

Normal RE_18G-26.5GHz

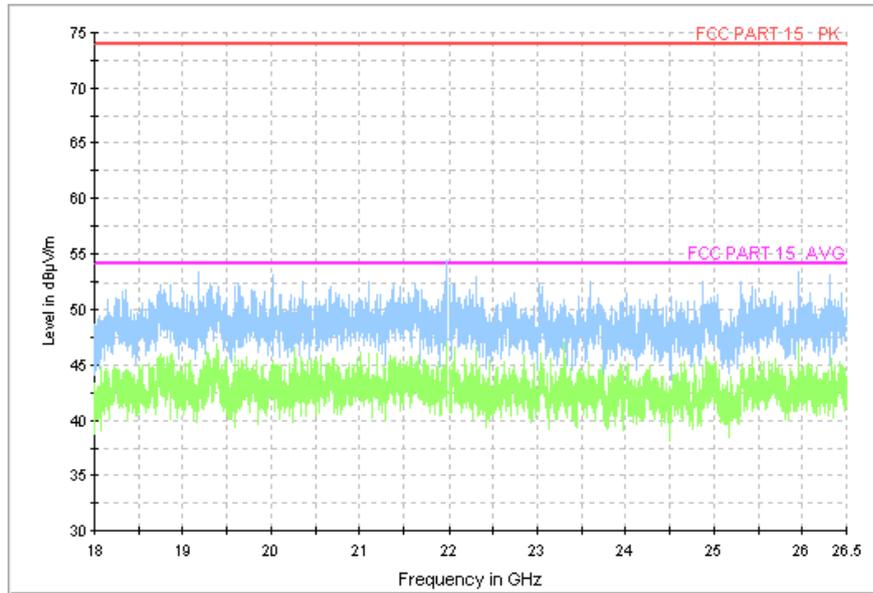


Fig.A.6.2.37 Radiated Spurious Emission (All channels): 18GHz – 26.5GHz

A.7. AC Powerline Conducted Emission

Test Condition:

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120 | 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.A.7.1 | Fig.A.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 KDB558074.

Conclusion: Pass

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Test graphs as below:

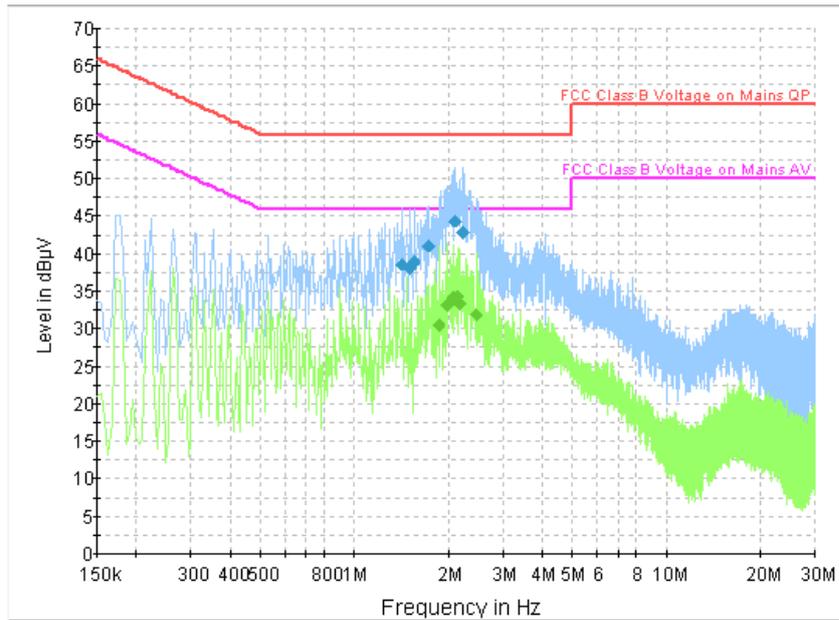


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 1.428000 | 38.7 | GND | N | 9.7 | 17.3 | 56.0 |
| 1.513500 | 38.2 | GND | N | 9.7 | 17.8 | 56.0 |
| 1.558500 | 39.0 | GND | N | 9.7 | 17.0 | 56.0 |
| 1.734000 | 41.1 | GND | N | 9.7 | 14.9 | 56.0 |
| 2.103000 | 44.4 | GND | N | 9.7 | 11.6 | 56.0 |
| 2.229000 | 42.9 | GND | N | 9.7 | 13.1 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|-----|------|------------|-------------|--------------|
| 1.864500 | 30.6 | GND | L1 | 9.7 | 15.4 | 46.0 |
| 1.995000 | 33.2 | GND | L1 | 9.7 | 12.8 | 46.0 |
| 2.080500 | 34.3 | GND | L1 | 9.7 | 11.8 | 46.0 |
| 2.143500 | 34.4 | GND | L1 | 9.7 | 11.6 | 46.0 |
| 2.175000 | 33.3 | GND | L1 | 9.7 | 12.7 | 46.0 |
| 2.454000 | 31.8 | GND | L1 | 9.7 | 14.2 | 46.0 |

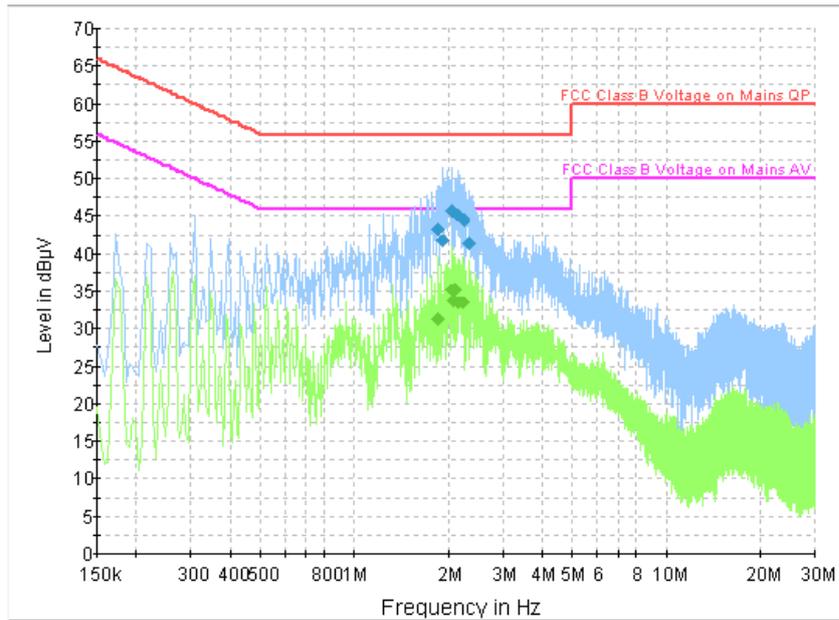


Fig.A.7.2 AC Powerline Conducted Emission-Idle

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

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 1.851000 | 43.2 | GND | N | 9.7 | 12.8 | 56.0 |
| 1.918500 | 41.7 | GND | N | 9.7 | 14.3 | 56.0 |
| 2.067000 | 45.8 | GND | N | 9.7 | 10.2 | 56.0 |
| 2.166000 | 45.2 | GND | L1 | 9.7 | 10.8 | 56.0 |
| 2.247000 | 44.6 | GND | L1 | 9.7 | 11.4 | 56.0 |
| 2.332500 | 41.4 | GND | N | 9.7 | 14.6 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|-----|------|------------|-------------|--------------|
| 1.842000 | 31.3 | GND | L1 | 9.7 | 14.7 | 46.0 |
| 2.058000 | 35.2 | GND | L1 | 9.7 | 10.8 | 46.0 |
| 2.089500 | 33.8 | GND | L1 | 9.7 | 12.2 | 46.0 |
| 2.103000 | 35.3 | GND | L1 | 9.7 | 10.7 | 46.0 |
| 2.166000 | 33.6 | GND | L1 | 9.7 | 12.4 | 46.0 |
| 2.229000 | 33.5 | GND | L1 | 9.7 | 12.5 | 46.0 |