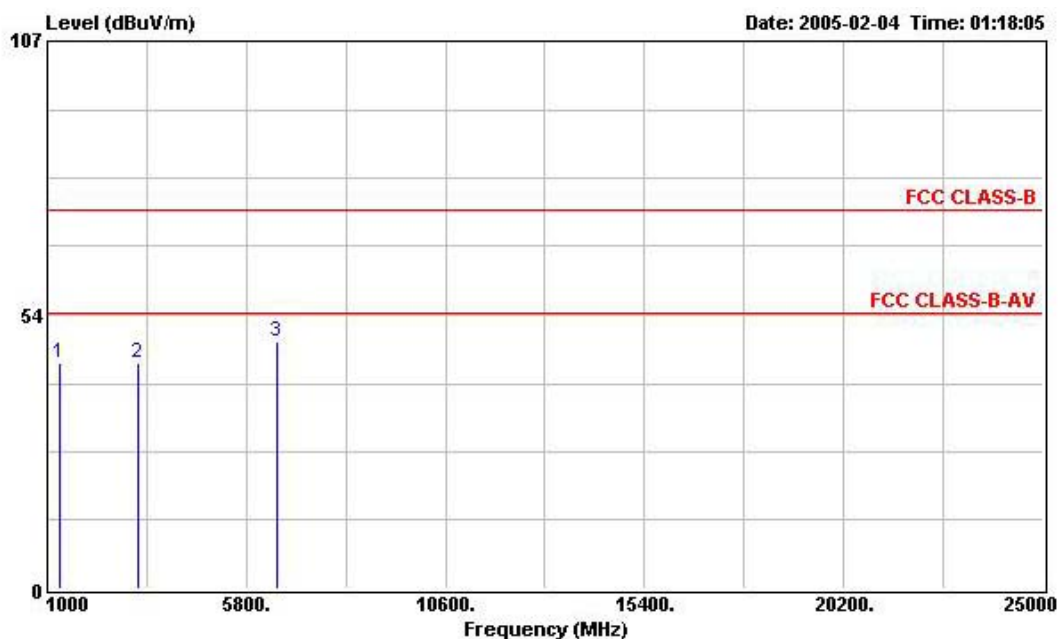


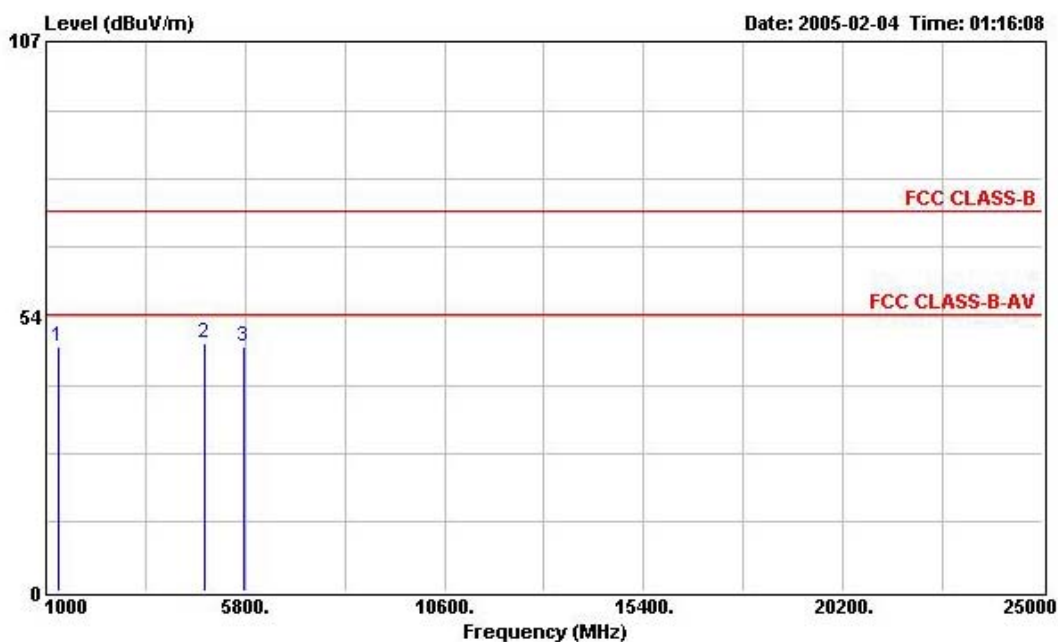
Mode 2

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
			Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	44.26	-29.74	74.00	57.38	24.73	1.36	39.21	Peak	---	---
2	3196.000	44.01	-29.99	74.00	50.38	30.56	2.26	39.19	Peak	---	---
3	6536.000	48.40	-25.60	74.00	50.32	34.36	3.41	39.69	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	47.56	-26.44	74.00	60.68	24.73	1.36	39.21	Peak	---	---
2	4820.000	48.25	-25.75	74.00	52.59	32.96	2.84	40.14	Peak	---	---
3	5752.000	47.63	-26.37	74.00	50.32	34.05	3.18	39.92	Peak	---	---

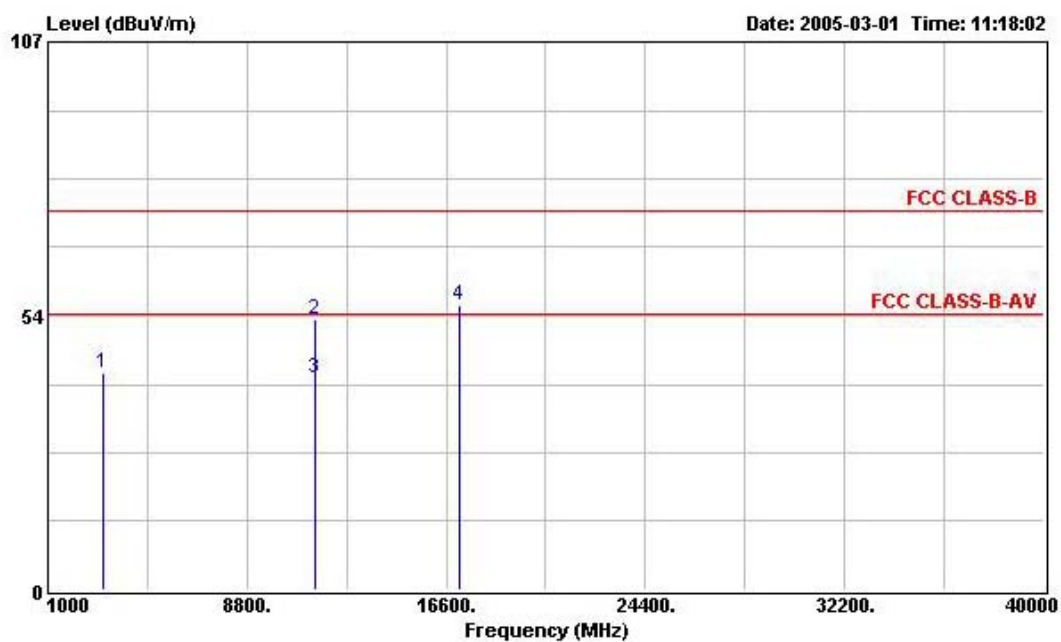
Note:

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

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

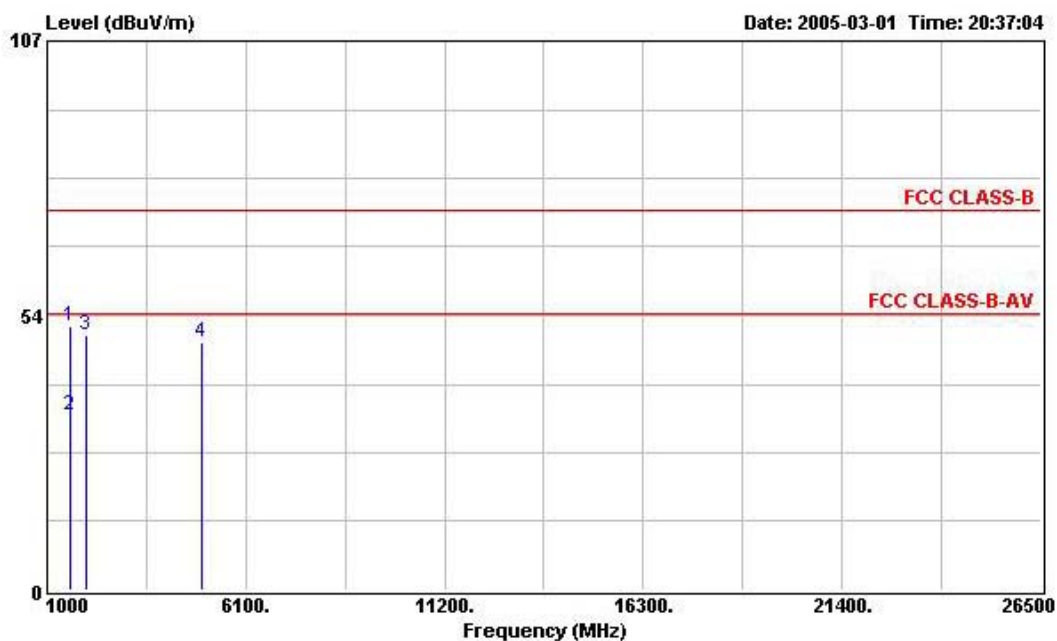
Mode 3

(A) Polarization: Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	3196.000	42.28	-31.72	74.00	48.78	30.48	2.26	39.24	Peak	---	---
2	11488.000	52.79	-21.21	74.00	47.54	39.08	4.74	38.57	Peak	---	---
3	11488.000	41.46	-12.54	54.00	36.21	39.08	4.74	38.57	Average	---	---
4	17100.000	55.43	-18.57	74.00	45.56	41.04	5.57	36.74	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1596.000	51.32	-22.68	74.00	63.48	25.60	1.52	39.28	Peak	---	---
2	1596.000	34.07	-19.93	54.00	46.23	25.60	1.52	39.28	Average	---	---
3	2004.000	49.62	-24.38	74.00	60.12	27.42	1.73	39.65	Peak	---	---
4	4988.000	48.26	-25.74	74.00	52.23	33.27	2.91	40.15	Peak	100	0

Note:

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

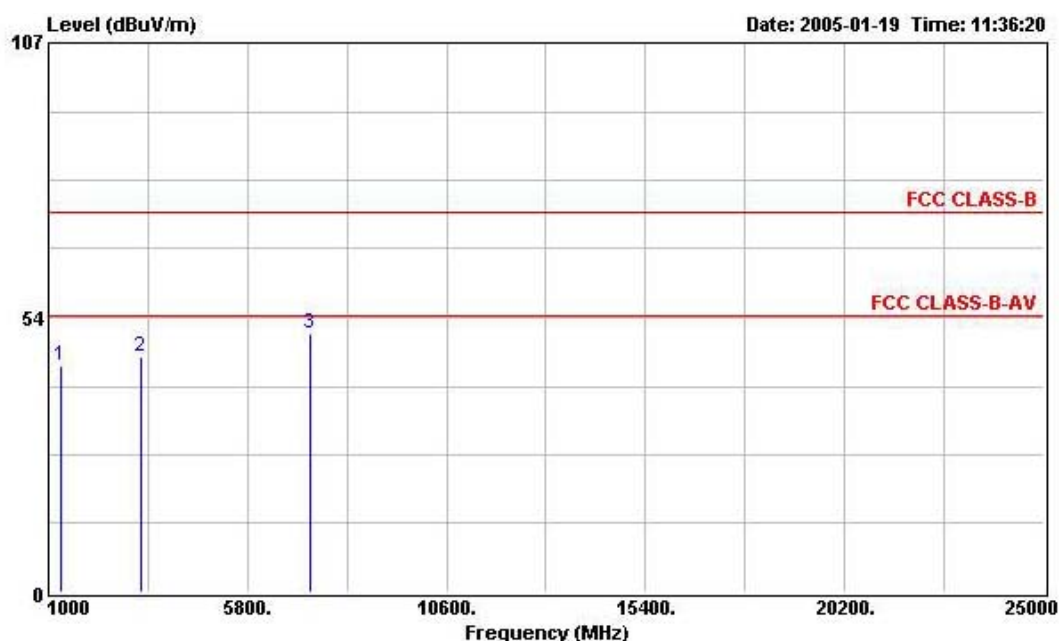
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

5.6.9. Test Results for CH 06 / 2437 MHz (for emission above 1GHz)

- Modulation Type: DSSS
- Temperature: 26°C
- Relative Humidity: 64%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

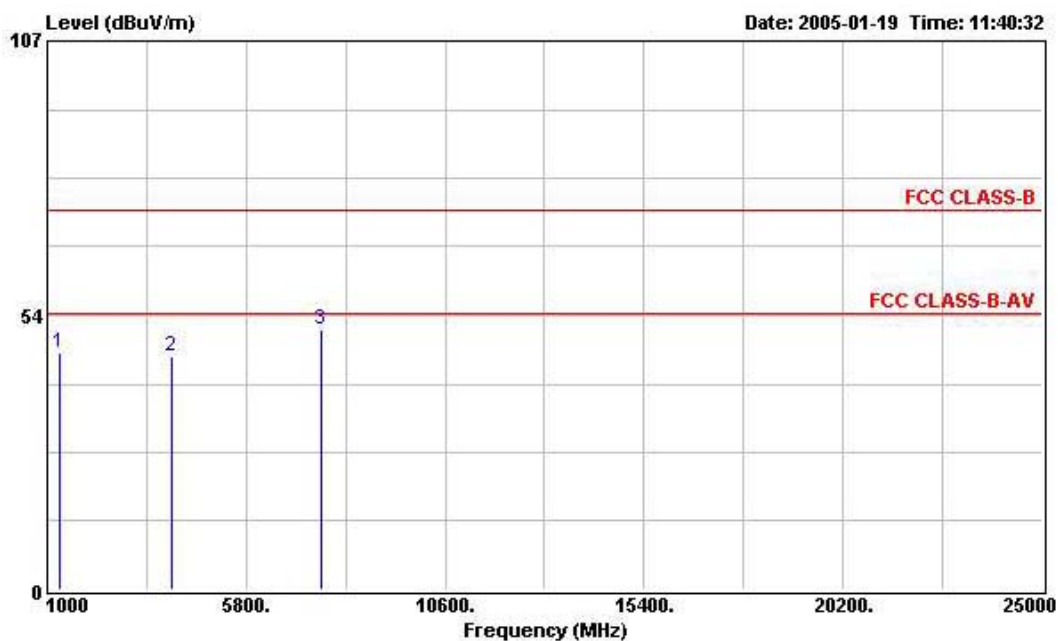
Mode 1

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	43.96	-30.04	74.00	57.08	24.73	1.36	39.21	Peak	---	---
2	3248.000	45.90	-28.10	74.00	52.09	30.67	2.28	39.14	Peak	---	---
3	7300.000	50.41	-23.59	74.00	50.25	35.98	3.64	39.46	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1300.000	46.16	-27.84	74.00	59.28	24.73	1.36	39.21	Peak	---	---
2	3988.000	45.61	-28.39	74.00	50.07	32.46	2.49	39.41	Peak	---	---
3	7616.000	50.89	-23.11	74.00	49.76	36.73	3.76	39.36	Peak	---	---

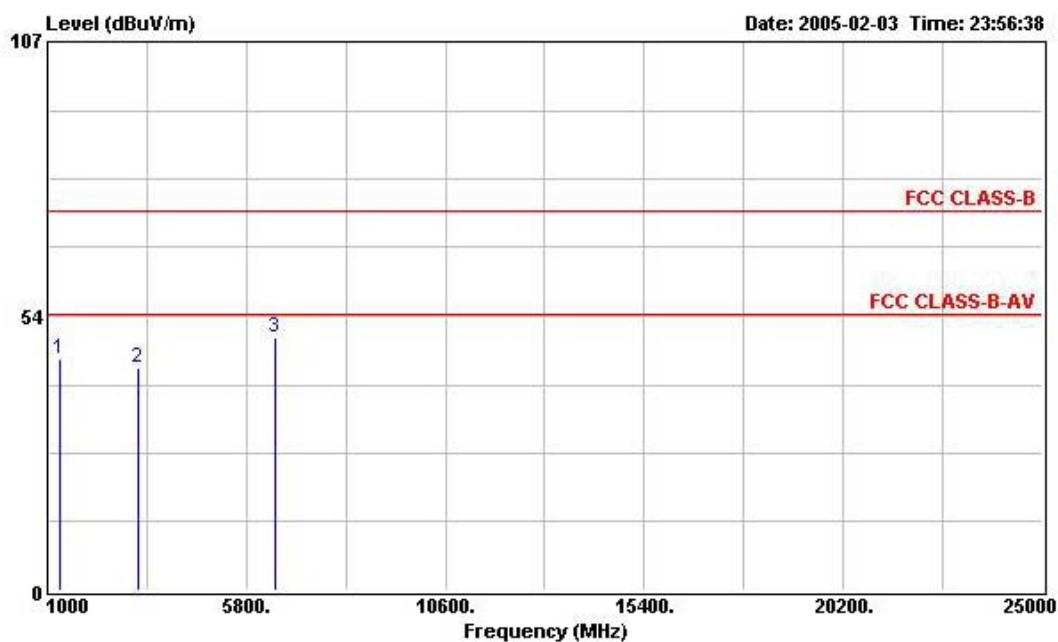
Note:

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

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

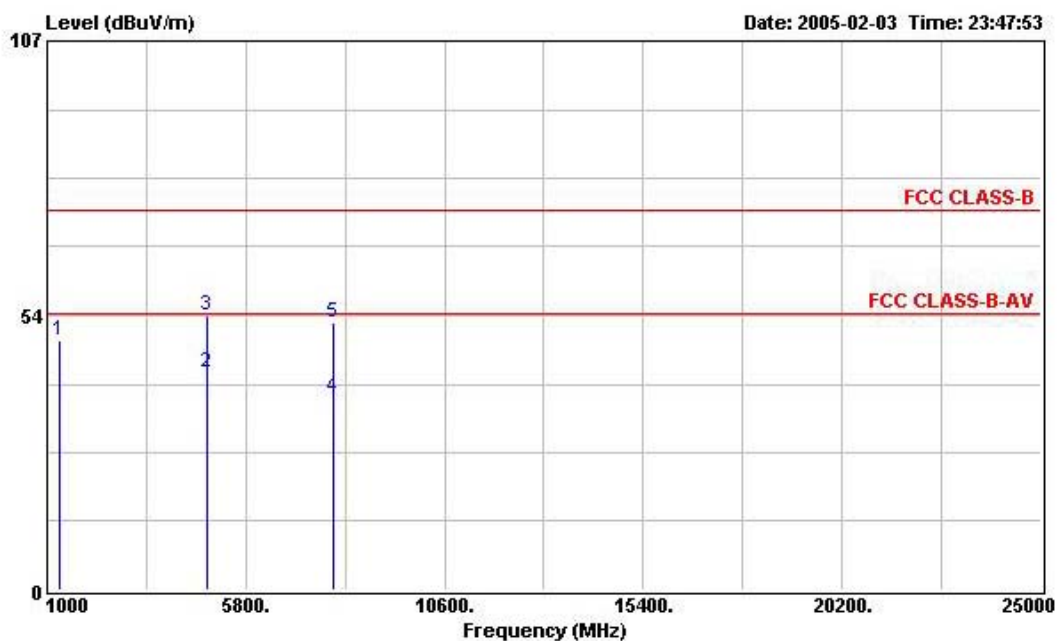
Mode 2

(A) Polarization: Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	45.03	-28.97	74.00	58.15	24.73	1.36	39.21	Peak	---	---
2	3192.000	43.33	-30.67	74.00	49.80	30.48	2.26	39.21	Peak	---	---
3	6476.000	49.32	-24.68	74.00	51.34	34.29	3.40	39.71	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	48.65	-25.35	74.00	61.77	24.73	1.36	39.21	Peak	---	---
2	4876.000	42.41	-11.59	54.00	46.57	33.11	2.87	40.14	Average	---	---
3	4876.000	53.43	-20.57	74.00	57.59	33.11	2.87	40.14	Peak	---	---
4	7932.000	37.61	-16.39	54.00	35.97	37.03	3.87	39.26	Average	---	---
5	7932.000	52.13	-21.87	74.00	50.49	37.03	3.87	39.26	Peak	---	---

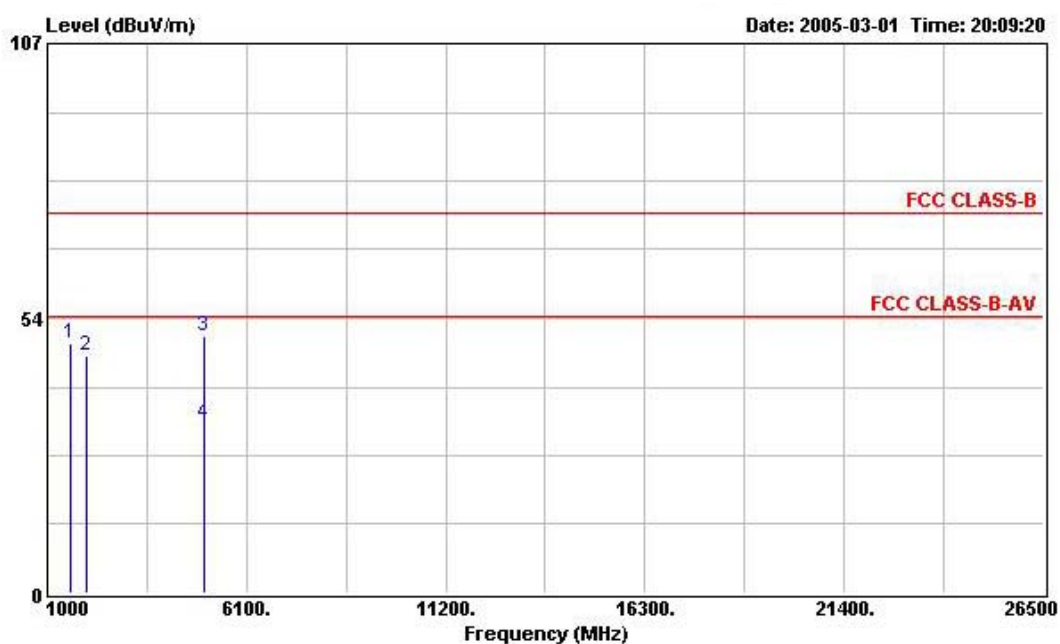
Note:

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

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

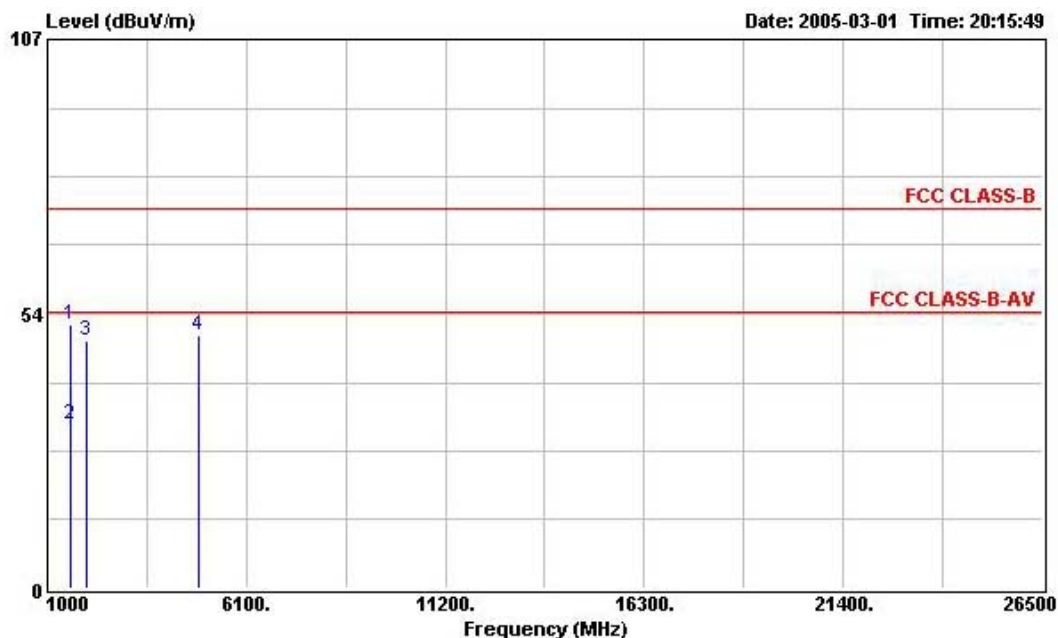
Mode 3

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1598.000	48.62	-25.38	74.00	60.77	25.61	1.52	39.28	Peak	---	---
2	1998.000	46.32	-27.68	74.00	56.85	27.40	1.72	39.65	Peak	---	---
3	5000.000	50.07	-23.93	74.00	53.98	33.32	2.92	40.15	Peak	100	0
4	5000.000	33.12	-20.88	54.00	37.03	33.32	2.92	40.15	Average	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1598.000	51.53	-22.47	74.00	63.68	25.61	1.52	39.28	Peak	---	---
2	1598.000	31.94	-22.06	54.00	44.09	25.61	1.52	39.28	Average	---	---
3	1998.000	48.38	-25.62	74.00	58.91	27.40	1.72	39.65	Peak	---	---
4	4876.000	49.32	-24.68	74.00	53.51	33.08	2.87	40.14	Peak	100	0

Note:

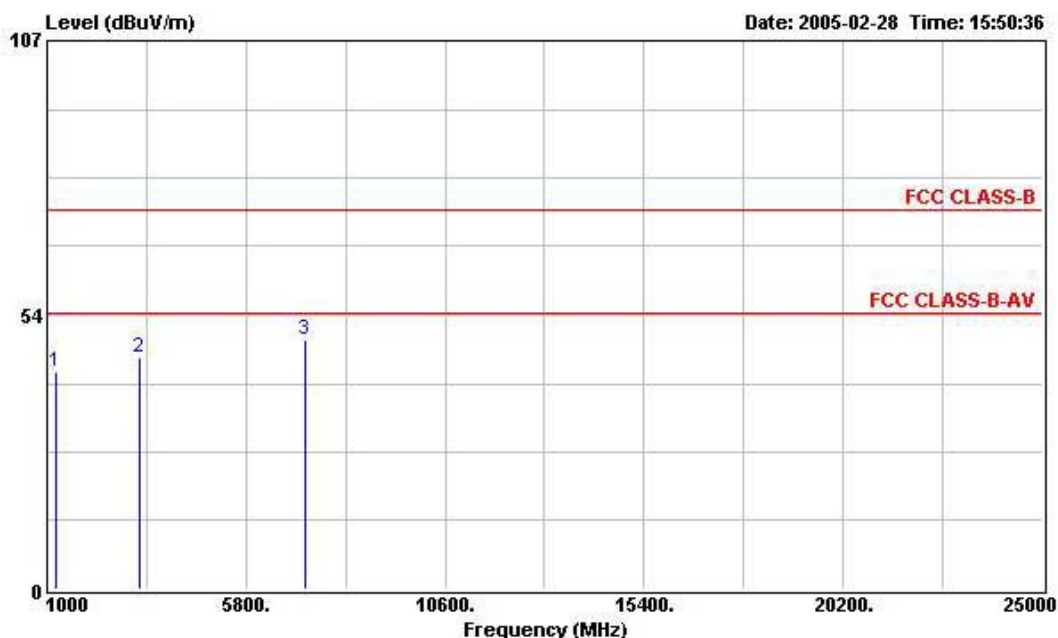
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

- Modulation Type: OFDM
- Temperature: 26°C
- Relative Humidity: 64%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

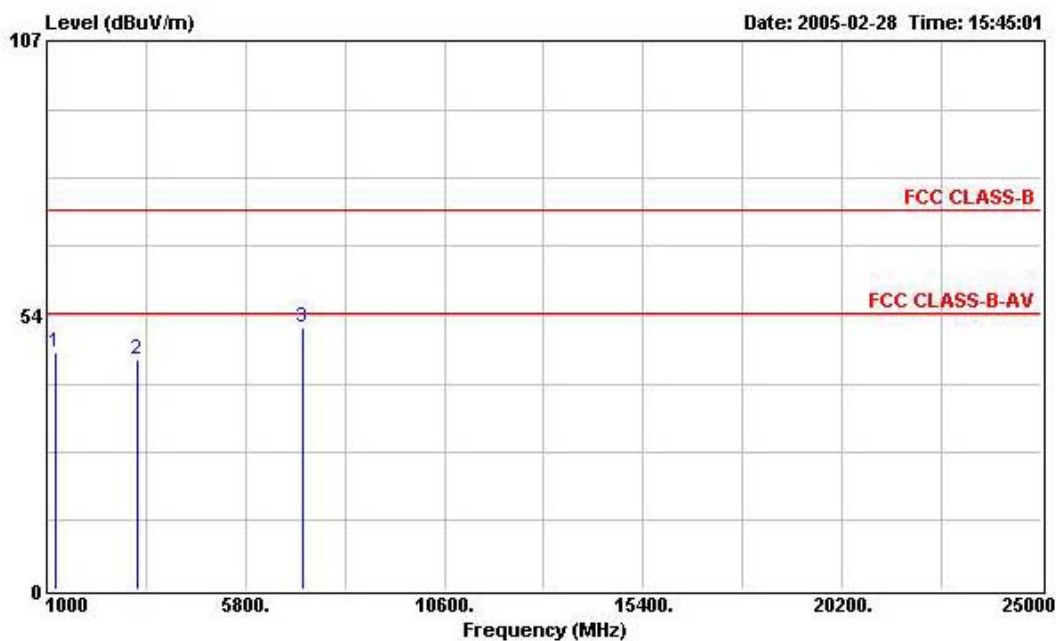
Mode 1

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1196.000	42.38	-31.62	74.00	55.74	24.54	1.32	39.22	Peak	---	---
2	3248.000	45.03	-28.97	74.00	51.22	30.67	2.28	39.14	Peak	---	---
3	7216.000	48.63	-25.37	74.00	48.72	35.77	3.62	39.48	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1196.000	46.12	-27.88	74.00	59.48	24.54	1.32	39.22	Peak	---	---
2	3188.000	44.94	-29.06	74.00	51.41	30.48	2.26	39.21	Peak	---	---
3	7164.000	51.19	-22.81	74.00	51.47	35.62	3.60	39.50	Peak	---	---

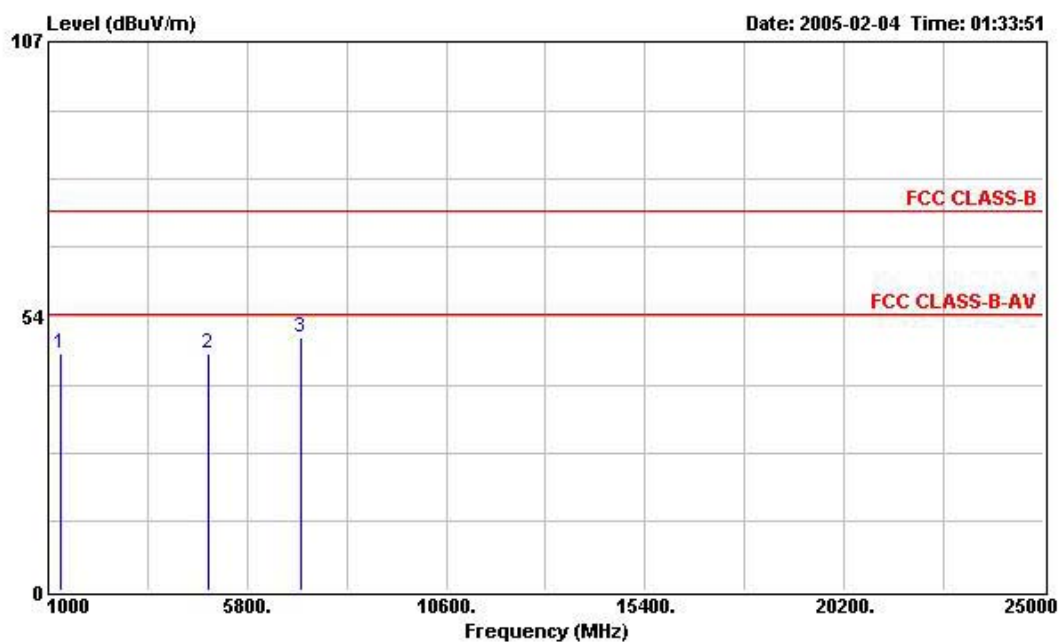
Note:

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

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

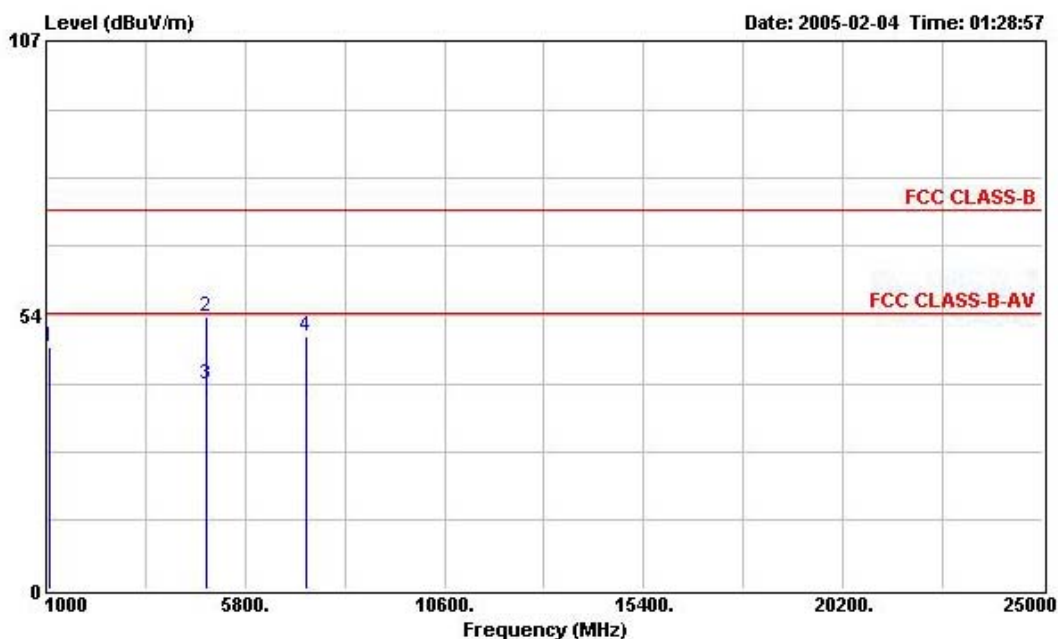
Mode 2

(A) Polarization: Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	46.08	-27.92	74.00	59.20	24.73	1.36	39.21	Peak	---	---
2	4876.000	46.07	-27.93	74.00	50.23	33.11	2.87	40.14	Peak	---	---
3	7096.000	49.34	-24.66	74.00	49.87	35.41	3.58	39.52	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1096.000	47.10	-26.90	74.00	60.67	24.39	1.27	39.23	Peak	---	---
2	4876.000	53.01	-20.99	74.00	57.17	33.11	2.87	40.14	Peak	---	---
3	4876.000	39.99	-14.01	54.00	44.15	33.11	2.87	40.14	Average	---	---
4	7276.000	49.35	-24.65	74.00	49.19	35.98	3.64	39.46	Peak	---	---

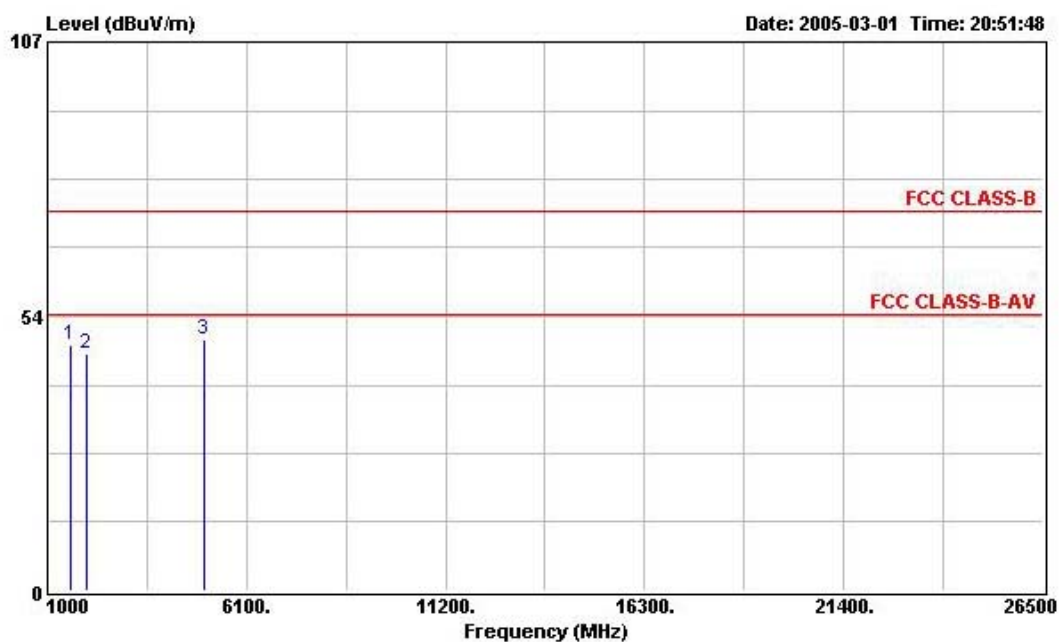
Note:

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

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

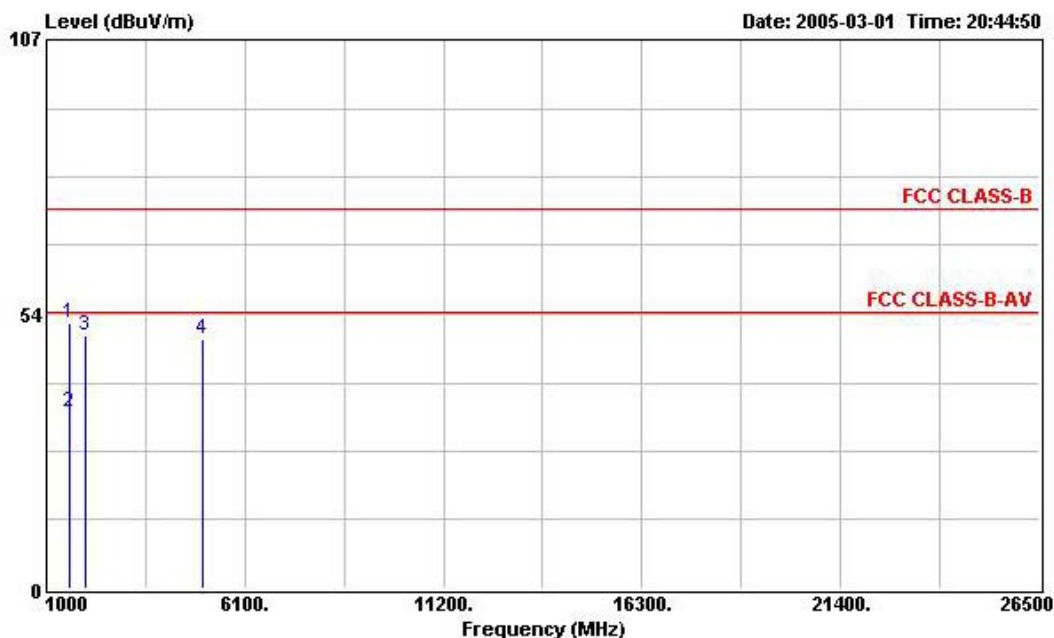
Mode 3

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1596.000	47.97	-26.03	74.00	60.13	25.60	1.52	39.28	Peak	---	---
2	1998.000	46.10	-27.90	74.00	56.63	27.40	1.72	39.65	Peak	---	---
3	5000.000	49.12	-24.88	74.00	53.03	33.32	2.92	40.15	Peak	100	0

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1598.000	51.60	-22.40	74.00	63.75	25.61	1.52	39.28	Peak	---	---
2	1598.000	34.26	-19.74	54.00	46.41	25.61	1.52	39.28	Average	---	---
3	1998.000	49.25	-24.75	74.00	59.78	27.40	1.72	39.65	Peak	---	---
4	5000.000	48.79	-25.21	74.00	52.70	33.32	2.92	40.15	Peak	100	360

Note:

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

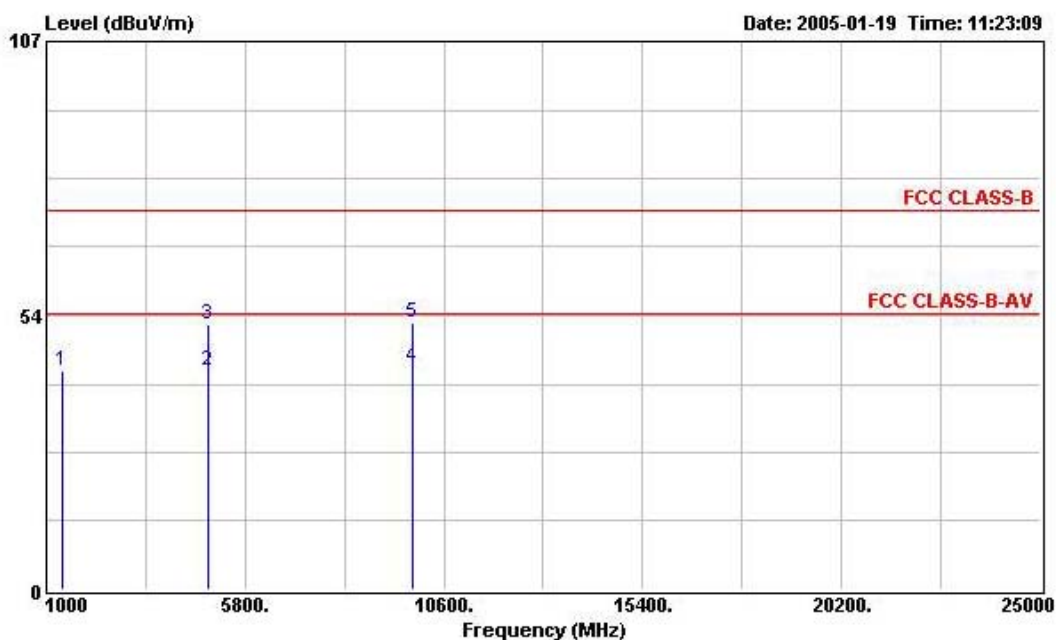
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

5.6.10. Test Results for CH 11 / 2462 MHz (for emission above 1GHz)

- Modulation Type: DSSS
- Temperature: 26°C
- Relative Humidity: 64%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

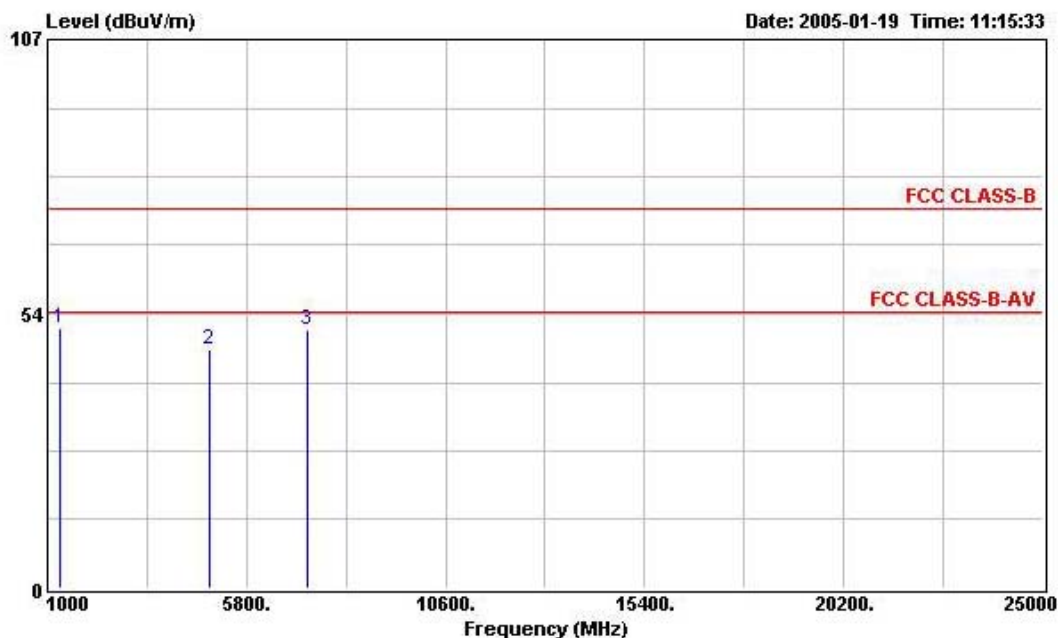
Mode 1

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1400.000	42.87	-31.13	74.00	55.69	24.94	1.43	39.19	Peak	---	---
2	4924.000	42.59	-11.41	54.00	46.63	33.21	2.90	40.15	Average	---	---
3	4924.000	51.89	-22.11	74.00	55.93	33.21	2.90	40.15	Peak	---	---
4	9848.000	43.42	-10.58	54.00	39.46	38.65	3.99	38.68	Average	---	---
5	9848.000	52.02	-21.98	74.00	48.06	38.65	3.99	38.68	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1300.000	50.56	-23.44	74.00	63.68	24.73	1.36	39.21	Peak	---	---
2	4928.000	46.61	-27.39	74.00	50.65	33.21	2.90	40.15	Peak	---	---
3	7288.000	50.31	-23.69	74.00	50.15	35.98	3.64	39.46	Peak	---	---

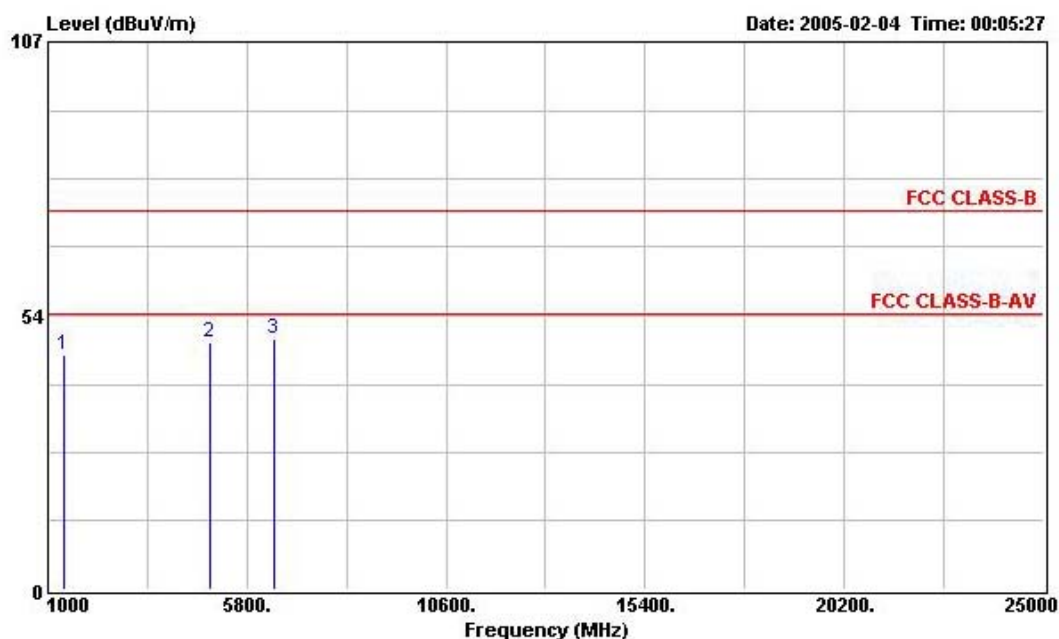
Note:

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

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

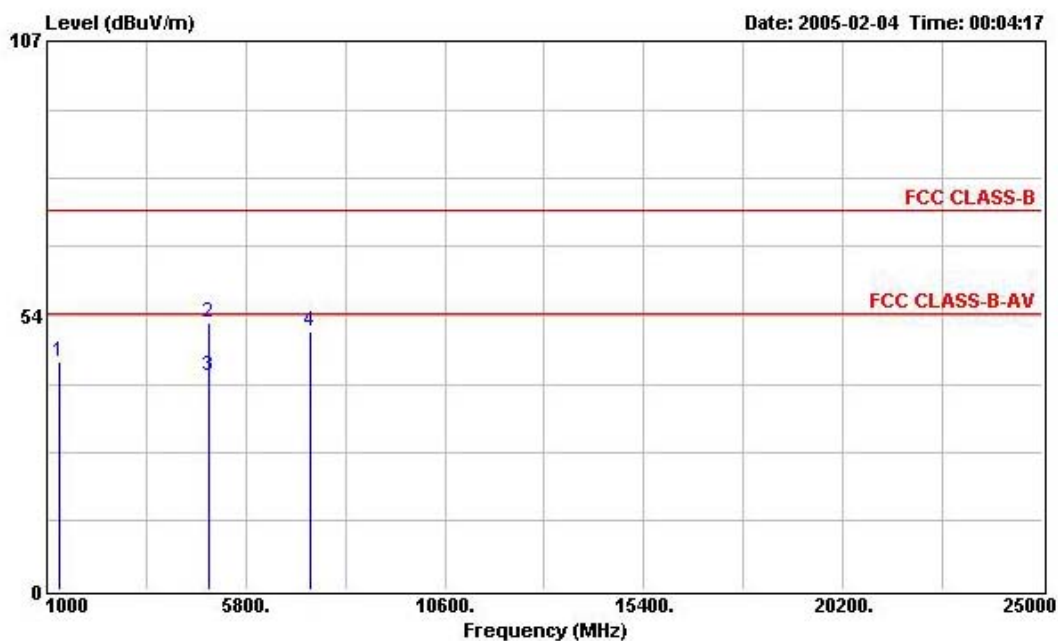
Mode 2

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
			Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1396.000	45.79	-28.21	74.00	58.66	24.91	1.41	39.19	Peak	---	---
2	4928.000	48.25	-25.75	74.00	52.29	33.21	2.90	40.15	Peak	---	---
3	6452.000	49.07	-24.93	74.00	51.12	34.27	3.39	39.71	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	44.50	-29.50	74.00	57.62	24.73	1.36	39.21	Peak	---	---
2	4924.000	52.00	-22.00	74.00	56.04	33.21	2.90	40.15	Peak	---	---
3	4924.000	41.55	-12.45	54.00	45.59	33.21	2.90	40.15	Average	---	---
4	7344.000	50.52	-23.48	74.00	50.18	36.13	3.66	39.45	Peak	---	---

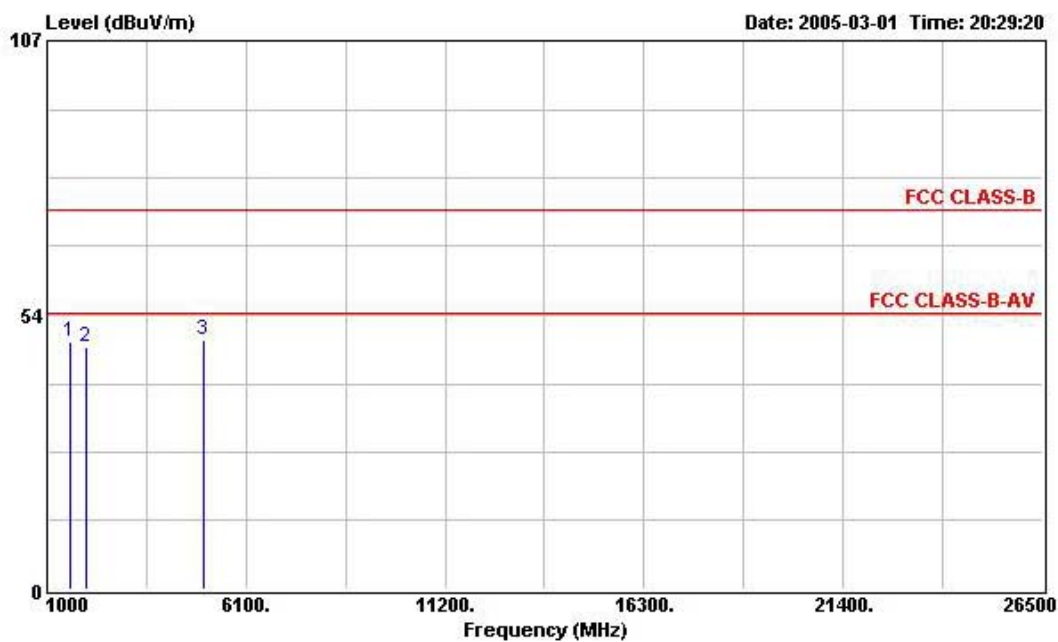
Note:

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

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

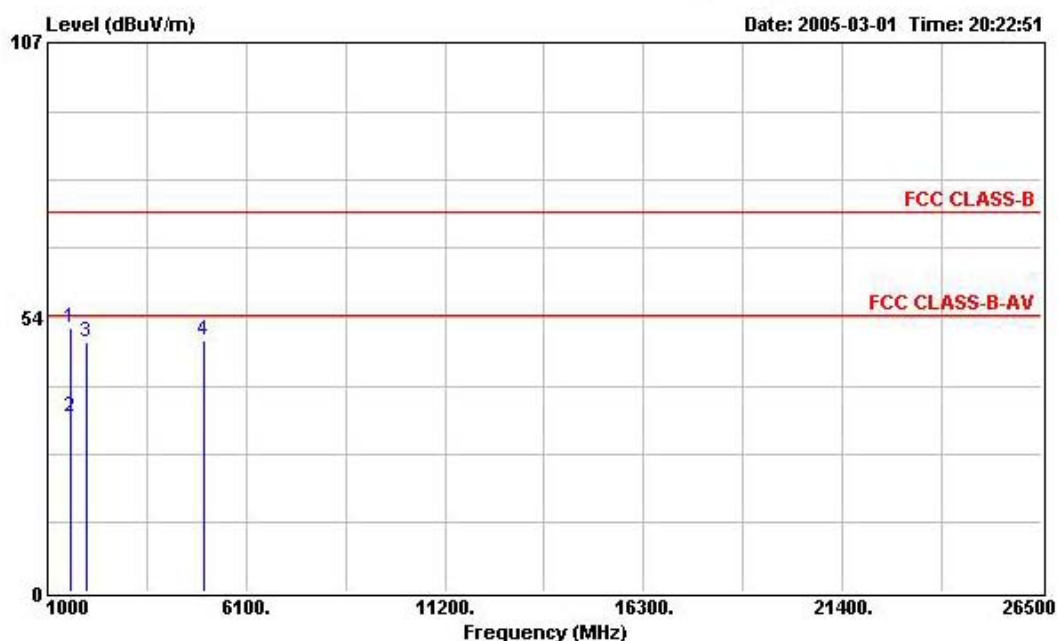
Mode 3

(A) Polarization: Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1596.000	48.25	-25.75	74.00	60.41	25.60	1.52	39.28	Peak	---	---
2	1998.000	47.25	-26.75	74.00	57.78	27.40	1.72	39.65	Peak	---	---
3	5000.000	48.69	-25.31	74.00	52.60	33.32	2.92	40.15	Peak	100	0

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1596.000	51.35	-22.65	74.00	63.51	25.60	1.52	39.28	Peak	---	---
2	1596.000	34.12	-19.88	54.00	46.28	25.60	1.52	39.28	Average	---	---
3	1998.000	48.49	-25.51	74.00	59.02	27.40	1.72	39.65	Peak	---	---
4	5000.000	49.08	-24.92	74.00	52.99	33.32	2.92	40.15	Peak	100	360

Note:

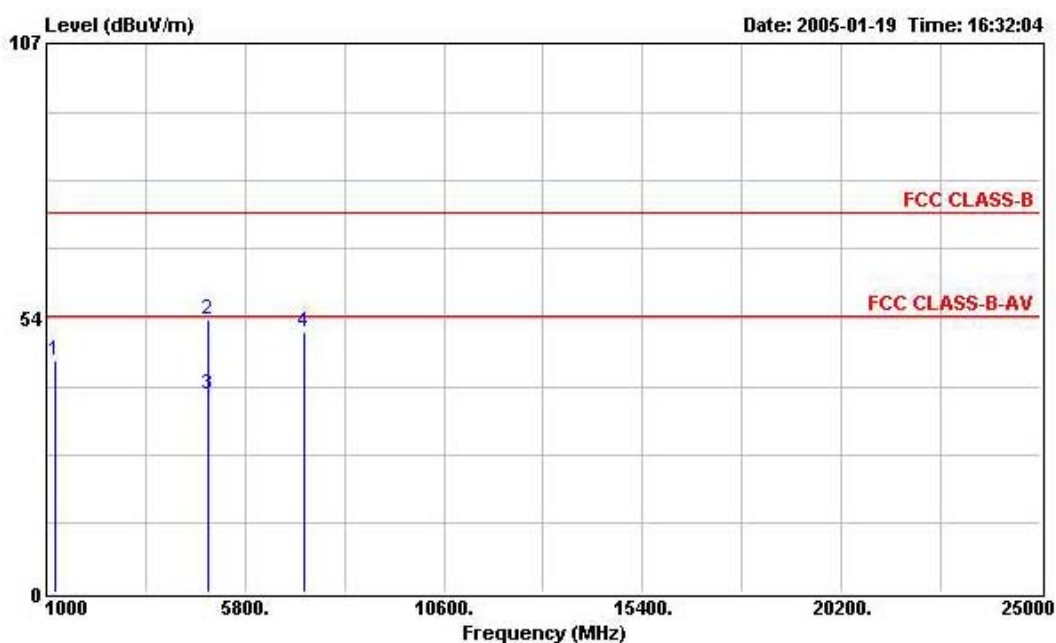
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

- Modulation Type: OFDM
- Temperature: 26°C
- Relative Humidity: 64%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

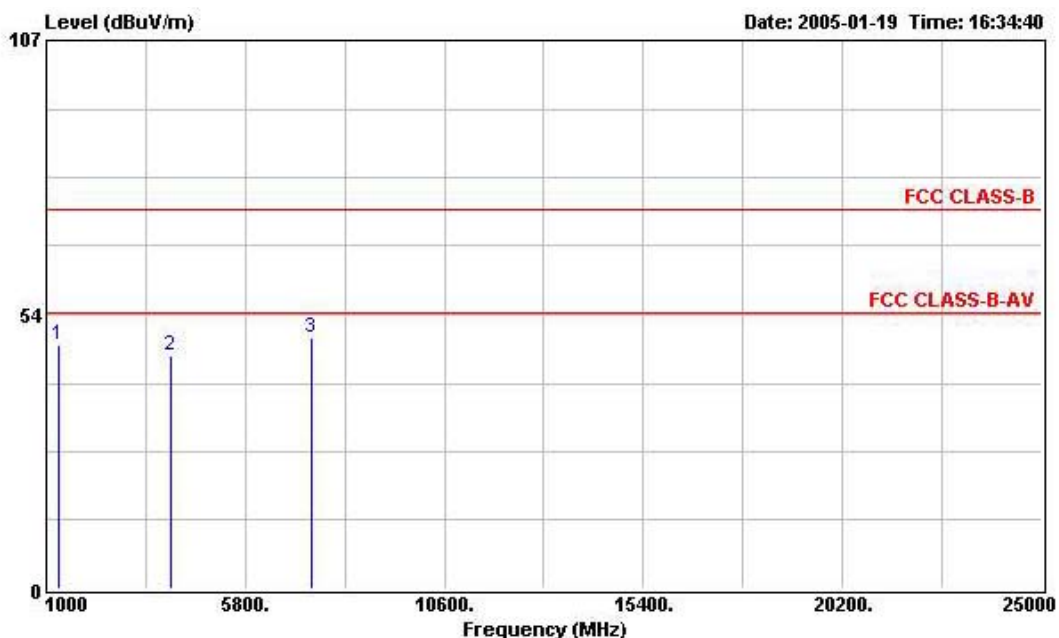
Mode 1

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1196.000	45.08	-28.92	74.00	58.44	24.54	1.32	39.22	Peak	---	---
2	4928.000	53.21	-20.79	74.00	57.25	33.21	2.90	40.15	Peak	---	---
3	4928.000	38.55	-15.45	54.00	42.59	33.21	2.90	40.15	Average	---	---
4	7220.000	50.84	-23.16	74.00	50.93	35.77	3.62	39.48	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1300.000	47.48	-26.52	74.00	60.60	24.73	1.36	39.21	Peak	---	---
2	3988.000	45.66	-28.34	74.00	50.12	32.46	2.49	39.41	Peak	---	---
3	7388.000	49.04	-24.96	74.00	48.50	36.29	3.68	39.43	Peak	---	---

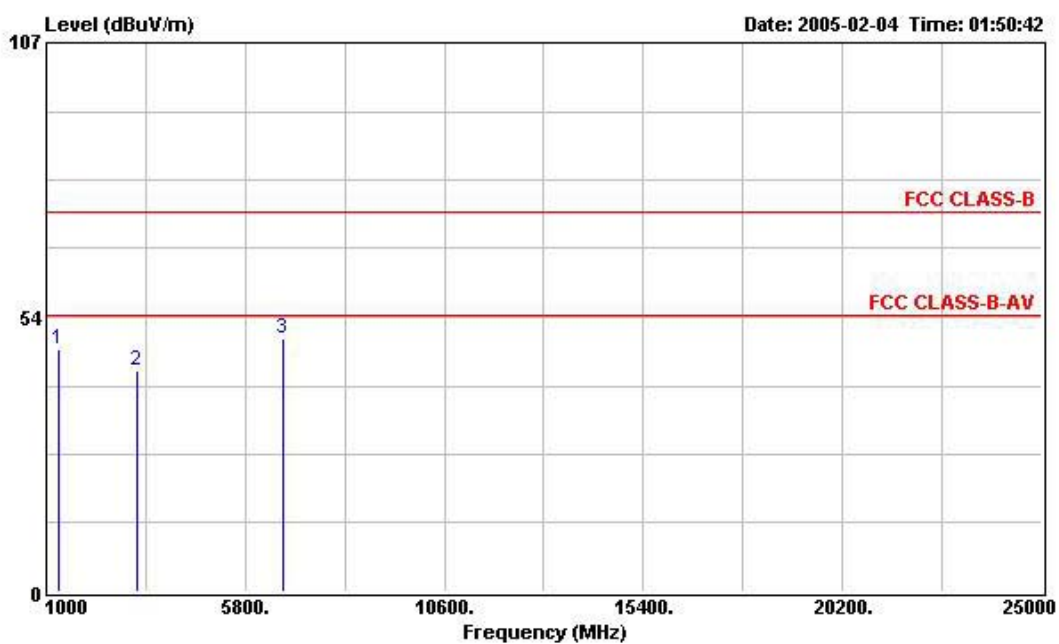
Note:

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

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

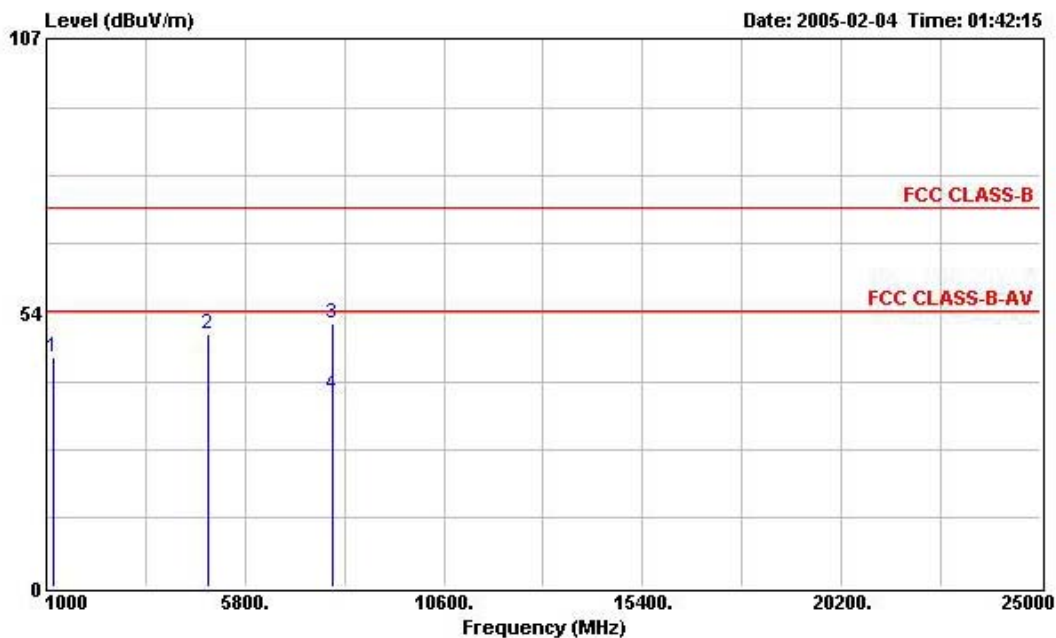
Mode 2

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	47.17	-26.83	74.00	60.29	24.73	1.36	39.21	Peak	---	---
2	3192.000	42.95	-31.05	74.00	49.42	30.48	2.26	39.21	Peak	---	---
3	6724.000	49.23	-24.77	74.00	50.77	34.63	3.46	39.63	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1192.000	44.71	-29.29	74.00	58.07	24.54	1.32	39.22	Peak	---	---
2	4920.000	49.42	-24.58	74.00	53.53	33.14	2.89	40.14	Peak	---	---
3	7900.000	51.33	-22.67	74.00	49.72	37.02	3.86	39.27	Peak	---	---
4	7900.000	37.62	-16.38	54.00	36.01	37.02	3.86	39.27	Average	---	---

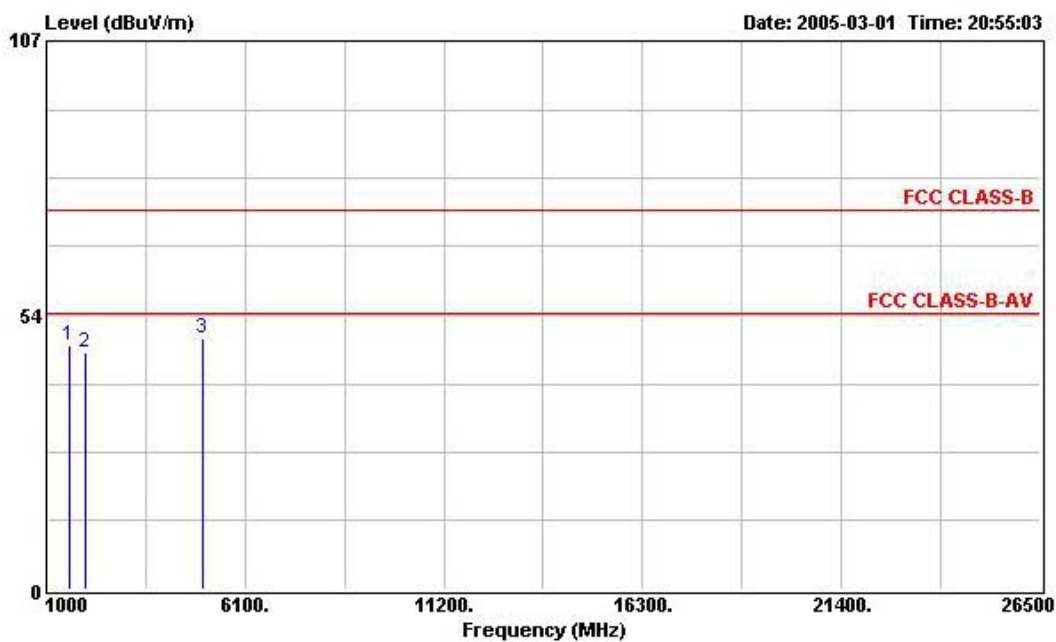
Note:

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

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

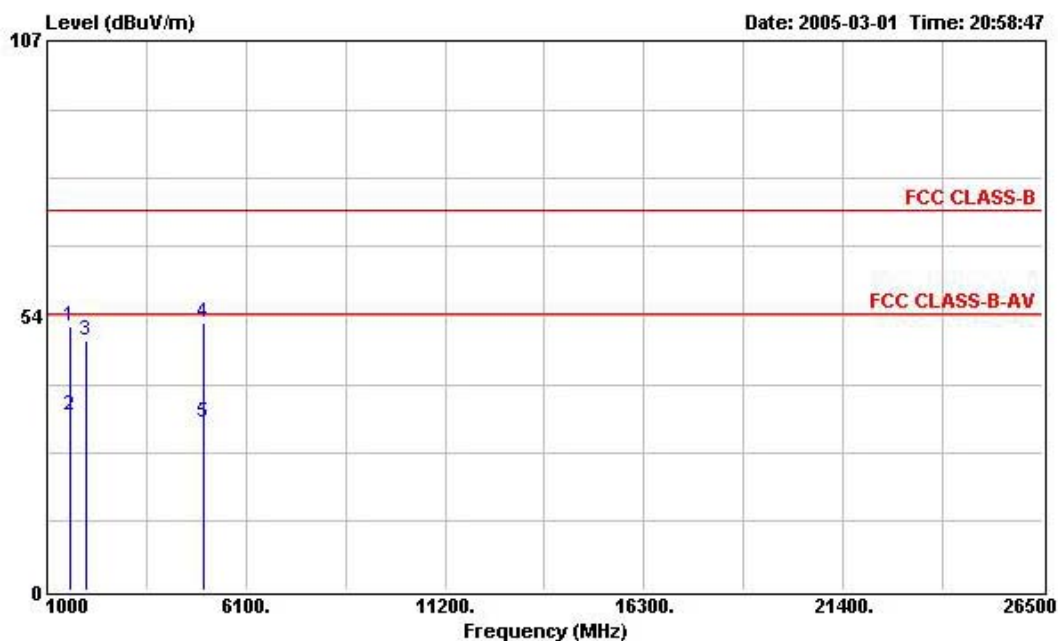
Mode 3

(A) Polarization: Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1596.000	47.50	-26.50	74.00	59.66	25.60	1.52	39.28	Peak	---	---
2	1996.000	46.28	-27.72	74.00	56.81	27.40	1.72	39.65	Peak	---	---
3	4992.000	48.91	-25.09	74.00	52.82	33.32	2.92	40.15	Peak	100	360

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1596.000	51.52	-22.48	74.00	63.68	25.60	1.52	39.28	Peak	---	---
2	1596.000	34.06	-19.94	54.00	46.22	25.60	1.52	39.28	Average	---	---
3	2004.000	48.76	-25.24	74.00	59.26	27.42	1.73	39.65	Peak	---	---
4	5000.000	52.02	-21.98	74.00	55.93	33.32	2.92	40.15	Peak	100	0
5	5000.000	32.73	-21.27	54.00	36.64	33.32	2.92	40.15	Average	---	---

Note:

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

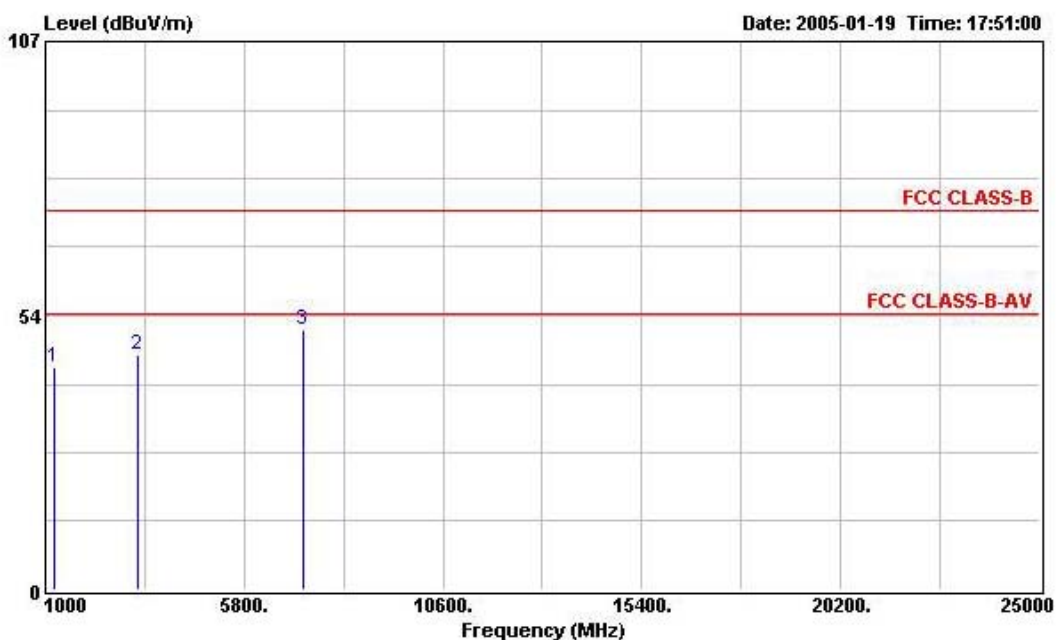
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

5.6.11. Test Results for CH 06 / 2437MHz (for emission above 1GHz)

- Modulation Type: OFDM (Turbo Mode)
- Temperature: 26°C
- Relative Humidity: 64%
- Duty Cycle of the Equipment during the Test: 100.00%
- Test Engineer: Ted Chiu

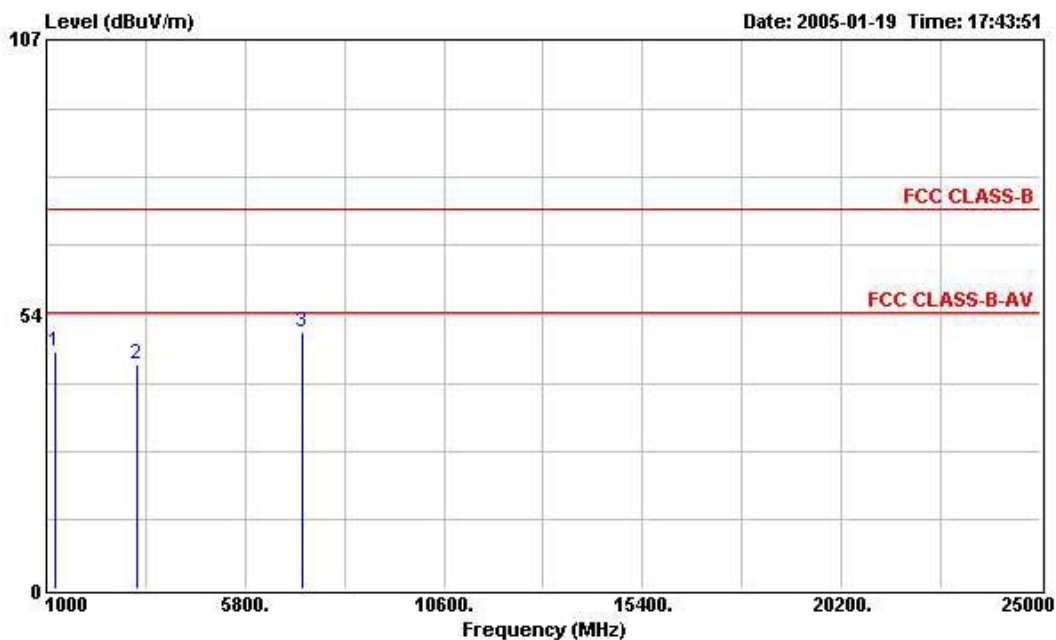
Mode 1

(A) Polarization: Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1196.000	43.38	-30.62	74.00	56.74	24.54	1.32	39.22	Peak	---	---
2	3248.000	46.03	-27.97	74.00	52.22	30.67	2.28	39.14	Peak	---	---
3	7216.000	50.63	-23.37	74.00	50.72	35.77	3.62	39.48	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1196.000	46.12	-27.88	74.00	59.48	24.54	1.32	39.22	Peak	---	---
2	3188.000	43.94	-30.06	74.00	50.41	30.48	2.26	39.21	Peak	---	---
3	7164.000	50.19	-23.81	74.00	50.47	35.62	3.60	39.50	Peak	---	---

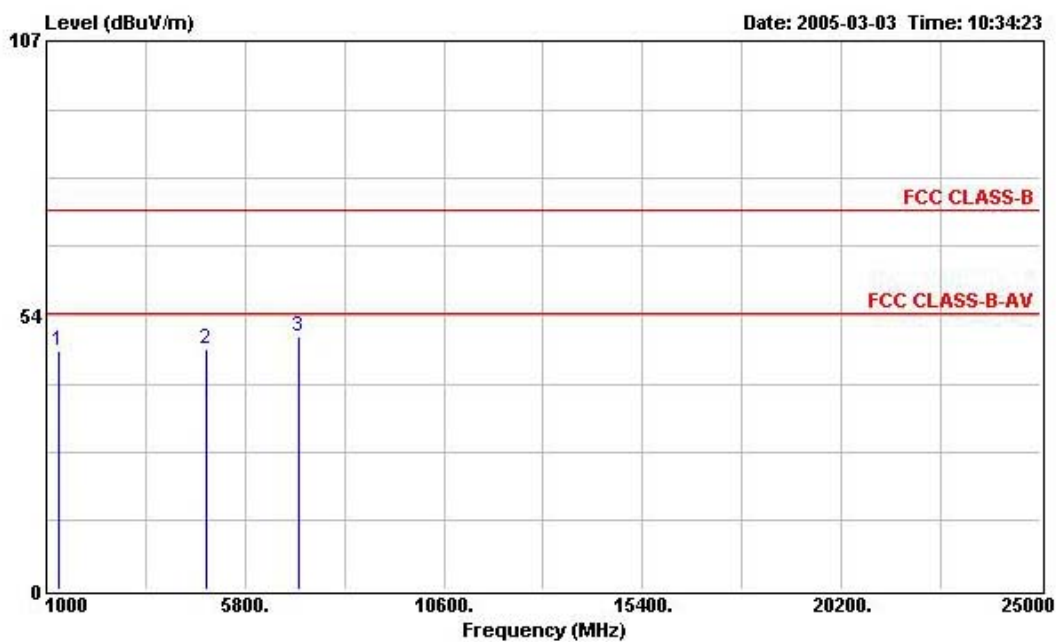
Note:

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

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

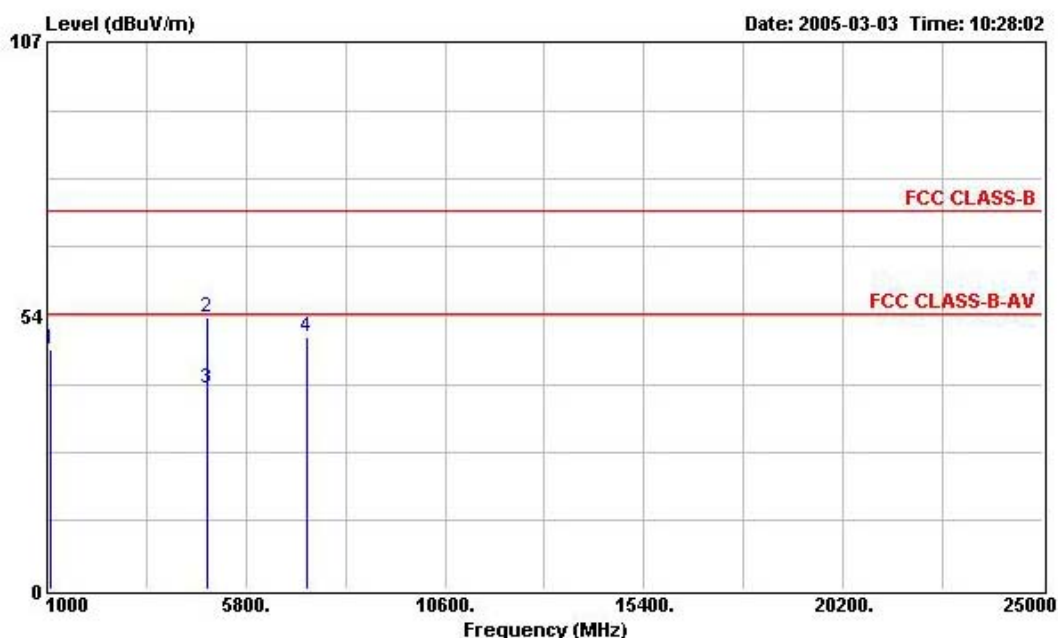
Mode 2

(A) Polarization: Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1296.000	46.39	-27.61	74.00	59.51	24.73	1.36	39.21	Peak	---	---
2	4876.000	46.81	-27.19	74.00	50.97	33.11	2.87	40.14	Peak	---	---
3	7096.000	49.28	-24.72	74.00	49.81	35.41	3.58	39.52	Peak	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1096.000	47.02	-26.98	74.00	60.59	24.39	1.27	39.23	Peak	---	---
2	4876.000	53.06	-20.94	74.00	57.22	33.11	2.87	40.14	Peak	---	---
3	4876.000	39.26	-14.74	54.00	43.42	33.11	2.87	40.14	Average	---	---
4	7276.000	49.35	-24.65	74.00	49.19	35.98	3.64	39.46	Peak	---	---

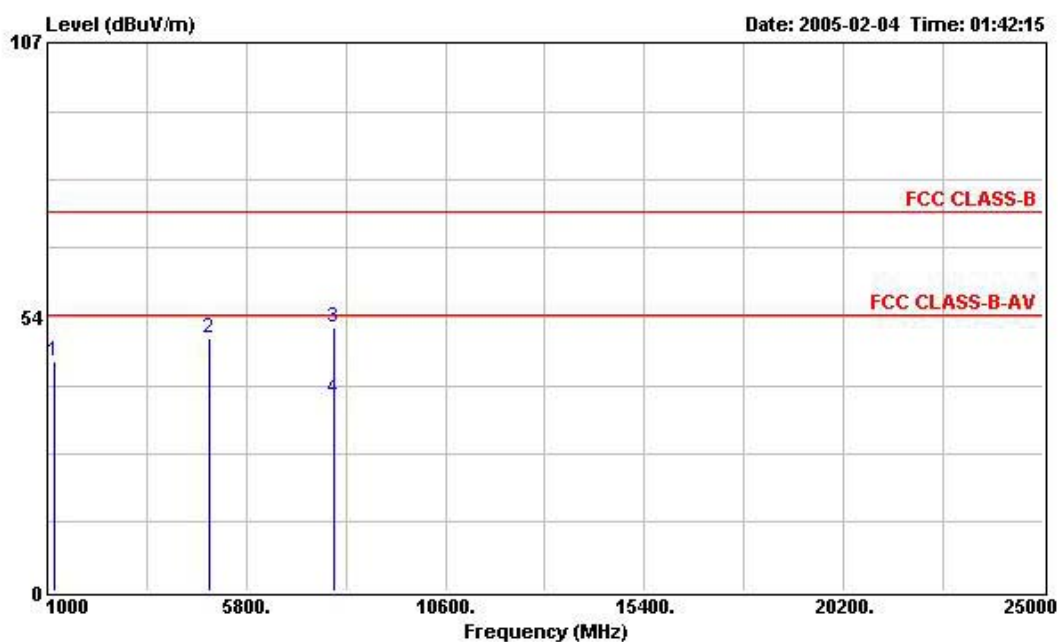
Note:

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

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

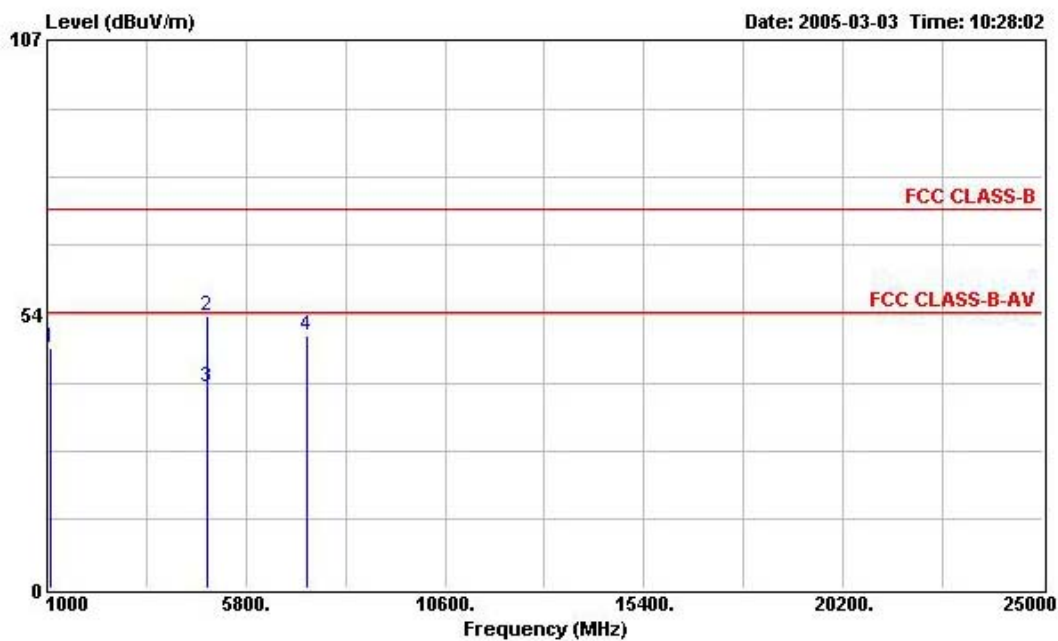
Mode 3

(A) Polarization: Horizontal



	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1192.000	44.71	-29.29	74.00	58.07	24.54	1.32	39.22	Peak	---	---
2	4920.000	49.42	-24.58	74.00	53.53	33.14	2.89	40.14	Peak	---	---
3	7900.000	51.33	-22.67	74.00	49.72	37.02	3.86	39.27	Peak	---	---
4	7900.000	37.62	-16.38	54.00	36.01	37.02	3.86	39.27	Average	---	---

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1096.000	47.02	-26.98	74.00	60.59	24.39	1.27	39.23	Peak	---	---
2	4876.000	53.06	-20.94	74.00	57.22	33.11	2.87	40.14	Peak	---	---
3	4876.000	39.26	-14.74	54.00	43.42	33.11	2.87	40.14	Average	---	---
4	7276.000	49.35	-24.65	74.00	49.19	35.98	3.64	39.46	Peak	---	---

Note:

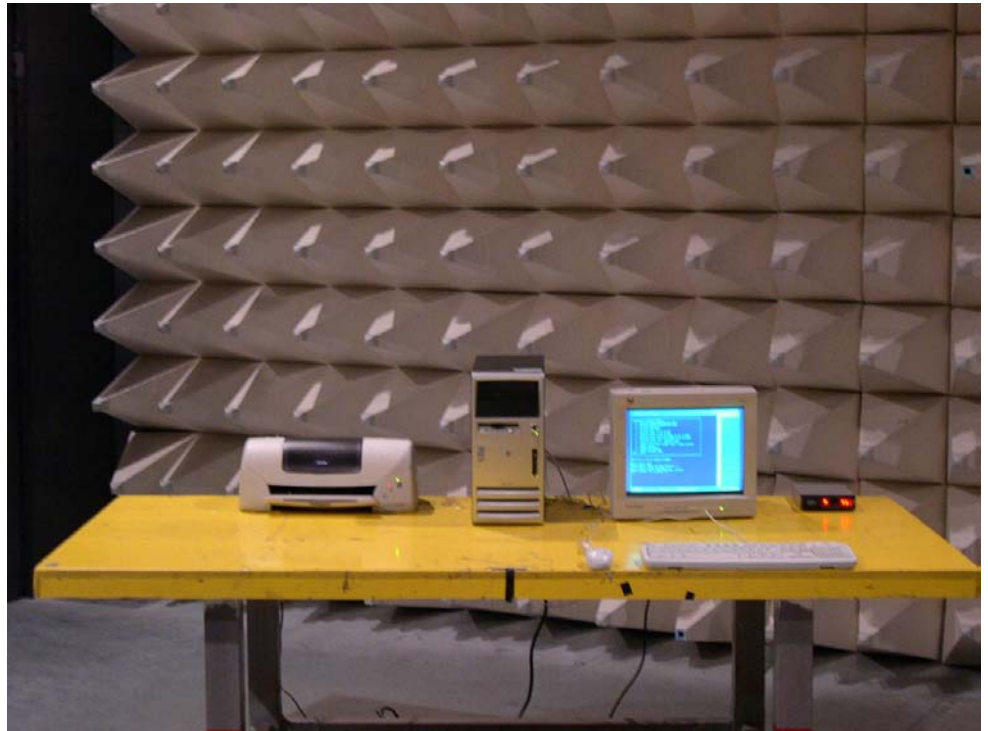
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

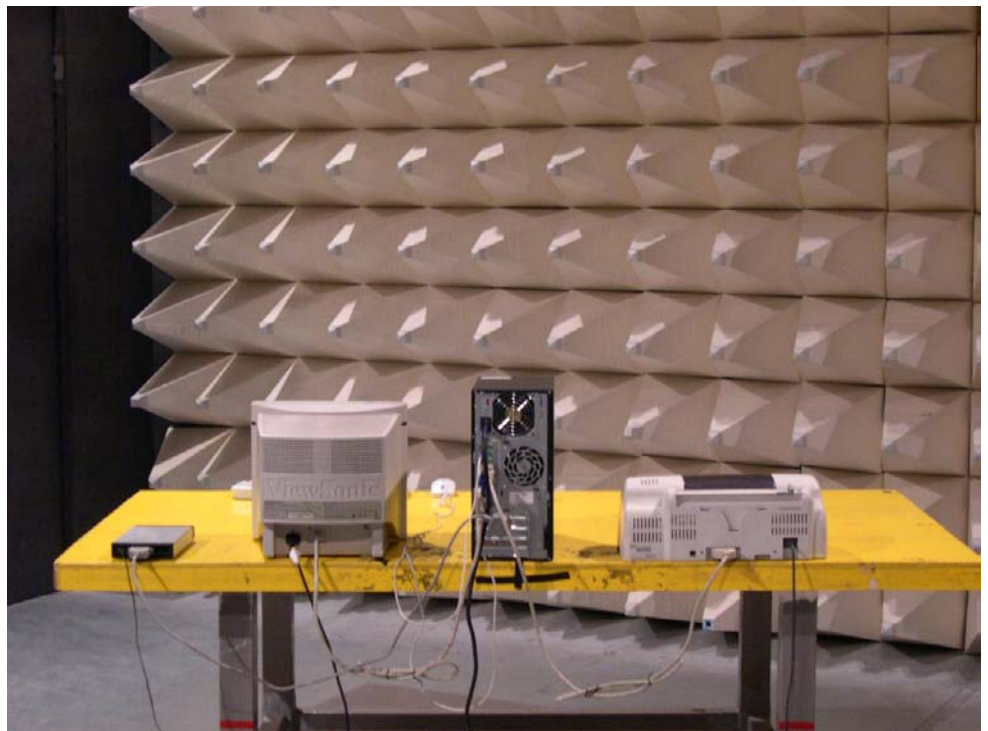
5.6.12. Photographs of Radiated Emission Test Configuration

Mode 1

FRONT VIEW

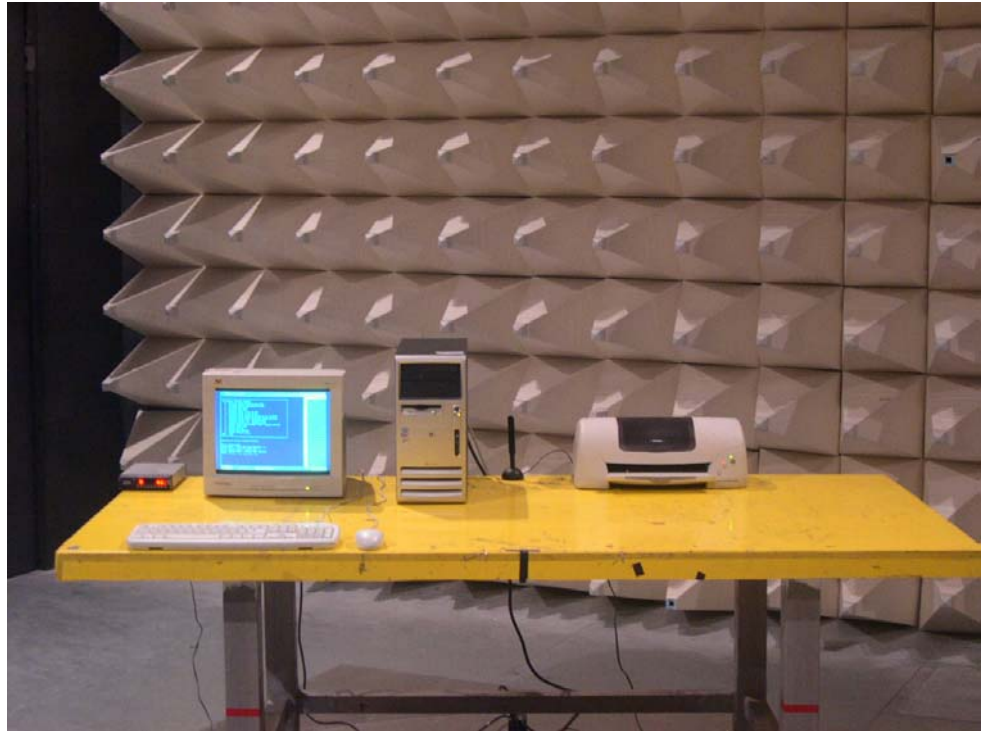


REAR VIEW

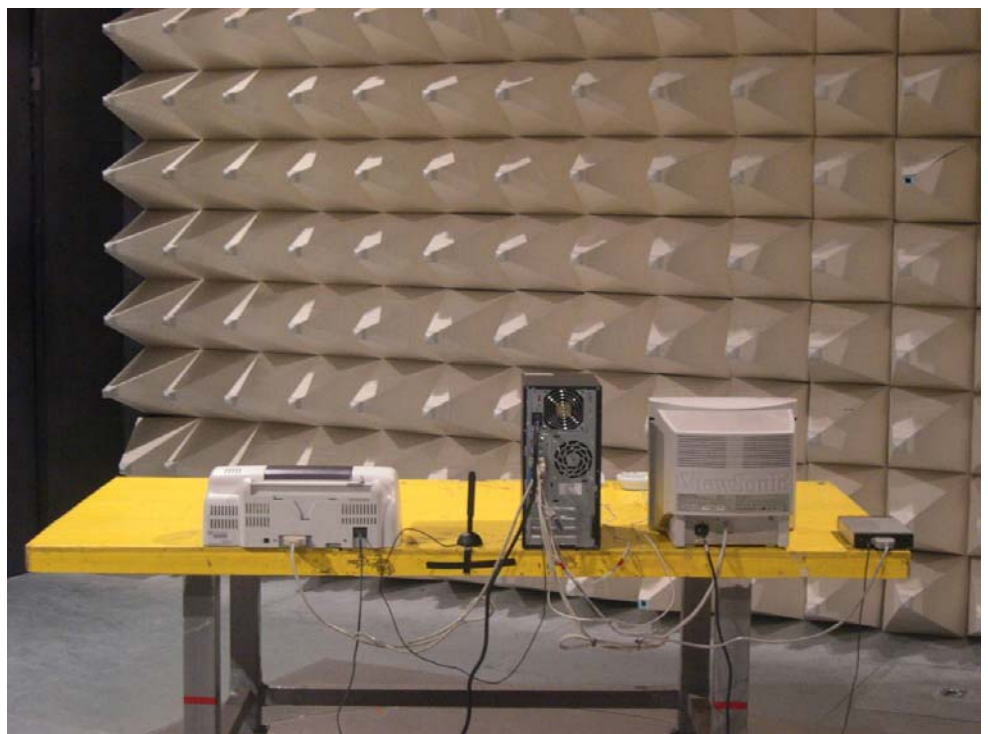


Mode 2

FRONT VIEW

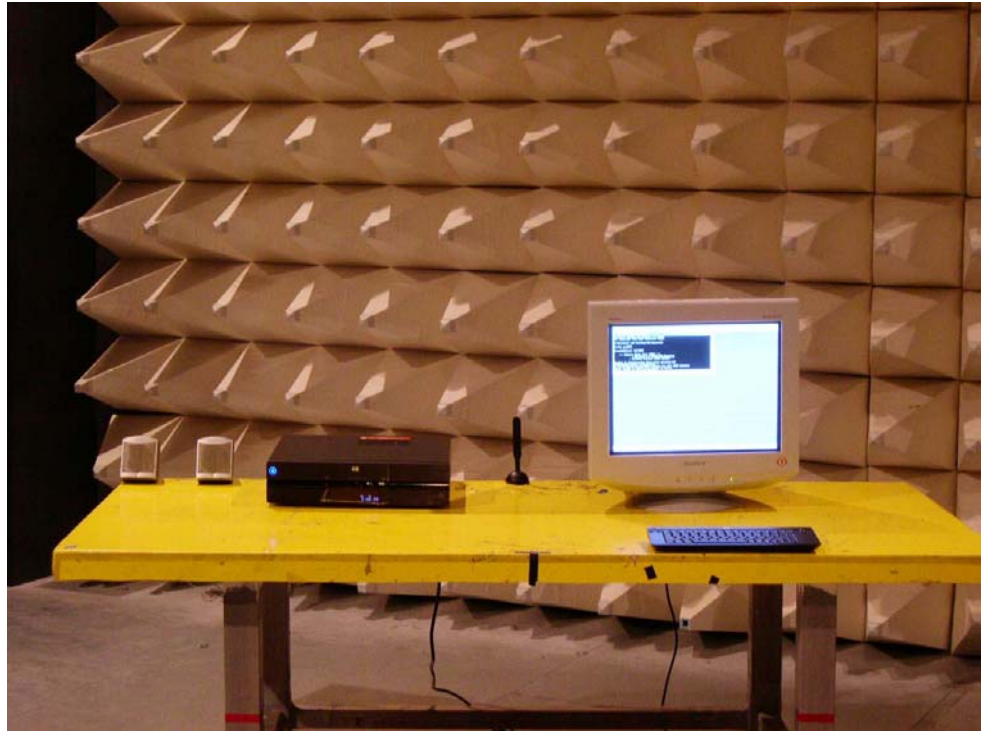


REAR VIEW

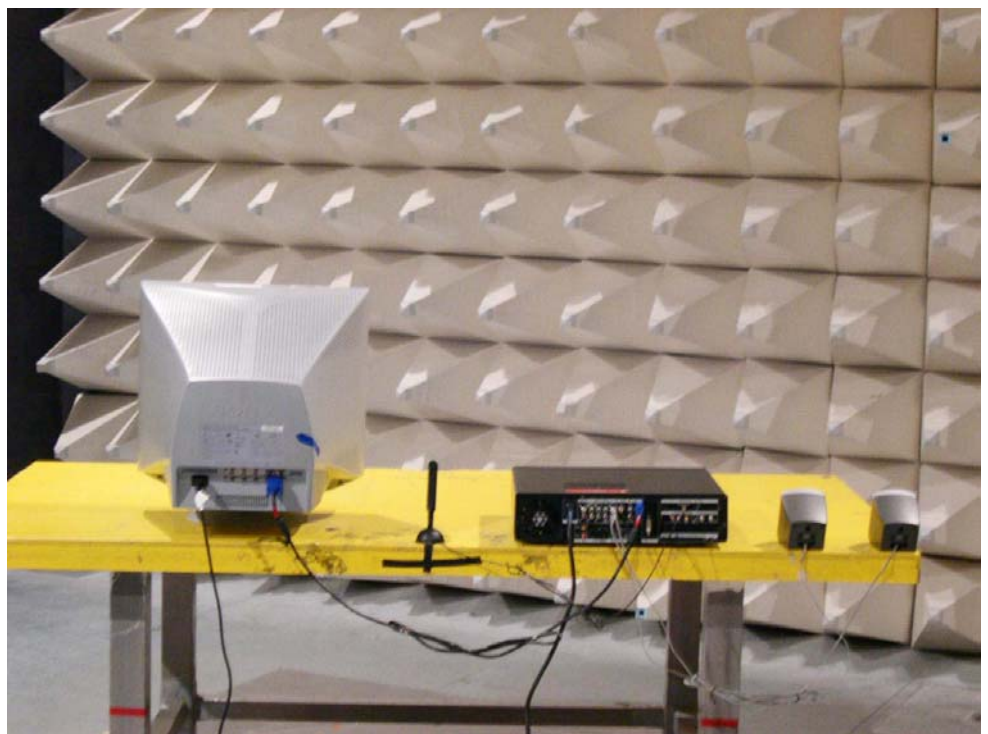


Mode 3

FRONT VIEW



REAR VIEW



5.7. Antenna Requirements

5.7.1. Standard Applicable

Section 15.203:

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Section 15.247(b)/(c):

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

5.7.2. Antenna Connected Construction

Please refer to section 1.5.

5.7.3. Antenna Gain

Please refer to section 1.5. antennas gain of EUT are less than 6dBi. Therefore peak conducted power limit shall not be degraded any more. Antenna report of manufacturer will have more detail antenna gain or antenna pattern.

5.7.4. Test Criteria

All test results complied with the requirements of 15.203/15.247(b)/(c).

5.8. RF Exposure

5.8.1. Limit For Maximum Permissible Exposure (MPE)

This product can be classified as mobile device, so the 20cm separation distance warning is required. In this section, the power density at 20cm location is calculated to examine if it is lower than the limit.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

F = frequency in MHz

*Plane-wave equivalent power density

5.8.2. MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (mW/cm}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=20cm, as well as the gain of the used antenna, the RF power density can be obtained.

5.8.3. Calculated Result and Limit

- Modulation Type: DSSS
- Temperature: 26°C
- Relative Humidity: 64%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Antenna 1

Channel No.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
01	2.50	1.78	20.20	104.71	0.0371	1
06	2.50	1.78	20.50	112.20	0.0398	1
11	2.50	1.78	19.50	89.13	0.0316	1

Antenna 2

Channel No.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
01	2.00	1.58	20.20	104.71	0.0329	1
06	2.00	1.58	20.50	112.20	0.0353	1
11	2.00	1.58	19.50	89.13	0.0280	1

Antenna 3, 4

Channel No.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
01	3.00	2.00	20.20	104.71	0.0417	1
06	3.00	2.00	20.50	112.20	0.0447	1
11	3.00	2.00	19.50	89.13	0.0355	1

- Modulation Type: OFDM
- Temperature: 26°C
- Relative Humidity: 64%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Antenna 1

Channel No.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
01	2.50	1.78	19.80	95.50	0.0338	1
06	2.50	1.78	19.70	93.33	0.0331	1
11	2.50	1.78	19.10	81.28	0.0288	1

Antenna 2

Channel No.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
01	2.00	1.58	19.80	95.50	0.0300	1
06	2.00	1.58	19.70	93.33	0.0294	1
11	2.00	1.58	19.10	81.28	0.0256	1

Antenna 3, 4

Channel No.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
01	3.00	2.00	19.80	95.50	0.0380	1
06	3.00	2.00	19.70	93.33	0.0372	1
11	3.00	2.00	19.10	81.28	0.0324	1

6. List of Measuring Equipments Used

Items	Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
1	EMC Receiver	R&S	ESCS 30	100174	9 KHz – 2.75 GHz	Feb. 15, 2005	Conduction (CO04-HY)
2	LISN	MessTec	NNB-2/16Z	2001/004	9 KHz – 30 MHz	Jun. 09, 2004	Conduction (CO04-HY)
3	LISN (Support Unit)	MessTec	NNB-2/16Z	99041	9 KHz – 30 MHz	Apr. 27, 2004	Conduction (CO04-HY)
4	EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
5	RF Cable-CON	UTIFLEX	3102-26886-4	CB044	9KHz~30MHz	Apr. 21, 2004	Conduction (CO04-HY)
6	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	Jun. 21, 2004	Radiation (03CH03-HY)
7	Spectrum analyzer	R&S	FSP40	100004	9KHZ~40GHz	Aug. 31, 2004	Radiation (03CH03-HY)
8	Amplifier	SCHAFFNER	CPA9231A	18667	9KHz – 2GHz	Jan. 10, 2005	Radiation (03CH03-HY)
9	Biconical Antenna	SCHWARZBECK	VHBB 9124	301	30MHz – 200MHz	Jul. 28, 2004	Radiation (03CH03-HY)
10	Log Antenna	SCHWARZBECK	VUSLP 9111	221	200MHz -1GHz	Jul. 28, 2004	Radiation (03CH03-HY)
11	RF Cable-R03m	Jye Bao	RG142	CB021	30MHz~1GHz	Feb. 22, 2005	Radiation (03CH03-HY)
12	Amplifier	MITEQ	AFS44	849984	100MHz~26.5GHz	Mar. 26, 2004	Radiation (03CH03-HY)
13	Horn Antenna	EMCO	3115	6741	1GHz – 18GHz	Apr. 07, 2004	Radiation (03CH03-HY)
14	Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	Radiation (03CH03-HY)
15	Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
16	Horn Antenna	Schwarzbeck	BBHA9170	154	18GHz~40GHz	Jun. 09, 2004	Radiation (03CH03-HY)
17	RF Cable-HIGH	Jye Bao	RG142	CB030-HIGH	1GHz~29.5GHz	Dec.01, 2004	Radiation (03CH03-HY)

※ Calibration Interval of instruments listed above is one year.

Items	Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
18	Spectrum analyzer	R&S	FSP30	100023	9KHZ~30GHZ	Aug. 02, 2004	Conducted (TH01-HY)
19	Power meter	R&S	NRVS	100444	DC~40GHz	Jun. 15, 2004	Conducted (TH01-HY)
20	Power sensor	R&S	NRV-Z55	100049	DC~40GHz	Jun. 15, 2004	Conducted (TH01-HY)
21	Power Sensor	R&S	NRV-Z32	100057	30MHz-6GHz	Jun. 15, 2004	Conducted (TH01-HY)
22	AC power source	HPC	HPA-500W	HPA-9100024	AC 0~300V	Jun. 16, 2004	Conducted (TH01-HY)
23	AC power source	G.W.	GPC-6030D	C671845	DC 1V~60V	Nov. 05, 2004	Conducted (TH01-HY)
24	Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2004	Conducted (TH01-HY)
25	RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz~7GHz	Jan. 01, 2005	Conducted (TH01-HY)
26	RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz~1GHz	Jan. 01, 2005	Conducted (TH01-HY)

※ Calibration Interval of instruments listed above is one year.

7. 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.

7.1. Certificate of Accreditation

Taiwan	BSMI, CNLA, DGT
USA	FCC, NVLAP, UL
EU	Nemko, TUV
Japan	VCCI
Canada	Industry Canada

7.2. 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., Hwa Ya Technology Park, 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

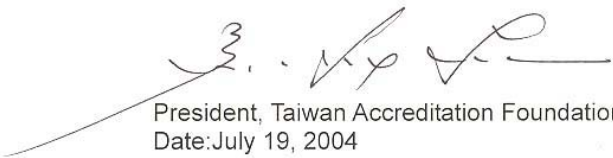
8. CNLA Certificate of Accreditation

Test Lab. : Sporton International Inc.
Accreditation Number : 1190
Originally Accredited : 2003/12/15
Effective Period : 2003/12/15~2006/12/14
Accredited Scope : 47 CFR FCC Part 15 Subpart C (9kHz~40GHz)



Taiwan Accreditation Foundation
Chinese National Laboratory Accreditation
Certificate of Accreditation

Accreditation Criteria: ISO 17025
Accreditation Number: 1190
Organization/Laboratory: EMC & Wireless Communications Laboratory, Sporton International Inc.
Originally Accredited: December 15, 2003
Effective Period: December 15, 2003 To December 14, 2006
Accredited Scope: Electrical Testing Field, 7 items, details shown in the following pages.
Specific Accreditation Program: Recognition and Approval of Designated Laboratory for Commodities Inspection


President, Taiwan Accreditation Foundation
Date: July 19, 2004

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