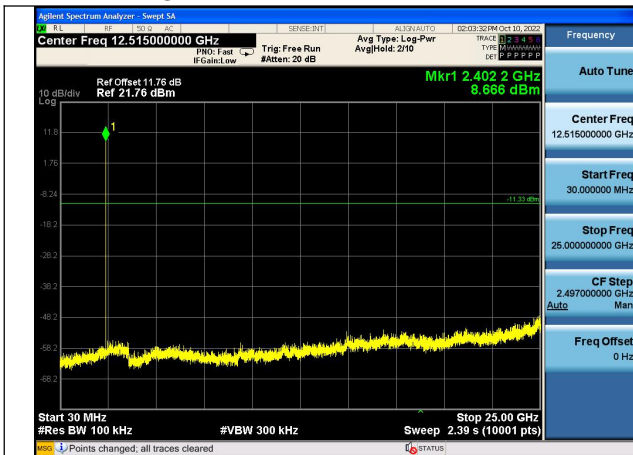
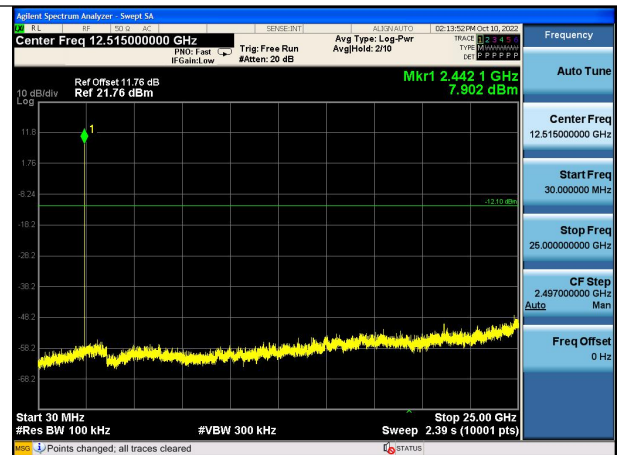


6 Conducted Out of band emission measurement

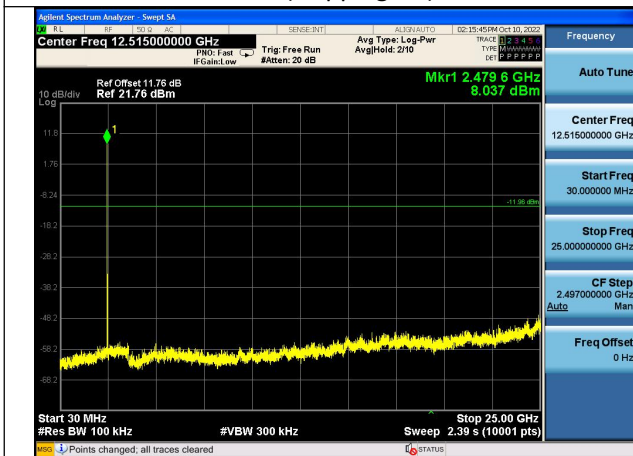
Test Mode: GFSK



CH0(Hopping off)

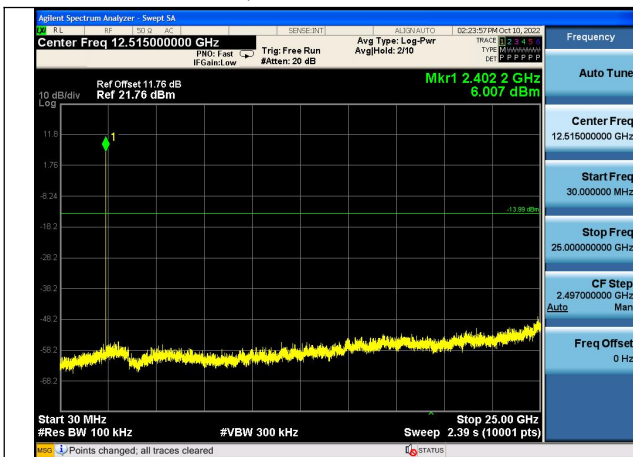


CH39(Hopping off)

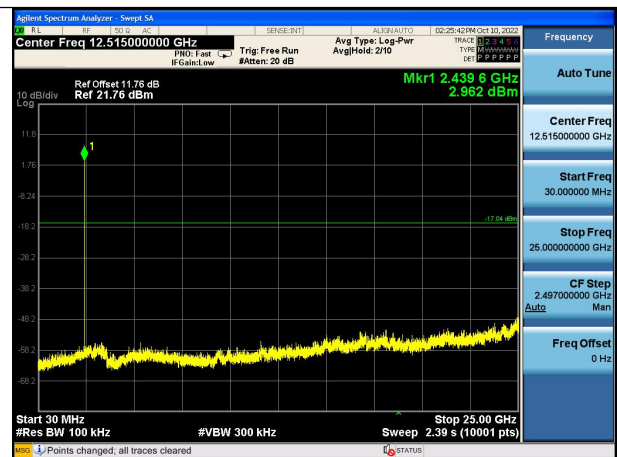


CH78(Hopping off)

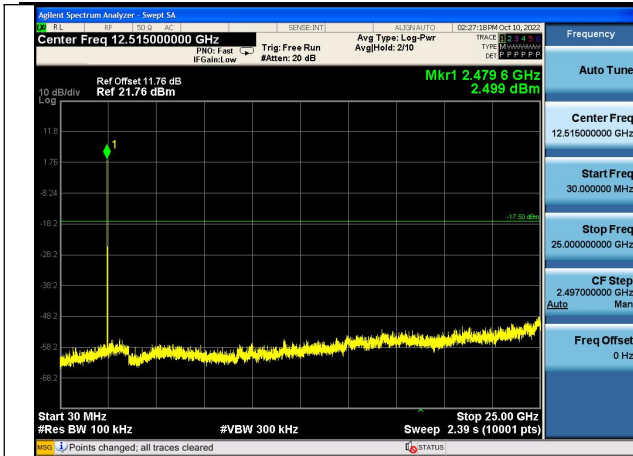
Test Mode: $\pi/4$ DQPSK



CH0(Hopping off)

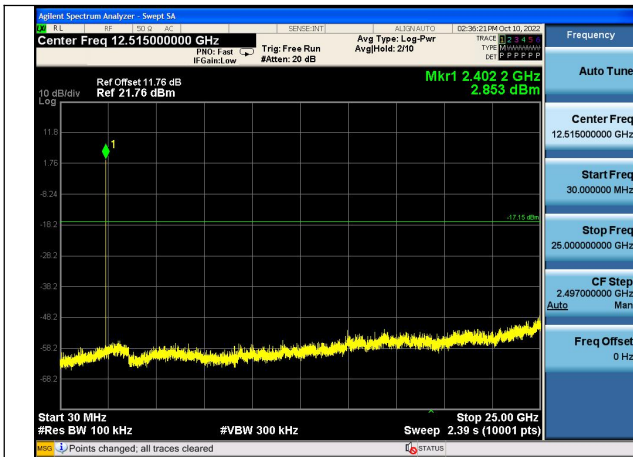


CH39(Hopping off)

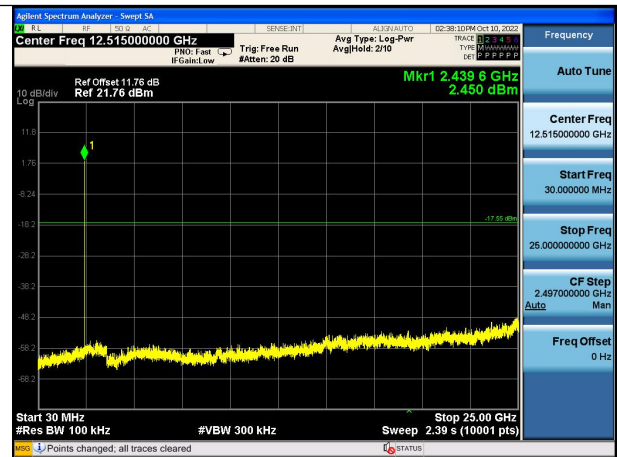


CH78(Hopping off)

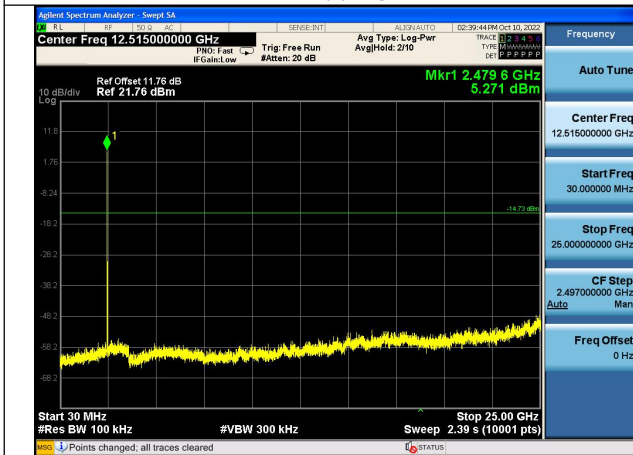
Test Mode: 8DPSK



CH0(Hopping off)



CH39(Hopping off)



CH78(Hopping off)

7 Band Edge measurement

Test Mode: GFSK



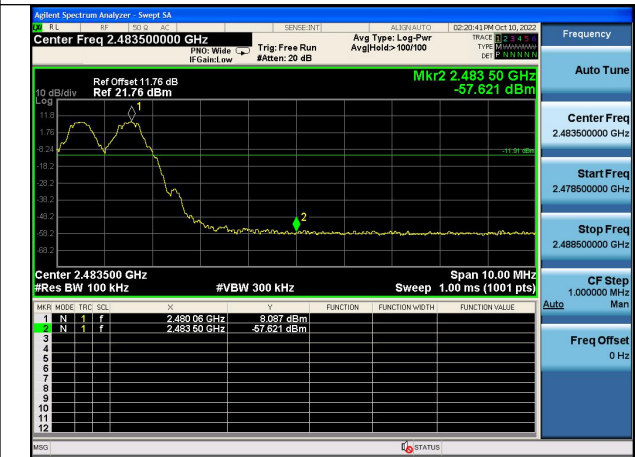
CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

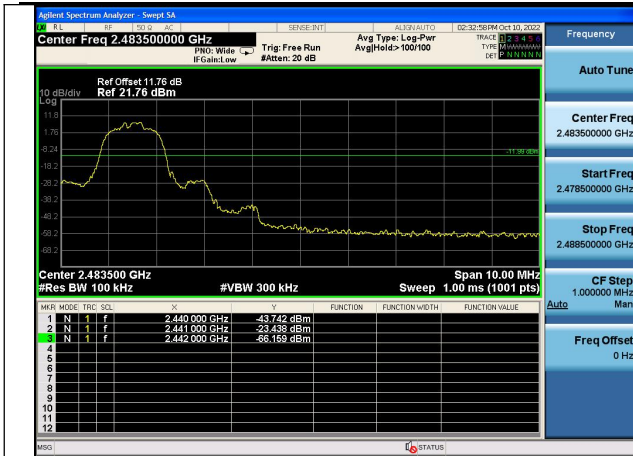
Test Mode: $\pi/4$ DQPSK



CH0(Hopping off)



CH0(Hopping on)

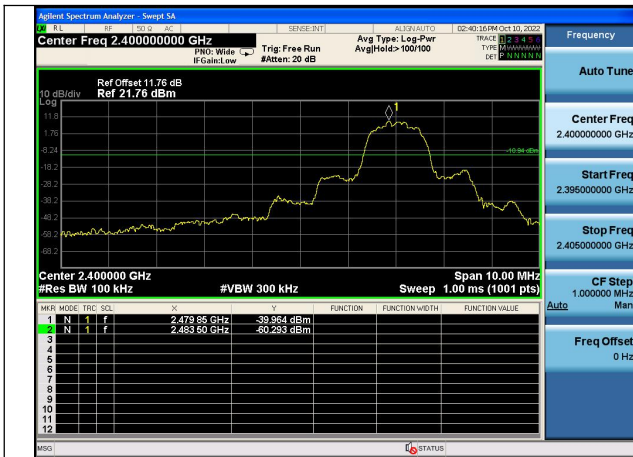


CH78(Hopping off)



CH78(Hopping on)

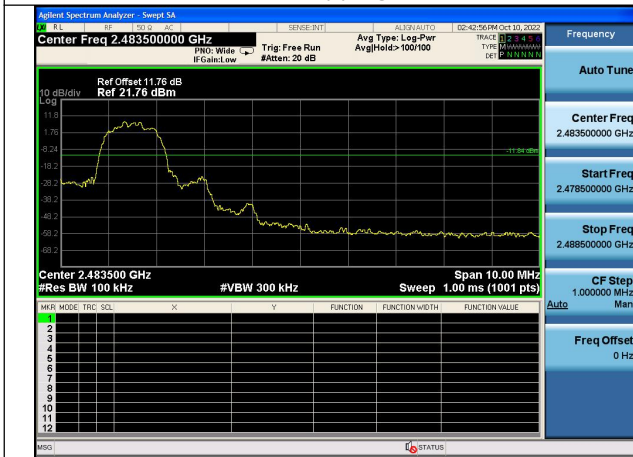
Test Mode: 8DPSK



CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

APPENDIX B – TEST DATA OF RADIATED EMISSION

Worst case(BT GFSK-DH5)

Radiated Emission Band Edge

The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

Measure Level = Reading Level + Cable loss + Antenna factor
Sample calculation: (89.30 dBuV/m) = (55.30 dB μ V) + (8.90 dB) + (25.10 dB), the corresponding frequency is 2402MHz.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Note: There were no emissions above 18GHz found within 20dB of the limit. Thus the test result was not reported according to §15.31 (o)

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Vertical

Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2402 | 94.78 | 60.78 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 43.11 | 9.11 | -30.89 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Horizontal

Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2402 | 92.43 | 58.43 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 41.42 | 7.42 | -32.58 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Vertical

Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2402 | 92.85 | 58.85 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 33.30 | -0.70 | -20.70 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK
Polarity: Horizontal
Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2402 | 90.50 | 56.50 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 31.37 | -2.63 | -22.63 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: GFSK
Polarity: Vertical
Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2480 | 89.30 | 55.30 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 42.19 | 8.19 | -31.81 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: GFSK
Polarity: Horizontal
Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2480 | 86.58 | 52.58 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 41.64 | 7.64 | -32.36 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: GFSK
Polarity: Vertical
Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2480 | 87.15 | 53.15 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 34.02 | 0.02 | -19.98 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2480
 Channel No.:78
 Test Mode: GFSK
 Polarity: Horizontal
 Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB/m) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1 | 2480 | 84.44 | 50.44 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 33.54 | -0.46 | -20.46 | 54.00 | 8.90 | 25.10 |

Sample Calculations

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss. The measurement results are obtained as described below:

Below 1GHz:

QuasiPeak=Reading Value + A_{Rpl}

Above 1GHz:

MaxPeak=Reading MaxPeak + A_{Rpl}

OR

Average=Reading Average + A_{Rpl}

Sample calculation: (30.73 dB μ V/m) = (54.53 dB μ V) + (-23.80 dB/m), the corresponding frequency is 30.097MHz.

The worst case attitude: The mobile lay down.

Spurious Radiated Emissions below 30MHz:

There were no emissions from 9 kHz to 30MHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o).

For GFSK
Channel No.:0

| Frequency (MHz) | Result (dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|-----------------|-----------------|-----------|---------------|----------|----------------|-------------|
| 50.224500 | 22.44 | -17.5 | 39.94 | Vertical | 40.00 | 17.56 |
| 96.542000 | 27.07 | -19.8 | 46.87 | Vertical | 43.50 | 16.43 |
| 98.336500 | 28.95 | -19.4 | 48.35 | Vertical | 43.50 | 14.55 |
| 195.724500 | 33.53 | -19.4 | 52.93 | Vertical | 43.50 | 9.97 |
| 530.326000 | 16.44 | -10.2 | 26.64 | Vertical | 46.00 | 29.56 |
| 937.532000 | 23.28 | -2.8 | 26.08 | Vertical | 46.00 | 22.72 |

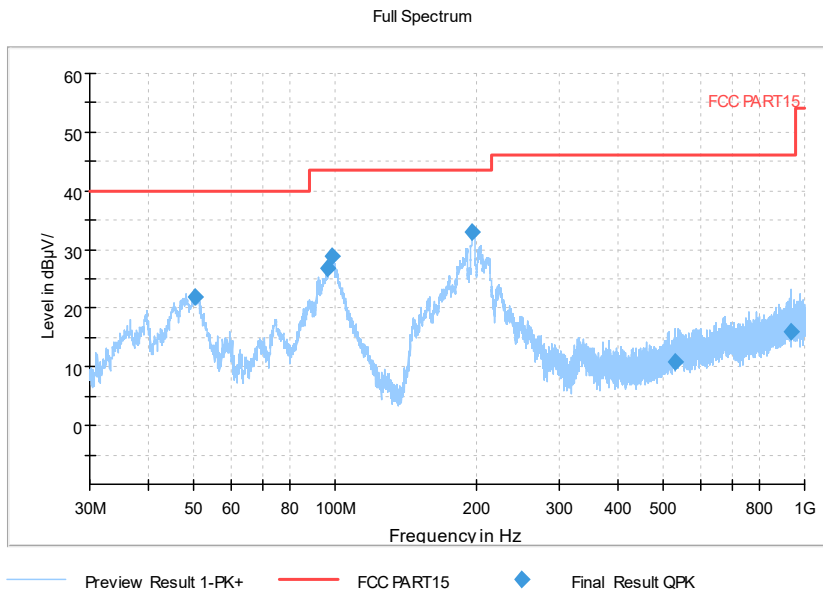
For GFSK
Channel No.:39

| Frequency (MHz) | Result (dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|-----------------|-----------------|-----------|---------------|----------|----------------|-------------|
| 47.799500 | 23.03 | -17.7 | 40.73 | Vertical | 40.00 | 16.97 |
| 96.396500 | 26.84 | -19.9 | 46.74 | Vertical | 43.50 | 16.66 |
| 98.191000 | 29.31 | -19.5 | 48.81 | Vertical | 43.50 | 14.19 |
| 195.288000 | 31.46 | -19.4 | 50.86 | Vertical | 43.50 | 12.04 |
| 541.578000 | 16.24 | -9.9 | 26.14 | Vertical | 46.00 | 29.76 |
| 927.541000 | 21.90 | -2.9 | 24.80 | Vertical | 46.00 | 24.10 |

For GFSK
Channel No.:78

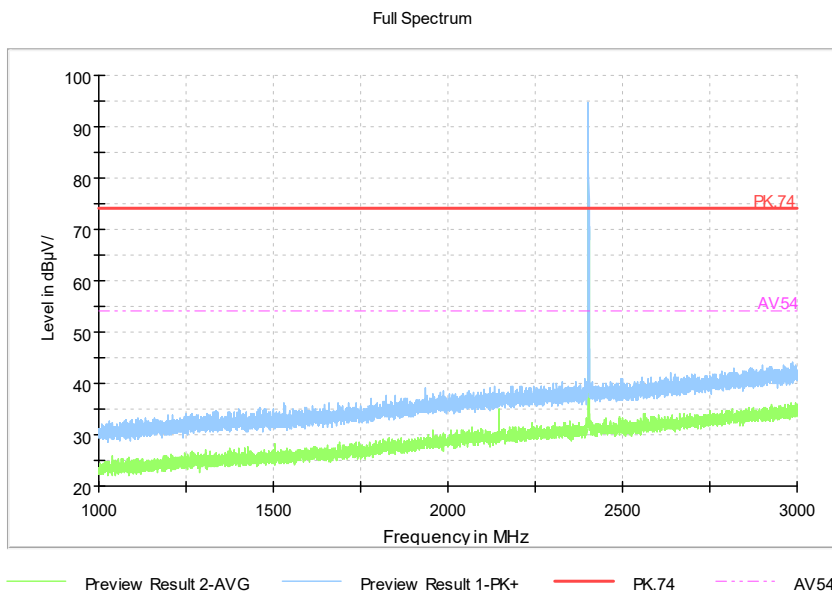
| Frequency (MHz) | Result (dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|-----------------|-----------------|-----------|---------------|----------|----------------|-------------|
| 47.751000 | 23.23 | -17.7 | 40.93 | Vertical | 40.00 | 16.77 |
| 96.542000 | 26.91 | -19.8 | 46.71 | Vertical | 43.50 | 16.59 |
| 99.306500 | 28.73 | -19.2 | 47.93 | Vertical | 43.50 | 14.77 |
| 198.101000 | 32.51 | -19.3 | 51.81 | Vertical | 43.50 | 10.99 |
| 534.254500 | 16.58 | -10.0 | 26.58 | Vertical | 46.00 | 29.42 |
| 939.326500 | 21.63 | -2.8 | 24.43 | Vertical | 46.00 | 24.37 |

Carrier frequency (MHz): 2402
Channel No.:0



Comment

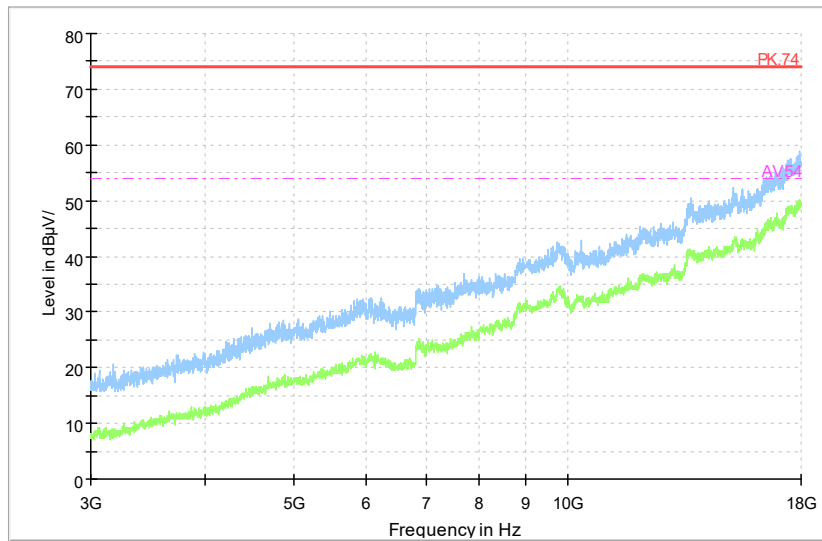
Frequency Range: 30MHz-1000MHz
Detector: QP mode
Modulation type: GFSK



Comment

Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK

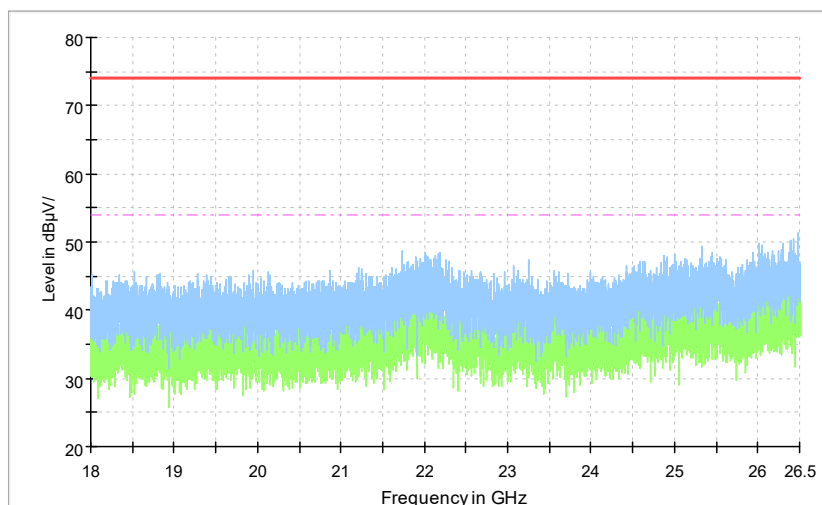
Full Spectrum



Comment

Frequency Range: 3GHz- 18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum

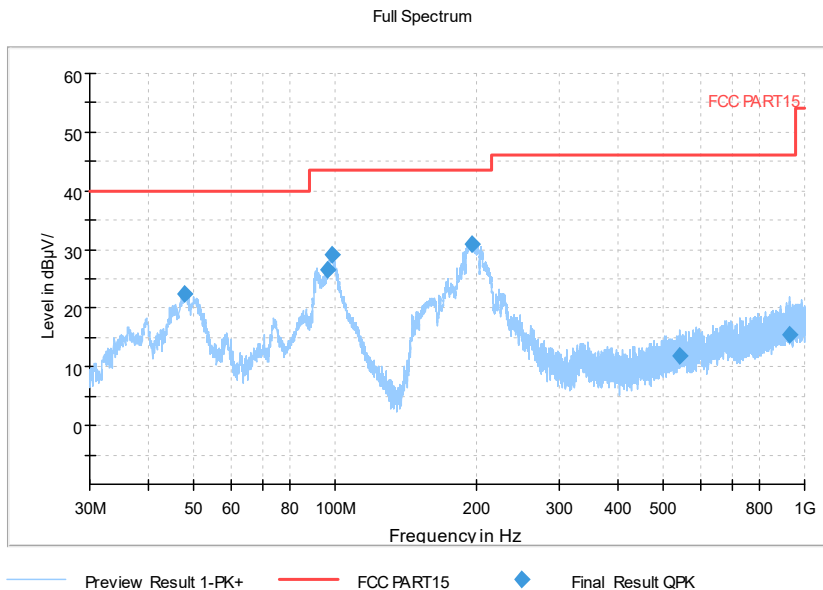


Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

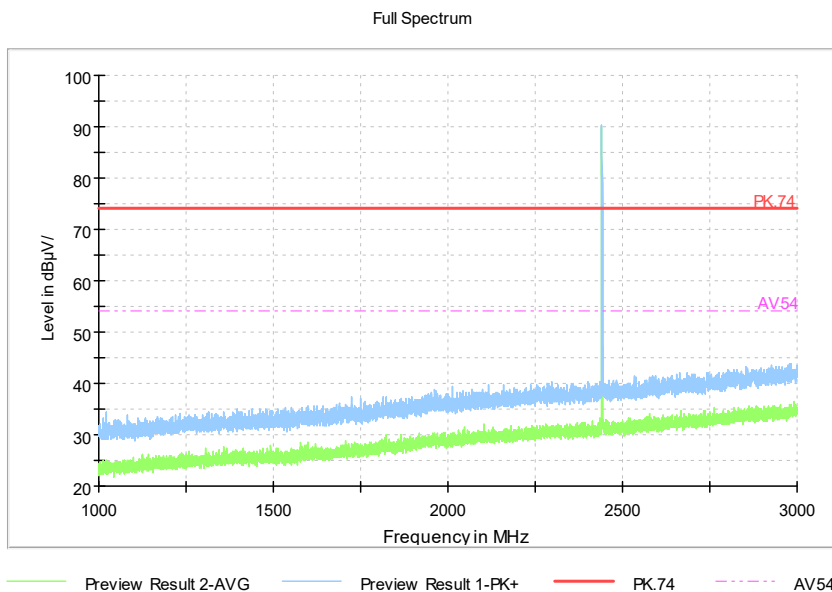
Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Carrier frequency (MHz): 2441
Channel No.:39



Comment

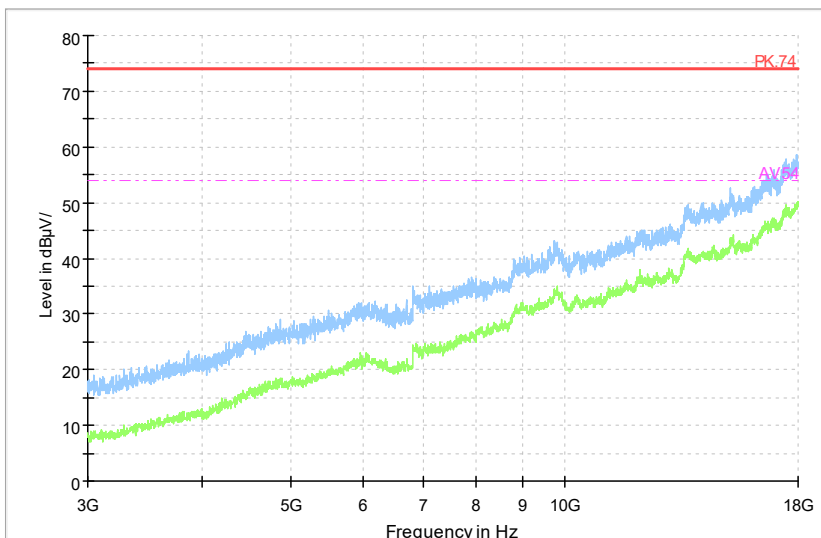
Frequency Range: 30MHz-1000MHz
 Detector: QP mode
 Modulation type: GFSK



Comment

Frequency Range: 1GHz-3GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK

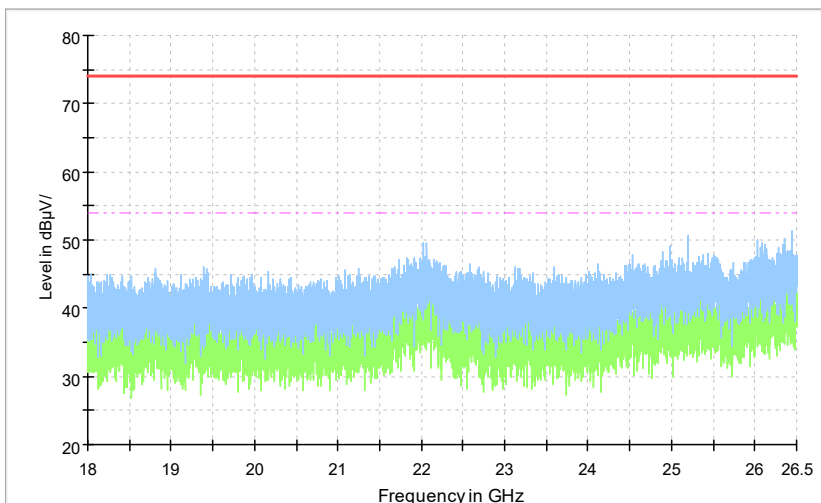
Full Spectrum



Comment

Frequency Range: 3GHz- 18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum

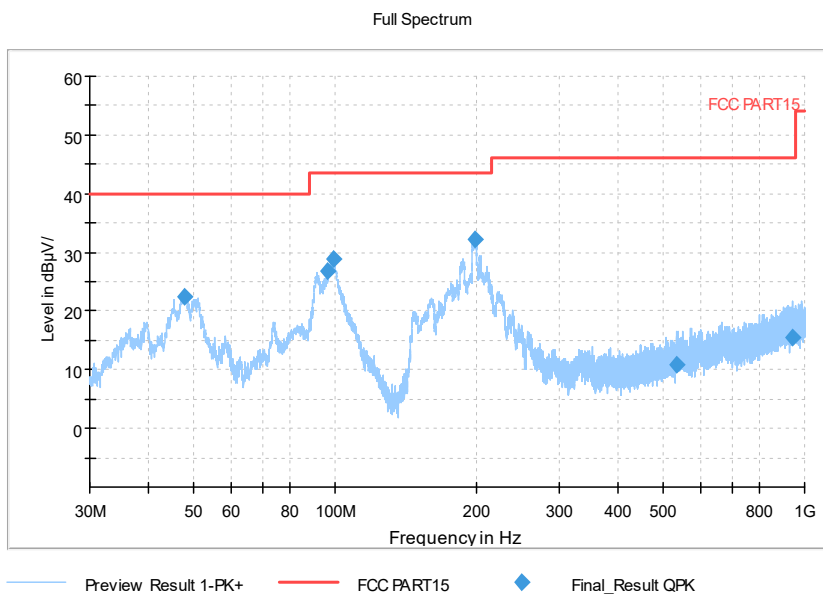


Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

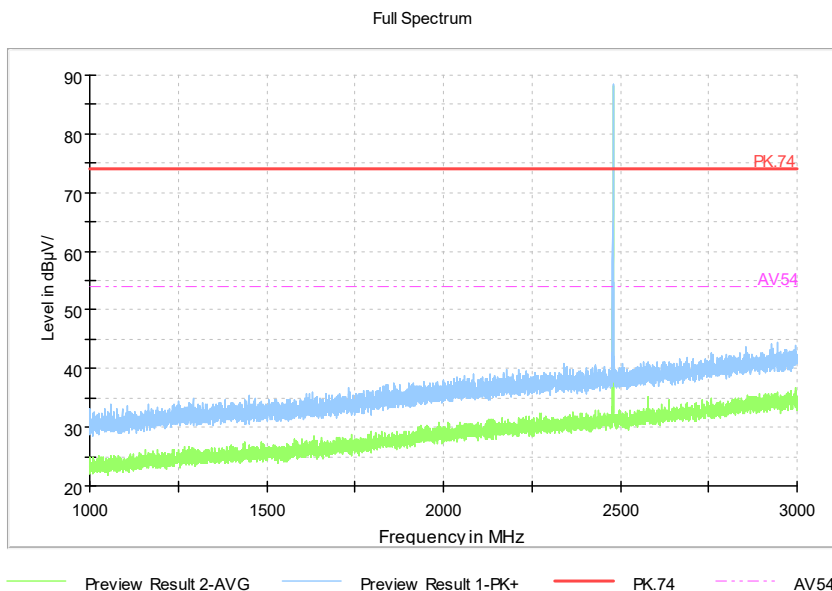
Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Carrier frequency (MHz): 2480
Channel No.:78



Comment

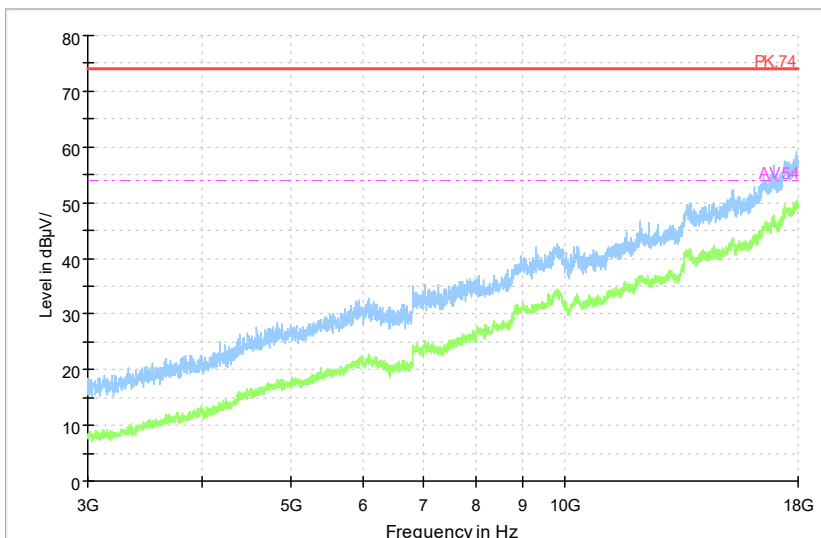
Frequency Range: 30MHz-1000MHz
Detector: QP mode
Modulation type: GFSK



Comment

Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum



Comment

Frequency Range: 3GHz- 18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum

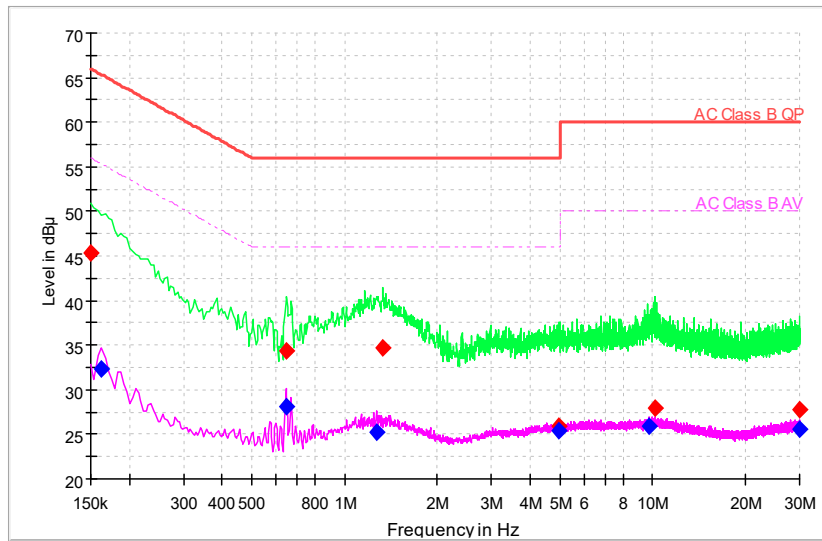


Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK

AC Power line Conducted Emission



— Preview Result 2-AVG — Preview Result 1-PK+ — AC Class B QP
- - - AC Class B AV ◆ Final_Result QPK ◆ Final_Result AVG

Comment

L+N Line

MEASUREMENT RESULT:

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) | Pmea QuasiPeak (dBµV) | Pmea Average (dBµV) |
|-----------------|------------------|----------------|--------------|-------------|------|------------|-----------------------|---------------------|
| 0.150000 | 45.39 | --- | 66.00 | 20.61 | L1 | 29.7 | 15.69 | --- |
| 0.162793 | --- | 32.34 | 55.32 | 22.98 | N | 29.7 | --- | 2.64 |
| 0.644657 | --- | 28.12 | 46.00 | 17.88 | N | 29.7 | --- | -1.58 |
| 0.648921 | 34.36 | --- | 56.00 | 21.64 | L1 | 29.7 | 4.66 | --- |
| 1.271507 | --- | 25.16 | 46.00 | 20.84 | N | 29.8 | --- | -4.64 |
| 1.331207 | 34.69 | --- | 56.00 | 21.31 | N | 29.8 | 4.89 | --- |
| 4.951586 | --- | 25.35 | 46.00 | 20.65 | L1 | 29.9 | --- | -4.55 |
| 4.985700 | 25.99 | --- | 56.00 | 30.01 | L1 | 29.9 | -3.91 | --- |
| 9.697736 | --- | 25.92 | 50.00 | 24.08 | N | 29.9 | --- | -3.98 |
| 10.149750 | 27.98 | --- | 60.00 | 32.02 | N | 29.9 | -1.92 | --- |
| 29.833693 | --- | 25.60 | 50.00 | 24.40 | L1 | 30.0 | --- | -4.40 |
| 30.000000 | 27.71 | --- | 60.00 | 32.29 | N | 30.0 | -2.29 | --- |

---End of Test Report---