

Fig.A.6.1.87 Conducted Spurious Emission (802.11n-HT40, Ch6, 15 GHz-20 GHz)

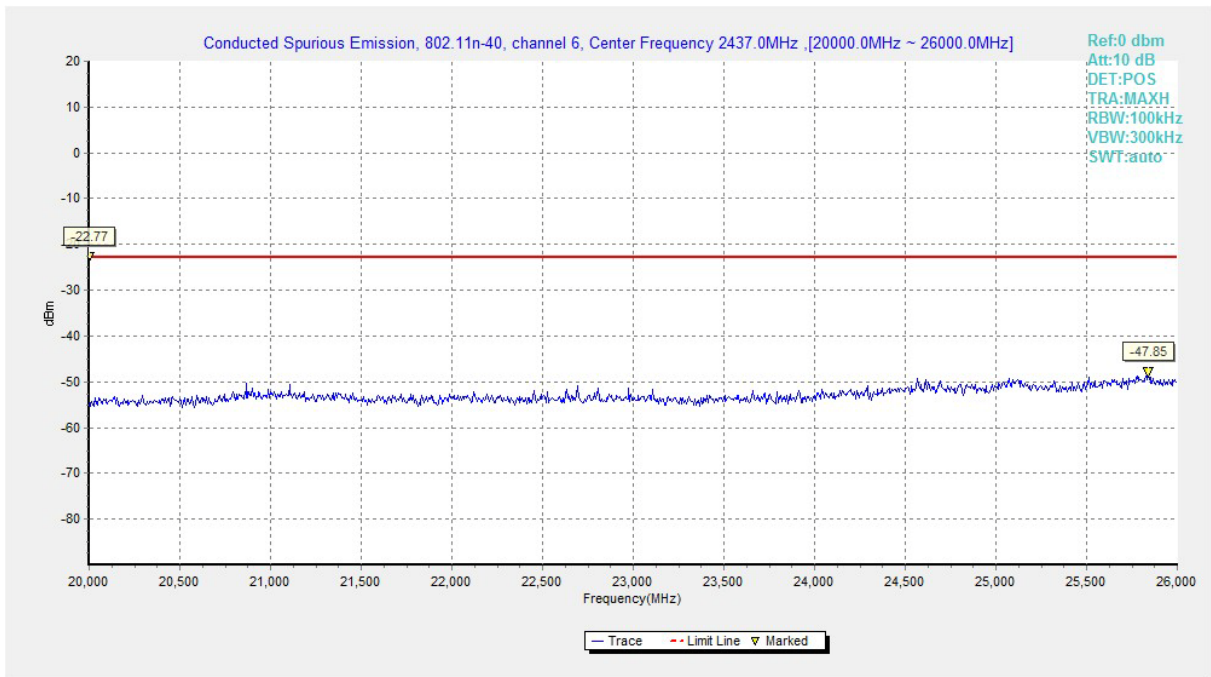


Fig.A.6.1.88 Conducted Spurious Emission (802.11n-HT40, Ch6, 20 GHz-26 GHz)

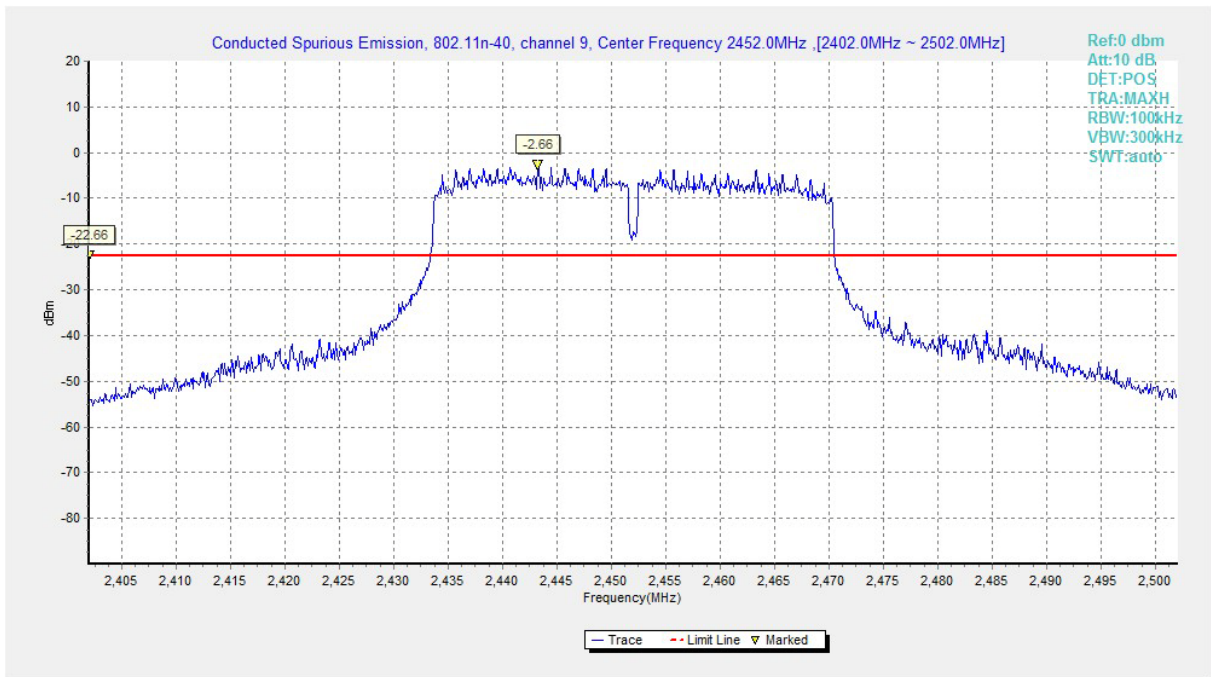


Fig.A.6.1.89 Conducted Spurious Emission (802.11n-HT40, Ch9, Center Frequency)

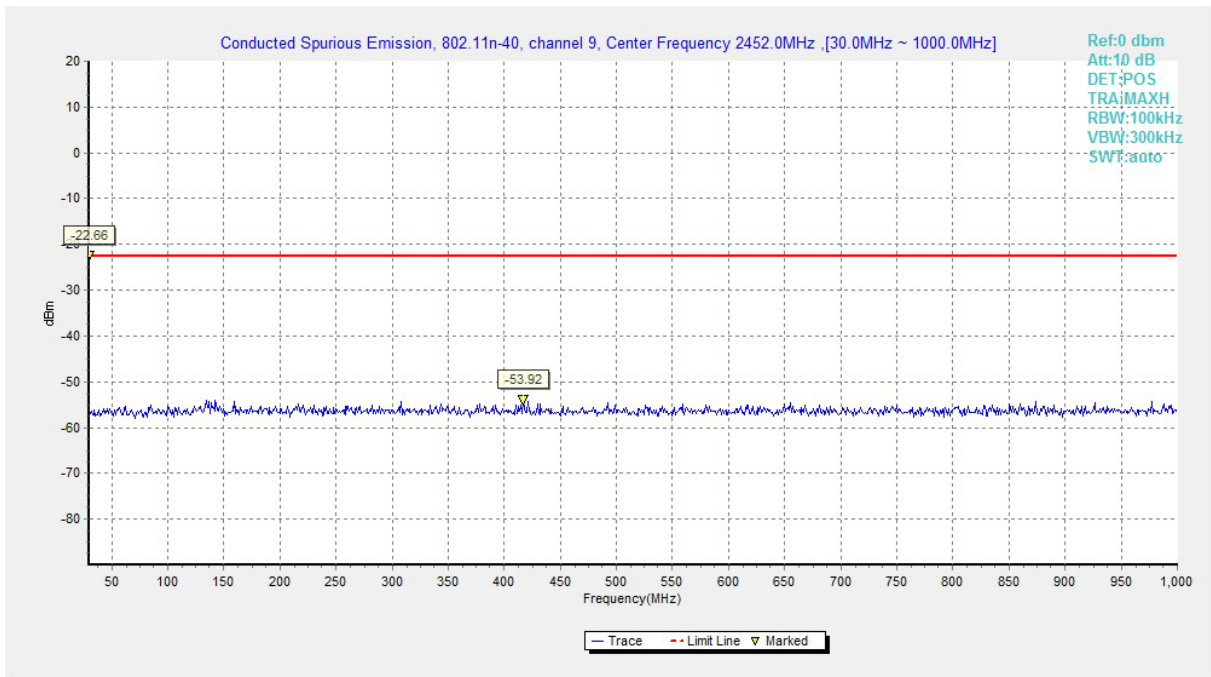


Fig.A.6.1.90 Conducted Spurious Emission (802.11n-HT40, Ch9, 30 MHz-1 GHz)

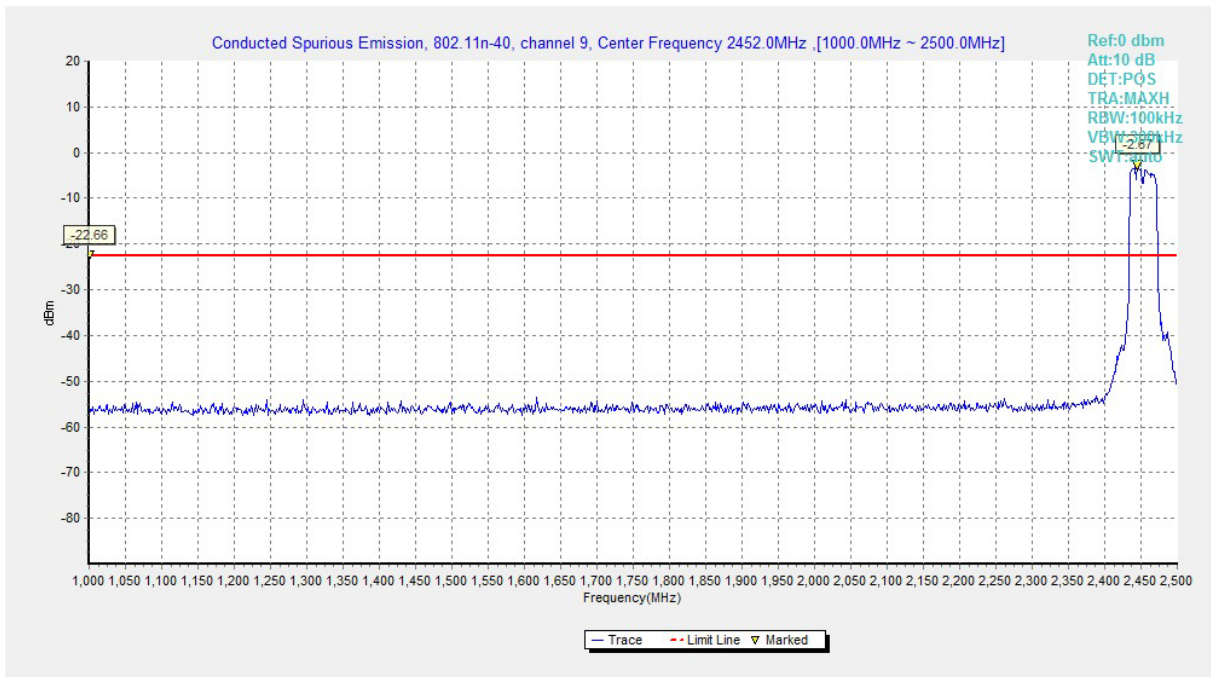


Fig.A.6.1.91 Conducted Spurious Emission (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

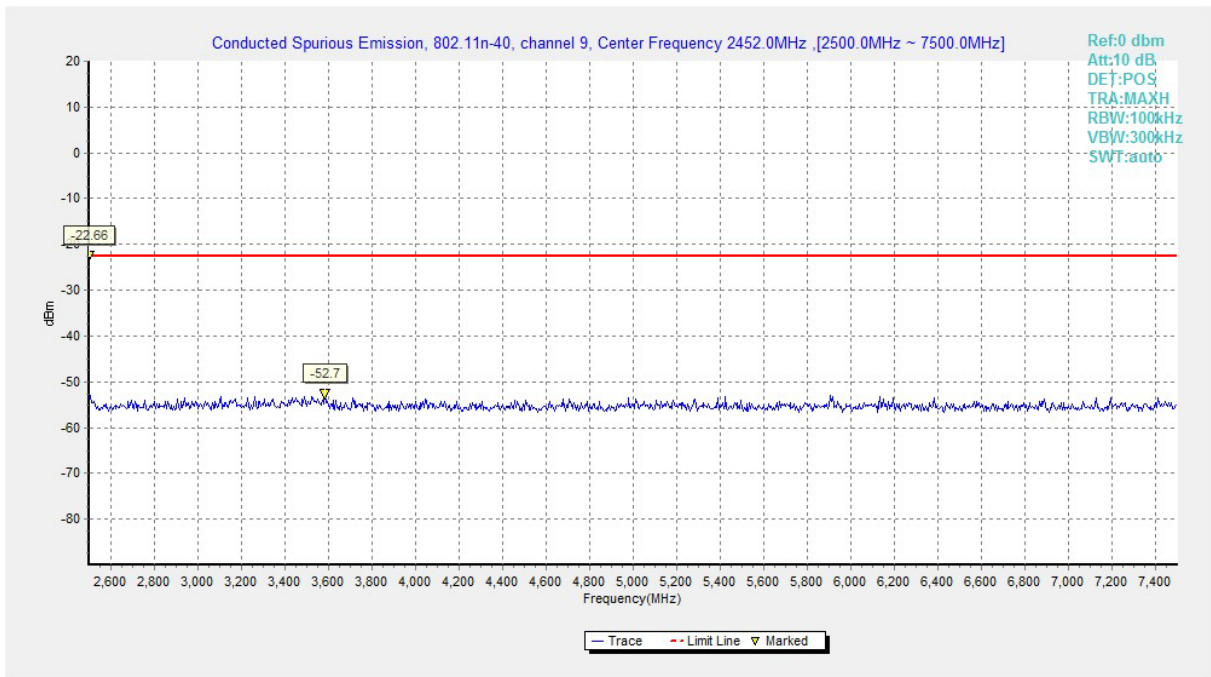


Fig.A.6.1.92 Conducted Spurious Emission (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

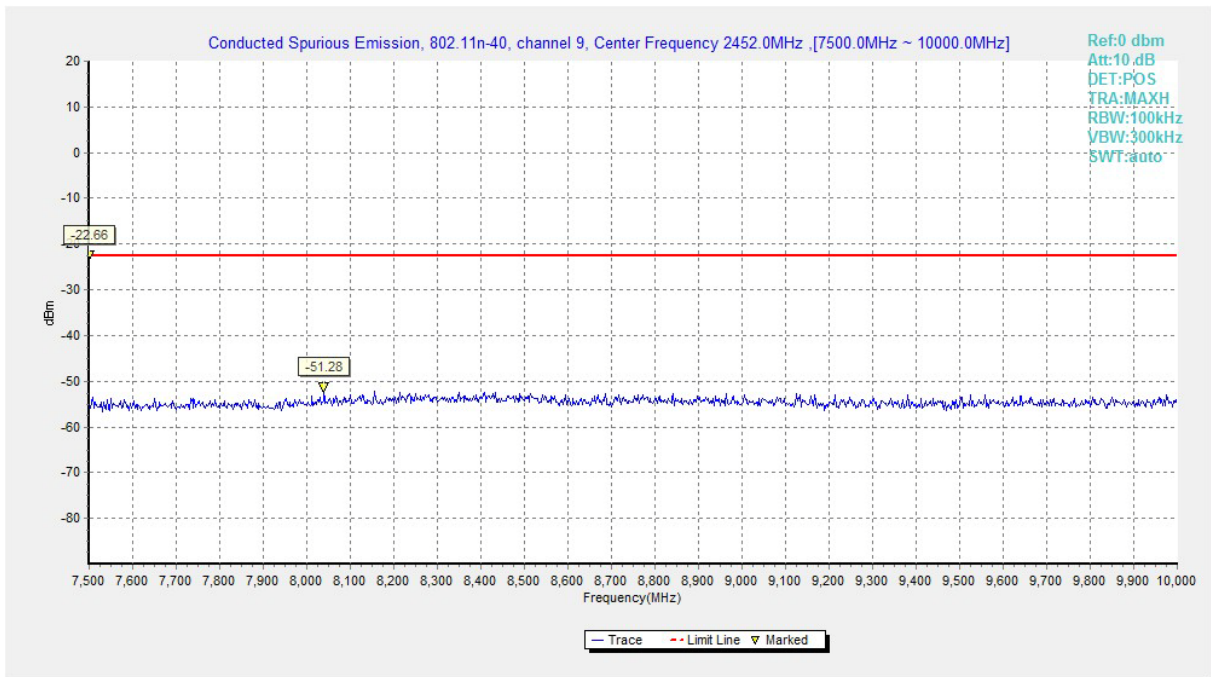


Fig.A.6.1.93 Conducted Spurious Emission (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

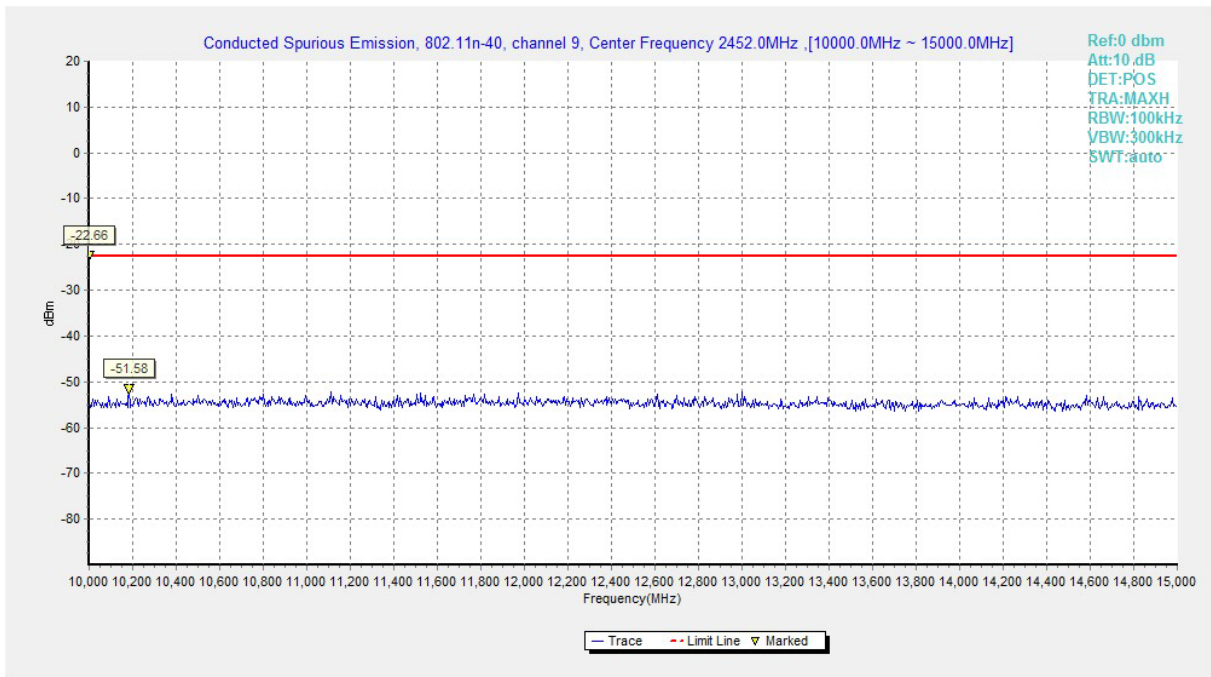


Fig.A.6.1.94 Conducted Spurious Emission (802.11n-HT40, Ch9, 10 GHz-15 GHz)

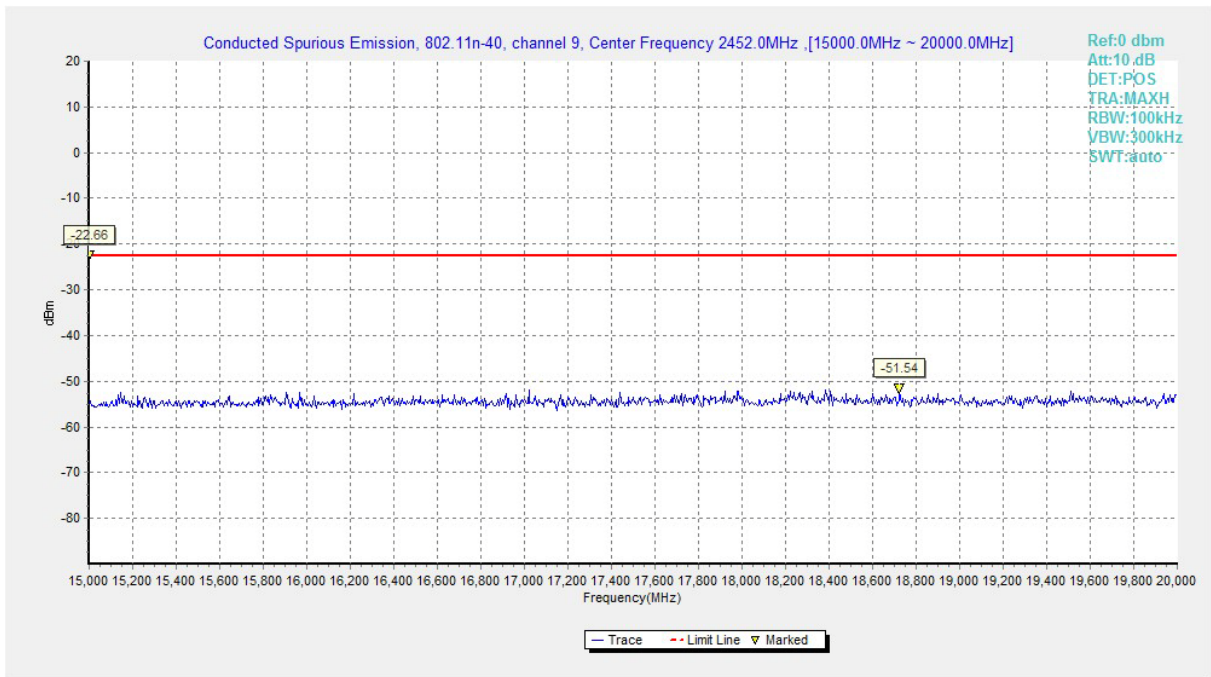


Fig.A.6.1.95 Conducted Spurious Emission (802.11n-HT40, Ch9, 15 GHz-20 GHz)

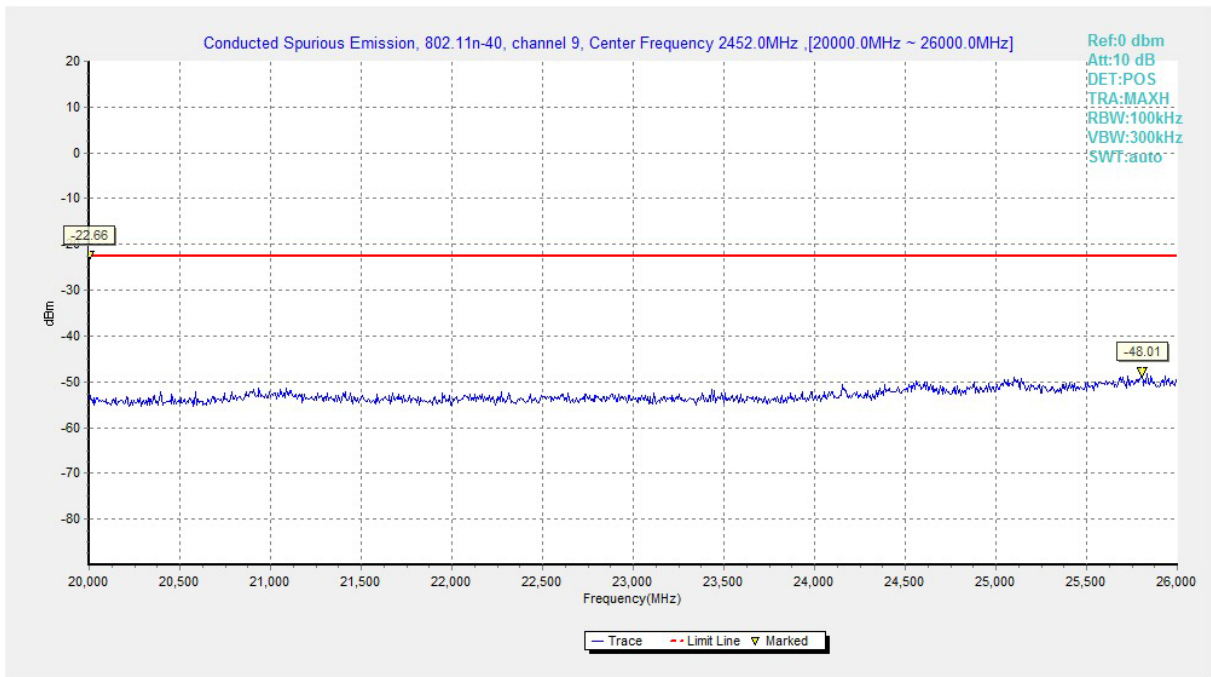


Fig.A.6.1.96 Conducted Spurious Emission (802.11n-HT40, Ch9, 20 GHz-26 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Limit in restricted band:

Measurement Results:

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|------------------|---------|------------------|--------------|------------|
| 802.11b | Power | 2.38GHz ~2.45GHz | Fig.A.6.2.1 | P |
| | 1 | 30 MHz ~1 GHz | Fig.A.6.2.2 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.3 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.4 | P |
| | 6 | 30 MHz ~1 GHz | Fig.A.6.2.5 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.6 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.7 | P |
| | Power | 2.45GHz ~2.5GHz | Fig.A.6.2.8 | P |
| | 11 | 30 MHz ~1 GHz | Fig.A.6.2.9 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.10 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.11 | P |
| 802.11g | Power | 2.38GHz ~2.45GHz | Fig.A.6.2.12 | P |
| | 1 | 30 MHz ~1 GHz | Fig.A.6.2.13 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.14 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.15 | P |
| | 6 | 30 MHz ~1 GHz | Fig.A.6.2.16 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.17 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.18 | P |
| | Power | 2.45GHz~2.5GHz | Fig.A.6.2.19 | P |
| | 11 | 30 MHz ~1 GHz | Fig.A.6.2.20 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.21 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.22 | P |
| 802.11n- HT20 | Power | 2.38GHz ~2.45GHz | Fig.A.6.2.23 | P |
| | 1 | 30 MHz ~1 GHz | Fig.A.6.2.24 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.25 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.26 | P |
| | 6 | 30 MHz ~1 GHz | Fig.A.6.2.27 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.28 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.29 | P |
| | Power | 2.45GHz~2.5GHz | Fig.A.6.2.30 | P |
| | 11 | 30 MHz ~1 GHz | Fig.A.6.2.31 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.32 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.33 | P |
| 802.11n- HT40 | Power | 2.38GHz ~2.45GHz | Fig.A.6.2.34 | P |
| | 3 | 30 MHz ~1 GHz | Fig.A.6.2.35 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.36 | P |

| | | | | |
|--|-------|-----------------|------------------|--------------|
| | 6 | 3 GHz ~ 18 GHz | Fig.A.6.2.37 | P |
| | | 30 MHz ~1 GHz | Fig.A.6.2.38 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.39 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.40 | P |
| | Power | 2.45GHz ~2.5GHz | Fig.A.6.2.41 | P |
| | 9 | 30 MHz ~1 GHz | Fig.A.6.2.42 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.43 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.44 | P |
| | / | All channels | 18 GHz~ 26.5 GHz | Fig.A.6.2.45 |

Conclusion: PASS

Note:

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.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

These recorded emissions around 21GHz are highest noise floor levels since no higher spurious emission is detected.

802.11b

Ch1

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P_{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|--------------------|--------------|
| 2390.000 | 50.2 | -38.8 | 27.7 | 61.300 | HORIZONTAL |
| 17997.000 | 52.5 | -17.7 | 45.6 | 24.600 | VERTICAL |
| 17932.500 | 51.5 | -17.7 | 45.6 | 23.600 | HORIZONTAL |
| 17844.000 | 51.2 | -18.5 | 45.6 | 24.100 | VERTICAL |
| 17821.500 | 51.0 | -18.5 | 45.6 | 23.900 | HORIZONTAL |
| 17827.500 | 50.4 | -18.5 | 45.6 | 23.300 | HORIZONTAL |

Ch6

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P_{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|--------------------|--------------|
| 18000.000 | 52.3 | -45.6 | 44.5 | 53.366 | HORIZONTAL |
| 17832.000 | 51.0 | -18.5 | 45.6 | 23.900 | VERTICAL |
| 17895.000 | 50.9 | -18.5 | 45.6 | 23.800 | VERTICAL |
| 17770.500 | 50.8 | -18.5 | 45.6 | 23.700 | HORIZONTAL |
| 17880.000 | 50.4 | -18.5 | 45.6 | 23.300 | VERTICAL |
| 17764.500 | 50.4 | -18.5 | 45.6 | 23.300 | VERTICAL |

Ch11

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.555 | 50.3 | -38.9 | 27.7 | 61.500 | VERTICAL |
| 17850.000 | 51.0 | -18.5 | 45.6 | 23.900 | HORIZONTAL |
| 17998.500 | 50.9 | -17.7 | 45.6 | 23.000 | HORIZONTAL |
| 17866.500 | 50.5 | -18.5 | 45.6 | 23.400 | VERTICAL |
| 17875.500 | 50.0 | -18.5 | 45.6 | 22.900 | VERTICAL |
| 17862.000 | 49.9 | -18.5 | 45.6 | 22.800 | HORIZONTAL |

802.11g

Ch1

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2389.995 | 59.2 | -38.8 | 27.7 | 70.300 | HORIZONTAL |
| 18000.000 | 51.0 | -45.6 | 44.5 | 52.066 | VERTICAL |
| 17823.000 | 50.2 | -18.5 | 45.6 | 23.100 | HORIZONTAL |
| 17829.000 | 50.1 | -18.5 | 45.6 | 23.000 | VERTICAL |
| 17773.500 | 49.8 | -18.5 | 45.6 | 22.700 | VERTICAL |
| 17830.500 | 49.5 | -18.5 | 45.6 | 22.400 | VERTICAL |

Ch6

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17998.500 | 52.8 | -17.7 | 45.6 | 24.900 | HORIZONTAL |
| 17874.000 | 50.2 | -18.5 | 45.6 | 23.100 | VERTICAL |
| 17632.500 | 50.1 | -18.9 | 45.6 | 23.400 | VERTICAL |
| 17898.000 | 49.8 | -18.5 | 45.6 | 22.700 | HORIZONTAL |
| 17905.500 | 49.6 | -18.5 | 45.6 | 22.500 | VERTICAL |
| 17733.000 | 49.2 | -18.9 | 45.6 | 22.500 | HORIZONTAL |

Ch11

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.545 | 63.4 | -38.9 | 27.7 | 74.600 | HORIZONTAL |
| 17997.000 | 52.9 | -17.7 | 45.6 | 25.000 | HORIZONTAL |
| 17767.500 | 52.6 | -18.5 | 45.6 | 25.500 | VERTICAL |
| 17884.500 | 52.5 | -18.5 | 45.6 | 25.400 | VERTICAL |
| 17866.500 | 50.2 | -18.5 | 45.6 | 23.100 | VERTICAL |
| 17719.500 | 49.5 | -18.9 | 45.6 | 22.800 | VERTICAL |

802.11n-HT20

Ch1

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2389.780 | 51.7 | -38.8 | 27.7 | 62.800 | VERTICAL |
| 17997.000 | 53.1 | -17.7 | 45.6 | 25.200 | VERTICAL |
| 17860.500 | 50.5 | -18.5 | 45.6 | 23.400 | HORIZONTAL |
| 17902.500 | 50.3 | -18.5 | 45.6 | 23.200 | VERTICAL |
| 17824.500 | 50.3 | -18.5 | 45.6 | 23.200 | VERTICAL |
| 17995.500 | 50.0 | -17.7 | 45.6 | 22.100 | VERTICAL |

Ch6

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 18000.000 | 51.2 | -45.6 | 44.5 | 52.266 | VERTICAL |
| 17874.000 | 51.2 | -18.5 | 45.6 | 24.100 | HORIZONTAL |
| 17857.500 | 50.5 | -18.5 | 45.6 | 23.400 | VERTICAL |
| 17820.000 | 50.4 | -18.5 | 45.6 | 23.300 | HORIZONTAL |
| 17764.500 | 50.3 | -18.5 | 45.6 | 23.200 | VERTICAL |
| 17865.000 | 49.7 | -18.5 | 45.6 | 22.600 | HORIZONTAL |

Ch11

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2484.280 | 65.0 | -38.9 | 27.7 | 76.200 | VERTICAL |
| 17998.500 | 56.3 | -17.7 | 45.6 | 28.400 | HORIZONTAL |
| 17874.000 | 51.2 | -18.5 | 45.6 | 24.100 | HORIZONTAL |
| 17737.500 | 50.8 | -18.5 | 45.6 | 23.700 | VERTICAL |
| 17746.500 | 50.3 | -18.5 | 45.6 | 23.200 | VERTICAL |
| 17820.000 | 49.8 | -18.5 | 45.6 | 22.700 | VERTICAL |

802.11n-HT40

Ch3

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2389.890 | 62.1 | -38.8 | 27.7 | 73.200 | VERTICAL |
| 17844.000 | 51.0 | -18.5 | 45.6 | 23.900 | HORIZONTAL |
| 17998.500 | 50.2 | -17.7 | 45.6 | 22.300 | VERTICAL |
| 17901.000 | 49.6 | -18.5 | 45.6 | 22.500 | VERTICAL |
| 17851.500 | 49.5 | -18.5 | 45.6 | 22.400 | HORIZONTAL |
| 17806.500 | 48.9 | -18.5 | 45.6 | 21.800 | HORIZONTAL |

Ch6

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 18000.000 | 52.0 | -45.6 | 44.5 | 53.066 | VERTICAL |
| 17808.000 | 51.0 | -18.5 | 45.6 | 23.900 | VERTICAL |
| 17830.500 | 50.3 | -18.5 | 45.6 | 23.200 | HORIZONTAL |
| 17773.500 | 49.8 | -18.5 | 45.6 | 22.700 | VERTICAL |
| 17818.500 | 49.6 | -18.5 | 45.6 | 22.500 | HORIZONTAL |
| 17890.500 | 49.6 | -18.5 | 45.6 | 22.500 | HORIZONTAL |

Ch9

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2484.275 | 69.4 | -38.9 | 27.7 | 80.600 | VERTICAL |
| 17874.000 | 50.4 | -18.5 | 45.6 | 23.300 | HORIZONTAL |
| 17997.000 | 49.9 | -17.7 | 45.6 | 22.000 | VERTICAL |
| 17914.500 | 49.3 | -17.7 | 45.6 | 21.400 | HORIZONTAL |
| 17920.500 | 49.2 | -17.7 | 45.6 | 21.300 | VERTICAL |
| 17979.000 | 49.1 | -17.7 | 45.6 | 21.200 | HORIZONTAL |

Test graphs as below:

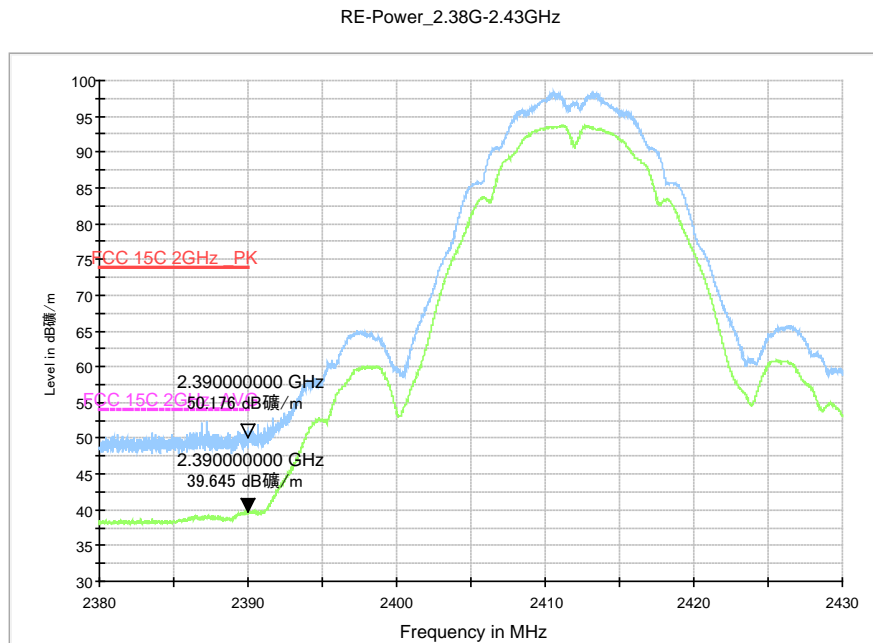


Fig.A.6.2.1 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

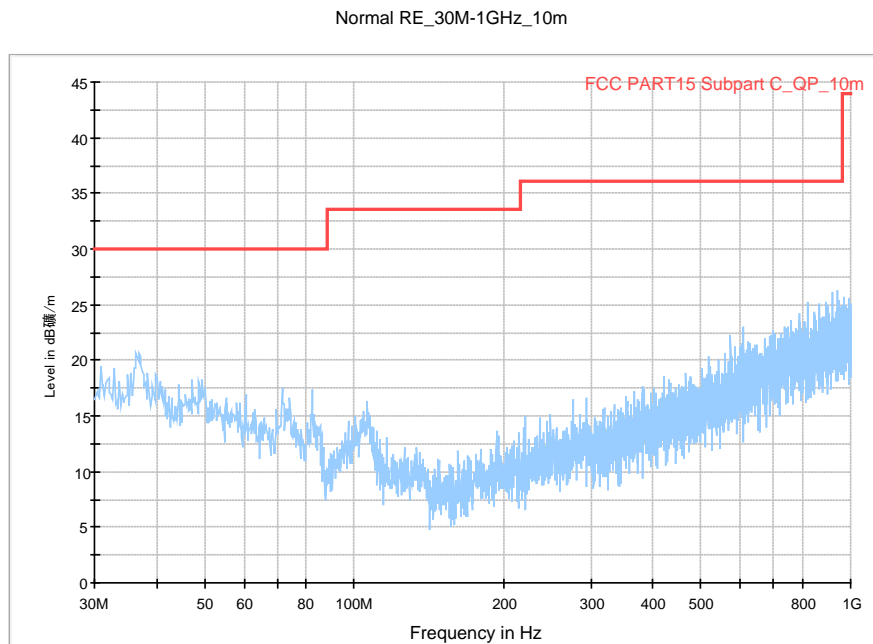


Fig.A.6.2.2 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)

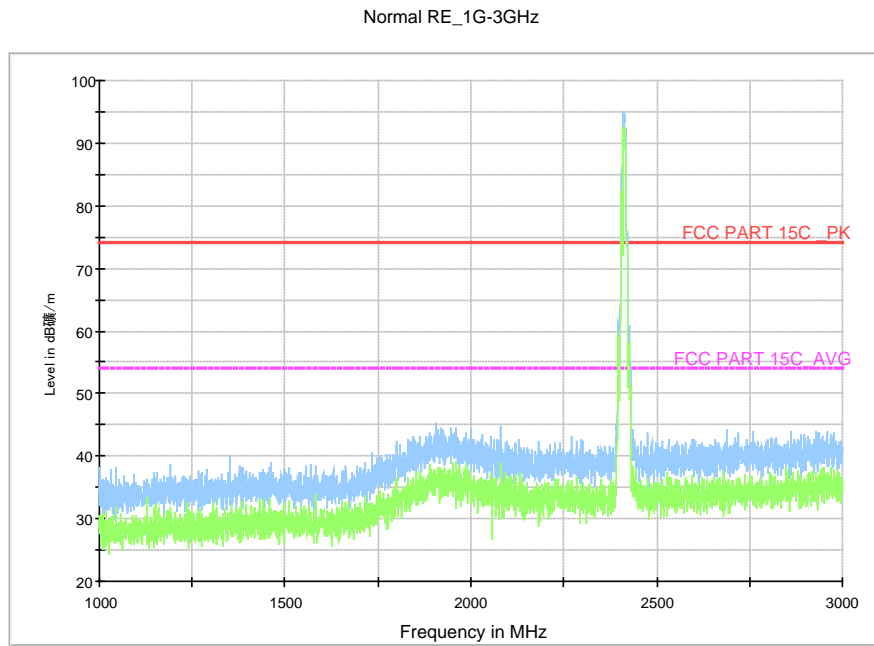


Fig.A.6.2.3 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)

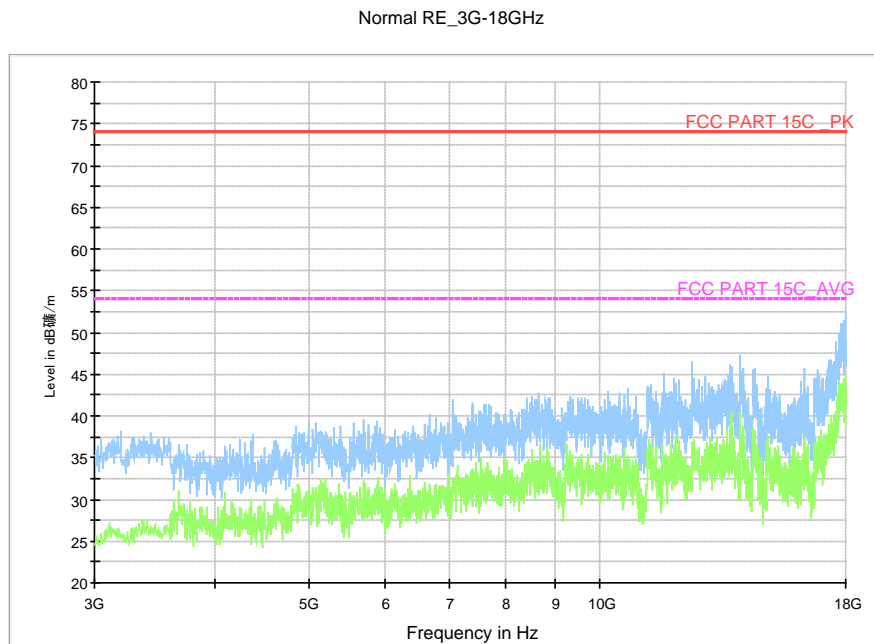


Fig.A.6.2.4 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)

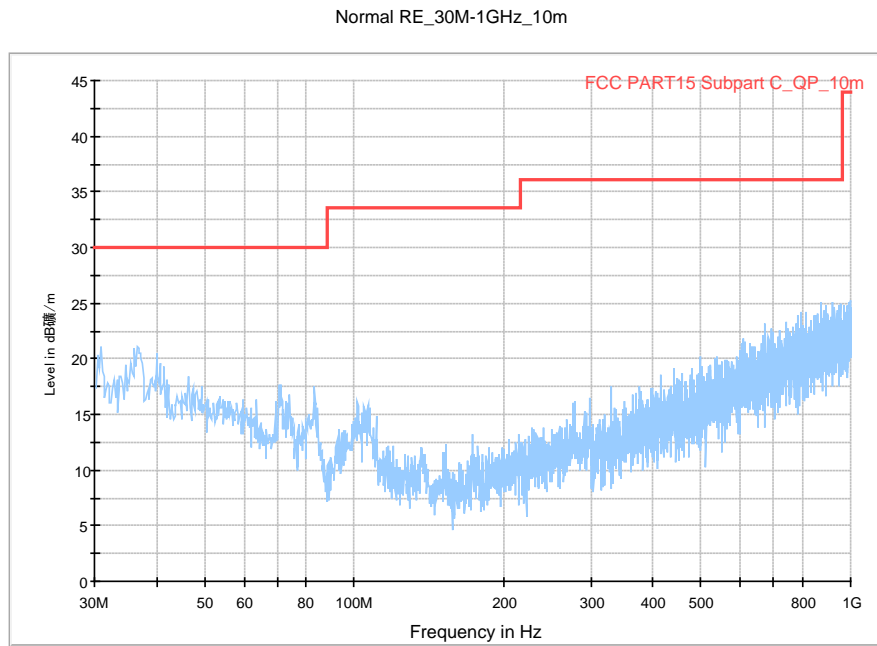


Fig.A.6.2.5 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

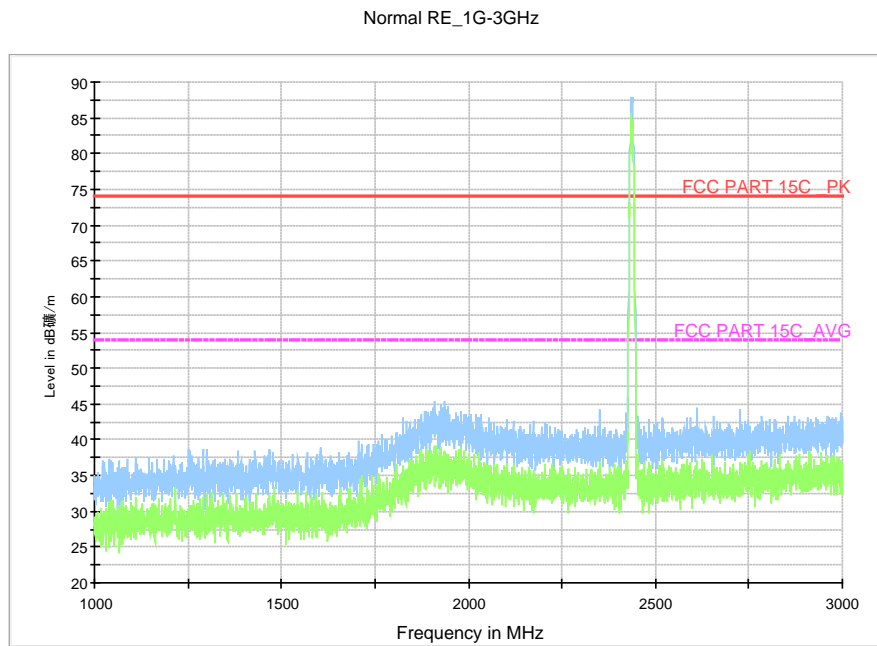


Fig.A.6.2.6 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)

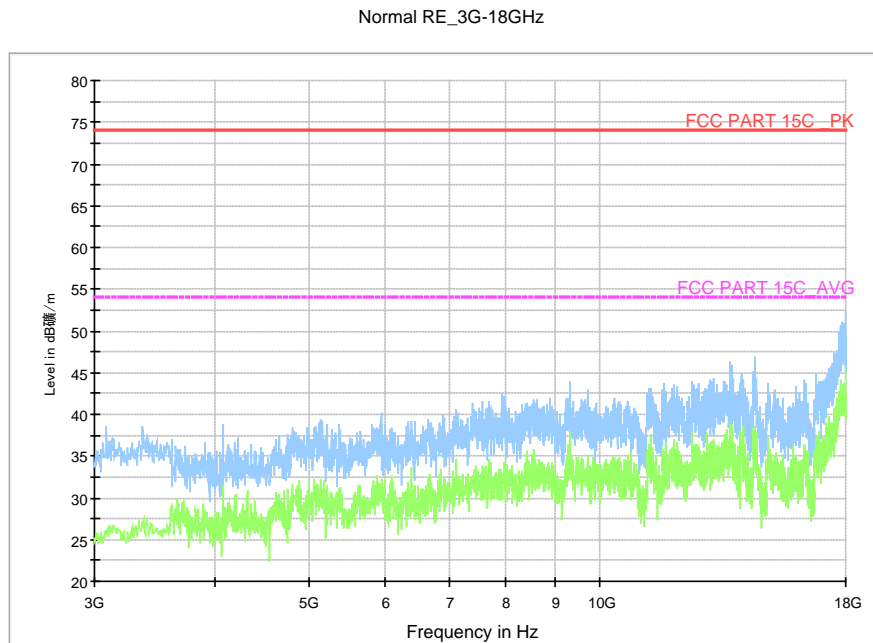


Fig.A.6.2.7 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

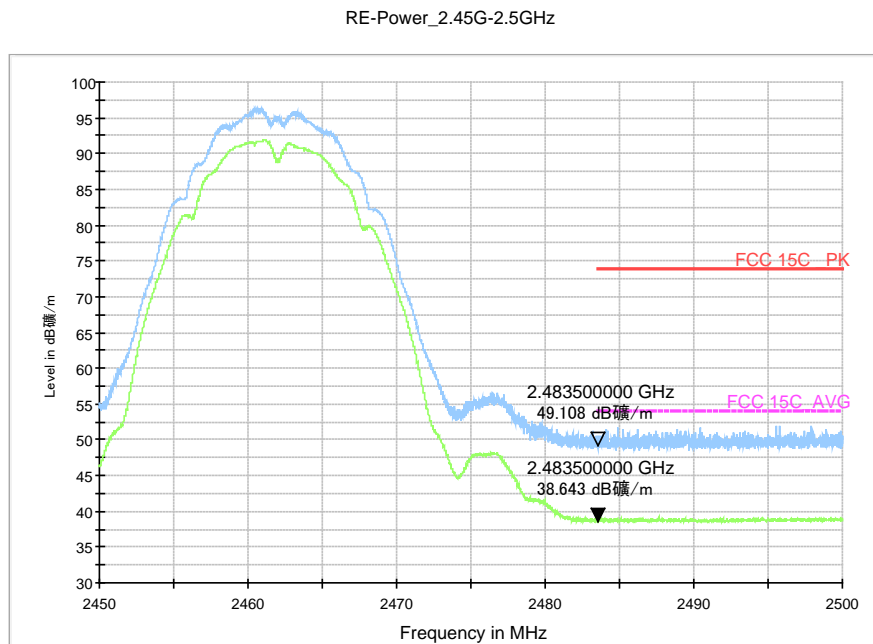


Fig.A.6.2.8 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

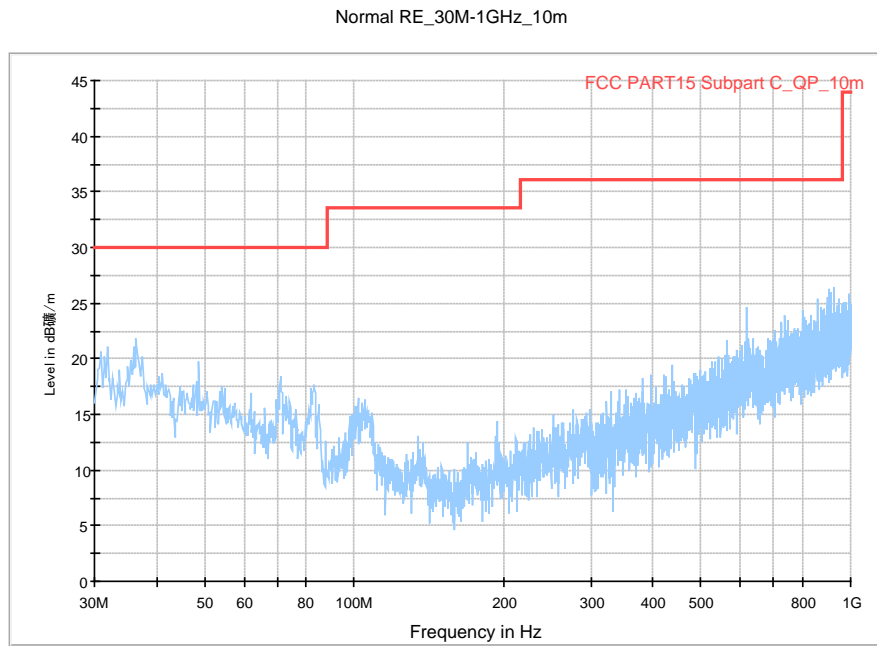


Fig.A.6.2.9 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)

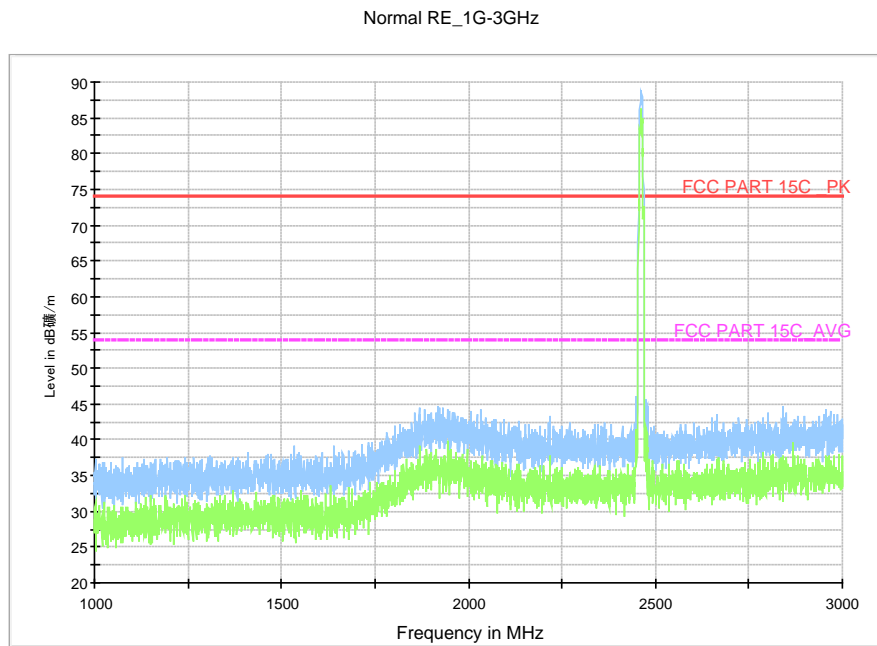


Fig.A.6.2.10 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)

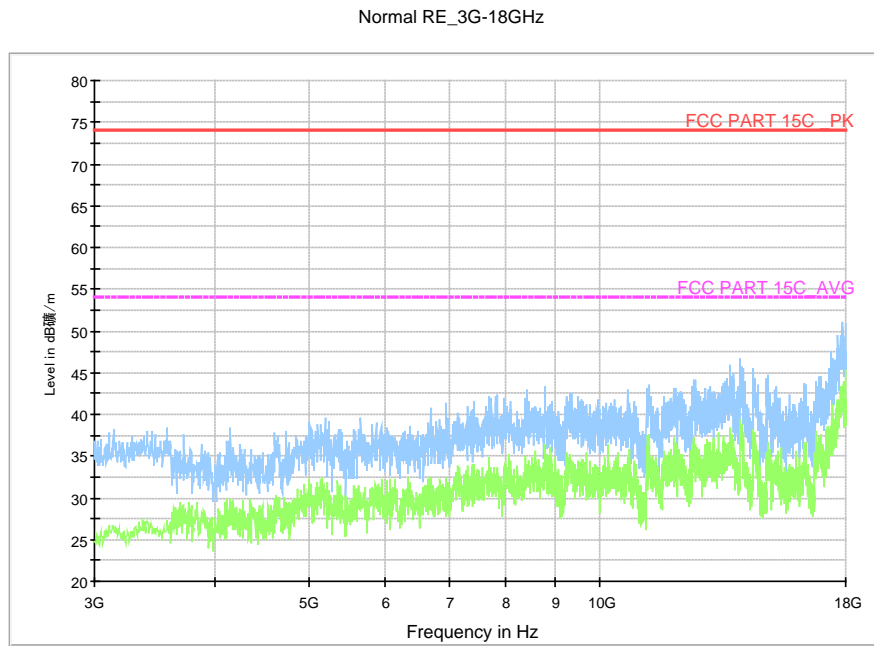


Fig.A.6.2.11 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

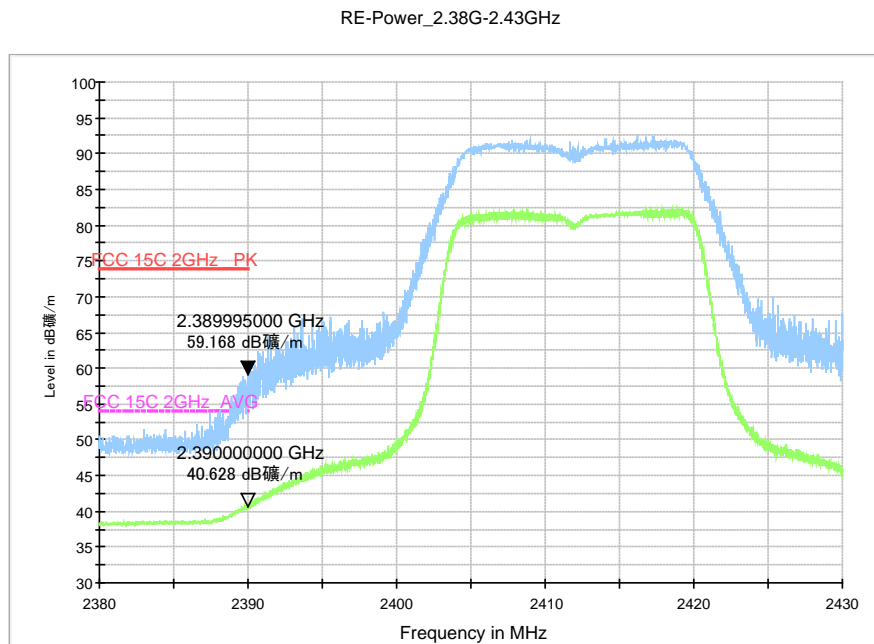


Fig.A.6.2.12 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

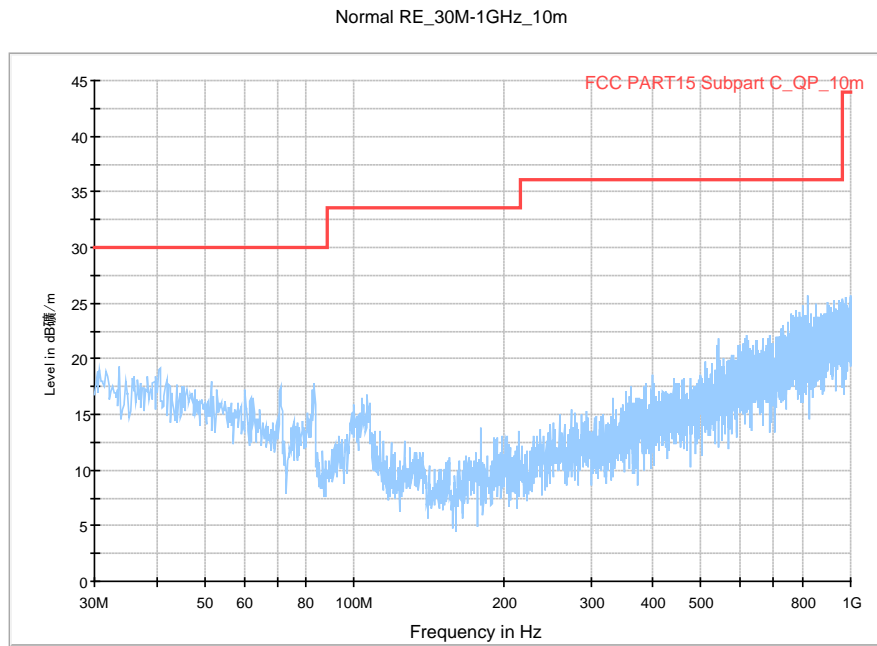


Fig.A.6.2.13 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)

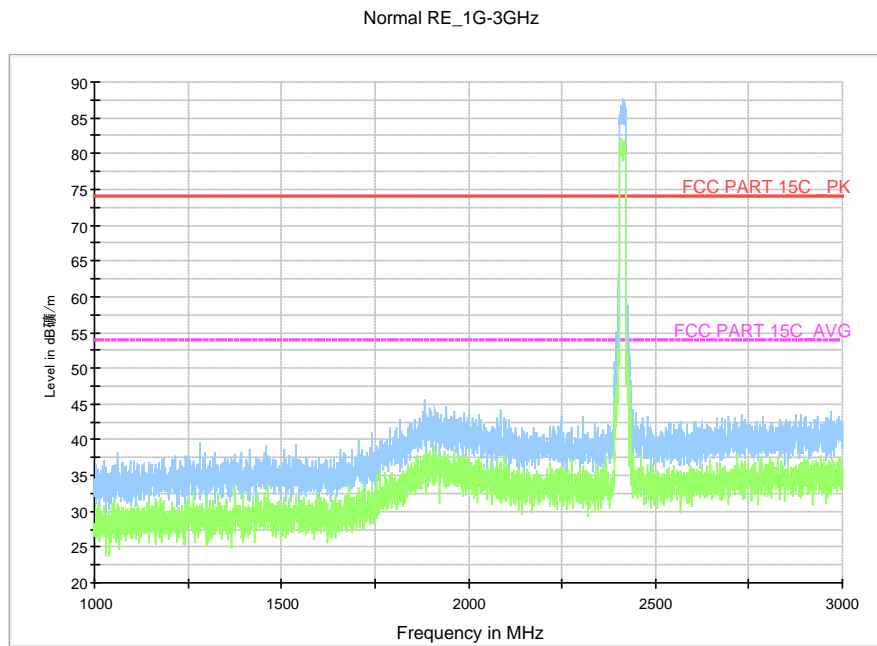


Fig.A.6.2.14 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)

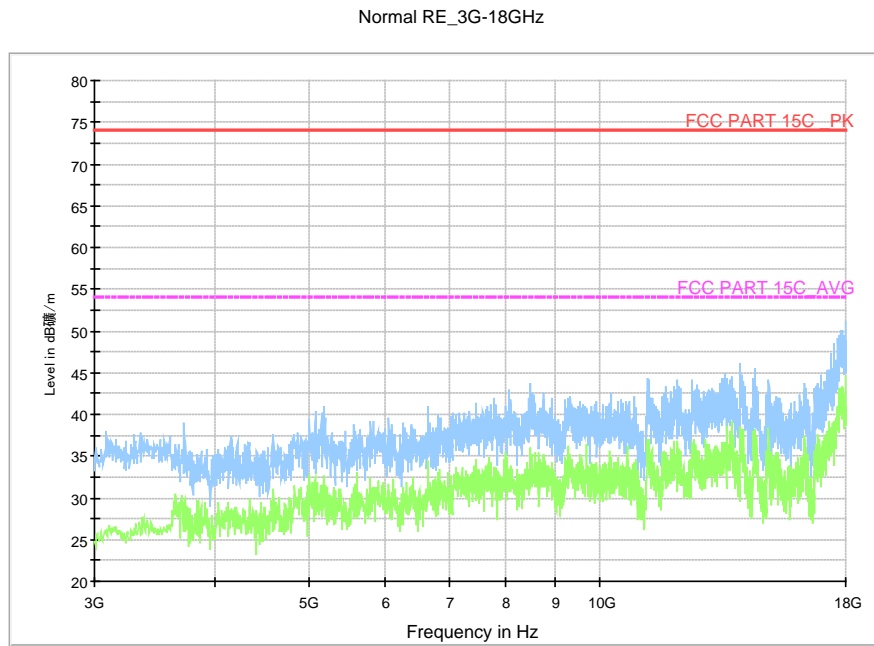


Fig.A.6.2.15 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

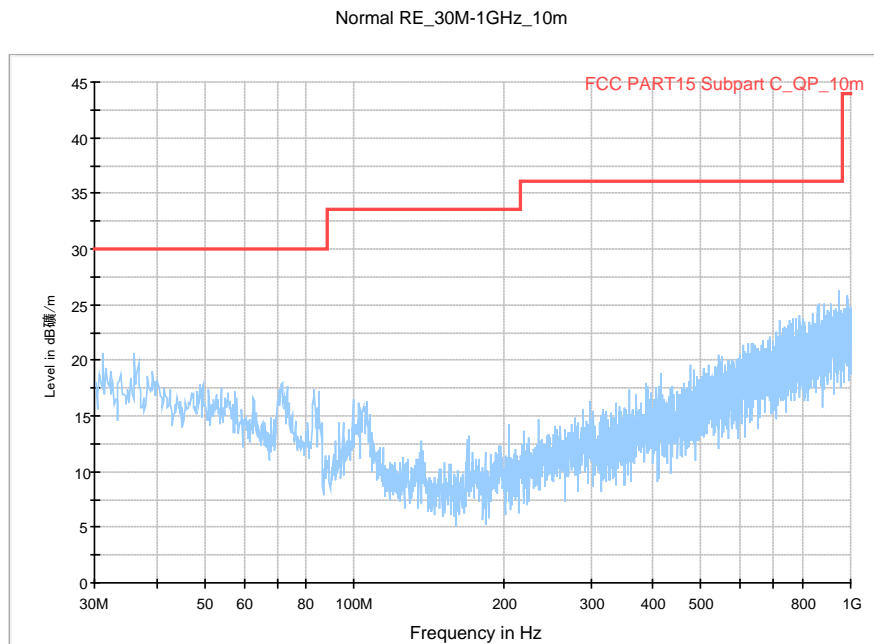


Fig.A.6.2.16 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

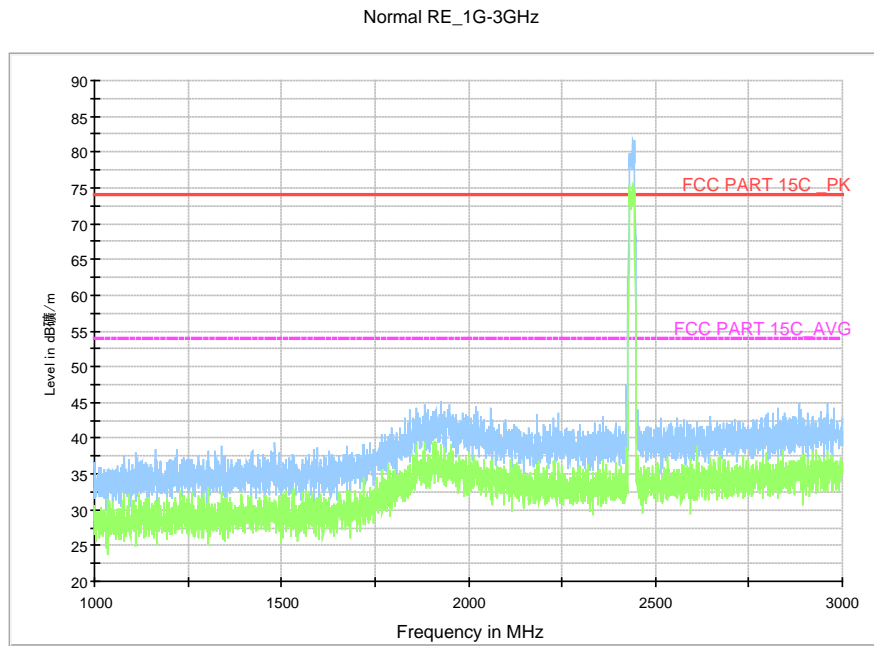


Fig.A.6.2.17 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)

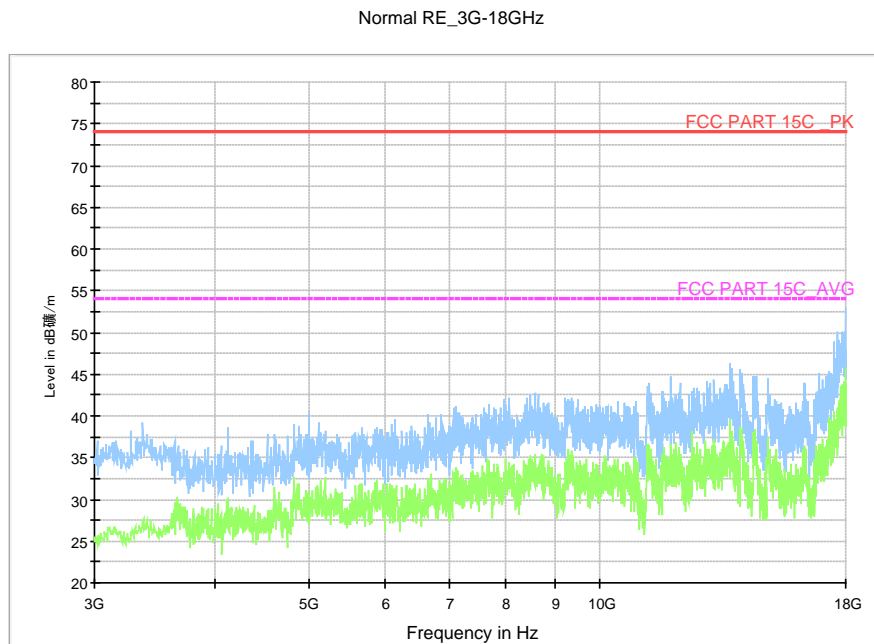


Fig.A.6.2.18 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

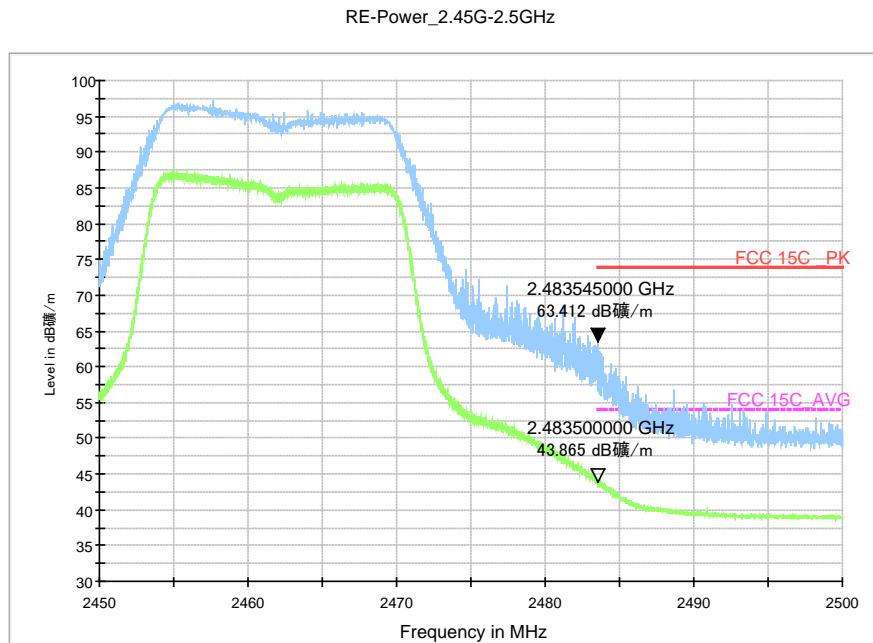


Fig.A.6.2.19 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

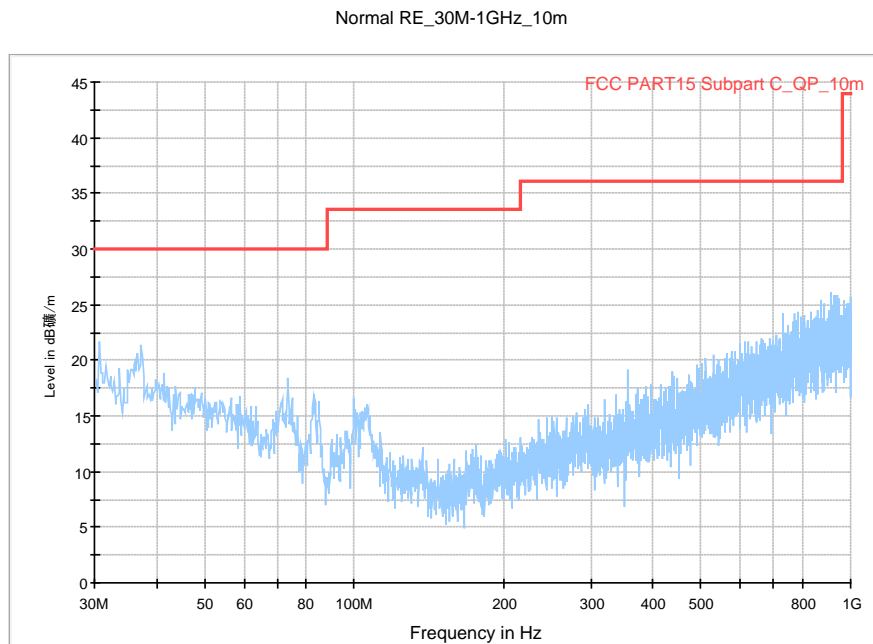


Fig.A.6.2.20 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)

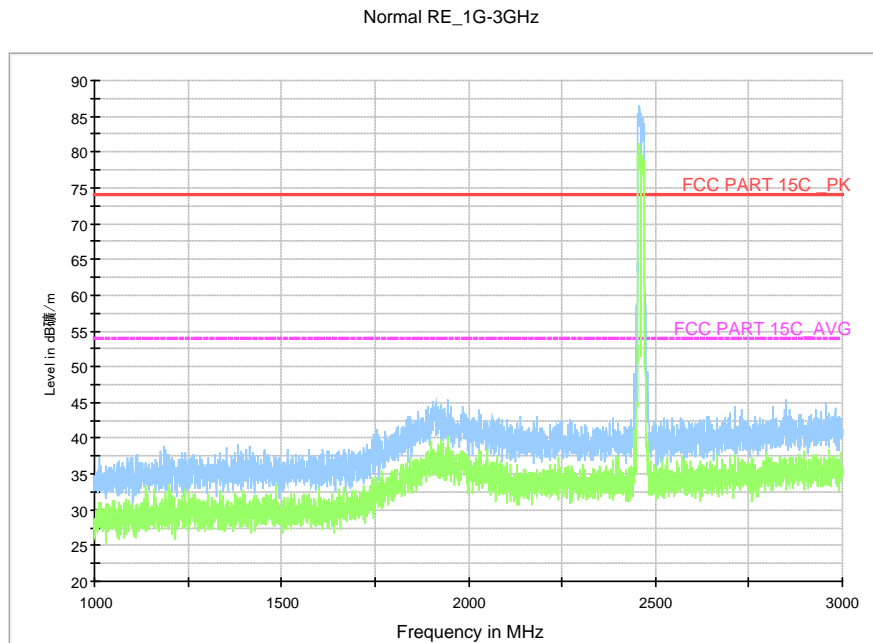


Fig.A.6.2.21 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)

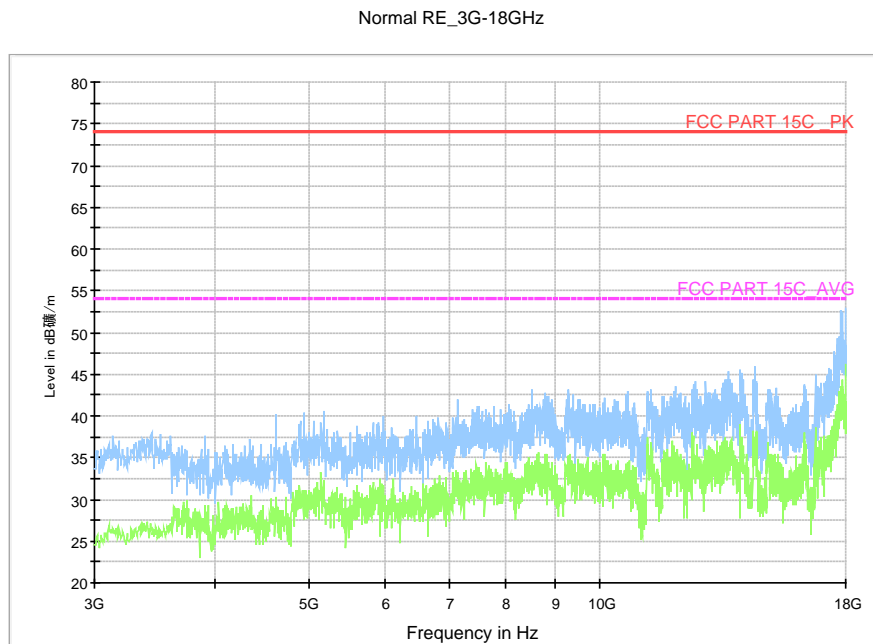


Fig.A.6.2.22 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

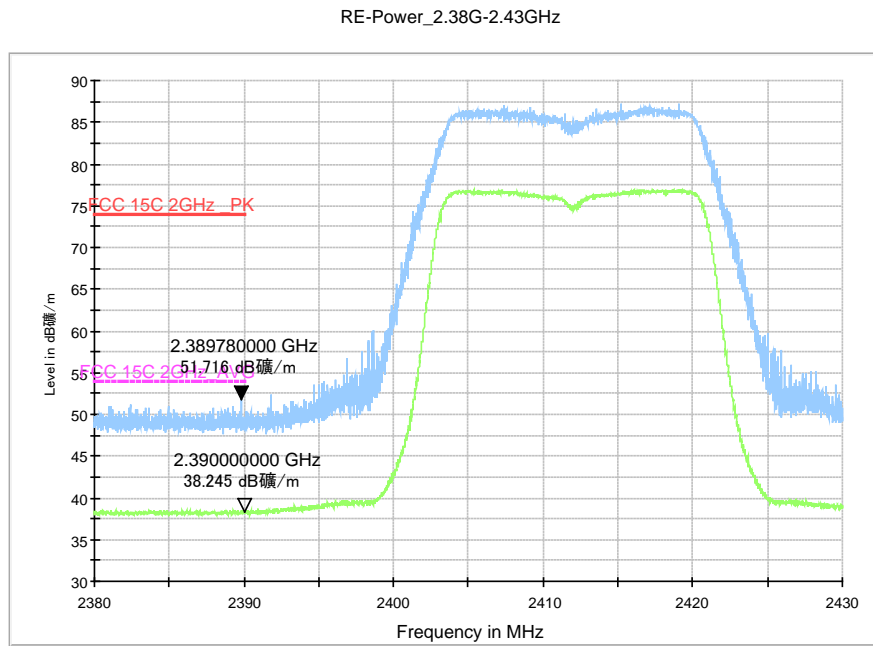


Fig.A.6.2.23 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

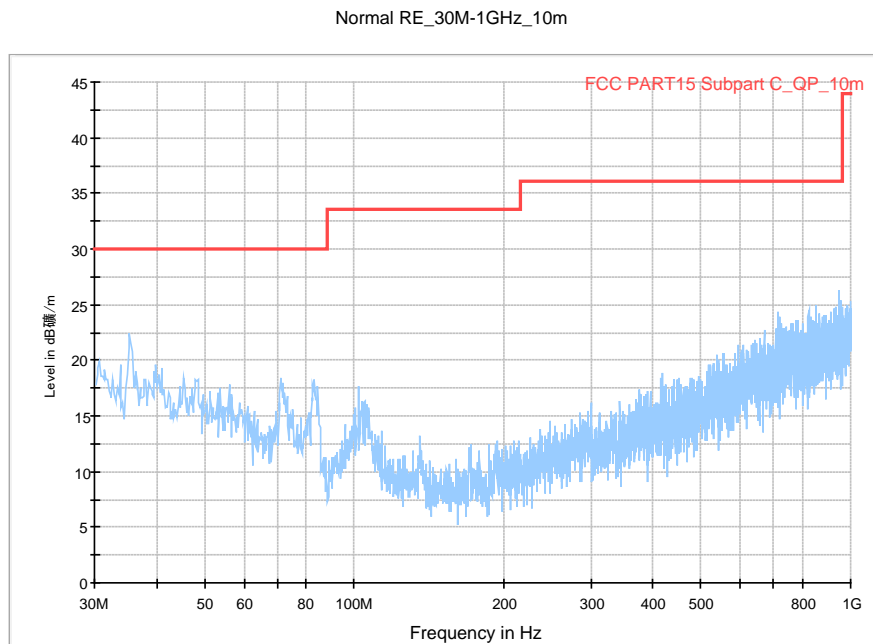


Fig.A.6.2.24 Radiated Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)

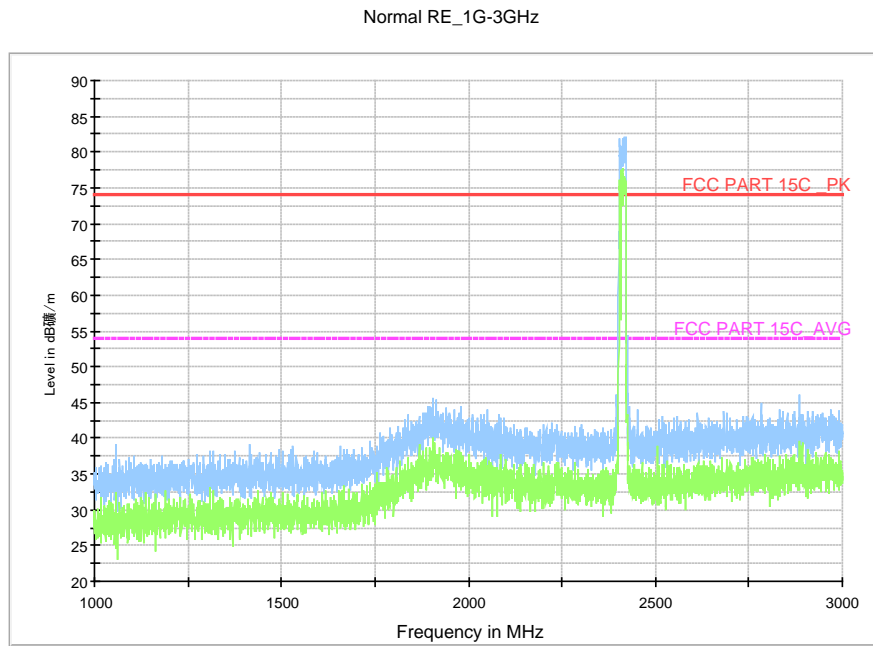


Fig.A.6.2.25 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)

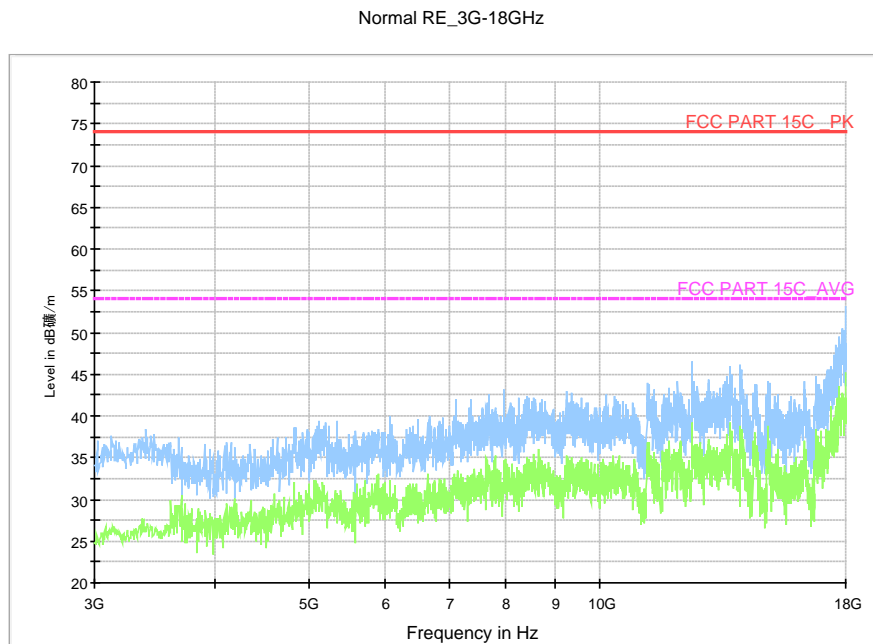


Fig.A.6.2.26 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)

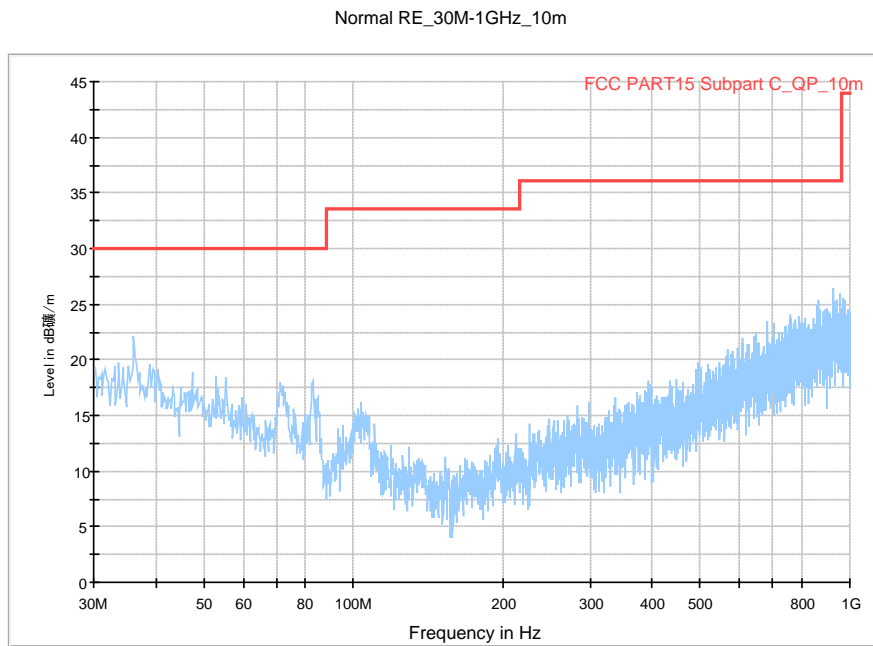


Fig.A.6.2.27 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

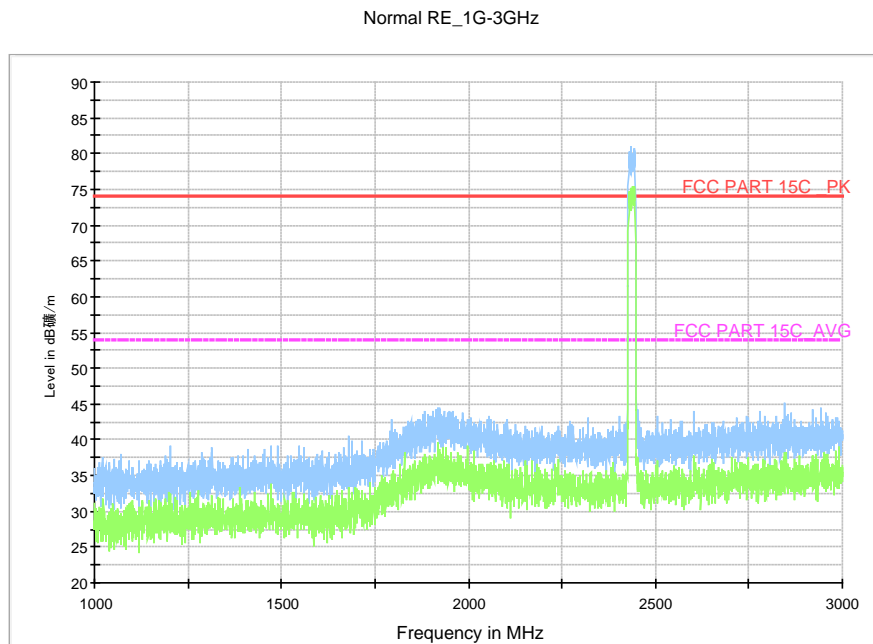


Fig.A.6.2.28 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)

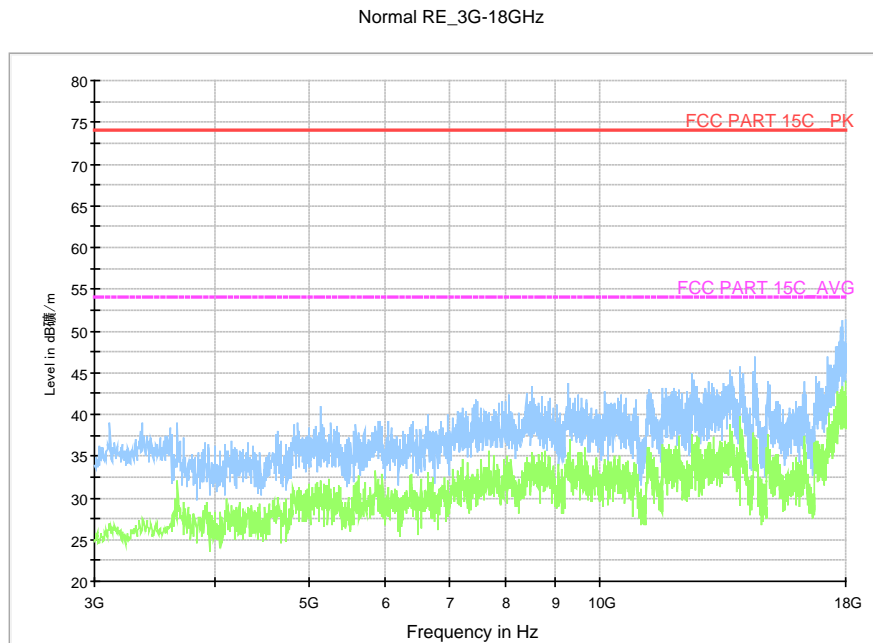


Fig.A.6.2.29 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)

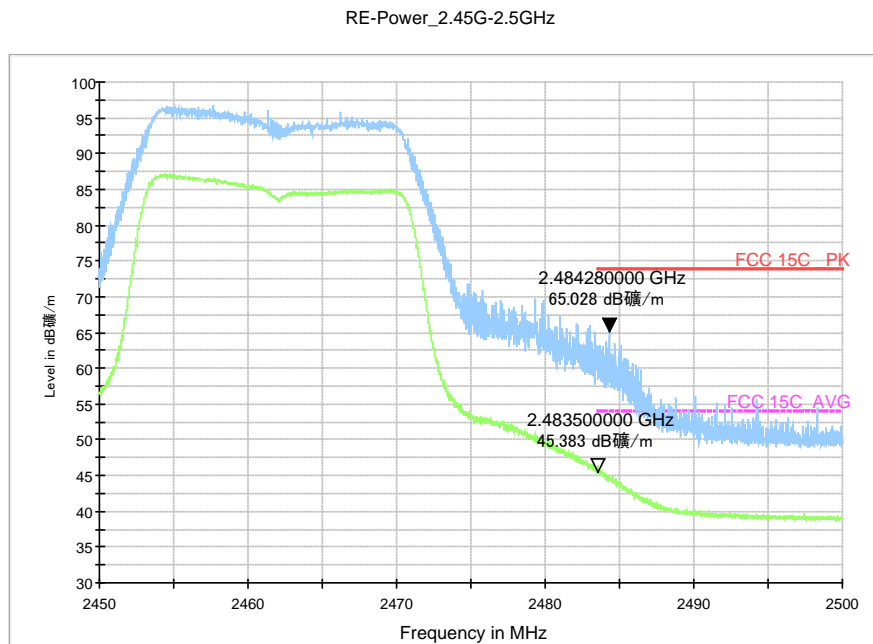


Fig.A.6.2.30 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

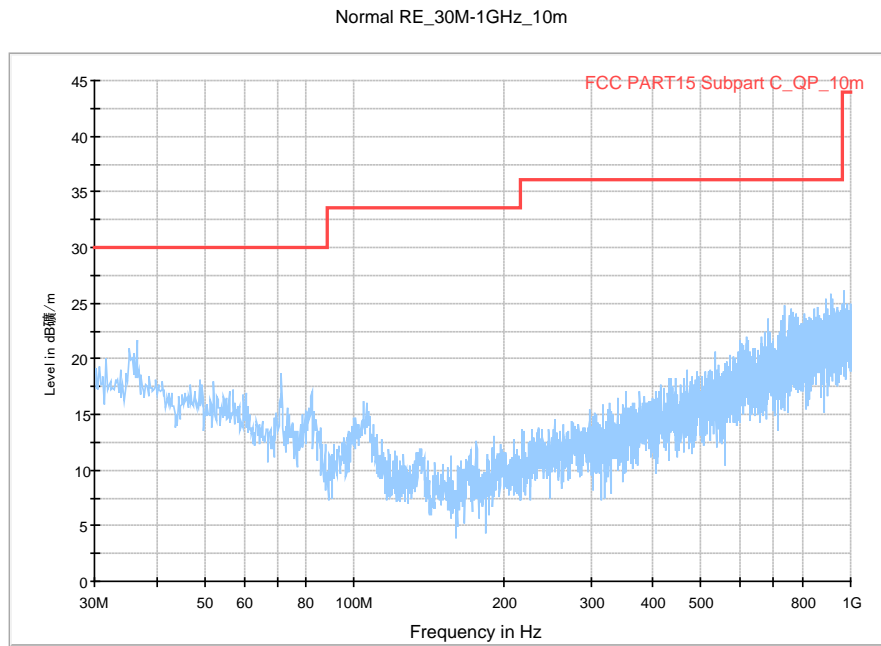


Fig.A.6.2.31 Radiated Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)

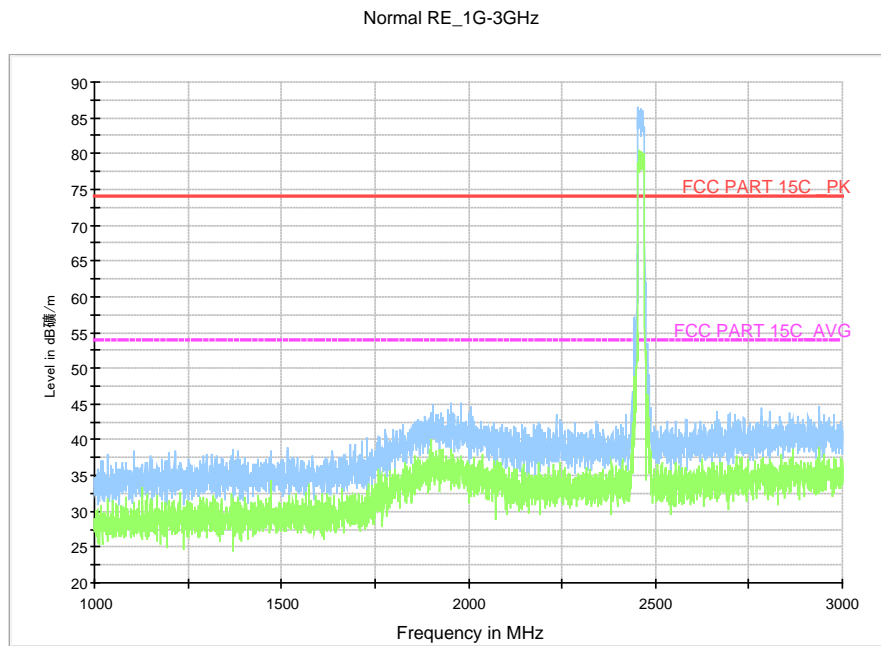


Fig.A.6.2.32 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)

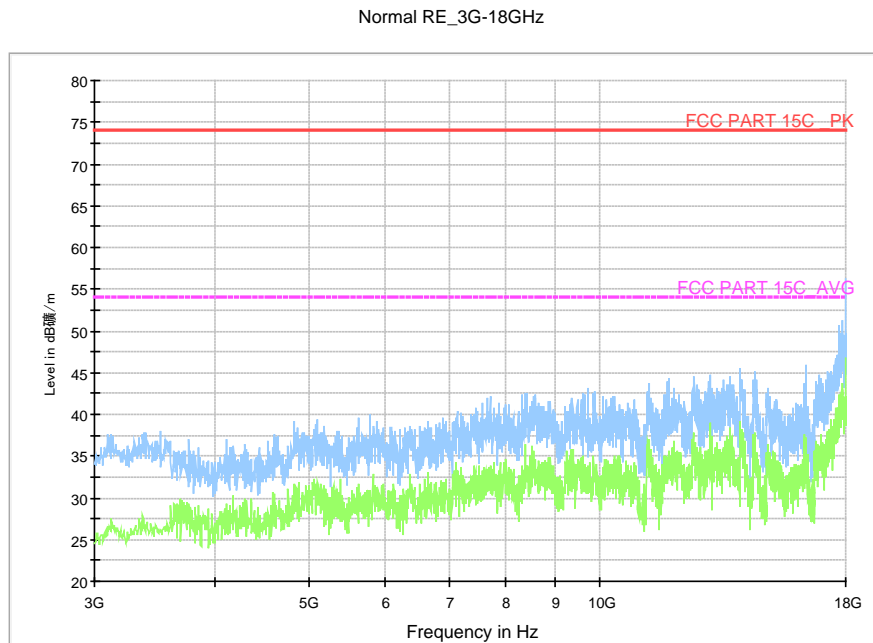


Fig.A.6.2.33 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)

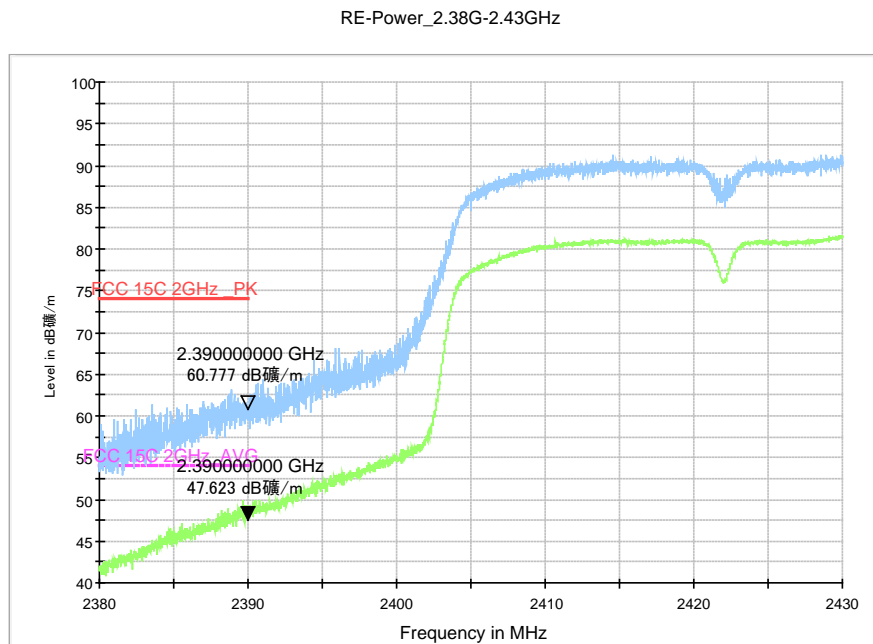


Fig.A.6.2.34 Radiated Spurious Emission (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

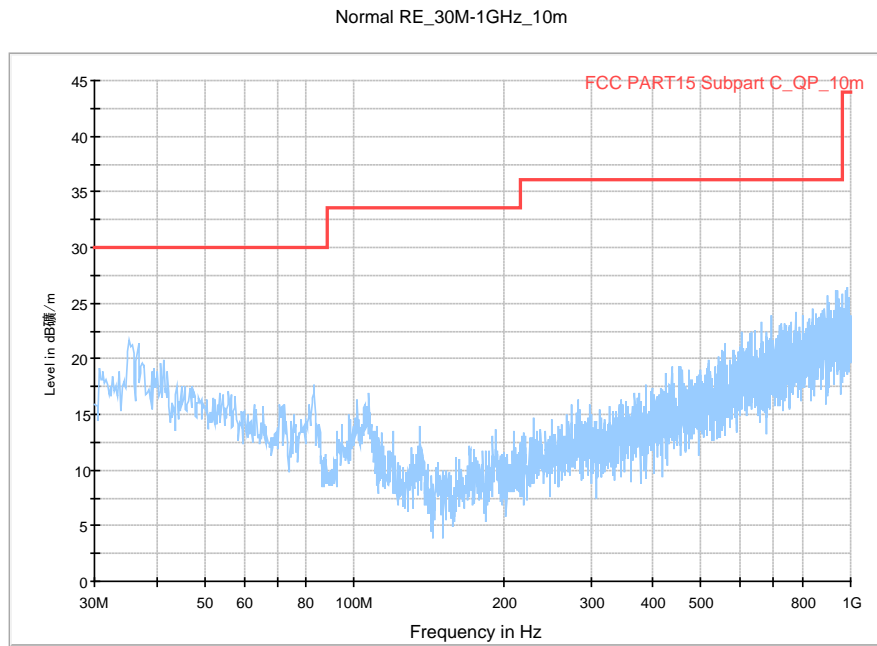


Fig.A.6.2.35 Radiated Spurious Emission (802.11n-HT40, ch3, 30 MHz-1 GHz)

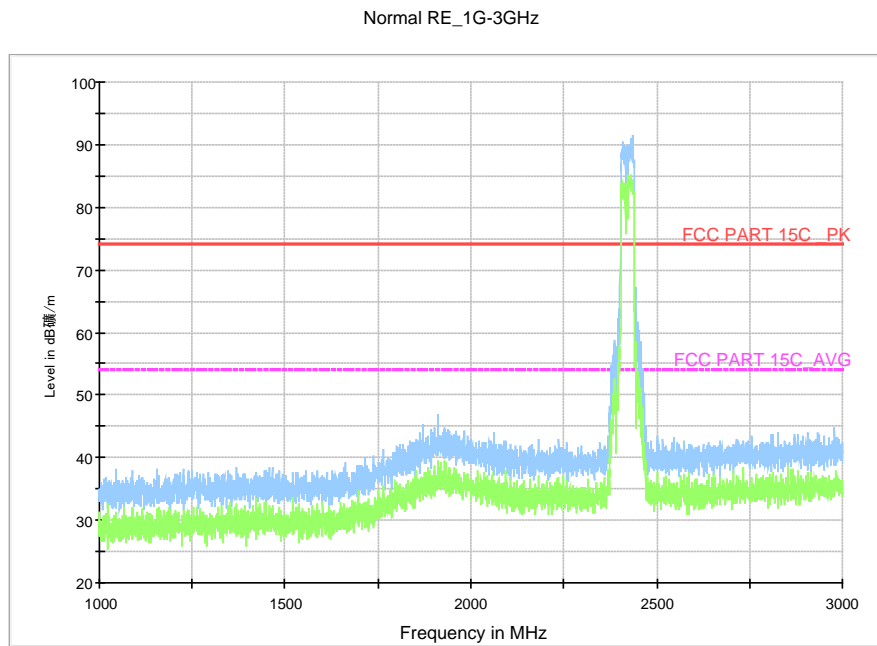


Fig.A.6.2.36 Radiated Spurious Emission (802.11n-HT40, ch3, 1 GHz-3 GHz)

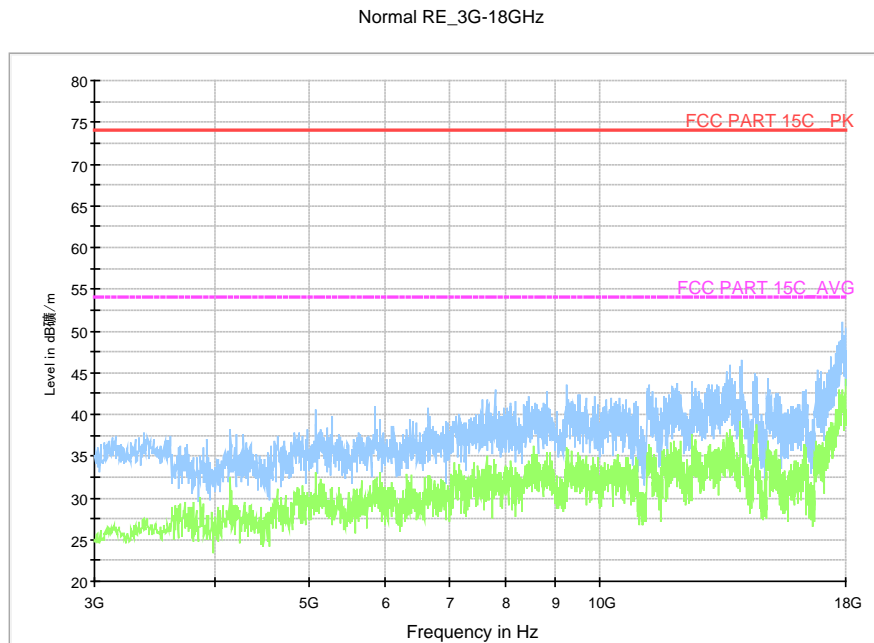


Fig.A.6.2.37 Radiated Spurious Emission (802.11n-HT40, ch3, 3 GHz-18 GHz)

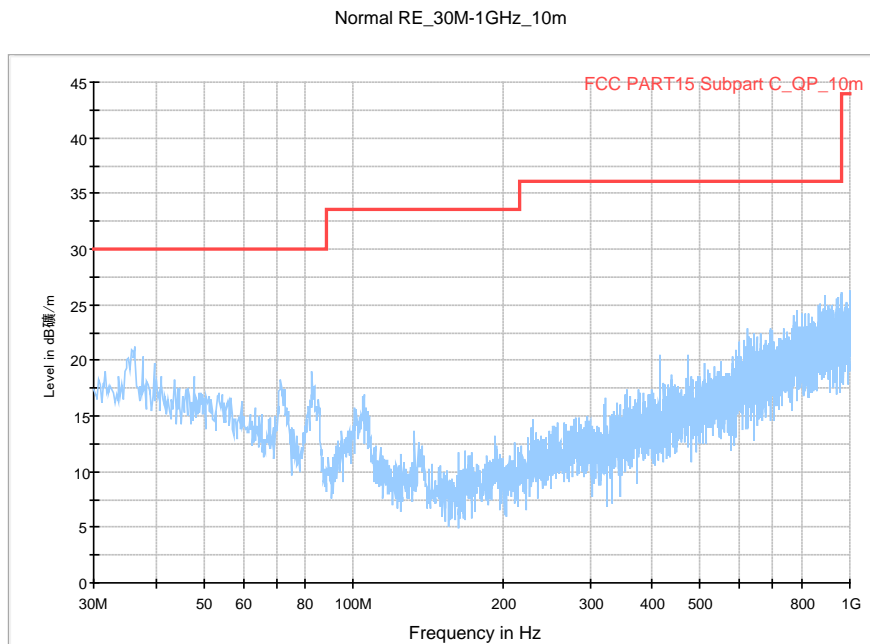


Fig.A.6.2.38 Radiated Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)

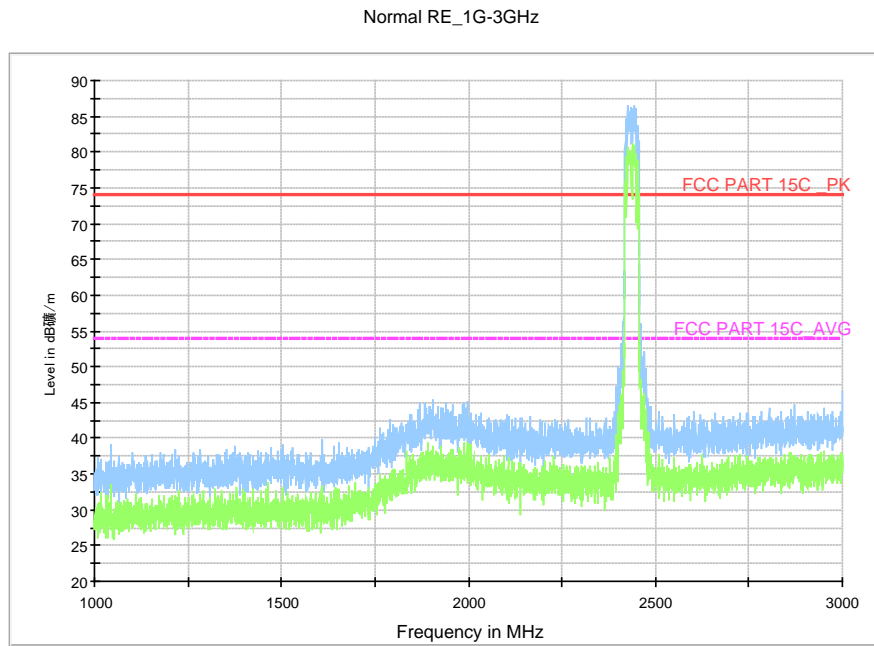


Fig.A.6.2.39 Radiated Spurious Emission (802.11n-HT40, Ch6, 1 GHz-3 GHz)

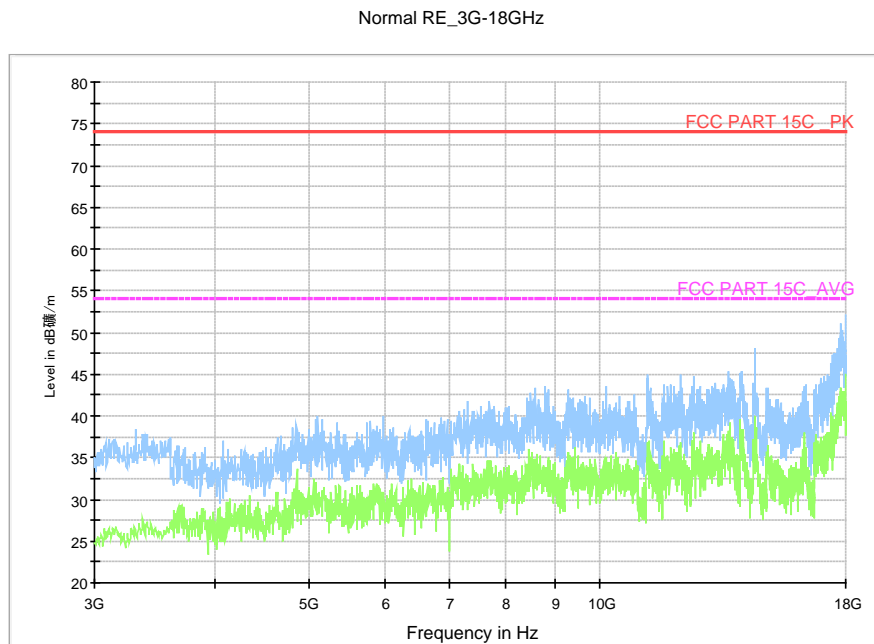


Fig.A.6.2.40 Radiated Spurious Emission (802.11n-HT40, Ch6, 3 GHz-18 GHz)

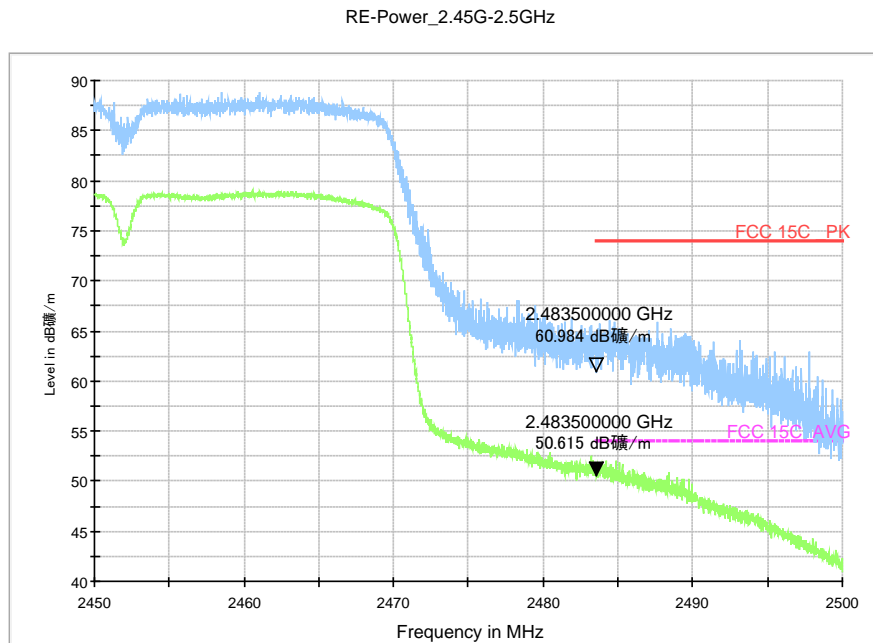


Fig.A.6.2.41 Radiated Spurious Emission (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

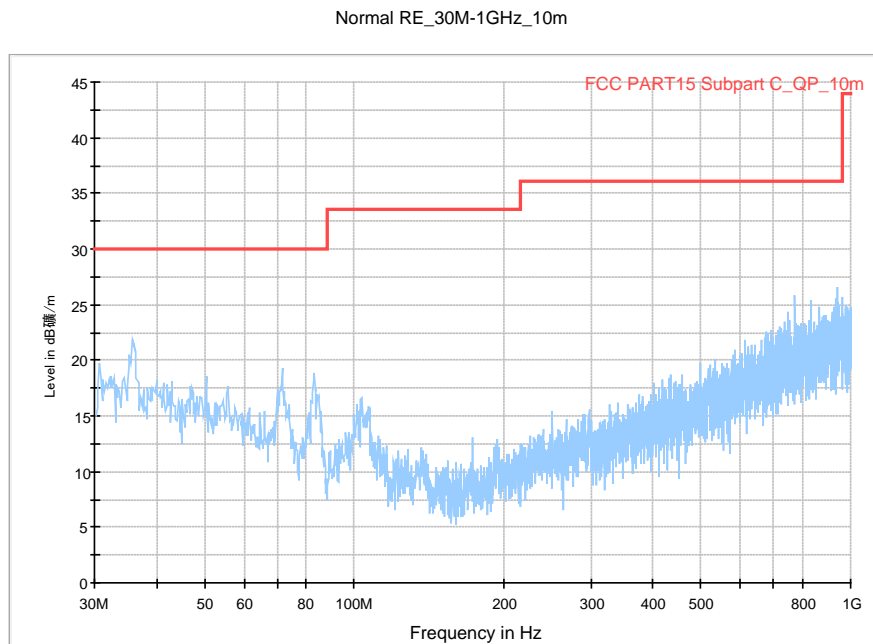


Fig.A.6.2.42 Radiated Spurious Emission (802.11n-HT40, ch9, 30 MHz-1 GHz)

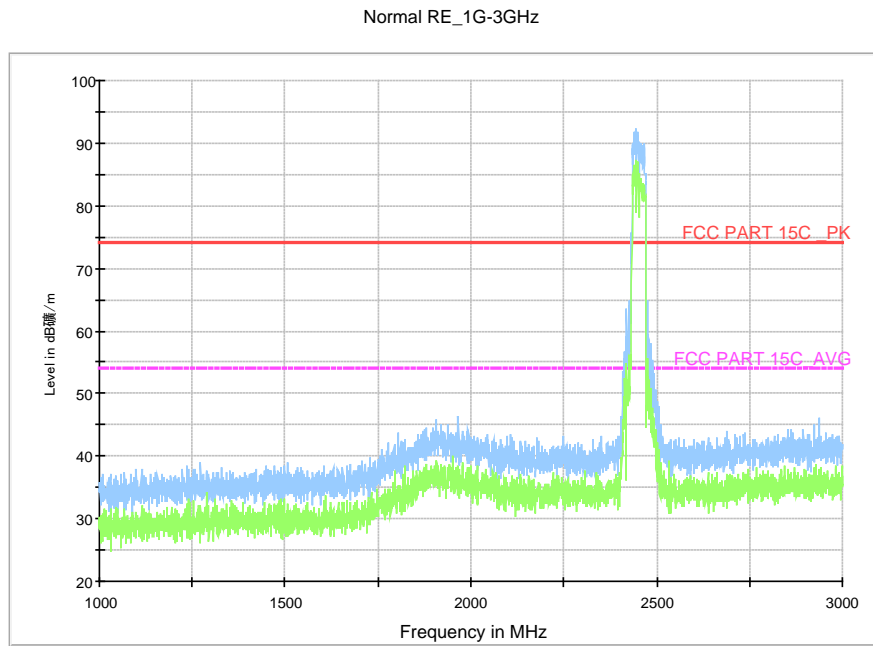


Fig.A.6.2.43 Radiated Spurious Emission (802.11n-HT40, ch9, 1 GHz-3 GHz)

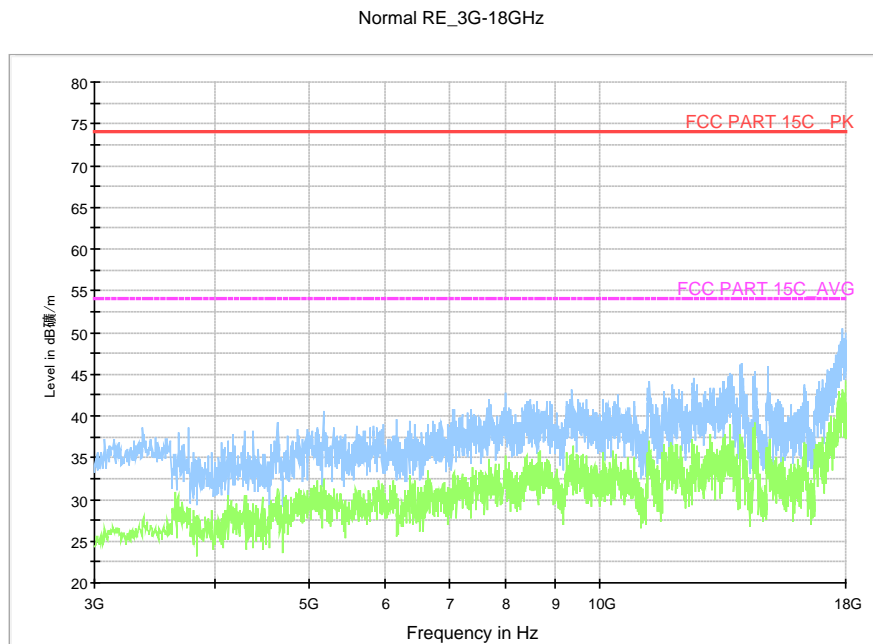


Fig.A.6.2.44 Radiated Spurious Emission (802.11n-HT40, ch9, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

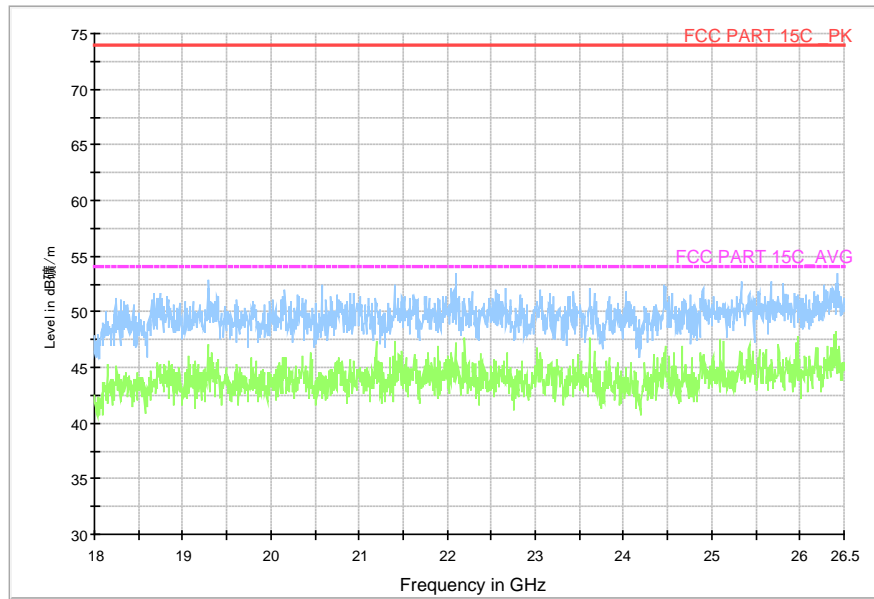


Fig.A.6.2.45 Radiated Spurious Emission (All channels): 18GHz – 26.5GHz

A.7. AC Powerline Conducted Emission

Test Condition:

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 110 | 60 |

Measurement Result and limit:

WLAN (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|-------------------------------|---------------------|---------|------------|
| | | With charger | | |
| | | 802.11b | Idle | |
| 0.15 to 0.5 | 66 to 56 | Fig.7.1 | Fig.7.2 | P |
| 0.5 to 5 | 56 | | | |
| 5 to 30 | 60 | | | |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

| Frequency range (MHz) | Average Limit (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|----------------------------|---------------------|-----------|------------|
| | | With charger | | |
| | | 802.11b | Idle | |
| 0.15 to 0.5 | 56 to 46 | Fig.A.7.1 | Fig.A.7.2 | P |
| 0.5 to 5 | 46 | | | |
| 5 to 30 | 50 | | | |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10

Note: Expanded measurement uncertainty for this test item is $U = 3.2\text{dB}$, $k=2$.

Conclusion: PASS

Test graphs as below:

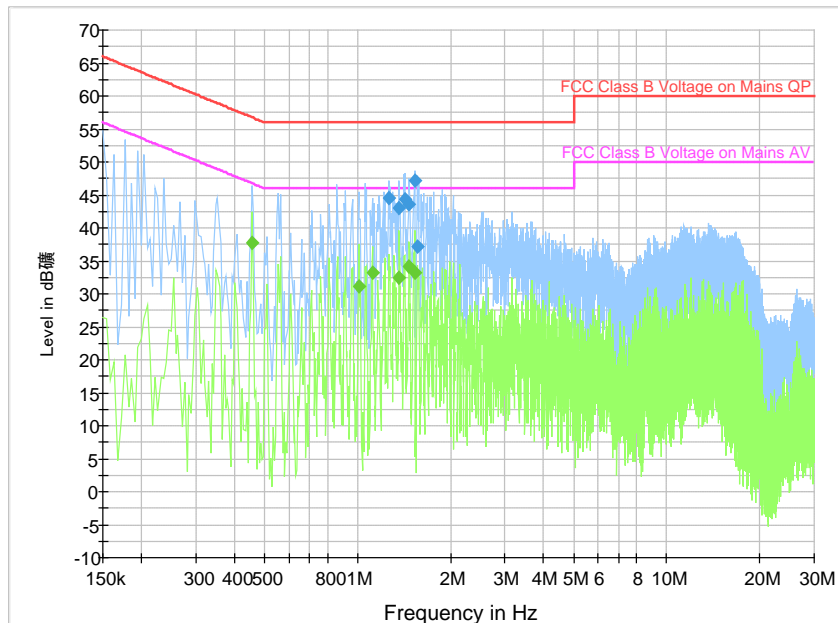


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Measurement Result 1:

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 1.257000 | 44.6 | GND | L1 | 9.7 | 11.4 | 56.0 |
| 1.365000 | 43.1 | GND | L1 | 9.7 | 12.9 | 56.0 |
| 1.419000 | 44.3 | GND | L1 | 9.7 | 11.7 | 56.0 |
| 1.468500 | 43.7 | GND | L1 | 9.7 | 12.3 | 56.0 |
| 1.527000 | 47.1 | GND | L1 | 9.7 | 8.9 | 56.0 |
| 1.563000 | 37.2 | GND | N | 9.7 | 18.8 | 56.0 |

Measurement Result 2:

| Frequency (MHz) | Average (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|-----|------|------------|-------------|--------------|
| 0.456000 | 37.8 | GND | L1 | 9.8 | 9.0 | 46.8 |
| 1.009500 | 31.0 | GND | L1 | 9.7 | 15.0 | 46.0 |
| 1.117500 | 33.1 | GND | L1 | 9.7 | 12.9 | 46.0 |
| 1.365000 | 32.5 | GND | L1 | 9.7 | 13.5 | 46.0 |
| 1.468500 | 34.2 | GND | L1 | 9.7 | 11.8 | 46.0 |
| 1.527000 | 33.2 | GND | L1 | 9.7 | 12.8 | 46.0 |

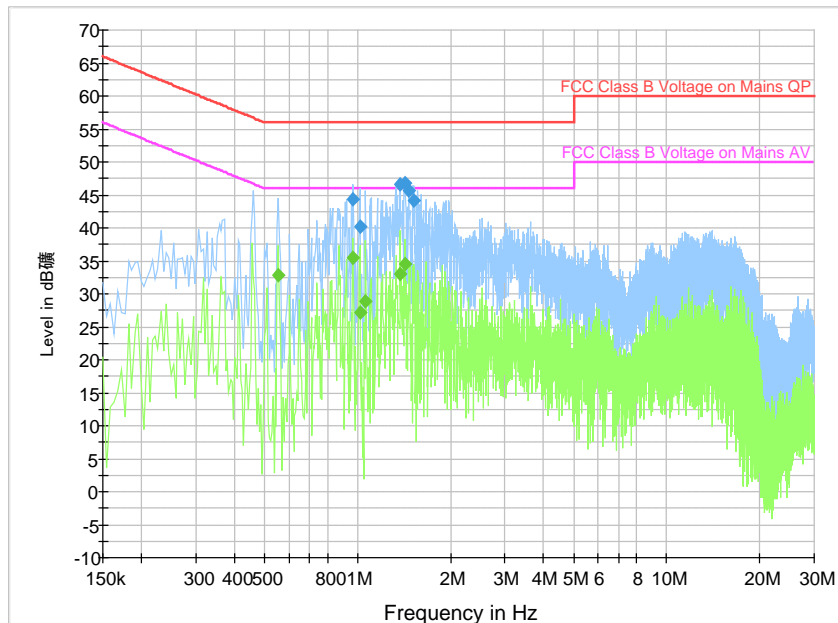


Fig.A.7.2 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Measurement Result 1:

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.969000 | 44.4 | GND | L1 | 9.7 | 11.6 | 56.0 |
| 1.018500 | 40.1 | GND | L1 | 9.7 | 15.9 | 56.0 |
| 1.374000 | 46.6 | GND | L1 | 9.7 | 9.4 | 56.0 |
| 1.419000 | 46.7 | GND | L1 | 9.7 | 9.3 | 56.0 |
| 1.464000 | 45.7 | GND | L1 | 9.7 | 10.3 | 56.0 |
| 1.522500 | 44.2 | GND | L1 | 9.7 | 11.8 | 56.0 |

Measurement Result 2:

| Frequency (MHz) | Average (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|-----|------|------------|-------------|--------------|
| 0.555000 | 32.8 | GND | L1 | 9.8 | 13.2 | 46.0 |
| 0.964500 | 35.5 | GND | L1 | 9.7 | 10.5 | 46.0 |
| 1.018500 | 27.1 | GND | L1 | 9.7 | 18.9 | 46.0 |
| 1.063500 | 28.8 | GND | L1 | 9.7 | 17.2 | 46.0 |
| 1.374000 | 33.0 | GND | L1 | 9.7 | 13.0 | 46.0 |
| 1.423500 | 34.6 | GND | L1 | 9.7 | 11.4 | 46.0 |

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