

## **5.8 Conducted Band Edge (Non-Restricted Band)**

### **5.8.1 Emissions in non-restricted frequency bands - Test Requirement**

15.247 / LP0002 (2018-01-10) (3.10.1.5) (2.8):

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RSS-Gen Issue 5 Section 8.9

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

RSS-Gen Issue 5 Section 8.10

(b)

Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.

(c)

Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

## 5.8.2 Emissions in non-restricted frequency bands - Test Method

Ref. KDB 558074 D01 DTS Meas. Guidance v04

ANSI C63.10: 2013

| <b>Emissions in non-restricted frequency bands - Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ol style="list-style-type: none"> <li>1. Connect the antenna port(s) to the spectrum analyzer input.</li> <li>2. Place the radio in continuous transmit mode</li> <li>3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).</li> <li>4. Use the marker function to determine the maximum spurs amplitude level.</li> <li>5. Capture graphs and record pertinent measurement data.</li> </ol> |

Ref. 558074 D01 DTS Meas. Guidance v04 section 11.1b, 11.2, 11.3

ANSI C63.10: 2013 section 11.11.1b, 11.11.12, 11.11.13

| <b>Emissions in non-restricted frequency bands - Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>11.2 Reference Level measurement</b><br>Establish a reference level by using the following procedure:<br><ol style="list-style-type: none"> <li>a) Set instrument center frequency to DTS channel center frequency.</li> <li>b) Set the span to <math>\geq 1.5 \times DTS \text{ bandwidth}</math>.</li> <li>c) Set the RBW = 100 kHz.</li> <li>d) Set the VBW <math>\geq 3 \times RBW</math>.</li> <li>e) Detector = peak.</li> <li>f) Sweep time = auto couple.</li> <li>g) Trace mode = max hold.</li> <li>h) Allow trace to fully stabilize.</li> <li>i) Use the peak marker function to determine the maximum PSD level.</li> </ol> | <b>11.3 Emission Level Measurement</b><br><ol style="list-style-type: none"> <li>a) Set the center frequency and span to encompass frequency range to be measured.</li> <li>b) Set the RBW = 100 kHz.</li> <li>c) Set the VBW <math>\geq 3 \times RBW</math>.</li> <li>d) Detector = peak.</li> <li>e) Sweep time = auto couple.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use the peak marker function to determine the maximum amplitude level.</li> </ol> |

### 5.8.3 Emissions in non-restricted frequency bands – Test Information

#### Samples, Systems, and Modes

| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S02     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| <b>Tested By:</b><br>Julian Land | <b>Date of testing:</b><br>11/5/2018 – 11/8/2018 |
| <b>Test Result:</b> PASS         |                                                  |

#### Test Equipment

See Appendix A for list of test equipment

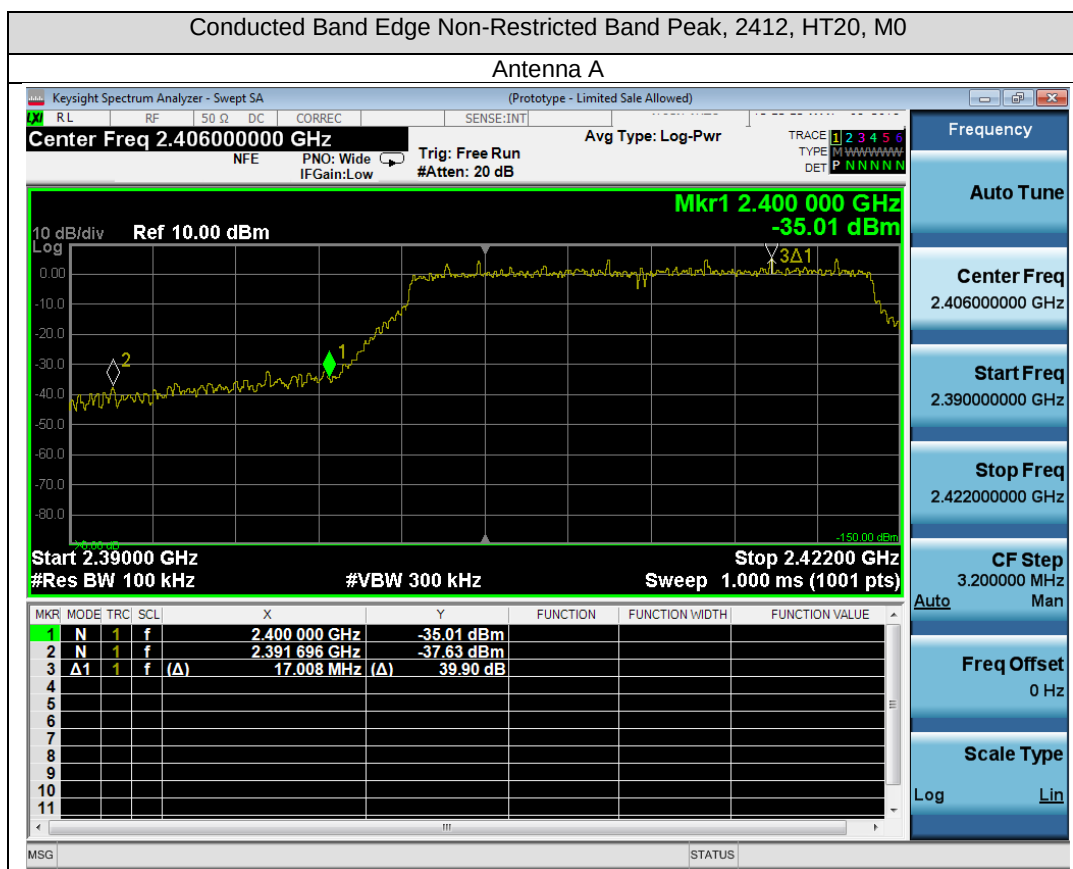
### 5.8.4 Emissions in non-restricted frequency bands – Data Tables

| Frequency (MHz) | Mode                                | Data Rate (Mbps) | Index Power (dBm) | Conducted Bandedge Delta (dB) | Limit (dBc) | Margin (dB) |
|-----------------|-------------------------------------|------------------|-------------------|-------------------------------|-------------|-------------|
| 2412            | CCK, 1 to 11 MB/s                   | 11               | 17                | 60.7                          | >30         | 30.7        |
|                 | CCK, 1 to 11 MB/s                   | 11               | 17                | 60.7                          | >30         | 30.7        |
|                 | CCK, 1 to 11 MB/s                   | 11               | 17                | 60.7                          | >30         | 30.7        |
|                 | CCK, 1 to 11 MB/s                   | 11               | 17                | 60.7                          | >30         | 30.7        |
|                 | Non HT20, 6 to 54 Mbps              | 6                | 15                | 44.2                          | >30         | 14.2        |
|                 | Non HT20, 6 to 54 Mbps              | 6                | 15                | 44.2                          | >30         | 14.2        |
|                 | Non HT20, 6 to 54 Mbps              | 6                | 14                | 45.6                          | >30         | 15.6        |
|                 | Non HT20, 6 to 54 Mbps              | 6                | 14                | 45.6                          | >30         | 15.6        |
|                 | Non HT20 Beam Forming, 6 to 54 Mbps | 6                | 14                | 45.6                          | >30         | 15.6        |
|                 | Non HT20 Beam Forming, 6 to 54 Mbps | 6                | 13                | 46.7                          | >30         | 16.7        |
|                 | Non HT20 Beam Forming, 6 to 54 Mbps | 6                | 11                | 47                            | >30         | 17.0        |
|                 | HT20, M0 to M7                      | m0               | 16                | 39.9                          | >30         | 9.9         |
|                 | HT20, M0 to M7                      | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20, M8 to M15                     | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20, M0 to M7                      | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20, M8 to M15                     | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20, M16 to M23                    | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20, M0 to M7                      | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20, M8 to M15                     | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20, M16 to M23                    | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20, M24 to M31                    | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20 Beam Forming, M0 to M7         | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20 Beam Forming, M8 to M15        | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20 Beam Forming, M0 to M7         | m0               | 13                | 46.5                          | >30         | 16.5        |
|                 | HT20 Beam Forming, M8 to M15        | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20 Beam Forming, M16 to M23       | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20 Beam Forming, M0 to M7         | m0               | 11                | 46.4                          | >30         | 16.4        |
|                 | HT20 Beam Forming, M8 to M15        | m0               | 13                | 46.5                          | >30         | 16.5        |
|                 | HT20 Beam Forming, M16 to M23       | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20 Beam Forming, M24 to M31       | m0               | 14                | 44.7                          | >30         | 14.7        |
|                 | HT20 STBC, M0 to M7                 | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20 STBC, M0 to M7                 | m0               | 15                | 40.9                          | >30         | 10.9        |
|                 | HT20 STBC, M0 to M7                 | m0               | 14                | 44.7                          | >30         | 14.7        |

|      |                                     |      |    |      |      |      |
|------|-------------------------------------|------|----|------|------|------|
|      | HE20, M0 to M7                      | m0h1 | 16 | 41.1 | > 30 | 11.1 |
|      | HE20, M0 to M7                      | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20, M8 to M15                     | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20, M0 to M7                      | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20, M8 to M15                     | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20, M16 to M23                    | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20, M0 to M7                      | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      | HE20, M8 to M15                     | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      | HE20, M16 to M23                    | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      | HE20, M24 to M31                    | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      | HE20 Beam Forming, M0 to M7         | m0h1 | 14 | 44.9 | > 30 | 14.9 |
|      | HE20 Beam Forming, M8 to M15        | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20 Beam Forming, M0 to M7         | m0h1 | 13 | 47.8 | > 30 | 17.8 |
|      | HE20 Beam Forming, M8 to M15        | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      | HE20 Beam Forming, M16 to M23       | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20 Beam Forming, M0 to M7         | m0h1 | 11 | 48.7 | > 30 | 18.7 |
|      | HE20 Beam Forming, M8 to M15        | m0h1 | 13 | 47.8 | > 30 | 17.8 |
|      | HE20 Beam Forming, M16 to M23       | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      | HE20 Beam Forming, M24 to M31       | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      | HE20 STBC, M0 to M7                 | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20 STBC, M0 to M7                 | m0h1 | 15 | 44.9 | > 30 | 14.9 |
|      | HE20 STBC, M0 to M7                 | m0h1 | 14 | 47.7 | > 30 | 17.7 |
|      |                                     |      |    |      |      |      |
| 2462 | CCK, 1 to 11 MB/s                   | 11   | 17 | 63.1 | >30  | 33.1 |
|      | CCK, 1 to 11 MB/s                   | 11   | 17 | 63.1 | >30  | 33.1 |
|      | CCK, 1 to 11 MB/s                   | 11   | 17 | 63.1 | >30  | 33.1 |
|      | CCK, 1 to 11 MB/s                   | 11   | 17 | 63.1 | >30  | 33.1 |
|      | Non HT20, 6 to 54 Mbps              | 6    | 15 | 51   | >30  | 21.0 |
|      | Non HT20, 6 to 54 Mbps              | 6    | 15 | 51   | >30  | 21.0 |
|      | Non HT20, 6 to 54 Mbps              | 6    | 14 | 54.1 | >30  | 24.1 |
|      | Non HT20, 6 to 54 Mbps              | 6    | 14 | 54.1 | >30  | 24.1 |
|      | Non HT20 Beam Forming, 6 to 54 Mbps | 6    | 14 | 54.1 | >30  | 24.1 |
|      | Non HT20 Beam Forming, 6 to 54 Mbps | 6    | 13 | 55.4 | >30  | 25.4 |
|      | Non HT20 Beam Forming, 6 to 54 Mbps | 6    | 12 | 57.3 | >30  | 27.3 |
|      | HT20, M0 to M7                      | m0   | 15 | 47.9 | >30  | 17.9 |
|      | HT20, M0 to M7                      | m0   | 15 | 47.9 | >30  | 17.9 |
|      | HT20, M8 to M15                     | m0   | 15 | 47.9 | >30  | 17.9 |
|      | HT20, M0 to M7                      | m0   | 14 | 52.5 | >30  | 22.5 |
|      | HT20, M8 to M15                     | m0   | 14 | 52.5 | >30  | 22.5 |
|      | HT20, M16 to M23                    | m0   | 14 | 52.5 | >30  | 22.5 |

|  |                               |      |    |      |      |      |
|--|-------------------------------|------|----|------|------|------|
|  | HT20, M0 to M7                | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20, M8 to M15               | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20, M16 to M23              | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20, M24 to M31              | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20 Beam Forming, M0 to M7   | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20 Beam Forming, M8 to M15  | m0   | 15 | 47.9 | >30  | 17.9 |
|  | HT20 Beam Forming, M0 to M7   | m0   | 13 | 54.5 | >30  | 24.5 |
|  | HT20 Beam Forming, M8 to M15  | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20 Beam Forming, M16 to M23 | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20 Beam Forming, M0 to M7   | m0   | 12 | 56.6 | >30  | 26.6 |
|  | HT20 Beam Forming, M8 to M15  | m0   | 13 | 54.5 | >30  | 24.5 |
|  | HT20 Beam Forming, M16 to M23 | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20 Beam Forming, M24 to M31 | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20 STBC, M0 to M7           | m0   | 15 | 47.9 | >30  | 17.9 |
|  | HT20 STBC, M0 to M7           | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HT20 STBC, M0 to M7           | m0   | 14 | 52.5 | >30  | 22.5 |
|  | HE20, M0 to M7                | m0h1 | 14 | 50.8 | > 30 | 20.8 |
|  | HE20, M0 to M7                | m0h1 | 14 | 50.8 | > 30 | 20.8 |
|  | HE20, M8 to M15               | m0h1 | 14 | 50.8 | > 30 | 20.8 |
|  | HE20, M0 to M7                | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20, M8 to M15               | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20, M16 to M23              | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20, M0 to M7                | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20, M8 to M15               | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20, M16 to M23              | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20, M24 to M31              | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20 Beam Forming, M0 to M7   | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20 Beam Forming, M8 to M15  | m0h1 | 14 | 50.8 | > 30 | 20.8 |
|  | HE20 Beam Forming, M0 to M7   | m0h1 | 12 | 49.5 | > 30 | 19.5 |
|  | HE20 Beam Forming, M8 to M15  | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20 Beam Forming, M16 to M23 | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20 Beam Forming, M0 to M7   | m0h1 | 11 | 57.4 | > 30 | 27.4 |
|  | HE20 Beam Forming, M8 to M15  | m0h1 | 12 | 49.5 | > 30 | 19.5 |
|  | HE20 Beam Forming, M16 to M23 | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20 Beam Forming, M24 to M31 | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20 STBC, M0 to M7           | m0h1 | 14 | 50.8 | > 30 | 20.8 |
|  | HE20 STBC, M0 to M7           | m0h1 | 13 | 50.5 | > 30 | 20.5 |
|  | HE20 STBC, M0 to M7           | m0h1 | 13 | 50.5 | > 30 | 20.5 |

## 5.8.5 Emissions in non-restricted frequency bands – Screenshots



## **Section 6: System Test Results**

### **6.1 Radiated Spurious Emissions**

#### **6.1.1 Radiated Transmitter Spurious Emissions – Test Requirement**

15.205 / RSS-Gen / LP0002 (2018-01-10) (3.10.1.5) (2.8):

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) and RSS-Gen 8.10, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)) and RSS-Gen 8.9.

RSS-Gen Issue 5 Section 8.9

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

RSS-Gen Issue 5 Section 8.10

(b)

Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.

(c)

Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

### 6.1.2 Radiated Transmitter Spurious Emissions - Test Method

Ref. ANSI C63.10: 2013 section 4.1.4.2.2, 4.1.4.2.3, 6.6.4 & 11.12.2

| <b>Radiated Spurious Emissions</b>                                                                                                             |                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Test parameters                                                                                                                                |                                                                                                                                                |
| <b>Peak</b><br>Span = 1-18GHz /18GHz-26.5GHz<br>RBW = 1 MHz<br>VBW $\geq$ 3 MHz<br>Sweep = Auto couple<br>Detector = Peak<br>Trace = Max Hold. | <b>Average</b><br>Span = 1-18GHz /18GHz-26.5GHz<br>RBW = 1 MHz<br>VBW $\geq$ 3 MHz<br>Sweep = Auto couple<br>Detector = RMS<br>Power Averaging |

Using Vasona, configure the spectrum analyzer as shown above (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode. Terminate the access Point RF ports with 50-ohm loads.

Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

Save 2 plots:1) Average Plot (Vertical and Horizontal), Limit= 54dBuV/m @3m  
 2) Peak plot (Vertical and Horizontal), Limit = 74dBuV/m @3m

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance.

Also measure any emissions in the restricted bands.

This report represents the worst-case data for all supported operating modes and antennas.

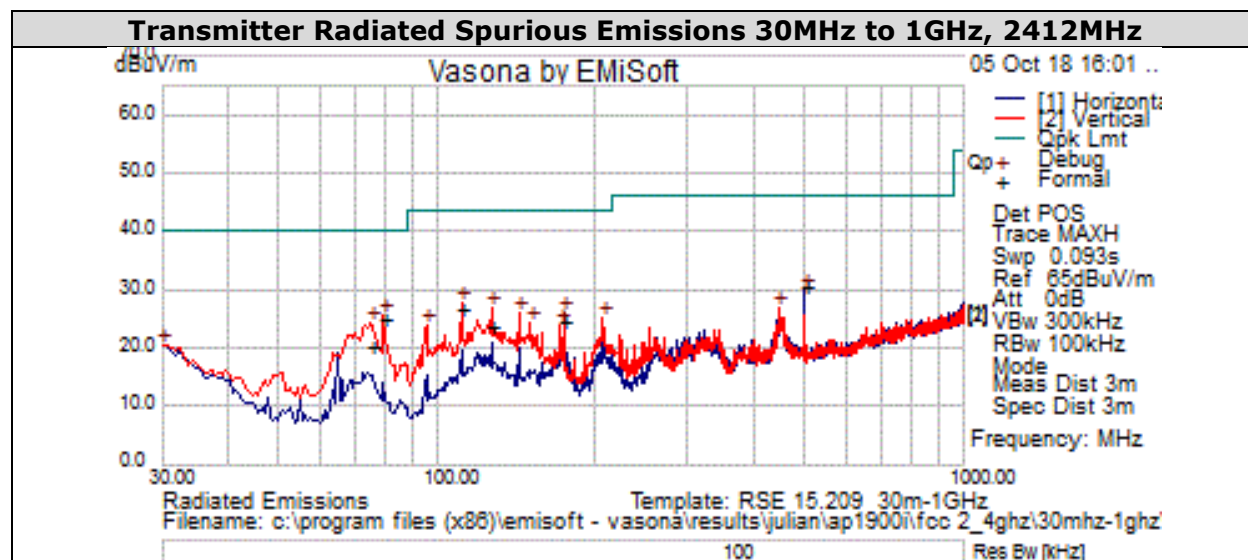
## 6.1.3 Radiated Transmitter Spurious Emissions – Test Information

| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 2             | EUT         | S03     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S04     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

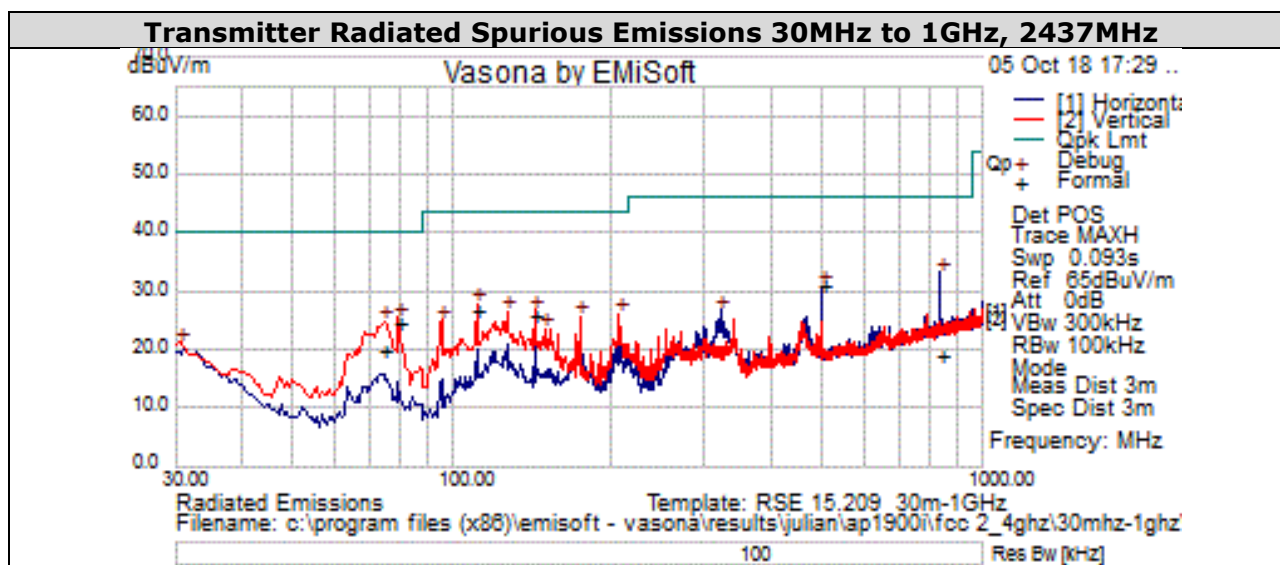
|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| <b>Tested By:</b><br>Julian Land | <b>Date of testing:</b><br>10/5/2018 – 12/11/2018 |
| <b>Test Result:</b> PASS         |                                                   |

See Appendix A for list of test equipment

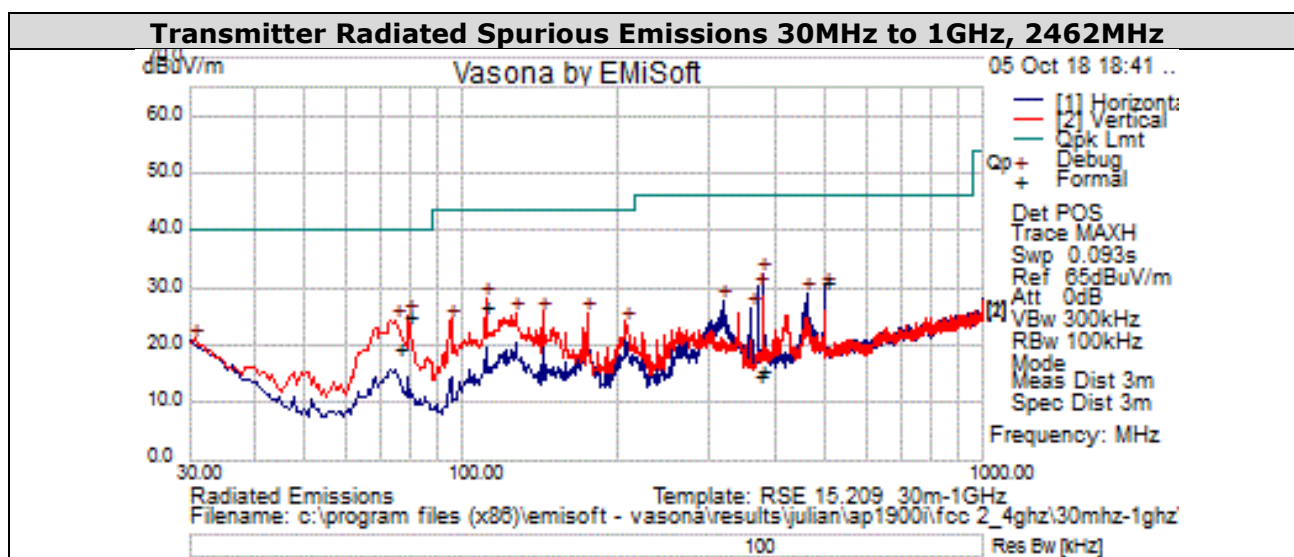
#### 6.1.4 Radiated Transmitter Spurious Emissions 30MHz-1GHz



| Frequency (MHz) | Raw (dBuV) | Cab Loss (dB) | AF (dB) | Level (dBuV) | Detector  | Polarity | Height (cm) | Azt (Deg) | Limit (dBuV) | Margin (dB) | Results Pass / Fail | Comments |
|-----------------|------------|---------------|---------|--------------|-----------|----------|-------------|-----------|--------------|-------------|---------------------|----------|
| 79.325          | 43.4       | 0.8           | -19.2   | 25.1         | Quasi Max | V        | 102         | 225       | 40           | -14.9       | Pass                |          |
| 111.056         | 39.6       | 1             | -13.8   | 26.8         | Quasi Max | V        | 105         | 216       | 43.5         | -16.7       | Pass                |          |
| 75.116          | 38.4       | 0.8           | -18.9   | 20.3         | Quasi Max | V        | 114         | 226       | 40           | -19.7       | Pass                |          |
| 500.009         | 38         | 2.2           | -9.7    | 30.5         | Quasi Max | H        | 156         | 116       | 46           | -15.5       | Pass                |          |
| 126.913         | 35.7       | 1.1           | -12.7   | 24           | Quasi Max | V        | 103         | 198       | 43.5         | -19.5       | Pass                |          |
| 174.519         | 38.7       | 1.3           | -15.1   | 24.8         | Quasi Max | V        | 102         | 136       | 43.5         | -18.7       | Pass                |          |



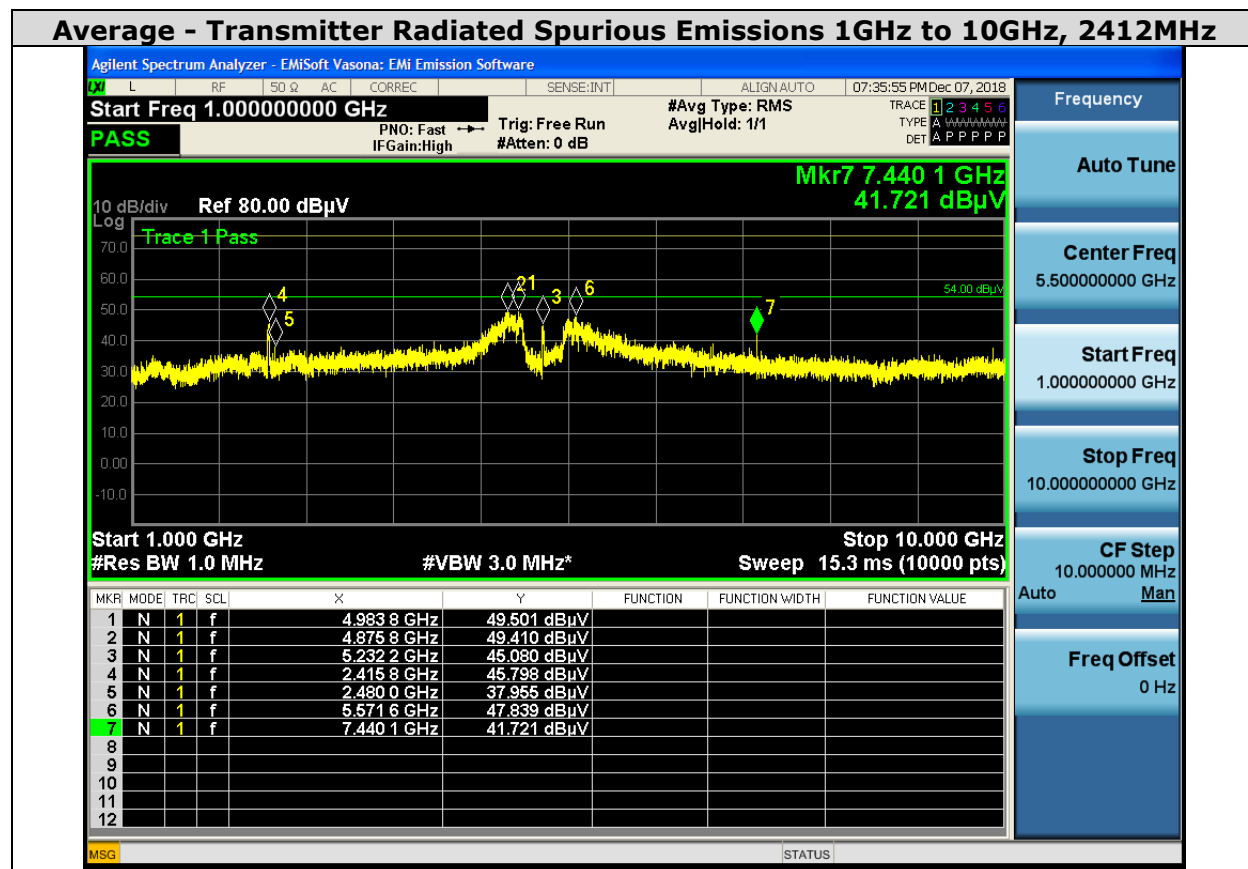
| Frequency (MHz) | Raw (dBuV) | Cab Loss (dB) | AF (dB) | Level (dBuV) | Detector  | Polarity | Height (cm) | Azt (Deg) | Limit (dBuV) | Margin (dB) | Results Pass / Fail | Comments |
|-----------------|------------|---------------|---------|--------------|-----------|----------|-------------|-----------|--------------|-------------|---------------------|----------|
| 836.313         | 21.9       | 3             | -5.7    | 19.2         | Quasi Max | H        | 168         | 186       | 46           | -26.8       | Pass                |          |
| 79.313          | 43.1       | 0.8           | -19.2   | 24.8         | Quasi Max | V        | 109         | 216       | 40           | -15.2       | Pass                |          |
| 499.994         | 38.4       | 2.2           | -9.7    | 31           | Quasi Max | H        | 159         | 109       | 46           | -15         | Pass                |          |
| 74.256          | 38         | 0.8           | -18.8   | 19.9         | Quasi Max | V        | 105         | 228       | 40           | -20.1       | Pass                |          |
| 111.056         | 39.7       | 1             | -13.8   | 26.9         | Quasi Max | V        | 102         | 202       | 43.5         | -16.6       | Pass                |          |
| 142.775         | 38.3       | 1.1           | -13.6   | 25.8         | Quasi Max | V        | 101         | 134       | 43.5         | -17.7       | Pass                |          |



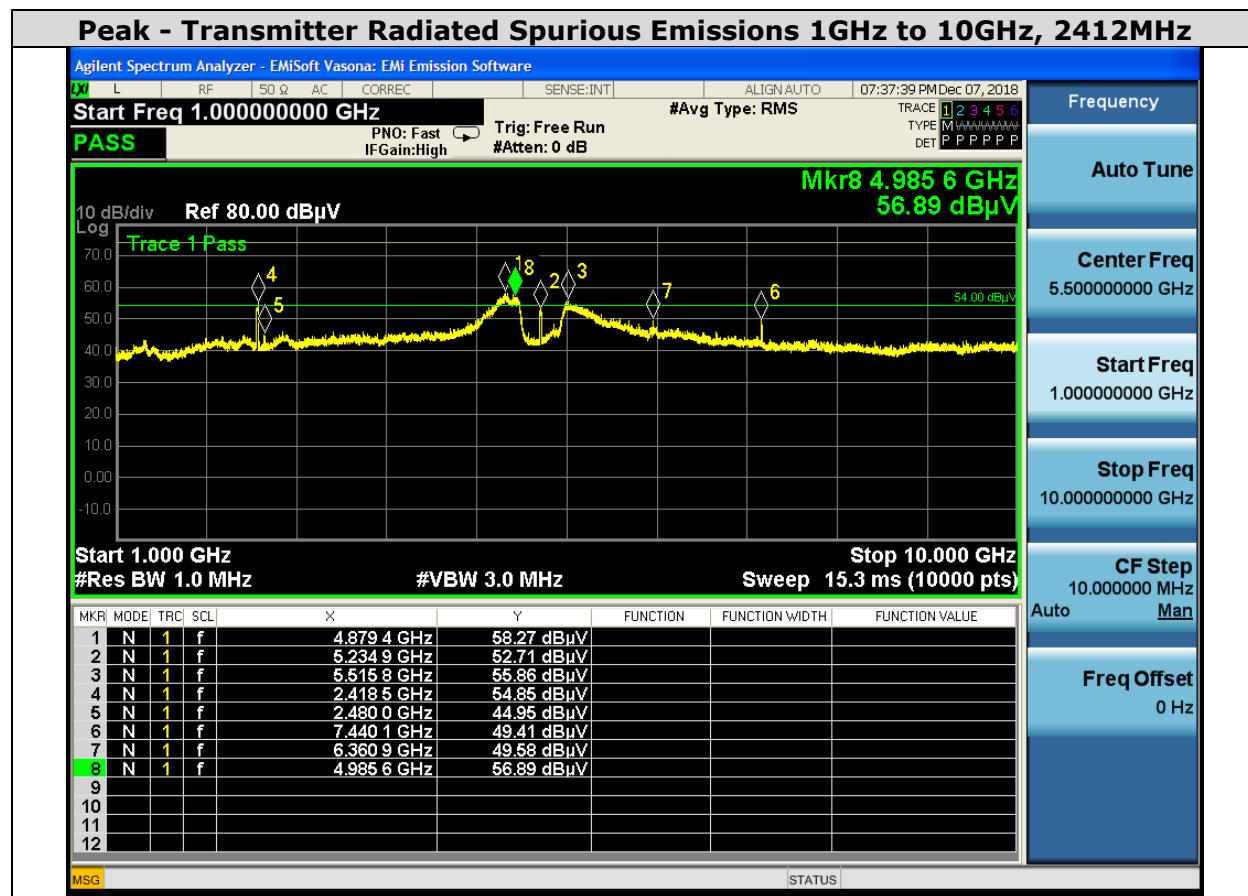
| Frequency (MHz) | Raw (dBuV) | Cab Loss (dB) | AF (dB) | Level (dBuV) | Detector  | Polarity | Height (cm) | Azt (Deg) | Limit (dBuV) | Margin (dB) | Results Pass / Fail | Comments |
|-----------------|------------|---------------|---------|--------------|-----------|----------|-------------|-----------|--------------|-------------|---------------------|----------|
| 379.806         | 25.2       | 2             | -11.6   | 15.5         | Quasi Max | V        | 149         | 316       | 46           | -30.5       | Pass                |          |
| 79.322          | 43.3       | 0.8           | -19.2   | 25           | Quasi Max | V        | 100         | 223       | 40           | -15         | Pass                |          |
| 111.056         | 39.8       | 1             | -13.8   | 27           | Quasi Max | V        | 101         | 214       | 43.5         | -16.5       | Pass                |          |
| 75.572          | 37.5       | 0.8           | -18.9   | 19.4         | Quasi Max | V        | 115         | 242       | 40           | -20.6       | Pass                |          |
| 500             | 38.5       | 2.2           | -9.7    | 31           | Quasi Max | H        | 164         | 108       | 46           | -15         | Pass                |          |
| 372.531         | 24.6       | 1.9           | -11.6   | 14.9         | Quasi Max | H        | 326         | 275       | 46           | -31.1       | Pass                |          |

### 6.1.5 Radiated Transmitter Spurious Emissions – 1-10GHz

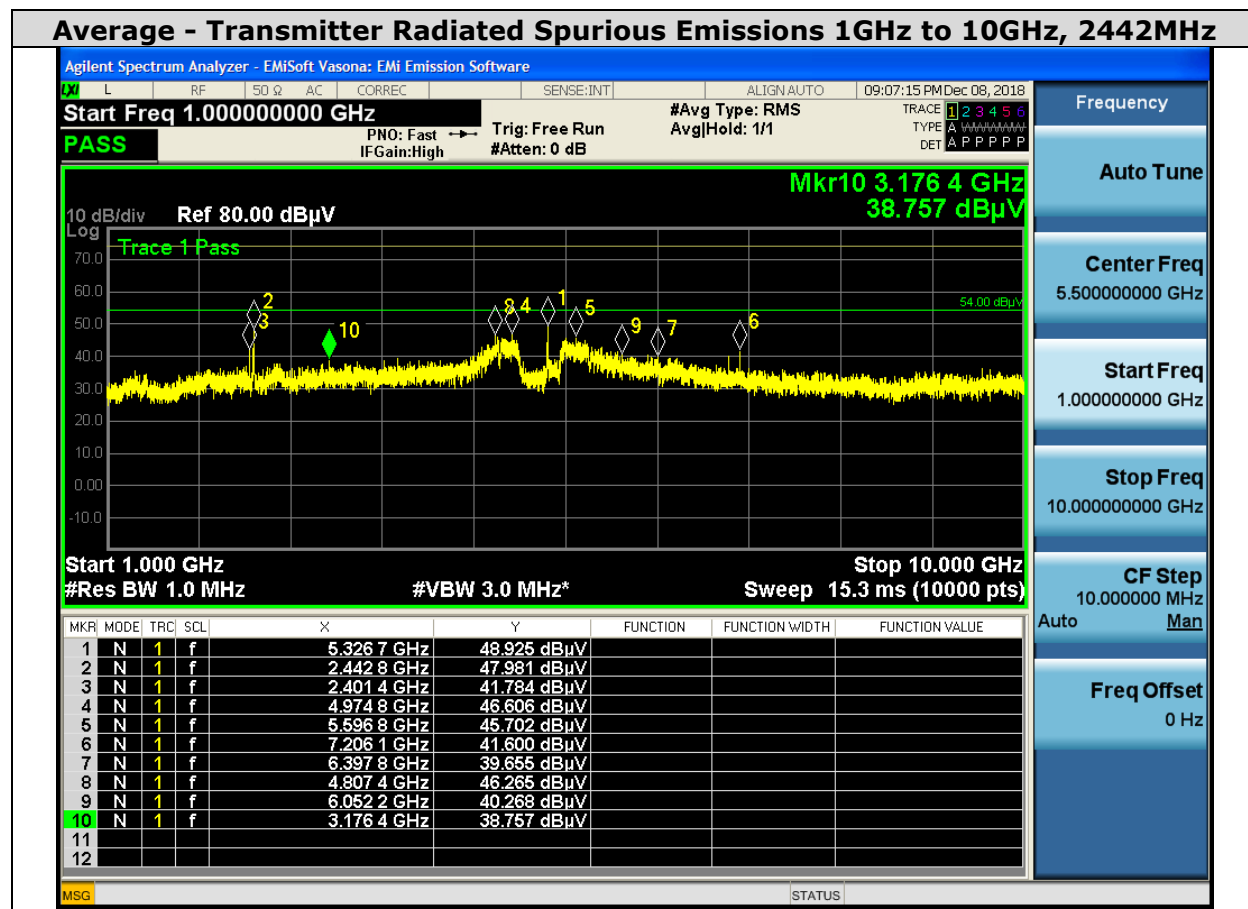
Note: Emissions tests were done with all radios on simultaneously (i.e. BLE, 2.4GHz, and 5GHz radios)



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