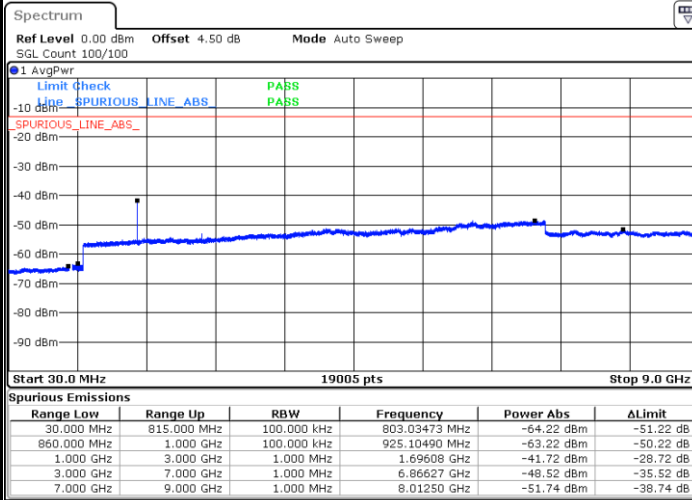




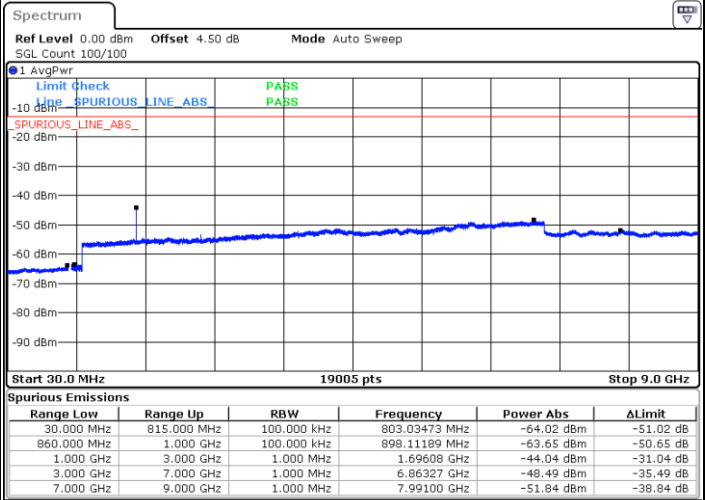
## LTE Band 5 / 1.4MHz

## Highest Channel / QPSK



Date: 2 JUL 2017 21:47:12

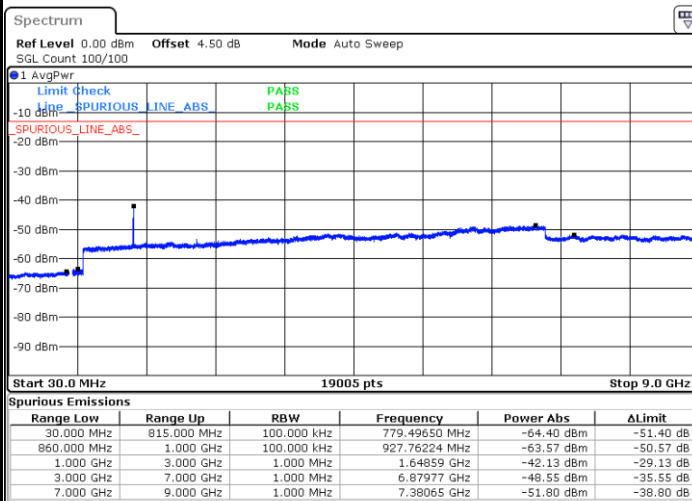
## Highest Channel / 16QAM



Date: 2 JUL 2017 21:48:06

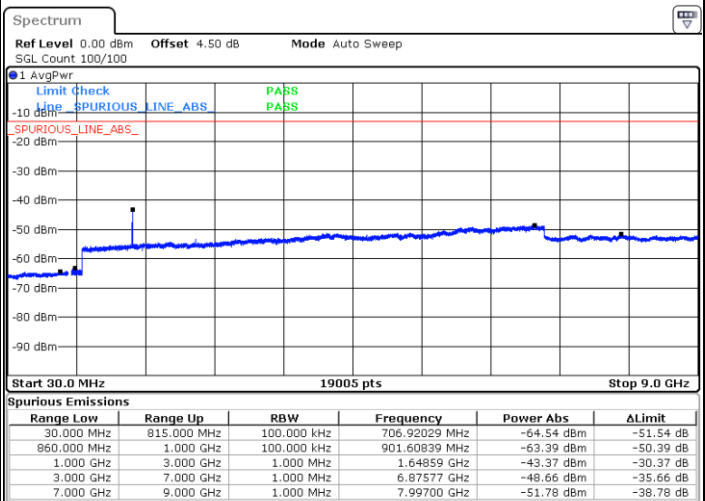
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



Date: 2 JUL 2017 21:56:10

## Lowest Channel / 16QAM

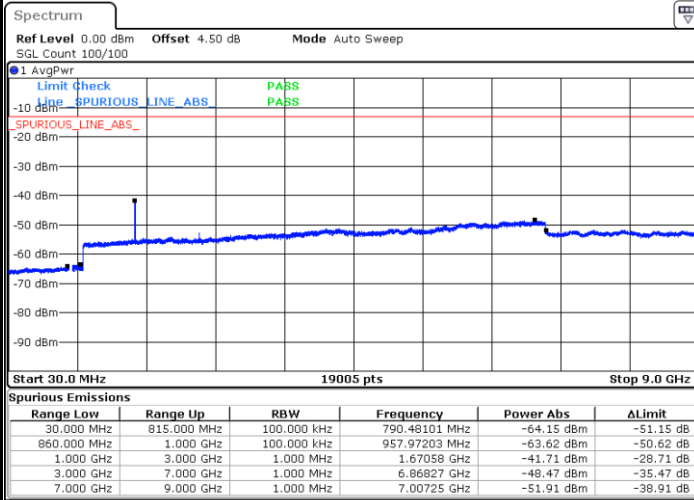


Date: 2 JUL 2017 21:57:04



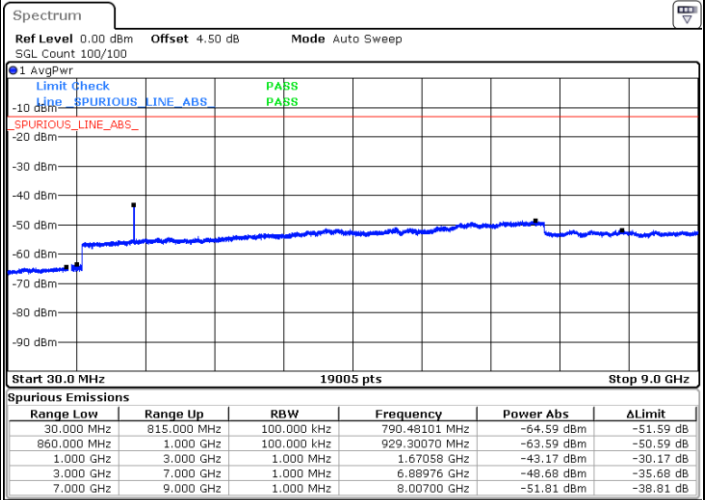
## LTE Band 5 / 3MHz

## Middle Channel / QPSK



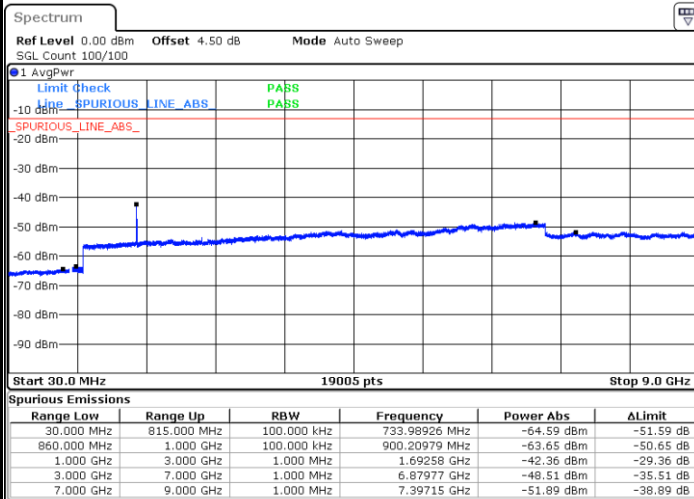
Date: 2 JUL 2017 21:58:38

## Middle Channel / 16QAM



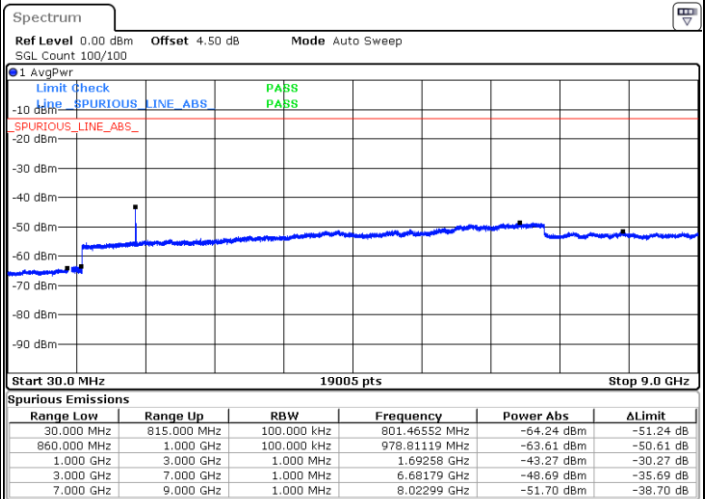
Date: 2 JUL 2017 21:59:33

## Highest Channel / QPSK



Date: 2 JUL 2017 22:07:36

## Highest Channel / 16QAM

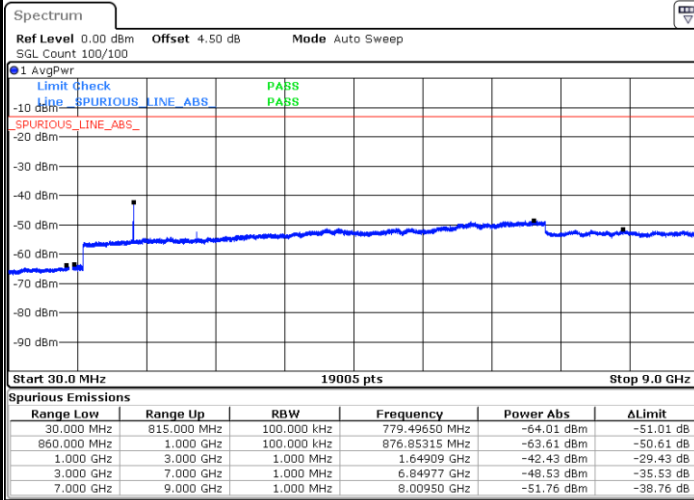


Date: 2 JUL 2017 22:08:31



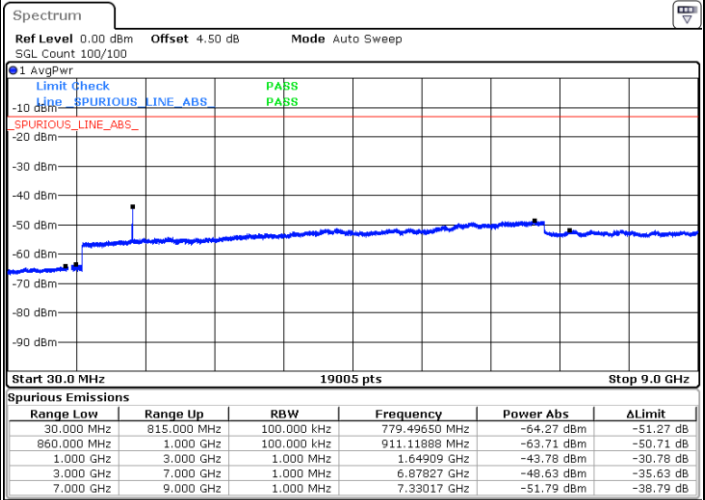
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



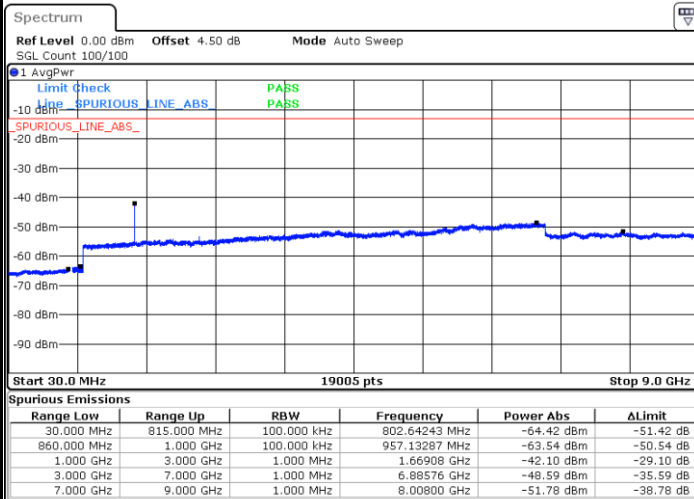
Date: 2 JUL 2017 22:16:35

## Lowest Channel / 16QAM



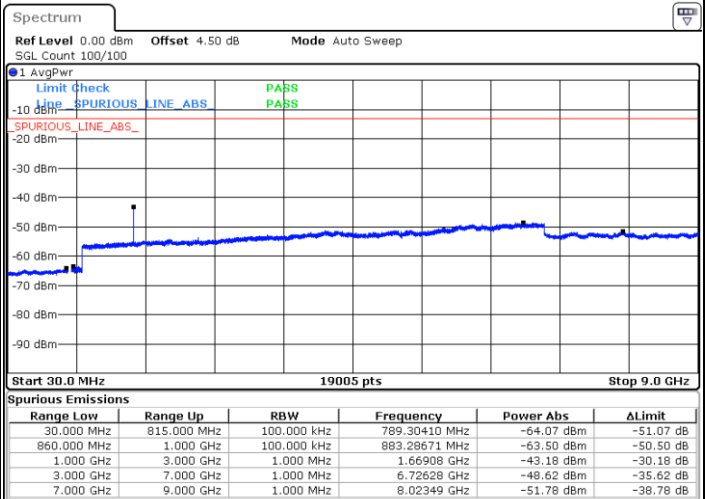
Date: 2 JUL 2017 22:17:29

## Middle Channel / QPSK



Date: 2 JUL 2017 22:19:03

## Middle Channel / 16QAM

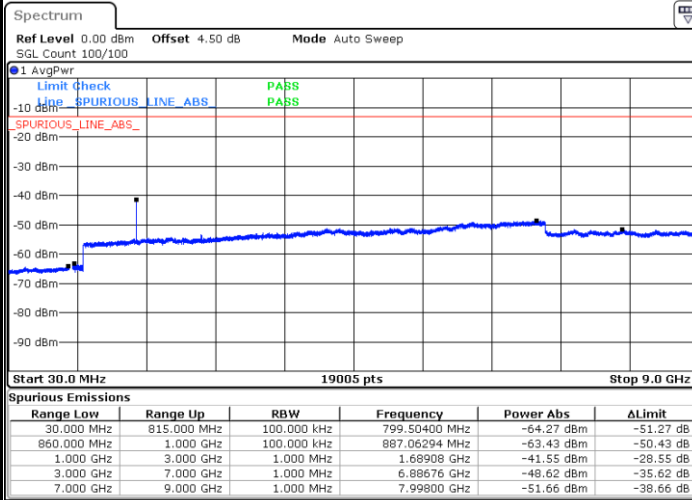


Date: 2 JUL 2017 22:19:57



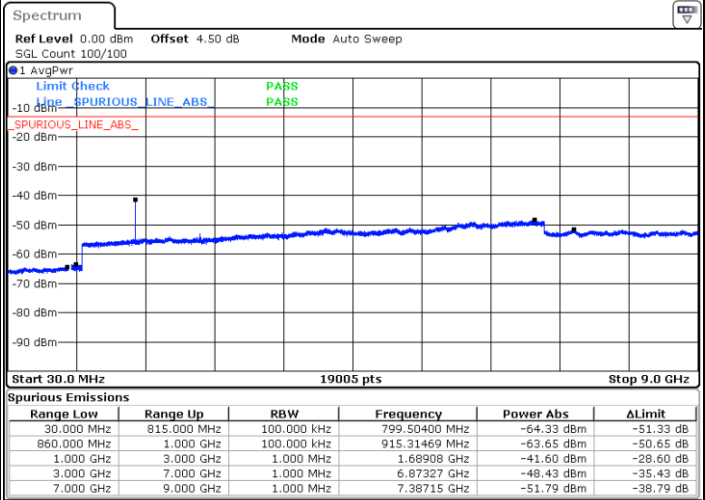
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 2 JUL 2017 22:28:01

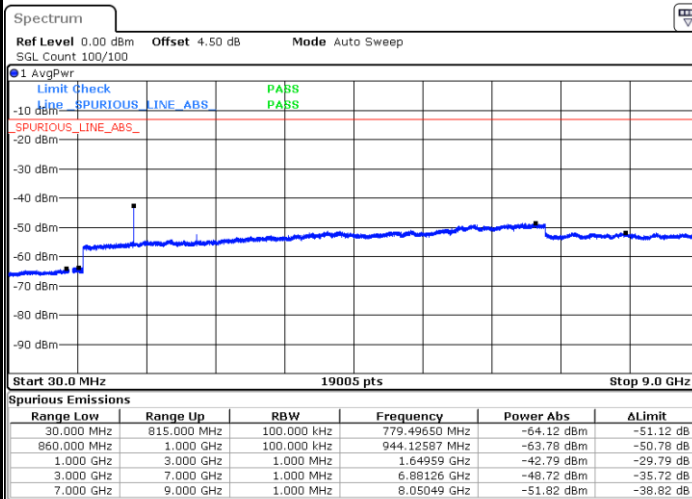
## Highest Channel / 16QAM



Date: 2 JUL 2017 22:28:56

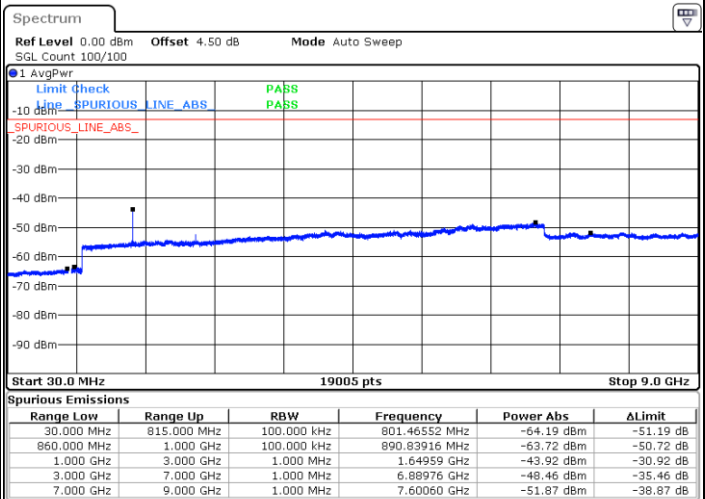
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 2 JUL 2017 22:36:59

## Lowest Channel / 16QAM

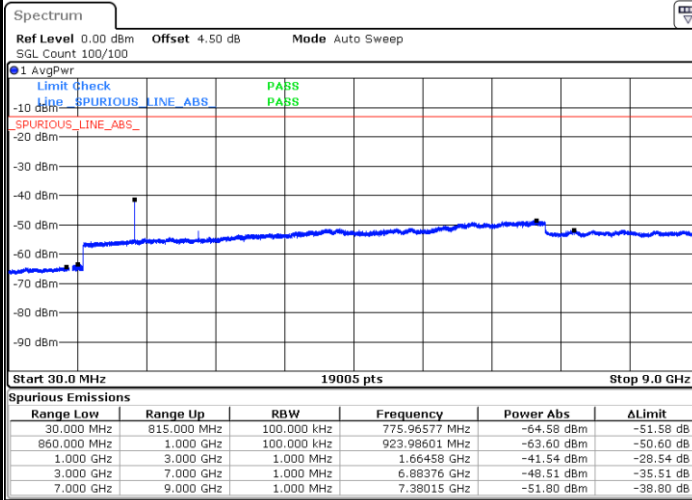


Date: 2 JUL 2017 22:37:54



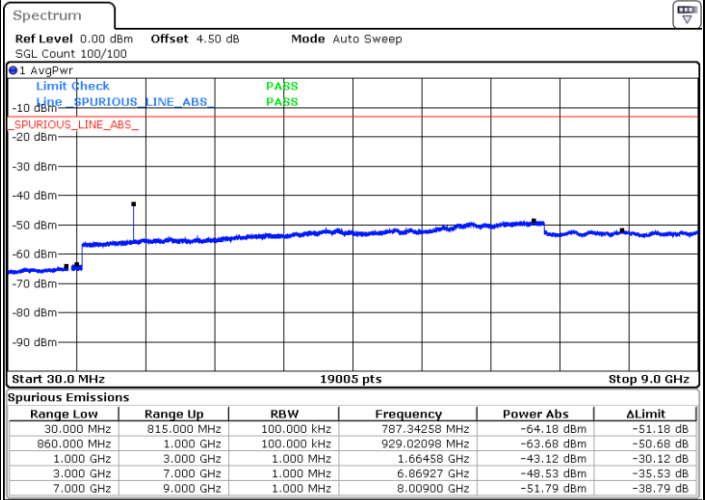
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



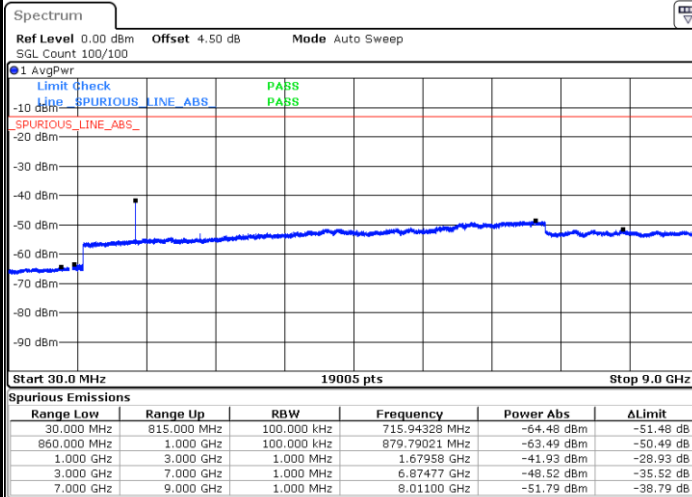
Date: 2 JUL 2017 22:39:28

## Middle Channel / 16QAM



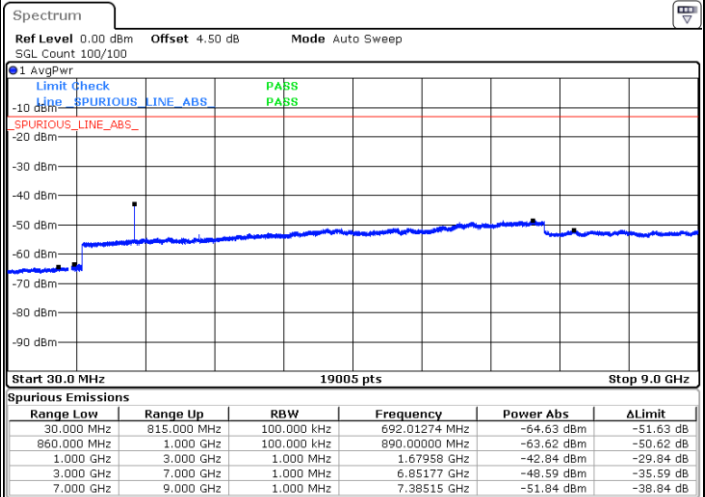
Date: 2 JUL 2017 22:40:22

## Highest Channel / QPSK



Date: 2 JUL 2017 22:48:26

## Highest Channel / 16QAM

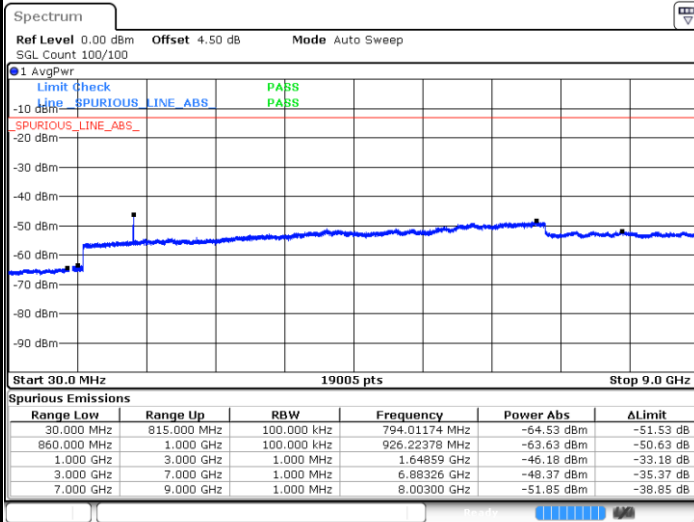


Date: 2 JUL 2017 22:49:20



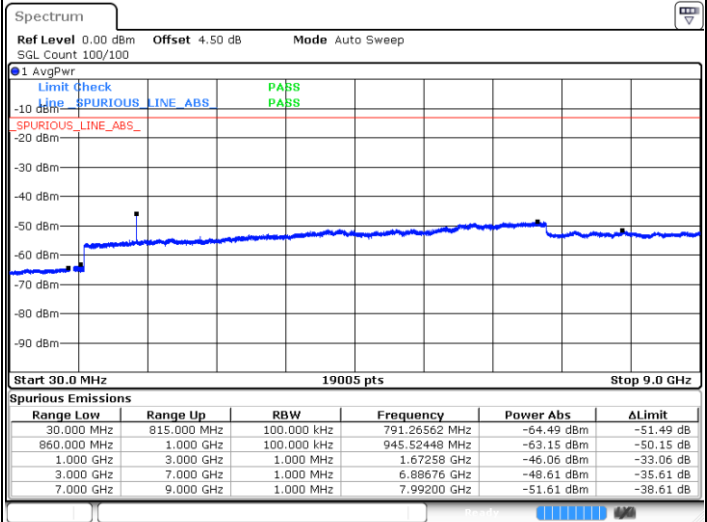
## LTE Band 5 / 1.4MHz

## Lowest Channel / 64QAM



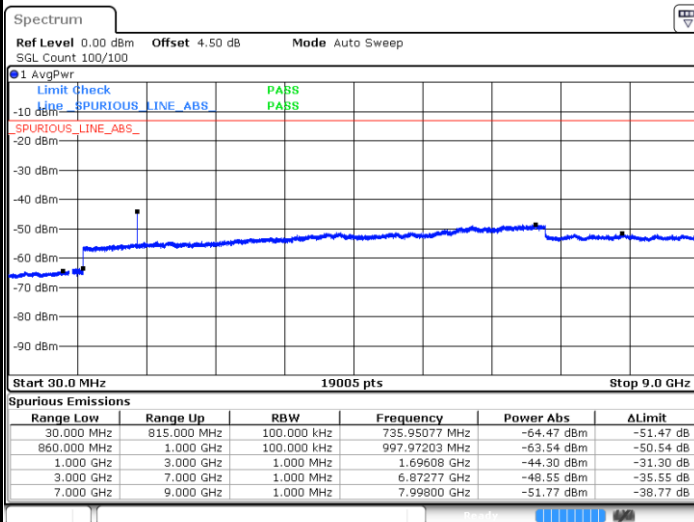
Date: 2 JUL 2017 23:03:03

## Middle Channel / 64QAM



Date: 2 JUL 2017 23:04:17

## Highest Channel / 64QAM

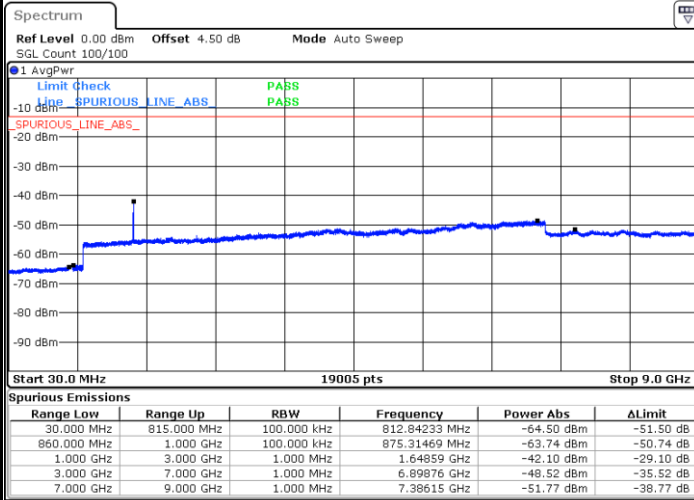


Date: 2 JUL 2017 23:08:46



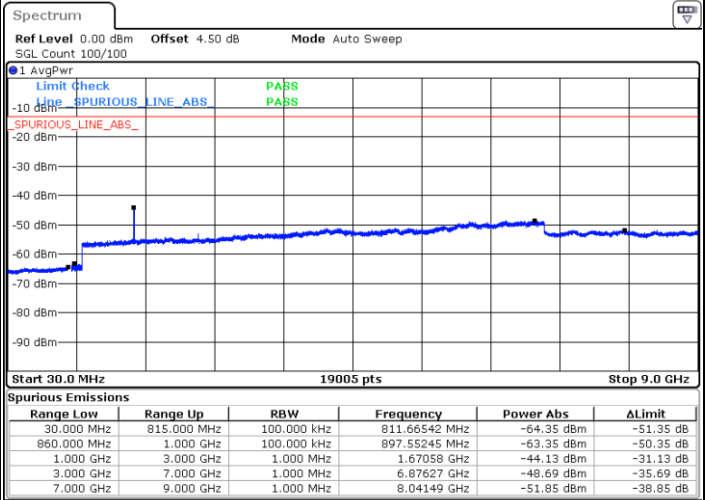
## LTE Band 5 / 3MHz

## Lowest Channel / 64QAM



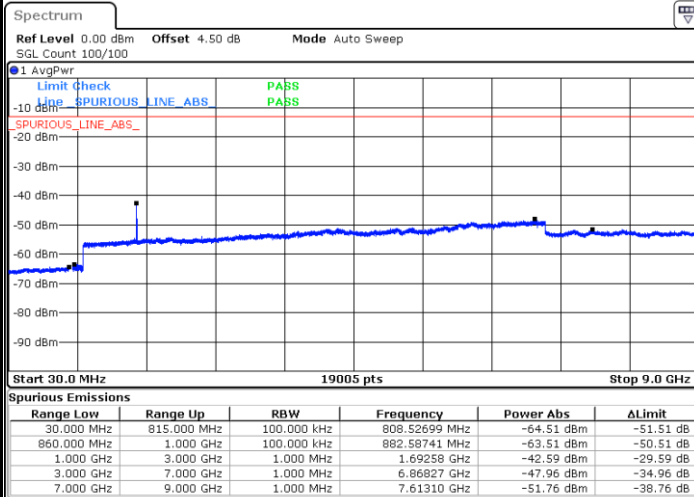
Date: 2 JUL 2017 23:13:15

## Middle Channel / 64QAM



Date: 2 JUL 2017 23:14:29

## Highest Channel / 64QAM

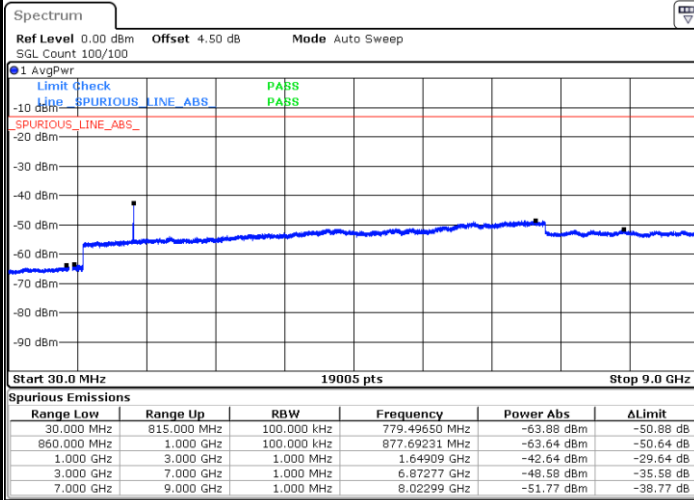


Date: 2 JUL 2017 23:18:58



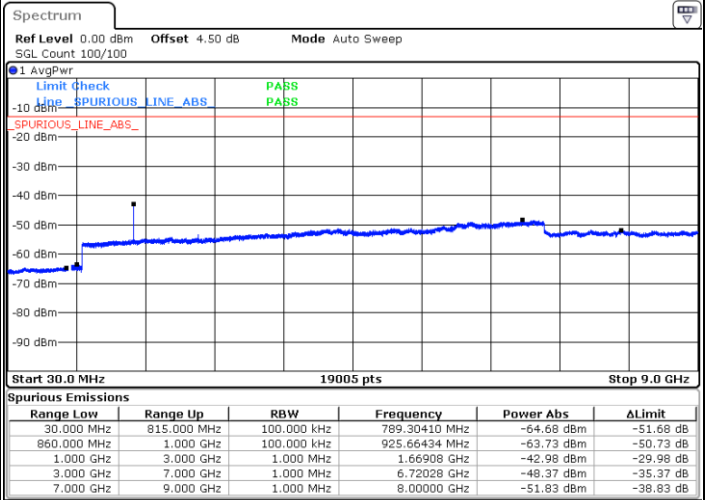
## LTE Band 5 / 5MHz

## Lowest Channel / 64QAM



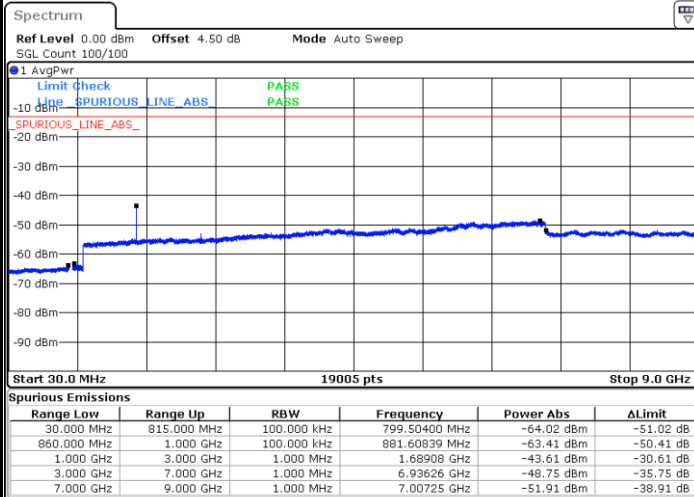
Date: 2 JUL 2017 23:23:27

## Middle Channel / 64QAM



Date: 2 JUL 2017 23:24:42

## Highest Channel / 64QAM

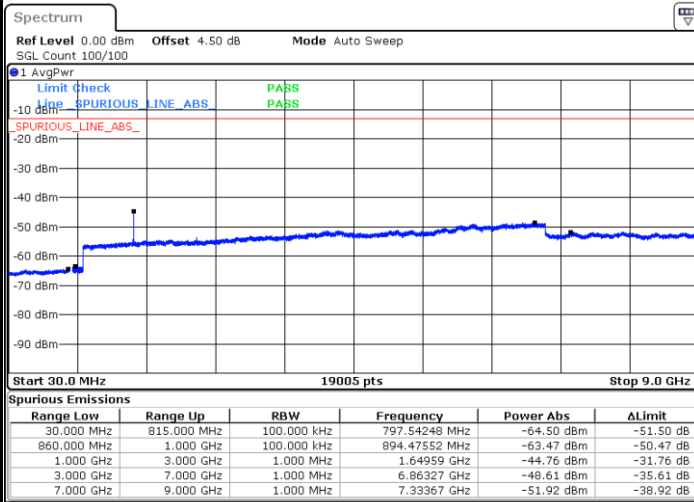


Date: 2 JUL 2017 23:29:11



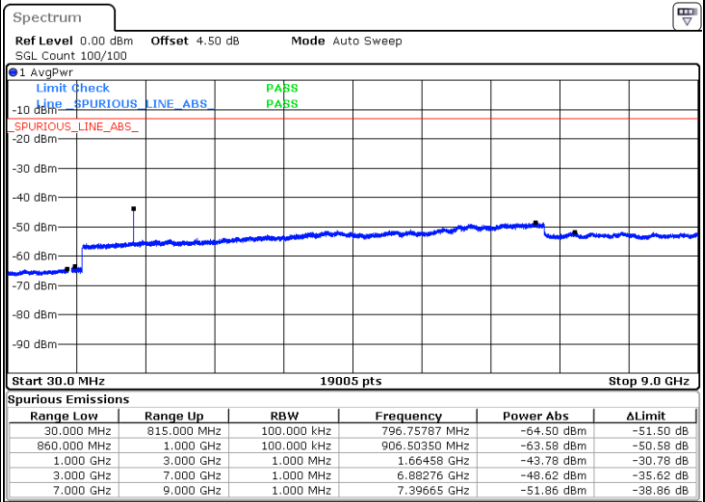
## LTE Band 5 / 10MHz

## Lowest Channel / 64QAM



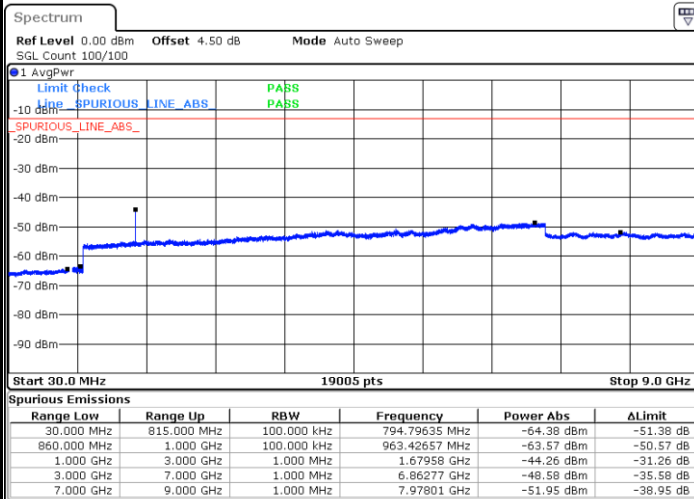
Date: 2 JUL 2017 23:33:40

## Middle Channel / 64QAM



Date: 2 JUL 2017 23:34:54

## Highest Channel / 64QAM

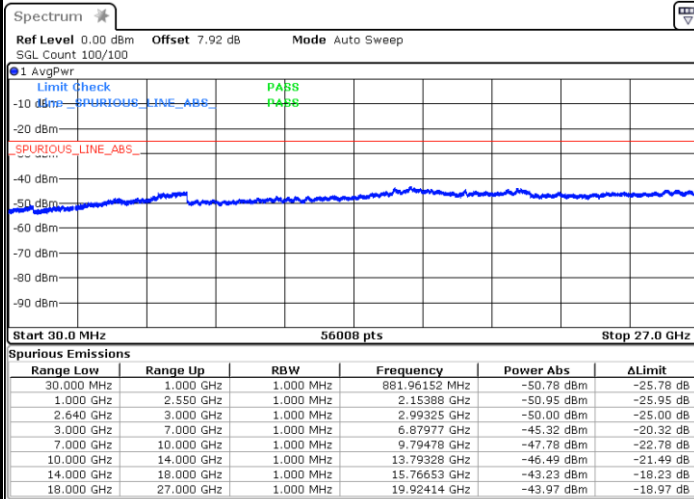


Date: 2 JUL 2017 23:39:23



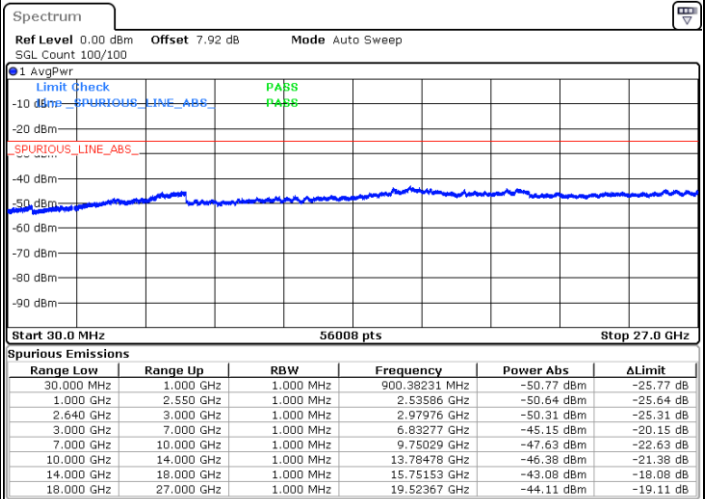
## LTE Band 38 / 5MHz

## Lowest Channel / QPSK



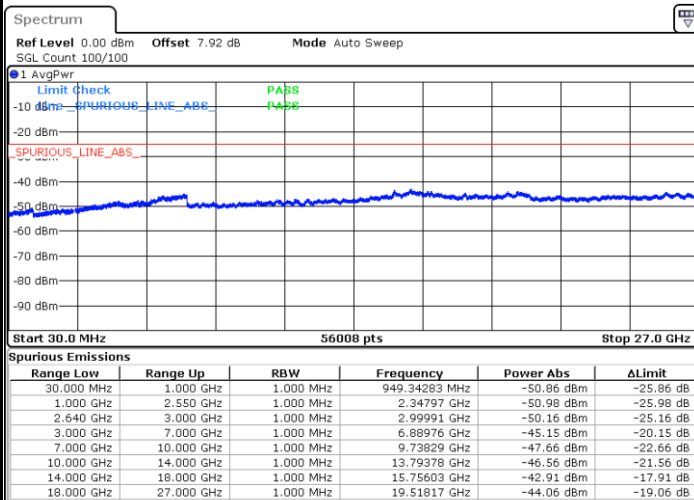
Date: 4 JUL 2017 19:15:36

## Lowest Channel / 16QAM



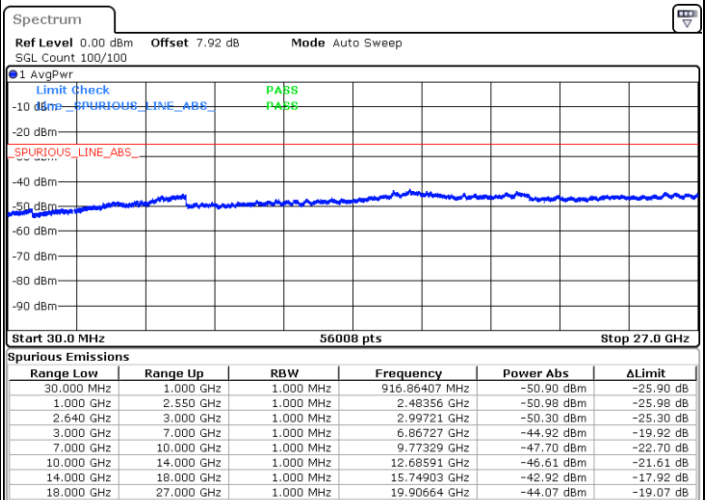
Date: 4 JUL 2017 19:16:32

## Middle Channel / QPSK



Date: 4 JUL 2017 19:20:43

## Middle Channel / 16QAM

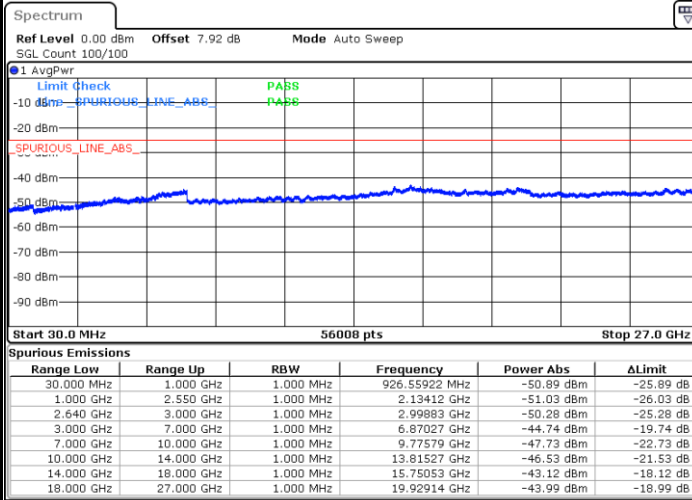


Date: 4 JUL 2017 19:19:33



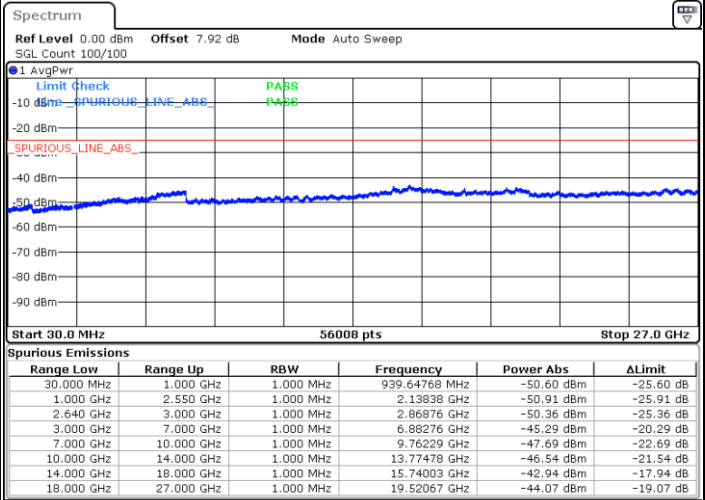
## LTE Band 38 / 5MHz

## Highest Channel / QPSK



Date: 4 JUL 2017 19:21:55

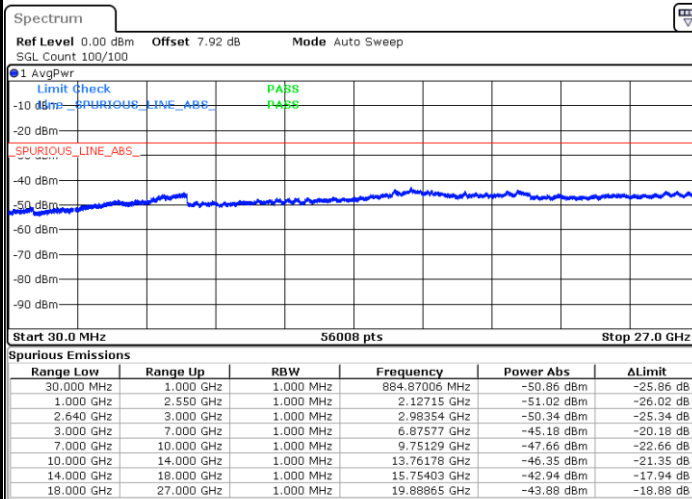
## Highest Channel / 16QAM



Date: 4 JUL 2017 19:22:53

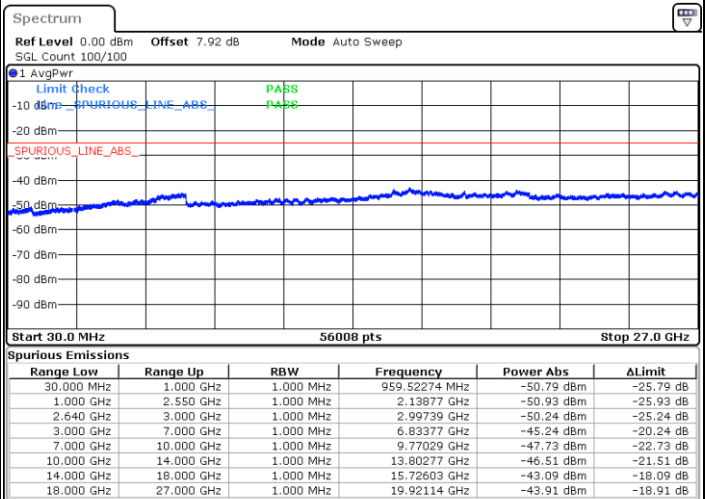
## LTE Band 38 / 10MHz

## Lowest Channel / QPSK



Date: 4 JUL 2017 19:25:26

## Lowest Channel / 16QAM

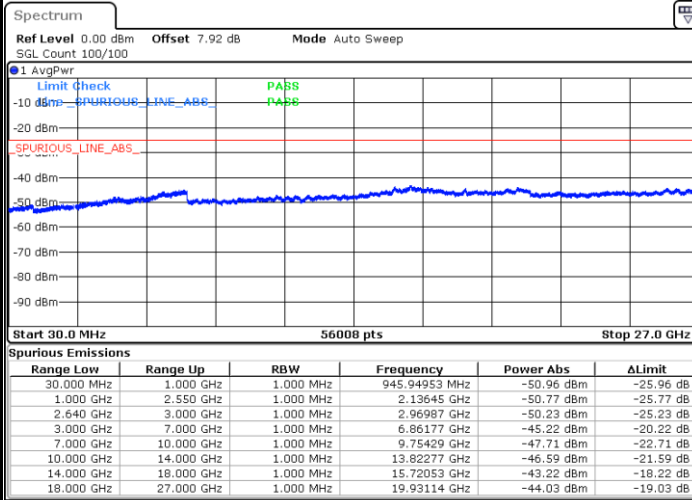


Date: 4 JUL 2017 19:26:37



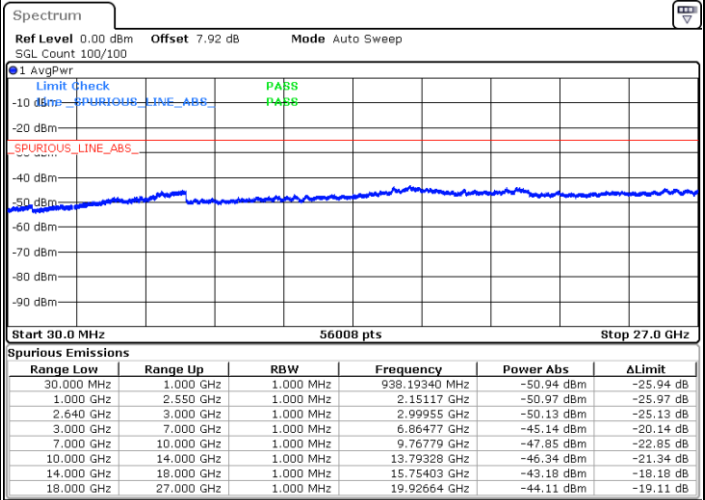
## LTE Band 38 / 10MHz

## Middle Channel / QPSK



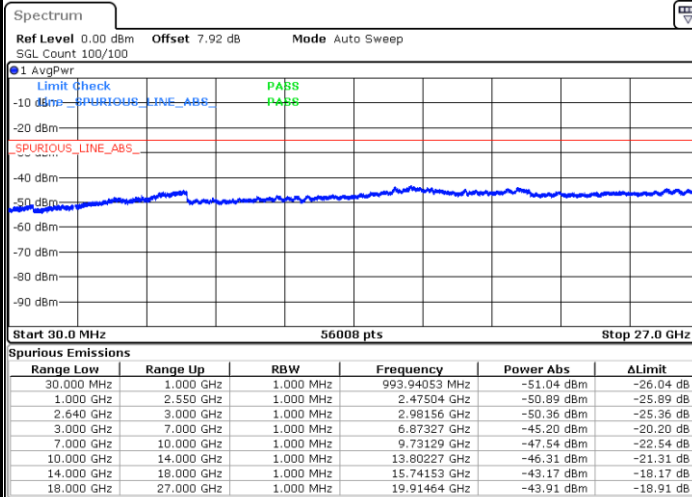
Date: 4 JUL 2017 19:30:17

## Middle Channel / 16QAM



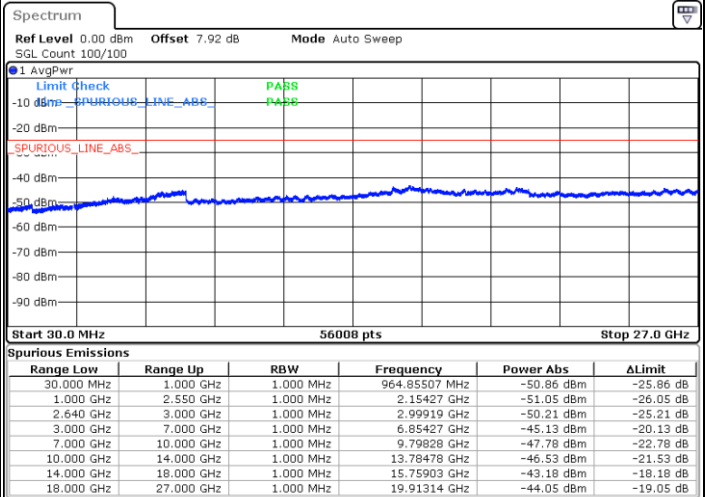
Date: 4 JUL 2017 19:29:28

## Highest Channel / QPSK



Date: 4 JUL 2017 19:31:14

## Highest Channel / 16QAM

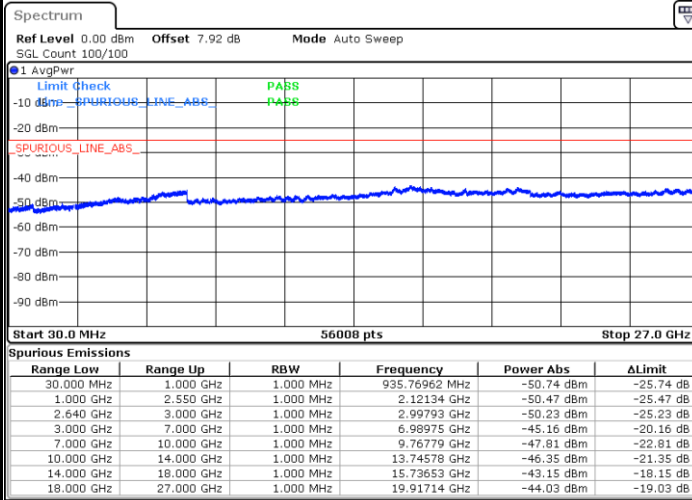


Date: 4 JUL 2017 19:32:20



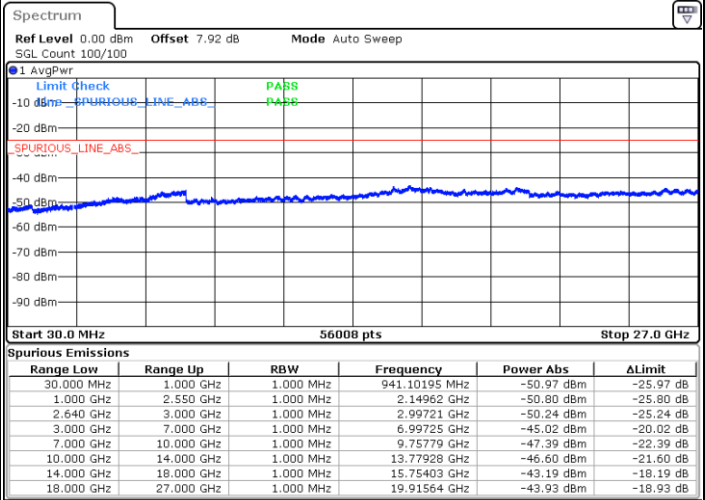
## LTE Band 38 / 15MHz

## Lowest Channel / QPSK



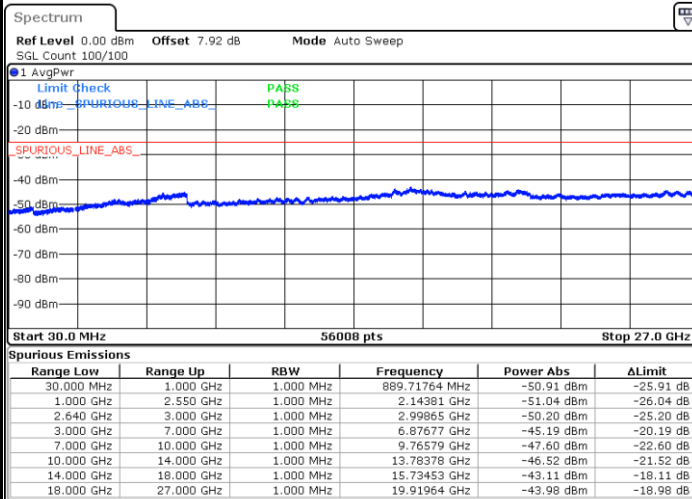
Date: 4 JUL 2017 19:36:46

## Lowest Channel / 16QAM



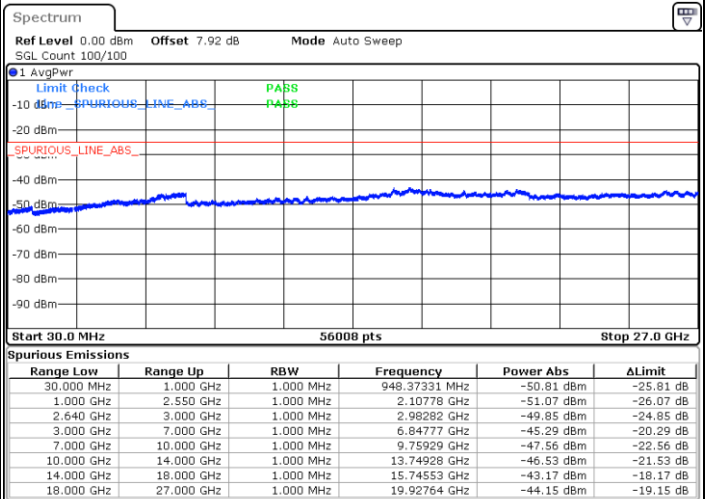
Date: 4 JUL 2017 19:35:53

## Middle Channel / QPSK



Date: 4 JUL 2017 19:37:43

## Middle Channel / 16QAM

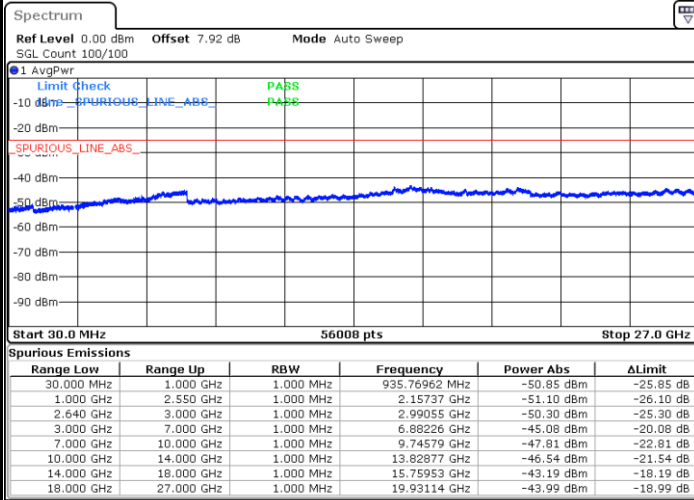


Date: 4 JUL 2017 19:38:49



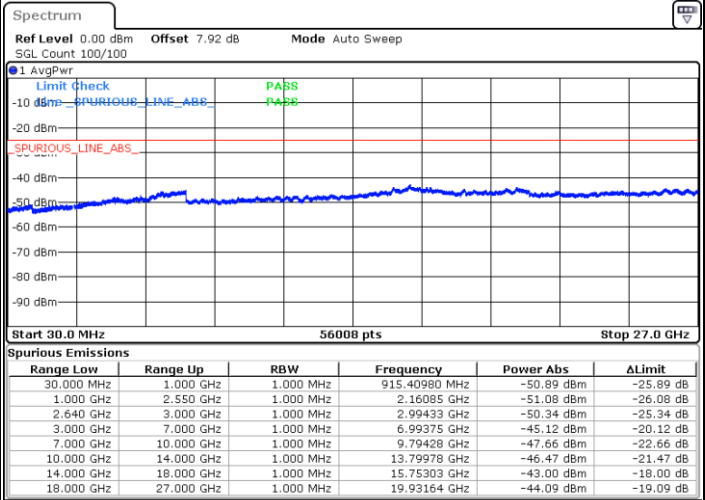
## LTE Band 38 / 15MHz

## Highest Channel / QPSK



Date: 4 JUL 2017 19:43:06

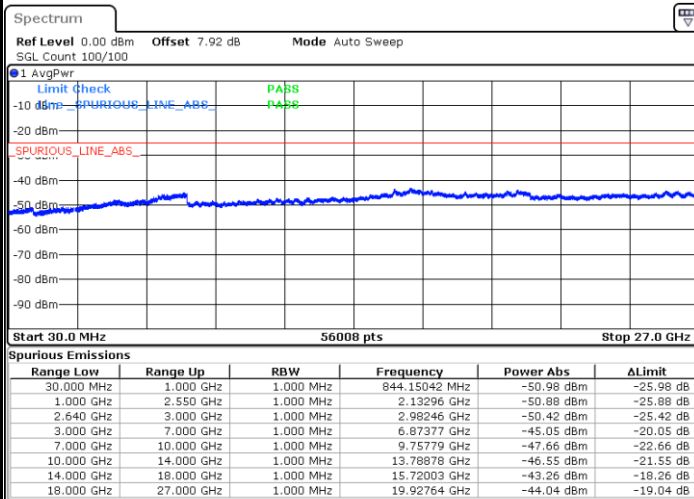
## Highest Channel / 16QAM



Date: 4 JUL 2017 19:42:08

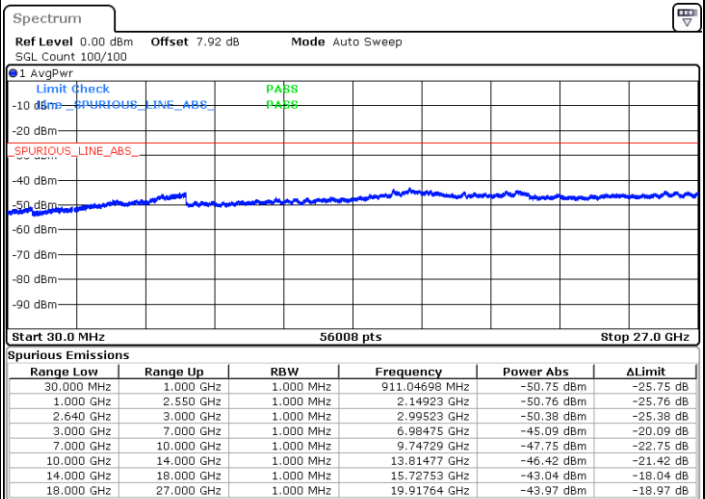
## LTE Band 38 / 20MHz

## Lowest Channel / QPSK



Date: 4 JUL 2017 19:44:36

## Lowest Channel / 16QAM

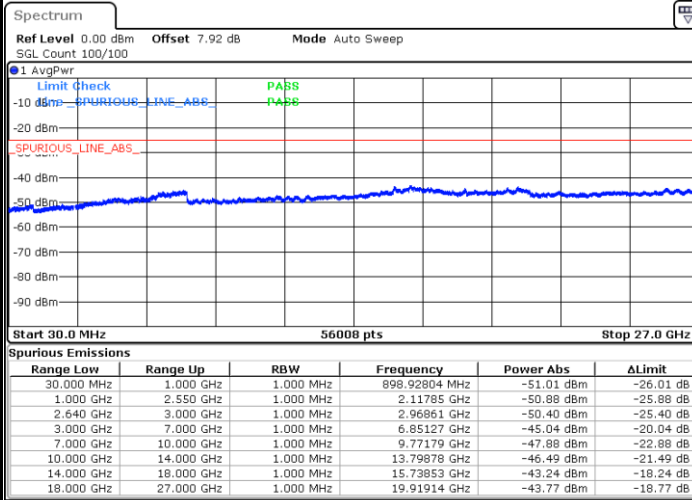


Date: 4 JUL 2017 19:45:35



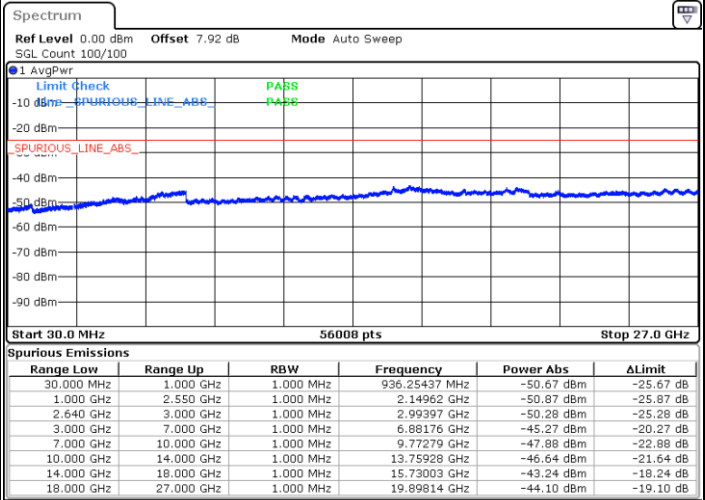
## LTE Band 38 / 20MHz

## Middle Channel / QPSK



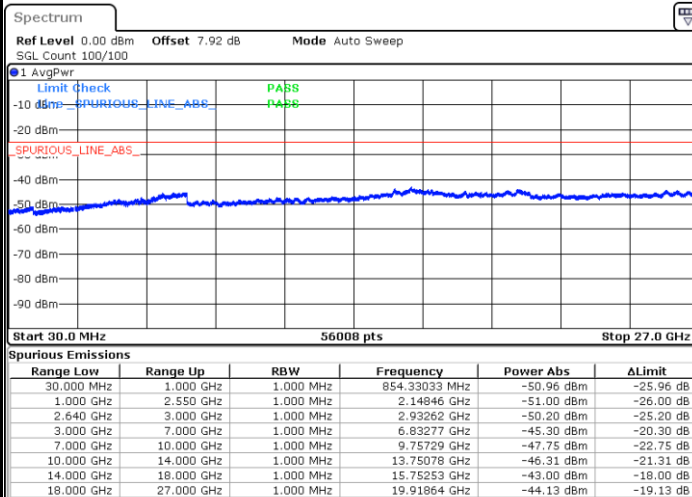
Date: 4 JUL 2017 19:49:49

## Middle Channel / 16QAM



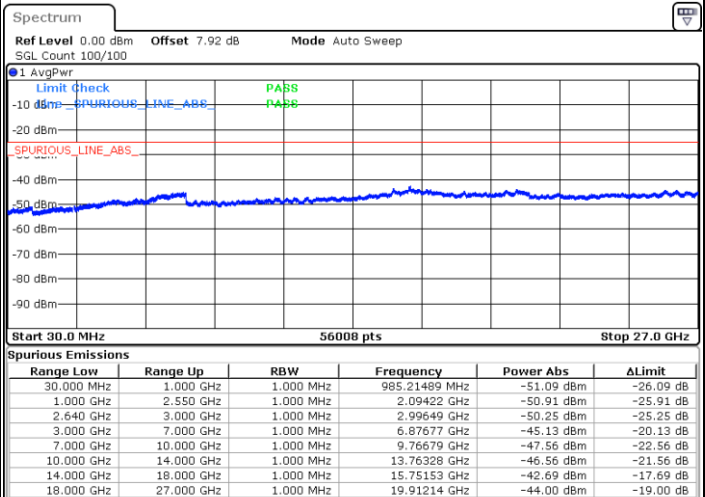
Date: 4 JUL 2017 19:48:53

## Highest Channel / QPSK



Date: 4 JUL 2017 19:51:07

## Highest Channel / 16QAM



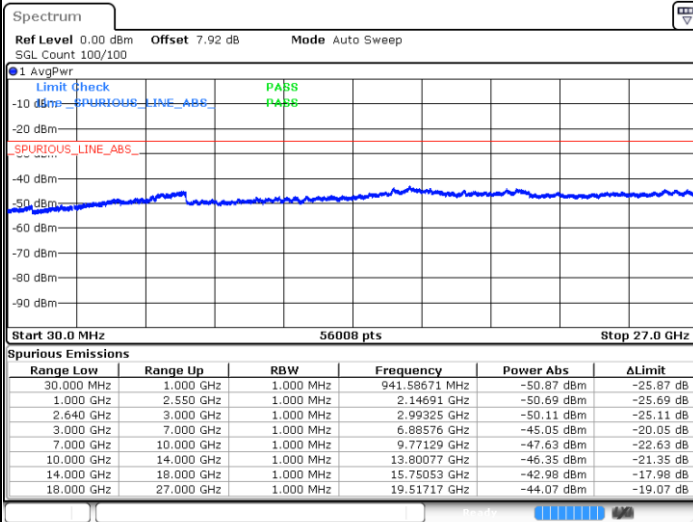
Date: 4 JUL 2017 19:52:07



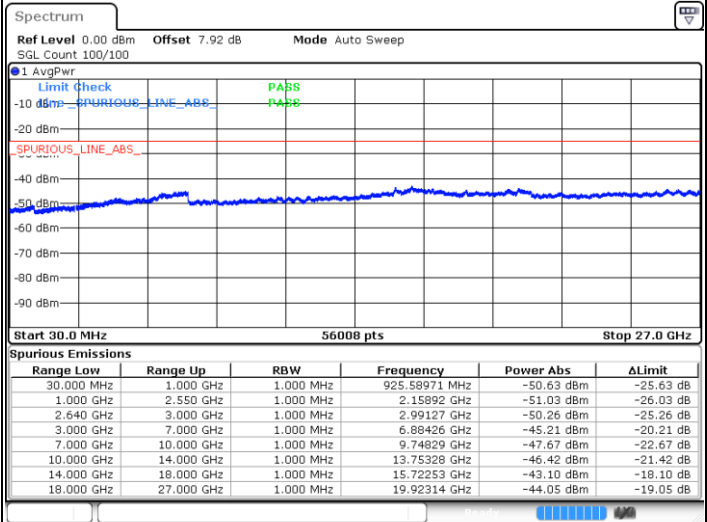
## LTE Band 38 / 5MHz

## Lowest Channel / 64QAM

## Middle Channel / 64QAM

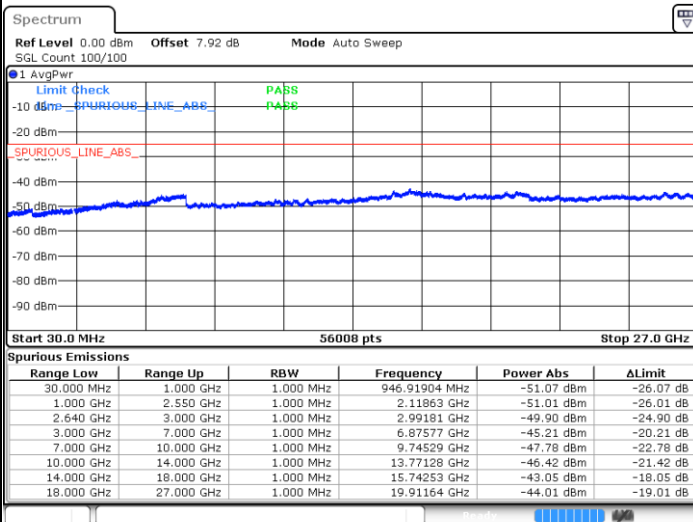


Date: 4 JUL 2017 19:17:31



Date: 4 JUL 2017 19:18:36

## Highest Channel / 64QAM

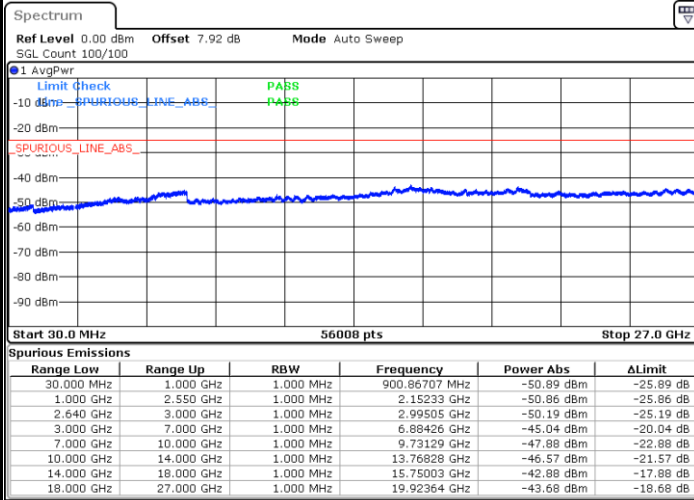


Date: 4 JUL 2017 19:23:51



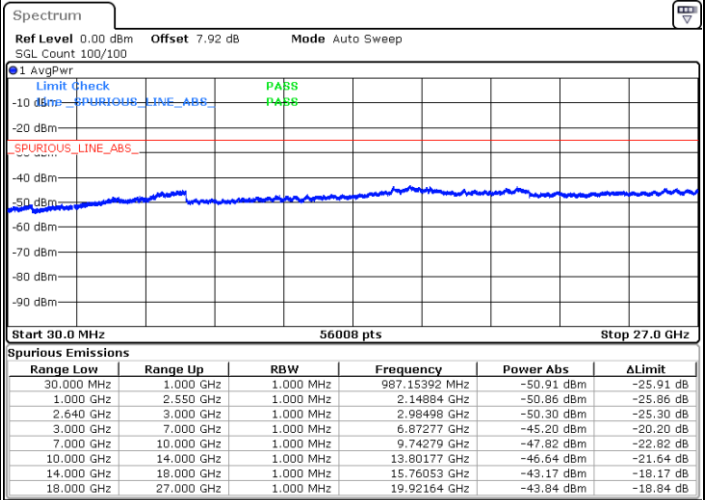
## LTE Band 38 / 10MHz

## Lowest Channel / 64QAM



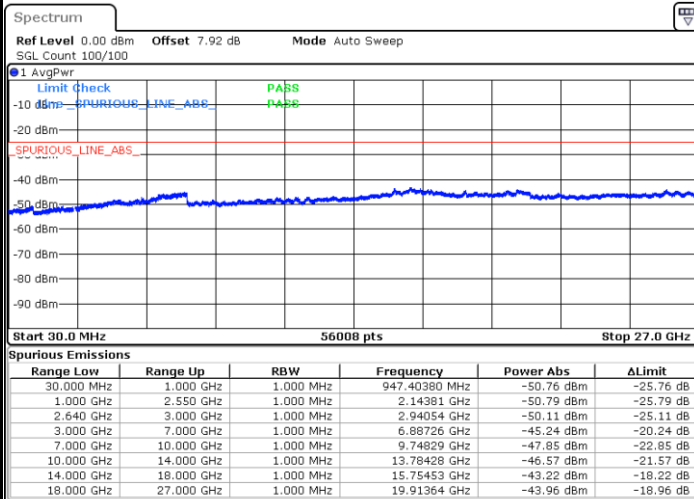
Date: 4 JUL 2017 19:27:33

## Middle Channel / 64QAM



Date: 4 JUL 2017 19:28:32

## Highest Channel / 64QAM



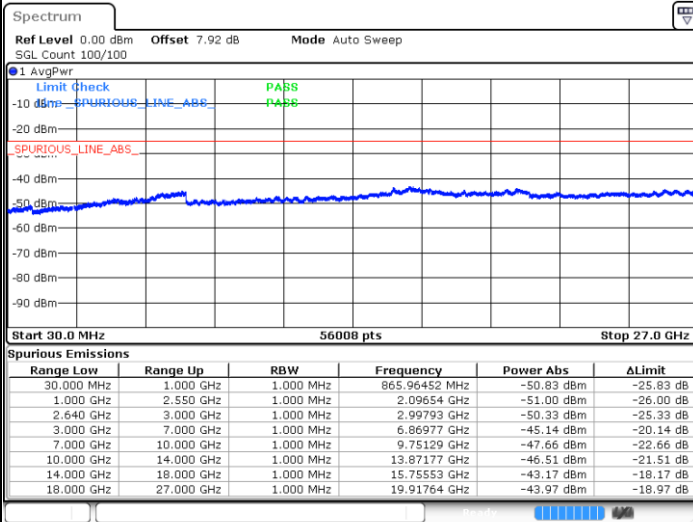
Date: 4 JUL 2017 19:33:14



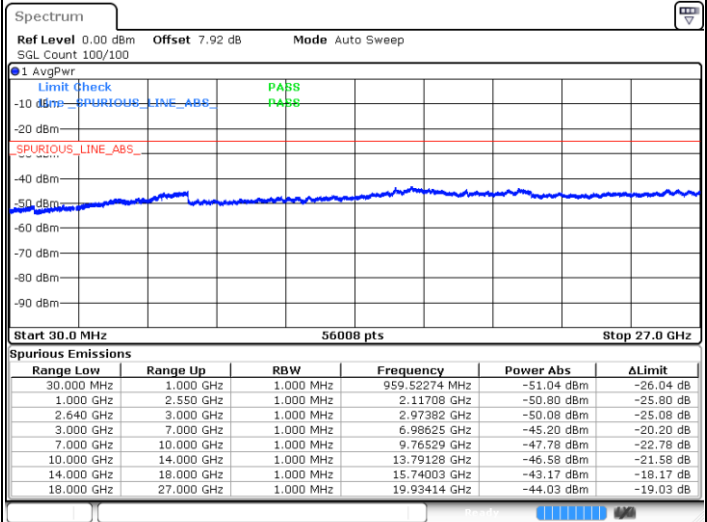
## LTE Band 38 / 15MHz

## Lowest Channel / 64QAM

## Middle Channel / 64QAM

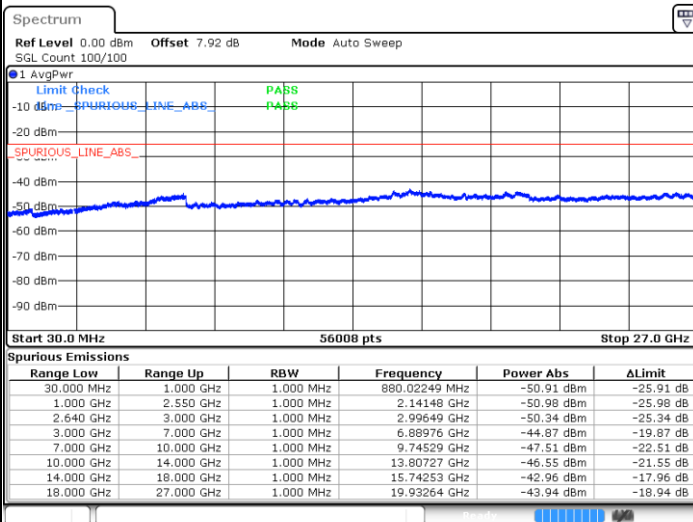


Date: 4 JUL 2017 19:35:00



Date: 4 JUL 2017 19:39:50

## Highest Channel / 64QAM

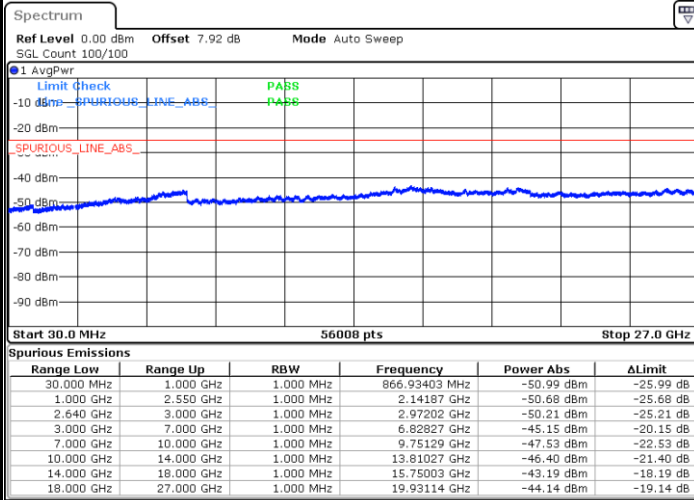


Date: 4 JUL 2017 19:40:48



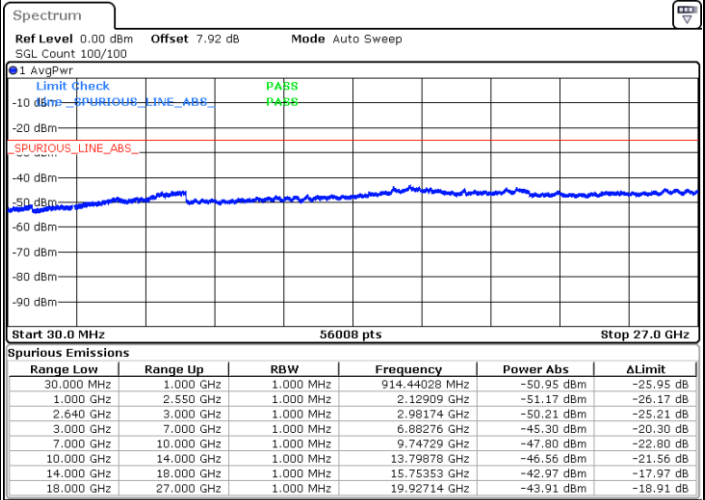
## LTE Band 38 / 20MHz

## Lowest Channel / 64QAM



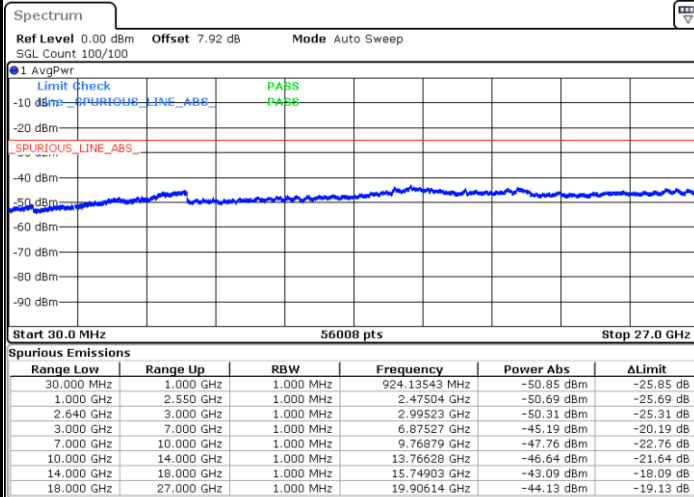
Date: 4 JUL 2017 19:46:50

## Middle Channel / 64QAM



Date: 4 JUL 2017 19:47:55

## Highest Channel / 64QAM



Date: 4 JUL 2017 19:53:03

**Frequency Stability**

| Test Conditions  |                   | LTE Band 4 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0027                             | PASS    |
| 40               | Normal Voltage    | 0.0033                             |         |
| 30               | Normal Voltage    | 0.0005                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0035                             |         |
| 0                | Normal Voltage    | 0.0001                             |         |
| -10              | Normal Voltage    | 0.0023                             |         |
| -20              | Normal Voltage    | 0.0038                             |         |
| -30              | Normal Voltage    | 0.0008                             |         |
| 20               | Maximum Voltage   | 0.0006                             |         |
| 20               | Normal Voltage    | 0.0028                             |         |
| 20               | Battery End Point | 0.0025                             |         |

**Note:**

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.4 V.
2. 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    | 0.0035                             | PASS   |
| 40               | Normal Voltage    | 0.0007                             |        |
| 30               | Normal Voltage    | 0.0013                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0007                             |        |
| 0                | Normal Voltage    | 0.0031                             |        |
| -10              | Normal Voltage    | 0.0004                             |        |
| -20              | Normal Voltage    | 0.0043                             |        |
| -30              | Normal Voltage    | 0.0050                             |        |
| 20               | Maximum Voltage   | 0.0011                             |        |
| 20               | Normal Voltage    | 0.0006                             |        |
| 20               | Battery End Point | 0.0037                             |        |

**Note:**

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 38 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0017                              | PASS    |
| 40               | Normal Voltage    | 0.0011                              |         |
| 30               | Normal Voltage    | 0.0003                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0010                              |         |
| 0                | Normal Voltage    | 0.0012                              |         |
| -10              | Normal Voltage    | 0.0002                              |         |
| -20              | Normal Voltage    | 0.0011                              |         |
| -30              | Normal Voltage    | 0.0002                              |         |
| 20               | Maximum Voltage   | 0.0008                              |         |
| 20               | Normal Voltage    | 0.0013                              |         |
| 20               | Battery End Point | 0.0005                              |         |

**Note:**

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 3465                 | -59.57          | -13              | -46.57                  | -68.47                  | -63.54                   | 4.87                       | 8.84                        | H                     |
|                                                 | 5196                 | -49.54          | -13              | -36.54                  | -63.18                  | -50.99                   | 7.70                       | 9.14                        | H                     |
|                                                 | 6927                 | -57.34          | -13              | -44.34                  | -75.81                  | -59.02                   | 8.98                       | 10.66                       | H                     |
|                                                 | 3465                 | -53.31          | -13              | -40.31                  | -64.93                  | -57.28                   | 4.87                       | 8.84                        | V                     |
|                                                 | 5196                 | -52.41          | -13              | -39.41                  | -66.46                  | -53.85                   | 7.70                       | 9.14                        | V                     |
|                                                 | 6927                 | -57.58          | -13              | -44.58                  | -75.6                   | -59.26                   | 8.98                       | 10.66                       | 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<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                        | 3462                 | -54.17          | -13              | -41.17                  | -63.07                  | -58.14                   | 4.87                       | 8.84                        | H                     |
|                                               | 5193                 | -43.79          | -13              | -30.79                  | -60.63                  | -45.23                   | 7.70                       | 9.14                        | H                     |
|                                               | 6924                 | -58.05          | -13              | -45.05                  | -76.52                  | -59.73                   | 8.98                       | 10.66                       | H                     |
|                                               | 3462                 | -49.58          | -13              | -36.58                  | -62.86                  | -53.55                   | 4.87                       | 8.84                        | V                     |
|                                               | 5193                 | -50.62          | -13              | -37.62                  | -64.67                  | -52.06                   | 7.70                       | 9.14                        | V                     |
|                                               | 6924                 | -58.25          | -13              | -45.25                  | -76.27                  | -59.93                   | 8.98                       | 10.66                       | 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                                        | 3459              | -58.24       | -13           | -45.24            | -67.14            | -62.21             | 4.87                 | 8.84                  | H                  |
|                                               | 5190              | -56.95       | -13           | -43.95            | -67.88            | -58.39             | 7.70                 | 9.14                  | H                  |
|                                               | 6921              | -58.39       | -13           | -45.39            | -76.86            | -60.07             | 8.98                 | 10.66                 | H                  |
|                                               | 3459              | -51.81       | -13           | -38.81            | -63.79            | -55.78             | 4.87                 | 8.84                  | V                  |
|                                               | 5190              | -56.73       | -13           | -43.73            | -70.78            | -58.17             | 7.70                 | 9.14                  | V                  |
|                                               | 6921              | -58.09       | -13           | -45.09            | -76.11            | -59.77             | 8.98                 | 10.66                 | 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              | -57.71       | -13           | -44.71            | -66.61            | -61.68             | 4.87                 | 8.84                  | H                  |
|                                                | 5184              | -45.09       | -13           | -32.09            | -61.12            | -46.53             | 7.70                 | 9.14                  | H                  |
|                                                | 6912              | -58.25       | -13           | -45.25            | -76.72            | -59.93             | 8.98                 | 10.66                 | H                  |
|                                                | 3456              | -54.10       | -13           | -41.10            | -65.72            | -58.07             | 4.87                 | 8.84                  | V                  |
|                                                | 5184              | -50.99       | -13           | -37.99            | -65.04            | -52.43             | 7.70                 | 9.14                  | V                  |
|                                                | 6912              | -58.36       | -13           | -45.36            | -76.38            | -60.04             | 8.98                 | 10.66                 | 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 ) | 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                                         | 3453              | -60.61      | -13           | -47.61            | -69.51            | -64.58             | 4.87                 | 8.84                  | H                  |
|                                                | 5178              | -49.62      | -13           | -36.62            | -63.25            | -51.06             | 7.70                 | 9.14                  | H                  |
|                                                | 6903              | -59.00      | -13           | -46.00            | -77.47            | -60.68             | 8.98                 | 10.66                 | H                  |
|                                                | 3450              | -53.84      | -13           | -40.84            | -65.46            | -57.81             | 4.87                 | 8.84                  | V                  |
|                                                | 5178              | -41.40      | -13           | -28.40            | -58.91            | -42.84             | 7.70                 | 9.14                  | V                  |
|                                                | 6903              | -58.96      | -13           | -45.96            | -76.98            | -60.64             | 8.98                 | 10.66                 | 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 ) | 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                                         | 3447              | -57.21      | -13           | -44.21            | -66.11            | -61.18             | 4.87                 | 8.84                  | H                  |
|                                                | 5172              | -54.39      | -13           | -41.39            | -65.32            | -55.83             | 7.70                 | 9.14                  | H                  |
|                                                | 6894              | -56.98      | -13           | -43.98            | -75.45            | -58.66             | 8.98                 | 10.66                 | H                  |
|                                                | 3447              | -54.34      | -13           | -41.34            | -65.96            | -58.31             | 4.87                 | 8.84                  | V                  |
|                                                | 5172              | -51.38      | -13           | -38.38            | -65.43            | -52.82             | 7.70                 | 9.14                  | V                  |
|                                                | 6894              | -58.34      | -13           | -45.34            | -76.36            | -60.02             | 8.98                 | 10.66                 | 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                                          | 1672              | -64.17      | -13           | -51.17            | -66.77            | -66.49             | 1.33                 | 5.80                  | H                  |
|                                                 | 2508              | -40.66      | -13           | -27.66            | -52.99            | -43.83             | 1.58                 | 6.90                  | H                  |
|                                                 | 3345              | -66.55      | -13           | -53.55            | -75.76            | -70.05             | 1.85                 | 7.50                  | H                  |
|                                                 | 1672              | -66.19      | -13           | -53.19            | -68.06            | -68.51             | 1.33                 | 5.80                  | V                  |
|                                                 | 2508              | -45.54      | -13           | -32.54            | -56.36            | -48.71             | 1.58                 | 6.90                  | V                  |
|                                                 | 3345              | -66.79      | -13           | -53.79            | -75.81            | -70.29             | 1.85                 | 7.50                  | 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              | -62.37      | -13           | -49.37            | -64.97            | -64.69             | 1.33                 | 5.80                  | H                  |
|                                               | 2506              | -44.11      | -13           | -31.11            | -55.86            | -47.28             | 1.58                 | 6.90                  | H                  |
|                                               | 3342              | -66.73      | -13           | -53.73            | -75.94            | -70.23             | 1.85                 | 7.50                  | H                  |
|                                               | 1670              | -65.85      | -13           | -52.85            | -67.72            | -68.17             | 1.33                 | 5.80                  | V                  |
|                                               | 2506              | -45.21      | -13           | -32.21            | -56.12            | -48.38             | 1.58                 | 6.90                  | V                  |
|                                               | 3342              | -66.11      | -13           | -53.11            | -75.13            | -69.61             | 1.85                 | 7.50                  | 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              | -64.72      | -13           | -51.72            | -67.32            | -67.04             | 1.33                 | 5.80                  | H                  |
|                                               | 2502              | -42.06      | -13           | -29.06            | -54.14            | -45.23             | 1.58                 | 6.90                  | H                  |
|                                               | 3336              | -66.38      | -13           | -53.38            | -75.59            | -69.88             | 1.85                 | 7.50                  | H                  |
|                                               | 1668              | -66.30      | -13           | -53.30            | -68.17            | -68.62             | 1.33                 | 5.80                  | V                  |
|                                               | 2502              | -45.89      | -13           | -32.89            | -56.62            | -49.06             | 1.58                 | 6.90                  | V                  |
|                                               | 3336              | -67.13      | -13           | -54.13            | -76.15            | -70.63             | 1.85                 | 7.50                  | 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              | -63.42      | -13           | -50.42            | -66.02            | -65.74             | 1.33                 | 5.80                  | H                  |
|                                                | 2496              | -42.13      | -13           | -29.13            | -54.19            | -45.30             | 1.58                 | 6.90                  | H                  |
|                                                | 3327              | -66.36      | -13           | -53.36            | -75.57            | -69.86             | 1.85                 | 7.50                  | H                  |
|                                                | 1664              | -65.03      | -13           | -52.03            | -66.90            | -67.35             | 1.33                 | 5.80                  | V                  |
|                                                | 2496              | -43.75      | -13           | -30.75            | -54.87            | -46.92             | 1.58                 | 6.90                  | V                  |
|                                                | 3327              | -67.31      | -13           | -54.31            | -76.33            | -70.81             | 1.85                 | 7.50                  | V                  |

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



| LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                         | 5186                 | -67.78          | -25              | -42.78                  | -55.65                  | -74.33                   | 2.56                       | 9.12                        | H                     |
|                                                | 7778                 | -64.28          | -25              | -39.28                  | -58.60                  | -72.79                   | 3.45                       | 11.97                       | H                     |
|                                                | 10370                | -61.36          | -25              | -36.36                  | -61.11                  | -69.84                   | 3.62                       | 12.10                       | H                     |
|                                                | 5186                 | -67.43          | -25              | -42.43                  | -55.43                  | -73.98                   | 2.56                       | 9.12                        | V                     |
|                                                | 7778.52              | -65.51          | -25              | -40.51                  | -58.49                  | -74.02                   | 3.45                       | 11.97                       | V                     |
|                                                | 10370                | -58.57          | -25              | -33.57                  | -58.82                  | -67.05                   | 3.62                       | 12.10                       | V                     |

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

| LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 5180                 | -67.23          | -25              | -42.23                  | -55.10                  | -73.78                   | 2.56                       | 9.12                        | H                     |
|                                                 | 7772                 | -63.56          | -25              | -38.56                  | -57.88                  | -72.07                   | 3.45                       | 11.97                       | H                     |
|                                                 | 10360                | -61.64          | -25              | -36.64                  | -61.39                  | -70.12                   | 3.62                       | 12.10                       | H                     |
|                                                 | 5180                 | -67.52          | -25              | -42.52                  | -55.52                  | -74.07                   | 2.56                       | 9.12                        | V                     |
|                                                 | 7772                 | -64.22          | -25              | -39.22                  | -57.2                   | -72.73                   | 3.45                       | 11.97                       | V                     |
|                                                 | 10360                | -60.36          | -25              | -35.36                  | -60.61                  | -68.84                   | 3.62                       | 12.10                       | V                     |

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



| LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 5177                 | -67.89          | -25              | -42.89                  | -55.76                  | -74.44                   | 2.56                       | 9.12                        | H                     |
|                                                 | 7766                 | -62.76          | -25              | -37.76                  | -57.08                  | -71.27                   | 3.45                       | 11.97                       | H                     |
|                                                 | 10350                | -61.89          | -25              | -36.89                  | -61.64                  | -70.37                   | 3.62                       | 12.10                       | H                     |
|                                                 | 5177                 | -67.01          | -25              | -42.01                  | -55.01                  | -73.56                   | 2.56                       | 9.12                        | V                     |
|                                                 | 7766                 | -65.09          | -25              | -40.09                  | -58.07                  | -73.60                   | 3.45                       | 11.97                       | V                     |
|                                                 | 10350                | -60.07          | -25              | -35.07                  | -60.32                  | -68.55                   | 3.62                       | 12.10                       | V                     |

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

| LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                                          | 5171                 | -68.29          | -25              | -43.29                  | -56.16                  | -74.84                   | 2.56                       | 9.12                        | H                     |
|                                                 | 7757                 | -63.09          | -25              | -38.09                  | -57.41                  | -71.60                   | 3.45                       | 11.97                       | H                     |
|                                                 | 10340                | -62.35          | -25              | -37.35                  | -62.10                  | -70.83                   | 3.62                       | 12.10                       | H                     |
|                                                 | 5171                 | -67.87          | -25              | -42.87                  | -55.87                  | -74.42                   | 2.56                       | 9.12                        | V                     |
|                                                 | 7757                 | -64.42          | -25              | -39.42                  | -57.4                   | -72.93                   | 3.45                       | 11.97                       | V                     |
|                                                 | 10340                | -60.25          | -25              | -35.25                  | -60.5                   | -68.73                   | 3.62                       | 12.10                       | V                     |

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



## **Appendix D. Reference Report**

Please refer to Sporton report number FG761702-01B which is issued separately.