

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

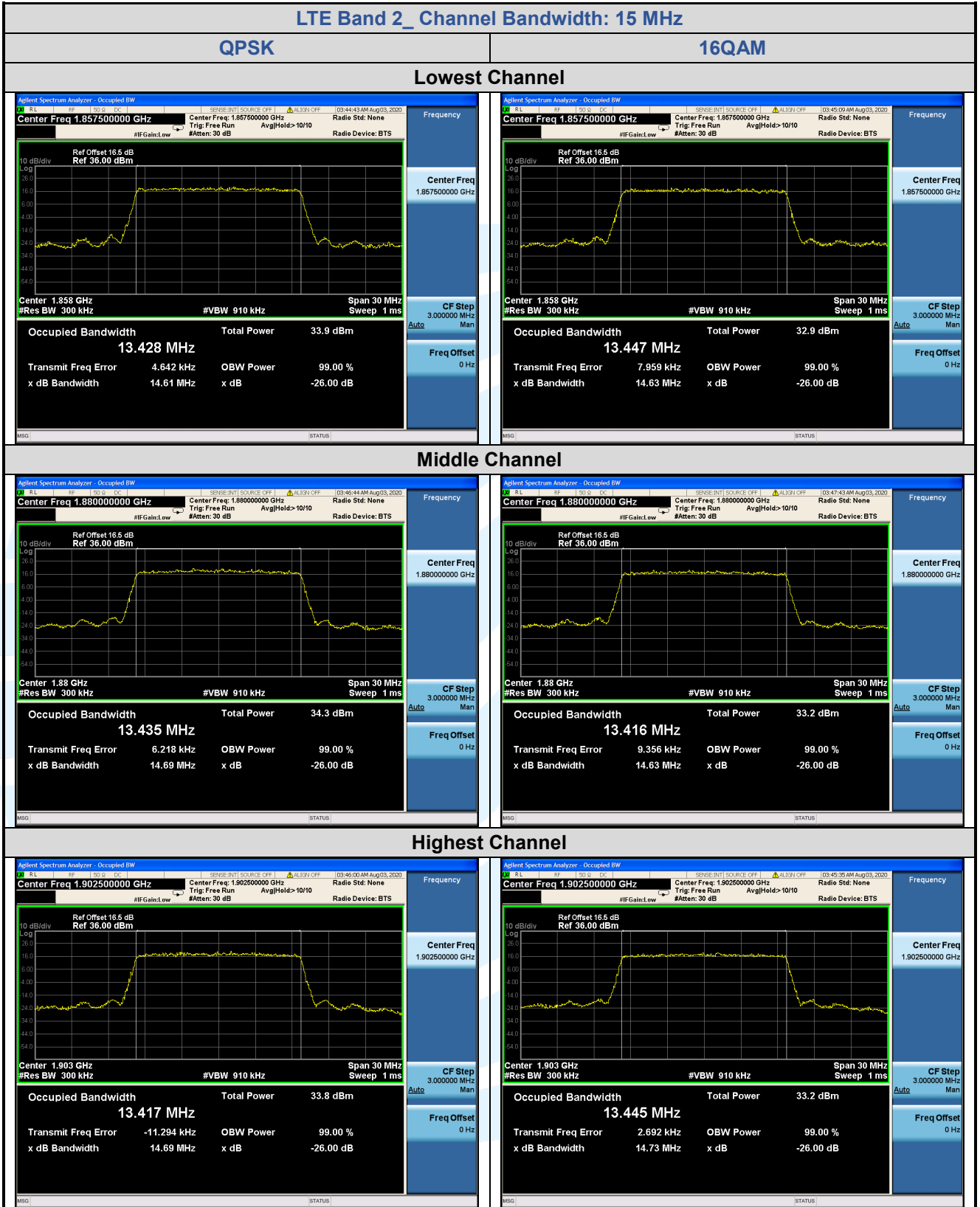
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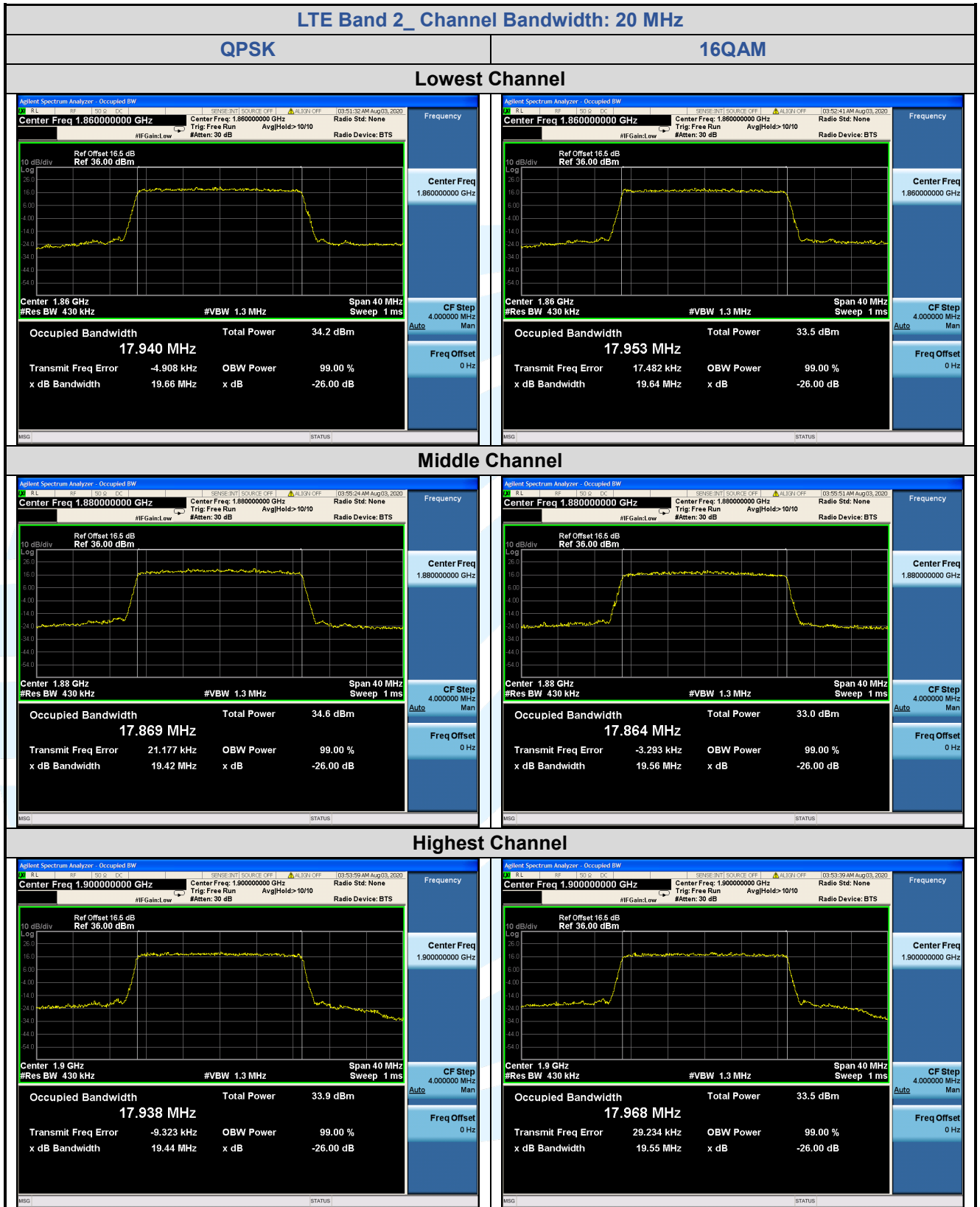
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**5.5.2 LTE Band 4**

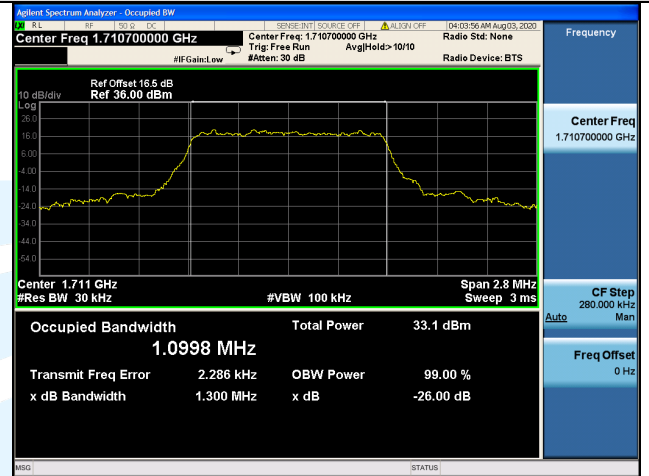
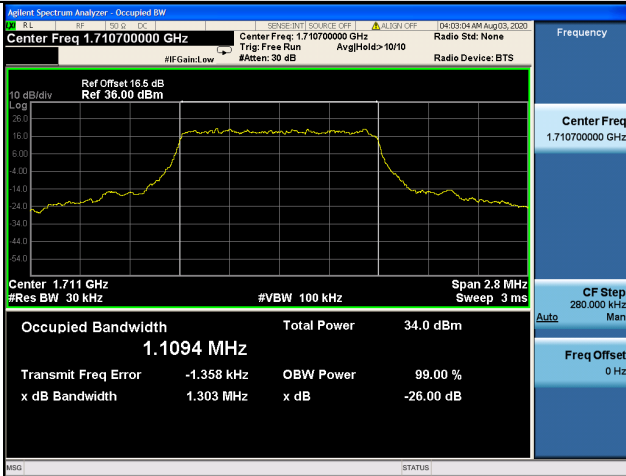
| LTE Band 4                        |                  |        |                |       |       |              |        |       |
|-----------------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| Channel                           | RB Configuration |        | 26 dB BW (MHz) |       |       | 99% BW (MHz) |        |       |
|                                   | Size             | Offset | QPSK           | 16QAM | 64QAM | QPSK         | 16QAM  | 64QAM |
| <b>Channel Bandwidth: 1.4 MHz</b> |                  |        |                |       |       |              |        |       |
| Lowest                            | 6                | 0      | 1.303          | 1.300 | /     | 1.1094       | 1.0998 | /     |
| Middle                            | 6                | 0      | 1.316          | 1.297 | /     | 1.0967       | 1.0944 | /     |
| Highest                           | 6                | 0      | 1.321          | 1.308 | /     | 1.1000       | 1.1047 | /     |
| <b>Channel Bandwidth: 3 MHz</b>   |                  |        |                |       |       |              |        |       |
| Lowest                            | 15               | 0      | 3.008          | 2.969 | /     | 2.7084       | 2.6975 | /     |
| Middle                            | 15               | 0      | 2.987          | 2.967 | /     | 2.6970       | 2.6949 | /     |
| Highest                           | 15               | 0      | 2.976          | 2.995 | /     | 2.7024       | 2.6967 | /     |
| <b>Channel Bandwidth: 5 MHz</b>   |                  |        |                |       |       |              |        |       |
| Lowest                            | 25               | 0      | 5.026          | 5.015 | /     | 4.5165       | 4.5310 | /     |
| Middle                            | 25               | 0      | 5.019          | 5.002 | /     | 4.5253       | 4.5212 | /     |
| Highest                           | 25               | 0      | 5.033          | 5.043 | /     | 4.5101       | 4.5350 | /     |
| <b>Channel Bandwidth: 10 MHz</b>  |                  |        |                |       |       |              |        |       |
| Lowest                            | 50               | 0      | 10.02          | 9.843 | /     | 8.9672       | 8.9772 | /     |
| Middle                            | 50               | 0      | 9.897          | 9.859 | /     | 8.9678       | 8.9847 | /     |
| Highest                           | 50               | 0      | 9.930          | 9.883 | /     | 8.9593       | 8.9723 | /     |
| <b>Channel Bandwidth: 15 MHz</b>  |                  |        |                |       |       |              |        |       |
| Lowest                            | 75               | 0      | 14.74          | 14.73 | /     | 13.407       | 13.452 | /     |
| Middle                            | 75               | 0      | 14.61          | 14.64 | /     | 13.458       | 13.439 | /     |
| Highest                           | 75               | 0      | 14.72          | 14.63 | /     | 13.441       | 13.455 | /     |
| <b>Channel Bandwidth: 20 MHz</b>  |                  |        |                |       |       |              |        |       |
| Lowest                            | 100              | 0      | 19.42          | 19.66 | /     | 17.924       | 17.899 | /     |
| Middle                            | 100              | 0      | 19.36          | 19.48 | /     | 17.921       | 17.936 | /     |
| Highest                           | 100              | 0      | 19.58          | 19.46 | /     | 17.964       | 17.944 | /     |

LTE Band 4\_ Channel Bandwidth: 1.4 MHz

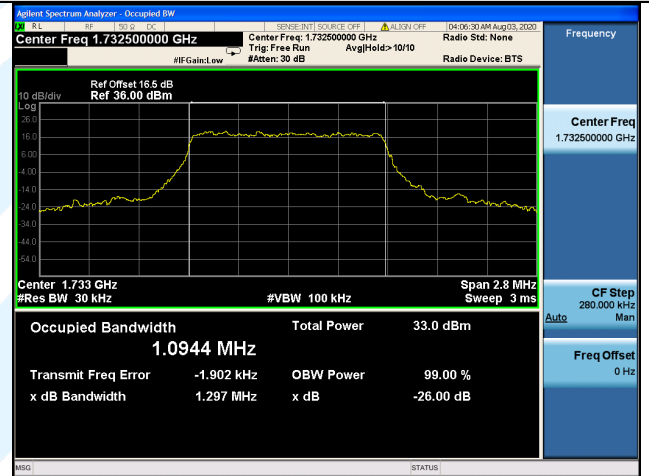
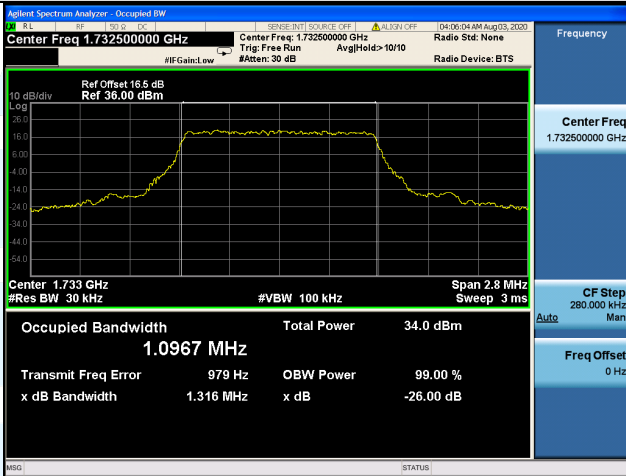
QPSK

16QAM

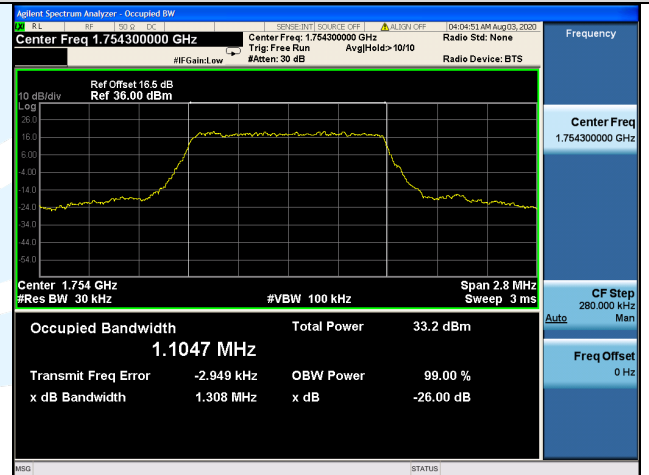
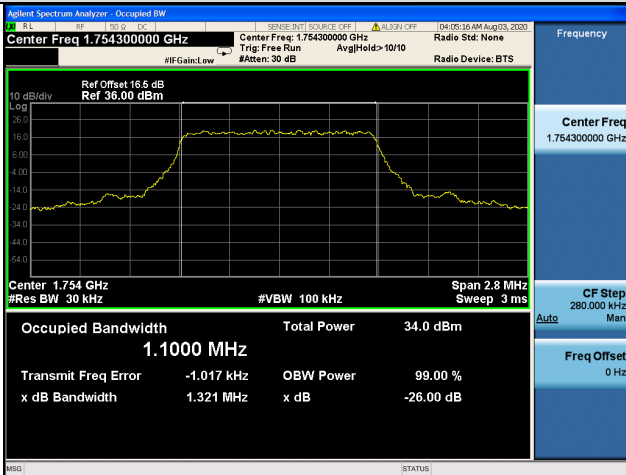
Lowest Channel

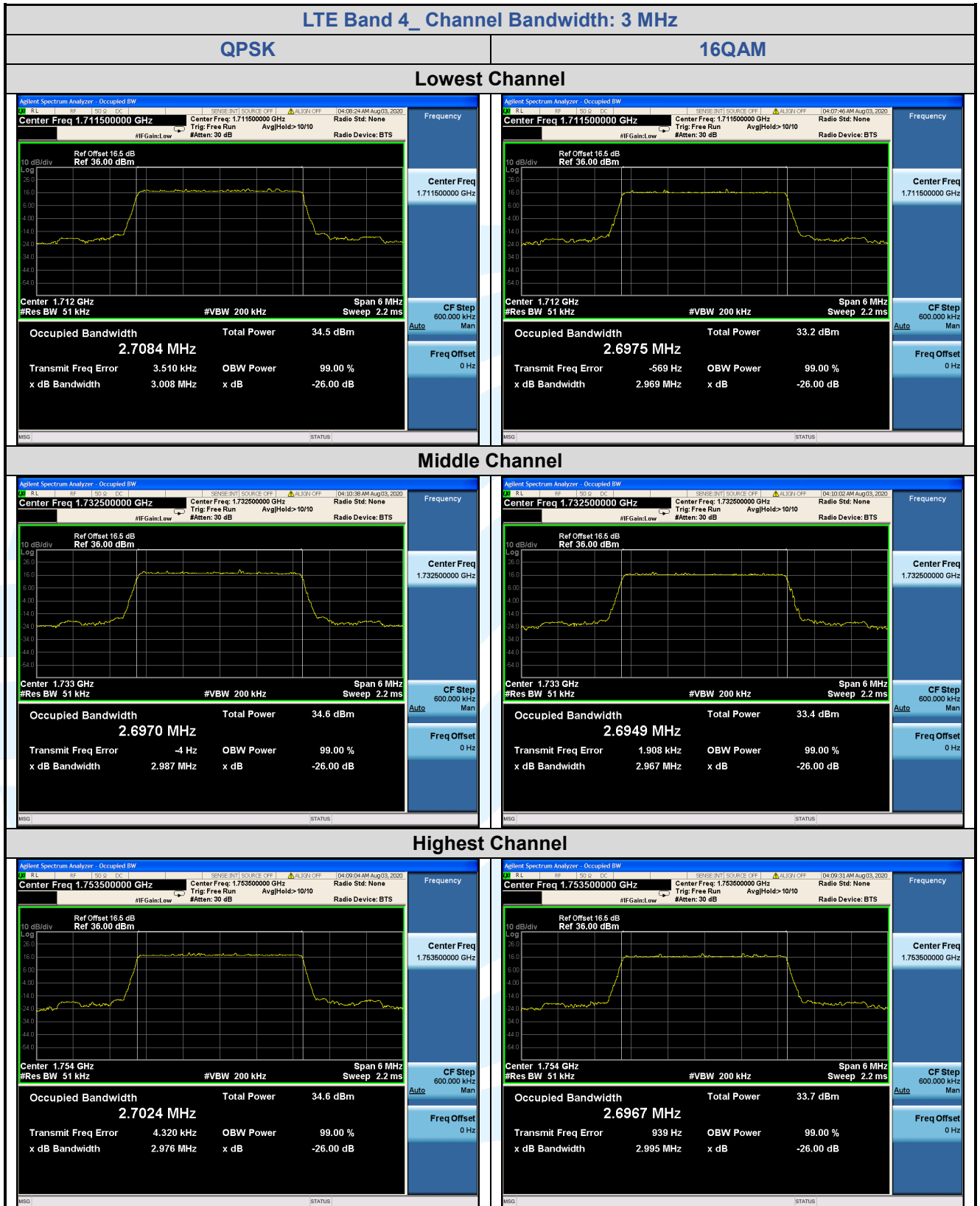


Middle Channel



Highest Channel





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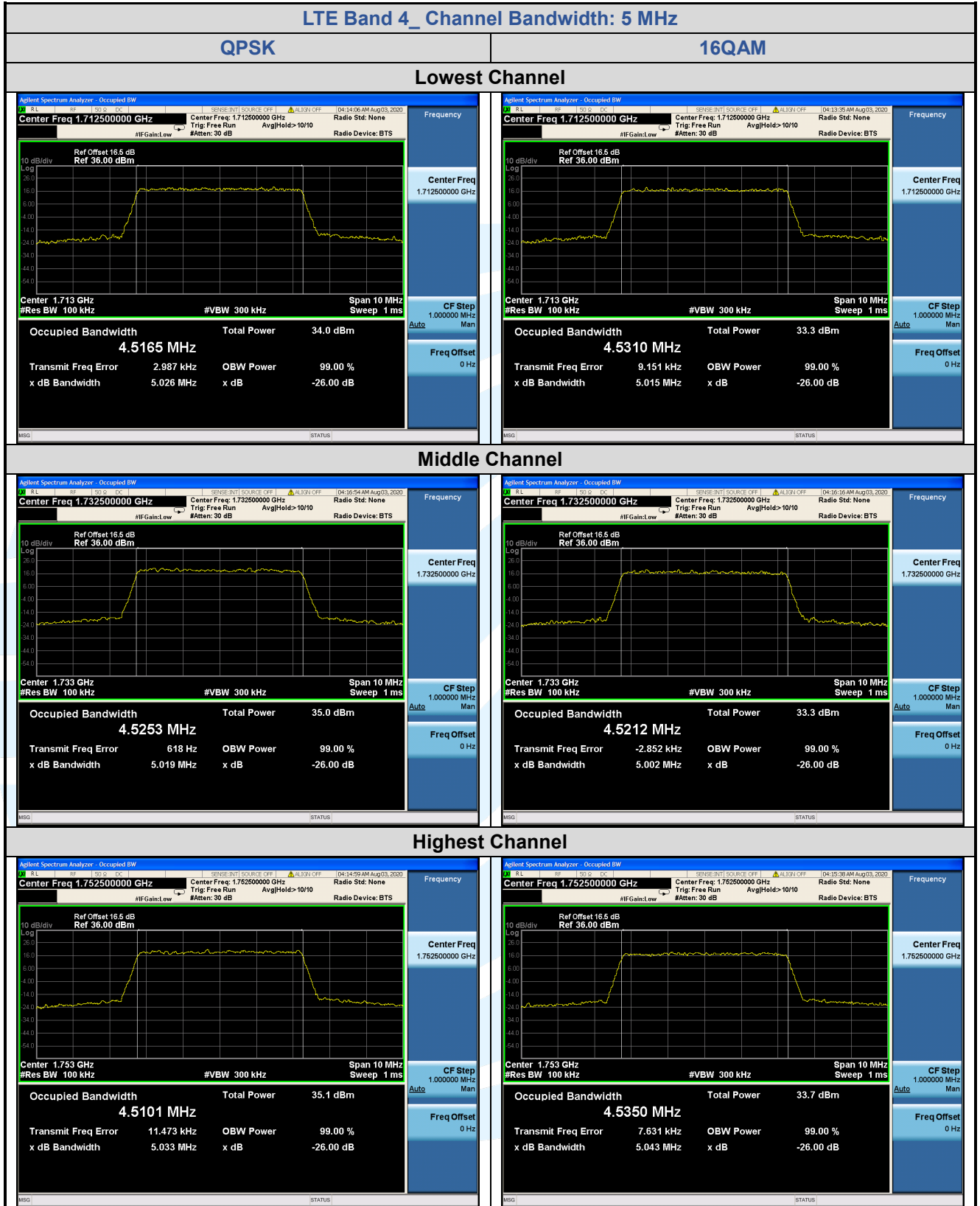
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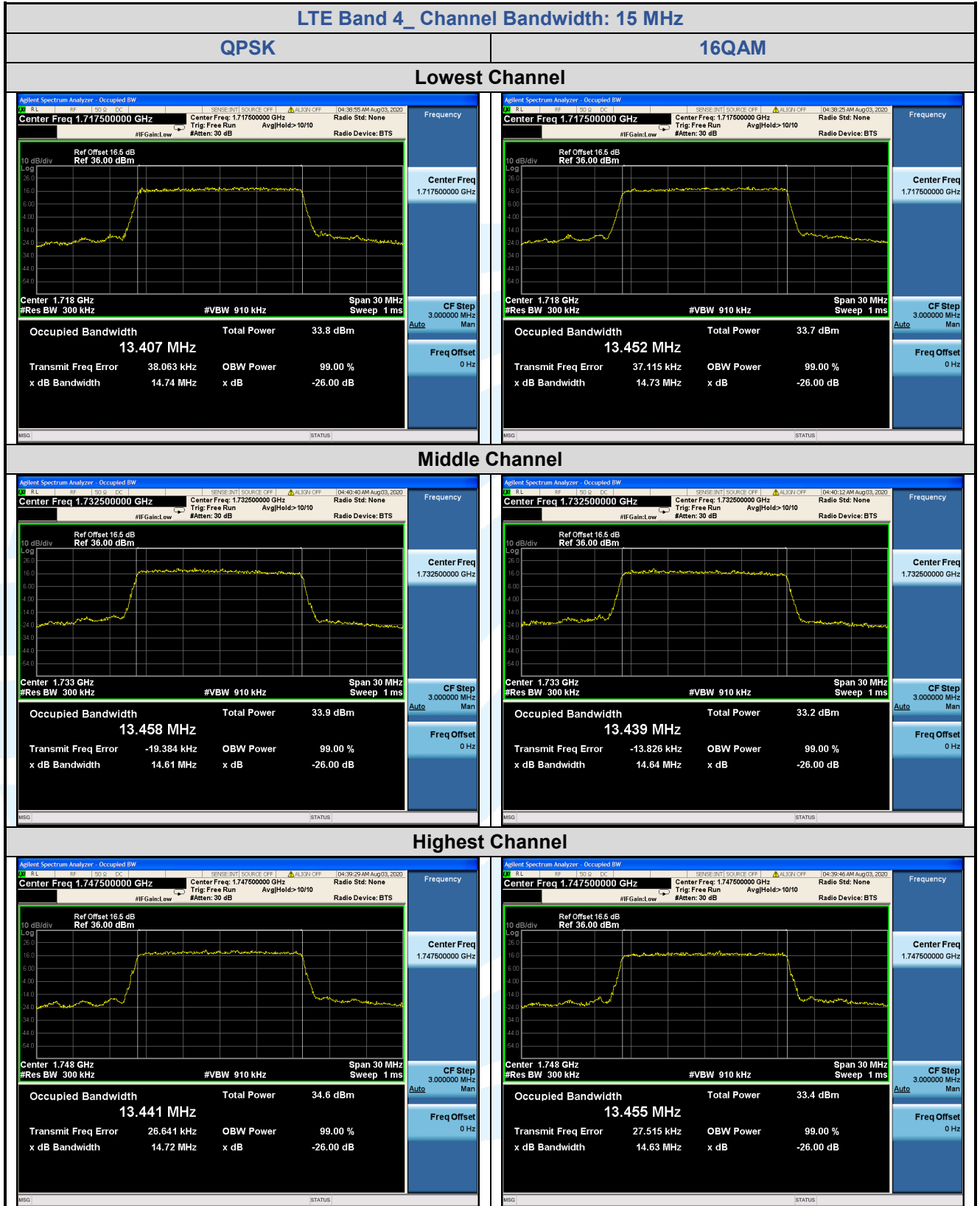
Fax: +86-755-28230886

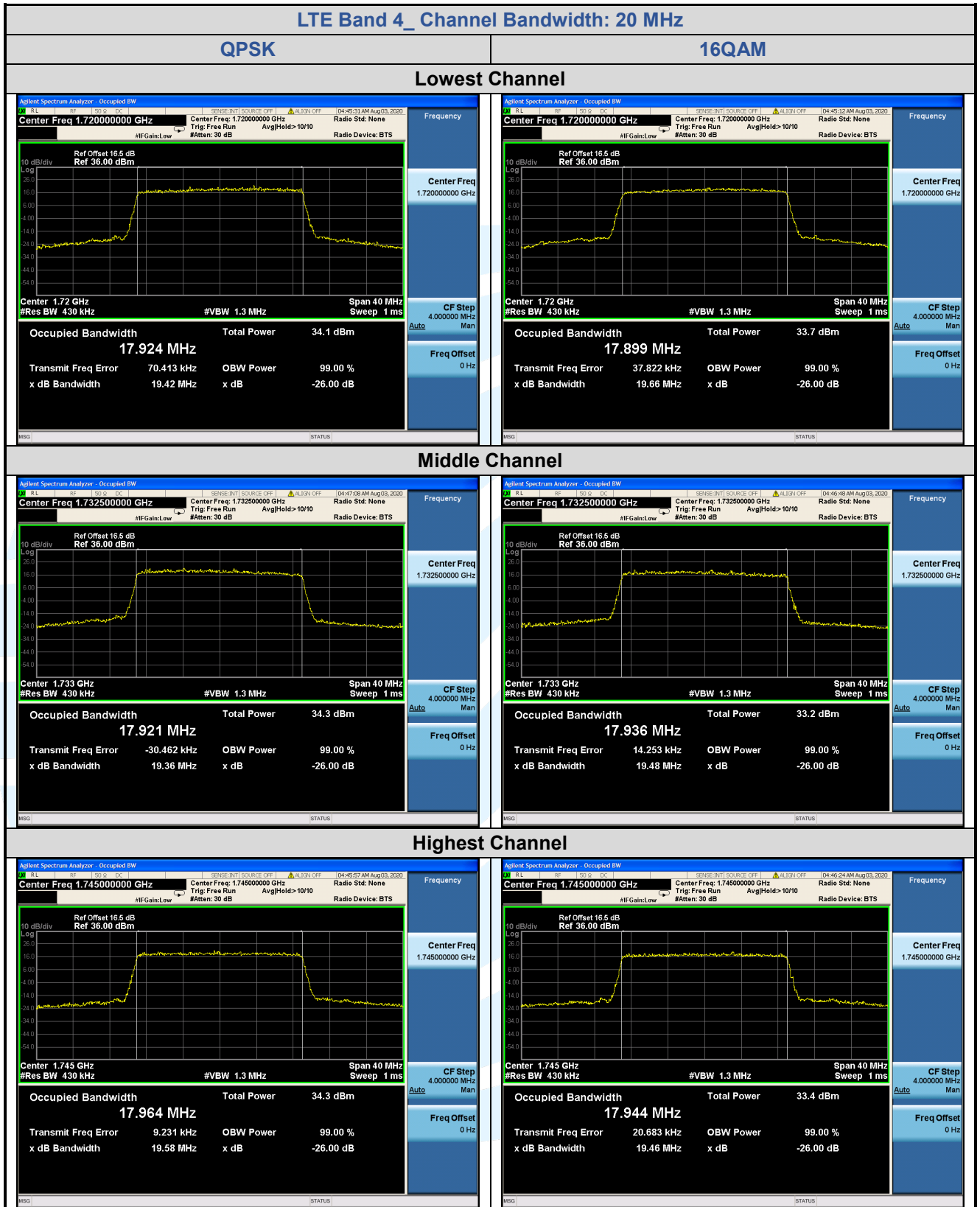
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**5.5.3 LTE Band 5**

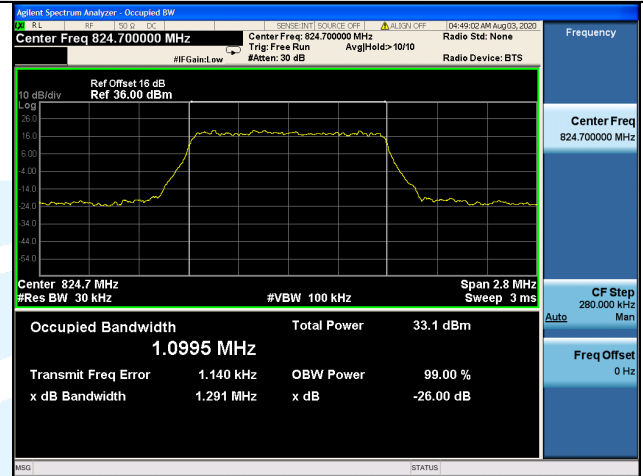
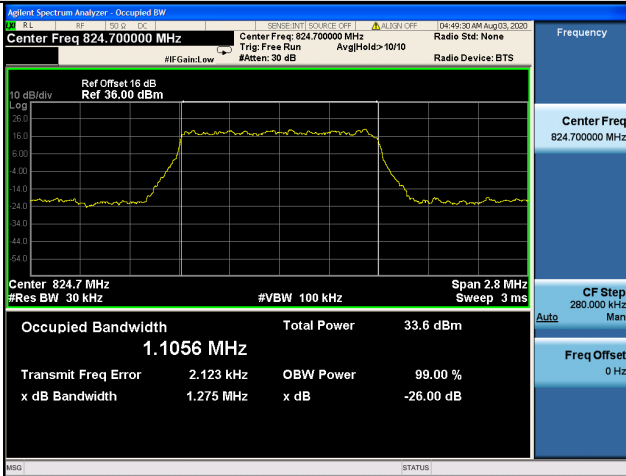
| LTE Band 5                        |                  |        |                |       |       |              |        |       |
|-----------------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| Channel                           | RB Configuration |        | 26 dB BW (MHz) |       |       | 99% BW (MHz) |        |       |
|                                   | Size             | Offset | QPSK           | 16QAM | 64QAM | QPSK         | 16QAM  | 64QAM |
| <b>Channel Bandwidth: 1.4 MHz</b> |                  |        |                |       |       |              |        |       |
| Lowest                            | 6                | 0      | 1.275          | 1.291 | /     | 1.1056       | 1.0995 | /     |
| Middle                            | 6                | 0      | 1.290          | 1.281 | /     | 1.0942       | 1.0951 | /     |
| Highest                           | 6                | 0      | 1.285          | 1.294 | /     | 1.0946       | 1.1004 | /     |
| <b>Channel Bandwidth: 3 MHz</b>   |                  |        |                |       |       |              |        |       |
| Lowest                            | 15               | 0      | 2.986          | 2.996 | /     | 2.7038       | 2.6961 | /     |
| Middle                            | 15               | 0      | 2.974          | 3.007 | /     | 2.7011       | 2.6994 | /     |
| Highest                           | 15               | 0      | 2.983          | 2.968 | /     | 2.6966       | 2.6969 | /     |
| <b>Channel Bandwidth: 5 MHz</b>   |                  |        |                |       |       |              |        |       |
| Lowest                            | 25               | 0      | 5.002          | 5.011 | /     | 4.5187       | 4.5157 | /     |
| Middle                            | 25               | 0      | 5.011          | 4.986 | /     | 4.5297       | 4.5032 | /     |
| Highest                           | 25               | 0      | 4.995          | 4.999 | /     | 4.5014       | 4.5048 | /     |
| <b>Channel Bandwidth: 10 MHz</b>  |                  |        |                |       |       |              |        |       |
| Lowest                            | 50               | 0      | 9.841          | 9.895 | /     | 8.9791       | 8.9986 | /     |
| Middle                            | 50               | 0      | 9.884          | 9.786 | /     | 8.9679       | 8.9584 | /     |
| Highest                           | 50               | 0      | 9.885          | 9.915 | /     | 9.0037       | 8.9789 | /     |

LTE Band 5\_ Channel Bandwidth: 1.4 MHz

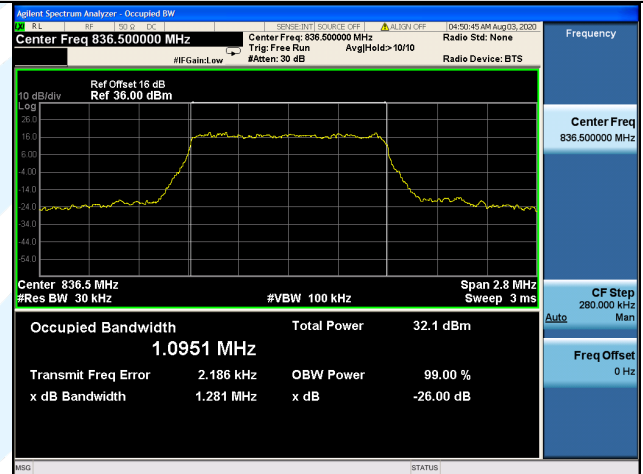
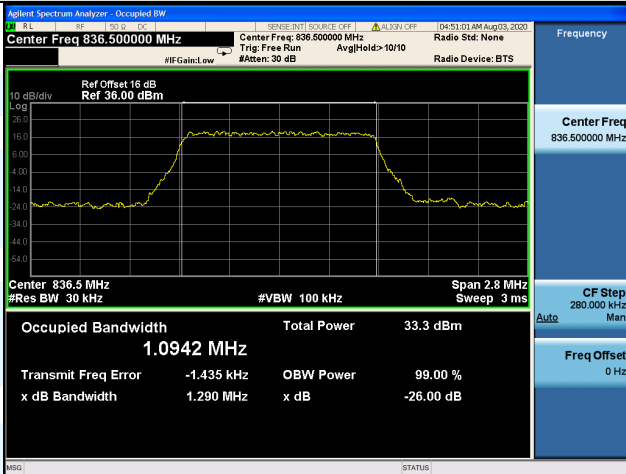
QPSK

16QAM

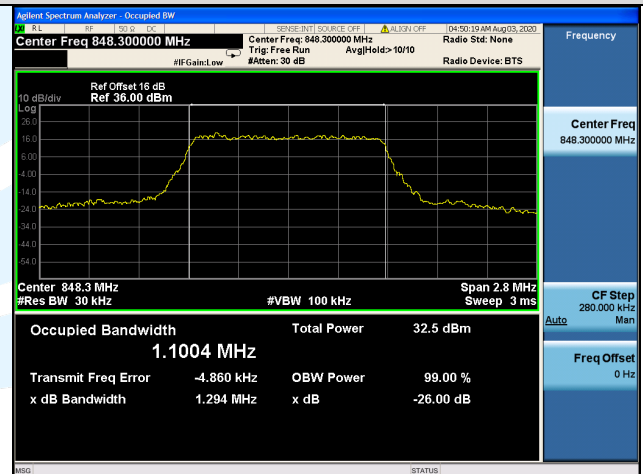
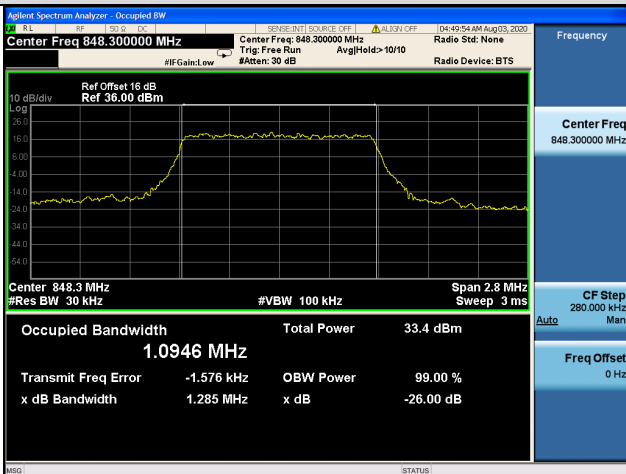
Lowest Channel

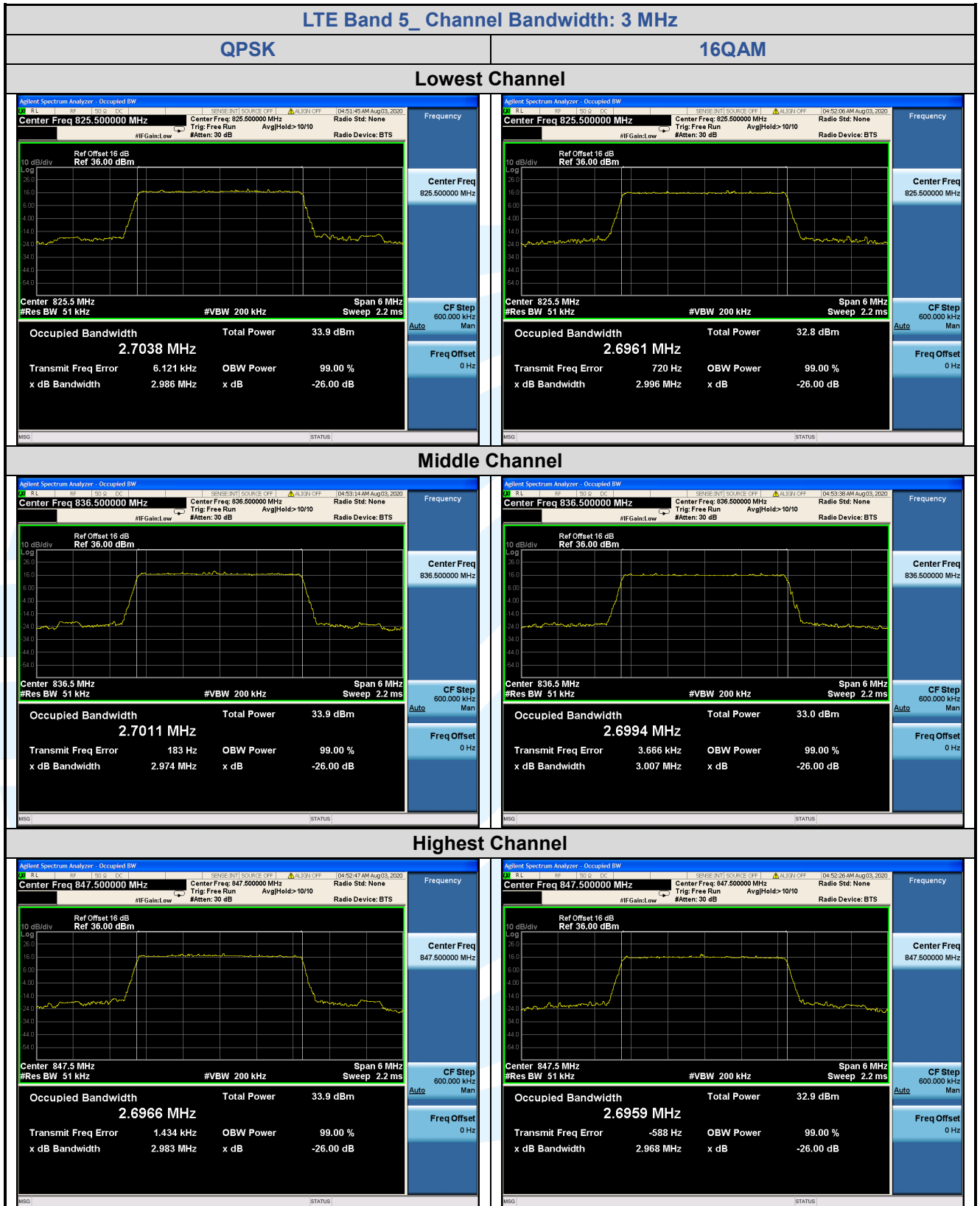


Middle Channel



Highest Channel





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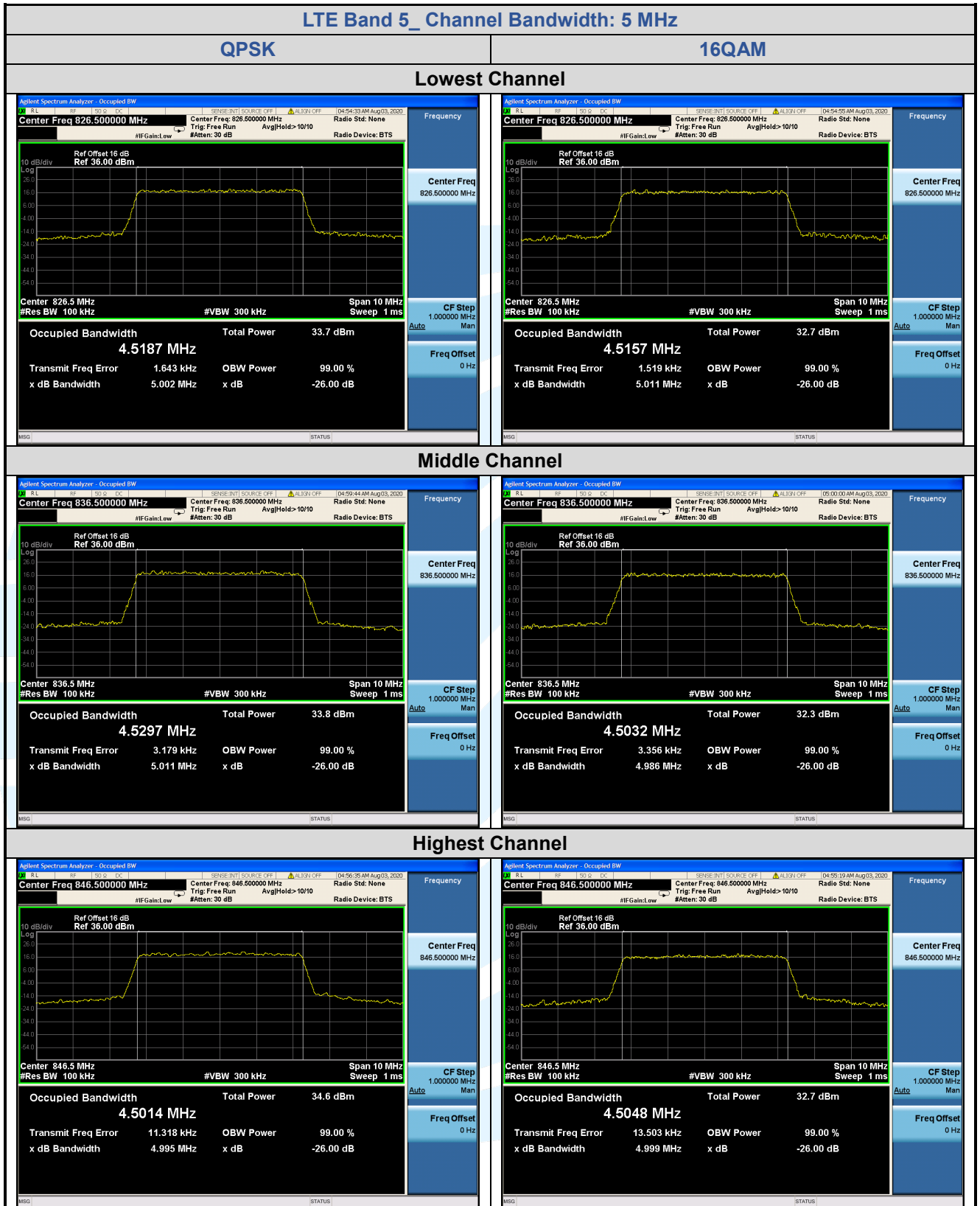
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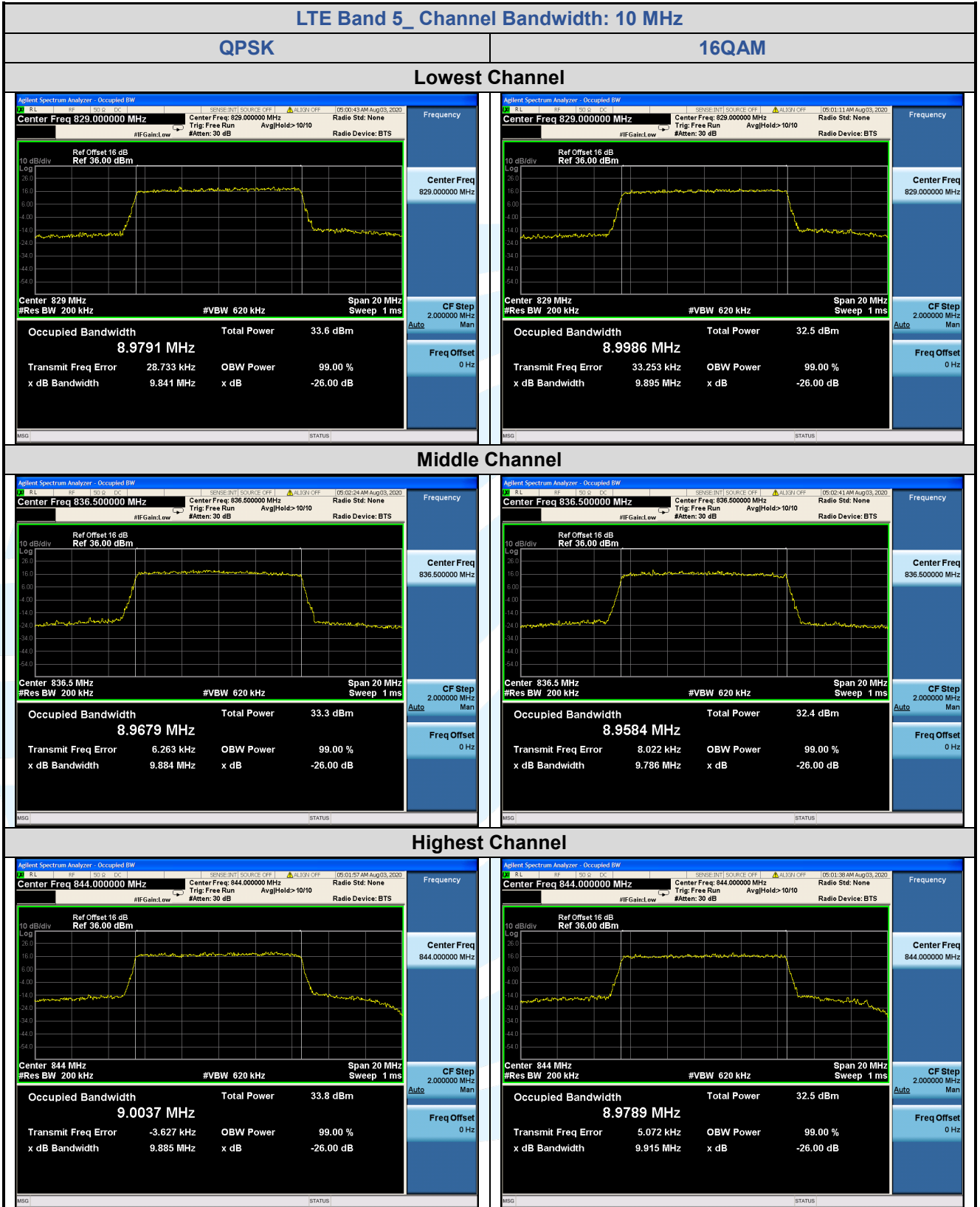
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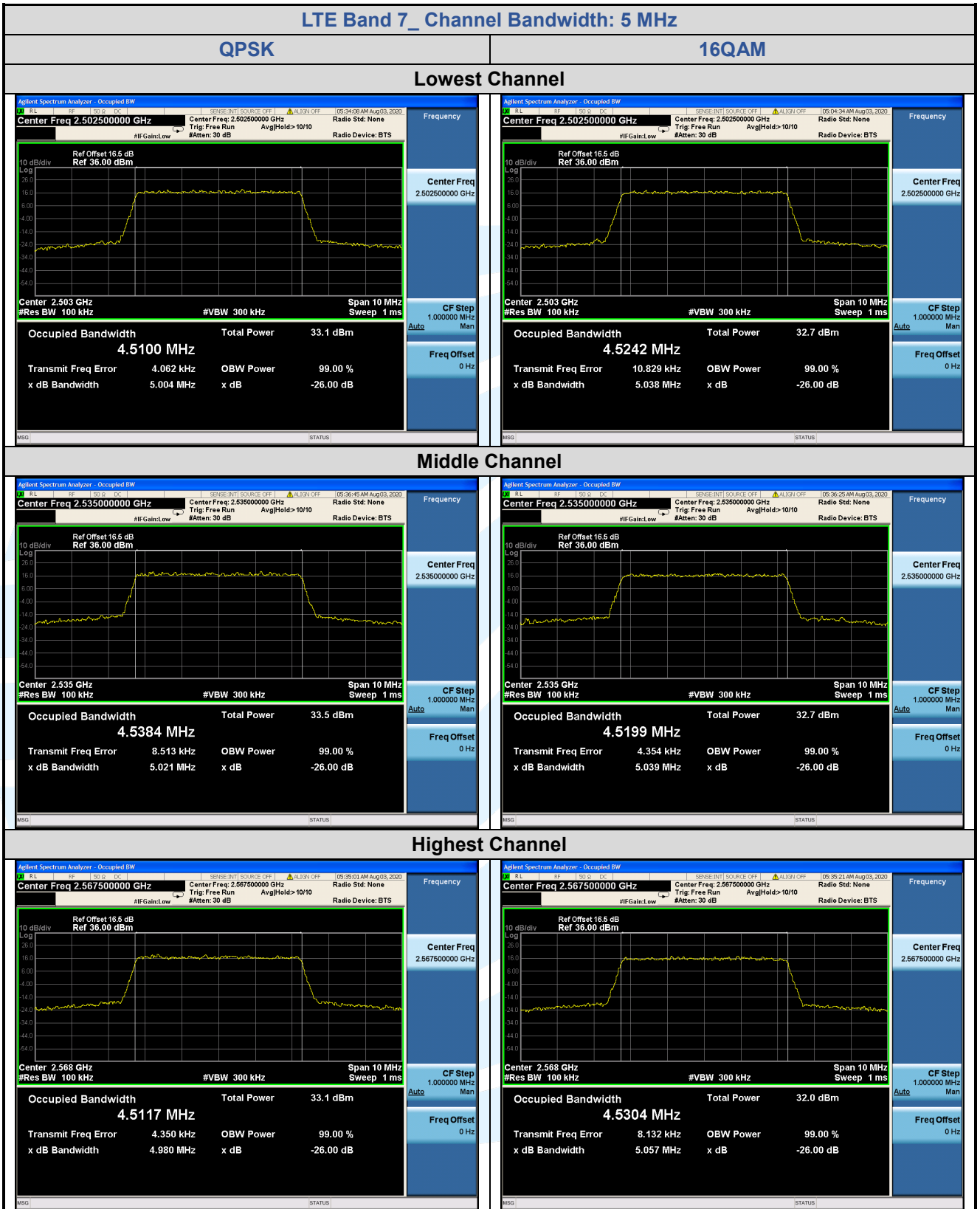
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**5.5.4 LTE Band 7**

| LTE Band 7                       |                  |        |                |       |       |              |        |       |
|----------------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| Channel                          | RB Configuration |        | 26 dB BW (MHz) |       |       | 99% BW (MHz) |        |       |
|                                  | Size             | Offset | QPSK           | 16QAM | 64QAM | QPSK         | 16QAM  | 64QAM |
| <b>Channel Bandwidth: 5 MHz</b>  |                  |        |                |       |       |              |        |       |
| Lowest                           | 25               | 0      | 5.004          | 5.038 | /     | 4.5100       | 4.5242 | /     |
| Middle                           | 25               | 0      | 5.021          | 5.039 | /     | 4.5384       | 4.5199 | /     |
| Highest                          | 25               | 0      | 4.980          | 5.057 | /     | 4.5117       | 4.5304 | /     |
| <b>Channel Bandwidth: 10 MHz</b> |                  |        |                |       |       |              |        |       |
| Lowest                           | 50               | 0      | 9.824          | 9.885 | /     | 8.9598       | 8.9805 | /     |
| Middle                           | 50               | 0      | 9.963          | 9.849 | /     | 8.9800       | 8.9799 | /     |
| Highest                          | 50               | 0      | 9.886          | 9.864 | /     | 8.9774       | 8.9703 | /     |
| <b>Channel Bandwidth: 15 MHz</b> |                  |        |                |       |       |              |        |       |
| Lowest                           | 75               | 0      | 14.59          | 14.70 | /     | 13.411       | 13.451 | /     |
| Middle                           | 75               | 0      | 14.70          | 14.73 | /     | 13.487       | 13.473 | /     |
| Highest                          | 75               | 0      | 14.82          | 14.75 | /     | 13.471       | 13.464 | /     |
| <b>Channel Bandwidth: 20 MHz</b> |                  |        |                |       |       |              |        |       |
| Lowest                           | 100              | 0      | 19.38          | 19.39 | /     | 17.902       | 17.921 | /     |
| Middle                           | 100              | 0      | 19.52          | 19.51 | /     | 17.973       | 17.922 | /     |
| Highest                          | 100              | 0      | 19.50          | 19.40 | /     | 17.951       | 17.921 | /     |





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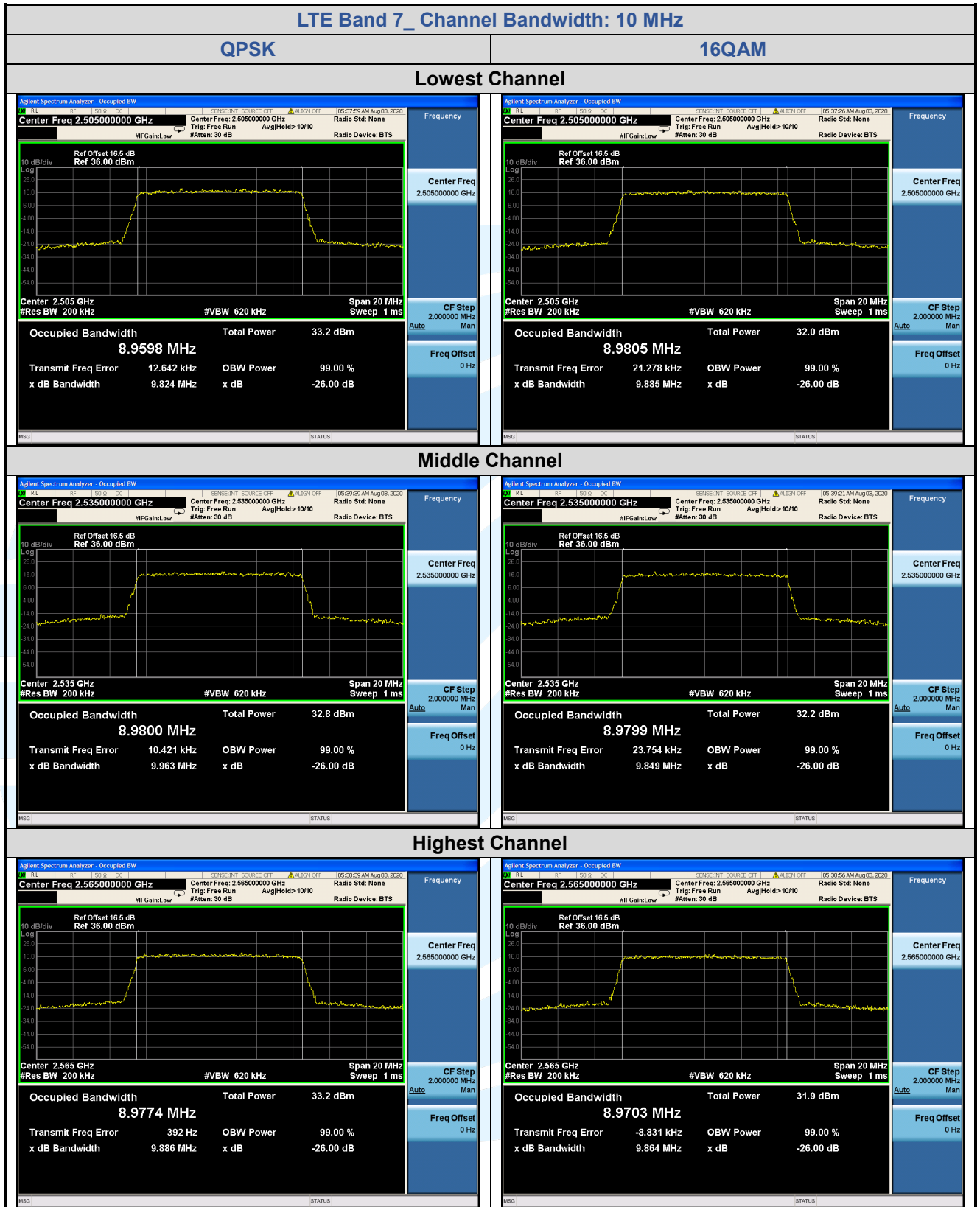
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