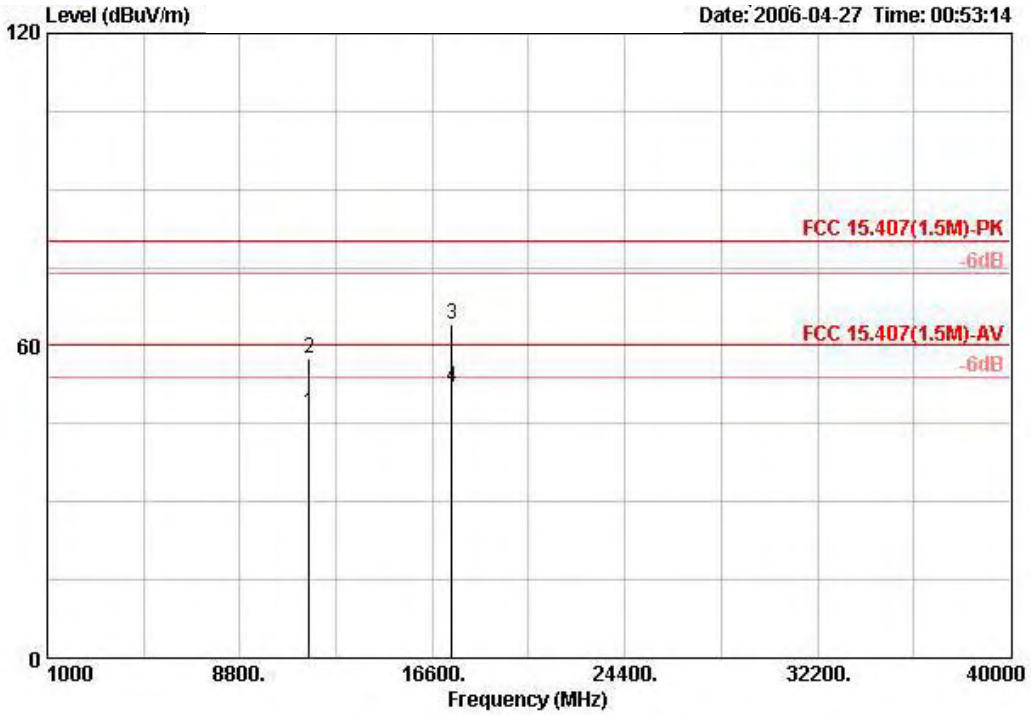
Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1	11603.140	46.99	-13.01	60.00	35.46	38.87	7.67	35.01	AVERAGE	HORIZONTAL	3
2	11603.140	57.59	-22.41	80.00	46.06	38.87	7.67	35.01	PEAK	HORIZONTAL	3
3	17397.260	64.10	-15.90	80.00	46.92	43.30	8.86	34.97	PEAK	HORIZONTAL	3
4	17397.260	52.09	-7.91	60.00	34.90	43.30	8.86	34.97	AVERAGE	HORIZONTAL	3

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB 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 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 (other emission)	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 freqeuncy 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.

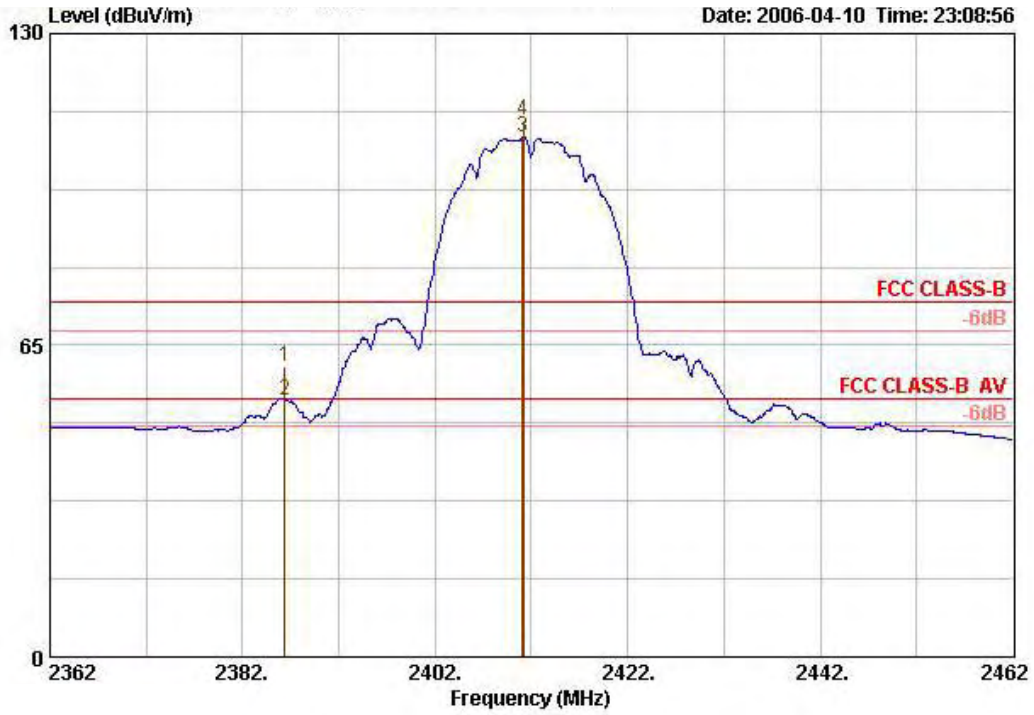
4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11b Channel 1, 11 / Ant. 1

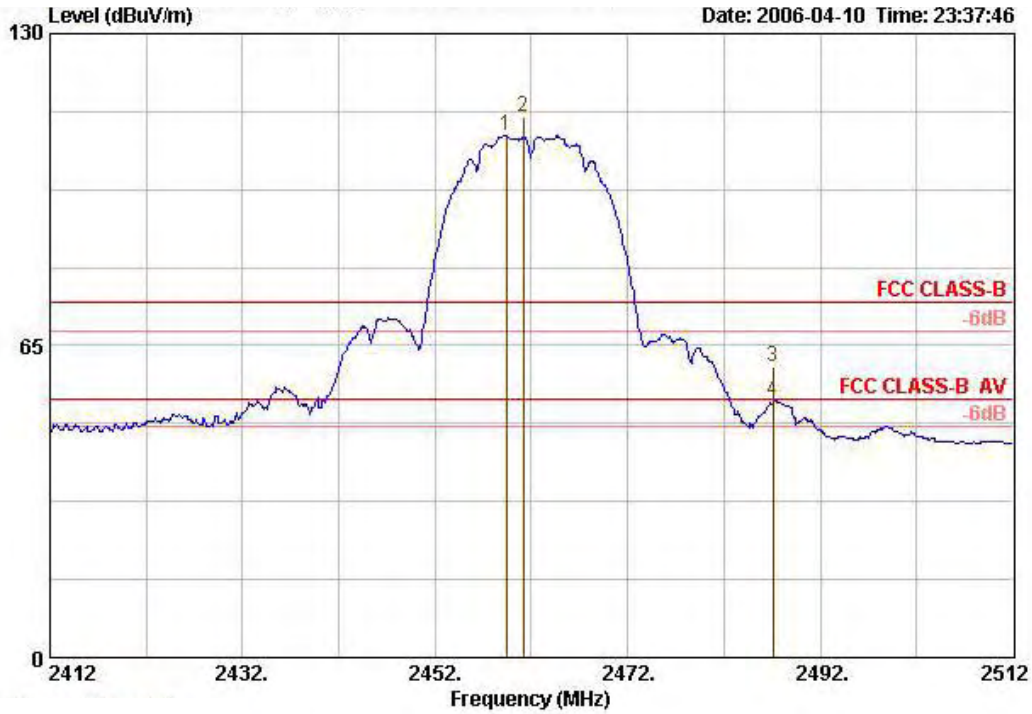
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2386.400	60.40	-13.60	74.00	28.13	2.58	0.00	29.69	PEAK	100	186
2 @	2386.400	53.34	-0.66	54.00	28.13	2.58	0.00	22.63	AVERAGE	100	186
3 @	2411.100	108.24			28.18	2.58	0.00	77.49	Average	---	---
4 @	2411.200	111.94			28.18	2.58	0.00	81.19	PEAK	100	186

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

Channel 11

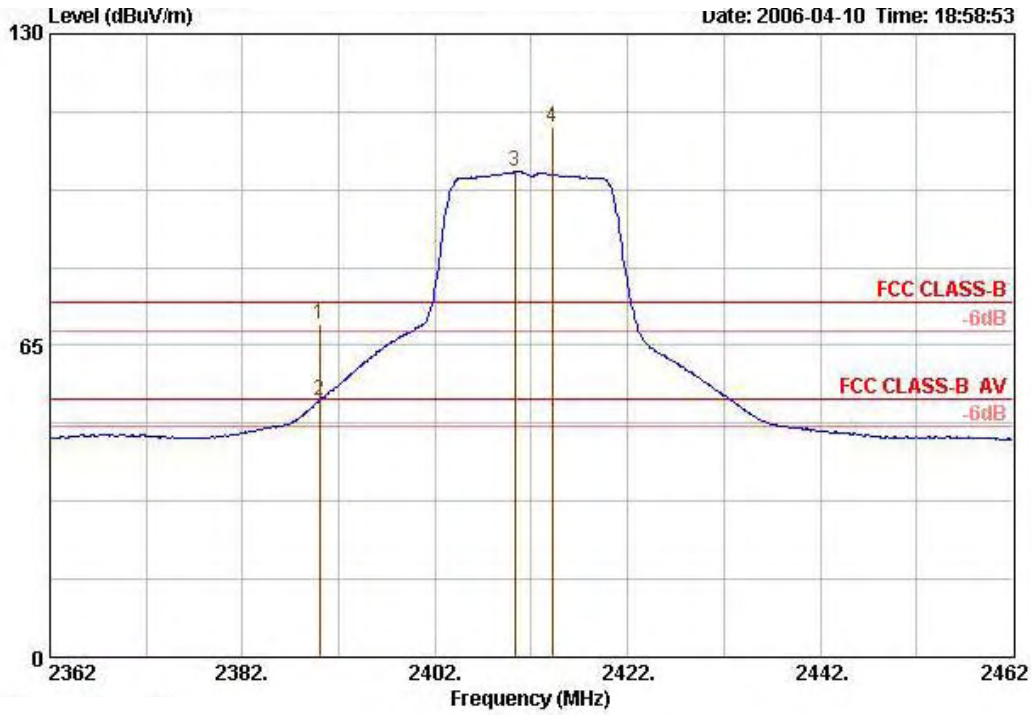


	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2459.400	108.68			28.31	2.60	0.00	77.77	Average	---	---
2 @	2461.200	112.69			28.31	2.60	0.00	81.78	PEAK	100	236
3 @	2487.100	60.67	-13.33	74.00	28.36	2.62	0.00	29.69	PEAK	100	236
4 @	2487.100	53.41	-0.59	54.00	28.36	2.62	0.00	22.43	Average	---	---

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

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11g Channel 1, 11 / Ant. 1

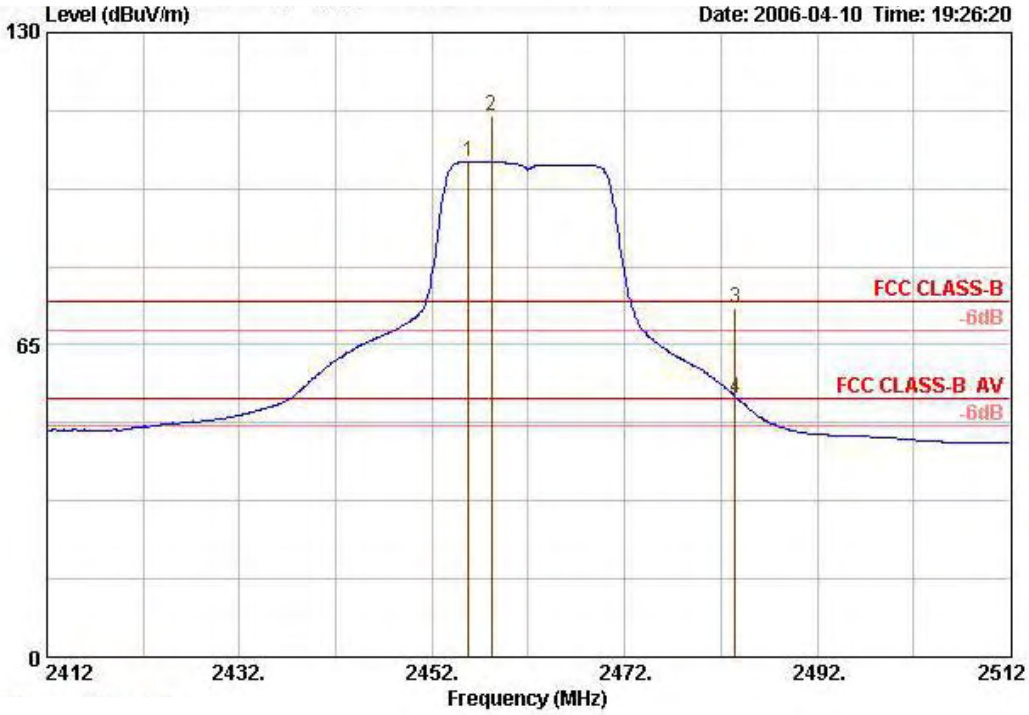
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2390.000	69.60	-4.40	74.00	28.13	2.58	0.00	38.89	PEAK	116	244
2	2390.000	53.39	-0.61	54.00	28.13	2.58	0.00	22.68	AVERAGE	116	244
3 @	2410.300	101.22			28.18	2.58	0.00	70.47	Average	---	---
4 @	2414.200	110.64			28.18	2.58	0.00	79.89	PEAK	116	244

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

Channel 11



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2455.800	103.23			28.31	2.60	0.00	72.33	Average	---	---
2 @	2458.200	112.69			28.31	2.60	0.00	81.78	PEAK	109	248
3 @	2483.500	72.76	-1.24	74.00	28.36	2.62	0.00	41.79	PEAK	109	248
4 @	2483.500	53.86	-0.14	54.00	28.36	2.62	0.00	22.88	AVERAGE	109	248

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

Note:

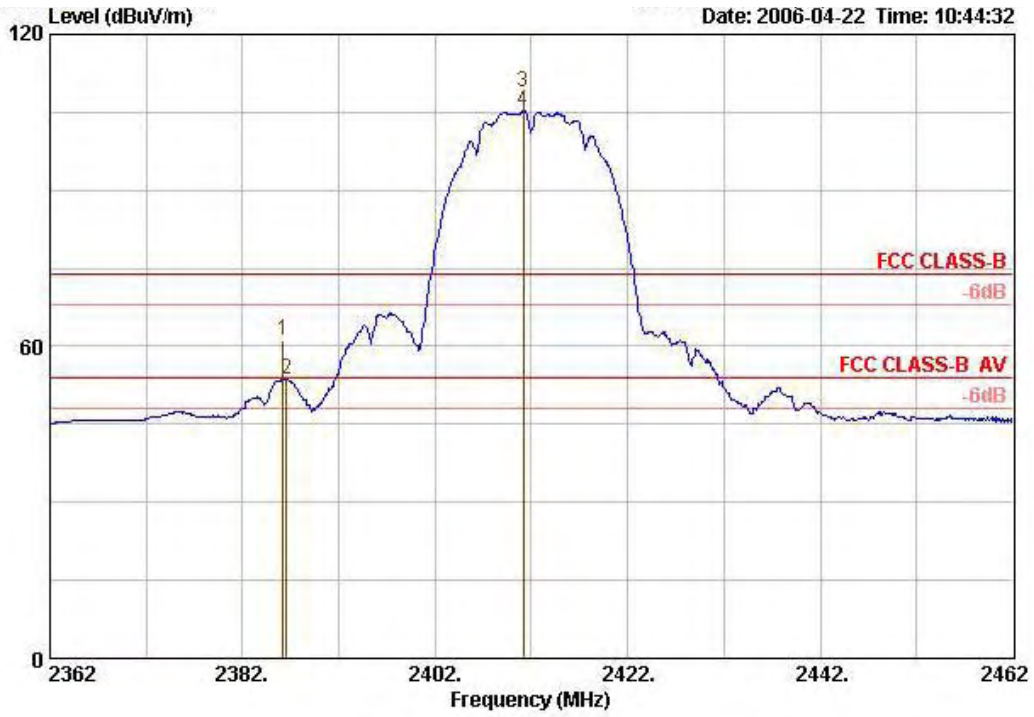
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Receiving maximum band edge emissions are Vertical Polarization.

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11b Channel 1, 11 / Ant. 2

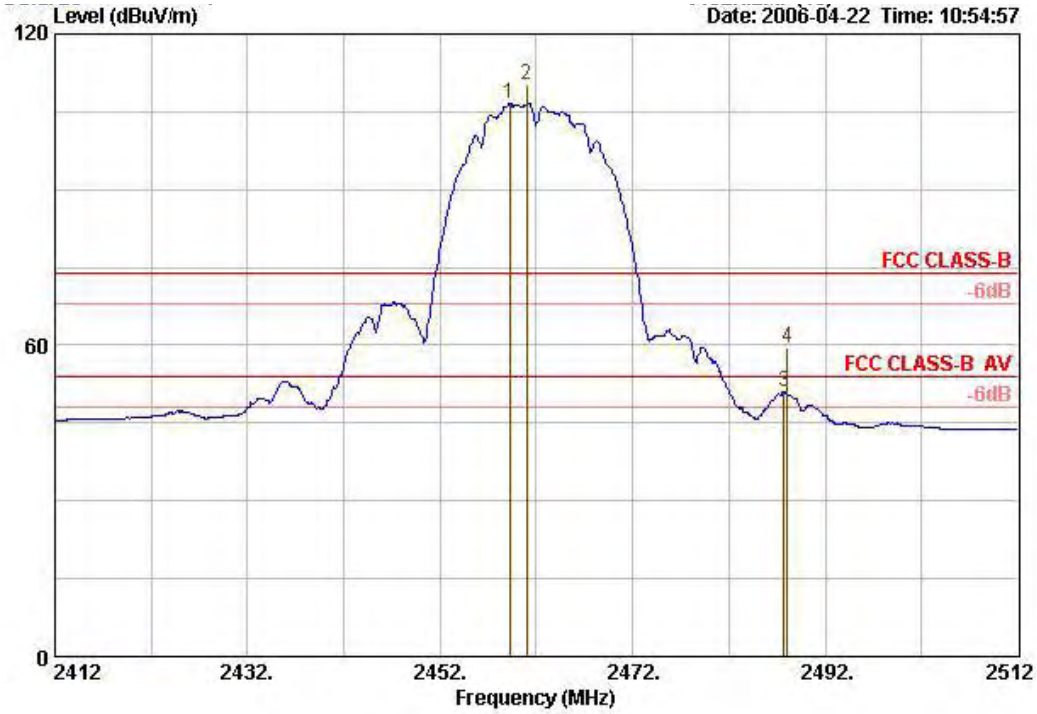
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2386.200	61.17	-12.83	74.00	28.13	2.58	0.00	30.47	PEAK	134	332
2 !	2386.600	53.70	-0.30	54.00	28.13	2.58	0.00	23.00	AVERAGE	134	332
3	2411.200	108.94			28.18	2.58	0.00	78.19	PEAK	134	332
4	2411.200	105.16			28.18	2.58	0.00	74.40	AVERAGE	134	332

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

Channel 11

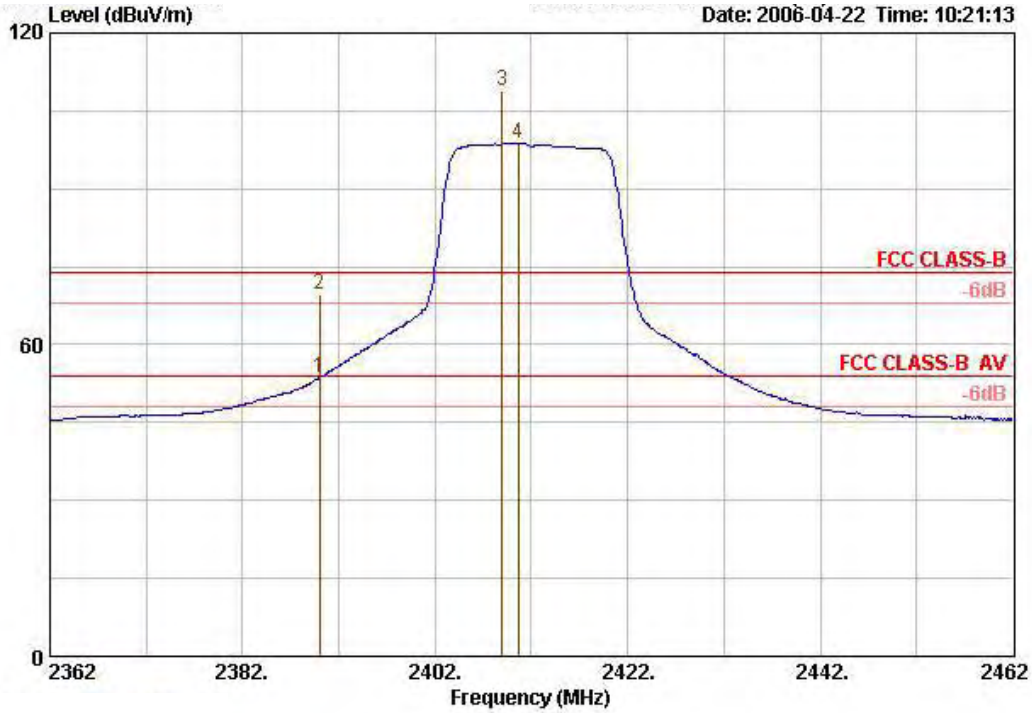


	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2459.200	106.48			28.31	2.60	0.00	75.57	AVERAGE	145	6
2	2461.000	110.26			28.31	2.60	0.00	79.35	PEAK	145	6
3 '	2487.700	50.97	-3.03	54.00	28.40	2.62	0.00	19.95	AVERAGE	145	6
4	2488.100	59.57	-14.43	74.00	28.40	2.62	0.00	28.55	PEAK	145	6

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

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11g Channel 1, 11 / Ant. 2

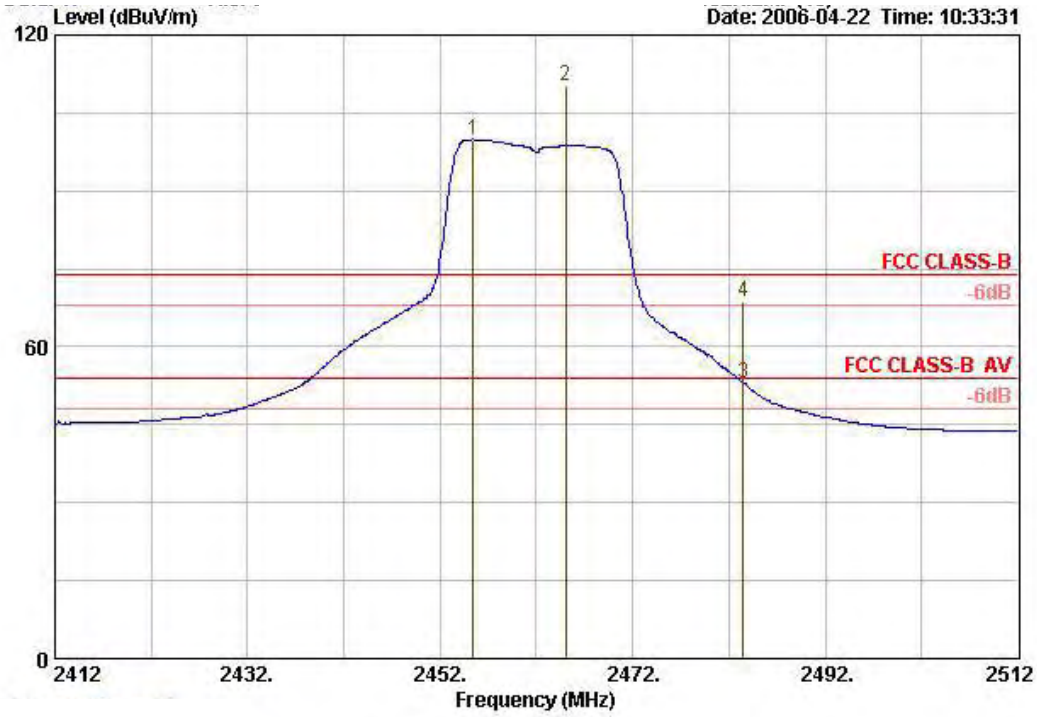
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 !	2390.000	53.55	-0.45	54.00	28.13	2.58	0.00	22.84	AVERAGE	100	338
2 !	2390.000	69.74	-4.26	74.00	28.13	2.58	0.00	39.04	PEAK	100	338
3	2409.000	108.99			28.18	2.58	0.00	78.23	PEAK	100	338
4	2410.600	98.71			28.18	2.58	0.00	67.96	AVERAGE	100	338

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

Channel 11



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2455.400	99.88			28.31	2.60	0.00	68.97	AVERAGE	100	339
2	2465.000	110.34			28.31	2.62	0.00	79.41	PEAK	100	339
3	2483.500	52.86	-1.14	54.00	28.36	2.62	0.00	21.88	AVERAGE	100	339
4	2483.500	68.55	-5.45	74.00	28.36	2.62	0.00	37.58	PEAK	100	339

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

Note:

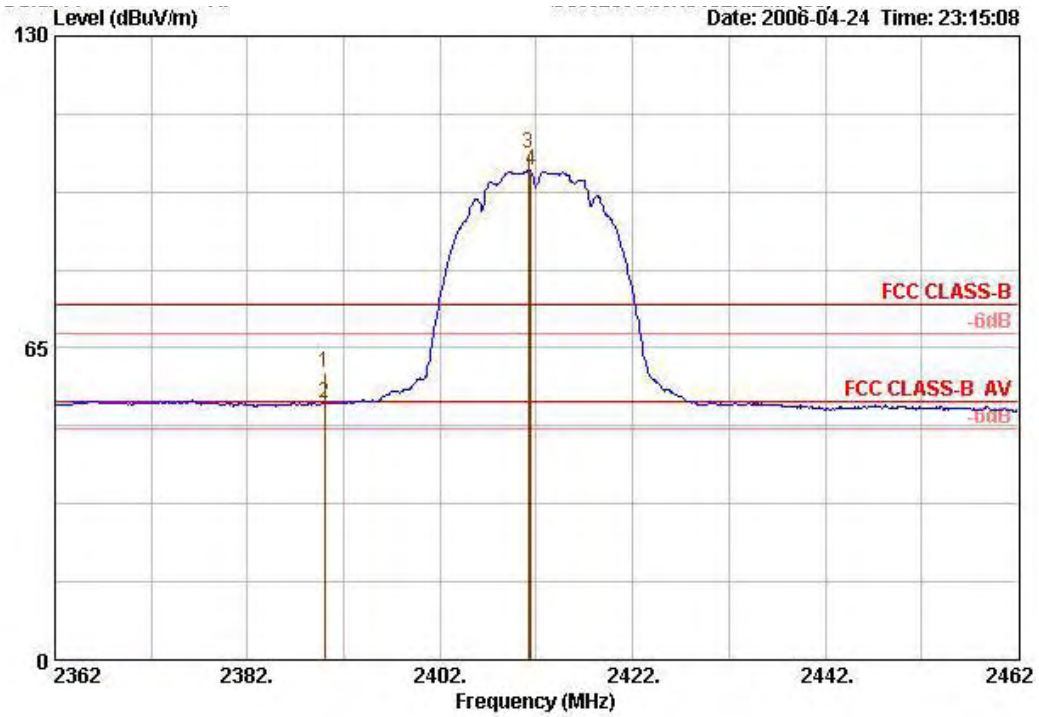
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Receiving maximum band edge emissions are Vertical Polarization.

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11b Channel 1, 11 / Ant. 3

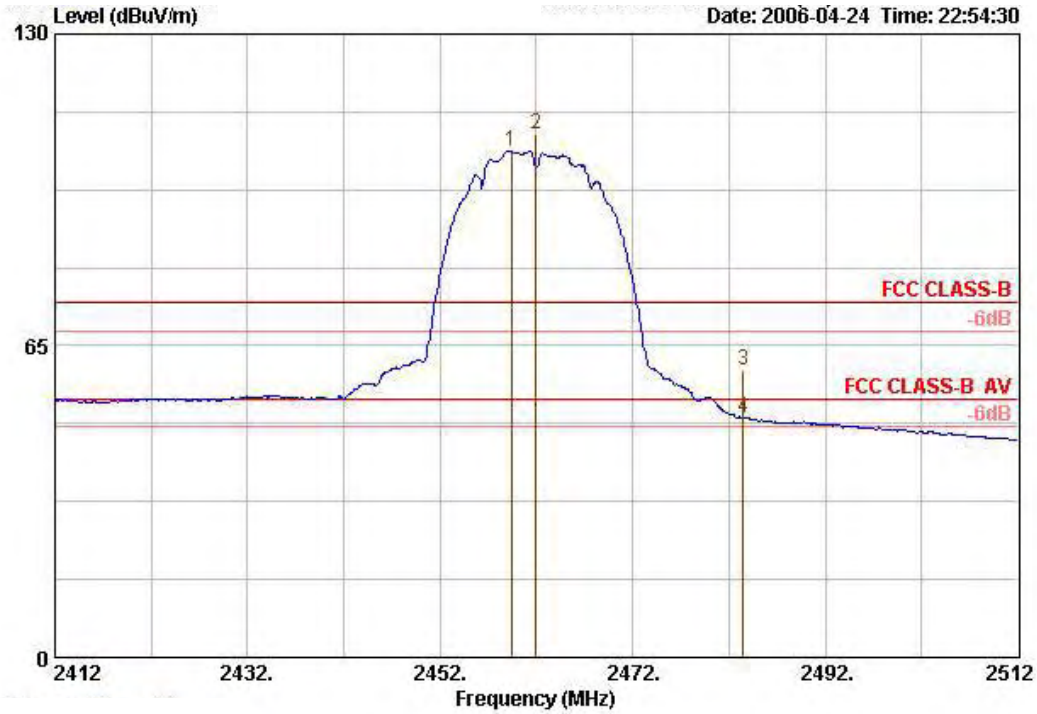
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2390.000	60.00	-14.00	74.00	28.13	2.58	0.00	29.30	PEAK	100	0
2 !	2390.000	53.43	-0.57	54.00	28.13	2.58	0.00	22.72	AVERAGE	100	0
3 @	2411.200	105.62			28.18	2.58	0.00	74.87	PEAK	100	0
4 @	2411.400	101.90			28.18	2.58	0.00	71.15	Average	---	---

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

Channel 11

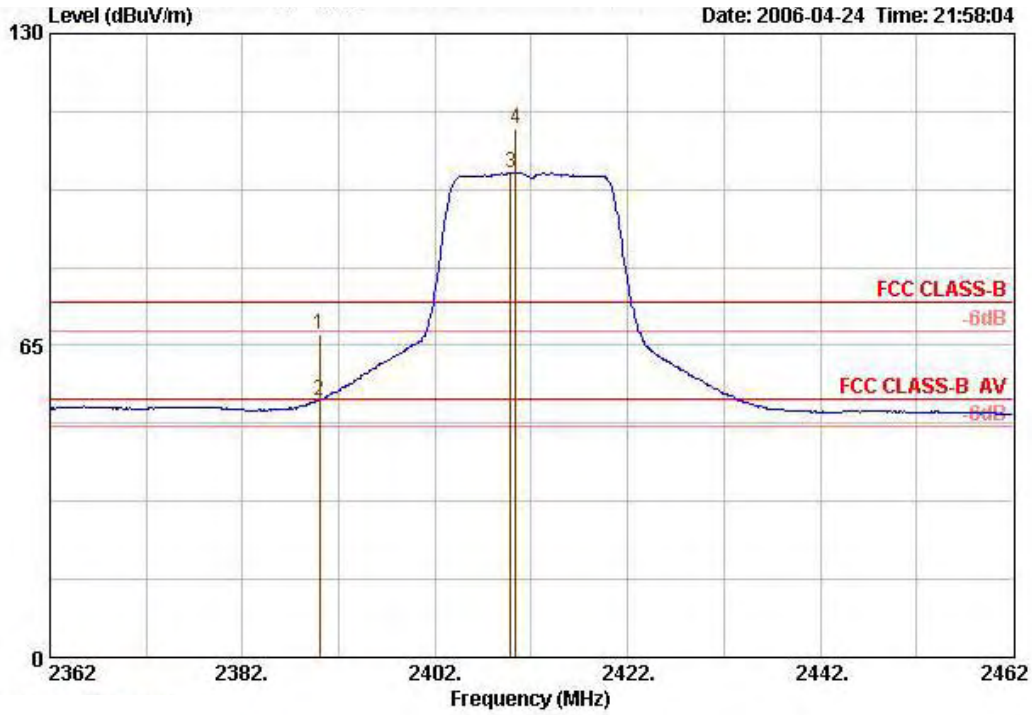


	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2459.400	105.54			28.31	2.60	0.00	74.63	Average	---	---
2 @	2462.000	109.18			28.31	2.60	0.00	78.27	PEAK	100	0
3	2483.500	59.87	-14.13	74.00	28.36	2.62	0.00	28.89	PEAK	100	0
4 !	2483.500	49.88	-4.12	54.00	28.36	2.62	0.00	18.90	AVERAGE	100	0

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

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11g Channel 1, 11 / Ant. 3

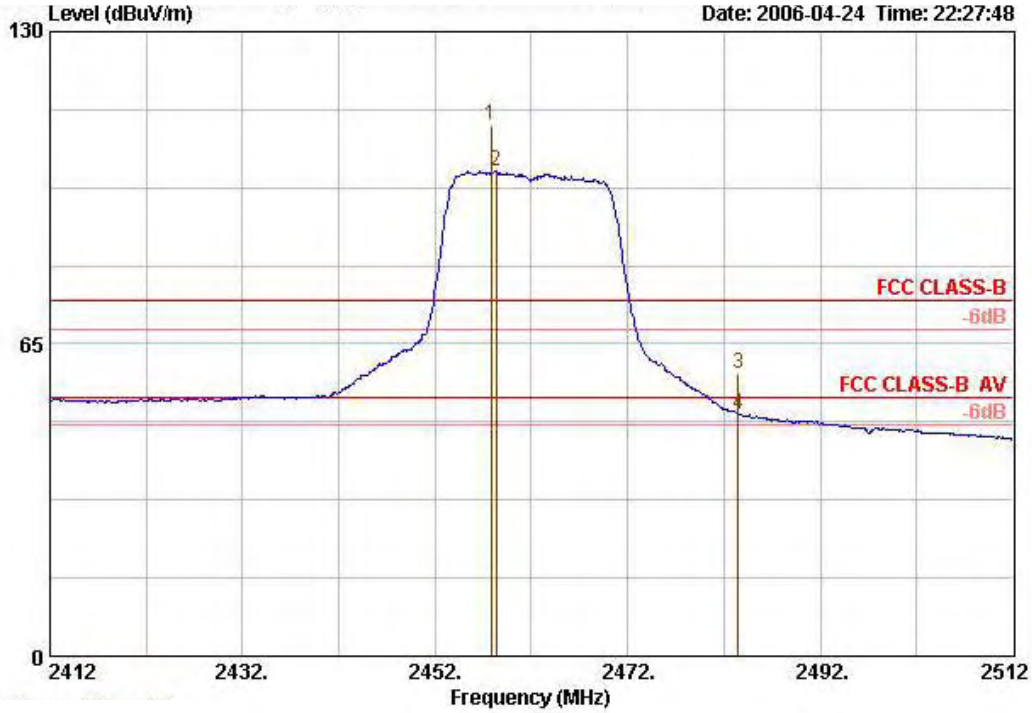
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2390.000	67.42	-6.58	74.00	28.13	2.58	0.00	36.71	PEAK	100	0
2 !	2390.000	53.62	-0.38	54.00	28.13	2.58	0.00	22.91	AVERAGE	100	0
3 @	2409.800	100.94			28.18	2.58	0.00	70.19	Average	---	---
4 @	2410.400	110.13			28.18	2.58	0.00	79.38	PEAK	100	0

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

Channel 11



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2457.800	110.51			28.31	2.60	0.00	79.60	PEAK	100	0
2 @	2458.300	101.06			28.31	2.60	0.00	70.15	Average	---	---
3	2483.500	58.90	-15.10	74.00	28.36	2.62	0.00	27.93	PEAK	100	0
4 !	2483.500	50.19	-3.81	54.00	28.36	2.62	0.00	19.21	AVERAGE	100	0

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

Note:

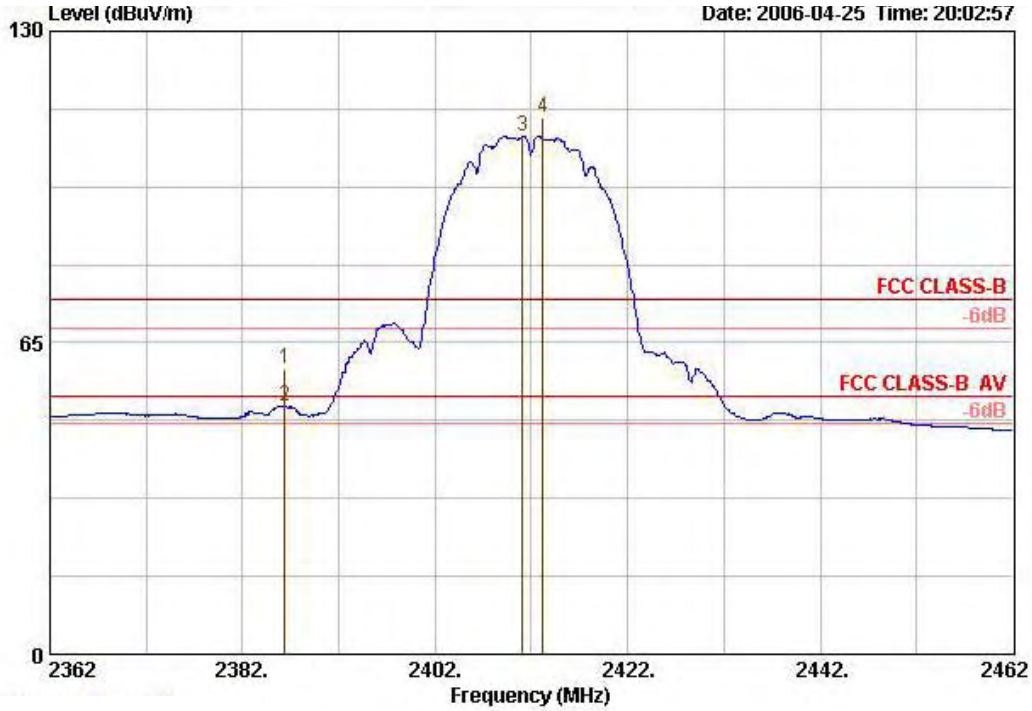
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Receiving maximum band edge emissions are Vertical Polarization.

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11b Channel 1, 11 / Ant. 4

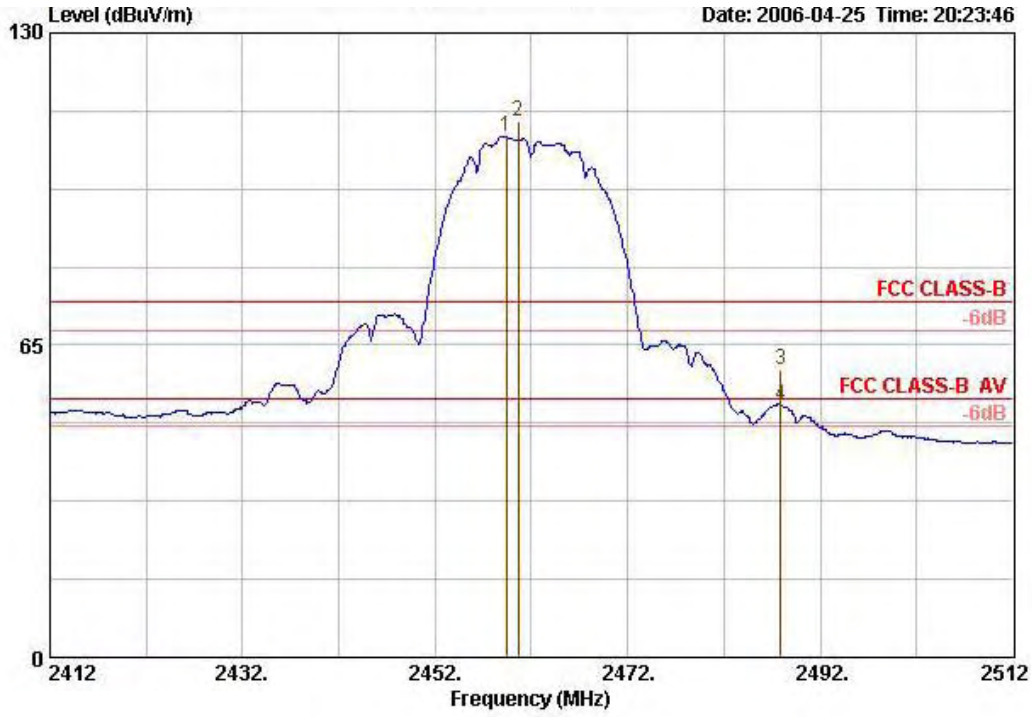
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2386.400	59.54	-14.46	74.00	28.13	2.58	0.00	28.83	PEAK	100	199
2 !	2386.400	51.67	-2.33	54.00	28.13	2.58	0.00	20.96	AVERAGE	100	199
3 @	2411.100	108.16			28.18	2.58	0.00	77.41	Average	---	---
4 @	2413.200	111.98			28.18	2.58	0.00	81.22	PEAK	100	199

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

Channel 11

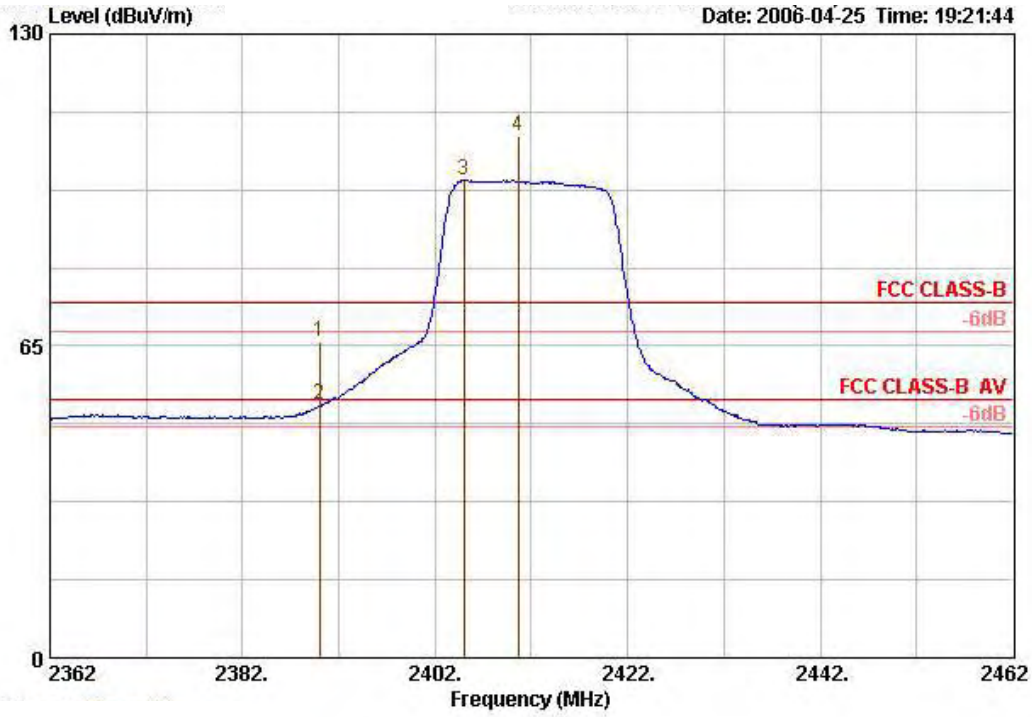


	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2459.400	108.53			28.31	2.60	0.00	77.62	Average	---	---
2 @	2460.600	111.70			28.31	2.60	0.00	80.80	PEAK	100	211
3	2487.900	59.77	-14.23	74.00	28.40	2.62	0.00	28.75	PEAK	100	211
4 !	2487.900	52.34	-1.66	54.00	28.40	2.62	0.00	21.32	AVERAGE	100	211

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

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11g Channel 1, 11 / Ant. 4

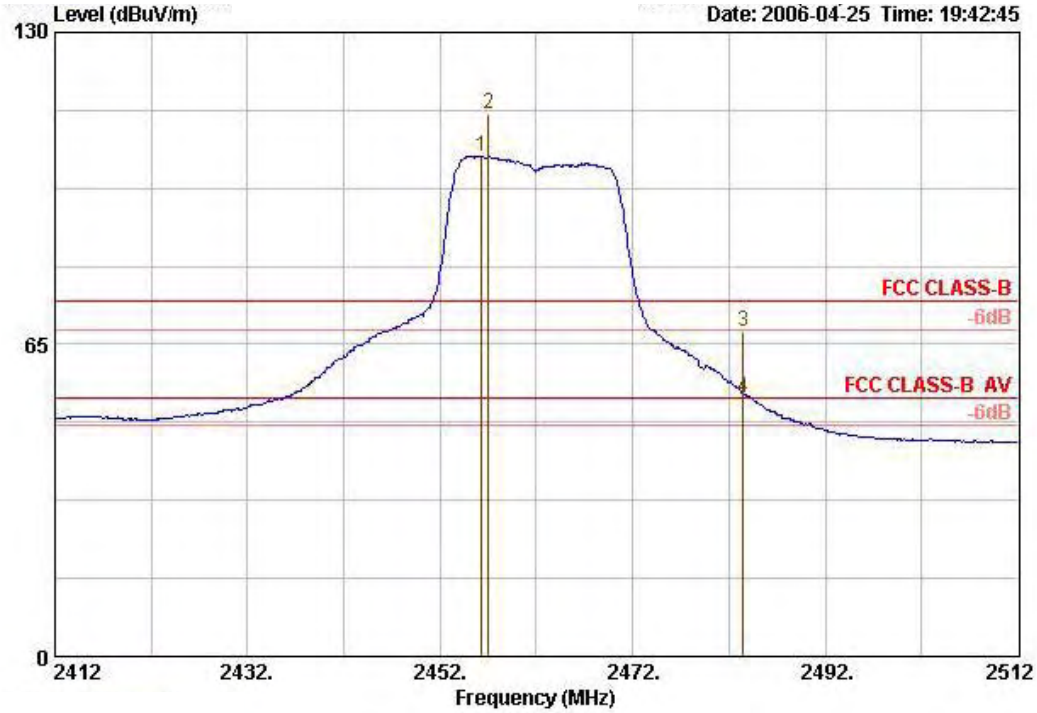
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2390.000	65.91	-8.09	74.00	28.13	2.58	0.00	35.20	PEAK	100	340
2 !	2390.000	52.95	-1.05	54.00	28.13	2.58	0.00	22.24	AVERAGE	100	340
3 @	2405.000	99.63			28.18	2.58	0.00	68.87	Average	---	---
4 @	2410.600	108.57			28.18	2.58	0.00	77.82	PEAK	100	340

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

Channel 11



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2456.300	104.24			28.31	2.60	0.00	73.33	Average	---	---
2 @	2457.000	112.95			28.31	2.60	0.00	82.04	PEAK	101	331
3	2483.500	67.50	-6.50	74.00	28.36	2.62	0.00	36.53	PEAK	101	331
4 !	2483.500	53.85	-0.15	54.00	28.36	2.62	0.00	22.88	AVERAGE	101	331

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

Note:

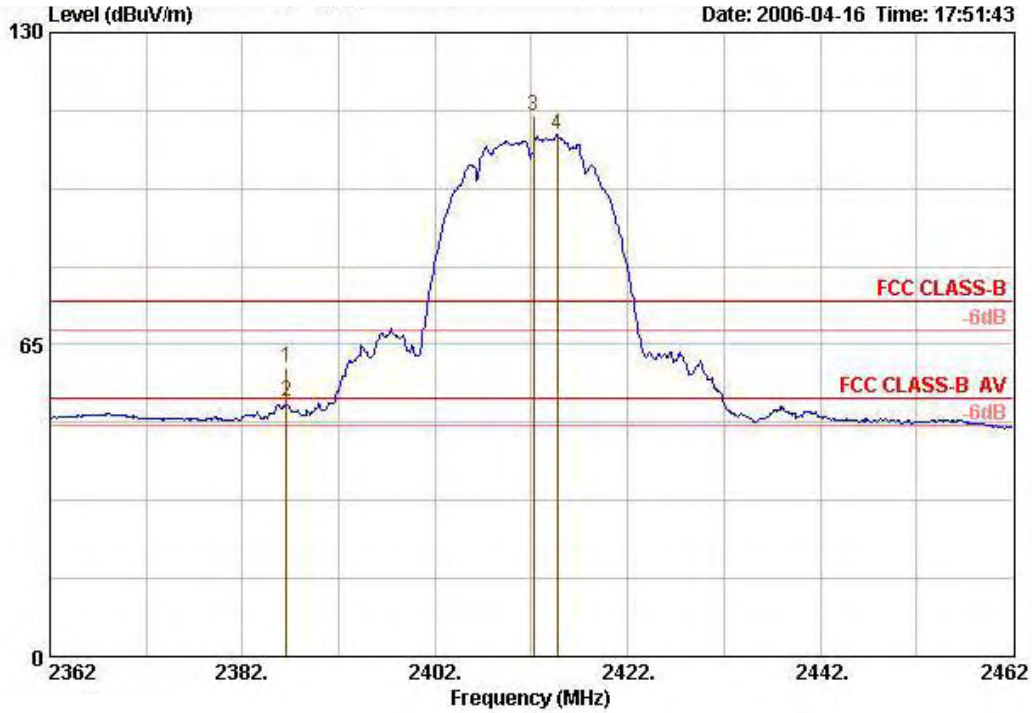
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Receiving maximum band edge emissions are Vertical Polarization.

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11b Channel 1, 11 / Ant. 5

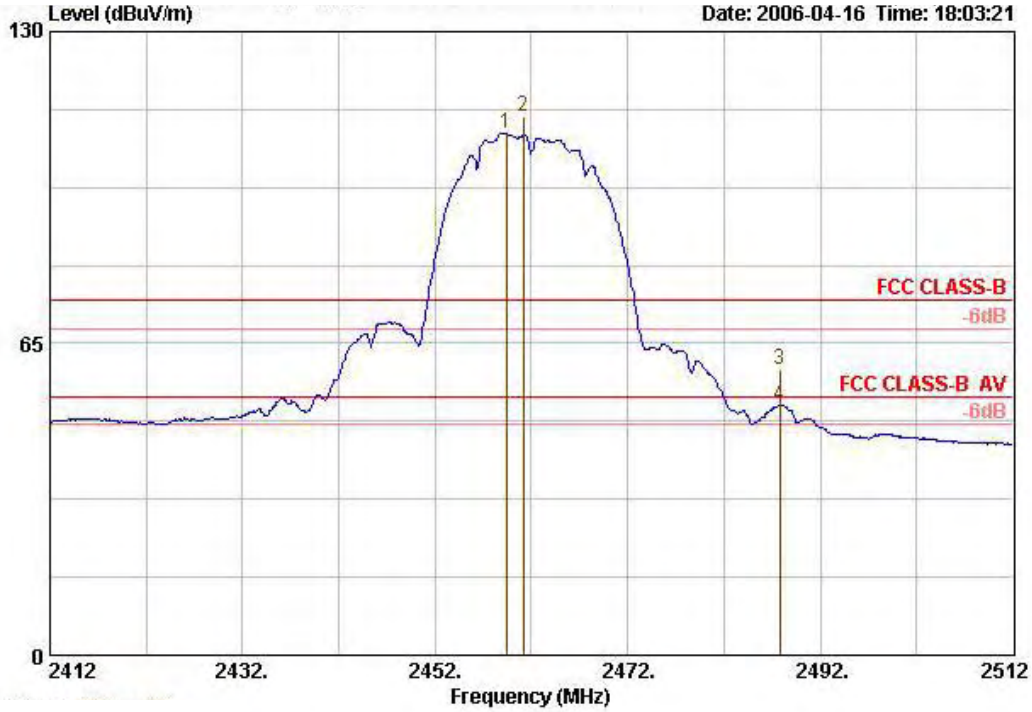
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2386.600	60.26	-13.74	74.00	28.13	2.58	0.00	29.55	PEAK	100	8
2 !	2386.600	53.06	-0.94	54.00	28.13	2.58	0.00	22.35	AVERAGE	100	8
3	2412.200	112.79			28.18	2.58	0.00	82.03	PEAK	100	8
4 @	2414.700	108.86			28.18	2.58	0.00	78.11	Average	---	---

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

Channel 11

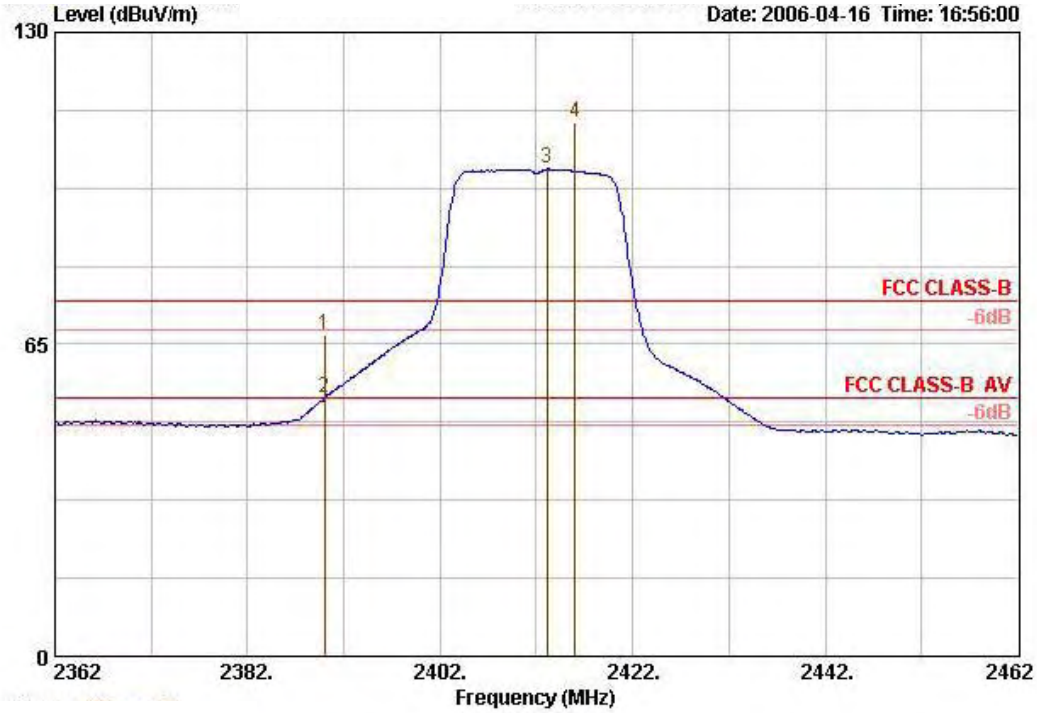


	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	2459.400	108.83			28.31	2.60	0.00	77.92	Average	---	---
2	2461.200	112.14			28.31	2.60	0.00	81.23	PEAK	100	7
3	2487.800	59.47	-14.53	74.00	28.40	2.62	0.00	28.45	PEAK	100	7
4 !	2487.800	52.02	-1.98	54.00	28.40	2.62	0.00	21.00	AVERAGE	100	7

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

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11g Channel 1, 11 / Ant. 5

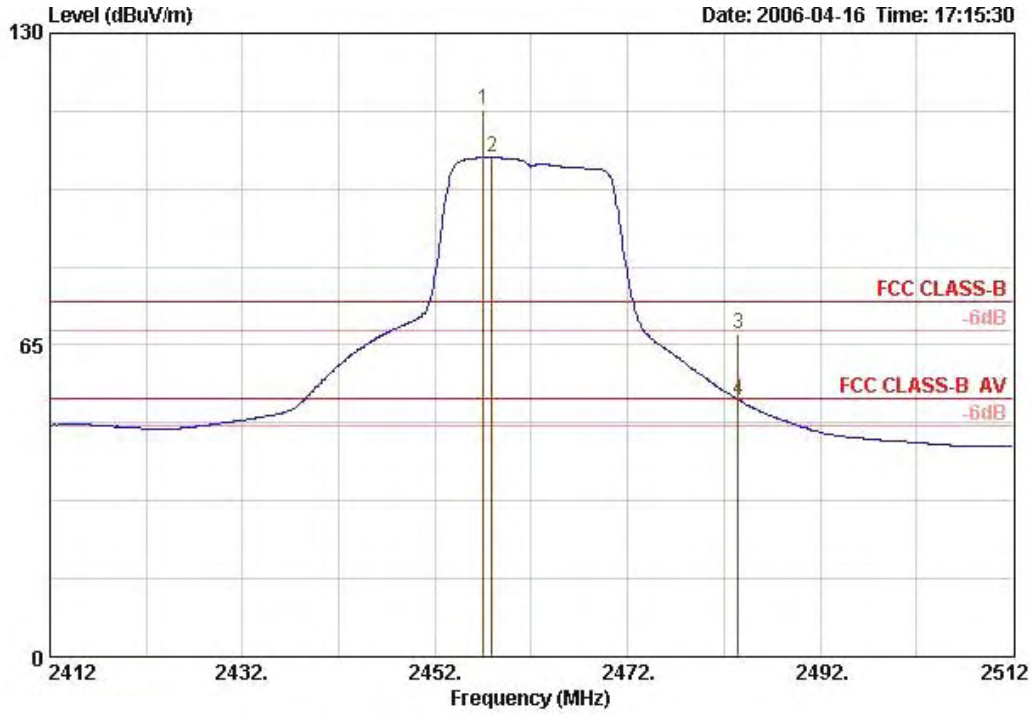
Channel 1



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2390.000	66.82	-7.18	74.00	28.13	2.58	0.00	36.12	PEAK	100	8
2 !	2390.000	53.67	-0.33	54.00	28.13	2.58	0.00	22.97	AVERAGE	100	8
3	2413.100	101.53			28.18	2.58	0.00	70.77	Average	---	---
4	2416.000	111.25			28.18	2.58	0.00	80.50	PEAK	100	8

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

Channel 11



	Freq	Level	Over Limit	Limit Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	2457.000	114.23			28.31	2.60	0.00	83.32	PEAK	100	7
2 @	2457.900	104.10			28.31	2.60	0.00	73.19	Average	---	---
3	2483.500	67.43	-6.57	74.00	28.36	2.62	0.00	36.45	PEAK	100	7
4 !	2483.500	53.55	-0.45	54.00	28.36	2.62	0.00	22.58	AVERAGE	100	7

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

Note:

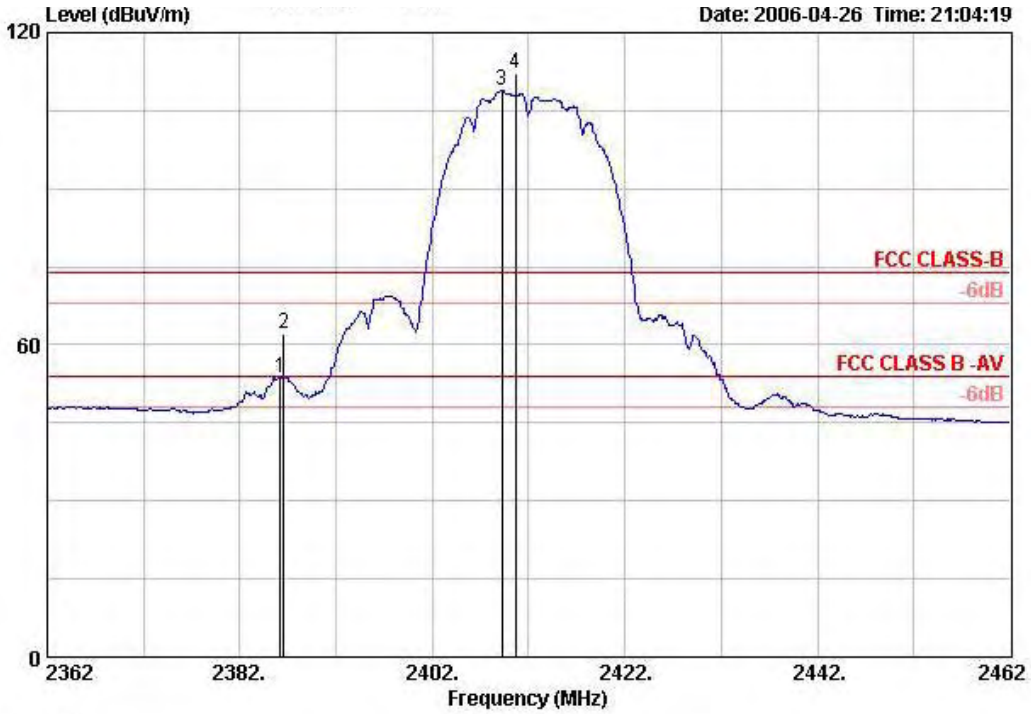
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Receiving maximum band edge emissions are Vertical Polarization.

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11b Channel 1, 11 / Ant. 6

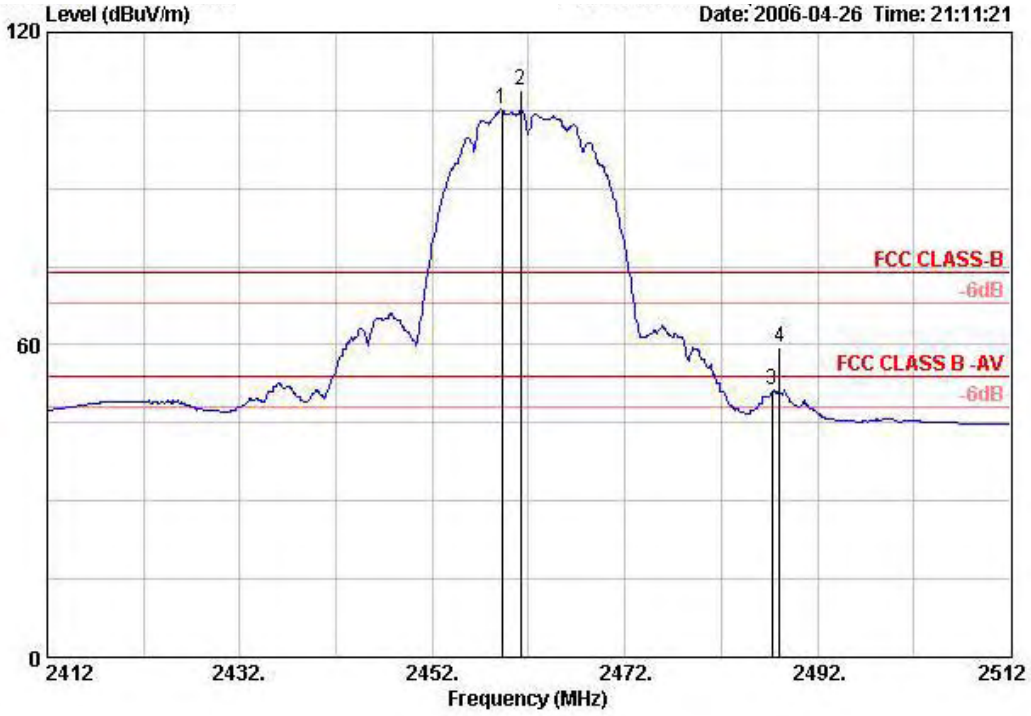
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	2386.200	53.50	-0.50	54.00	21.86	28.88	2.76	0.00	AVERAGE	VERTICAL	3
2	2386.600	61.98	-12.02	74.00	30.34	28.88	2.76	0.00	PEAK	VERTICAL	3
3 @	2409.200	108.87			77.18	28.90	2.79	0.00	AVERAGE	VERTICAL	3
4 @	2410.600	112.20			80.51	28.90	2.79	0.00	PEAK	VERTICAL	3

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

Channel 11

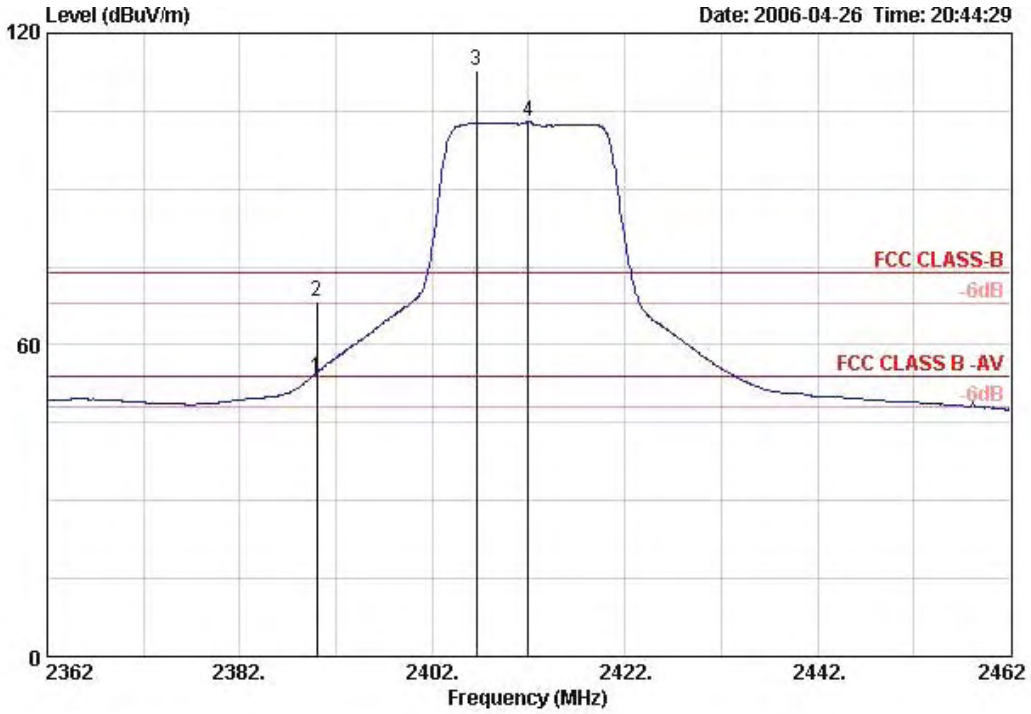


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	2459.200	105.25			73.48	28.96	2.81	0.00	AVERAGE	HORIZONTAL	3
2 @	2461.200	108.95			77.18	28.96	2.81	0.00	PEAK	HORIZONTAL	3
3 @	2487.300	51.35	-2.65	54.00	19.53	28.98	2.84	0.00	AVERAGE	HORIZONTAL	3
4	2488.100	59.53	-14.47	74.00	27.69	29.00	2.84	0.00	PEAK	HORIZONTAL	3

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

Temperature	24℃	Humidity	64%
Test Engineer	Leo Hung	Configurations	802.11g Channel 1, 11 / Ant. 6

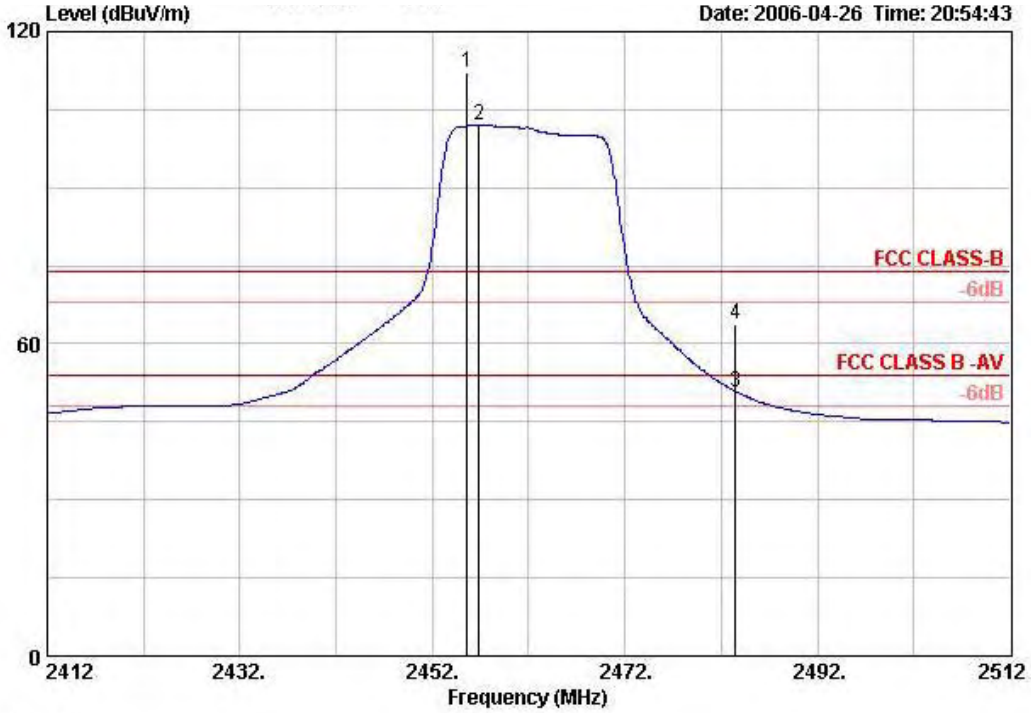
Channel 1



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	2390.000	53.57	-0.43	54.00	21.93	28.88	2.76	0.00	AVERAGE	VERTICAL	3
2 !	2390.000	68.40	-5.60	74.00	36.76	28.88	2.76	0.00	PEAK	VERTICAL	3
3 @	2406.600	112.68			80.99	28.90	2.79	0.00	PEAK	VERTICAL	3
4 @	2412.000	102.85			71.17	28.90	2.79	0.00	AVERAGE	VERTICAL	3

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

Channel 11



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	2455.600	111.99			80.22	28.96	2.81	0.00	PEAK	VERTICAL	3
2 @	2456.800	101.90	-----	-----	70.12	28.96	2.81	0.00	AVERAGE	VERTICAL	3
3 @	2483.500	50.80	-3.20	54.00	18.98	28.98	2.84	0.00	AVERAGE	VERTICAL	3
4	2483.500	63.78	-10.22	74.00	31.96	28.98	2.84	0.00	PEAK	VERTICAL	3

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

Note:

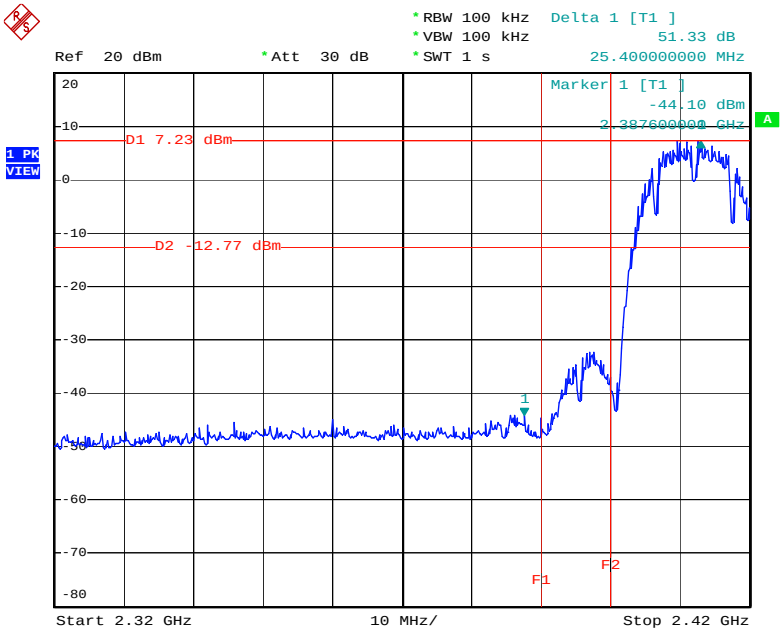
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Receiving maximum band edge emissions are Vertical Polarization.

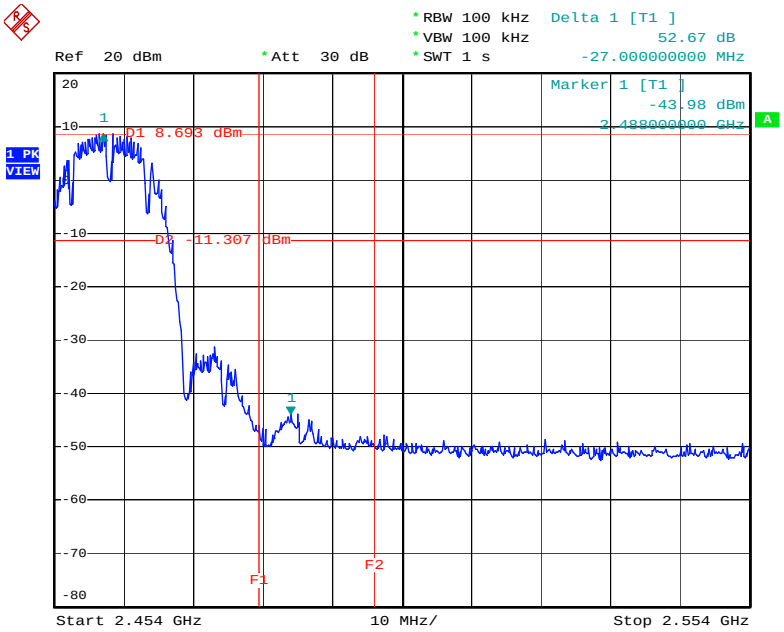
For Emission not in Restricted Band / Ant. 1

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



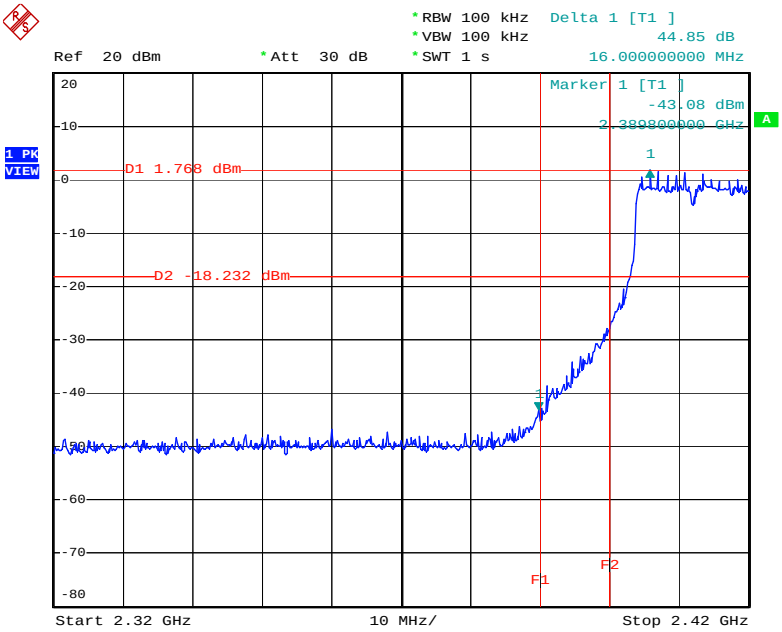
Date: 27.APR.2006 00:48:03

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



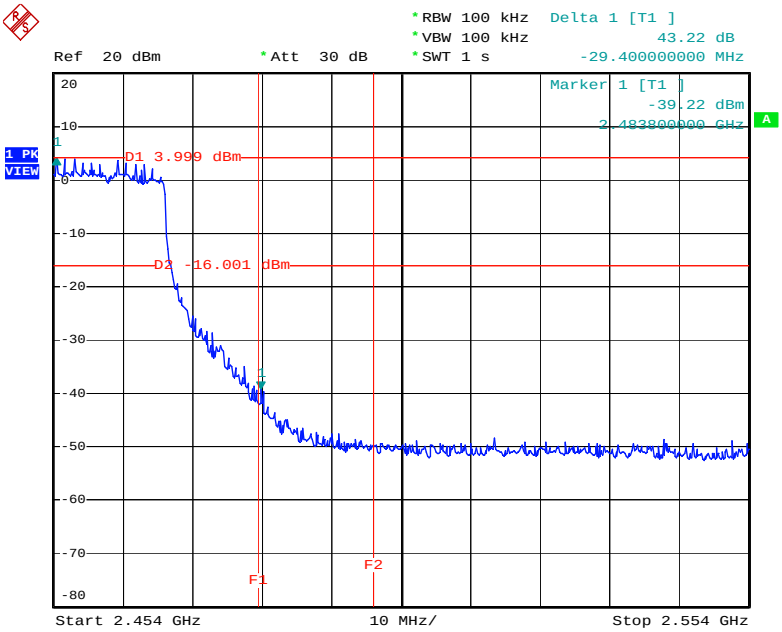
Date: 27.APR.2006 00:47:09

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



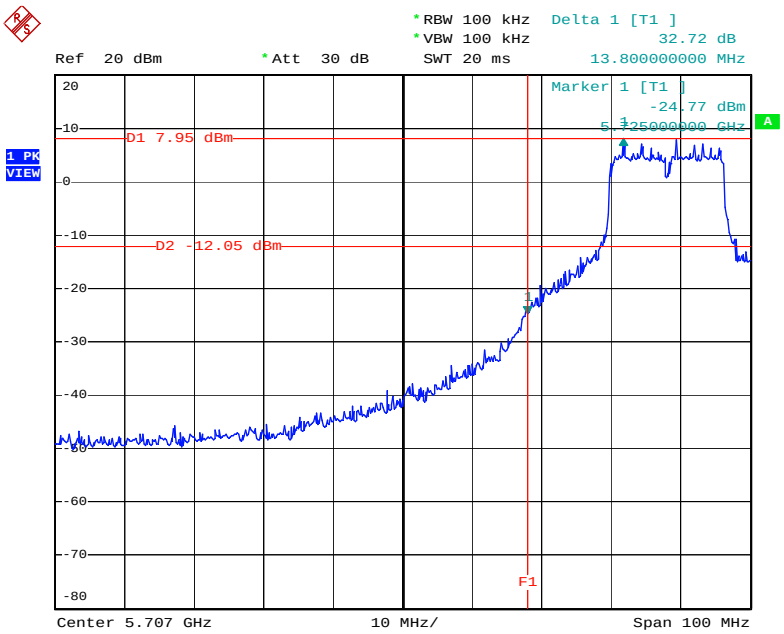
Date: 27.APR.2006 00:12:01

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



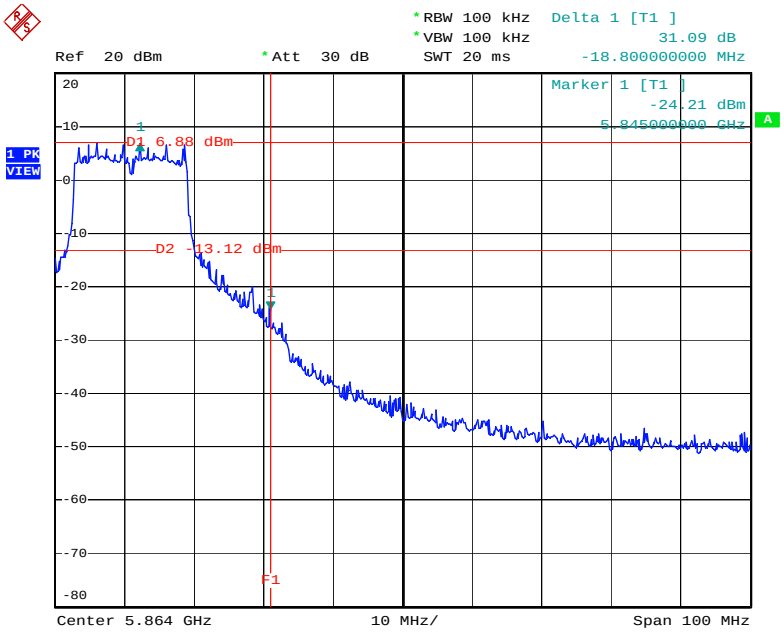
Date: 27.APR.2006 00:10:13

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



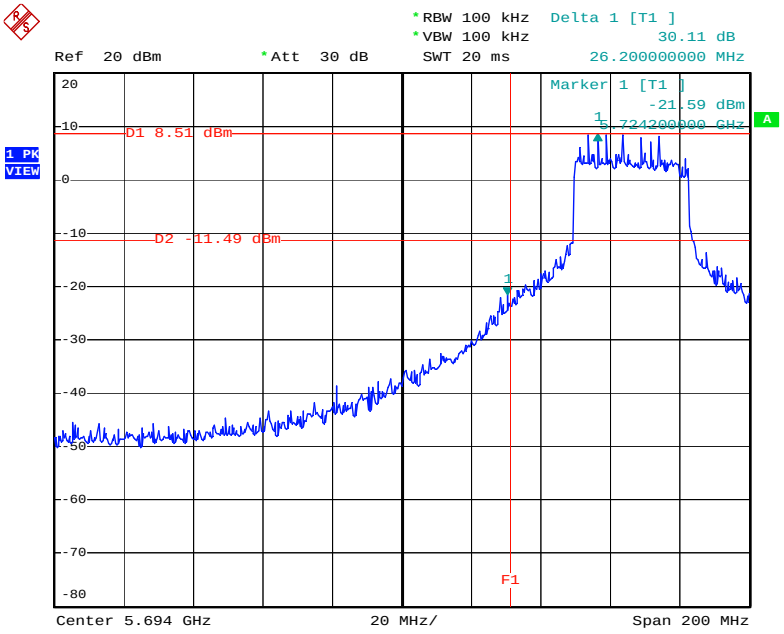
Date: 4.MAY.2006 23:09:27

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



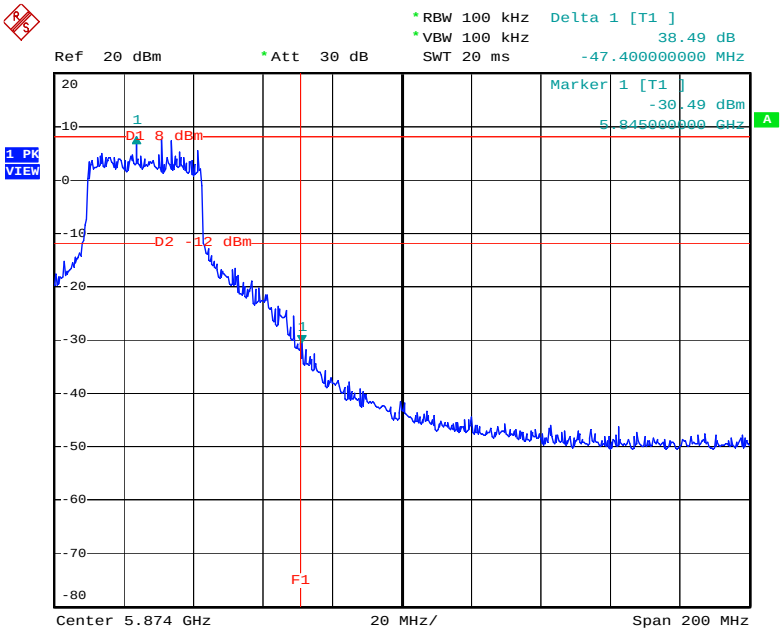
Date: 4.MAY.2006 22:51:48

Low Band Edge Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 4.MAY.2006 22:44:06

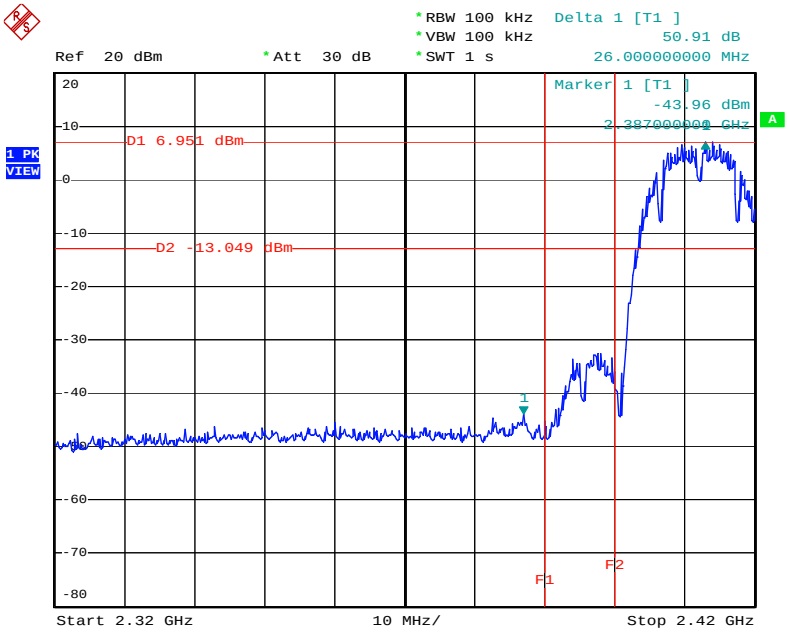
High Band Edge Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 4.MAY.2006 22:52:40

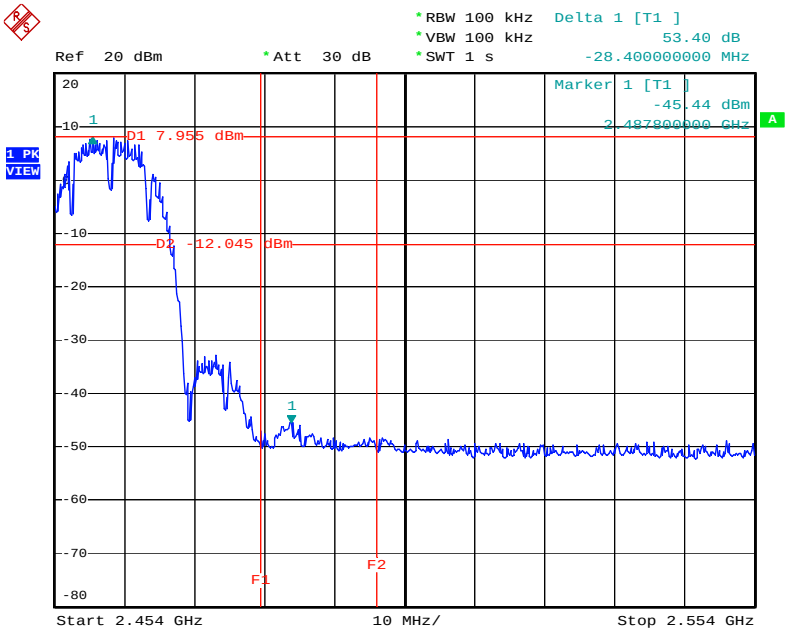
For Emission not in Restricted Band / Ant. 2

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



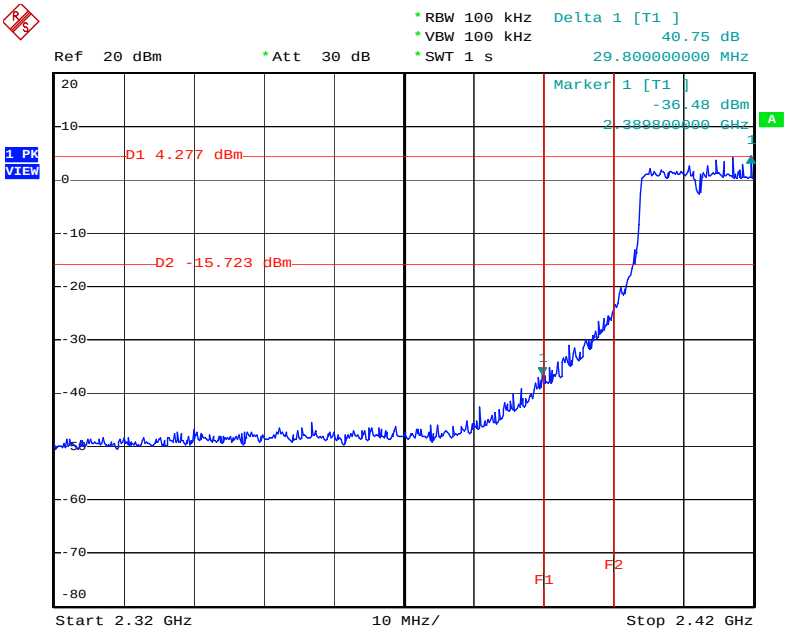
Date: 5.MAY.2006 19:35:06

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



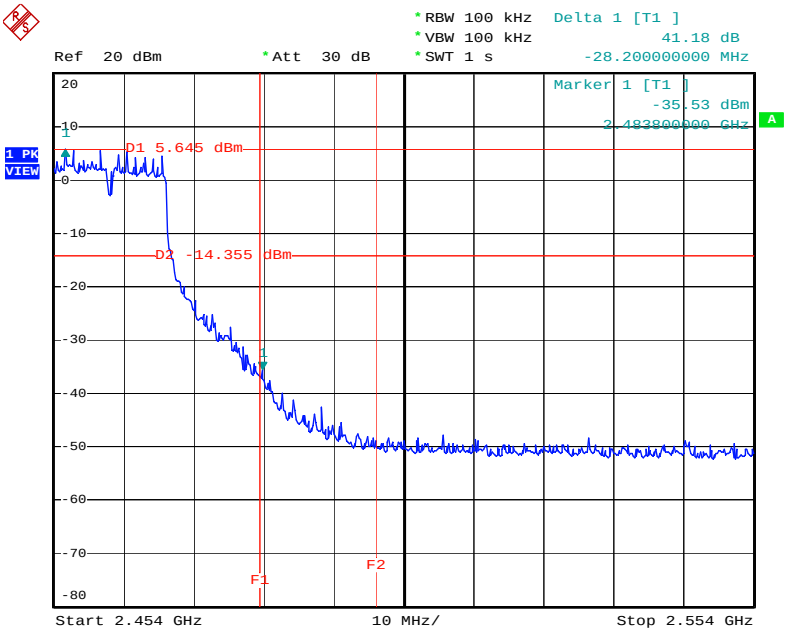
Date: 5.MAY.2006 19:36:18

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



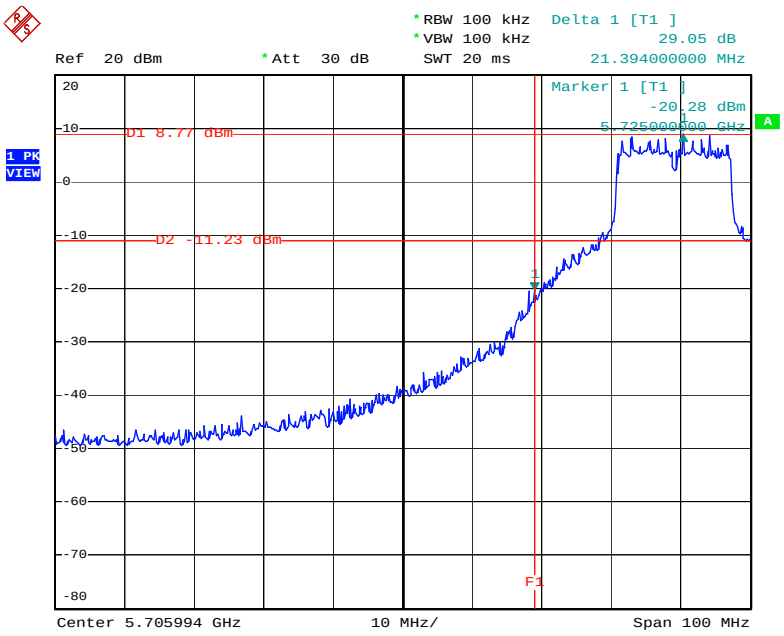
Date: 4.MAY.2006 09:19:23

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



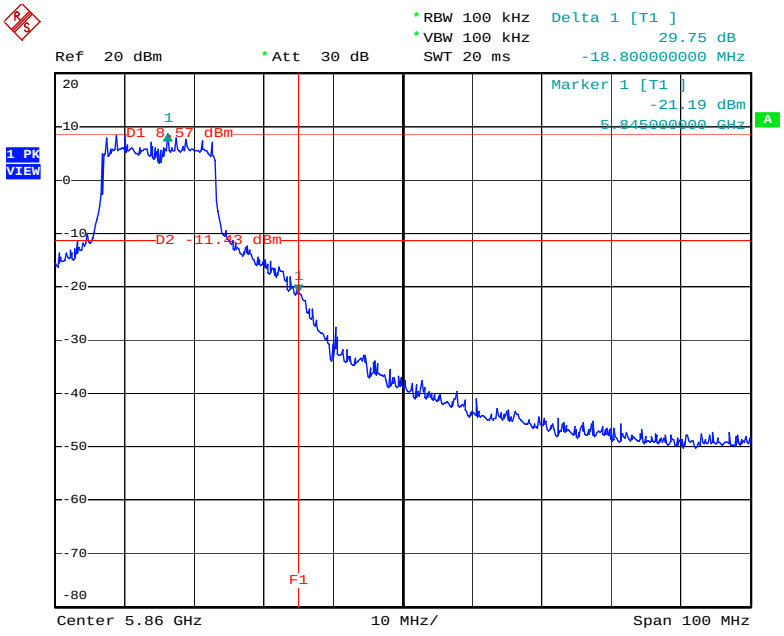
Date: 4.MAY.2006 09:20:50

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



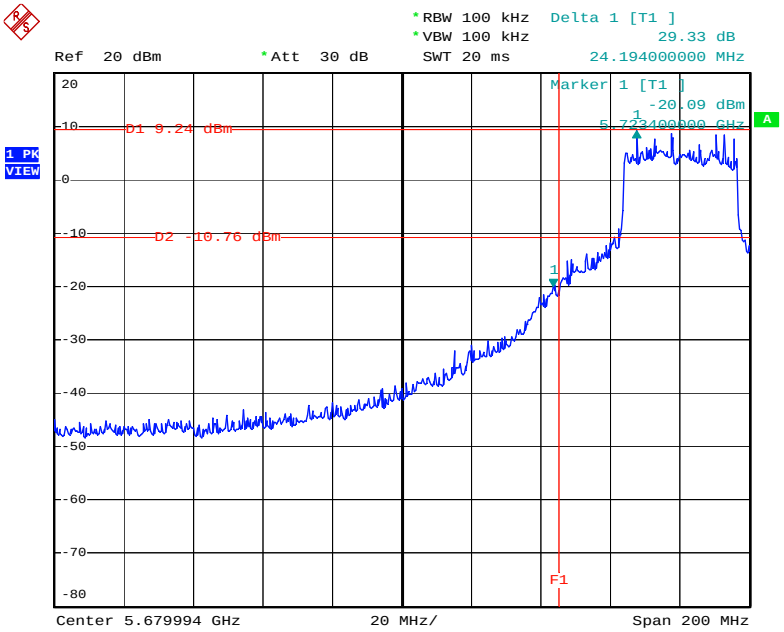
Date: 27.APR.2006 23:38:41

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



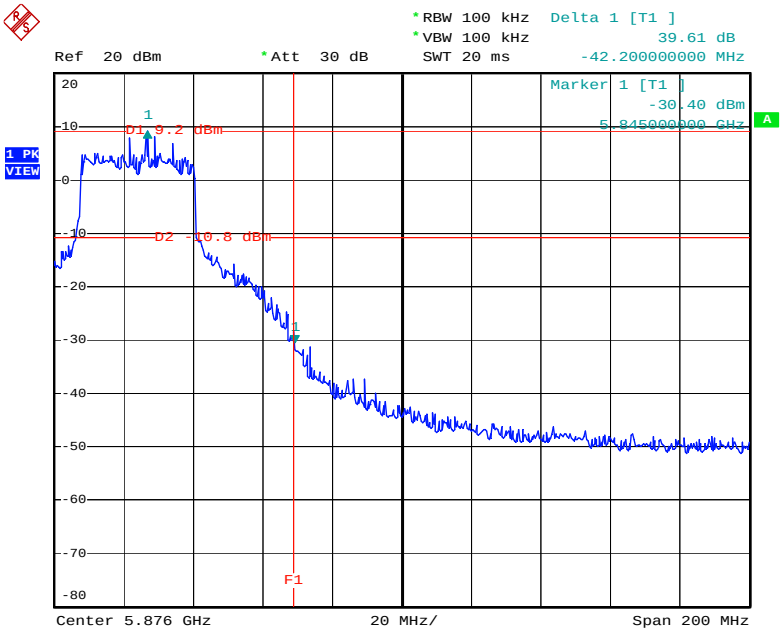
Date: 27.APR.2006 23:31:28

Low Band Edge Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 27.APR.2006 23:28:48

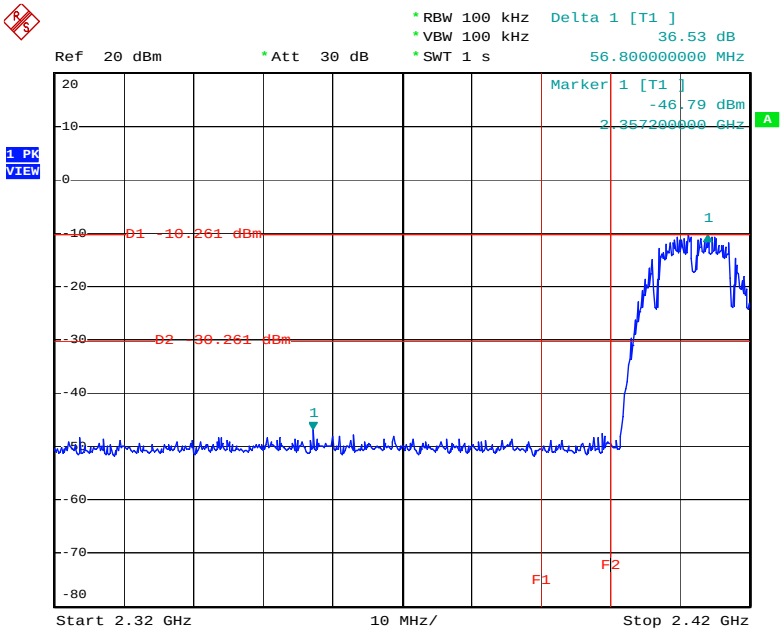
High Band Edge Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 27.APR.2006 23:29:52

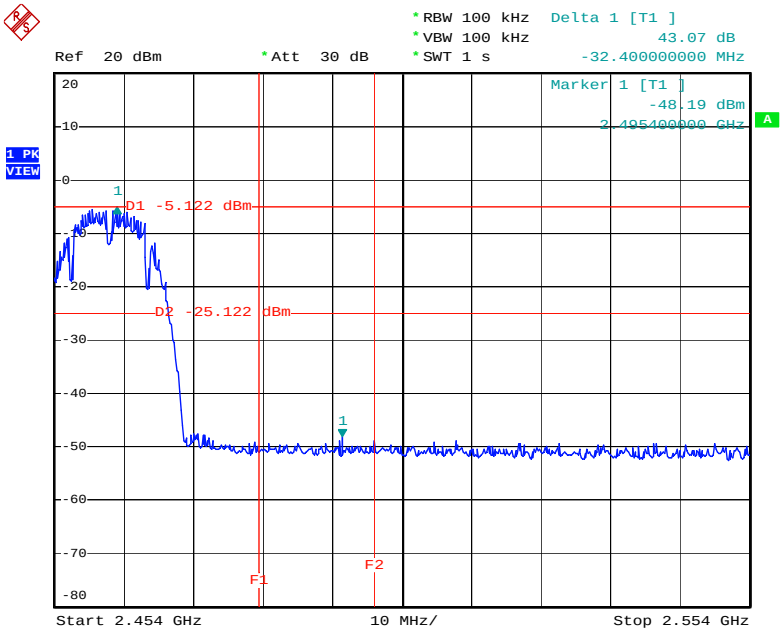
For Emission not in Restricted Band / Ant. 3

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



Date: 27.APR.2006 00:37:43

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



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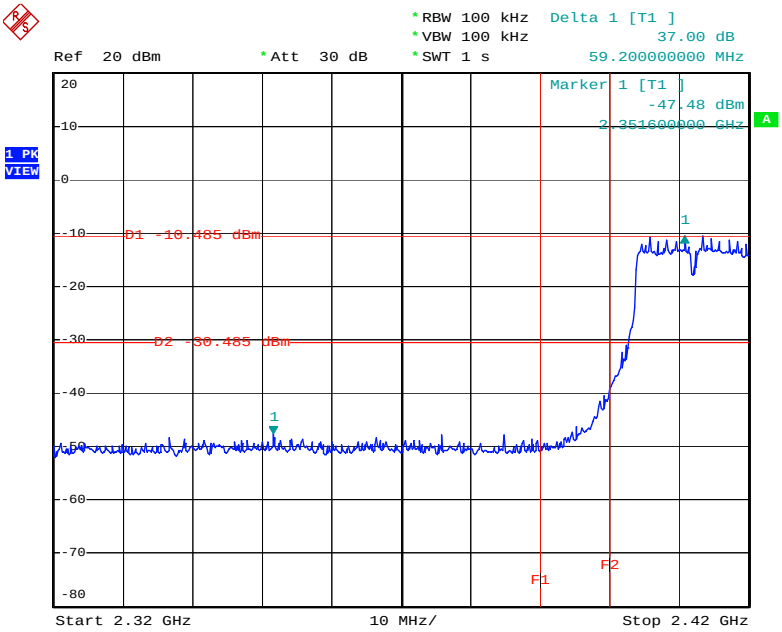
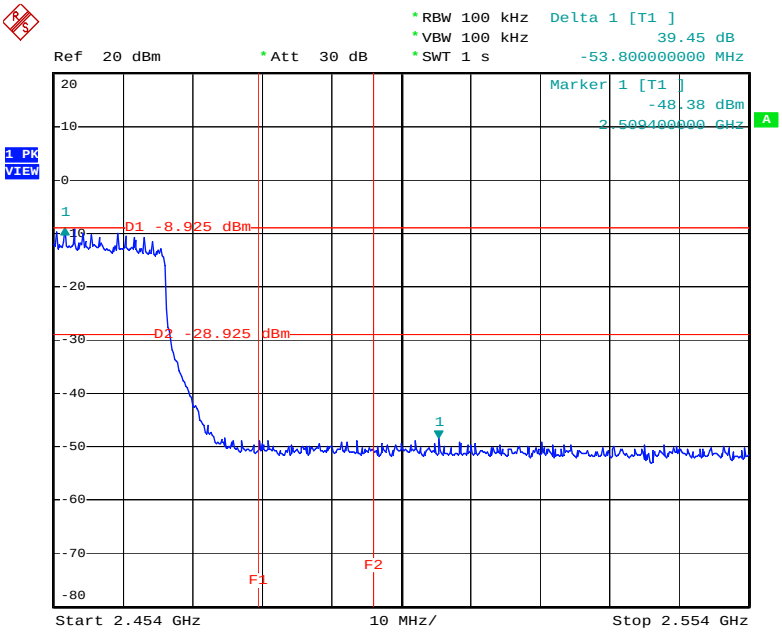
Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



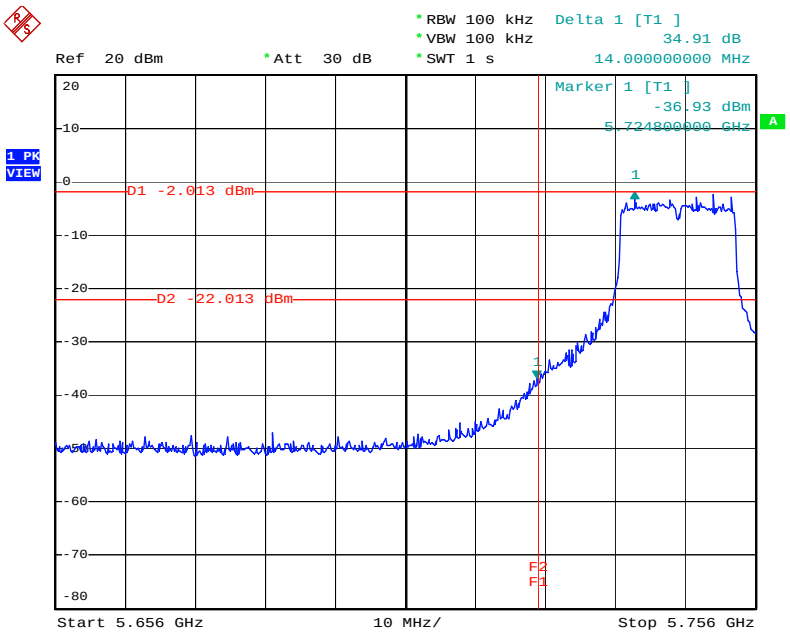
Date: 27.APR.2006 00:30:00

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



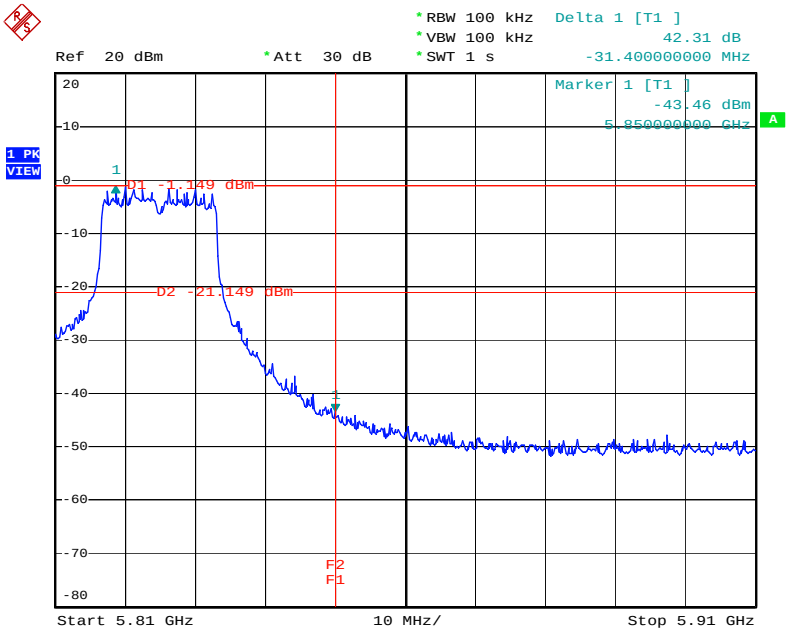
Date: 27.APR.2006 00:31:56

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



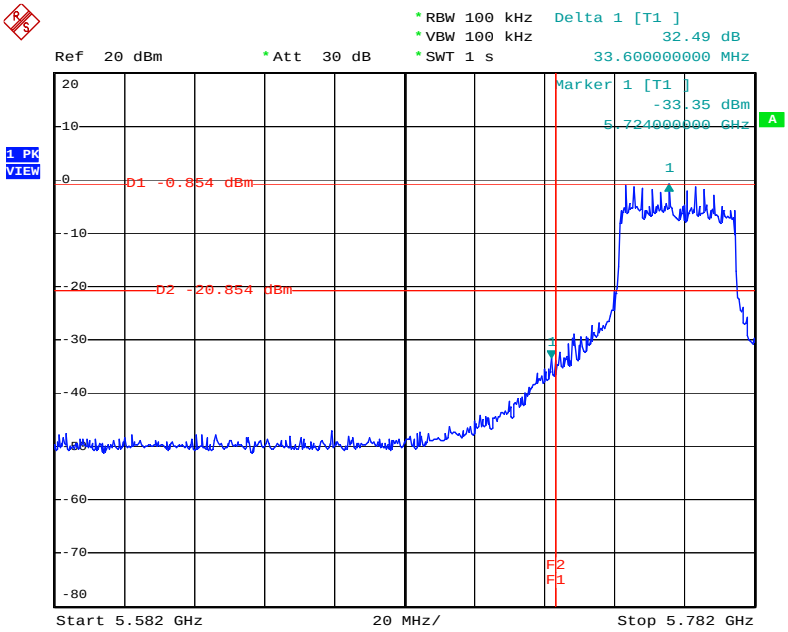
Date: 8.JUN.2006 19:37:23

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



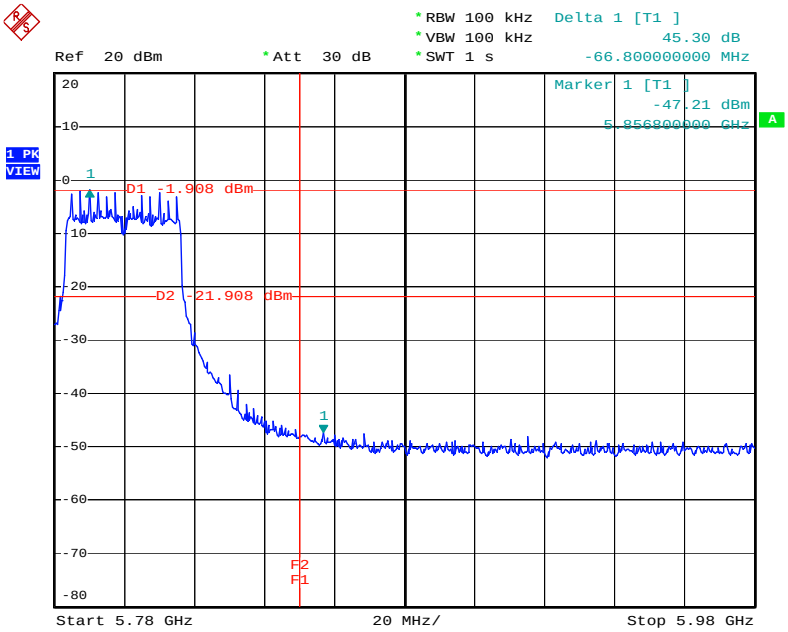
Date: 8.JUN.2006 19:38:26

Low Band Edge Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 8.JUN.2006 19:59:16

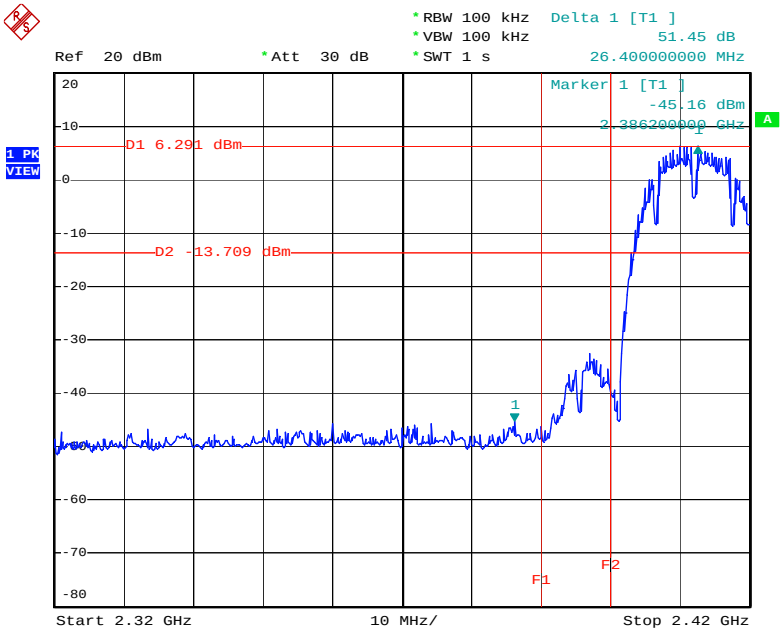
High Band Edge Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 8.JUN.2006 19:58:12

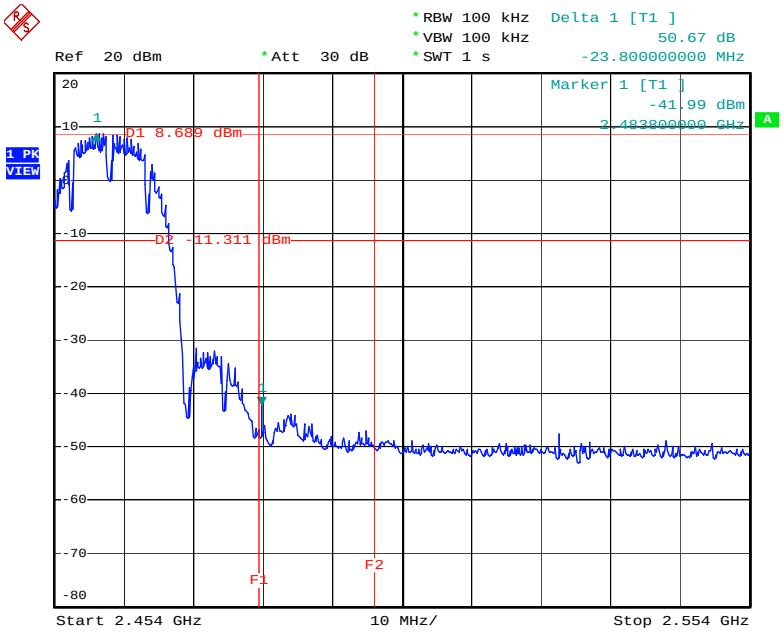
For Emission not in Restricted Band / Ant. 4

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



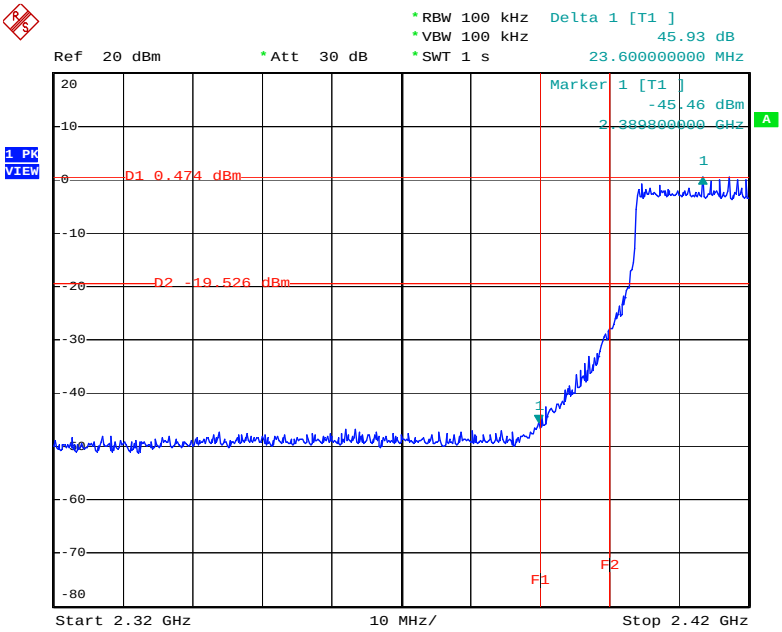
Date: 27.APR.2006 00:50:27

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



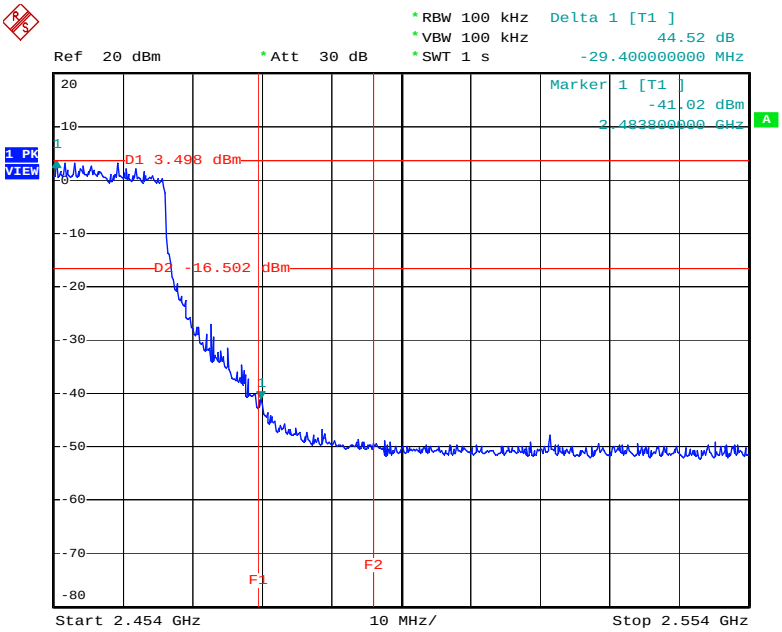
Date: 27.APR.2006 00:53:44

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



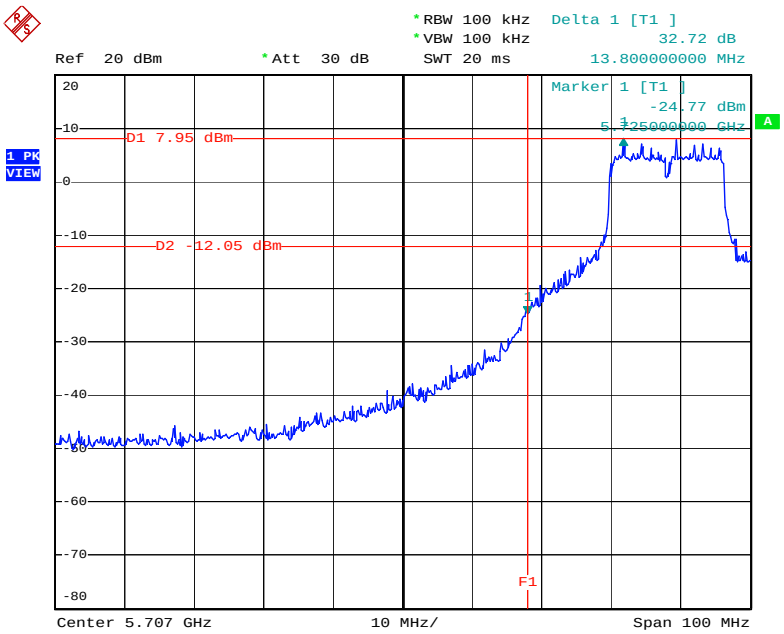
Date: 27.APR.2006 00:14:57

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



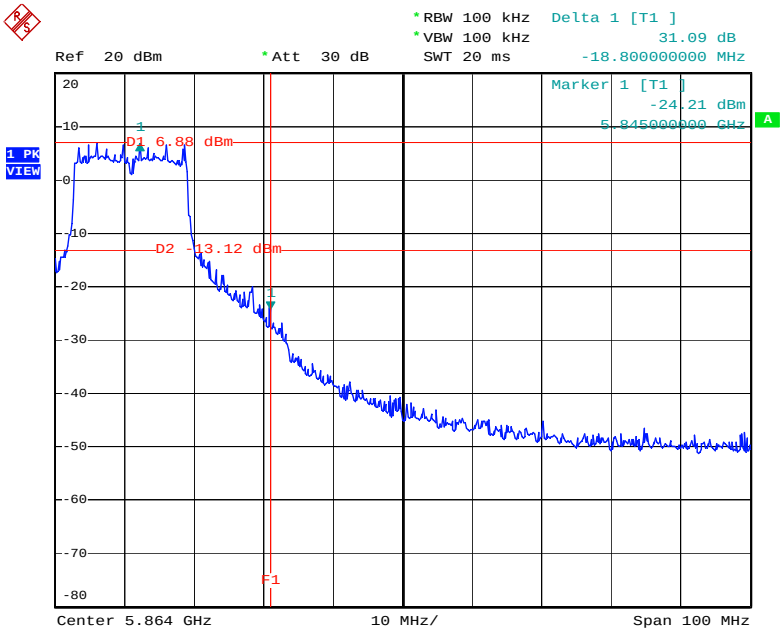
Date: 27.APR.2006 00:24:22

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



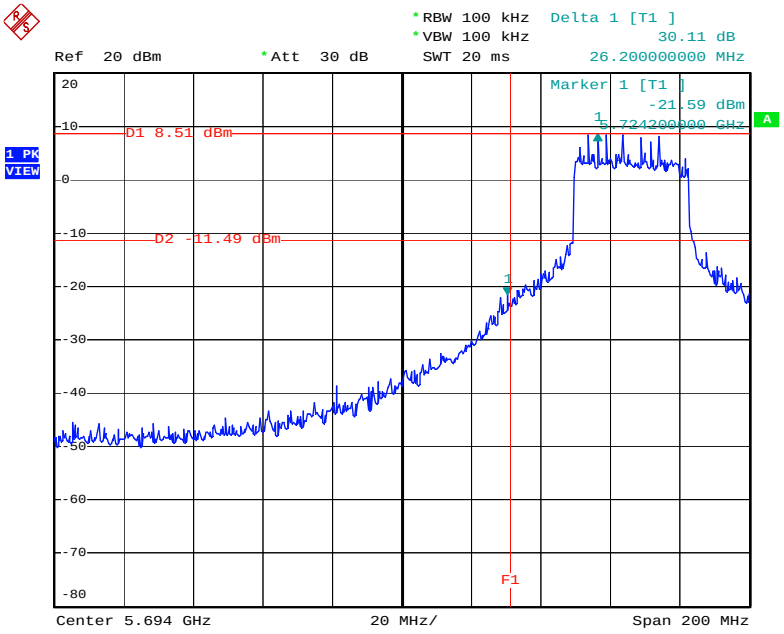
Date: 4.MAY.2006 23:09:27

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



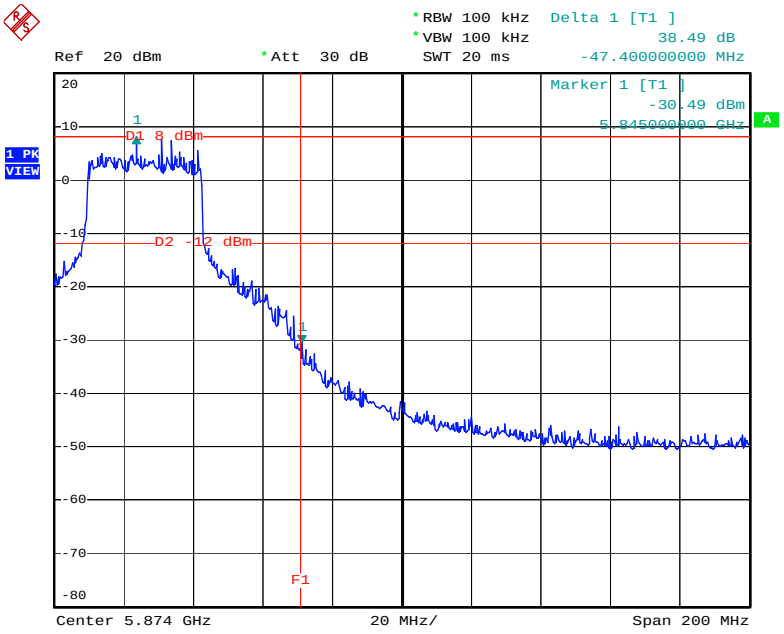
Date: 4.MAY.2006 22:51:48

Low Band Edge Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 4.MAY.2006 22:44:06

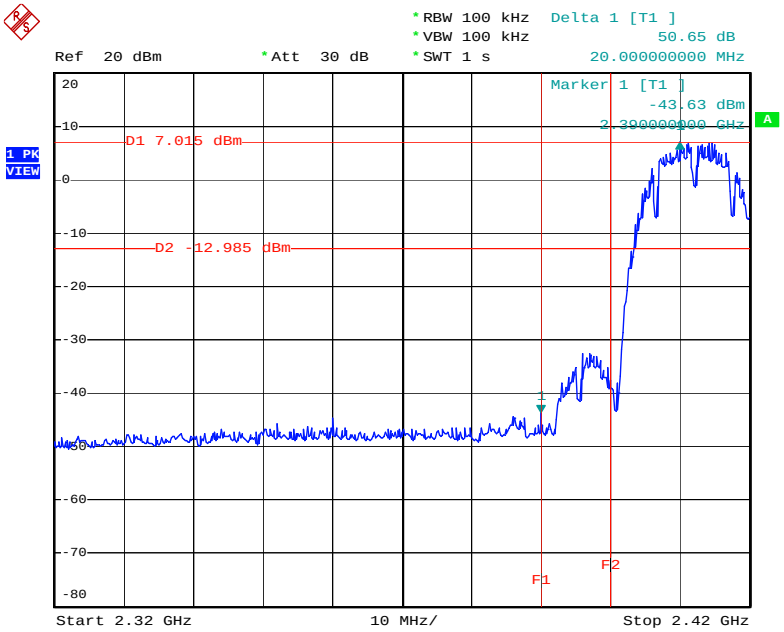
High Band Edge Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 4.MAY.2006 22:52:40

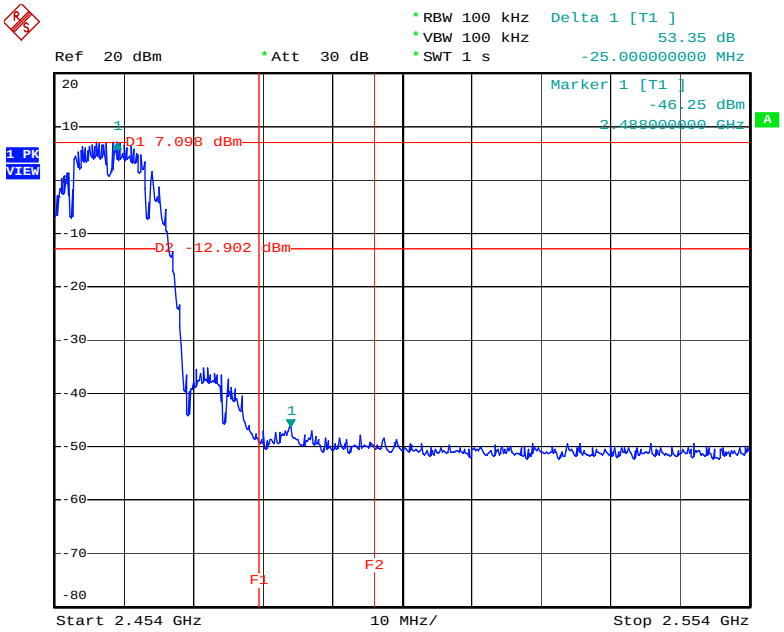
For Emission not in Restricted Band / Ant. 5

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



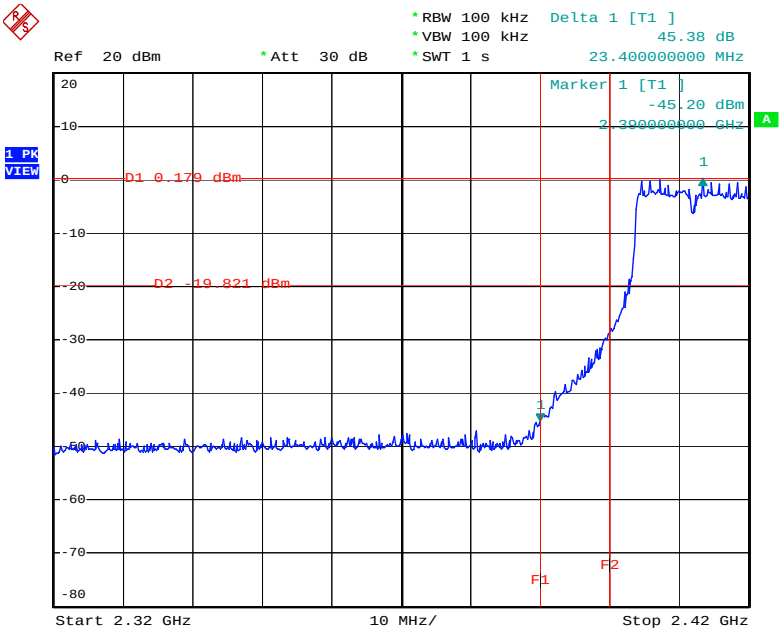
Date: 27.APR.2006 00:57:10

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



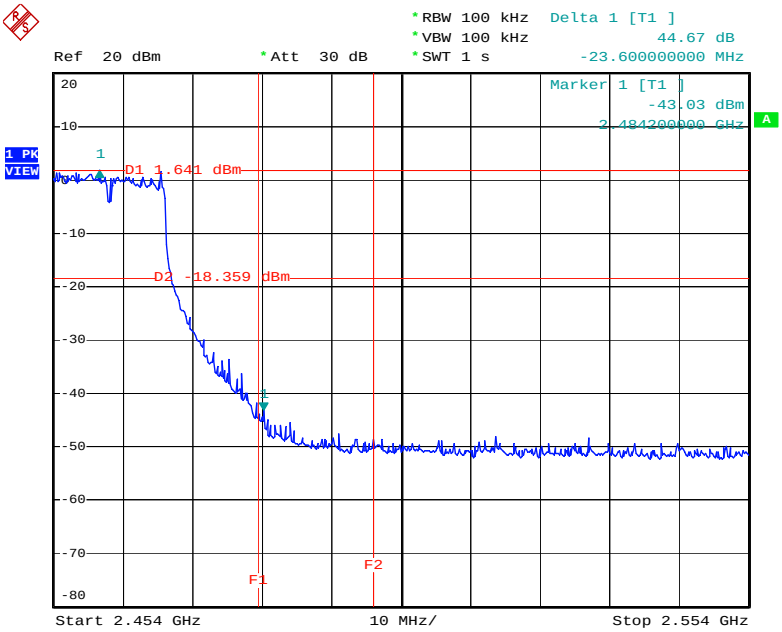
Date: 27.APR.2006 00:54:59

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



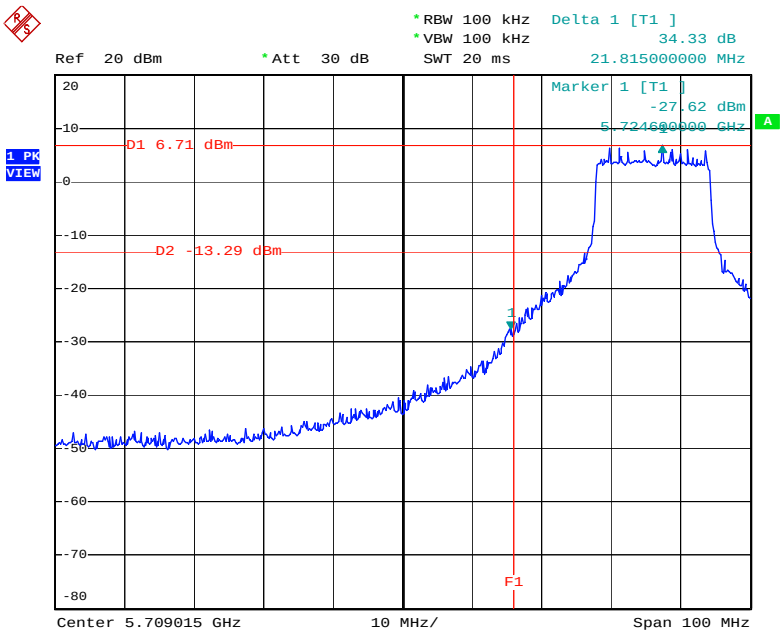
Date: 27.APR.2006 00:27:29

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



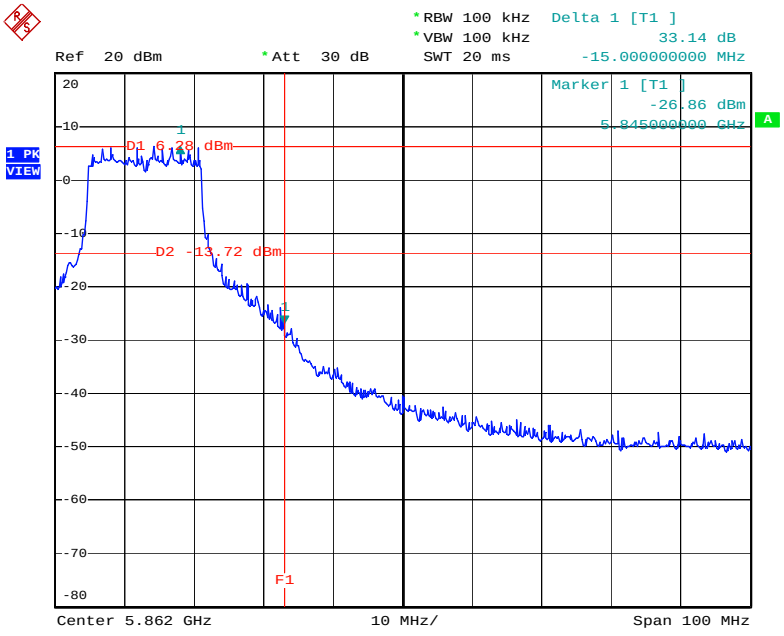
Date: 27.APR.2006 00:25:30

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



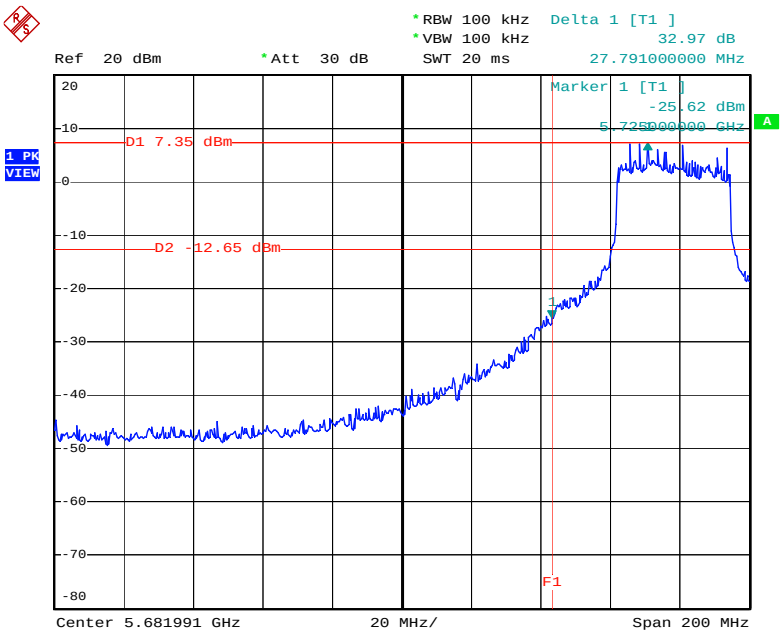
Date: 5.MAY.2006 18:45:08

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



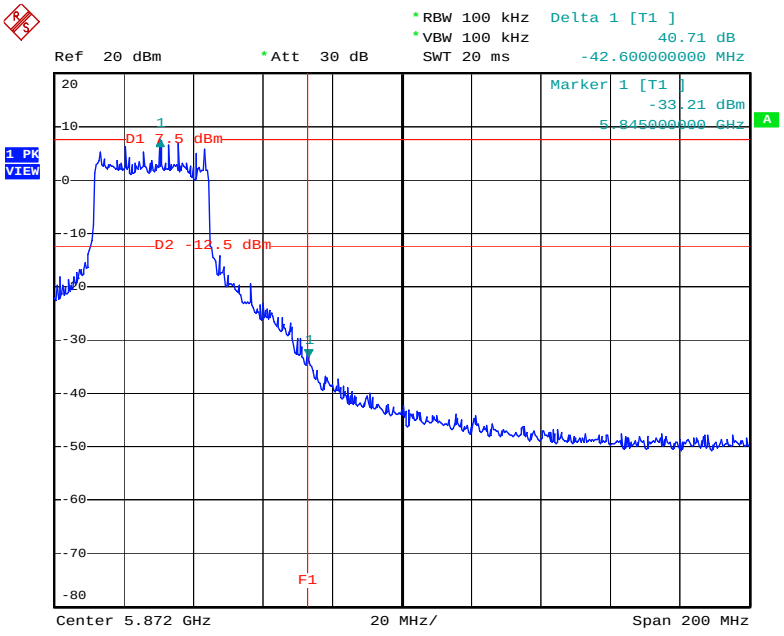
Date: 5.MAY.2006 18:48:09

Low Band Edge Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 18:53:14

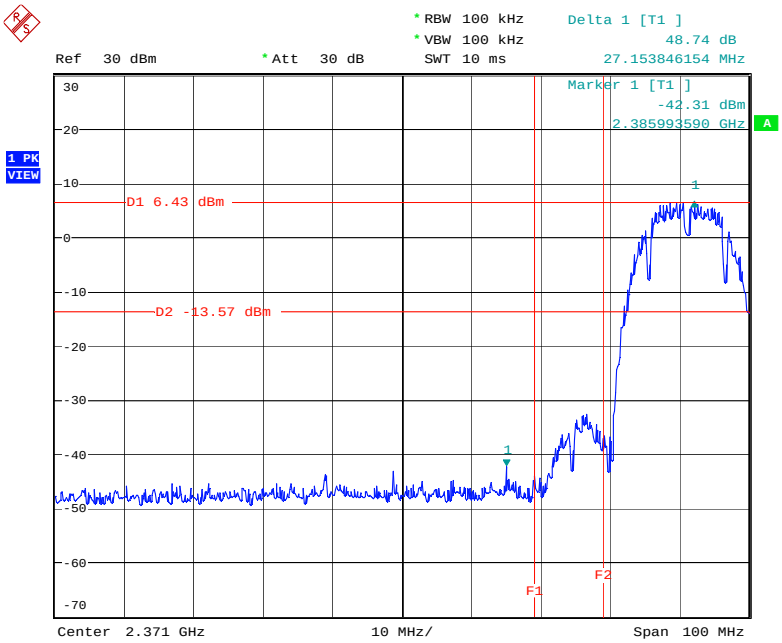
High Band Edge Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 5.MAY.2006 18:51:05

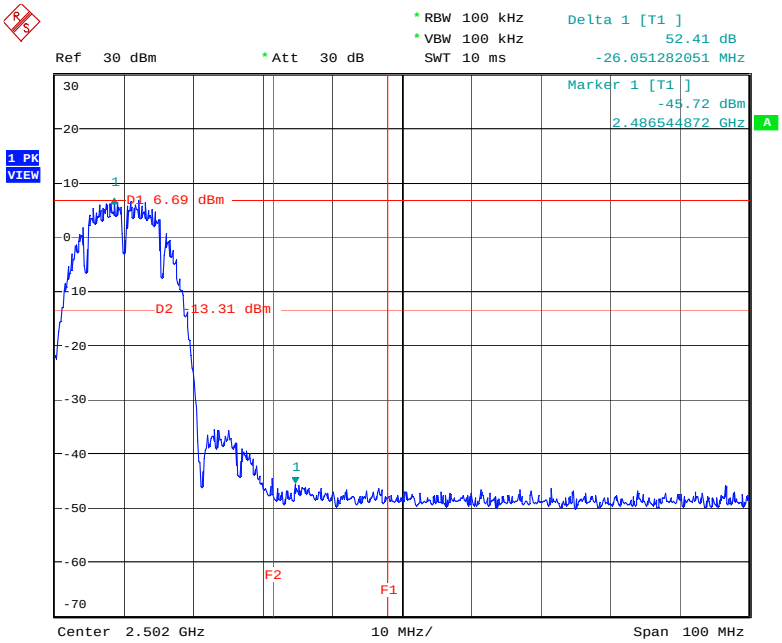
For Emission not in Restricted Band / Ant. 6

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



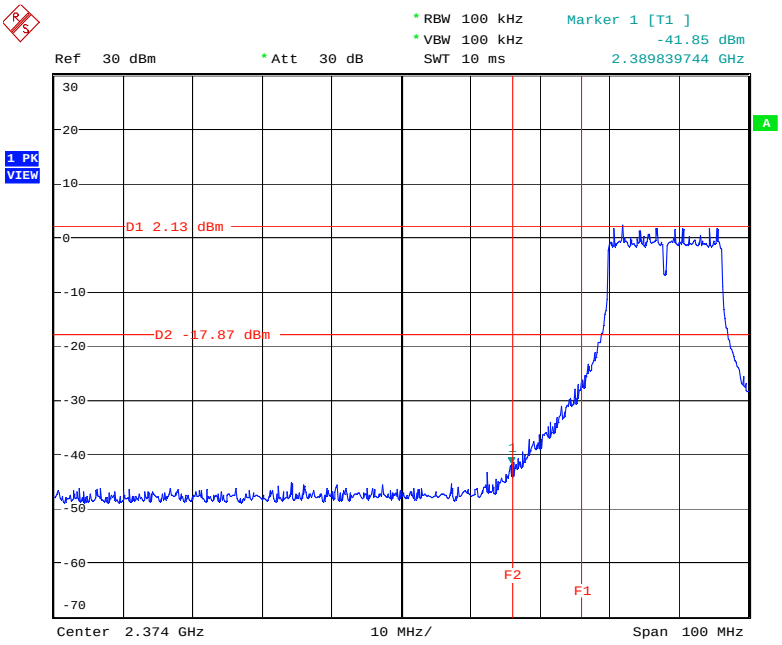
Date: 8.MAY.2006 12:02:00

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



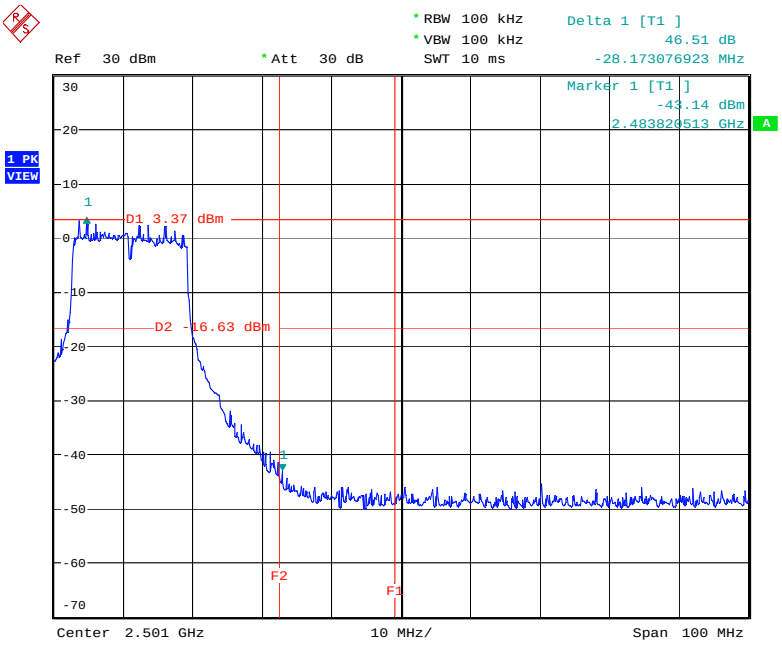
Date: 8.MAY.2006 12:19:26

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



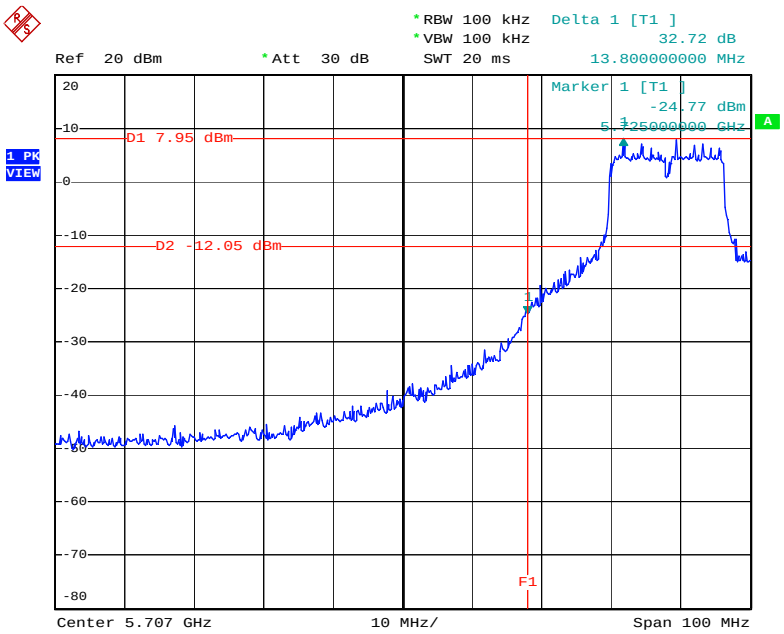
Date: 8.MAY.2006 12:32:52

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



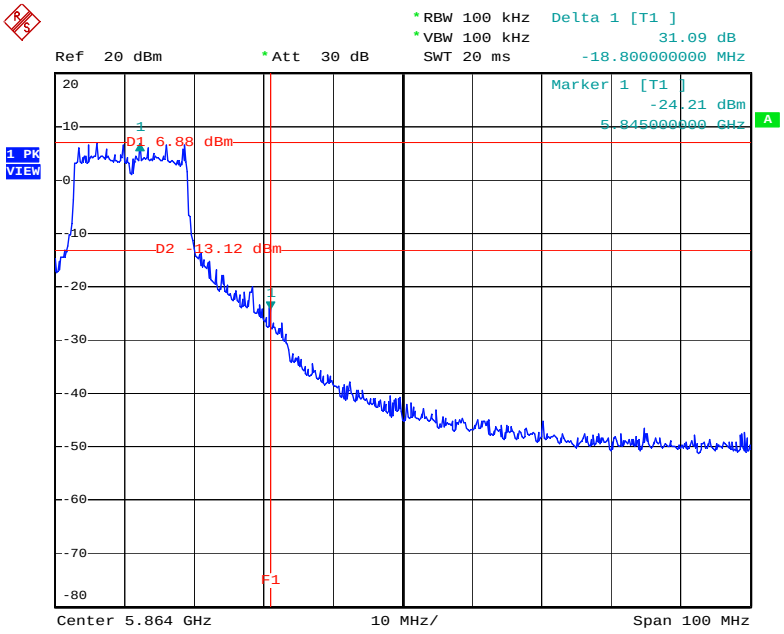
Date: 8.MAY.2006 12:39:26

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



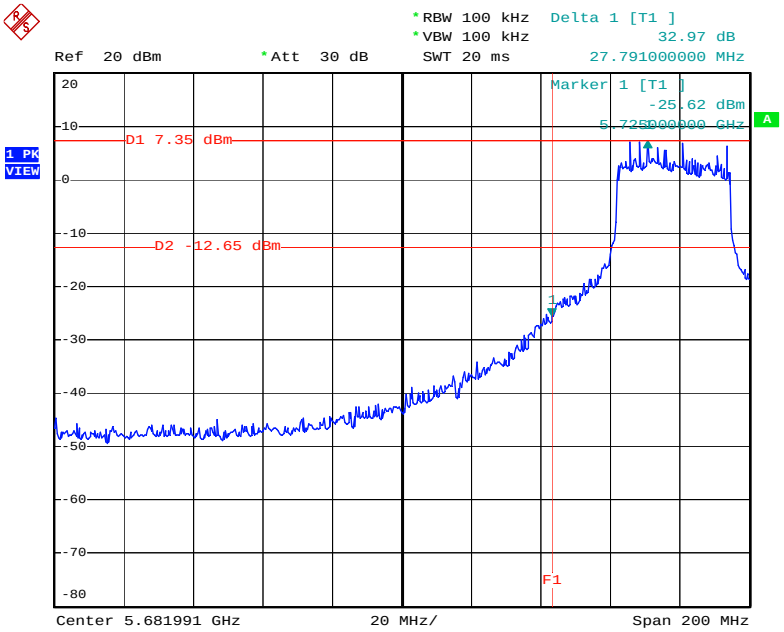
Date: 4.MAY.2006 23:09:27

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



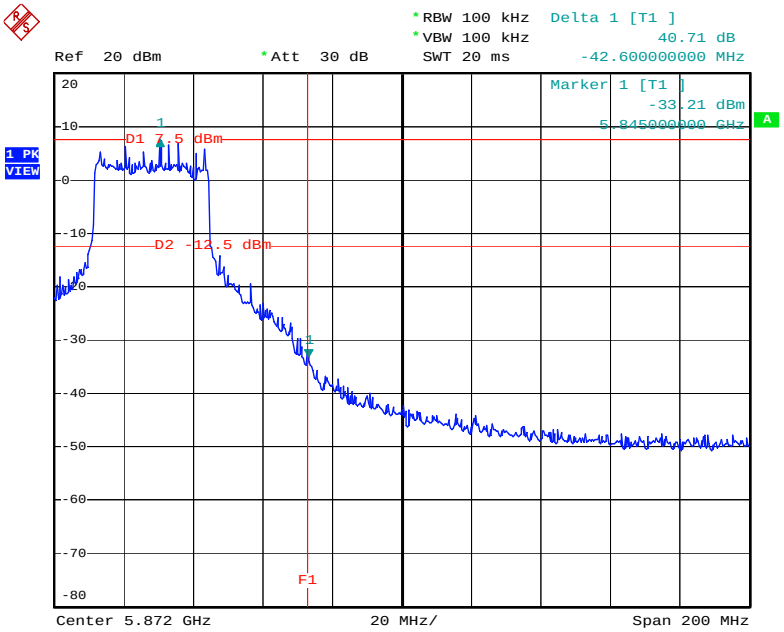
Date: 4.MAY.2006 22:51:48

Low Band Edge Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 18:53:14

High Band Edge Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 5.MAY.2006 18:51:05

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, all antenna connectors comply 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. 22, 2006	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Dec. 19, 2005	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9708-1839	9kHz – 30MHz	Mar. 18, 2006	Conduction (CO04-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 22, 2005	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. 16, 2005	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	3565	9 kHz - 2 GHz	Jan. 18, 2006	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	May 31, 2005	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. 30, 2005	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 24, 2004*	Radiation (03CH03-HY)
Biconical Antenna	SCHWARZBECK	VHBB 9124	301	30 MHz - 200 MHz	Jul. 22, 2005	Radiation (03CH03-HY)
Log Antenna	SCHWARZBECK	VUSLP 9111	221	200 MHz - 1 GHz	Jul. 22, 2005	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6903	1GHz ~ 18GHz	Mar. 15, 2006	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jun. 09, 2004*	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec.02, 2005	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec.02, 2005	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, 2005	Conducted (TH01-HY)
Power meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 06, 2005	Conducted (TH01-HY)
Power sensor	R&S	NRV-Z55	100049	DC ~ 40GHz	Jul. 06, 2005	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Apr. 27, 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, 2005	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2005	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 30, 2005	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 30, 2005	Conducted (TH01-HY)
Oscilloscope	Tektronix	TDS1012	CO38515	100MHz / 1GS/s	Apr. 15, 2005*	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Dec. 30, 2005	Conducted (TH01-HY)
Data Generator	Tektronix	DG2030	063-2920-50	0.1Hz~400MHz	Jun. 01, 2006	Conducted (TH01-HY)

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

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

6. SPORTON COMPANY PROFILE

SPORTON Lab. was established in 1986 with one shielded room: the first private EMI test facility, offering local manufacturers an alternative EMI test familial apart from ERSO. In 1988, one 3M and 10M/3M open area test site were setup and also obtained official accreditation from FCC, VCCI and NEMKO. In 1993, a Safety laboratory was founded and obtained accreditation from UL of USA, CSA of Canada and TUV (Rhineland & PS) of Germany. In 1995, one EMC lab, including EMI and EMS test facilities was setup. In 1997, SPORTON Group has provided financial expense to relocate the headquarter to Orient Scientific Park in Taipei Hsien to offer more comprehensive, more qualified and better service to local suppliers and manufactures. In 1999, Safety Group and Component Group were setup. In 2001, SPORTON has established 3M/10M chamber in Hwa Ya Technology Park.

6.1. Test Location

SHIJR	ADD	: 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	: 02-2696-2468
	FAX	: 02-2696-2255
HWA YA	ADD	: No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	: 03-327-3456
	FAX	: 03-318-0055
LINKOU	ADD	: No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	: 02-2601-1640
	FAX	: 02-2601-1695
DUNGHU	ADD	: No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	: 02-2631-4739
	FAX	: 02-2631-9740
JUNGHE	ADD	: 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	: 02-8227-2020
	FAX	: 02-8227-2626
NEIHU	ADD	: 4Fl., No. 339, Hsin Hu 2nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	: 02-2794-8886
	FAX	: 02-2794-9777
JHUBEI	ADD	: No.8, Lane 728, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.
	TEL	: 03-656-9065
	FAX	: 03-656-9085