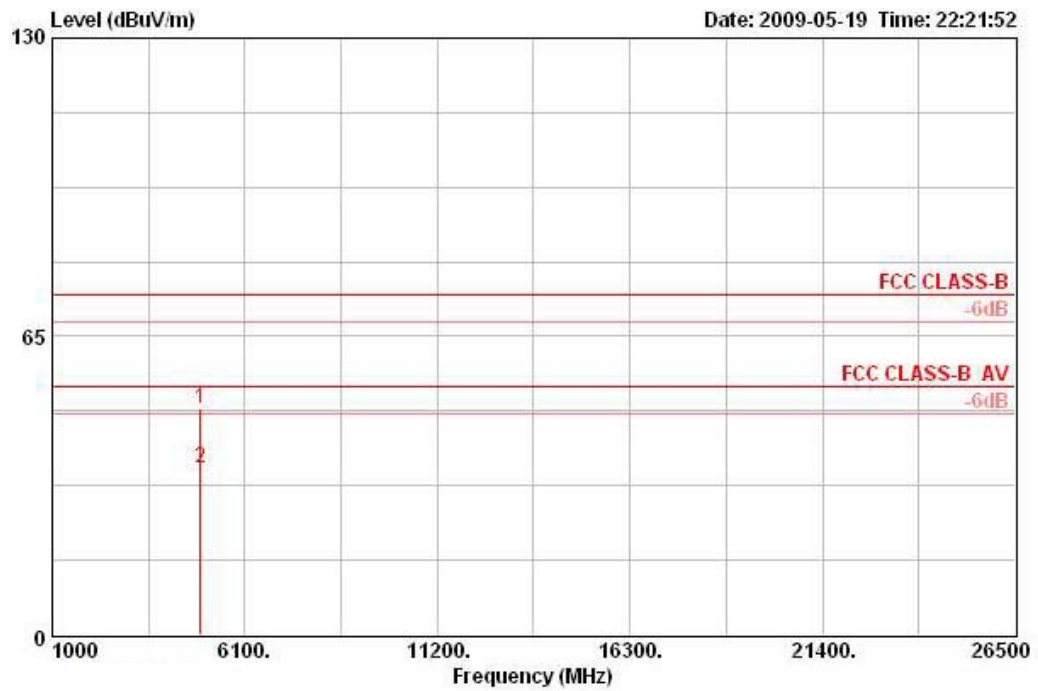


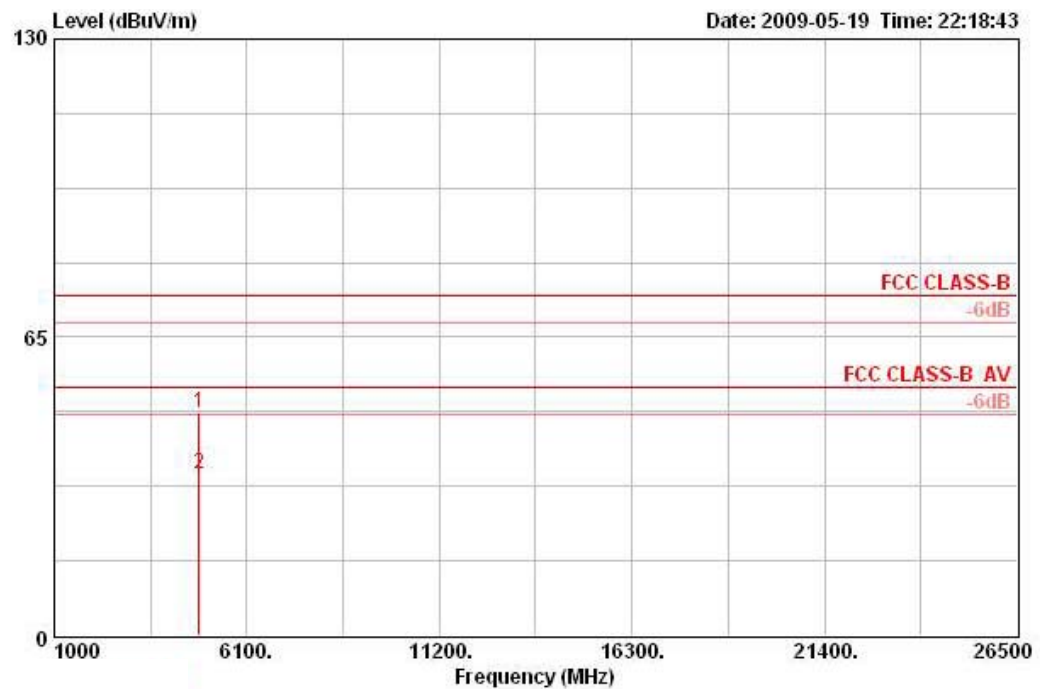
Vertical



	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	4923.998	49.22	-24.78	74.00	44.11	33.58	35.20	6.73	PEAK	360	100
2	4924.003	36.34	-17.66	54.00	31.23	33.58	35.20	6.73	AVERAGE	360	100

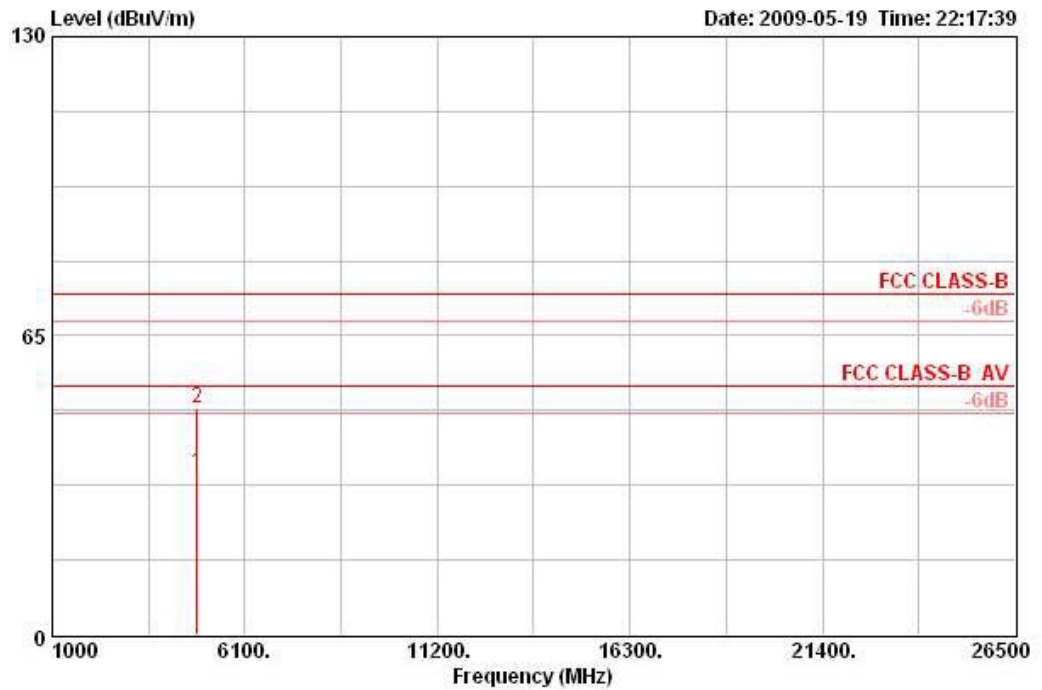
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 3 / Ant. B1 +Ant. B2

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	4843.981	48.33	-25.67	74.00	43.64	33.42	35.20	6.47	PEAK	HORIZONTAL	360	100
2	4844.021	35.19	-18.81	54.00	30.50	33.42	35.20	6.47	AVERAGE	HORIZONTAL	360	100

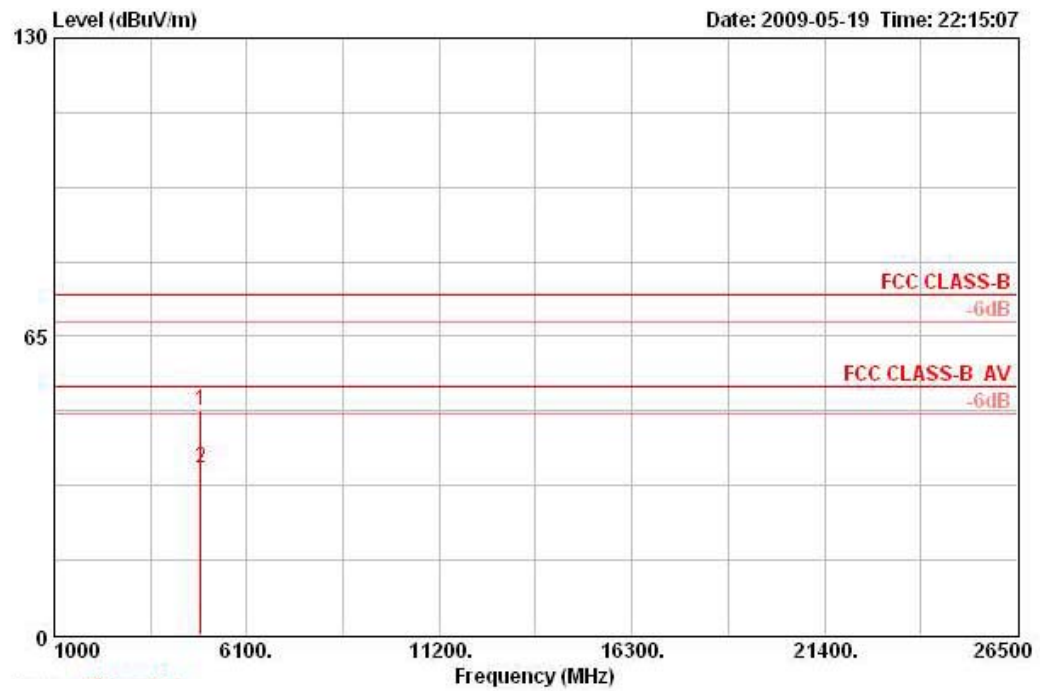
Vertical



	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	4843.977	35.22	-18.78	54.00	30.53	33.42	35.20	6.47	AVERAGE	0	100
2	4844.025	49.32	-24.68	74.00	44.62	33.42	35.20	6.47	PEAK	0	100

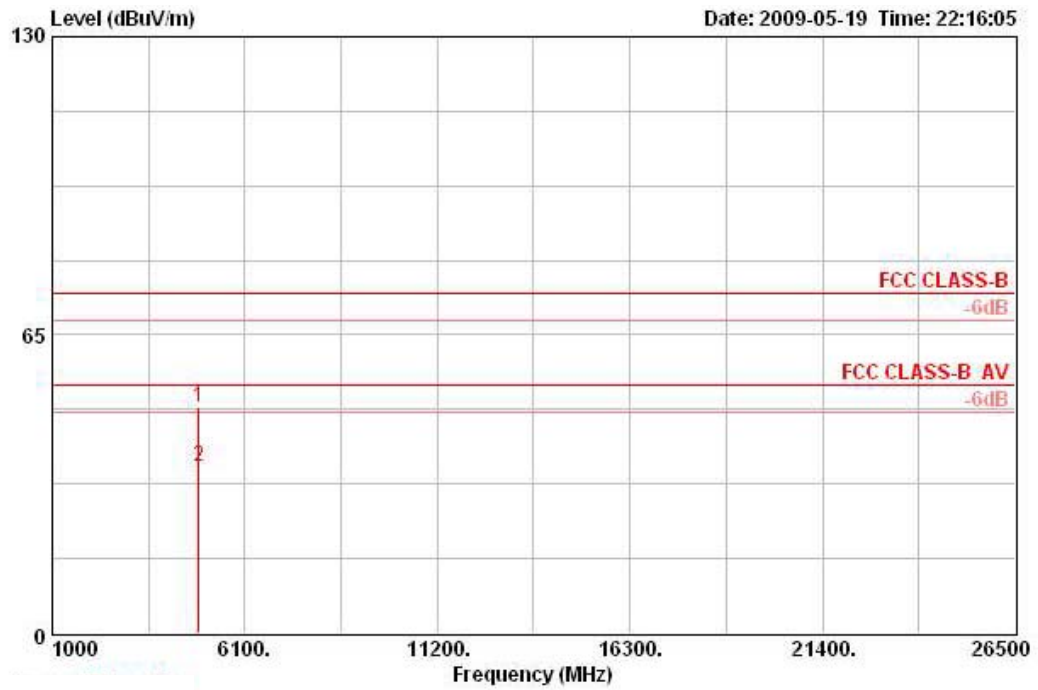
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 6 / Ant. B1 +Ant. B2

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	4874.002	48.77	-25.23	74.00	43.93	33.48	35.20	6.56	PEAK	HORIZONTAL	0	100
2	4874.019	36.29	-17.71	54.00	31.45	33.48	35.20	6.56	AVERAGE	HORIZONTAL	0	100

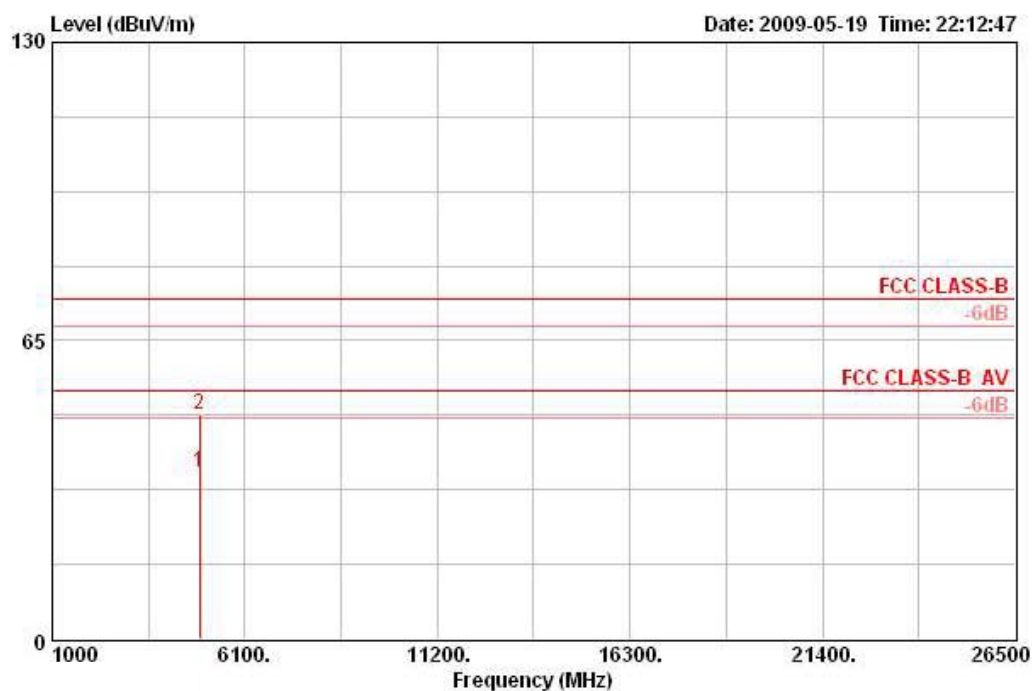
Vertical



	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	4874.005	49.28	-24.72	74.00	44.43	33.48	35.20	6.56	PEAK	VERTICAL	360	100
2	4874.017	36.44	-17.56	54.00	31.60	33.48	35.20	6.56	AVERAGE	VERTICAL	360	100

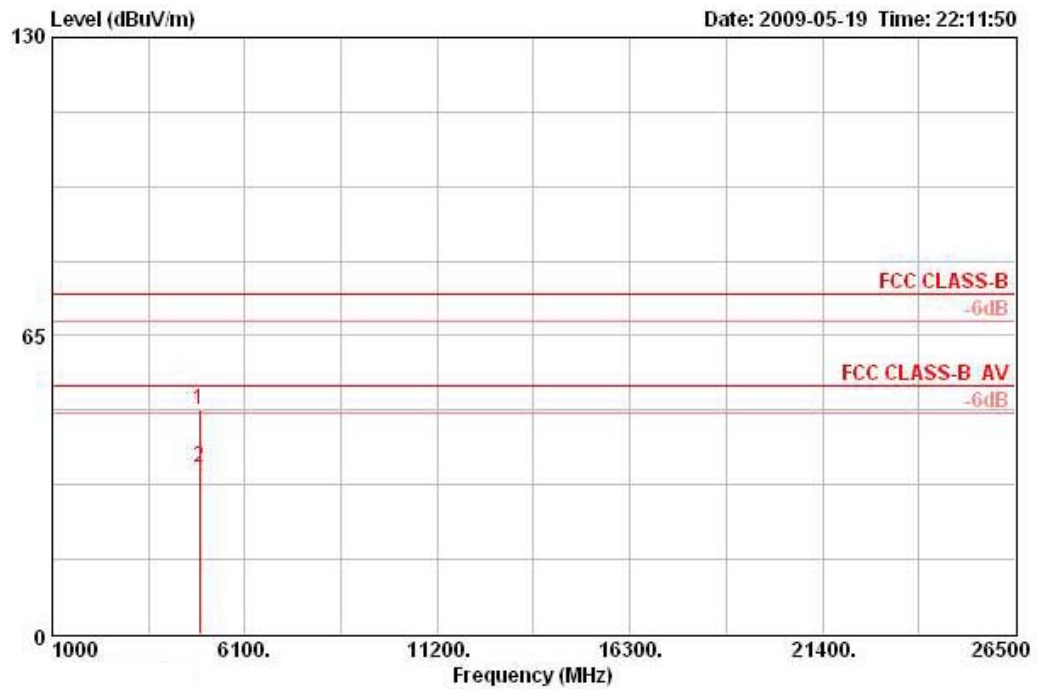
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 9 / Ant. B1 +Ant. B2

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 @	4903.979	36.27	-17.73	54.00	31.28	33.54	35.20	6.65	AVERAGE	HORIZONTAL	0	100
2 @	4903.996	49.01	-24.99	74.00	44.02	33.54	35.20	6.65	PEAK	HORIZONTAL	0	100

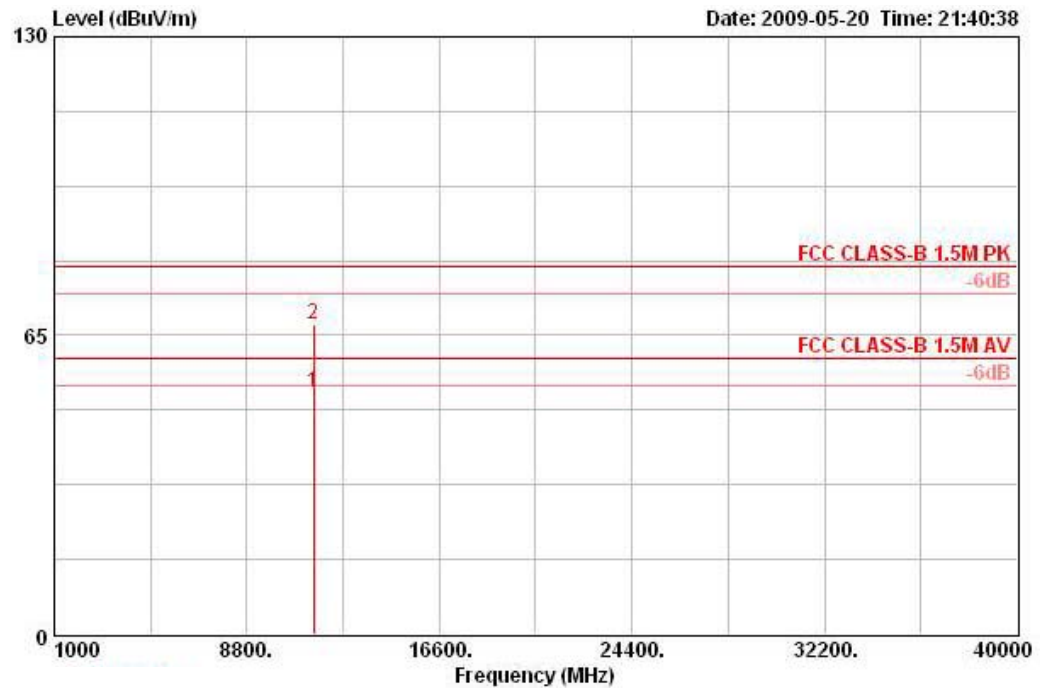
Vertical



	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	4903.979	48.97	-25.03	74.00	43.97	33.54	35.20	6.65	PEAK	360	100
2	4904.013	36.42	-17.58	54.00	31.42	33.54	35.20	6.65	AVERAGE	360	100

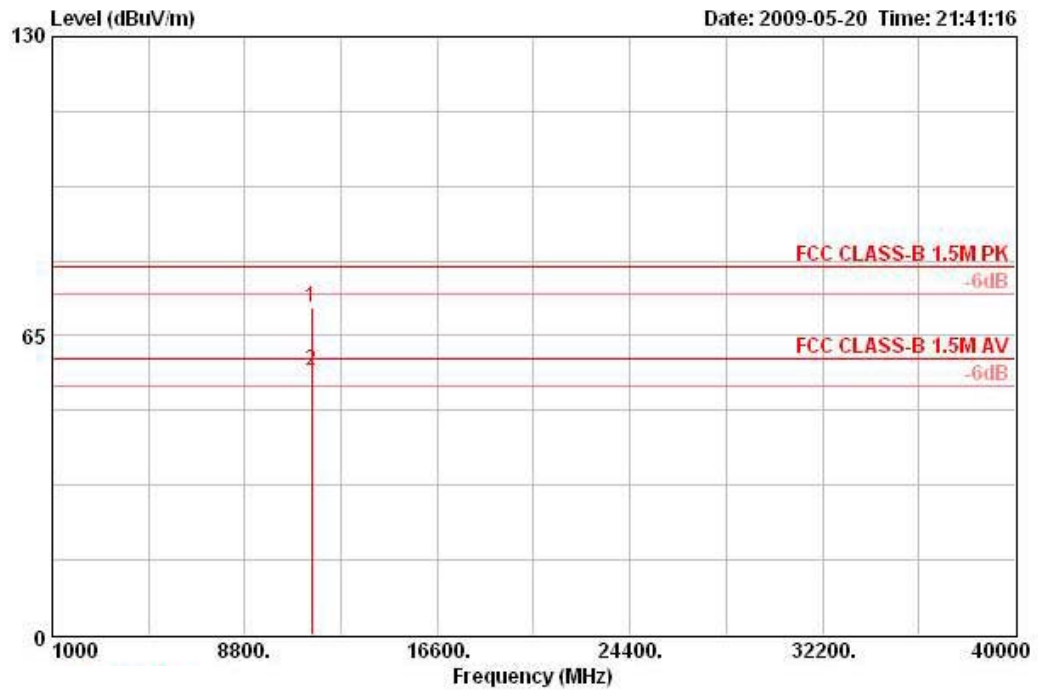
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS0 20MHz CH 149 / Ant. A1 +Ant. A2

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	11489.990	52.50	-7.50	60.00	37.20	39.50	35.09	10.90 AVERAGE	HORIZONTAL	233	100
2	11490.010	67.53	-12.47	80.00	52.22	39.50	35.09	10.90 PEAK	HORIZONTAL	233	100

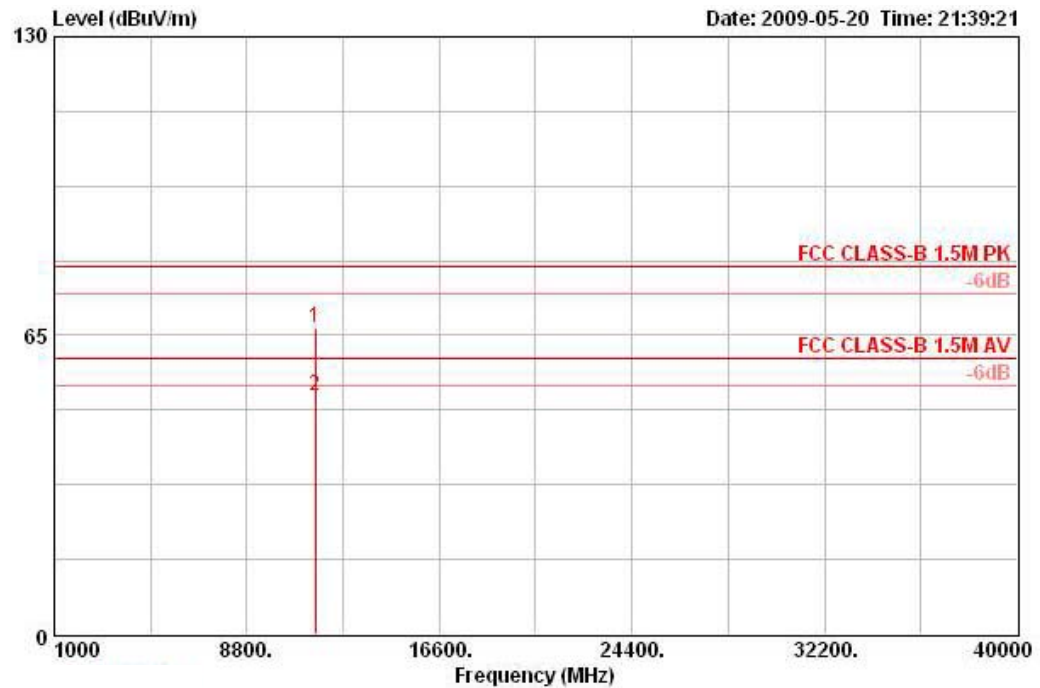
Vertical



	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	71.29	-8.71	80.00	55.98	39.50	35.09	10.90 PEAK	VERTICAL	254	100
2	11490.010	57.58	-2.42	60.00	42.27	39.50	35.09	10.90 AVERAGE	VERTICAL	254	100

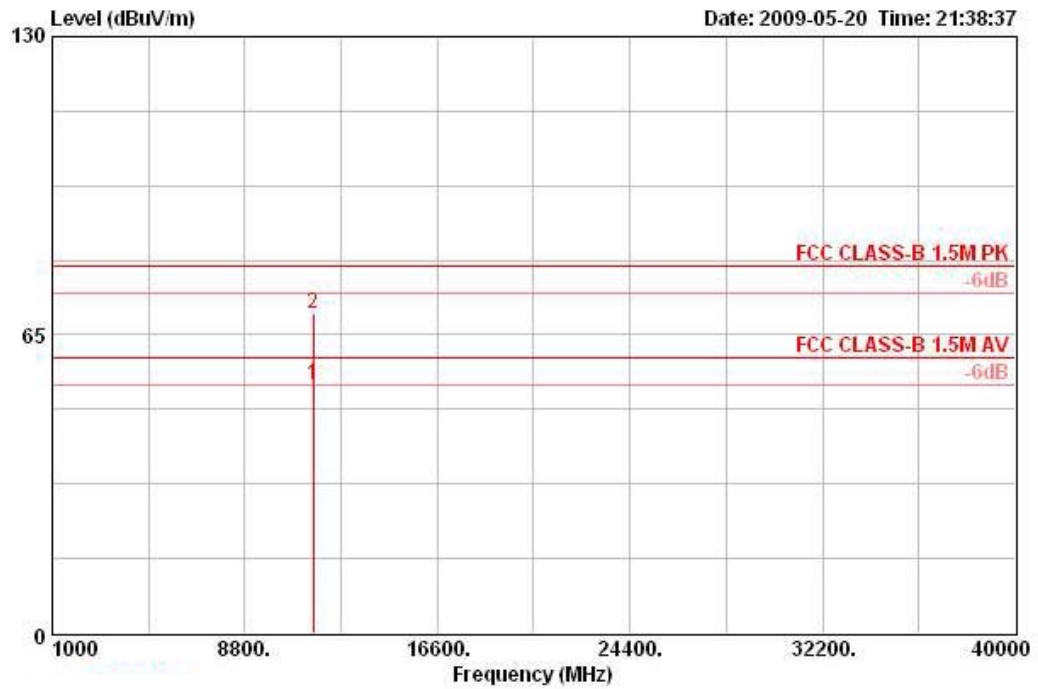
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS0 20MHz CH 157 / Ant. A1 +Ant. A2

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	66.56	-13.44	80.00	51.35	39.47	35.09	10.83 PEAK	HORIZONTAL	232	100
2	11569.990	51.90	-8.10	60.00	36.69	39.47	35.09	10.83 AVERAGE	HORIZONTAL	232	100

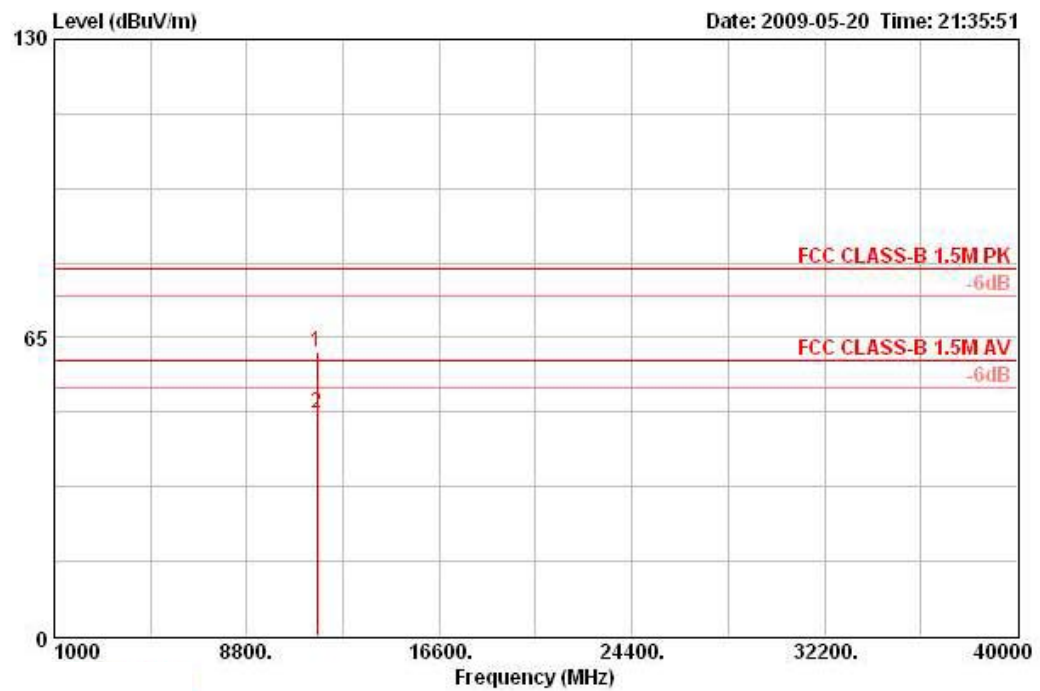
Vertical



	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	11569.980	53.91	-6.09	60.00	38.69	39.47	35.09	10.83 AVERAGE	VERTICAL	254	100
2	11570.000	69.75	-10.25	80.00	54.54	39.47	35.09	10.83 PEAK	VERTICAL	254	100

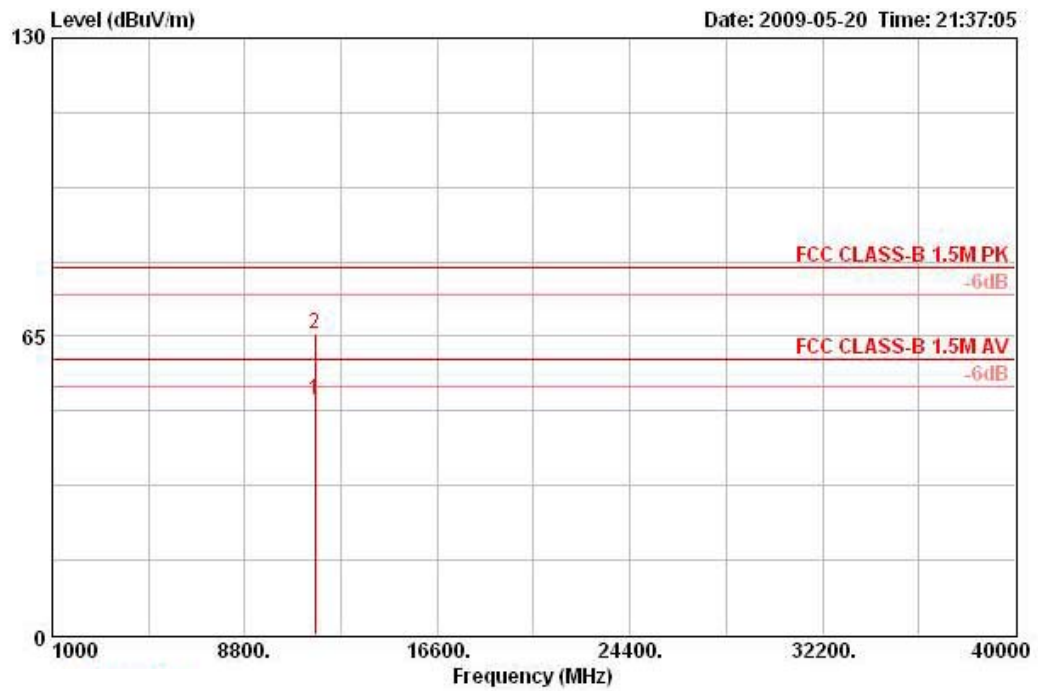
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS0 20MHz CH 165 / Ant. A1 +Ant. A2

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	61.76	-18.24	80.00	46.67	39.44	35.07	10.72	PEAK	HORIZONTAL	232	100
2	11649.990	48.50	-11.50	60.00	33.40	39.44	35.07	10.72	AVERAGE	HORIZONTAL	232	100

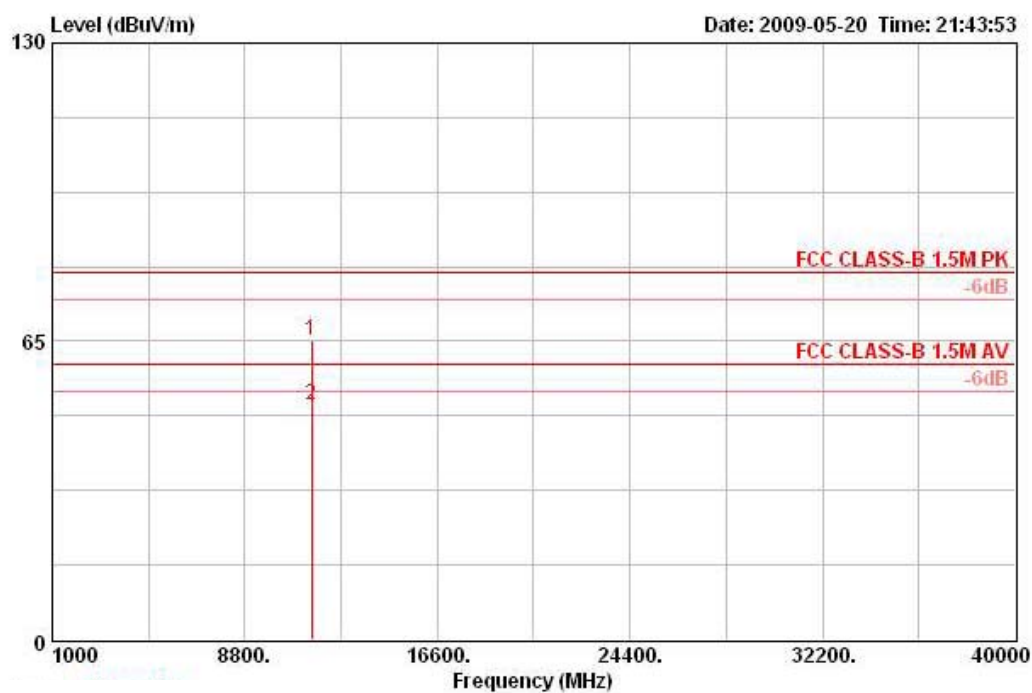
Vertical



	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	11649.990	51.08	-8.92	60.00	35.98	39.44	35.07	10.72	AVERAGE	254	100
2	11650.000	65.38	-14.62	80.00	50.29	39.44	35.07	10.72	PEAK	254	100

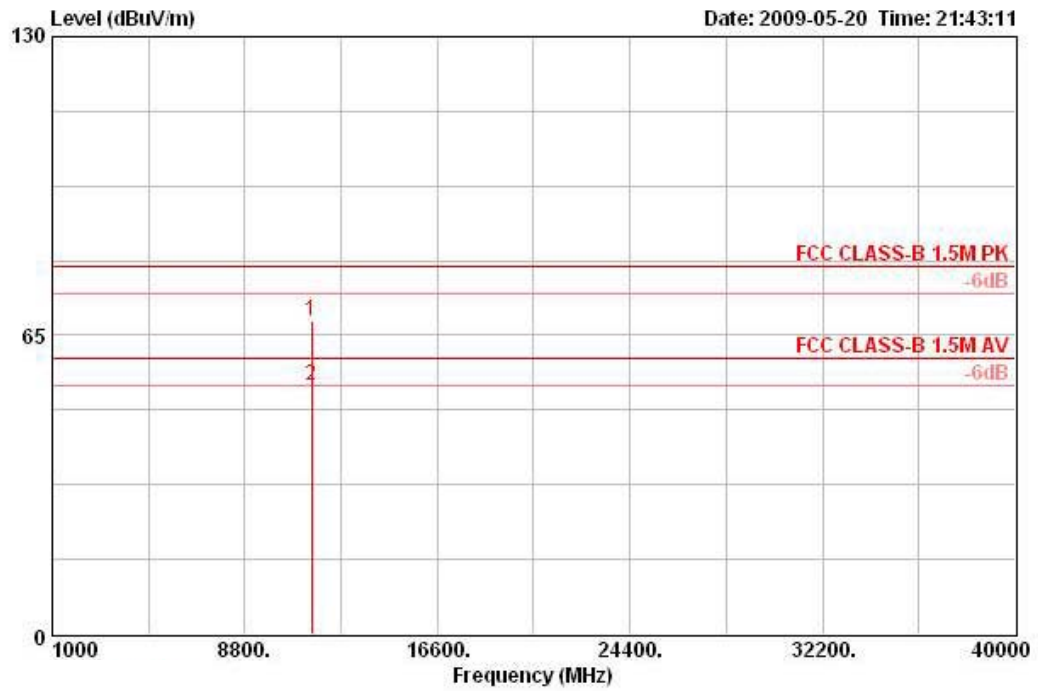
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS0 40MHz CH 151 / Ant. A1 +Ant. A2

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	11510.000	65.20	-14.80	80.00	49.87	39.50	35.10	10.93	PEAK	HORIZONTAL	232	100
2	11510.010	50.98	-9.02	60.00	35.65	39.50	35.10	10.93	AVERAGE	HORIZONTAL	232	100

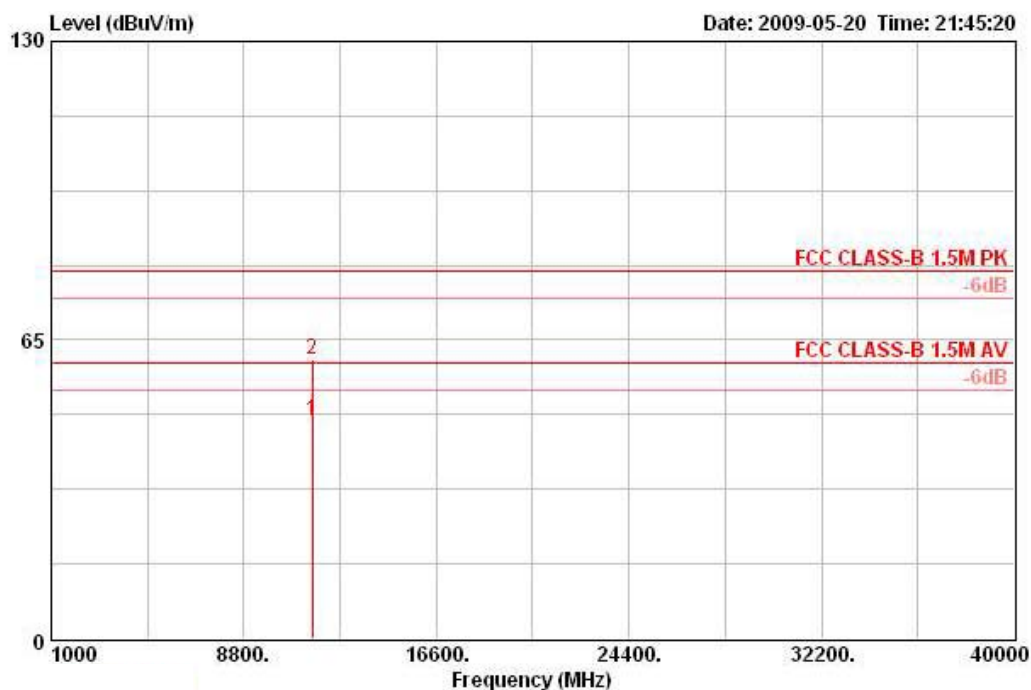
Vertical



	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	11510.000	68.23	-11.77	80.00	52.90	39.50	35.10	10.93 PEAK	VERTICAL	256	100
2	11510.020	53.95	-6.05	60.00	38.62	39.50	35.10	10.93 AVERAGE	VERTICAL	256	100

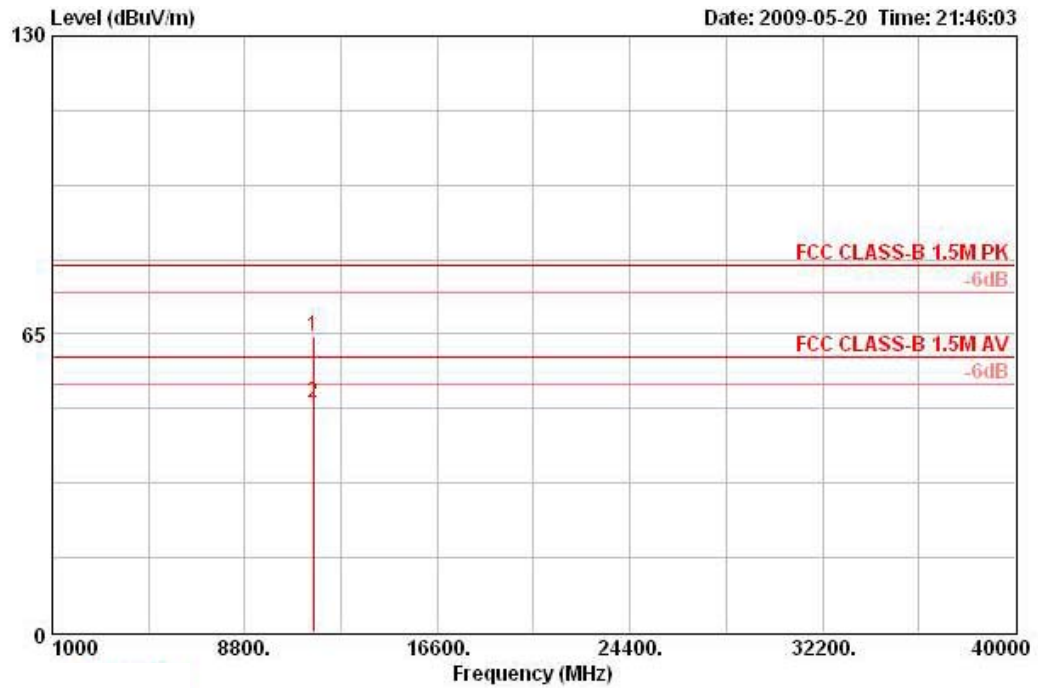
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a Draft n MCS0 40MHz CH 159 / Ant. A1 +Ant. A2

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	dB		deg	cm	
1	11589.990	47.34	-12.66	60.00	32.13	39.47	35.08	10.83	AVERAGE	HORIZONTAL	232	100
2	11590.000	60.62	-19.38	80.00	45.41	39.47	35.08	10.83	PEAK	HORIZONTAL	232	100

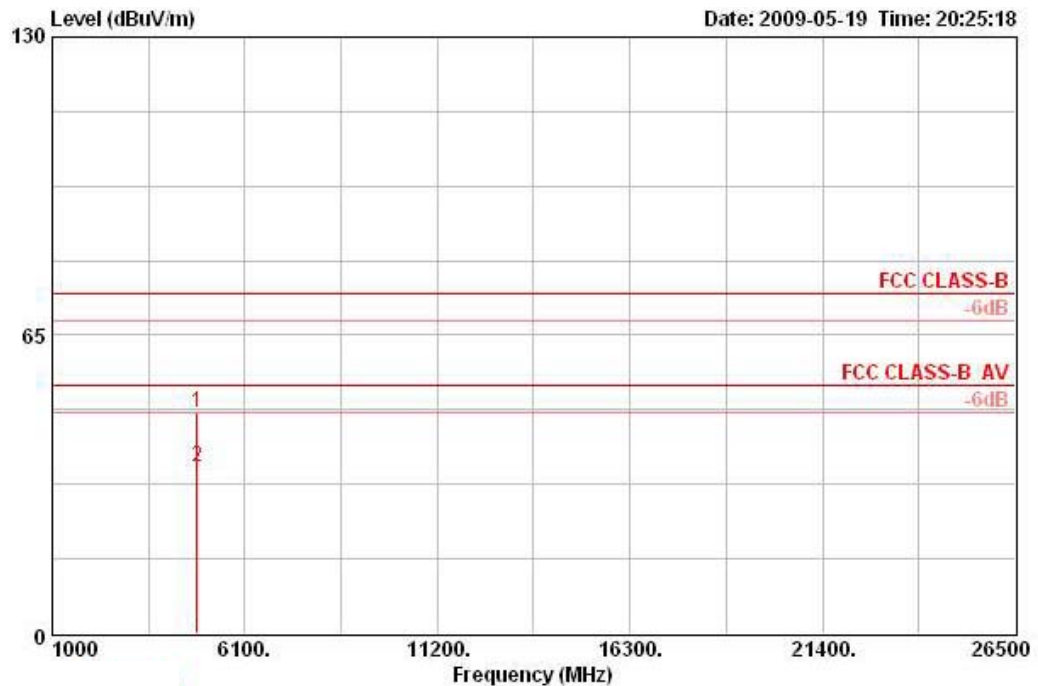
Vertical



	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	11589.990	64.28	-15.72	80.00	49.07	39.47	35.08	10.83	PEAK	VERTICAL	255	100
2	11590.000	49.89	-10.11	60.00	34.68	39.47	35.08	10.83	AVERAGE	VERTICAL	255	6610

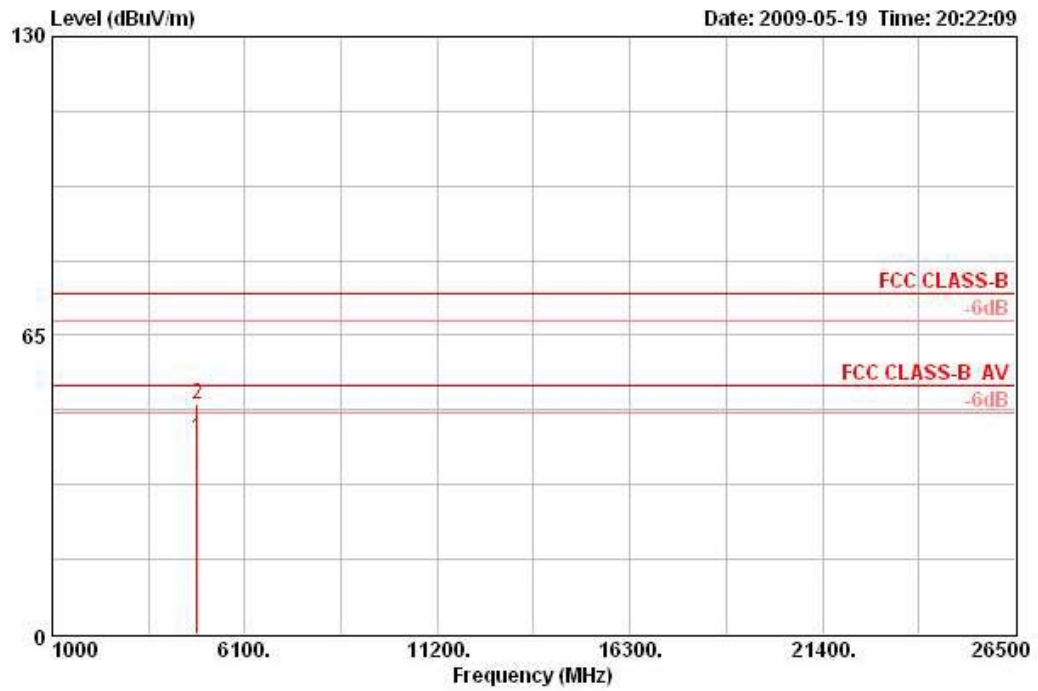
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 1 / Ant. B1 +Ant. B2

Horizontal



			Over	Limit	ReadAntenna	Preamp	Cable	Remark	Pol/Phase	Table	Ant	
	Freq	Level	Limit	Line	Level	Factor	Factor			Loss	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			dB	deg	cm
1	4823.424	48.12	-25.88	74.00	43.54	33.39	35.20	6.39	PEAK	HORIZONTAL	0	100
2	4823.932	36.15	-17.85	54.00	31.57	33.39	35.20	6.39	AVERAGE	HORIZONTAL	0	100

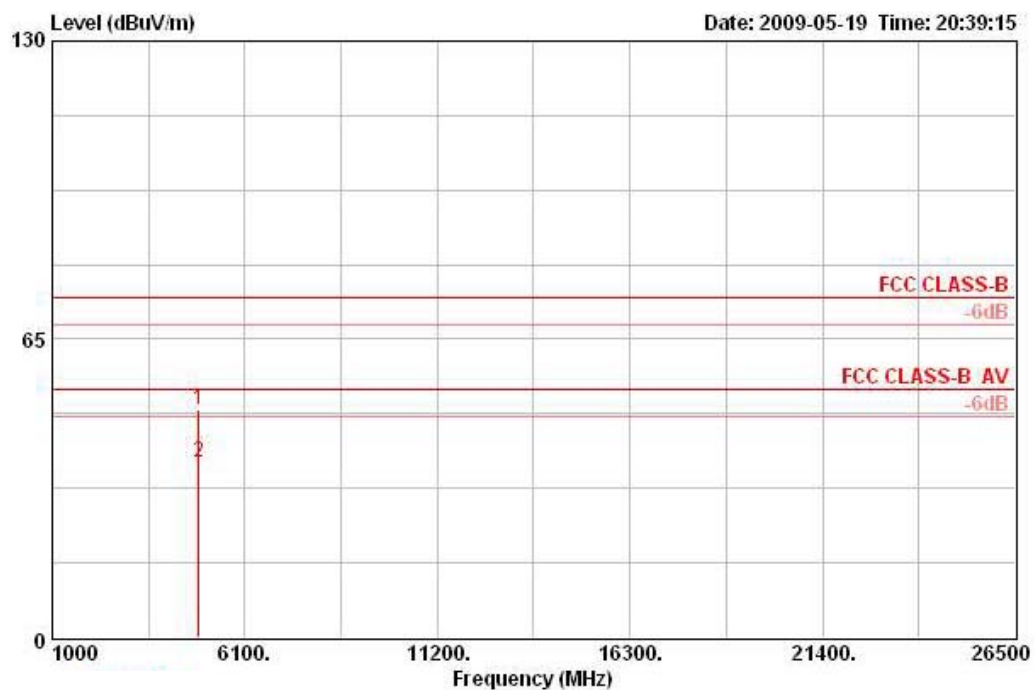
Vertical



	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	4824.008	42.49	-11.51	54.00	37.91	33.39	35.20	6.39 AVERAGE	VERTICAL	232	210
2	4824.180	49.86	-24.14	74.00	45.28	33.39	35.20	6.39 PEAK	VERTICAL	232	210

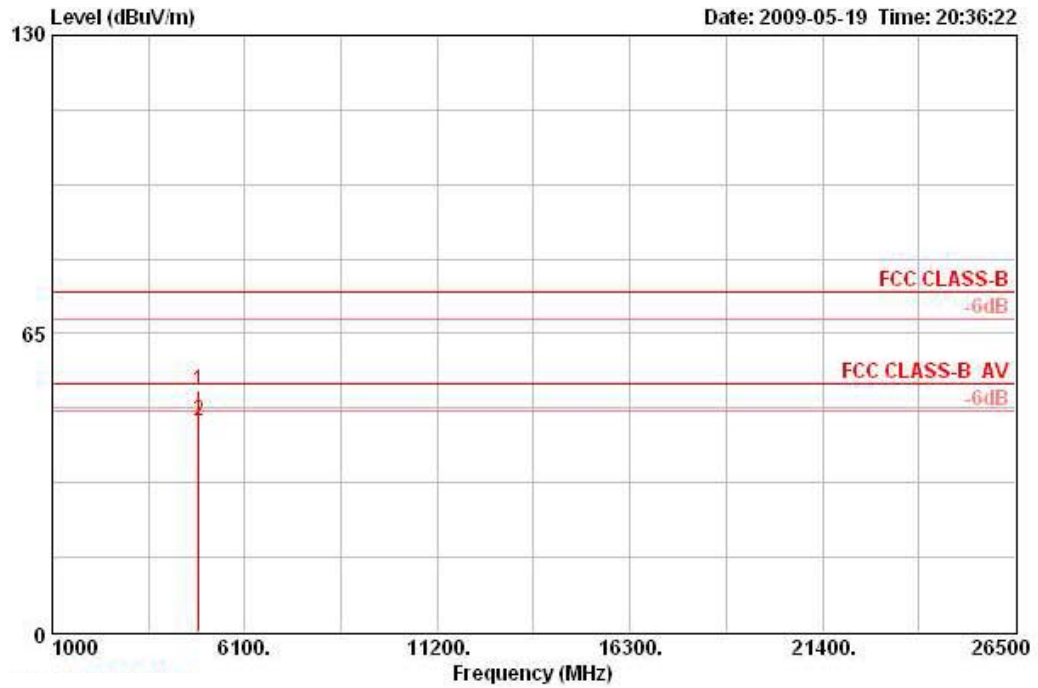
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 6 / Ant. B1 +Ant. B2

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	4873.832	49.46	-24.54	74.00	44.61	33.48	35.20	6.56	PEAK	358	181
2	4874.008	38.11	-15.89	54.00	33.26	33.48	35.20	6.56	AVERAGE	358	181

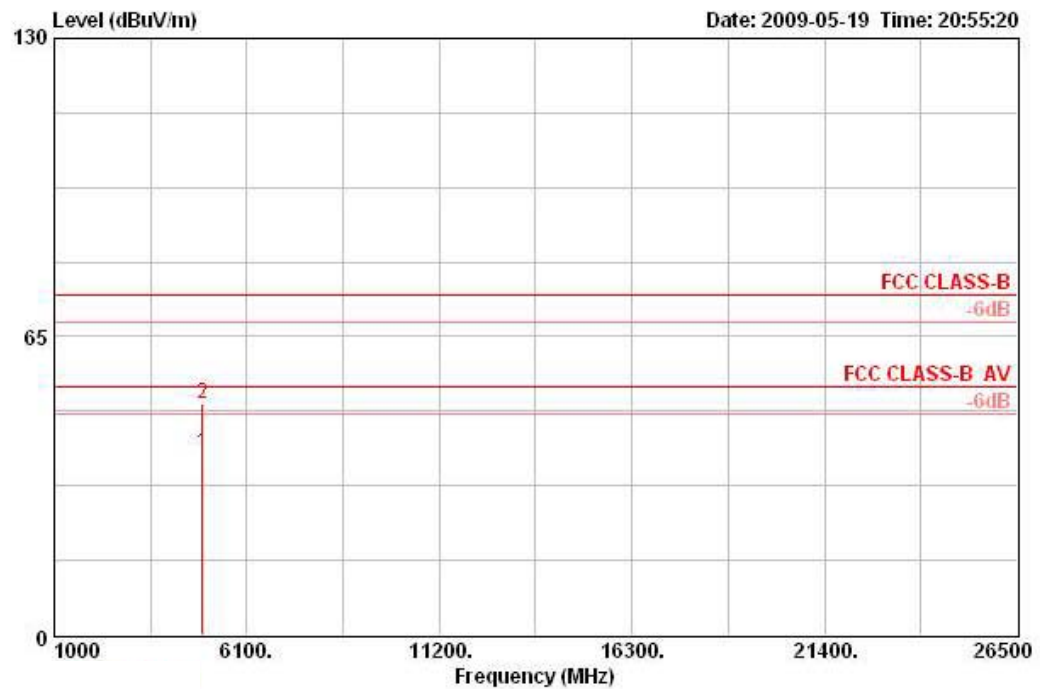
Vertical



	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	4873.996	52.49	-21.51	74.00	47.65	33.48	35.20	6.56 PEAK	VERTICAL	234	196
2	4874.112	45.77	-8.23	54.00	40.93	33.48	35.20	6.56 AVERAGE	VERTICAL	234	196

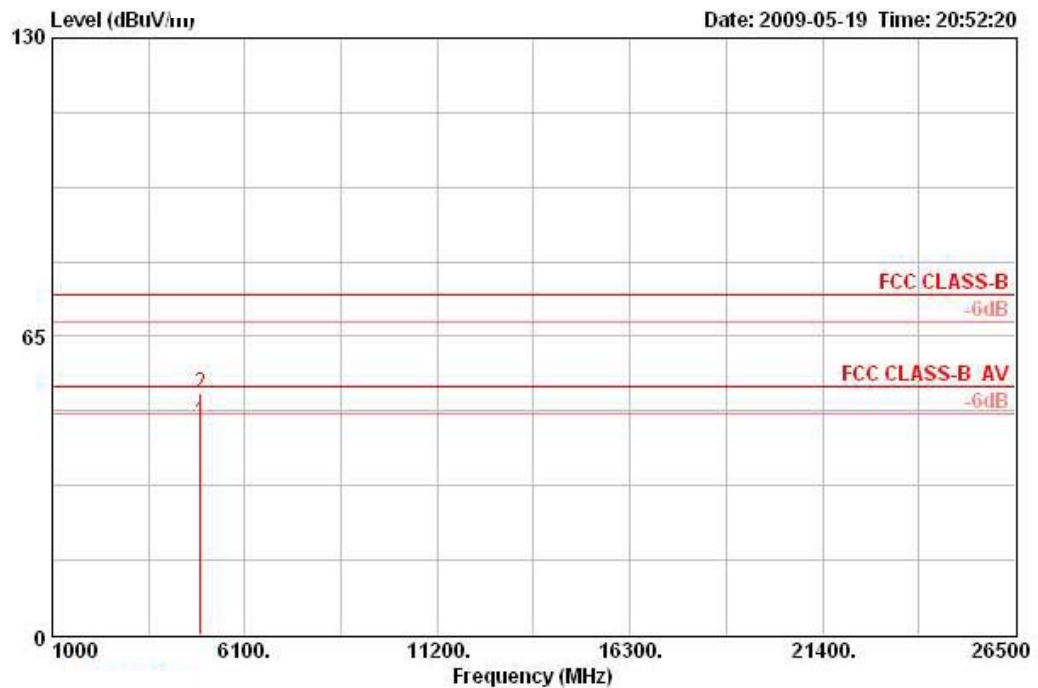
Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 11 / Ant. B1 +Ant. B2

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 ☺	4923.868	39.61	-14.39	54.00	34.51	33.58	35.20	6.73	AVERAGE	HORIZONTAL	146	100
2 ☺	4923.908	50.30	-23.70	74.00	45.19	33.58	35.20	6.73	PEAK	HORIZONTAL	146	100

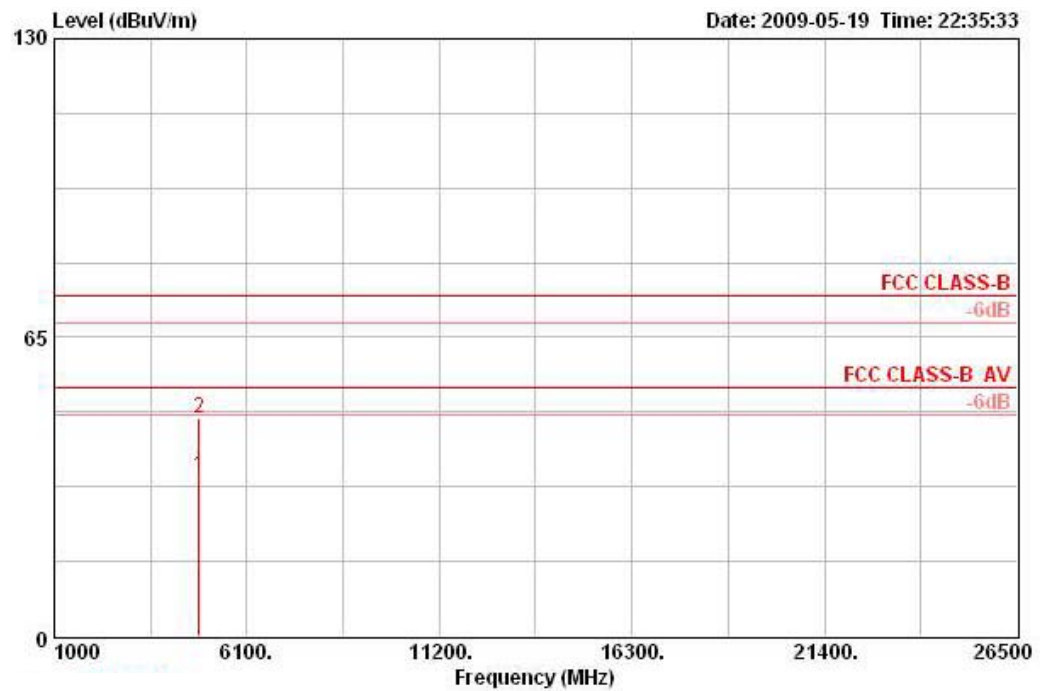
Vertical



	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 ☒	4923.960	46.38	-7.62	54.00	41.27	33.58	35.20	6.73	AVERAGE	VERTICAL	324	100
2 ☒	4924.052	52.62	-21.38	74.00	47.51	33.58	35.20	6.73	PEAK	VERTICAL	324	100

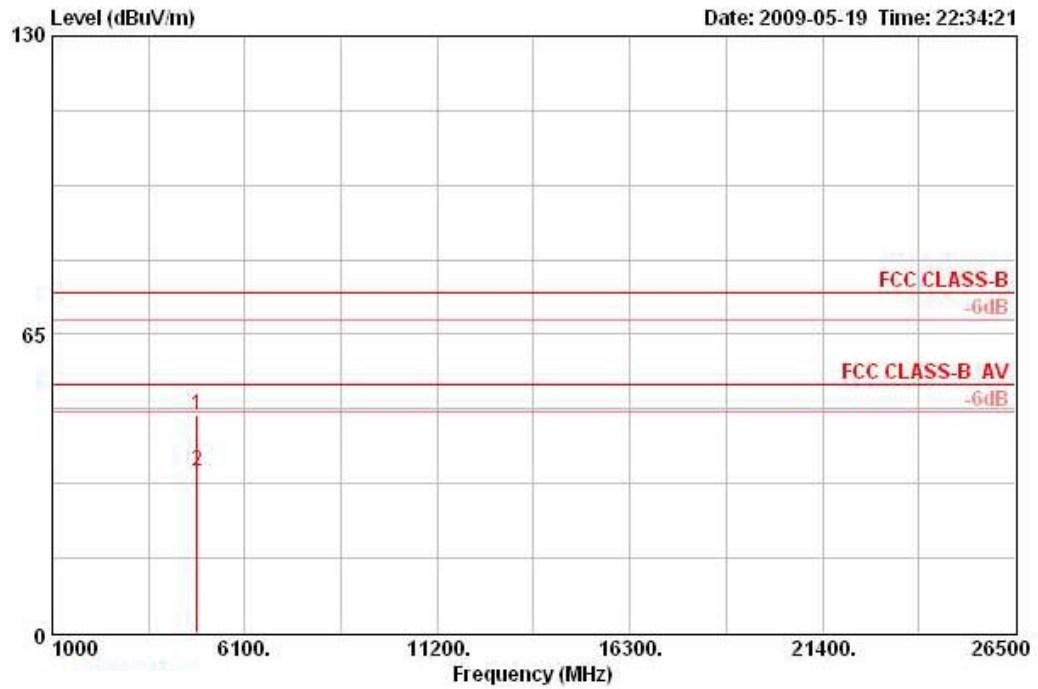
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 1 / Ant. B1 +Ant. B2

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	4823.988	34.85	-19.15	54.00	30.27	33.39	35.20	6.39	AVERAGE	HORIZONTAL	360	8415
2	4824.024	47.37	-26.63	74.00	42.79	33.39	35.20	6.39	PEAK	HORIZONTAL	360	100

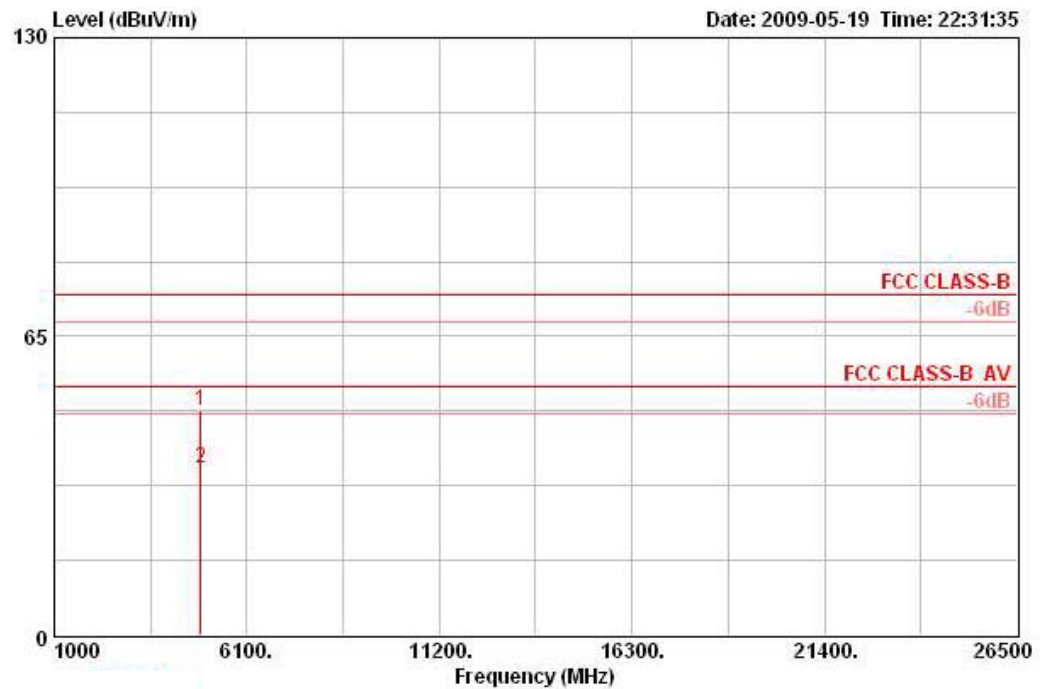
Vertical



	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	4823.988	47.48	-26.52	74.00	42.91	33.39	35.20	6.39	PEAK	0	100
2	4824.023	35.20	-18.80	54.00	30.63	33.39	35.20	6.39	AVERAGE	0	100

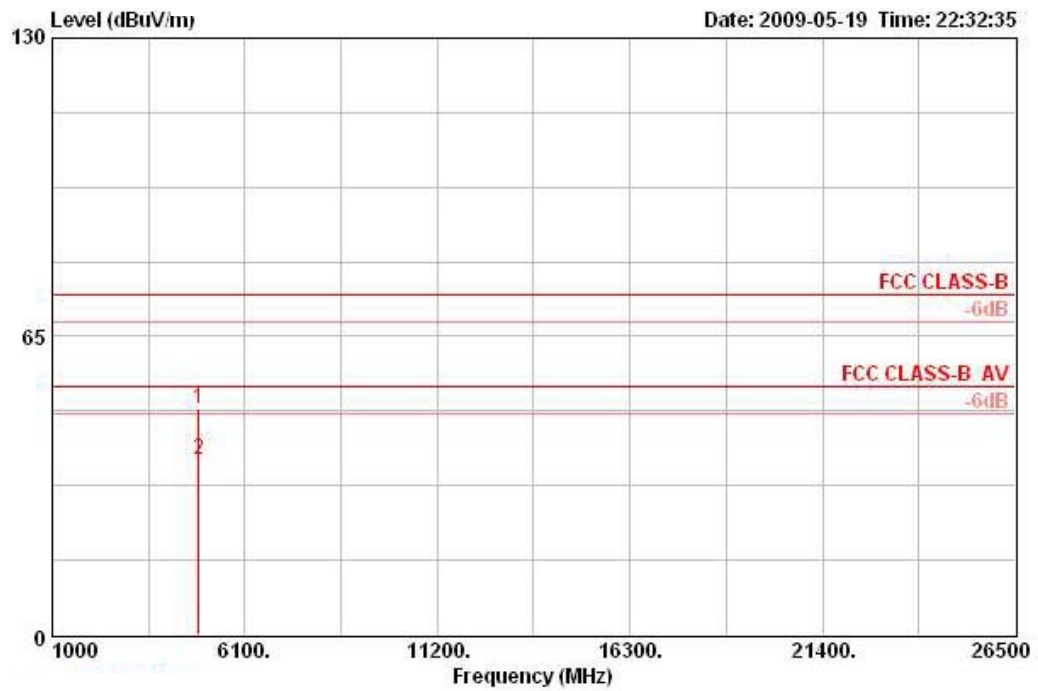
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 6 / Ant. B1 +Ant. B2

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	4874.009	48.76	-25.24	74.00	43.92	33.48	35.20	6.56	PEAK	HORIZONTAL	0	100
2	4874.020	36.37	-17.63	54.00	31.53	33.48	35.20	6.56	AVERAGE	HORIZONTAL	0	100

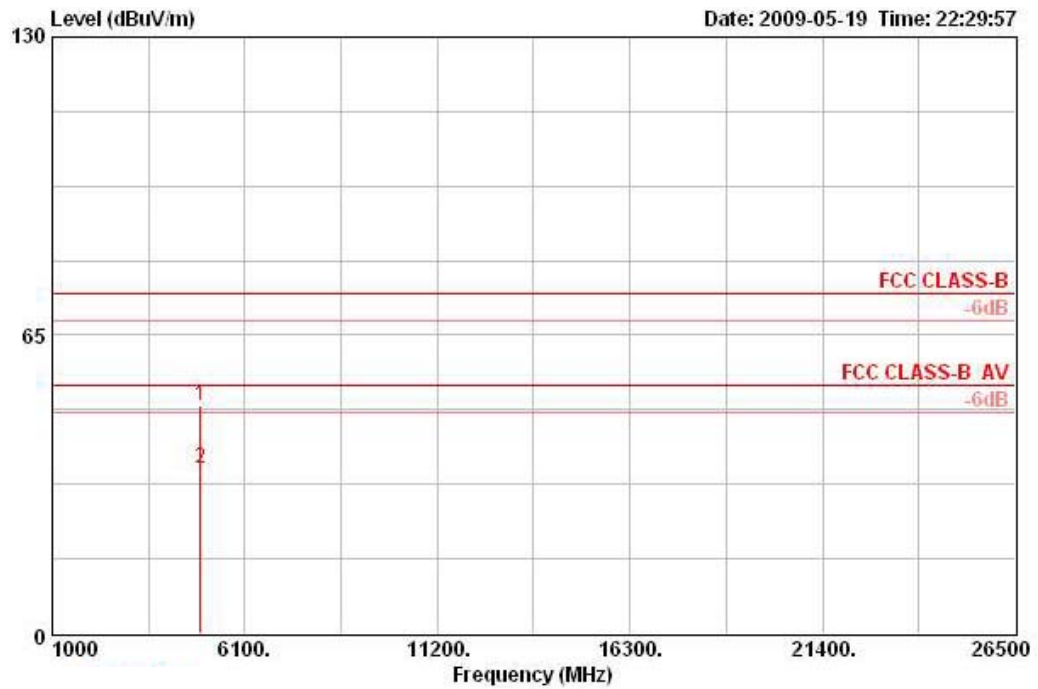
Vertical



	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	4874.012	49.33	-24.67	74.00	44.49	33.48	35.20	6.56	PEAK	VERTICAL	360	100
2	4874.014	38.13	-15.87	54.00	33.29	33.48	35.20	6.56	AVERAGE	VERTICAL	360	100

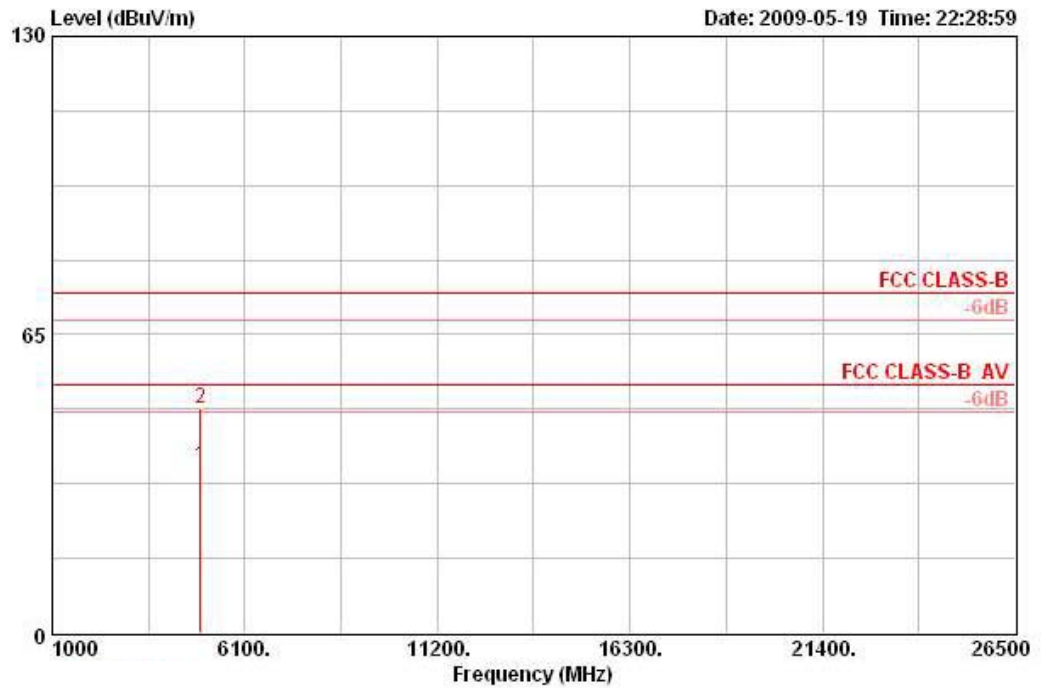
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 11 / Ant. B1 +Ant. B2

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	4923.980	49.46	-24.54	74.00	44.35	33.58	35.20	6.73	PEAK	HORIZONTAL	360	100
2	4923.995	36.02	-17.98	54.00	30.91	33.58	35.20	6.73	AVERAGE	HORIZONTAL	360	100

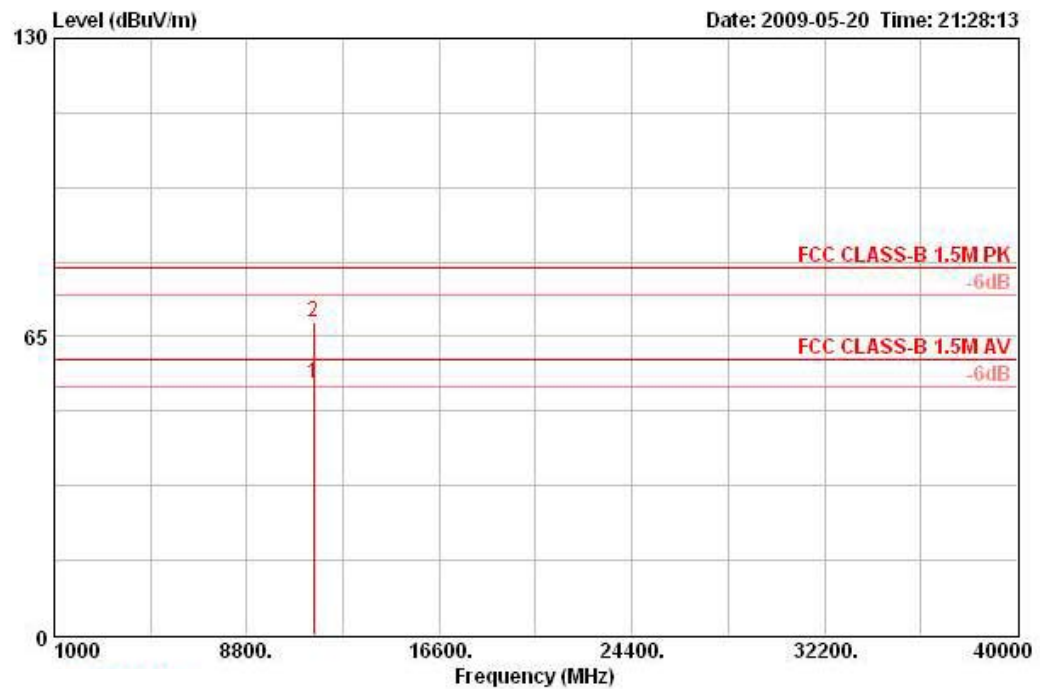
Vertical



	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 ☺	4923.979	36.37	-17.63	54.00	31.26	33.58	35.20	6.73	AVERAGE	0	100
2 ☺	4924.024	48.85	-25.15	74.00	43.75	33.58	35.20	6.73	PEAK	0	100

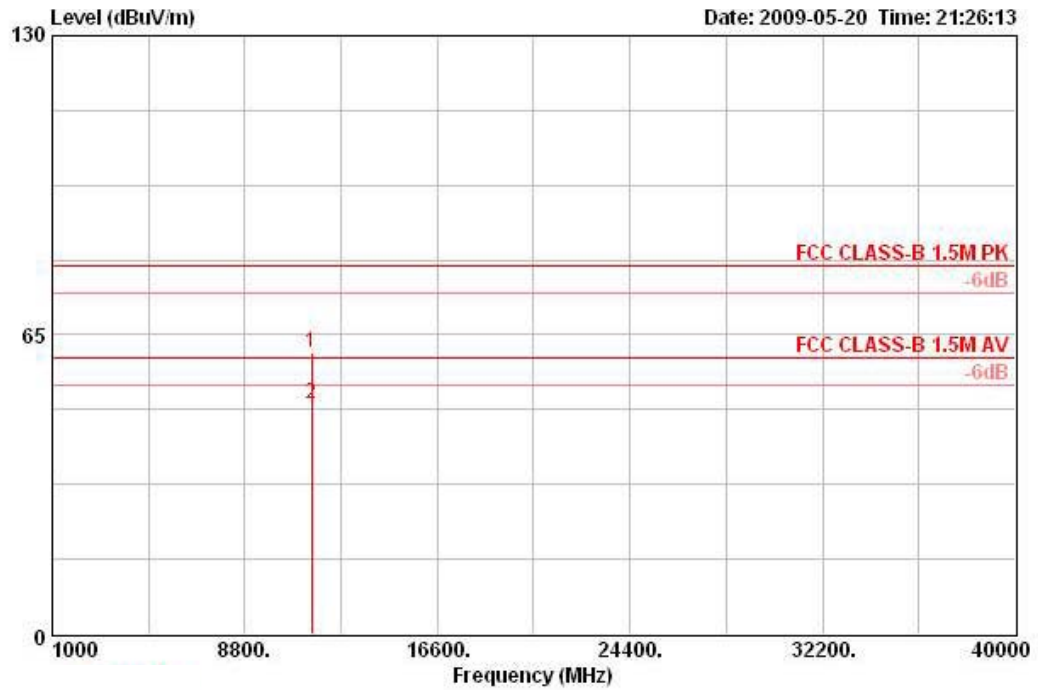
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a CH 149 / Ant. A1 +Ant. A2

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	11490.000	54.78	-5.22	60.00	39.47	39.50	35.09	10.90	AVERAGE	HORIZONTAL	233	100
2	11490.010	67.99	-12.01	80.00	52.68	39.50	35.09	10.90	PEAK	HORIZONTAL	233	100

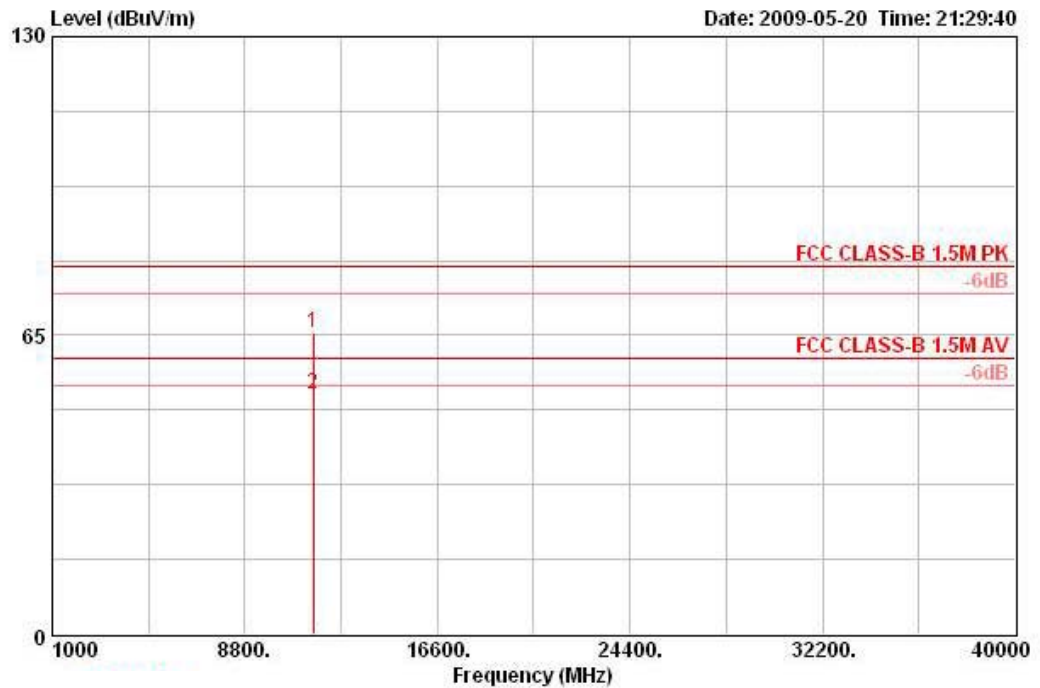
Vertical



	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	11489.990	61.24	-18.76	80.00	45.94	39.50	35.09	10.90	PEAK	VERTICAL	360	100
2	11490.010	50.17	-9.83	60.00	34.86	39.50	35.09	10.90	AVERAGE	VERTICAL	360	100

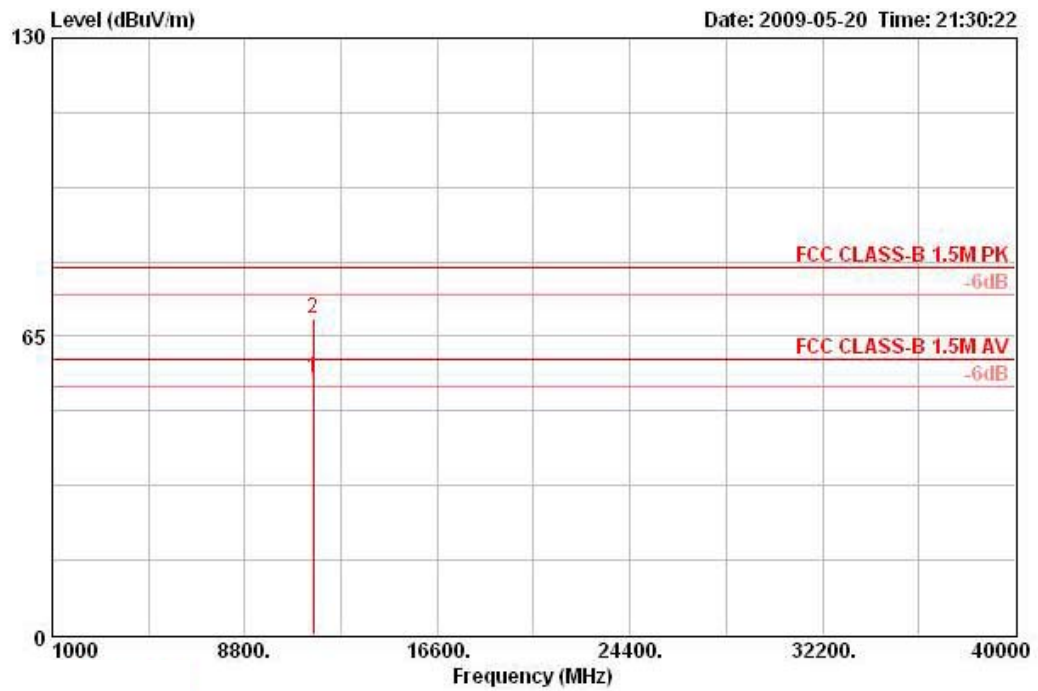
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a CH 157 / Ant. A1+Ant. A2

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	11569.990	65.51	-14.49	80.00	50.30	39.47	35.09	10.83	PEAK	HORIZONTAL	231	100
2	11570.020	52.23	-7.77	60.00	37.02	39.47	35.09	10.83	AVERAGE	HORIZONTAL	231	100

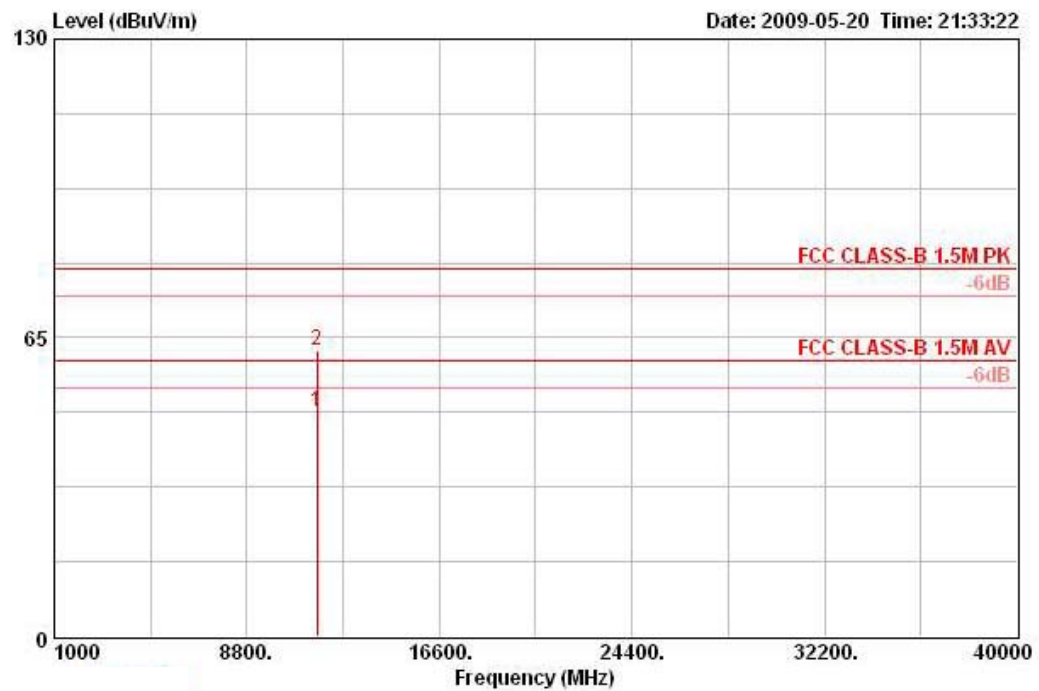
Vertical



	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	11569.980	55.88	-4.12	60.00	40.67	39.47	35.09	10.83 AVERAGE	VERTICAL	253	8960
2	11569.990	69.02	-10.98	80.00	53.80	39.47	35.09	10.83 PEAK	VERTICAL	253	100

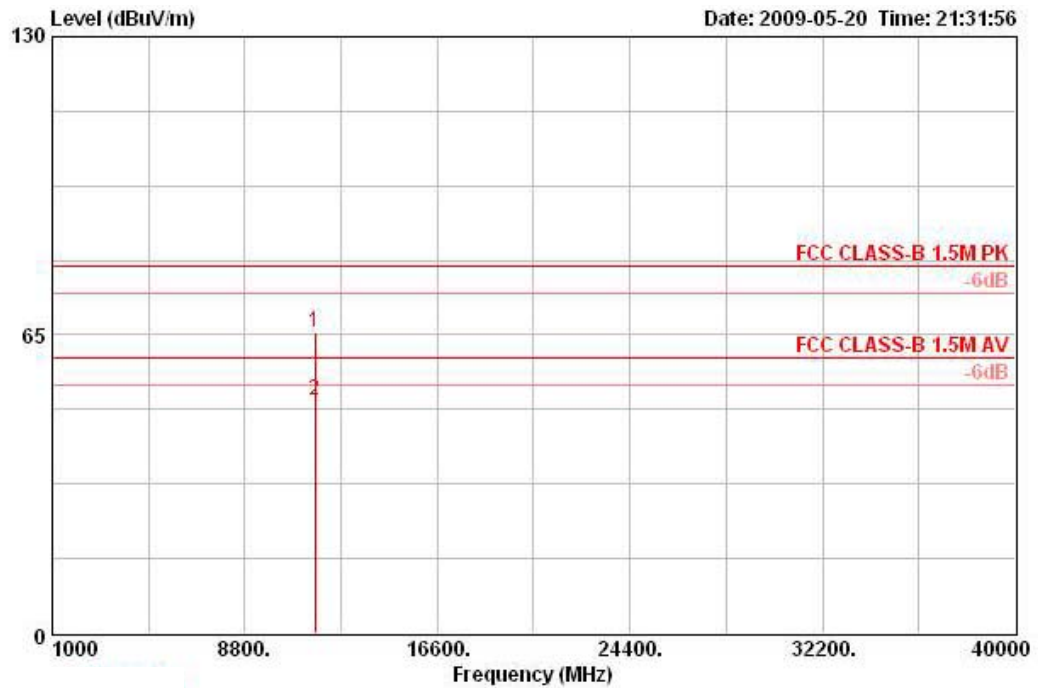
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a CH 165 / Ant. A1 +Ant. A2

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	11649.980	48.94	-11.06	60.00	33.84	39.44	35.07	10.72	AVERAGE	HORIZONTAL	232	100
2	11650.000	62.20	-17.80	80.00	47.10	39.44	35.07	10.72	PEAK	HORIZONTAL	232	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	11649.980	65.47	-14.53	80.00	50.37	39.44	35.07	10.72	PEAK	VERTICAL	256	100
2	11649.990	50.65	-9.35	60.00	35.56	39.44	35.07	10.72	AVERAGE	VERTICAL	256	100

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 / 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

Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 1, 6, 11 / Ant. B1 + Ant. B2
Test date	May 19, 2009		

Channel 1

	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 ☺	2390.000	53.85	-0.15	54.00	22.92	28.05	0.00	2.88 AVERAGE	HORIZONTAL	311	186
2 ☺	2390.000	70.31	-3.69	74.00	39.38	28.05	0.00	2.88 PEAK	HORIZONTAL	311	186
3 ☺	2408.800	110.55			79.58	28.09	0.00	2.88 PEAK	HORIZONTAL	311	186
4 ☺	2410.600	100.47			69.50	28.09	0.00	2.88 AVERAGE	HORIZONTAL	311	186

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	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 ☺	2389.400	70.94	-3.06	74.00	40.02	28.05	0.00	2.86 PEAK	HORIZONTAL	330	100
2 ☺	2390.000	51.84	-2.16	54.00	20.91	28.05	0.00	2.88 AVERAGE	HORIZONTAL	330	100
3 ☺	2429.800	105.38			74.35	28.13	0.00	2.90 AVERAGE	HORIZONTAL	330	100
4 ☺	2431.600	115.07			84.04	28.13	0.00	2.90 PEAK	HORIZONTAL	330	100
5 ☺	2483.500	46.32	-7.68	54.00	15.13	28.26	0.00	2.93 AVERAGE	HORIZONTAL	330	100
6 ☺	2483.700	59.45	-14.55	74.00	28.27	28.26	0.00	2.93 PEAK	HORIZONTAL	330	100

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

Channel 11

	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 ☺	2454.200	108.57			77.44	28.22	0.00	2.91 PEAK	VERTICAL	9	100
2 ☺	2455.200	98.88			67.75	28.22	0.00	2.91 AVERAGE	VERTICAL	9	100
3 ☺	2483.500	50.70	-3.30	54.00	19.51	28.26	0.00	2.93 AVERAGE	VERTICAL	9	100
4 ☺	2483.500	65.81	-8.19	74.00	34.62	28.26	0.00	2.93 PEAK	VERTICAL	9	100

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

Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 3, 6, 9 / Ant. B1 + Ant. B2
Test date	May 19, 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 ☺	2390.000	53.61	-0.39	54.00	22.68	28.05	0.00	2.88	AVERAGE	HORIZONTAL	311	100
2 ☺	2390.000	66.75	-7.25	74.00	35.82	28.05	0.00	2.88	PEAK	HORIZONTAL	311	100
3 ☺	2419.600	93.76			62.73	28.13	0.00	2.90	AVERAGE	HORIZONTAL	311	100
4 ☺	2429.200	104.84			73.81	28.13	0.00	2.90	PEAK	HORIZONTAL	311	100

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 ☺	2387.200	69.94	-4.06	74.00	39.02	28.05	0.00	2.86	PEAK	VERTICAL	346	100
2 ☺	2390.000	52.81	-1.19	54.00	21.88	28.05	0.00	2.88	AVERAGE	VERTICAL	346	100
3 ☺	2439.000	108.44			77.37	28.18	0.00	2.90	PEAK	VERTICAL	346	100
4 ☺	2439.400	97.55			66.48	28.18	0.00	2.90	AVERAGE	VERTICAL	346	100
5 ☺	2483.500	47.42	-6.58	54.00	16.24	28.26	0.00	2.93	AVERAGE	VERTICAL	346	100
6 ☺	2483.900	61.86	-12.14	74.00	30.67	28.26	0.00	2.93	PEAK	VERTICAL	346	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 ☺	2436.800	92.60			61.53	28.18	0.00	2.90	AVERAGE	HORIZONTAL	269	115
2 ☺	2437.600	103.08			72.01	28.18	0.00	2.90	PEAK	HORIZONTAL	269	115
3 ☺	2483.500	50.59	-3.41	54.00	19.40	28.26	0.00	2.93	AVERAGE	HORIZONTAL	269	115
4 ☺	2483.900	65.03	-8.97	74.00	33.85	28.26	0.00	2.93	PEAK	HORIZONTAL	269	115

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

Note:

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

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

Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11b CH 1, 6, 11/ Ant. B1 + Ant. B2
Test Date	May 19, 2009		

Channel 1

	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 ☺	2385.600	52.41	-1.59	54.00	21.49	28.05	0.00	2.86 AVERAGE	HORIZONTAL	299	119
2 ☺	2386.200	60.97	-13.03	74.00	30.06	28.05	0.00	2.86 PEAK	HORIZONTAL	299	119
3 ☺	2413.400	110.41			79.44	28.09	0.00	2.88 PEAK	HORIZONTAL	299	119
4 ☺	2414.800	106.57			75.59	28.09	0.00	2.88 AVERAGE	HORIZONTAL	299	119

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

Channel 6

	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 ☺	2388.600	44.56	-9.44	54.00	13.65	28.05	0.00	2.86 AVERAGE	VERTICAL	358	100
2 ☺	2388.800	55.23	-18.77	74.00	24.32	28.05	0.00	2.86 PEAK	VERTICAL	358	100
3 ☺	2434.400	109.99			78.96	28.13	0.00	2.90 AVERAGE	VERTICAL	358	100
4 ☺	2435.600	113.67			82.64	28.13	0.00	2.90 PEAK	VERTICAL	358	100
5 ☺	2483.500	44.53	-9.47	54.00	13.34	28.26	0.00	2.93 AVERAGE	VERTICAL	358	100
6 ☺	2485.700	55.38	-18.62	74.00	24.20	28.26	0.00	2.93 PEAK	VERTICAL	358	100

Item 3 are the fundamental frequency at 2437 MHz.

Channel 11

	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 ☺	2459.200	102.37			71.25	28.22	0.00	2.91 AVERAGE	VERTICAL	30	100
2 ☺	2463.000	105.90			74.77	28.22	0.00	2.91 PEAK	VERTICAL	30	100
3 ☺	2487.700	50.78	-3.22	54.00	19.55	28.30	0.00	2.93 AVERAGE	VERTICAL	30	100
4 ☺	2488.100	59.92	-14.08	74.00	28.70	28.30	0.00	2.93 PEAK	VERTICAL	30	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.

Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11g CH 1, 6, 11/ Ant. B1 + Ant. B2
Test Date	May 19, 2009		

Channel 1

	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 ☒	2389.800	68.41	-5.59	74.00	37.48	28.05	0.00	2.88	PEAK	VERTICAL	9	100
2 ☒	2390.000	51.77	-2.23	54.00	20.84	28.05	0.00	2.88	AVERAGE	VERTICAL	9	100
3 ☒	2414.400	99.96			68.98	28.09	0.00	2.88	AVERAGE	VERTICAL	9	100
4 ☒	2414.800	109.45			78.48	28.09	0.00	2.88	PEAK	VERTICAL	9	100

Item 3, 4 are the fundamental frequency at 2412 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 ☒	2387.000	51.82	-2.18	54.00	20.90	28.05	0.00	2.86	AVERAGE	VERTICAL	346	100
2 ☒	2388.800	68.85	-5.15	74.00	37.94	28.05	0.00	2.86	PEAK	VERTICAL	346	100
3 ☒	2435.400	106.74			75.71	28.13	0.00	2.90	AVERAGE	VERTICAL	346	100
4 ☒	2438.400	116.43			85.35	28.18	0.00	2.90	PEAK	VERTICAL	346	100
5 ☒	2483.500	46.51	-7.49	54.00	15.32	28.26	0.00	2.93	AVERAGE	VERTICAL	346	100
6 ☒	2485.300	57.86	-16.14	74.00	26.68	28.26	0.00	2.93	PEAK	VERTICAL	346	100

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

Channel 11

	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 ☒	2456.600	99.36			68.23	28.22	0.00	2.91	AVERAGE	VERTICAL	360	132
2 ☒	2457.000	109.21			78.09	28.22	0.00	2.91	PEAK	VERTICAL	360	132
3 ☒	2483.500	49.06	-4.94	54.00	17.87	28.26	0.00	2.93	AVERAGE	VERTICAL	360	132
4 ☒	2483.500	64.10	-9.90	74.00	32.92	28.26	0.00	2.93	PEAK	VERTICAL	360	132

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

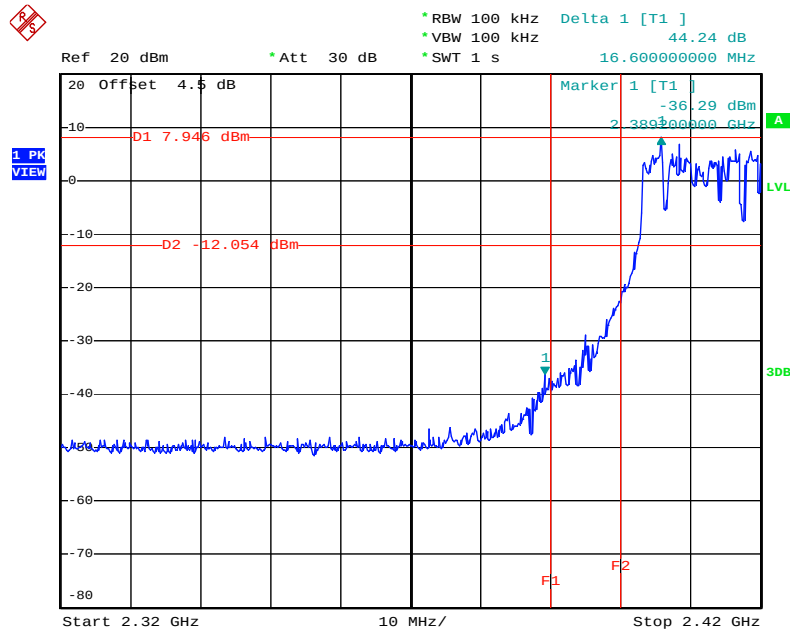
Note:

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

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

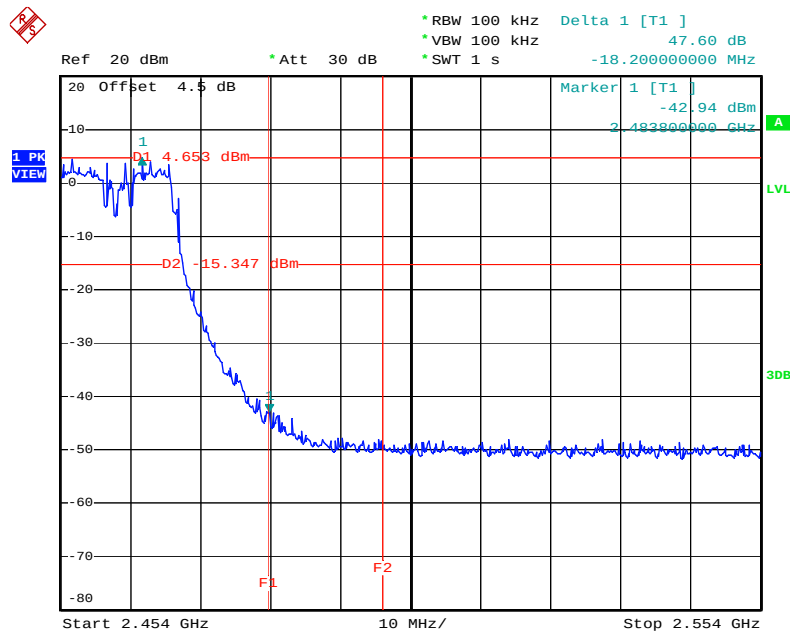
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS0 20MHz Ant. B1 + Ant. B2 / 2412 MHz



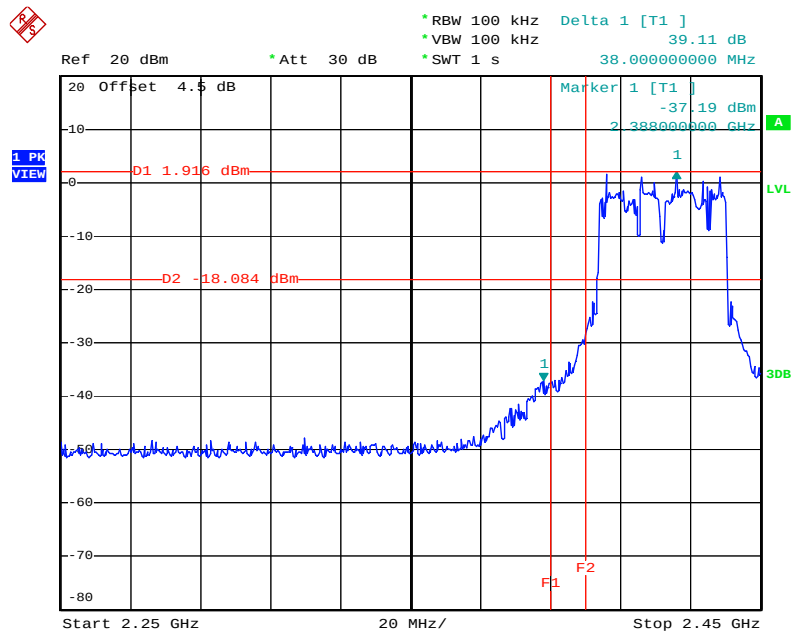
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High Band Edge Plot on Configuration Drafft n MCS0 20MHz Ant. B1 + Ant. B2 / 2462 MHz



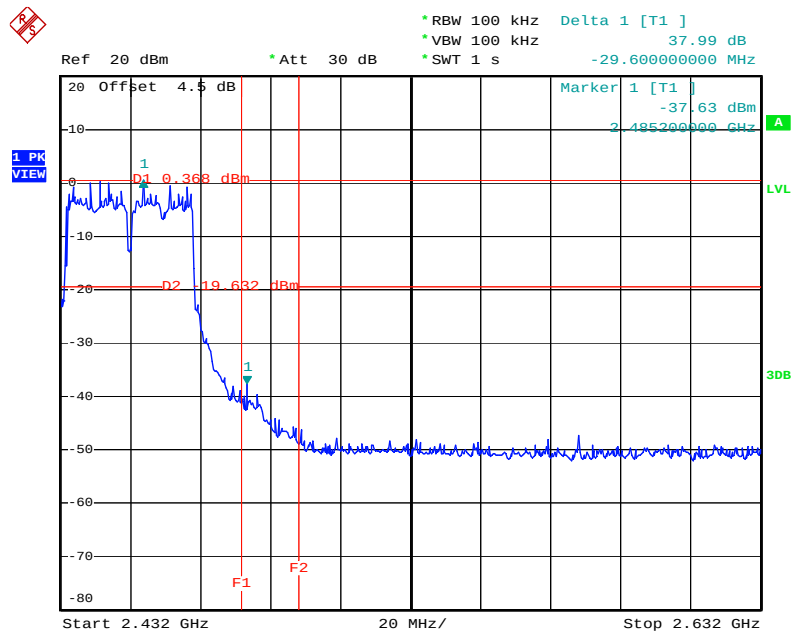
Date: 26.MAR.2009 12:35:18

Low Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. B1 + Ant. B2 / 2422 MHz



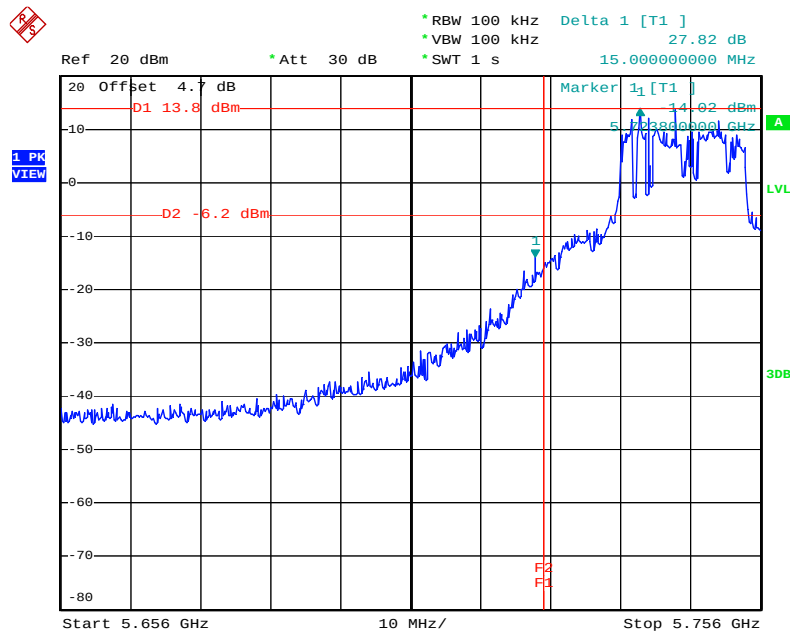
Date: 26.MAR.2009 12:41:21

High Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. B1 + Ant. B2 / 2452 MHz



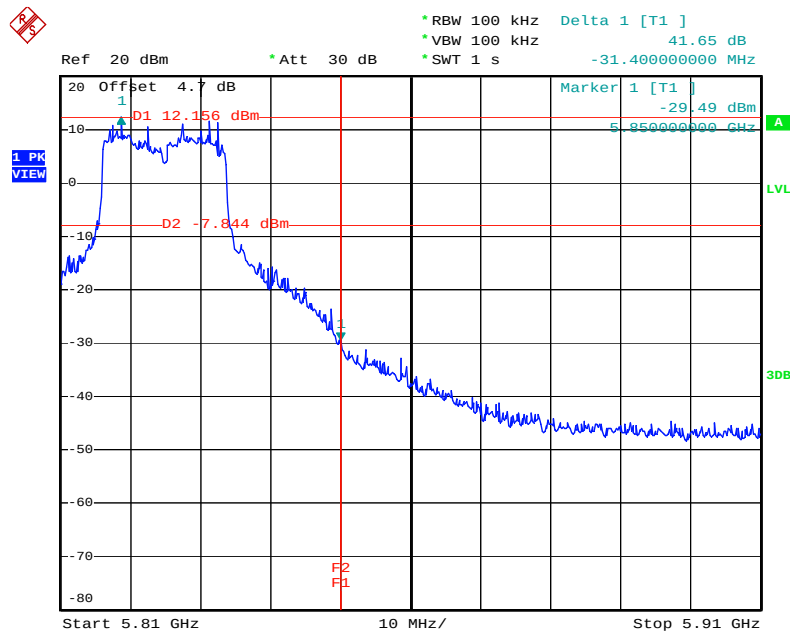
Date: 26.MAR.2009 13:00:25

Low Band Edge Plot on Configuration 11a Draft n MCS0 20MHz Ant. A1 + Ant. A2 / 5745 MHz



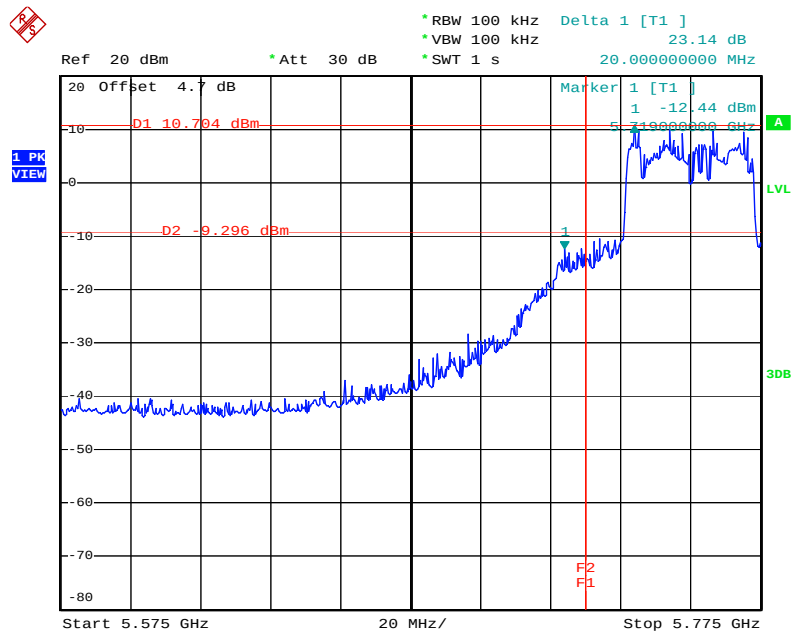
Date: 26.MAR.2009 12:26:28

High Band Edge Plot on Configuration 11a Draft n MCS0 20MHz Ant. A1 + Ant. A2 / 5825 MHz



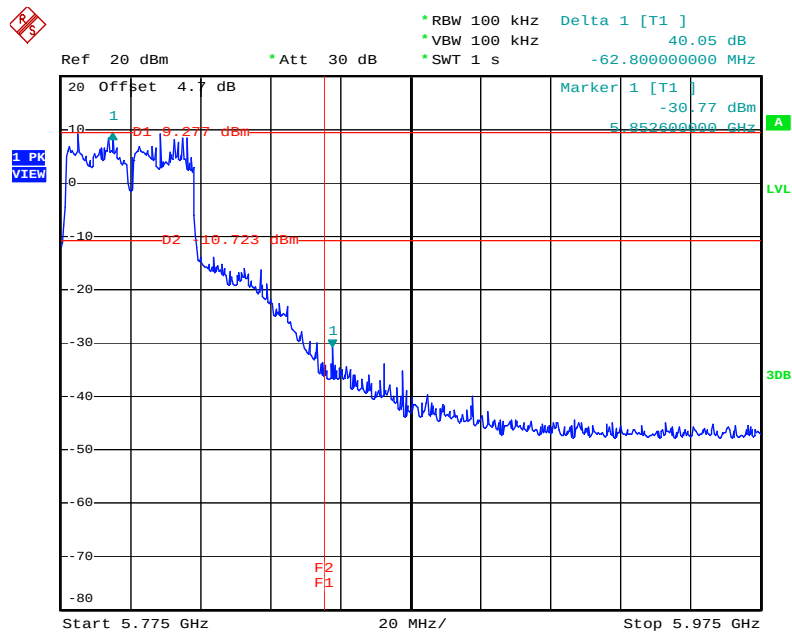
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Low Band Edge Plot on Configuration 11a Draft n MCS0 40MHz Ant. A1 + Ant. A2 / 5755 MHz



Date: 26.MAR.2009 13:38:58

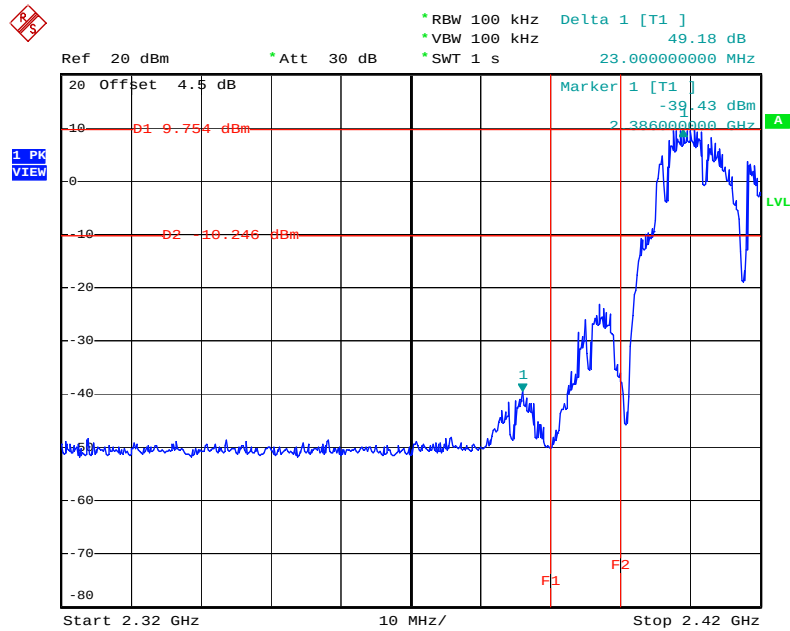
High Band Edge Plot on Configuration 11a Draft n MCS0 40MHz Ant. A1 + Ant. A2 / 5795 MHz



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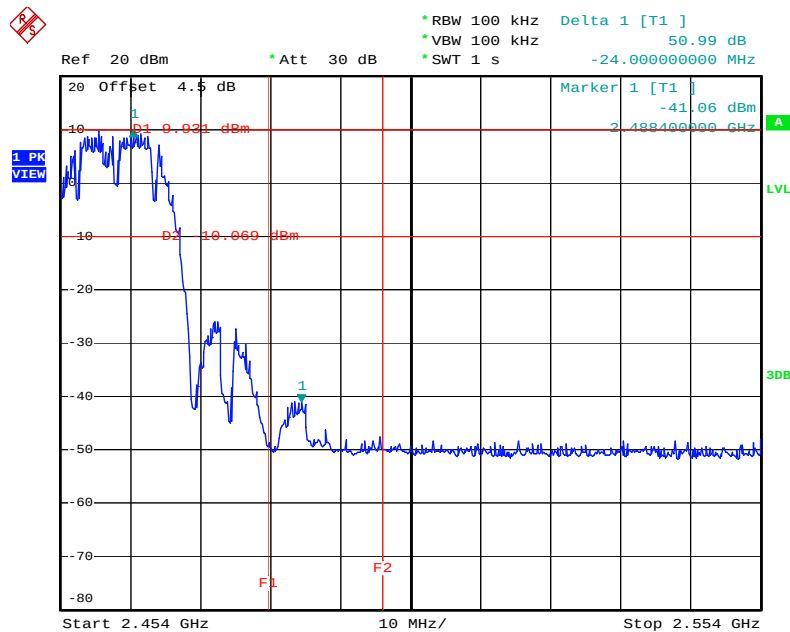
For Emission not in Restricted Band

Low Band Edge Plot on Configuration IEEE 802.11b Ant. B1 + Ant. B2 / 2412 MHz



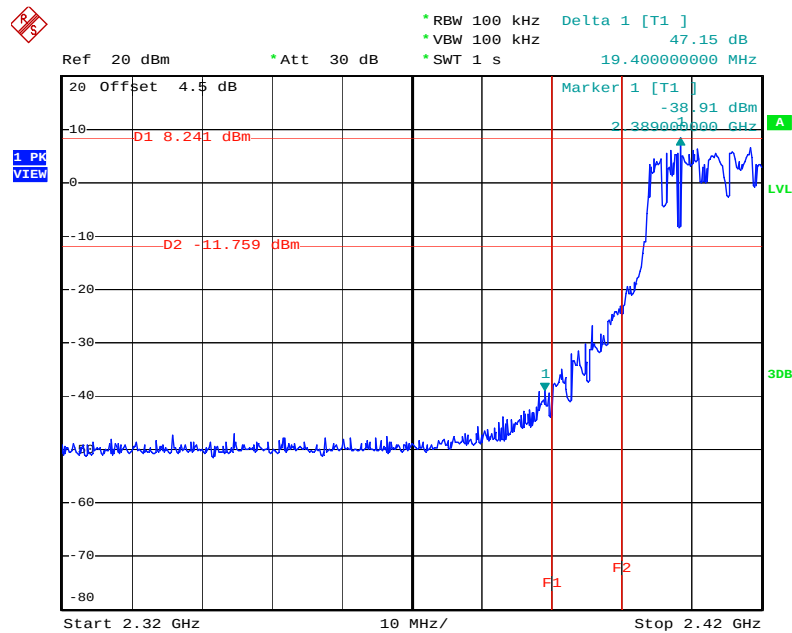
Date: 21.MAY.2009 11:29:32

High Band Edge Plot on Configuration IEEE 802.11b Ant. B1 + Ant. B2 / 2462 MHz



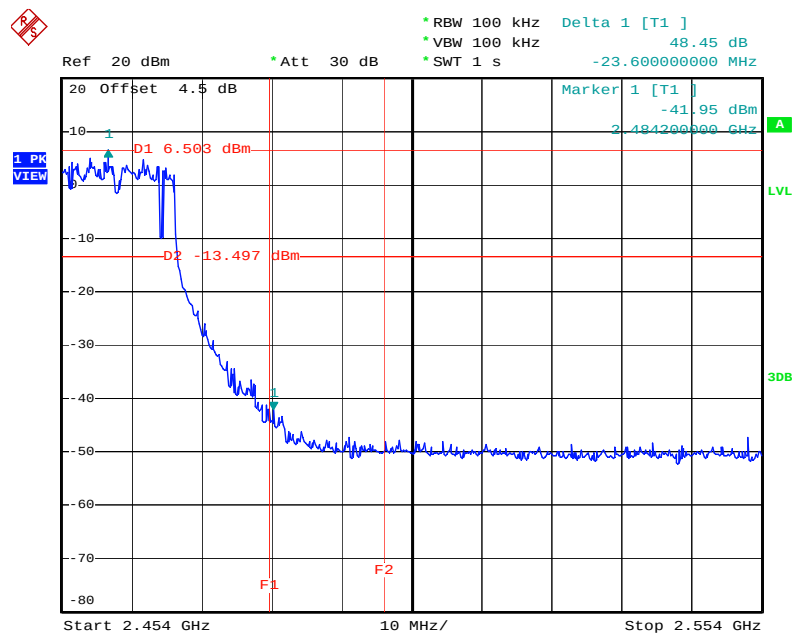
Date: 26.MAR.2009 12:05:28

Low Band Edge Plot on Configuration IEEE 802.11g Ant. B1 + Ant. B2 / 2412 MHz



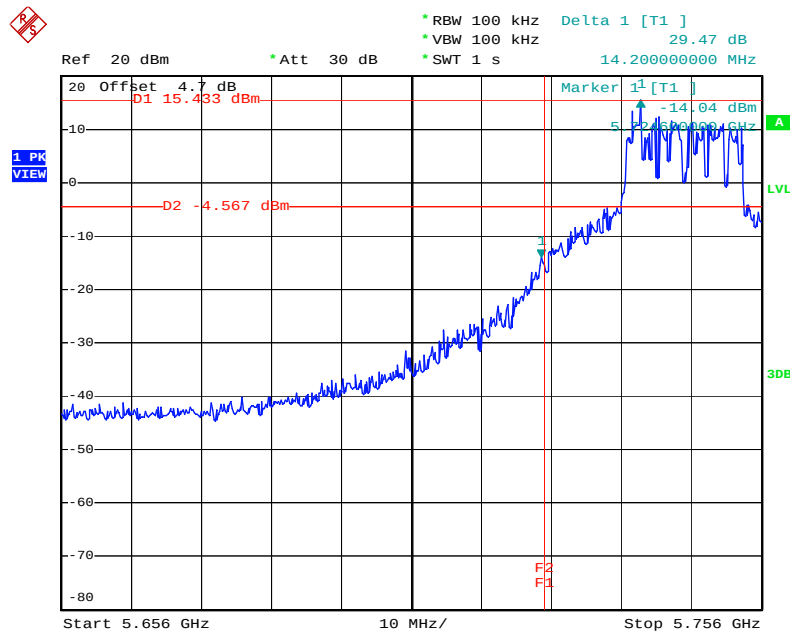
Date: 26.MAR.2009 12:07:02

High Band Edge Plot on Configuration IEEE 802.11g Ant. B1 + Ant. B2 / 2462 MHz



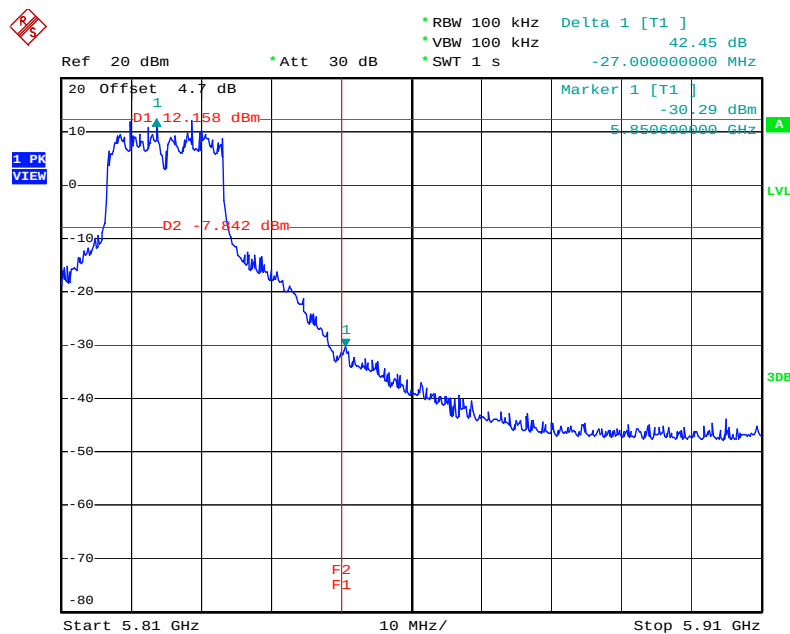
Date: 26.MAR.2009 12:08:59

Low Band Edge Plot on Configuration IEEE 802.11a Ant. A1 + Ant. A2 / 5745 MHz



Date: 26.MAR.2009 14:03:13

High Band Edge Plot on Configuration IEEE 802.11a Ant. A1 + Ant. A2 / 5825 MHz



Date: 26.MAR.2009 13:48:13

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. 13, 2008	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. 14, 2008	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, 2008	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	100023	9 kHz - 30 GHz	Feb 02, 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. 12, 2008	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 29, 2008	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	FSP30	100023	9kHz ~ 30GHz	Jan. 09, 2009	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 11, 2008	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 30, 2008*	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	Jul. 18, 2008	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)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Dec. 14, 2008	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 10, 2009	Conducted (TH01-HY)
Oscilloscope	Tektonix	TDS380	B016197	400MHz/ 2GS/s	Jun. 27, 2008	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., Neihsu 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.