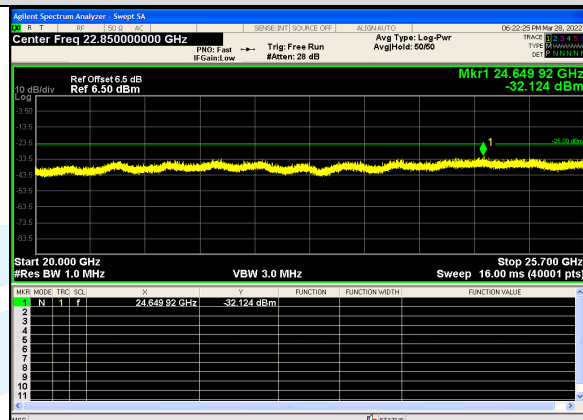
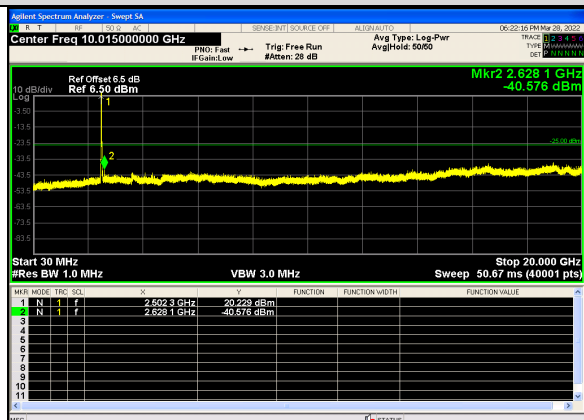
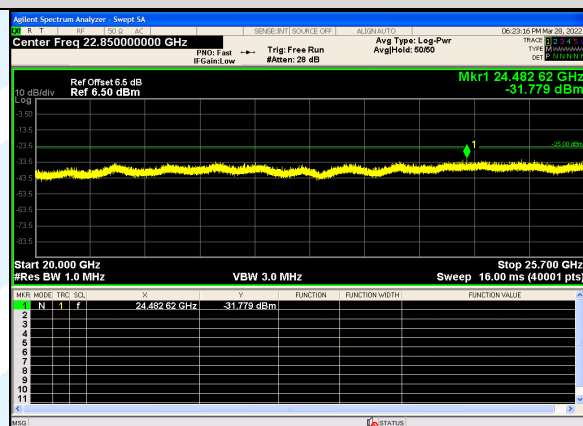
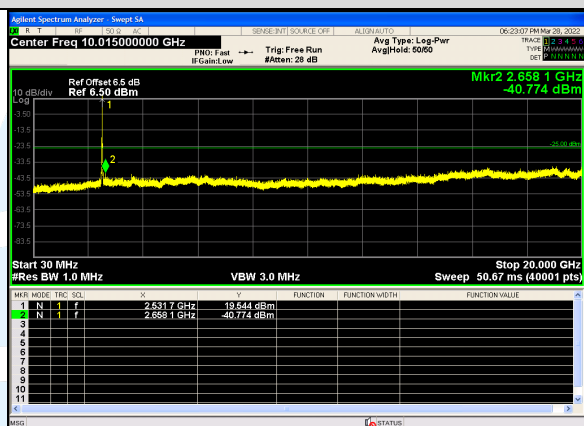


## LTE Band 7\_ Channel Bandwidth: 15 MHz\_ 16QAM

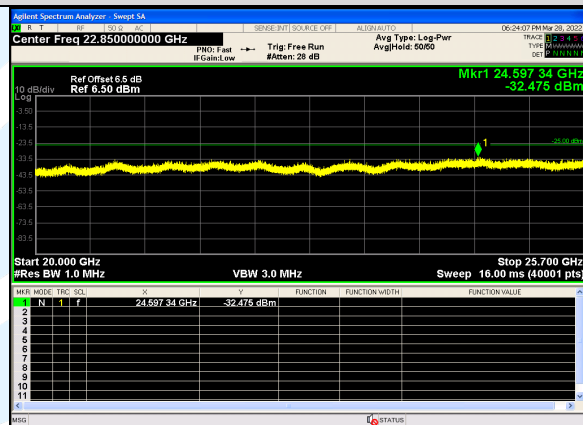
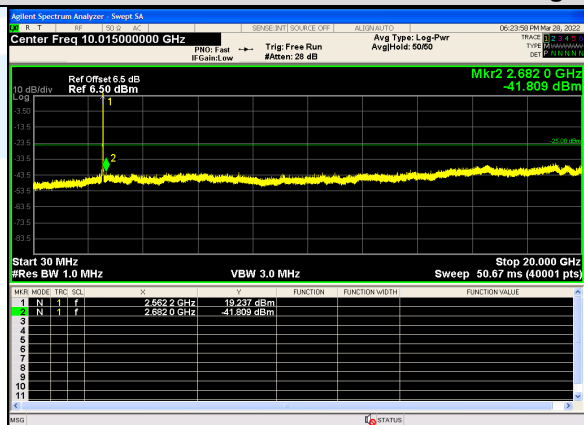
### Lowest Channel



### Middle Channel

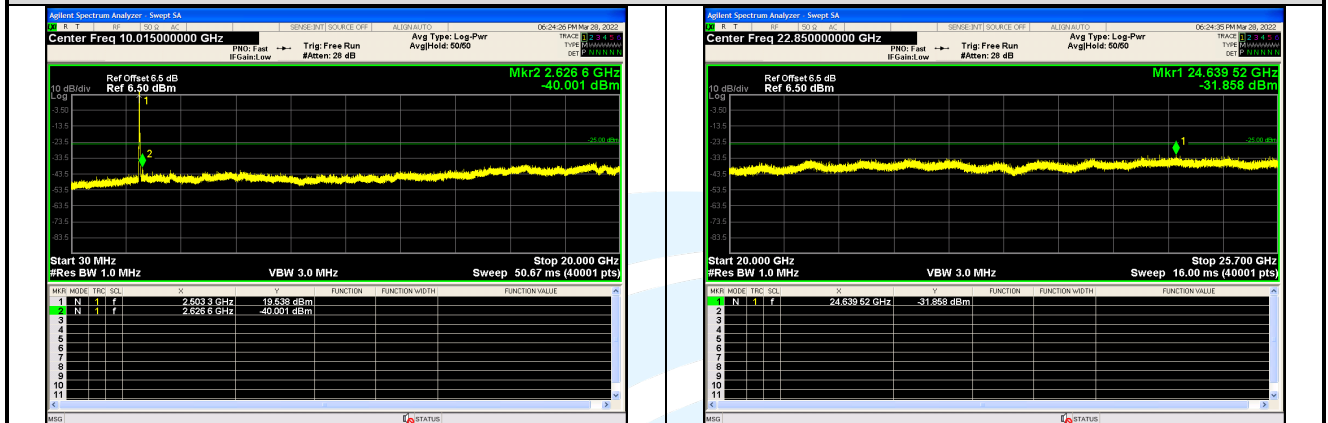


### Highest Channel

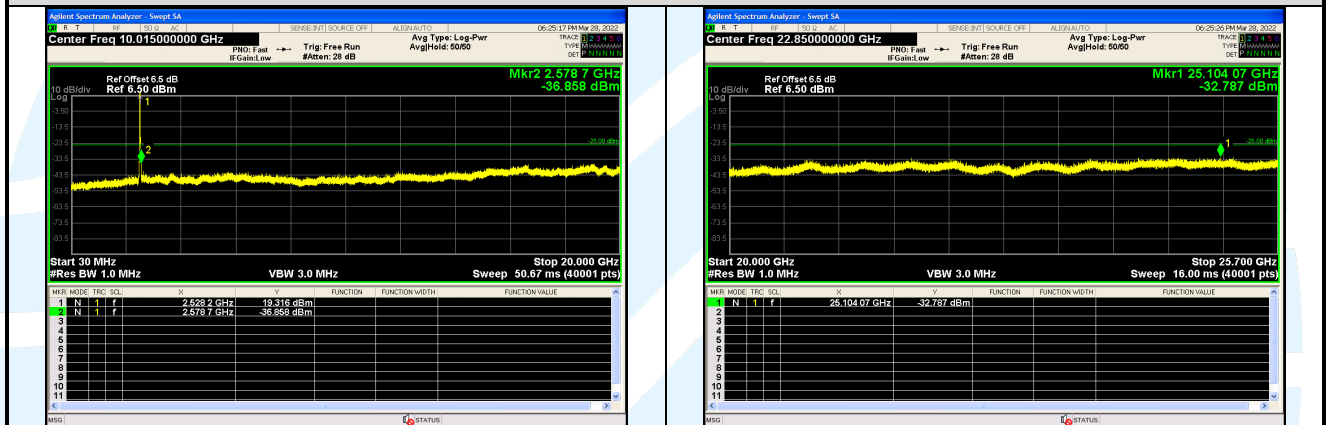


## LTE Band 7\_ Channel Bandwidth: 20 MHz\_ QPSK

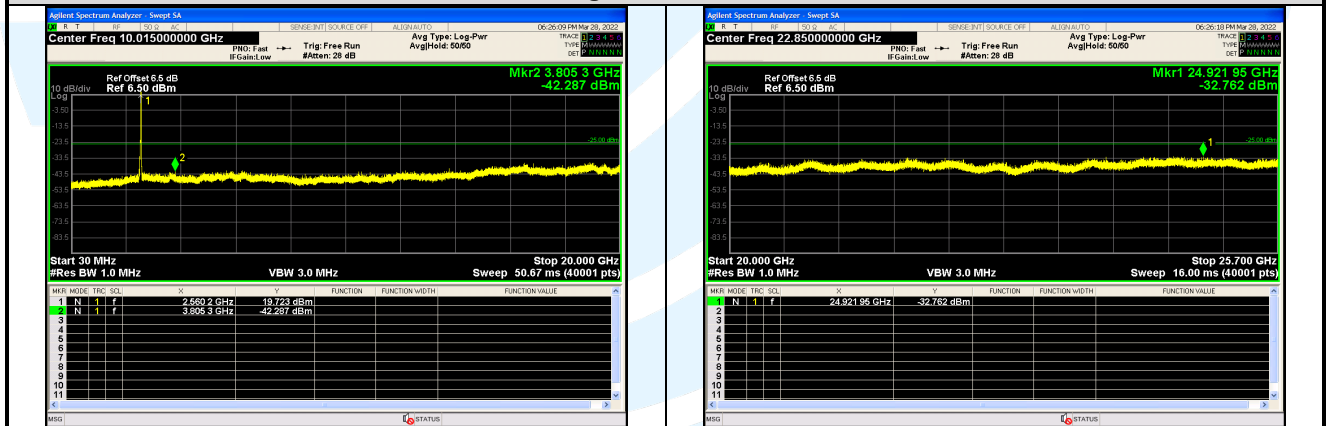
### Lowest Channel



### Middle Channel

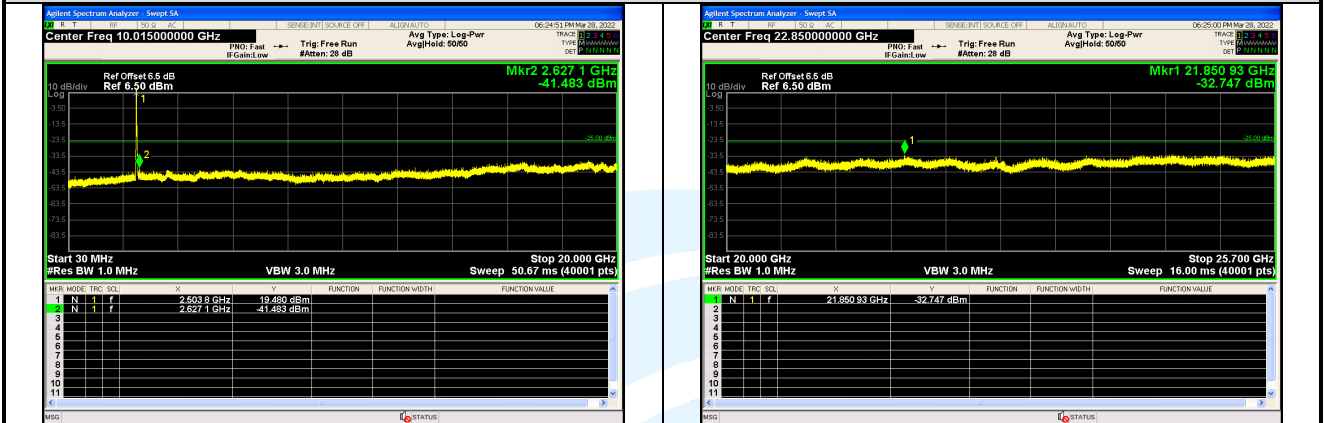


### Highest Channel

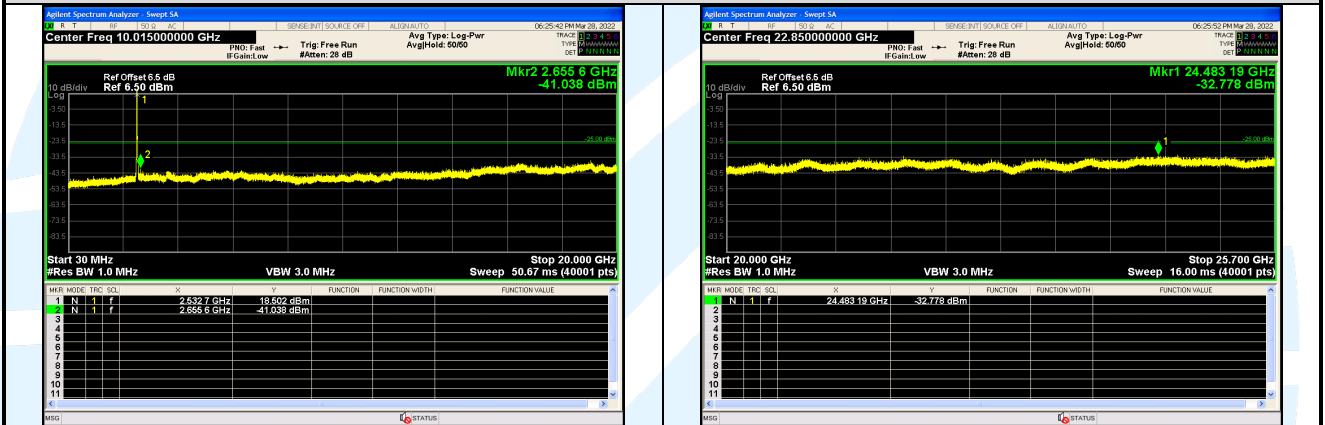


## LTE Band 7\_ Channel Bandwidth: 20 MHz\_ 16QAM

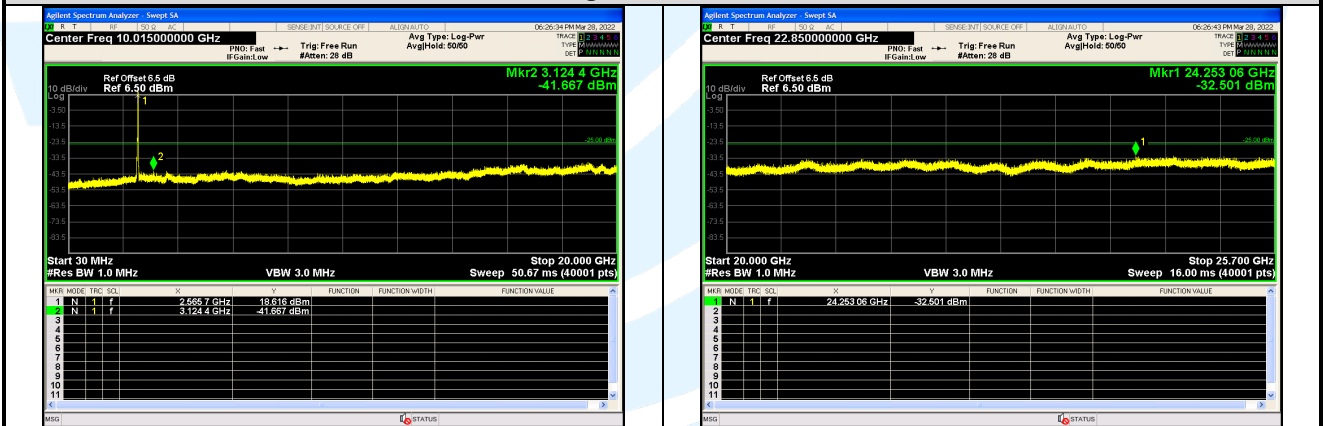
### Lowest Channel



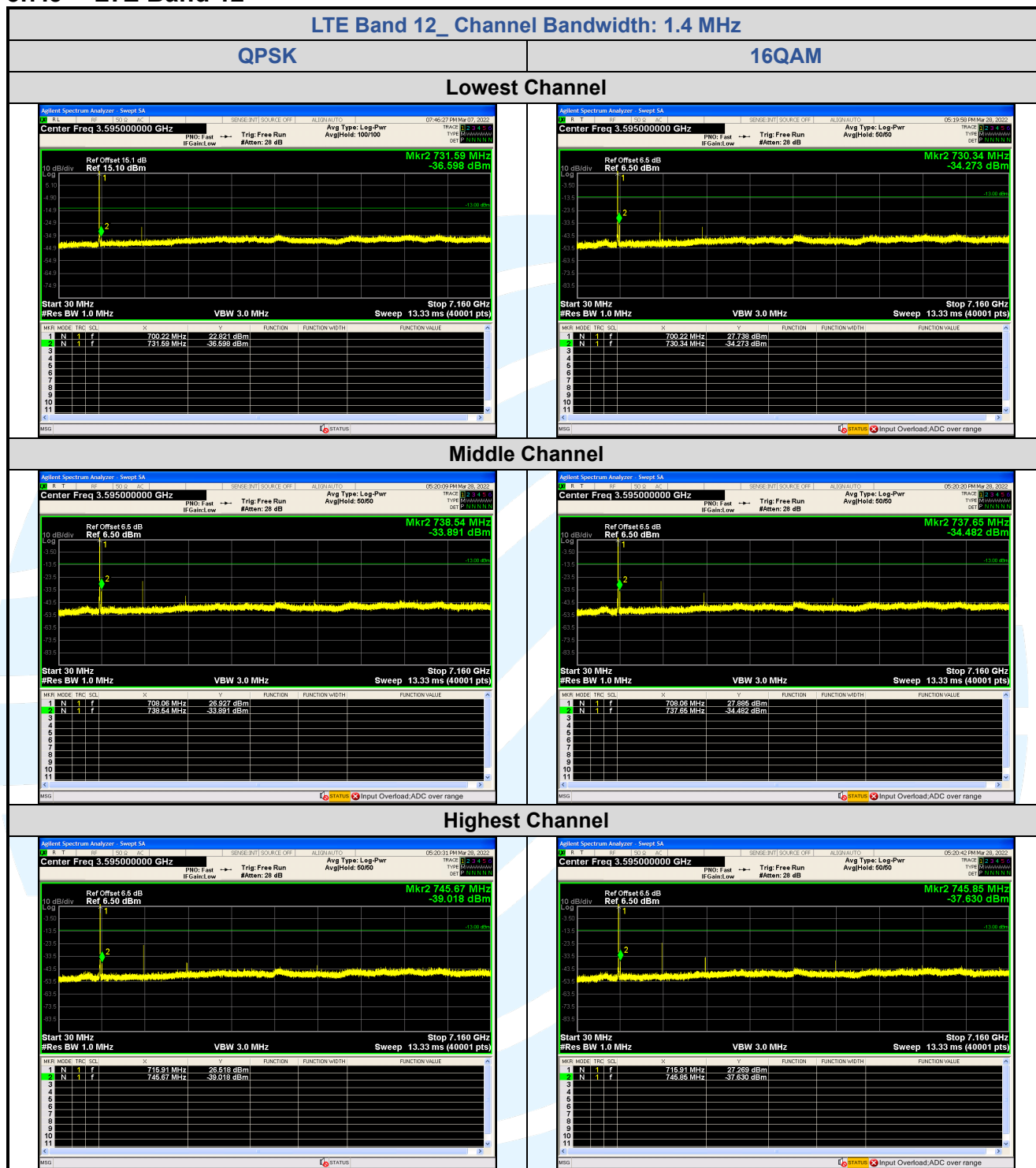
### Middle Channel

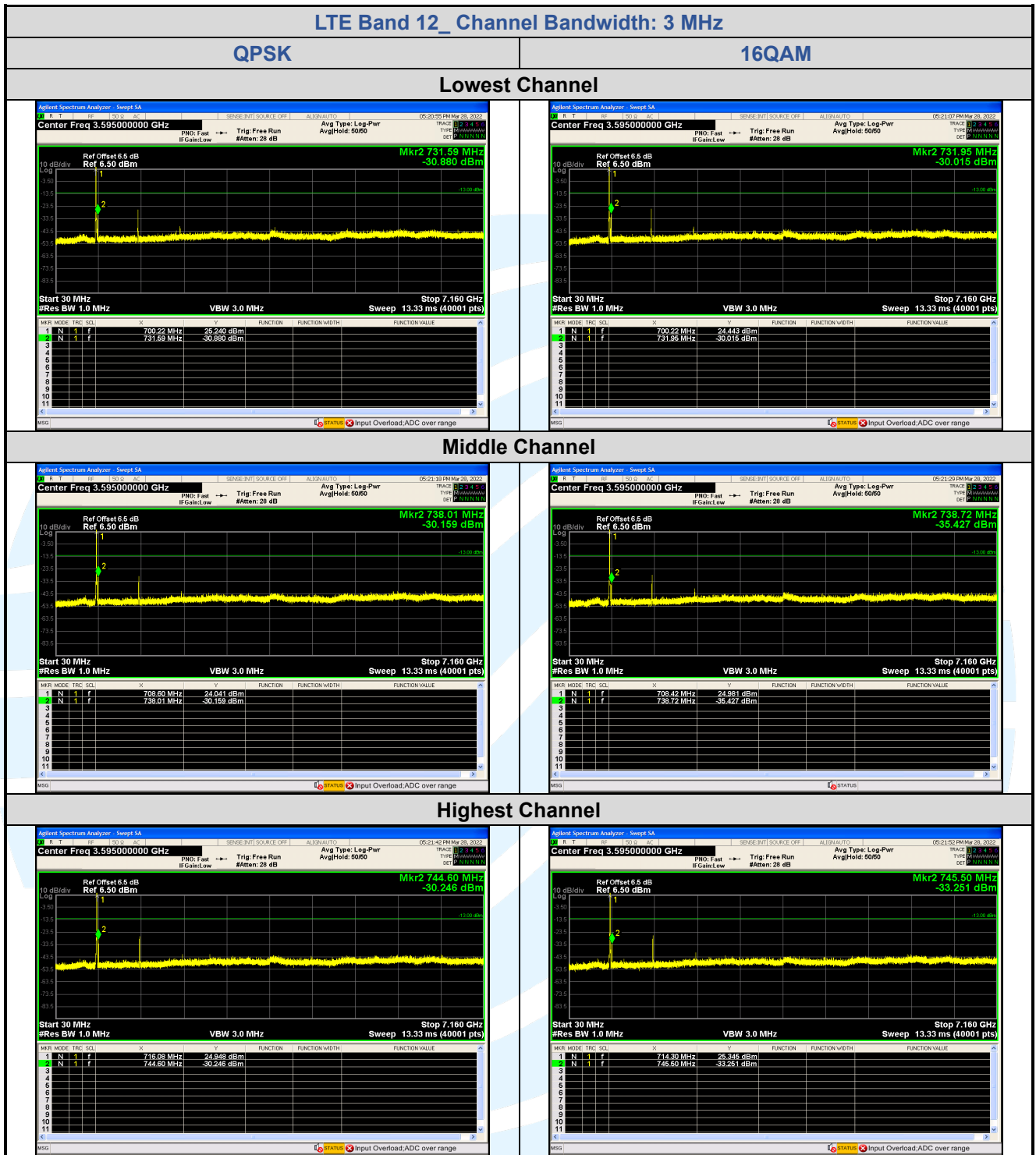


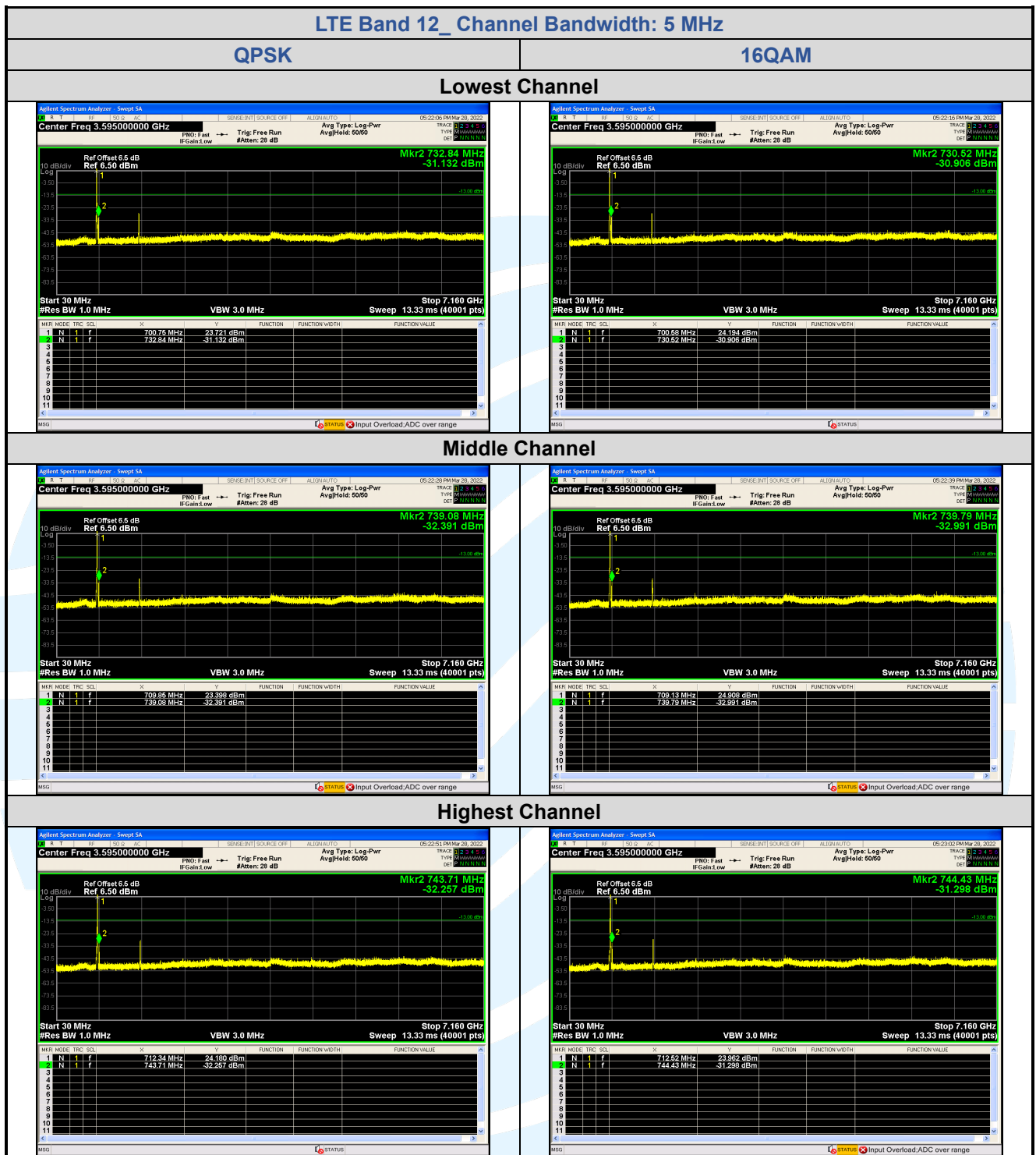
### Highest Channel

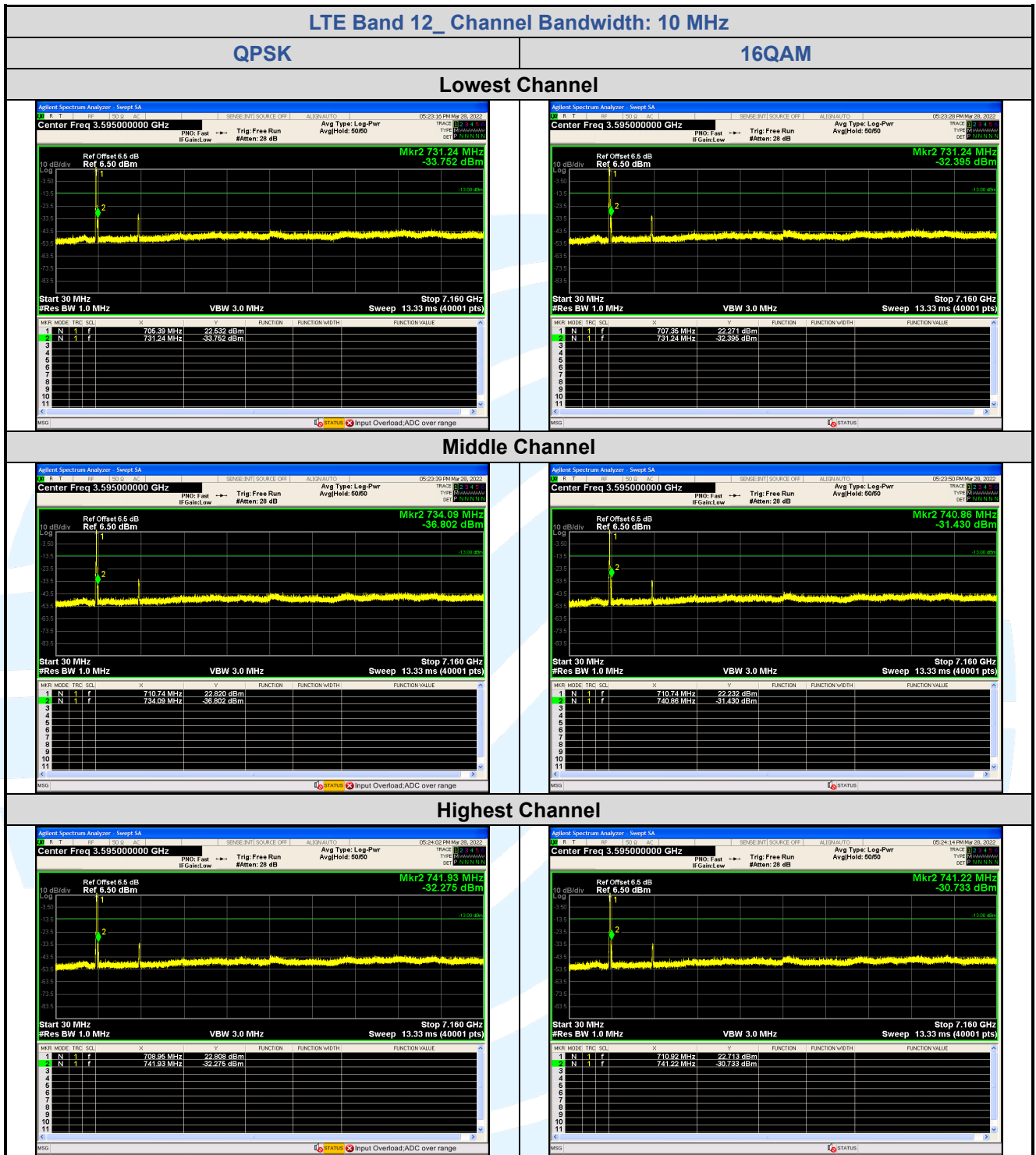


## 5.7.5 LTE Band 12

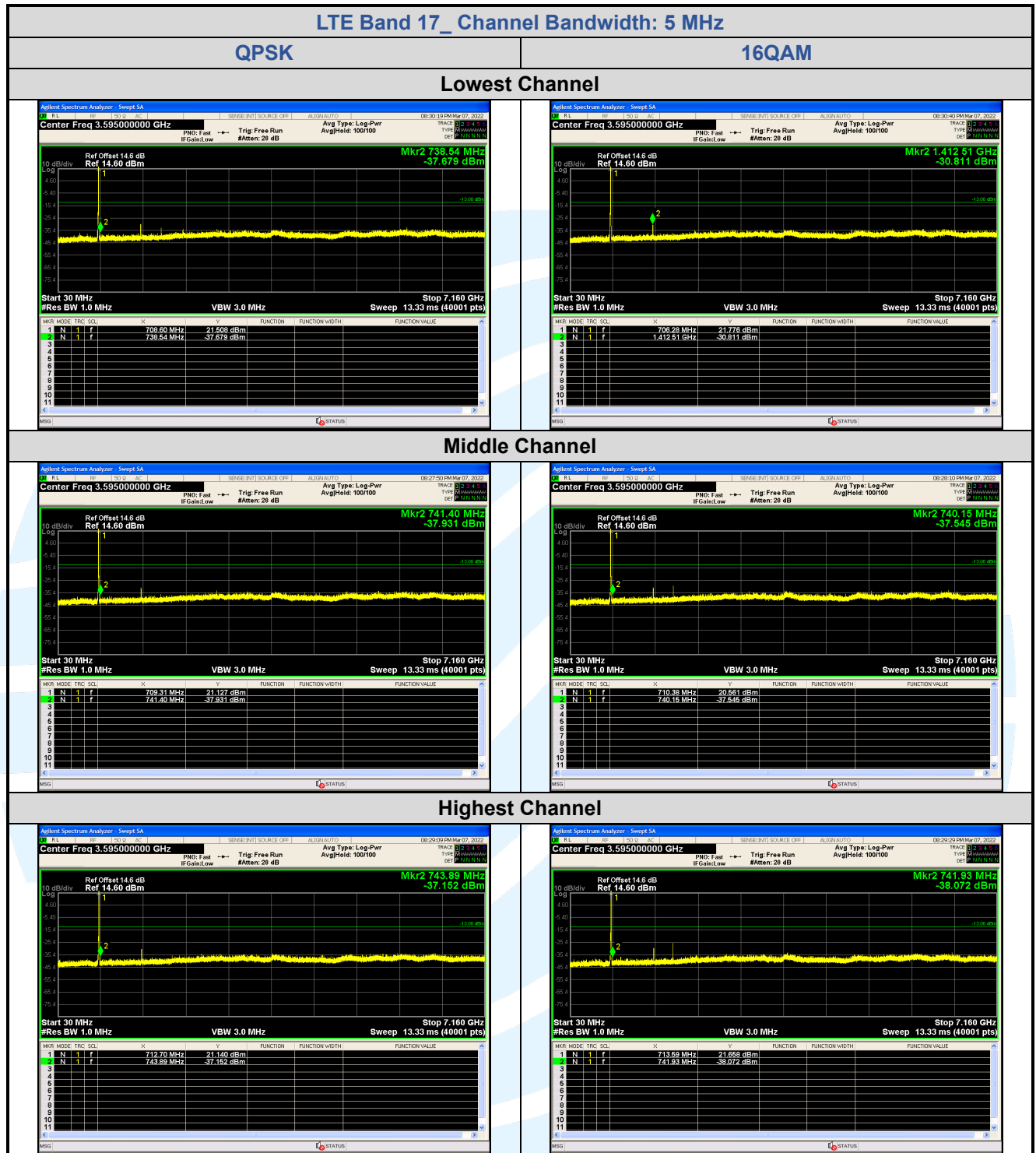


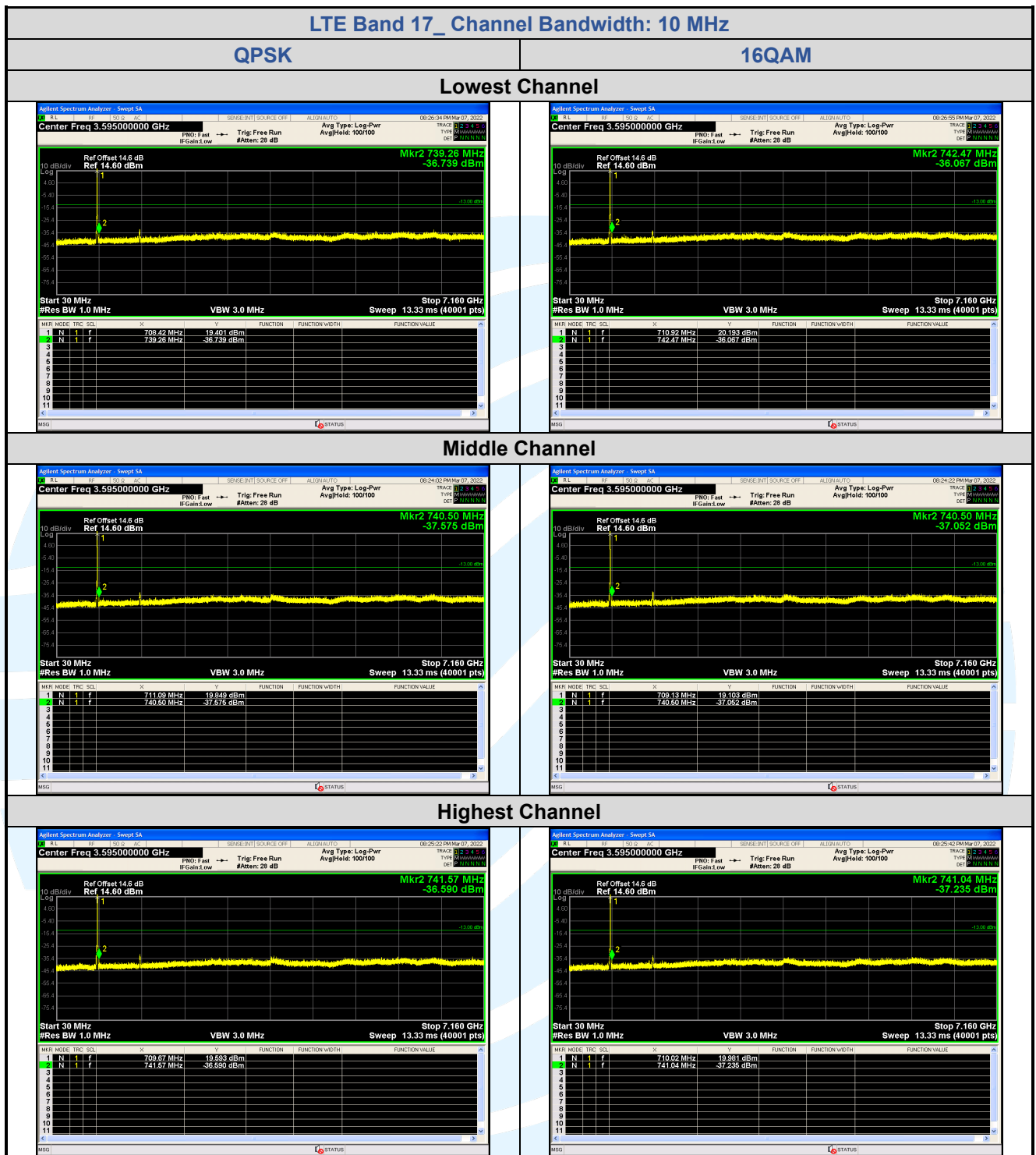






### 5.7.6 LTE Band 17





### 5.7.7 LTE Band 66













## 5.8 FIELD STRENGTH OF SPURIOUS RADIATION

**Test Requirement:** LTE Band 2: FCC 47 CFR Part 24.238(a)  
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)  
LTE Band 5: FCC 47 CFR Part 22.917(a)  
LTE Band 7: FCC 47 CFR Part 27.53(m)(4)  
LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)

**Test Method:** ANSI C63.26-2015 & KDB 971168 D01v03r01

**Receiver Setup:**

| Frequency        | Detector   | RBW     | VBW     | Remark |
|------------------|------------|---------|---------|--------|
| 0.009 MHz-30 MHz | Peak       | 10 kHz  | 30 KHz  | Peak   |
| 30 MHz-1 GHz     | Quasi-peak | 100 kHz | 300 KHz | Peak   |
| Above 1 GHz      | Peak       | 1 MHz   | 3 MHz   | Peak   |

**Limits:**

**FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g):**

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 -13 dBm.

**FCC 47 CFR Part 27.53(m)(4):**

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 -25 dBm.

**FCC 47 CFR Part 27.53:**

(c) 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.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

**Test Setup:** Refer to section 4.2.1 for details.

**Test Procedures:** KDB 971168 D01v03r01 Section 7

**Equipment Used:** Refer to section 3 for details.

**Test Result:** Pass

**The measurement data as follows:**

### 5.8.1 LTE Band 2

| LTE Band 2_20 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 660.602            | -80.95                 | 10.15                          | -70.80                  | -13.00         | -57.80         | Horizontal |
| 2                      | 787.475            | -80.69                 | 11.77                          | -68.92                  | -13.00         | -55.92         | Horizontal |
| 3                      | 938.714            | -82.36                 | 14.16                          | -68.20                  | -13.00         | -55.20         | Horizontal |
| 4                      | 3720.000           | -66.08                 | 7.65                           | -58.43                  | -13.00         | -45.43         | Horizontal |
| 5                      | 5580.000           | -66.01                 | 11.70                          | -54.31                  | -13.00         | -41.31         | Horizontal |
| 6                      | 33.807             | -80.53                 | 4.64                           | -75.89                  | -13.00         | -62.89         | Vertical   |
| 7                      | 590.351            | -80.36                 | 8.51                           | -71.85                  | -13.00         | -58.85         | Vertical   |
| 8                      | 868.886            | -81.35                 | 13.20                          | -68.15                  | -13.00         | -55.15         | Vertical   |
| 9                      | 3720.000           | -66.89                 | 7.65                           | -59.24                  | -13.00         | -46.24         | Vertical   |
| 10                     | 5580.000           | -65.63                 | 11.70                          | -53.93                  | -13.00         | -40.93         | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 36.014             | -80.09                 | 4.16                           | -75.93                  | -13.00         | -62.93         | Horizontal |
| 2                      | 50.461             | -72.17                 | -5.14                          | -77.31                  | -13.00         | -64.31         | Horizontal |
| 3                      | 992.997            | -82.67                 | 14.78                          | -67.89                  | -13.00         | -54.89         | Horizontal |
| 4                      | 3760.000           | -65.75                 | 7.79                           | -57.96                  | -13.00         | -44.96         | Horizontal |
| 5                      | 5640.000           | -64.86                 | 11.56                          | -53.30                  | -13.00         | -40.30         | Horizontal |
| 6                      | 624.490            | -80.98                 | 9.33                           | -71.65                  | -13.00         | -58.65         | Vertical   |
| 7                      | 776.485            | -81.15                 | 11.55                          | -69.60                  | -13.00         | -56.60         | Vertical   |
| 8                      | 925.613            | -82.43                 | 14.06                          | -68.37                  | -13.00         | -55.37         | Vertical   |
| 9                      | 3760.000           | -62.82                 | 7.79                           | -55.03                  | -13.00         | -42.03         | Vertical   |
| 10                     | 5640.000           | -63.93                 | 11.56                          | -52.37                  | -13.00         | -39.37         | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 509.356            | -80.55                 | 7.15                           | -73.40                  | -13.00         | -60.40         | Horizontal |
| 2                      | 607.181            | -80.28                 | 8.93                           | -71.35                  | -13.00         | -58.35         | Horizontal |
| 3                      | 925.613            | -82.20                 | 14.06                          | -68.14                  | -13.00         | -55.14         | Horizontal |
| 4                      | 3800.000           | -63.69                 | 7.93                           | -55.76                  | -13.00         | -42.76         | Horizontal |
| 5                      | 5700.000           | -68.08                 | 11.43                          | -56.65                  | -13.00         | -43.65         | Horizontal |
| 6                      | 31.513             | -80.88                 | 4.94                           | -75.94                  | -13.00         | -62.94         | Vertical   |
| 7                      | 353.447            | -81.58                 | 4.65                           | -76.93                  | -13.00         | -63.93         | Vertical   |
| 8                      | 925.613            | -82.08                 | 14.06                          | -68.02                  | -13.00         | -55.02         | Vertical   |
| 9                      | 3800.000           | -66.31                 | 7.93                           | -58.38                  | -13.00         | -45.38         | Vertical   |
| 10                     | 5700.000           | -70.87                 | 11.43                          | -59.44                  | -13.00         | -46.44         | Vertical   |

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### 5.8.2 LTE Band 4

| LTE Band 4_20 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 47.703             | -72.46                 | -3.45                          | -75.91                  | -13.00         | -62.91         | Horizontal |
| 2                      | 698.804            | -81.09                 | 10.98                          | -70.11                  | -13.00         | -57.11         | Horizontal |
| 3                      | 932.141            | -81.80                 | 14.11                          | -67.69                  | -13.00         | -54.69         | Horizontal |
| 4                      | 3440.000           | -66.59                 | 6.53                           | -60.06                  | -13.00         | -47.06         | Horizontal |
| 5                      | 5160.000           | -65.49                 | 10.10                          | -55.39                  | -13.00         | -42.39         | Horizontal |
| 6                      | 31.959             | -79.93                 | 4.86                           | -75.07                  | -13.00         | -62.07         | Vertical   |
| 7                      | 54.135             | -71.91                 | -7.12                          | -79.03                  | -13.00         | -66.03         | Vertical   |
| 8                      | 952.000            | -82.81                 | 14.25                          | -68.56                  | -13.00         | -55.56         | Vertical   |
| 9                      | 3440.000           | -67.46                 | 6.53                           | -60.93                  | -13.00         | -47.93         | Vertical   |
| 10                     | 5160.000           | -66.29                 | 10.10                          | -56.19                  | -13.00         | -43.19         | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 30.639             | -80.61                 | 5.09                           | -75.52                  | -13.00         | -62.52         | Horizontal |
| 2                      | 51.176             | -71.74                 | -5.54                          | -77.28                  | -13.00         | -64.28         | Horizontal |
| 3                      | 739.214            | -81.48                 | 11.59                          | -69.89                  | -13.00         | -56.89         | Horizontal |
| 4                      | 3465.000           | -67.75                 | 6.62                           | -61.13                  | -13.00         | -48.13         | Horizontal |
| 5                      | 5197.500           | -65.52                 | 10.25                          | -55.27                  | -13.00         | -42.27         | Horizontal |
| 6                      | 31.073             | -80.34                 | 5.02                           | -75.32                  | -13.00         | -62.32         | Vertical   |
| 7                      | 53.379             | -71.62                 | -6.95                          | -78.57                  | -13.00         | -65.57         | Vertical   |
| 8                      | 734.037            | -81.12                 | 11.36                          | -69.76                  | -13.00         | -56.76         | Vertical   |
| 9                      | 3465.000           | -67.55                 | 6.62                           | -60.93                  | -13.00         | -47.93         | Vertical   |
| 10                     | 5197.500           | -65.65                 | 10.25                          | -55.40                  | -13.00         | -42.40         | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 35.016             | -80.78                 | 5.31                           | -75.47                  | -13.00         | -62.47         | Horizontal |
| 2                      | 47.703             | -73.61                 | -3.45                          | -77.06                  | -13.00         | -64.06         | Horizontal |
| 3                      | 850.760            | -81.66                 | 12.97                          | -68.69                  | -13.00         | -55.69         | Horizontal |
| 4                      | 3490.000           | -65.27                 | 6.71                           | -58.56                  | -13.00         | -45.56         | Horizontal |
| 5                      | 5235.000           | -66.86                 | 10.44                          | -56.42                  | -13.00         | -43.42         | Horizontal |
| 6                      | 35.263             | -80.84                 | 5.02                           | -75.82                  | -13.00         | -62.82         | Vertical   |
| 7                      | 684.226            | -81.01                 | 10.62                          | -70.39                  | -13.00         | -57.39         | Vertical   |
| 8                      | 844.803            | -81.85                 | 12.71                          | -69.14                  | -13.00         | -56.14         | Vertical   |
| 9                      | 3490.000           | -65.48                 | 6.71                           | -58.77                  | -13.00         | -45.77         | Vertical   |
| 10                     | 5235.000           | -61.81                 | 10.44                          | -51.37                  | -13.00         | -38.37         | Vertical   |

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### 5.8.3 LTE Band 5

| LTE Band 5_10 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 186.468            | -87.23                 | 27.58                          | -59.65                  | -13.00         | -46.65         | Horizontal |
| 2                      | 624.490            | -87.75                 | 38.76                          | -48.99                  | -13.00         | -35.99         | Horizontal |
| 3                      | 992.997            | -87.40                 | 43.41                          | -43.99                  | -13.00         | -30.99         | Horizontal |
| 4                      | 1658.000           | -55.79                 | 0.27                           | -55.52                  | -13.00         | -42.52         | Horizontal |
| 5                      | 2487.000           | -66.80                 | 3.64                           | -63.16                  | -13.00         | -50.16         | Horizontal |
| 6                      | 343.651            | -88.92                 | 32.44                          | -56.48                  | -13.00         | -43.48         | Vertical   |
| 7                      | 558.079            | -89.04                 | 37.15                          | -51.89                  | -13.00         | -38.89         | Vertical   |
| 8                      | 793.028            | -88.74                 | 41.01                          | -47.73                  | -13.00         | -34.73         | Vertical   |
| 9                      | 1658.000           | -60.72                 | 0.27                           | -60.45                  | -13.00         | -47.45         | Vertical   |
| 10                     | 2487.000           | -55.55                 | 3.64                           | -51.91                  | -13.00         | -38.91         | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 33.570             | -92.21                 | 33.49                          | -58.72                  | -13.00         | -45.72         | Horizontal |
| 2                      | 646.822            | -88.16                 | 39.37                          | -48.79                  | -13.00         | -35.79         | Horizontal |
| 3                      | 713.692            | -88.87                 | 40.54                          | -48.33                  | -13.00         | -35.33         | Horizontal |
| 4                      | 1673.000           | -59.23                 | 0.36                           | -58.87                  | -13.00         | -45.87         | Horizontal |
| 5                      | 2509.500           | -64.44                 | 3.71                           | -60.73                  | -13.00         | -47.73         | Horizontal |
| 6                      | 376.523            | -89.26                 | 32.82                          | -56.44                  | -13.00         | -43.44         | Vertical   |
| 7                      | 749.676            | -88.59                 | 40.76                          | -47.83                  | -13.00         | -34.83         | Vertical   |
| 8                      | 938.714            | -87.77                 | 42.94                          | -44.83                  | -13.00         | -31.83         | Vertical   |
| 9                      | 1673.000           | -61.11                 | 0.36                           | -60.75                  | -13.00         | -47.75         | Vertical   |
| 10                     | 2509.500           | -61.04                 | 3.71                           | -57.33                  | -13.00         | -44.33         | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 520.208            | -89.26                 | 36.39                          | -52.87                  | -13.00         | -39.87         | Horizontal |
| 2                      | 787.475            | -87.48                 | 40.98                          | -46.50                  | -13.00         | -33.50         | Horizontal |
| 3                      | 938.714            | -87.45                 | 42.94                          | -44.51                  | -13.00         | -31.51         | Horizontal |
| 4                      | 1688.000           | -59.42                 | 0.46                           | -58.96                  | -13.00         | -45.96         | Horizontal |
| 5                      | 2532.000           | -68.08                 | 3.76                           | -64.32                  | -13.00         | -51.32         | Horizontal |
| 6                      | 35.263             | -92.02                 | 33.83                          | -58.19                  | -13.00         | -45.19         | Vertical   |
| 7                      | 538.811            | -88.41                 | 37.03                          | -51.38                  | -13.00         | -38.38         | Vertical   |
| 8                      | 698.804            | -88.69                 | 40.36                          | -48.33                  | -13.00         | -35.33         | Vertical   |
| 9                      | 1688.000           | -60.57                 | 0.46                           | -60.11                  | -13.00         | -47.11         | Vertical   |
| 10                     | 2532.000           | -65.11                 | 3.76                           | -61.35                  | -13.00         | -48.35         | Vertical   |

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#### 5.8.4 LTE Band 7

| LTE Band 7_20 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 33.335             | -80.60                 | 4.72                           | -75.88                  | -25.00         | -50.88         | Horizontal |
| 2                      | 723.793            | -81.66                 | 11.38                          | -70.28                  | -25.00         | -45.28         | Horizontal |
| 3                      | 992.997            | -82.98                 | 14.78                          | -68.20                  | -25.00         | -43.20         | Horizontal |
| 4                      | 5020.000           | -67.81                 | 9.58                           | -58.23                  | -25.00         | -33.23         | Horizontal |
| 5                      | 7530.000           | -66.12                 | 13.67                          | -52.45                  | -25.00         | -27.45         | Horizontal |
| 6                      | 30.212             | -81.52                 | 5.17                           | -76.35                  | -25.00         | -51.35         | Vertical   |
| 7                      | 395.507            | -80.67                 | 4.99                           | -75.68                  | -25.00         | -50.68         | Vertical   |
| 8                      | 893.656            | -81.70                 | 13.85                          | -67.85                  | -25.00         | -42.85         | Vertical   |
| 9                      | 5020.000           | -69.34                 | 9.58                           | -59.76                  | -25.00         | -34.76         | Vertical   |
| 10                     | 7530.000           | -67.52                 | 13.67                          | -53.85                  | -25.00         | -28.85         | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 30.212             | -80.46                 | 5.17                           | -75.29                  | -25.00         | -50.29         | Horizontal |
| 2                      | 33.335             | -80.02                 | 4.72                           | -75.30                  | -25.00         | -50.30         | Horizontal |
| 3                      | 932.141            | -81.89                 | 14.11                          | -67.78                  | -25.00         | -42.78         | Horizontal |
| 4                      | 5070.000           | -65.07                 | 9.77                           | -55.30                  | -25.00         | -30.30         | Horizontal |
| 5                      | 7605.000           | -66.56                 | 13.78                          | -52.78                  | -25.00         | -27.78         | Horizontal |
| 6                      | 35.263             | -80.55                 | 5.02                           | -75.53                  | -25.00         | -50.53         | Vertical   |
| 7                      | 54.135             | -69.73                 | -7.12                          | -76.85                  | -25.00         | -51.85         | Vertical   |
| 8                      | 850.760            | -82.02                 | 12.97                          | -69.05                  | -25.00         | -44.05         | Vertical   |
| 9                      | 5070.000           | -64.81                 | 9.77                           | -55.04                  | -25.00         | -30.04         | Vertical   |
| 10                     | 7605.000           | -69.66                 | 13.78                          | -55.88                  | -25.00         | -30.88         | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 33.101             | -80.19                 | 4.76                           | -75.43                  | -25.00         | -50.43         | Horizontal |
| 2                      | 43.845             | -76.26                 | -0.81                          | -77.07                  | -25.00         | -52.07         | Horizontal |
| 3                      | 776.485            | -81.09                 | 11.55                          | -69.54                  | -25.00         | -44.54         | Horizontal |
| 4                      | 5120.000           | -67.04                 | 9.95                           | -57.09                  | -25.00         | -32.09         | Horizontal |
| 5                      | 7680.000           | -67.73                 | 13.86                          | -53.87                  | -25.00         | -28.87         | Horizontal |
| 6                      | 33.101             | -81.17                 | 4.76                           | -76.41                  | -25.00         | -51.41         | Vertical   |
| 7                      | 651.383            | -80.98                 | 9.96                           | -71.02                  | -25.00         | -46.02         | Vertical   |
| 8                      | 992.997            | -82.23                 | 14.78                          | -67.45                  | -25.00         | -42.45         | Vertical   |
| 9                      | 5120.000           | -66.10                 | 9.95                           | -56.15                  | -25.00         | -31.15         | Vertical   |
| 10                     | 7680.000           | -67.91                 | 13.86                          | -54.05                  | -25.00         | -29.05         | Vertical   |

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UTTR-RF-FCC4G-V1.1

### 5.8.5 LTE Band 12

| LTE Band 12_ 10 MHz_ QPSK |                    |                        |                                |                         |                |                |            |
|---------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                       | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 284.261            | -88.92                 | 30.40                          | -58.52                  | -13.00         | -45.52         | Horizontal |
| 2                         | 527.571            | -89.23                 | 36.51                          | -52.72                  | -13.00         | -39.72         | Horizontal |
| 3                         | 665.261            | -89.07                 | 39.81                          | -49.26                  | -13.00         | -36.26         | Horizontal |
| 4                         | 1401.000           | -46.34                 | -0.90                          | -47.24                  | -13.00         | -34.24         | Horizontal |
| 5                         | 2101.500           | -61.51                 | 2.40                           | -59.11                  | -13.00         | -46.11         | Horizontal |
| 6                         | 409.651            | -89.12                 | 33.91                          | -55.21                  | -13.00         | -42.21         | Vertical   |
| 7                         | 516.565            | -89.33                 | 36.45                          | -52.88                  | -13.00         | -39.88         | Vertical   |
| 8                         | 615.774            | -88.97                 | 38.58                          | -50.39                  | -13.00         | -37.39         | Vertical   |
| 9                         | 1401.000           | -49.41                 | -0.90                          | -50.31                  | -13.00         | -37.31         | Vertical   |
| 10                        | 2101.500           | -62.27                 | 2.40                           | -59.87                  | -13.00         | -46.87         | Vertical   |
| Middle Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 418.378            | -89.42                 | 33.95                          | -55.47                  | -13.00         | -42.47         | Horizontal |
| 2                         | 578.036            | -89.49                 | 37.45                          | -52.04                  | -13.00         | -39.04         | Horizontal |
| 3                         | 938.714            | -88.09                 | 42.94                          | -45.15                  | -13.00         | -32.15         | Horizontal |
| 4                         | 1415.000           | -44.45                 | -0.85                          | -45.30                  | -13.00         | -32.30         | Horizontal |
| 5                         | 2122.500           | -66.04                 | 2.45                           | -63.59                  | -13.00         | -50.59         | Horizontal |
| 6                         | 424.300            | -89.65                 | 34.10                          | -55.55                  | -13.00         | -42.55         | Vertical   |
| 7                         | 620.117            | -88.95                 | 38.58                          | -50.37                  | -13.00         | -37.37         | Vertical   |
| 8                         | 827.179            | -87.31                 | 41.56                          | -45.75                  | -13.00         | -32.75         | Vertical   |
| 9                         | 1415.000           | -54.36                 | -0.85                          | -55.21                  | -13.00         | -42.21         | Vertical   |
| 10                        | 2122.500           | -67.39                 | 2.45                           | -64.94                  | -13.00         | -51.94         | Vertical   |
| Highest Channel           |                    |                        |                                |                         |                |                |            |
| 1                         | 478.139            | -89.60                 | 35.31                          | -54.29                  | -13.00         | -41.29         | Horizontal |
| 2                         | 611.462            | -88.75                 | 38.43                          | -50.32                  | -13.00         | -37.32         | Horizontal |
| 3                         | 945.334            | -86.96                 | 42.96                          | -44.00                  | -13.00         | -31.00         | Horizontal |
| 4                         | 1429.000           | -56.95                 | -0.80                          | -57.75                  | -13.00         | -44.75         | Horizontal |
| 5                         | 2143.500           | -65.74                 | 2.48                           | -63.26                  | -13.00         | -50.26         | Horizontal |
| 6                         | 509.356            | -89.03                 | 36.46                          | -52.57                  | -13.00         | -39.57         | Vertical   |
| 7                         | 558.079            | -88.40                 | 37.15                          | -51.25                  | -13.00         | -38.25         | Vertical   |
| 8                         | 919.132            | -86.69                 | 42.85                          | -43.84                  | -13.00         | -30.84         | Vertical   |
| 9                         | 1429.000           | -55.78                 | -0.80                          | -56.58                  | -13.00         | -43.58         | Vertical   |
| 10                        | 2143.500           | -63.37                 | 2.48                           | -60.89                  | -13.00         | -47.89         | Vertical   |

### 5.8.6 LTE Band 17

| LTE Band 17_ 10 MHz_ QPSK |                    |                        |                                |                         |                |                |            |
|---------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                       | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 445.693            | -89.35                 | 34.27                          | -55.08                  | -13.00         | -42.08         | Horizontal |
| 2                         | 535.038            | -88.52                 | 37.02                          | -51.50                  | -13.00         | -38.50         | Horizontal |
| 3                         | 932.141            | -87.78                 | 42.91                          | -44.87                  | -13.00         | -31.87         | Horizontal |
| 4                         | 1418.000           | -44.72                 | -0.84                          | -45.56                  | -13.00         | -32.56         | Horizontal |
| 5                         | 2127.000           | -67.38                 | 2.45                           | -64.93                  | -13.00         | -51.93         | Horizontal |
| 6                         | 350.972            | -89.81                 | 32.83                          | -56.98                  | -13.00         | -43.98         | Vertical   |
| 7                         | 550.290            | -88.39                 | 37.07                          | -51.32                  | -13.00         | -38.32         | Vertical   |
| 8                         | 887.398            | -87.87                 | 42.64                          | -45.23                  | -13.00         | -32.23         | Vertical   |
| 9                         | 1418.000           | -54.21                 | -0.84                          | -55.05                  | -13.00         | -42.05         | Vertical   |
| 10                        | 2127.000           | -66.35                 | 2.45                           | -63.90                  | -13.00         | -50.90         | Vertical   |
| Middle Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 334.126            | -89.72                 | 32.11                          | -57.61                  | -13.00         | -44.61         | Horizontal |
| 2                         | 468.165            | -89.83                 | 35.10                          | -54.73                  | -13.00         | -41.73         | Horizontal |
| 3                         | 642.292            | -89.57                 | 39.29                          | -50.28                  | -13.00         | -37.28         | Horizontal |
| 4                         | 1420.000           | -44.63                 | -0.83                          | -45.46                  | -13.00         | -32.46         | Horizontal |
| 5                         | 2130.000           | -66.95                 | 2.45                           | -64.50                  | -13.00         | -51.50         | Horizontal |
| 6                         | 505.789            | -88.52                 | 36.38                          | -52.14                  | -13.00         | -39.14         | Vertical   |
| 7                         | 655.977            | -88.58                 | 39.52                          | -49.06                  | -13.00         | -36.06         | Vertical   |
| 8                         | 972.283            | -86.78                 | 43.08                          | -43.70                  | -13.00         | -30.70         | Vertical   |
| 9                         | 1420.000           | -55.44                 | -0.83                          | -56.27                  | -13.00         | -43.27         | Vertical   |
| 10                        | 2130.000           | -62.24                 | 2.45                           | -59.79                  | -13.00         | -46.79         | Vertical   |
| Highest Channel           |                    |                        |                                |                         |                |                |            |
| 1                         | 401.105            | -89.39                 | 33.81                          | -55.58                  | -13.00         | -42.58         | Horizontal |
| 2                         | 527.571            | -89.18                 | 36.51                          | -52.67                  | -13.00         | -39.67         | Horizontal |
| 3                         | 952.000            | -87.25                 | 42.99                          | -44.26                  | -13.00         | -31.26         | Horizontal |
| 4                         | 1422.000           | -54.95                 | -0.83                          | -55.78                  | -13.00         | -42.78         | Horizontal |
| 5                         | 2133.000           | -65.74                 | 2.46                           | -63.28                  | -13.00         | -50.28         | Horizontal |
| 6                         | 329.462            | -89.23                 | 32.01                          | -57.22                  | -13.00         | -44.22         | Vertical   |
| 7                         | 527.571            | -89.16                 | 36.51                          | -52.65                  | -13.00         | -39.65         | Vertical   |
| 8                         | 972.283            | -87.82                 | 43.08                          | -44.74                  | -13.00         | -31.74         | Vertical   |
| 9                         | 1422.000           | -54.95                 | -0.83                          | -55.78                  | -13.00         | -42.78         | Vertical   |
| 10                        | 2133.000           | -65.74                 | 2.46                           | -63.28                  | -13.00         | -50.28         | Vertical   |

### 5.8.7 LTE Band 66

| LTE Band 66_ 20 MHz_ QPSK |                    |                        |                                |                         |                |                |            |
|---------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                       | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 35.263             | -81.10                 | 5.02                           | -76.08                  | -13.00         | -63.08         | Horizontal |
| 2                         | 50.461             | -71.99                 | -5.14                          | -77.13                  | -13.00         | -64.13         | Horizontal |
| 3                         | 979.139            | -81.38                 | 14.44                          | -66.94                  | -13.00         | -53.94         | Horizontal |
| 4                         | 3440.000           | -67.90                 | 6.53                           | -61.37                  | -13.00         | -48.37         | Horizontal |
| 5                         | 5160.000           | -71.89                 | 10.10                          | -61.79                  | -13.00         | -48.79         | Horizontal |
| 6                         | 32.411             | -79.72                 | 4.82                           | -74.90                  | -13.00         | -61.90         | Vertical   |
| 7                         | 53.379             | -70.09                 | -6.95                          | -77.04                  | -13.00         | -64.04         | Vertical   |
| 8                         | 925.613            | -81.86                 | 14.06                          | -67.80                  | -13.00         | -54.80         | Vertical   |
| 9                         | 3440.000           | -66.18                 | 6.53                           | -59.65                  | -13.00         | -46.65         | Vertical   |
| 10                        | 5160.000           | -67.27                 | 10.10                          | -57.17                  | -13.00         | -44.17         | Vertical   |
| Middle Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 30.425             | -79.63                 | 5.13                           | -74.50                  | -13.00         | -61.50         | Horizontal |
| 2                         | 868.886            | -81.20                 | 13.20                          | -68.00                  | -13.00         | -55.00         | Horizontal |
| 3                         | 972.283            | -81.97                 | 14.39                          | -67.58                  | -13.00         | -54.58         | Horizontal |
| 4                         | 3490.000           | -65.35                 | 6.71                           | -58.64                  | -13.00         | -45.64         | Horizontal |
| 5                         | 5235.000           | -68.10                 | 10.44                          | -57.66                  | -13.00         | -44.66         | Horizontal |
| 6                         | 34.285             | -80.58                 | 4.81                           | -75.77                  | -13.00         | -62.77         | Vertical   |
| 7                         | 54.135             | -70.17                 | -7.12                          | -77.29                  | -13.00         | -64.29         | Vertical   |
| 8                         | 958.714            | -81.93                 | 14.29                          | -67.64                  | -13.00         | -54.64         | Vertical   |
| 9                         | 3490.000           | -65.58                 | 6.71                           | -58.87                  | -13.00         | -45.87         | Vertical   |
| 10                        | 5235.000           | -67.82                 | 10.44                          | -57.38                  | -13.00         | -44.38         | Vertical   |
| Highest Channel           |                    |                        |                                |                         |                |                |            |
| 1                         | 34.527             | -80.34                 | 4.99                           | -75.35                  | -13.00         | -62.35         | Horizontal |
| 2                         | 45.733             | -75.23                 | -2.11                          | -77.34                  | -13.00         | -64.34         | Horizontal |
| 3                         | 887.398            | -82.16                 | 13.71                          | -68.45                  | -13.00         | -55.45         | Horizontal |
| 4                         | 3540.000           | -66.93                 | 6.91                           | -60.02                  | -13.00         | -47.02         | Horizontal |
| 5                         | 5310.000           | -66.09                 | 10.85                          | -55.24                  | -13.00         | -42.24         | Horizontal |
| 6                         | 30.639             | -81.16                 | 5.09                           | -76.07                  | -13.00         | -63.07         | Vertical   |
| 7                         | 54.135             | -72.08                 | -7.12                          | -79.20                  | -13.00         | -66.20         | Vertical   |
| 8                         | 862.802            | -81.12                 | 13.09                          | -68.03                  | -13.00         | -55.03         | Vertical   |
| 9                         | 3540.000           | -67.03                 | 6.91                           | -60.12                  | -13.00         | -47.12         | Vertical   |
| 10                        | 5310.000           | -71.73                 | 10.85                          | -60.88                  | -13.00         | -47.88         | Vertical   |

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UTTR-RF-FCC4G-V1.1

## 5.9 FREQUENCY STABILITY

**Test Requirement:** FCC 47 CFR Part 2.1055 &  
FCC 47 CFR Part 22.355 &  
FCC 47 CFR Part 24.235 &  
FCC 47 CFR Part 27.54,

**Test Method:** ANSI C63.26-2015 & KDB 971168 D01v03r01

**Limits:**

### FCC 47 CFR Part 22.355

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.

### FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

**Test Setup:** Refer to section 4.2.2 for details.

#### Test Procedures:

- 1) Use CMW 500 or CMU 200 with Frequency Error measurement capability.
  - a) Temp. =  $-30^{\circ}$  to  $+50^{\circ}\text{C}$
  - b) Voltage = low voltage, 3.5 Vdc, Normal, 3.85 Vdc and High voltage, 4.45 Vdc.

#### 2) Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to  $20^{\circ}\text{C}$  and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by  $10^{\circ}\text{C}$  degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until  $+50^{\circ}\text{C}$  is reached.

#### 3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

**Equipment Used:** Refer to section 3 for details.

**Test Result:** Pass

### 5.9.1 LTE Band 2

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>( $^{\circ}\text{C}$ ) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Pass/ Fail |
|------------------------------|--------------------------------|------------------|---------------------------------------|-------------------|--------------------|----------------|------------|
| LTE Band 2 / 20MHz / Full RB |                                |                  |                                       |                   |                    |                |            |
| QPSK                         | 18900 /<br>1880.0              | VL               | TN                                    | -28.27            | -0.0150            | N/A            | Pass       |
|                              |                                | VN               |                                       | -25.22            | -0.0134            |                | Pass       |
|                              |                                | VH               |                                       | -31.53            | -0.0168            |                | Pass       |
|                              |                                | VN               | 50                                    | -39.35            | -0.0209            |                | Pass       |
|                              |                                |                  | 40                                    | -32.27            | -0.0172            |                | Pass       |
|                              |                                |                  | 30                                    | -26.99            | -0.0144            |                | Pass       |
|                              |                                |                  | 20                                    | -27.52            | -0.0146            |                | Pass       |
|                              |                                |                  | 10                                    | -25.19            | -0.0134            |                | Pass       |
|                              |                                |                  | 0                                     | -31.2             | -0.0166            |                | Pass       |
|                              |                                |                  | -10                                   | -38.96            | -0.0207            |                | Pass       |
|                              |                                |                  | -20                                   | -31.61            | -0.0168            |                | Pass       |
|                              |                                |                  | -30                                   | -26.15            | -0.0139            |                | Pass       |

### 5.9.2 LTE Band 4

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Pass/ Fail |
|------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|------------|
| LTE Band 4 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |            |
| QPSK                         | 20175 /<br>1732.5              | VL               | TN                  | -22.62            | -0.0131            | N/A            | Pass       |
|                              |                                | VN               |                     | -29.47            | -0.0170            |                | Pass       |
|                              |                                | VH               |                     | -21.37            | -0.0123            |                | Pass       |
|                              |                                | VN               | 50                  | -27.68            | -0.0160            |                | Pass       |
|                              |                                |                  | 40                  | -15.23            | -0.0088            |                | Pass       |
|                              |                                |                  | 30                  | -14.06            | -0.0081            |                | Pass       |
|                              |                                |                  | 20                  | -23.40            | -0.0135            |                | Pass       |
|                              |                                |                  | 10                  | -29.74            | -0.0172            |                | Pass       |
|                              |                                |                  | 0                   | -20.47            | -0.0118            |                | Pass       |
|                              |                                |                  | -10                 | -28.31            | -0.0163            |                | Pass       |
|                              |                                |                  | -20                 | -15.68            | -0.0091            |                | Pass       |
|                              |                                |                  | -30                 | -14.63            | -0.0084            |                | Pass       |

### 5.9.3 LTE Band 5

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 5 / 10MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                         | 20525 /<br>836.5               | VL               | TN                  | -11.23            | -0.0134            | ± 2.5          | Pass   |
|                              |                                | VN               |                     | -15.12            | -0.0181            | ± 2.5          | Pass   |
|                              |                                | VH               |                     | -17.67            | -0.0211            | ± 2.5          | Pass   |
|                              |                                | VN               | 50                  | -33.45            | -0.0400            | ± 2.5          | Pass   |
|                              |                                |                  | 40                  | -34.42            | -0.0411            | ± 2.5          | Pass   |
|                              |                                |                  | 30                  | -29.40            | -0.0351            | ± 2.5          | Pass   |
|                              |                                |                  | 20                  | -11.23            | -0.0134            | ± 2.5          | Pass   |
|                              |                                |                  | 10                  | -15.87            | -0.0190            | ± 2.5          | Pass   |
|                              |                                |                  | 0                   | -18.12            | -0.0217            | ± 2.5          | Pass   |
|                              |                                |                  | -10                 | -33.33            | -0.0398            | ± 2.5          | Pass   |
|                              |                                |                  | -20                 | -35.23            | -0.0421            | ± 2.5          | Pass   |
|                              |                                |                  | -30                 | -29.13            | -0.0348            | ± 2.5          | Pass   |

### 5.9.4 LTE Band 7

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 7 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                         | 21100 /<br>2535                | VL               | TN                  | -26.75            | -0.0106            | N/A            | Pass   |
|                              |                                | VN               |                     | -30.41            | -0.0120            |                | Pass   |
|                              |                                | VH               |                     | -23.49            | -0.0093            |                | Pass   |
|                              |                                | VN               | 50                  | -28.97            | -0.0114            |                | Pass   |
|                              |                                |                  | 40                  | -26.91            | -0.0106            |                | Pass   |
|                              |                                |                  | 30                  | -37.65            | -0.0149            |                | Pass   |
|                              |                                |                  | 20                  | -27.59            | -0.0109            |                | Pass   |
|                              |                                |                  | 10                  | -29.99            | -0.0118            |                | Pass   |
|                              |                                |                  | 0                   | -23.49            | -0.0093            |                | Pass   |
|                              |                                |                  | -10                 | -28.85            | -0.0114            |                | Pass   |
|                              |                                |                  | -20                 | -26.22            | -0.0103            |                | Pass   |
|                              |                                |                  | -30                 | -37.59            | -0.0148            |                | Pass   |

### 5.9.5 LTE Band 12

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 12 / 10MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 23095 /<br>707.5               | VL               | TN                  | -30.25            | -0.0428            | N/A            | Pass   |
|                               |                                | VN               |                     | -24.50            | -0.0346            |                | Pass   |
|                               |                                | VH               |                     | -30.32            | -0.0429            |                | Pass   |
|                               |                                | VN               | 50                  | -29.43            | -0.0416            |                | Pass   |
|                               |                                |                  | 40                  | -26.34            | -0.0372            |                | Pass   |
|                               |                                |                  | 30                  | -23.44            | -0.0331            |                | Pass   |
|                               |                                |                  | 20                  | -32.23            | -0.0456            |                | Pass   |
|                               |                                |                  | 10                  | -25.01            | -0.0353            |                | Pass   |
|                               |                                |                  | 0                   | -30.99            | -0.0438            |                | Pass   |
|                               |                                |                  | -10                 | -40.10            | -0.0567            |                | Pass   |
|                               |                                |                  | -20                 | -31.85            | -0.0450            |                | Pass   |
|                               |                                |                  | -30                 | -27.11            | -0.0383            |                | Pass   |

### 5.9.6 LTE Band 17

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 17 / 10MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 23790 / 710                    | VL               | TN                  | -23.33            | -0.0298            | N/A            | Pass   |
|                               |                                | VN               |                     | -24.23            | -0.0310            |                | Pass   |
|                               |                                | VH               |                     | -26.34            | -0.0337            |                | Pass   |
|                               |                                | VN               | 50                  | -30.33            | -0.0388            |                | Pass   |
|                               |                                |                  | 40                  | -32.54            | -0.0416            |                | Pass   |
|                               |                                |                  | 30                  | -28.34            | -0.0362            |                | Pass   |
|                               |                                |                  | 20                  | -27.58            | -0.0353            |                | Pass   |
|                               |                                |                  | 10                  | -24.32            | -0.0311            |                | Pass   |
|                               |                                |                  | 0                   | -31.98            | -0.0409            |                | Pass   |
|                               |                                |                  | -10                 | -38.99            | -0.0499            |                | Pass   |
|                               |                                |                  | -20                 | -32.84            | -0.0420            |                | Pass   |
|                               |                                |                  | -30                 | -27.74            | -0.0355            |                | Pass   |

### 5.9.7 LTE Band 66

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 66 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 132322 /<br>1745               | VL               | TN                  | -24.39            | -0.0140            | N/A            | Pass   |
|                               |                                | VN               |                     | -16.85            | -0.0097            |                | Pass   |
|                               |                                | VH               |                     | -24.1             | -0.0138            |                | Pass   |
|                               |                                | VN               | 50                  | -28.72            | -0.0165            |                | Pass   |
|                               |                                |                  | 40                  | -30.73            | -0.0176            |                | Pass   |
|                               |                                |                  | 30                  | -20.37            | -0.0117            |                | Pass   |
|                               |                                |                  | 20                  | -24.45            | -0.0140            |                | Pass   |
|                               |                                |                  | 10                  | -16.82            | -0.0096            |                | Pass   |
|                               |                                |                  | 0                   | -23.32            | -0.0134            |                | Pass   |
|                               |                                |                  | -10                 | -29.14            | -0.0167            |                | Pass   |
|                               |                                |                  | -20                 | -30.34            | -0.0174            |                | Pass   |
|                               |                                |                  | -30                 | -20.01            | -0.0115            |                | Pass   |

## APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

## APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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