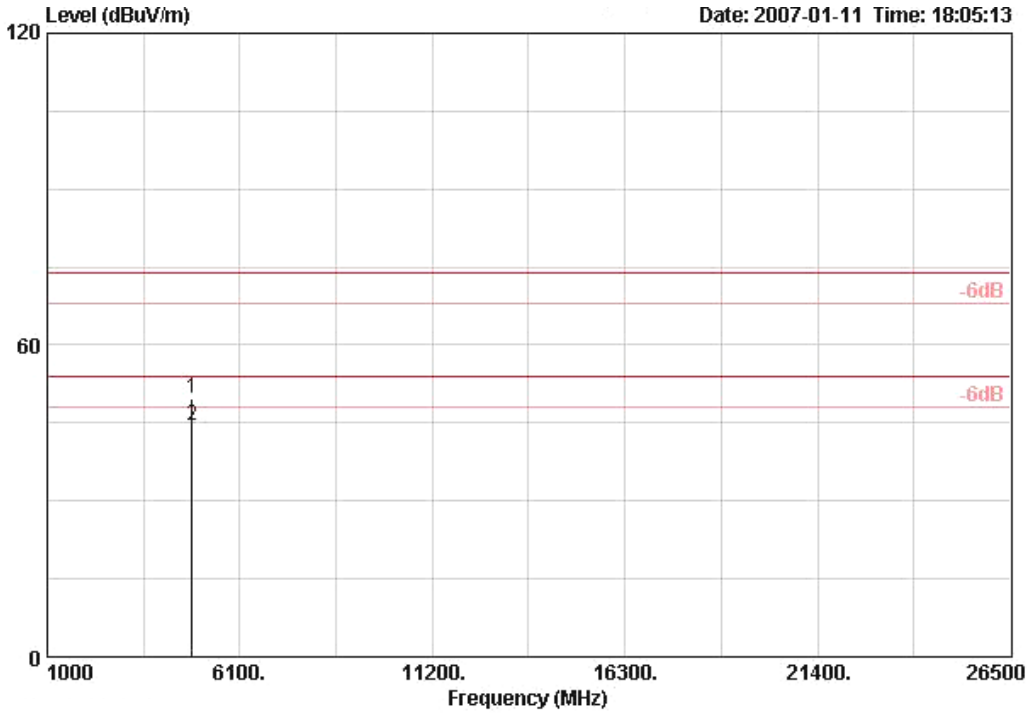
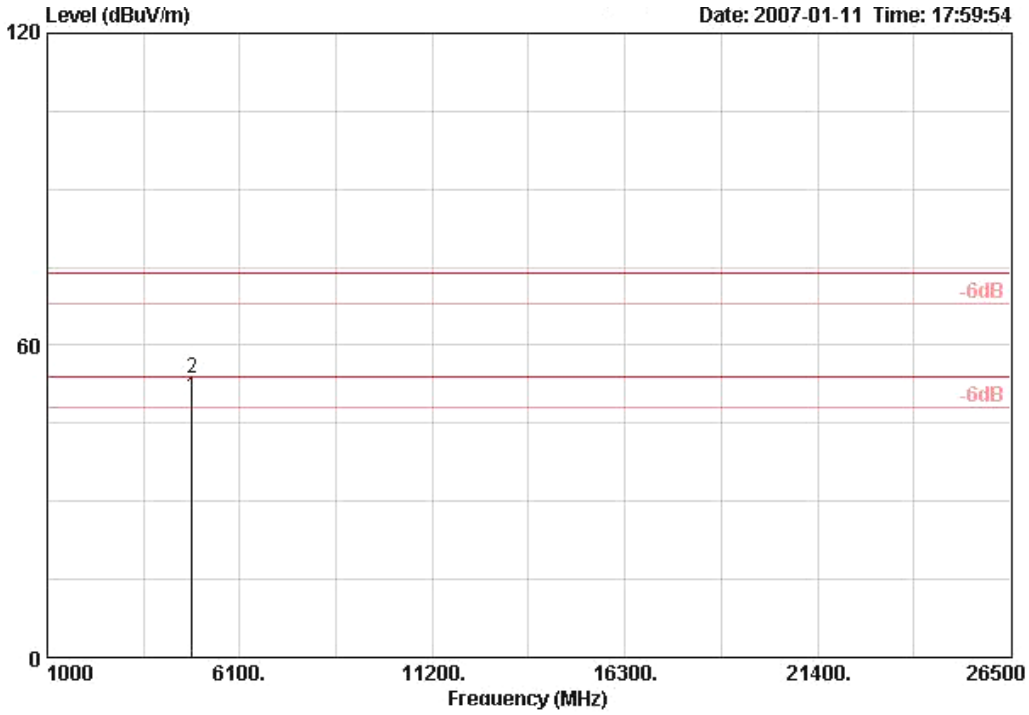
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 40MHz Channel 3(Upper) Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	4843.950	49.56	-24.44	74.00	47.33	4.30	35.16	33.09	PEAK	165	78
2	4844.010	44.33	-9.67	54.00	42.10	4.30	35.16	33.09	AVERAGE	165	78

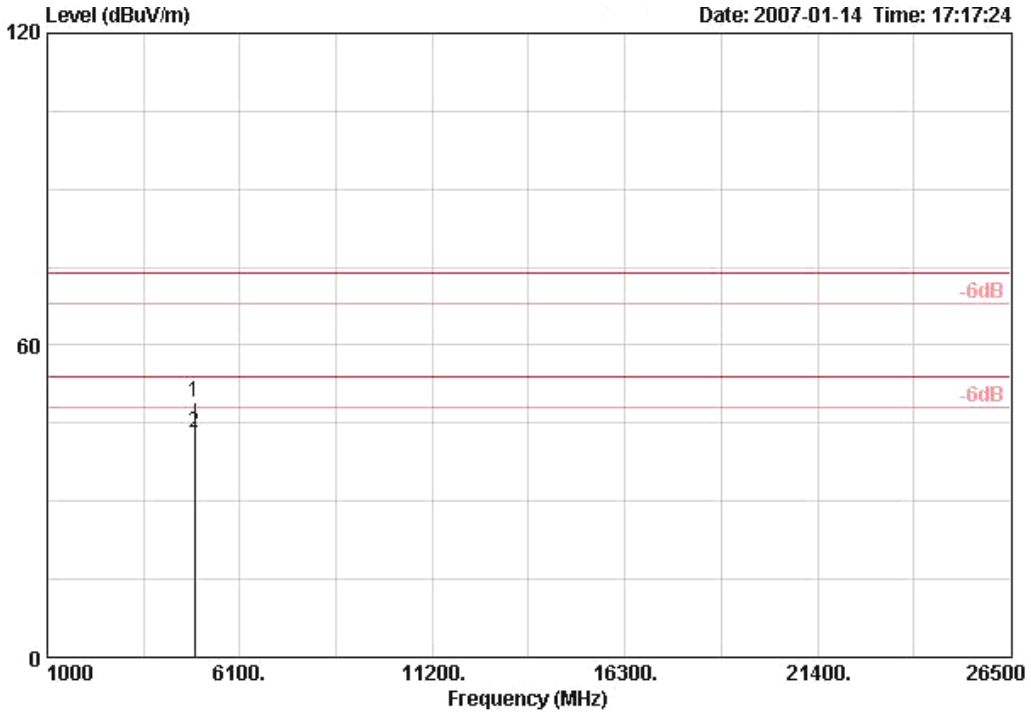
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 !	4843.992	50.12	-3.88	54.00	47.89	4.30	35.16	33.09	AVERAGE	130	82
2	4844.028	53.71	-20.29	74.00	51.48	4.30	35.16	33.09	PEAK	130	82

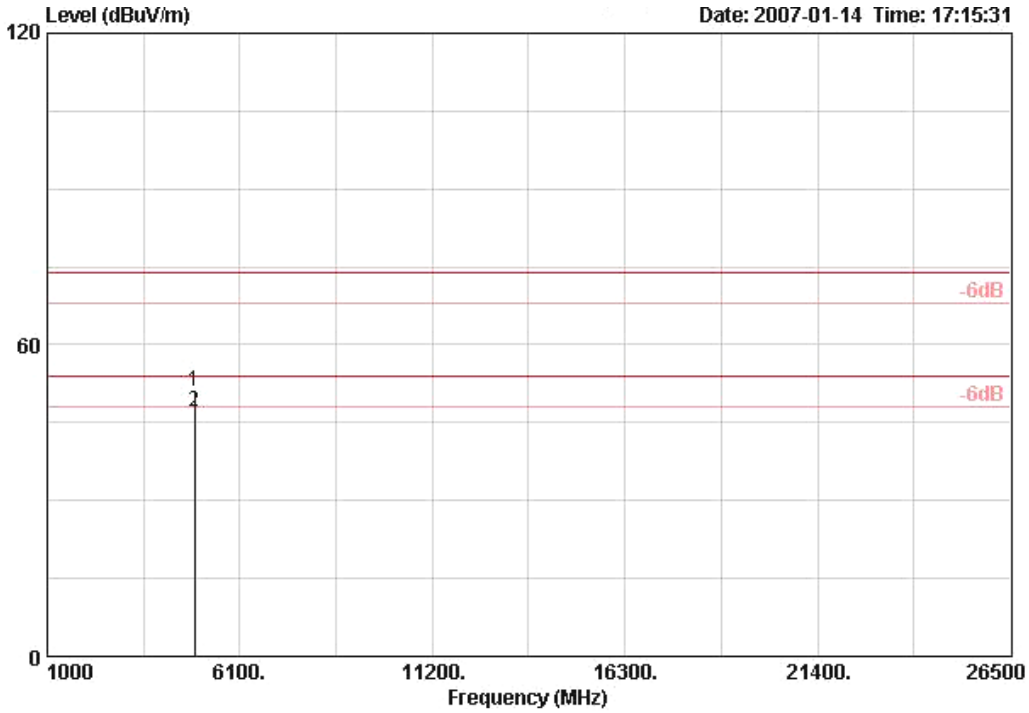
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 40MHz Channel 6(Upper) Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	4893.990	49.17	-24.83	74.00	46.83	4.30	35.15	33.19	PEAK	176	289
2	4894.050	43.14	-10.86	54.00	40.80	4.30	35.15	33.19	AVERAGE	176	289

Vertical



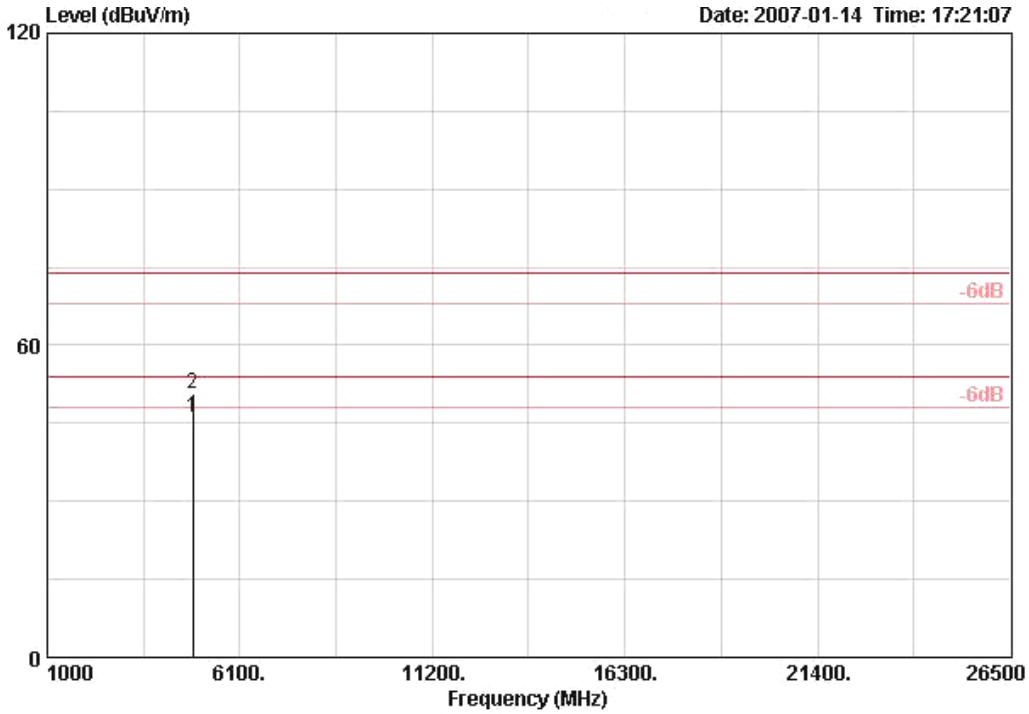
	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	4893.940	51.08	-22.92	74.00	48.73	4.30	35.15	33.19	PEAK	127	58
2	4894.070	47.07	-6.93	54.00	44.73	4.30	35.15	33.19	AVERAGE	127	58

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 40MHz Channel 6(Lower) Ant. A + Ant. B / Mode 2

Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	4853.868	49.16	-24.84	74.00	46.90	4.30	35.16	33.12	PEAK	140	290
2	4854.052	42.02	-11.98	54.00	39.76	4.30	35.16	33.12	AVERAGE	140	290

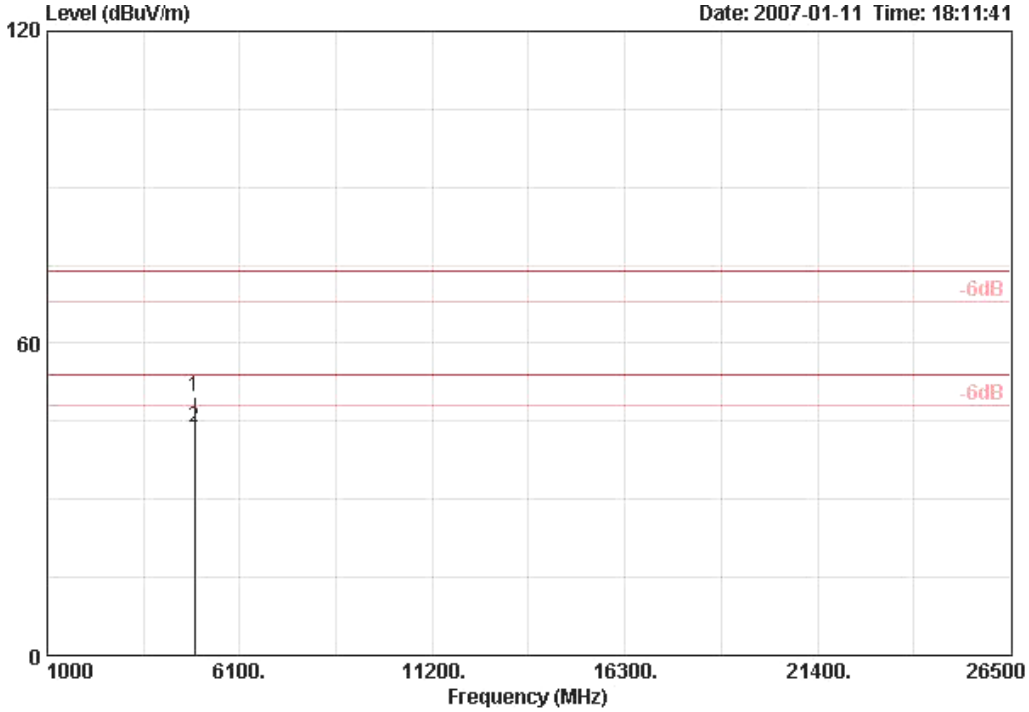
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	4854.052	46.07	-7.93	54.00	43.81	4.30	35.16	33.12	AVERAGE	129	58
2	4854.164	50.75	-23.25	74.00	48.48	4.30	35.16	33.12	PEAK	129	58

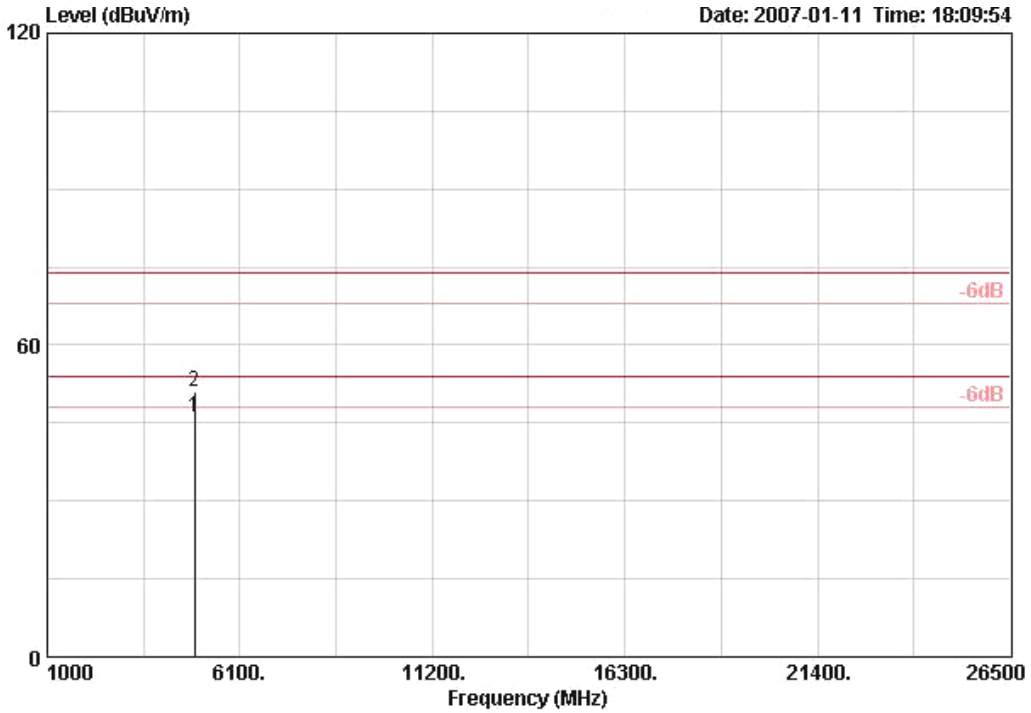
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 40MHz Channel 9(Lower) Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	4903.980	49.76	-24.24	74.00	47.38	4.30	35.15	33.23	PEAK	165	77
2	4903.990	43.71	-10.29	54.00	41.33	4.30	35.15	33.23	AVERAGE	165	77

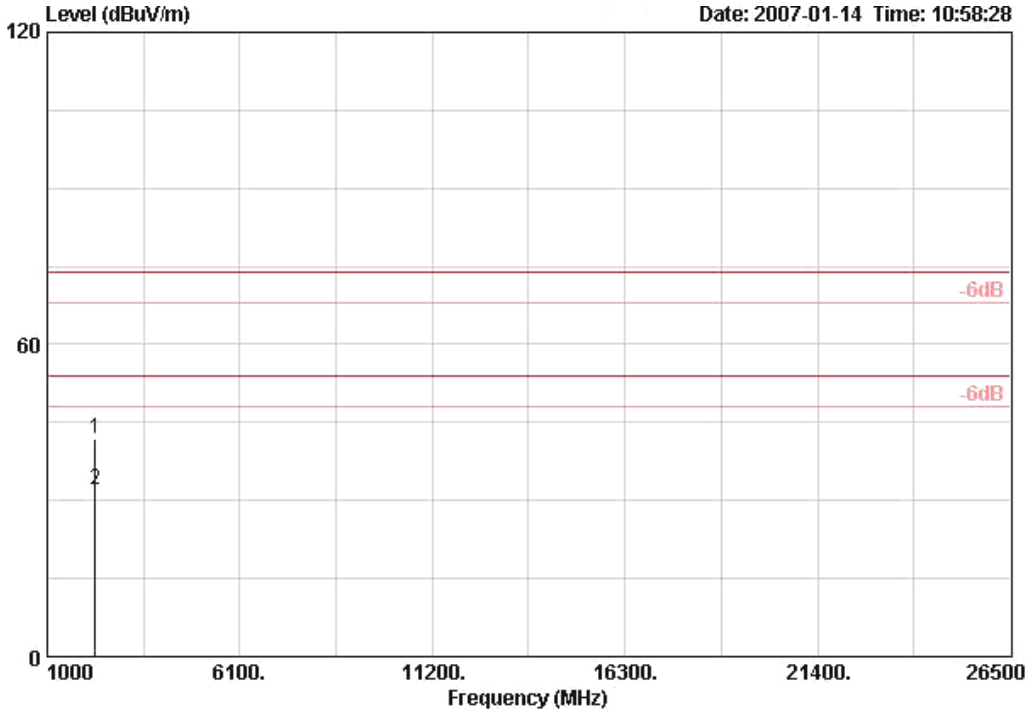
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	4904.040	45.95	-8.05	54.00	43.57	4.30	35.15	33.23	AVERAGE	128	77
2	4904.060	50.84	-23.16	74.00	48.46	4.30	35.15	33.23	PEAK	128	77

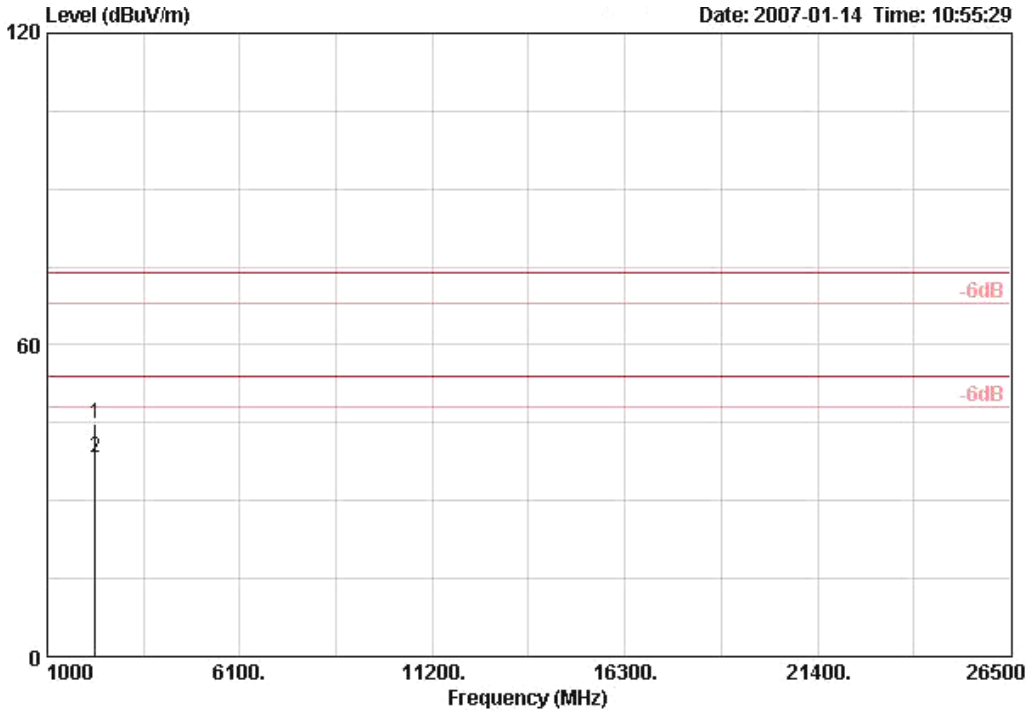
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 1 Ant. A / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2279.900	41.73	-32.27	74.00	46.18	2.69	35.04	27.91	PEAK	100	301
2	2280.000	32.10	-21.90	54.00	36.54	2.69	35.04	27.91	AVERAGE	100	301

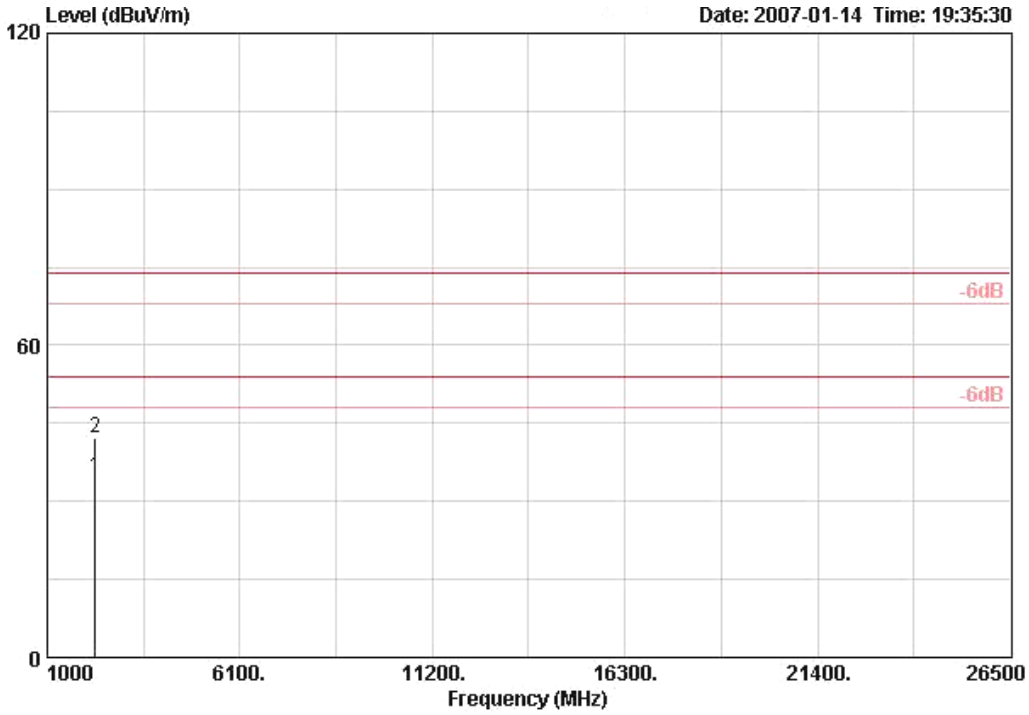
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.020	44.82	-29.18	74.00	49.27	2.69	35.04	27.91	PEAK	100	216
2	2280.040	38.35	-15.65	54.00	42.80	2.69	35.04	27.91	AVERAGE	100	216

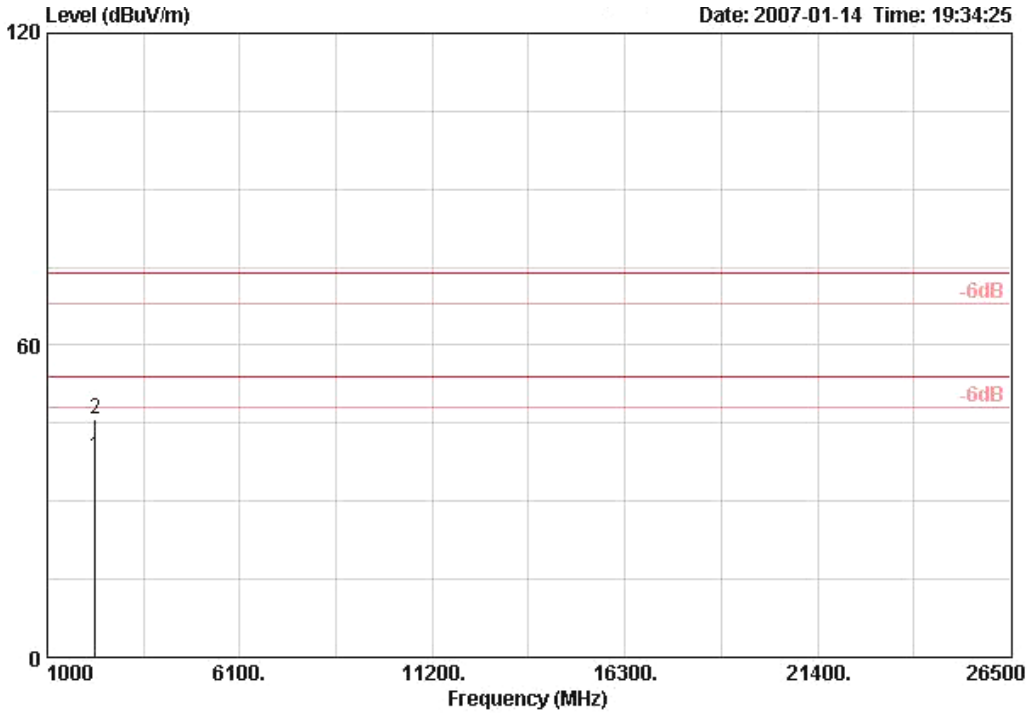
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 6 Ant. A / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.020	34.53	-19.47	54.00	38.98	2.69	35.04	27.91	AVERAGE	225	290
2	2280.060	42.31	-31.69	74.00	46.76	2.69	35.04	27.91	PEAK	225	290

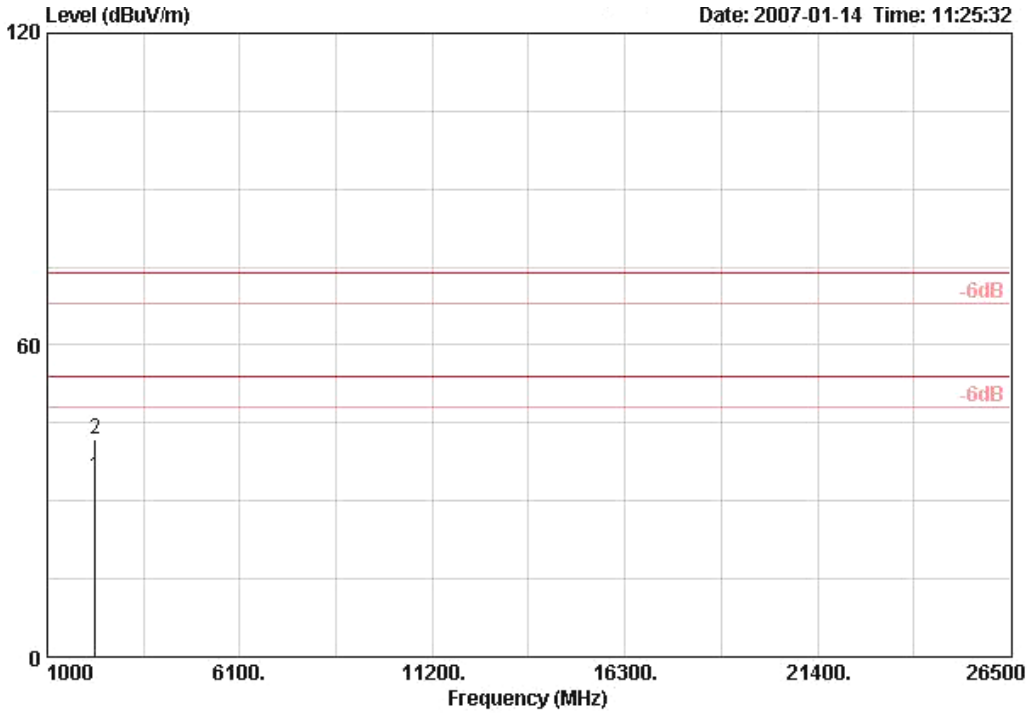
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.000	38.71	-15.29	54.00	43.16	2.69	35.04	27.91	AVERAGE	100	213
2	2280.070	45.76	-28.24	74.00	50.20	2.69	35.04	27.91	PEAK	100	213

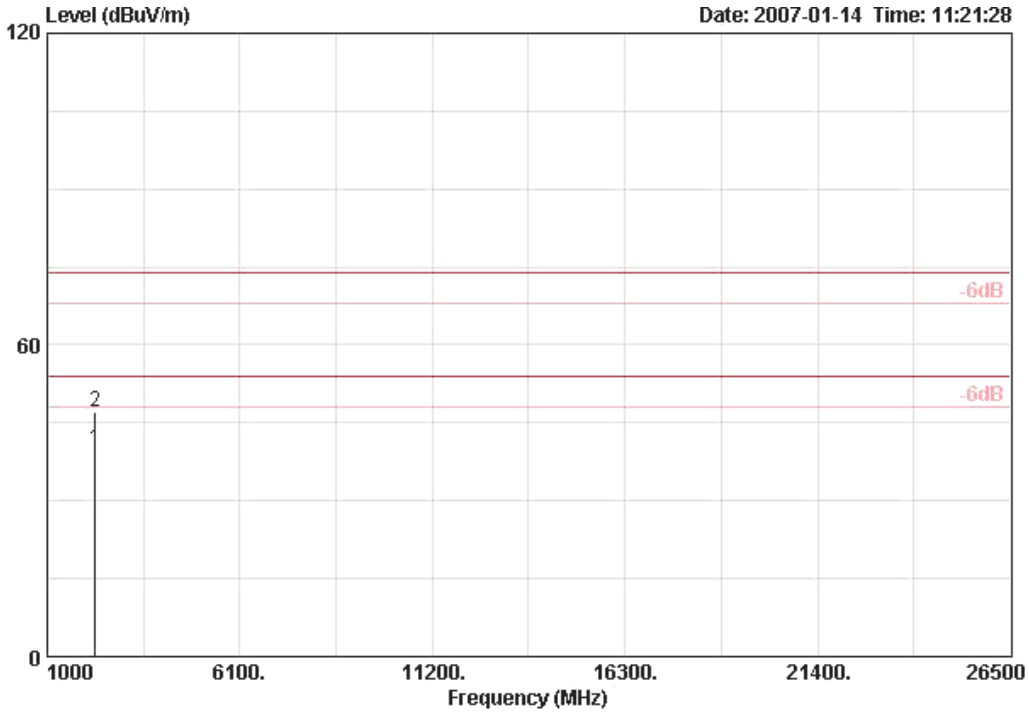
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 11 Ant. A / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.030	34.77	-19.23	54.00	39.21	2.69	35.04	27.91	AVERAGE	263	160
2	2280.190	41.83	-32.17	74.00	46.28	2.69	35.04	27.91	PEAK	263	160

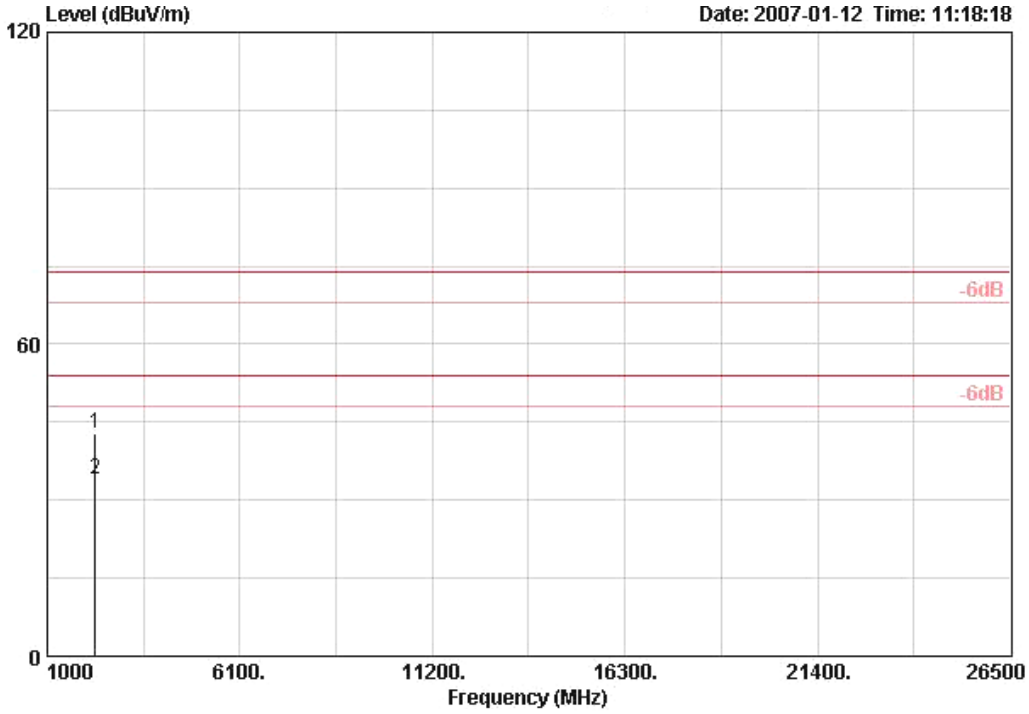
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.030	39.91	-14.09	54.00	44.35	2.69	35.04	27.91	AVERAGE	100	177
2	2280.070	47.05	-26.95	74.00	51.49	2.69	35.04	27.91	PEAK	100	177

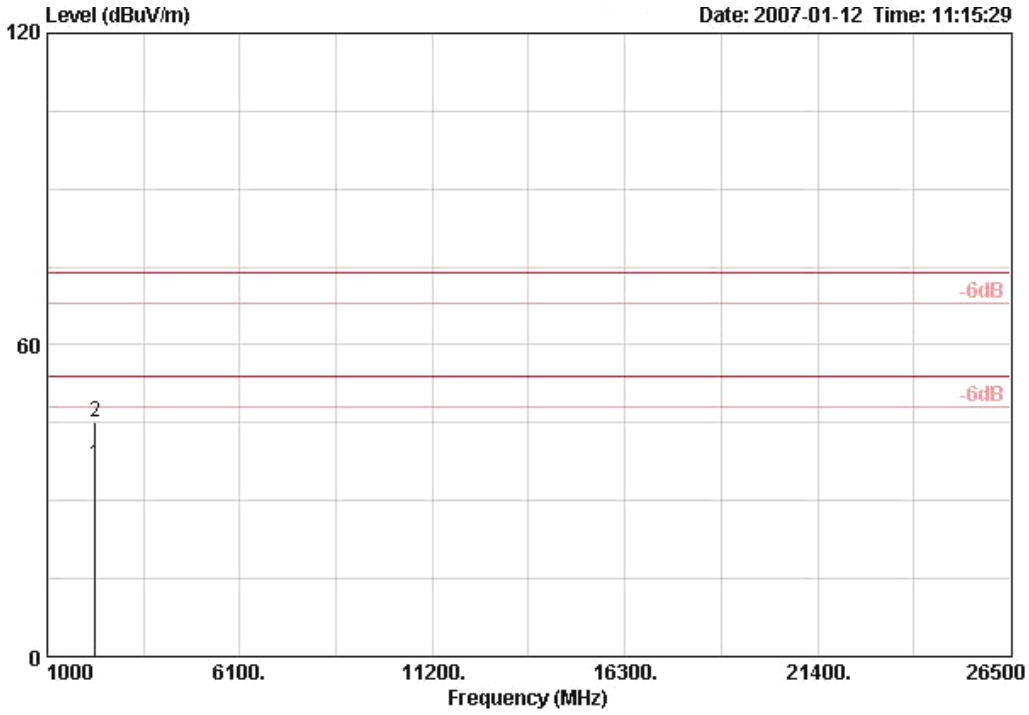
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 1 Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2279.863	42.92	-31.08	74.00	47.37	2.69	35.04	27.91	PEAK	173	150
2	2279.973	34.00	-20.00	54.00	38.44	2.69	35.04	27.91	AVERAGE	173	150

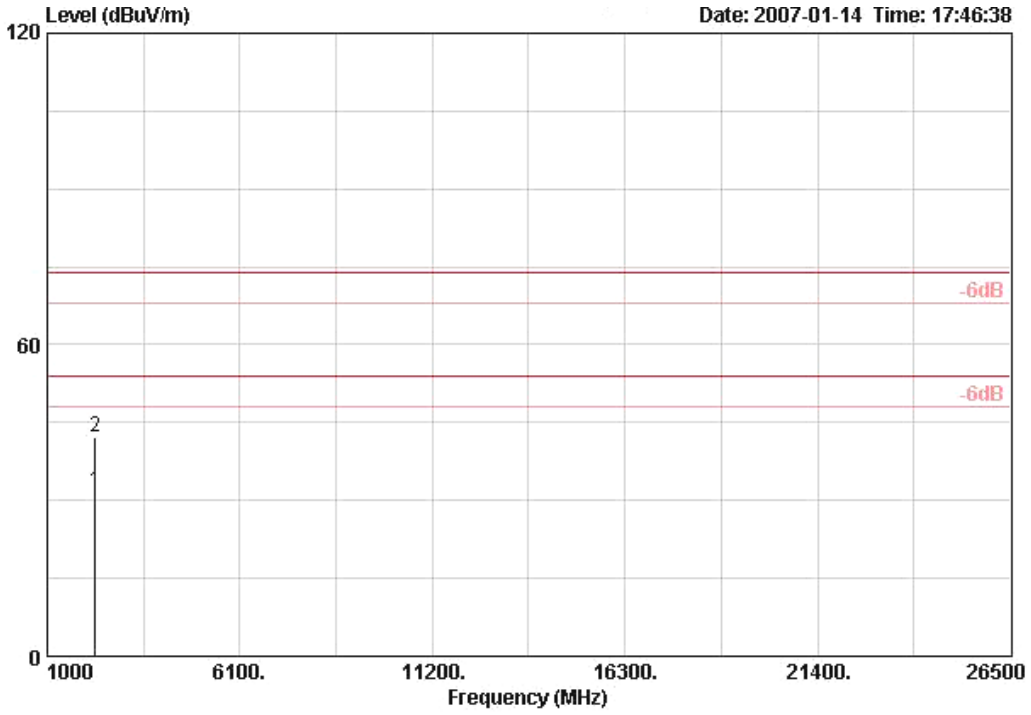
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.050	36.84	-17.16	54.00	41.29	2.69	35.04	27.91	AVERAGE	158	178
2	2280.060	45.27	-28.73	74.00	49.71	2.69	35.04	27.91	PEAK	158	178

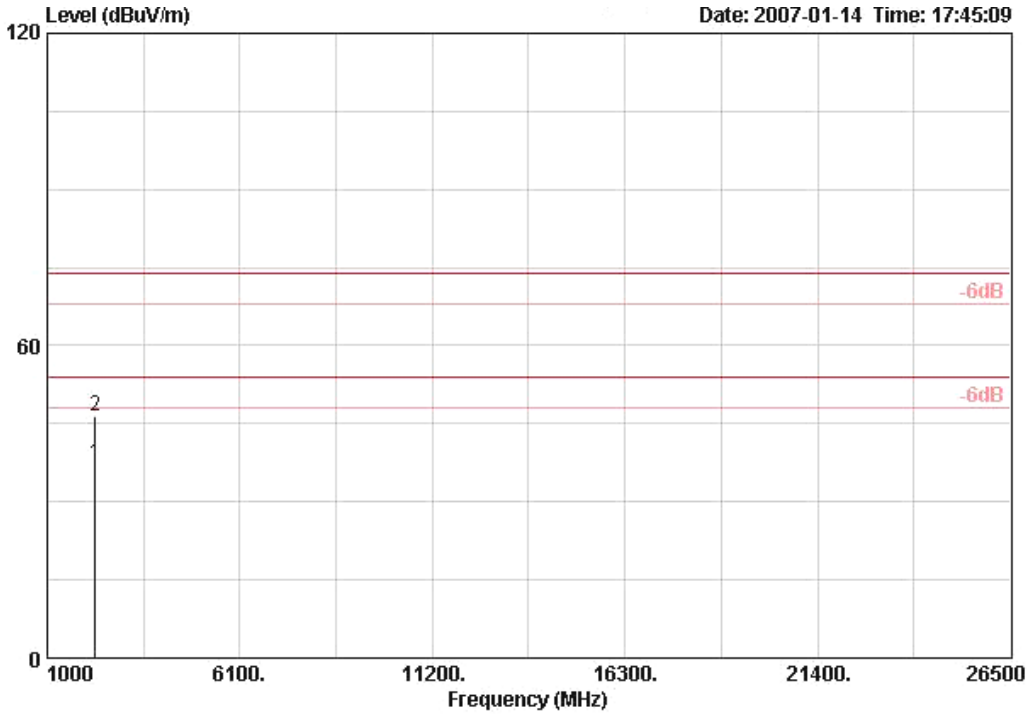
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 6 Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.050	31.71	-22.29	54.00	36.16	2.69	35.04	27.91	AVERAGE	100	189
2	2280.610	42.23	-31.77	74.00	46.67	2.69	35.04	27.91	PEAK	100	189

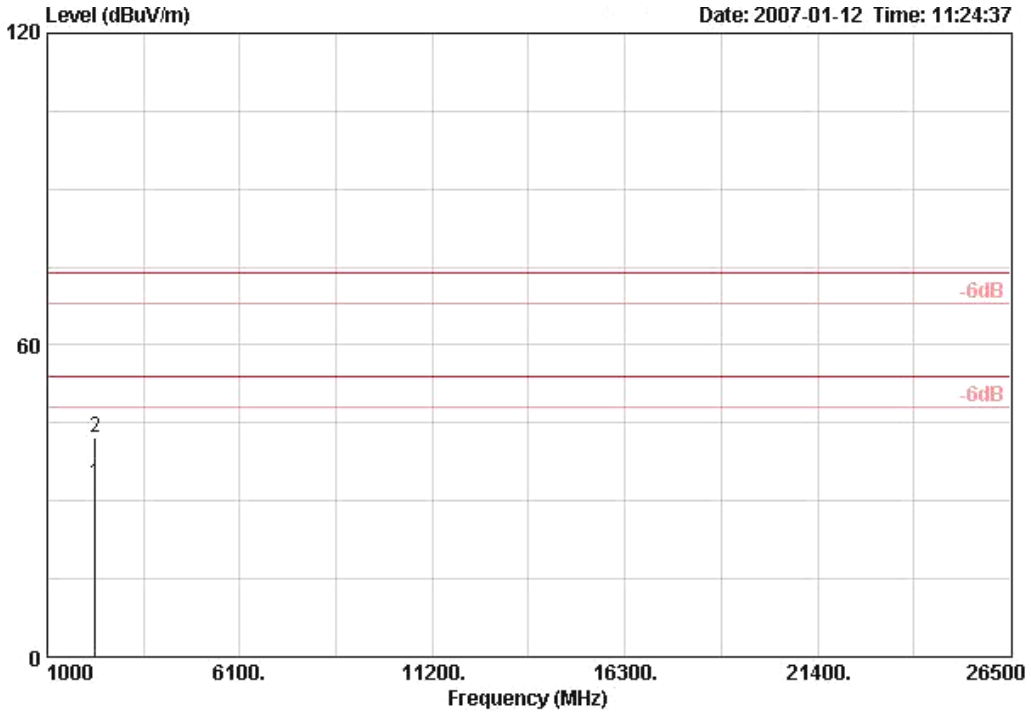
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.000	37.26	-16.74	54.00	41.71	2.69	35.04	27.91	AVERAGE	100	361
2	2280.230	46.57	-27.43	74.00	51.01	2.69	35.04	27.91	PEAK	100	361

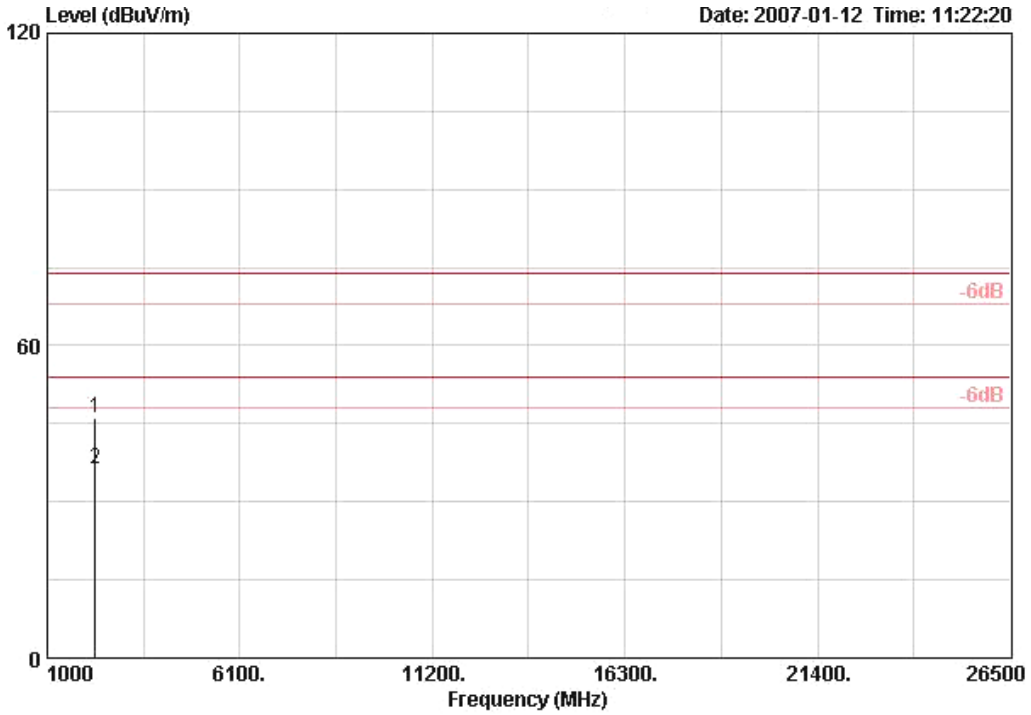
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 11 Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.050	33.46	-20.54	54.00	37.90	2.69	35.04	27.91	AVERAGE	178	150
2	2280.270	42.11	-31.89	74.00	46.55	2.69	35.04	27.91	PEAK	178	150

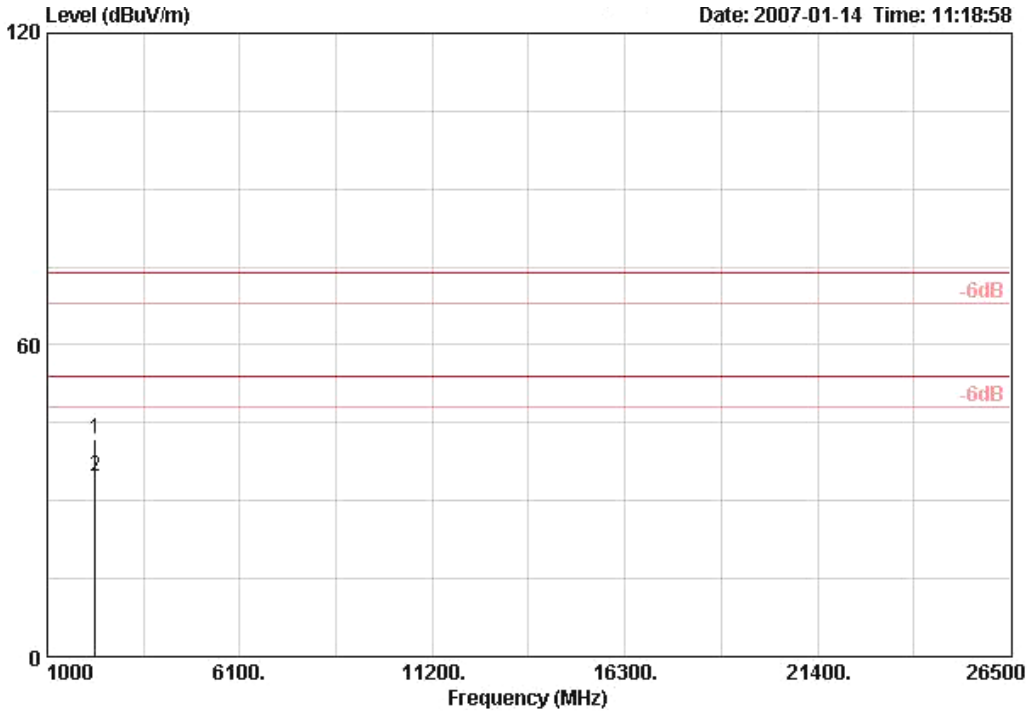
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2279.880	46.02	-27.98	74.00	50.46	2.69	35.04	27.91	PEAK	100	178
2	2280.080	36.34	-17.66	54.00	40.79	2.69	35.04	27.91	AVERAGE	100	178

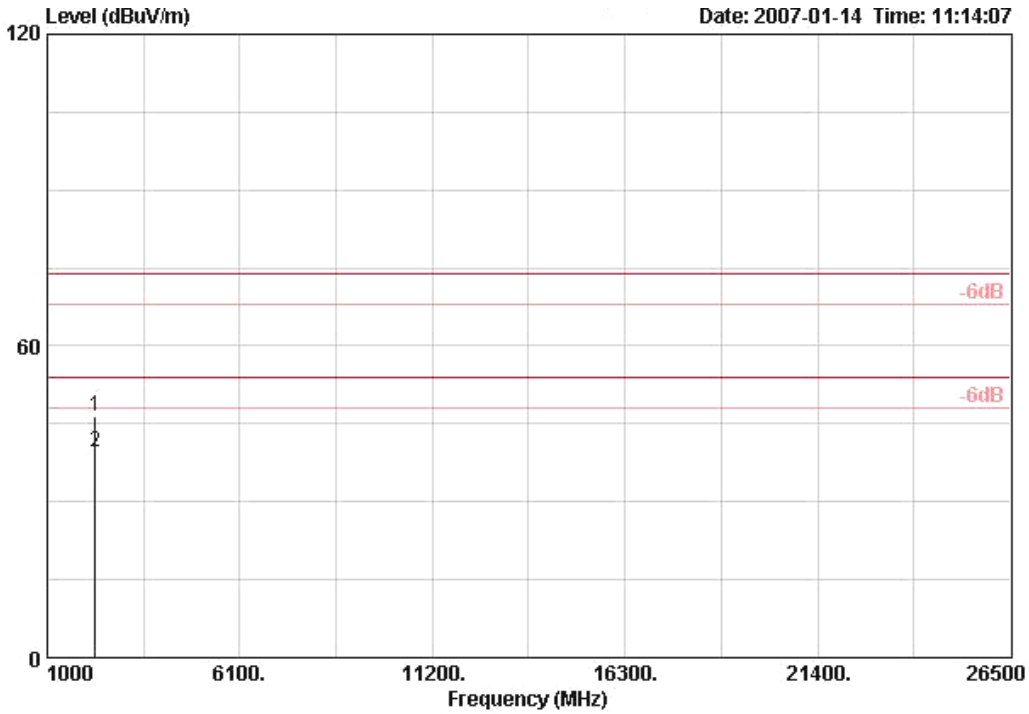
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 3 Ant. A / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2279.900	41.94	-32.06	74.00	46.38	2.69	35.04	27.91	PEAK	211	157
2	2280.060	34.74	-19.26	54.00	39.18	2.69	35.04	27.91	AVERAGE	211	157

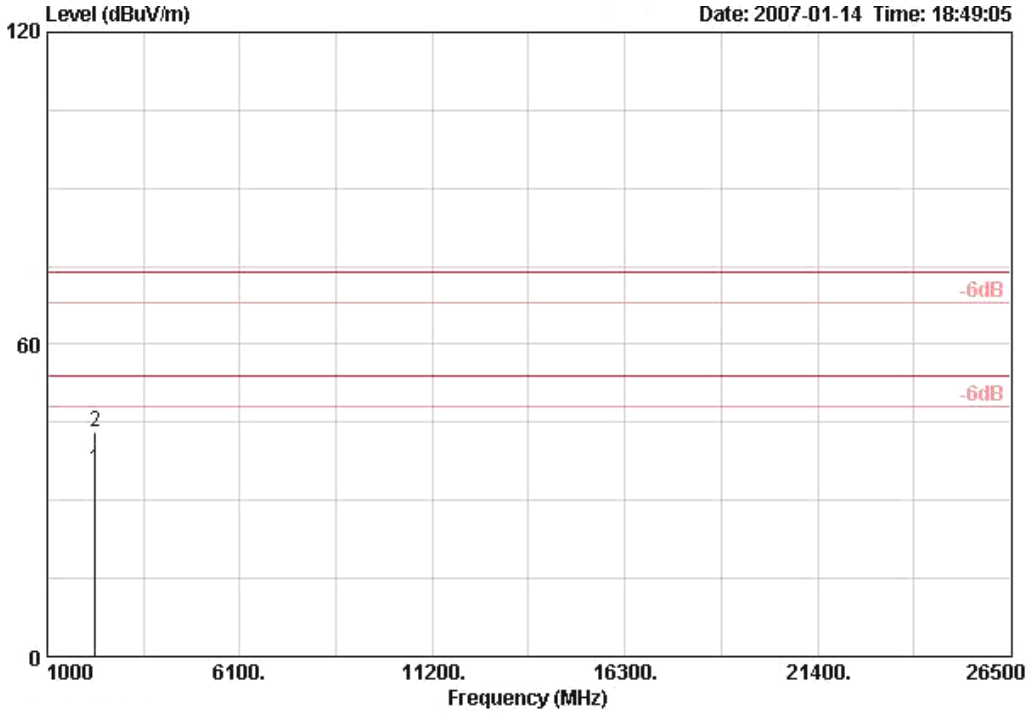
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.060	46.47	-27.53	74.00	50.92	2.69	35.04	27.91	PEAK	100	177
2	2280.100	39.56	-14.44	54.00	44.00	2.69	35.04	27.91	AVERAGE	100	177

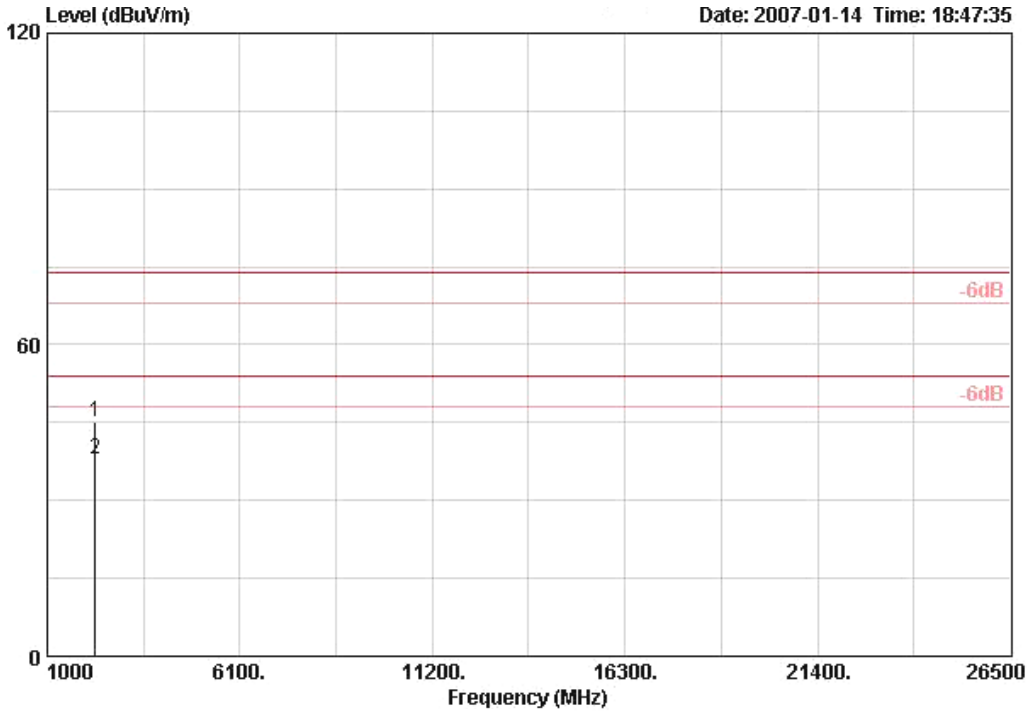
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 6 Ant. A / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.030	35.97	-18.03	54.00	40.42	2.69	35.04	27.91	AVERAGE	172	143
2	2280.120	43.30	-30.70	74.00	47.74	2.69	35.04	27.91	PEAK	172	143

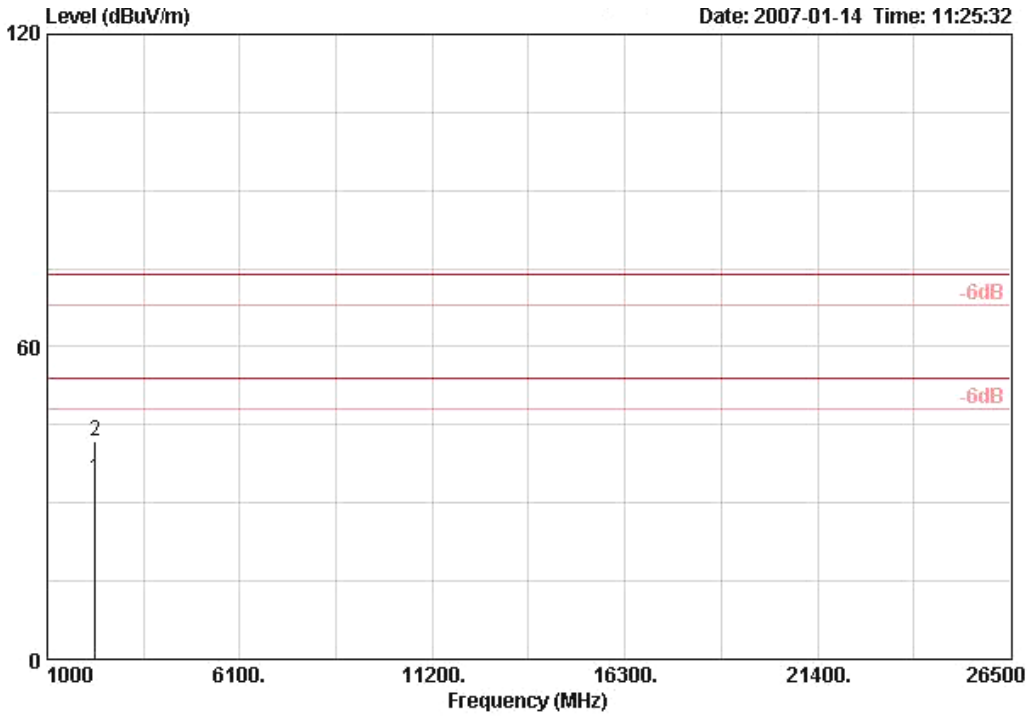
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2279.890	45.19	-28.81	74.00	49.63	2.69	35.04	27.91	PEAK	100	331
2	2280.000	38.07	-15.93	54.00	42.51	2.69	35.04	27.91	AVERAGE	100	331

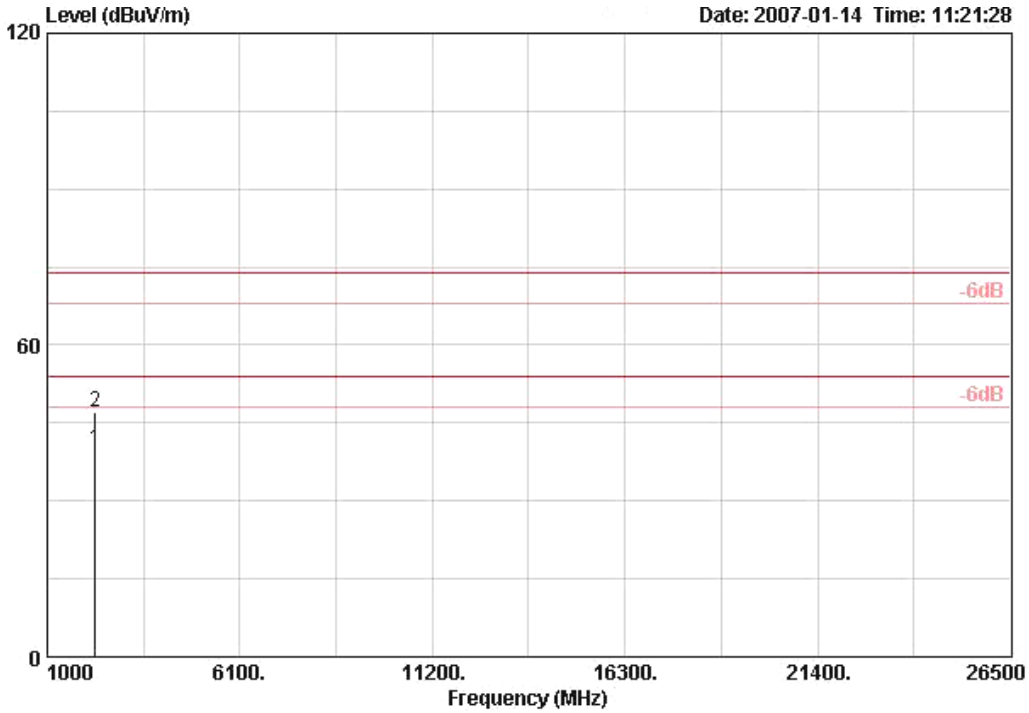
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 9 Ant. A / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.030	34.77	-19.23	54.00	39.21	2.69	35.04	27.91	AVERAGE	263	160
2	2280.190	41.83	-32.17	74.00	46.28	2.69	35.04	27.91	PEAK	263	160

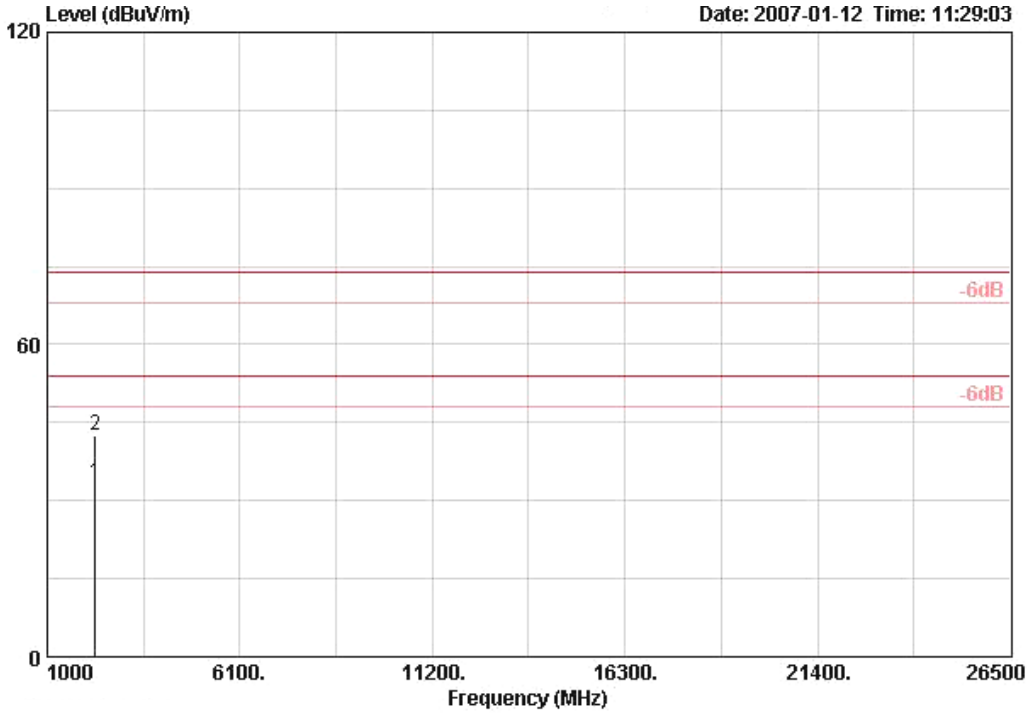
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.030	39.91	-14.09	54.00	44.35	2.69	35.04	27.91	AVERAGE	100	177
2	2280.070	47.05	-26.95	74.00	51.49	2.69	35.04	27.91	PEAK	100	177

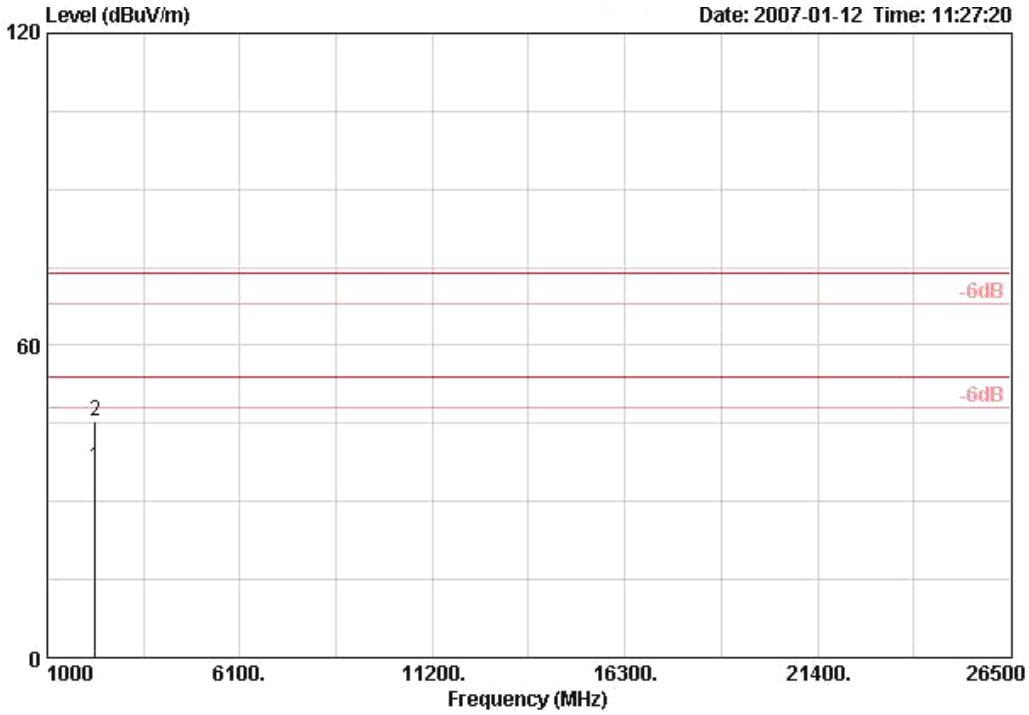
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 3 Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.030	33.50	-20.50	54.00	37.94	2.69	35.04	27.91	AVERAGE	175	149
2	2280.260	42.55	-31.45	74.00	47.00	2.69	35.04	27.91	PEAK	175	149

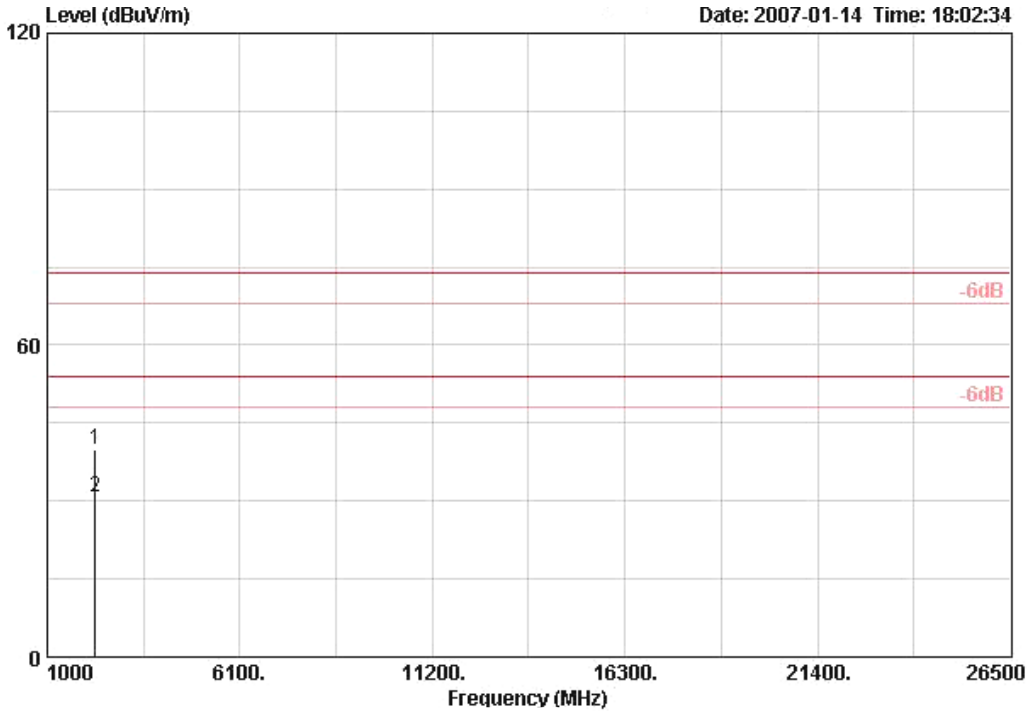
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.050	36.78	-17.22	54.00	41.23	2.69	35.04	27.91	AVERAGE	100	334
2	2280.390	45.51	-28.49	74.00	49.95	2.69	35.04	27.91	PEAK	100	334

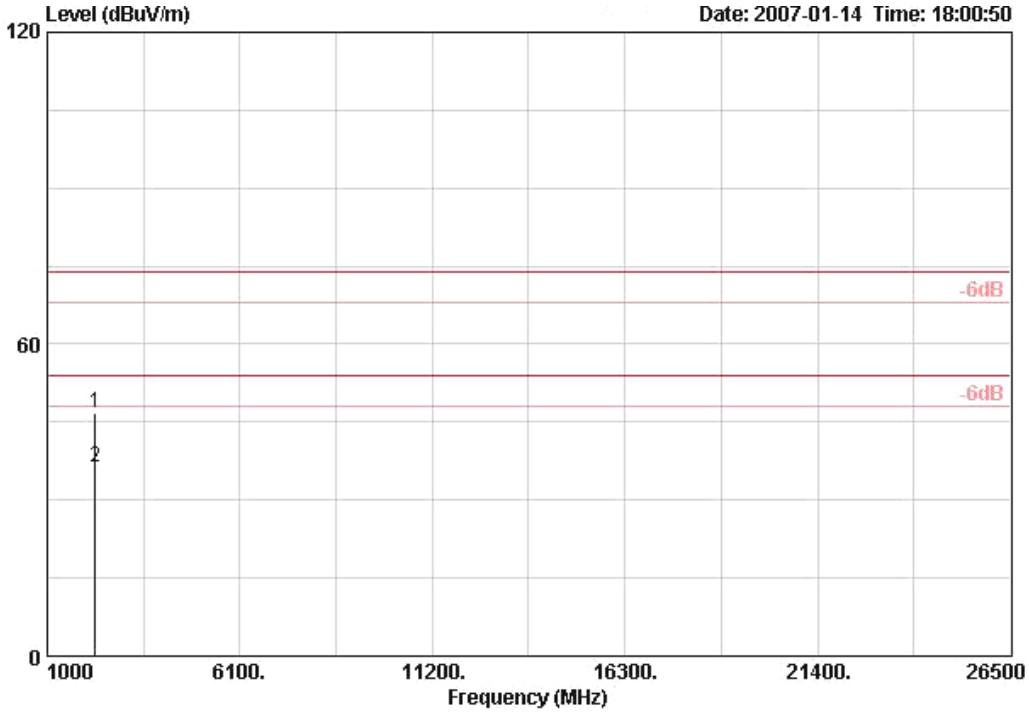
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 6 Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.110	40.04	-33.96	74.00	44.48	2.69	35.04	27.91	PEAK	100	291
2	2280.120	30.67	-23.33	54.00	35.11	2.69	35.04	27.91	AVERAGE	100	291

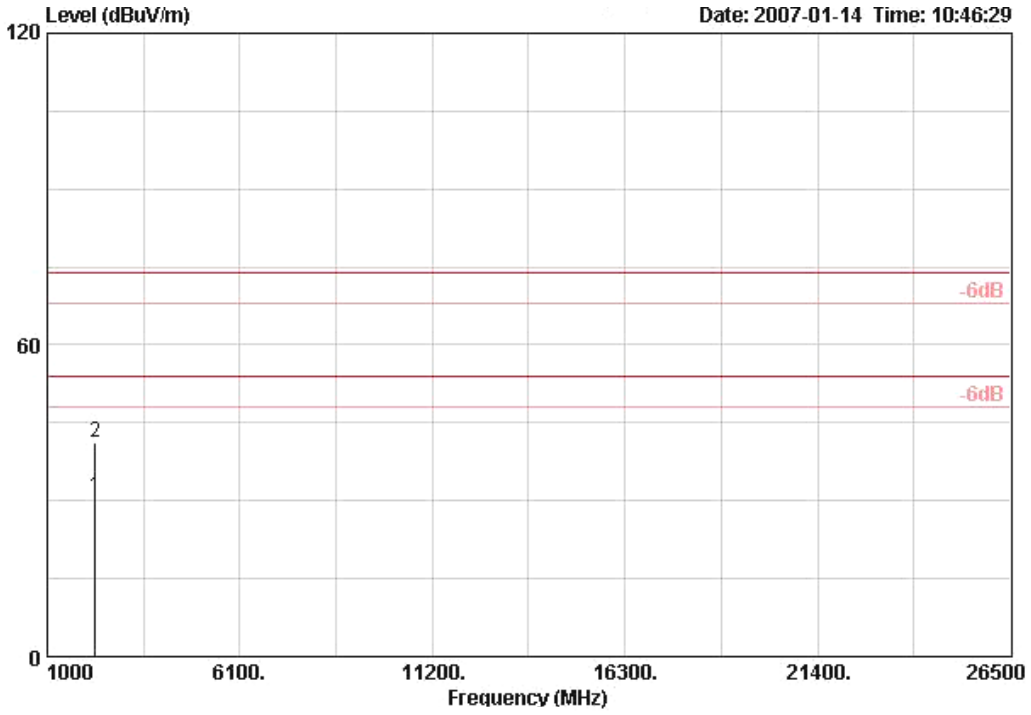
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2279.860	46.63	-27.37	74.00	51.08	2.69	35.04	27.91	PEAK	129	217
2	2280.120	36.32	-17.68	54.00	40.77	2.69	35.04	27.91	AVERAGE	129	217

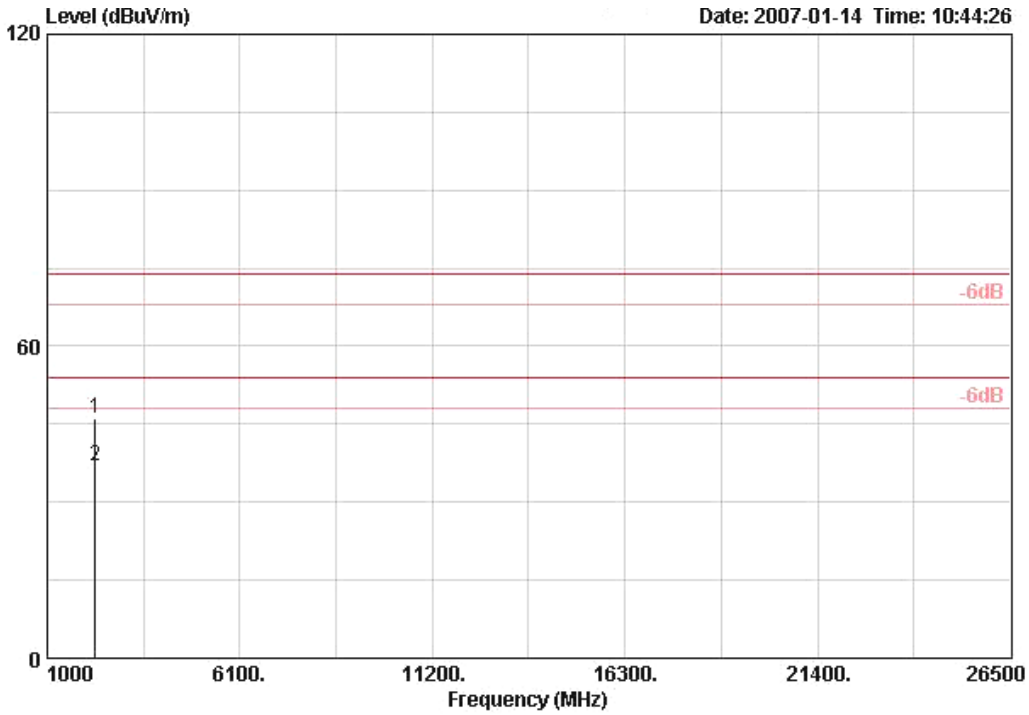
Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 9 Ant. A + Ant. B / Mode 2

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2280.000	30.89	-23.11	54.00	35.34	2.69	35.04	27.91	AVERAGE	100	344
2	2280.220	41.31	-32.69	74.00	45.75	2.69	35.04	27.91	PEAK	100	344

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2279.780	46.14	-27.86	74.00	50.58	2.69	35.04	27.91	PEAK	100	214
2	2279.980	37.10	-16.90	54.00	41.55	2.69	35.04	27.91	AVERAGE	100	214

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.

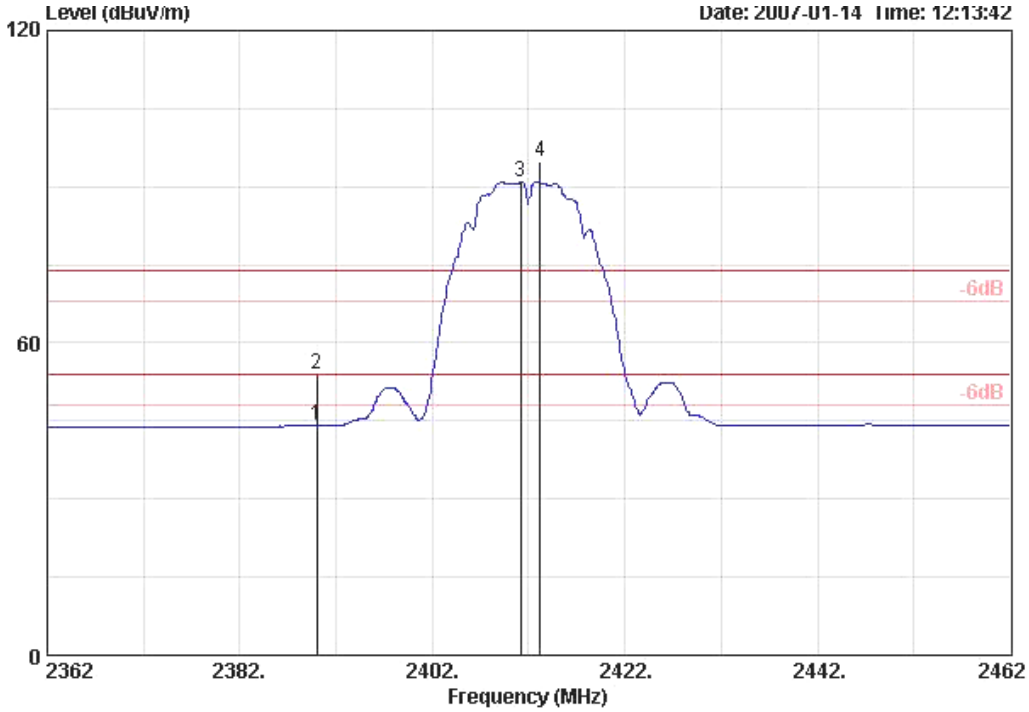
4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 20MHz Channel 1, 11 Ant. A / Mode 2

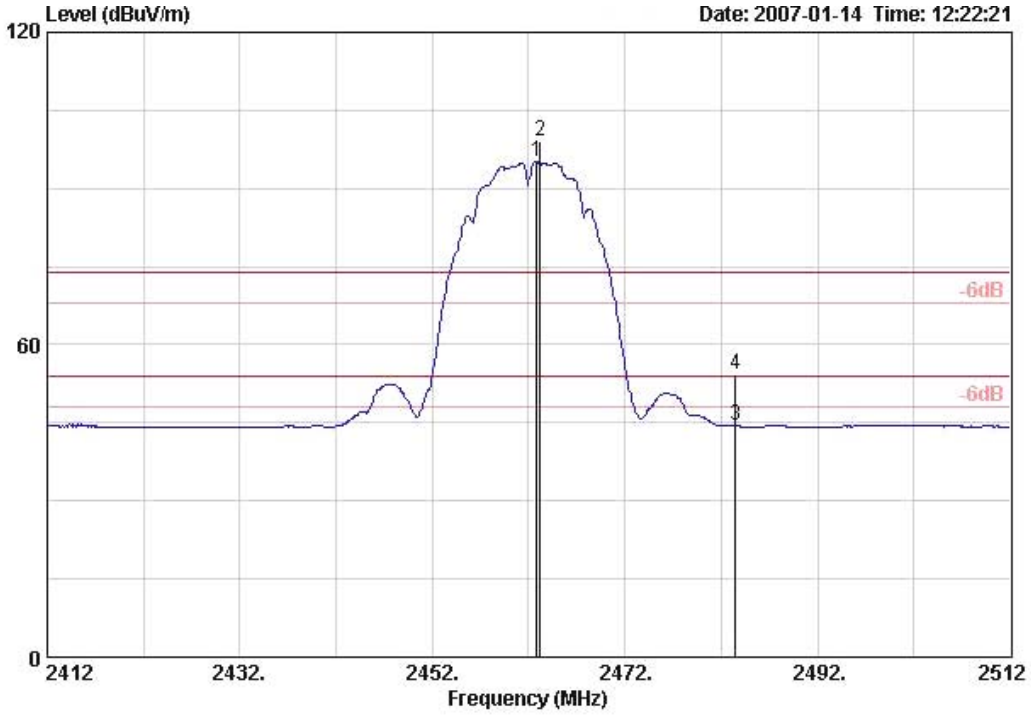
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2390.000	43.99	-10.01	54.00	13.06	2.76	0.00	28.17	AVERAGE	100	298
2	2390.000	53.82	-20.18	74.00	22.88	2.76	0.00	28.17	PEAK	100	298
3 *	2411.200			54.00	60.03	2.79	0.00	28.21	AVERAGE	100	298
4	2413.200			74.00	63.88	2.79	0.00	28.21	PEAK	100	298

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

Channel 11

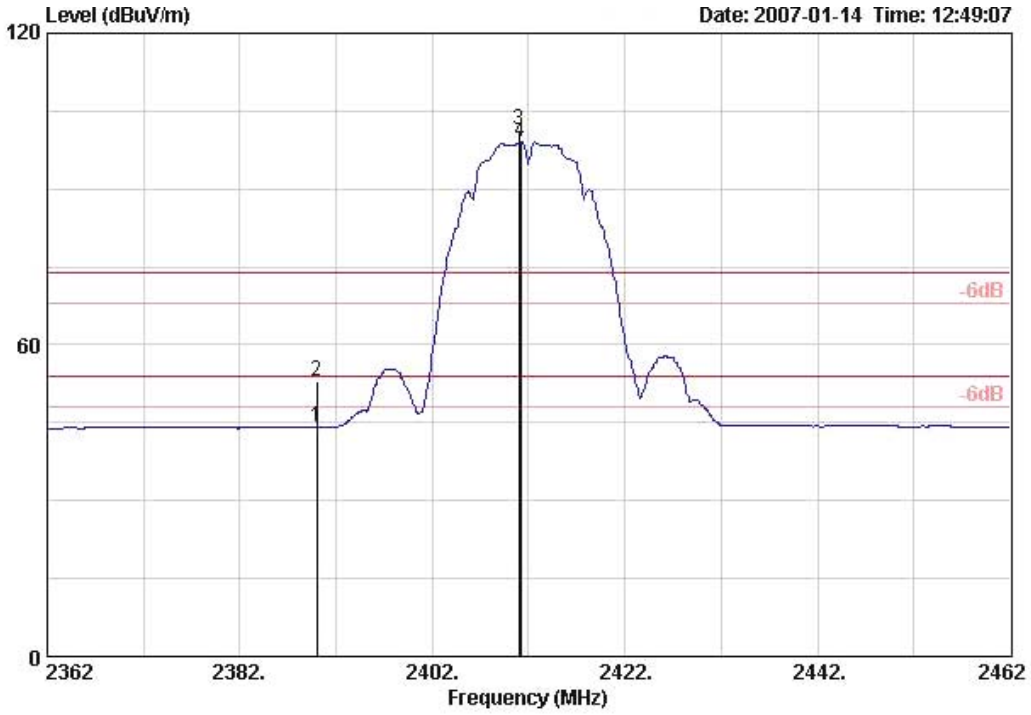


	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 *	2462.800			54.00	64.02	2.81	0.00	28.32	AVERAGE	100	299
2	2463.200			74.00	67.82	2.81	0.00	28.32	PEAK	100	299
3	2483.500	44.34	-9.66	54.00	13.14	2.84	0.00	28.36	AVERAGE	100	299
4	2483.500	54.34	-19.66	74.00	23.14	2.84	0.00	28.36	PEAK	100	299

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

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 20MHz Channel 1, 11 Ant. A + Ant. B / Mode 2

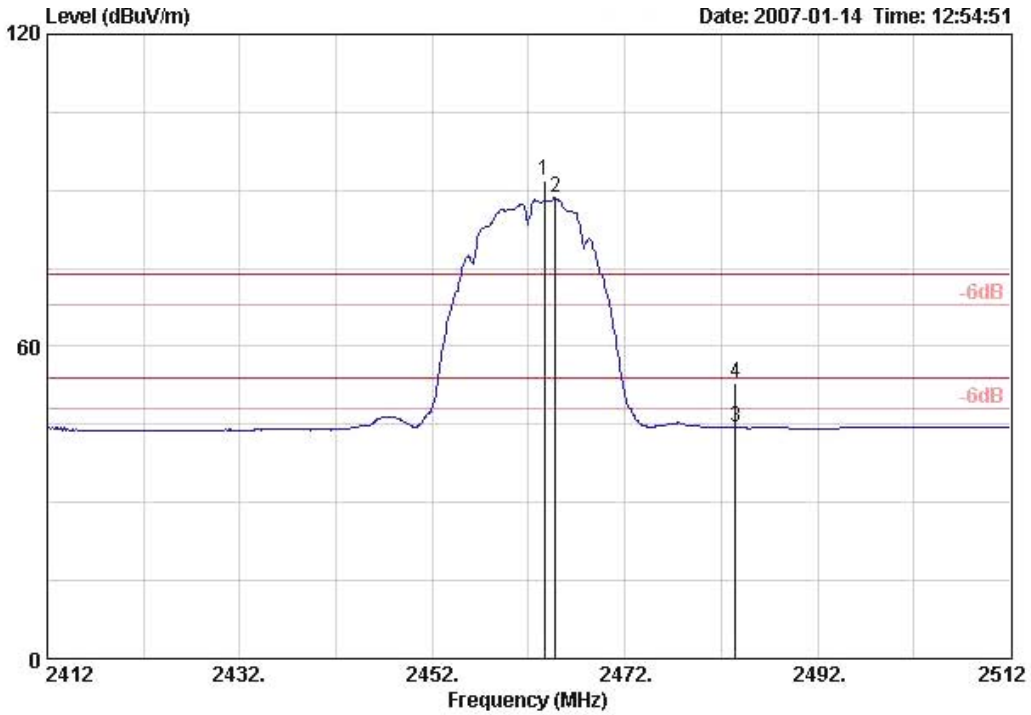
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2390.000	44.13	-9.87	54.00	13.20	2.76	0.00	28.17	AVERAGE	100	212
2	2390.000	52.93	-21.07	74.00	21.99	2.76	0.00	28.17	PEAK	100	212
3	2411.000			74.00	70.32	2.79	0.00	28.21	PEAK	100	212
4 *	2411.200			54.00	68.05	2.79	0.00	28.21	AVERAGE	100	212

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

Channel 11

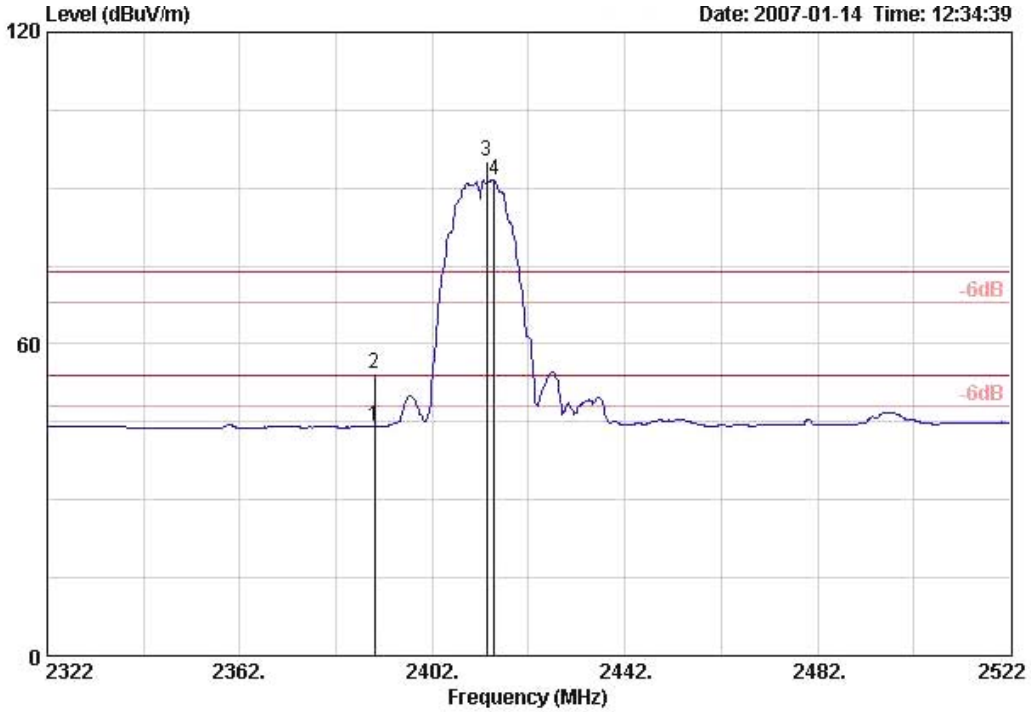


	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2463.600			74.00	60.90	2.81	0.00	28.32	PEAK	100	7
2 *	2464.800			54.00	57.31	2.81	0.00	28.32	AVERAGE	100	7
3	2483.500	44.38	-9.62	54.00	13.18	2.84	0.00	28.36	AVERAGE	100	7
4	2483.500	52.85	-21.15	74.00	21.65	2.84	0.00	28.36	PEAK	100	7

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

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 40MHz Channel 3, 9 Ant. A / Mode 2

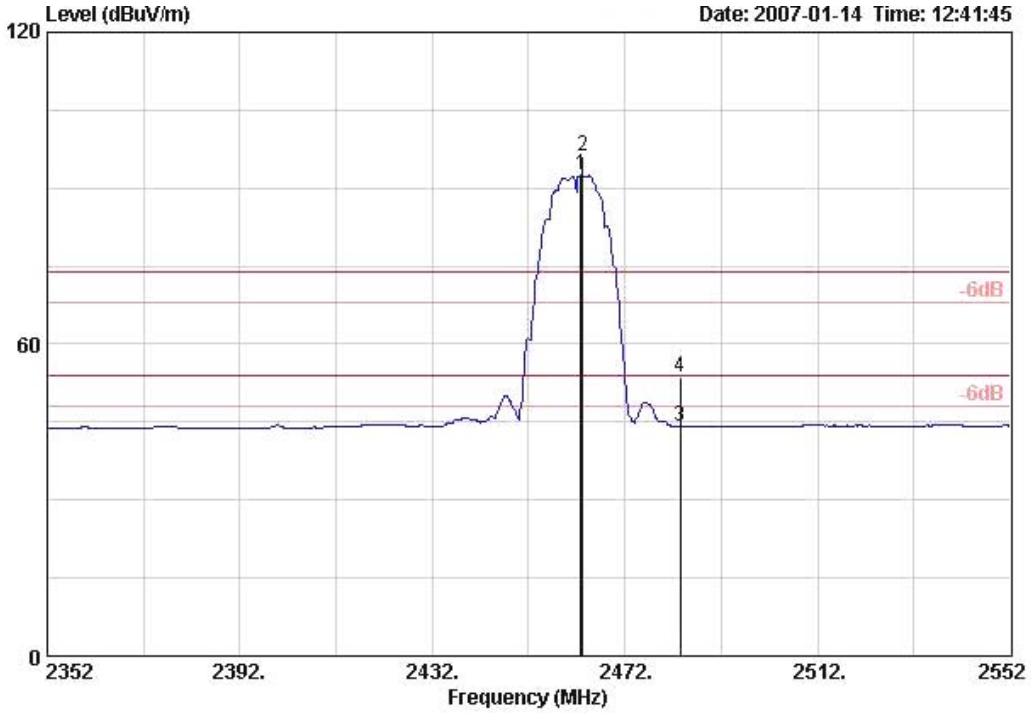
Channel 3



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2390.000	44.05	-9.95	54.00	13.12	2.76	0.00	28.17	AVERAGE	121	298
2	2390.000	54.34	-19.66	74.00	23.40	2.76	0.00	28.17	PEAK	121	298
3	2413.200			74.00	64.26	2.79	0.00	28.21	PEAK	121	298
4 *	2414.800			54.00	60.65	2.79	0.00	28.21	AVERAGE	121	298

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

Channel 9

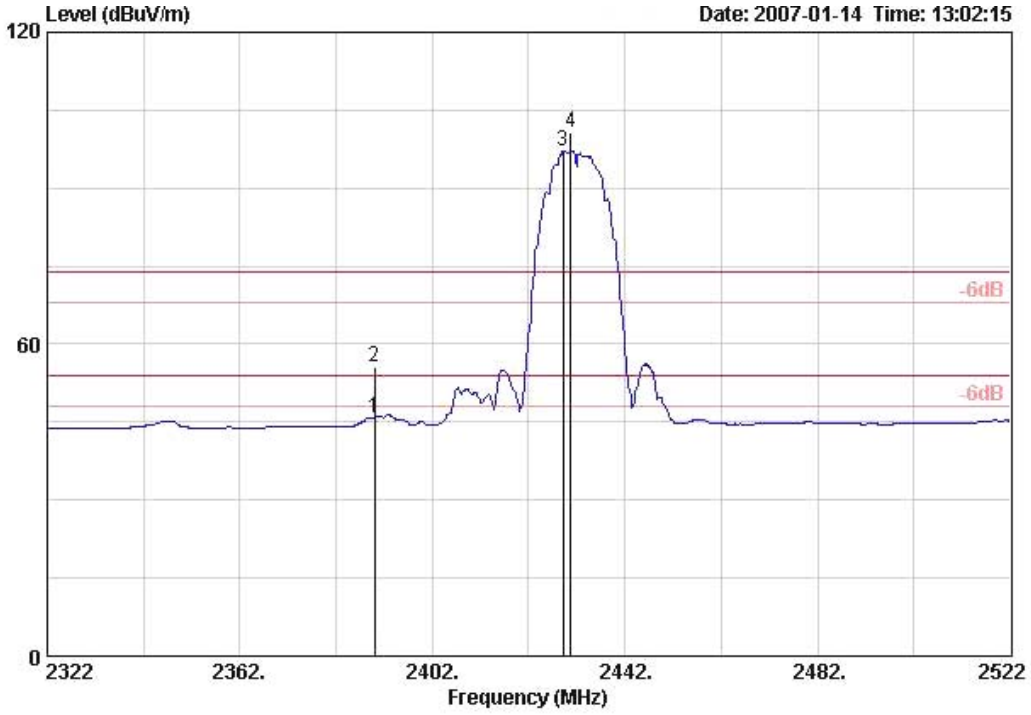


	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 *	2462.800			54.00	61.35	2.81	0.00	28.32	AVERAGE	100	246
2	2463.200			74.00	65.12	2.81	0.00	28.32	PEAK	100	246
3	2483.500	44.14	-9.86	54.00	12.94	2.84	0.00	28.36	AVERAGE	100	246
4	2483.500	53.63	-20.37	74.00	22.43	2.84	0.00	28.36	PEAK	100	246

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

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11b 40MHz Channel 3, 9 Ant. A + Ant. B / Mode 2

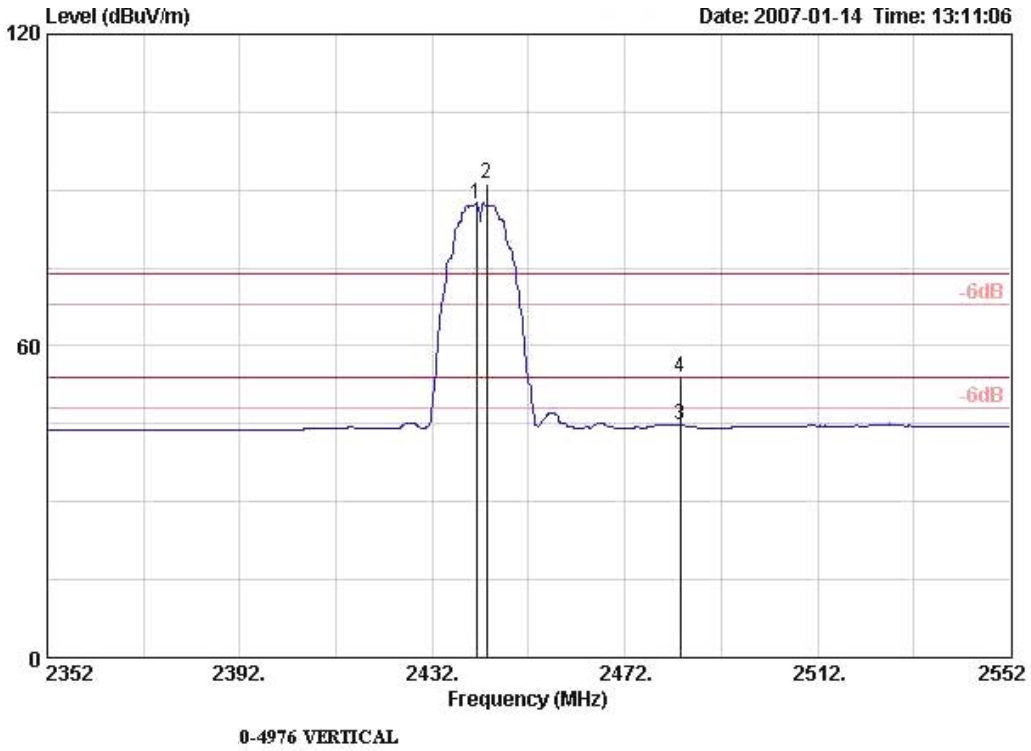
Channel 3



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2390.000	45.89	-8.11	54.00	14.96	2.76	0.00	28.17	AVERAGE	105	59
2	2390.000	55.55	-18.45	74.00	24.62	2.76	0.00	28.17	PEAK	105	59
3 *	2429.200			54.00	66.06	2.79	0.00	28.25	AVERAGE	105	59
4	2430.800			74.00	69.76	2.79	0.00	28.25	PEAK	105	59

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

Channel 9



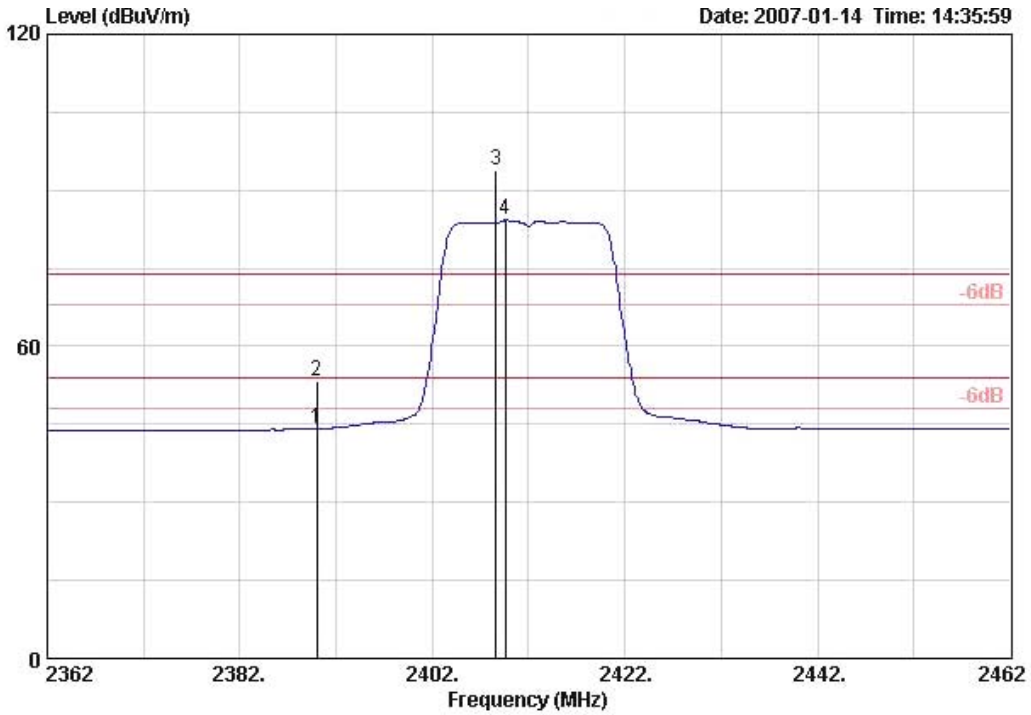
0-4976 VERTICAL

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 *	2441.200			54.00	56.39	2.79	0.00	28.29	AVERAGE	100	7
2	2443.200			74.00	60.04	2.79	0.00	28.29	PEAK	100	7
3	2483.500	44.69	-9.31	54.00	13.49	2.84	0.00	28.36	AVERAGE	100	7
4	2483.500	53.85	-20.15	74.00	22.65	2.84	0.00	28.36	PEAK	100	7

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

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 1, 11 Ant. A / Mode 2

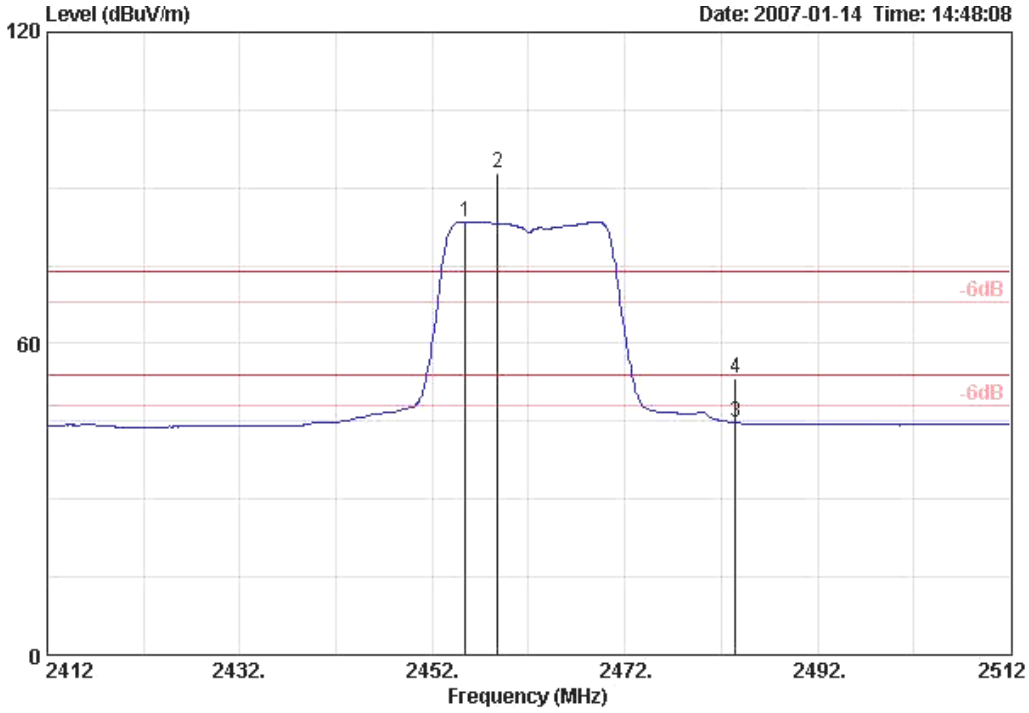
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2390.000	44.10	-9.90	54.00	13.16	2.76	0.00	28.17	AVERAGE	152	173
2	2390.000	53.46	-20.54	74.00	22.52	2.76	0.00	28.17	PEAK	152	173
3	2408.600			74.00	62.94	2.79	0.00	28.21	PEAK	152	173
4	2409.600			54.00	53.20	2.79	0.00	28.21	AVERAGE	152	173

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

Channel 11

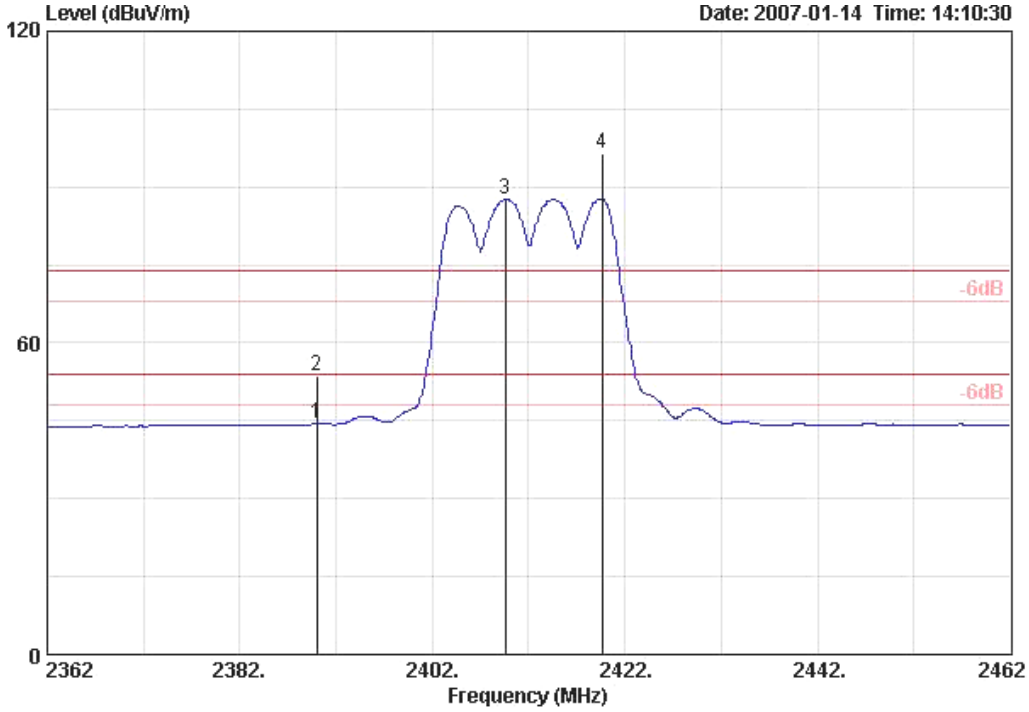


	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2455.400			54.00	52.33	2.81	0.00	28.32	AVERAGE	156	244
2	2458.800			74.00	61.85	2.81	0.00	28.32	PEAK	156	244
3	2483.500	44.70	-9.30	54.00	13.50	2.84	0.00	28.36	AVERAGE	156	244
4	2483.500	53.19	-20.81	74.00	21.98	2.84	0.00	28.36	PEAK	156	244

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

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 20MHz Channel 1, 11 Ant. A + Ant. B / Mode 2

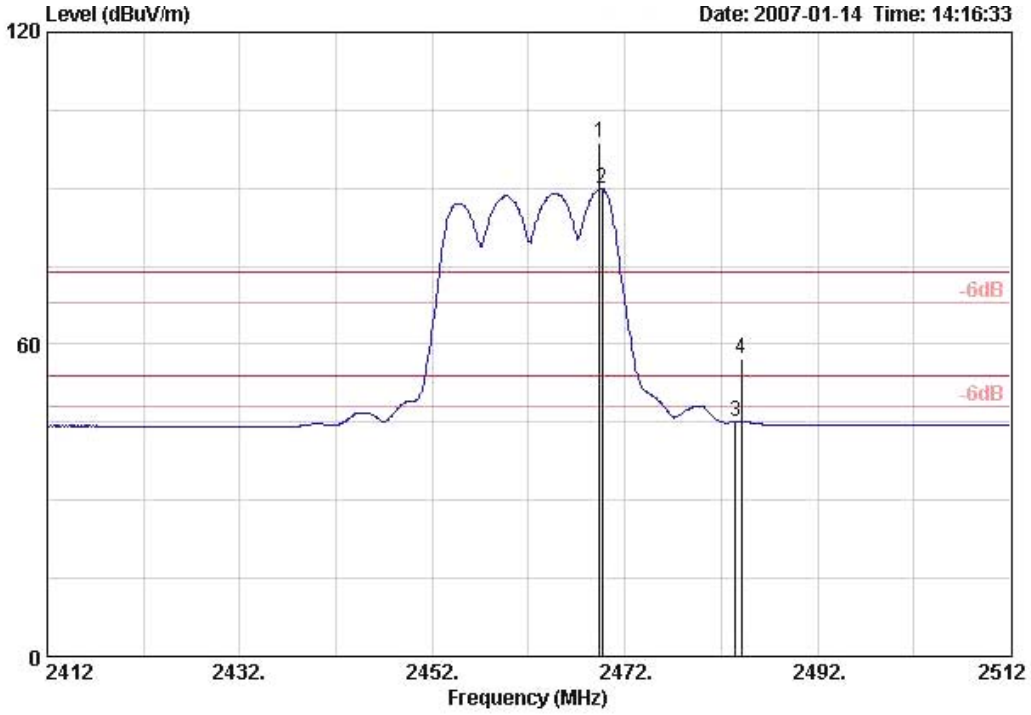
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2390.000	44.38	-9.62	54.00	13.45	2.76	0.00	28.17	AVERAGE	100	212
2	2390.000	53.66	-20.34	74.00	22.72	2.76	0.00	28.17	PEAK	100	212
3 *	2409.600			54.00	56.75	2.79	0.00	28.21	AVERAGE	100	212
4	2419.600			74.00	65.47	2.79	0.00	28.25	PEAK	100	212

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

Channel 11

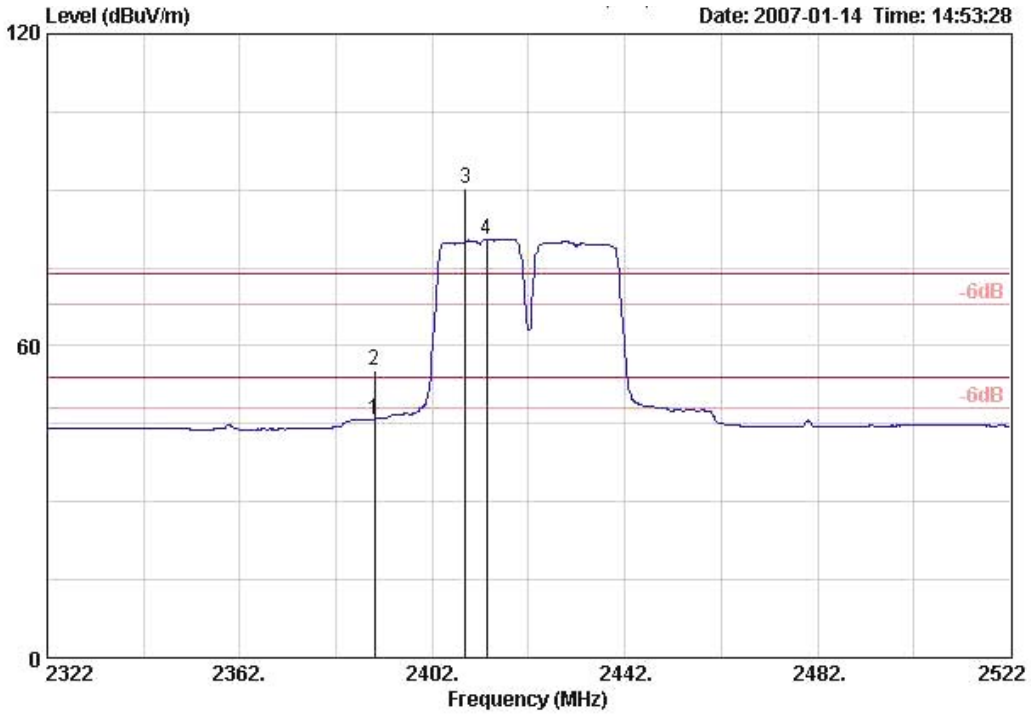


	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2469.400			74.00	67.64	2.81	0.00	28.32	PEAK	106	69
2 *	2469.600			54.00	58.63	2.81	0.00	28.32	AVERAGE	106	69
3	2483.500	45.08	-8.92	54.00	13.88	2.84	0.00	28.36	AVERAGE	106	69
4	2484.100	57.17	-16.83	74.00	25.97	2.84	0.00	28.36	PEAK	106	69

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

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 3, 9 Ant. A / Mode 2

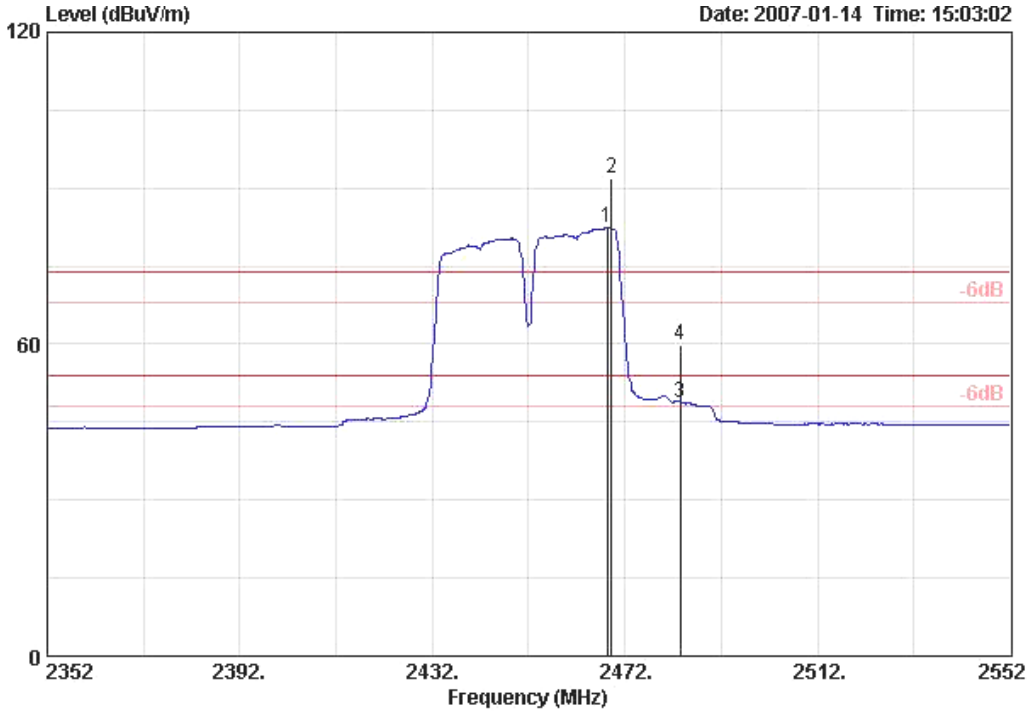
Channel 3



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2390.000	45.84	-8.16	54.00	14.90	2.76	0.00	28.17	AVERAGE	126	299
2	2390.000	55.28	-18.72	74.00	24.34	2.76	0.00	28.17	PEAK	126	299
3	2408.800			74.00	59.18	2.79	0.00	28.21	PEAK	126	299
4	2413.200			54.00	49.43	2.79	0.00	28.21	AVERAGE	126	299

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

Channel 9

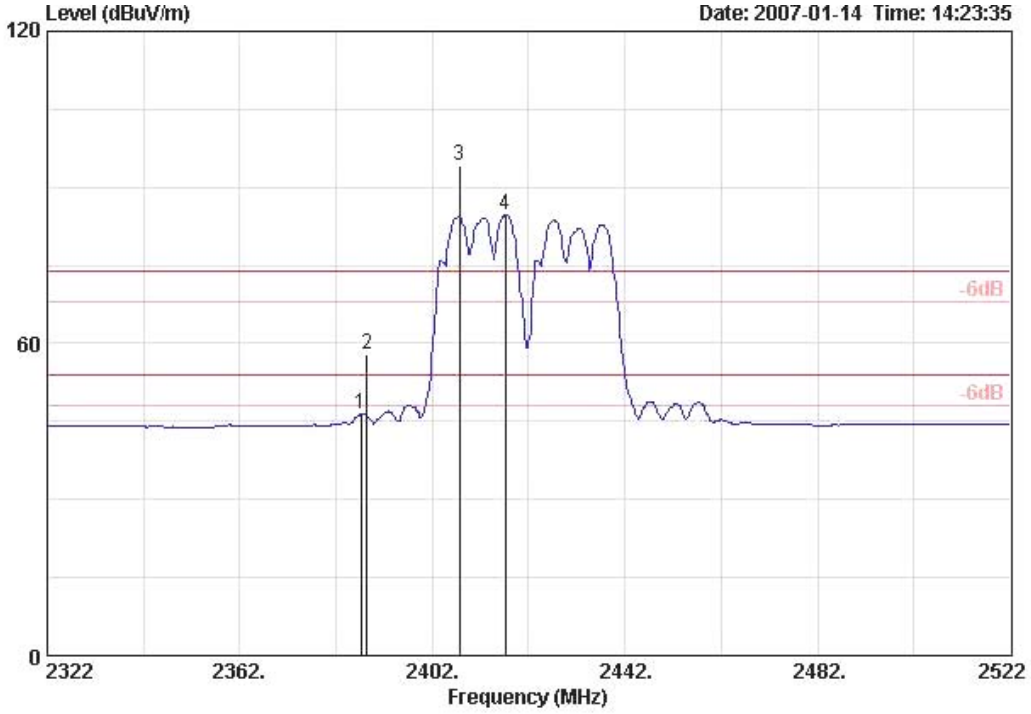


	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2468.400			54.00	51.18	2.81	0.00	28.32	AVERAGE	149	168
2	2469.200			74.00	60.73	2.81	0.00	28.32	PEAK	149	168
3 !	2483.500	48.87	-5.13	54.00	17.67	2.84	0.00	28.36	AVERAGE	149	168
4	2483.500	59.93	-14.07	74.00	28.73	2.84	0.00	28.36	PEAK	149	168

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

Temperature	23℃	Humidity	58%
Test Engineer	Jordan Hsiao	Configurations	802.11g 40MHz Channel 3, 9 Ant. A + Ant. B / Mode 2

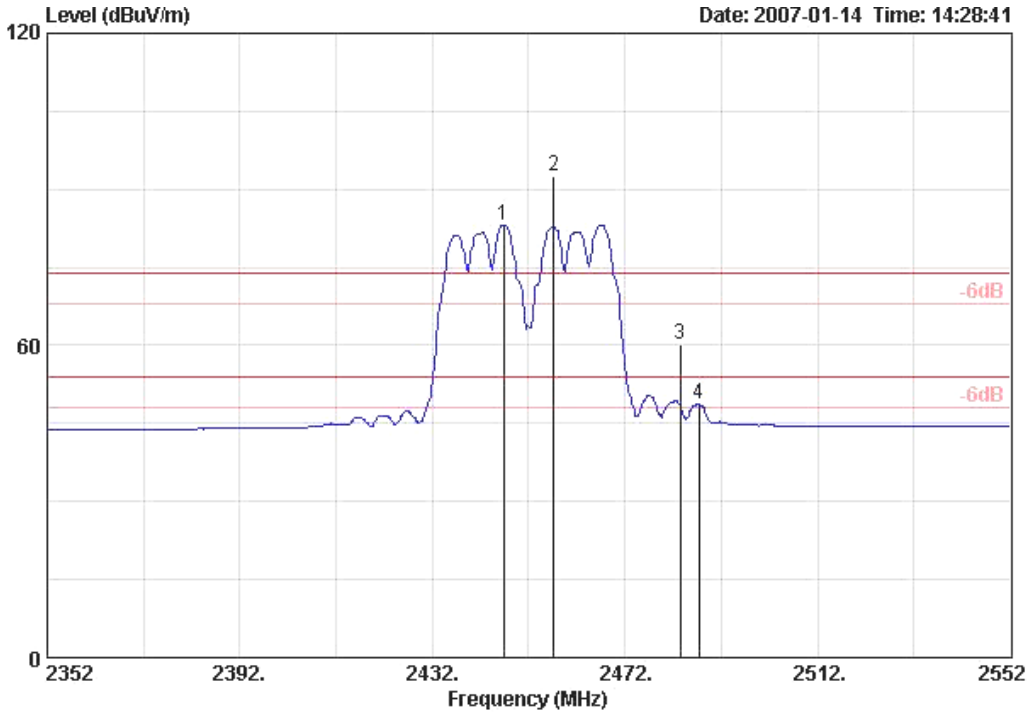
Channel 3



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2387.200	46.33	-7.67	54.00	15.39	2.76	0.00	28.17	AVERAGE	156	171
2	2388.400	57.72	-16.28	74.00	26.79	2.76	0.00	28.17	PEAK	156	171
3	2407.600			74.00	63.30	2.79	0.00	28.21	PEAK	156	171
4	2417.200			54.00	53.62	2.79	0.00	28.21	AVERAGE	156	171

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

Channel 9



	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	2446.800			54.00	51.99	2.81	0.00	28.29	AVERAGE	100	60
2	2457.200			74.00	61.35	2.81	0.00	28.32	PEAK	100	60
3	2483.500	60.13	-13.87	74.00	28.93	2.84	0.00	28.36	PEAK	100	60
4 !	2487.300	48.66	-5.34	54.00	17.46	2.84	0.00	28.36	AVERAGE	100	60

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

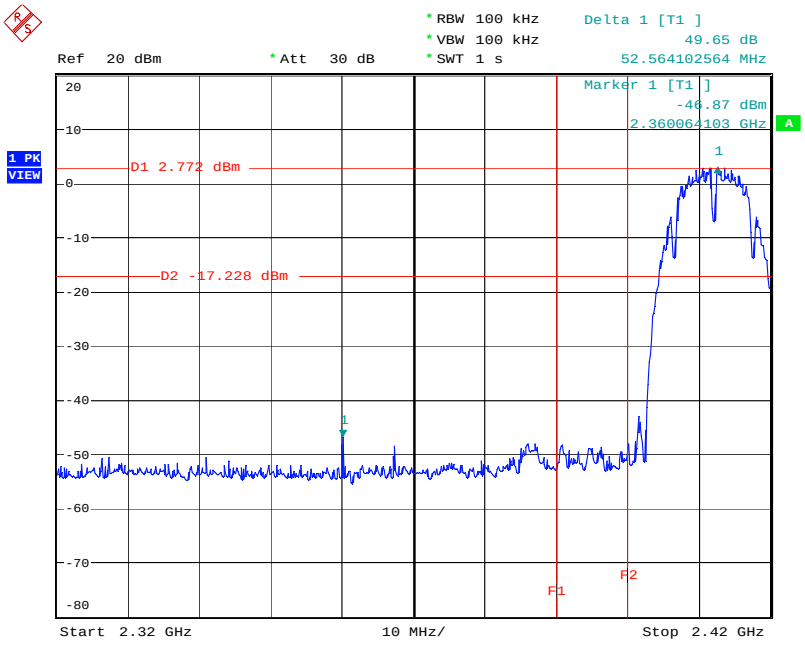
Note:

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

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

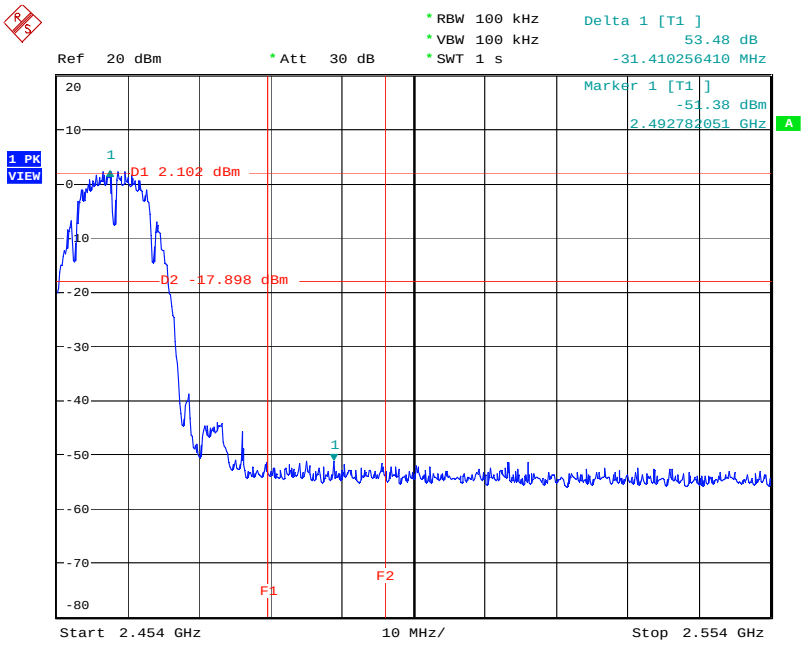
For Emission not in Restricted Band

Low Band Edge Plot on Configuration IEEE 802.11b 20MHz Ant. A / 2412 MHz



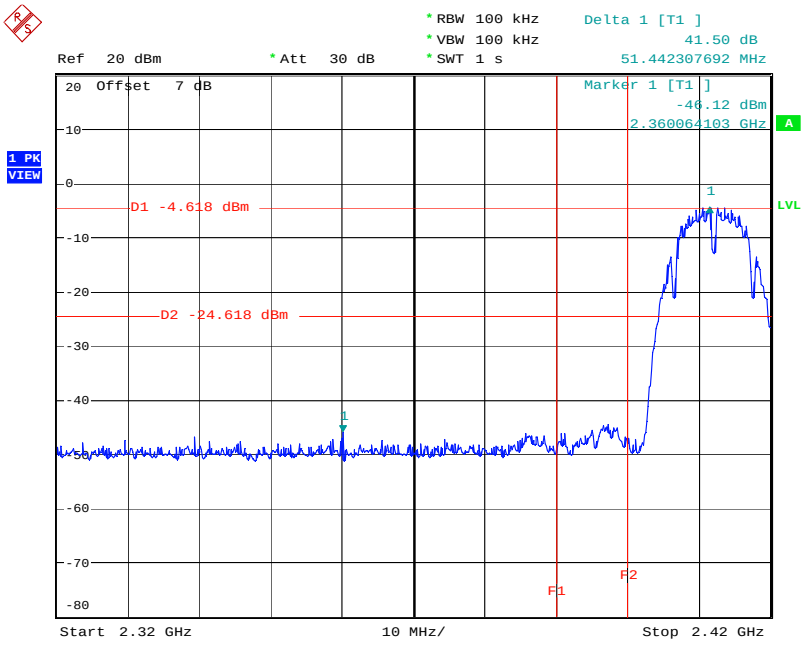
Date: 22.JAN.2007 17:56:37

High Band Edge Plot on Configuration IEEE 802.11b 20MHz Ant. A / 2462 MHz



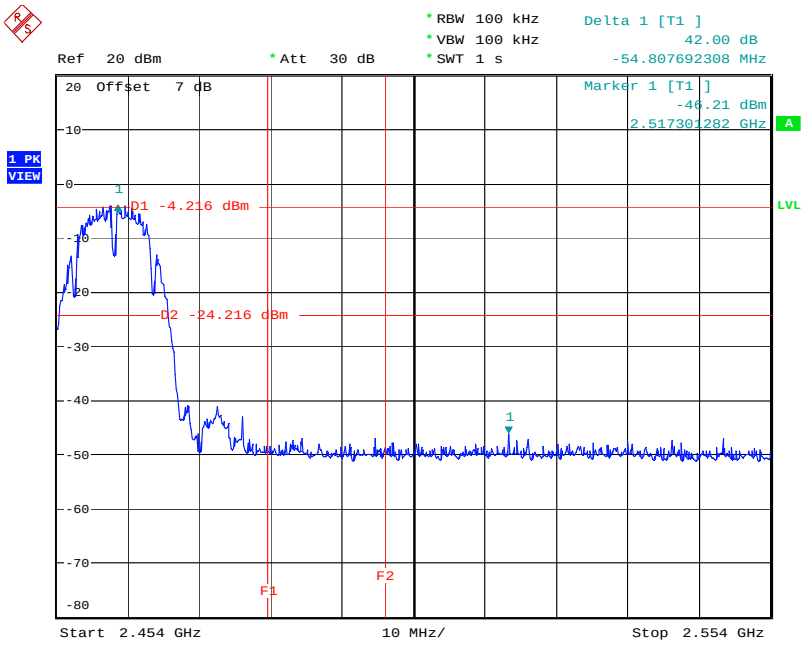
Date: 22.JAN.2007 18:00:14

Low Band Edge Plot on Configuration IEEE 802.11b 20MHz Ant. A + Ant. B / 2412 MHz



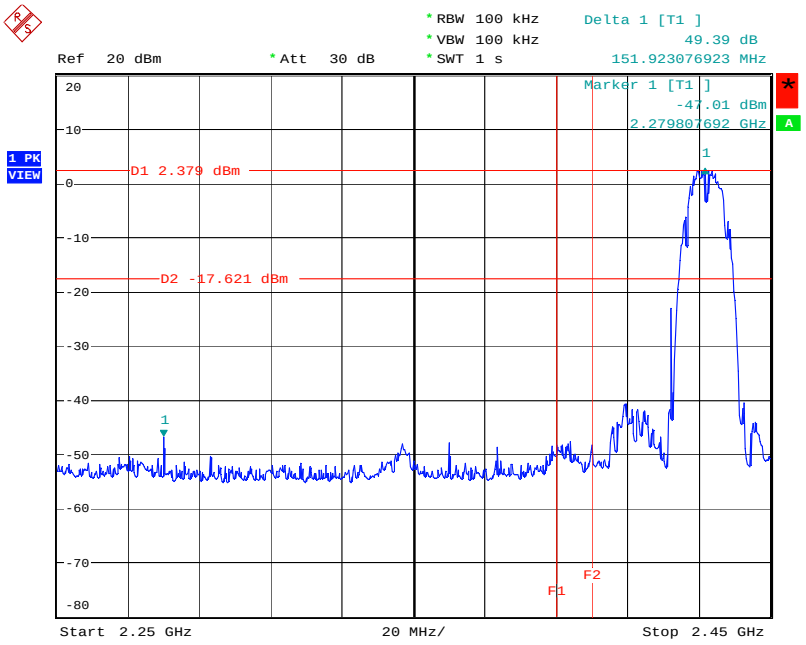
Date: 22.JAN.2007 15:03:43

High Band Edge Plot on Configuration IEEE 802.11b 20MHz Ant. A + Ant. B / 2462 MHz



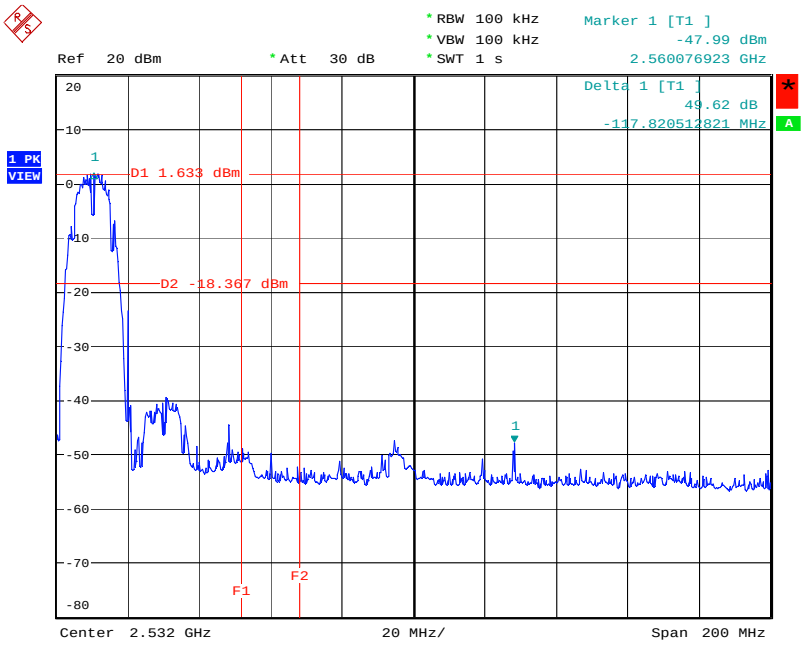
Date: 22.JAN.2007 15:07:08

Low Band Edge Plot on Configuration IEEE 802.11b 40MHz Ant. A / 2422 MHz (Upper)



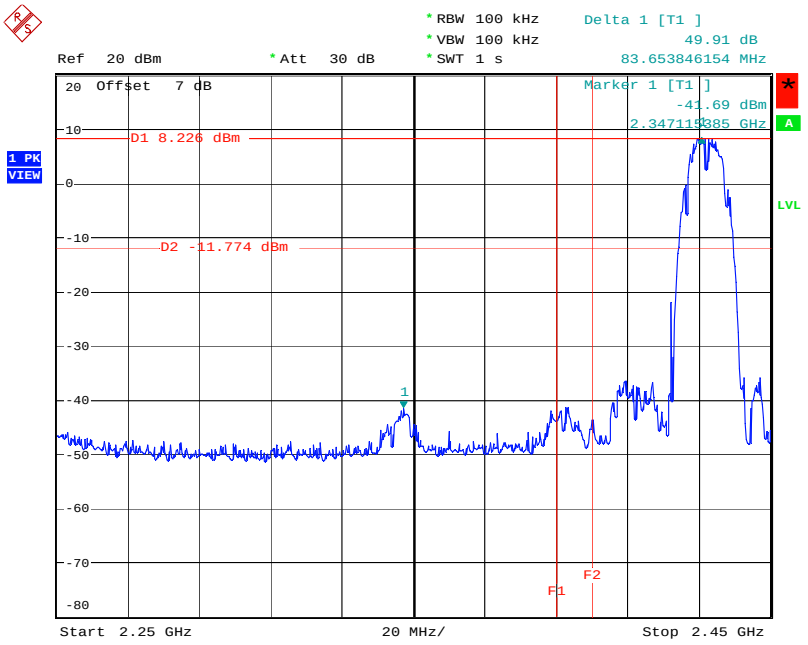
Date: 22.JAN.2007 18:37:27

High Band Edge Plot on Configuration IEEE 802.11b 40MHz Ant. A / 2452 MHz (Lower)



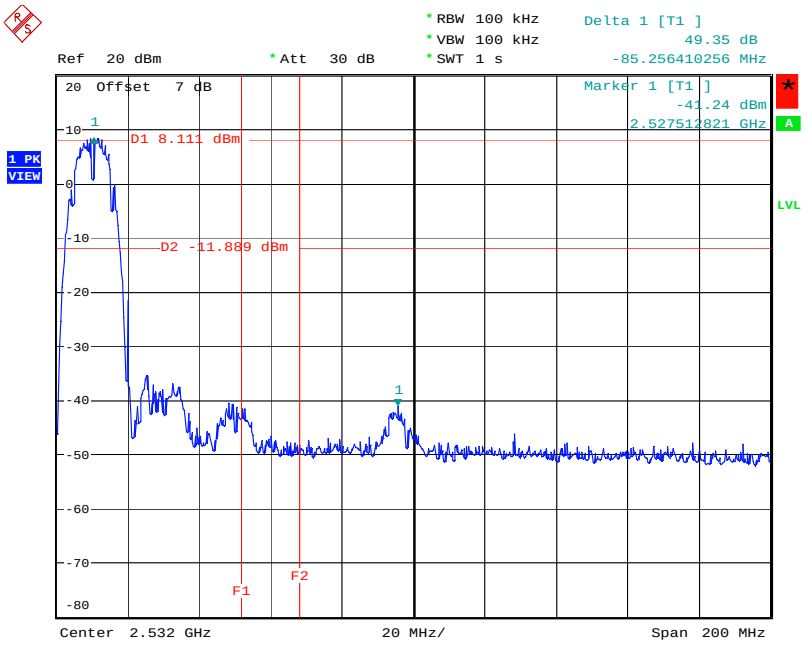
Date: 22.JAN.2007 18:42:17

Low Band Edge Plot on Configuration IEEE 802.11b 40MHz Ant. A + Ant. B / 2422 MHz (Upper)



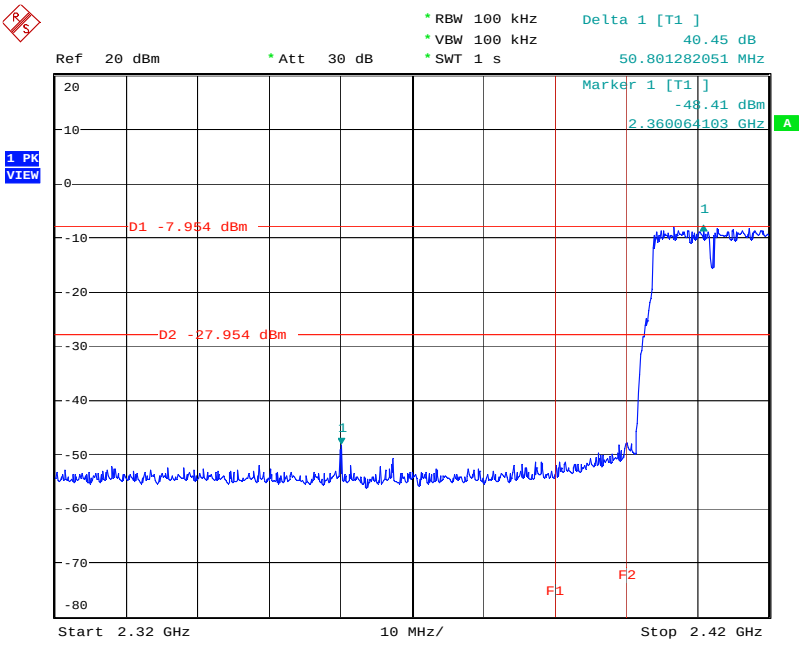
Date: 22.JAN.2007 16:27:37

High Band Edge Plot on Configuration IEEE 802.11b 40MHz Ant. A + Ant. B / 2452 MHz (Lower)



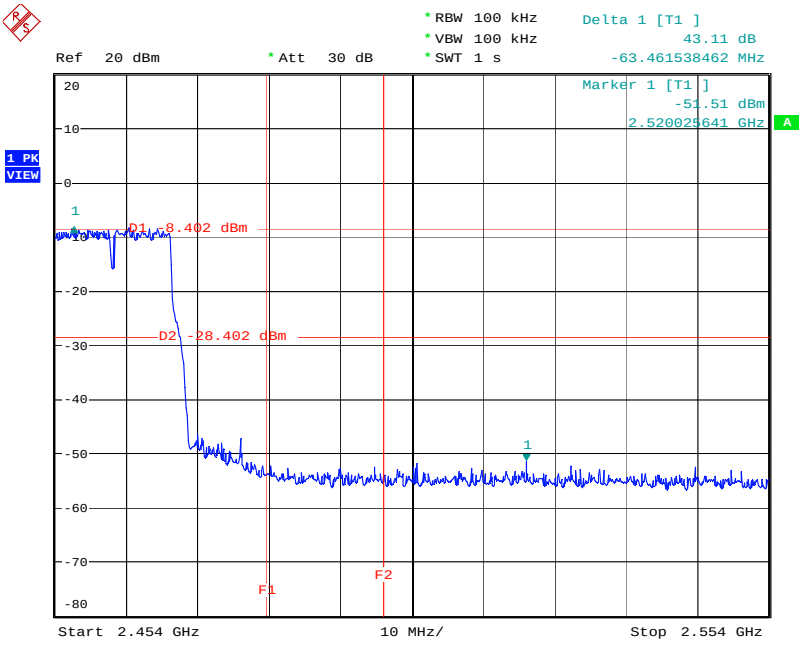
Date: 22.JAN.2007 16:33:03

Low Band Edge Plot on Configuration IEEE 802.11g 20MHz Ant. A / 2412 MHz



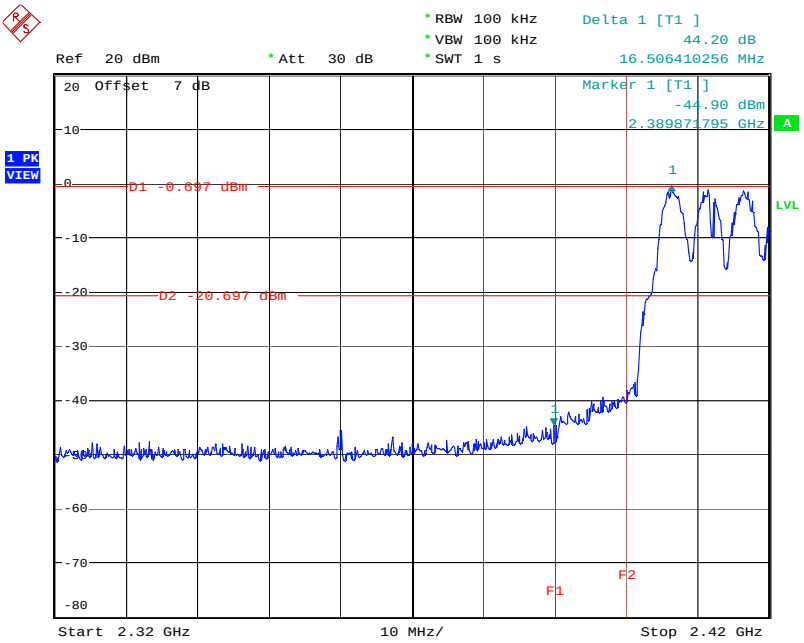
Date: 22.JAN.2007 18:04:57

High Band Edge Plot on Configuration IEEE 802.11g 20MHz Ant. A / 2462 MHz



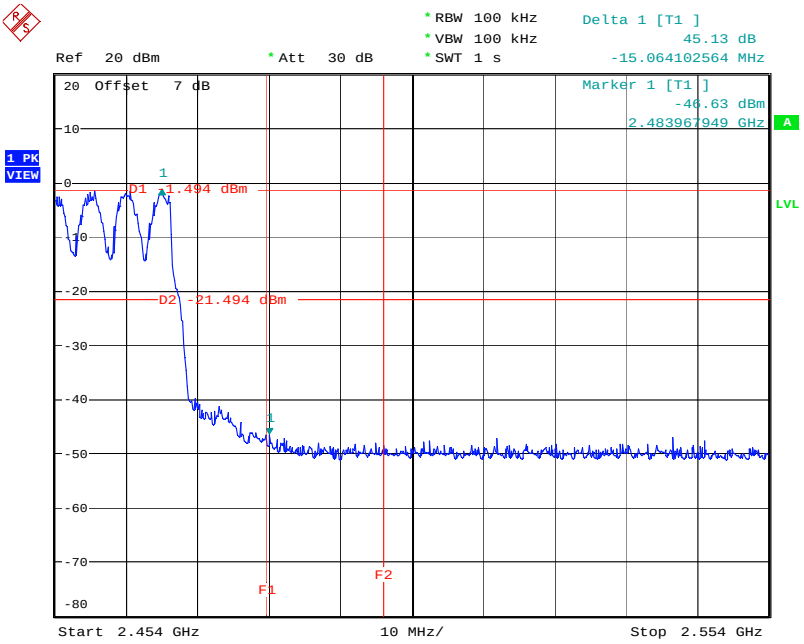
Date: 22.JAN.2007 18:02:32

Low Band Edge Plot on Configuration IEEE 802.11g 20MHz Ant. A + Ant. B / 2412 MHz



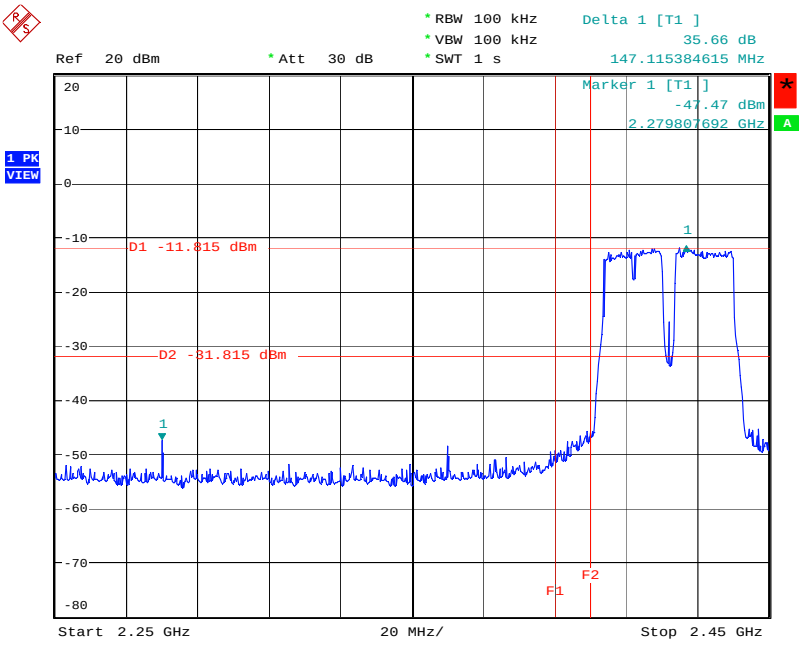
Date: 22.JAN.2007 15:19:40

High Band Edge Plot on Configuration IEEE 802.11g 20MHz Ant. A + Ant. B / 2462 MHz



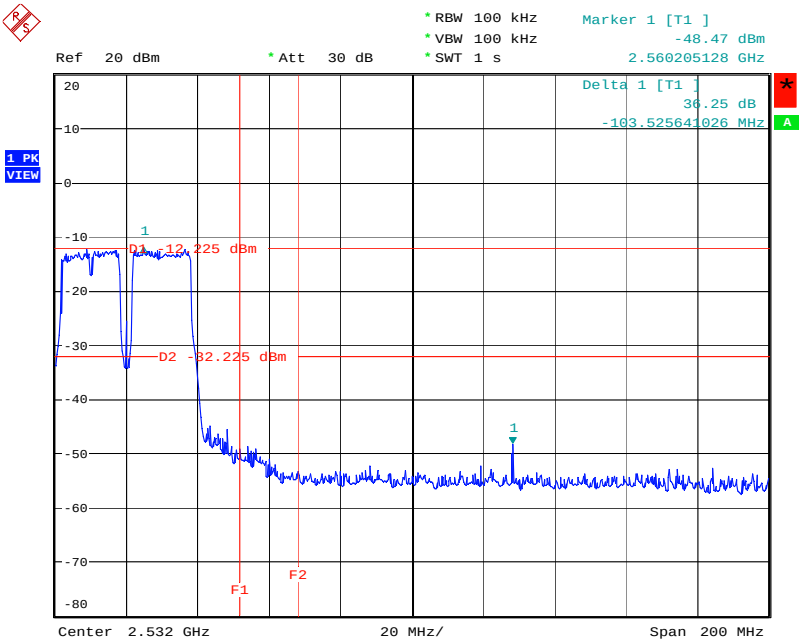
Date: 22.JAN.2007 15:21:56

Low Band Edge Plot on Configuration IEEE 802.11g 40MHz Ant. A / 2422 MHz



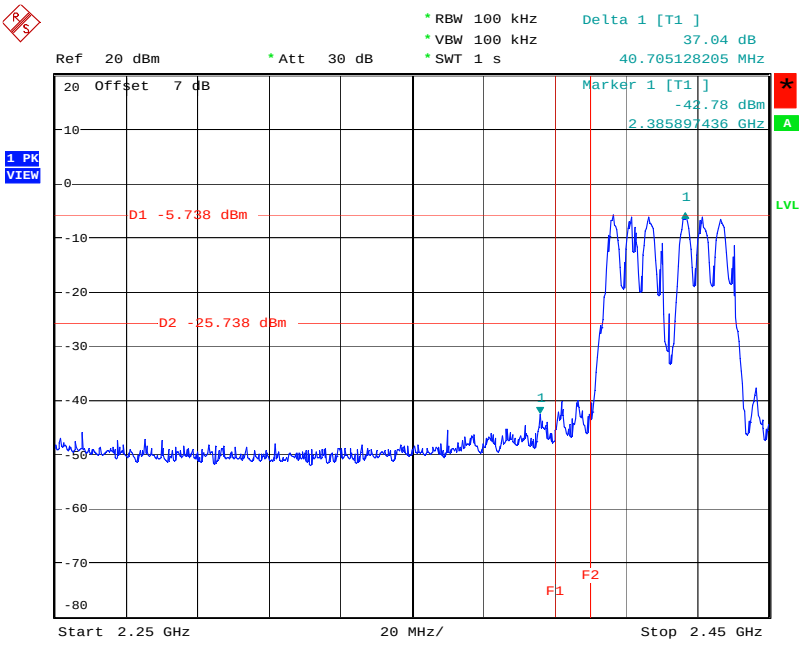
Date: 22.JAN.2007 18:35:42

High Band Edge Plot on Configuration IEEE 802.11g 40MHz Ant. A / 2452 MHz



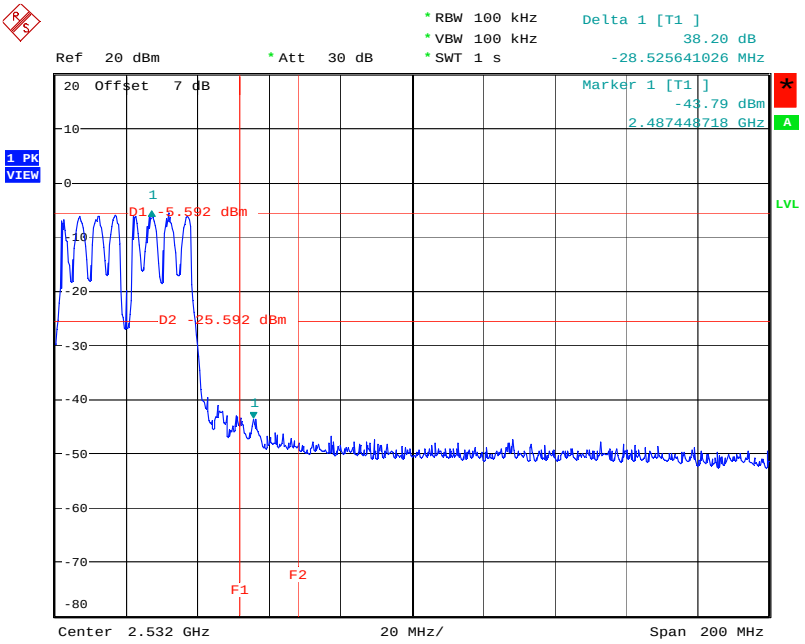
Date: 22.JAN.2007 18:33:07

Low Band Edge Plot on Configuration IEEE 802.11g 40MHz Ant. A + Ant. B / 2422 MHz



Date: 22.JAN.2007 16:01:43

High Band Edge Plot on Configuration IEEE 802.11g 40MHz Ant. A + Ant. B / 2452 MHz



Date: 22.JAN.2007 16:06:41

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	Feb. 21, 2006	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 28, 2006	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 17, 2006	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2006	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 27, 2006	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. 15, 2006	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	3565	9 kHz - 2 GHz	Mar. 14, 2006	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	May 29, 2006	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 24, 2006*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004/040	9 kHz - 40 GHz	Sep. 21, 2006	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2006*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 24, 2006	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 27, 2006	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	NCR	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 02, 2006	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 02, 2006	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	Nov. 26, 2006	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100764	DC ~ 40GHz	Jul. 20, 2006	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100666	DC ~ 40GHz	Jul. 20, 2006	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 10, 2006	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Apr. 21, 2005*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Dec. 28, 2006	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 02, 2006	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 1, 2006	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 1, 2006	Conducted (TH01-HY)
Oscilloscope	Tektronix	TDS1012	CO38515	100MHz / 1GS/s	Jun. 20, 2006	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Dec. 30, 2006	Conducted (TH01-HY)
Data Generator	Tektronix	DG2030	063-2920-50	0.1Hz~400MHz	Jun. 16, 2006	Conducted (TH01-HY)

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

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

Note: NCR means Non-Calibration required.

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. : L1190-070110

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
Specific Accreditation Program	:	Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory

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

P1, total 9 pages

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