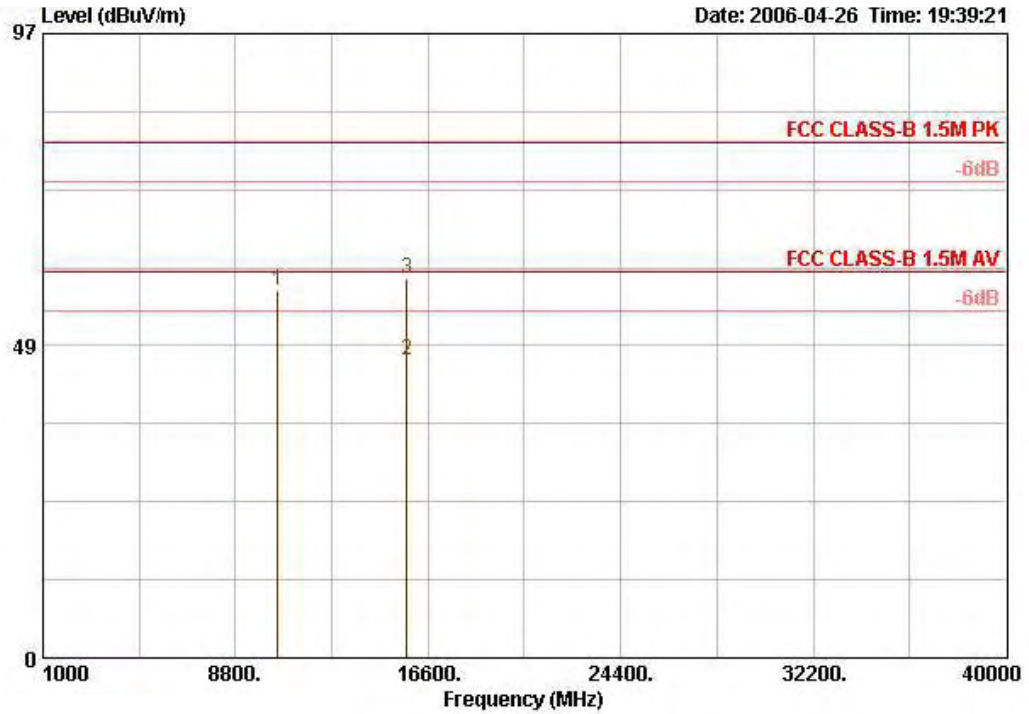


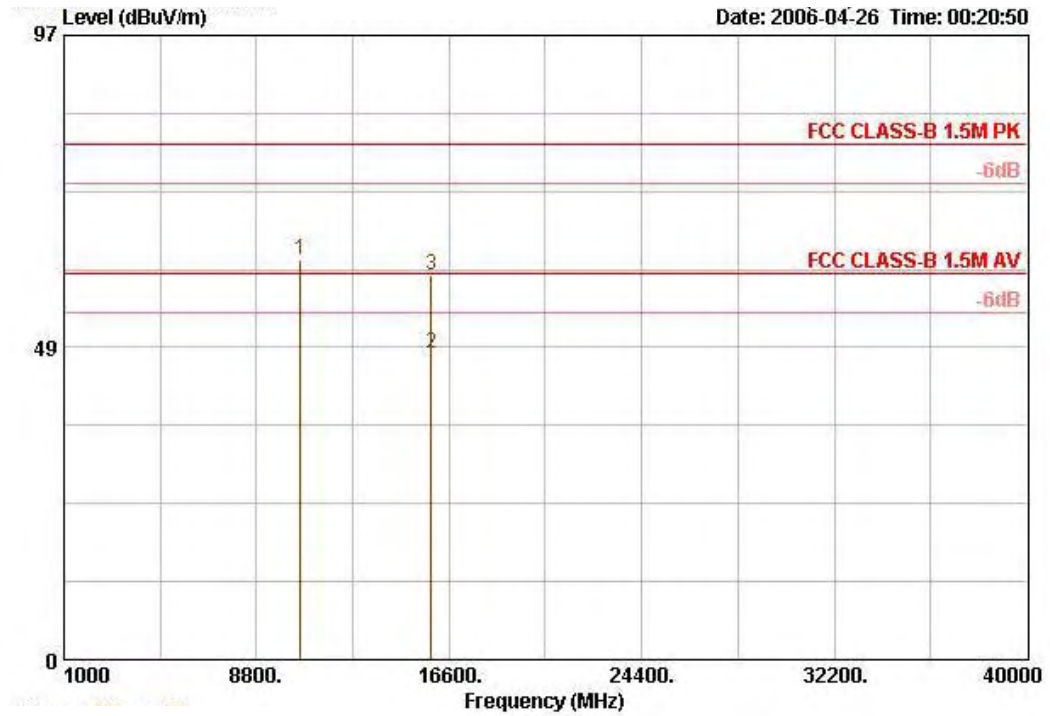
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	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	10497.600	57.08	-22.92	80.00	39.50		5.93	35.43	47.07	PEAK	124	208
2	15747.800	46.30	-13.70	60.00	37.84		9.42	35.56	34.60	AVERAGE	121	245
3	15747.800	58.88	-21.12	80.00	37.84		9.42	35.56	47.18	PEAK	121	245

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 58 / Ant. 4

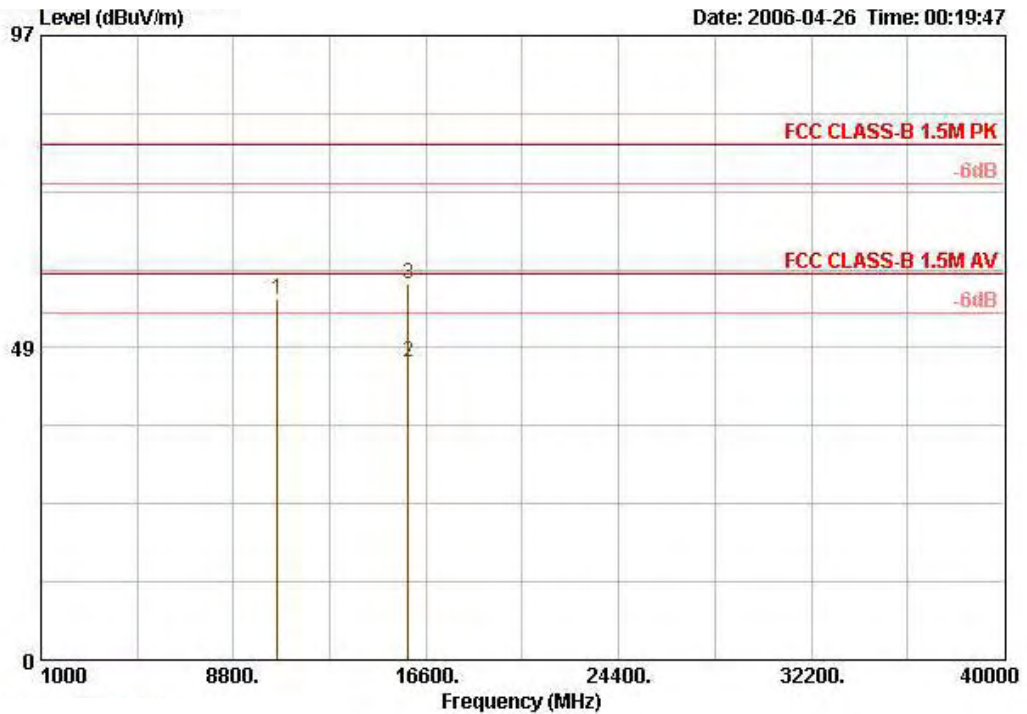
Vertical



	Over	Limit	Antenna	Cable	Preamp	Read		Ant	Table
Freq	Level	Limit	Line	Loss	Factor	Level	Remark	Pos	Pos
MHz	dBUV/m	dB	dBUV/m	dB/m	dB	dB	dBUV	cm	deg
1	10577.700	62.00		39.46	6.00	35.35	51.89 PEAK	116	278
2	15866.400	47.59	-12.41	60.00	37.69	9.52	35.48 AVERAGE	130	281
3	15866.400	59.85	-20.15	80.00	37.69	9.52	35.48 48.11 PEAK	130	281

Note: Item 1 is on un-restricted band, so the limit is the EIRP of -27dBm/MHz (74.25 dBUV/m at 1.5m).

Horizontal



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table		
Freq	Level	Limit	Line	Factor	Loss	Factor	Level	Remark	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	10577.500	56.09	-23.91	80.00	39.46	6.00	35.35	45.99 PEAK	119	265
2	15869.000	46.26	-13.74	60.00	37.67	9.52	35.48	34.55 AVERAGE	125	248
3	15869.000	58.37	-21.63	80.00	37.67	9.52	35.48	46.66 PEAK	125	248

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.

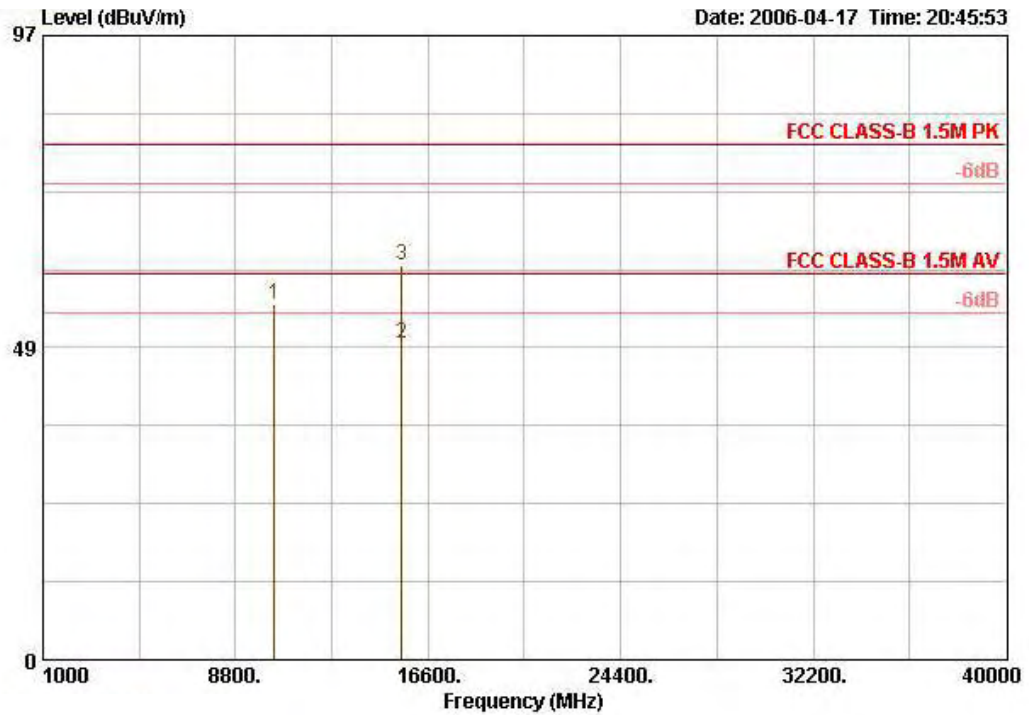
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

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

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

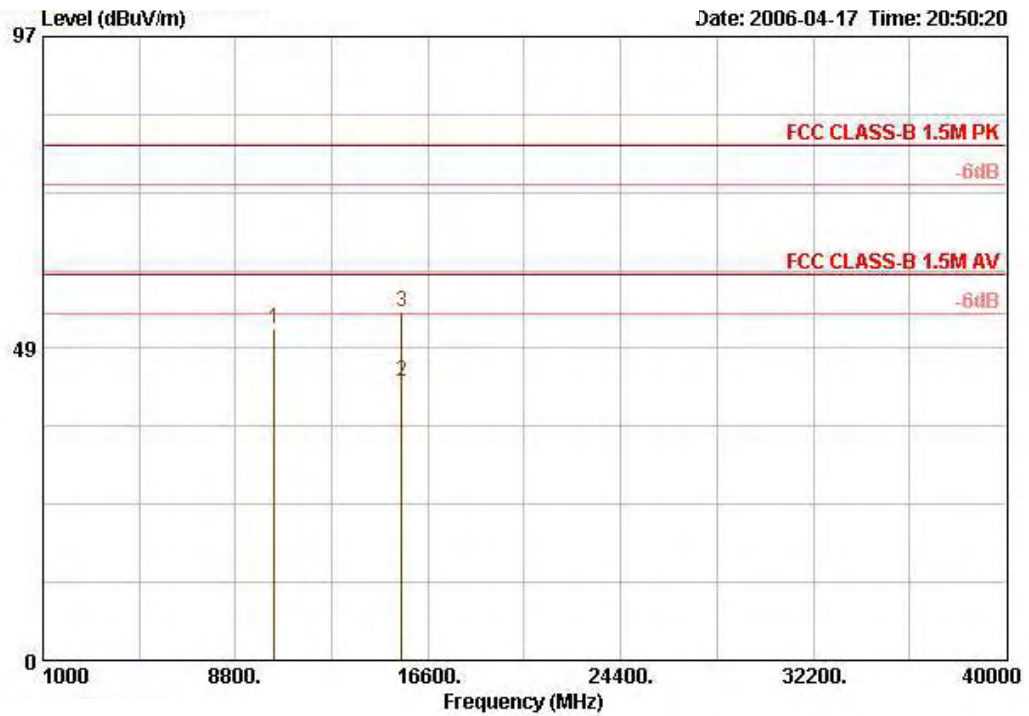
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 36 / Ant. 5

Vertical



	Freq	Level	Over Limit	Antenna Line 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	10357.320	55.24	-24.76	80.00	39.32	5.80	35.55	45.67	100	276
2	15541.240	49.18	-10.82	60.00	38.15	9.26	35.68	37.45	104	237
3	15541.240	61.36	-18.64	80.00	38.15	9.26	35.68	49.64	104	237

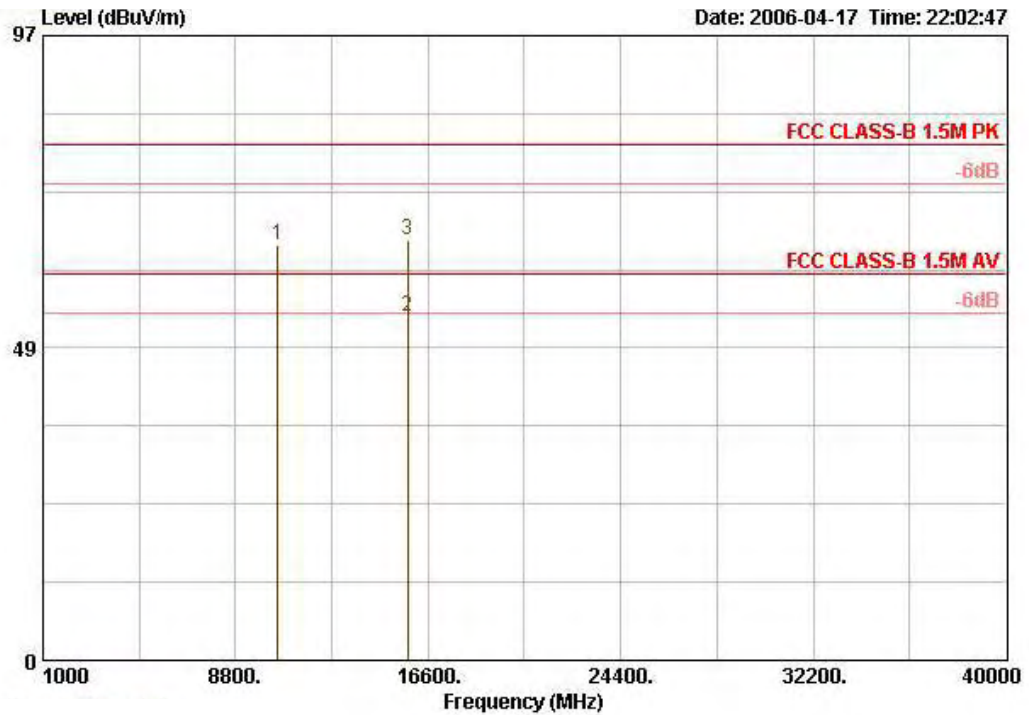
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	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	10360.760	51.51	-28.49	80.00	39.34	5.80	35.55	41.92	PEAK		107	307
2	15541.240	43.23	-16.77	60.00	38.15	9.26	35.68	31.51	AVERAGE		101	3
3	15541.240	54.23	-25.77	80.00	38.15	9.26	35.68	42.51	PEAK		101	3

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 52 / Ant. 5

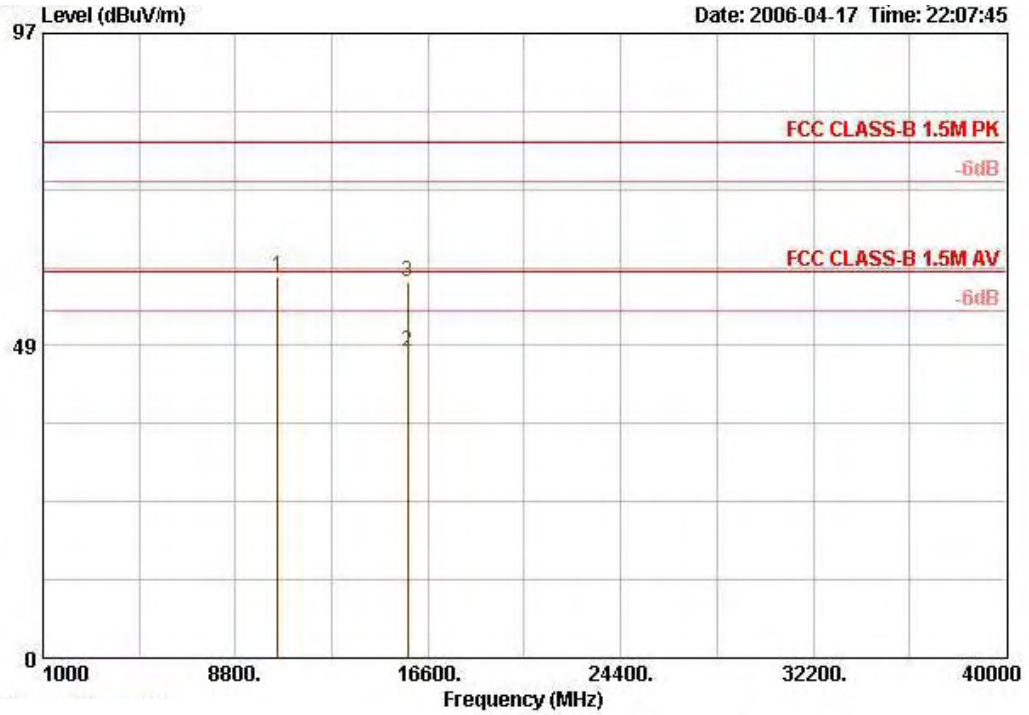
Vertical



	Freq	Level	Over Limit	Limit	Antenna Line 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	10520.640	64.36			39.49	5.93	35.40	54.34	PEAK	100	277
2	15779.400	53.43	-6.57	60.00	37.81	9.45	35.53	41.68	AVERAGE	106	242
3	15779.400	65.29	-14.71	80.00	37.81	9.45	35.53	53.55	PEAK	106	242

Note: Item 1 is on un-restricted band, so the limit is the EIRP of -27dBm/MHz (74.25 dBuV/m at 1.5m).

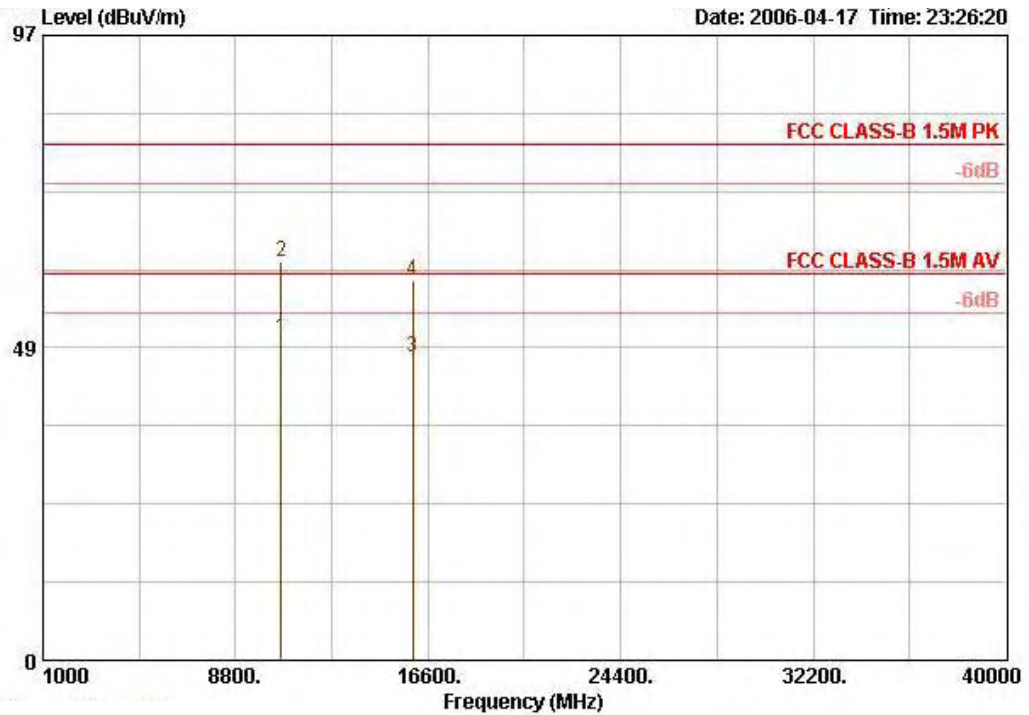
Horizontal



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dBuV	cm	deg			
1	10522.120	59.09	-20.91	80.00	39.49	5.93	35.40	49.07	PEAK	118	245
2	15779.400	47.57	-12.43	60.00	37.81	9.45	35.53	35.83	AVERAGE	114	235
3	15779.400	58.54	-21.46	80.00	37.81	9.45	35.53	46.80	PEAK	114	235

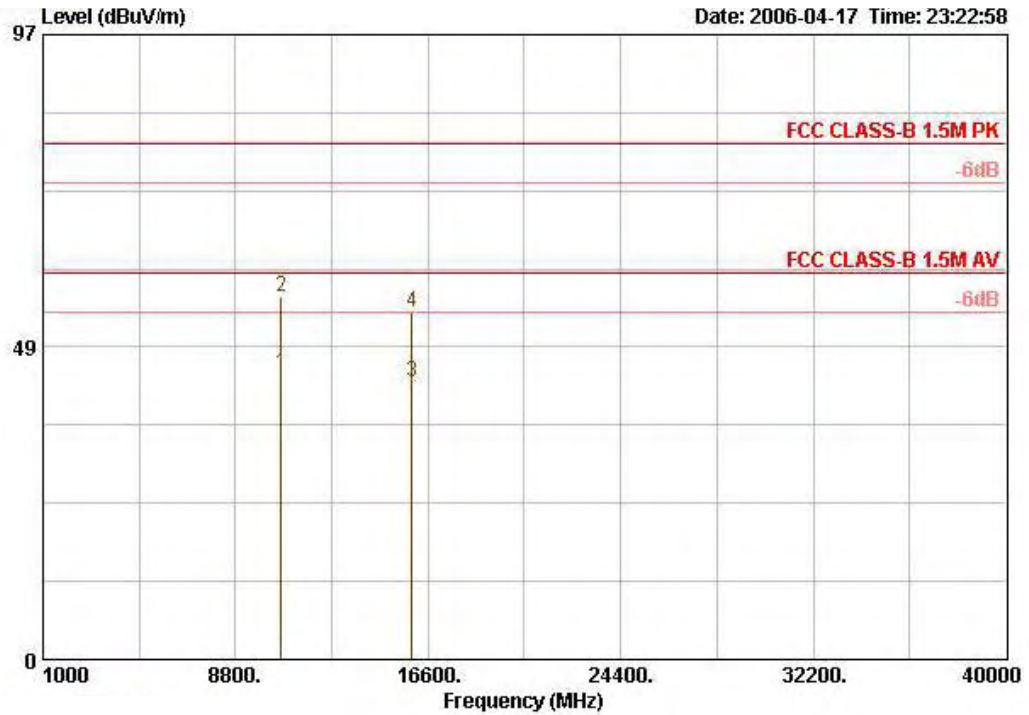
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 64 / Ant. 5

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dB	dBuV		cm	deg
1	10639.600	49.94	-10.06	60.00	39.42	6.03	35.32	39.81	AVERAGE		113	278
2	10639.600	61.87	-18.13	80.00	39.42	6.03	35.32	51.74	PEAK		113	278
3	15960.920	46.98	-13.02	60.00	37.55	9.62	35.42	35.23	AVERAGE		103	239
4	15960.920	58.87	-21.13	80.00	37.55	9.62	35.42	47.12	PEAK		103	239

Horizontal

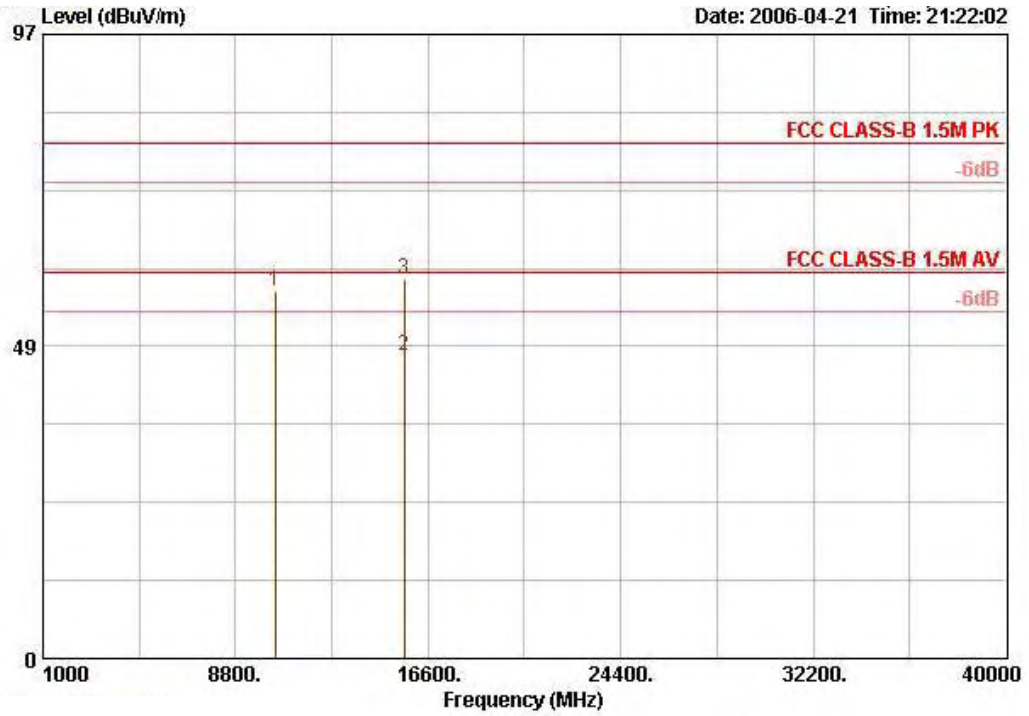


	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dB/m	dB	dB	dB	dBUV		cm	deg
1	10638.720	44.42	-15.58	60.00	39.42	6.03	35.32	34.29	AVERAGE		104	309
2	10638.720	56.17	-23.83	80.00	39.42	6.03	35.32	46.04	PEAK		104	309
3	15956.320	43.12	-16.88	60.00	37.55	9.58	35.42	31.40	AVERAGE		100	0
4	15956.320	53.95	-26.05	80.00	37.55	9.58	35.42	42.24	PEAK		100	0



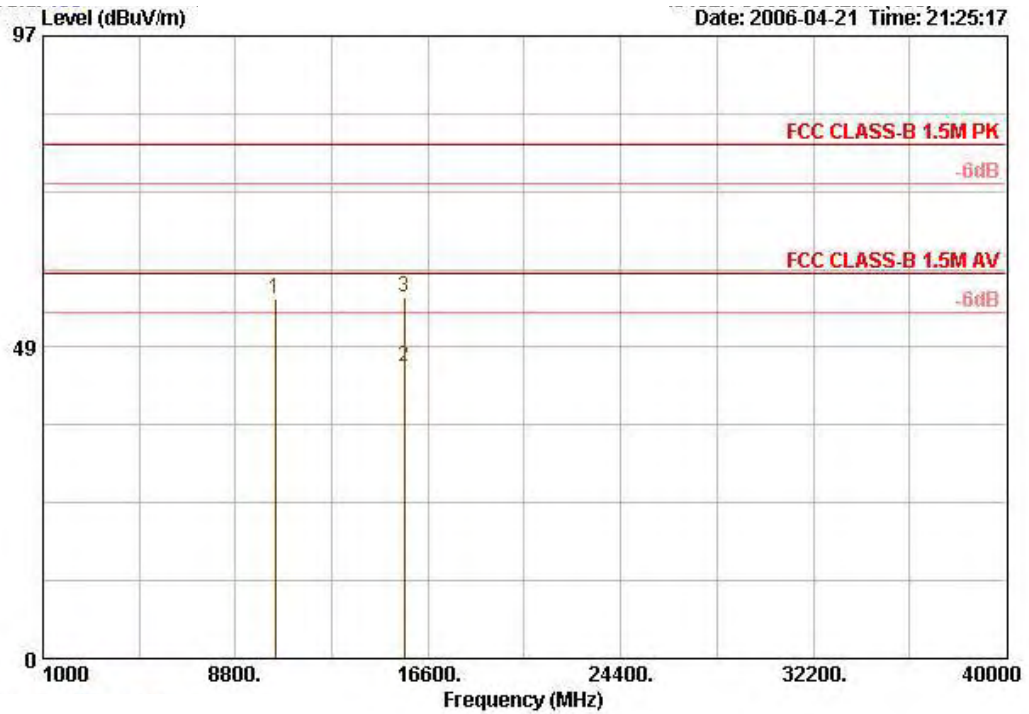
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 42 / Ant. 5

Vertical



	Freq	Level	Over Limit	Antenna 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	10420.360	56.99	-23.01	80.00	39.40	5.86	35.50	47.23	PEAK	100	248
2	15628.520	47.16	-12.84	60.00	38.01	9.32	35.62	35.45	AVERAGE	106	247
3	15628.520	58.82	-21.18	80.00	38.01	9.32	35.62	47.11	PEAK	106	247

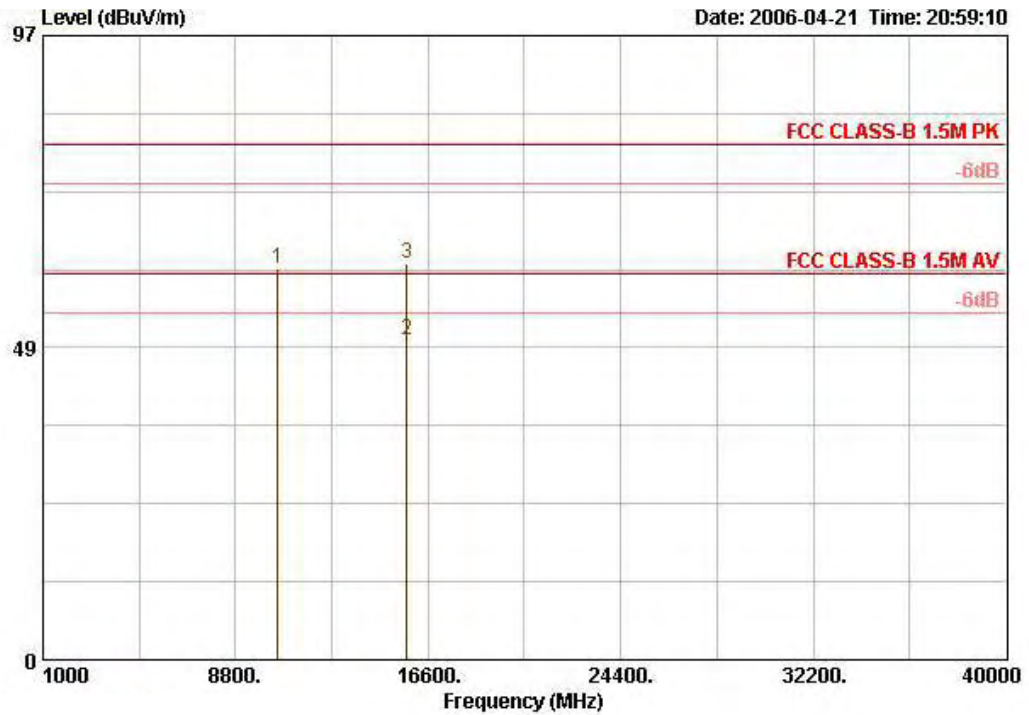
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	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	10417.000	56.11	-23.89	80.00	39.40		5.83	35.50	46.38	PEAK	119	212
2	15628.360	45.44	-14.56	60.00	38.03		9.32	35.62	33.71	AVERAGE	117	240
3	15628.360	56.20	-23.80	80.00	38.03		9.32	35.62	44.47	PEAK	117	240

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 50 / Ant. 5

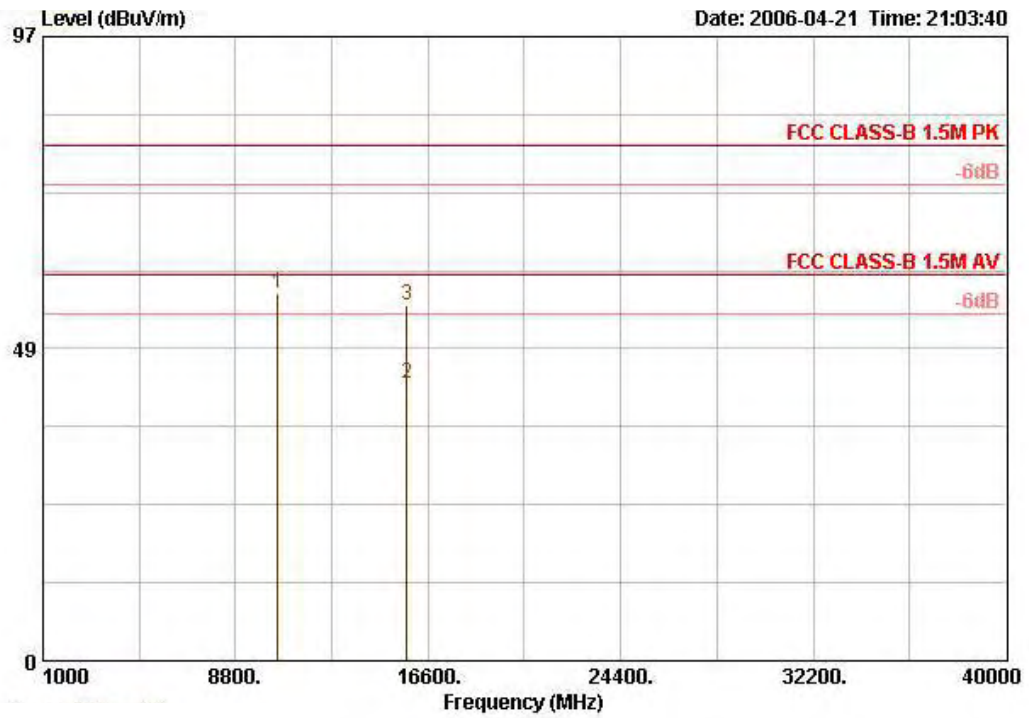
Vertical



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss Factor	Preamp	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	10500.640	60.69			39.50	5.93	35.40	50.66	PEAK	100	277
2	15748.000	49.62	-10.38	60.00	37.84	9.42	35.56	37.91	AVERAGE	104	242
3	15748.000	61.54	-18.46	80.00	37.84	9.42	35.56	49.84	PEAK	104	242

Note: Item 1 is on un-restricted band, so the limit is the EIRP of -27dBm/MHz (74.25 dBuV/m at 1.5m).

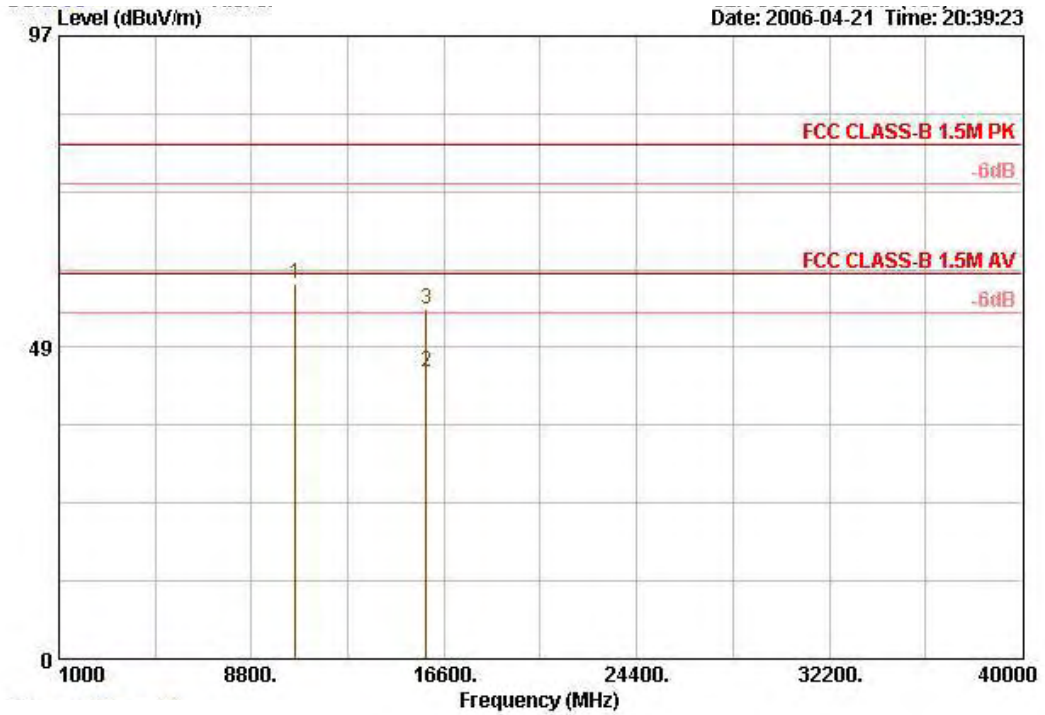
Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	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	10496.440	56.97	-23.03	80.00	39.50	5.90	35.43	46.99	PEAK		124	242
2	15745.120	43.05	-16.95	60.00	37.86	9.42	35.56	31.33	AVERAGE		110	180
3	15745.120	55.15	-24.85	80.00	37.86	9.42	35.56	43.42	PEAK		110	180

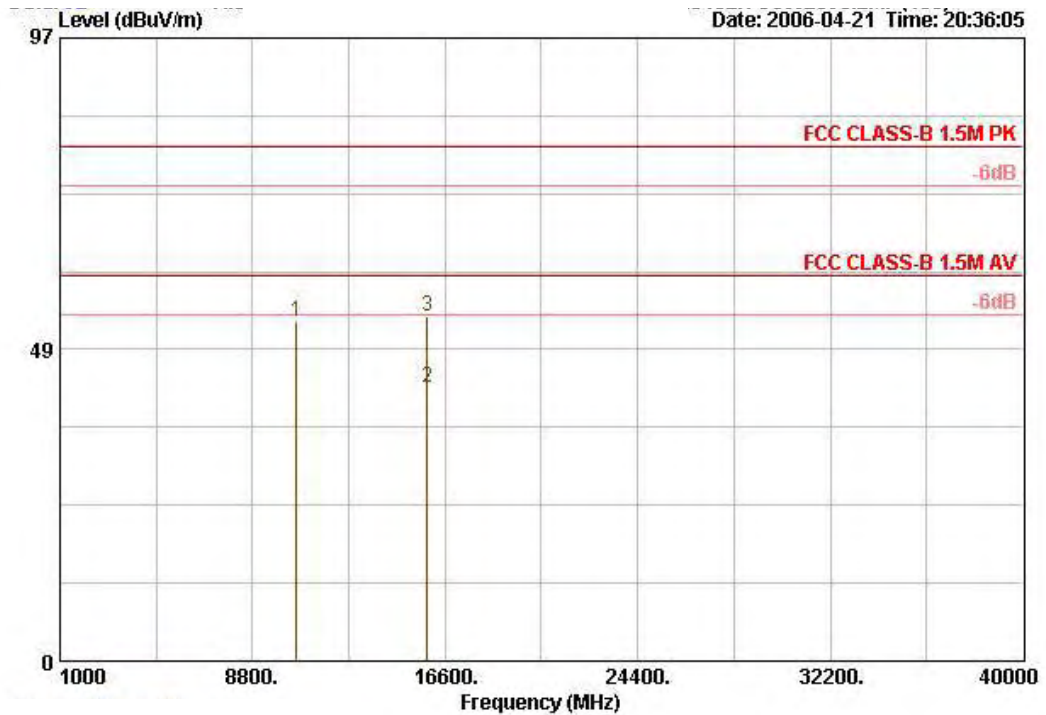
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 58 / Ant. 5

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	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	10574.920	58.37	-21.63	80.00	39.46	6.00	35.37	48.28	PEAK	118	239
2	15867.120	44.73	-15.27	60.00	37.67	9.52	35.48	33.02	AVERAGE	105	241
3	15867.120	54.48	-25.52	80.00	37.67	9.52	35.48	42.77	PEAK	105	241

Horizontal



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos			
MHz	dBUV/m	dB	dBUV/m	dB/m	dB	dB	cm	deg			
1	10583.960	52.90	-27.10	80.00	39.45	6.00	35.35	42.80	PEAK	100	-54
2	15866.280	42.61	-17.39	60.00	37.69	9.52	35.48	30.88	AVERAGE	100	360
3	15866.280	53.59	-26.41	80.00	37.69	9.52	35.48	41.85	PEAK	100	360

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.

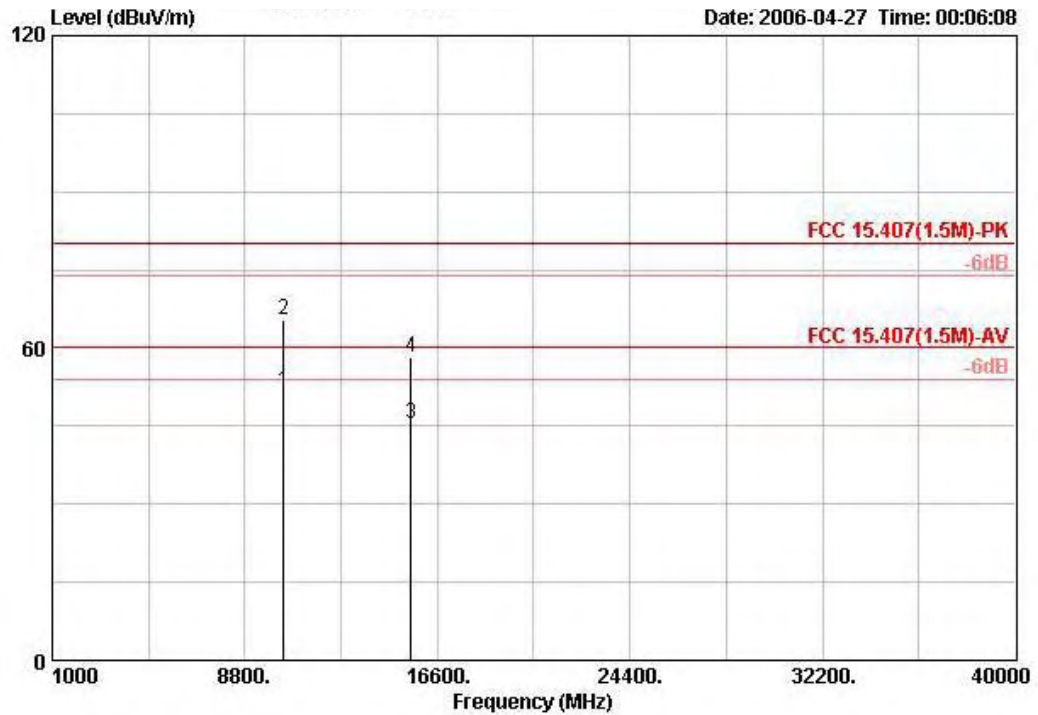
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

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

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

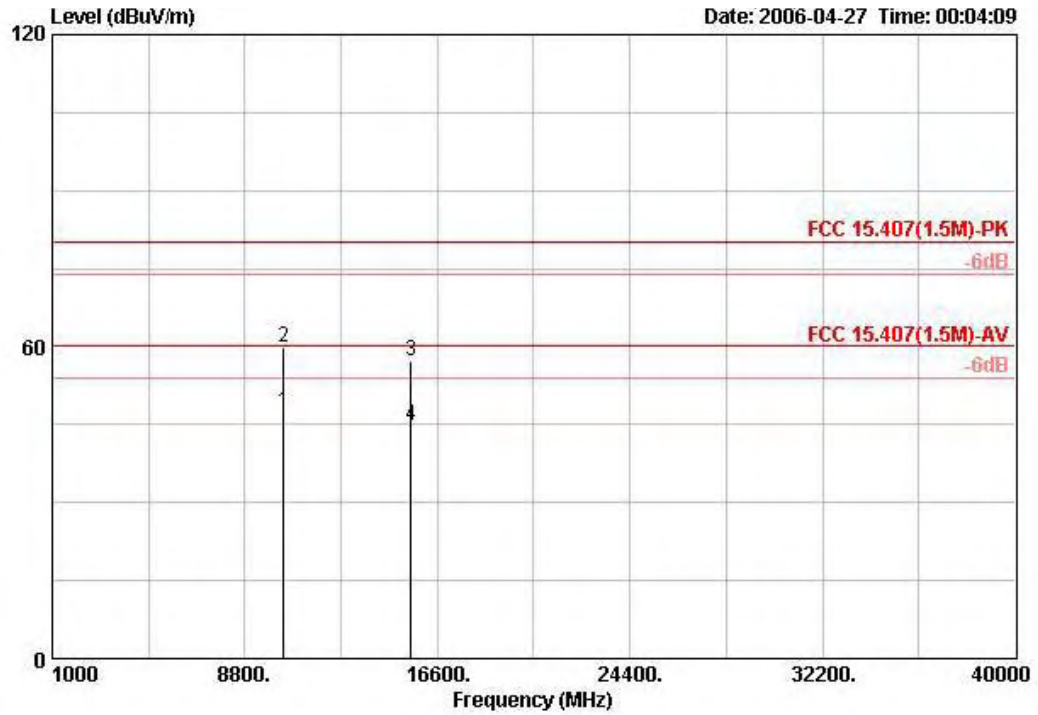
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 36 / Ant. 6

Vertical



	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	10360.180	51.81	-8.19	60.00	40.73	38.53	7.67	35.12	AVERAGE	VERTICAL	3
2	10360.760	65.54	-14.46	80.00	54.46	38.53	7.67	35.12	PEAK	VERTICAL	3
3	15535.880	45.41	-14.59	60.00	34.20	38.06	8.43	35.28	AVERAGE	VERTICAL	3
4	15541.760	58.23	-21.77	80.00	47.02	38.06	8.43	35.28	PEAK	VERTICAL	3

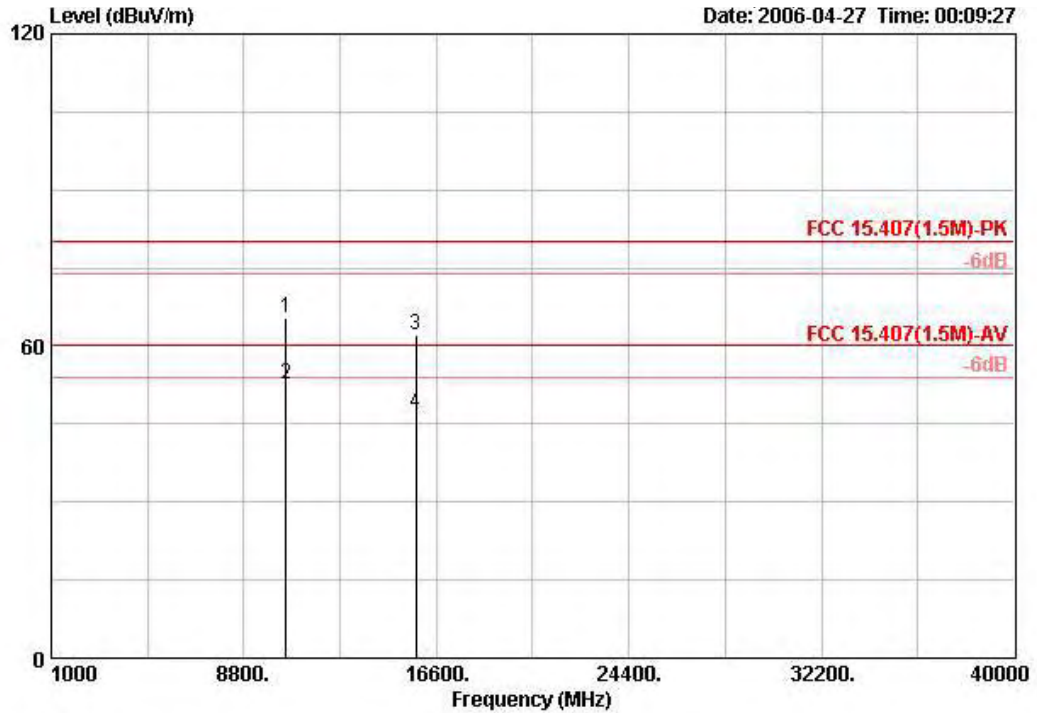
Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1	10361.440	47.48	-12.52	60.00	36.39	38.53	7.67	35.12	AVERAGE	HORIZONTAL	3
2	10362.130	59.68	-20.32	80.00	48.60	38.53	7.67	35.12	PEAK	HORIZONTAL	3
3	15536.800	57.38	-22.62	80.00	46.17	38.06	8.43	35.28	PEAK	HORIZONTAL	3
4	15537.220	44.90	-15.10	60.00	33.70	38.06	8.43	35.28	AVERAGE	HORIZONTAL	3

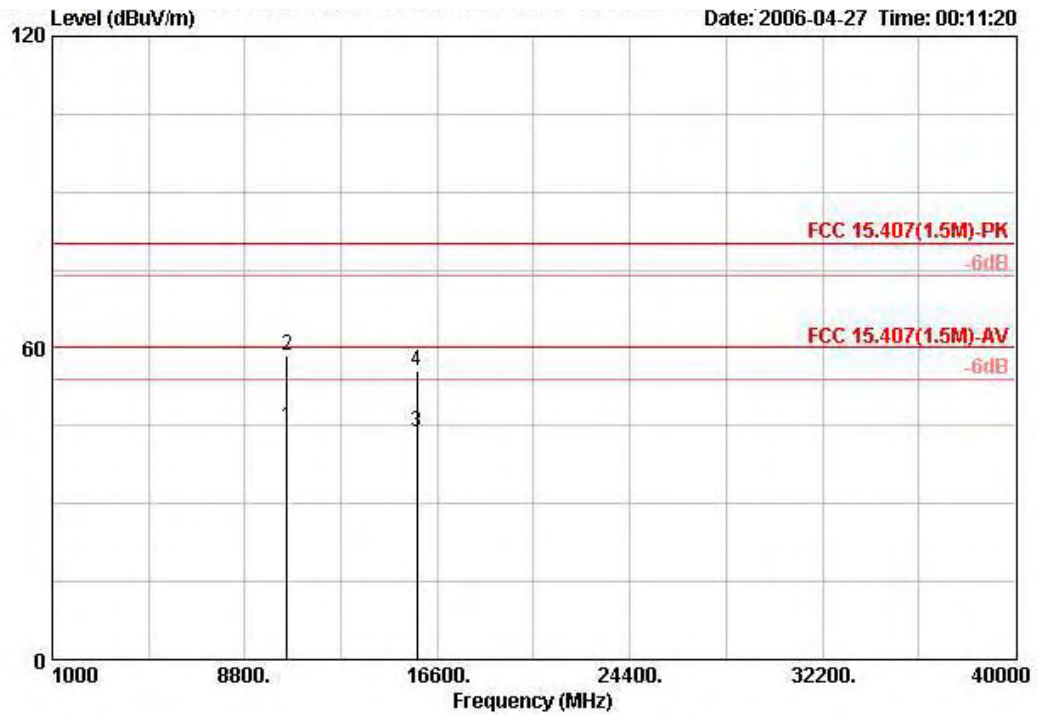
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 52 / Ant. 6

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1	10516.600	65.55	-14.45	80.00	54.61	38.11	7.75	34.93	PEAK	VERTICAL	3
2	10519.380	52.67	-7.33	60.00	41.74	38.11	7.75	34.93	AVERAGE	VERTICAL	3
3	15778.500	62.07	-17.93	80.00	51.17	37.77	8.50	35.37	PEAK	VERTICAL	3
4	15780.660	46.97	-13.03	60.00	36.08	37.77	8.50	35.37	AVERAGE	VERTICAL	3

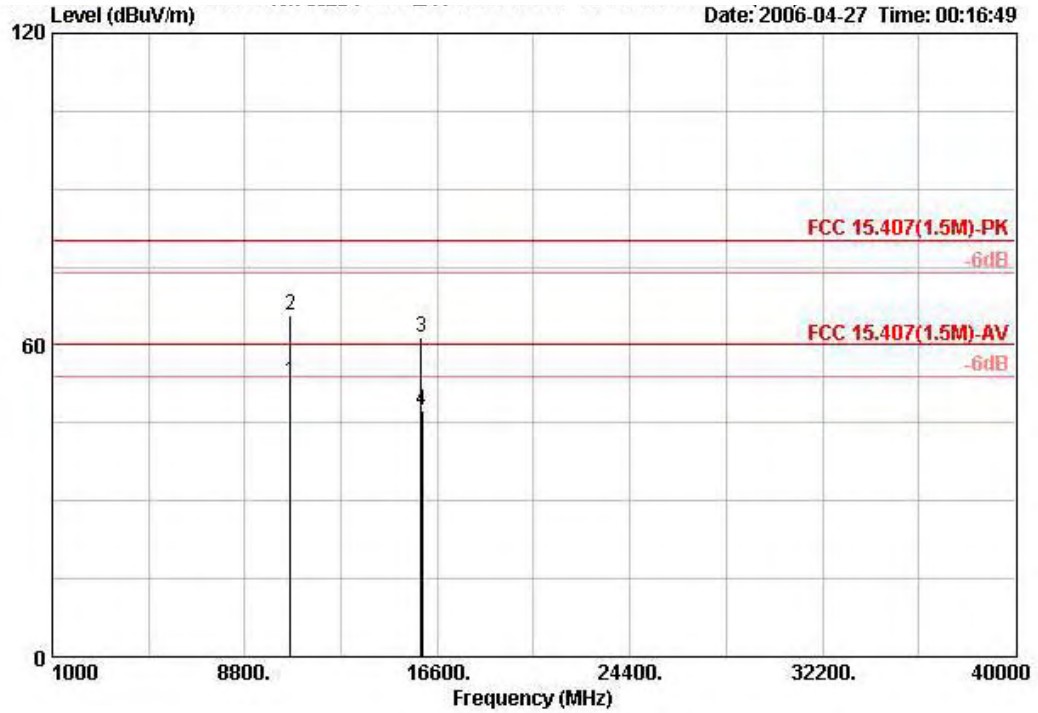
Horizontal



	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	10521.300	44.77	-15.23	60.00	33.84	38.11	7.75	34.93	AVERAGE	HORIZONTAL	3
2	10522.820	58.46	-21.54	80.00	47.52	38.11	7.75	34.93	PEAK	HORIZONTAL	3
3	15777.240	43.85	-16.15	60.00	32.95	37.77	8.50	35.36	AVERAGE	HORIZONTAL	3
4	15783.480	55.64	-24.36	80.00	44.77	37.75	8.50	35.37	PEAK	HORIZONTAL	3

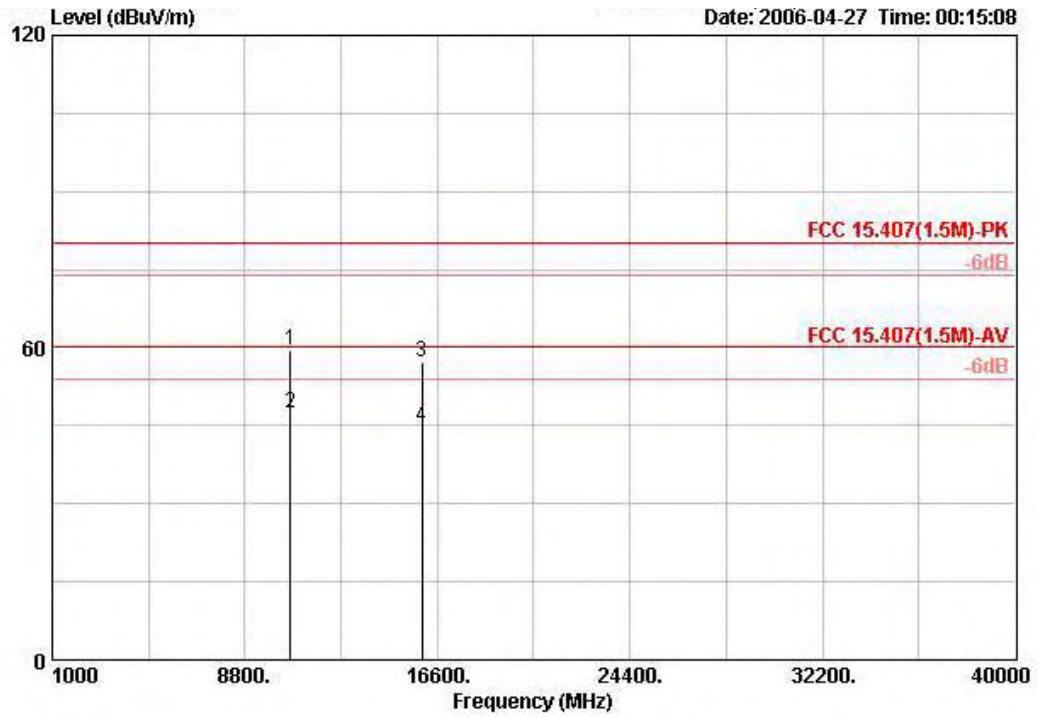
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 64 / Ant. 6

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Pol/Phase	Distance	
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		m	
1	10640.540	52.97	-7.03	60.00	41.90	38.21	7.74	34.88	AVERAGE	VERTICAL	3
2	10640.960	65.80	-14.20	80.00	54.73	38.21	7.74	34.88	PEAK	VERTICAL	3
3	15955.060	61.32	-18.68	80.00	50.67	37.54	8.54	35.43	PEAK	VERTICAL	3
4	15962.440	47.51	-12.49	60.00	36.85	37.54	8.55	35.44	AVERAGE	VERTICAL	3

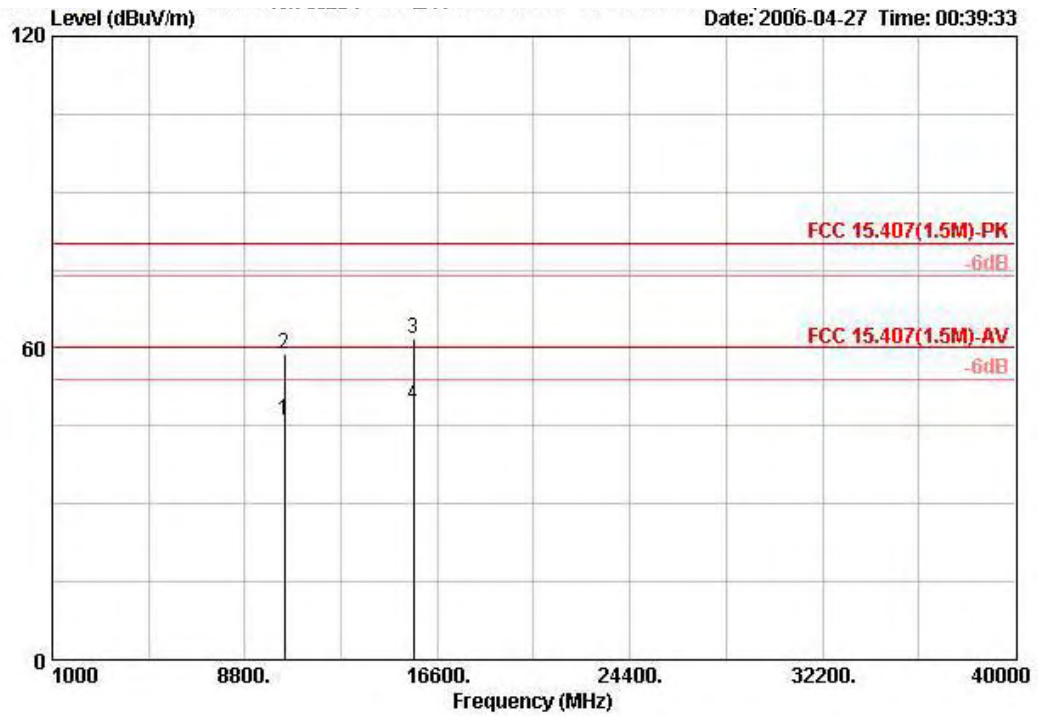
Horizontal



	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	10640.420	59.66	-20.34	80.00	48.59	38.21	7.74	34.88	PEAK	HORIZONTAL	3
2	10640.440	47.29	-12.71	60.00	36.22	38.21	7.74	34.88	AVERAGE	HORIZONTAL	3
3	15960.780	57.37	-22.63	80.00	46.71	37.54	8.55	35.44	PEAK	HORIZONTAL	3
4	15964.220	44.91	-15.09	60.00	34.25	37.54	8.55	35.44	AVERAGE	HORIZONTAL	3

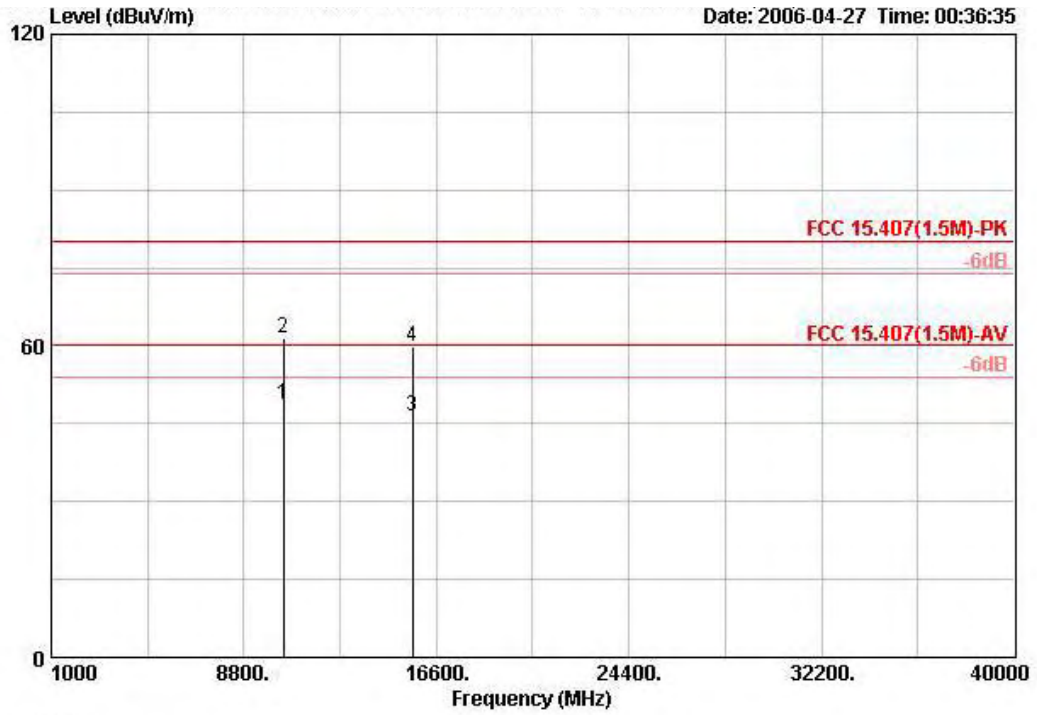
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 42 / Ant. 6

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1	10416.820	46.08	-13.92	60.00	35.05	38.37	7.71	35.05	AVERAGE	VERTICAL	3
2	10416.820	58.90	-21.10	80.00	47.87	38.37	7.71	35.05	PEAK	VERTICAL	3
3	15632.700	61.81	-18.19	80.00	50.74	37.93	8.45	35.32	PEAK	VERTICAL	3
4	15632.700	48.93	-11.07	60.00	37.86	37.93	8.45	35.32	AVERAGE	VERTICAL	3

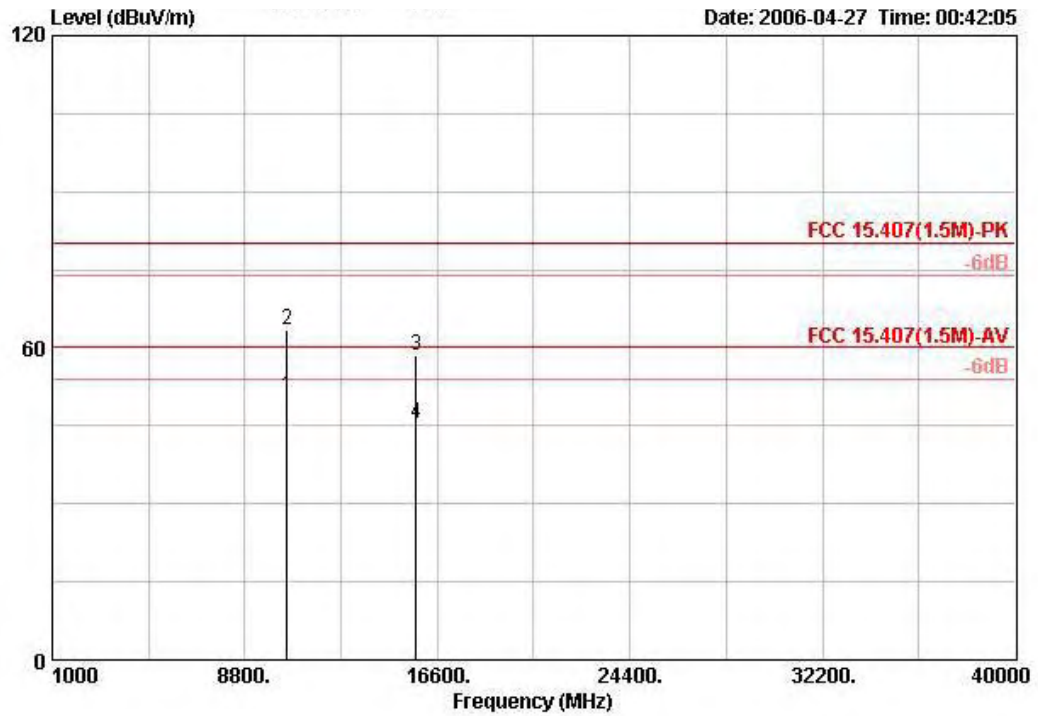
Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1	10418.260	48.88	-11.12	60.00	37.85	38.37	7.71	35.05	AVERAGE	HORIZONTAL	3
2	10420.920	61.56	-18.44	80.00	50.54	38.37	7.71	35.05	PEAK	HORIZONTAL	3
3	15629.320	46.48	-13.52	60.00	35.41	37.93	8.45	35.32	AVERAGE	HORIZONTAL	3
4	15632.700	59.78	-20.22	80.00	48.71	37.93	8.45	35.32	PEAK	HORIZONTAL	3

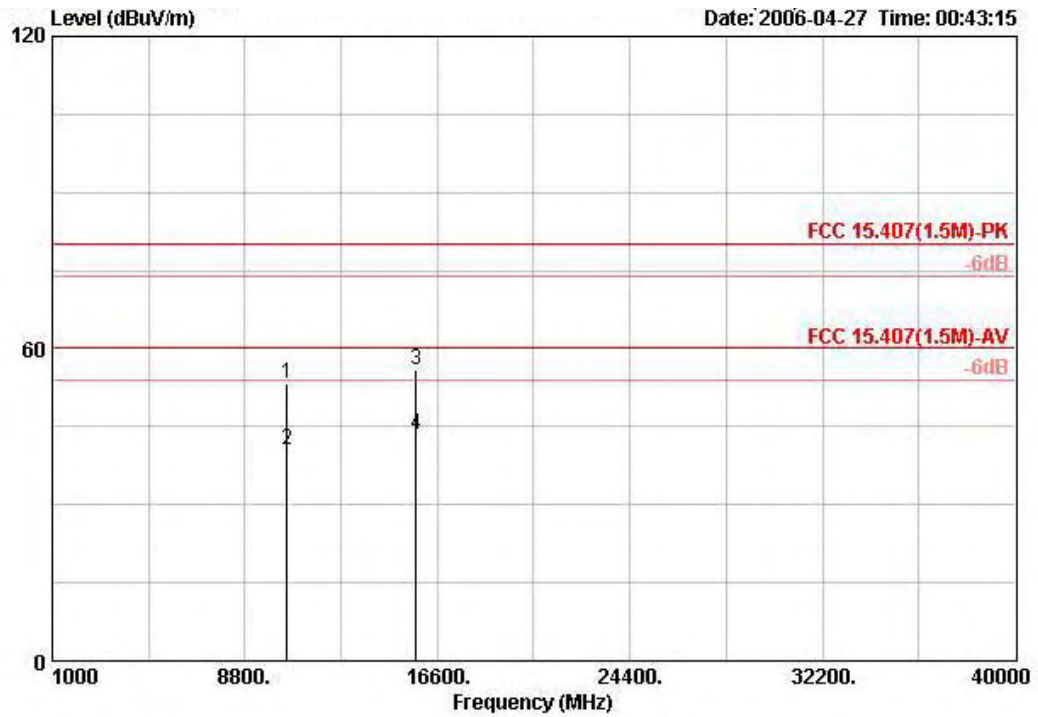
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 50 / Ant. 6

Vertical



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor			m
1	10498.710	50.82	-9.18	60.00	39.93	38.10	7.75	34.96	AVERAGE	VERTICAL	3
2	10501.910	63.32	-16.68	80.00	52.40	38.10	7.75	34.93	PEAK	VERTICAL	3
3	15747.780	58.69	-21.31	80.00	47.77	37.79	8.48	35.35	PEAK	VERTICAL	3
4	15751.320	45.35	-14.65	60.00	34.43	37.79	8.48	35.35	AVERAGE	VERTICAL	3

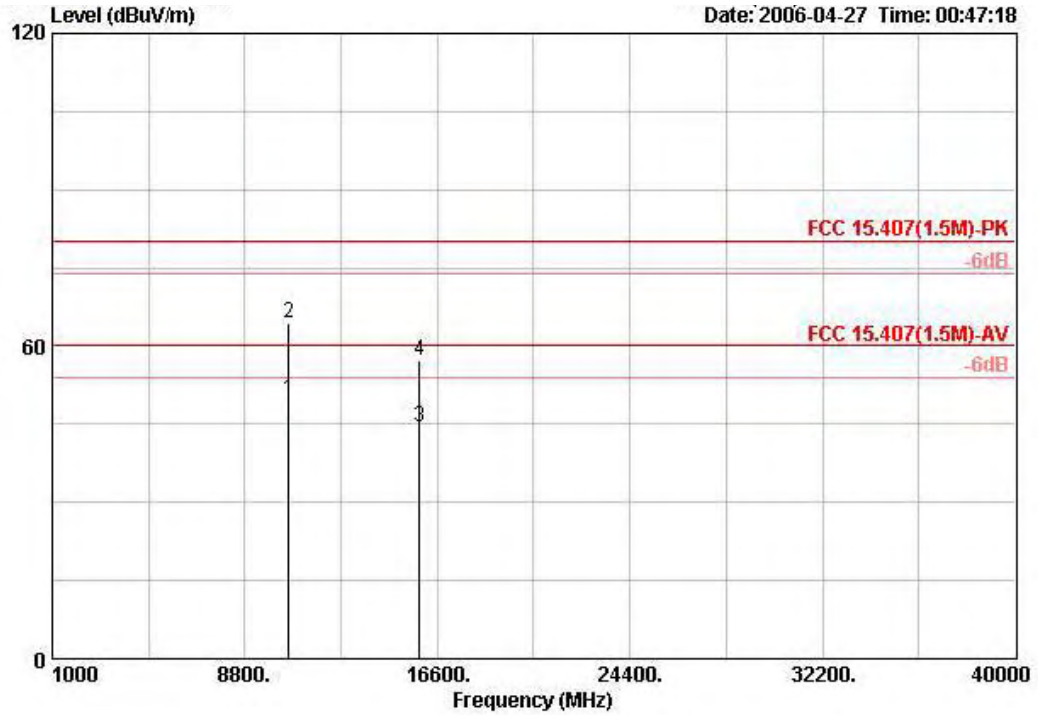
Horizontal



	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	10499.460	53.27	-26.73	80.00	42.34	38.10	7.75	34.93	PEAK	HORIZONTAL	3
2	10501.930	40.45	-19.55	60.00	29.53	38.10	7.75	34.93	AVERAGE	HORIZONTAL	3
3	15751.200	55.94	-24.06	80.00	45.02	37.79	8.48	35.35	PEAK	HORIZONTAL	3
4	15752.110	43.39	-16.61	60.00	32.48	37.79	8.48	35.36	AVERAGE	HORIZONTAL	3

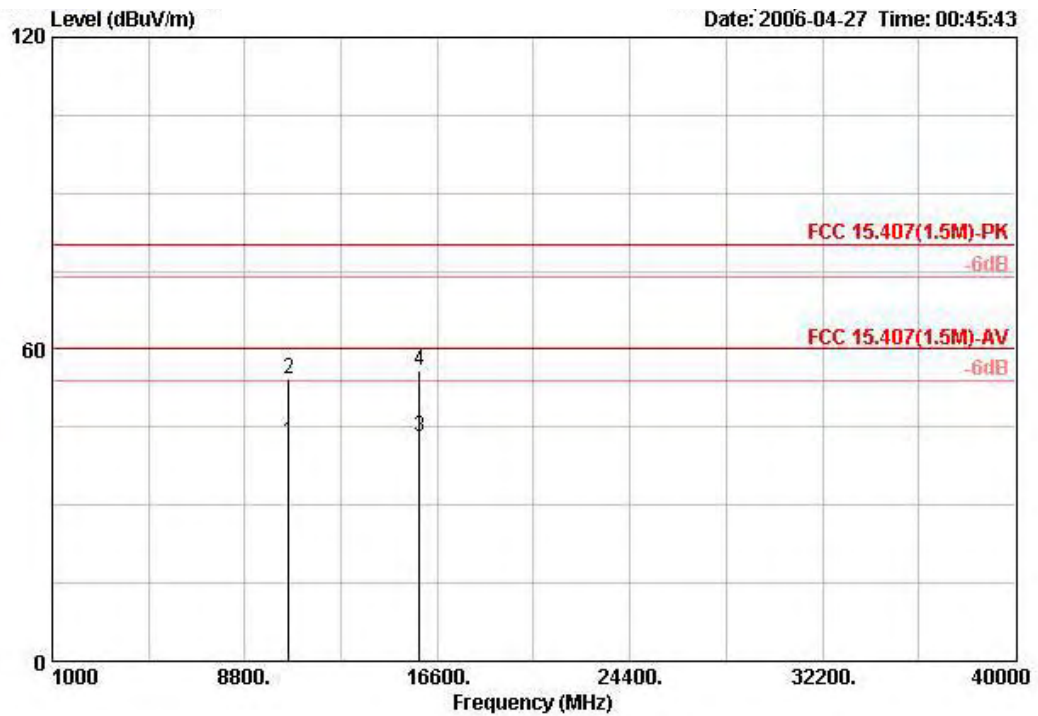
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 58 / Ant. 6

Vertical



	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	10579.030	49.73	-10.27	60.00	38.73	38.16	7.75	34.90	AVERAGE	VERTICAL	3
2	10581.210	64.26	-15.74	80.00	53.25	38.17	7.75	34.90	PEAK	VERTICAL	3
3	15868.550	44.55	-15.45	60.00	33.79	37.64	8.52	35.40	AVERAGE	VERTICAL	3
4	15868.830	57.17	-22.83	80.00	46.41	37.64	8.52	35.40	PEAK	VERTICAL	3

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	10580.040	42.08	-17.92	60.00	31.07	38.17	7.75	34.90	AVERAGE	HORIZONTAL	3
2	10582.030	54.28	-25.72	80.00	43.27	38.17	7.75	34.90	PEAK	HORIZONTAL	3
3	15867.680	43.04	-16.96	60.00	32.28	37.64	8.52	35.40	AVERAGE	HORIZONTAL	3
4	15872.050	56.02	-23.98	80.00	45.26	37.64	8.52	35.40	PEAK	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.

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

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

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

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, 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

4.7.2. 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)	1 MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	1 MHz /1 MHz for Peak

4.7.3. Test Procedures

1. The test procedure is the same as section 4.6.3, 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.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

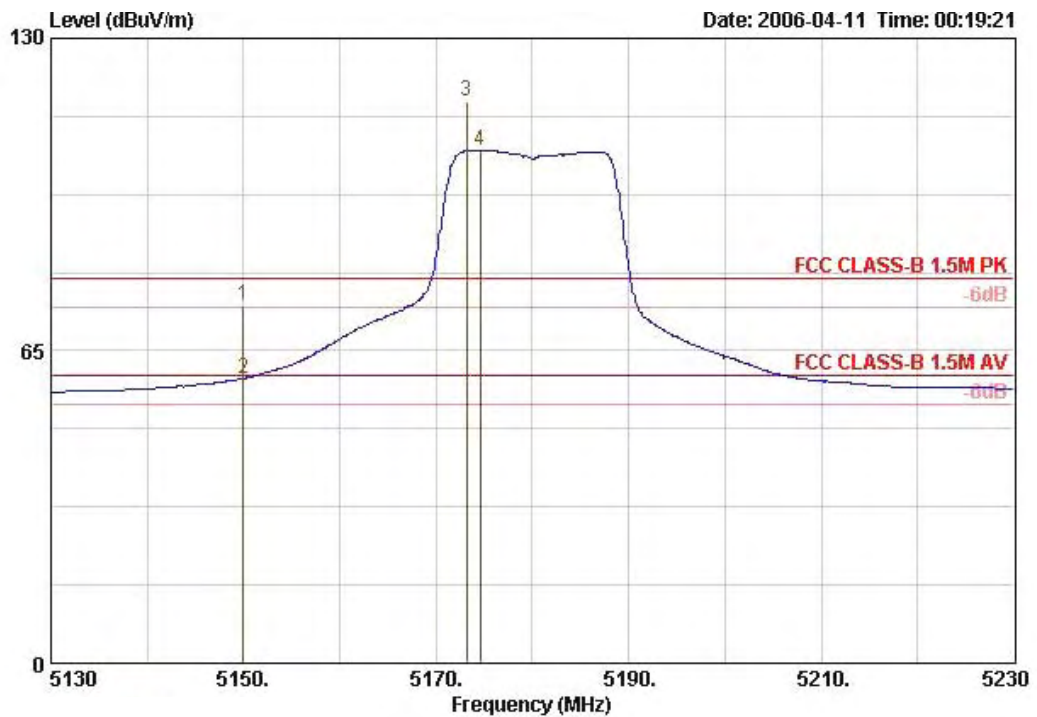
4.7.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 36, 64 / Ant. 1

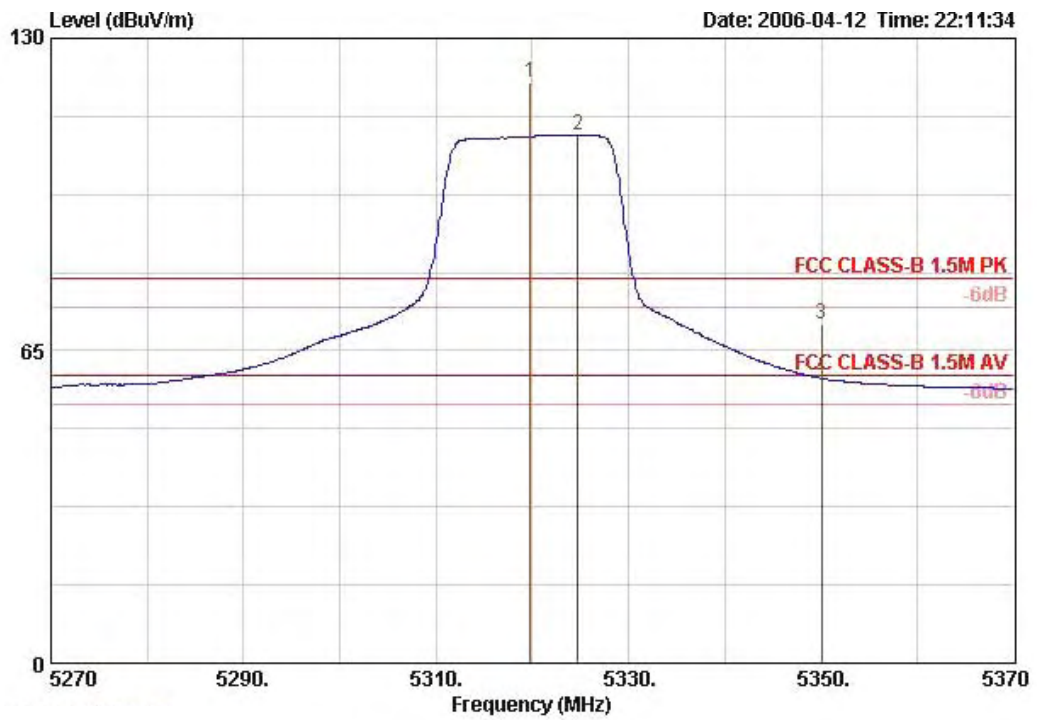
Channel 36



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table		
Freq	Level	Limit	Line Factor	Loss	Factor	Level	Pos	Pos		
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg		
1	5150.000	74.29	-5.71	80.00	33.84	4.88	0.00	35.57 PEAK	144	228
2	5150.000	59.20	-0.80	60.00	33.84	4.88	0.00	20.49 AVERAGE	144	228
3 @	5173.200	116.75			33.87	4.92	0.00	77.96 PEAK	144	228
4 @	5174.600	106.68			33.89	4.92	0.00	67.87 Average	---	---

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 64

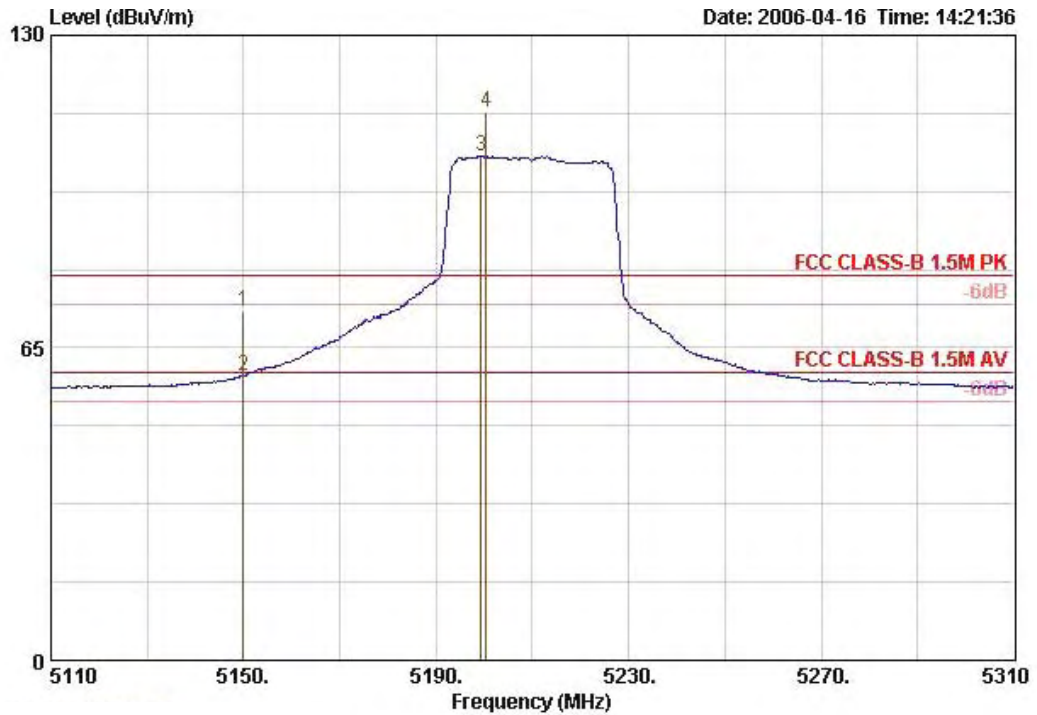


	Freq	Level	Over Limit	Limit	Antenna Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dB	dBuV		cm	deg
1 @	5319.800	120.85			34.11	5.07	0.00	81.67	PEAK		141	212
2 @	5324.700	109.90			34.11	5.07	0.00	70.72	Average		---	---
3 @	5350.000	70.64	-9.36	80.00	34.16	5.11	0.00	31.36	PEAK		141	212
4 @	5350.000	59.32	-0.68	60.00	34.16	5.11	0.00	20.05	AVERAGE		141	212

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 42, 58 / Ant. 1

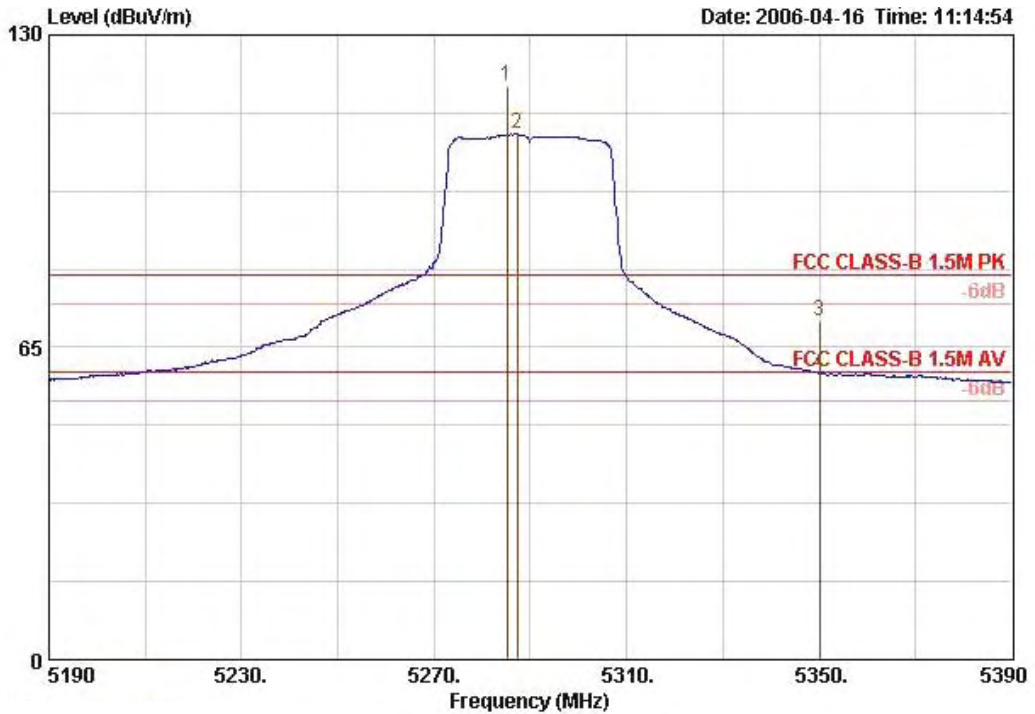
Turbo Channel 42



	Freq	Level	Over Limit	Limit	Antenna Line 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	5150.000	72.47	-7.53	80.00	33.84	4.88	0.00	33.75	PEAK	141	227
2 @	5150.000	59.11	-0.89	60.00	33.84	4.88	0.00	20.40	AVERAGE	8995	227
3 @	5199.400	104.88			33.92	4.96	0.00	66.00	Average	---	---
4 @	5200.400	114.07			33.92	4.96	0.00	75.20	PEAK	141	227

Item 3, 4 are the fundamental frequency at 5210 MHz.

Turbo Channel 58



	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table
Freq	Level	Limit	Line	Loss	Factor	Level	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg
1 @	5285.200	119.22		34.05	5.03	0.00	80.13	208
2 @	5287.200	109.35		34.05	5.03	0.00	70.26	---
3 @	5350.000	70.35	-9.65	80.00	34.16	5.11	0.00	31.08
4 @	5350.000	59.55	-0.45	60.00	34.16	5.11	0.00	20.28

Item 1, 2 are the fundamental frequency at 5290 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.

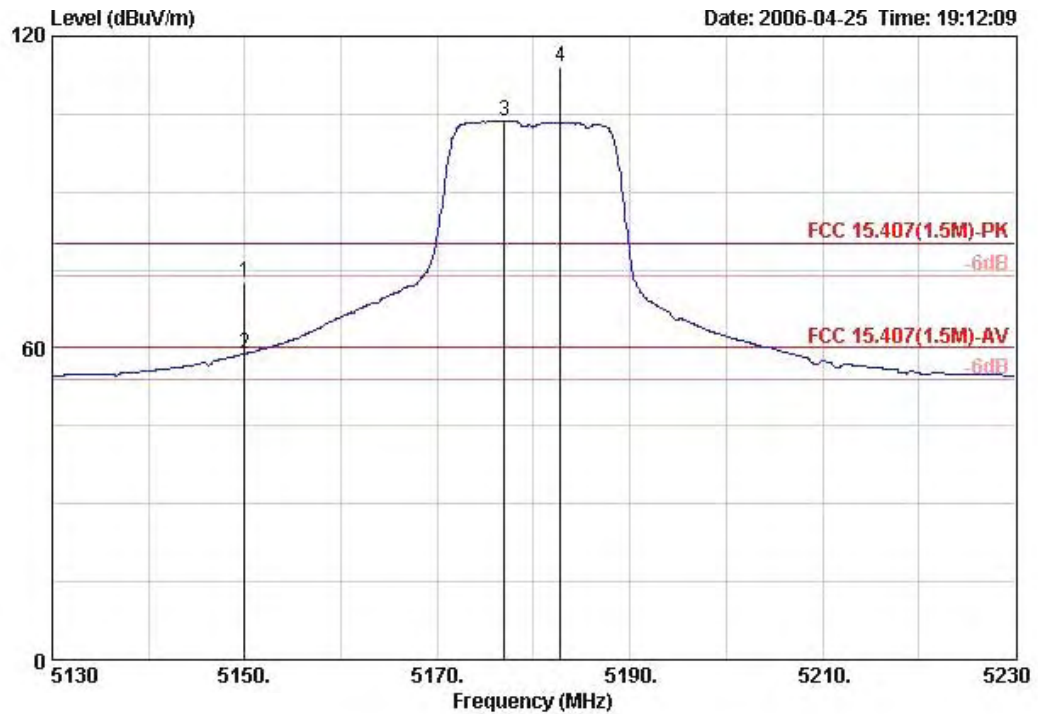
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m.

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

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

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 36, 64 / Ant. 2

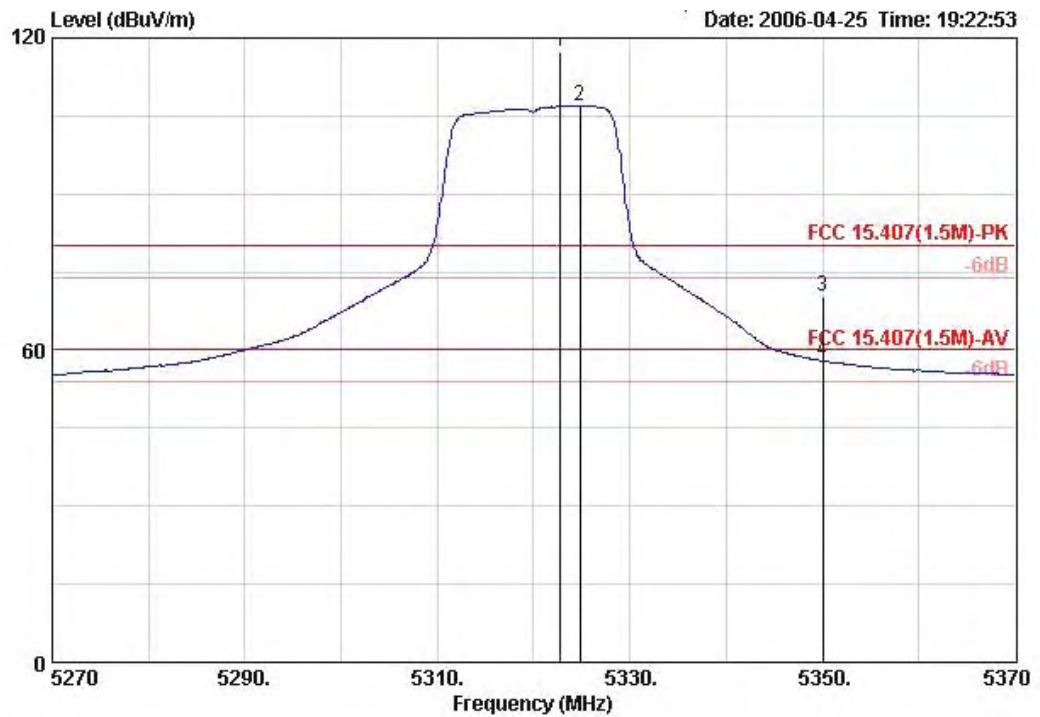
Channel 36



	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	5150.000	72.62	-7.38	80.00	34.80	33.45	4.37	0.00	PEAK	VERTICAL	3
2	5150.000	58.76	-1.24	60.00	20.95	33.45	4.37	0.00	AVERAGE	VERTICAL	3
3	5177.000	103.66			65.74	33.55	4.37	0.00	AVERAGE	VERTICAL	3
4	5182.800	114.25			76.31	33.55	4.38	0.00	PEAK	VERTICAL	3

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 64

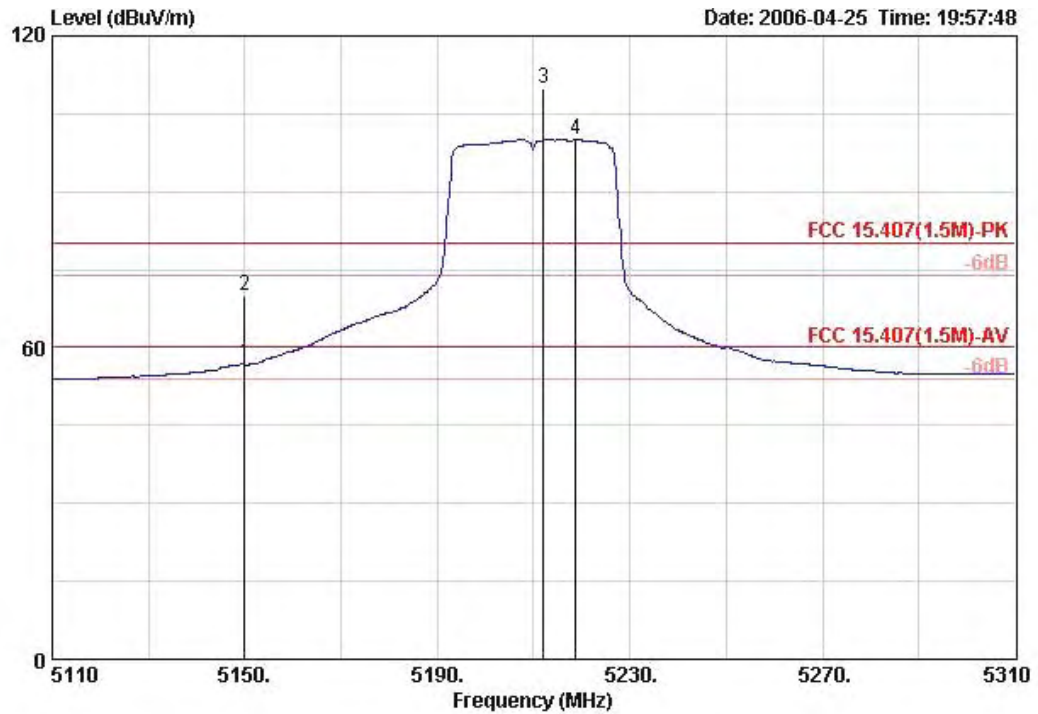


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1	5322.800	117.25			78.86	33.95	4.44	0.00	PEAK	VERTICAL	3
2	5324.800	106.82			68.44	33.95	4.44	0.00	AVERAGE	VERTICAL	3
3	5350.000	70.21	-9.79	80.00	31.70	34.05	4.45	0.00	PEAK	VERTICAL	3
4	5350.000	57.90	-2.10	60.00	19.40	34.05	4.45	0.00	AVERAGE	VERTICAL	3

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 42, 58 / Ant. 2

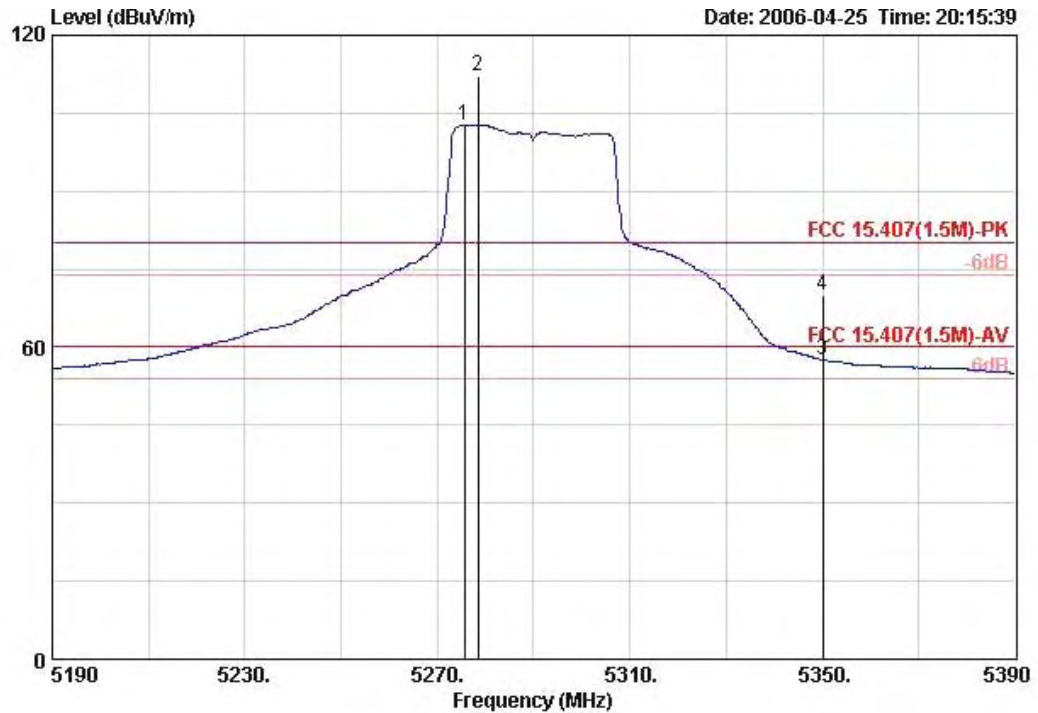
Turbo Channel 42



	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 @	5150.000	56.77	-3.23	60.00	18.95	33.45	4.37	0.00	AVERAGE	VERTICAL	3
2 @	5150.000	69.81	-10.19	80.00	32.00	33.45	4.37	0.00	PEAK	VERTICAL	3
3 @	5212.000	109.73			71.69	33.65	4.38	0.00	PEAK	VERTICAL	3
4 @	5218.800	100.01			61.96	33.65	4.40	0.00	AVERAGE	VERTICAL	3

Item 3, 4 are the fundamental frequency at 5210 MHz.

Turbo Channel 58



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	5275.600	102.76			64.49	33.85	4.42	0.00	AVERAGE	VERTICAL	3
2 @	5278.400	112.14			73.88	33.85	4.42	0.00	PEAK	VERTICAL	3
3 @	5350.000	57.60	-2.40	60.00	19.10	34.05	4.45	0.00	AVERAGE	VERTICAL	3
4 @	5350.000	70.05	-9.95	80.00	31.55	34.05	4.45	0.00	PEAK	VERTICAL	3

Item 1, 2 are the fundamental frequency at 5290 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.

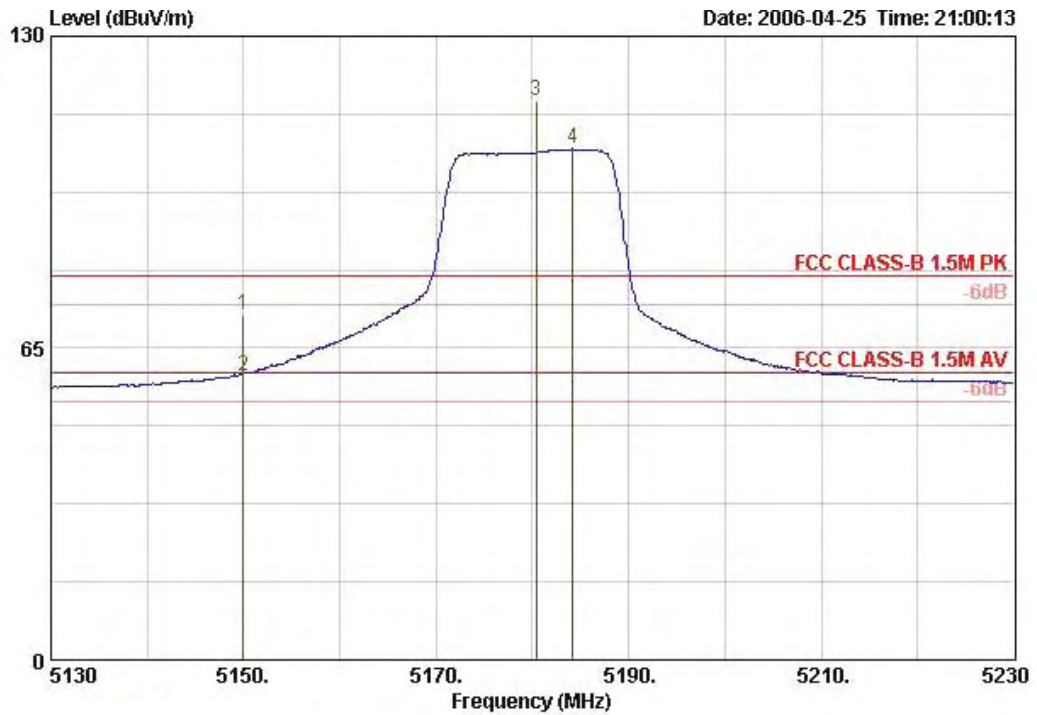
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m.

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

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

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 36, 64 / Ant.4

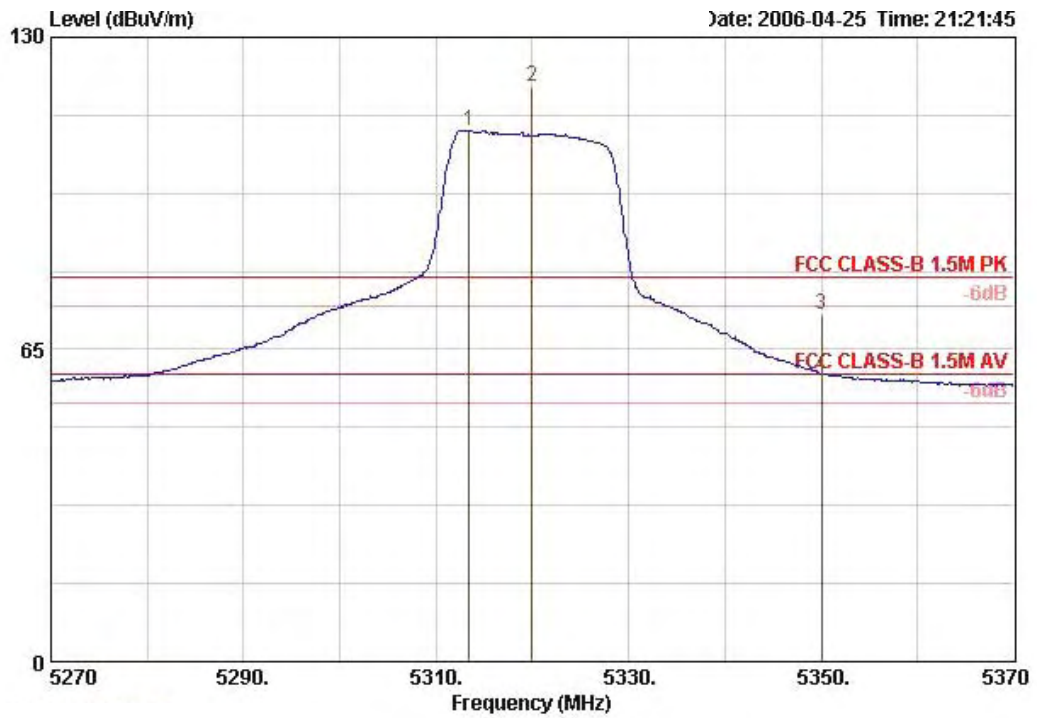
Channel 36



	Freq	Level	Over Limit	Limit	Antenna Line 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	5150.000	71.82	-8.18	80.00	33.84	4.88	0.00	33.10	PEAK	139	183
2 !	5150.000	59.26	-0.74	60.00	33.84	4.88	0.00	20.54	AVERAGE	139	183
3 @	5180.400	116.65			33.89	4.92	0.00	77.84	PEAK	139	183
4 @	5184.200	106.45			33.89	4.92	0.00	67.64	Average	---	---

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 64

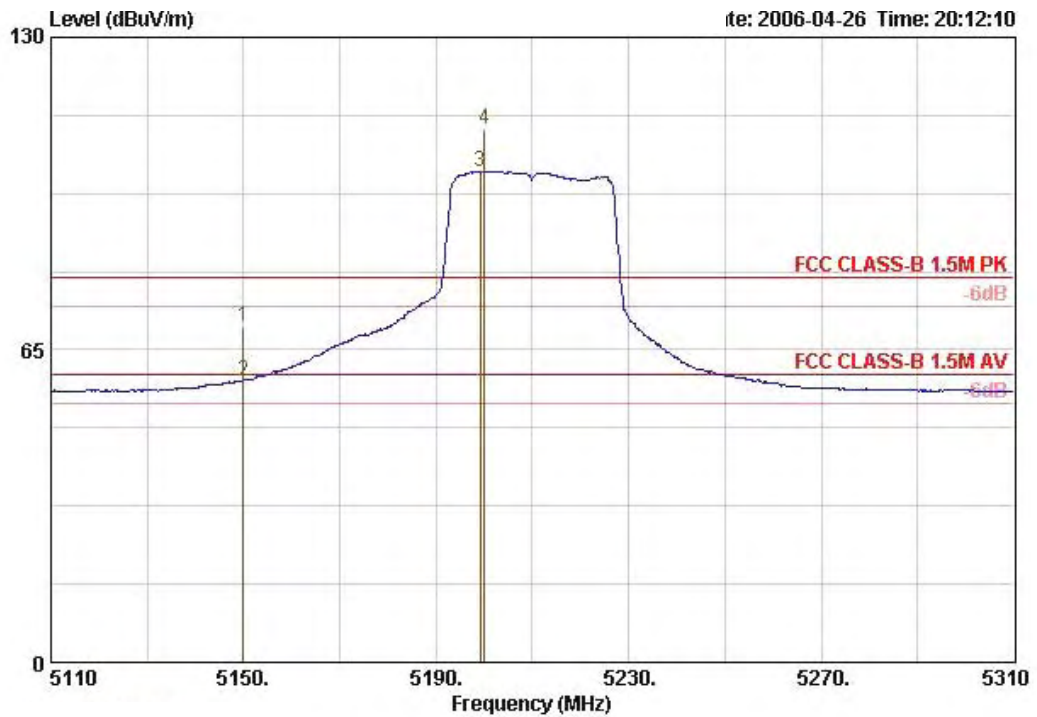


	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line Factor	Loss	Factor	Level	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dBuV	cm	deg			
1 @	5313.400	110.69		34.11	5.07	0.00	71.51	Average	---	---	
2 @	5320.000	119.72		34.11	5.07	0.00	80.54	PEAK	145	185	
3	5350.000	72.35	-7.65	80.00	34.16	5.11	0.00	33.08	PEAK	145	185
4 !	5350.000	59.60	-0.40	60.00	34.16	5.11	0.00	20.32	AVERAGE	145	185

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 42, 58 / Ant.4

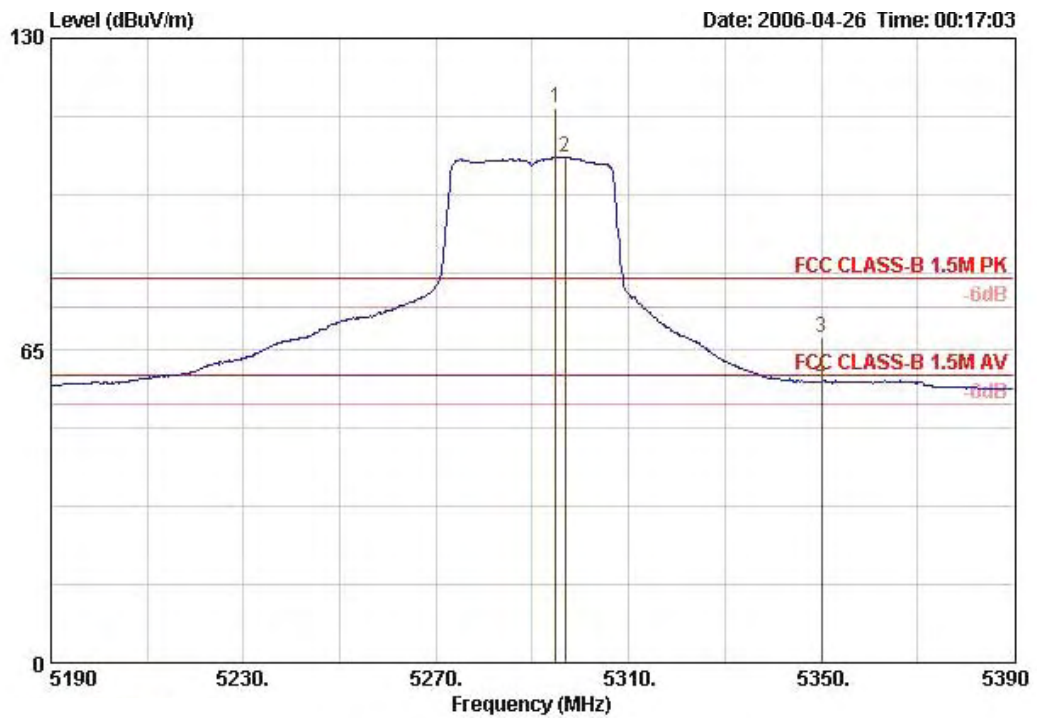
Turbo Channel 42



	Freq	Level	Over Limit	Limit	Antenna Line 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	5150.000	69.82	-10.18	80.00	33.84	4.88	0.00	31.10	PEAK	105	195
2 !	5150.000	58.44	-1.56	60.00	33.84	4.88	0.00	19.72	AVERAGE	105	195
3 @	5199.200	102.17			33.92	4.96	0.00	63.30	Average	---	---
4	5200.000	110.85			33.92	4.96	0.00	71.97	PEAK	105	195

Item 3, 4 are the fundamental frequency at 5210 MHz.

Turbo Channel 58



	Over	Limit	Antenna	Cable	Preamp	Read		Ant	Table		
Freq	Level	Limit	Line	Loss	Factor	Level	Remark	Pos	Pos		
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	cm	deg		
1 @	5294.800	115.56		34.08	5.03	0.00	76.44	PEAK	137	181	
2 @	5296.800	105.24		34.08	5.03	0.00	66.13	Average	---	---	
3	5350.000	67.70	-12.30	80.00	34.16	5.11	0.00	28.43	PEAK	137	181
4 !	5350.000	58.94	-1.06	60.00	34.16	5.11	0.00	19.67	AVERAGE	137	181

Item 1, 2 are the fundamental frequency at 5290 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 Horizontal Polarization.

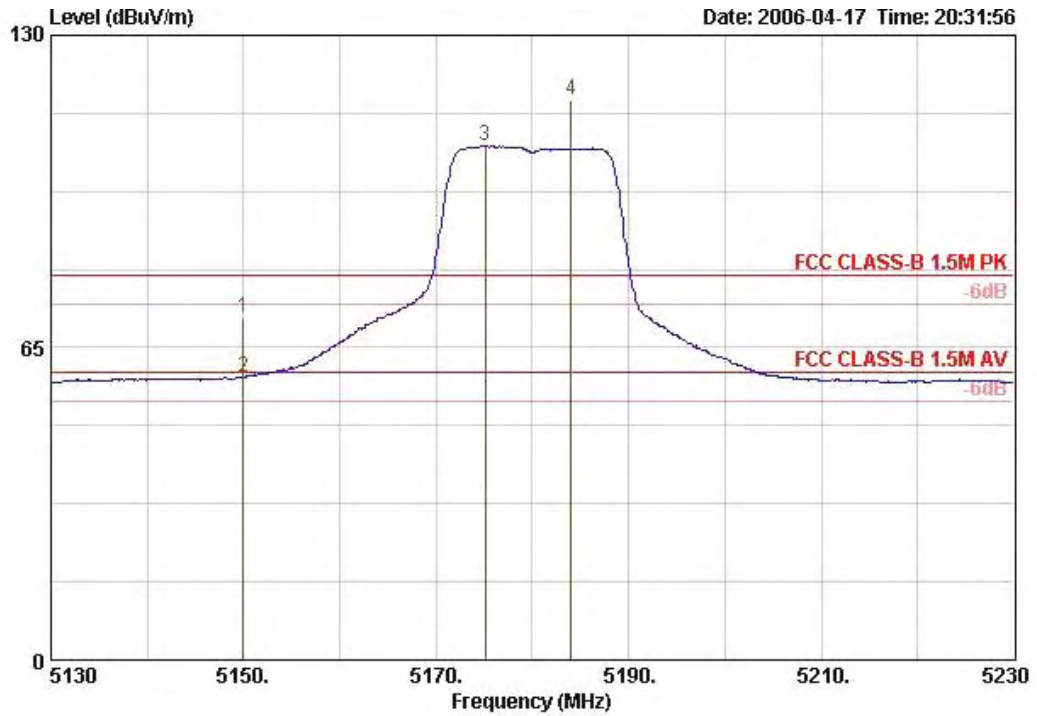
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m.

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

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

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 36, 64 / Ant.5

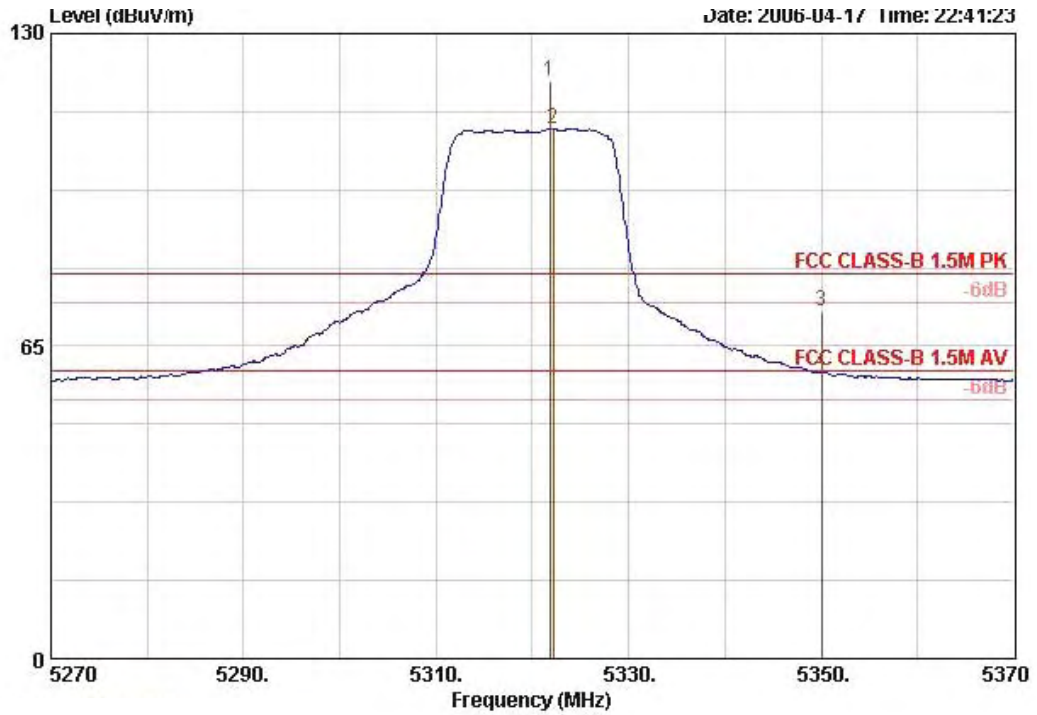
Channel 36



	Freq	Level	Over Limit	Limit	Antenna Line 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	5150.000	71.11	-8.89	80.00	33.84	4.88	0.00	32.39	PEAK	100	360
2	5150.000	58.86	-1.14	60.00	33.84	4.88	0.00	20.14	AVERAGE	100	360
3	5175.100	106.91			33.89	4.92	0.00	68.10	Average	---	---
4	5184.000	116.37			33.89	4.92	0.00	77.56	PEAK	100	360

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 64

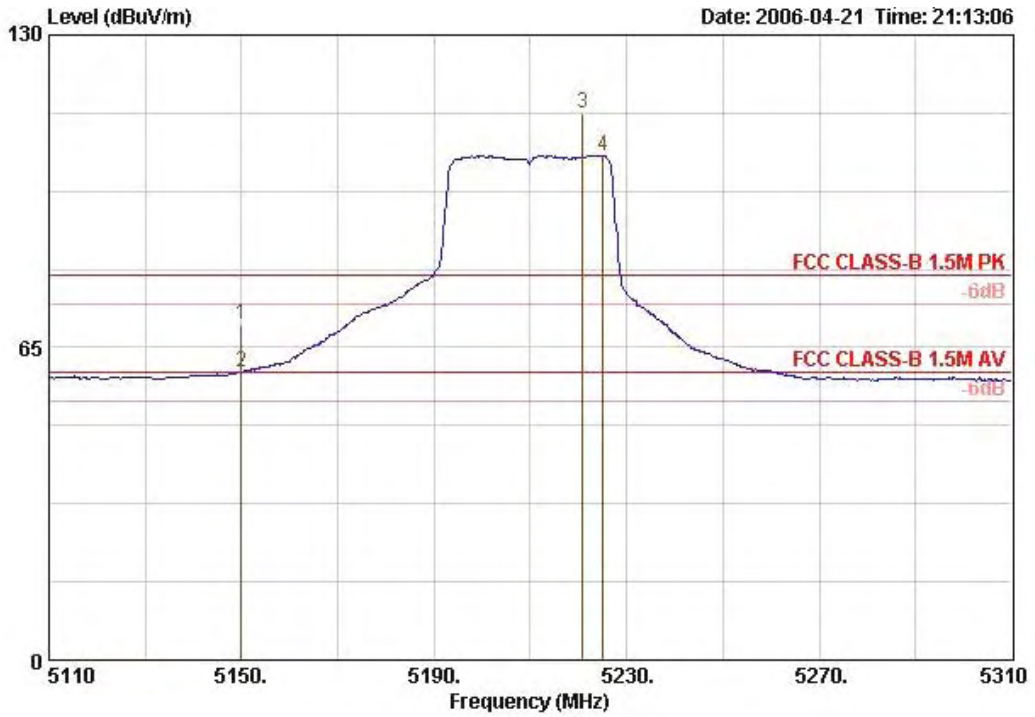


	Over	Limit	Antenna	Cable	Preamp	Read	Ant	Table			
Freq	Level	Limit	Line Factor	Loss Factor	Level	Remark	Pos	Pos			
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dBuV	cm	deg			
1	5321.800	120.05		34.11	5.07	0.00	80.87	PEAK	104	360	
2 @	5322.200	110.28		34.11	5.07	0.00	71.10	Average	---	---	
3	5350.000	72.09	-7.91	80.00	34.16	5.11	0.00	32.82	PEAK	104	360
4 !	5350.000	59.59	-0.41	60.00	34.16	5.11	0.00	20.32	AVERAGE	104	360

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 42, 58 / Ant.5

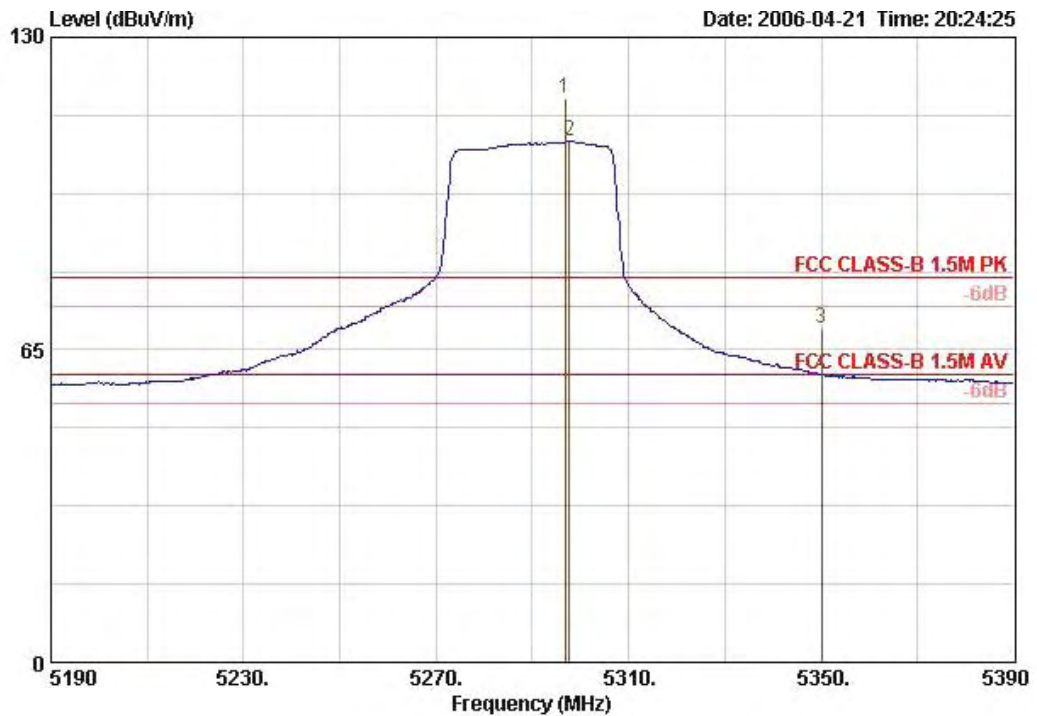
Turbo Channel 42



	Freq	Level	Over Limit	Limit	Antenna Line	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	5150.000	69.94	-10.06	80.00	33.84	4.88	0.00	31.22	PEAK	100	12
2	5150.000	59.97	-0.03	60.00	33.84	4.88	0.00	21.25	AVERAGE	100	12
3	5220.800	113.54			33.95	4.96	0.00	74.64	PEAK	100	12
4	5225.000	104.89			33.97	4.96	0.00	65.96	Average	---	---

Item 3, 4 are the fundamental frequency at 5210 MHz.

Turbo Channel 58



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Remark	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1	5296.800	117.16			34.08	5.03	0.00	78.04	PEAK	103	10
2 @	5297.600	108.38			34.08	5.03	0.00	69.27	Average	---	---
3	5350.000	69.26	-10.74	80.00	34.16	5.11	0.00	29.99	PEAK	103	10
4 !	5350.000	59.81	-0.19	60.00	34.16	5.11	0.00	20.54	AVERAGE	103	10

Item 1, 2 are the fundamental frequency at 5290 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 Horizontal Polarization.

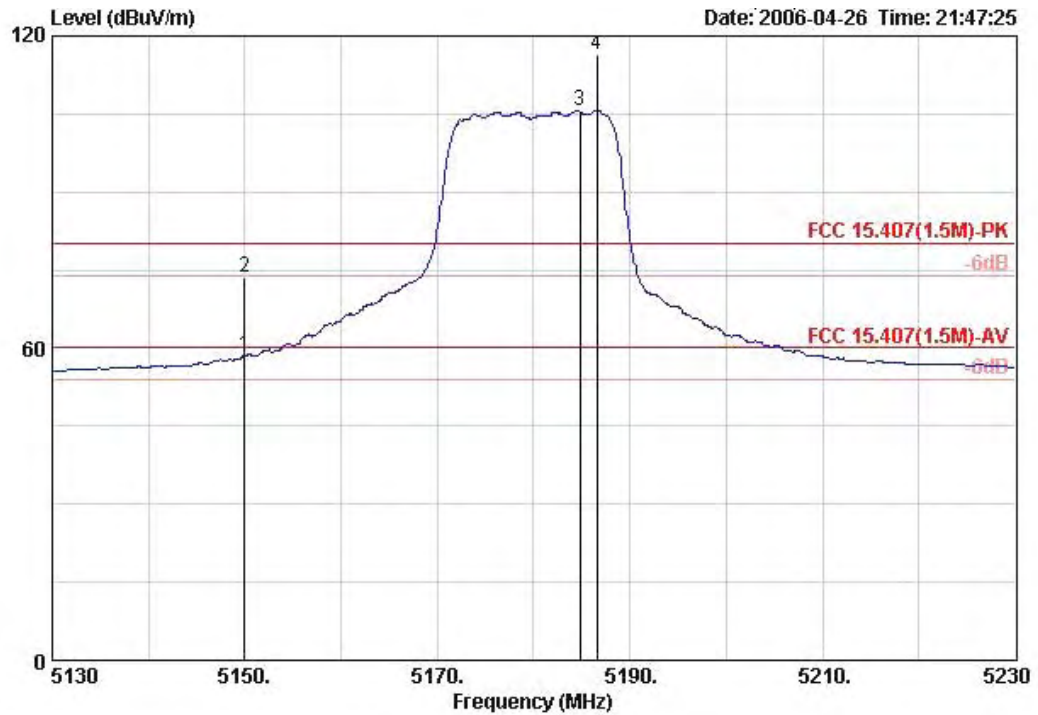
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m.

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

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

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 36, 64 / Ant.6

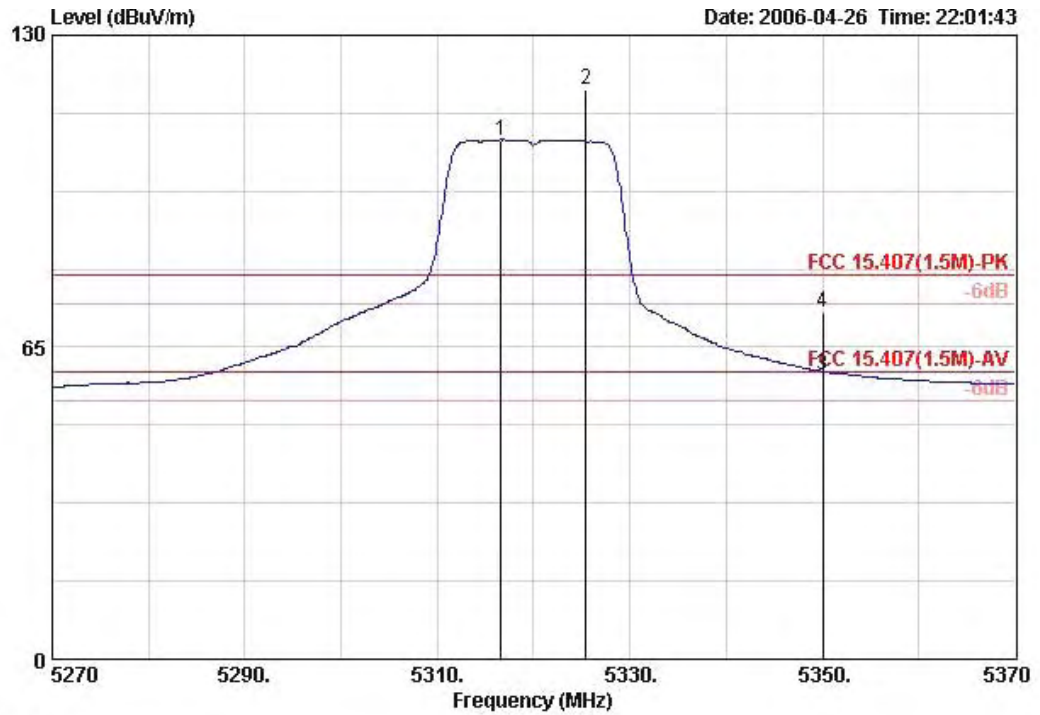
Channel 36



	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	5150.000	58.53	-1.47	60.00	20.71	33.45	4.37	0.00	AVERAGE	VERTICAL	3
2	5150.000	73.53	-6.47	80.00	35.71	33.45	4.37	0.00	PEAK	VERTICAL	3
3	5184.800	105.53			67.59	33.55	4.38	0.00	AVERAGE	VERTICAL	3
4	5186.600	116.37			78.44	33.55	4.38	0.00	PEAK	VERTICAL	3

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 64

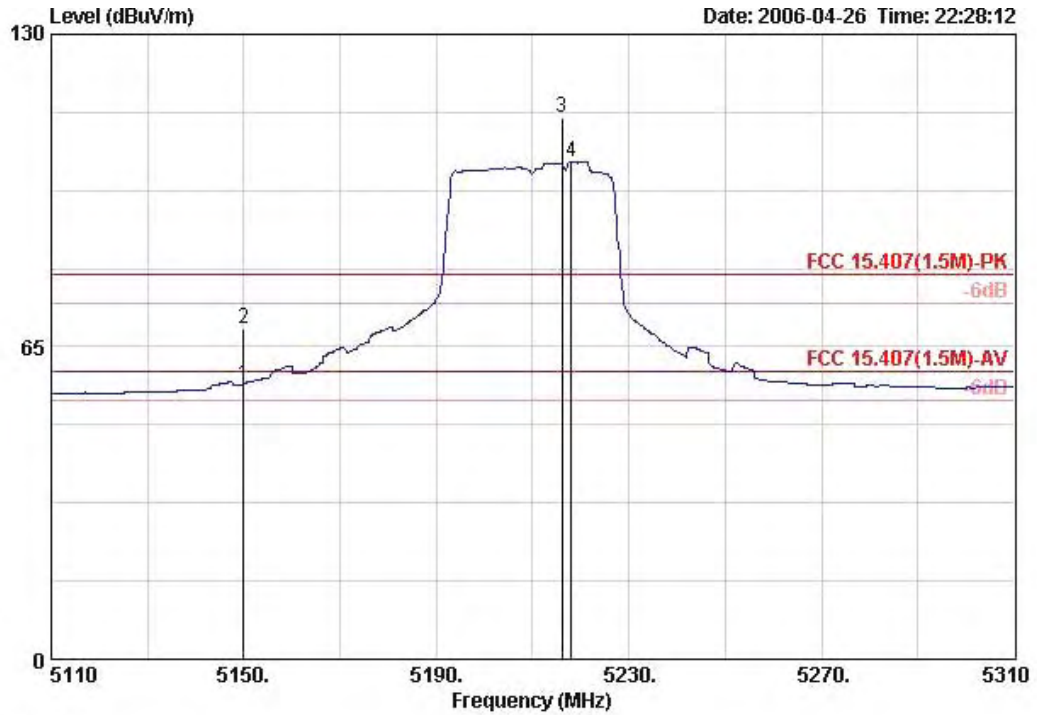


	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	5316.600	108.21			69.82	33.95	4.44	0.00	AVERAGE	VERTICAL	3
2 @	5325.400	118.61			80.23	33.95	4.44	0.00	PEAK	VERTICAL	3
3 @	5350.000	58.98	-1.02	60.00	20.48	34.05	4.45	0.00	AVERAGE	VERTICAL	3
4	5350.000	72.21	-7.79	80.00	33.71	34.05	4.45	0.00	PEAK	VERTICAL	3

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Turbo Channel 42, 58 / Ant.6

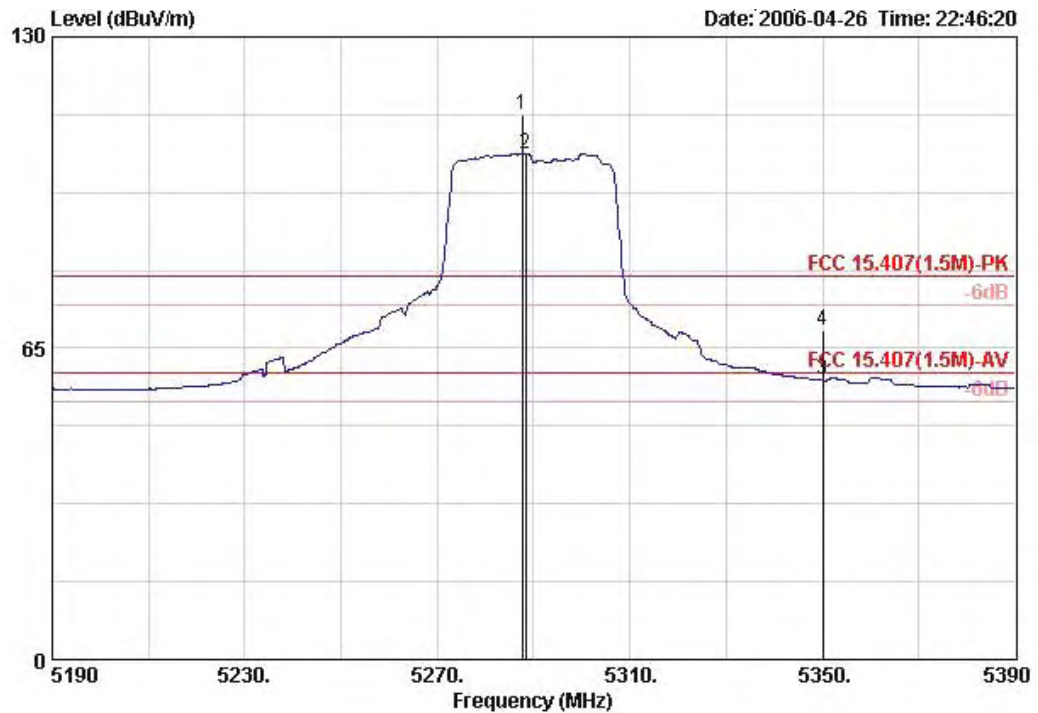
Turbo Channel 42



	Over	Limit	Read	Antenna	Cable	Preamp				
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pol/Phase	Distance
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	5150.000	57.16	-2.84	60.00	19.34	33.45	4.37	0.00 AVERAGE	VERTICAL	3
2	5150.000	68.89	-11.11	80.00	31.08	33.45	4.37	0.00 PEAK	VERTICAL	3
3 @	5216.000	112.73			74.68	33.65	4.40	0.00 PEAK	VERTICAL	3
4 @	5218.000	103.40			65.35	33.65	4.40	0.00 AVERAGE	VERTICAL	3

Item 3, 4 are the fundamental frequency at 5210 MHz.

Turbo Channel 58



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1 @	5287.600	113.74			75.47	33.85	4.42	0.00	PEAK	VERTICAL	3
2 @	5288.400	105.58			67.31	33.85	4.42	0.00	AVERAGE	VERTICAL	3
3 @	5350.000	58.38	-1.62	60.00	19.87	34.05	4.45	0.00	AVERAGE	VERTICAL	3
4	5350.000	68.56	-11.44	80.00	30.06	34.05	4.45	0.00	PEAK	VERTICAL	3

Item 1, 2 are the fundamental frequency at 5290 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 Horizontal Polarization.

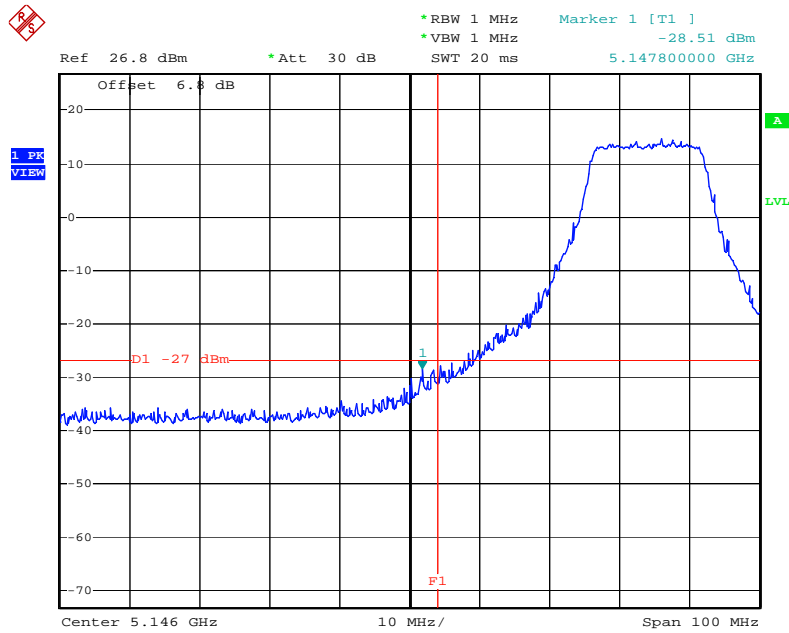
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m.

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

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

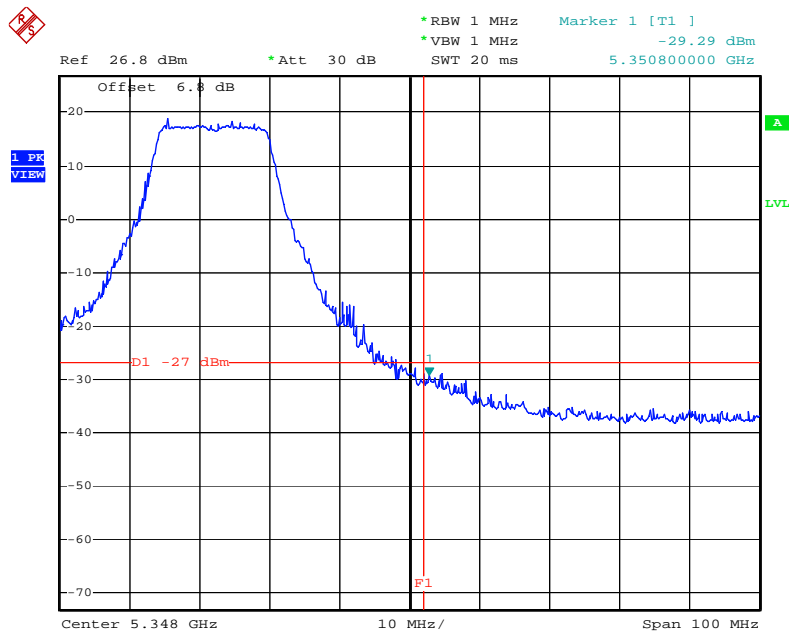
Ant. 1

EIRP Emission in Band on Configuration IEEE 802.11a / 5180 MHz



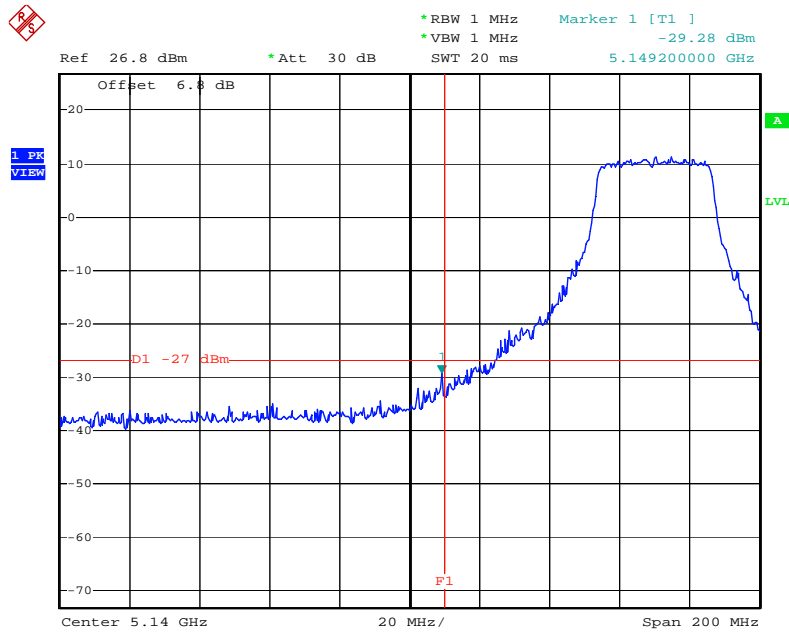
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EIRP Emission in Band on Configuration IEEE 802.11a / 5320 MHz



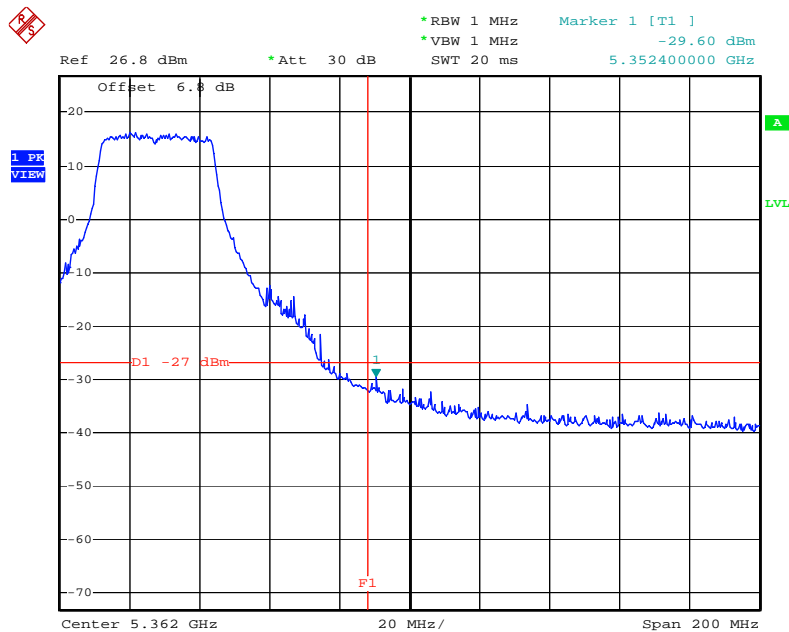
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EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5210 MHz



Date: 4.MAY.2006 21:52:05

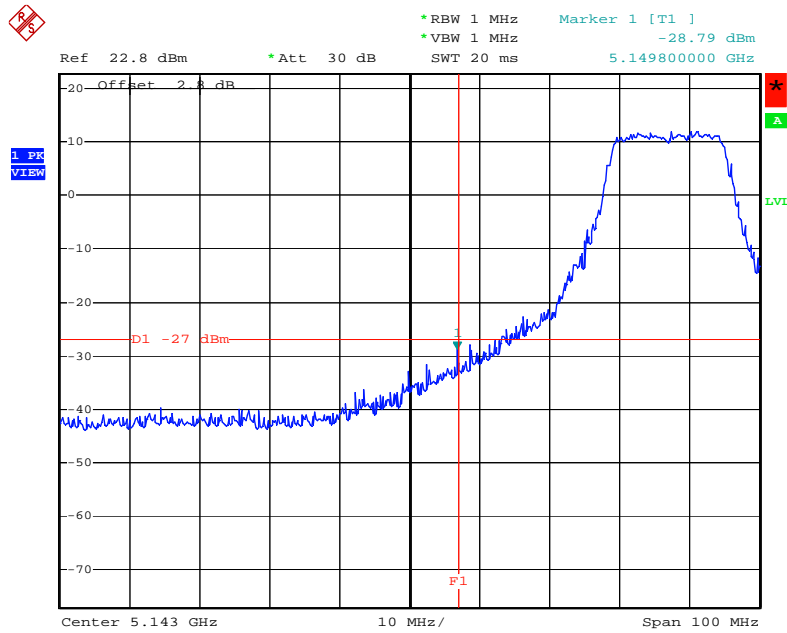
EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5290 MHz



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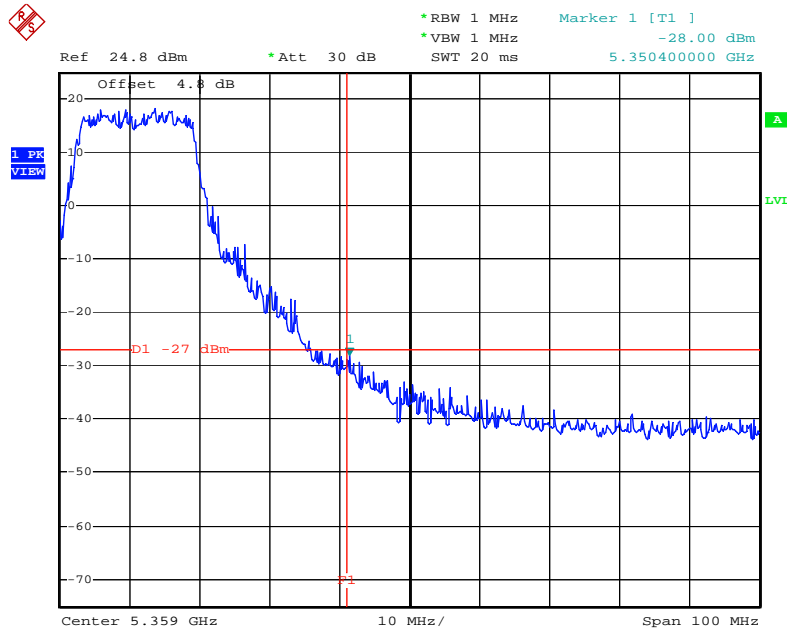
Ant. 2

EIRP Emission in Band on Configuration IEEE 802.11a / 5180 MHz



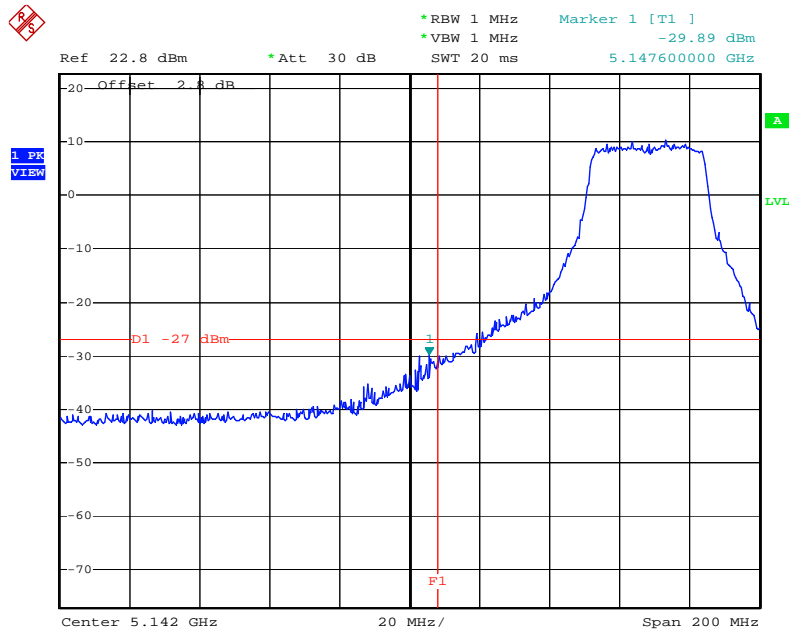
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EIRP Emission in Band on Configuration IEEE 802.11a / 5320 MHz



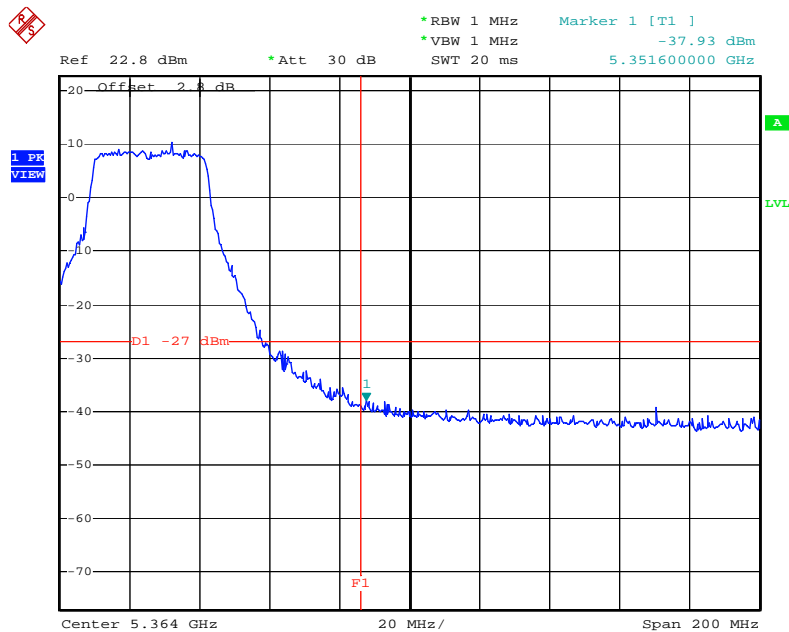
Date: 27.APR.2006 22:12:37

EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5210 MHz



Date: 4.MAY.2006 22:09:19

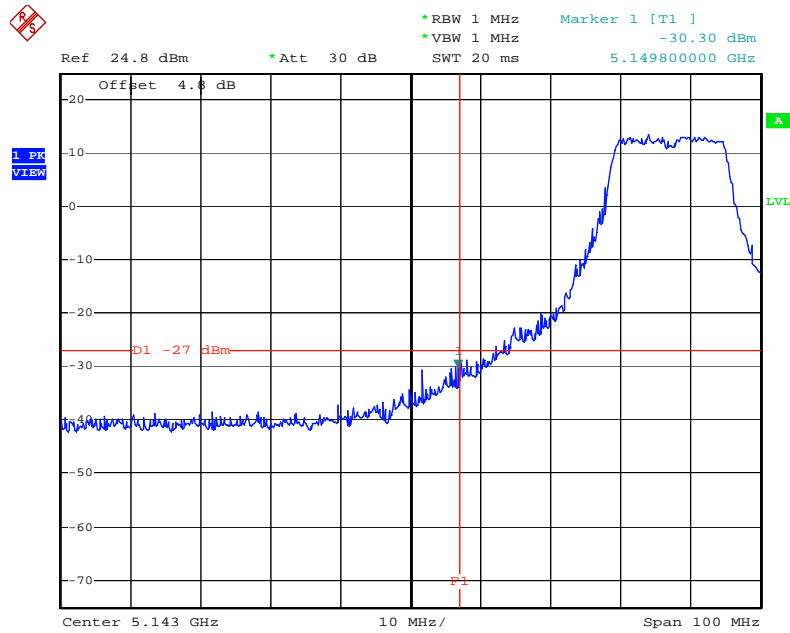
EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5290 MHz



Date: 4.MAY.2006 22:09:58

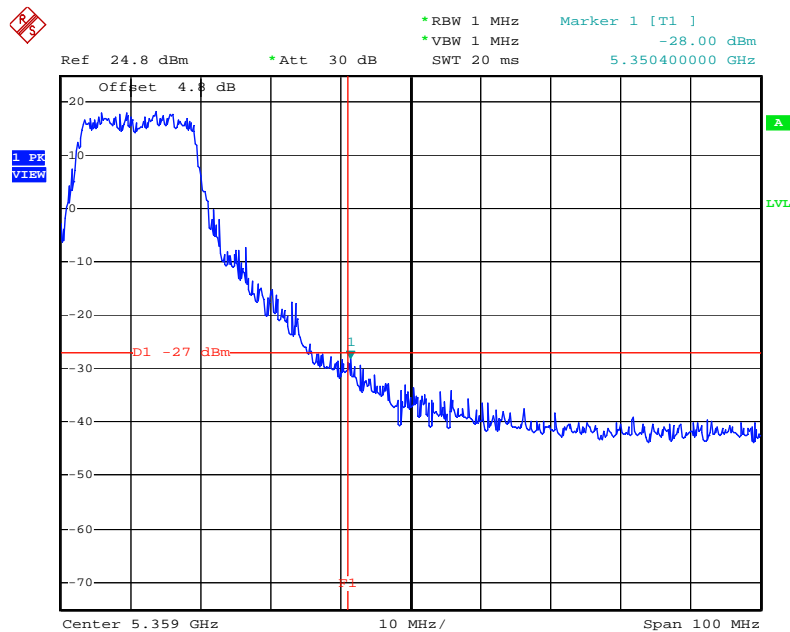
Ant. 4

EIRP Emission in Band on Configuration IEEE 802.11a / 5180 MHz



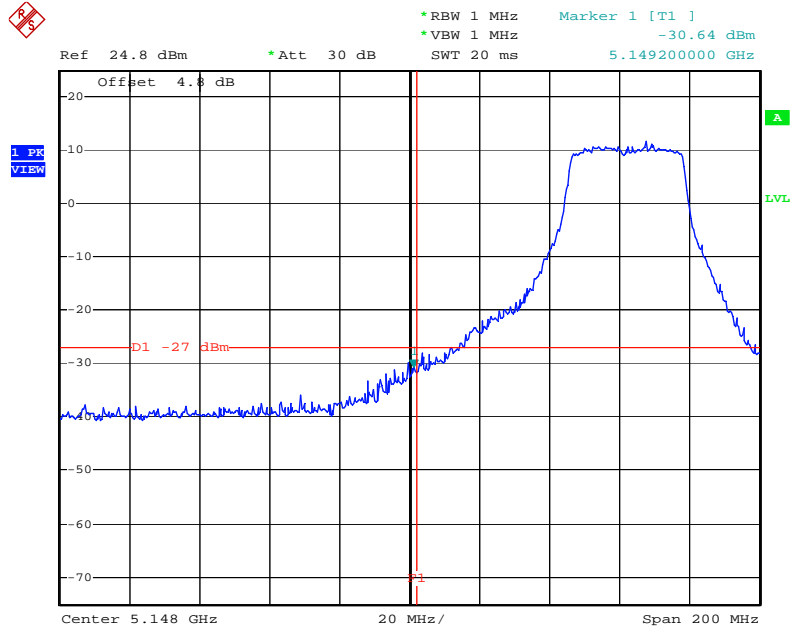
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EIRP Emission in Band on Configuration IEEE 802.11a / 5320 MHz



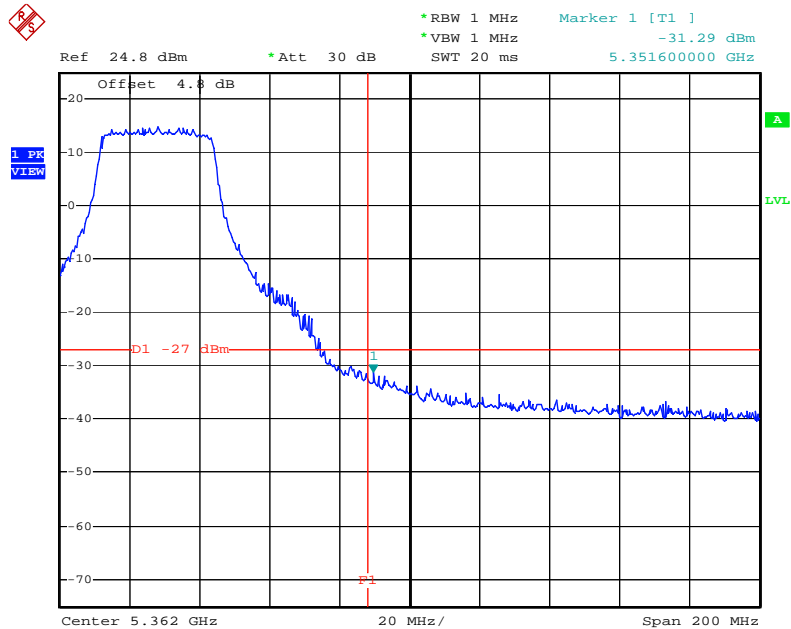
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EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5210 MHz



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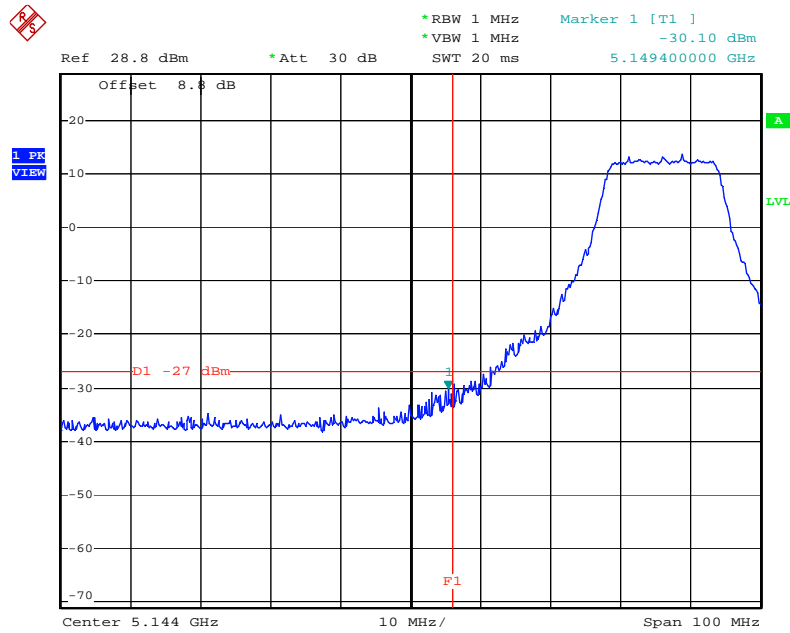
EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5290 MHz



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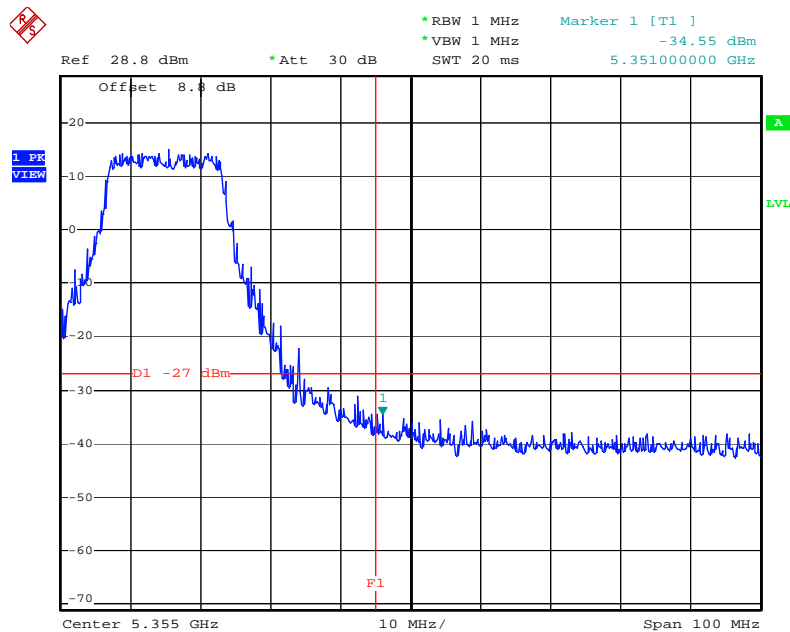
Ant. 5

EIRP Emission in Band on Configuration IEEE 802.11a / 5180 MHz



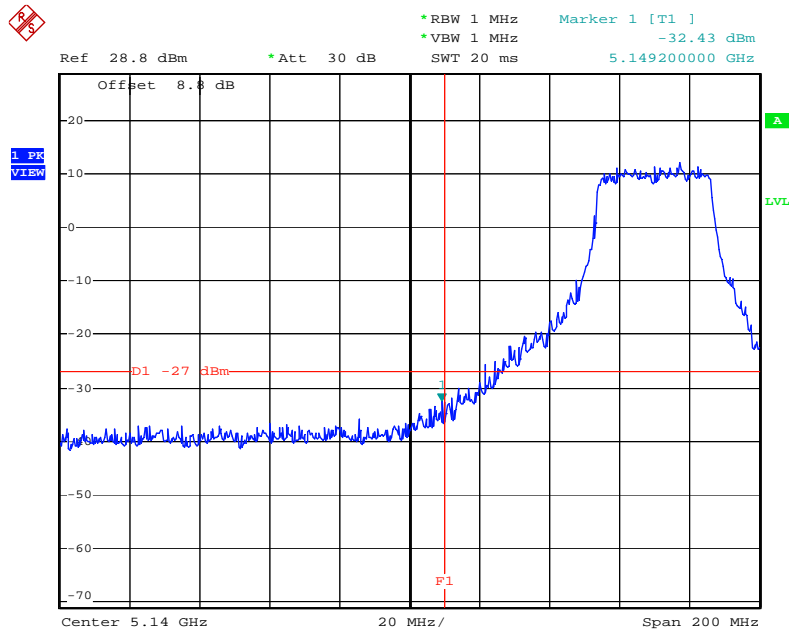
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EIRP Emission in Band on Configuration IEEE 802.11a / 5320 MHz



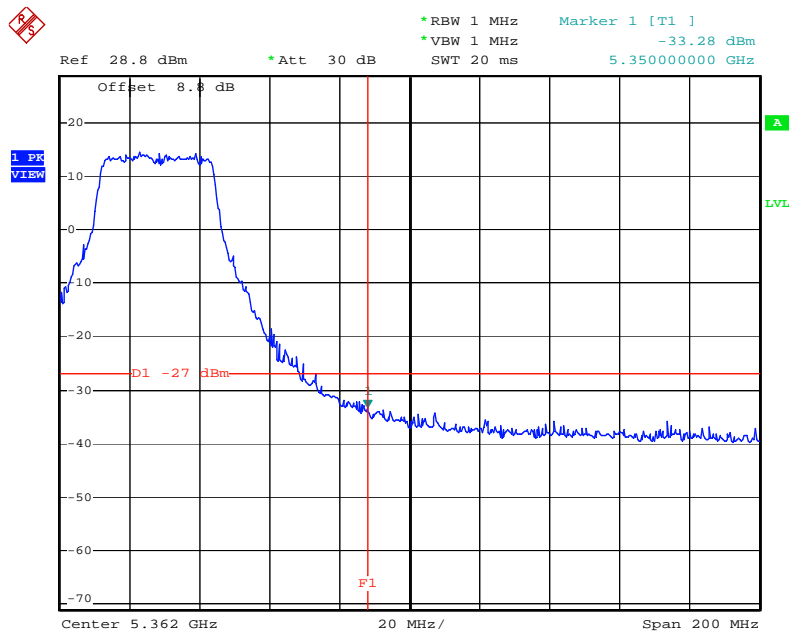
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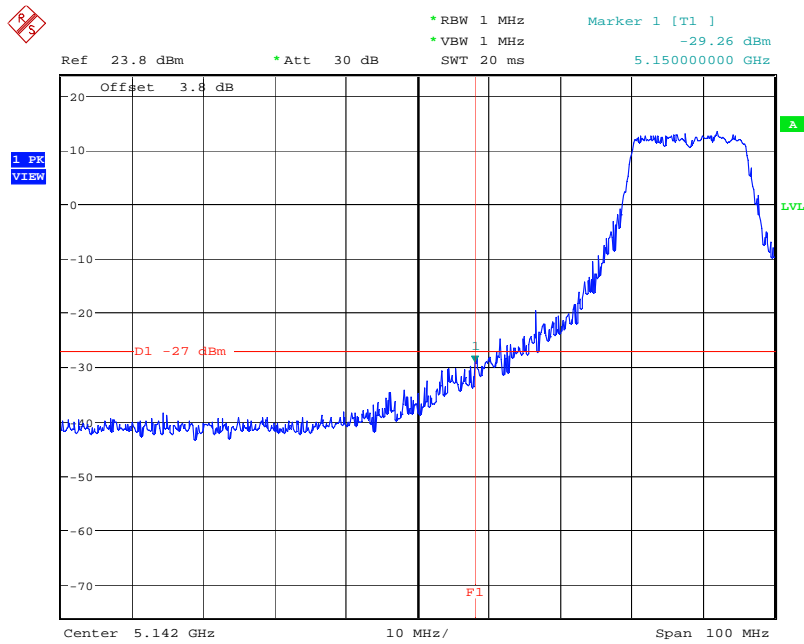
EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5290 MHz



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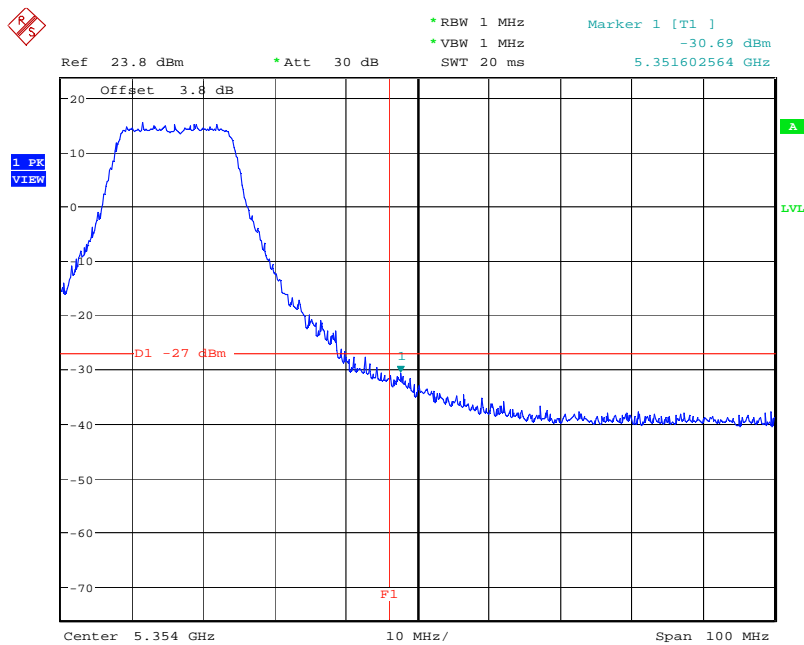
Ant. 6

EIRP Emission in Band on Configuration IEEE 802.11a / 5180 MHz



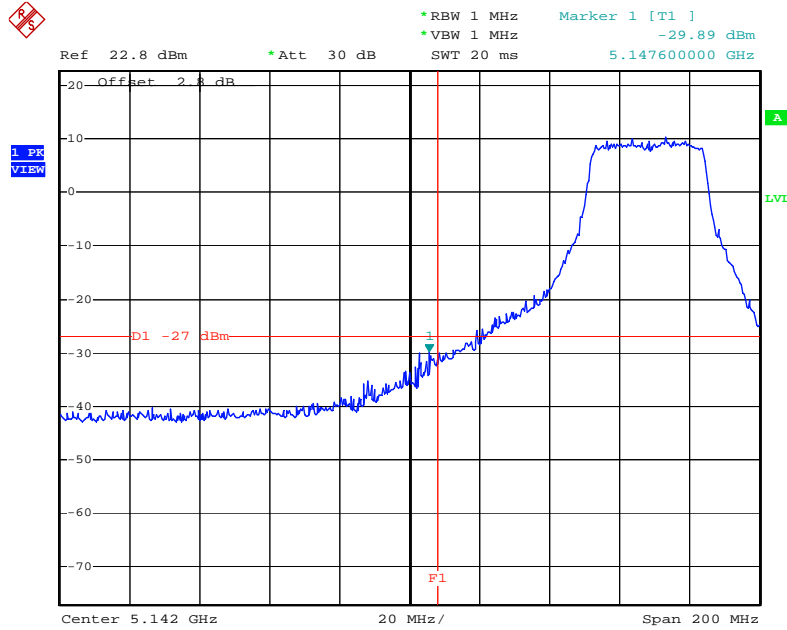
Date: 8.MAY.2006 15:50:12

EIRP Emission in Band on Configuration IEEE 802.11a / 5320 MHz



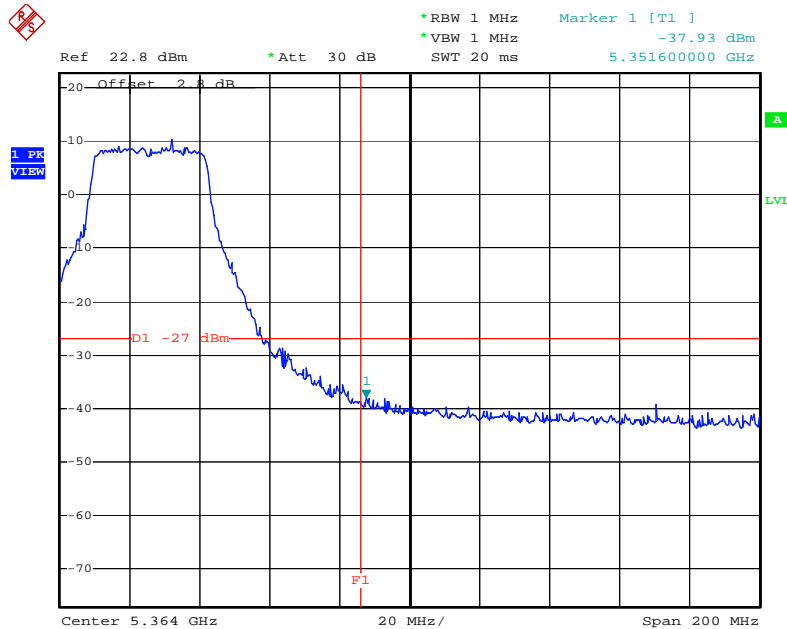
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EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5210 MHz



Date: 4.MAY.2006 22:09:19

EIRP Emission in Band on Configuration IEEE 802.11a Turbo / 5290 MHz



Date: 4.MAY.2006 22:09:58

4.8. Frequency Stability Measurement

4.8.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or $\pm 20\text{ppm}$ (IEEE 802.11a specification).

4.8.2. Measuring Instruments and Setting

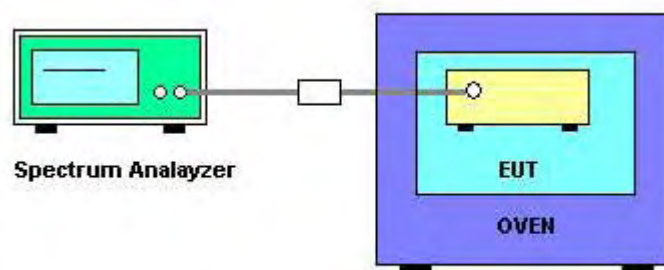
Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than $\pm 20\text{ppm}$ (IEEE 802.11a specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature rule is $-30^\circ\text{C} \sim 50^\circ\text{C}$.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5260
126.50	5259.9866
110.00	5259.9860
93.50	5259.9862
Max. Deviation (MHz)	0.0140
Max. Deviation (ppm)	2.6616

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5260
-30	5260.0216
-20	5260.0134
-10	5259.9980
0	5259.9894
10	5259.9826
20	5259.9860
30	5259.9918
40	5259.9800
50	5259.9889
Max. Deviation (MHz)	0.0216
Max. Deviation (ppm)	4.1065

4.9. Antenna Requirements

4.9.1. 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.

4.9.2. 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 facility 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 2 nd 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