37	0.00	334	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11n MCS8 40MHz Ch 3, 6, 9 / J2+J3+J4, Mode 8 (Ant. 8)
Test date	Jan. 26, 2011		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.60	68.05	74.00	-5.95	38.12	1.76	28.17	0.00	300	100	Peak	VERTICAL
2	2390.00	52.87	54.00	-1.13	22.94	1.76	28.17	0.00	300	100	Average	VERTICAL
3	2418.80	109.15	74.00			1.77	28.25	0.00	300	100	Peak	VERTICAL
4	2427.20	96.06	54.00			1.77	28.25	0.00	300	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2384.00	66.06	74.00	-7.94	36.13	1.76	28.17	0.00	350	100	Peak	VERTICAL
2	2390.00	49.70	54.00	-4.30	19.77	1.76	28.17	0.00	350	100	Average	VERTICAL
3	2423.00	109.76	74.00			1.77	28.25	0.00	350	100	Peak	VERTICAL
4	2424.20	97.33	54.00			1.77	28.25	0.00	350	100	Average	VERTICAL
5	2483.50	53.16	54.00	-0.84	22.98	1.81	28.37	0.00	350	100	Average	VERTICAL
6	2483.90	70.41	74.00	-3.59	40.23	1.81	28.37	0.00	350	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2445.60	87.06	54.00			1.78	28.29	0.00	268	100	Average	HORIZONTAL
2	2446.00	100.02	74.00			1.78	28.29	0.00	268	100	Peak	HORIZONTAL
3	2483.50	47.66	54.00	-6.34	17.47	1.81	28.38	0.00	268	100	Average	HORIZONTAL
4	2484.30	64.13	74.00	-9.87	33.94	1.81	28.38	0.00	268	100	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11b CH 1, 6, 11 / J2+J3+J4, Mode 8 (Ant. 8)
Test date	Jan. 26, 2011		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2386.00	60.51	74.00	-13.49	30.58	1.76	28.17	0.00	307	100	Peak	VERTICAL
2	2386.60	52.90	54.00	-1.10	22.97	1.76	28.17	0.00	307	100	Average	VERTICAL
3	2410.40	111.70	54.00			1.77	28.21	0.00	307	100	Average	VERTICAL
4	2411.00	115.06	74.00			1.77	28.21	0.00	307	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.80	56.74	74.00	-17.26	26.81	1.76	28.17	0.00	325	100	Peak	VERTICAL
2	2390.00	45.02	54.00	-8.98	15.09	1.76	28.17	0.00	325	100	Average	VERTICAL
3	2439.20	114.67	54.00		50	1.78	28.29	0.00	325	100	Average	VERTICAL
4	2439.60	118.49	74.00		12	1.78	28.29	0.00	325	100	Peak	VERTICAL
5	2484.70	46.97	54.00	-7.03	16.79	1.81	28.37	0.00	325	100	Average	VERTICAL
6	2484.90	58.19	74.00	-15.81	28.01	1.81	28.37	0.00	325	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2459.20	112.91	54.00			1.80	28.33	0.00	331	100	Average	VERTICAL
2	2459.40	116.75	74.00			1.80	28.33	0.00	331	100	Peak	VERTICAL
3	2487.80	51.73	54.00	-2.27	21.51	1.81	28.41	0.00	331	100	Average	VERTICAL
4	2487.90	60.21	74.00	-13.79	29.99	1.81	28.41	0.00	331	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	26°C	Humidity	60%
Test Engineer	Magic Lai	Configurations	IEEE 802.11g CH 1, 6, 11 / J2+J3+J4, Mode 8 (Ant. 8)
Test date	Jan. 26, 2011		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.60	73.32	74.00	-0.68	43.39	1.76	28.17	0.00	355	100	Peak	VERTICAL
2	2390.00	53.03	54.00	-0.97	23.10	1.76	28.17	0.00	355	100	Average	VERTICAL
3	2409.00	114.24	74.00			1.77	28.21	0.00	355	100	Peak	VERTICAL
4	2409.20	103.86	54.00			1.77	28.21	0.00	355	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2388.20	64.98	74.00	-9.02	35.05	1.76	28.17	0.00	248	100	Peak	VERTICAL
2	2390.00	50.10	54.00	-3.90	20.17	1.76	28.17	0.00	248	100	Average	VERTICAL
3	2434.20	107.64	54.00			1.78	28.29	0.00	248	100	Average	VERTICAL
4	2434.60	117.79	74.00			1.78	28.29	0.00	248	100	Peak	VERTICAL
5	2483.50	53.22	54.00	-0.78	23.04	1.81	28.37	0.00	248	100	Average	VERTICAL
6	2483.50	70.86	74.00	-3.14	40.68	1.81	28.37	0.00	248	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2463.20	103.45	54.00			1.80	28.33	0.00	349	100	Average	VERTICAL
2	2463.40	113.94	74.00			1.80	28.33	0.00	349	100	Peak	VERTICAL
3	2483.50	53.62	54.00	-0.38	23.44	1.81	28.37	0.00	349	100	Average	VERTICAL
4	2483.50	71.61	74.00	-2.39	41.43	1.81	28.37	0.00	349	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

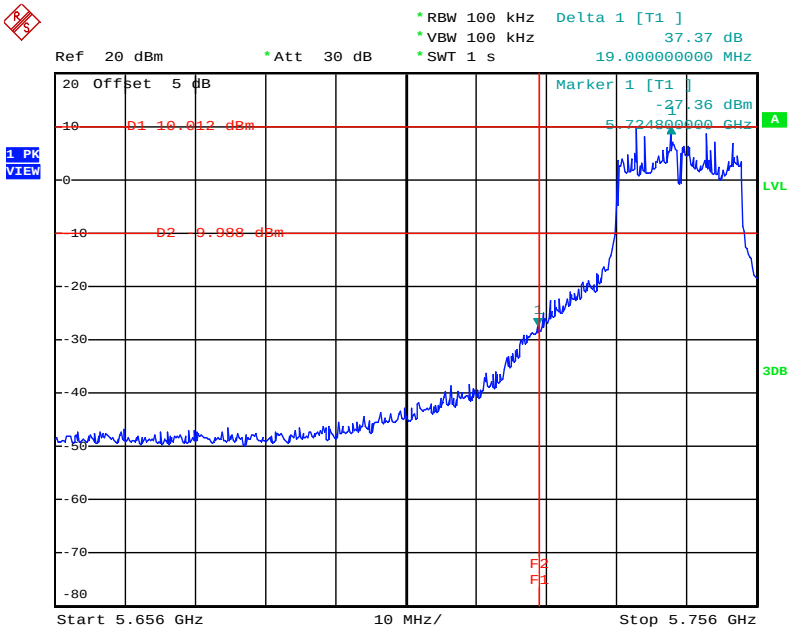
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Emission not in Restricted Band

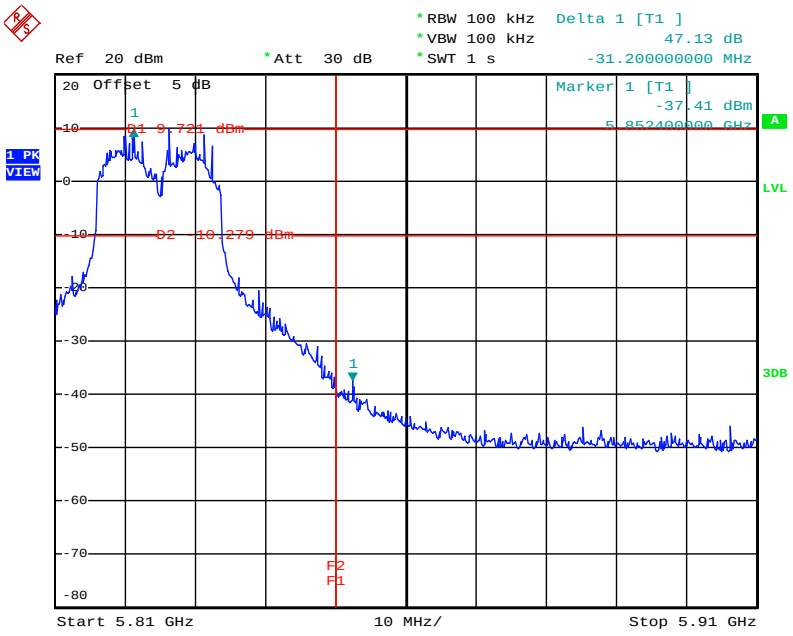
<For Mode 1 (Ant. 1)>:

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5745 MHz



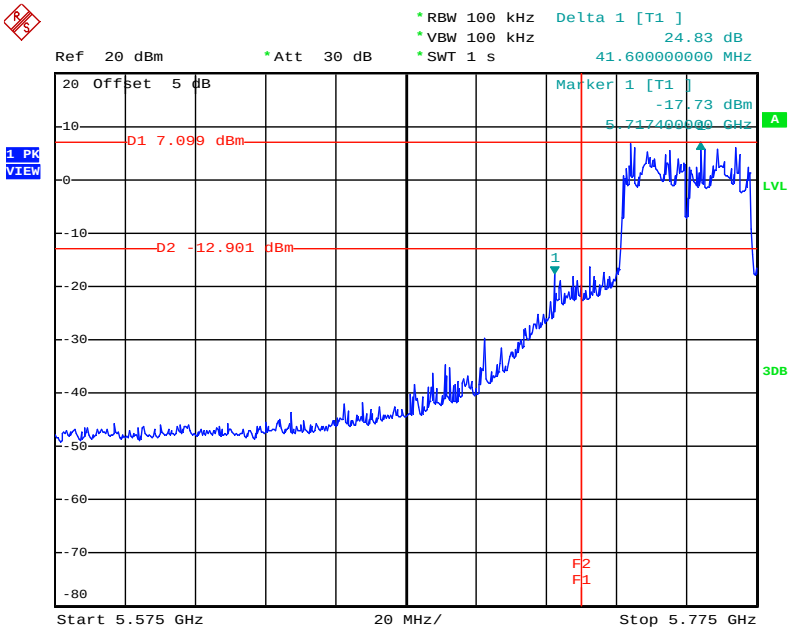
Date: 12.AUG.2010 15:55:23

High Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5825 MHz



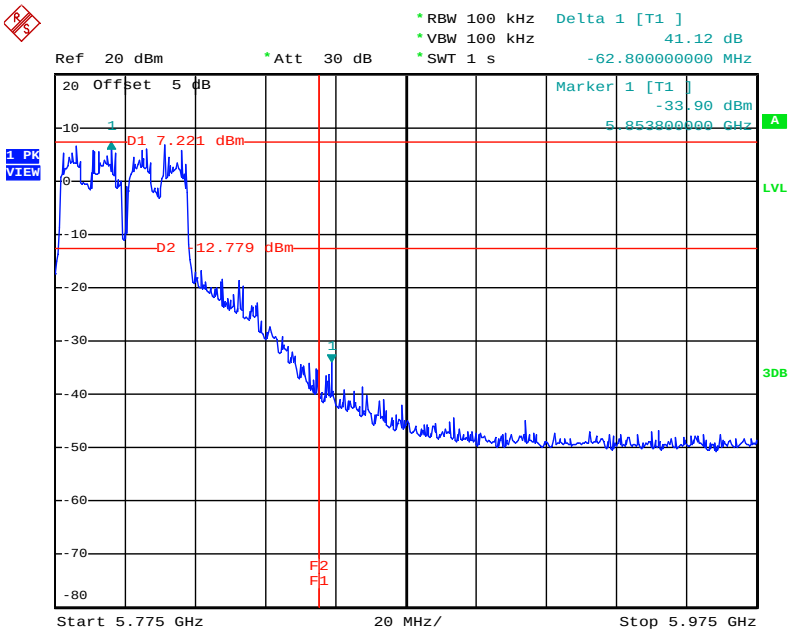
Date: 12.AUG.2010 15:51:03

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5755 MHz



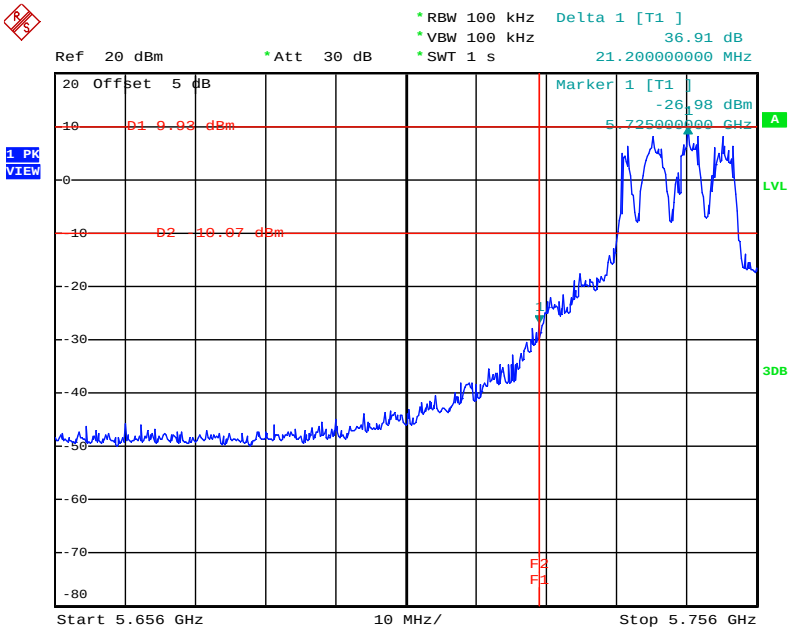
Date: 12.AUG.2010 15:57:47

High Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5795 MHz



Date: 12.AUG.2010 15:59:38

Low Band Edge Plot on Configuration IEEE 802.11a / 5745 MHz



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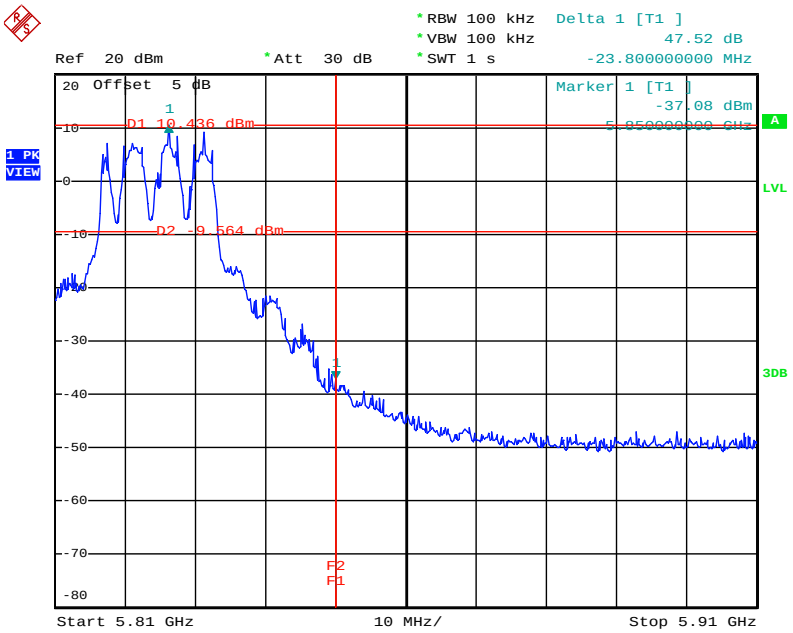
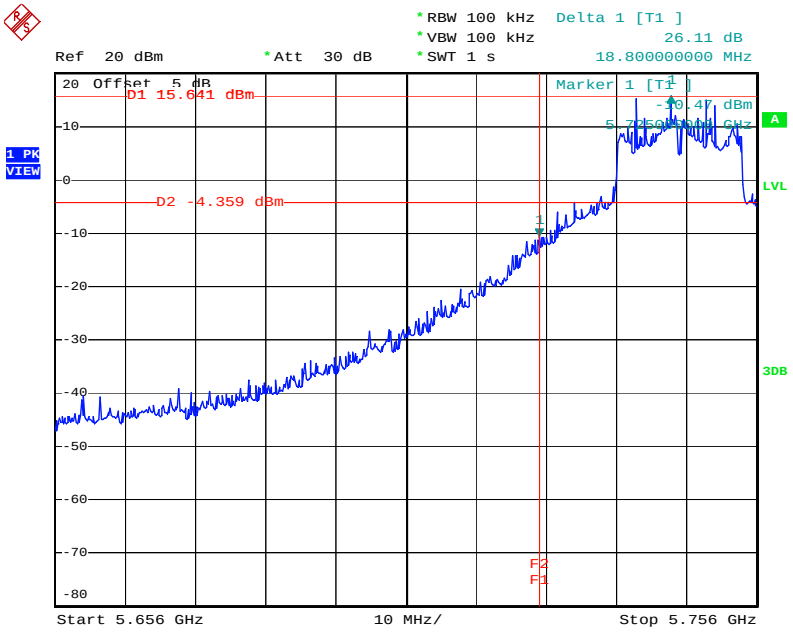
High Band Edge Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 12.AUG.2010 15:48:56

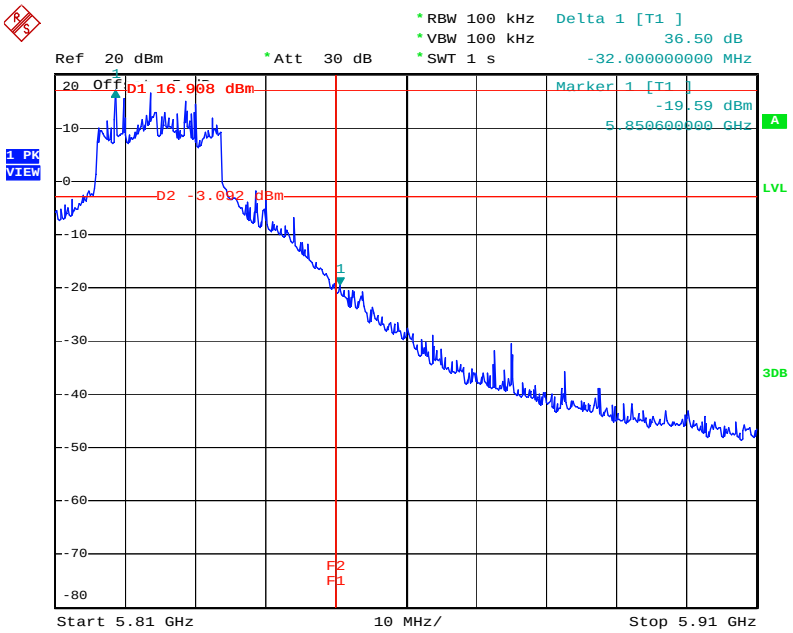
<For Mode 2 (Ant. 2)>:

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5745 MHz



Date: 11.AUG.2010 19:37:16

High Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5825 MHz



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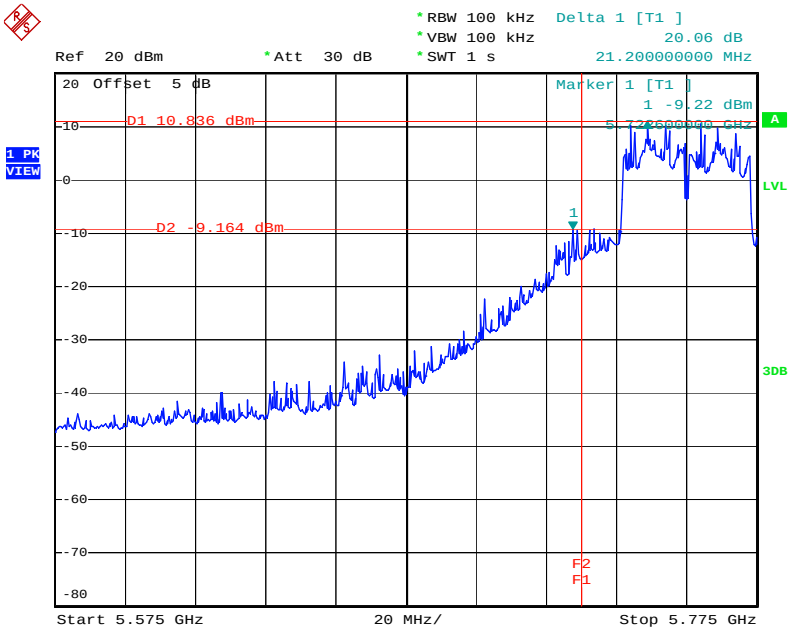
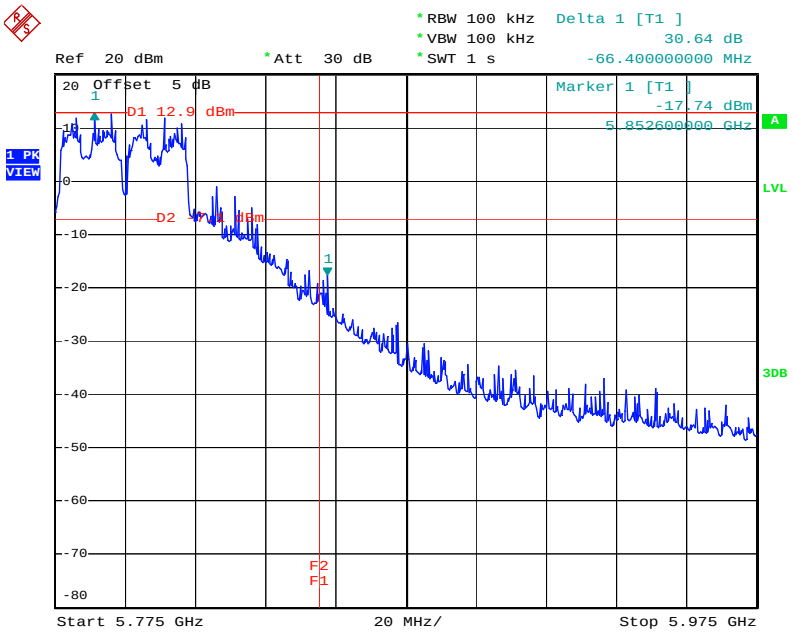
Low Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5755 MHz



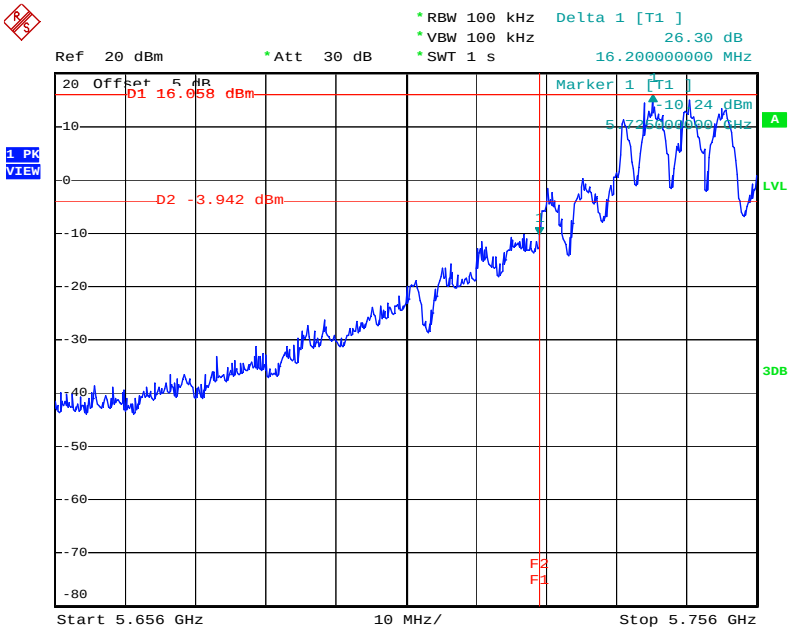
Date: 11.AUG.2010 19:14:00

High Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5795 MHz



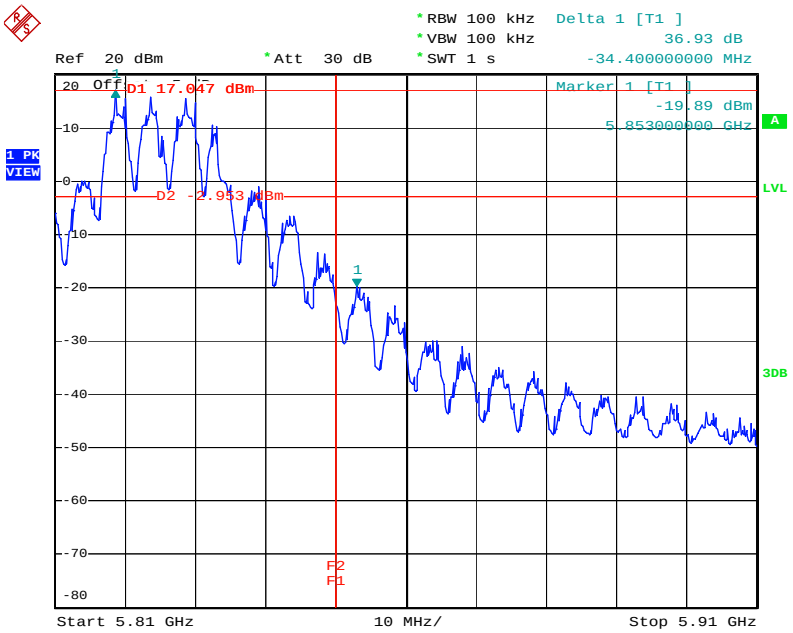
Date: 11.AUG.2010 19:19:21

Low Band Edge Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 11.AUG.2010 19:52:33

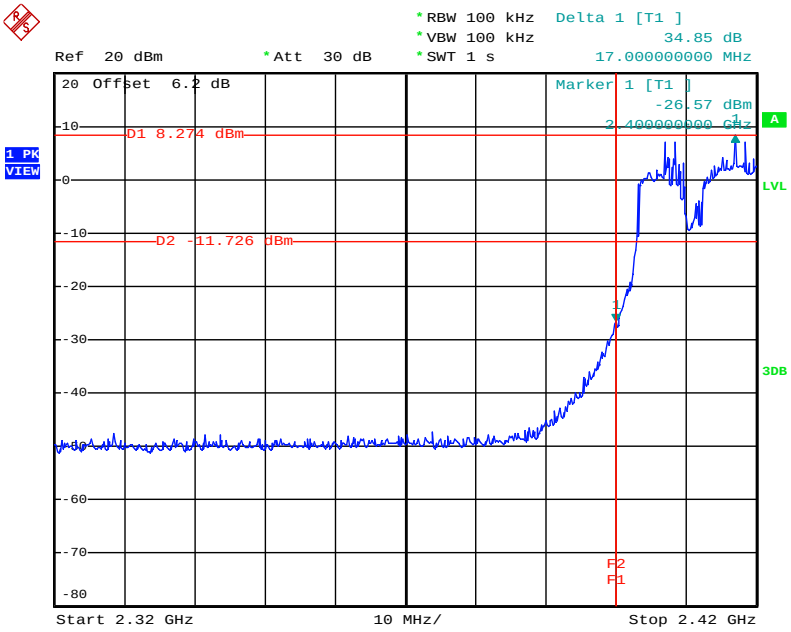
High Band Edge Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 11.AUG.2010 19:46:41

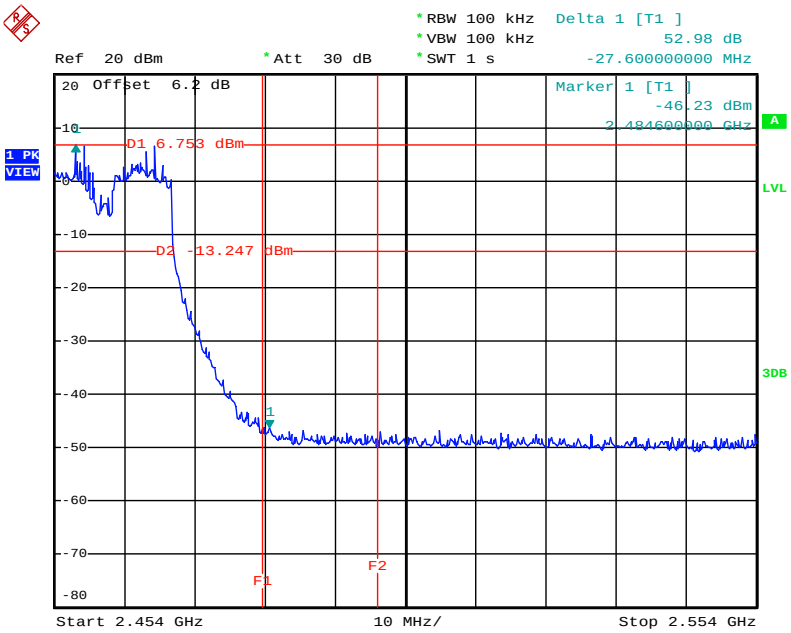
<For Mode 3 (Ant. 3)>:

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



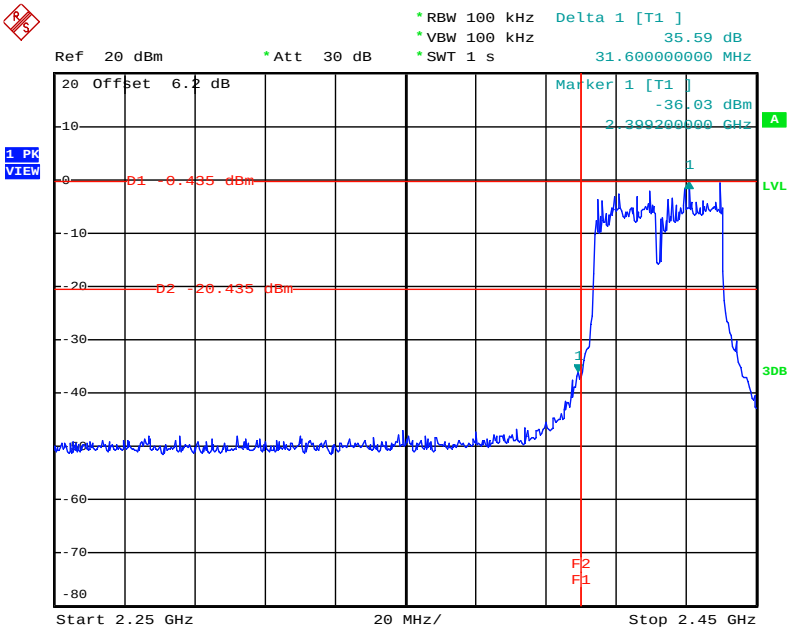
Date: 12.AUG.2010 02:29:11

High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



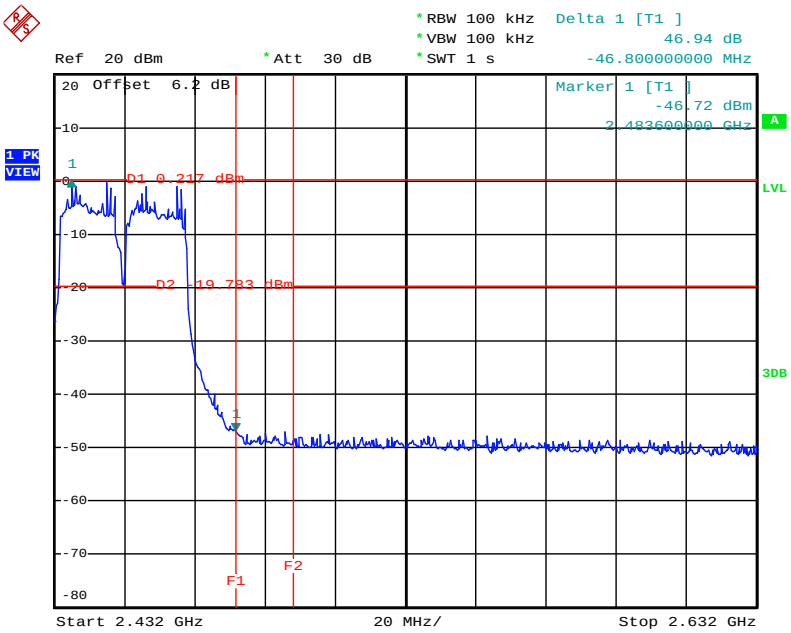
Date: 12.AUG.2010 02:24:54

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2422 MHz



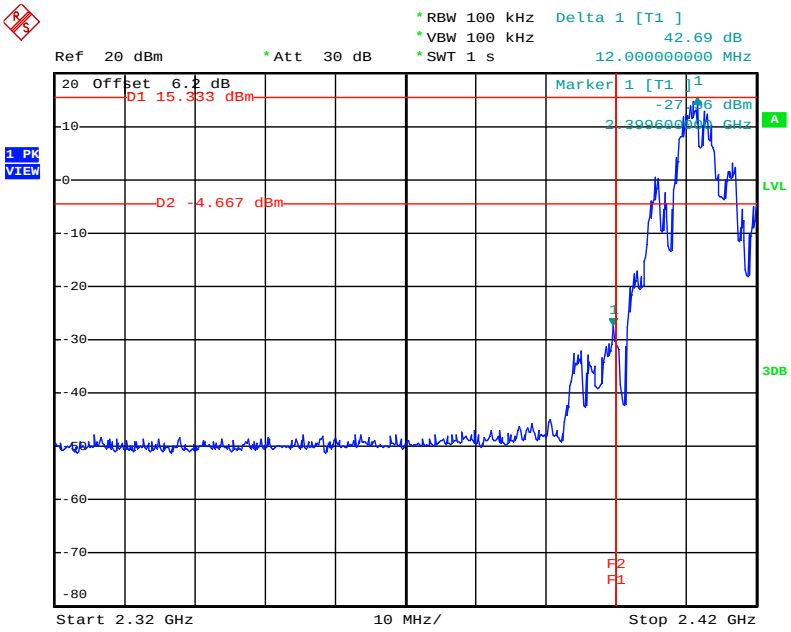
Date: 12.AUG.2010 02:18:04

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



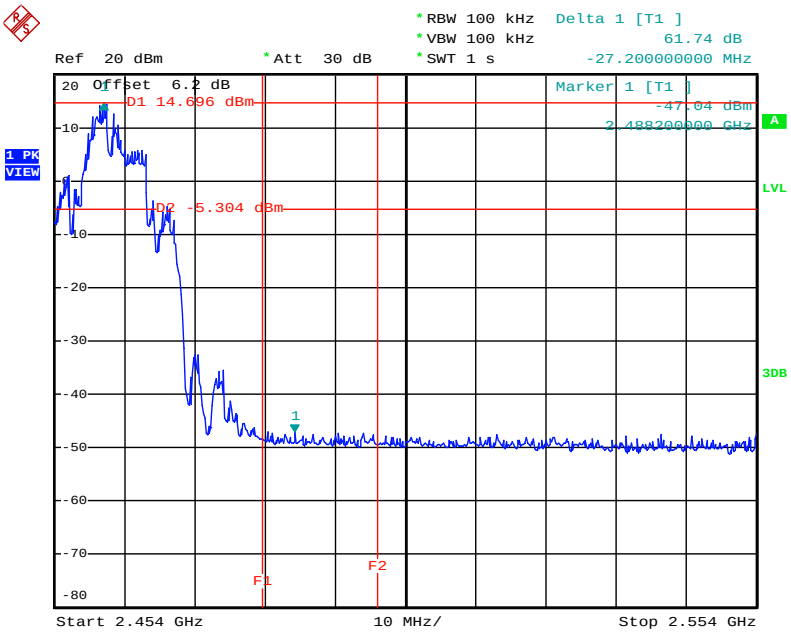
Date: 12.AUG.2010 02:22:06

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



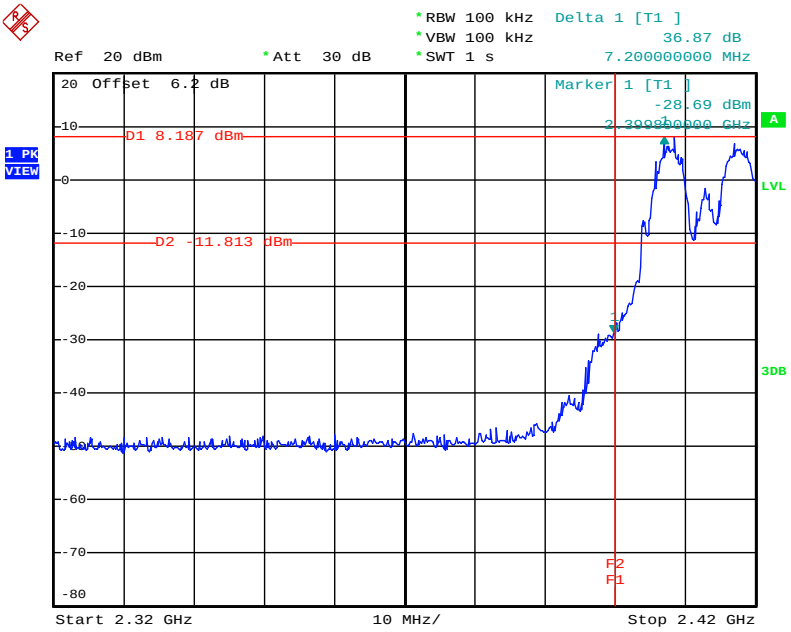
Date: 12.AUG.2010 02:31:30

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



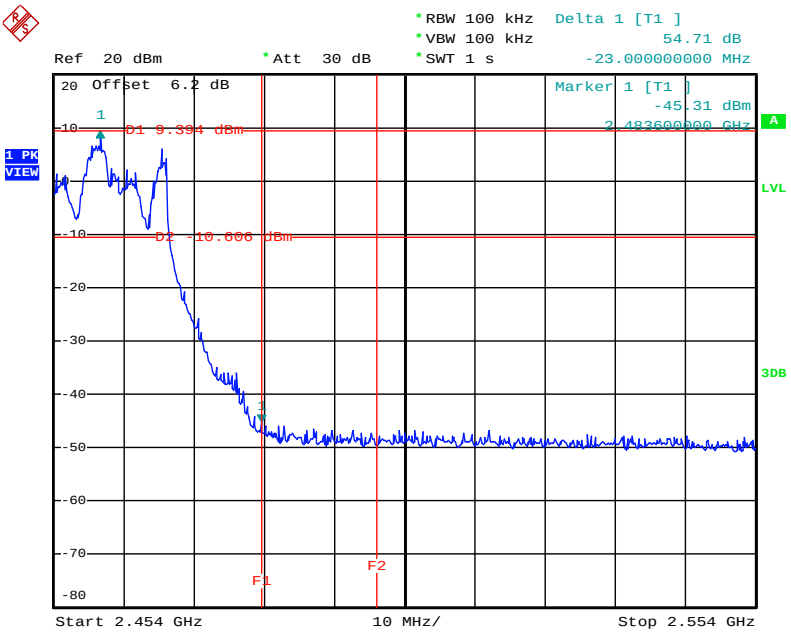
Date: 12.AUG.2010 02:35:35

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 12.AUG.2010 02:41:52

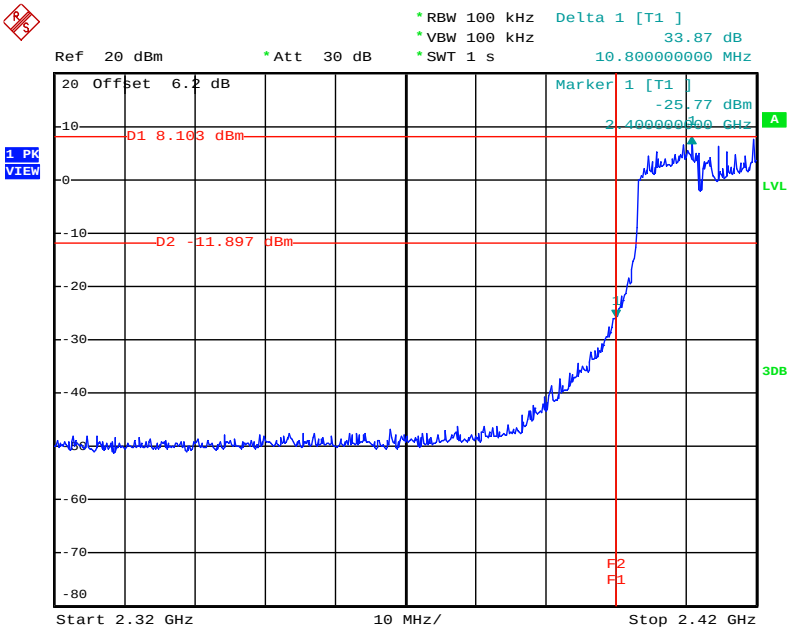
High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 12.AUG.2010 02:37:49

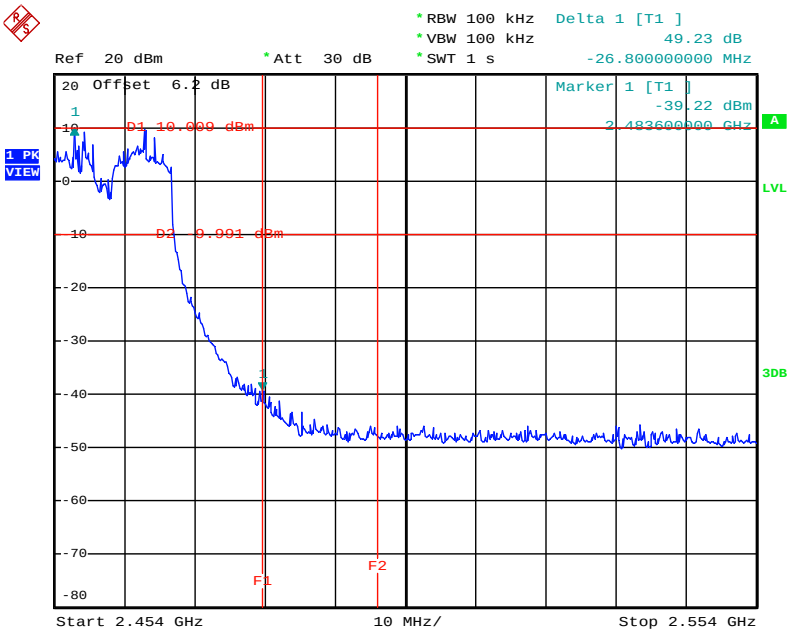
<For Mode 4 (Ant. 4)>:

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



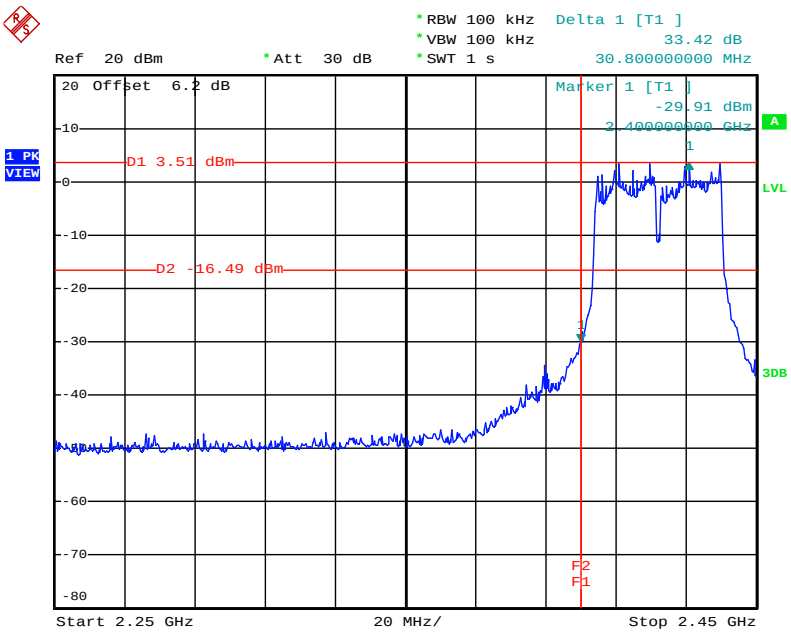
Date: 12.AUG.2010 03:02:36

High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



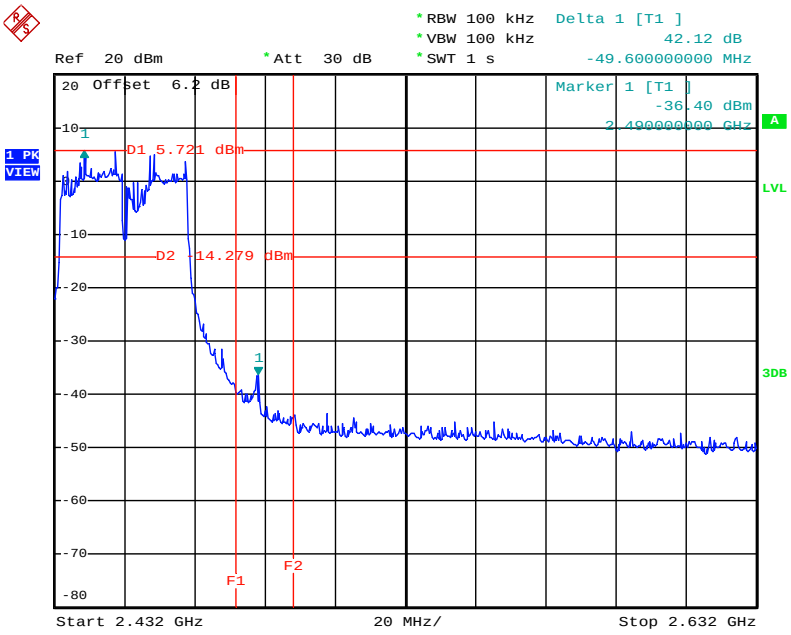
Date: 12.AUG.2010 03:06:40

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2422 MHz



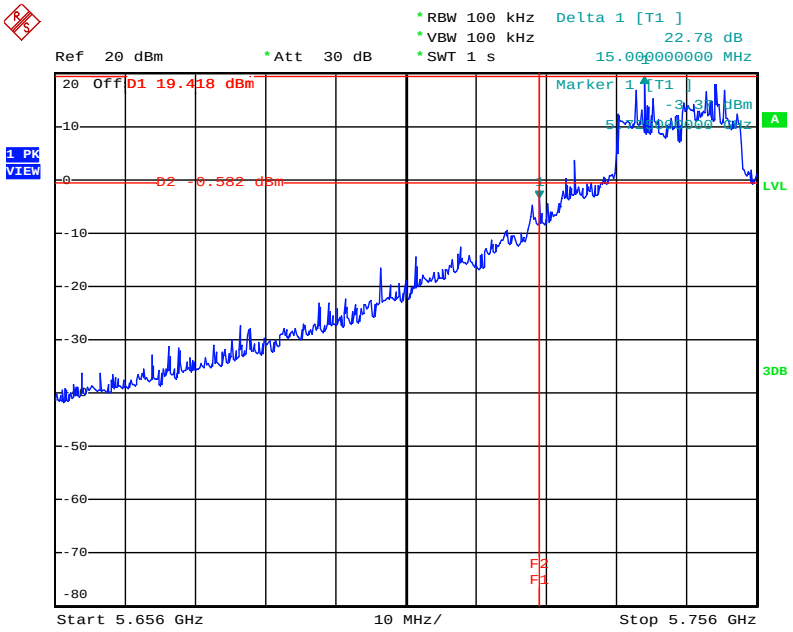
Date: 12.AUG.2010 03:13:01

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



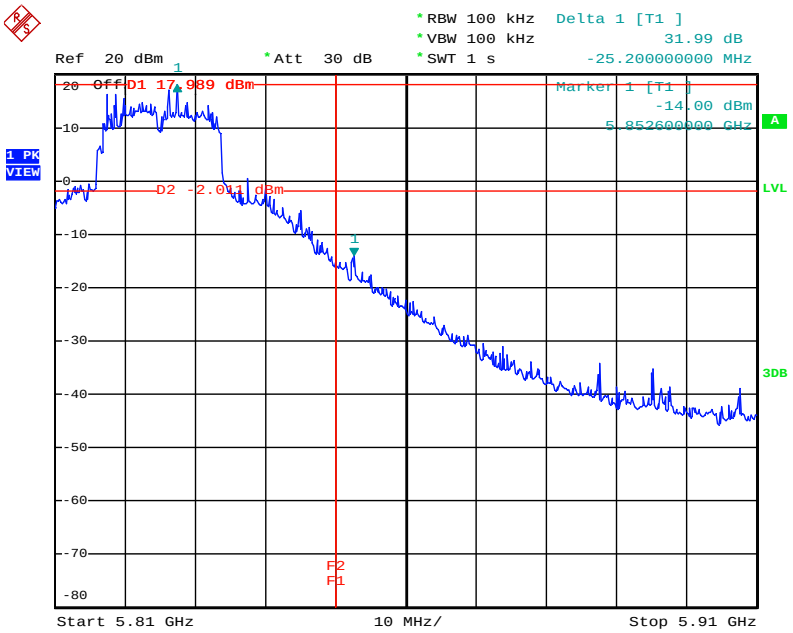
Date: 12.AUG.2010 03:08:57

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5745 MHz



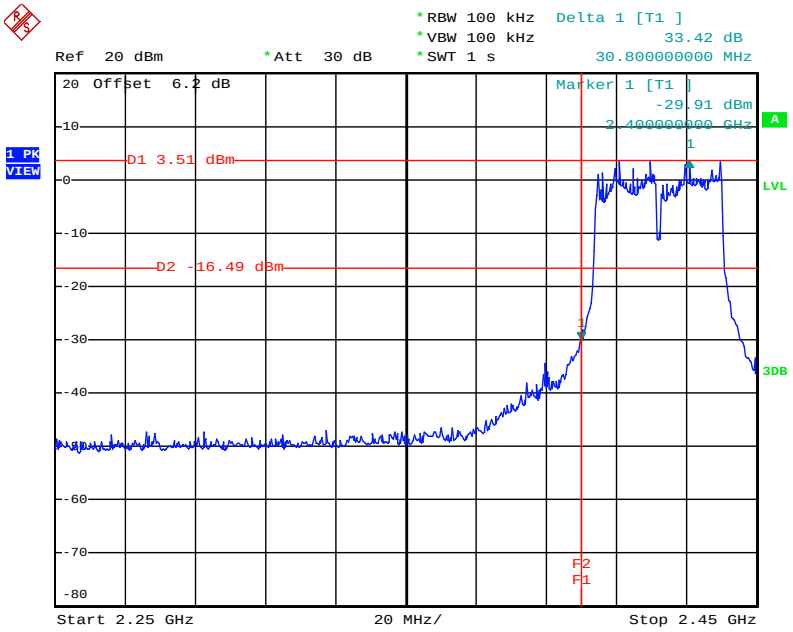
Date: 12.AUG.2010 23:16:02

High Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5825 MHz



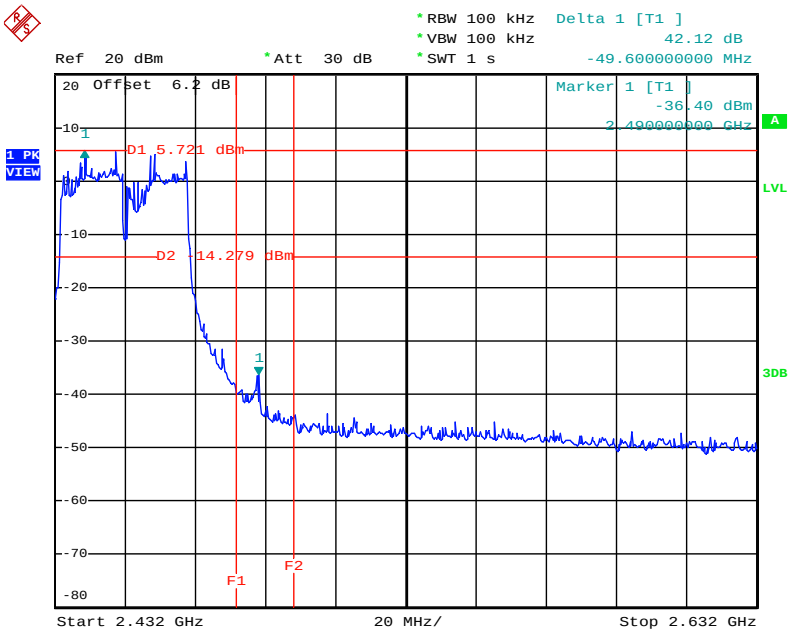
Date: 12.AUG.2010 23:12:02

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5755 MHz



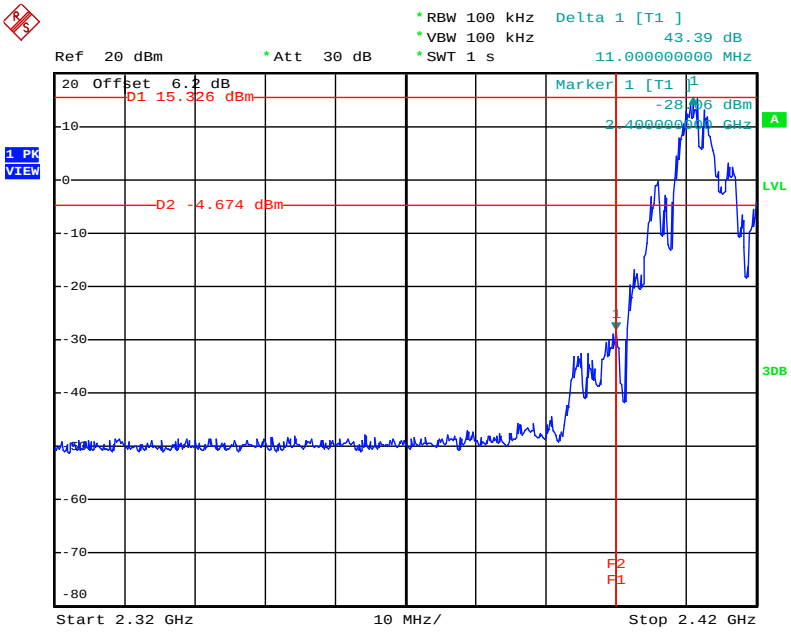
Date: 12.AUG.2010 03:13:01

High Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5795 MHz



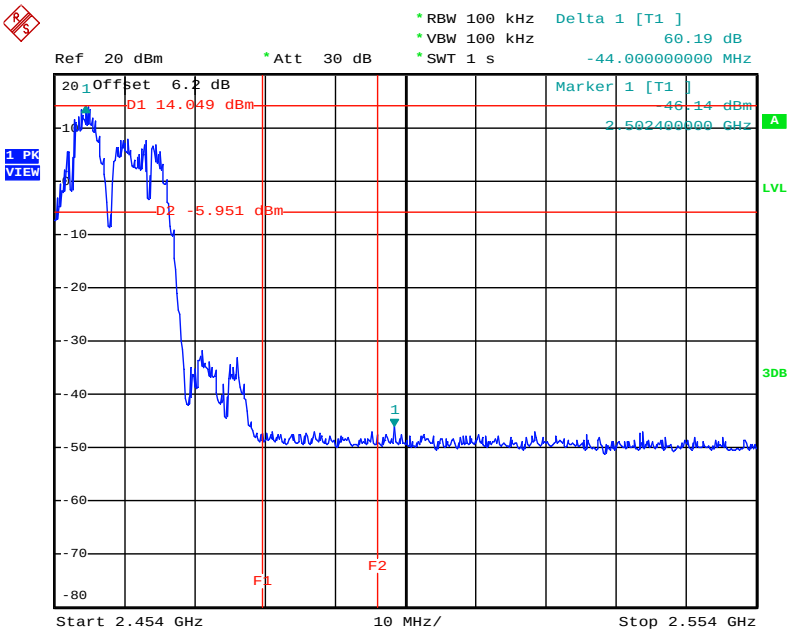
Date: 12.AUG.2010 03:08:57

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



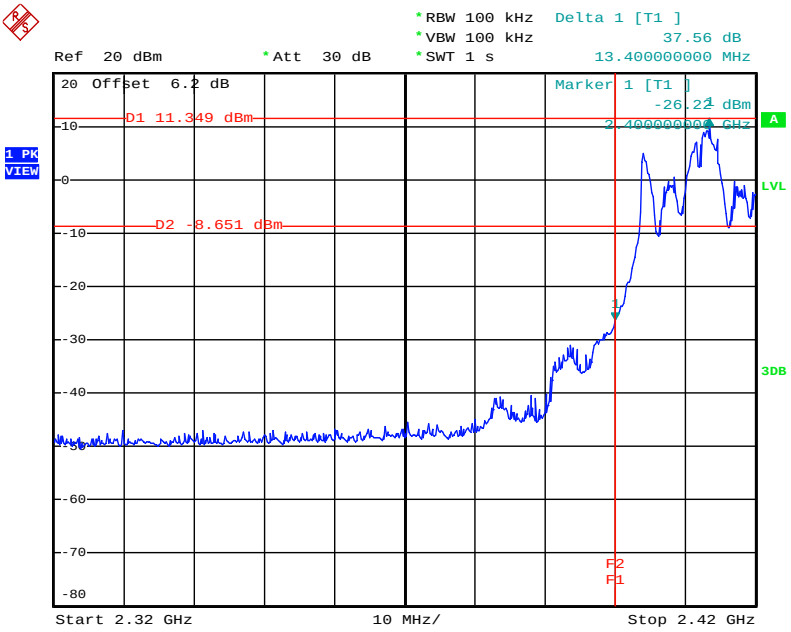
Date: 12.AUG.2010 03:00:17

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



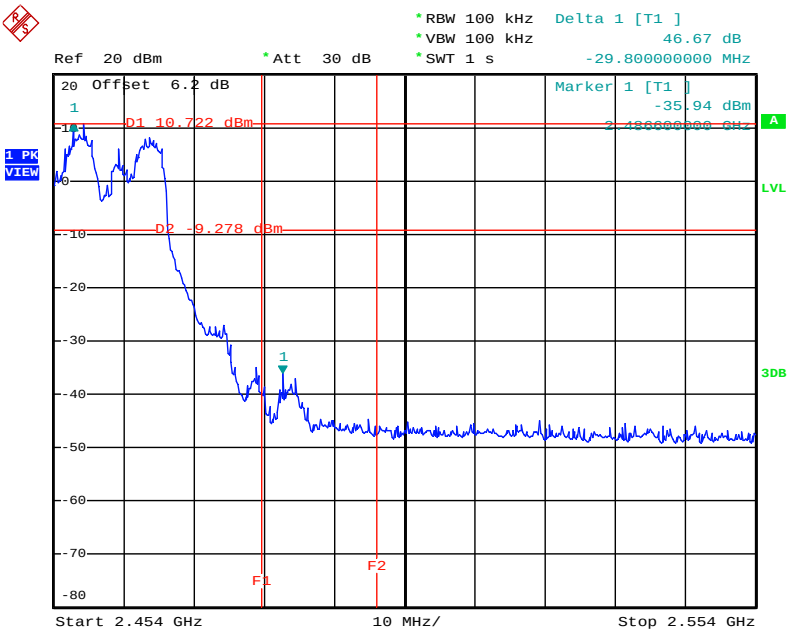
Date: 12.AUG.2010 02:55:31

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



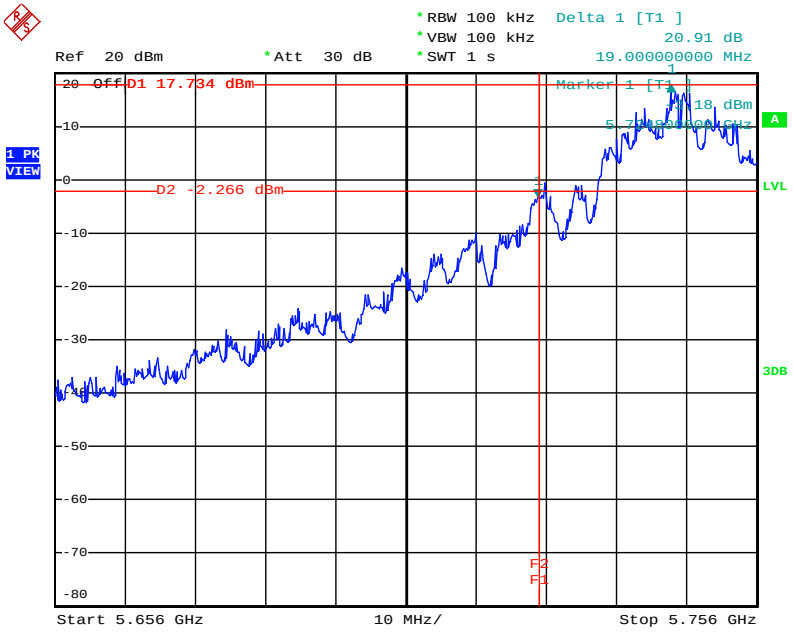
Date: 12.AUG.2010 02:49:26

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



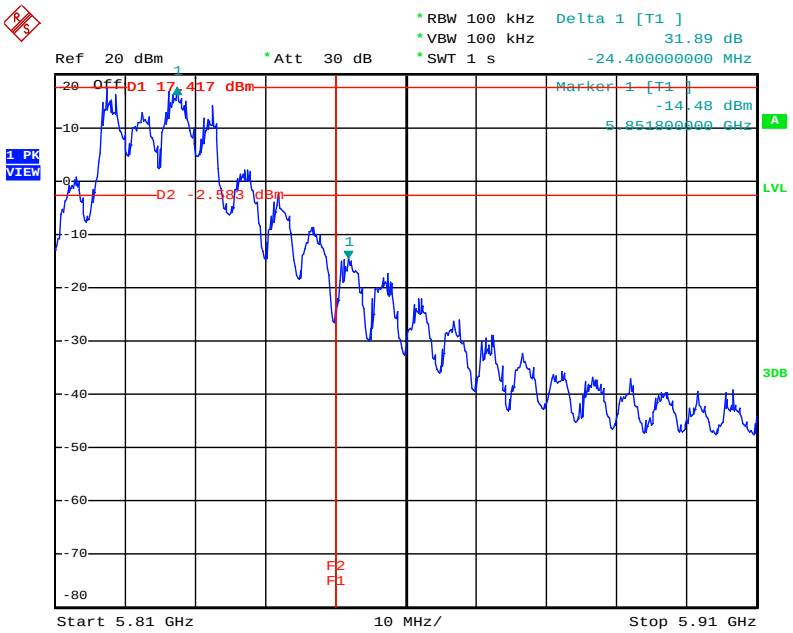
Date: 12.AUG.2010 02:53:23

Low Band Edge Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 12.AUG.2010 23:01:39

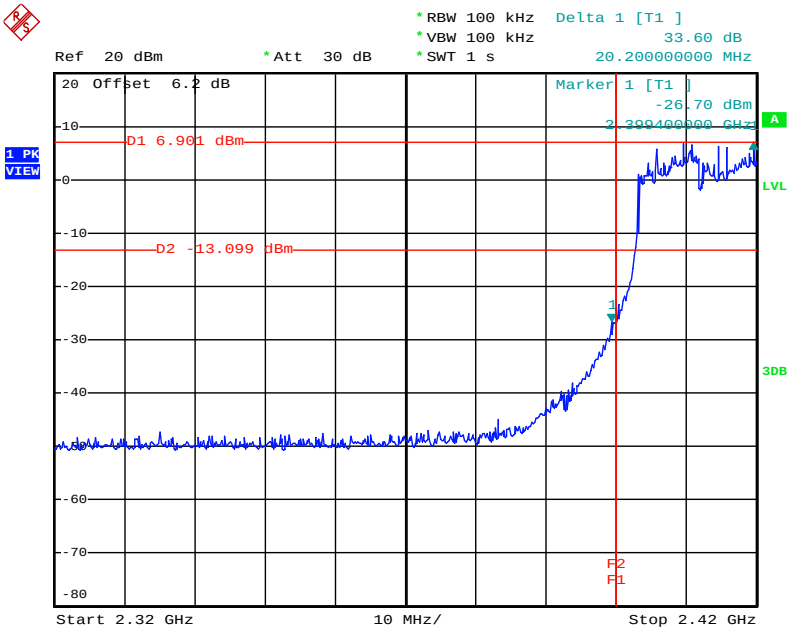
High Band Edge Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 12.AUG.2010 23:06:19

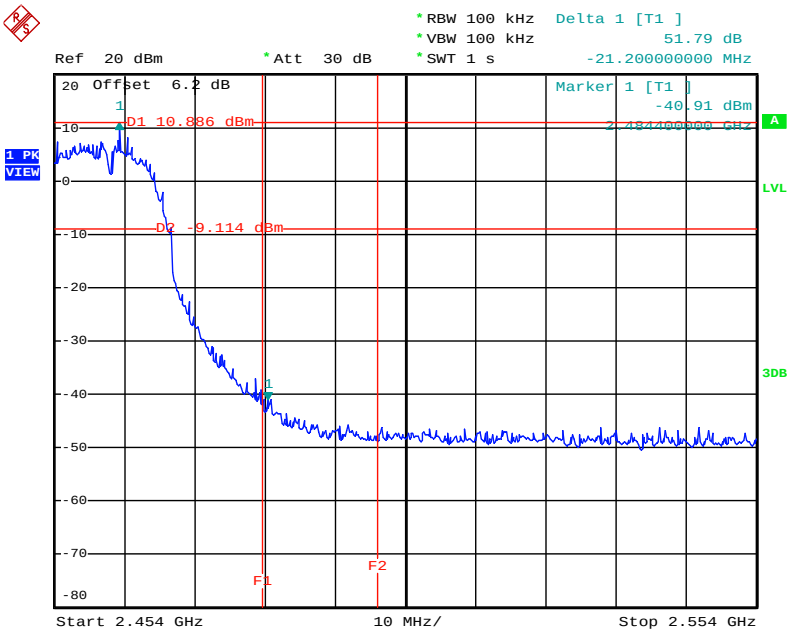
<For Mode 5 (Ant. 5)>:

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



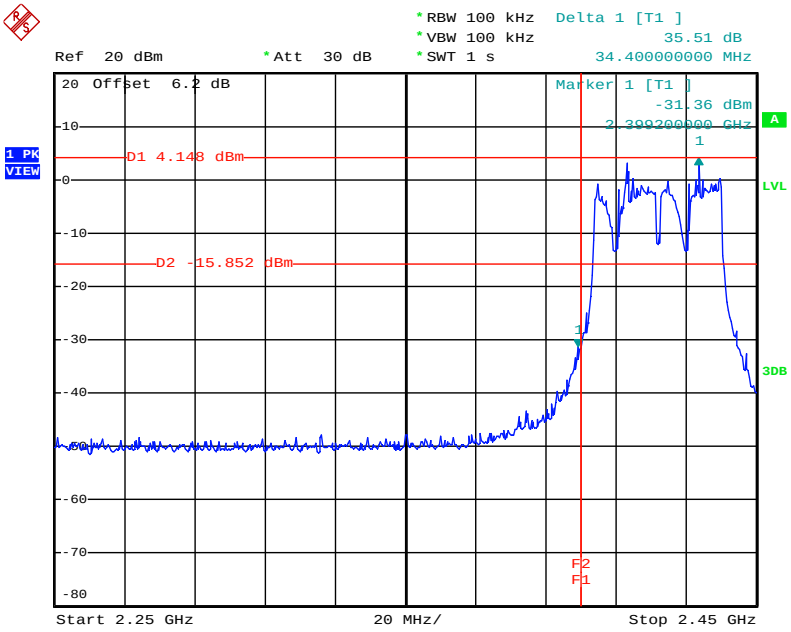
Date: 12.AUG.2010 22:39:14

High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



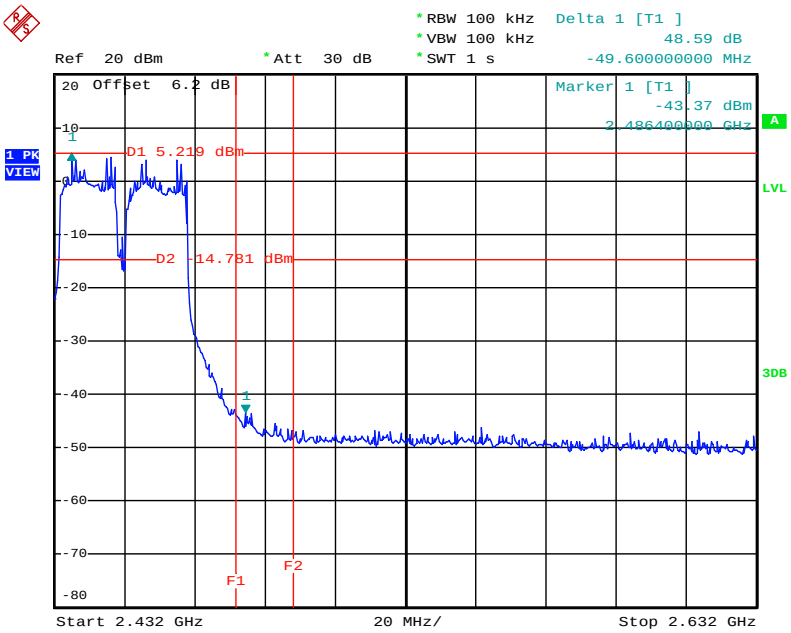
Date: 12.AUG.2010 22:34:36

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2422 MHz



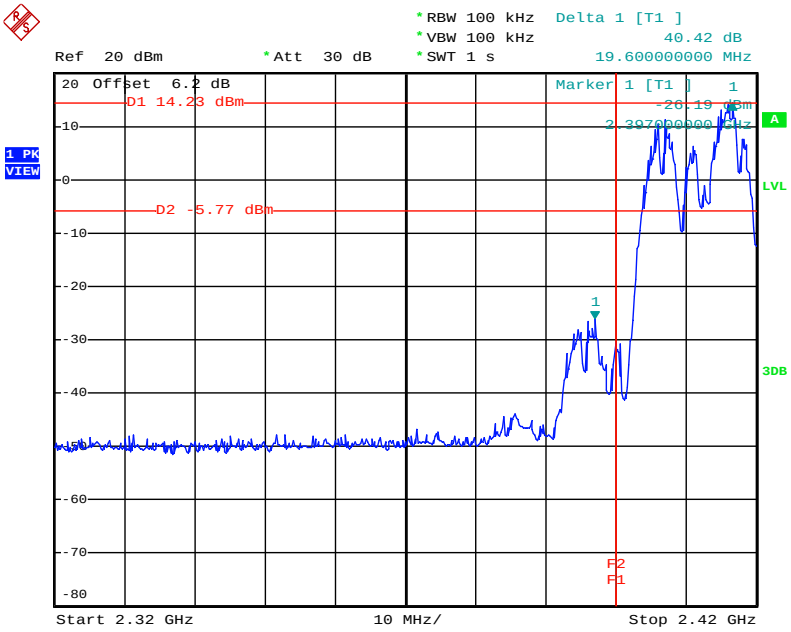
Date: 12.AUG.2010 22:41:39

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



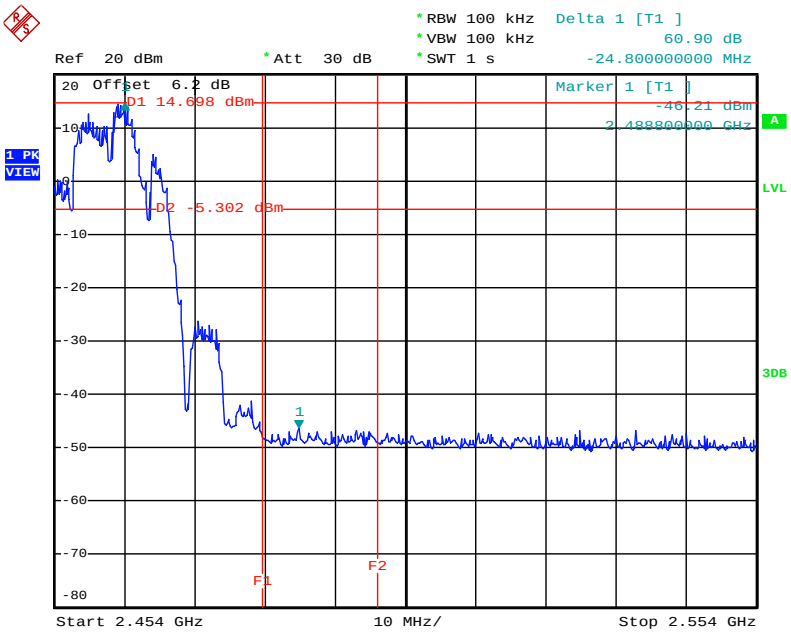
Date: 12.AUG.2010 22:45:28

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



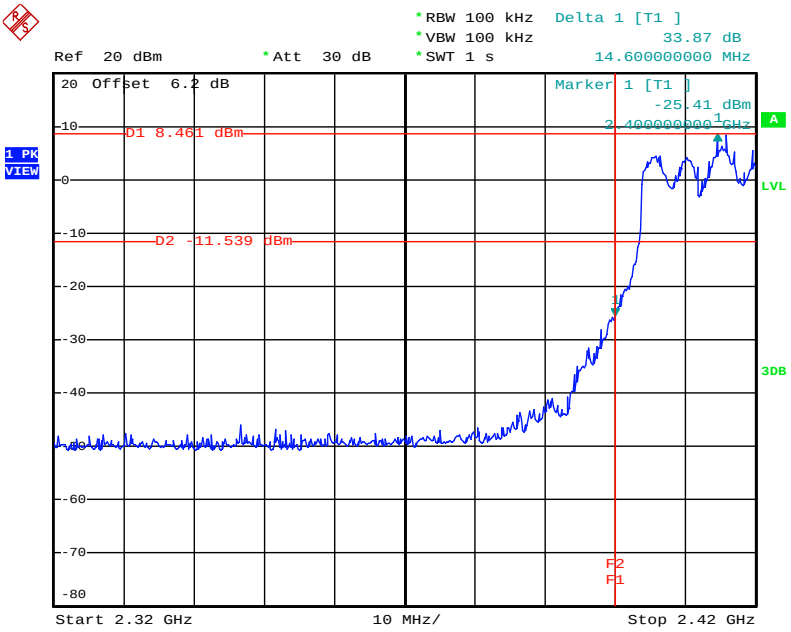
Date: 12.AUG.2010 22:25:49

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



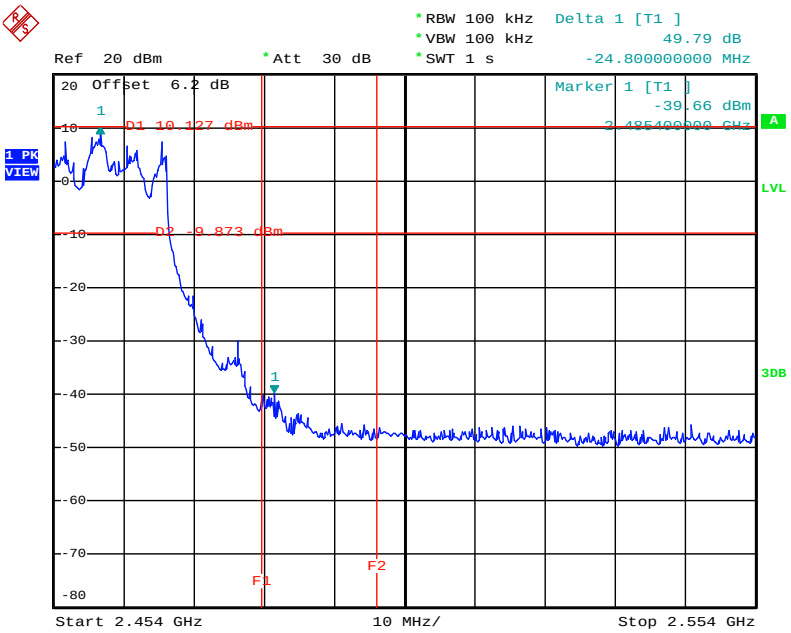
Date: 12.AUG.2010 22:21:53

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 12.AUG.2010 22:27:54

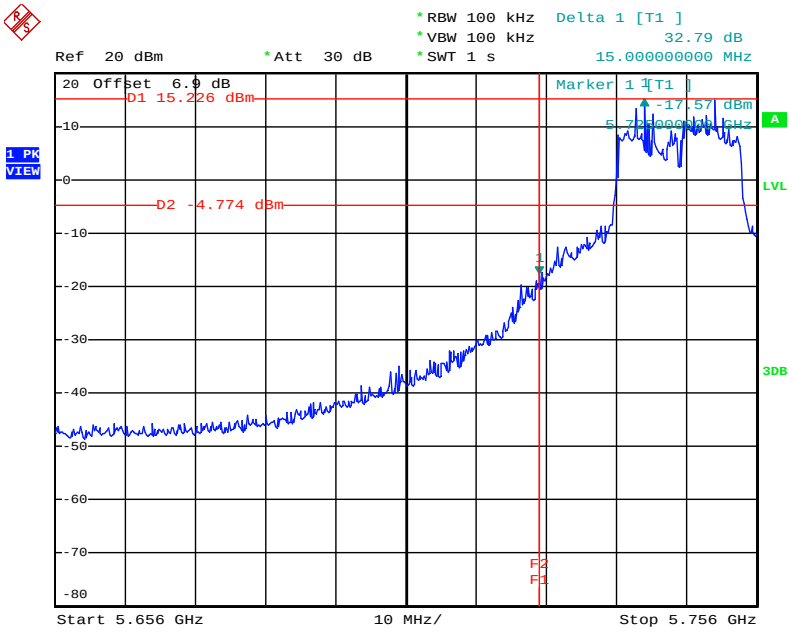
High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 12.AUG.2010 22:31:47

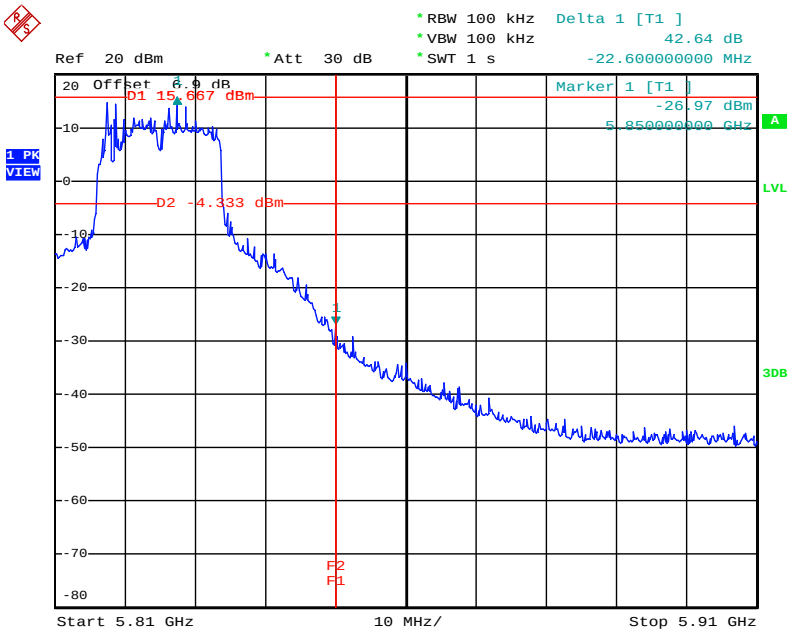
<For Mode 6 (Ant. 6)>:

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5745 MHz



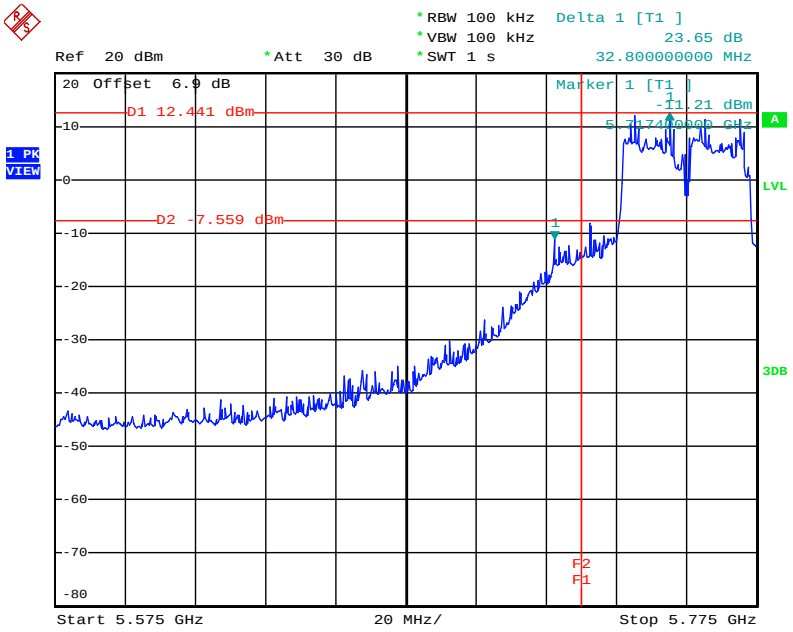
Date: 13.AUG.2010 01:39:16

High Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5825 MHz



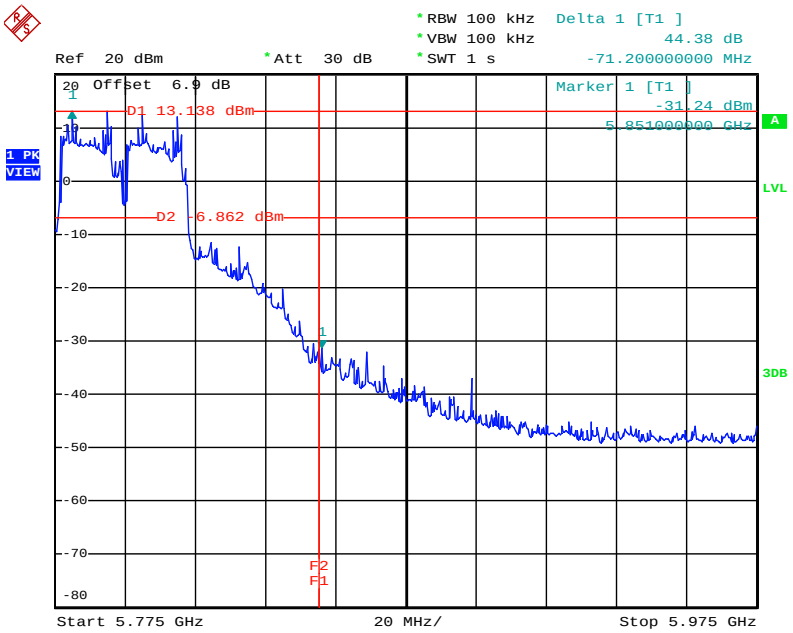
Date: 13.AUG.2010 01:35:24

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5755 MHz



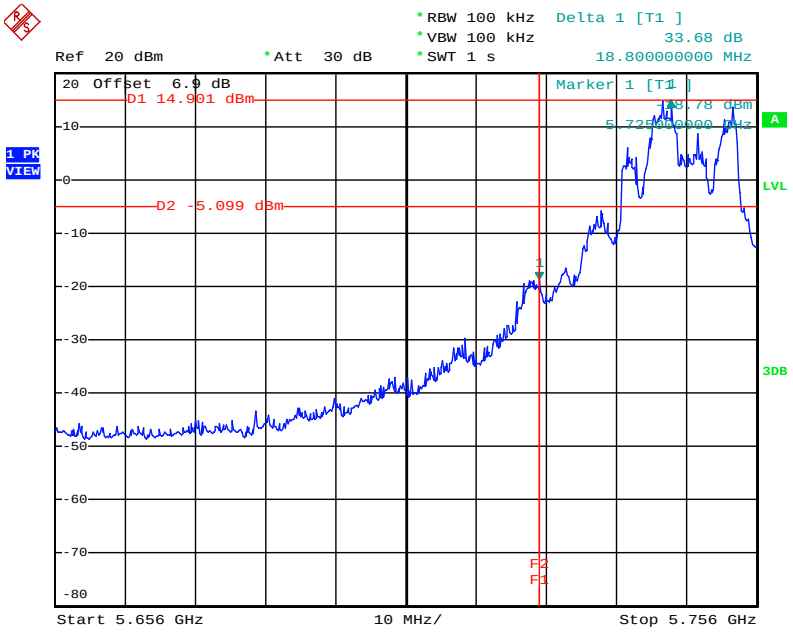
Date: 13.AUG.2010 01:41:22

High Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5795 MHz



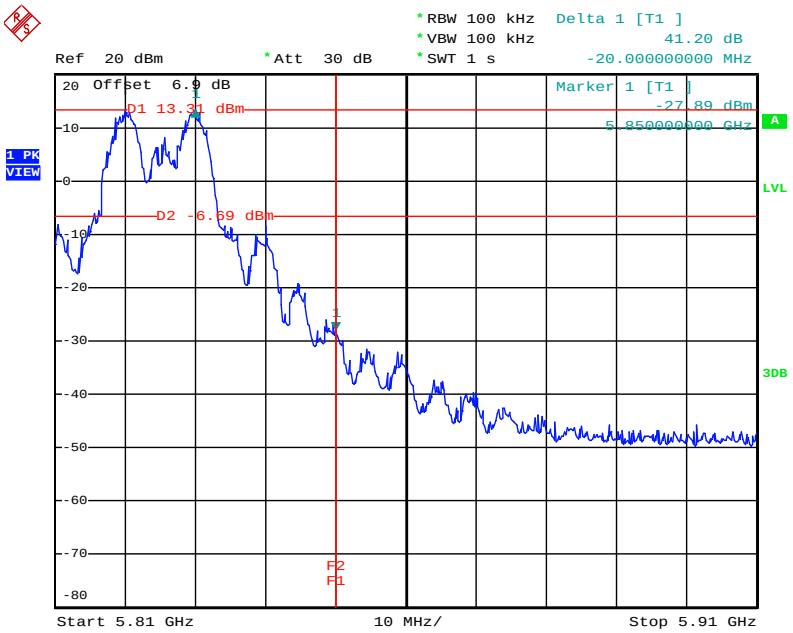
Date: 13.AUG.2010 01:43:19

Low Band Edge Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 13.AUG.2010 01:29:40

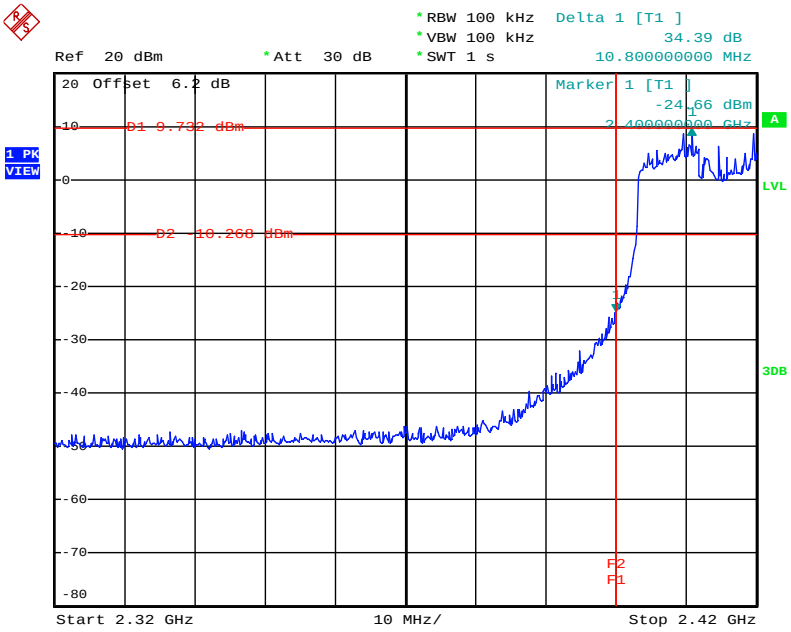
High Band Edge Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 13.AUG.2010 01:33:26

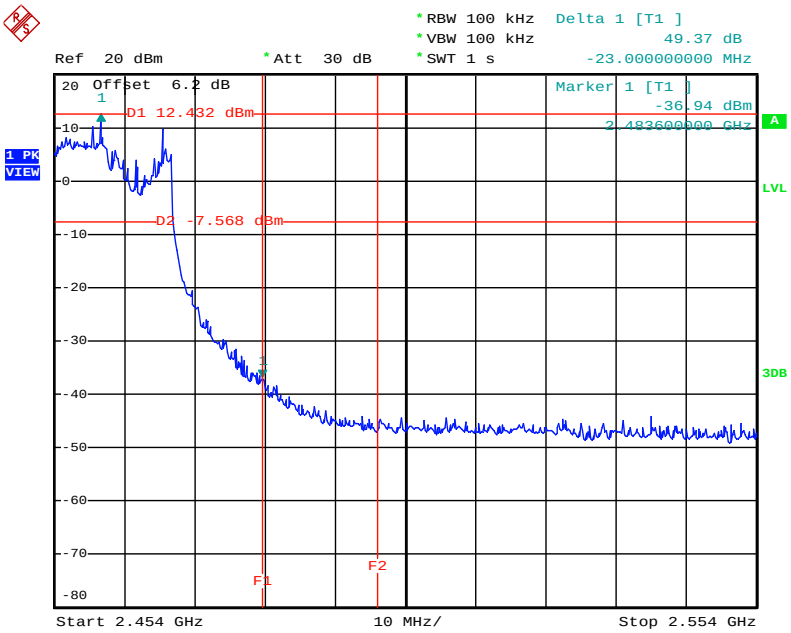
<For Mode 7 (Ant. 7)>:

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



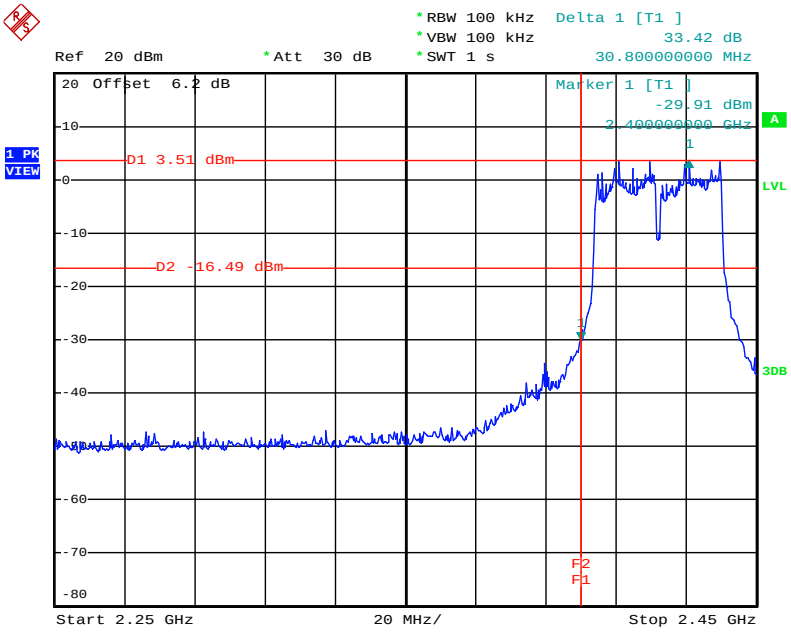
Date: 2.SEP.2010 18:15:39

High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



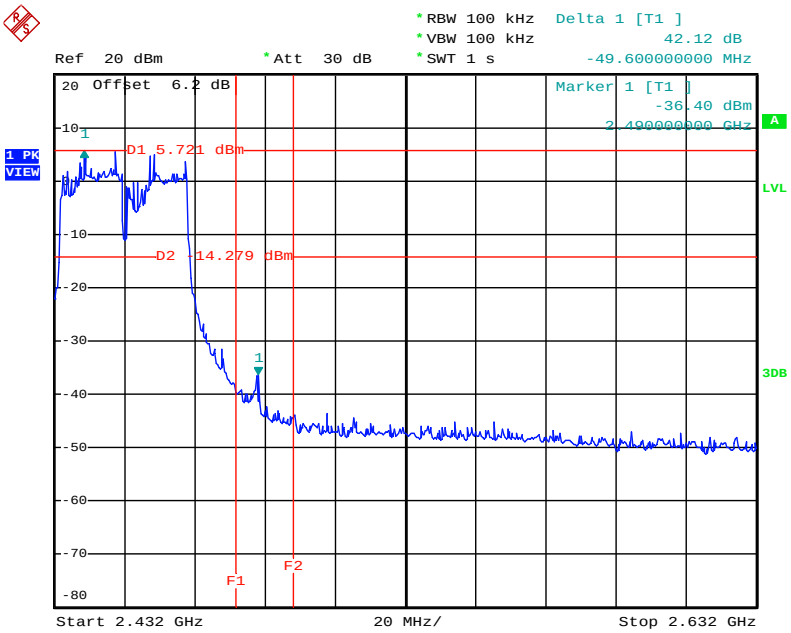
Date: 2.SEP.2010 18:19:58

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2422 MHz



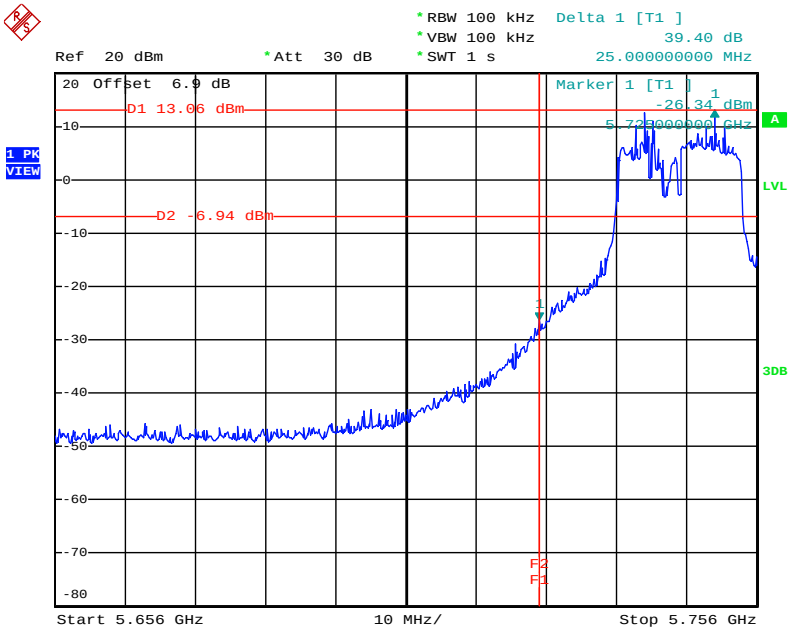
Date: 12.AUG.2010 03:13:01

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



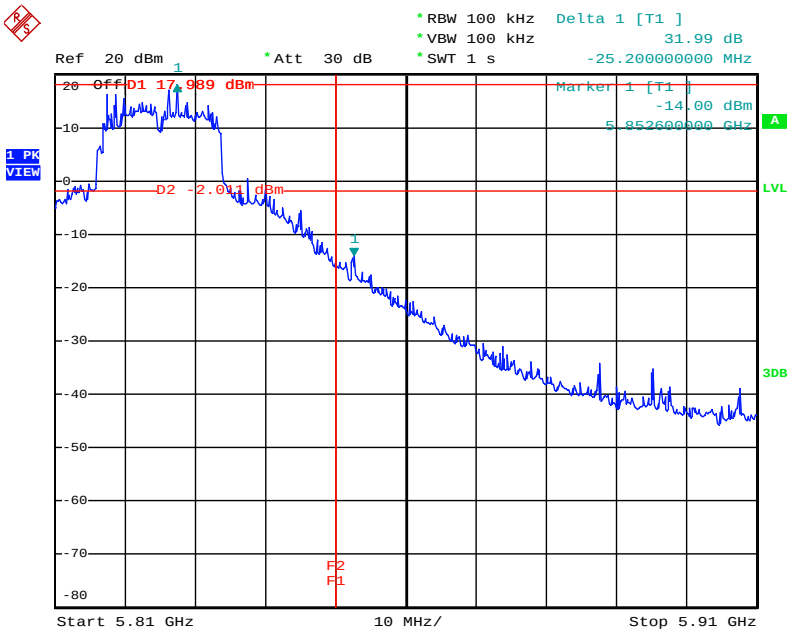
Date: 12.AUG.2010 03:08:57

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5745 MHz



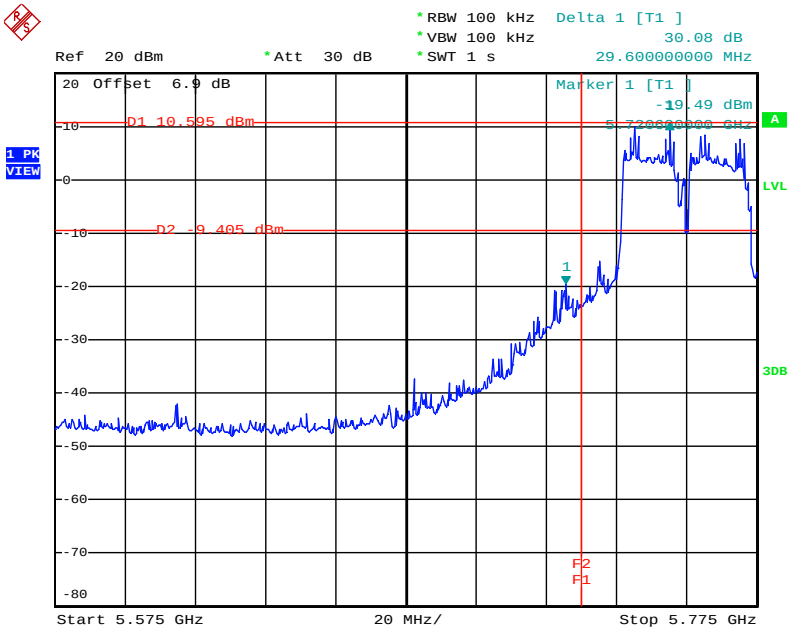
Date: 2.SEP.2010 18:38:58

High Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5825 MHz



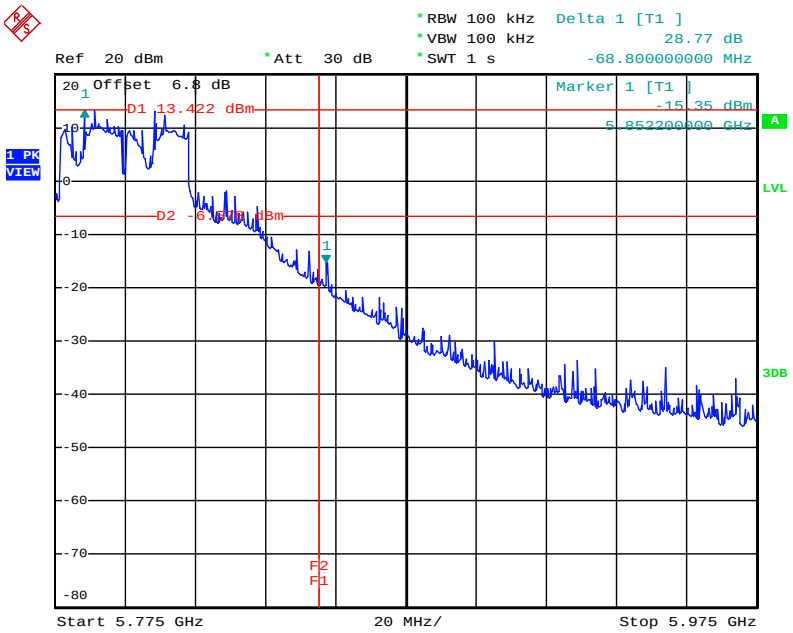
Date: 12.AUG.2010 23:12:02

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5755 MHz



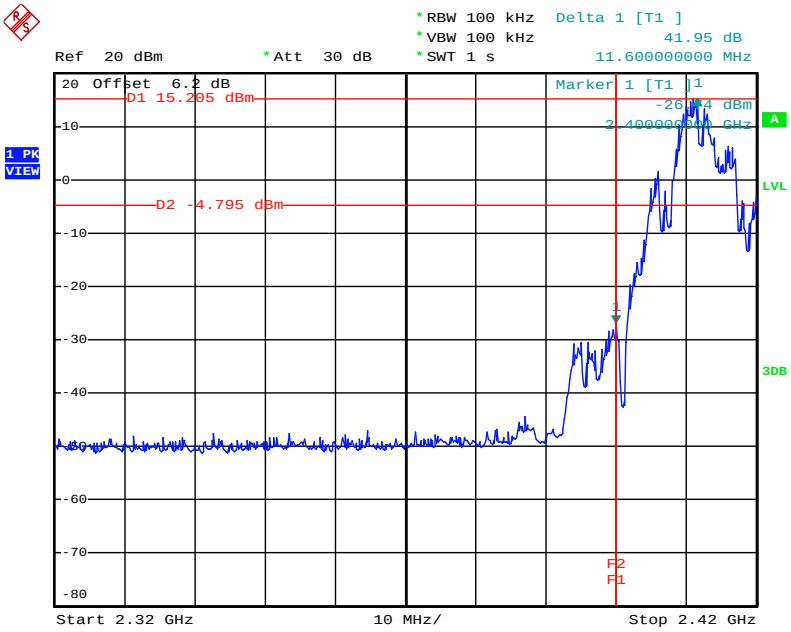
Date: 2.SEP.2010 18:41:28

High Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5795 MHz



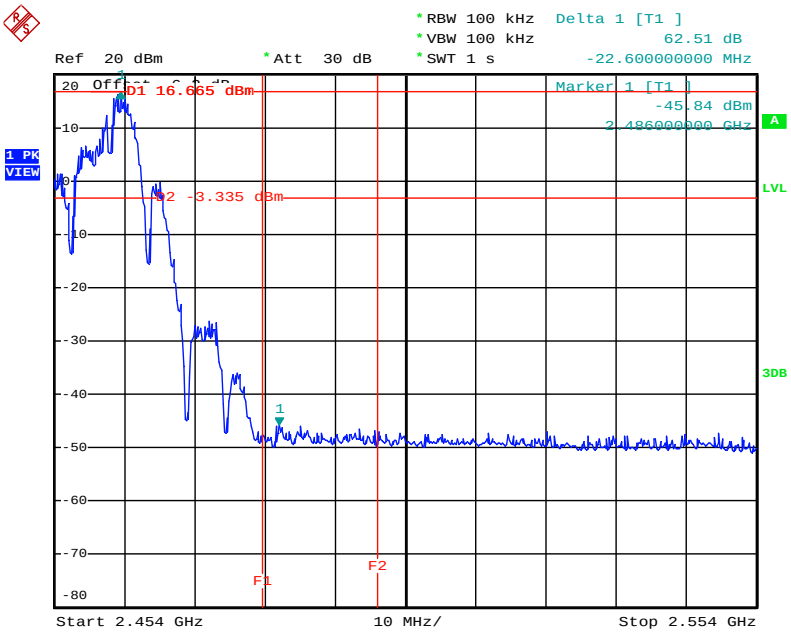
Date: 12.AUG.2010 23:21:10

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



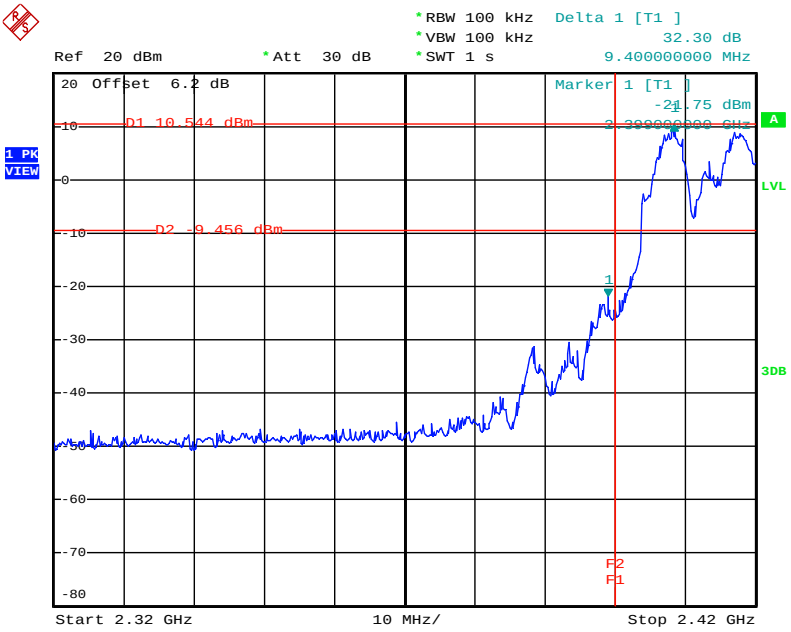
Date: 2.SEP.2010 18:02:57

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



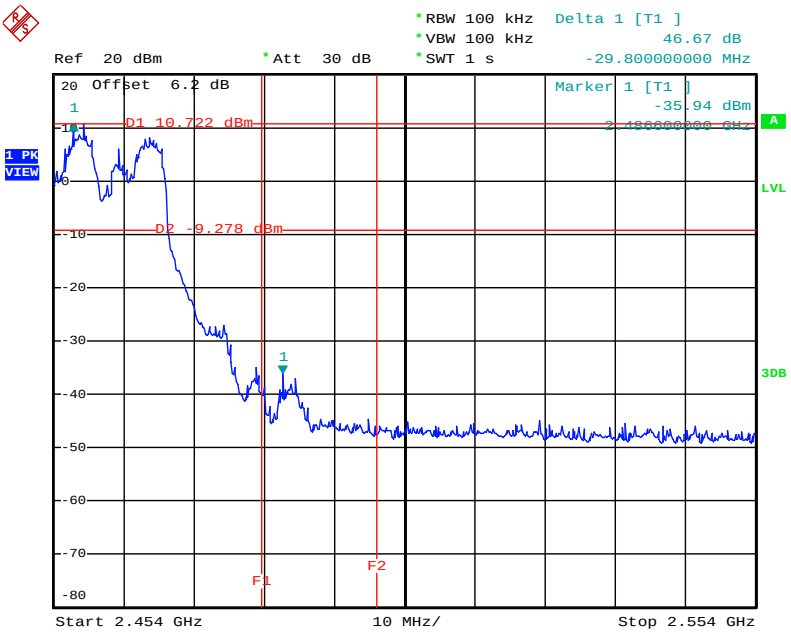
Date: 2.SEP.2010 18:07:54

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



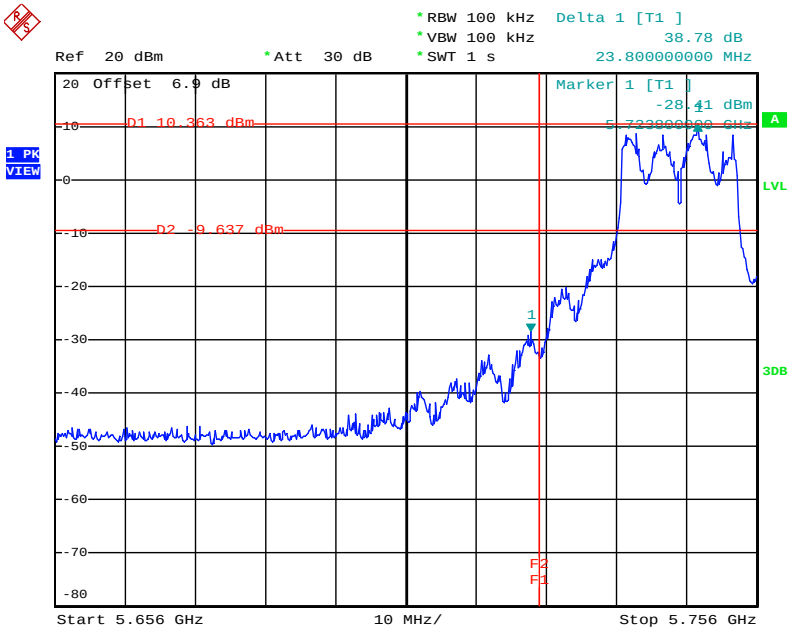
Date: 2.SEP.2010 18:10:54

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



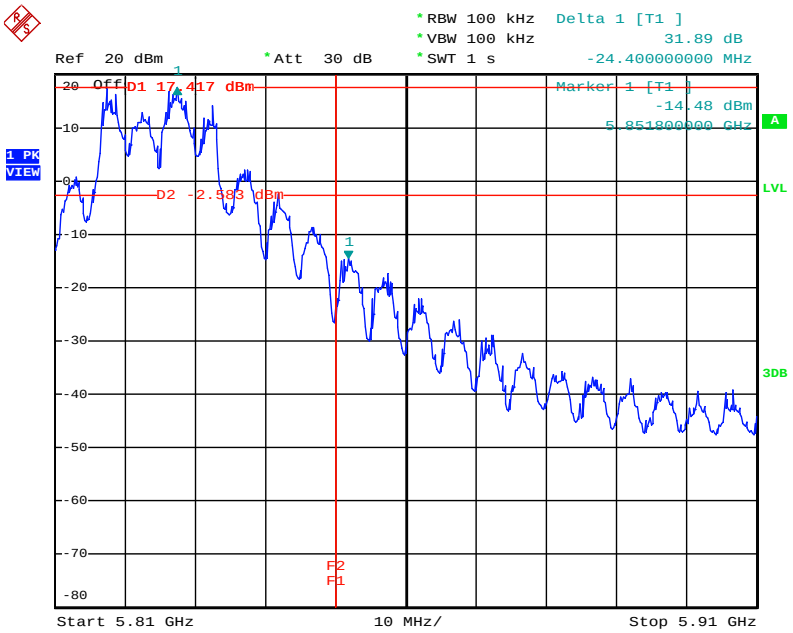
Date: 12.AUG.2010 02:53:23

Low Band Edge Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 2.SEP.2010 18:32:12

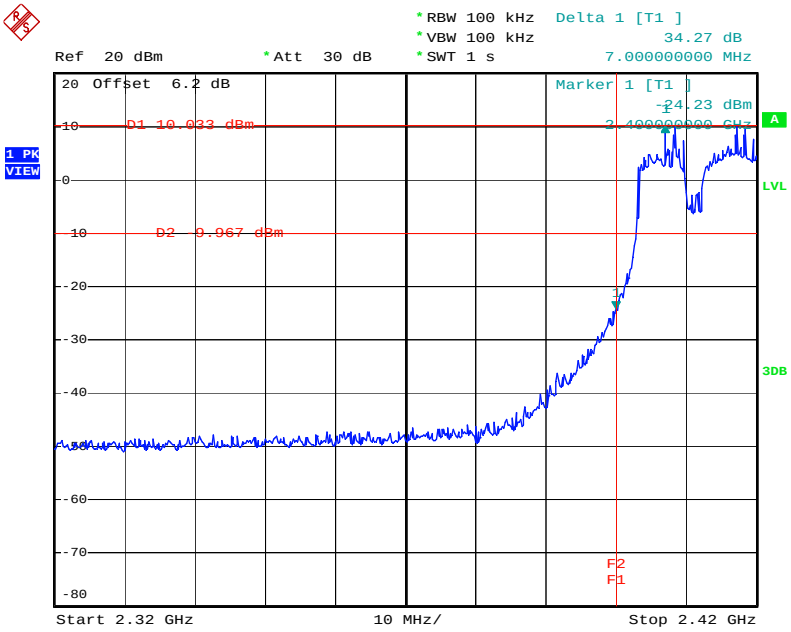
High Band Edge Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 12.AUG.2010 23:06:19

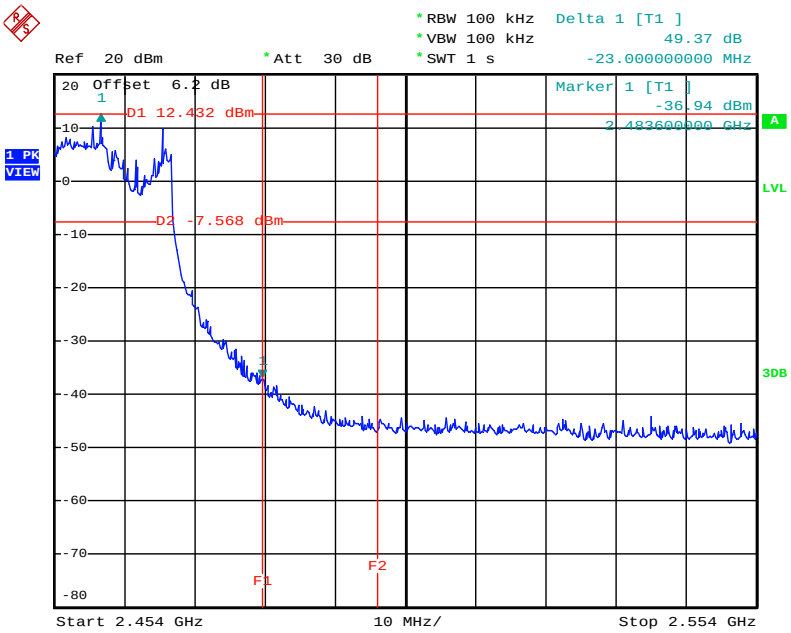
<For Mode 8 (Ant. 8)>:

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



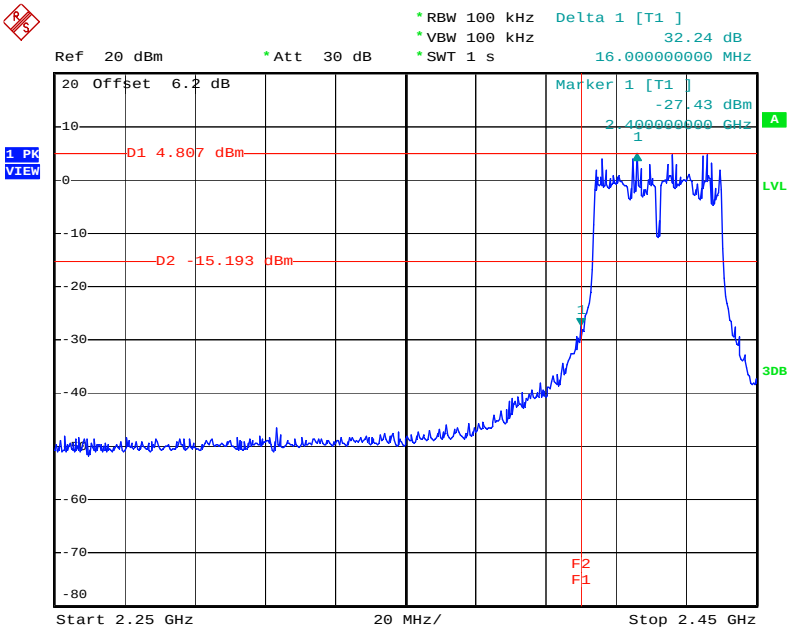
Date: 28.JAN.2011 17:48:09

High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



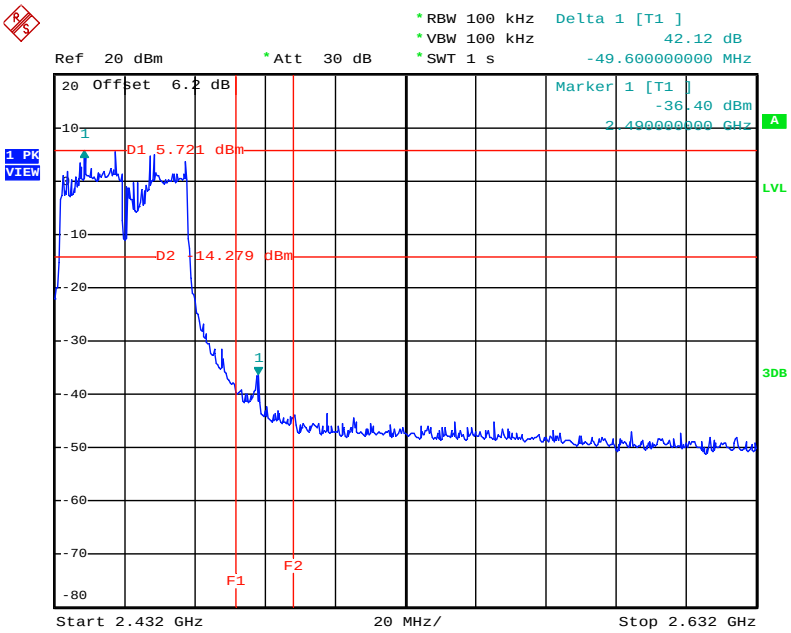
Date: 2.SEP.2010 18:19:58

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2422 MHz



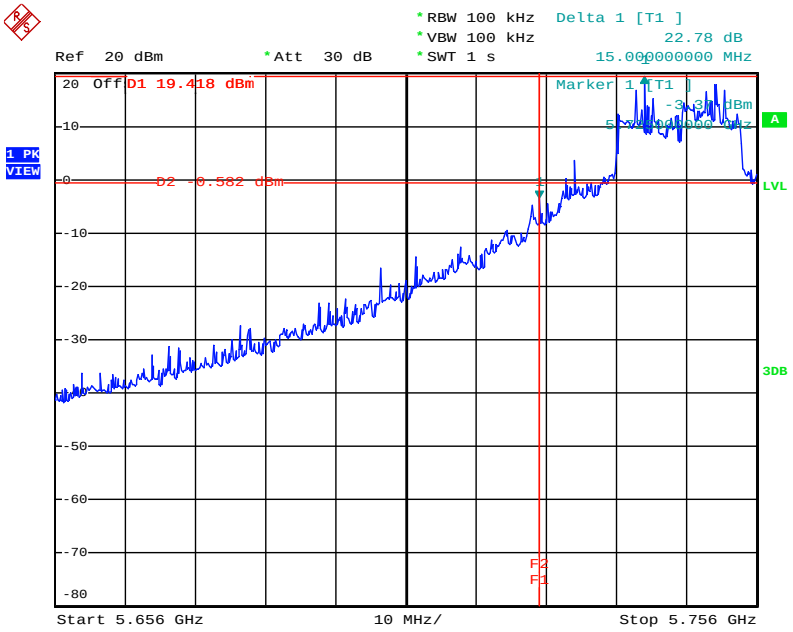
Date: 28.JAN.2011 17:56:14

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



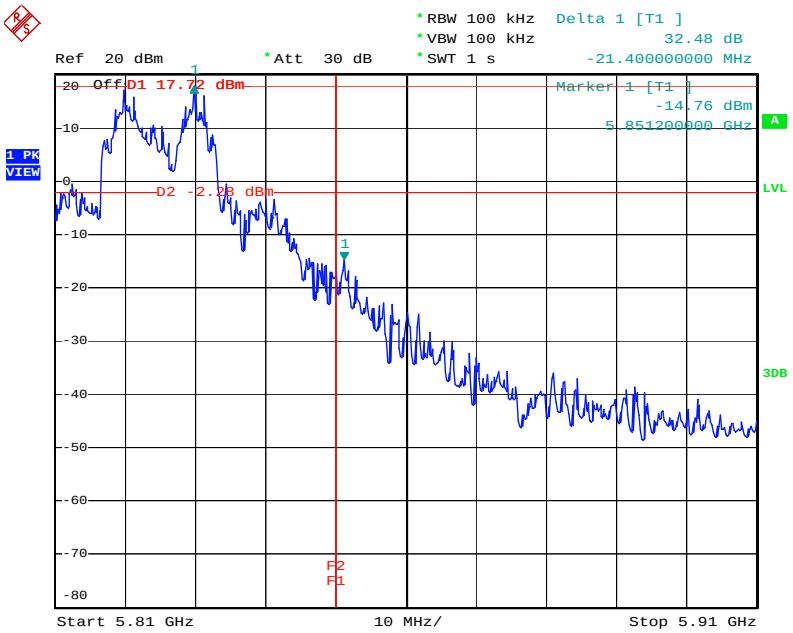
Date: 12.AUG.2010 03:08:57

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5745 MHz



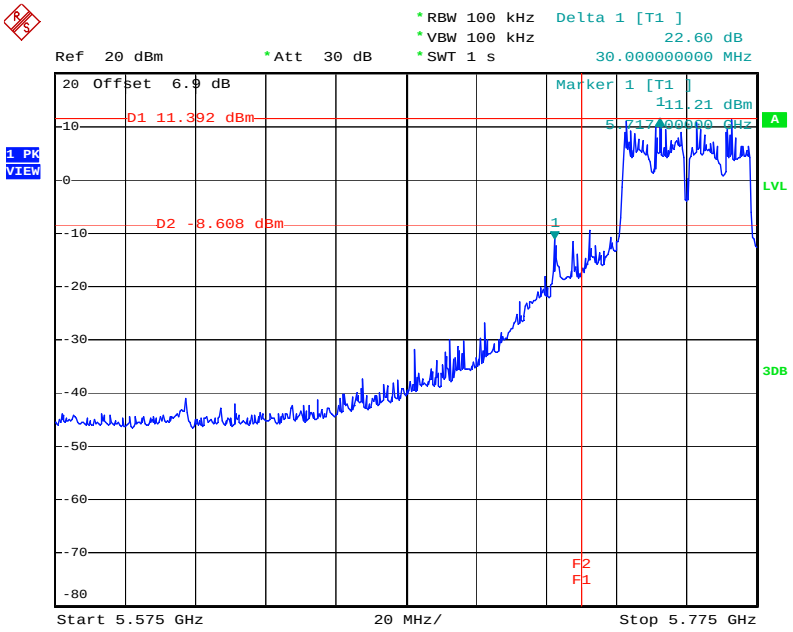
Date: 12.AUG.2010 23:16:02

High Band Edge Plot on Configuration IEEE 802.11an MCS8 20MHz / 5825 MHz



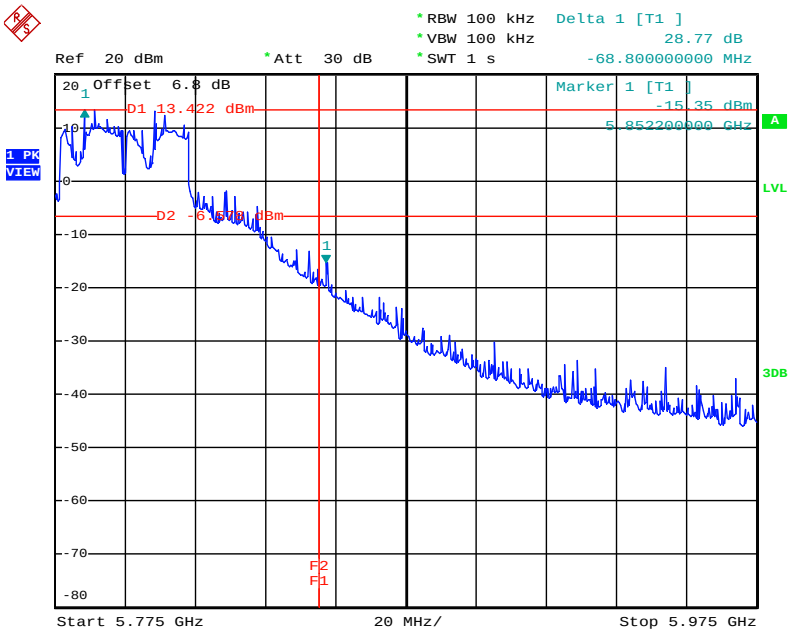
Date: 28.JAN.2011 18:27:28

Low Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5755 MHz



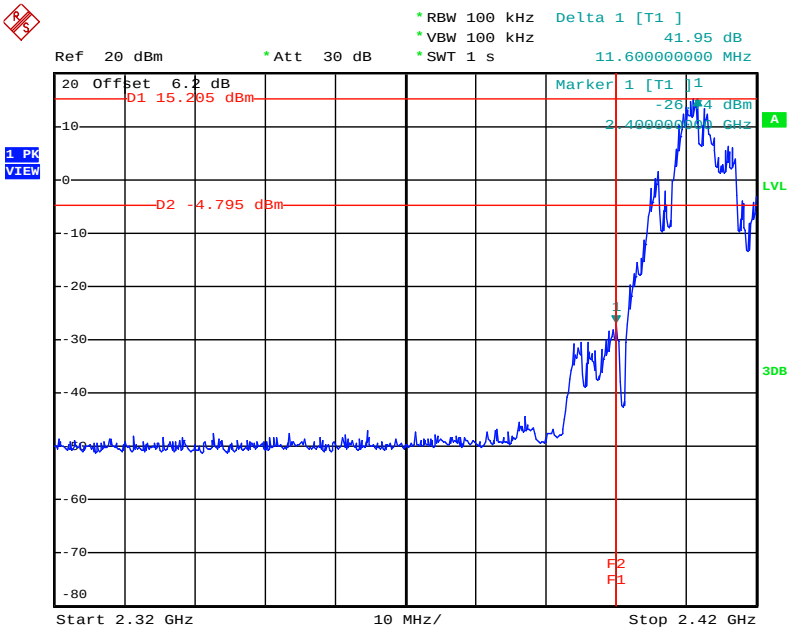
Date: 28.JAN.2011 18:34:07

High Band Edge Plot on Configuration IEEE 802.11an MCS8 40MHz / 5795 MHz



Date: 12.AUG.2010 23:21:10

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz

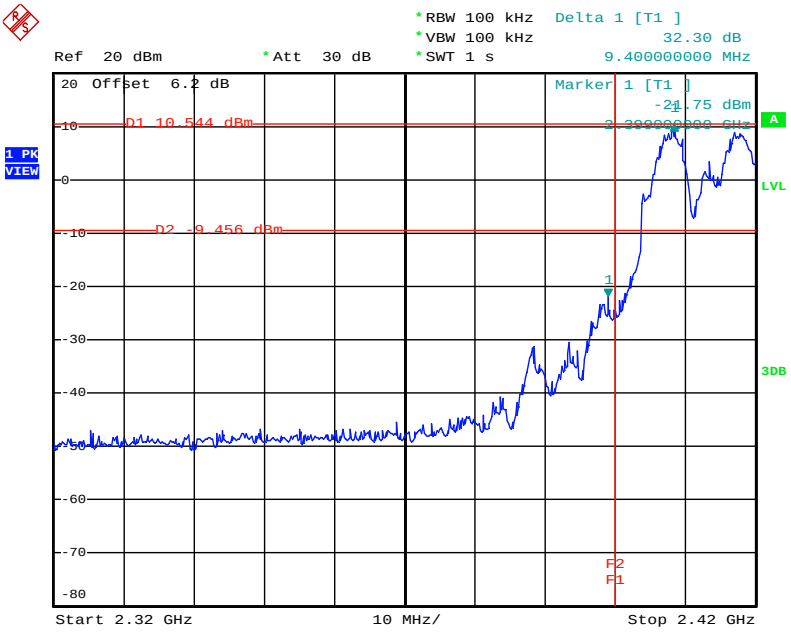


Date: 2.SEP.2010 18:02:57

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz

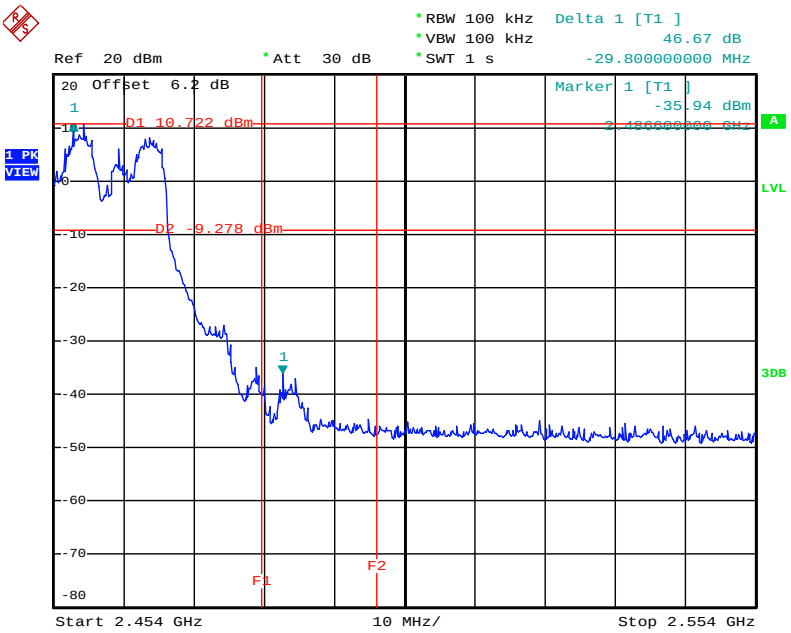
Date: 28.JAN.2011 17:41:38

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



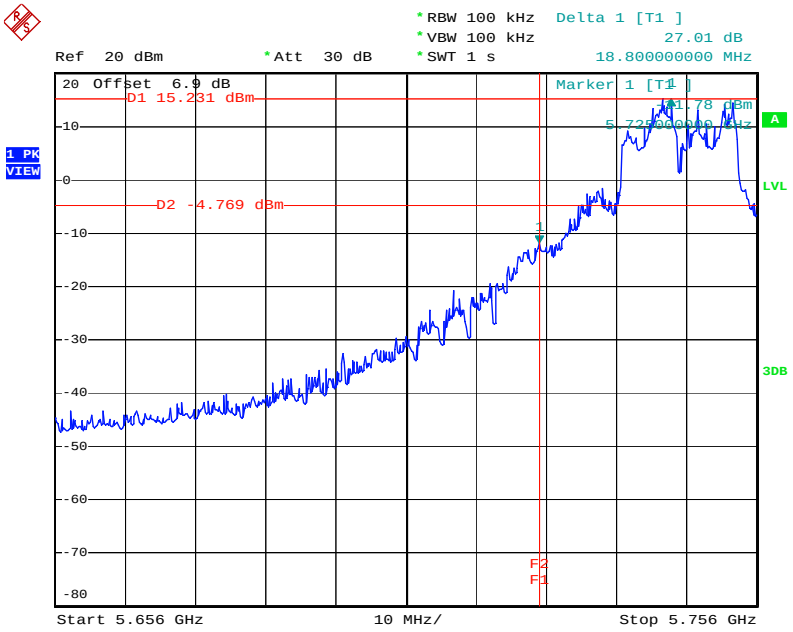
Date: 2.SEP.2010 18:10:54

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



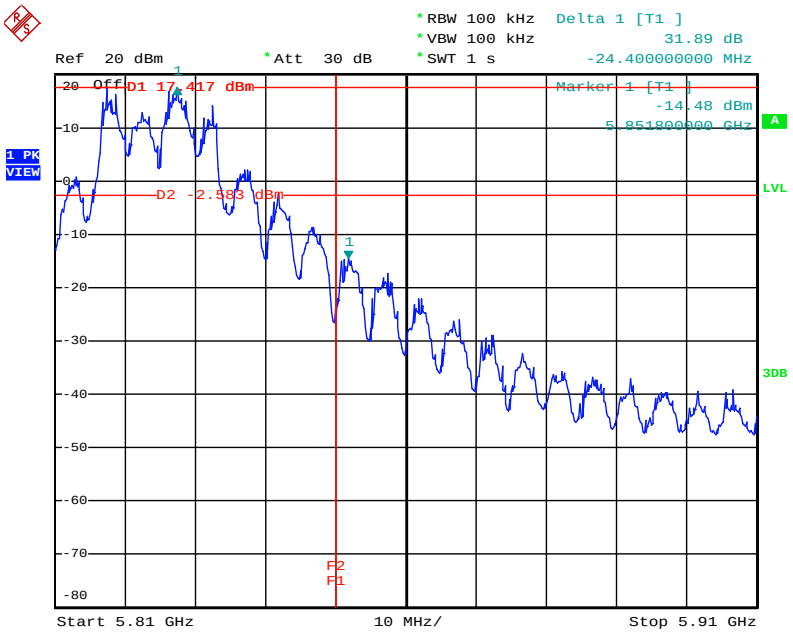
Date: 12.AUG.2010 02:53:23

Low Band Edge Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 28.JAN.2011 18:21:17

High Band Edge Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 12.AUG.2010 23:06:19

4.7. Antenna Requirements

4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Apr. 06, 2010	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99041	9kHz – 30MHz	Mar. 23, 2010	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Apr. 29, 2010	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2010	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 07, 2010	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 24, 2010	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 24, 2011	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jul. 21, 2010	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Apr. 06, 2009*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004	9 kHz - 40 GHz	Oct. 03, 2009	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul. 21, 2009*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Sep. 26, 2009	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 28, 2010	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan. 11, 2010	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan. 11, 2011	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Jan. 05, 2010	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Jan. 05, 2011	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Jan. 05, 2010	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Jan. 05, 2011	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSU26.5	100015	20Hz ~ 26.5GHz	Oct. 29, 2009	Conducted (TH01-HY)
Spectrum Analyzer	R&S	FSU26.5	100015	20Hz ~ 26.5GHz	Oct. 29, 2010	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 28, 2010	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100666	DC ~ 30GHz	Jul. 04, 2010	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 31, 2010	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Jul. 12, 2009*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2010	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Aug. 06, 2010	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 02, 2009	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 02, 2010	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 02, 2009	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 02, 2010	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Feb. 13, 2010	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 25, 2010	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	Dec. 03, 2009	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	Dec. 03, 2010	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	Dec. 03, 2009	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	Dec. 03, 2010	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Note: For "*" Calibration Interval of instruments listed above is two years.

6. TEST LOCATION

SHIJR	ADD	:	6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4Fl., No. 339, Hsin Hu 2nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION

Certificate No. : L1190-091230

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	:	ISO/IEC 17025:2005
Accreditation Number	:	1190
Originally Accredited	:	December 15, 2003
Effective Period	:	January 10, 2010 to January 09, 2013
Accredited Scope	:	Testing Field, see described in the Appendix
Specific Accreditation Program	:	Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangment with Foreign Authorities

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : December 30, 2009

P1, total 22 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix