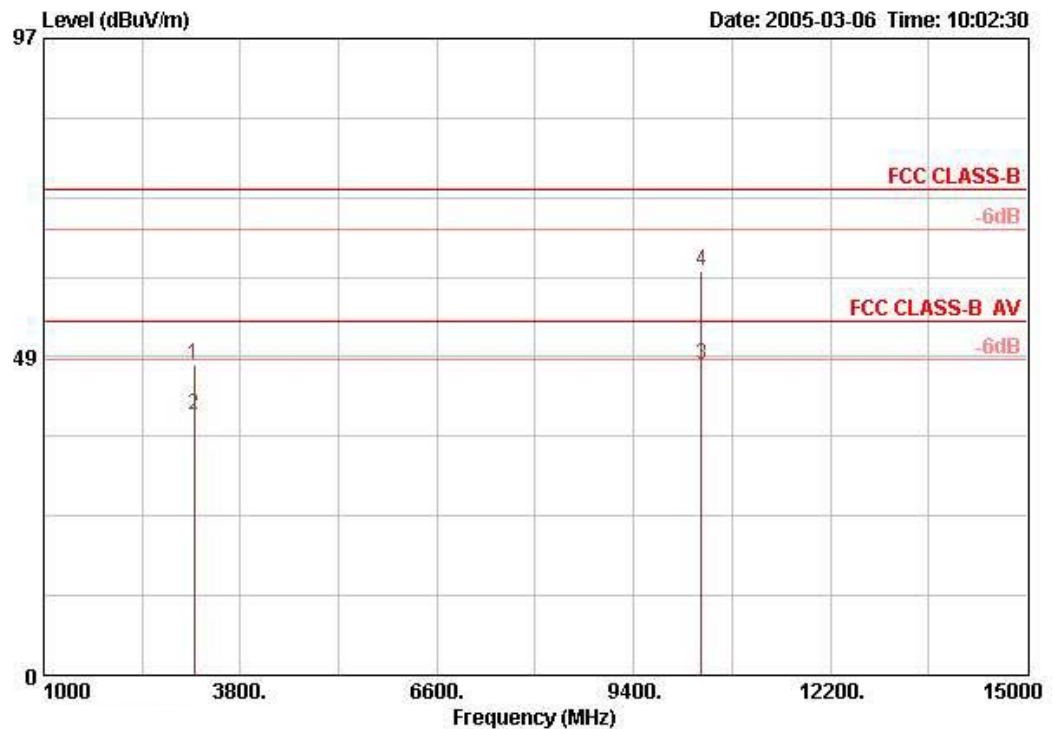


5.8.5. Test Results for CH 36 / 5180 MHz (for emission above 1GHz)

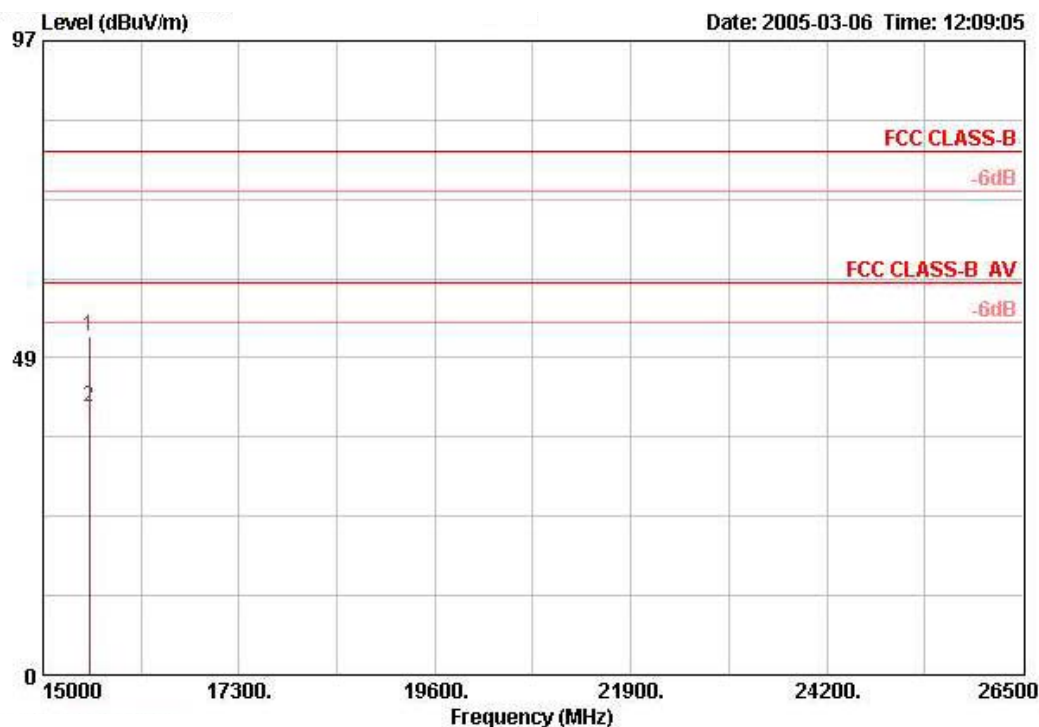
- Temperature: 15°C
- Relative Humidity: 62%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Mode 1

(A) Polarization: Horizontal

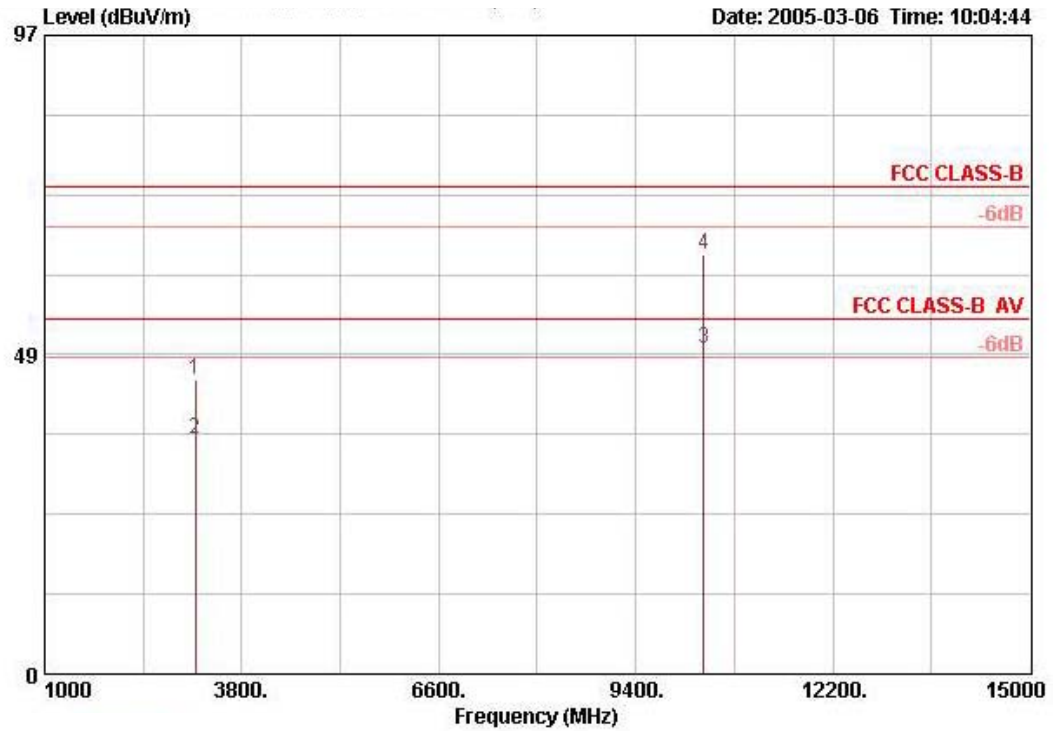


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3148.000	47.36	-26.64	74.00	30.50	1.83	36.60	51.63	HORIZONTAL	Peak
2	3148.000	39.55	-14.45	54.00	30.50	1.83	36.60	43.82	HORIZONTAL	Average
3	10360.000	47.33	-26.67	74.00	39.34	5.19	36.18	38.98	HORIZONTAL	Average
4	10360.000	61.55	-12.45	74.00	39.34	5.19	36.18	53.20	HORIZONTAL	Peak

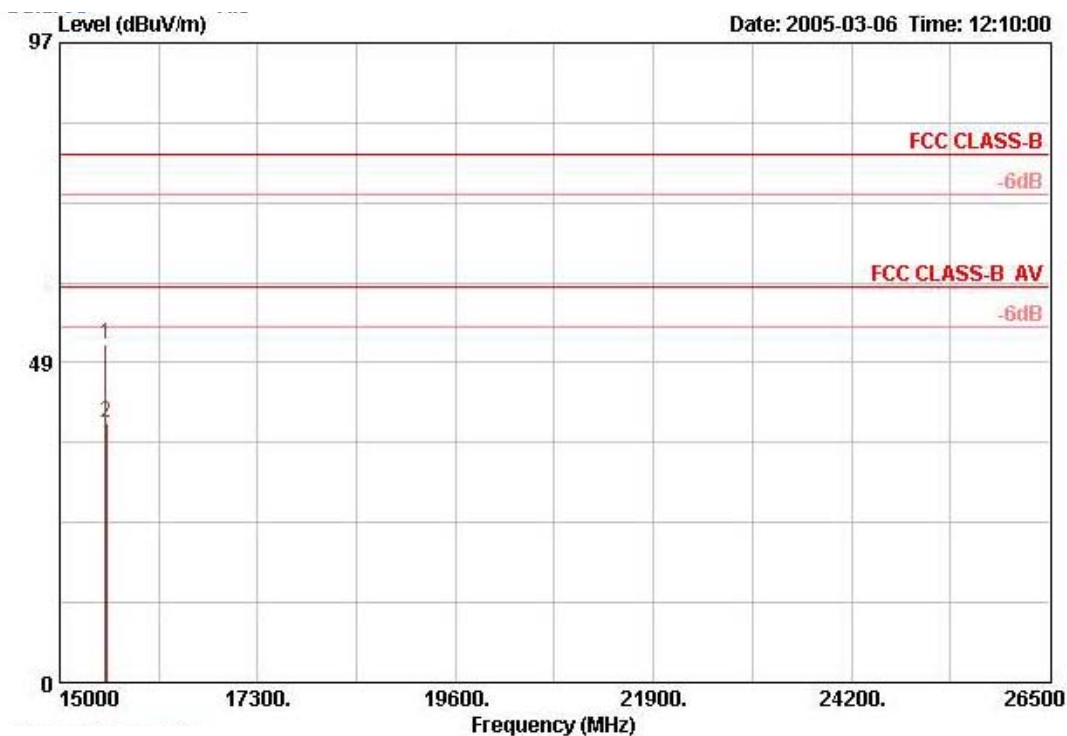


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15539.420	51.93	-28.07	80.00	37.19	6.77	36.38	44.36	HORIZONTAL	PEAK
2	15539.610	41.01	-18.99	60.00	37.19	6.77	36.38	33.43	HORIZONTAL	AVERAGE

(B) Polarization: Vertical



	Freq	Level	Limit	Line	Factor	na	Cable	Preamp	Read		
	MHz	dBuV/m	dB	dBuV/m	dB/m		Loss	Factor	Level	Pol/Phase	Remark
1	3148.000	44.68	-29.32	74.00	30.50		1.83	36.60	48.95	VERTICAL	Peak
2	3148.000	35.68	-18.32	54.00	30.50		1.83	36.60	39.95	VERTICAL	Average
3 !	10360.000	49.36	-4.64	54.00	39.34		5.19	36.18	41.01	VERTICAL	Average
4	10360.000	63.57	-10.43	74.00	39.34		5.19	36.18	55.22	VERTICAL	Peak



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
			dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15537.310	51.29	-28.71	80.00	37.19	6.77	36.38	43.71	VERTICAL	PEAK
2	15541.510	39.48	-20.52	60.00	37.19	6.77	36.38	31.91	VERTICAL	AVERAGE

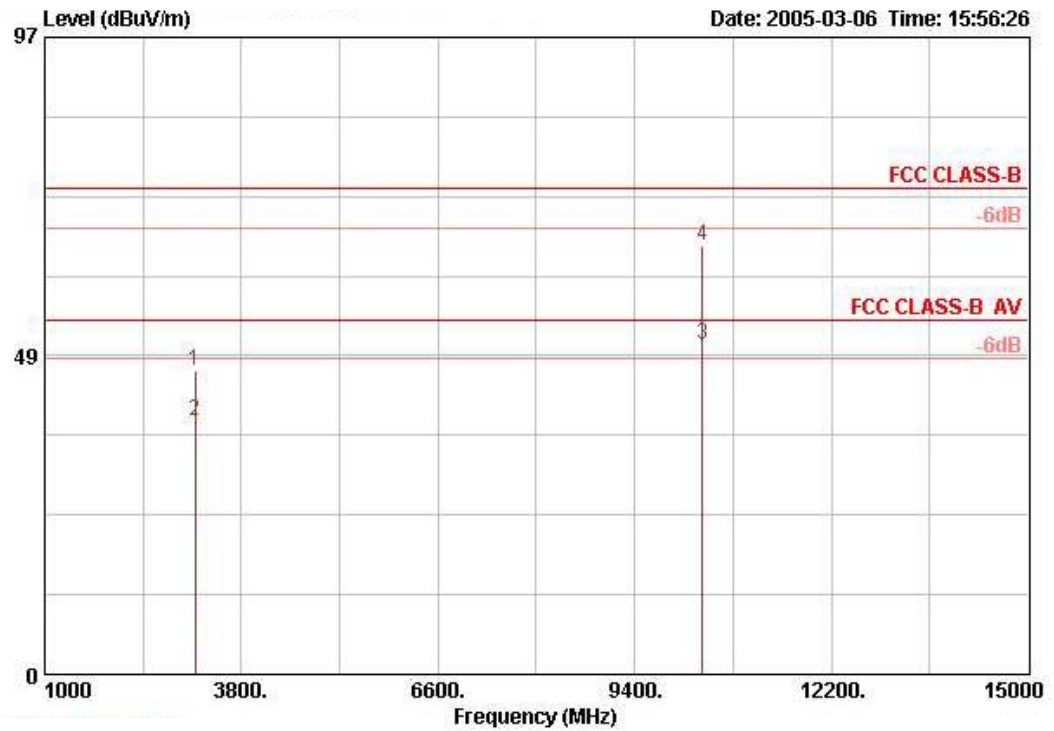
Note:

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

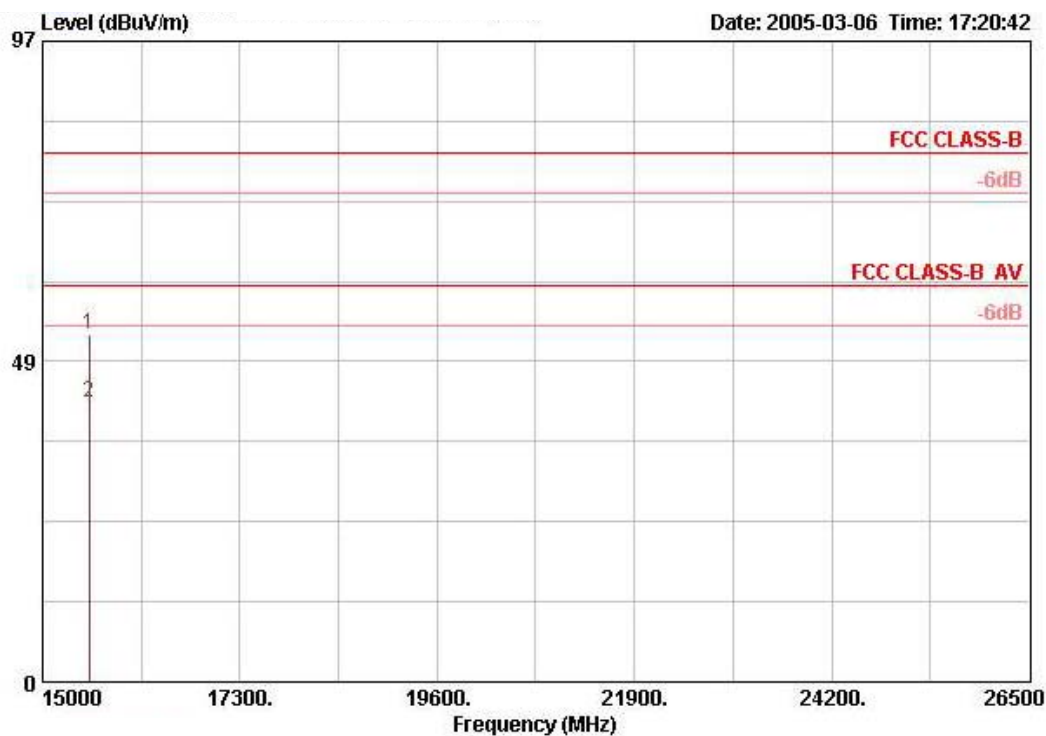
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

Mode 2

(A) Polarization: Horizontal

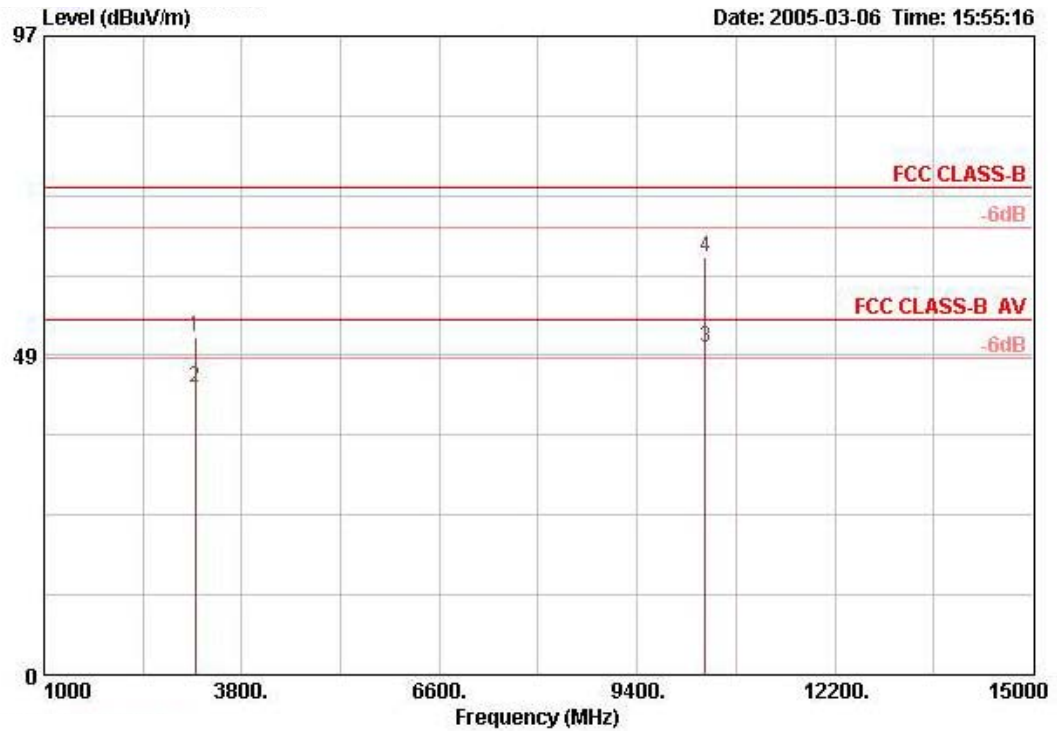


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3148.000	46.33	-27.67	74.00	30.50	1.83	36.60	50.60	HORIZONTAL	Peak
2	3148.000	38.68	-15.32	54.00	30.50	1.83	36.60	42.95	HORIZONTAL	Average
3	10360.000	50.28	-3.72	54.00	39.34	5.19	36.18	41.93	HORIZONTAL	Average
4	10360.000	65.24	-8.76	74.00	39.34	5.19	36.18	56.89	HORIZONTAL	Peak

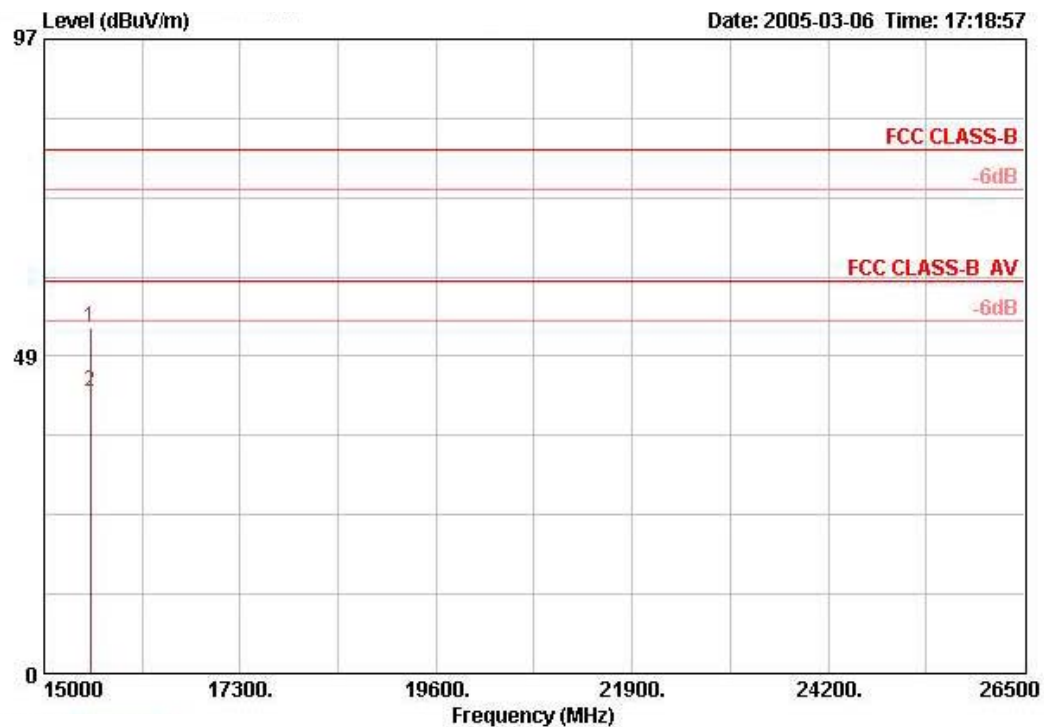


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15540.000	52.65	-27.35	80.00	37.19	6.77	36.38	45.08	HORIZONTAL	Peak
2	15540.000	42.39	-17.61	60.00	37.19	6.77	36.38	34.82	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3148.000	51.36	-22.64	74.00	30.50	1.83	36.60	55.63	VERTICAL	Peak
2	3148.000	43.52	-10.48	54.00	30.50	1.83	36.60	47.79	VERTICAL	Average
3	10360.000	49.65	-4.35	54.00	39.34	5.19	36.18	41.30	VERTICAL	Average
4	10360.000	63.33	-10.67	74.00	39.34	5.19	36.18	54.98	VERTICAL	Peak



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	Pol/Phase	Remark
1	15540.000	52.95	-27.05	80.00	37.19	6.77	36.38	45.38	VERTICAL	Peak
2	15540.000	42.95	-17.05	60.00	37.19	6.77	36.38	35.38	VERTICAL	Average

Note:

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

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

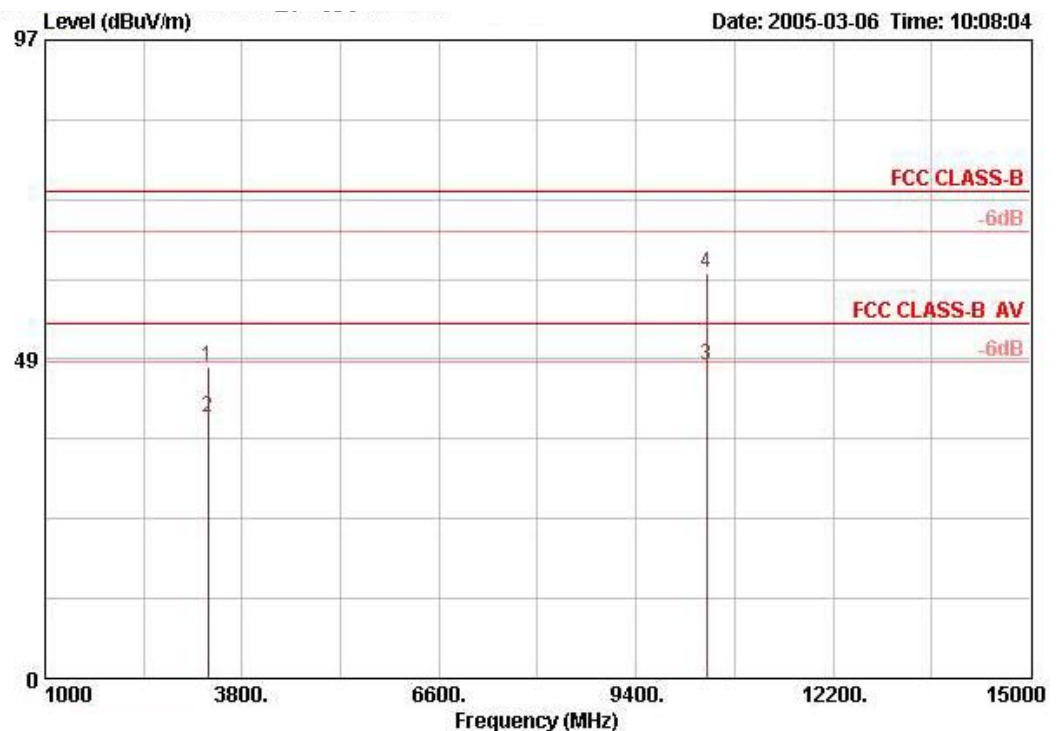


5.8.6. Test Results for CH 40/ 5200 MHz (for emission above 1GHz)

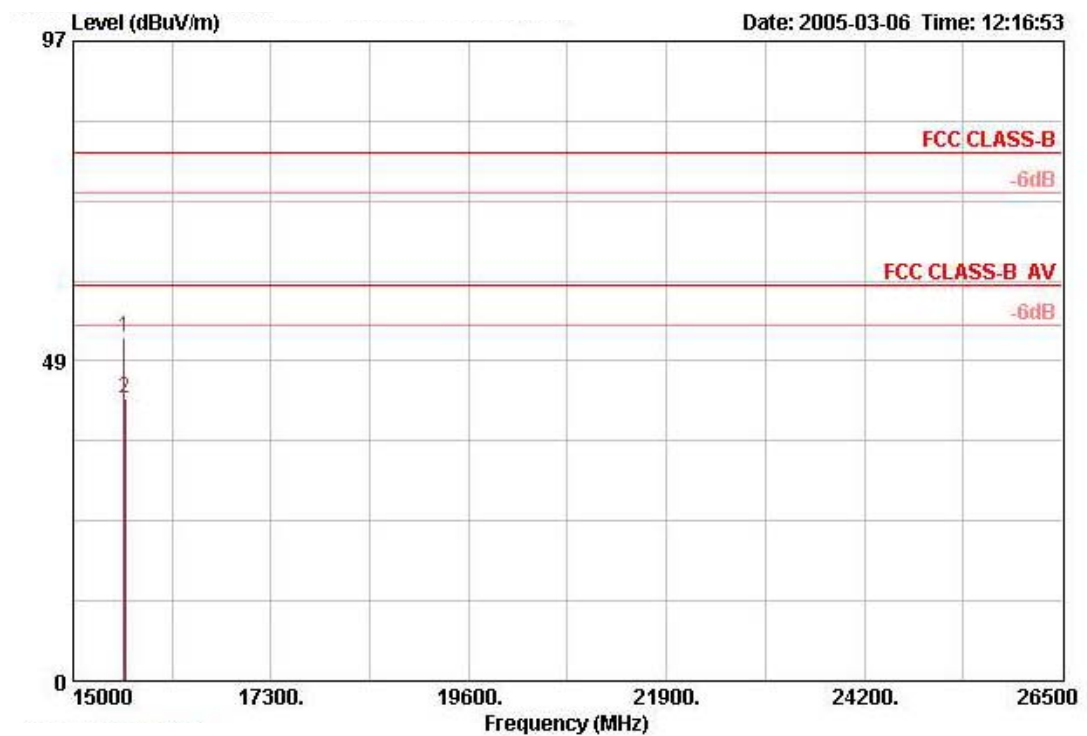
- Temperature: 15°C
- Relative Humidity: 62%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Mode 1

(A) Polarization: Horizontal

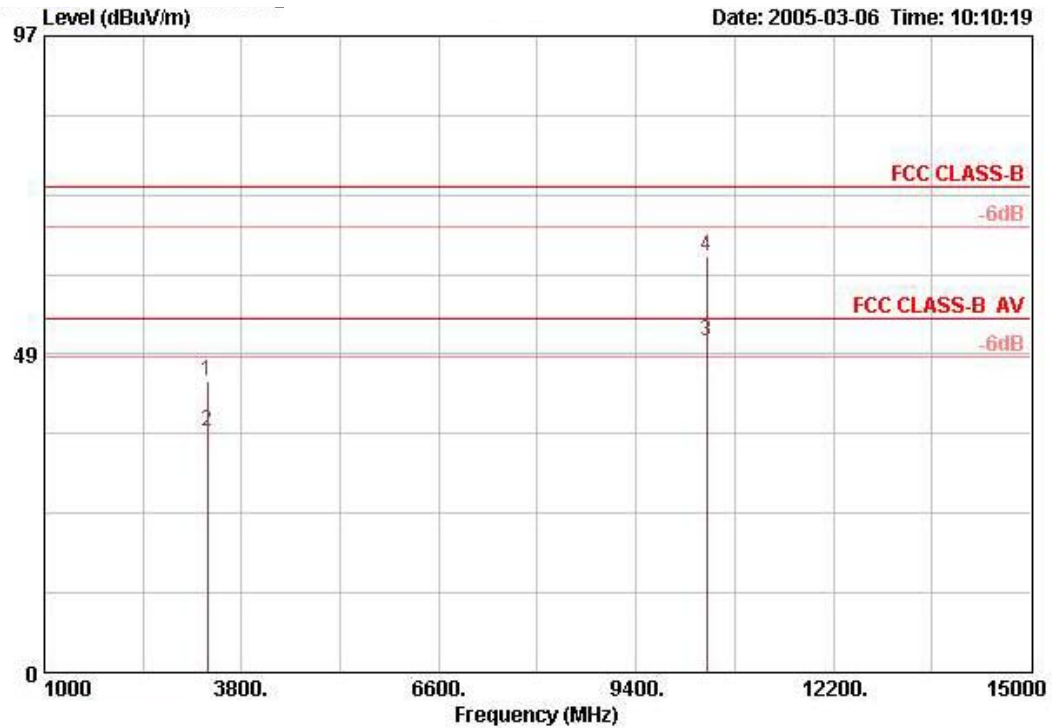


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
			dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3313.000	47.24	-26.76	74.00	30.88	2.10	36.60	50.86	HORIZONTAL	Peak
2	3313.000	39.66	-14.34	54.00	30.88	2.10	36.60	43.28	HORIZONTAL	Average
3	10400.000	47.61	-6.39	54.00	39.38	5.23	36.13	39.13	HORIZONTAL	Average
4	10400.000	61.57	-12.43	74.00	39.38	5.23	36.13	53.09	HORIZONTAL	Peak

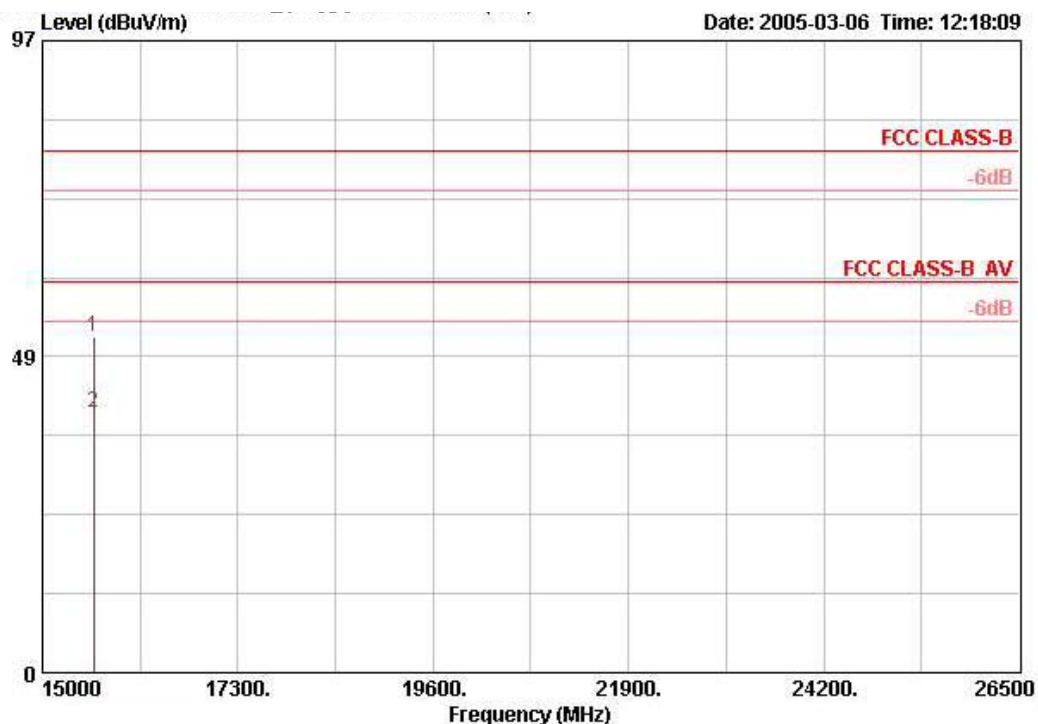


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15597.940	51.94	-28.06	80.00	37.15	6.75	36.48	44.52	HORIZONTAL	PEAK
2	15598.540	42.73	-17.27	60.00	37.15	6.75	36.48	35.31	HORIZONTAL	AVERAGE

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3313.000	44.32	-29.68	74.00	30.88	2.10	36.60	47.94	VERTICAL	Peak
2	3313.000	36.87	-17.13	54.00	30.88	2.10	36.60	40.49	VERTICAL	Average
3	10400.000	50.51	-3.49	54.00	39.38	5.23	36.13	42.03	VERTICAL	Average
4	10400.000	63.35	-10.65	74.00	39.38	5.23	36.13	54.87	VERTICAL	Peak



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15600.000	51.50	-28.50	80.00	37.13	6.75	36.53	44.15	VERTICAL	Peak
2	15600.000	39.99	-20.01	60.00	37.13	6.75	36.53	32.64	VERTICAL	Average

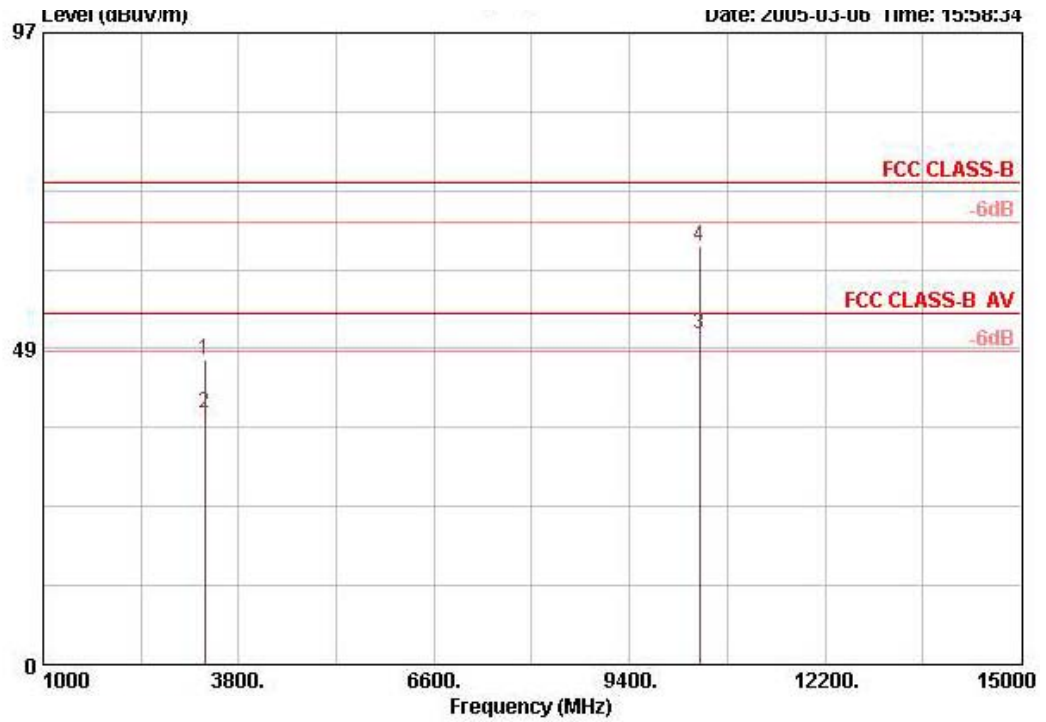
Note:

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

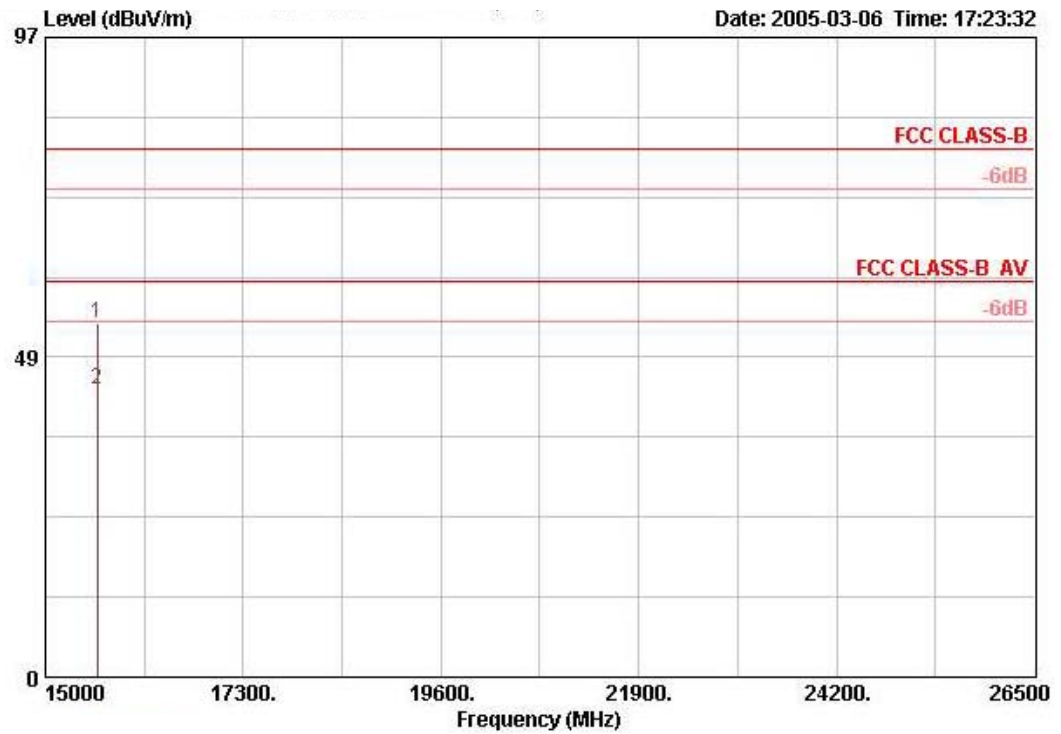
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

Mode 2

(A) Polarization: Horizontal

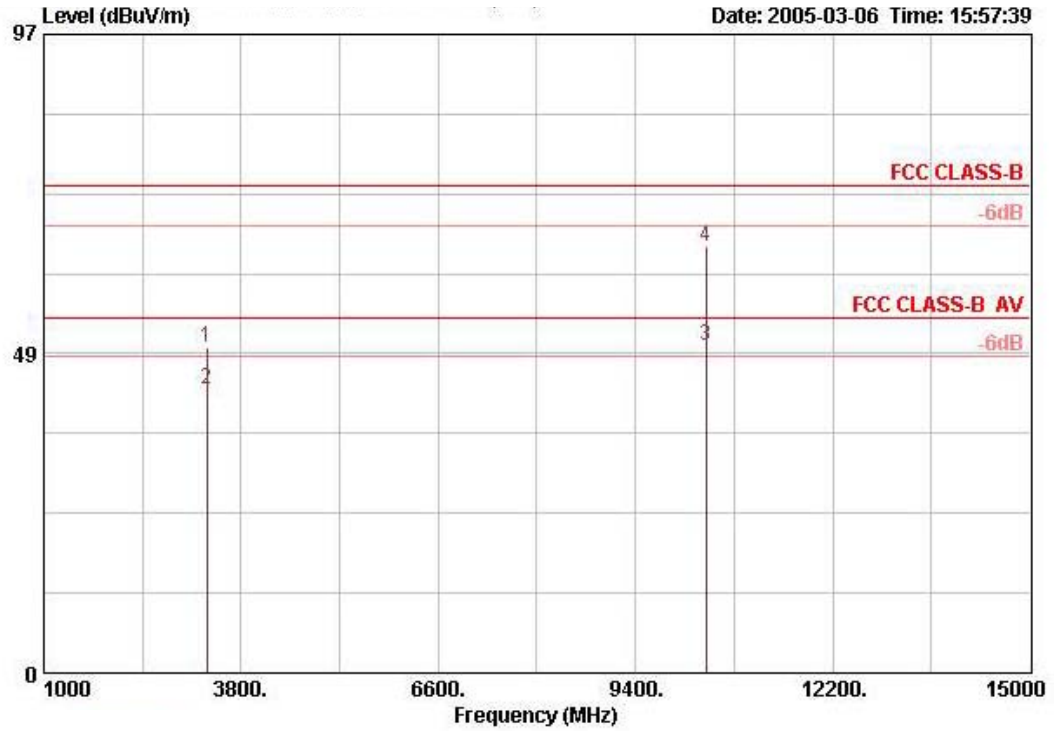


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3313.000	46.88	-27.12	74.00	30.88	2.10	36.60	50.50	HORIZONTAL	Peak
2	3313.000	38.54	-15.46	54.00	30.88	2.10	36.60	42.16	HORIZONTAL	Average
3	10400.000	50.87	-3.13	54.00	39.38	5.23	36.13	42.39	HORIZONTAL	Average
4	10400.000	64.21	-9.79	74.00	39.38	5.23	36.13	55.73	HORIZONTAL	Peak

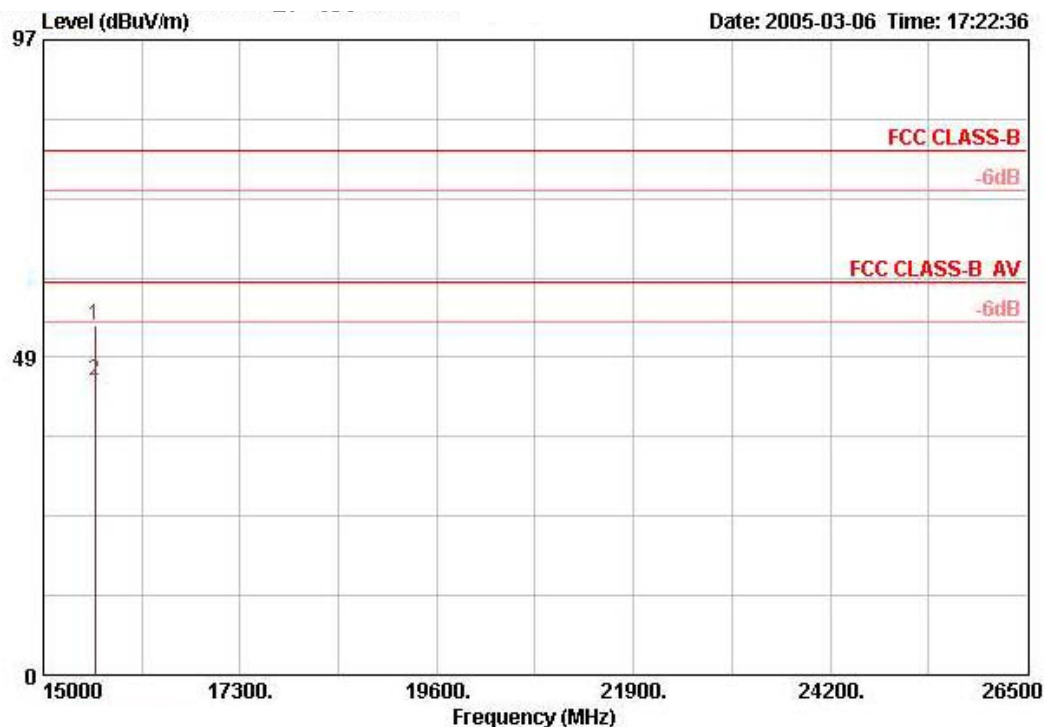


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15600.000	53.69	-26.31	80.00	37.13	6.75	36.53	46.34	HORIZONTAL	Peak
2	15600.000	43.60	-16.40	60.00	37.13	6.75	36.53	36.25	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3313.000	49.55	-24.45	74.00	30.88	2.10	36.60	53.17	VERTICAL	Peak
2	3313.000	42.95	-11.05	54.00	30.88	2.10	36.60	46.57	VERTICAL	Average
3	10400.000	49.66	-4.34	54.00	39.38	5.23	36.13	41.18	VERTICAL	Average
4	10400.000	64.88	-9.12	74.00	39.38	5.23	36.13	56.40	VERTICAL	Peak



	Freq	Level	Over Limit	Antenna Line	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	
1	15600.000	53.52	-26.48	80.00	37.13	6.75	36.53	46.17	VERTICAL Peak
2	15600.000	44.95	-15.05	60.00	37.13	6.75	36.53	37.60	VERTICAL Average

Note:

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

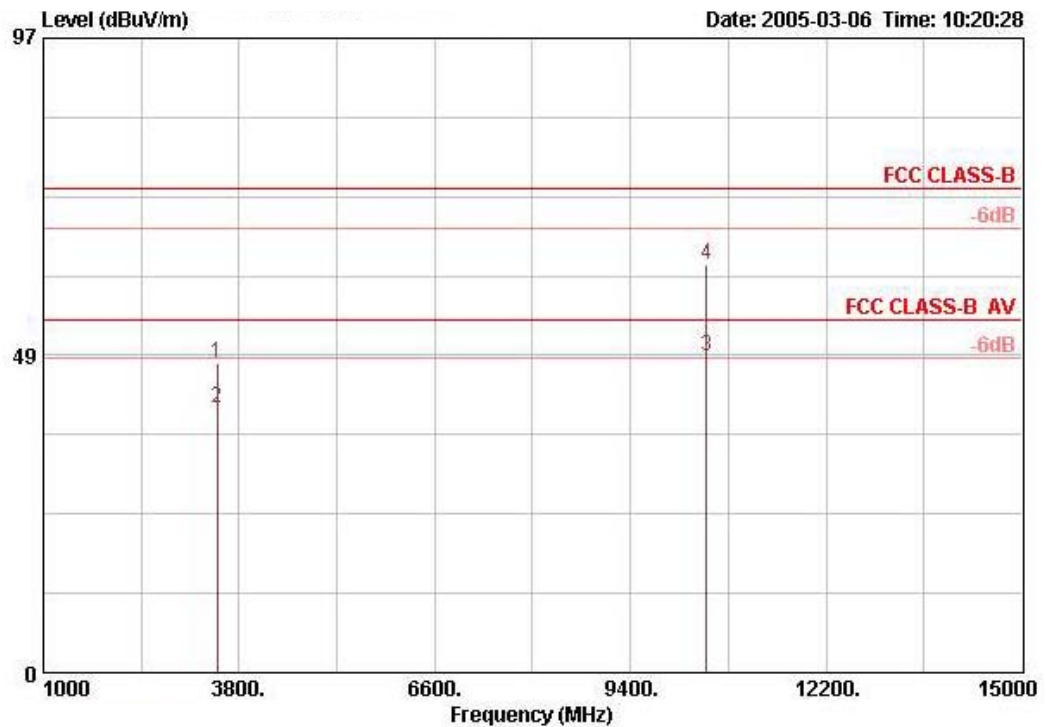
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

5.8.7. Test Results for CH 48 / 5240 MHz (for emission above 1GHz)

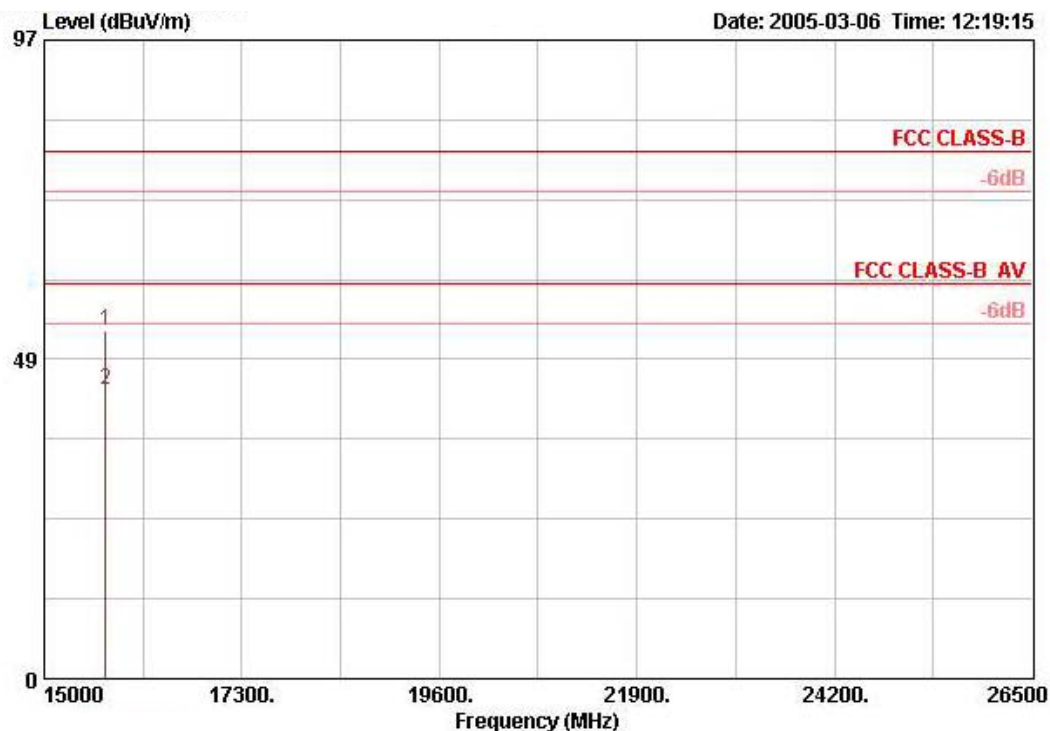
- Temperature: 15°C
- Relative Humidity: 62%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Mode 1

(A) Polarization: Horizontal

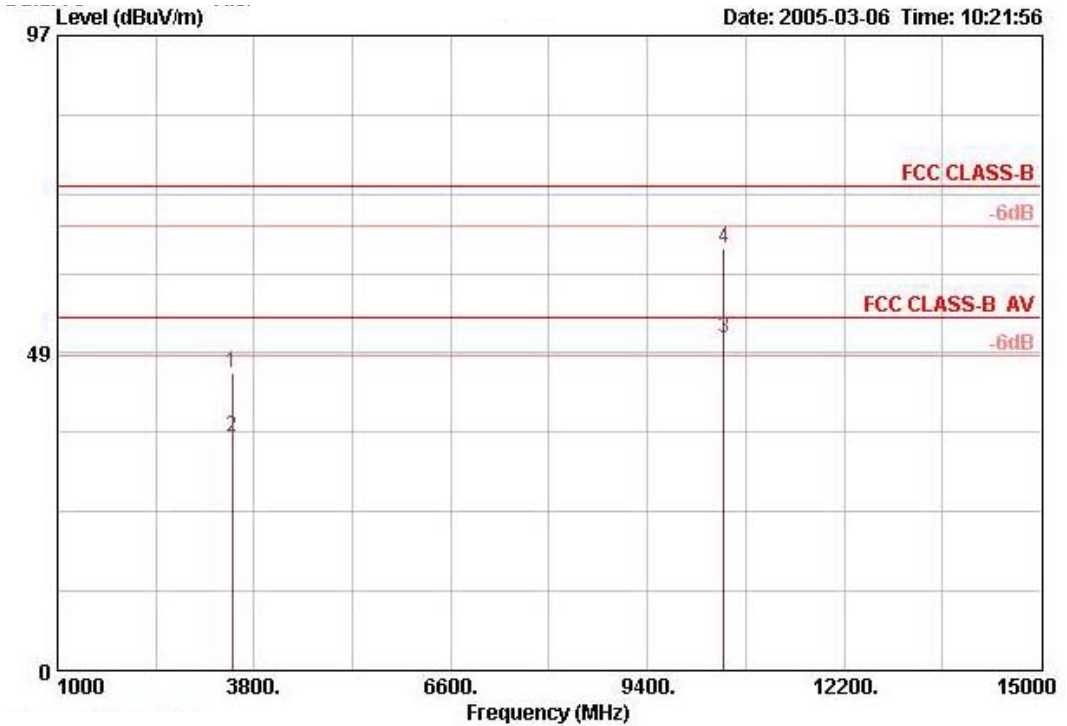


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss Factor	Preamplifier Gain Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3493.000	47.36	-26.64	74.00	31.30	2.44	36.60	50.22	HORIZONTAL	Peak
2	3493.000	40.36	-13.64	54.00	31.30	2.44	36.60	43.22	HORIZONTAL	Average
3	10490.000	48.33	-5.67	54.00	39.48	5.33	36.07	39.59	HORIZONTAL	Average
4	10490.000	62.36	-11.64	74.00	39.48	5.33	36.07	53.62	HORIZONTAL	Peak

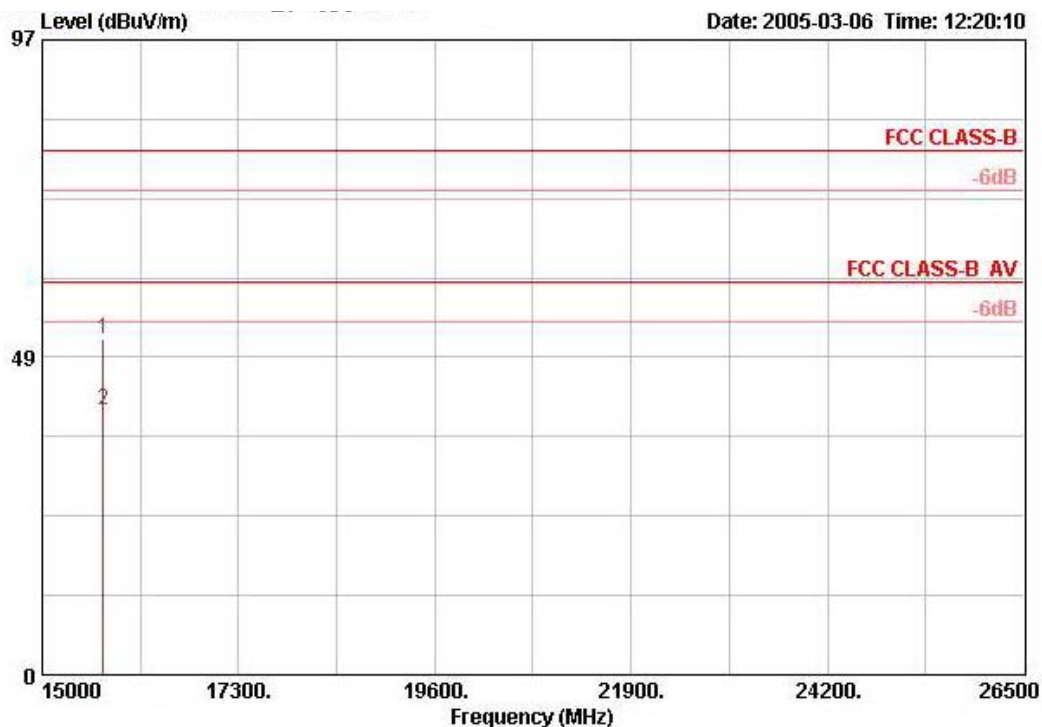


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15720.000	52.96	-27.04	80.00	37.16	6.71	36.73	45.82	HORIZONTAL	Peak
2	15720.000	43.85	-16.15	60.00	37.16	6.71	36.73	36.71	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3493.000	45.36	-28.64	74.00	31.30	2.44	36.60	48.22	VERTICAL	Peak
2	3493.000	35.63	-18.37	54.00	31.30	2.44	36.60	38.49	VERTICAL	Average
3	10490.000	50.85	-3.15	54.00	39.48	5.33	36.07	42.11	VERTICAL	Average
4	10490.000	64.37	-9.63	74.00	39.48	5.33	36.07	55.63	VERTICAL	Peak



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15720.000	51.33	-28.67	80.00	37.16	6.71	36.73	44.19	VERTICAL	Peak
2	15720.000	40.52	-19.48	60.00	37.16	6.71	36.73	33.38	VERTICAL	Average

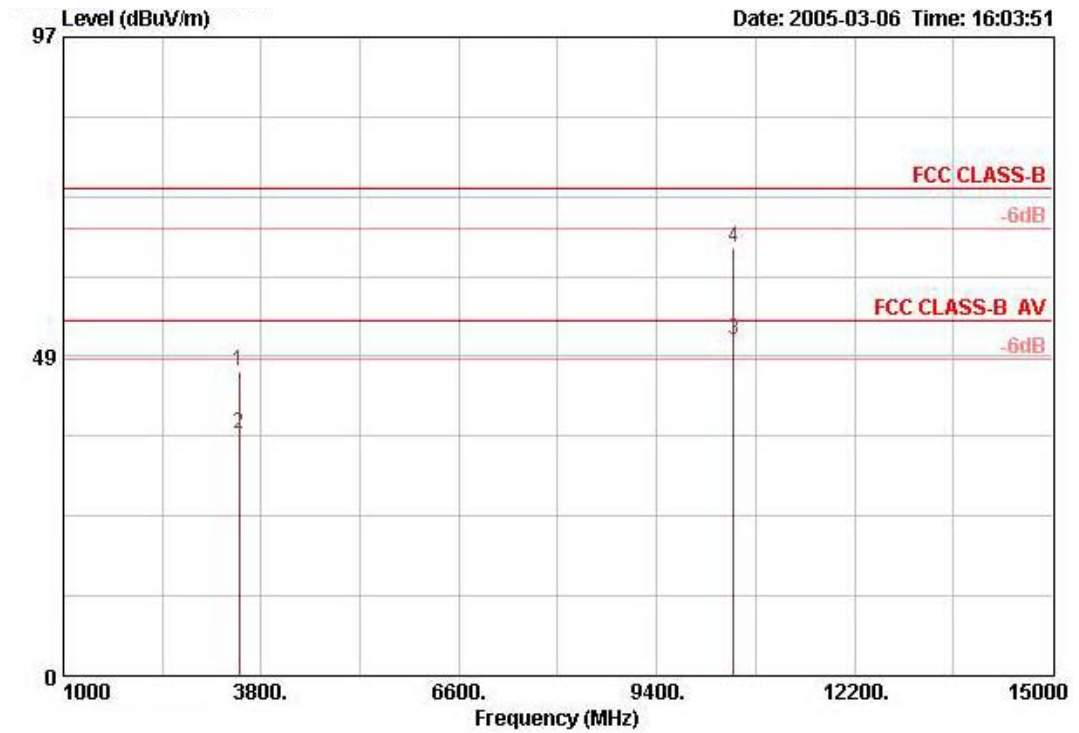
Note:

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

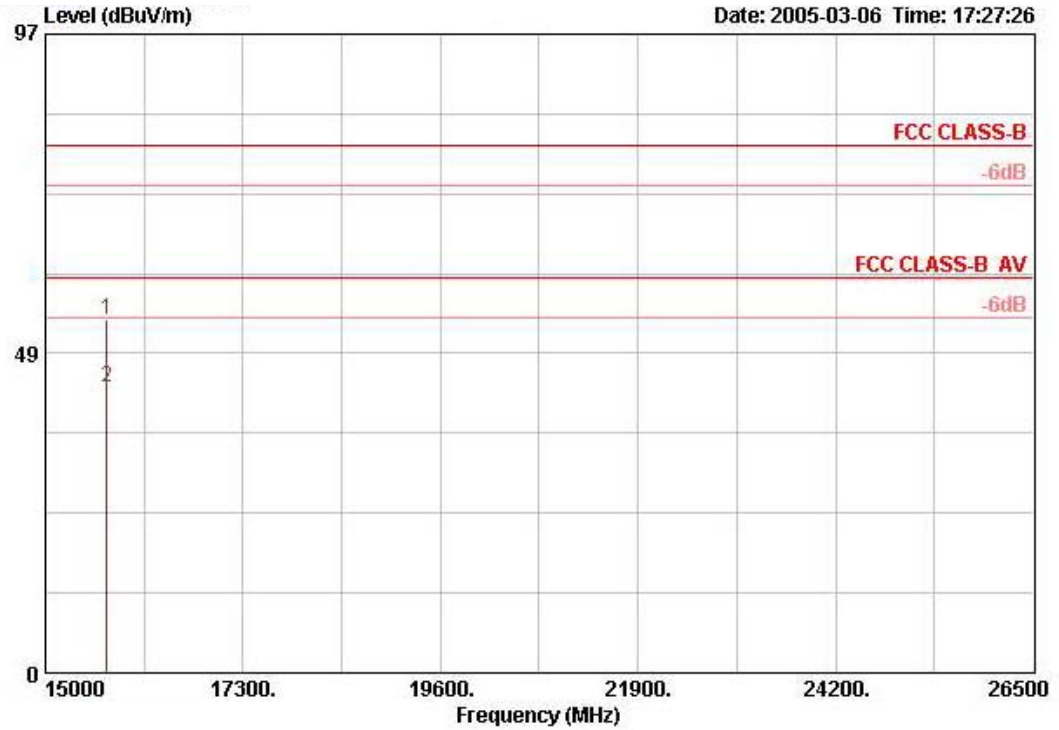
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

Mode 2

(A) Polarization: Horizontal

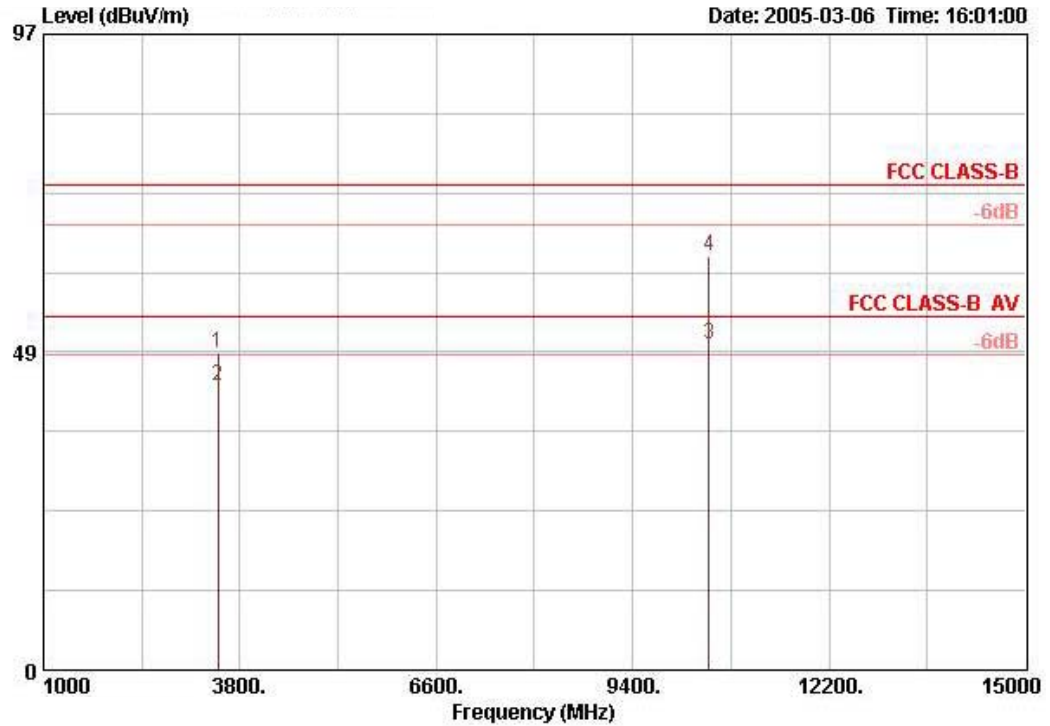


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Pol/Phase	Remark
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level		
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3493.000	46.23	-27.77	74.00	31.30	2.44	36.60	49.09	HORIZONTAL	Peak
2	3493.000	36.66	-17.34	54.00	31.30	2.44	36.60	39.52	HORIZONTAL	Average
3	10490.000	50.88	-3.12	54.00	39.48	5.33	36.07	42.14	HORIZONTAL	Average
4	10490.000	64.98	-9.02	74.00	39.48	5.33	36.07	56.24	HORIZONTAL	Peak

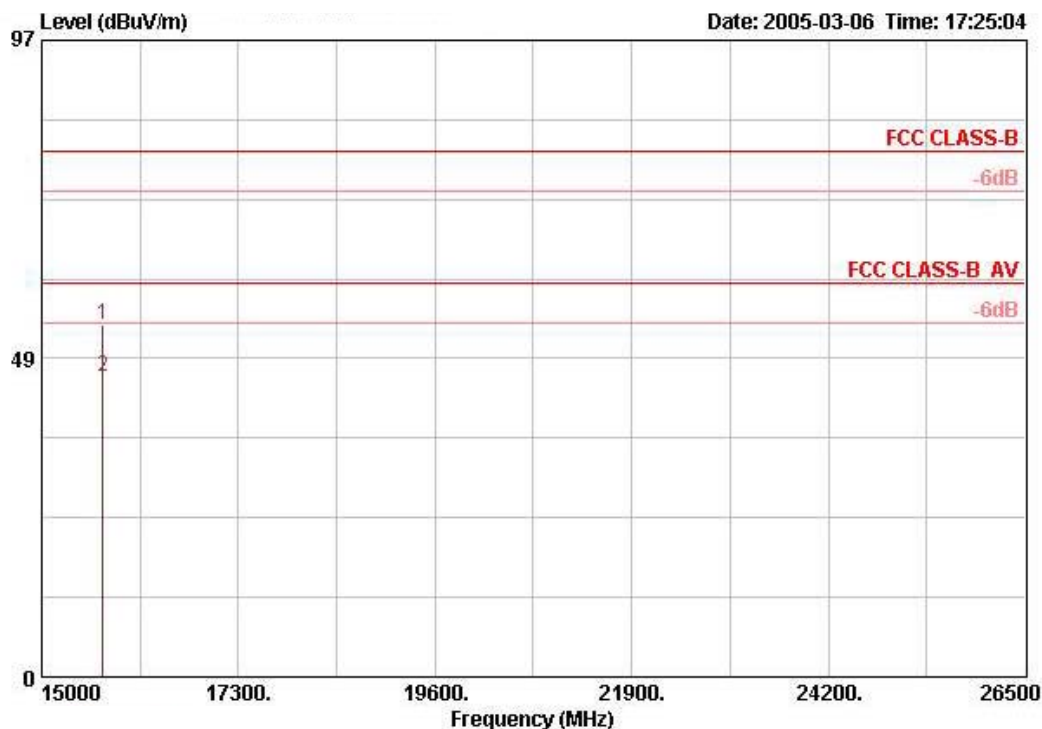


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15720.000	53.67	-26.33	80.00	37.16	6.71	36.73	46.53	HORIZONTAL	Peak
2	15720.000	43.25	-16.75	60.00	37.16	6.71	36.73	36.11	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit		Line	Loss	Factor	Level	Pol/Phase	Remark
			dB		Factor			dBuV		
1	3493.000	48.25	-25.75	74.00	31.30	2.44	36.60	51.11	VERTICAL	Peak
2	3493.000	43.33	-10.67	54.00	31.30	2.44	36.60	46.19	VERTICAL	Average
3 !	10490.000	49.62	-4.38	54.00	39.48	5.33	36.07	40.88	VERTICAL	Average
4	10490.000	63.23	-10.77	74.00	39.48	5.33	36.07	54.49	VERTICAL	Peak



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV	Pol/Phase	Remark
1	15720.000	53.69	-26.31	80.00	37.16	6.71	36.73	46.55	VERTICAL	Peak
2	15720.000	45.69	-14.31	60.00	37.16	6.71	36.73	38.55	VERTICAL	Average

Note:

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

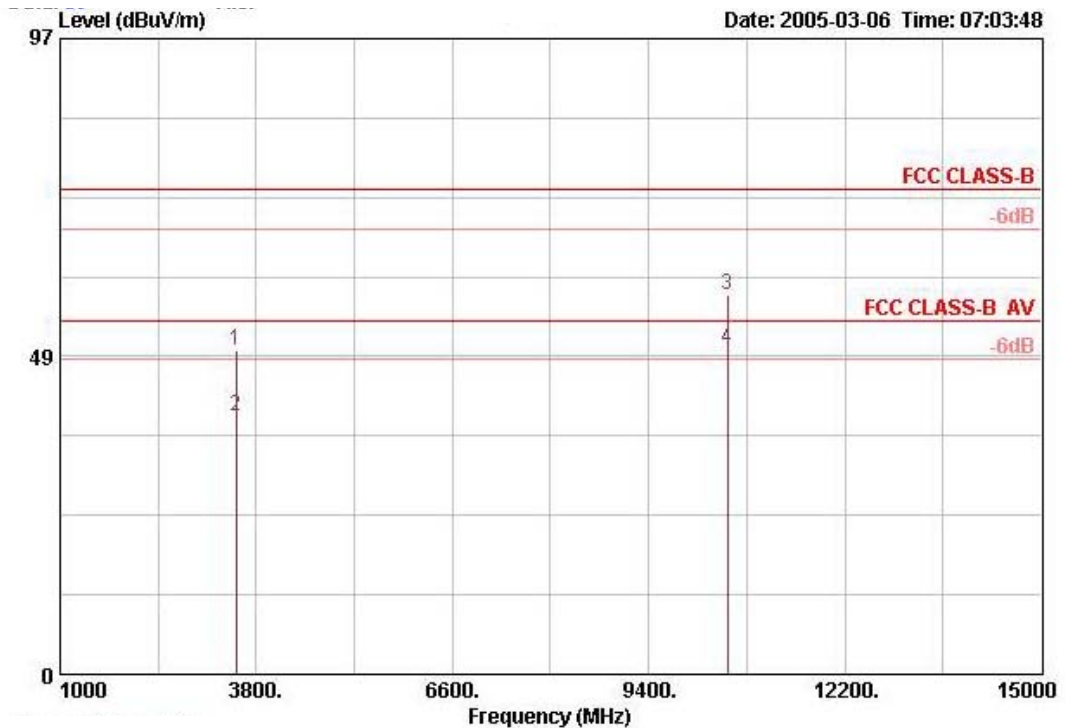
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

5.8.8. Test Results for CH 52 / 5260 MHz (for emission above 1GHz)

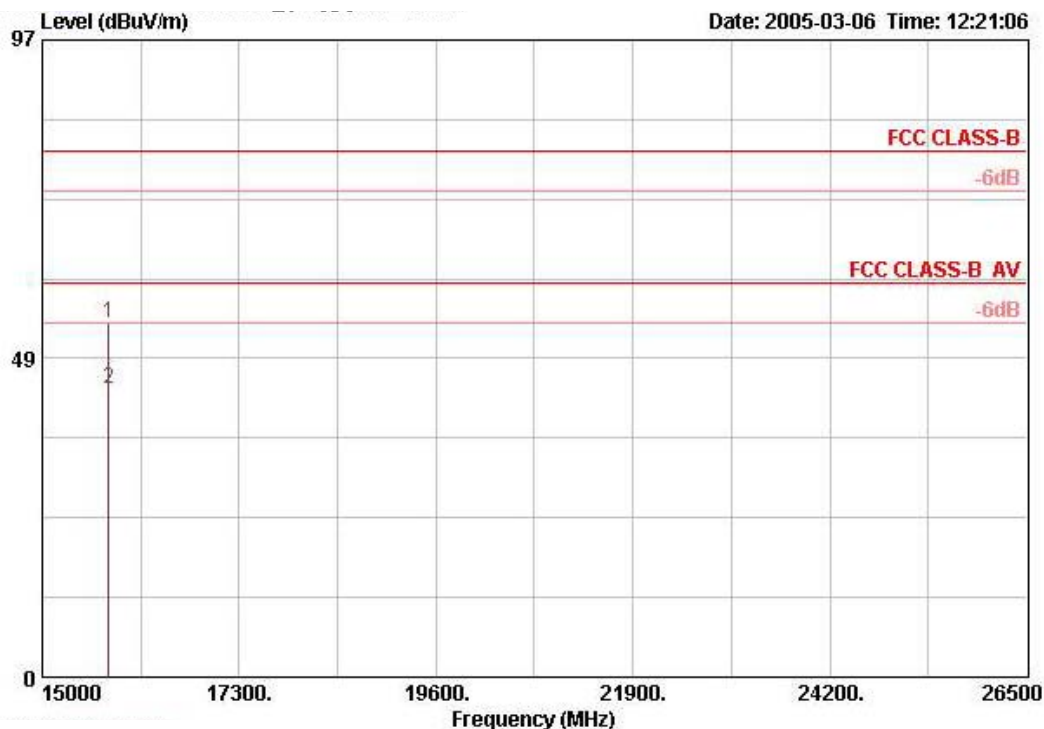
- Temperature: 15°C
- Relative Humidity: 62%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Mode 1

(A) Polarization: Horizontal

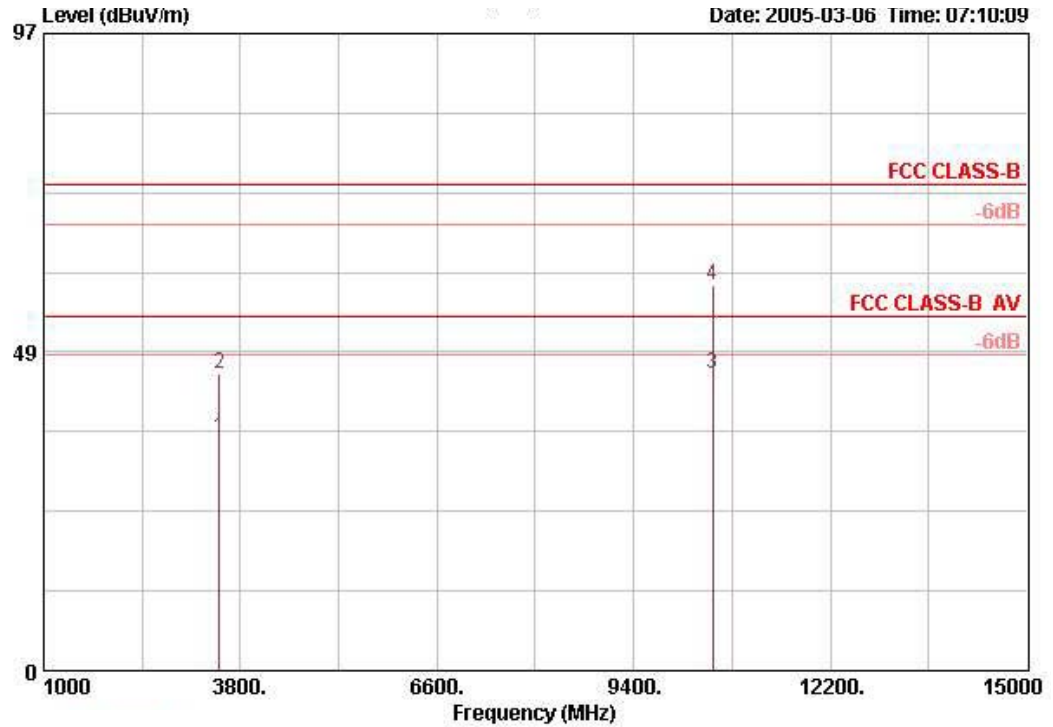


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3506.600	49.31	-24.69	74.00	31.30	2.44	36.60	52.17	HORIZONTAL	PEAK
2	3506.600	39.48	-14.52	54.00	31.30	2.44	36.60	42.34	HORIZONTAL	AVERAGE
3	10519.800	57.90	-16.10	74.00	39.49	5.38	36.05	49.08	HORIZONTAL	PEAK
4 !	10520.720	49.62	-4.38	54.00	39.49	5.38	36.05	40.80	HORIZONTAL	AVERAGE

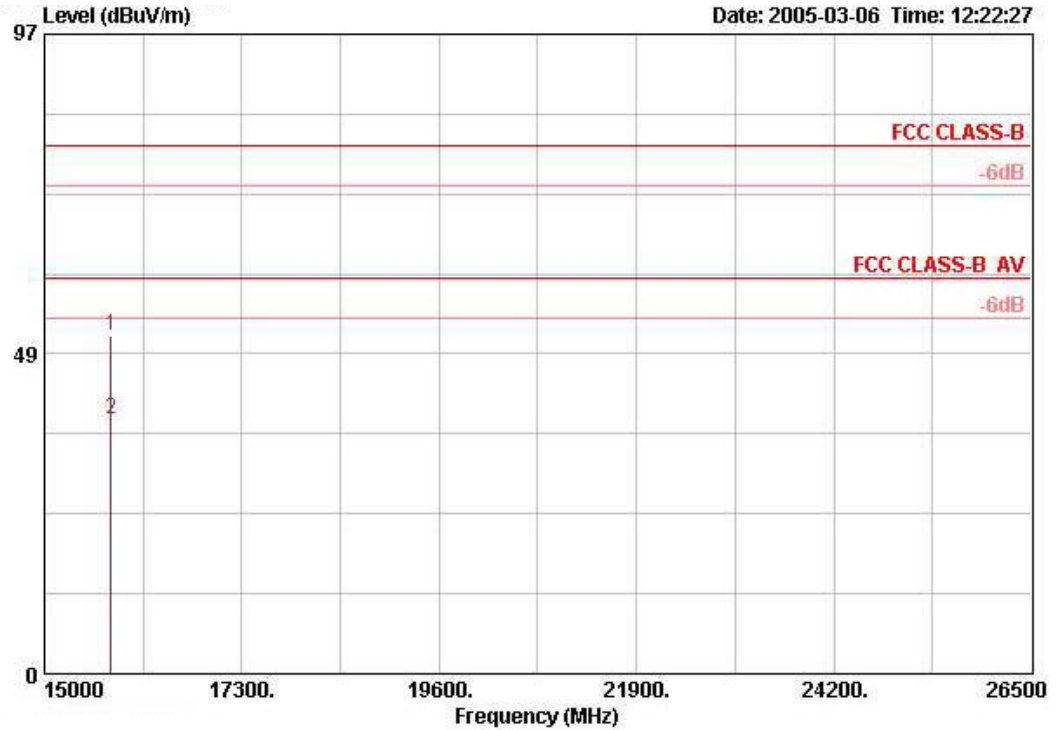


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15780.000	53.87	-26.13	80.00	37.18	6.68	36.89	46.90	HORIZONTAL	Peak
2	15780.000	43.80	-16.20	60.00	37.18	6.68	36.89	36.83	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
			dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3505.340	35.33	-18.67	54.00	31.30	2.44	36.60	38.19	VERTICAL	AVERAGE
2	3505.340	45.14	-28.86	74.00	31.30	2.44	36.60	48.00	VERTICAL	PEAK
3	10519.880	45.27	-8.73	54.00	39.49	5.38	36.05	36.45	VERTICAL	AVERAGE
4	10522.480	58.64	-15.36	74.00	39.49	5.38	36.05	49.82	VERTICAL	PEAK



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
			dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15780.000	51.22	-28.78	80.00	37.18	6.68	36.89	44.25	VERTICAL	Peak
2	15780.000	38.66	-21.34	60.00	37.18	6.68	36.89	31.69	VERTICAL	Average

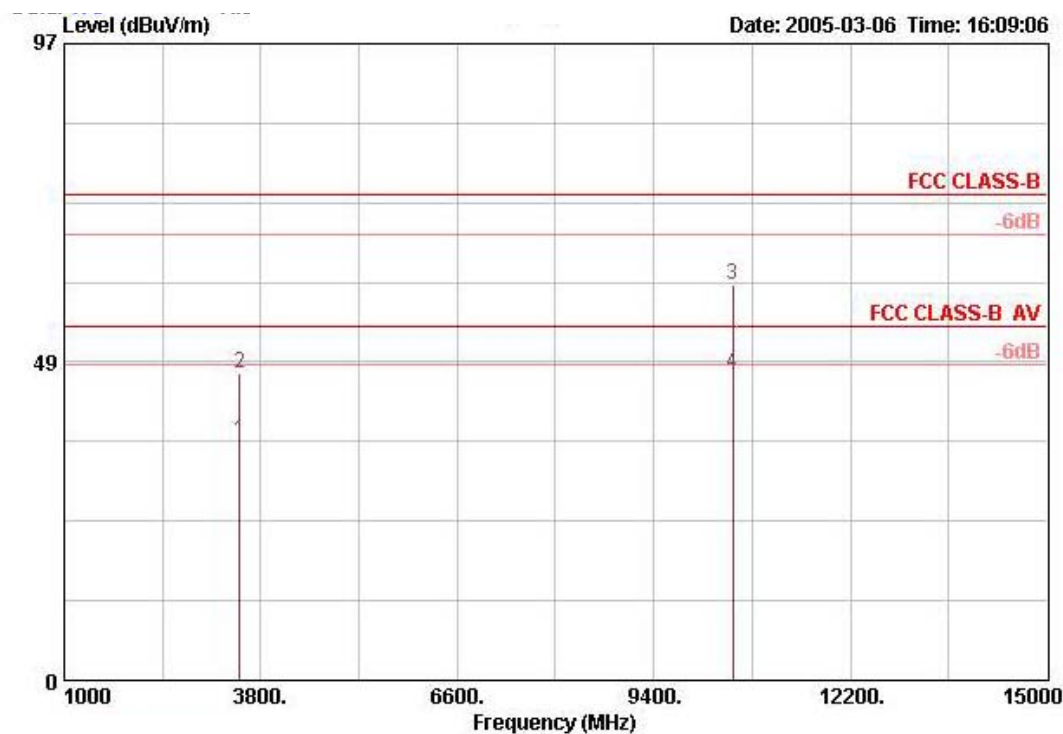
Note:

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

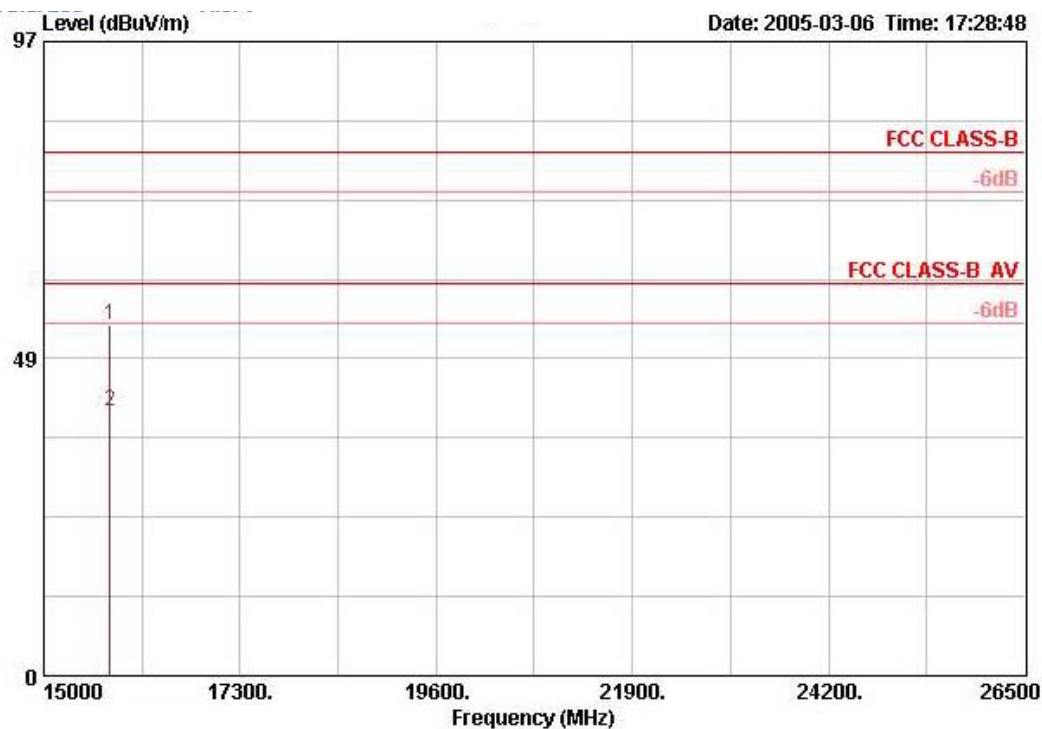
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

Mode 2

(A) Polarization: Horizontal

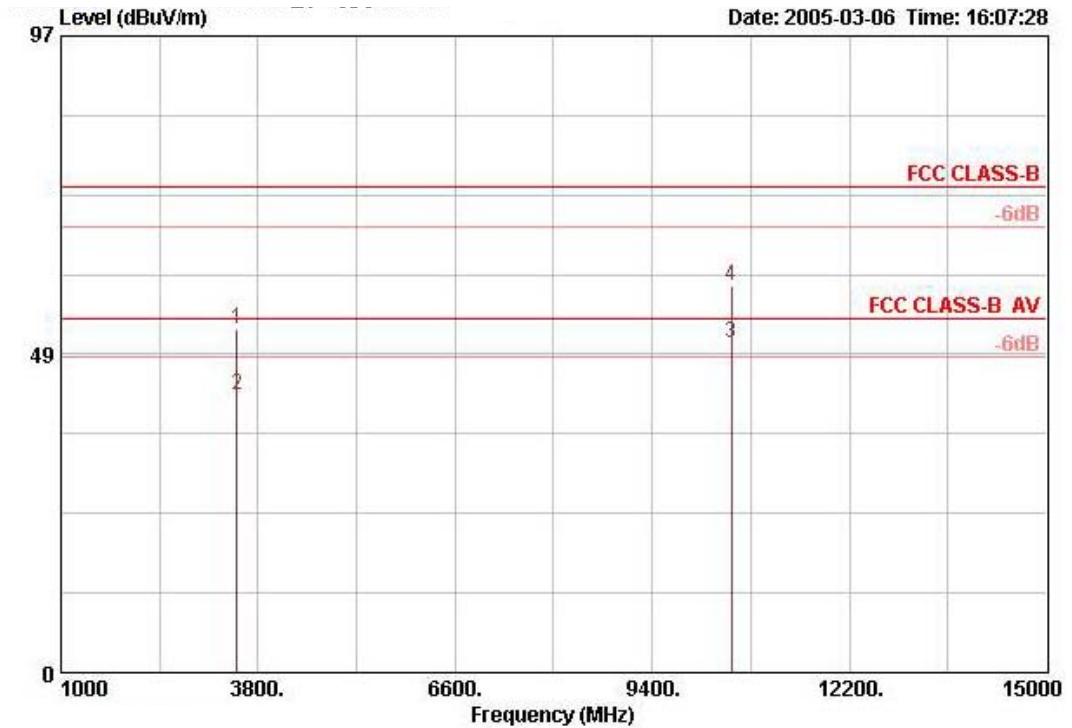


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamplifier	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3505.000	36.45	-17.55	54.00	31.30	2.44	36.60	39.31	HORIZONTAL	Average
2	3505.000	46.84	-27.16	74.00	31.30	2.44	36.60	49.70	HORIZONTAL	Peak
3	10520.000	60.36	-13.64	74.00	39.49	5.38	36.05	51.54	HORIZONTAL	Peak
4	10520.000	46.68	-7.32	54.00	39.49	5.38	36.05	37.86	HORIZONTAL	Average

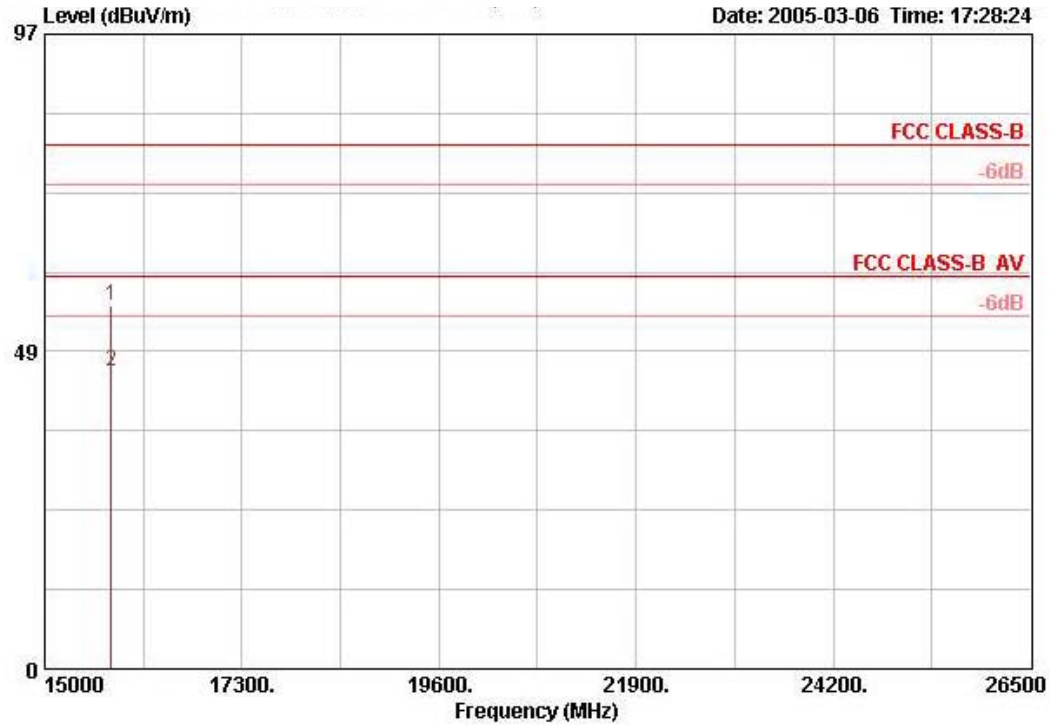


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15780.000	53.61	-26.39	80.00	37.18	6.68	36.89	46.64	HORIZONTAL	Peak
2	15780.000	40.36	-19.64	60.00	37.18	6.68	36.89	33.39	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
			dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3506.000	52.22	-21.78	74.00	31.30	2.44	36.60	55.08	VERTICAL	Peak
2	3506.000	42.33	-11.67	54.00	31.30	2.44	36.60	45.19	VERTICAL	Average
3	10520.000	50.33	-3.67	54.00	39.49	5.38	36.05	41.51	VERTICAL	Average
4	10520.000	58.87	-15.13	74.00	39.49	5.38	36.05	50.05	VERTICAL	Peak



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15780.000	55.62	-24.38	80.00	37.18	6.68	36.89	48.65	HORIZONTAL	Peak
2	15780.000	45.51	-14.49	60.00	37.18	6.68	36.89	38.54	HORIZONTAL	Average

Note:

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

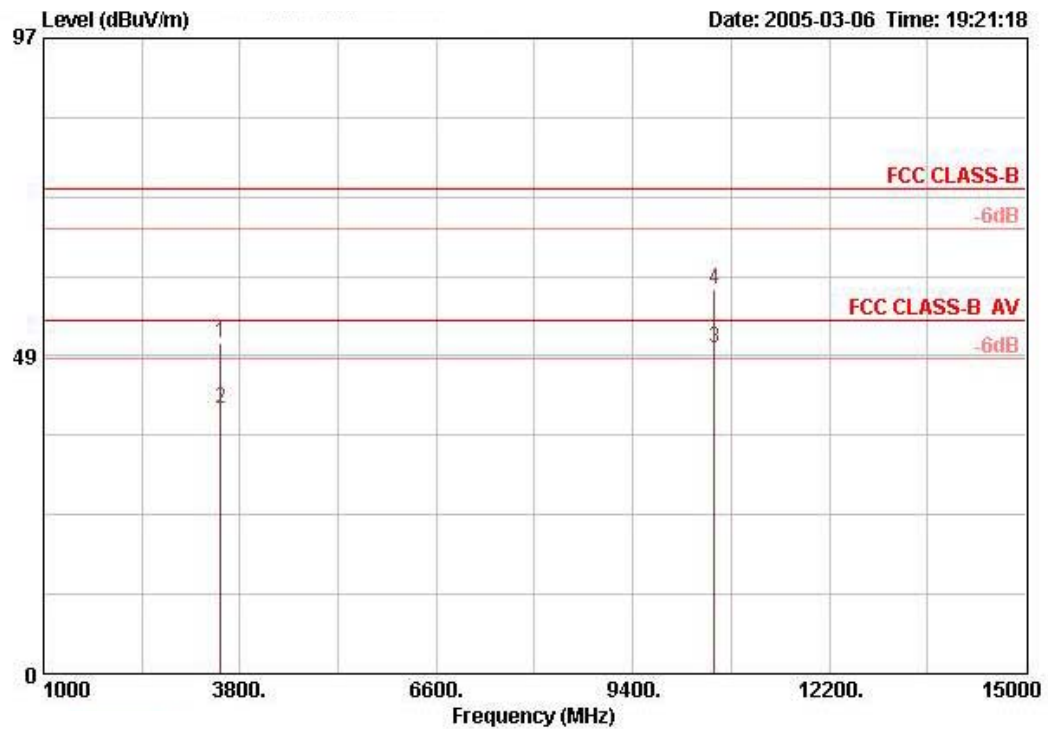
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

5.8.9. Test Results for CH 56 / 5280 MHz (for emission above 1GHz)

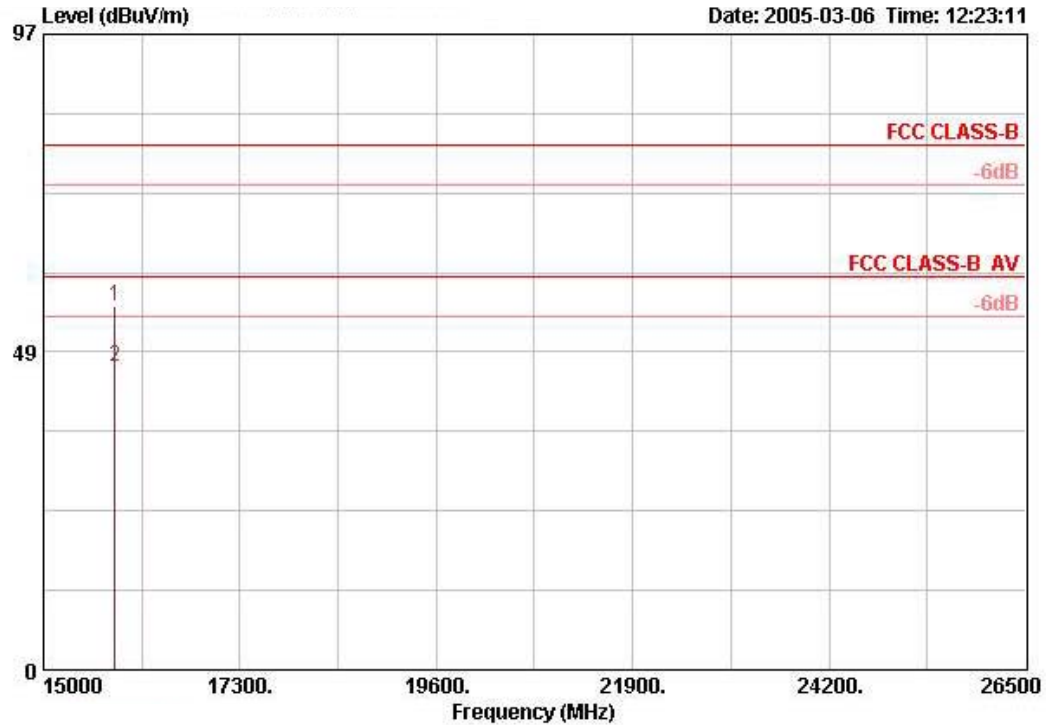
- Temperature: 15°C
- Relative Humidity: 62%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Mode 1

(A) Polarization: Horizontal

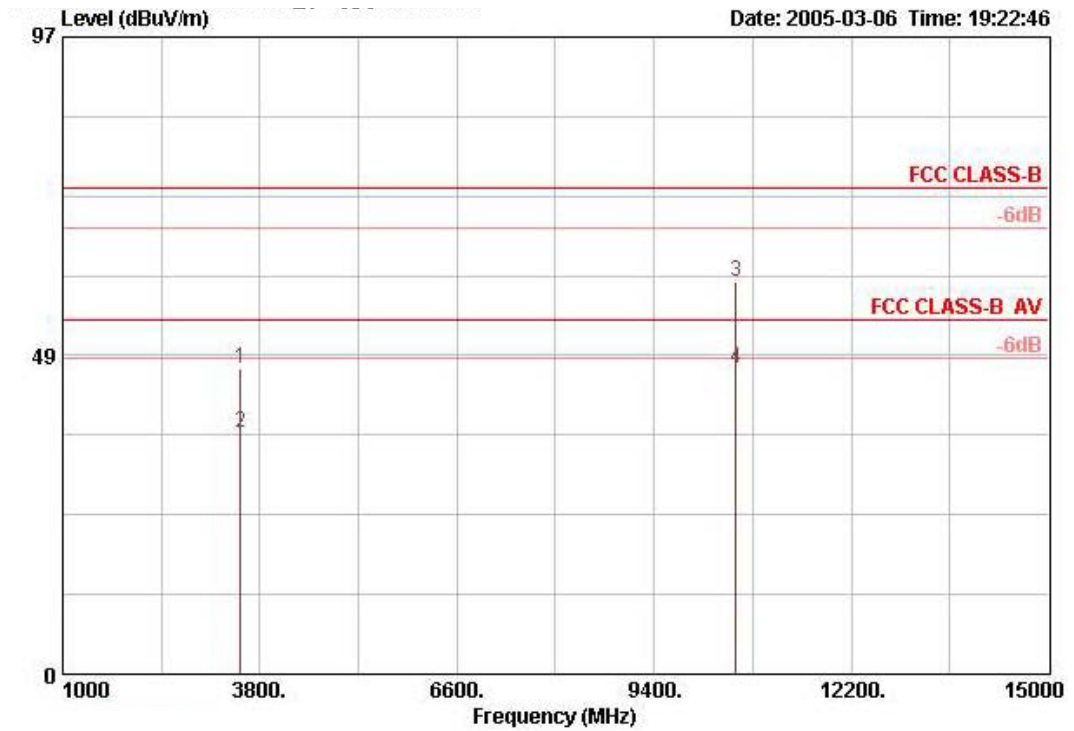


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3525.000	50.55	-23.45	74.00	31.09	2.48	36.61	53.59	HORIZONTAL	Peak
2	3525.000	40.36	-13.64	54.00	31.09	2.48	36.61	43.40	HORIZONTAL	Average
3	10560.000	49.66	-4.34	54.00	39.45	5.39	36.05	40.86	HORIZONTAL	Average
4	10560.000	58.69	-15.31	74.00	39.45	5.39	36.05	49.89	HORIZONTAL	Peak

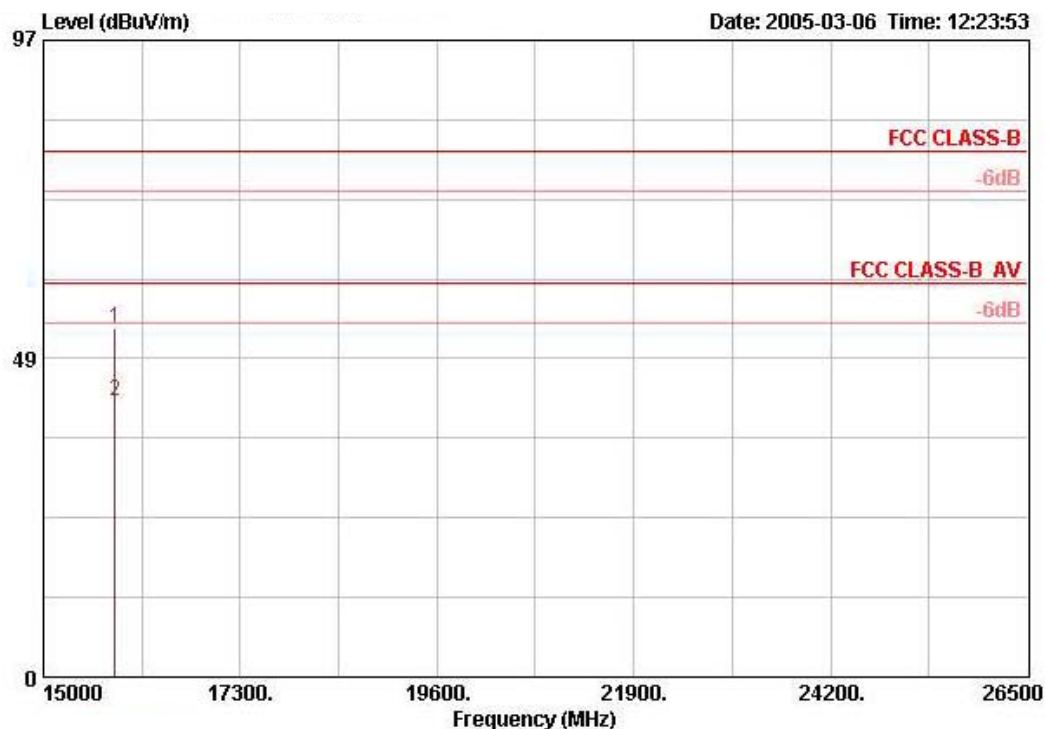


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15840.000	55.63	-24.37	80.00	37.18	6.65	36.99	48.79	HORIZONTAL	Peak
2	15840.000	46.33	-13.67	60.00	37.18	6.65	36.99	39.49	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBUV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBUV/m	dB	dBUV/m	dB/m	dB	dB	dBUV		
1	3525.000	46.55	-27.45	74.00	31.09	2.48	36.61	49.59	VERTICAL	Peak
2	3525.000	36.61	-17.39	54.00	31.09	2.48	36.61	39.65	VERTICAL	Average
3	10560.000	59.64	-14.36	74.00	39.45	5.39	36.05	50.84	VERTICAL	Peak
4	10560.000	46.55	-7.45	54.00	39.45	5.39	36.05	37.75	VERTICAL	Average



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15840.000	53.22	-26.78	80.00	37.18	6.65	36.99	46.38	VERTICAL	Peak
2	15840.000	42.11	-17.89	60.00	37.18	6.65	36.99	35.27	VERTICAL	Average

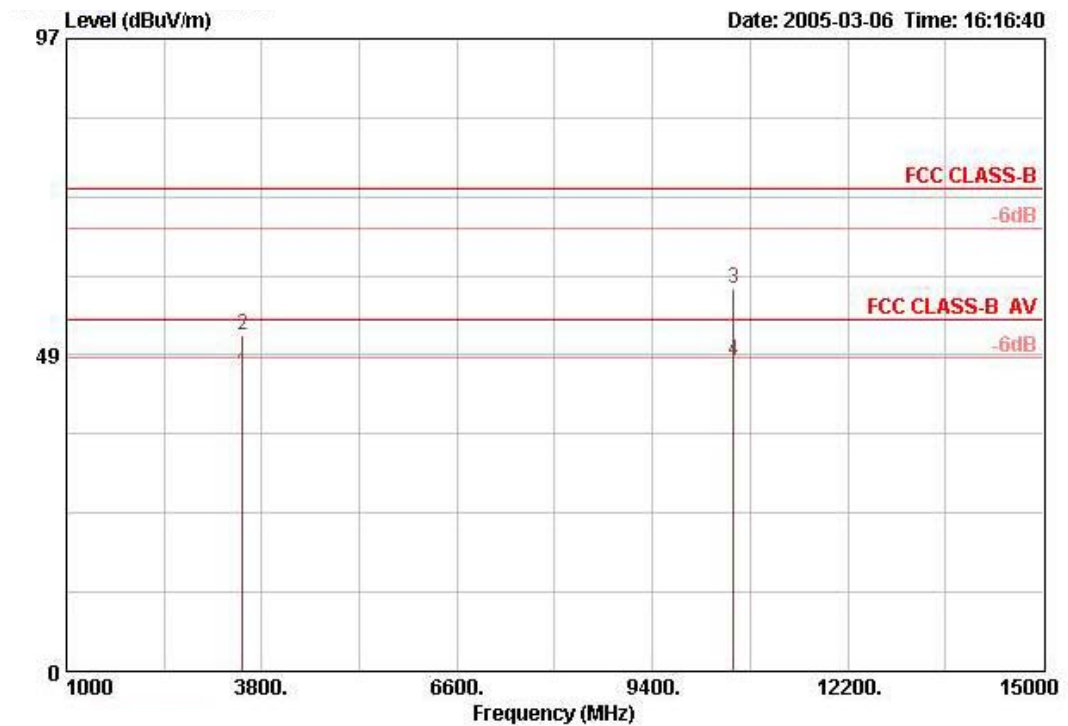
Note:

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

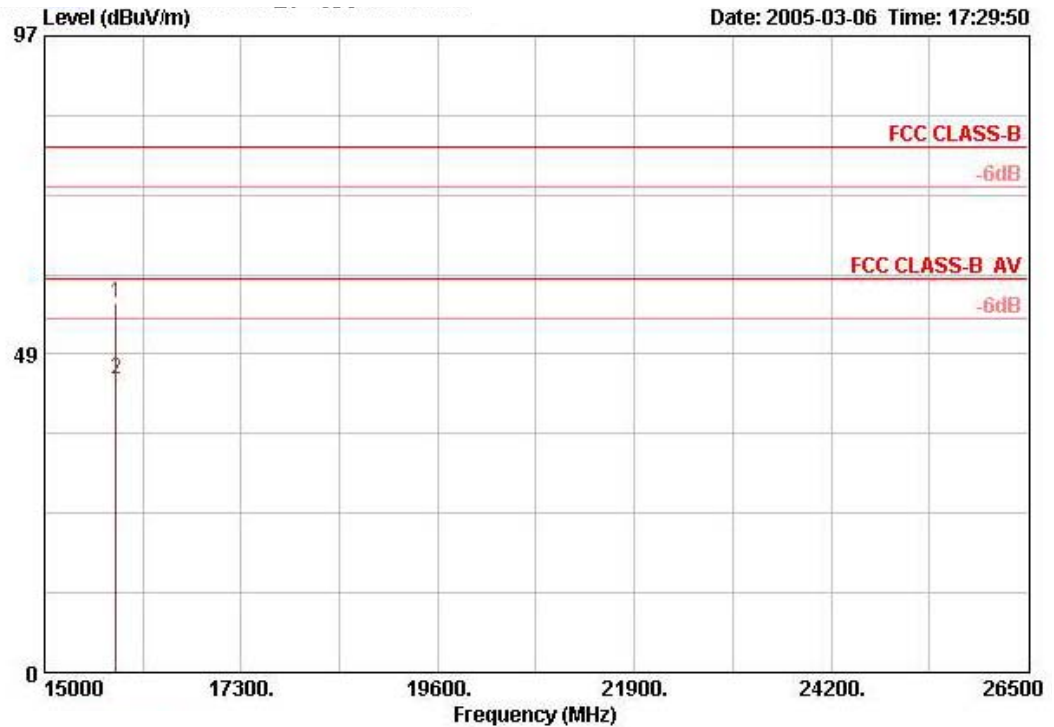
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

Mode 2

(A) Polarization: Horizontal

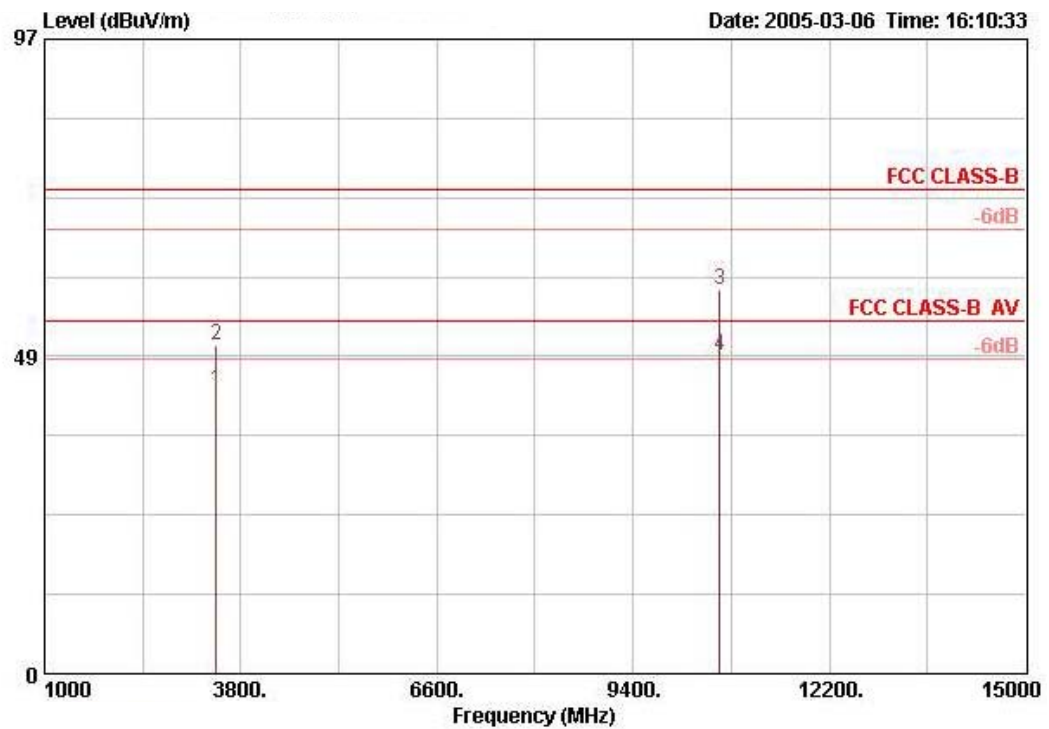


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3520.000	45.68	-8.32	54.00	31.35	2.48	36.61	48.46	VERTICAL	Average
2	3520.000	51.55	-22.45	74.00	31.35	2.48	36.61	54.33	VERTICAL	Peak
3	10560.000	58.74	-15.26	74.00	39.47	5.39	36.05	49.93	VERTICAL	Peak
4	10560.000	47.66	-6.34	54.00	39.47	5.39	36.05	38.85	VERTICAL	Average

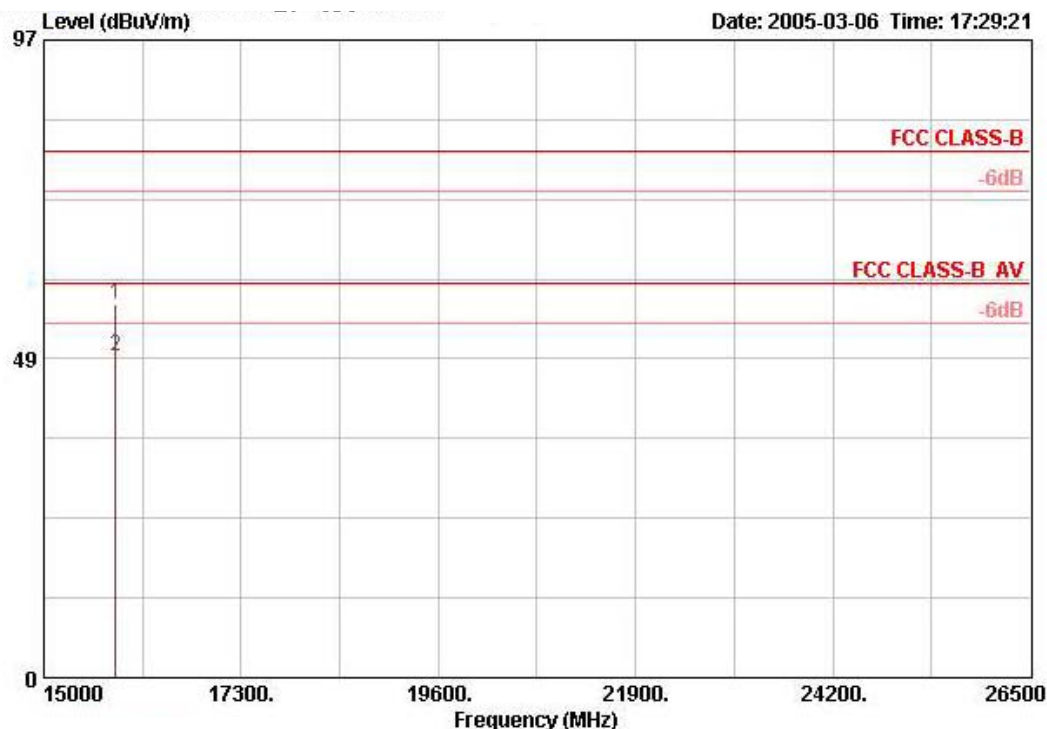


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15840.000	56.35	-23.65	80.00	37.18	6.65	36.99	49.51	HORIZONTAL	Peak
2	15840.000	44.58	-15.42	60.00	37.18	6.65	36.99	37.74	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit		Line Factor	Loss	Factor	Level	Pol/Phase	Remark
			dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3454.000	43.25	-10.75	54.00	31.19	2.37	36.60	46.29	VERTICAL	Average
2	3454.000	50.31	-23.69	74.00	31.19	2.37	36.60	53.35	VERTICAL	Peak
3	10640.000	58.65	-15.35	74.00	39.42	5.42	36.04	49.86	VERTICAL	Peak
4 !	10640.000	48.64	-5.36	54.00	39.42	5.42	36.04	39.85	VERTICAL	Average



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15840.000	56.77	-23.23	80.00	37.18	6.65	36.99	49.93	VERTICAL	Peak
2	15840.000	48.95	-11.05	60.00	37.18	6.65	36.99	42.11	VERTICAL	Average

Note:

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

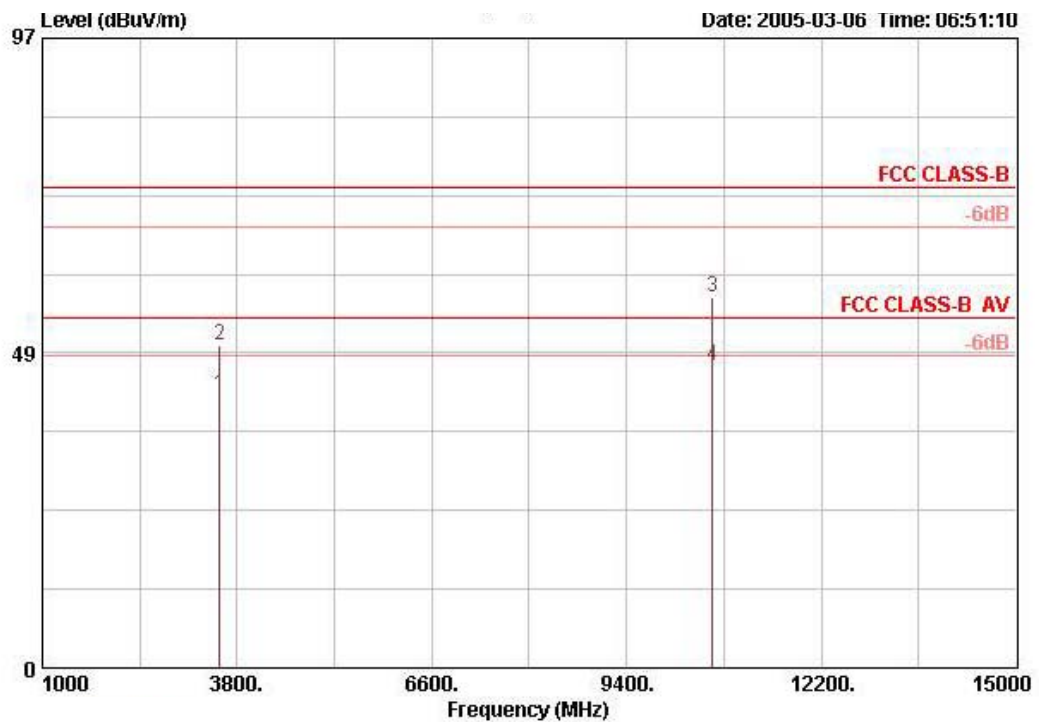
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

5.8.10. Test Results for CH 64 / 5320 MHz (for emission above 1GHz)

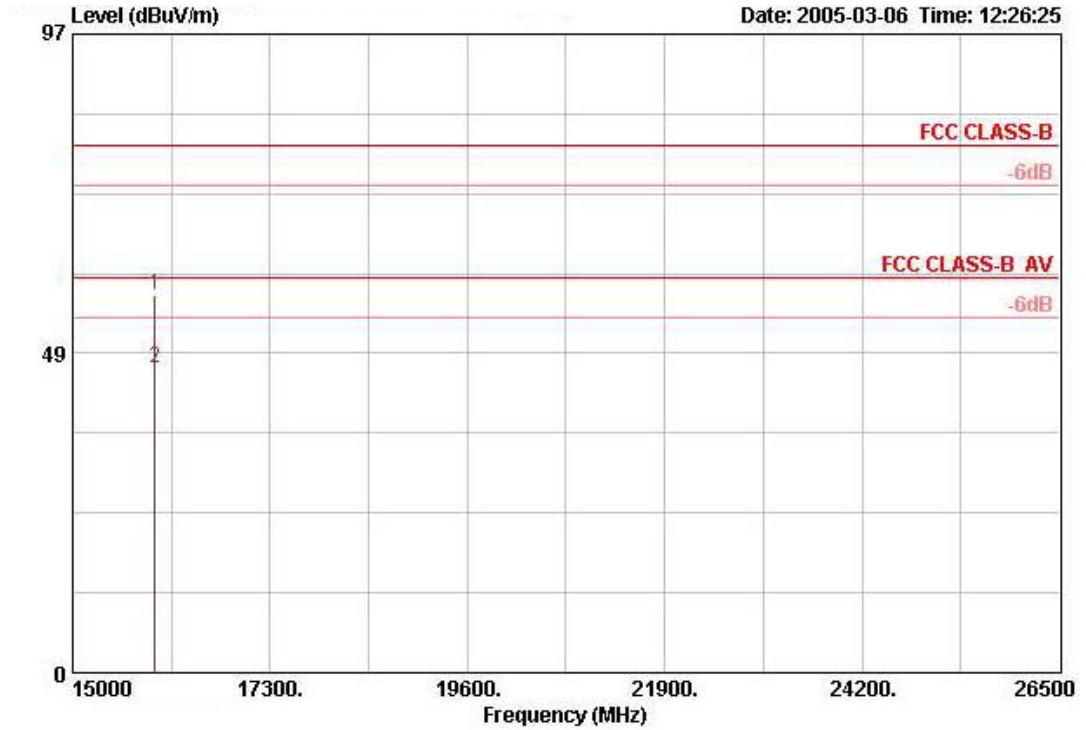
- Temperature: 15°C
- Relative Humidity: 62%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Mode 1

(A) Polarization: Horizontal

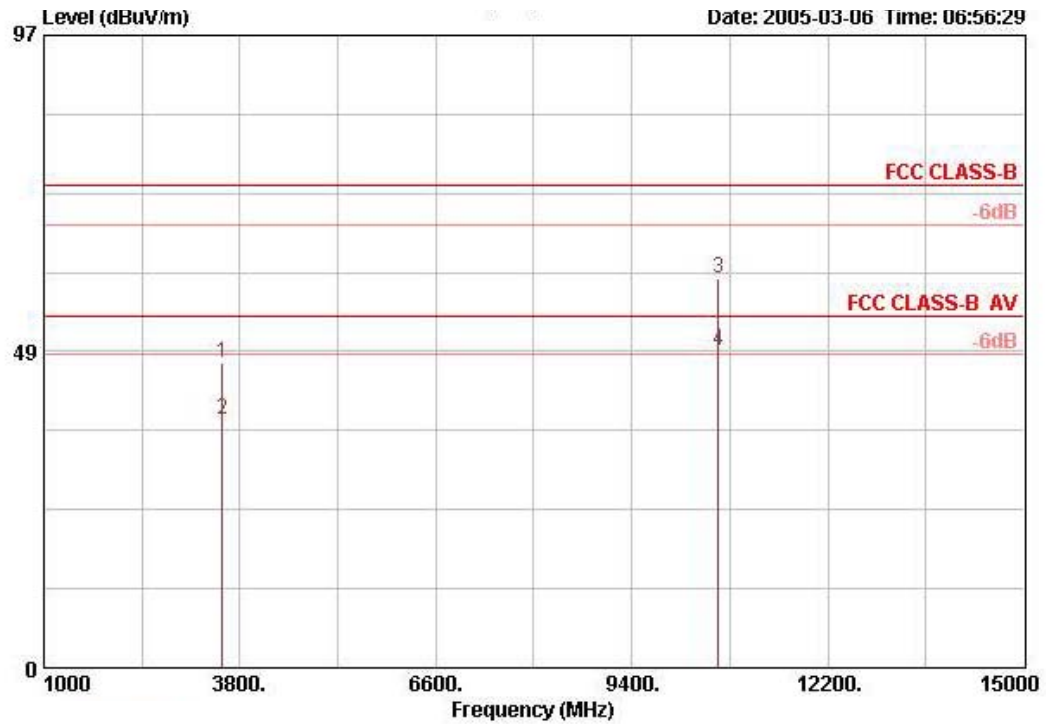


	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3545.600	41.95	-12.05	54.00	31.44	2.48	36.63	44.65	HORIZONTAL	AVERAGE
2	3545.600	49.68	-24.32	74.00	31.44	2.48	36.63	52.38	HORIZONTAL	PEAK
3	10638.960	56.99	-17.01	74.00	39.42	5.42	36.04	48.20	HORIZONTAL	PEAK
4	10640.400	46.57	-7.43	54.00	39.42	5.42	36.04	37.78	HORIZONTAL	AVERAGE

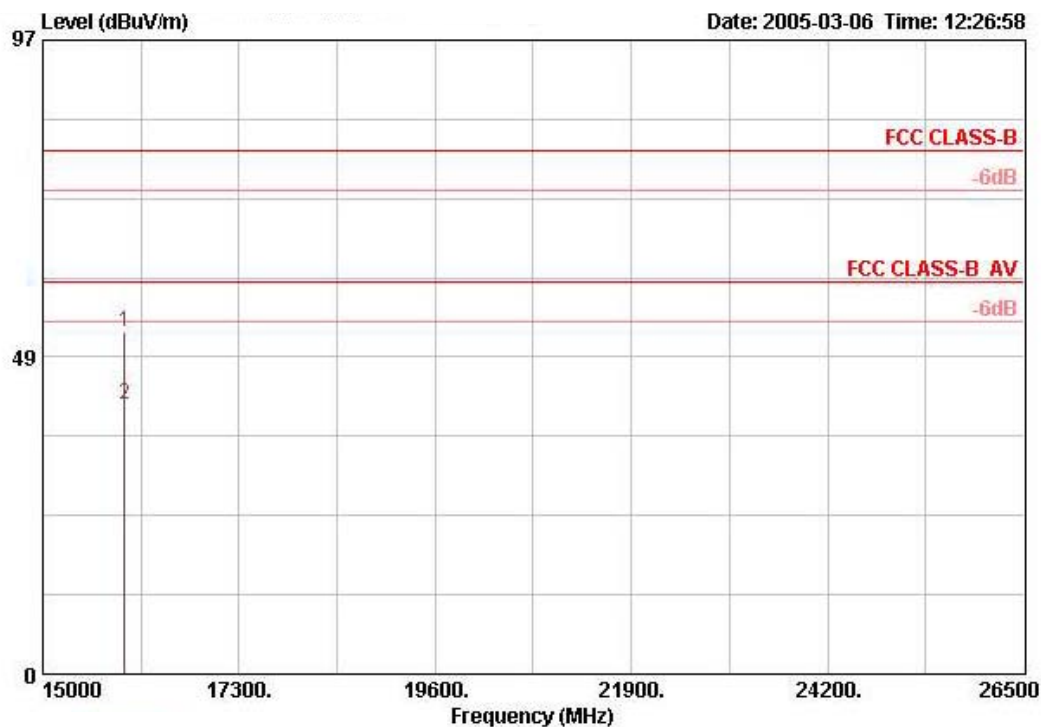


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamplifier Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15960.000	57.33	-22.67	80.00	37.16	6.60	37.24	50.80	HORIZONTAL	Peak
2	15960.000	46.30	-13.70	60.00	37.16	6.60	37.24	39.77	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3545.310	46.91	-27.09	74.00	31.44	2.48	36.63	49.61	VERTICAL	PEAK
2	3546.910	37.95	-16.05	54.00	31.44	2.48	36.63	40.65	VERTICAL	AVERAGE
3	10641.500	59.62	-14.38	74.00	39.42	5.42	36.04	50.83	VERTICAL	PEAK
4 !	10641.500	48.68	-5.32	54.00	39.42	5.42	36.04	39.89	VERTICAL	AVERAGE



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15960.000	52.22	-27.78	80.00	37.16	6.60	37.24	45.69	VERTICAL	Peak
2	15960.000	41.24	-18.76	60.00	37.16	6.60	37.24	34.71	VERTICAL	Average

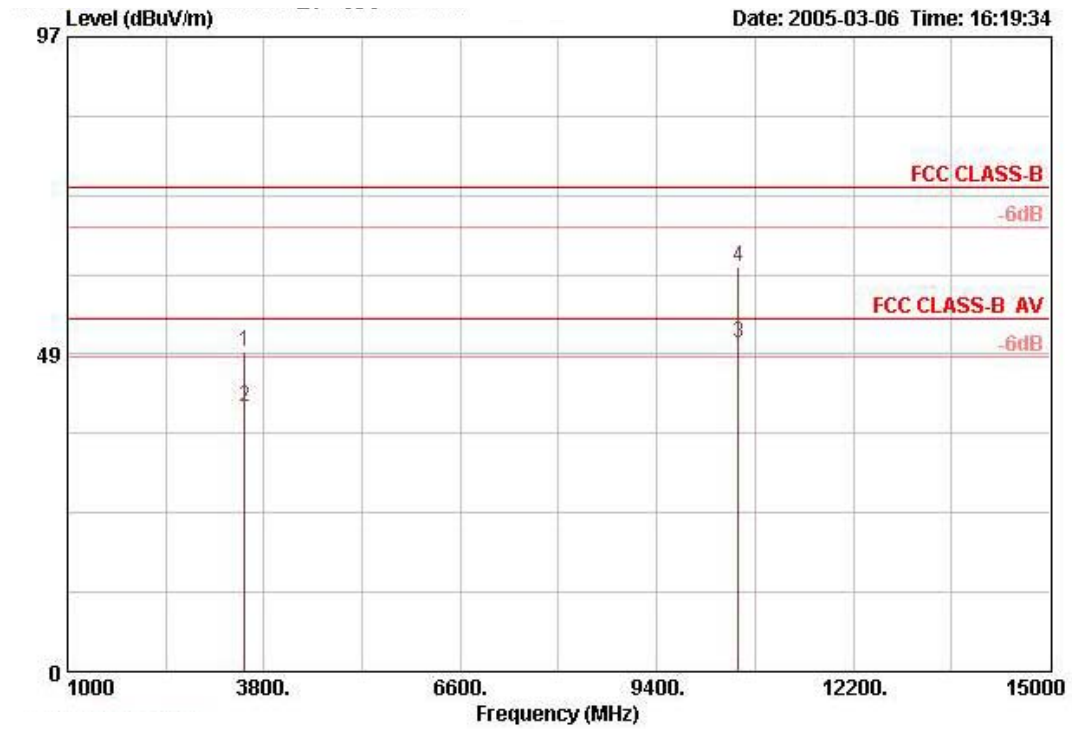
Note:

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

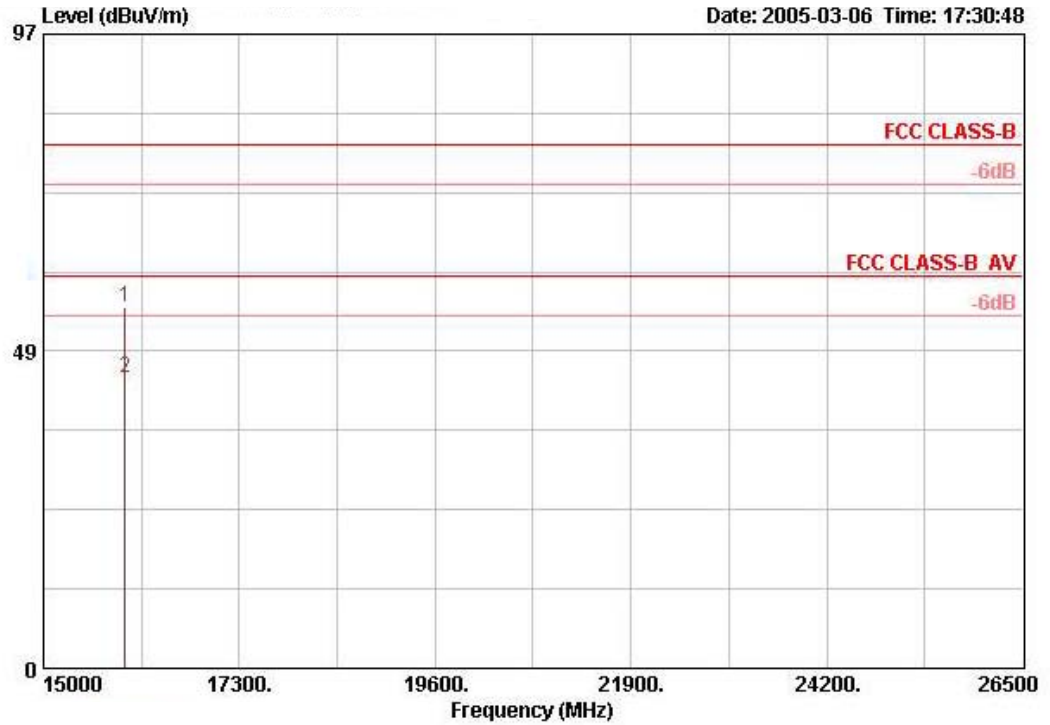
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

Mode 2

(A) Polarization: Horizontal

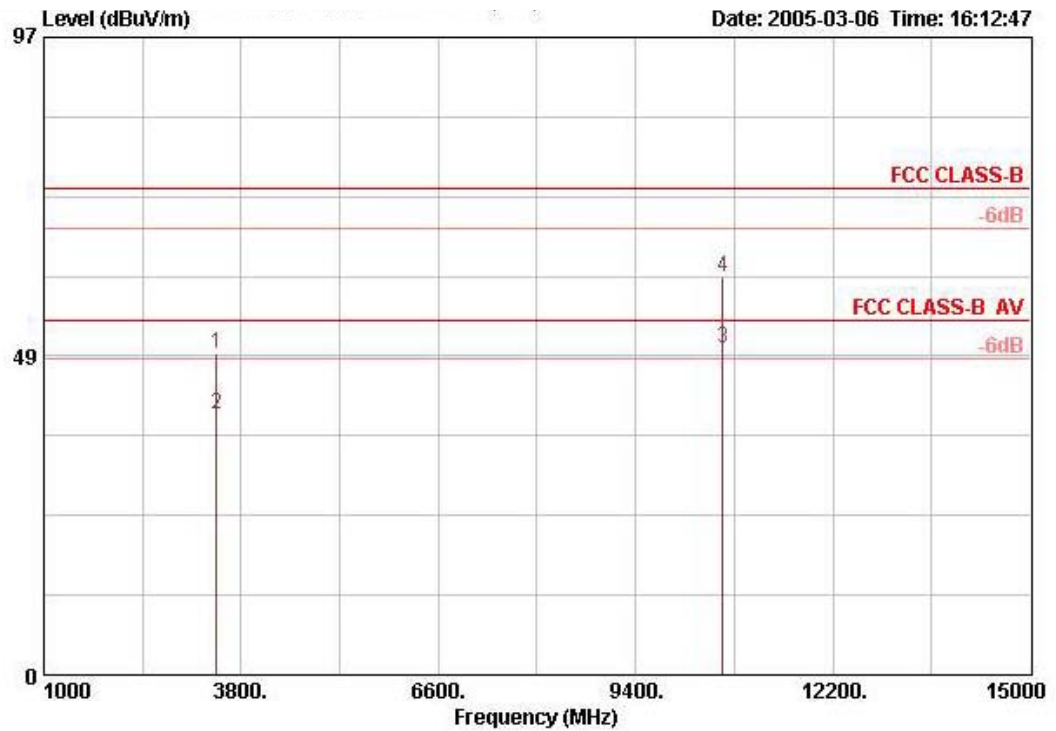


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3520.000	48.88	-25.12	74.00	31.35	2.48	36.61	51.66	HORIZONTAL	Peak
2	3520.000	40.52	-13.48	54.00	31.35	2.48	36.61	43.30	HORIZONTAL	Average
3	10560.000	50.22	-3.78	54.00	39.47	5.39	36.05	41.41	HORIZONTAL	Average
4	10560.000	61.85	-12.15	74.00	39.47	5.39	36.05	53.04	HORIZONTAL	Peak

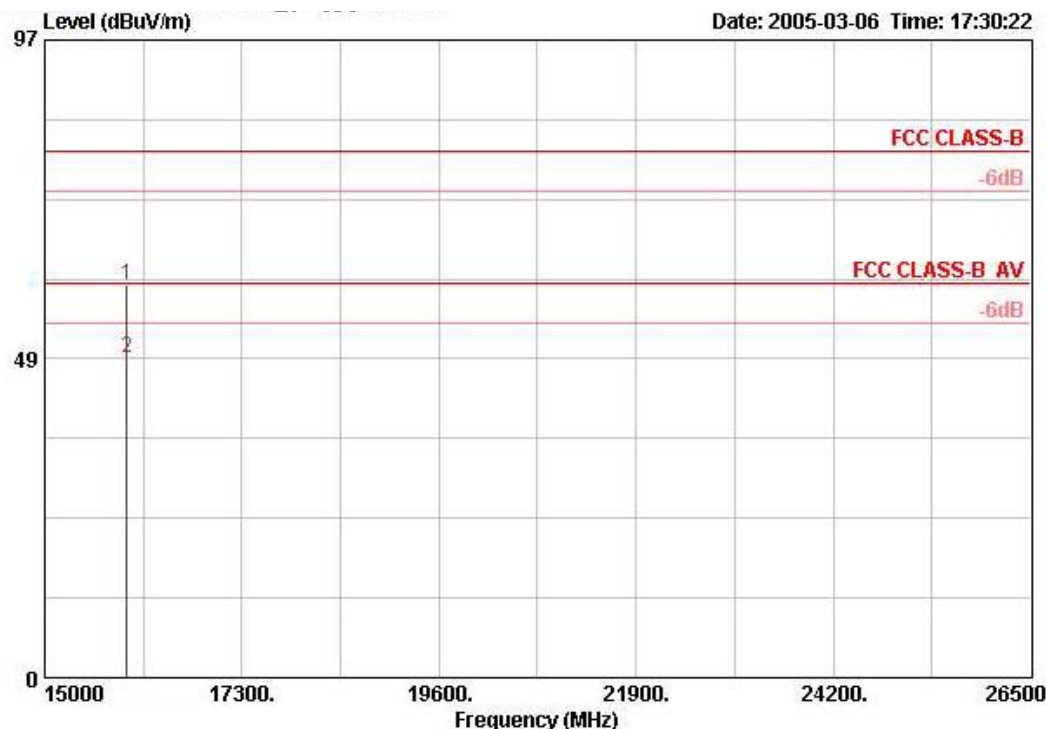


	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamplifier	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15960.000	55.14	-24.86	80.00	37.16	6.60	37.24	48.61	HORIZONTAL	Peak
2	15960.000	44.31	-15.69	60.00	37.16	6.60	37.24	37.78	HORIZONTAL	Average

(B) Polarization: Vertical



	Freq	Level	Over	Limit	Antenna	Cable	Preamp	Read		
	MHz	dBuV/m	Limit	Line	Factor	Loss	Factor	Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	3454.000	48.87	-25.13	74.00	31.19	2.37	36.60	51.91	HORIZONTAL	Peak
2	3454.000	39.65	-14.35	54.00	31.19	2.37	36.60	42.69	HORIZONTAL	Average
3	10640.000	49.82	-4.18	54.00	39.42	5.42	36.04	41.03	HORIZONTAL	Average
4	10640.000	60.42	-13.58	74.00	39.42	5.42	36.04	51.63	HORIZONTAL	Peak



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss	Preamp Factor	Read Level	Pol/Phase	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		
1	15960.000	59.66	-20.34	80.00	37.16	6.60	37.24	53.13	VERTICAL	Peak
2	15960.000	48.51	-11.49	60.00	37.16	6.60	37.24	41.98	VERTICAL	Average

Note:

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

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

5.8.11. Photographs of Radiated Emission Test Configuration

Mode 1

FRONT VIEW



REAR VIEW

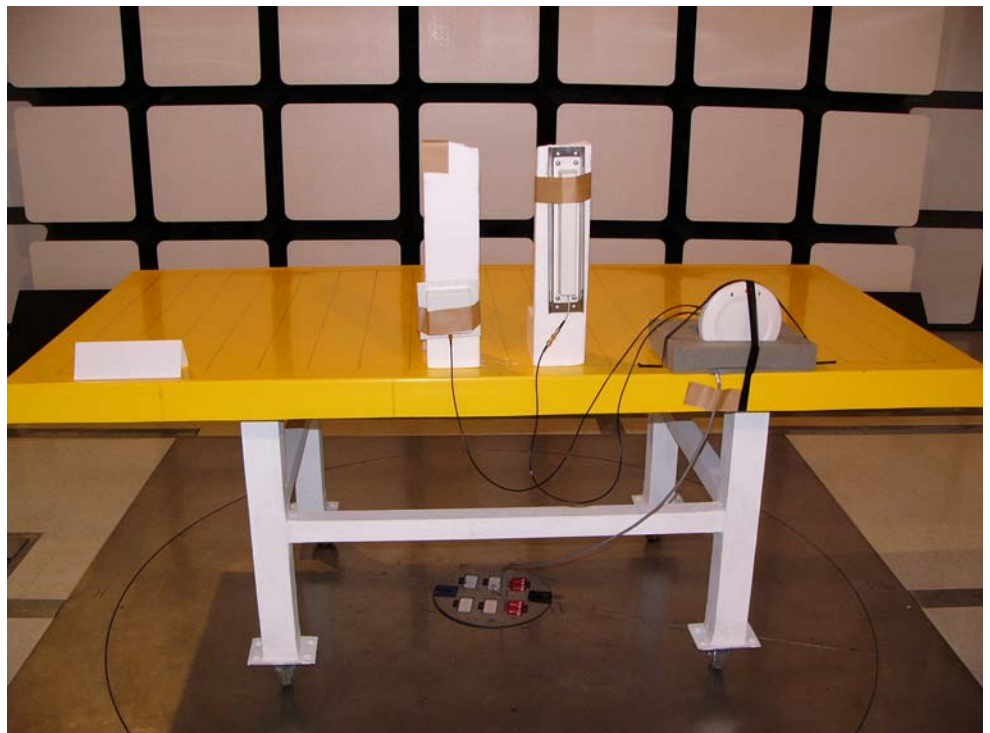


Mode 2

FRONT VIEW



REAR VIEW





5.9. Antenna Requirements

5.9.1. Standard Applicable

47 CFR Part15 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.

47 CFR Part15 Section 15.407:

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.

5.9.2. Antenna Connected Construction

Internal Antenna 5745MHz ~ 5825MHz, there are 4 kinds of antenna. External antenna connector are SMA. Internal antenna has no connector.

5.10. RF Exposure

5.10.1. 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

5.10.2. 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.

5.10.3. Calculated Result and Limit

- Temperature: 15°C
- Relative Humidity: 62%
- Duty Cycle of the Equipment During the Test: 100.00%
- Test Engineer: Ted Chiu

Mode 1

Frequency	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)
5180 MHz	4.00	2.51	16.82	48.08	0.0240	1
5200 MHz	4.00	2.51	16.85	48.42	0.0242	1
5240 MHz	4.00	2.51	16.79	47.75	0.0239	1
5260 MHz	4.00	2.51	21.61	144.88	0.0724	1
5280 MHz	4.00	2.51	21.47	140.28	0.0701	1
5320 MHz	4.00	2.51	21.54	142.56	0.0712	1

Mode 2

Frequency	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)
5180 MHz	14.50	28.18	7.96	6.25	0.0351	1
5200 MHz	14.50	28.18	7.99	6.30	0.0353	1
5240 MHz	14.50	28.18	7.93	6.21	0.0348	1
5260 MHz	14.50	28.18	14.77	29.99	0.1682	1
5280 MHz	14.50	28.18	14.93	31.12	0.1746	1
5320 MHz	14.50	28.18	14.83	30.41	0.1706	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.