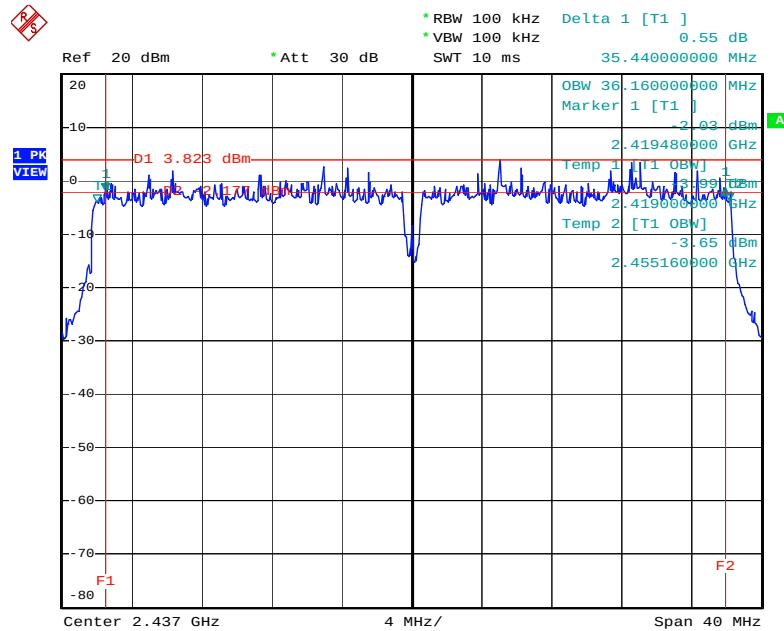
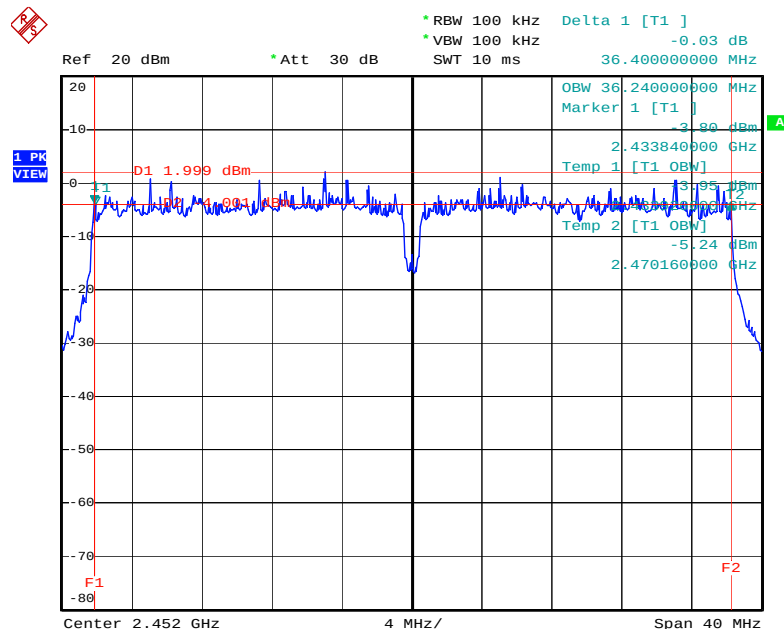


6 dB Bandwidth Plot on Configuration Draft n MCS8 40MHz Ant. 1 + Ant. 2 / 2437 MHz



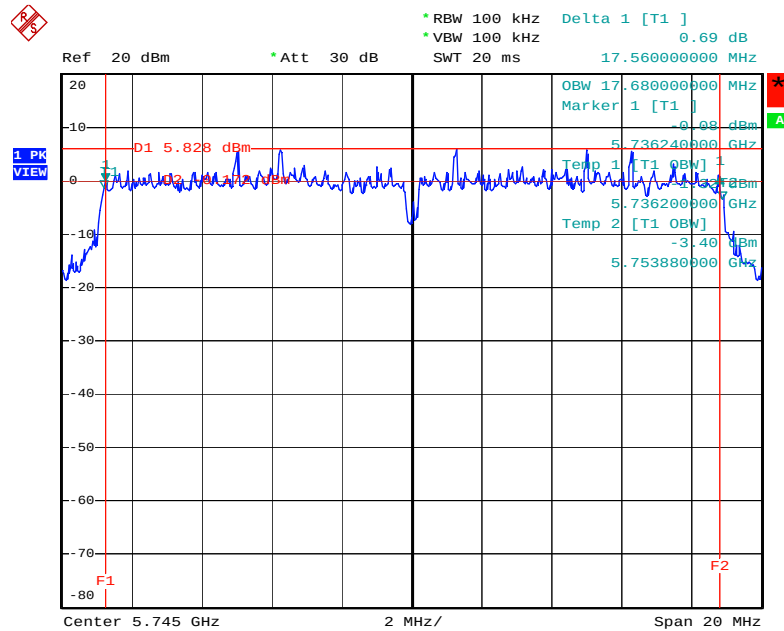
Date: 12.AUG.2009 11:17:19

6 dB Bandwidth Plot on Configuration Draft n MCS8 40MHz Ant. 1 + Ant. 2 / 2452 MHz



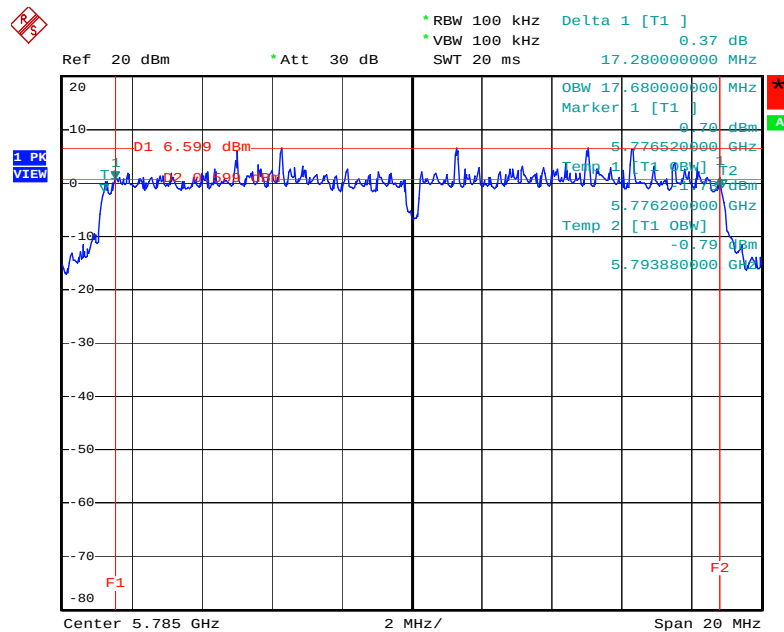
Date: 12.AUG.2009 11:28:47

6 dB Bandwidth Plot on Configuration 11a Draft n MCS8 20MHz Ant. 1 + Ant. 2 / 5745 MHz



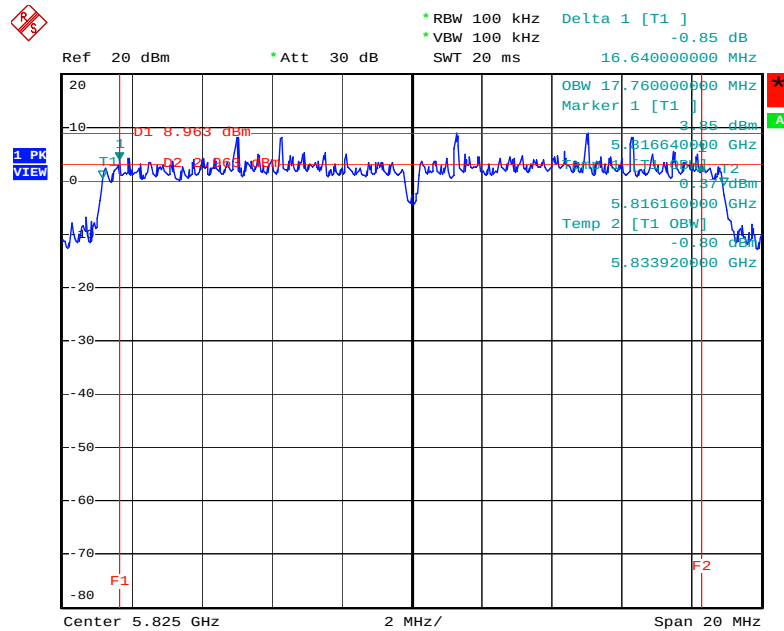
Date: 10.AUG.2009 16:14:12

6 dB Bandwidth Plot on Configuration 11a Draft n MCS8 20MHz Ant. 1 + Ant. 2 / 5785MHz



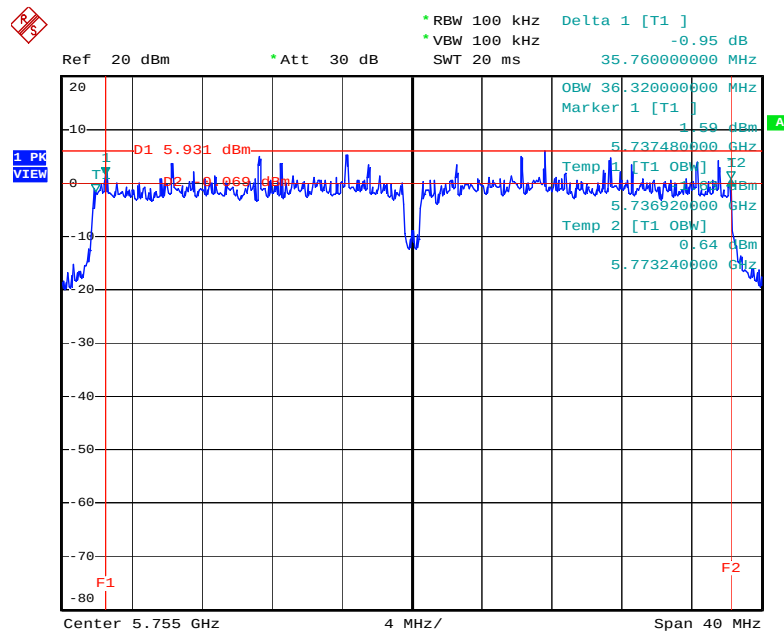
Date: 10.AUG.2009 16:22:50

6 dB Bandwidth Plot on Configuration 11a Draft n MCS8 20MHz Ant. 1 + Ant. 2 / 5825 MHz



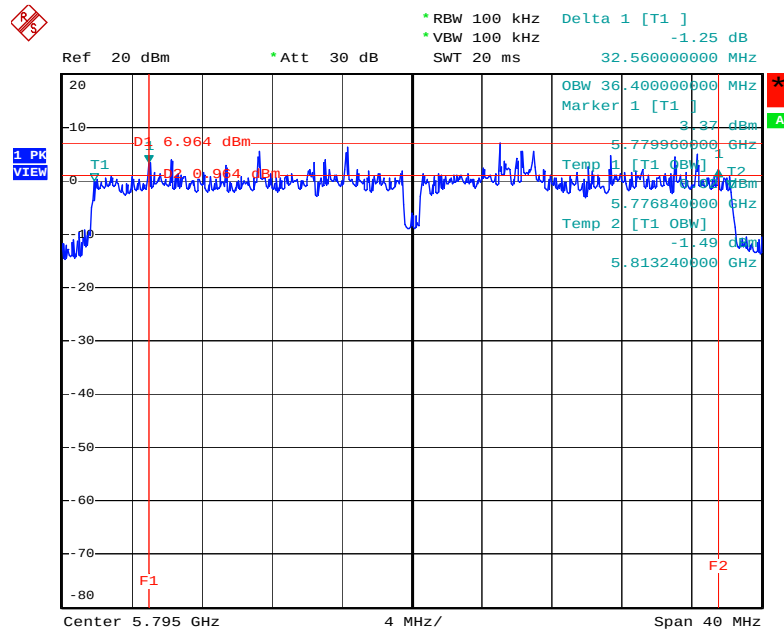
Date: 10.AUG.2009 16:26:41

6 dB Bandwidth Plot on Configuration 11a Draft n MCS8 40MHz Ant. 1 + Ant. 2 / 5755MHz



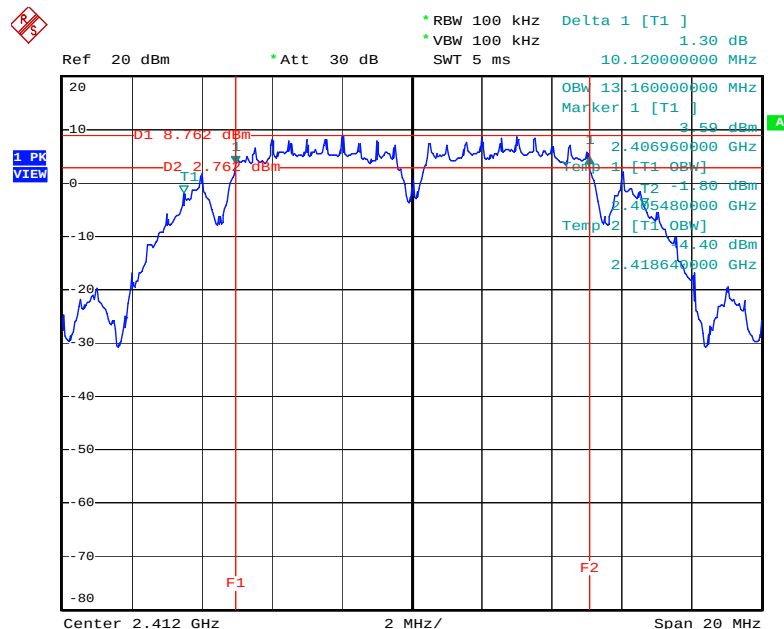
Date: 20.AUG.2009 14:04:48

6 dB Bandwidth Plot on Configuration 11a Draft n MCS8 40MHz Ant. 1 + Ant. 2 / 5795 MHz



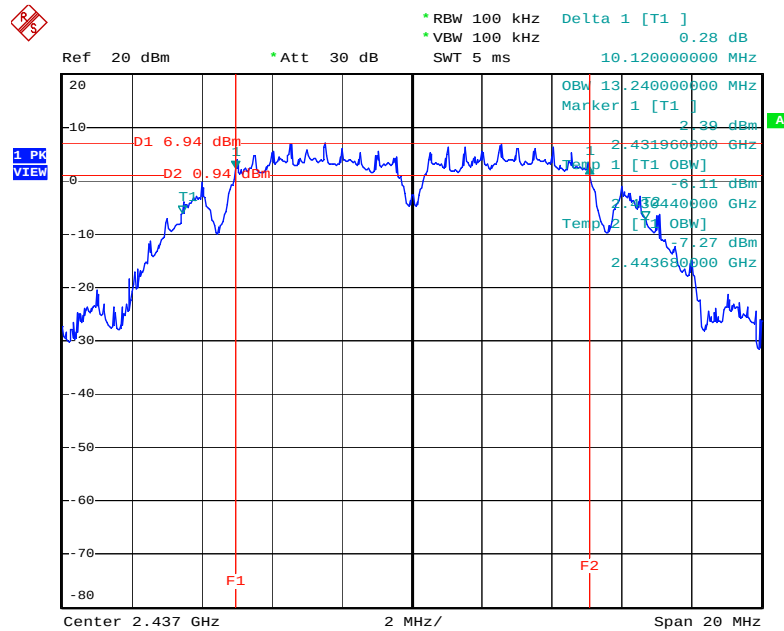
Date: 10.AUG.2009 16:07:15

6 dB Bandwidth Plot on Configuration IEEE 802.11b Ant. 1 / 2412 MHz



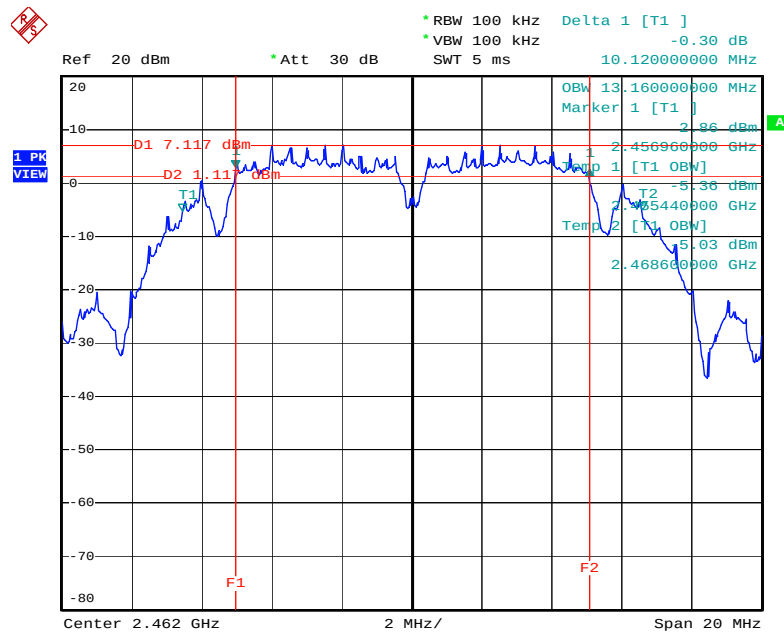
Date: 10.AUG.2009 22:35:56

6 dB Bandwidth Plot on Configuration IEEE 802.11b Ant. 1 / 2437 MHz



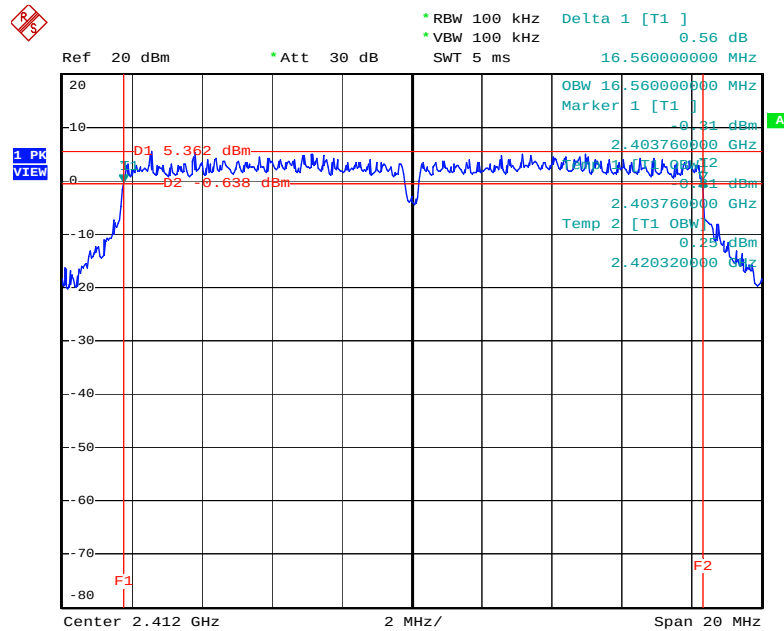
Date: 10.AUG.2009 22:38:20

6 dB Bandwidth Plot on Configuration IEEE 802.11b Ant. 1 / 2462 MHz



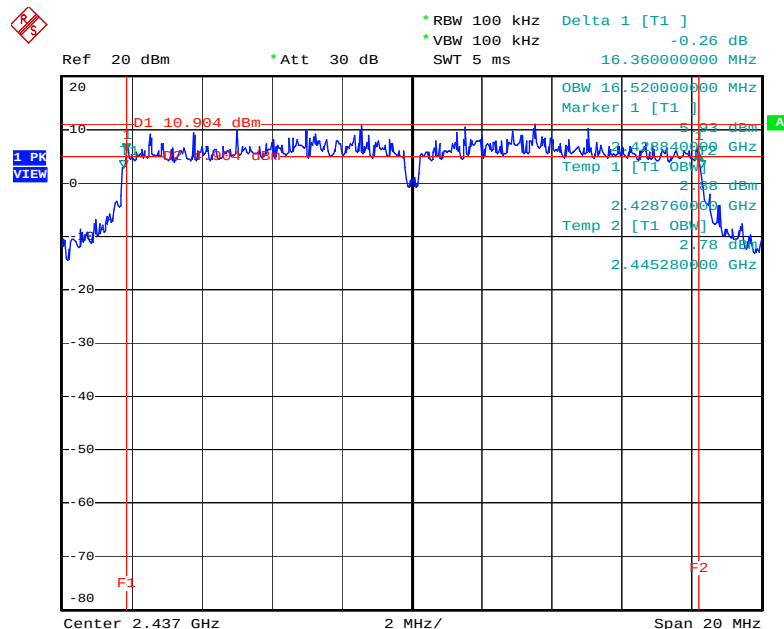
Date: 10.AUG.2009 23:32:03

6 dB Bandwidth Plot on Configuration IEEE 802.11g Ant. 1 / 2412 MHz



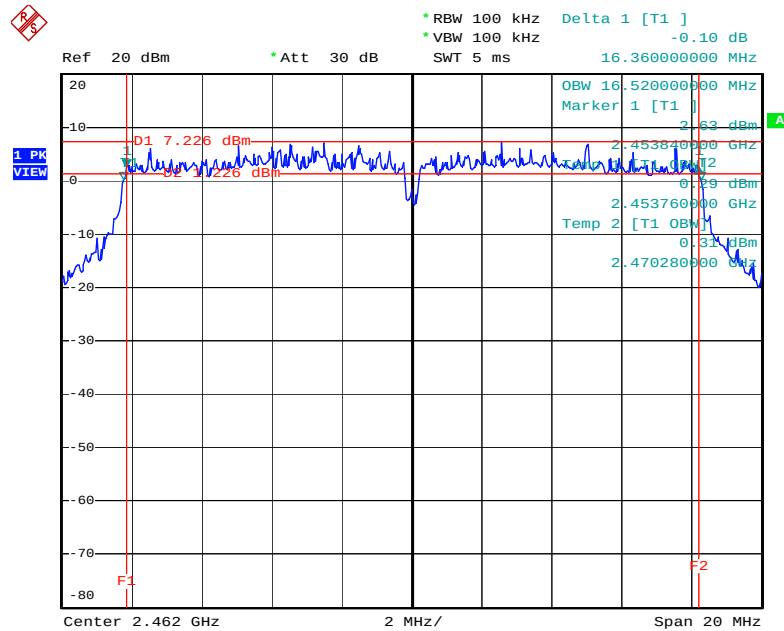
Date: 10.AUG.2009 22:50:10

6 dB Bandwidth Plot on Configuration IEEE 802.11g Ant. 1 / 2437 MHz



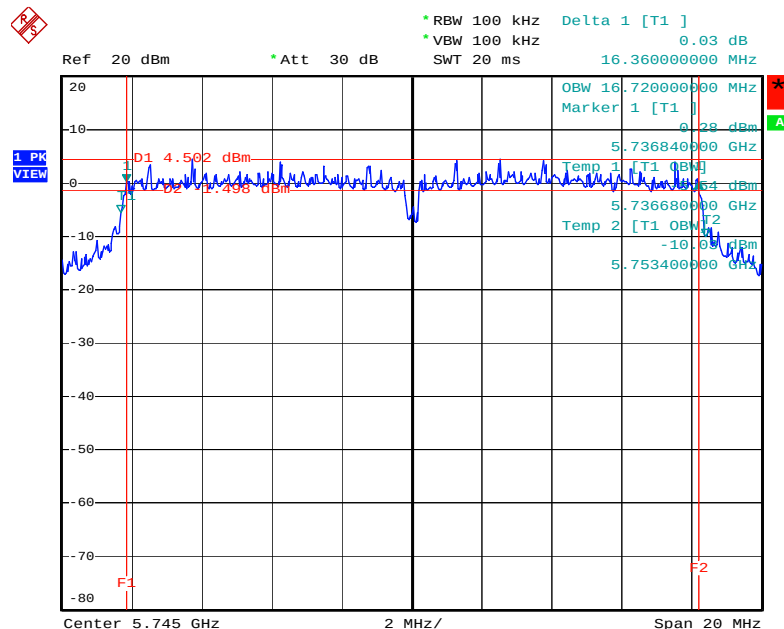
Date: 10.AUG.2009 22:47:49

6 dB Bandwidth Plot on Configuration IEEE 802.11g Ant. 1 / 2462 MHz



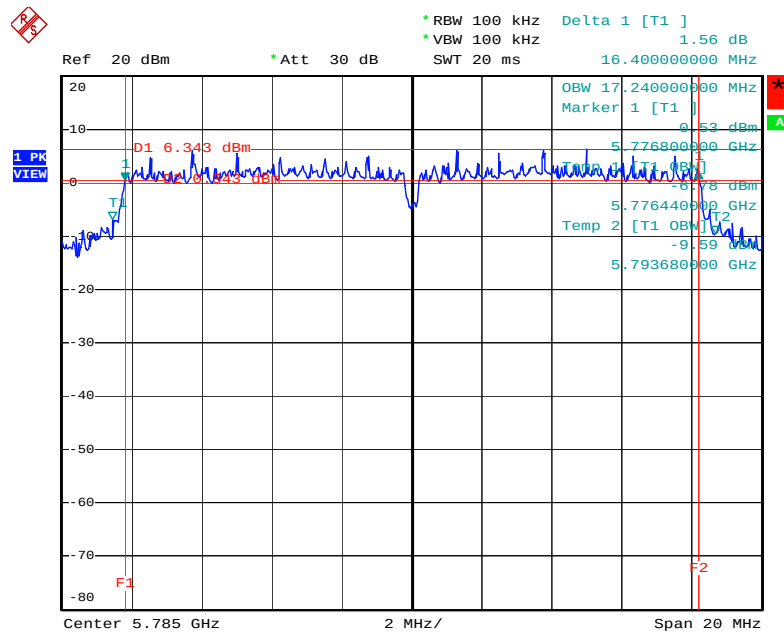
Date: 10.AUG.2009 22:45:00

6 dB Bandwidth Plot on Configuration IEEE 802.11a Ant. 1 / 5745 MHz



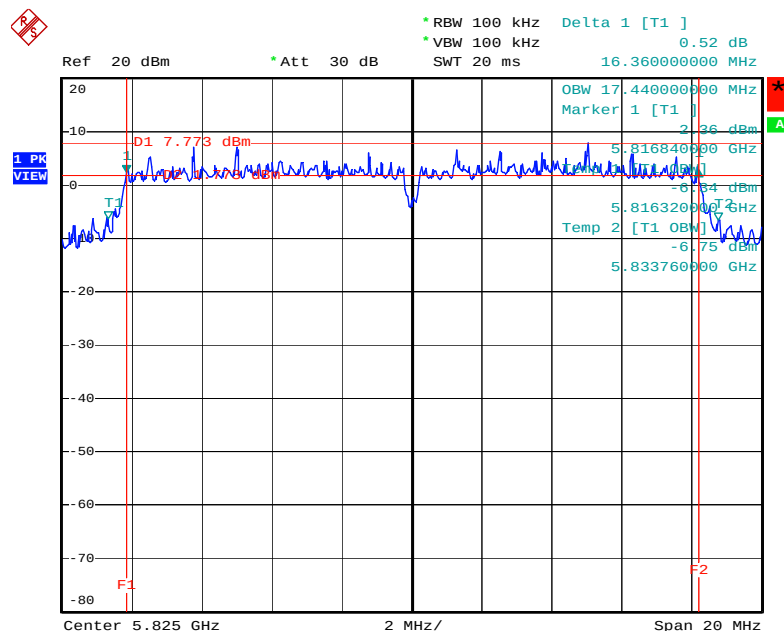
Date: 10.AUG.2009 15:37:29

6 dB Bandwidth Plot on Configuration IEEE 802.11a Ant. 1 / 5785 MHz



Date: 10.AUG.2009 15:39:55

6 dB Bandwidth Plot on Configuration IEEE 802.11a Ant. 1 / 5825 MHz



Date: 10.AUG.2009 15:43:57

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

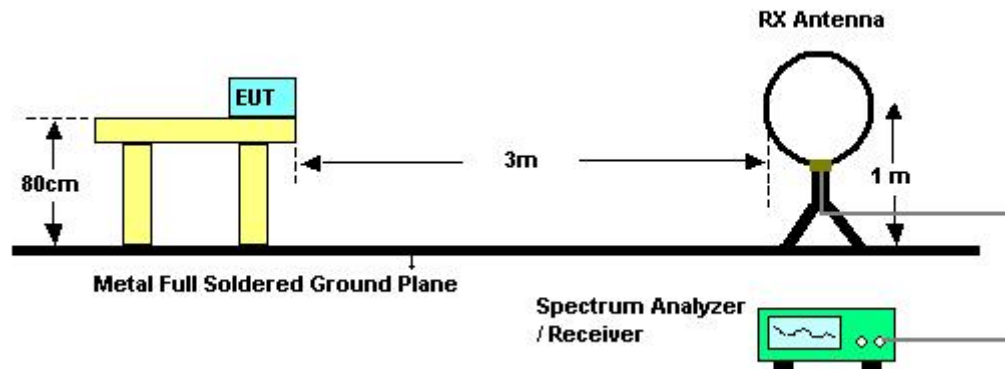
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.5.3. Test Procedures

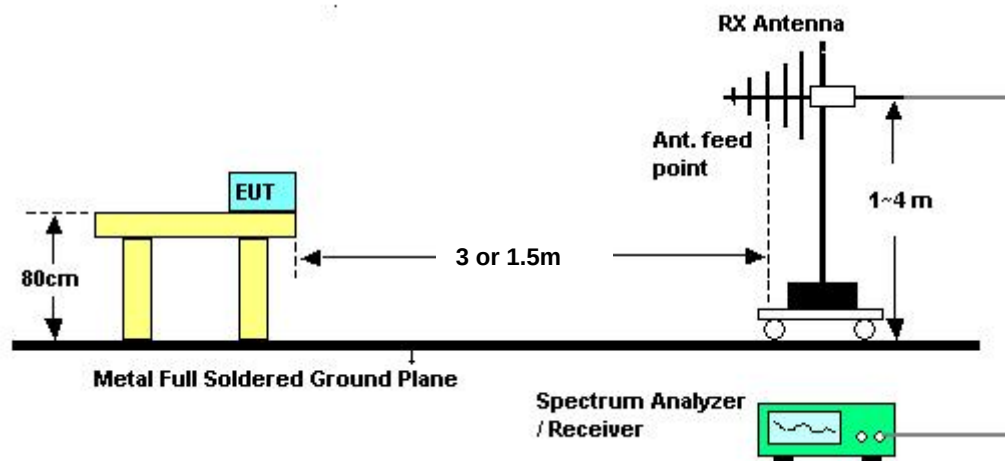
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting 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 from 3m to 1.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$ (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	24.3°C	Humidity	56%
Test Engineer	Allen Liu		

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.

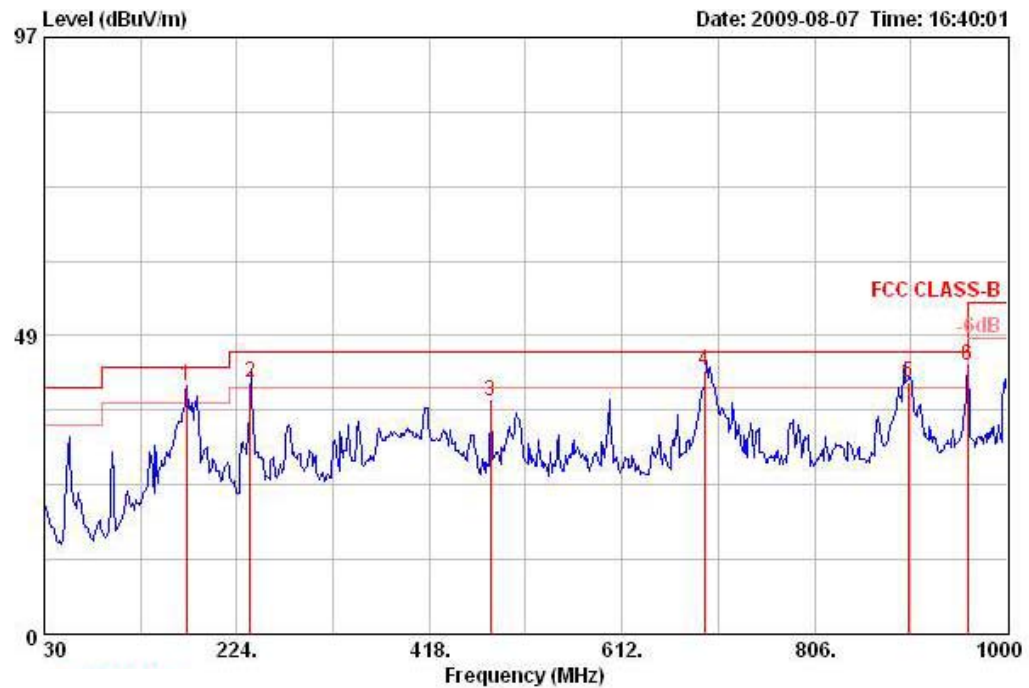
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

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

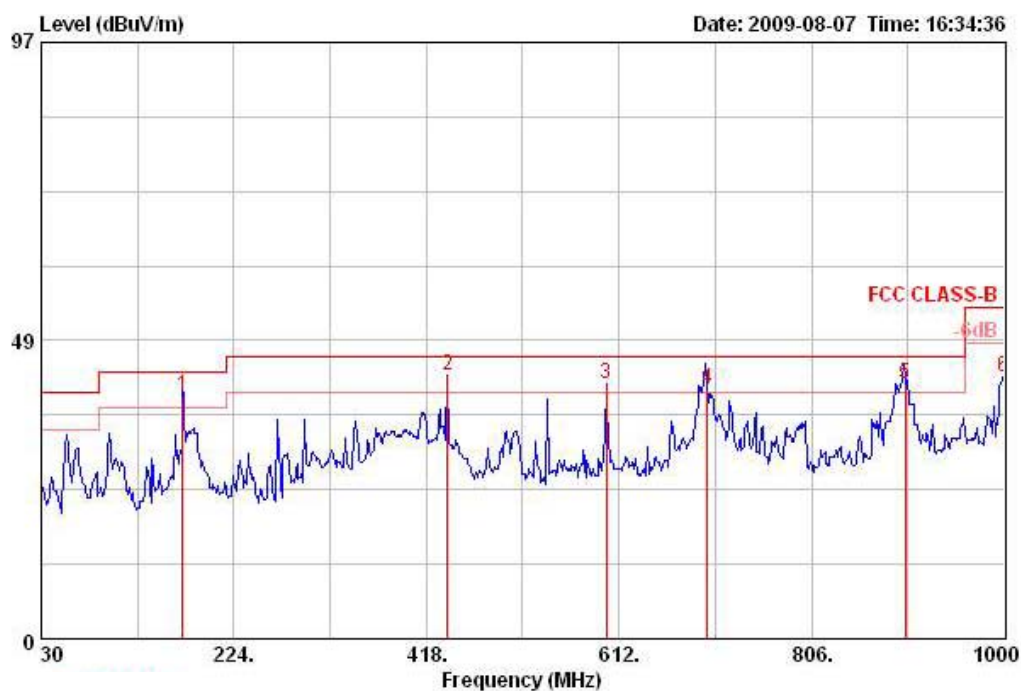
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Normal Link

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 @	173.560	40.28	-3.22	43.50	52.90	13.05	27.23	1.57	Peak	HORIZONTAL	0	100
2 !	237.346	40.86	-5.14	46.00	54.19	11.84	27.02	1.85	QP	HORIZONTAL	127	100
3	479.110	37.98	-8.02	46.00	46.02	17.30	27.99	2.66	Peak	HORIZONTAL	0	100
4 !	695.247	42.76	-3.24	46.00	48.37	19.07	28.00	3.32	Peak	HORIZONTAL	226	100
5 !	900.010	41.00	-5.00	46.00	44.27	20.53	27.40	3.60	QP	HORIZONTAL	113	100
6	960.230	43.58	-10.42	54.00	46.13	20.99	27.16	3.62	Peak	HORIZONTAL	0	100

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 !	172.520	39.49	-4.01	43.50	52.19	12.97	27.23	1.56	QP	VERTICAL	246	100
2 !	439.340	42.76	-3.24	46.00	51.35	16.68	27.80	2.54	Peak	VERTICAL	0	400
3 !	599.390	41.59	-4.41	46.00	48.03	18.76	28.10	2.90	Peak	VERTICAL	0	400
4 !	700.640	40.59	-5.41	46.00	46.19	19.09	27.99	3.30	QP	VERTICAL	173	100
5 !	900.483	41.41	-4.59	46.00	44.67	20.53	27.39	3.60	QP	VERTICAL	314	100
6	1000.000	42.57	-11.43	54.00	44.58	21.29	27.00	3.70	Peak	VERTICAL	0	400

Note:

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

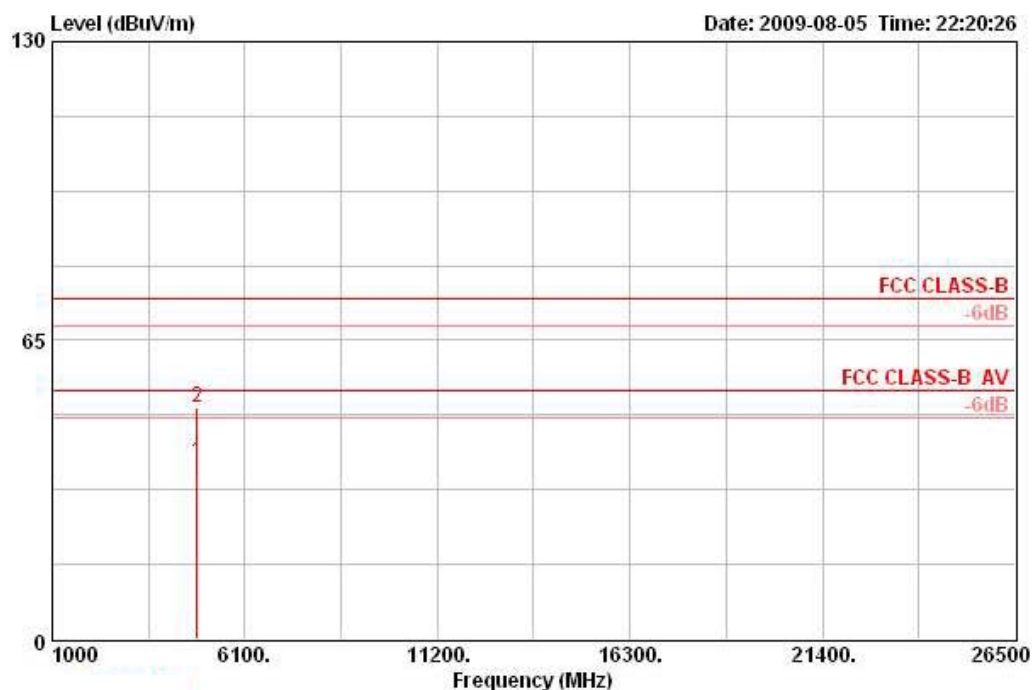
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

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

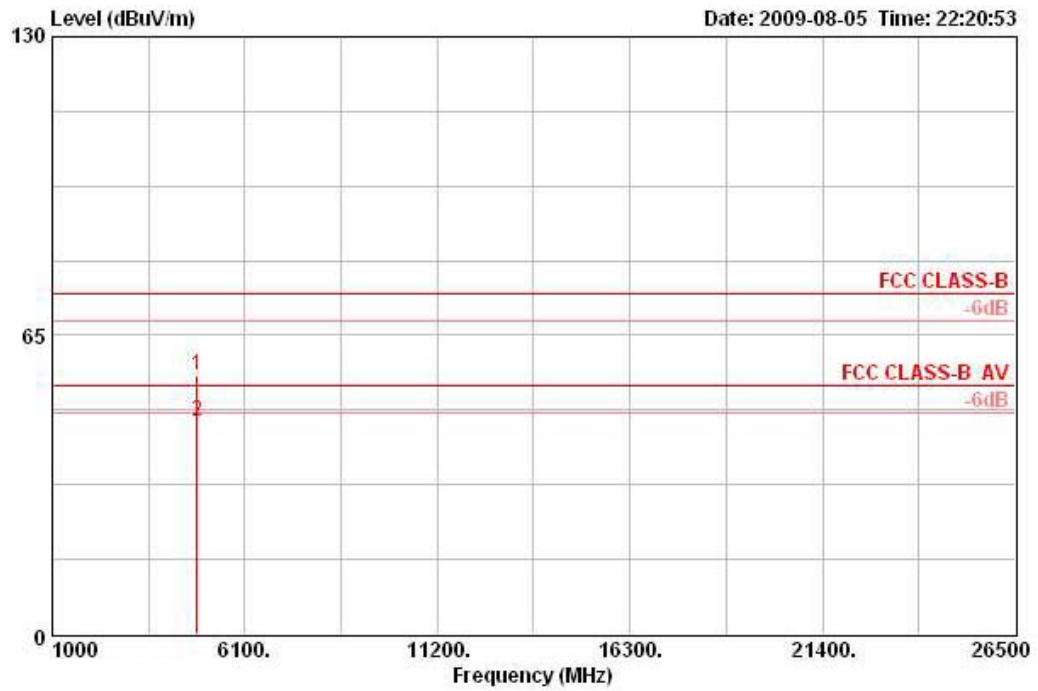
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 20MHz Ch 1 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4824.007	38.66	-15.34	54.00	34.08	33.39	35.20	6.39	AVERAGE	HORIZONTAL	229	100
2	4824.016	50.51	-23.49	74.00	45.93	33.39	35.20	6.39	PEAK	HORIZONTAL	229	100

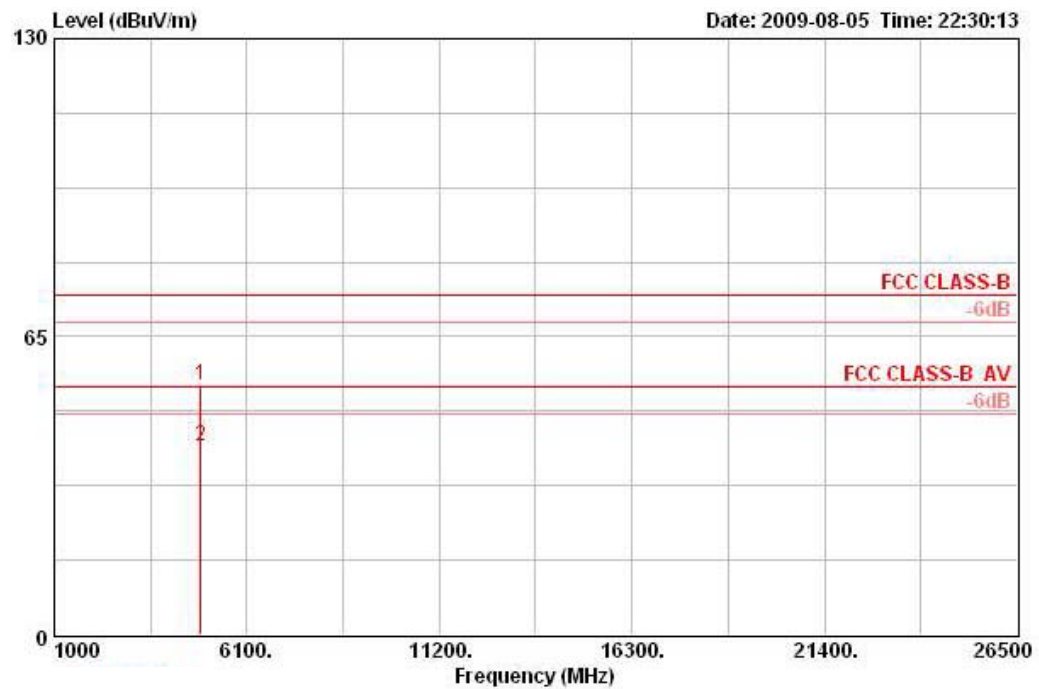
Vertical



	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss		Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	4823.987	56.33	-17.67	74.00	51.75	33.39	35.20	6.39	PEAK	VERTICAL	183
2	4824.016	46.38	-7.62	54.00	41.80	33.39	35.20	6.39	AVERAGE	VERTICAL	183

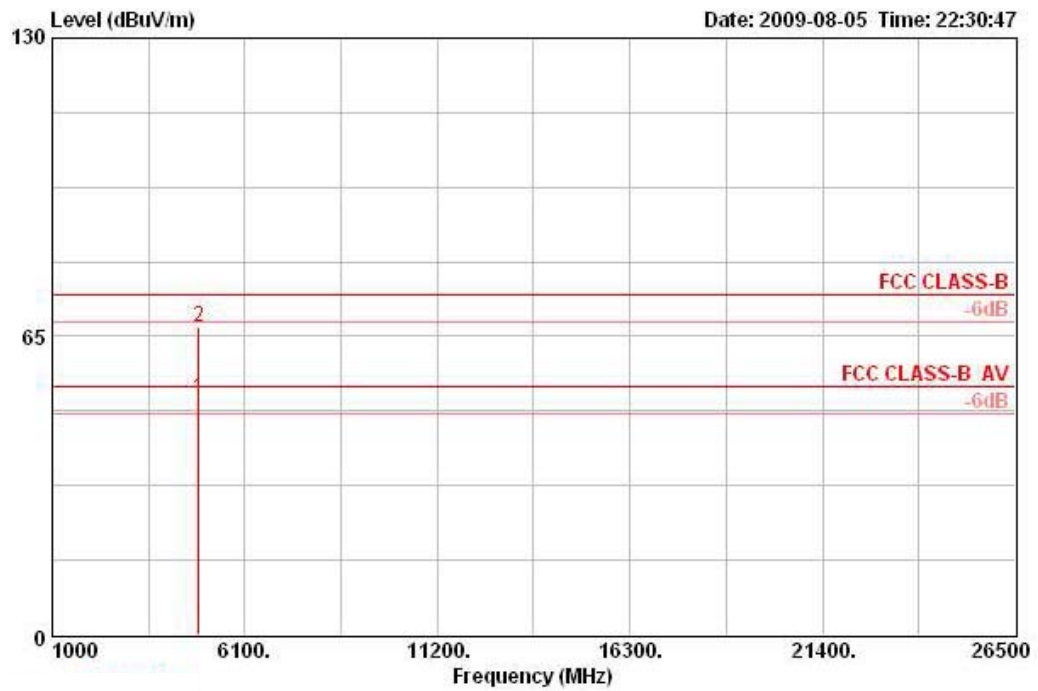
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 20MHz Ch 6 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4873.983	54.42	-19.58	74.00	49.58	33.48	35.20	6.56	PEAK	HORIZONTAL	272	100
2	4874.021	41.17	-12.83	54.00	36.32	33.48	35.20	6.56	AVERAGE	HORIZONTAL	272	100

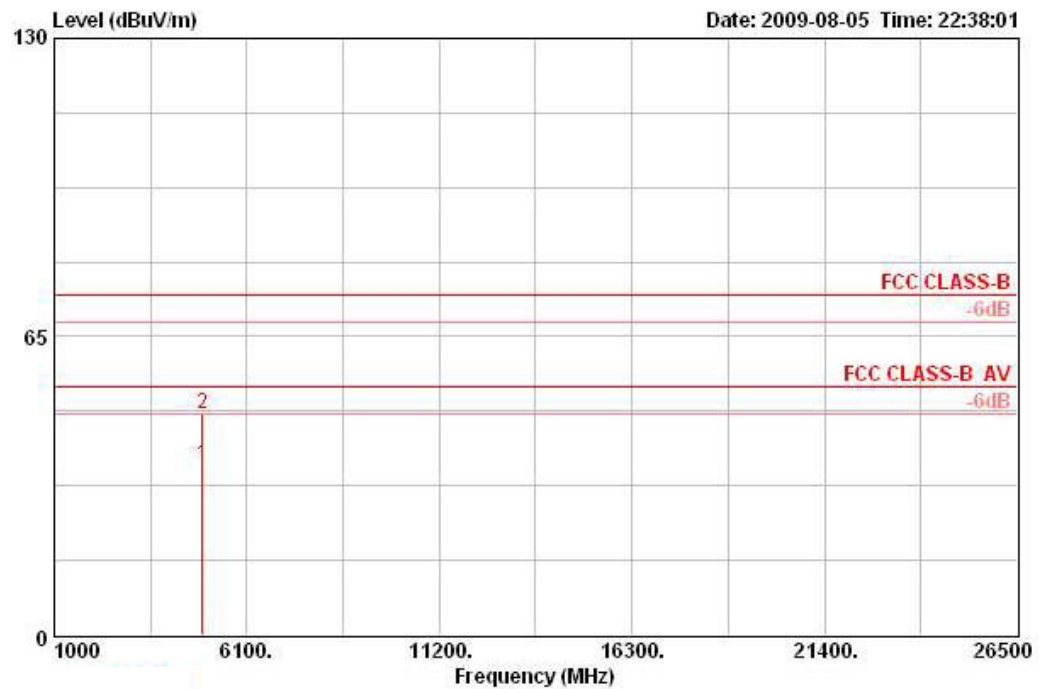
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4873.979	51.57	-2.43	54.00	46.73	33.48	35.20	6.56 AVERAGE	VERTICAL	259	100
2	4873.985	67.20	-6.80	74.00	62.36	33.48	35.20	6.56 PEAK	VERTICAL	259	100

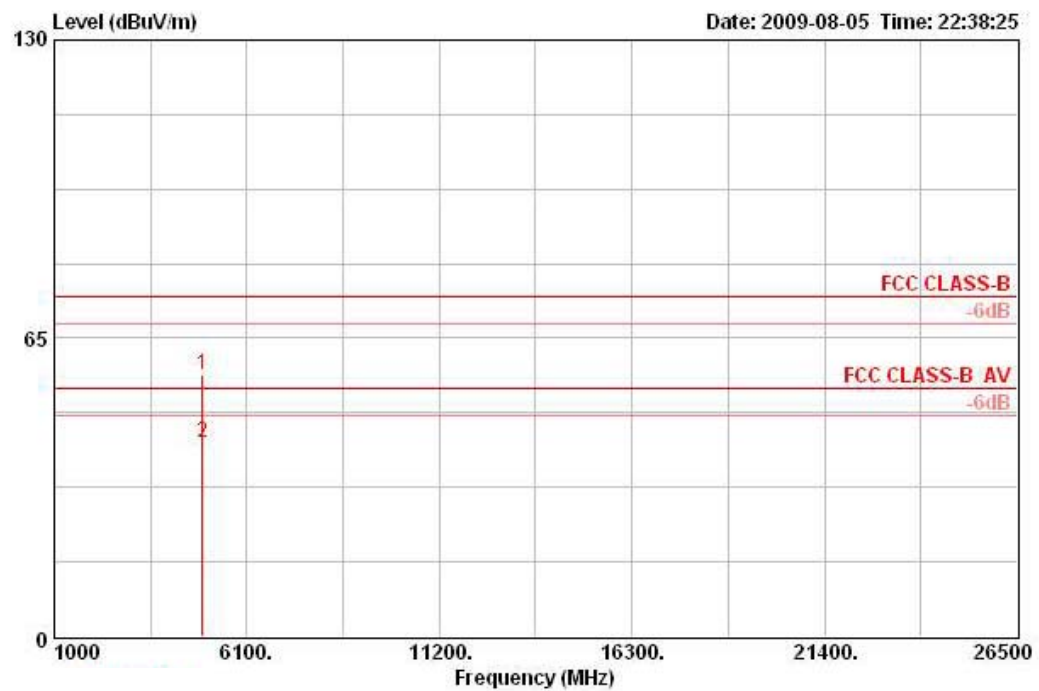
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 20MHz Ch11 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4923.995	36.98	-17.02	54.00	31.87	33.58	35.20	6.73 AVERAGE	HORIZONTAL	189	100
2	4924.019	48.16	-25.84	74.00	43.05	33.58	35.20	6.73 PEAK	HORIZONTAL	189	100

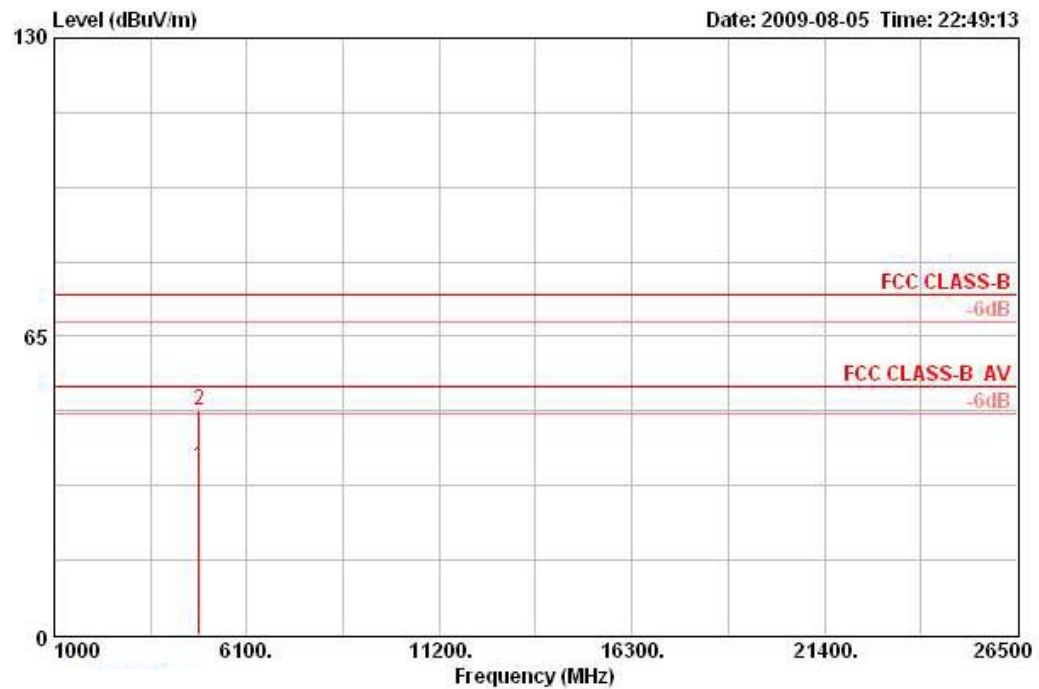
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4923.987	56.95	-17.05	74.00	51.84	33.58	35.20	6.73 PEAK	VERTICAL	195	100
2	4923.990	42.07	-11.93	54.00	36.96	33.58	35.20	6.73 AVERAGE	VERTICAL	195	100

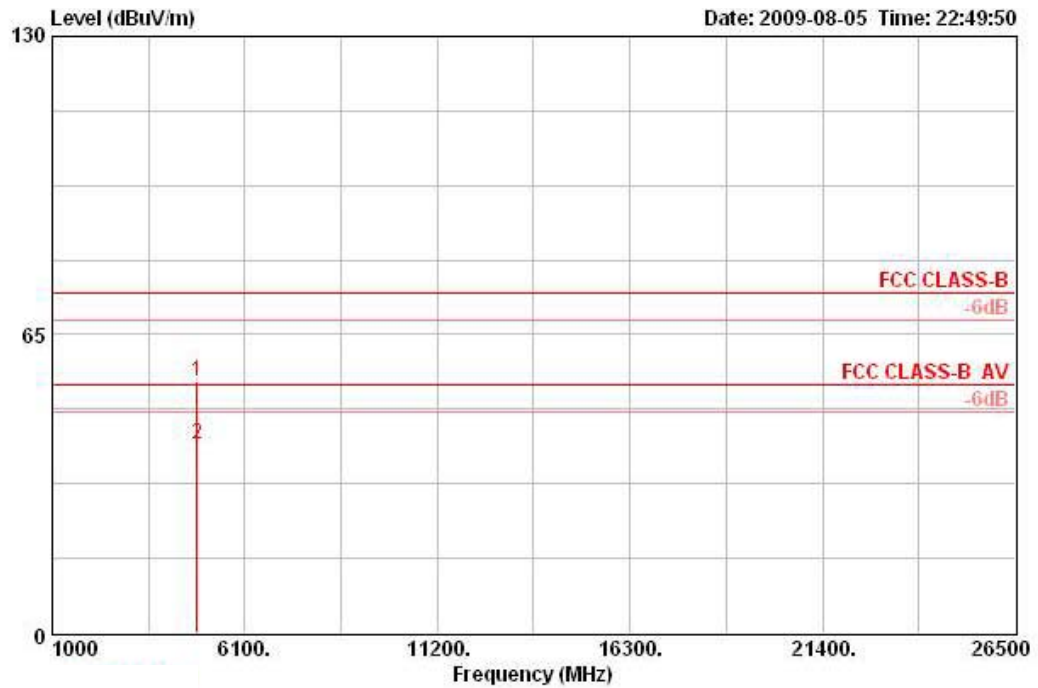
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 40MHz Ch 3 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4843.988	36.55	-17.45	54.00	31.86	33.42	35.20	6.47	AVERAGE	HORIZONTAL	88	100
2	4844.006	49.02	-24.98	74.00	44.33	33.42	35.20	6.47	PEAK	HORIZONTAL	88	100

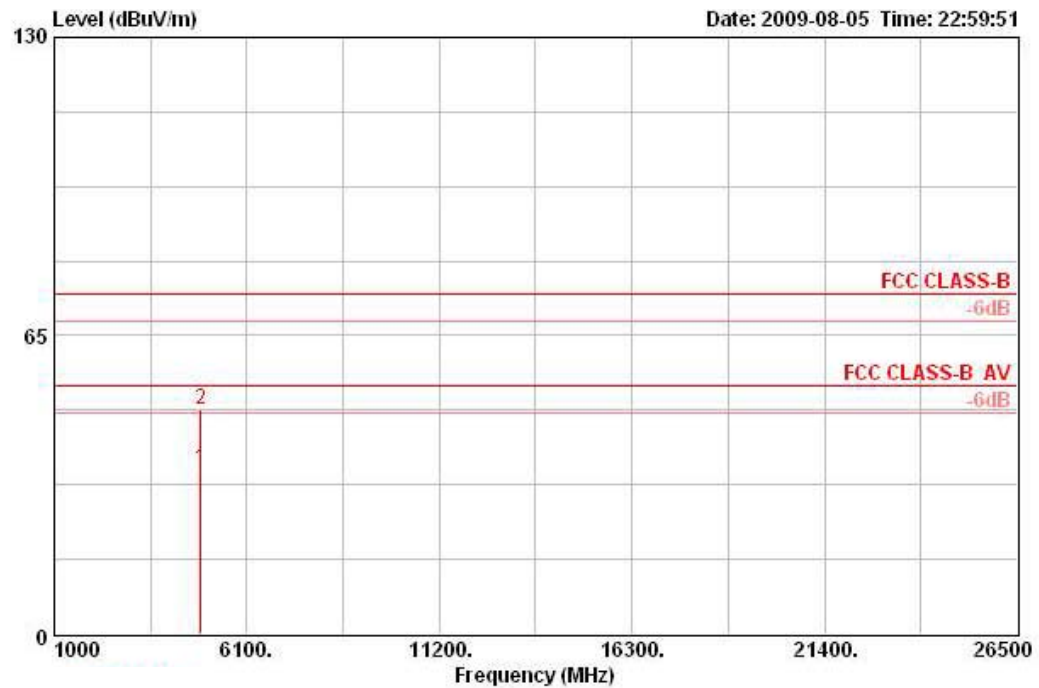
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4844.017	54.94	-19.06	74.00	50.24	33.42	35.20	6.47 PEAK	VERTICAL	194	100
2	4844.021	41.09	-12.91	54.00	36.39	33.42	35.20	6.47 AVERAGE	VERTICAL	194	100

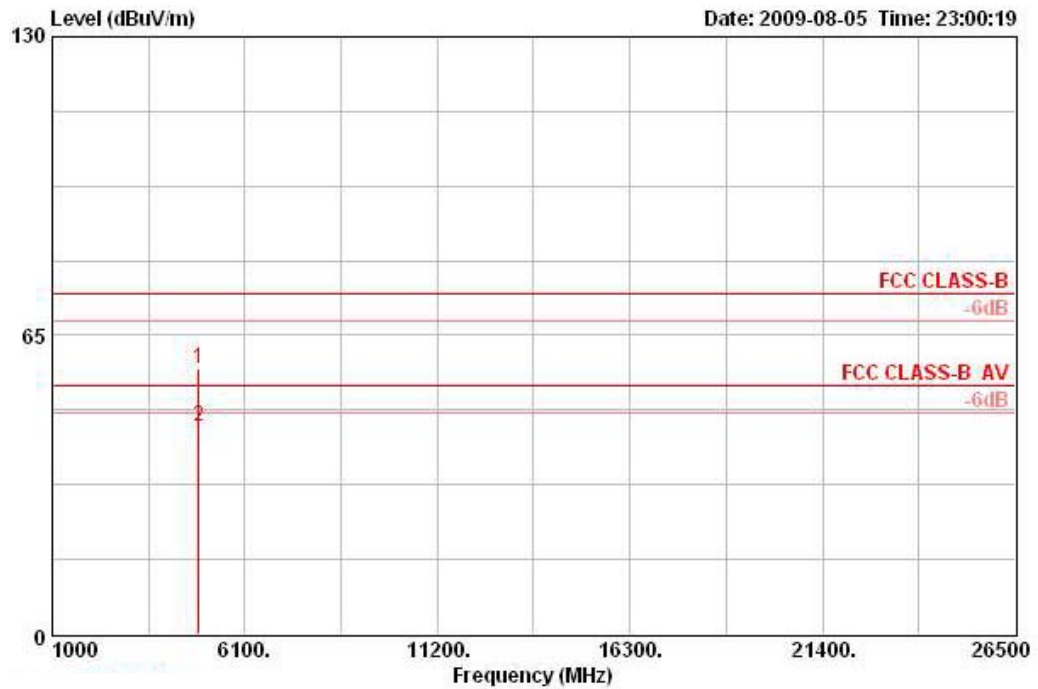
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 40MHz Ch 6 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	MHz	dBUV/m	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
			dB	dBUV/m	dBUV	dB/m	dB	dB			deg	cm
1	4873.987	36.10	-17.90	54.00	31.26	33.48	35.20	6.56	AVERAGE	HORIZONTAL	200	115
2	4874.008	48.84	-25.16	74.00	44.00	33.48	35.20	6.56	PEAK	HORIZONTAL	200	100

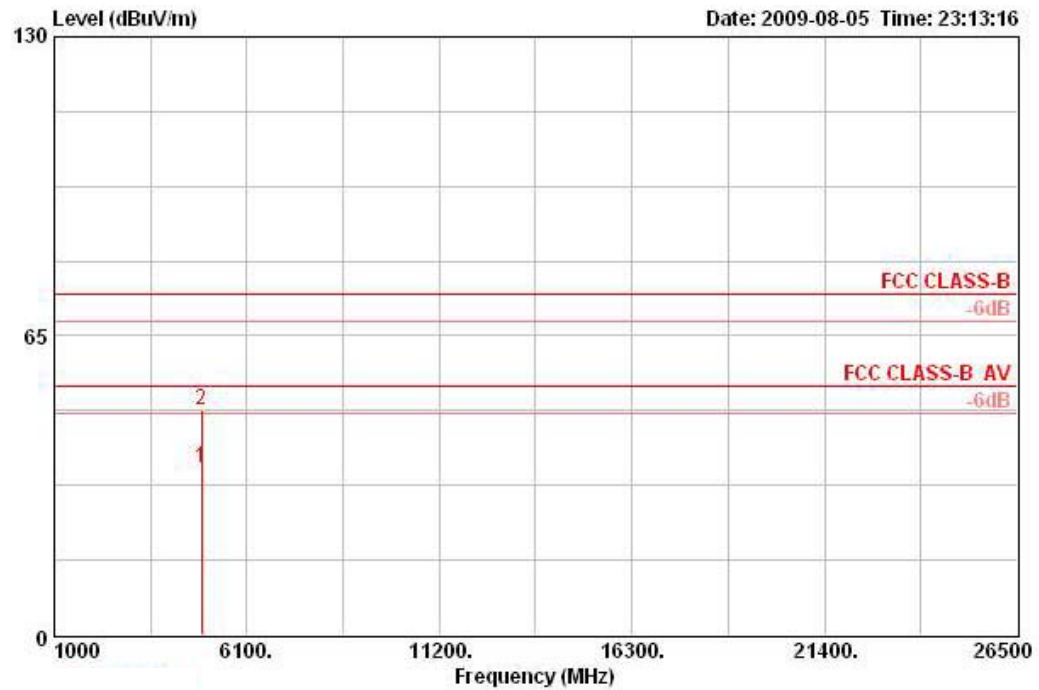
Vertical



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4873.977	57.89	-16.11	74.00	53.05	33.48	35.20	6.56	PEAK	VERTICAL	185	100
2	4874.016	45.29	-8.71	54.00	40.45	33.48	35.20	6.56	AVERAGE	VERTICAL	185	100

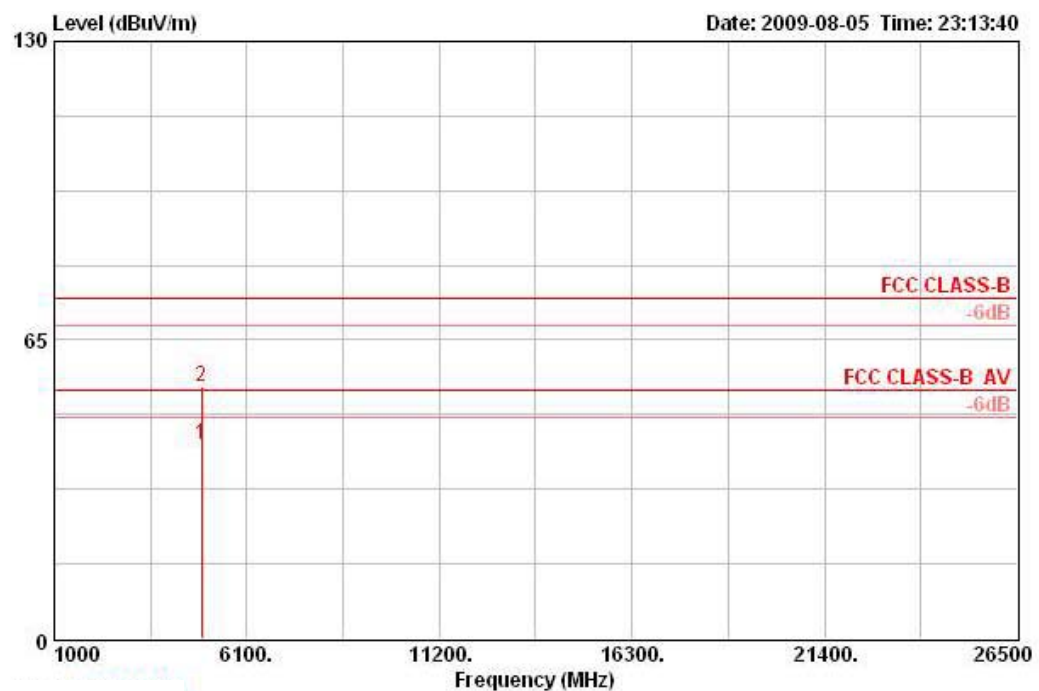
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 40MHz Ch 9 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4903.984	36.20	-17.80	54.00	31.21	33.54	35.20	6.65	AVERAGE	HORIZONTAL	170	100
2	4904.012	48.72	-25.28	74.00	43.73	33.54	35.20	6.65	PEAK	HORIZONTAL	170	100

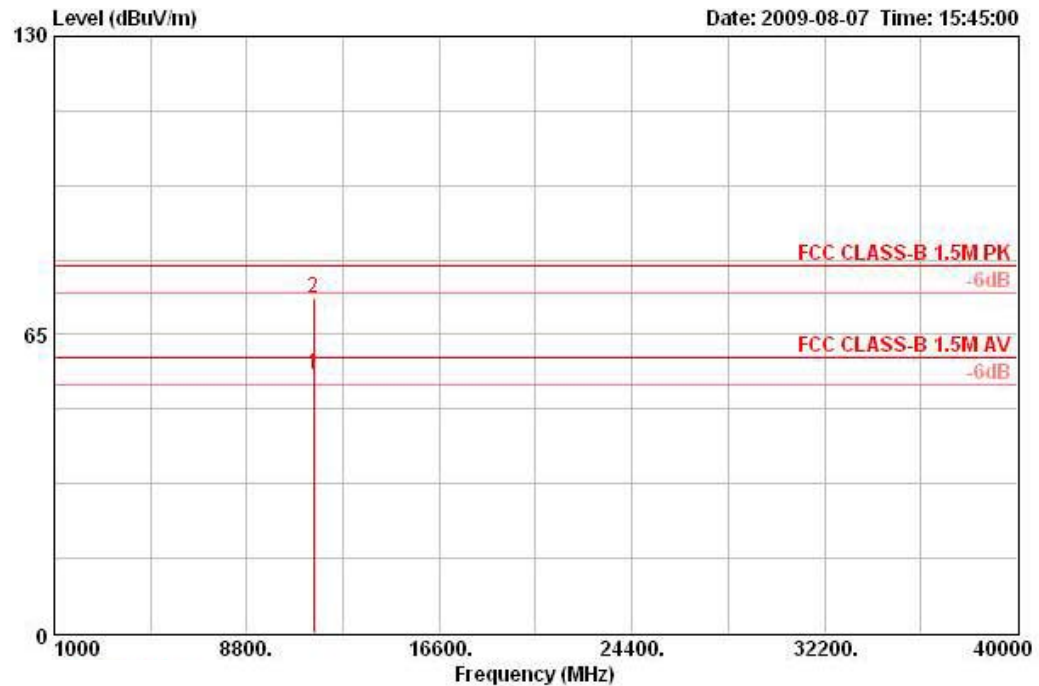
Vertical



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable		Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	4903.979	42.18	-11.82	54.00	37.19	33.54	35.20	6.65	AVERAGE	193	100
2	4903.990	54.72	-19.28	74.00	49.73	33.54	35.20	6.65	PEAK	193	100

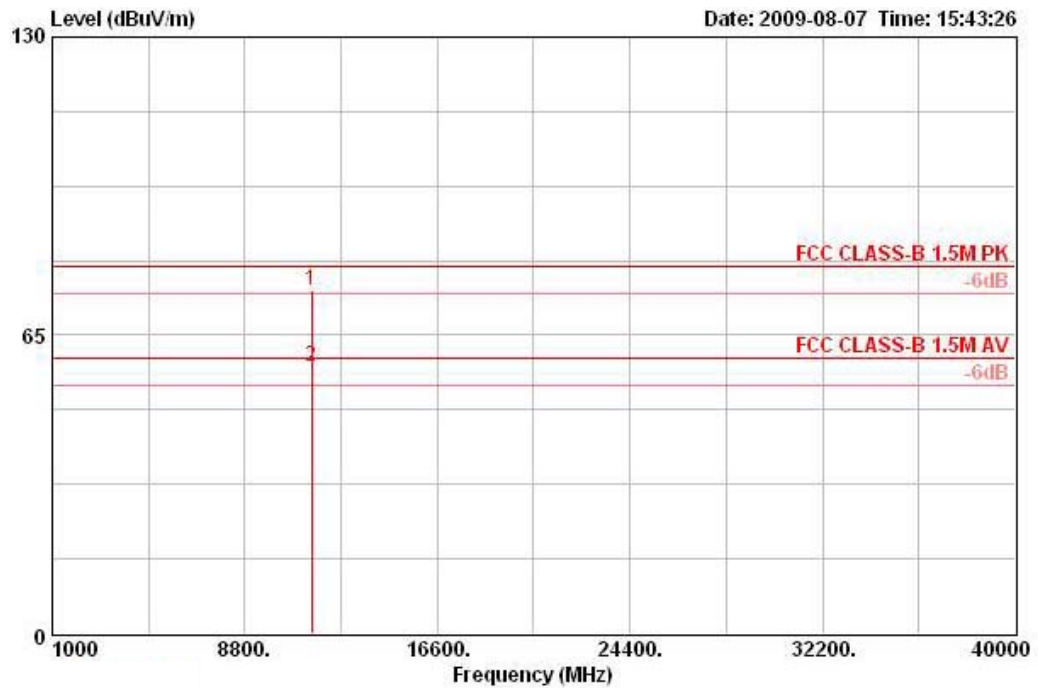
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS8 20MHz CH 149 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 !	11489.970	56.16	-3.84	60.00	40.85	39.50	35.09	10.90	AVERAGE	HORIZONTAL	333	100
2	11489.980	73.04	-6.96	80.00	57.74	39.50	35.09	10.90	PEAK	HORIZONTAL	333	100

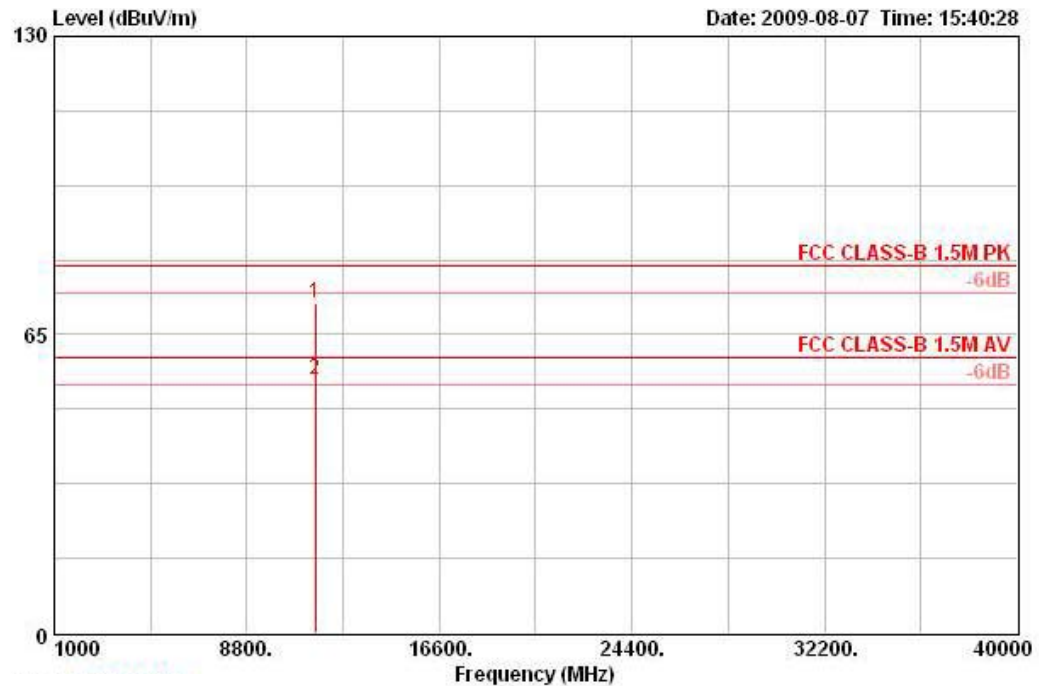
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1 !	11490.000	74.90	-5.10	80.00	59.59	39.50	35.09	10.90 PEAK	VERTICAL	316	100
2 @	11490.010	58.13	-1.87	60.00	42.82	39.50	35.09	10.90 AVERAGE	VERTICAL	316	100

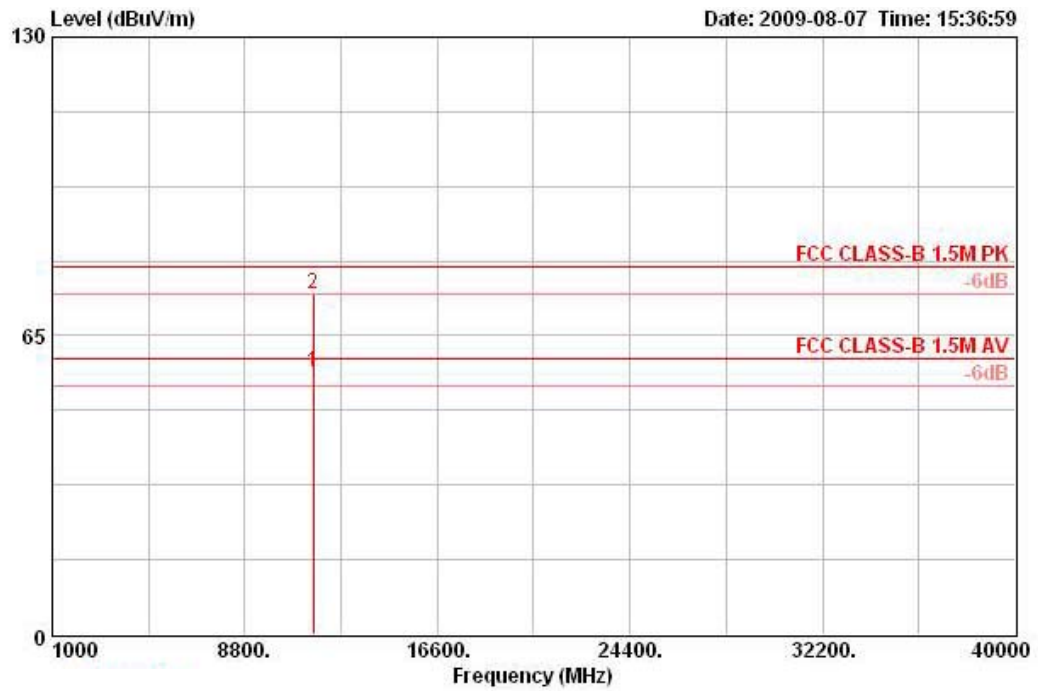
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS8 20MHz CH 157 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	11570.010	71.92	-8.08	80.00	56.67	39.47	35.09	10.86	PEAK	HORIZONTAL	331	100
2	11570.030	55.33	-4.67	60.00	40.08	39.47	35.09	10.86	AVERAGE	HORIZONTAL	331	100

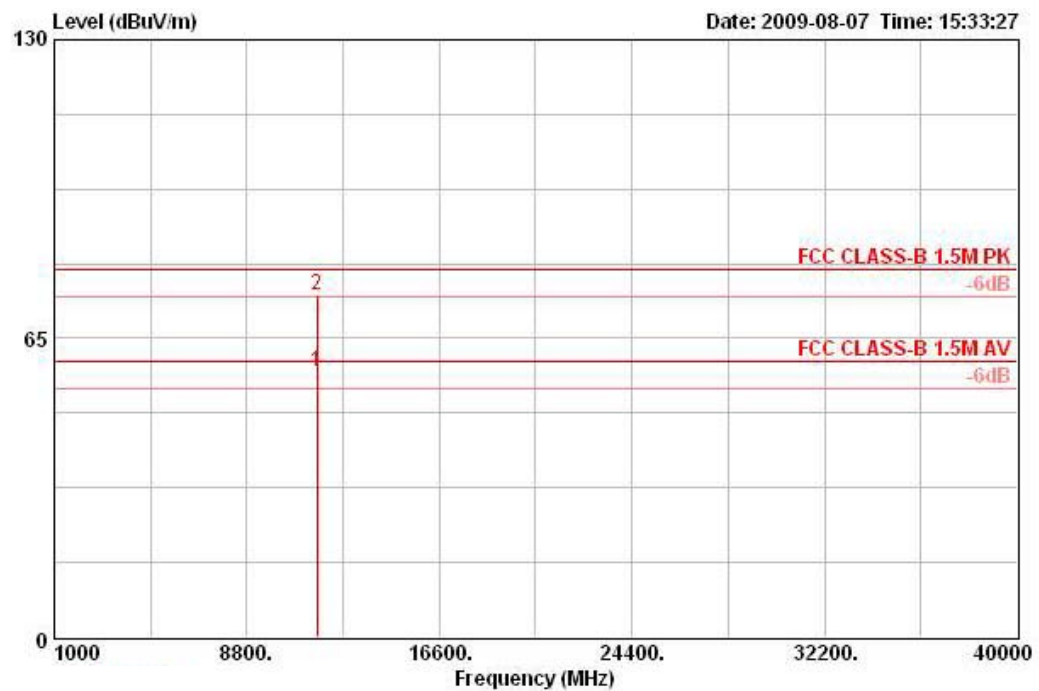
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	11569.970	57.02	-2.98	60.00	41.77	39.47	35.09	10.86 AVERAGE	VERTICAL	315	100
2	11569.980	74.02	-5.98	80.00	58.78	39.47	35.09	10.86 PEAK	VERTICAL	315	100

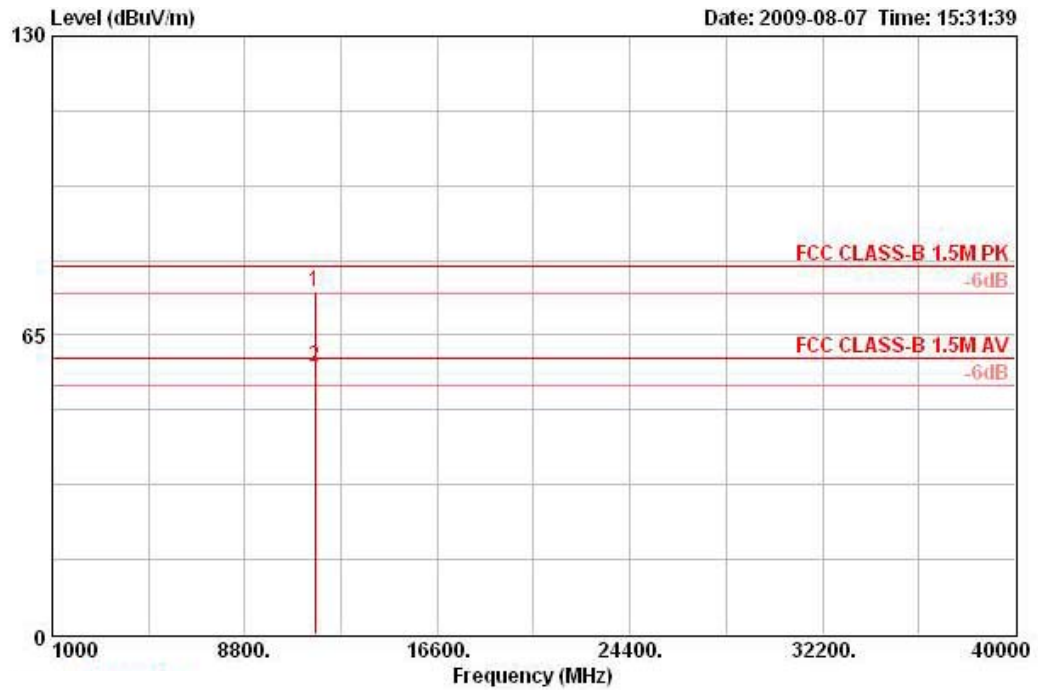
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS8 20MHz CH 165 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	11649.990	57.72	-2.28	60.00	42.63	39.44	35.07	10.72	AVERAGE	HORIZONTAL	332	100
2	11649.990	74.59	-5.41	80.00	59.50	39.44	35.07	10.72	PEAK	HORIZONTAL	332	100

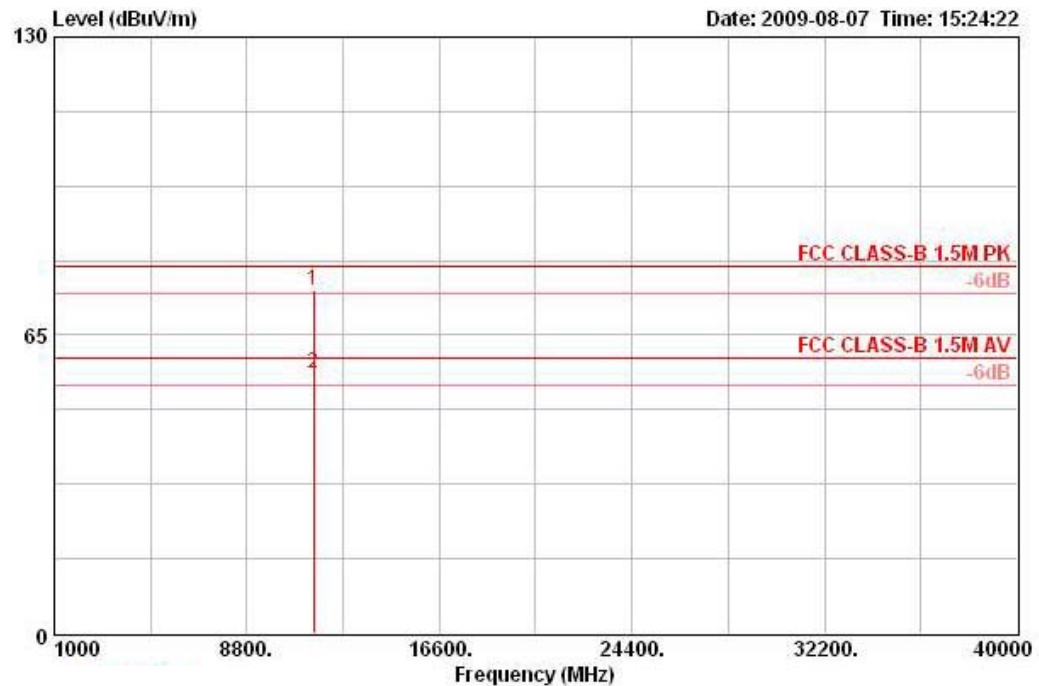
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 !	11649.990	74.60	-5.40	80.00	59.50	39.44	35.07	10.72	PEAK	VERTICAL	317	100
2 @	11650.030	58.30	-1.70	60.00	43.20	39.44	35.07	10.72	AVERAGE	VERTICAL	317	100

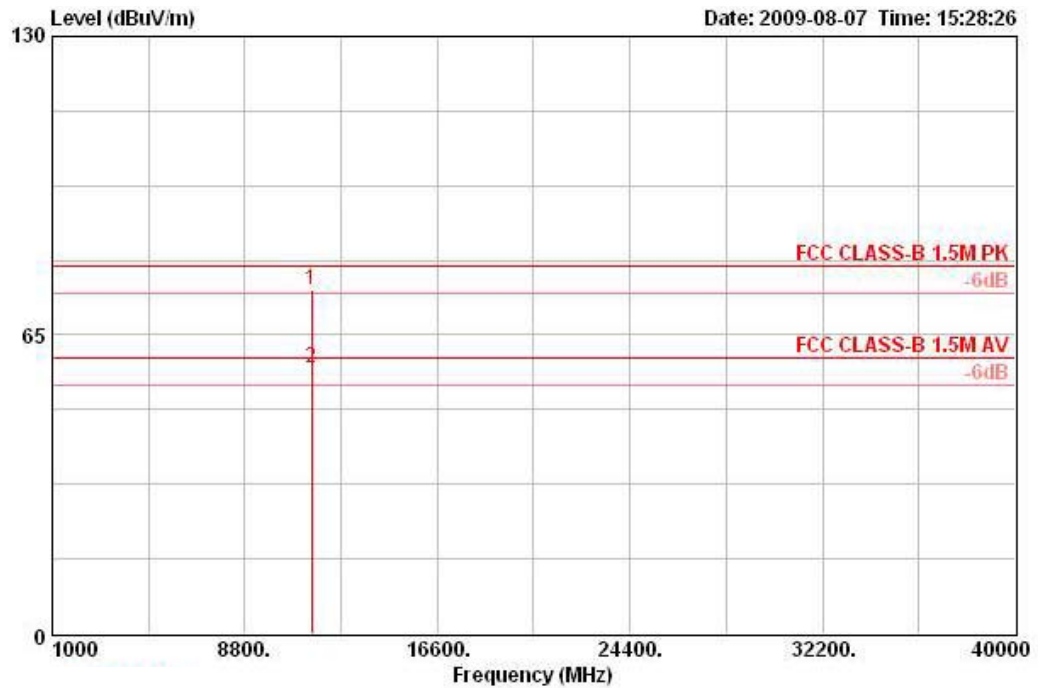
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS8 40MHz CH 151 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable			Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1 !	11509.990	74.76	-5.24	80.00	59.47	39.50	35.10	10.89	PEAK	HORIZONTAL	100
2 @	11510.030	56.66	-3.34	60.00	41.38	39.50	35.10	10.89	AVERAGE	HORIZONTAL	100

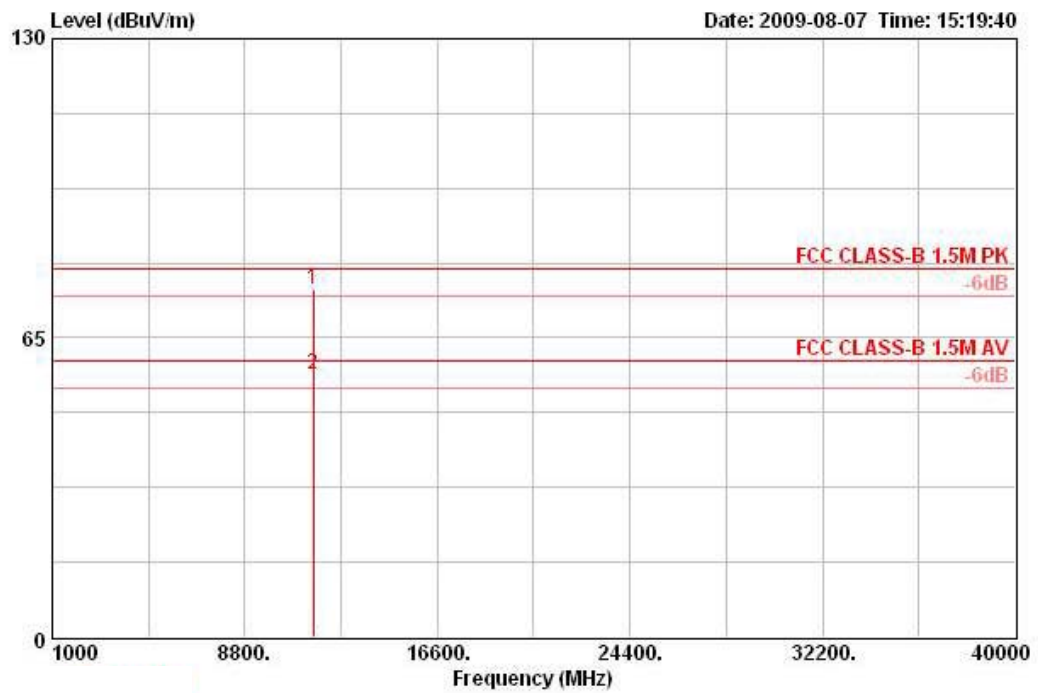
Vertical



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable		Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1 !	11509.980	74.85	-5.15	80.00	59.57	39.50	35.10	10.89	PEAK	329	100
2 !	11510.010	57.79	-2.21	60.00	42.50	39.50	35.10	10.89	AVERAGE	329	100

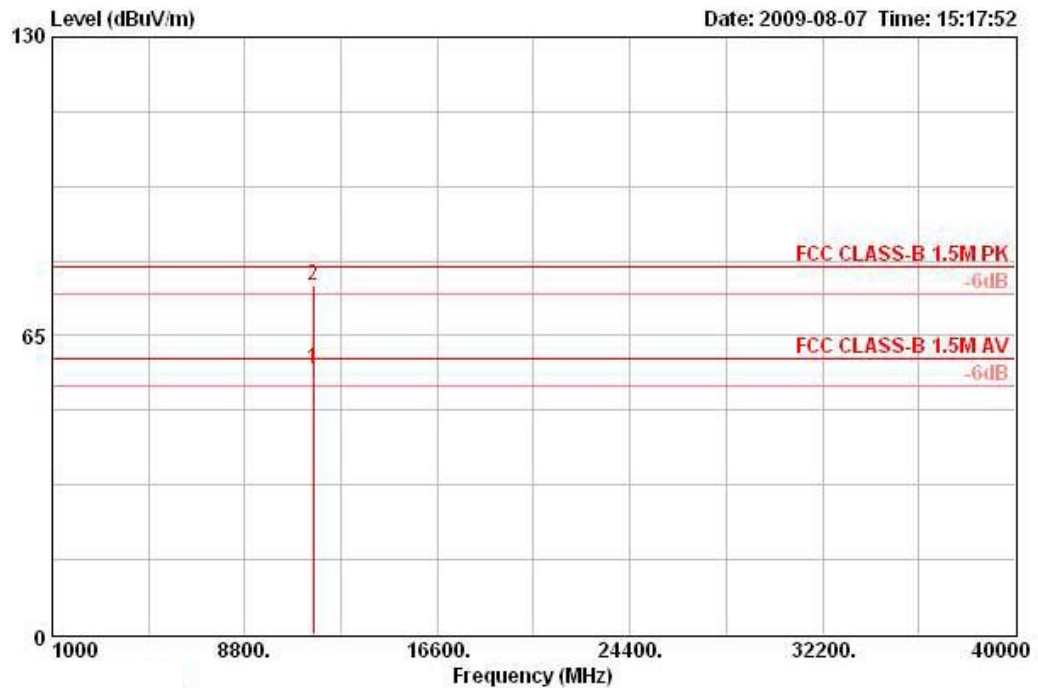
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS8 40MHz CH 159 / Ant. 1 + Ant. 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB			deg	cm
1 !	11589.980	75.53	-4.47	80.00	60.32	39.47	35.08	10.83	PEAK	HORIZONTAL	331	100
2 @	11590.030	57.18	-2.82	60.00	41.97	39.47	35.08	10.83	AVERAGE	HORIZONTAL	331	100

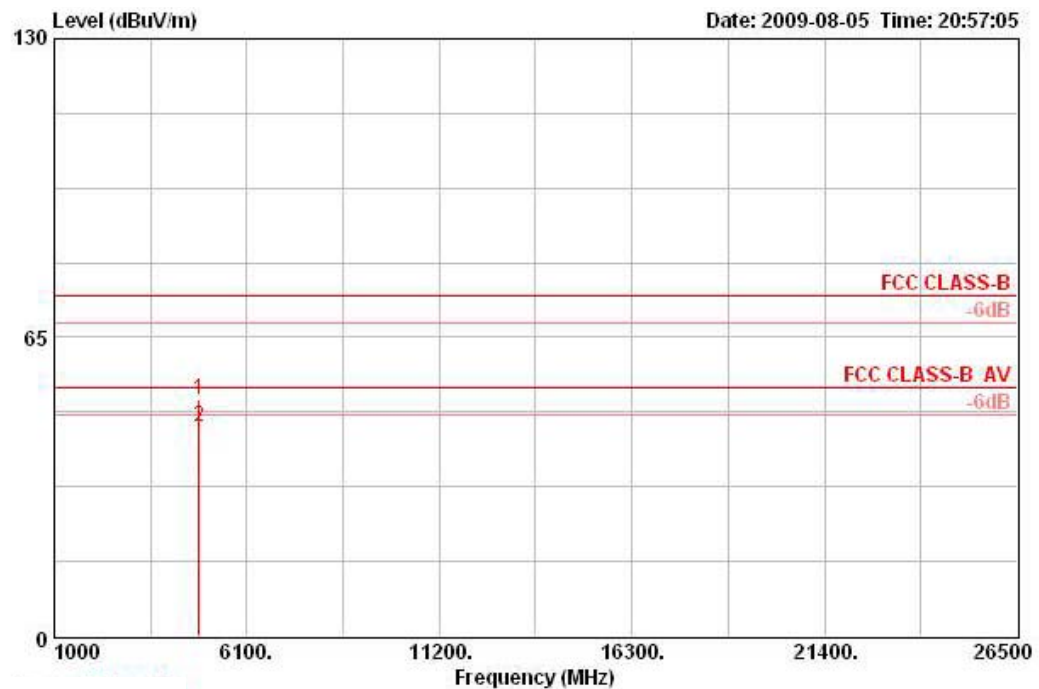
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	11589.990	57.64	-2.36	60.00	42.43	39.47	35.08	10.83	AVERAGE	VERTICAL	313	100
2	11590.020	75.75	-4.25	80.00	60.54	39.47	35.08	10.83	PEAK	VERTICAL	313	100

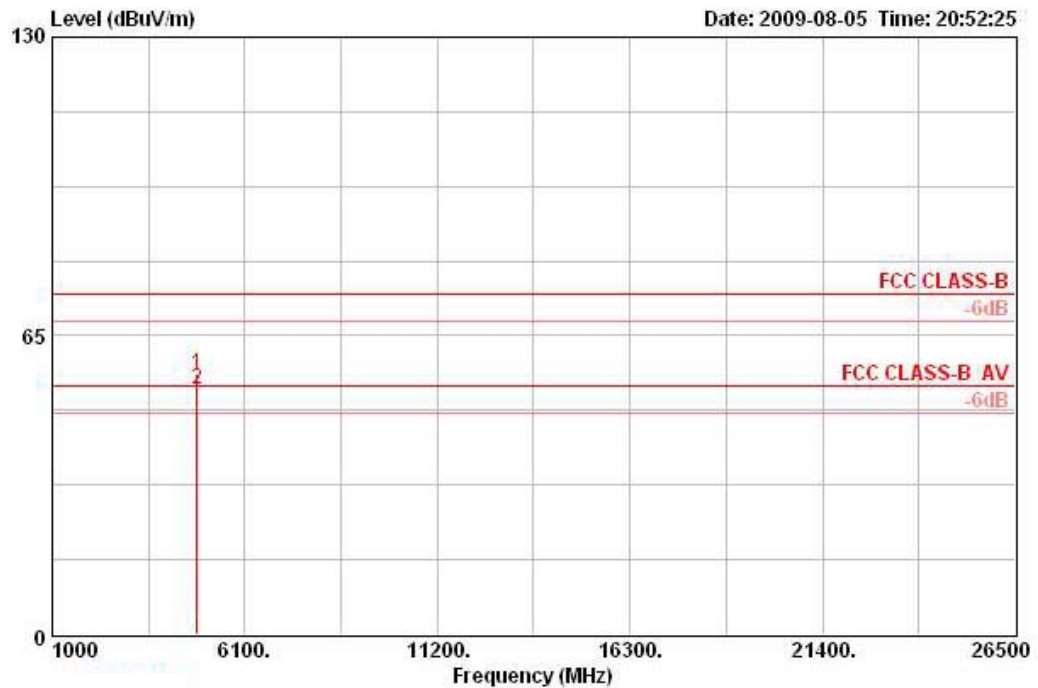
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 1 / Ant. 1

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4823.748	51.61	-22.39	74.00	47.03	33.39	35.20	6.39 PEAK	HORIZONTAL	124	100
2	4823.988	45.63	-8.37	54.00	41.05	33.39	35.20	6.39 AVERAGE	HORIZONTAL	124	100

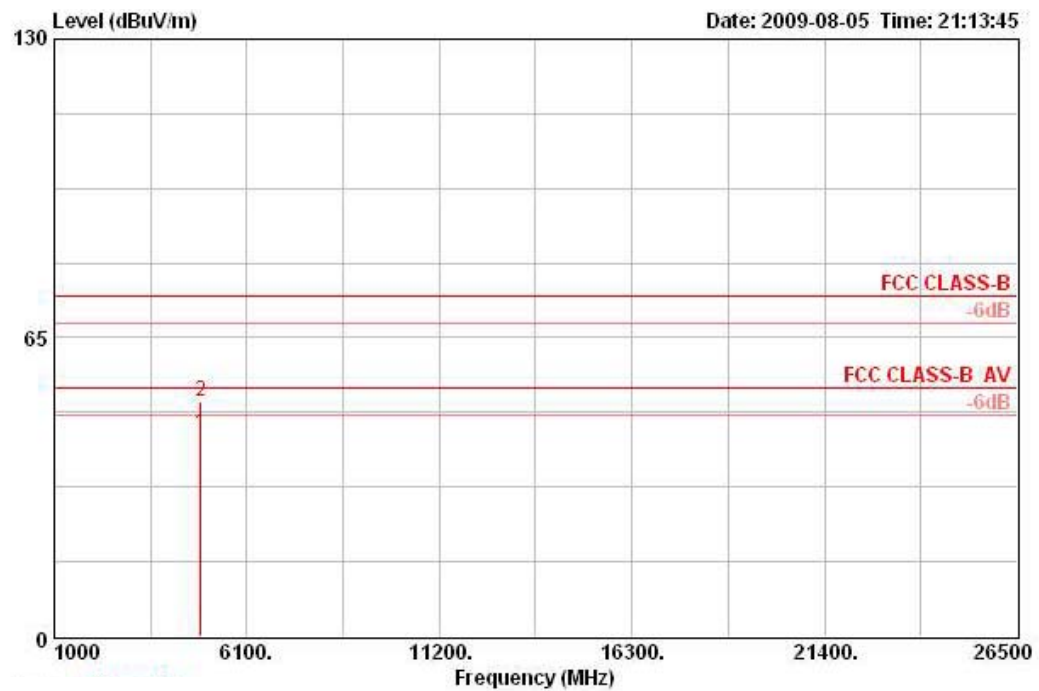
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4823.960	56.85	-17.15	74.00	52.27	33.39	35.20	6.39 PEAK	VERTICAL	291	111
2	4824.008	53.47	-0.53	54.00	48.89	33.39	35.20	6.39 AVERAGE	VERTICAL	291	111

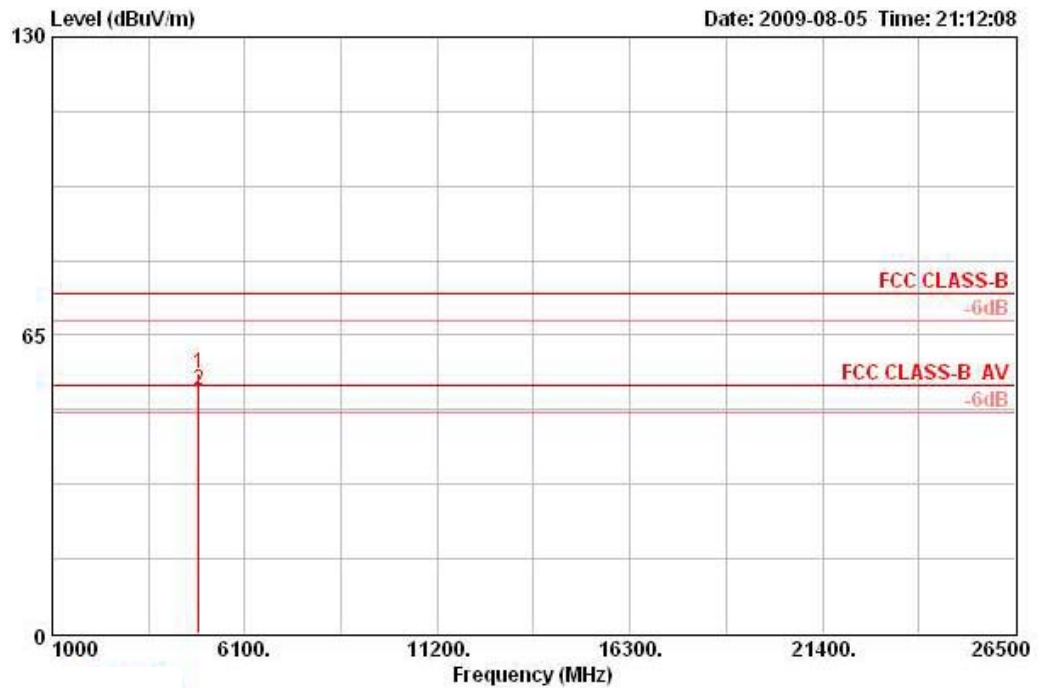
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 6 / Ant. 1

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4873.984	44.09	-9.91	54.00	39.25	33.48	35.20	6.56	AVERAGE	HORIZONTAL	120	111
2	4874.036	51.20	-22.80	74.00	46.36	33.48	35.20	6.56	PEAK	HORIZONTAL	120	111

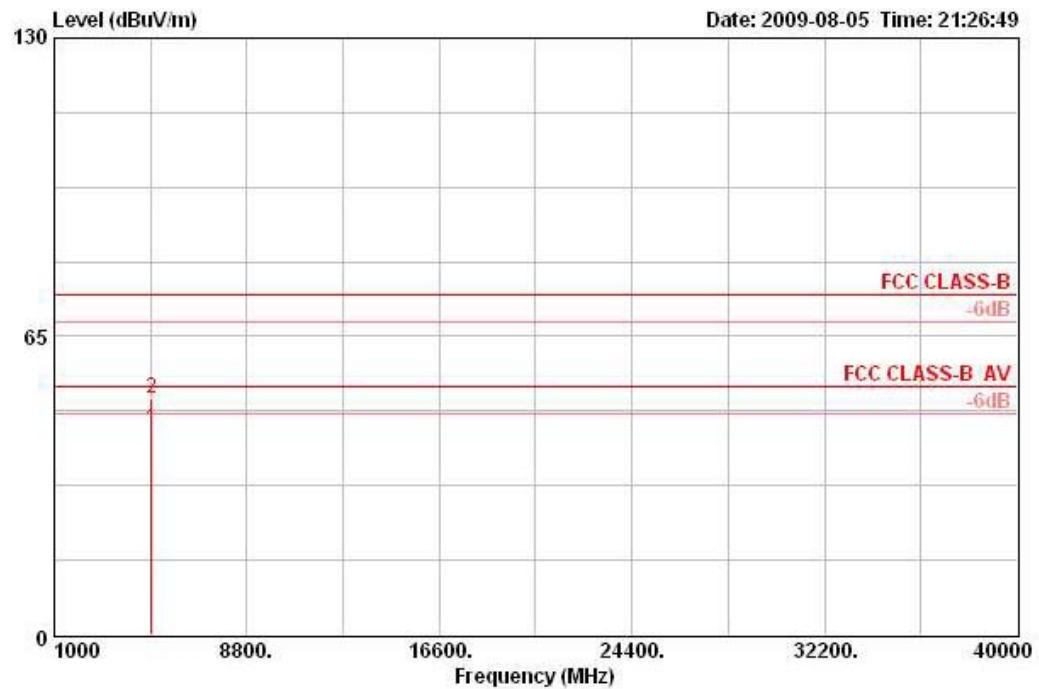
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4873.976	56.70	-17.30	74.00	51.85	33.48	35.20	6.56 PEAK	VERTICAL	274	100
2	4874.048	53.06	-0.94	54.00	48.22	33.48	35.20	6.56 AVERAGE	VERTICAL	274	100

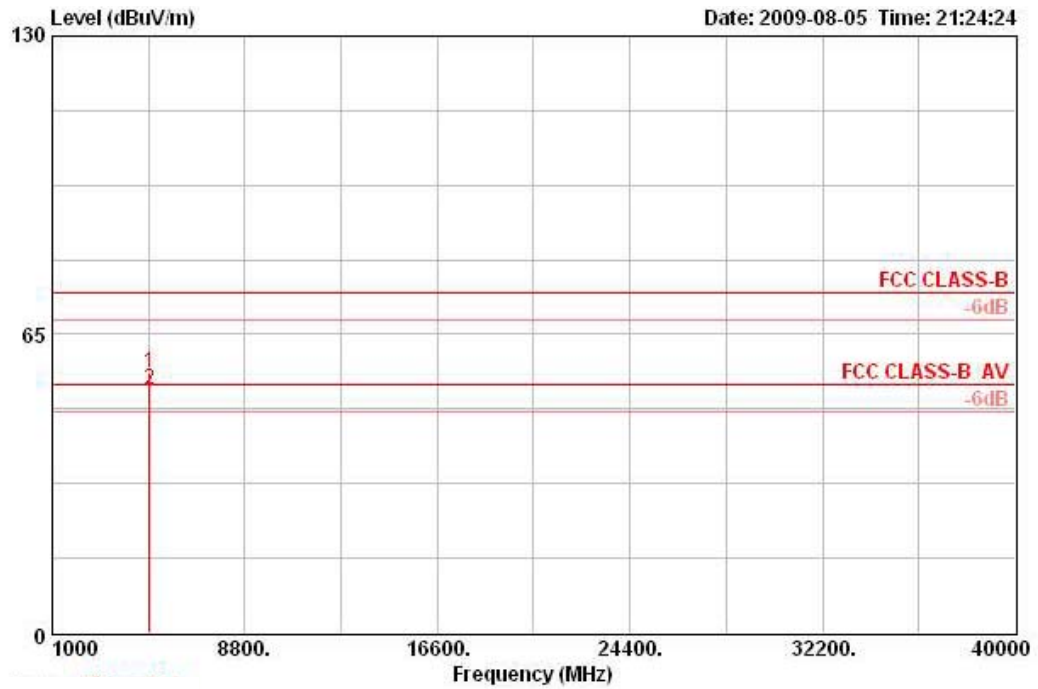
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 11 / Ant. 1

Horizontal



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4923.968	44.97	-9.03	54.00	39.87	33.58	35.20	6.73	AVERAGE	HORIZONTAL	154	165
2	4924.036	51.53	-22.47	74.00	46.42	33.58	35.20	6.73	PEAK	HORIZONTAL	154	165

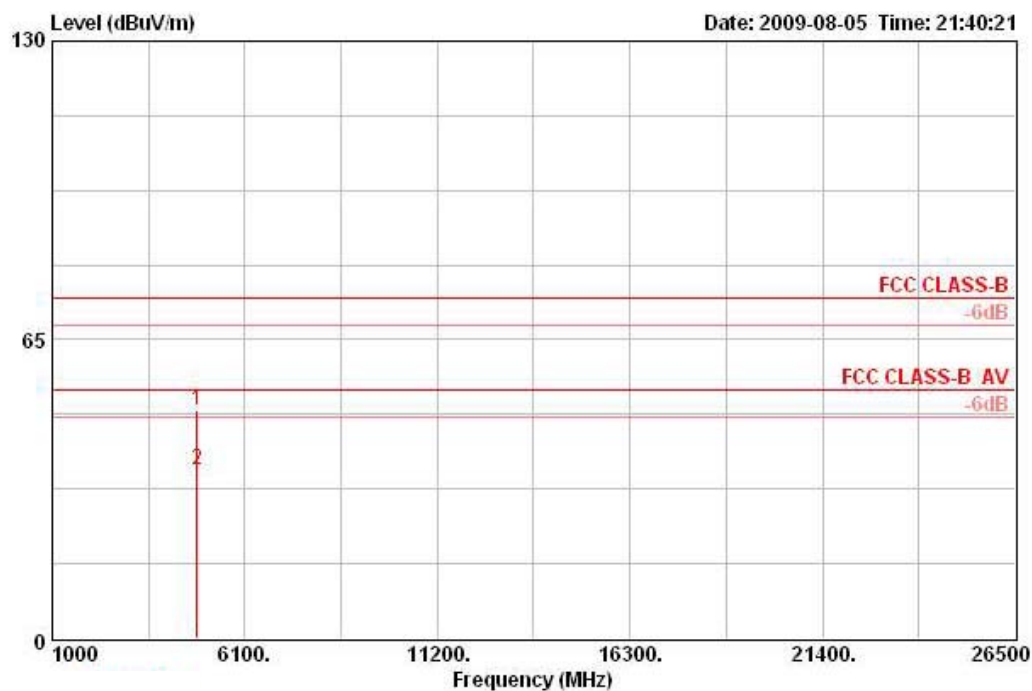
Vertical



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4923.988	56.51	-17.49	74.00	51.40	33.58	35.20	6.73	PEAK	VERTICAL	197	102
2	4924.016	53.02	-0.98	54.00	47.92	33.58	35.20	6.73	AVERAGE	VERTICAL	197	102

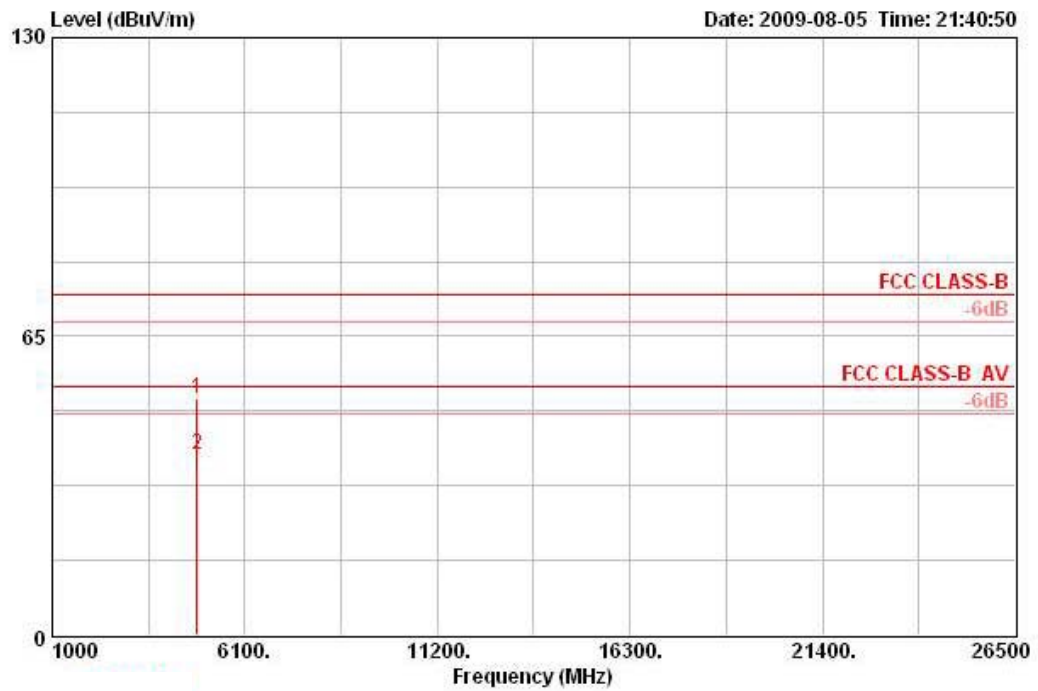
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 1 / Ant. 1

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4823.990	49.53	-24.47	74.00	44.96	33.39	35.20	6.39 PEAK	HORIZONTAL	31	100
2	4823.992	36.65	-17.35	54.00	32.07	33.39	35.20	6.39 AVERAGE	HORIZONTAL	31	100

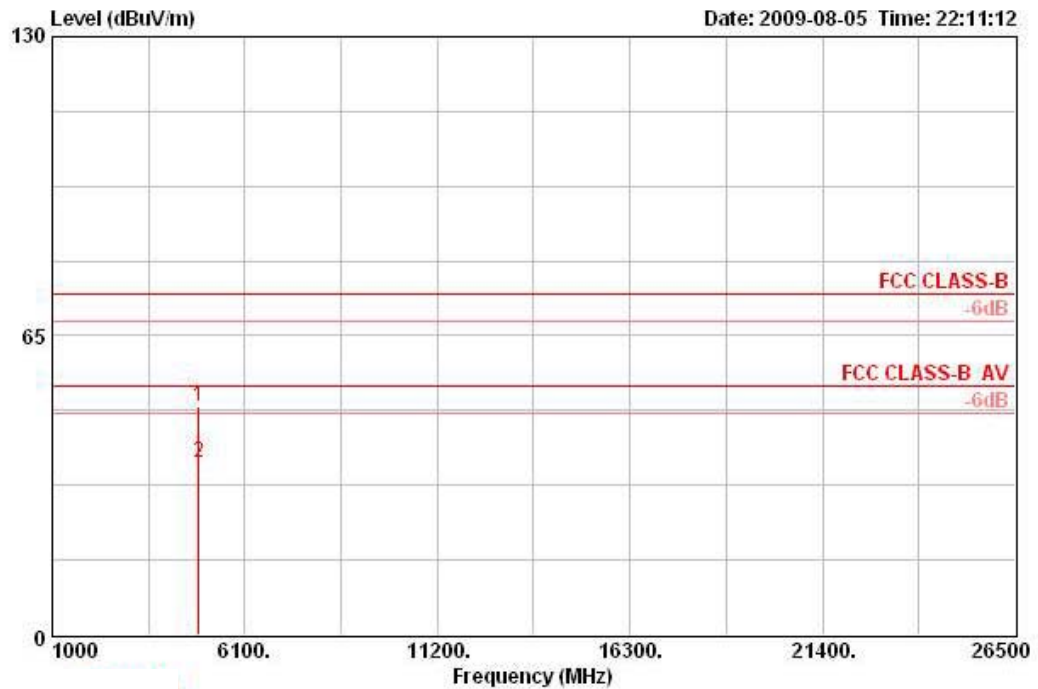
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4824.000	51.57	-22.43	74.00	46.99	33.39	35.20	6.39 PEAK	VERTICAL	112	100
2	4824.011	39.29	-14.71	54.00	34.71	33.39	35.20	6.39 AVERAGE	VERTICAL	112	100

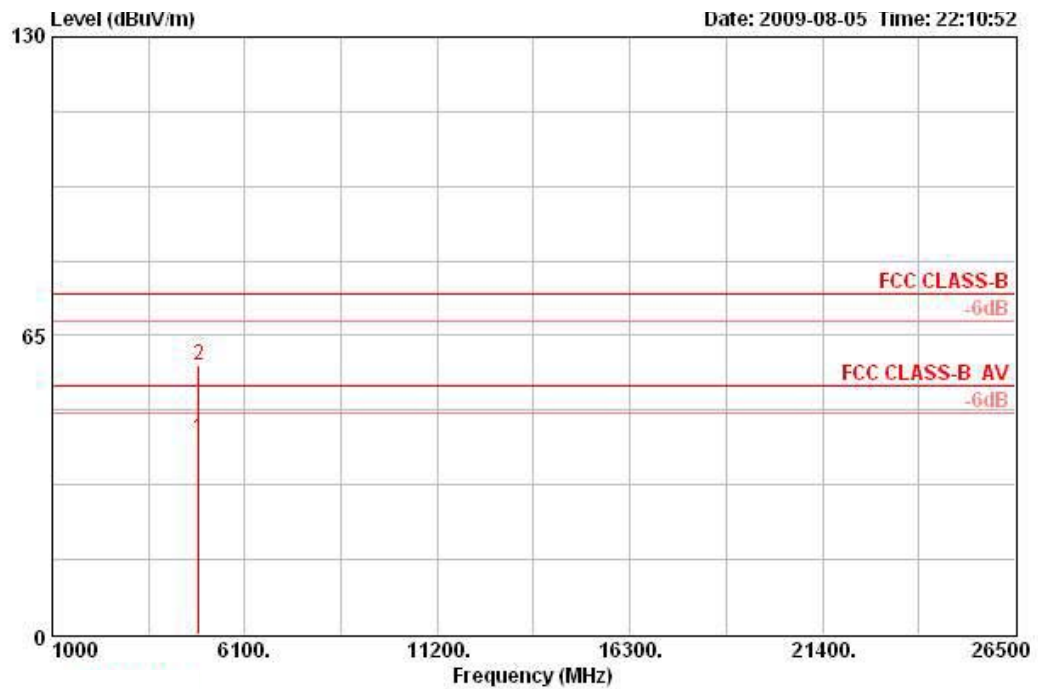
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 6 / Ant. 1

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	4873.985	49.57	-24.43	74.00	44.72	33.48	35.20	6.56 PEAK	HORIZONTAL	157	100
2	4874.025	37.26	-16.74	54.00	32.42	33.48	35.20	6.56 AVERAGE	HORIZONTAL	157	100

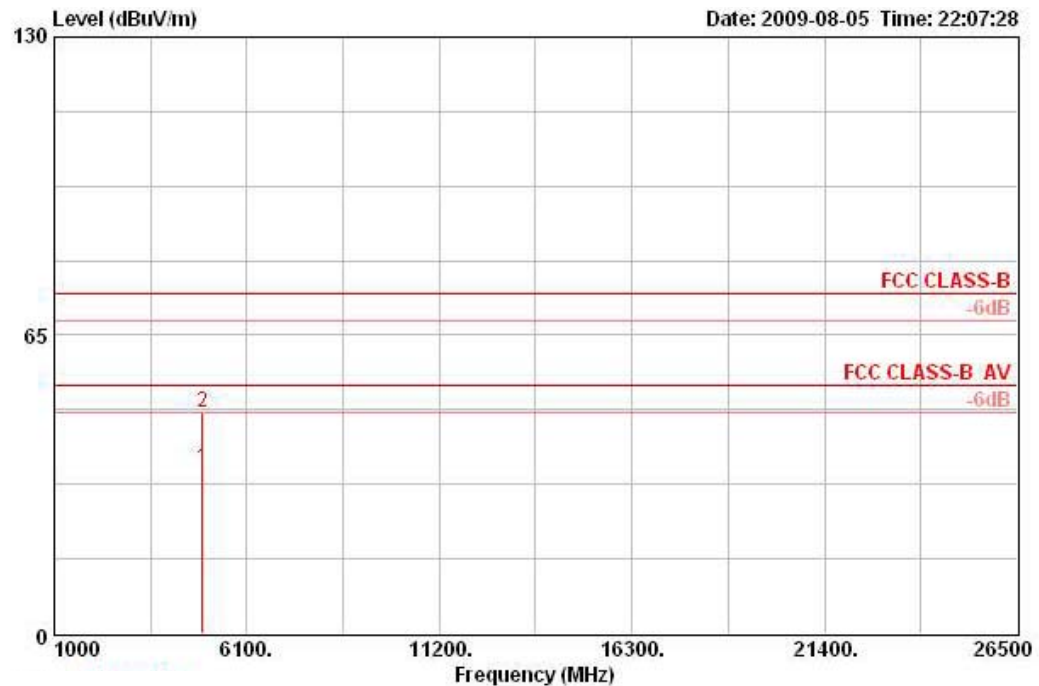
Vertical



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4873.915	42.64	-11.36	54.00	37.80	33.48	35.20	6.56	AVERAGE	VERTICAL	182	100
2	4873.927	58.64	-15.36	74.00	53.80	33.48	35.20	6.56	PEAK	VERTICAL	182	100

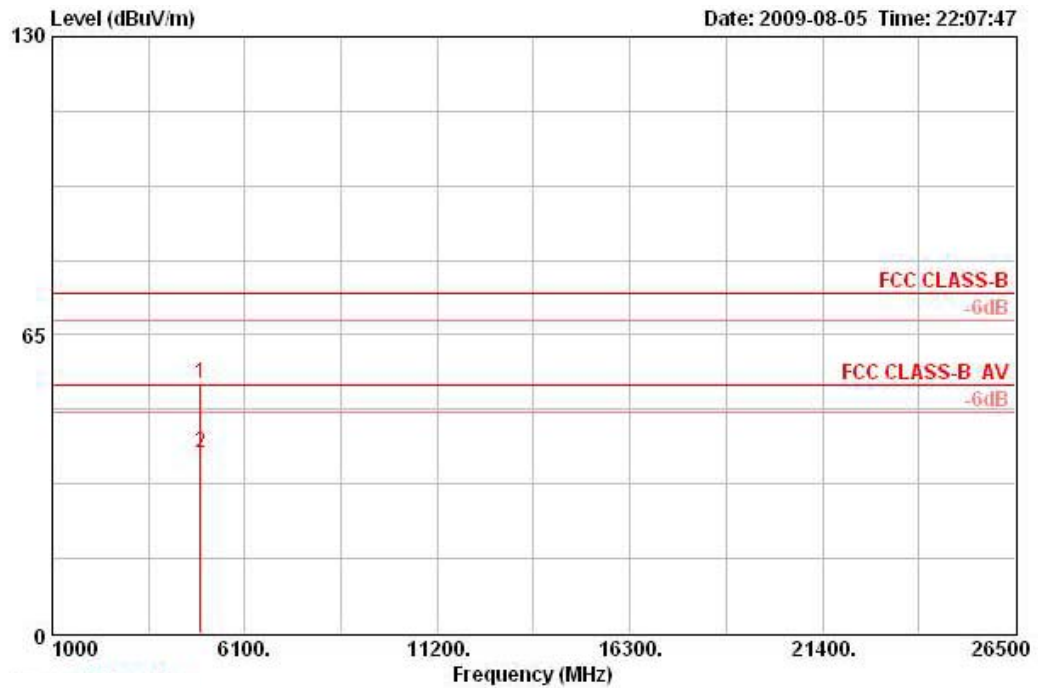
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 11 / Ant. 1

Horizontal



	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable			Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	4924.024	35.91	-18.09	54.00	30.80	33.58	35.20	6.73	AVERAGE	246	100
2	4924.024	48.24	-25.76	74.00	43.13	33.58	35.20	6.73	PEAK	246	100

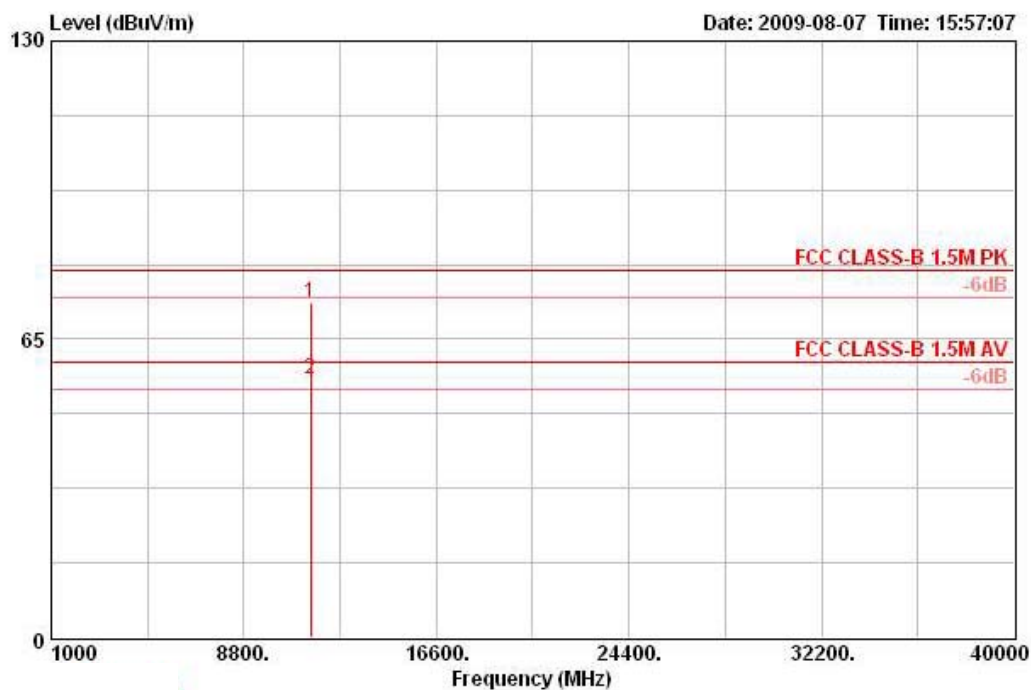
Vertical



	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4923.997	54.29	-19.71	74.00	49.18	33.58	35.20	6.73	PEAK	VERTICAL	200	100
2	4924.024	39.30	-14.70	54.00	34.19	33.58	35.20	6.73	AVERAGE	VERTICAL	200	100

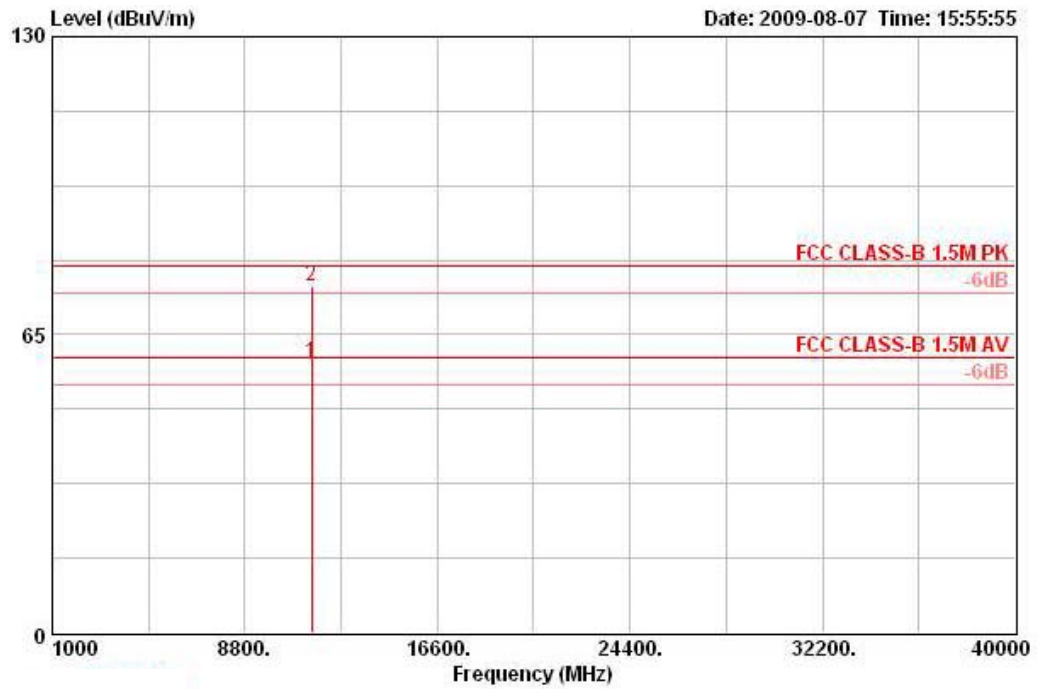
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a CH 149 / Ant. 1

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV	dB/m	dB			deg	cm
1	11490.000	72.98	-7.02	80.00	57.68	39.50	35.09	10.90 PEAK	HORIZONTAL	330	100
2	11490.030	56.29	-3.71	60.00	40.98	39.50	35.09	10.90 AVERAGE	HORIZONTAL	330	100

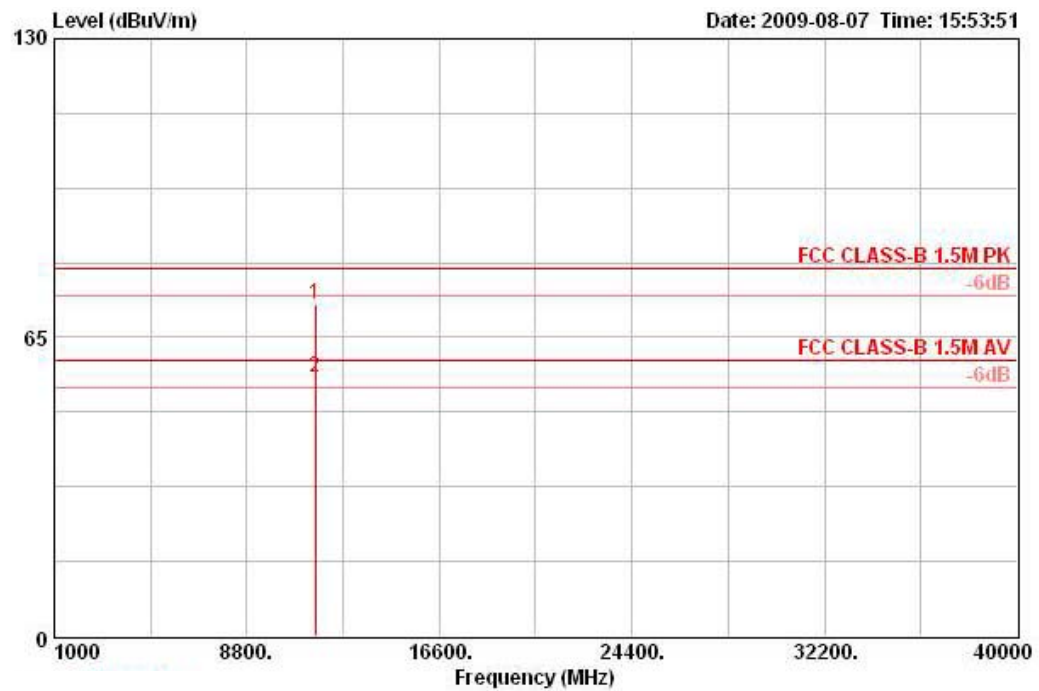
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	11489.990	58.90	-1.10	60.00	43.59	39.50	35.09	10.90	AVERAGE	VERTICAL	316
2	11490.020	75.37	-4.63	80.00	60.06	39.50	35.09	10.90	PEAK	VERTICAL	316

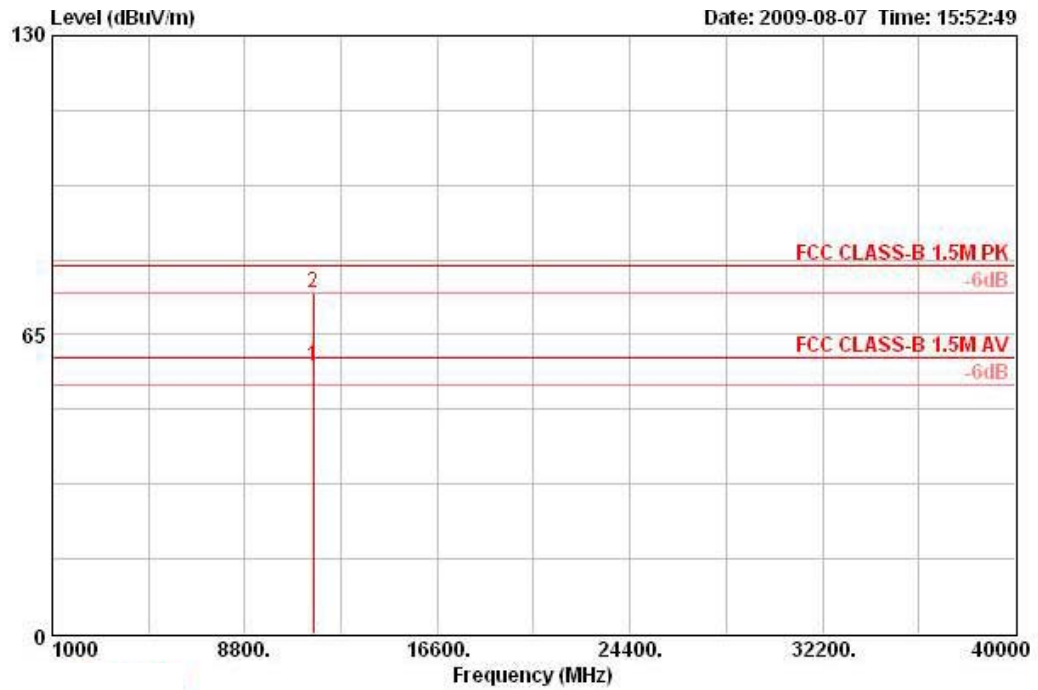
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a CH 157 / Ant. 1

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	11569.980	72.17	-7.83	80.00	56.93	39.47	35.09	10.86 PEAK	HORIZONTAL	333	100
2	11570.010	56.22	-3.78	60.00	40.98	39.47	35.09	10.86 AVERAGE	HORIZONTAL	333	100

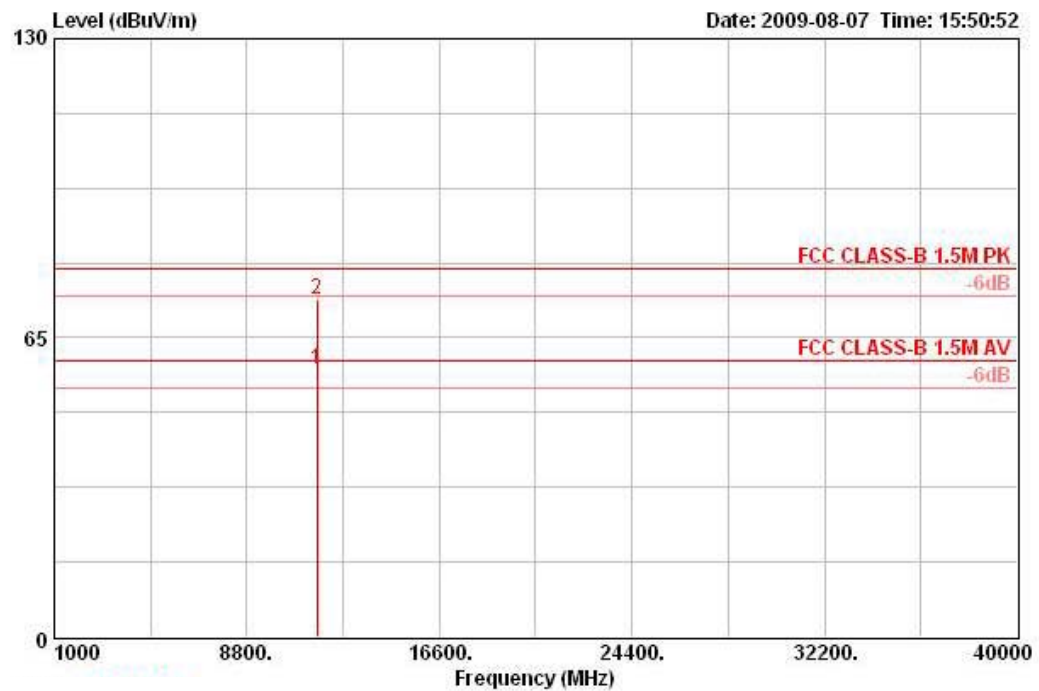
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			deg	cm
1	11569.970	58.30	-1.70	60.00	43.05	39.47	35.09	10.86 AVERAGE	VERTICAL	316	100
2	11569.990	74.22	-5.78	80.00	58.97	39.47	35.09	10.86 PEAK	VERTICAL	316	100

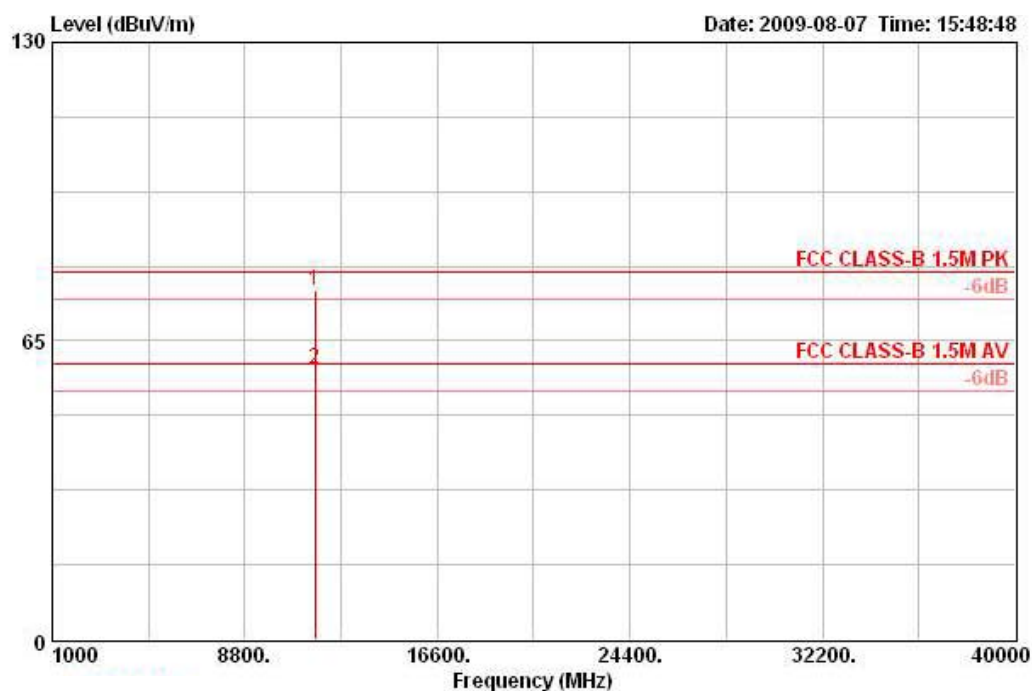
Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a CH 165 / Ant. 1

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 @	11649.970	58.08	-1.92	60.00	42.99	39.44	35.07	10.72	AVERAGE	HORIZONTAL	333	100
2	11649.990	73.45	-6.55	80.00	58.35	39.44	35.07	10.72	PEAK	HORIZONTAL	333	100

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 !	11650.010	75.76	-4.24	80.00	60.66	39.44	35.07	10.72	PEAK	VERTICAL	316	103
2 !	11650.030	58.77	-1.23	60.00	43.67	39.44	35.07	10.72	AVERAGE	VERTICAL	316	103

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)	1 MHz / 1 MHz 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

- The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
- 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

Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 20MHz Ch 1, 6, 11 / Ant. 1 + Ant. 2
Test date	Aug. 05, 2009		

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 ☒	2389.800	71.14	-2.86	74.00	40.21	28.05	0.00	2.88	PEAK	VERTICAL	318	100
2 ☒	2390.000	53.08	-0.92	54.00	22.15	28.05	0.00	2.88	AVERAGE	VERTICAL	318	100
3 ☒	2417.000	93.10			62.12	28.09	0.00	2.90	AVERAGE	VERTICAL	318	100
4 ☒	2419.000	106.60			75.61	28.09	0.00	2.90	PEAK	VERTICAL	318	100

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	2389.801	63.61	-10.39	74.00	32.68	28.05	0.00	2.88	PEAK	VERTICAL	346	129
2 ☒	2390.000	50.52	-3.48	54.00	19.59	28.05	0.00	2.88	AVERAGE	VERTICAL	346	129
3 ☒	2440.400	103.96			72.89	28.18	0.00	2.90	AVERAGE	VERTICAL	346	129
4 ☒	2442.400	115.53			84.44	28.18	0.00	2.91	PEAK	VERTICAL	346	129
5 ☒	2483.500	52.56	-1.44	54.00	21.37	28.26	0.00	2.93	AVERAGE	VERTICAL	346	129
6	2483.699	66.14	-7.86	74.00	34.96	28.26	0.00	2.93	PEAK	VERTICAL	346	129

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

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 ☒	2466.200	107.23			76.11	28.22	0.00	2.91	PEAK	VERTICAL	164	100
2 ☒	2466.400	96.27			65.12	28.22	0.00	2.93	AVERAGE	VERTICAL	164	100
3 ☒	2483.500	53.01	-0.99	54.00	21.82	28.26	0.00	2.93	AVERAGE	VERTICAL	164	100
4	2484.500	66.58	-7.42	74.00	35.40	28.26	0.00	2.93	PEAK	VERTICAL	164	100

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

Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS8 40MHz Ch 3, 6, 9 / Ant. 1 + Ant. 2
Test date	Aug. 05, 2009		

Channel 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	2388.000	65.49	-8.51	74.00	34.58	28.05	0.00	2.86	PEAK	VERTICAL	126	128
2 ☺	2390.000	53.27	-0.73	54.00	22.34	28.05	0.00	2.88	AVERAGE	VERTICAL	126	128
3 ☺	2436.000	101.68			70.65	28.13	0.00	2.90	PEAK	VERTICAL	126	128
4 ☺	2436.800	89.43			58.35	28.18	0.00	2.90	AVERAGE	VERTICAL	126	128

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

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	2390.000	66.01	-7.99	74.00	35.08	28.05	0.00	2.88	PEAK	VERTICAL	347	100
2 ☺	2390.000	51.79	-2.21	54.00	20.86	28.05	0.00	2.88	AVERAGE	VERTICAL	347	100
3 ☺	2449.000	105.28			74.19	28.18	0.00	2.91	PEAK	VERTICAL	347	100
4 ☺	2450.600	93.52			62.43	28.18	0.00	2.91	AVERAGE	VERTICAL	347	100
5 ☺	2483.500	53.70	-0.30	54.00	22.52	28.26	0.00	2.93	AVERAGE	VERTICAL	347	100
6	2485.900	67.10	-6.90	74.00	35.92	28.26	0.00	2.93	PEAK	VERTICAL	347	100

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

Channel 9

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 ☺	2462.800	96.50			65.37	28.22	0.00	2.91	PEAK	HORIZONTAL	212	100
2 ☺	2464.800	85.97			54.84	28.22	0.00	2.91	AVERAGE	HORIZONTAL	212	100
3 !	2483.500	48.20	-5.80	54.00	17.02	28.26	0.00	2.93	AVERAGE	HORIZONTAL	212	100
4	2485.500	60.01	-13.99	74.00	28.83	28.26	0.00	2.93	PEAK	HORIZONTAL	212	100

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

Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 1, 6, 11 / Ant. 1
Test Date	Aug. 05, 2009		

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	2389.400	61.00	-13.00	74.00	30.09	28.05	0.00	2.86	PEAK	VERTICAL	151	130
2 !	2390.000	50.08	-3.92	54.00	19.15	28.05	0.00	2.88	AVERAGE	VERTICAL	151	130
3 ☺	2409.400	103.08			72.11	28.09	0.00	2.88	AVERAGE	VERTICAL	151	130
4 ☺	2409.600	105.69			74.72	28.09	0.00	2.88	PEAK	VERTICAL	151	130

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

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	2389.000	54.83	-19.17	74.00	23.91	28.05	0.00	2.86	PEAK	VERTICAL	149	131
2	2390.000	44.62	-9.38	54.00	13.69	28.05	0.00	2.88	AVERAGE	VERTICAL	149	131
3 ☺	2439.000	106.62			75.55	28.18	0.00	2.90	PEAK	VERTICAL	149	131
4 ☺	2439.800	103.32			72.25	28.18	0.00	2.90	AVERAGE	VERTICAL	149	131
5	2483.500	45.33	-8.67	54.00	14.15	28.26	0.00	2.93	AVERAGE	VERTICAL	149	131
6	2483.500	54.59	-19.41	74.00	23.41	28.26	0.00	2.93	PEAK	VERTICAL	149	131

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

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 ☺	2459.400	102.78			71.65	28.22	0.00	2.91	AVERAGE	VERTICAL	176	106
2 ☺	2464.600	105.89			74.76	28.22	0.00	2.91	PEAK	VERTICAL	176	106
3 ☺	2483.500	51.38	-2.62	54.00	20.20	28.26	0.00	2.93	AVERAGE	VERTICAL	176	106
4	2483.700	60.74	-13.26	74.00	29.55	28.26	0.00	2.93	PEAK	VERTICAL	176	106

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

Temperature	24.3°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 1, 6, 11 / Ant. 1
Test Date	Aug. 05, 2009		

Channel 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 ☺	2389.000	70.42	-3.58	74.00	39.50	28.05	0.00	2.86	PEAK	VERTICAL	125	132
2 ☺	2390.000	53.92	-0.08	54.00	22.98	28.05	0.00	2.88	AVERAGE	VERTICAL	125	132
3 ☺	2407.400	107.30			76.33	28.09	0.00	2.88	PEAK	VERTICAL	125	132
4 ☺	2408.000	97.74			66.77	28.09	0.00	2.88	AVERAGE	VERTICAL	125	132

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

Channel 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	2389.800	60.24	-13.76	74.00	29.31	28.05	0.00	2.88	PEAK	VERTICAL	149	100
2	2390.000	47.01	-6.99	54.00	16.08	28.05	0.00	2.88	AVERAGE	VERTICAL	149	100
3 ☺	2440.200	113.19			82.12	28.18	0.00	2.90	PEAK	VERTICAL	149	100
4 ☺	2442.200	103.17			72.08	28.18	0.00	2.91	AVERAGE	VERTICAL	149	100
5 ☺	2483.500	51.24	-2.76	54.00	20.05	28.26	0.00	2.93	AVERAGE	VERTICAL	149	100
6	2486.700	63.40	-10.60	74.00	32.21	28.26	0.00	2.93	PEAK	VERTICAL	149	100

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

Channel 11

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 ☺	2465.000	102.08			70.95	28.22	0.00	2.91	PEAK	HORIZONTAL	211	100
2 ☺	2465.200	92.11			60.98	28.22	0.00	2.91	AVERAGE	HORIZONTAL	211	100
3	2483.500	47.95	-6.05	54.00	16.77	28.26	0.00	2.93	AVERAGE	HORIZONTAL	211	100
4	2484.300	62.95	-11.05	74.00	31.76	28.26	0.00	2.93	PEAK	HORIZONTAL	211	100

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

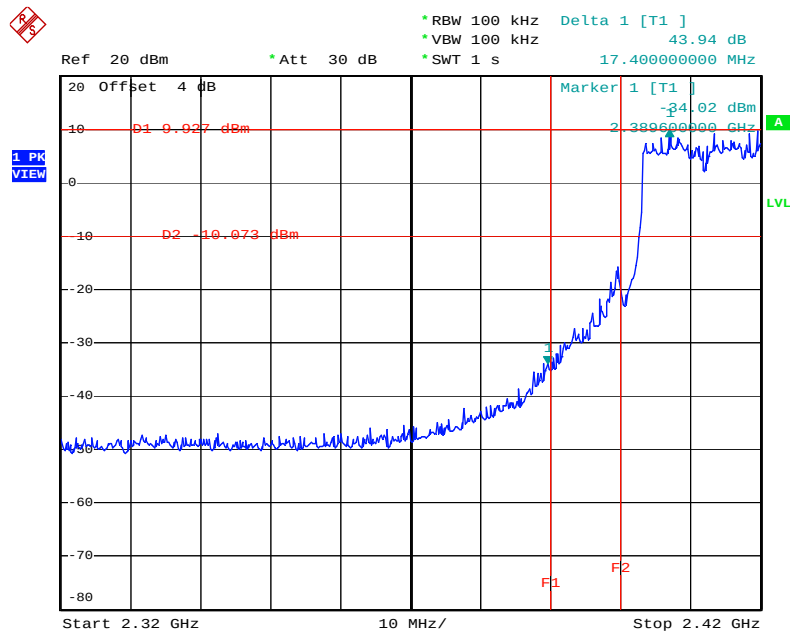
Note:

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

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

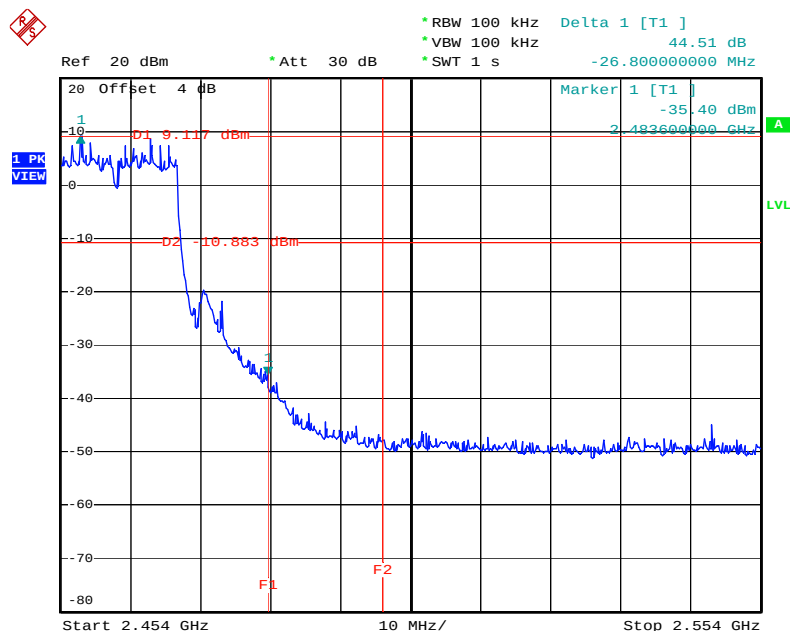
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS0 20MHz Ant. 1 + Ant. 2 / 2412 MHz



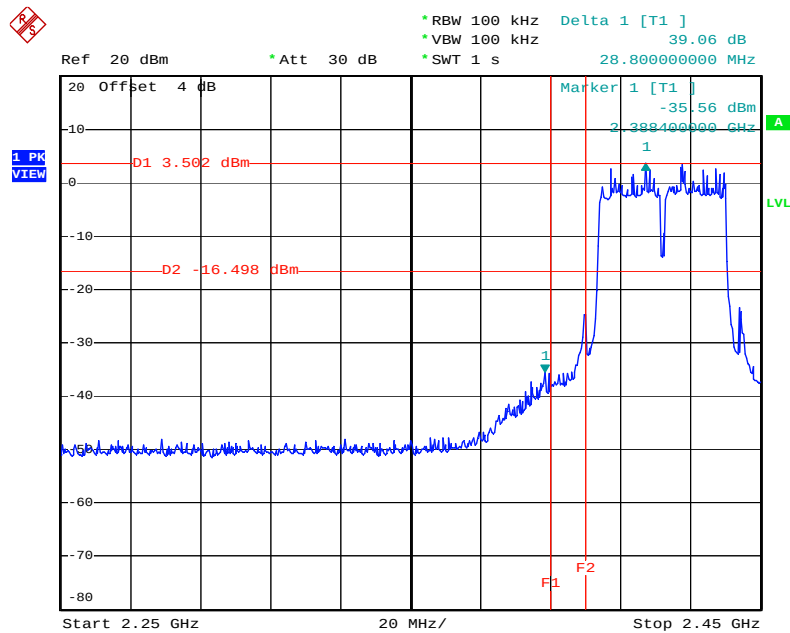
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High Band Edge Plot on Configuration Drafft n MCS0 20MHz Ant. 1 + Ant. 2 / 2462 MHz



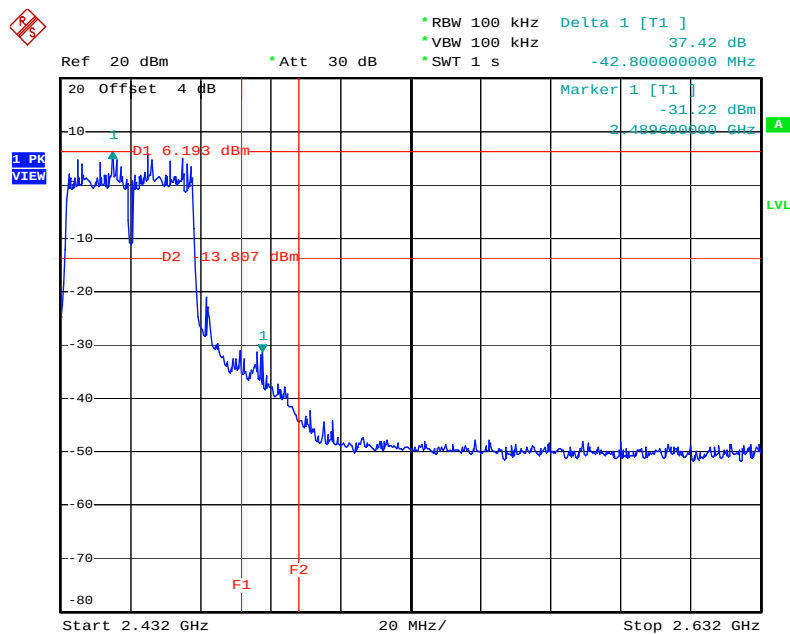
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Low Band Edge Plot on Configuration Drafft n MCS0 40MHz Ant. 1 + Ant. 2 / 2422 MHz



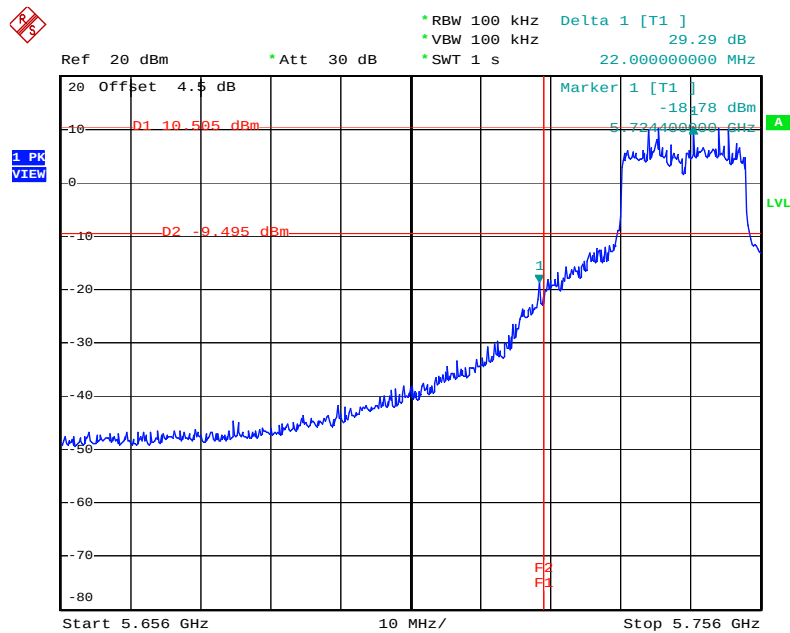
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High Band Edge Plot on Configuration Drafft n MCS0 40MHz Ant. 1 + Ant. 2 / 2452 MHz



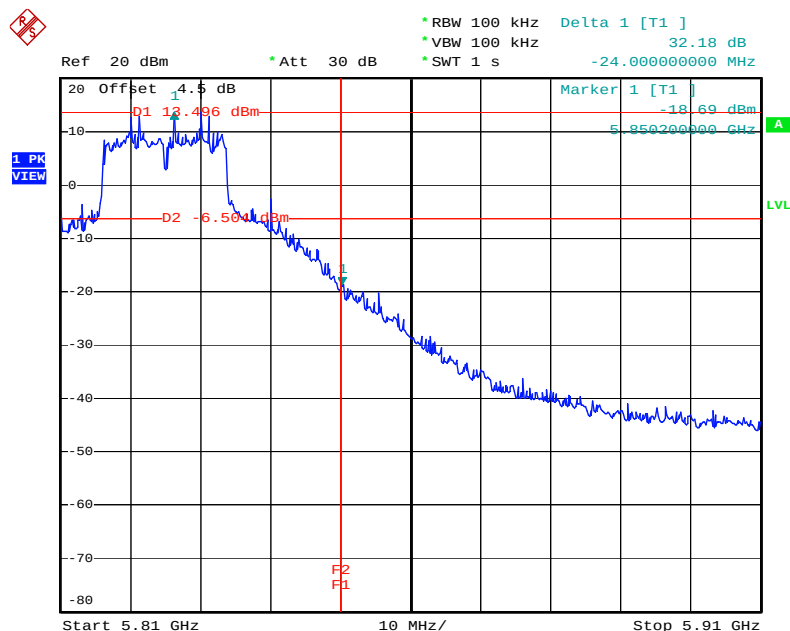
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Low Band Edge Plot on Configuration 11a Draft n MCS0 20MHz Ant. 1 + Ant. 2 / 5745 MHz



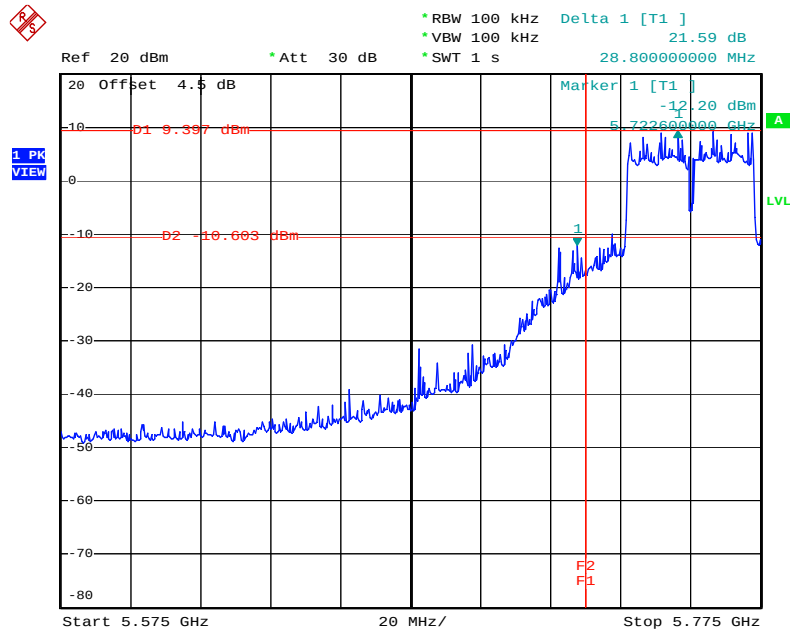
Date: 10.AUG.2009 16:15:47

High Band Edge Plot on Configuration 11a Draft n MCS0 20MHz Ant. 1 + Ant. 2 / 5825 MHz



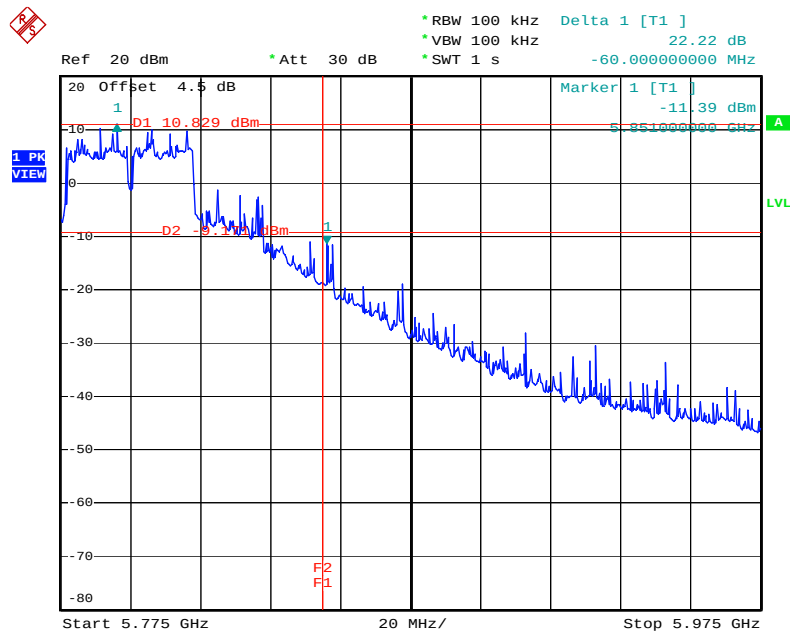
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Low Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 1 + Ant. 2 / 5755 MHz



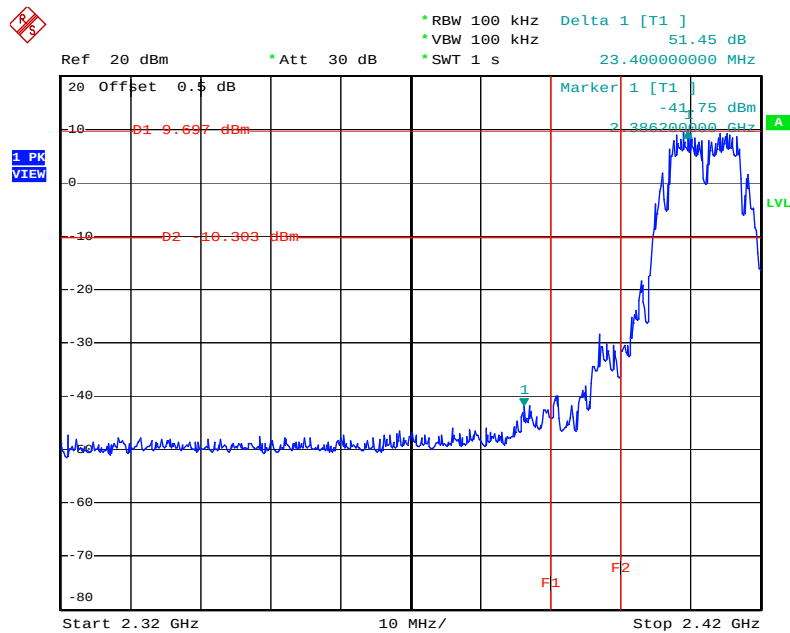
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High Band Edge Plot on Configuration 11a Draft n MCS8 40MHz Ant. 1 + Ant. 2 / 5795 MHz



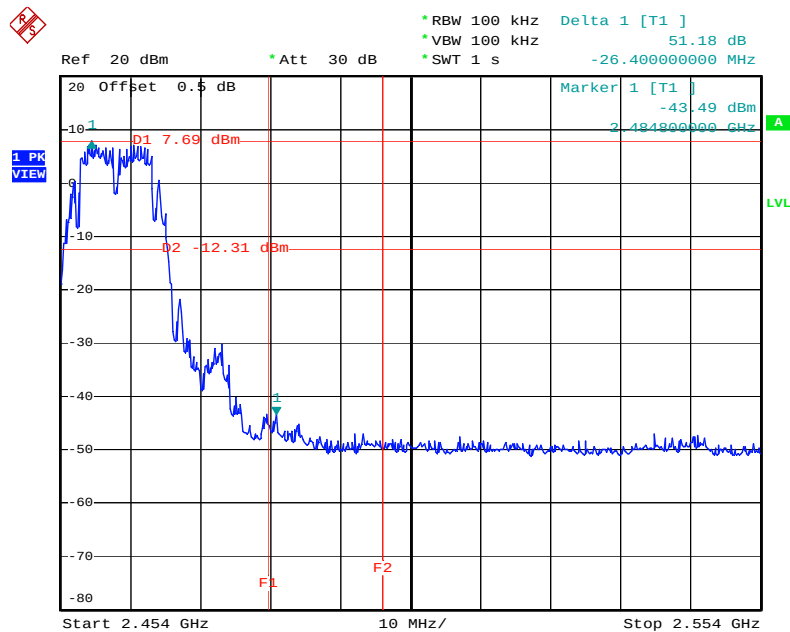
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Low Band Edge Plot on Configuration IEEE 802.11b Ant. 1 / 2412 MHz



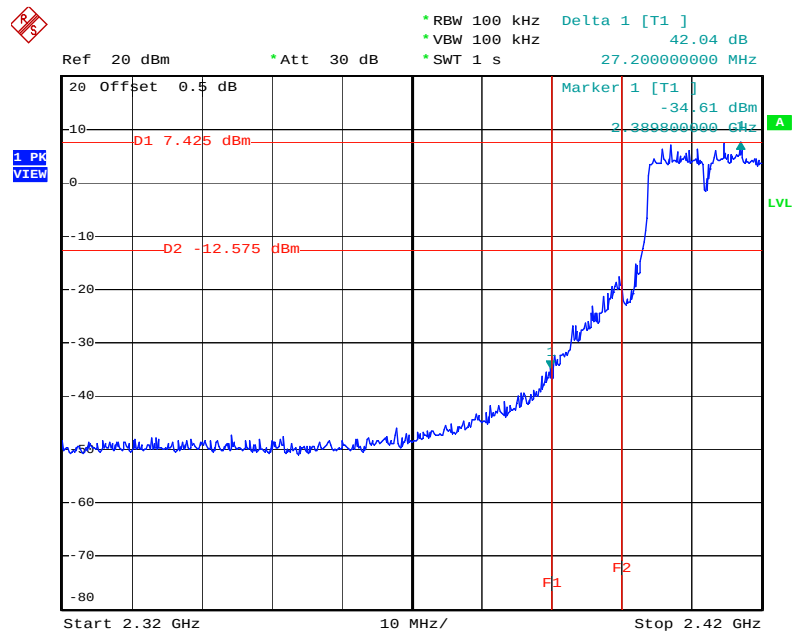
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High Band Edge Plot on Configuration IEEE 802.11b Ant. 1 / 2462 MHz



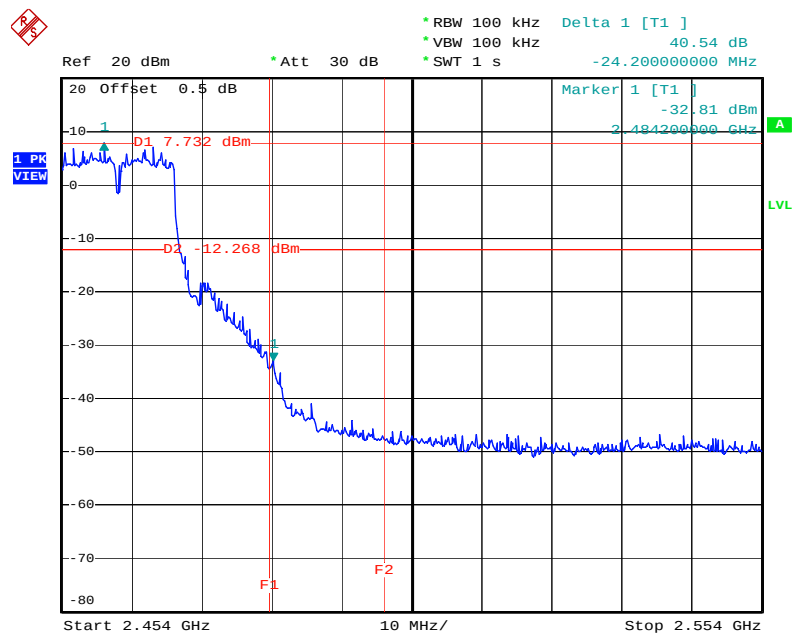
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Low Band Edge Plot on Configuration IEEE 802.11g Ant. 1 / 2412 MHz



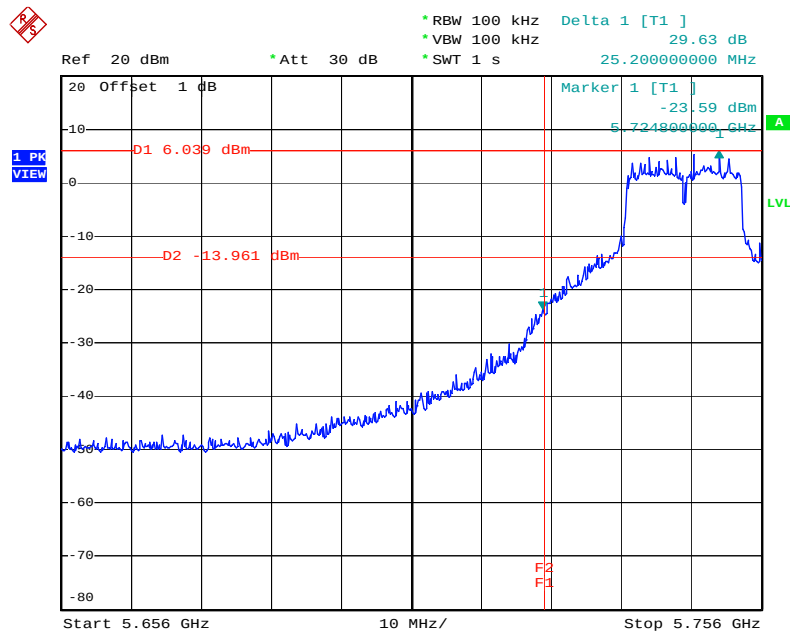
Date: 10.AUG.2009 22:51:46

High Band Edge Plot on Configuration IEEE 802.11g Ant. 1 / 2462 MHz



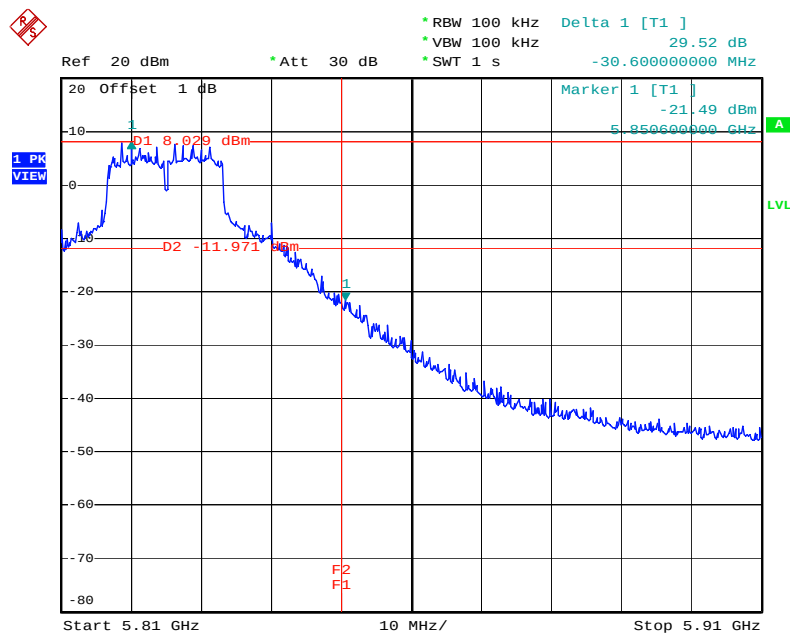
Date: 10.AUG.2009 22:46:35

Low Band Edge Plot on Configuration IEEE 802.11a Ant. 1 / 5745 MHz



Date: 10.AUG.2009 15:39:04

High Band Edge Plot on Configuration IEEE 802.11a Ant. 1 / 5825 MHz



Date: 10.AUG.2009 15:45:32

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. 15, 2009	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 23, 2009	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2009	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2009	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz – 30MHz	Jun. 11, 2009	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, 2009	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 23, 2009	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jul. 21, 2009	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Apr. 06, 2009*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100305	9 kHz - 40 GHz	Feb. 03, 2009	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul. 28, 2008*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 18, 2009	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 28, 2009	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.16, 2009	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Jan. 05, 2009	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Jan. 05, 2009	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. 28, 2008	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 31, 2009	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100666	DC ~ 30GHz	Aug. 05, 2009	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 31, 2009	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, 2009	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Aug. 06, 2009	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2008	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2008	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Feb. 13, 2009	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 25, 2009	Conducted (TH01-HY)

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

Note: *Calibration Interval of instruments listed above is two year.

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 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 728, 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. : LI190-070110

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, 2007 to January 09, 2010
Accredited Scope	: Testing Field, see described in the Appendix Accreditation Program for Designated Testing Laboratory for Commodities Inspection
Specific Accreditation Program	: Accreditation Program for Telecommunication Equipment Testing Laboratory



Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 10, 2007

PI, total 9 pages

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