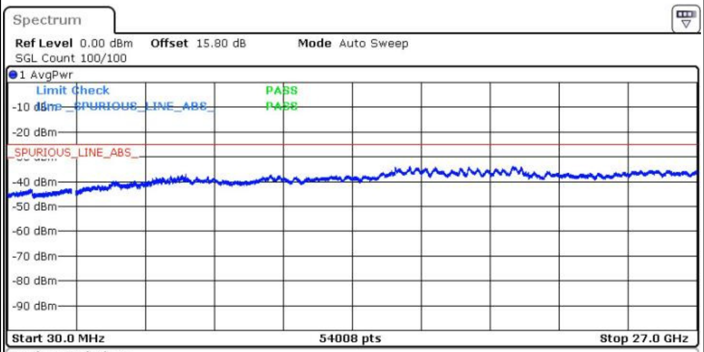
## LTE Band 41 / 10MHz

### Middle Channel / QPSK

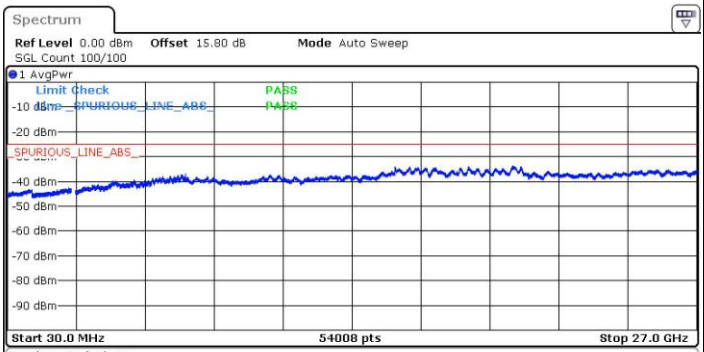



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 925.86913 MHz | -43.12 dBm | -18.12 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.32965 GHz | -42.84 dBm | -17.84 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.97687 GHz | -42.55 dBm | -17.55 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98975 GHz | -37.07 dBm | -12.07 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85861 GHz | -37.94 dBm | -12.94 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.30821 GHz | -37.31 dBm | -12.31 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76553 GHz | -33.73 dBm | -8.73 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79665 GHz | -33.98 dBm | -8.98 dB |

Date: 7.APR.2017 14:01:48

### Middle Channel / 16QAM

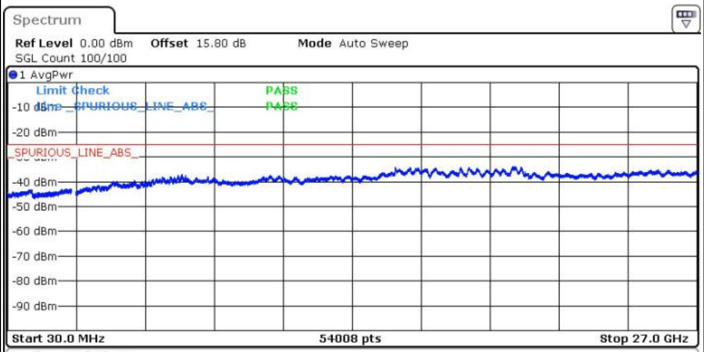



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 980.13487 MHz | -43.37 dBm | -18.37 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.43151 GHz | -42.70 dBm | -17.70 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98883 GHz | -42.39 dBm | -17.39 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99325 GHz | -37.04 dBm | -12.04 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86311 GHz | -37.93 dBm | -12.93 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31321 GHz | -37.30 dBm | -12.30 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76653 GHz | -34.00 dBm | -9.00 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.84465 GHz | -33.80 dBm | -8.80 dB |

Date: 7.APR.2017 14:02:43

### Highest Channel / QPSK

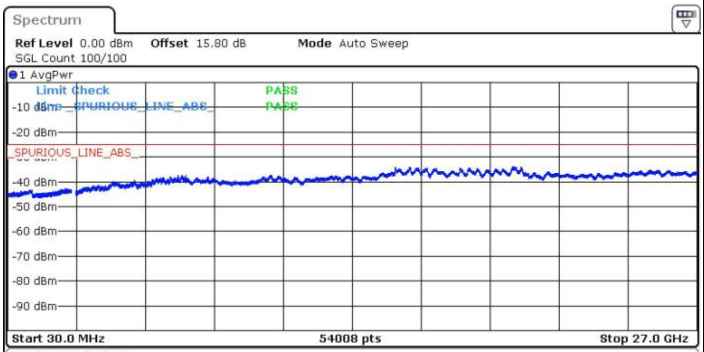



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 895.82917 MHz | -43.19 dBm | -18.19 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.33533 GHz | -42.80 dBm | -17.80 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98914 GHz | -42.75 dBm | -17.75 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85377 GHz | -37.14 dBm | -12.14 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86811 GHz | -37.89 dBm | -12.89 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.30321 GHz | -37.40 dBm | -12.40 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77203 GHz | -34.18 dBm | -9.18 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.87765 GHz | -33.92 dBm | -8.92 dB |

Date: 7.APR.2017 14:08:16

### Highest Channel / 16QAM



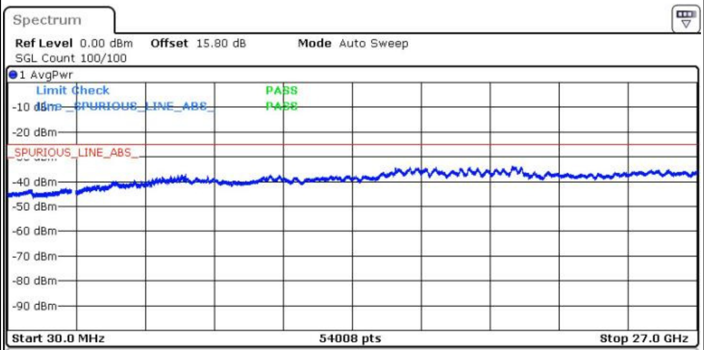

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 984.01099 MHz | -43.30 dBm | -18.30 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.29368 GHz | -42.46 dBm | -17.46 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.97341 GHz | -42.49 dBm | -17.49 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99075 GHz | -37.20 dBm | -12.20 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86711 GHz | -38.08 dBm | -13.08 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.29671 GHz | -37.23 dBm | -12.23 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76953 GHz | -34.00 dBm | -9.00 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.78465 GHz | -33.67 dBm | -8.67 dB |

Date: 7.APR.2017 14:09:11

## LTE Band 41 / 15MHz

### Lowest Channel / QPSK

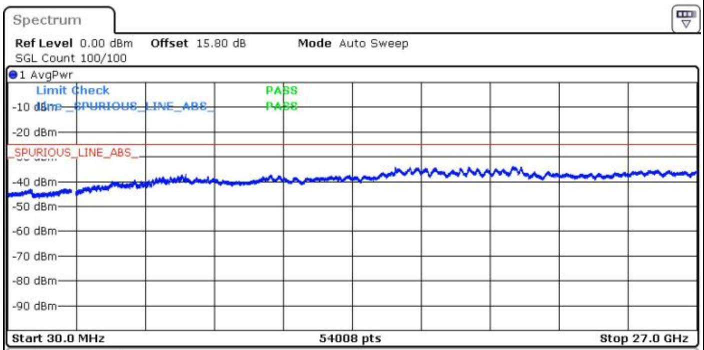



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 907.45754 MHz | -43.22 dBm | -18.22 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.31640 GHz | -42.71 dBm | -17.71 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99890 GHz | -42.56 dBm | -17.56 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99075 GHz | -37.09 dBm | -12.09 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86011 GHz | -37.74 dBm | -12.74 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.65817 GHz | -37.41 dBm | -12.41 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77503 GHz | -34.08 dBm | -9.08 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.78165 GHz | -33.83 dBm | -8.83 dB |

Date: 7.APR.2017 14:14:47

### Lowest Channel / 16QAM

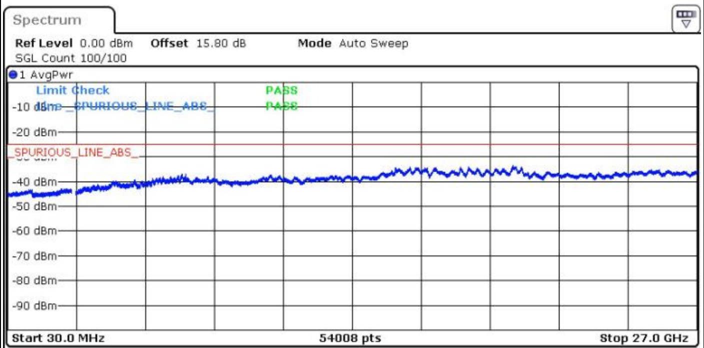



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 920.05495 MHz | -43.13 dBm | -18.13 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.25467 GHz | -42.93 dBm | -17.93 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98191 GHz | -42.54 dBm | -17.54 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98925 GHz | -37.03 dBm | -12.03 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86811 GHz | -38.06 dBm | -13.06 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.39883 GHz | -37.33 dBm | -12.33 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76953 GHz | -34.08 dBm | -9.08 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79565 GHz | -33.82 dBm | -8.82 dB |

Date: 7.APR.2017 14:15:42

### Middle Channel / QPSK

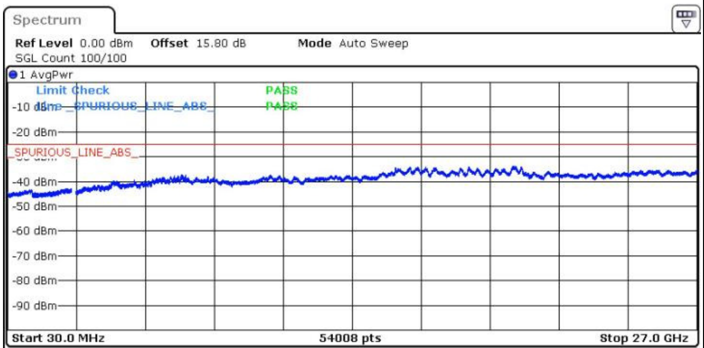



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 929.74525 MHz | -43.33 dBm | -18.33 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.33609 GHz | -42.82 dBm | -17.82 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.97561 GHz | -42.54 dBm | -17.54 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99925 GHz | -36.92 dBm | -11.92 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86861 GHz | -38.16 dBm | -13.16 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.32121 GHz | -37.45 dBm | -12.45 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 17.74178 GHz | -34.00 dBm | -9.00 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79065 GHz | -33.62 dBm | -8.62 dB |

Date: 7.APR.2017 14:16:38

### Middle Channel / 16QAM



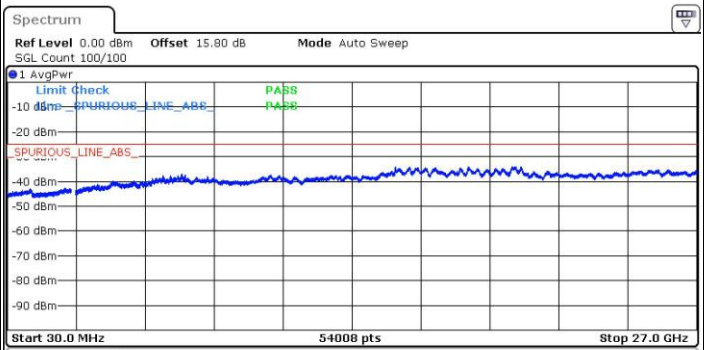

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 880.32468 MHz | -43.43 dBm | -18.43 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.47695 GHz | -42.81 dBm | -17.81 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98285 GHz | -42.64 dBm | -17.64 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99675 GHz | -37.24 dBm | -12.24 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86211 GHz | -37.99 dBm | -12.99 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31671 GHz | -37.42 dBm | -12.42 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77353 GHz | -34.17 dBm | -9.17 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.83315 GHz | -33.84 dBm | -8.84 dB |

Date: 7.APR.2017 14:17:33

## LTE Band 41 / 15MHz

### Highest Channel / QPSK

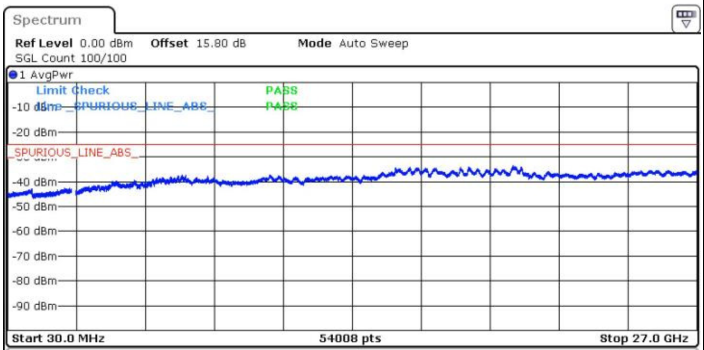



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 909.39560 MHz | -43.13 dBm | -18.13 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.29216 GHz | -42.70 dBm | -17.70 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98946 GHz | -42.61 dBm | -17.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.84727 GHz | -36.86 dBm | -11.86 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86261 GHz | -38.03 dBm | -13.03 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.32871 GHz | -37.35 dBm | -12.35 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77403 GHz | -34.04 dBm | -9.04 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79965 GHz | -33.98 dBm | -8.98 dB |

Date: 7.APR.2017 14:23:06

### Highest Channel / 16QAM



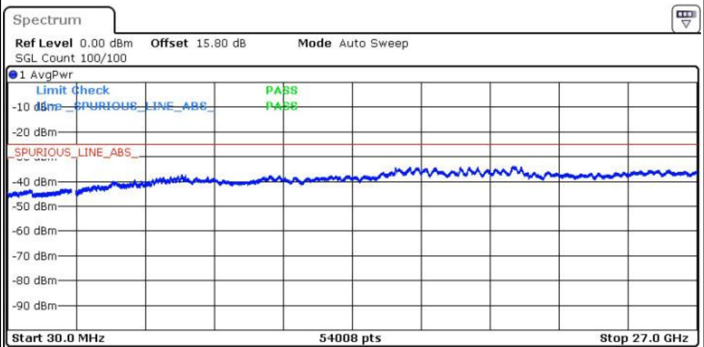

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 988.85614 MHz | -43.07 dBm | -18.07 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.25581 GHz | -42.70 dBm | -17.70 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99512 GHz | -42.53 dBm | -17.53 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99175 GHz | -37.19 dBm | -12.19 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86061 GHz | -37.75 dBm | -12.75 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31621 GHz | -37.32 dBm | -12.32 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76003 GHz | -34.19 dBm | -9.19 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79465 GHz | -33.59 dBm | -8.59 dB |

Date: 7.APR.2017 14:24:02

## LTE Band 41 / 20MHz

### Lowest Channel / QPSK

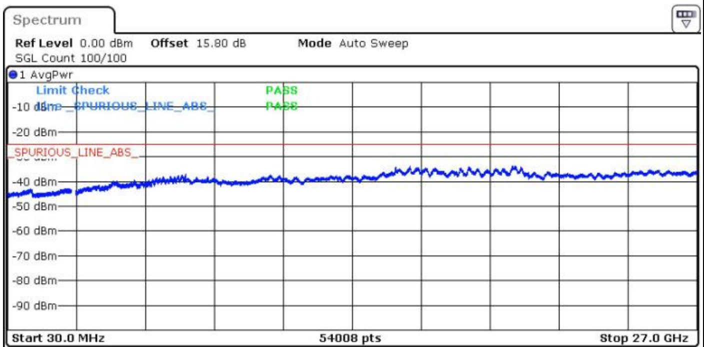



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 883.23177 MHz | -43.38 dBm | -18.38 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.49966 GHz | -42.79 dBm | -17.79 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99355 GHz | -42.48 dBm | -17.48 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98975 GHz | -37.16 dBm | -12.16 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85711 GHz | -38.05 dBm | -13.05 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.29721 GHz | -37.55 dBm | -12.55 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77253 GHz | -34.00 dBm | -9.00 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.87065 GHz | -33.97 dBm | -8.97 dB |

Date: 7.APR.2017 14:29:37

### Lowest Channel / 16QAM




Spurious Emissions

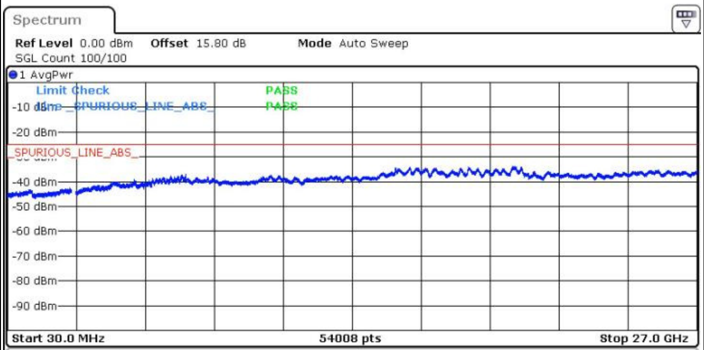
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 930.71429 MHz | -43.08 dBm | -18.08 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.37395 GHz | -42.90 dBm | -17.90 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98757 GHz | -42.61 dBm | -17.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99375 GHz | -36.82 dBm | -11.82 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86161 GHz | -38.12 dBm | -13.12 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31271 GHz | -37.33 dBm | -12.33 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77453 GHz | -33.96 dBm | -8.96 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.77965 GHz | -33.88 dBm | -8.88 dB |

Date: 7.APR.2017 14:30:33


TEL : 886-3-327-3456
FAX : 886-3-328-4978

## LTE Band 41 / 20MHz

### Middle Channel / QPSK

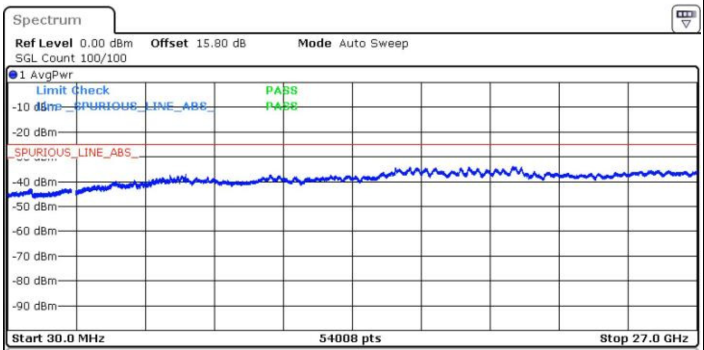



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 914.24076 MHz | -43.30 dBm | -18.30 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.46293 GHz | -42.77 dBm | -17.77 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99733 GHz | -42.62 dBm | -17.62 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99025 GHz | -37.12 dBm | -12.12 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85811 GHz | -38.06 dBm | -13.06 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.32371 GHz | -37.24 dBm | -12.24 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77653 GHz | -34.27 dBm | -9.27 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79665 GHz | -33.96 dBm | -8.96 dB |

Date: 7.APR.2017 14:31:28

### Middle Channel / 16QAM

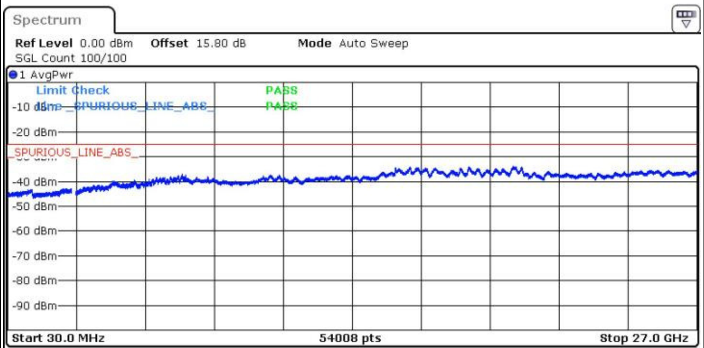



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 961.72328 MHz | -43.01 dBm | -18.01 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.31147 GHz | -42.86 dBm | -17.86 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98128 GHz | -42.70 dBm | -17.70 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99175 GHz | -36.91 dBm | -11.91 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85461 GHz | -37.90 dBm | -12.90 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.65842 GHz | -37.40 dBm | -12.40 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77653 GHz | -34.18 dBm | -9.18 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79965 GHz | -33.95 dBm | -8.95 dB |

Date: 7.APR.2017 14:32:23

### Highest Channel / QPSK

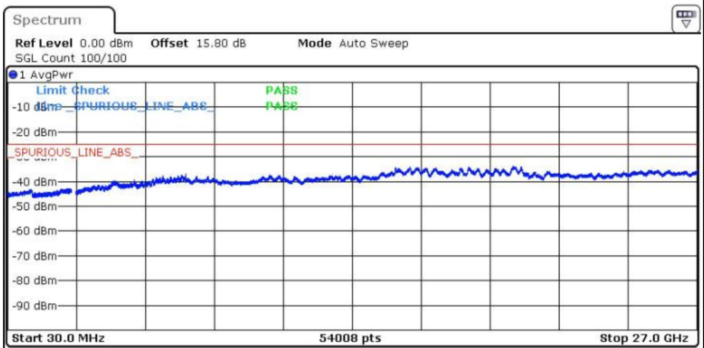



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 936.52847 MHz | -43.32 dBm | -18.32 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.50951 GHz | -42.91 dBm | -17.91 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98977 GHz | -42.42 dBm | -17.42 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.84777 GHz | -37.13 dBm | -12.13 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85661 GHz | -38.04 dBm | -13.04 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31171 GHz | -37.43 dBm | -12.43 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76703 GHz | -34.02 dBm | -9.02 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79465 GHz | -33.77 dBm | -8.77 dB |

Date: 7.APR.2017 14:37:56

### Highest Channel / 16QAM

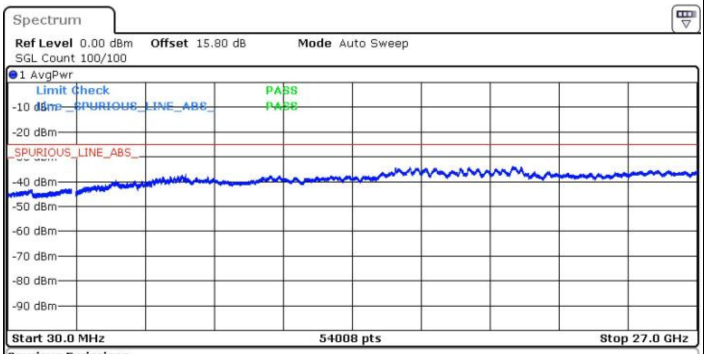



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 891.95305 MHz | -43.27 dBm | -18.27 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.30541 GHz | -42.80 dBm | -17.80 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99607 GHz | -42.50 dBm | -17.50 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99575 GHz | -37.08 dBm | -12.08 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86211 GHz | -37.96 dBm | -12.96 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.27422 GHz | -37.39 dBm | -12.39 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76653 GHz | -34.13 dBm | -9.13 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79515 GHz | -33.89 dBm | -8.89 dB |

Date: 7.APR.2017 14:38:51

| LTE Band 41 / 5MHz | |
|---|---|
| | Lowest Channel / 64QAM |

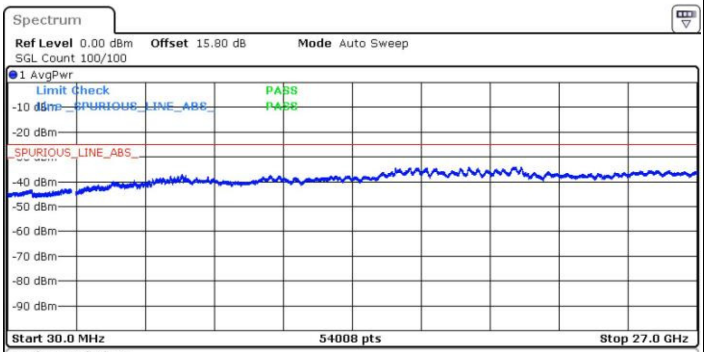



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 992.73227 MHz | -43.24 dBm | -18.24 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.32927 GHz | -42.92 dBm | -17.92 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99198 GHz | -42.61 dBm | -17.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99075 GHz | -36.98 dBm | -11.98 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85711 GHz | -38.09 dBm | -13.09 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.33021 GHz | -37.52 dBm | -12.52 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76953 GHz | -34.17 dBm | -9.17 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.78365 GHz | -33.78 dBm | -8.78 dB |

Date: 27.APR.2017 20:43:33

| | Middle Channel / 64QAM |
|---|---|




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 903.58142 MHz | -43.17 dBm | -18.17 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.24937 GHz | -42.87 dBm | -17.87 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99638 GHz | -42.75 dBm | -17.75 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85077 GHz | -37.11 dBm | -12.11 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86111 GHz | -37.99 dBm | -12.99 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.30421 GHz | -37.41 dBm | -12.41 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.20260 GHz | -34.33 dBm | -9.33 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79315 GHz | -33.99 dBm | -8.99 dB |

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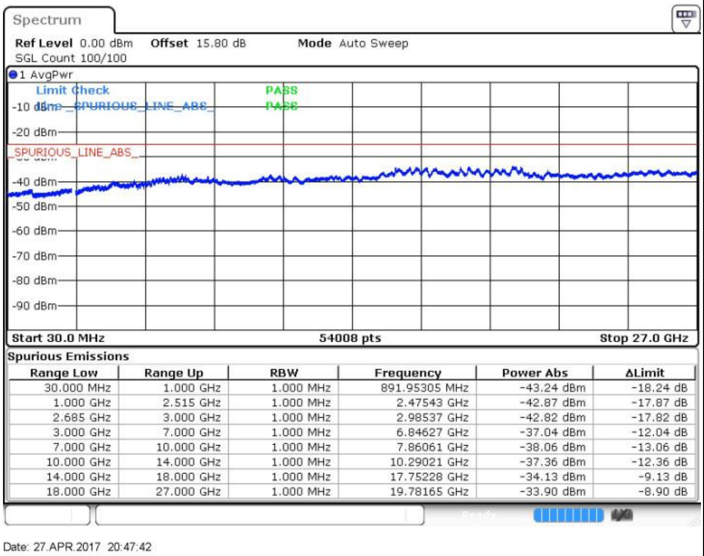
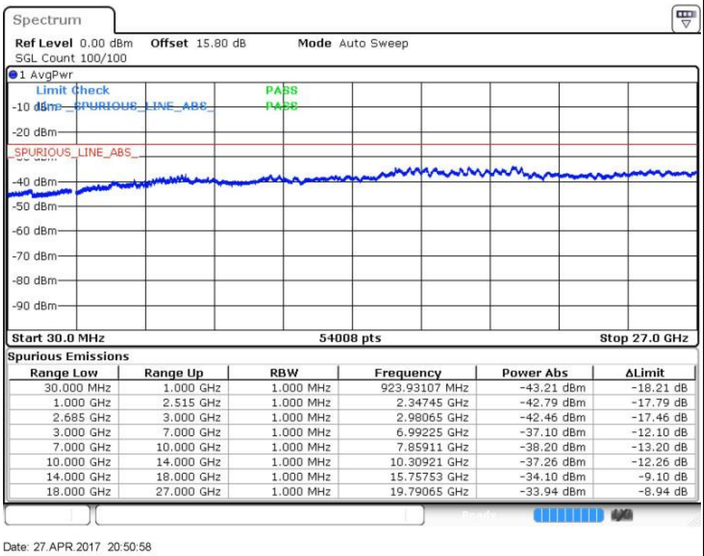
TEL : 886-3-327-3456
FAX : 886-3-328-4978

| LTE Band 41 / 5MHz | |
|---|---|
| | Highest Channel / 64QAM |




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 891.95305 MHz | -43.24 dBm | -18.24 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.47543 GHz | -42.87 dBm | -17.87 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98537 GHz | -42.82 dBm | -17.82 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.84627 GHz | -37.04 dBm | -12.04 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86061 GHz | -38.06 dBm | -13.06 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.29021 GHz | -37.36 dBm | -12.36 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 17.75228 GHz | -34.13 dBm | -9.13 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.78165 GHz | -33.90 dBm | -8.90 dB |

| LTE Band 41 / 10MHz | |
|---|---|
| | Lowest Channel / 64QAM |

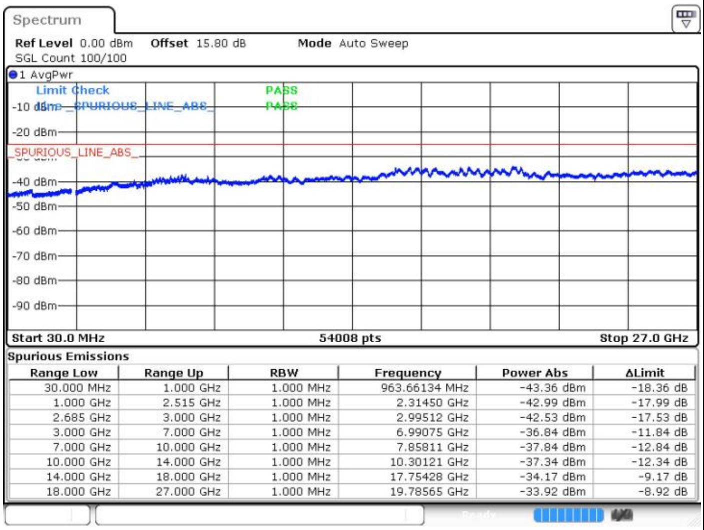



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 923.93107 MHz | -43.21 dBm | -18.21 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.34745 GHz | -42.79 dBm | -17.79 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98065 GHz | -42.46 dBm | -17.46 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99225 GHz | -37.10 dBm | -12.10 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85911 GHz | -38.20 dBm | -13.20 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.30921 GHz | -37.26 dBm | -12.26 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.75753 GHz | -34.10 dBm | -9.10 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79065 GHz | -33.94 dBm | -8.94 dB |


TEL : 886-3-327-3456
FAX : 886-3-328-4978

## LTE Band 41 / 10MHz

### Middle Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 963.66134 MHz | -43.36 dBm | -18.36 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.31450 GHz | -42.99 dBm | -17.99 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99512 GHz | -42.53 dBm | -17.53 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99075 GHz | -36.84 dBm | -11.84 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85811 GHz | -37.84 dBm | -12.84 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.30121 GHz | -37.34 dBm | -12.34 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 17.75428 GHz | -34.17 dBm | -9.17 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.78565 GHz | -33.92 dBm | -8.92 dB |

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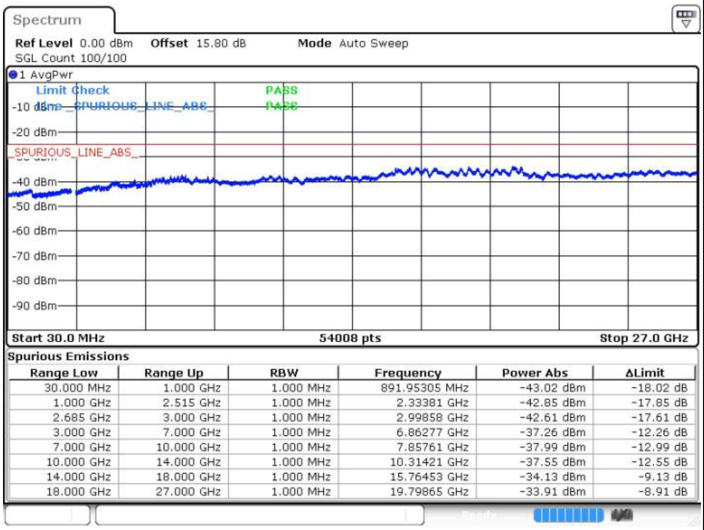
### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 891.95305 MHz | -43.02 dBm | -18.02 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.33381 GHz | -42.85 dBm | -17.85 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99858 GHz | -42.61 dBm | -17.61 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.86277 GHz | -37.26 dBm | -12.26 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85761 GHz | -37.99 dBm | -12.99 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31421 GHz | -37.55 dBm | -12.55 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76453 GHz | -34.13 dBm | -9.13 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79865 GHz | -33.91 dBm | -8.91 dB |

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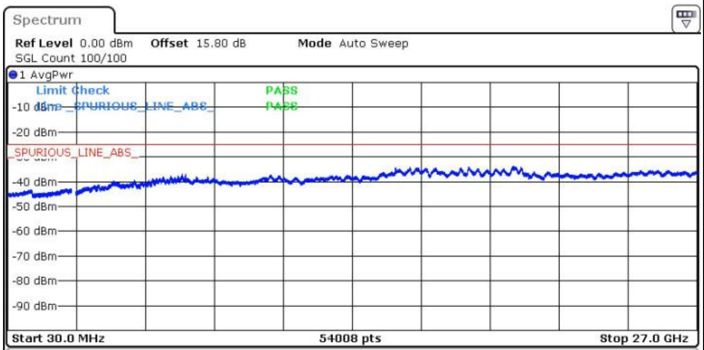
| LTE Band 41 / 15MHz | |
|---|---|
| | Lowest Channel / 64QAM |




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 860.94406 MHz | -43.14 dBm | -18.14 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.50724 GHz | -42.79 dBm | -17.79 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98851 GHz | -42.65 dBm | -17.65 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99125 GHz | -37.13 dBm | -12.13 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.42018 GHz | -38.12 dBm | -13.12 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.32821 GHz | -37.27 dBm | -12.27 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76503 GHz | -34.17 dBm | -9.17 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79065 GHz | -33.82 dBm | -8.82 dB |

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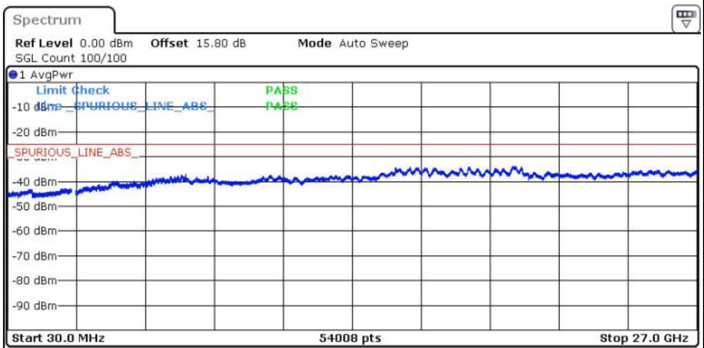
| | Middle Channel / 64QAM |
|---|---|




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 967.53746 MHz | -43.27 dBm | -18.27 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.44552 GHz | -42.80 dBm | -17.80 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.98065 GHz | -42.55 dBm | -17.55 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99075 GHz | -37.07 dBm | -12.07 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.87010 GHz | -38.15 dBm | -13.15 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31571 GHz | -37.49 dBm | -12.49 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77153 GHz | -34.05 dBm | -9.05 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79165 GHz | -33.80 dBm | -8.80 dB |

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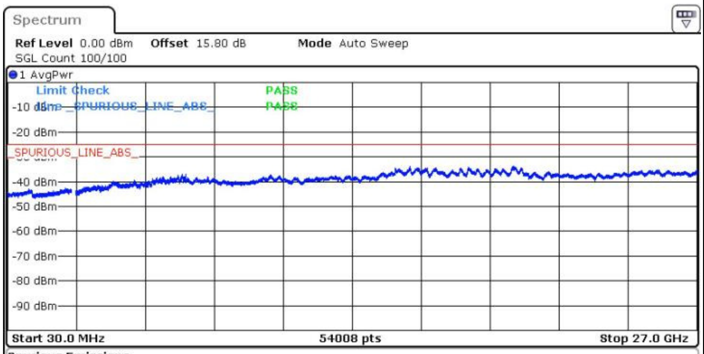
## LTE Band 41 / 15MHz

### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 865.78921 MHz | -43.13 dBm | -18.13 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.27853 GHz | -42.78 dBm | -17.78 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99795 GHz | -42.55 dBm | -17.55 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85327 GHz | -37.12 dBm | -12.12 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86361 GHz | -38.04 dBm | -13.04 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.31871 GHz | -37.29 dBm | -12.29 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76403 GHz | -33.94 dBm | -8.94 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.78715 GHz | -33.80 dBm | -8.80 dB |

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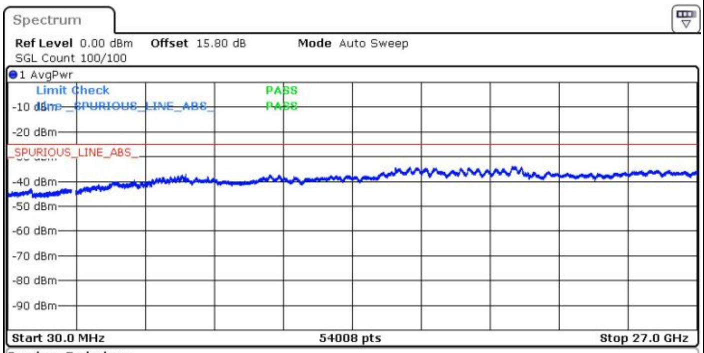
## LTE Band 41 / 20MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 955.90909 MHz | -43.10 dBm | -18.10 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.30163 GHz | -42.79 dBm | -17.79 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99984 GHz | -42.59 dBm | -17.59 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98875 GHz | -37.12 dBm | -12.12 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.85911 GHz | -38.04 dBm | -13.04 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.30721 GHz | -37.29 dBm | -12.29 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.77153 GHz | -34.12 dBm | -9.12 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.87315 GHz | -33.93 dBm | -8.93 dB |

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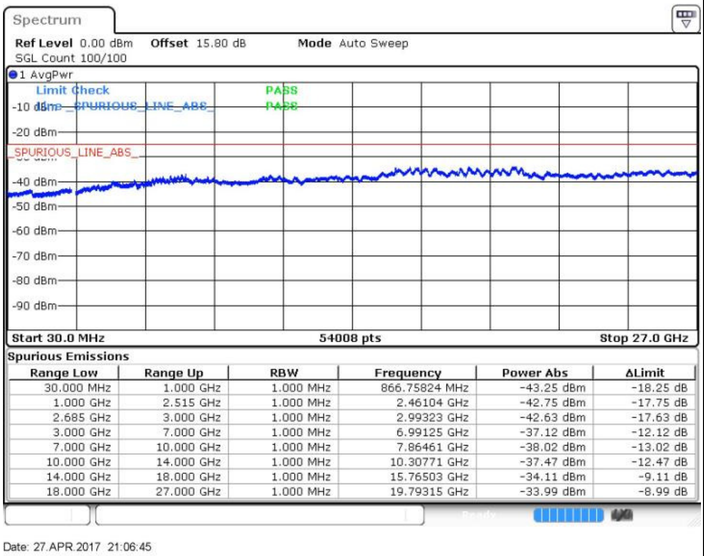
| LTE Band 41 / 20MHz | |
|---|---|
| | Middle Channel / 64QAM |




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 866.75824 MHz | -43.25 dBm | -18.25 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.46104 GHz | -42.75 dBm | -17.75 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99323 GHz | -42.63 dBm | -17.63 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99125 GHz | -37.12 dBm | -12.12 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86461 GHz | -38.02 dBm | -13.02 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.30771 GHz | -37.47 dBm | -12.47 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76503 GHz | -34.11 dBm | -9.11 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.79315 GHz | -33.99 dBm | -8.99 dB |

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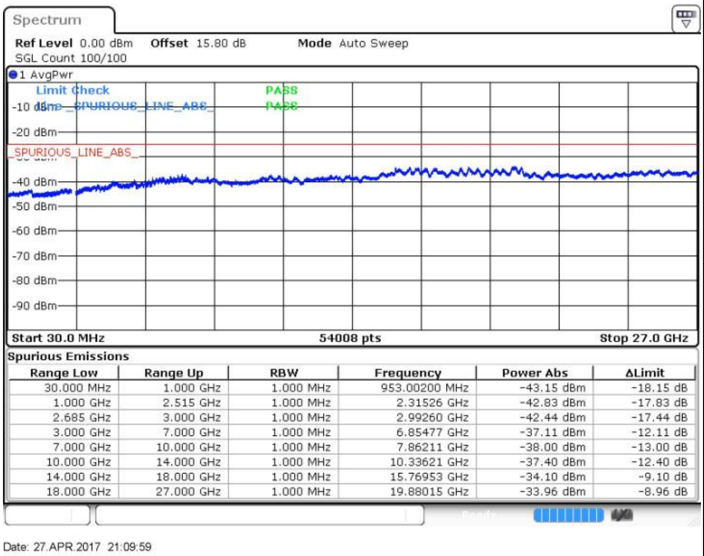
| | Highest Channel / 64QAM |
|---|---|




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 953.00200 MHz | -43.15 dBm | -18.15 dB |
| 1.000 GHz | 2.515 GHz | 1.000 MHz | 2.31526 GHz | -42.83 dBm | -17.83 dB |
| 2.685 GHz | 3.000 GHz | 1.000 MHz | 2.99260 GHz | -42.44 dBm | -17.44 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.85477 GHz | -37.11 dBm | -12.11 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.86211 GHz | -38.00 dBm | -13.00 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 10.33621 GHz | -37.40 dBm | -12.40 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76953 GHz | -34.10 dBm | -9.10 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.88015 GHz | -33.96 dBm | -8.96 dB |

Date: 27.APR.2017 21:09:59


TEL : 886-3-327-3456
FAX : 886-3-328-4978

# Frequency Stability

| Test Conditions | | LTE Band 41 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0114 | PASS |
| 40 | Normal Voltage | 0.0113 | |
| 30 | Normal Voltage | 0.0007 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0006 | |
| 0 | Normal Voltage | 0.0004 | |
| -10 | Normal Voltage | 0.0002 | |
| -20 | Normal Voltage | 0.0114 | |
| -30 | Normal Voltage | 0.0115 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0008 | |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

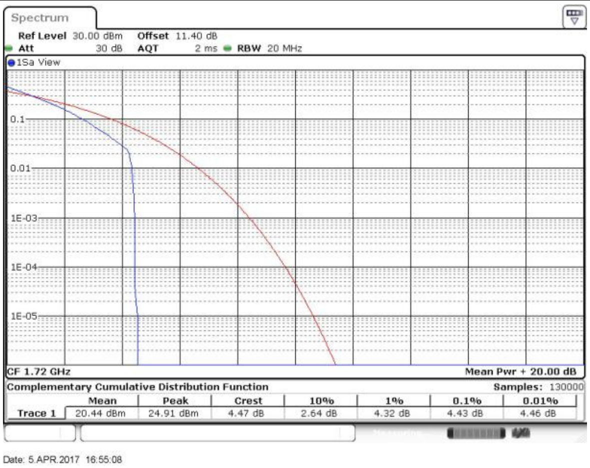
# LTE Band 66

## Peak-to-Average Ratio

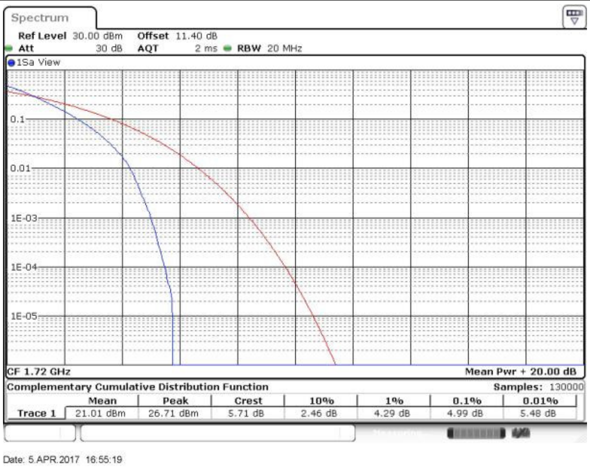
| Mode | LTE Band 66 / 20MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 4.43 | 4.99 | 5.07 | 5.94 | PASS |
| Middle CH | 4.43 | 5.22 | 5.22 | 6.12 | |
| Highest CH | 4.7 | 4.87 | 5.54 | 5.8 | |
| Mod. | - | | 64QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | - | - | 5.1 | 6.03 | PASS |
| Middle CH | - | - | 5.19 | 6.29 | |
| Highest CH | - | - | 5.33 | 5.97 | |

## LTE Band 66 / 20MHz / QPSK

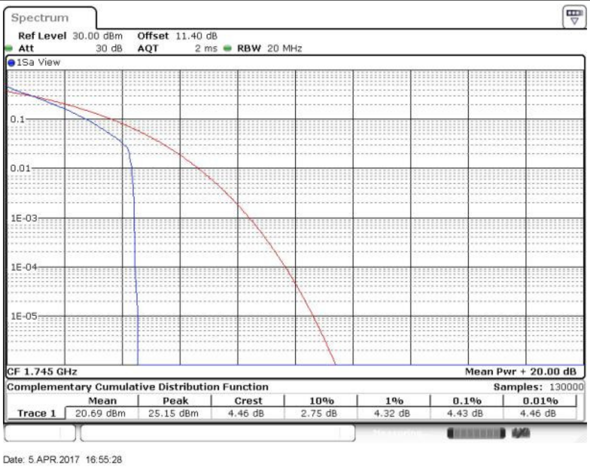
### Lowest Channel / 1RB



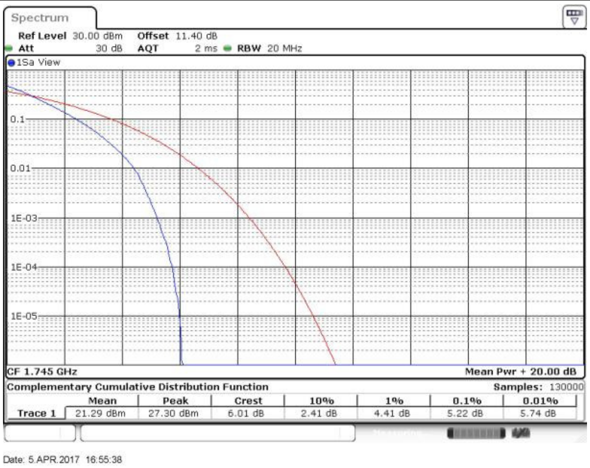

### Lowest Channel / Full RB



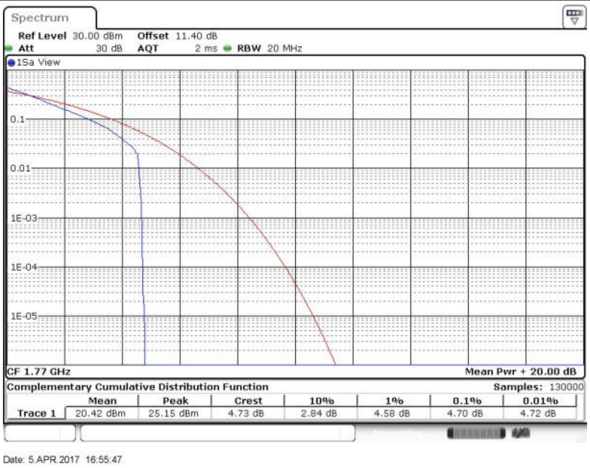

### Middle Channel / 1RB



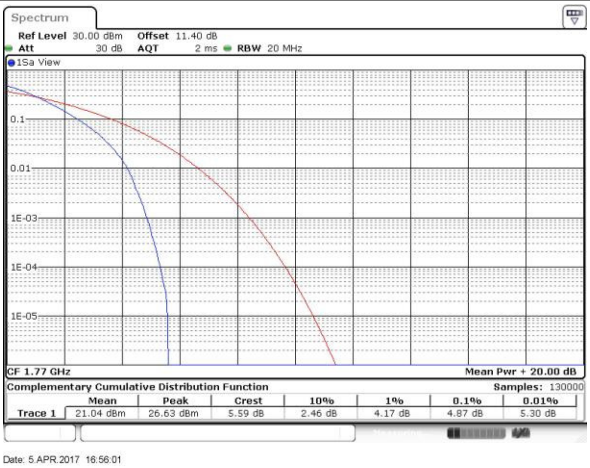

### Middle Channel / Full RB




### Highest Channel / 1RB

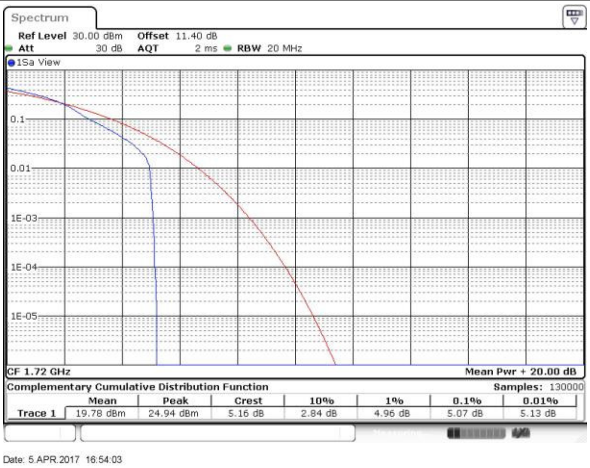



### Highest Channel / Full RB

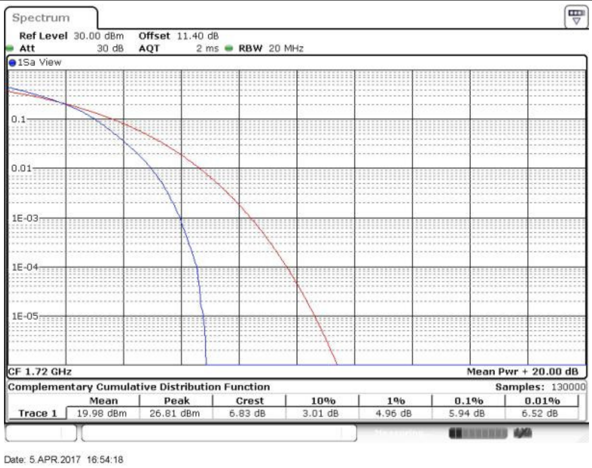


## LTE Band 66 / 20MHz / 16QAM

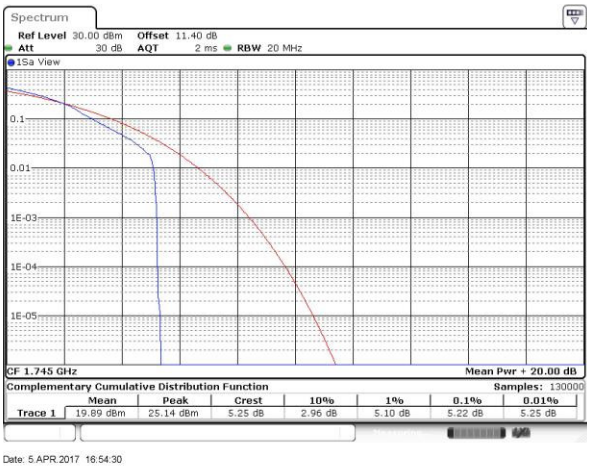
### Lowest Channel / 1RB



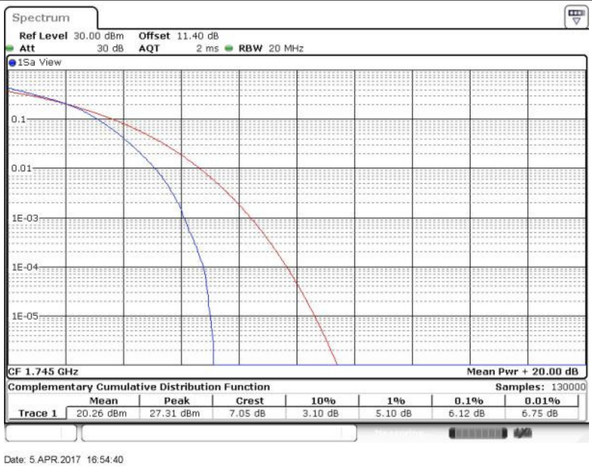

### Lowest Channel / Full RB



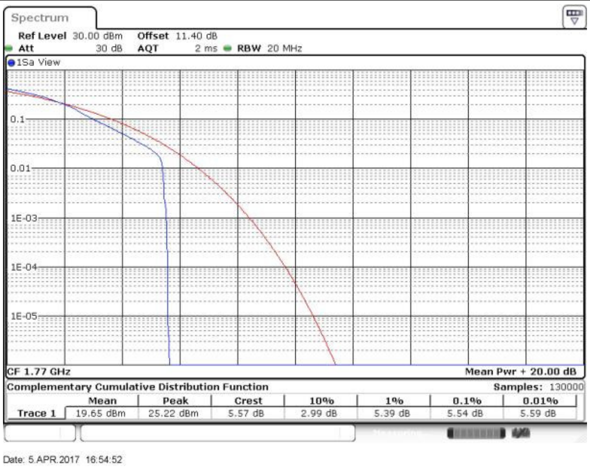

### Middle Channel / 1RB



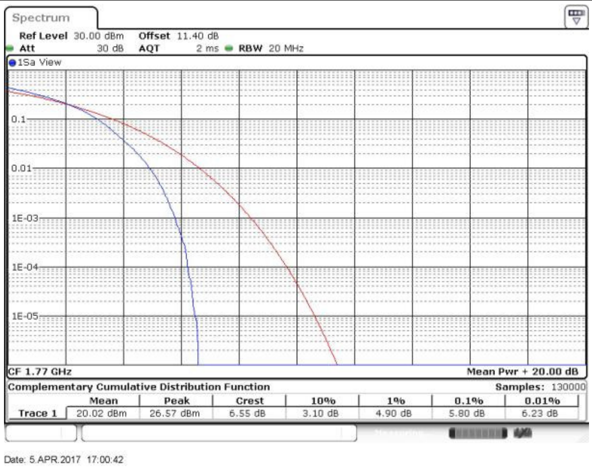

### Middle Channel / Full RB




### Highest Channel / 1RB




### Highest Channel / Full RB

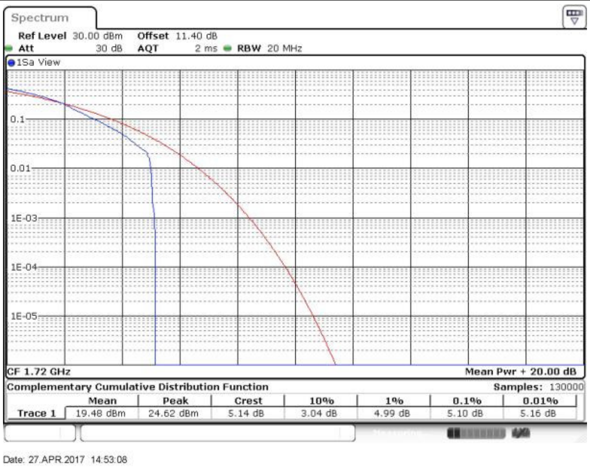




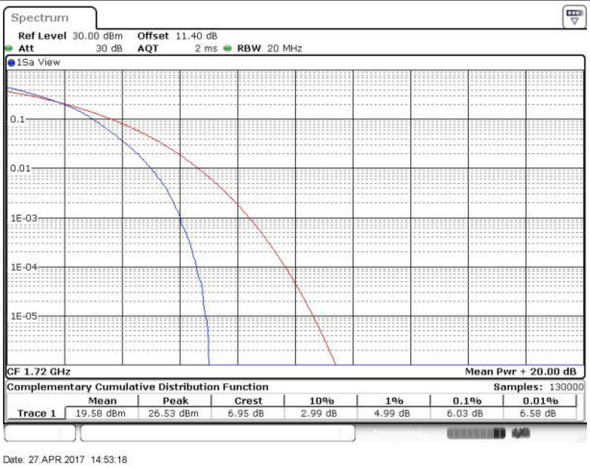
TEL : 886-3-327-3456
FAX : 886-3-328-4978

## LTE Band 66 / 20MHz / 64QAM

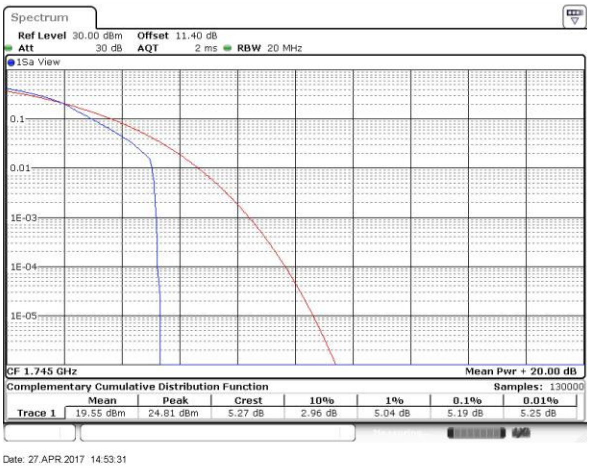
### Lowest Channel / 1RB



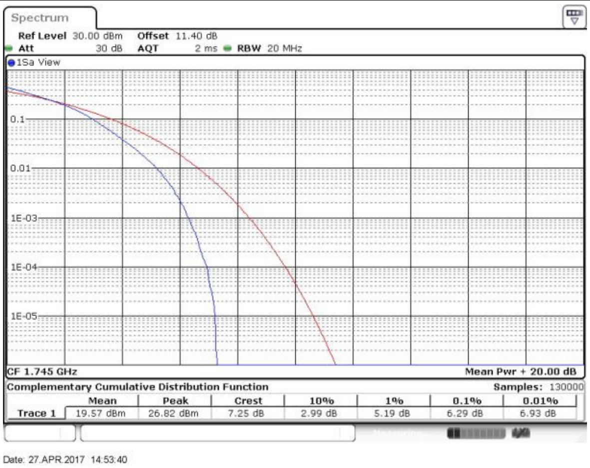

### Lowest Channel / Full RB



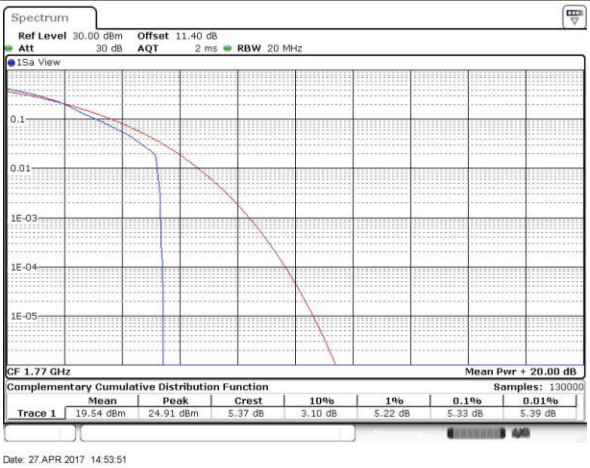

### Middle Channel / 1RB



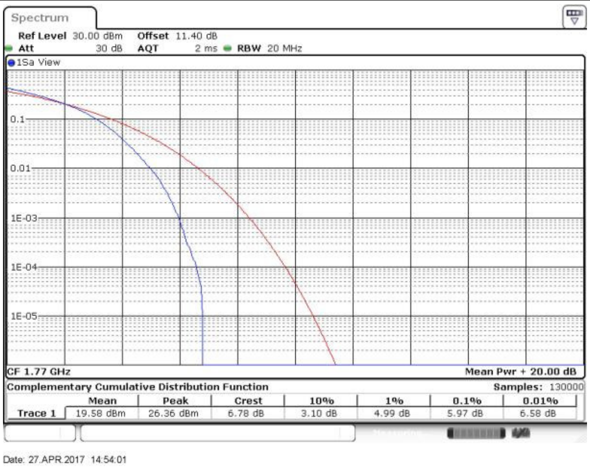

### Middle Channel / Full RB




### Highest Channel / 1RB




### Highest Channel / Full RB





TEL : 886-3-327-3456
FAX : 886-3-328-4978

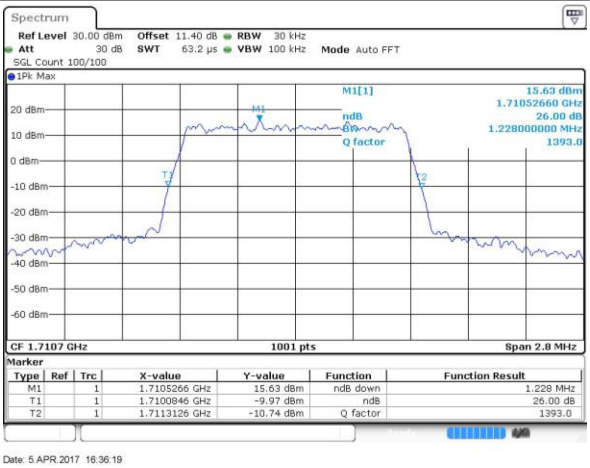
# 26dB Bandwidth

| Mode | LTE Band 66 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.23 | 1.23 | 3.00 | 3.01 | 4.97 | 4.86 | 9.71 | 9.73 | 14.42 | 14.48 | 20.18 | 20.14 |
| Middle CH | 1.24 | 1.22 | 2.97 | 3.05 | 4.93 | 4.86 | 9.75 | 9.79 | 14.57 | 14.30 | 20.26 | 20.38 |
| Highest CH | 1.23 | 1.23 | 2.99 | 2.96 | 4.90 | 4.89 | 9.73 | 9.77 | 14.45 | 14.42 | 20.22 | 20.30 |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | - | 64QAM | - | 64QAM | - | 64QAM | - | 64QAM | - | 64QAM | - | 64QAM |
| Lowest CH | - | 1.23 | - | 3.02 | - | 4.91 | - | 9.73 | - | 14.63 | - | 20.18 |
| Middle CH | - | 1.23 | - | 3.04 | - | 4.88 | - | 9.87 | - | 14.36 | - | 20.26 |
| Highest CH | - | 1.24 | - | 3.03 | - | 4.85 | - | 9.79 | - | 14.30 | - | 20.10 |

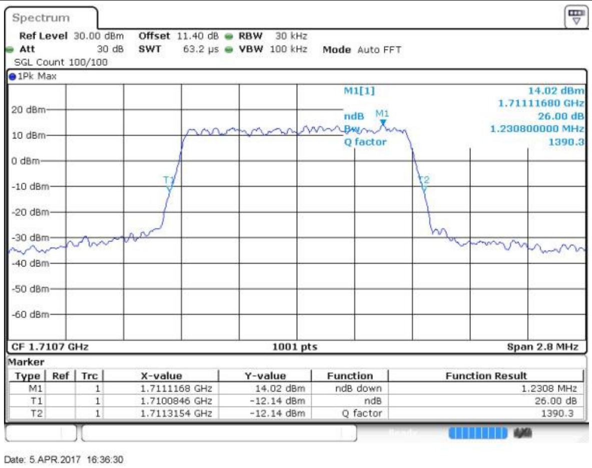

TEL : 886-3-327-3456
FAX : 886-3-328-4978

## LTE Band 66

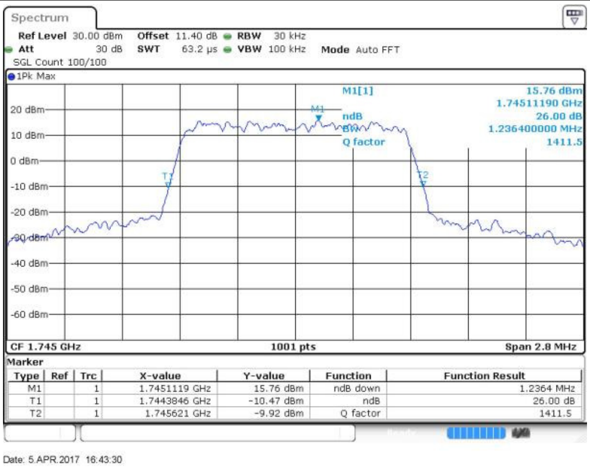
### Lowest Channel / 1.4MHz / QPSK



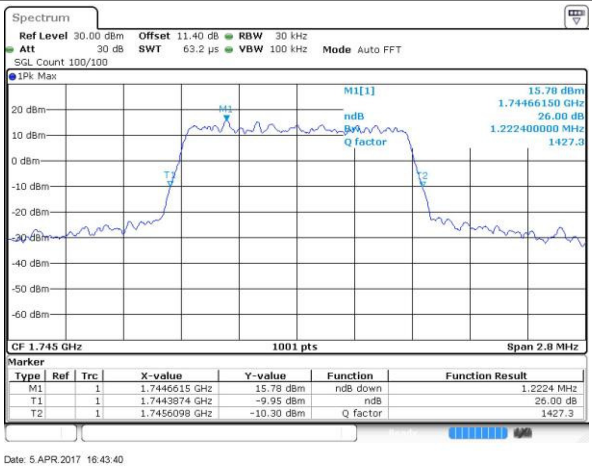

### Lowest Channel / 1.4MHz / 16QAM



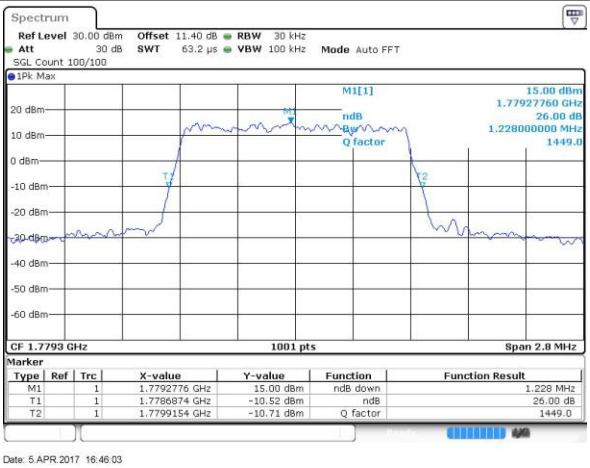

### Middle Channel / 1.4MHz / QPSK



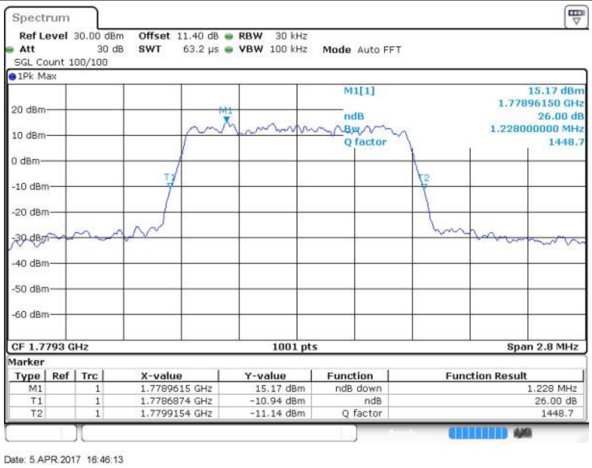

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

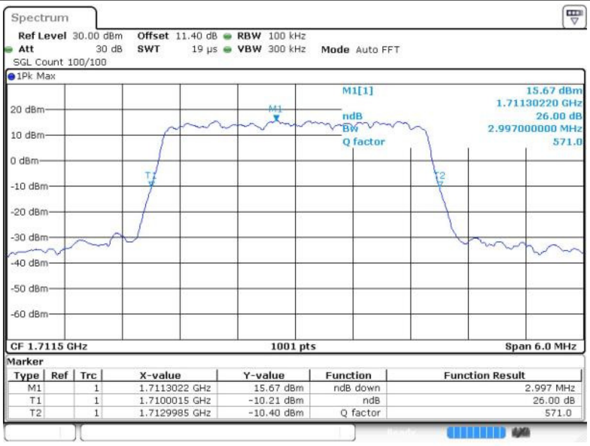



### Highest Channel / 1.4MHz / 16QAM



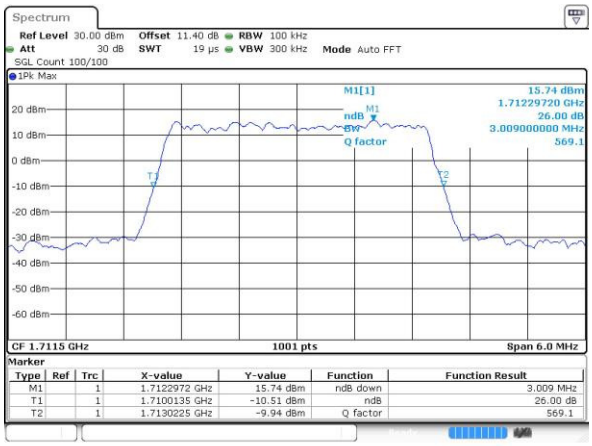
## LTE Band 66

### Lowest Channel / 3MHz / QPSK



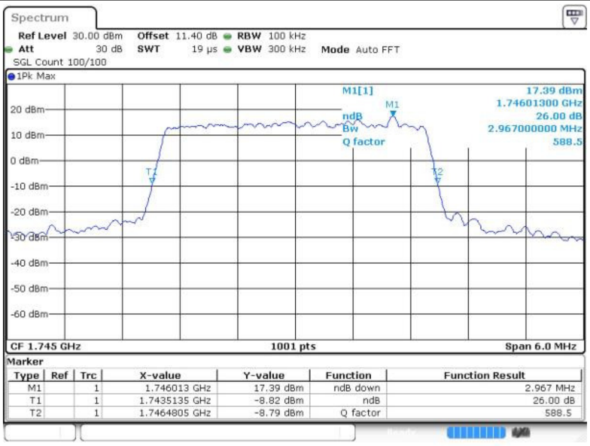

Date: 5.APR.2017 14:17:57

### Lowest Channel / 3MHz / 16QAM



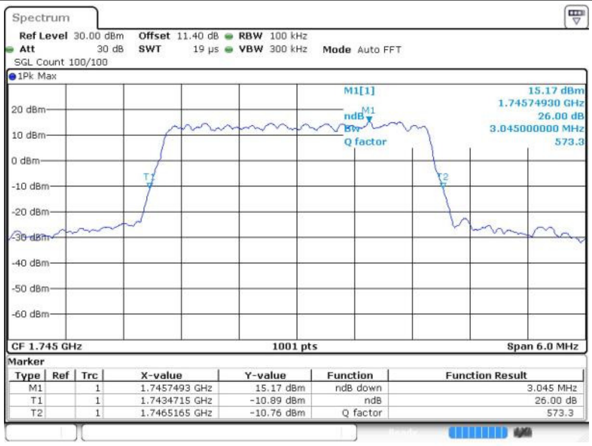

Date: 5.APR.2017 14:18:07

### Middle Channel / 3MHz / QPSK



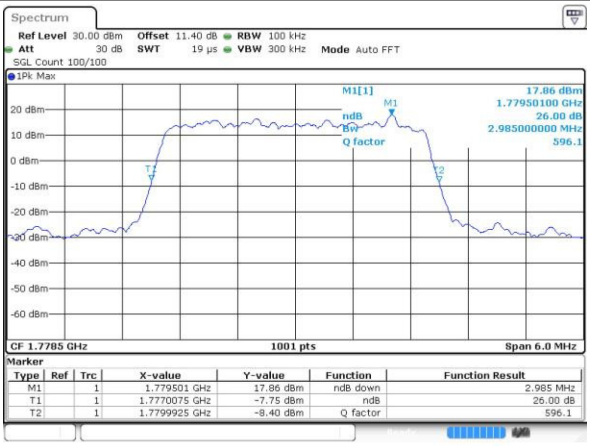

Date: 5.APR.2017 14:25:06

### Middle Channel /3MHz / 16QAM



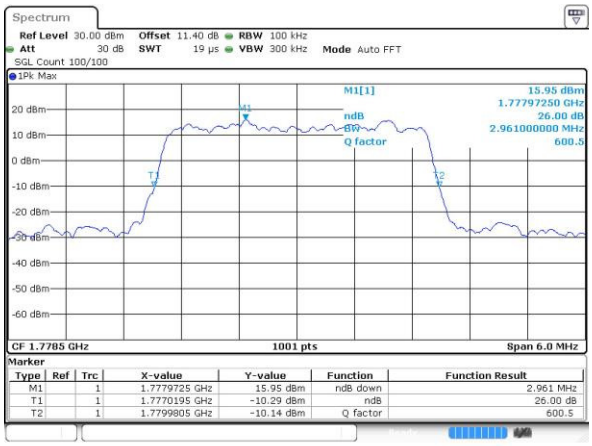

Date: 5.APR.2017 14:25:16

### Highest Channel /3MHz / QPSK




Date: 5.APR.2017 14:27:39

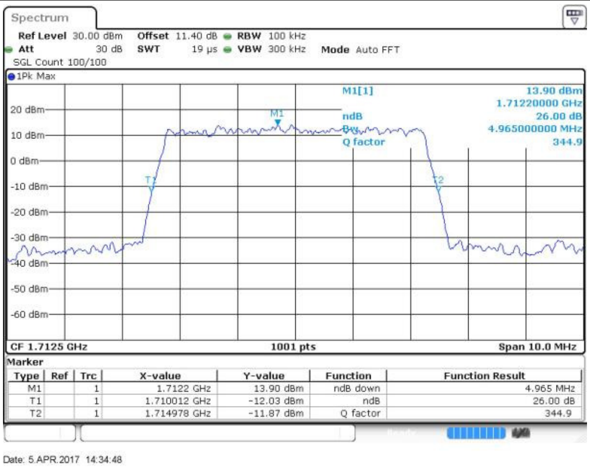
### Highest Channel /3MHz / 16QAM



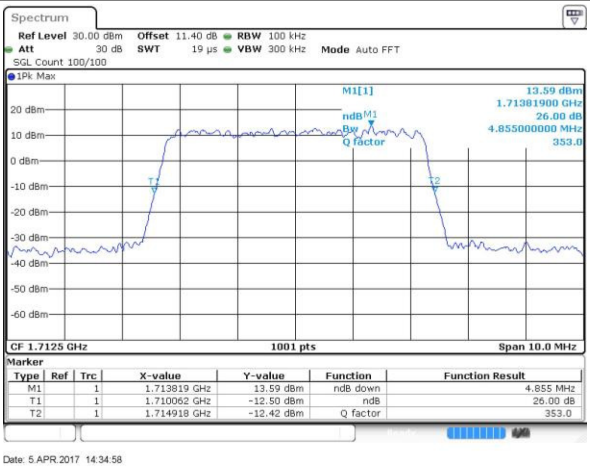

Date: 5.APR.2017 14:27:50

## LTE Band 66

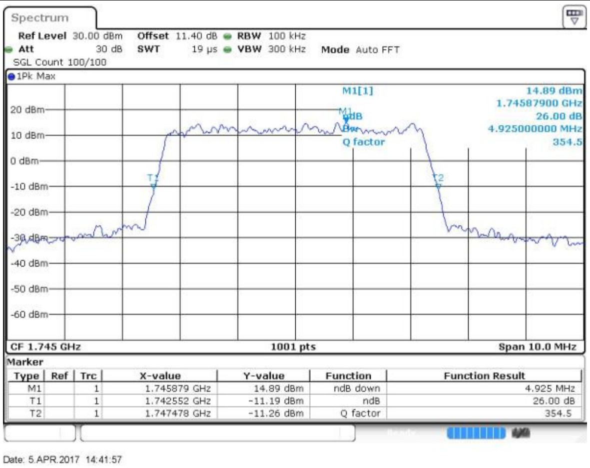
### Lowest Channel / 5MHz / QPSK



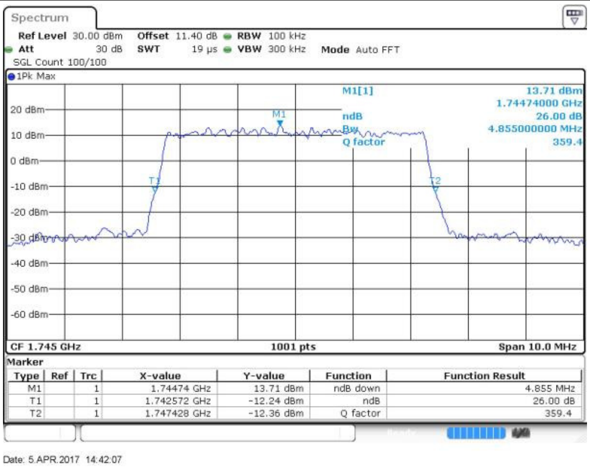

### Lowest Channel / 5MHz / 16QAM



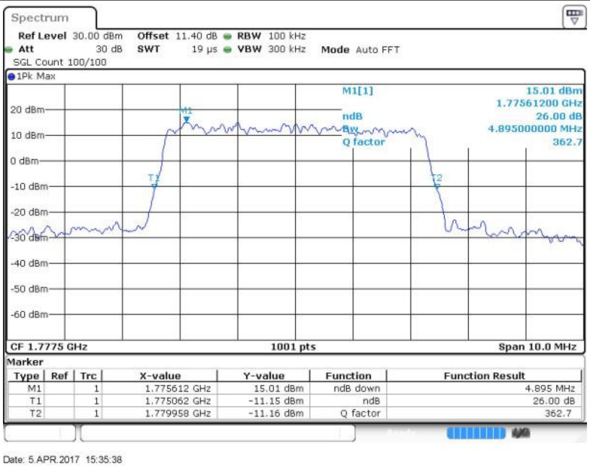

### Middle Channel / 5MHz / QPSK



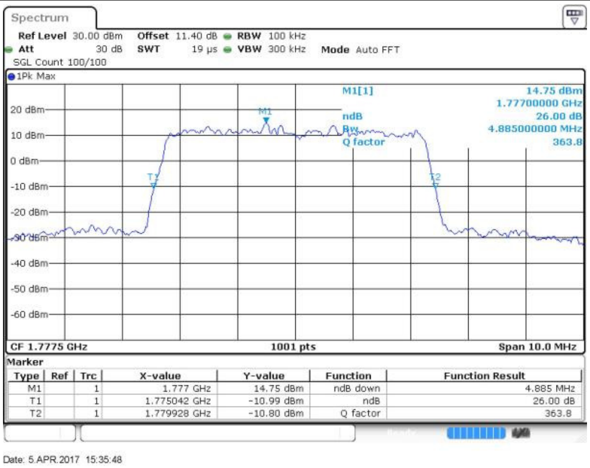

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

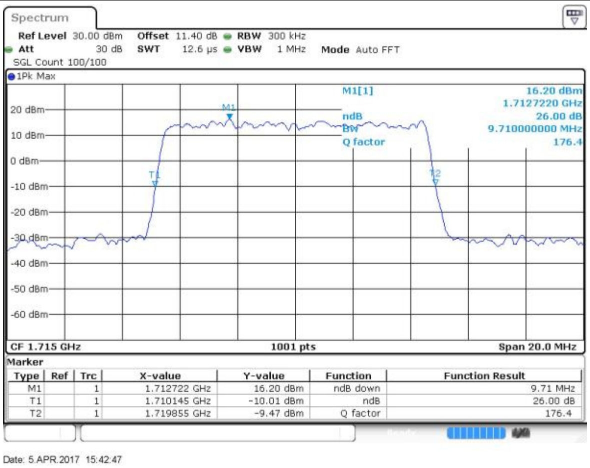



### Highest Channel / 5MHz / 16QAM

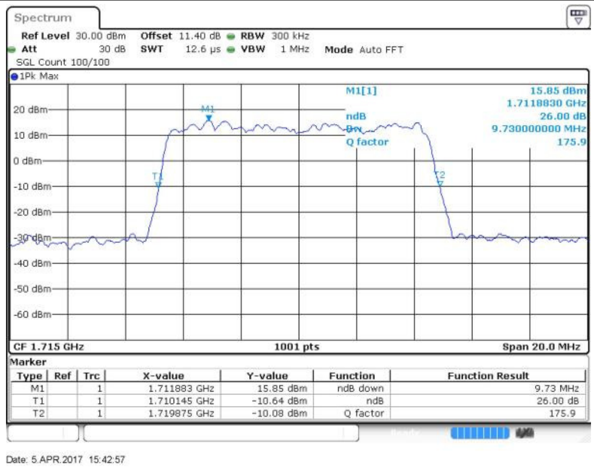


## LTE Band 66

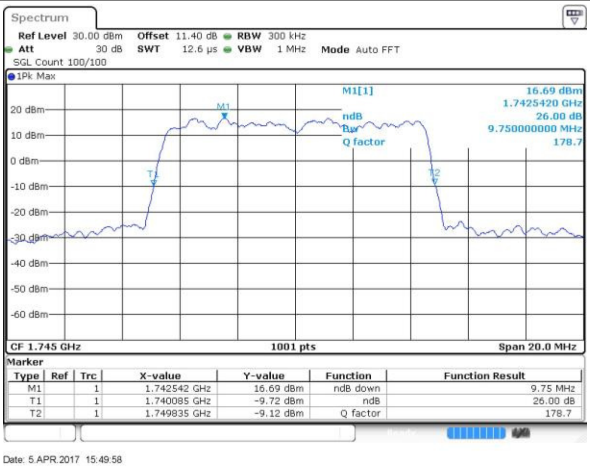
### Lowest Channel / 10MHz / QPSK



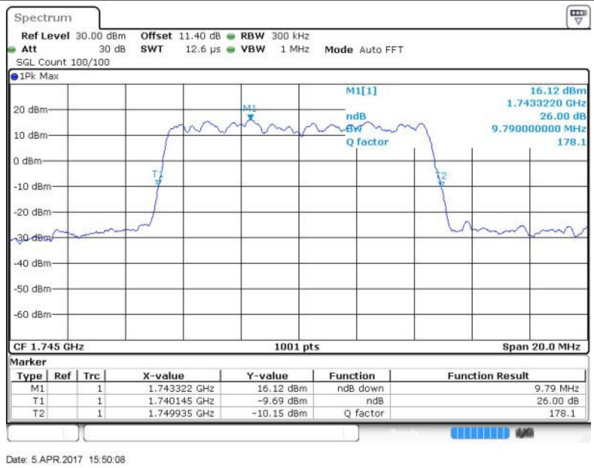

### Lowest Channel / 10MHz / 16QAM



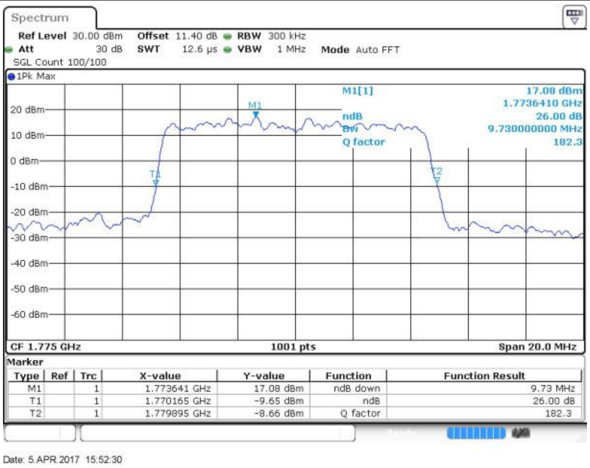

### Middle Channel / 10MHz / QPSK




### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK




### Highest Channel / 10MHz / 16QAM