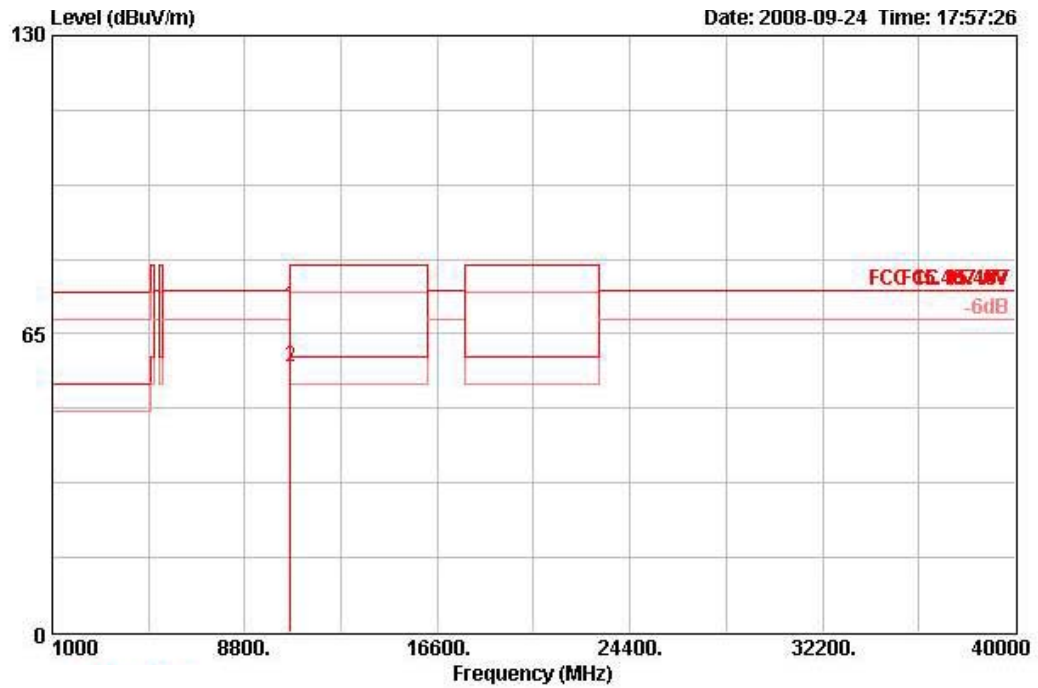


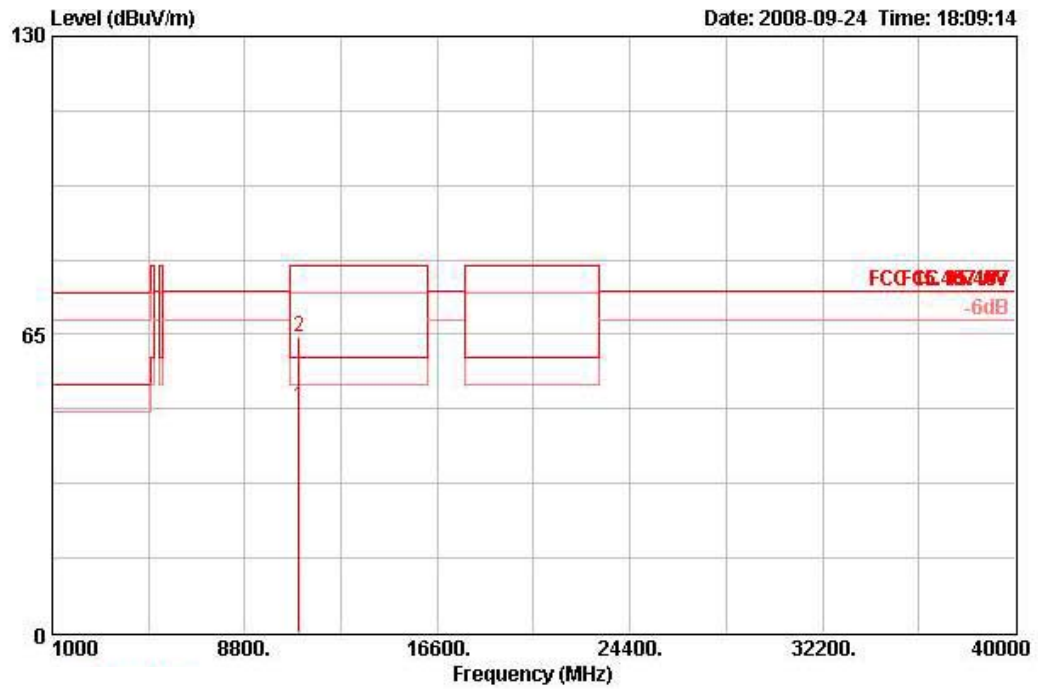
**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10638.920	71.26	-8.74	80.00	61.24	38.37	6.53	34.88	PEAK	125	97	VERTICAL
2	10641.590	57.81	-2.19	60.00	47.79	38.37	6.53	34.88	AVERAGE	125	97	VERTICAL

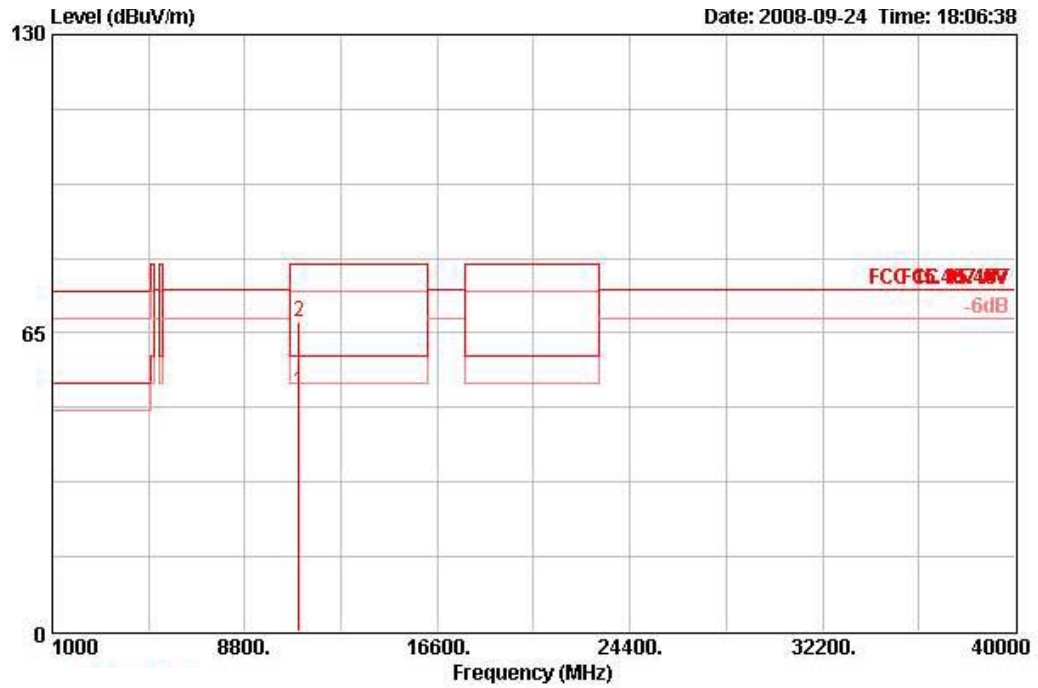
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	Draft n MCS8 20MHz Ch 100 Ant. A + Ant. C

**Horizontal**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11001.410	49.23	-10.77	60.00	39.04	38.32	6.63	34.76	AVERAGE	134	138	HORIZONTAL
2	11001.650	64.46	-15.54	80.00	54.28	38.32	6.63	34.76	PEAK	134	138	HORIZONTAL

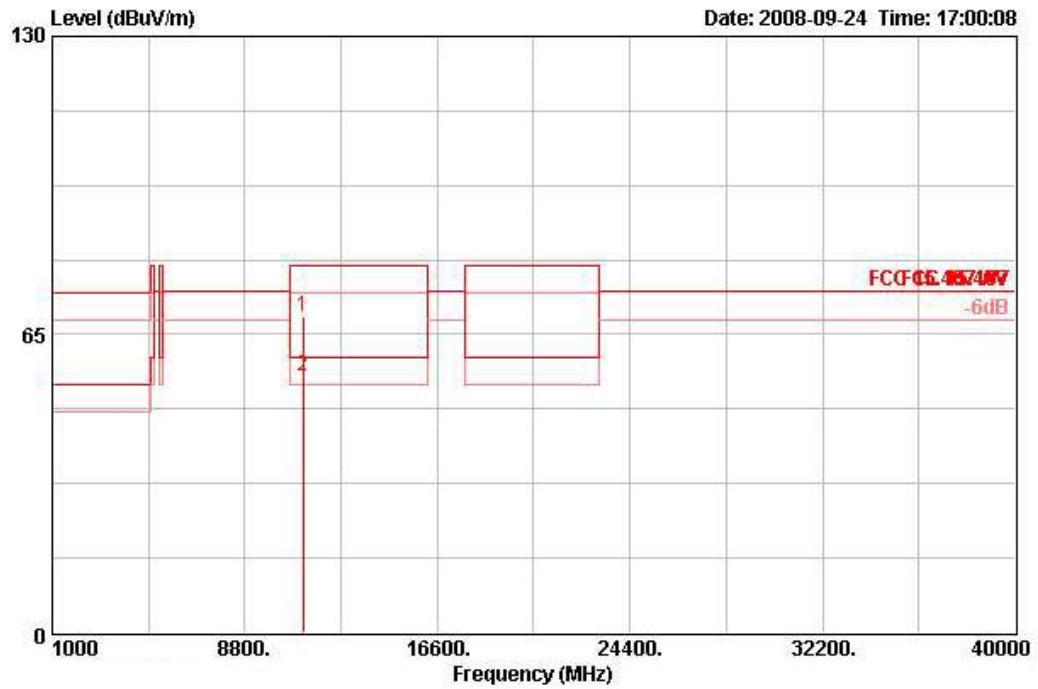
**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10997.500	52.10	-7.90	60.00	41.93	38.30	6.63	34.76	AVERAGE	117	34	VERTICAL
2	11001.410	67.41	-12.59	80.00	57.23	38.30	6.63	34.76	PEAK	117	34	VERTICAL

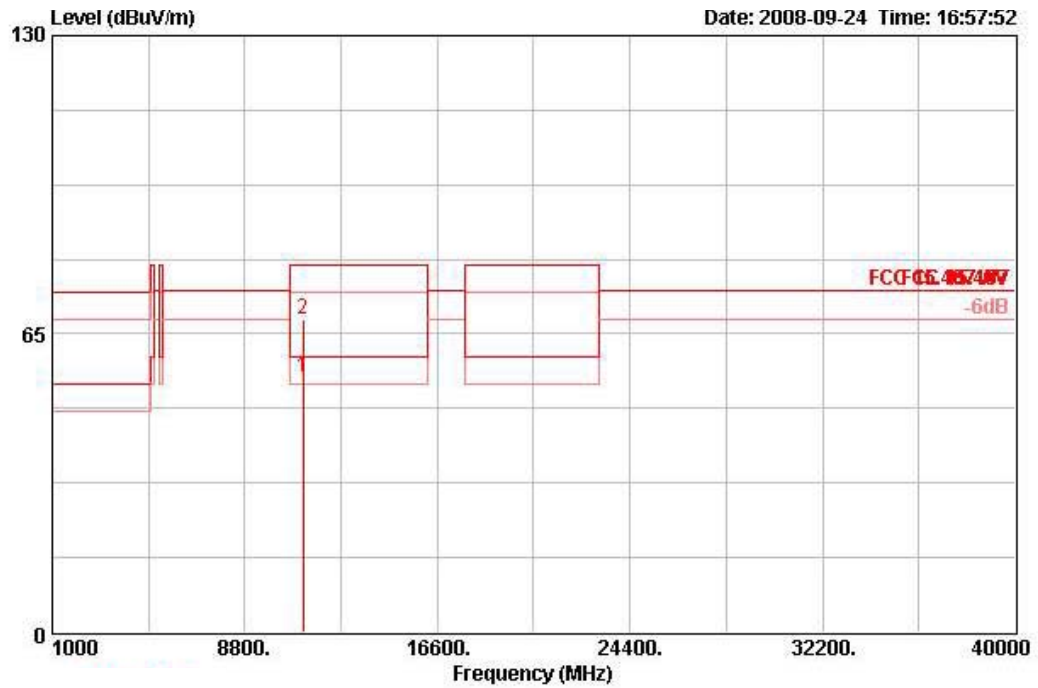
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	Draft n MCS8 20MHz Ch 116 Ant. A + Ant. C

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11158.780	69.03	-10.97	80.00	58.75	38.47	6.65	34.83	PEAK	136	139	HORIZONTAL
2	11160.840	55.87	-4.13	60.00	45.59	38.47	6.65	34.83	AVERAGE	136	139	HORIZONTAL

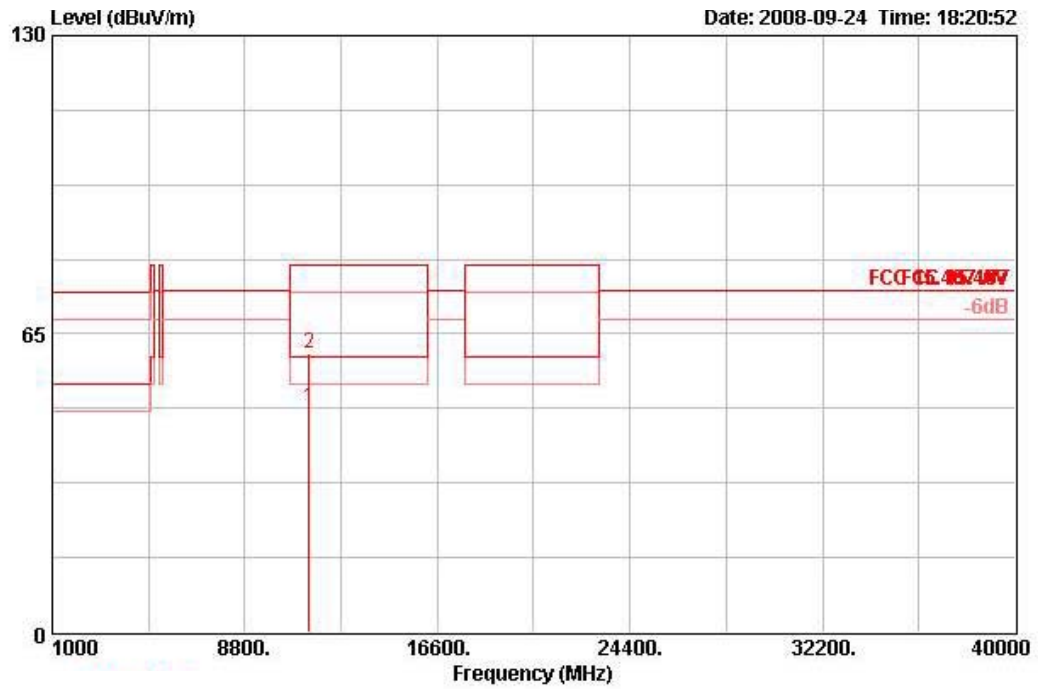
**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11160.520	55.39	-4.61	60.00	45.11	38.47	6.65	34.83	AVERAGE	122	159	VERTICAL
2	11160.840	68.29	-11.71	80.00	58.00	38.47	6.65	34.83	PEAK	122	159	VERTICAL

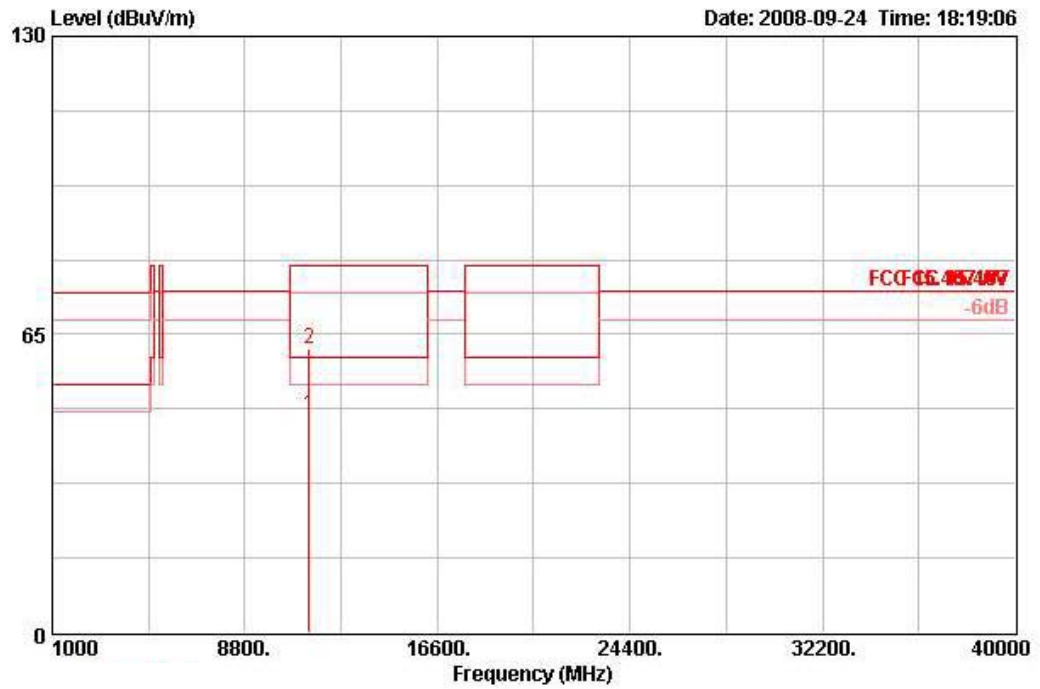
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	Draft n MCS8 20MHz Ch 140 Ant. A + Ant. C

**Horizontal**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Table Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11399.690	48.73	-11.27	60.00	38.31	38.70	6.67	34.95	AVERAGE	132	136	HORIZONTAL
2	11400.690	60.64	-19.36	80.00	50.22	38.70	6.67	34.95	PEAK	132	136	HORIZONTAL

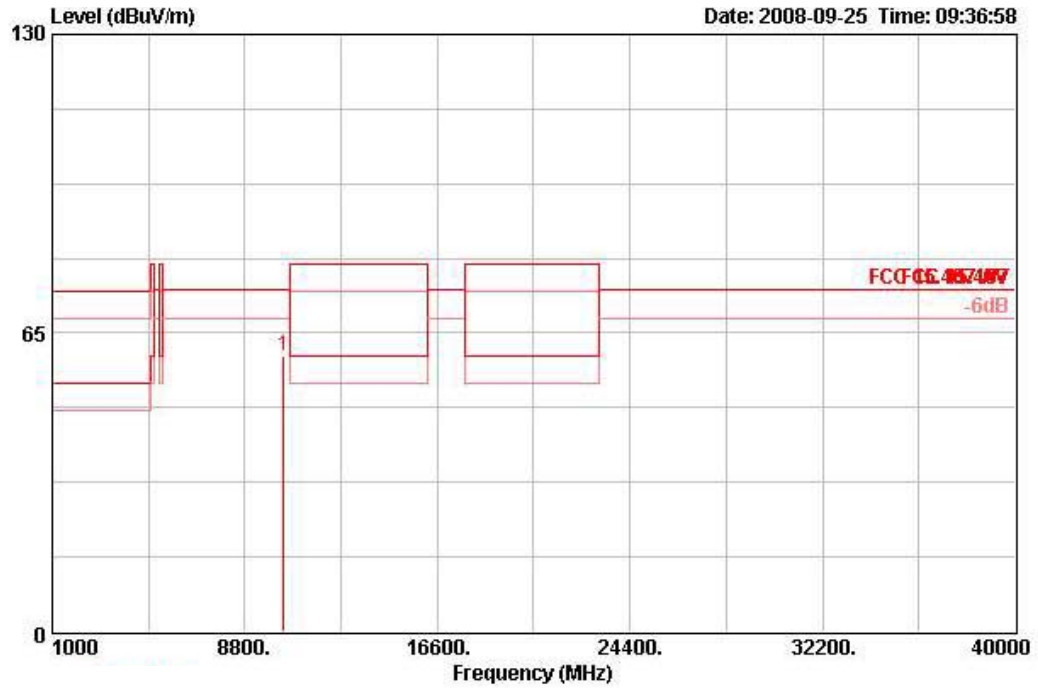
**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11397.500	47.44	-12.56	60.00	37.02	38.70	6.67	34.95	AVERAGE	117	99	VERTICAL
2	11399.690	61.82	-18.18	80.00	51.40	38.70	6.67	34.95	PEAK	117	99	VERTICAL

<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 40MHz Ch 38 Ant. A + Ant. C

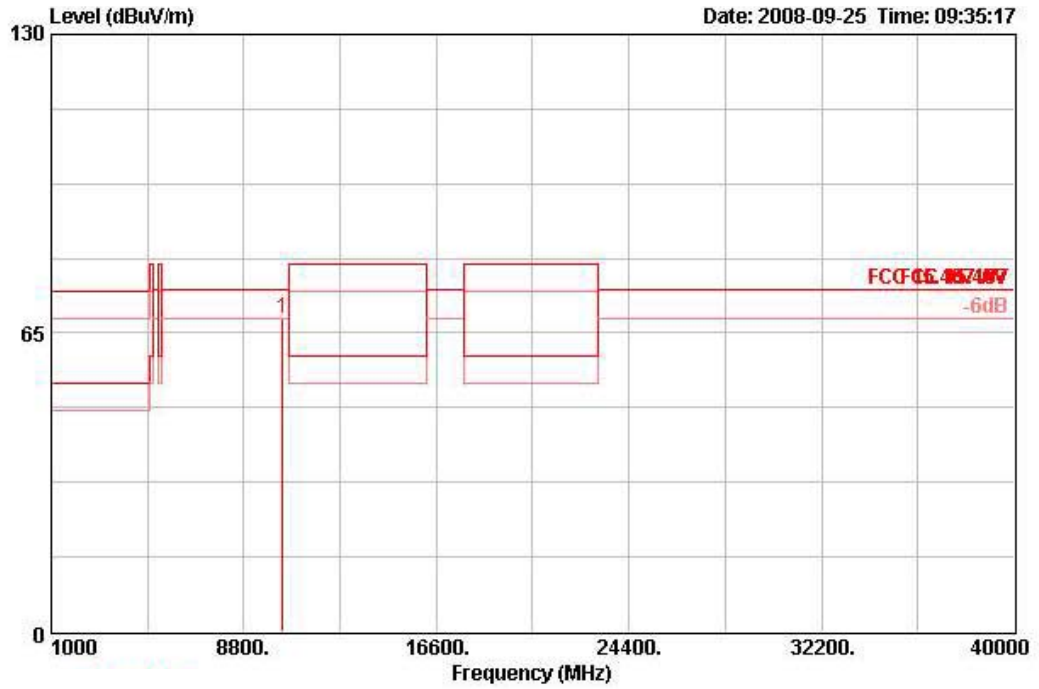
**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10379.100	59.94	-14.36	74.30	50.28	38.38	6.37	35.09	PEAK	143	140	HORIZONTAL



Vertical

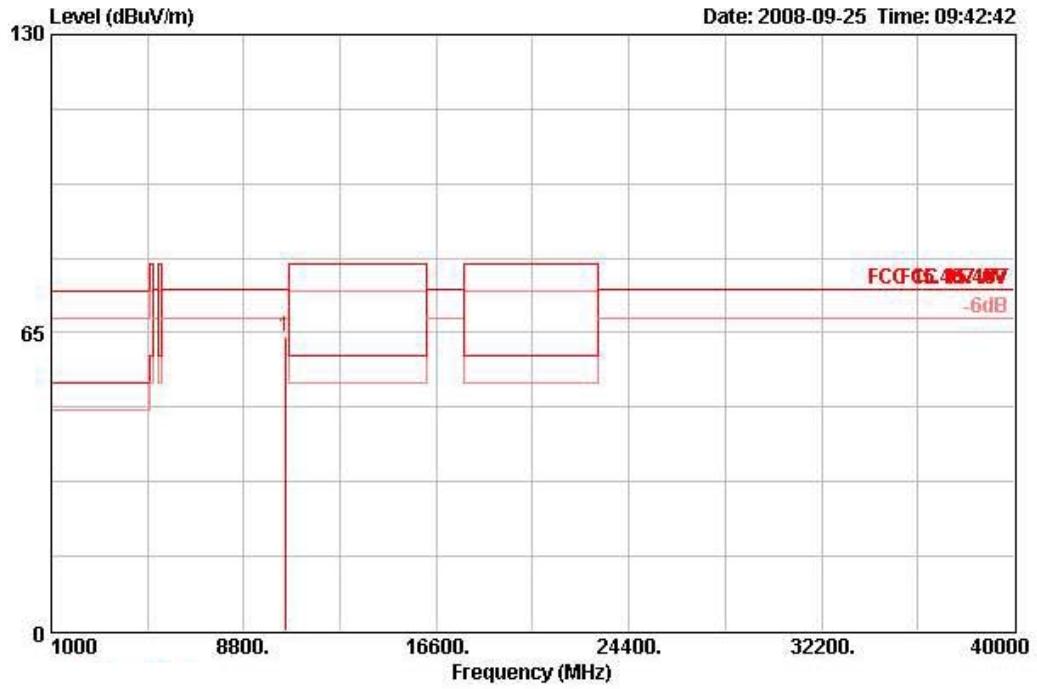


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10379.320	68.00	-6.30	74.30	58.34	38.38	6.37	35.09	PEAK	125	149	VERTICAL



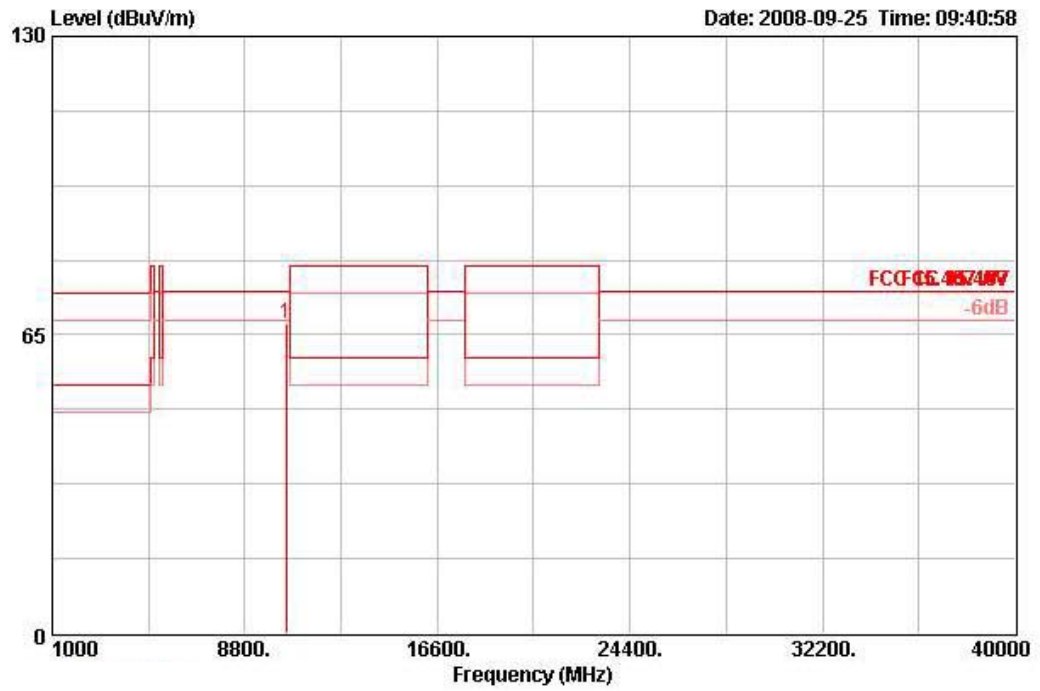
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	Draft n MCS8 40MHz Ch 46 Ant. A + Ant. C

**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10459.820	64.21	-10.09	74.30	54.37	38.39	6.44	34.99	PEAK	136	148	HORIZONTAL

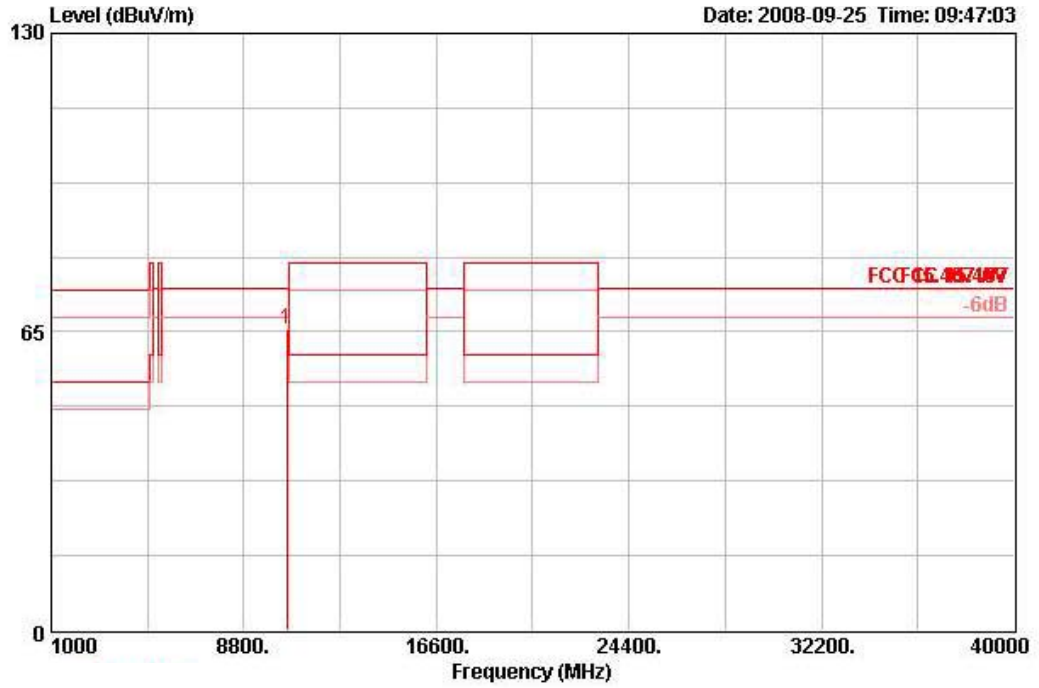
**Vertical**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10461.200	67.30	-7.00	74.30	57.46	38.39	6.44	34.99	PEAK	124	103	VERTICAL

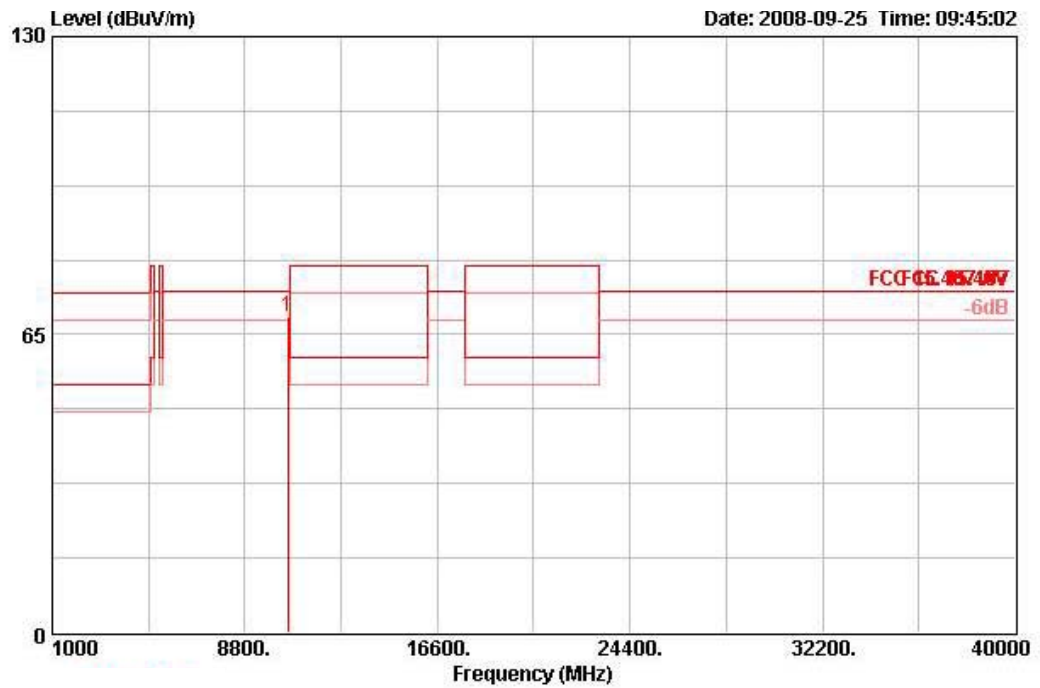
<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 40MHz Ch 54 Ant. A + Ant. C

**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10539.240	65.68	-8.62	74.30	55.71	38.39	6.50	34.92	PEAK	135	140	HORIZONTAL

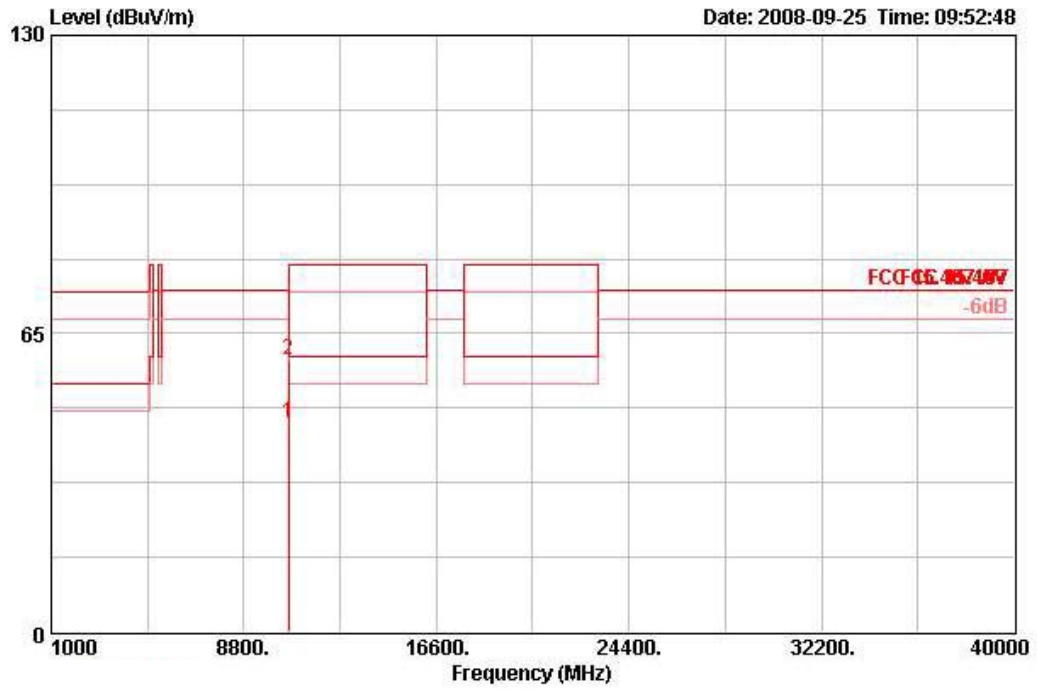
Vertical



	Freq	Level	Over Limit	Limit Line	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10542.240	68.81	-5.49	74.30	58.84	38.39	6.50	34.92	PEAK	125	102	VERTICAL

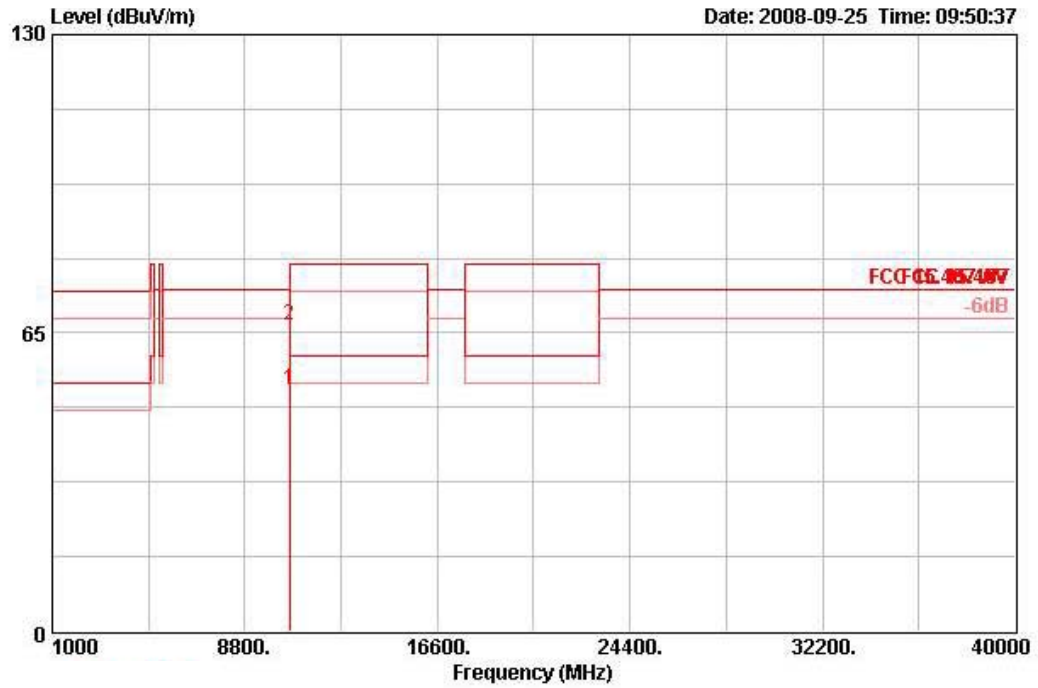
<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 40MHz Ch 62 Ant. A + Ant. C

**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10617.940	45.59	-14.41	60.00	35.59	38.38	6.52	34.89	AVERAGE	130	135	HORIZONTAL
2	10620.150	59.25	-20.75	80.00	49.24	38.38	6.52	34.89	PEAK	130	135	HORIZONTAL

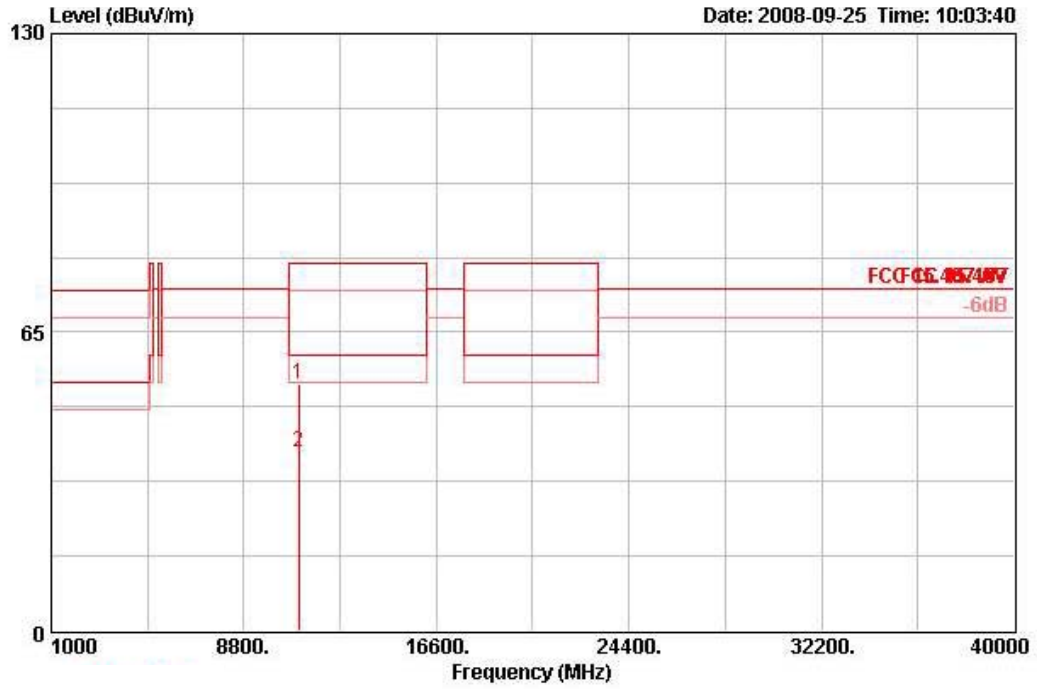
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10617.680	52.41	-7.59	60.00	42.41	38.38	6.52	34.89	AVERAGE	124	83	VERTICAL
2	10620.380	66.77	-13.23	80.00	56.77	38.38	6.52	34.89	PEAK	124	83	VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	Draft n MCS8 40MHz Ch 102 Ant. A + Ant. C

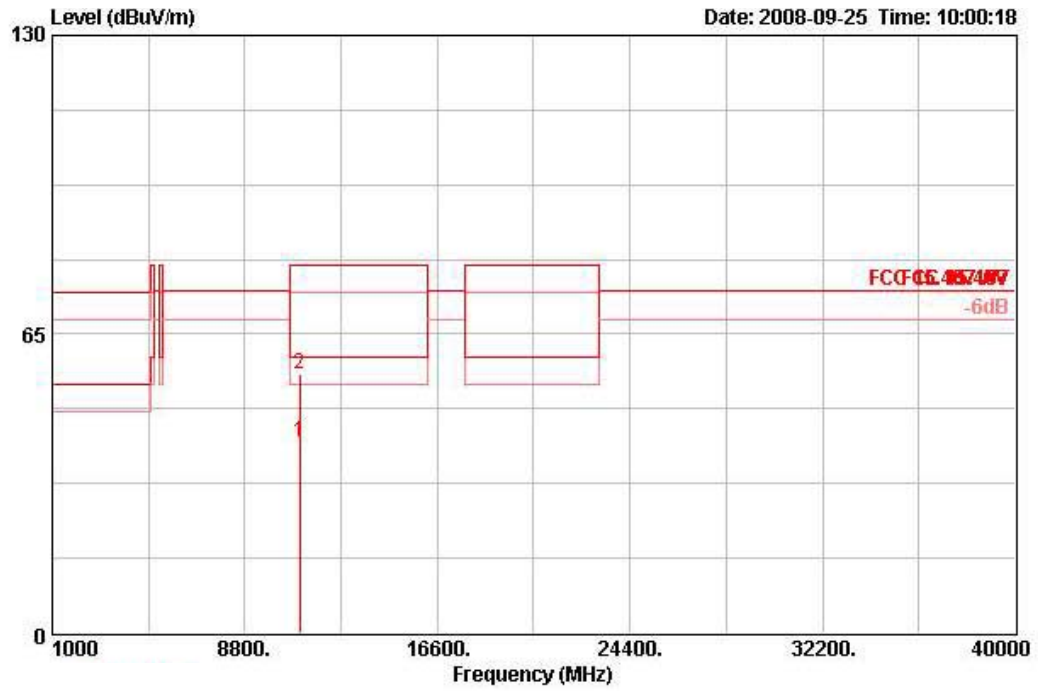
**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11019.430	53.53	-26.47	80.00	43.34	38.33	6.63	34.77	PEAK	130	304	HORIZONTAL
2	11020.090	39.07	-20.93	60.00	28.88	38.33	6.63	34.77	AVERAGE	130	304	HORIZONTAL



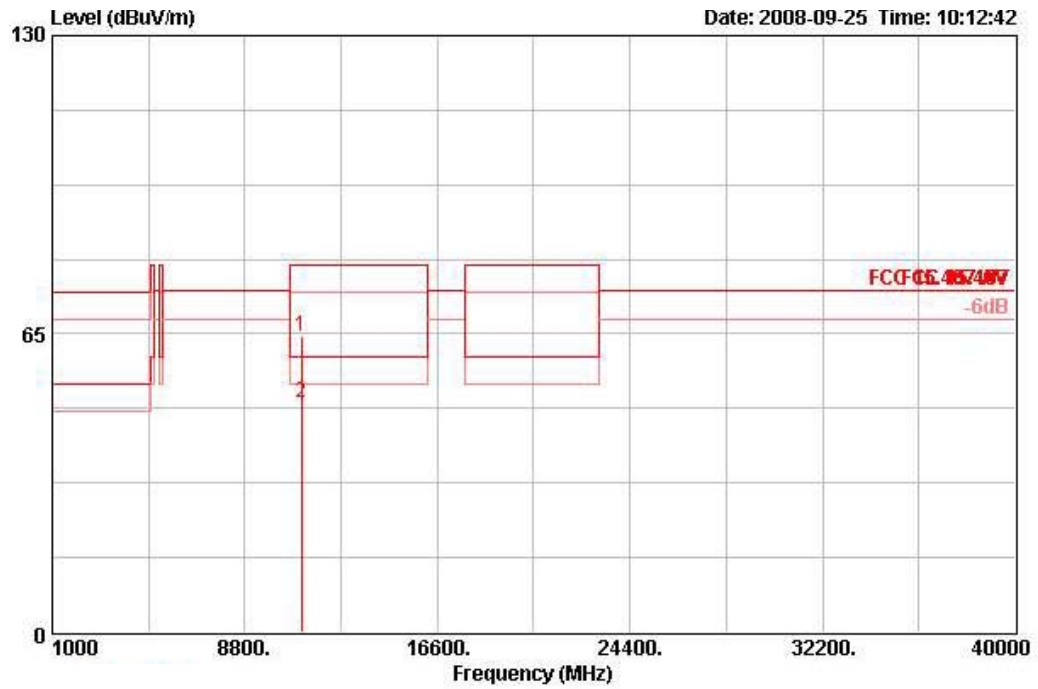
**Vertical**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11017.500	41.42	-18.58	60.00	31.24	38.32	6.63	34.77	AVERAGE	144	216	VERTICAL
2	11019.570	56.19	-23.81	80.00	46.01	38.32	6.63	34.77	PEAK	144	216	VERTICAL

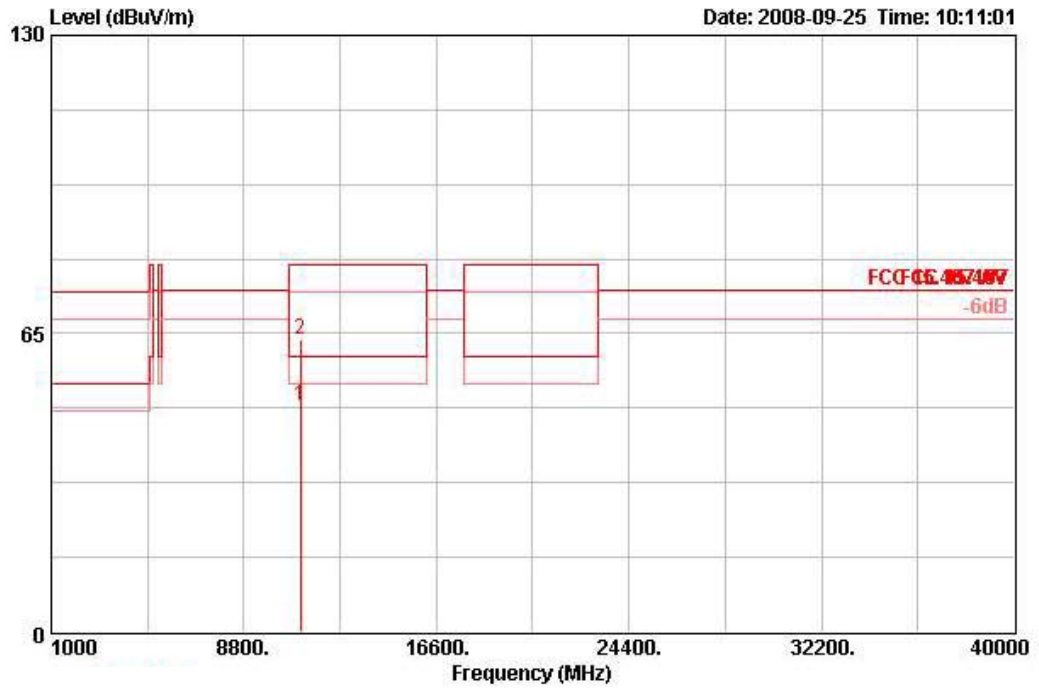
<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 40MHz Ch 110 Ant. A + Ant. C

**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Table Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11099.520	64.29	-15.71	80.00	54.05	38.40	6.64	34.80	PEAK	136	131	HORIZONTAL
2	11102.360	50.02	-9.98	60.00	39.79	38.40	6.64	34.80	AVERAGE	136	131	HORIZONTAL

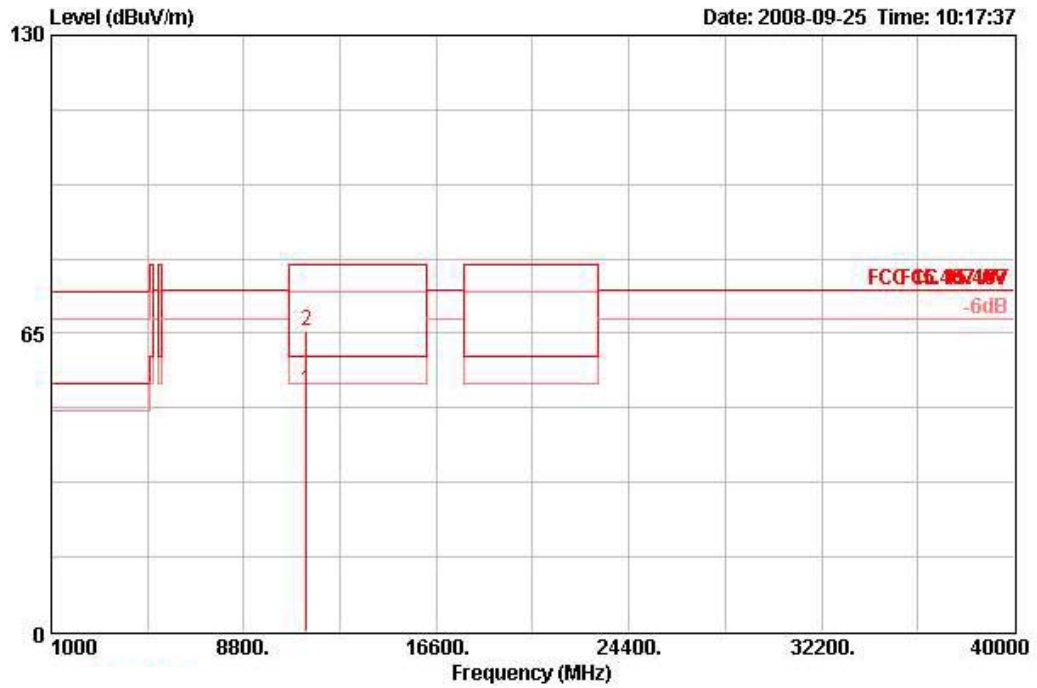
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos	Table Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	11098.580	49.36	-10.64	60.00	39.12	38.40	6.64	34.80	AVERAGE	122	160 VERTICAL
2	11099.300	63.82	-16.18	80.00	53.58	38.40	6.64	34.80	PEAK	122	160 VERTICAL

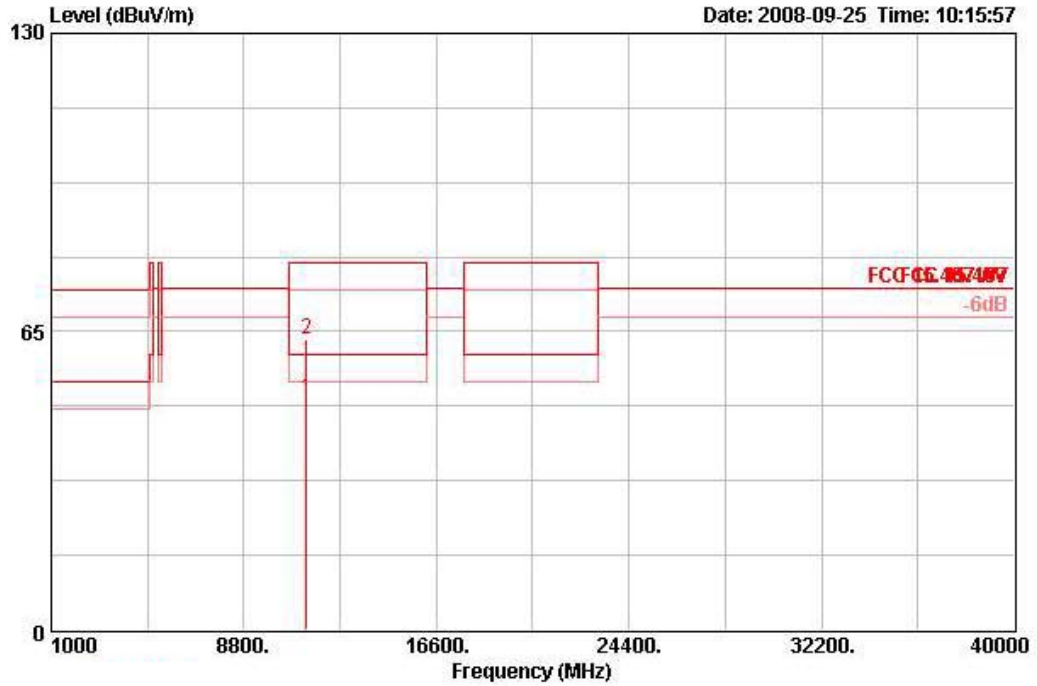
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	Draft n MCS8 40MHz Ch 134 Ant. A + Ant. C

**Horizontal**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11337.500	52.49	-7.51	60.00	42.10	38.63	6.66	34.91	AVERAGE	135	136	HORIZONTAL
2	11339.480	65.60	-14.40	80.00	55.21	38.63	6.66	34.91	PEAK	135	136	HORIZONTAL

**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11337.500	50.49	-9.51	60.00	40.10	38.63	6.66	34.91	AVERAGE	119	102	VERTICAL
2	11339.740	63.40	-16.60	80.00	53.01	38.63	6.66	34.91	PEAK	119	102	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.

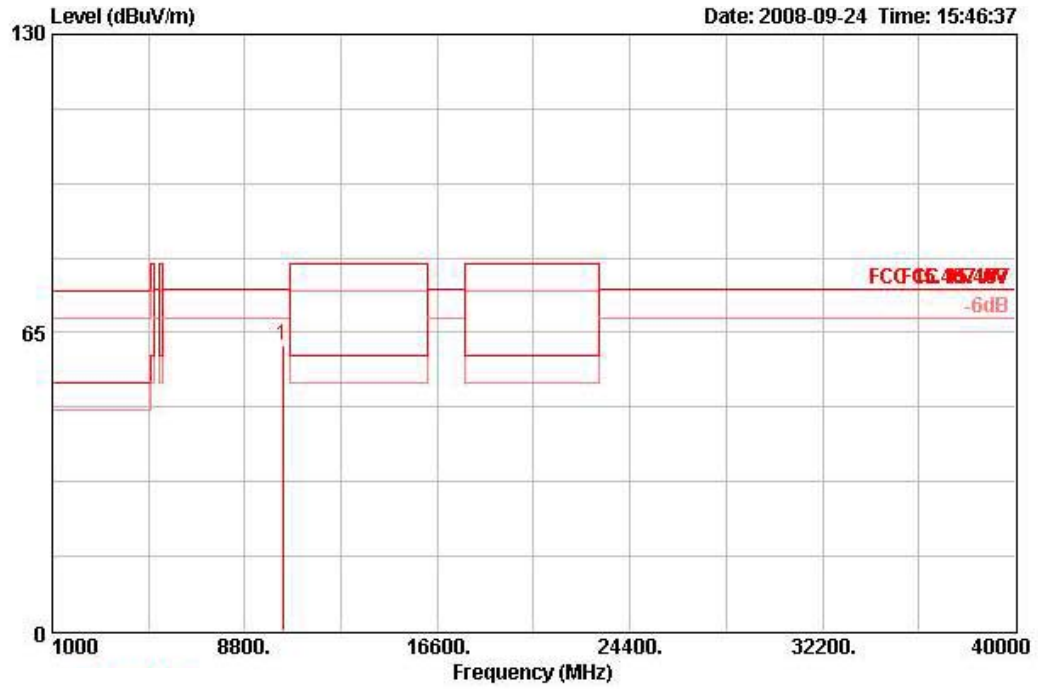
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

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

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

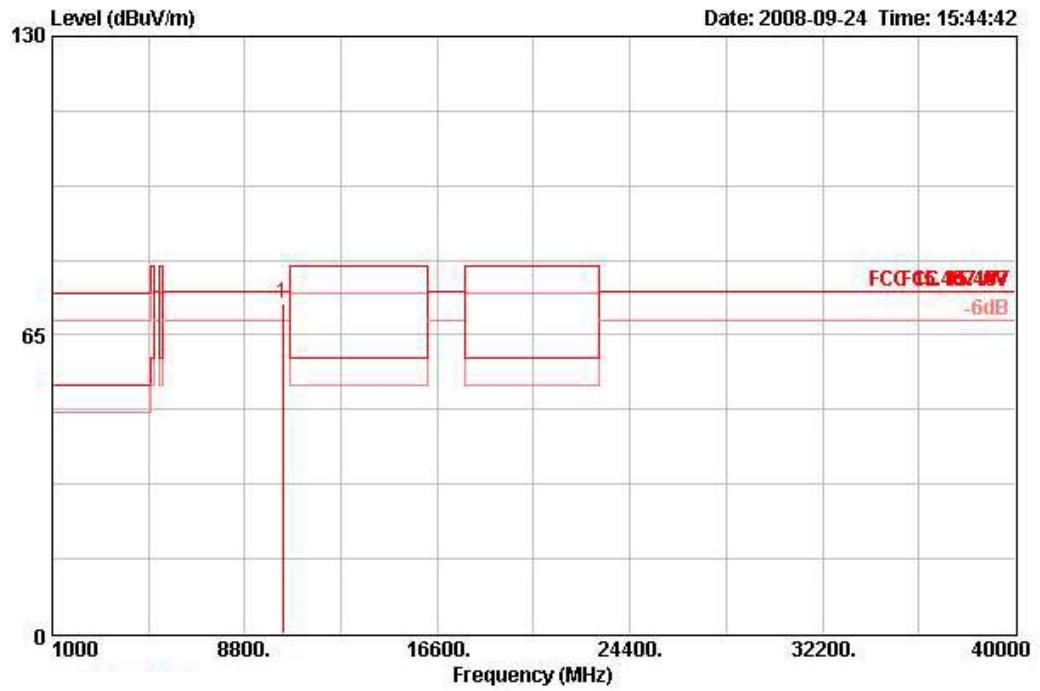
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 36 Ant. A

**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10349.790	62.18	-12.12	74.30	52.58	38.37	6.34	35.12	PEAK	142	117	HORIZONTAL

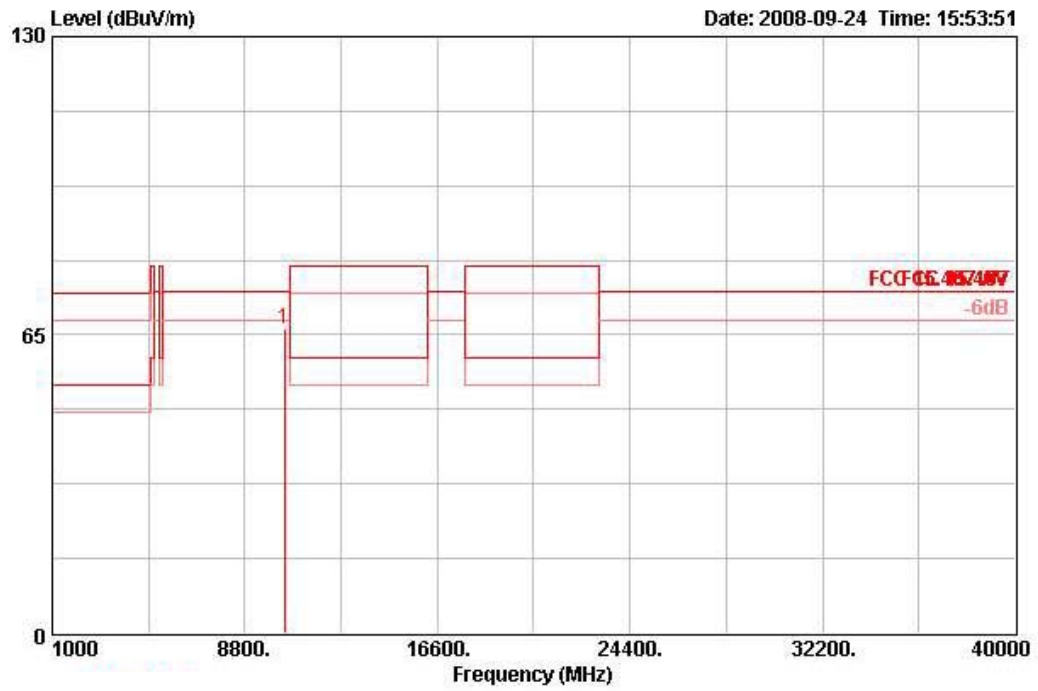
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10349.860	72.03	-2.27	74.30	62.43	38.37	6.34	35.12	PEAK	132	141	VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 40 Ant. A

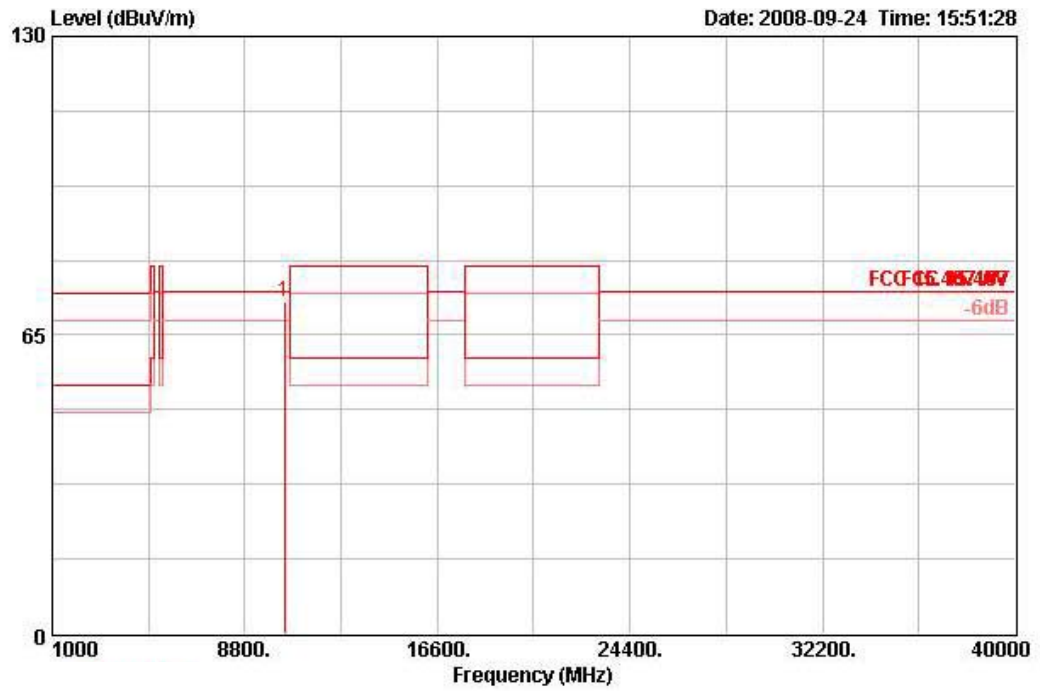
**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10400.990	66.39	-7.91	74.30	56.67	38.38	6.39	35.05	PEAK	136	151	HORIZONTAL



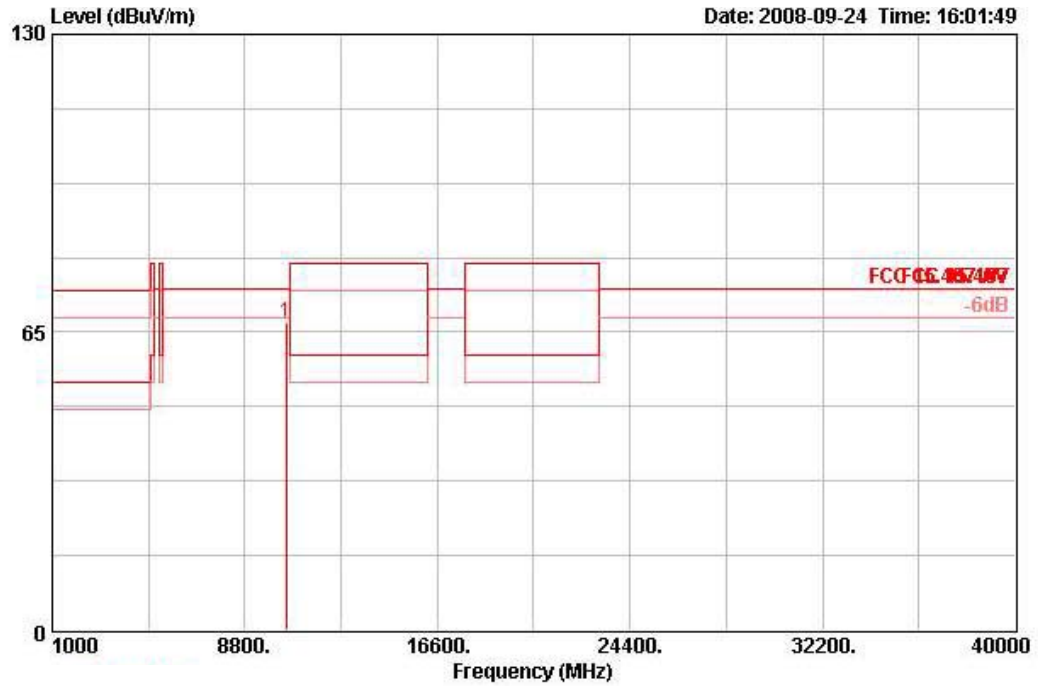
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10402.150	72.38	-1.92	74.30	62.66	38.38	6.39	35.05	PEAK	135	140	VERTICAL

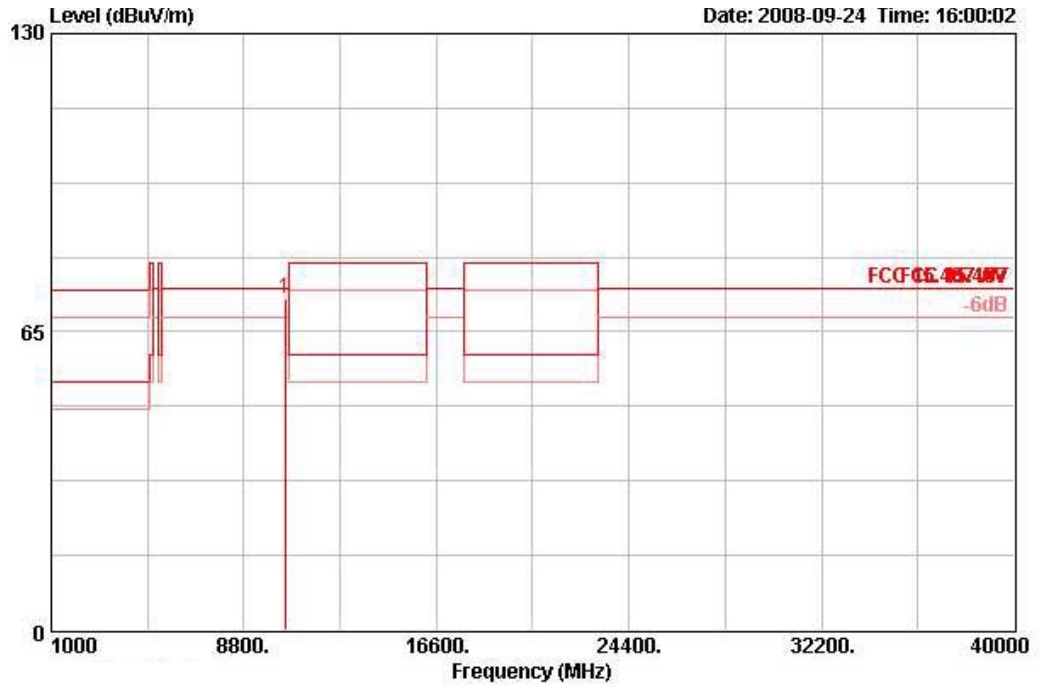
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 48 Ant. A

**Horizontal**



	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
1	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
	dB	dBUV/m	dBuV	dB	dB		cm	deg
1	-7.37	74.30	57.04	38.39	6.46	34.96 PEAK	126	151 HORIZONTAL

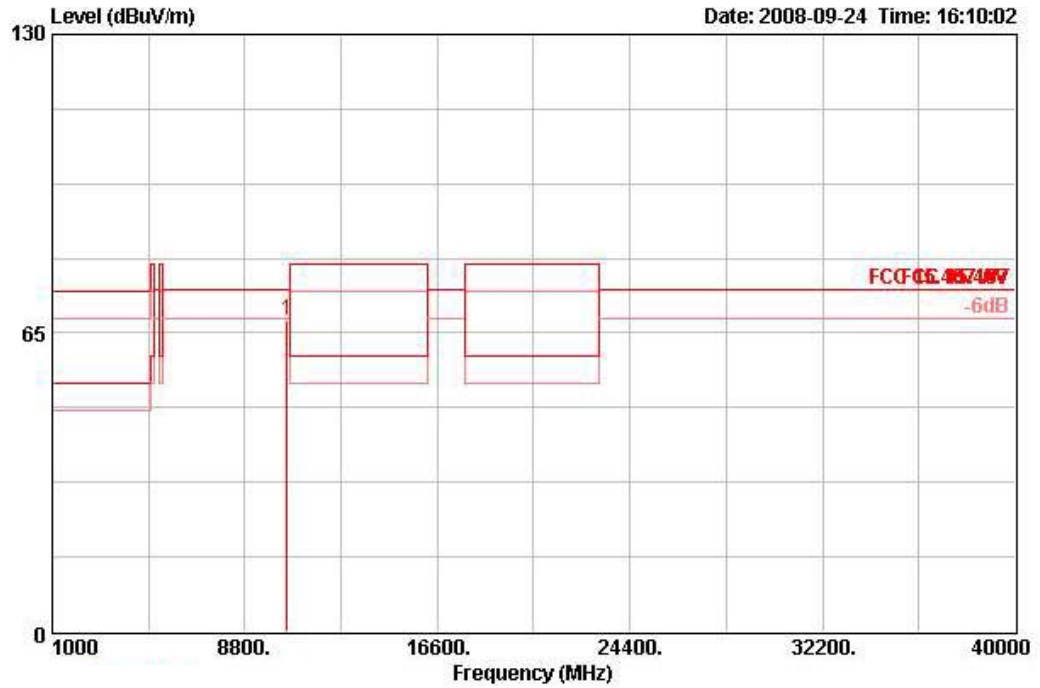
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10481.390	72.14	-2.16	74.30	62.24	38.40	6.46	34.96	PEAK	120	143	VERTICAL

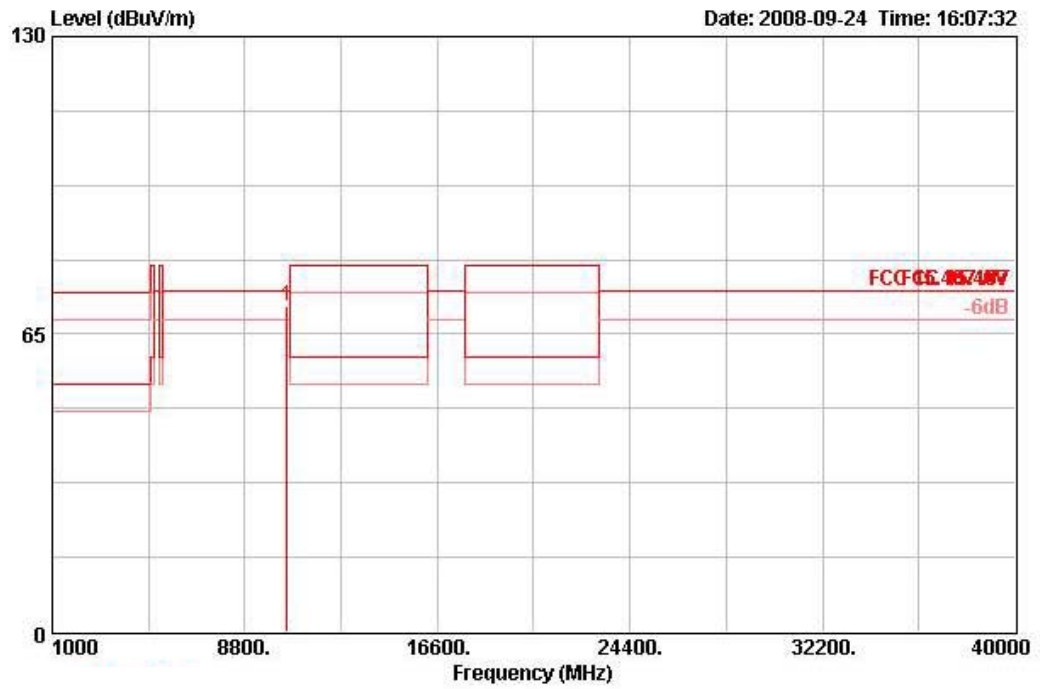
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 52 Ant. A

**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10518.820	67.78	-6.52	74.30	57.83	38.40	6.48	34.93	PEAK	128	140	HORIZONTAL

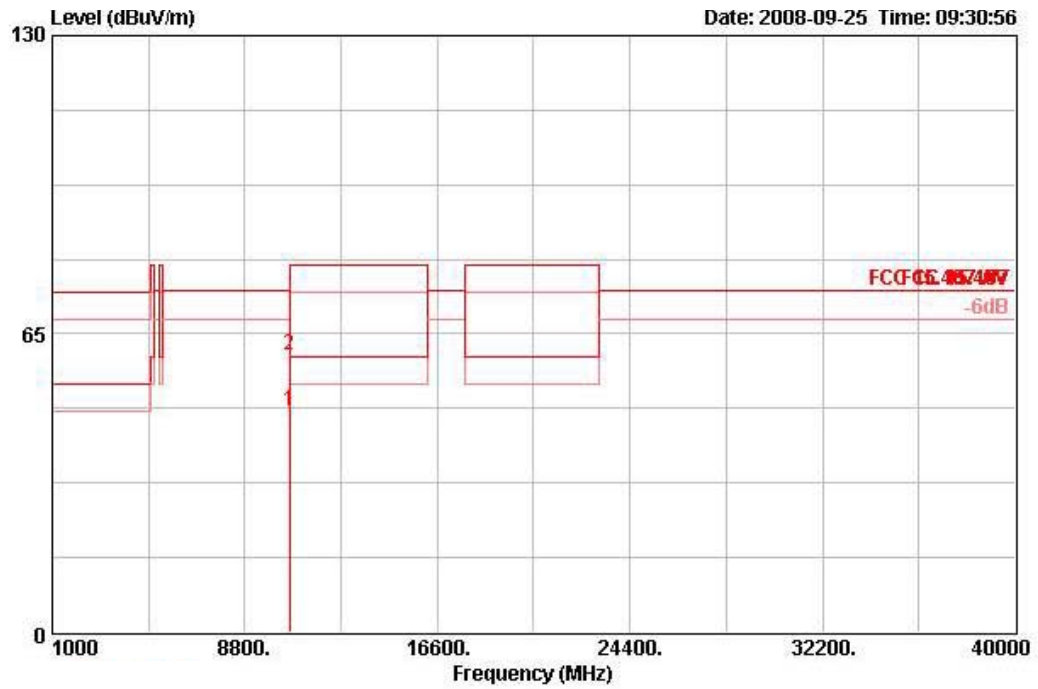
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10522.310	71.18	-3.12	74.30	61.23	38.39	6.48	34.93	PEAK	123	142	VERTICAL

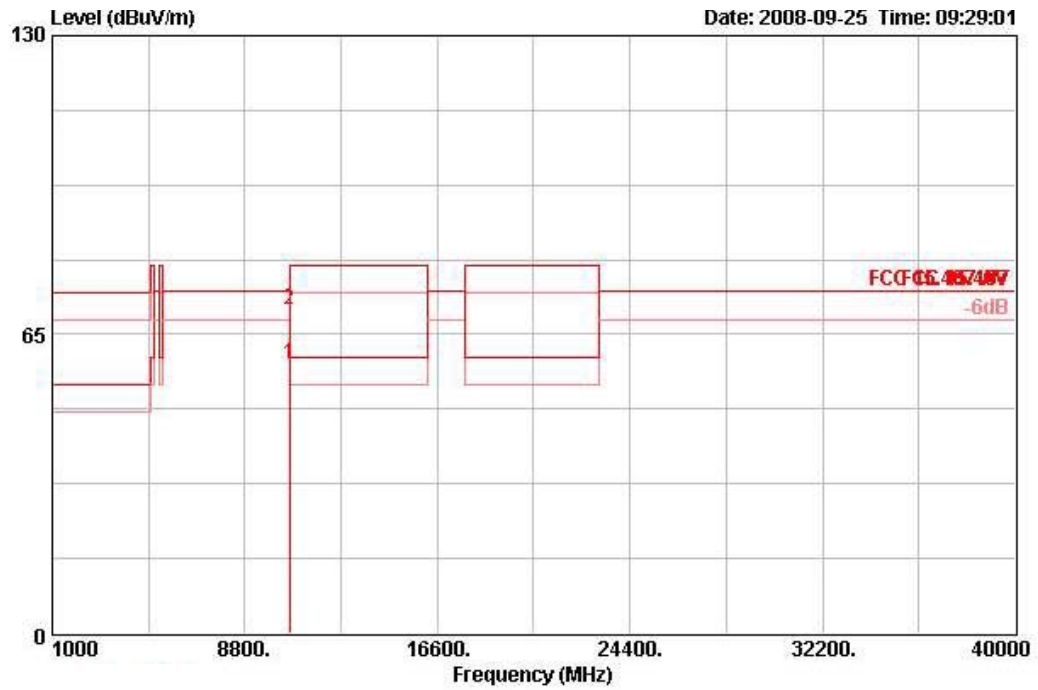
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 60 Ant. A

**Horizontal**



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Table Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10600.890	48.25	-11.75	60.00	38.26	38.38	6.51	34.90	AVERAGE	134	118	HORIZONTAL
2	10600.890	60.53	-19.47	80.00	50.54	38.38	6.51	34.90	PEAK	134	118	HORIZONTAL

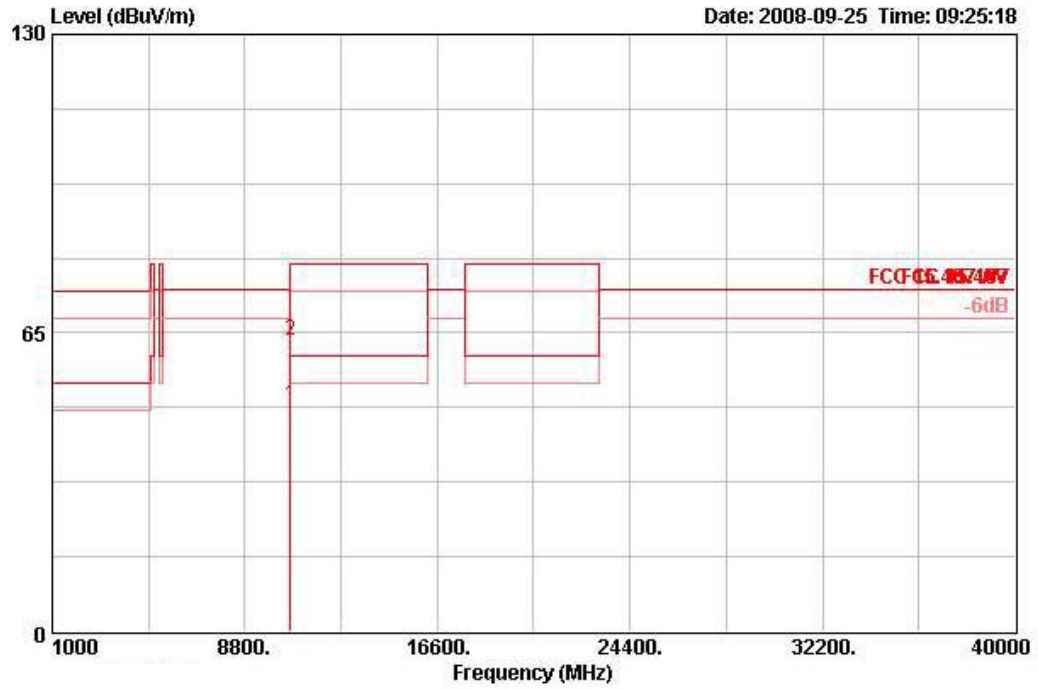
**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10600.820	58.65	-1.35	60.00	48.66	38.38	6.51	34.90	AVERAGE	124	98	VERTICAL
2	10600.820	70.44	-9.56	80.00	60.44	38.38	6.51	34.90	PEAK	124	98	VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 64 Ant. A

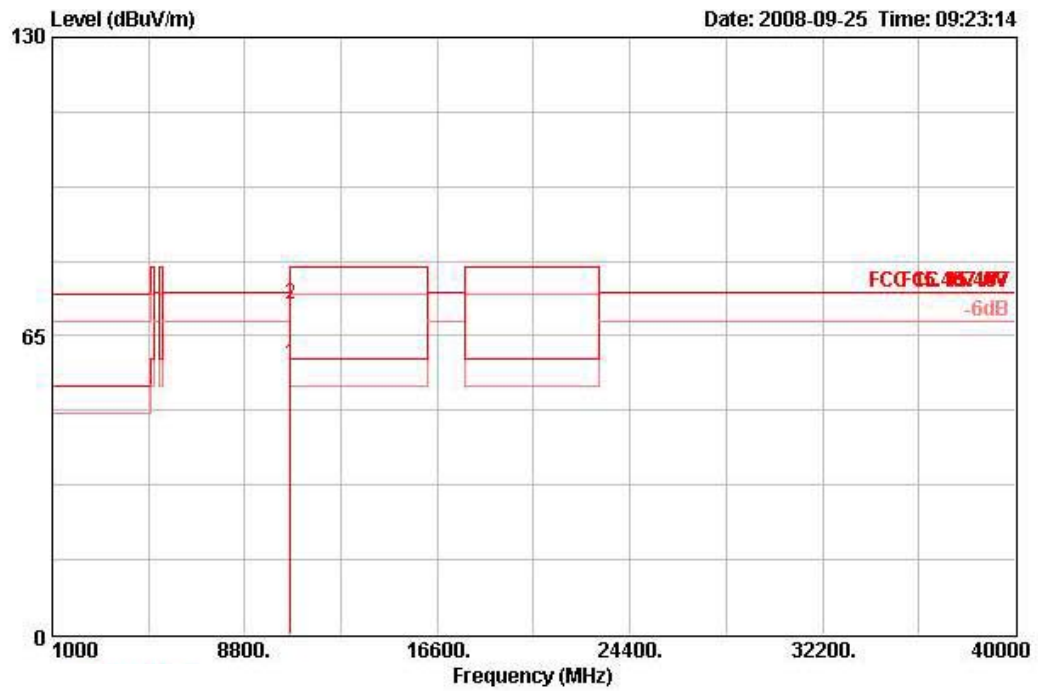
Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Table Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10640.600	49.29	-10.71	60.00	39.28	38.37	6.53	34.88	AVERAGE	117	114	HORIZONTAL
2	10641.400	63.50	-16.50	80.00	53.48	38.37	6.53	34.88	PEAK	117	114	HORIZONTAL



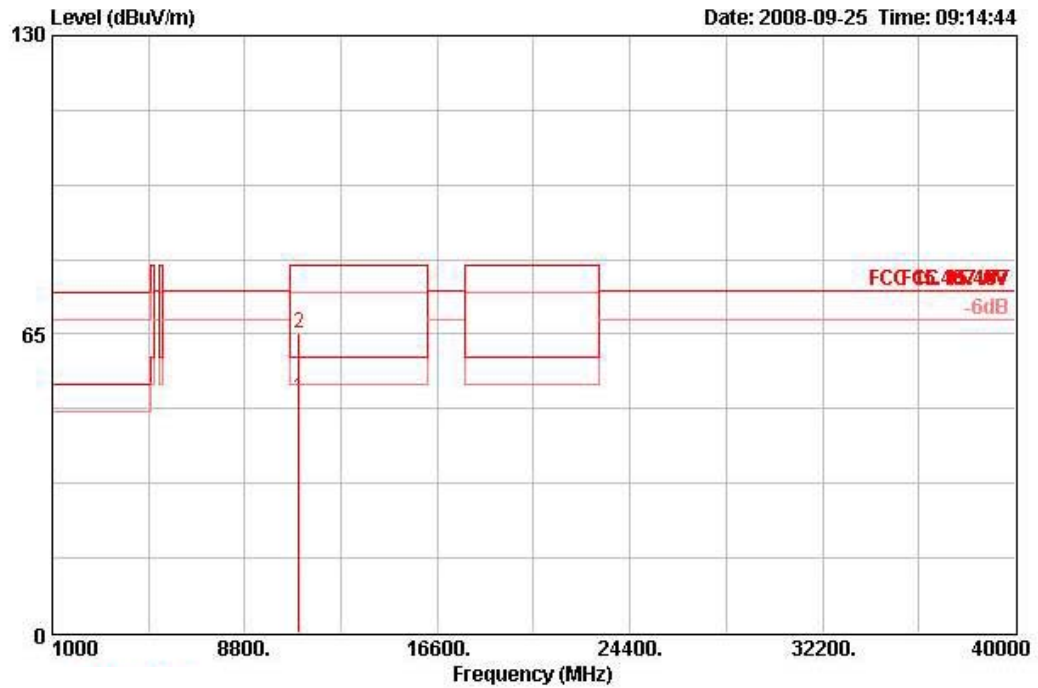
**Vertical**



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	10640.670	58.71	-1.29	60.00	48.70	38.37	6.53	34.88	AVERAGE	125	101 VERTICAL
2	10641.460	72.02	-7.98	80.00	62.00	38.37	6.53	34.88	PEAK	125	101 VERTICAL

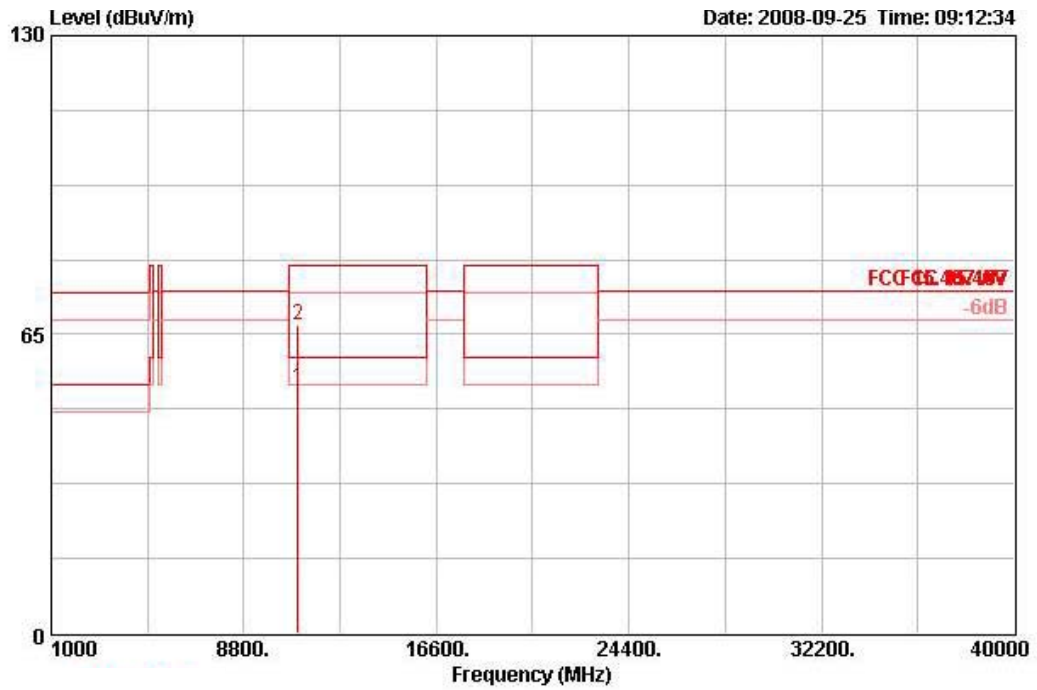
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 100 Ant. A

**Horizontal**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11001.320	51.18	-8.82	60.00	40.99	38.32	6.63	34.76	AVERAGE	136	130	HORIZONTAL
2	11001.530	65.31	-14.69	80.00	55.12	38.32	6.63	34.76	PEAK	136	130	HORIZONTAL

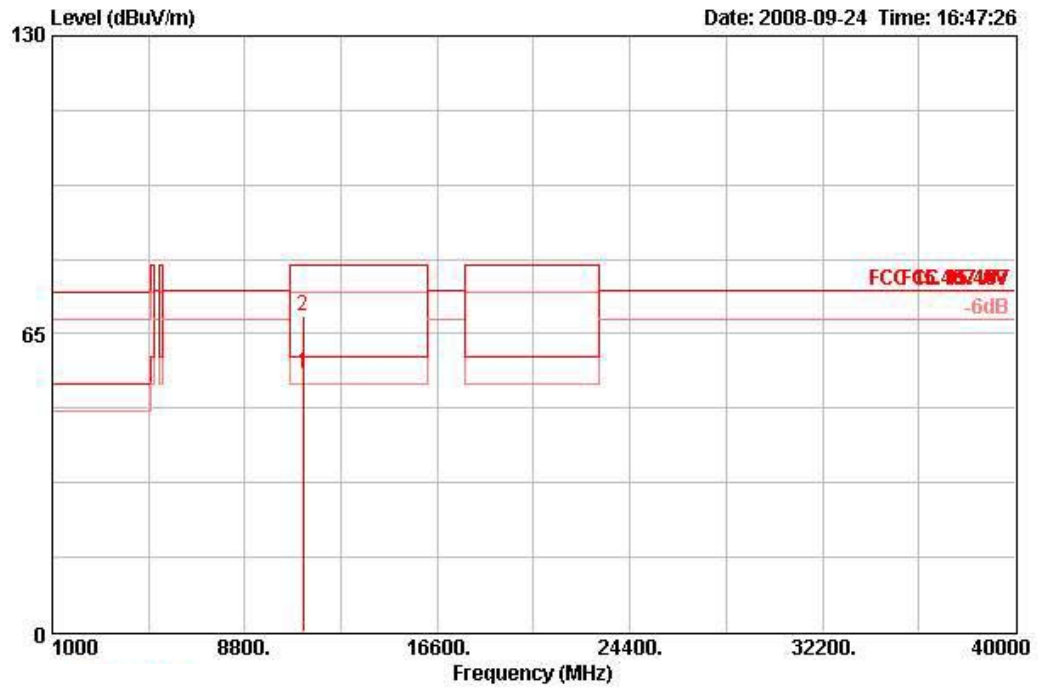
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11000.850	53.34	-6.66	60.00	43.17	38.30	6.63	34.76	AVERAGE	120	157	VERTICAL
2	11001.320	67.02	-12.98	80.00	56.85	38.30	6.63	34.76	PEAK	120	157	VERTICAL

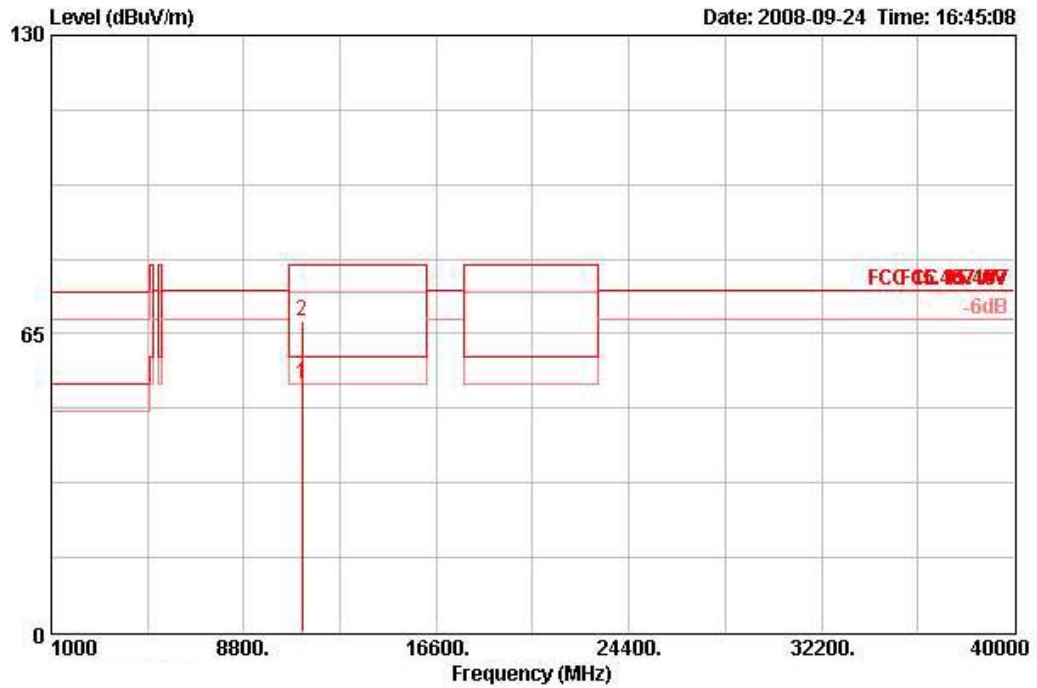
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 116 Ant. A

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11160.590	56.42	-3.58	60.00	46.14	38.47	6.65	34.83	AVERAGE	121	133	HORIZONTAL
2	11162.320	68.99	-11.01	80.00	58.70	38.47	6.65	34.83	PEAK	121	133	HORIZONTAL

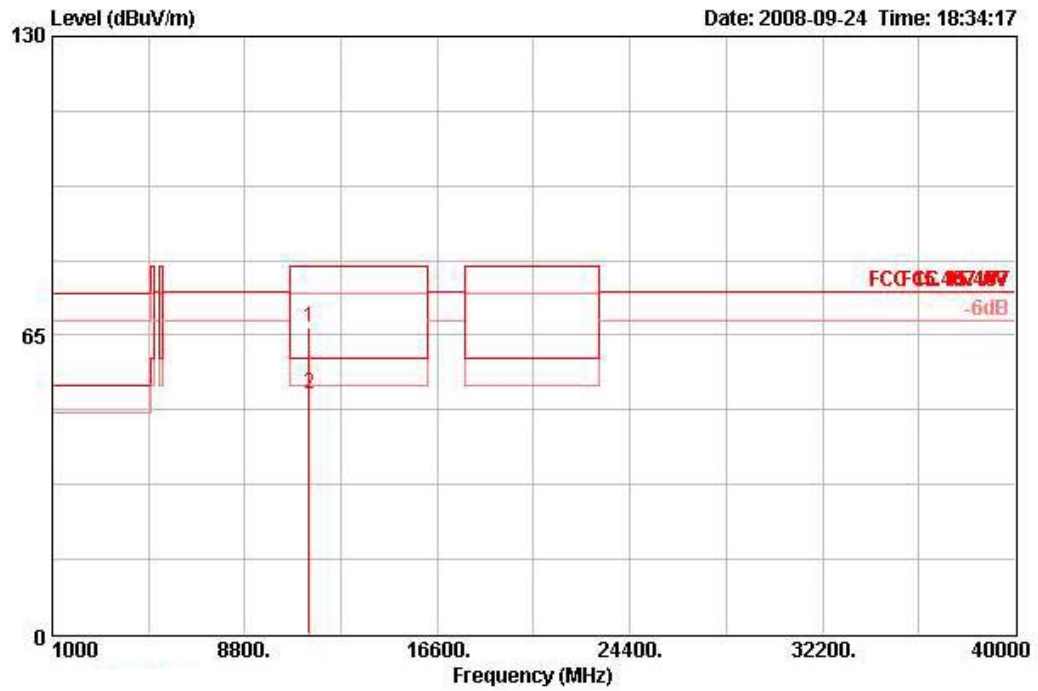
**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11160.010	54.21	-5.79	60.00	43.92	38.47	6.65	34.83	AVERAGE	118	159	VERTICAL
2	11162.280	67.90	-12.10	80.00	57.61	38.47	6.65	34.83	PEAK	118	159	VERTICAL

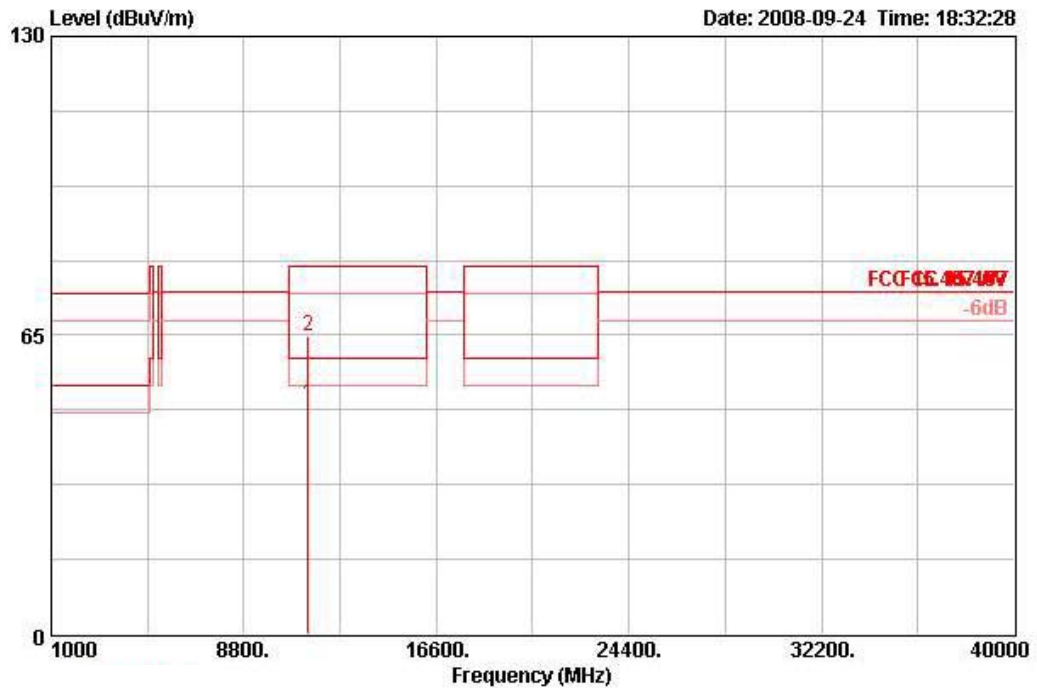
Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 140 Ant. A

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11401.930	66.68	-13.32	80.00	56.25	38.70	6.67	34.95	PEAK	138	135	HORIZONTAL
2	11402.130	52.30	-7.70	60.00	41.87	38.70	6.67	34.95	AVERAGE	138	135	HORIZONTAL

**Vertical**



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11397.500	50.00	-10.00	60.00	39.57	38.70	6.67	34.95	AVERAGE	117	101	VERTICAL
2	11402.130	64.81	-15.19	80.00	54.39	38.70	6.67	34.95	PEAK	117	101	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)	1MHz / 1MHz 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

<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 20MHz Ch 36, 40 Ant. A + Ant. C
<b>Test Date</b>	Sep. 24, 2008		

##### Channel 36

	Freg MHz	Level dBuV/m	Over	Limit	ReadAntenna		Cable	Preamp	Remark	Ant	Table	
			Limit	Line	Level	Factor	Loss	Factor		Pos	Pos	Pol/Phase
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5147.000	72.67	-7.33	80.00	34.89	33.67	4.11	0.00	PEAK	140	119	VERTICAL
2 ☺	5150.000	57.97	-2.03	60.00	20.20	33.67	4.11	0.00	AVERAGE	140	119	VERTICAL
3 ☺	5173.400	102.32			64.50	33.70	4.12	0.00	AVERAGE	140	119	VERTICAL
4 ☺	5174.600	112.74			74.92	33.70	4.12	0.00	PEAK	140	119	VERTICAL

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

##### Channel 40

	Freg MHz	Level dBuV/m	Over	Limit	ReadAntenna		Cable	Preamp	Remark	Ant	Table	
			Limit	Line	Level	Factor	Loss	Factor		Pos	Pos	Pol/Phase
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5150.000	55.56	-4.44	60.00	17.79	33.67	4.11	0.00	AVERAGE	117	97	VERTICAL
2	5150.000	67.55	-12.45	80.00	29.77	33.67	4.11	0.00	PEAK	117	97	VERTICAL
3 ☺	5206.400	113.66			75.77	33.76	4.13	0.00	PEAK	117	97	VERTICAL
4 ☺	5207.400	101.99			64.09	33.76	4.13	0.00	AVERAGE	117	97	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.



<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 20MHz Ch 60, 64 Ant. A + Ant. C
<b>Test Date</b>	Sep. 24, 2008		

**Channel 60**

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5304.400	108.15			70.02	33.94	4.19	0.00	AVERAGE	127	256	VERTICAL
2 @	5308.000	120.03			81.90	33.94	4.19	0.00	PEAK	127	256	VERTICAL
3 @	5352.800	59.20	-0.80	60.00	20.95	34.03	4.22	0.00	AVERAGE	127	256	VERTICAL
4	5356.800	71.71	-8.29	80.00	33.47	34.03	4.22	0.00	PEAK	127	256	VERTICAL

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

**Channel 64**

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5313.400	118.34			80.21	33.94	4.19	0.00	PEAK	127	257	VERTICAL
2 @	5315.600	107.23			69.06	33.97	4.20	0.00	AVERAGE	127	257	VERTICAL
3 @	5350.000	59.51	-0.49	60.00	21.26	34.03	4.22	0.00	AVERAGE	127	257	VERTICAL
4	5350.800	72.92	-7.08	80.00	34.67	34.03	4.22	0.00	PEAK	127	257	VERTICAL

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

<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 20MHz Ch 100, 120, 140 Ant. A + Ant. C
<b>Test Date</b>	Sep. 24, 2008		

**Channel 100**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5460.000	59.69	-0.31	60.00	21.20	34.21	4.28	0.00	AVERAGE	108	271	VERTICAL
2	5460.000	72.97	-7.03	80.00	34.48	34.21	4.28	0.00	PEAK	108	271	VERTICAL
3 @	5470.000	72.84	-1.46	74.30	34.31	34.24	4.29	0.00	PEAK	108	271	VERTICAL
4 @	5504.400	101.73			63.15	34.28	4.30	0.00	AVERAGE	108	271	VERTICAL
5 @	5506.200	113.31			74.73	34.28	4.30	0.00	PEAK	108	271	VERTICAL

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

**Channel 140**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5694.000	104.69			65.98	34.34	4.37	0.00	AVERAGE	129	256	VERTICAL
2 @	5694.800	116.62			77.91	34.34	4.37	0.00	PEAK	129	256	VERTICAL
3 @	5725.400	73.59	-0.71	74.30	34.85	34.34	4.39	0.00	PEAK	129	256	VERTICAL

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



<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 40MHz Ch 38, 46 Ant. A + Ant. C
<b>Test Date</b>	Sep. 24, 2008		

**Channel 38**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5148.400	71.23	-8.77	80.00	33.45	33.67	4.11	0.00	PEAK	114	271	VERTICAL
2	5150.000	58.57	-1.43	60.00	20.80	33.67	4.11	0.00	AVERAGE	114	271	VERTICAL
3	5184.000	110.16			72.31	33.73	4.12	0.00	PEAK	114	271	VERTICAL
4	5184.800	100.61			62.76	33.73	4.12	0.00	AVERAGE	114	271	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

**Channel 46**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5150.000	55.95	-4.05	60.00	18.17	33.67	4.11	0.00	AVERAGE	133	318	VERTICAL
2	5150.000	66.55	-13.45	80.00	28.77	33.67	4.11	0.00	PEAK	133	318	VERTICAL
3	5238.400	115.82			77.84	33.82	4.16	0.00	PEAK	133	318	VERTICAL
4	5242.400	104.39			66.41	33.82	4.16	0.00	AVERAGE	133	318	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.



<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 40MHz Ch 54, 62 Ant. A + Ant. C
<b>Test Date</b>	Sep. 24, 2008		

**Channel 54**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5274.800	112.30			74.24	33.88	4.18	0.00	PEAK	132	266	VERTICAL
2 ☺	5281.200	101.65			63.56	33.91	4.18	0.00	AVERAGE	132	266	VERTICAL
3	5350.000	68.64	-11.36	80.00	30.39	34.03	4.22	0.00	PEAK	132	266	VERTICAL
4 ☺	5350.000	56.61	-3.39	60.00	18.36	34.03	4.22	0.00	AVERAGE	132	266	VERTICAL

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

**Channel 62**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5300.000	112.66			74.53	33.94	4.19	0.00	PEAK	134	258	VERTICAL
2 ☺	5304.400	100.79			62.66	33.94	4.19	0.00	AVERAGE	134	258	VERTICAL
3 ☺	5350.000	59.75	-0.25	60.00	21.50	34.03	4.22	0.00	AVERAGE	134	258	VERTICAL
4	5350.000	73.61	-6.39	80.00	35.36	34.03	4.22	0.00	PEAK	134	258	VERTICAL

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

<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	Draft n MCS8 40MHz Ch 102, 110, 134 Ant. A + Ant. C
<b>Test Date</b>	Sep. 24, 2008		

**Channel 102**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5460.000	59.14	-0.86	60.00	20.65	34.21	4.28	0.00	AVERAGE	126	254	VERTICAL
2	5460.000	71.26	-8.74	80.00	32.77	34.21	4.28	0.00	PEAK	126	254	VERTICAL
3 ☺	5470.000	73.62	-0.68	74.30	35.09	34.24	4.29	0.00	PEAK	126	254	VERTICAL
4 ☺	5518.000	111.22			72.64	34.28	4.30	0.00	PEAK	126	254	VERTICAL
5 ☺	5520.800	99.78			61.17	34.30	4.31	0.00	AVERAGE	126	254	VERTICAL

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

**Channel 110**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5450.800	74.42	-5.58	80.00	35.93	34.21	4.28	0.00	PEAK	127	253	VERTICAL
2 ☺	5460.000	59.89	-0.11	60.00	21.40	34.21	4.28	0.00	AVERAGE	127	253	VERTICAL
3 ☺	5470.000	72.27	-2.03	74.30	33.74	34.24	4.29	0.00	PEAK	127	253	VERTICAL
4 ☺	5559.200	117.94			79.31	34.31	4.32	0.00	PEAK	127	253	VERTICAL
5 ☺	5559.600	106.27			67.64	34.31	4.32	0.00	AVERAGE	127	253	VERTICAL

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

**Channel 134**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5656.000	98.45			59.75	34.33	4.36	0.00	PEAK	100	83	VERTICAL
2 ☺	5666.400	86.79			48.10	34.33	4.36	0.00	AVERAGE	100	83	VERTICAL
3	5725.000	67.27	-7.03	74.30	28.54	34.34	4.39	0.00	PEAK	100	83	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].



<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	802.11a Ch 36, 40 Ant. A
<b>Test Date</b>	Sep. 24, 2008		

**Channel 36**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5147.400	75.35	-4.65	80.00	37.57	33.67	4.11	0.00	PEAK	123	248	VERTICAL
2 ☺	5150.000	58.88	-1.12	60.00	21.10	33.67	4.11	0.00	AVERAGE	123	248	VERTICAL
3 ☺	5177.000	104.84			67.02	33.70	4.12	0.00	AVERAGE	123	248	VERTICAL
4 ☺	5177.800	115.48			77.63	33.73	4.12	0.00	PEAK	123	248	VERTICAL

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

**Channel 40**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☺	5150.000	55.47	-4.53	60.00	17.70	33.67	4.11	0.00	AVERAGE	100	86	VERTICAL
2	5150.000	66.68	-13.32	80.00	28.91	33.67	4.11	0.00	PEAK	100	86	VERTICAL
3 ☺	5197.000	99.10			61.21	33.76	4.13	0.00	AVERAGE	100	86	VERTICAL
4 ☺	5202.000	109.77			71.87	33.76	4.13	0.00	PEAK	100	86	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.



<b>Temperature</b>	25.6°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Johnson Chang	<b>Configurations</b>	802.11a Ch 60, 64 Ant. A
<b>Test Date</b>	Sep. 24, 2008		

**Channel 60**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☒	5293.600	101.84			63.73	33.91	4.19	0.00	AVERAGE	129	342	VERTICAL
2 ☒	5296.400	111.84			73.74	33.91	4.19	0.00	PEAK	129	342	VERTICAL
3 ☒	5353.200	56.92	-3.08	60.00	18.67	34.03	4.22	0.00	AVERAGE	129	342	VERTICAL
4 ☒	5353.200	70.55	-9.45	80.00	32.31	34.03	4.22	0.00	PEAK	129	342	VERTICAL

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

**Channel 64**

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 ☒	5314.400	103.71			65.55	33.97	4.19	0.00	AVERAGE	127	257	VERTICAL
2 ☒	5317.000	114.15			75.97	33.97	4.20	0.00	PEAK	127	257	VERTICAL
3 ☒	5352.600	74.68	-5.32	80.00	36.43	34.03	4.22	0.00	PEAK	127	257	VERTICAL
4 ☒	5354.200	58.34	-1.66	60.00	20.09	34.03	4.22	0.00	AVERAGE	127	257	VERTICAL

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





Temperature	25.6°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a Ch 100, 140 Ant. A
Test Date	Sep. 24, 2008		

**Channel 100**

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5458.200	69.98	-10.02	80.00	31.50	34.21	4.28	0.00	PEAK	139	250	VERTICAL
2 @	5460.000	57.12	-2.88	60.00	18.63	34.21	4.28	0.00	AVERAGE	139	250	VERTICAL
3 @	5470.000	71.25	-3.05	74.30	32.72	34.24	4.29	0.00	PEAK	139	250	VERTICAL
4 @	5495.800	106.81			68.25	34.26	4.30	0.00	AVERAGE	139	250	VERTICAL
5 @	5497.800	116.15			77.59	34.26	4.30	0.00	PEAK	139	250	VERTICAL

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

**Channel 140**

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5694.000	113.99			75.29	34.34	4.37	0.00	PEAK	139	311	VERTICAL
2 @	5697.000	103.44			64.73	34.34	4.37	0.00	AVERAGE	139	311	VERTICAL
3 @	5726.400	72.71	-1.59	74.30	33.97	34.34	4.39	0.00	PEAK	139	311	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

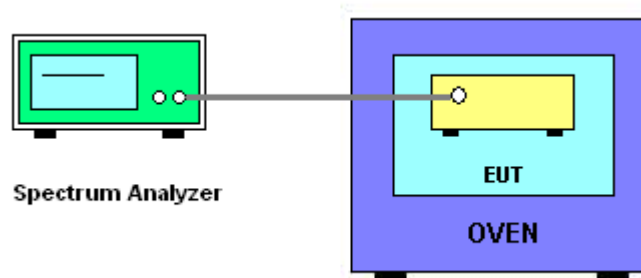
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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 analyser.
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 Power Meter 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

##### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
	5200	5300
(V)		
126.50	5200.018987	5300.013850
110.00	5200.028826	5300.023820
93.50	5200.026845	5300.026350
Max. Deviation (MHz)	<b>0.028826</b>	<b>0.026350</b>
Max. Deviation (ppm)	<b>5.54</b>	<b>4.97</b>

##### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
	5200	5300
(°C)		
-30	5200.0700	5300.0700
-20	5200.0700	5300.0700
-10	5200.0700	5300.0600
0	5200.0600	5300.0600
10	5200.0600	5300.0500
20	5200.0400	5300.0500
30	5200.0400	5300.0400
40	5200.0400	5300.0400
50	5200.0500	5300.0500
Max. Deviation (MHz)	<b>0.070000</b>	<b>0.070000</b>
Max. Deviation (ppm)	<b>13.46</b>	<b>13.2075</b>

## 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	Mar. 03, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN ST08	21653	9kHz – 30MHz	Mar. 27, 2008	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. 14, 2008	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 14, 2008	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	Jan. 22, 2007*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004	9 kHz - 40 GHz	Sep. 27, 2007	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2007*	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. 04, 2008	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan. 18, 2008	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Jan. 10, 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	May 30, 2008*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2008	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, 2007	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2007	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2007	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 10, 2008	Conducted (TH01-HY)
oscilloscope	Tektonix	TDS380	B016197	400MHz/ 2GS/s	Jun. 27, 2008	Conducted (TH01-HY)

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

\* Calibration Interval of instruments listed above is two year.

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 <sup>nd</sup> 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

PI, total 9 pages

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