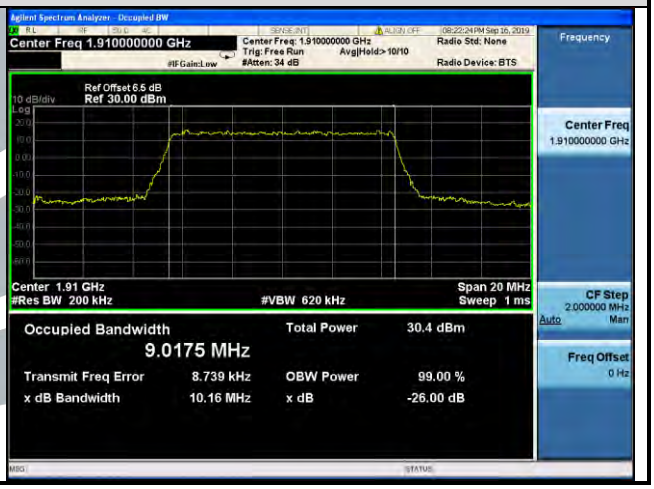
## LTE Band 25_ Channel Bandwidth: 10 MHz

| QPSK | 16QAM |
|---|---|

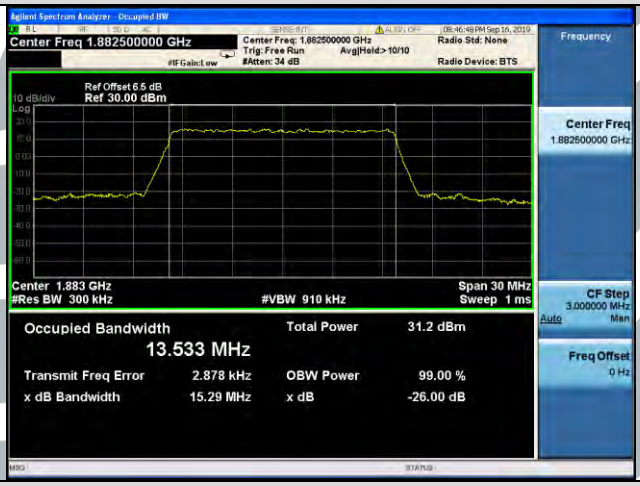
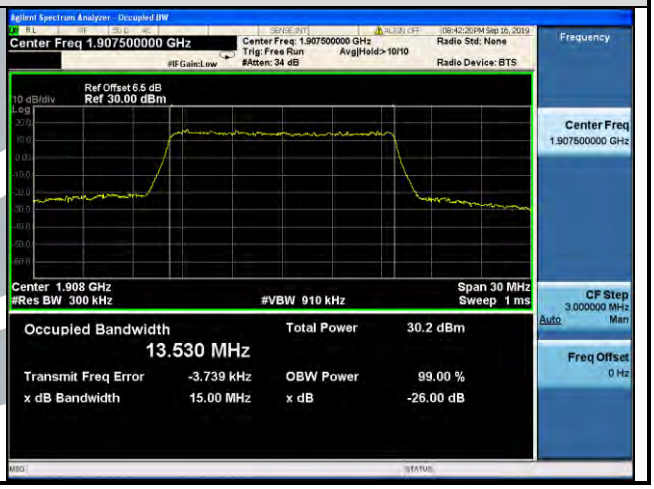
### Lowest Channel

### Middle Channel

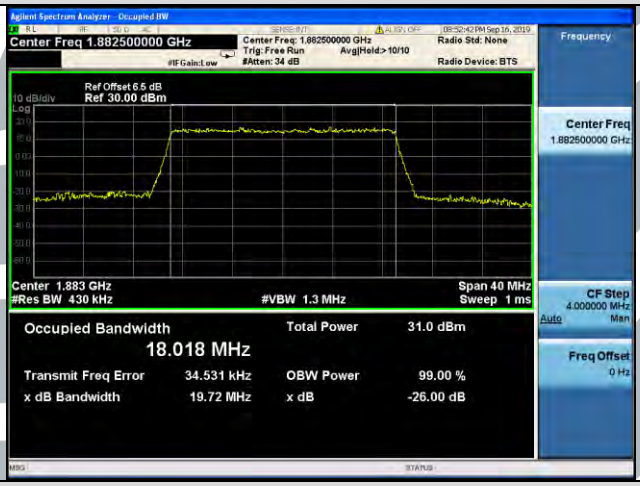
### Highest Channel



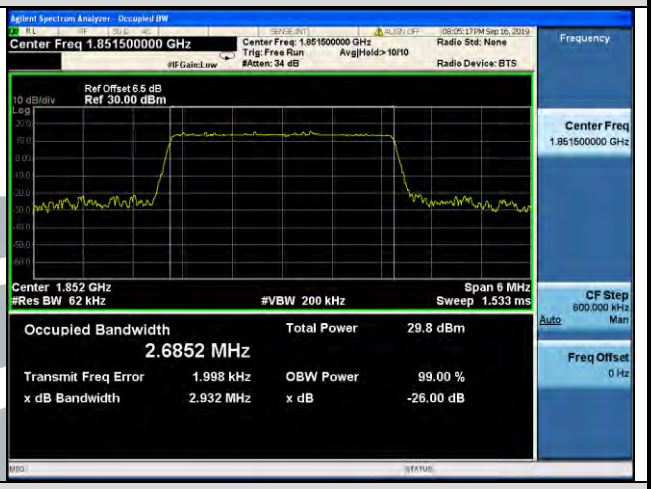
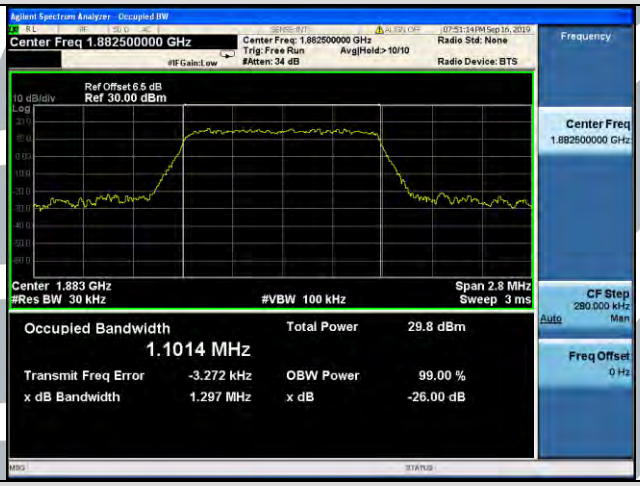
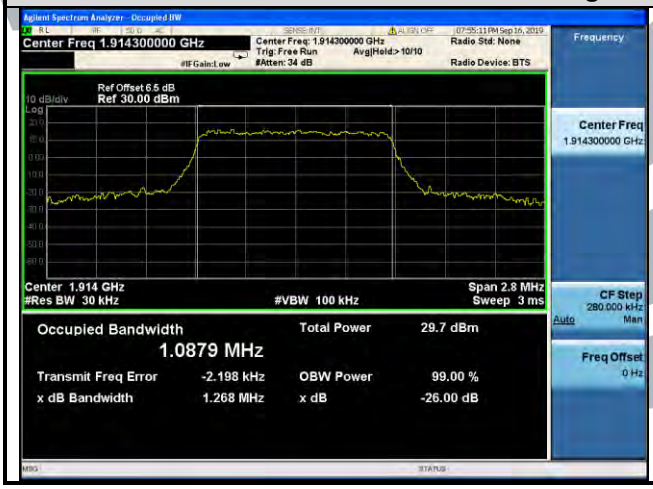
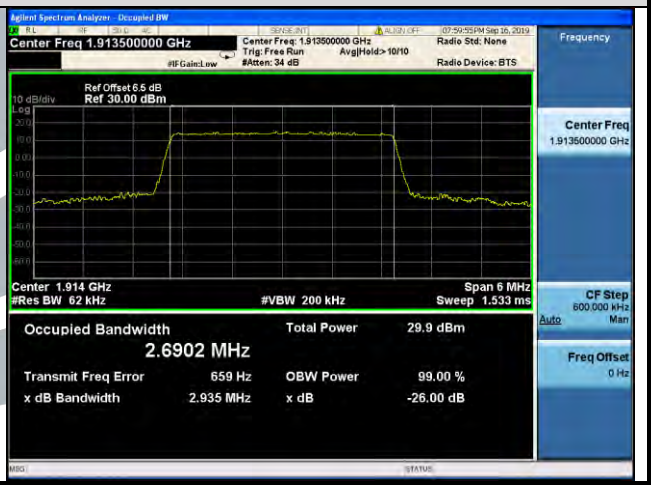
## LTE Band 25_ Channel Bandwidth: 15 MHz

| QPSK | 16QAM |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
| |  |

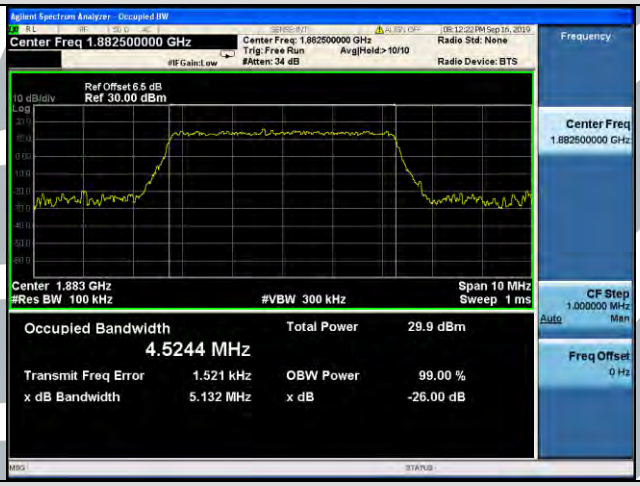
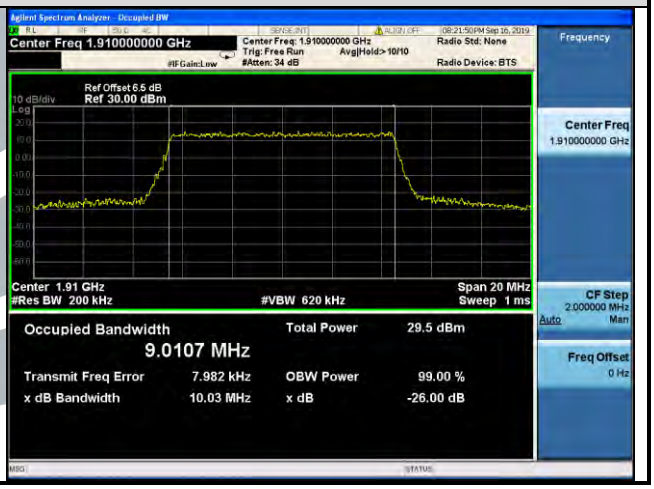
## LTE Band 25_ Channel Bandwidth: 20 MHz

| QPSK | 16QAM |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
| | |

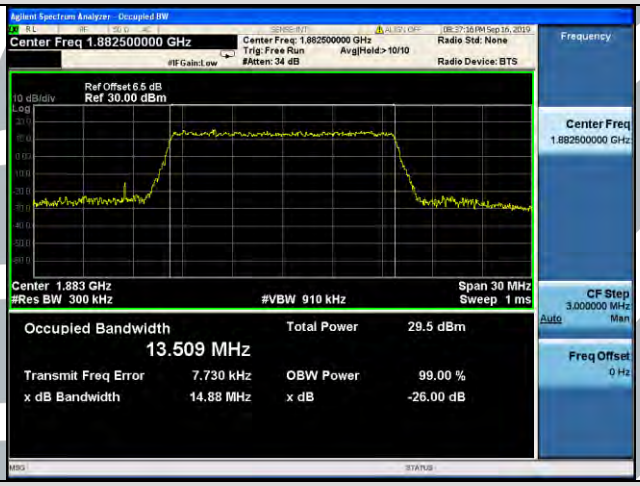
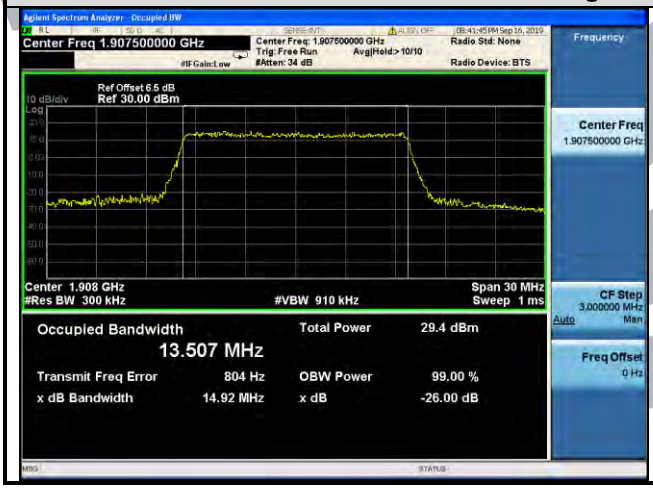
## LTE Band 25_ 64QAM

| Channel Bandwidth 1.4M | Channel Bandwidth 3M |
|---|---|
| **Lowest Channel** | |
| |  |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
|  |  |

## LTE Band 25_ 64QAM

| Channel Bandwidth 5M | Channel Bandwidth 10M |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
| |  |

## LTE Band 25_ 64QAM

| Channel Bandwidth 15M | Channel Bandwidth 20M |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
|  | |

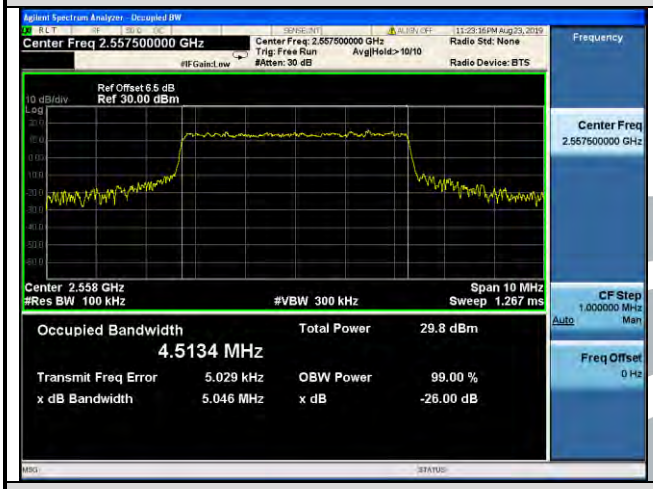
### 5.5.9 LTE Band 41

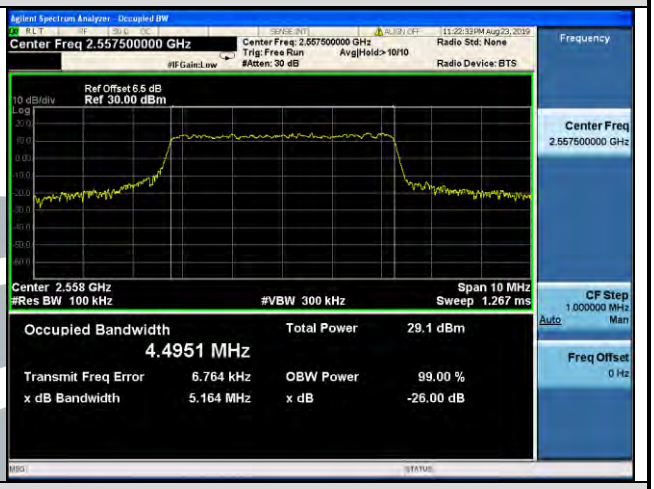
| LTE Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | RB Configuration | | 26 dB BW (MHz) | | | 99% BW (MHz) | | |
| | Size | Offset | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| **Channel Bandwidth: 5 MHz** | | | | | | | | |
| Lowest | 25 | 0 | 5.046 | 5.164 | 5.139 | 4.5134 | 4.4951 | 4.4973 |
| Middle | 25 | 0 | 5.173 | 5.017 | 4.928 | 4.4998 | 4.4958 | 4.4959 |
| Highest | 25 | 0 | 4.933 | 5.155 | 5.163 | 4.4936 | 4.4978 | 4.4944 |
| **Channel Bandwidth: 10 MHz** | | | | | | | | |
| Lowest | 50 | 0 | 10.30 | 10.12 | 9.672 | 9.0031 | 8.9762 | 8.9723 |
| Middle | 50 | 0 | 10.27 | 9.915 | 9.829 | 8.9882 | 8.9627 | 8.9671 |
| Highest | 50 | 0 | 10.49 | 9.991 | 9.945 | 8.9910 | 8.9921 | 8.9935 |
| **Channel Bandwidth: 15 MHz** | | | | | | | | |
| Lowest | 75 | 0 | 14.79 | 15.93 | 15.53 | 13.477 | 13.481 | 13.483 |
| Middle | 75 | 0 | 14.74 | 15.50 | 15.43 | 13.459 | 13.511 | 13.484 |
| Highest | 75 | 0 | 15.00 | 15.71 | 15.26 | 13.450 | 13.511 | 13.496 |
| **Channel Bandwidth: 20 MHz** | | | | | | | | |
| Lowest | 100 | 0 | 19.61 | 19.35 | 19.24 | 17.963 | 17.936 | 17.926 |
| Middle | 100 | 0 | 19.32 | 21.46 | 22.17 | 17.941 | 17.991 | 18.005 |
| Highest | 100 | 0 | 20.05 | 19.44 | 20.24 | 18.028 | 17.964 | 17.942 |

## LTE Band 41_ Channel Bandwidth: 5 MHz

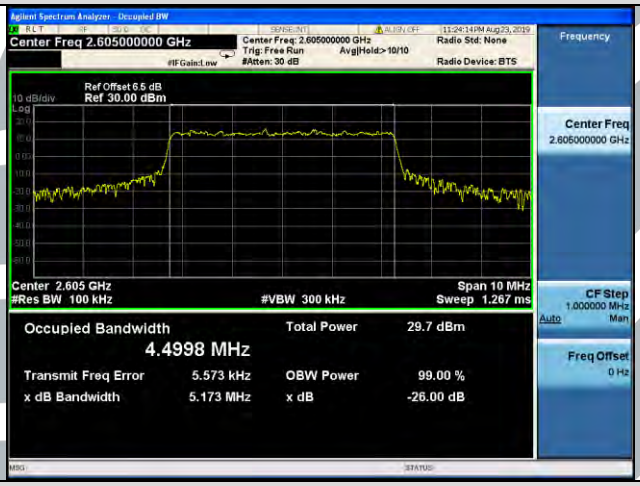
| QPSK | 16QAM |
|---|---|

### Lowest Channel

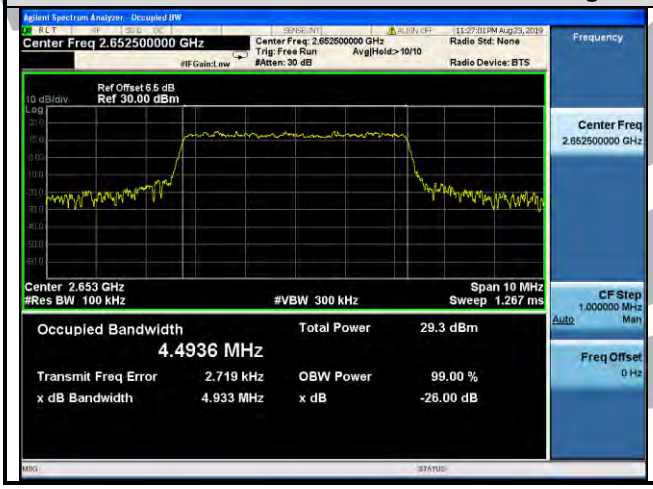


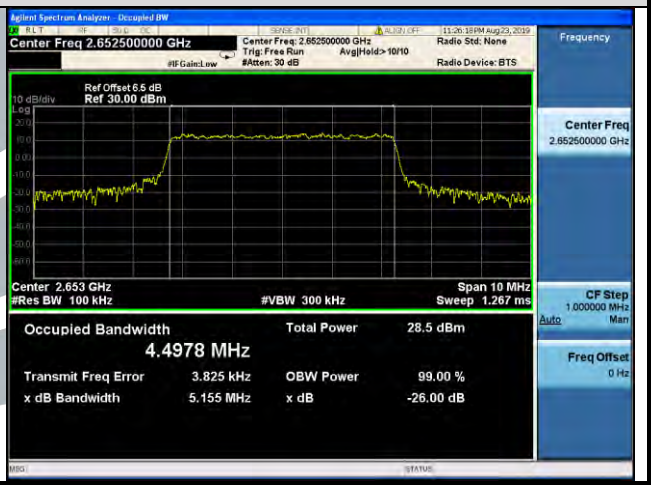




### Middle Channel



### Highest Channel

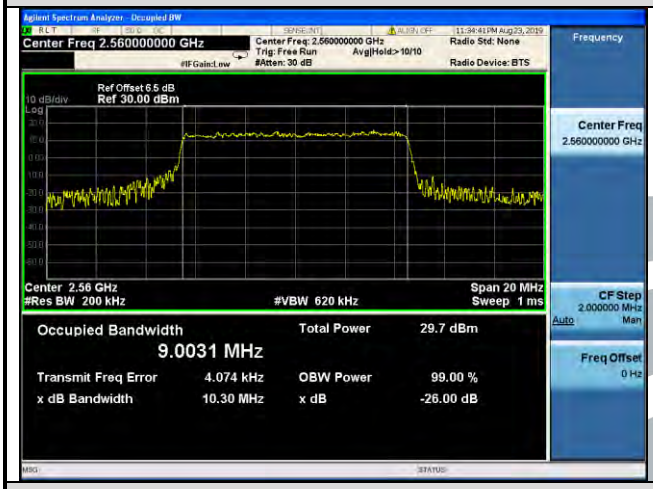


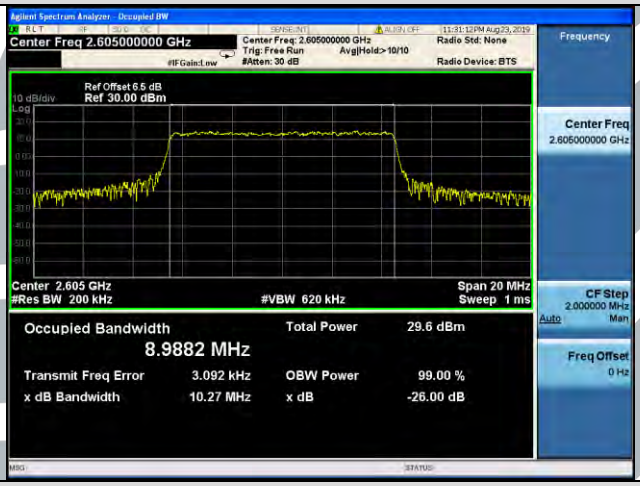
## LTE Band 41_ Channel Bandwidth: 10 MHz

| QPSK | 16QAM |
|---|---|

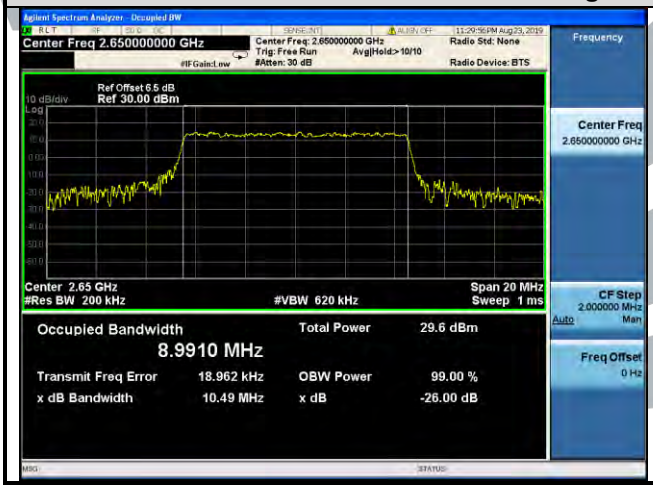
### Lowest Channel



### Middle Channel



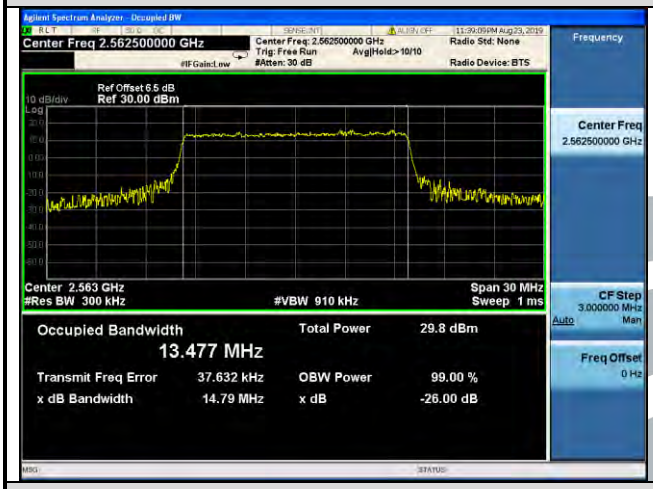
### Highest Channel



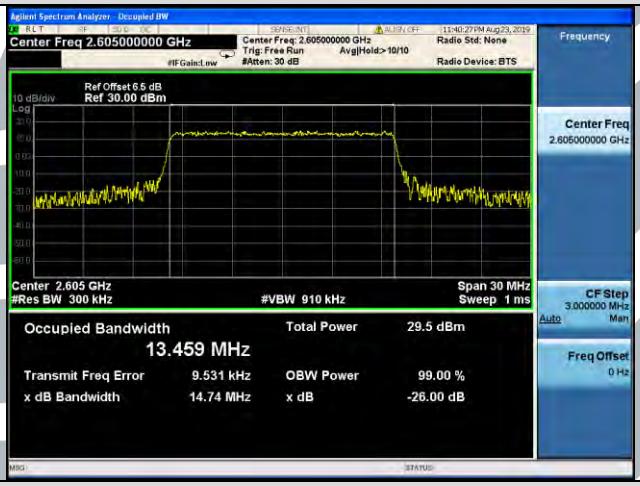
## LTE Band 41_ Channel Bandwidth: 15 MHz

| QPSK | 16QAM |
|---|---|

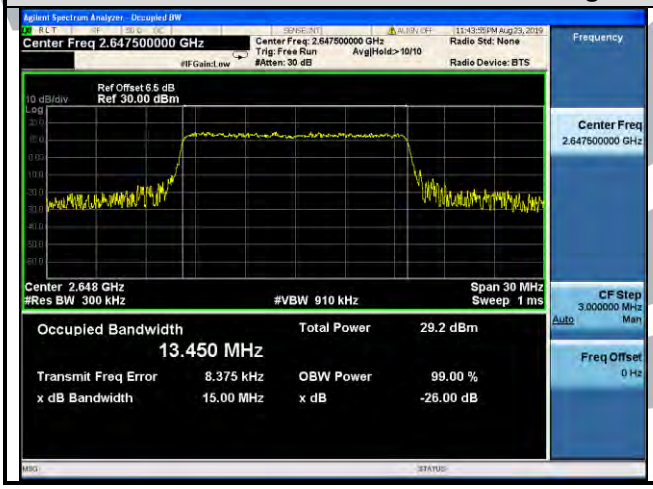
### Lowest Channel

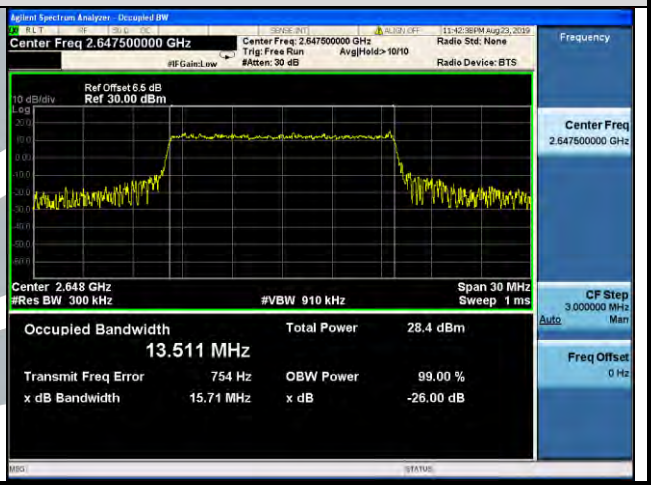


### Middle Channel

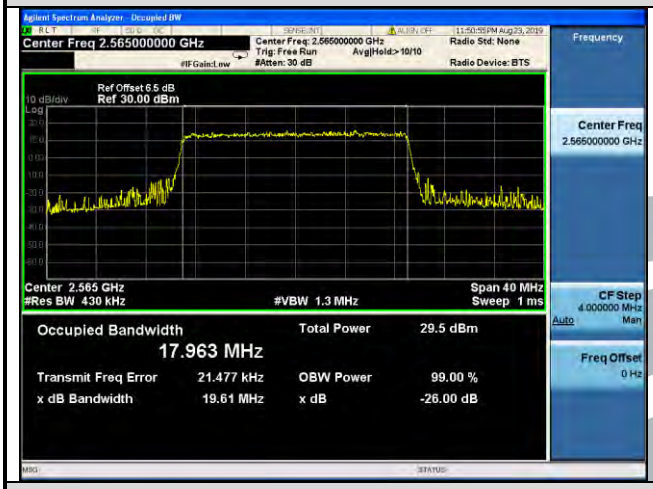
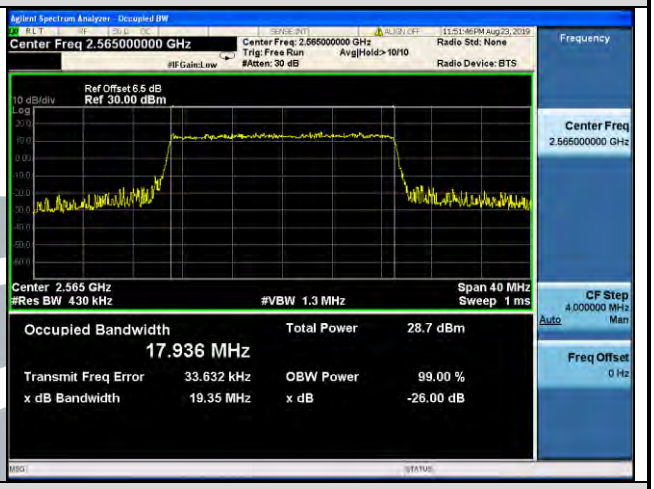
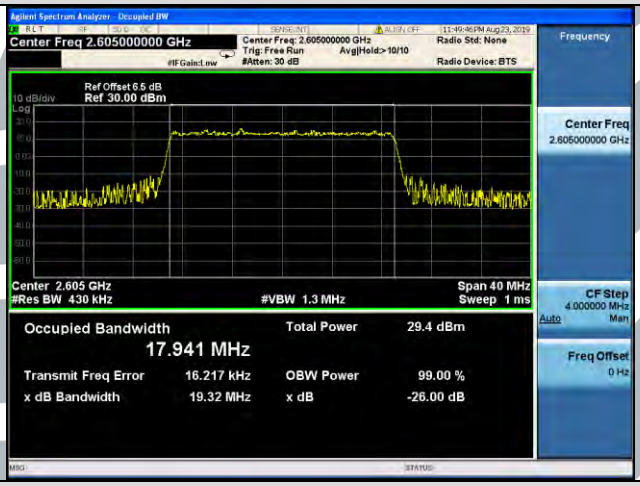
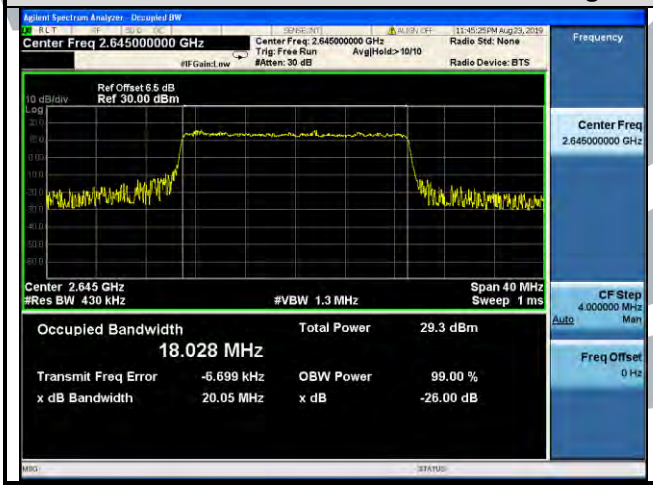
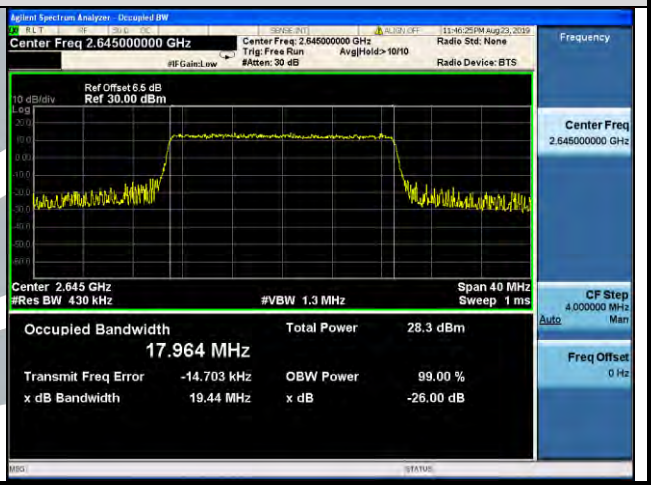


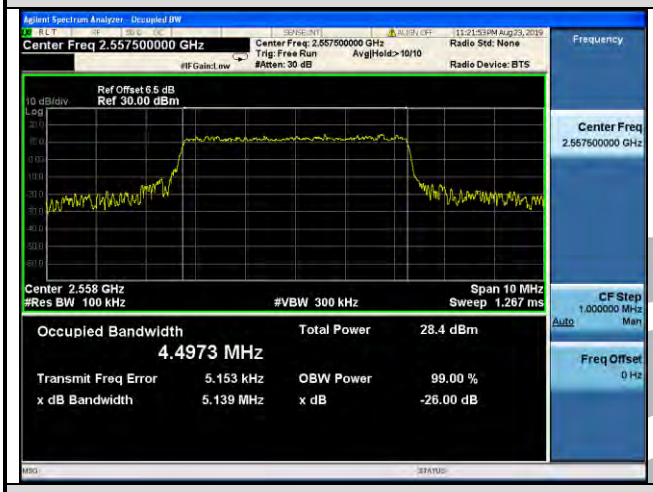
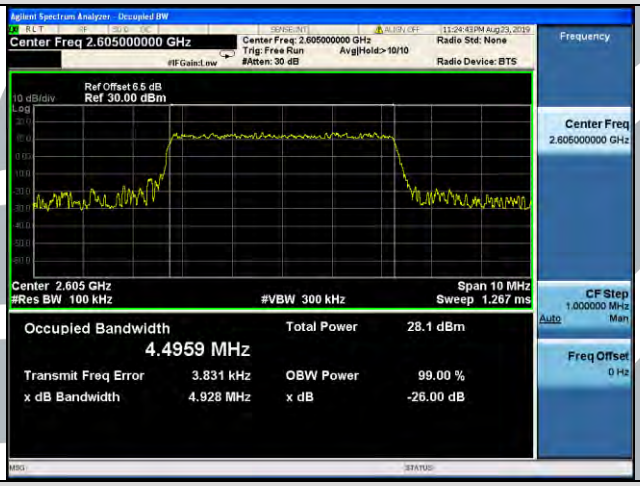
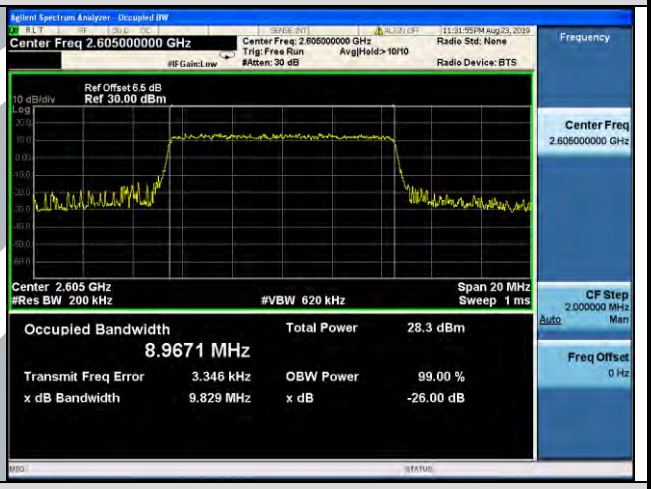
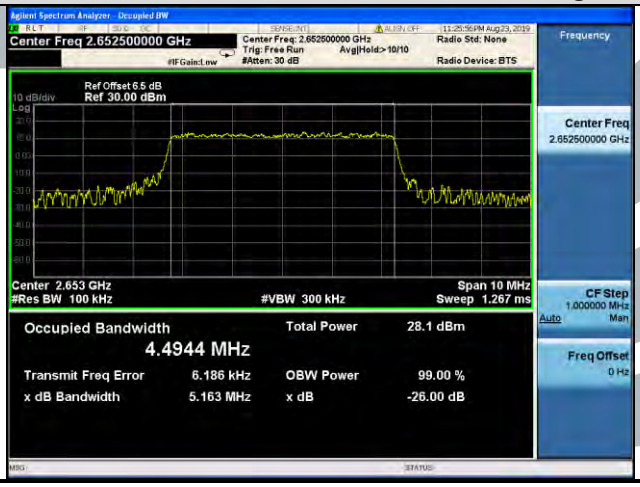
### Highest Channel

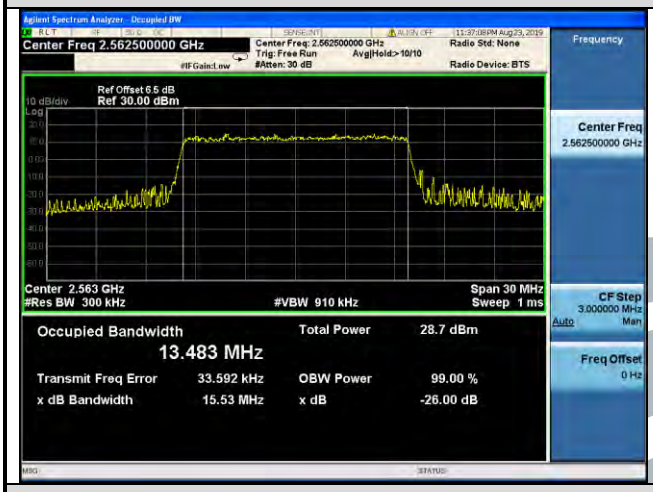
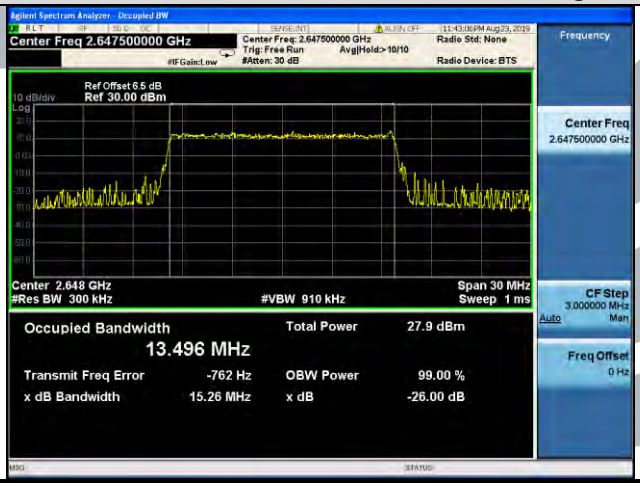


## LTE Band 41_ Channel Bandwidth: 20 MHz

| QPSK | 16QAM |
|---|---|
| **Lowest Channel** | |
|  |  |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
|  |  |

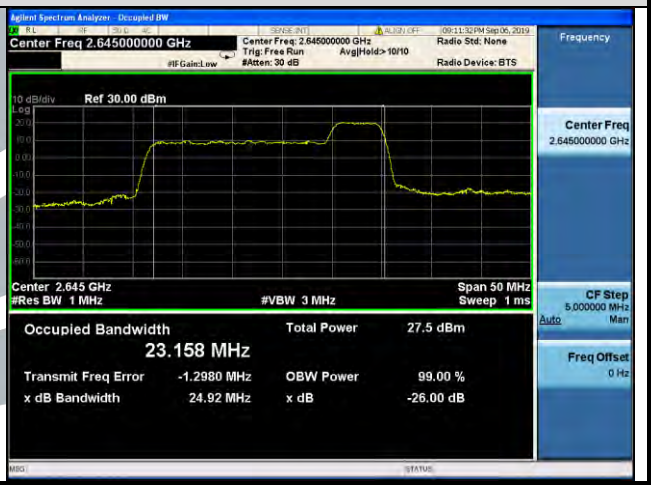
| LTE Band 41 / 5MHz / 64QAM | LTE Band 41 / 10MHz / 64QAM |
|---|---|
| **Lowest Channel** | |
|  | |
| **Middle Channel** | |
|  |  |
| **Highest Channel** | |
|  | |

| LTE Band 41 / 15MHz / 64QAM | LTE Band 41 / 20MHz / 64QAM |
|---|---|
| **Lowest Channel** | |
|  | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
|  | |

### 5.5.10 LTE Band 41 CA

| LTE Band 41 CA | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | RB Allocation/RB Offset | 26 dB BW (MHz) | | | 99% BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Channel Bandwidth: 5+20MHz | | | | | | | |
| Lowest | 25/0+100/0 | 24.99 | 24.86 | 24.85 | 23.229 | 23.096 | 23.032 |
| Middle | | 25.02 | 24.88 | 24.83 | 23.242 | 23.075 | 23.006 |
| Highest | | 24.99 | 24.92 | 24.82 | 23.262 | 23.158 | 23.150 |
| Channel Bandwidth: 20+5MHz | | | | | | | |
| Lowest | 100/0+25/0 | 25.28 | 25.18 | 25.17 | 23.165 | 23.106 | 23.022 |
| Middle | | 25.27 | 25.24 | 25.23 | 23.116 | 23.119 | 23.016 |
| Highest | | 25.23 | 25.21 | 25.09 | 23.081 | 23.032 | 23.039 |
| Channel Bandwidth: 10+20MHz | | | | | | | |
| Lowest | 50/0+100/0 | 29.92 | 29.83 | 29.77 | 27.932 | 27.683 | 27.680 |
| Middle | | 29.92 | 29.81 | 29.82 | 27.915 | 27.643 | 27.654 |
| Highest | | 29.91 | 29.87 | 29.83 | 27.839 | 27.807 | 27.833 |
| Channel Bandwidth: 20+10MHz | | | | | | | |
| Lowest | 100/0+50/0 | 30.13 | 30.15 | 30.01 | 27.812 | 27.848 | 27.820 |
| Middle | | 30.13 | 30.12 | 30.15 | 27.817 | 27.848 | 27.883 |
| Highest | | 30.23 | 30.24 | 30.16 | 27.916 | 27.898 | 27.891 |
| Channel Bandwidth: 15+15MHz | | | | | | | |
| Lowest | 75/0+75/0 | 30.58 | 30.53 | 30.46 | 28.350 | 28.420 | 28.346 |
| Middle | | 30.66 | 30.66 | 30.57 | 28.343 | 28.474 | 28.398 |
| Highest | | 30.59 | 35.56 | 30.46 | 28.382 | 28.442 | 28.418 |
| Channel Bandwidth: 15+20MHz | | | | | | | |
| Lowest | 75/0+100/0 | 34.86 | 34.81 | 34.79 | 32.542 | 32.469 | 32.517 |
| Middle | | 34.94 | 34.98 | 34.87 | 32.533 | 32.531 | 32.547 |
| Highest | | 34.97 | 34.84 | 34.84 | 32.634 | 32.588 | 32.584 |
| Channel Bandwidth: 20+15MHz | | | | | | | |
| Lowest | 100/0+75/0 | 34.95 | 34.99 | 34.97 | 32.538 | 32.646 | 32.616 |
| Middle | | 35.00 | 35.10 | 35.02 | 32.513 | 32.602 | 32.615 |
| Highest | | 35.12 | 35.03 | 34.91 | 32.641 | 32.543 | 32.571 |
| Channel Bandwidth: 20+20MHz | | | | | | | |
| Lowest | 100/0+100/0 | 39.99 | 39.88 | 39.96 | 37.520 | 37.489 | 37.547 |
| Middle | | 40.03 | 40.04 | 39.90 | 37.458 | 37.325 | 37.347 |
| Highest | | 40.10 | 40.06 | 39.95 | 37.526 | 37.505 | 37.511 |
| Channel Bandwidth: 10+15MHz | | | | | | | |
| Lowest | 50/0+75/0 | 25.39 | 25.33 | 25.21 | 23.361 | 23.234 | 23.281 |
| Middle | | 25.31 | 25.27 | 25.23 | 13.294 | 23.260 | 23.226 |
| Highest | | 25.24 | 25.21 | 25.18 | 23.287 | 23.160 | 23.144 |
| Channel Bandwidth: 15+10MHz | | | | | | | |
| Lowest | 75/0+50/0 | 25.39 | 25.48 | 25.28 | 23.382 | 23.352 | 23.350 |
| Middle | | 25.55 | 25.50 | 25.32 | 23.425 | 23.362 | 23.311 |
| Highest | | 25.39 | 25.29 | 25.31 | 23.308 | 23.316 | 23.304 |

## LTE Band 41 UL CA_ Channel Bandwidth: 5+20 MHz

| QPSK | 16QAM |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| |  |

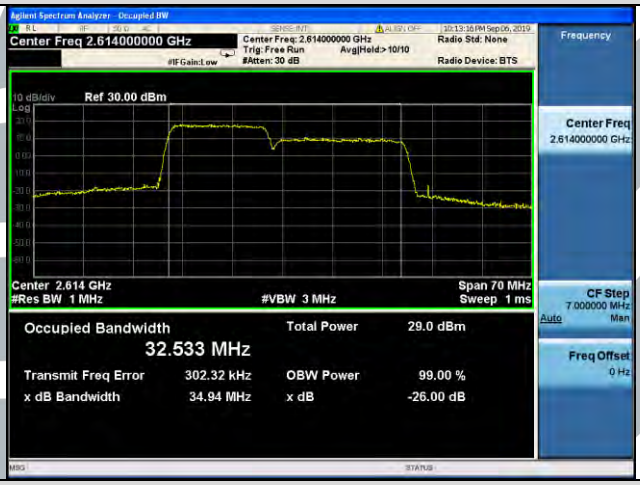
| LTE Band 41 UL CA_ Channel Bandwidth: 20+5 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

## LTE Band 41 UL CA_ Channel Bandwidth: 10+20 MHz

| QPSK | 16QAM |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ Channel Bandwidth: 20+10 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

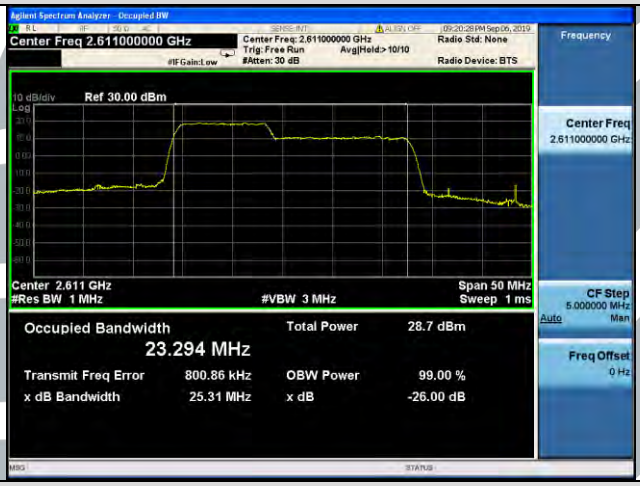
| LTE Band 41 UL CA_ Channel Bandwidth: 15+15 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ Channel Bandwidth: 15+20 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ Channel Bandwidth: 20+15 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

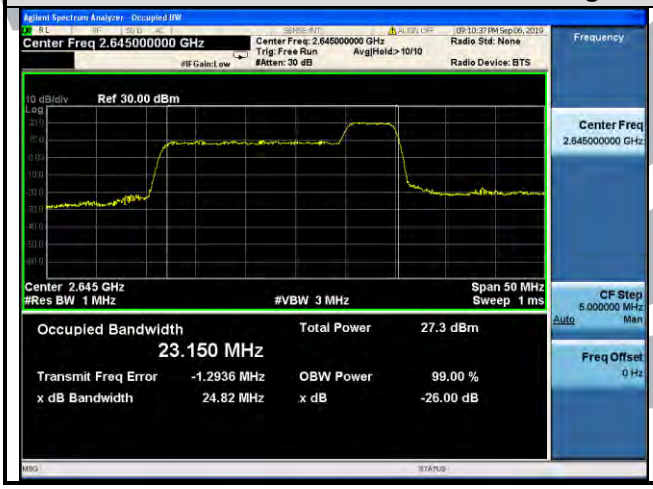
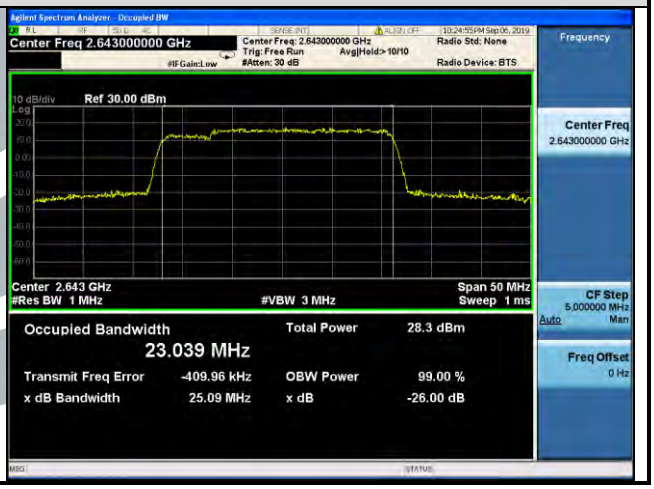
## LTE Band 41 UL CA_ Channel Bandwidth: 20+20 MHz

| QPSK | 16QAM |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ Channel Bandwidth: 10+15 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
|  | |
| **Highest Channel** | |
| | |

## LTE Band 41 UL CA_ Channel Bandwidth: 15+10 MHz

| QPSK | 16QAM |
|---|---|
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ 64QAM | |
|---|---|
| **Channel Bandwidth: 5+20 MHz** | **Channel Bandwidth: 20+5 MHz** |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
|  |  |

| LTE Band 41 UL CA_ 64QAM | |
|---|---|
| **Channel Bandwidth: 10+20 MHz** | **Channel Bandwidth: 20+10 MHz** |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ 64QAM | |
|---|---|
| **Channel Bandwidth: 15+20 MHz** | **Channel Bandwidth: 20+15 MHz** |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ 64QAM | |
|---|---|
| **Channel Bandwidth: 15+15 MHz** | **Channel Bandwidth: 20+20 MHz** |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

| LTE Band 41 UL CA_ 64QAM | |
|---|---|
| **Channel Bandwidth: 10+15 MHz** | **Channel Bandwidth: 15+10 MHz** |
| **Lowest Channel** | |
| | |
| **Middle Channel** | |
| | |
| **Highest Channel** | |
| | |

### 5.5.11 LTE Band 66

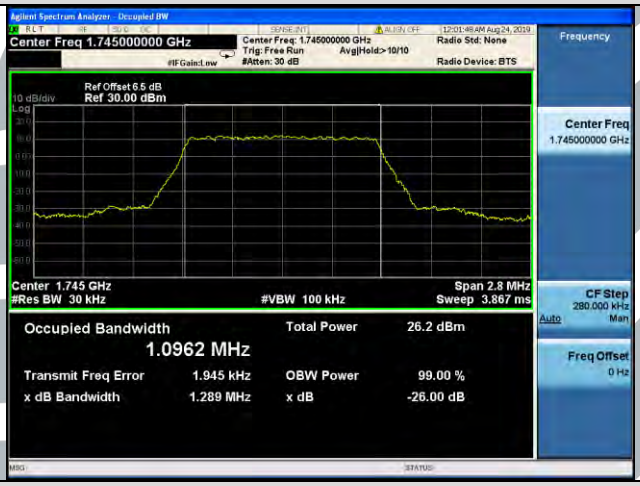
| LTE Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | RB Configuration | | 26 dB BW (MHz) | | | 99% BW (MHz) | | |
| | Size | Offset | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Channel Bandwidth: 1.4 MHz | | | | | | | | |
| Lowest | 6 | 0 | 1.285 | 1.309 | 1.312 | 1.0910 | 1.0980 | 1.0968 |
| Middle | 6 | 0 | 1.289 | 1.280 | 1.270 | 1.0962 | 1.0925 | 1.0917 |
| Highest | 6 | 0 | 1.282 | 1.290 | 1.280 | 1.1025 | 1.0926 | 1.0923 |
| Channel Bandwidth: 3 MHz | | | | | | | | |
| Lowest | 15 | 0 | 2.919 | 2.921 | 2.930 | 2.6946 | 2.6864 | 2.6836 |
| Middle | 15 | 0 | 2.927 | 2.928 | 2.926 | 2.6944 | 2.6894 | 2.6880 |
| Highest | 15 | 0 | 2.924 | 2.933 | 2.928 | 2.6896 | 2.6873 | 2.6848 |
| Channel Bandwidth: 5 MHz | | | | | | | | |
| Lowest | 25 | 0 | 5.178 | 5.174 | 5.136 | 4.5295 | 4.5153 | 4.5115 |
| Middle | 25 | 0 | 5.199 | 5.120 | 5.176 | 4.5158 | 4.5363 | 4.5212 |
| Highest | 25 | 0 | 5.167 | 5.224 | 5.207 | 4.5113 | 4.5404 | 4.5334 |
| Channel Bandwidth: 10 MHz | | | | | | | | |
| Lowest | 50 | 0 | 10.18 | 10.09 | 10.06 | 9.0222 | 9.0107 | 8.9963 |
| Middle | 50 | 0 | 10.14 | 10.14 | 10.12 | 9.0100 | 9.0129 | 8.9953 |
| Highest | 50 | 0 | 10.07 | 10.10 | 10.04 | 8.9945 | 9.0092 | 9.0047 |
| Channel Bandwidth: 15 MHz | | | | | | | | |
| Lowest | 75 | 0 | 15.13 | 14.97 | 14.93 | 13.527 | 13.515 | 13.499 |
| Middle | 75 | 0 | 15.09 | 15.05 | 15.02 | 13.472 | 13.505 | 13.506 |
| Highest | 75 | 0 | 15.19 | 14.96 | 14.88 | 13.507 | 13.495 | 13.498 |
| Channel Bandwidth: 20 MHz | | | | | | | | |
| Lowest | 100 | 0 | 19.70 | 19.65 | 19.85 | 17.969 | 17.998 | 18.005 |
| Middle | 100 | 0 | 19.67 | 19.79 | 19.81 | 18.024 | 18.053 | 18.060 |
| Highest | 100 | 0 | 19.81 | 19.80 | 19.72 | 18.045 | 18.021 | 18.023 |

## LTE Band 66_ Channel Bandwidth: 1.4 MHz

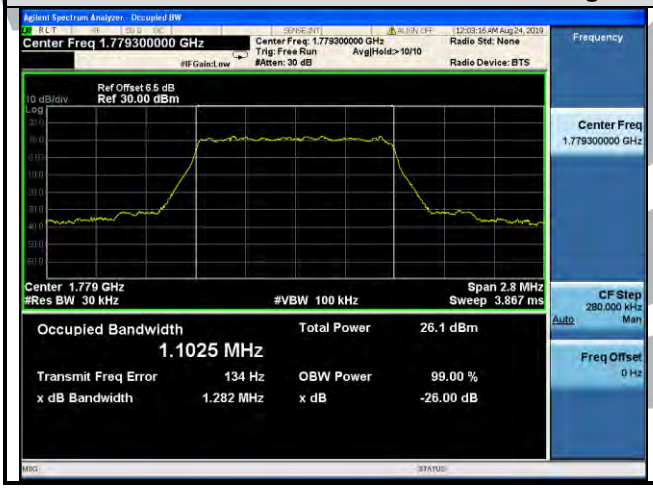
| QPSK | 16QAM |
|---|---|

### Lowest Channel

### Middle Channel



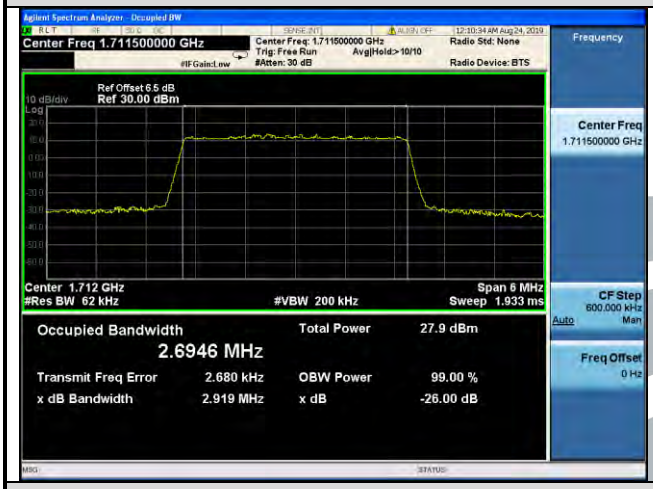
### Highest Channel



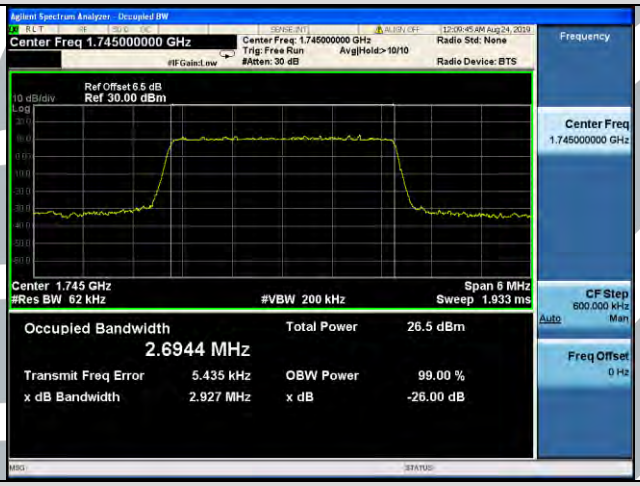
## LTE Band 66_ Channel Bandwidth: 3 MHz

| QPSK | 16QAM |
|---|---|

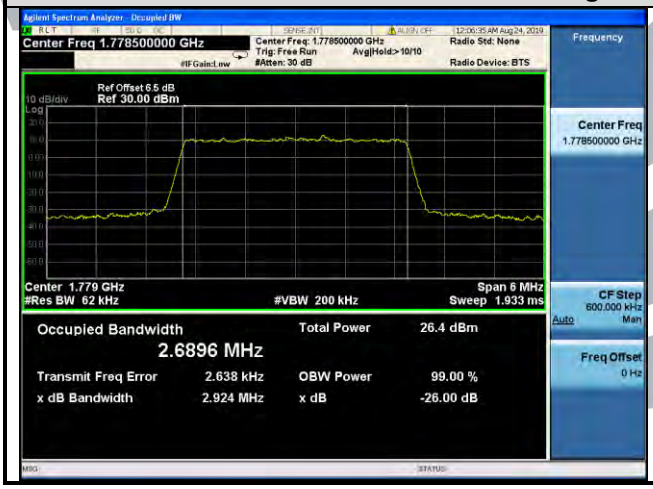
### Lowest Channel

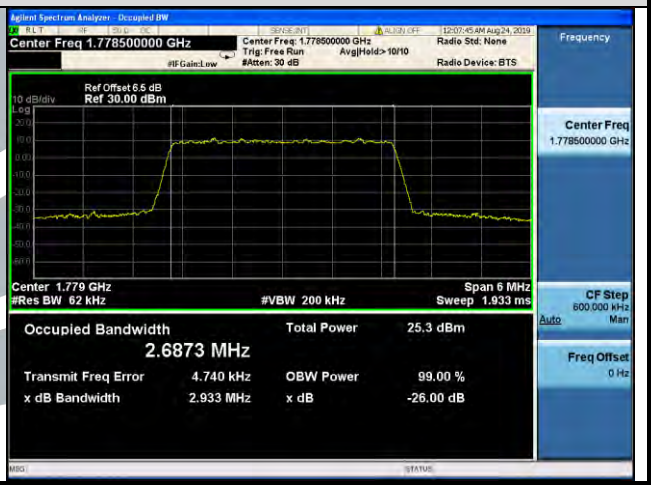


### Middle Channel



### Highest Channel

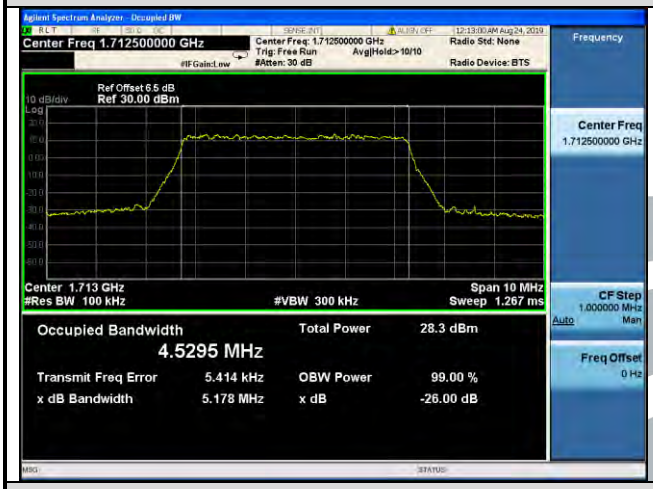


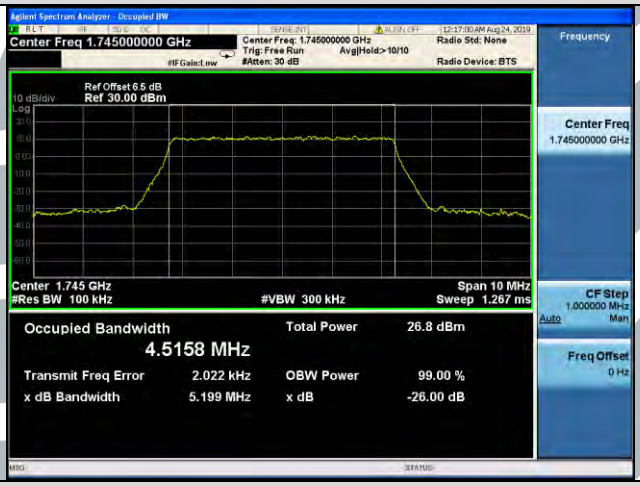
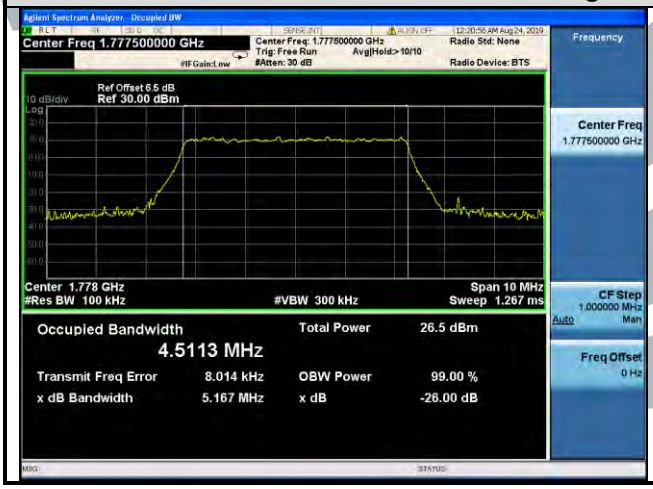
## LTE Band 66_ Channel Bandwidth: 5 MHz

| QPSK | 16QAM |
|---|---|

### Lowest Channel



### Middle Channel



### Highest Channel