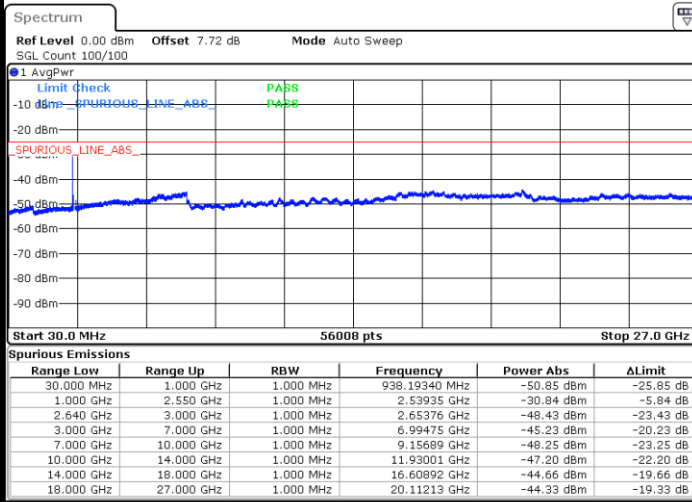




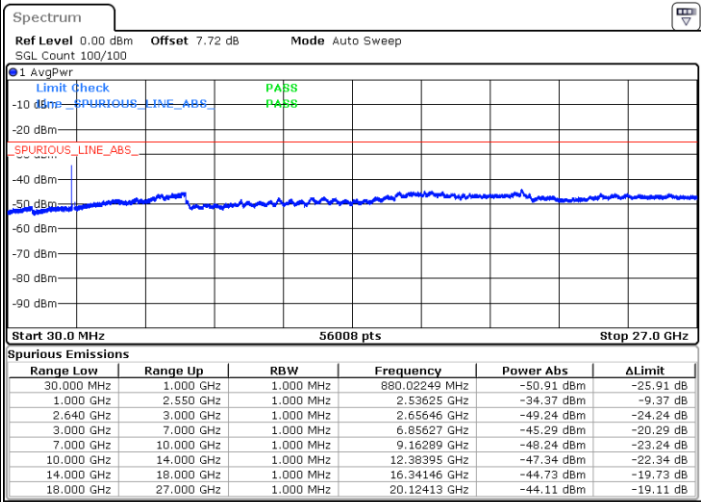
## LTE Band 38 / 15MHz

## Lowest Channel / QPSK



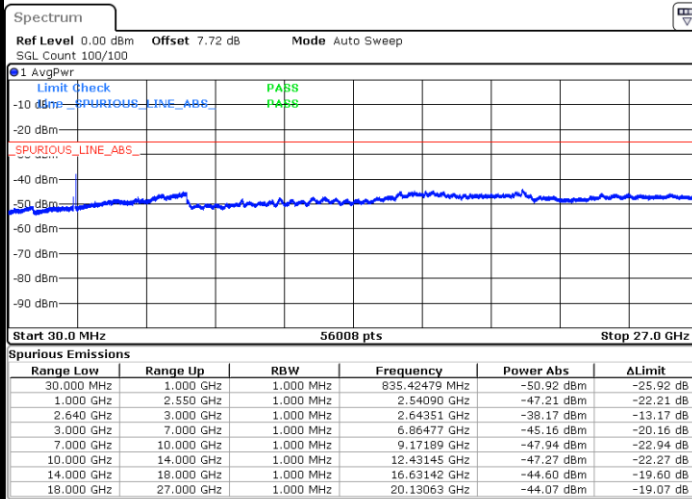
Date: 9 MAY 2018 10:13:06

## Lowest Channel / 16QAM



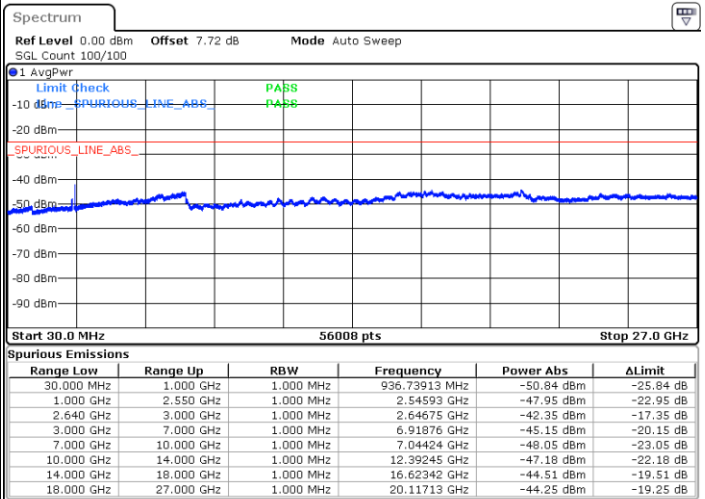
Date: 9 MAY 2018 10:14:01

## Middle Channel / QPSK



Date: 9 MAY 2018 10:14:56

## Middle Channel / 16QAM

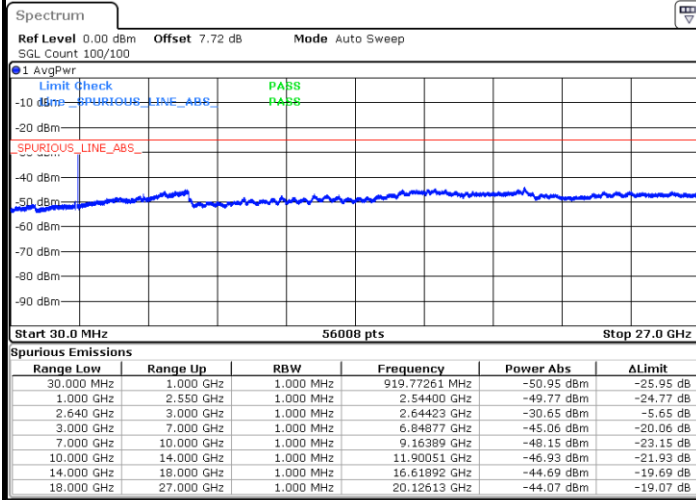


Date: 9 MAY 2018 10:15:52



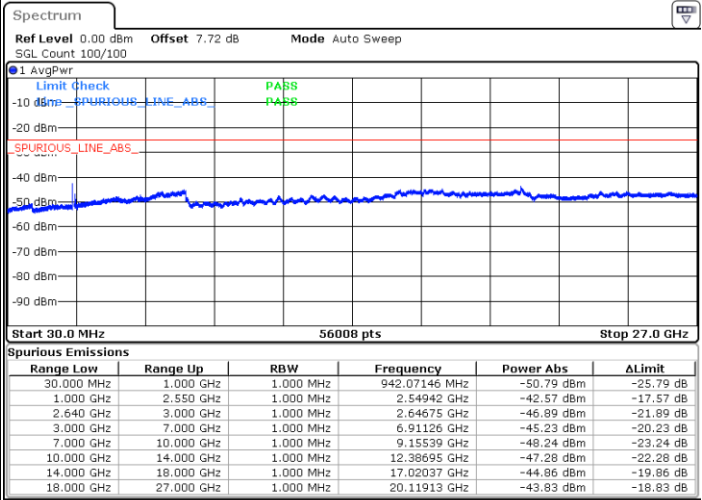
## LTE Band 38 / 15MHz

## Highest Channel / QPSK



Date: 9 MAY 2018 10:16:47

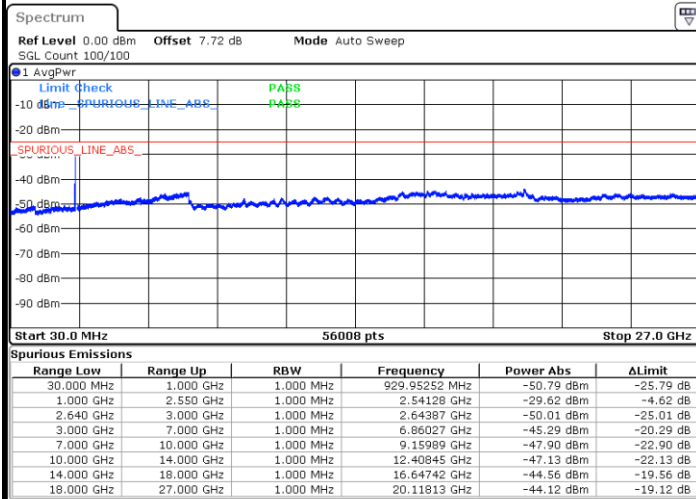
## Highest Channel / 16QAM



Date: 9 MAY 2018 10:17:43

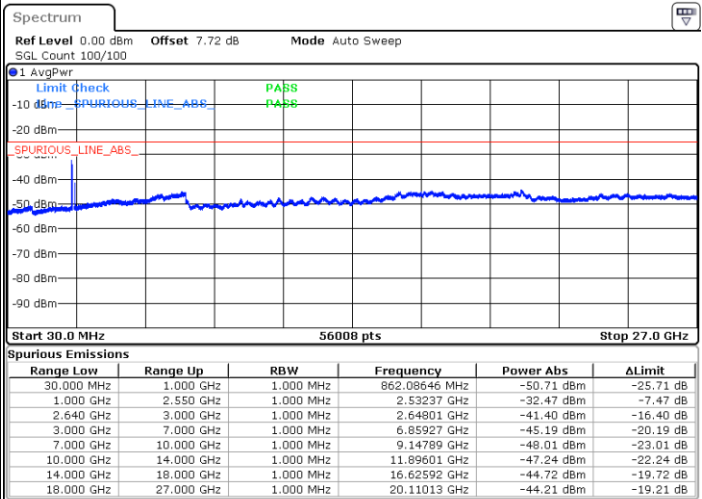
## LTE Band 38 / 20MHz

## Lowest Channel / QPSK



Date: 9 MAY 2018 10:18:38

## Lowest Channel / 16QAM

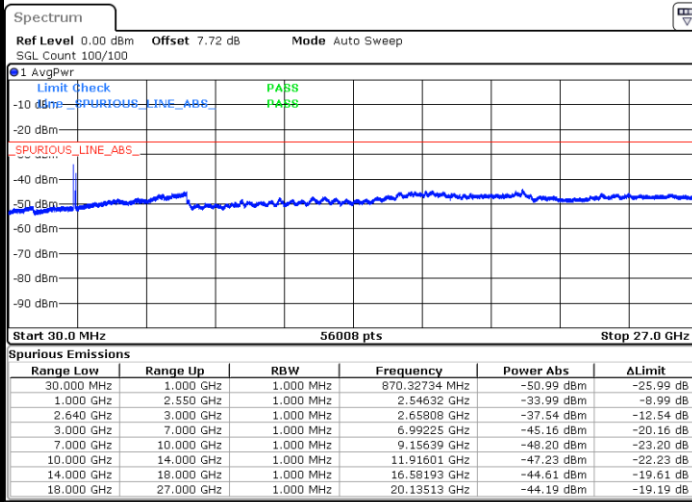


Date: 9 MAY 2018 10:19:34



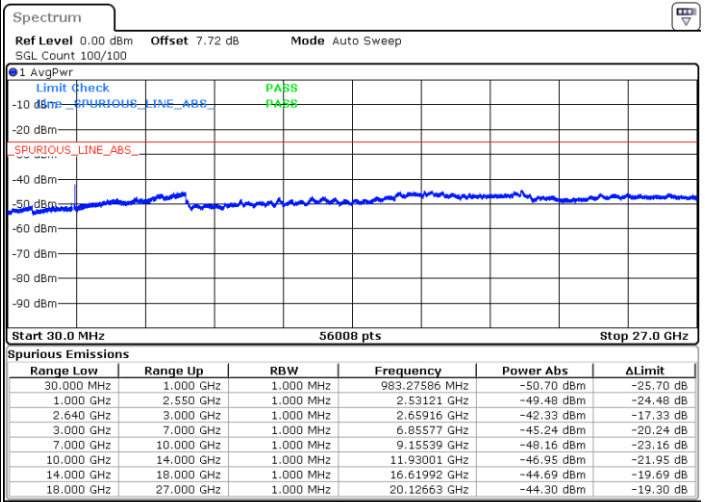
## LTE Band 38 / 20MHz

## Middle Channel / QPSK



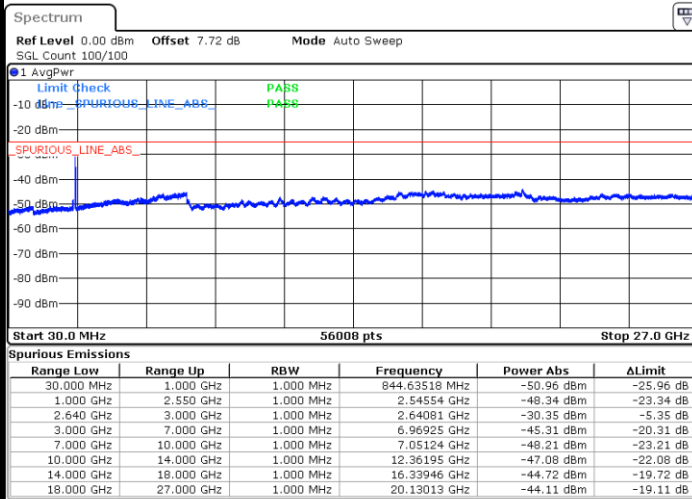
Date: 9 MAY 2018 10:20:29

## Middle Channel / 16QAM



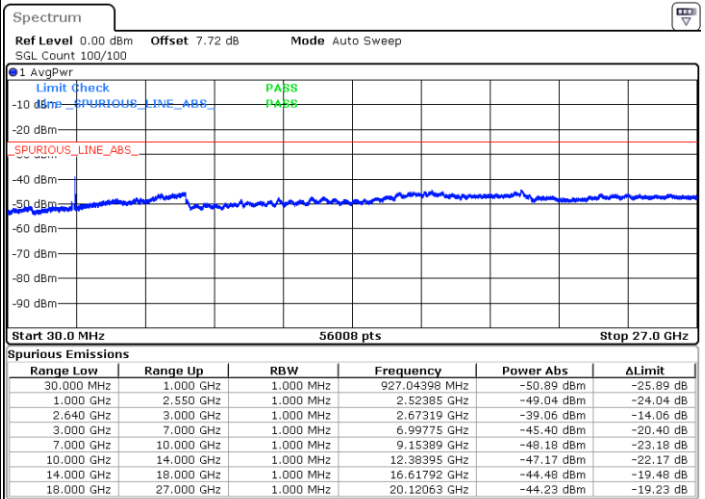
Date: 9 MAY 2018 10:21:25

## Highest Channel / QPSK



Date: 9 MAY 2018 10:22:20

## Highest Channel / 16QAM

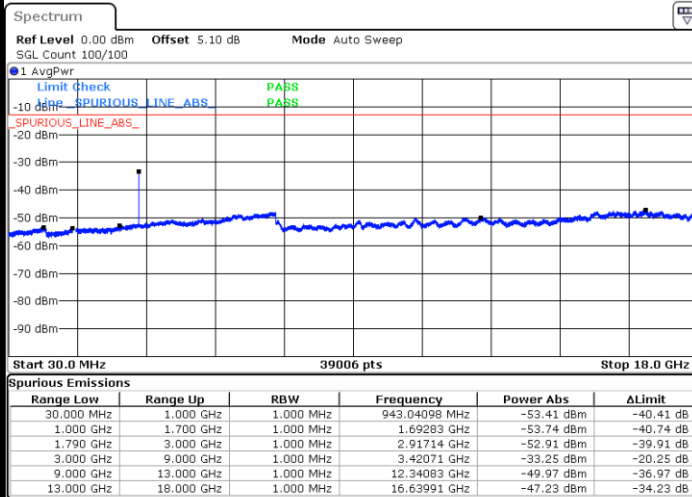


Date: 9 MAY 2018 10:23:16



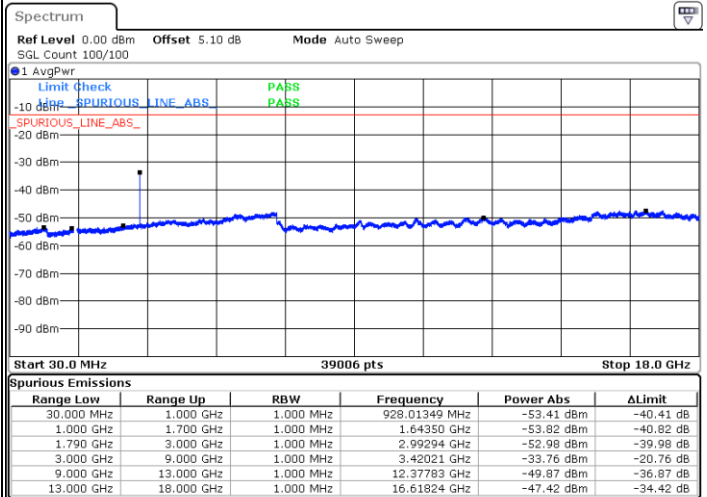
## LTE Band 66 / 1.4MHz

## Lowest Channel / QPSK



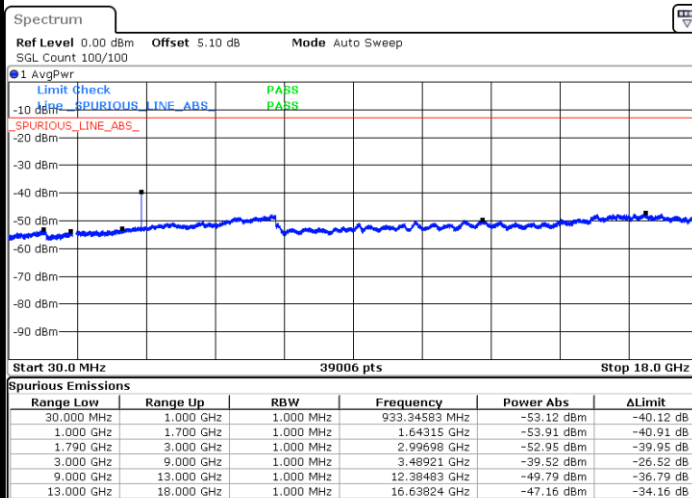
Date: 11.MAY.2018 18:56:10

## Lowest Channel / 16QAM



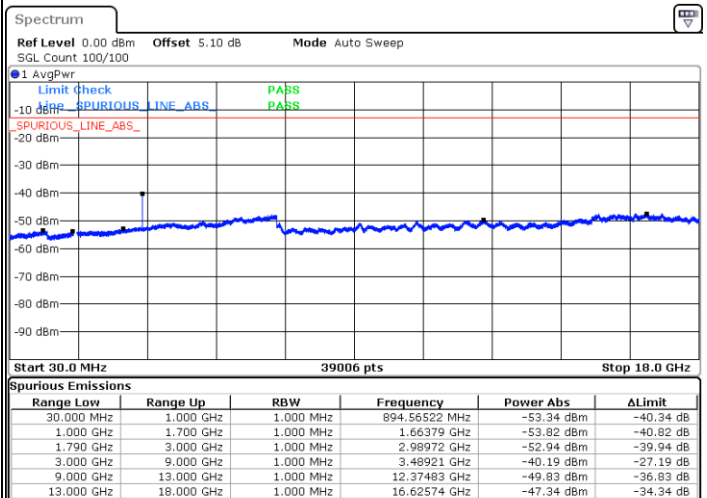
Date: 11.MAY.2018 18:55:15

## Middle Channel / QPSK



Date: 11.MAY.2018 18:59:29

## Middle Channel / 16QAM

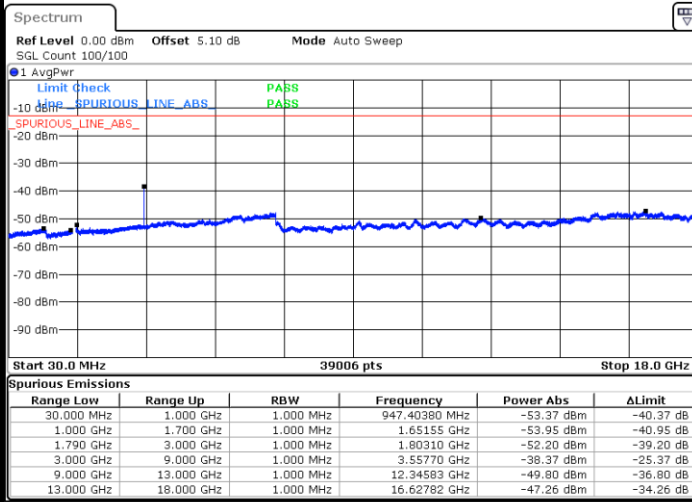


Date: 11.MAY.2018 18:58:42



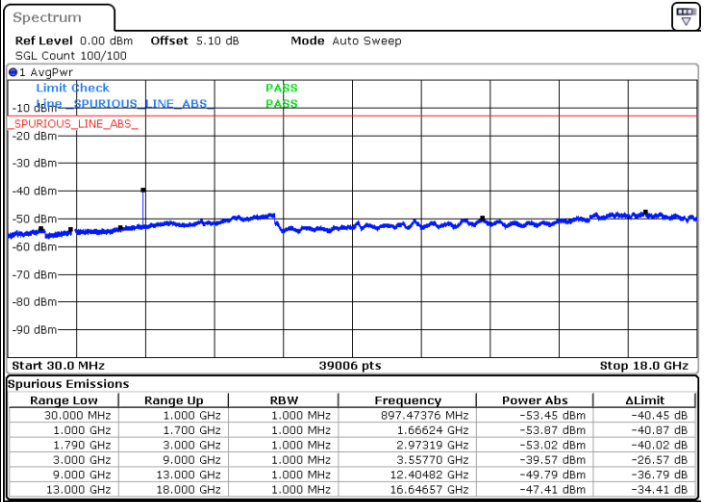
## LTE Band 66 / 1.4MHz

## Highest Channel / QPSK



Date: 11.MAY.2018 19:00:36

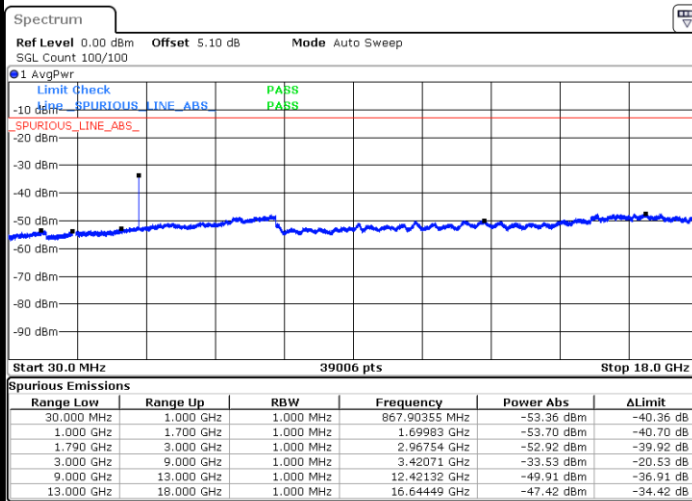
## Highest Channel / 16QAM



Date: 11.MAY.2018 19:01:16

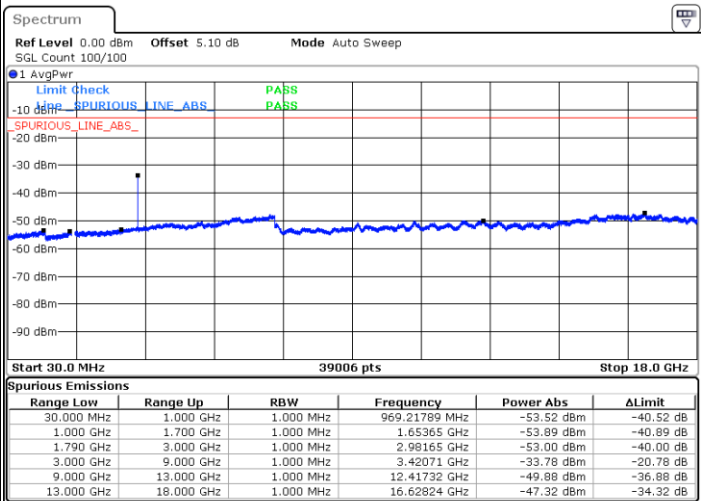
## LTE Band 66 / 3MHz

## Lowest Channel / QPSK



Date: 11.MAY.2018 19:14:21

## Lowest Channel / 16QAM

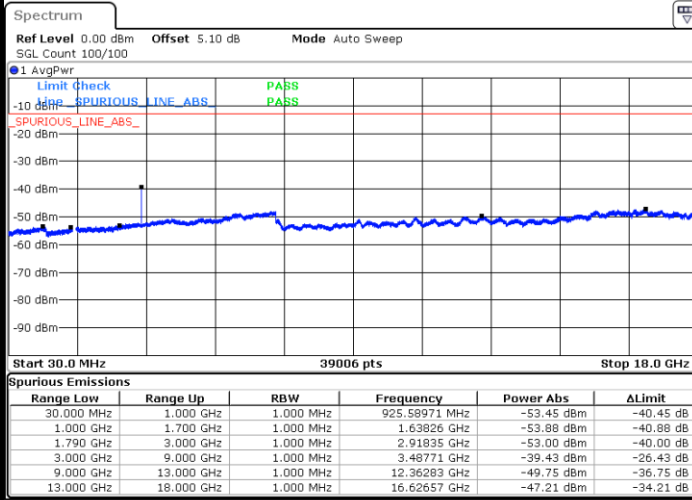


Date: 11.MAY.2018 19:15:02



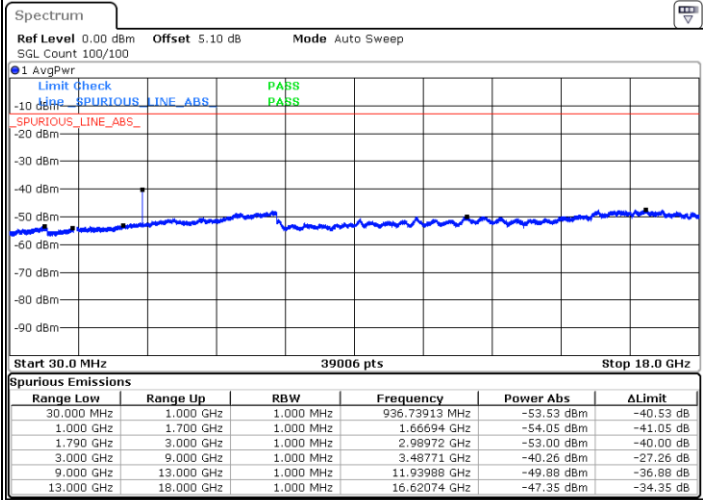
## LTE Band 66 / 3MHz

## Middle Channel / QPSK



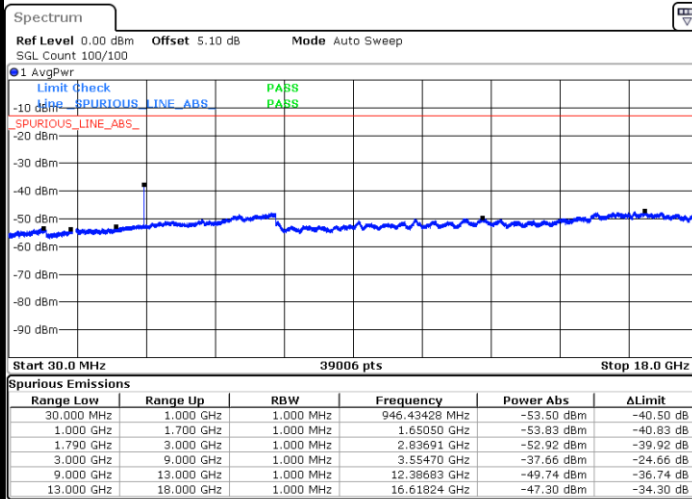
Date: 11.MAY.2018 19:18:45

## Middle Channel / 16QAM



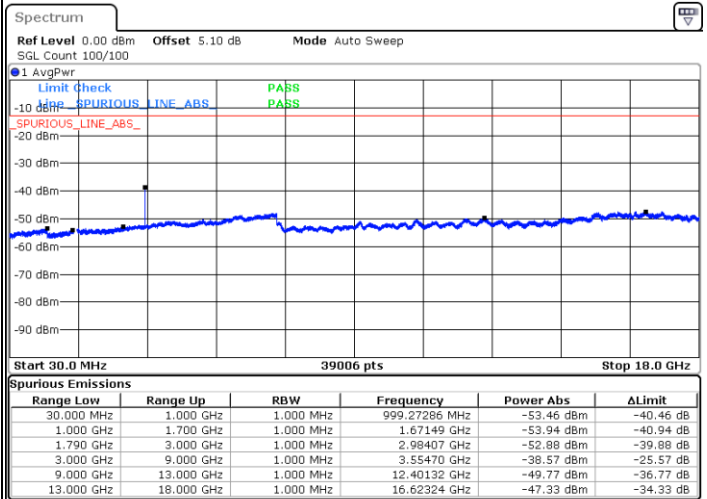
Date: 11.MAY.2018 19:19:22

## Highest Channel / QPSK



Date: 11.MAY.2018 19:26:46

## Highest Channel / 16QAM

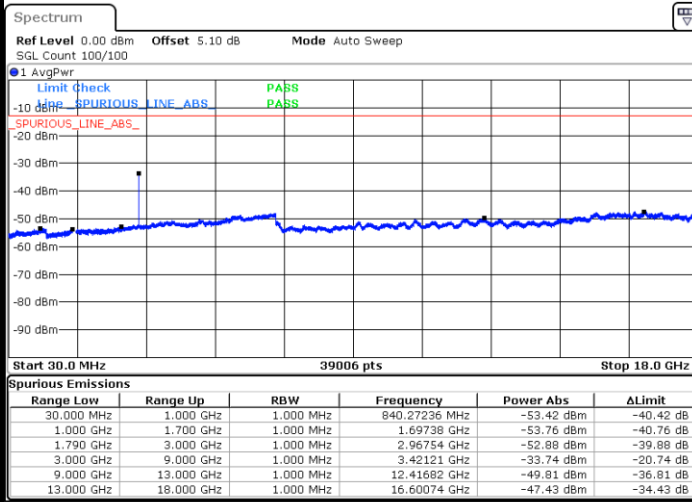


Date: 11.MAY.2018 19:25:52



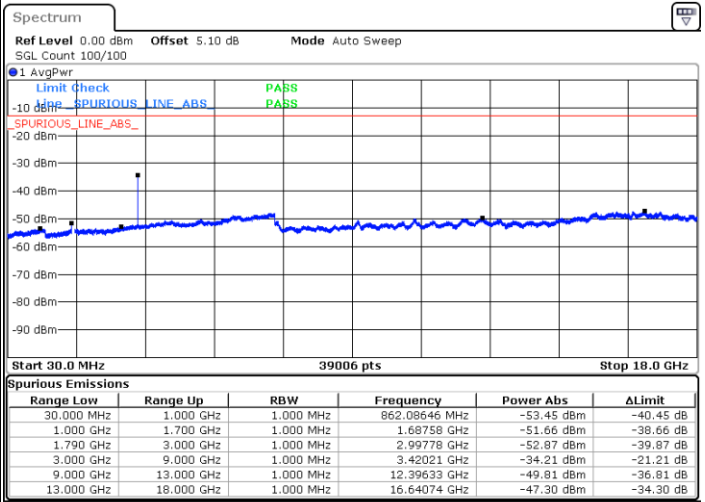
## LTE Band 66 / 5MHz

## Lowest Channel / QPSK



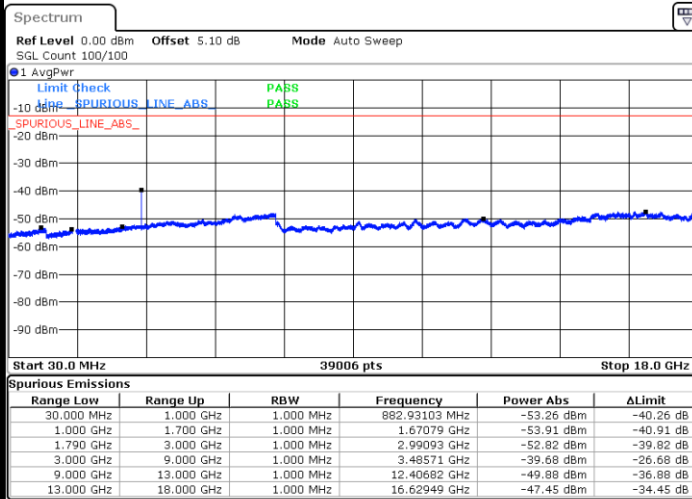
Date: 11.MAY.2018 19:36:21

## Lowest Channel / 16QAM



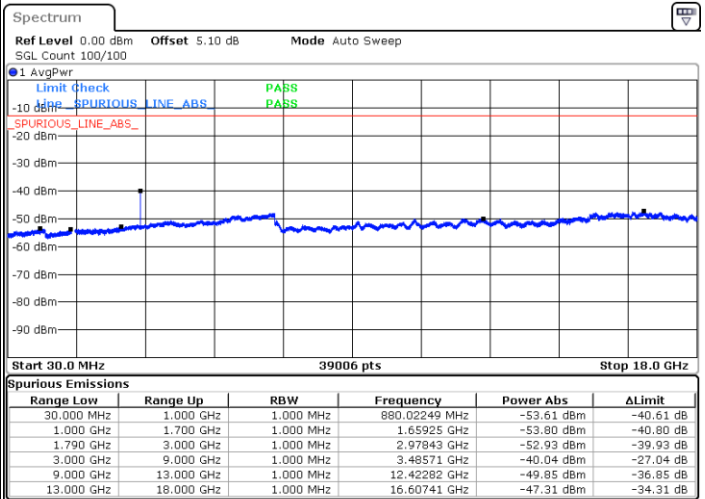
Date: 11.MAY.2018 19:34:30

## Middle Channel / QPSK



Date: 11.MAY.2018 19:37:20

## Middle Channel / 16QAM

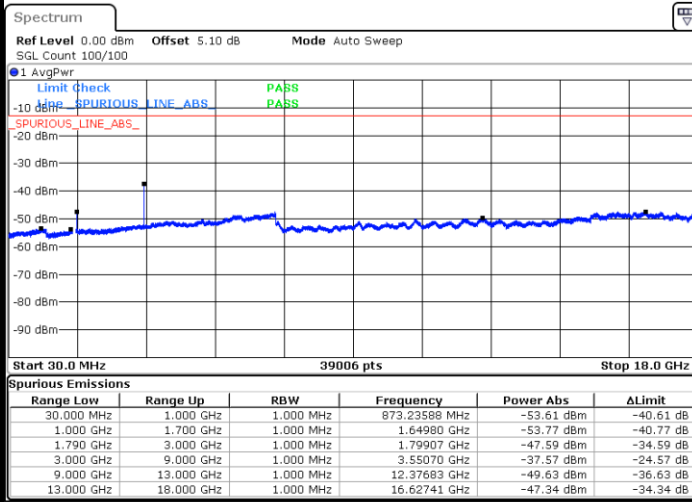


Date: 11.MAY.2018 19:37:57



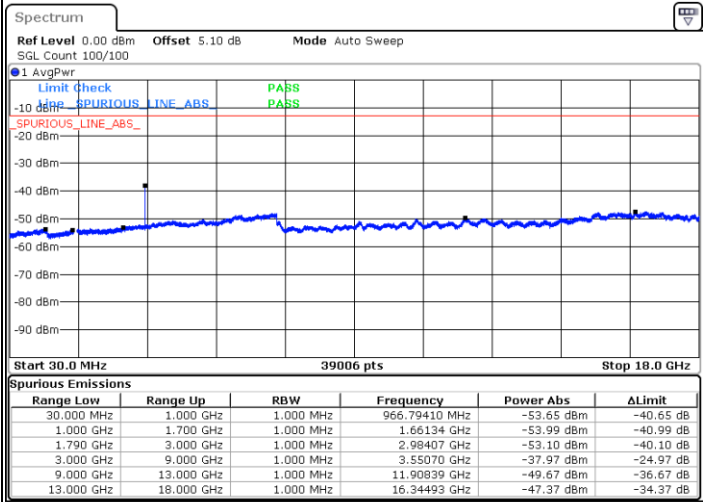
## LTE Band 66 / 5MHz

## Highest Channel / QPSK



Date: 11.MAY.2018 19:42:44

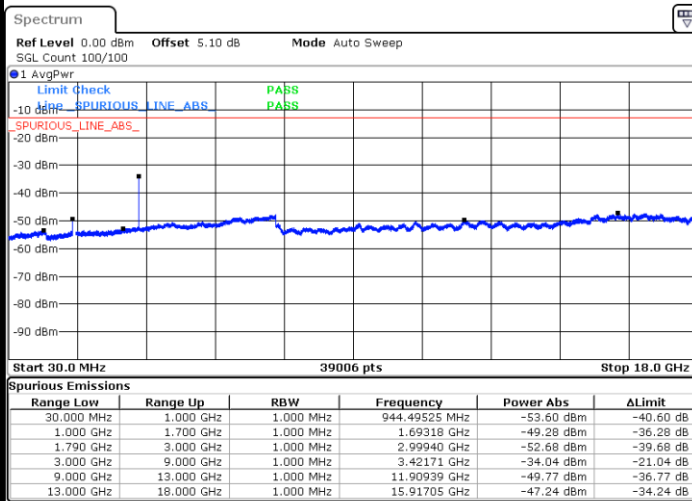
## Highest Channel / 16QAM



Date: 11.MAY.2018 19:42:03

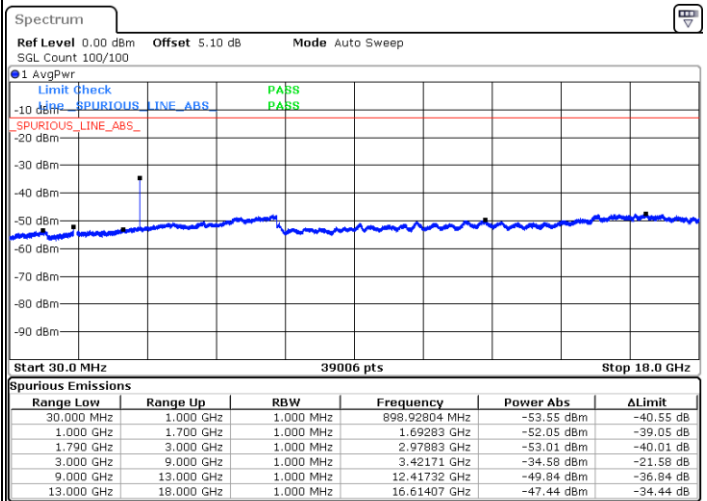
## LTE Band 66 / 10MHz

## Lowest Channel / QPSK



Date: 11.MAY.2018 19:47:44

## Lowest Channel / 16QAM

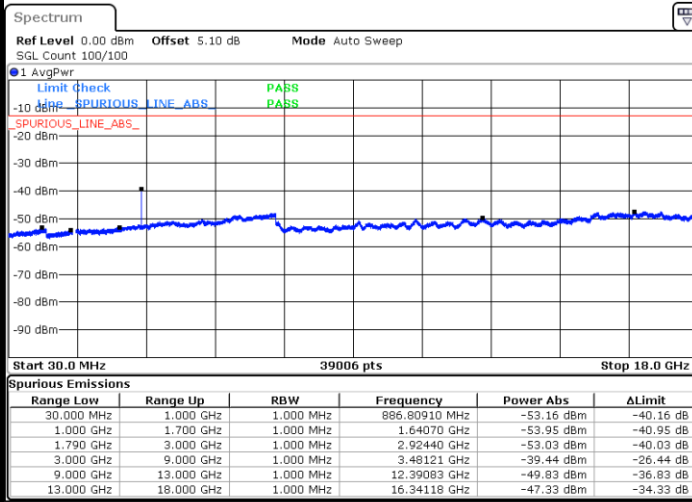


Date: 11.MAY.2018 19:47:03



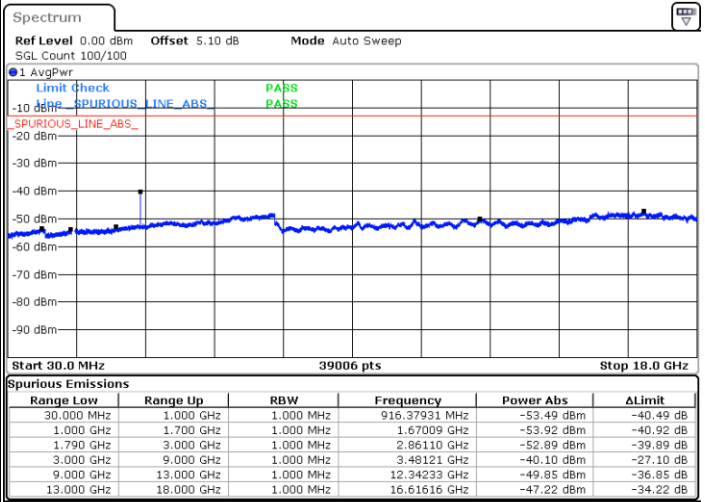
## LTE Band 66 / 10MHz

## Middle Channel / QPSK



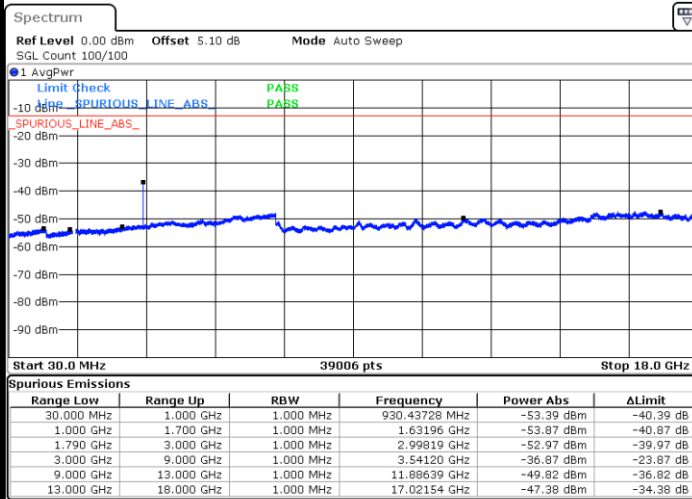
Date: 11.MAY.2018 19:48:29

## Middle Channel / 16QAM



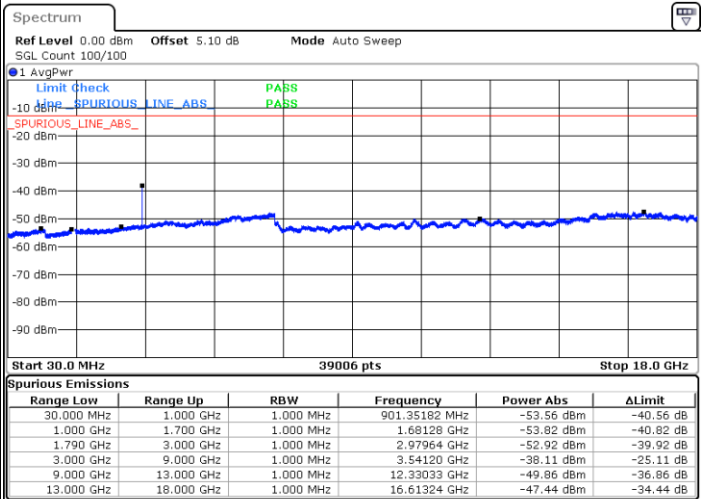
Date: 11.MAY.2018 19:49:20

## Highest Channel / QPSK



Date: 11.MAY.2018 19:53:29

## Highest Channel / 16QAM

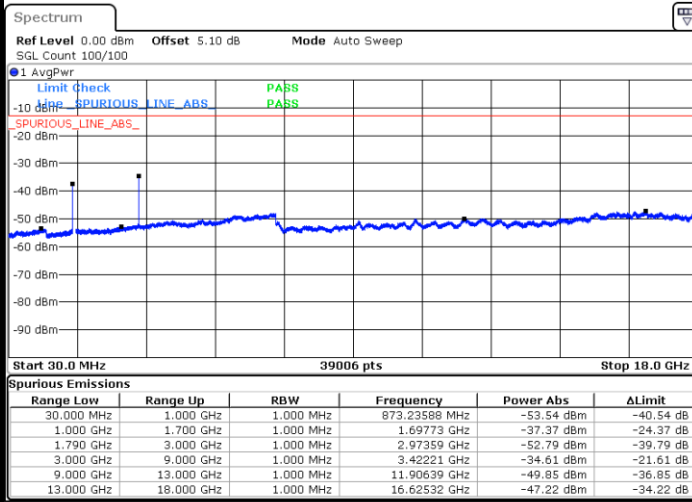


Date: 11.MAY.2018 19:52:51



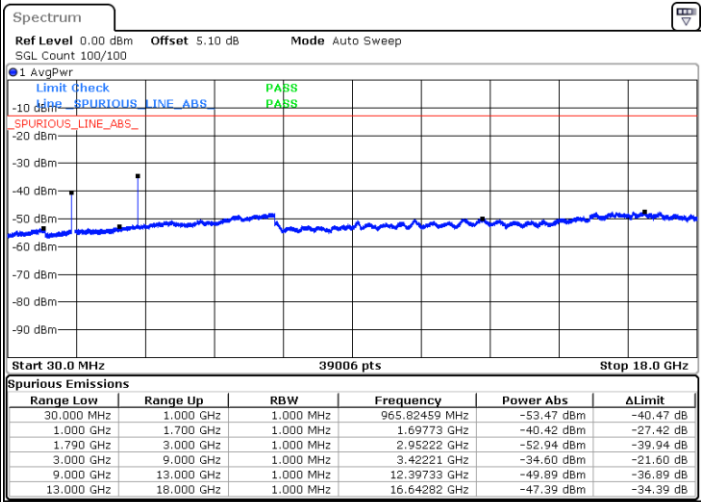
## LTE Band 66 / 15MHz

## Lowest Channel / QPSK



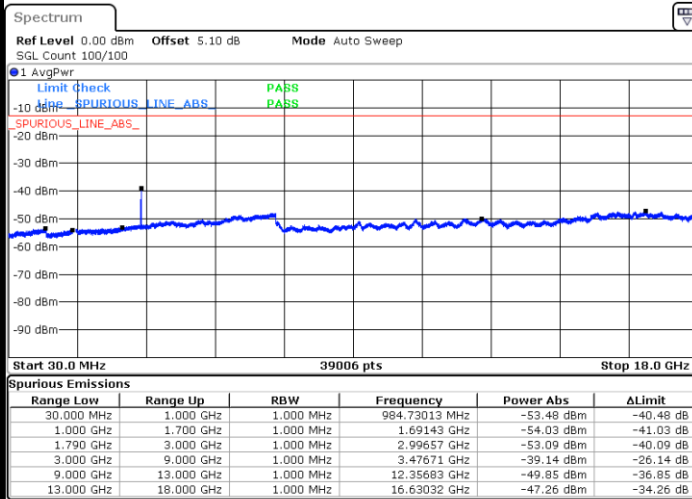
Date: 11.MAY.2018 19:58:14

## Lowest Channel / 16QAM



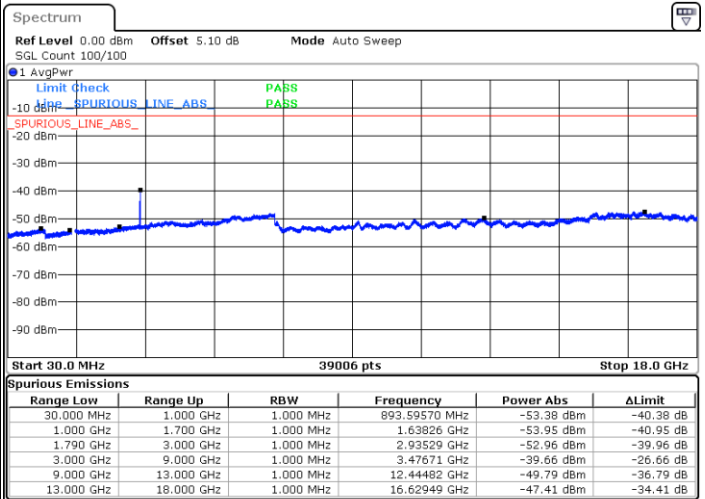
Date: 11.MAY.2018 19:57:35

## Middle Channel / QPSK



Date: 11.MAY.2018 19:59:18

## Middle Channel / 16QAM

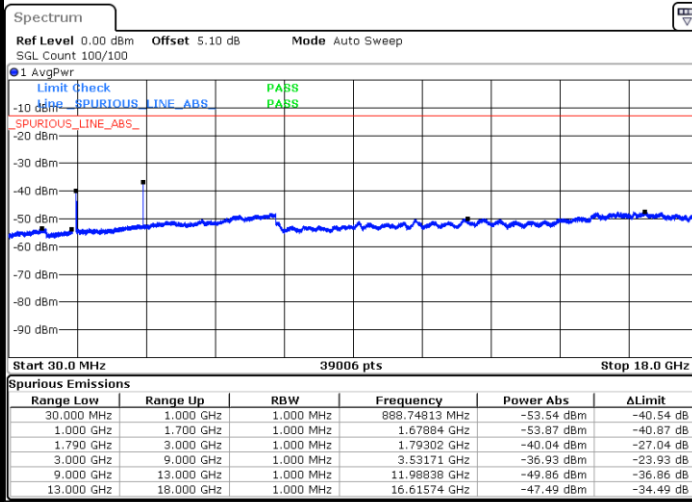


Date: 11.MAY.2018 19:59:54



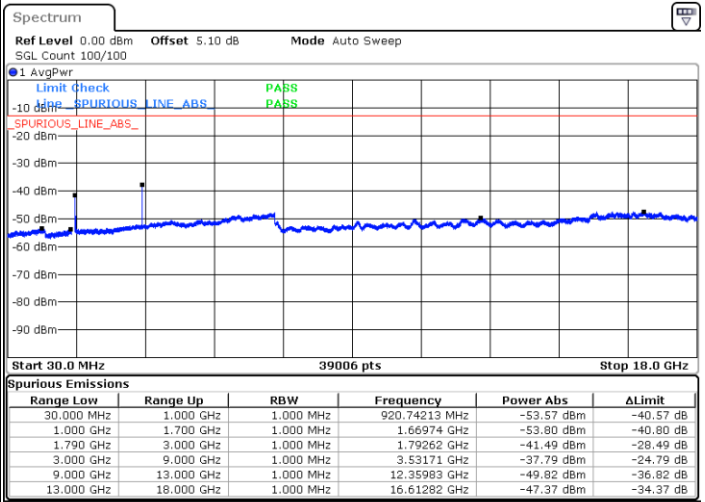
## LTE Band 66 / 15MHz

## Highest Channel / QPSK



Date: 11.MAY.2018 20:04:55

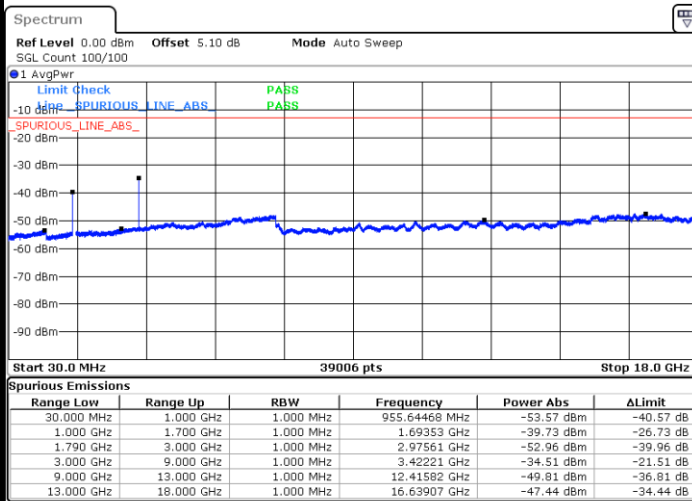
## Highest Channel / 16QAM



Date: 11.MAY.2018 20:04:12

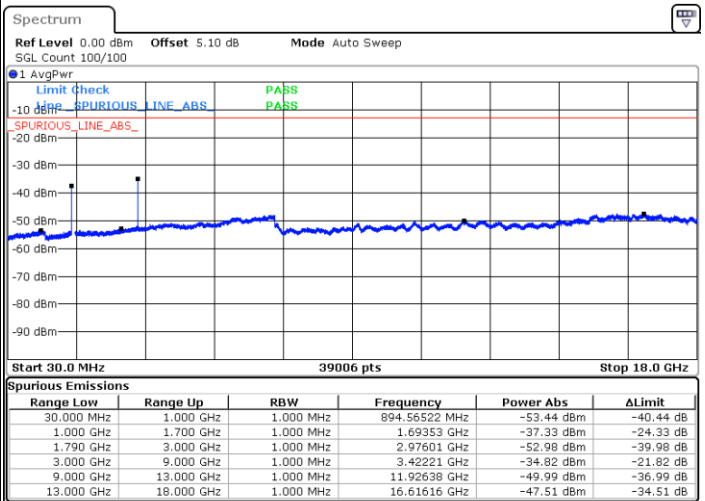
## LTE Band 66 / 20MHz

## Lowest Channel / QPSK



Date: 11.MAY.2018 20:09:53

## Lowest Channel / 16QAM

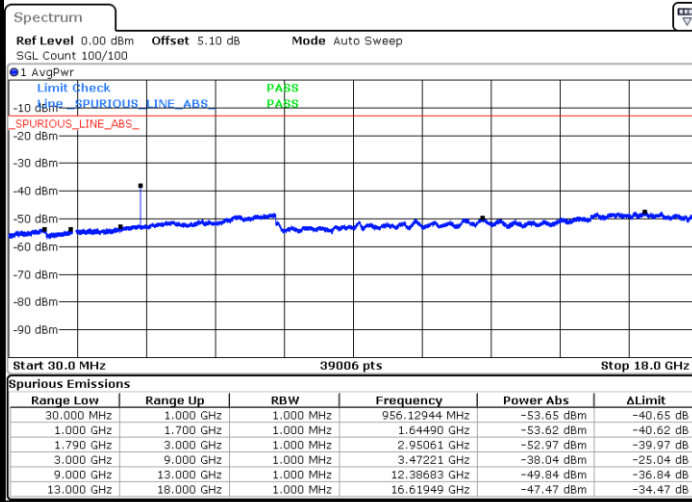


Date: 11.MAY.2018 20:09:12



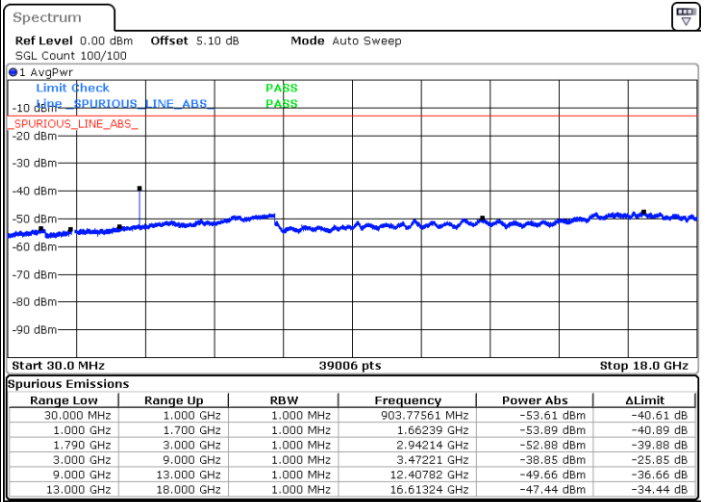
## LTE Band 66 / 20MHz

## Middle Channel / QPSK



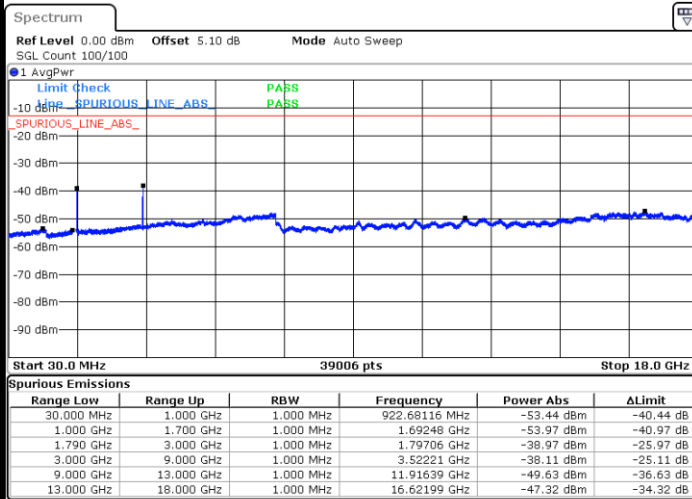
Date: 11.MAY.2018 20:10:56

## Middle Channel / 16QAM



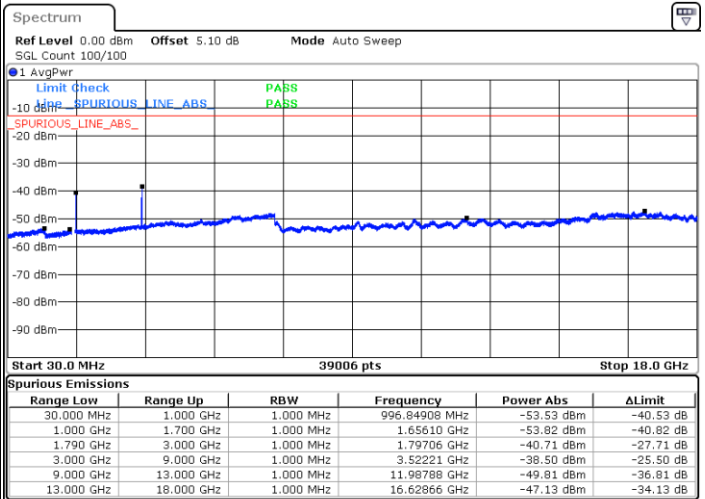
Date: 11.MAY.2018 20:11:36

## Highest Channel / QPSK



Date: 11.MAY.2018 20:16:18

## Highest Channel / 16QAM



Date: 11.MAY.2018 20:15:35

**Frequency Stability**

| Test Conditions  |                   | LTE Band 2 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0004                             | PASS    |
| 40               | Normal Voltage    | 0.0022                             |         |
| 30               | Normal Voltage    | 0.0018                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0034                             |         |
| 0                | Normal Voltage    | 0.0022                             |         |
| -10              | Normal Voltage    | 0.0003                             |         |
| -20              | Normal Voltage    | 0.0020                             |         |
| -30              | Normal Voltage    | 0.0003                             |         |
| 20               | Maximum Voltage   | 0.0002                             |         |
| 20               | Normal Voltage    | 0.0005                             |         |
| 20               | Battery End Point | 0.0019                             |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | 2.5ppm |
|                  |                   | Deviation (ppm)                    | Result |
| 50               | Normal Voltage    | 0.0056                             | PASS   |
| 40               | Normal Voltage    | 0.0063                             |        |
| 30               | Normal Voltage    | 0.0026                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0054                             |        |
| 0                | Normal Voltage    | 0.0059                             |        |
| -10              | Normal Voltage    | 0.0056                             |        |
| -20              | Normal Voltage    | 0.0018                             |        |
| -30              | Normal Voltage    | 0.0044                             |        |
| 20               | Maximum Voltage   | 0.0023                             |        |
| 20               | Normal Voltage    | 0.0050                             |        |
| 20               | Battery End Point | 0.0007                             |        |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0013                             | PASS    |
| 40               | Normal Voltage    | 0.0008                             |         |
| 30               | Normal Voltage    | 0.0003                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0007                             |         |
| 0                | Normal Voltage    | 0.0006                             |         |
| -10              | Normal Voltage    | 0.0011                             |         |
| -20              | Normal Voltage    | 0.0002                             |         |
| -30              | Normal Voltage    | 0.0002                             |         |
| 20               | Maximum Voltage   | 0.0009                             |         |
| 20               | Normal Voltage    | 0.0006                             |         |
| 20               | Battery End Point | 0.0005                             |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 12 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0007                              | PASS    |
| 40               | Normal Voltage    | 0.0003                              |         |
| 30               | Normal Voltage    | 0.0037                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0030                              |         |
| 0                | Normal Voltage    | 0.0048                              |         |
| -10              | Normal Voltage    | 0.0011                              |         |
| -20              | Normal Voltage    | 0.0042                              |         |
| -30              | Normal Voltage    | 0.0055                              |         |
| 20               | Maximum Voltage   | 0.0001                              |         |
| 20               | Normal Voltage    | 0.0017                              |         |
| 20               | Battery End Point | 0.0041                              |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 13 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0009                              | PASS    |
| 40               | Normal Voltage    | 0.0010                              |         |
| 30               | Normal Voltage    | 0.0056                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0061                              |         |
| 0                | Normal Voltage    | 0.0017                              |         |
| -10              | Normal Voltage    | 0.0009                              |         |
| -20              | Normal Voltage    | 0.0014                              |         |
| -30              | Normal Voltage    | 0.0015                              |         |
| 20               | Maximum Voltage   | 0.0065                              |         |
| 20               | Normal Voltage    | 0.0014                              |         |
| 20               | Battery End Point | 0.0006                              |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: 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    | 0.0020                              | PASS    |
| 40               | Normal Voltage    | 0.0017                              |         |
| 30               | Normal Voltage    | 0.0023                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0017                              |         |
| 0                | Normal Voltage    | 0.0021                              |         |
| -10              | Normal Voltage    | 0.0024                              |         |
| -20              | Normal Voltage    | 0.0000                              |         |
| -30              | Normal Voltage    | 0.0014                              |         |
| 20               | Maximum Voltage   | 0.0007                              |         |
| 20               | Normal Voltage    | 0.0025                              |         |
| 20               | Battery End Point | 0.0016                              |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 66 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0006                              | PASS    |
| 40               | Normal Voltage    | 0.0025                              |         |
| 30               | Normal Voltage    | 0.0005                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0032                              |         |
| 0                | Normal Voltage    | 0.0009                              |         |
| -10              | Normal Voltage    | 0.0011                              |         |
| -20              | Normal Voltage    | 0.0026                              |         |
| -30              | Normal Voltage    | 0.0003                              |         |
| 20               | Maximum Voltage   | 0.0029                              |         |
| 20               | Normal Voltage    | 0.0002                              |         |
| 20               | Battery End Point | 0.0007                              |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 2 / 20MHz / QPSK |                      |                 |                  |                         |                          |                            |                               |                         |
|---------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-------------------------------|-------------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>( dBi ) | Polarization<br>( H/V ) |
| Lowest                    | 3702                 | -55.56          | -13              | -42.56                  | -57.28                   | 5.08                       | 6.80                          | H                       |
|                           | 5553                 | -45.51          | -13              | -32.51                  | -47.18                   | 8.03                       | 9.70                          | H                       |
|                           | 7404                 | -49.84          | -13              | -36.84                  | -52.22                   | 9.43                       | 11.81                         | H                       |
|                           | 3702                 | -54.77          | -13              | -41.77                  | -56.49                   | 5.08                       | 6.80                          | V                       |
|                           | 5553                 | -47.04          | -13              | -34.04                  | -48.71                   | 8.03                       | 9.70                          | V                       |
|                           | 7404                 | -50.03          | -13              | -37.03                  | -52.41                   | 9.43                       | 11.81                         | V                       |
| Middle                    | 3741                 | -54.49          | -13              | -41.49                  | -56.21                   | 5.08                       | 6.80                          | H                       |
|                           | 5613                 | -40.61          | -13              | -27.61                  | -42.28                   | 8.03                       | 9.70                          | H                       |
|                           | 7485                 | -48.72          | -13              | -35.72                  | -51.10                   | 9.43                       | 11.81                         | H                       |
|                           | 3741                 | -53.92          | -13              | -40.92                  | -55.64                   | 5.08                       | 6.80                          | V                       |
|                           | 5613                 | -44.72          | -13              | -31.72                  | -46.39                   | 8.03                       | 9.70                          | V                       |
|                           | 7485                 | -49.30          | -13              | -36.30                  | -51.68                   | 9.43                       | 11.81                         | V                       |
| Highest                   | 3783                 | -55.32          | -13              | -42.32                  | -57.04                   | 5.08                       | 6.80                          | H                       |
|                           | 5673                 | -40.17          | -13              | -27.17                  | -41.84                   | 8.03                       | 9.70                          | H                       |
|                           | 7563                 | -48.52          | -13              | -35.52                  | -50.90                   | 9.43                       | 11.81                         | H                       |
|                           | 3783                 | -54.10          | -13              | -41.10                  | -55.82                   | 5.08                       | 6.80                          | V                       |
|                           | 5673                 | -44.98          | -13              | -31.98                  | -46.65                   | 8.03                       | 9.70                          | V                       |
|                           | 7563                 | -48.92          | -13              | -35.92                  | -51.30                   | 9.43                       | 11.81                         | V                       |

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



| LTE Band 5 / 10MHz / QPSK |                      |                |                  |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1650                 | -58.17         | -13              | -45.17                  | -60.08                   | 1.14                       | 5.20                        | H                     |
|                           | 2474                 | -47.92         | -13              | -34.92                  | -50.55                   | 1.12                       | 5.90                        | H                     |
|                           | 3297                 | -58.65         | -13              | -45.65                  | -61.86                   | 1.34                       | 6.70                        | H                     |
|                           | 1650                 | -55.22         | -13              | -42.22                  | -57.13                   | 1.14                       | 5.20                        | V                     |
|                           | 2474                 | -46.17         | -13              | -33.17                  | -48.80                   | 1.12                       | 5.90                        | V                     |
|                           | 3297                 | -58.42         | -13              | -45.42                  | -61.63                   | 1.34                       | 6.70                        | V                     |
| Middle                    | 1664                 | -52.22         | -13              | -39.22                  | -54.13                   | 1.14                       | 5.20                        | H                     |
|                           | 2496                 | -39.03         | -13              | -26.03                  | -41.66                   | 1.12                       | 5.90                        | H                     |
|                           | 3327                 | -58.83         | -13              | -45.83                  | -62.04                   | 1.34                       | 6.70                        | H                     |
|                           | 1664                 | -49.68         | -13              | -36.68                  | -51.59                   | 1.14                       | 5.20                        | V                     |
|                           | 2496                 | -35.45         | -13              | -22.45                  | -38.08                   | 1.12                       | 5.90                        | V                     |
|                           | 3327                 | -58.39         | -13              | -45.39                  | -61.60                   | 1.34                       | 6.70                        | V                     |
| Highest                   | 1680                 | -57.17         | -13              | -44.17                  | -59.08                   | 1.14                       | 5.20                        | H                     |
|                           | 2518                 | -48.74         | -13              | -35.74                  | -51.37                   | 1.12                       | 5.90                        | H                     |
|                           | 3357                 | -58.71         | -13              | -45.71                  | -61.92                   | 1.34                       | 6.70                        | H                     |
|                           | 1680                 | -54.33         | -13              | -41.33                  | -56.24                   | 1.14                       | 5.20                        | V                     |
|                           | 2518                 | -44.97         | -13              | -31.97                  | -47.60                   | 1.12                       | 5.90                        | V                     |
|                           | 3357                 | -58.49         | -13              | -45.49                  | -61.70                   | 1.34                       | 6.70                        | V                     |

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



| LTE Band 7 / 20MHz / QPSK |                      |                 |                  |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 5000                 | -47.68          | -25              | -22.68                  | -54.12                   | 2.34                       | 8.78                        | H                     |
|                           | 7505                 | -50.46          | -25              | -25.46                  | -59.67                   | 2.66                       | 11.87                       | H                     |
|                           | 10008                | -49.29          | -25              | -24.29                  | -58.31                   | 2.99                       | 12.01                       | H                     |
|                           | 12501                | -52.96          | -25              | -27.96                  | -61.89                   | 3.98                       | 12.91                       | H                     |
|                           | 5000                 | -50.49          | -25              | -25.49                  | -56.93                   | 2.34                       | 8.78                        | V                     |
|                           | 7505                 | -51.41          | -25              | -26.41                  | -60.62                   | 2.66                       | 11.87                       | V                     |
|                           | 10008                | -53.20          | -25              | -28.20                  | -62.22                   | 2.99                       | 12.01                       | V                     |
|                           | 12501                | -55.31          | -25              | -30.31                  | -64.24                   | 3.98                       | 12.91                       | V                     |
| Middle                    | 5052                 | -46.97          | -25              | -21.97                  | -53.41                   | 2.34                       | 8.78                        | H                     |
|                           | 7580                 | -50.80          | -25              | -25.80                  | -60.01                   | 2.66                       | 11.87                       | H                     |
|                           | 10107                | -56.74          | -25              | -31.74                  | -65.76                   | 2.99                       | 12.01                       | H                     |
|                           | 12627                | -51.33          | -25              | -26.33                  | -60.26                   | 3.98                       | 12.91                       | H                     |
|                           | 5052                 | -52.21          | -25              | -27.21                  | -58.65                   | 2.34                       | 8.78                        | V                     |
|                           | 7580                 | -50.55          | -25              | -25.55                  | -59.76                   | 2.66                       | 11.87                       | V                     |
|                           | 10107                | -55.70          | -25              | -30.70                  | -64.72                   | 2.99                       | 12.01                       | V                     |
|                           | 12627                | -53.81          | -25              | -28.81                  | -62.74                   | 3.98                       | 12.91                       | V                     |
| Highest                   | 5104                 | -47.48          | -25              | -22.48                  | -53.92                   | 2.34                       | 8.78                        | H                     |
|                           | 7652                 | -54.05          | -25              | -29.05                  | -63.26                   | 2.66                       | 11.87                       | H                     |
|                           | 10206                | -55.13          | -25              | -30.13                  | -64.15                   | 2.99                       | 12.01                       | H                     |
|                           | 12753                | -53.95          | -25              | -28.95                  | -62.88                   | 3.98                       | 12.91                       | H                     |
|                           | 5104                 | -53.14          | -25              | -28.14                  | -59.58                   | 2.34                       | 8.78                        | V                     |
|                           | 7652                 | -53.18          | -25              | -28.18                  | -62.39                   | 2.66                       | 11.87                       | V                     |
|                           | 10206                | -56.69          | -25              | -31.69                  | -65.71                   | 2.99                       | 12.01                       | V                     |
|                           | 12753                | -55.62          | -25              | -30.62                  | -64.55                   | 3.98                       | 12.91                       | V                     |

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



| LTE Band 12 / 10MHz / QPSK |                      |                |                  |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1400                 | -62.56         | -13              | -49.56                  | -64.54                   | 1.00                       | 5.12                        | H                     |
|                            | 2098                 | -45.27         | -13              | -32.27                  | -48.50                   | 1.24                       | 6.62                        | H                     |
|                            | 2798                 | -59.34         | -13              | -46.34                  | -63.23                   | 1.42                       | 7.46                        | H                     |
|                            | 1400                 | -60.12         | -13              | -47.12                  | -62.10                   | 1.00                       | 5.12                        | V                     |
|                            | 2098                 | -44.30         | -13              | -31.30                  | -47.53                   | 1.24                       | 6.62                        | V                     |
|                            | 2798                 | -58.76         | -13              | -45.76                  | -62.65                   | 1.42                       | 7.46                        | V                     |
| Middle                     | 1406                 | -54.84         | -13              | -41.84                  | -56.82                   | 1.00                       | 5.12                        | H                     |
|                            | 2110                 | -38.46         | -13              | -25.46                  | -41.69                   | 1.24                       | 6.62                        | H                     |
|                            | 2812                 | -59.10         | -13              | -46.10                  | -62.99                   | 1.42                       | 7.46                        | H                     |
|                            | 1406                 | -53.64         | -13              | -40.64                  | -55.62                   | 1.00                       | 5.12                        | V                     |
|                            | 2110                 | -40.15         | -13              | -27.15                  | -43.38                   | 1.24                       | 6.62                        | V                     |
|                            | 2812                 | -58.69         | -13              | -45.69                  | -62.58                   | 1.42                       | 7.46                        | V                     |
| Highest                    | 1412                 | -58.66         | -13              | -45.66                  | -60.64                   | 1.00                       | 5.12                        | H                     |
|                            | 2120                 | -43.91         | -13              | -30.91                  | -47.14                   | 1.24                       | 6.62                        | H                     |
|                            | 2826                 | -58.76         | -13              | -45.76                  | -62.65                   | 1.42                       | 7.46                        | H                     |
|                            | 1414                 | -55.99         | -13              | -42.99                  | -57.97                   | 1.00                       | 5.12                        | V                     |
|                            | 2120                 | -43.89         | -13              | -30.89                  | -47.12                   | 1.24                       | 6.62                        | V                     |
|                            | 2826                 | -58.26         | -13              | -45.26                  | -62.15                   | 1.42                       | 7.46                        | V                     |

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



| LTE Band 13 / 5MHz / QPSK |                   |             |               |                   |                    |                      |                       |                    |
|---------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                    | 1554              | -51.32      | -13           | -38.32            | -55.44             | 1.00                 | 5.12                  | H                  |
|                           | 2332              | -56.45      | -13           | -43.45            | -59.68             | 1.24                 | 6.62                  | H                  |
|                           | 3108              | -60.63      | -13           | -47.63            | -64.52             | 1.42                 | 7.46                  | H                  |
|                           | 1554              | -57.33      | -13           | -44.33            | -61.45             | 1.00                 | 5.12                  | V                  |
|                           | 2332              | -49.92      | -13           | -36.92            | -53.15             | 1.24                 | 6.62                  | V                  |
|                           | 3108              | -60.24      | -13           | -47.24            | -64.13             | 1.42                 | 7.46                  | V                  |
| Middle                    | 1560              | -51.94      | -40           | -11.94            | -56.06             | 1.00                 | 5.12                  | H                  |
|                           | 2340              | -41.09      | -13           | -28.09            | -44.32             | 1.24                 | 6.62                  | H                  |
|                           | 3120              | -60.68      | -13           | -47.68            | -64.57             | 1.42                 | 7.46                  | H                  |
|                           | 1560              | -52.54      | -40           | -12.54            | -56.66             | 1.00                 | 5.12                  | V                  |
|                           | 2340              | -42.46      | -13           | -29.46            | -45.69             | 1.24                 | 6.62                  | V                  |
|                           | 3120              | -60.16      | -13           | -47.16            | -64.05             | 1.42                 | 7.46                  | V                  |
| Highest                   | 1564              | -49.33      | -40           | -9.33             | -53.45             | 1.00                 | 5.12                  | H                  |
|                           | 2346              | -50.05      | -13           | -37.05            | -53.28             | 1.24                 | 6.62                  | H                  |
|                           | 3129              | -60.00      | -13           | -47.00            | -63.89             | 1.42                 | 7.46                  | H                  |
|                           | 1564              | -57.37      | -40           | -17.37            | -61.49             | 1.00                 | 5.12                  | V                  |
|                           | 2348              | -56.18      | -13           | -43.18            | -59.41             | 1.24                 | 6.62                  | V                  |
|                           | 3129              | -59.55      | -13           | -46.55            | -63.44             | 1.42                 | 7.46                  | V                  |

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

| LTE Band 13 / 10MHz / QPSK |                   |             |               |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 1556              | -48.22      | -13           | -35.22            | -50.19             | 1.00                 | 5.12                  | H                  |
|                            | 2332              | -48.76      | -13           | -35.76            | -51.99             | 1.24                 | 6.62                  | H                  |
|                            | 3111              | -59.26      | -13           | -46.26            | -63.15             | 1.42                 | 7.46                  | H                  |
|                            | 1556              | -55.08      | -13           | -42.08            | -57.05             | 1.00                 | 5.12                  | V                  |
|                            | 2332              | -54.73      | -13           | -41.73            | -57.96             | 1.24                 | 6.62                  | V                  |
|                            | 3111              | -59.38      | -13           | -46.38            | -63.27             | 1.42                 | 7.46                  | V                  |

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



| LTE Band 38 / 20MHz / QPSK |                      |                 |                  |                         |                          |                            |                               |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-------------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>( dBi ) | Polarization<br>(H/V) |
| Lowest                     | 5140                 | -41.72          | -25              | -16.72                  | -48.43                   | 2.37                       | 9.08                          | H                     |
|                            | 7712                 | -50.01          | -25              | -25.01                  | -59.60                   | 2.69                       | 12.28                         | H                     |
|                            | 10287                | -51.47          | -25              | -26.47                  | -60.64                   | 3.04                       | 12.21                         | H                     |
|                            | 12852                | -52.63          | -25              | -27.63                  | -61.43                   | 4.02                       | 12.82                         | H                     |
|                            | 5140                 | -45.95          | -25              | -20.95                  | -52.66                   | 2.37                       | 9.08                          | V                     |
|                            | 7712                 | -49.10          | -25              | -24.10                  | -58.69                   | 2.69                       | 12.28                         | V                     |
|                            | 10287                | -53.10          | -25              | -28.10                  | -62.27                   | 3.04                       | 12.21                         | V                     |
|                            | 12852                | -54.63          | -25              | -29.63                  | -63.43                   | 4.02                       | 12.82                         | V                     |
| Middle                     | 5172                 | -43.63          | -25              | -18.63                  | -50.34                   | 2.37                       | 9.08                          | H                     |
|                            | 7760                 | -52.95          | -25              | -27.95                  | -62.54                   | 2.69                       | 12.28                         | H                     |
|                            | 10341                | -53.91          | -25              | -28.91                  | -63.08                   | 3.04                       | 12.21                         | H                     |
|                            | 12933                | -53.54          | -25              | -28.54                  | -62.34                   | 4.02                       | 12.82                         | H                     |
|                            | 5172                 | -49.85          | -25              | -24.85                  | -56.56                   | 2.37                       | 9.08                          | V                     |
|                            | 7760                 | -54.63          | -25              | -29.63                  | -64.22                   | 2.69                       | 12.28                         | V                     |
|                            | 10341                | -53.30          | -25              | -28.30                  | -62.47                   | 3.04                       | 12.21                         | V                     |
|                            | 12930                | -56.04          | -25              | -31.04                  | -64.84                   | 4.02                       | 12.82                         | V                     |
| Highest                    | 5200                 | -39.91          | -25              | -14.91                  | -46.62                   | 2.37                       | 9.08                          | H                     |
|                            | 7804                 | -46.16          | -25              | -21.16                  | -55.75                   | 2.69                       | 12.28                         | H                     |
|                            | 10404                | -53.94          | -25              | -28.94                  | -63.11                   | 3.04                       | 12.21                         | H                     |
|                            | 13005                | -49.20          | -25              | -24.20                  | -58.00                   | 4.02                       | 12.82                         | H                     |
|                            | 5200                 | -46.74          | -25              | -21.74                  | -53.45                   | 2.37                       | 9.08                          | V                     |
|                            | 7804                 | -48.62          | -25              | -23.62                  | -58.21                   | 2.69                       | 12.28                         | V                     |
|                            | 10404                | -53.98          | -25              | -28.98                  | -63.15                   | 3.04                       | 12.21                         | V                     |
|                            | 13005                | -54.32          | -25              | -29.32                  | -63.12                   | 4.02                       | 12.82                         | V                     |

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



| LTE Band 66 / 20MHz / QPSK |                      |                 |                  |                         |                          |                            |                              |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|------------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>( dBi) | Polarization<br>(H/V) |
| Lowest                     | 3423                 | -51.97          | -13              | -38.97                  | -57.54                   | 1.92                       | 7.49                         | H                     |
|                            | 5133                 | -49.41          | -13              | -36.41                  | -56.17                   | 2.37                       | 9.13                         | H                     |
|                            | 6843                 | -50.66          | -13              | -37.66                  | -59.49                   | 2.66                       | 11.49                        | H                     |
|                            | 3423                 | -49.05          | -13              | -36.05                  | -54.62                   | 1.92                       | 7.49                         | V                     |
|                            | 5133                 | -44.39          | -13              | -31.39                  | -51.15                   | 2.37                       | 9.13                         | V                     |
|                            | 6843                 | -50.92          | -13              | -37.92                  | -59.75                   | 2.66                       | 11.49                        | V                     |
| Middle                     | 3471                 | -49.53          | -13              | -36.53                  | -55.10                   | 1.92                       | 7.49                         | H                     |
|                            | 5208                 | -47.35          | -13              | -34.35                  | -54.11                   | 2.37                       | 9.13                         | H                     |
|                            | 6945                 | -51.02          | -13              | -38.02                  | -59.85                   | 2.66                       | 11.49                        | H                     |
|                            | 3471                 | -46.58          | -13              | -33.58                  | -52.15                   | 1.92                       | 7.49                         | V                     |
|                            | 5208                 | -42.87          | -13              | -29.87                  | -49.63                   | 2.37                       | 9.13                         | V                     |
|                            | 6945                 | -51.13          | -13              | -38.13                  | -59.96                   | 2.66                       | 11.49                        | V                     |
| Highest                    | 3522                 | -50.81          | -13              | -37.81                  | -56.38                   | 1.92                       | 7.49                         | H                     |
|                            | 5283                 | -42.18          | -13              | -29.18                  | -48.94                   | 2.37                       | 9.13                         | H                     |
|                            | 7044                 | -50.54          | -13              | -37.54                  | -59.37                   | 2.66                       | 11.49                        | H                     |
|                            | 3522                 | -46.49          | -13              | -33.49                  | -52.06                   | 1.92                       | 7.49                         | V                     |
|                            | 5283                 | -39.04          | -13              | -26.04                  | -45.80                   | 2.37                       | 9.13                         | V                     |
|                            | 7044                 | -50.74          | -13              | -37.74                  | -59.57                   | 2.66                       | 11.49                        | V                     |

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