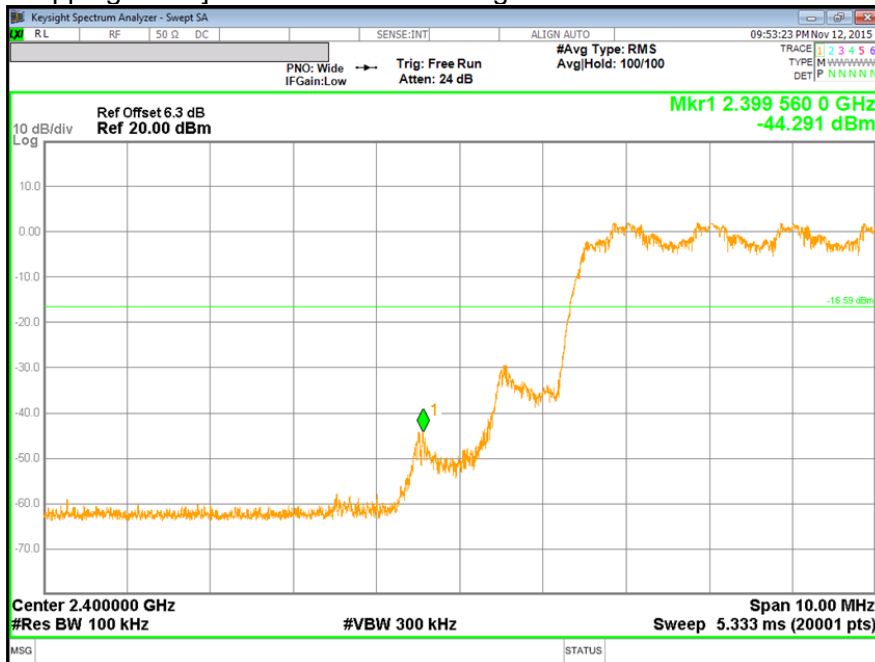
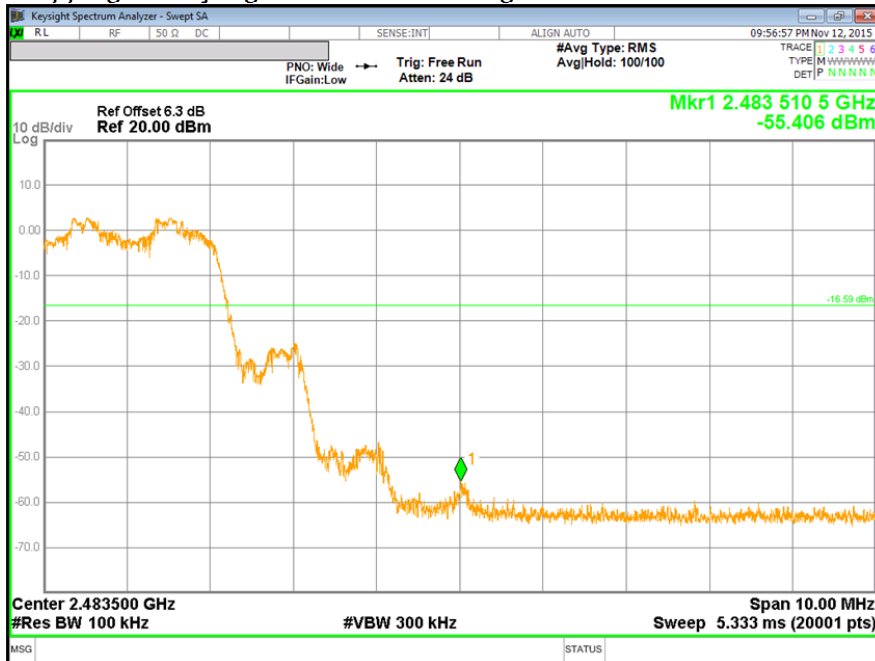


BandEdge Emission at PI/4-DQPSK Hopping Mode

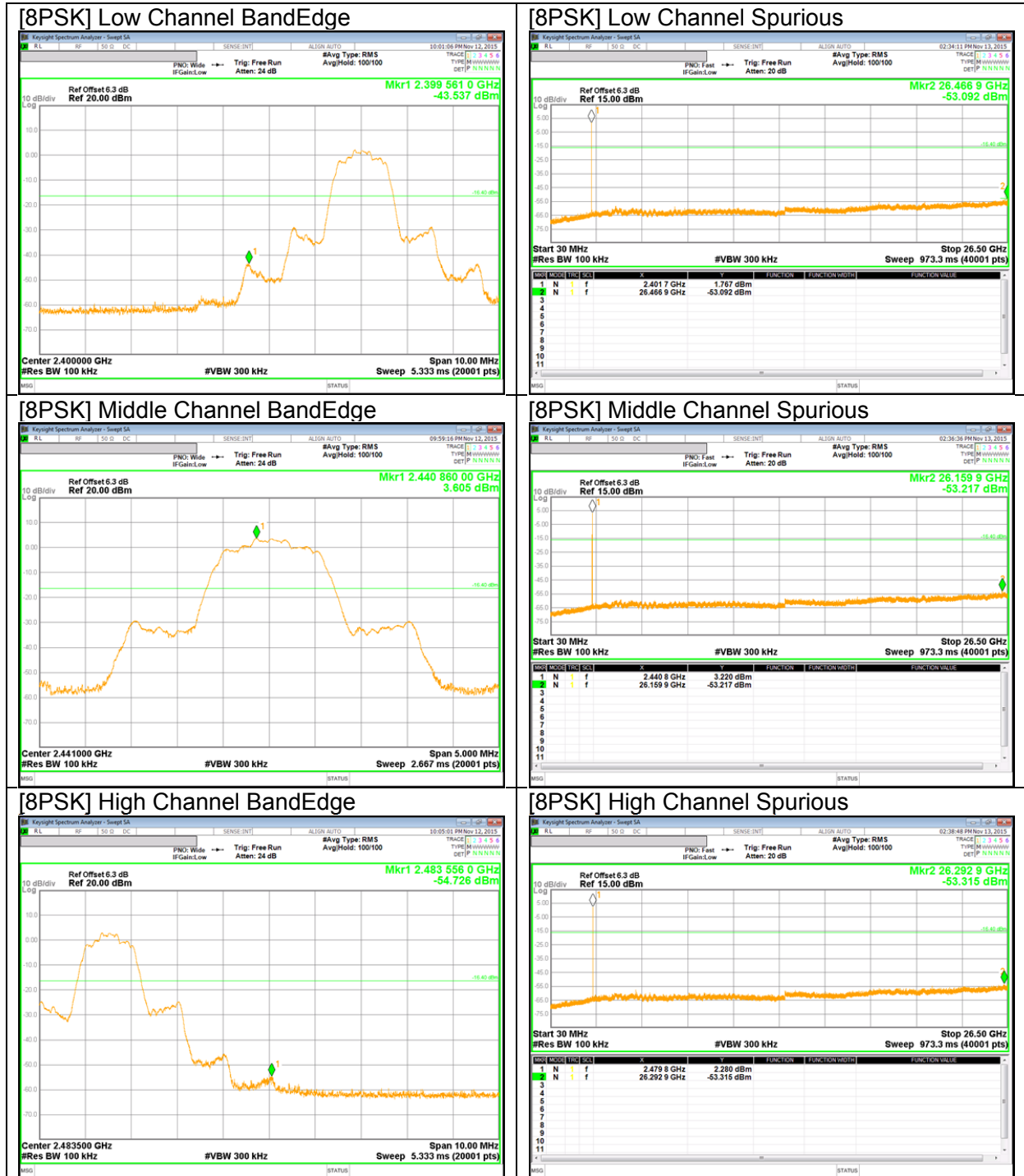
[PI/4-DQPSK Hopping Mode] Low Channel BandEdge



[PI/4-DQPSK Hopping Mode] High Channel BandEdge

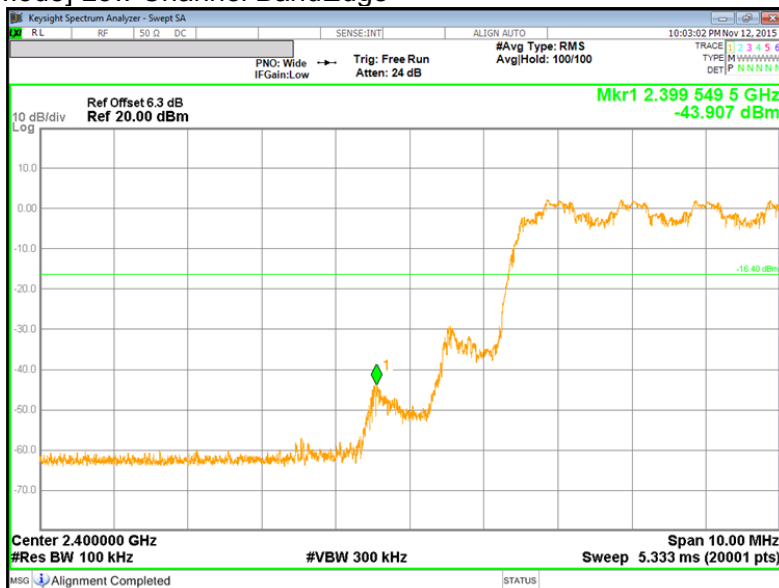


8PSK Mode

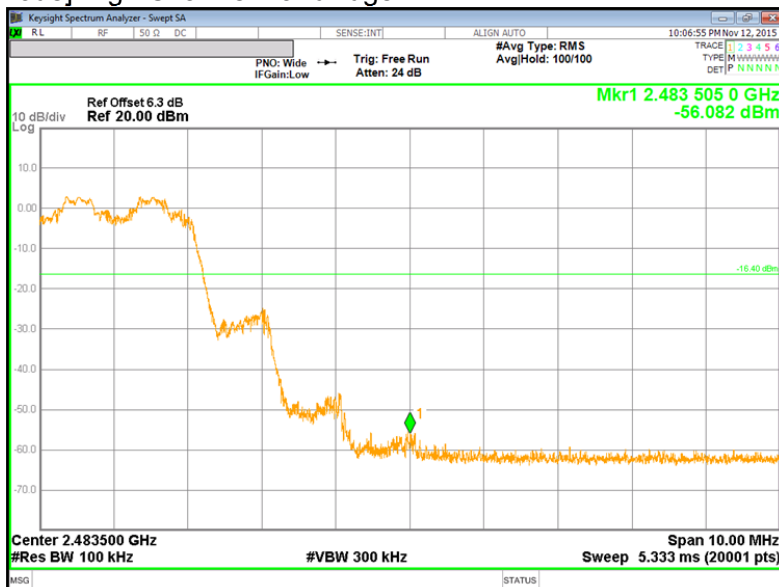


BandEdge Emission at 8PSK Hopping Mode

[8PSK Hopping Mode] Low Channel BandEdge



[8PSK Hopping Mode] High Channel BandEdge



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement.

$GFSK = 1/T = 1 / 0.0029S = 350Hz.$

The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

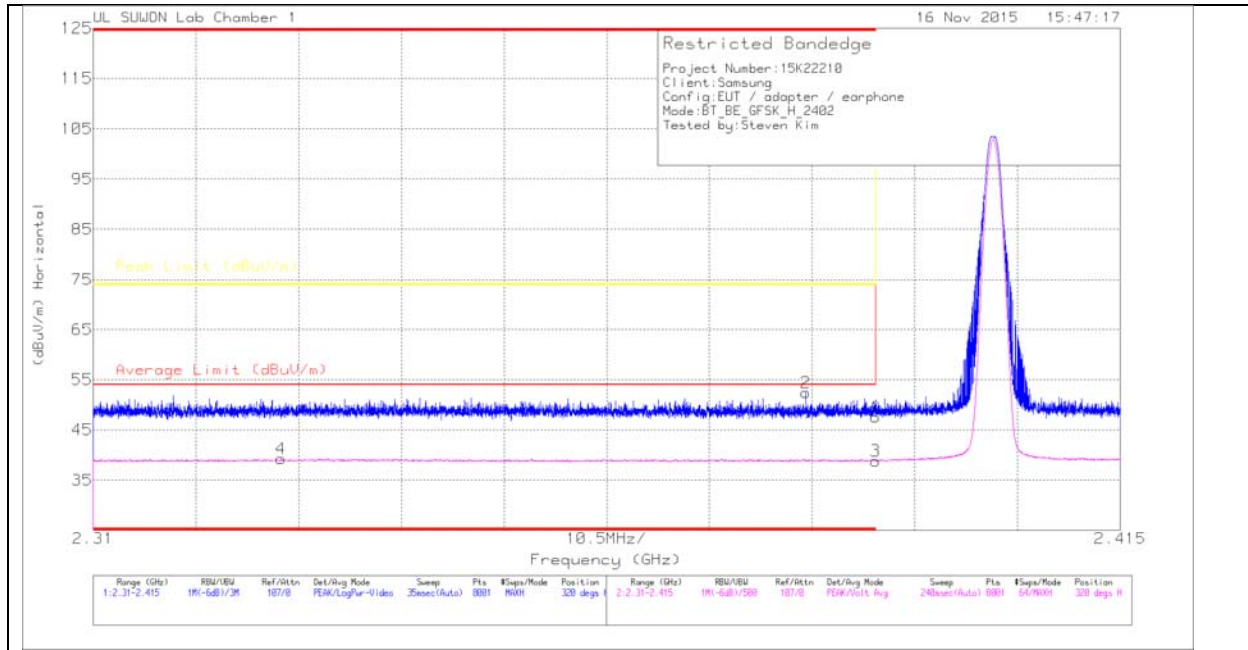
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

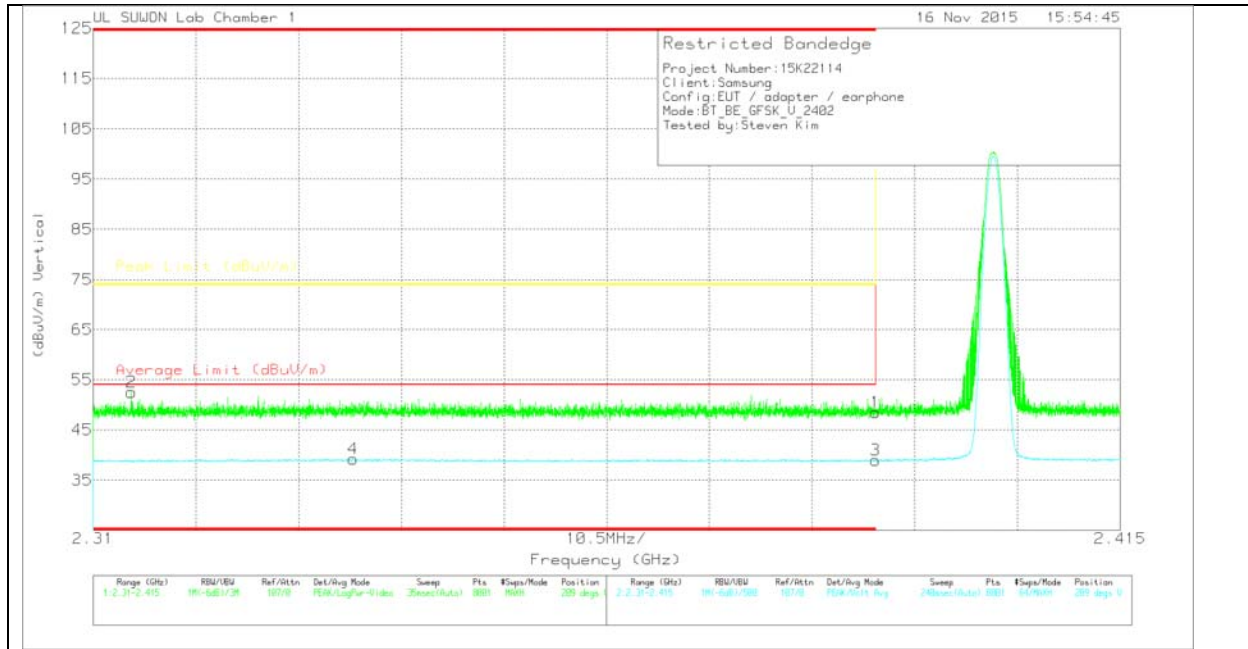
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168 717)_150619 | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 44.16 | Pk | 31.8 | -28.4 | 0 | 47.56 | - | - | 74 | -26.44 | 320 | 105 | H |
| 2 | * 2.383 | 49.14 | Pk | 31.8 | -28.5 | 0 | 52.44 | - | - | 74 | -21.56 | 320 | 105 | H |
| 3 | * 2.39 | 35.44 | V1TV | 31.8 | -28.4 | 0 | 38.84 | 54 | -15.16 | - | - | 320 | 105 | H |
| 4 | * 2.329 | 36.06 | V1TV | 31.7 | -28.5 | 0 | 39.26 | 54 | -14.74 | - | - | 320 | 105 | H |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

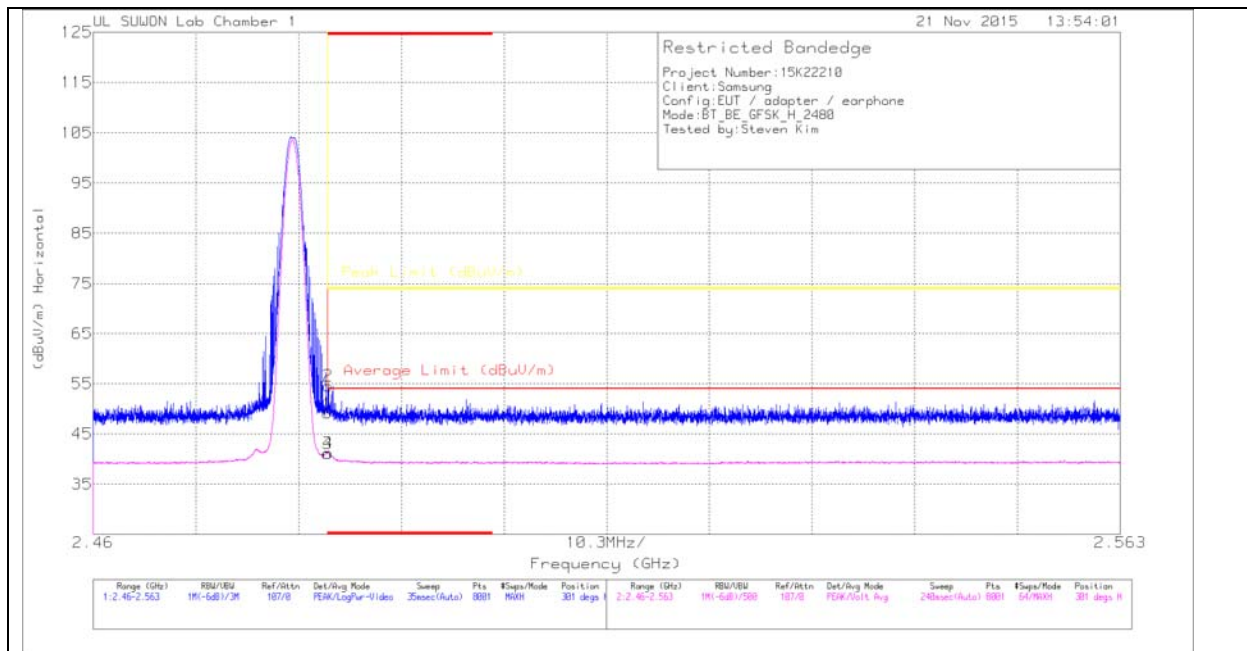
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168 717_150619) | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 45.1 | Pk | 31.8 | -28.4 | 0 | 48.5 | - | - | 74 | -25.5 | 209 | 383 | V |
| 2 | * 2.314 | 49.31 | Pk | 31.7 | -28.5 | 0 | 52.51 | - | - | 74 | -21.49 | 209 | 383 | V |
| 3 | * 2.39 | 35.59 | V1TV | 31.8 | -28.4 | 0 | 38.99 | 54 | -15.01 | - | - | 209 | 383 | V |
| 4 | * 2.337 | 36.03 | V1TV | 31.7 | -28.5 | 0 | 39.23 | 54 | -14.77 | - | - | 209 | 383 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

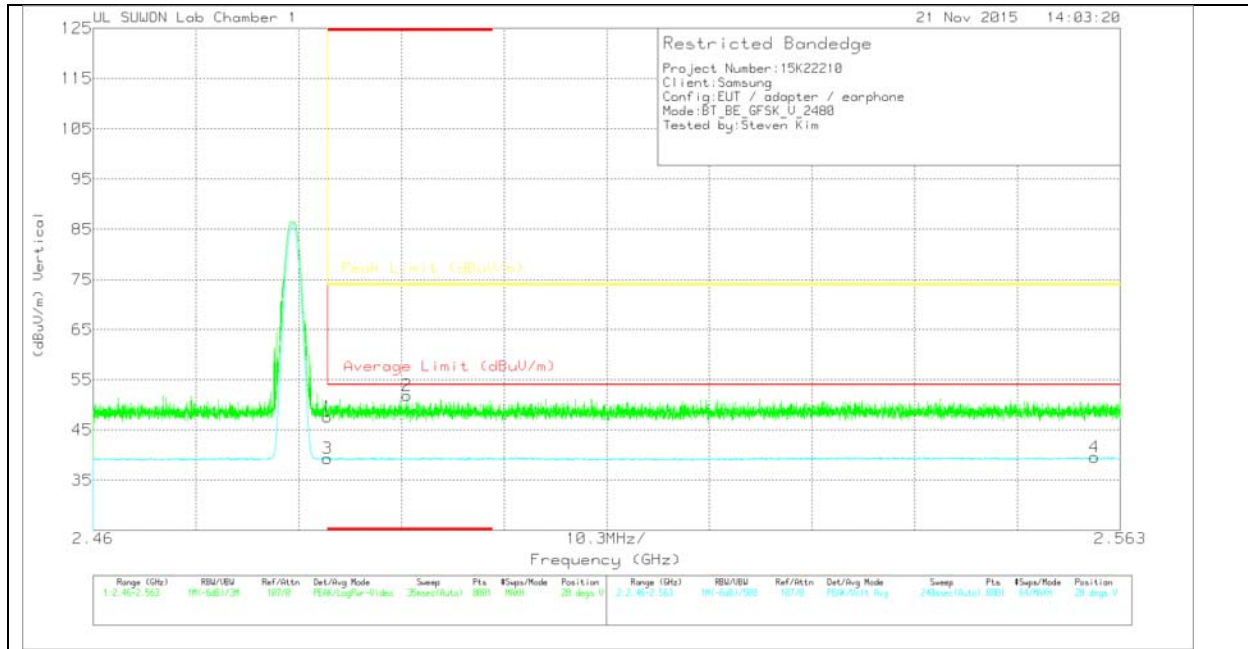
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168 717)_150619 | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 45.45 | Pk | 32 | -28.3 | 0 | 49.15 | - | - | 74 | -24.85 | 301 | 100 | H |
| 2 | * 2.484 | 50.85 | Pk | 32 | -28.3 | 0 | 54.55 | - | - | 74 | -19.45 | 301 | 100 | H |
| 3 | * 2.484 | 37.44 | V1TV | 32 | -28.3 | 0 | 41.14 | 54 | -12.86 | - | - | 301 | 100 | H |
| 4 | * 2.484 | 37.49 | V1TV | 32 | -28.3 | 0 | 41.19 | 54 | -12.81 | - | - | 301 | 100 | H |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

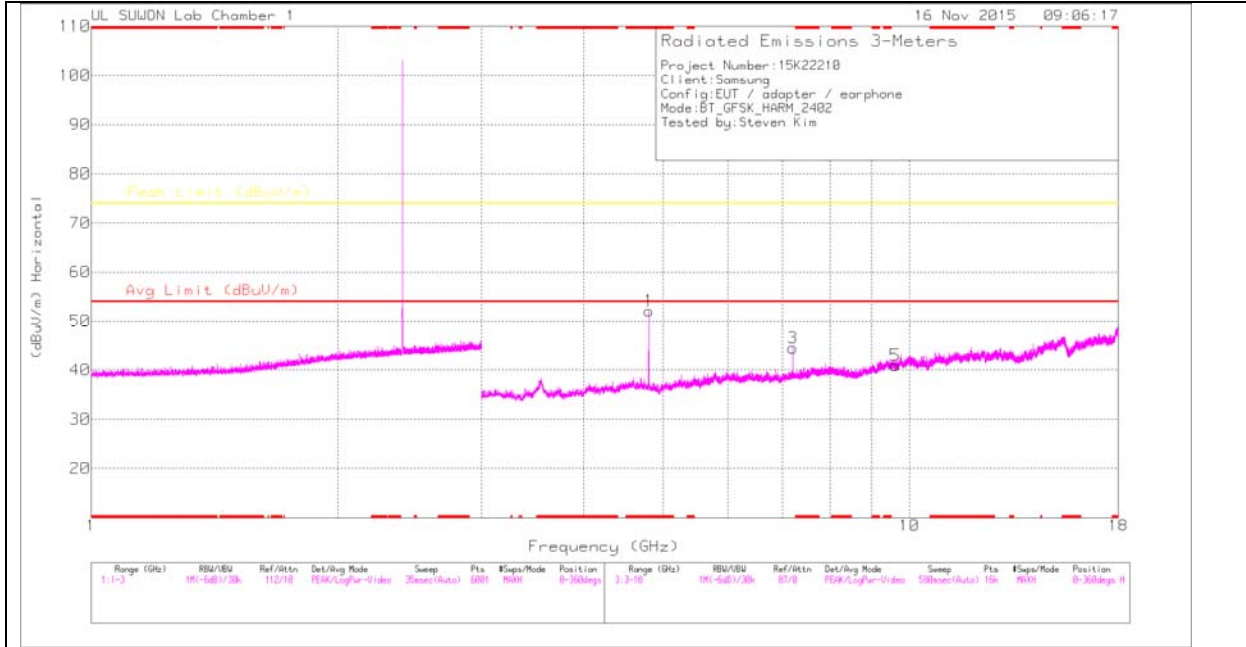
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168 717_150619) | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 43.92 | Pk | 32 | -28.3 | 0 | 47.62 | - | - | 74 | -26.38 | 28 | 139 | V |
| 2 | * 2.491 | 48.16 | Pk | 32 | -28.3 | 0 | 51.86 | - | - | 74 | -22.14 | 28 | 139 | V |
| 3 | * 2.484 | 35.64 | VITV | 32 | -28.3 | 0 | 39.34 | 54 | -14.66 | - | - | 28 | 139 | V |
| 4 | 2.56 | 35.8 | VITV | 32 | -28.2 | 0 | 39.6 | 54 | -14.4 | - | - | 28 | 139 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

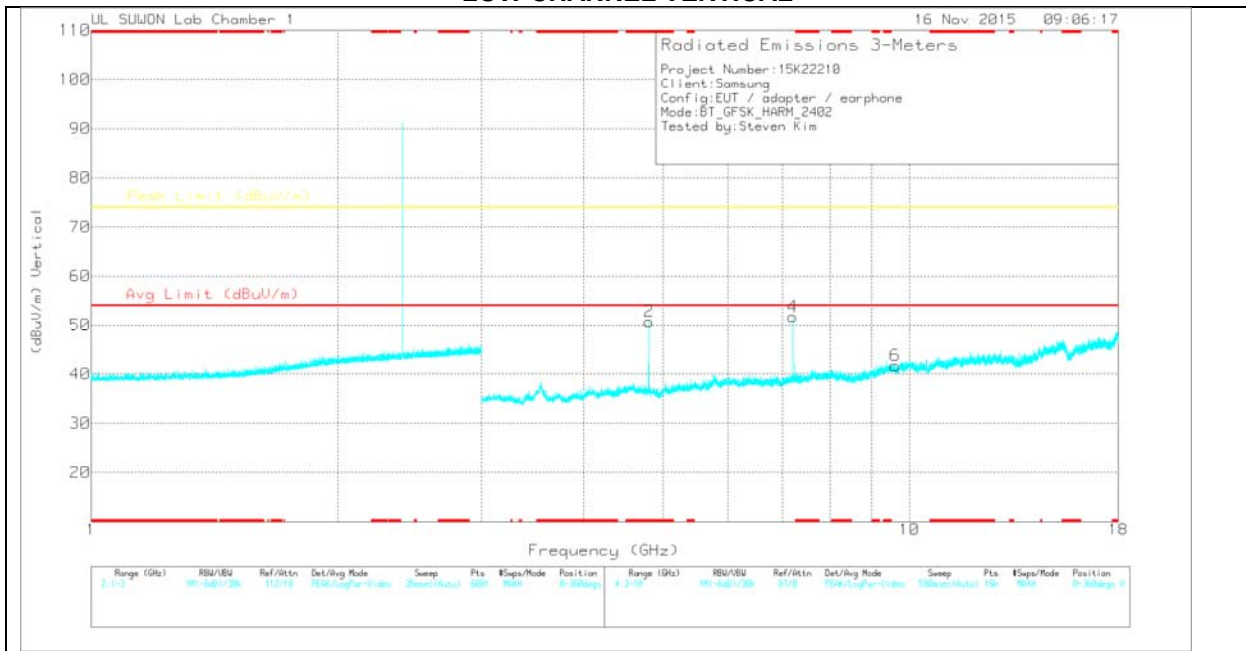
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | * 4.804 | 51.16 | PK | 34 | -33 | 52.16 | - | - | 74 | -21.84 | 0-360 | 100 | H |
| 3 | 7.206 | 38.78 | PK | 35.7 | -30 | 44.48 | - | - | 74 | -29.52 | 0-360 | 100 | H |
| 5 | 9.609 | 30.54 | PK | 37 | -26.6 | 40.94 | - | - | 74 | -33.06 | 0-360 | 200 | H |
| 2 | * 4.804 | 49.8 | PK | 34 | -33 | 50.8 | - | - | 74 | -23.2 | 0-360 | 200 | V |
| 4 | 7.206 | 46.08 | PK | 35.7 | -30 | 51.78 | - | - | 74 | -22.22 | 0-360 | 100 | V |
| 6 | 9.609 | 31.32 | PK | 37 | -26.6 | 41.72 | - | - | 74 | -32.28 | 0-360 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

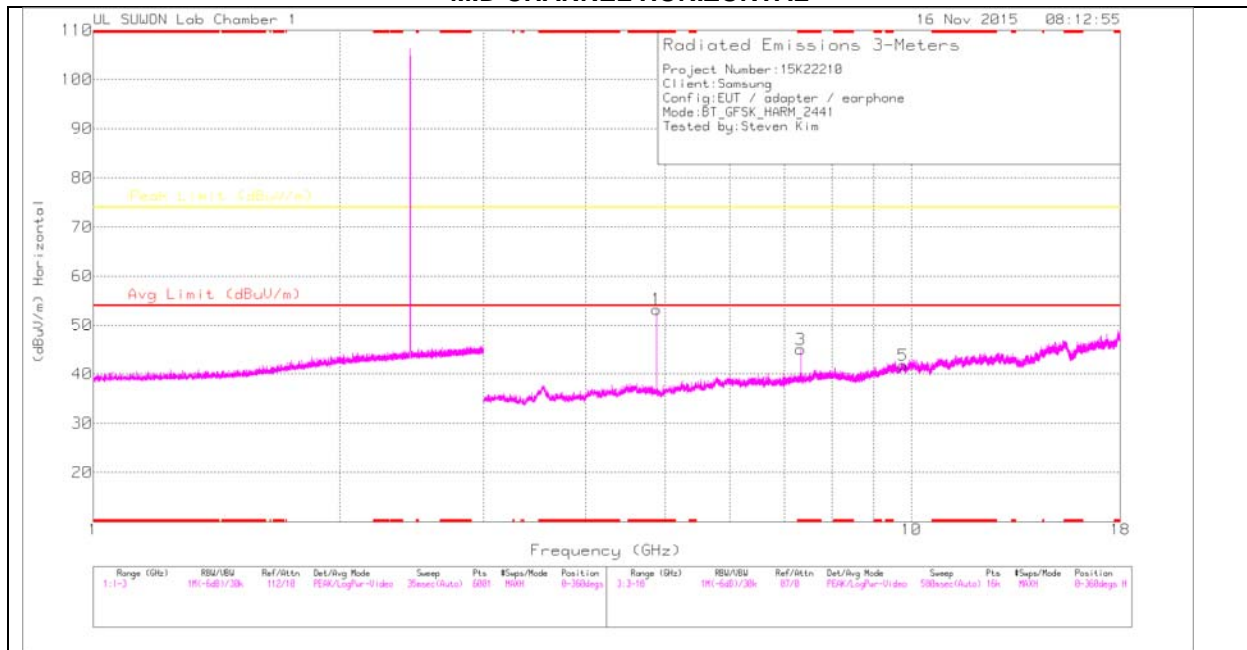
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.804 | 55.73 | PK2 | 34 | -33 | 56.73 | - | - | 74 | -17.27 | 13 | 100 | H |
| * 4.804 | 51.64 | VA1T | 34 | -33 | 52.64 | 54 | -1.36 | - | - | 13 | 100 | H |
| 7.205 | 47.03 | PK2 | 35.7 | -30 | 52.73 | - | - | 74 | -21.27 | 342 | 293 | H |
| 7.206 | 37.66 | VA1T | 35.7 | -30 | 43.36 | - | - | - | - | 342 | 293 | H |
| * 4.804 | 54.94 | PK2 | 34 | -33 | 55.94 | - | - | 74 | -18.06 | 218 | 214 | V |
| * 4.804 | 50.46 | VA1T | 34 | -33 | 51.46 | 54 | -2.54 | - | - | 218 | 214 | V |
| 7.206 | 52.61 | PK2 | 35.7 | -30 | 58.31 | - | - | 74 | -15.69 | 266 | 100 | V |
| 7.206 | 47.6 | VA1T | 35.7 | -30 | 53.3 | - | - | - | - | 266 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

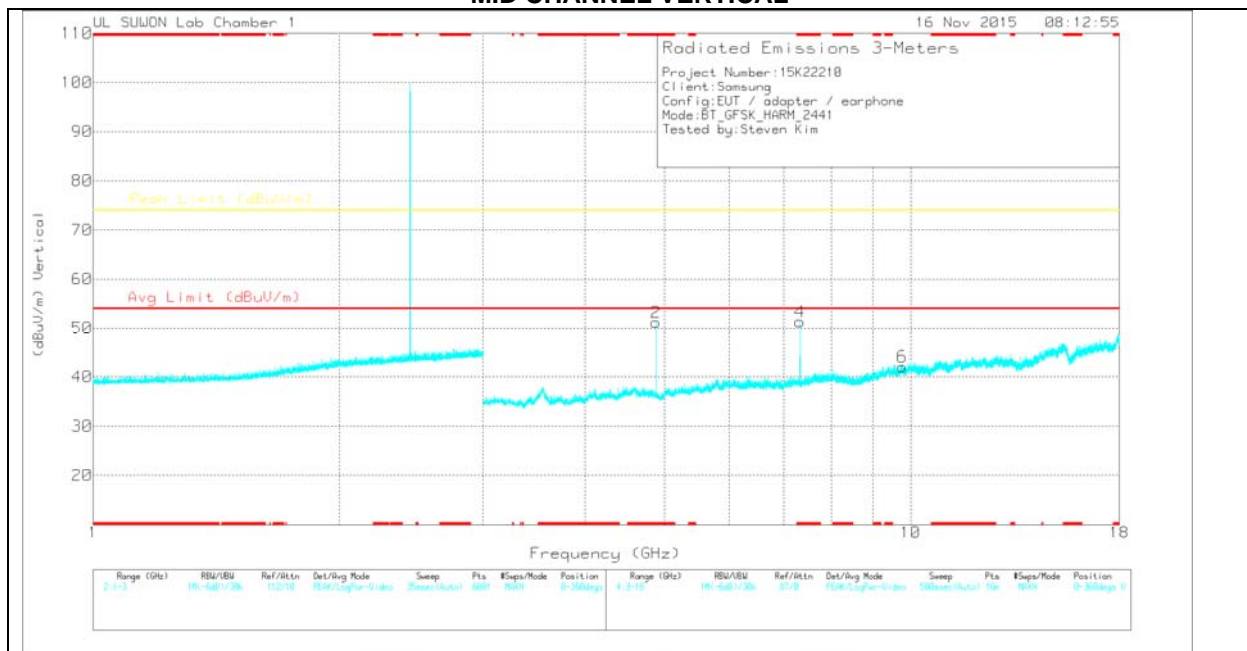
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | * 4.882 | 52.36 | PK | 34 | -33.1 | 53.26 | - | - | 74 | -20.74 | 0-360 | 100 | H |
| 3 | * 7.323 | 39.22 | PK | 35.8 | -30 | 45.02 | - | - | 74 | -28.98 | 0-360 | 100 | H |
| 5 | 9.765 | 30.58 | PK | 37.2 | -26 | 41.78 | - | - | 74 | -32.22 | 0-360 | 200 | H |
| 2 | * 4.881 | 50.33 | PK | 34 | -33.1 | 51.23 | - | - | 74 | -22.77 | 0-360 | 200 | V |
| 4 | * 7.323 | 45.57 | PK | 35.8 | -30 | 51.37 | - | - | 74 | -22.63 | 0-360 | 100 | V |
| 6 | 9.764 | 30.88 | PK | 37.2 | -26 | 42.08 | - | - | 74 | -31.92 | 0-360 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

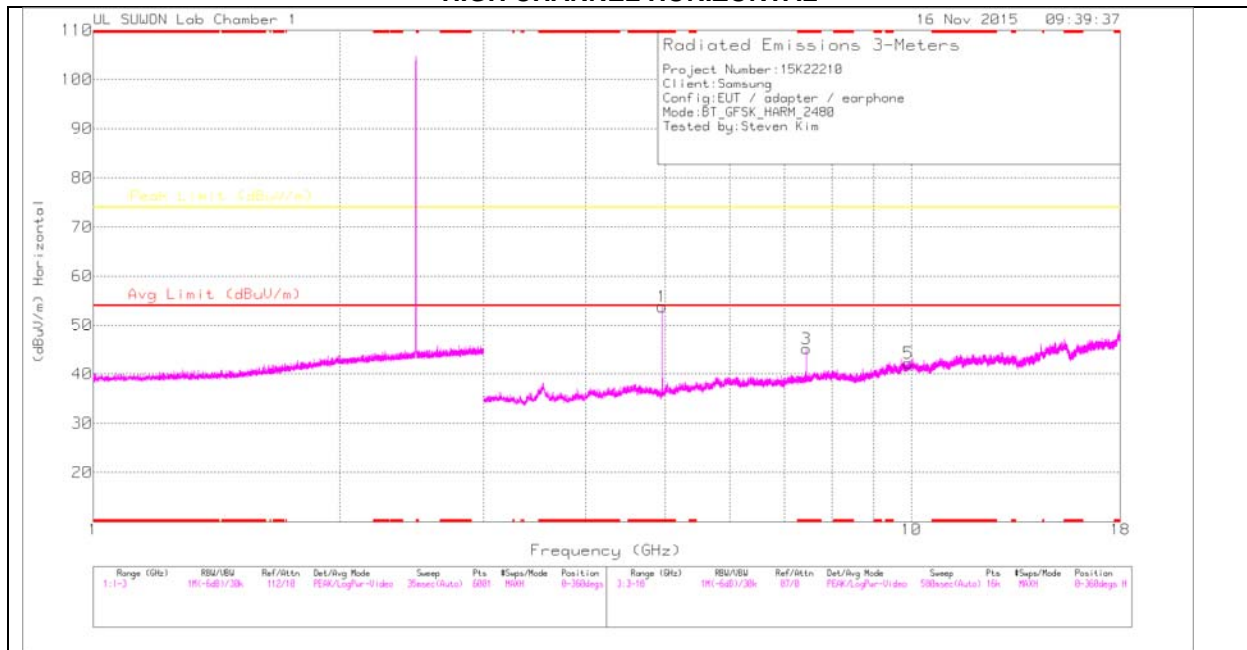
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.882 | 56.45 | PK2 | 34 | -33.1 | 57.35 | - | - | 74 | -16.65 | 156 | 100 | H |
| * 4.882 | 52.84 | VA1T | 34 | -33.1 | 53.74 | 54 | -26 | - | - | 156 | 100 | H |
| * 7.323 | 48.82 | PK2 | 35.8 | -30 | 54.62 | - | - | 74 | -19.38 | 353 | 219 | H |
| * 7.323 | 41.05 | VA1T | 35.8 | -30 | 46.85 | 54 | -7.15 | - | - | 353 | 219 | H |
| * 4.882 | 55.01 | PK2 | 34 | -33.1 | 55.91 | - | - | 74 | -18.09 | 240 | 225 | V |
| * 4.882 | 50.7 | VA1T | 34 | -33.1 | 51.6 | 54 | -2.4 | - | - | 240 | 225 | V |
| * 7.323 | 51.93 | PK2 | 35.8 | -30 | 57.73 | - | - | 74 | -16.27 | 263 | 100 | V |
| * 7.323 | 46.79 | VA1T | 35.8 | -30 | 52.59 | 54 | -1.41 | - | - | 263 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

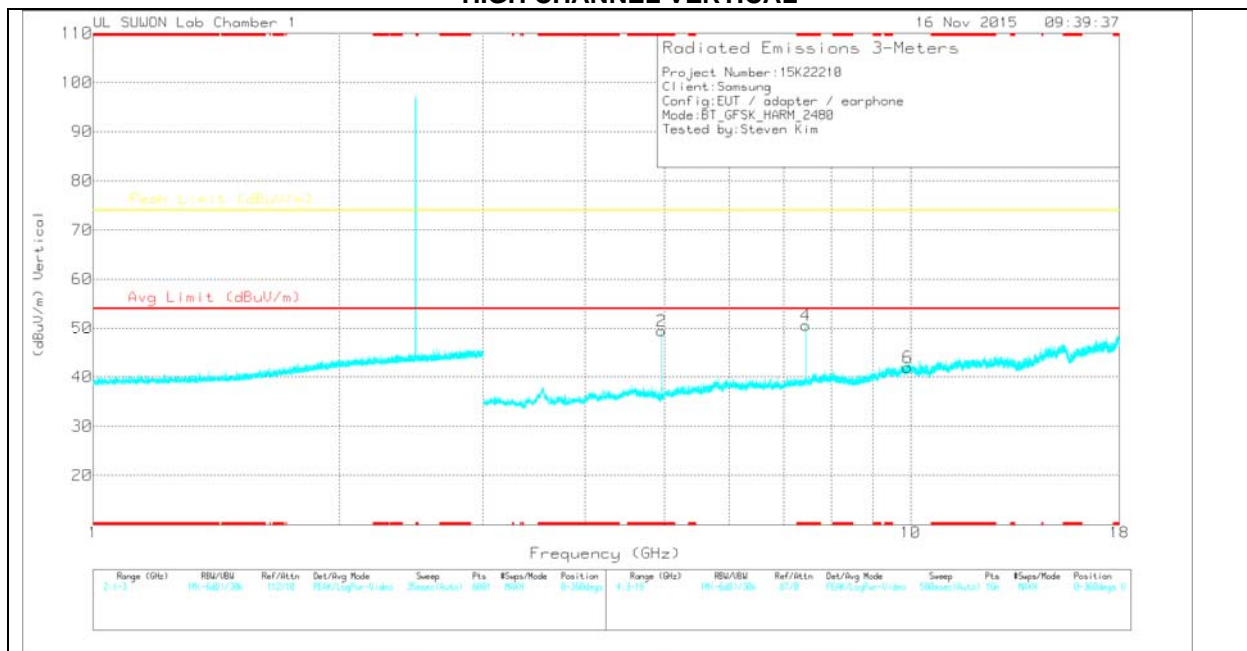
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $VB=1/Ton$ where: Ton is transmit duration

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | * 4.96 | 52.92 | PK | 34 | -33.1 | 53.82 | - | - | 74 | -20.18 | 0-360 | 100 | H |
| 3 | * 7.44 | 39.22 | PK | 35.8 | -29.9 | 45.12 | - | - | 74 | -28.88 | 0-360 | 200 | H |
| 5 | 9.916 | 31.48 | PK | 37.4 | -26.7 | 42.18 | - | - | 74 | -31.82 | 0-360 | 100 | H |
| 2 | * 4.96 | 48.55 | PK | 34 | -33.1 | 49.45 | - | - | 74 | -24.55 | 0-360 | 200 | V |
| 4 | * 7.44 | 44.73 | PK | 35.8 | -29.9 | 50.63 | - | - | 74 | -23.37 | 0-360 | 100 | V |
| 6 | 9.925 | 31.03 | PK | 37.4 | -26.5 | 41.93 | - | - | 74 | -32.07 | 0-360 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.96 | 55.93 | PK2 | 34 | -33.1 | 56.83 | - | - | 74 | -17.17 | 143 | 155 | H |
| * 4.96 | 52.64 | VA1T | 34 | -33.1 | 53.54 | 54 | -46 | - | - | 143 | 155 | H |
| * 7.441 | 49.15 | PK2 | 35.8 | -29.9 | 55.05 | - | - | 74 | -18.95 | 338 | 350 | H |
| * 7.44 | 41.51 | VA1T | 35.8 | -29.9 | 47.41 | 54 | -6.59 | - | - | 338 | 350 | H |
| * 4.96 | 55.03 | PK2 | 34 | -33.1 | 55.93 | - | - | 74 | -18.07 | 225 | 221 | V |
| * 4.96 | 51.38 | VA1T | 34 | -33.1 | 52.28 | 54 | -1.72 | - | - | 225 | 221 | V |
| * 7.44 | 50.52 | PK2 | 35.8 | -29.9 | 56.42 | - | - | 74 | -17.58 | 247 | 353 | V |
| * 7.44 | 44.29 | VA1T | 35.8 | -29.9 | 50.19 | 54 | -3.81 | - | - | 247 | 353 | V |

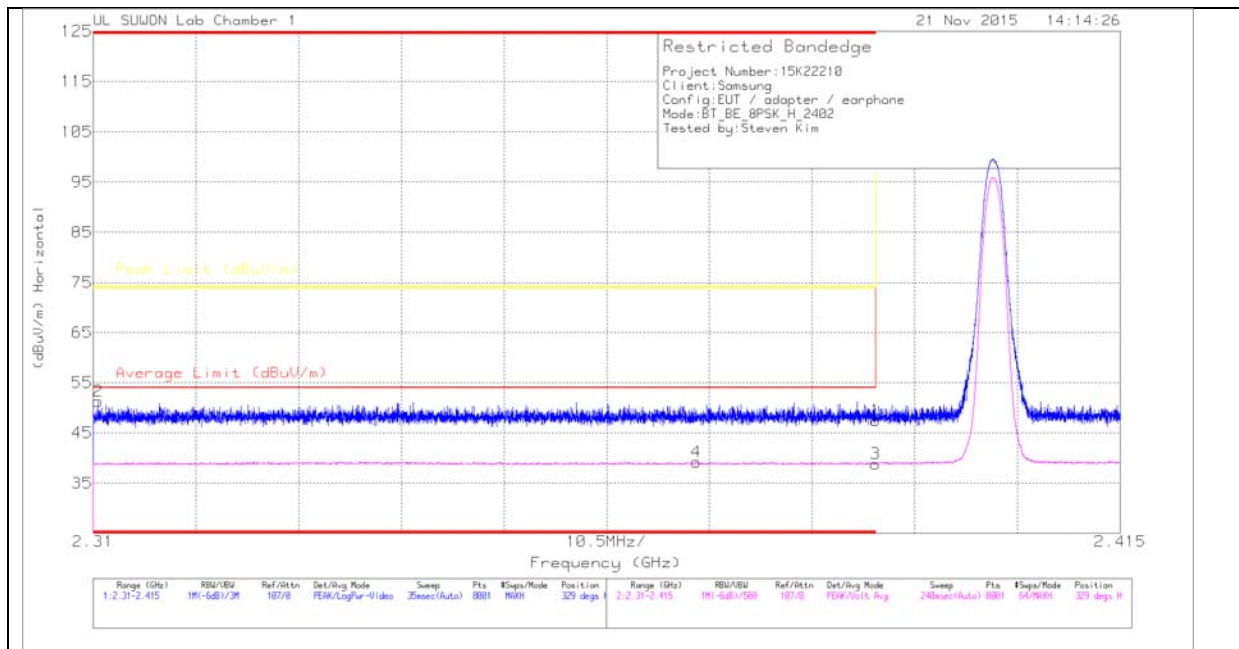
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

9.2.2. ENHANCED DATA RATE 8PSK MODULATION RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

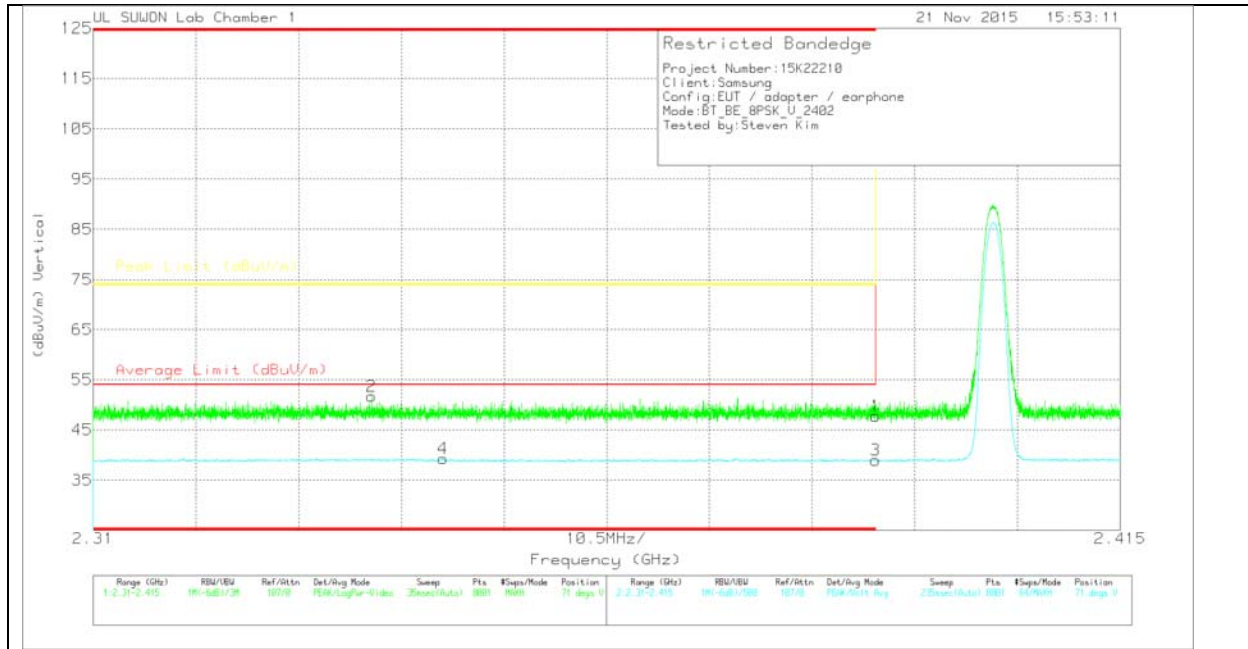
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168 717)_150619 | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 44.09 | Pk | 31.8 | -28.4 | 0 | 47.49 | - | - | 74 | -26.51 | 329 | 119 | H |
| 2 | * 2.311 | 48.09 | Pk | 31.7 | -28.5 | 0 | 51.29 | - | - | 74 | -22.71 | 329 | 119 | H |
| 3 | * 2.39 | 35.46 | VITV | 31.8 | -28.4 | 0 | 38.86 | 54 | -15.14 | - | - | 329 | 119 | H |
| 4 | * 2.372 | 35.93 | VITV | 31.8 | -28.5 | 0 | 39.23 | 54 | -14.77 | - | - | 329 | 119 | H |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

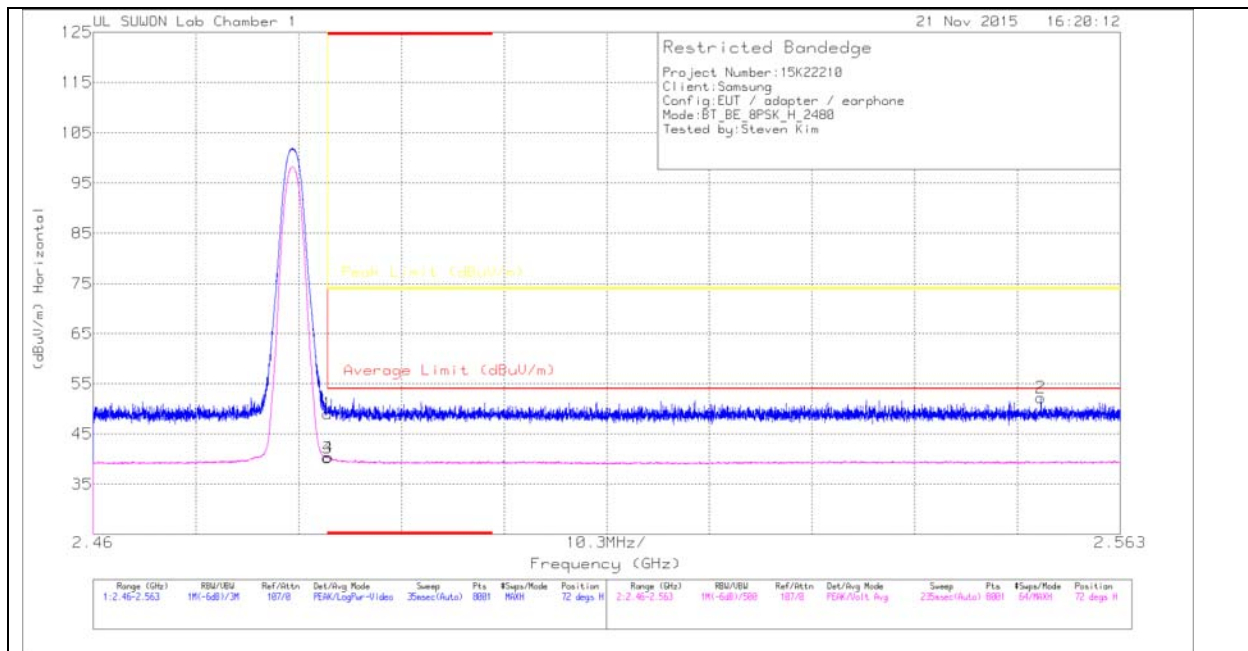
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168 717)_150619 | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 44.37 | Pk | 31.8 | -28.4 | 0 | 47.77 | - | - | 74 | -26.23 | 71 | 179 | V |
| 2 | * 2.338 | 48.47 | Pk | 31.7 | -28.5 | 0 | 51.67 | - | - | 74 | -22.33 | 71 | 179 | V |
| 3 | * 2.39 | 35.59 | V1TV | 31.8 | -28.4 | 0 | 38.99 | 54 | -15.01 | - | - | 71 | 179 | V |
| 4 | * 2.346 | 36.12 | V1TV | 31.7 | -28.5 | 0 | 39.32 | 54 | -14.68 | - | - | 71 | 179 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

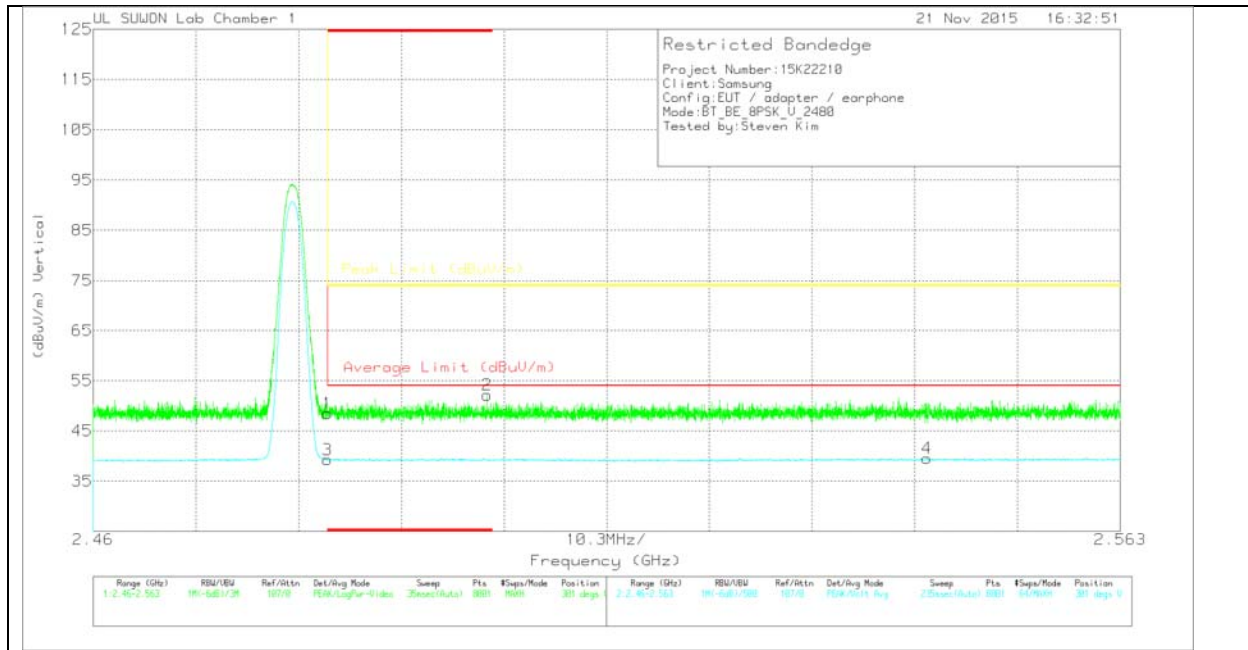
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168717)_150619 | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-----------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 45.38 | Pk | 32 | -28.3 | 0 | 49.08 | - | - | 74 | -24.92 | 72 | 100 | H |
| 2 | 2.555 | 48.43 | Pk | 32 | -28.2 | 0 | 52.23 | - | - | 74 | -21.77 | 72 | 100 | H |
| 3 | * 2.484 | 36.55 | V1TV | 32 | -28.3 | 0 | 40.25 | 54 | -13.75 | - | - | 72 | 100 | H |
| 4 | * 2.484 | 36.65 | V1TV | 32 | -28.3 | 0 | 40.35 | 54 | -13.65 | - | - | 72 | 100 | H |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

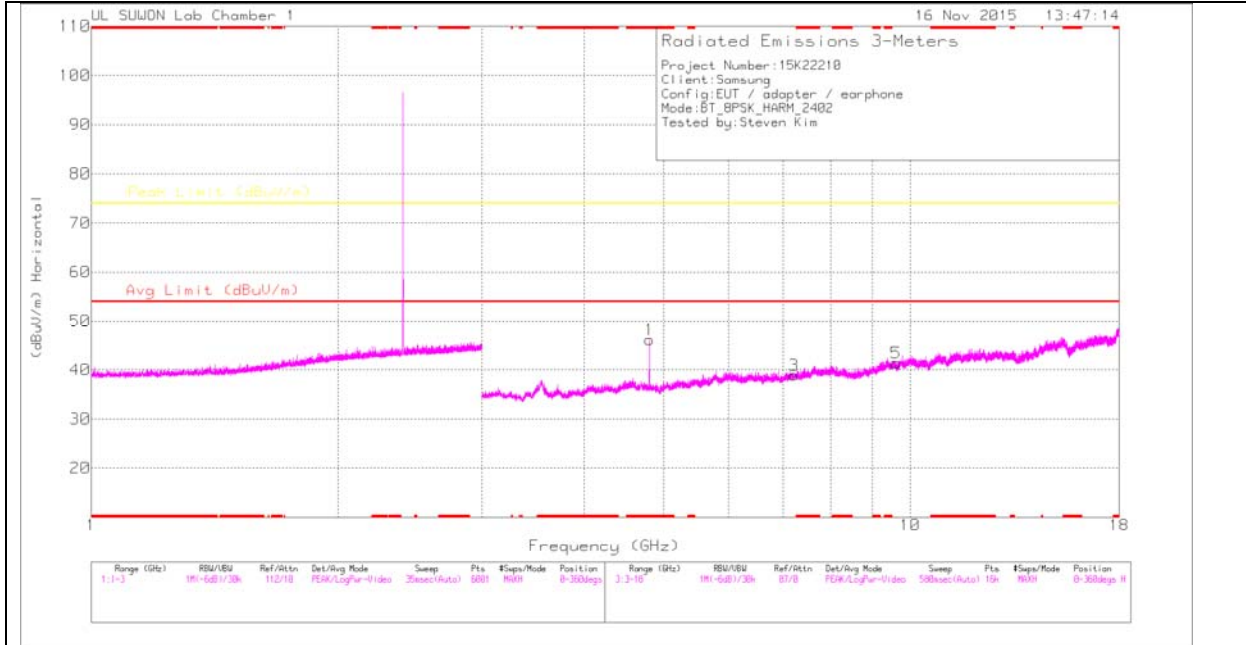
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(00168 717)_150619 | Path_2 | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------------|--------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 44.8 | Pk | 32 | -28.3 | 0 | 48.5 | - | - | 74 | -25.5 | 301 | 335 | V |
| 2 | * 2.5 | 48.44 | Pk | 32 | -28.3 | 0 | 52.14 | - | - | 74 | -21.86 | 301 | 335 | V |
| 3 | * 2.484 | 35.59 | V1TV | 32 | -28.3 | 0 | 39.29 | 54 | -14.71 | - | - | 301 | 335 | V |
| 4 | 2.544 | 35.76 | V1TV | 32 | -28.2 | 0 | 39.56 | 54 | -14.44 | - | - | 301 | 335 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

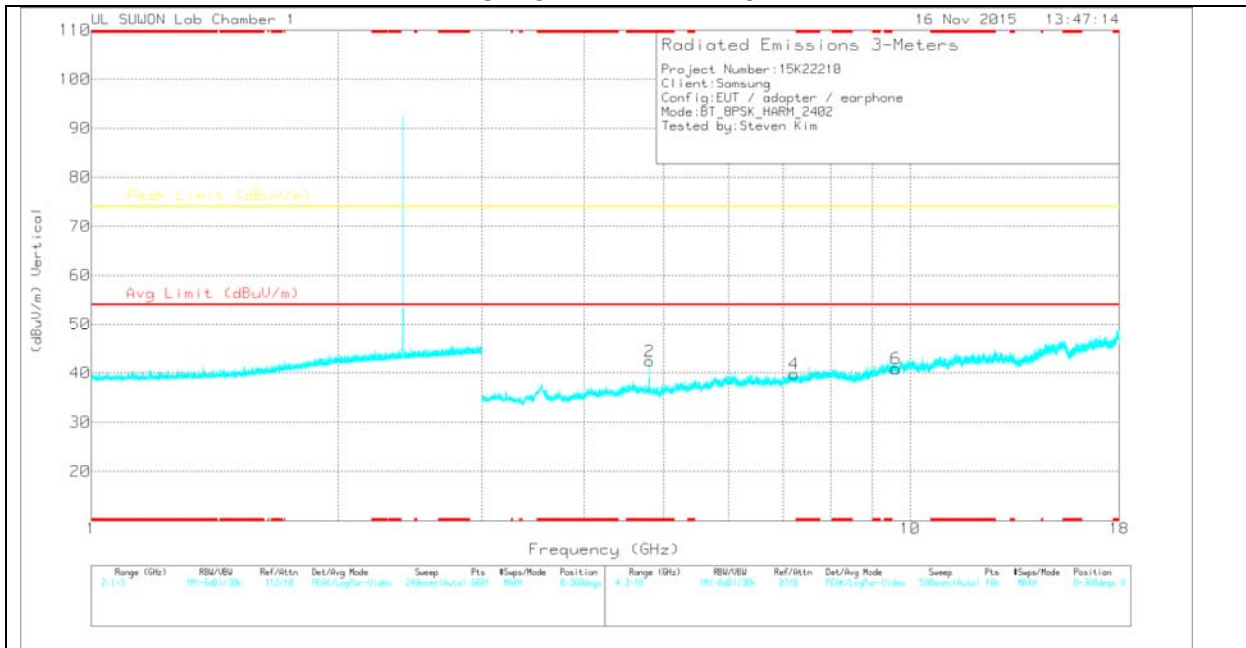
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | * 4.804 | 45.19 | Avg | 34 | -33 | 46.19 | - | - | 74 | -27.81 | 0-360 | 100 | H |
| 3 | 7.211 | 33.23 | Avg | 35.7 | -30 | 38.93 | - | - | 74 | -35.07 | 0-360 | 100 | H |
| 5 | 9.611 | 31.02 | Avg | 37 | -26.6 | 41.42 | - | - | 74 | -32.58 | 0-360 | 100 | H |
| 2 | * 4.804 | 41.42 | Avg | 34 | -33 | 42.42 | - | - | 74 | -31.58 | 0-360 | 200 | V |
| 4 | 7.211 | 34.09 | Avg | 35.7 | -30 | 39.79 | - | - | 74 | -34.21 | 0-360 | 200 | V |
| 6 | 9.611 | 30.46 | Avg | 37 | -26.6 | 40.86 | - | - | 74 | -33.14 | 0-360 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

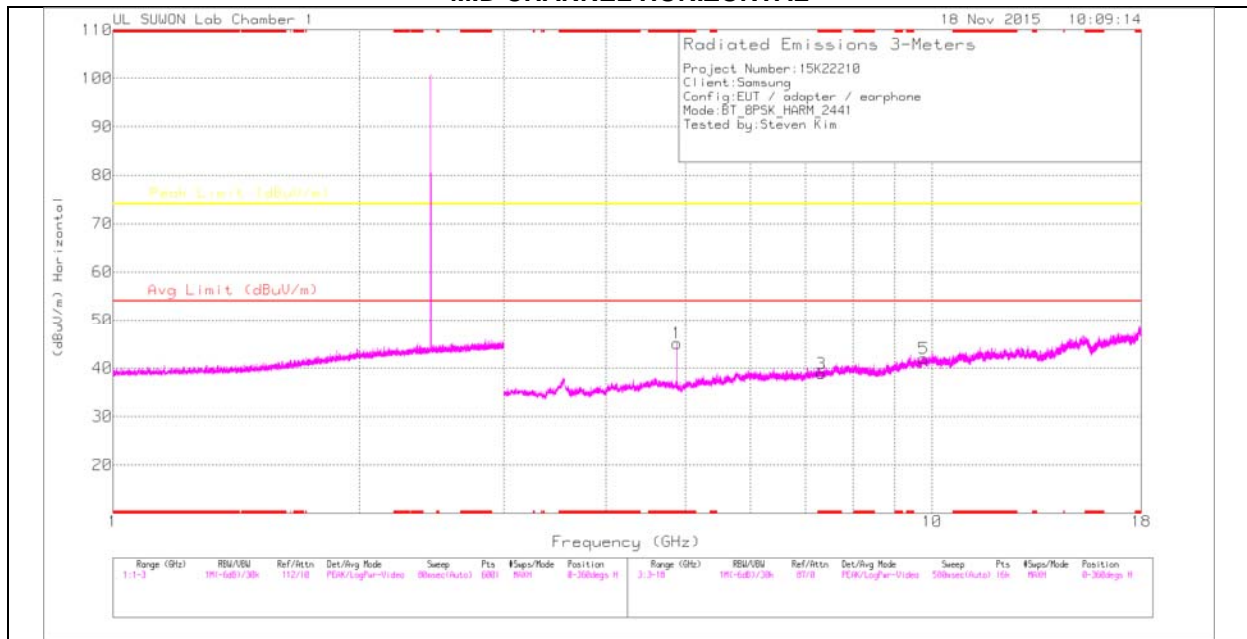
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.804 | 53.73 | PK2 | 34 | -33 | 54.73 | - | - | 74 | -19.27 | 354 | 102 | H |
| * 4.804 | 43.97 | VA1T | 34 | -33 | 44.97 | 54 | -9.03 | - | - | 354 | 102 | H |
| * 4.804 | 52.09 | PK2 | 34 | -33 | 53.09 | - | - | 74 | -20.91 | 221 | 254 | V |
| * 4.804 | 41.49 | VA1T | 34 | -33 | 42.49 | 54 | -11.51 | - | - | 221 | 254 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

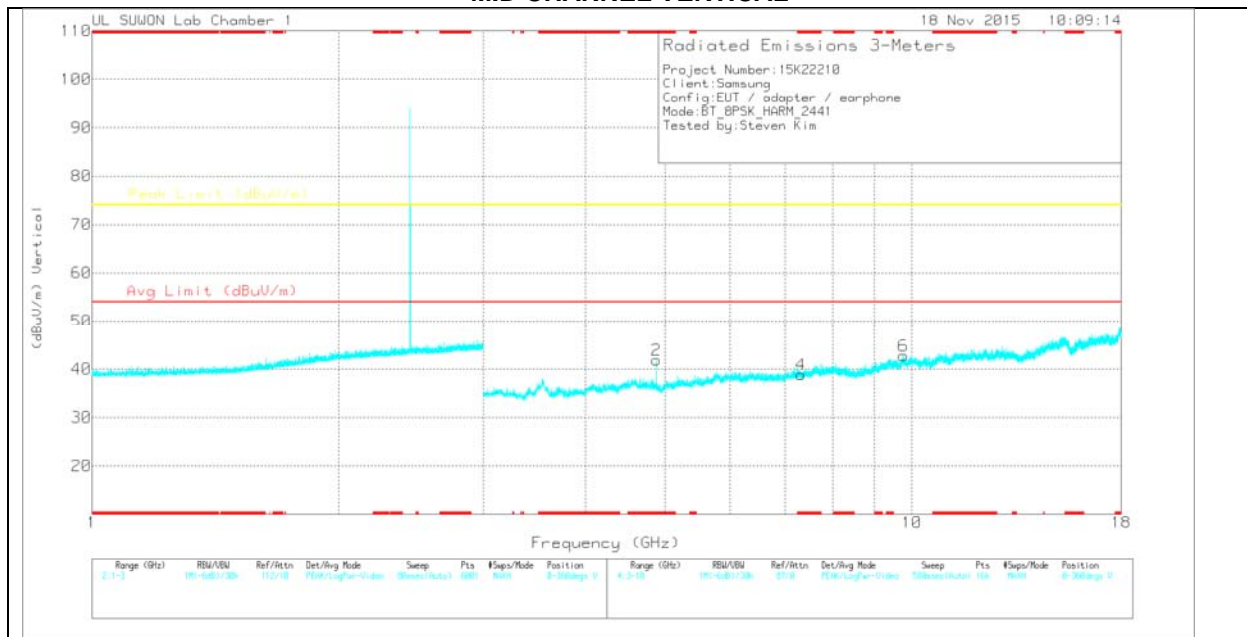
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | * 4.881 | 44.21 | PK | 34 | -33.1 | 45.11 | - | - | 74 | -28.89 | 0-360 | 100 | H |
| 3 | * 7.325 | 33.1 | PK | 35.8 | -30 | 38.9 | - | - | 74 | -35.1 | 0-360 | 100 | H |
| 5 | 9.766 | 30.8 | PK | 37.2 | -26 | 42 | - | - | 74 | -32 | 0-360 | 200 | H |
| 2 | * 4.881 | 40.94 | PK | 34 | -33.1 | 41.84 | - | - | 74 | -32.16 | 0-360 | 200 | V |
| 4 | * 7.323 | 33 | PK | 35.8 | -30 | 38.8 | - | - | 74 | -35.2 | 0-360 | 200 | V |
| 6 | 9.766 | 31.54 | PK | 37.2 | -26 | 42.74 | - | - | 74 | -31.26 | 0-360 | 200 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

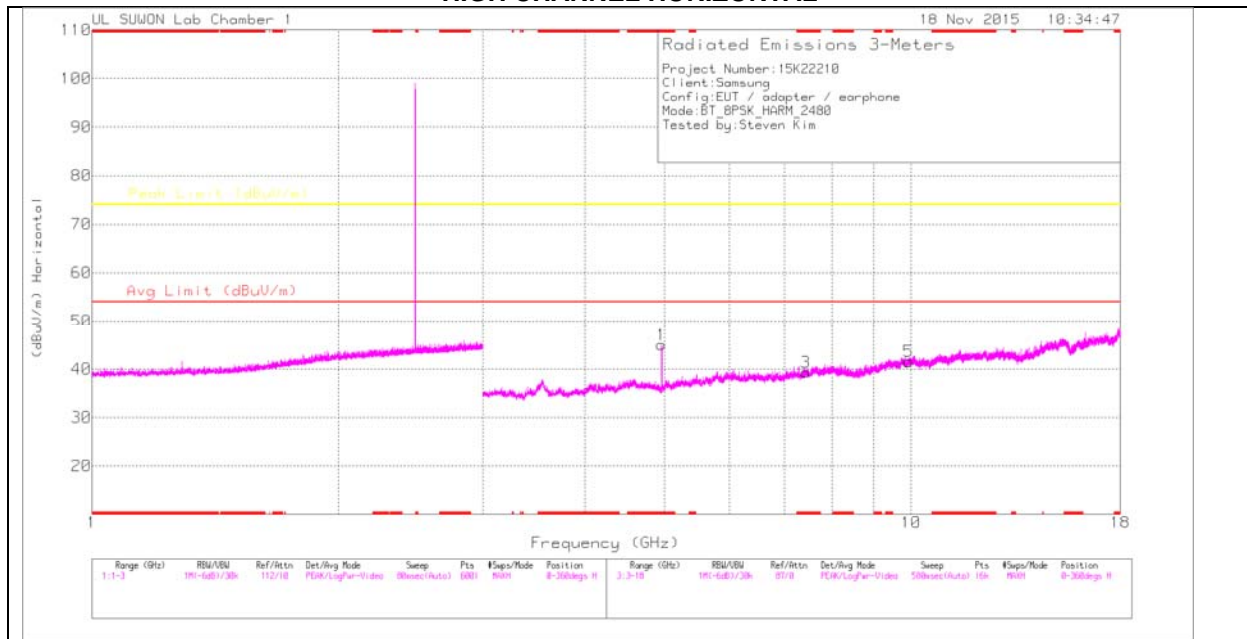
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.882 | 50.9 | PK2 | 34 | -33.1 | 51.8 | - | - | 74 | -22.2 | 152 | 280 | H |
| * 4.882 | 40.43 | VA1T | 34 | -33.1 | 41.33 | 54 | -12.67 | - | - | 152 | 280 | H |
| * 4.882 | 53.25 | PK2 | 34 | -33.1 | 54.15 | - | - | 74 | -19.85 | 216 | 232 | V |
| * 4.882 | 43.56 | VA1T | 34 | -33.1 | 44.46 | 54 | -9.54 | - | - | 216 | 232 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

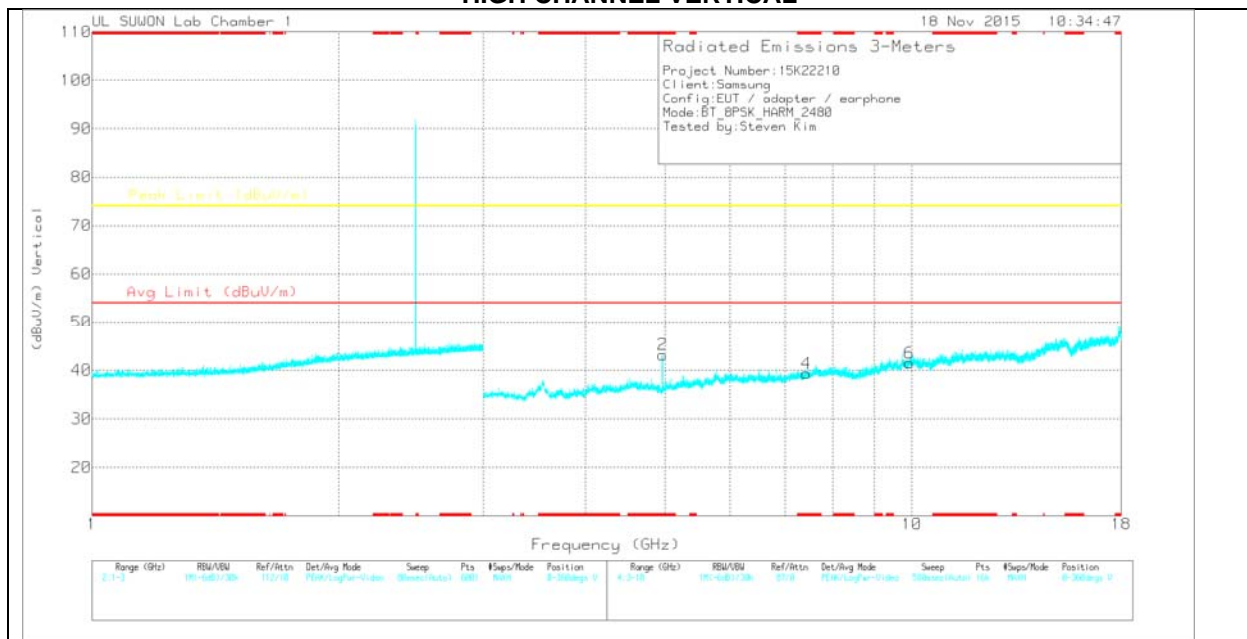
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | * 4.959 | 44.14 | PK | 34 | -33.1 | 45.04 | - | - | 74 | -28.96 | 0-360 | 100 | H |
| 3 | * 7.44 | 33.42 | PK | 35.8 | -29.9 | 39.32 | - | - | 74 | -34.68 | 0-360 | 200 | H |
| 5 | 9.92 | 30.77 | PK | 37.4 | -26.6 | 41.57 | - | - | 74 | -32.43 | 0-360 | 100 | H |
| 2 | * 4.96 | 42.31 | PK | 34 | -33.1 | 43.21 | - | - | 74 | -30.79 | 0-360 | 200 | V |
| 4 | * 7.441 | 33.47 | PK | 35.8 | -29.9 | 39.37 | - | - | 74 | -34.63 | 0-360 | 200 | V |
| 6 | 9.919 | 30.69 | PK | 37.4 | -26.6 | 41.49 | - | - | 74 | -32.51 | 0-360 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117(0016 8717)_150 619 | Path_3 | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------------|--------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.96 | 52.37 | PK2 | 34 | -33.1 | 53.27 | - | - | 74 | -20.73 | 156 | 275 | H |
| * 4.96 | 42.58 | VA1T | 34 | -33.1 | 43.48 | 54 | -10.52 | - | - | 156 | 275 | H |
| * 4.96 | 52.19 | PK2 | 34 | -33.1 | 53.09 | - | - | 74 | -20.91 | 226 | 273 | V |
| * 4.96 | 42.08 | VA1T | 34 | -33.1 | 42.98 | 54 | -11.02 | - | - | 226 | 273 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

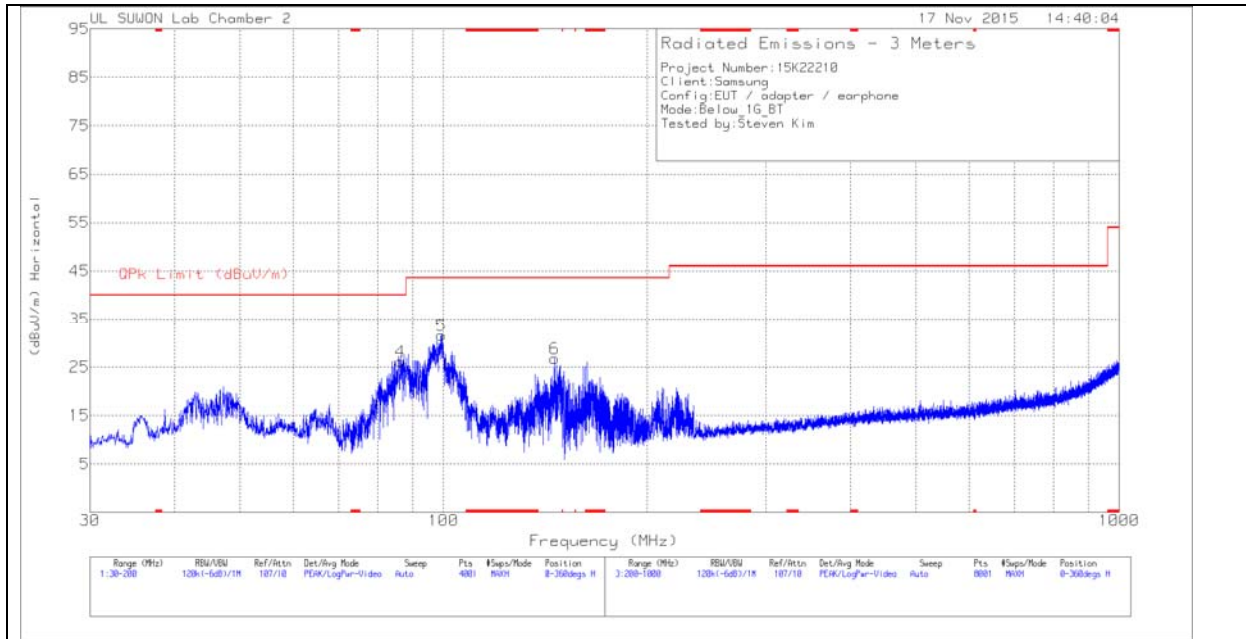
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

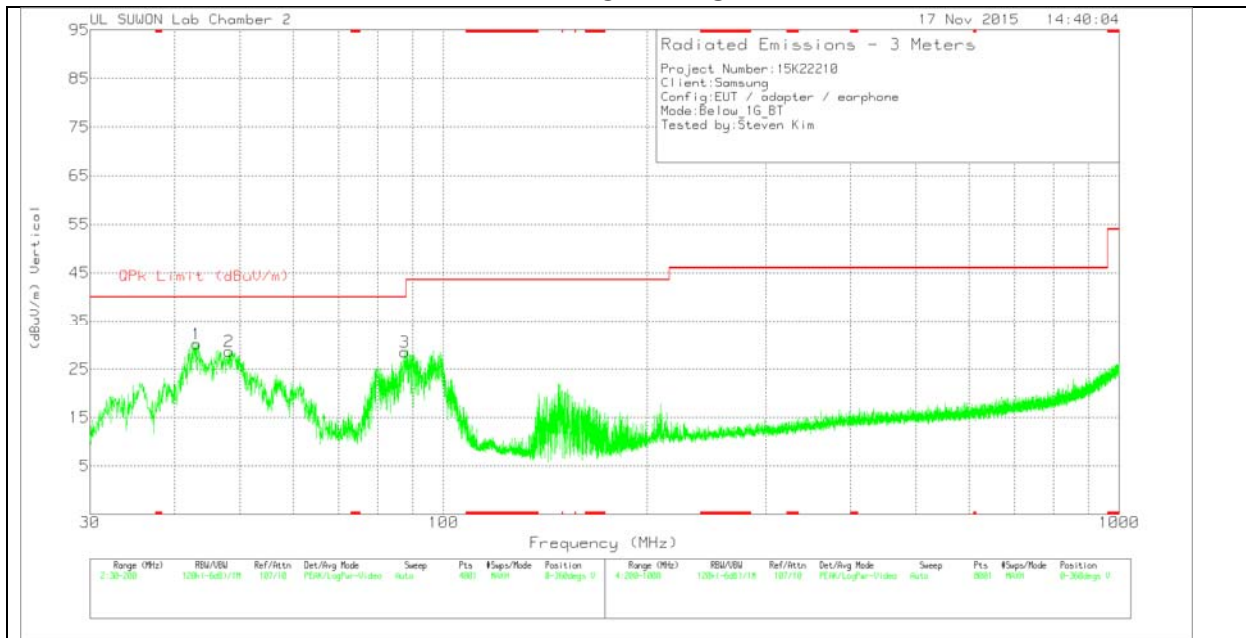
9.3. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163-749 | Below_1G | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 4 | 86.3125 | 47.99 | Pk | 8.7 | -30.6 | 26.09 | 40 | -13.91 | 0-360 | 200 | H |
| 5 | 99.4025 | 50.56 | Pk | 11.5 | -30.5 | 31.56 | 43.52 | -11.96 | 0-360 | 300 | H |
| 6 | 146.0675 | 49.11 | Pk | 8.1 | -30.5 | 26.71 | 43.52 | -16.81 | 0-360 | 200 | H |
| 1 | 43.1325 | 47.42 | Pk | 13.5 | -30.7 | 30.22 | 40 | -9.78 | 0-360 | 100 | V |
| 2 | 48.19 | 45.43 | Pk | 14 | -30.8 | 28.63 | 40 | -11.37 | 0-360 | 100 | V |
| 3 | 87.5875 | 50.13 | Pk | 9 | -30.6 | 28.53 | 40 | -11.47 | 0-360 | 100 | V |

Pk - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

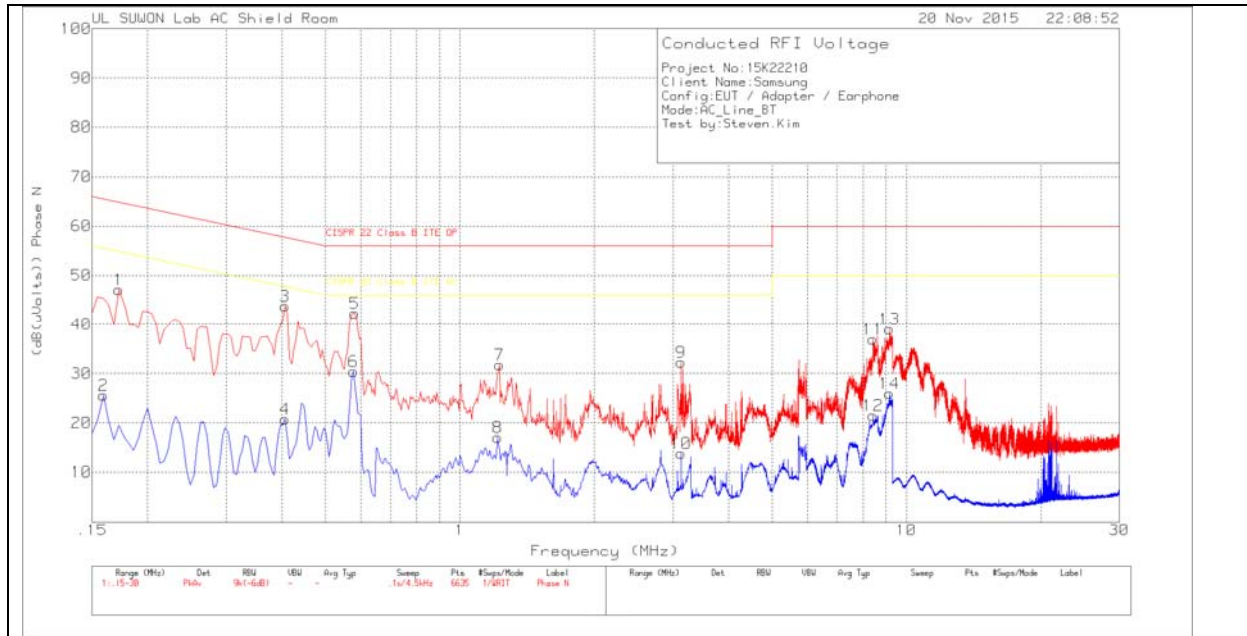
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

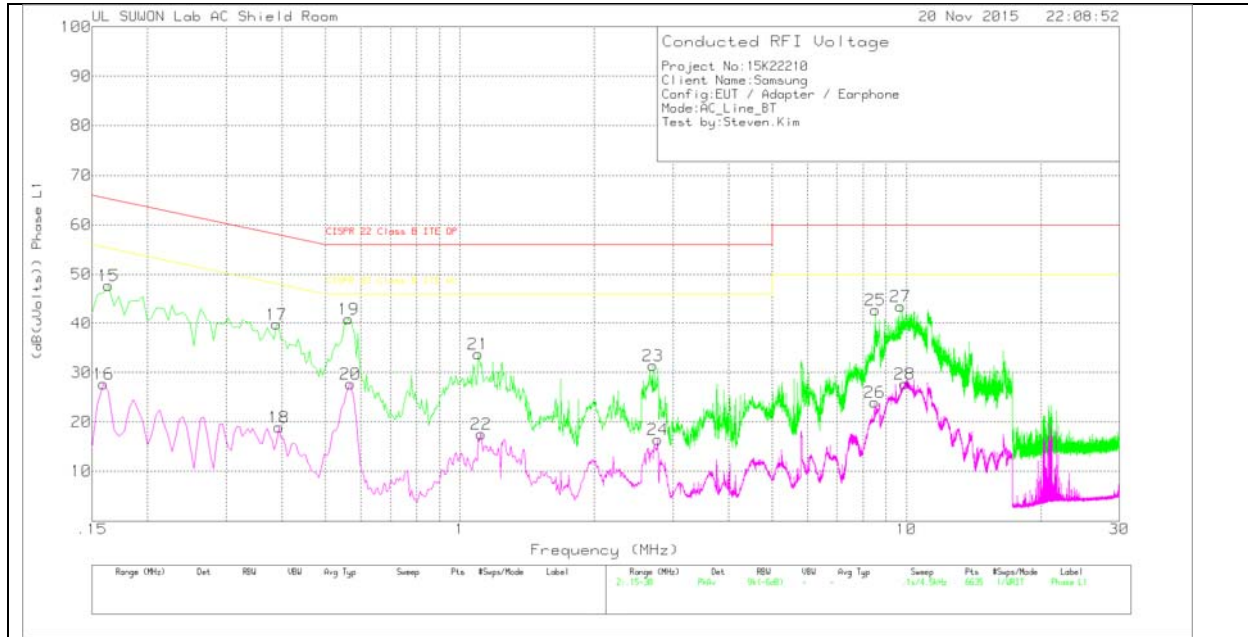
Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101837_N | CE Shield Room | Corrected Reading (dB(uVolts)) | CISPR 22 Class B ITE QP | Margin (dB) | CISPR 22 Class B ITE AV | Margin (dB) |
|--------|-----------------|----------------------|-----|----------|----------------|--------------------------------|-------------------------|-------------|-------------------------|-------------|
| 1 | .1725 | 37 | Pk | 10.1 | 0 | 47.1 | 64.84 | -17.74 | - | - |
| 2 | .159 | 15.63 | Av | 10 | 0 | 25.63 | - | - | 55.52 | -29.89 |
| 3 | .4065 | 33.73 | Pk | 10 | 0 | 43.73 | 57.72 | -13.99 | - | - |
| 4 | .4065 | 10.76 | Av | 10 | 0 | 20.76 | - | - | 47.72 | -26.96 |
| 5 | .582 | 32.19 | Pk | 10.1 | 0 | 42.29 | 56 | -13.71 | - | - |
| 6 | .5775 | 20.31 | Av | 10.1 | 0 | 30.41 | - | - | 46 | -15.59 |
| 7 | 1.2255 | 21.83 | Pk | 9.8 | .1 | 31.73 | 56 | -24.27 | - | - |
| 8 | 1.2165 | 7.19 | Av | 9.8 | .1 | 17.09 | - | - | 46 | -28.91 |
| 9 | 3.129 | 22.37 | Pk | 9.8 | .1 | 32.27 | 56 | -23.73 | - | - |
| 10 | 3.129 | 3.92 | Av | 9.8 | .1 | 13.82 | - | - | 46 | -32.18 |
| 11 | 8.412 | 27.11 | Pk | 9.7 | .1 | 36.91 | 60 | -23.09 | - | - |
| 12 | 8.412 | 11.69 | Av | 9.7 | .1 | 21.49 | - | - | 50 | -28.51 |
| 13 | 9.177 | 29.16 | Pk | 9.7 | .2 | 39.06 | 60 | -20.94 | - | - |
| 14 | 9.177 | 16.01 | Av | 9.7 | .2 | 25.91 | - | - | 50 | -24.09 |

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Phase L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101837_L 1 | CE Shield Room | Corrected Reading (dB(uVolts)) | CISPR 22 Class B ITE QP | Margin (dB) | CISPR 22 Class B ITE AV | Margin (dB) |
|--------|-----------------|----------------------|-----|------------|----------------|--------------------------------|-------------------------|-------------|-------------------------|-------------|
| 15 | .1635 | 37.91 | Pk | 9.8 | 0 | 47.71 | 65.28 | -17.57 | - | - |
| 16 | .159 | 17.85 | Av | 9.8 | 0 | 27.65 | - | - | 55.52 | -27.87 |
| 17 | .3885 | 29.88 | Pk | 9.9 | 0 | 39.78 | 58.1 | -18.32 | - | - |
| 18 | .393 | 9.04 | Av | 9.9 | 0 | 18.94 | - | - | 48 | -29.06 |
| 19 | .564 | 30.87 | Pk | 10 | 0 | 40.87 | 56 | -15.13 | - | - |
| 20 | .5685 | 17.66 | Av | 10 | 0 | 27.66 | - | - | 46 | -18.34 |
| 21 | 1.0995 | 24.24 | Pk | 9.5 | 0 | 33.74 | 56 | -22.26 | - | - |
| 22 | 1.1175 | 8.09 | Av | 9.5 | 0 | 17.59 | - | - | 46 | -28.41 |
| 23 | 2.706 | 21.91 | Pk | 9.4 | .1 | 31.41 | 56 | -24.59 | - | - |
| 24 | 2.7735 | 6.9 | Av | 9.4 | .1 | 16.4 | - | - | 46 | -29.6 |
| 25 | 8.52 | 33.33 | Pk | 9.3 | .1 | 42.73 | 60 | -17.27 | - | - |
| 26 | 8.4885 | 14.62 | Av | 9.3 | .1 | 24.02 | - | - | 50 | -25.98 |
| 27 | 9.699 | 33.96 | Pk | 9.3 | .2 | 43.46 | 60 | -16.54 | - | - |
| 28 | 9.9105 | 18.2 | Av | 9.3 | .2 | 27.7 | - | - | 50 | -22.3 |

Pk - Peak detector

Av - Average detection