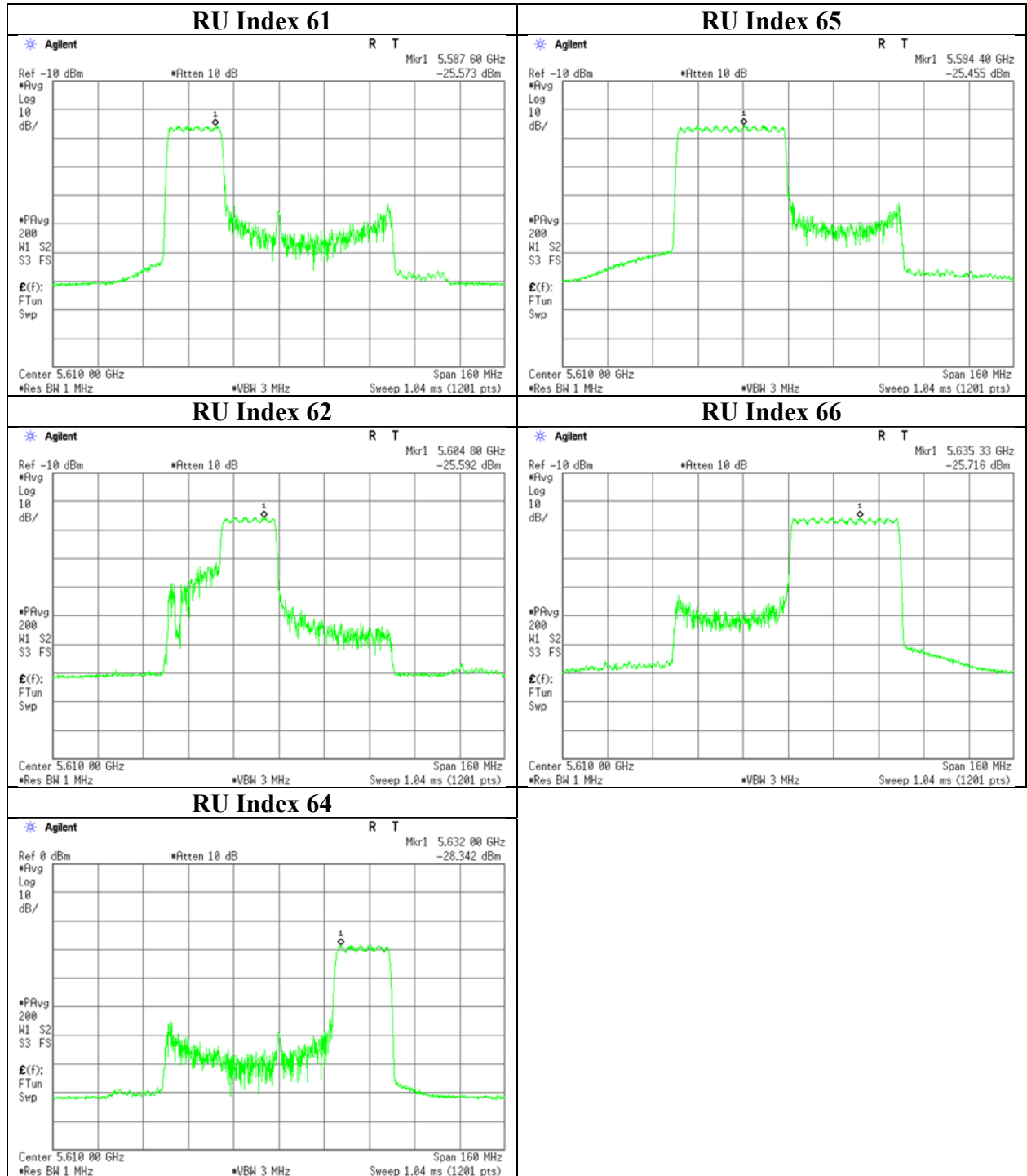


## Maximum Power Spectral Density

### 11ax-80, Antenna 3

#### 242-tone RU 5610 MHz

#### 484-tone RU 5610 MHz



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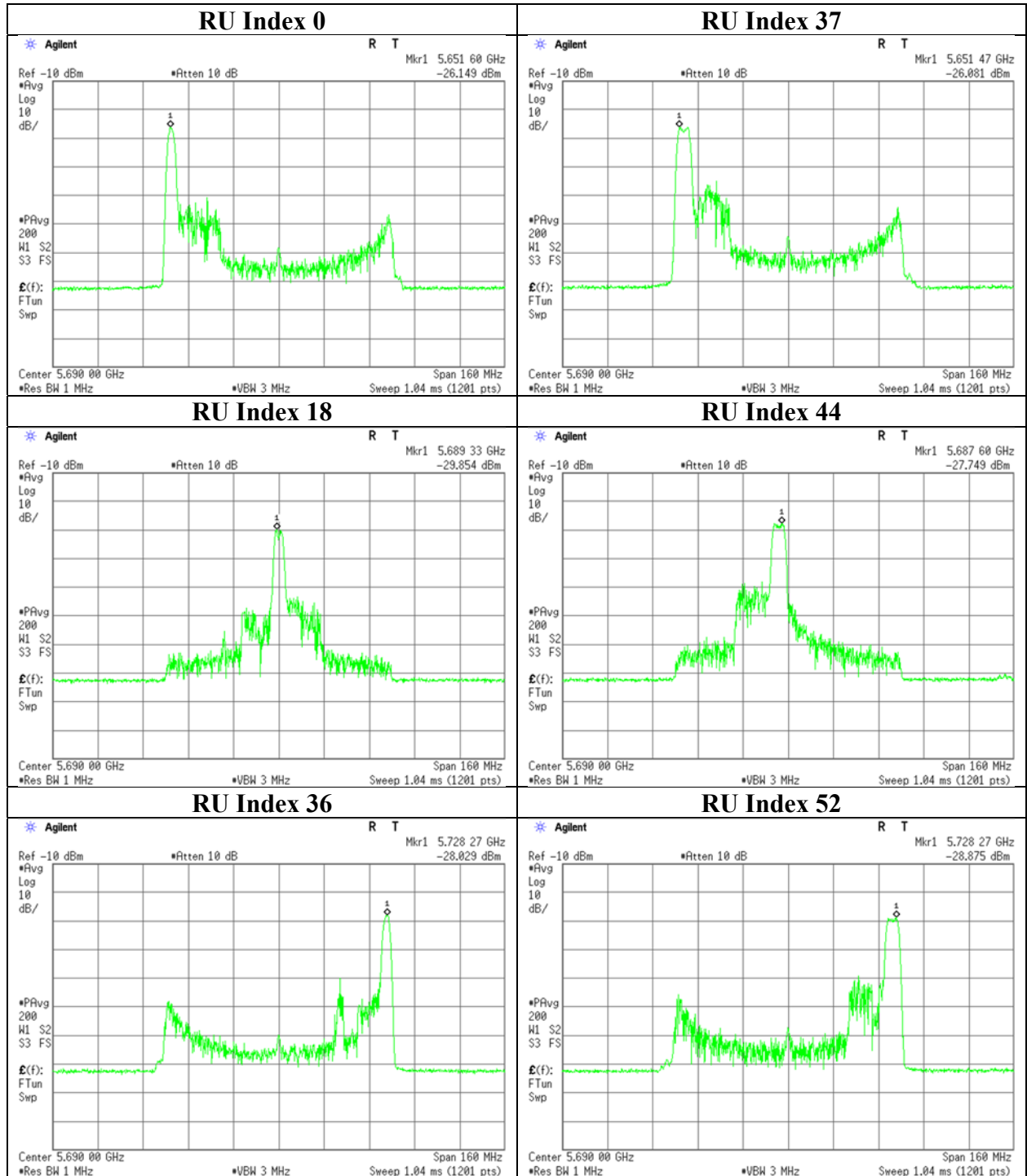
Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

### 11ax-80, Antenna 3

#### 26-tone RU 5690 MHz

#### 52-tone RU 5690 MHz



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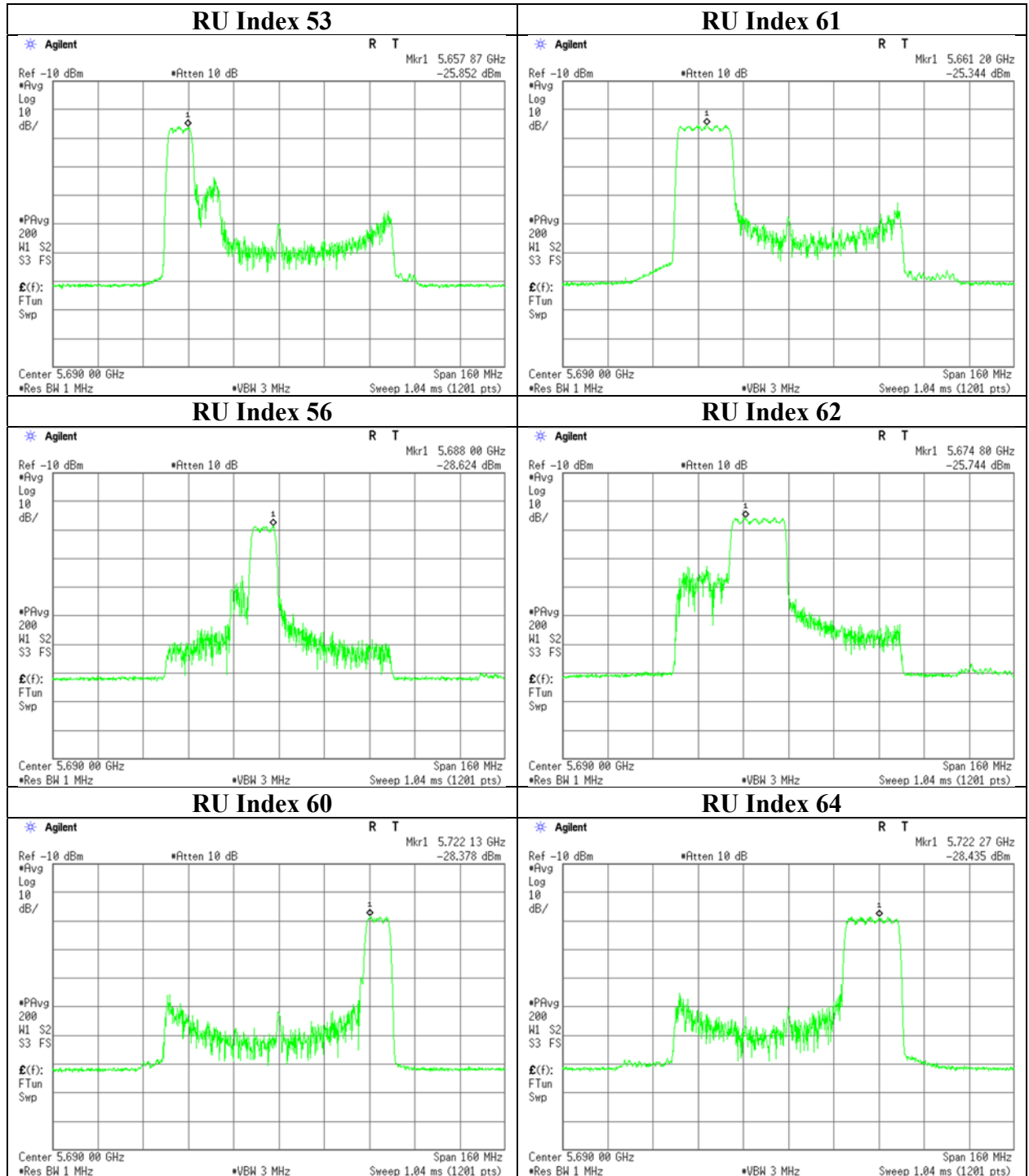
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## Maximum Power Spectral Density

### 11ax-80, Antenna 3

#### 106-tone RU 5690 MHz

#### 242-tone RU 5690 MHz



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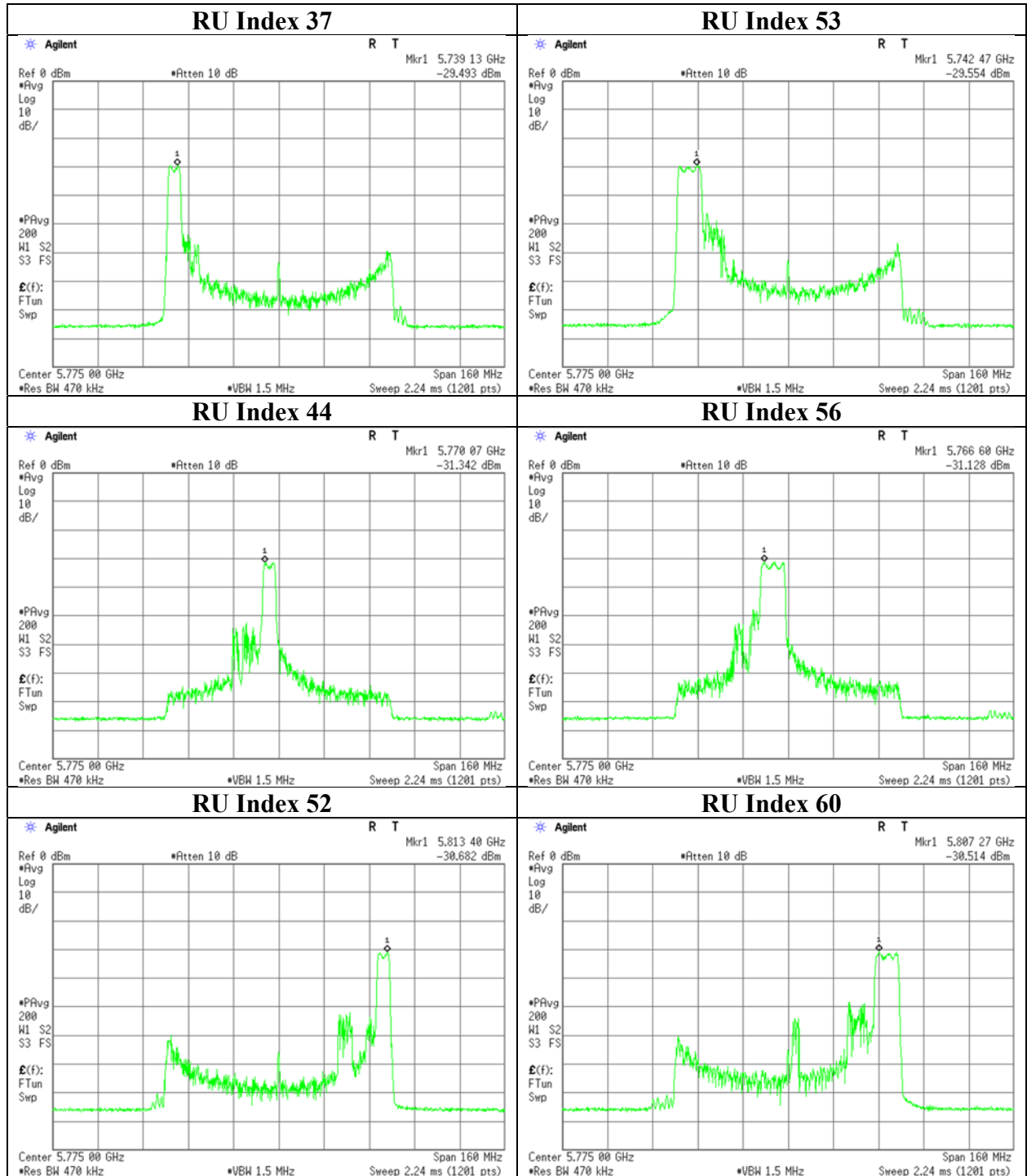


## Maximum Power Spectral Density

### 11ax-80, Antenna 3

#### 52-tone RU 5775 MHz

#### 106-tone RU 5775 MHz



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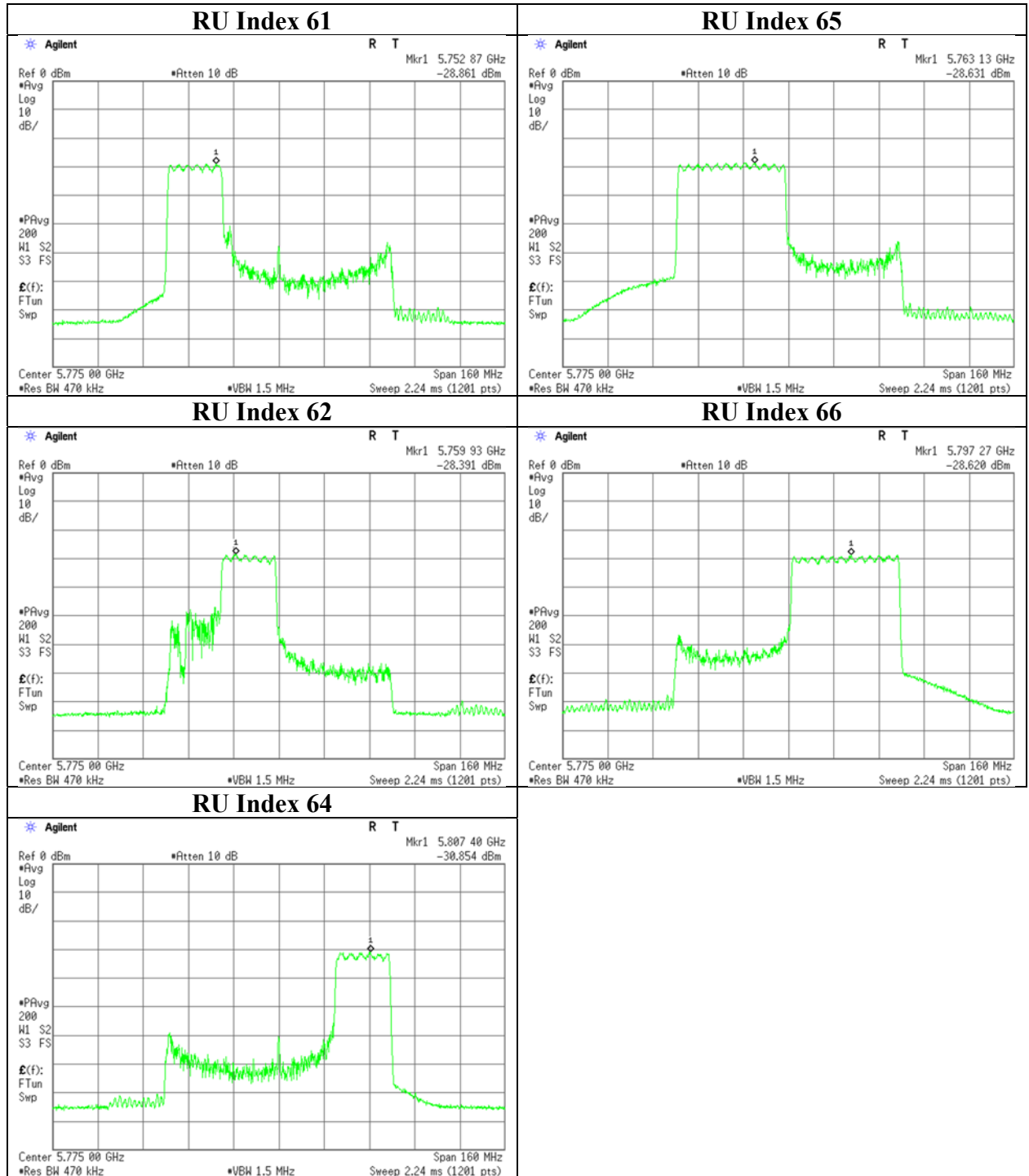
Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

### 11ax-80, Antenna 3

#### 242-tone RU 5775 MHz

#### 484-tone RU 5775 MHz



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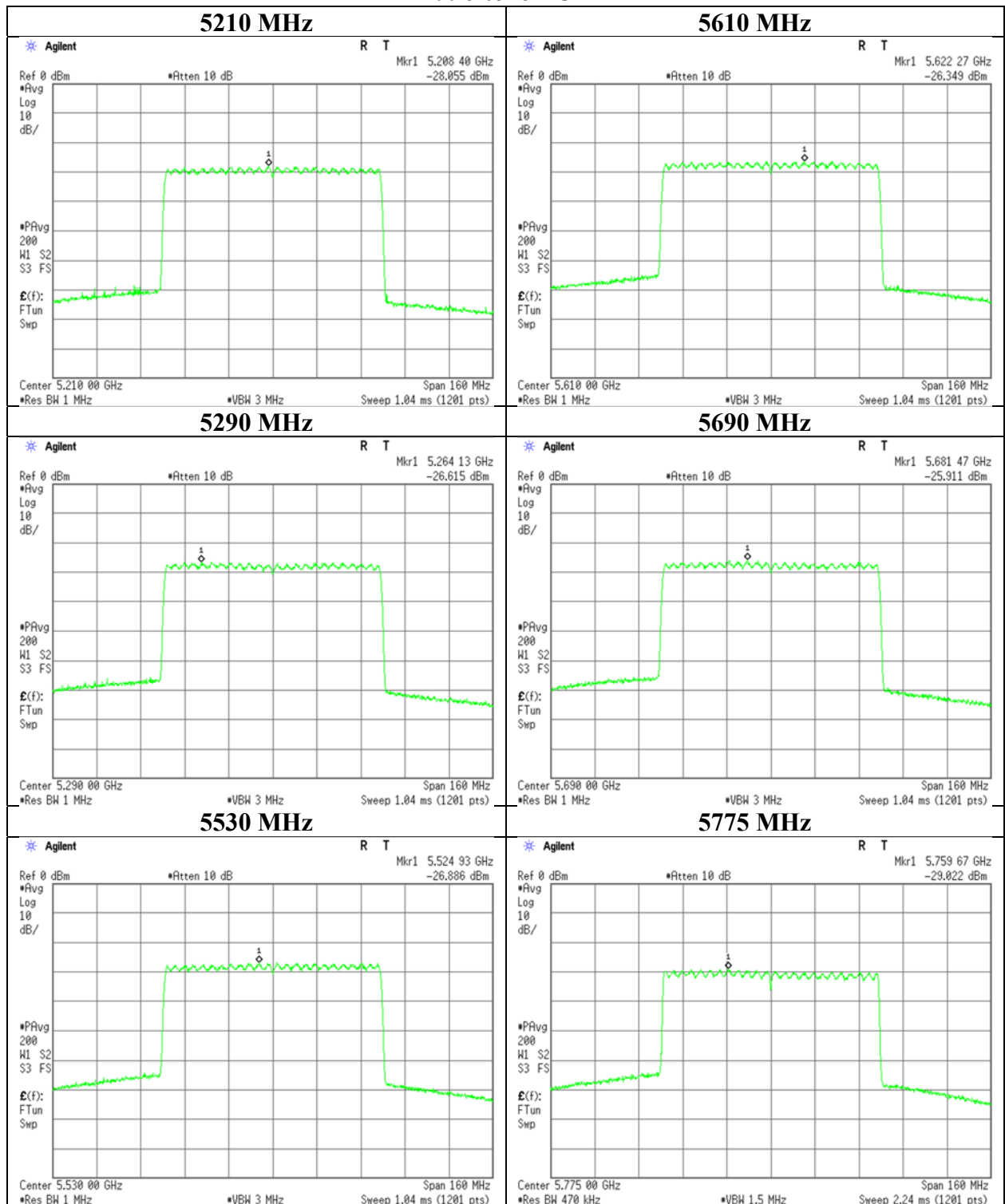
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## Maximum Power Spectral Density

### 11ax-80, Antenna 1 996-tone RU



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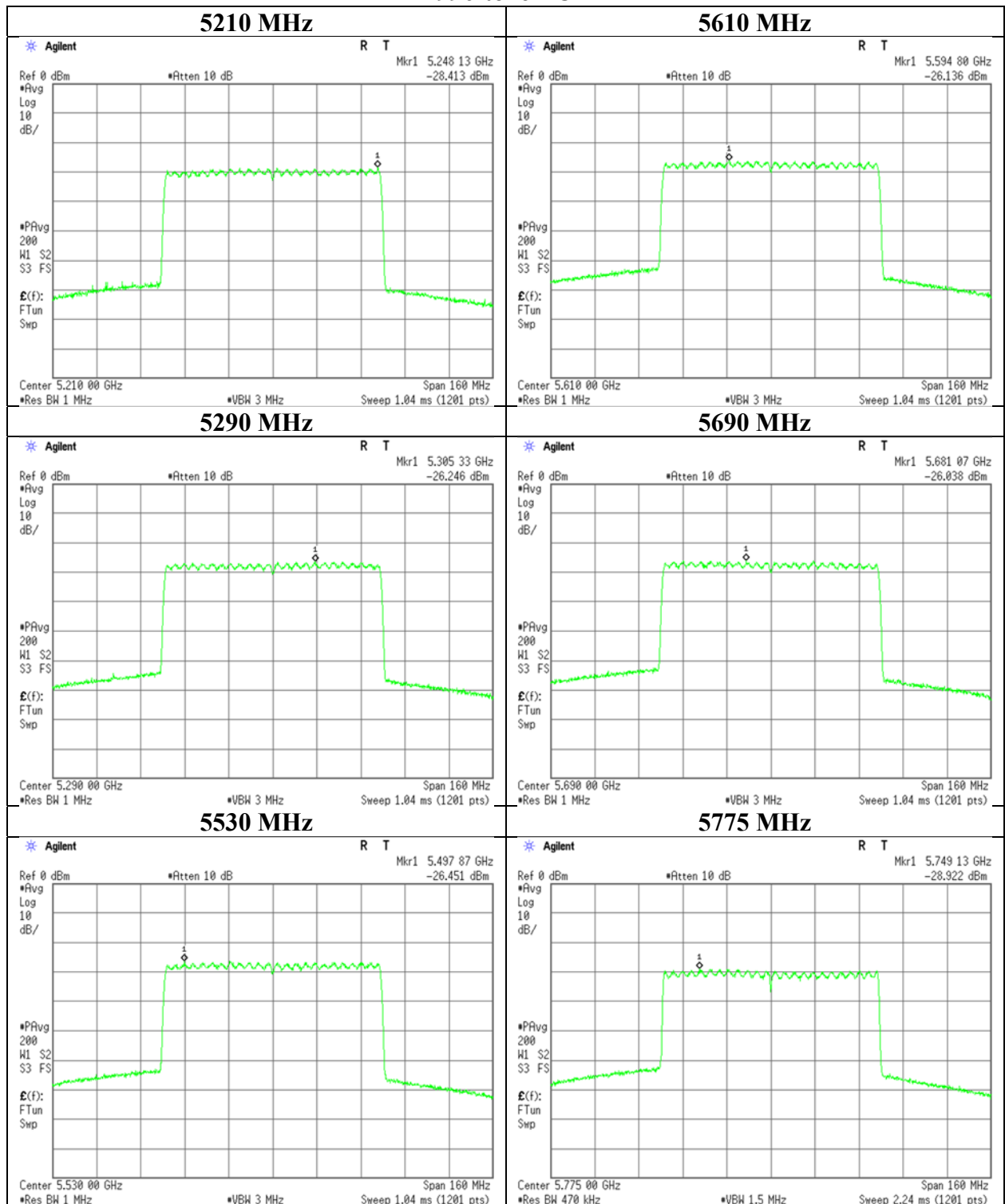
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## Maximum Power Spectral Density

### 11ax-80, Antenna 3 996-tone RU



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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5180 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5150.000           | PK       | 42.6              | 31.7               | 5.9          | 31.8         | -                   | 48.4               | 73.9              | 25.5           |             |
| Hori.    | 10360.000          | PK       | 42.3              | 40.1               | -3.1         | 33.5         | -                   | 45.8               | 68.2              | 22.4           | Floor noise |
| Hori.    | 15540.000          | PK       | 44.9              | 37.7               | -1.6         | 32.7         | -                   | 48.2               | 73.9              | 25.7           | Floor noise |
| Hori.    | 5150.000           | AV       | 33.3              | 31.7               | 5.9          | 31.8         | 0.5                 | 39.6               | 53.9              | 14.3           | *1)         |
| Hori.    | 15540.000          | AV       | 36.0              | 37.7               | -1.6         | 32.7         | -                   | 39.3               | 53.9              | 14.6           | Floor noise |
| Vert.    | 5150.000           | PK       | 42.0              | 31.7               | 5.9          | 31.8         | -                   | 47.8               | 73.9              | 26.1           |             |
| Vert.    | 10360.000          | PK       | 42.1              | 40.1               | -3.1         | 33.5         | -                   | 45.6               | 68.2              | 22.6           | Floor noise |
| Vert.    | 15540.000          | PK       | 44.6              | 37.7               | -1.6         | 32.7         | -                   | 47.9               | 73.9              | 26.0           | Floor noise |
| Vert.    | 5150.000           | AV       | 33.3              | 31.7               | 5.9          | 31.8         | 0.5                 | 39.6               | 53.9              | 14.3           | *1)         |
| Vert.    | 15540.000          | AV       | 36.0              | 37.7               | -1.6         | 32.7         | -                   | 39.3               | 53.9              | 14.6           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

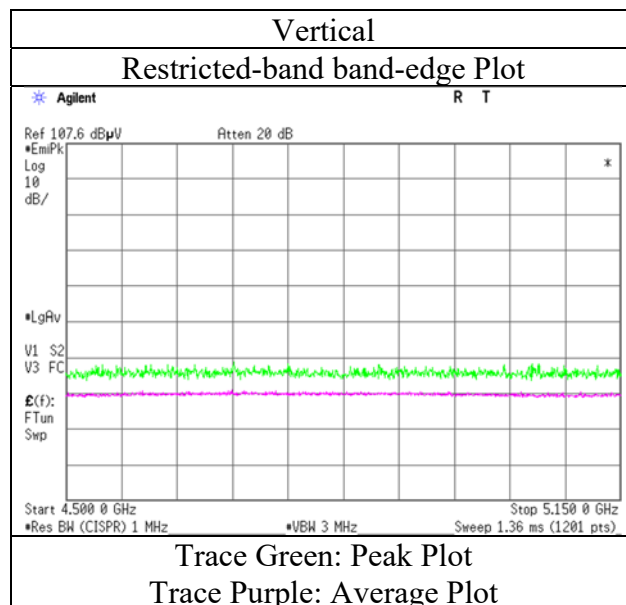
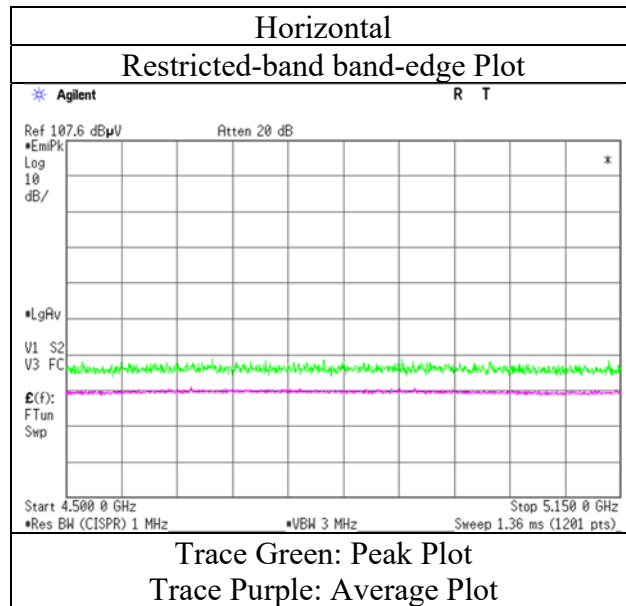
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

**Radiated Spurious Emission**  
(PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019  
Temperature / Humidity 23 deg. C / 40 % RH  
Engineer Yuta Moriya  
Mode (1 GHz - 10 GHz)  
Tx 11ax-20 5180 MHz (OFDM)



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5260 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 10520.000          | PK       | 41.5              | 40.0               | -3.0         | 33.6         | -                   | 45.0               | 68.2              | 23.2           | Floor noise |
| Hori.    | 15780.000          | PK       | 44.5              | 37.3               | -1.6         | 32.8         | -                   | 47.3               | 73.9              | 26.6           | Floor noise |
| Hori.    | 15780.000          | AV       | 35.8              | 37.3               | -1.6         | 32.8         | -                   | 38.6               | 53.9              | 15.3           | Floor noise |
| Vert.    | 10520.000          | PK       | 41.9              | 40.0               | -3.0         | 33.6         | -                   | 45.4               | 68.2              | 22.8           | Floor noise |
| Vert.    | 15780.000          | PK       | 43.8              | 37.3               | -1.6         | 32.8         | -                   | 46.6               | 73.9              | 27.3           | Floor noise |
| Vert.    | 15780.000          | AV       | 35.8              | 37.3               | -1.6         | 32.8         | -                   | 38.6               | 53.9              | 15.3           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5320 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5350.000           | PK       | 42.1              | 31.5               | 6.0          | 31.8         | -                   | 47.7               | 73.9              | 26.2           |             |
| Hori.    | 10640.000          | PK       | 43.2              | 39.9               | -2.9         | 33.6         | -                   | 46.5               | 73.9              | 27.4           | Floor noise |
| Hori.    | 15960.000          | PK       | 43.4              | 37.9               | -1.7         | 32.8         | -                   | 46.7               | 73.9              | 27.2           | Floor noise |
| Hori.    | 5350.000           | AV       | 34.1              | 31.5               | 6.0          | 31.8         | 0.5                 | 40.2               | 53.9              | 13.7           | *1)         |
| Hori.    | 10640.000          | AV       | 33.7              | 39.9               | -2.9         | 33.6         | -                   | 37.1               | 53.9              | 16.8           | Floor noise |
| Hori.    | 15960.000          | AV       | 35.0              | 37.9               | -1.7         | 32.8         | -                   | 38.3               | 53.9              | 15.6           | Floor noise |
| Vert.    | 5350.000           | PK       | 43.9              | 31.5               | 6.0          | 31.8         | -                   | 49.5               | 73.9              | 24.4           |             |
| Vert.    | 10640.000          | PK       | 42.9              | 39.9               | -2.9         | 33.6         | -                   | 46.3               | 73.9              | 27.6           | Floor noise |
| Vert.    | 15960.000          | PK       | 43.8              | 37.9               | -1.7         | 32.8         | -                   | 47.1               | 73.9              | 26.8           | Floor noise |
| Vert.    | 5350.000           | AV       | 34.7              | 31.5               | 6.0          | 31.8         | 0.5                 | 40.8               | 53.9              | 13.1           | *1)         |
| Vert.    | 10640.000          | AV       | 33.7              | 39.9               | -2.9         | 33.6         | -                   | 37.1               | 53.9              | 16.8           | Floor noise |
| Vert.    | 15960.000          | AV       | 35.0              | 37.9               | -1.7         | 32.8         | -                   | 38.3               | 53.9              | 15.6           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

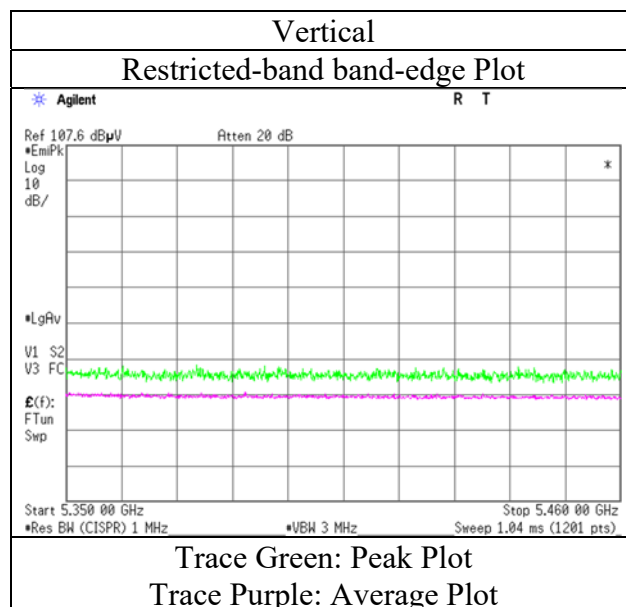
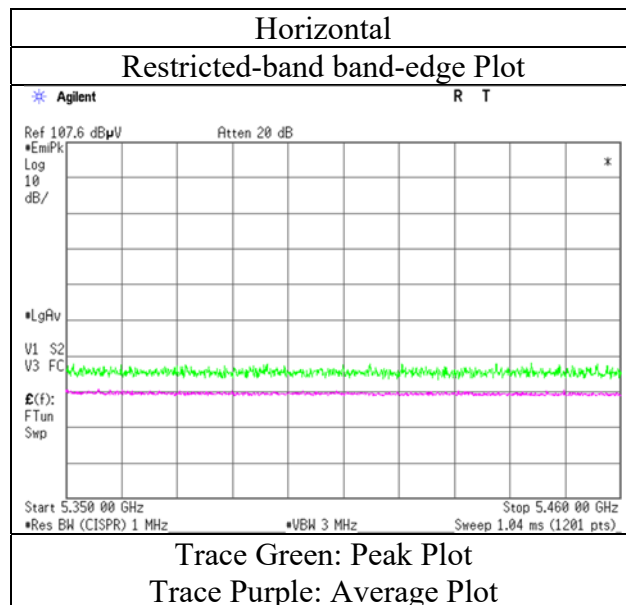
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission (Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 20, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-20 5320 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5500 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5460.000           | PK       | 41.4              | 31.7               | 6.0          | 31.9         | -                   | 47.2               | 68.2              | 21.0           |             |
| Hori.    | 5470.000           | PK       | 43.9              | 31.7               | 6.0          | 31.9         | -                   | 49.8               | 68.2              | 18.5           |             |
| Hori.    | 11000.000          | PK       | 42.5              | 40.2               | -2.7         | 33.6         | -                   | 46.4               | 73.9              | 27.5           | Floor noise |
| Hori.    | 16500.000          | PK       | 44.2              | 39.6               | -1.6         | 32.7         | -                   | 49.6               | 68.2              | 18.6           | Floor noise |
| Hori.    | 5460.000           | AV       | 32.9              | 31.7               | 6.0          | 31.9         | 0.5                 | 39.3               | 53.9              | 14.6           | *1)         |
| Hori.    | 11000.000          | AV       | 33.9              | 40.2               | -2.7         | 33.6         | -                   | 37.8               | 53.9              | 16.1           | Floor noise |
| Vert.    | 5460.000           | PK       | 42.0              | 31.7               | 6.0          | 31.9         | -                   | 47.9               | 68.2              | 20.4           |             |
| Vert.    | 5470.000           | PK       | 42.5              | 31.7               | 6.0          | 31.9         | -                   | 48.3               | 68.2              | 19.9           |             |
| Vert.    | 11000.000          | PK       | 42.5              | 40.2               | -2.7         | 33.6         | -                   | 46.3               | 73.9              | 27.6           | Floor noise |
| Vert.    | 16500.000          | PK       | 44.2              | 39.6               | -1.6         | 32.7         | -                   | 49.5               | 68.2              | 18.7           | Floor noise |
| Vert.    | 5460.000           | AV       | 33.4              | 31.7               | 6.0          | 31.9         | 0.5                 | 39.7               | 53.9              | 14.2           | *1)         |
| Vert.    | 11000.000          | AV       | 33.9              | 40.2               | -2.7         | 33.6         | -                   | 37.8               | 53.9              | 16.1           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

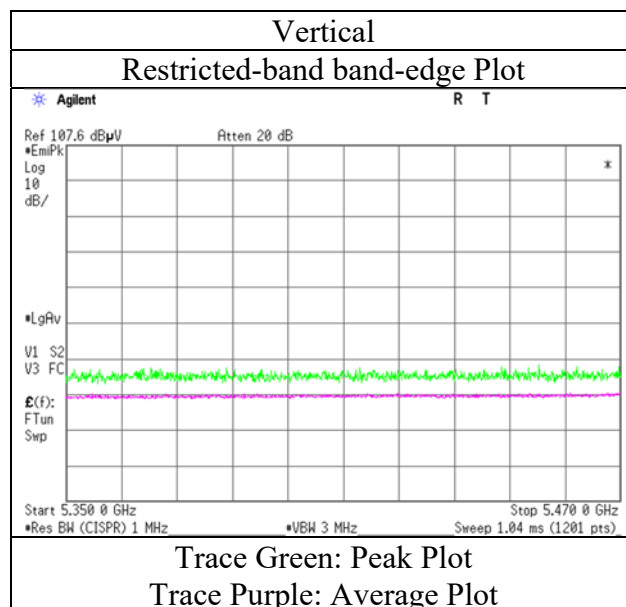
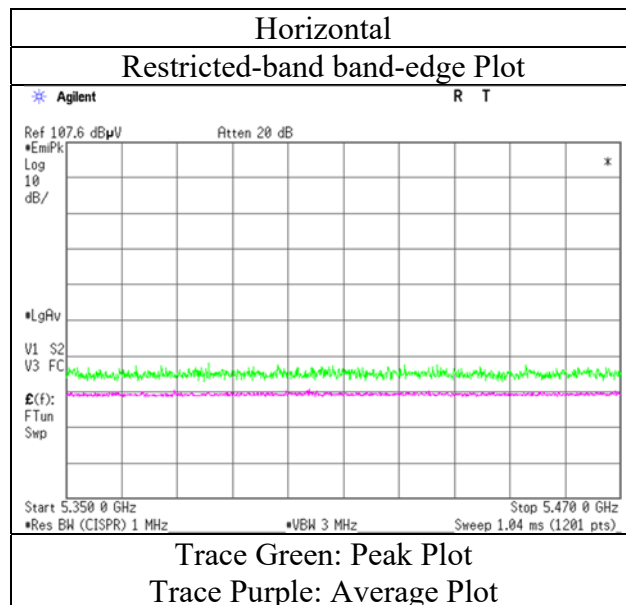
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 20, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-20 5500 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5580 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 11160.000          | PK       | 42.8              | 39.8               | -2.7         | 33.6         | -                   | 46.3               | 73.9              | 27.6           | Floor noise |
| Hori.    | 16740.000          | PK       | 44.8              | 41.1               | -1.5         | 32.7         | -                   | 51.8               | 68.2              | 16.4           | Floor noise |
| Hori.    | 11160.000          | AV       | 34.2              | 39.8               | -2.7         | 33.6         | -                   | 37.7               | 53.9              | 16.2           | Floor noise |
| Vert.    | 11160.000          | PK       | 42.5              | 39.8               | -2.7         | 33.6         | -                   | 46.0               | 73.9              | 27.9           | Floor noise |
| Vert.    | 16740.000          | PK       | 44.4              | 41.1               | -1.5         | 32.7         | -                   | 51.3               | 68.2              | 16.9           | Floor noise |
| Vert.    | 11160.000          | AV       | 34.2              | 39.8               | -2.7         | 33.6         | -                   | 37.7               | 53.9              | 16.2           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5700 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5725.000           | PK       | 45.1              | 32.0               | 6.1          | 31.9         | -                   | 51.3               | 68.2              | 16.9           |             |
| Hori.    | 11400.000          | PK       | 41.8              | 39.9               | -2.5         | 33.6         | -                   | 45.6               | 73.9              | 28.3           | Floor noise |
| Hori.    | 17100.000          | PK       | 44.9              | 42.3               | -1.4         | 32.6         | -                   | 53.1               | 68.2              | 15.1           | Floor noise |
| Hori.    | 11400.000          | AV       | 34.1              | 39.9               | -2.5         | 33.6         | -                   | 37.9               | 53.9              | 16.0           | Floor noise |
| Vert.    | 5725.000           | PK       | 46.4              | 32.0               | 6.1          | 31.9         | -                   | 52.6               | 68.2              | 15.6           |             |
| Vert.    | 11400.000          | PK       | 42.1              | 39.9               | -2.5         | 33.6         | -                   | 45.9               | 73.9              | 28.0           | Floor noise |
| Vert.    | 17100.000          | PK       | 44.5              | 42.3               | -1.4         | 32.6         | -                   | 52.8               | 68.2              | 15.4           | Floor noise |
| Vert.    | 11400.000          | AV       | 34.1              | 39.9               | -2.5         | 33.6         | -                   | 37.9               | 53.9              | 16.0           | Floor noise |

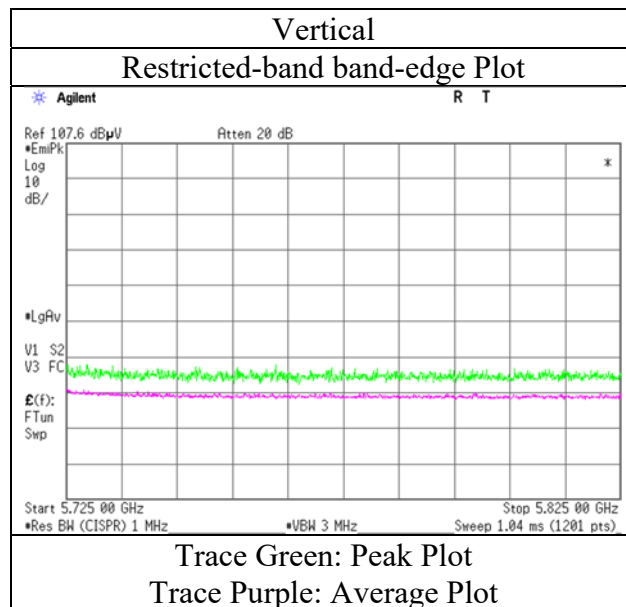
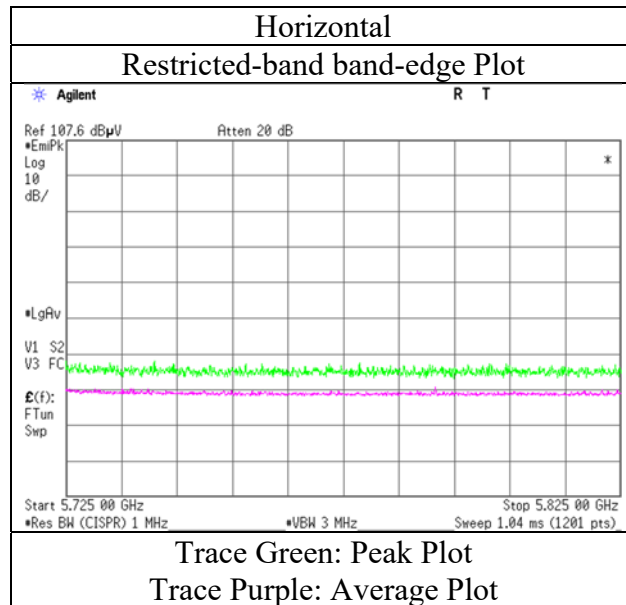
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 20, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-20 5700 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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**Ise EMC Lab.**

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5745 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5650.000           | PK       | 40.4              | 31.8               | 6.1          | 31.9         | -                   | 46.3               | 68.2              | 21.9           |             |
| Hori.    | 5700.000           | PK       | 40.9              | 31.9               | 6.1          | 31.9         | -                   | 47.0               | 105.2             | 58.3           |             |
| Hori.    | 5720.000           | PK       | 45.6              | 32.0               | 6.1          | 31.9         | -                   | 51.7               | 110.8             | 59.1           |             |
| Hori.    | 5725.000           | PK       | 51.0              | 32.0               | 6.1          | 31.9         | -                   | 57.2               | 122.2             | 65.0           |             |
| Hori.    | 11490.000          | PK       | 42.8              | 39.7               | -2.5         | 33.5         | -                   | 46.5               | 73.9              | 27.4           | Floor noise |
| Hori.    | 17235.000          | PK       | 43.9              | 42.7               | -1.4         | 32.6         | -                   | 52.6               | 68.2              | 15.6           | Floor noise |
| Hori.    | 11490.000          | AV       | 33.8              | 39.7               | -2.5         | 33.5         | -                   | 37.4               | 53.9              | 16.5           | Floor noise |
| Vert.    | 5650.000           | PK       | 41.9              | 31.8               | 6.1          | 31.9         | -                   | 47.9               | 68.2              | 20.3           |             |
| Vert.    | 5700.000           | PK       | 41.9              | 31.9               | 6.1          | 31.9         | -                   | 48.0               | 105.2             | 57.2           |             |
| Vert.    | 5720.000           | PK       | 47.6              | 32.0               | 6.1          | 31.9         | -                   | 53.8               | 110.8             | 57.0           |             |
| Vert.    | 5725.000           | PK       | 54.4              | 32.0               | 6.1          | 31.9         | -                   | 60.6               | 122.2             | 61.6           |             |
| Vert.    | 11490.000          | PK       | 43.1              | 39.7               | -2.5         | 33.5         | -                   | 46.8               | 73.9              | 27.1           | Floor noise |
| Vert.    | 17235.000          | PK       | 43.9              | 42.7               | -1.4         | 32.6         | -                   | 52.6               | 68.2              | 15.6           | Floor noise |
| Vert.    | 11490.000          | AV       | 33.8              | 39.7               | -2.5         | 33.5         | -                   | 37.4               | 53.9              | 16.5           | Floor noise |

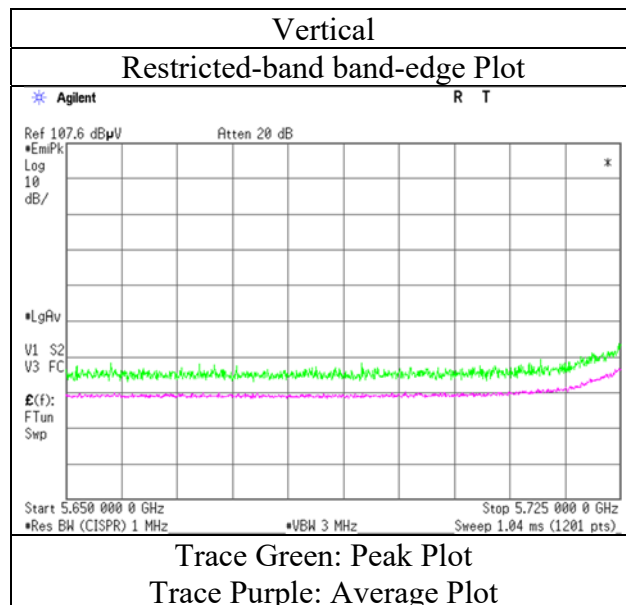
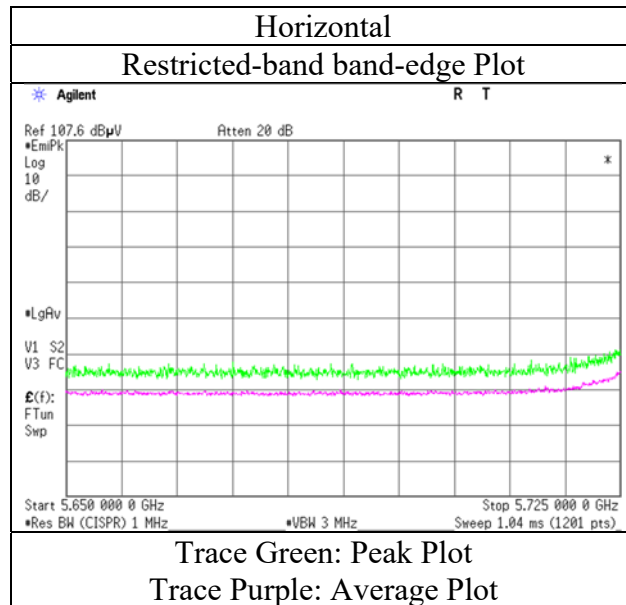
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB  
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 20, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-20 5745 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5785 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 11570.000          | PK       | 41.9              | 39.5               | -2.4         | 33.5         | -                   | 45.5               | 73.9              | 28.4           | Floor noise |
| Hori.    | 17355.000          | PK       | 43.7              | 44.0               | -1.3         | 32.6         | -                   | 53.7               | 68.2              | 14.5           | Floor noise |
| Hori.    | 11570.000          | AV       | 34.0              | 39.5               | -2.4         | 33.5         | -                   | 37.6               | 53.9              | 16.3           | Floor noise |
| Vert.    | 11570.000          | PK       | 42.3              | 39.5               | -2.4         | 33.5         | -                   | 45.9               | 73.9              | 28.0           | Floor noise |
| Vert.    | 17355.000          | PK       | 43.5              | 44.0               | -1.3         | 32.6         | -                   | 53.5               | 68.2              | 14.7           | Floor noise |
| Vert.    | 11570.000          | AV       | 34.0              | 39.5               | -2.4         | 33.5         | -                   | 37.6               | 53.9              | 16.3           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-20 5825 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori.    | 5850.000        | PK       | 46.2           | 32.2            | 6.1       | 31.9      | -                | 52.6            | 122.2          | 69.6        |             |
| Hori.    | 5855.000        | PK       | 42.4           | 32.2            | 6.1       | 31.9      | -                | 48.9            | 110.8          | 62.0        |             |
| Hori.    | 5875.000        | PK       | 41.1           | 32.3            | 6.2       | 31.9      | -                | 47.6            | 105.2          | 57.6        |             |
| Hori.    | 5925.000        | PK       | 40.9           | 32.3            | 6.2       | 31.9      | -                | 47.5            | 68.2           | 20.8        |             |
| Hori.    | 11650.000       | PK       | 42.4           | 39.2            | -2.4      | 33.5      | -                | 45.7            | 73.9           | 28.2        | Floor noise |
| Hori.    | 17475.000       | PK       | 43.4           | 44.7            | -1.3      | 32.6      | -                | 54.2            | 68.2           | 14.0        | Floor noise |
| Hori.    | 11650.000       | AV       | 34.2           | 39.2            | -2.4      | 33.5      | -                | 37.5            | 53.9           | 16.4        | Floor noise |
| Vert.    | 5850.000        | PK       | 47.4           | 32.2            | 6.1       | 31.9      | -                | 53.9            | 122.2          | 68.3        |             |
| Vert.    | 5855.000        | PK       | 43.6           | 32.2            | 6.1       | 31.9      | -                | 50.1            | 110.8          | 60.7        |             |
| Vert.    | 5875.000        | PK       | 40.9           | 32.3            | 6.2       | 31.9      | -                | 47.4            | 105.2          | 57.8        |             |
| Vert.    | 5925.000        | PK       | 40.7           | 32.3            | 6.2       | 31.9      | -                | 47.2            | 68.2           | 21.0        |             |
| Vert.    | 11650.000       | PK       | 43.0           | 39.2            | -2.4      | 33.5      | -                | 46.3            | 73.9           | 27.6        | Floor noise |
| Vert.    | 17475.000       | PK       | 43.2           | 44.7            | -1.3      | 32.6      | -                | 54.0            | 68.2           | 14.2        | Floor noise |
| Vert.    | 11650.000       | AV       | 34.2           | 39.2            | -2.4      | 33.5      | -                | 37.5            | 53.9           | 16.4        | Floor noise |

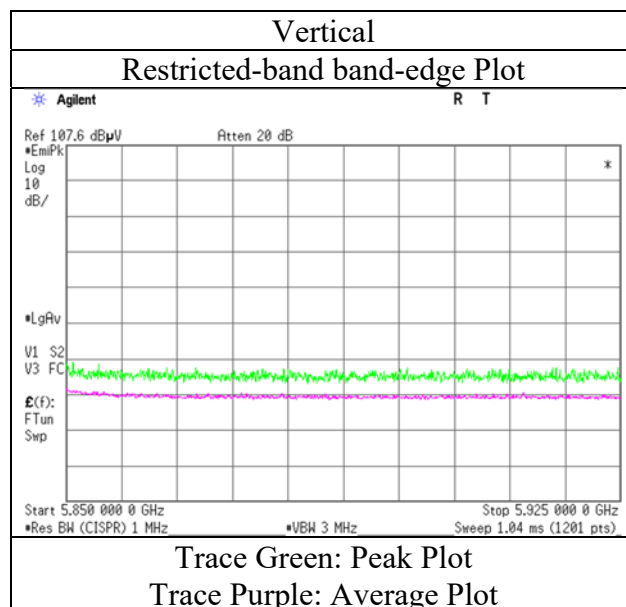
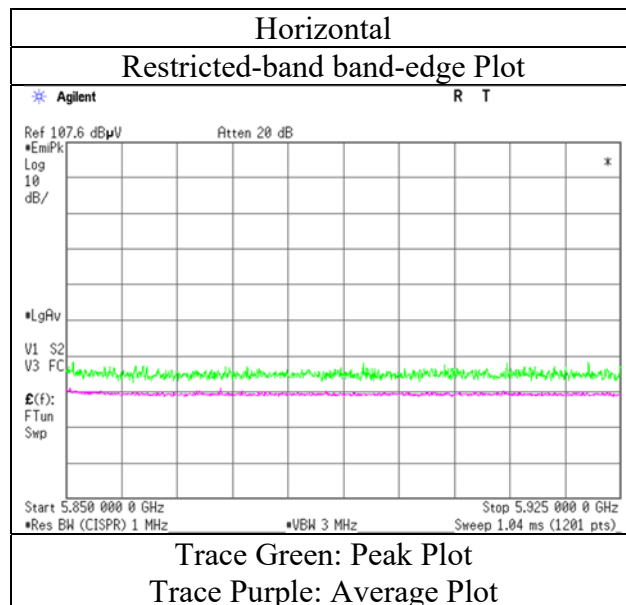
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB  
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 20, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-20 5825 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-40 5190 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5150.000           | PK       | 43.1              | 31.7               | 5.9          | 31.8         | -                   | 48.9               | 73.9              | 25.1           |             |
| Hori.    | 10380.000          | PK       | 42.5              | 40.1               | -3.1         | 33.5         | -                   | 46.0               | 68.2              | 22.2           | Floor noise |
| Hori.    | 15570.000          | PK       | 44.9              | 37.5               | -1.6         | 32.8         | -                   | 48.0               | 73.9              | 25.9           | Floor noise |
| Hori.    | 5150.000           | AV       | 34.2              | 31.7               | 5.9          | 31.8         | 0.8                 | 40.7               | 53.9              | 13.2           | *1)         |
| Hori.    | 15570.000          | AV       | 35.9              | 37.5               | -1.6         | 32.8         | -                   | 39.0               | 53.9              | 14.9           | Floor noise |
| Vert.    | 5150.000           | PK       | 43.4              | 31.7               | 5.9          | 31.8         | -                   | 49.2               | 73.9              | 24.7           |             |
| Vert.    | 10380.000          | PK       | 42.5              | 40.1               | -3.1         | 33.5         | -                   | 45.9               | 68.2              | 22.3           | Floor noise |
| Vert.    | 15570.000          | PK       | 44.1              | 37.5               | -1.6         | 32.8         | -                   | 47.2               | 73.9              | 26.8           | Floor noise |
| Vert.    | 5150.000           | AV       | 34.3              | 31.7               | 5.9          | 31.8         | 0.8                 | 40.9               | 53.9              | 13.0           | *1)         |
| Vert.    | 15570.000          | AV       | 35.9              | 37.5               | -1.6         | 32.8         | -                   | 39.0               | 53.9              | 14.9           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

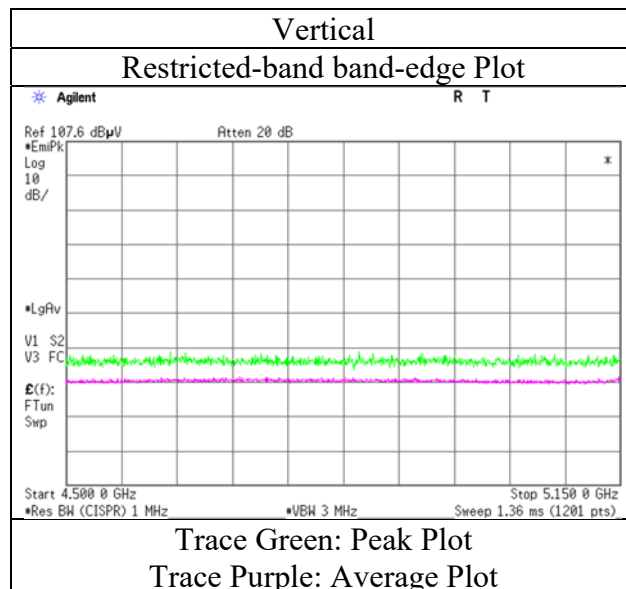
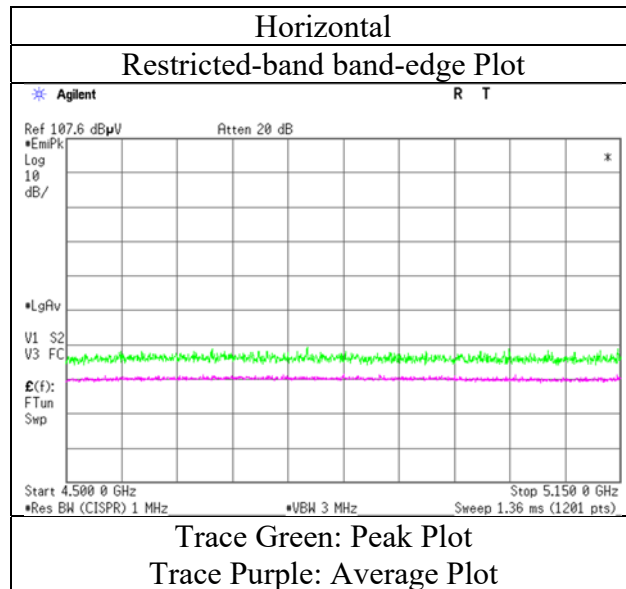
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 20, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-40 5190 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-40 5270 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 10540.000          | PK       | 42.2              | 40.0               | -3.0         | 33.6         | -                   | 45.7               | 68.2              | 22.5           | Floor noise |
| Hori.    | 15810.000          | PK       | 43.7              | 37.1               | -1.7         | 32.8         | -                   | 46.3               | 73.9              | 27.6           | Floor noise |
| Hori.    | 15810.000          | AV       | 35.2              | 37.1               | -1.7         | 32.8         | -                   | 37.8               | 53.9              | 16.1           | Floor noise |
| Vert.    | 10540.000          | PK       | 43.0              | 40.0               | -3.0         | 33.6         | -                   | 46.5               | 68.2              | 21.8           | Floor noise |
| Vert.    | 15810.000          | PK       | 43.7              | 37.1               | -1.7         | 32.8         | -                   | 46.4               | 73.9              | 27.5           | Floor noise |
| Vert.    | 15810.000          | AV       | 35.2              | 37.1               | -1.7         | 32.8         | -                   | 37.8               | 53.9              | 16.1           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 20, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-40 5310 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5350.000           | PK       | 48.4              | 31.5               | 6.0          | 31.8         | -                   | 54.0               | 73.9              | 19.9           |             |
| Hori.    | 10620.000          | PK       | 41.8              | 39.8               | -2.9         | 33.6         | -                   | 45.1               | 73.9              | 28.8           | Floor noise |
| Hori.    | 15930.000          | PK       | 43.4              | 37.6               | -1.7         | 32.8         | -                   | 46.6               | 73.9              | 27.4           | Floor noise |
| Hori.    | 5350.000           | AV       | 37.9              | 31.5               | 6.0          | 31.8         | 0.8                 | 44.2               | 53.9              | 9.7            | *1)         |
| Hori.    | 10620.000          | AV       | 33.7              | 39.8               | -2.9         | 33.6         | -                   | 37.0               | 53.9              | 17.0           | Floor noise |
| Hori.    | 15930.000          | AV       | 35.0              | 37.6               | -1.7         | 32.8         | -                   | 38.2               | 53.9              | 15.8           | Floor noise |
| Vert.    | 5350.000           | PK       | 50.0              | 31.5               | 6.0          | 31.8         | -                   | 55.6               | 73.9              | 18.3           |             |
| Vert.    | 10620.000          | PK       | 42.2              | 39.8               | -2.9         | 33.6         | -                   | 45.4               | 73.9              | 28.5           | Floor noise |
| Vert.    | 15930.000          | PK       | 43.4              | 37.6               | -1.7         | 32.8         | -                   | 46.6               | 73.9              | 27.4           | Floor noise |
| Vert.    | 5350.000           | AV       | 39.4              | 31.5               | 6.0          | 31.8         | 0.8                 | 45.7               | 53.9              | 8.2            | *1)         |
| Vert.    | 10620.000          | AV       | 33.7              | 39.8               | -2.9         | 33.6         | -                   | 37.0               | 53.9              | 17.0           | Floor noise |
| Vert.    | 15930.000          | AV       | 35.0              | 37.6               | -1.7         | 32.8         | -                   | 38.2               | 53.9              | 15.8           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

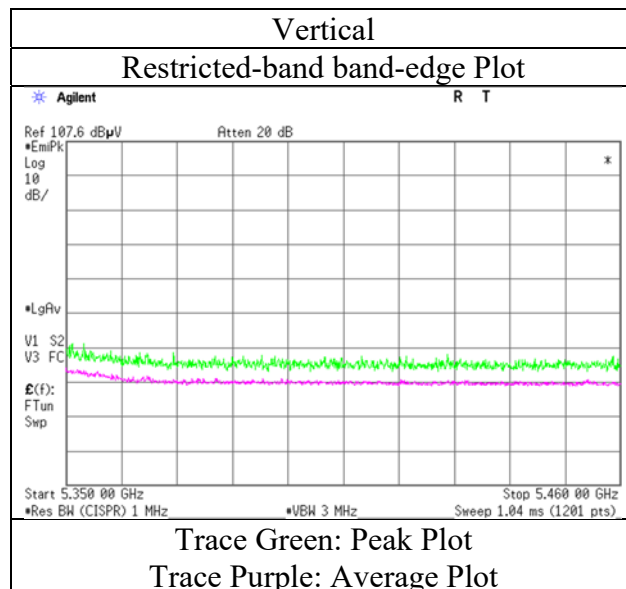
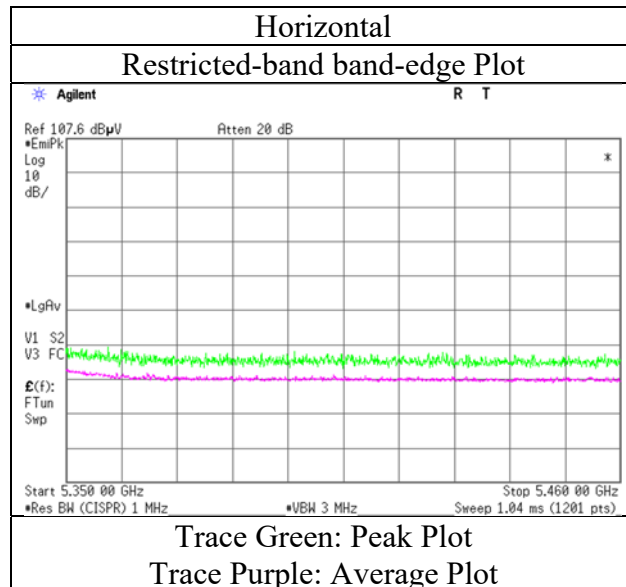
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 20, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-40 5310 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |                     |                     |
|------------------------|-----------------------------------------|---------------------|---------------------|
| Report No.             | 13170804H                               |                     |                     |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |                     |                     |
| Date                   | December 21, 2019                       | January 9, 2020     | January 9, 2020     |
| Temperature / Humidity | 23 deg. C / 40 % RH                     | 22 deg. C / 34 % RH | 24 deg. C / 35 % RH |
| Engineer               | Yuta Moriya                             | Junki Nagatomi      | Tomohisa Nakagawa   |
|                        | (1 GHz - 10 GHz)                        | (10 GHz - 18 GHz)   | (18 GHz - 40 GHz)   |
| Mode                   | Tx 11ax-40 5510 MHz (OFDM)              |                     |                     |

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5460.000           | PK       | 42.2              | 31.7               | 6.0          | 31.9         | -                   | 48.0               | 68.2              | 20.2           |             |
| Hori.    | 5470.000           | PK       | 45.9              | 31.7               | 6.0          | 31.9         | -                   | 51.8               | 68.2              | 16.5           |             |
| Hori.    | 11020.000          | PK       | 42.1              | 40.1               | -2.7         | 33.6         | -                   | 45.9               | 73.9              | 28.0           | Floor noise |
| Hori.    | 16530.000          | PK       | 44.2              | 39.8               | -1.6         | 32.7         | -                   | 49.7               | 68.2              | 18.5           | Floor noise |
| Hori.    | 5460.000           | AV       | 33.4              | 31.7               | 6.0          | 31.9         | 0.8                 | 40.0               | 53.9              | 13.9           | *1)         |
| Hori.    | 11020.000          | AV       | 33.8              | 40.1               | -2.7         | 33.6         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |
| Vert.    | 5460.000           | PK       | 43.1              | 31.7               | 6.0          | 31.9         | -                   | 48.9               | 68.2              | 19.3           |             |
| Vert.    | 5470.000           | PK       | 46.5              | 31.7               | 6.0          | 31.9         | -                   | 52.3               | 68.2              | 15.9           |             |
| Vert.    | 11020.000          | PK       | 42.5              | 40.1               | -2.7         | 33.6         | -                   | 46.2               | 73.9              | 27.7           | Floor noise |
| Vert.    | 16530.000          | PK       | 44.1              | 39.8               | -1.6         | 32.7         | -                   | 49.6               | 68.2              | 18.6           | Floor noise |
| Vert.    | 5460.000           | AV       | 34.8              | 31.7               | 6.0          | 31.9         | 0.8                 | 41.4               | 53.9              | 12.5           | *1)         |
| Vert.    | 11020.000          | AV       | 33.8              | 40.1               | -2.7         | 33.6         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

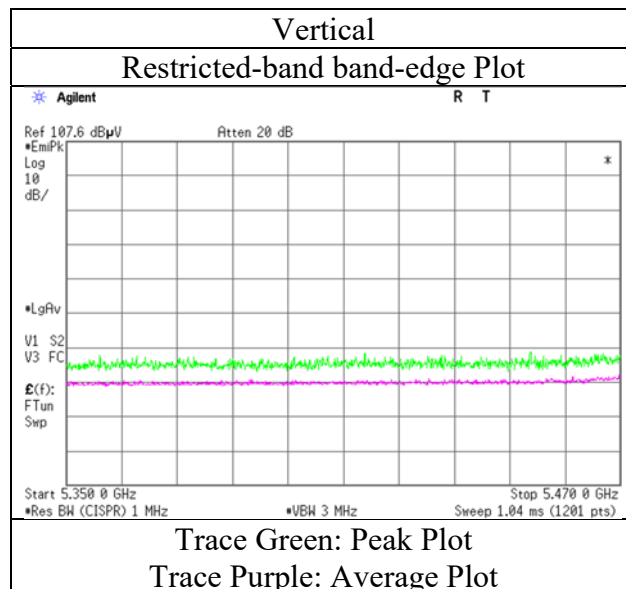
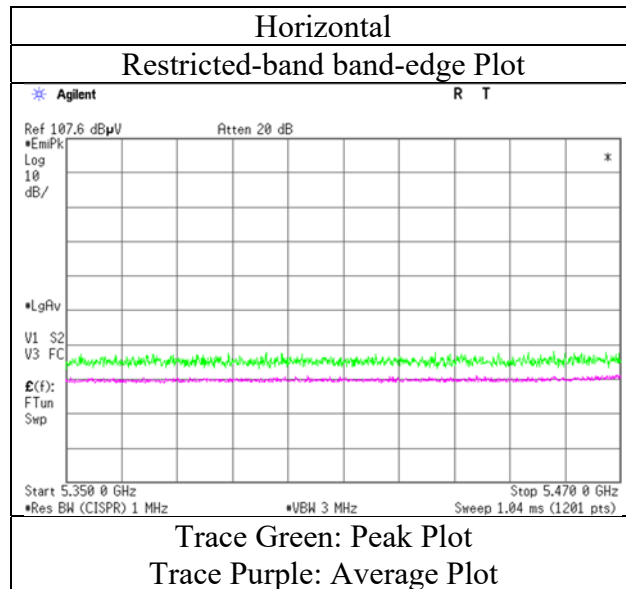
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:      1 GHz - 10 GHz       $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
                              10 GHz - 40 GHz       $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-40 5510 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 21, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-40 5550 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 11100.000          | PK       | 42.9              | 39.7               | -2.7         | 33.6         | -                   | 46.3               | 73.9              | 27.6           | Floor noise |
| Hori.    | 16650.000          | PK       | 44.6              | 40.4               | -1.5         | 32.7         | -                   | 50.8               | 68.2              | 17.4           | Floor noise |
| Hori.    | 11100.000          | AV       | 34.1              | 39.7               | -2.7         | 33.6         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |
| Vert.    | 11100.000          | PK       | 42.4              | 39.7               | -2.7         | 33.6         | -                   | 45.8               | 73.9              | 28.1           | Floor noise |
| Vert.    | 16650.000          | PK       | 44.3              | 40.4               | -1.5         | 32.7         | -                   | 50.5               | 68.2              | 17.7           | Floor noise |
| Vert.    | 11100.000          | AV       | 34.1              | 39.7               | -2.7         | 33.6         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |                     |                     |
|------------------------|-----------------------------------------|---------------------|---------------------|
| Report No.             | 13170804H                               |                     |                     |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |                     |                     |
| Date                   | December 21, 2019                       | January 9, 2020     | January 9, 2020     |
| Temperature / Humidity | 23 deg. C / 40 % RH                     | 22 deg. C / 34 % RH | 24 deg. C / 35 % RH |
| Engineer               | Yuta Moriya                             | Junki Nagatomi      | Tomohisa Nakagawa   |
|                        | (1 GHz - 10 GHz)                        | (10 GHz - 18 GHz)   | (18 GHz - 40 GHz)   |
| Mode                   | Tx 11ax-40 5670 MHz (OFDM)              |                     |                     |

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5725.000           | PK       | 43.2              | 32.0               | 6.1          | 31.9         | -                   | 49.4               | 68.2              | 18.8           |             |
| Hori.    | 11340.000          | PK       | 42.5              | 39.9               | -2.6         | 33.6         | -                   | 46.2               | 73.9              | 27.7           | Floor noise |
| Hori.    | 17010.000          | PK       | 44.1              | 42.0               | -1.5         | 32.6         | -                   | 52.0               | 68.2              | 16.2           | Floor noise |
| Hori.    | 11340.000          | AV       | 33.6              | 39.9               | -2.6         | 33.6         | -                   | 37.3               | 53.9              | 16.6           | Floor noise |
| Vert.    | 5725.000           | PK       | 44.5              | 32.0               | 6.1          | 31.9         | -                   | 50.6               | 68.2              | 17.6           |             |
| Vert.    | 11340.000          | PK       | 42.5              | 39.9               | -2.6         | 33.6         | -                   | 46.2               | 73.9              | 27.7           | Floor noise |
| Vert.    | 17010.000          | PK       | 43.6              | 42.0               | -1.5         | 32.6         | -                   | 51.5               | 68.2              | 16.7           | Floor noise |
| Vert.    | 11340.000          | AV       | 33.6              | 39.9               | -2.6         | 33.6         | -                   | 37.3               | 53.9              | 16.6           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

|                  |                 |                                                        |
|------------------|-----------------|--------------------------------------------------------|
| Distance factor: | 1 GHz - 10 GHz  | $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$ |
|                  | 10 GHz - 40 GHz | $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$ |

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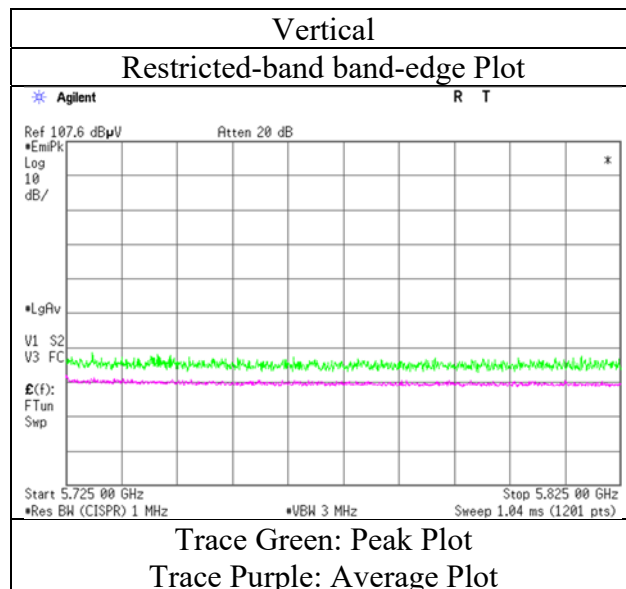
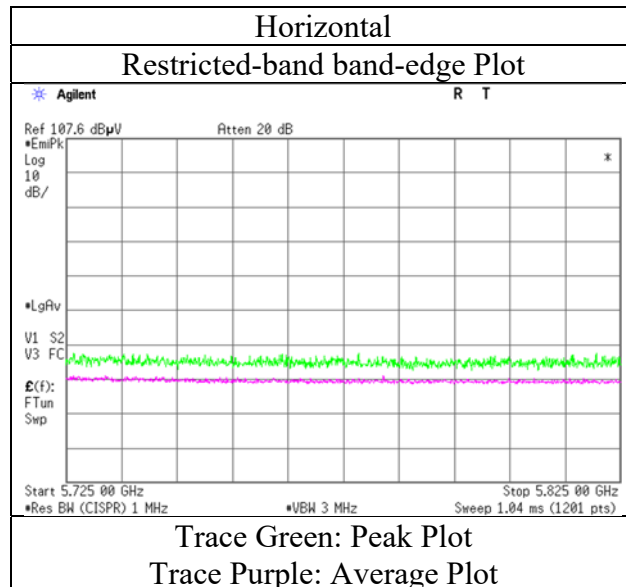
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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-40 5670 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 21, 2019 January 9, 2020 January 9, 2020 January 10, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz) (Below 1GHz)  
Mode Tx 11ax-40 5755 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 49.274             | QP       | 23.0              | 11.5               | 7.4          | 32.2         | -                   | 9.6                | 40.0              | 30.4           |             |
| Hori.    | 62.364             | QP       | 23.1              | 7.3                | 7.6          | 32.2         | -                   | 5.8                | 40.0              | 34.2           |             |
| Hori.    | 95.790             | QP       | 22.7              | 9.5                | 8.0          | 32.2         | -                   | 8.1                | 43.5              | 35.4           |             |
| Hori.    | 285.500            | QP       | 22.3              | 13.4               | 9.8          | 31.9         | -                   | 13.6               | 46.0              | 32.4           |             |
| Hori.    | 550.400            | QP       | 22.1              | 17.9               | 11.6         | 32.0         | -                   | 19.6               | 46.0              | 26.4           |             |
| Hori.    | 890.600            | QP       | 22.0              | 22.1               | 13.5         | 31.0         | -                   | 26.6               | 46.0              | 19.4           |             |
| Hori.    | 5650.000           | PK       | 40.5              | 31.8               | 6.1          | 31.9         | -                   | 46.4               | 68.2              | 21.8           |             |
| Hori.    | 5700.000           | PK       | 44.4              | 31.9               | 6.1          | 31.9         | -                   | 50.5               | 105.2             | 54.7           |             |
| Hori.    | 5720.000           | PK       | 52.3              | 32.0               | 6.1          | 31.9         | -                   | 58.5               | 110.8             | 52.4           |             |
| Hori.    | 5725.000           | PK       | 50.6              | 32.0               | 6.1          | 31.9         | -                   | 56.8               | 122.2             | 65.4           |             |
| Hori.    | 11510.000          | PK       | 42.2              | 39.7               | -2.5         | 33.5         | -                   | 45.8               | 73.9              | 28.1           | Floor noise |
| Hori.    | 17265.000          | PK       | 44.1              | 42.9               | -1.4         | 32.6         | -                   | 53.1               | 68.2              | 15.1           | Floor noise |
| Hori.    | 11510.000          | AV       | 33.7              | 39.7               | -2.5         | 33.5         | -                   | 37.4               | 53.9              | 16.5           | Floor noise |
| Vert.    | 49.231             | QP       | 26.6              | 11.5               | 7.4          | 32.2         | -                   | 13.3               | 40.0              | 26.8           |             |
| Vert.    | 61.859             | QP       | 33.4              | 7.4                | 7.6          | 32.2         | -                   | 16.2               | 40.0              | 23.8           |             |
| Vert.    | 94.134             | QP       | 26.5              | 9.2                | 8.0          | 32.2         | -                   | 11.6               | 43.5              | 31.9           |             |
| Vert.    | 285.700            | QP       | 22.3              | 13.4               | 9.9          | 31.9         | -                   | 13.6               | 46.0              | 32.4           |             |
| Vert.    | 549.900            | QP       | 22.1              | 17.9               | 11.6         | 32.0         | -                   | 19.6               | 46.0              | 26.4           |             |
| Vert.    | 890.400            | QP       | 21.6              | 22.1               | 13.5         | 31.0         | -                   | 26.2               | 46.0              | 19.8           |             |
| Vert.    | 5650.000           | PK       | 40.3              | 31.8               | 6.1          | 31.9         | -                   | 46.3               | 68.2              | 21.9           |             |
| Vert.    | 5700.000           | PK       | 45.1              | 31.9               | 6.1          | 31.9         | -                   | 51.2               | 105.2             | 54.0           |             |
| Vert.    | 5720.000           | PK       | 53.4              | 32.0               | 6.1          | 31.9         | -                   | 59.5               | 110.8             | 51.3           |             |
| Vert.    | 5725.000           | PK       | 53.7              | 32.0               | 6.1          | 31.9         | -                   | 59.9               | 122.2             | 62.3           |             |
| Vert.    | 11510.000          | PK       | 42.5              | 39.7               | -2.5         | 33.5         | -                   | 46.2               | 73.9              | 27.7           | Floor noise |
| Vert.    | 17265.000          | PK       | 44.1              | 42.9               | -1.4         | 32.6         | -                   | 53.0               | 68.2              | 15.2           | Floor noise |
| Vert.    | 11510.000          | AV       | 33.7              | 39.7               | -2.5         | 33.5         | -                   | 37.4               | 53.9              | 16.5           | Floor noise |

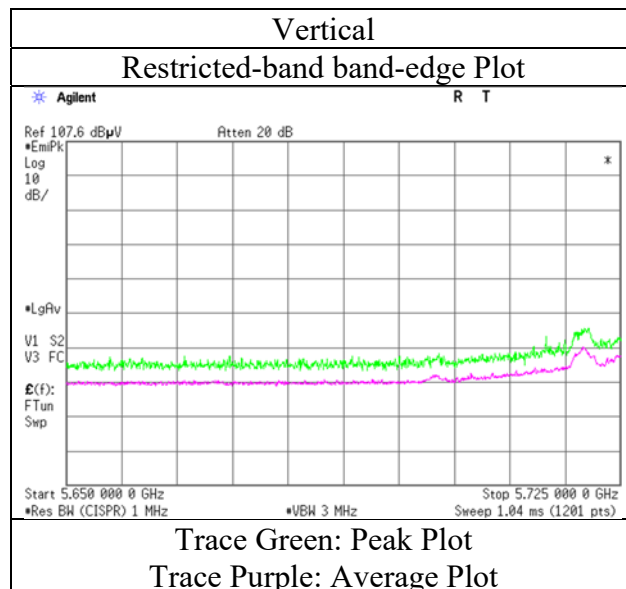
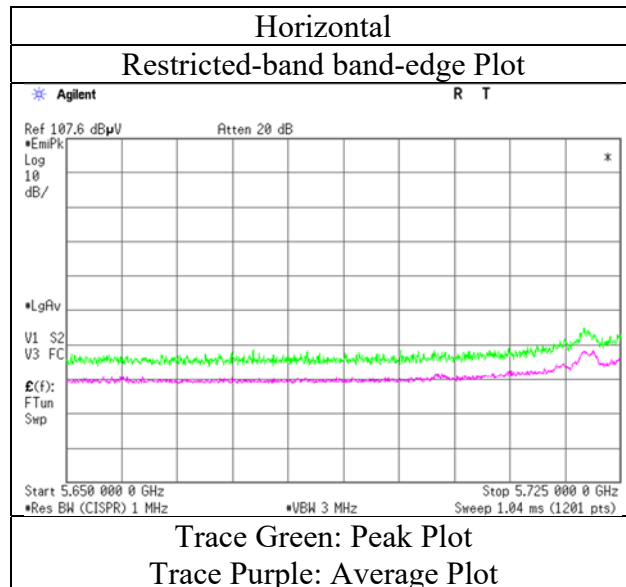
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB  
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-40 5755 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 21, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-40 5795 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5850.000           | PK       | 44.1              | 32.2               | 6.1          | 31.9         | -                   | 50.5               | 122.2             | 71.7           |             |
| Hori.    | 5855.000           | PK       | 41.1              | 32.2               | 6.1          | 31.9         | -                   | 47.6               | 110.8             | 63.2           |             |
| Hori.    | 5875.000           | PK       | 40.4              | 32.3               | 6.2          | 31.9         | -                   | 46.9               | 105.2             | 58.3           |             |
| Hori.    | 5925.000           | PK       | 40.3              | 32.3               | 6.2          | 31.9         | -                   | 46.8               | 68.2              | 21.4           |             |
| Hori.    | 11590.000          | PK       | 42.0              | 39.3               | -2.4         | 33.5         | -                   | 45.3               | 73.9              | 28.6           | Floor noise |
| Hori.    | 17385.000          | PK       | 43.6              | 44.4               | -1.3         | 32.6         | -                   | 54.0               | 68.2              | 14.2           | Floor noise |
| Hori.    | 11590.000          | AV       | 33.7              | 39.3               | -2.4         | 33.5         | -                   | 37.0               | 53.9              | 16.9           | Floor noise |
| Vert.    | 5850.000           | PK       | 46.6              | 32.2               | 6.1          | 31.9         | -                   | 53.0               | 122.2             | 69.2           |             |
| Vert.    | 5855.000           | PK       | 42.1              | 32.2               | 6.1          | 31.9         | -                   | 48.5               | 110.8             | 62.3           |             |
| Vert.    | 5875.000           | PK       | 41.7              | 32.3               | 6.2          | 31.9         | -                   | 48.1               | 105.2             | 57.1           |             |
| Vert.    | 5925.000           | PK       | 41.3              | 32.3               | 6.2          | 31.9         | -                   | 47.8               | 68.2              | 20.4           |             |
| Vert.    | 11590.000          | PK       | 42.3              | 39.3               | -2.4         | 33.5         | -                   | 45.6               | 73.9              | 28.4           | Floor noise |
| Vert.    | 17385.000          | PK       | 43.4              | 44.4               | -1.3         | 32.6         | -                   | 53.9               | 68.2              | 14.4           | Floor noise |
| Vert.    | 11590.000          | AV       | 33.7              | 39.3               | -2.4         | 33.5         | -                   | 37.0               | 53.9              | 16.9           | Floor noise |

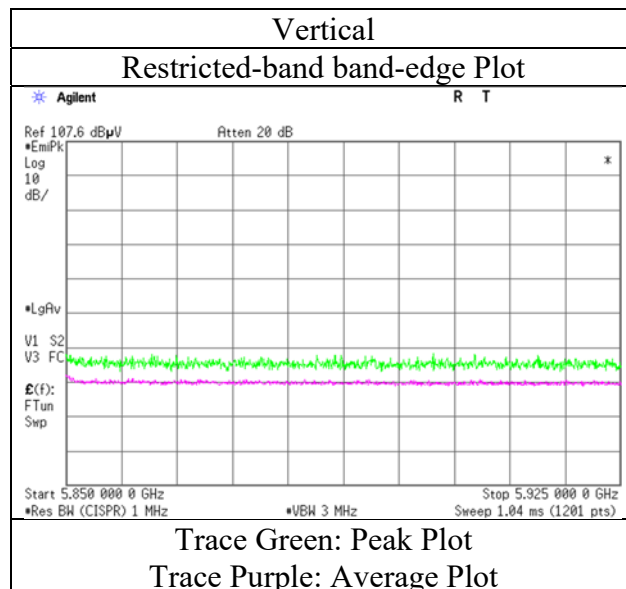
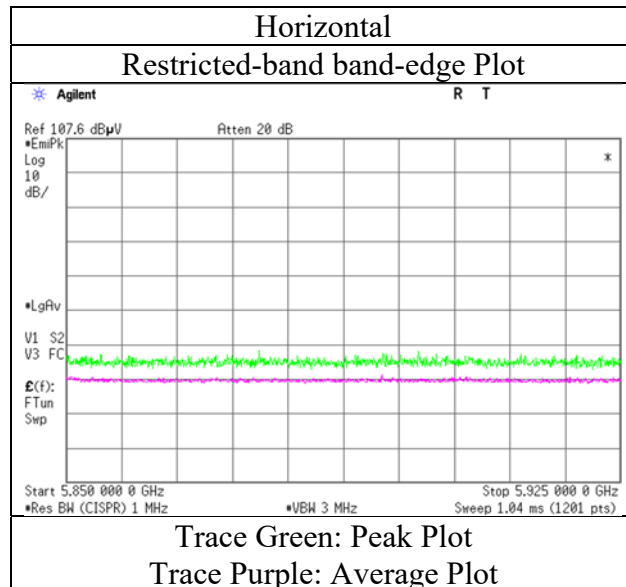
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-40 5795 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 21, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-80 5210 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5150.000           | PK       | 44.5              | 31.7               | 5.9          | 31.8         | -                   | 50.3               | 73.9              | 23.7           |             |
| Hori.    | 10420.000          | PK       | 42.8              | 40.0               | -3.1         | 33.5         | -                   | 46.2               | 68.2              | 22.0           | Floor noise |
| Hori.    | 15630.000          | PK       | 43.8              | 37.5               | -1.6         | 32.8         | -                   | 46.9               | 73.9              | 27.0           | Floor noise |
| Hori.    | 5150.000           | AV       | 34.6              | 31.7               | 5.9          | 31.8         | 0.8                 | 41.2               | 53.9              | 12.7           | *1)         |
| Hori.    | 15630.000          | AV       | 35.5              | 37.5               | -1.6         | 32.8         | -                   | 38.7               | 53.9              | 15.3           | Floor noise |
| Vert.    | 5150.000           | PK       | 44.4              | 31.7               | 5.9          | 31.8         | -                   | 50.2               | 73.9              | 23.7           |             |
| Vert.    | 10420.000          | PK       | 42.3              | 40.0               | -3.1         | 33.5         | -                   | 45.7               | 68.2              | 22.5           | Floor noise |
| Vert.    | 15630.000          | PK       | 44.7              | 37.5               | -1.6         | 32.8         | -                   | 47.9               | 73.9              | 26.0           | Floor noise |
| Vert.    | 5150.000           | AV       | 35.3              | 31.7               | 5.9          | 31.8         | 0.8                 | 41.9               | 53.9              | 12.0           | *1)         |
| Vert.    | 15630.000          | AV       | 35.5              | 37.5               | -1.6         | 32.8         | -                   | 38.7               | 53.9              | 15.3           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

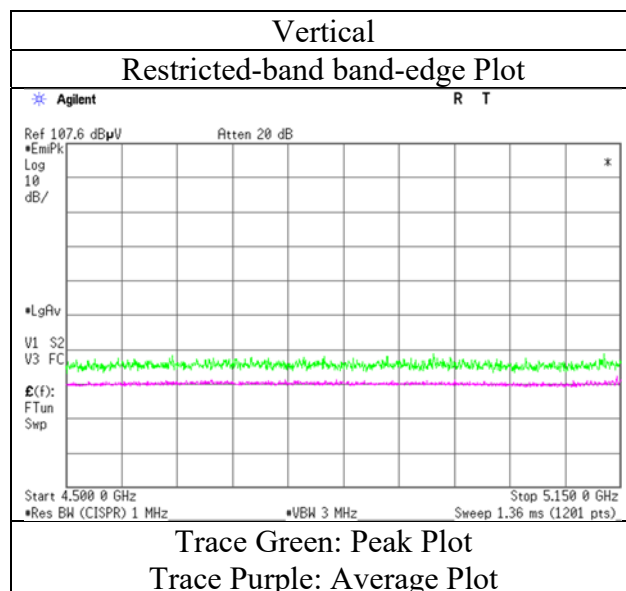
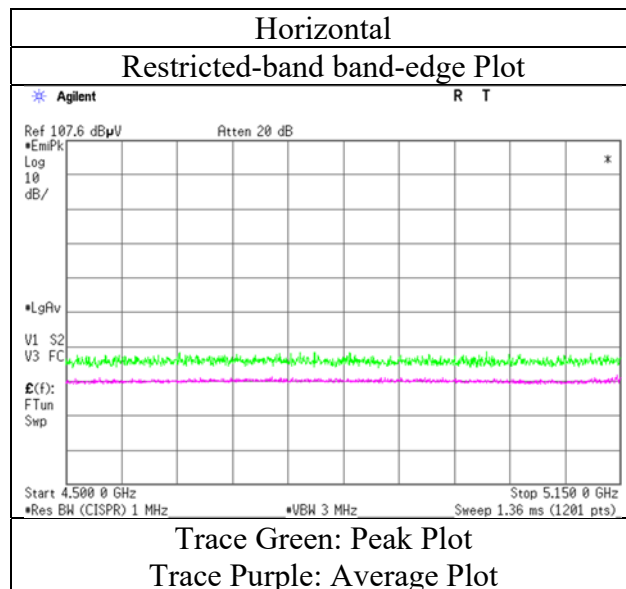
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-80 5210 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 21, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-80 5290 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5350.000           | PK       | 48.1              | 31.5               | 6.0          | 31.8         | -                   | 53.7               | 73.9              | 20.2           |             |
| Hori.    | 5354.567           | PK       | 48.9              | 31.5               | 6.0          | 31.8         | -                   | 54.5               | 73.9              | 19.4           |             |
| Hori.    | 10580.000          | PK       | 43.1              | 39.9               | -3.0         | 33.6         | -                   | 46.4               | 68.2              | 21.8           | Floor noise |
| Hori.    | 15870.000          | PK       | 43.7              | 37.6               | -1.7         | 32.8         | -                   | 46.8               | 73.9              | 27.1           | Floor noise |
| Hori.    | 5350.000           | AV       | 37.7              | 31.5               | 6.0          | 31.8         | 0.8                 | 44.1               | 53.9              | 9.8            | *1)         |
| Hori.    | 5354.567           | AV       | 37.9              | 31.5               | 6.0          | 31.8         | 0.8                 | 44.3               | 53.9              | 9.6            | *1)         |
| Hori.    | 15870.000          | AV       | 35.1              | 37.6               | -1.7         | 32.8         | -                   | 38.2               | 53.9              | 15.8           | Floor noise |
| Vert.    | 5350.000           | PK       | 51.2              | 31.5               | 6.0          | 31.8         | -                   | 56.8               | 73.9              | 17.1           |             |
| Vert.    | 5354.567           | PK       | 53.2              | 31.5               | 6.0          | 31.8         | -                   | 58.8               | 73.9              | 15.2           |             |
| Vert.    | 10580.000          | PK       | 42.1              | 39.9               | -3.0         | 33.6         | -                   | 45.5               | 68.2              | 22.8           | Floor noise |
| Vert.    | 15870.000          | PK       | 43.8              | 37.6               | -1.7         | 32.8         | -                   | 46.9               | 73.9              | 27.0           | Floor noise |
| Vert.    | 5350.000           | AV       | 41.0              | 31.5               | 6.0          | 31.8         | 0.8                 | 47.3               | 53.9              | 6.6            | *1)         |
| Vert.    | 5354.567           | AV       | 42.0              | 31.5               | 6.0          | 31.8         | 0.8                 | 48.4               | 53.9              | 5.6            | *1)         |
| Vert.    | 15870.000          | AV       | 35.1              | 37.6               | -1.7         | 32.8         | -                   | 38.2               | 53.9              | 15.8           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

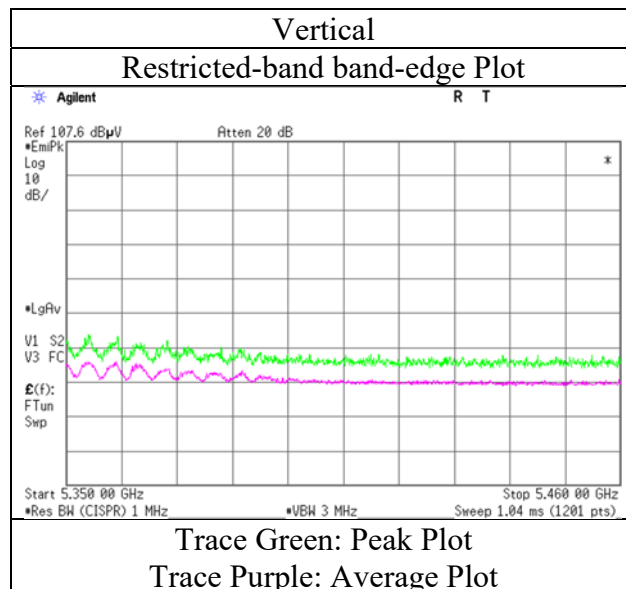
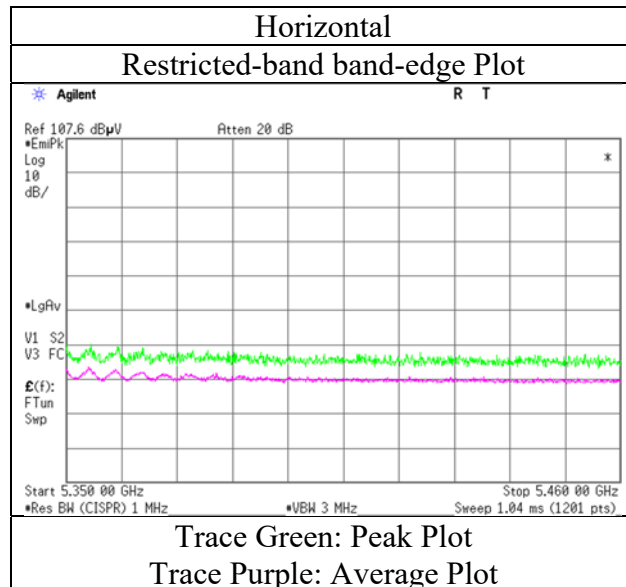
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB  
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-80 5290 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |                     |                     |
|------------------------|-----------------------------------------|---------------------|---------------------|
| Report No.             | 13170804H                               |                     |                     |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |                     |                     |
| Date                   | December 21, 2019                       | January 9, 2020     | January 9, 2020     |
| Temperature / Humidity | 23 deg. C / 40 % RH                     | 22 deg. C / 34 % RH | 24 deg. C / 35 % RH |
| Engineer               | Yuta Moriya                             | Junki Nagatomi      | Tomohisa Nakagawa   |
|                        | (1 GHz - 10 GHz)                        | (10 GHz - 18 GHz)   | (18 GHz - 40 GHz)   |
| Mode                   | Tx 11ax-80 5530 MHz (OFDM)              |                     |                     |

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5460.000           | PK       | 46.6              | 31.7               | 6.0          | 31.9         | -                   | 52.4               | 68.2              | 15.8           |             |
| Hori.    | 5470.000           | PK       | 46.2              | 31.7               | 6.0          | 31.9         | -                   | 52.0               | 68.2              | 16.2           |             |
| Hori.    | 11060.000          | PK       | 42.3              | 39.8               | -2.7         | 33.6         | -                   | 45.8               | 73.9              | 28.1           | Floor noise |
| Hori.    | 16590.000          | PK       | 43.9              | 40.3               | -1.6         | 32.7         | -                   | 50.0               | 68.2              | 18.2           | Floor noise |
| Hori.    | 5460.000           | AV       | 36.8              | 31.7               | 6.0          | 31.9         | 0.8                 | 43.4               | 53.9              | 10.5           | *1)         |
| Hori.    | 11060.000          | AV       | 34.0              | 39.8               | -2.7         | 33.6         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |
| Vert.    | 5460.000           | PK       | 48.6              | 31.7               | 6.0          | 31.9         | -                   | 54.5               | 68.2              | 13.7           |             |
| Vert.    | 5470.000           | PK       | 49.2              | 31.7               | 6.0          | 31.9         | -                   | 55.1               | 68.2              | 13.1           |             |
| Vert.    | 11060.000          | PK       | 42.2              | 39.8               | -2.7         | 33.6         | -                   | 45.7               | 73.9              | 28.2           | Floor noise |
| Vert.    | 16590.000          | PK       | 43.7              | 40.3               | -1.6         | 32.7         | -                   | 49.8               | 68.2              | 18.5           | Floor noise |
| Vert.    | 5460.000           | AV       | 38.4              | 31.7               | 6.0          | 31.9         | 0.8                 | 45.0               | 53.9              | 8.9            | *1)         |
| Vert.    | 11060.000          | AV       | 34.0              | 39.8               | -2.7         | 33.6         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

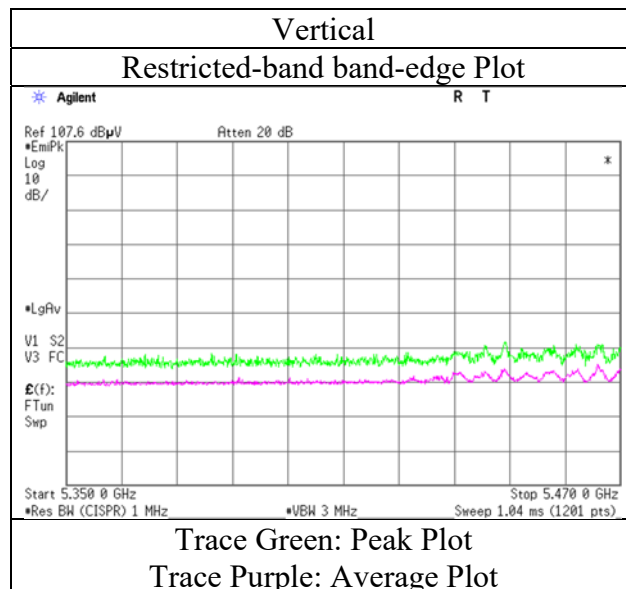
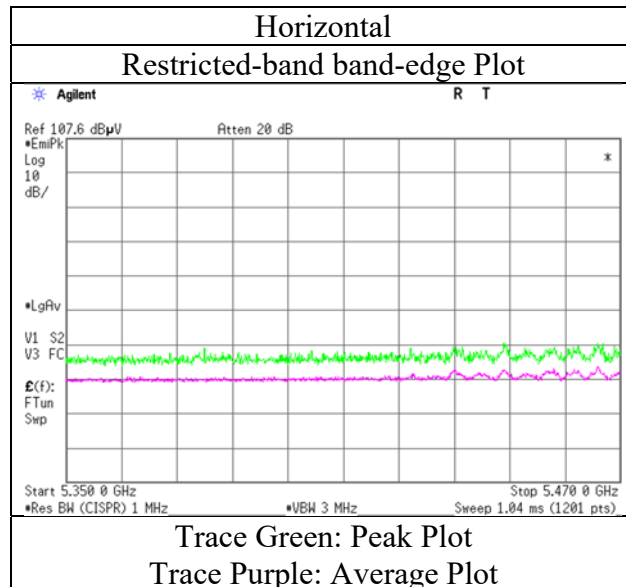
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:      1 GHz - 10 GHz       $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
                                  10 GHz - 40 GHz       $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-80 5530 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 21, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-80 5610 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5725.000           | PK       | 41.3              | 32.0               | 6.1          | 31.9         | -                   | 47.5               | 68.2              | 20.7           |             |
| Hori.    | 11220.000          | PK       | 42.5              | 39.6               | -2.6         | 33.6         | -                   | 45.9               | 73.9              | 28.0           | Floor noise |
| Hori.    | 16830.000          | PK       | 43.3              | 41.5               | -1.5         | 32.6         | -                   | 50.7               | 68.2              | 17.5           | Floor noise |
| Hori.    | 11220.000          | AV       | 34.0              | 39.6               | -2.6         | 33.6         | -                   | 37.4               | 53.9              | 16.5           | Floor noise |
| Vert.    | 5725.000           | PK       | 40.7              | 32.0               | 6.1          | 31.9         | -                   | 46.9               | 68.2              | 21.3           |             |
| Vert.    | 11220.000          | PK       | 43.1              | 39.6               | -2.6         | 33.6         | -                   | 46.5               | 73.9              | 27.4           | Floor noise |
| Vert.    | 16830.000          | PK       | 43.3              | 41.5               | -1.5         | 32.6         | -                   | 50.7               | 68.2              | 17.5           | Floor noise |
| Vert.    | 11220.000          | AV       | 34.0              | 39.6               | -2.6         | 33.6         | -                   | 37.4               | 53.9              | 16.5           | Floor noise |

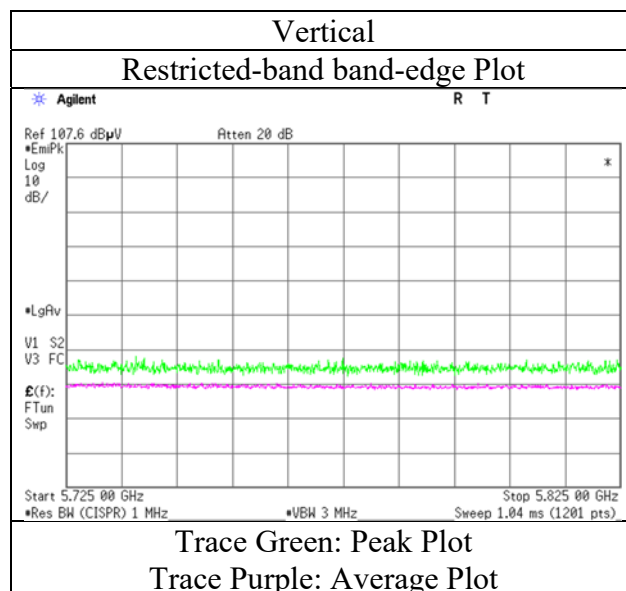
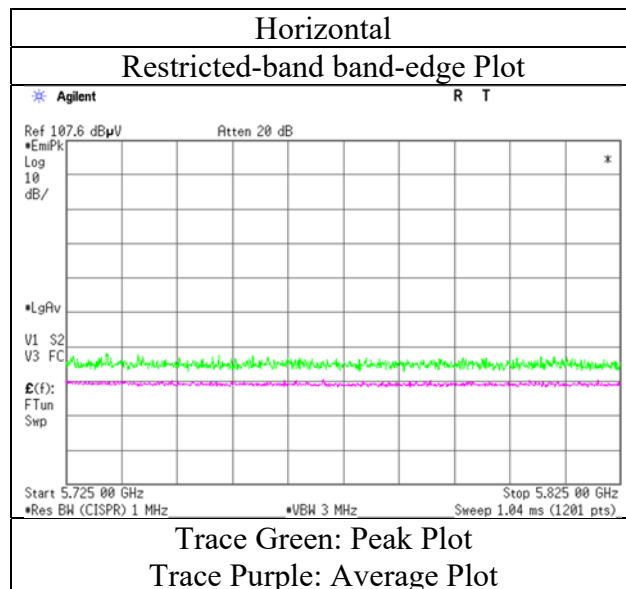
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$   
10 GHz - 40 GHz  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-80 5610 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date December 21, 2019 January 9, 2020 January 9, 2020  
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH  
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)  
Mode Tx 11ax-80 5775 MHz (OFDM)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark      |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|-------------|
| Hori.    | 5650.000           | PK       | 41.6              | 31.8               | 6.1          | 31.9         | -                   | 47.6               | 68.2              | 20.6           |             |
| Hori.    | 5700.000           | PK       | 47.0              | 31.9               | 6.1          | 31.9         | -                   | 53.1               | 105.2             | 52.1           |             |
| Hori.    | 5720.000           | PK       | 51.1              | 32.0               | 6.1          | 31.9         | -                   | 57.2               | 110.8             | 53.6           |             |
| Hori.    | 5725.000           | PK       | 51.7              | 32.0               | 6.1          | 31.9         | -                   | 57.8               | 122.2             | 64.4           |             |
| Hori.    | 5850.000           | PK       | 45.3              | 32.2               | 6.1          | 31.9         | -                   | 51.7               | 122.2             | 70.5           |             |
| Hori.    | 5855.000           | PK       | 42.9              | 32.2               | 6.1          | 31.9         | -                   | 49.4               | 110.8             | 61.5           |             |
| Hori.    | 5875.000           | PK       | 42.0              | 32.3               | 6.2          | 31.9         | -                   | 48.4               | 105.2             | 56.8           |             |
| Hori.    | 5925.000           | PK       | 40.6              | 32.3               | 6.2          | 31.9         | -                   | 47.2               | 68.2              | 21.1           |             |
| Hori.    | 11550.000          | PK       | 42.5              | 39.8               | -2.5         | 33.5         | -                   | 46.4               | 73.9              | 27.5           | Floor noise |
| Hori.    | 17325.000          | PK       | 44.4              | 43.8               | -1.4         | 32.6         | -                   | 54.2               | 68.2              | 14.0           | Floor noise |
| Hori.    | 11550.000          | AV       | 33.7              | 39.8               | -2.5         | 33.5         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |
| Vert.    | 5650.000           | PK       | 41.7              | 31.8               | 6.1          | 31.9         | -                   | 47.6               | 68.2              | 20.6           |             |
| Vert.    | 5700.000           | PK       | 49.5              | 31.9               | 6.1          | 31.9         | -                   | 55.6               | 105.2             | 49.6           |             |
| Vert.    | 5720.000           | PK       | 52.6              | 32.0               | 6.1          | 31.9         | -                   | 58.7               | 110.8             | 52.1           |             |
| Vert.    | 5725.000           | PK       | 54.0              | 32.0               | 6.1          | 31.9         | -                   | 60.2               | 122.2             | 62.0           |             |
| Vert.    | 5850.000           | PK       | 47.4              | 32.2               | 6.1          | 31.9         | -                   | 53.8               | 122.2             | 68.4           |             |
| Vert.    | 5855.000           | PK       | 46.6              | 32.2               | 6.1          | 31.9         | -                   | 53.0               | 110.8             | 57.8           |             |
| Vert.    | 5875.000           | PK       | 42.3              | 32.3               | 6.2          | 31.9         | -                   | 48.7               | 105.2             | 56.5           |             |
| Vert.    | 5925.000           | PK       | 40.5              | 32.3               | 6.2          | 31.9         | -                   | 47.0               | 68.2              | 21.2           |             |
| Vert.    | 11550.000          | PK       | 42.2              | 39.8               | -2.5         | 33.5         | -                   | 46.0               | 73.9              | 27.9           | Floor noise |
| Vert.    | 17325.000          | PK       | 44.2              | 43.8               | -1.4         | 32.6         | -                   | 54.0               | 68.2              | 14.2           | Floor noise |
| Vert.    | 11550.000          | AV       | 33.7              | 39.8               | -2.5         | 33.5         | -                   | 37.5               | 53.9              | 16.4           | Floor noise |

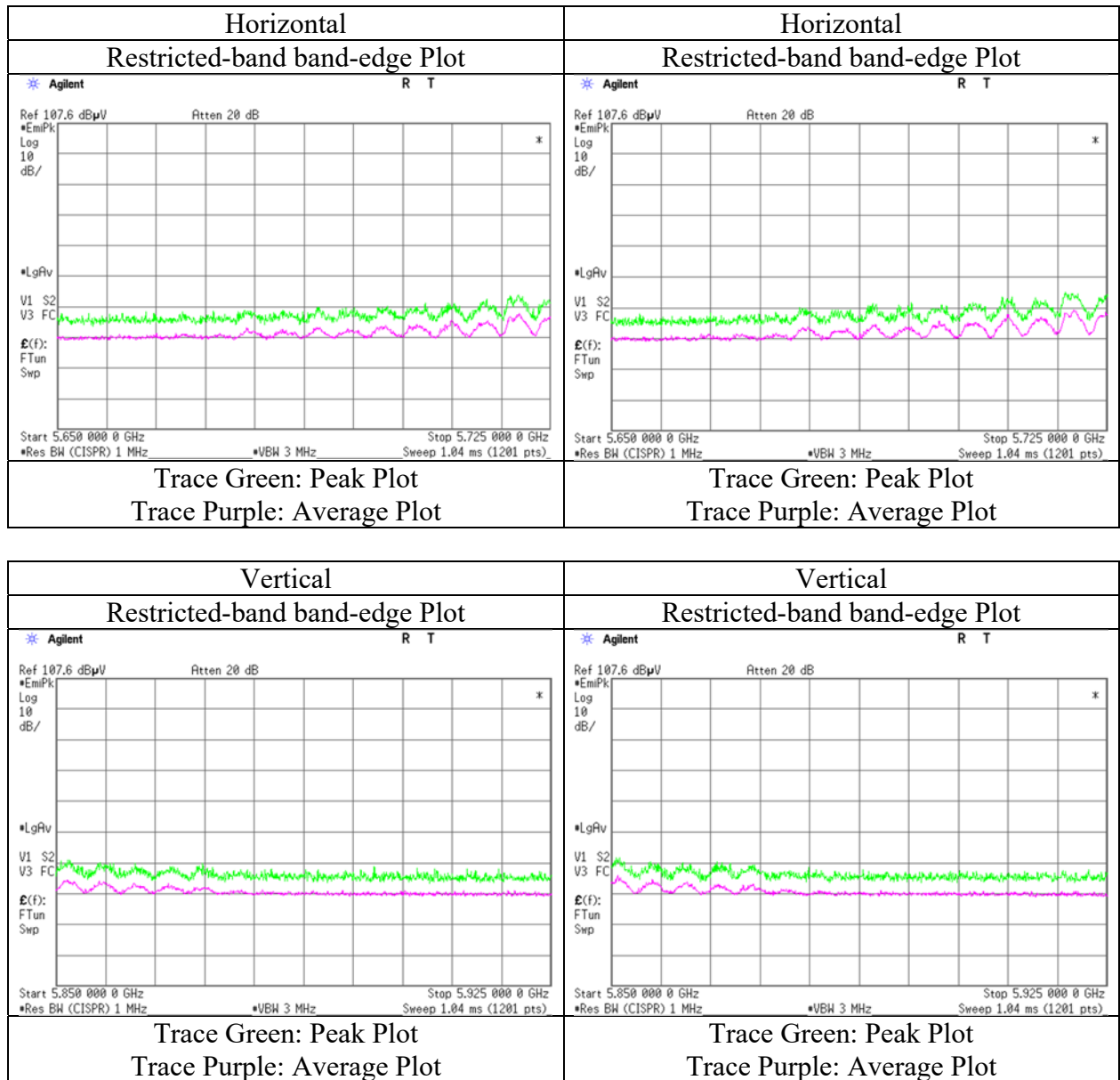
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB  
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | December 21, 2019                       |
| Temperature / Humidity | 23 deg. C / 40 % RH                     |
| Engineer               | Yuta Moriya                             |
| Mode                   | Tx 11ax-80 5775 MHz (OFDM)              |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 25, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5180 MHz (26-tone RU)        |

### RU Index 0

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.6              | 31.7               | 5.9          | 31.8         | -                   | 46.4               | 73.9              | 27.5           |        |
| Hori.    | 5150.000           | AV       | 32.6              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.6               | 53.9              | 15.3           | *1)    |
| Vert.    | 5150.000           | PK       | 40.6              | 31.7               | 5.9          | 31.8         | -                   | 46.4               | 73.9              | 27.5           |        |
| Vert.    | 5150.000           | AV       | 32.6              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.6               | 53.9              | 15.3           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

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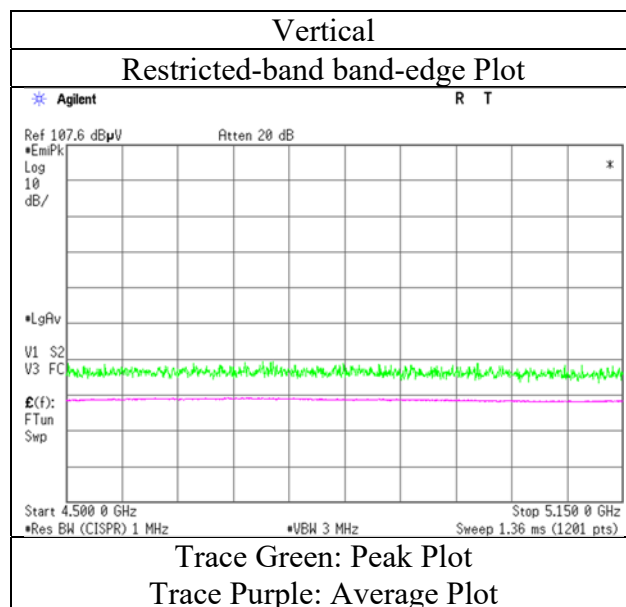
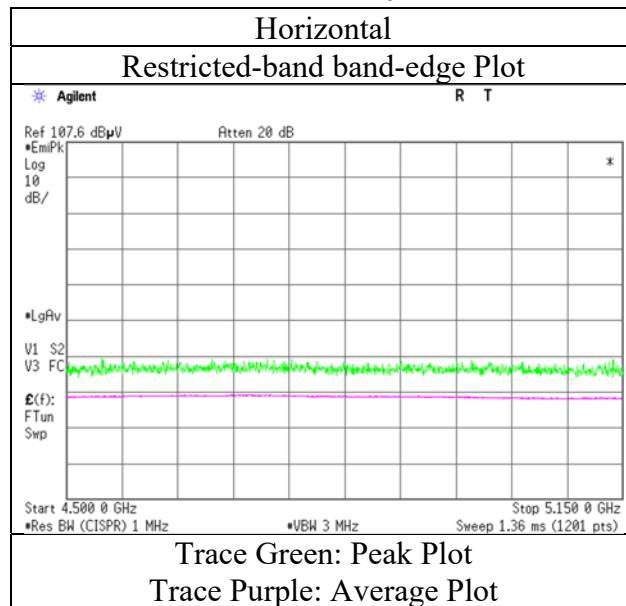
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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 25, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5180 MHz (26-tone RU)        |

### RU Index 0



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 25, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5180 MHz (52-tone RU)        |

### RU Index 37

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.6              | 31.7               | 5.9          | 31.8         | -                   | 46.4               | 73.9              | 27.5           |        |
| Hori.    | 5150.000           | AV       | 32.5              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.6               | 53.9              | 15.4           | *1)    |
| Vert.    | 5150.000           | PK       | 40.7              | 31.7               | 5.9          | 31.8         | -                   | 46.5               | 73.9              | 27.4           |        |
| Vert.    | 5150.000           | AV       | 32.7              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.7               | 53.9              | 15.2           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

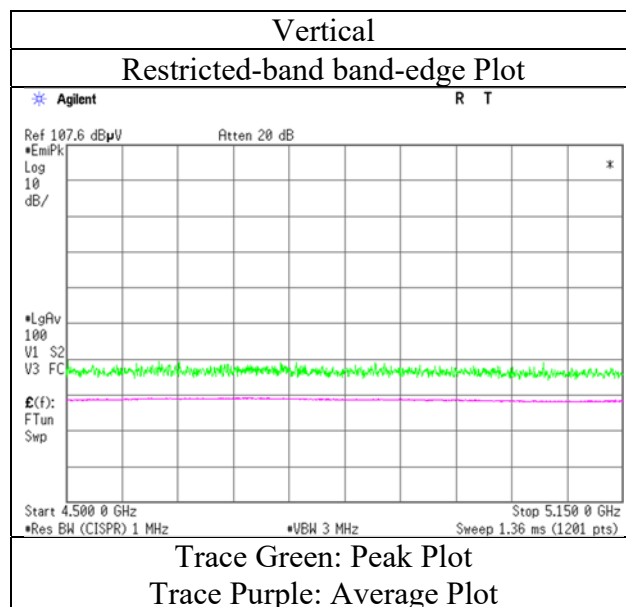
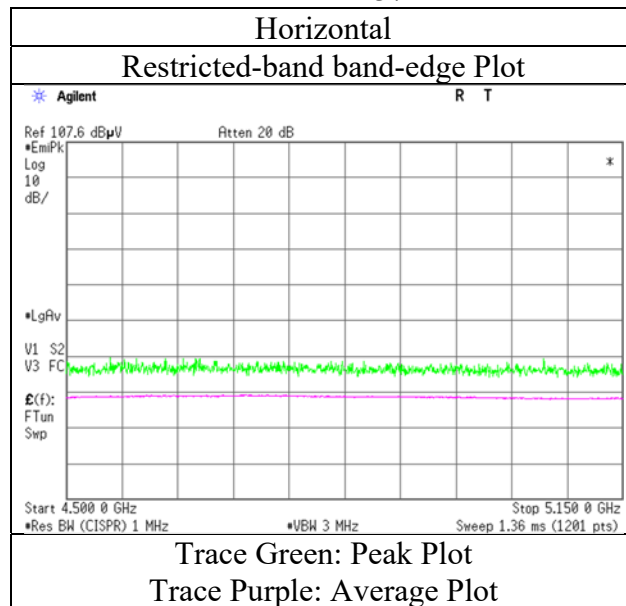
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 25, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5180 MHz (52-tone RU)        |

### RU Index 37



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 25, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-20 5180 MHz (106-tone RU)       |

### RU Index 53

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.6              | 31.7               | 5.9          | 31.8         | -                   | 46.4               | 73.9              | 27.5           |        |
| Hori.    | 5150.000           | AV       | 32.5              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.5               | 53.9              | 15.4           | *1)    |
| Vert.    | 5150.000           | PK       | 40.7              | 31.7               | 5.9          | 31.8         | -                   | 46.5               | 73.9              | 27.4           |        |
| Vert.    | 5150.000           | AV       | 32.7              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.7               | 53.9              | 15.2           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

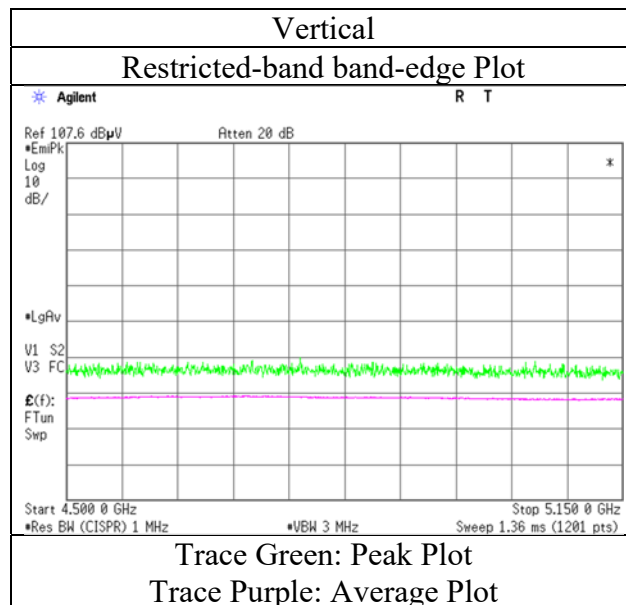
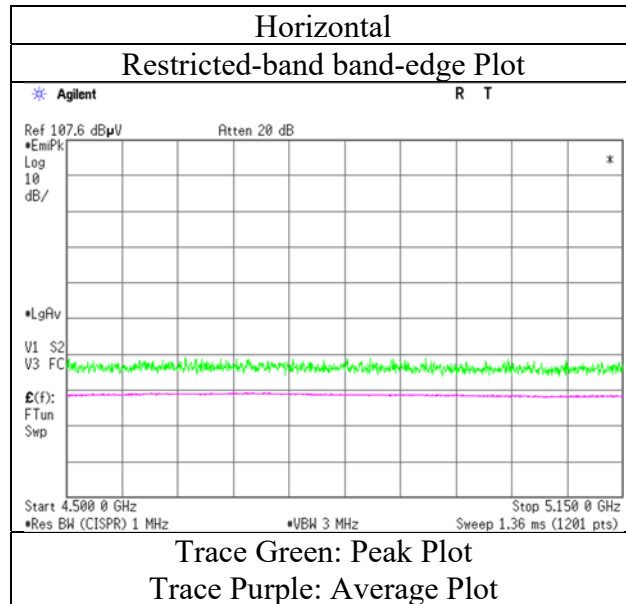
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 25, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5180 MHz (106-tone RU)       |

### RU Index 53



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date April 6, 2020  
Temperature / Humidity 20 deg. C / 27 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5180 MHz (242-tone RU)

### RU Index 61

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.3              | 31.7               | 6.0          | 31.6         | -                   | 46.3               | 73.9              | 27.6           |        |
| Hori.    | 5150.000           | AV       | 32.2              | 31.7               | 6.0          | 31.6         | 0.3                 | 38.5               | 53.9              | 15.5           | *1)    |
| Vert.    | 5150.000           | PK       | 49.1              | 31.7               | 6.0          | 31.6         | -                   | 55.2               | 73.9              | 18.7           |        |
| Vert.    | 5150.000           | AV       | 32.1              | 31.7               | 6.0          | 31.6         | 0.3                 | 38.4               | 53.9              | 15.5           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

34.4

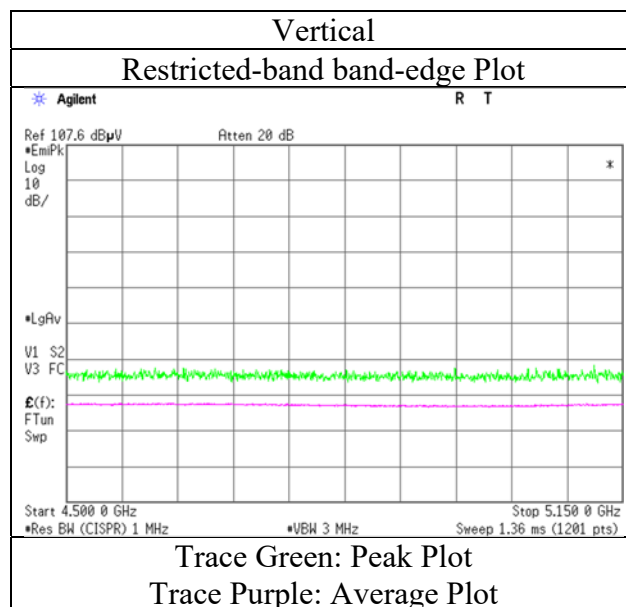
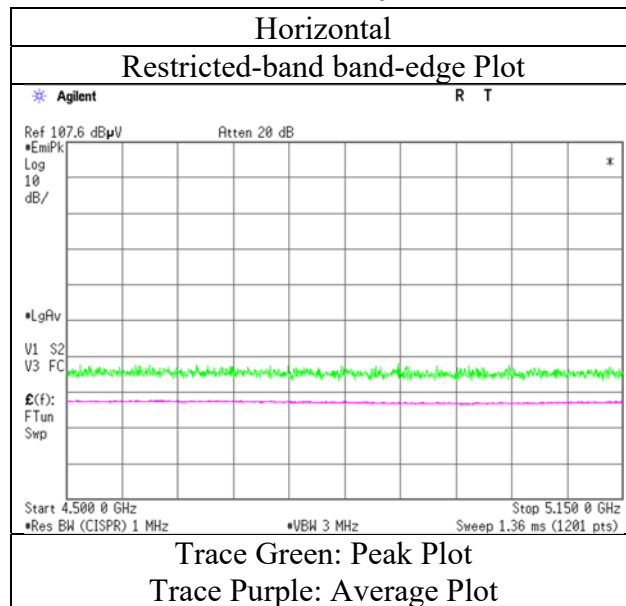
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5180 MHz (242-tone RU)       |

### RU Index 61



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5320 MHz (26-tone RU)        |

### RU Index 8

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5350.000           | PK       | 40.5              | 31.5               | 6.0          | 31.8         | -                   | 46.1               | 73.9              | 27.8           |        |
| Hori.    | 5350.000           | AV       | 32.2              | 31.5               | 6.0          | 31.8         | 0.2                 | 38.0               | 53.9              | 15.9           | *1)    |
| Vert.    | 5350.000           | PK       | 40.3              | 31.5               | 6.0          | 31.8         | -                   | 45.9               | 73.9              | 28.0           |        |
| Vert.    | 5350.000           | AV       | 32.2              | 31.5               | 6.0          | 31.8         | 0.2                 | 38.0               | 53.9              | 15.9           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

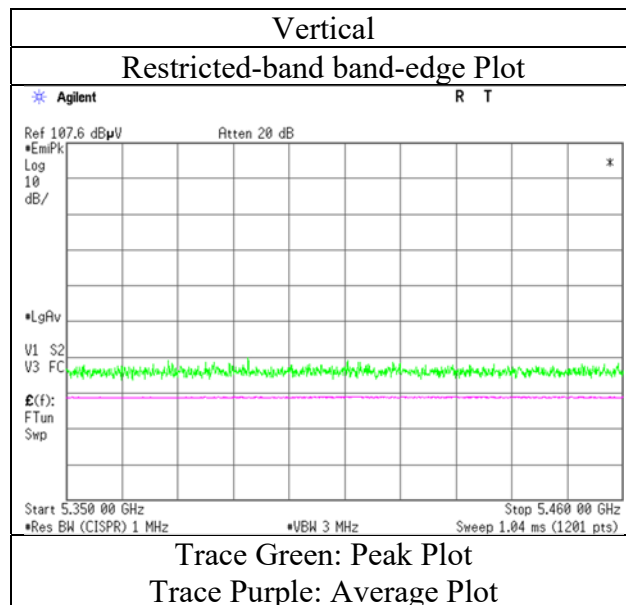
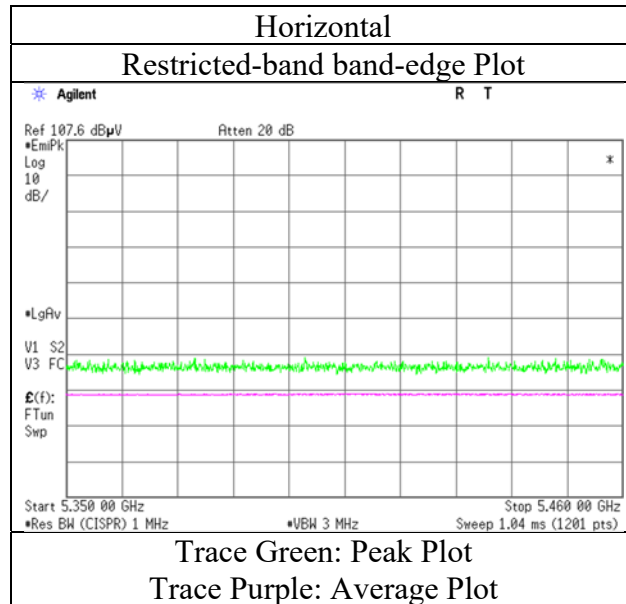
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5320 MHz (26-tone RU)        |

### RU Index 8



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5320 MHz (52-tone RU)        |

### RU Index 40

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5350.000           | PK       | 40.5              | 31.5               | 6.0          | 31.8         | -                   | 46.1               | 73.9              | 27.8           |        |
| Hori.    | 5350.000           | AV       | 32.3              | 31.5               | 6.0          | 31.8         | 0.2                 | 38.1               | 53.9              | 15.8           | *1)    |
| Vert.    | 5350.000           | PK       | 40.4              | 31.5               | 6.0          | 31.8         | -                   | 46.0               | 73.9              | 27.9           |        |
| Vert.    | 5350.000           | AV       | 32.2              | 31.5               | 6.0          | 31.8         | 0.2                 | 38.0               | 53.9              | 15.9           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

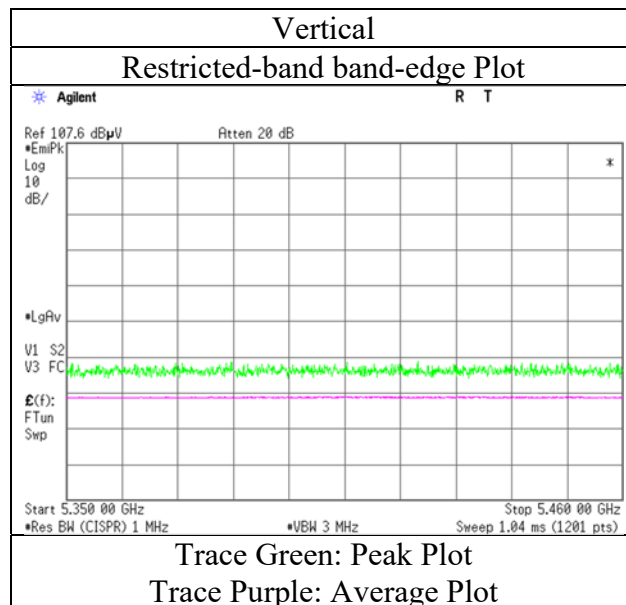
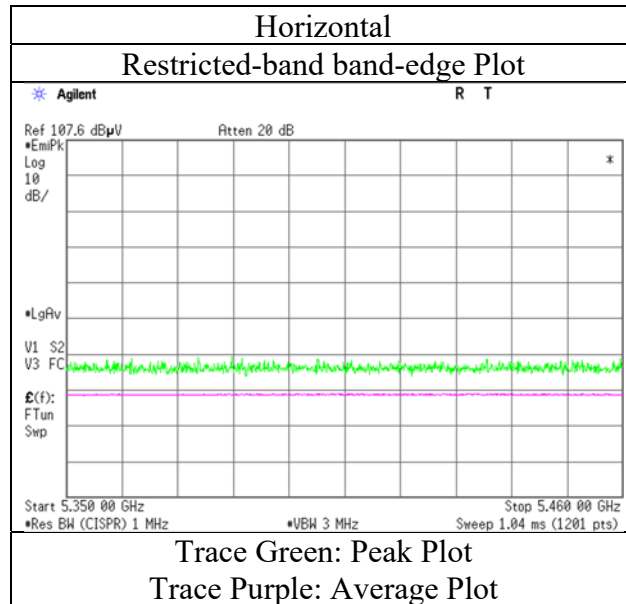
Distance factor: 1 GHz - 10 GHz  $20\log(3.9 \text{ m} / 3.0 \text{ m}) = 2.28 \text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5320 MHz (52-tone RU)        |

### RU Index 40



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 27, 2020  
Temperature / Humidity 23 deg. C / 31 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5320 MHz (106-tone RU)

### RU Index 54

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5350.000           | PK       | 40.7              | 31.5               | 6.0          | 31.8         | -                   | 46.3               | 73.9              | 27.6           |        |
| Hori.    | 5350.000           | AV       | 32.6              | 31.5               | 6.0          | 31.8         | 0.2                 | 38.4               | 53.9              | 15.5           | *1)    |
| Vert.    | 5350.000           | PK       | 40.6              | 31.5               | 6.0          | 31.8         | -                   | 46.1               | 73.9              | 27.8           |        |
| Vert.    | 5350.000           | AV       | 32.4              | 31.5               | 6.0          | 31.8         | 0.2                 | 38.2               | 53.9              | 15.7           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

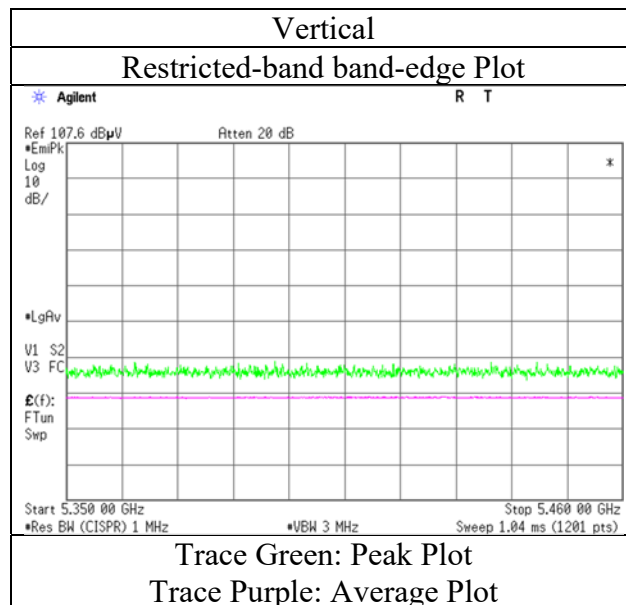
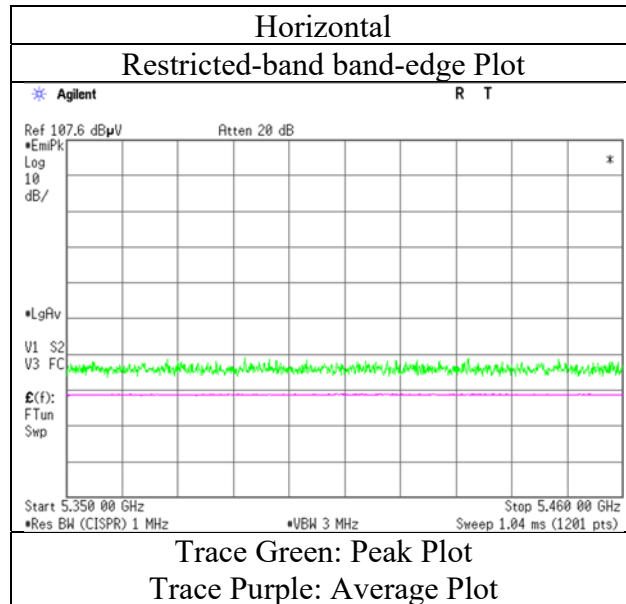
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5320 MHz (106-tone RU)       |

### RU Index 54



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-20 5320 MHz (242-tone RU)       |

### RU Index 61

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5350.000           | PK       | 40.3              | 31.5               | 6.1          | 31.7         | -                   | 46.1               | 73.9              | 27.8           |        |
| Hori.    | 5350.000           | AV       | 32.3              | 31.5               | 6.1          | 31.7         | 0.3                 | 38.4               | 53.9              | 15.5           | *1)    |
| Vert.    | 5350.000           | PK       | 41.2              | 31.5               | 6.1          | 31.7         | -                   | 47.0               | 73.9              | 26.9           |        |
| Vert.    | 5350.000           | AV       | 32.2              | 31.5               | 6.1          | 31.7         | 0.3                 | 38.3               | 53.9              | 15.6           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

34.4

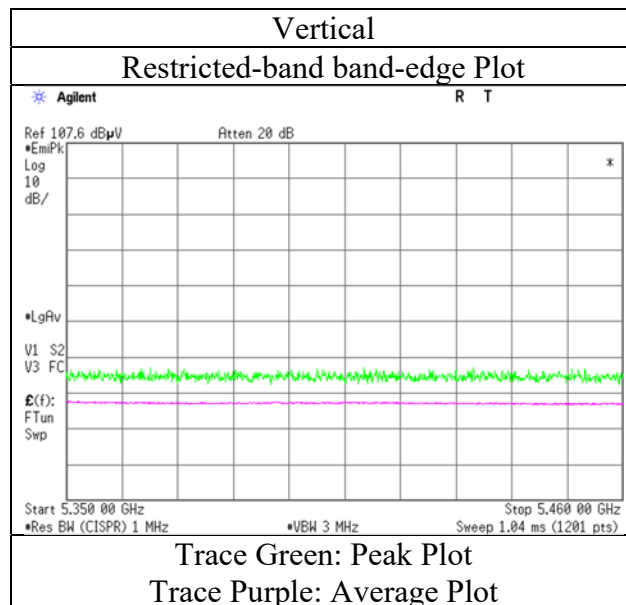
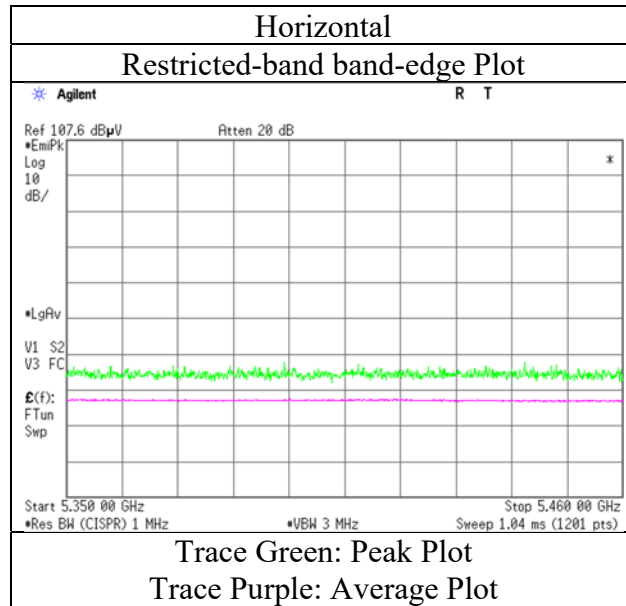
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5320 MHz (242-tone RU)       |

### RU Index 61



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5500 MHz (26-tone RU)        |

### RU Index 0

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5460.000           | PK       | 40.3              | 31.7               | 6.0          | 31.9         | -                   | 46.1               | 68.2              | 22.1           |        |
| Hori.    | 5470.000           | PK       | 40.5              | 31.7               | 6.0          | 31.9         | -                   | 46.3               | 68.2              | 21.9           |        |
| Hori.    | 5460.000           | AV       | 32.5              | 31.7               | 6.0          | 31.9         | 0.2                 | 38.5               | 53.9              | 15.4           | *1)    |
| Vert.    | 5460.000           | PK       | 40.3              | 31.7               | 6.0          | 31.9         | -                   | 46.1               | 68.2              | 22.1           |        |
| Vert.    | 5470.000           | PK       | 40.3              | 31.7               | 6.0          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Vert.    | 5460.000           | AV       | 32.2              | 31.7               | 6.0          | 31.9         | 0.2                 | 38.3               | 53.9              | 15.7           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

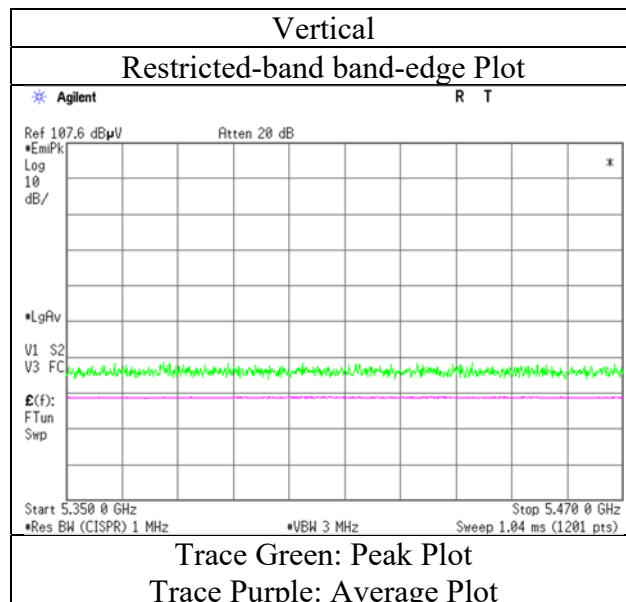
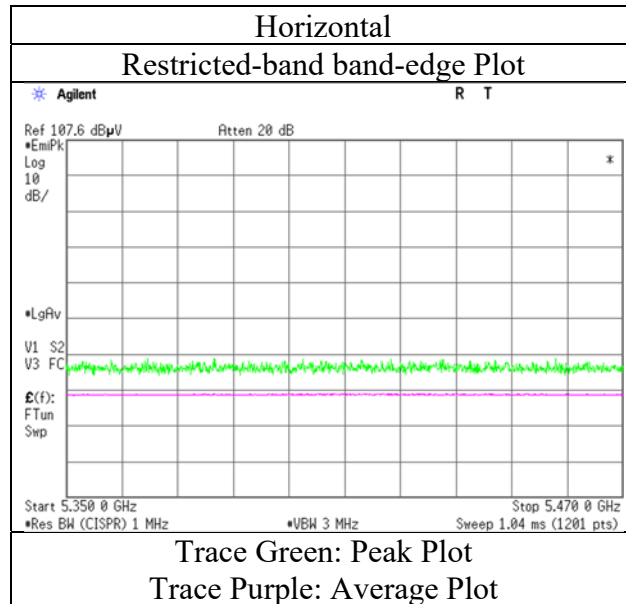
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5500 MHz (26-tone RU)        |

### RU Index 0



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

**Ise EMC Lab.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5500 MHz (52-tone RU)        |

### RU Index37

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5460.000           | PK       | 40.4              | 31.7               | 6.0          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Hori.    | 5470.000           | PK       | 40.5              | 31.7               | 6.0          | 31.9         | -                   | 46.4               | 68.2              | 21.9           |        |
| Hori.    | 5460.000           | AV       | 32.5              | 31.7               | 6.0          | 31.9         | 0.2                 | 38.6               | 53.9              | 15.4           | *1)    |
| Vert.    | 5460.000           | PK       | 40.3              | 31.7               | 6.0          | 31.9         | -                   | 46.1               | 68.2              | 22.1           |        |
| Vert.    | 5470.000           | PK       | 40.4              | 31.7               | 6.0          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Vert.    | 5460.000           | AV       | 32.5              | 31.7               | 6.0          | 31.9         | 0.2                 | 38.5               | 53.9              | 15.4           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

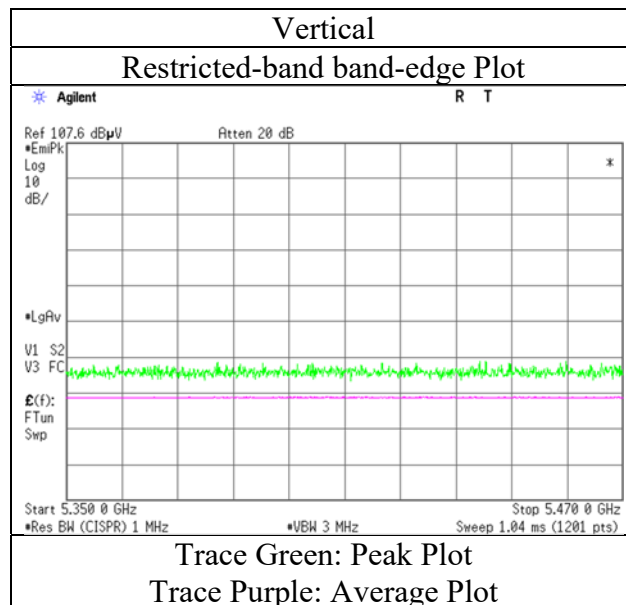
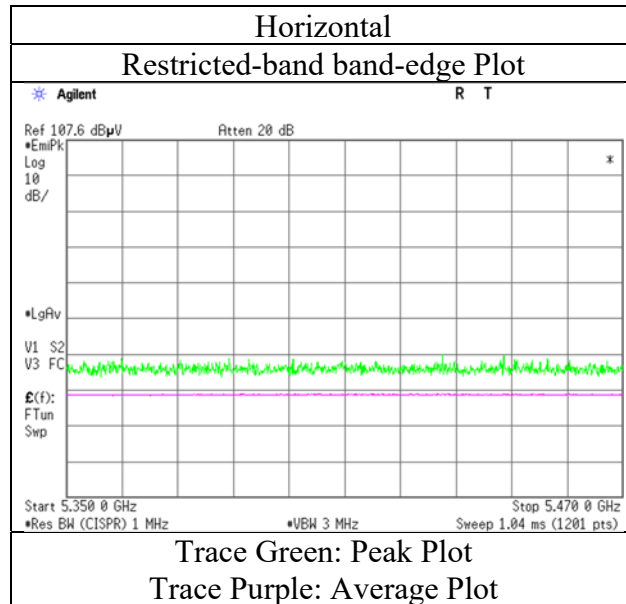
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5500 MHz (52-tone RU)        |

### RU Index37



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5500 MHz (106-tone RU)       |

### RU Index 53

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5460.000           | PK       | 40.4              | 31.7               | 6.0          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Hori.    | 5470.000           | PK       | 40.5              | 31.7               | 6.0          | 31.9         | -                   | 46.4               | 68.2              | 21.8           |        |
| Hori.    | 5460.000           | AV       | 32.5              | 31.7               | 6.0          | 31.9         | 0.2                 | 38.6               | 53.9              | 15.3           | *1)    |
| Vert.    | 5460.000           | PK       | 40.3              | 31.7               | 6.0          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Vert.    | 5470.000           | PK       | 40.4              | 31.7               | 6.0          | 31.9         | -                   | 46.3               | 68.2              | 22.0           |        |
| Vert.    | 5460.000           | AV       | 32.4              | 31.7               | 6.0          | 31.9         | 0.2                 | 38.5               | 53.9              | 15.4           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

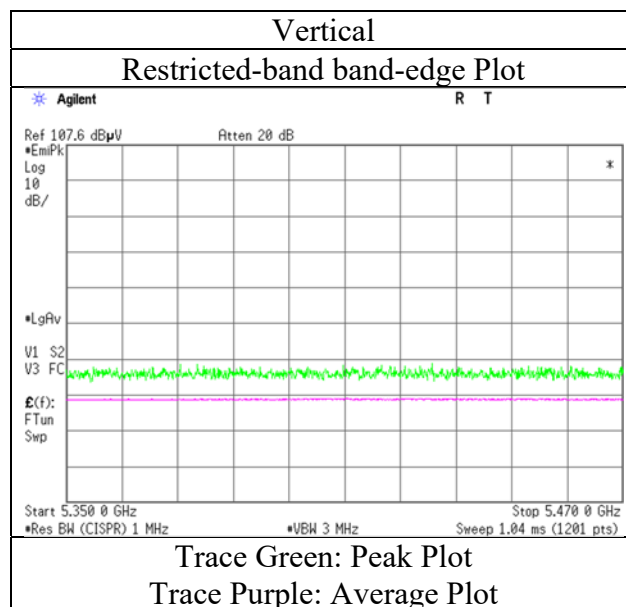
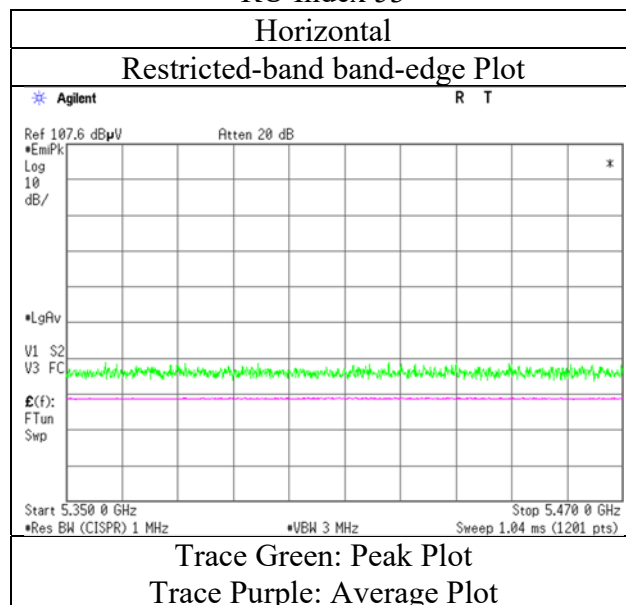
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5500 MHz (106-tone RU)       |

### RU Index 53



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date April 6, 2020  
Temperature / Humidity 20 deg. C / 27 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5500 MHz (242-tone RU)

### RU Index 61

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5460.000           | PK       | 39.7              | 31.7               | 6.1          | 31.7         | -                   | 45.8               | 68.2              | 22.4           |        |
| Hori.    | 5470.000           | PK       | 41.9              | 31.7               | 6.1          | 31.7         | -                   | 48.0               | 68.2              | 20.2           |        |
| Hori.    | 5460.000           | AV       | 32.2              | 31.7               | 6.1          | 31.7         | 0.3                 | 38.5               | 53.9              | 15.4           | *1)    |
| Vert.    | 5460.000           | PK       | 39.7              | 31.7               | 6.1          | 31.7         | -                   | 45.7               | 68.2              | 22.5           |        |
| Vert.    | 5470.000           | PK       | 40.9              | 31.7               | 6.1          | 31.7         | -                   | 47.0               | 68.2              | 21.2           |        |
| Vert.    | 5460.000           | AV       | 32.2              | 31.7               | 6.1          | 31.7         | 0.3                 | 38.5               | 53.9              | 15.4           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

**Notes**

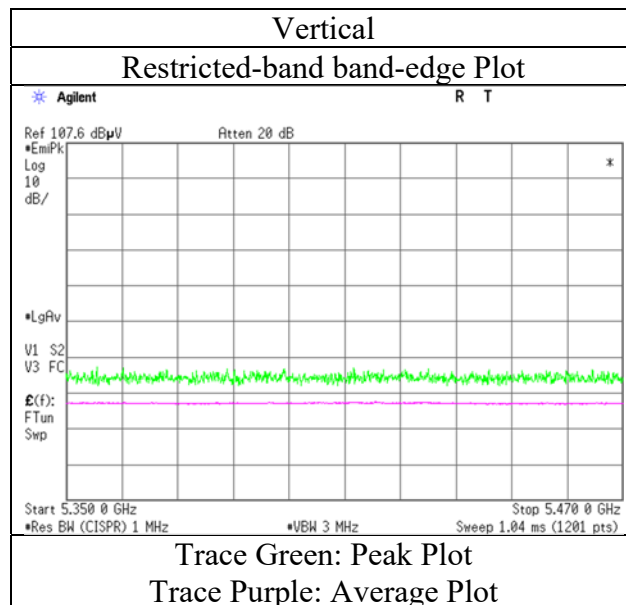
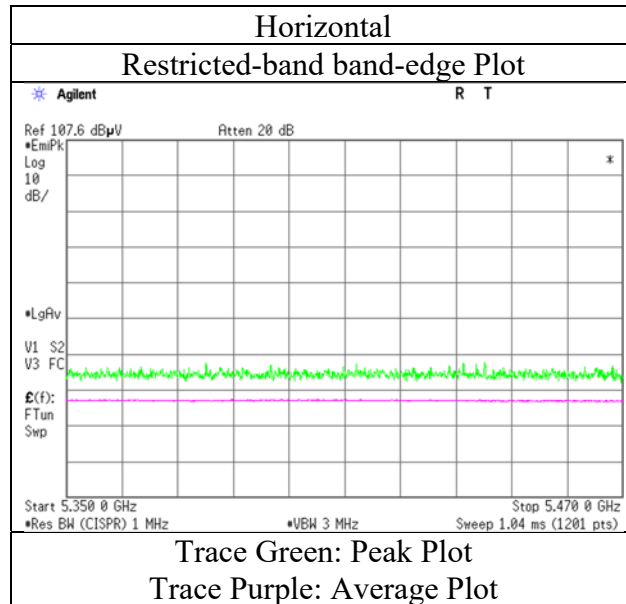
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5500 MHz (242-tone RU)       |

### RU Index 61



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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**Radiated Spurious Emission**  
(PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 27, 2020  
Temperature / Humidity 23 deg. C / 31 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5700 MHz (26-tone RU)

RU Index 8

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5725.000           | PK       | 40.3              | 32.0               | 6.1          | 31.9         | -                   | 46.5               | 68.2              | 21.8           |        |
| Vert.    | 5725.000           | PK       | 40.3              | 32.0               | 6.1          | 31.9         | -                   | 46.5               | 68.2              | 21.7           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

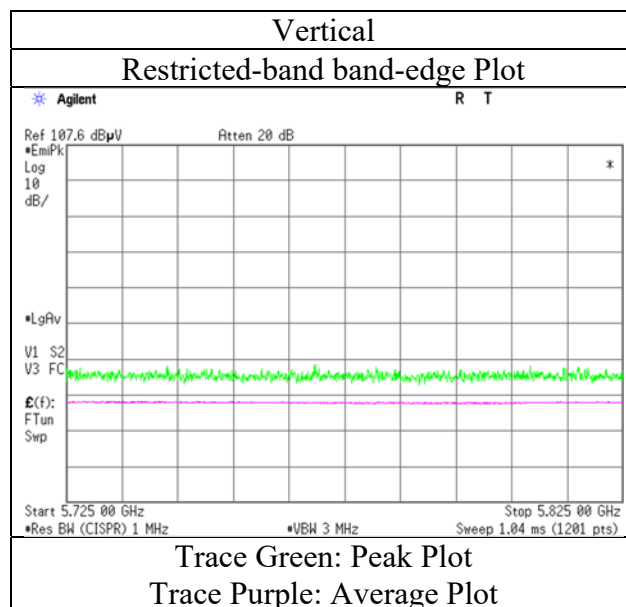
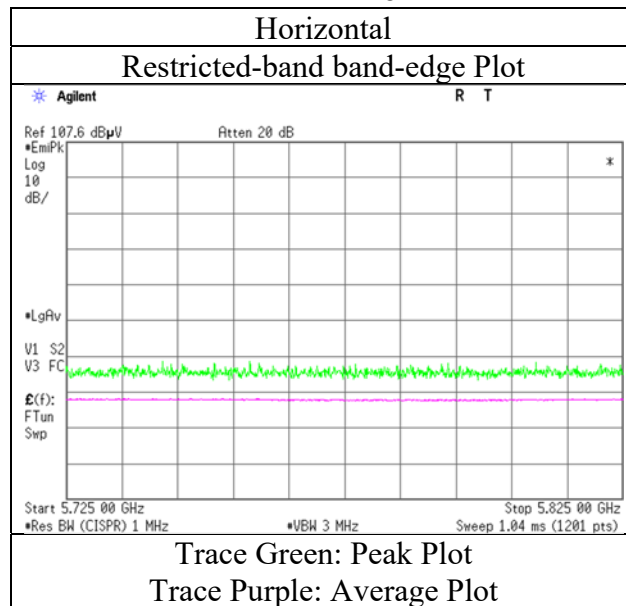
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5700 MHz (26-tone RU)        |

### RU Index 8



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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**Radiated Spurious Emission**  
**(PIFA Antenna)**

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 27, 2020  
Temperature / Humidity 23 deg. C / 31 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5700 MHz (52-tone RU)

**RU Index 40**

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5725.000           | PK       | 40.2              | 32.0               | 6.1          | 31.9         | -                   | 46.4               | 68.2              | 21.8           |        |
| Vert.    | 5725.000           | PK       | 40.2              | 32.0               | 6.1          | 31.9         | -                   | 46.4               | 68.2              | 21.8           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

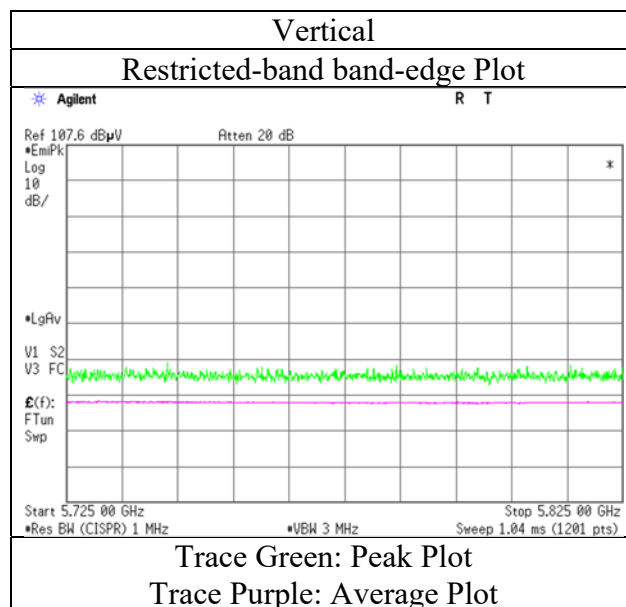
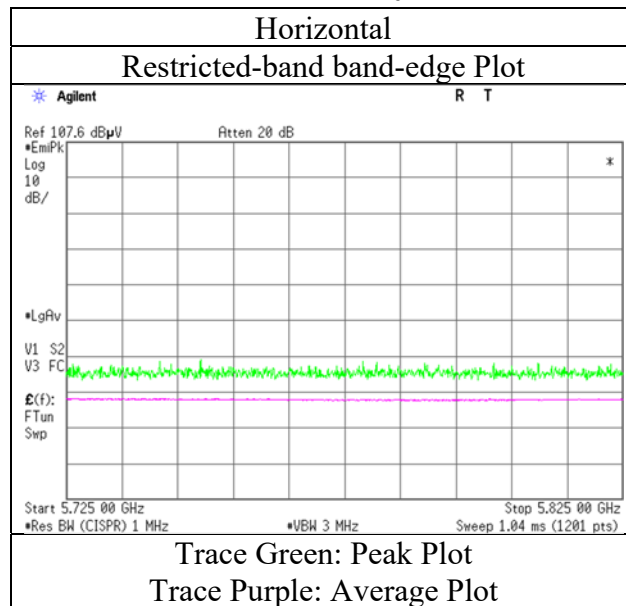
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5700 MHz(52-tone RU)         |

### RU Index 40



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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**Radiated Spurious Emission**  
(PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 27, 2020  
Temperature / Humidity 23 deg. C / 31 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5700 MHz (106-tone RU)

RU Index 54

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5725.000           | PK       | 40.3              | 32.0               | 6.1          | 31.9         | -                   | 46.4               | 68.2              | 21.8           |        |
| Vert.    | 5725.000           | PK       | 40.3              | 32.0               | 6.1          | 31.9         | -                   | 46.5               | 68.2              | 21.7           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

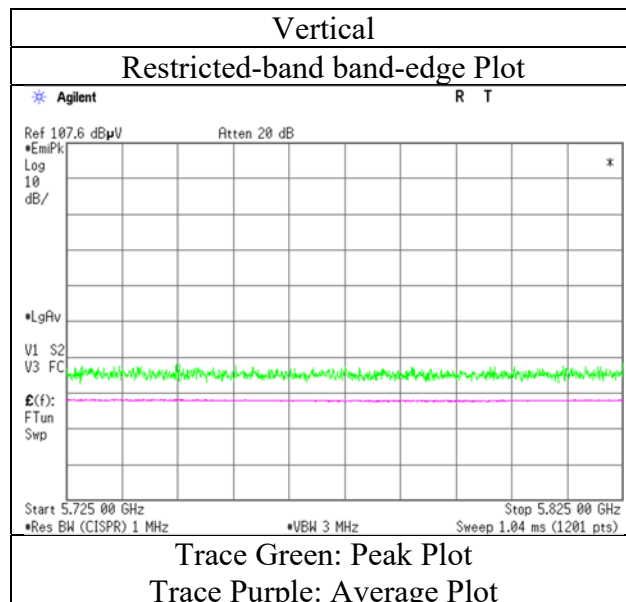
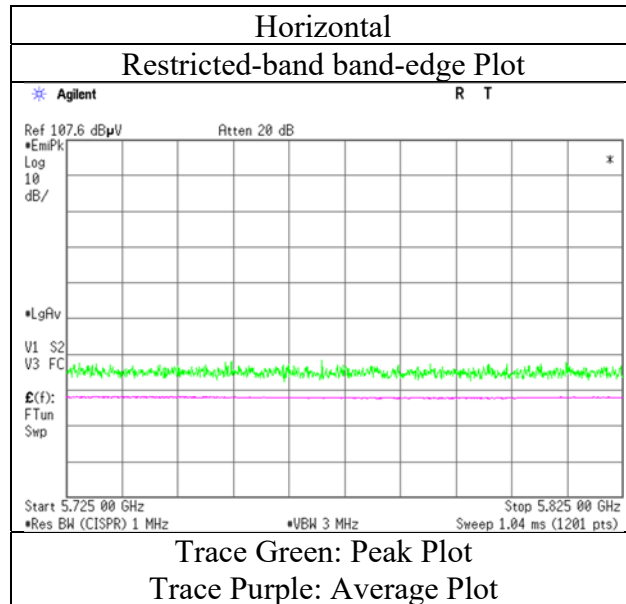
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5700 MHz (106-tone RU)       |

### RU Index 54



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-20 5700 MHz (242-tone RU)       |

RU Index 61

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5725.000           | PK       | 56.0              | 32.0               | 6.2          | 31.8         | -                   | 62.4               | 68.2              | 5.8            |        |
| Vert.    | 5725.000           | PK       | 56.9              | 32.0               | 6.2          | 31.8         | -                   | 63.2               | 68.2              | 5.0            |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

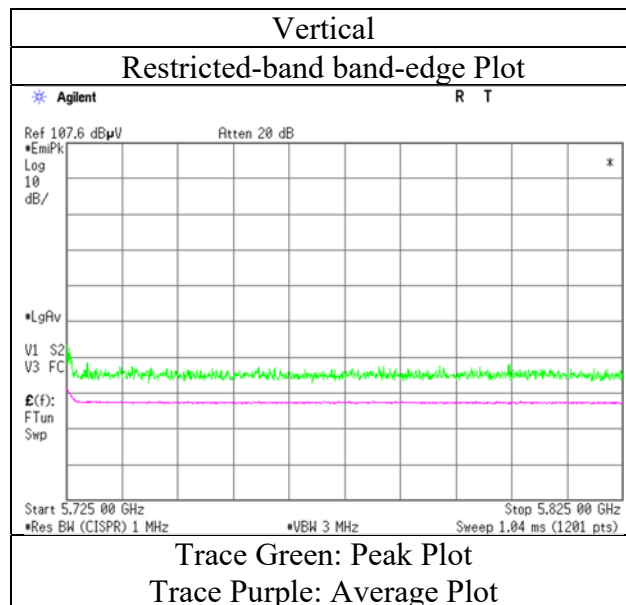
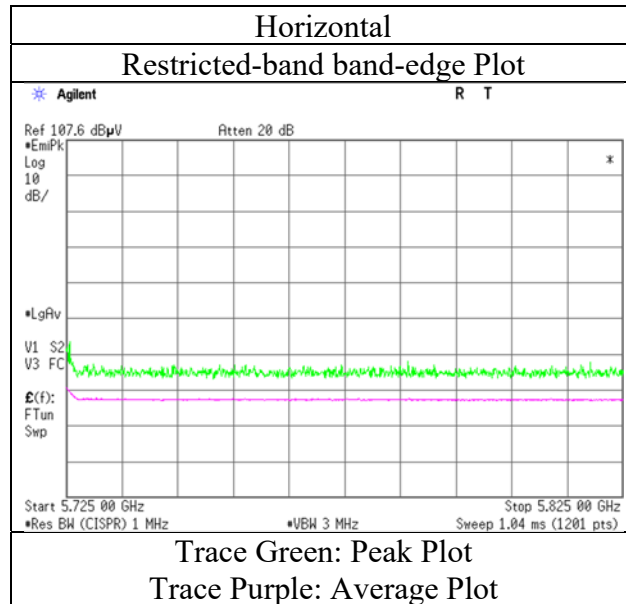
Distance factor:

1 GHz - 10 GHz     $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5700 MHz (242-tone RU)       |

### RU Index 61



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5745 MHz (26-tone RU)        |

### RU Index 0

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5650.000           | PK       | 40.3              | 31.8               | 6.1          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Hori.    | 5700.000           | PK       | 40.3              | 31.9               | 6.1          | 31.9         | -                   | 46.4               | 105.2             | 58.8           |        |
| Hori.    | 5720.000           | PK       | 40.4              | 32.0               | 6.1          | 31.9         | -                   | 46.6               | 110.8             | 64.2           |        |
| Hori.    | 5725.000           | PK       | 40.8              | 32.0               | 6.1          | 31.9         | -                   | 46.9               | 122.2             | 75.3           |        |
| Vert.    | 5650.000           | PK       | 40.2              | 31.8               | 6.1          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Vert.    | 5700.000           | PK       | 40.3              | 31.9               | 6.1          | 31.9         | -                   | 46.4               | 105.2             | 58.8           |        |
| Vert.    | 5720.000           | PK       | 40.5              | 32.0               | 6.1          | 31.9         | -                   | 46.7               | 110.8             | 64.2           |        |
| Vert.    | 5725.000           | PK       | 40.8              | 32.0               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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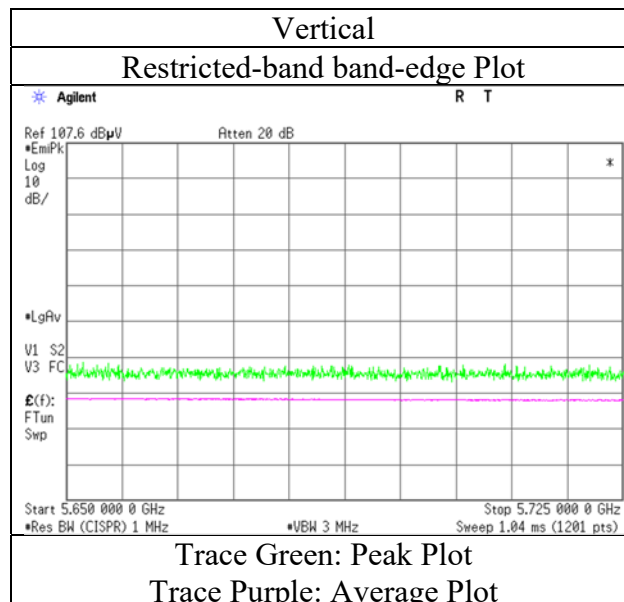
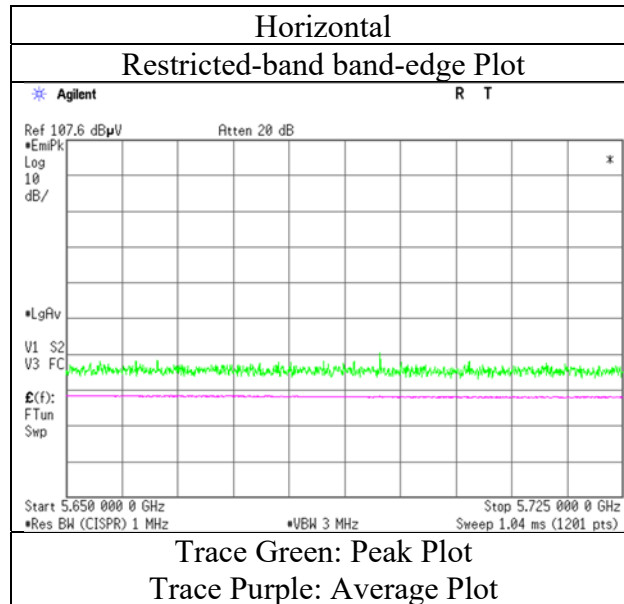
Telephone : +81 596 24 8999

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 23 deg. C / 31 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5745 MHz (26-tone RU)        |

### RU Index 0



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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Facsimile : +81 596 24 8124

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5745 MHz (52-tone RU)        |

### RU Index 37

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5650.000           | PK       | 40.3              | 31.8               | 6.1          | 31.9         | -                   | 46.3               | 68.2              | 21.9           |        |
| Hori.    | 5700.000           | PK       | 40.4              | 31.9               | 6.1          | 31.9         | -                   | 46.5               | 105.2             | 58.7           |        |
| Hori.    | 5720.000           | PK       | 40.5              | 32.0               | 6.1          | 31.9         | -                   | 46.6               | 110.8             | 64.2           |        |
| Hori.    | 5725.000           | PK       | 40.8              | 32.0               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |
| Vert.    | 5650.000           | PK       | 40.3              | 31.8               | 6.1          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Vert.    | 5700.000           | PK       | 40.3              | 31.9               | 6.1          | 31.9         | -                   | 46.4               | 105.2             | 58.8           |        |
| Vert.    | 5720.000           | PK       | 40.6              | 32.0               | 6.1          | 31.9         | -                   | 46.7               | 110.8             | 64.1           |        |
| Vert.    | 5725.000           | PK       | 40.8              | 32.0               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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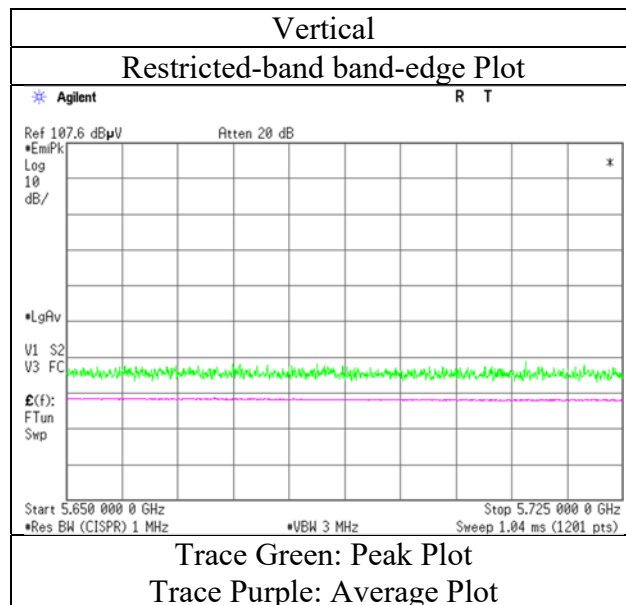
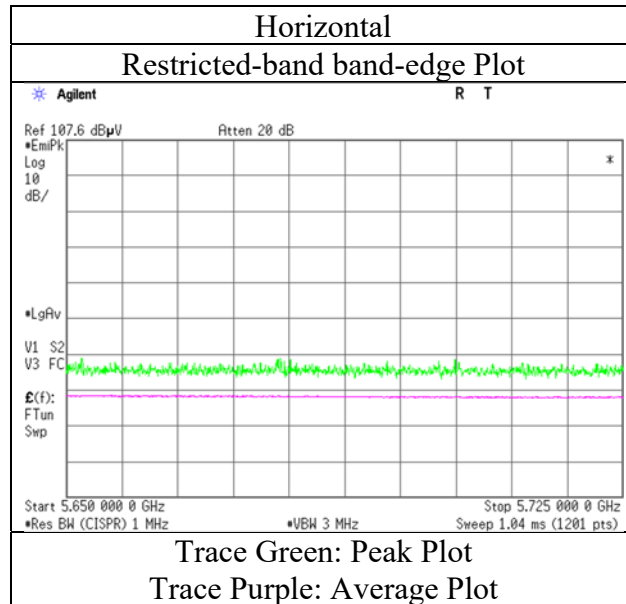
Telephone : +81 596 24 8999

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5745 MHz (52-tone RU)        |

### RU Index 37



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 27, 2020  
Temperature / Humidity 22 deg. C / 36 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5745 MHz (106-tone RU)

### RU Index 53

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5650.000           | PK       | 40.3              | 31.8               | 6.1          | 31.9         | -                   | 46.3               | 68.2              | 21.9           |        |
| Hori.    | 5700.000           | PK       | 40.7              | 31.9               | 6.1          | 31.9         | -                   | 46.8               | 105.2             | 58.5           |        |
| Hori.    | 5720.000           | PK       | 40.4              | 32.0               | 6.1          | 31.9         | -                   | 46.5               | 110.8             | 64.3           |        |
| Hori.    | 5725.000           | PK       | 40.8              | 32.0               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |
| Vert.    | 5650.000           | PK       | 40.3              | 31.8               | 6.1          | 31.9         | -                   | 46.2               | 68.2              | 22.0           |        |
| Vert.    | 5700.000           | PK       | 40.4              | 31.9               | 6.1          | 31.9         | -                   | 46.5               | 105.2             | 58.7           |        |
| Vert.    | 5720.000           | PK       | 40.5              | 32.0               | 6.1          | 31.9         | -                   | 46.7               | 110.8             | 64.1           |        |
| Vert.    | 5725.000           | PK       | 40.9              | 32.0               | 6.1          | 31.9         | -                   | 47.1               | 122.2             | 75.1           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

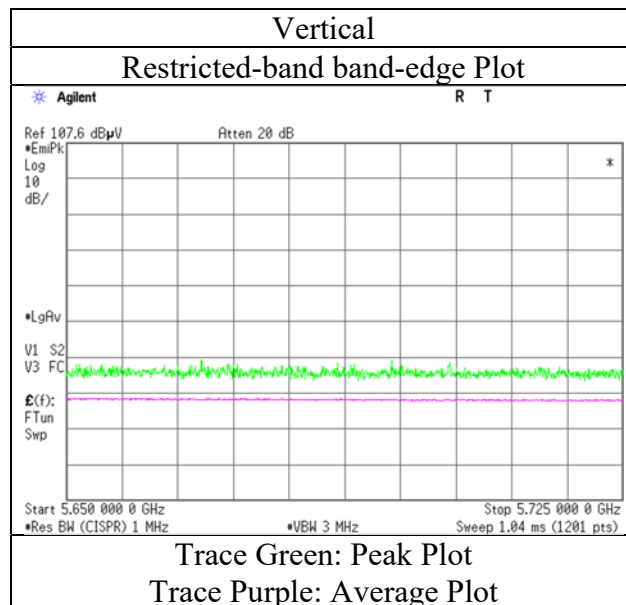
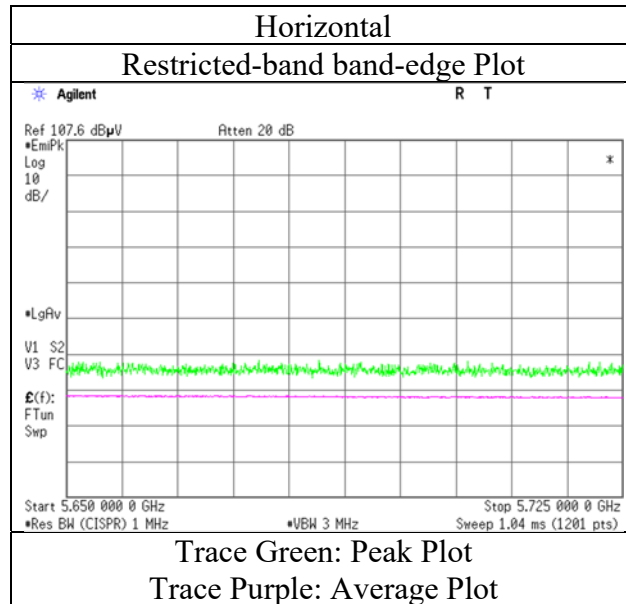
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5745 MHz (106-tone RU)       |

### RU Index 53



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-20 5745 MHz (242-tone RU)       |

### RU Index 61

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5650.000           | PK       | 39.8              | 31.8               | 6.2          | 31.8         | -                   | 45.9               | 68.2              | 22.3           |        |
| Hori.    | 5700.000           | PK       | 40.7              | 31.9               | 6.2          | 31.8         | -                   | 47.0               | 105.2             | 58.3           |        |
| Hori.    | 5720.000           | PK       | 55.6              | 32.0               | 6.2          | 31.8         | -                   | 62.0               | 110.8             | 48.8           |        |
| Hori.    | 5725.000           | PK       | 61.4              | 32.0               | 6.2          | 31.8         | -                   | 67.8               | 122.2             | 54.5           |        |
| Vert.    | 5650.000           | PK       | 40.3              | 31.8               | 6.2          | 31.8         | -                   | 46.4               | 68.2              | 21.8           |        |
| Vert.    | 5700.000           | PK       | 40.5              | 31.9               | 6.2          | 31.8         | -                   | 46.8               | 105.2             | 58.4           |        |
| Vert.    | 5720.000           | PK       | 53.4              | 32.0               | 6.2          | 31.8         | -                   | 59.7               | 110.8             | 51.1           |        |
| Vert.    | 5725.000           | PK       | 62.3              | 32.0               | 6.2          | 31.8         | -                   | 68.7               | 122.2             | 53.5           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

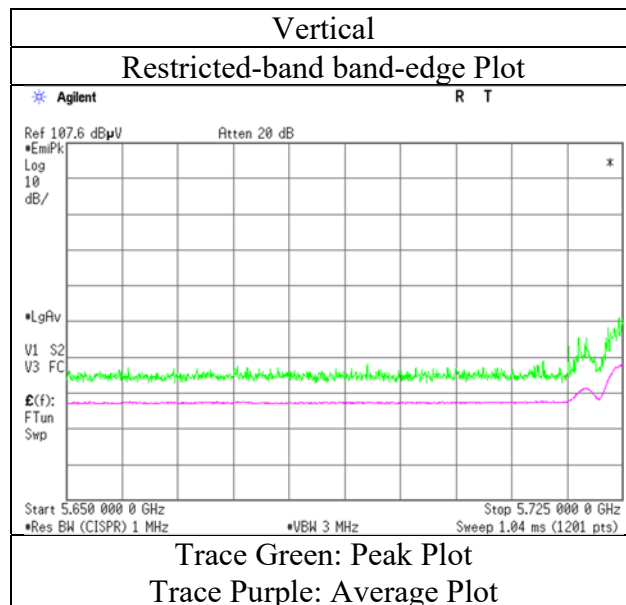
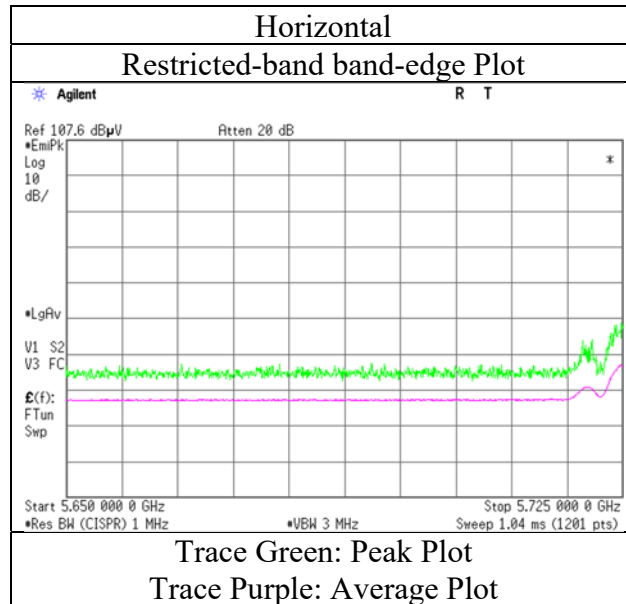
34.6

Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5745 MHz (242-tone RU)       |

### RU Index 61



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-20 5825 MHz (26-tone RU)        |

### RU Index 8

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5850.000           | PK       | 40.5              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |
| Hori.    | 5855.000           | PK       | 40.5              | 32.2               | 6.1          | 31.9         | -                   | 46.9               | 110.8             | 63.9           |        |
| Hori.    | 5875.000           | PK       | 40.4              | 32.3               | 6.2          | 31.9         | -                   | 46.8               | 105.2             | 58.4           |        |
| Hori.    | 5925.000           | PK       | 40.2              | 32.3               | 6.2          | 31.9         | -                   | 46.7               | 68.2              | 21.5           |        |
| Vert.    | 5850.000           | PK       | 40.5              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |
| Vert.    | 5855.000           | PK       | 40.4              | 32.2               | 6.1          | 31.9         | -                   | 46.9               | 110.8             | 63.9           |        |
| Vert.    | 5875.000           | PK       | 40.3              | 32.3               | 6.2          | 31.9         | -                   | 46.8               | 105.2             | 58.4           |        |
| Vert.    | 5925.000           | PK       | 40.3              | 32.3               | 6.2          | 31.9         | -                   | 46.8               | 68.2              | 21.4           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB

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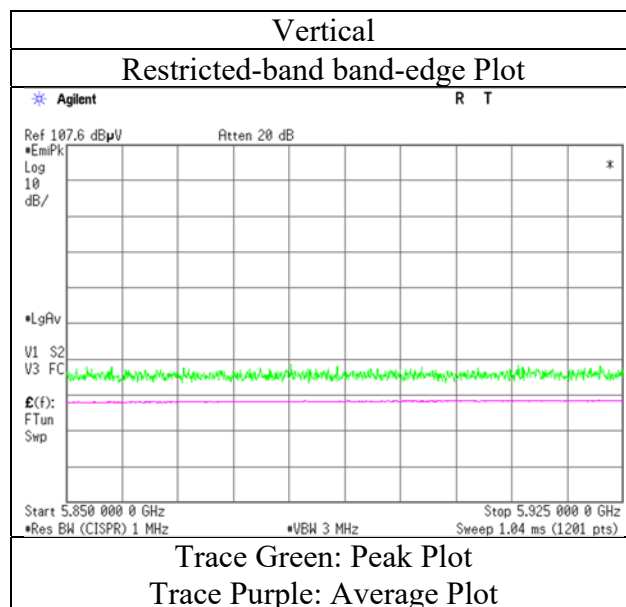
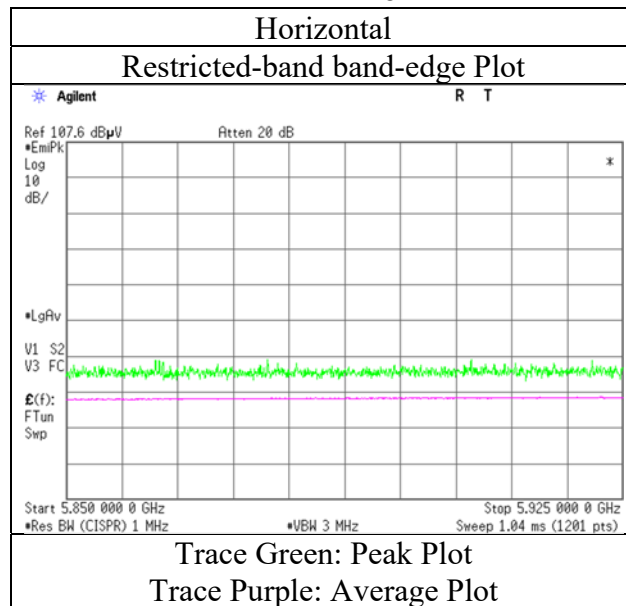
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5825 MHz (26-tone RU)        |

### RU Index 8



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-20 5825 MHz (52-tone RU)        |

### RU Index 40

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5850.000           | PK       | 40.6              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |
| Hori.    | 5855.000           | PK       | 40.5              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 110.8             | 63.9           |        |
| Hori.    | 5875.000           | PK       | 40.4              | 32.3               | 6.2          | 31.9         | -                   | 46.9               | 105.2             | 58.4           |        |
| Hori.    | 5925.000           | PK       | 40.2              | 32.3               | 6.2          | 31.9         | -                   | 46.7               | 68.2              | 21.5           |        |
| Vert.    | 5850.000           | PK       | 40.5              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |
| Vert.    | 5855.000           | PK       | 40.4              | 32.2               | 6.1          | 31.9         | -                   | 46.9               | 110.8             | 63.9           |        |
| Vert.    | 5875.000           | PK       | 40.3              | 32.3               | 6.2          | 31.9         | -                   | 46.8               | 105.2             | 58.4           |        |
| Vert.    | 5925.000           | PK       | 40.3              | 32.3               | 6.2          | 31.9         | -                   | 46.8               | 68.2              | 21.4           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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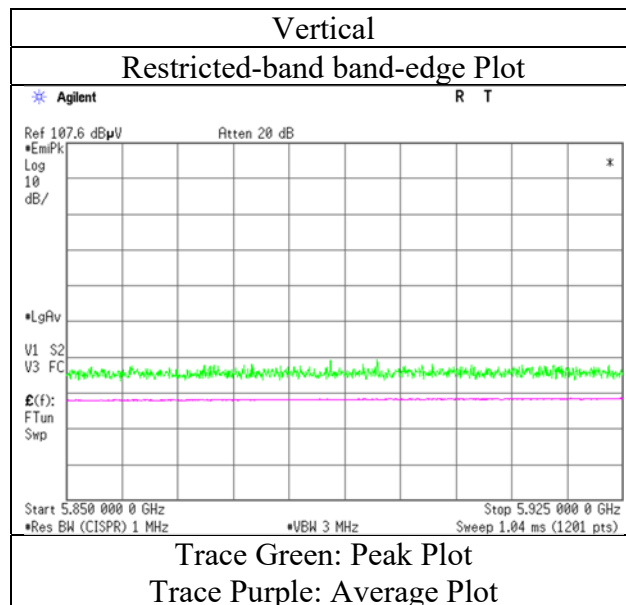
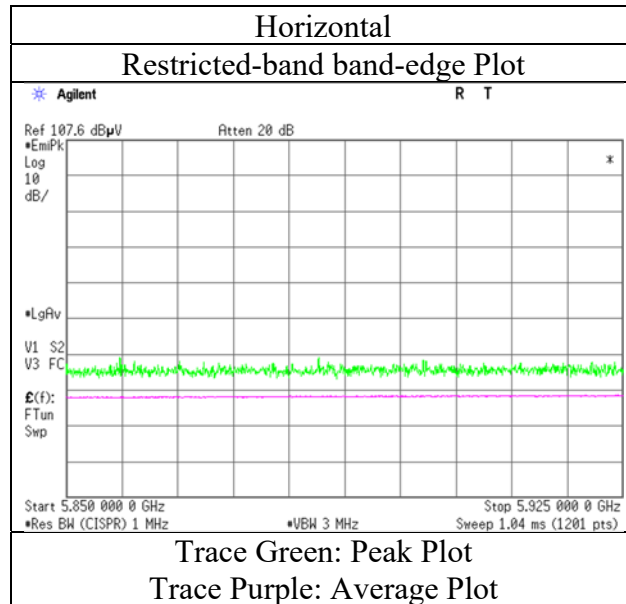
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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5825 MHz (52-tone RU)        |

### RU Index 40



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

**Ise EMC Lab.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-20 5825 MHz (106-tone RU)       |

### RU Index 54

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5850.000           | PK       | 40.6              | 32.2               | 6.1          | 31.9         | -                   | 47.1               | 122.2             | 75.1           |        |
| Hori.    | 5855.000           | PK       | 40.6              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 110.8             | 63.8           |        |
| Hori.    | 5875.000           | PK       | 40.6              | 32.3               | 6.2          | 31.9         | -                   | 47.1               | 105.2             | 58.2           |        |
| Hori.    | 5925.000           | PK       | 40.5              | 32.3               | 6.2          | 31.9         | -                   | 47.0               | 68.2              | 21.2           |        |
| Vert.    | 5850.000           | PK       | 40.5              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 122.2             | 75.2           |        |
| Vert.    | 5855.000           | PK       | 40.5              | 32.2               | 6.1          | 31.9         | -                   | 47.0               | 110.8             | 63.9           |        |
| Vert.    | 5875.000           | PK       | 40.4              | 32.3               | 6.2          | 31.9         | -                   | 46.9               | 105.2             | 58.4           |        |
| Vert.    | 5925.000           | PK       | 40.3              | 32.3               | 6.2          | 31.9         | -                   | 46.8               | 68.2              | 21.4           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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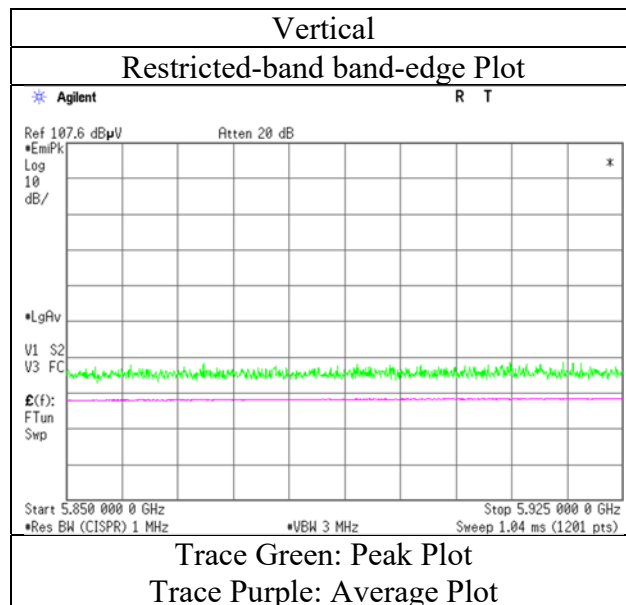
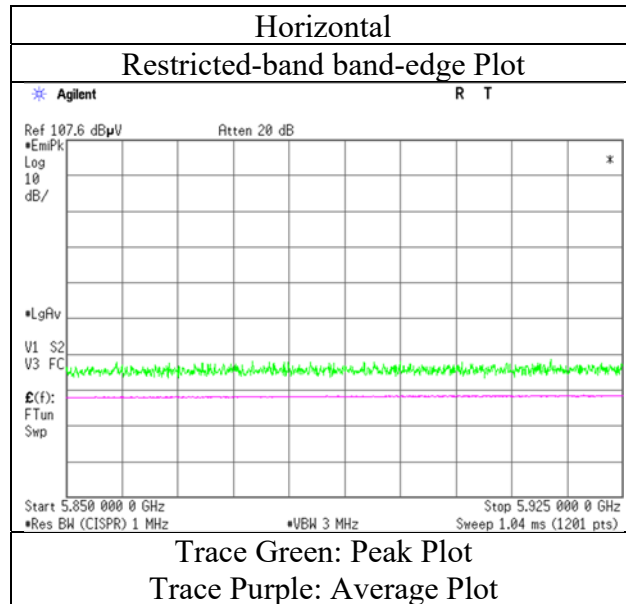
Telephone : +81 596 24 8999

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 27, 2020                       |
| Temperature / Humidity | 22 deg. C / 36 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5825 MHz (106-tone RU)       |

### RU Index 54



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date April 6, 2020  
Temperature / Humidity 20 deg. C / 27 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-20 5825 MHz (242-tone RU)

### RU Index 61

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5850.000           | PK       | 52.3              | 32.2               | 6.2          | 31.8         | -                   | 58.9               | 122.2             | 63.3           |        |
| Hori.    | 5855.000           | PK       | 47.0              | 32.2               | 6.2          | 31.8         | -                   | 53.6               | 110.8             | 57.2           |        |
| Hori.    | 5875.000           | PK       | 40.1              | 32.3               | 6.3          | 31.8         | -                   | 46.7               | 105.2             | 58.5           |        |
| Hori.    | 5925.000           | PK       | 40.1              | 32.3               | 6.3          | 31.9         | -                   | 46.8               | 68.2              | 21.4           |        |
| Vert.    | 5850.000           | PK       | 54.9              | 32.2               | 6.2          | 31.8         | -                   | 61.6               | 122.2             | 60.6           |        |
| Vert.    | 5855.000           | PK       | 50.0              | 32.2               | 6.2          | 31.8         | -                   | 56.7               | 110.8             | 54.1           |        |
| Vert.    | 5875.000           | PK       | 41.2              | 32.3               | 6.3          | 31.8         | -                   | 47.9               | 105.2             | 57.3           |        |
| Vert.    | 5925.000           | PK       | 40.8              | 32.3               | 6.3          | 31.9         | -                   | 47.5               | 68.2              | 20.7           |        |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

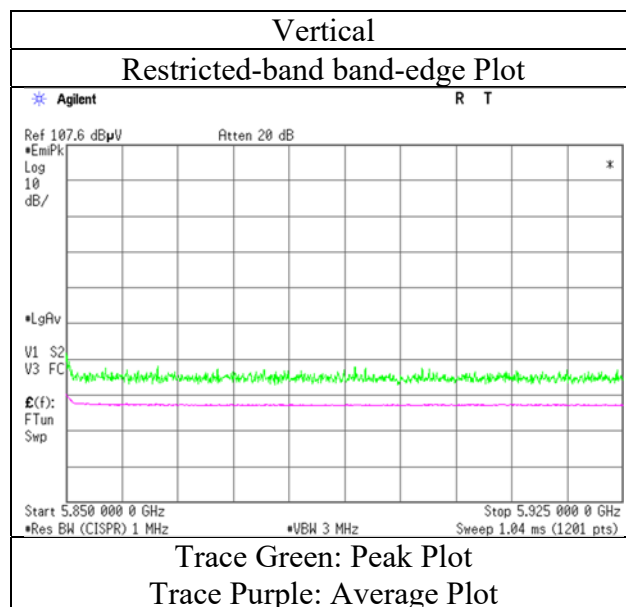
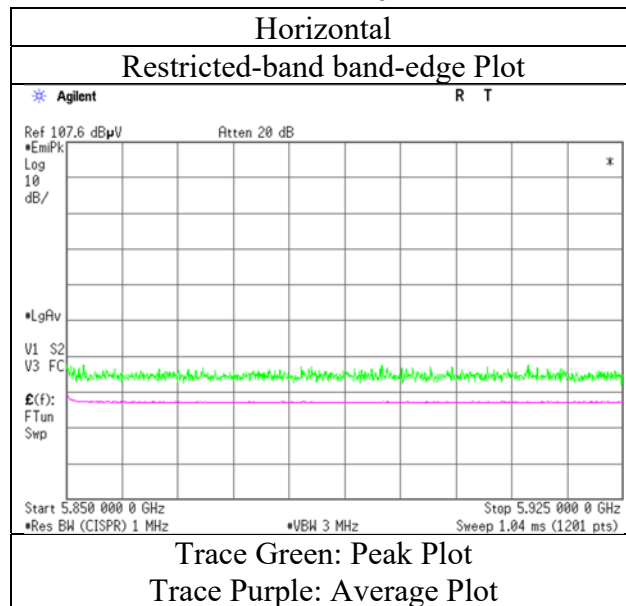
34.6

Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | April 6, 2020                           |
| Temperature / Humidity | 20 deg. C / 27 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-20 5825 MHz (242-tone RU)       |

### RU Index 61



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-40 5190 MHz (26-tone RU)        |

### RU Index 0

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.4              | 31.7               | 5.9          | 31.8         | -                   | 46.2               | 73.9              | 27.7           |        |
| Hori.    | 5150.000           | AV       | 32.1              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.1               | 53.9              | 15.8           | *1)    |
| Vert.    | 5150.000           | PK       | 40.5              | 31.7               | 5.9          | 31.8         | -                   | 46.3               | 73.9              | 27.6           |        |
| Vert.    | 5150.000           | AV       | 32.2              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.2               | 53.9              | 15.7           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

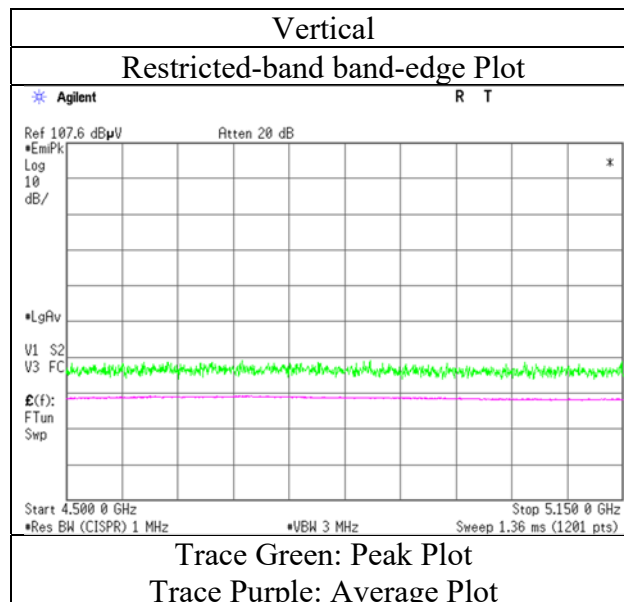
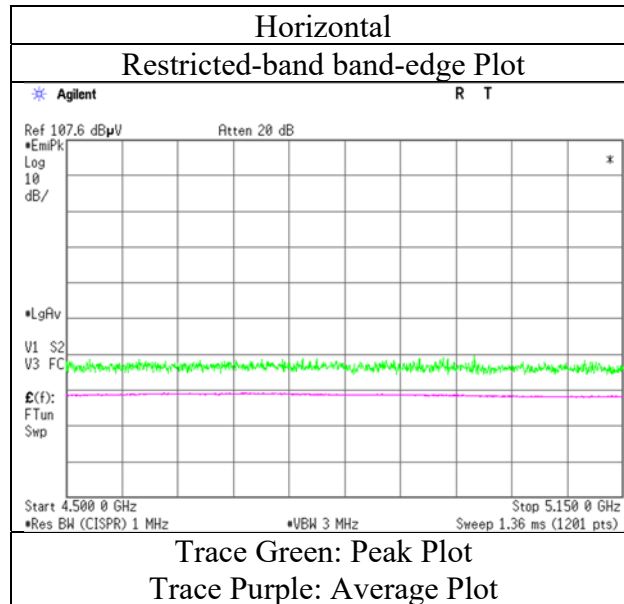
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-40 5190 MHz (26-tone RU)        |

### RU Index 0



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-40 5190 MHz (52-tone RU)        |

### RU Index 37

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.4              | 31.7               | 5.9          | 31.8         | -                   | 46.2               | 73.9              | 27.7           |        |
| Hori.    | 5150.000           | AV       | 32.2              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.2               | 53.9              | 15.7           | *1)    |
| Vert.    | 5150.000           | PK       | 40.7              | 31.7               | 5.9          | 31.8         | -                   | 46.5               | 73.9              | 27.4           |        |
| Vert.    | 5150.000           | AV       | 32.2              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.2               | 53.9              | 15.7           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

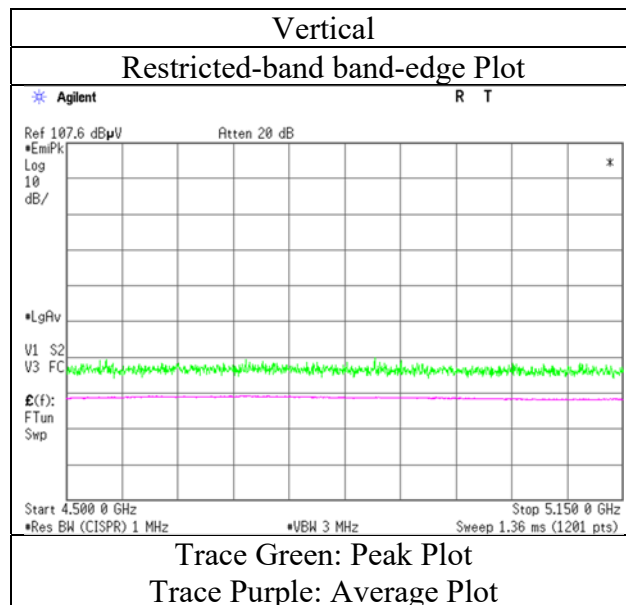
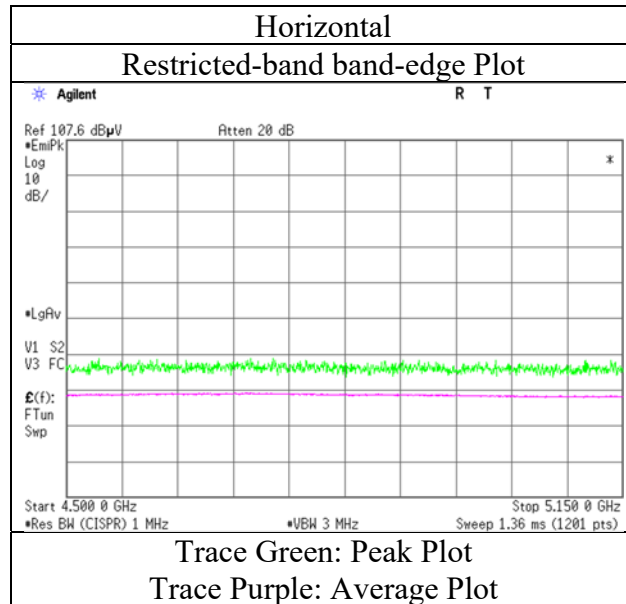
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission (Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-40 5190 MHz (52-tone RU)        |

### RU Index 37



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-40 5190 MHz (106-tone RU)       |

### RU Index 53

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.4              | 31.7               | 5.9          | 31.8         | -                   | 46.2               | 73.9              | 27.8           |        |
| Hori.    | 5150.000           | AV       | 32.3              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.4               | 53.9              | 15.6           | *1)    |
| Vert.    | 5150.000           | PK       | 40.7              | 31.7               | 5.9          | 31.8         | -                   | 46.5               | 73.9              | 27.4           |        |
| Vert.    | 5150.000           | AV       | 32.6              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.6               | 53.9              | 15.3           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

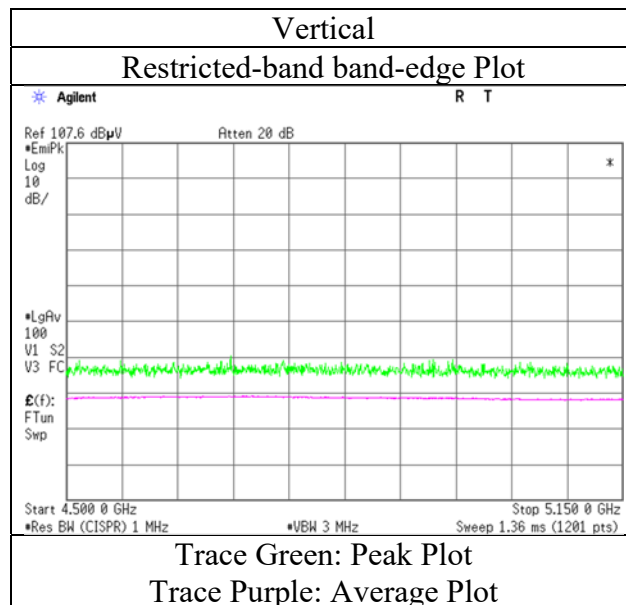
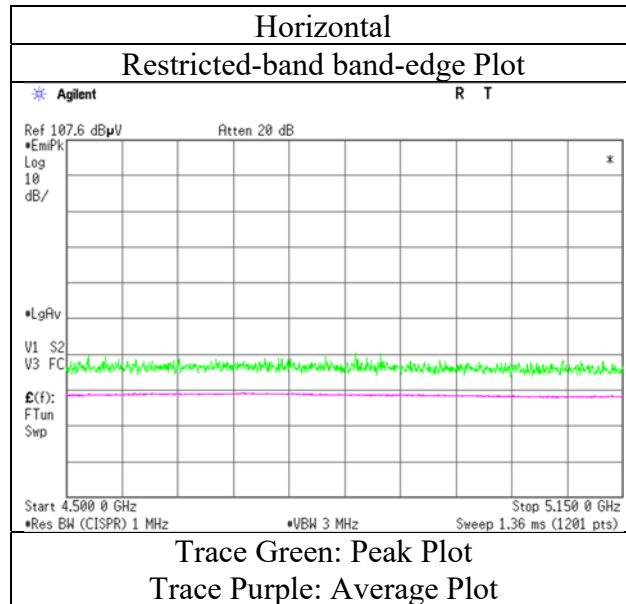
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-40 5190 MHz (106-tone RU)       |

### RU Index 53



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya<br>(1 GHz - 10 GHz)         |
| Mode                   | Tx 11ax-40 5190 MHz (242-tone RU)       |

### RU Index 61

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 40.8              | 31.7               | 5.9          | 31.8         | -                   | 46.6               | 73.9              | 27.3           |        |
| Hori.    | 5150.000           | AV       | 32.5              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.5               | 53.9              | 15.4           | *1)    |
| Vert.    | 5150.000           | PK       | 40.9              | 31.7               | 5.9          | 31.8         | -                   | 46.7               | 73.9              | 27.2           |        |
| Vert.    | 5150.000           | AV       | 32.7              | 31.7               | 5.9          | 31.8         | 0.2                 | 38.7               | 53.9              | 15.2           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

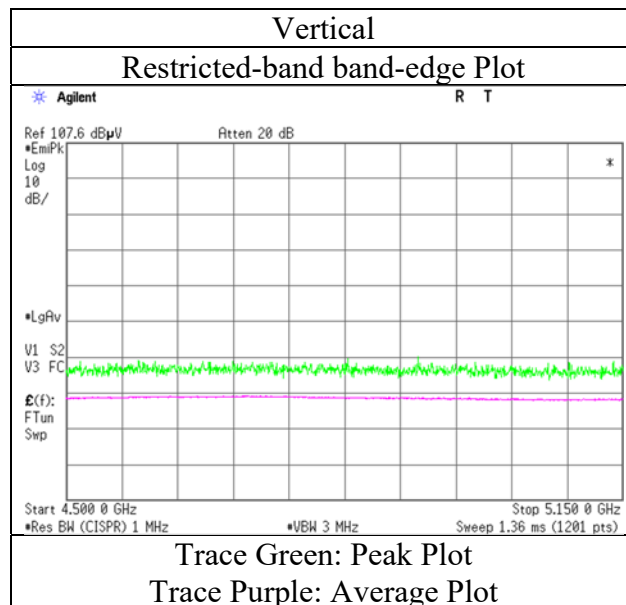
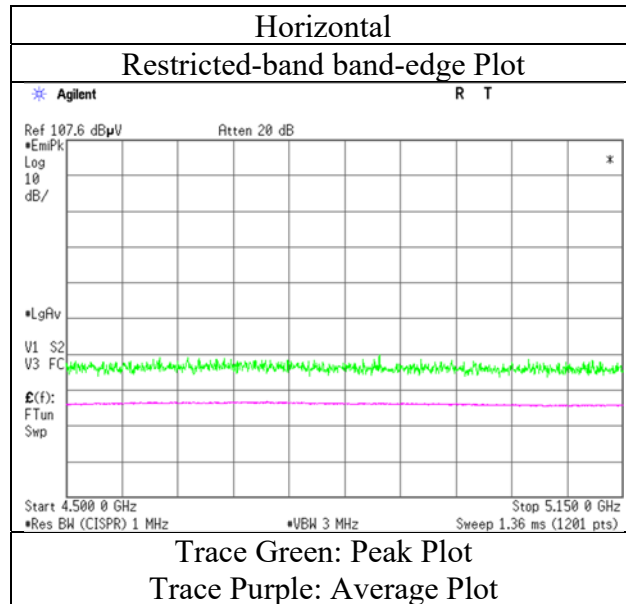
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-40 5190 MHz (242-tone RU)       |

### RU Index 61



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date April 7, 2020  
Temperature / Humidity 21 deg. C / 25 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-40 5190 MHz (484-tone RU)

### RU Index 65

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5150.000           | PK       | 51.6              | 31.7               | 6.0          | 31.6         | -                   | 57.7               | 73.9              | 16.2           |        |
| Hori.    | 5150.000           | AV       | 39.4              | 31.7               | 6.0          | 31.6         | 0.3                 | 45.7               | 53.9              | 8.2            | *1)    |
| Vert.    | 5150.000           | PK       | 50.6              | 31.7               | 6.0          | 31.6         | -                   | 56.6               | 73.9              | 17.3           |        |
| Vert.    | 5150.000           | AV       | 40.2              | 31.7               | 6.0          | 31.6         | 0.3                 | 46.5               | 53.9              | 7.5            | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

3.4.4

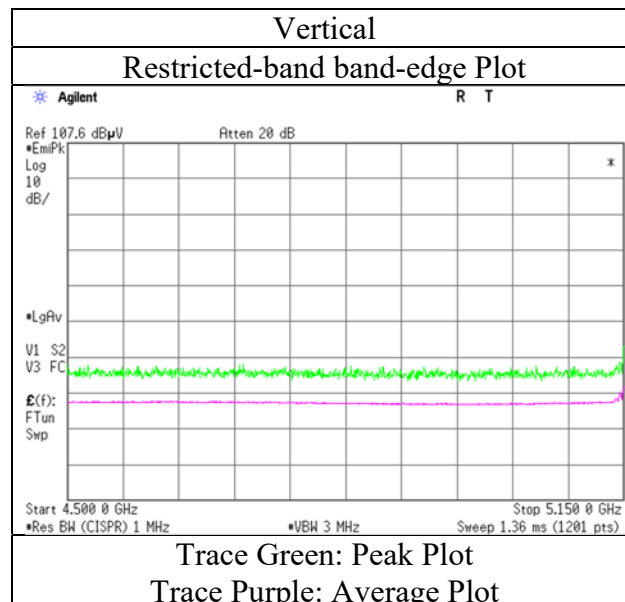
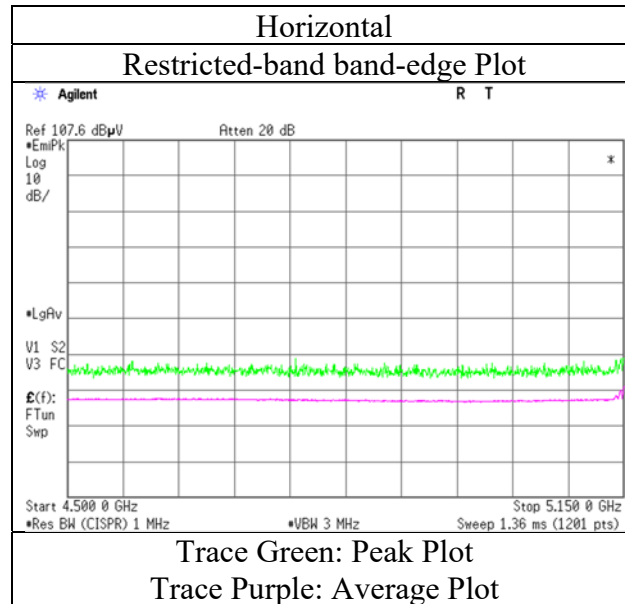
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date April 7, 2020  
Temperature / Humidity 21 deg. C / 25 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-40 5190 MHz (484-tone RU)

### RU Index 65



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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**Radiated Spurious Emission**  
(PIFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 21, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-40 5310 MHz (26-tone RU)

RU Index 17

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5350.000           | PK       | 40.7              | 31.5               | 6.0          | 31.8         | -                   | 46.3               | 73.9              | 27.6           |        |
| Hori.    | 5350.000           | AV       | 30.6              | 31.5               | 6.0          | 31.8         | 2.3                 | 38.5               | 53.9              | 15.4           | *1)    |
| Vert.    | 5350.000           | PK       | 40.7              | 31.5               | 6.0          | 31.8         | -                   | 46.2               | 73.9              | 27.7           |        |
| Vert.    | 5350.000           | AV       | 30.7              | 31.5               | 6.0          | 31.8         | 2.3                 | 38.6               | 53.9              | 15.3           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

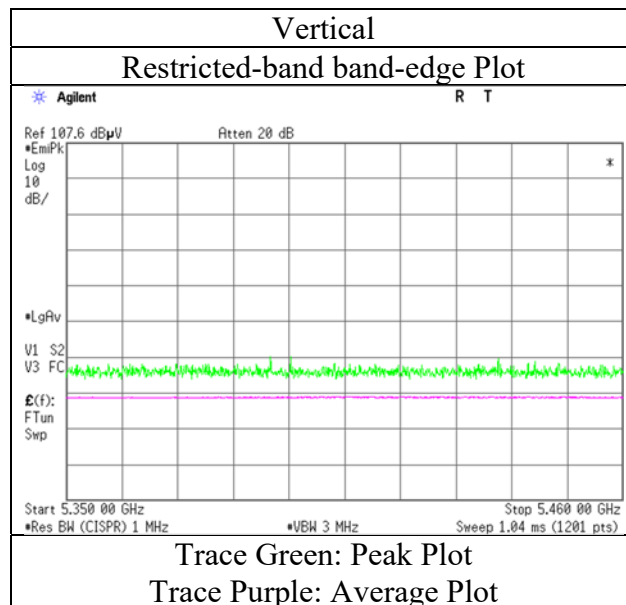
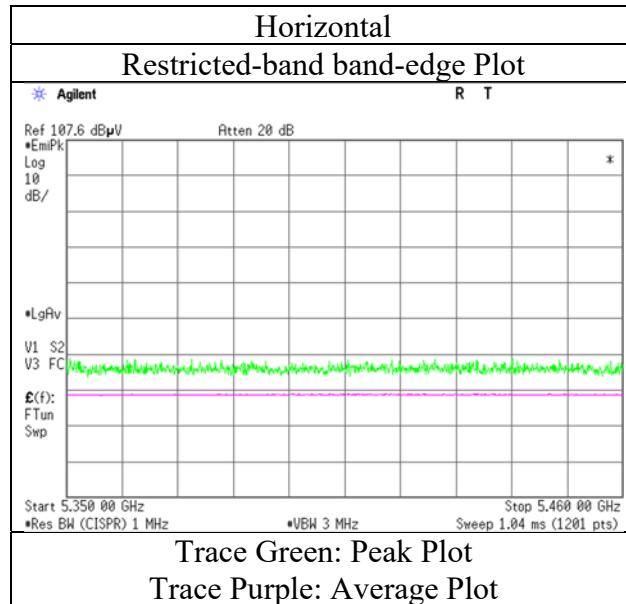
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-40 5310 MHz (26-tone RU)        |

### RU Index 17



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission (PIFA Antenna)

|                        |                                         |
|------------------------|-----------------------------------------|
| Report No.             | 13170804H                               |
| Test place             | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date                   | February 21, 2020                       |
| Temperature / Humidity | 23 deg. C / 28 % RH                     |
| Engineer               | Yuta Moriya                             |
|                        | (1 GHz - 10 GHz)                        |
| Mode                   | Tx 11ax-40 5310 MHz (52-tone RU)        |

### RU Index 44

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori.    | 5350.000           | PK       | 41.0              | 31.5               | 6.0          | 31.8         | -                   | 46.6               | 73.9              | 27.3           |        |
| Hori.    | 5350.000           | AV       | 30.7              | 31.5               | 6.0          | 31.8         | 2.3                 | 38.5               | 53.9              | 15.4           | *1)    |
| Vert.    | 5350.000           | PK       | 40.7              | 31.5               | 6.0          | 31.8         | -                   | 46.3               | 73.9              | 27.6           |        |
| Vert.    | 5350.000           | AV       | 30.9              | 31.5               | 6.0          | 31.8         | 2.3                 | 38.8               | 53.9              | 15.1           | *1)    |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

\*1) Not Out of Band emission(Leakage Power)

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