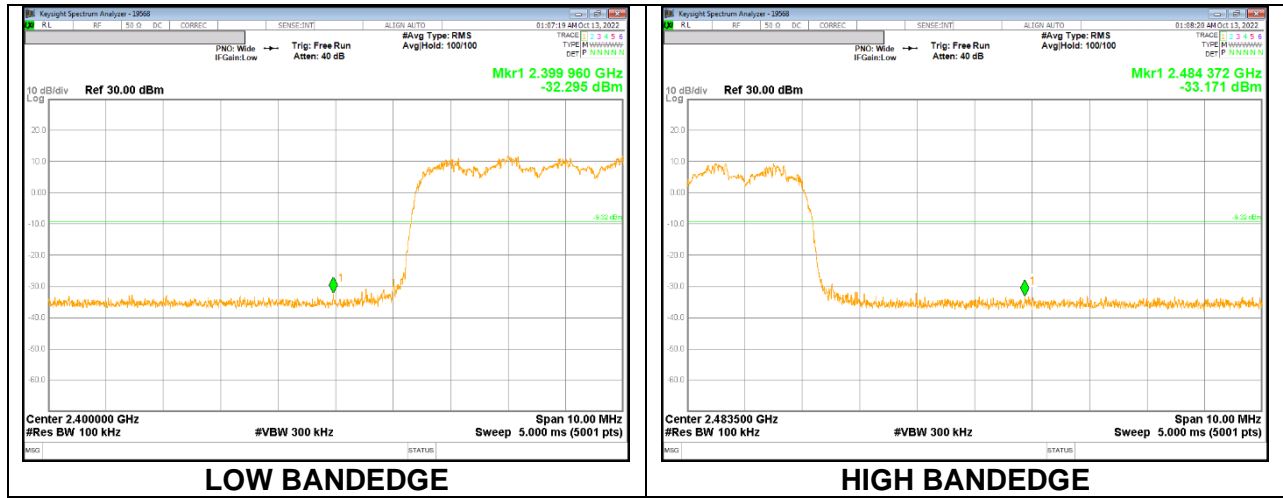


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

| Limits for radiated disturbance of an intentional radiator | | |
|--|-----------------|--------------------------|
| Frequency range (MHz) | Limits (µV/m) | Measurement Distance (m) |
| 0.009 – 0.490 | 2400 / F (kHz) | 300 |
| 0.490 – 1.705 | 24000 / F (kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100** | 3 |
| 88 - 216 | 150** | 3 |
| 216 – 960 | 200** | 3 |
| Above 960 | 500 | 3 |

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

| MHz | MHz | MHz | MHz | GHz | GHz |
|-------------------|---------------------|----------------|-----------------|--------------|---------------|
| 0.009 – 0.110 | 8.41425 ~ 8.41475 | 108 ~ 121.94 | 1300 ~ 1427 | 4.5 ~ 5.15 | 14.47 ~ 14.5 |
| 0.495 – 0.505 | 12.29 ~ 12.293 | 123 ~ 138 | 1435 ~ 1626.5 | 5.35 ~ 5.46 | 15.35 ~ 16.2 |
| 2.1735 ~ 2.1905 | 12.51975 ~ 12.52025 | 149.9 ~ 150.05 | 1645.5 ~ 1646.5 | 7.25 ~ 7.75 | 17.7 ~ 21.4 |
| 4.125 ~ 4.128 | 12.57675 ~ 12.57725 | 156.52475 ~ | 1660 ~ 1710 | 8.025 ~ 8.5 | 22.01 ~ 23.12 |
| 4.17725 ~ 4.17775 | 13.36 ~ 13.41 | 156.52525 | 1718.8 ~ 1722.2 | 9.0 ~ 9.2 | 23.6 ~ 24.0 |
| 4.20725 ~ 4.20775 | 16.42 ~ 16.423 | 156.7 ~ 156.9 | 2200 ~ 2300 | 9.3 ~ 9.5 | 31.2 ~ 31.8 |
| 6.215 ~ 6.218 | 16.69475 ~ 16.69525 | 162.0125 ~ | 2310 ~ 2390 | 10.6 ~ 12.7 | 36.43 ~ 36.5 |
| 6.26775 ~ 6.26825 | 16.80425 ~ 16.80475 | 167.17 | 2483.5 ~ 2500 | 13.25 ~ 13.4 | Above 38.6 |
| 6.31175 ~ 6.31225 | 25.5 ~ 25.67 | 167.72 ~ 173.2 | 2655 ~ 2900 | | |
| 8.291 ~ 8.294 | 37.5 ~ 38.25 | 240 ~ 285 | 3260 ~ 3267 | | |
| 8.362 ~ 8.366 | 73 ~ 74.6 | 322 ~ 335.4 | 3332 ~ 3339 | | |
| 8.37625 ~ 8.38675 | 74.8 ~ 75.2 | 399.90 ~ 410 | 3345.8 ~ 3358 | | |
| | | 608 ~ 614 | 3600 ~ 4400 | | |
| | | 960 ~ 1240 | | | |

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. 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 measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements.(Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.)

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1/T (on time) for average measurement.

$$\text{GFSK} = 1/T = 1 / 0.00288\text{s} = 347\text{Hz}.$$

The minimum VBW was 347Hz, but test receiver(ESU40) couldn't set value 348Hz. Due to this reason, testing VBW was set to 500Hz(Worst cases).

The spectrum from 1GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

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.

NOTE

Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

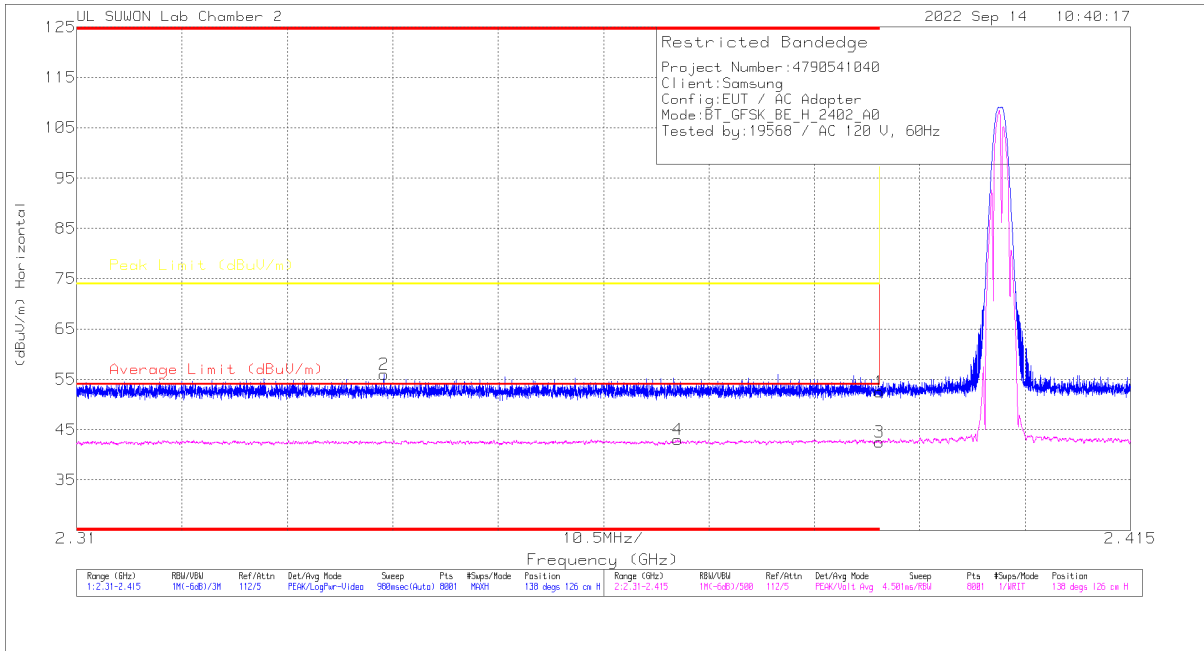
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BLUETOOTH BASIC DATA RATE GFSK MODULATION

- ANT1
 BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT



Trace Markers

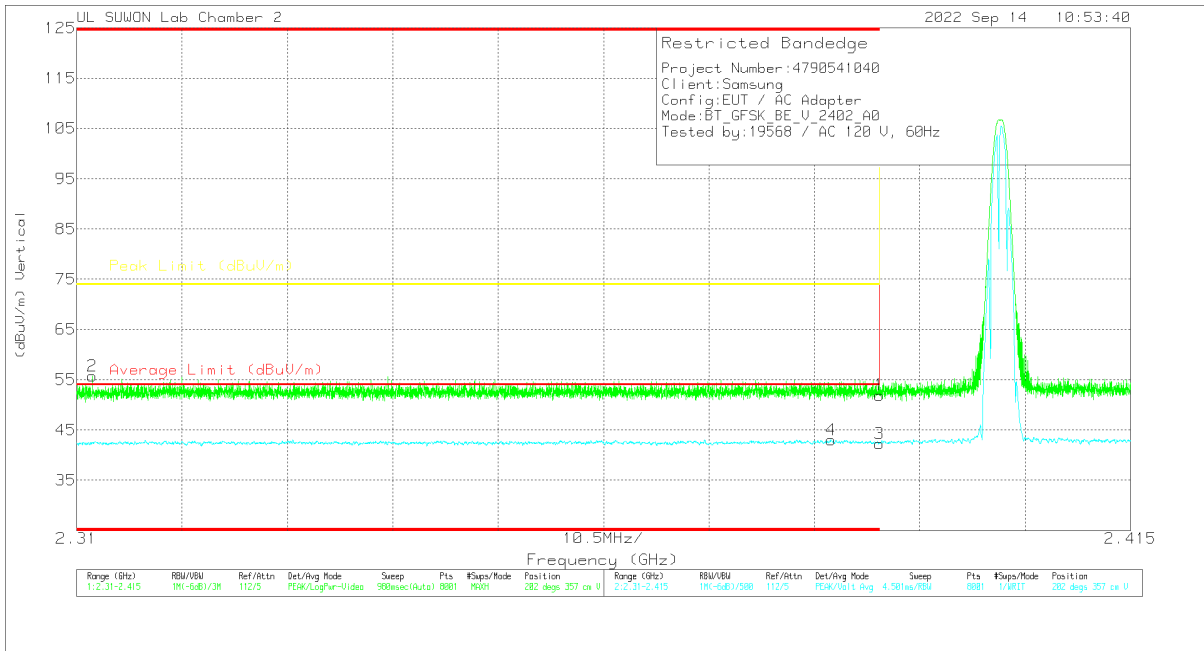
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 40.47 | Pk | 31.7 | -19.7 | 52.47 | - | - | 74 | -21.53 | 138 | 126 | H |
| 2 | * 2.34061 | 44.04 | Pk | 31.6 | -19.6 | 56.04 | - | - | 74 | -17.96 | 138 | 126 | H |
| 3 | * 2.39 | 30.56 | VA1T | 31.7 | -19.7 | 42.56 | 54 | -11.44 | - | - | 138 | 126 | H |
| 4 | * 2.36988 | 30.95 | VA1T | 31.7 | -19.6 | 43.05 | 54 | -10.95 | - | - | 138 | 126 | H |

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

Pk - Peak detector

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

VERTICAL RESULT



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[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 | 39.94 | Pk | 31.7 | -19.7 | 51.94 | - | - | 74 | -22.06 | 202 | 357 | V |
| 2 | * 2.31156 | 43.7 | Pk | 31.6 | -19.6 | 55.7 | - | - | 74 | -18.3 | 202 | 357 | V |
| 3 | * 2.39 | 30.32 | VA1T | 31.7 | -19.7 | 42.32 | 54 | -11.68 | - | - | 202 | 357 | V |
| 4 | * 2.38515 | 30.95 | VA1T | 31.7 | -19.6 | 43.05 | 54 | -10.95 | - | - | 202 | 357 | V |

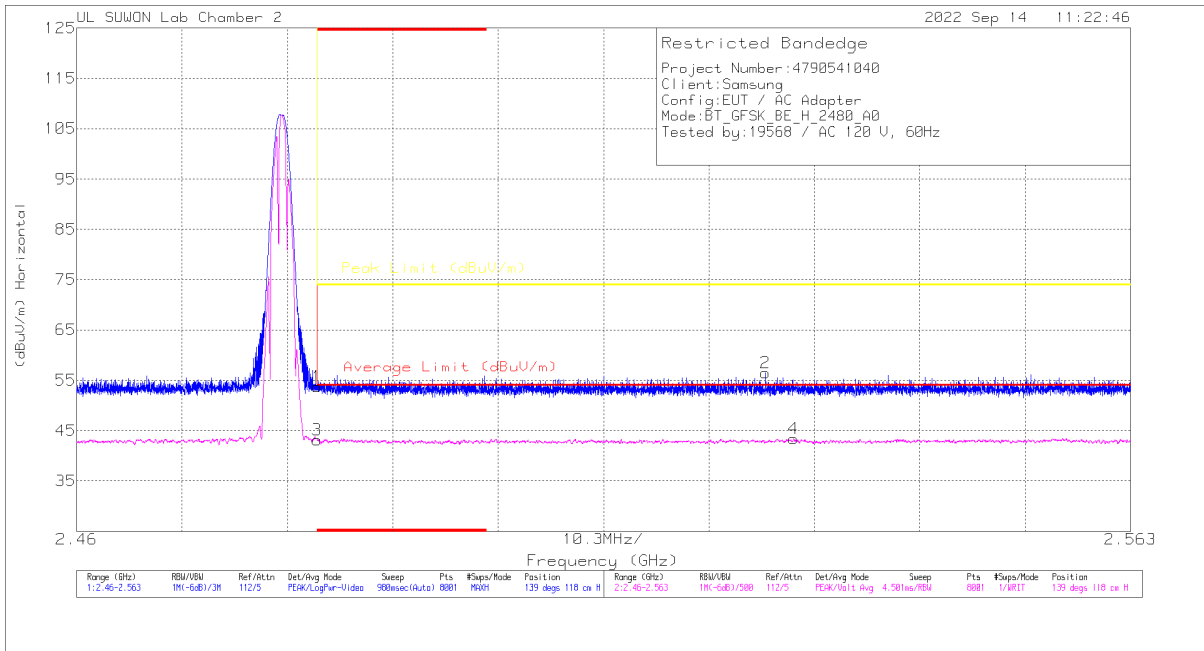
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (78 CHANNEL)

HORIZONTAL RESULT

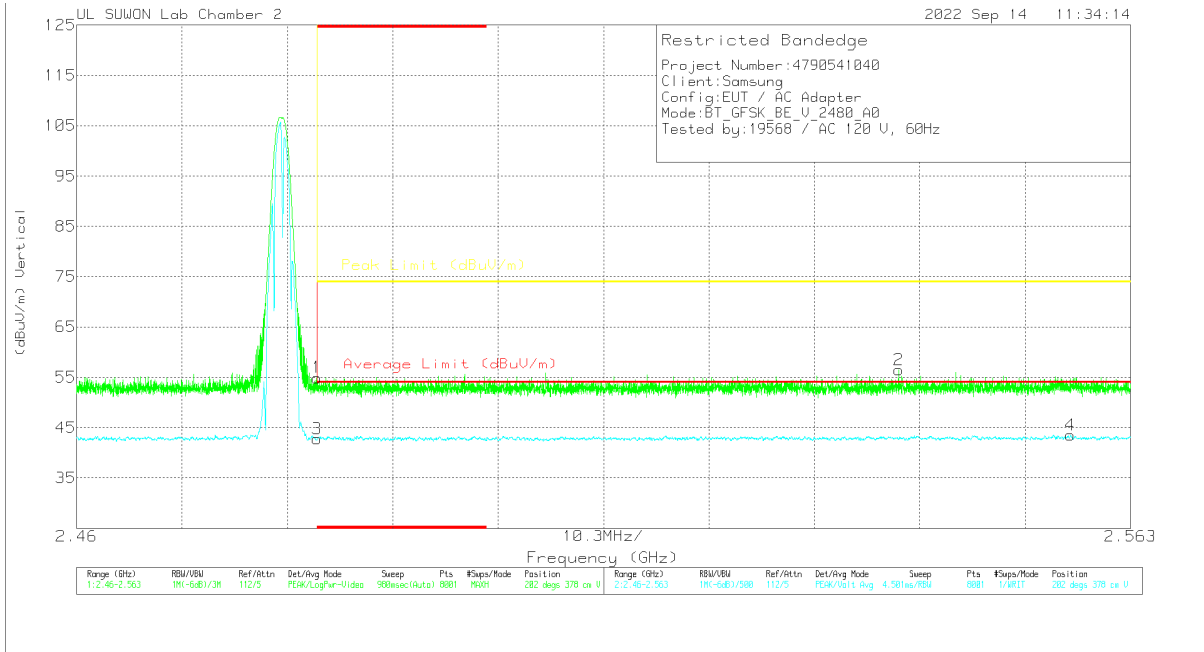


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 41.39 | Pk | 31.9 | -19.6 | 53.69 | - | - | 74 | -20.31 | 139 | 118 | H |
| 2 | 2.52731 | 44.11 | Pk | 31.9 | -19.5 | 56.51 | - | - | 74 | -17.49 | 139 | 118 | H |
| 3 | * 2.48351 | 30.89 | VA1T | 31.9 | -19.6 | 43.19 | 54 | -10.81 | - | - | 139 | 118 | H |
| 4 | 2.53008 | 30.84 | VA1T | 31.9 | -19.3 | 43.44 | 54 | -10.56 | - | - | 139 | 118 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



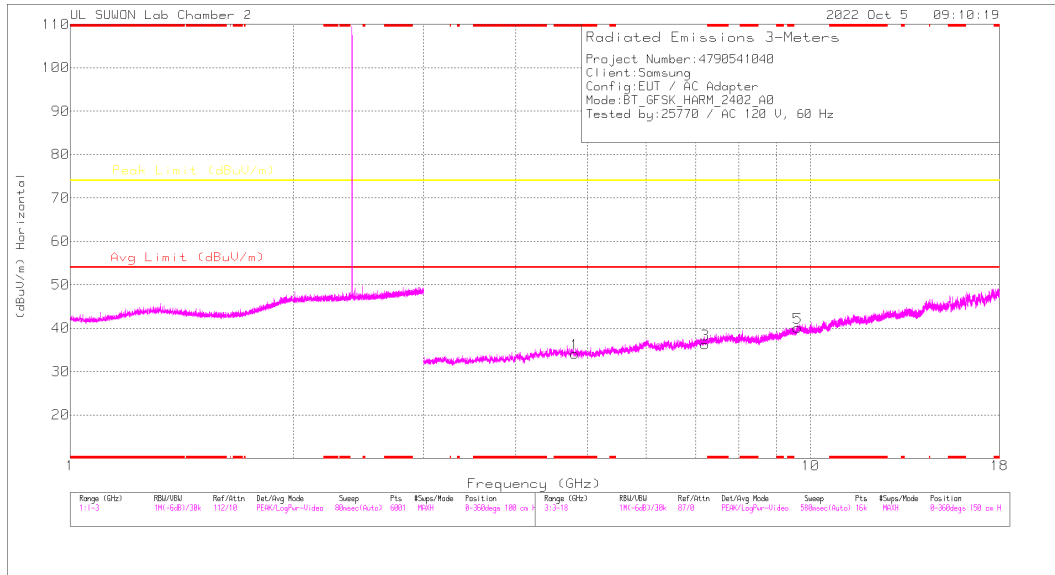
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 42.63 | Pk | 31.9 | -19.6 | 54.93 | - | - | 74 | -19.07 | 202 | 378 | V |
| 2 | 2.54033 | 43.93 | Pk | 32 | -19.4 | 56.53 | - | - | 74 | -17.47 | 202 | 378 | V |
| 3 | * 2.48351 | 30.48 | VA1T | 31.9 | -19.6 | 42.78 | 54 | -11.22 | - | - | 202 | 378 | V |
| 4 | 2.55713 | 30.89 | VA1T | 32 | -19.4 | 43.49 | 54 | -10.51 | - | - | 202 | 378 | V |

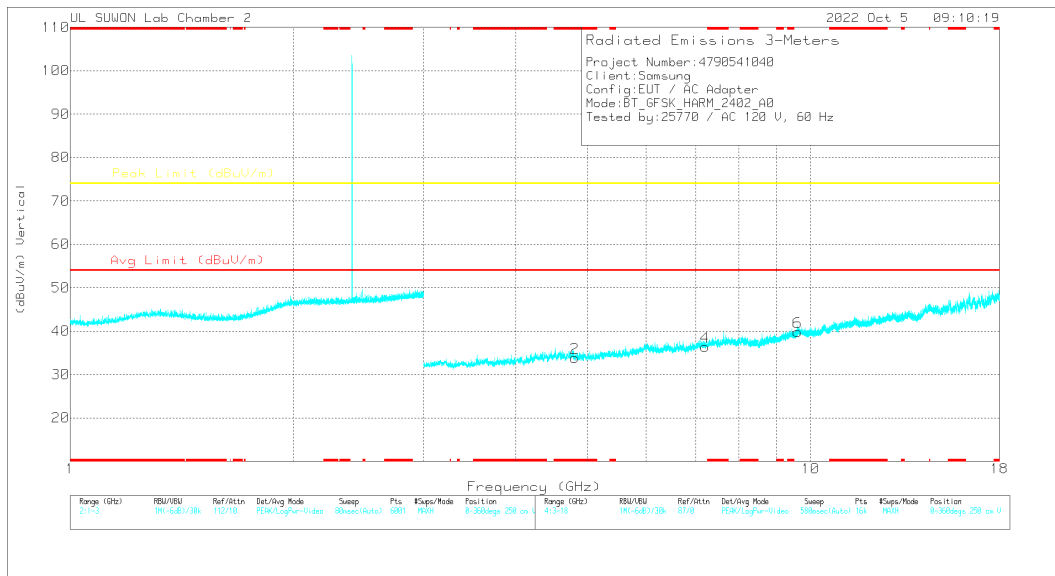
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



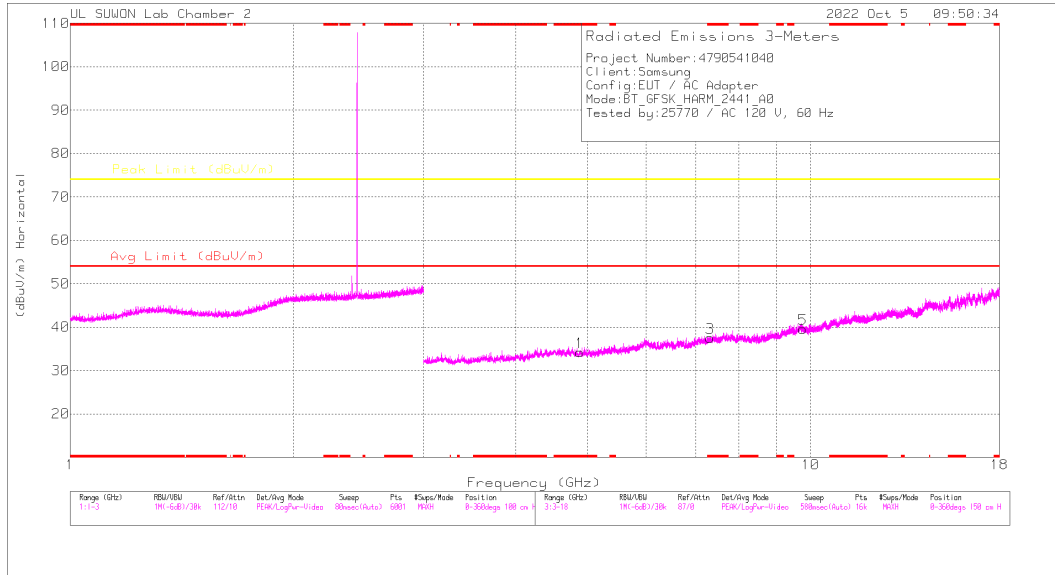
VERTICAL

RADIATED EMISSIONS

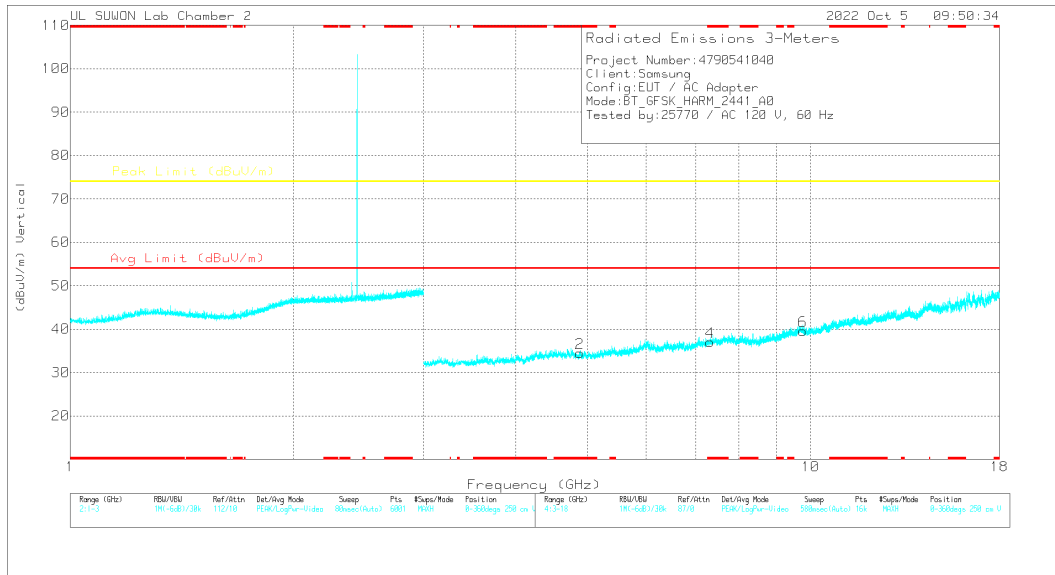
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.81006 | 35.51 | PKFH | 34 | -27.8 | 0 | 41.71 | - | - | 74 | -32.29 | 0 | 100 | H |
| * 4.80349 | 35.33 | PKFH | 34 | -27.7 | 0 | 41.63 | - | - | 74 | -32.37 | 0 | 100 | V |
| 7.19797 | 34.3 | PKFH | 35.6 | -25 | 0 | 44.9 | - | - | 74 | -29.1 | 0 | 100 | H |
| 7.21372 | 34.26 | PKFH | 35.7 | -25.1 | 0 | 44.86 | - | - | 74 | -29.14 | 0 | 100 | V |
| 9.61337 | 31.38 | PKFH | 36.9 | -21.2 | 0 | 47.08 | - | - | 74 | -26.92 | 0 | 100 | H |
| 9.6121 | 31.66 | PKFH | 36.9 | -21.3 | 0 | 47.26 | - | - | 74 | -26.74 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

39 CHANNEL RESULTS



HORIZONTAL



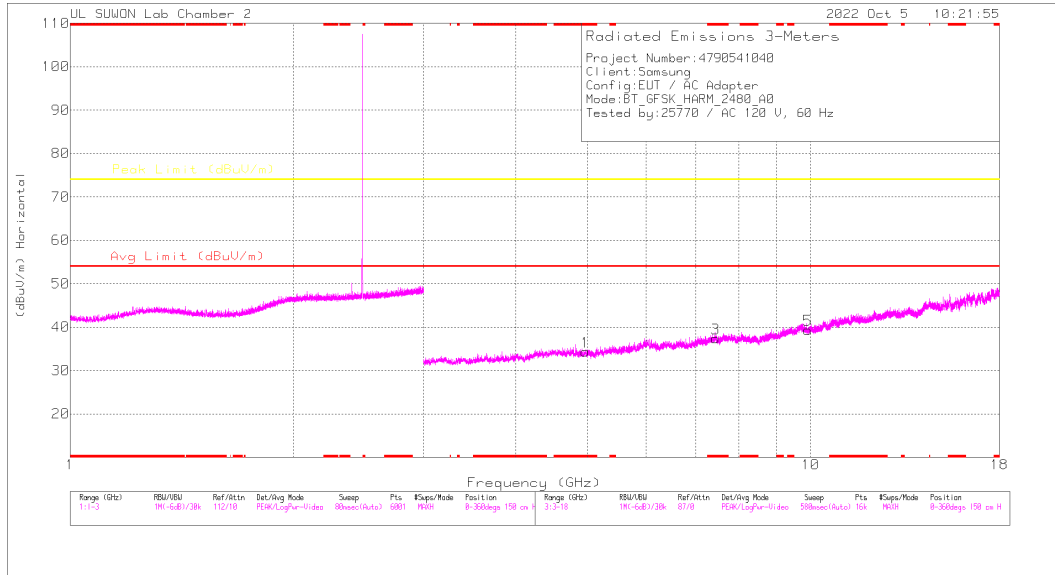
VERTICAL

RADIATED EMISSIONS

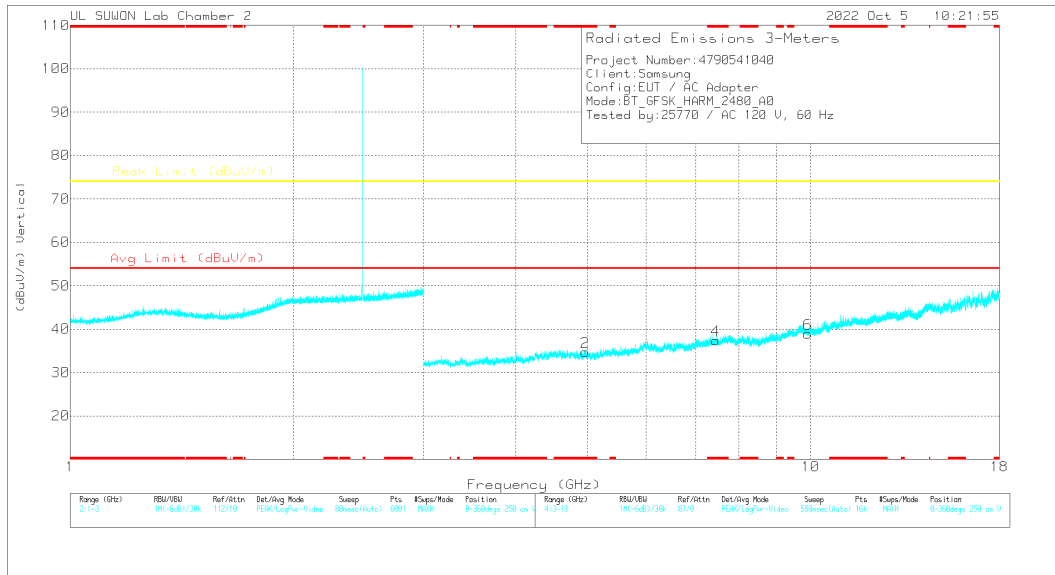
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.88001 | 36.15 | PKFH | 34 | -27.7 | 0 | 42.45 | - | - | 74 | -31.55 | 0 | 100 | H |
| * 4.88749 | 36.25 | PKFH | 34 | -27.6 | 0 | 42.65 | - | - | 74 | -31.35 | 0 | 100 | V |
| * 7.3259 | 33.78 | PKFH | 35.7 | -24.4 | 0 | 45.08 | - | - | 74 | -28.92 | 0 | 100 | H |
| * 7.31391 | 35.6 | PKFH | 35.7 | -24.6 | 0 | 46.7 | - | - | 74 | -27.3 | 0 | 100 | V |
| 9.76697 | 31.52 | PKFH | 37.1 | -21 | 0 | 47.62 | - | - | 74 | -26.38 | 0 | 100 | H |
| 9.75998 | 31.52 | PKFH | 37.1 | -21 | 0 | 47.62 | - | - | 74 | -26.38 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

78 CHANNEL RESULTS



HORIZONTAL



VERTICAL

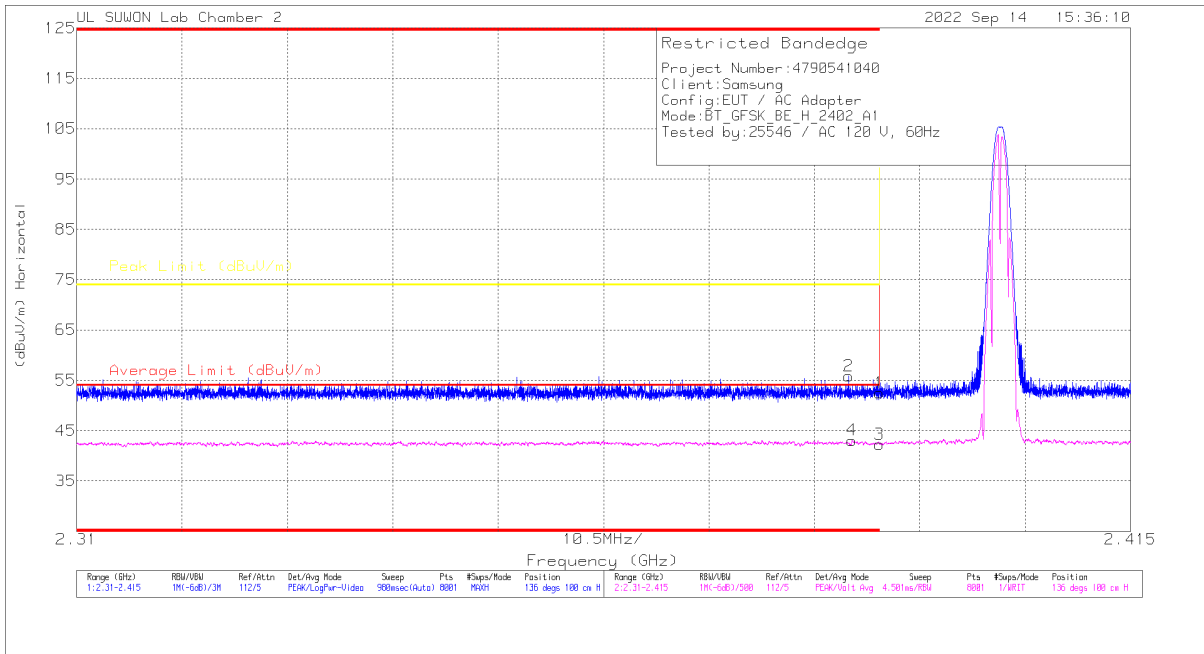
RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.96326 | 35.01 | PKFH | 34 | -26.9 | 0 | 42.11 | - | - | 74 | -31.89 | 0 | 100 | H |
| * 4.96972 | 35.25 | PKFH | 34 | -27 | 0 | 42.25 | - | - | 74 | -31.75 | 0 | 100 | V |
| * 7.443607 | 34.13 | PKFH | 35.7 | -23.7 | 0 | 46.13 | - | - | 74 | -27.87 | 0 | 100 | H |
| * 7.44347 | 33.6 | PKFH | 35.7 | -23.7 | 0 | 45.6 | - | - | 74 | -28.4 | 0 | 100 | V |
| 9.92127 | 31.37 | PKFH | 37.3 | -21.1 | 0 | 47.57 | - | - | 74 | -26.43 | 0 | 100 | H |
| 9.91143 | 30.8 | PKFH | 37.3 | -21.1 | 0 | 47 | - | - | 74 | -27 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

**- ANT2
 BANDEGE (0 CHANNEL)**

HORIZONTAL RESULT

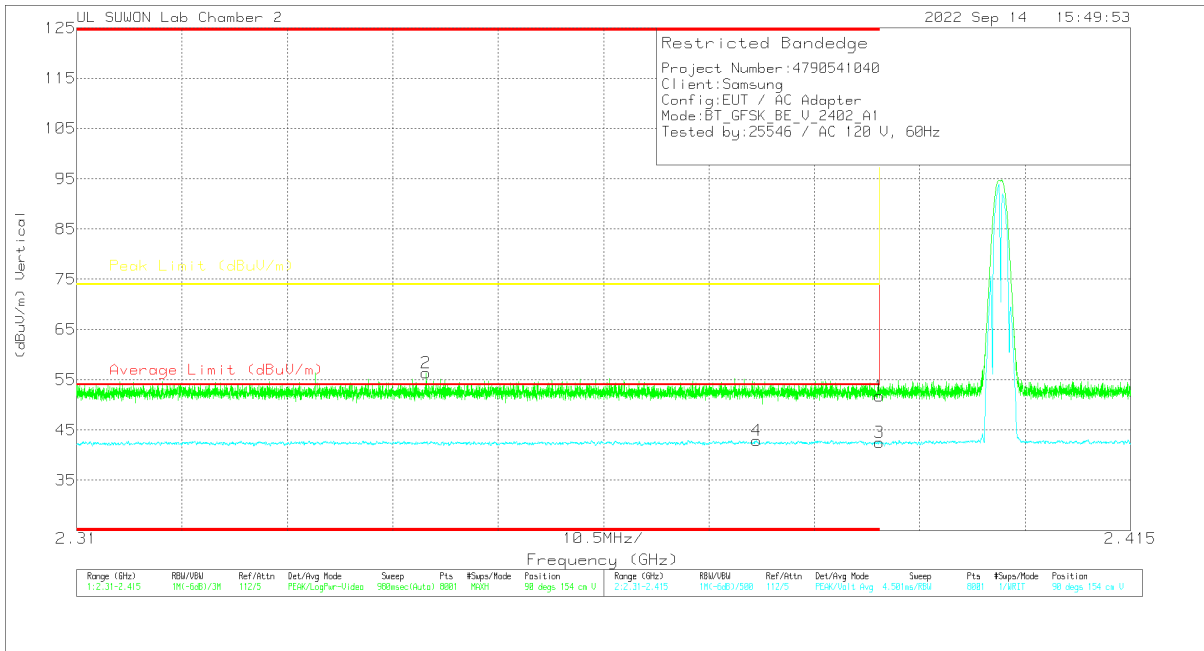


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[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 | 40.53 | Pk | 31.7 | -19.7 | 52.53 | - | - | 74 | -21.47 | 136 | 100 | H |
| 2 | * 2.3869 | 43.82 | Pk | 31.7 | -19.6 | 55.92 | - | - | 74 | -18.08 | 136 | 100 | H |
| 3 | * 2.39 | 30.29 | VA1T | 31.7 | -19.7 | 42.29 | 54 | -11.71 | - | - | 136 | 100 | H |
| 4 | * 2.38725 | 30.99 | VA1T | 31.7 | -19.6 | 43.09 | 54 | -10.91 | - | - | 136 | 100 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



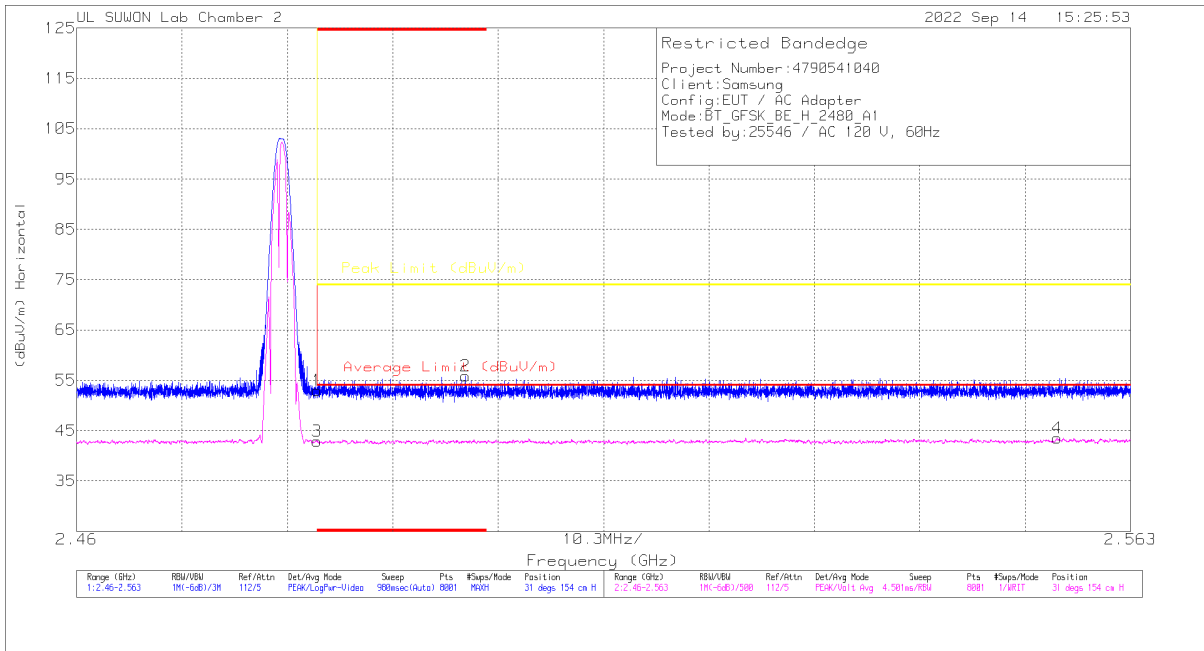
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[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 | 39.7 | Pk | 31.7 | -19.7 | 51.7 | - | - | 74 | -22.3 | 90 | 154 | V |
| 2 | * 2.34483 | 44.32 | Pk | 31.6 | -19.6 | 56.32 | - | - | 74 | -17.68 | 90 | 154 | V |
| 3 | * 2.39 | 30.53 | VA1T | 31.7 | -19.7 | 42.53 | 54 | -11.47 | - | - | 90 | 154 | V |
| 4 | * 2.37775 | 30.72 | VA1T | 31.7 | -19.5 | 42.92 | 54 | -11.08 | - | - | 90 | 154 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (78 CHANNEL)

HORIZONTAL RESULT

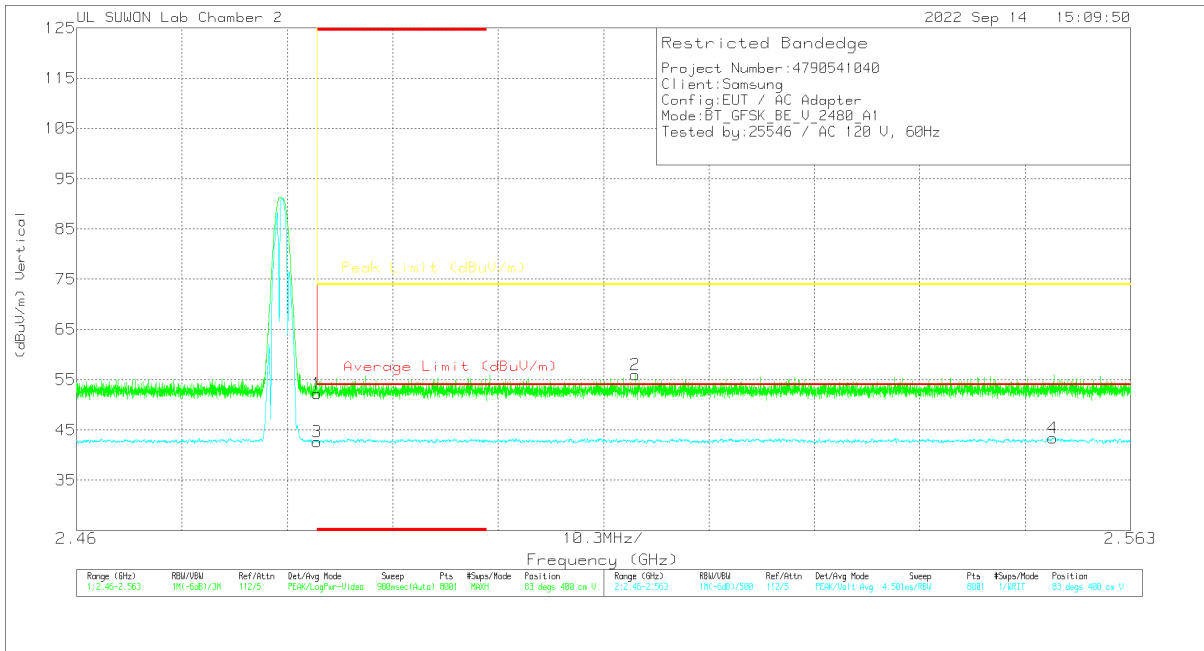


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 40.71 | Pk | 31.9 | -19.6 | 53.01 | - | - | 74 | -20.99 | 31 | 154 | H |
| 2 | * 2.49798 | 43.41 | Pk | 31.9 | -19.5 | 55.81 | - | - | 74 | -18.19 | 31 | 154 | H |
| 3 | * 2.48351 | 30.61 | VA1T | 31.9 | -19.6 | 42.91 | 54 | -11.09 | - | - | 31 | 154 | H |
| 4 | 2.55583 | 30.79 | VA1T | 32 | -19.3 | 43.49 | 54 | -10.51 | - | - | 31 | 154 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



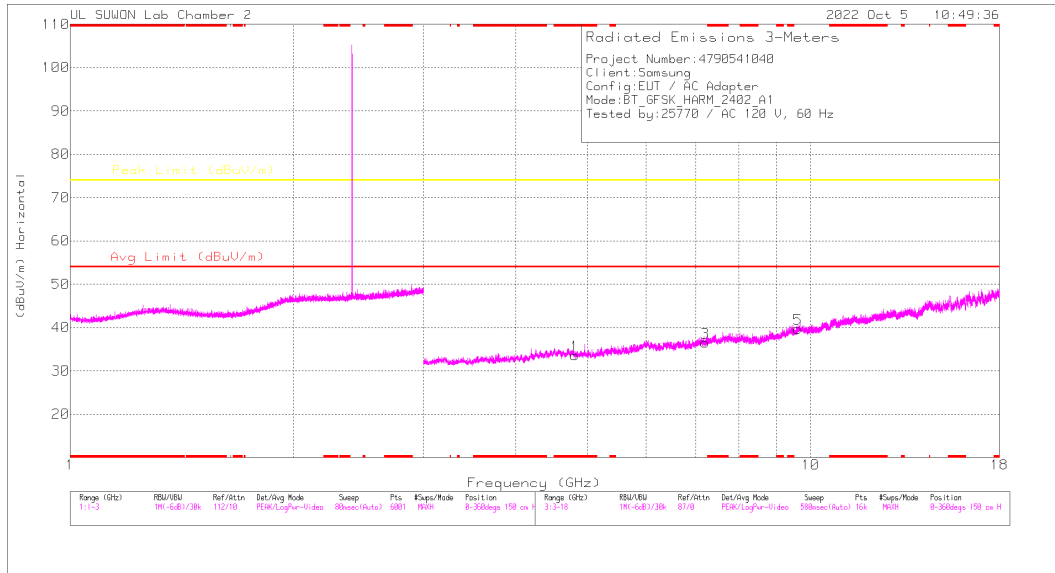
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 39.91 | Pk | 31.9 | -19.6 | 52.21 | - | - | 74 | -21.79 | 83 | 400 | V |
| 2 | 2.51456 | 43.71 | Pk | 31.9 | -19.6 | 56.01 | - | - | 74 | -17.99 | 83 | 400 | V |
| 3 | * 2.48351 | 30.39 | VA1T | 31.9 | -19.6 | 42.69 | 54 | -11.31 | - | - | 83 | 400 | V |
| 4 | 2.55542 | 30.75 | VA1T | 32 | -19.3 | 43.45 | 54 | -10.55 | - | - | 83 | 400 | V |

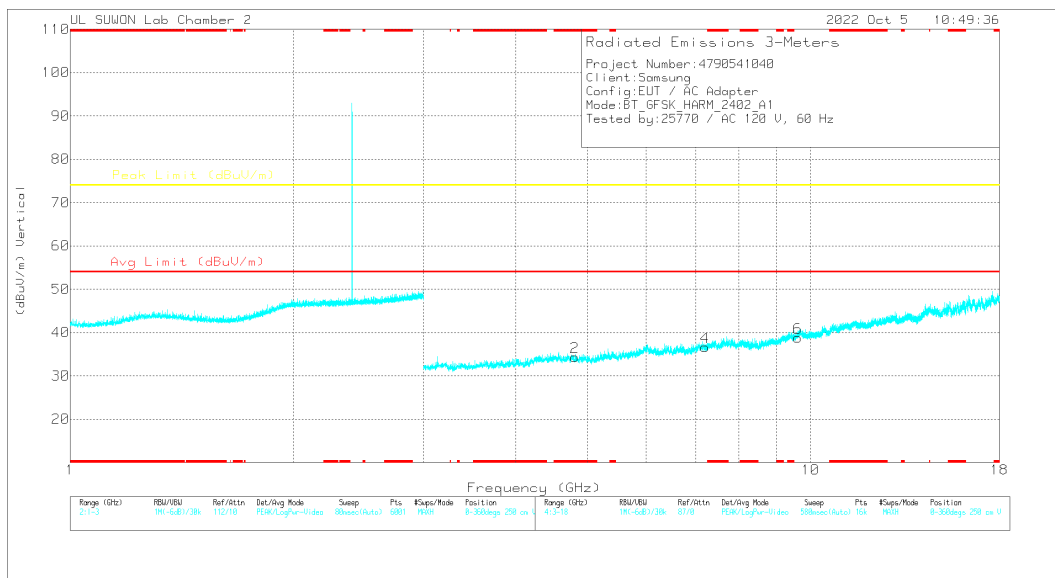
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



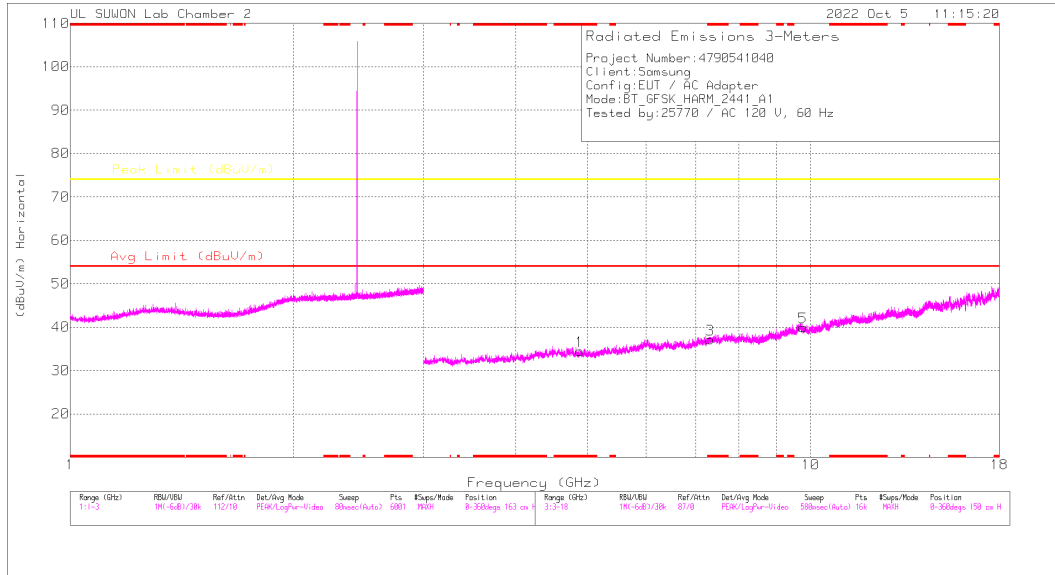
VERTICAL

RADIATED EMISSIONS

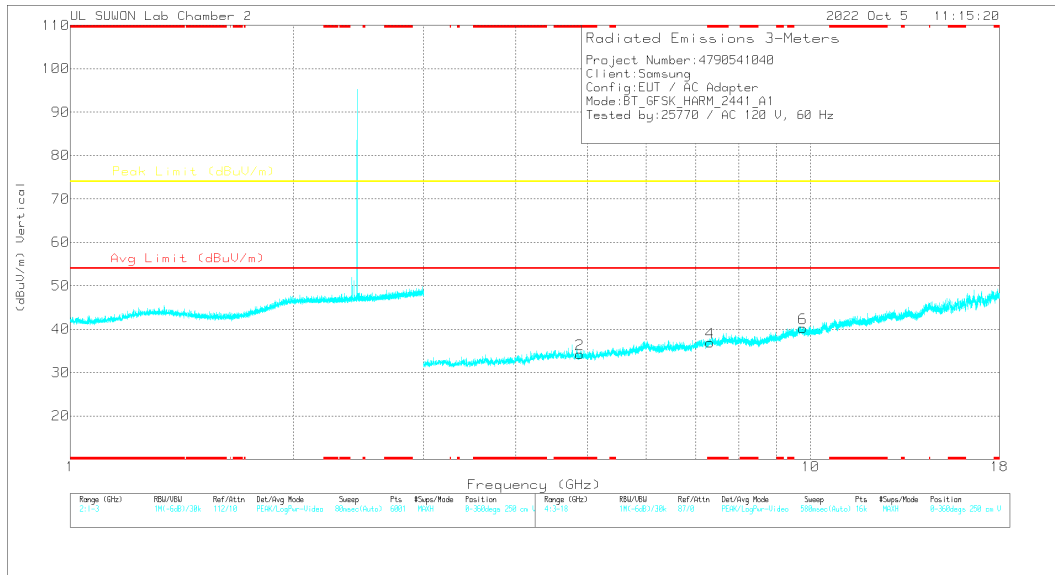
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.80391 | 35.44 | PKFH | 34 | -27.7 | 0 | 41.74 | - | - | 74 | -32.26 | 0 | 100 | H |
| * 4.80975 | 35.02 | PKFH | 34 | -27.8 | 0 | 41.22 | - | - | 74 | -32.78 | 0 | 100 | V |
| 7.20406 | 34.09 | PKFH | 35.7 | -25 | 0 | 44.79 | - | - | 74 | -29.21 | 0 | 100 | H |
| 7.20481 | 34.43 | PKFH | 35.7 | -25 | 0 | 45.13 | - | - | 74 | -28.87 | 0 | 100 | V |
| 9.61816 | 31.81 | PKFH | 36.9 | -21.1 | 0 | 47.61 | - | - | 74 | -26.39 | 0 | 100 | H |
| 9.61803 | 31.67 | PKFH | 36.9 | -21.1 | 0 | 47.47 | - | - | 74 | -26.53 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

39 CHANNEL RESULTS



HORIZONTAL



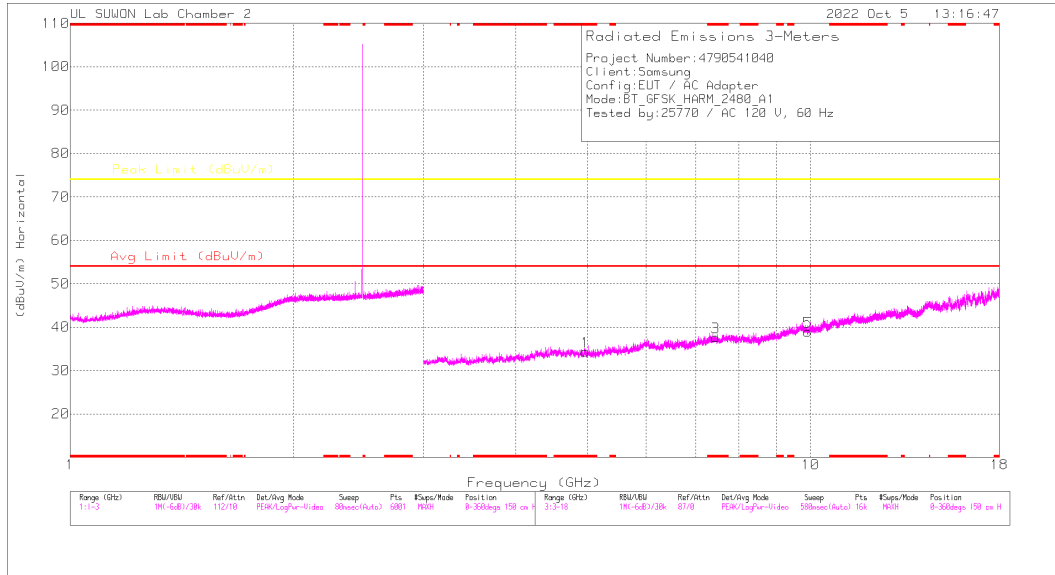
VERTICAL

RADIATED EMISSIONS

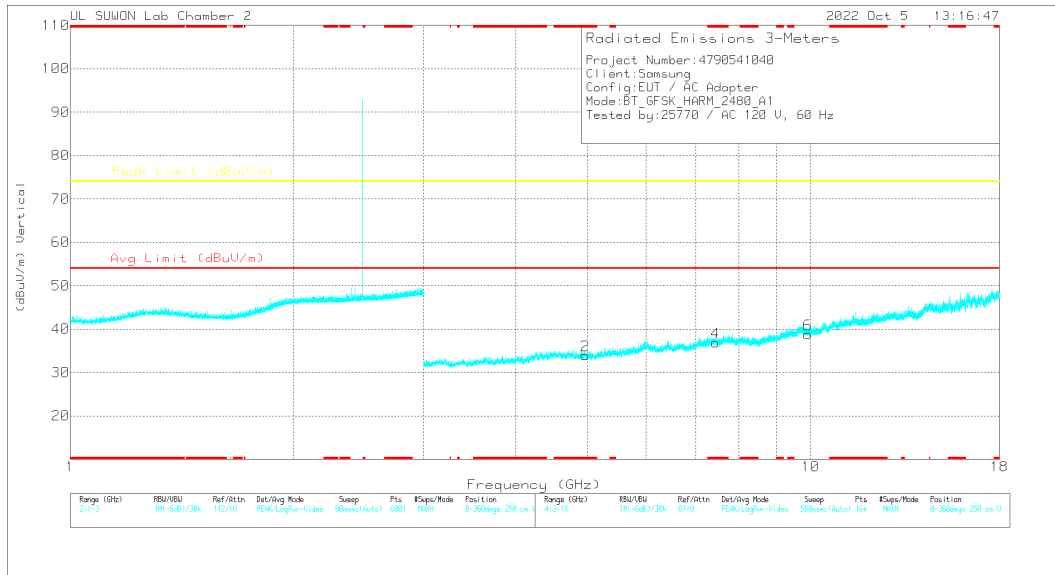
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.88297 | 36.47 | PKFH | 34 | -27.6 | 0 | 42.87 | - | - | 74 | -31.13 | 0 | 100 | H |
| * 4.88877 | 36.09 | PKFH | 34 | -27.5 | 0 | 42.59 | - | - | 74 | -31.41 | 0 | 100 | V |
| * 7.31715 | 33.94 | PKFH | 35.7 | -24.6 | 0 | 45.04 | - | - | 74 | -28.96 | 0 | 100 | H |
| * 7.3138 | 34 | PKFH | 35.7 | -24.6 | 0 | 45.1 | - | - | 74 | -28.9 | 0 | 100 | V |
| 9.75494 | 31.66 | PKFH | 37.1 | -20.9 | 0 | 47.86 | - | - | 74 | -26.14 | 0 | 100 | H |
| 9.7645 | 32.03 | PKFH | 37.1 | -21 | 0 | 48.13 | - | - | 74 | -25.87 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

78 CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

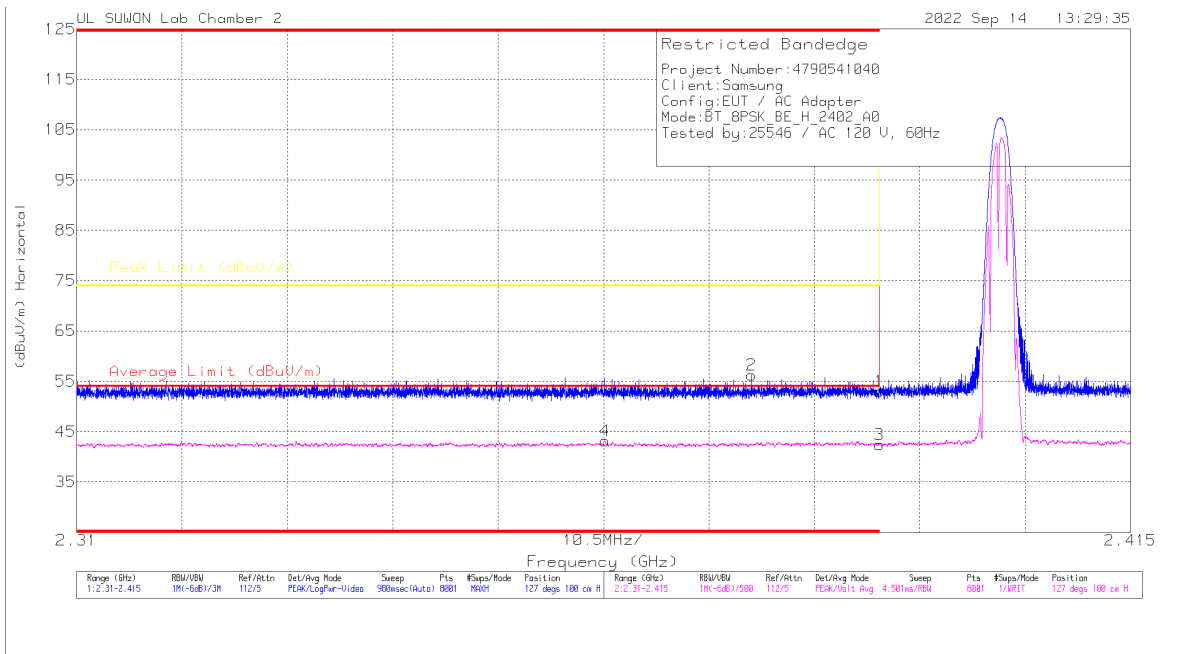
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872 4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.95544 | 35.9 | PKFH | 34 | -27 | 0 | 42.9 | - | - | 74 | -31.1 | 0 | 100 | H |
| * 4.96675 | 35.35 | PKFH | 34 | -27 | 0 | 42.35 | - | - | 74 | -31.65 | 0 | 100 | V |
| * 7.44594 | 33.35 | PKFH | 35.7 | -23.8 | 0 | 45.25 | - | - | 74 | -28.75 | 0 | 100 | H |
| * 7.44654 | 32.95 | PKFH | 35.7 | -23.8 | 0 | 44.85 | - | - | 74 | -29.15 | 0 | 100 | V |
| 9.92128 | 30.45 | PKFH | 37.3 | -21.1 | 0 | 46.65 | - | - | 74 | -27.35 | 0 | 100 | H |
| 9.92764 | 31.12 | PKFH | 37.3 | -21 | 0 | 47.42 | - | - | 74 | -26.58 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

10.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK MODULATION

- ANT1 BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT

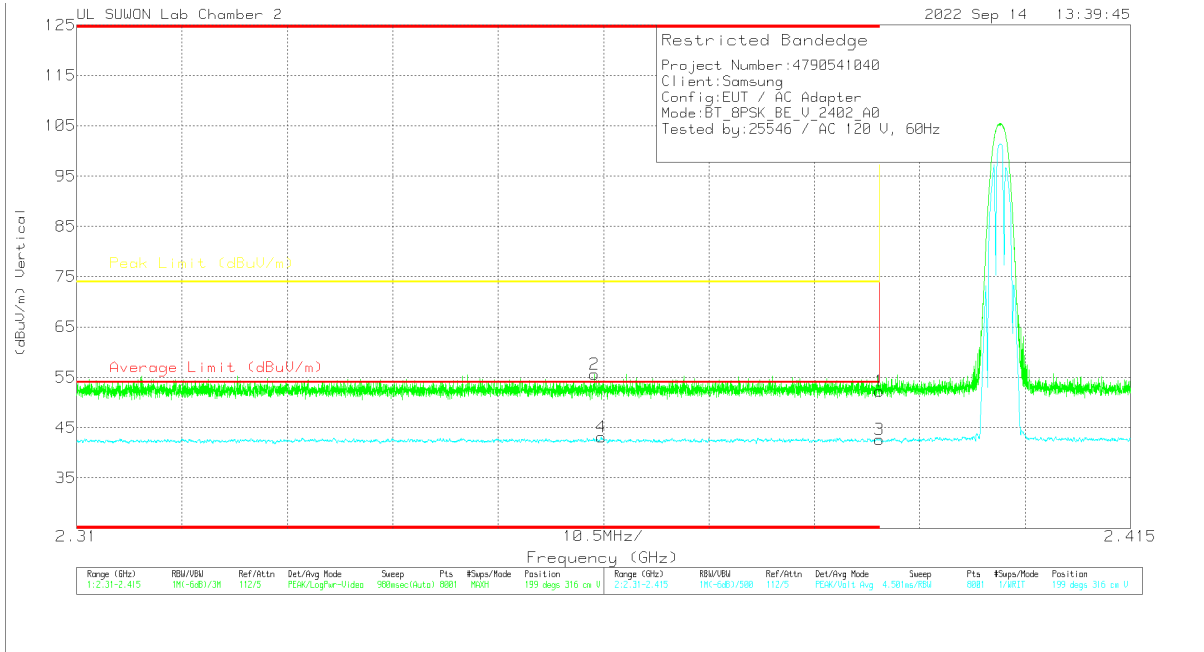


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[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 | 41.05 | Pk | 31.7 | -19.7 | 53.05 | - | - | 74 | -20.95 | 127 | 100 | H |
| 2 | * 2.37727 | 44.19 | Pk | 31.7 | -19.6 | 56.29 | - | - | 74 | -17.71 | 127 | 100 | H |
| 3 | * 2.39 | 30.38 | VA1T | 31.7 | -19.7 | 42.38 | 54 | -11.62 | - | - | 127 | 100 | H |
| 4 | * 2.36263 | 31.02 | VA1T | 31.6 | -19.5 | 43.12 | 54 | -10.88 | - | - | 127 | 100 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



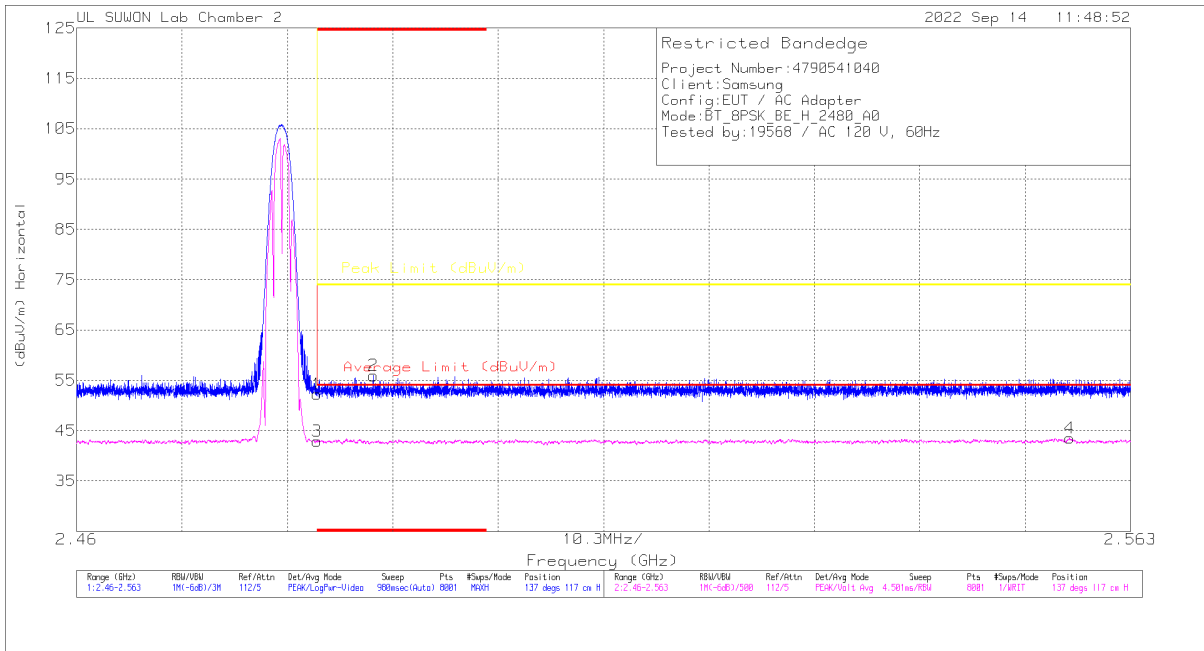
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[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 | 40.2 | Pk | 31.7 | -19.7 | 52.2 | - | - | 74 | -21.8 | 199 | 316 | V |
| 2 | * 2.36161 | 43.55 | Pk | 31.6 | -19.5 | 55.65 | - | - | 74 | -18.35 | 199 | 316 | V |
| 3 | * 2.39 | 30.6 | VA1T | 31.7 | -19.7 | 42.6 | 54 | -11.4 | - | - | 199 | 316 | V |
| 4 | * 2.36225 | 31.03 | VA1T | 31.6 | -19.5 | 43.13 | 54 | -10.87 | - | - | 199 | 316 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (78 CHANNEL)

HORIZONTAL RESULT

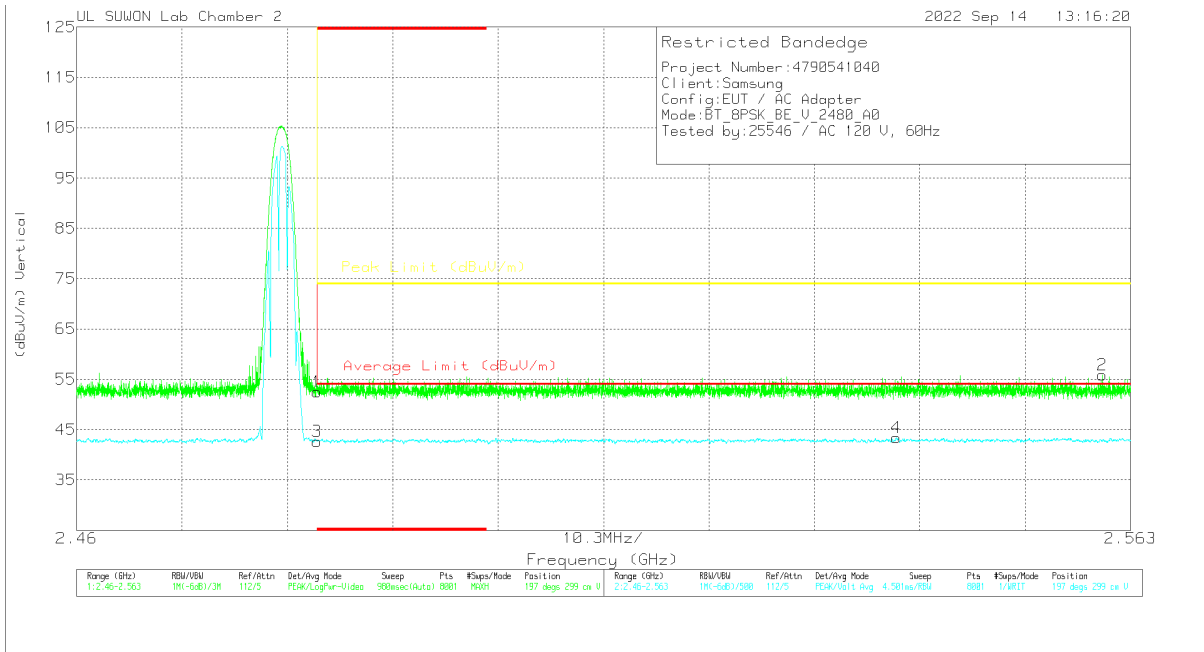


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 39.95 | Pk | 31.9 | -19.6 | 52.25 | - | - | 74 | -21.75 | 137 | 117 | H |
| 2 | * 2.48898 | 43.63 | Pk | 31.9 | -19.6 | 55.93 | - | - | 74 | -18.07 | 137 | 117 | H |
| 3 | * 2.48351 | 30.58 | VA1T | 31.9 | -19.6 | 42.88 | 54 | -11.12 | - | - | 137 | 117 | H |
| 4 | 2.55704 | 30.9 | VA1T | 32 | -19.4 | 43.5 | 54 | -10.5 | - | - | 137 | 117 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



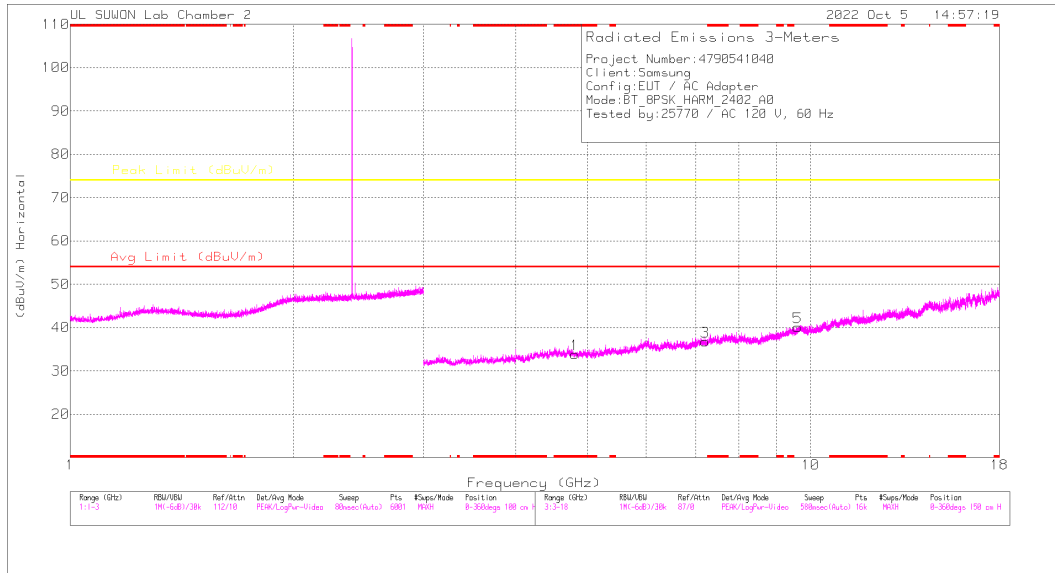
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 40.23 | Pk | 31.9 | -19.6 | 52.53 | - | - | 74 | -21.47 | 197 | 299 | V |
| 2 | 2.56024 | 43.41 | Pk | 32 | -19.5 | 55.91 | - | - | 74 | -18.09 | 197 | 299 | V |
| 3 | * 2.48351 | 30.41 | VA1T | 31.9 | -19.6 | 42.71 | 54 | -11.29 | - | - | 197 | 299 | V |
| 4 | 2.5401 | 30.81 | VA1T | 32 | -19.4 | 43.41 | 54 | -10.59 | - | - | 197 | 299 | V |

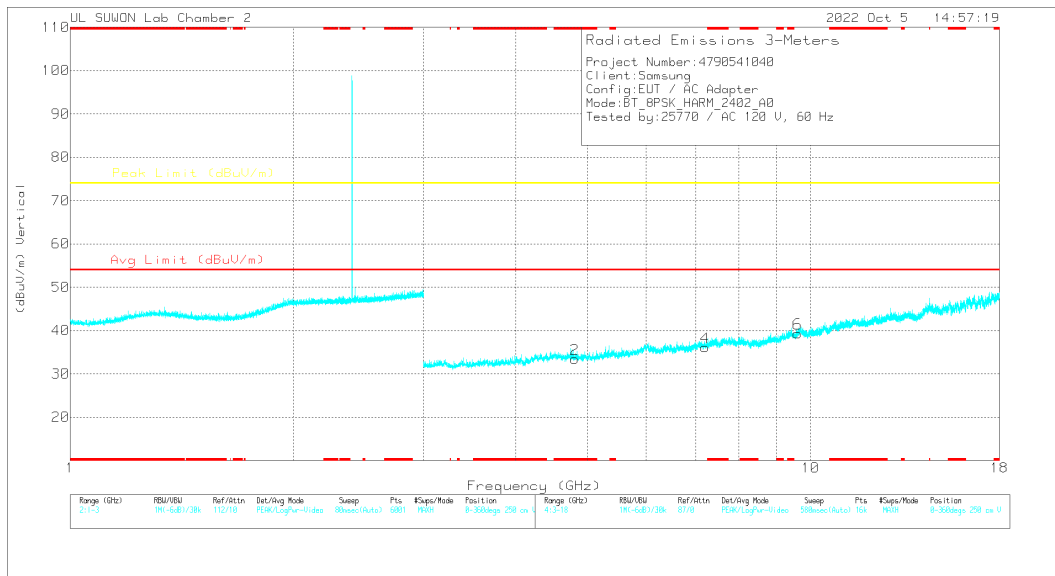
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



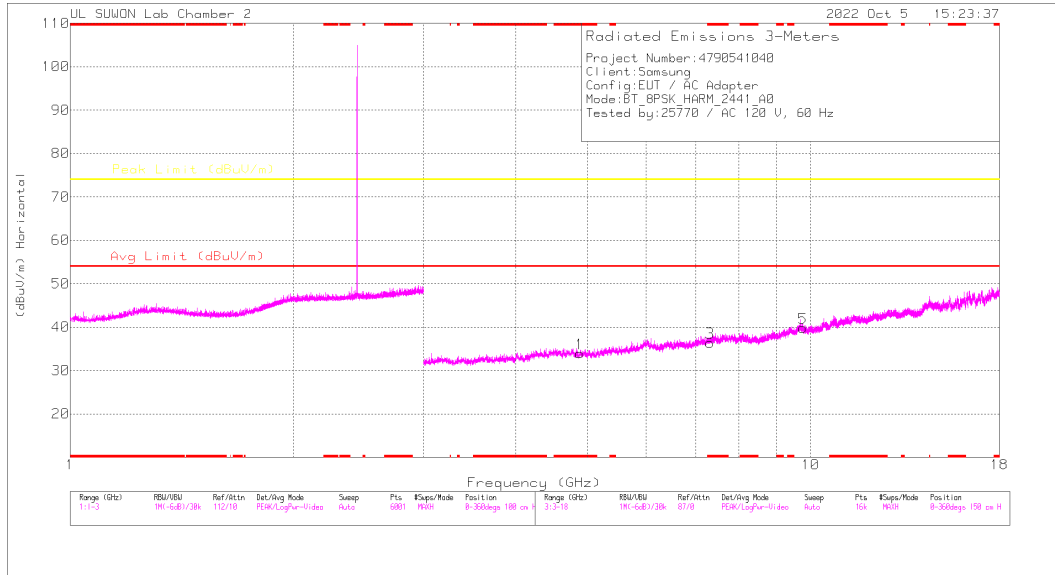
VERTICAL

RADIATED EMISSIONS

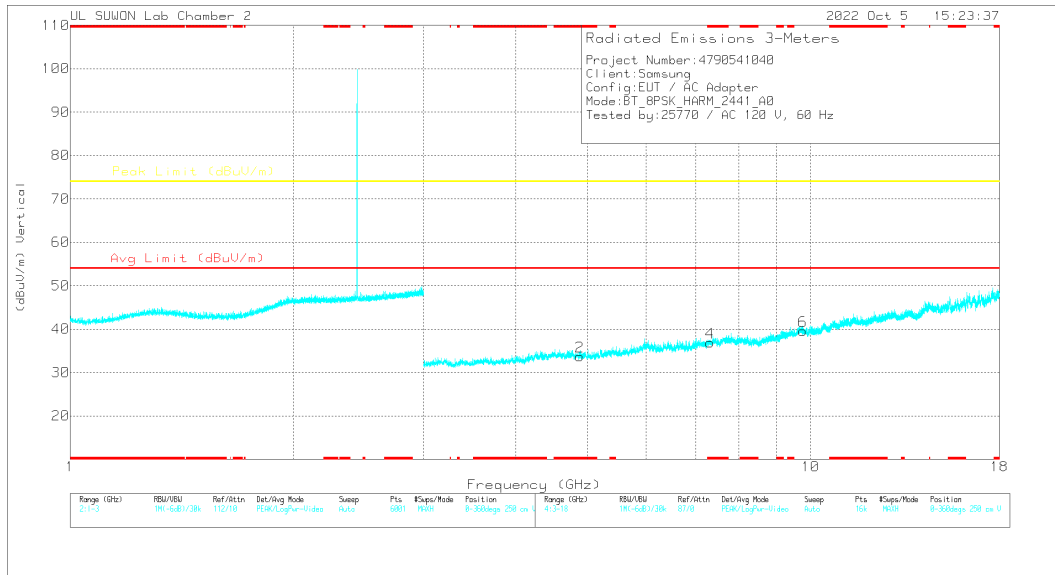
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.81156 | 35.36 | PKFH | 34 | -27.7 | 0 | 41.66 | - | - | 74 | -32.34 | 0 | 100 | H |
| * 4.69634 | 36.11 | PKFH | 34.1 | -27.7 | 0 | 42.51 | - | - | 74 | -31.49 | 0 | 100 | V |
| 7.21355 | 34.5 | PKFH | 35.7 | -25.1 | 0 | 45.1 | - | - | 74 | -28.9 | 0 | 100 | H |
| 7.20545 | 33.79 | PKFH | 35.7 | -25 | 0 | 44.49 | - | - | 74 | -29.51 | 0 | 100 | V |
| 9.60169 | 32.43 | PKFH | 36.9 | -21.3 | 0 | 48.03 | - | - | 74 | -25.97 | 0 | 100 | H |
| 9.60983 | 31.49 | PKFH | 36.9 | -21.2 | 0 | 47.19 | - | - | 74 | -26.81 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

39 CHANNEL RESULTS



HORIZONTAL



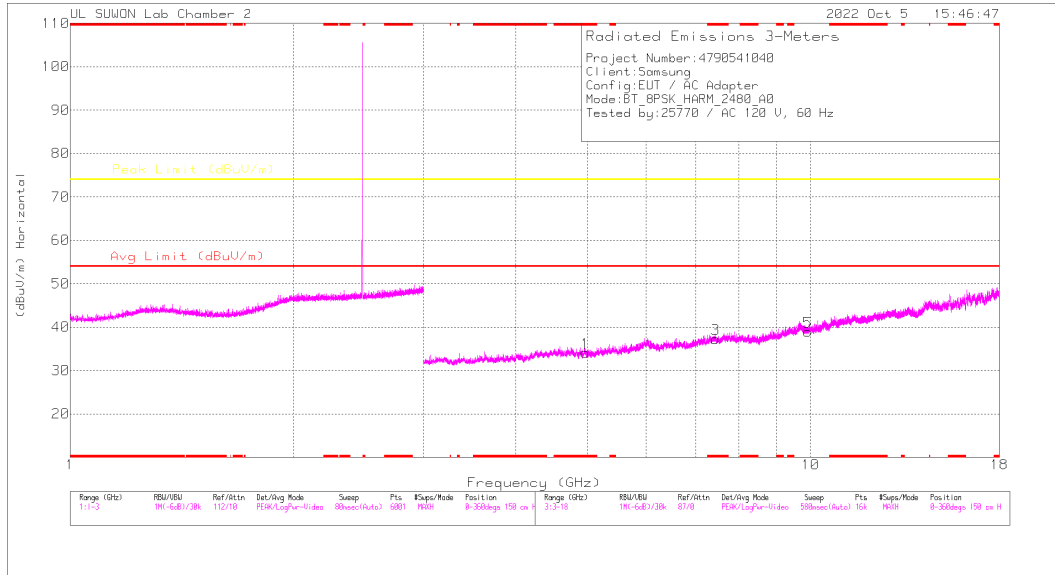
VERTICAL

RADIATED EMISSIONS

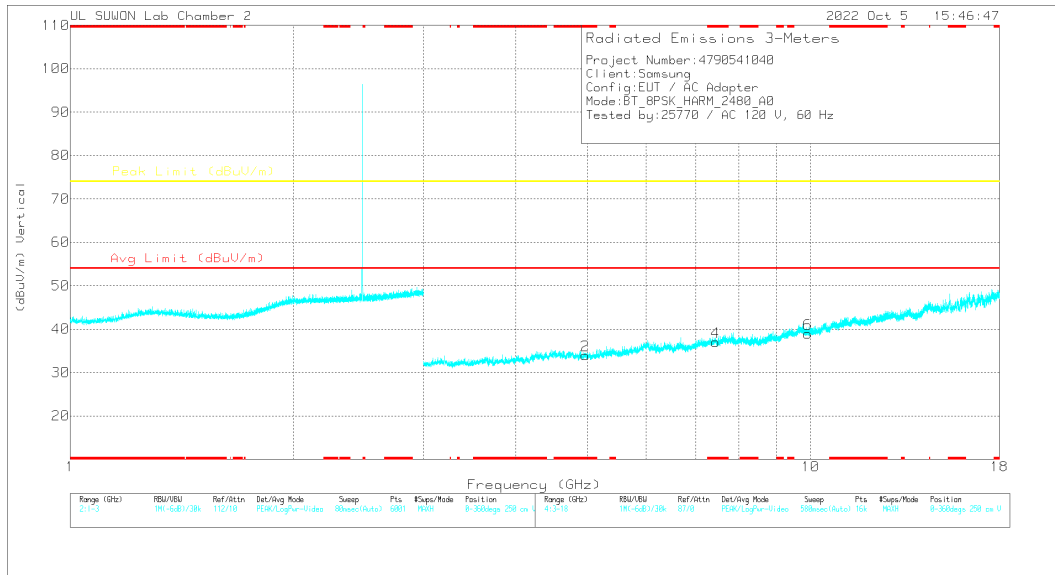
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.89238 | 35.67 | PKFH | 34 | -27.5 | 0 | 42.17 | - | - | 74 | -31.83 | 0 | 100 | H |
| * 4.88934 | 35.8 | PKFH | 34 | -27.5 | 0 | 42.3 | - | - | 74 | -31.7 | 0 | 100 | V |
| * 7.3178 | 34.07 | PKFH | 35.7 | -24.6 | 0 | 45.17 | - | - | 74 | -28.83 | 0 | 100 | H |
| * 7.32038 | 34.47 | PKFH | 35.7 | -24.5 | 0 | 45.67 | - | - | 74 | -28.33 | 0 | 100 | V |
| 9.75706 | 31.72 | PKFH | 37.1 | -20.9 | 0 | 47.92 | - | - | 74 | -26.08 | 0 | 100 | H |
| 9.76913 | 30.97 | PKFH | 37.1 | -21 | 0 | 47.07 | - | - | 74 | -26.93 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

78 CHANNEL RESULTS



HORIZONTAL



VERTICAL

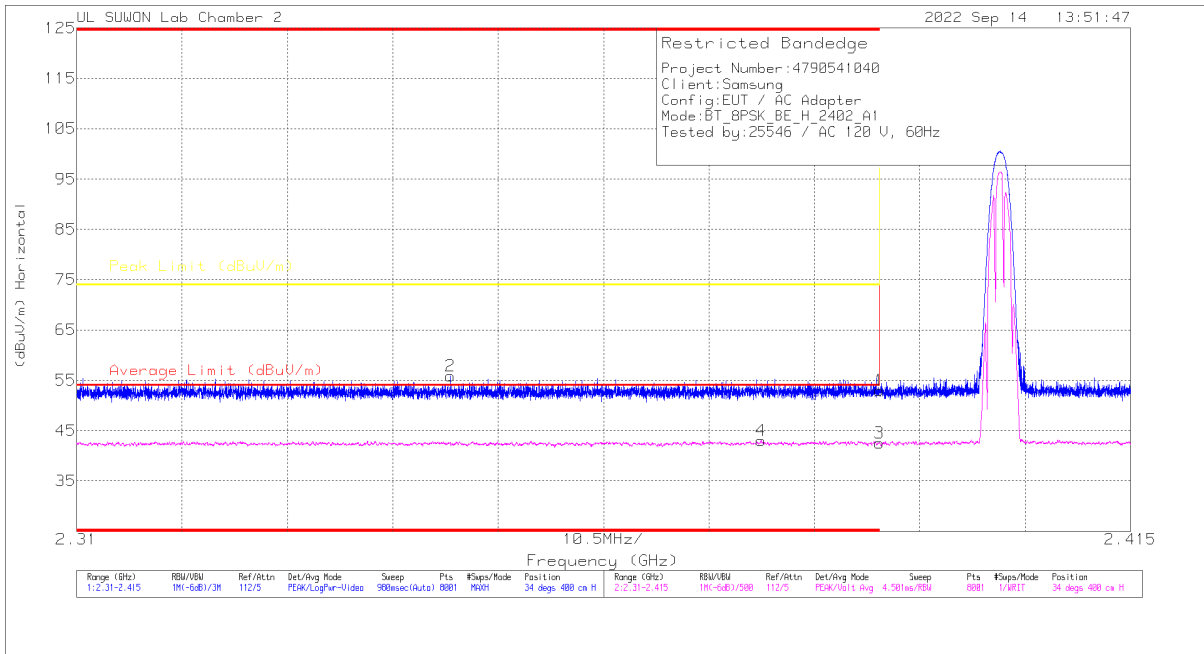
RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872 4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.95233 | 34.79 | PKFH | 34 | -27 | 0 | 41.79 | - | - | 74 | -32.21 | 0 | 100 | H |
| * 4.96034 | 35.57 | PKFH | 34 | -27 | 0 | 42.57 | - | - | 74 | -31.43 | 0 | 100 | V |
| * 7.43588 | 33.89 | PKFH | 35.7 | -23.7 | 0 | 45.89 | - | - | 74 | -28.11 | 0 | 100 | H |
| * 7.45056 | 33.4 | PKFH | 35.7 | -23.8 | 0 | 45.3 | - | - | 74 | -28.7 | 0 | 100 | V |
| 9.92003 | 31.34 | PKFH | 37.3 | -21.1 | 0 | 47.54 | - | - | 74 | -26.46 | 0 | 100 | H |
| 9.91966 | 30.9 | PKFH | 37.3 | -21.1 | 0 | 47.1 | - | - | 74 | -26.9 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

**- ANT2
 BANDEDGE (0 CHANNEL)**

HORIZONTAL RESULT

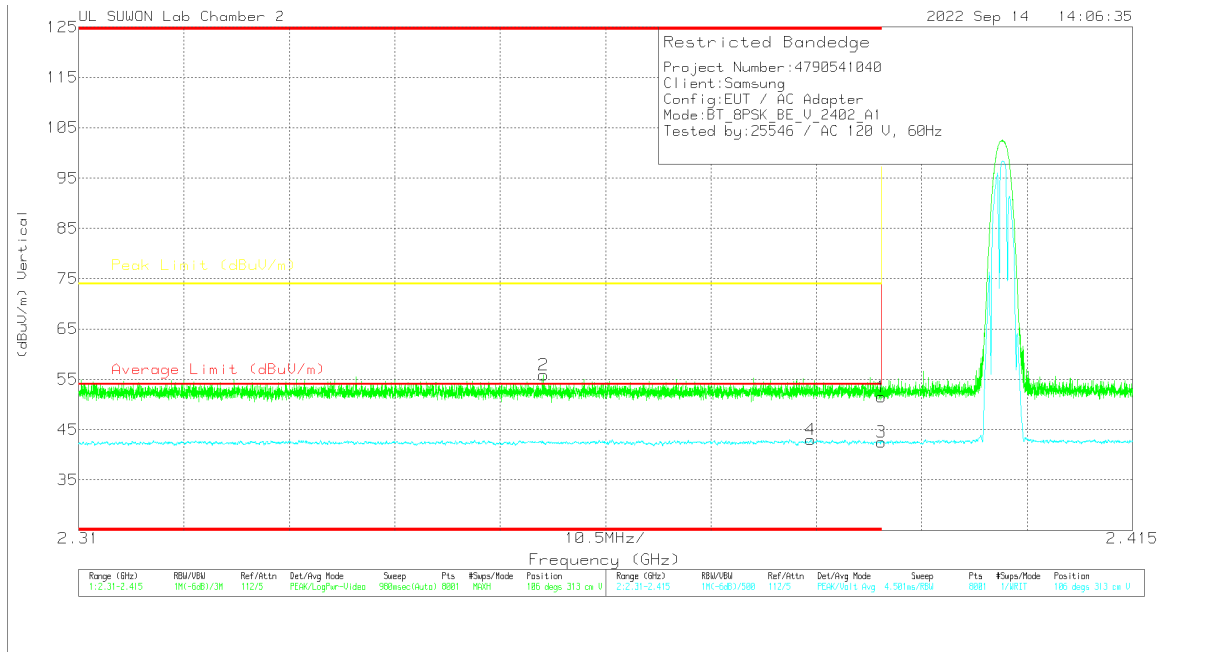


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[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 | 40.98 | Pk | 31.7 | -19.7 | 52.98 | - | - | 74 | -21.02 | 34 | 400 | H |
| 2 | * 2.34722 | 43.92 | Pk | 31.6 | -19.6 | 55.92 | - | - | 74 | -18.08 | 34 | 400 | H |
| 3 | * 2.39 | 30.55 | VA1T | 31.7 | -19.7 | 42.55 | 54 | -11.45 | - | - | 34 | 400 | H |
| 4 | * 2.37821 | 30.87 | VA1T | 31.7 | -19.5 | 43.07 | 54 | -10.93 | - | - | 34 | 400 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

VERTICAL RESULT



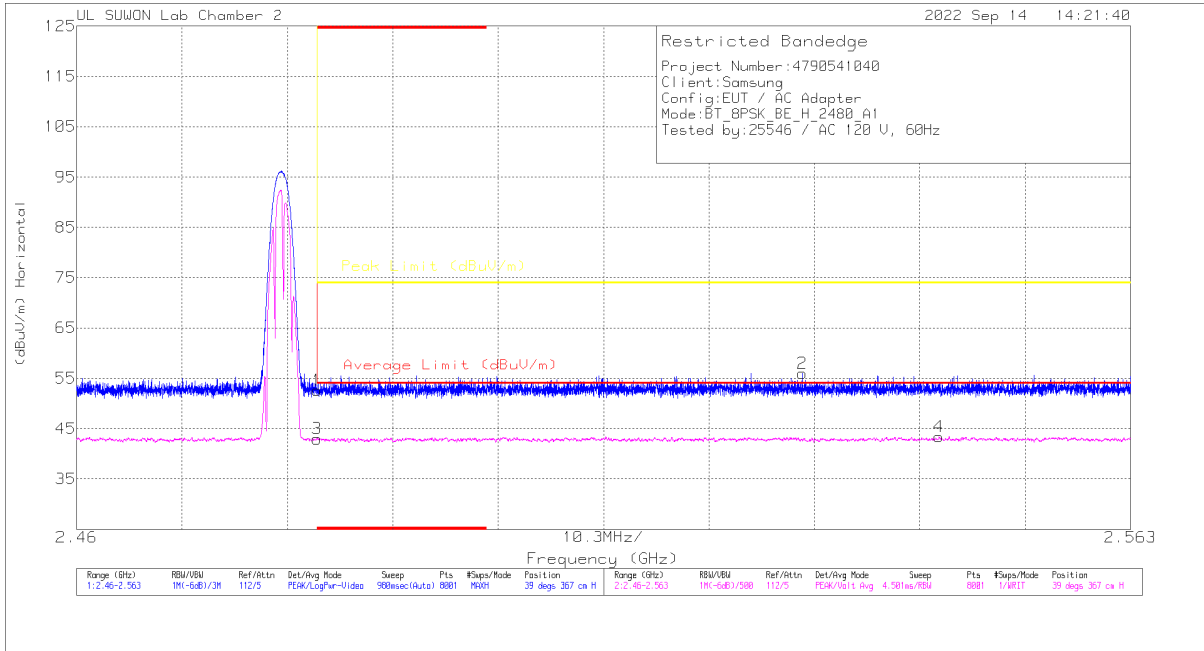
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[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 | 39.48 | Pk | 31.7 | -19.7 | 51.48 | - | - | 74 | -22.52 | 106 | 313 | V |
| 2 | * 2.35632 | 43.81 | Pk | 31.6 | -19.6 | 55.81 | - | - | 74 | -18.19 | 106 | 313 | V |
| 3 | * 2.39 | 30.58 | VA1T | 31.7 | -19.7 | 42.58 | 54 | -11.42 | - | - | 106 | 313 | V |
| 4 | * 2.38295 | 30.94 | VA1T | 31.7 | -19.6 | 43.04 | 54 | -10.96 | - | - | 106 | 313 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (78 CHANNEL)

HORIZONTAL RESULT

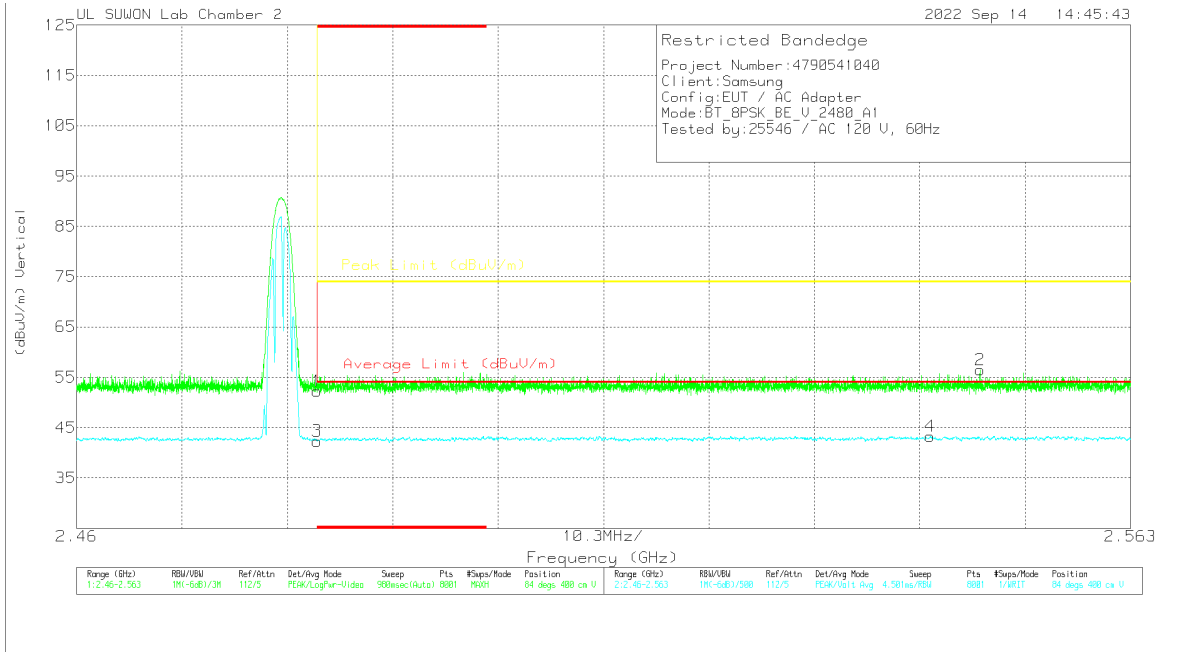


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 40.33 | Pk | 31.9 | -19.6 | 52.63 | - | - | 74 | -21.37 | 39 | 367 | H |
| 2 | 2.5309 | 43.49 | Pk | 31.9 | -19.4 | 55.99 | - | - | 74 | -18.01 | 39 | 367 | H |
| 3 | * 2.48351 | 30.67 | VA1T | 31.9 | -19.6 | 42.97 | 54 | -11.03 | - | - | 39 | 367 | H |
| 4 | 2.54428 | 30.87 | VA1T | 32 | -19.5 | 43.37 | 54 | -10.63 | - | - | 39 | 367 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



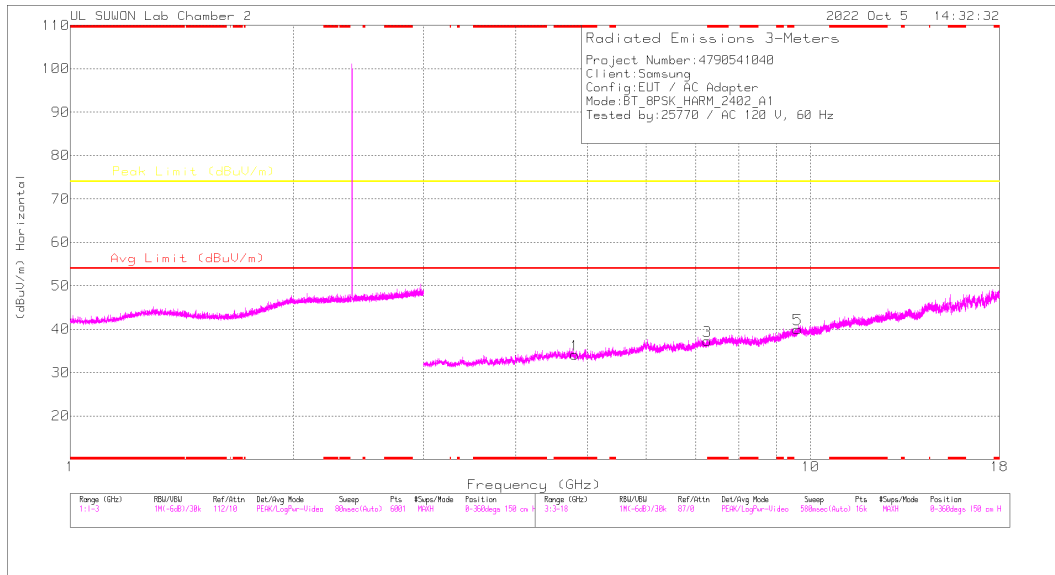
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.48351 | 39.98 | PK | 31.9 | -19.6 | 52.28 | - | - | 74 | -21.72 | 84 | 400 | V |
| 2 | 2.54828 | 44.02 | PK | 32 | -19.5 | 56.52 | - | - | 74 | -17.48 | 84 | 400 | V |
| 3 | * 2.48351 | 30.04 | VA1T | 31.9 | -19.6 | 42.34 | 54 | -11.66 | - | - | 84 | 400 | V |
| 4 | 2.54343 | 30.81 | VA1T | 32 | -19.5 | 43.31 | 54 | -10.69 | - | - | 84 | 400 | V |

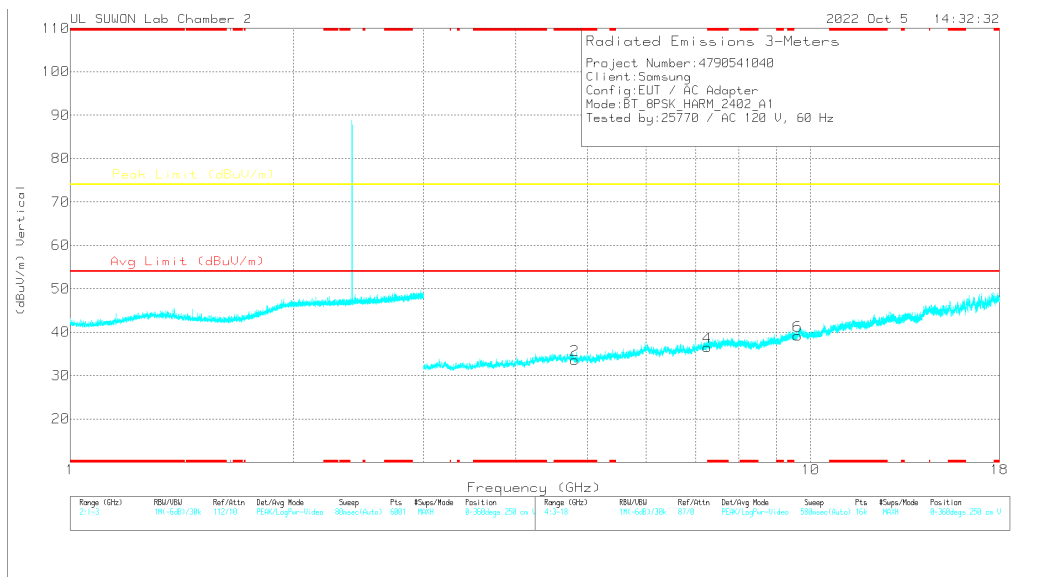
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



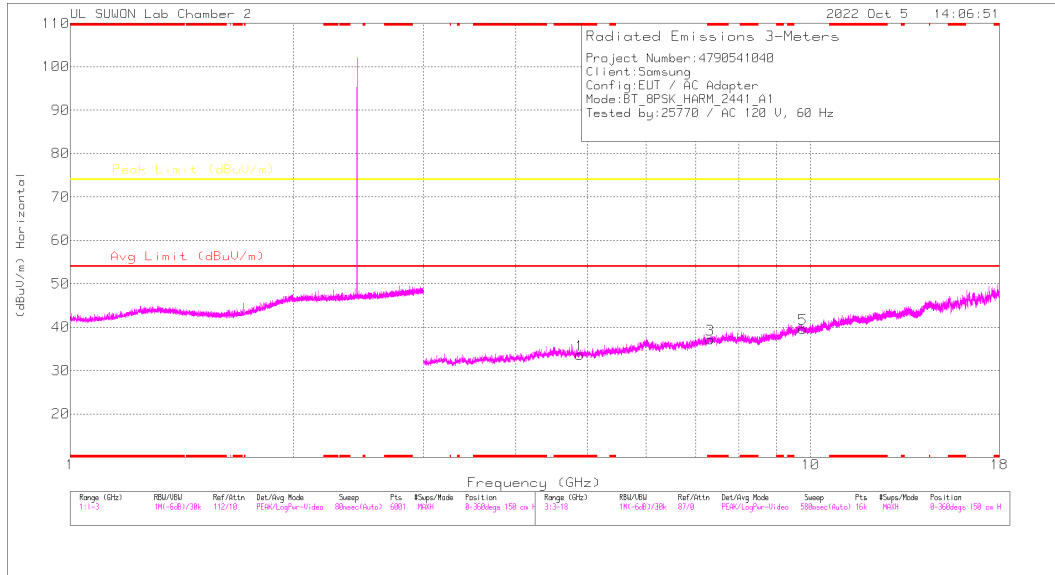
VERTICAL

RADIATED EMISSIONS

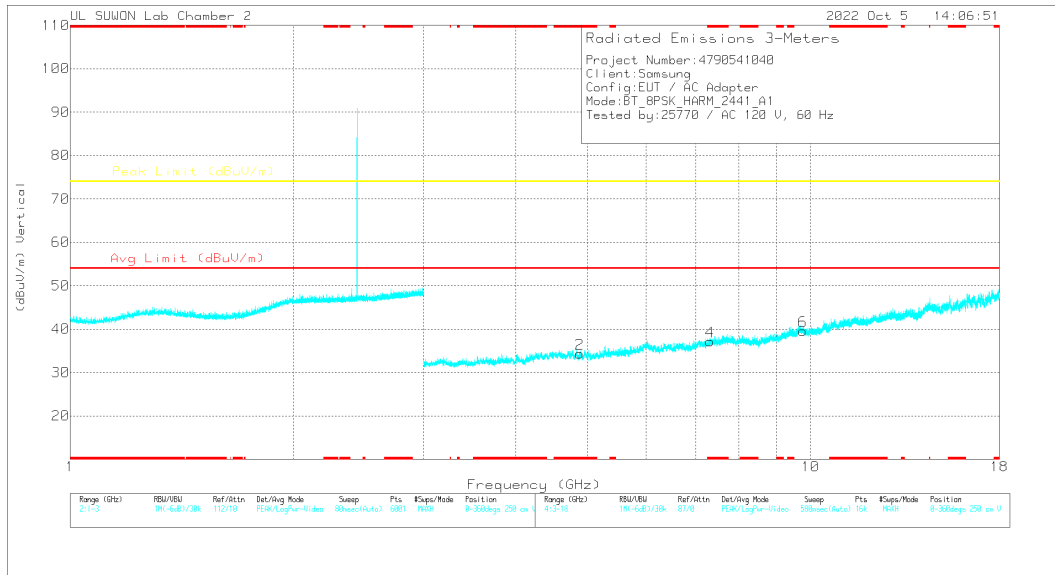
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872 4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.79995 | 36.11 | PKFH | 34 | -27.7 | 0 | 42.41 | - | - | 74 | -31.59 | 0 | 100 | H |
| * 4.80351 | 36.14 | PKFH | 34 | -27.7 | 0 | 42.44 | - | - | 74 | -31.56 | 0 | 100 | V |
| * 7.25372 | 34.26 | PKFH | 35.7 | -25.2 | 0 | 44.76 | - | - | 74 | -29.24 | 0 | 100 | H |
| * 7.25103 | 34.13 | PKFH | 35.7 | -25.2 | 0 | 44.63 | - | - | 74 | -29.37 | 0 | 100 | V |
| 9.60095 | 32.26 | PKFH | 36.9 | -21.4 | 0 | 47.76 | - | - | 74 | -26.24 | 0 | 100 | H |
| 9.61773 | 32.24 | PKFH | 36.9 | -21.1 | 0 | 48.04 | - | - | 74 | -25.96 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

39 CHANNEL RESULTS



HORIZONTAL



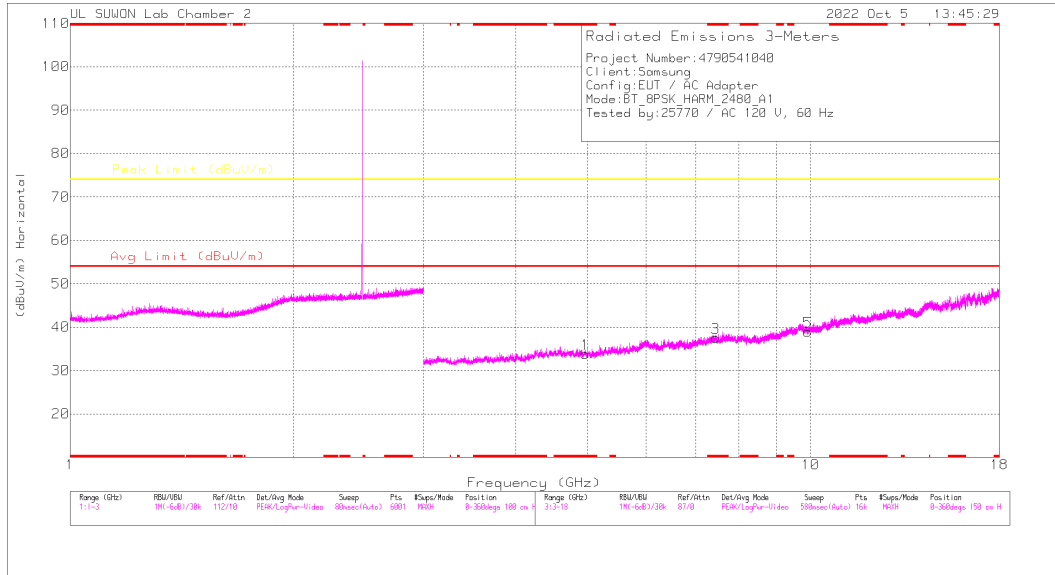
VERTICAL

RADIATED EMISSIONS

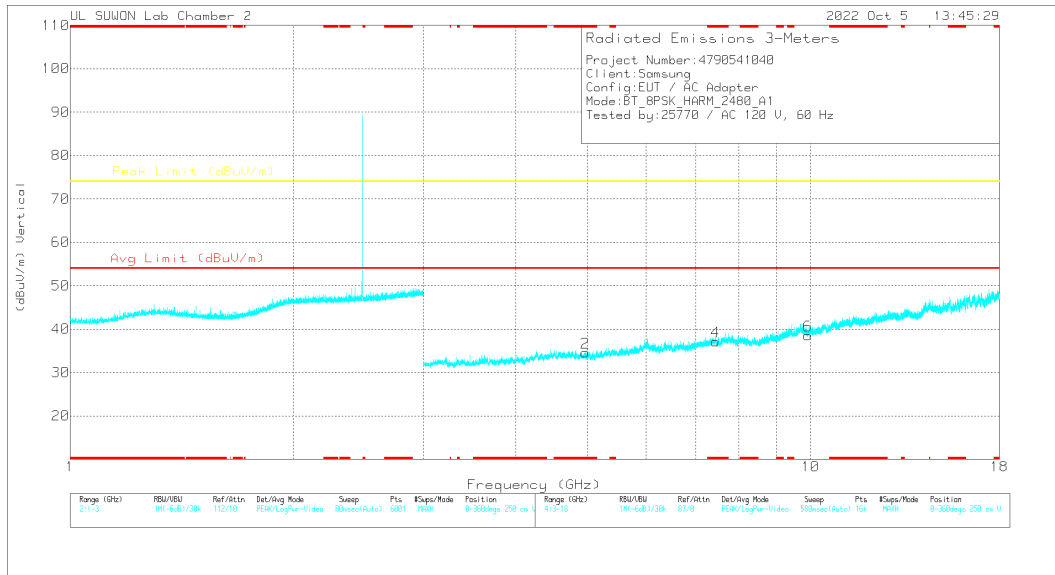
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.89094 | 36.82 | PKFH | 34 | -27.5 | 0 | 43.32 | - | - | 74 | -30.68 | 0 | 100 | H |
| * 4.87822 | 35.47 | PKFH | 34 | -27.7 | 0 | 41.77 | - | - | 74 | -32.23 | 0 | 100 | V |
| * 7.3275 | 34.02 | PKFH | 35.7 | -24.4 | 0 | 45.32 | - | - | 74 | -28.68 | 0 | 100 | H |
| * 7.32511 | 34.24 | PKFH | 35.7 | -24.4 | 0 | 45.54 | - | - | 74 | -28.46 | 0 | 100 | V |
| 9.76763 | 31.82 | PKFH | 37.1 | -21 | 0 | 47.92 | - | - | 74 | -26.08 | 0 | 100 | H |
| 9.77421 | 31.24 | PKFH | 37.1 | -21.1 | 0 | 47.24 | - | - | 74 | -26.76 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

78 CHANNEL RESULTS



HORIZONTAL



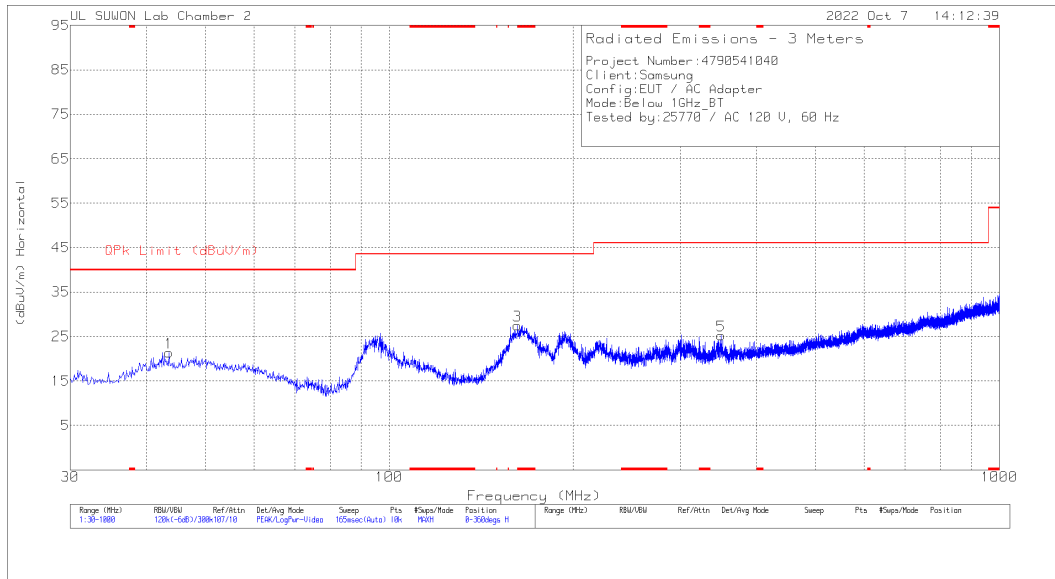
VERTICAL

RADIATED EMISSIONS

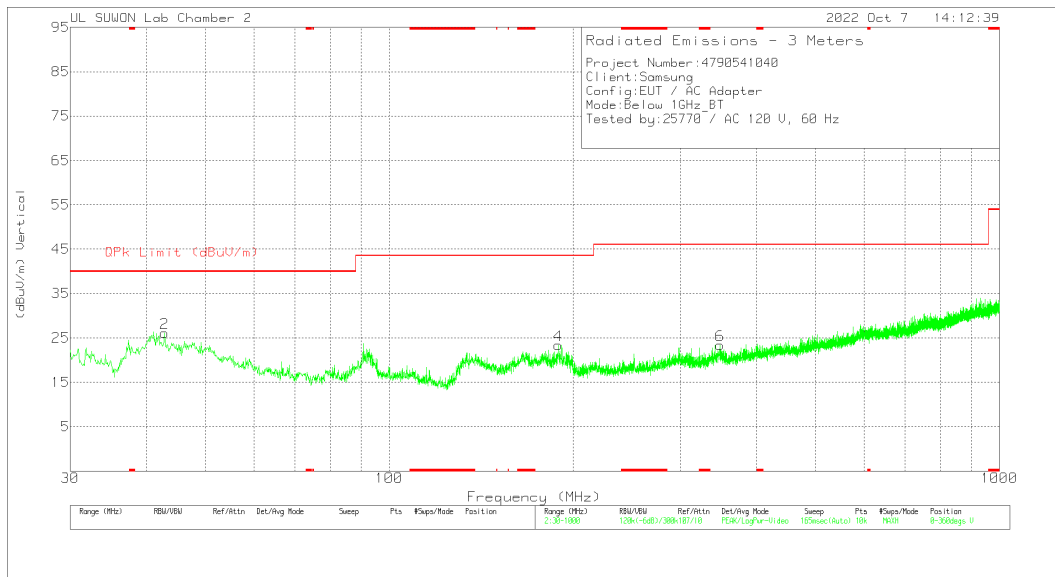
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872 4 | 3GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.96859 | 35.48 | PKFH | 34 | -27 | 0 | 42.48 | - | - | 74 | -31.52 | 0 | 100 | H |
| * 4.95104 | 34.42 | PKFH | 34 | -27.1 | 0 | 41.32 | - | - | 74 | -32.68 | 0 | 100 | V |
| * 7.4323 | 33.88 | PKFH | 35.7 | -23.7 | 0 | 45.88 | - | - | 74 | -28.12 | 0 | 100 | H |
| * 7.44177 | 33.41 | PKFH | 35.7 | -23.7 | 0 | 45.41 | - | - | 74 | -28.59 | 0 | 100 | V |
| 9.92333 | 30.96 | PKFH | 37.3 | -21 | 0 | 47.26 | - | - | 74 | -26.74 | 0 | 100 | H |
| 9.91966 | 30.84 | PKFH | 37.3 | -21.1 | 0 | 47.04 | - | - | 74 | -26.96 | 0 | 100 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

10.2. WORST CASE BELOW 1 GHZ SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

BEOLOW 1GHZ

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 43.58 | 33.03 | Pk | 19.6 | -31.3 | 21.33 | 40 | -18.67 | 0-360 | 100 | H |
| 2 | 42.804 | 37.99 | Pk | 19.5 | -31.4 | 26.09 | 40 | -13.91 | 0-360 | 100 | V |
| 3 | * 162.308 | 43.09 | Pk | 14.4 | -30 | 27.49 | 43.52 | -16.03 | 0-360 | 100 | H |
| 4 | 189.274 | 36.89 | Pk | 16.3 | -29.8 | 23.39 | 43.52 | -20.13 | 0-360 | 100 | V |
| 5 | 349.712 | 33.22 | Pk | 20.8 | -28.8 | 25.22 | 46.02 | -20.8 | 0-360 | 100 | H |
| 6 | 348.063 | 31.36 | Pk | 20.7 | -28.7 | 23.36 | 46.02 | -22.66 | 0-360 | 100 | V |

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

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

| 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 C63.4.

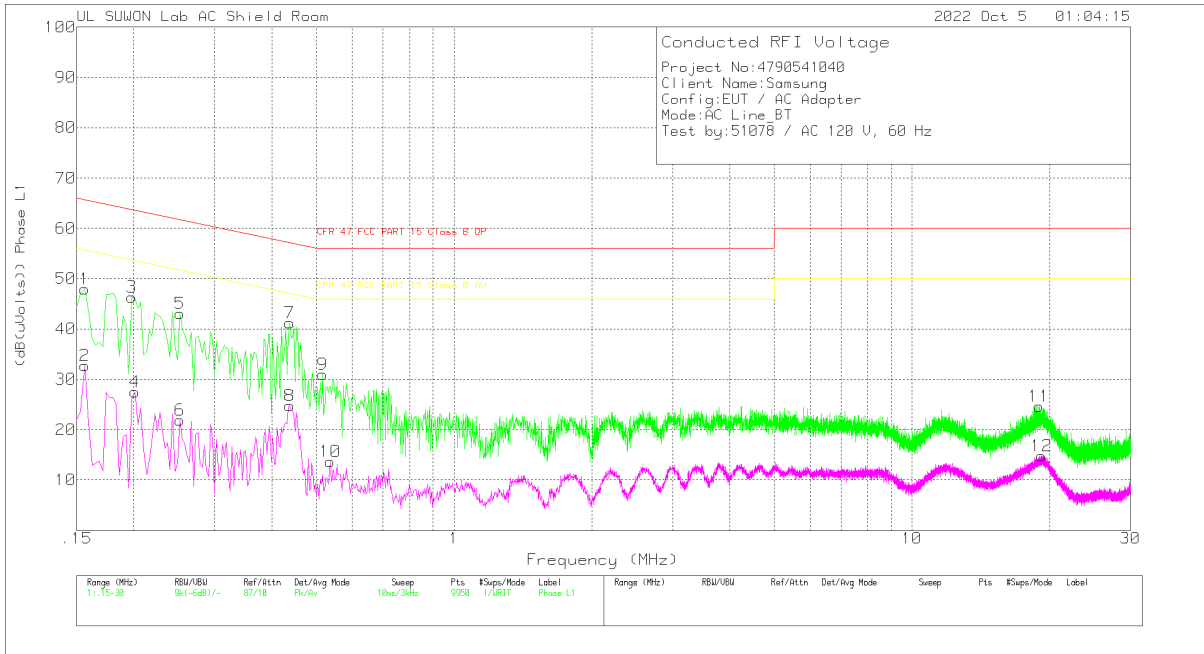
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1.1. AC Power Line

LINE 1 RESULTS



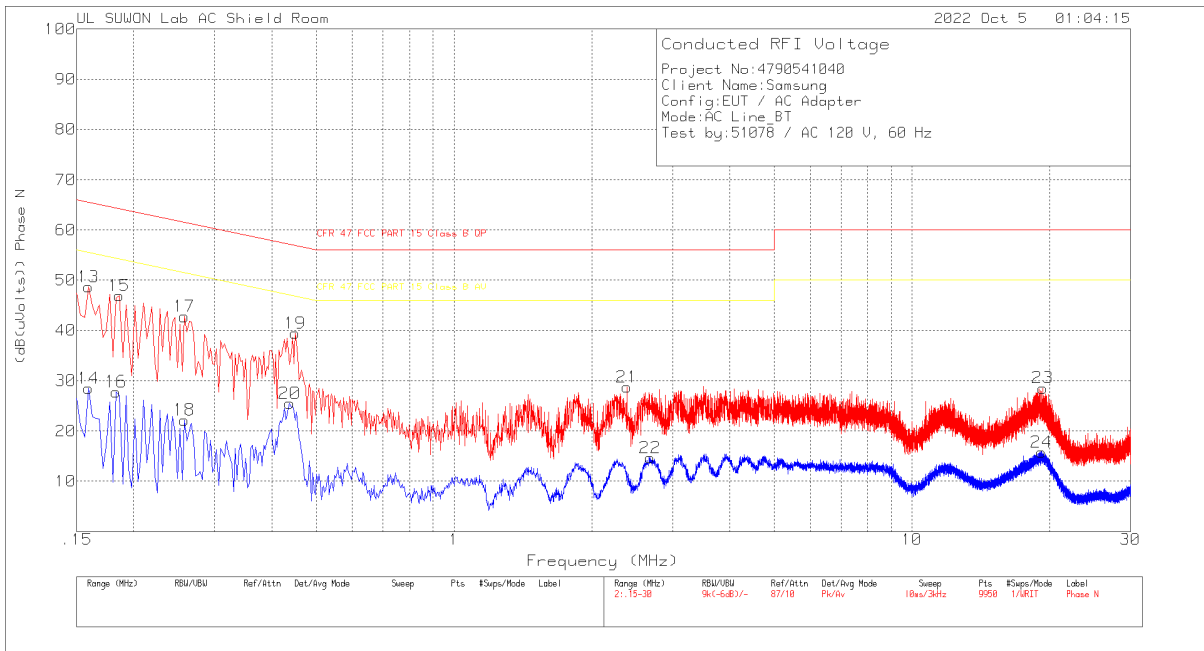
Trace Markers

Range 1: Phase L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|------------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 1 | .156 | 38.03 | Pk | 9.8 | .1 | 47.93 | 65.67 | -17.74 | - | - |
| 2 | .156 | 22.81 | Av | 9.8 | .1 | 32.71 | - | - | 55.67 | -22.96 |
| 3 | .198 | 36.38 | Pk | 9.8 | .2 | 46.38 | 63.69 | -17.31 | - | - |
| 4 | .201 | 17.49 | Av | 9.8 | .2 | 27.49 | - | - | 53.57 | -26.08 |
| 5 | .252 | 33.33 | Pk | 9.6 | .2 | 43.13 | 61.69 | -18.56 | - | - |
| 6 | .252 | 12.1 | Av | 9.6 | .2 | 21.9 | - | - | 51.69 | -29.79 |
| 7 | .438 | 31.17 | Pk | 9.8 | .2 | 41.17 | 57.1 | -15.93 | - | - |
| 8 | .438 | 14.71 | Av | 9.8 | .2 | 24.71 | - | - | 47.1 | -22.39 |
| 9 | .516 | 20.87 | Pk | 9.9 | .2 | 30.97 | 56 | -25.03 | - | - |
| 10 | .537 | 3.62 | Av | 9.9 | .2 | 13.72 | - | - | 46 | -32.28 |
| 11 | 18.921 | 14.08 | Pk | 10.1 | .4 | 24.58 | 60 | -35.42 | - | - |
| 12 | 19.203 | 4.25 | Av | 10.1 | .4 | 14.75 | - | - | 50 | -35.25 |

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_N[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|-----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 13 | .159 | 38.73 | Pk | 9.8 | .1 | 48.63 | 65.52 | -16.89 | - | - |
| 14 | .159 | 18.64 | Av | 9.8 | .1 | 28.54 | - | - | 55.52 | -26.98 |
| 15 | .186 | 36.81 | Pk | 9.9 | .2 | 46.91 | 64.21 | -17.3 | - | - |
| 16 | .183 | 17.71 | Av | 9.9 | .2 | 27.81 | - | - | 54.35 | -26.54 |
| 17 | .258 | 32.97 | Pk | 9.6 | .2 | 42.77 | 61.5 | -18.73 | - | - |
| 18 | .258 | 12.4 | Av | 9.6 | .2 | 22.2 | - | - | 51.5 | -29.3 |
| 19 | .45 | 29.39 | Pk | 9.9 | .2 | 39.49 | 56.88 | -17.39 | - | - |
| 20 | .438 | 15.36 | Av | 9.9 | .2 | 25.46 | - | - | 47.1 | -21.64 |
| 21 | 2.385 | 18.76 | Pk | 9.7 | .3 | 28.76 | 56 | -27.24 | - | - |
| 22 | 2.682 | 4.61 | Av | 9.7 | .3 | 14.61 | - | - | 46 | -31.39 |
| 23 | 19.299 | 17.96 | Pk | 10.2 | .4 | 28.56 | 60 | -31.44 | - | - |
| 24 | 19.173 | 5.23 | Av | 10.2 | .4 | 15.83 | - | - | 50 | -34.17 |

Pk - Peak detector
 Av - Average detection

END OF TEST REPORT