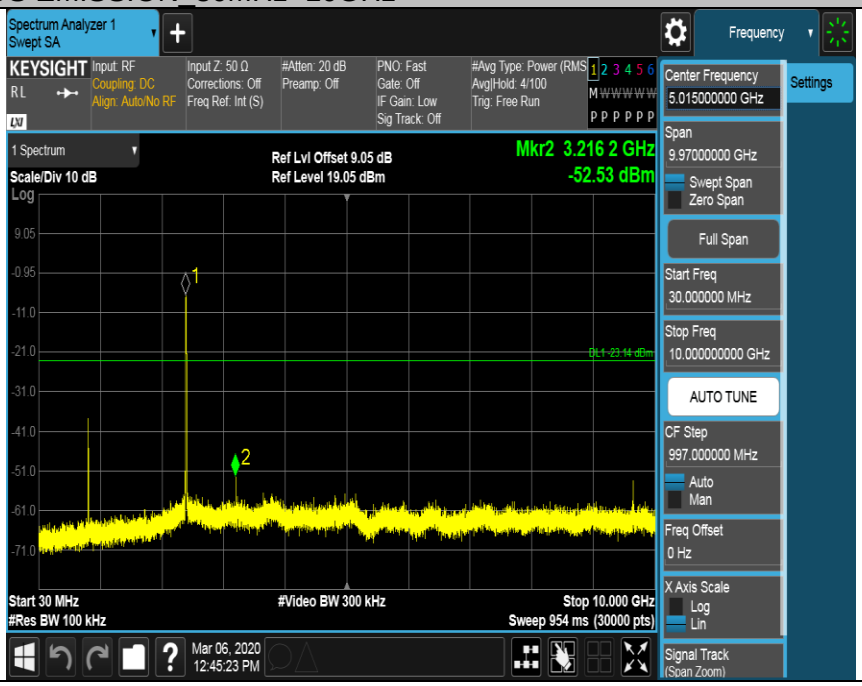
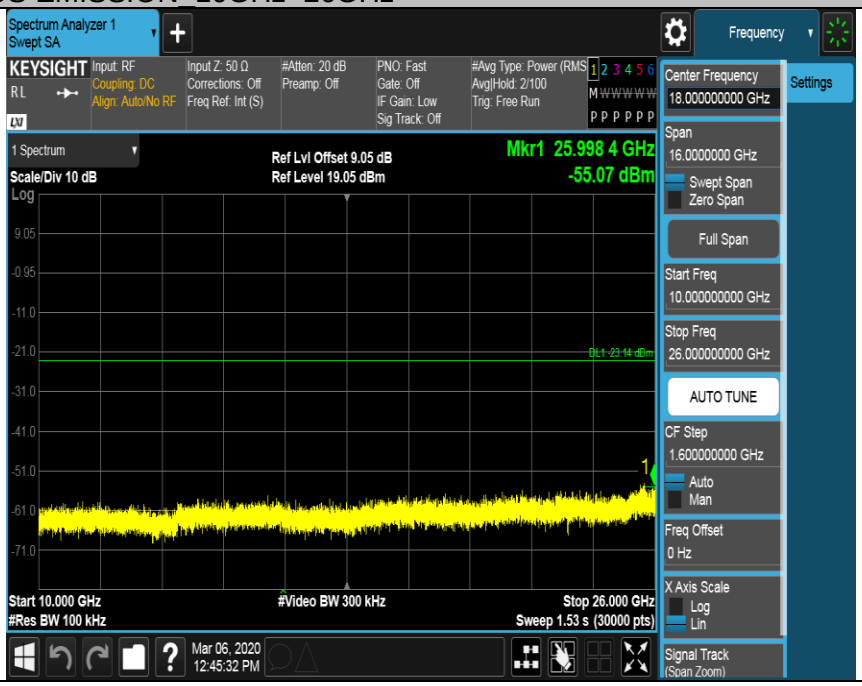
Puw test Plot

LCH SPURIOUS EMISSION_30MHz~10GHz



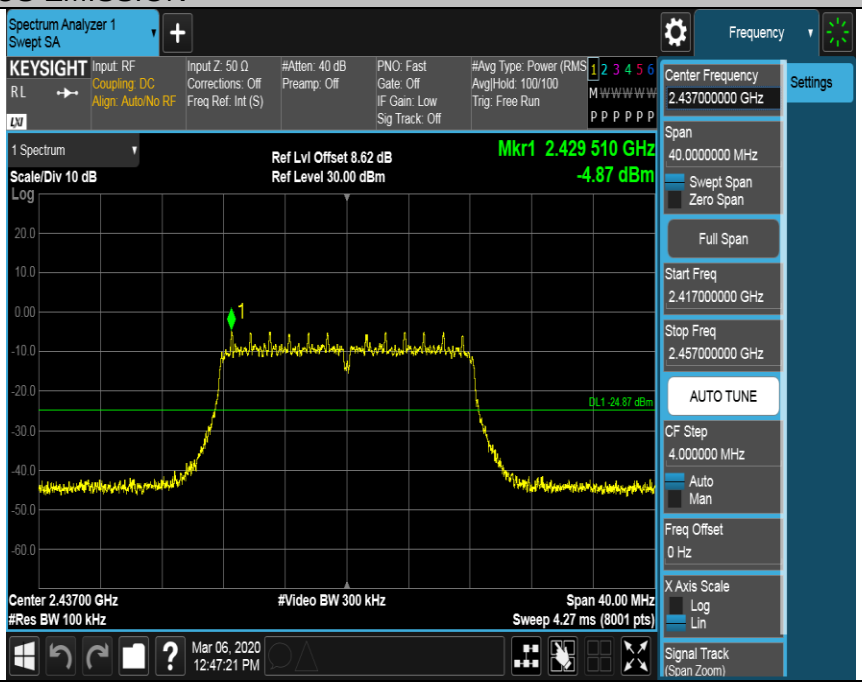

LCH SPURIOUS EMISSION_10GHz~26GHz



| Test Mode | Channel | Verdict |
|---|---|---|
| 11N HT20 | MCH | PASS |

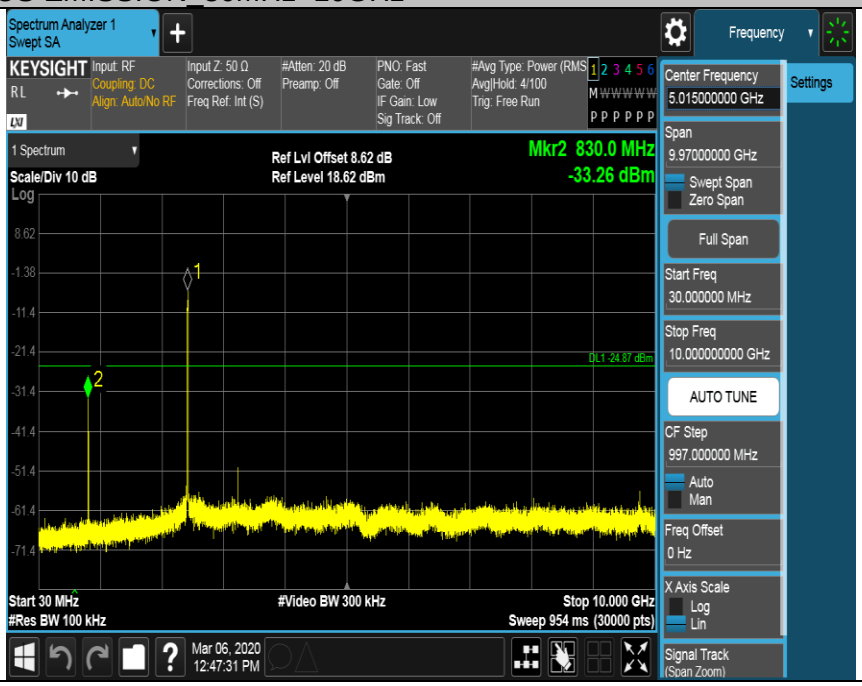
Pref test Plot

MCH SPURIOUS EMISSION

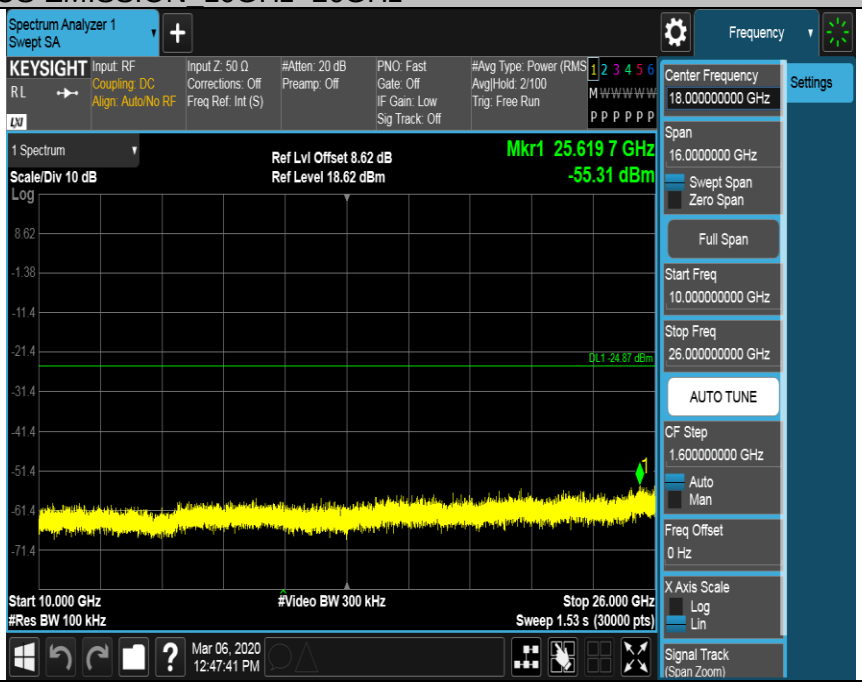


Puw test Plot

MCH SPURIOUS EMISSION_30MHz~10GHz



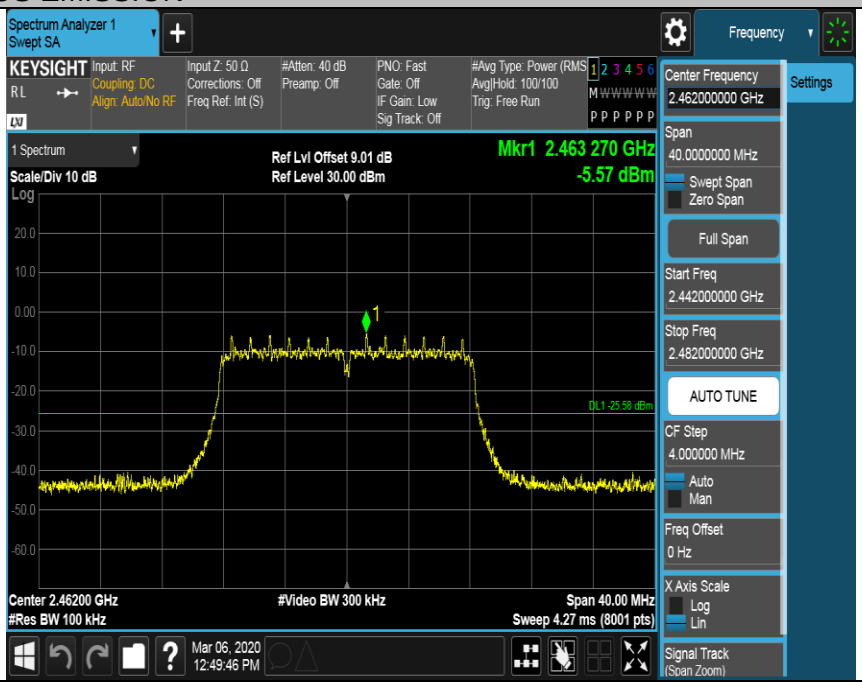

MCH SPURIOUS EMISSION_10GHz~26GHz



| Test Mode | Channel | Verdict |
|---|---|---|
| 11N HT20 | HCH | PASS |

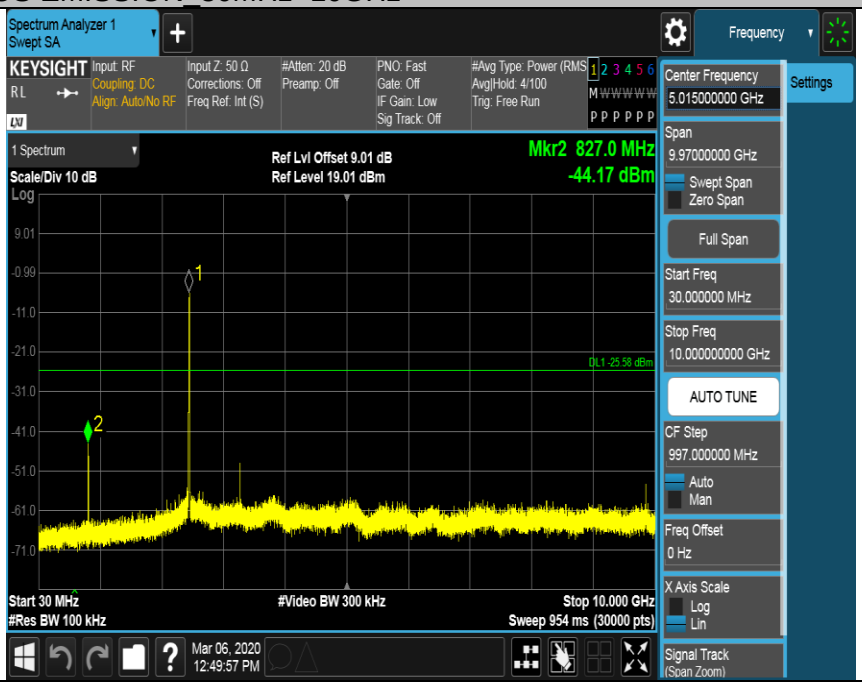
Pref test Plot

HCH SPURIOUS EMISSION

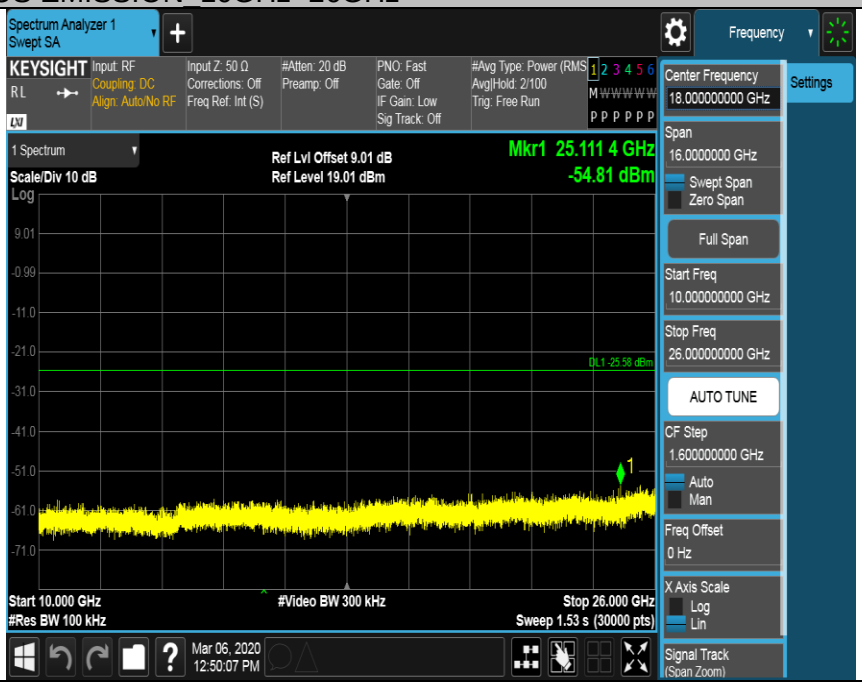


Puw test Plot

HCH SPURIOUS EMISSION_30MHz~10GHz




HCH SPURIOUS EMISSION_10GHz~26GHz



## 7.6. RADIATED TEST RESULTS

### 7.6.1. LIMITS AND PROCEDURE

**LIMITS**

Please refer to FCC §15.205&§15.209, ISED RSS-247 Clause 5.5, ISED RSS-GEN Clause 8.9&6.13

Please refer to FCC KDB 558074

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 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 |
| 960~1000 | 500 | 3 |

Limit for below 30MHz based on RSS-GEN table 6:

**Table 6 – General field strength limits at frequencies below 30 MHz**

| Frequency | Magnetic field strength (H-Field) (µA/m) | Measurement distance (m) |
|---|---|---|
| 9 - 490 kHz[Note 1] | 6.37/F (F in kHz) | 300 |
| 490 - 1705 kHz | 63.7/F (F in kHz) | 30 |
| 1.705 - 30 MHz | 0.08 | 30 |

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the

specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

Radiation Disturbance Test Limit for FCC (Above 1G)

| Frequency (MHz) | dB(uV/m) (at 3 meters) | |
|---|---|---|
| | Peak | Average |
| Above 1000 | 74 | 54 |

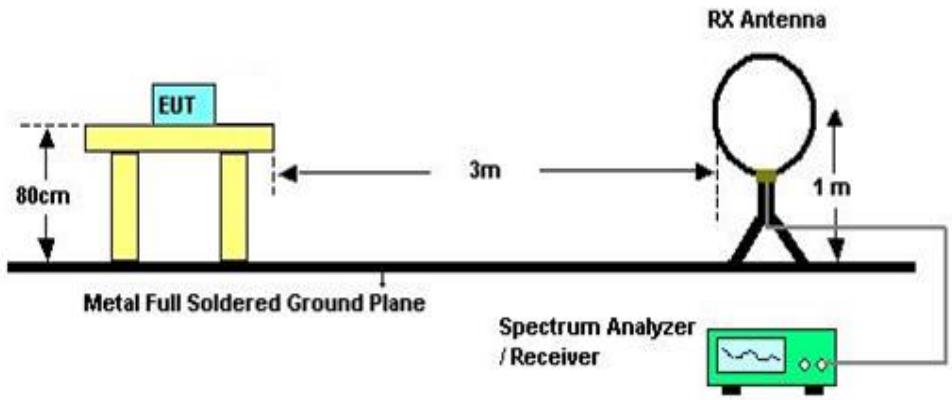
Restricted bands of operation

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| [1]0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | ([2]) |
| 13.36-13.41 | | | |

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

**TEST SETUP AND PROCEDURE**

Below 30MHz




The setting of the spectrum analyser

| | |
|---|---|
| RBW | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |
| VBW | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |
| Sweep | Auto |
| Detector | Peak/QP/ Average |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

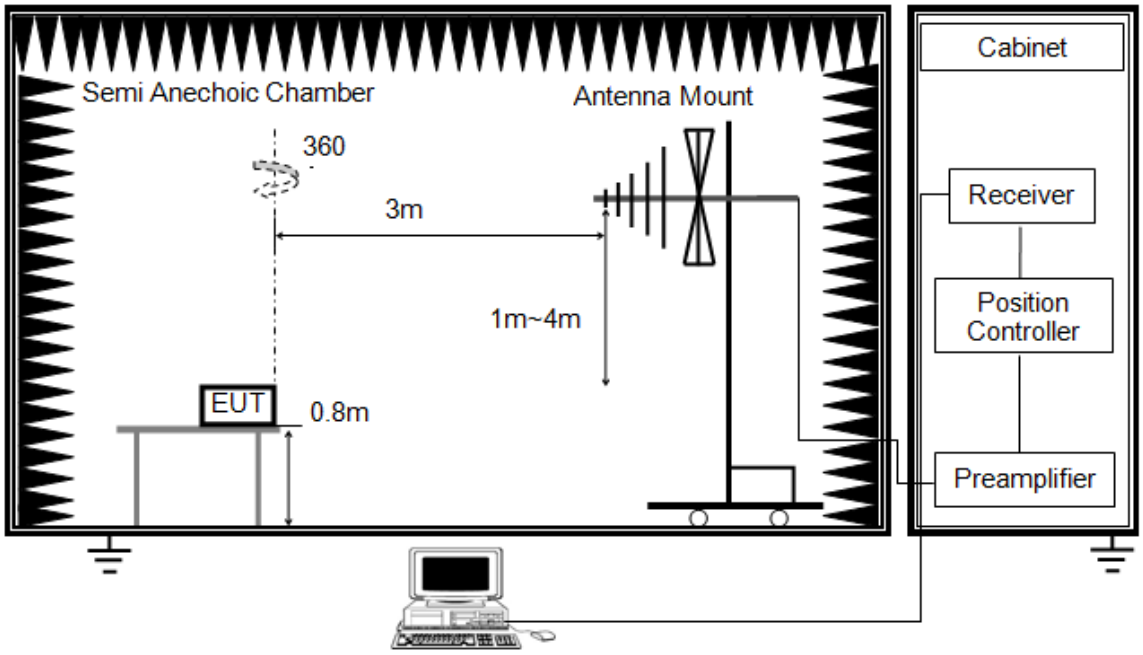
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

Below 1G




The setting of the spectrum analyser

| | |
|---|---|
| RBW | 120K |
| VBW | 300K |
| Sweep | Auto |
| Detector | Peak/QP |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

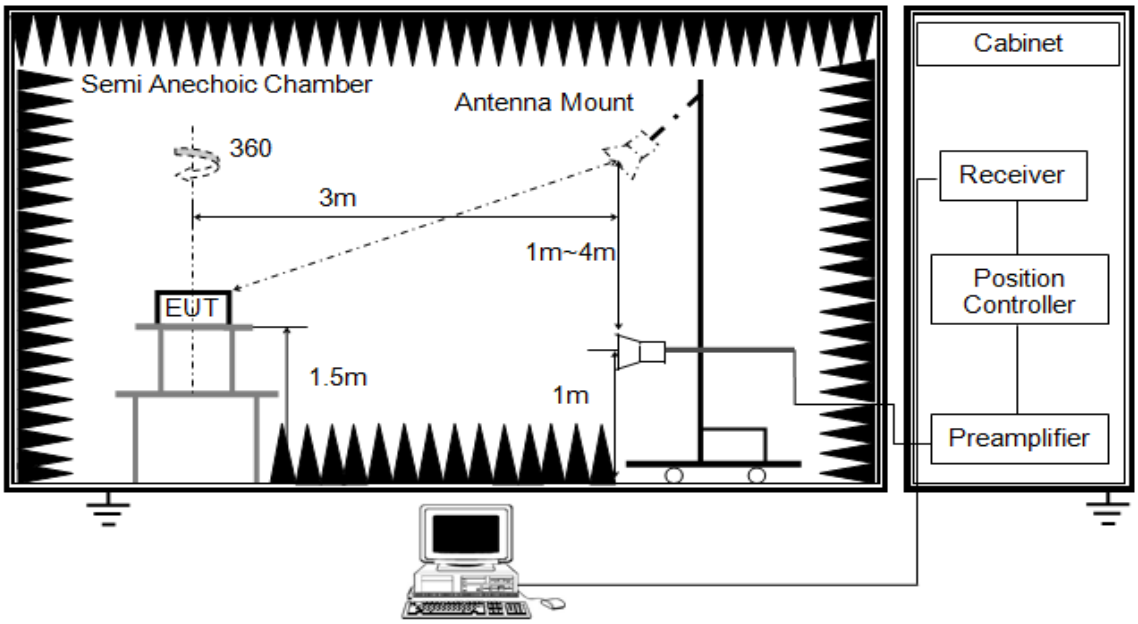
3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

6. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration)

ABOVE 1G




The setting of the spectrum analyser

| | |
|---|---|
| RBW | 1M |
| VBW | PEAK:3M<br>AVG: See note6 |
| Sweep | Auto |
| Detector | Peak/Average |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

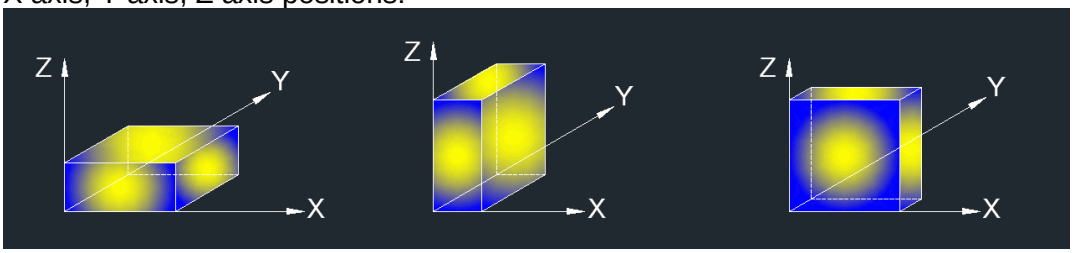
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For 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 MHz resolution bandwidth with set VBW ≤RBW/100, but not less than list in section7.1 with average detector， max hold to be run for at least 50 traces for average measurements.

8. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

X axis, Y axis, Z axis positions:




Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Z axis) data recorded in the report.

### 7.6.2. TEST ENVIRONMENT

| | | | |
|---|---|---|---|
| Temperature | 22°C | Relative Humidity | 56% |
| Atmosphere Pressure | 101kPa | Test Voltage | DC 21.6V |

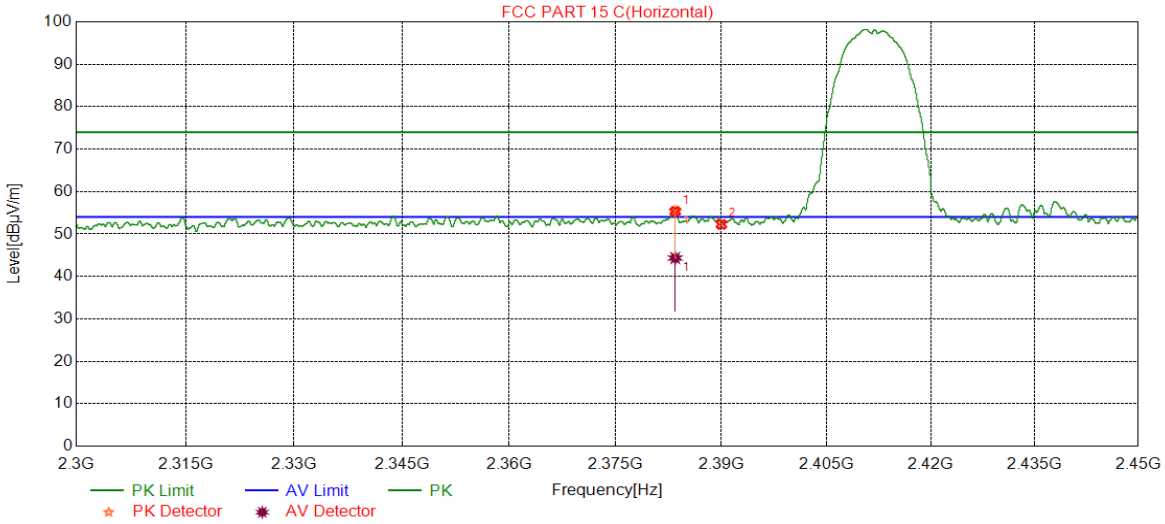
### 7.6.3. RESTRICTED BANDEDGE

Test Result Table

| Test Mode | Test Antenna | Channel | Puw(dBm) | Verdict |
|---|---|---|---|---|
| 11B SISO | Antenna1 | LCH | <Limit | PASS |
| | | MCH | <Limit | PASS |
| | | HCH | <Limit | PASS |
| 11G SISO | Antenna1 | LCH | <Limit | PASS |
| | | MCH | <Limit | PASS |
| | | HCH | <Limit | PASS |
| 11N HT20 | Antenna1 | LCH | <Limit | PASS |
| | | MCH | <Limit | PASS |
| | | HCH | <Limit | PASS |

**Test Graphs:**

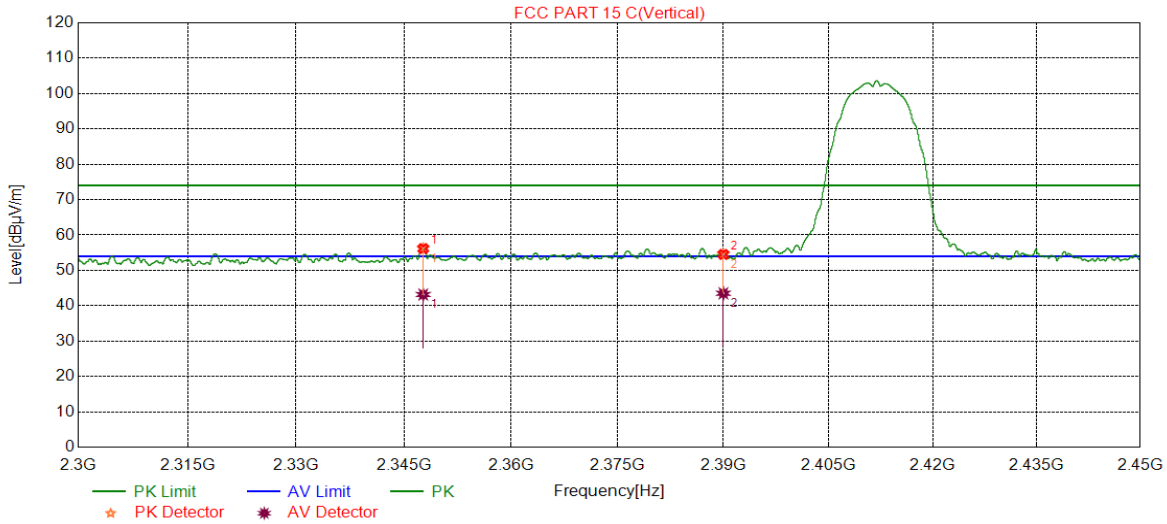
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2383.4479 | 41.27 | 14.06 | 55.33 | 74.00 | -18.67 | peak |
| | | 30.27 | 14.06 | 44.33 | 54.00 | -9.67 | average |
| 2 | 2390.0000 | 38.17 | 14.09 | 52.26 | 74.00 | -21.74 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

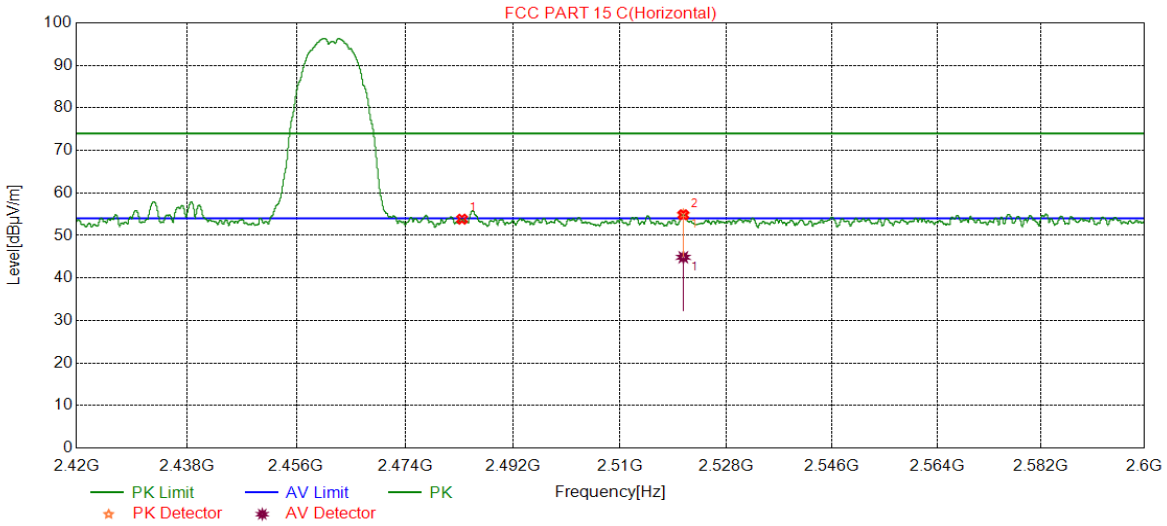
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | LCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2347.6872 | 42.50 | 13.66 | 56.16 | 74.00 | -17.84 | peak |
| | | 29.50 | 13.66 | 43.16 | 54.00 | -10.84 | average |
| 2 | 2390.0000 | 40.42 | 14.09 | 54.51 | 74.00 | -19.49 | peak |
| | | 29.42 | 14.09 | 43.51 | 54.00 | -10.49 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

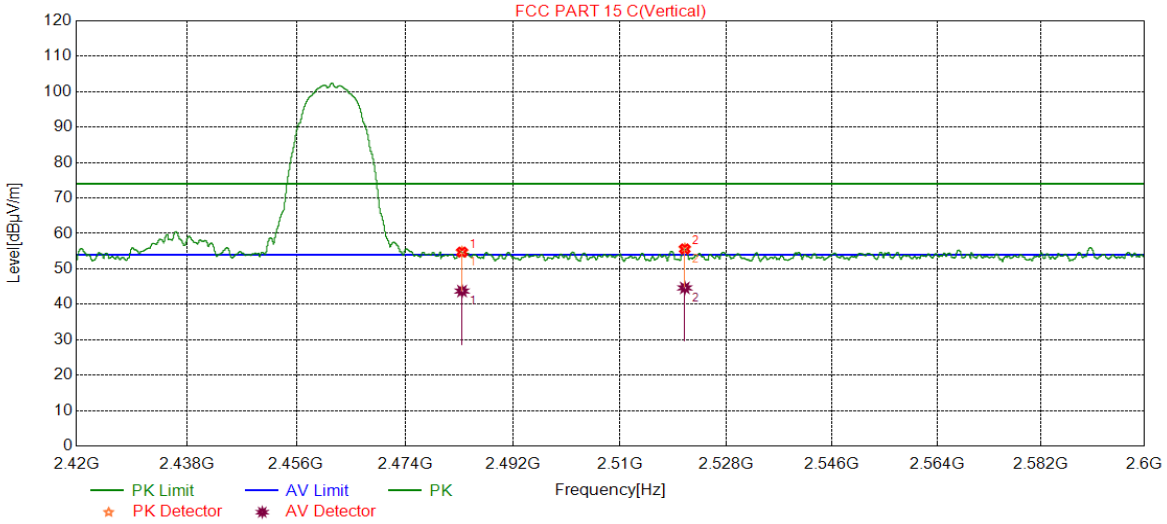
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | HCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.5000 | 39.95 | 13.88 | 53.83 | 74.00 | -20.17 | peak |
| 2 | 2520.6841 | 40.58 | 14.28 | 54.86 | 74.00 | -19.14 | peak |
| | | 30.58 | 14.28 | 44.86 | 54.00 | -9.14 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

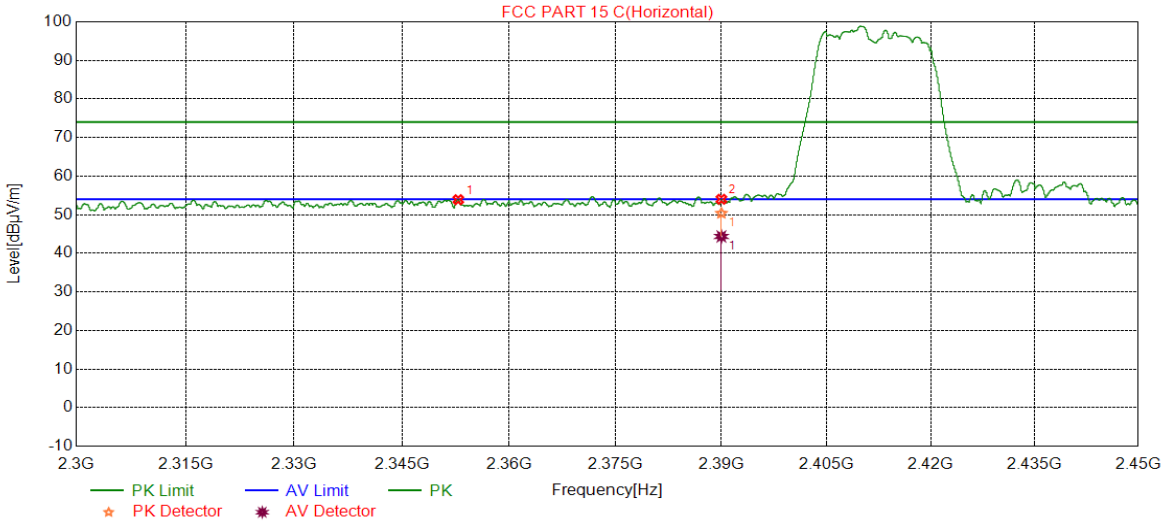
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | HCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.5000 | 40.86 | 13.88 | 54.74 | 74.00 | -19.26 | peak |
| | | 29.86 | 13.88 | 43.74 | 54.00 | -10.26 | average |
| 2 | 2520.9361 | 41.35 | 14.28 | 55.63 | 74.00 | -18.37 | peak |
| | | 30.35 | 14.28 | 44.63 | 54.00 | -9.37 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

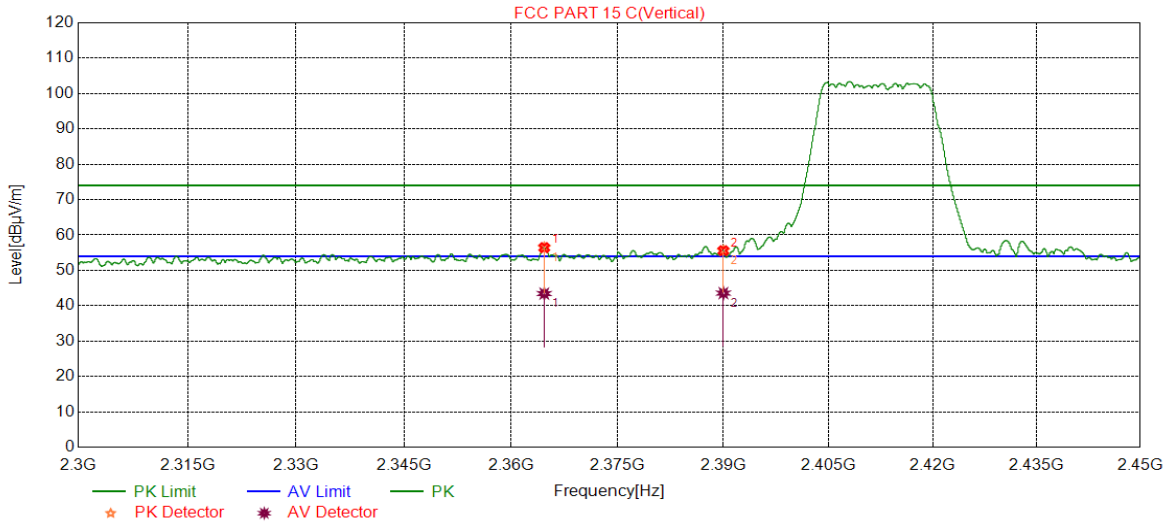
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2352.8629 | 40.21 | 13.68 | 53.89 | 74.00 | -20.11 | peak |
| 2 | 2390.0000 | 39.91 | 14.09 | 54.00 | 74.00 | -20.00 | peak |
| | | 30.27 | 14.09 | 44.36 | 54.00 | -9.64 | Average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

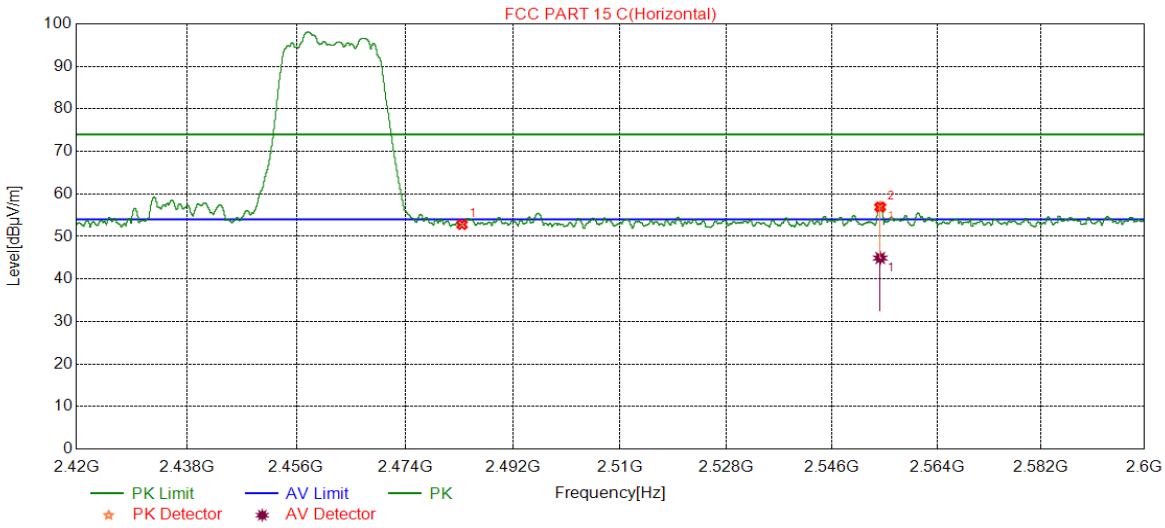
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2364.6581 | 42.65 | 13.78 | 56.43 | 74.00 | -17.57 | peak |
| | | 29.65 | 13.78 | 43.43 | 54.00 | -10.57 | average |
| 2 | 2390.0000 | 41.47 | 14.09 | 55.56 | 74.00 | -18.44 | peak |
| | | 29.47 | 14.09 | 43.56 | 54.00 | -10.44 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

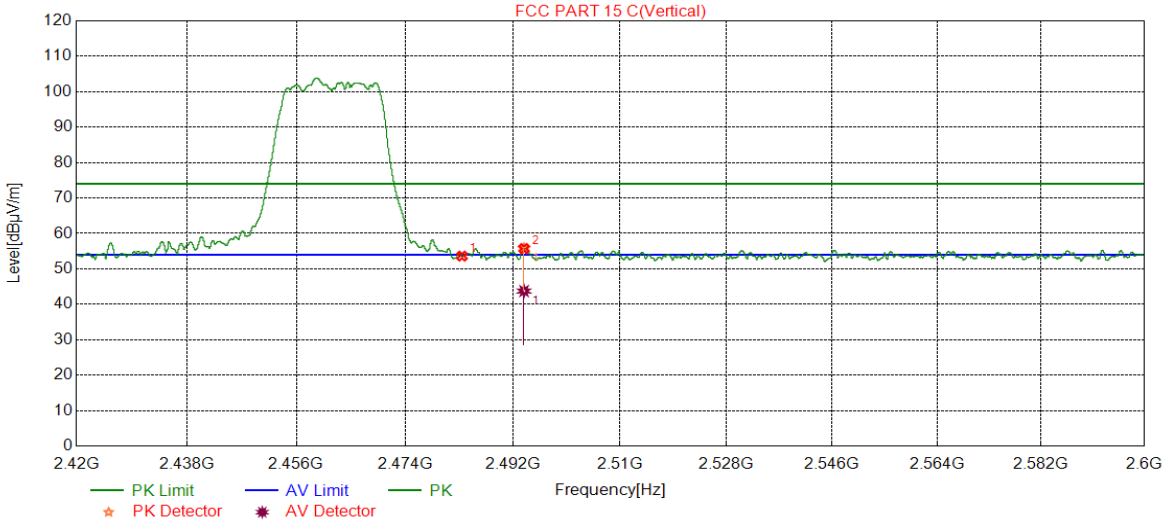
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | HCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.5000 | 38.91 | 13.88 | 52.79 | 74.00 | -21.21 | peak |
| 2 | 2554.2394 | 42.47 | 14.46 | 56.93 | 74.00 | -17.07 | peak |
| | | 30.47 | 14.46 | 44.93 | 54.00 | -9.07 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

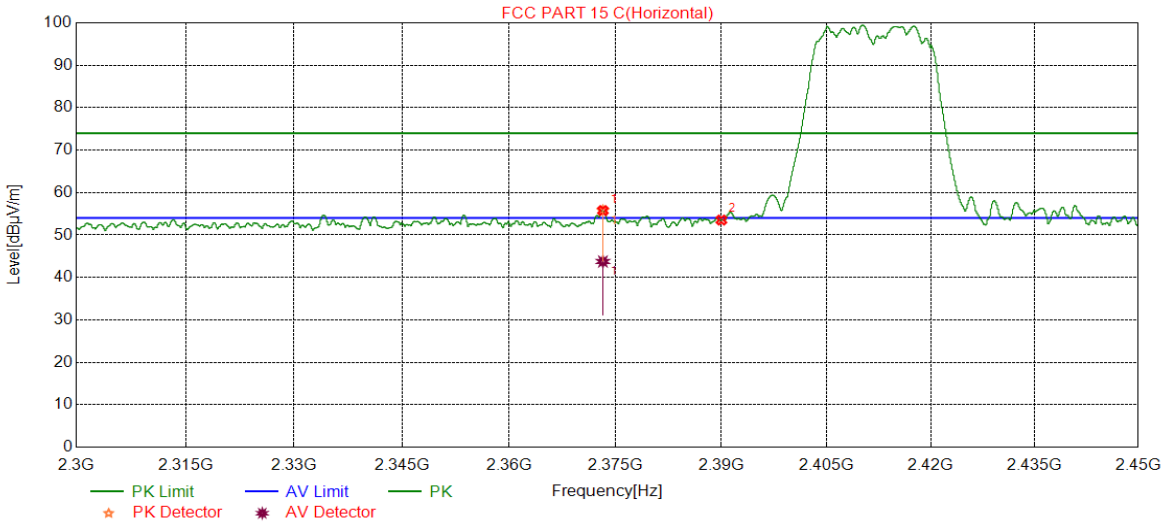
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | HCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.5000 | 39.72 | 13.88 | 53.60 | 74.00 | -20.40 | peak |
| 2 | 2493.8614 | 41.73 | 14.01 | 55.74 | 74.00 | -18.26 | peak |
| | | 29.73 | 14.01 | 43.74 | 54.00 | -10.26 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

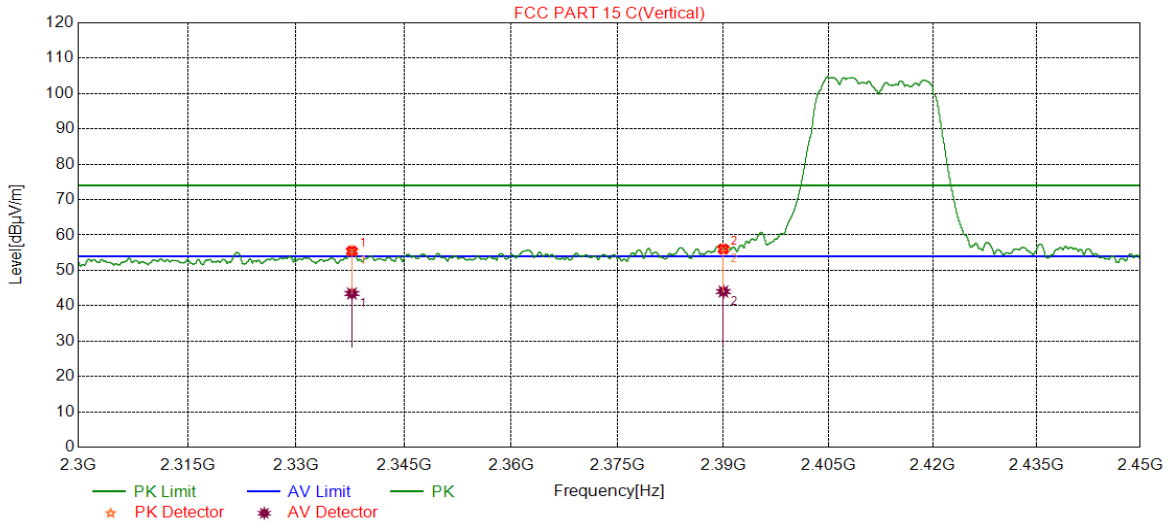
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2373.2092 | 41.86 | 13.89 | 55.75 | 74.00 | -18.25 | peak |
| | | 29.86 | 13.89 | 43.75 | 54.00 | -10.25 | average |
| 2 | 2390.0000 | 39.43 | 14.09 | 53.52 | 74.00 | -20.48 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

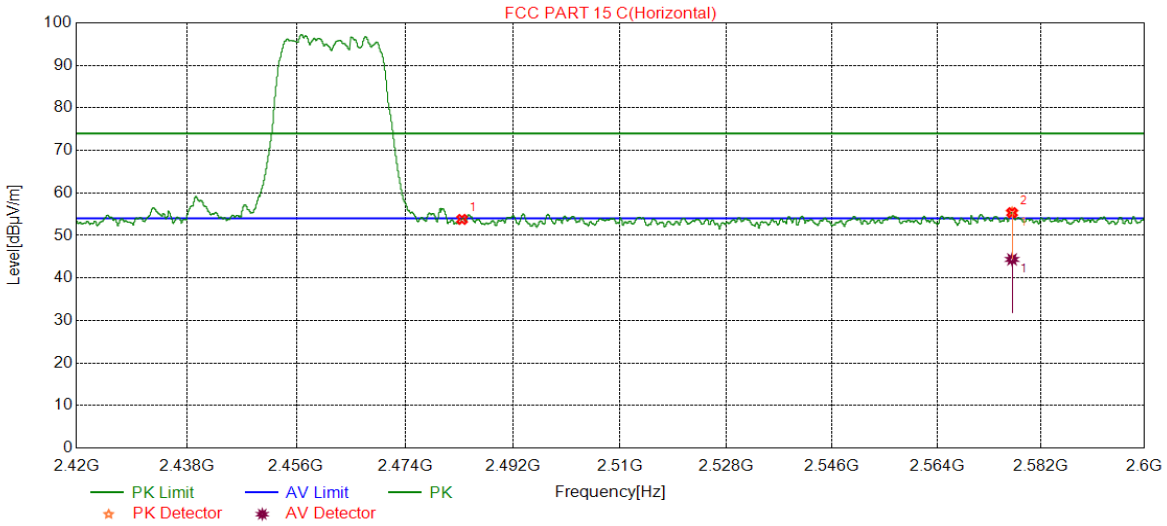
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | LCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2337.7485 | 41.91 | 13.54 | 55.45 | 74.00 | -18.55 | peak |
| | | 29.91 | 13.54 | 43.45 | 54.00 | -10.55 | average |
| 2 | 2390.0000 | 41.92 | 14.09 | 56.01 | 74.00 | -17.99 | peak |
| | | 29.92 | 14.09 | 44.01 | 54.00 | -9.99 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

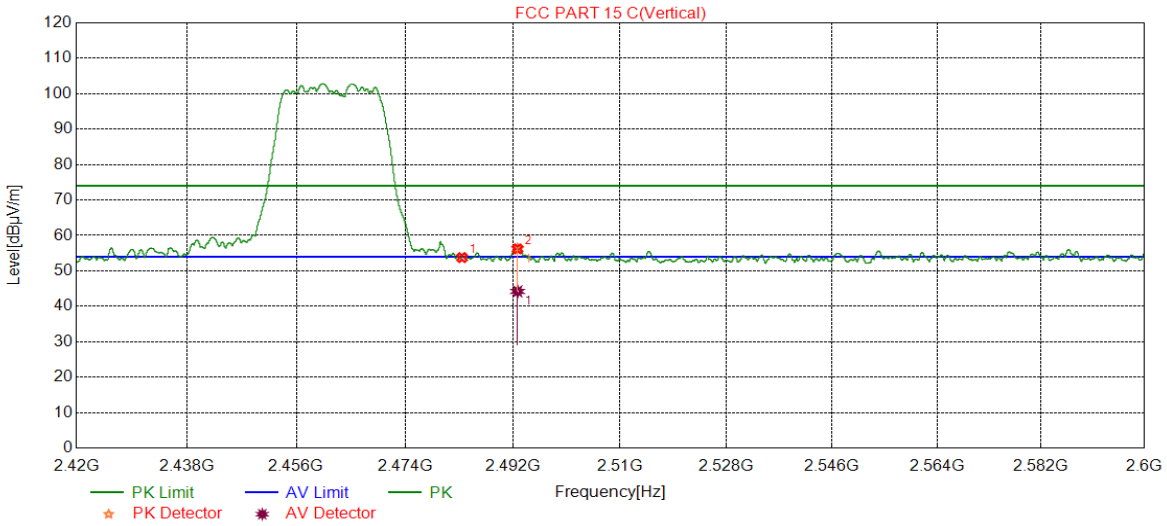
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | HCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.5000 | 39.89 | 13.88 | 53.77 | 74.00 | -20.23 | peak |
| 2 | 2576.9577 | 40.91 | 14.45 | 55.36 | 74.00 | -18.64 | peak |
| | | 29.91 | 14.45 | 44.36 | 54.00 | -9.64 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | HCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.5000 | 39.86 | 13.88 | 53.74 | 74.00 | -20.26 | peak |
| 2 | 2492.7813 | 42.22 | 13.99 | 56.21 | 74.00 | -17.79 | peak |
| | | 30.22 | 13.99 | 44.21 | 54.00 | -9.79 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. For average power measurement, set the VBW refer to section 7.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

## 7.6.4. SPURIOUS EMISSIONS

Test Result Table:

| | | | | |
|---|---|---|---|---|
| 11B SISO | Antenna1 | LCH | <Limit | PASS |
| | | MCH | <Limit | PASS |
| | | HCH | <Limit | PASS |
| 11G SISO | Antenna1 | LCH | <Limit | PASS |
| | | MCH | <Limit | PASS |
| | | HCH | <Limit | PASS |
| 11N HT20 | Antenna1 | LCH | <Limit | PASS |
| | | MCH | <Limit | PASS |
| | | HCH | <Limit | PASS |

2) For 9KHz~30MHz

| Test Mode | Test Antenna | Channel | Puw(dBm) | Verdict |
|---|---|---|---|---|
| 11G | Antenna1 | LCH | <Limit | PASS |

Remark:
1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

3) For 30MHz~1GHz

| Test Mode | Test Antenna | Channel | Puw(dBm) | Verdict |
|---|---|---|---|---|
| 11G | Antenna1 | LCH | <Limit | PASS |

Remark:
1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

4) For 18GHz~26.5GHz

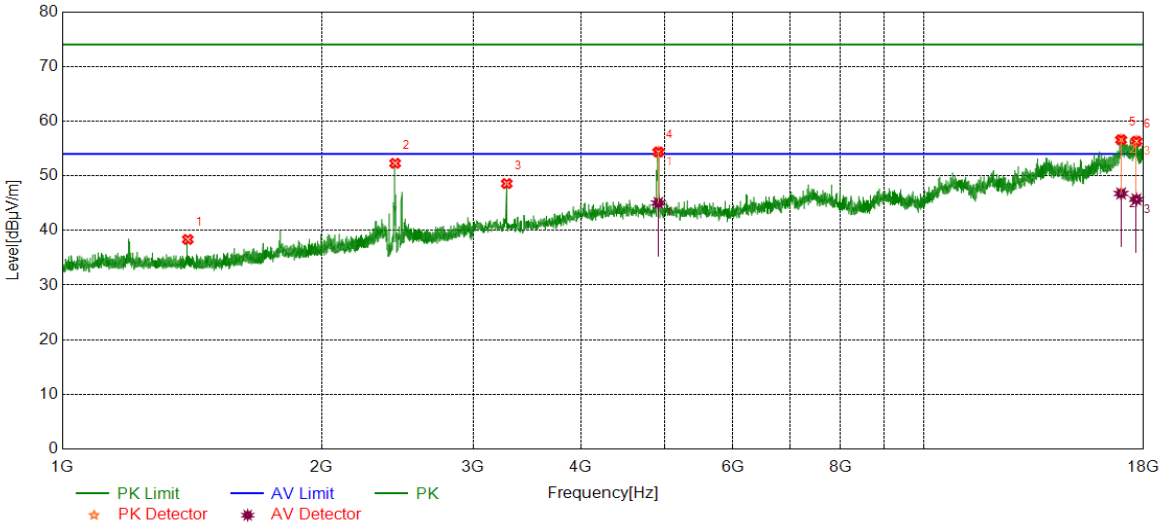
| Test Mode | Test Antenna | Channel | Puw(dBm) | Verdict |
|---|---|---|---|---|
| 11G | Antenna1 | LCH | <Limit | PASS |

Remark:
1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

## Part I: 1GHz~18GHz

### HARMONICS AND SPURIOUS EMISSIONS

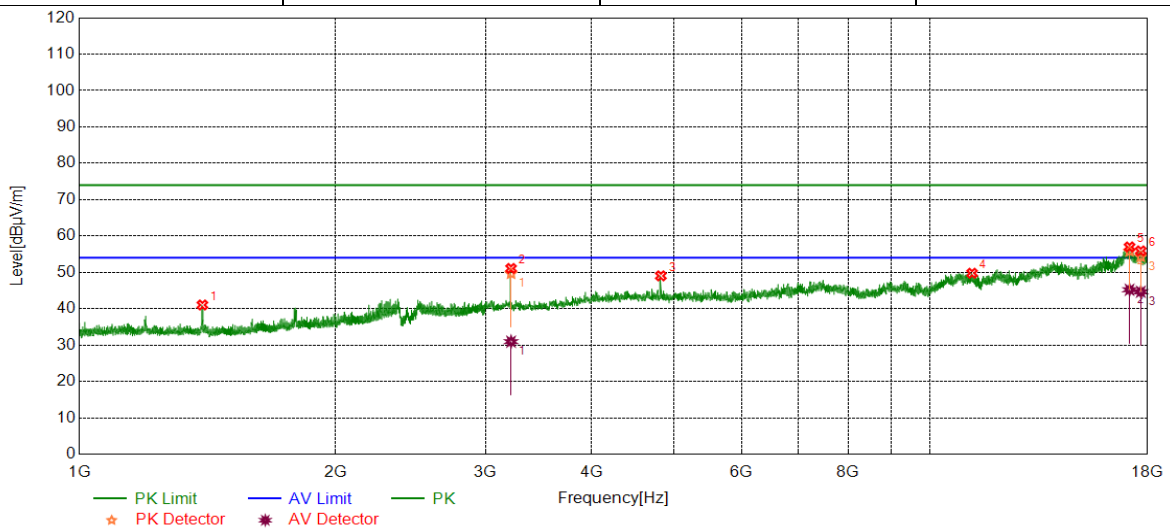
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1398.7999 | 43.92 | -5.57 | 38.35 | 74.00 | -35.65 | peak |
| 2 | 2434.6793 | 53.37 | -1.09 | 52.28 | 74.00 | -21.72 | peak |
| 3 | 3281.2852 | 46.20 | 2.37 | 48.57 | 74.00 | -25.43 | peak |
| 4 | 4920.2400 | 49.07 | 5.29 | 54.36 | 74.00 | -19.64 | peak |
| | | 39.73 | 5.29 | 45.02 | 54.00 | -8.98 | average |
| 5 | 16947.9935 | 36.71 | 19.89 | 56.60 | 74.00 | -17.40 | peak |
| | | 26.87 | 19.89 | 46.76 | 54.00 | -7.24 | average |
| 6 | 17654.9569 | 37.13 | 19.19 | 56.32 | 74.00 | -17.68 | peak |
| | | 26.49 | 19.19 | 45.68 | 54.00 | -8.32 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

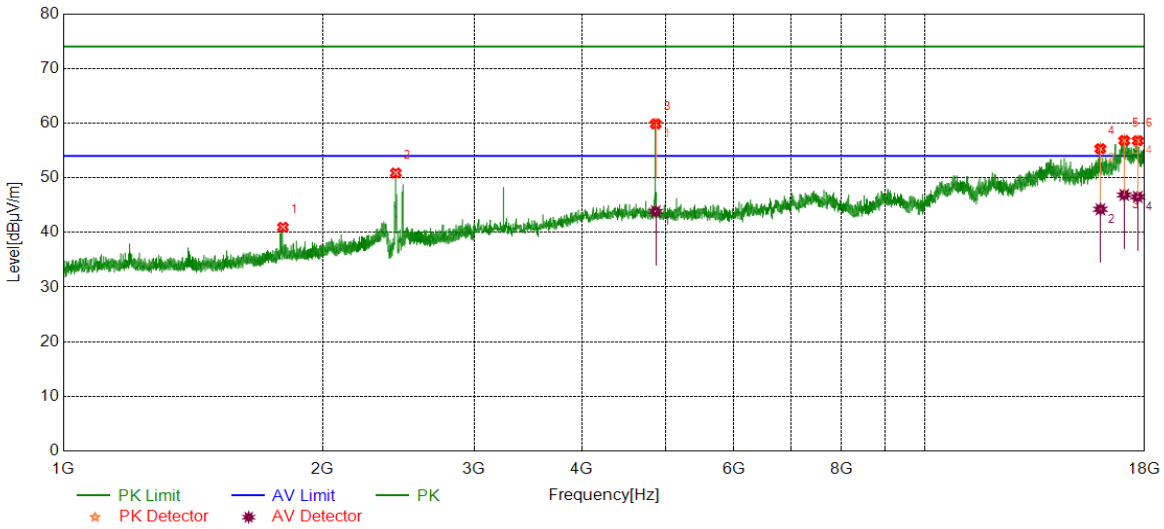
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | LCH | Vertical | PASS |




| No. | Frequency (MHz) | Reading Level (dBuV/m) | Correct Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 1394.7994 | 45.06 | -5.66 | 39.40 | 74.00 | -34.60 | peak |
| 2 | 2439.9300 | 49.33 | -1.05 | 48.28 | 74.00 | -25.72 | peak |
| 3 | 3281.2852 | 44.67 | 2.37 | 47.04 | 74.00 | -26.96 | peak |
| 4 | 4923.9905 | 50.96 | 5.22 | 56.18 | 74.00 | -17.82 | peak |
| | | 41.82 | 5.22 | 47.04 | 54.00 | -6.96 | average |
| 5 | 16951.7440 | 37.67 | 19.91 | 57.58 | 74.00 | -16.42 | peak |
| | | 26.73 | 19.91 | 46.64 | 54.00 | -7.36 | average |
| 6 | 17566.8209 | 37.53 | 19.18 | 56.71 | 74.00 | -17.29 | peak |
| | | 26.61 | 19.18 | 45.79 | 54.00 | -8.21 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

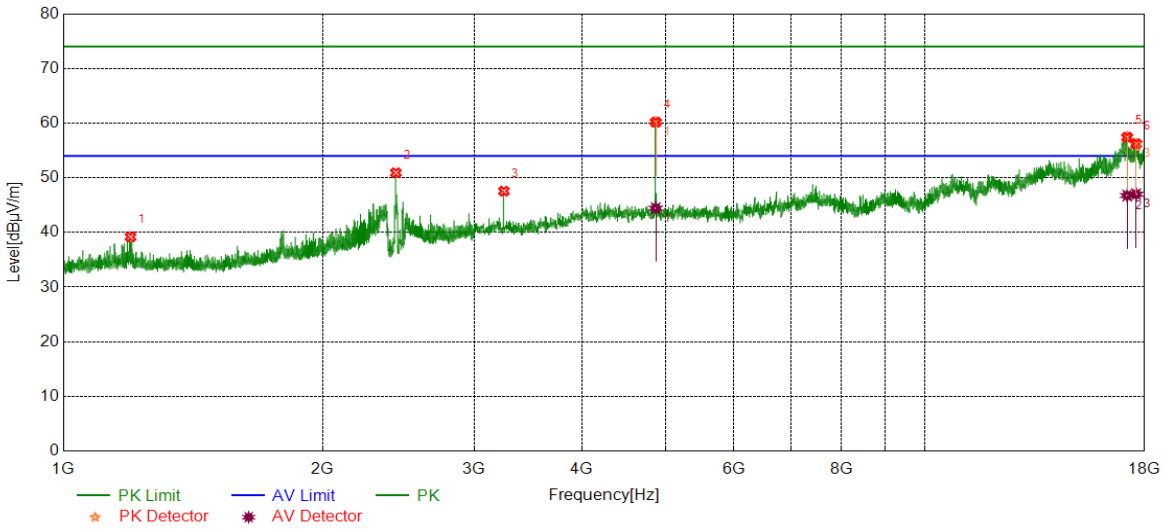
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | MCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1799.0999 | 44.84 | -3.89 | 40.95 | 74.00 | -33.05 | peak |
| 2 | 2432.6791 | 51.97 | -1.10 | 50.87 | 74.00 | -23.13 | peak |
| 3 | 4873.3592 | 54.65 | 5.21 | 59.86 | 74.00 | -14.14 | peak |
| | | 38.64 | 5.21 | 43.85 | 54.00 | -10.15 | average |
| 4 | 15991.6240 | 37.75 | 17.57 | 55.32 | 74.00 | -18.68 | peak |
| | | 26.67 | 17.57 | 44.24 | 54.00 | -9.76 | average |
| 5 | 17045.5057 | 36.88 | 19.94 | 56.82 | 74.00 | -17.18 | peak |
| | | 26.92 | 19.94 | 46.86 | 54.00 | -7.14 | average |
| 6 | 17671.8340 | 37.25 | 19.54 | 56.79 | 74.00 | -17.21 | peak |
| | | 26.97 | 19.54 | 46.51 | 54.00 | -7.49 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

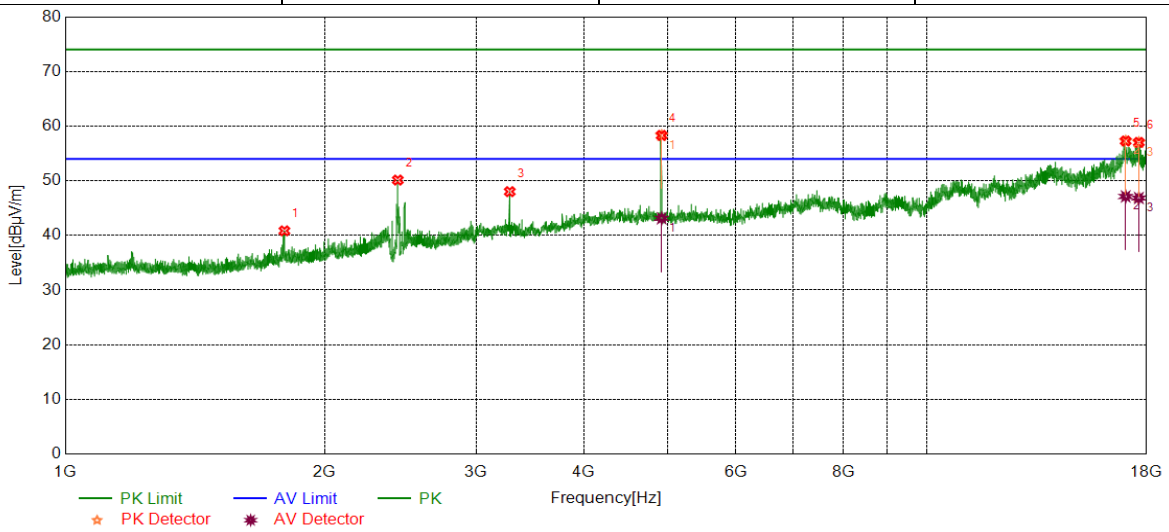
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | MCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1197.0246 | 44.73 | -5.54 | 39.19 | 74.00 | -34.81 | peak |
| 2 | 2432.9291 | 52.01 | -1.10 | 50.91 | 74.00 | -23.09 | peak |
| 3 | 3247.5309 | 45.75 | 1.80 | 47.55 | 74.00 | -26.45 | peak |
| 4 | 4873.3592 | 54.97 | 5.21 | 60.18 | 74.00 | -13.82 | peak |
| | | 39.22 | 5.21 | 44.43 | 54.00 | -9.57 | average |
| 5 | 17176.7721 | 37.88 | 19.54 | 57.42 | 74.00 | -16.58 | peak |
| | | 27.21 | 19.54 | 46.75 | 54.00 | -7.25 | average |
| 6 | 17598.6998 | 36.71 | 19.51 | 56.22 | 74.00 | -17.78 | peak |
| | | 27.48 | 19.51 | 46.99 | 54.00 | -7.01 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

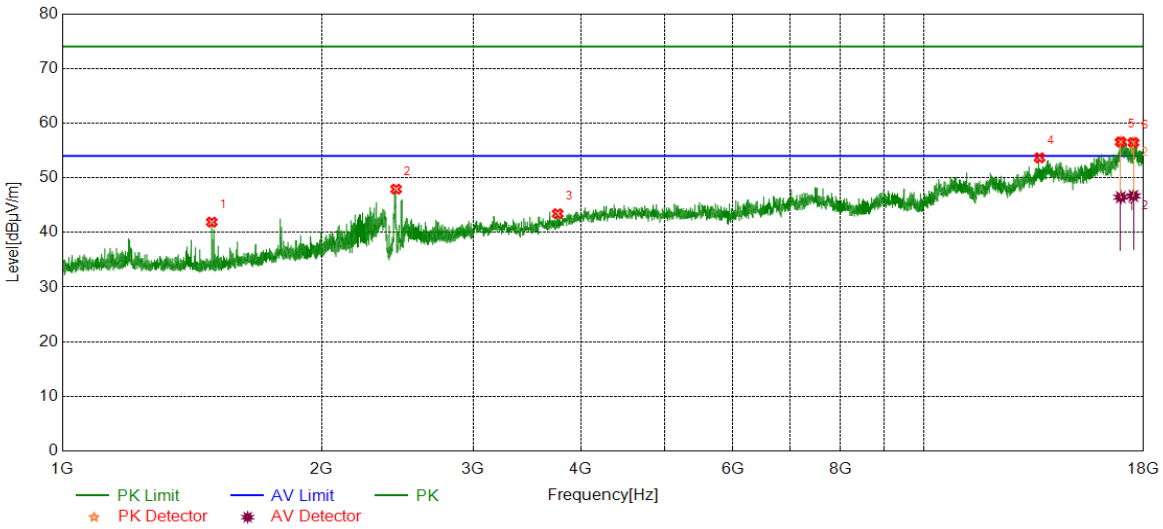
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | HCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1796.5996 | 44.75 | -3.91 | 40.84 | 74.00 | -33.16 | peak |
| 2 | 2432.4291 | 51.23 | -1.10 | 50.13 | 74.00 | -23.87 | peak |
| 3 | 3281.2852 | 45.64 | 2.37 | 48.01 | 74.00 | -25.99 | peak |
| 4 | 4923.9905 | 53.08 | 5.22 | 58.30 | 74.00 | -15.70 | peak |
| | | 37.91 | 5.22 | 43.13 | 54.00 | -10.87 | average |
| 5 | 17019.2524 | 37.17 | 20.11 | 57.28 | 74.00 | -16.72 | peak |
| | | 27.02 | 20.11 | 47.13 | 54.00 | -6.87 | average |
| 6 | 17630.5788 | 37.72 | 19.30 | 57.02 | 74.00 | -16.98 | peak |
| | | 27.55 | 19.30 | 46.85 | 54.00 | -7.15 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

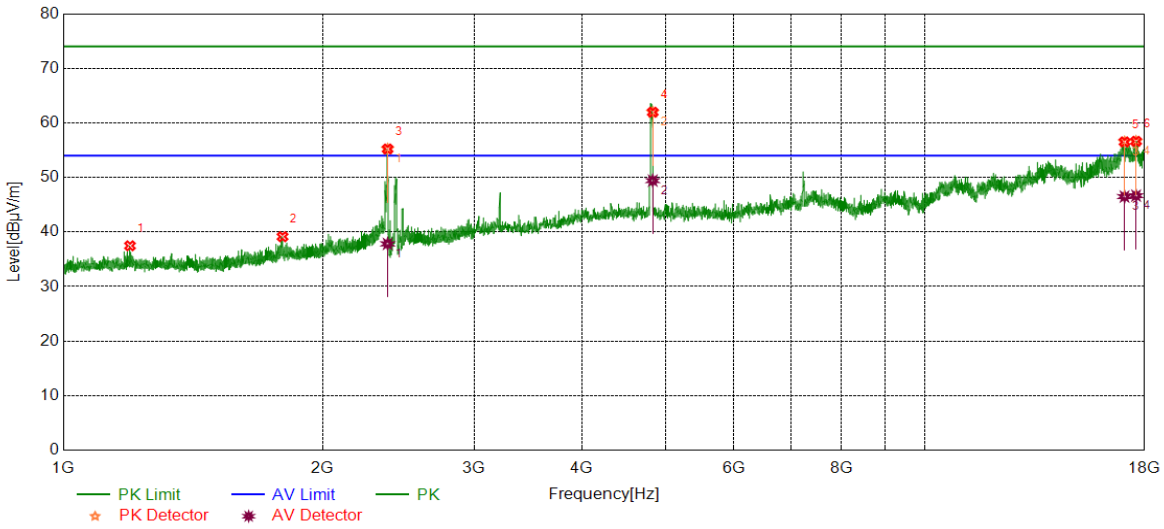
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11B | HCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1491.5614 | 47.69 | -5.80 | 41.89 | 74.00 | -32.11 | peak |
| 2 | 2440.9301 | 48.96 | -1.04 | 47.92 | 74.00 | -26.08 | peak |
| 3 | 3759.4699 | 40.16 | 3.27 | 43.43 | 74.00 | -30.57 | peak |
| 4 | 13628.8286 | 38.80 | 14.85 | 53.65 | 74.00 | -20.35 | peak |
| 5 | 16931.1164 | 37.50 | 19.07 | 56.57 | 74.00 | -17.43 | peak |
| | | 27.37 | 19.07 | 46.44 | 54.00 | -7.56 | average |
| 6 | 17514.3143 | 37.23 | 19.22 | 56.45 | 74.00 | -17.55 | peak |
| | | 27.46 | 19.22 | 46.68 | 54.00 | -7.32 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

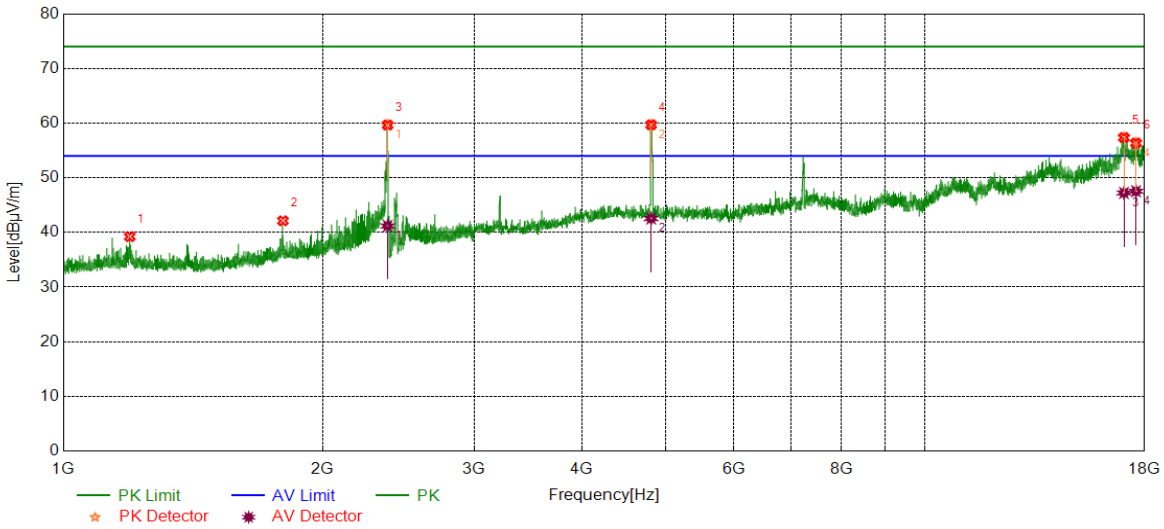
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1195.5244 | 43.01 | -5.54 | 37.47 | 74.00 | -36.53 | peak |
| 2 | 1797.0996 | 43.05 | -3.91 | 39.14 | 74.00 | -34.86 | peak |
| 3 | 2379.9225 | 56.72 | -1.50 | 55.22 | 74.00 | -18.78 | peak |
| | | 39.32 | -1.50 | 37.82 | 54.00 | -16.18 | average |
| 4 | 4833.9792 | 56.99 | 4.97 | 61.96 | 74.00 | -12.04 | peak |
| | | 44.45 | 4.97 | 49.42 | 54.00 | -4.58 | average |
| 5 | 17058.6323 | 36.01 | 20.51 | 56.52 | 74.00 | -17.48 | peak |
| | | 25.98 | 20.51 | 46.49 | 54.00 | -7.51 | average |
| 6 | 17593.0741 | 37.02 | 19.61 | 56.63 | 74.00 | -17.37 | peak |
| | | 27.05 | 19.61 | 46.66 | 54.00 | -7.34 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

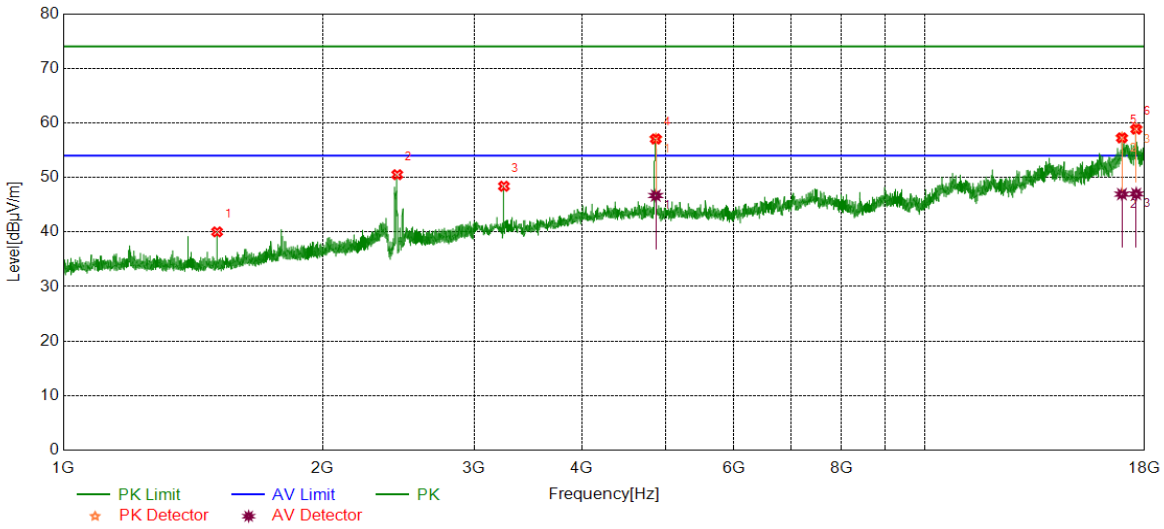
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1194.7743 | 44.78 | -5.55 | 39.23 | 74.00 | -34.77 | peak |
| 2 | 1799.0999 | 46.02 | -3.89 | 42.13 | 74.00 | -31.87 | peak |
| 3 | 2380.1725 | 61.16 | -1.50 | 59.66 | 74.00 | -14.34 | peak |
| | | 42.69 | -1.50 | 41.19 | 54.00 | -12.81 | average |
| 4 | 4813.3517 | 54.73 | 4.97 | 59.70 | 74.00 | -14.30 | peak |
| | | 47.58 | 4.97 | 42.55 | 54.00 | -11.45 | average |
| 5 | 17030.5038 | 37.19 | 20.18 | 57.37 | 74.00 | -16.63 | peak |
| | | 27.05 | 20.18 | 47.23 | 54.00 | -6.77 | average |
| 6 | 17591.1989 | 36.72 | 19.65 | 56.37 | 74.00 | -17.63 | peak |
| | | 27.89 | 19.65 | 47.54 | 54.00 | -6.46 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

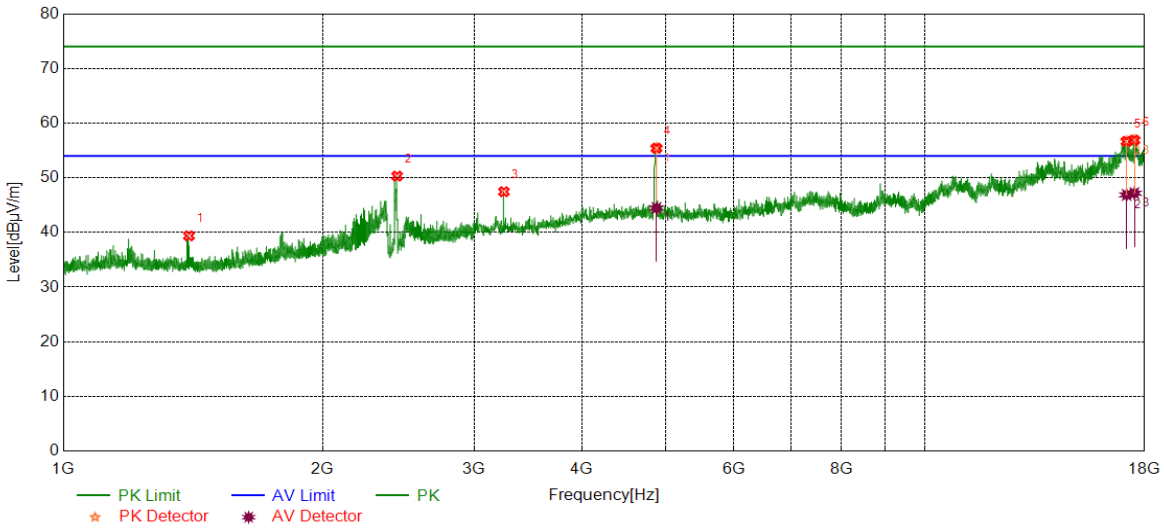
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | MCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1508.8136 | 45.85 | -5.83 | 40.02 | 74.00 | -33.98 | peak |
| 2 | 2441.9302 | 51.55 | -1.04 | 50.51 | 74.00 | -23.49 | peak |
| 3 | 3247.5309 | 46.59 | 1.80 | 48.39 | 74.00 | -25.61 | peak |
| 4 | 4873.3592 | 51.85 | 5.21 | 57.06 | 74.00 | -16.94 | peak |
| | | 41.47 | 5.21 | 46.68 | 54.00 | -7.32 | average |
| 5 | 16940.4926 | 37.18 | 20.08 | 57.26 | 74.00 | -16.74 | peak |
| | | 26.86 | 20.08 | 46.94 | 54.00 | -7.06 | average |
| 6 | 17600.5751 | 39.43 | 19.43 | 58.86 | 74.00 | -15.14 | peak |
| | | 27.55 | 19.43 | 46.98 | 54.00 | -7.02 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

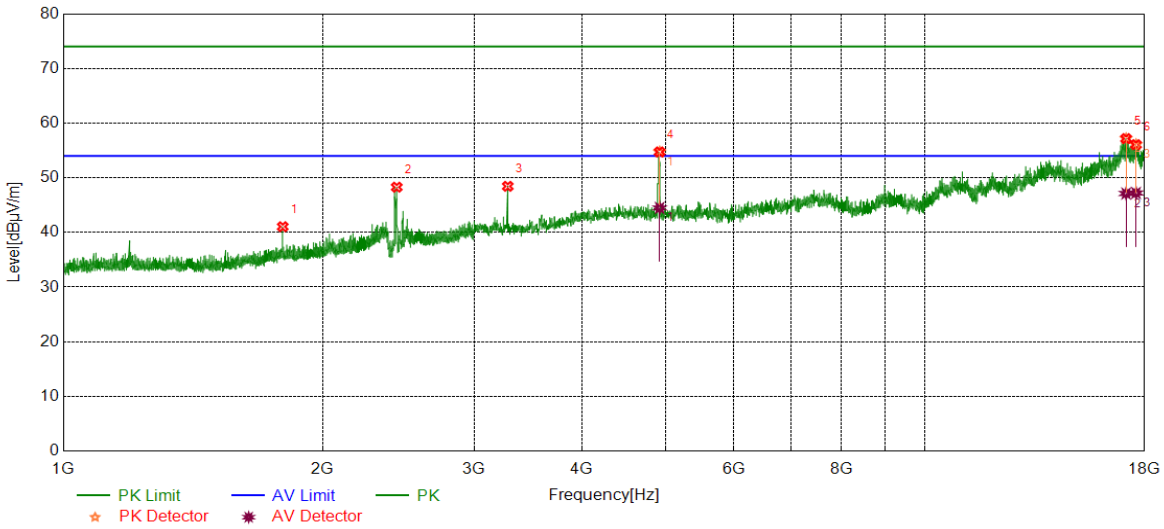
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | MCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1399.5499 | 44.93 | -5.55 | 39.38 | 74.00 | -34.62 | peak |
| 2 | 2441.1801 | 51.35 | -1.04 | 50.31 | 74.00 | -23.69 | peak |
| 3 | 3247.5309 | 45.65 | 1.80 | 47.45 | 74.00 | -26.55 | peak |
| 4 | 4882.7353 | 50.29 | 5.13 | 55.42 | 74.00 | -18.58 | peak |
| | | 39.33 | 5.13 | 44.46 | 54.00 | -9.54 | average |
| 5 | 17150.5188 | 36.93 | 19.74 | 56.67 | 74.00 | -17.33 | peak |
| | | 27.13 | 19.74 | 46.87 | 54.00 | -7.13 | average |
| 6 | 17514.3143 | 37.68 | 19.22 | 56.90 | 74.00 | -17.10 | peak |
| | | 27.96 | 19.22 | 47.18 | 54.00 | -6.82 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

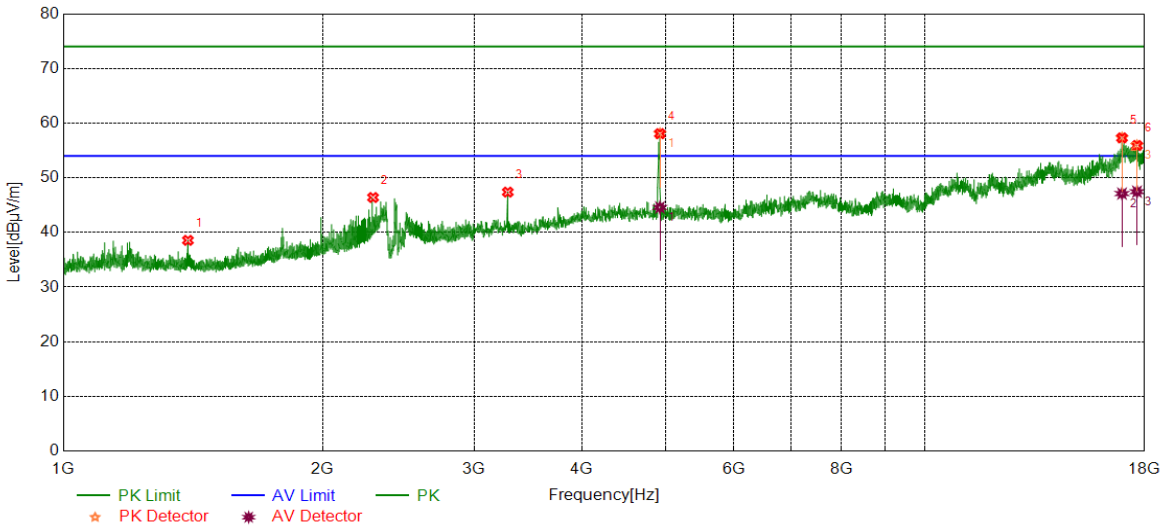
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | HCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1798.0998 | 44.95 | -3.90 | 41.05 | 74.00 | -32.95 | peak |
| 2 | 2438.6798 | 49.34 | -1.06 | 48.28 | 74.00 | -25.72 | peak |
| 3 | 3281.2852 | 46.07 | 2.37 | 48.44 | 74.00 | -25.56 | peak |
| 4 | 4923.9905 | 49.51 | 5.22 | 54.73 | 74.00 | -19.27 | peak |
| | | 39.26 | 5.22 | 44.48 | 54.00 | -9.52 | average |
| 5 | 17129.8912 | 37.88 | 19.29 | 57.17 | 74.00 | -16.83 | peak |
| | | 27.83 | 19.29 | 47.12 | 54.00 | -6.88 | average |
| 6 | 17591.1989 | 36.41 | 19.65 | 56.06 | 74.00 | -17.94 | peak |
| | | 27.57 | 19.65 | 47.22 | 54.00 | -6.78 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

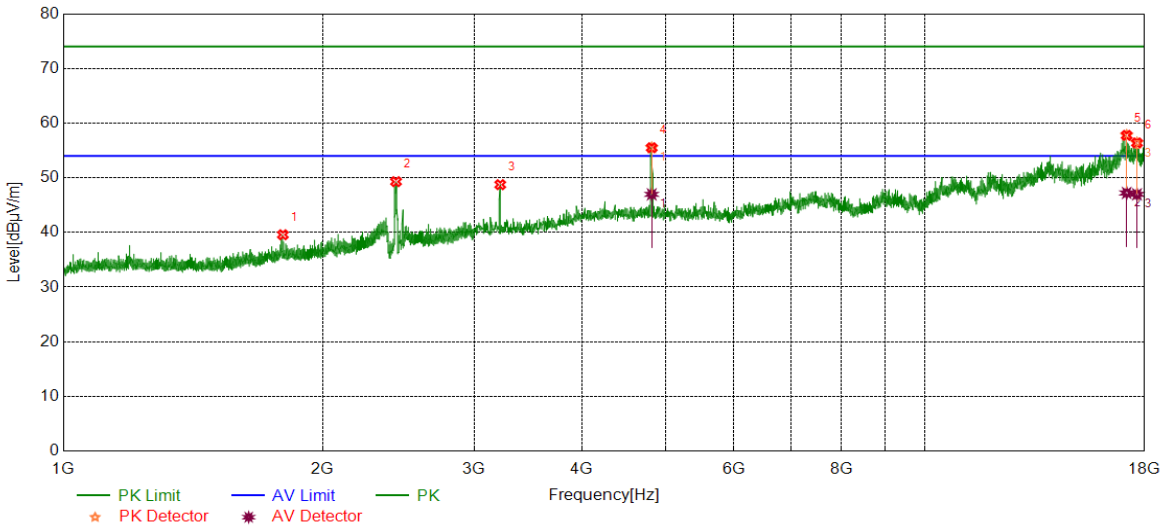
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | HCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1395.7995 | 44.18 | -5.63 | 38.55 | 74.00 | -35.45 | peak |
| 2 | 2288.9111 | 48.44 | -2.05 | 46.39 | 74.00 | -27.61 | peak |
| 3 | 3281.2852 | 45.01 | 2.37 | 47.38 | 74.00 | -26.62 | peak |
| 4 | 4927.7410 | 52.93 | 5.15 | 58.08 | 74.00 | -15.92 | peak |
| | | 39.42 | 5.15 | 44.57 | 54.00 | -9.43 | average |
| 5 | 16944.2430 | 37.31 | 19.99 | 57.30 | 74.00 | -16.70 | peak |
| | | 27.12 | 19.99 | 47.11 | 54.00 | -6.89 | average |
| 6 | 17636.2045 | 36.53 | 19.38 | 55.91 | 74.00 | -18.09 | peak |
| | | 28.08 | 19.38 | 47.46 | 54.00 | -6.54 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

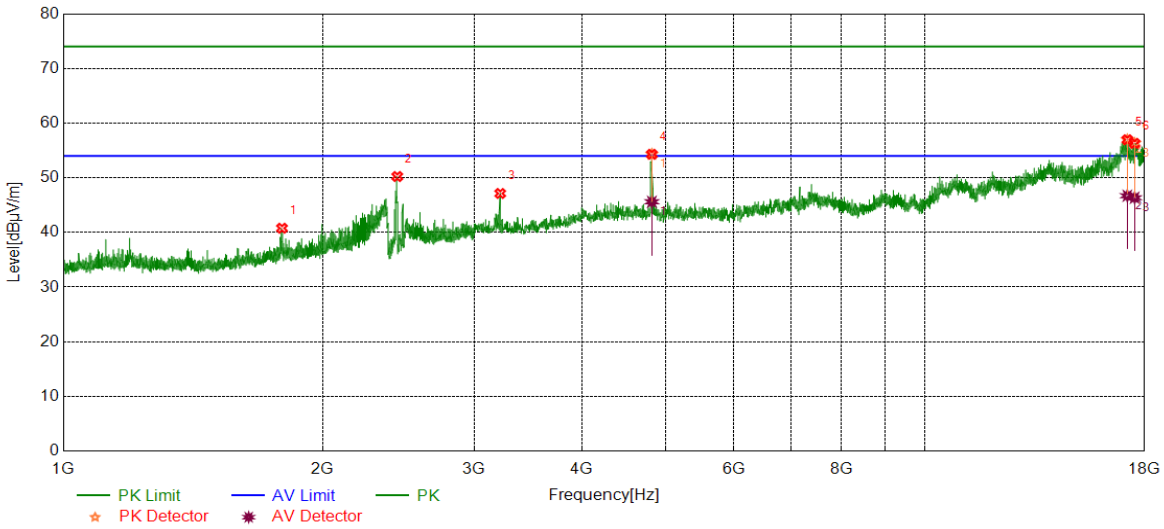
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1798.8499 | 43.47 | -3.89 | 39.58 | 74.00 | -34.42 | peak |
| 2 | 2433.9292 | 50.38 | -1.09 | 49.29 | 74.00 | -24.71 | peak |
| 3 | 3215.6520 | 46.93 | 1.81 | 48.74 | 74.00 | -25.26 | peak |
| 4 | 4820.8526 | 50.55 | 4.95 | 55.50 | 74.00 | -18.50 | peak |
| | | 42.02 | 4.95 | 46.97 | 54.00 | -7.03 | average |
| 5 | 17156.1445 | 38.02 | 19.74 | 57.76 | 74.00 | -16.24 | peak |
| | | 27.48 | 19.74 | 47.22 | 54.00 | -6.78 | average |
| 6 | 17636.2045 | 37.00 | 19.38 | 56.38 | 74.00 | -17.62 | peak |
| | | 27.60 | 19.38 | 46.98 | 54.00 | -7.02 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

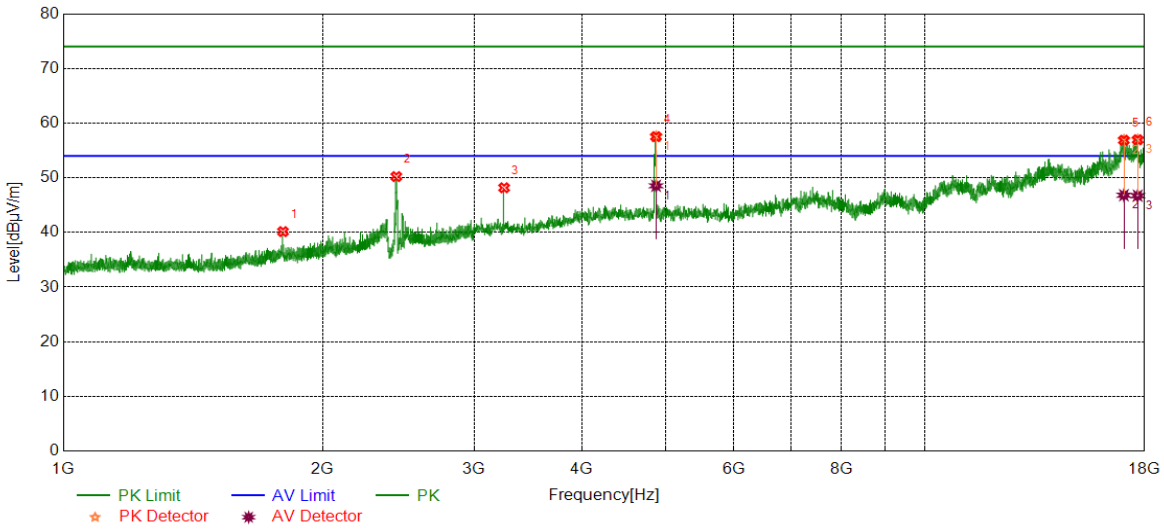
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | LCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1794.5993 | 44.71 | -3.94 | 40.77 | 74.00 | -33.23 | peak |
| 2 | 2442.1803 | 51.26 | -1.03 | 50.23 | 74.00 | -23.77 | peak |
| 3 | 3215.6520 | 45.32 | 1.81 | 47.13 | 74.00 | -26.87 | peak |
| 4 | 4822.7278 | 49.36 | 4.94 | 54.30 | 74.00 | -19.70 | peak |
| | | 40.67 | 4.94 | 45.61 | 54.00 | -8.39 | average |
| 5 | 17186.1483 | 37.40 | 19.56 | 56.96 | 74.00 | -17.04 | peak |
| | | 27.15 | 19.56 | 46.71 | 54.00 | -7.29 | average |
| 6 | 17525.5657 | 37.16 | 19.14 | 56.30 | 74.00 | -17.70 | peak |
| | | 27.21 | 19.14 | 46.35 | 54.00 | -7.65 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

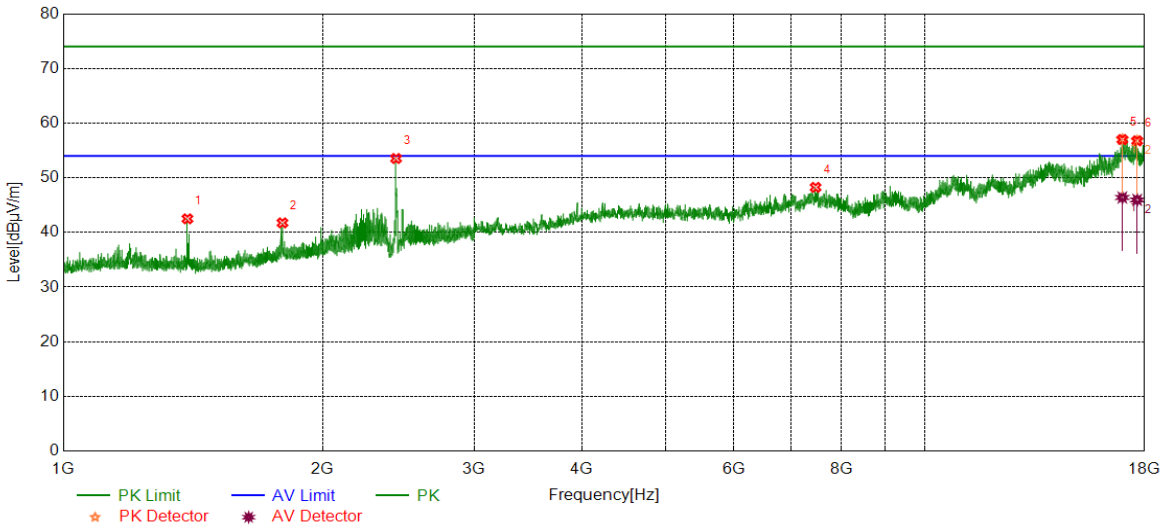
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | MCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1799.3499 | 44.03 | -3.88 | 40.15 | 74.00 | -33.85 | peak |
| 2 | 2435.9295 | 51.30 | -1.08 | 50.22 | 74.00 | -23.78 | peak |
| 3 | 3249.4062 | 46.35 | 1.82 | 48.17 | 74.00 | -25.83 | peak |
| 4 | 4877.1096 | 52.36 | 5.17 | 57.53 | 74.00 | -16.47 | peak |
| | | 43.36 | 5.17 | 48.53 | 54.00 | -5.47 | average |
| 5 | 17030.5038 | 36.70 | 20.18 | 56.88 | 74.00 | -17.12 | peak |
| | | 26.63 | 20.18 | 46.81 | 54.00 | -7.19 | average |
| 6 | 17669.9587 | 37.26 | 19.70 | 56.96 | 74.00 | -17.04 | peak |
| | | 27.02 | 19.70 | 46.72 | 54.00 | -7.28 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

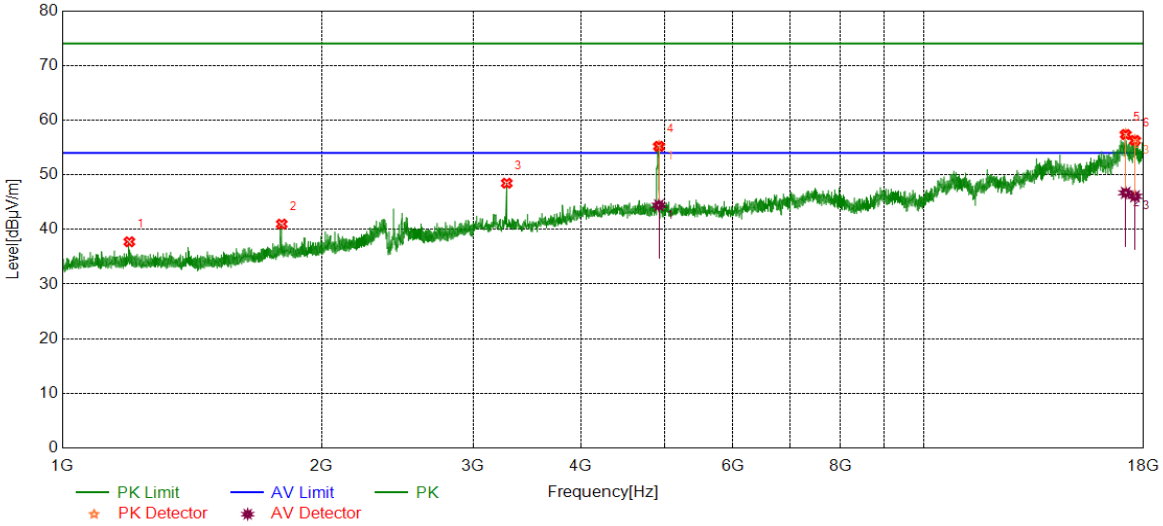
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | MCH | Vertical | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1393.7992 | 48.17 | -5.68 | 42.49 | 74.00 | -31.51 | peak |
| 2 | 1796.8496 | 45.66 | -3.91 | 41.75 | 74.00 | -32.25 | peak |
| 3 | 2434.4293 | 54.62 | -1.09 | 53.53 | 74.00 | -20.47 | peak |
| 4 | 7470.5588 | 38.82 | 9.43 | 48.25 | 74.00 | -25.75 | peak |
| 5 | 16959.2449 | 36.79 | 20.21 | 57.00 | 74.00 | -17.00 | peak |
| | | 26.18 | 20.21 | 46.39 | 54.00 | -7.61 | average |
| 6 | 17645.5807 | 37.55 | 19.22 | 56.77 | 74.00 | -17.23 | peak |
| | | 26.73 | 19.22 | 45.95 | 54.00 | -8.05 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

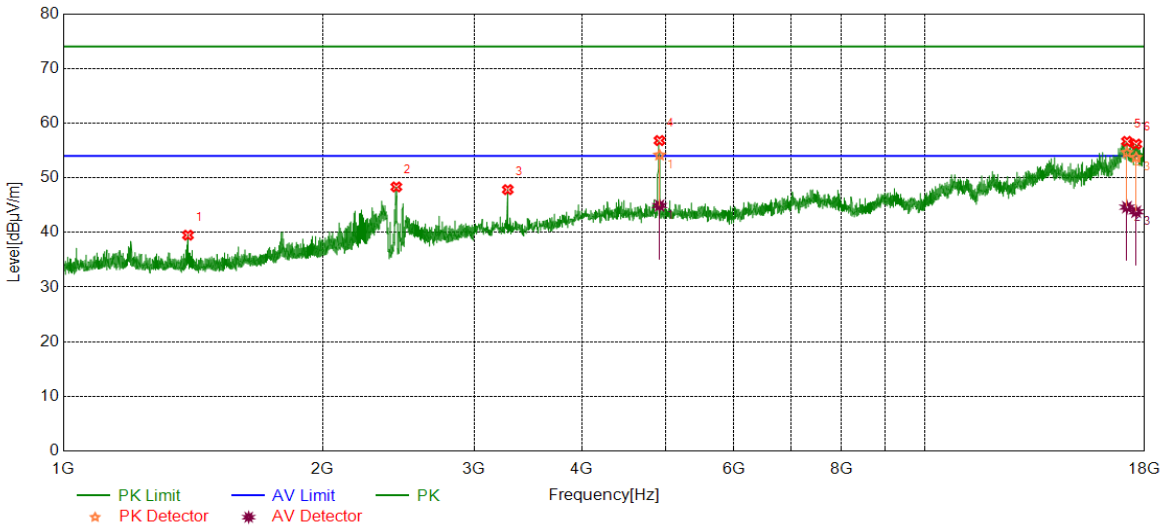
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | HCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1196.5246 | 43.28 | -5.54 | 37.74 | 74.00 | -36.26 | peak |
| 2 | 1798.0998 | 44.88 | -3.90 | 40.98 | 74.00 | -33.02 | peak |
| 3 | 3281.2852 | 46.09 | 2.37 | 48.46 | 74.00 | -25.54 | peak |
| 4 | 4927.7410 | 50.06 | 5.15 | 55.21 | 74.00 | -18.79 | peak |
| | | 39.27 | 5.15 | 44.42 | 54.00 | -9.58 | average |
| 5 | 17156.1445 | 37.63 | 19.74 | 57.37 | 74.00 | -16.63 | peak |
| | | 26.96 | 19.74 | 46.70 | 54.00 | -7.30 | average |
| 6 | 17587.4484 | 36.89 | 19.39 | 56.28 | 74.00 | -17.72 | peak |
| | | 26.67 | 19.39 | 46.06 | 54.00 | -7.94 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11N HT20 | HCH | Vertical | PASS |



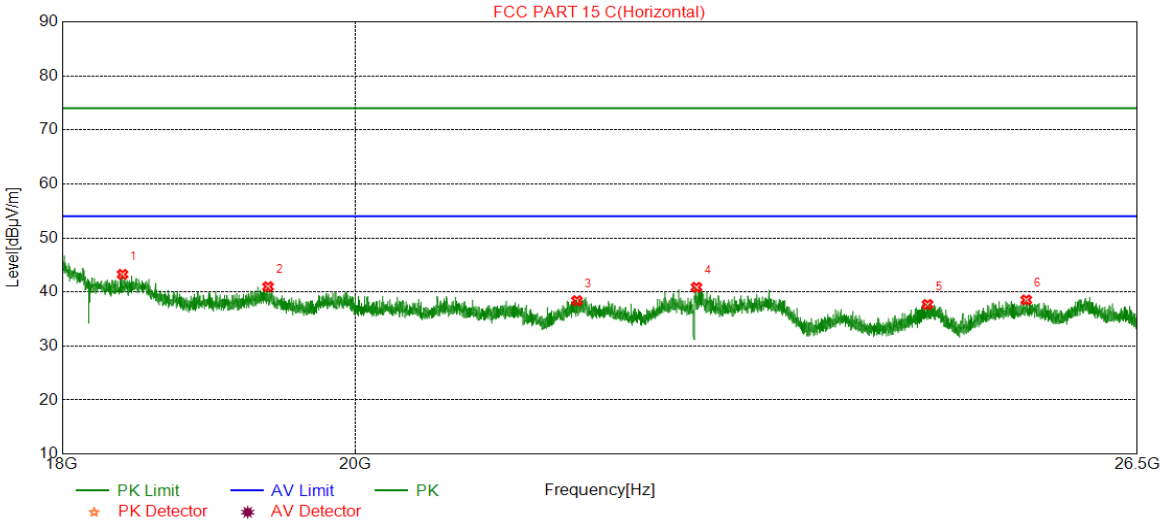

| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1395.7995 | 45.13 | -5.63 | 39.50 | 74.00 | -34.50 | peak |
| 2 | 2435.9295 | 49.41 | -1.08 | 48.33 | 74.00 | -25.67 | peak |
| 3 | 3281.2852 | 45.46 | 2.37 | 47.83 | 74.00 | -26.17 | peak |
| 4 | 4922.1153 | 51.55 | 5.26 | 56.81 | 74.00 | -17.19 | peak |
| | | 39.66 | 5.26 | 44.92 | 54.00 | -9.08 | average |
| 5 | 17169.2712 | 37.21 | 19.45 | 56.66 | 74.00 | -17.34 | peak |
| | | 25.17 | 19.45 | 44.62 | 54.00 | -9.38 | average |
| 6 | 17596.8246 | 36.62 | 19.54 | 56.16 | 74.00 | -17.84 | peak |
| | | 24.24 | 19.54 | 43.78 | 54.00 | -10.22 | average |

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. AVG: VBW refer to section 7.1.
6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

## Part II: 18GHz~26.5GHz

### SPURIOUS EMISSIONS 18GHz TO 26.5GHz (WORST-CASE CONFIGURATION)

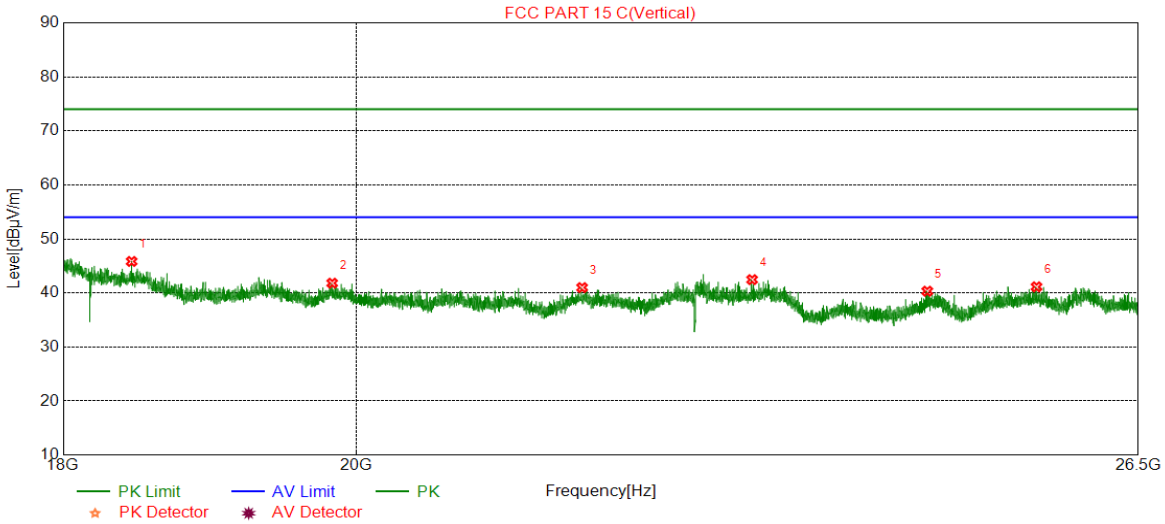
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 18395.2895 | 44.23 | -0.97 | 43.26 | 74.00 | -30.74 | peak |
| 2 | 19383.9384 | 41.79 | -0.81 | 40.98 | 74.00 | -33.02 | peak |
| 3 | 21663.0163 | 38.69 | -0.29 | 38.40 | 74.00 | -35.60 | peak |
| 4 | 22615.1115 | 39.93 | 0.93 | 40.86 | 74.00 | -33.14 | peak |
| 5 | 24575.4075 | 38.17 | -0.48 | 37.69 | 74.00 | -36.31 | peak |
| 6 | 25464.5965 | 37.74 | 0.79 | 38.53 | 74.00 | -35.47 | peak |

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Vertical | PASS |



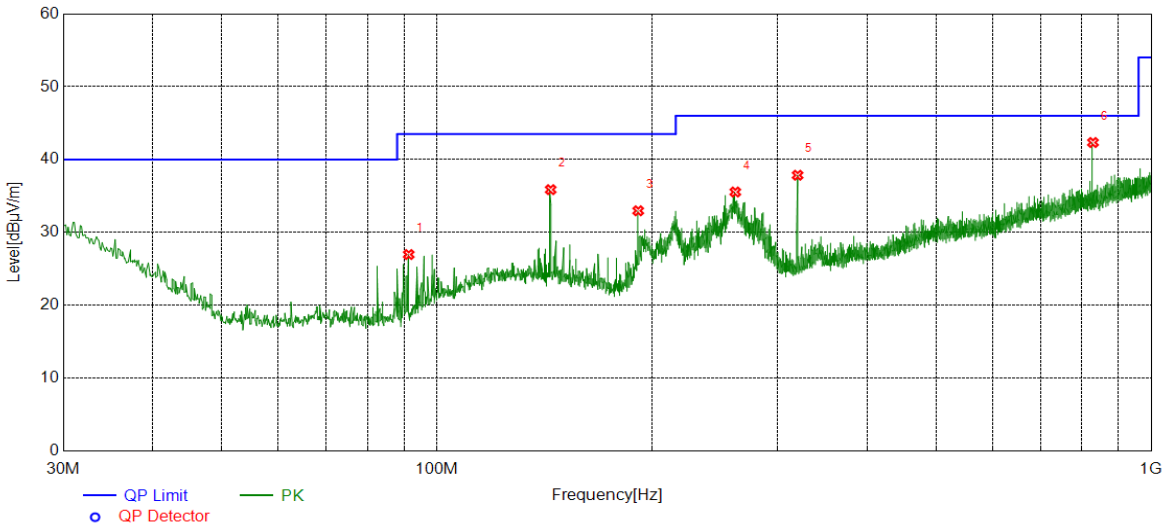

| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 18448.8449 | 46.79 | -0.95 | 45.84 | 74.00 | -28.16 | peak |
| 2 | 19829.3829 | 42.43 | -0.61 | 41.82 | 74.00 | -32.18 | peak |
| 3 | 21695.3195 | 41.24 | -0.24 | 41.00 | 74.00 | -33.00 | peak |
| 4 | 23063.9564 | 41.42 | 1.05 | 42.47 | 74.00 | -31.53 | peak |
| 5 | 24564.3564 | 40.82 | -0.49 | 40.33 | 74.00 | -33.67 | peak |
| 6 | 25549.6050 | 40.21 | 0.93 | 41.14 | 74.00 | -32.86 | peak |

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

## Part III: 30MHz~1GHz

### SPURIOUS EMISSIONS 30M TO 1GHHz (WORST-CASE CONFIGURATION)

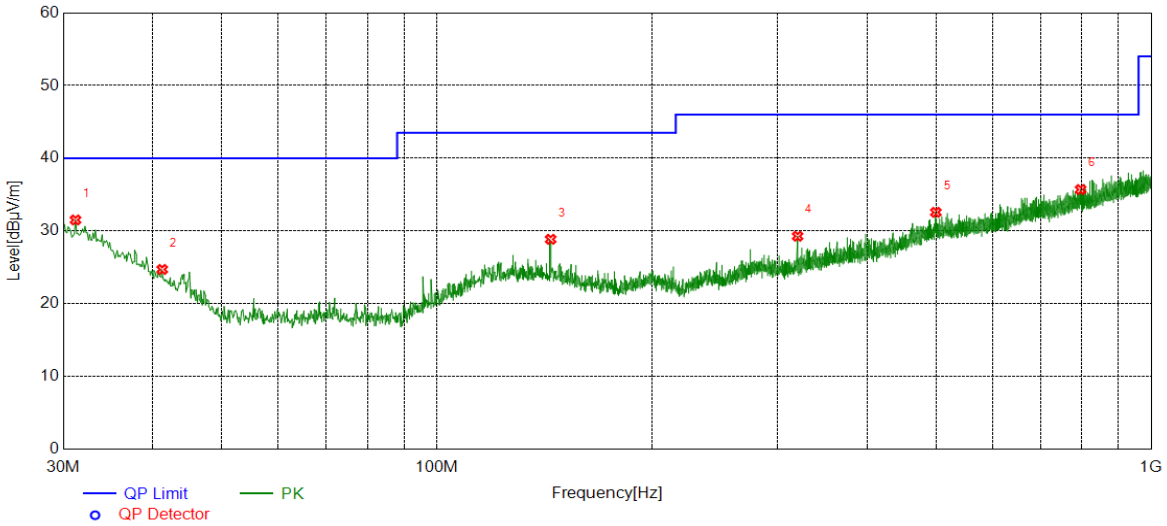
| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Horizontal | PASS |




| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 91.3602 | 12.27 | 14.70 | 26.97 | 43.50 | -16.53 | peak |
| 2 | 144.3530 | 16.20 | 19.67 | 35.87 | 43.50 | -7.63 | peak |
| 3 | 191.4039 | 14.40 | 18.57 | 32.97 | 43.50 | -10.53 | peak |
| 4 | 261.7377 | 16.36 | 19.19 | 35.55 | 46.00 | -10.45 | peak |
| 5 | 319.9450 | 16.93 | 20.92 | 37.85 | 46.00 | -8.15 | peak |
| 6 | 828.8949 | 12.18 | 30.16 | 42.34 | 46.00 | -3.66 | peak |

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

| Test Mode | Channel | Polarization | Verdict |
|---|---|---|---|
| 11G | LCH | Vertical | PASS |



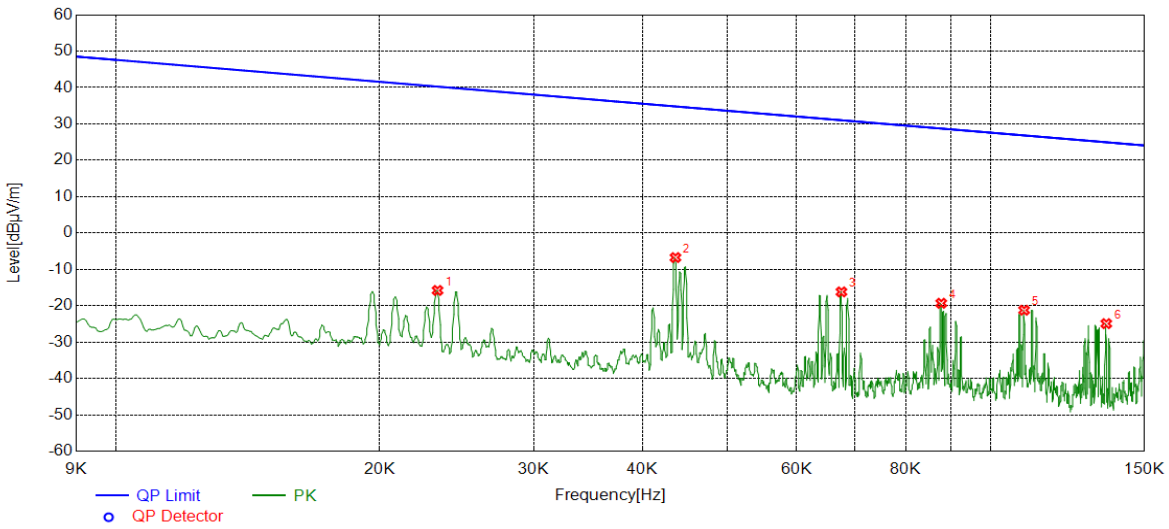

| No. | Frequency | Reading Level | Correct Factor | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 31.2127 | 5.14 | 26.38 | 31.52 | 40.00 | -8.48 | peak |
| 2 | 41.2777 | 4.73 | 19.98 | 24.71 | 40.00 | -15.29 | peak |
| 3 | 144.3530 | 9.19 | 19.67 | 28.86 | 43.50 | -14.64 | peak |
| 4 | 319.9450 | 8.36 | 20.92 | 29.28 | 46.00 | -16.72 | peak |
| 5 | 499.5387 | 6.85 | 25.72 | 32.57 | 46.00 | -13.43 | peak |
| 6 | 796.5171 | 5.96 | 29.74 | 35.70 | 46.00 | -10.30 | peak |

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

## Part IV: 9KHz~30MHz

### SPURIOUS EMISSIONS Below 30MHz (WORST CASE CONFIGURATION-FACE ON)

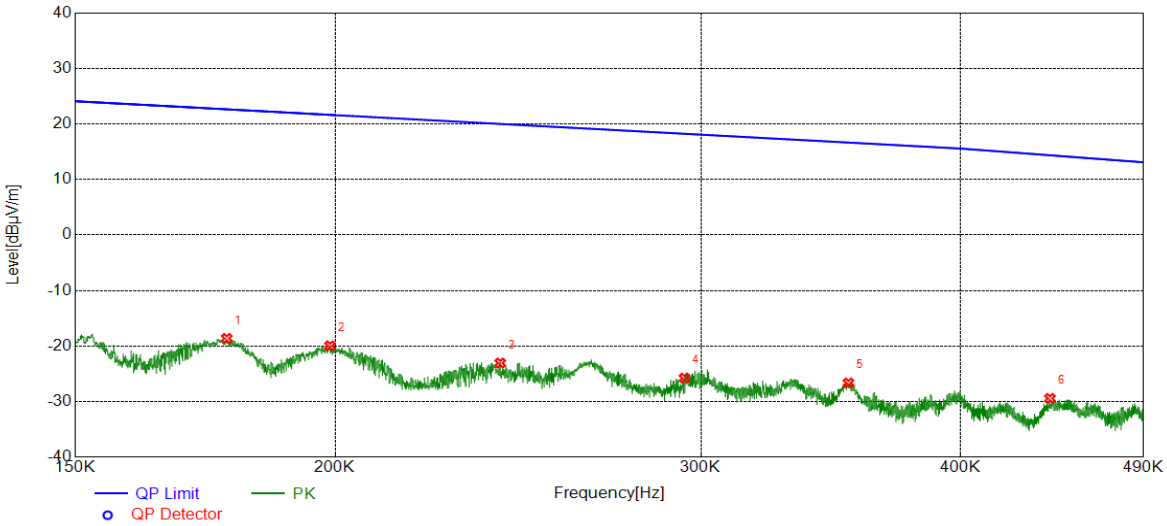
| Test Mode | Channel | Frequency Range | Verdict |
|---|---|---|---|
| 11G | LCH | 9KHz~150KHz | PASS |




| No. | Frequency | Reading | Correct | FCC Result | FCC Limit | ISED Result | ISED Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dBuA/m) | (dBuA/m) | (dB) | |
| 1 | 0.0233 | 45.19 | -60.98 | -15.79 | 40.26 | -67.29 | -11.24 | -56.05 | peak |
| 2 | 0.0436 | 54.36 | -61.11 | -6.75 | 34.82 | -58.25 | -16.68 | -41.57 | peak |
| 3 | 0.0675 | 45.25 | -61.44 | -16.19 | 31.02 | -67.69 | -20.48 | -47.21 | peak |
| 4 | 0.0878 | 41.88 | -61.20 | -19.32 | 28.74 | -70.82 | -22.76 | -48.06 | peak |
| 5 | 0.1092 | 39.73 | -60.96 | -21.23 | 26.84 | -72.73 | -24.66 | -48.07 | peak |
| 6 | 0.1356 | 36.36 | -61.28 | -24.92 | 24.96 | -76.42 | -26.54 | -49.88 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. Result 300m= Result 3m-80 dBuV/m
3. dBuA/m=(dBuV/m)-20log(120π)= dBuV-51.5.
4. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
5. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

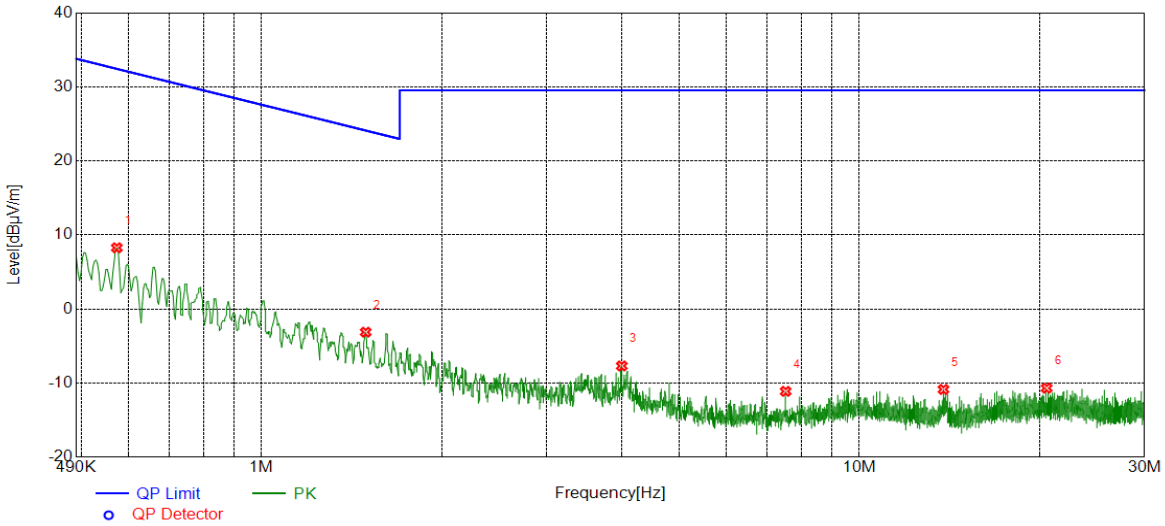
| Test Mode | Channel | Frequency Range | Verdict |
|---|---|---|---|
| 11G | LCH | 150KHz~490KHz | PASS |




| No. | Frequency | Reading | Correct | FCC Result | FCC Limit | ISED Result | ISED Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dBuA/m) | (dBuA/m) | (dB) | |
| 1 | 0.1774 | 42.68 | -61.31 | -18.63 | 22.63 | -70.13 | -28.87 | -41.26 | peak |
| 2 | 0.1989 | 41.24 | -61.20 | -19.96 | 21.63 | -71.46 | -29.87 | -41.59 | peak |
| 3 | 0.2402 | 37.93 | -60.99 | -23.06 | 19.99 | -74.56 | -31.51 | -43.05 | peak |
| 4 | 0.2946 | 35.12 | -60.90 | -25.78 | 18.22 | -77.28 | -33.28 | -44.00 | peak |
| 5 | 0.3533 | 34.20 | -60.85 | -26.65 | 16.64 | -78.15 | -34.86 | -43.29 | peak |
| 6 | 0.4417 | 31.35 | -60.78 | -29.43 | 14.35 | -80.93 | -37.15 | -43.78 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. Result 300m= Result 3m-80 dBuV/m
3. dBuA/m=(dBuV/m)-20log(120π)= dBuV-51.5.
4. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
5. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

| Test Mode | Channel | Frequency Range | Verdict |
|---|---|---|---|
| 11G | LCH | 490KHz~30MHz | PASS |




| No. | Frequency | Reading | Correct | FCC Result | FCC Limit | ISED Result | ISED Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dBuA/m) | (dBuA/m) | (dB) | |
| 1 | 0.5726 | 29.02 | -20.75 | 8.27 | 32.45 | -43.23 | -19.05 | -24.18 | peak |
| 2 | 1.4934 | 17.28 | -20.41 | -3.13 | 24.12 | -54.63 | -27.38 | -27.25 | peak |
| 3 | 4.0050 | 12.47 | -20.16 | -7.69 | 29.54 | -59.19 | -21.96 | -37.23 | peak |
| 4 | 7.5288 | 8.55 | -19.67 | -11.12 | 29.54 | -62.62 | -21.96 | -40.66 | peak |
| 5 | 13.8240 | 8.44 | -19.30 | -10.86 | 29.54 | -62.36 | -21.96 | -40.40 | peak |
| 6 | 20.5706 | 6.83 | -17.52 | -10.69 | 29.54 | -62.19 | -21.96 | -40.23 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.
2. Result 300m= Result 3m-80 dBuV/m
3. dBuA/m=(dBuV/m)-20log(120π)= dBuV-51.5.
4. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
5. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

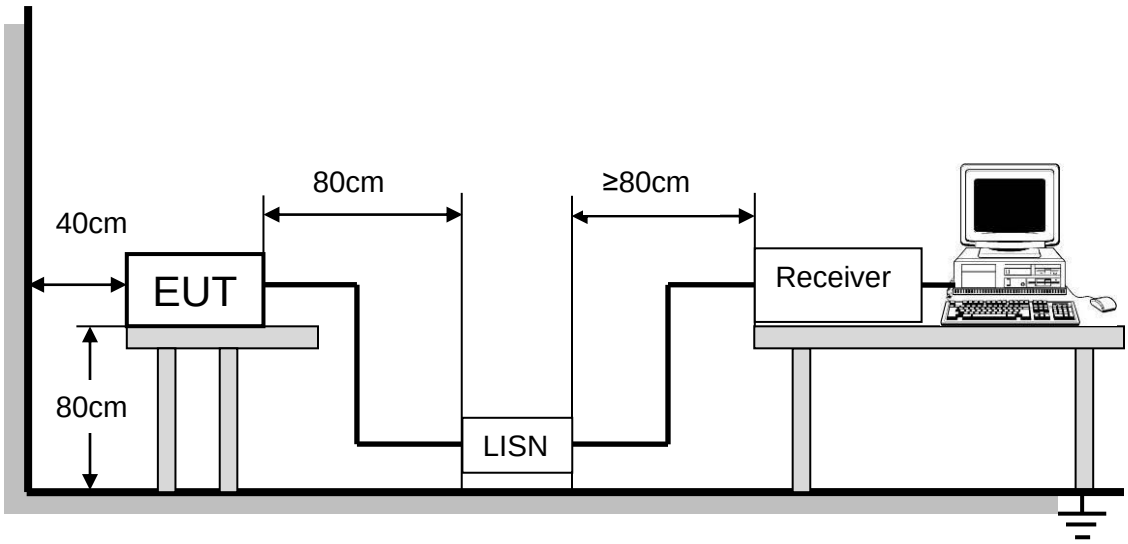
## 7.7. AC POWER LINE CONDUCTED EMISSIONS

**LIMITS**

Please refer to FCC §15.207 (a)

| FREQUENCY (MHz) | Limit (dBuV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

**TEST SETUP AND PROCEDURE**

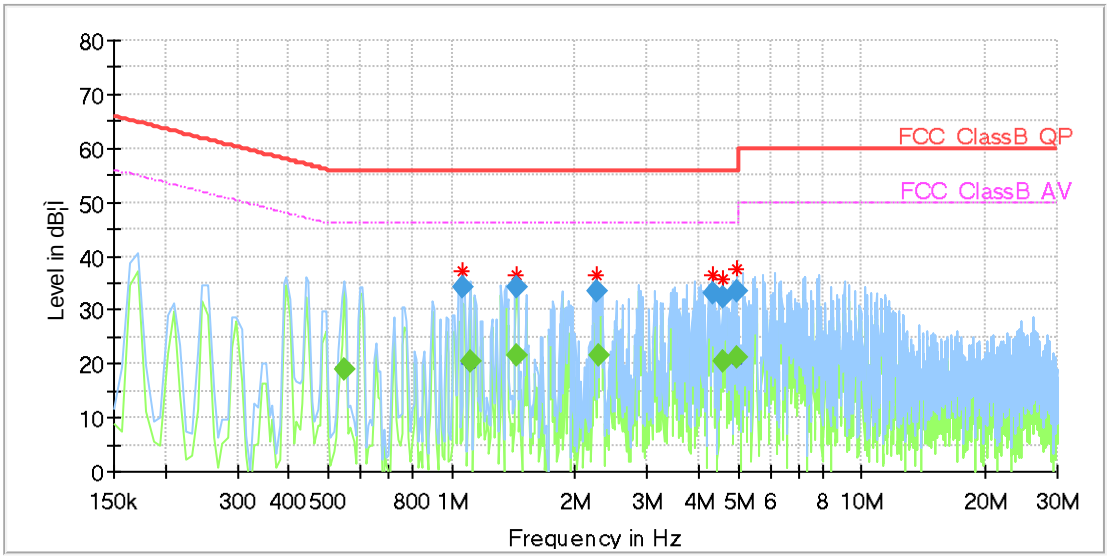



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

**TEST RESULTS (WORST CASE CONFIGURATION)**

**For L Line:**

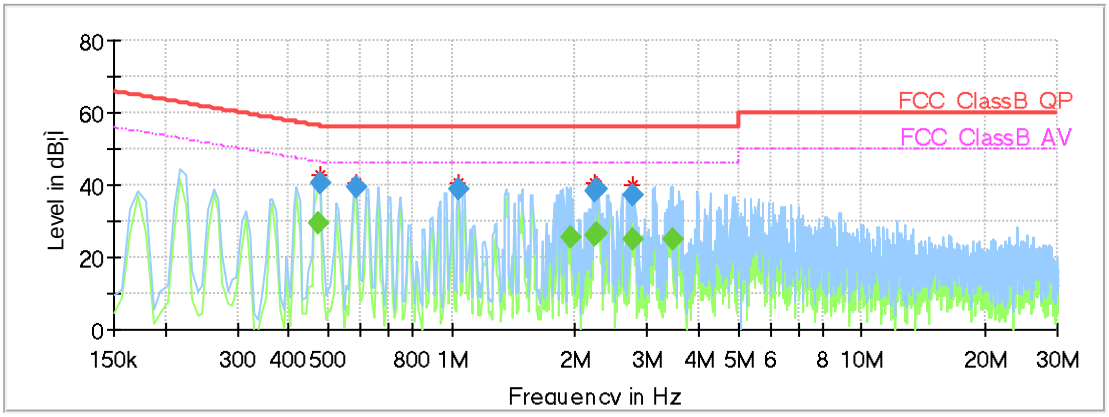



## Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 0.545513 | --- | 19.12 | 46.00 | 26.88 | 1000.0 | 9.000 | L1 | OFF | 9.7 |
| 1.067888 | 34.39 | --- | 56.00 | 21.61 | 1000.0 | 9.000 | L1 | OFF | 9.6 |
| 1.105200 | --- | 20.33 | 46.00 | 25.67 | 1000.0 | 9.000 | L1 | OFF | 9.6 |
| 1.433550 | 34.14 | --- | 56.00 | 21.86 | 1000.0 | 9.000 | L1 | OFF | 9.6 |
| 1.441013 | --- | 21.53 | 46.00 | 24.47 | 1000.0 | 9.000 | L1 | OFF | 9.6 |
| 2.261888 | 33.46 | --- | 56.00 | 22.54 | 1000.0 | 9.000 | L1 | OFF | 9.7 |
| 2.291738 | --- | 21.55 | 46.00 | 24.45 | 1000.0 | 9.000 | L1 | OFF | 9.7 |
| 4.314075 | 32.95 | --- | 56.00 | 23.05 | 1000.0 | 9.000 | L1 | OFF | 9.6 |
| 4.575263 | 32.32 | --- | 56.00 | 23.68 | 1000.0 | 9.000 | L1 | OFF | 9.6 |
| 4.575263 | --- | 20.63 | 46.00 | 25.37 | 1000.0 | 9.000 | L1 | OFF | 9.6 |
| 4.948388 | --- | 21.23 | 46.00 | 24.77 | 1000.0 | 9.000 | L1 | OFF | 9.4 |
| 4.948388 | 33.54 | --- | 56.00 | 22.46 | 1000.0 | 9.000 | L1 | OFF | 9.4 |

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
5. Pre-testing all test modes and channels, and find the LCH of 11G which is the worst case, so only the worst case is included in this test report.

**For N Line:**




## Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 0.470888 | --- | 29.64 | 46.50 | 16.86 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 0.478350 | 40.65 | --- | 56.37 | 15.71 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 0.582825 | 39.62 | --- | 56.00 | 16.38 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 1.038038 | 38.66 | --- | 56.00 | 17.34 | 1000.0 | 9.000 | N | OFF | 9.7 |
| 1.941000 | --- | 25.54 | 46.00 | 20.46 | 1000.0 | 9.000 | N | OFF | 9.7 |
| 2.232038 | --- | 26.35 | 46.00 | 19.66 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 2.232038 | 38.46 | --- | 56.00 | 17.54 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 2.254425 | --- | 26.48 | 46.00 | 19.52 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 2.254425 | 38.71 | --- | 56.00 | 17.29 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 2.754413 | --- | 25.16 | 46.00 | 20.84 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 2.754413 | 37.22 | --- | 56.00 | 18.78 | 1000.0 | 9.000 | N | OFF | 9.6 |
| 3.463350 | --- | 24.77 | 46.00 | 21.23 | 1000.0 | 9.000 | N | OFF | 9.6 |

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
5. Pre-testing all test modes and channels, and find the LCH of 11G which is the worst case, so only the worst case is included in this test report.

# 8. ANTENNA REQUIREMENTS

**APPLICABLE REQUIREMENTS**

Please refer to FCC §15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**ANTENNA CONNECTOR**

EUT has a EUT with one Meandered printed inverted-F antenna.

**ANTENNA GAIN**

The antenna gain of EUT is less than 6 dBi.

## END OF REPORT