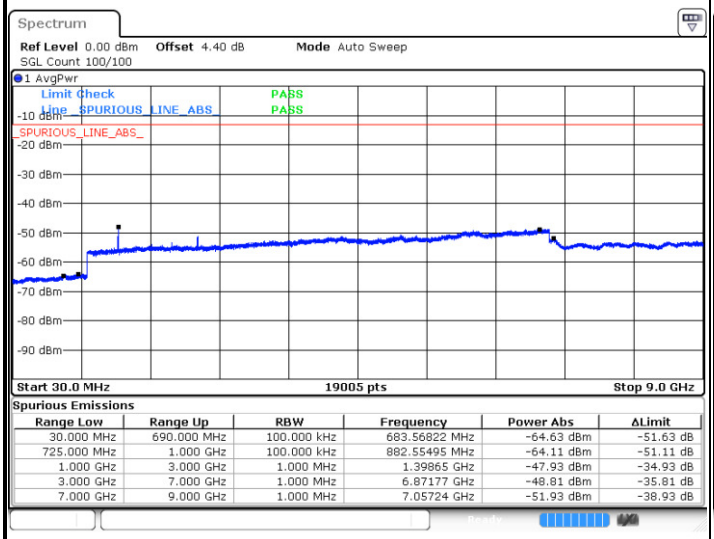
## LTE Band 12 / 3MHz

### Lowest Channel / 64QAM

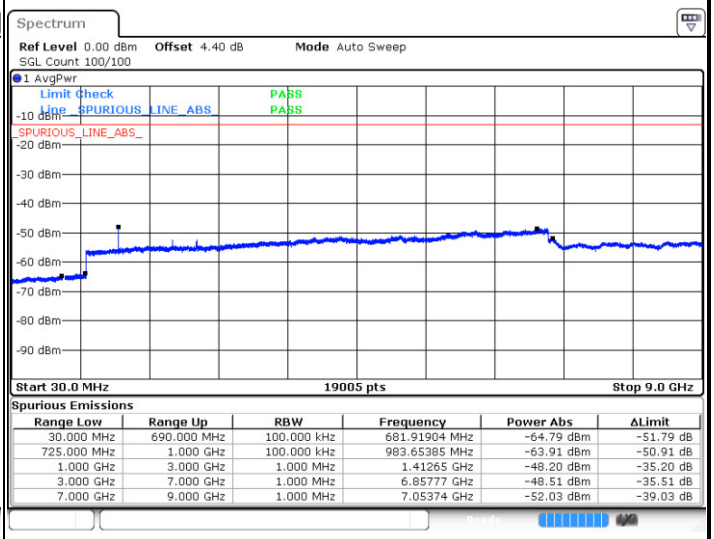



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 683.56822 MHz | -64.63 dBm | -51.63 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 882.55495 MHz | -64.11 dBm | -51.11 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.39865 GHz | -47.93 dBm | -34.93 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87177 GHz | -48.81 dBm | -35.81 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05724 GHz | -51.93 dBm | -38.93 dB |

Date: 6.JAN.2018 16:31:22

### Middle Channel / 64QAM

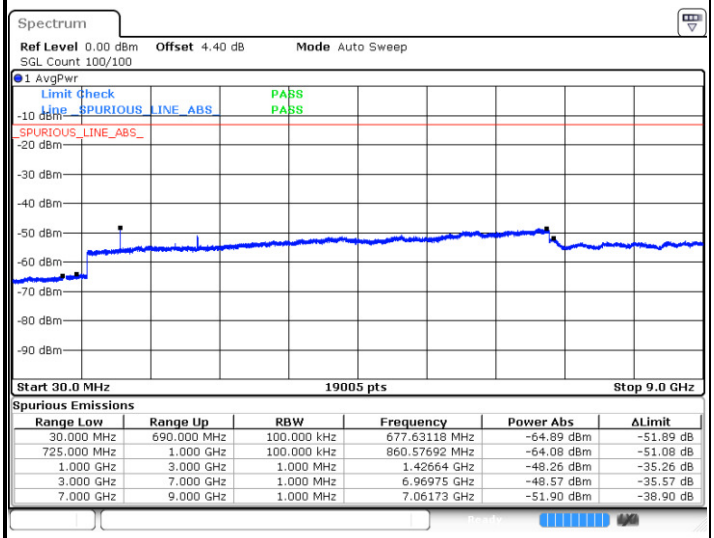



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 681.91904 MHz | -64.79 dBm | -51.79 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 983.65385 MHz | -63.91 dBm | -50.91 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41265 GHz | -48.20 dBm | -35.20 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85777 GHz | -48.51 dBm | -35.51 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05374 GHz | -52.03 dBm | -39.03 dB |

Date: 6.JAN.2018 16:32:18

### Highest Channel / 64QAM



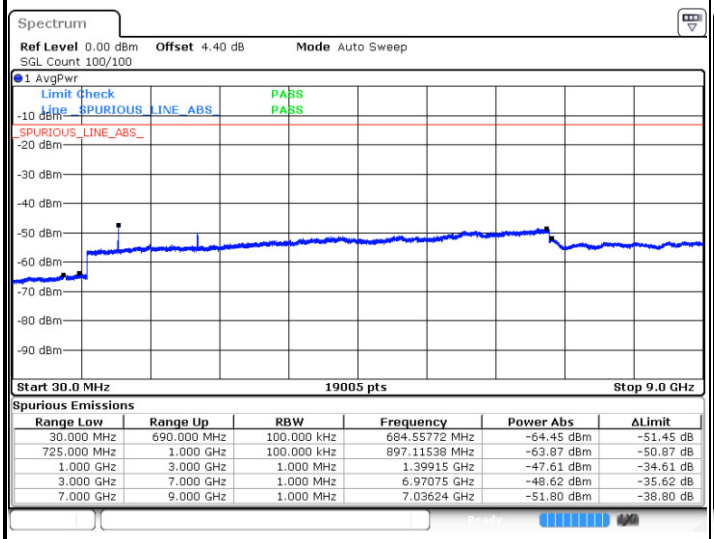

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 677.63118 MHz | -64.89 dBm | -51.89 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 860.57692 MHz | -64.08 dBm | -51.08 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.42664 GHz | -48.26 dBm | -35.26 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.96975 GHz | -48.57 dBm | -35.57 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.06173 GHz | -51.90 dBm | -38.90 dB |

Date: 6.JAN.2018 16:33:13

## LTE Band 12 / 5MHz

### Lowest Channel / 64QAM

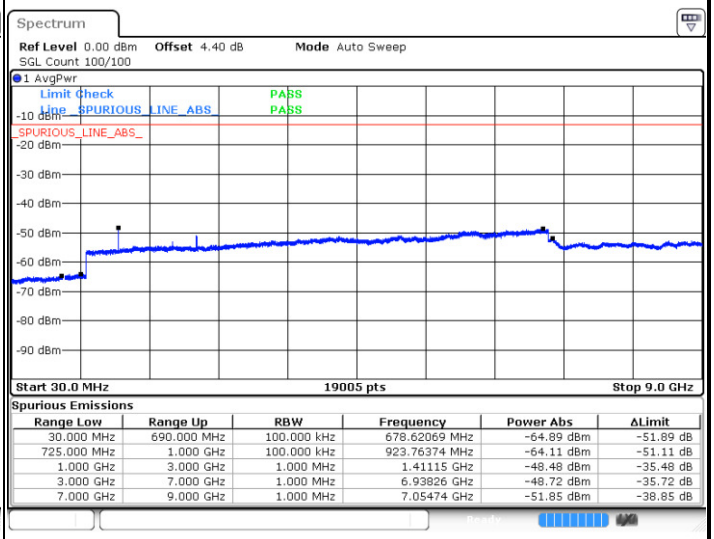



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 684.55772 MHz | -64.45 dBm | -51.45 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 897.11538 MHz | -63.87 dBm | -50.87 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.39915 GHz | -47.61 dBm | -34.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97075 GHz | -48.62 dBm | -35.62 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.03624 GHz | -51.80 dBm | -38.80 dB |

Date: 6.JAN.2018 16:19:32

### Middle Channel / 64QAM

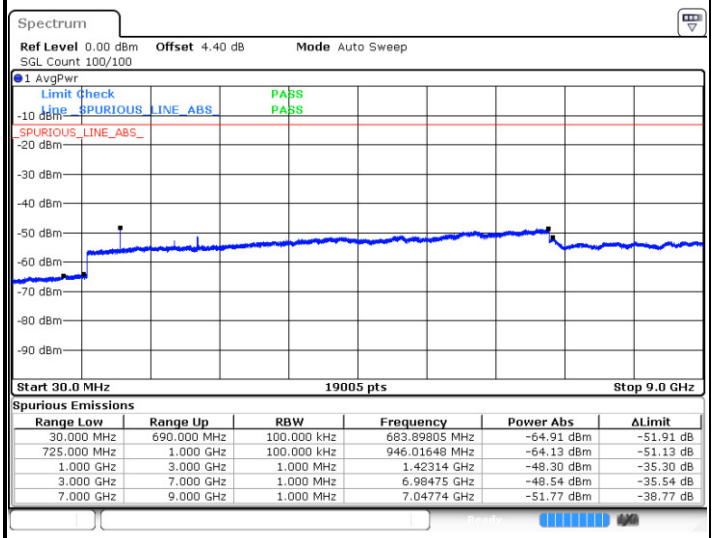



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 678.62069 MHz | -64.89 dBm | -51.89 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 923.76374 MHz | -64.11 dBm | -51.11 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41115 GHz | -48.48 dBm | -35.48 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.93826 GHz | -48.72 dBm | -35.72 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05474 GHz | -51.85 dBm | -38.85 dB |

Date: 6.JAN.2018 16:20:27

### Highest Channel / 64QAM



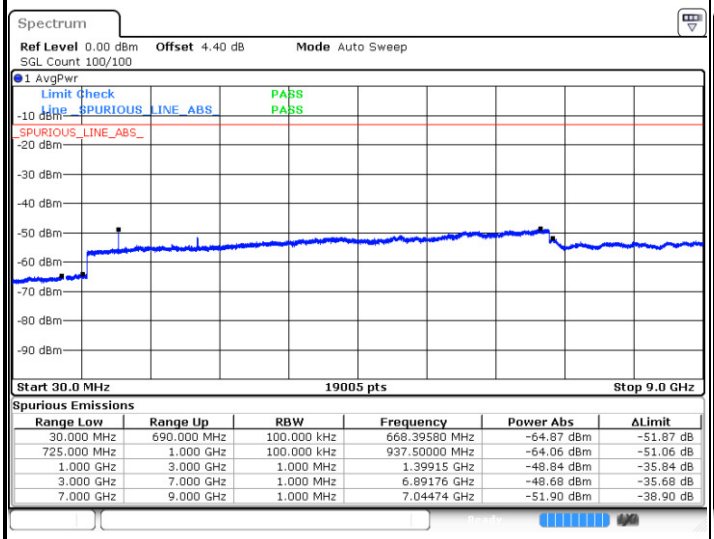

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 683.89805 MHz | -64.91 dBm | -51.91 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 946.01648 MHz | -64.13 dBm | -51.13 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.42314 GHz | -48.30 dBm | -35.30 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98475 GHz | -48.54 dBm | -35.54 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04774 GHz | -51.77 dBm | -38.77 dB |

Date: 6.JAN.2018 16:21:22

## LTE Band 12 / 10MHz

### Lowest Channel / 64QAM

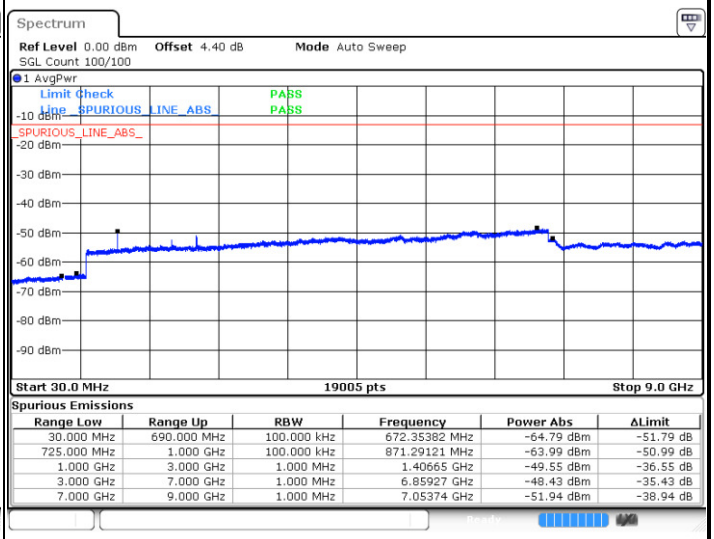



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 668.39580 MHz | -64.87 dBm | -51.87 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 937.50000 MHz | -64.06 dBm | -51.06 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.39915 GHz | -48.84 dBm | -35.84 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.89176 GHz | -48.68 dBm | -35.68 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04474 GHz | -51.90 dBm | -38.90 dB |

Date: 6.JAN.2018 16:16:46

### Middle Channel / 64QAM

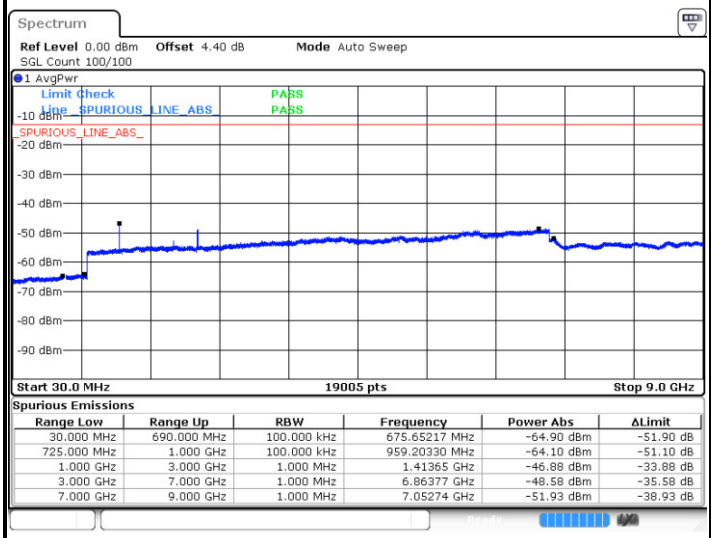



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 672.35382 MHz | -64.79 dBm | -51.79 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 871.29121 MHz | -63.99 dBm | -50.99 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.40665 GHz | -49.55 dBm | -36.55 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85927 GHz | -48.43 dBm | -35.43 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05374 GHz | -51.94 dBm | -38.94 dB |

Date: 6.JAN.2018 16:17:41

### Highest Channel / 64QAM



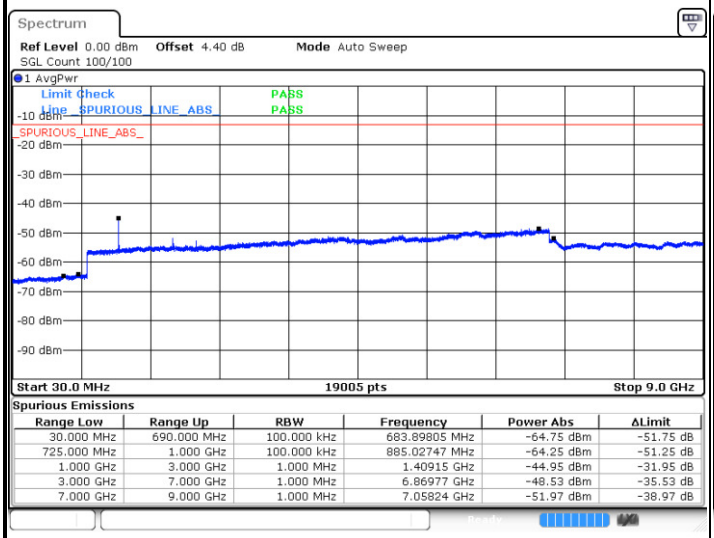

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 675.65217 MHz | -64.90 dBm | -51.90 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 959.20330 MHz | -64.10 dBm | -51.10 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41365 GHz | -46.88 dBm | -33.88 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.86377 GHz | -48.58 dBm | -35.58 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05274 GHz | -51.93 dBm | -38.93 dB |

Date: 6.JAN.2018 16:18:37

## LTE Band 17 / 5MHz

### Lowest Channel / QPSK

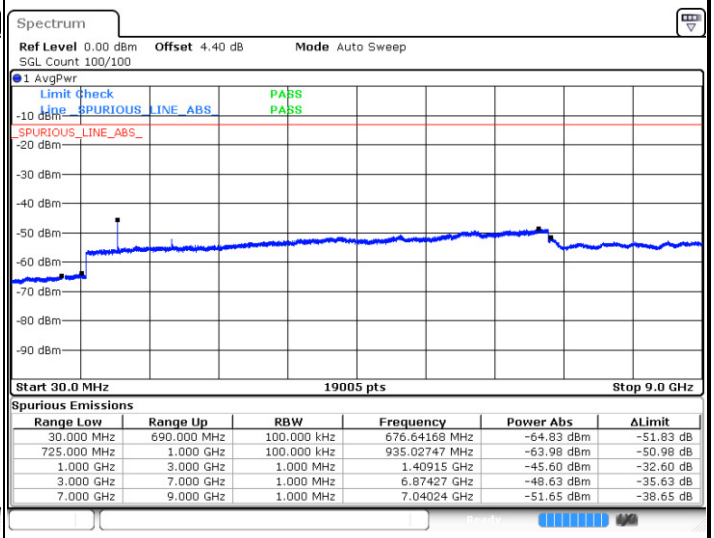



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 683.89805 MHz | -64.75 dBm | -51.75 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 885.02747 MHz | -64.25 dBm | -51.25 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.40915 GHz | -44.95 dBm | -31.95 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.86977 GHz | -48.53 dBm | -35.53 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05824 GHz | -51.97 dBm | -38.97 dB |

Date: 31.DEC.2017 17:52:50

### Lowest Channel / 16QAM

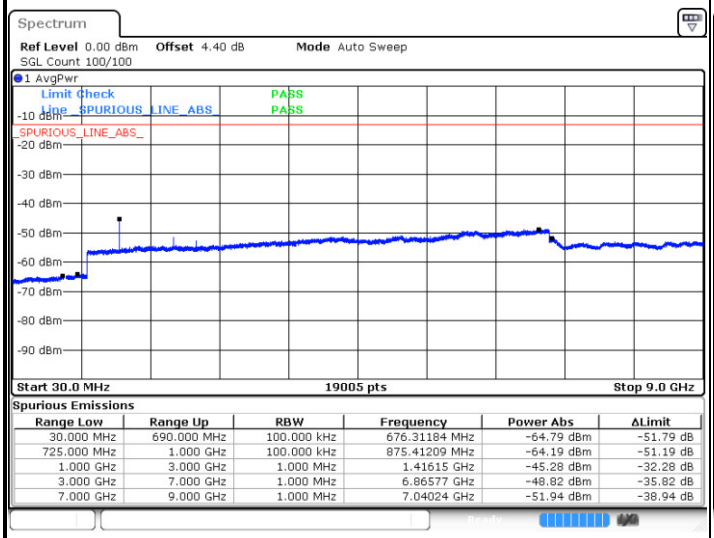



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 676.64168 MHz | -64.83 dBm | -51.83 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 935.02747 MHz | -63.98 dBm | -50.98 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.40915 GHz | -45.60 dBm | -32.60 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87427 GHz | -48.63 dBm | -35.63 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04024 GHz | -51.65 dBm | -38.65 dB |

Date: 31.DEC.2017 17:53:45

### Middle Channel / QPSK

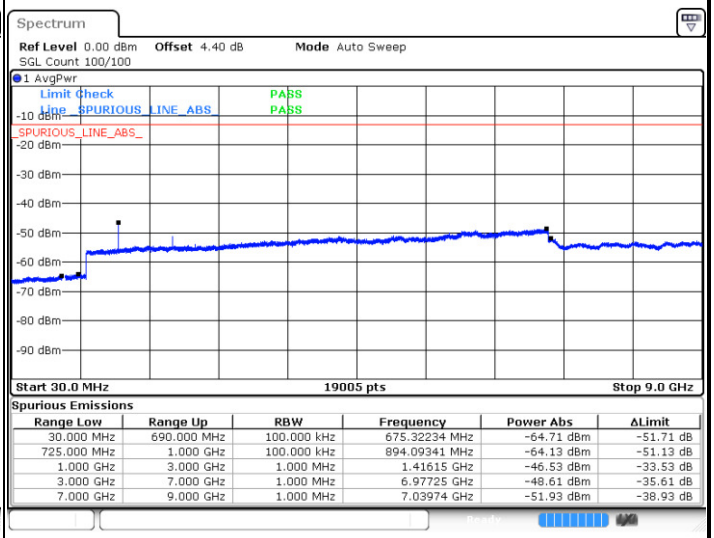



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 676.31184 MHz | -64.79 dBm | -51.79 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 875.41209 MHz | -64.19 dBm | -51.19 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41615 GHz | -45.28 dBm | -32.28 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.86577 GHz | -48.82 dBm | -35.82 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04024 GHz | -51.94 dBm | -38.94 dB |

Date: 31.DEC.2017 17:55:23

### Middle Channel / 16QAM



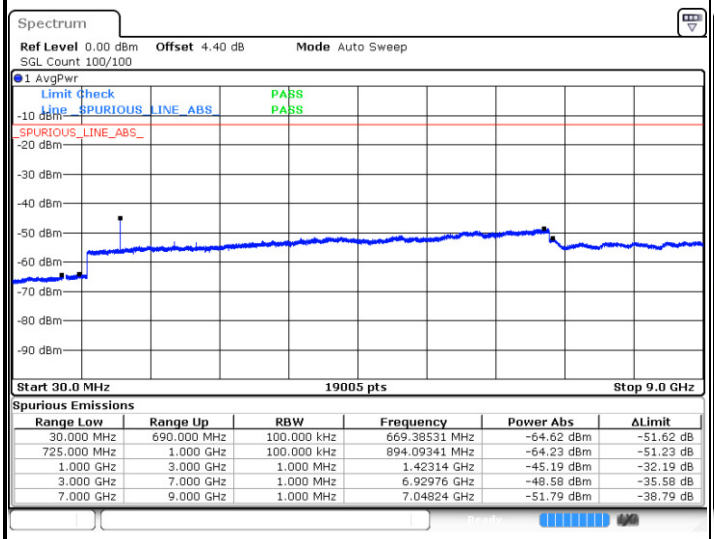

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 675.32234 MHz | -64.71 dBm | -51.71 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 894.09341 MHz | -64.13 dBm | -51.13 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41615 GHz | -46.53 dBm | -33.53 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97725 GHz | -48.61 dBm | -35.61 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.03974 GHz | -51.93 dBm | -38.93 dB |

Date: 31.DEC.2017 17:56:18

## LTE Band 17 / 5MHz

### Highest Channel / QPSK

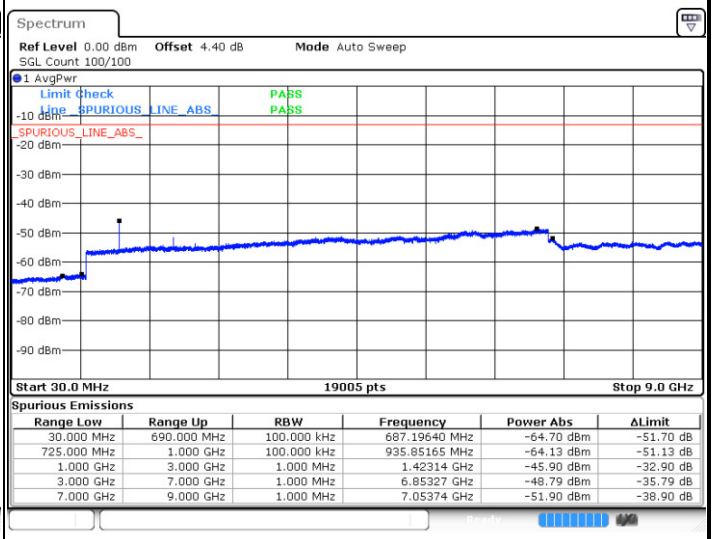



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 669.38531 MHz | -64.62 dBm | -51.62 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 894.09341 MHz | -64.23 dBm | -51.23 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.42314 GHz | -45.19 dBm | -32.19 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.92976 GHz | -48.58 dBm | -35.58 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04824 GHz | -51.79 dBm | -38.79 dB |

Date: 31.DEC.2017 18:02:28

### Highest Channel / 16QAM



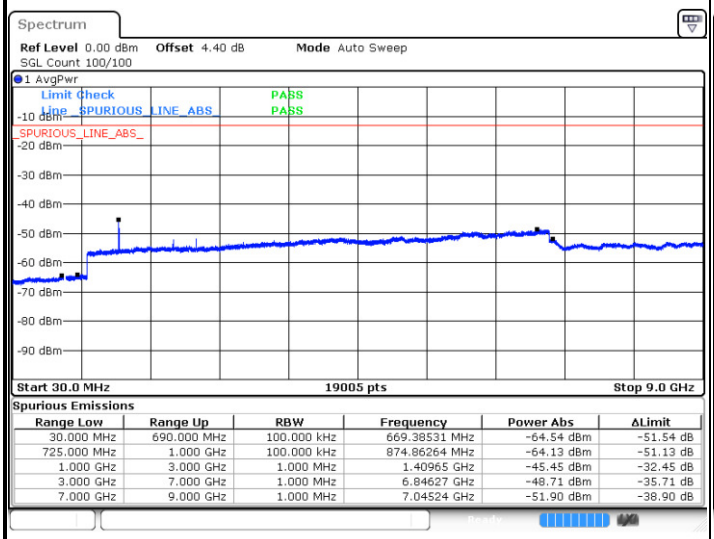

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 687.19640 MHz | -64.70 dBm | -51.70 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 935.85165 MHz | -64.13 dBm | -51.13 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.42314 GHz | -45.90 dBm | -32.90 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85327 GHz | -48.79 dBm | -35.79 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05374 GHz | -51.90 dBm | -38.90 dB |

Date: 31.DEC.2017 18:03:23

## LTE Band 17 / 10MHz

### Lowest Channel / QPSK

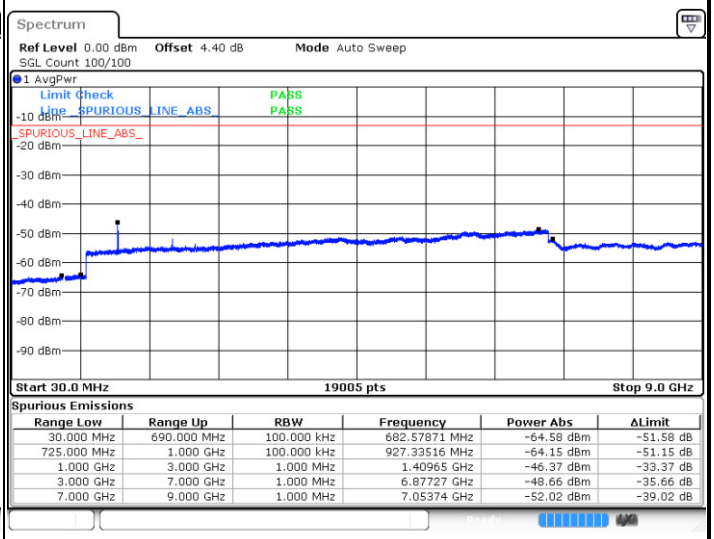



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 669.38531 MHz | -64.54 dBm | -51.54 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 874.86264 MHz | -64.13 dBm | -51.13 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.40965 GHz | -45.45 dBm | -32.45 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.84627 GHz | -48.71 dBm | -35.71 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04524 GHz | -51.90 dBm | -38.90 dB |

Date: 31.DEC.2017 18:09:35

### Lowest Channel / 16QAM



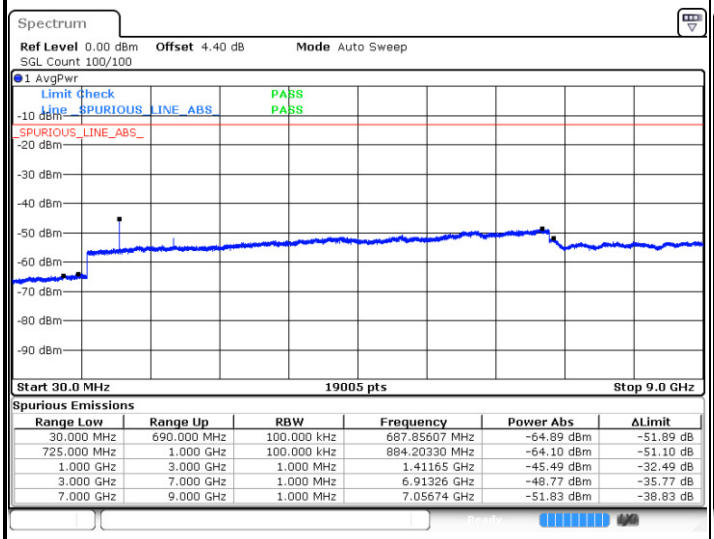

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 682.57871 MHz | -64.58 dBm | -51.58 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 927.33516 MHz | -64.15 dBm | -51.15 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.40965 GHz | -46.37 dBm | -33.37 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87727 GHz | -48.66 dBm | -35.66 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05374 GHz | -52.02 dBm | -39.02 dB |

Date: 31.DEC.2017 18:10:30

## LTE Band 17 / 10MHz

### Middle Channel / QPSK

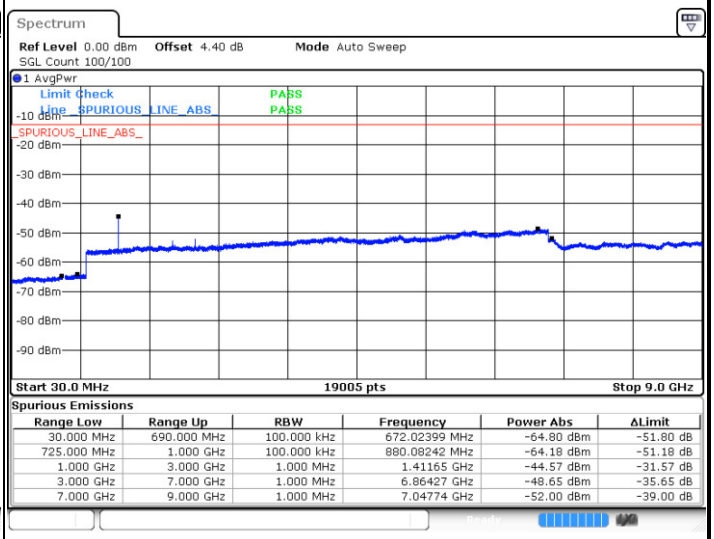



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 687.85607 MHz | -64.89 dBm | -51.89 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 884.20330 MHz | -64.10 dBm | -51.10 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41165 GHz | -45.49 dBm | -32.49 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91326 GHz | -48.77 dBm | -35.77 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05674 GHz | -51.83 dBm | -38.83 dB |

Date: 31.DEC.2017 18:12:08

### Middle Channel / 16QAM

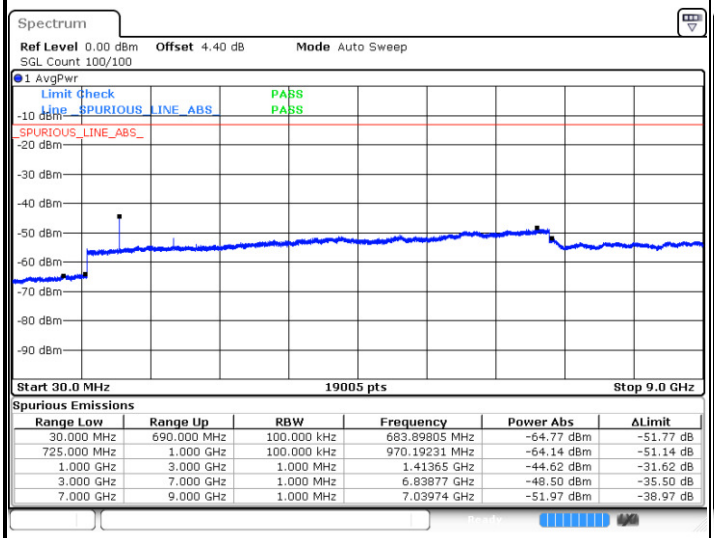



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 672.02399 MHz | -64.80 dBm | -51.80 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 880.08242 MHz | -64.18 dBm | -51.18 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41165 GHz | -44.57 dBm | -31.57 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.86427 GHz | -48.65 dBm | -35.65 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04774 GHz | -52.00 dBm | -39.00 dB |

Date: 31.DEC.2017 18:13:03

### Highest Channel / QPSK

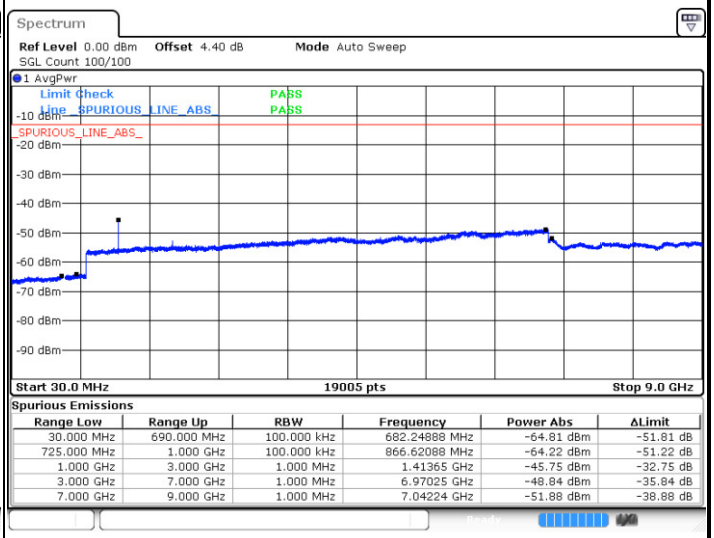



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 683.89805 MHz | -64.77 dBm | -51.77 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 970.19231 MHz | -64.14 dBm | -51.14 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41365 GHz | -44.62 dBm | -31.62 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.83877 GHz | -48.50 dBm | -35.50 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.03974 GHz | -51.97 dBm | -38.97 dB |

Date: 31.DEC.2017 18:19:13

### Highest Channel / 16QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 682.24888 MHz | -64.81 dBm | -51.81 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 866.62088 MHz | -64.22 dBm | -51.22 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41365 GHz | -45.75 dBm | -32.75 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97025 GHz | -48.84 dBm | -35.84 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04224 GHz | -51.88 dBm | -38.88 dB |

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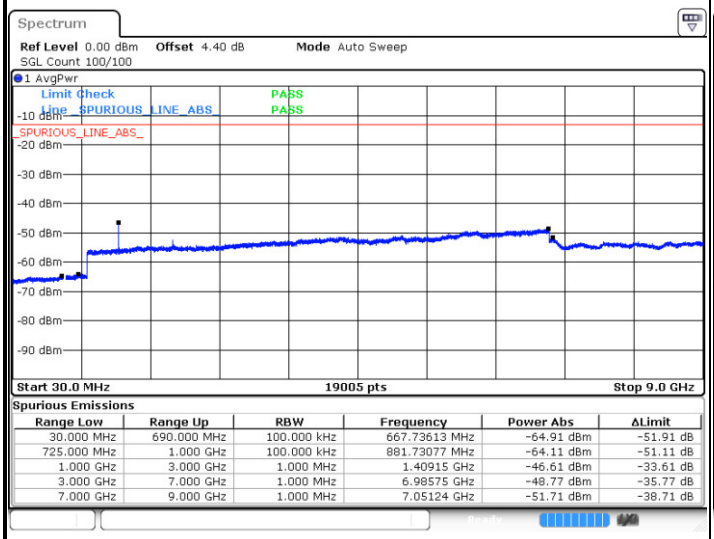
## LTE Band 17 / 5MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 667.73613 MHz | -64.91 dBm | -51.91 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 881.73077 MHz | -64.11 dBm | -51.11 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.40915 GHz | -46.61 dBm | -33.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98575 GHz | -48.77 dBm | -35.77 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05124 GHz | -51.71 dBm | -38.71 dB |

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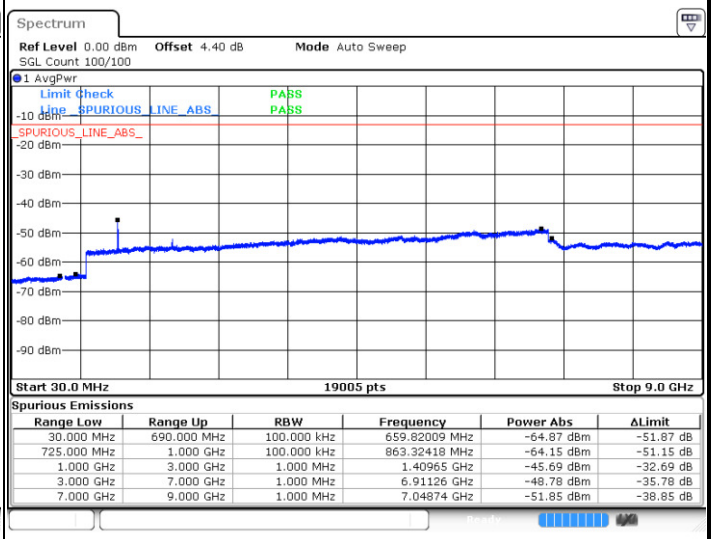
## LTE Band 17 / 10MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 659.82009 MHz | -64.87 dBm | -51.87 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 863.32418 MHz | -64.15 dBm | -51.15 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.40965 GHz | -45.69 dBm | -32.69 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91126 GHz | -48.78 dBm | -35.78 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04874 GHz | -51.85 dBm | -38.85 dB |

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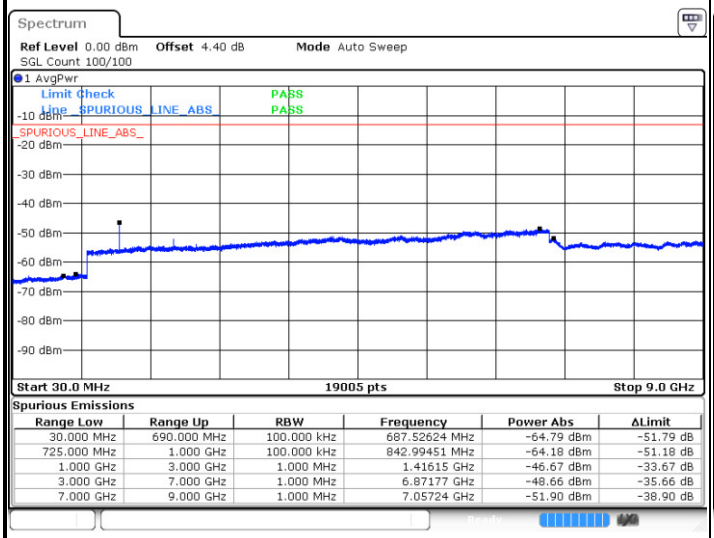
### Middle Channel /64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 687.52624 MHz | -64.79 dBm | -51.79 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 842.99451 MHz | -64.18 dBm | -51.18 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41615 GHz | -46.67 dBm | -33.67 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.87177 GHz | -48.66 dBm | -35.66 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05724 GHz | -51.90 dBm | -38.90 dB |

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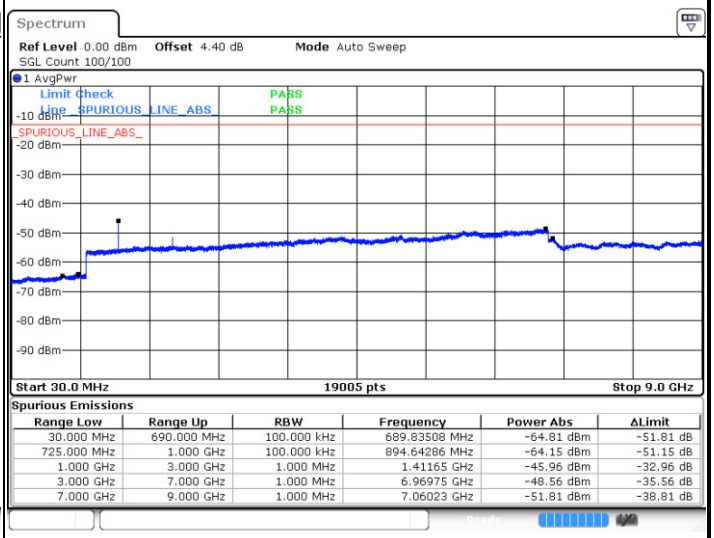
### Middle Channel /64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 689.83508 MHz | -64.81 dBm | -51.81 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 894.64286 MHz | -64.15 dBm | -51.15 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41165 GHz | -45.96 dBm | -32.96 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.96975 GHz | -48.56 dBm | -35.56 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.06023 GHz | -51.81 dBm | -38.81 dB |

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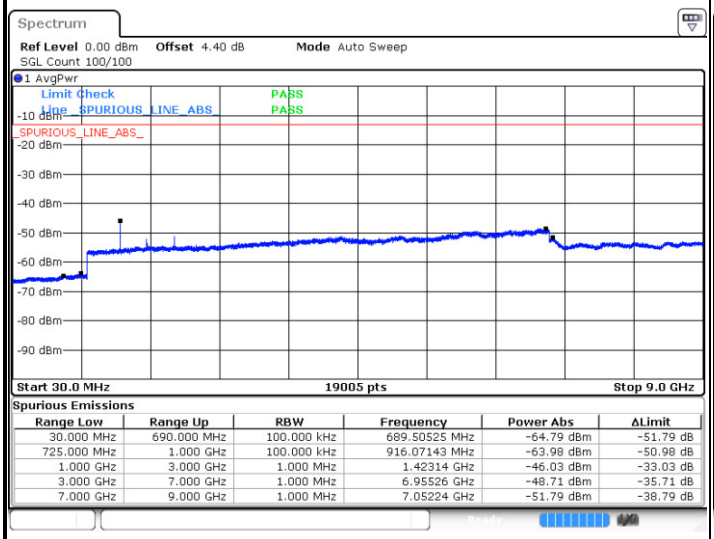
| LTE Band 17 / 5MHz | LTE Band 17 / 10MHz |
|---|---|
| **Highest Channel /64QAM** | **Highest Channel /64QAM** |




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 689.50525 MHz | -64.79 dBm | -51.79 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 916.07143 MHz | -63.98 dBm | -50.98 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.42314 GHz | -46.03 dBm | -33.03 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.95526 GHz | -48.71 dBm | -35.71 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.05224 GHz | -51.79 dBm | -38.79 dB |

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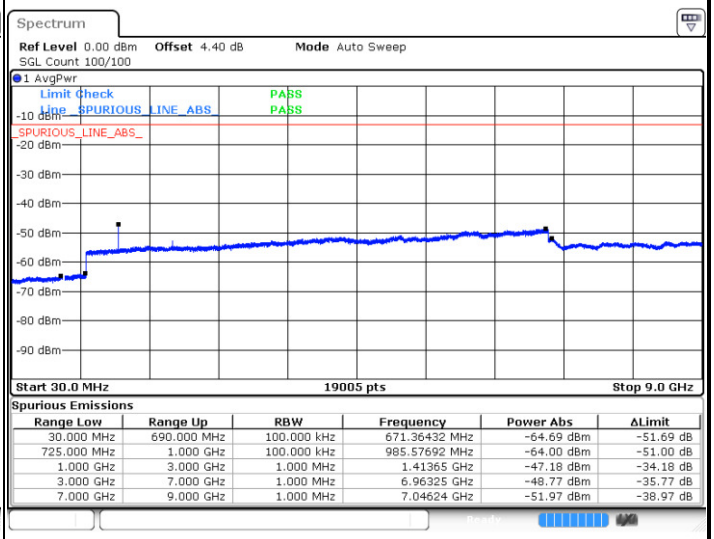


Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 690.000 MHz | 100.000 kHz | 671.36432 MHz | -64.69 dBm | -51.69 dB |
| 725.000 MHz | 1.000 GHz | 100.000 kHz | 985.57692 MHz | -64.00 dBm | -51.00 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.41365 GHz | -47.18 dBm | -34.18 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.96325 GHz | -48.77 dBm | -35.77 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04624 GHz | -51.97 dBm | -38.97 dB |

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# Frequency Stability

| Test Conditions | | LTE Band 2 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0011 | PASS |
| 40 | Normal Voltage | 0.0005 | |
| 30 | Normal Voltage | 0.0019 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0003 | |
| 0 | Normal Voltage | 0.0022 | |
| -10 | Normal Voltage | 0.0026 | |
| -20 | Normal Voltage | 0.0003 | |
| -30 | Normal Voltage | 0.0027 | |
| 20 | Maximum Voltage | 0.0003 | |
| 20 | Normal Voltage | 0.0001 | |
| 20 | Battery End Point | 0.0022 | |

**Note:**

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

| Test Conditions | | LTE Band 4 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0012 | PASS |
| 40 | Normal Voltage | 0.0005 | |
| 30 | Normal Voltage | 0.0011 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0007 | |
| 0 | Normal Voltage | 0.0016 | |
| -10 | Normal Voltage | 0.0001 | |
| -20 | Normal Voltage | 0.0005 | |
| -30 | Normal Voltage | 0.0013 | |
| 20 | Maximum Voltage | 0.0006 | |
| 20 | Normal Voltage | 0.0008 | |
| 20 | Battery End Point | 0.0002 | |

**Note:**

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

| Test Conditions | | LTE Band 5 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0048 | PASS |
| 40 | Normal Voltage | 0.0020 | |
| 30 | Normal Voltage | 0.0004 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0055 | |
| 0 | Normal Voltage | 0.0069 | |
| -10 | Normal Voltage | 0.0063 | |
| -20 | Normal Voltage | 0.0022 | |
| -30 | Normal Voltage | 0.0026 | |
| 20 | Maximum Voltage | 0.0016 | |
| 20 | Normal Voltage | 0.0001 | |
| 20 | Battery End Point | 0.0062 | |

**Note:** Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.

| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0022 | PASS |
| 40 | Normal Voltage | 0.0026 | |
| 30 | Normal Voltage | 0.0009 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0019 | |
| 0 | Normal Voltage | 0.0030 | |
| -10 | Normal Voltage | 0.0002 | |
| -20 | Normal Voltage | 0.0004 | |
| -30 | Normal Voltage | 0.0021 | |
| 20 | Maximum Voltage | 0.0006 | |
| 20 | Normal Voltage | 0.0024 | |
| 20 | Battery End Point | 0.0027 | |

**Note:**

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

| Test Conditions | | LTE Band 12 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0008 | PASS |
| 40 | Normal Voltage | 0.0014 | |
| 30 | Normal Voltage | 0.0081 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0066 | |
| 0 | Normal Voltage | 0.0001 | |
| -10 | Normal Voltage | 0.0014 | |
| -20 | Normal Voltage | 0.0071 | |
| -30 | Normal Voltage | 0.0062 | |
| 20 | Maximum Voltage | 0.0010 | |
| 20 | Normal Voltage | 0.0006 | |
| 20 | Battery End Point | 0.0089 | |

**Note:**

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

| Test Conditions | | LTE Band 17 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0018 | PASS |
| 40 | Normal Voltage | 0.0004 | |
| 30 | Normal Voltage | 0.0052 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0041 | |
| 0 | Normal Voltage | 0.0049 | |
| -10 | Normal Voltage | 0.0006 | |
| -20 | Normal Voltage | 0.0045 | |
| -30 | Normal Voltage | 0.0058 | |
| 20 | Maximum Voltage | 0.0011 | |
| 20 | Normal Voltage | 0.0007 | |
| 20 | Battery End Point | 0.0048 | |

**Note:**

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3758.92 | -57.81 | -13 | -44.81 | -77.14 | -64.56 | 5.85 | 12.60 | H |
| | 5638.38 | -55.46 | -13 | -42.46 | -78.62 | -61.26 | 7.30 | 13.10 | H |
| | 7517.84 | -51.49 | -13 | -38.49 | -78.51 | -54.64 | 8.35 | 11.50 | H |
| | 3758.92 | -57.69 | -13 | -44.69 | -77.29 | -64.44 | 5.85 | 12.60 | V |
| | 5638.38 | -54.75 | -13 | -41.75 | -78.48 | -60.55 | 7.30 | 13.10 | V |
| | 7517.84 | -51.48 | -13 | -38.48 | -78.53 | -54.63 | 8.35 | 11.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3757.48 | -57.99 | -13 | -44.99 | -77.32 | -64.74 | 5.85 | 12.60 | H |
| | 5636.22 | -55.41 | -13 | -42.41 | -78.57 | -61.21 | 7.30 | 13.10 | H |
| | 7514.96 | -51.47 | -13 | -38.47 | -78.50 | -54.62 | 8.35 | 11.50 | H |
| | 3757.48 | -57.46 | -13 | -44.46 | -77.06 | -64.21 | 5.85 | 12.60 | V |
| | 5636.22 | -54.68 | -13 | -41.68 | -78.41 | -60.48 | 7.30 | 13.10 | V |
| | 7514.96 | -51.41 | -13 | -38.41 | -78.47 | -54.56 | 8.35 | 11.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3755.68 | -57.68 | -13 | -44.68 | -77.01 | -64.43 | 5.85 | 12.60 | H |
| | 5633.52 | -55.46 | -13 | -42.46 | -78.62 | -61.26 | 7.30 | 13.10 | H |
| | 7511.36 | -51.35 | -13 | -38.35 | -78.38 | -54.50 | 8.35 | 11.50 | H |
| | 3755.68 | -57.64 | -13 | -44.64 | -77.24 | -64.39 | 5.85 | 12.60 | V |
| | 5633.52 | -54.91 | -13 | -41.91 | -78.64 | -60.71 | 7.30 | 13.10 | V |
| | 7511.36 | -51.19 | -13 | -38.19 | -78.25 | -54.34 | 8.35 | 11.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3751.18 | -55.12 | -13 | -42.12 | -74.45 | -61.87 | 5.85 | 12.60 | H |
| | 5626.77 | -55.41 | -13 | -42.41 | -78.65 | -61.21 | 7.30 | 13.10 | H |
| | 7502 | -51.35 | -13 | -38.35 | -78.49 | -54.50 | 8.35 | 11.50 | H |
| | 3751.18 | -57.66 | -13 | -44.66 | -77.26 | -64.41 | 5.85 | 12.60 | V |
| | 5626.77 | -54.68 | -13 | -41.68 | -78.5 | -60.48 | 7.30 | 13.10 | V |
| | 7502 | -51.42 | -13 | -38.42 | -78.57 | -54.57 | 8.35 | 11.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3746.68 | -58.10 | -13 | -45.10 | -77.43 | -64.85 | 5.85 | 12.60 | H |
| | 5620.02 | -55.13 | -13 | -42.13 | -78.37 | -60.93 | 7.30 | 13.10 | H |
| | 7493.36 | -51.09 | -13 | -38.09 | -78.23 | -54.24 | 8.35 | 11.50 | H |
| | 3746.68 | -57.63 | -13 | -44.63 | -77.23 | -64.38 | 5.85 | 12.60 | V |
| | 5620.02 | -54.61 | -13 | -41.61 | -78.43 | -60.41 | 7.30 | 13.10 | V |
| | 7493.36 | -51.03 | -13 | -38.03 | -78.18 | -54.18 | 8.35 | 11.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3742.18 | -57.70 | -13 | -44.70 | -77.01 | -64.45 | 5.85 | 12.60 | H |
| | 5613.27 | -55.17 | -13 | -42.17 | -78.48 | -60.97 | 7.30 | 13.10 | H |
| | 7484.36 | -51.23 | -13 | -38.23 | -78.49 | -54.38 | 8.35 | 11.50 | H |
| | 3742.18 | -57.68 | -13 | -44.68 | -77.28 | -64.43 | 5.85 | 12.60 | V |
| | 5613.27 | -54.55 | -13 | -41.55 | -78.44 | -60.35 | 7.30 | 13.10 | V |
| | 7484.36 | -50.90 | -13 | -37.90 | -78.15 | -54.05 | 8.35 | 11.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3463.74 | -58.76 | -13 | -45.76 | -76.68 | -65.61 | 5.65 | 12.50 | H |
| | 5195.61 | -55.58 | -13 | -42.58 | -78.73 | -61.25 | 7.13 | 12.80 | H |
| | 6927.48 | -53.02 | -13 | -40.02 | -78.75 | -56.42 | 8.40 | 11.80 | H |
| | 3463.74 | -58.27 | -13 | -45.27 | -76.55 | -65.12 | 5.65 | 12.50 | V |
| | 5195.61 | -54.98 | -13 | -41.98 | -78.8 | -60.65 | 7.13 | 12.80 | V |
| | 6927.48 | -52.53 | -13 | -39.53 | -78.79 | -55.93 | 8.40 | 11.80 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3462.48 | -58.72 | -13 | -45.72 | -76.64 | -65.57 | 5.65 | 12.50 | H |
| | 5193.72 | -55.58 | -13 | -42.58 | -78.74 | -61.25 | 7.13 | 12.80 | H |
| | 6924.96 | -52.73 | -13 | -39.73 | -78.46 | -56.13 | 8.40 | 11.80 | H |
| | 3462.48 | -58.30 | -13 | -45.30 | -76.58 | -65.15 | 5.65 | 12.50 | V |
| | 5193.72 | -54.76 | -13 | -41.76 | -78.59 | -60.43 | 7.13 | 12.80 | V |
| | 6924.96 | -52.40 | -13 | -39.40 | -78.66 | -55.80 | 8.40 | 11.80 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3460.68 | -59.02 | -13 | -46.02 | -76.94 | -65.87 | 5.65 | 12.50 | H |
| | 5191.02 | -55.87 | -13 | -42.87 | -79.03 | -61.54 | 7.13 | 12.80 | H |
| | 6921.36 | -52.78 | -13 | -39.78 | -78.37 | -56.18 | 8.40 | 11.80 | H |
| | 3460.68 | -58.59 | -13 | -45.59 | -76.87 | -65.44 | 5.65 | 12.50 | V |
| | 5191.02 | -55.02 | -13 | -42.02 | -78.85 | -60.69 | 7.13 | 12.80 | V |
| | 6921.36 | -52.29 | -13 | -39.29 | -78.43 | -55.69 | 8.40 | 11.80 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3456.18 | -58.82 | -13 | -45.82 | -76.58 | -65.67 | 5.65 | 12.50 | H |
| | 5184.27 | -55.40 | -13 | -42.40 | -78.56 | -61.07 | 7.13 | 12.80 | H |
| | 6912.36 | -52.85 | -13 | -39.85 | -78.44 | -56.25 | 8.40 | 11.80 | H |
| | 3456.18 | -58.45 | -13 | -45.45 | -76.56 | -65.30 | 5.65 | 12.50 | V |
| | 5184.27 | -54.97 | -13 | -41.97 | -78.81 | -60.64 | 7.13 | 12.80 | V |
| | 6912.36 | -52.40 | -13 | -39.40 | -78.54 | -55.80 | 8.40 | 11.80 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3451.68 | -58.86 | -13 | -45.86 | -76.62 | -65.71 | 5.65 | 12.50 | H |
| | 5177.52 | -55.09 | -13 | -42.09 | -78.25 | -60.76 | 7.13 | 12.80 | H |
| | 6903.36 | -53.20 | -13 | -40.20 | -78.66 | -56.60 | 8.40 | 11.80 | H |
| | 3451.68 | -58.28 | -13 | -45.28 | -76.39 | -65.13 | 5.65 | 12.50 | V |
| | 5177.52 | -54.82 | -13 | -41.82 | -78.66 | -60.49 | 7.13 | 12.80 | V |
| | 6903.36 | -52.37 | -13 | -39.37 | -78.39 | -55.77 | 8.40 | 11.80 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3447.18 | -58.21 | -13 | -45.21 | -75.97 | -65.06 | 5.65 | 12.50 | H |
| | 5170.77 | -55.24 | -13 | -42.24 | -78.39 | -60.91 | 7.13 | 12.80 | H |
| | 6894.36 | -53.05 | -13 | -40.05 | -78.53 | -56.45 | 8.40 | 11.80 | H |
| | 3447.18 | -58.44 | -13 | -45.44 | -76.55 | -65.29 | 5.65 | 12.50 | V |
| | 5170.77 | -54.63 | -13 | -41.63 | -78.48 | -60.30 | 7.13 | 12.80 | V |
| | 6894.36 | -52.57 | -13 | -39.57 | -78.61 | -55.97 | 8.40 | 11.80 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1671.92 | -63.66 | -13 | -50.66 | -75.03 | -66.91 | 4.00 | 9.40 | H |
| | 2507.88 | -55.77 | -13 | -42.77 | -71.51 | -59.34 | 4.88 | 10.60 | H |
| | 3343.84 | -59.11 | -13 | -46.11 | -76.49 | -64.04 | 5.52 | 12.60 | H |
| | 1671.92 | -63.40 | -13 | -50.40 | -74.77 | -66.65 | 4.00 | 9.40 | V |
| | 2507.88 | -58.45 | -13 | -45.45 | -73.79 | -62.02 | 4.88 | 10.60 | V |
| | 3343.84 | -59.02 | -13 | -46.02 | -76.63 | -63.95 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1670.48 | -63.71 | -13 | -50.71 | -75.20 | -66.96 | 4.00 | 9.40 | H |
| | 2505.72 | -53.80 | -13 | -40.80 | -69.54 | -57.37 | 4.88 | 10.60 | H |
| | 3340.96 | -58.98 | -13 | -45.98 | -76.36 | -63.91 | 5.52 | 12.60 | H |
| | 1670.48 | -63.52 | -13 | -50.52 | -75.03 | -66.77 | 4.00 | 9.40 | V |
| | 2505.72 | -57.97 | -13 | -44.97 | -73.31 | -61.54 | 4.88 | 10.60 | V |
| | 3340.96 | -58.74 | -13 | -45.74 | -76.35 | -63.67 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1668.68 | -63.72 | -13 | -50.72 | -75.21 | -66.97 | 4.00 | 9.40 | H |
| | 2503.02 | -54.43 | -13 | -41.43 | -70.21 | -58.00 | 4.88 | 10.60 | H |
| | 3337.36 | -59.27 | -13 | -46.27 | -76.71 | -64.20 | 5.52 | 12.60 | H |
| | 1668.68 | -63.65 | -13 | -50.65 | -75.16 | -66.90 | 4.00 | 9.40 | V |
| | 2503.02 | -58.51 | -13 | -45.51 | -73.89 | -62.08 | 4.88 | 10.60 | V |
| | 3337.36 | -58.87 | -13 | -45.87 | -76.52 | -63.80 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1664.18 | -63.19 | -13 | -50.19 | -74.68 | -66.44 | 4.00 | 9.40 | H |
| | 2496.27 | -54.28 | -13 | -41.28 | -70.06 | -57.85 | 4.88 | 10.60 | H |
| | 3328.36 | -58.94 | -13 | -45.94 | -76.38 | -63.87 | 5.52 | 12.60 | H |
| | 1664.18 | -63.74 | -13 | -50.74 | -75.25 | -66.99 | 4.00 | 9.40 | V |
| | 2496.27 | -54.82 | -13 | -41.82 | -70.20 | -58.39 | 4.88 | 10.60 | V |
| | 3328.36 | -58.68 | -13 | -45.68 | -76.33 | -63.61 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

## < Antenna #3>

| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5065.68 | -56.44 | -25 | -31.44 | -79.58 | -62.00 | 7.14 | 12.70 | H |
| | 7598.52 | -52.03 | -25 | -27.03 | -78.47 | -55.33 | 8.30 | 11.60 | H |
| | 10131.36 | -47.56 | -25 | -22.56 | -79.03 | -49.08 | 10.48 | 12.00 | H |
| | 5065.68 | -55.55 | -25 | -30.55 | -79.48 | -61.11 | 7.14 | 12.70 | V |
| | 7598.52 | -52.04 | -25 | -27.04 | -78.61 | -55.34 | 8.30 | 11.60 | V |
| | 10131.36 | -47.27 | -25 | -22.27 | -78.51 | -48.79 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5061.18 | -56.25 | -25 | -31.25 | -79.39 | -61.81 | 7.14 | 12.70 | H |
| | 7591.77 | -51.75 | -25 | -26.75 | -78.19 | -55.05 | 8.30 | 11.60 | H |
| | 10122.36 | -47.22 | -25 | -22.22 | -78.69 | -48.74 | 10.48 | 12.00 | H |
| | 5061.18 | -55.51 | -25 | -30.51 | -79.44 | -61.07 | 7.14 | 12.70 | V |
| | 7591.77 | -51.61 | -25 | -26.61 | -78.18 | -54.91 | 8.30 | 11.60 | V |
| | 10122.36 | -47.51 | -25 | -22.51 | -78.75 | -49.03 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5056.68 | -56.17 | -25 | -31.17 | -79.31 | -61.73 | 7.14 | 12.70 | H |
| | 7585.02 | -52.12 | -25 | -27.12 | -78.68 | -55.42 | 8.30 | 11.60 | H |
| | 10113.36 | -46.94 | -25 | -21.94 | -78.44 | -48.46 | 10.48 | 12.00 | H |
| | 5056.68 | -55.47 | -25 | -30.47 | -79.4 | -61.03 | 7.14 | 12.70 | V |
| | 7585.02 | -51.84 | -25 | -26.84 | -78.51 | -55.14 | 8.30 | 11.60 | V |
| | 10113.36 | -47.70 | -25 | -22.70 | -78.94 | -49.22 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5052.18 | -56.27 | -25 | -31.27 | -79.40 | -61.83 | 7.14 | 12.70 | H |
| | 7578.27 | -51.90 | -25 | -26.90 | -78.46 | -55.20 | 8.30 | 11.60 | H |
| | 10104.36 | -47.09 | -25 | -22.09 | -78.59 | -48.61 | 10.48 | 12.00 | H |
| | 5052.18 | -55.16 | -25 | -30.16 | -79.1 | -60.72 | 7.14 | 12.70 | V |
| | 7578.27 | -51.70 | -25 | -26.70 | -78.37 | -55.00 | 8.30 | 11.60 | V |
| | 10104.36 | -47.23 | -25 | -22.23 | -78.47 | -48.75 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

## < Antenna #2>

| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5065.68 | -56.12 | -25 | -31.12 | -79.26 | -61.68 | 7.14 | 12.70 | H |
| | 7598.52 | -51.92 | -25 | -26.92 | -78.36 | -55.22 | 8.30 | 11.60 | H |
| | 10131.36 | -47.15 | -25 | -22.15 | -78.62 | -48.67 | 10.48 | 12.00 | H |
| | 5065.68 | -55.49 | -25 | -30.49 | -79.42 | -61.05 | 7.14 | 12.70 | V |
| | 7598.52 | -51.84 | -25 | -26.84 | -78.41 | -55.14 | 8.30 | 11.60 | V |
| | 10131.36 | -47.23 | -25 | -22.23 | -78.47 | -48.75 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5061.18 | -56.24 | -25 | -31.24 | -79.38 | -61.80 | 7.14 | 12.70 | H |
| | 7591.77 | -51.87 | -25 | -26.87 | -78.31 | -55.17 | 8.30 | 11.60 | H |
| | 10122.36 | -46.91 | -25 | -21.91 | -78.38 | -48.43 | 10.48 | 12.00 | H |
| | 5061.18 | -55.40 | -25 | -30.40 | -79.33 | -60.96 | 7.14 | 12.70 | V |
| | 7591.77 | -51.64 | -25 | -26.64 | -78.21 | -54.94 | 8.30 | 11.60 | V |
| | 10122.36 | -47.05 | -25 | -22.05 | -78.29 | -48.57 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5056.68 | -56.24 | -25 | -31.24 | -79.38 | -61.80 | 7.14 | 12.70 | H |
| | 7585.02 | -52.04 | -25 | -27.04 | -78.60 | -55.34 | 8.30 | 11.60 | H |
| | 10113.36 | -47.08 | -25 | -22.08 | -78.58 | -48.60 | 10.48 | 12.00 | H |
| | 5056.68 | -55.28 | -25 | -30.28 | -79.21 | -60.84 | 7.14 | 12.70 | V |
| | 7585.02 | -51.72 | -25 | -26.72 | -78.39 | -55.02 | 8.30 | 11.60 | V |
| | 10113.36 | -47.45 | -25 | -22.45 | -78.69 | -48.97 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5052.18 | -55.96 | -25 | -30.96 | -79.09 | -61.52 | 7.14 | 12.70 | H |
| | 7578.27 | -51.88 | -25 | -26.88 | -78.44 | -55.18 | 8.30 | 11.60 | H |
| | 10104.36 | -47.16 | -25 | -22.16 | -78.66 | -48.68 | 10.48 | 12.00 | H |
| | 5052.18 | -55.16 | -25 | -30.16 | -79.1 | -60.72 | 7.14 | 12.70 | V |
| | 7578.27 | -51.56 | -25 | -26.56 | -78.23 | -54.86 | 8.30 | 11.60 | V |
| | 10104.36 | -47.82 | -25 | -22.82 | -79.06 | -49.34 | 10.48 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1413.74 | -62.37 | -13 | -49.37 | -74.48 | -65.62 | 4.00 | 9.40 | H |
| | 2120.61 | -59.52 | -13 | -46.52 | -75.50 | -63.09 | 4.88 | 10.60 | H |
| | 2827.48 | -58.83 | -13 | -45.83 | -75.70 | -63.76 | 5.52 | 12.60 | H |
| | 1413.74 | -62.59 | -13 | -49.59 | -74.35 | -65.84 | 4.00 | 9.40 | V |
| | 2120.61 | -59.56 | -13 | -46.56 | -75.66 | -63.13 | 4.88 | 10.60 | V |
| | 2827.48 | -59.11 | -13 | -46.11 | -76.04 | -64.04 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1412.3 | -62.13 | -13 | -49.13 | -74.24 | -65.38 | 4.00 | 9.40 | H |
| | 2118.45 | -58.87 | -13 | -45.87 | -74.85 | -62.44 | 4.88 | 10.60 | H |
| | 2824.6 | -59.19 | -13 | -46.19 | -76.06 | -64.12 | 5.52 | 12.60 | H |
| | 1412.3 | -62.28 | -13 | -49.28 | -74.04 | -65.53 | 4.00 | 9.40 | V |
| | 2118.45 | -58.70 | -13 | -45.70 | -74.80 | -62.27 | 4.88 | 10.60 | V |
| | 2824.6 | -59.18 | -13 | -46.18 | -76.11 | -64.11 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1410.5 | -62.37 | -13 | -49.37 | -74.48 | -65.62 | 4.00 | 9.40 | H |
| | 2115.75 | -59.31 | -13 | -46.31 | -75.29 | -62.88 | 4.88 | 10.60 | H |
| | 2821 | -58.83 | -13 | -45.83 | -75.70 | -63.76 | 5.52 | 12.60 | H |
| | 1410.5 | -62.51 | -13 | -49.51 | -74.27 | -65.76 | 4.00 | 9.40 | V |
| | 2115.75 | -59.47 | -13 | -46.47 | -75.57 | -63.04 | 4.88 | 10.60 | V |
| | 2821 | -59.16 | -13 | -46.16 | -76.09 | -64.09 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1406 | -62.22 | -13 | -49.22 | -74.33 | -65.47 | 4.00 | 9.40 | H |
| | 2109 | -59.87 | -13 | -46.87 | -75.60 | -63.44 | 4.88 | 10.60 | H |
| | 2812 | -59.03 | -13 | -46.03 | -75.90 | -63.96 | 5.52 | 12.60 | H |
| | 1406 | -62.39 | -13 | -49.39 | -74.15 | -65.64 | 4.00 | 9.40 | V |
| | 2109 | -59.84 | -13 | -46.84 | -75.67 | -63.41 | 4.88 | 10.60 | V |
| | 2812 | -59.09 | -13 | -46.09 | -76.02 | -64.02 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1415.68 | -62.10 | -13 | -49.10 | -74.21 | -65.35 | 4.00 | 9.40 | H |
| | 2123.58 | -59.77 | -13 | -46.77 | -75.75 | -63.34 | 4.88 | 10.60 | H |
| | 2831.36 | -59.05 | -13 | -46.05 | -75.96 | -63.98 | 5.52 | 12.60 | H |
| | 1415.68 | -62.40 | -13 | -49.40 | -74.16 | -65.65 | 4.00 | 9.40 | V |
| | 2123.58 | -59.52 | -13 | -46.52 | -75.62 | -63.09 | 4.88 | 10.60 | V |
| | 2831.36 | -59.17 | -13 | -46.17 | -76.13 | -64.10 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1411.18 | -62.24 | -13 | -49.24 | -74.35 | -65.49 | 4.00 | 9.40 | H |
| | 2116.77 | -59.45 | -13 | -46.45 | -75.43 | -63.02 | 4.88 | 10.60 | H |
| | 2822.36 | -59.04 | -13 | -46.04 | -75.91 | -63.97 | 5.52 | 12.60 | H |
| | 1411.18 | -62.59 | -13 | -49.59 | -74.35 | -65.84 | 4.00 | 9.40 | V |
| | 2116.77 | -59.74 | -13 | -46.74 | -75.84 | -63.31 | 4.88 | 10.60 | V |
| | 2822.36 | -59.17 | -13 | -46.17 | -76.10 | -64.10 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.