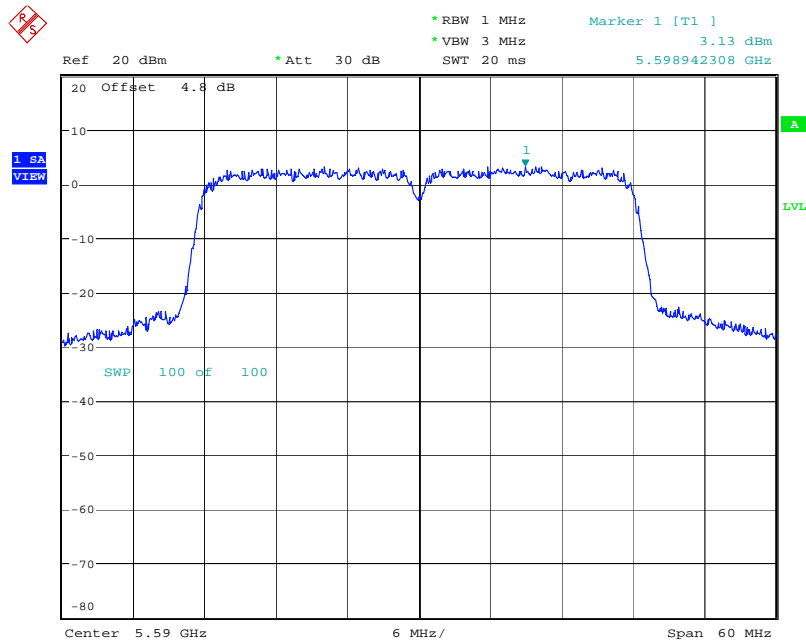
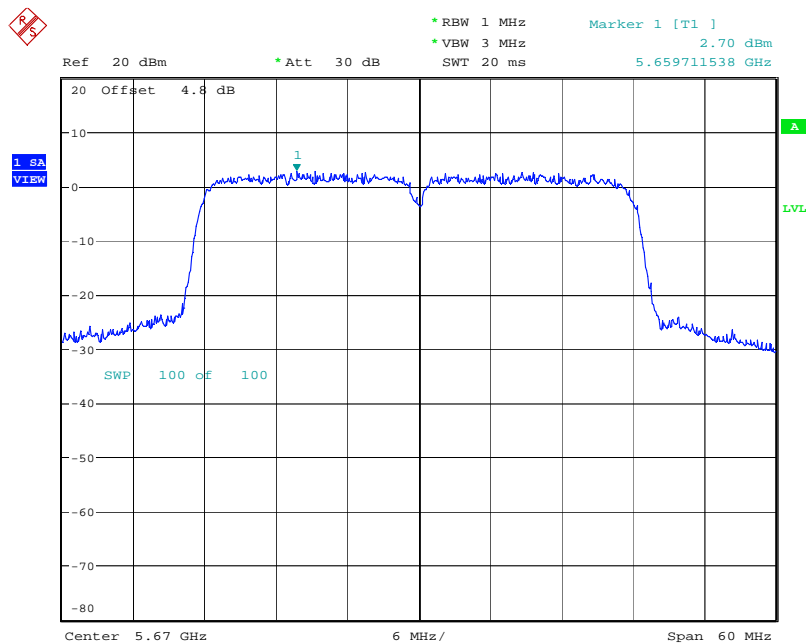


Power Density Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5590 MHz



Date: 2.FEB.2008 10:45:14

Power Density Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5670 MHz



Date: 2.FEB.2008 10:49:11

4.5. Peak Excursion Measurement

4.5.1. Limit

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.

4.5.2. Measuring Instruments and Setting

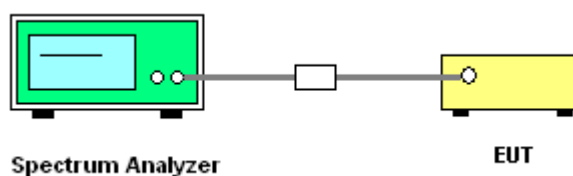
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|--------------------|--|
| Attenuation | Auto |
| Span Frequency | Encompass the entire emissions bandwidth (EBW) of the signal |
| RB | 1000 kHz (Peak Trace) / 1000 kHz (Average Trace) |
| VB | 3000 kHz (Peak Trace) / 300 kHz (Average Trace) |
| Detector | Peak (Peak Trace) / Sample (Average Trace) |
| Trace | Max Hold |
| Sweep Time | 60s |

4.5.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set the spectrum analyzer span to view the entire emissions bandwidth. The largest difference between the following two traces (Peak Trace and Average Trace) must be ≤ 13 dB for all frequencies across the emissions bandwidth. Submit a plot.
3. Peak Trace: Set RBW = 1 MHz, VBW ≥ 3 MHz with peak detector and max-hold settings.
4. Average Trace: Method #3—video averaging with max hold--and sum power across the band. Set span to encompass the entire emissions bandwidth (EBW) of the signal. Set sweep trigger to "free run". Set RBW = 1 MHz. Set VBW $\geq 1/T$ (Draft n VBW = 300kHz $\geq 1/4 \mu s$). Use sample detector mode if bin width (i.e., span/number of points in spectrum) < 0.5 RBW. Otherwise use peak detector mode . Set max hold. Allow max hold to run for 60 seconds.
5. Measuring multiple antennas, the connector is required to link with spectrum analyzer through a combiner.

4.5.4. Test Setup Layout



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of Peak Excursion

| | | | |
|----------------------|----------|-----------------------|---------|
| Temperature | 20°C | Humidity | 70% |
| Test Engineer | Jacky Ho | Configurations | Draft n |

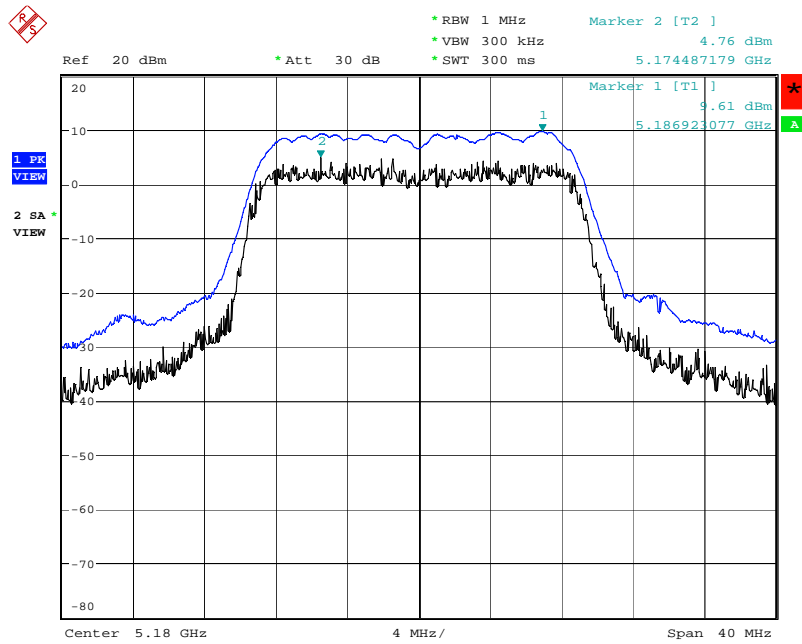
Configuration Draft n MCS8 20MHz Ant. A + Ant. B

| Channel | Frequency | Peak Excursion (dB) | Max. Limit (dB) | Result |
|---------|-----------|---------------------|-----------------|----------|
| 36 | 5180 MHz | 4.85 | 13 | Complies |
| 40 | 5200 MHz | 4.57 | 13 | Complies |
| 48 | 5240 MHz | 5.07 | 13 | Complies |
| 52 | 5260 MHz | 4.91 | 13 | Complies |
| 60 | 5300 MHz | 4.96 | 13 | Complies |
| 64 | 5320 MHz | 5.29 | 13 | Complies |
| 100 | 5500 MHz | 5.09 | 13 | Complies |
| 120 | 5600 MHz | 4.76 | 13 | Complies |
| 140 | 5700 MHz | 4.75 | 13 | Complies |

Configuration Draft n MCS8 40MHz Ant. A + Ant. B

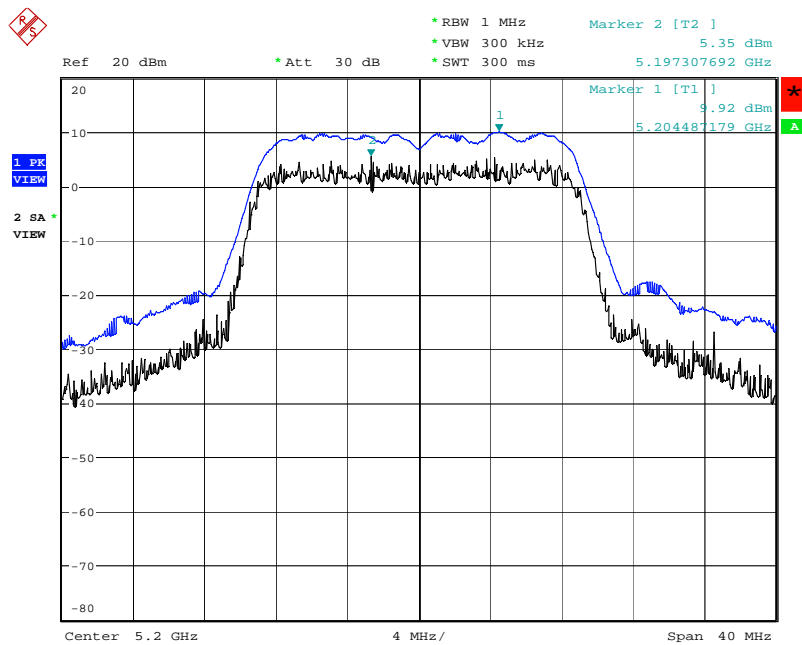
| Channel | Frequency | Peak Excursion (dB) | Max. Limit (dB) | Result |
|---------|-----------|---------------------|-----------------|----------|
| 38 | 5190 MHz | 4.73 | 13 | Complies |
| 46 | 5230 MHz | 4.98 | 13 | Complies |
| 54 | 5270 MHz | 5.37 | 13 | Complies |
| 62 | 5310 MHz | 4.53 | 13 | Complies |
| 102 | 5510MHz | 4.83 | 13 | Complies |
| 118 | 5590 MHz | 5.24 | 13 | Complies |
| 134 | 5670 MHz | 5.15 | 13 | Complies |

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5180 MHz



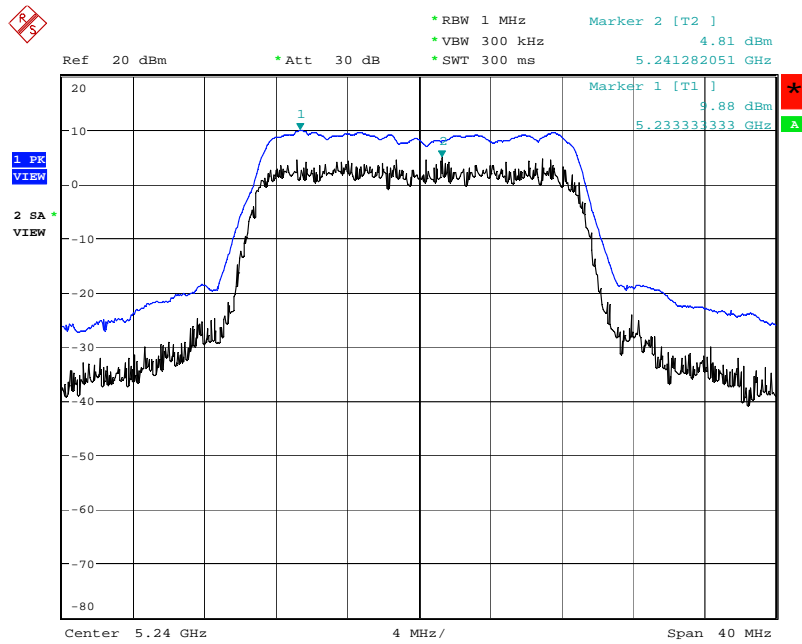
Date: 2.FEB.2008 10:56:31

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5200 MHz



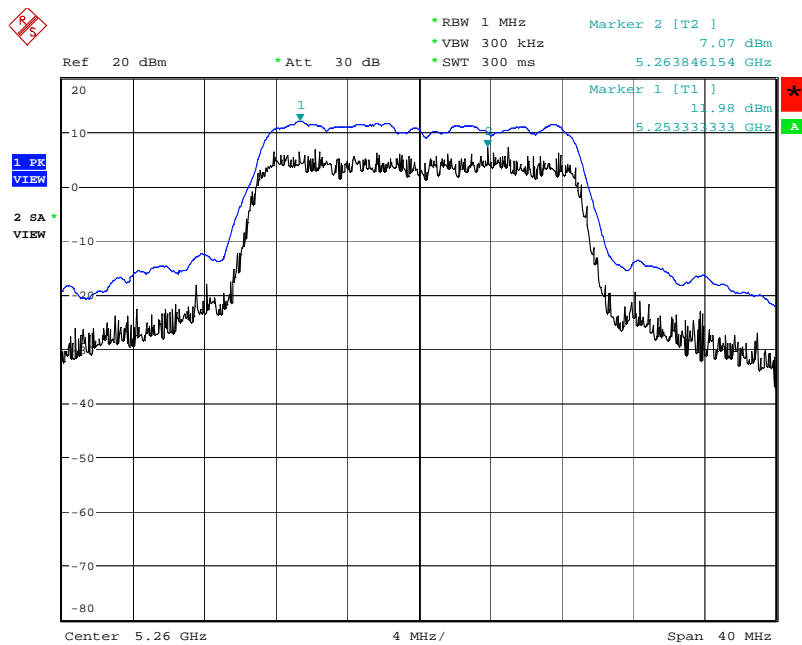
Date: 2.FEB.2008 11:01:26

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5240 MHz



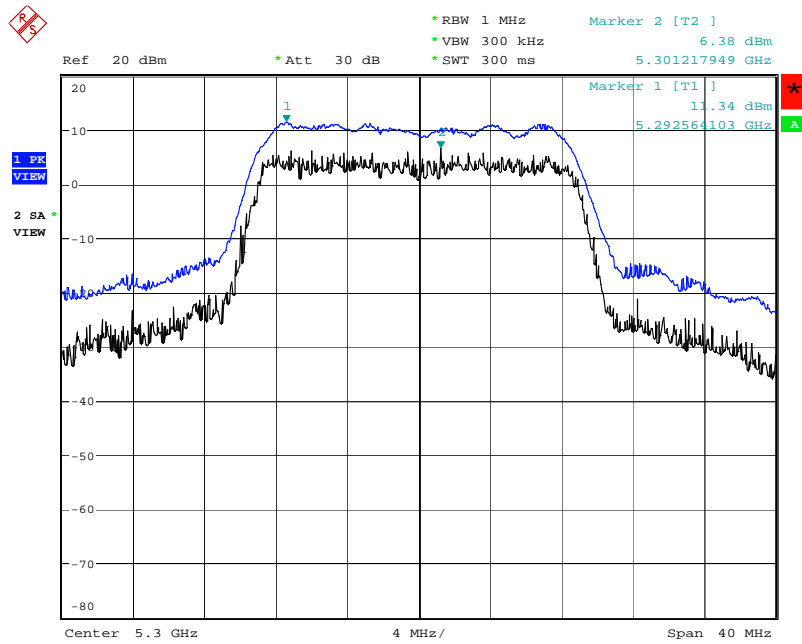
Date: 2.FEB.2008 11:04:49

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5260 MHz



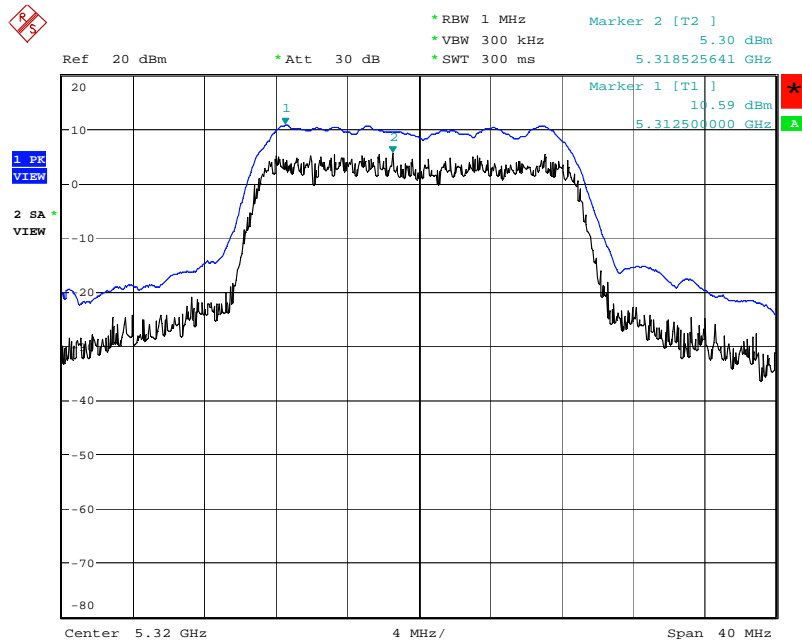
Date: 2.FEB.2008 11:06:19

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5300 MHz



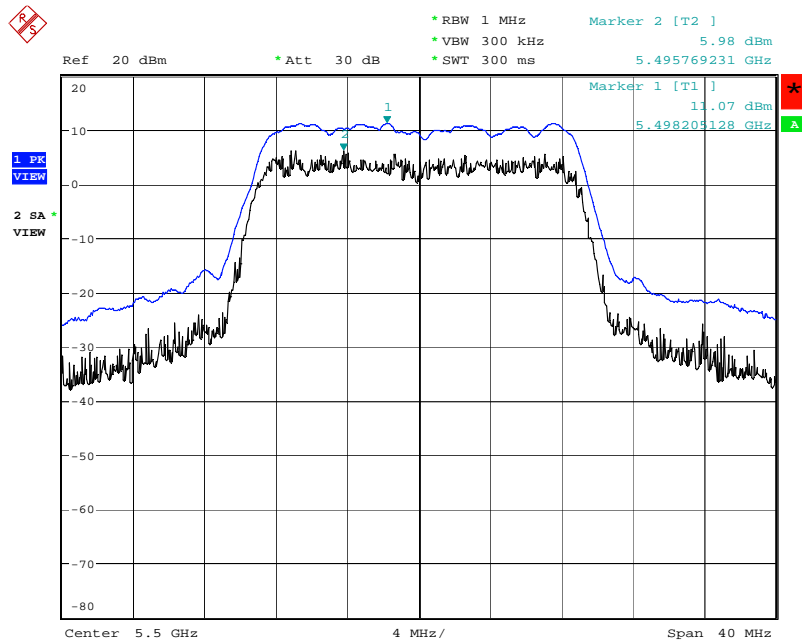
Date: 2.FEB.2008 11:11:39

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5320 MHz



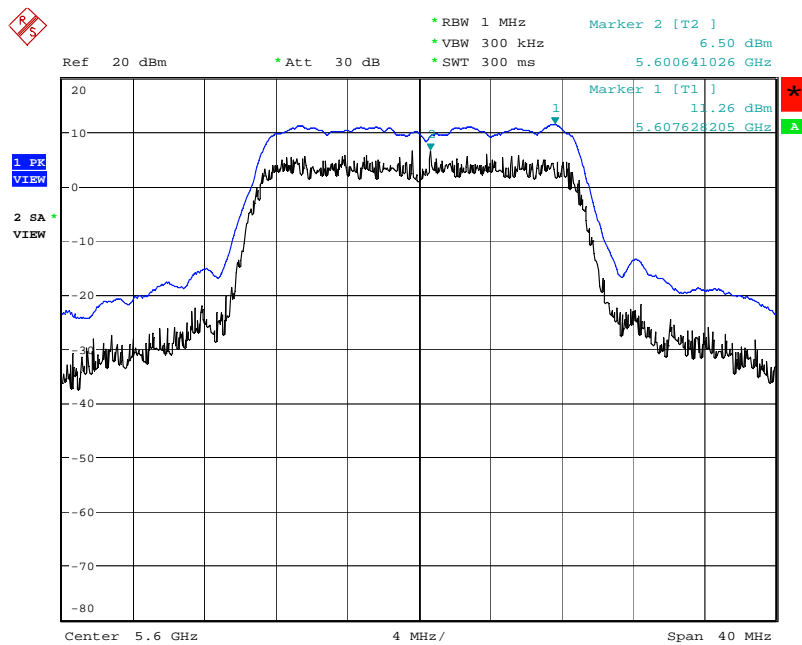
Date: 2.FEB.2008 11:08:28

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5500 MHz



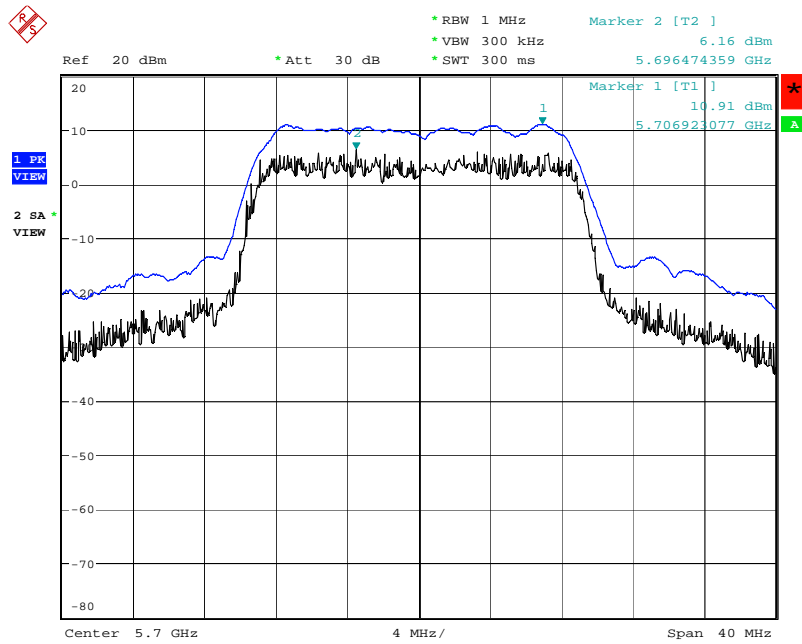
Date: 2.FEB.2008 11:28:24

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5600 MHz



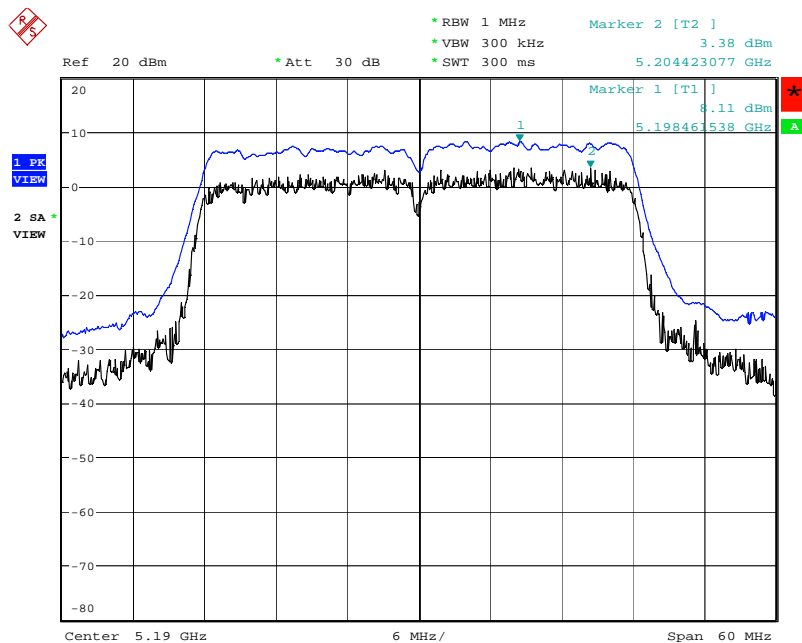
Date: 2.FEB.2008 11:30:02

Peak Excursion Plot on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5700 MHz



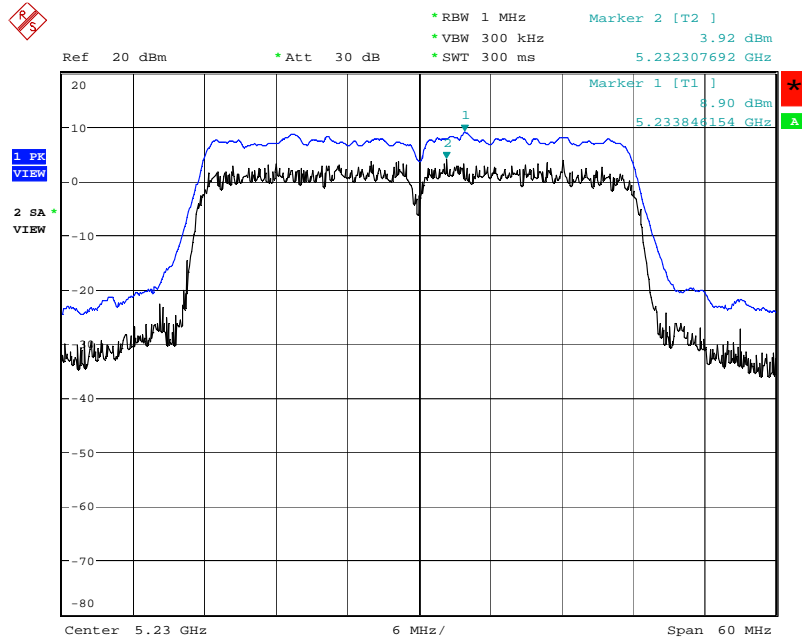
Date: 2.FEB.2008 11:32:00

Peak Excursion Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5190 MHz



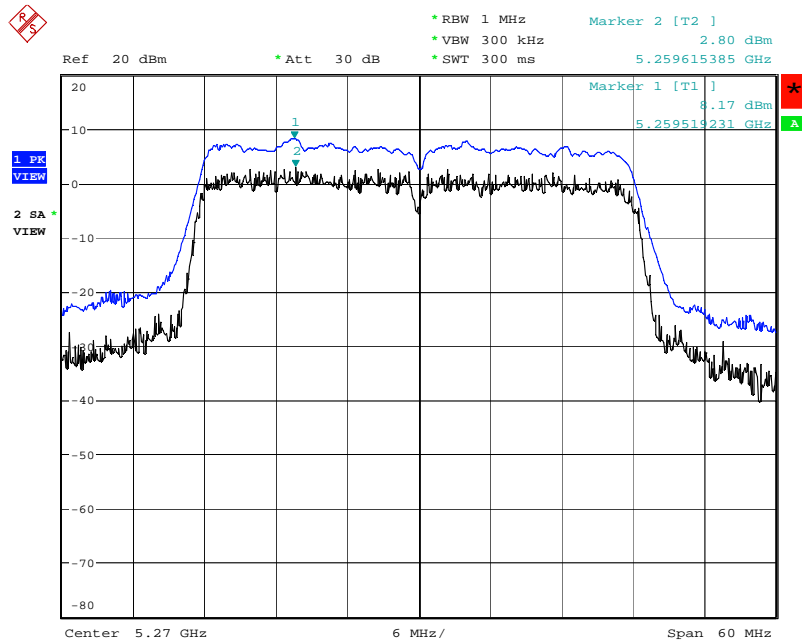
Date: 2.FEB.2008 10:27:13

Peak Excursion Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5230 MHz



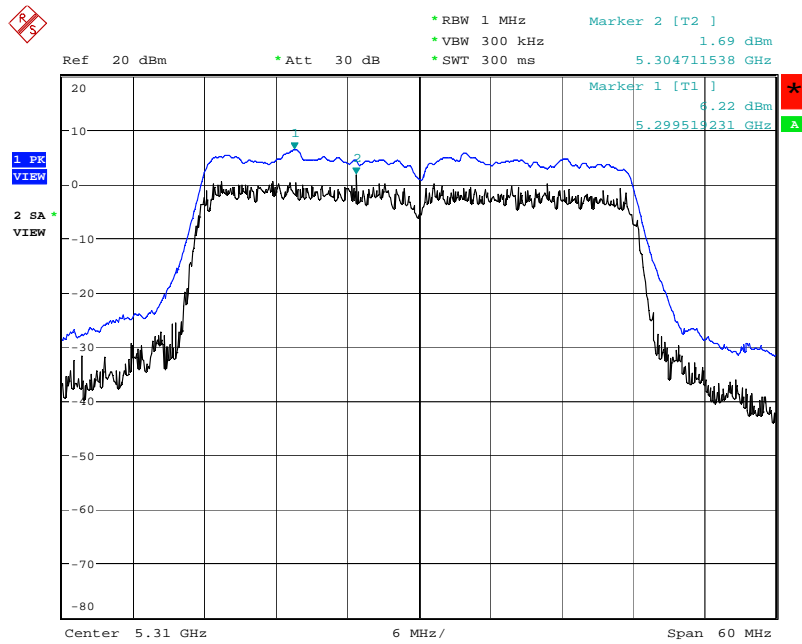
Date: 2.FEB.2008 10:33:41

Peak Excursion Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5270 MHz



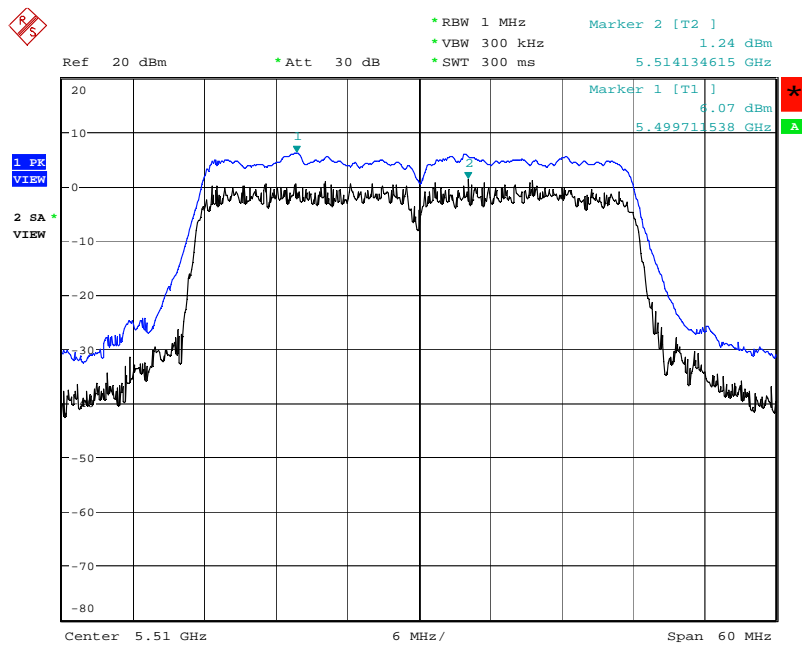
Date: 2.FEB.2008 10:35:49

Peak Excursion Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5310 MHz



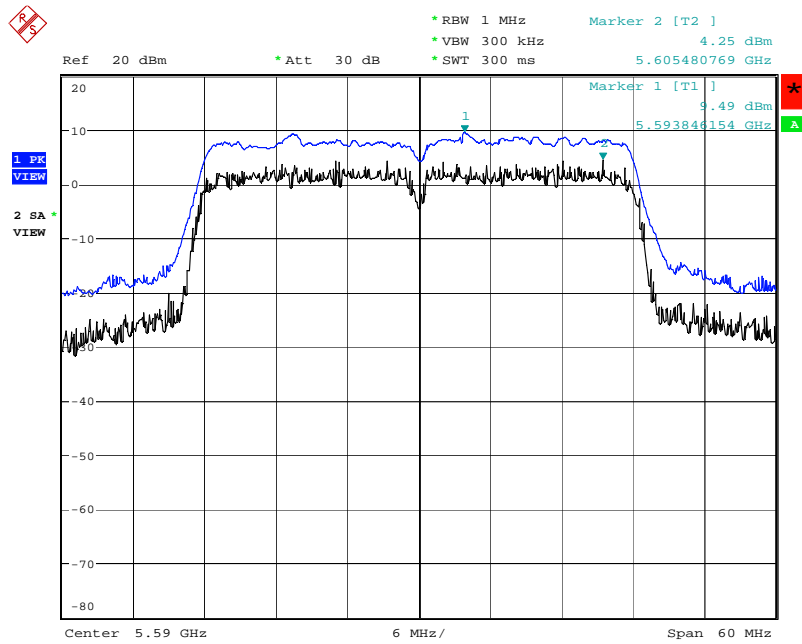
Date: 2.FEB.2008 12:07:47

Peak Excursion Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5510MHz



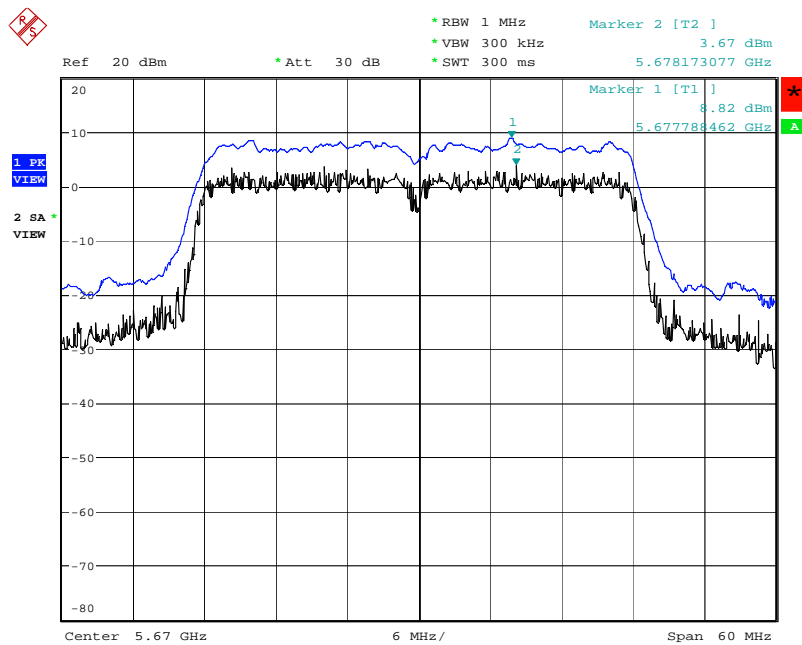
Date: 2.FEB.2008 10:43:23

Peak Excursion Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5590 MHz



Date: 2.FEB.2008 10:46:01

Peak Excursion Plot on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5670 MHz



Date: 2.FEB.2008 10:49:57

4.6. Radiated Emissions Measurement

4.6.1. 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 (microrvolts/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 |

4.6.2. Measuring Instruments and Setting

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

| Spectrum Parameter | Setting |
|---|--|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 40 GHz |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (Emission in non-restricted band) | 1000KHz / 1000KHz for peak |

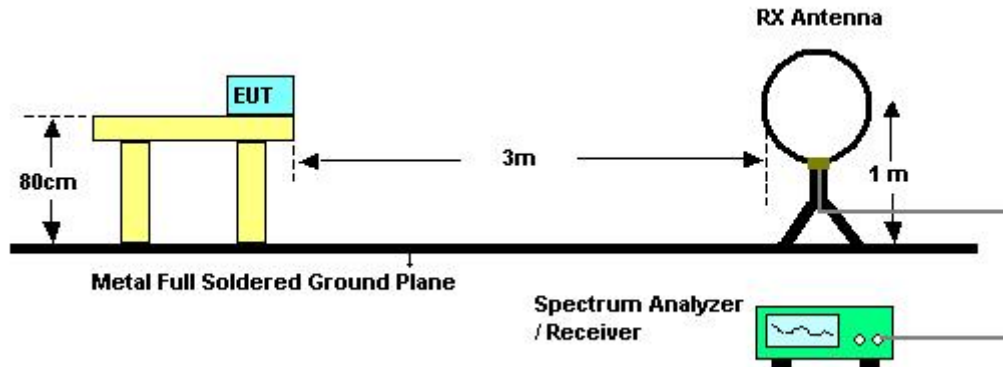
| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

4.6.3. Test Procedures

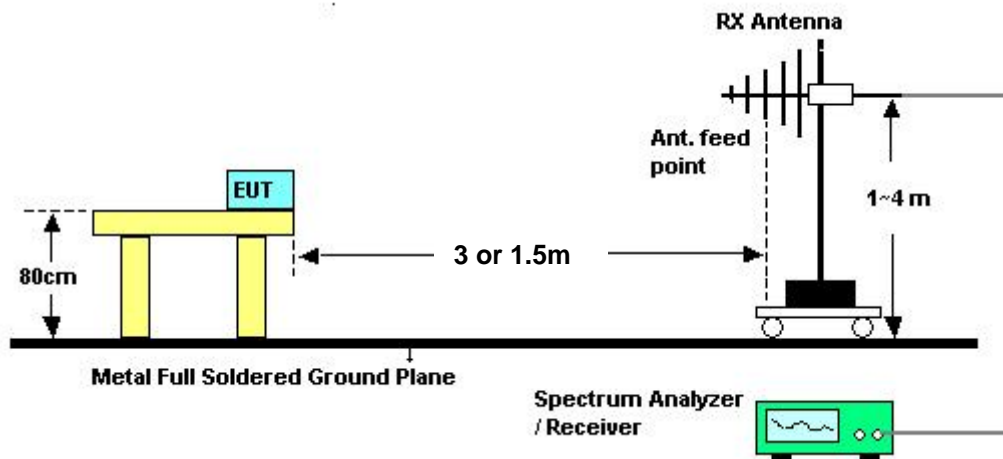
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.6.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



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 = $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$ (dB);

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

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz)

| | | | |
|----------------------|----------|-----------------|-----|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | | |

| Freq. (MHz) | Level (dBuV) | Over Limit (dB) | Limit Line (dBuV) | Remark |
|-------------|--------------|-----------------|-------------------|----------|
| - | - | - | - | See Note |

Note:

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

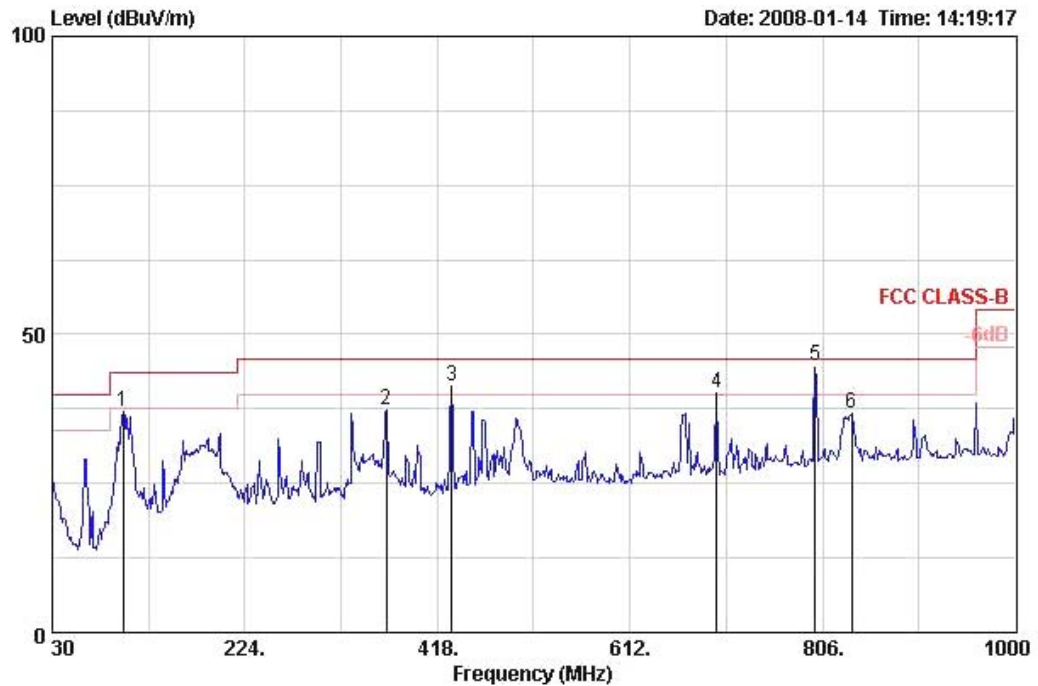
Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6.8. Results of Radiated Emissions (30MHz~1GHz)

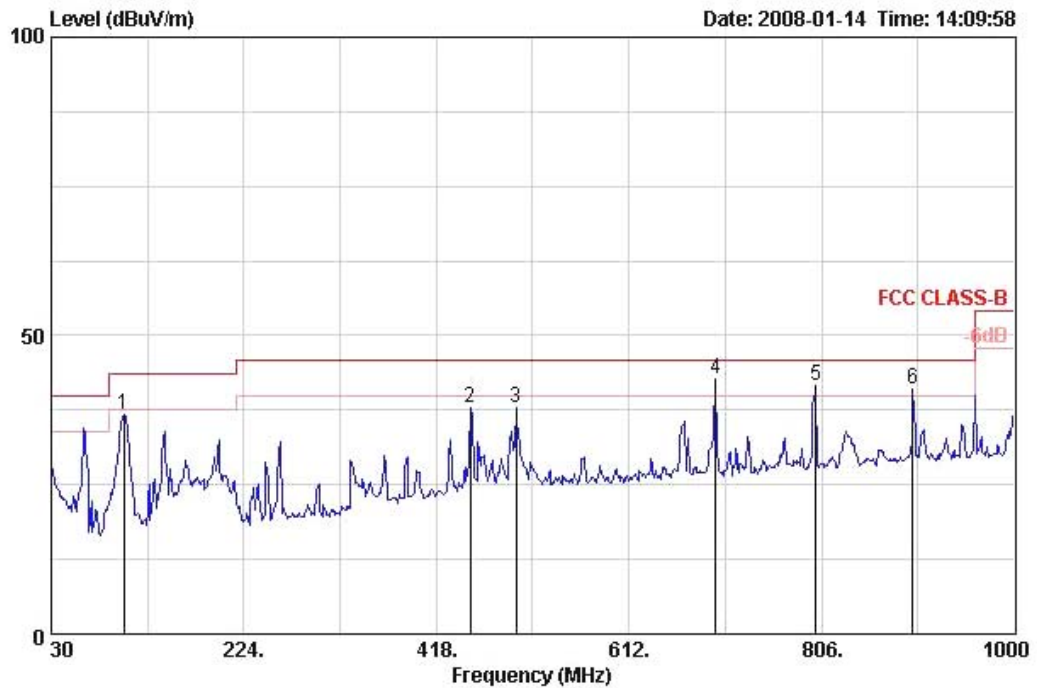
| | | | |
|---------------|----------|----------------|----------------------|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Normal Link / Mode 2 |

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 @ | 101.780 | 37.05 | -6.45 | 43.50 | 55.74 | 11.52 | 1.50 | 31.71 | Peak | 400 | -1 | HORIZONTAL |
| 2 @ | 366.590 | 37.35 | -8.65 | 46.00 | 50.22 | 15.80 | 2.50 | 31.17 | Peak | 400 | -1 | HORIZONTAL |
| 3 @ | 432.550 | 41.30 | -4.70 | 46.00 | 52.44 | 16.99 | 2.83 | 30.96 | Peak | 400 | -1 | HORIZONTAL |
| 4 @ | 699.300 | 40.10 | -5.90 | 46.00 | 47.22 | 19.80 | 3.60 | 30.52 | Peak | 400 | -1 | HORIZONTAL |
| 5 @ | 798.710 | 44.81 | -1.20 | 46.00 | 50.50 | 20.68 | 3.80 | 30.18 | QP | 128 | 86 | HORIZONTAL |
| 6 @ | 835.100 | 36.74 | -9.26 | 46.00 | 41.81 | 21.12 | 3.94 | 30.14 | Peak | 400 | -1 | 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 | 102.750 | 36.74 | -6.76 | 43.50 | 55.27 | 11.68 | 1.50 | 31.72 | Peak | 400 | -4 | VERTICAL |
| 2 | 451.950 | 37.91 | -8.09 | 46.00 | 48.69 | 17.23 | 2.92 | 30.92 | Peak | 400 | -4 | VERTICAL |
| 3 | 498.510 | 37.88 | -8.12 | 46.00 | 47.66 | 17.87 | 3.28 | 30.94 | Peak | 400 | -4 | VERTICAL |
| 4 | 699.300 | 42.76 | -3.24 | 46.00 | 49.88 | 19.80 | 3.60 | 30.52 | Peak | 400 | -4 | VERTICAL |
| 5 | 800.180 | 41.58 | -4.42 | 46.00 | 47.26 | 20.70 | 3.80 | 30.18 | Peak | 400 | -4 | VERTICAL |
| 6 | 898.150 | 41.00 | -5.00 | 46.00 | 45.03 | 21.59 | 4.10 | 29.71 | Peak | 400 | -4 | VERTICAL |

Note:

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

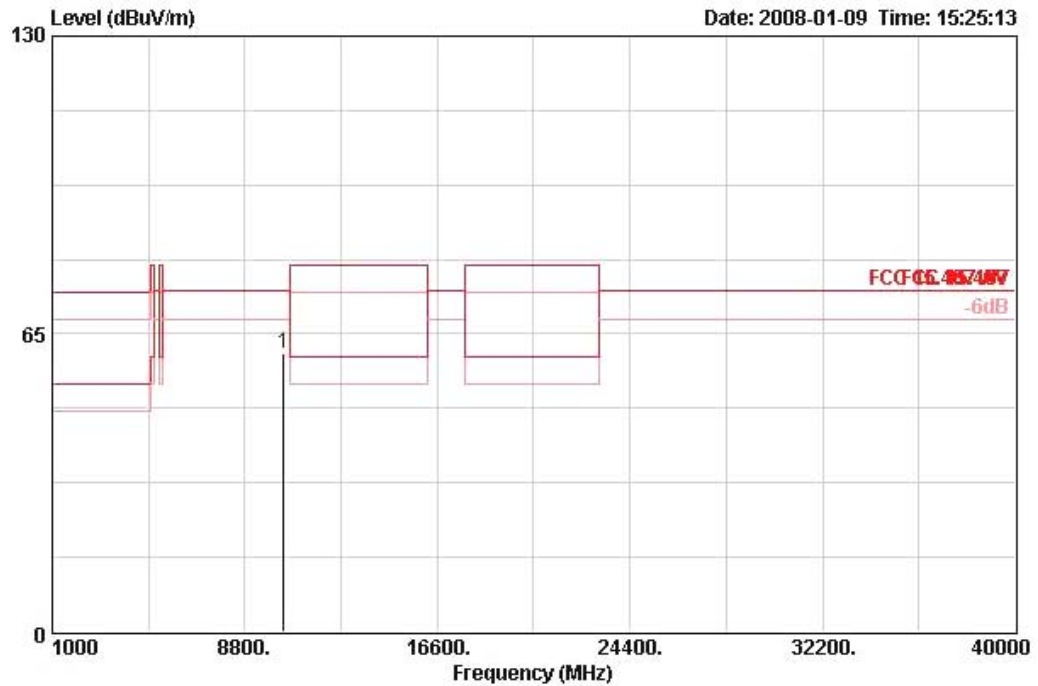
Emission level (dBUV/m) = 20 log Emission level (uV/m).

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

4.6.9. Results for Radiated Emissions (1GHz~40GHz)

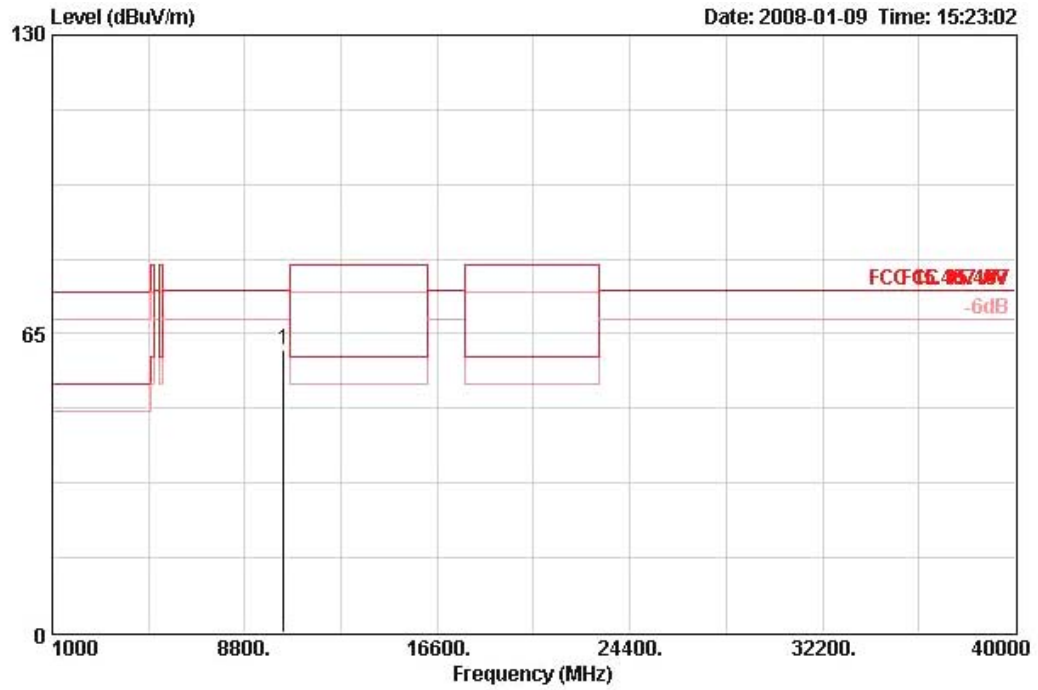
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 36 Ant. A + Ant. B |

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 | 10357.480 | 60.73 | -13.57 | 74.30 | 48.16 | 38.37 | 9.32 | 35.12 | PEAK | 131 | 121 | HORIZONTAL |

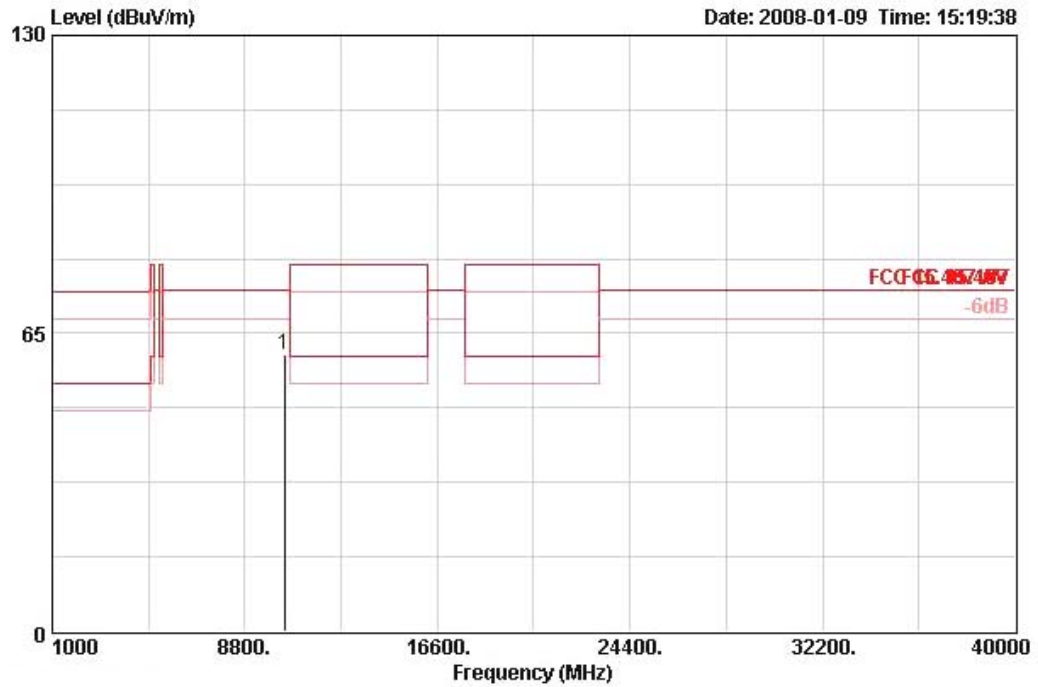
Vertical



| | 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 | 10357.440 | 61.47 | -12.83 | 74.30 | 48.90 | 38.37 | 9.32 | 35.12 | PEAK | 121 | 279 | VERTICAL |

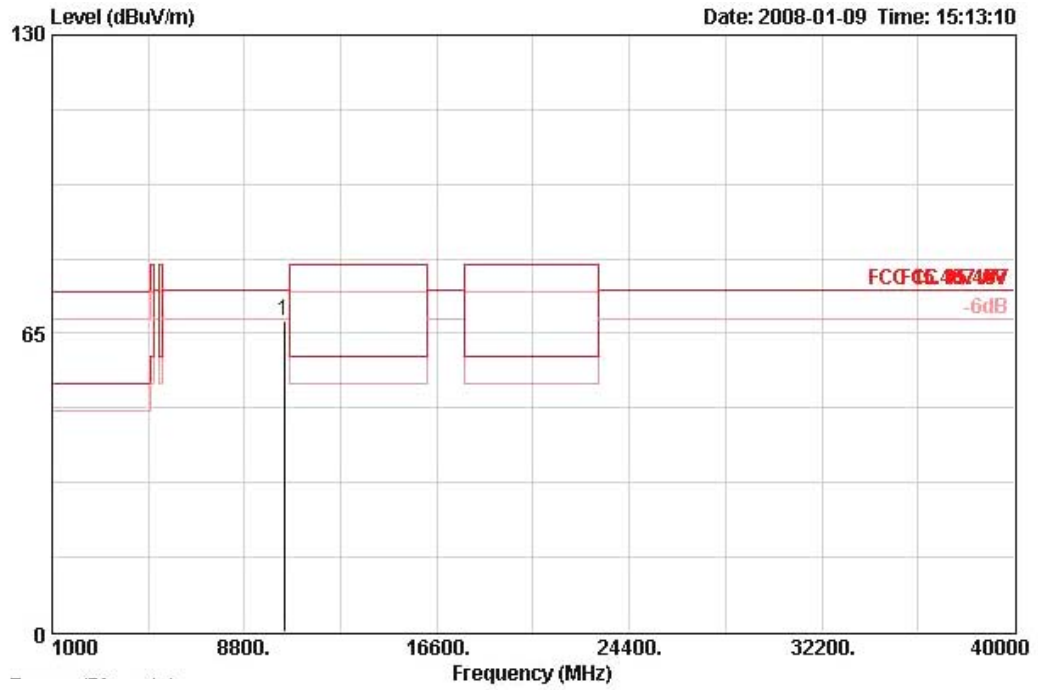
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 40 Ant. A + Ant. B |

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 | 10397.240 | 60.42 | -13.88 | 74.30 | 47.74 | 38.38 | 9.36 | 35.05 | PEAK | 130 | 128 | HORIZONTAL |

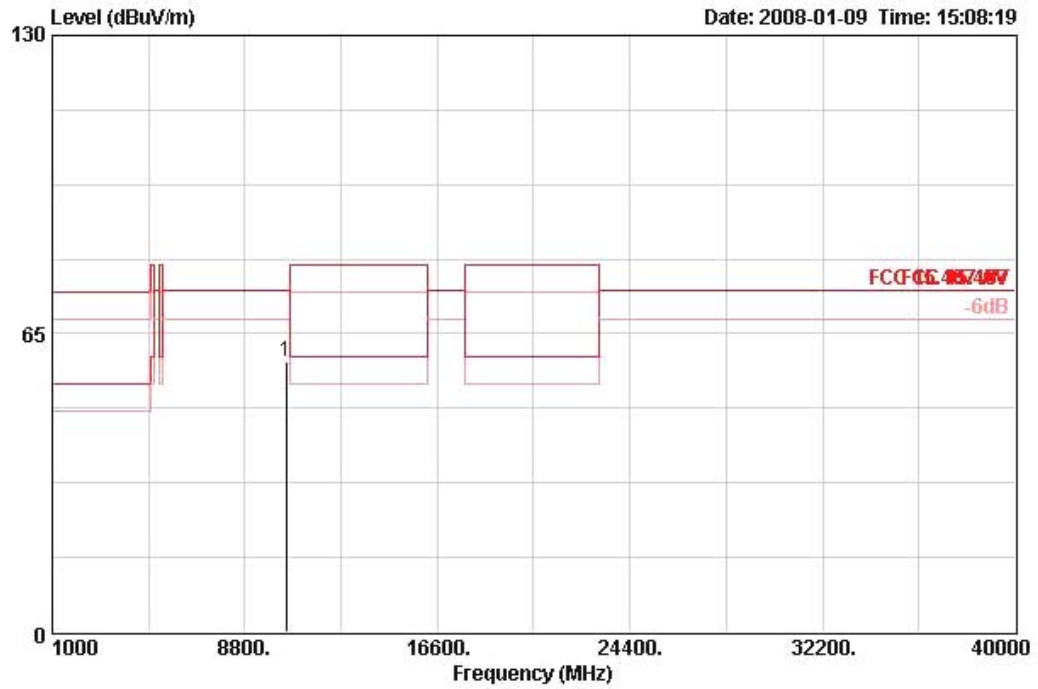
Vertical



| | 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 | 10402.440 | 67.64 | -6.66 | 74.30 | 54.95 | 38.38 | 9.36 | 35.05 | PEAK | 118 | 289 | VERTICAL |

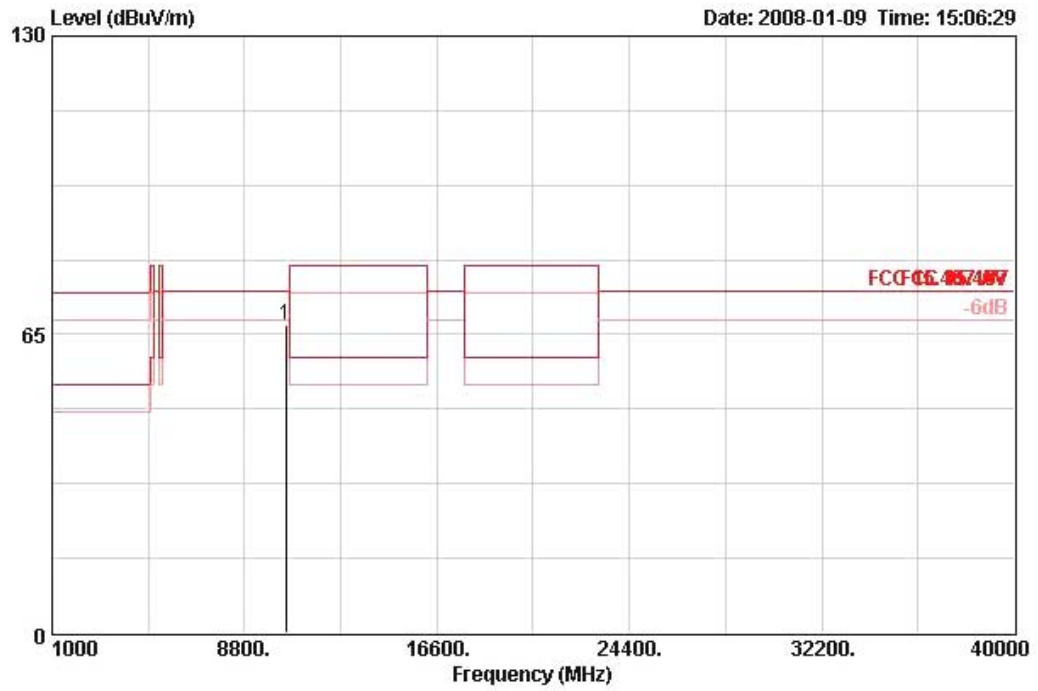
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 48 Ant. A + Ant. B |

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 | 10479.600 | 59.00 | -15.30 | 74.30 | 46.16 | 38.40 | 9.41 | 34.96 | PEAK | 132 | 145 | HORIZONTAL |

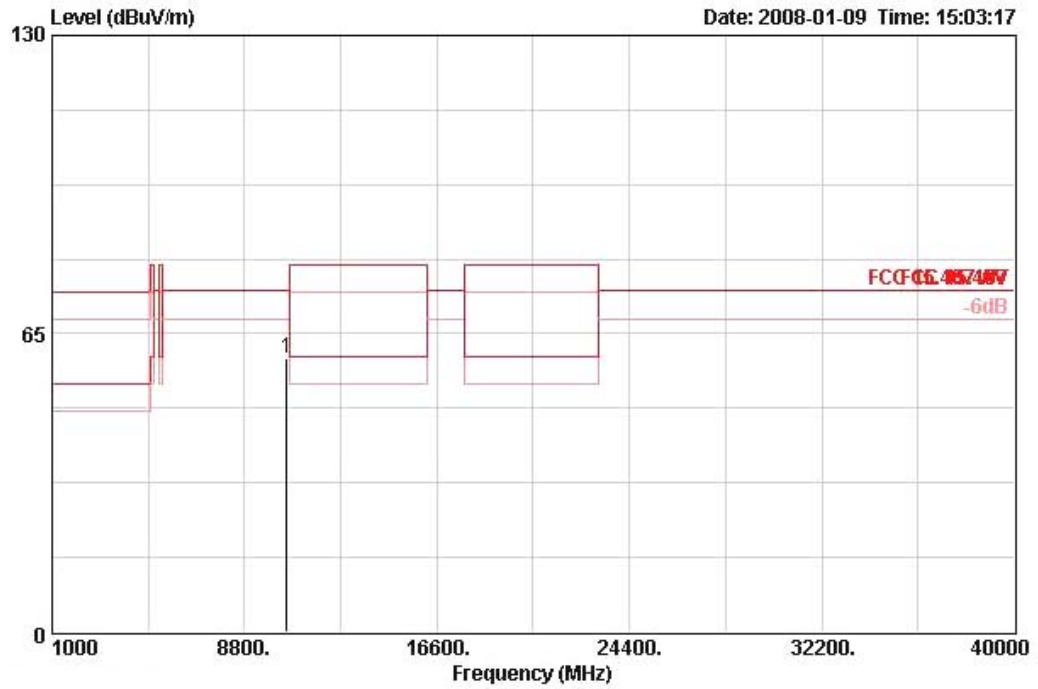
Vertical



| | 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 | 10482.440 | 66.97 | -7.33 | 74.30 | 54.12 | 38.40 | 9.41 | 34.96 | PERK | 121 | 307 | VERTICAL |

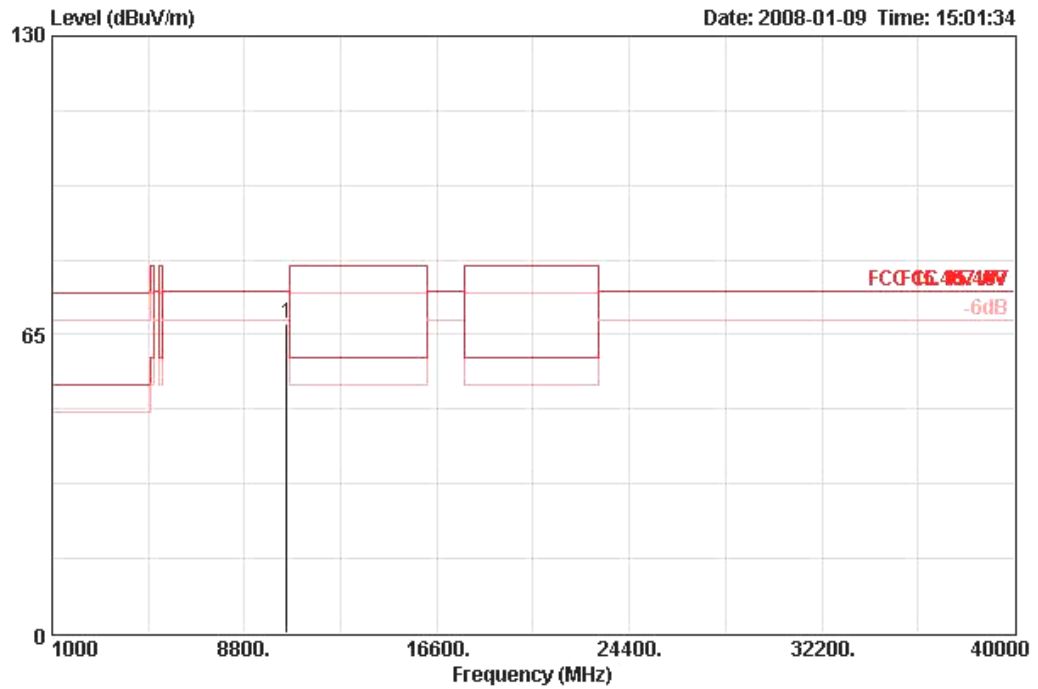
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 52 Ant. A + Ant. B |

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 | 10519.920 | 59.75 | -14.55 | 74.30 | 46.85 | 38.40 | 9.43 | 34.93 | PEAK | 129 | 142 | HORIZONTAL |

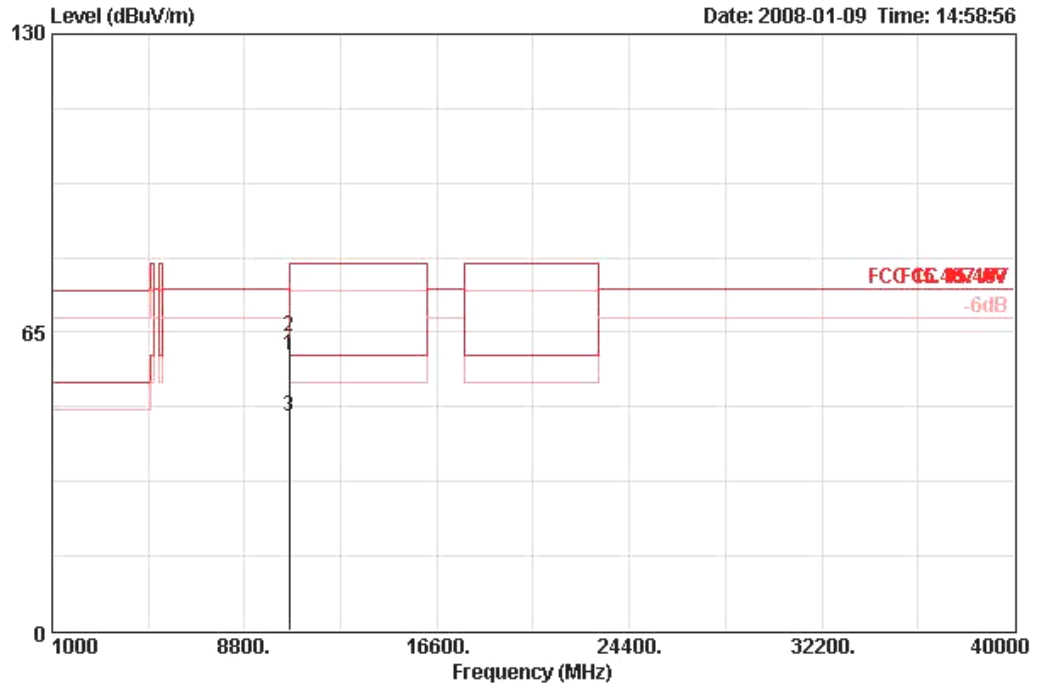
Vertical



| | 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 | 10526.240 | 67.36 | -6.94 | 74.30 | 54.44 | 38.40 | 9.44 | 34.92 | PEAK | 122 | 280 | VERTICAL |

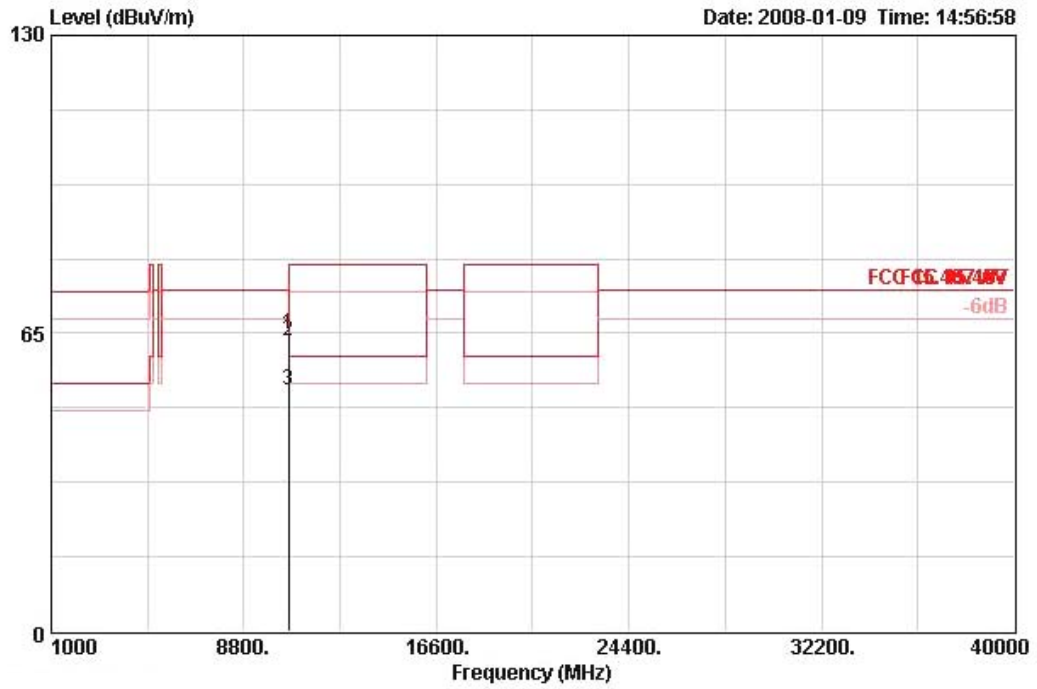
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 60 Ant. A + Ant. B |

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 | 10597.240 | 59.96 | -14.34 | 74.30 | 47.00 | 38.38 | 9.47 | 34.90 | PEAK | 136 | 145 | HORIZONTAL |
| 2 | 10600.000 | 63.94 | -16.06 | 80.00 | 50.99 | 38.38 | 9.47 | 34.90 | PEAK | 136 | 146 | HORIZONTAL |
| 3 | 10601.240 | 46.50 | -13.50 | 60.00 | 33.52 | 38.38 | 9.48 | 34.89 | AVERAGE | 136 | 145 | HORIZONTAL |

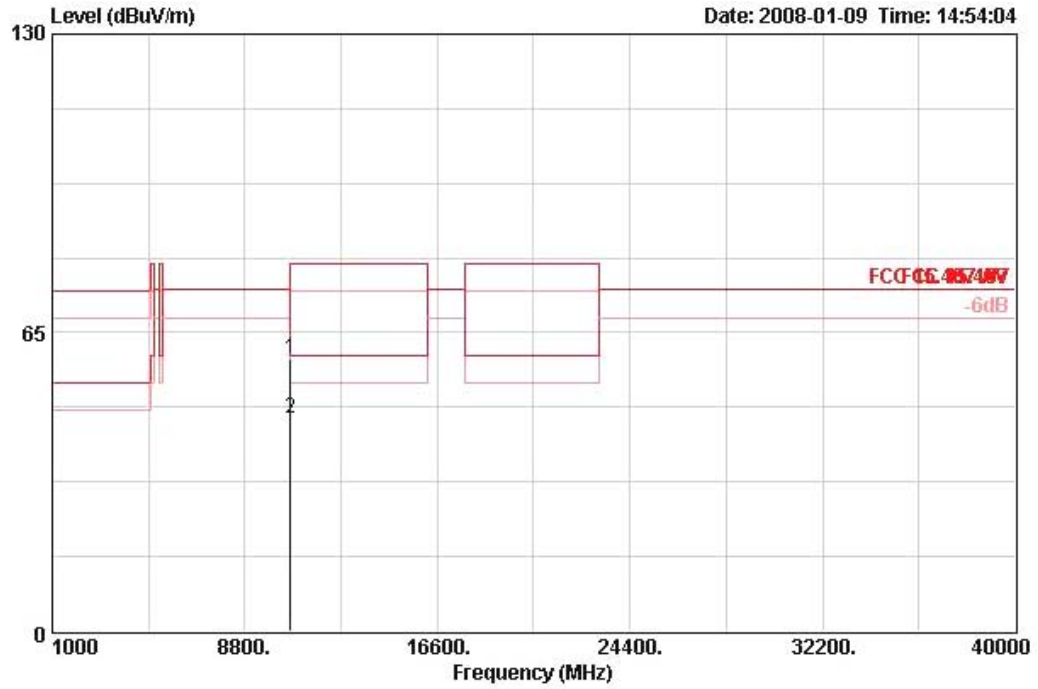
Vertical



| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Remark | Ant | Table |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|-----|--------------|
| | MHz | dBuV/m | dB | dBuV/m | Level | Factor | Loss | Factor | | Pos | Pos |
| | | | | | dBuV | dB/m | dB | dB | | cm | deg |
| 1 | 10599.990 | 64.78 | -9.52 | 74.30 | 51.83 | 38.38 | 9.47 | 34.90 | PEAK | 122 | 275 VERTICAL |
| 2 | 10600.000 | 63.42 | -16.58 | 80.00 | 50.47 | 38.38 | 9.47 | 34.90 | PEAK | 122 | 278 VERTICAL |
| 3 | 10600.010 | 52.45 | -7.55 | 60.00 | 39.50 | 38.38 | 9.47 | 34.90 | AVERAGE | 122 | 275 VERTICAL |

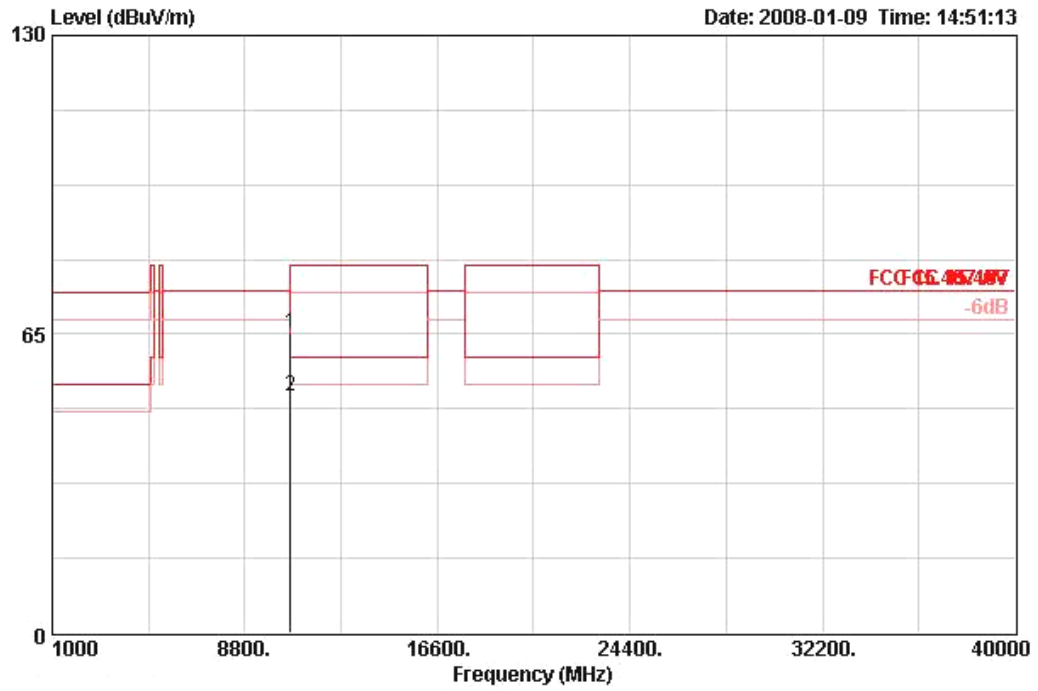
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 64 Ant. A + Ant. B |

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 | 10637.920 | 59.38 | -20.62 | 80.00 | 46.39 | 38.37 | 9.50 | 34.88 | PEAK | 138 | 141 | HORIZONTAL |
| 2 | 10638.360 | 46.33 | -13.67 | 60.00 | 33.34 | 38.37 | 9.50 | 34.88 | AVERAGE | 138 | 141 | HORIZONTAL |

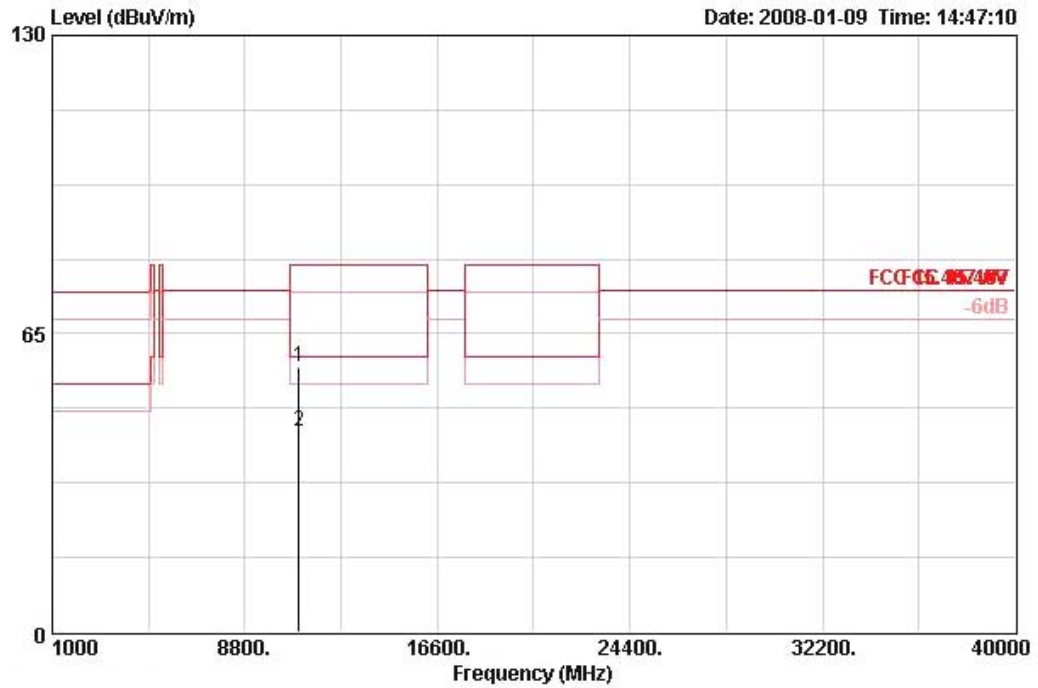
Vertical



| | 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 ☺ | 10638.320 | 65.35 | -14.65 | 80.00 | 52.36 | 38.37 | 9.50 | 34.88 | PEAK | 120 | 281 | VERTICAL |
| 2 ☺ | 10640.600 | 51.55 | -8.45 | 60.00 | 38.56 | 38.37 | 9.50 | 34.88 | AVERAGE | 120 | 281 | VERTICAL |

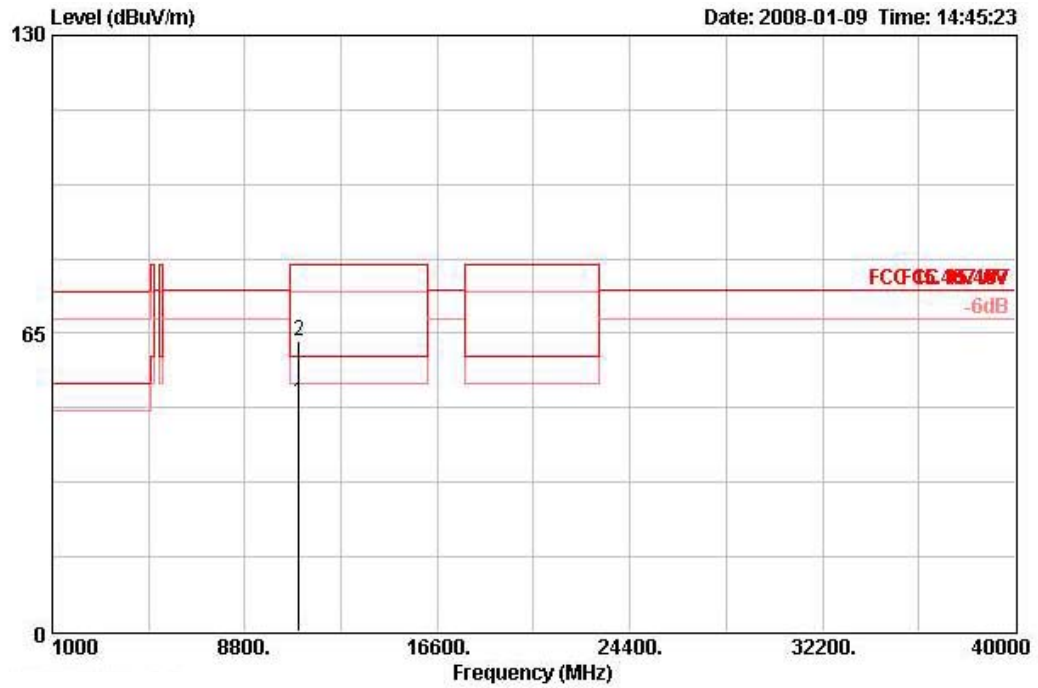
| | | | |
|---------------|----------|----------------|---|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 100 Ant. A + Ant. B |

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 | 11000.200 | 57.89 | -22.11 | 80.00 | 44.65 | 38.30 | 9.69 | 34.76 | PEAK | 100 | 121 | HORIZONTAL |
| 2 | 11004.600 | 43.72 | -16.28 | 60.00 | 30.47 | 38.32 | 9.69 | 34.76 | AVERAGE | 100 | 121 | HORIZONTAL |

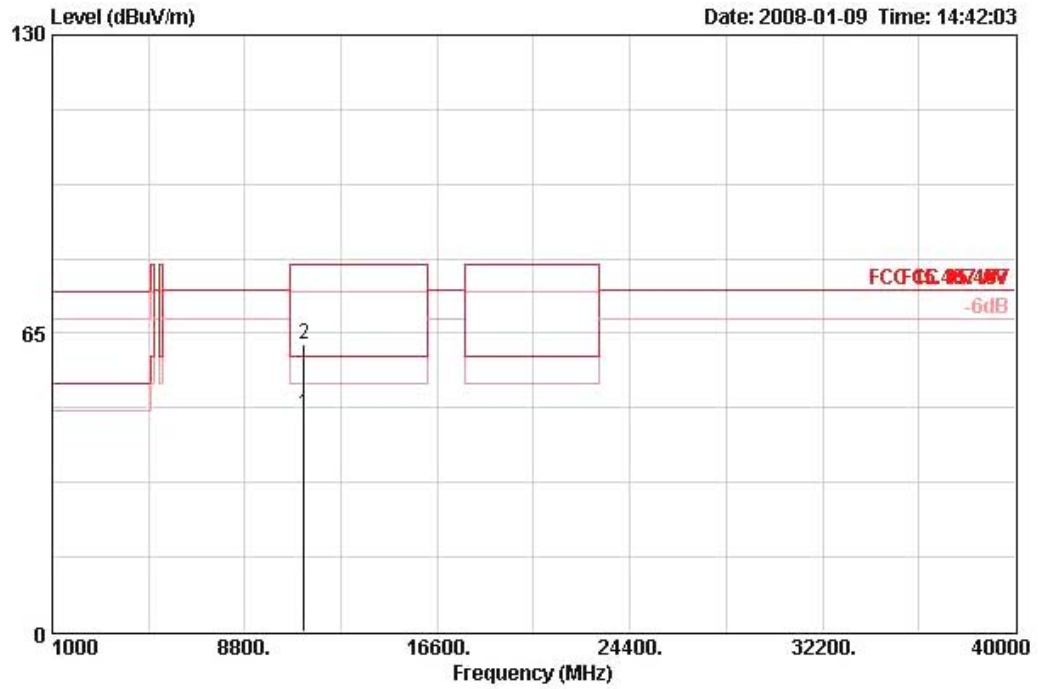
Vertical



| | 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 | 10998.960 | 50.00 | -10.00 | 60.00 | 36.76 | 38.30 | 9.69 | 34.76 | AVERAGE | 119 | 297 | VERTICAL |
| 2 | 11000.360 | 63.27 | -16.73 | 80.00 | 50.04 | 38.30 | 9.69 | 34.76 | PEAK | 119 | 297 | VERTICAL |

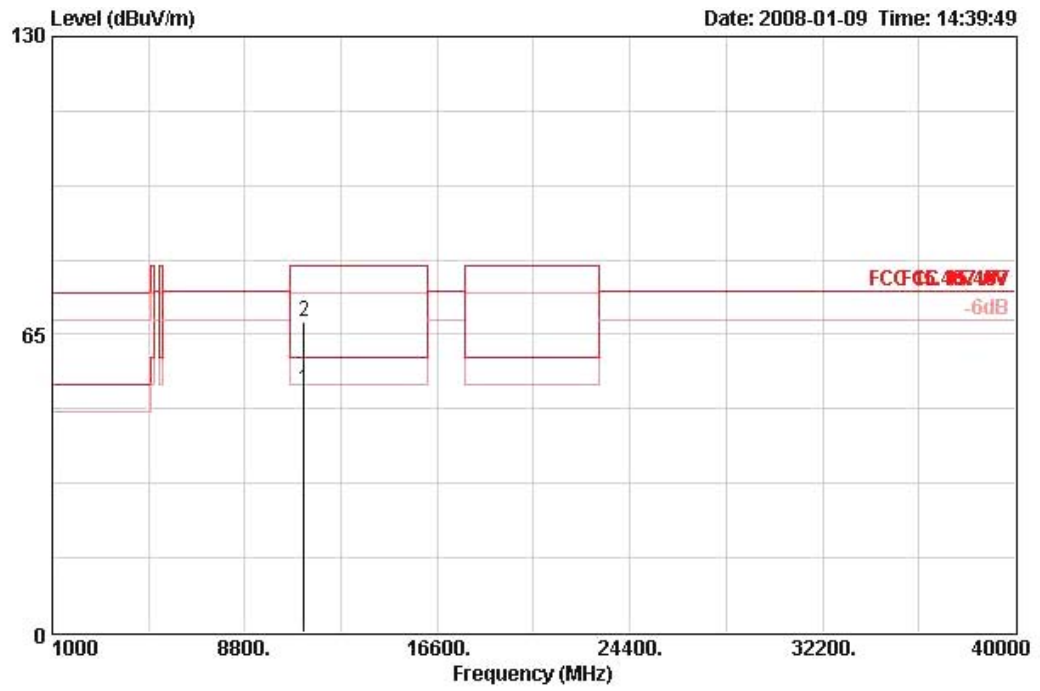
| | | | |
|---------------|----------|----------------|---|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 120 Ant. A + Ant. B |

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 | 11200.960 | 47.55 | -12.45 | 60.00 | 34.18 | 38.50 | 9.73 | 34.85 | AVERAGE | 122 | 166 | HORIZONTAL |
| 2 | 11200.960 | 62.60 | -17.40 | 80.00 | 49.22 | 38.50 | 9.73 | 34.85 | PEAK | 122 | 166 | HORIZONTAL |

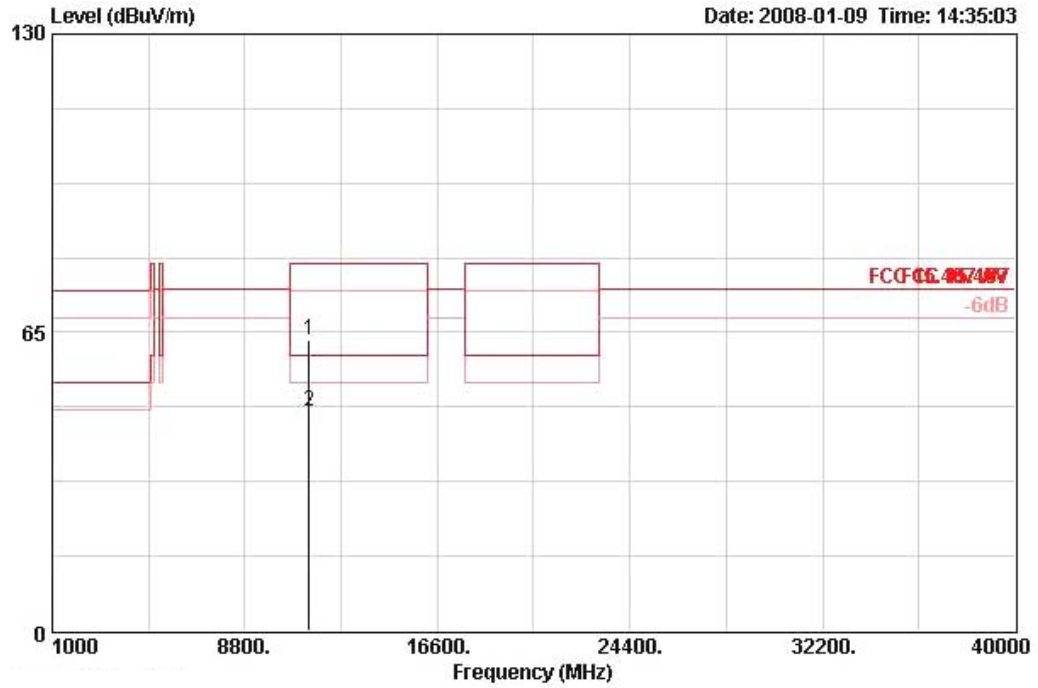
Vertical



| | 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 | 11198.720 | 52.94 | -7.06 | 60.00 | 39.57 | 38.50 | 9.73 | 34.85 | AVERAGE | 113 | 304 | VERTICAL |
| 2 | 11200.640 | 67.95 | -12.05 | 80.00 | 54.58 | 38.50 | 9.73 | 34.85 | PEAK | 113 | 304 | VERTICAL |

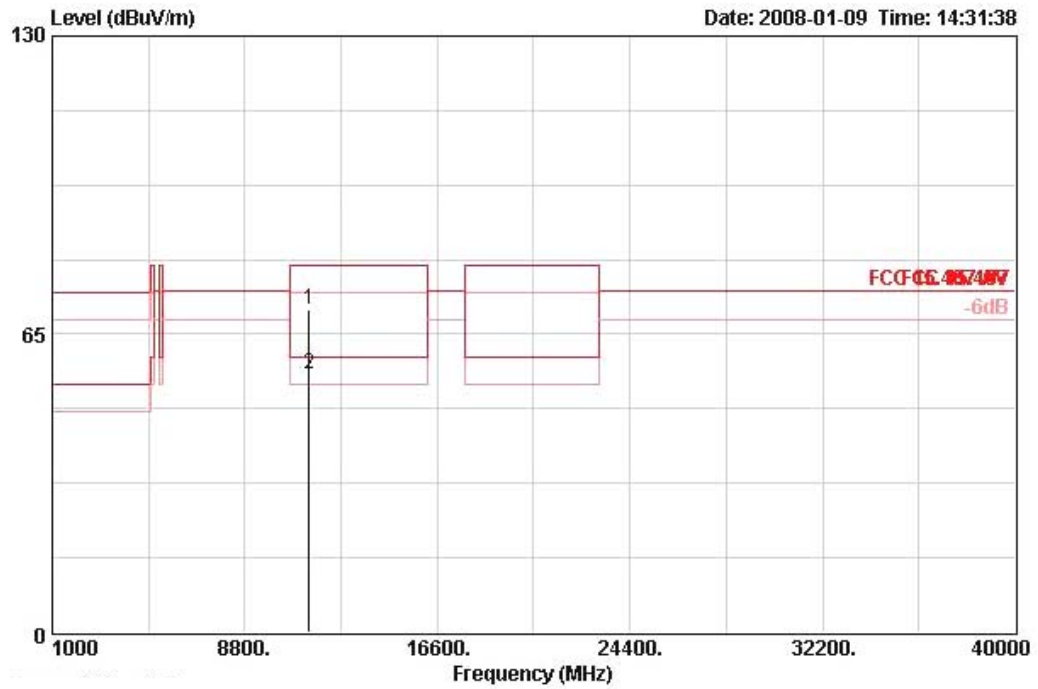
| | | | |
|---------------|----------|----------------|---|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 140 Ant. A + Ant. B |

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 ☺ | 11393.800 | 63.49 | -16.51 | 80.00 | 49.99 | 38.68 | 9.76 | 34.95 | PEAK | 131 | 131 | HORIZONTAL |
| 2 ☺ | 11398.040 | 47.92 | -12.08 | 60.00 | 34.41 | 38.70 | 9.76 | 34.95 | AVERAGE | 131 | 131 | HORIZONTAL |

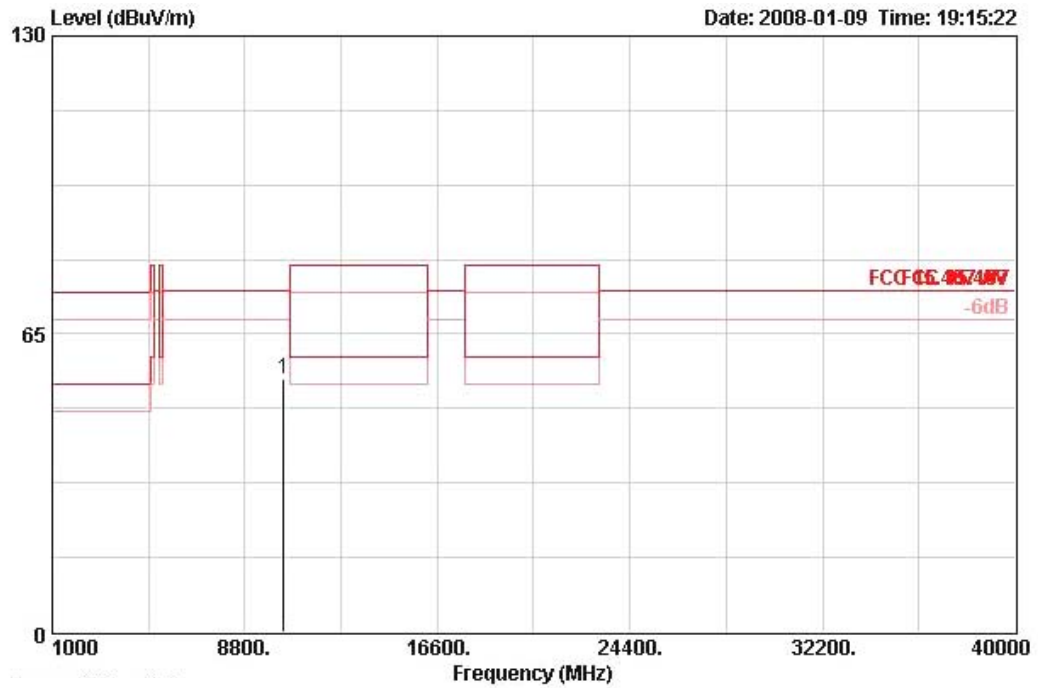
Vertical



| | 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 | 11393.680 | 70.33 | -9.67 | 80.00 | 56.83 | 38.68 | 9.76 | 34.95 | PEAK | 114 | 307 | VERTICAL |
| 2 | 11399.240 | 56.48 | -3.52 | 60.00 | 42.96 | 38.70 | 9.76 | 34.95 | AVERAGE | 114 | 307 | VERTICAL |

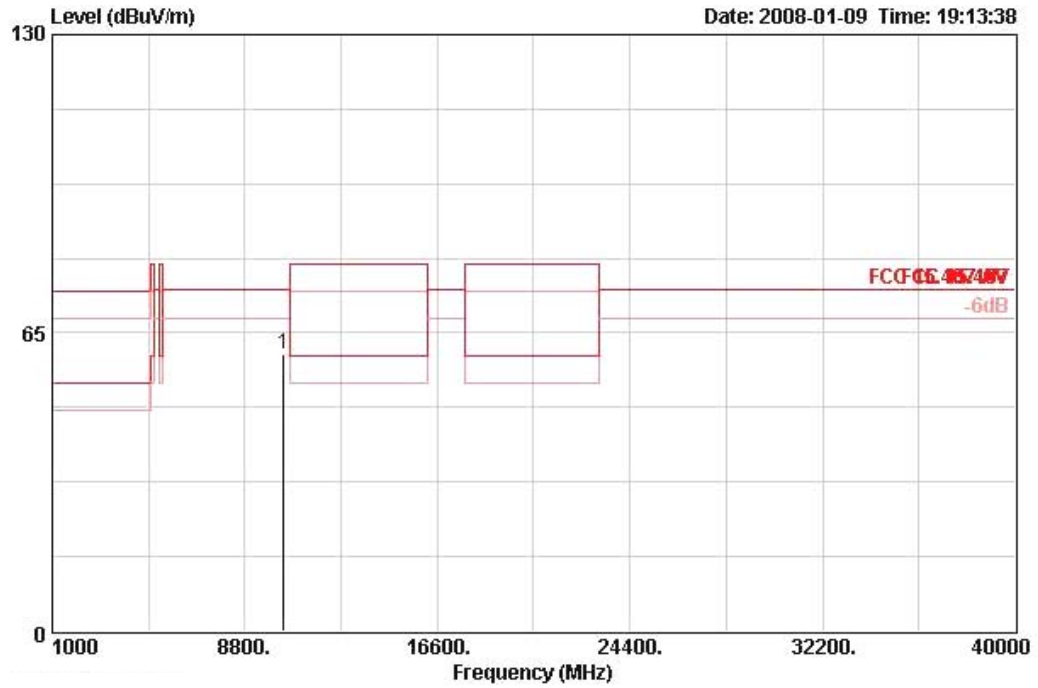
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 38 Ant. A + Ant. B |

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 | 10374.280 | 55.08 | -19.22 | 74.30 | 42.46 | 38.37 | 9.34 | 35.09 | PEAK | 117 | 360 | HORIZONTAL |

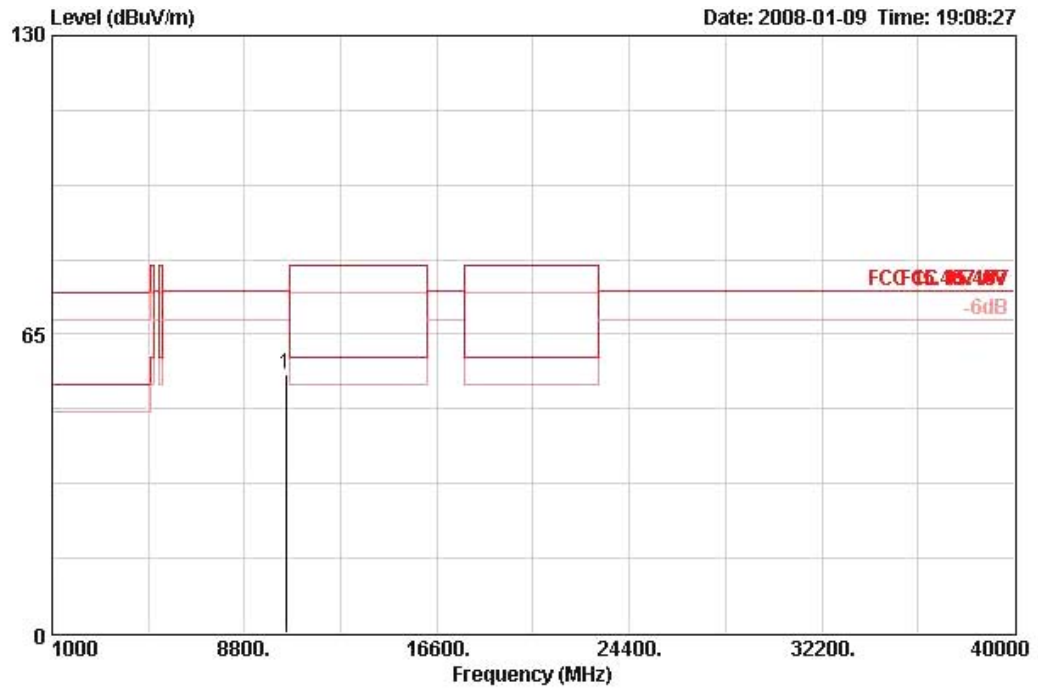
Vertical



| | 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 | 10374.280 | 60.37 | -13.93 | 74.30 | 47.74 | 38.37 | 9.34 | 35.09 | PEAK | 120 | 80 | VERTICAL |

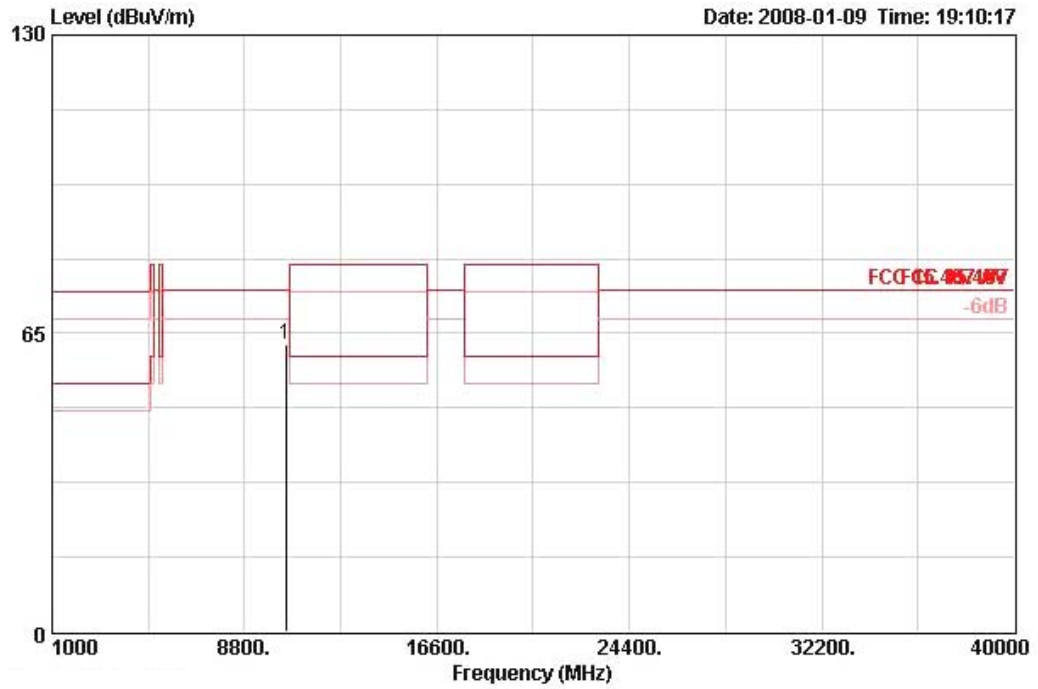
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 46 Ant. A + Ant. B |

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 | 10458.240 | 56.22 | -18.08 | 74.30 | 43.43 | 38.39 | 9.39 | 34.99 | PEAK | 142 | 10 | HORIZONTAL |

Vertical

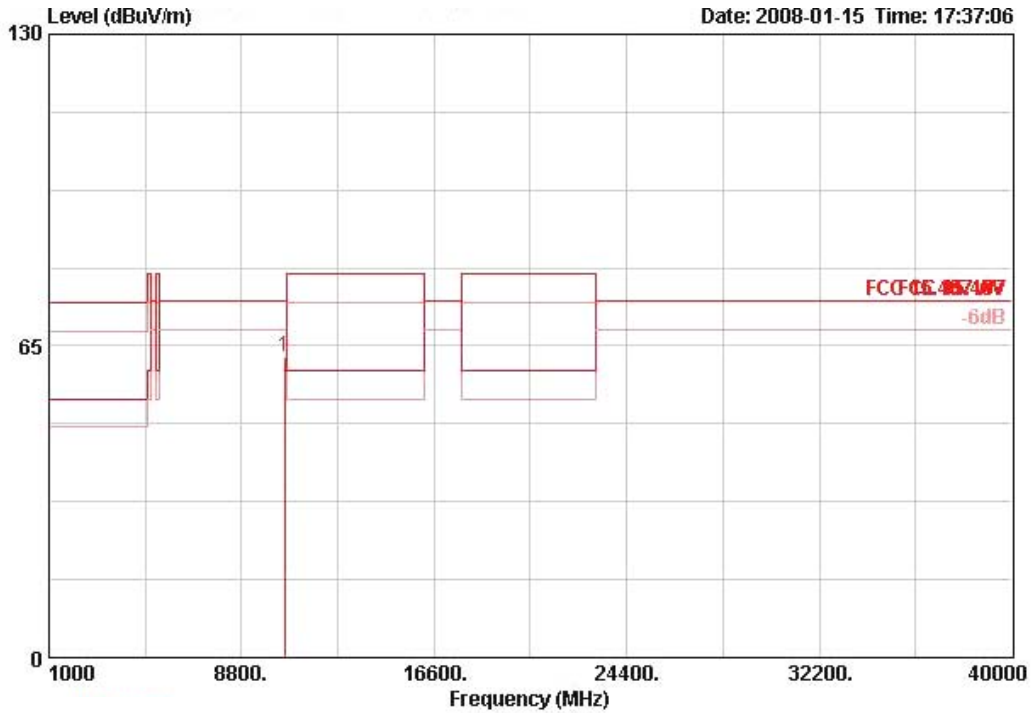


| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos | Pol/Phase |
|---|-----------|--------|------------|------------|------------|----------------|------------|---------------|--------|---------|-----------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm | deg | |
| 1 | 10458.240 | 62.55 | -11.75 | 74.30 | 49.76 | 38.39 | 9.39 | 34.99 | PERK | 117 | 66 | VERTICAL |



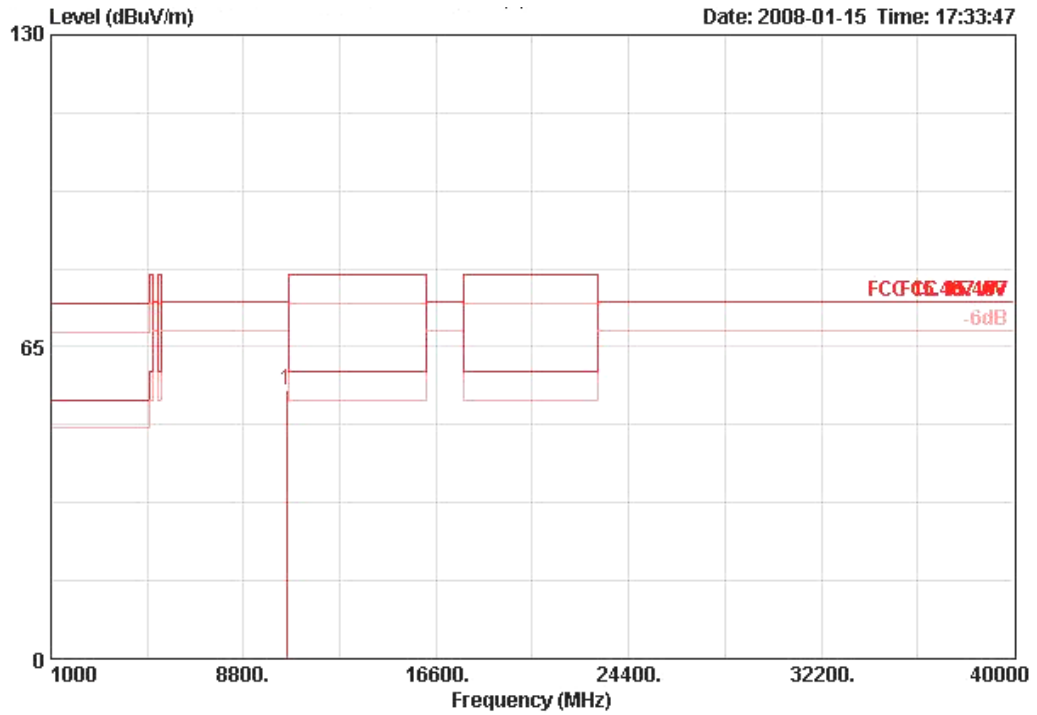
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 54 Ant. A + Ant. B |

Horizontal



| | 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 @ | 10540.200 | 62.66 | -11.64 | 74.30 | 45.30 | 39.97 | 11.99 | 34.60 | PEAK | 100 | 64 | HORIZONTAL |

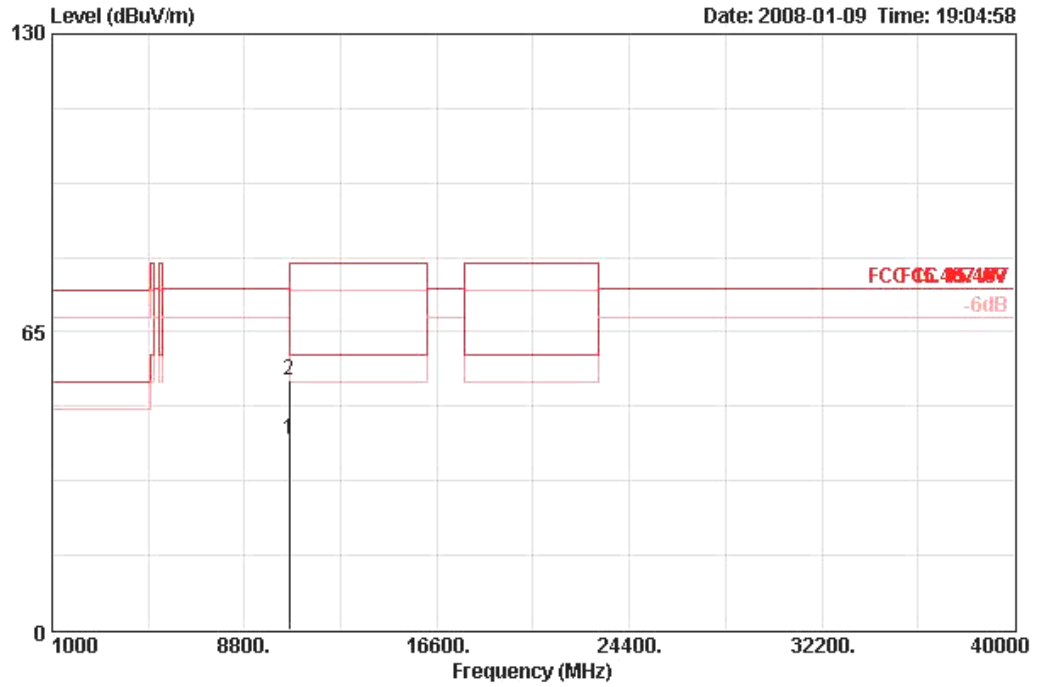
Vertical



| | 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 @ | 10540.370 | 55.99 | -18.31 | 74.30 | 38.63 | 39.97 | 11.99 | 34.60 | PEAK | 0 | 0 | HORIZONTAL |

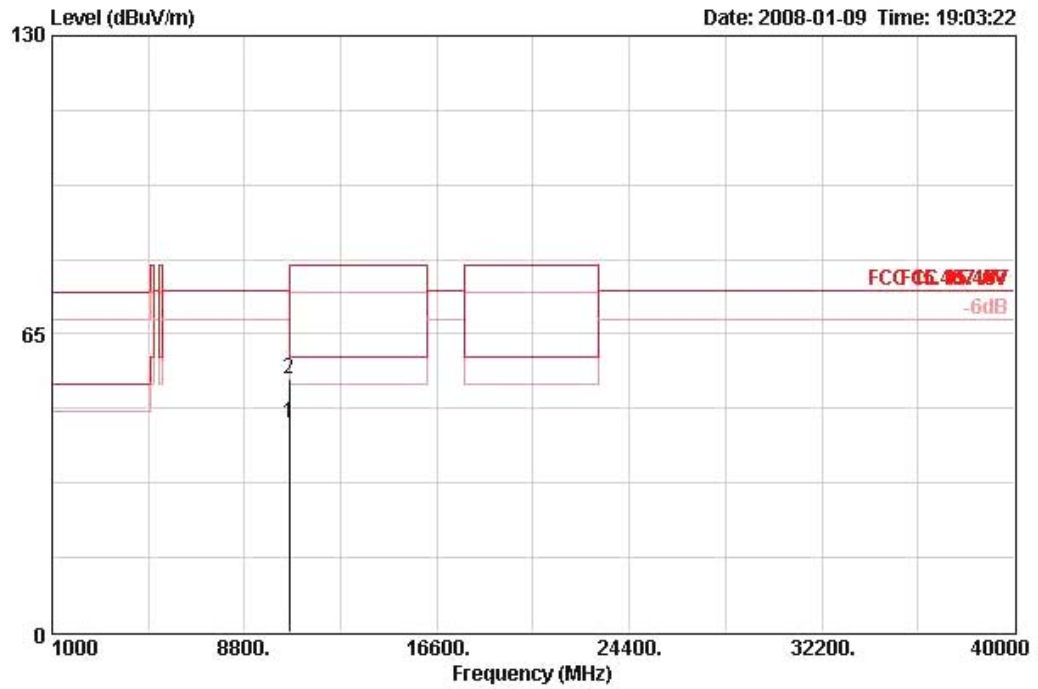
| | | | |
|---------------|----------|----------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 62 Ant. A + Ant. B |

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 | 10623.000 | 41.46 | -18.54 | 60.00 | 28.49 | 38.38 | 9.48 | 34.89 | AVERAGE | 113 | 360 | HORIZONTAL |
| 2 | 10625.080 | 54.43 | -25.57 | 80.00 | 41.46 | 38.38 | 9.48 | 34.89 | PEAK | 113 | 360 | HORIZONTAL |

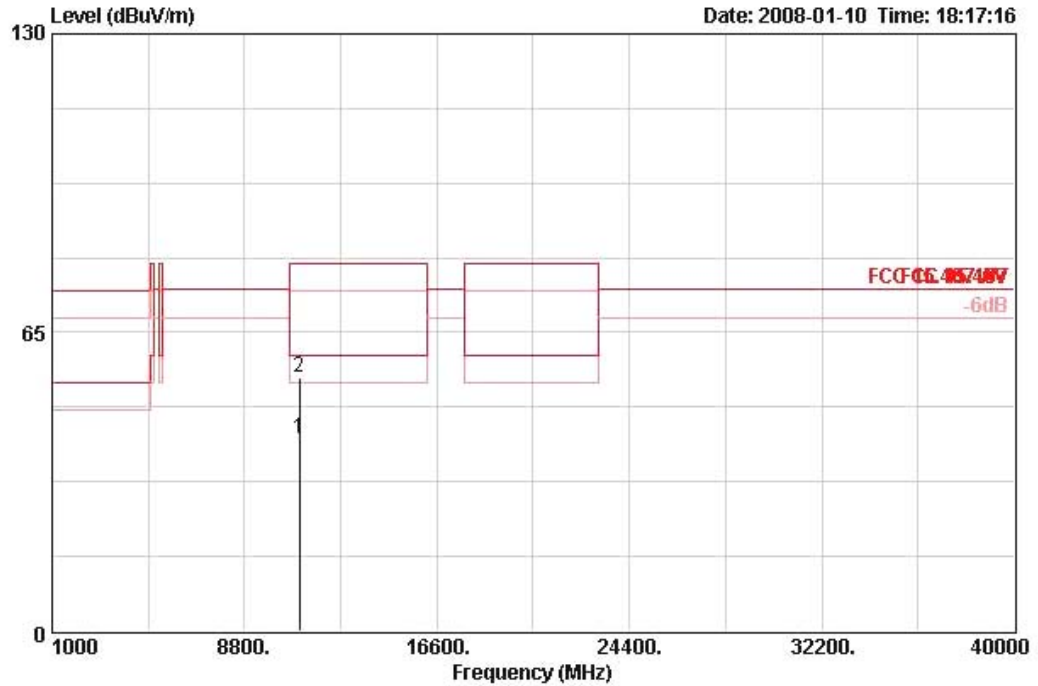
Vertical



| | 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 | 10618.160 | 45.70 | -14.30 | 60.00 | 32.73 | 38.38 | 9.48 | 34.89 | AVERAGE | 120 | 66 | VERTICAL |
| 2 | 10623.040 | 55.32 | -24.68 | 80.00 | 42.35 | 38.38 | 9.48 | 34.89 | PERK | 120 | 66 | VERTICAL |

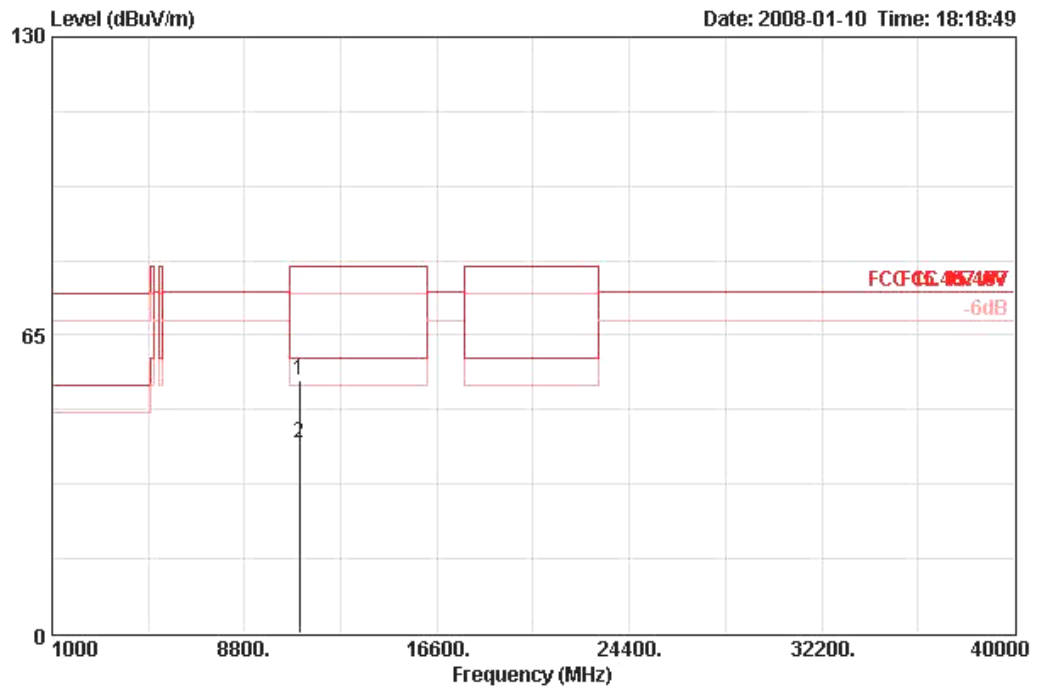
| | | | |
|---------------|----------|----------------|---|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 102 Ant. A + Ant. B |

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 | 11022.360 | 41.87 | -18.13 | 60.00 | 28.60 | 38.33 | 9.69 | 34.77 | AVERAGE | 133 | 5 | HORIZONTAL |
| 2 | 11022.450 | 55.25 | -24.75 | 80.00 | 41.99 | 38.33 | 9.69 | 34.77 | PEAK | 133 | 5 | HORIZONTAL |

Vertical

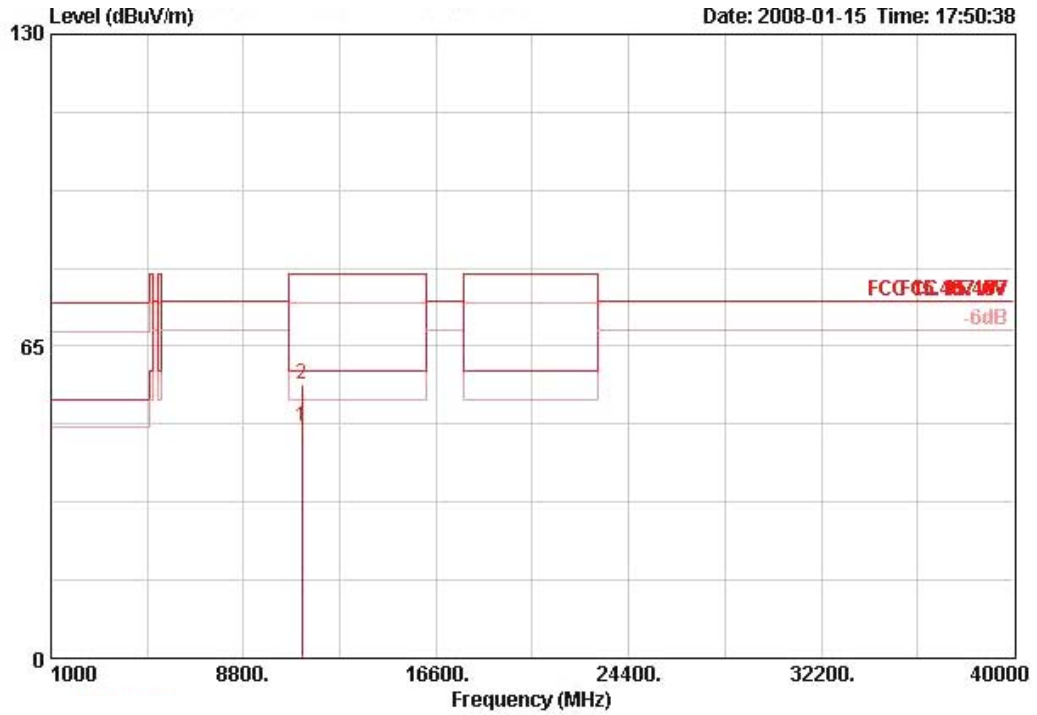


| | Freq | Level | Over Limit | Limit Line | Read Antenna | Cable | Preamp | Remark | Ant Pos | Table Pos | Pol/Phase | |
|---|-----------|--------|------------|------------|--------------|-------|--------|--------|---------|-----------|-----------|----------|
| | MHz | dBUV/m | dB | dBUV/m | dBuV | dB/m | dB | dB | cm | deg | | |
| 1 | 11019.370 | 55.23 | -24.77 | 80.00 | 41.99 | 38.32 | 9.69 | 34.77 | PEAK | 155 | 318 | VERTICAL |
| 2 | 11019.910 | 41.51 | -18.49 | 60.00 | 28.26 | 38.32 | 9.69 | 34.77 | AVERAGE | 155 | 318 | VERTICAL |



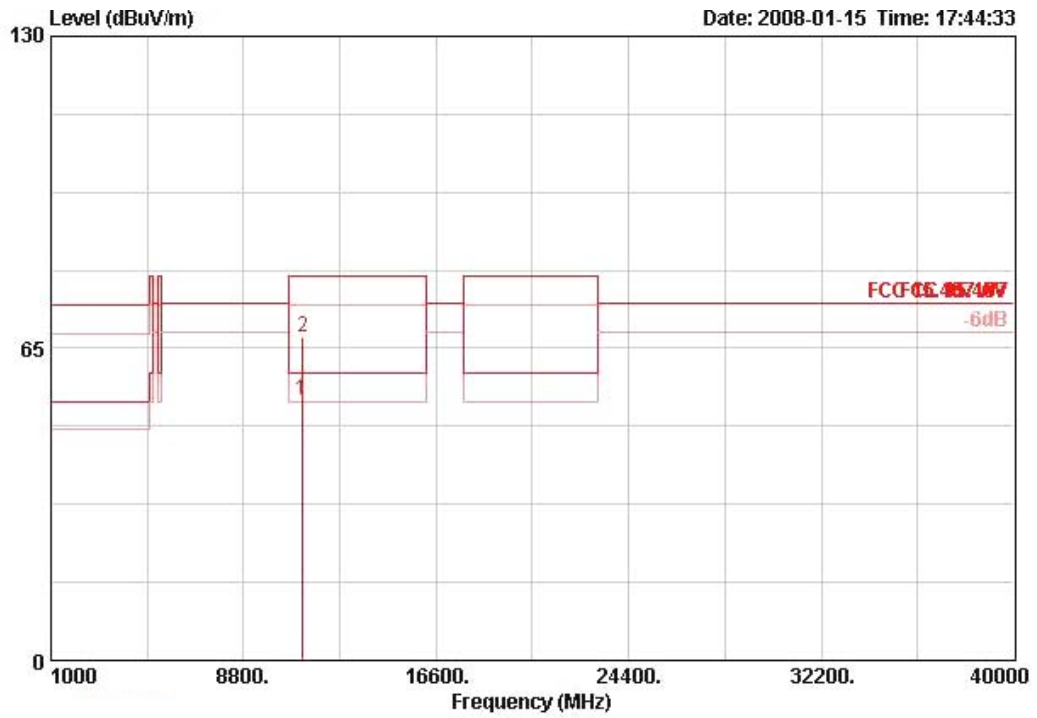
| | | | |
|---------------|----------|----------------|---|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 118 Ant. A + Ant. B |

Horizontal



| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamplifier | Remark | Ant Pos | Table Pos | Pol/Phase |
|-----|-----------|--------|------------|------------|-------------------|----------------|------------|--------------|---------|---------|-----------|------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm | deg | |
| 1 @ | 11179.500 | 48.13 | -11.87 | 60.00 | 31.51 | 39.50 | 11.96 | 34.84 | AVERAGE | 101 | 360 | HORIZONTAL |
| 2 | 11179.640 | 56.88 | -23.12 | 80.00 | 40.25 | 39.50 | 11.96 | 34.84 | PEAK | 101 | 360 | HORIZONTAL |

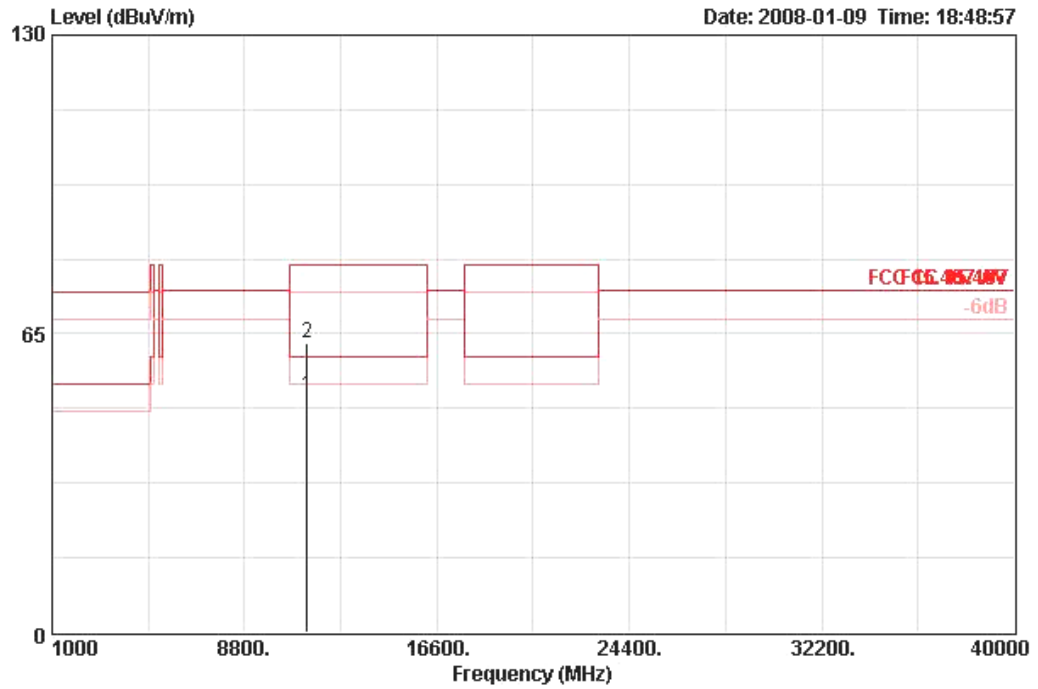
Vertical



| | 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 @ | 11179.500 | 54.07 | -5.93 | 60.00 | 37.44 | 39.50 | 11.96 | 34.84 | AVERAGE | 100 | 30 | VERTICAL |
| 2 @ | 11180.030 | 67.18 | -12.82 | 80.00 | 50.55 | 39.50 | 11.96 | 34.84 | PEAK | 100 | 30 | VERTICAL |

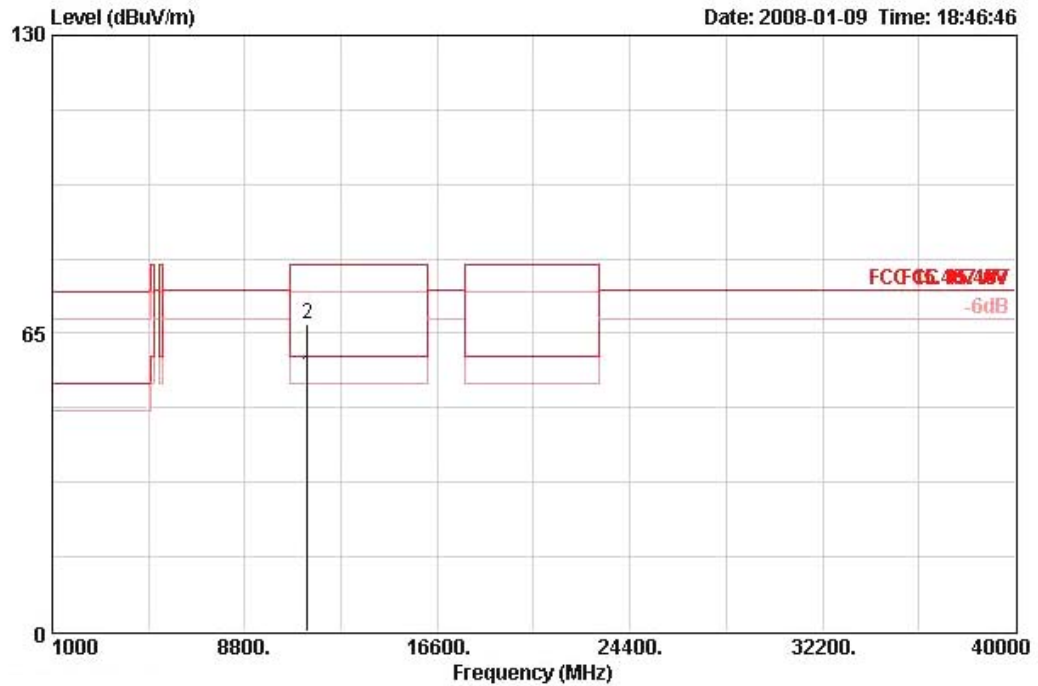
| | | | |
|---------------|----------|----------------|---|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 134 Ant. A + Ant. B |

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 ☺ | 11342.560 | 51.49 | -8.51 | 60.00 | 38.03 | 38.63 | 9.75 | 34.92 | AVERAGE | 132 | 57 | HORIZONTAL |
| 2 ☺ | 11344.320 | 62.87 | -17.13 | 80.00 | 49.40 | 38.63 | 9.75 | 34.92 | PEAK | 132 | 57 | 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 | 11346.960 | 56.04 | -3.96 | 60.00 | 42.56 | 38.65 | 9.75 | 34.92 | AVERAGE | 117 | 78 | VERTICAL |
| 2 | 11350.000 | 66.89 | -13.11 | 80.00 | 53.41 | 38.65 | 9.75 | 34.92 | PEAK | 117 | 78 | 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].

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 (microrvolts/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

| | | | |
|----------------------|----------|-----------------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Drafft n MCS8 20MHz Ch 36,40, 60, 64 Ant. A + Ant. B |

Channel 36

| | 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 ☺ | 5150.000 | 56.48 | -3.52 | 60.00 | 16.27 | 33.67 | 6.54 | 0.00 | AVERAGE | 100 | 135 | VERTICAL |
| 2 ☺ | 5150.000 | 67.47 | -12.53 | 80.00 | 27.26 | 33.67 | 6.54 | 0.00 | PEAK | 100 | 135 | VERTICAL |
| 3 ☺ | 5176.800 | 110.53 | | | 70.24 | 33.73 | 6.55 | 0.00 | PEAK | 100 | 135 | VERTICAL |
| 4 ☺ | 5187.400 | 100.02 | | | 59.73 | 33.73 | 6.55 | 0.00 | AVERAGE | 100 | 135 | VERTICAL |

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

Channel 52

| | 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 ☺ | 5150.000 | 56.22 | -3.78 | 60.00 | 16.01 | 33.67 | 6.54 | 0.00 | AVERAGE | 100 | 134 | VERTICAL |
| 2 ☺ | 5150.000 | 67.66 | -12.34 | 80.00 | 27.44 | 33.67 | 6.54 | 0.00 | PEAK | 100 | 134 | VERTICAL |
| 3 ☺ | 5192.600 | 99.27 | | | 58.96 | 33.76 | 6.55 | 0.00 | AVERAGE | 100 | 134 | VERTICAL |
| 4 ☺ | 5197.200 | 108.09 | | | 67.76 | 33.76 | 6.57 | 0.00 | PEAK | 100 | 134 | VERTICAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

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 ☺ | 5296.600 | 98.67 | | | 58.13 | 33.94 | 6.60 | 0.00 | AVERAGE | 100 | 128 | VERTICAL |
| 2 ☺ | 5301.200 | 108.51 | | | 67.95 | 33.94 | 6.62 | 0.00 | PEAK | 100 | 128 | VERTICAL |
| 3 ☺ | 5350.000 | 57.04 | -2.96 | 60.00 | 16.37 | 34.03 | 6.64 | 0.00 | AVERAGE | 100 | 128 | VERTICAL |
| 4 ☺ | 5350.000 | 68.25 | -11.75 | 80.00 | 27.58 | 34.03 | 6.64 | 0.00 | PEAK | 100 | 128 | 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 @ | 5312.800 | 106.13 | | | 65.54 | 33.97 | 6.62 | 0.00 | PEAK | 100 | 131 | VERTICAL |
| 2 @ | 5325.200 | 98.49 | | | 57.90 | 33.97 | 6.63 | 0.00 | AVERAGE | 100 | 131 | VERTICAL |
| 3 @ | 5350.000 | 57.24 | -2.76 | 60.00 | 16.57 | 34.03 | 6.64 | 0.00 | AVERAGE | 100 | 131 | VERTICAL |
| 4 @ | 5350.000 | 67.37 | -12.63 | 80.00 | 26.70 | 34.03 | 6.64 | 0.00 | PEAK | 100 | 131 | VERTICAL |

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



| | | | |
|----------------------|----------|-----------------------|--|
| Temperature | 24°C | Humidity | 56% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 20MHz Ch 100, 140 Ant. A + Ant. B |

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 @ | 5460.000 | 56.86 | -3.14 | 60.00 | 15.96 | 34.21 | 6.69 | 0.00 | AVERAGE | 100 | 184 | VERTICAL |
| 2 @ | 5460.000 | 67.91 | -12.09 | 80.00 | 27.01 | 34.21 | 6.69 | 0.00 | PEAK | 100 | 184 | VERTICAL |
| 3 @ | 5470.000 | 68.07 | -6.23 | 74.30 | 27.14 | 34.24 | 6.69 | 0.00 | PEAK | 100 | 184 | VERTICAL |
| 4 @ | 5498.600 | 109.50 | | | 68.50 | 34.30 | 6.70 | 0.00 | PEAK | 100 | 184 | VERTICAL |
| 5 @ | 5504.000 | 99.55 | | | 58.54 | 34.30 | 6.71 | 0.00 | AVERAGE | 100 | 184 | 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 @ | 5692.600 | 101.81 | | | 60.66 | 34.34 | 6.81 | 0.00 | AVERAGE | 129 | 192 | VERTICAL |
| 2 @ | 5695.600 | 111.99 | | | 70.84 | 34.34 | 6.81 | 0.00 | PEAK | 129 | 192 | VERTICAL |
| 3 @ | 5725.000 | 74.17 | -0.13 | 74.30 | 33.00 | 34.34 | 6.82 | 0.00 | PEAK | 129 | 192 | VERTICAL |

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

| | | | |
|----------------------|----------|-----------------------|--|
| Temperature | 20°C | Humidity | 70% |
| Test Engineer | Jax Chen | Configurations | Draft n MCS8 40MHz Ch 38, 46, 54, 62 Ant. A + Ant. B |

Channel 38

| | 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 @ | 5144.800 | 73.19 | -6.81 | 80.00 | 32.97 | 33.67 | 6.54 | 0.00 | PEAK | 146 | 37 | HORIZONTAL |
| 2 @ | 5150.000 | 58.93 | -1.07 | 60.00 | 18.72 | 33.67 | 6.54 | 0.00 | AVERAGE | 146 | 37 | HORIZONTAL |
| 3 @ | 5174.800 | 97.20 | | | 56.91 | 33.73 | 6.55 | 0.00 | AVERAGE | 146 | 37 | HORIZONTAL |
| 4 @ | 5176.400 | 108.06 | | | 67.77 | 33.73 | 6.55 | 0.00 | PEAK | 146 | 37 | HORIZONTAL |

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

Channel 46

| | 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 @ | 5149.600 | 67.15 | -12.85 | 80.00 | 26.93 | 33.67 | 6.54 | 0.00 | PEAK | 100 | 0 | HORIZONTAL |
| 2 @ | 5150.000 | 56.00 | -4.00 | 60.00 | 15.79 | 33.67 | 6.54 | 0.00 | AVERAGE | 100 | 0 | HORIZONTAL |
| 3 @ | 5239.600 | 90.49 | | | 50.09 | 33.82 | 6.58 | 0.00 | AVERAGE | 100 | 0 | HORIZONTAL |
| 4 @ | 5240.800 | 100.82 | | | 60.42 | 33.82 | 6.58 | 0.00 | PEAK | 100 | 0 | HORIZONTAL |

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

Channel 54

| | 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 @ | 5282.000 | 98.76 | | | 56.26 | 34.27 | 8.23 | 0.00 | AVERAGE | 100 | 360 | VERTICAL |
| 2 @ | 5282.400 | 107.22 | | | 64.72 | 34.27 | 8.23 | 0.00 | PEAK | 100 | 360 | VERTICAL |
| 3 @ | 5350.000 | 58.73 | -1.27 | 60.00 | 16.05 | 34.40 | 8.27 | 0.00 | AVERAGE | 100 | 360 | VERTICAL |
| 4 @ | 5351.600 | 70.28 | -9.72 | 80.00 | 27.61 | 34.40 | 8.27 | 0.00 | PEAK | 100 | 360 | VERTICAL |

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

Channel 62

| | 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 @ | 5300.400 | 100.84 | | | 60.29 | 33.94 | 6.62 | 0.00 | AVERAGE | 143 | 14 | HORIZONTAL |
| 2 @ | 5313.600 | 111.16 | | | 70.58 | 33.97 | 6.62 | 0.00 | PEAK | 143 | 14 | HORIZONTAL |
| 3 @ | 5350.000 | 59.46 | -0.54 | 60.00 | 18.79 | 34.03 | 6.64 | 0.00 | AVERAGE | 143 | 14 | HORIZONTAL |
| 4 @ | 5353.600 | 73.00 | -7.00 | 80.00 | 32.33 | 34.03 | 6.64 | 0.00 | PEAK | 143 | 14 | HORIZONTAL |

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

| | | | |
|----------------------|-------------|-----------------------|---|
| Temperature | 20°C | Humidity | 70% |
| Test Engineer | Jax Chen | Configurations | Draff n MCS8 40MHz Ch 102, 118, 134 Ant. A + Ant. B |

Channel 102

| | 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 @ | 5434.400 | 69.74 | -10.26 | 80.00 | 28.88 | 34.18 | 6.68 | 0.00 | PEAK | 126 | 201 | VERTICAL |
| 2 @ | 5460.000 | 57.15 | -2.85 | 60.00 | 16.26 | 34.21 | 6.69 | 0.00 | AVERAGE | 126 | 201 | VERTICAL |
| 3 @ | 5469.200 | 70.56 | -3.74 | 74.30 | 29.63 | 34.24 | 6.69 | 0.00 | PEAK | 126 | 201 | VERTICAL |
| 4 @ | 5499.200 | 96.55 | | | 55.55 | 34.30 | 6.70 | 0.00 | AVERAGE | 126 | 201 | VERTICAL |
| 5 @ | 5500.000 | 107.88 | | | 66.88 | 34.30 | 6.70 | 0.00 | PEAK | 126 | 201 | VERTICAL |

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

Channel 118

| | 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 @ | 5595.600 | 98.94 | | | 55.79 | 34.77 | 8.38 | 0.00 | AVERAGE | 116 | 0 | HORIZONTAL |
| 2 @ | 5598.000 | 110.44 | | | 67.29 | 34.77 | 8.38 | 0.00 | PEAK | 116 | 0 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5590 MHz.

Channel 134

| | 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 @ | 5666.800 | 114.31 | | | 73.18 | 34.33 | 6.79 | 0.00 | AVERAGE | 147 | 11 | HORIZONTAL |
| 2 @ | 5667.200 | 104.34 | | | 63.21 | 34.33 | 6.79 | 0.00 | AVERAGE | 147 | 11 | HORIZONTAL |
| 3 @ | 5726.600 | 72.37 | -1.93 | 74.30 | 31.20 | 34.34 | 6.82 | 0.00 | PEAK | 147 | 11 | HORIZONTAL |

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

Note:

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

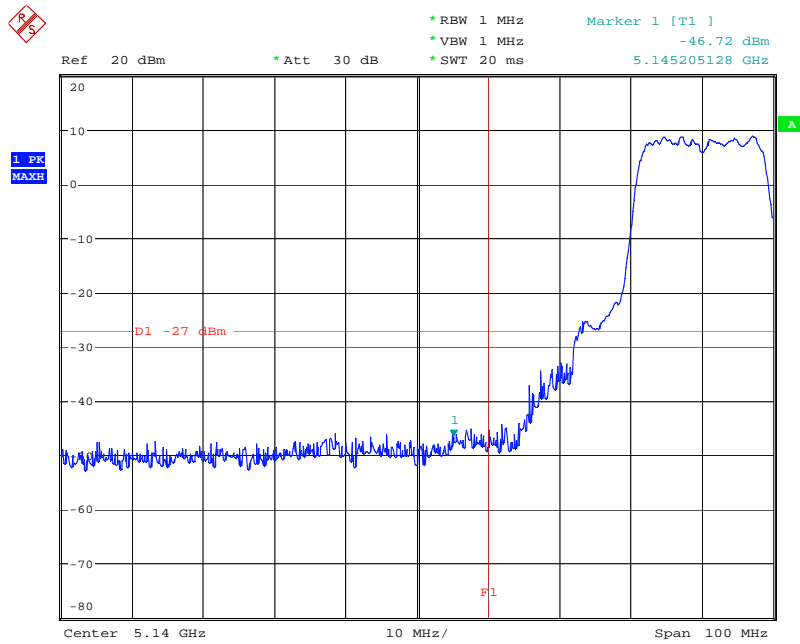
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

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

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

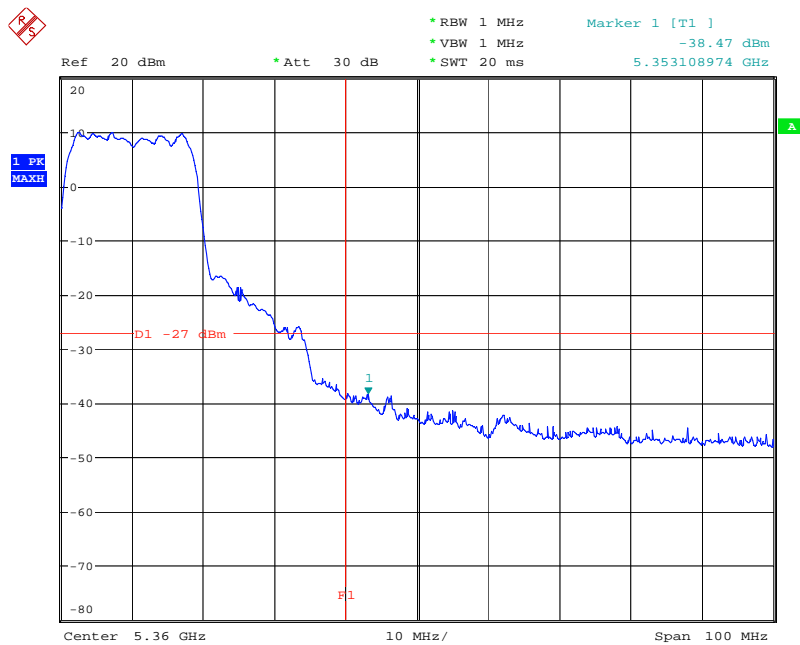
Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

EIRP Emission in Band on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5180 MHz



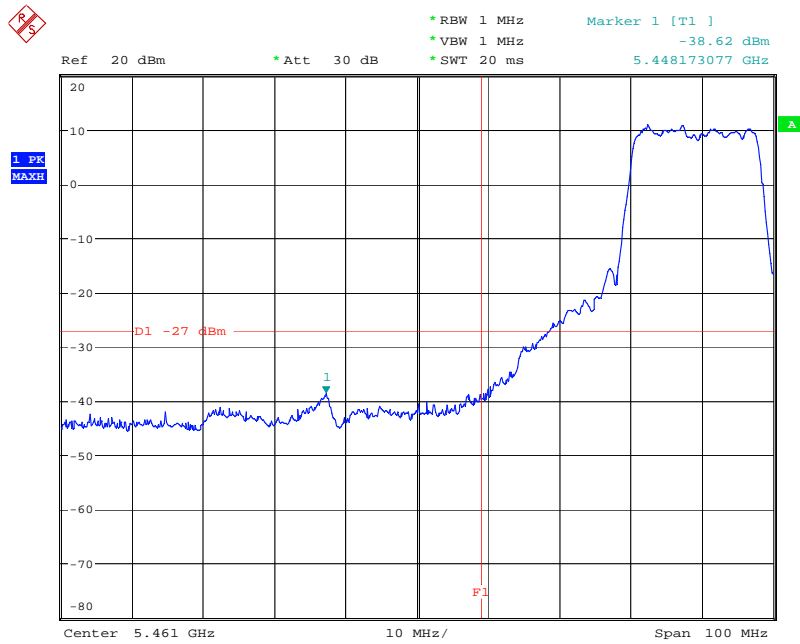
Date: 2.FEB.2008 10:57:25

EIRP Emission in Band on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5320 MHz



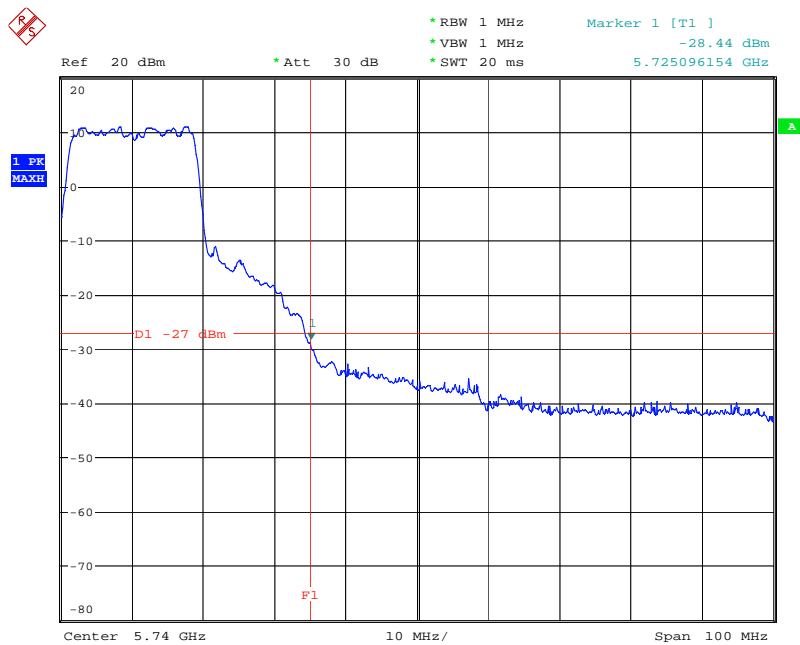
Date: 2.FEB.2008 11:09:32

EIRP Emission in Band on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5500 MHz



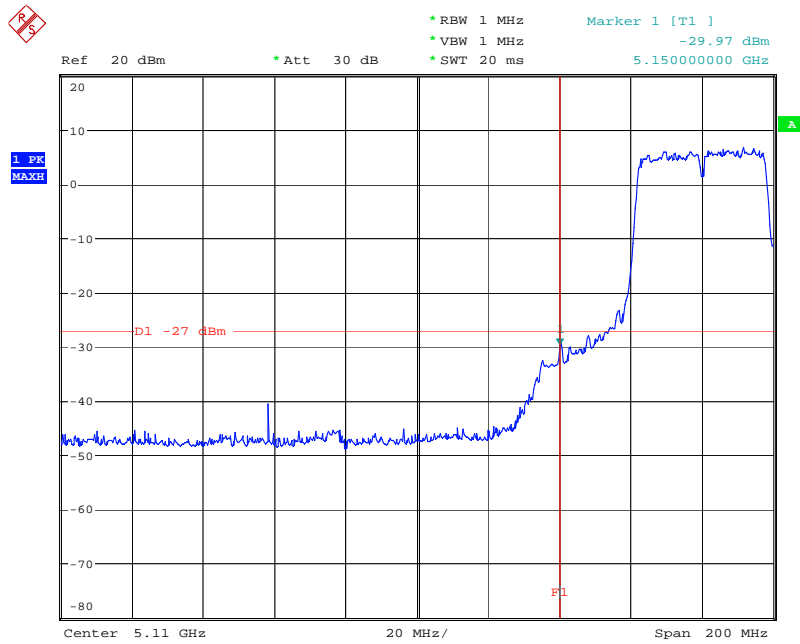
Date: 2.FEB.2008 11:26:02

EIRP Emission in Band on Configuration Drafft n MCS8 20MHz Ant. A + Ant. B / 5700 MHz



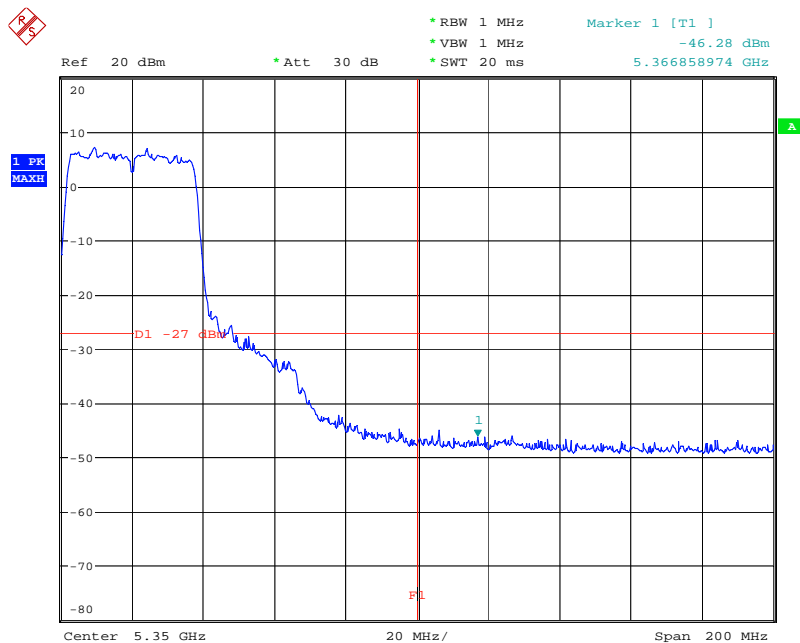
Date: 2.FEB.2008 12:22:49

EIRP Emission in Band on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5190 MHz



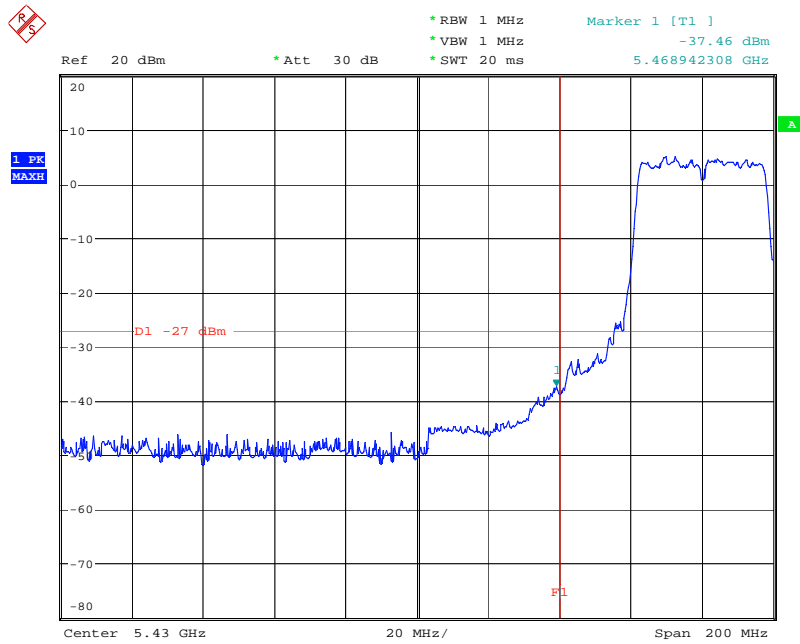
Date: 2.FEB.2008 10:31:06

EIRP Emission in Band on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5270 MHz



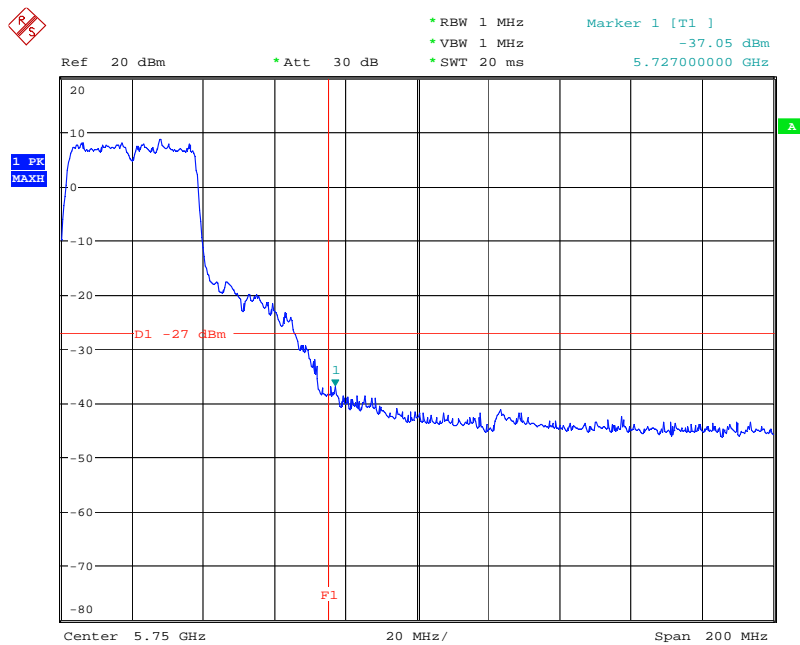
Date: 2.FEB.2008 10:37:49

EIRP Emission in Band on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5510 MHz



Date: 2.FEB.2008 10:44:14

EIRP Emission in Band on Configuration Drafft n MCS8 40MHz Ant. A + Ant. B / 5670MHz



Date: 2.FEB.2008 10:48:46

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

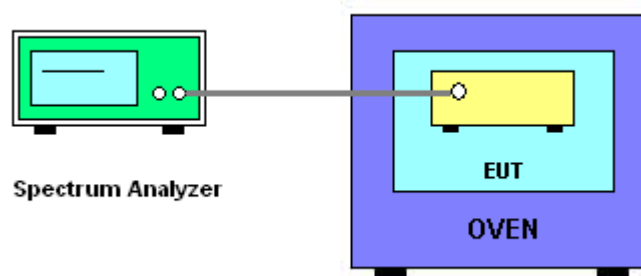
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| 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 $-30^\circ\text{C} \sim 50^\circ\text{C}$.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

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

4.8.7. Test Result of Frequency Stability

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) |
|----------------------|-----------------------------|
| (V) | 5260 |
| 126.50 | 5260.009300 |
| 110.00 | 5260.023500 |
| 93.50 | 5259.993200 |
| Max. Deviation (MHz) | 0.023500 |
| Max. Deviation (ppm) | 4.47 |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) |
|----------------------|-----------------------------|
| (°C) | 5260 |
| -30 | 5260.046300 |
| -20 | 5260.050570 |
| -10 | 5260.045700 |
| 0 | 5260.014100 |
| 10 | 5260.012900 |
| 20 | 5259.983500 |
| 30 | 5259.965300 |
| 40 | 5259.961200 |
| 50 | 5259.955600 |
| Max. Deviation (MHz) | 0.050570 |
| Max. Deviation (ppm) | 9.61 |

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, 2007 | Conduction (CO04-HY) |
| LISN | MessTec | NNB-2/16Z | 99079 | 9kHz – 30MHz | Mar. 31, 2007 | Conduction (CO04-HY) |
| LISN (Support Unit) | EMCO | 3810/2NM | 9703-1839 | 9kHz – 30MHz | Mar. 22, 2007 | Conduction (CO04-HY) |
| RF Cable-CON | UTIFLEX | 3102-26886-4 | CB049 | 9kHz – 30MHz | Apr. 20, 2007 | Conduction (CO04-HY) |
| ISN | SCHAFFNER | ISN T400 | 21653 | 9kHz – 30MHz | Mar. 27, 2007 | 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, 2007 | 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 | Jun. 07, 2007 | 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 | 100305 | 9 kHz - 40 GHz | Sep. 27, 2007 | Radiation (03CH03-HY) |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9 kHz - 30 MHz | May 23, 2006* | Radiation (03CH03-HY) |
| Bilog Antenna | SCHAFFNER | CBL 6112D | 22237 | 30 MHz – 1 GHz | Jul. 21, 2007 | Radiation (03CH03-HY) |
| Horn Antenna | EMCO | 3115 | 6741 | 1GHz ~ 18GHz | May 04, 2007 | 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 | Jun. 27, 2007 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z51 | 100458 | DC ~ 30GHz | Jun. 27, 2007 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z32 | 100057 | 30MHz ~ 6GHz | Jun. 27, 2007 | Conducted (TH01-HY) |
| AC Power Source | HPC | HPA-500W | HPA-9100024 | AC 0 ~ 300V | May 04, 2007* | Conducted (TH01-HY) |
| DC Power Source | G.W. | GPC-6030D | C671845 | DC 1V ~ 60V | Mar. 03, 2007 | Conducted (TH01-HY) |
| Temp. and Humidity Chamber | KSON | THS-C3L | 612 | N/A | Jan. 14, 2008 | Conducted (TH01-HY) |
| RF CABLE-1m | Jye Bao | RG142 | CB034-1m | 20MHz ~ 7GHz | Jan. 04, 2008 | Conducted (TH01-HY) |
| RF CABLE-2m | Jye Bao | RG142 | CB035-2m | 20MHz ~ 1GHz | Jan. 04, 2008 | 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. 07, 2007 | Conducted (TH01-HY) |

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

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

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. : LI190-070110

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

P1, total 9 pages

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