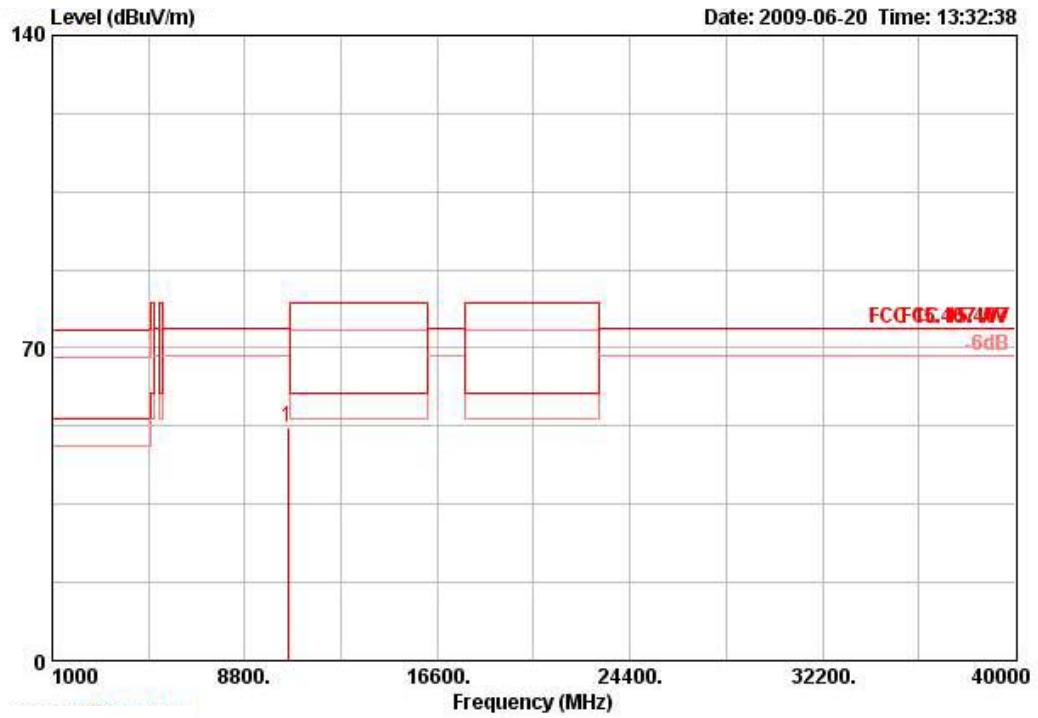


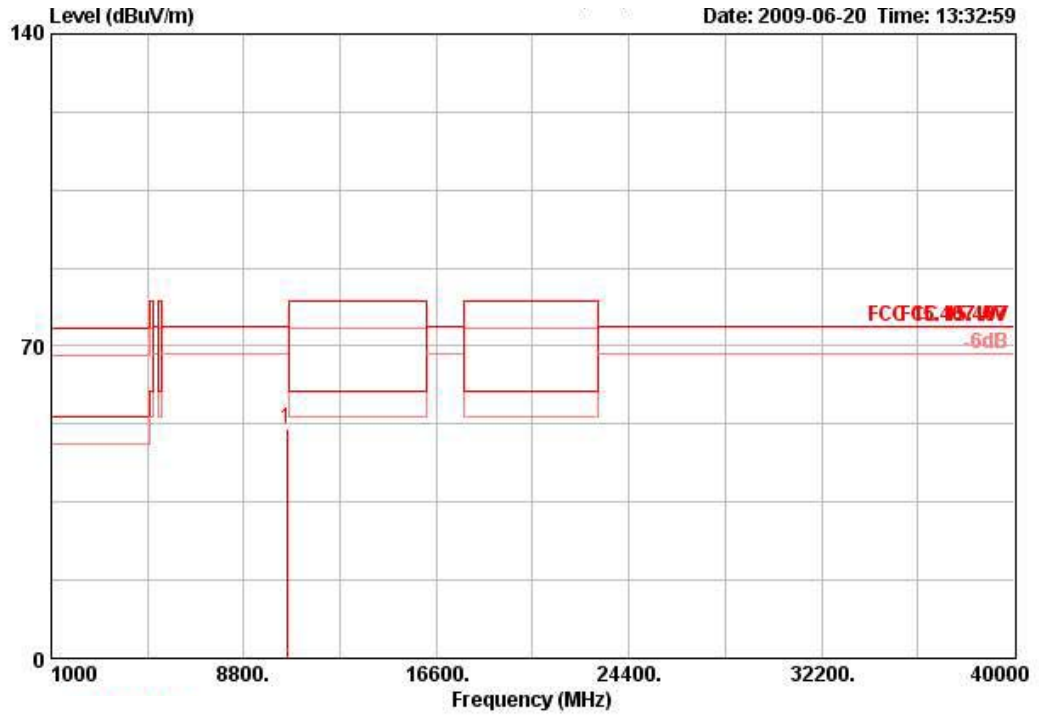
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 52 / Ant. 4

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	10539.700	52.09	74.30	-22.21	42.58	6.59	35.48	38.39	281	100	PEAK	HORIZONTAL

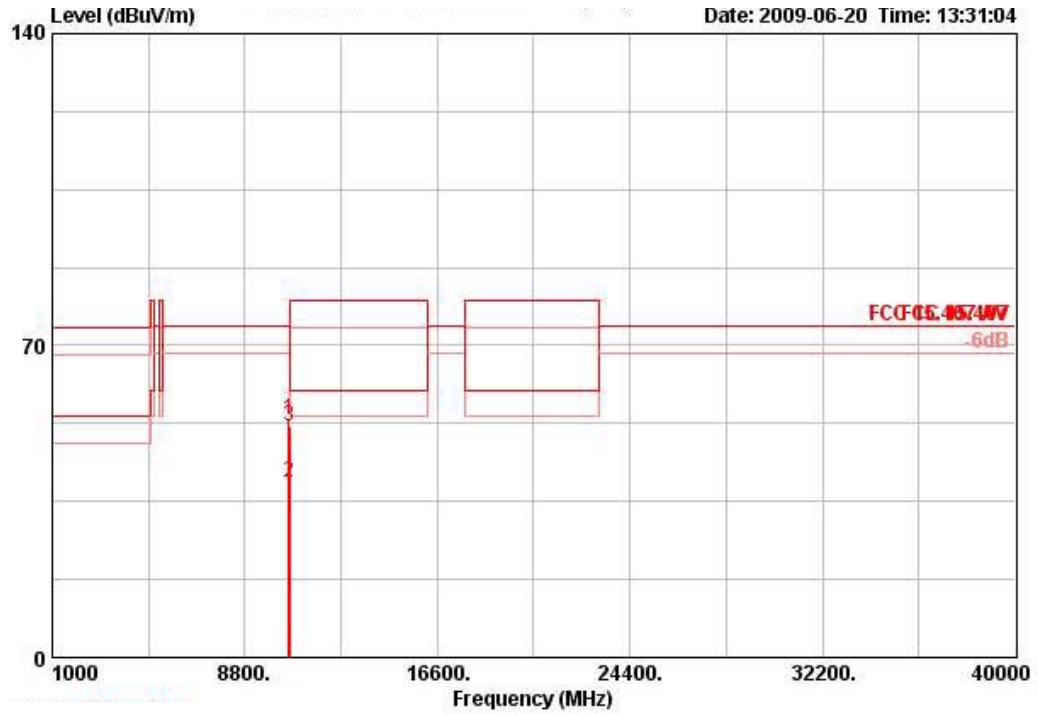
Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	Pos	Remark	Pol/Phase
1	10528.600	51.31	74.30	-22.99	41.81	6.59	35.48	38.39	93	100	PEAK	VERTICAL

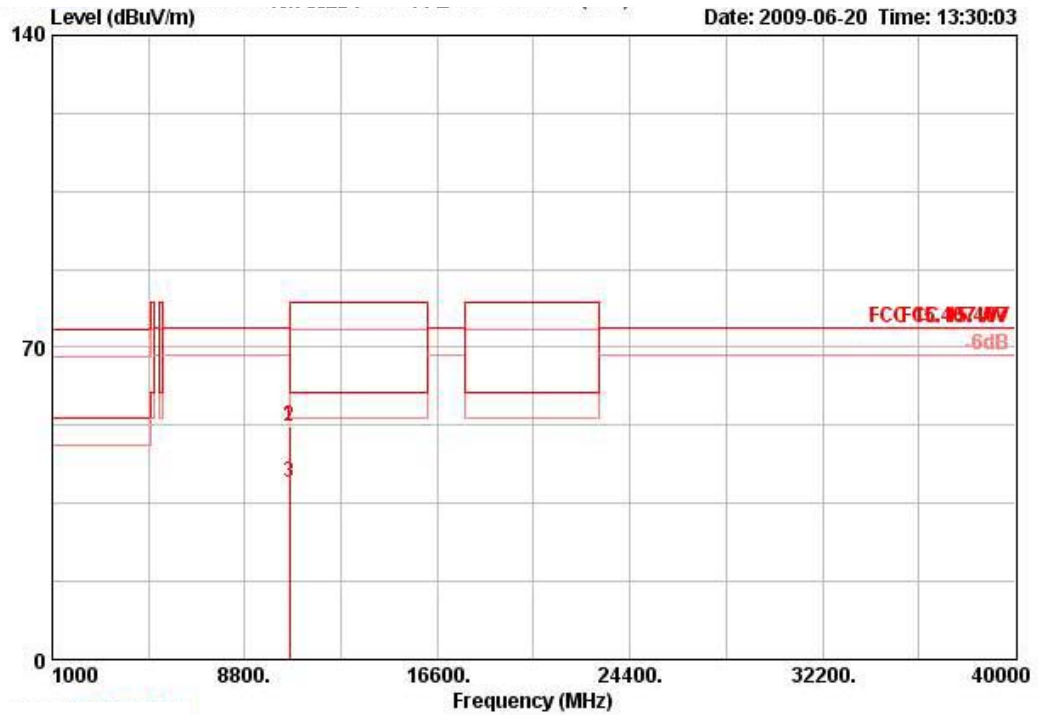
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 60 / Ant. 4

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBUV/m	dBUV/m	dB	dBUV	dB	dB	dB/m	deg	cm		
1	10590.100	53.37	74.30	-20.93	43.82	6.61	35.44	38.38	189	100	AVERAGE	HORIZONTAL
2	10600.020	39.36	60.00	-20.64	29.79	6.61	35.42	38.38	189	100	AVERAGE	HORIZONTAL
3	10600.020	51.82	80.00	-28.18	42.25	6.61	35.42	38.38	189	100	PEAK	HORIZONTAL

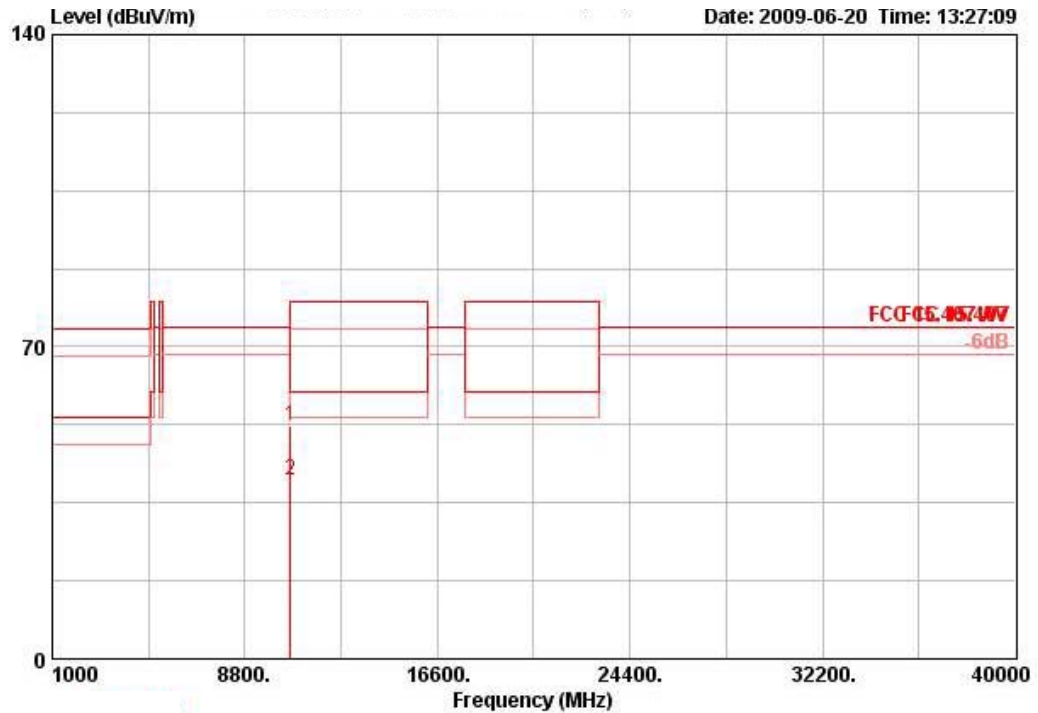
Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm	Remark	Pol/Phase
1	10595.500	52.13	74.30	-22.17	42.58	6.61	35.44	38.38	360	100	PEAK	VERTICAL
2	10600.020	52.28	80.00	-27.72	42.71	6.61	35.42	38.38	360	100	PEAK	VERTICAL
3	10600.230	39.54	60.00	-20.46	29.97	6.61	35.42	38.38	360	100	AVERAGE	VERTICAL

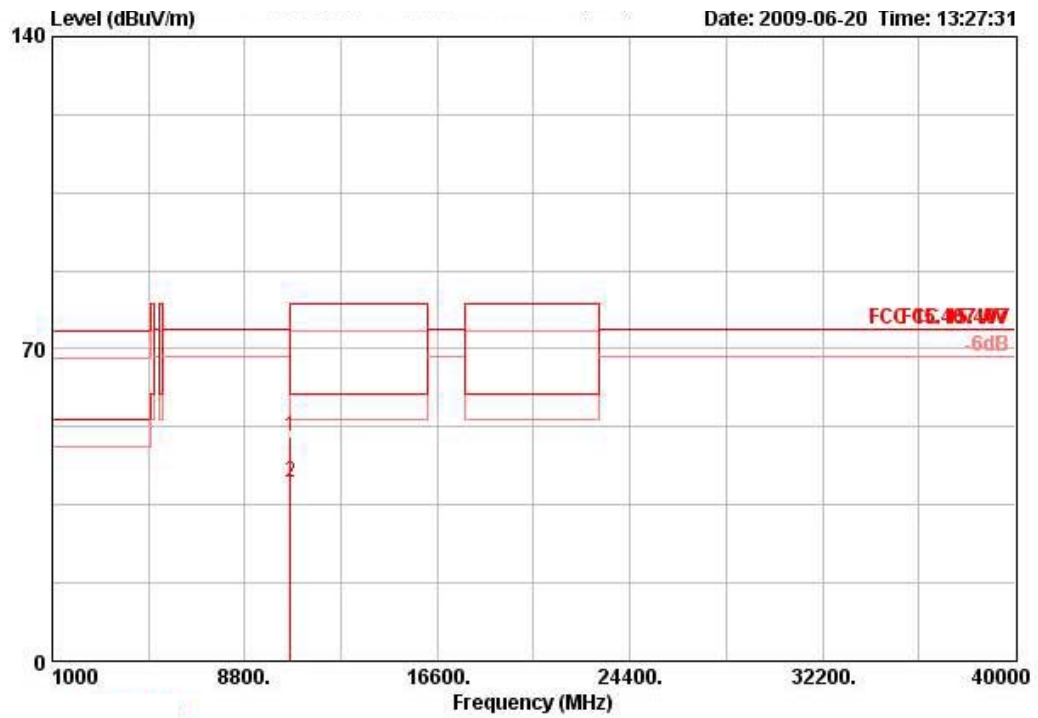
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 64 / Ant. 4

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	10639.960	52.35	80.00	-27.65	42.75	6.62	35.39	38.37	226	100	PEAK	HORIZONTAL
2	10640.240	40.09	60.00	-19.91	30.49	6.62	35.39	38.37	226	100	AVERAGE	HORIZONTAL

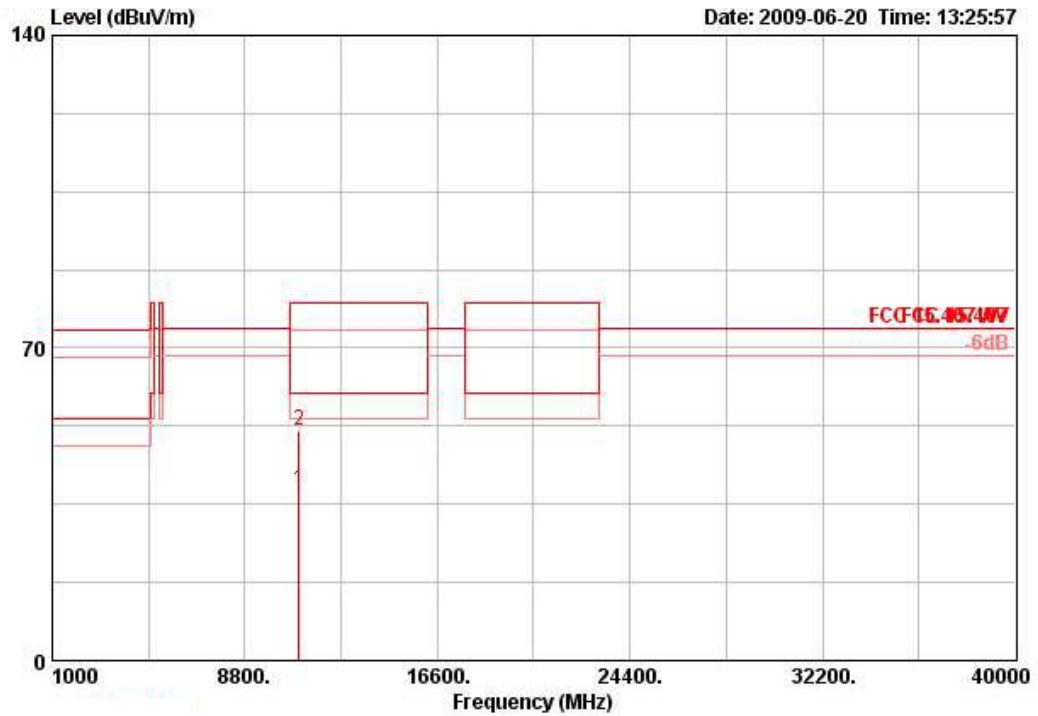
Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	10639.660	50.33	80.00	-29.67	40.73	6.62	35.39	38.37	104	100	PEAK	VERTICAL
2	10639.870	39.99	60.00	-20.01	30.39	6.62	35.39	38.37	104	100	AVERAGE	VERTICAL

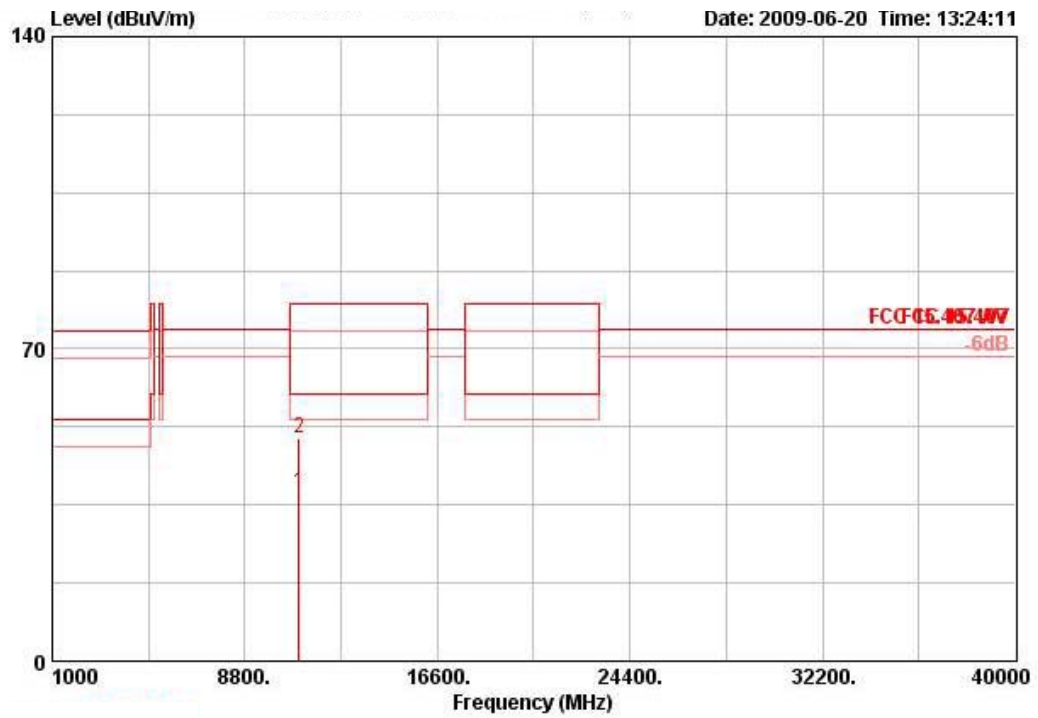
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 100 / Ant. 4

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	10999.790	38.29	60.00	-21.71	28.34	6.74	35.10	38.32	360	100	AVERAGE	HORIZONTAL
2	11000.440	51.57	80.00	-28.43	41.61	6.74	35.10	38.32	360	100	PEAK	HORIZONTAL

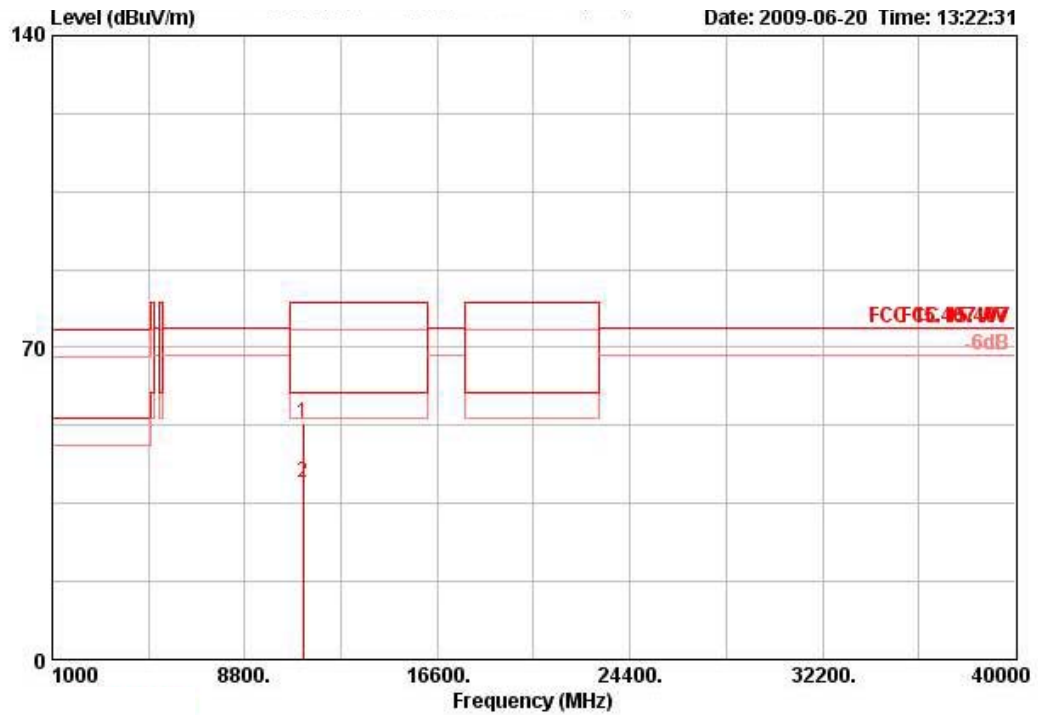
Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11000.170	37.88	60.00	-22.12	27.94	6.74	35.10	38.30	195	100	AVERAGE	VERTICAL
2	11000.470	49.93	80.00	-30.07	39.99	6.74	35.10	38.30	195	100	PEAK	VERTICAL

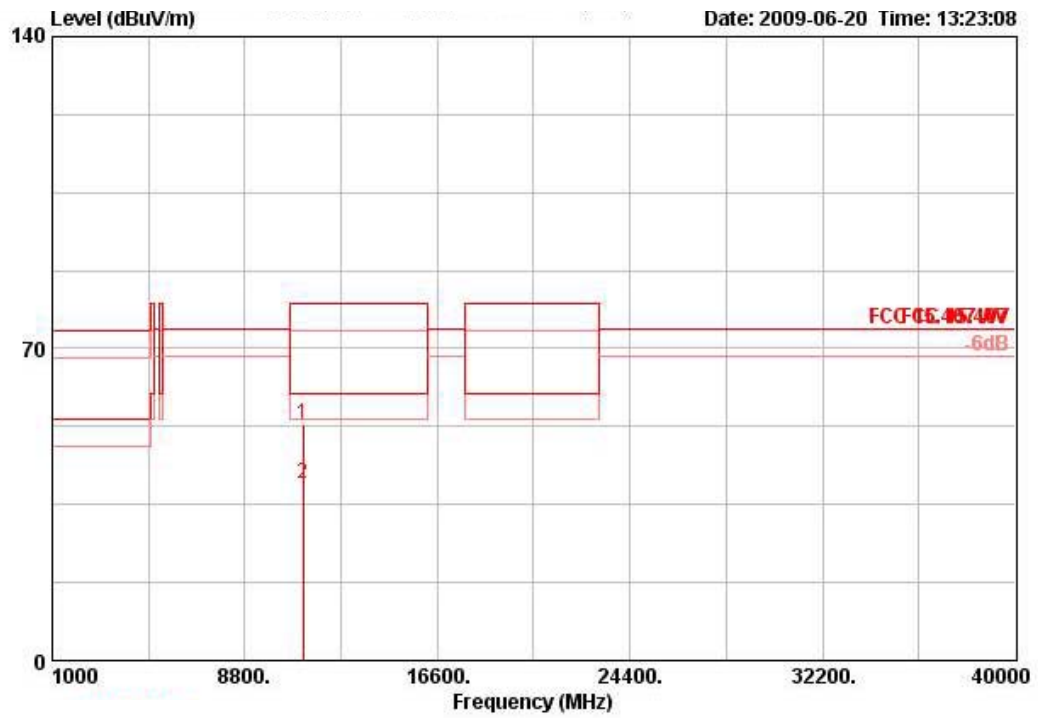
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 116 / Ant. 4

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11159.920	52.95	80.00	-27.05	42.91	6.74	35.17	38.47	171	101	PEAK	HORIZONTAL
2	11160.500	39.59	60.00	-20.41	29.55	6.74	35.17	38.47	171	101	AVERAGE	HORIZONTAL

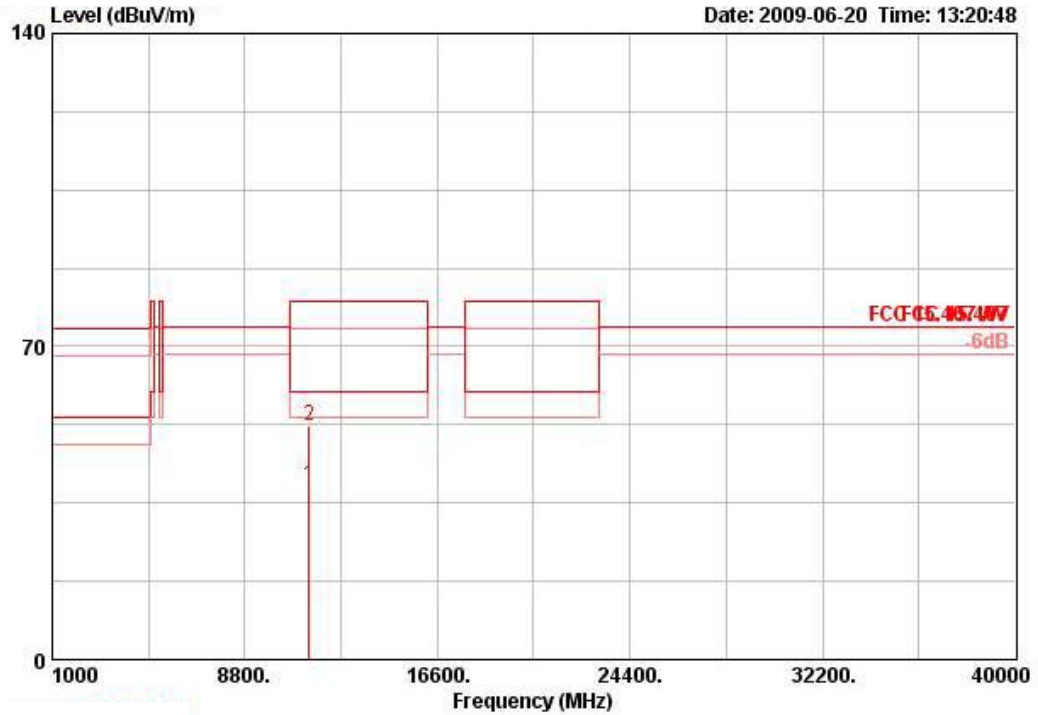
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11160.250	53.02	80.00	-26.98	42.98	6.74	35.17	38.47	286	100	PEAK	VERTICAL
2	11160.440	39.62	60.00	-20.38	29.58	6.74	35.17	38.47	286	100	AVERAGE	VERTICAL

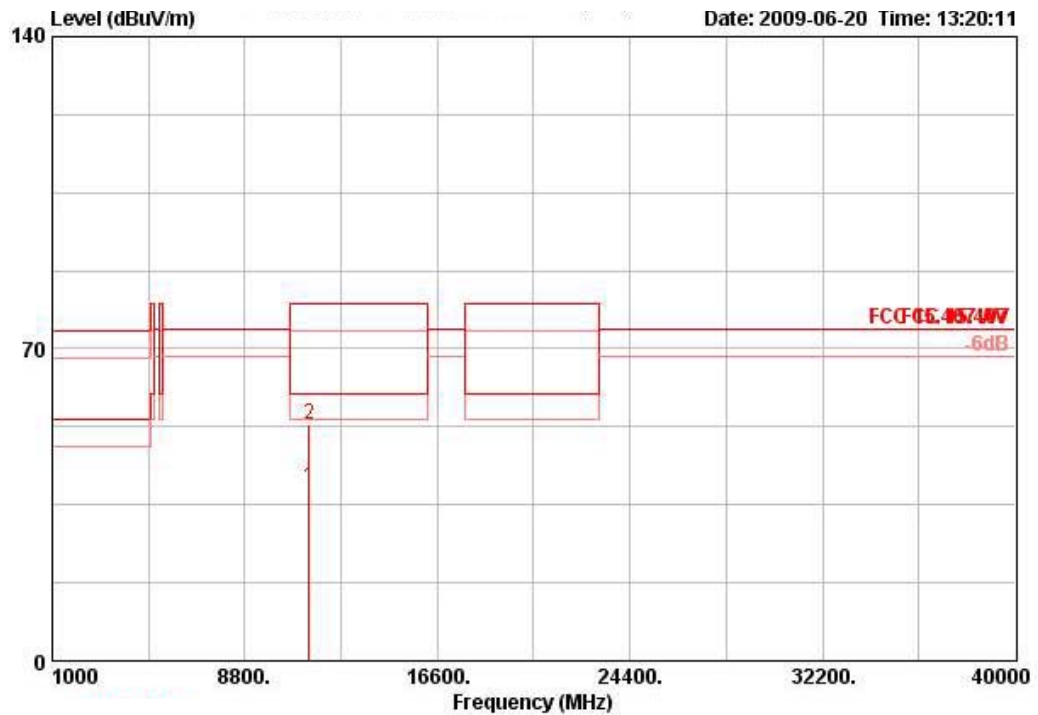
Temperature	25.6°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 140 / Ant. 3

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11399.560	38.98	60.00	-21.02	28.80	6.74	35.26	38.70	316	100	AVERAGE	HORIZONTAL
2	11399.810	52.14	80.00	-27.86	41.96	6.74	35.26	38.70	316	100	PEAK	HORIZONTAL

Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	11399.520	38.97	60.00	-21.03	28.78	6.74	35.26	38.70	227	100	AVERAGE	VERTICAL
2	11399.960	53.14	80.00	-26.86	42.95	6.74	35.26	38.70	227	100	PEAK	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

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 distance [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). For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.470-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, in case the emission falls 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 (micovolts/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 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	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

<For Antenna 1 >:

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 60, 64 / Ant. 1
Test Date	Jun. 18, 2009		

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5300.000	125.71			87.63	PEAK	4.14	0.00	33.94	248	137	VERTICAL
2 @	5301.400	116.57			78.49	AVERAGE	4.14	0.00	33.94	248	137	VERTICAL
3 @	5350.000	57.83	60.00	-2.17	19.62	AVERAGE	4.17	0.00	34.03	248	137	VERTICAL
4 @	5350.000	77.03	80.00	-2.97	38.83	PEAK	4.17	0.00	34.03	248	137	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5318.400	121.02			82.90	PEAK	4.16	0.00	33.97	252	143	VERTICAL
2 @	5318.600	112.37			74.24	AVERAGE	4.16	0.00	33.97	252	143	VERTICAL
3 @	5350.000	58.85	60.00	-1.15	20.65	AVERAGE	4.17	0.00	34.03	252	143	VERTICAL
4 @	5353.400	77.85	80.00	-2.15	39.65	PEAK	4.17	0.00	34.03	252	143	VERTICAL

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



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 100, 140 / Ant. 1
Test Date	Jun. 18, 2009		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5454.800	66.94	80.00	-13.06	28.50	PEAK	4.23	0.00	34.21	244	132	VERTICAL
2 ☺	5460.000	55.17	60.00	-4.83	16.73	AVERAGE	4.23	0.00	34.21	244	132	VERTICAL
3 ☺	5467.600	73.83	74.30	-0.47	35.36	PEAK	4.23	0.00	34.24	244	132	VERTICAL
4 ☺	5500.600	108.16			69.65	AVERAGE	4.26	0.00	34.26	244	132	VERTICAL
5 ☺	5503.600	122.93			84.40	PEAK	4.26	0.00	34.28	244	132	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5704.400	121.13			82.42	PEAK	4.38	0.00	34.34	261	146	VERTICAL
2 ☺	5705.000	111.38			72.67	AVERAGE	4.38	0.00	34.34	261	146	VERTICAL
3 ☺	5725.800	73.99	74.30	-0.31	35.25	PEAK	4.39	0.00	34.34	261	146	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 54, 62 / Ant. 1
Test Date	Jun. 18, 2009		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5267.600	106.00			67.99	AVERAGE	4.13	0.00	33.88	247	143	VERTICAL
2 ☺	5282.000	120.48			82.43	PEAK	4.13	0.00	33.91	247	143	VERTICAL
3 ☺	5350.000	58.91	60.00	-1.09	20.71	AVERAGE	4.17	0.00	34.03	247	143	VERTICAL
4 ☺	5350.800	76.21	80.00	-3.79	38.01	PEAK	4.17	0.00	34.03	247	143	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5300.400	115.51			77.42	PEAK	4.14	0.00	33.94	227	136	VERTICAL
2 ☺	5316.800	101.35			63.23	AVERAGE	4.16	0.00	33.97	227	136	VERTICAL
3 ☺	5350.000	59.42	60.00	-0.58	21.21	AVERAGE	4.17	0.00	34.03	227	136	VERTICAL
4 ☺	5350.000	78.43	80.00	-1.57	40.23	PEAK	4.17	0.00	34.03	227	136	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 102, 110, 134 / Ant. 1
Test Date	Jun. 18, 2009		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5457.600	69.20	80.00	-10.80	30.76	PEAK	4.23	0.00	34.21	257	125	VERTICAL
2 @	5460.000	55.54	60.00	-4.46	17.10	AVERAGE	4.23	0.00	34.21	257	125	VERTICAL
3 @	5464.800	73.59	74.30	-0.71	35.15	PEAK	4.23	0.00	34.21	257	125	VERTICAL
4 @	5501.200	114.91			76.37	PEAK	4.26	0.00	34.28	257	125	VERTICAL
5 @	5521.600	101.23			62.66	AVERAGE	4.27	0.00	34.30	257	125	VERTICAL

Item 4, 5 are the fundamental frequency at 5510MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5458.800	68.72	80.00	-11.28	30.28	PEAK	4.23	0.00	34.21	251	142	VERTICAL
2 @	5460.000	55.93	60.00	-4.07	17.49	AVERAGE	4.23	0.00	34.21	251	142	VERTICAL
3 @	5468.800	69.04	74.30	-5.26	30.55	PEAK	4.24	0.00	34.24	251	142	VERTICAL
4 @	5540.400	106.22			67.64	AVERAGE	4.27	0.00	34.31	251	142	VERTICAL
5 @	5540.400	120.08			81.50	PEAK	4.27	0.00	34.31	251	142	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5658.800	118.37			79.69	PEAK	4.35	0.00	34.33	265	141	VERTICAL
2 @	5658.800	104.39			65.71	AVERAGE	4.35	0.00	34.33	265	141	VERTICAL
3 @	5728.200	73.50	74.30	-0.80	34.76	PEAK	4.39	0.00	34.34	265	141	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note:

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 distance [3m] / test distance [1.5m]) (dB);

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



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 60, 64 / Ant. 1
Test Date	Jun. 18, 2009		

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5300.800	125.00			86.92	PEAK	4.14	0.00	33.94	247	139	VERTICAL
2 @	5304.000	111.91			73.83	AVERAGE	4.14	0.00	33.94	247	139	VERTICAL
3 @	5350.000	56.79	60.00	-3.21	18.59	AVERAGE	4.17	0.00	34.03	247	139	VERTICAL
4 @	5360.400	73.95	80.00	-6.05	35.75	PEAK	4.17	0.00	34.03	247	139	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5317.800	110.76			72.63	AVERAGE	4.16	0.00	33.97	248	128	VERTICAL
2 @	5324.400	123.01			84.88	PEAK	4.16	0.00	33.97	248	128	VERTICAL
3 @	5350.000	59.78	60.00	-0.22	21.57	AVERAGE	4.17	0.00	34.03	248	128	VERTICAL
4 @	5350.000	76.61	80.00	-3.39	38.41	PEAK	4.17	0.00	34.03	248	128	VERTICAL

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

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 100, 140 / Ant. 1
Test Date	Jun. 18, 2009		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5460.000	66.64	80.00	-13.36	28.21	PEAK	4.23	0.00	34.21	241	137	VERTICAL
2 ☺	5460.000	55.41	60.00	-4.59	16.98	AVERAGE	4.23	0.00	34.21	241	137	VERTICAL
3 ☺	5466.000	72.35	74.30	-1.95	33.91	PEAK	4.23	0.00	34.21	241	137	VERTICAL
4 ☺	5496.600	113.64			75.13	PEAK	4.26	0.00	34.26	241	137	VERTICAL
5 ☺	5502.400	109.60			71.06	AVERAGE	4.26	0.00	34.28	241	137	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5702.400	121.20			82.49	PEAK	4.38	0.00	34.34	259	148	VERTICAL
2 ☺	5703.000	108.93			70.22	AVERAGE	4.38	0.00	34.34	259	148	VERTICAL
3 ☺	5726.800	72.85	74.30	-1.45	34.11	PEAK	4.39	0.00	34.34	259	148	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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 form 3m to 1.5m.

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

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

<For Antenna 2>:

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 60, 64 / Ant. 2
Test Date	Jun. 18, 2009		

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5302.600	119.31			81.22	AVERAGE	4.14	0.00	33.94	322	100	VERTICAL
2 @	5303.600	130.95			92.86	PEAK	4.14	0.00	33.94	322	100	VERTICAL
3 @	5350.000	58.91	60.00	-1.09	20.71	AVERAGE	4.17	0.00	34.03	322	100	VERTICAL
4 @	5350.000	75.47	80.00	-4.53	37.26	PEAK	4.17	0.00	34.03	322	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5321.400	116.53			78.41	AVERAGE	4.16	0.00	33.97	320	100	VERTICAL
2 @	5321.600	126.40			88.28	PEAK	4.16	0.00	33.97	320	100	VERTICAL
3 @	5350.000	57.55	60.00	-2.45	19.35	AVERAGE	4.17	0.00	34.03	320	100	VERTICAL
4 @	5352.400	76.97	80.00	-3.03	38.77	PEAK	4.17	0.00	34.03	320	100	VERTICAL

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

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 100, 140 / Ant. 2
Test Date	Jun. 18, 2009		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5459.600	63.47	80.00	-16.53	25.03	PEAK	4.23	0.00	34.21	321	100	VERTICAL
2 ☺	5460.000	56.84	60.00	-3.16	18.40	AVERAGE	4.23	0.00	34.21	322	100	VERTICAL
3 ☺	5468.000	71.62	74.30	-2.68	33.14	PEAK	4.24	0.00	34.24	321	100	VERTICAL
4 ☺	5502.800	118.01			79.48	AVERAGE	4.26	0.00	34.28	322	100	VERTICAL
5 ☺	5503.000	127.03			88.50	PEAK	4.26	0.00	34.28	321	100	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5700.600	113.84			75.13	AVERAGE	4.38	0.00	34.34	320	100	VERTICAL
2 ☺	5701.600	123.42			84.71	PEAK	4.38	0.00	34.34	320	100	VERTICAL
3 ☺	5725.200	67.86	74.30	-6.44	29.12	PEAK	4.39	0.00	34.34	320	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 54, 62 / Ant. 2
Test Date	Jun. 19, 2009		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5259.600	124.63			86.66	PEAK	4.12	0.00	33.85	318	100	VERTICAL
2 ☺	5260.000	114.94			76.97	AVERAGE	4.12	0.00	33.85	318	100	VERTICAL
3 ☺	5350.000	59.67	60.00	-0.33	21.47	AVERAGE	4.17	0.00	34.03	318	100	VERTICAL
4 ☺	5350.000	73.77	80.00	-6.23	35.57	PEAK	4.17	0.00	34.03	318	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 ☺	5315.200	109.51			71.38	AVERAGE	4.16	0.00	33.97	318	100	VERTICAL
2 ☺	5320.400	121.14			83.01	PEAK	4.16	0.00	33.97	318	100	VERTICAL
3 ☺	5350.000	59.62	60.00	-0.38	21.42	AVERAGE	4.17	0.00	34.03	318	100	VERTICAL
4 ☺	5352.000	74.29	80.00	-5.71	36.09	PEAK	4.17	0.00	34.03	318	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 102, 110, 134 / Ant. 2
Test Date	Jun. 19, 2009		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5453.600	68.73	80.00	-11.27	30.29	PEAK	4.23	0.00	34.21	316	100	VERTICAL
2 @	5460.000	57.01	60.00	-2.99	18.58	AVERAGE	4.23	0.00	34.21	316	100	VERTICAL
3 @	5470.000	73.82	74.30	-0.48	35.34	PEAK	4.24	0.00	34.24	316	100	VERTICAL
4 @	5523.600	106.18			67.61	AVERAGE	4.27	0.00	34.30	316	100	VERTICAL
5 @	5526.400	118.90			80.32	PEAK	4.27	0.00	34.30	316	100	VERTICAL

Item 4, 5 are the fundamental frequency at 5510MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5458.000	66.48	80.00	-13.52	28.05	PEAK	4.23	0.00	34.21	317	100	VERTICAL
2 @	5460.000	59.25	60.00	-0.75	20.82	AVERAGE	4.23	0.00	34.21	317	100	VERTICAL
3 @	5467.600	73.32	74.30	-0.98	34.85	PEAK	4.23	0.00	34.24	317	100	VERTICAL
4 @	5535.600	126.41			87.83	PEAK	4.27	0.00	34.31	317	100	VERTICAL
5 @	5554.400	113.48			74.88	AVERAGE	4.29	0.00	34.31	317	100	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5662.400	123.28			84.60	PEAK	4.35	0.00	34.33	320	100	VERTICAL
2 @	5663.600	113.28			74.60	AVERAGE	4.35	0.00	34.33	320	100	VERTICAL
3 @	5725.000	73.93	74.30	-0.37	35.19	PEAK	4.39	0.00	34.34	320	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note:

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 form 3m to 1.5m.

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

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



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 60, 64 / Ant. 2
Test Date	Jun. 19, 2009		

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5298.800	122.25			84.17	AVERAGE	4.14	0.00	33.94	318	100	VERTICAL
2 @	5303.600	131.74			93.65	PEAK	4.14	0.00	33.94	318	100	VERTICAL
3 @	5350.000	59.14	60.00	-0.86	20.94	AVERAGE	4.17	0.00	34.03	318	100	VERTICAL
4 @	5350.000	78.39	80.00	-1.61	40.19	PEAK	4.17	0.00	34.03	318	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5321.400	128.38			90.25	PEAK	4.16	0.00	33.97	315	100	VERTICAL
2 @	5321.400	118.72			80.59	AVERAGE	4.16	0.00	33.97	315	100	VERTICAL
3 @	5350.000	58.80	60.00	-1.20	20.60	AVERAGE	4.17	0.00	34.03	315	100	VERTICAL
4 @	5351.400	78.01	80.00	-1.99	39.81	PEAK	4.17	0.00	34.03	315	100	VERTICAL

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



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 100, 140 / Ant. 2
Test Date	Jun. 18, 2009		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5454.800	68.74	80.00	-11.26	30.30	PEAK	4.23	0.00	34.21	319	100	VERTICAL
2 @	5460.000	56.93	60.00	-3.07	18.49	AVERAGE	4.23	0.00	34.21	319	100	VERTICAL
3 @	5469.800	72.81	74.30	-1.49	34.32	PEAK	4.24	0.00	34.24	319	100	VERTICAL
4 @	5495.400	117.33			78.82	AVERAGE	4.26	0.00	34.26	319	100	VERTICAL
5 @	5504.600	127.40			88.87	PEAK	4.26	0.00	34.28	319	100	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Remark	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV		dB	dB	dB/m	deg	cm	
1 @	5701.400	123.36			84.64	PEAK	4.38	0.00	34.34	315	100	VERTICAL
2 @	5701.800	113.72			75.01	AVERAGE	4.38	0.00	34.34	315	100	VERTICAL
3 @	5726.600	68.50	74.30	-5.80	29.76	PEAK	4.39	0.00	34.34	315	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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 form 3m to 1.5m.

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

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

<For Antenna 3>:

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 60, 64 / Ant. 3
Test Date	Jun. 22, 2009		

Channel 60

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Pos	Pos	Remark	Pol/Phase
			dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5298.400	128.18			90.10	4.14	0.00	33.94	142	109	PEAK	VERTICAL
2 @	5299.200	119.22			81.13	4.14	0.00	33.94	142	109	AVERAGE	VERTICAL
3 @	5350.000	59.69	60.00	-0.31	21.49	4.17	0.00	34.03	142	109	AVERAGE	VERTICAL
4 @	5350.000	79.07	80.00	-0.93	40.86	4.17	0.00	34.03	142	109	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Pos	Pos	Remark	Pol/Phase
			dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5318.000	123.16			85.03	4.16	0.00	33.97	148	110	PEAK	VERTICAL
2 @	5321.600	114.15			76.02	4.16	0.00	33.97	148	110	AVERAGE	VERTICAL
3 @	5350.200	58.90	60.00	-1.10	20.70	4.17	0.00	34.03	148	110	AVERAGE	VERTICAL
4 @	5352.400	75.77	80.00	-4.23	37.57	4.17	0.00	34.03	148	110	PEAK	VERTICAL

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

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 100, 140 / Ant. 3
Test Date	Jun. 22, 2009		

Channel 100

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Pos	Pos	Remark	Pol/Phase
				dB	dBuV	dB	dB	dB/m	deg	cm		
1 ☺	5459.000	69.10	80.00	-10.90	30.67	4.23	0.00	34.21	143	103	PEAK	VERTICAL
2 ☺	5460.000	57.39	60.00	-2.61	18.95	4.23	0.00	34.21	143	103	AVERAGE	VERTICAL
3 ☺	5470.000	72.30	74.30	-2.00	33.82	4.24	0.00	34.24	143	103	PEAK	VERTICAL
4 ☺	5496.800	123.65			85.13	4.26	0.00	34.26	143	103	PEAK	VERTICAL
5 ☺	5505.200	114.29			75.75	4.26	0.00	34.28	143	103	AVERAGE	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Pos	Pos	Remark	Pol/Phase
				dB	dBuV	dB	dB	dB/m	deg	cm		
1 ☺	5696.800	121.89			83.19	4.36	0.00	34.34	143	100	PEAK	VERTICAL
2 ☺	5702.000	112.67			73.96	4.38	0.00	34.34	143	100	AVERAGE	VERTICAL
3 ☺	5725.800	72.27	74.30	-2.03	33.54	4.39	0.00	34.34	143	100	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 54, 62 / Ant. 3
Test Date	Jun. 22, 2009		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5278.800	112.80			74.79	4.13	0.00	33.88	150	100	AVERAGE	VERTICAL
2 @	5283.200	122.27			84.23	4.13	0.00	33.91	150	100	PEAK	VERTICAL
3 @	5350.000	59.36	60.00	-0.64	21.16	4.17	0.00	34.03	150	100	AVERAGE	VERTICAL
4 @	5352.000	74.44	80.00	-5.56	36.24	4.17	0.00	34.03	150	100	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5302.400	106.26			68.17	4.14	0.00	33.94	148	110	AVERAGE	VERTICAL
2 @	5303.200	115.41			77.33	4.14	0.00	33.94	148	110	PEAK	VERTICAL
3 @	5350.000	59.53	60.00	-0.47	21.33	4.17	0.00	34.03	148	110	AVERAGE	VERTICAL
4 @	5350.000	71.44	80.00	-8.56	33.24	4.17	0.00	34.03	148	110	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 102, 110, 134 / Ant. 3
Test Date	Jun. 22, 2009		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5434.000	69.84	80.00	-10.16	31.45	4.21	0.00	34.18	144	103	PEAK	VERTICAL
2 @	5460.000	58.18	60.00	-1.82	19.75	4.23	0.00	34.21	144	103	AVERAGE	VERTICAL
3 @	5466.000	74.08	74.30	-0.22	35.65	4.23	0.00	34.21	144	103	PEAK	VERTICAL
4 @	5515.600	108.55			70.01	4.26	0.00	34.28	144	103	AVERAGE	VERTICAL
5 @	5516.000	118.21			79.67	4.26	0.00	34.28	144	103	PEAK	VERTICAL

Item 4, 5 are the fundamental frequency at 5510MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5459.200	72.12	80.00	-7.88	33.68	4.23	0.00	34.21	139	100	PEAK	VERTICAL
2 @	5460.000	58.64	60.00	-1.36	20.21	4.23	0.00	34.21	139	100	AVERAGE	VERTICAL
3 @	5468.400	73.11	74.30	-1.19	34.63	4.24	0.00	34.24	139	100	PEAK	VERTICAL
4 @	5543.600	113.81			75.24	4.27	0.00	34.31	139	100	AVERAGE	VERTICAL
5 @	5558.400	123.44			84.85	4.29	0.00	34.31	139	100	PEAK	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5657.200	119.67			81.00	4.35	0.00	34.33	146	100	PEAK	VERTICAL
2 @	5662.400	109.94			71.26	4.35	0.00	34.33	146	100	AVERAGE	VERTICAL
3 @	5725.000	73.48	74.30	-0.82	34.74	4.39	0.00	34.34	146	100	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note:

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 distance [3m] / test distance [1.5m]) (dB);

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



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 60, 64 / Ant. 3
Test Date	Jun. 22, 2009		

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5295.600	128.20			90.15	4.14	0.00	33.91	157	100	PEAK	VERTICAL
2 @	5297.600	117.75			79.66	4.14	0.00	33.94	157	100	AVERAGE	VERTICAL
3 @	5350.000	59.52	60.00	-0.48	21.32	4.17	0.00	34.03	157	100	AVERAGE	VERTICAL
4 @	5350.400	74.83	80.00	-5.17	36.63	4.17	0.00	34.03	157	100	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5316.200	112.31			74.18	4.16	0.00	33.97	152	110	AVERAGE	VERTICAL
2 @	5317.000	124.30			86.17	4.16	0.00	33.97	152	110	PEAK	VERTICAL
3 @	5350.000	59.34	60.00	-0.66	21.14	4.17	0.00	34.03	152	110	AVERAGE	VERTICAL
4 @	5350.200	78.96	80.00	-1.04	40.76	4.17	0.00	34.03	152	110	PEAK	VERTICAL

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

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 100, 140 / Ant. 3
Test Date	Jun. 22, 2009		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5456.000	69.75	80.00	-10.25	31.32	4.23	0.00	34.21	151	105	PEAK	VERTICAL
2 @	5460.000	57.44	60.00	-2.56	19.00	4.23	0.00	34.21	151	105	AVERAGE	VERTICAL
3 @	5467.800	74.21	74.30	-0.09	35.74	4.23	0.00	34.24	151	105	PEAK	VERTICAL
4 @	5499.000	124.79			86.27	4.26	0.00	34.26	151	105	PEAK	VERTICAL
5 @	5503.800	113.76			75.23	4.26	0.00	34.28	151	105	AVERAGE	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5697.800	122.17			83.46	4.38	0.00	34.34	144	100	PEAK	VERTICAL
2 @	5702.600	111.74			73.03	4.38	0.00	34.34	144	100	AVERAGE	VERTICAL
3 @	5725.200	71.87	74.30	-2.43	33.14	4.39	0.00	34.34	144	100	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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 form 3m to 1.5m.

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

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

<For Antenna 4>:

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 60, 64 / Ant. 4
Test Date	Jun. 20, 2009		

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5302.200	118.56			80.47	4.14	0.00	33.94	318	100	AVERAGE	HORIZONTAL
2 @	5302.800	129.33			91.25	4.14	0.00	33.94	318	100	PEAK	HORIZONTAL
3 @	5350.000	59.63	60.00	-0.37	21.43	4.17	0.00	34.03	318	100	AVERAGE	HORIZONTAL
4 @	5350.000	71.10	80.00	-8.90	32.90	4.17	0.00	34.03	318	100	PEAK	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5319.000	128.08			89.95	4.16	0.00	33.97	318	100	PEAK	HORIZONTAL
2 @	5321.600	117.59			79.46	4.16	0.00	33.97	318	100	AVERAGE	HORIZONTAL
3 @	5350.000	59.58	60.00	-0.42	21.38	4.17	0.00	34.03	318	100	AVERAGE	HORIZONTAL
4 @	5351.800	71.72	80.00	-8.28	33.51	4.17	0.00	34.03	318	100	PEAK	HORIZONTAL

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



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 20MHz Ch 100, 140 / Ant. 4
Test Date	Jun. 20, 2009		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 ☺	5457.800	70.69	80.00	-9.31	32.28	4.23	0.00	34.19	319	100	PEAK	HORIZONTAL
2 ☺	5460.000	58.22	60.00	-1.78	19.81	4.23	0.00	34.19	319	100	AVERAGE	HORIZONTAL
3 ☺	5468.400	70.25	74.30	-4.05	31.80	4.24	0.00	34.21	319	100	PEAK	HORIZONTAL
4 ☺	5498.400	115.91			77.42	4.26	0.00	34.23	319	100	AVERAGE	HORIZONTAL
5 ☺	5502.400	127.73			89.23	4.26	0.00	34.25	319	100	PEAK	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 ☺	5694.800	116.77			78.07	4.36	0.00	34.34	317	100	AVERAGE	HORIZONTAL
2 ☺	5697.000	128.48			89.78	4.36	0.00	34.34	317	100	PEAK	HORIZONTAL
3 ☺	5725.000	73.79	74.30	-0.51	35.05	4.39	0.00	34.34	317	100	PEAK	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5700 MHz.



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 54, 62 / Ant. 4
Test Date	Jun. 20, 2009		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 ☺	5262.800	110.87			72.87	4.12	0.00	33.88	320	100	AVERAGE	VERTICAL
2 ☺	5280.400	122.67			84.63	4.13	0.00	33.91	320	100	PEAK	VERTICAL
3 ☺	5352.000	59.41	60.00	-0.59	21.21	4.17	0.00	34.03	320	100	AVERAGE	VERTICAL
4 ☺	5356.400	71.80	80.00	-8.20	33.60	4.17	0.00	34.03	320	100	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 ☺	5316.000	106.95			68.83	4.16	0.00	33.97	318	100	AVERAGE	HORIZONTAL
2 ☺	5316.800	118.07			79.94	4.16	0.00	33.97	318	100	PEAK	HORIZONTAL
3 ☺	5350.000	59.81	60.00	-0.19	21.61	4.17	0.00	34.03	318	100	AVERAGE	HORIZONTAL
4 ☺	5350.000	71.56	80.00	-8.44	33.36	4.17	0.00	34.03	318	100	PEAK	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5310 MHz.



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	Draft n MCS0 40MHz Ch 102, 110, 134 / Ant. 4
Test Date	Jun. 20, 2009		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5427.600	73.76	80.00	-6.24	35.39	4.21	0.00	34.15	317	100	PEAK	HORIZONTAL
2 @	5459.600	59.37	60.00	-0.63	20.96	4.23	0.00	34.19	317	100	AVERAGE	HORIZONTAL
3 @	5469.200	73.97	74.30	-0.33	35.52	4.24	0.00	34.21	317	100	PEAK	HORIZONTAL
4 @	5504.400	109.28			70.77	4.26	0.00	34.25	317	100	AVERAGE	HORIZONTAL
5 @	5507.200	119.54			81.04	4.26	0.00	34.25	317	100	PEAK	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5510MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5454.000	71.96	80.00	-8.04	33.54	4.23	0.00	34.19	317	100	PEAK	HORIZONTAL
2 @	5460.000	59.64	60.00	-0.36	21.22	4.23	0.00	34.19	317	100	AVERAGE	HORIZONTAL
3 @	5466.000	72.43	74.30	-1.87	34.01	4.23	0.00	34.19	317	100	PEAK	HORIZONTAL
4 @	5538.800	108.96			70.40	4.27	0.00	34.29	317	100	AVERAGE	HORIZONTAL
5 @	5542.400	120.23			81.67	4.27	0.00	34.29	317	100	PEAK	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5661.200	125.37			86.69	4.35	0.00	34.33	317	100	PEAK	HORIZONTAL
2 @	5663.200	113.21			74.54	4.35	0.00	34.33	318	100	AVERAGE	HORIZONTAL
3 @	5735.800	73.28	74.30	-1.02	34.55	4.39	0.00	34.34	317	100	PEAK	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note:

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 distance [3m] / test distance [1.5m]) (dB);

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

Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 60, 64 / Ant. 4
Test Date	Jun. 20, 2009		

Channel 60

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm	Remark	Pol/Phase
1 @	5299.000	119.40			81.32	4.14	0.00	33.94	317	100	AVERAGE	HORIZONTAL
2 @	5302.200	129.54			91.45	4.14	0.00	33.94	317	100	PEAK	HORIZONTAL
3 @	5350.000	59.77	60.00	-0.23	21.57	4.17	0.00	34.03	317	100	AVERAGE	HORIZONTAL
4 @	5350.000	71.93	80.00	-8.07	33.72	4.17	0.00	34.03	317	100	PEAK	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Table	Ant		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm	Remark	Pol/Phase
1 @	5318.800	116.93			78.80	4.16	0.00	33.97	317	100	AVERAGE	VERTICAL
2 @	5322.600	128.24			90.11	4.16	0.00	33.97	317	100	PEAK	VERTICAL
3 @	5350.000	59.96	60.00	-0.04	21.76	4.17	0.00	34.03	317	100	AVERAGE	VERTICAL
4 @	5352.200	73.32	80.00	-6.68	35.12	4.17	0.00	34.03	317	100	PEAK	VERTICAL

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



Temperature	21°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	802.11a Ch 100, 140 / Ant. 4
Test Date	Jun. 20, 2009		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5460.000	58.23	60.00	-1.77	19.81	4.23	0.00	34.19	319	100	AVERAGE	HORIZONTAL
2 @	5460.000	70.18	80.00	-9.82	31.76	4.23	0.00	34.19	319	100	PEAK	HORIZONTAL
3 @	5469.800	70.57	74.30	-3.73	32.12	4.24	0.00	34.21	319	100	PEAK	HORIZONTAL
4 @	5498.800	114.61			76.12	4.26	0.00	34.23	319	100	AVERAGE	HORIZONTAL
5 @	5505.200	125.29			86.78	4.26	0.00	34.25	319	100	PEAK	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Table Pos	Ant Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 @	5695.800	126.92			88.22	4.36	0.00	34.34	319	100	PEAK	VERTICAL
2 @	5697.200	115.25			76.55	4.36	0.00	34.34	319	100	AVERAGE	VERTICAL
3 @	5729.800	70.15	74.30	-4.15	31.42	4.39	0.00	34.34	319	100	PEAK	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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 form 3m to 1.5m.

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

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

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 $\pm 20\text{ppm}$ (Draft n specification).

4.8.2. Measuring Instruments and Setting

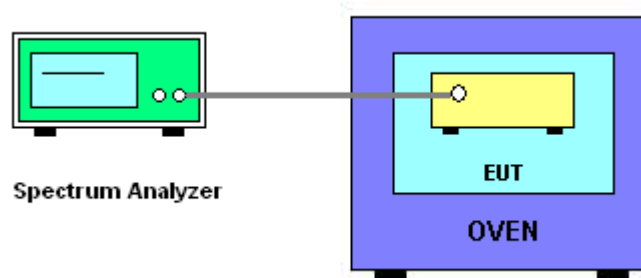
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	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 $\pm 20\text{ppm}$ (Draft n 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 $-30^\circ\text{C} \sim 50^\circ\text{C}$.
8. Measuring multiple antennas, the connector is required to link with spectrum analyzer through a combiner.

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

<For Antenna 1 >:

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5300.0139
110.00	5300.0238
93.50	5300.0264
Max. Deviation (MHz)	0.026350
Max. Deviation (ppm)	4.97

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9839
-20	5299.9662
-10	5299.9541
0	5299.9516
10	5299.9544
20	5299.9584
30	5299.9580
40	5299.9528
50	5299.9528
Max. Deviation (MHz)	0.048400
Max. Deviation (ppm)	9.13

<For Antenna 2>:

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5300.0139
110.00	5300.0238
93.50	5300.0264
Max. Deviation (MHz)	0.026350
Max. Deviation (ppm)	4.97

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9839
-20	5299.9662
-10	5299.9541
0	5299.9516
10	5299.9544
20	5299.9584
30	5299.9580
40	5299.9528
50	5299.9528
Max. Deviation (MHz)	0.048400
Max. Deviation (ppm)	9.13

<For Antenna 3>:

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5300.0139
110.00	5300.0238
93.50	5300.0264
Max. Deviation (MHz)	0.026350
Max. Deviation (ppm)	4.97

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9839
-20	5299.9662
-10	5299.9541
0	5299.9516
10	5299.9544
20	5299.9584
30	5299.9580
40	5299.9528
50	5299.9528
Max. Deviation (MHz)	0.048400
Max. Deviation (ppm)	9.13

<For Antenna 4>:

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5300.0139
110.00	5300.0238
93.50	5300.0264
Max. Deviation (MHz)	0.026350
Max. Deviation (ppm)	4.97

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9839
-20	5299.9662
-10	5299.9541
0	5299.9516
10	5299.9544
20	5299.9584
30	5299.9580
40	5299.9528
50	5299.9528
Max. Deviation (MHz)	0.048400
Max. Deviation (ppm)	9.13

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; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Apr. 15, 2009	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 23, 2009	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2009	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2009	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Jun. 11, 2009	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. 07, 2009	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 23, 2009	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jul. 21, 2008	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Apr. 06, 2009*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100023	9 kHz - 30 GHz	Feb. 02, 2009	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul. 28, 2008*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 12, 2008	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 28, 2009	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.16, 2009	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Jan. 05, 2009	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Jan. 05, 2009	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	FSU26.5	100015	20Hz ~ 26.5GHz	Oct. 29, 2008	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jul. 11, 2008	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 11, 2008	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Jul. 12, 2009*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2009	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Jul. 18, 2008	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2008	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2008	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Dec. 14, 2008	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 25, 2009	Conducted (TH01-HY)

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

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

Note: NCR means Non-Calibration required.

6. TEST LOCATION

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 886-2-2696-2468 FAX : 886-2-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 886-2-2601-1640 FAX : 886-2-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 886-2-2631-4739 FAX : 886-2-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION

Certificate No. : L1190-070110

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien,
Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	: ISO/IEC 17025:2005
Accreditation Number	: 1190
Originally Accredited	: December 15, 2003
Effective Period	: January 10, 2007 to January 09, 2010
Accredited Scope	: Testing Field, see described in the Appendix
Specific Accreditation Program	: Accreditation Program for Designated Testing Laboratory for Commodities Inspection : Accreditation Program for Telecommunication Equipment Testing Laboratory



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

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