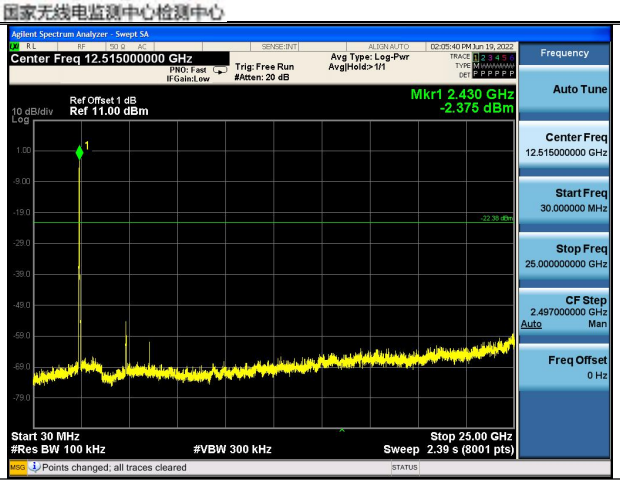
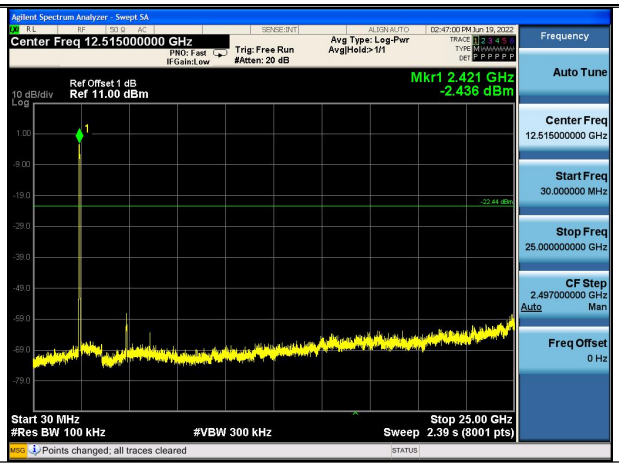
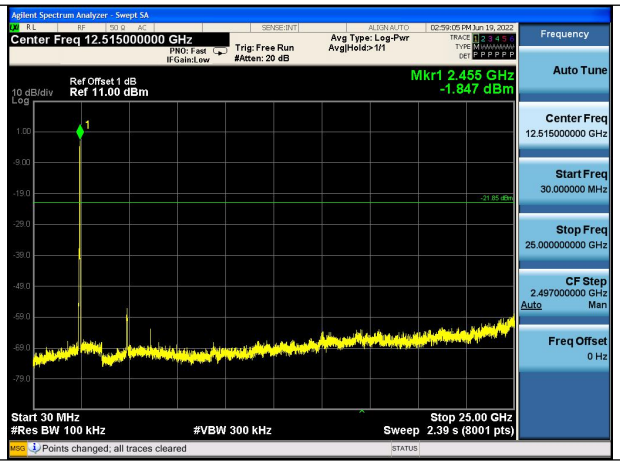



Test Mode:802.11n HT40 2422MHz Chain0




Test Mode:802.11n HT40 2437MHz Chain0




Test Mode:802.11n HT40 2452MHz Chain0

## Band edge measurement

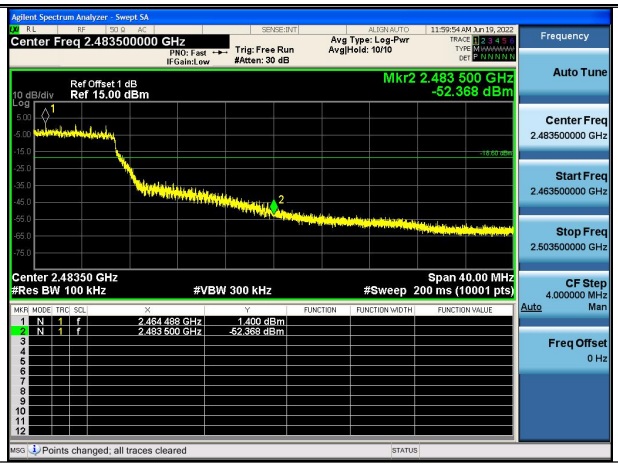
Test Mode: 802.11b


Test Mode:802.11b 2412MHz Chain0


Test Mode:802.11b 2462MHz Chain0

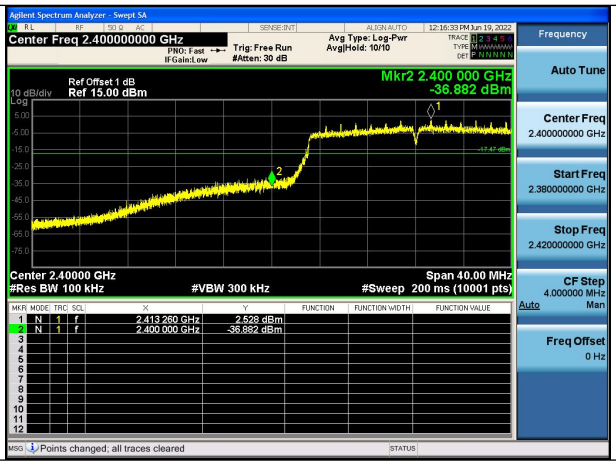
Test Mode: 802.11g


Test Mode:802.11g 2412MHz Chain0




Test Mode:802.11g 2462MHz Chain0

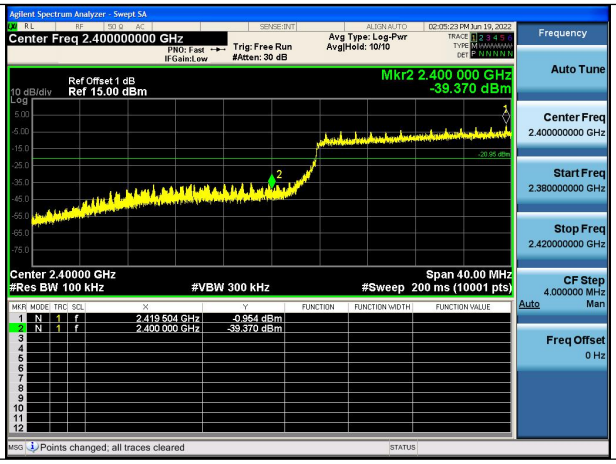
Test Mode: 802.11n HT20



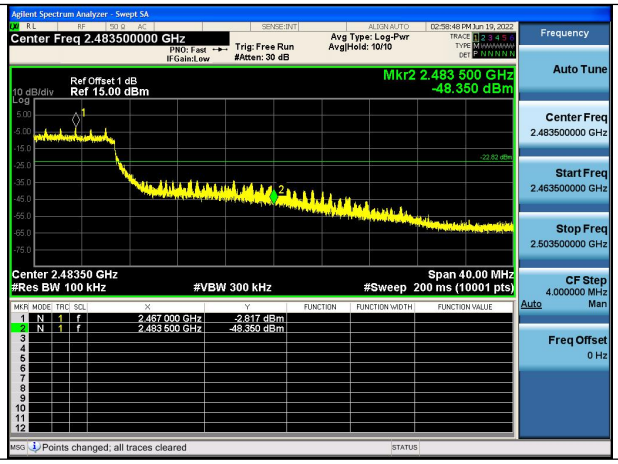

Test Mode:802.11n HT20 2412MHz Chain0


Test Mode:802.11n HT20 2462MHz Chain0

Test Mode: 802.11n HT40




Test Mode:802.11n HT40 2422MHz Chain0




Test Mode:802.11n HT40 2452MHz Chain0

# APPENDIX B – TEST DATA OF RADIATED EMISSION

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

Chain0 is selected as the worst case for the test.

Sample calculation: (95.18 dBuV/m) = (61.18 dBμV) + (8.90 dB) + (25.10 1/m), the corresponding frequency is 2412MHz.

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 95.18 | 61.18 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 46.63 | 12.63 | -27.37 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 92.70 | 58.70 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 45.33 | 11.33 | -28.67 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 93.06 | 59.06 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 35.30 | 1.30 | -18.70 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 90.92 | 56.92 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 33.08 | -0.92 | -20.92 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 97.74 | 63.74 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 45.94 | 11.94 | -28.06 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 95.25 | 61.25 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 43.13 | 9.13 | -30.87 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 93.27 | 59.27 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 35.16 | 1.16 | -18.84 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 90.71 | 56.71 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 33.05 | -0.95 | -20.95 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 95.85 | 61.85 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 45.21 | 11.21 | -28.79 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 93.75 | 59.75 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 43.76 | 9.76 | -30.24 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 92.20 | 58.20 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 36.98 | 2.98 | -17.02 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 90.10 | 56.10 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 35.33 | 1.33 | -18.67 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 97.25 | 63.25 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 45.33 | 11.33 | -28.67 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 94.46 | 60.46 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 43.78 | 9.78 | -30.22 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 92.10 | 58.10 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 35.22 | 1.22 | -18.78 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 89.26 | 55.26 | 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): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 95.21 | 61.21 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 45.21 | 11.21 | -28.79 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 92.62 | 58.62 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 43.44 | 9.44 | -30.56 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 93.52 | 59.52 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 35.69 | 1.69 | -18.31 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2412 | 91.11 | 57.11 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 33.69 | -0.31 | -20.31 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 97.53 | 63.53 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 45.21 | 11.21 | -28.79 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 95.10 | 61.10 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 42.57 | 8.57 | -31.43 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 93.15 | 59.15 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 36.43 | 2.43 | -17.57 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
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 (1/m) |
|---|---|---|---|---|---|---|---|
| 1 | 2462 | 90.92 | 56.92 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 34.21 | 0.21 | -19.79 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
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) |
|---|---|---|---|---|---|---|---|
| 1 | 2422 | 95.13 | 61.13 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 46.47 | 12.47 | -27.53 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
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) |
|---|---|---|---|---|---|---|---|
| 1 | 2422 | 92.66 | 58.66 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 43.93 | 9.93 | -30.07 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
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) |
|---|---|---|---|---|---|---|---|
| 1 | 2422 | 92.31 | 58.31 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 35.13 | 1.13 | -18.87 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
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) |
|---|---|---|---|---|---|---|---|
| 1 | 2422 | 90.00 | 56.00 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 33.37 | -0.63 | -20.63 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2452
Channel No.:9
Test Mode: 802.11n(HT40)
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) |
|---|---|---|---|---|---|---|---|
| 1 | 2452 | 94.75 | 60.75 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 45.48 | 11.48 | -28.52 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2452
Channel No.:9
Test Mode: 802.11n(HT40)
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) |
|---|---|---|---|---|---|---|---|
| 1 | 2452 | 92.51 | 58.51 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 42.61 | 8.61 | -31.39 | 74.00 | 8.90 | 25.10 |

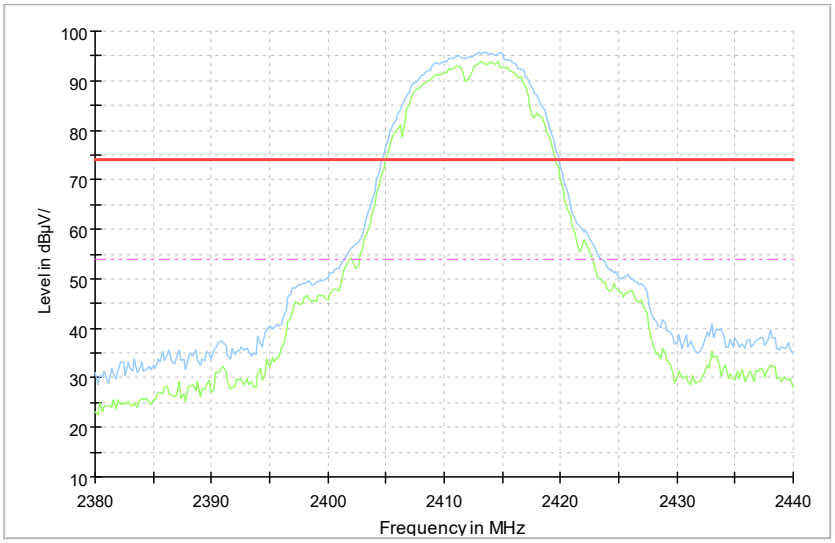
Carrier frequency (MHz): 2452
Channel No.:9
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Average

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 2452 | 93.47 | 59.47 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 36.13 | 2.13 | -17.87 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2452
Channel No.9
Test Mode: 802.11n(HT40)
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) |
|---|---|---|---|---|---|---|---|
| 1 | 2452 | 90.75 | 56.75 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 34.79 | 0.79 | -19.21 | 54.00 | 8.90 | 25.10 |

Full Spectrum




Comment

Radiated Emission Band Edge
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b

***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:

Result= $P_{mea}$ + $A_{Rpl}$

Sample calculation: (28.63 dBμV/m) = (48.53 dBμV/m) + (-19.9 dB), the corresponding frequency is 35.189500MHz.

Chain0 is selected as the worst case for the test.

The worst case attitude: The mobile lay down.

For 802.11b Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.189500 | 28.63 | -19.9 | 48.53 | Vertical | 40.00 |
| 72.680000 | 22.72 | -22.7 | 45.42 | Vertical | 40.00 |
| 138.397500 | 23.47 | -22.7 | 46.17 | Vertical | 43.50 |
| 191.844500 | 16.71 | -19.5 | 36.21 | Vertical | 43.50 |
| 543.663500 | 13.67 | -9.8 | 23.47 | Vertical | 46.00 |
| 956.544000 | 15.89 | -2.6 | 18.49 | Vertical | 46.00 |

For 802.11g Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.674500 | 28.35 | -19.7 | 48.05 | Vertical | 40.00 |
| 72.631500 | 22.83 | -22.7 | 45.53 | Vertical | 40.00 |
| 137.427500 | 24.22 | -22.7 | 46.92 | Vertical | 43.50 |
| 186.849000 | 16.57 | -20.0 | 36.57 | Vertical | 43.50 |
| 555.740000 | 12.82 | -9.5 | 22.32 | Vertical | 46.00 |
| 934.185500 | 15.69 | -2.8 | 18.49 | Vertical | 46.00 |

For 802.11n(HT20) Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 36.014000 | 27.83 | -19.6 | 47.43 | Vertical | 40.00 |
| 72.437500 | 22.68 | -22.7 | 45.38 | Vertical | 40.00 |
| 137.427500 | 24.19 | -22.7 | 46.89 | Vertical | 43.50 |
| 190.147000 | 16.63 | -19.6 | 36.23 | Vertical | 43.50 |
| 554.818500 | 12.92 | -9.6 | 22.52 | Vertical | 46.00 |
| 953.973500 | 15.78 | -2.7 | 18.48 | Vertical | 46.00 |

For 802.11b Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.723000 | 28.52 | -19.7 | 48.22 | Vertical | 40.00 |
| 72.340500 | 22.66 | -22.6 | 45.26 | Vertical | 40.00 |
| 137.815500 | 24.01 | -22.7 | 46.71 | Vertical | 43.50 |
| 186.849000 | 16.45 | -20.0 | 36.45 | Vertical | 43.50 |
| 535.758000 | 13.21 | -10.0 | 23.21 | Vertical | 46.00 |
| 941.169500 | 15.77 | -2.8 | 18.57 | Vertical | 46.00 |

For 802.11g Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.529000 | 28.35 | -19.8 | 48.15 | Vertical | 40.00 |
| 72.680000 | 22.78 | -22.7 | 45.48 | Vertical | 40.00 |
| 138.591500 | 23.61 | -22.7 | 46.31 | Vertical | 43.50 |
| 188.789000 | 15.86 | -19.8 | 35.66 | Vertical | 43.50 |
| 407.427000 | 12.44 | -12.9 | 25.34 | Vertical | 46.00 |
| 953.537000 | 15.84 | -2.7 | 18.54 | Vertical | 46.00 |

For 802.11n(HT20) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.529000 | 28.43 | -19.8 | 48.23 | Vertical | 40.00 |
| 72.777000 | 22.70 | -22.8 | 45.50 | Vertical | 40.00 |
| 137.961000 | 23.93 | -22.7 | 46.63 | Vertical | 43.50 |
| 192.717500 | 16.35 | -19.5 | 35.85 | Vertical | 43.50 |
| 554.527500 | 12.98 | -9.6 | 22.58 | Vertical | 46.00 |
| 860.271500 | 15.19 | -4.0 | 19.19 | Vertical | 46.00 |

For 802.11b Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 36.014000 | 28.19 | -19.6 | 47.79 | Vertical | 40.00 |
| 72.777000 | 22.66 | -22.8 | 45.46 | Vertical | 40.00 |
| 137.476000 | 24.31 | -22.7 | 47.01 | Vertical | 43.50 |
| 189.710500 | 16.21 | -19.6 | 35.81 | Vertical | 43.50 |
| 543.081500 | 13.80 | -9.8 | 23.60 | Vertical | 46.00 |
| 942.770000 | 15.81 | -2.8 | 18.61 | Vertical | 46.00 |

For 802.11g Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.432000 | 28.86 | -19.8 | 48.66 | Vertical | 40.00 |
| 72.631500 | 22.53 | -22.7 | 45.23 | Vertical | 40.00 |
| 137.233500 | 24.36 | -22.7 | 47.06 | Vertical | 43.50 |
| 189.516500 | 15.88 | -19.7 | 35.58 | Vertical | 43.50 |
| 548.562000 | 13.39 | -9.7 | 23.09 | Vertical | 46.00 |
| 935.301000 | 15.78 | -2.8 | 18.58 | Vertical | 46.00 |

For 802.11n(HT20) Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.820000 | 28.60 | -19.7 | 48.30 | Vertical | 40.00 |
| 72.389000 | 22.34 | -22.7 | 45.04 | Vertical | 40.00 |
| 137.282000 | 24.27 | -22.7 | 46.97 | Vertical | 43.50 |
| 191.747500 | 16.54 | -19.5 | 36.04 | Vertical | 43.50 |
| 544.148500 | 13.63 | -9.8 | 23.43 | Vertical | 46.00 |
| 922.206000 | 15.65 | -3.0 | 18.65 | Vertical | 46.00 |

For 802.11n(HT40) Channel No.:3

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 30.485000 | 26.63 | -21.1 | 47.73 | Vertical | 40.00 |
| 72.874000 | 22.47 | -22.8 | 45.27 | Vertical | 40.00 |
| 138.494500 | 23.97 | -22.7 | 46.67 | Vertical | 43.50 |
| 191.311000 | 16.52 | -19.6 | 36.12 | Vertical | 43.50 |
| 543.178500 | 13.82 | -9.8 | 23.62 | Vertical | 46.00 |
| 910.178000 | 15.64 | -3.1 | 18.74 | Vertical | 46.00 |

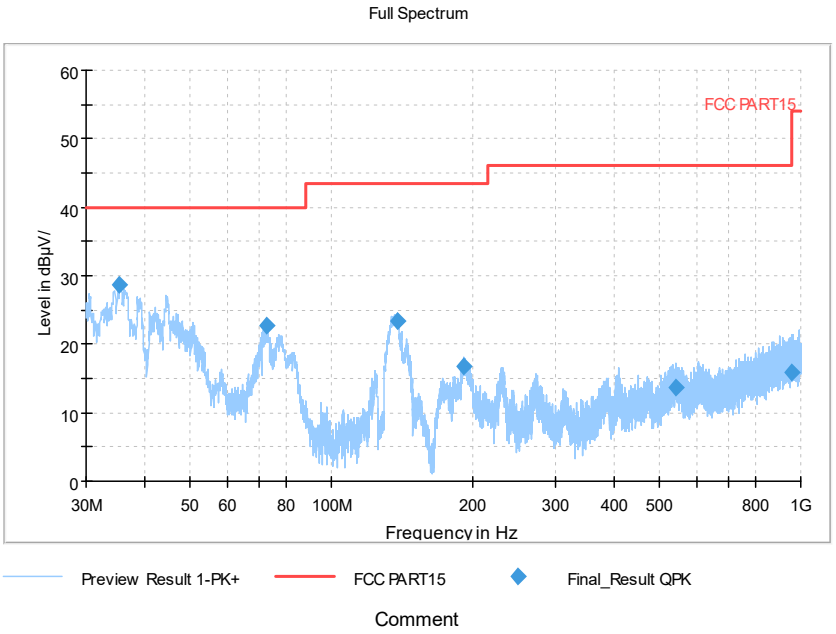
For 802.11n(HT40) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.335000 | 28.03 | -19.8 | 47.83 | Vertical | 40.00 |
| 72.534500 | 22.51 | -22.7 | 45.21 | Vertical | 40.00 |
| 138.106500 | 24.44 | -22.7 | 47.14 | Vertical | 43.50 |
| 190.001500 | 16.30 | -19.6 | 35.90 | Vertical | 43.50 |
| 539.686500 | 13.48 | -9.9 | 23.38 | Vertical | 46.00 |
| 918.956500 | 15.57 | -3.0 | 18.57 | Vertical | 46.00 |

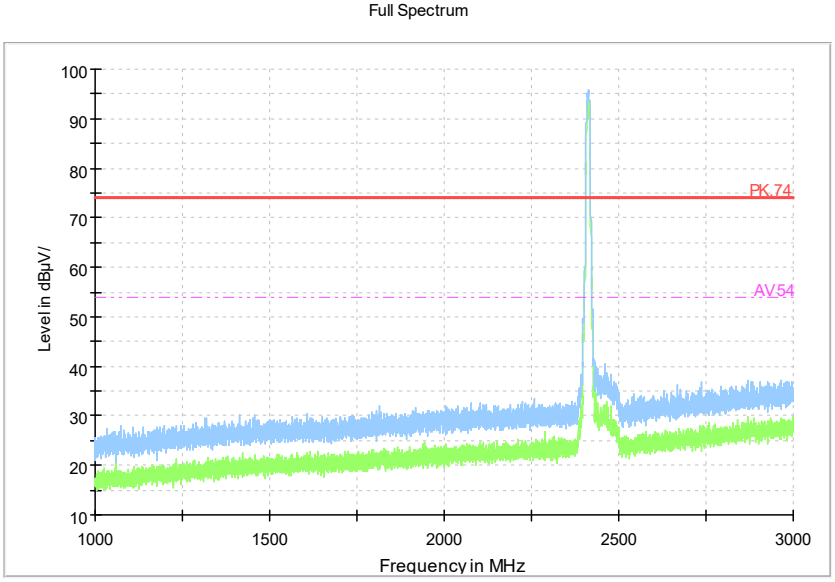
For 802.11n(HT40) Channel No.:9

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) |
|---|---|---|---|---|---|
| 35.238000 | 28.04 | -19.9 | 47.94 | Vertical | 40.00 |
| 73.019500 | 22.21 | -22.8 | 45.01 | Vertical | 40.00 |
| 138.106500 | 24.48 | -22.7 | 47.18 | Vertical | 43.50 |
| 186.800500 | 15.86 | -20.0 | 35.86 | Vertical | 43.50 |
| 555.255000 | 12.97 | -9.5 | 22.47 | Vertical | 46.00 |
| 923.855000 | 15.57 | -3.0 | 18.57 | Vertical | 46.00 |

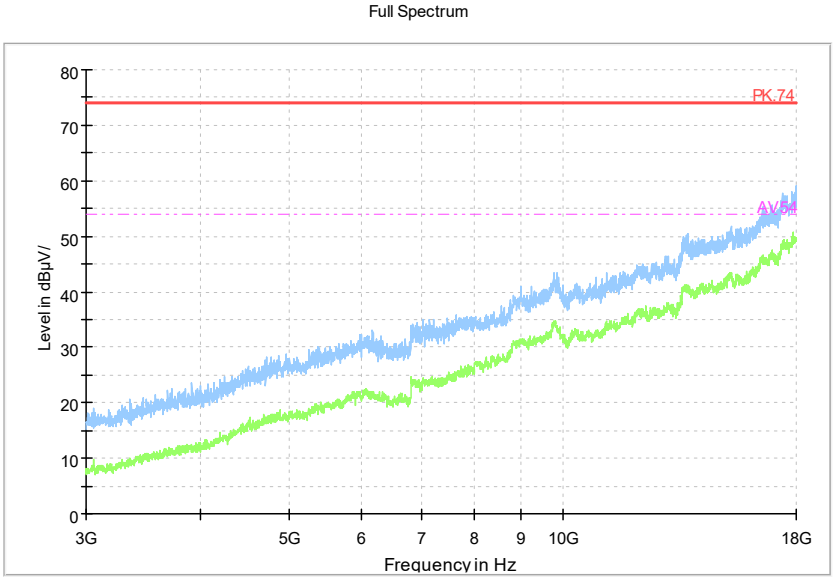
Carrier frequency (MHz): 2412
Channel No.:1



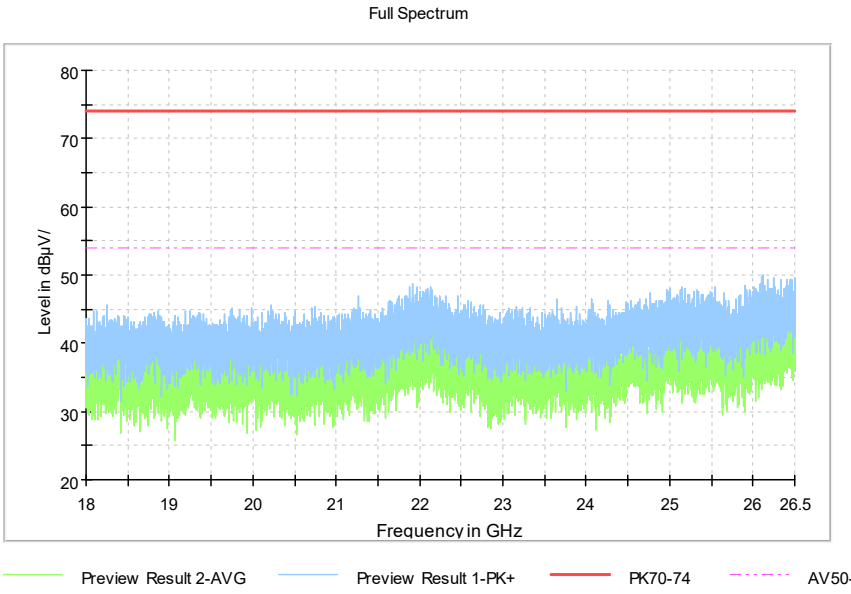

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



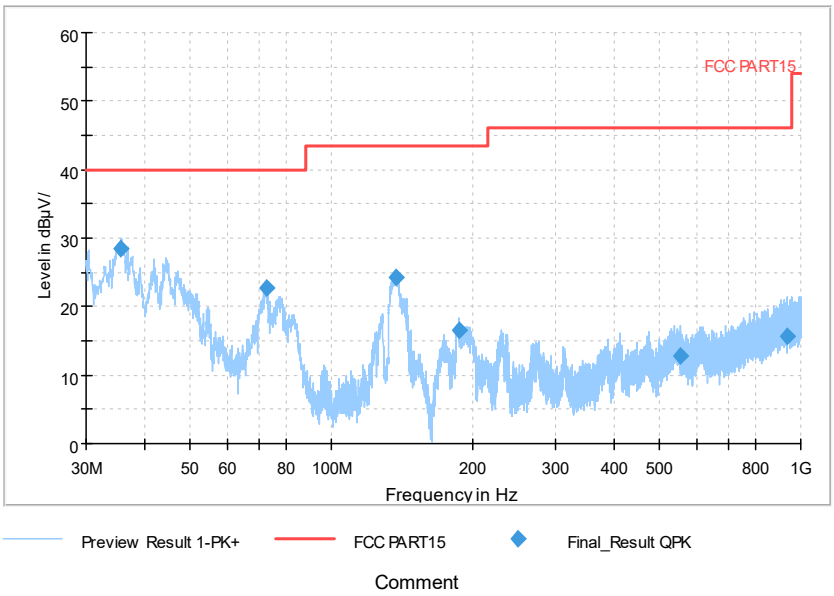

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



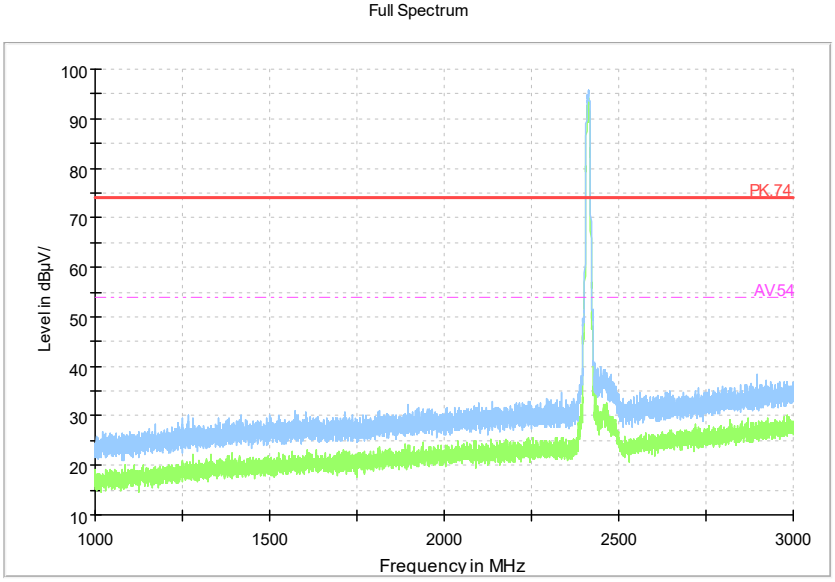

Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b




Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

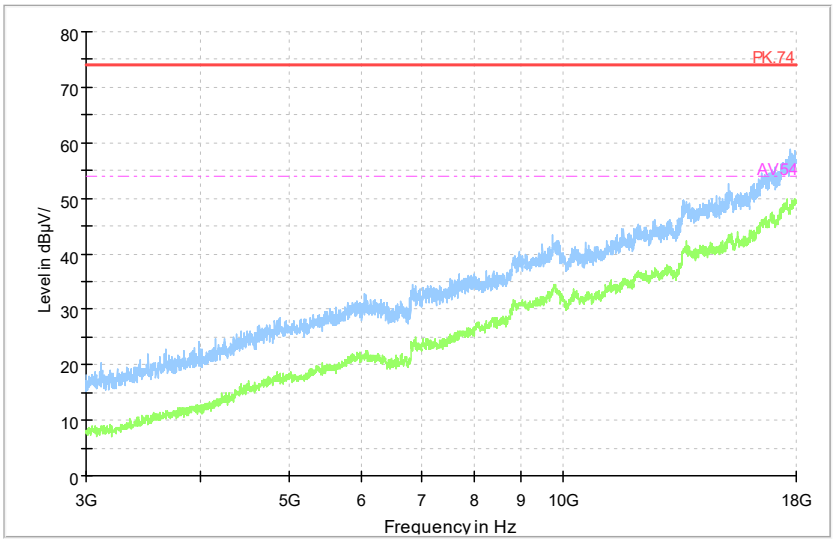



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g



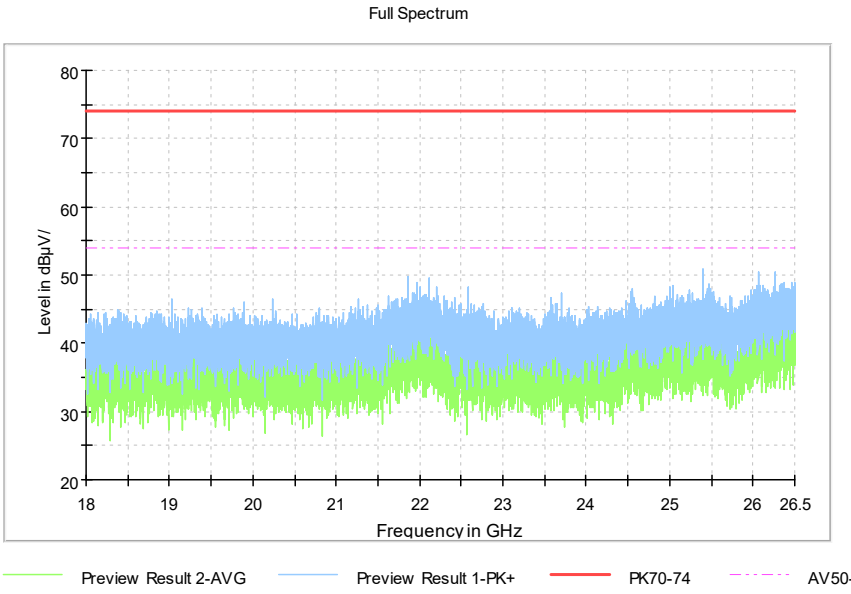

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

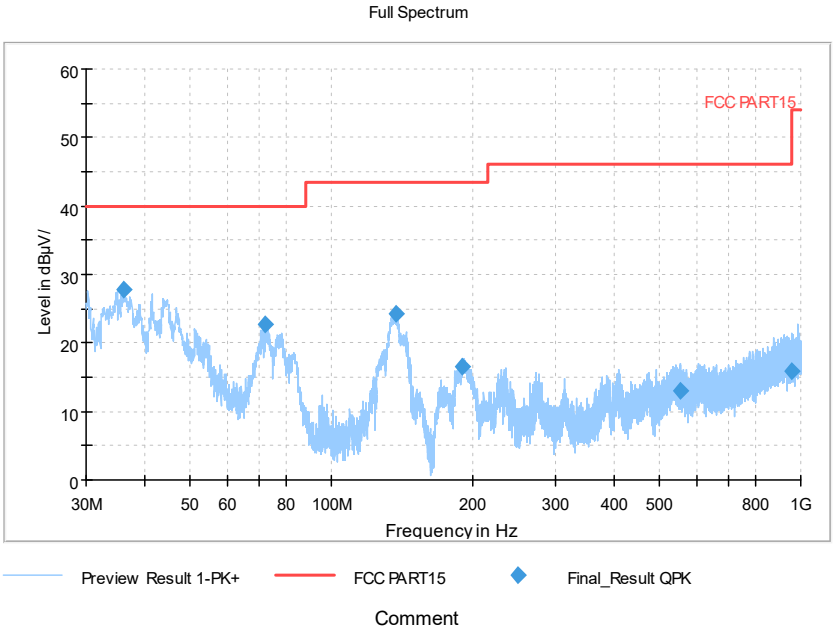



Comment

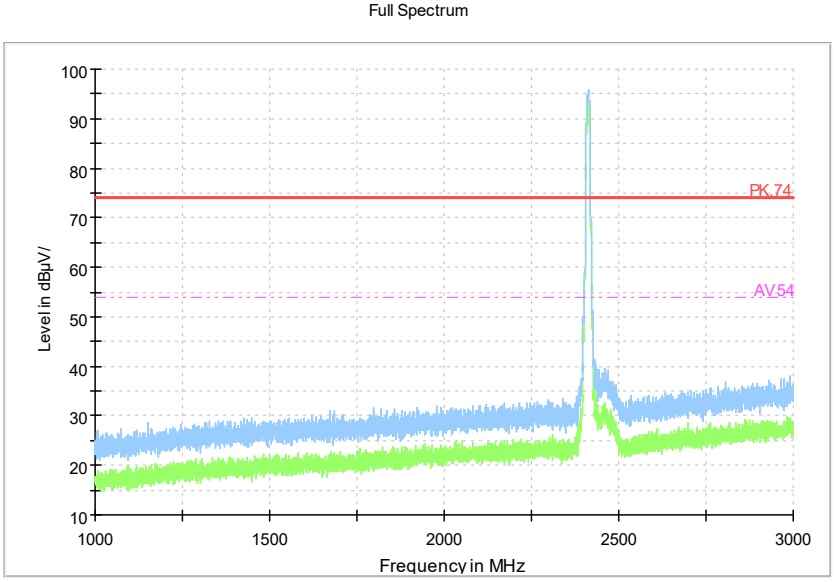
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



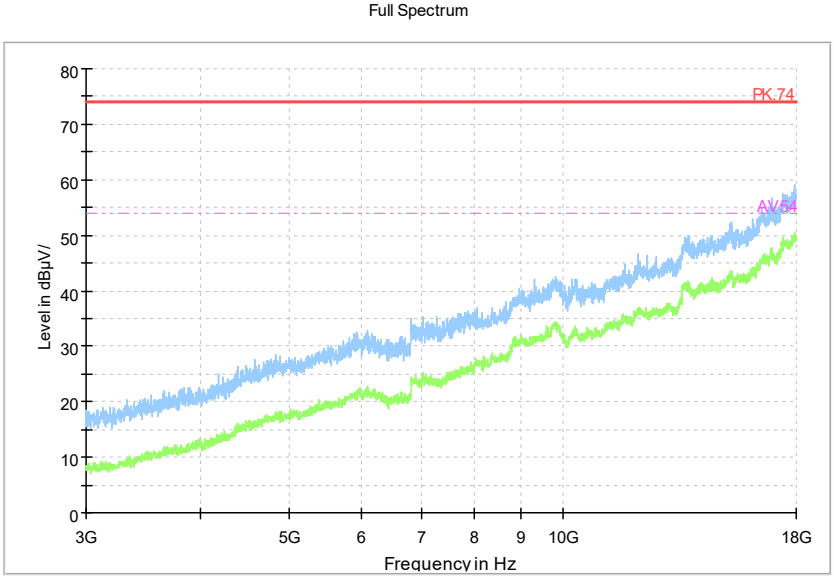

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



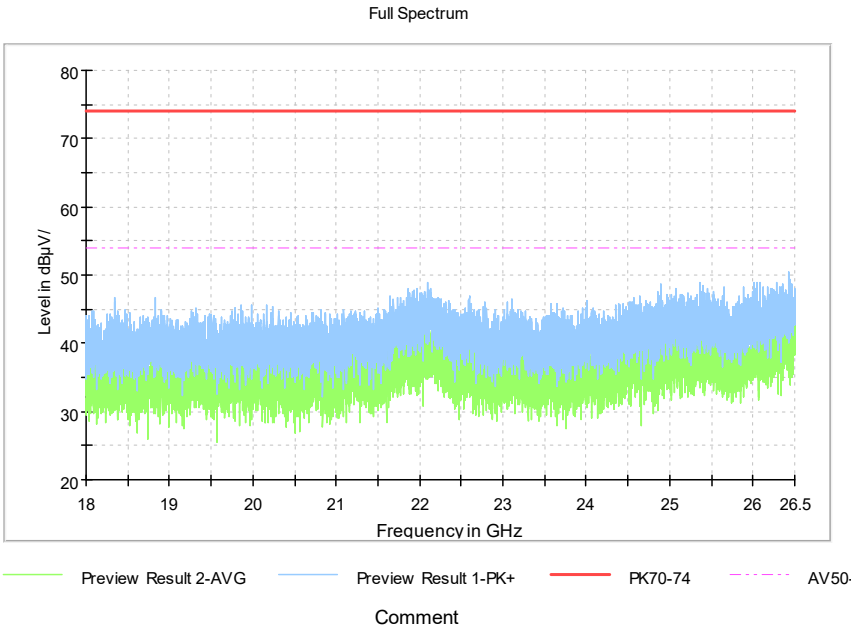

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

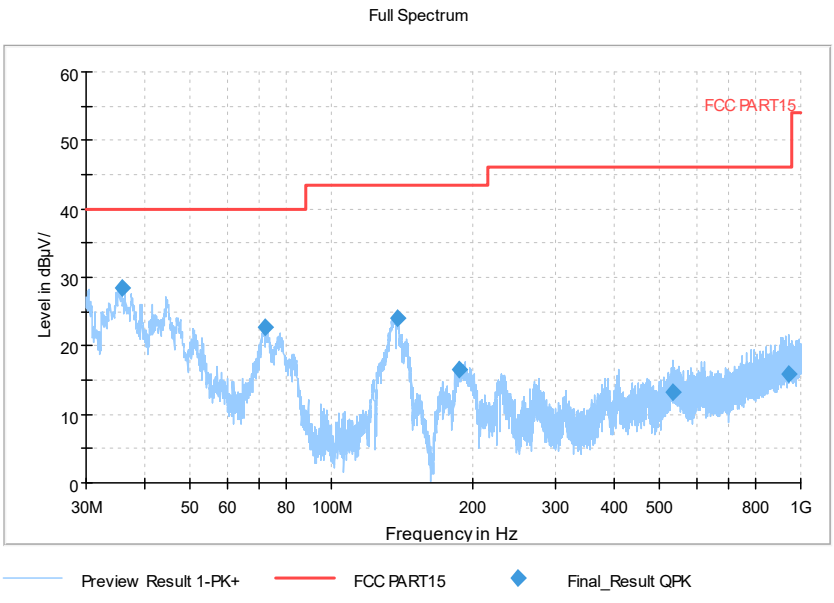



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



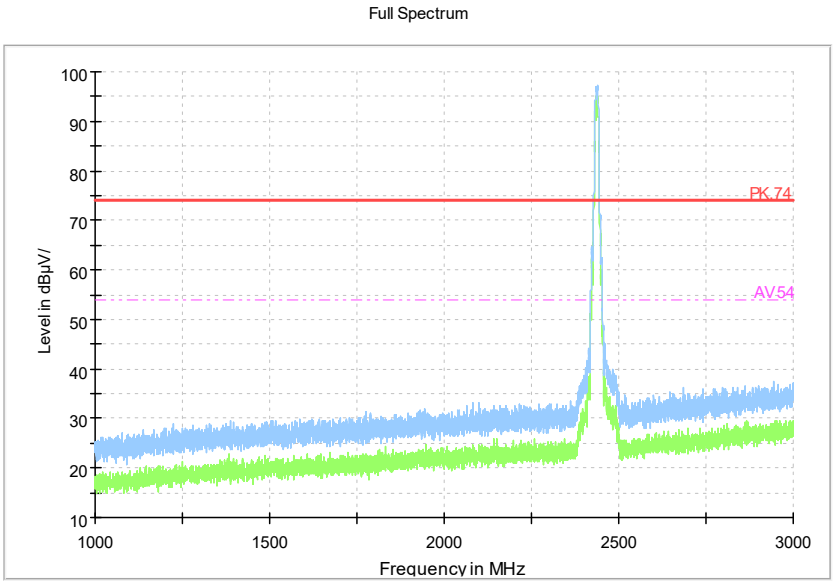

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2437
Channel No.:6



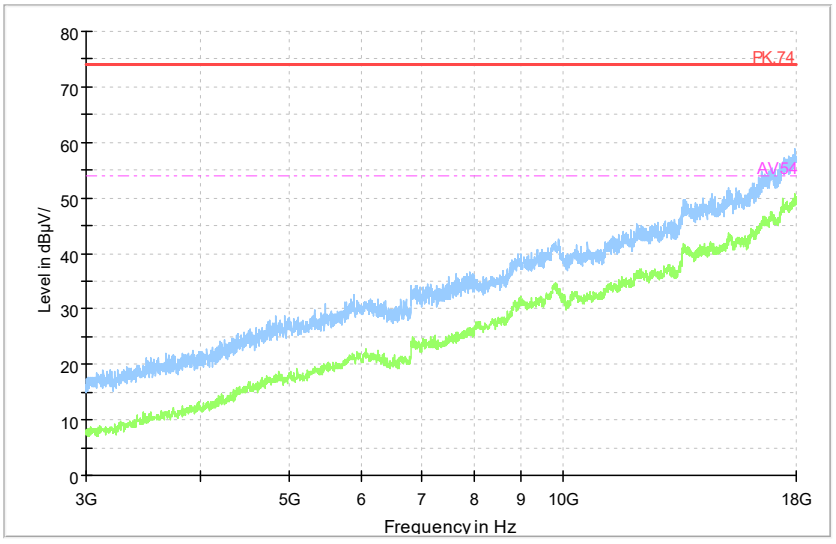

Frequency Range: 30MHz -1GHz
Detector: QP mode

Test Mode: 802.11b



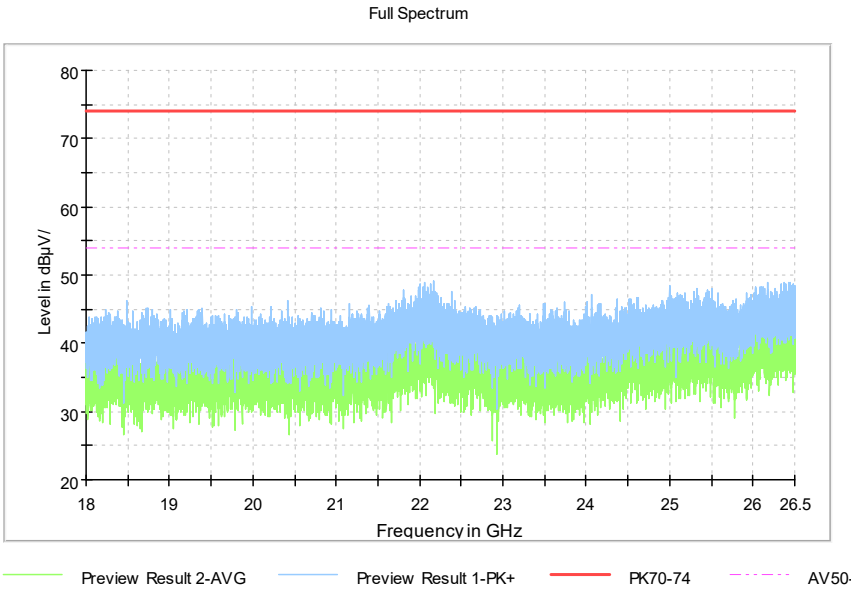

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

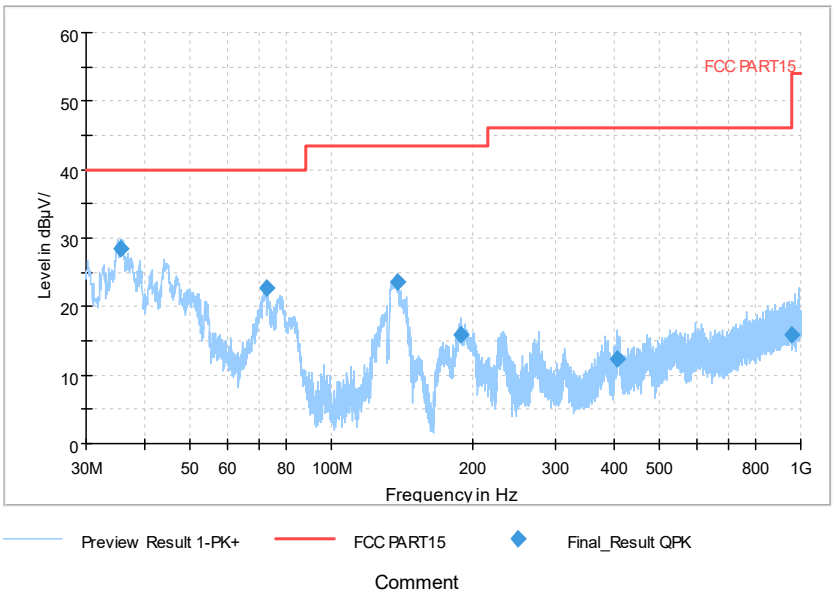



Comment

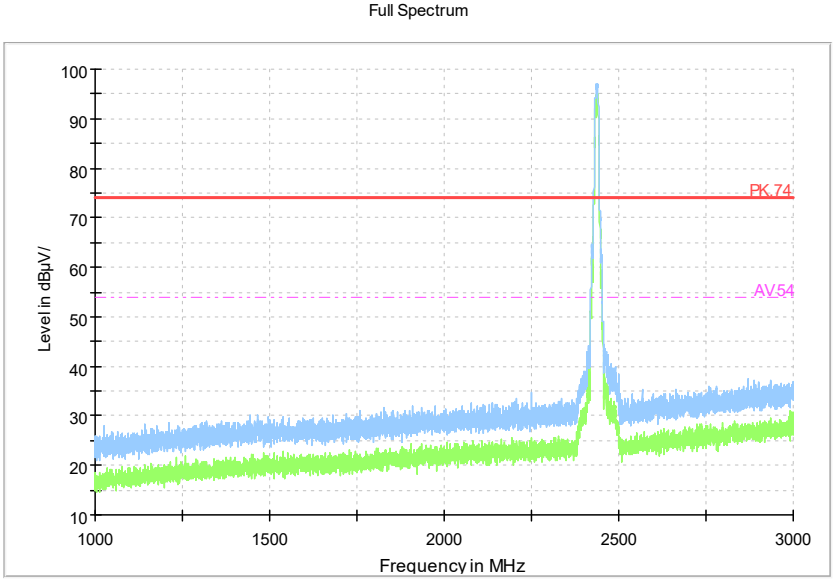
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b




Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

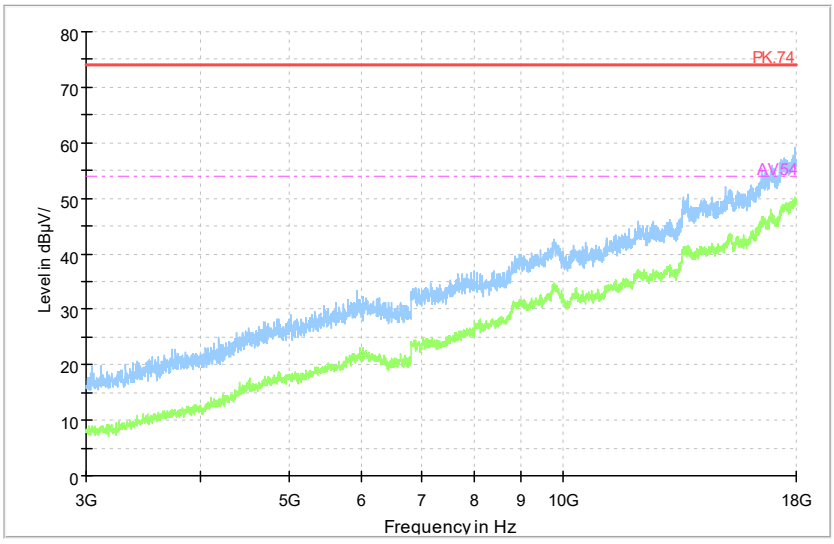



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g



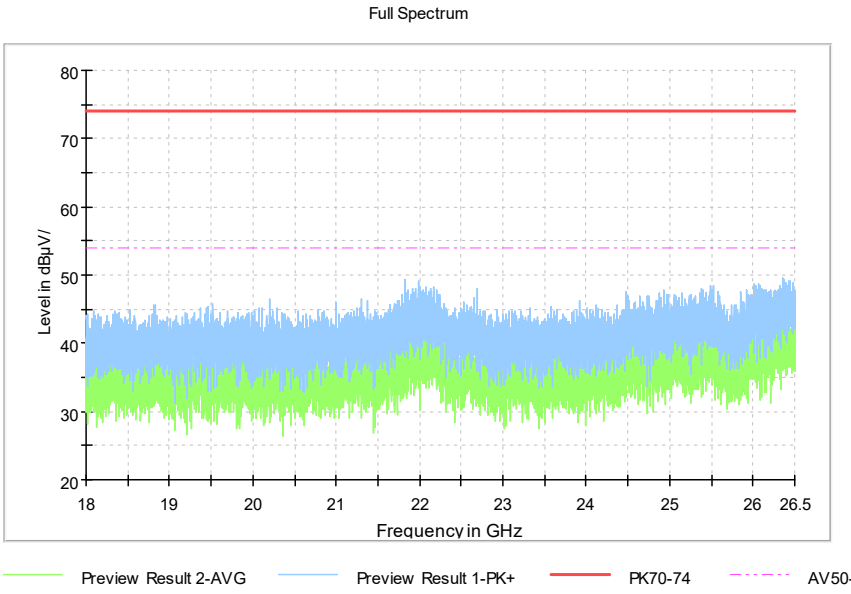

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

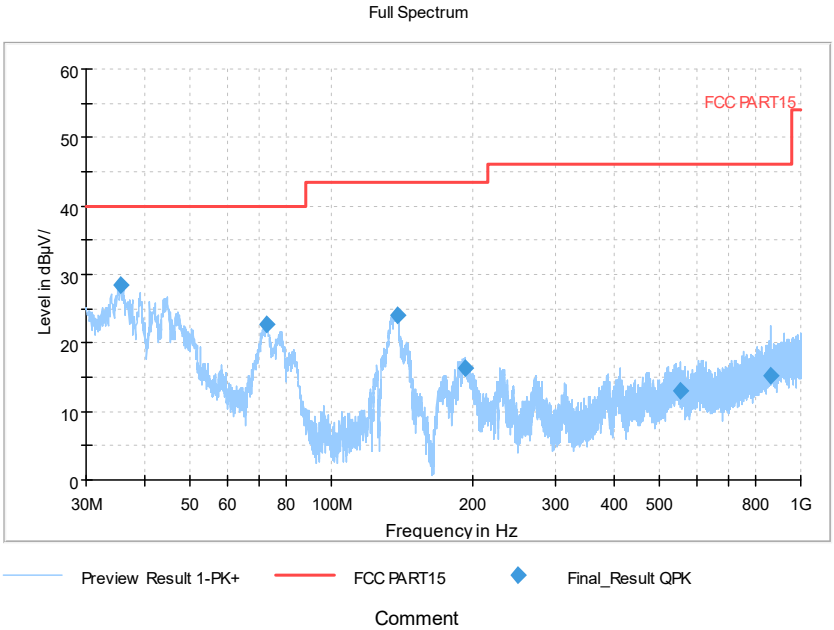



Comment

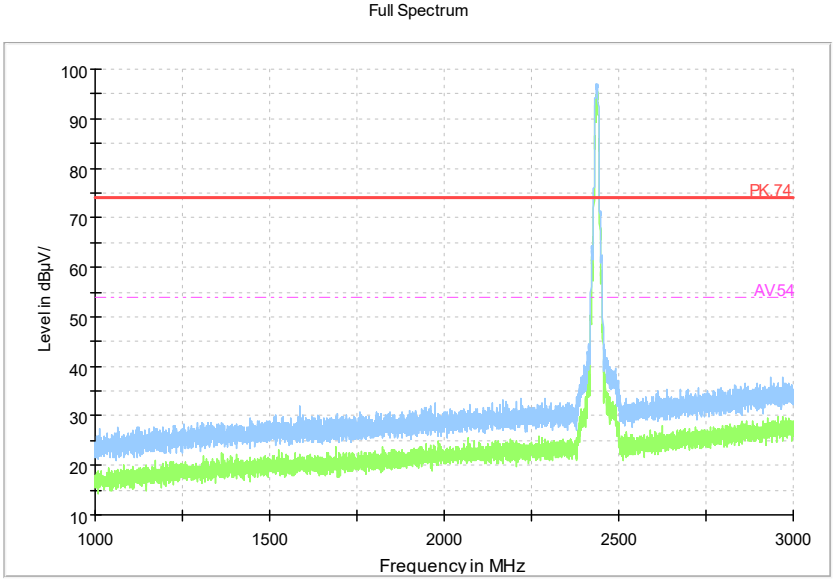
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



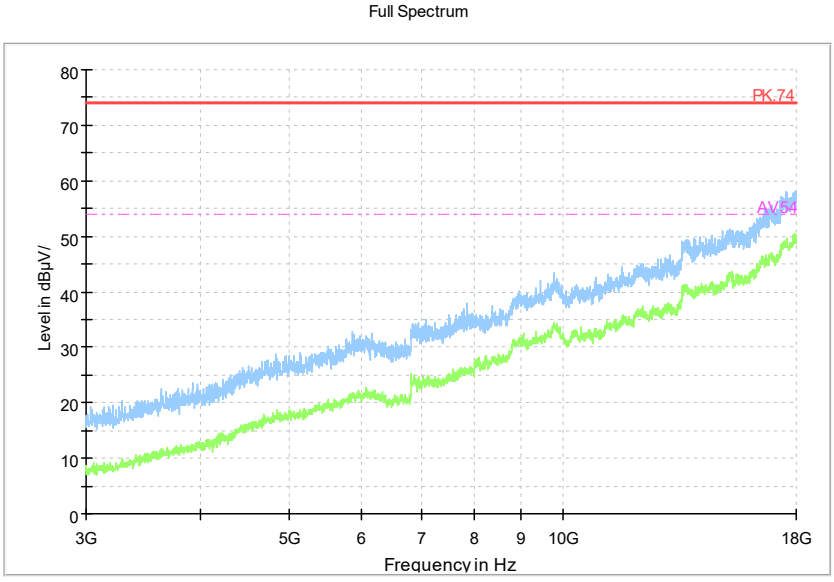

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



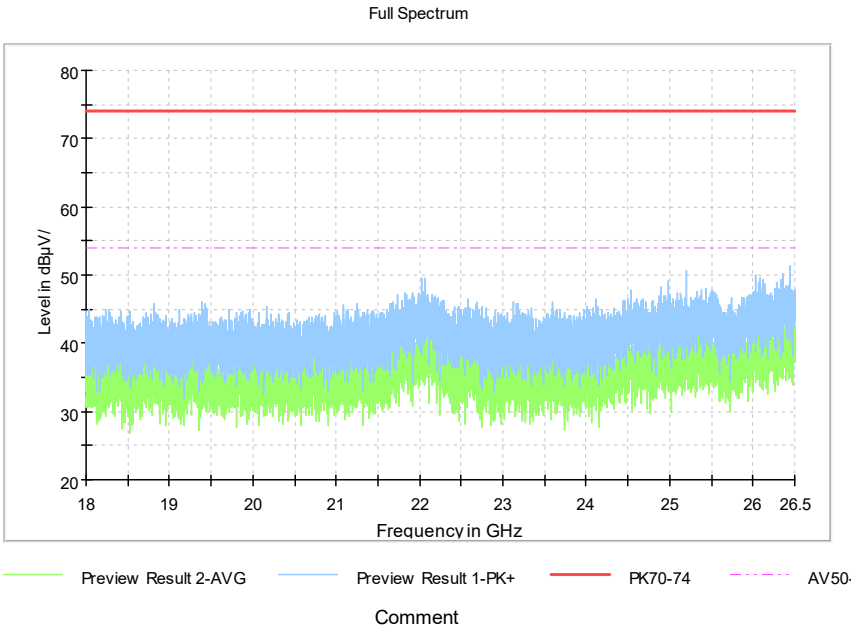

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

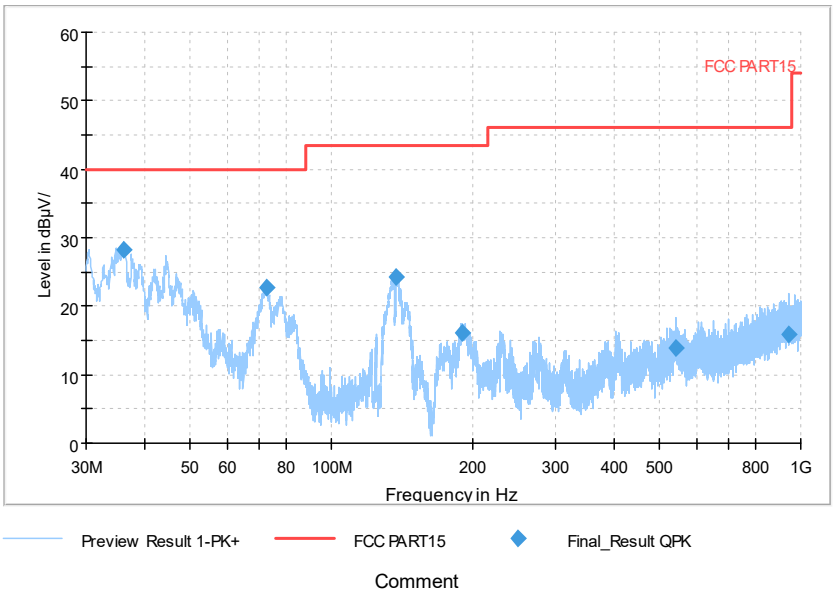



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

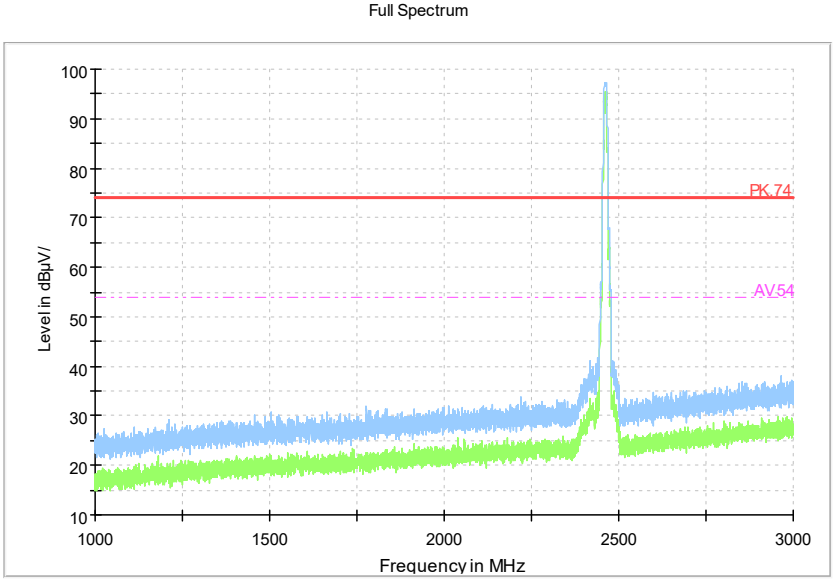



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2462
Channel No.:11

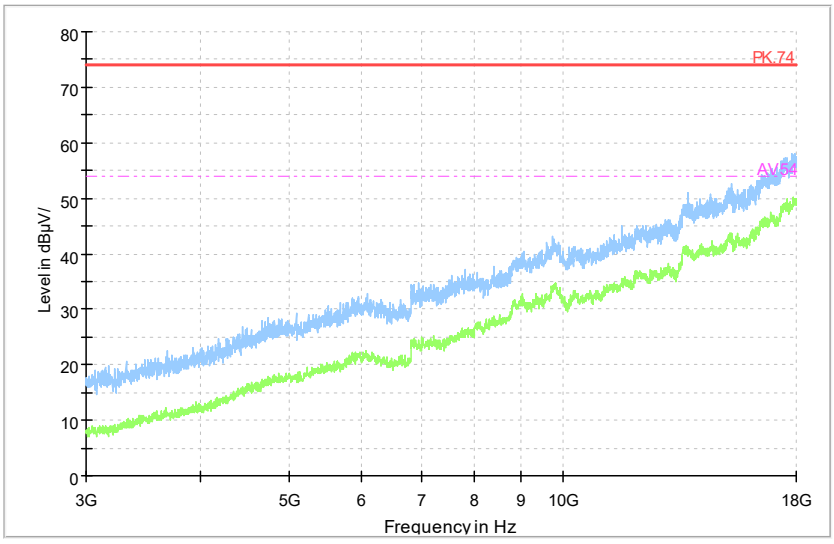



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



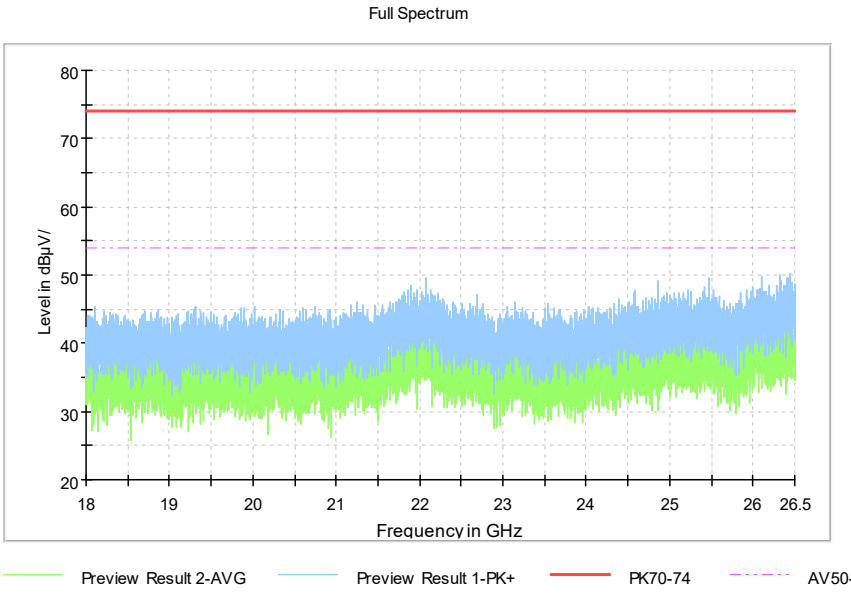

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

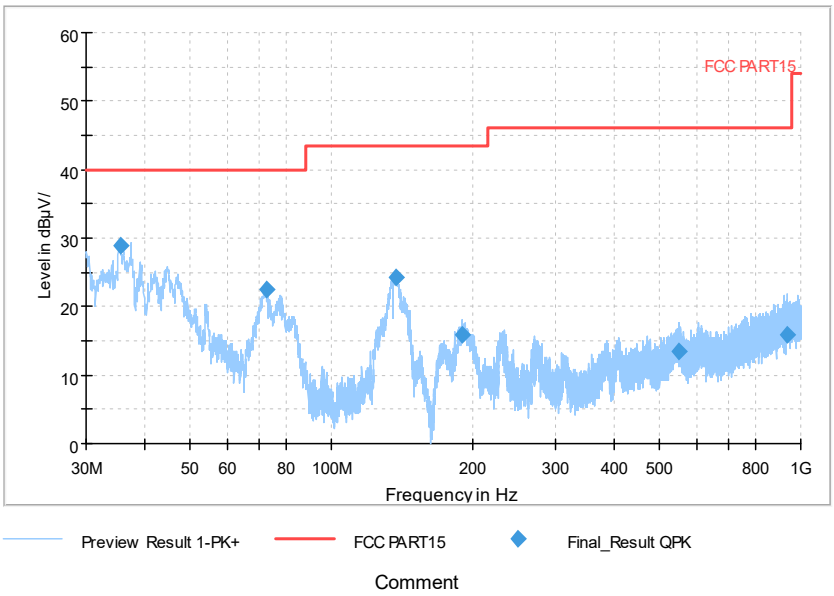



Comment

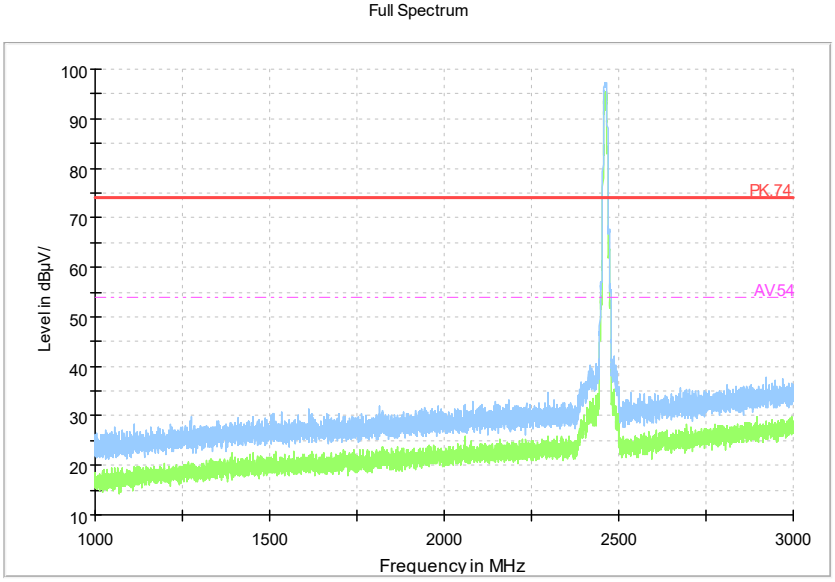
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b




Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

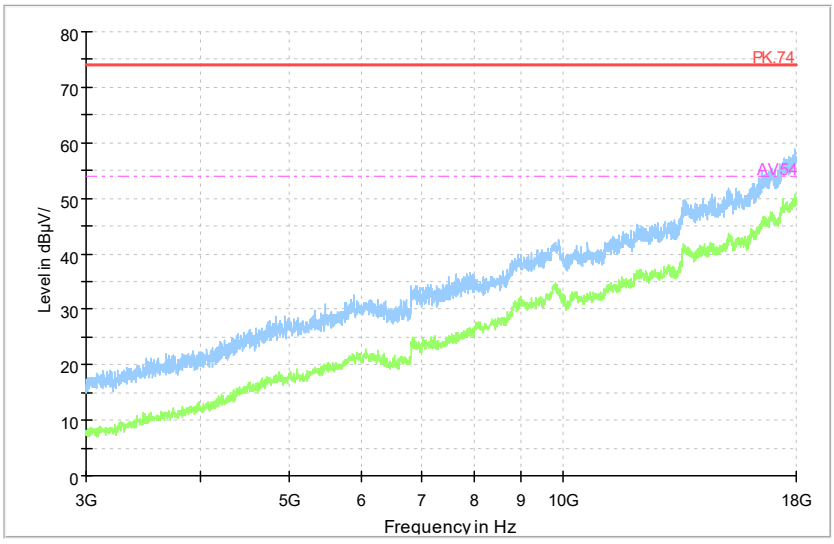



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g



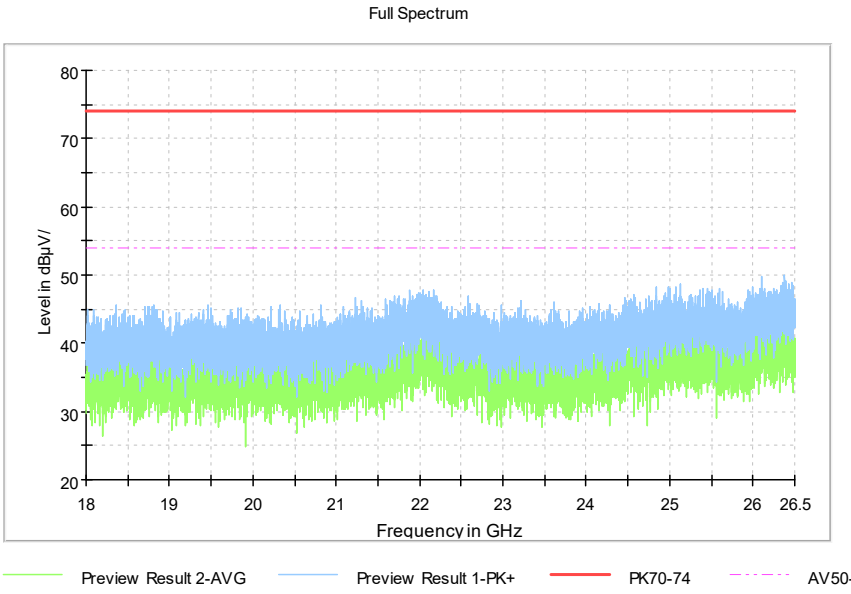

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

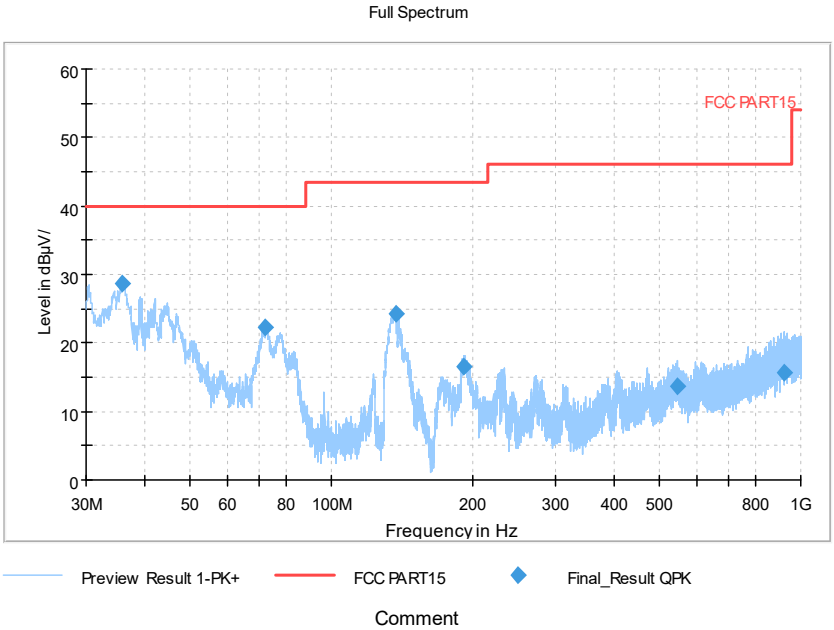



Comment

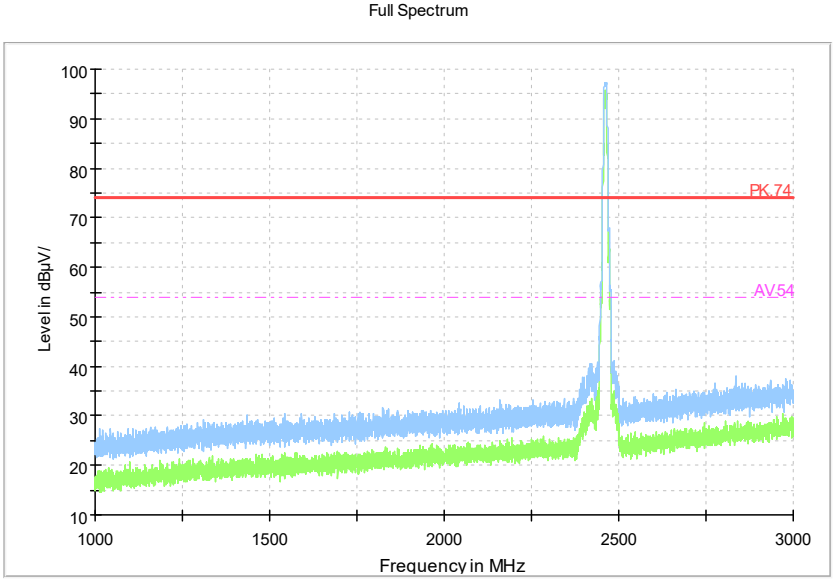
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g




Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

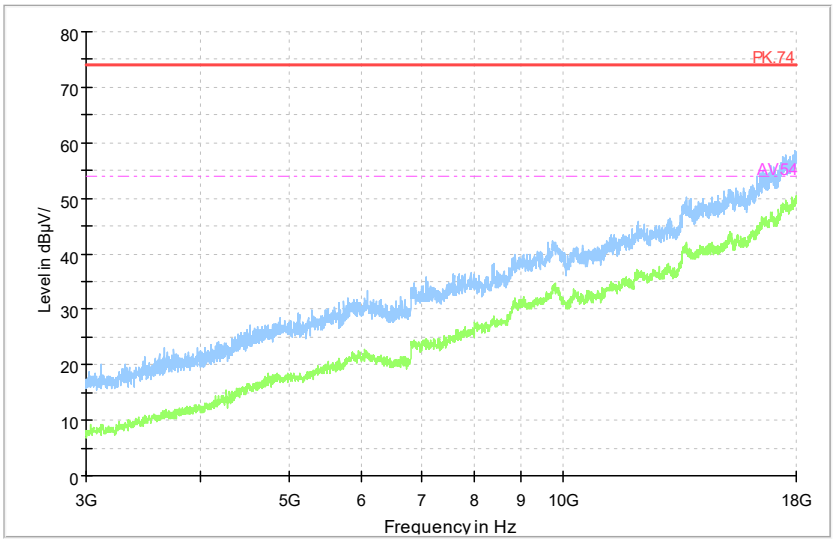



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)



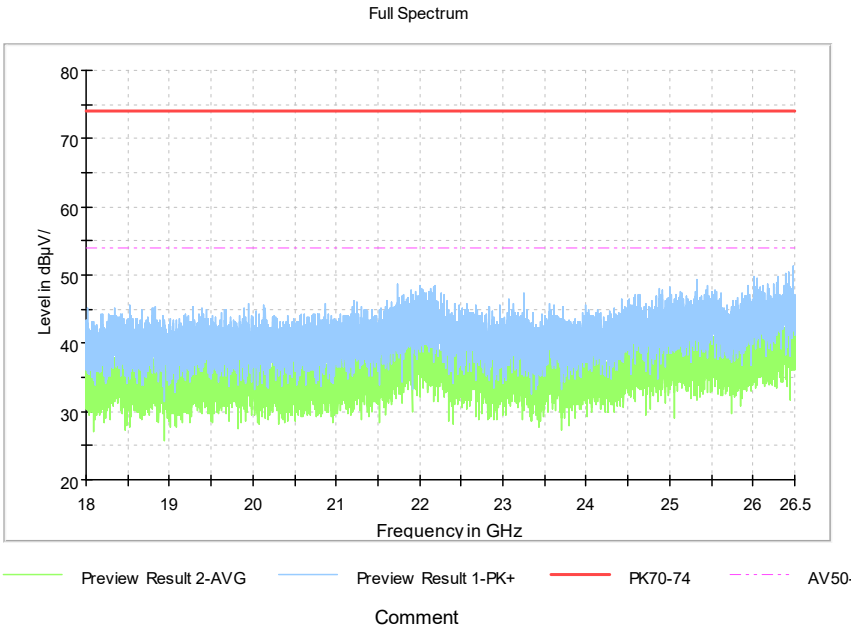

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

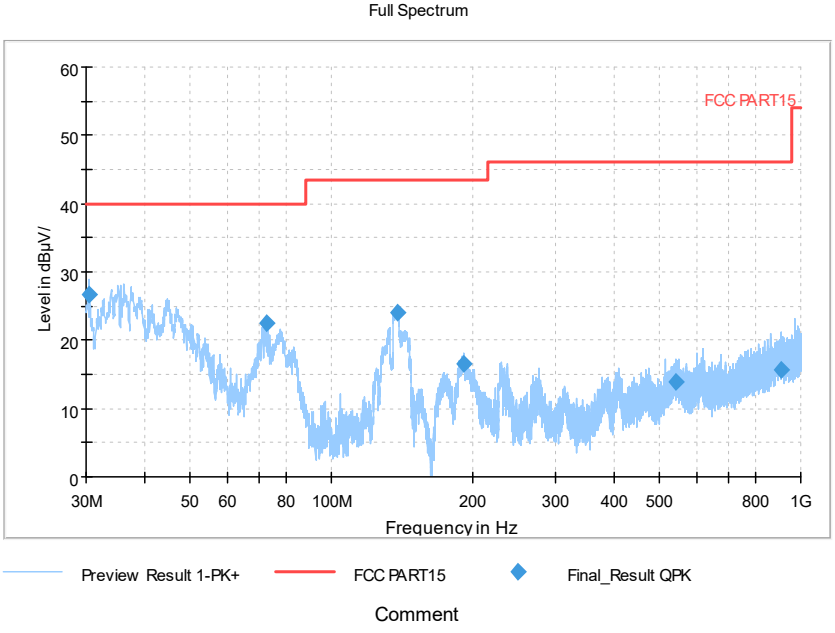



Comment

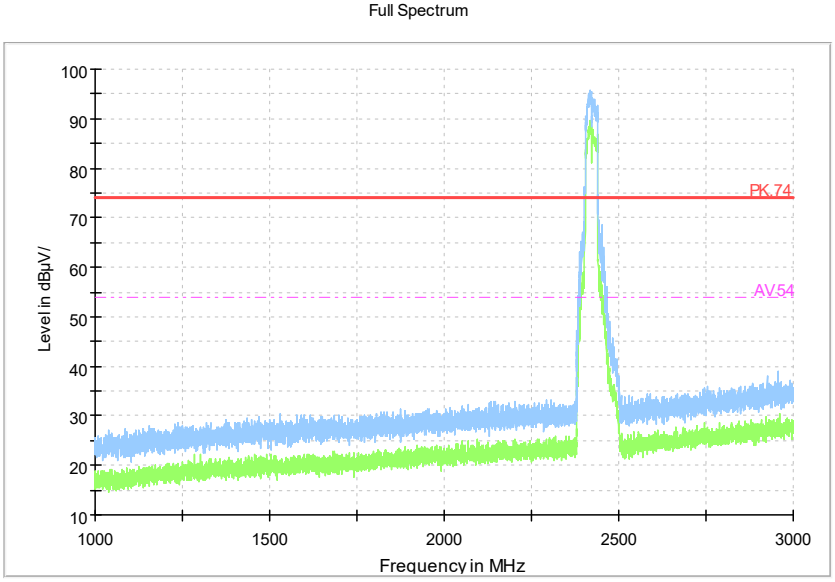
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



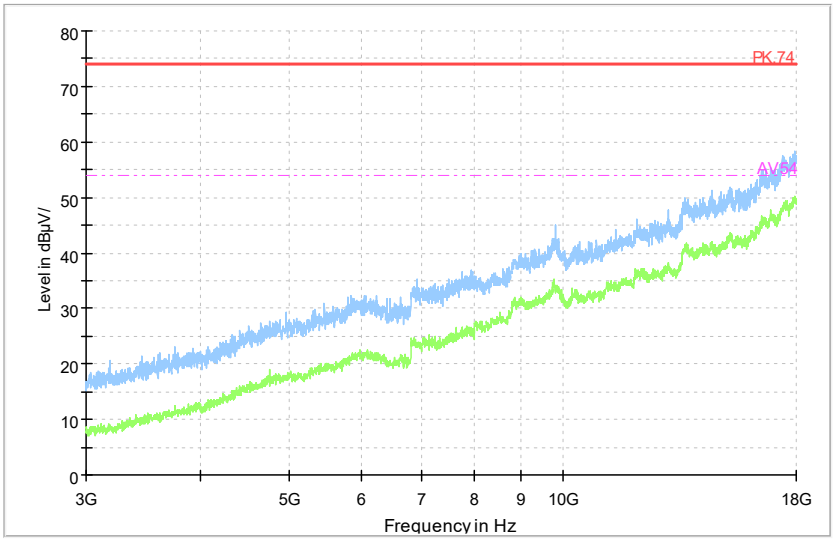

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



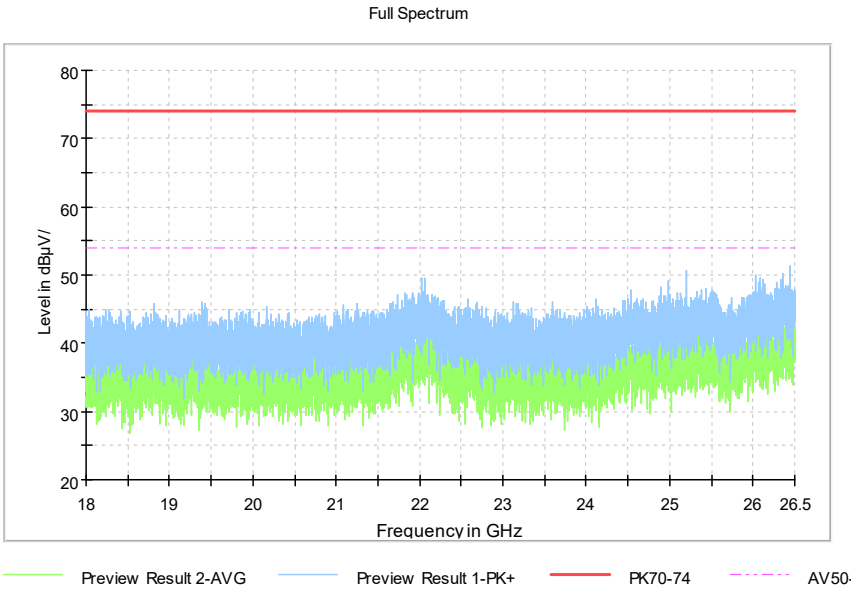

Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT40) channel 3



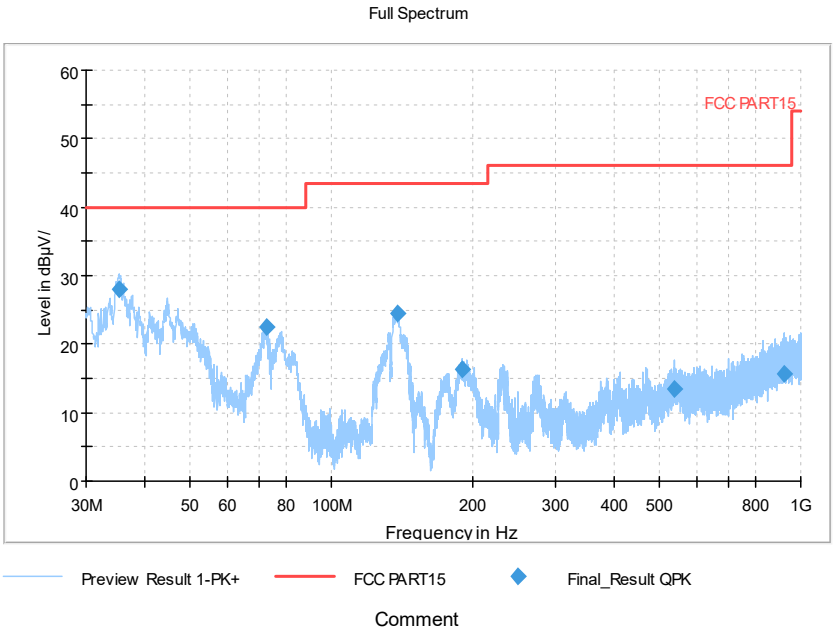

Frequency Range: 1GHz -3GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 3



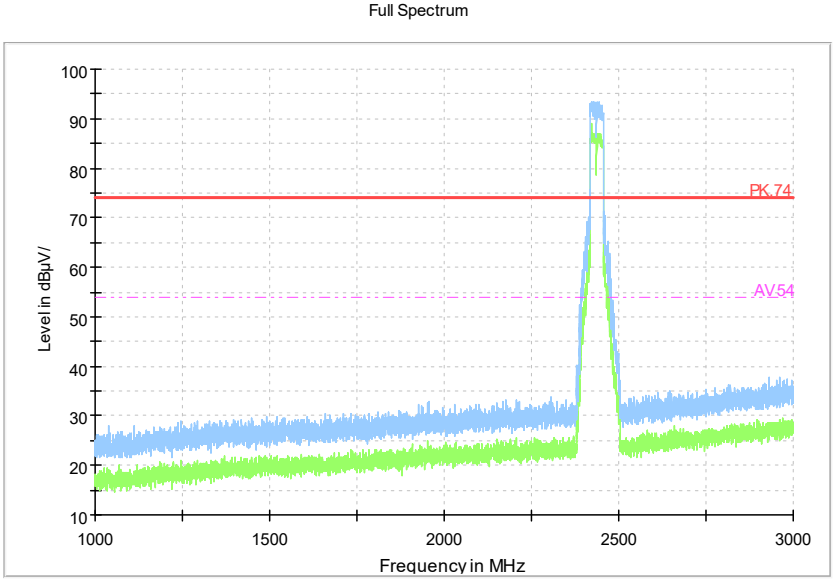

Frequency Range: 3GHz -18GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 3



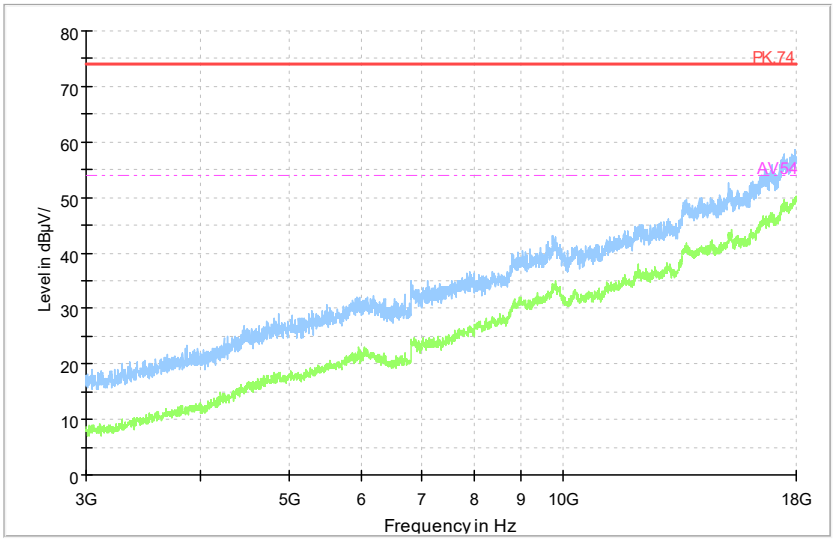

Frequency Range: 18GHz -26.5GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 3



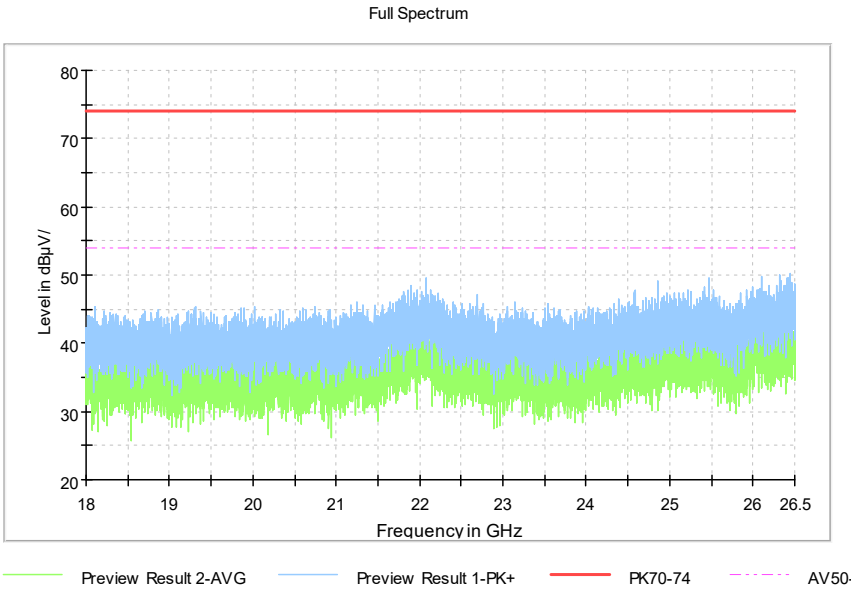

Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT40) channel 6



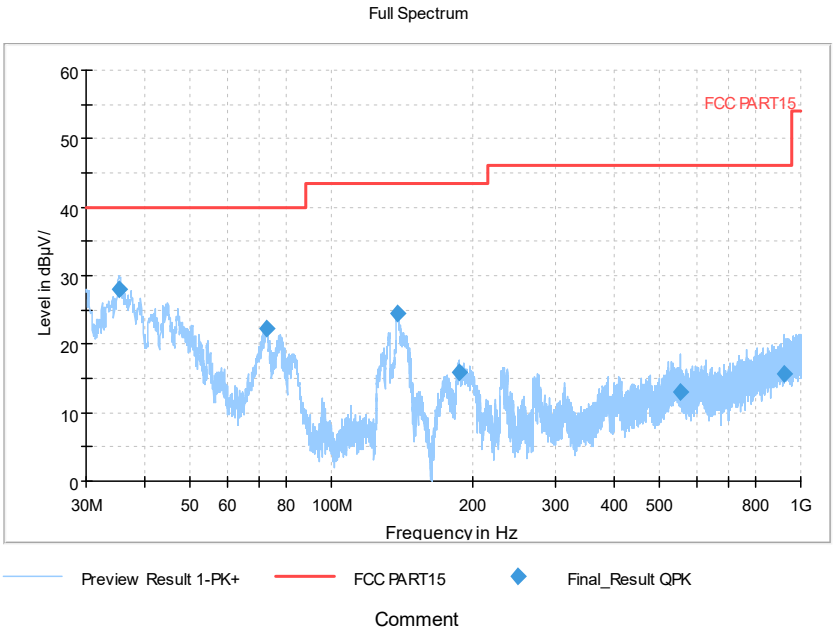

Frequency Range: 1GHz -3GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 6



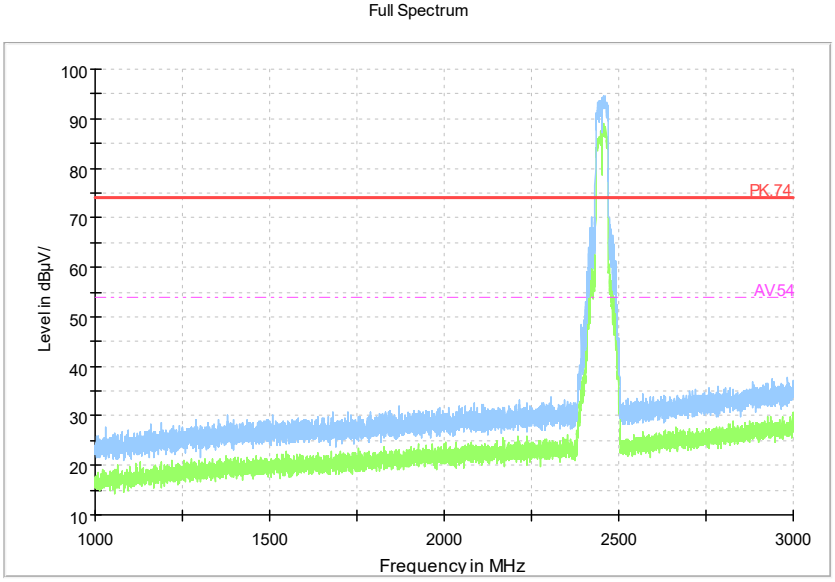

Frequency Range: 3GHz -18GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 6




Frequency Range: 18GHz -26.5GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 6

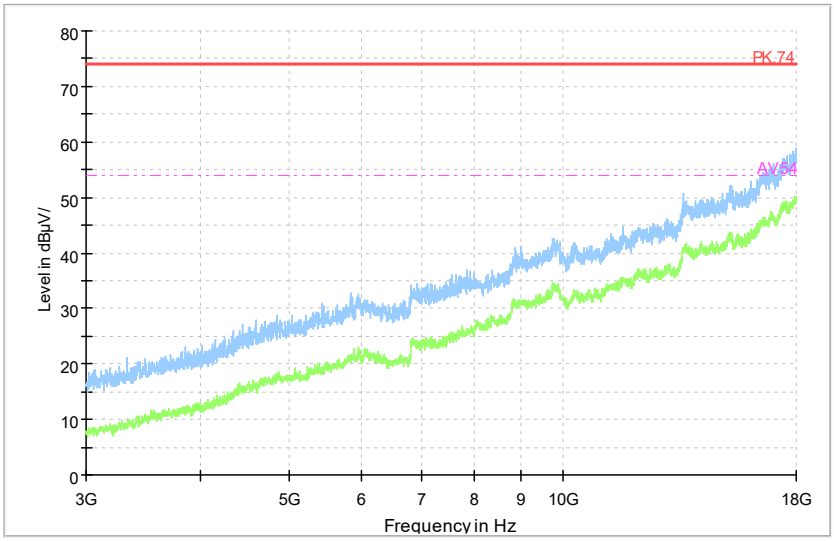



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT40) channel 9



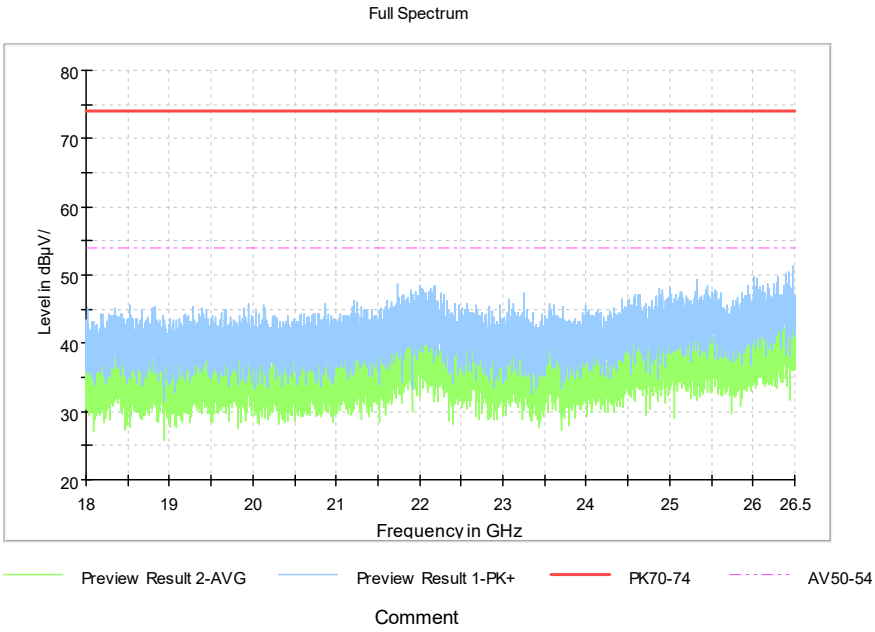

Comment

Frequency Range: 1GHz -3GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 9




Comment

Frequency Range: 3GHz -18GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 9




Frequency Range: 18GHz -26.5GHz
Detector: AV mode and PK mode
Modulation type: 802.11n(HT40) channel 9

# AC Power line Conducted Emission

A “reference path loss” Corr.(dB) is established and the $L_{cable}$+ATT+VDF is the attenuation of ” reference path loss”, and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

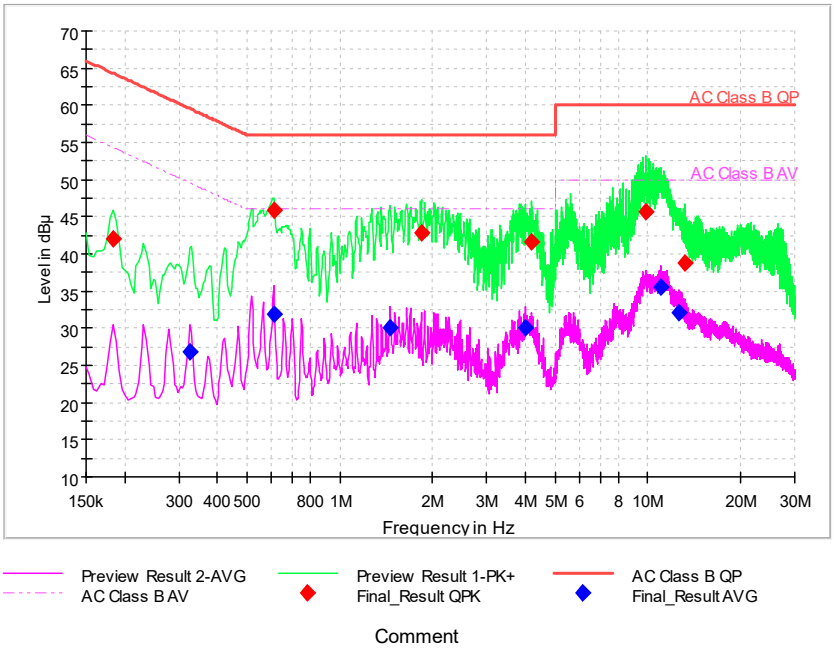
The measurement results are obtained as described below:

$P_{result}=P_{mea}$+ Corr.(dB)

Sample calculation: (41.99 dBμV) = (12.39 dBμV) + (29.6 dB), the corresponding frequency is 0.184114MHz.

Chain0 is selected as the worst case for the test.

The mode of 802.11b Channel 1 is selected for the test of Conducted Emission.




L+N Line

***MEASUREMENT RESULT:***

| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Corr. (dB) | Pmea QuasiPeak (dBμV) | Pmea Average (dBμV) |
|---|---|---|---|---|---|---|---|---|
| 0.184114 | 41.99 | --- | 64.30 | 22.30 | L1 | 29.6 | 12.39 | --- |
| 0.324836 | --- | 26.81 | 49.58 | 22.77 | L1 | 29.6 | --- | -2.79 |
| 0.610543 | --- | 31.87 | 46.00 | 14.13 | L1 | 29.6 | --- | 2.27 |
| 0.614807 | 45.79 | --- | 56.00 | 10.21 | L1 | 29.6 | 16.19 | --- |
| 1.459136 | --- | 30.00 | 46.00 | 16.00 | L1 | 29.7 | --- | 0.3 |
| 1.838657 | 42.75 | --- | 56.00 | 13.25 | L1 | 29.7 | 13.05 | --- |
| 4.013443 | --- | 30.12 | 46.00 | 15.88 | L1 | 29.7 | --- | 0.42 |
| 4.205336 | 41.57 | --- | 56.00 | 14.43 | L1 | 29.7 | 11.87 | --- |
| 9.855514 | 45.63 | --- | 60.00 | 14.37 | L1 | 29.8 | 15.83 | --- |
| 10.981286 | --- | 35.63 | 50.00 | 14.37 | N | 29.8 | --- | 5.83 |
| 12.665679 | --- | 32.14 | 50.00 | 17.86 | N | 29.8 | --- | 2.34 |
| 13.245621 | 38.71 | --- | 60.00 | 21.29 | L1 | 29.8 | 8.91 | --- |

---End of the test report---