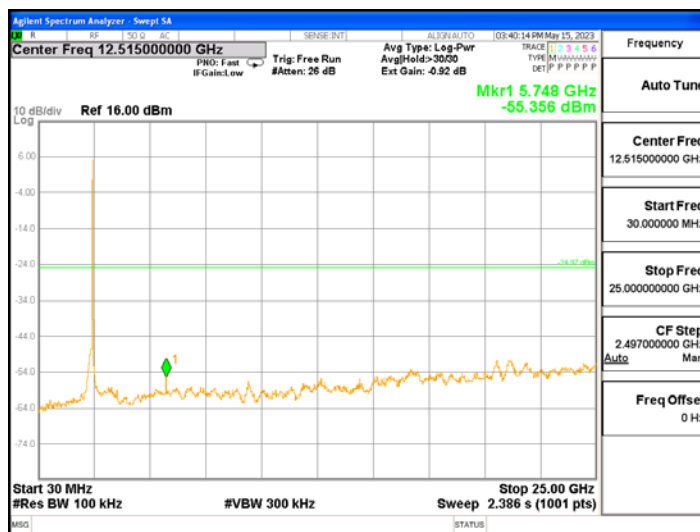
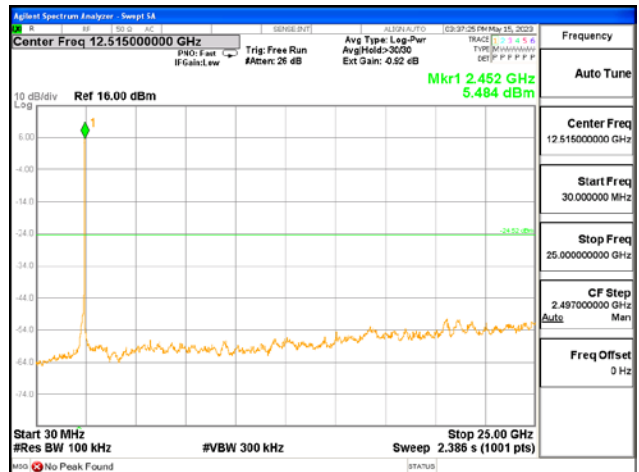
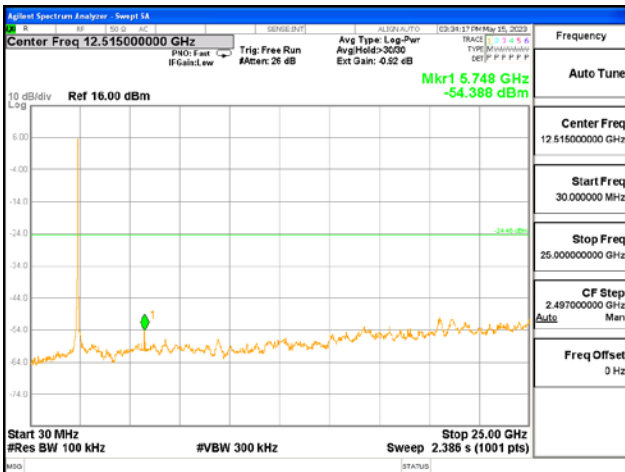
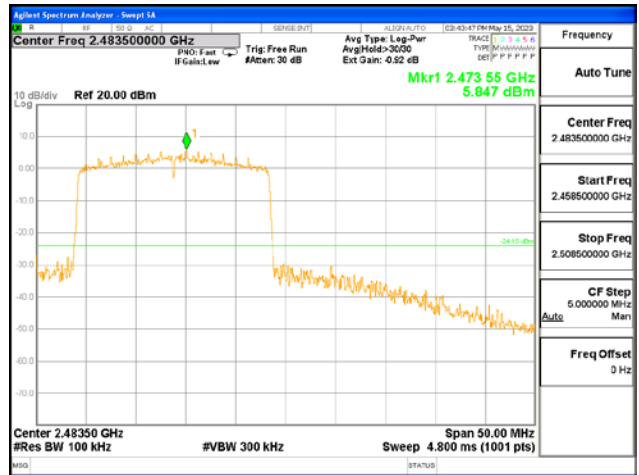
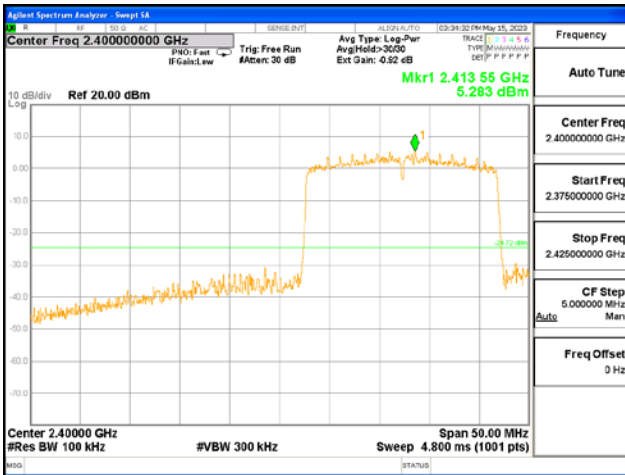




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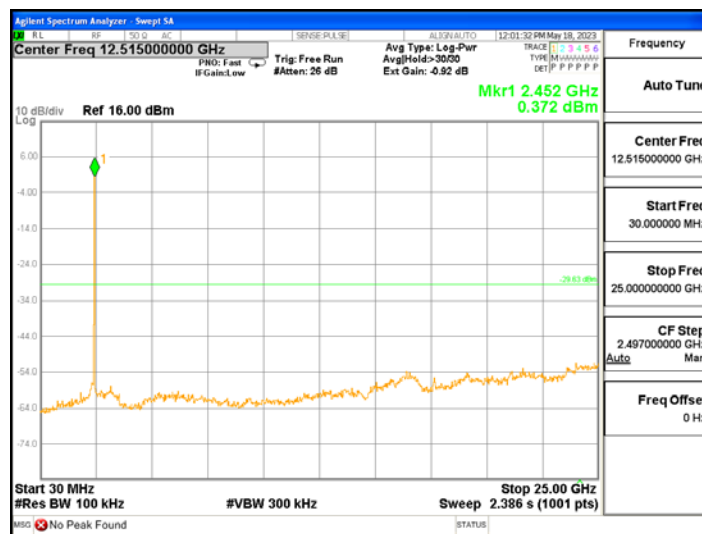
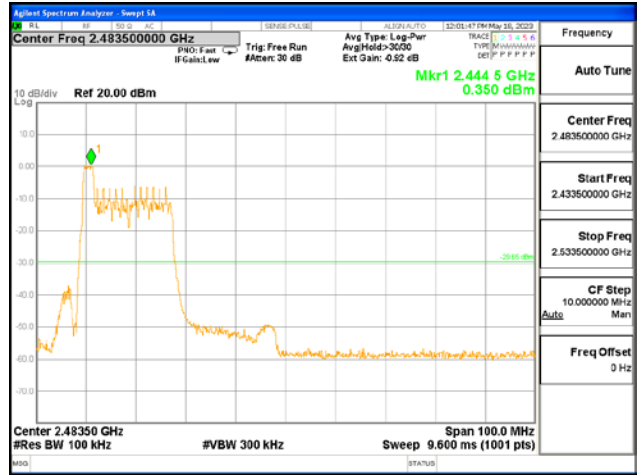
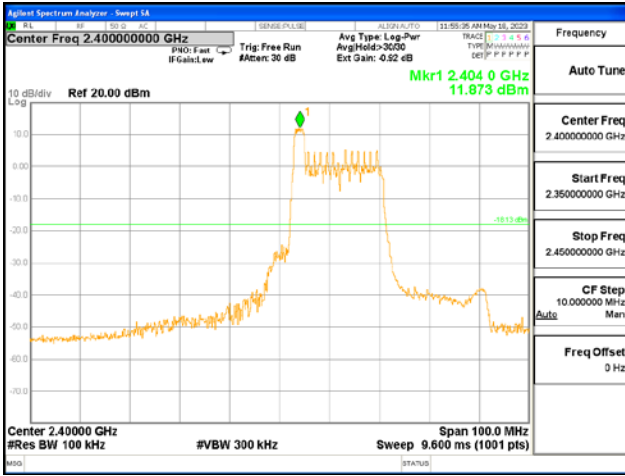


ANT R, 802.11ax_HE20_242T



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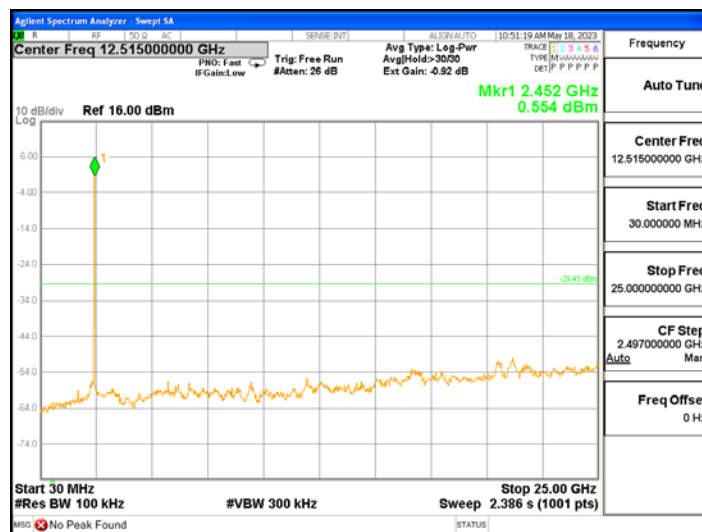
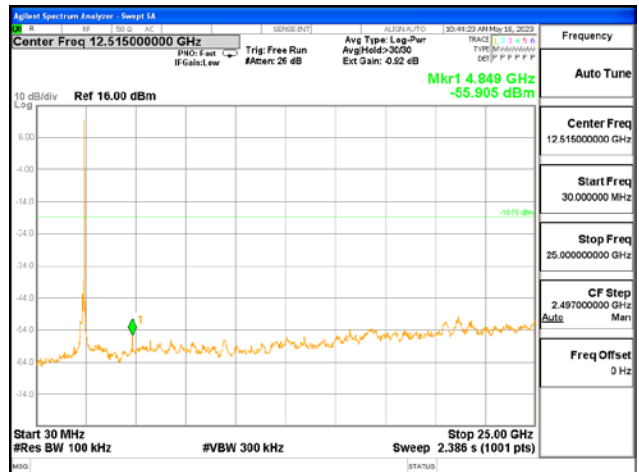
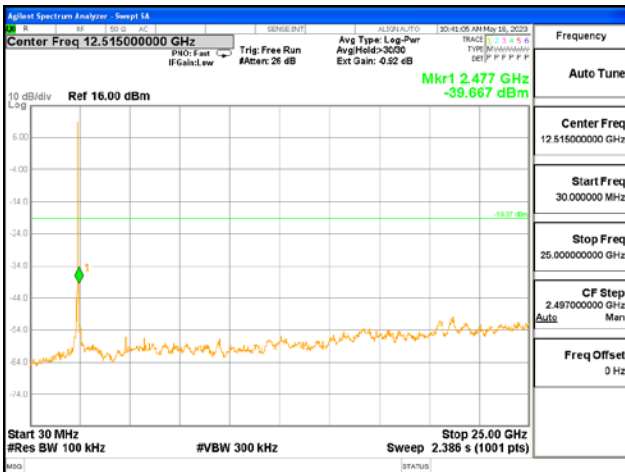
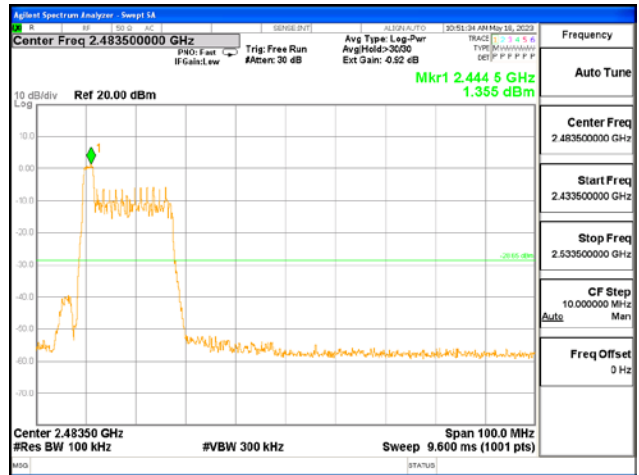
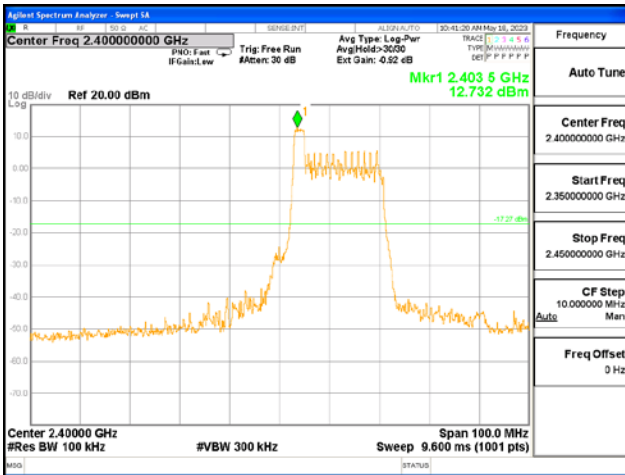


ANT L, 802.11ax_HE40_26T_Low



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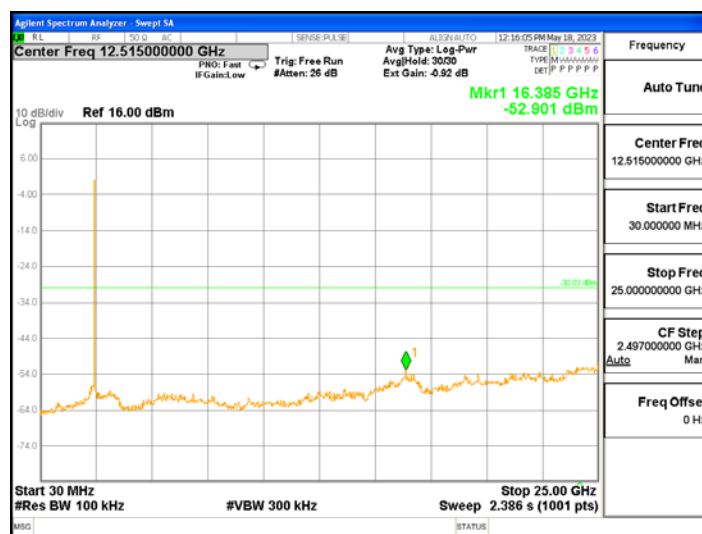
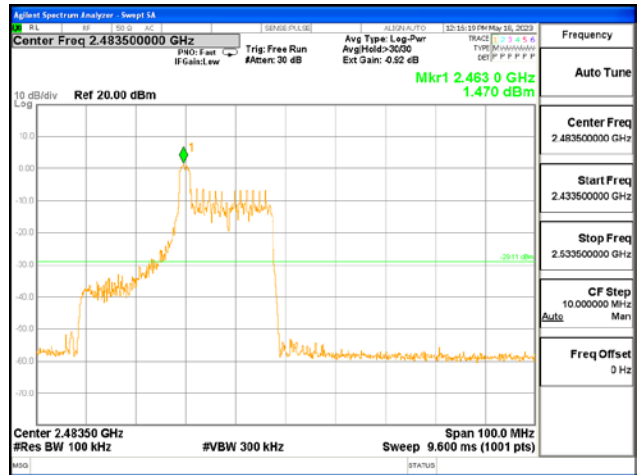
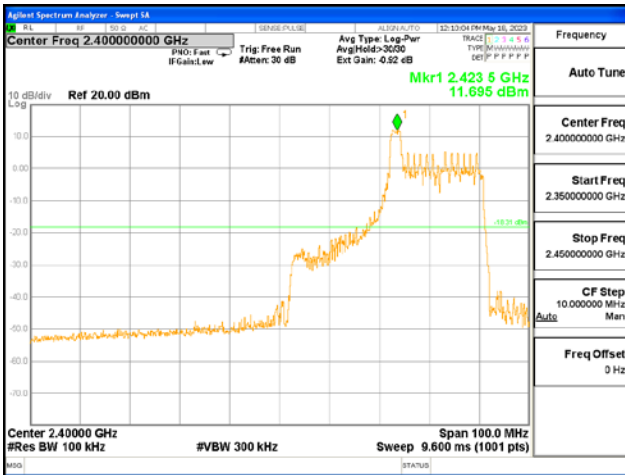


ANT R, 802.11ax_HE40_26T_Low



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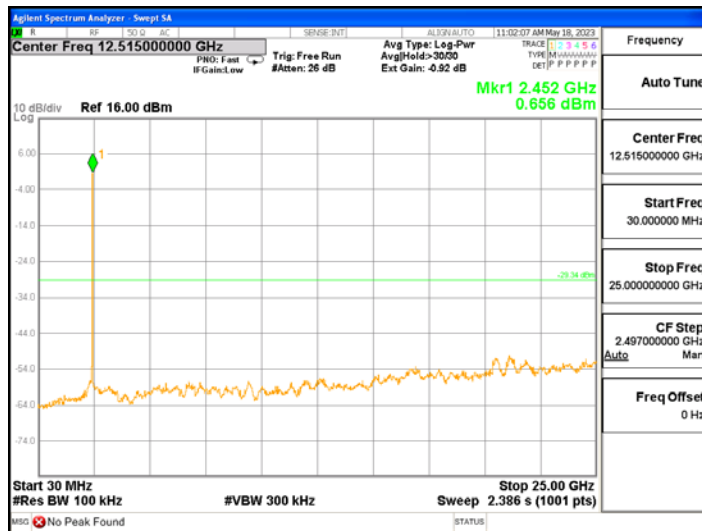
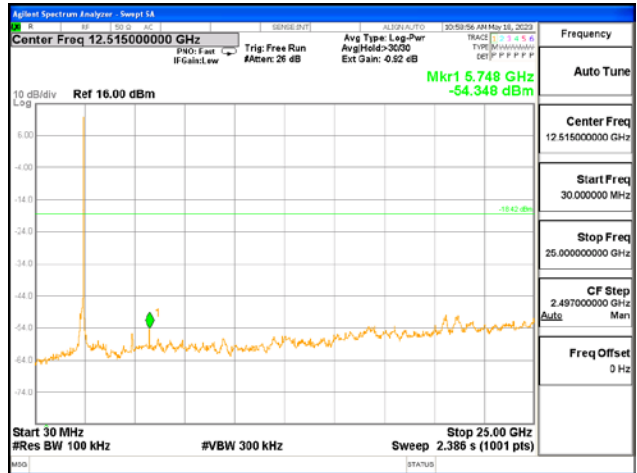
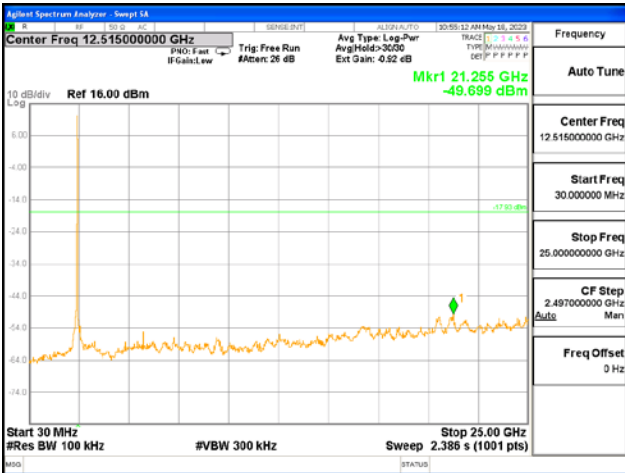
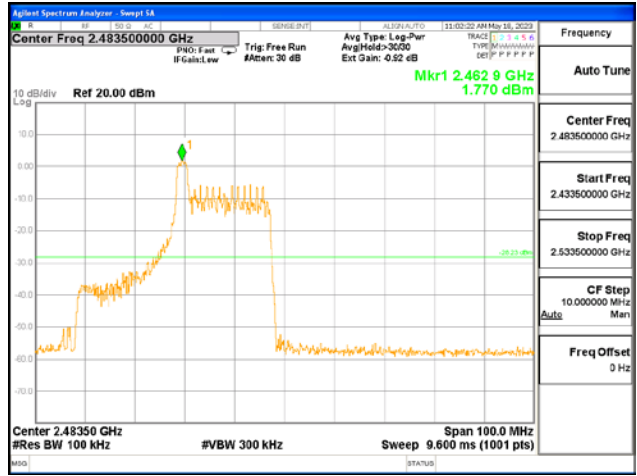
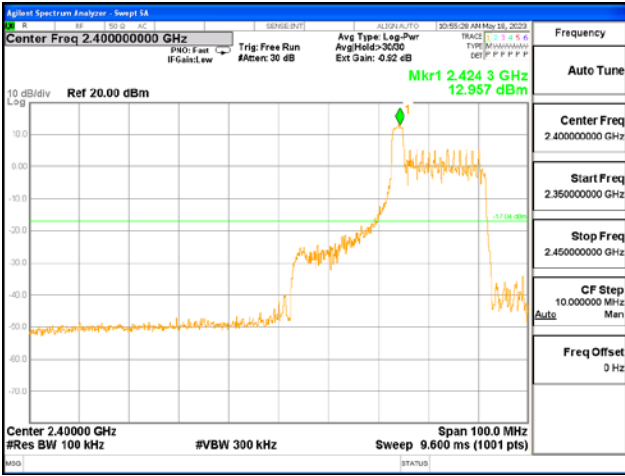


ANT L, 802.11ax_HE40_26T_Mid



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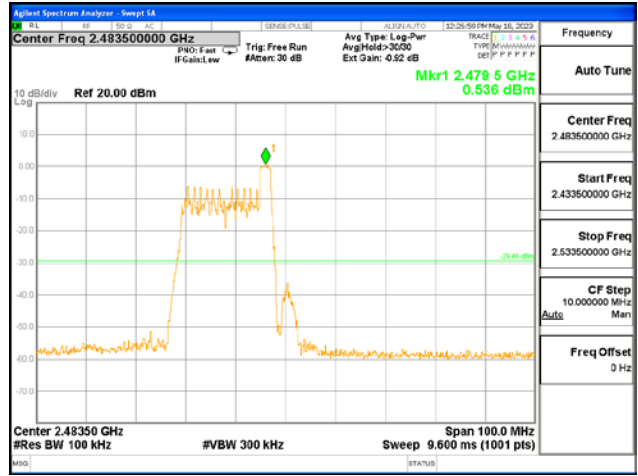
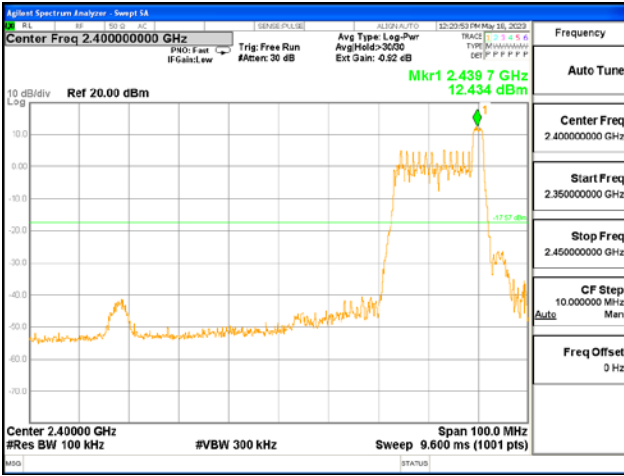


ANT R, 802.11ax_HE40_26T_Mid



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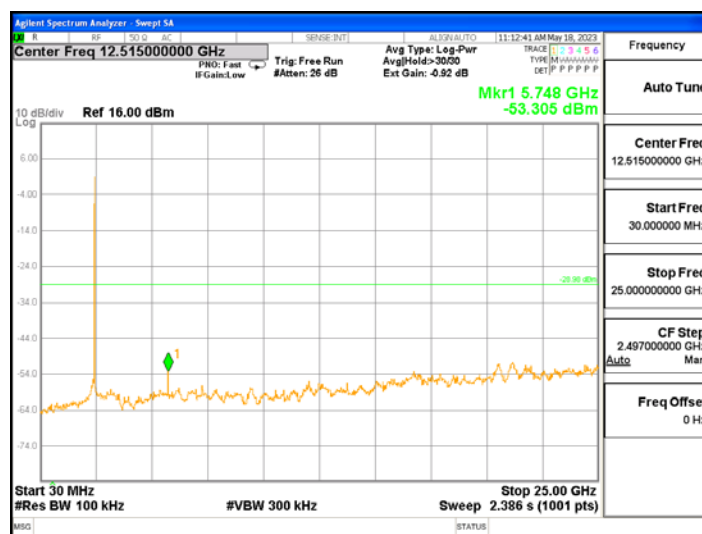
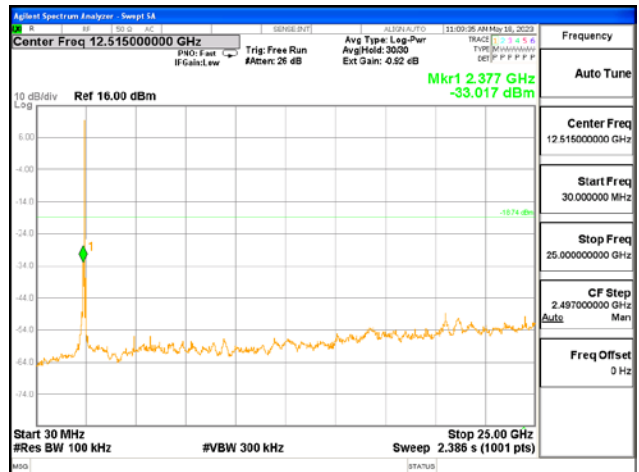
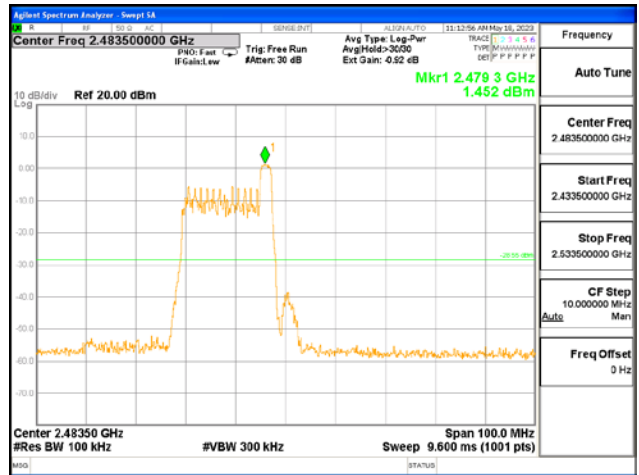
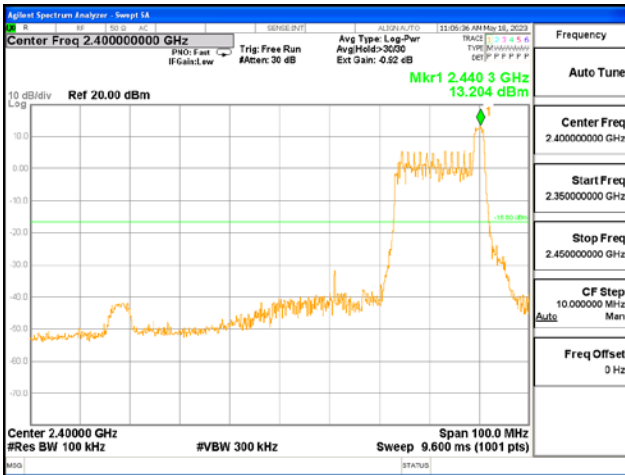


ANT L, 802.11ax_HE40_26T_High

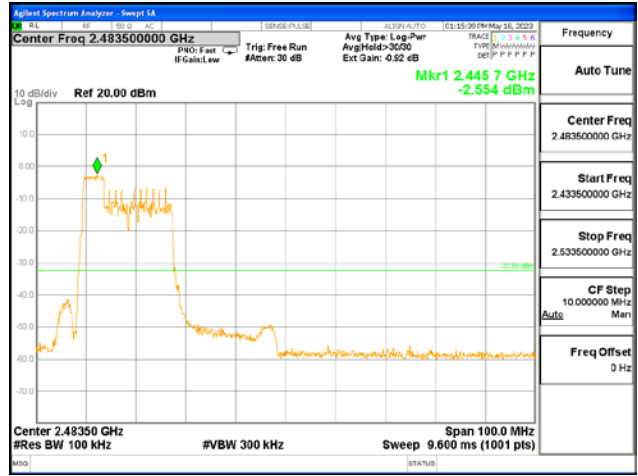
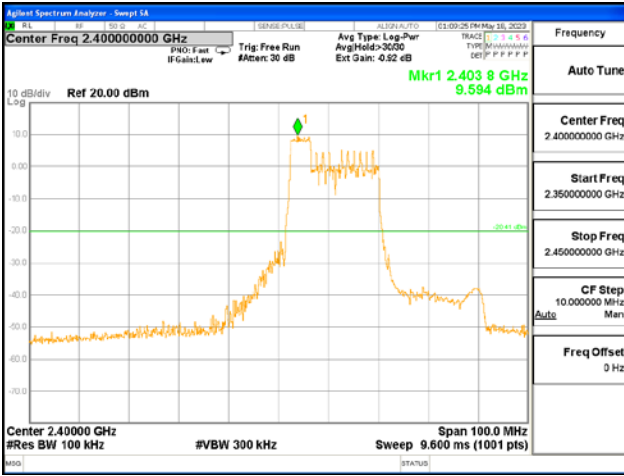


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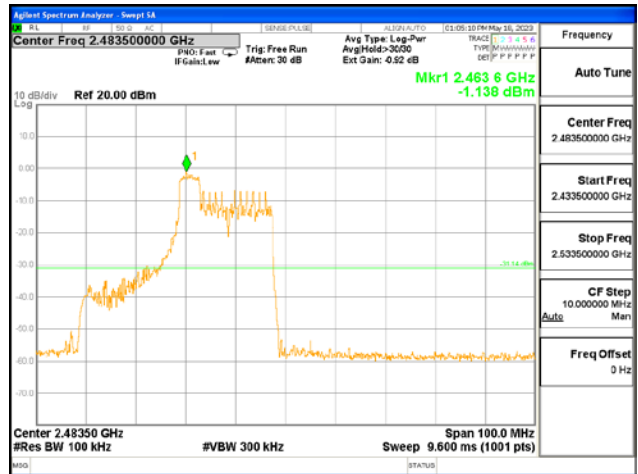
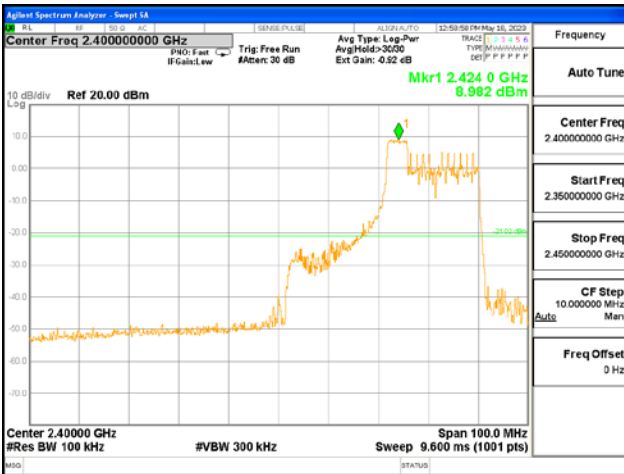
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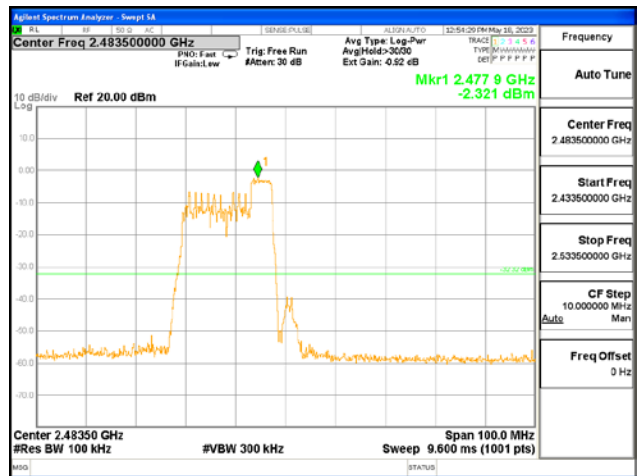
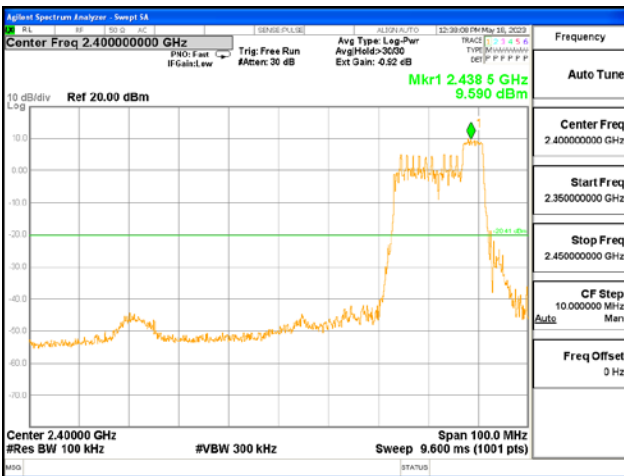
ANT R, 802.11ax_HE40_26T_High



ANT L, 802.11ax_HE40_52T_Low



ANT L, 802.11ax_HE40_52T_Mid

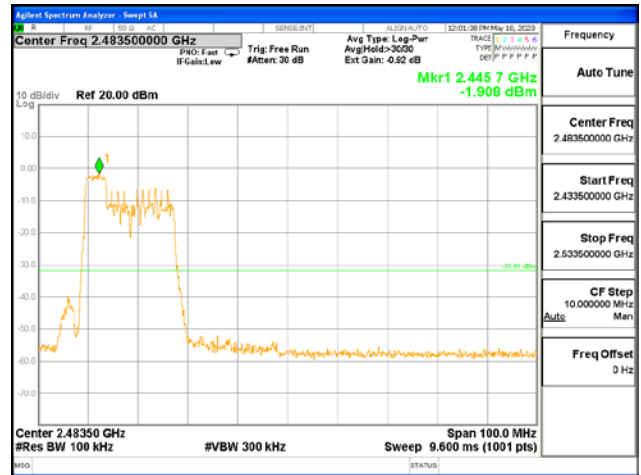
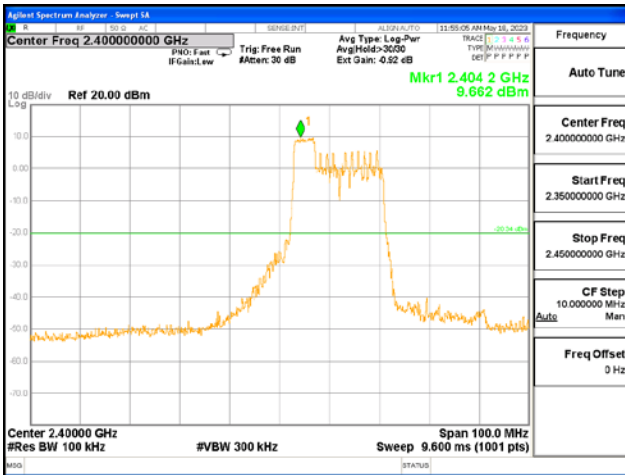


ANT L, 802.11ax_HE40_52T_High

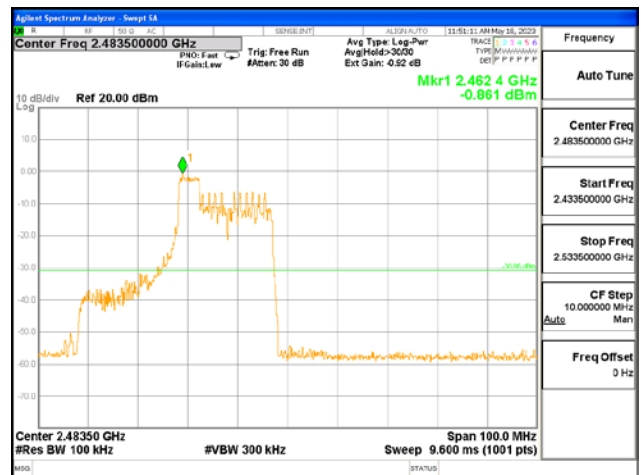
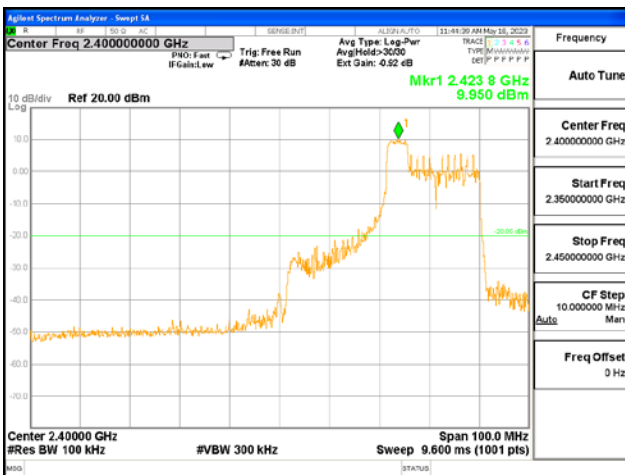


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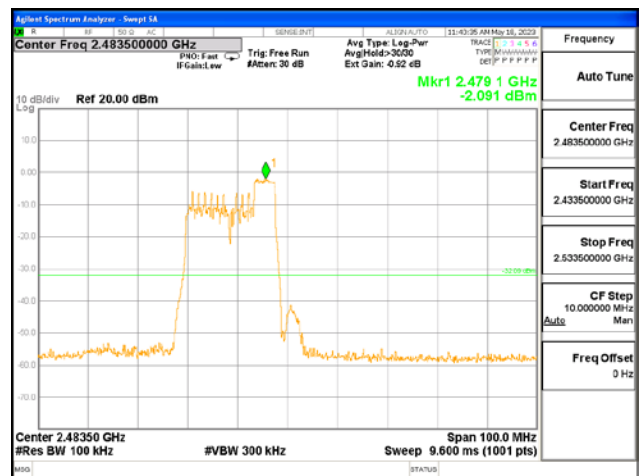
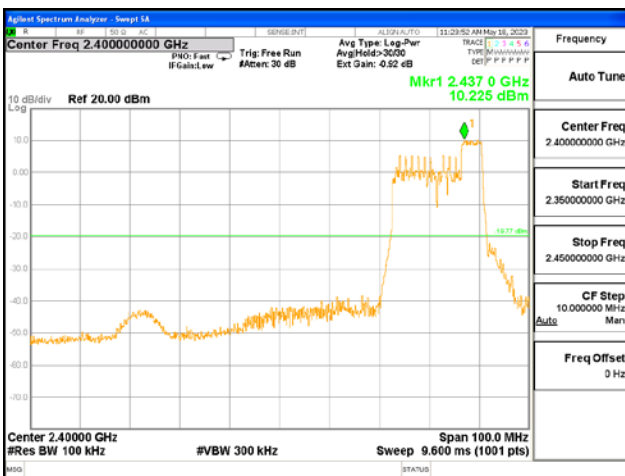
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ANT R, 802.11ax_HE40_52T_Mid

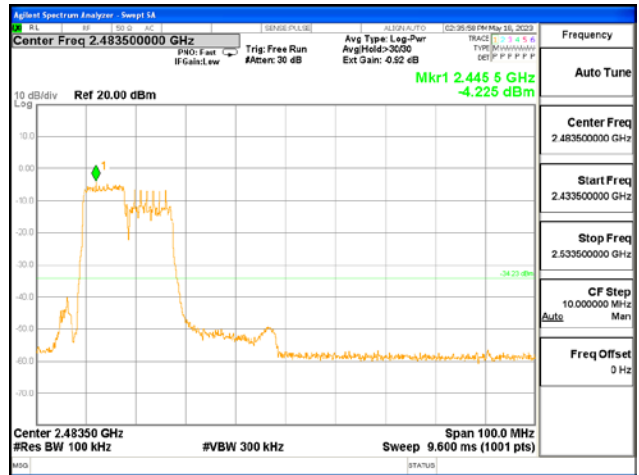
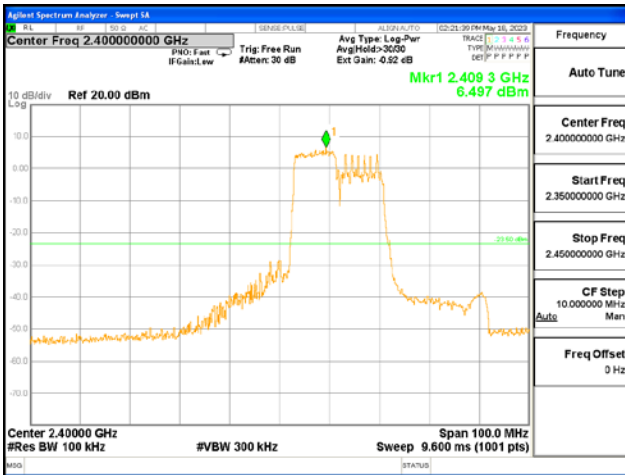


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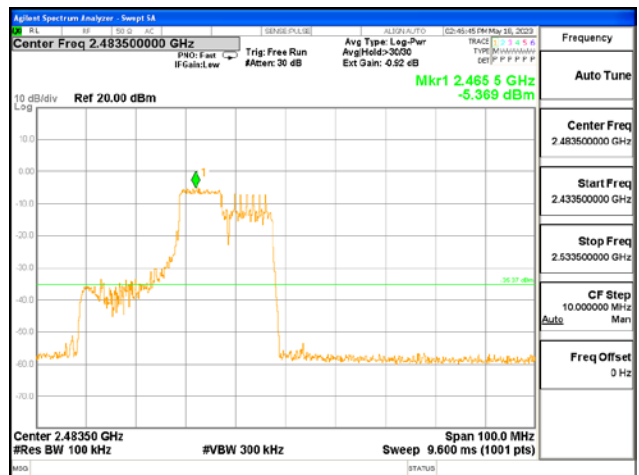
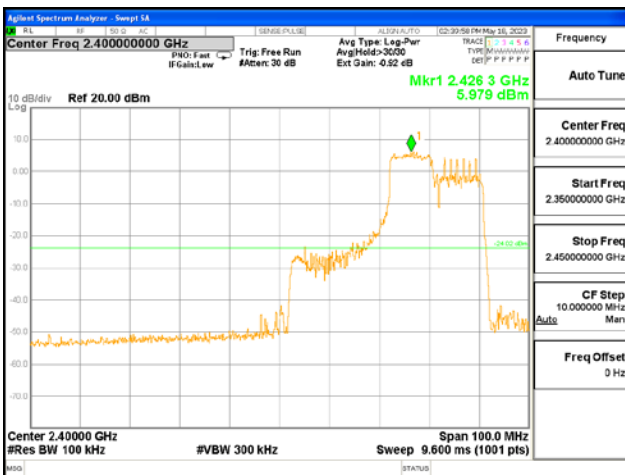


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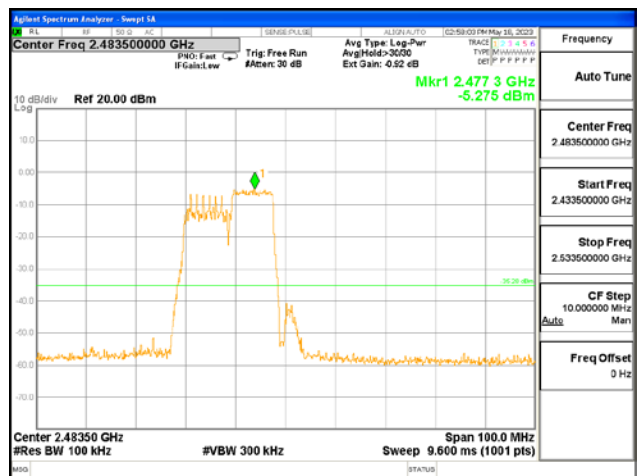
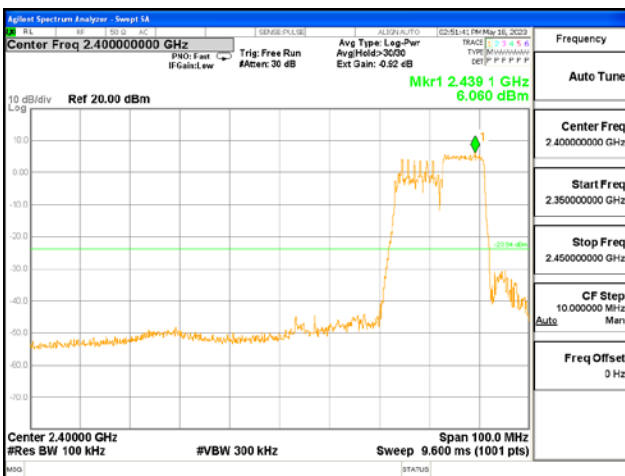
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ANT L, 802.11ax_HE40_106T_Low



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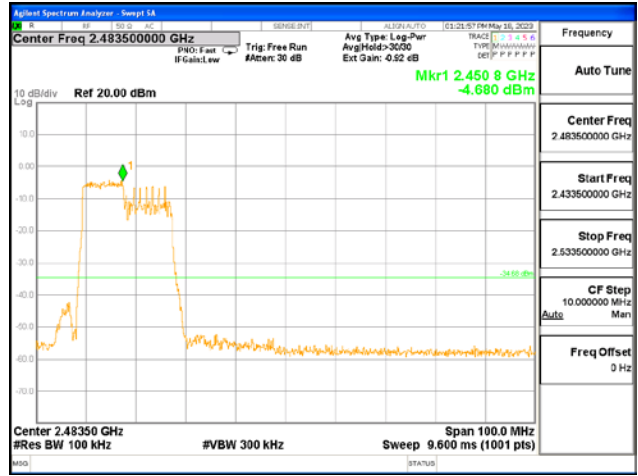
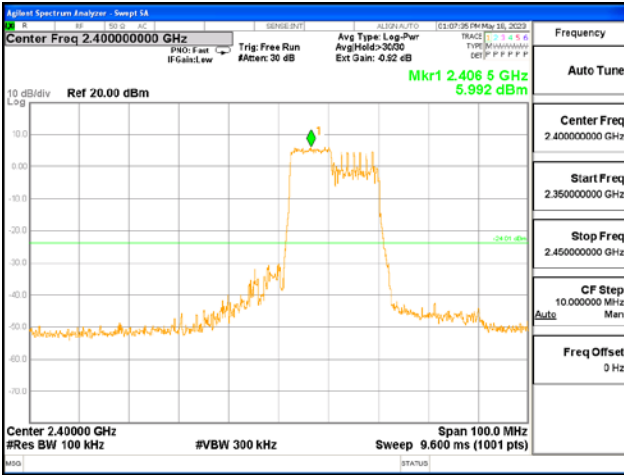


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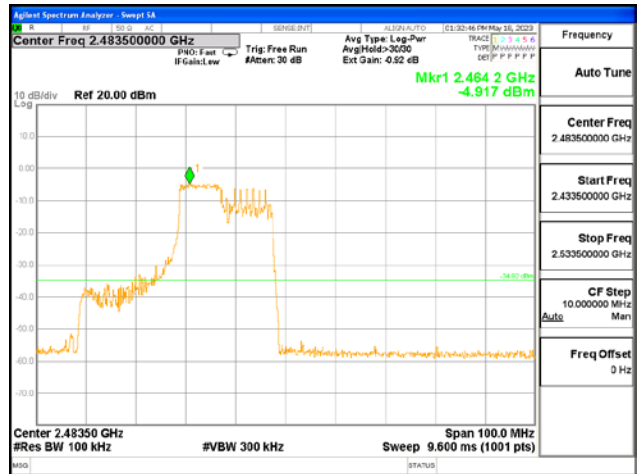
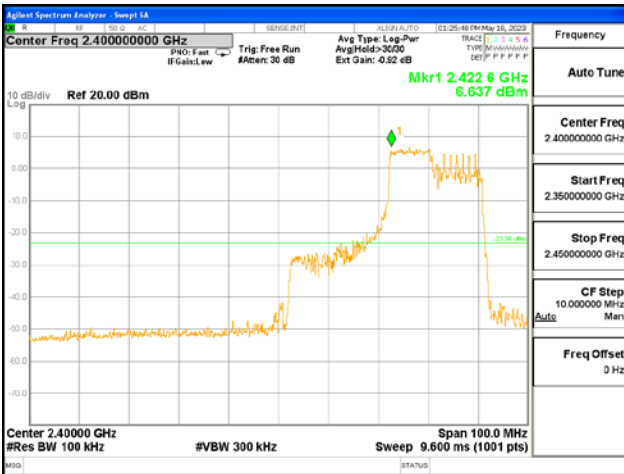


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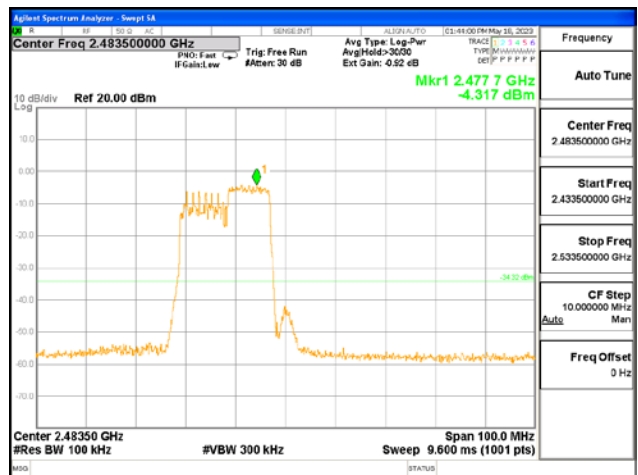
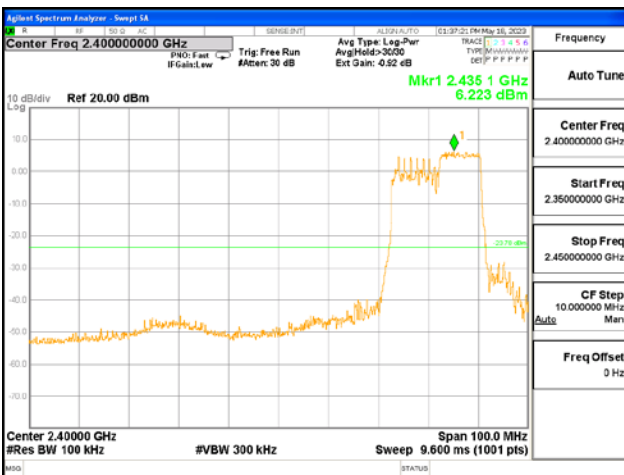
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ANT R, 802.11ax_HE40_106T_Low



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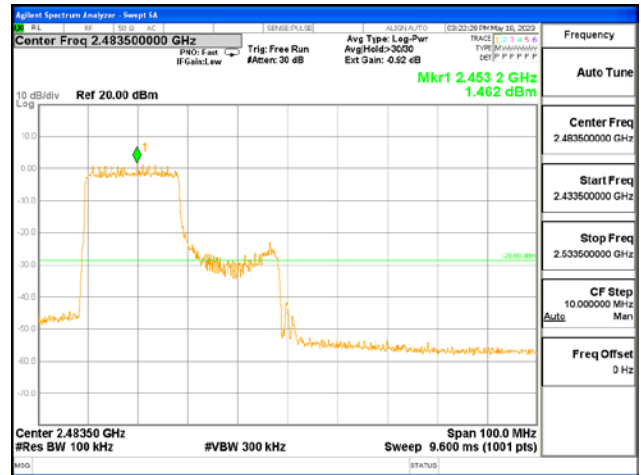
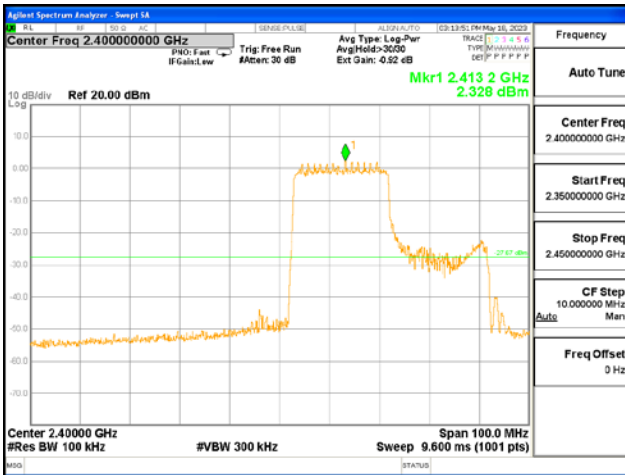


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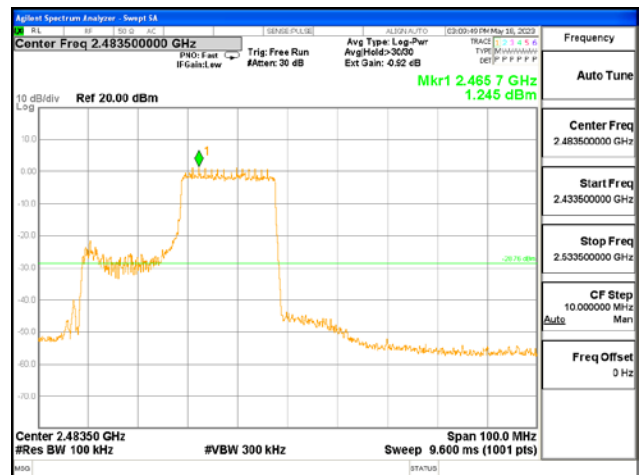
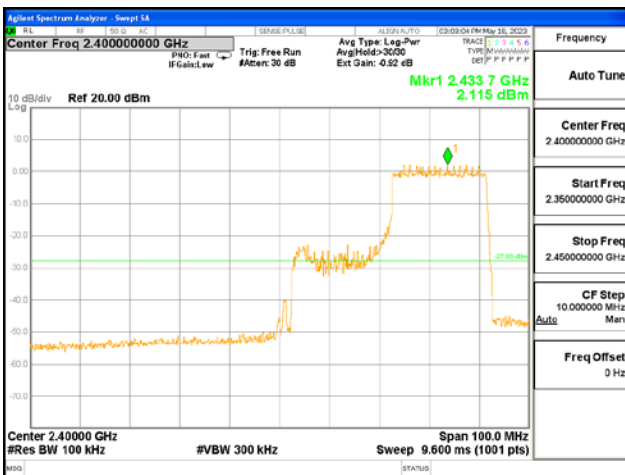


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ANT L, 802.11ax_HE40_242T_Low

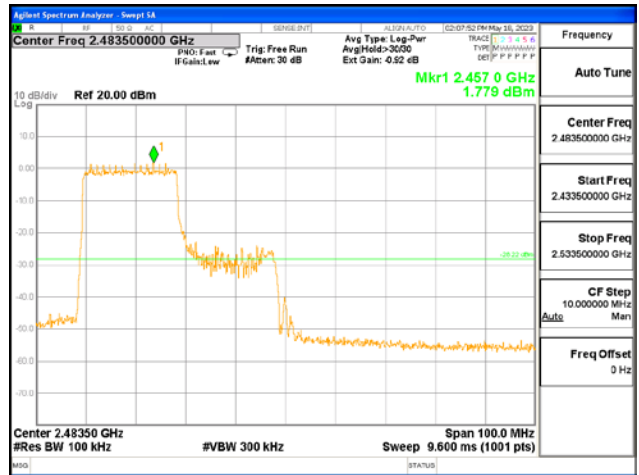
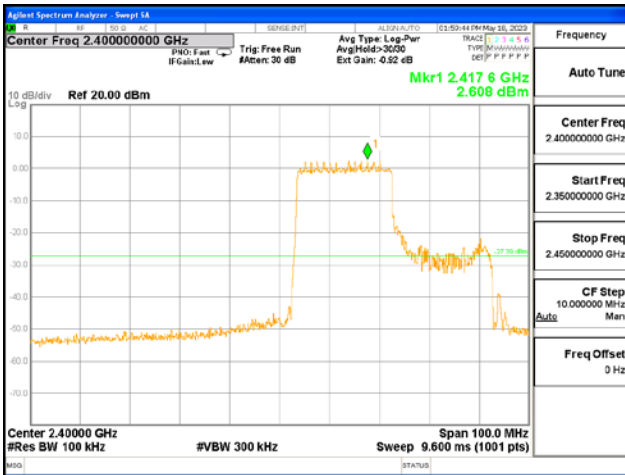


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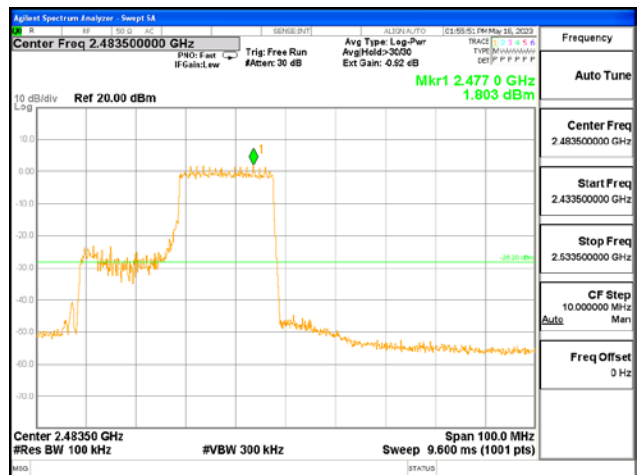
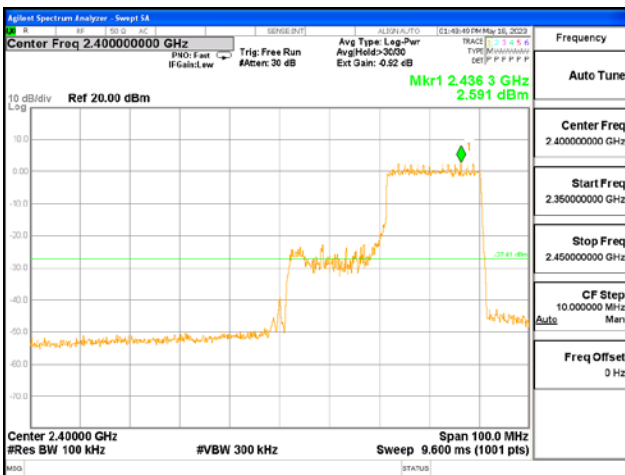


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ANT R, 802.11ax_HE40_242T_Low

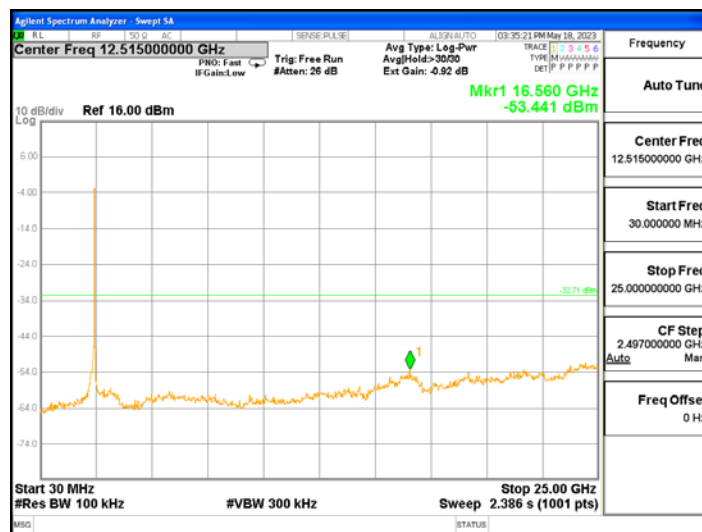
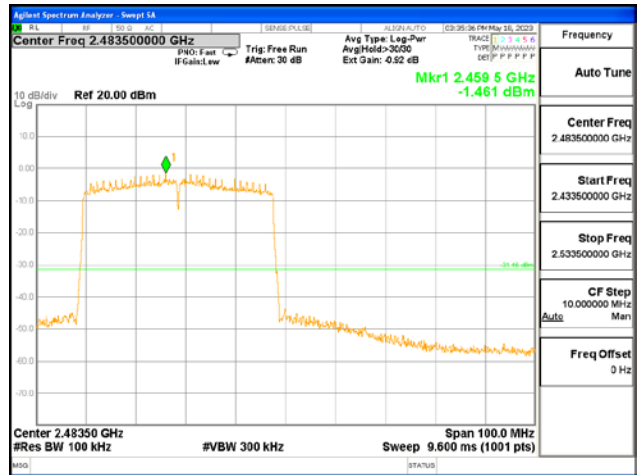
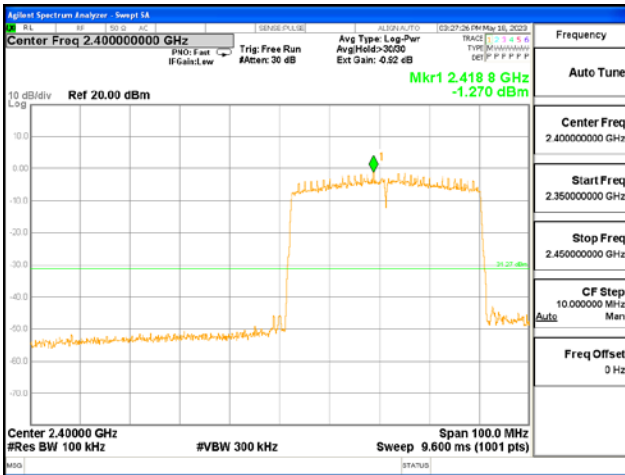


ANT R, 802.11ax_HE40_242T_High



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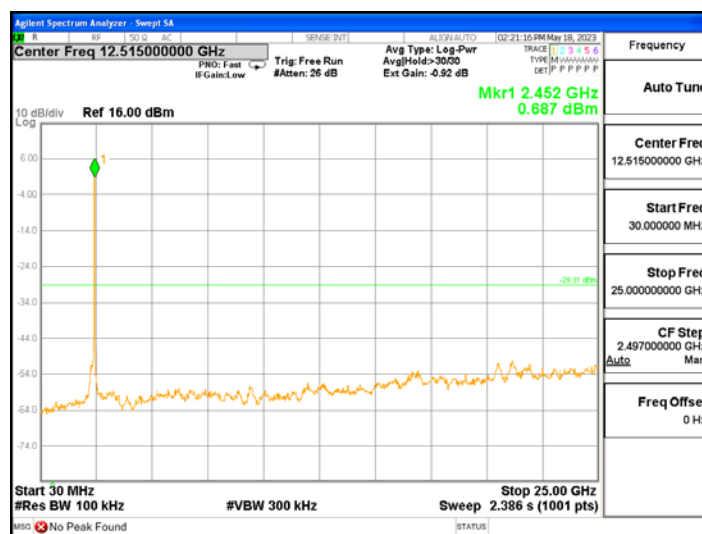
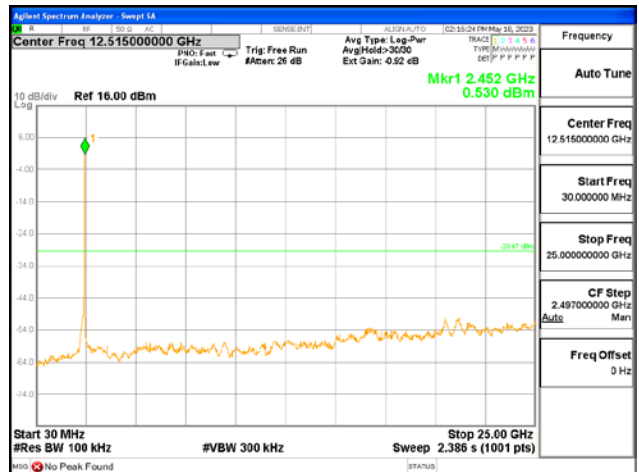
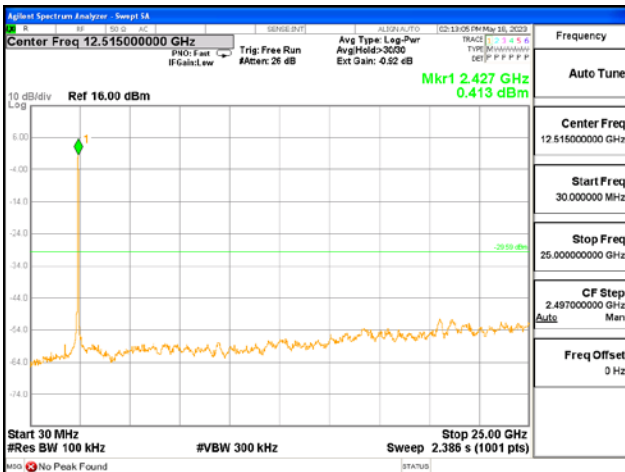
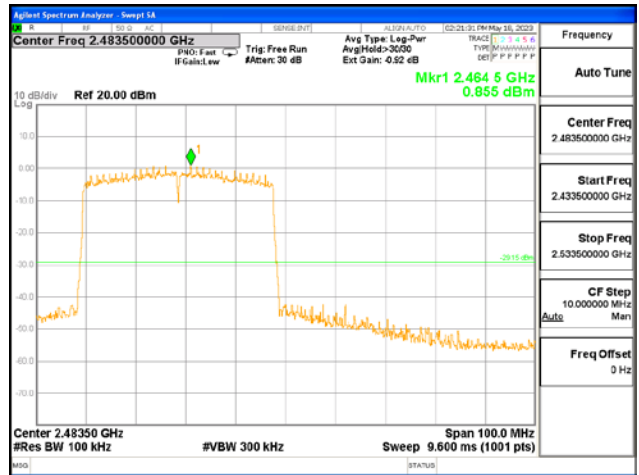
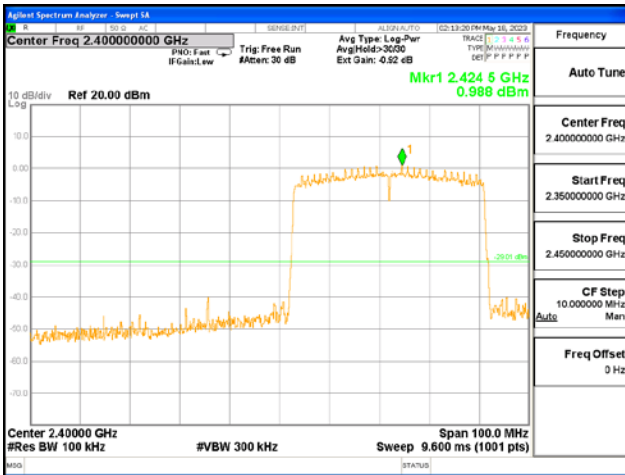


ANT L, 802.11ax_HE40_484T



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ANT R, 802.11ax_HE40_484T

4.5 Radiated Emission

Test Location

- 10 m SAC (test distance : 10 m, 3 m)
 3 m SAC (test distance : 3 m)

Test Procedures

KDB 558074 - Section 8.5, 8.6
ANSI C63.10-2013 - Section 11.11, 11.12

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

- a) RBW = 100 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHz
b) VBW \geq RBW
c) Detector = CISPR Quasi-peak
d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = Peak
d) Sweep time = auto
e) Trace mode = max hold

- Average (duty cycle $\geq 98\%$)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = RMS
d) Sweep time = auto
e) Averaging type = power (i.e., RMS)
f) Trace mode = average (at least 100 traces)



- Average (duty cycle < 98%, duty cycle variations are less than ±2%)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

a) RBW = 1 MHz

b) VBW ≥ 3 x RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle.

If power averaging (RMS) mode, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

| Test mode | Duty Cycle Factor |
|--------------------|-------------------|
| 802.11b | 0.00 dB |
| 802.11g | 0.12 dB |
| 802.11n_HT20 | 0.14 dB |
| 802.11n_HT40 | 0.27 dB |
| 802.11ax_HE20_26T | 0.20 dB |
| 802.11ax_HE20_52T | 0.21 dB |
| 802.11ax_HE20_106T | 0.22 dB |
| 802.11ax_HE20_242T | 0.27 dB |
| 802.11ax_HE40_26T | 0.19 dB |
| 802.11ax_HE40_52T | 0.11 dB |
| 802.11ax_HE40_106T | 0.24 dB |
| 802.11ax_HE40_242T | 0.26 dB |
| 802.11ax_HE40_484T | 0.26 dB |



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Limit :

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | MHz | MHz | GHz |
|--------------------------|-------------------|---------------------|---------------|-------------|-------------------------|
| 0.09-0.11 | 8.37626-8.38675 | 73-74.6 | 399.9-410 | 2690-2900 | 10.6-12.7 |
| ¹ 0.495-0.505 | 8.41425-8.41475 | 74.8-75.2 | 608-614 | 3260-3267 | 13.25-13.4 |
| 2.1735-2.1905 | 12.29-12.293 | 108-121.94 | 960-1240 | 3332-3339 | 14.47-14.5 |
| 4.125-4.128 | 12.51975-12.52025 | 123-138 | 1300-1427 | 3345.8-3358 | 15.35-16.2 |
| 4.17725-4.17775 | 12.57675-12.57725 | 149.9-150.05 | 1435-1626.5 | 3600-4400 | 17.7-21.4 |
| 4.20725-4.20775 | 13.36-13.41 | 156.52475-156.52525 | 1645.5-1646.5 | 4500-5150 | 22.01-23.12 |
| 6.215-6.218 | 16.42-16.423 | 156.7-156.9 | 1660-1710 | 5350-5460 | 23.6-24 |
| 6.26775-6.26825 | 16.69475-16.69525 | 162.0125-167.17 | 1718.8-1722.2 | 7250-7750 | 31.2-31.8 |
| 6.31175-6.31225 | 16.80425-16.80475 | 167.72-173.2 | 2200-2300 | 8025-8500 | 36.43-36.5 |
| 8.291-8.294 | 25.5-25.67 | 240-285 | 2310-2390 | 9000-9200 | ² Above 38.6 |
| 8.362-8.366 | 37.5-38.25 | 322-335.4 | 2483.5-2500 | 9300-9500 | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



FCC Part 15 § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

| Frequency(MHz) | Field Strength uV/m@3m | Field Strength dBuV/m@3m | Deasurement Distance (meters) |
|----------------|---------------------------|-----------------------------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | 30 |
| 1.705-30 | 30 | - | 30 |
| 30-88 | 100** | 40 | 3 |
| 88-216 | 150** | 43.5 | 3 |
| 216-960 | 200** | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)



Test Mode

We have done all test mode.

The worst-case antenna configuration and Test mode are determined to be as follows.

802.11b mode : ANT L, ANT R

802.11g mode : ANT L, ANT R

802.11n mode : ANT L + ANT R (MIMO)

802.11ax mode : ANT L + ANT R (MIMO)

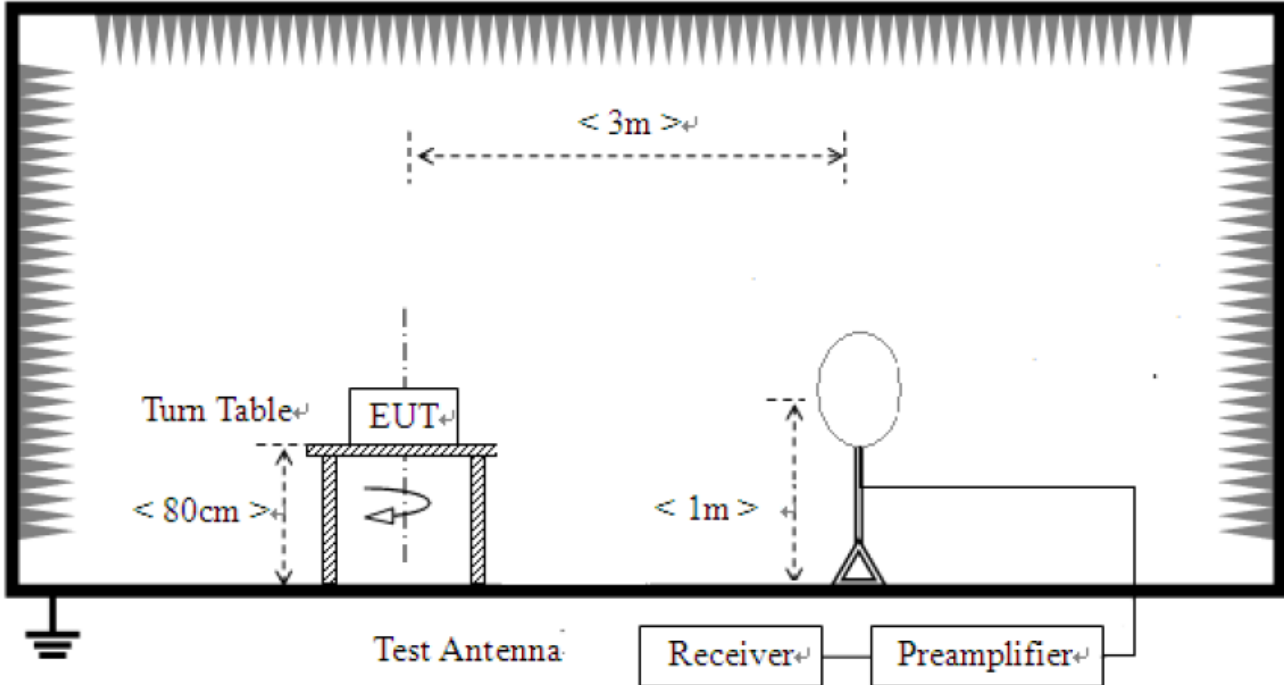
So the results are only attached worst cases.

802.11ax Test RU Index for Tones

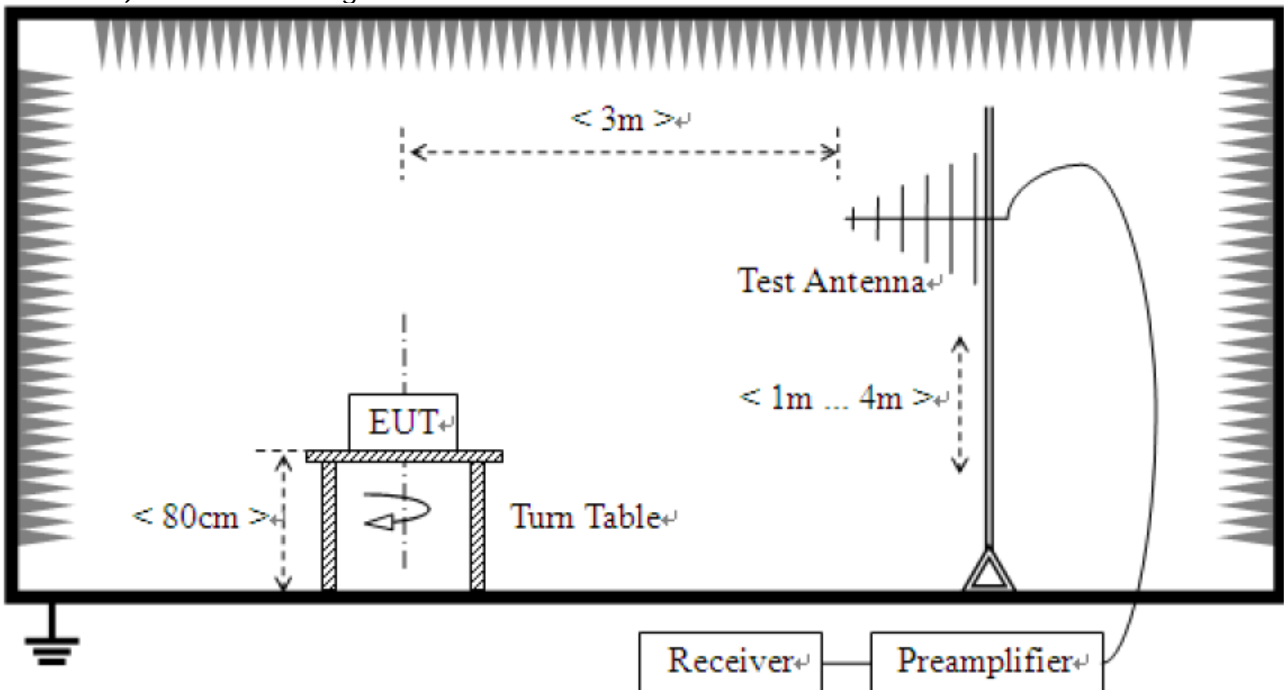
| Mode | Bandwidth (MHz) | Frequency (MHz) | Tones | Test RU offset | |
|----------|-----------------|-----------------|-------|----------------|-------------------|
| | | | | Band Edge | Spurious Emission |
| 802.11ax | 20 | 2 412 | 26T | 0 | 4 |
| | | | 52T | 0 | - |
| | | | 106T | 0 | - |
| | | | 242T | 61 | 61 |
| | | 2 442 | 26T | - | 4 |
| | | | 52T | - | - |
| | | | 106T | - | - |
| | | | 242T | - | 61 |
| | | 2 472 | 26T | 8 | 4 |
| | | | 52T | 8 | - |
| | | | 106T | 8 | - |
| | | | 242T | 61 | 61 |
| 802.11ax | 40 | 2 422 | 26T | 0 | 9 |
| | | | 52T | 0 | - |
| | | | 106T | 0 | - |
| | | | 242T | 0 | - |
| | | | 484T | 65 | 65 |
| | | 2 442 | 26T | - | 9 |
| | | | 52T | - | - |
| | | | 106T | - | - |
| | | | 242T | - | - |
| | | | 484T | - | 65 |
| | | 2 462 | 26T | 17 | 9 |
| | | | 52T | 17 | - |
| | | | 106T | 17 | - |
| | | | 242T | 17 | - |
| | | | 484T | 65 | 65 |

Test Setup:

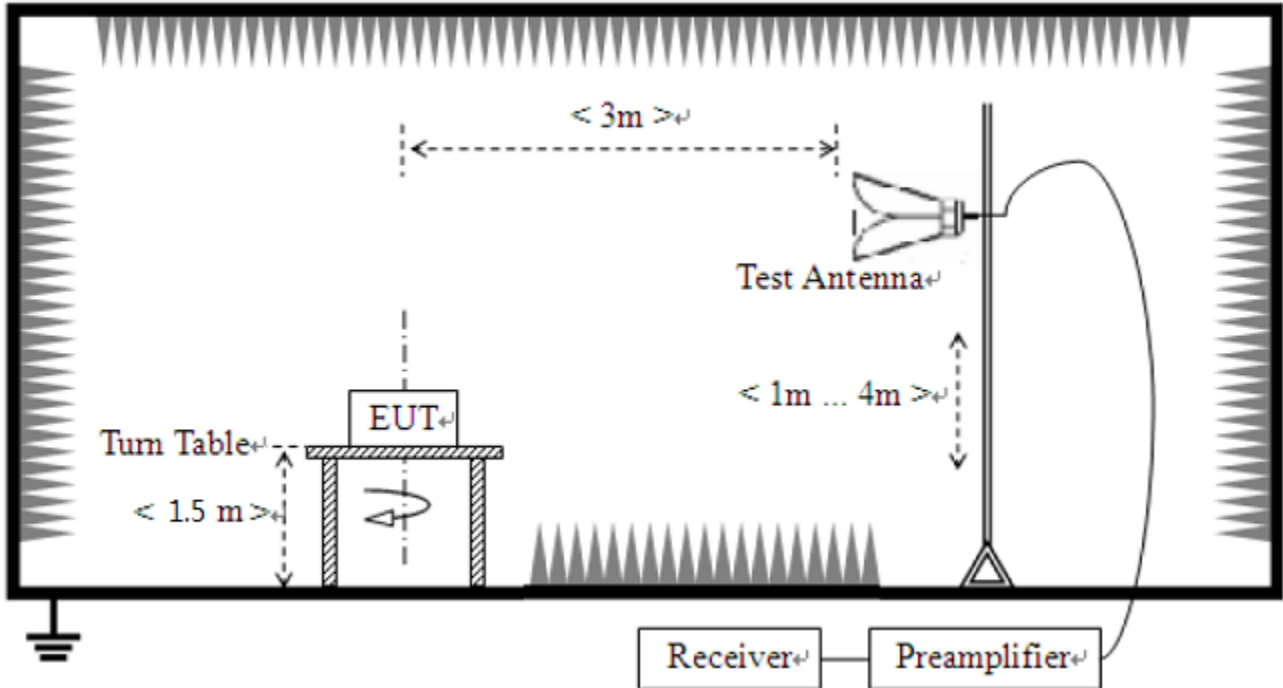
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



Test results

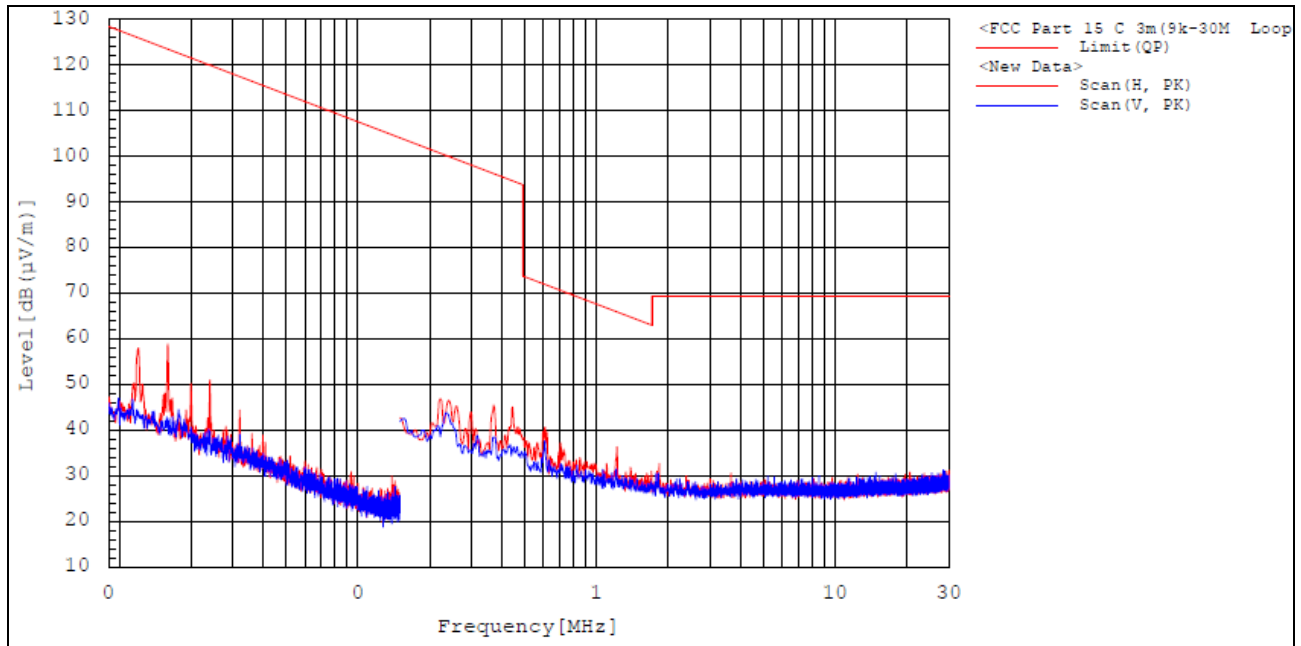
1) 9 kHz to 30 MHz

Test mode : Transmitter (Worst Case)

The requirements are:

Complies

Test Data



| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Level [dB(uV/m)] | Limit [dB(uV/m)] | Margin [dB] |
|-----------------|-----|----------------|---------------|------------------|------------------|-------------|
|-----------------|-----|----------------|---------------|------------------|------------------|-------------|

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

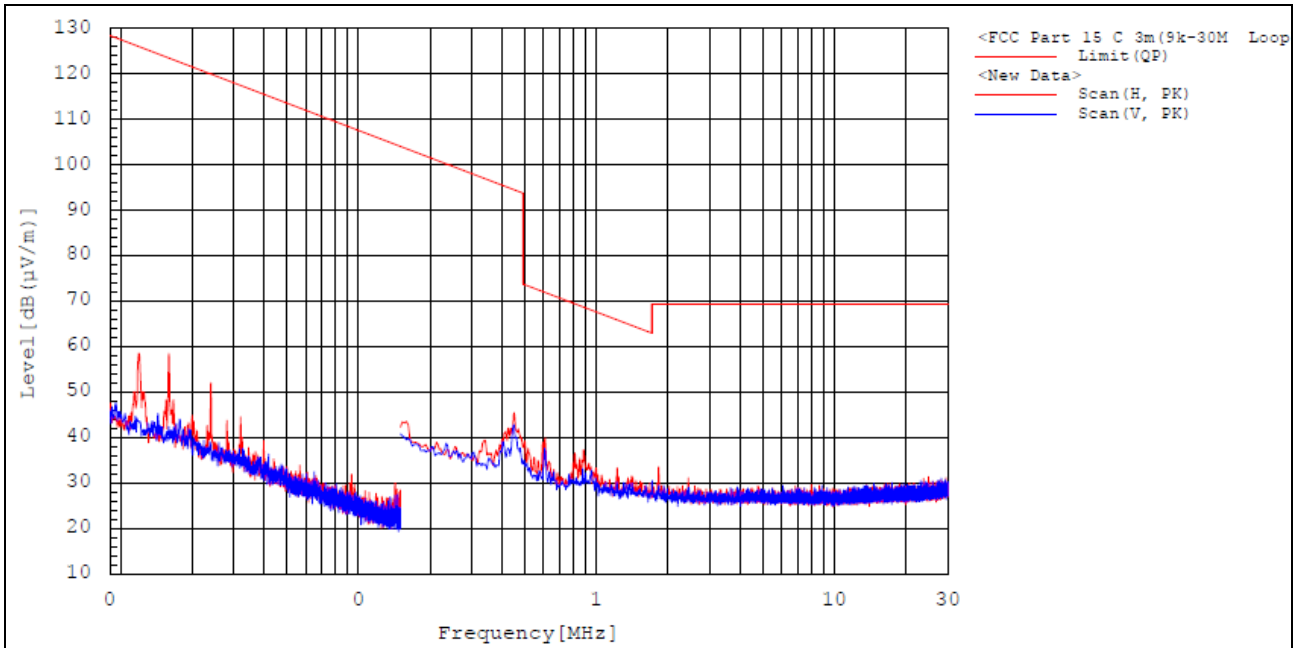
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. This data is the Peak(PK) value.

Test mode : Transmitter (simultaneous transmissions DSS + DTS)

The requirements are:

Complies

Test Data



| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Level [dB(µV/m)] | Limit [dB(µV/m)] | Margin [dB] |
|-----------------|-----|----------------|---------------|------------------|------------------|-------------|
|-----------------|-----|----------------|---------------|------------------|------------------|-------------|

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. This data is the Peak(PK) value.

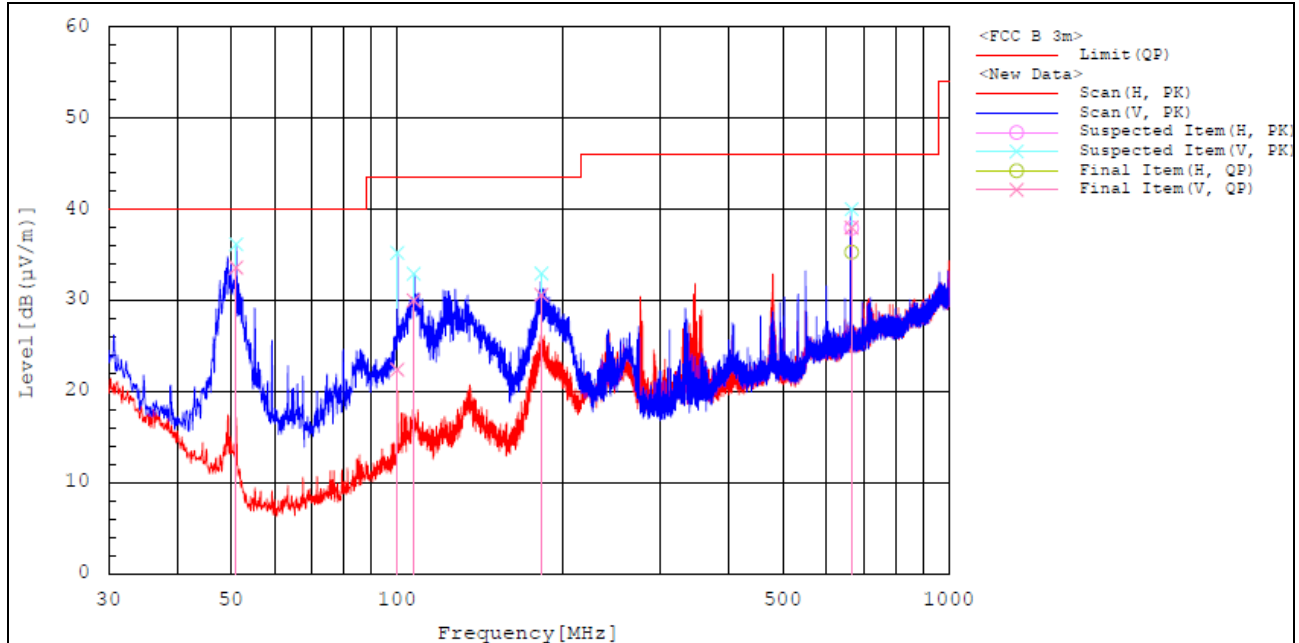
2) 30 MHz to 1 GHz

Test mode : Transmitter (Worst Case)

The requirements are:

Complies

Test Data



Final Result

| No. | Frequency [MHz] | Pol | Reading [dB (µV)] | c.f [dB (1/m)] | Result QP [dB (µV/m)] | Limit QP [dB (µV/m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----|-----------------|-----|-------------------|----------------|-----------------------|----------------------|----------------|-------------|-------------|
| 1 | 51.146 | V | 51.2 | -17.6 | 33.6 | 40.0 | 6.4 | 99.9 | 325.3 |
| 2 | 100.131 | V | 37.4 | -15.0 | 22.4 | 43.5 | 21.1 | 99.9 | 351.9 |
| 3 | 107.212 | V | 43.9 | -13.9 | 30.0 | 43.5 | 13.5 | 99.9 | 359.0 |
| 4 | 182.775 | V | 45.9 | -15.3 | 30.6 | 43.5 | 12.9 | 99.9 | 3.8 |
| 5 | 666.514 | H | 36.0 | -0.7 | 35.3 | 46.0 | 10.7 | 100.1 | 285.5 |
| 6 | 666.514 | V | 38.7 | -0.7 | 38.0 | 46.0 | 8.0 | 99.9 | 154.7 |

Remark :

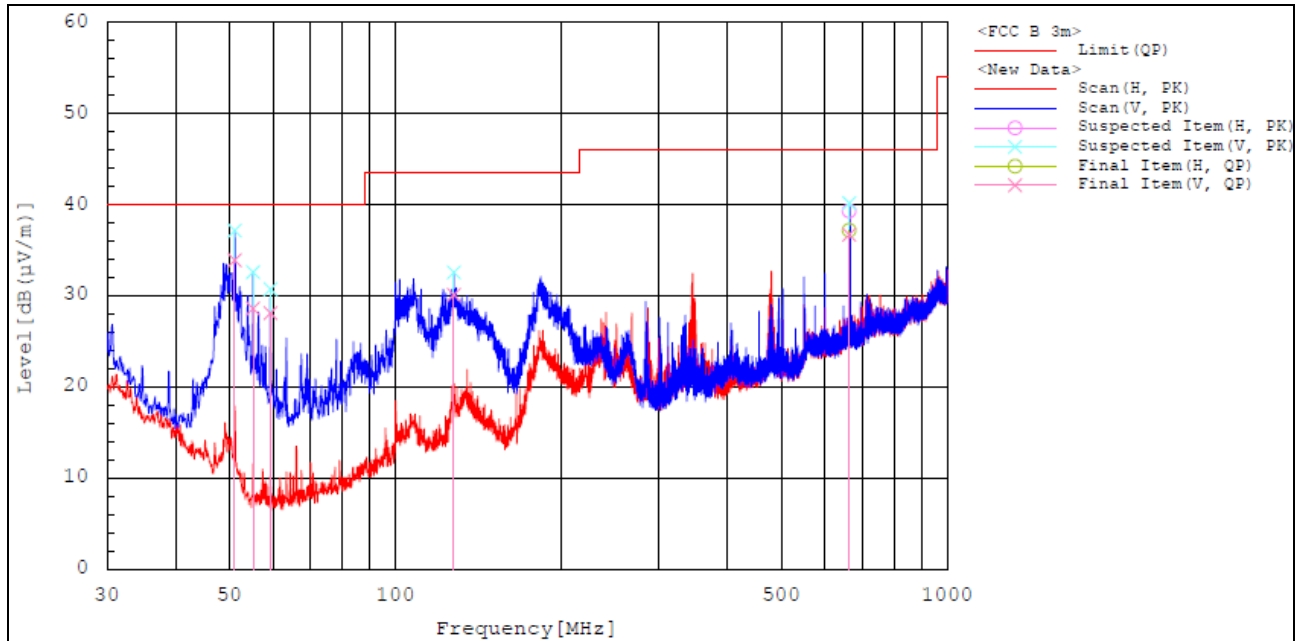
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain

Test mode : Transmitter (simultaneous transmissions DSS + DTS)

The requirements are:

Complies

Test Data



Final Result

| No. | Frequency [MHz] | Pol | Reading QP [dB (µV)] | c.f [dB (1/m)] | Result QP [dB (µV/m)] | Limit QP [dB (µV/m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----|-----------------|-----|----------------------|----------------|-----------------------|----------------------|----------------|-------------|-------------|
| 1 | 51.146 | V | 51.5 | -17.6 | 33.9 | 40.0 | 6.1 | 99.9 | 154.3 |
| 2 | 55.220 | V | 47.8 | -19.2 | 28.6 | 40.0 | 11.4 | 99.9 | 349.7 |
| 3 | 59.391 | V | 47.6 | -19.5 | 28.1 | 40.0 | 11.9 | 99.9 | 144.8 |
| 4 | 127.582 | V | 42.9 | -12.8 | 30.1 | 43.5 | 13.4 | 99.9 | 195.3 |
| 5 | 663.798 | H | 37.9 | -0.7 | 37.2 | 46.0 | 8.8 | 200.1 | 262.3 |
| 6 | 664.089 | V | 37.4 | -0.7 | 36.7 | 46.0 | 9.3 | 99.9 | 308.8 |

Remark :

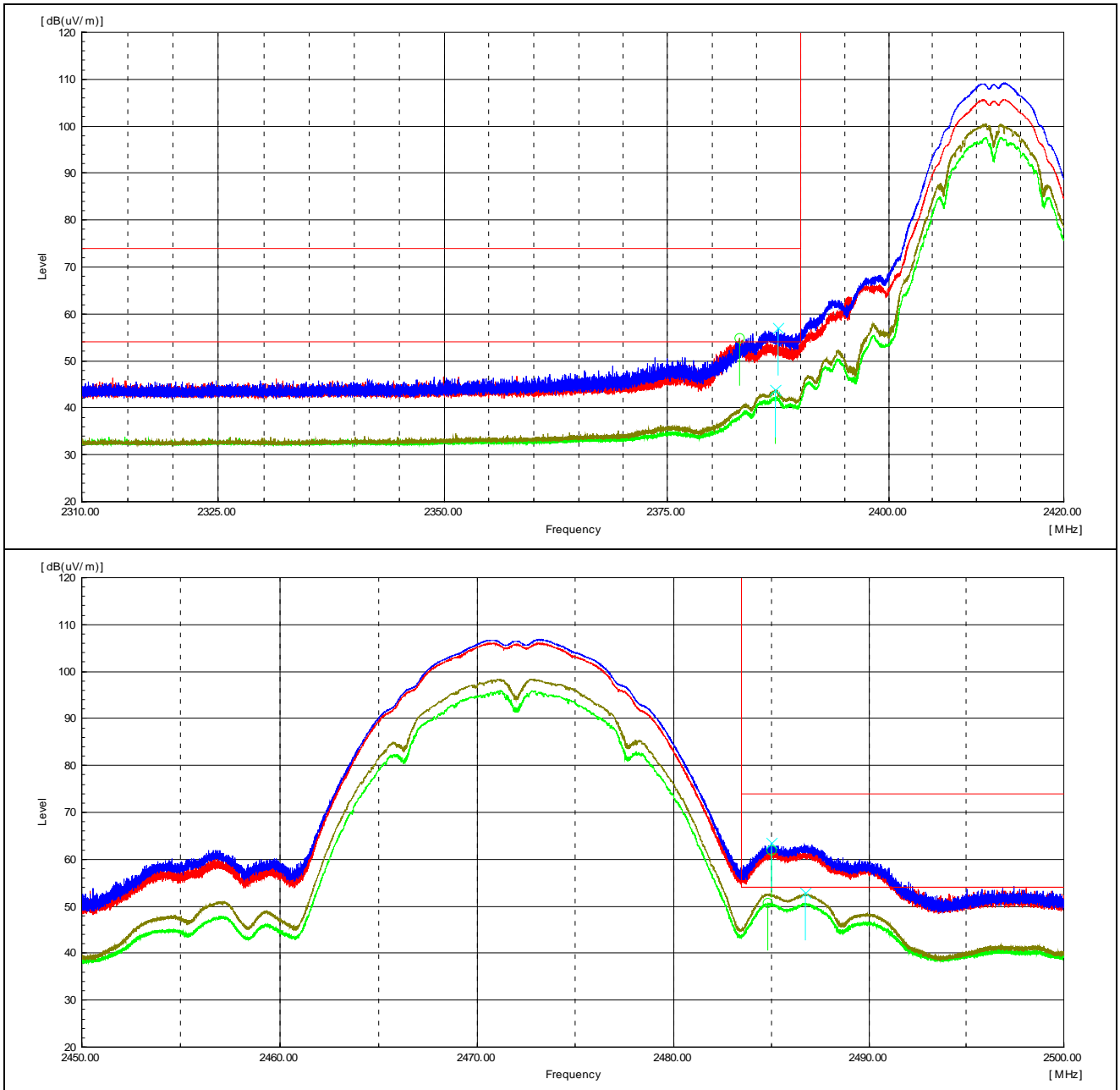
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain

3) above 1 GHz

The requirements are:

Complies

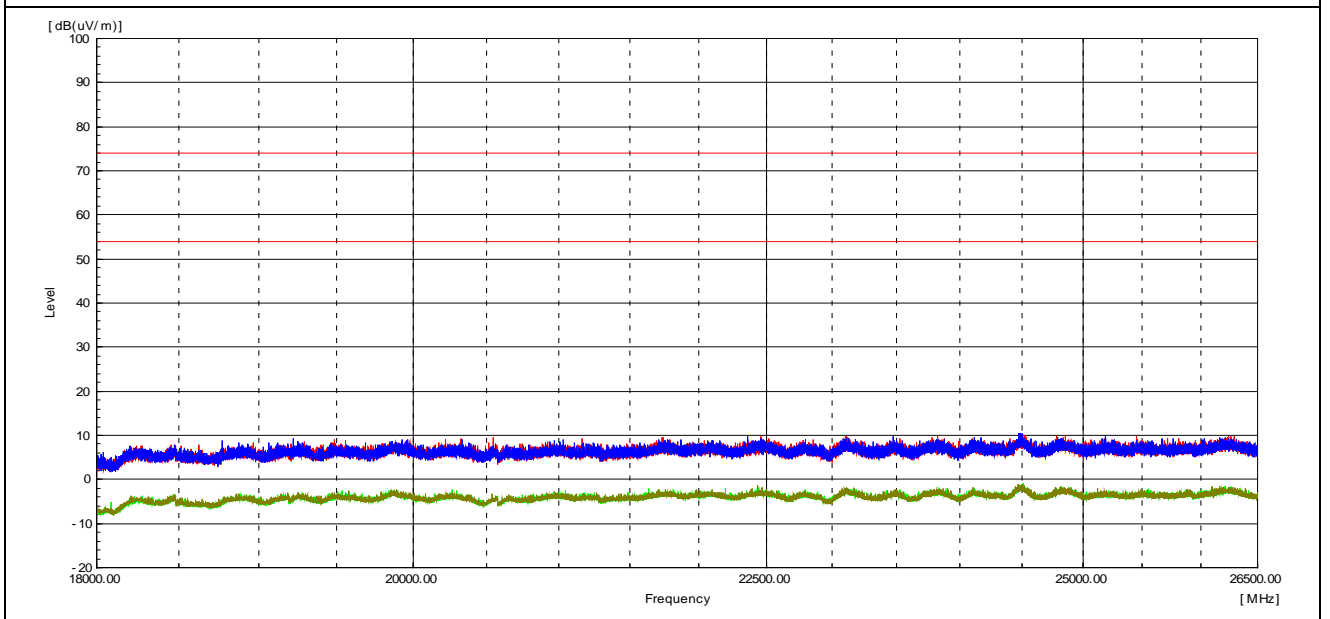
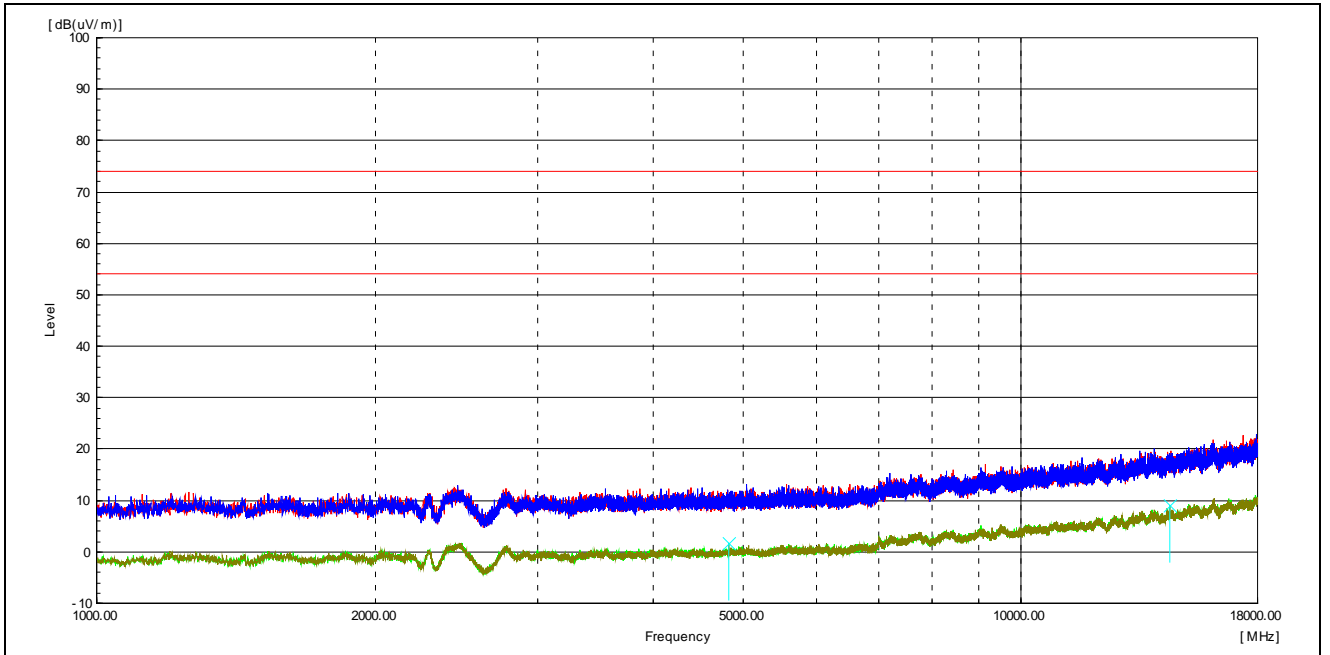
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Test mode : Transmitter (802.11b, ANT L)

Lowest channel 1 (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 383.13 | H | 60.6 | -5.8 | ----- | 54.8 | ----- | 74.0 | ----- | 19.2 | ----- | Peak |
| 2 387.15 | H | 48.3 | -5.8 | 0.0 | ----- | 42.5 | ----- | 54.0 | ----- | 11.5 | Average |
| 2 387.44 | V | 62.8 | -5.8 | ----- | 57.0 | ----- | 74.0 | ----- | 17.0 | ----- | Peak |
| 2 387.11 | V | 49.6 | -5.8 | 0.0 | ----- | 43.8 | ----- | 54.0 | ----- | 10.2 | Average |
| 4 823.77 | H | 48.5 | 2.0 | ----- | 50.5 | ----- | 74.0 | ----- | 23.5 | ----- | Peak |
| 4 824.03 | H | 37.3 | 2.0 | 0.0 | ----- | 39.3 | ----- | 54.0 | ----- | 14.7 | Average |
| 4 824.36 | V | 47.0 | 2.0 | ----- | 49.0 | ----- | 74.0 | ----- | 25.0 | ----- | Peak |
| 4 823.85 | V | 38.5 | 2.0 | 0.0 | ----- | 40.5 | ----- | 54.0 | ----- | 13.5 | Average |
| 7 235.22 | H | 47.4 | 7.9 | ----- | 55.3 | ----- | 74.0 | ----- | 18.7 | ----- | Peak |
| 7 236.57 | H | 36.2 | 7.9 | 0.0 | ----- | 44.1 | ----- | 54.0 | ----- | 9.9 | Average |
| 7 236.75 | V | 49.1 | 7.9 | ----- | 57.0 | ----- | 74.0 | ----- | 17.0 | ----- | Peak |
| 7 237.05 | V | 36.8 | 7.9 | 0.0 | ----- | 44.7 | ----- | 54.0 | ----- | 9.3 | Average |

Lowest channel 2 (2 417 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 4 834.06 | H | 49.9 | 2.0 | ----- | 51.9 | ----- | 74.0 | ----- | 22.1 | ----- | Peak |
| 4 834.09 | H | 37.7 | 2.0 | 0.0 | ----- | 39.7 | ----- | 54.0 | ----- | 14.3 | Average |
| 4 833.48 | V | 48.1 | 2.0 | ----- | 50.1 | ----- | 74.0 | ----- | 23.9 | ----- | Peak |
| 4 833.99 | V | 38.1 | 2.0 | 0.0 | ----- | 40.1 | ----- | 54.0 | ----- | 13.9 | Average |
| 7 249.48 | H | 47.7 | 7.9 | ----- | 55.6 | ----- | 74.0 | ----- | 18.4 | ----- | Peak |
| 7 252.56 | H | 34.8 | 7.9 | 0.0 | ----- | 42.7 | ----- | 54.0 | ----- | 11.3 | Average |
| 7 250.08 | V | 48.5 | 7.9 | ----- | 56.4 | ----- | 74.0 | ----- | 17.6 | ----- | Peak |
| 7 251.64 | V | 36.7 | 7.9 | 0.0 | ----- | 44.6 | ----- | 54.0 | ----- | 9.4 | Average |



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Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 4 883.94 | H | 49.5 | 2.1 | ----- | 51.6 | ----- | 74.0 | ----- | 22.4 | ----- | Peak |
| 4 883.98 | H | 40.2 | 2.1 | 0.0 | ----- | 42.3 | ----- | 54.0 | ----- | 11.7 | Average |
| 4 884.18 | V | 48.4 | 2.1 | ----- | 50.5 | ----- | 74.0 | ----- | 23.5 | ----- | Peak |
| 4 883.95 | V | 39.0 | 2.1 | 0.0 | ----- | 41.1 | ----- | 54.0 | ----- | 12.9 | Average |
| 7 325.50 | H | 47.4 | 7.9 | ----- | 55.3 | ----- | 74.0 | ----- | 18.7 | ----- | Peak |
| 7 325.11 | H | 35.5 | 7.9 | 0.0 | ----- | 43.4 | ----- | 54.0 | ----- | 10.6 | Average |
| 7 327.11 | V | 48.7 | 7.9 | ----- | 56.6 | ----- | 74.0 | ----- | 17.4 | ----- | Peak |
| 7 326.84 | V | 37.0 | 7.9 | 0.0 | ----- | 44.9 | ----- | 54.0 | ----- | 9.1 | Average |

Highest channel 1 (2 467 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.65 | H | 66.8 | -5.3 | ----- | 61.5 | ----- | 74.0 | ----- | 12.5 | ----- | Peak |
| 2 484.31 | H | 57.7 | -5.2 | 0.0 | ----- | 52.5 | ----- | 54.0 | ----- | 1.5 | Average |
| 2 483.55 | V | 61.8 | -5.3 | ----- | 56.5 | ----- | 74.0 | ----- | 17.5 | ----- | Peak |
| 2 484.32 | V | 49.9 | -5.2 | 0.0 | ----- | 44.7 | ----- | 54.0 | ----- | 9.3 | Average |
| 4 933.85 | H | 49.3 | 2.6 | ----- | 51.9 | ----- | 74.0 | ----- | 22.1 | ----- | Peak |
| 4 934.04 | H | 36.8 | 2.6 | 0.0 | ----- | 39.4 | ----- | 54.0 | ----- | 14.6 | Average |
| 4 933.51 | V | 47.1 | 2.6 | ----- | 49.7 | ----- | 74.0 | ----- | 24.3 | ----- | Peak |
| 4 933.90 | V | 35.2 | 2.6 | 0.0 | ----- | 37.8 | ----- | 54.0 | ----- | 16.2 | Average |



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Highest channel 2 (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 485.02 | H | 67.2 | -5.2 | ----- | 62.0 | ----- | 74.0 | ----- | 12.0 | ----- | Peak |
| 2 484.82 | H | 56.0 | -5.2 | 0.0 | ----- | 50.8 | ----- | 54.0 | ----- | 3.2 | Average |
| 2 485.02 | V | 68.6 | -5.2 | ----- | 63.4 | ----- | 74.0 | ----- | 10.6 | ----- | Peak |
| 2 486.75 | V | 58.0 | -5.2 | 0.0 | ----- | 52.8 | ----- | 54.0 | ----- | 1.2 | Average |
| 4 944.29 | H | 45.7 | 2.6 | ----- | 48.3 | ----- | 74.0 | ----- | 25.7 | ----- | Peak |
| 4 944.50 | H | 33.5 | 2.6 | 0.0 | ----- | 36.1 | ----- | 54.0 | ----- | 17.9 | Average |
| 4 944.14 | V | 45.3 | 2.6 | ----- | 47.9 | ----- | 74.0 | ----- | 26.1 | ----- | Peak |
| 4 944.55 | V | 34.1 | 2.6 | 0.0 | ----- | 36.7 | ----- | 54.0 | ----- | 17.3 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

Test mode : Transmitter (802.11b, ANT R)

Lowest channel 1 (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 387.89 | H | 71.7 | -5.8 | ----- | 65.9 | ----- | 74.0 | ----- | 8.1 | ----- | Peak |
| 2 387.32 | H | 53.2 | -5.8 | 0.0 | ----- | 47.4 | ----- | 54.0 | ----- | 6.6 | Average |
| 2 387.45 | V | 59.6 | -5.8 | ----- | 53.8 | ----- | 74.0 | ----- | 20.2 | ----- | Peak |
| 2 387.07 | V | 47.9 | -5.8 | 0.0 | ----- | 42.1 | ----- | 54.0 | ----- | 11.9 | Average |
| 4 824.07 | H | 44.5 | 2.1 | ----- | 46.6 | ----- | 74.0 | ----- | 27.4 | ----- | Peak |
| 4 823.68 | H | 32.1 | 2.1 | 0.0 | ----- | 34.2 | ----- | 54.0 | ----- | 19.8 | Average |
| 4 823.86 | V | 44.6 | 2.1 | ----- | 46.7 | ----- | 74.0 | ----- | 27.3 | ----- | Peak |
| 4 824.14 | V | 33.3 | 2.1 | 0.0 | ----- | 35.4 | ----- | 54.0 | ----- | 18.6 | Average |
| 14 465.57 | H | 43.8 | 16.9 | ----- | 60.7 | ----- | 74.0 | ----- | 13.3 | ----- | Peak |
| 14 466.57 | H | 32.4 | 16.9 | 0.0 | ----- | 49.3 | ----- | 54.0 | ----- | 4.7 | Average |
| 14 471.74 | V | 45.2 | 16.9 | ----- | 62.1 | ----- | 74.0 | ----- | 11.9 | ----- | Peak |
| 14 471.91 | V | 34.5 | 16.9 | 0.0 | ----- | 51.4 | ----- | 54.0 | ----- | 2.6 | Average |

Lowest channel 2 (2 417 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 4 833.79 | H | 46.9 | 2.1 | ----- | 49.0 | ----- | 74.0 | ----- | 25.0 | ----- | Peak |
| 4 833.87 | H | 35.7 | 2.1 | 0.0 | ----- | 37.8 | ----- | 54.0 | ----- | 16.2 | Average |
| 4 834.24 | V | 46.5 | 2.1 | ----- | 48.6 | ----- | 74.0 | ----- | 25.4 | ----- | Peak |
| 4 833.99 | V | 34.4 | 2.1 | 0.0 | ----- | 36.5 | ----- | 54.0 | ----- | 17.5 | Average |
| 14 501.01 | H | 46.0 | 16.8 | ----- | 62.8 | ----- | 74.0 | ----- | 11.2 | ----- | Peak |
| 14 502.32 | H | 34.7 | 16.8 | 0.0 | ----- | 51.5 | ----- | 54.0 | ----- | 2.5 | Average |
| 14 501.12 | V | 47.2 | 16.8 | ----- | 64.0 | ----- | 74.0 | ----- | 10.0 | ----- | Peak |
| 14 501.82 | V | 35.9 | 16.8 | 0.0 | ----- | 52.7 | ----- | 54.0 | ----- | 1.3 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 4 883.97 | H | 46.8 | 2.3 | ----- | 49.1 | ----- | 74.0 | ----- | 24.9 | ----- | Peak |
| 4 883.99 | H | 35.0 | 2.3 | 0.0 | ----- | 37.3 | ----- | 54.0 | ----- | 16.7 | Average |
| 4 884.26 | V | 45.6 | 2.3 | ----- | 47.9 | ----- | 74.0 | ----- | 26.1 | ----- | Peak |
| 4 883.97 | V | 33.8 | 2.3 | 0.0 | ----- | 36.1 | ----- | 54.0 | ----- | 17.9 | Average |
| 14 652.13 | H | 45.5 | 16.1 | ----- | 61.6 | ----- | 74.0 | ----- | 12.4 | ----- | Peak |
| 14 649.90 | H | 34.5 | 16.1 | 0.0 | ----- | 50.6 | ----- | 54.0 | ----- | 3.4 | Average |
| 14 652.12 | V | 45.6 | 16.1 | ----- | 61.7 | ----- | 74.0 | ----- | 12.3 | ----- | Peak |
| 14 652.01 | V | 35.7 | 16.1 | 0.0 | ----- | 51.8 | ----- | 54.0 | ----- | 2.2 | Average |

Highest channel 1 (2 467 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.73 | H | 63.1 | -5.3 | ----- | 57.8 | ----- | 74.0 | ----- | 16.2 | ----- | Peak |
| 2 484.18 | H | 52.5 | -5.2 | 0.0 | ----- | 47.3 | ----- | 54.0 | ----- | 6.7 | Average |
| 2 483.57 | V | 58.4 | -5.3 | ----- | 53.1 | ----- | 74.0 | ----- | 20.9 | ----- | Peak |
| 2 484.25 | V | 50.4 | -5.2 | 0.0 | ----- | 45.2 | ----- | 54.0 | ----- | 8.8 | Average |
| 4 933.94 | H | 45.9 | 2.5 | ----- | 48.4 | ----- | 74.0 | ----- | 25.6 | ----- | Peak |
| 4 934.12 | H | 34.7 | 2.5 | 0.0 | ----- | 37.2 | ----- | 54.0 | ----- | 16.8 | Average |
| 4 933.85 | V | 45.4 | 2.5 | ----- | 47.9 | ----- | 74.0 | ----- | 26.1 | ----- | Peak |
| 4 934.20 | V | 34.0 | 2.5 | 0.0 | ----- | 36.5 | ----- | 54.0 | ----- | 17.5 | Average |
| 14 802.26 | H | 45.6 | 16.0 | ----- | 61.6 | ----- | 74.0 | ----- | 12.4 | ----- | Peak |
| 14 802.52 | H | 34.7 | 16.0 | 0.0 | ----- | 50.7 | ----- | 54.0 | ----- | 3.3 | Average |
| 14 801.85 | V | 47.3 | 16.0 | ----- | 63.3 | ----- | 74.0 | ----- | 10.7 | ----- | Peak |
| 14 801.84 | V | 35.8 | 16.0 | 0.0 | ----- | 51.8 | ----- | 54.0 | ----- | 2.2 | Average |



Highest channel 2 (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 485.06 | H | 63.9 | -5.2 | ----- | 58.7 | ----- | 74.0 | ----- | 15.3 | ----- | Peak |
| 2 484.95 | H | 54.9 | -5.2 | 0.0 | ----- | 49.7 | ----- | 54.0 | ----- | 4.3 | Average |
| 2 485.23 | V | 60.7 | -5.2 | ----- | 55.5 | ----- | 74.0 | ----- | 18.5 | ----- | Peak |
| 2 485.03 | V | 48.4 | -5.2 | 0.0 | ----- | 43.2 | ----- | 54.0 | ----- | 10.8 | Average |
| 4 944.12 | H | 43.4 | 2.5 | ----- | 45.9 | ----- | 74.0 | ----- | 28.1 | ----- | Peak |
| 4 943.91 | H | 32.0 | 2.5 | 0.0 | ----- | 34.5 | ----- | 54.0 | ----- | 19.5 | Average |
| 4 944.06 | V | 45.3 | 2.5 | ----- | 47.8 | ----- | 74.0 | ----- | 26.2 | ----- | Peak |
| 4 943.88 | V | 34.9 | 2.5 | 0.0 | ----- | 37.4 | ----- | 54.0 | ----- | 16.6 | Average |
| 14 831.50 | H | 43.6 | 15.7 | ----- | 59.3 | ----- | 74.0 | ----- | 14.7 | ----- | Peak |
| 14 831.26 | H | 31.7 | 15.7 | 0.0 | ----- | 47.4 | ----- | 54.0 | ----- | 6.6 | Average |
| 14 832.18 | V | 44.7 | 15.7 | ----- | 60.4 | ----- | 74.0 | ----- | 13.6 | ----- | Peak |
| 14 831.95 | V | 34.6 | 15.7 | 0.0 | ----- | 50.3 | ----- | 54.0 | ----- | 3.7 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11g, ANT L)

Lowest channel (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 377.80 | H | 71.5 | -5.8 | ----- | 65.7 | ----- | 74.0 | ----- | 8.3 | ----- | Peak |
| 2 389.89 | H | 45.4 | -5.8 | 0.1 | ----- | 39.7 | ----- | 54.0 | ----- | 14.3 | Average |
| 2 389.51 | V | 71.3 | -5.8 | ----- | 65.5 | ----- | 74.0 | ----- | 8.5 | ----- | Peak |
| 2 389.73 | V | 46.0 | -5.8 | 0.1 | ----- | 40.3 | ----- | 54.0 | ----- | 13.7 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz have no peak data.

Highest channel (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.57 | H | 73.3 | -5.3 | ----- | 68.0 | ----- | 74.0 | ----- | 6.0 | ----- | Peak |
| 2 484.15 | H | 51.2 | -5.2 | 0.1 | ----- | 46.1 | ----- | 54.0 | ----- | 7.9 | Average |
| 2 485.03 | V | 77.6 | -5.2 | ----- | 72.4 | ----- | 74.0 | ----- | 1.6 | ----- | Peak |
| 2 484.44 | V | 52.7 | -5.2 | 0.1 | ----- | 47.6 | ----- | 54.0 | ----- | 6.4 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11g, ANT R)

Lowest channel (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 387.45 | H | 62.9 | -5.8 | ----- | 57.1 | ----- | 74.0 | ----- | 16.9 | ----- | Peak |
| 2 389.86 | H | 44.9 | -5.8 | 0.1 | ----- | 39.2 | ----- | 54.0 | ----- | 14.8 | Average |
| 2 388.00 | V | 58.9 | -5.8 | ----- | 53.1 | ----- | 74.0 | ----- | 20.9 | ----- | Peak |
| 2 354.53 | V | 44.6 | -5.9 | 0.1 | ----- | 38.8 | ----- | 54.0 | ----- | 15.2 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz have no peak data.

Highest channel (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 484.72 | H | 75.6 | -5.2 | ----- | 70.4 | ----- | 74.0 | ----- | 3.6 | ----- | Peak |
| 2 484.09 | H | 52.8 | -5.2 | 0.1 | ----- | 47.7 | ----- | 54.0 | ----- | 6.3 | Average |
| 2 484.37 | V | 69.0 | -5.2 | ----- | 63.8 | ----- | 74.0 | ----- | 10.2 | ----- | Peak |
| 2 484.32 | V | 50.3 | -5.2 | 0.1 | ----- | 45.2 | ----- | 54.0 | ----- | 8.8 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11n_HT20)

Lowest channel (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 389.82 | H | 65.3 | -5.8 | ----- | 59.5 | ----- | 74.0 | ----- | 14.5 | ----- | Peak |
| 2 385.76 | H | 47.0 | -5.8 | 0.1 | ----- | 41.3 | ----- | 54.0 | ----- | 12.7 | Average |
| 2 388.77 | V | 59.6 | -5.8 | ----- | 53.8 | ----- | 74.0 | ----- | 20.2 | ----- | Peak |
| 2 389.78 | V | 44.9 | -5.8 | 0.1 | ----- | 39.2 | ----- | 54.0 | ----- | 14.8 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz have no peak data.

Highest channel (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.77 | H | 77.4 | -5.3 | ----- | 72.1 | ----- | 74.0 | ----- | 1.9 | ----- | Peak |
| 2 483.53 | H | 56.5 | -5.3 | 0.1 | ----- | 51.3 | ----- | 54.0 | ----- | 2.7 | Average |
| 2 484.32 | V | 69.6 | -5.2 | ----- | 64.4 | ----- | 74.0 | ----- | 9.6 | ----- | Peak |
| 2 485.20 | V | 53.5 | -5.2 | 0.1 | ----- | 48.4 | ----- | 54.0 | ----- | 5.6 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11n_HT40)

Lowest channel (2 422 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 389.84 | H | 74.1 | -5.8 | ----- | 68.3 | ----- | 74.0 | ----- | 5.7 | ----- | Peak |
| 2 389.73 | H | 50.0 | -5.8 | 0.3 | ----- | 44.5 | ----- | 54.0 | ----- | 9.5 | Average |
| 2 389.46 | V | 67.4 | -5.8 | ----- | 61.6 | ----- | 74.0 | ----- | 12.4 | ----- | Peak |
| 2 389.55 | V | 46.1 | -5.8 | 0.3 | ----- | 40.6 | ----- | 54.0 | ----- | 13.4 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz have no peak data.

Highest channel (2 462 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.53 | H | 77.5 | -5.3 | ----- | 72.2 | ----- | 74.0 | ----- | 1.8 | ----- | Peak |
| 2 483.72 | H | 58.4 | -5.3 | 0.3 | ----- | 53.4 | ----- | 54.0 | ----- | 0.6 | Average |
| 2 486.42 | V | 72.5 | -5.2 | ----- | 67.3 | ----- | 74.0 | ----- | 6.7 | ----- | Peak |
| 2 483.66 | V | 54.0 | -5.3 | 0.3 | ----- | 49.0 | ----- | 54.0 | ----- | 5.0 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11ax_HE20_26T)

Lowest channel (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 369.79 | H | 75.5 | -5.8 | ----- | 69.7 | ----- | 74.0 | ----- | 4.3 | ----- | Peak |
| 2 384.85 | H | 51.7 | -5.8 | 0.2 | ----- | 46.1 | ----- | 54.0 | ----- | 7.9 | Average |
| 2 370.57 | V | 65.0 | -5.8 | ----- | 59.2 | ----- | 74.0 | ----- | 14.8 | ----- | Peak |
| 2 388.43 | V | 48.5 | -5.8 | 0.2 | ----- | 42.9 | ----- | 54.0 | ----- | 11.1 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.51 | H | 77.5 | -5.3 | ----- | 72.2 | ----- | 74.0 | ----- | 1.8 | ----- | Peak |
| 2 483.51 | H | 50.7 | -5.3 | 0.2 | ----- | 45.6 | ----- | 54.0 | ----- | 8.4 | Average |
| 2 483.60 | V | 72.8 | -5.3 | ----- | 67.5 | ----- | 74.0 | ----- | 6.5 | ----- | Peak |
| 2 483.68 | V | 48.3 | -5.3 | 0.2 | ----- | 43.2 | ----- | 54.0 | ----- | 10.8 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11ax_HE20_52T)

Lowest channel (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 374.25 | H | 72.8 | -5.8 | ----- | 67.0 | ----- | 74.0 | ----- | 7.0 | ----- | Peak |
| 2 377.11 | H | 49.1 | -5.8 | 0.2 | ----- | 43.5 | ----- | 54.0 | ----- | 10.5 | Average |
| 2 373.38 | V | 69.7 | -5.8 | ----- | 63.9 | ----- | 74.0 | ----- | 10.1 | ----- | Peak |
| 2 374.16 | V | 48.9 | -5.8 | 0.2 | ----- | 43.3 | ----- | 54.0 | ----- | 10.7 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.61 | H | 77.0 | -5.3 | ----- | 71.7 | ----- | 74.0 | ----- | 2.3 | ----- | Peak |
| 2 483.82 | H | 50.9 | -5.3 | 0.2 | ----- | 45.8 | ----- | 54.0 | ----- | 8.2 | Average |
| 2 483.72 | V | 71.0 | -5.3 | ----- | 65.7 | ----- | 74.0 | ----- | 8.3 | ----- | Peak |
| 2 483.53 | V | 49.0 | -5.3 | 0.2 | ----- | 43.9 | ----- | 54.0 | ----- | 10.1 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11ax_HE20_106T)

Lowest channel (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 389.29 | H | 72.1 | -5.8 | ----- | 66.3 | ----- | 74.0 | ----- | 7.7 | ----- | Peak |
| 2 388.25 | H | 50.1 | -5.8 | 0.2 | ----- | 44.5 | ----- | 54.0 | ----- | 9.5 | Average |
| 2 380.54 | V | 72.3 | -5.8 | ----- | 66.5 | ----- | 74.0 | ----- | 7.5 | ----- | Peak |
| 2 313.30 | V | 48.9 | -5.9 | 0.2 | ----- | 43.2 | ----- | 54.0 | ----- | 10.8 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.64 | H | 77.0 | -5.3 | ----- | 71.7 | ----- | 74.0 | ----- | 2.3 | ----- | Peak |
| 2 483.56 | H | 51.0 | -5.3 | 0.2 | ----- | 45.9 | ----- | 54.0 | ----- | 8.1 | Average |
| 2 483.60 | V | 70.0 | -5.3 | ----- | 64.7 | ----- | 74.0 | ----- | 9.3 | ----- | Peak |
| 2 499.51 | V | 48.6 | -5.1 | 0.2 | ----- | 43.7 | ----- | 54.0 | ----- | 10.3 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

Test mode : Transmitter (802.11ax_HE20_242T)

Lowest channel (2 412 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 484.24 | H | 67.6 | -5.2 | ----- | 62.4 | ----- | 74.0 | ----- | 11.6 | ----- | Peak |
| 2 483.57 | H | 53.1 | -5.3 | 0.3 | ----- | 48.1 | ----- | 54.0 | ----- | 5.9 | Average |
| 2 488.09 | V | 60.5 | -5.2 | ----- | 55.3 | ----- | 74.0 | ----- | 18.7 | ----- | Peak |
| 2 498.73 | V | 48.3 | -5.1 | 0.3 | ----- | 43.5 | ----- | 54.0 | ----- | 10.5 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz have no peak data.

Highest channel (2 472 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 388.19 | H | 72.8 | -5.8 | ----- | 67.0 | ----- | 74.0 | ----- | 7.0 | ----- | Peak |
| 2 389.59 | H | 49.6 | -5.8 | 0.3 | ----- | 44.1 | ----- | 54.0 | ----- | 9.9 | Average |
| 2 389.71 | V | 65.3 | -5.8 | ----- | 59.5 | ----- | 74.0 | ----- | 14.5 | ----- | Peak |
| 2 389.50 | V | 48.7 | -5.8 | 0.3 | ----- | 43.2 | ----- | 54.0 | ----- | 10.8 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

Test mode : Transmitter (802.11ax_HE40_26T)

Lowest channel (2 422 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 386.26 | H | 77.6 | -5.8 | ----- | 71.8 | ----- | 74.0 | ----- | 2.2 | ----- | Peak |
| 2 389.60 | H | 52.9 | -5.8 | 0.2 | ----- | 47.3 | ----- | 54.0 | ----- | 6.7 | Average |
| 2 389.22 | V | 69.8 | -5.8 | ----- | 64.0 | ----- | 74.0 | ----- | 10.0 | ----- | Peak |
| 2 386.27 | V | 46.0 | -5.8 | 0.2 | ----- | 40.4 | ----- | 54.0 | ----- | 13.6 | Average |
| 4 841.37 | H | 47.7 | 2.1 | ----- | 49.8 | ----- | 74.0 | ----- | 24.2 | ----- | Peak |
| 4 841.25 | H | 32.6 | 2.1 | 0.2 | ----- | 34.9 | ----- | 54.0 | ----- | 19.1 | Average |
| 4 893.01 | V | 44.0 | 2.4 | ----- | 46.4 | ----- | 74.0 | ----- | 27.6 | ----- | Peak |
| 4 841.08 | V | 32.4 | 2.1 | 0.2 | ----- | 34.7 | ----- | 54.0 | ----- | 19.3 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 462 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 483.94 | H | 77.9 | -5.3 | ----- | 72.6 | ----- | 74.0 | ----- | 1.4 | ----- | Peak |
| 2 484.60 | H | 47.8 | -5.2 | 0.2 | ----- | 42.8 | ----- | 54.0 | ----- | 11.2 | Average |
| 2 484.36 | V | 72.4 | -5.2 | ----- | 67.2 | ----- | 74.0 | ----- | 6.8 | ----- | Peak |
| 2 484.95 | V | 45.2 | -5.2 | 0.2 | ----- | 40.2 | ----- | 54.0 | ----- | 13.8 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11ax_HE40_52T)

Lowest channel (2 422 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 389.47 | H | 75.7 | -5.8 | ----- | 69.9 | ----- | 74.0 | ----- | 4.1 | ----- | Peak |
| 2 389.86 | H | 53.6 | -5.8 | 0.1 | ----- | 47.9 | ----- | 54.0 | ----- | 6.1 | Average |
| 2 389.33 | V | 69.0 | -5.8 | ----- | 63.2 | ----- | 74.0 | ----- | 10.8 | ----- | Peak |
| 2 389.89 | V | 46.1 | -5.8 | 0.1 | ----- | 40.4 | ----- | 54.0 | ----- | 13.6 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 462 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 484.01 | H | 75.8 | -5.3 | ----- | 70.5 | ----- | 74.0 | ----- | 3.5 | ----- | Peak |
| 2 484.59 | H | 48.3 | -5.2 | 0.1 | ----- | 43.2 | ----- | 54.0 | ----- | 10.8 | Average |
| 2 484.70 | V | 70.6 | -5.2 | ----- | 65.4 | ----- | 74.0 | ----- | 8.6 | ----- | Peak |
| 2 484.54 | V | 44.9 | -5.2 | 0.1 | ----- | 39.8 | ----- | 54.0 | ----- | 14.2 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11ax_HE40_106T)

Lowest channel (2 422 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 389.09 | H | 77.4 | -5.8 | ----- | 71.6 | ----- | 74.0 | ----- | 2.4 | ----- | Peak |
| 2 389.85 | H | 54.3 | -5.8 | 0.2 | ----- | 48.7 | ----- | 54.0 | ----- | 5.3 | Average |
| 2 389.94 | V | 69.6 | -5.8 | ----- | 63.8 | ----- | 74.0 | ----- | 10.2 | ----- | Peak |
| 2 388.50 | V | 46.5 | -5.8 | 0.2 | ----- | 40.9 | ----- | 54.0 | ----- | 13.1 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 462 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 484.07 | H | 74.6 | -5.2 | ----- | 69.4 | ----- | 74.0 | ----- | 4.6 | ----- | Peak |
| 2 484.15 | H | 47.8 | -5.2 | 0.2 | ----- | 42.8 | ----- | 54.0 | ----- | 11.2 | Average |
| 2 484.67 | V | 68.3 | -5.2 | ----- | 63.1 | ----- | 74.0 | ----- | 10.9 | ----- | Peak |
| 2 484.32 | V | 44.8 | -5.2 | 0.2 | ----- | 39.8 | ----- | 54.0 | ----- | 14.2 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11ax_HE40_242T)

Lowest channel (2 422 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 388.44 | H | 77.3 | -5.8 | ----- | 71.5 | ----- | 74.0 | ----- | 2.5 | ----- | Peak |
| 2 389.49 | H | 55.5 | -5.8 | 0.3 | ----- | 50.0 | ----- | 54.0 | ----- | 4.0 | Average |
| 2 389.94 | V | 71.1 | -5.8 | ----- | 65.3 | ----- | 74.0 | ----- | 8.7 | ----- | Peak |
| 2 389.98 | V | 47.5 | -5.8 | 0.3 | ----- | 42.0 | ----- | 54.0 | ----- | 12.0 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|------------------------------------------------------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
| The emissions above 1 GHz were 20 dB lower than the limit. | | | | | | | | | | | |

Highest channel (2 462 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 485.33 | H | 74.8 | -5.2 | ----- | 69.6 | ----- | 74.0 | ----- | 4.4 | ----- | Peak |
| 2 483.55 | H | 53.8 | -5.3 | 0.3 | ----- | 48.8 | ----- | 54.0 | ----- | 5.2 | Average |
| 2 486.97 | V | 66.9 | -5.2 | ----- | 61.7 | ----- | 74.0 | ----- | 12.3 | ----- | Peak |
| 2 484.19 | V | 47.5 | -5.2 | 0.3 | ----- | 42.6 | ----- | 54.0 | ----- | 11.4 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



Test mode : Transmitter (802.11ax_HE40_484T)

Lowest channel (2 422 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 385.95 | H | 76.5 | -5.8 | ----- | 70.7 | ----- | 74.0 | ----- | 3.3 | ----- | Peak |
| 2 389.75 | H | 57.0 | -5.8 | 0.3 | ----- | 51.5 | ----- | 54.0 | ----- | 2.5 | Average |
| 2 389.27 | V | 68.3 | -5.8 | ----- | 62.5 | ----- | 74.0 | ----- | 11.5 | ----- | Peak |
| 2 389.99 | V | 47.6 | -5.8 | 0.3 | ----- | 42.1 | ----- | 54.0 | ----- | 11.9 | Average |

Middle channel (2 442 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|------|

The emissions above 1 GHz have no peak data.

Highest channel (2 462 MHz)

| Frequency [MHz] | (P) | Reading [dBuV] | c.f [dB(1/m)] | Duty Cycle Factor [dB] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] | Note |
|-----------------|-----|----------------|---------------|------------------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|---------|
| 2 492.35 | H | 73.6 | -5.2 | ----- | 68.4 | ----- | 74.0 | ----- | 5.6 | ----- | Peak |
| 2 483.52 | H | 54.0 | -5.3 | 0.3 | ----- | 49.0 | ----- | 54.0 | ----- | 5.0 | Average |
| 2 486.63 | V | 66.5 | -5.2 | ----- | 61.3 | ----- | 74.0 | ----- | 12.7 | ----- | Peak |
| 2 483.60 | V | 48.3 | -5.3 | 0.3 | ----- | 43.3 | ----- | 54.0 | ----- | 10.7 | Average |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



4.6 AC Conducted Emissions

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|-----------|
| | Quasi-peak | Average** |
| 0.15 ~ 0.5 | 66 to 56* | 56 to 46* |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

* The level decreases linearly with the logarithm of the frequency.

** A linear average detector is required.

Test Results

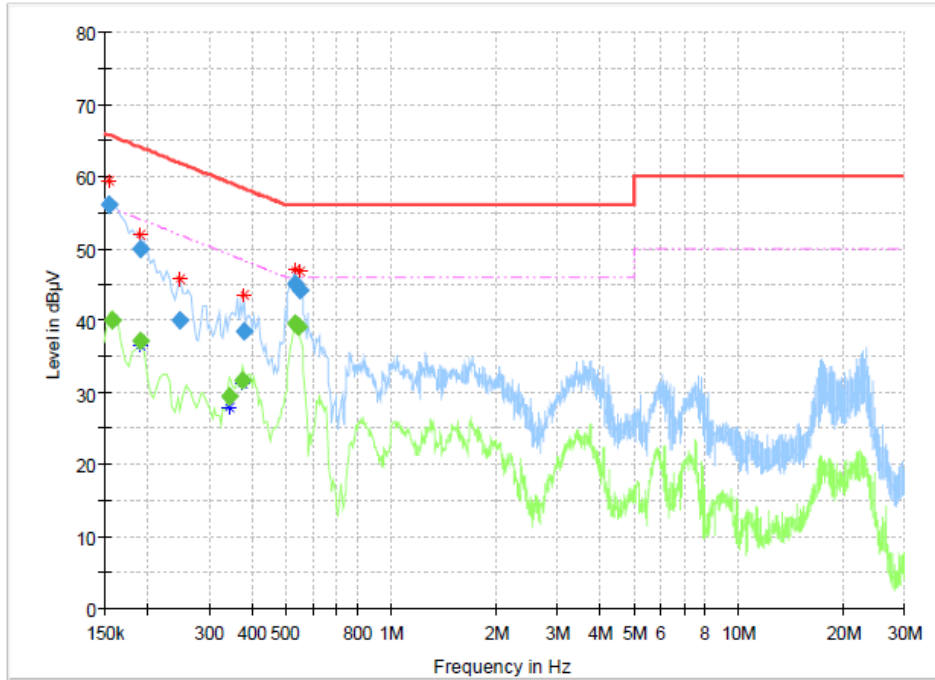
The requirements are:

Complies

Test Data

[LINE]

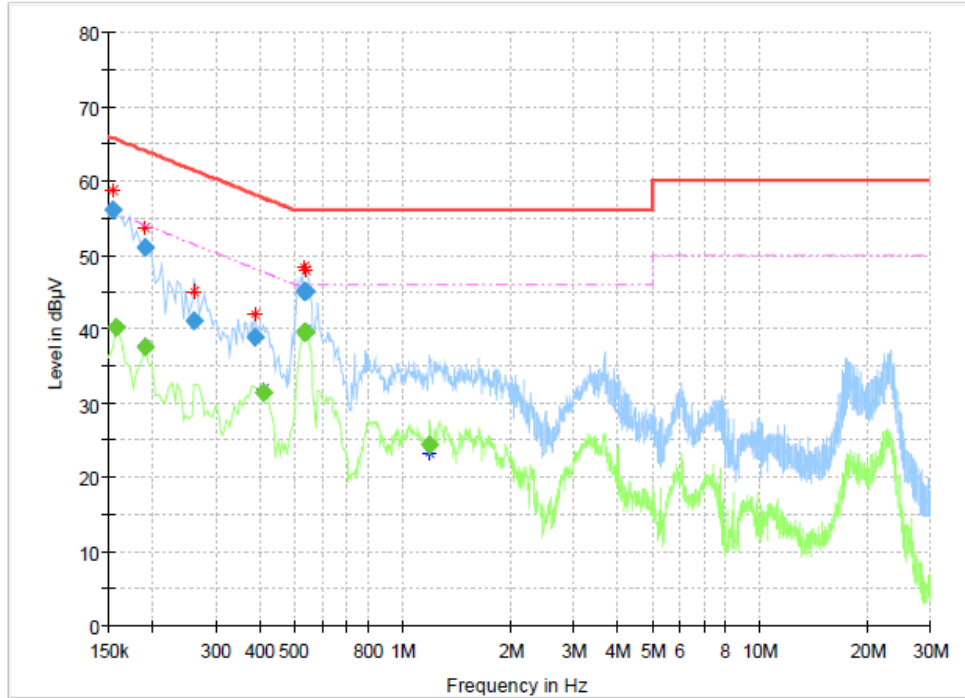
Full Spectrum



Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.154500 | 55.96 | --- | 65.75 | 9.80 | 15000.0 | 9.000 | L1 | ON | 9.8 |
| 0.159000 | --- | 39.97 | 55.52 | 15.54 | 15000.0 | 9.000 | L1 | ON | 9.9 |
| 0.190500 | --- | 37.15 | 54.02 | 16.87 | 15000.0 | 9.000 | L1 | ON | 9.9 |
| 0.190500 | 49.82 | --- | 64.02 | 14.19 | 15000.0 | 9.000 | L1 | ON | 9.9 |
| 0.249000 | 39.91 | --- | 61.79 | 21.88 | 15000.0 | 9.000 | L1 | ON | 9.6 |
| 0.343500 | --- | 29.41 | 49.12 | 19.71 | 15000.0 | 9.000 | L1 | ON | 9.8 |
| 0.375000 | --- | 31.70 | 48.39 | 16.69 | 15000.0 | 9.000 | L1 | ON | 9.9 |
| 0.379500 | 38.49 | --- | 58.29 | 19.80 | 15000.0 | 9.000 | L1 | ON | 9.9 |
| 0.532500 | 45.01 | --- | 56.00 | 10.99 | 15000.0 | 9.000 | L1 | ON | 10.0 |
| 0.532500 | --- | 39.47 | 46.00 | 6.53 | 15000.0 | 9.000 | L1 | ON | 10.0 |
| 0.541500 | --- | 39.19 | 46.00 | 6.81 | 15000.0 | 9.000 | L1 | ON | 10.0 |
| 0.546000 | 44.20 | --- | 56.00 | 11.80 | 15000.0 | 9.000 | L1 | ON | 10.0 |

[NEUTRAL]
Full Spectrum



Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.154500 | 56.04 | --- | 65.75 | 9.72 | 15000.0 | 9.000 | N | ON | 9.9 |
| 0.159000 | --- | 40.12 | 55.52 | 15.39 | 15000.0 | 9.000 | N | ON | 9.9 |
| 0.190500 | --- | 37.55 | 54.02 | 16.46 | 15000.0 | 9.000 | N | ON | 10.0 |
| 0.190500 | 50.88 | --- | 64.02 | 13.13 | 15000.0 | 9.000 | N | ON | 10.0 |
| 0.262500 | 41.03 | --- | 61.35 | 20.32 | 15000.0 | 9.000 | N | ON | 9.8 |
| 0.388500 | 38.83 | --- | 58.10 | 19.27 | 15000.0 | 9.000 | N | ON | 9.9 |
| 0.411000 | --- | 31.52 | 47.63 | 16.11 | 15000.0 | 9.000 | N | ON | 9.9 |
| 0.532500 | --- | 39.60 | 46.00 | 6.40 | 15000.0 | 9.000 | N | ON | 10.0 |
| 0.532500 | 45.07 | --- | 56.00 | 10.93 | 15000.0 | 9.000 | N | ON | 10.0 |
| 0.537000 | --- | 39.59 | 46.00 | 6.41 | 15000.0 | 9.000 | N | ON | 10.0 |
| 0.537000 | 45.02 | --- | 56.00 | 10.98 | 15000.0 | 9.000 | N | ON | 10.0 |
| 1.194000 | --- | 24.33 | 46.00 | 21.67 | 15000.0 | 9.000 | N | ON | 9.8 |



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Report No.:
 CTK-2023-01325
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APPENDIX A – Test Equipment Used For Tests

| | Name of Equipment | Manufacturer | Model No. | Serial No. | Date of Calibration | Due Date |
|----|-----------------------------|-------------------|-------------|-----------------|---------------------|------------|
| 1 | Signal Analyzer | Agilent | N9020A | MY49101016 | 2022-10-07 | 2023-10-07 |
| 2 | Signal Analyzer | Agilent | N9020A | MY46471102 | 2023-01-11 | 2024-01-11 |
| 3 | Signal Generator | Rohde & Schwarz | SMB100A | 175528 | 2023-03-22 | 2024-03-22 |
| 4 | Power Meter | Anritsu | ML2488B | 0924006 | 2022-10-13 | 2023-10-13 |
| 5 | Wide Bandwidth Sensor | Anritsu | MA2491A | 0845498 | 2022-10-14 | 2023-10-14 |
| 6 | EMI TEST RECEIVER | Rohde & Schwarz | ESW44 | 102039 | 2022-05-04 | 2023-05-04 |
| | | | | | 2023-05-03 | 2024-05-03 |
| 7 | BILOG ANTENNA | TESEQ | CBL6111D | 60654 | 2021-09-03 | 2023-09-03 |
| 8 | Active Loop Antenna | SCHWARZBECK | FMZB 1513 | 1513-125 | 2022-04-15 | 2024-04-15 |
| 9 | 6dB Attenuator | PASTERNAK | PE7AP006-06 | L20210504000023 | 2022-08-10 | 2023-08-10 |
| 10 | AMPLIFIER | SONOMA INSTRUMENT | 310N | 411011 | 2022-08-10 | 2023-08-10 |
| 11 | Spectrum Analyzer | R&S | FSV40 | 101574 | 2023-01-11 | 2024-01-11 |
| 12 | PRE AMPLIFIER | HP | 8449B | 3008A00620 | 2023-04-21 | 2024-04-21 |
| 13 | Double Ridged Guide Antenna | ETS-Lindgren | 3115 | 00078895 | 2023-04-13 | 2024-04-13 |
| 14 | HORN ANTENNA | SCHWARZBECK | BBHA9170 | 1153 | 2022-10-31 | 2023-10-31 |
| 15 | LOW NOISE AMPLIFIER | TESTEK | TK-PA1840H | 210124-L | 2022-11-09 | 2023-11-09 |
| 16 | Band Reject Filter | Micro Tronics | BRM50702 | G233 | 2023-01-03 | 2024-01-03 |
| 17 | EMI Test Receiver | R&S | ESR3 | 102826 | 2022-05-04 | 2023-05-04 |
| | | | | | 2023-05-03 | 2024-05-03 |
| 18 | LISN | R&S | ENV216 | 102698 | 2022-05-13 | 2023-05-13 |
| | | | | | 2023-05-03 | 2024-05-03 |



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| | Cable | Manufacturer | Model No. | Serial No. | Check Date |
|----|----------------------------------------|---------------------|------------------|-------------------|-------------------|
| 1 | RF Cable (Conducted) | Junkosha Inc. | MWX221 | 1512S151 | 2023-03-21 |
| 2 | RF Cable (Conducted) | Junkosha Inc. | MWX221 | 1512S148 | 2023-03-21 |
| 3 | RF Cable (Line Conducted) | Canare Corporation | L-5D2W | N/A | 2023-03-06 |
| 4 | RF Cable (9 kHz - 1 GHz Radiated) | HUBER+SUHNER | SUCOFLEX 104 | MY27558/4 | 2023-03-06 |
| 5 | RF Cable (9 kHz - 1 GHz Radiated) | HUBER+SUHNER | L-5D2W | N/A | 2023-03-06 |
| 6 | RF Cable (1 GHz - 18 GHz Radiated) | Junkosha Inc. | MWX221 | 2008S246 | 2023-04-03 |
| 7 | RF Cable (1 GHz - 18 GHz Radiated) | Junkosha Inc. | MWX221 | J0970749 | 2023-04-03 |
| 8 | RF Cable (1 GHz - 18 GHz Radiated) | Sensorview Co., LTD | 13A26 | TPC2204060007 | 2023-04-03 |
| 9 | RF Cable (18 GHz - 40 GHz Radiated) | Sensorview Co., LTD | 9S40 | TPC2204060009 | 2022-04-14 |
| 10 | RF Cable (18 GHz - 40 GHz Radiated) | Sensorview Co., LTD | 9A40 | TP210713-001 | 2022-04-14 |

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