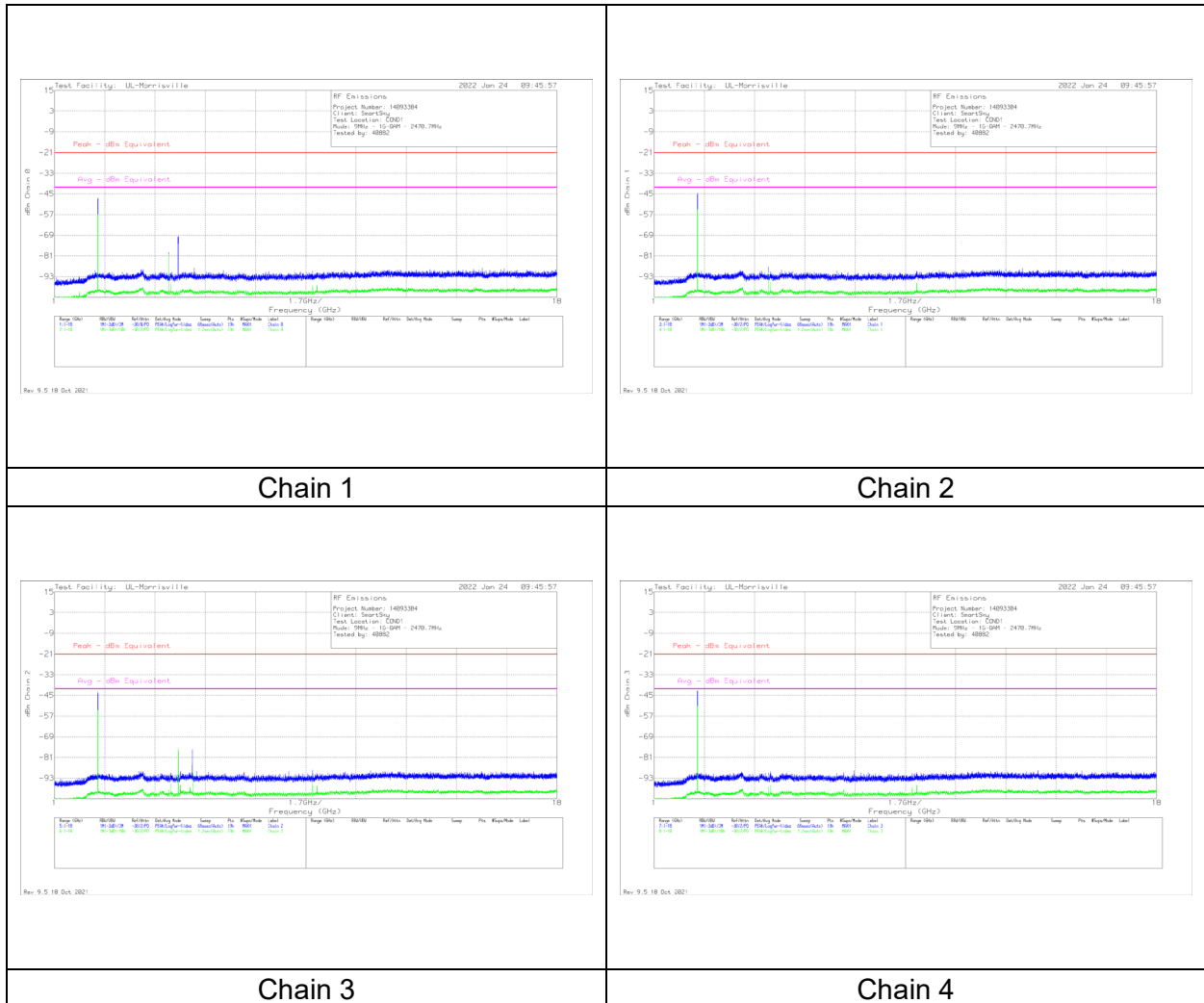
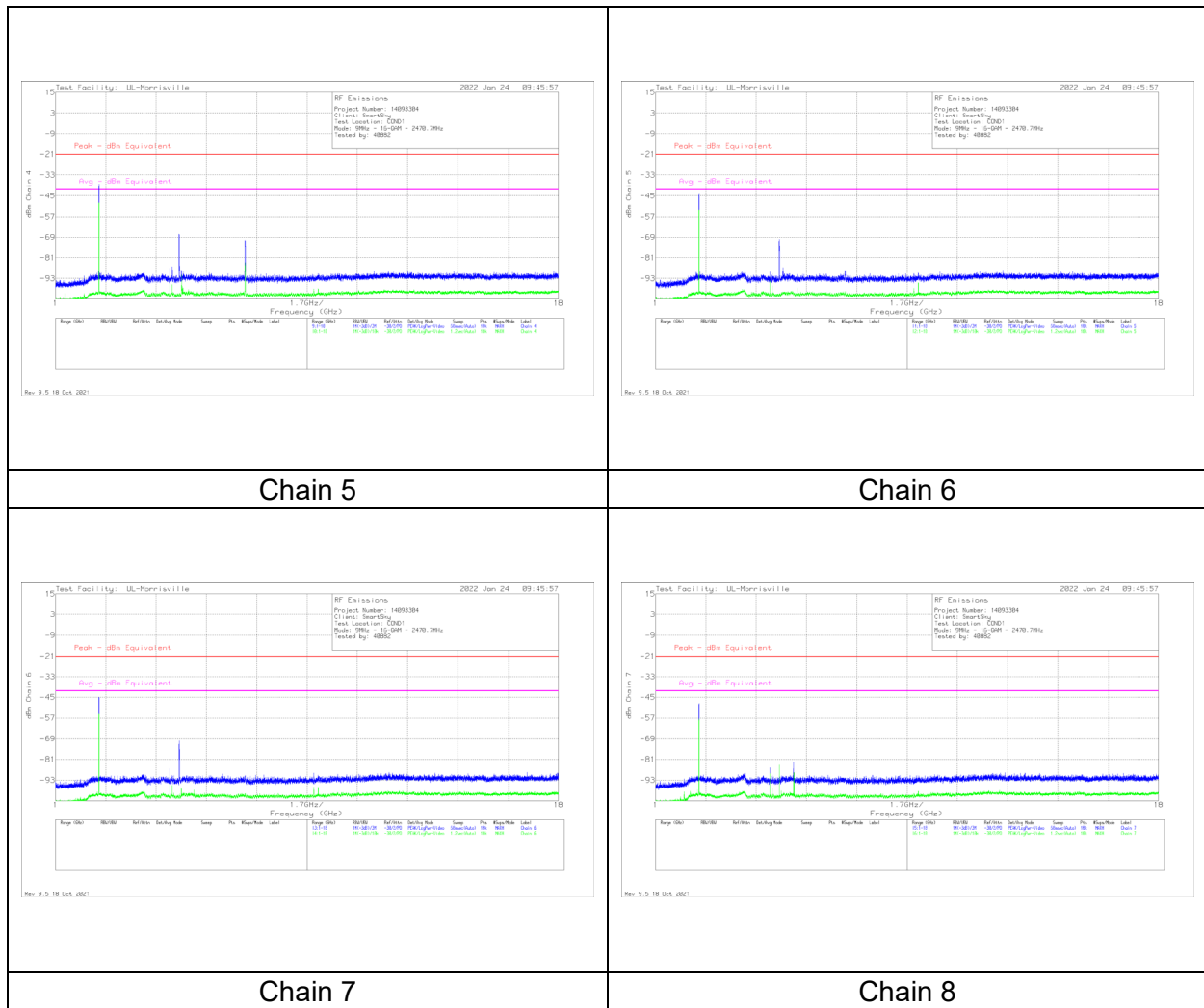


11.8.5. HIGH CHANNEL SPURIOUS: 1-18 GHz

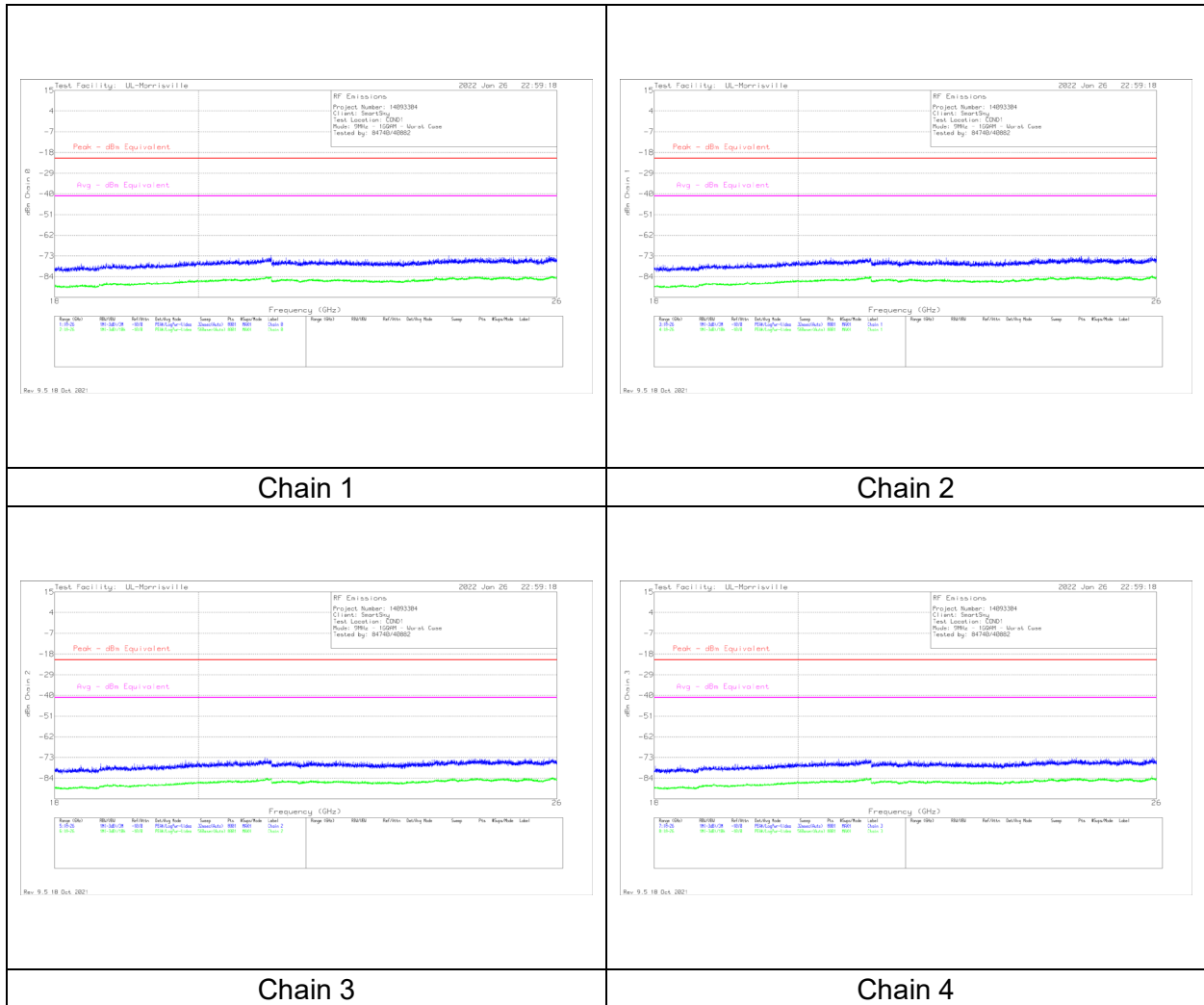




Spurious High Channel Tabular Summed Data, Worse-case Frequency:

| Chain | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | Declared Array Gain | GRB (dB) | Meas. Dist (m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------|---------------------|---------------------------|------------------------|
| Gain (dBi) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 26.8 | 0 | 3 |
| Frequency (GHz) | PK Value Chain 0 (dBm) | PK Value Chain 1 (dBm) | PK Value Chain 2 (dBm) | PK Value Chain 3 (dBm) | PK Value Chain 4 (dBm) | PK Value Chain 5 (dBm) | PK Value Chain 6 (dBm) | PK Value Chain 7 (dBm) | PK EIRP (dBm) | PK E-field (dBuV/m) | PK E-field Limit (dBuV/m) | PK E-field Margin (dB) |
| 5.18 | -70.04 | -93.42 | -93.73 | -94.01 | -67.73 | -70.22 | -73.07 | -94.01 | -37.03 | 58.23 | 74 | -15.77 |
| Frequency (GHz) | AV Value Chain 0 (dBm) | AV Value Chain 1 (dBm) | AV Value Chain 2 (dBm) | AV Value Chain 3 (dBm) | AV Value Chain 4 (dBm) | AV Value Chain 5 (dBm) | AV Value Chain 6 (dBm) | AV Value Chain 7 (dBm) | AV EIRP (dBm) | AV E-field (dBuV/m) | AV E-field Limit (dBuV/m) | AV E-field Margin (dB) |
| 5.19 | -103 | -102.66 | -75.97 | -103.52 | -103.18 | -102.6 | -103.1 | -102.68 | -49.11 | 46.15 | 54 | -7.85 |

11.8.6. WORSE-CASE CHANNEL SPURIOUS: 18-26 GHz

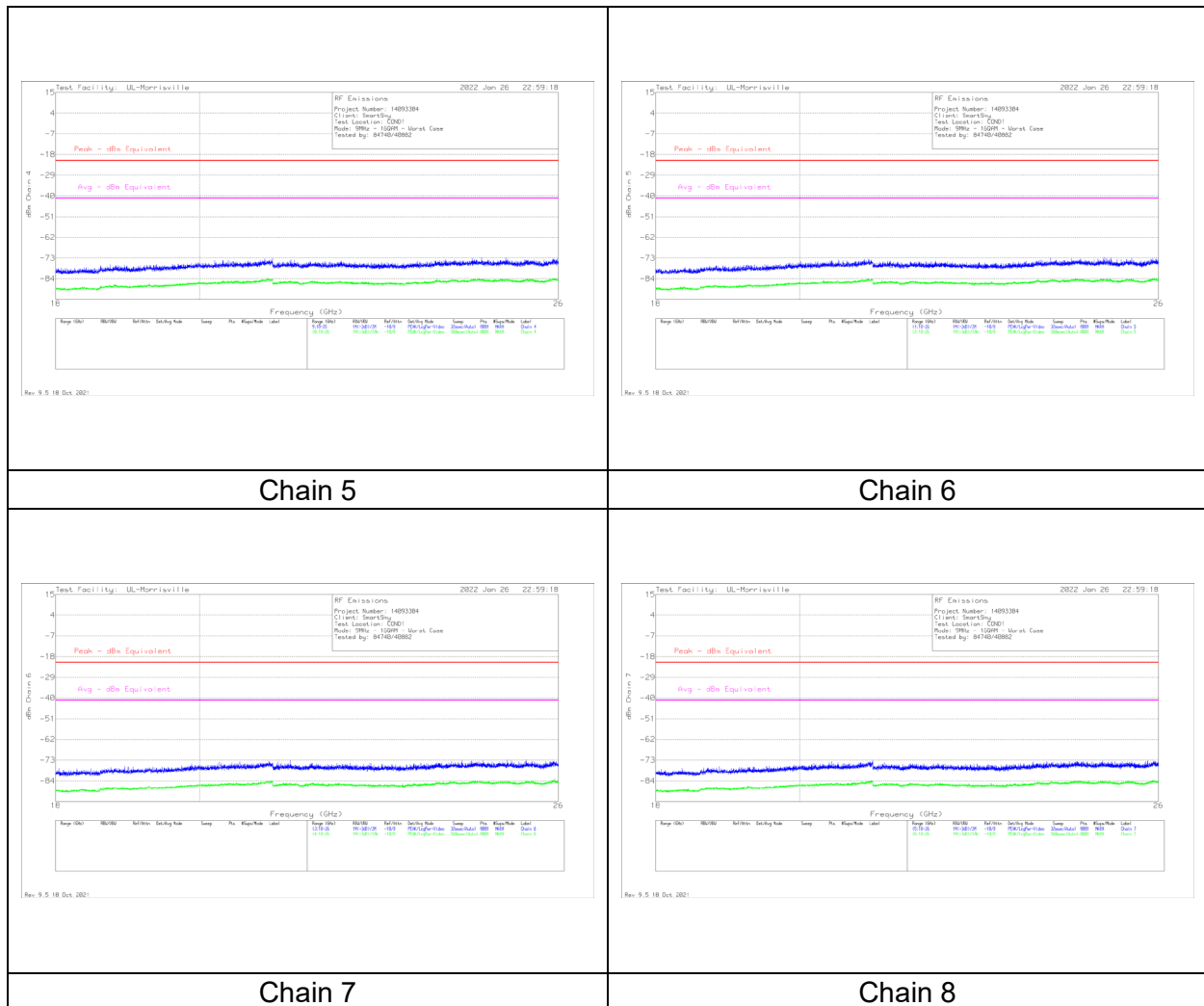


Chain 1

Chain 2

Chain 3

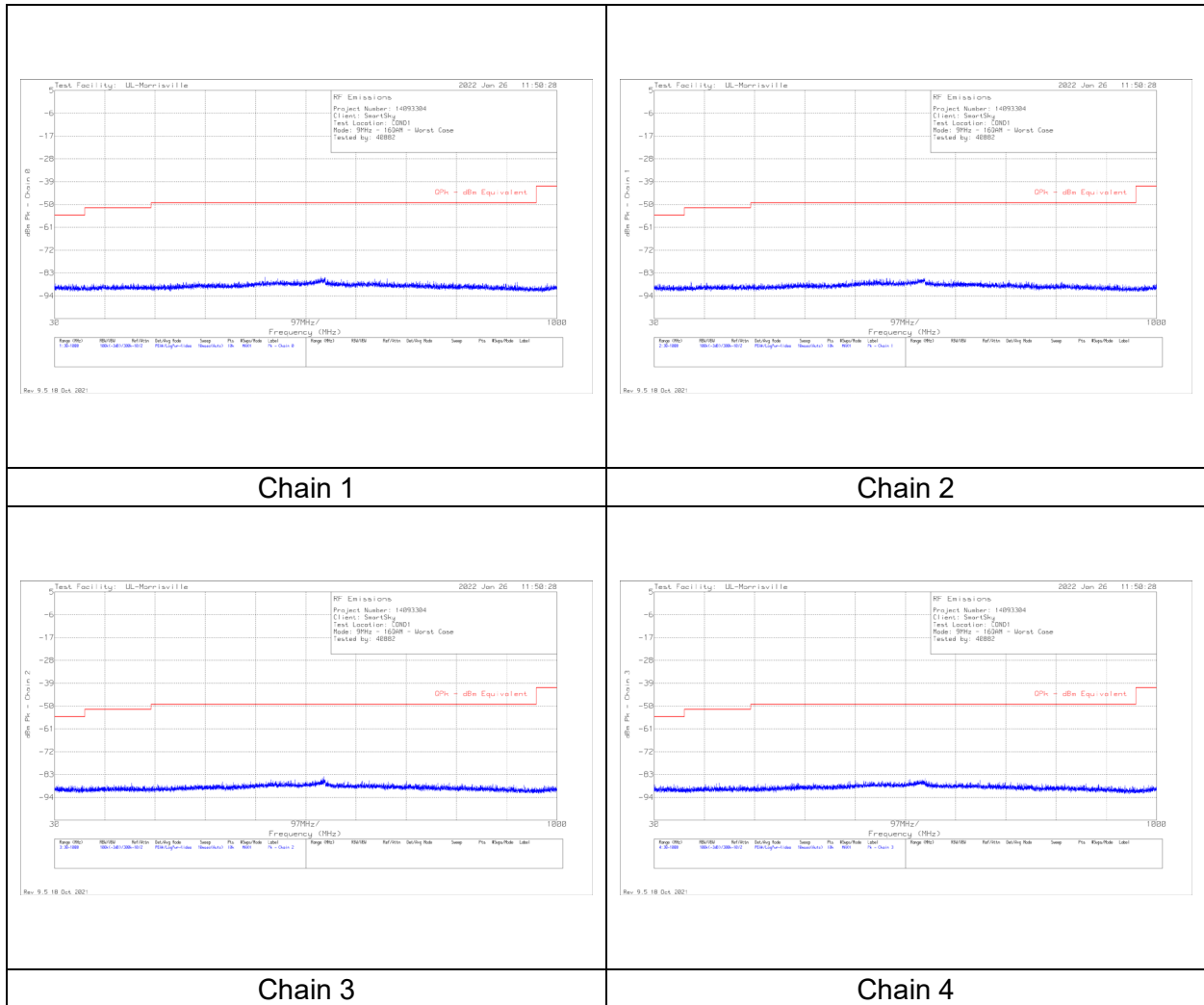
Chain 4

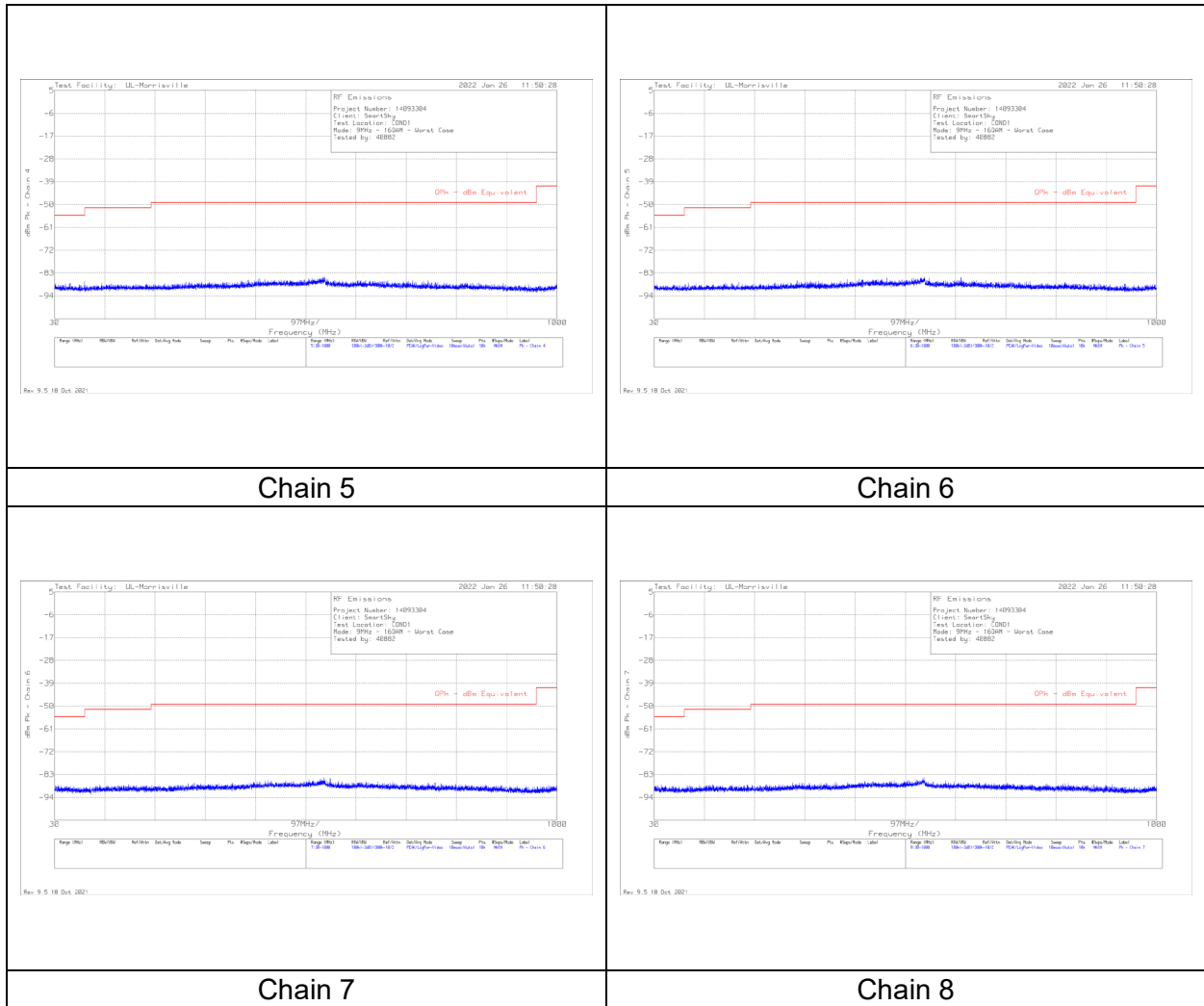


Spurious High Channel Tabular Summed Data, Worse-case Frequency:

| Chain | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | Declared Array Gain (dBi) | GRF (dB) | Meas. Dist (m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------|---------------------------|---------------------------|------------------------|
| Gain (dBi) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 26.8 | 0 | 3 |
| Frequency (GHz) | PK Value Chain 0 (dBm) | PK Value Chain 1 (dBm) | PK Value Chain 2 (dBm) | PK Value Chain 3 (dBm) | PK Value Chain 4 (dBm) | PK Value Chain 5 (dBm) | PK Value Chain 6 (dBm) | PK Value Chain 7 (dBm) | PK EIRP (dBm) | PK E-field (dBuV/m) | PK E-field Limit (dBuV/m) | PK E-field Margin (dB) |
| 25.923 | -74.86 | -74.11 | -73.74 | -75.48 | -73.97 | -75.07 | -74.09 | -74.68 | -38.63 | 56.63 | 74 | -17.37 |
| Frequency (GHz) | AV Value Chain 0 (dBm) | AV Value Chain 1 (dBm) | AV Value Chain 2 (dBm) | AV Value Chain 3 (dBm) | AV Value Chain 4 (dBm) | AV Value Chain 5 (dBm) | AV Value Chain 6 (dBm) | AV Value Chain 7 (dBm) | AV EIRP (dBm) | AV E-field (dBuV/m) | AV E-field Limit (dBuV/m) | AV E-field Margin (dB) |
| 25.908 | -84.28 | -84.25 | -84.29 | -82.71 | -84.16 | -83.45 | -84.16 | -83.69 | -48.01 | 47.25 | 54 | -6.75 |

11.8.7. WORSE-CASE CHANNEL SPURIOUS: 30-1000 MHz





Spurious Summed Data, Worse-case Frequency:

| Chain | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | Declared Array Gain (dBi) | GRF (dB) | Meas. Dist (m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------|---------------------------|---------------------------|------------------------|
| Gain (dBi) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 26.8 | 4.7 | 3 |
| Frequency (MHz) | QP Value Chain 0 (dBm) | QP Value Chain 1 (dBm) | QP Value Chain 2 (dBm) | QP Value Chain 3 (dBm) | QP Value Chain 4 (dBm) | QP Value Chain 5 (dBm) | QP Value Chain 6 (dBm) | QP Value Chain 7 (dBm) | QK EIRP (dBm) | QP E-field (dBuV/m) | QP E-field Limit (dBuV/m) | QP E-field Margin (dB) |
| 545.46 | -92.27 | -92.28 | -92.26 | -92.28 | -92.30 | -92.25 | -92.27 | -92.29 | -51.74 | 43.51 | 46 | -2.49 |

12. RADIATED TEST RESULTS

12.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205, 15.209, 15.247 (d)

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 0.009-0.490 | 2400/F(kHz) @ 300 m | - |
| 0.490-1.705 | 24000/F(kHz) @ 30 m | - |
| 1.705 - 30 | 30 @ 30m | - |
| 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 for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. 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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans and final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz. For average measurements above 1GHz, the resolution bandwidth and video bandwidth are set as described in ANSI C63.10: 2013 for the applicable measurement.

For this evaluation, Reduced Video Bandwidth Averaging was used as duty cycles that are not constant. The worse-case minimum VBW is 20kHz 3RB mode and 10kHz in FRB mode.

The spectrum from 9 kHz to 26 GHz is investigated with the transmitter set to the channels/modes as described in Section 6.5.

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.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

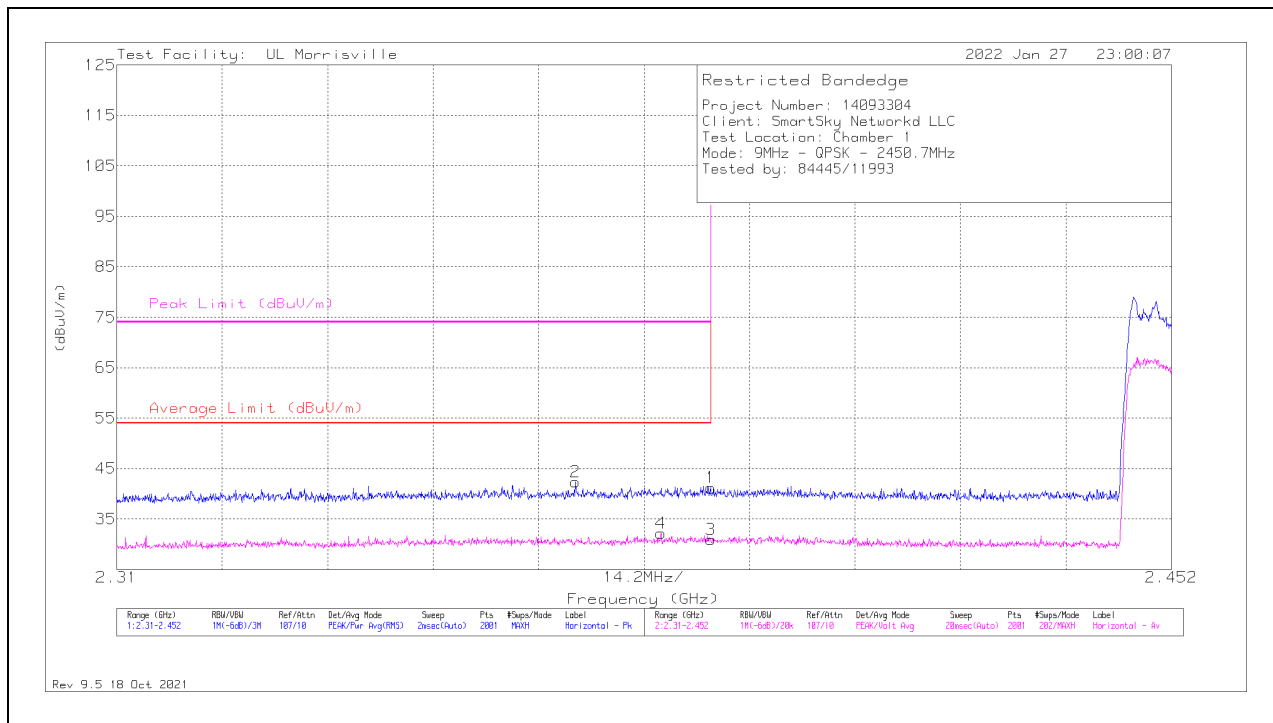
OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

For this testing, all 8 antenna ports were terminated into 50Ω terminations (i.e. cabinet radiated emissions).

12.2. TRANSMITTER 1-18GHz – 3RB CONFIGURATION

12.2.1. TX ABOVE 1 GHz 9 MHz, QPSK MODE IN THE 2.4 GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38995 | 33.27 | Pk | 32.2 | -24.3 | 41.17 | - | - | 74 | -32.83 | 75 | 274 | H |
| 2 | *** 2.37177 | 34.69 | Pk | 32.2 | -24.6 | 42.29 | - | - | 74 | -31.71 | 75 | 274 | H |
| 3 | *** 2.38995 | 23.05 | V1TV | 32.2 | -24.3 | 30.95 | 54 | -23.05 | - | - | 75 | 274 | H |
| 4 | *** 2.38327 | 24.23 | V1TV | 32.3 | -24.4 | 32.13 | 54 | -21.87 | - | - | 75 | 274 | H |

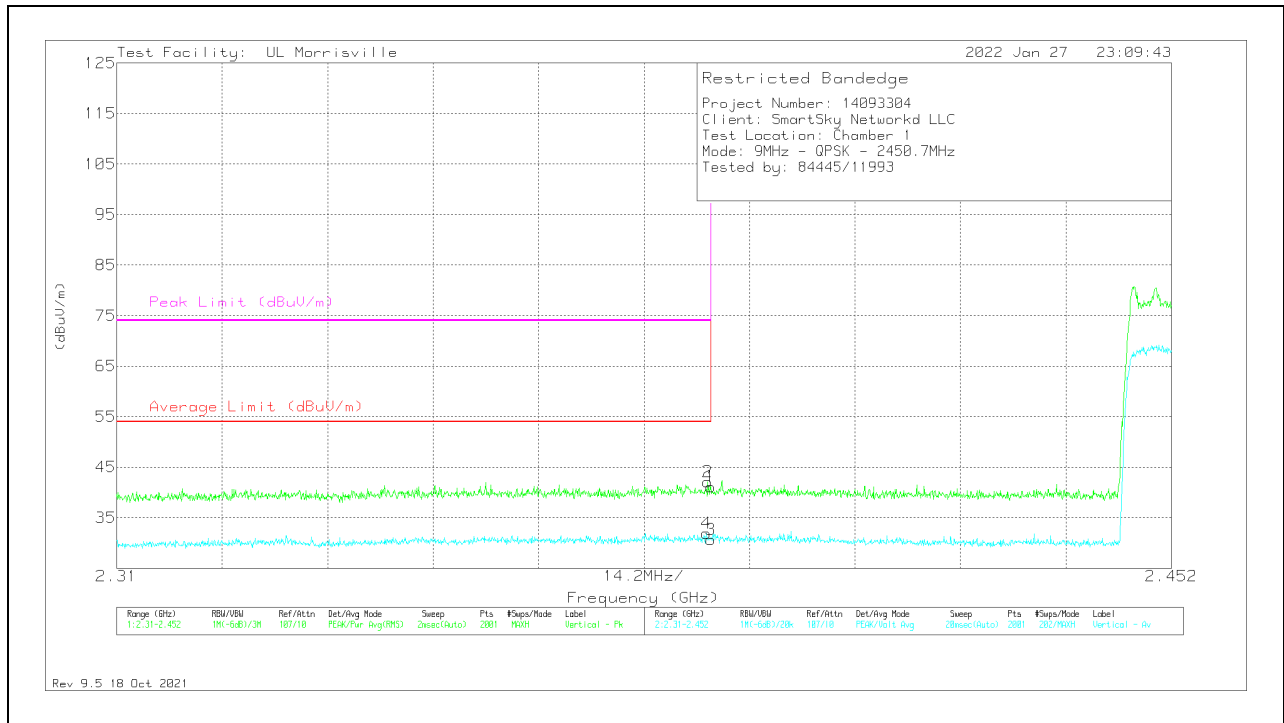
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

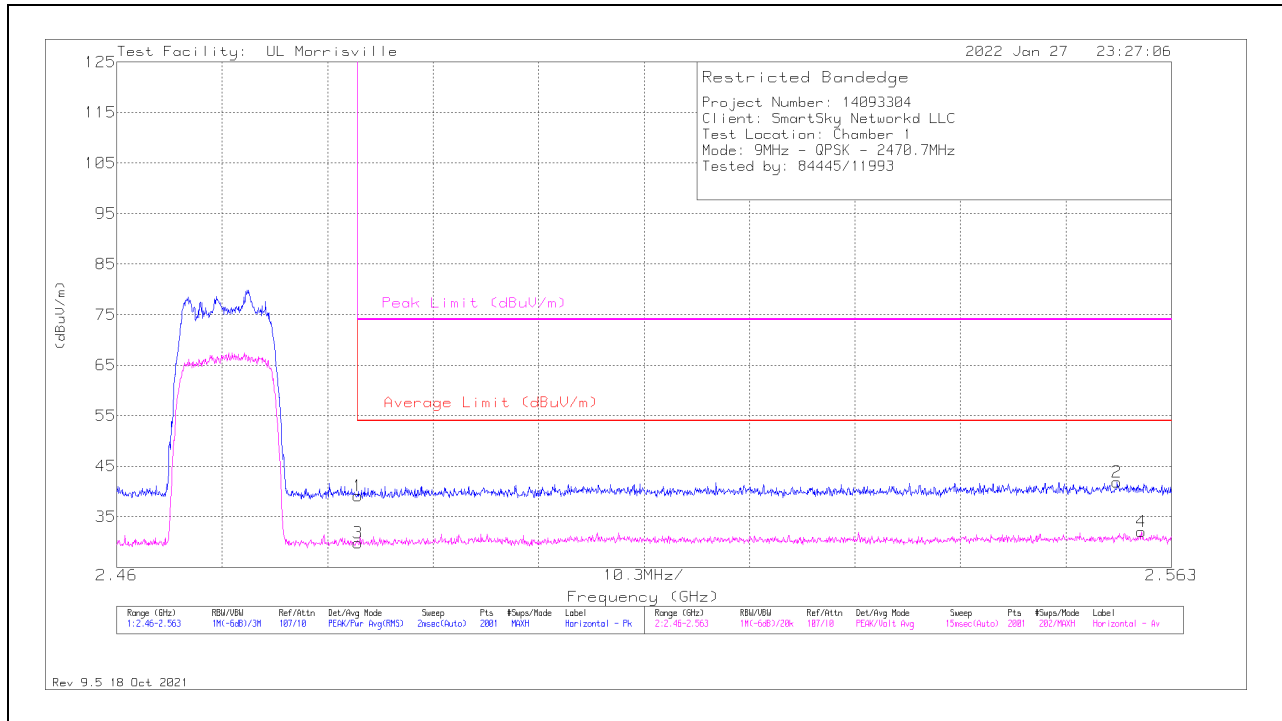


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38995 | 33.24 | Pk | 32.2 | -24.3 | 41.14 | - | - | 74 | -32.86 | 112 | 180 | V |
| 2 | *** 2.38959 | 34.16 | Pk | 32.2 | -24.3 | 42.06 | - | - | 74 | -31.94 | 112 | 180 | V |
| 3 | *** 2.38995 | 22.74 | V1TV | 32.2 | -24.3 | 30.64 | 54 | -23.36 | - | - | 112 | 180 | V |
| 4 | *** 2.38938 | 24.07 | V1TV | 32.2 | -24.3 | 31.97 | 54 | -22.03 | - | - | 112 | 180 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 31.37 | Pk | 32.3 | -24.6 | 39.07 | - | - | 74 | -34.93 | 89 | 206 | H |
| 2 | ** 2.5577 | 33.61 | Pk | 32.4 | -24.2 | 41.81 | - | - | 74 | -32.19 | 89 | 206 | H |
| 3 | *** 2.48354 | 22.13 | V1TV | 32.3 | -24.6 | 29.83 | 54 | -24.17 | - | - | 89 | 206 | H |
| 4 | ** 2.56006 | 23.86 | V1TV | 32.4 | -24.2 | 32.06 | 54 | -21.94 | - | - | 89 | 206 | H |

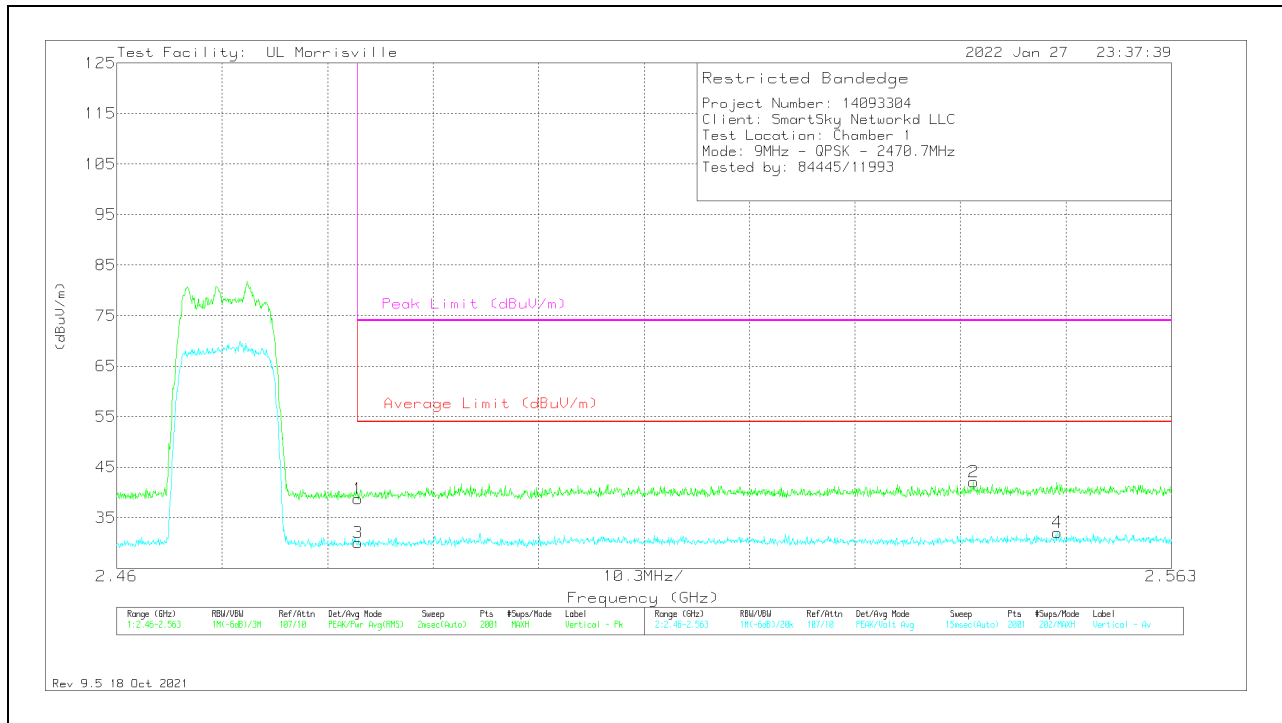
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

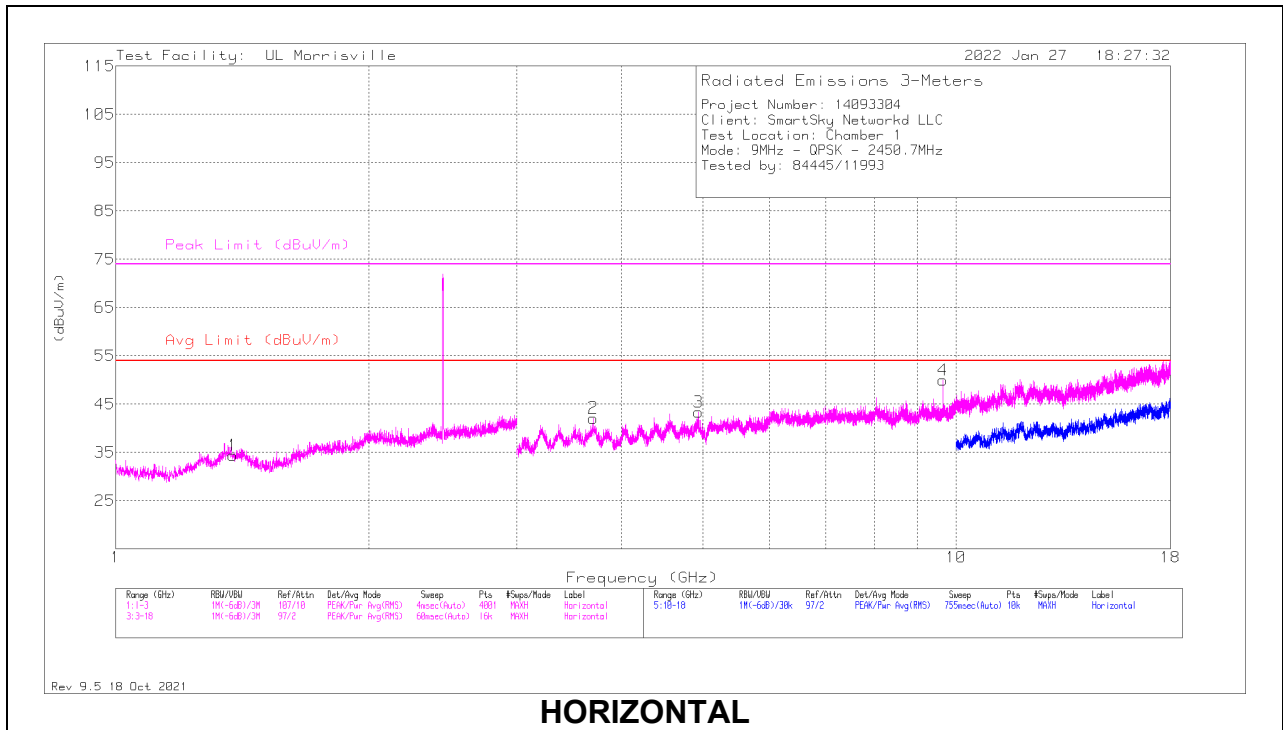


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 31.05 | Pk | 32.3 | -24.6 | 38.75 | - | - | 74 | -35.25 | 114 | 176 | V |
| 2 | ** 2.54369 | 33.93 | PK | 32.4 | -24.2 | 42.13 | - | - | 74 | -31.87 | 114 | 176 | V |
| 3 | *** 2.48354 | 22.33 | V1TV | 32.3 | -24.6 | 30.03 | 54 | -23.97 | - | - | 114 | 176 | V |
| 4 | ** 2.55188 | 24 | V1TV | 32.4 | -24.3 | 32.1 | 54 | -21.9 | - | - | 114 | 176 | V |

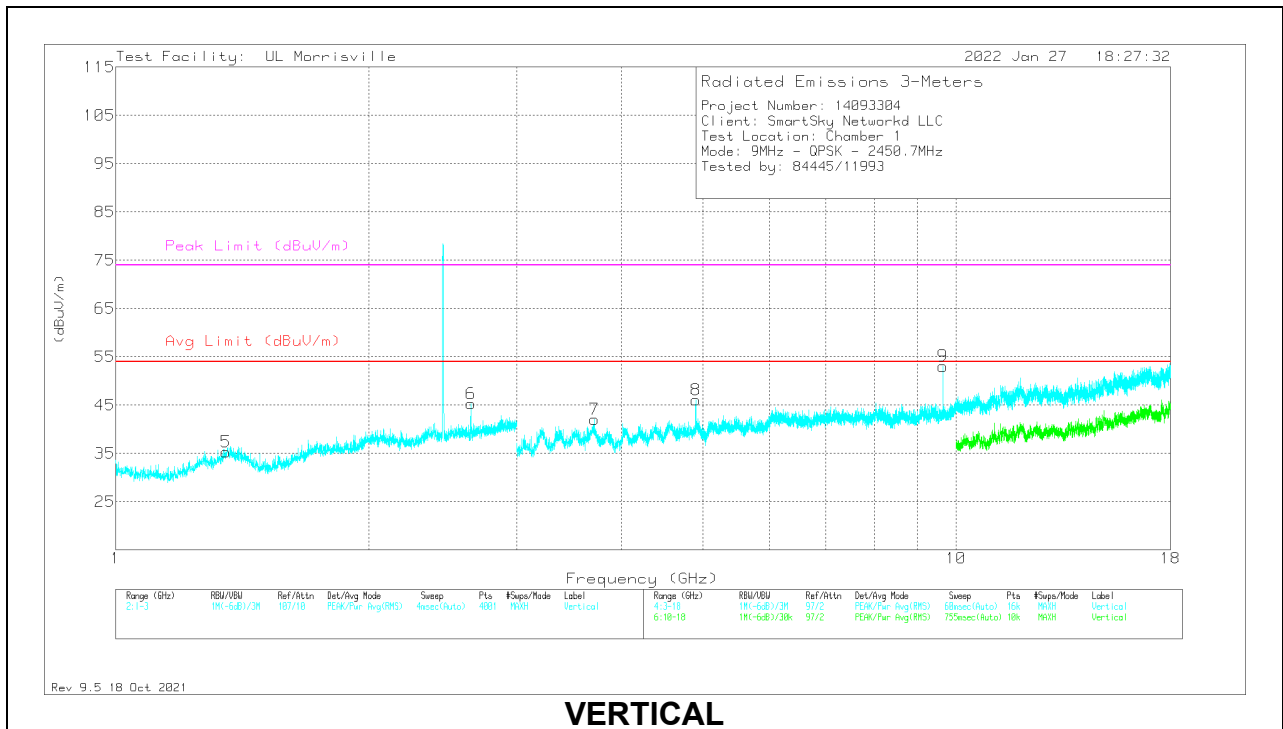
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

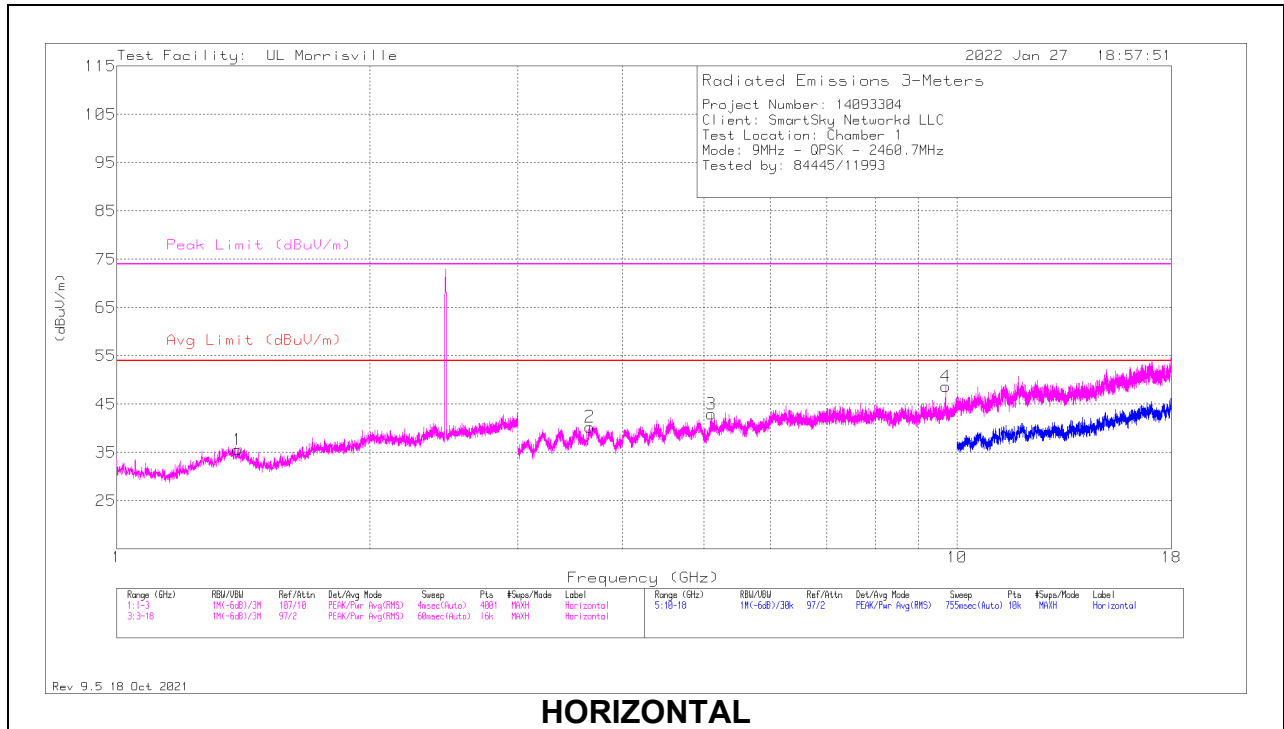
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.378 | 30.63 | Pk | 29.4 | -25.6 | 34.43 | 54 | -19.57 | 74 | -39.57 | 0-360 | 101 | H |
| 5 | *** 1.352 | 31.21 | Pk | 29.6 | -25.5 | 35.31 | 54 | -18.69 | 74 | -38.69 | 0-360 | 101 | V |
| 6 | ** 2.646 | 37.2 | Pk | 32.3 | -24.2 | 45.3 | 54 | -8.7 | 74 | -28.7 | 0-360 | 101 | V |
| 2 | *** 3.70031 | 41.03 | Pk | 33.3 | -32.2 | 42.13 | 54 | -11.87 | 74 | -31.87 | 0-360 | 199 | H |
| 7 | *** 3.71063 | 40.92 | Pk | 33.3 | -32.1 | 42.12 | 54 | -11.88 | 74 | -31.88 | 0-360 | 200 | V |
| 8 | *** 4.90125 | 43.42 | Pk | 33.9 | -31.2 | 46.12 | 54 | -7.88 | 74 | -27.88 | 0-360 | 200 | V |
| 3 | *** 4.94156 | 41.84 | Pk | 33.9 | -32.4 | 43.34 | 54 | -10.66 | 74 | -30.66 | 0-360 | 199 | H |
| 4 | 9.65156 | 41.73 | Pk | 36.6 | -28.3 | 50.03 | - | - | - | - | 0-360 | 199 | H |
| 9 | 9.65156 | 44.74 | Pk | 36.6 | -28.3 | 53.04 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

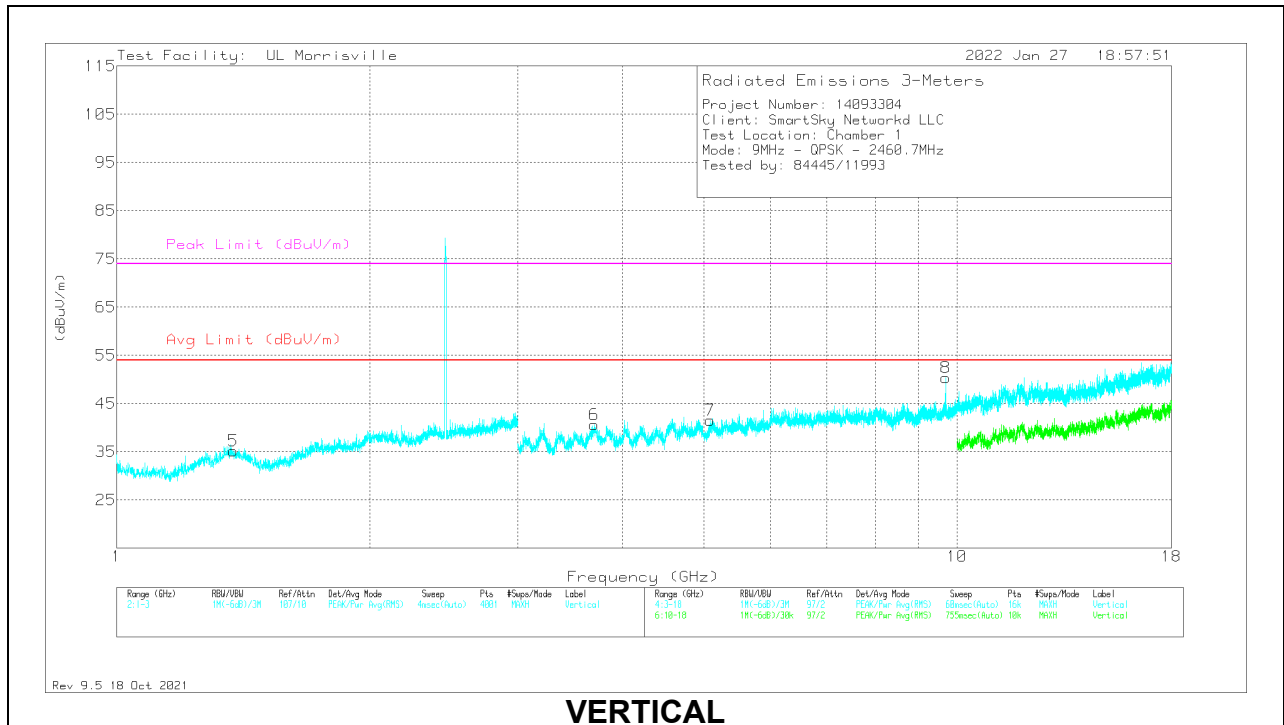
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



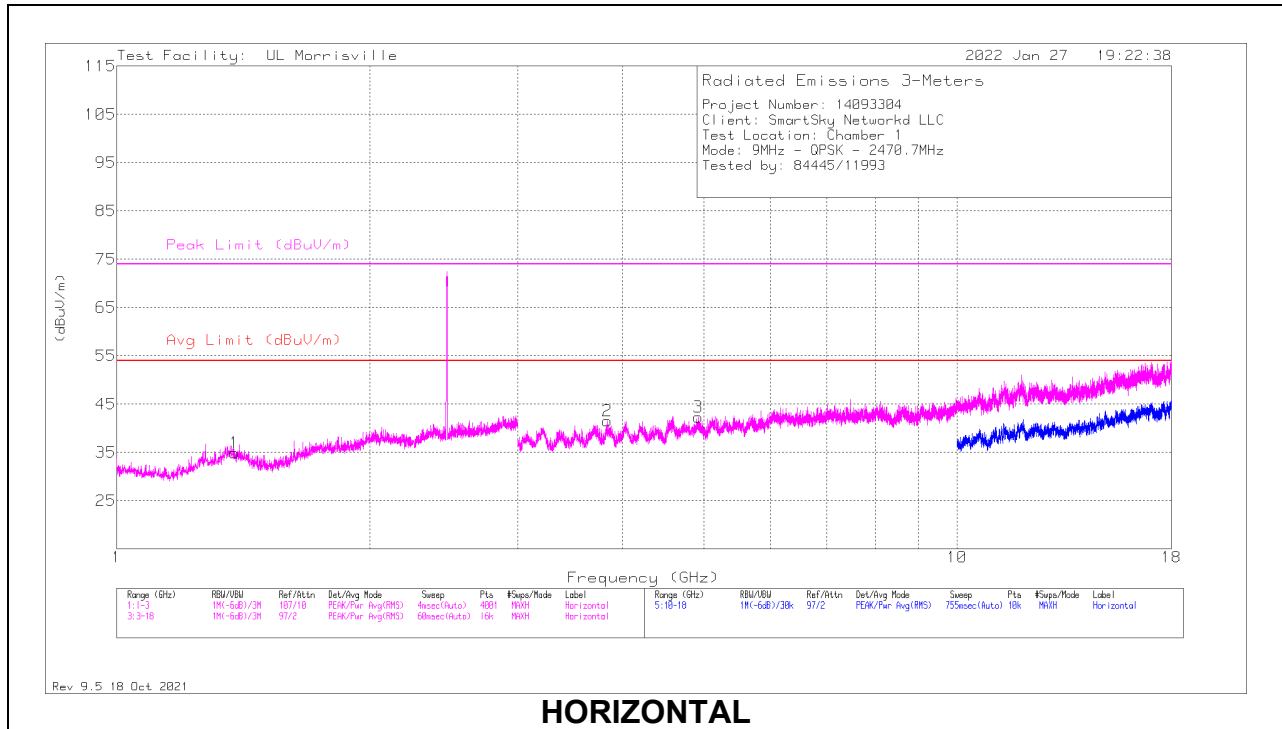
VERTICAL

RADIATED EMISSIONS

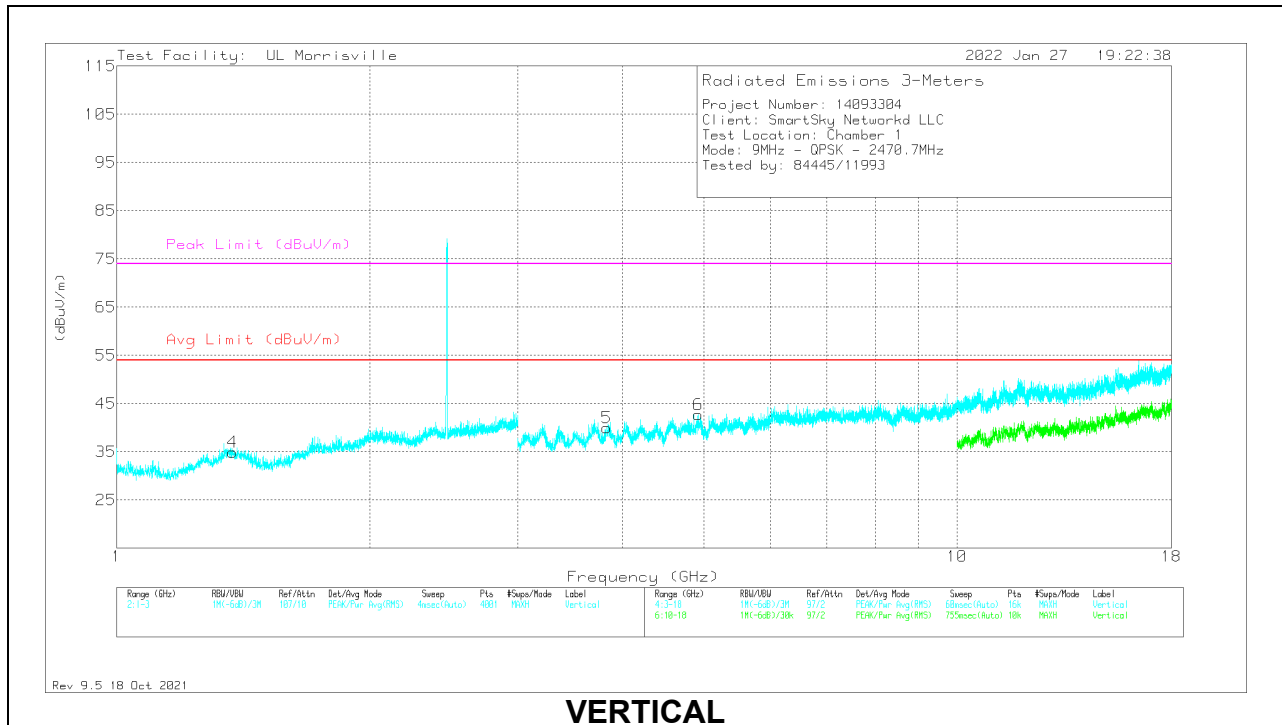
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 1.393 | 31.68 | Pk | 29.3 | -25.4 | 35.58 | 54 | -18.42 | 74 | -38.42 | 0-360 | 101 | H |
| 5 | * ** 1.3765 | 31.23 | Pk | 29.5 | -25.6 | 35.13 | 54 | -18.87 | 74 | -38.87 | 0-360 | 101 | V |
| 2 | * ** 3.65719 | 38.41 | Pk | 33.1 | -31.2 | 40.31 | 54 | -13.69 | 74 | -33.69 | 0-360 | 199 | H |
| 6 | * ** 3.70125 | 39.41 | Pk | 33.3 | -32.1 | 40.61 | 54 | -13.39 | 74 | -33.39 | 0-360 | 200 | V |
| 7 | * ** 5.08406 | 39.09 | Pk | 34 | -31.6 | 41.49 | 54 | -12.51 | 74 | -32.51 | 0-360 | 200 | V |
| 3 | * ** 5.10281 | 40.33 | Pk | 34 | -31.3 | 43.03 | 54 | -10.97 | 74 | -30.97 | 0-360 | 101 | H |
| 4 | 9.69094 | 39.33 | Pk | 36.7 | -27.4 | 48.63 | - | - | - | - | 0-360 | 101 | H |
| 8 | 9.69094 | 41.06 | Pk | 36.7 | -27.4 | 50.36 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

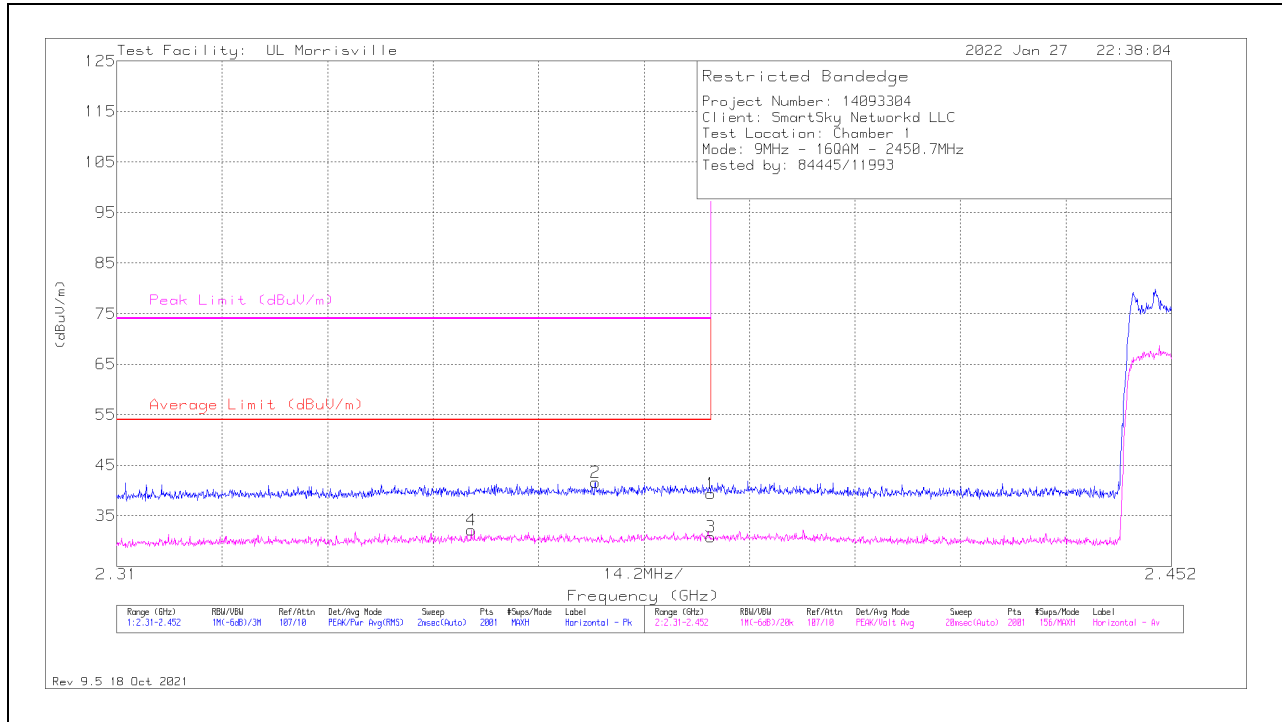
RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 1.381 | 31.15 | Pk | 29.4 | -25.6 | 34.95 | 54 | -19.05 | 74 | -39.05 | 0-360 | 200 | H |
| 4 | * ** 1.374 | 31.04 | Pk | 29.5 | -25.6 | 34.94 | 54 | -19.06 | 74 | -39.06 | 0-360 | 200 | V |
| 5 | * ** 3.82688 | 38.58 | Pk | 33.3 | -31.9 | 39.98 | 54 | -14.02 | 74 | -34.02 | 0-360 | 101 | V |
| 2 | * ** 3.83813 | 40.2 | Pk | 33.3 | -32 | 41.5 | 54 | -12.5 | 74 | -32.5 | 0-360 | 200 | H |
| 6 | * ** 4.92094 | 40.39 | Pk | 33.9 | -31.6 | 42.69 | 54 | -11.31 | 74 | -31.31 | 0-360 | 200 | V |
| 3 | * ** 4.92281 | 40.1 | Pk | 33.9 | -31.7 | 42.3 | 54 | -11.7 | 74 | -31.7 | 0-360 | 101 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

12.2.2. TX ABOVE 1 GHz 9 MHz, 16-QAM MODE IN THE 2.4 GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38995 | 31.47 | Pk | 32.2 | -24.3 | 39.37 | - | - | 74 | -34.63 | 80 | 288 | H |
| 2 | *** 2.37447 | 34.02 | Pk | 32.3 | -24.7 | 41.62 | - | - | 74 | -32.38 | 80 | 288 | H |
| 3 | *** 2.38995 | 22.9 | V1TV | 32.2 | -24.3 | 30.8 | 54 | -23.2 | - | - | 80 | 288 | H |
| 4 | *** 2.35771 | 24.41 | V1TV | 32.2 | -24.5 | 32.11 | 54 | -21.89 | - | - | 80 | 288 | H |

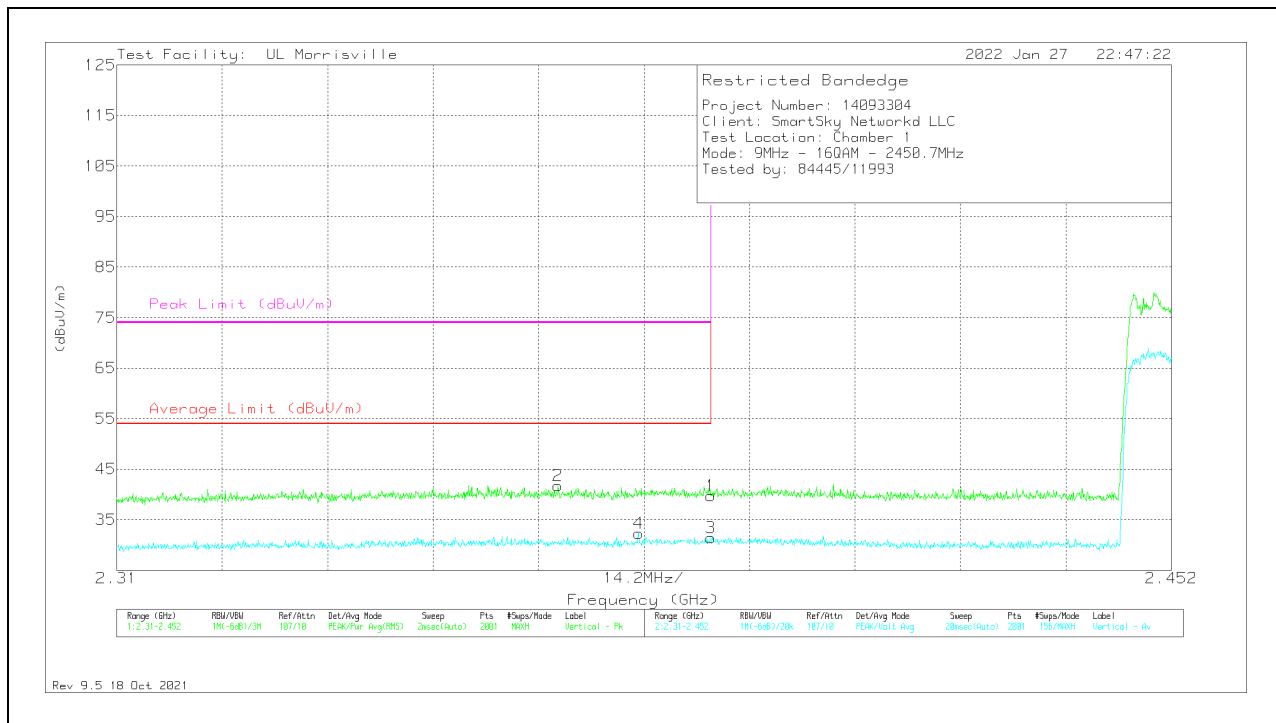
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

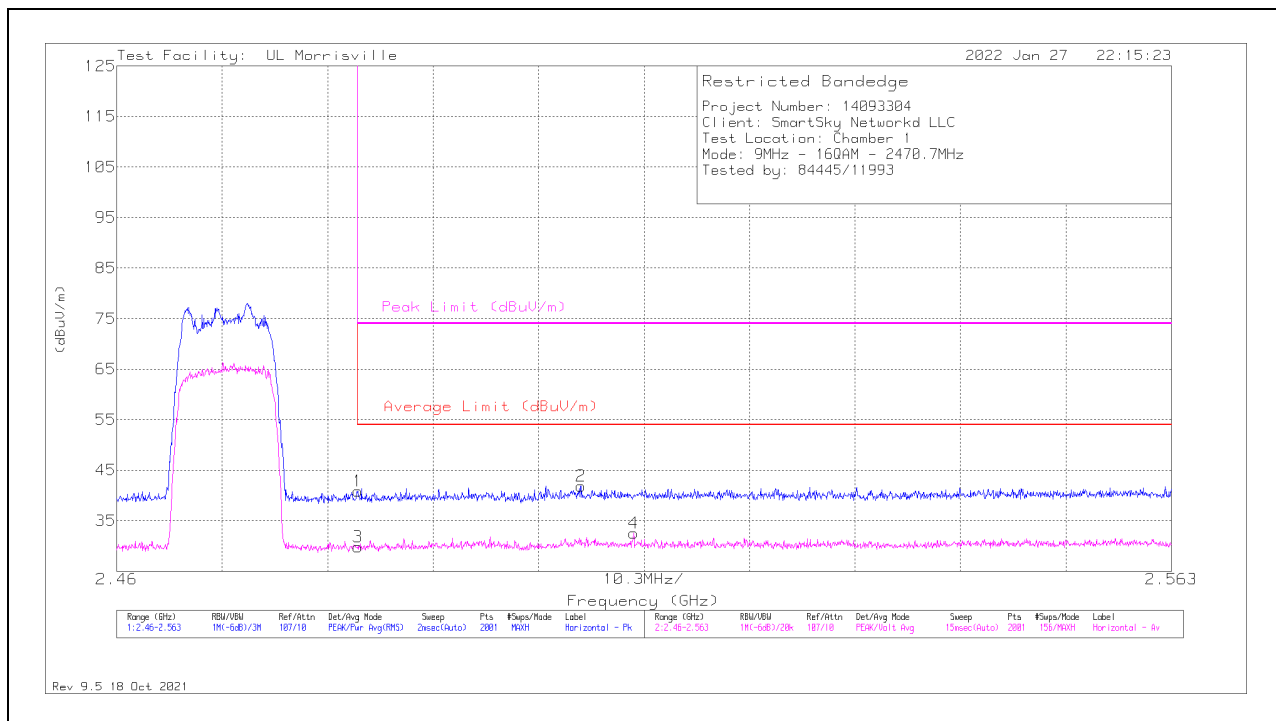


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38995 | 31.86 | Pk | 32.2 | -24.3 | 39.76 | - | - | 74 | -34.24 | 106 | 287 | V |
| 2 | ** 2.36943 | 34.17 | Pk | 32.2 | -24.6 | 41.77 | - | - | 74 | -32.23 | 106 | 287 | V |
| 3 | *** 2.38995 | 23.47 | V1TV | 32.2 | -24.3 | 31.37 | 54 | -22.63 | - | - | 106 | 287 | V |
| 4 | ** 2.38029 | 24.44 | V1TV | 32.3 | -24.5 | 32.24 | 54 | -21.76 | - | - | 106 | 287 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

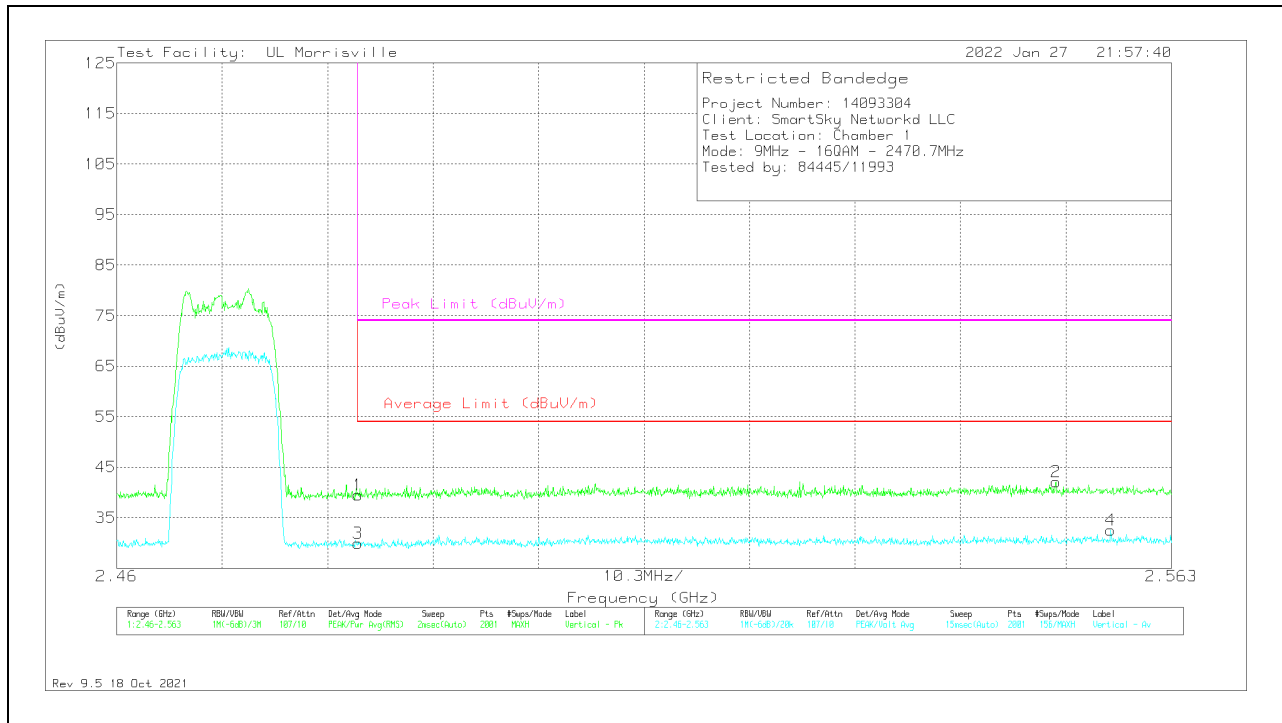
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 33.21 | Pk | 32.3 | -24.6 | 40.91 | - | - | 74 | -33.09 | 206 | 101 | H |
| 2 | ** 2.50532 | 33.61 | Pk | 32.4 | -24.2 | 41.81 | - | - | 74 | -32.19 | 206 | 101 | H |
| 3 | *** 2.48354 | 22.09 | V1TV | 32.3 | -24.6 | 29.79 | 54 | -24.21 | - | - | 206 | 101 | H |
| 4 | ** 2.51047 | 24.46 | V1TV | 32.4 | -24.3 | 32.56 | 54 | -21.44 | - | - | 206 | 101 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

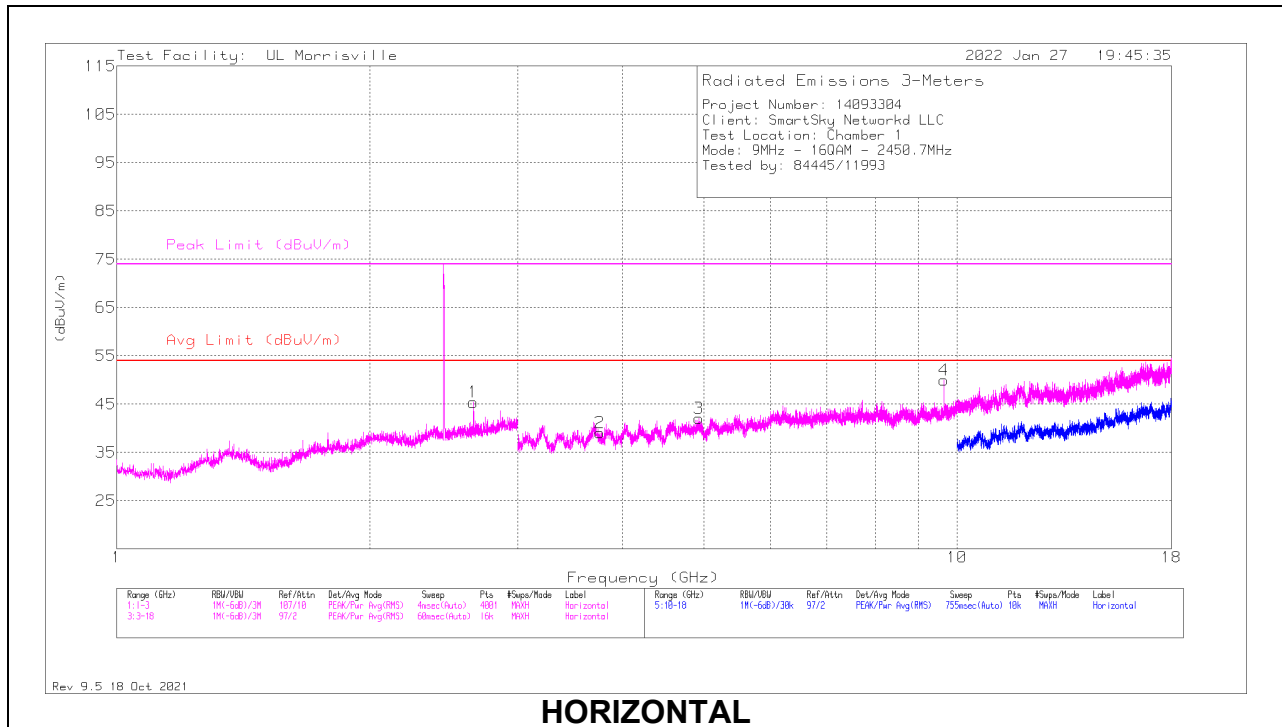


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 31.75 | Pk | 32.3 | -24.6 | 39.45 | - | - | 74 | -34.55 | 28 | 104 | V |
| 2 | ** 2.55172 | 34.04 | Pk | 32.4 | -24.3 | 42.14 | - | - | 74 | -31.86 | 28 | 104 | V |
| 3 | *** 2.48354 | 22.23 | V1TV | 32.3 | -24.6 | 29.93 | 54 | -24.07 | - | - | 28 | 104 | V |
| 4 | ** 2.55708 | 24.32 | V1TV | 32.4 | -24.2 | 32.52 | 54 | -21.48 | - | - | 28 | 104 | V |

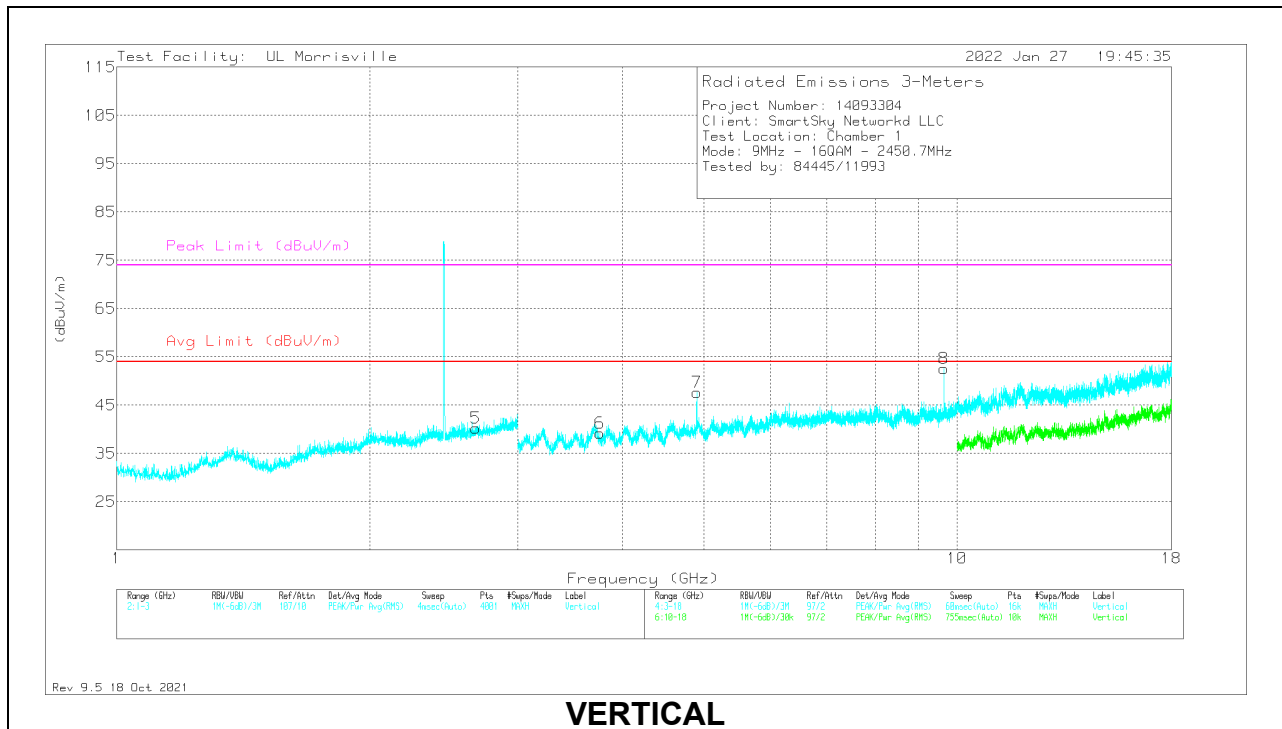
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



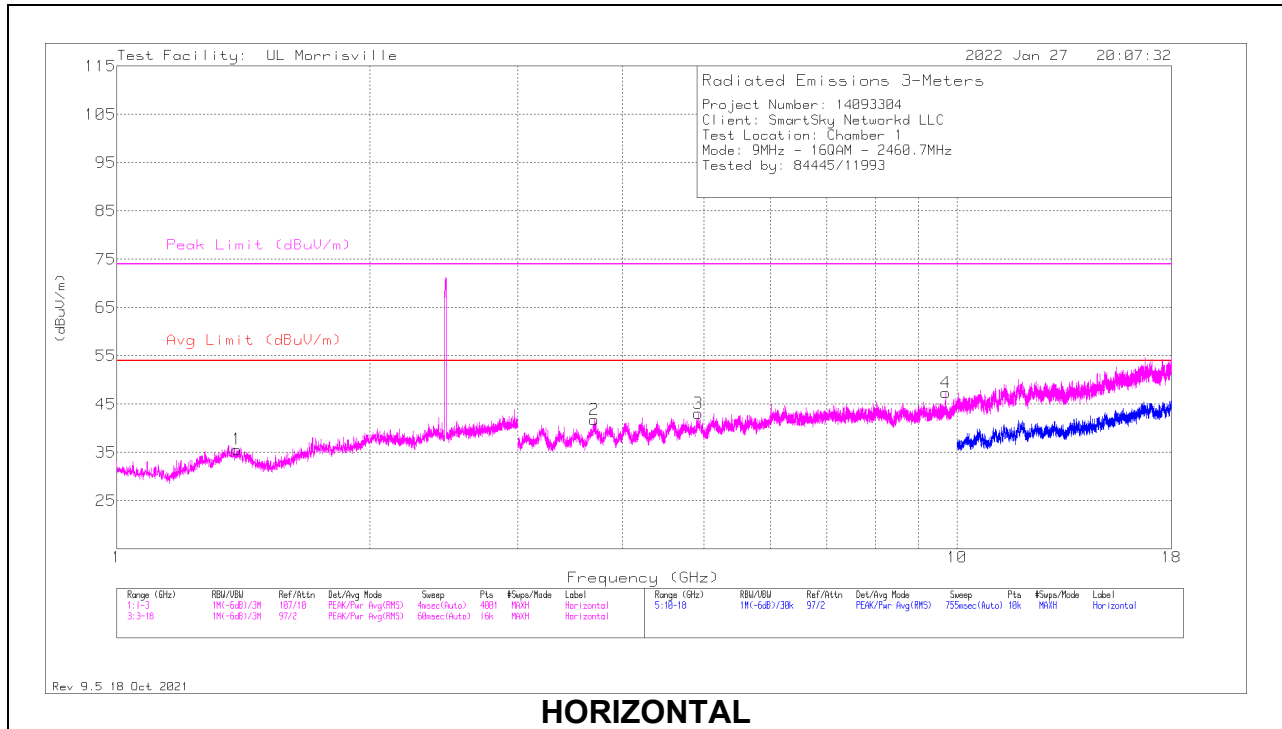
VERTICAL

RADIATED EMISSIONS

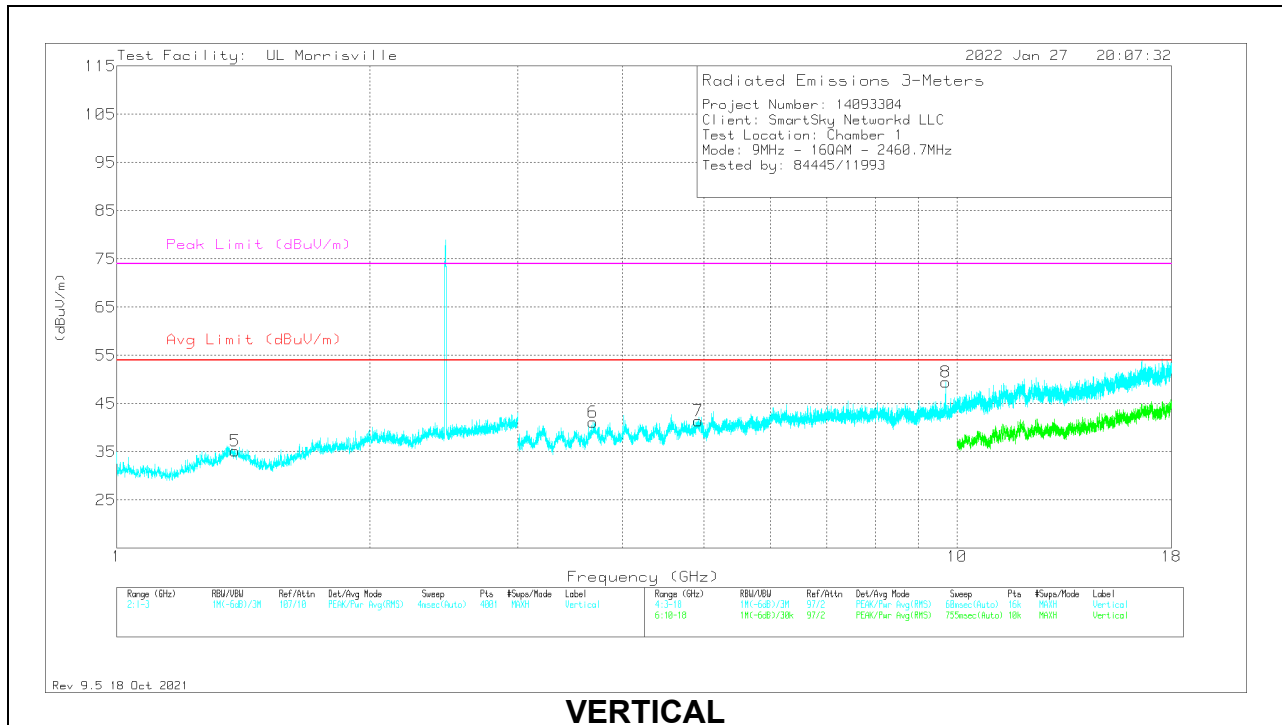
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.656 | 37.38 | Pk | 32.3 | -24.3 | 45.38 | 54 | -8.62 | 74 | -28.62 | 0-360 | 101 | H |
| 5 | * ** 2.6745 | 32.31 | Pk | 32.1 | -24.2 | 40.21 | 54 | -13.79 | 74 | -33.79 | 0-360 | 101 | V |
| 2 | * ** 3.75844 | 38.91 | Pk | 33.3 | -33.1 | 39.11 | 54 | -14.89 | 74 | -34.89 | 0-360 | 200 | H |
| 6 | * ** 3.76031 | 39.02 | Pk | 33.3 | -33.1 | 39.22 | 54 | -14.78 | 74 | -34.78 | 0-360 | 200 | V |
| 7 | * ** 4.90125 | 44.91 | Pk | 33.9 | -31.2 | 47.61 | 54 | -6.39 | 74 | -26.39 | 0-360 | 200 | V |
| 3 | * ** 4.9275 | 39.94 | Pk | 33.9 | -31.8 | 42.04 | 54 | -11.96 | 74 | -31.96 | 0-360 | 101 | H |
| 4 | 9.65063 | 41.64 | Pk | 36.6 | -28.2 | 50.04 | - | - | - | - | 0-360 | 200 | H |
| 8 | 9.65156 | 44.34 | Pk | 36.6 | -28.3 | 52.64 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

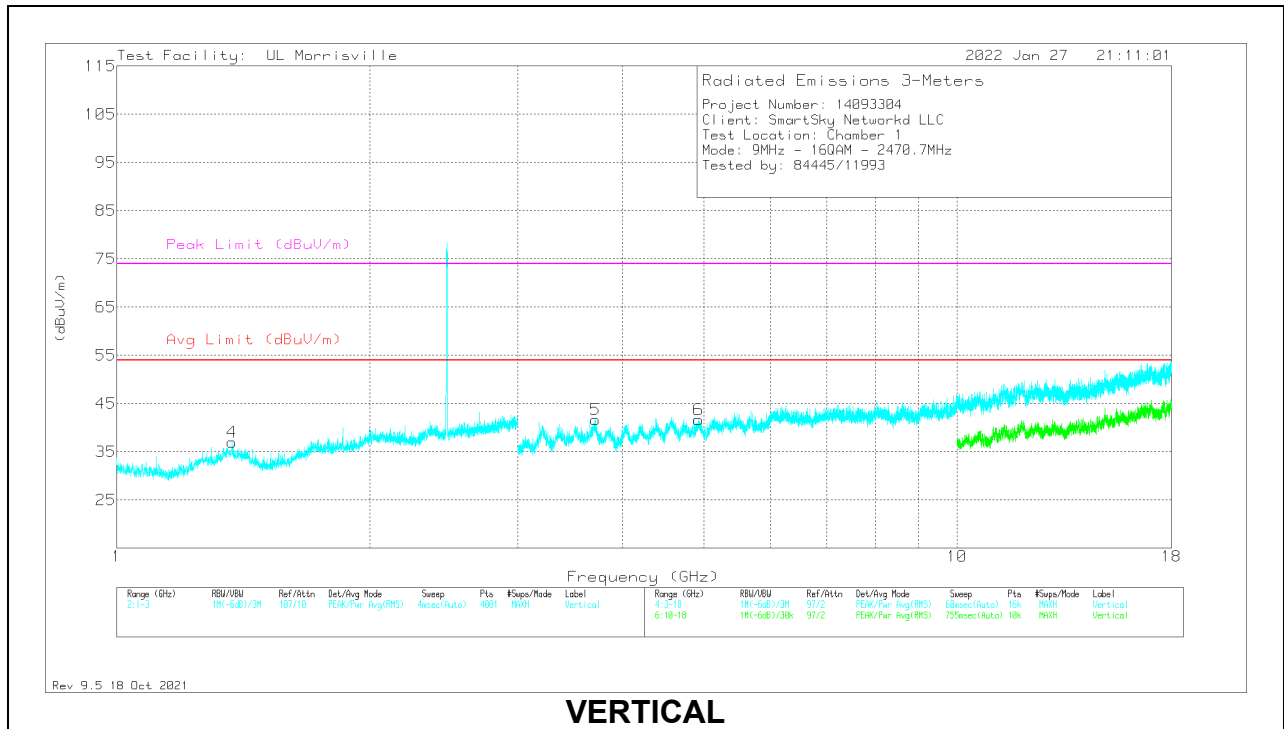
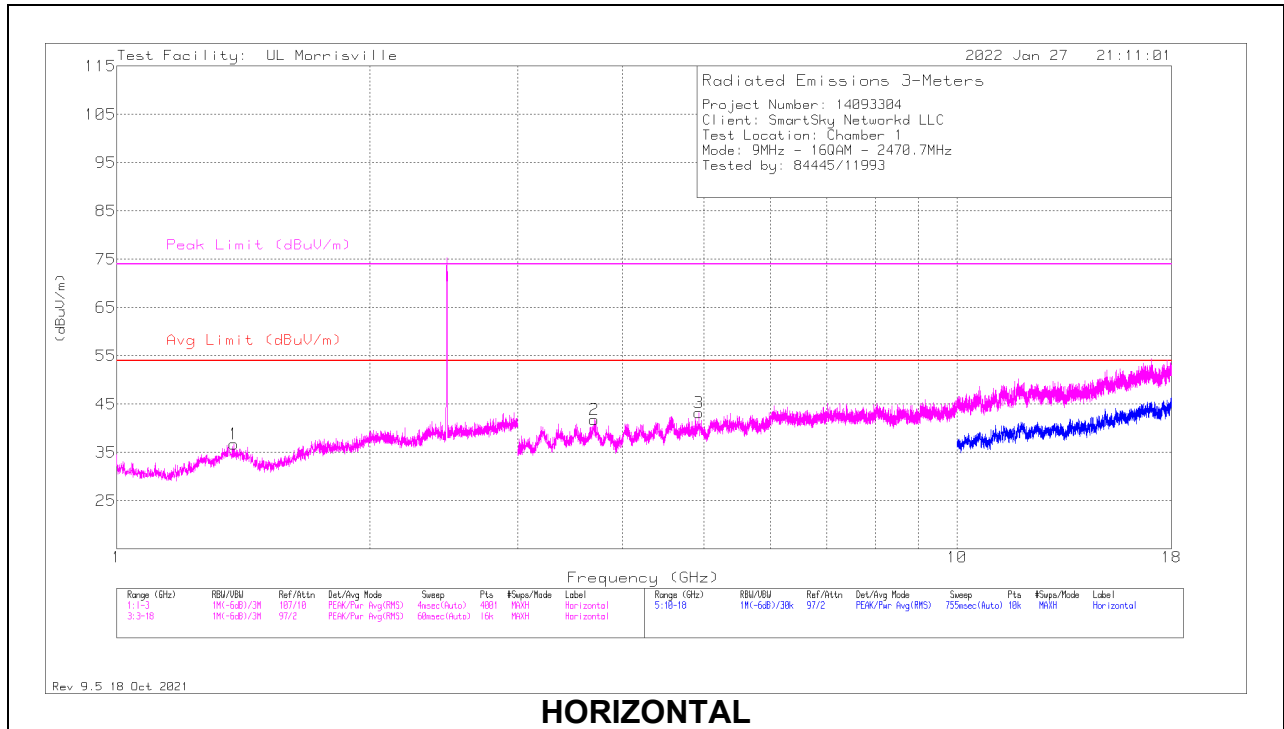
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.3895 | 31.94 | Pk | 29.3 | -25.6 | 35.64 | 54 | -18.36 | 74 | -38.36 | 0-360 | 200 | H |
| 5 | *** 1.383 | 31.47 | Pk | 29.4 | -25.7 | 35.17 | 54 | -18.83 | 74 | -38.83 | 0-360 | 101 | V |
| 6 | *** 3.68625 | 39.91 | Pk | 33.3 | -32.1 | 41.11 | 54 | -12.89 | 74 | -32.89 | 0-360 | 200 | V |
| 2 | *** 3.70031 | 40.75 | Pk | 33.3 | -32.2 | 41.85 | 54 | -12.15 | 74 | -32.15 | 0-360 | 200 | H |
| 3 | *** 4.91813 | 40.7 | Pk | 33.9 | -31.5 | 43.1 | 54 | -10.9 | 74 | -30.9 | 0-360 | 200 | H |
| 7 | *** 4.91906 | 39 | Pk | 33.9 | -31.5 | 41.4 | 54 | -12.6 | 74 | -32.6 | 0-360 | 200 | V |
| 4 | 9.69094 | 38.12 | Pk | 36.7 | -27.4 | 47.42 | - | - | - | - | 0-360 | 200 | H |
| 8 | 9.69094 | 40.16 | Pk | 36.7 | -27.4 | 49.46 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.3775 | 32.89 | Pk | 29.4 | -25.6 | 36.69 | 54 | -17.31 | 74 | -37.31 | 0-360 | 200 | H |
| 4 | ** 1.371 | 32.77 | Pk | 29.6 | -25.4 | 36.97 | 54 | -17.03 | 74 | -37.03 | 0-360 | 200 | V |
| 2 | *** 3.70031 | 40.66 | Pk | 33.3 | -32.2 | 41.76 | 54 | -12.24 | 74 | -32.24 | 0-360 | 101 | H |
| 5 | *** 3.71625 | 40.7 | Pk | 33.3 | -32.3 | 41.7 | 54 | -12.3 | 74 | -32.3 | 0-360 | 200 | V |
| 6 | *** 4.92563 | 39.59 | Pk | 33.9 | -31.8 | 41.69 | 54 | -12.31 | 74 | -32.31 | 0-360 | 200 | V |
| 3 | *** 4.93219 | 41.12 | Pk | 33.9 | -31.8 | 43.22 | 54 | -10.78 | 74 | -30.78 | 0-360 | 200 | H |

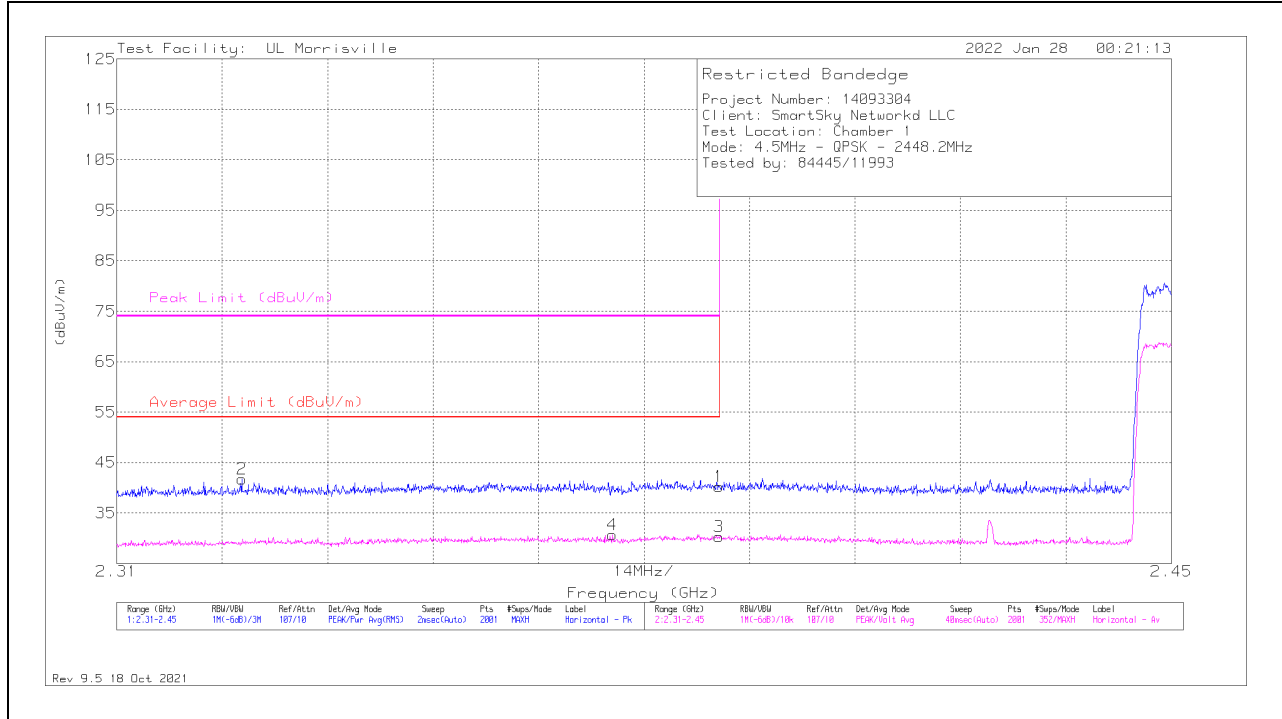
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

12.3. TRANSMITTER 1-18GHz – FRB CONFIGURATION

12.3.1. TX ABOVE 1 GHz 4.5MHz, QPSK MODE IN THE 2.4 GHz BAND

BANDEDGE (LOW CHANNEL)

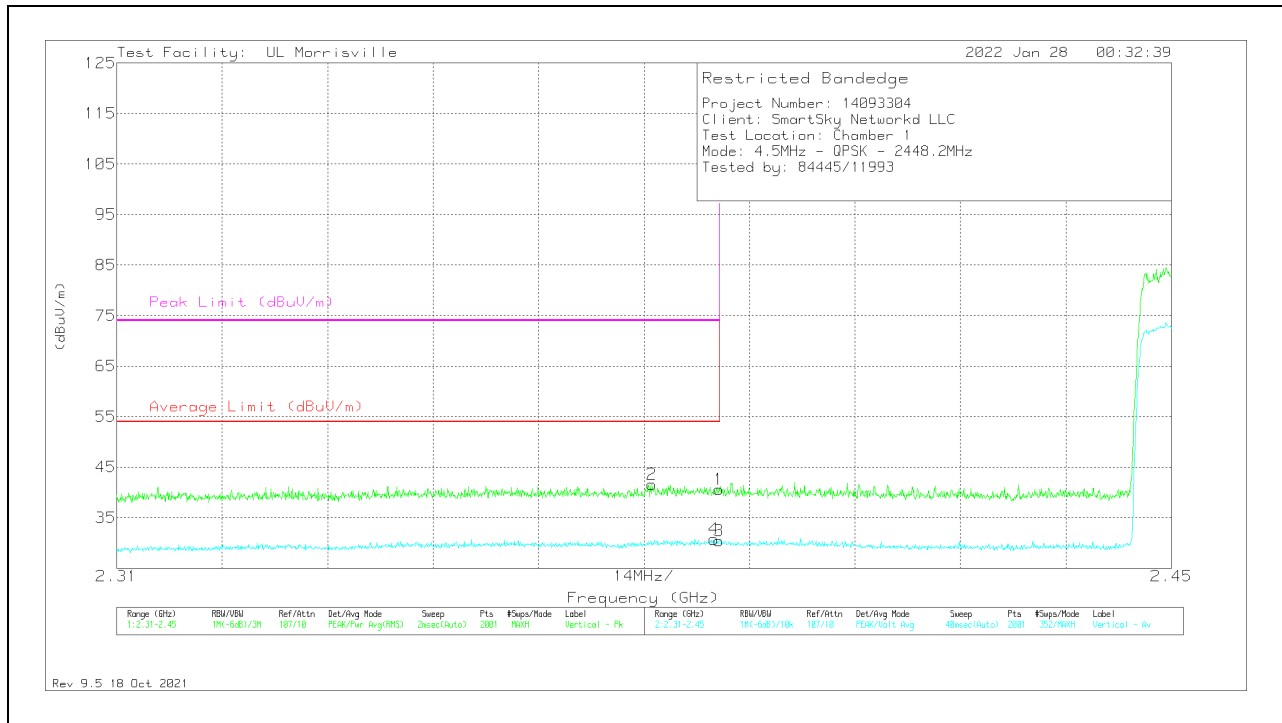
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38994 | 32.35 | Pk | 32.2 | -24.3 | 40.25 | - | - | 74 | -33.75 | 80 | 302 | H |
| 2 | *** 2.32659 | 34.18 | Pk | 31.9 | -24.3 | 41.78 | - | - | 74 | -32.22 | 80 | 302 | H |
| 3 | *** 2.38994 | 22.36 | V1TV | 32.2 | -24.3 | 30.26 | 54 | -23.74 | - | - | 80 | 302 | H |
| 4 | *** 2.3758 | 23.18 | V1TV | 32.3 | -24.8 | 30.68 | 54 | -23.32 | - | - | 80 | 302 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

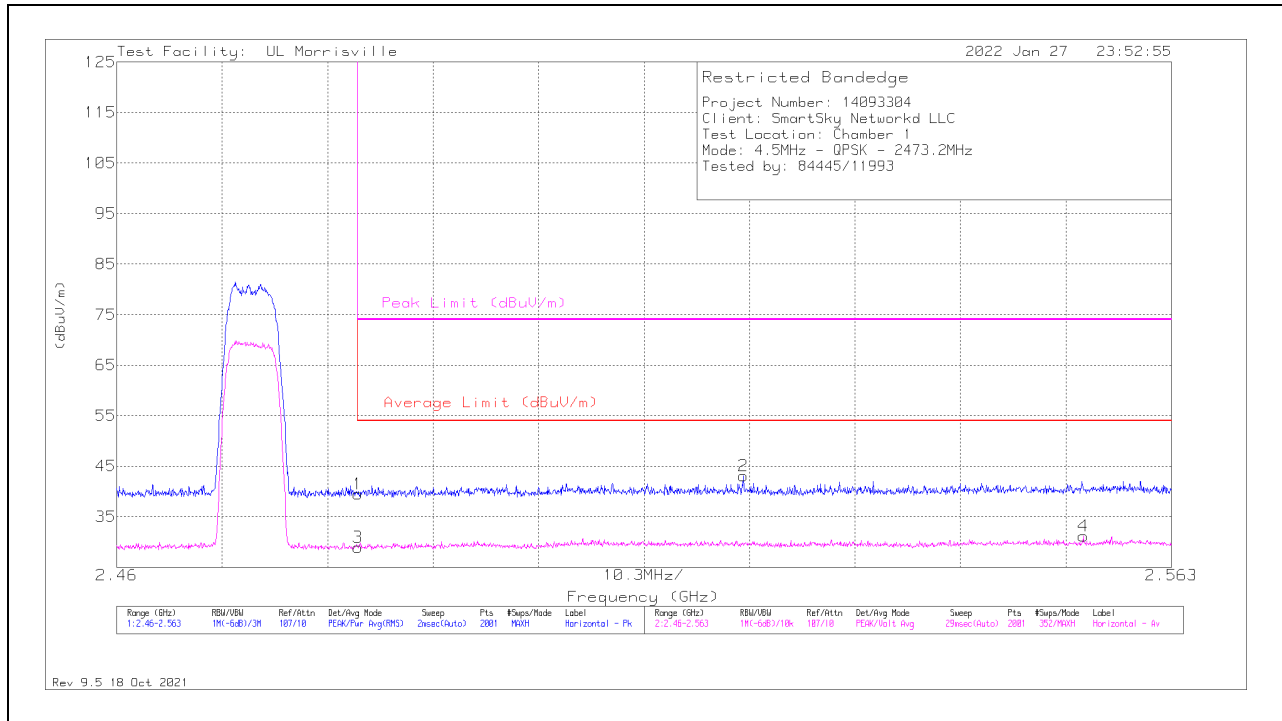


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38994 | 32.7 | Pk | 32.2 | -24.3 | 40.6 | - | - | 74 | -33.4 | 117 | 350 | V |
| 2 | *** 2.38105 | 33.68 | Pk | 32.3 | -24.4 | 41.58 | - | - | 74 | -32.42 | 117 | 350 | V |
| 3 | *** 2.38994 | 22.49 | V1TV | 32.2 | -24.3 | 30.39 | 54 | -23.61 | - | - | 117 | 350 | V |
| 4 | *** 2.38924 | 22.84 | V1TV | 32.2 | -24.3 | 30.74 | 54 | -23.26 | - | - | 117 | 350 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

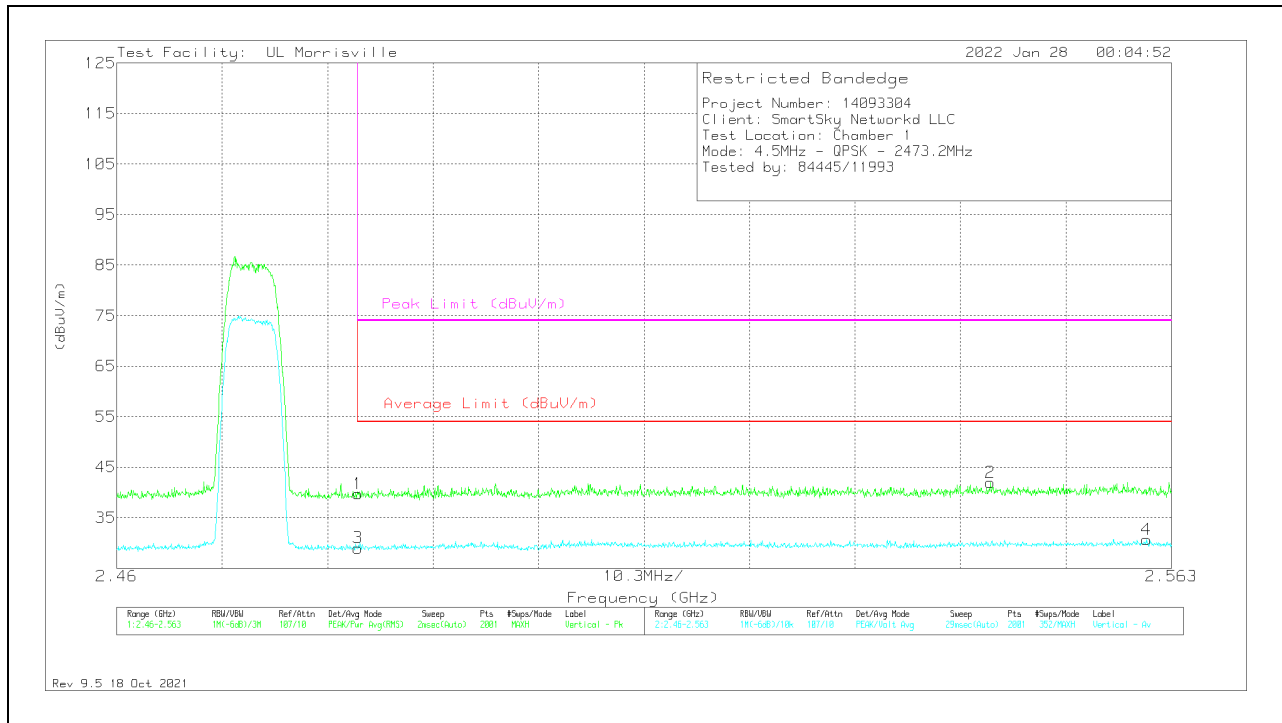
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 31.79 | Pk | 32.3 | -24.6 | 39.49 | - | - | 74 | -34.51 | 83 | 168 | H |
| 2 | ** 2.52118 | 35.03 | Pk | 32.5 | -24.4 | 43.13 | - | - | 74 | -30.87 | 83 | 168 | H |
| 3 | *** 2.48354 | 21.22 | V1TV | 32.3 | -24.6 | 28.92 | 54 | -25.08 | - | - | 83 | 168 | H |
| 4 | ** 2.5544 | 23.04 | V1TV | 32.4 | -24.3 | 31.14 | 54 | -22.86 | - | - | 83 | 168 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

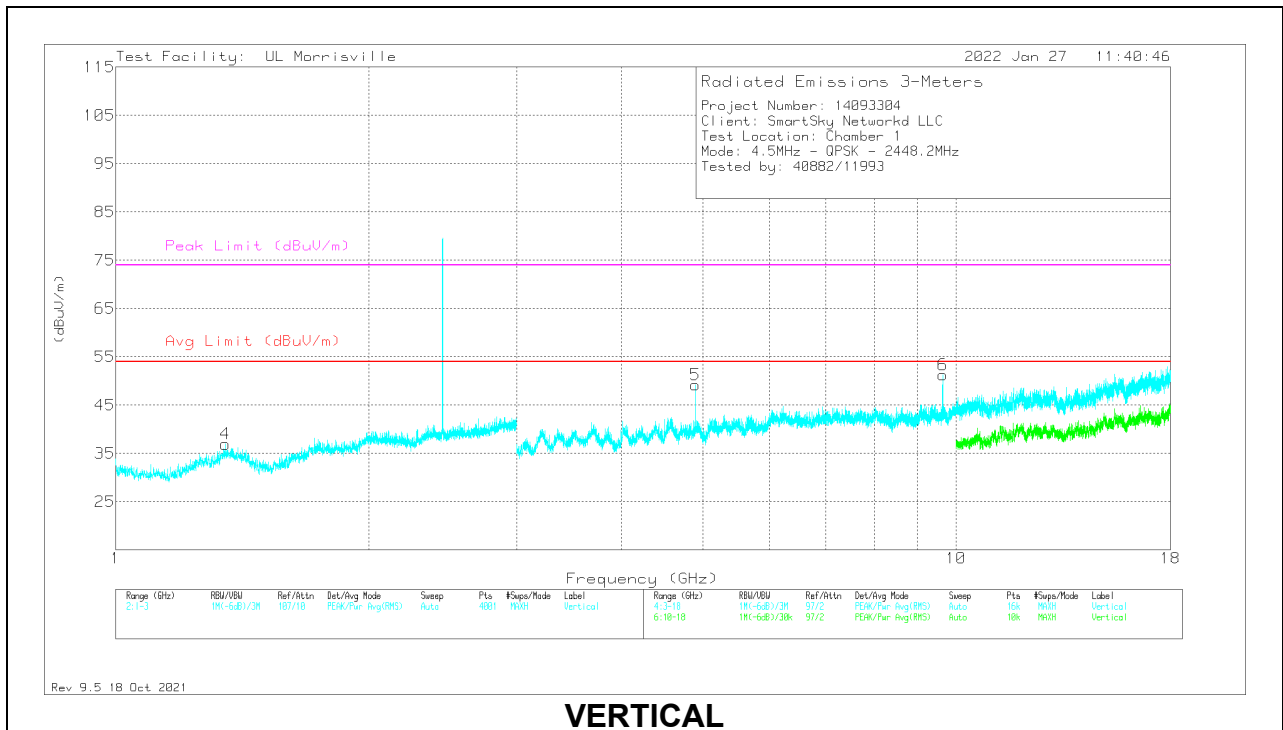
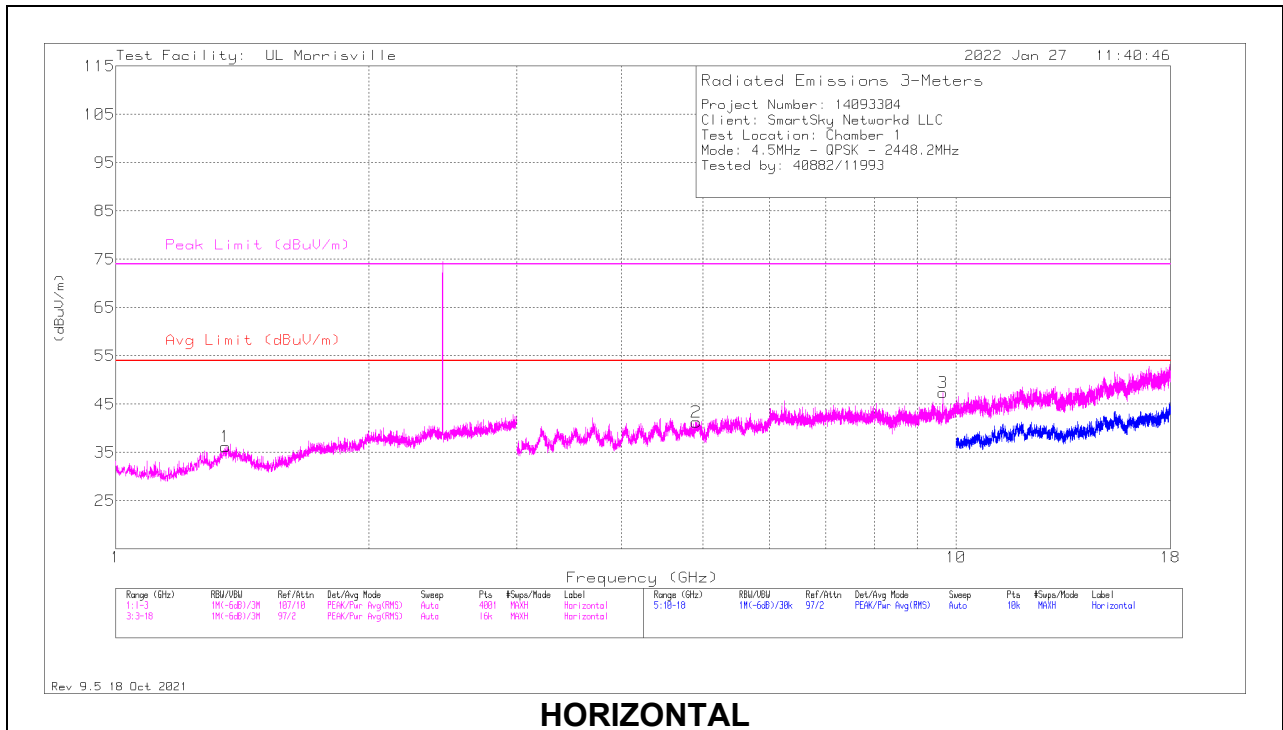


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 31.99 | Pk | 32.3 | -24.6 | 39.69 | - | - | 74 | -34.31 | 116 | 220 | V |
| 2 | ** 2.54534 | 33.75 | Pk | 32.4 | -24.2 | 41.95 | - | - | 74 | -32.05 | 116 | 220 | V |
| 3 | *** 2.48354 | 21.3 | V1TV | 32.3 | -24.6 | 29 | 54 | -25 | - | - | 116 | 220 | V |
| 4 | ** 2.56058 | 22.62 | V1TV | 32.4 | -24.3 | 30.72 | 54 | -23.28 | - | - | 116 | 220 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

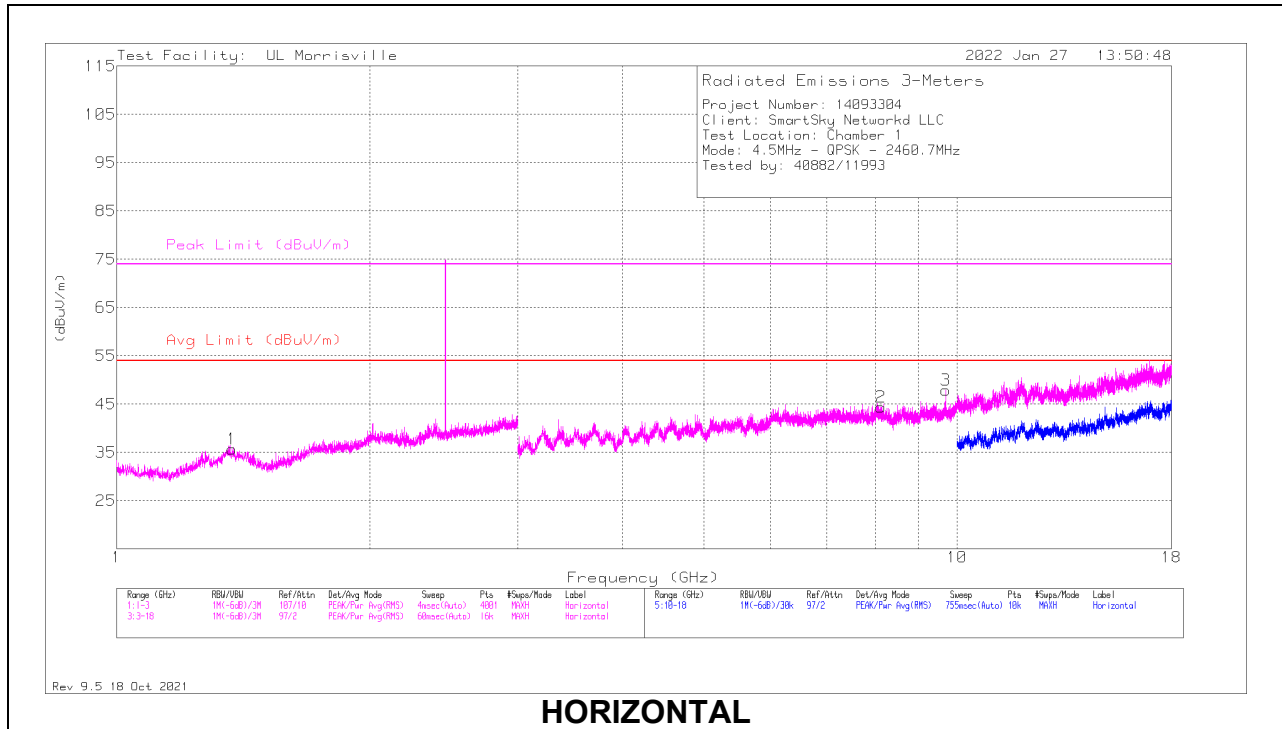


RADIATED EMISSIONS

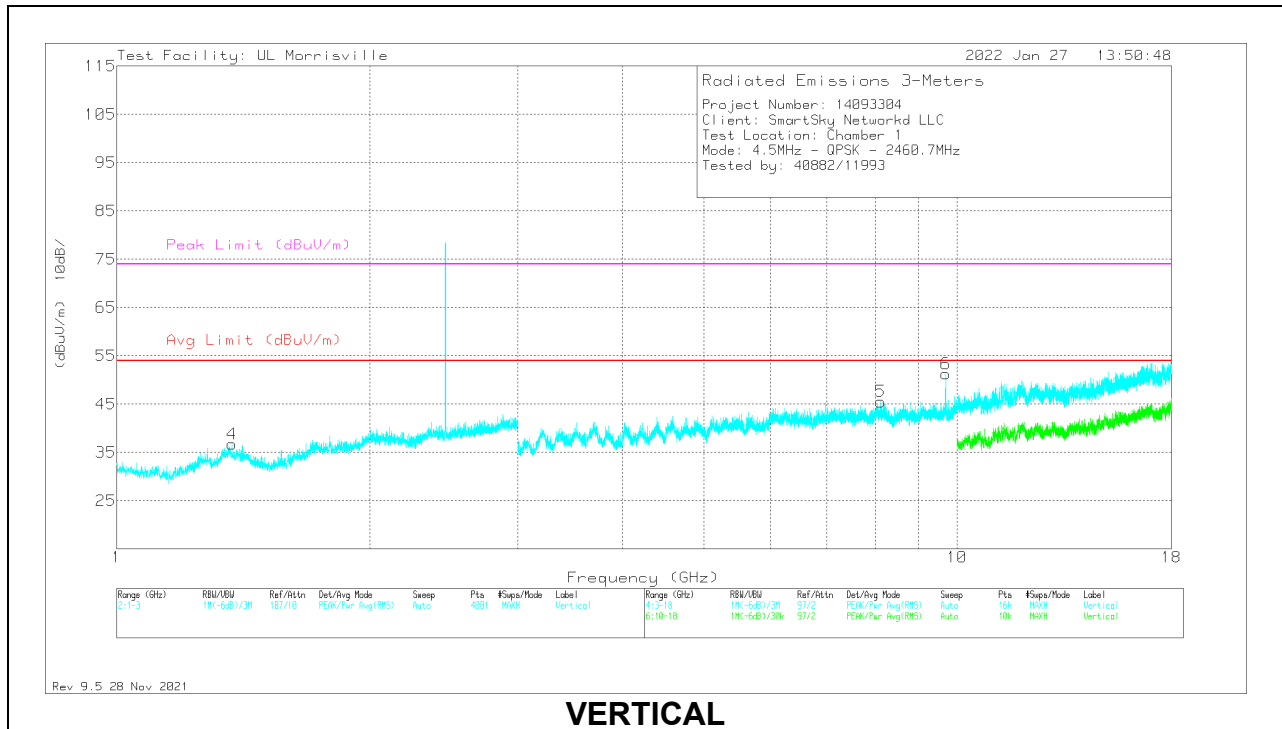
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.3515 | 32.13 | Pk | 29.6 | -25.5 | 36.23 | 54 | -17.77 | 74 | -37.77 | 0-360 | 199 | H |
| 4 | *** 1.3505 | 32.94 | Pk | 29.6 | -25.6 | 36.94 | 54 | -17.06 | 74 | -37.06 | 0-360 | 200 | V |
| 5 | *** 4.89639 | 48.82 | PK2 | 33.9 | -31.3 | 51.42 | - | - | 74 | -22.58 | 329 | 200 | V |
| | *** 4.89639 | 45.99 | V1TV | 33.9 | -31.3 | 48.59 | 54 | -5.41 | - | - | 329 | 200 | V |
| 2 | *** 4.90875 | 38.73 | Pk | 33.9 | -31.3 | 41.33 | 54 | -12.67 | 74 | -32.67 | 0-360 | 200 | H |
| 3 | 9.64125 | 39.03 | Pk | 36.6 | -28.2 | 47.43 | - | - | - | - | 0-360 | 200 | H |
| 6 | 9.64125 | 42.86 | Pk | 36.6 | -28.2 | 51.26 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



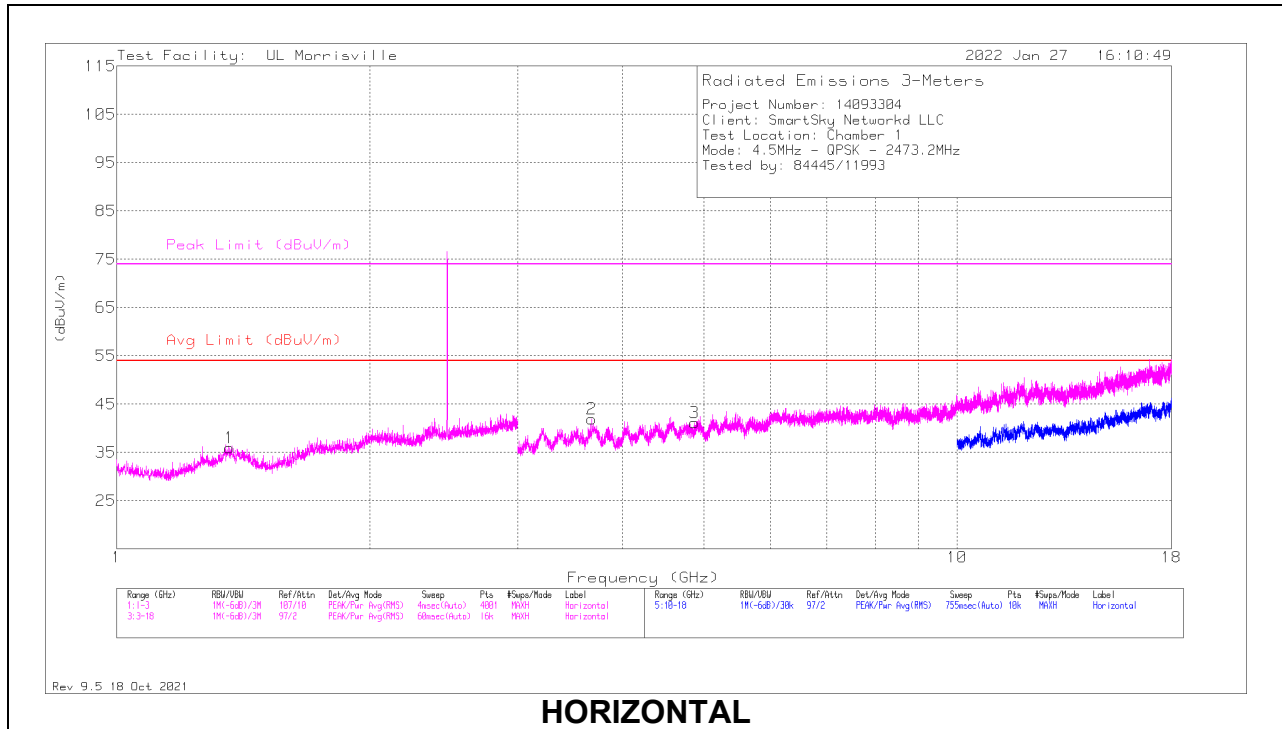
VERTICAL

RADIATED EMISSIONS

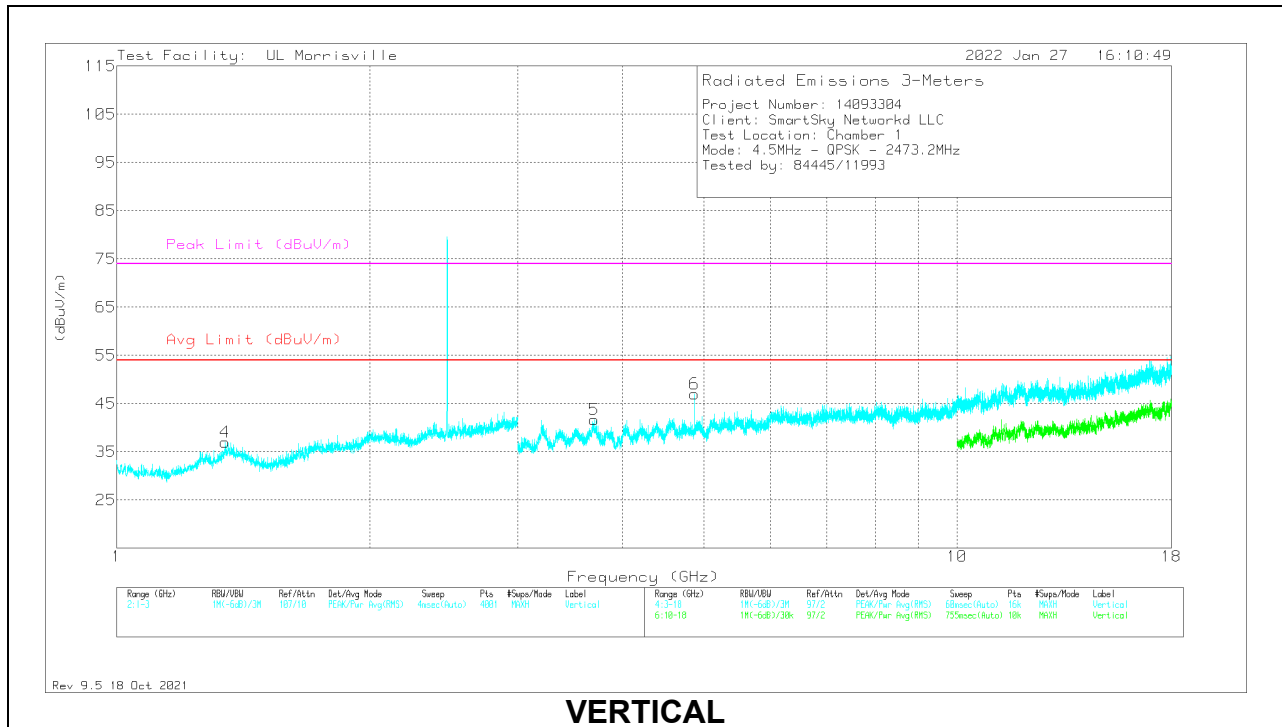
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.3725 | 31.68 | Pk | 29.5 | -25.5 | 35.68 | 54 | -18.32 | 74 | -38.32 | 0-360 | 101 | H |
| 4 | *** 1.3715 | 32.5 | Pk | 29.6 | -25.4 | 36.7 | 54 | -17.3 | 74 | -37.3 | 0-360 | 200 | V |
| 5 | *** 8.11688 | 38.41 | Pk | 35.7 | -28.6 | 45.51 | 54 | -8.49 | 74 | -28.49 | 0-360 | 199 | V |
| 2 | *** 8.11922 | 37.45 | Pk | 35.7 | -28.8 | 44.35 | 54 | -9.65 | 74 | -29.65 | 0-360 | 101 | H |
| 3 | 9.69094 | 38.66 | Pk | 36.7 | -27.4 | 47.96 | - | - | - | - | 0-360 | 101 | H |
| 6 | 9.69094 | 42.02 | Pk | 36.7 | -27.4 | 51.32 | - | - | - | - | 0-360 | 199 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

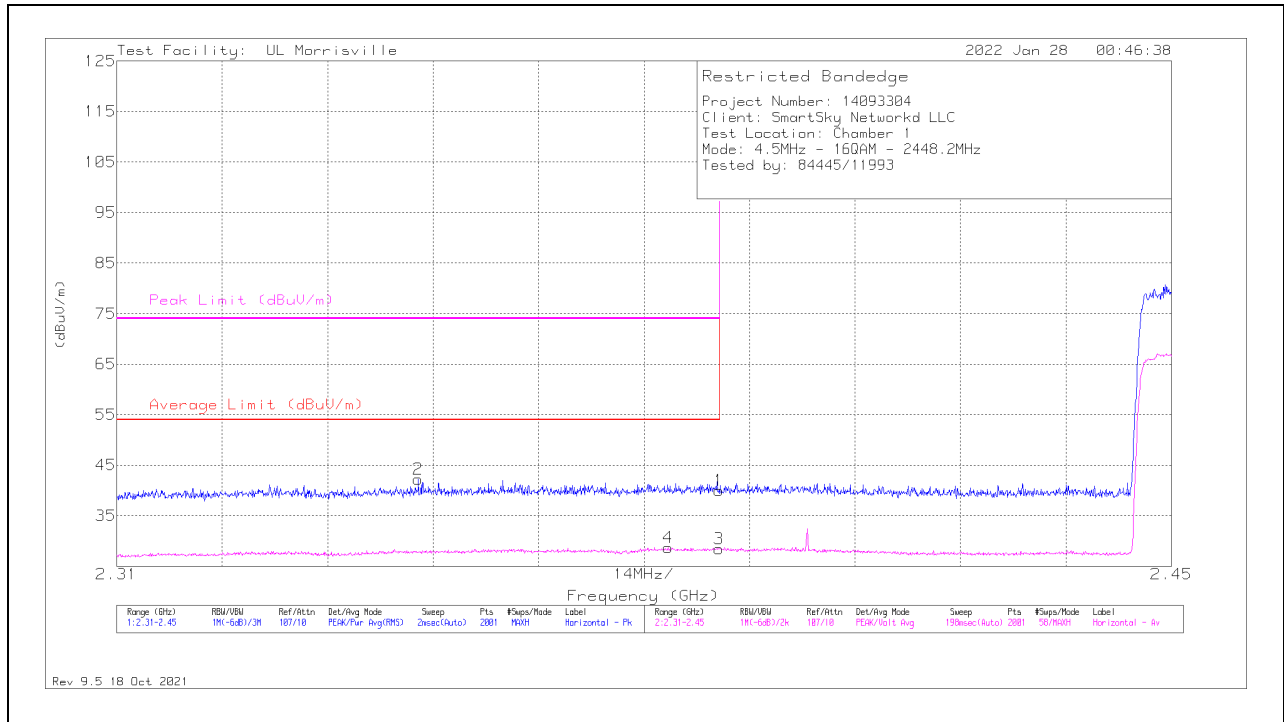
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.3625 | 31.9 | Pk | 29.6 | -25.5 | 36 | 54 | -18 | 74 | -38 | 0-360 | 200 | H |
| 4 | *** 1.3455 | 33.04 | Pk | 29.4 | -25.4 | 37.04 | 54 | -16.96 | 74 | -36.96 | 0-360 | 200 | V |
| 2 | *** 3.67688 | 40.62 | Pk | 33.2 | -31.9 | 41.92 | 54 | -12.08 | 74 | -32.08 | 0-360 | 101 | H |
| 5 | *** 3.69844 | 40.65 | Pk | 33.3 | -32.3 | 41.65 | 54 | -12.35 | 74 | -32.35 | 0-360 | 200 | V |
| 3 | *** 4.87031 | 38.61 | Pk | 33.9 | -31.4 | 41.11 | 54 | -12.89 | 74 | -32.89 | 0-360 | 101 | H |
| 6 | *** 4.87031 | 44.5 | Pk | 33.9 | -31.4 | 47 | 54 | -7 | 74 | -27 | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

12.3.2. TX ABOVE 1 GHz 4.5MHz, 16-QAM MODE IN THE 2.4 GHz BAND

BANDEDGE (LOW CHANNEL)

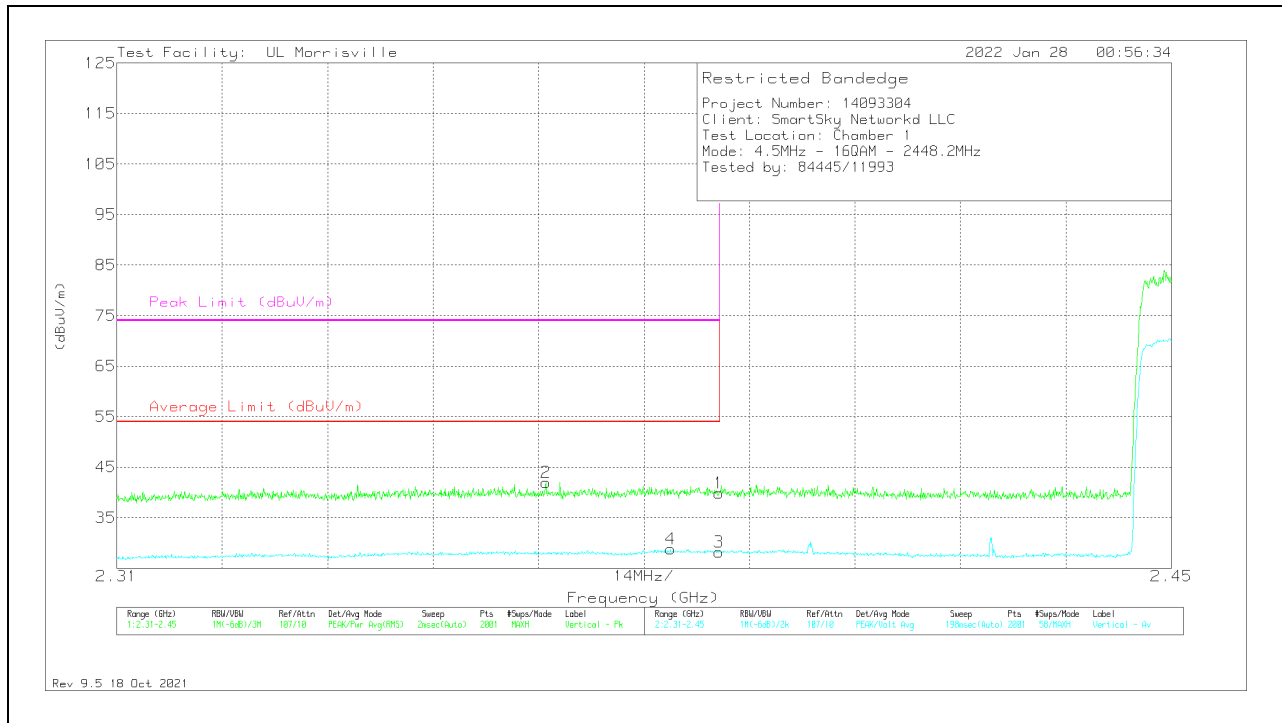
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38994 | 32.06 | Pk | 32.2 | -24.3 | 39.96 | - | - | 74 | -34.04 | 109 | 254 | H |
| 2 | *** 2.35004 | 34.6 | Pk | 32.1 | -24.5 | 42.2 | - | - | 74 | -31.8 | 109 | 254 | H |
| 3 | *** 2.38994 | 20.5 | V1TV | 32.2 | -24.3 | 28.4 | 54 | -25.6 | - | - | 109 | 254 | H |
| 4 | *** 2.38322 | 20.81 | V1TV | 32.3 | -24.4 | 28.71 | 54 | -25.29 | - | - | 109 | 254 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

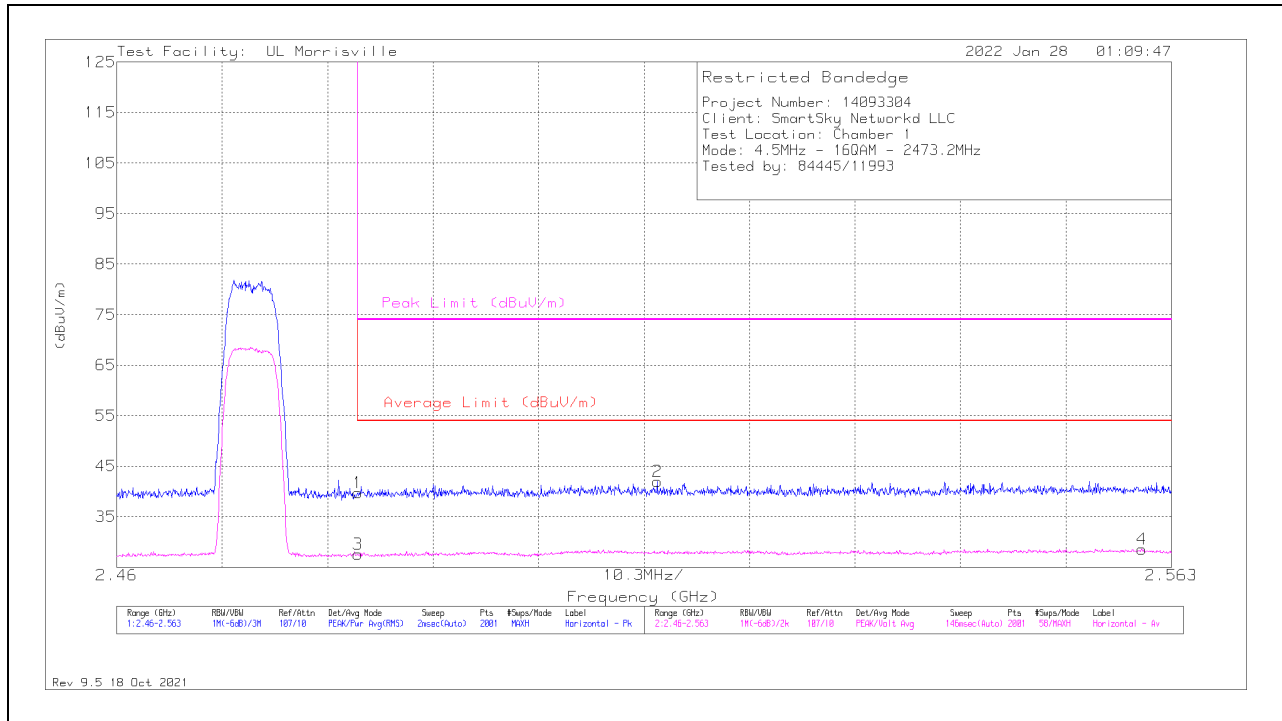


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38994 | 31.97 | Pk | 32.2 | -24.3 | 39.87 | - | - | 74 | -34.13 | 108 | 266 | V |
| 2 | *** 2.36698 | 34.37 | Pk | 32.2 | -24.6 | 41.97 | - | - | 74 | -32.03 | 108 | 266 | V |
| 3 | *** 2.38994 | 20.25 | V1TV | 32.2 | -24.3 | 28.15 | 54 | -25.85 | - | - | 108 | 266 | V |
| 4 | *** 2.3835 | 20.88 | V1TV | 32.3 | -24.4 | 28.78 | 54 | -25.22 | - | - | 108 | 266 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

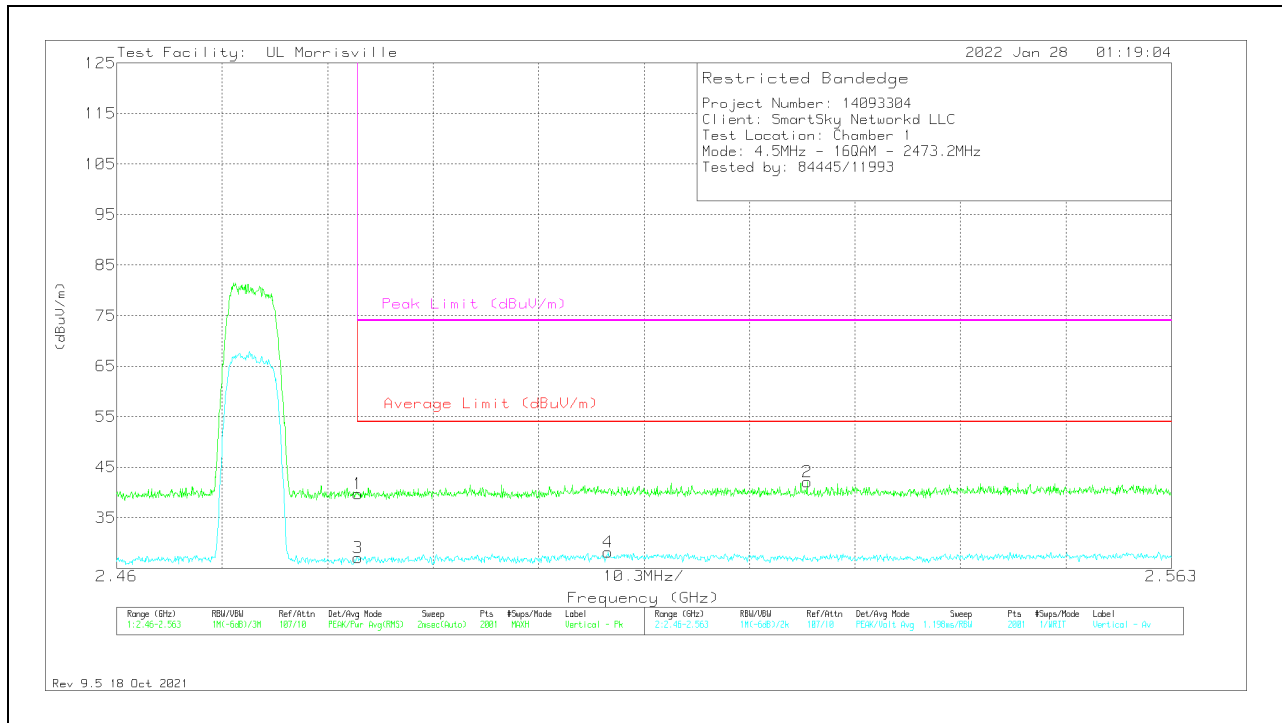
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 32 | Pk | 32.3 | -24.6 | 39.7 | - | - | 74 | -34.3 | 80 | 288 | H |
| 2 | ** 2.51279 | 33.99 | Pk | 32.4 | -24.4 | 41.99 | - | - | 74 | -32.01 | 80 | 288 | H |
| 3 | *** 2.48354 | 19.89 | V1TV | 32.3 | -24.6 | 27.59 | 54 | -26.41 | - | - | 80 | 288 | H |
| 4 | ** 2.56012 | 20.39 | V1TV | 32.4 | -24.2 | 28.59 | 54 | -25.41 | - | - | 80 | 288 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT

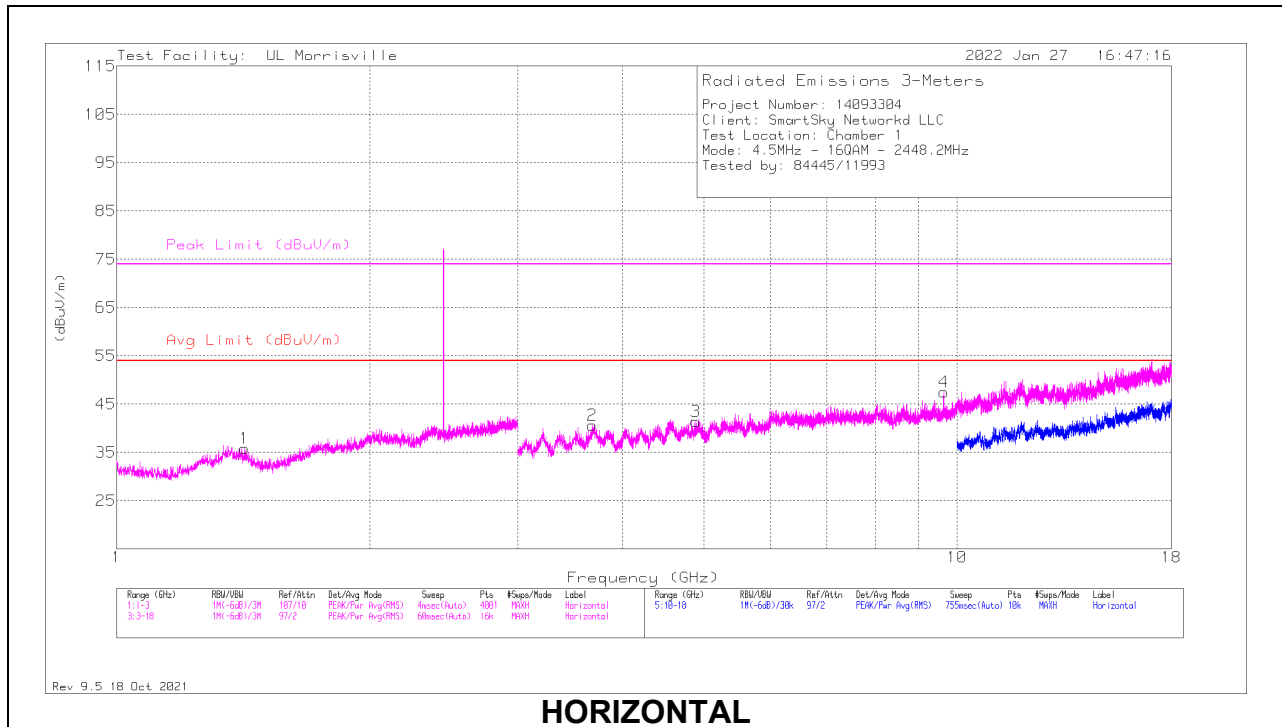


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.48354 | 32.08 | Pk | 32.3 | -24.6 | 39.78 | - | - | 74 | -34.22 | 103 | 312 | V |
| 2 | ** 2.52741 | 34.17 | Pk | 32.5 | -24.6 | 42.07 | - | - | 74 | -31.93 | 103 | 312 | V |
| 3 | *** 2.48354 | 19.35 | VA1T | 32.3 | -24.6 | 27.05 | 54 | -26.95 | - | - | 103 | 312 | V |
| 4 | ** 2.508 | 20 | VA1T | 32.4 | -24.2 | 28.2 | 54 | -25.8 | - | - | 103 | 312 | V |

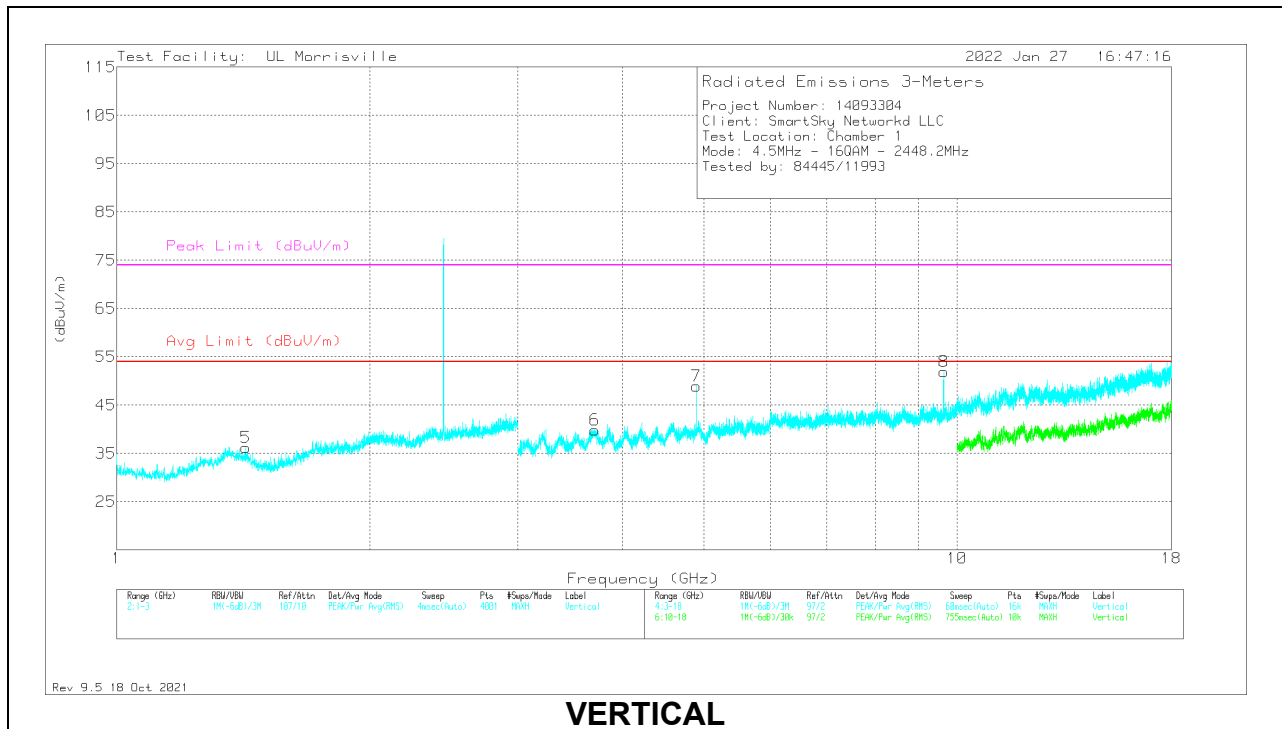
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.4195 | 31.92 | Pk | 29 | -25.1 | 35.82 | 54 | -18.18 | 74 | -38.18 | 0-360 | 199 | H |
| 5 | *** 1.424 | 32.33 | Pk | 29 | -25.1 | 36.23 | 54 | -17.77 | 74 | -37.77 | 0-360 | 200 | V |
| 2 | *** 3.67875 | 39.3 | Pk | 33.2 | -31.9 | 40.6 | 54 | -13.4 | 74 | -33.4 | 0-360 | 200 | H |
| 6 | *** 3.705 | 38.67 | Pk | 33.3 | -32.1 | 39.87 | 54 | -14.13 | 74 | -34.13 | 0-360 | 200 | V |
| 3 | *** 4.88438 | 39.36 | Pk | 33.9 | -31.9 | 41.36 | 54 | -12.64 | 74 | -32.64 | 0-360 | 101 | H |
| 7 | *** 4.89645 | 48.72 | PK2 | 33.9 | -31.3 | 51.32 | - | - | 74 | -22.68 | 331 | 194 | V |
| | *** 4.8964 | 45.12 | V1TV | 33.9 | -31.3 | 47.72 | 54 | -6.28 | - | - | 331 | 194 | V |
| 4 | 9.64125 | 39.08 | Pk | 36.6 | -28.2 | 47.48 | - | - | - | - | 0-360 | 200 | H |
| 8 | 9.64125 | 43.54 | Pk | 36.6 | -28.2 | 51.94 | - | - | - | - | 0-360 | 200 | V |

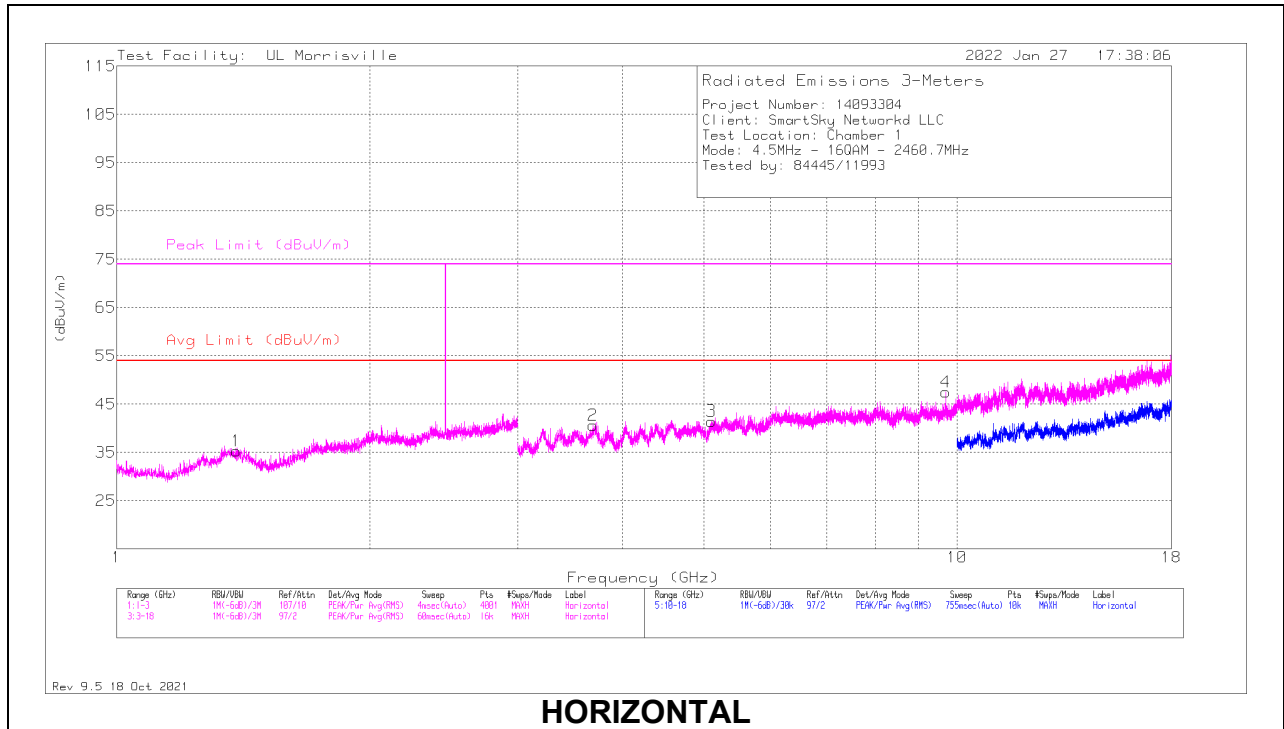
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

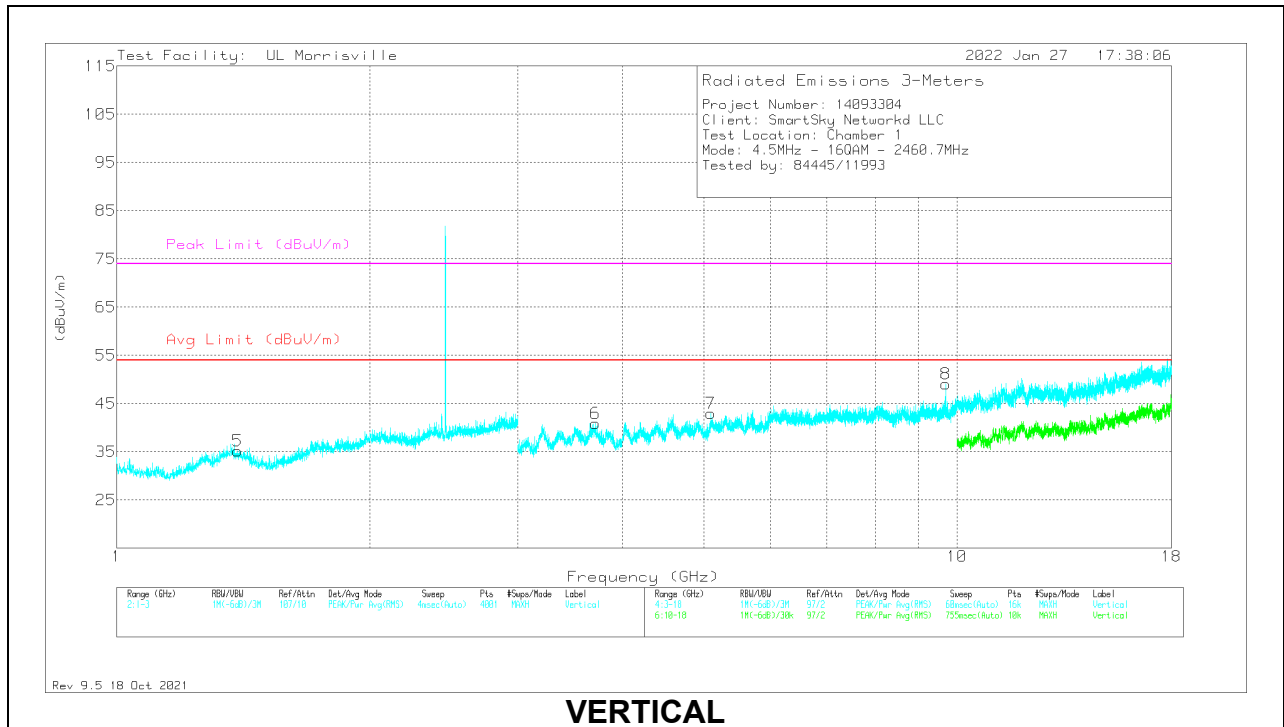
Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

MID CHANNEL RESULTS



HORIZONTAL



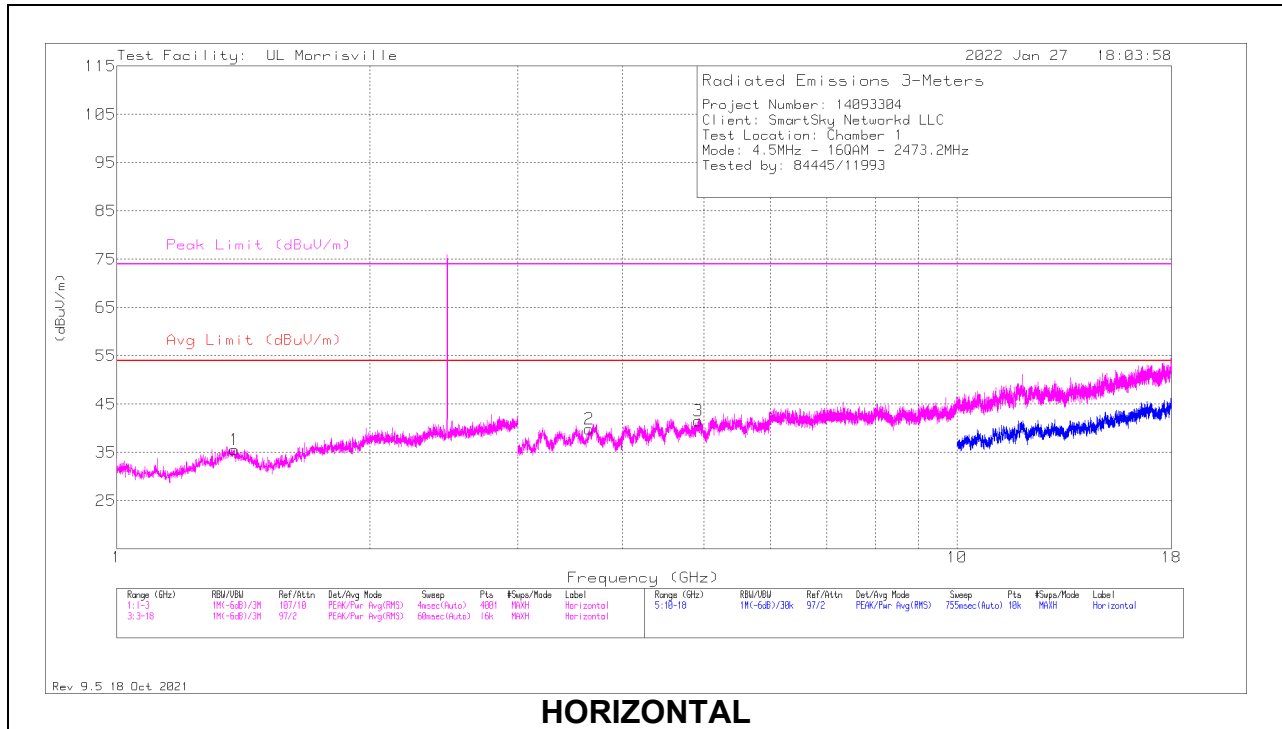
VERTICAL

RADIATED EMISSIONS

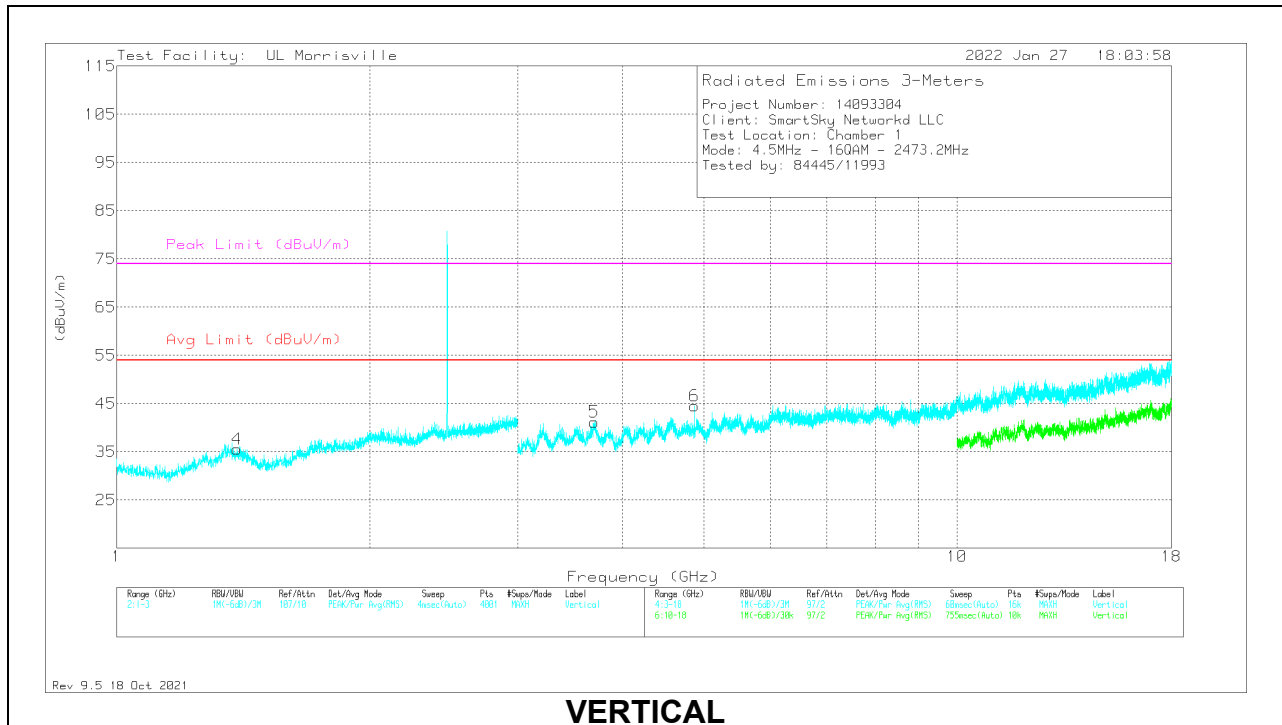
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.389 | 31.7 | Pk | 29.3 | -25.7 | 35.3 | 54 | -18.7 | 74 | -38.7 | 0-360 | 101 | H |
| 5 | *** 1.3925 | 31.29 | Pk | 29.3 | -25.4 | 35.19 | 54 | -18.81 | 74 | -38.81 | 0-360 | 200 | V |
| 2 | *** 3.69 | 39.75 | Pk | 33.3 | -32.4 | 40.65 | 54 | -13.35 | 74 | -33.35 | 0-360 | 199 | H |
| 6 | *** 3.71156 | 39.73 | Pk | 33.3 | -32.1 | 40.93 | 54 | -13.07 | 74 | -33.07 | 0-360 | 101 | V |
| 7 | *** 5.0925 | 40.19 | Pk | 34 | -31.2 | 42.99 | 54 | -11.01 | 74 | -31.01 | 0-360 | 200 | V |
| 3 | *** 5.10563 | 38.68 | Pk | 34 | -31.2 | 41.48 | 54 | -12.52 | 74 | -32.52 | 0-360 | 199 | H |
| 4 | 9.69094 | 38.24 | Pk | 36.7 | -27.4 | 47.54 | - | - | - | - | 0-360 | 101 | H |
| 8 | 9.69094 | 39.76 | Pk | 36.7 | -27.4 | 49.06 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.38 | 31.76 | Pk | 29.4 | -25.6 | 35.56 | 54 | -18.44 | 74 | -38.44 | 0-360 | 101 | H |
| 4 | *** 1.391 | 31.65 | Pk | 29.3 | -25.4 | 35.55 | 54 | -18.45 | 74 | -38.45 | 0-360 | 200 | V |
| 2 | *** 3.64781 | 38.11 | Pk | 33.1 | -31.3 | 39.91 | 54 | -14.09 | 74 | -34.09 | 0-360 | 101 | H |
| 5 | *** 3.70031 | 40.12 | Pk | 33.3 | -32.2 | 41.22 | 54 | -12.78 | 74 | -32.78 | 0-360 | 101 | V |
| 6 | *** 4.87031 | 42.01 | Pk | 33.9 | -31.4 | 44.51 | 54 | -9.49 | 74 | -29.49 | 0-360 | 200 | V |
| 3 | *** 4.91906 | 39.13 | Pk | 33.9 | -31.5 | 41.53 | 54 | -12.47 | 74 | -32.47 | 0-360 | 199 | H |

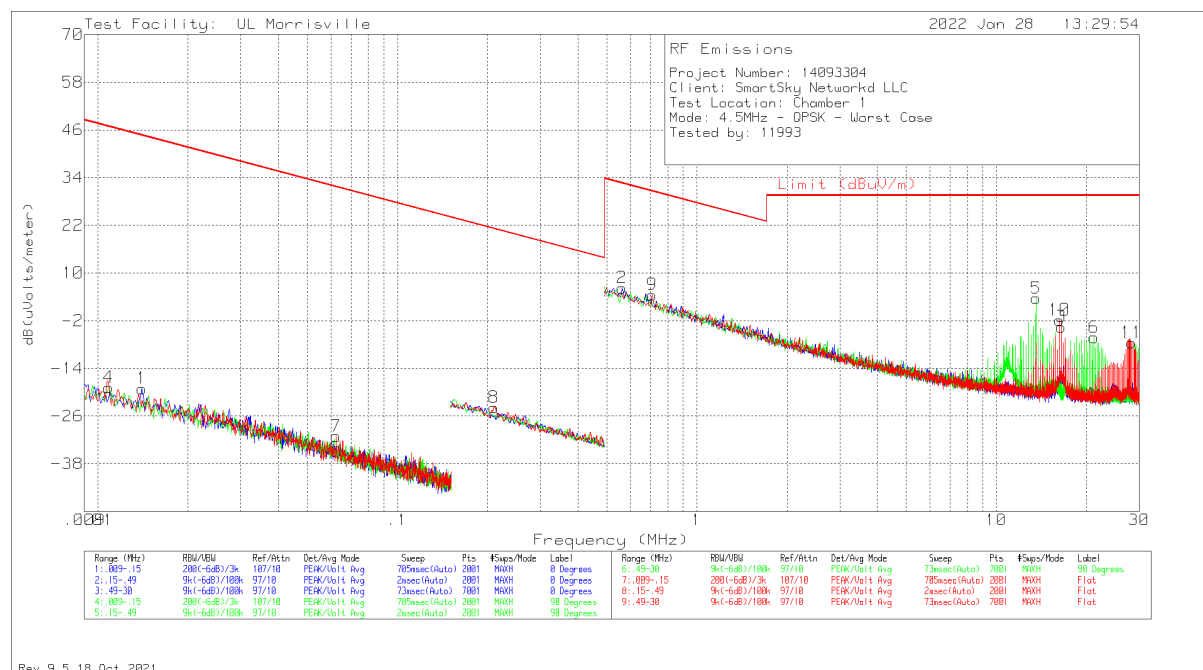
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

12.4. WORST-CASE BELOW 30MHz

Note for below 30 MHz scans: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).

12.4.1. FRB, 4.5 MHz BW, QPSK MODE

SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



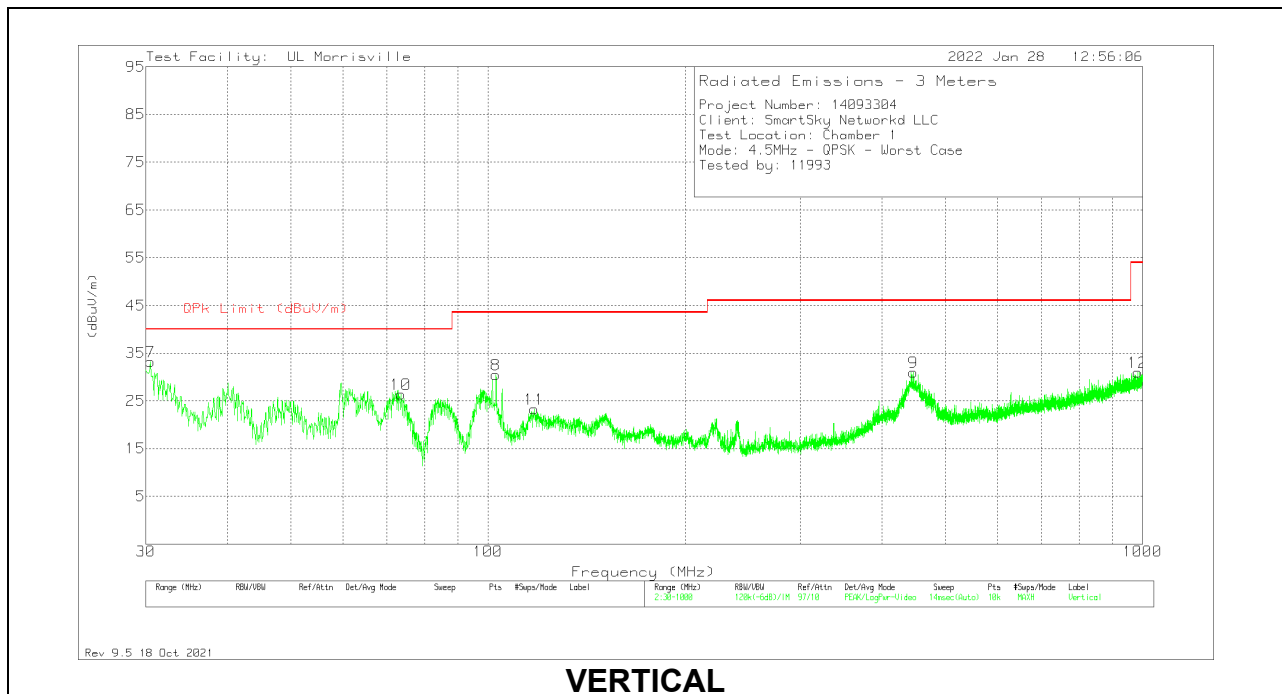
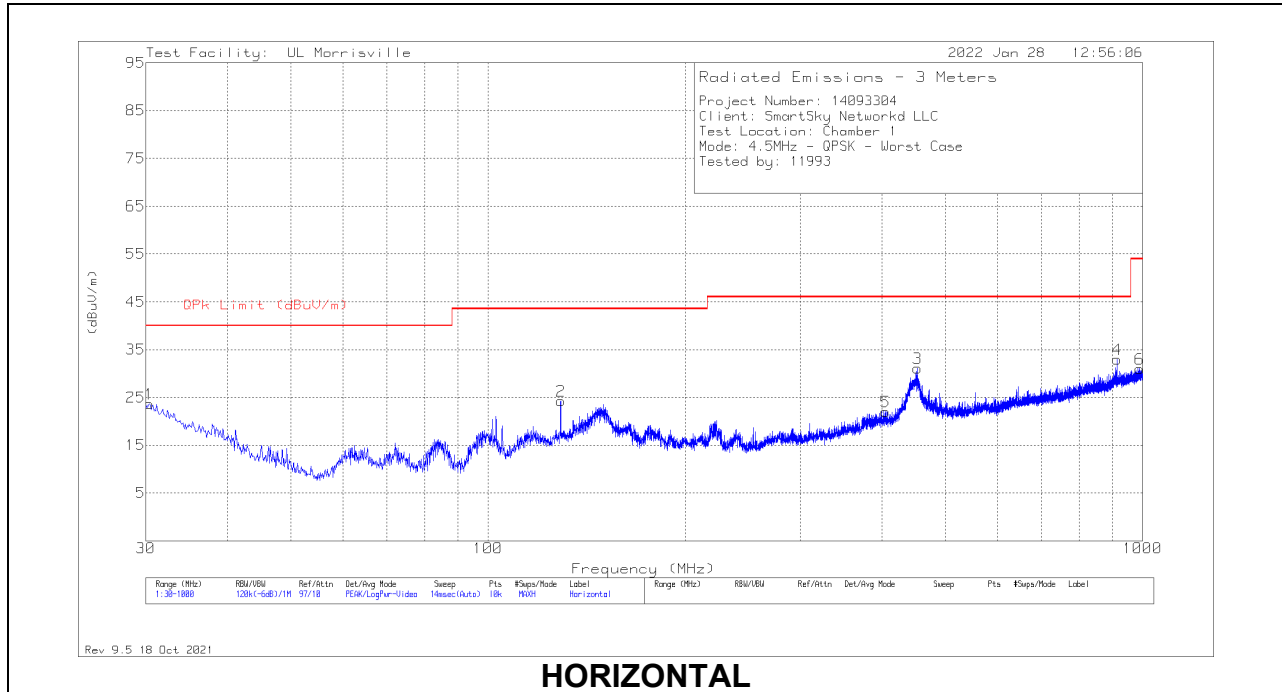
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0079 (dB/m) | Cbl (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uVolts/meter) | Qp/Av Limit (dBuV/m) | Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Loop Angle |
|--------|-----------------|----------------------|-----|---------------|----------|-------------------------|------------------------------------|----------------------|-------------------|-------------|----------------|------------|
| 4 | .01085 | 43.11 | Pk | 18 | .1 | -80 | -18.79 | 46.9 | 66.9 | -65.69 | 0-360 | 90 degs |
| 1 | .01404 | 44.14 | Pk | 16.7 | .1 | -80 | -19.06 | 44.66 | 64.66 | -63.72 | 0-360 | 0 degs |
| 7 | .06246 | 37.25 | Pk | 11.6 | .1 | -80 | -31.05 | 31.69 | 51.69 | -62.74 | 0-360 | Flat |
| 8 | .20967 | 44.87 | Pk | 11.2 | .1 | -80 | -23.83 | 21.17 | 41.17 | -45 | 0-360 | Flat |
| 2 | .56167 | 34.86 | Pk | 11.2 | .2 | -40 | 6.26 | 32.61 | - | -26.35 | 0-360 | 0 degs |
| 9 | .70923 | 33.03 | Pk | 11.3 | .2 | -40 | 4.53 | 30.59 | - | -26.06 | 0-360 | Flat |
| 5 | 13.5596 | 32.66 | Pk | 10.2 | .8 | -40 | 3.66 | 29.54 | - | -25.88 | 0-360 | 90 degs |
| 10 | 16.24519 | 27.44 | Pk | 9.9 | .8 | -40 | -1.86 | 29.54 | - | -31.4 | 0-360 | Flat |
| 3 | 16.49394 | 25.76 | Pk | 9.9 | .8 | -40 | -3.54 | 29.54 | - | -33.08 | 0-360 | 0 degs |
| 6 | 21.1737 | 23.5 | Pk | 9.3 | 1 | -40 | -6.2 | 29.54 | - | -35.74 | 0-360 | 90 degs |
| 11 | 28.31138 | 23.37 | Pk | 8 | 1.1 | -40 | -7.53 | 29.54 | - | -37.07 | 0-360 | Flat |

Pk - Peak detector

12.5. WORST-CASE 30-1000MHZ

12.5.1. FRB, 4.5 MHz BW, QPSK MODE

SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



RADIATED EMISSIONS

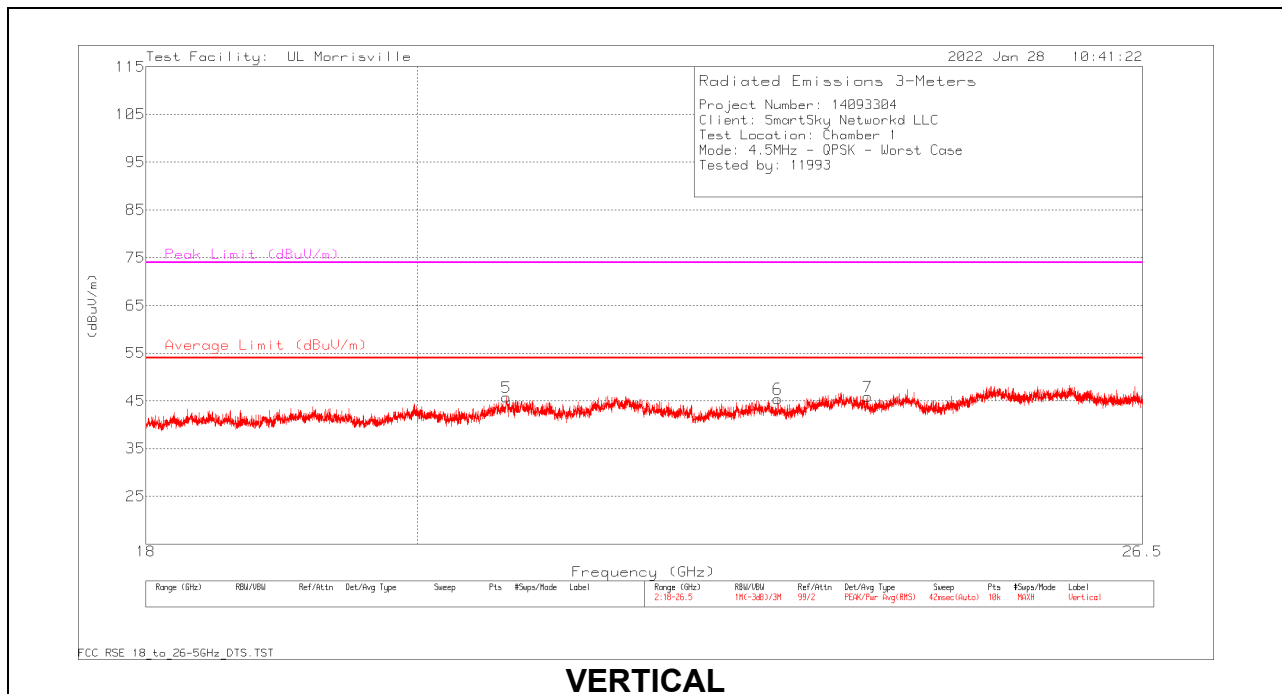
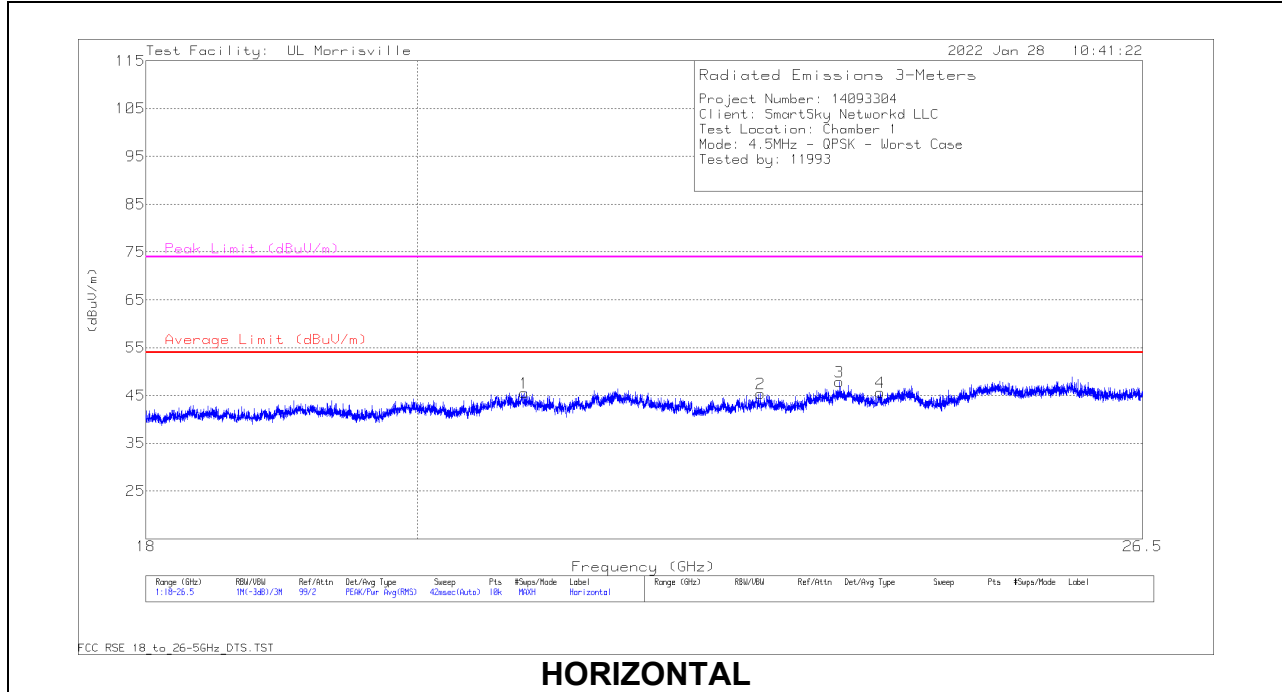
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0066 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 2 | * ** 129.134 | 34.59 | Pk | 19.8 | -30.1 | 24.29 | 43.52 | -19.23 | 0-360 | 200 | H |
| 4 | ** 914.737 | 28.43 | Pk | 29 | -24.5 | 32.93 | 46.02 | -13.09 | 0-360 | 100 | H |
| 5 | * ** 405.002 | 27.95 | Pk | 22 | -27.9 | 22.05 | 46.02 | -23.97 | 0-360 | 100 | H |
| 6 | * ** 990.3 | 24.59 | Pk | 29.7 | -23.3 | 30.99 | 53.97 | -22.98 | 0-360 | 300 | H |
| 10 | * ** 73.553 | 42.88 | Pk | 14.3 | -30.8 | 26.38 | 40 | -13.62 | 0-360 | 100 | V |
| 11 | * ** 117.688 | 33.92 | Pk | 19.3 | -30 | 23.22 | 43.52 | -20.3 | 0-360 | 100 | V |
| 12 | * ** 983.025 | 24.93 | Pk | 29.6 | -23.6 | 30.93 | 53.97 | -23.04 | 0-360 | 100 | V |
| 1 | 30.388 | 27.7 | Pk | 27.2 | -31.3 | 23.6 | - | - | 0-360 | 300 | H |
| 7 | 30.485 | 37.29 | Pk | 27.1 | -31.2 | 33.19 | - | - | 0-360 | 100 | V |
| 8 | 102.847 | 43.84 | Pk | 17 | -30.4 | 30.44 | - | - | 0-360 | 100 | V |
| 9 | 446.324 | 35.6 | Pk | 23 | -27.6 | 31 | - | - | 0-360 | 100 | V |
| 3 | 453.308 | 35.58 | Pk | 23.2 | -27.7 | 31.08 | - | - | 0-360 | 200 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

12.6. WORST-CASE ABOVE 18 GHz

12.6.1. FRB, 4.5 MHz BW, QPSK MODE

SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|--------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 20.84892 | 51.27 | Pk | 33.9 | -39.7 | 45.47 | 54 | -8.53 | 74 | -28.53 | 0-360 | 150 | H |
| 2 | *** 22.84707 | 49.95 | Pk | 34.5 | -39.1 | 45.35 | 54 | -8.65 | 74 | -28.65 | 0-360 | 299 | H |
| 4 | *** 23.93241 | 49.45 | Pk | 35 | -38.8 | 45.65 | 54 | -8.35 | 74 | -28.35 | 0-360 | 199 | H |
| 5 | *** 20.70528 | 50.65 | Pk | 33.9 | -38.8 | 45.75 | 54 | -8.25 | 74 | -28.25 | 0-360 | 201 | V |
| 6 | *** 23.00345 | 50.14 | Pk | 34.6 | -39.3 | 45.44 | 54 | -8.56 | 74 | -28.56 | 0-360 | 250 | V |
| 7 | *** 23.81937 | 49.23 | Pk | 35.1 | -38.5 | 45.83 | 54 | -8.17 | 74 | -28.17 | 0-360 | 101 | V |
| 3 | 23.55929 | 51.17 | Pk | 35.4 | -38.7 | 47.87 | - | - | - | - | 0-360 | 299 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

13. 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

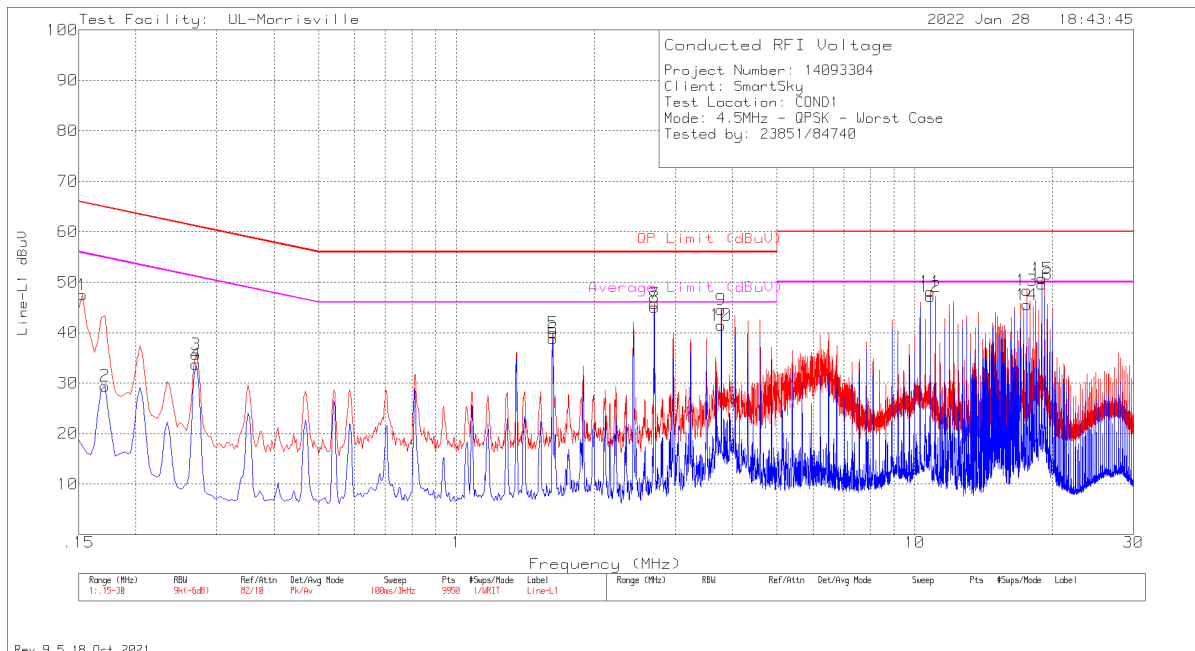
The EUT is placed on a non-conducting table 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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 lines.

13.1.1. FRB, 4.5 MHz BW, QPSK MODE

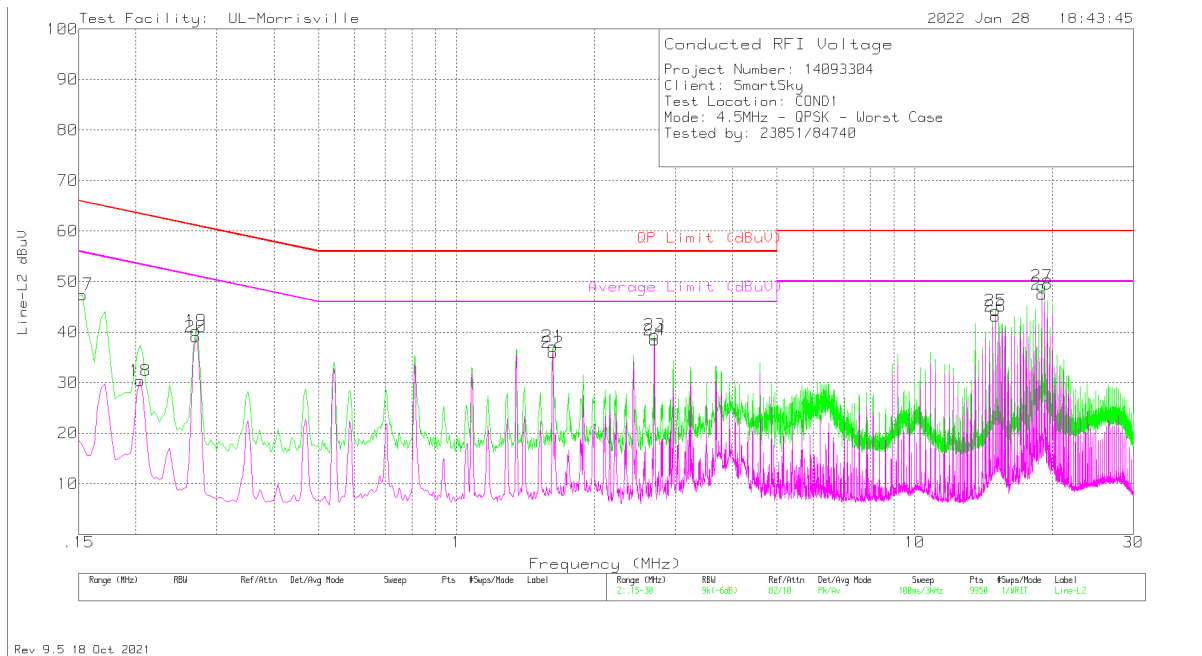
LINE 1 RESULTS – WORST-CASE CHANNEL



| Range 1: Line-L1 15 - 30MHz | | | | | | | | | | |
|-----------------------------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VCF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
| 1 | .153 | 37.52 | Pk | .2 | 9.8 | 47.52 | 65.84 | -18.32 | - | - |
| 2 | .171 | 19.45 | Av | .2 | 9.8 | 29.45 | - | - | 54.91 | -25.46 |
| 3 | .27 | 25.78 | Pk | .1 | 9.8 | 35.68 | 61.12 | -25.44 | - | - |
| 4 | .27 | 23.8 | Av | .1 | 9.8 | 33.7 | - | - | 51.12 | -17.42 |
| 5 | 1.623 | 30.17 | Pk | 0 | 9.8 | 39.97 | 56 | -16.03 | - | - |
| 6 | 1.623 | 29.02 | Av | 0 | 9.8 | 38.82 | - | - | 46 | -7.18 |
| 7 | 2.703 | 36.03 | Pk | 0 | 9.8 | 45.83 | 56 | -10.17 | - | - |
| 8 | 2.70216 | 35.13 | Ca | 0 | 9.8 | 44.93 | - | - | 46 | -1.07 |
| 9 | 3.783 | 34.66 | Pk | 0 | 9.9 | 44.56 | 56 | -11.44 | - | - |
| 10 | 3.78418 | 32.34 | Ca | 0 | 9.9 | 42.24 | - | - | 46 | -3.76 |
| 11 | 10.812 | 37.99 | Pk | .1 | 10 | 48.09 | 60 | -11.91 | - | - |
| 12 | 10.81151 | 36.86 | Ca | .1 | 10 | 46.96 | - | - | 50 | -3.04 |
| 13 | 17.568 | 38.15 | Pk | .1 | 10.1 | 48.35 | 60 | -11.65 | - | - |
| 14 | 17.56826 | 34.39 | Ca | .1 | 10.1 | 44.59 | - | - | 50 | -5.41 |
| 15 | 18.921 | 40.58 | Pk | .1 | 10.1 | 50.78 | 60 | -9.22 | - | - |
| 16 | 18.92056 | 39.55 | Ca | .1 | 10.1 | 49.75 | - | - | 50 | -2.5 |

Pk - Peak detector
 Av - Average detection
 Ca - CISPR average detection

LINE 2 RESULTS – WORST-CASE CHANNEL



| Range 2: Line-L2 .15 - 30MHz | | | | | | | | | | |
|------------------------------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VCF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
| 17 | .153 | 37.45 | Pk | .2 | 9.8 | 47.45 | 65.84 | -18.39 | - | - |
| 18 | .204 | 20.53 | Av | .1 | 9.8 | 30.43 | - | - | 53.45 | -23.02 |
| 19 | .27 | 30.41 | Pk | .1 | 9.8 | 40.31 | 61.12 | -20.81 | - | - |
| 20 | .27 | 29.15 | Av | .1 | 9.8 | 39.05 | - | - | 51.12 | -12.07 |
| 21 | 1.623 | 27.44 | Pk | 0 | 9.8 | 37.24 | 56 | -18.76 | - | - |
| 22 | 1.623 | 26.13 | Av | 0 | 9.8 | 35.93 | - | - | 46 | -10.07 |
| 23 | 2.703 | 29.66 | Pk | 0 | 9.8 | 39.46 | 56 | -16.54 | - | - |
| 24 | 2.703 | 28.65 | Av | 0 | 9.8 | 38.45 | - | - | 46 | -7.55 |
| 25 | 15.018 | 34.06 | Pk | .1 | 10.1 | 44.26 | 60 | -15.74 | - | - |
| 26 | 15.018 | 32.93 | Av | .1 | 10.1 | 43.13 | - | - | 50 | -6.87 |
| 27 | 18.921 | 38.93 | Pk | .1 | 10.1 | 49.13 | 60 | -10.87 | - | - |
| 28 | 18.91961 | 37.37 | Ca | .1 | 10.1 | 47.57 | - | - | 50 | -2.43 |

Pk - Peak detector
 Av - Average detection
 Ca - CISPR average detection

END OF REPORT