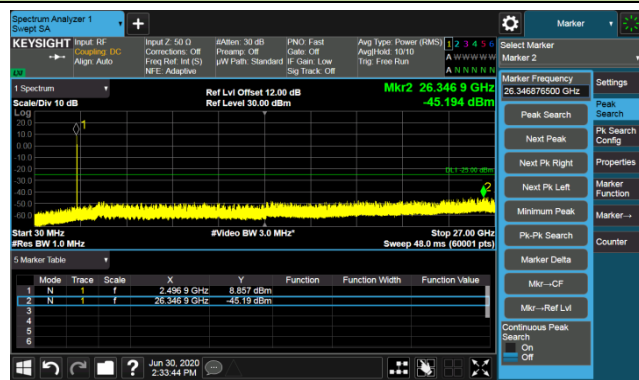


## 10+15MHz Channel Bandwidth

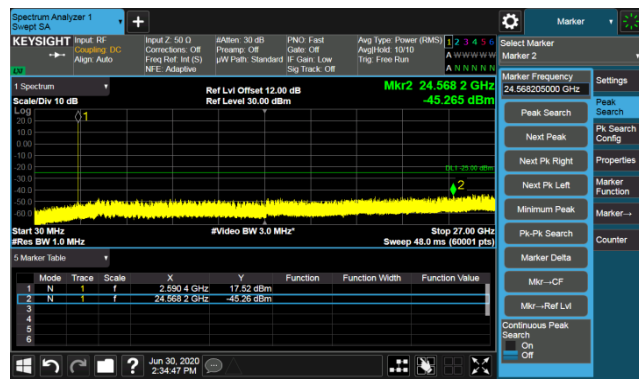
## Lowest Channel



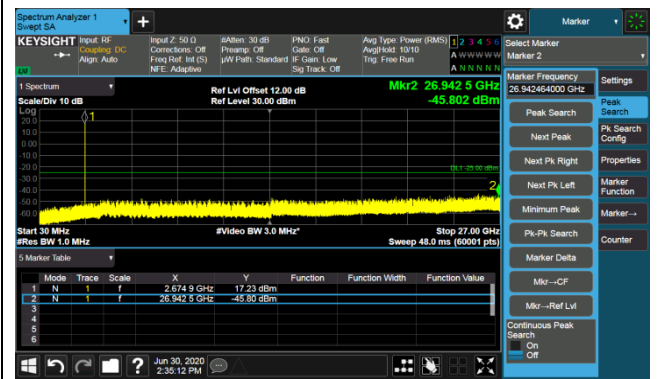
## Middle Channel/1RB@0 and 1RB@74



## Middle Channel/1RB@49 and 1RB@0

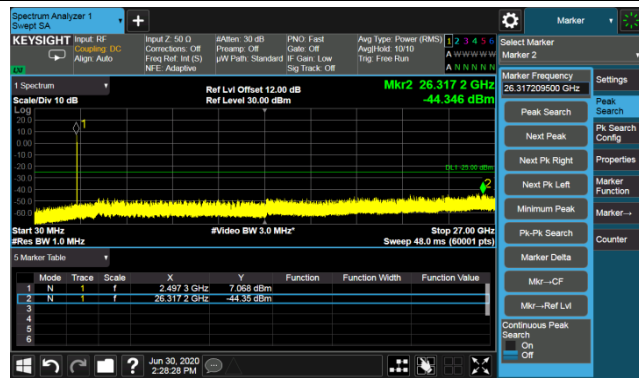


## Highest Channel

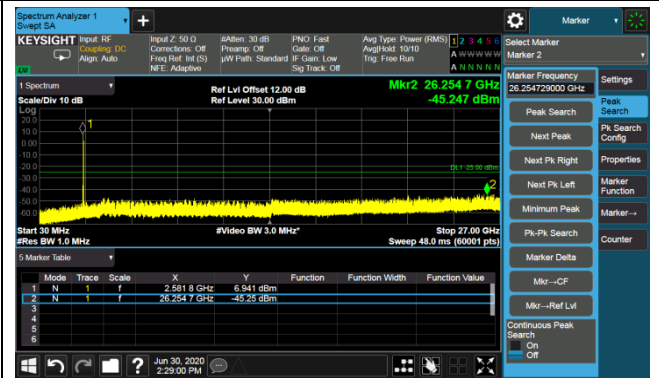


## 5+20MHz Channel Bandwidth

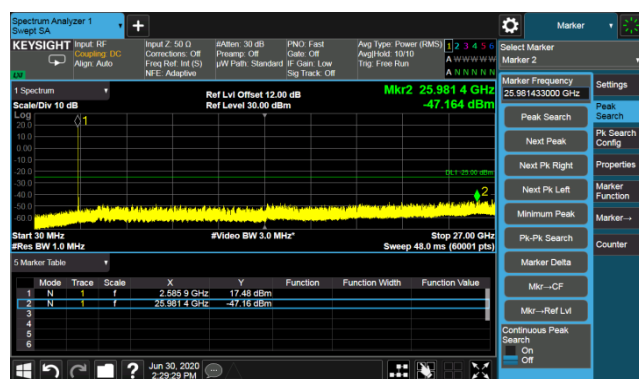
## Lowest Channel



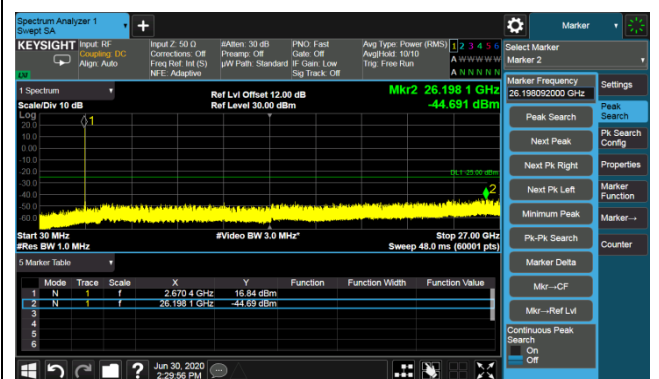
## Middle Channel/1RB@0 and 1RB@99



## Middle Channel/1RB@24 and 1RB@0



## Highest Channel



|           |                         |               |           |
|-----------|-------------------------|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module | Test Engineer | Candy Luo |
| Test Date | 2020/06/16              | Test Site     | SR6       |
| Test Band | Band 41 For HPUE        | Test Result   | Pass      |

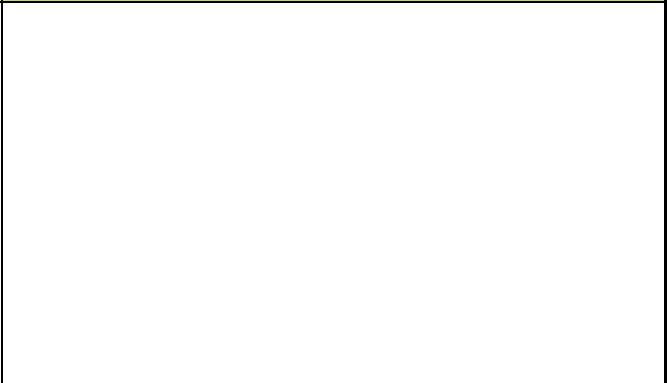
| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 39675   | 2498.50         | 5                       | 30 ~ 27000            | -43.58                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 5                       | 30 ~ 27000            | -43.47                       | ≤ -25.00    | Pass   |
| 40565   | 2687.50         | 5                       | 30 ~ 27000            | -44.32                       | ≤ -25.00    | Pass   |
| 39700   | 2501.00         | 10                      | 30 ~ 27000            | -44.07                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 10                      | 30 ~ 27000            | -42.89                       | ≤ -25.00    | Pass   |
| 41540   | 2685.00         | 10                      | 30 ~ 27000            | -44.16                       | ≤ -25.00    | Pass   |
| 39725   | 2503.50         | 15                      | 30 ~ 27000            | -43.46                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 15                      | 30 ~ 27000            | -43.68                       | ≤ -25.00    | Pass   |
| 41515   | 2682.50         | 15                      | 30 ~ 27000            | -43.17                       | ≤ -25.00    | Pass   |
| 39750   | 2506.00         | 20                      | 30 ~ 27000            | -44.84                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 20                      | 30 ~ 27000            | -44.08                       | ≤ -25.00    | Pass   |
| 41490   | 2680.00         | 20                      | 30 ~ 27000            | -43.91                       | ≤ -25.00    | Pass   |

## 5MHz Channel Bandwidth

## Channel 39675 (2498.5MHz)



## Channel 40620 (2593MHz)



## Channel 40565 (2687.5MHz)



## 10MHz Channel Bandwidth

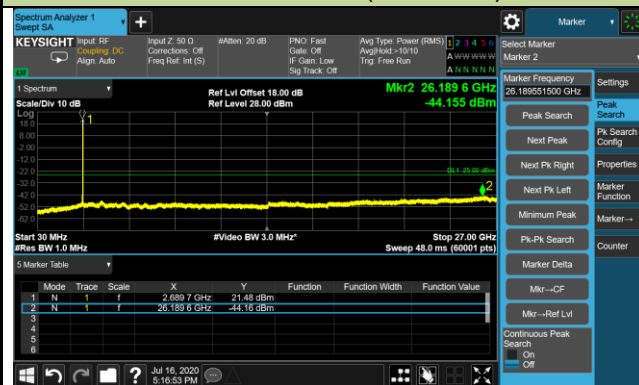
## Channel 39700 (2501MHz)



## Channel 40620 (2593MHz)

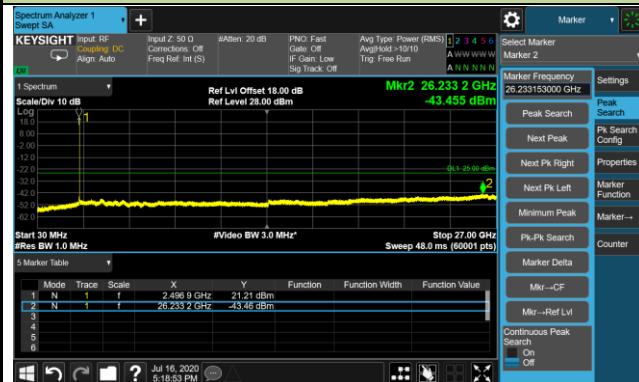


## Channel 41540 (2685MHz)

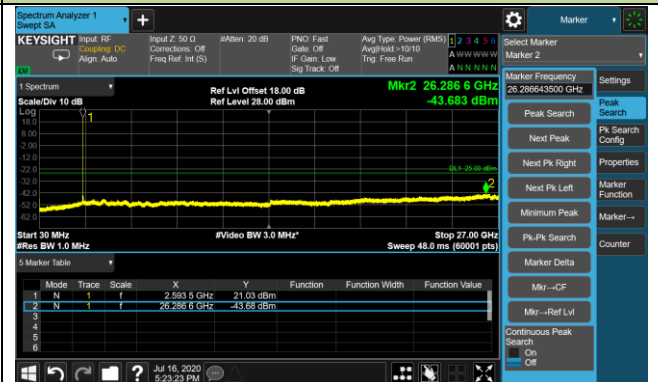


## 15MHz Channel Bandwidth

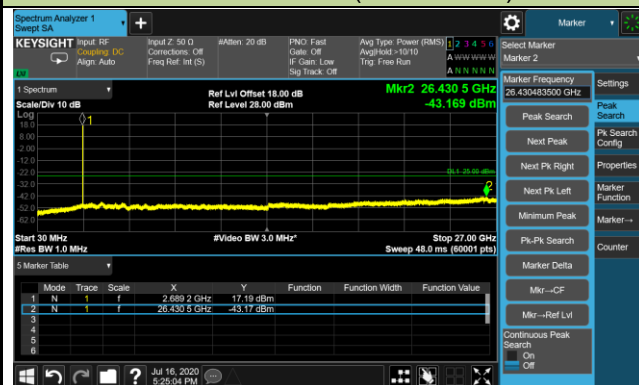
## Channel 39725 (2503.5MHz)



## Channel 40620 (2593MHz)

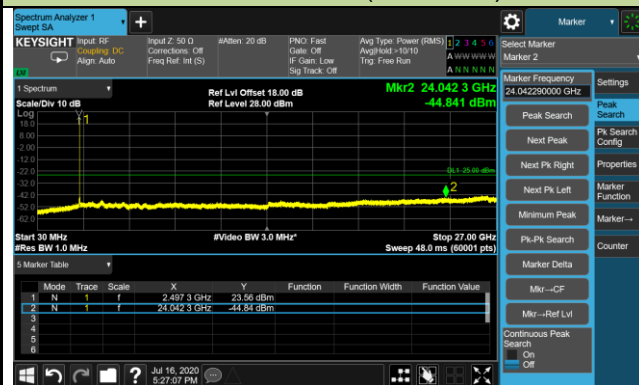


## Channel 41515 (2682.5MHz)



## 20MHz Channel Bandwidth

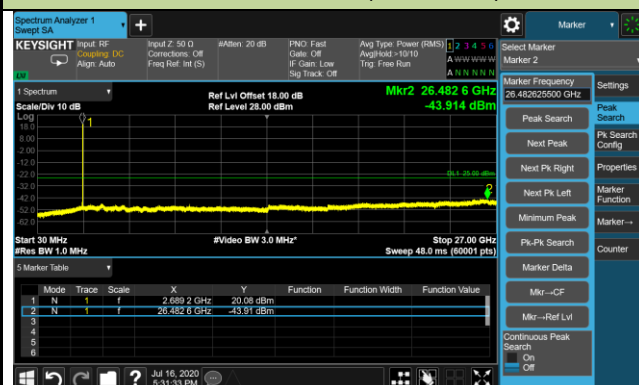
## Channel 39750 (2506MHz)



## Channel 40620 (2593MHz)



## Channel 41490 (2680MHz)



## 5.8. Radiated Spurious Emissions Measurements

### 5.8.1. Test Limit

Out of band emissions: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

For Band 7, 38/41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB. The emission limit equal to -25dBm.

For LTE Band 13, For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

$E$  (dB $\mu$ V/m) = EIRP (dBm) - 20 log D + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dB $\mu$ V/m or 70.3dB $\mu$ V/m.

### 5.8.2. Test Procedure Used

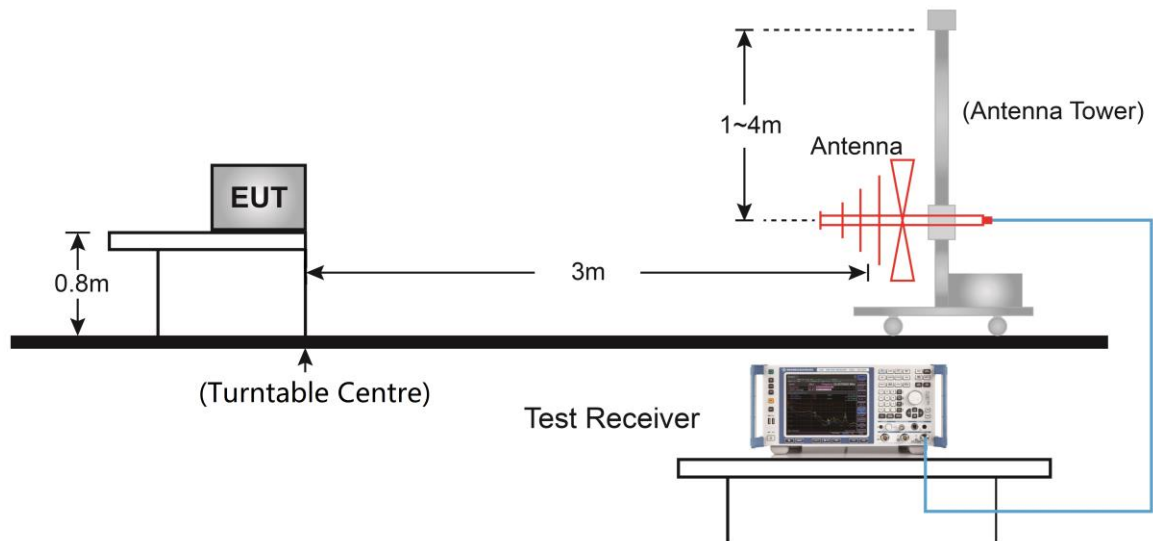
ANSI C63.26-2015 - Section 5.2.7 & 5.5

### 5.8.3. Test Setting

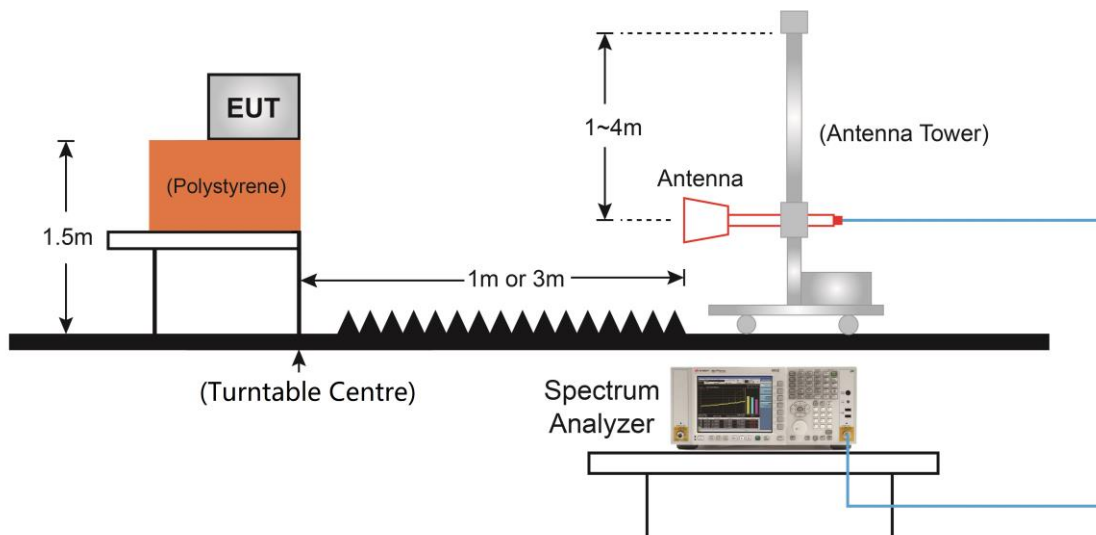
1. RBW = 1MHz
2. VBW  $\geq$  3\*RBW
3. Sweep time  $\geq$  10  $\times$  (number of points in sweep)  $\times$  (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

### 5.8.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



**5.8.5. Test Result**

|           |   |               |           |
|-----------|---|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                     | Test Engineer | Buter Shi |
| Test Date | 2020/07/02                                  | Test Site     | AC1       |
| Test Mode | LTE Band 2/25 - 1.4MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)                    | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------------------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| <b>Bottom CH 26047 (1850.7MHz)</b> |                      |             |                       |                |             |          |              |
| 330.2                              | 24.4                 | 15.7        | 40.1                  | 82.3           | -42.2       | Peak     | Horizontal   |
| 372.4                              | 34.1                 | 16.6        | 50.8                  | 82.3           | -31.5       | Peak     | Horizontal   |
| 35.8                               | 30.8                 | 13.5        | 44.3                  | 82.3           | -38.0       | Peak     | Vertical     |
| 371.4                              | 23.2                 | 16.6        | 39.7                  | 82.3           | -42.6       | Peak     | Vertical     |
| 9517.0                             | 36.3                 | 14.8        | 51.1                  | 82.3           | -31.2       | Peak     | Horizontal   |
| 10528.5                            | 36.9                 | 16.4        | 53.3                  | 82.3           | -29.0       | Peak     | Horizontal   |
| 7451.5                             | 36.6                 | 11.0        | 47.6                  | 82.3           | -34.7       | Peak     | Vertical     |
| 11004.5                            | 37.0                 | 16.5        | 53.5                  | 82.3           | -28.8       | Peak     | Vertical     |
| <b>Middle CH 26365 (1882.5MHz)</b> |                      |             |                       |                |             |          |              |
| 236.1                              | 18.4                 | 12.3        | 30.7                  | 82.3           | -51.6       | Peak     | Horizontal   |
| 369.5                              | 33.3                 | 16.5        | 49.7                  | 82.3           | -32.6       | Peak     | Horizontal   |
| 35.8                               | 30.8                 | 13.5        | 44.3                  | 82.3           | -38.0       | Peak     | Vertical     |
| 370.5                              | 22.6                 | 16.5        | 39.2                  | 82.3           | -43.1       | Peak     | Vertical     |
| 8097.5                             | 37.2                 | 11.9        | 49.1                  | 82.3           | -33.2       | Peak     | Horizontal   |
| 11004.5                            | 35.8                 | 16.5        | 52.3                  | 82.3           | -30.0       | Peak     | Horizontal   |
| 8046.5                             | 36.7                 | 11.6        | 48.3                  | 82.3           | -34.0       | Peak     | Vertical     |
| 10928.0                            | 35.4                 | 16.6        | 52.0                  | 82.3           | -30.3       | Peak     | Vertical     |
| <b>Top CH 26683 (1914.3MHz)</b>    |                      |             |                       |                |             |          |              |
| 234.2                              | 17.7                 | 12.0        | 29.7                  | 82.3           | -52.6       | Peak     | Horizontal   |
| 370.5                              | 34.1                 | 16.5        | 50.6                  | 82.3           | -31.7       | Peak     | Horizontal   |
| 35.8                               | 30.9                 | 13.5        | 44.3                  | 82.3           | -38.0       | Peak     | Vertical     |
| 370.5                              | 23.2                 | 16.5        | 39.8                  | 82.3           | -42.5       | Peak     | Vertical     |
| 7936.0                             | 38.1                 | 11.4        | 49.5                  | 82.3           | -32.8       | Peak     | Horizontal   |
| 10630.5                            | 36.4                 | 16.2        | 52.6                  | 82.3           | -29.7       | Peak     | Horizontal   |
| 8063.5                             | 37.2                 | 11.5        | 48.7                  | 82.3           | -33.6       | Peak     | Vertical     |
| 10885.5                            | 36.3                 | 16.7        | 53.0                  | 82.3           | -29.3       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).

|           |   |               |           |
|-----------|---|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                     | Test Engineer | Buter Shi |
| Test Date | 2020/07/02                                  | Test Site     | AC1       |
| Test Mode | LTE Band 4/66 - 1.4MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)                     | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-------------------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| <b>Bottom CH 131979 (1710.7MHz)</b> |                      |             |                       |                |             |          |              |
| 328.8                               | 26.4                 | 15.7        | 42.1                  | 82.3           | -40.2       | Peak     | Horizontal   |
| 368.0                               | 36.7                 | 16.4        | 53.1                  | 82.3           | -29.2       | Peak     | Horizontal   |
| 35.3                                | 32.5                 | 13.3        | 45.8                  | 82.3           | -36.5       | Peak     | Vertical     |
| 369.0                               | 24.0                 | 16.5        | 40.5                  | 82.3           | -41.8       | Peak     | Vertical     |
| 9262.0                              | 36.1                 | 14.5        | 50.6                  | 82.3           | -31.7       | Peak     | Horizontal   |
| 10758.0                             | 37.3                 | 16.0        | 53.4                  | 82.3           | -28.9       | Peak     | Horizontal   |
| 7893.5                              | 38.5                 | 11.0        | 49.6                  | 82.3           | -32.7       | Peak     | Vertical     |
| 10639.0                             | 36.4                 | 16.2        | 52.6                  | 82.3           | -29.7       | Peak     | Vertical     |
| <b>Middle CH 132322 (1745.0MHz)</b> |                      |             |                       |                |             |          |              |
| 232.2                               | 19.8                 | 11.7        | 31.5                  | 82.3           | -50.8       | Peak     | Horizontal   |
| 369.0                               | 36.8                 | 16.5        | 53.3                  | 82.3           | -29.0       | Peak     | Horizontal   |
| 35.8                                | 32.5                 | 13.5        | 45.9                  | 82.3           | -36.4       | Peak     | Vertical     |
| 371.9                               | 23.9                 | 16.6        | 40.5                  | 82.3           | -41.8       | Peak     | Vertical     |
| 8803.0                              | 36.2                 | 13.0        | 49.3                  | 82.3           | -33.0       | Peak     | Horizontal   |
| 10707.0                             | 37.9                 | 16.0        | 53.9                  | 82.3           | -28.4       | Peak     | Horizontal   |
| 7936.0                              | 37.8                 | 11.4        | 49.1                  | 82.3           | -33.2       | Peak     | Vertical     |
| 10137.5                             | 36.7                 | 15.6        | 52.3                  | 82.3           | -30.0       | Peak     | Vertical     |
| <b>Top CH 132665 (1779.3MHz)</b>    |                      |             |                       |                |             |          |              |
| 329.7                               | 26.7                 | 15.7        | 42.5                  | 82.3           | -39.8       | Peak     | Horizontal   |
| 370.0                               | 35.9                 | 16.5        | 52.4                  | 82.3           | -29.9       | Peak     | Horizontal   |
| 35.8                                | 32.7                 | 13.5        | 46.1                  | 82.3           | -36.2       | Peak     | Vertical     |
| 371.0                               | 24.0                 | 16.6        | 40.6                  | 82.3           | -41.7       | Peak     | Vertical     |
| 7953.0                              | 36.8                 | 11.7        | 48.4                  | 82.3           | -33.9       | Peak     | Horizontal   |
| 10945.0                             | 36.1                 | 16.8        | 52.8                  | 82.3           | -29.5       | Peak     | Horizontal   |
| 9517.0                              | 36.3                 | 14.8        | 51.1                  | 82.3           | -31.2       | Peak     | Vertical     |
| 10528.5                             | 36.9                 | 16.4        | 53.3                  | 82.3           | -29.0       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).



|           |   |               |           |
|-----------|---|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                     | Test Engineer | Buter Shi |
| Test Date | 2020/07/02                                  | Test Site     | AC1       |
| Test Mode | LTE Band 5/26 - 1.4MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)                   | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| <b>Bottom CH 26697 (814.7MHz)</b> |                      |             |                       |                |             |          |              |
| 330.2                             | 21.1                 | 15.7        | 36.8                  | 82.3           | -45.5       | Peak     | Horizontal   |
| 371.9                             | 31.1                 | 16.6        | 47.7                  | 82.3           | -34.6       | Peak     | Horizontal   |
| 38.7                              | 29.2                 | 13.8        | 42.9                  | 82.3           | -39.4       | Peak     | Vertical     |
| 374.4                             | 21.5                 | 16.7        | 38.2                  | 82.3           | -44.1       | Peak     | Vertical     |
| 7859.5                            | 37.5                 | 11.1        | 48.6                  | 82.3           | -33.7       | Peak     | Horizontal   |
| 10987.5                           | 36.3                 | 16.6        | 52.9                  | 82.3           | -29.4       | Peak     | Horizontal   |
| 7970.0                            | 37.5                 | 11.5        | 49.1                  | 82.3           | -33.2       | Peak     | Vertical     |
| 10392.5                           | 37.0                 | 16.0        | 53.0                  | 82.3           | -29.3       | Peak     | Vertical     |
| <b>Middle CH 26865 (831.5MHz)</b> |                      |             |                       |                |             |          |              |
| 329.2                             | 22.6                 | 15.7        | 38.4                  | 82.3           | -43.9       | Peak     | Horizontal   |
| 368.5                             | 30.0                 | 16.4        | 46.4                  | 82.3           | -35.9       | Peak     | Horizontal   |
| 38.7                              | 27.6                 | 13.8        | 41.4                  | 82.3           | -40.9       | Peak     | Vertical     |
| 373.9                             | 22.5                 | 16.7        | 39.2                  | 82.3           | -43.1       | Peak     | Vertical     |
| 7366.5                            | 37.8                 | 10.9        | 48.6                  | 82.3           | -33.7       | Peak     | Horizontal   |
| 10545.5                           | 35.8                 | 16.5        | 52.3                  | 82.3           | -30.0       | Peak     | Horizontal   |
| 7919.0                            | 37.7                 | 11.3        | 49.0                  | 82.3           | -33.3       | Peak     | Vertical     |
| 10817.5                           | 36.4                 | 16.2        | 52.6                  | 82.3           | -29.7       | Peak     | Vertical     |
| <b>Top CH 27033 (848.3MHz)</b>    |                      |             |                       |                |             |          |              |
| 330.2                             | 21.8                 | 15.7        | 37.6                  | 82.3           | -44.7       | Peak     | Horizontal   |
| 368.0                             | 30.4                 | 16.4        | 46.9                  | 82.3           | -35.4       | Peak     | Horizontal   |
| 38.7                              | 28.7                 | 13.8        | 42.5                  | 82.3           | -39.8       | Peak     | Vertical     |
| 371.4                             | 20.5                 | 16.6        | 37.1                  | 82.3           | -45.2       | Peak     | Vertical     |
| 8106.0                            | 36.8                 | 11.7        | 48.5                  | 82.3           | -33.8       | Peak     | Horizontal   |
| 11565.5                           | 37.6                 | 15.6        | 53.2                  | 82.3           | -29.1       | Peak     | Horizontal   |
| 9389.5                            | 36.7                 | 14.5        | 51.2                  | 82.3           | -31.1       | Peak     | Vertical     |
| 10987.5                           | 37.1                 | 16.6        | 53.7                  | 82.3           | -28.6       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).

|           |  |               |           |
|-----------|--|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                | Test Engineer | Buter Shi |
| Test Date | 2020/07/02                             | Test Site     | AC1       |
| Test Mode | LTE Band 7 - 5MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)                    | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------------------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| <b>Bottom CH 20775 (2502.5MHz)</b> |                      |             |                       |                |             |          |              |
| 325.4                              | 27.4                 | 15.7        | 43.1                  | 70.3           | -27.2       | Peak     | Horizontal   |
| 370.0                              | 37.5                 | 16.5        | 54.0                  | 70.3           | -16.3       | Peak     | Horizontal   |
| 35.3                               | 31.1                 | 13.3        | 44.5                  | 70.3           | -25.8       | Peak     | Vertical     |
| 370.5                              | 24.5                 | 16.5        | 41.0                  | 70.3           | -29.3       | Peak     | Vertical     |
| 7995.5                             | 38.8                 | 11.3        | 50.0                  | 70.3           | -20.3       | Peak     | Horizontal   |
| 11106.5                            | 37.1                 | 16.0        | 53.1                  | 70.3           | -17.2       | Peak     | Horizontal   |
| 8259.0                             | 38.0                 | 11.5        | 49.6                  | 70.3           | -20.7       | Peak     | Vertical     |
| 10834.5                            | 36.5                 | 16.4        | 53.0                  | 70.3           | -17.3       | Peak     | Vertical     |
| <b>Middle CH 21100 (2535.0MHz)</b> |                      |             |                       |                |             |          |              |
| 329.2                              | 27.2                 | 15.7        | 42.9                  | 70.3           | -27.4       | Peak     | Horizontal   |
| 371.4                              | 36.5                 | 16.6        | 53.1                  | 70.3           | -17.2       | Peak     | Horizontal   |
| 35.8                               | 31.6                 | 13.5        | 45.0                  | 70.3           | -25.3       | Peak     | Vertical     |
| 369.5                              | 24.9                 | 16.5        | 41.4                  | 70.3           | -28.9       | Peak     | Vertical     |
| 7961.5                             | 37.1                 | 11.6        | 48.7                  | 70.3           | -21.6       | Peak     | Horizontal   |
| 10392.5                            | 36.6                 | 16.0        | 52.6                  | 70.3           | -17.7       | Peak     | Horizontal   |
| 8063.5                             | 38.1                 | 11.5        | 49.6                  | 70.3           | -20.7       | Peak     | Vertical     |
| 10817.5                            | 36.9                 | 16.2        | 53.1                  | 70.3           | -17.2       | Peak     | Vertical     |
| <b>Top CH 21425 (2567.5MHz)</b>    |                      |             |                       |                |             |          |              |
| 329.2                              | 27.0                 | 15.7        | 42.7                  | 70.3           | -27.6       | Peak     | Horizontal   |
| 372.4                              | 35.9                 | 16.6        | 52.5                  | 70.3           | -17.8       | Peak     | Horizontal   |
| 35.8                               | 31.5                 | 13.5        | 44.9                  | 70.3           | -25.4       | Peak     | Vertical     |
| 368.5                              | 25.7                 | 16.4        | 42.1                  | 70.3           | -28.2       | Peak     | Vertical     |
| 7970.0                             | 38.3                 | 11.5        | 49.9                  | 70.3           | -20.4       | Peak     | Horizontal   |
| 10945.0                            | 35.9                 | 16.8        | 52.6                  | 70.3           | -17.7       | Peak     | Horizontal   |
| 7936.0                             | 37.6                 | 11.4        | 49.0                  | 70.3           | -21.3       | Peak     | Vertical     |
| 10197.0                            | 37.1                 | 15.8        | 52.9                  | 70.3           | -17.4       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).

|           |   |               |           |
|-----------|---|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                   | Test Engineer | Buter Shi |
| Test Date | 2020/07/02                                | Test Site     | AC1       |
| Test Mode | LTE Band 12 - 1.4MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)            | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|----------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| Bottom CH 23017 (699.7MHz) |                      |             |                       |                |             |          |              |
| 35.8                       | 31.5                 | 13.5        | 44.9                  | 82.3           | -37.4       | Peak     | Horizontal   |
| 368.5                      | 25.7                 | 16.4        | 42.1                  | 82.3           | -40.2       | Peak     | Horizontal   |
| 38.7                       | 28.5                 | 13.8        | 42.2                  | 82.3           | -40.1       | Peak     | Vertical     |
| 158.5                      | 20.0                 | 14.6        | 34.6                  | 82.3           | -47.7       | Peak     | Vertical     |
| 8310.0                     | 38.6                 | 11.2        | 49.8                  | 82.3           | -32.5       | Peak     | Horizontal   |
| 10877.0                    | 36.7                 | 16.8        | 53.4                  | 82.3           | -28.9       | Peak     | Horizontal   |
| 8259.0                     | 37.5                 | 11.5        | 49.0                  | 82.3           | -33.3       | Peak     | Vertical     |
| 11242.5                    | 36.9                 | 16.2        | 53.2                  | 82.3           | -29.1       | Peak     | Vertical     |
| Bottom CH 23095 (707.5MHz) |                      |             |                       |                |             |          |              |
| 46.5                       | 21.1                 | 14.5        | 35.6                  | 82.3           | -46.7       | Peak     | Horizontal   |
| 369.5                      | 34.0                 | 16.5        | 50.5                  | 82.3           | -31.8       | Peak     | Horizontal   |
| 35.3                       | 33.4                 | 13.3        | 46.7                  | 82.3           | -35.6       | Peak     | Vertical     |
| 120.7                      | 22.6                 | 12.1        | 34.7                  | 82.3           | -47.6       | Peak     | Vertical     |
| 7978.5                     | 37.4                 | 11.4        | 48.9                  | 82.3           | -33.4       | Peak     | Horizontal   |
| 10877.0                    | 36.0                 | 16.8        | 52.7                  | 82.3           | -29.6       | Peak     | Horizontal   |
| 7944.5                     | 37.5                 | 11.5        | 49.0                  | 82.3           | -33.3       | Peak     | Vertical     |
| 10928.0                    | 36.7                 | 16.6        | 53.3                  | 82.3           | -29.0       | Peak     | Vertical     |
| Bottom CH 23173 (715.3MHz) |                      |             |                       |                |             |          |              |
| 148.8                      | 21.7                 | 14.4        | 36.1                  | 82.3           | -46.2       | Peak     | Horizontal   |
| 371.4                      | 34.8                 | 16.6        | 51.4                  | 82.3           | -30.9       | Peak     | Horizontal   |
| 36.3                       | 32.4                 | 13.5        | 45.9                  | 82.3           | -36.4       | Peak     | Vertical     |
| 372.4                      | 24.0                 | 16.6        | 40.7                  | 82.3           | -41.6       | Peak     | Vertical     |
| 8046.5                     | 38.0                 | 11.6        | 49.6                  | 82.3           | -32.7       | Peak     | Horizontal   |
| 10868.5                    | 36.7                 | 16.6        | 53.3                  | 82.3           | -29.0       | Peak     | Horizontal   |
| 8004.0                     | 37.7                 | 11.3        | 49.0                  | 82.3           | -33.3       | Peak     | Vertical     |
| 11531.5                    | 37.0                 | 15.9        | 52.9                  | 82.3           | -29.4       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).

|           |   |               |           |
|-----------|---|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                 | Test Engineer | Buter Shi |
| Test Date | 2020/07/02                              | Test Site     | AC1       |
| Test Mode | LTE Band 13 - 5MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)                   | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| <b>Bottom CH 2305 (779.5MHz)</b>  |                      |             |                       |                |             |          |              |
| 312.3                             | 30.3                 | 20.4        | 50.7                  | 82.3           | -31.6       | Peak     | Horizontal   |
| 361.7                             | 27.3                 | 21.3        | 48.6                  | 82.3           | -33.7       | Peak     | Horizontal   |
| 311.3                             | 21.4                 | 20.4        | 41.8                  | 82.3           | -40.5       | Peak     | Vertical     |
| 360.3                             | 23.1                 | 21.3        | 44.3                  | 82.3           | -38.0       | Peak     | Vertical     |
| 1554.5                            | 36.4                 | -4.7        | 31.8                  | 82.3           | -50.5       | Peak     | Horizontal   |
| 2331.8                            | 33.3                 | -1.1        | 32.2                  | 82.3           | -50.1       | Peak     | Horizontal   |
| 1554.5                            | 36.1                 | -4.7        | 31.4                  | 82.3           | -50.9       | Peak     | Vertical     |
| 2331.8                            | 33.7                 | -1.1        | 32.6                  | 82.3           | -49.7       | Peak     | Vertical     |
| <b>Middle CH 23230 (782.0MHz)</b> |                      |             |                       |                |             |          |              |
| 311.3                             | 27.8                 | 20.4        | 48.1                  | 82.3           | -34.2       | Peak     | Horizontal   |
| 360.3                             | 24.6                 | 21.3        | 45.9                  | 82.3           | -36.4       | Peak     | Horizontal   |
| 311.3                             | 20.3                 | 20.4        | 40.7                  | 82.3           | -41.6       | Peak     | Vertical     |
| 360.3                             | 22.1                 | 21.3        | 43.3                  | 82.3           | -39.0       | Peak     | Vertical     |
| 1559.5                            | 36.2                 | -4.6        | 31.6                  | 55.3           | -23.7       | Peak     | Horizontal   |
| 2339.3                            | 32.8                 | -1.1        | 31.7                  | 82.3           | -50.6       | Peak     | Horizontal   |
| 1559.5                            | 36.9                 | -4.6        | 32.3                  | 55.3           | -23.0       | Peak     | Vertical     |
| 2339.3                            | 33.2                 | -1.1        | 32.1                  | 82.3           | -50.2       | Peak     | Vertical     |
| <b>Top CH 23255 (784.5MHz)</b>    |                      |             |                       |                |             |          |              |
| 314.2                             | 28.8                 | 20.5        | 49.3                  | 82.3           | -33.0       | Peak     | Horizontal   |
| 361.3                             | 25.5                 | 21.3        | 46.8                  | 82.3           | -35.5       | Peak     | Horizontal   |
| 310.3                             | 20.2                 | 20.4        | 40.6                  | 82.3           | -41.7       | Peak     | Vertical     |
| 363.2                             | 22.3                 | 21.4        | 43.6                  | 82.3           | -38.7       | Peak     | Vertical     |
| 1564.5                            | 36.5                 | -4.5        | 32.0                  | 55.3           | -23.2       | Peak     | Horizontal   |
| 2346.8                            | 33.0                 | -1.2        | 31.8                  | 82.3           | -50.5       | Peak     | Horizontal   |
| 1564.5                            | 36.0                 | -4.5        | 31.5                  | 55.3           | -23.8       | Peak     | Vertical     |
| 2346.8                            | 33.0                 | -1.2        | 31.9                  | 82.3           | -50.4       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).

|           |  |               |           |
|-----------|--|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                    | Test Engineer | Buter Shi |
| Test Date | 2020/07/02                                 | Test Site     | AC1       |
| Test Mode | LTE Band 38/41 - 5MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)                    | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------------------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| <b>Bottom CH 39675 (2498.5MHz)</b> |                      |             |                       |                |             |          |              |
| 327.8                              | 26.8                 | 15.7        | 42.5                  | 70.3           | -27.8       | Peak     | Horizontal   |
| 371.0                              | 36.9                 | 16.6        | 53.5                  | 70.3           | -16.8       | Peak     | Horizontal   |
| 36.3                               | 31.4                 | 13.5        | 44.8                  | 70.3           | -25.5       | Peak     | Vertical     |
| 371.0                              | 24.2                 | 16.6        | 40.7                  | 70.3           | -29.6       | Peak     | Vertical     |
| 7978.5                             | 37.9                 | 11.4        | 49.4                  | 70.3           | -20.9       | Peak     | Horizontal   |
| 10894.0                            | 36.5                 | 16.5        | 53.0                  | 70.3           | -17.3       | Peak     | Horizontal   |
| 7953.0                             | 36.7                 | 11.7        | 48.4                  | 70.3           | -21.9       | Peak     | Vertical     |
| 10945.0                            | 35.9                 | 16.8        | 52.7                  | 70.3           | -17.6       | Peak     | Vertical     |
| <b>Middle CH 40620 (2593.0MHz)</b> |                      |             |                       |                |             |          |              |
| 330.7                              | 26.5                 | 15.7        | 42.2                  | 70.3           | -28.1       | Peak     | Horizontal   |
| 372.4                              | 37.0                 | 16.6        | 53.7                  | 70.3           | -16.6       | Peak     | Horizontal   |
| 35.3                               | 31.7                 | 13.3        | 45.1                  | 70.3           | -25.2       | Peak     | Vertical     |
| 372.9                              | 24.3                 | 16.7        | 40.9                  | 70.3           | -29.4       | Peak     | Vertical     |
| 8012.5                             | 36.8                 | 11.4        | 48.2                  | 70.3           | -22.1       | Peak     | Horizontal   |
| 10673.0                            | 36.6                 | 16.0        | 52.6                  | 70.3           | -17.7       | Peak     | Horizontal   |
| 7757.5                             | 39.1                 | 10.7        | 49.9                  | 70.3           | -20.4       | Peak     | Vertical     |
| 10358.5                            | 37.2                 | 16.2        | 53.4                  | 70.3           | -16.9       | Peak     | Vertical     |
| <b>Top CH 40565 (2687.5MHz)</b>    |                      |             |                       |                |             |          |              |
| 328.3                              | 26.7                 | 15.7        | 42.4                  | 70.3           | -27.9       | Peak     | Horizontal   |
| 369.0                              | 37.8                 | 16.5        | 54.2                  | 70.3           | -16.1       | Peak     | Horizontal   |
| 35.8                               | 31.8                 | 13.5        | 45.3                  | 70.3           | -25.0       | Peak     | Vertical     |
| 371.4                              | 25.3                 | 16.6        | 41.9                  | 70.3           | -28.4       | Peak     | Vertical     |
| 7970.0                             | 37.1                 | 11.5        | 48.7                  | 70.3           | -21.6       | Peak     | Horizontal   |
| 11642.0                            | 38.1                 | 15.3        | 53.3                  | 70.3           | -17.0       | Peak     | Horizontal   |
| 7757.5                             | 38.3                 | 10.7        | 49.0                  | 70.3           | -21.3       | Peak     | Vertical     |
| 11361.5                            | 36.9                 | 16.0        | 52.9                  | 70.3           | -17.4       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).

|           |  |               |           |
|-----------|--|---------------|-----------|
| Product   | LTE-A Cat 12 M.2 Module                          | Test Engineer | Buter Shi |
| Test Date | 2020/08/04                                       | Test Site     | AC1       |
| Test Mode | LTE Band 41 For HPUE - 5MHz Bandwidth, 1RB, QPSK |               |           |

| Frequency (MHz)                    | Reading Level (dBμV) | Factor (dB) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------------------------------------|----------------------|-------------|-----------------------|----------------|-------------|----------|--------------|
| <b>Bottom CH 39675 (2498.5MHz)</b> |                      |             |                       |                |             |          |              |
| 311.3                              | 19.9                 | 20.4        | 40.3                  | 70.3           | -30.0       | Peak     | Horizontal   |
| 363.7                              | 19.9                 | 21.4        | 41.3                  | 70.3           | -29.0       | Peak     | Horizontal   |
| 312.3                              | 29.1                 | 20.4        | 49.5                  | 70.3           | -20.8       | Peak     | Vertical     |
| 361.3                              | 26.0                 | 21.3        | 47.3                  | 70.3           | -23.0       | Peak     | Vertical     |
| 4992.7                             | 30.7                 | 4.0         | 34.7                  | 70.3           | -35.6       | Peak     | Horizontal   |
| 7489.0                             | 32.1                 | 12.2        | 44.2                  | 70.3           | -26.1       | Peak     | Horizontal   |
| 4992.7                             | 31.9                 | 4.0         | 35.9                  | 70.3           | -34.4       | Peak     | Vertical     |
| 7489.0                             | 33.7                 | 12.2        | 45.9                  | 70.3           | -24.4       | Peak     | Vertical     |
| <b>Middle CH 40620 (2593.0MHz)</b> |                      |             |                       |                |             |          |              |
| 312.3                              | 29.4                 | 20.4        | 49.8                  | 70.3           | -20.5       | Peak     | Horizontal   |
| 360.3                              | 26.6                 | 21.3        | 47.9                  | 70.3           | -22.4       | Peak     | Horizontal   |
| 311.8                              | 20.4                 | 20.4        | 40.8                  | 70.3           | -29.5       | Peak     | Vertical     |
| 361.7                              | 19.8                 | 21.3        | 41.2                  | 70.3           | -29.1       | Peak     | Vertical     |
| 5151.7                             | 31.1                 | 4.5         | 35.6                  | 70.3           | -34.7       | Peak     | Horizontal   |
| 7772.5                             | 30.3                 | 11.9        | 42.2                  | 70.3           | -28.1       | Peak     | Horizontal   |
| 5181.7                             | 34.6                 | 4.5         | 39.0                  | 70.3           | -31.3       | Peak     | Vertical     |
| 7772.5                             | 32.9                 | 11.9        | 44.8                  | 70.3           | -25.5       | Peak     | Vertical     |
| <b>Top CH 40565 (2687.5MHz)</b>    |                      |             |                       |                |             |          |              |
| 313.2                              | 29.0                 | 20.5        | 49.5                  | 70.3           | -20.8       | Peak     | Horizontal   |
| 362.2                              | 26.0                 | 21.3        | 47.4                  | 70.3           | -22.9       | Peak     | Horizontal   |
| 311.3                              | 19.9                 | 20.4        | 40.3                  | 70.3           | -30.0       | Peak     | Vertical     |
| 359.3                              | 19.7                 | 21.3        | 41.0                  | 70.3           | -29.3       | Peak     | Vertical     |
| 5370.7                             | 30.7                 | 4.3         | 35.0                  | 70.3           | -35.3       | Peak     | Horizontal   |
| 8056.0                             | 28.7                 | 12.7        | 41.4                  | 70.3           | -28.9       | Peak     | Horizontal   |
| 5369.0                             | 40.4                 | 0.0         | 40.5                  | 70.3           | -29.8       | Peak     | Vertical     |
| 10834.5                            | 34.8                 | 13.9        | 48.6                  | 70.3           | -21.7       | Peak     | Vertical     |

Note: Measure Level (dBm) = Reading Level (dBm) + Factor (dB).

## 6. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with FCC Rules.

## **Appendix A - Test Setup Photograph**

Refer to "2006RSU085-UT" file.



## **Appendix B - EUT Photograph**

Refer to "2006RSU085-UE" file.