

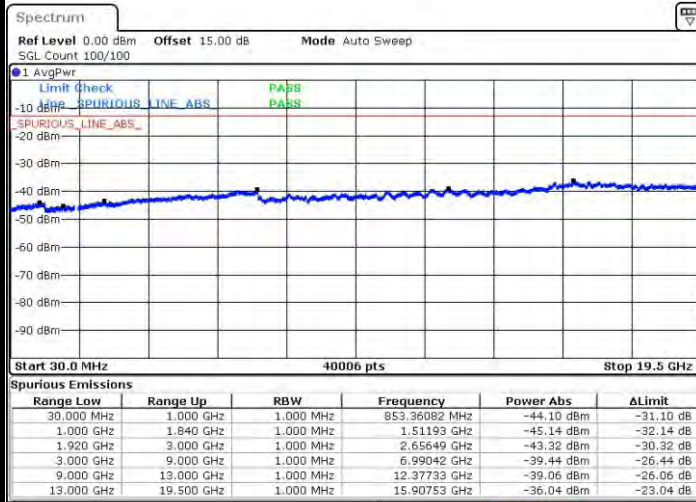


## **Conducted Spurious Emission**



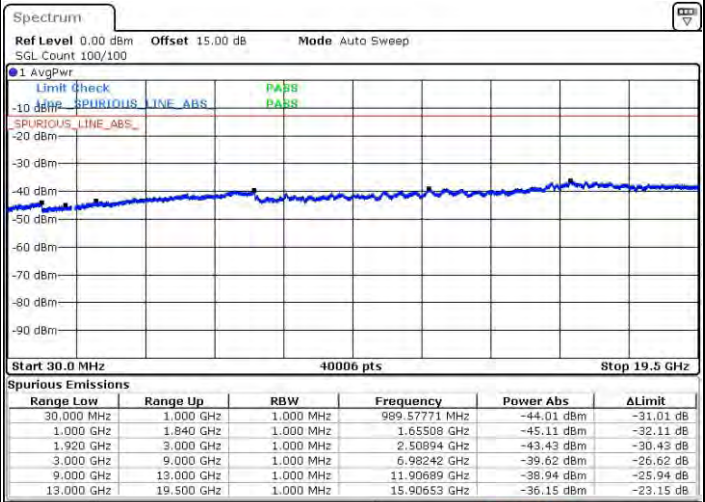
## LTE Band 2 / 1.4MHz

## Lowest Channel / QPSK



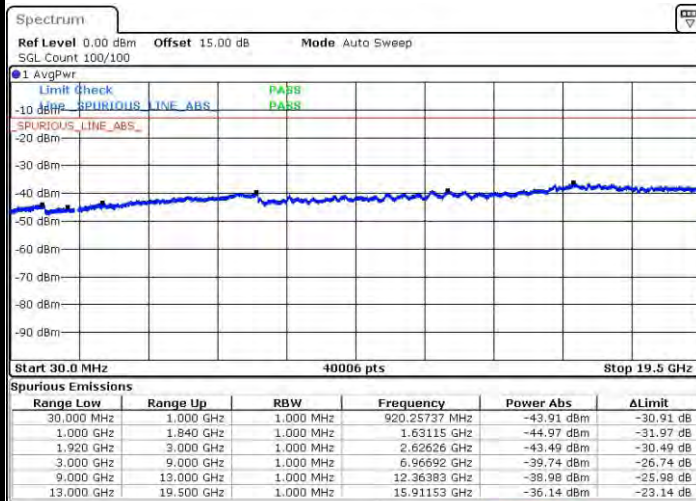
Date: 25 MAY 2015 10:37:11

## Lowest Channel / 16QAM



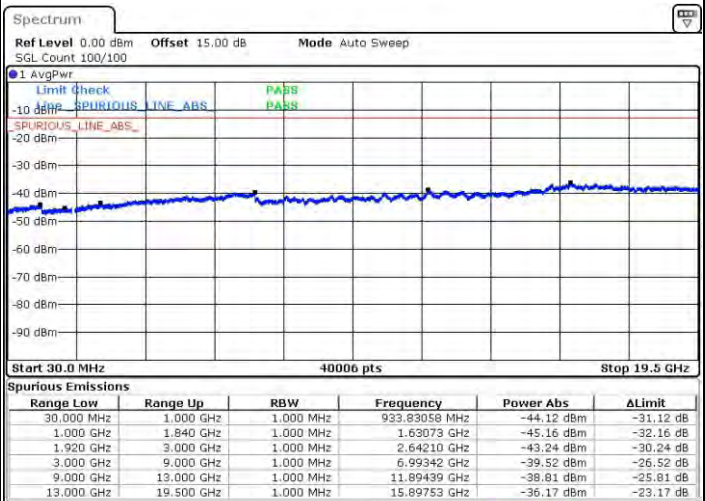
Date: 25 MAY 2015 10:38:20

## Middle Channel / QPSK



Date: 25 MAY 2015 10:40:17

## Middle Channel / 16QAM

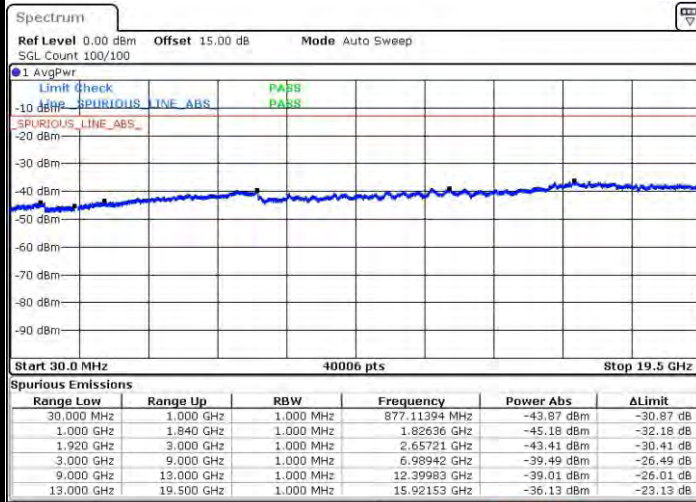


Date: 25 MAY 2015 10:41:26



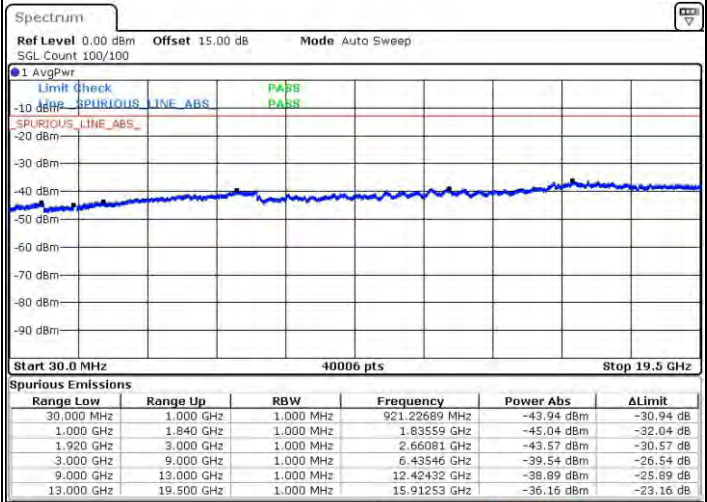
## LTE Band 2 / 1.4MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 10:48:05

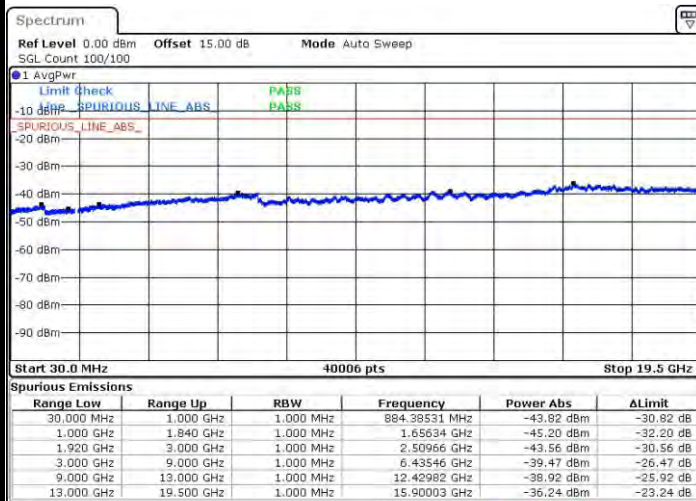
## Highest Channel / 16QAM



Date: 25 MAY 2015 10:49:16

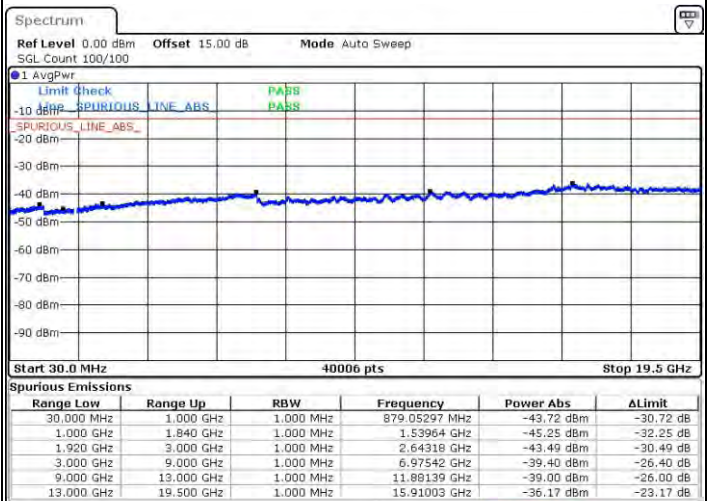
## LTE Band 2 / 3MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 10:55:54

## Lowest Channel / 16QAM

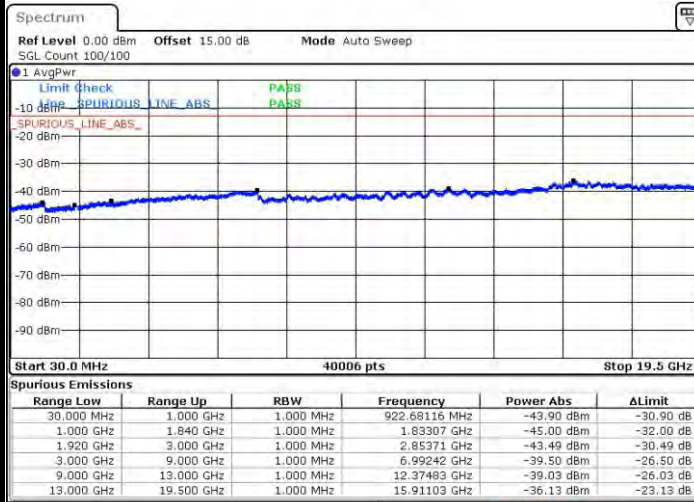


Date: 25 MAY 2015 10:57:03



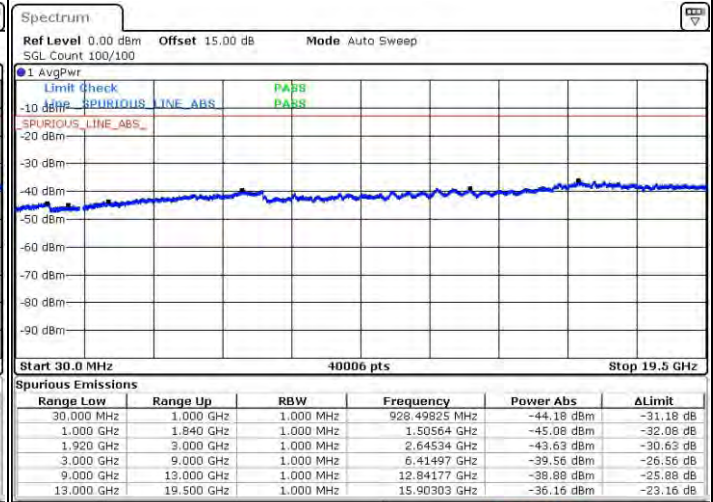
## LTE Band 2 / 3MHz

## Middle Channel / QPSK



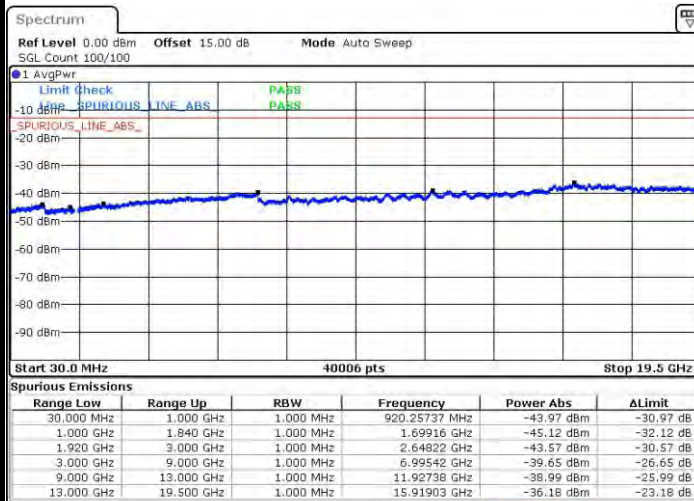
Date: 25 MAY 2015 10:59:00

## Middle Channel / 16QAM



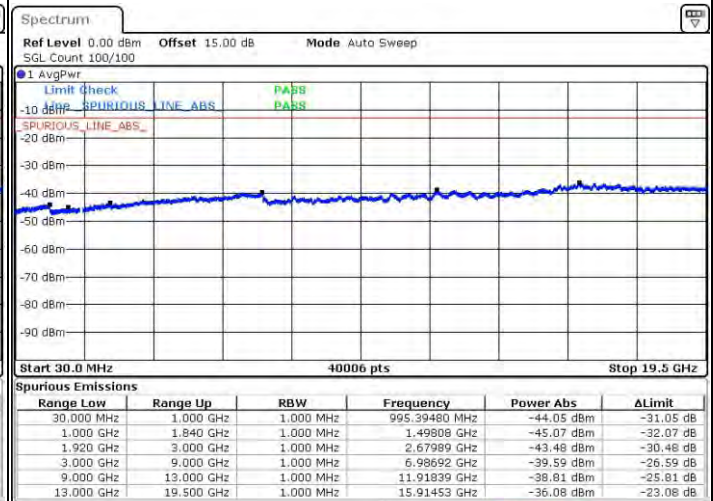
Date: 25 MAY 2015 11:00:09

## Highest Channel / QPSK



Date: 25 MAY 2015 11:06:43

## Highest Channel / 16QAM

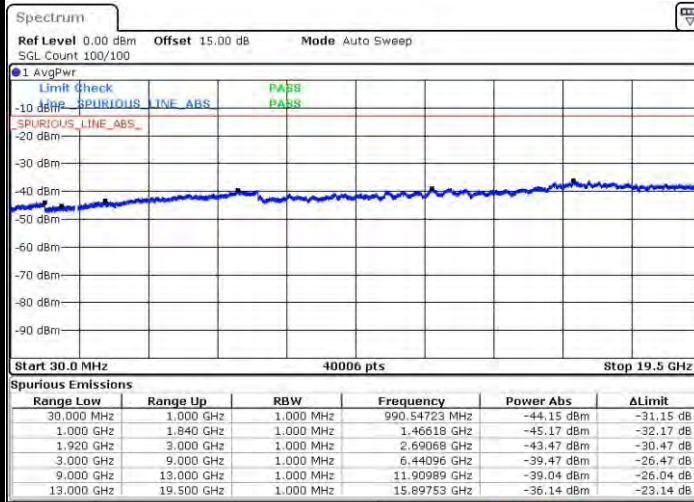


Date: 25 MAY 2015 11:07:52



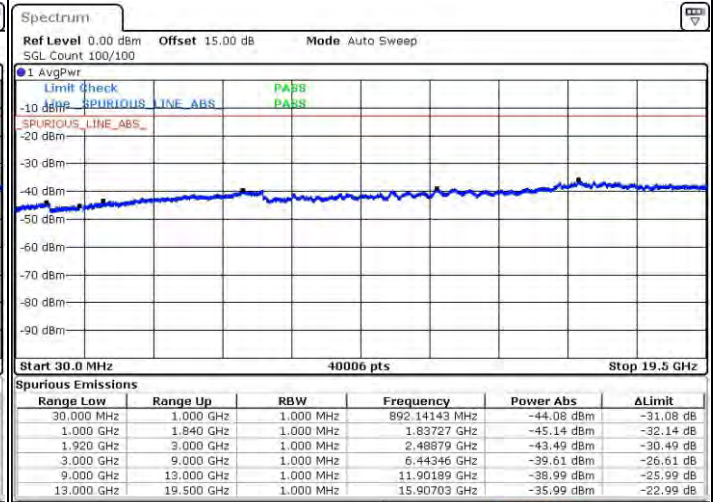
## LTE Band 2 / 5MHz

## Lowest Channel / QPSK



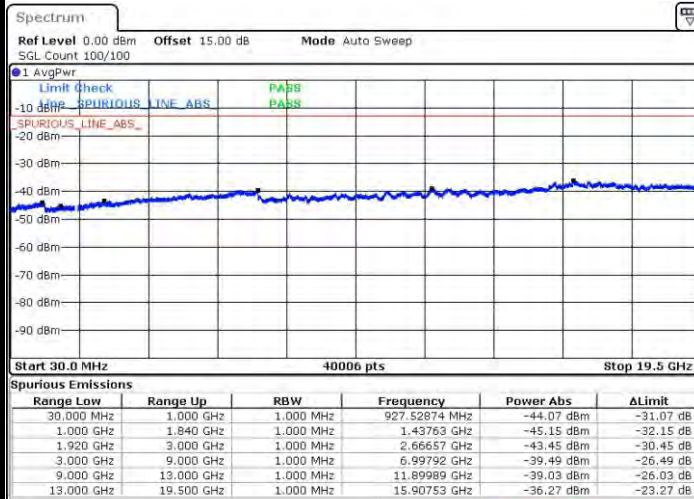
Date: 25 MAY 2015 11:14:26

## Lowest Channel / 16QAM



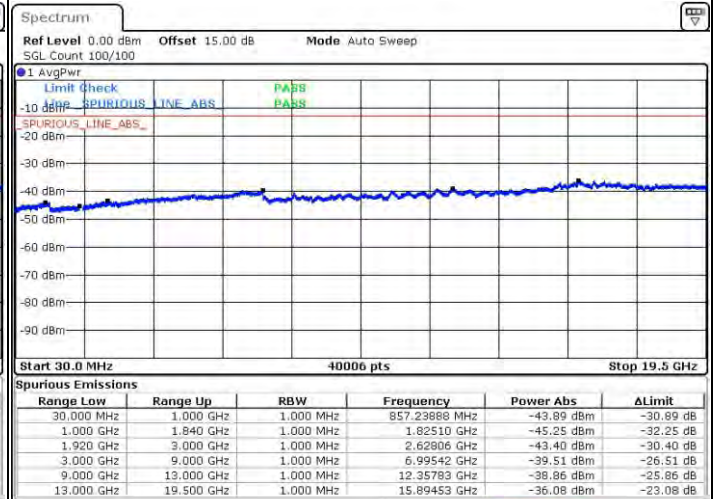
Date: 25 MAY 2015 11:15:35

## Middle Channel / QPSK



Date: 25 MAY 2015 11:17:32

## Middle Channel / 16QAM

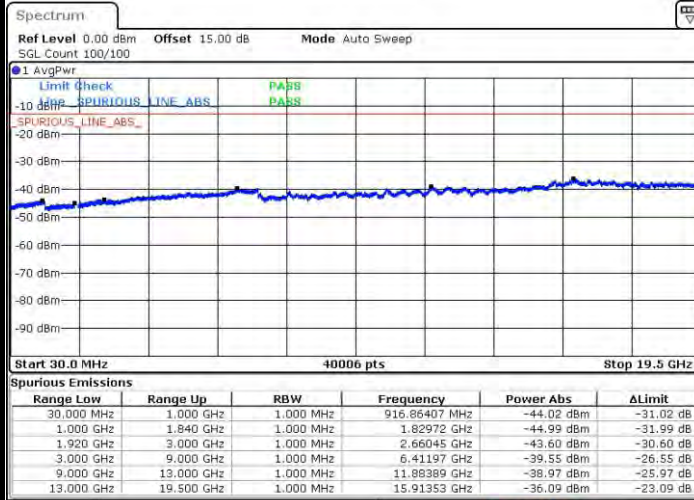


Date: 25 MAY 2015 11:18:41



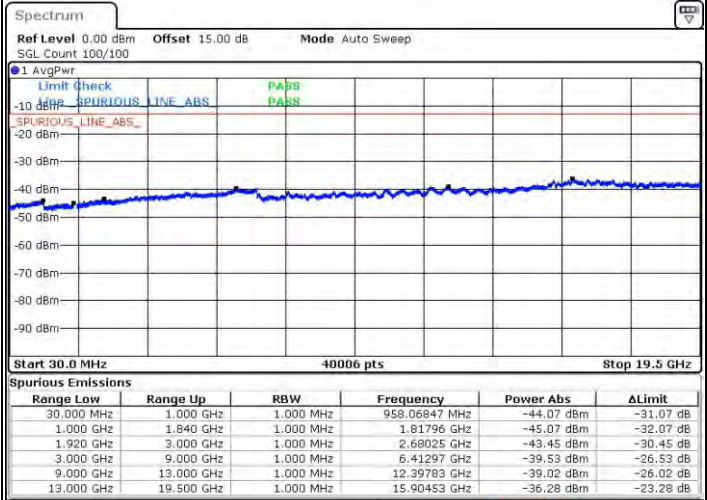
## LTE Band 2 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 11:25:14

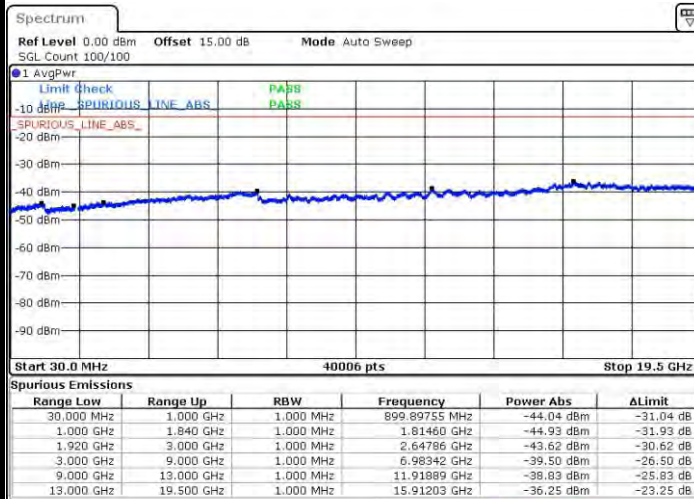
## Highest Channel / 16QAM



Date: 25 MAY 2015 11:26:24

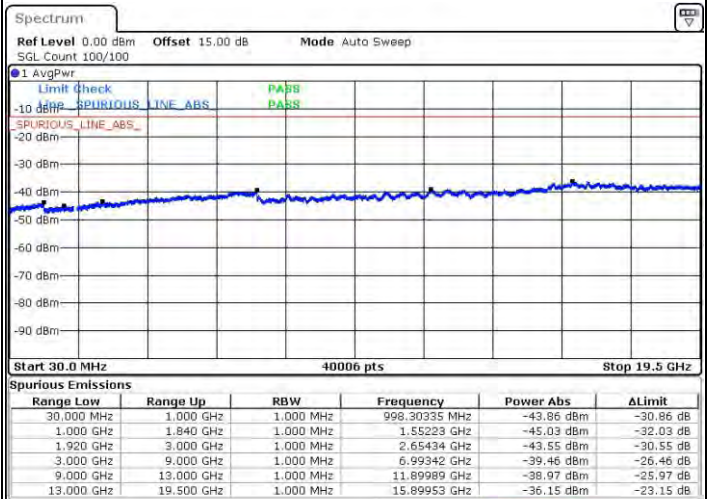
## LTE Band 2 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 11:32:57

## Lowest Channel / 16QAM

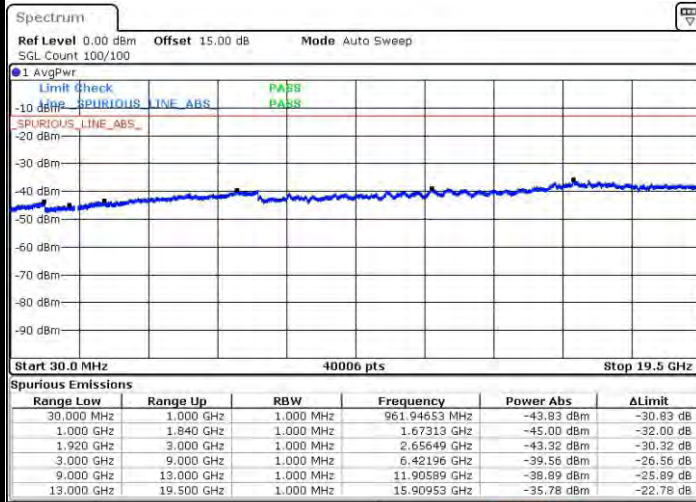


Date: 25 MAY 2015 11:34:07



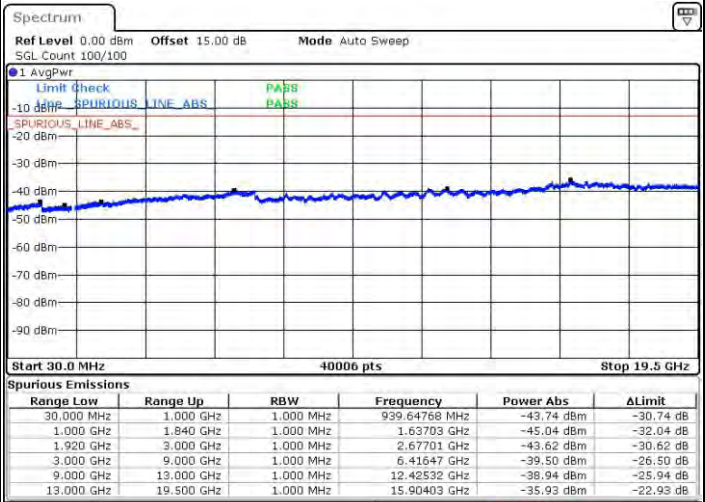
## LTE Band 2 / 10MHz

## Middle Channel / QPSK



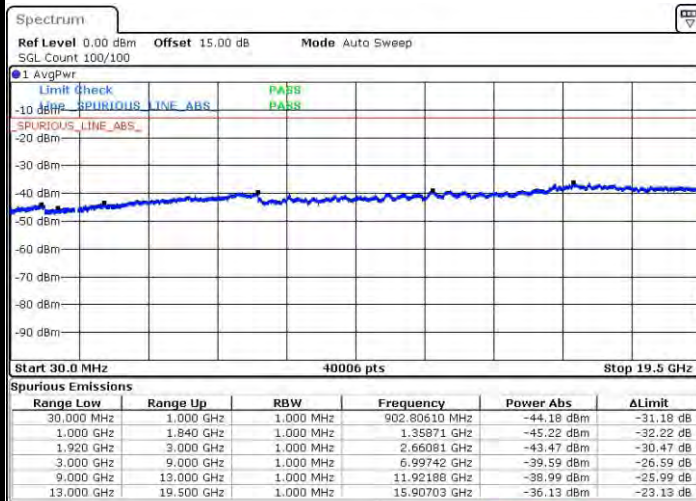
Date: 25 MAY 2015 11:36:04

## Middle Channel / 16QAM



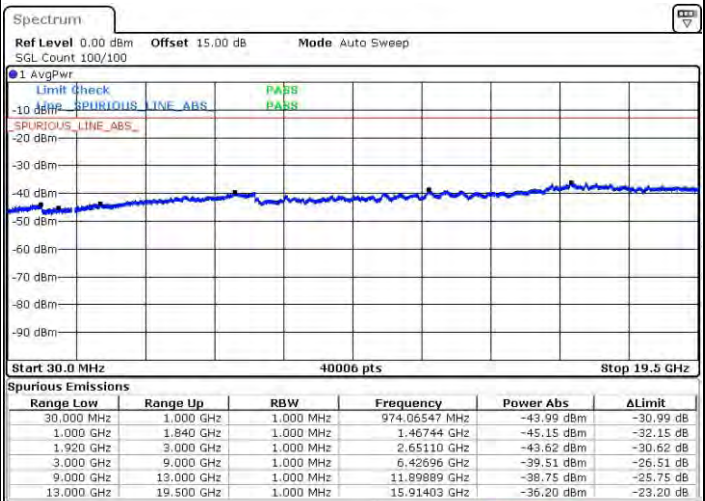
Date: 25 MAY 2015 11:37:13

## Highest Channel / QPSK



Date: 25 MAY 2015 11:43:47

## Highest Channel / 16QAM

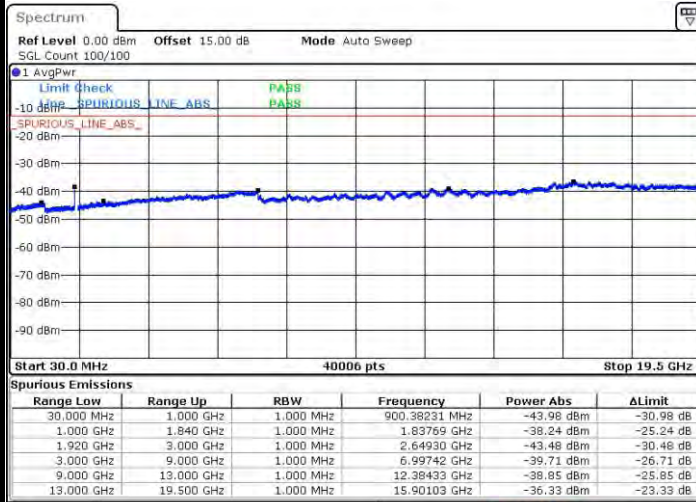


Date: 25 MAY 2015 11:44:56



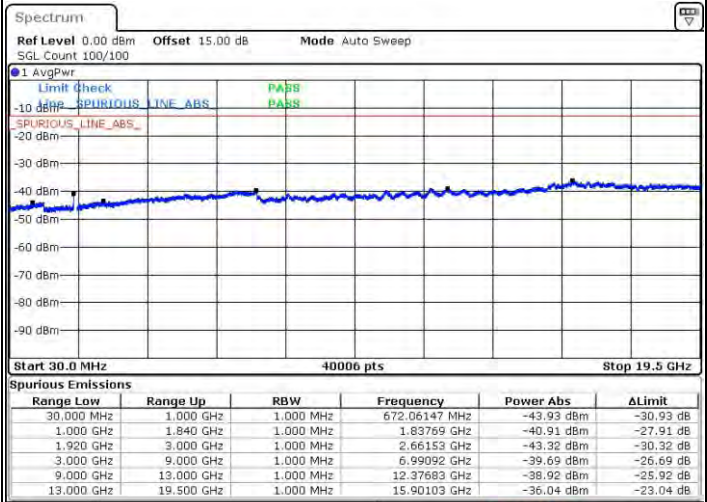
## LTE Band 2 / 15MHz

## Lowest Channel / QPSK



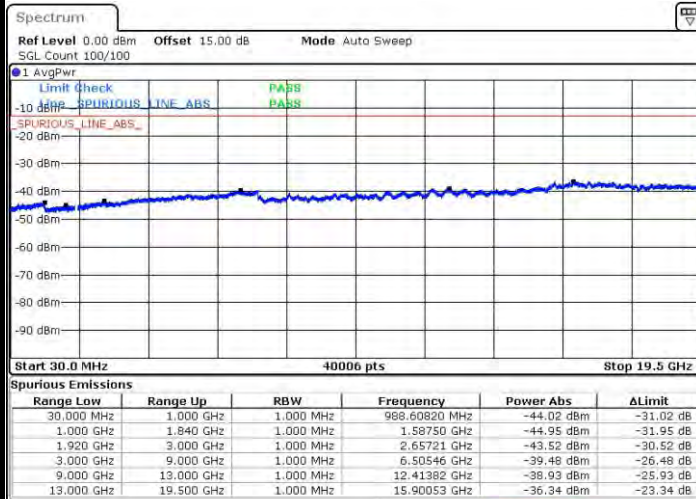
Date: 25 MAY 2015 11:51:30

## Lowest Channel / 16QAM



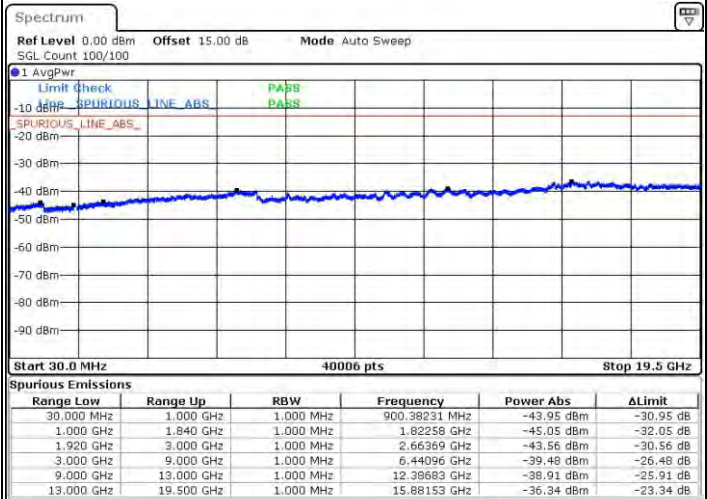
Date: 25 MAY 2015 11:52:39

## Middle Channel / QPSK



Date: 25 MAY 2015 11:54:35

## Middle Channel / 16QAM

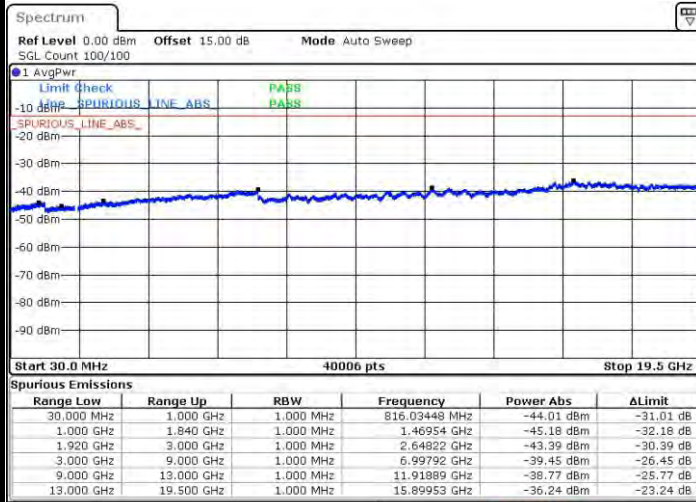


Date: 25 MAY 2015 11:55:45



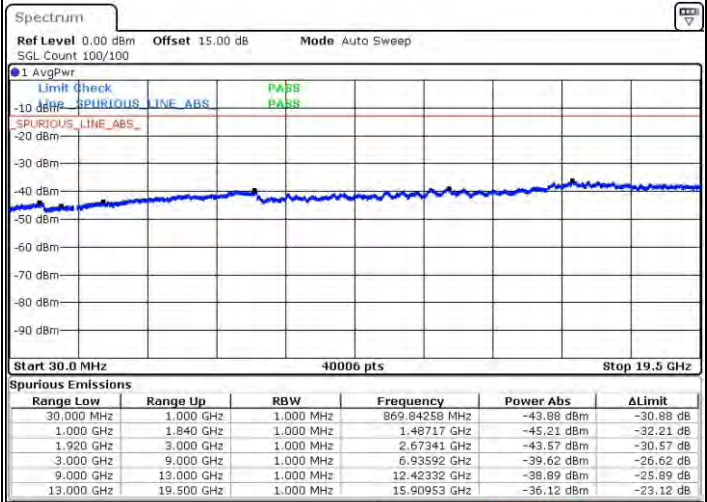
## LTE Band 2 / 15MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 12:02:20

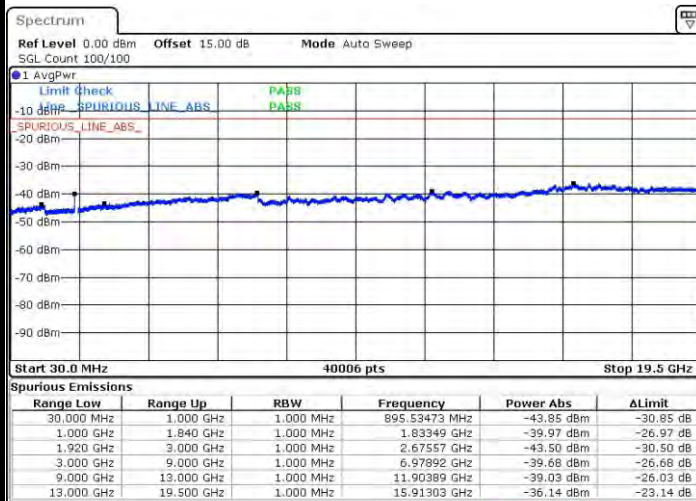
## Highest Channel / 16QAM



Date: 25 MAY 2015 12:03:29

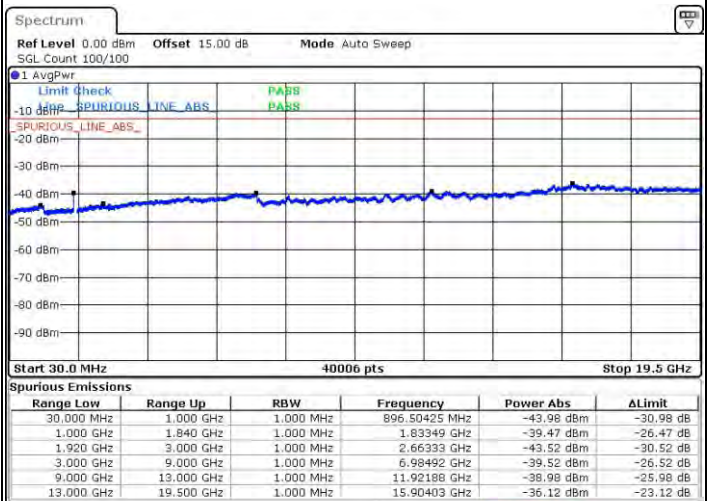
## LTE Band 2 / 20MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 12:10:02

## Lowest Channel / 16QAM

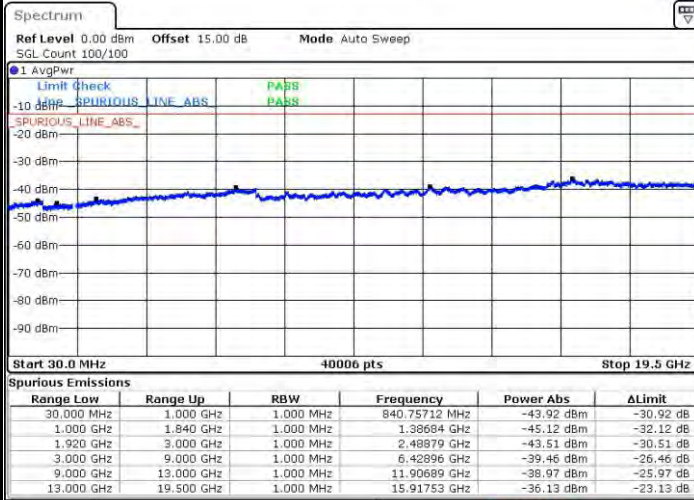


Date: 25 MAY 2015 12:11:12



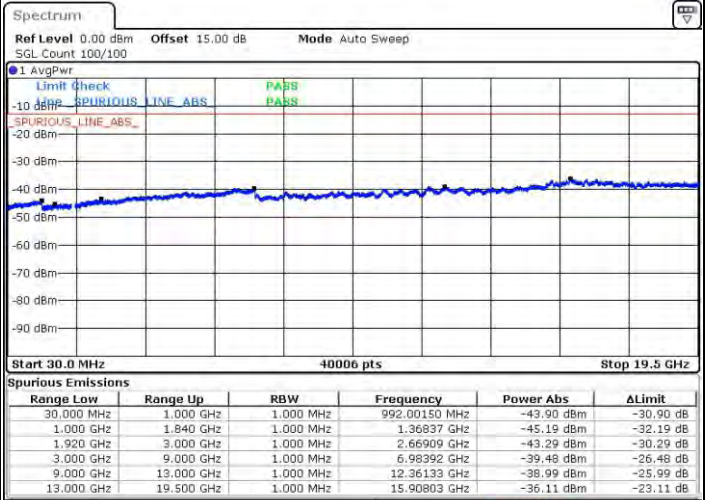
## LTE Band 2 / 20MHz

## Middle Channel / QPSK



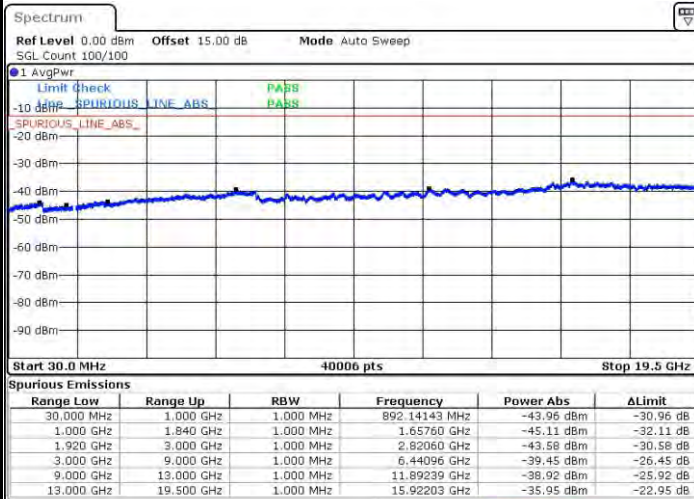
Date: 25 MAY 2015 12:13:40

## Middle Channel / 16QAM



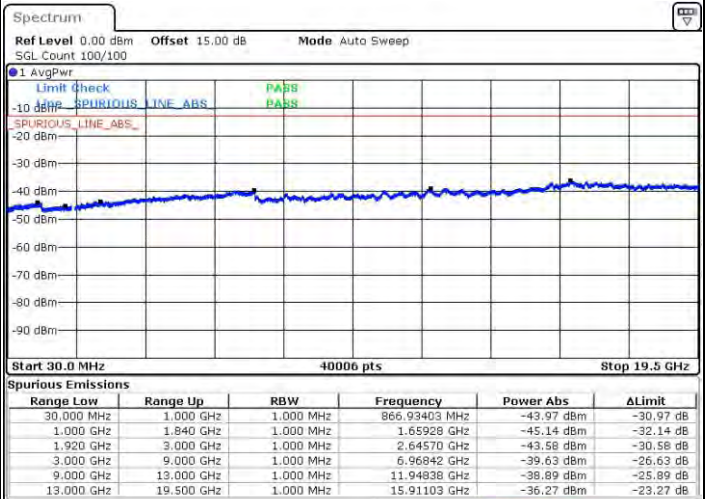
Date: 25 MAY 2015 12:14:50

## Highest Channel / QPSK



Date: 25 MAY 2015 12:21:25

## Highest Channel / 16QAM

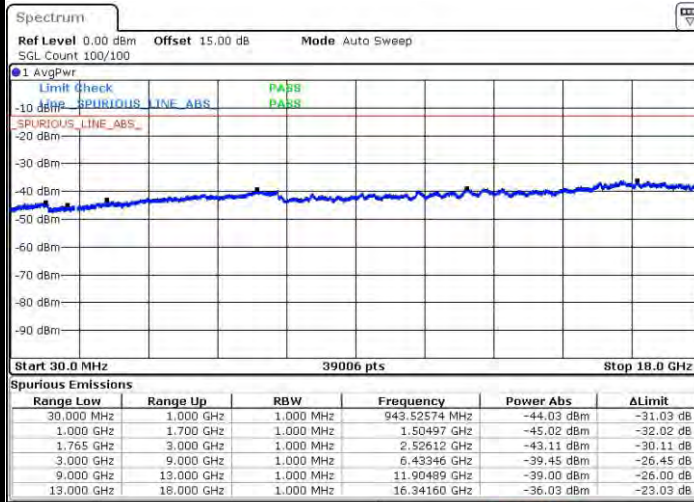


Date: 25 MAY 2015 12:22:35



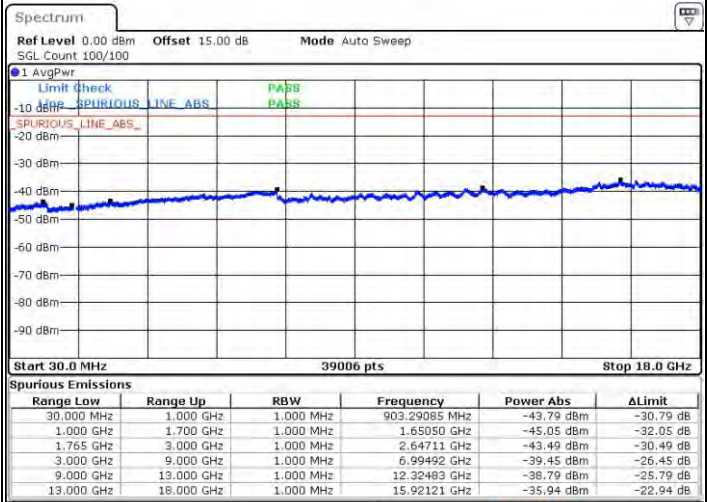
## LTE Band 4 / 1.4MHz

## Lowest Channel / QPSK



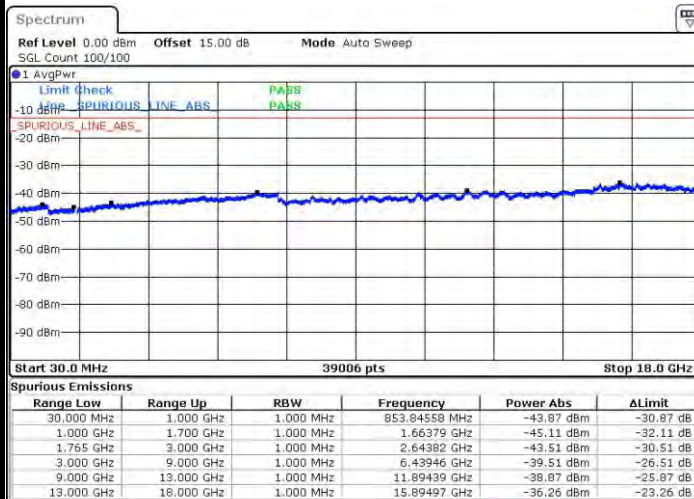
Date: 25 MAY 2015 14:57:17

## Lowest Channel / 16QAM



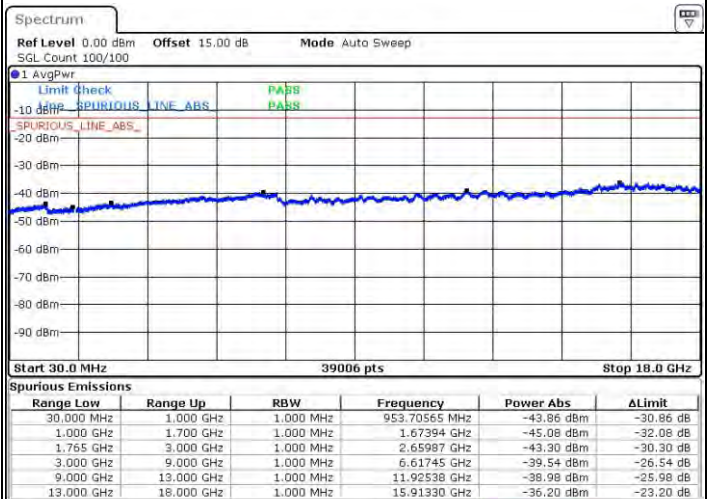
Date: 25 MAY 2015 14:58:27

## Middle Channel / QPSK



Date: 25 MAY 2015 15:00:23

## Middle Channel / 16QAM

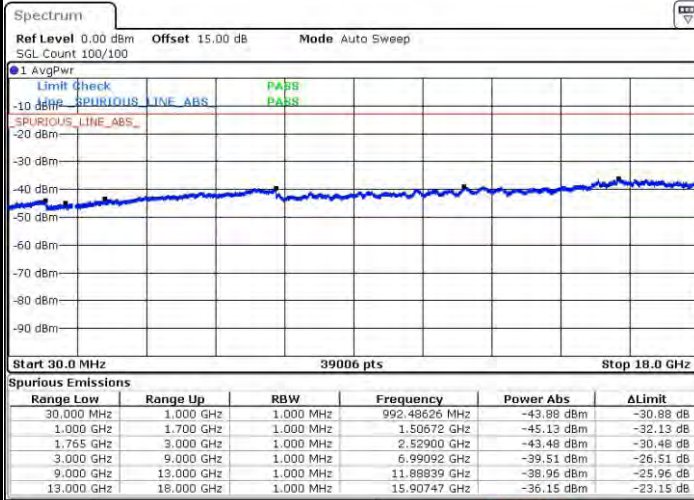


Date: 25 MAY 2015 15:01:33



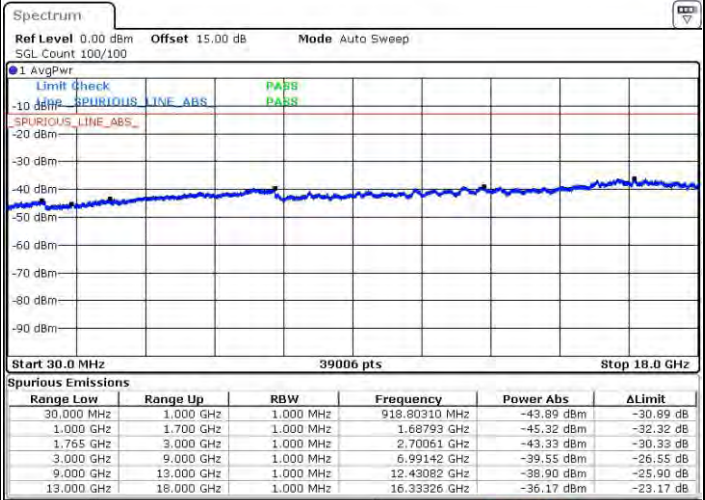
## LTE Band 4 / 1.4MHz

## Highest Channel / QPSK



Date: 25.MAY.2015 15:08:13

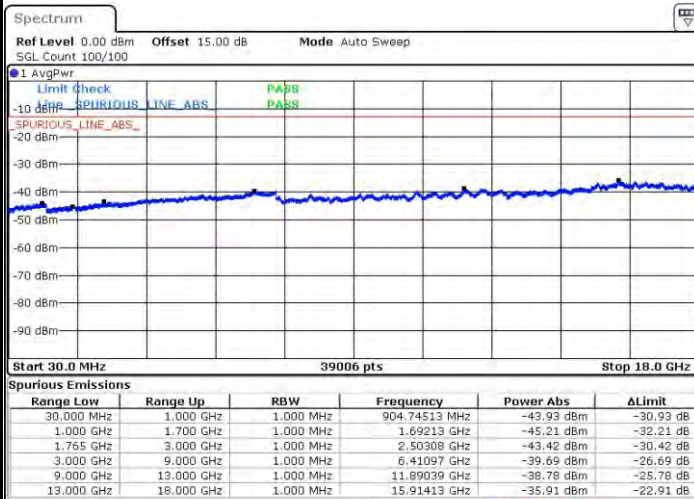
## Highest Channel / 16QAM



Date: 25.MAY.2015 15:09:22

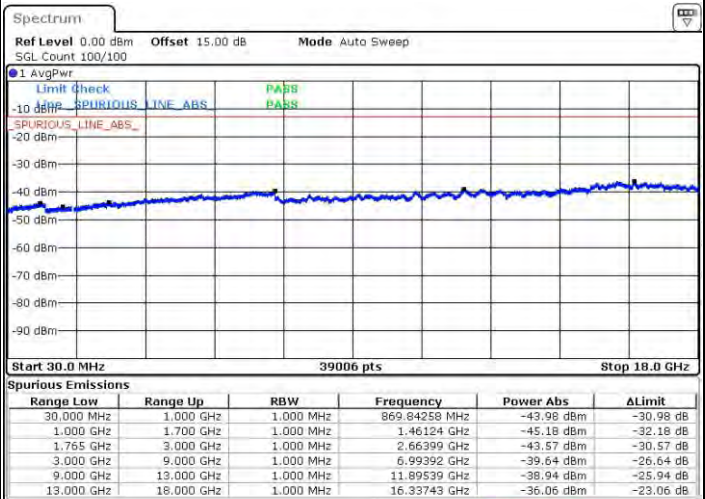
## LTE Band 4 / 3MHz

## Lowest Channel / QPSK



Date: 25.MAY.2015 15:16:01

## Lowest Channel / 16QAM

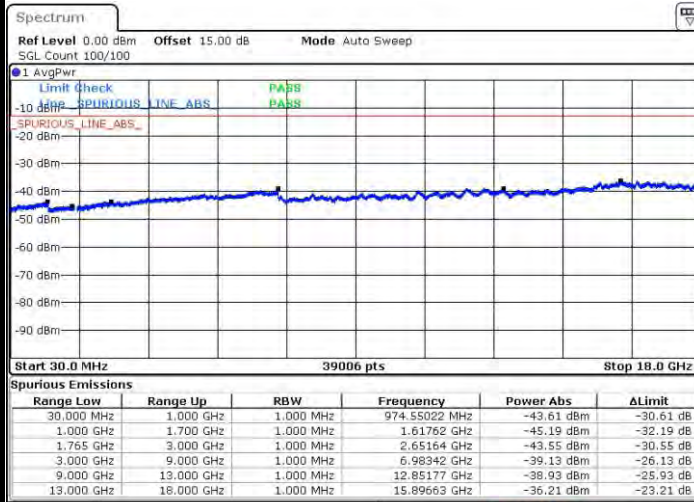


Date: 25.MAY.2015 15:17:11



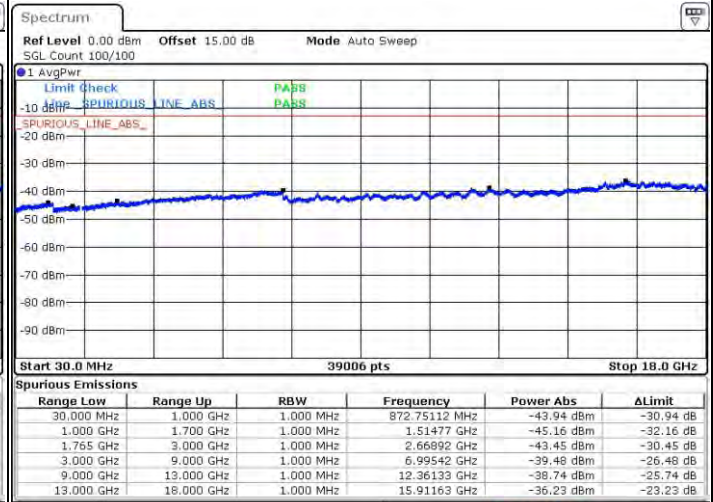
## LTE Band 4 / 3MHz

## Middle Channel / QPSK



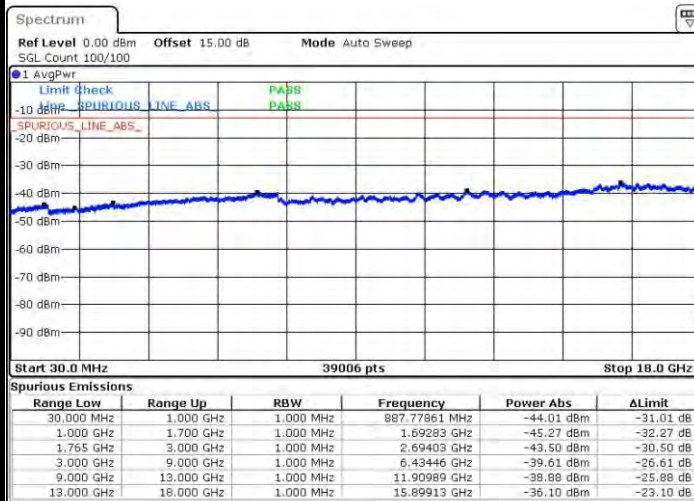
Date: 25 MAY 2015 15:19:07

## Middle Channel / 16QAM



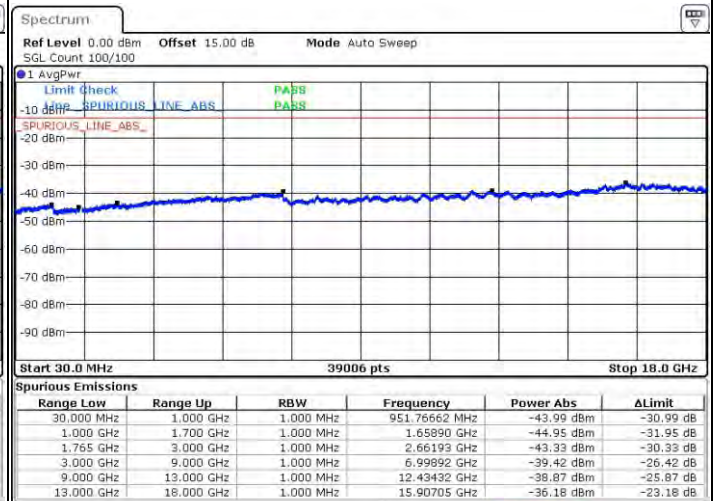
Date: 25 MAY 2015 15:20:17

## Highest Channel / QPSK



Date: 25 MAY 2015 15:28:55

## Highest Channel / 16QAM

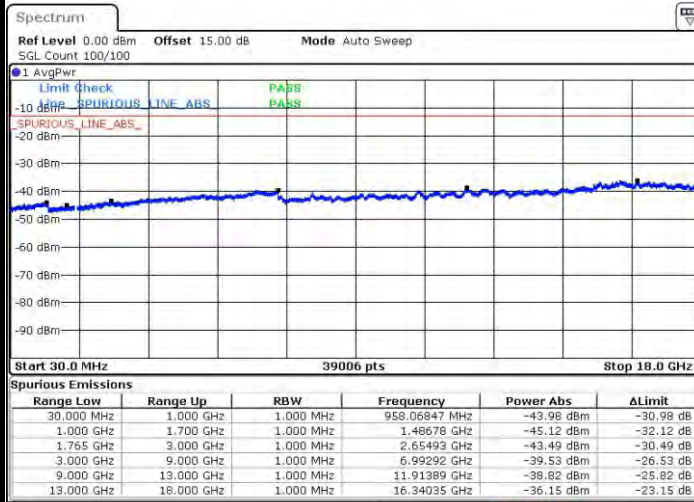


Date: 25 MAY 2015 15:28:04



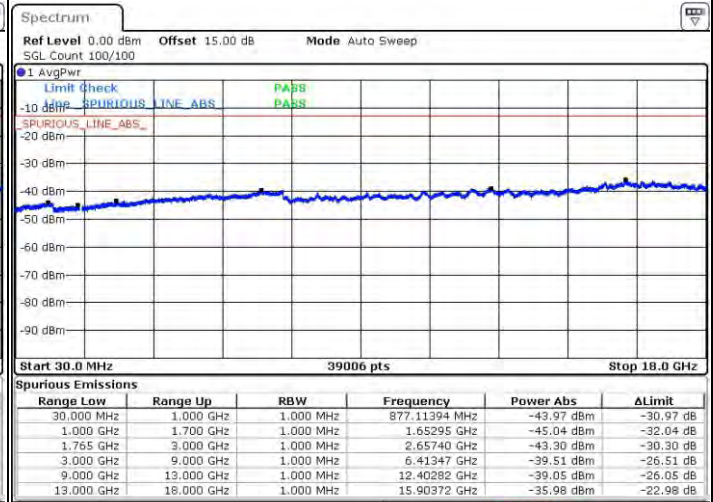
## LTE Band 4 / 5MHz

## Lowest Channel / QPSK



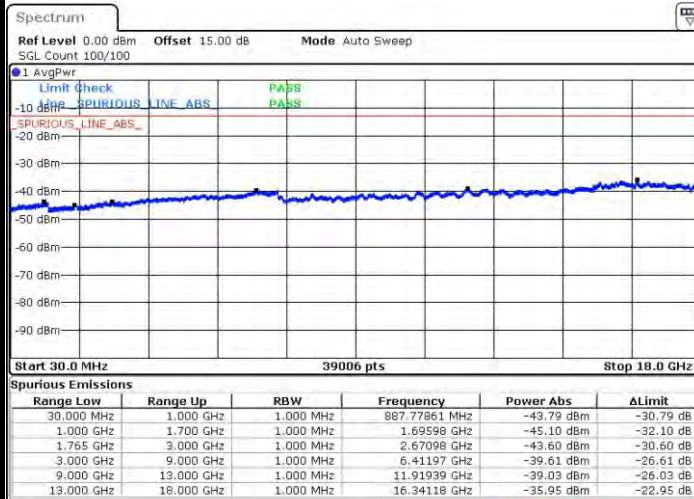
Date: 25 MAY 2015 15:34:41

## Lowest Channel / 16QAM



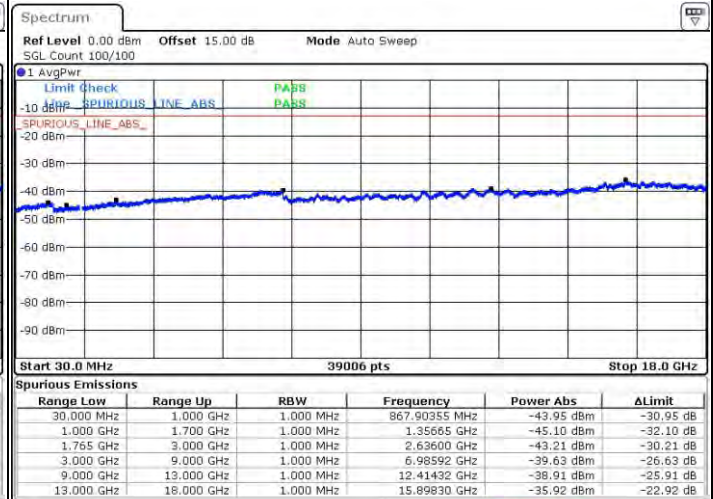
Date: 25 MAY 2015 15:35:50

## Middle Channel / QPSK



Date: 25 MAY 2015 15:37:47

## Middle Channel / 16QAM

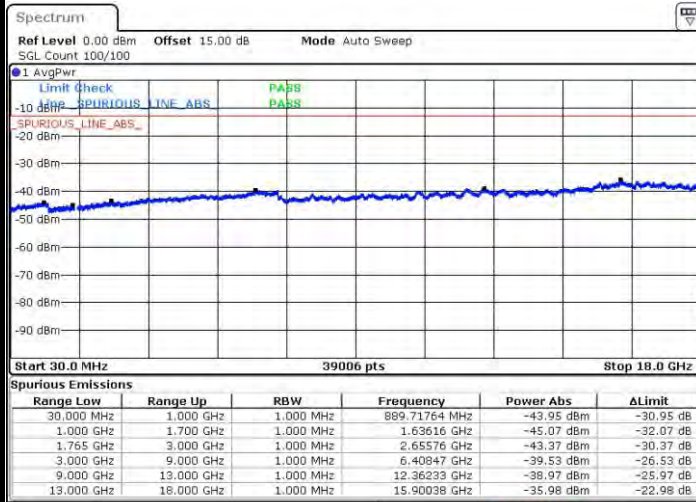


Date: 25 MAY 2015 15:38:56



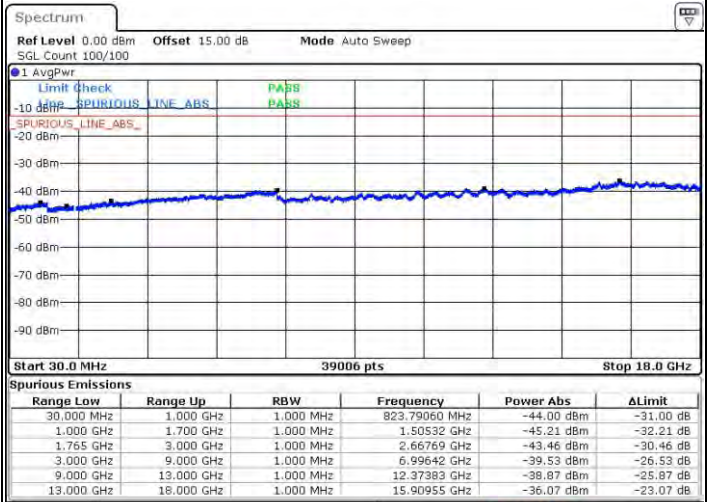
## LTE Band 4 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 15:45:34

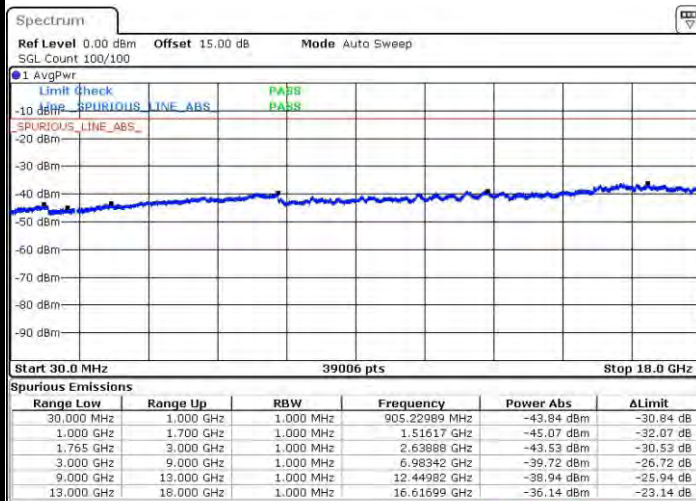
## Highest Channel / 16QAM



Date: 25 MAY 2015 15:46:43

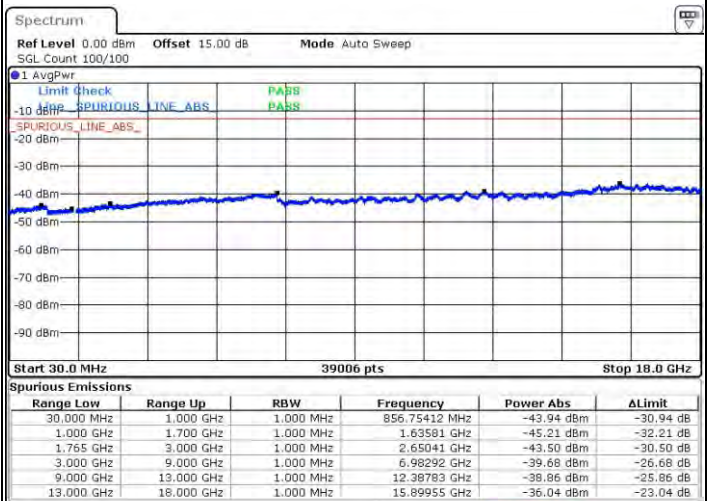
## LTE Band 4 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 15:53:18

## Lowest Channel / 16QAM

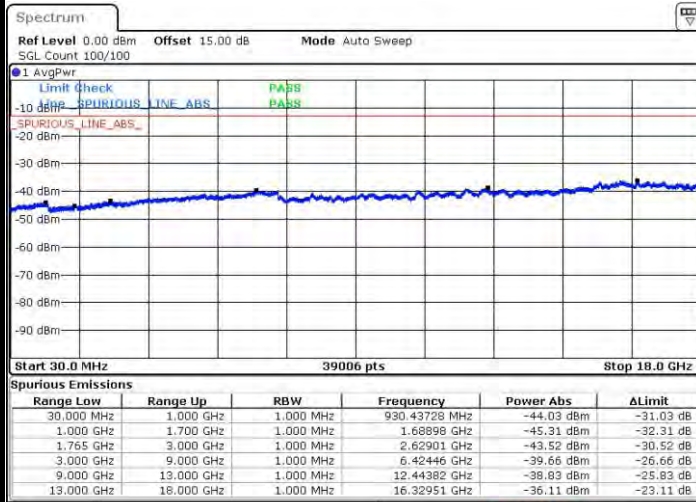


Date: 25 MAY 2015 15:54:27



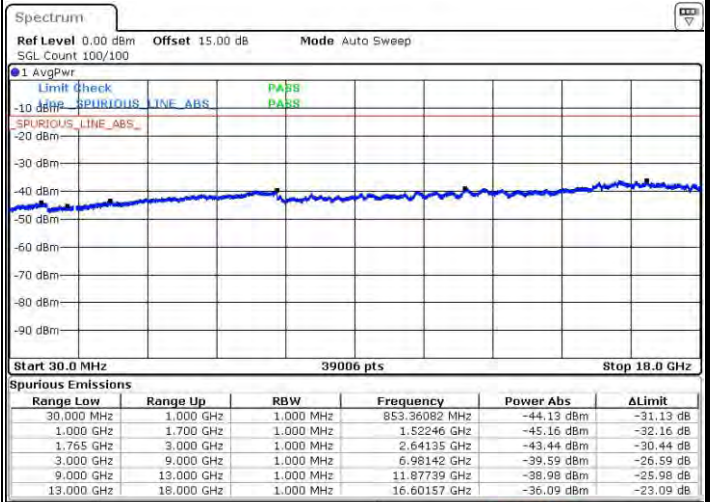
## LTE Band 4 / 10MHz

## Middle Channel / QPSK



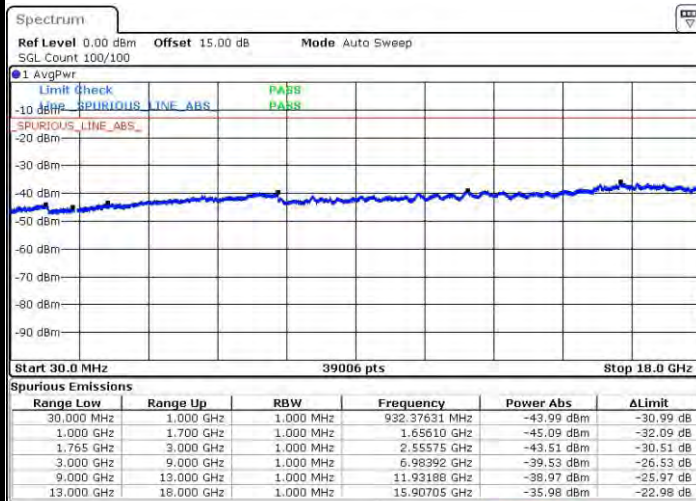
Date: 25 MAY 2015 15:56:24

## Middle Channel / 16QAM



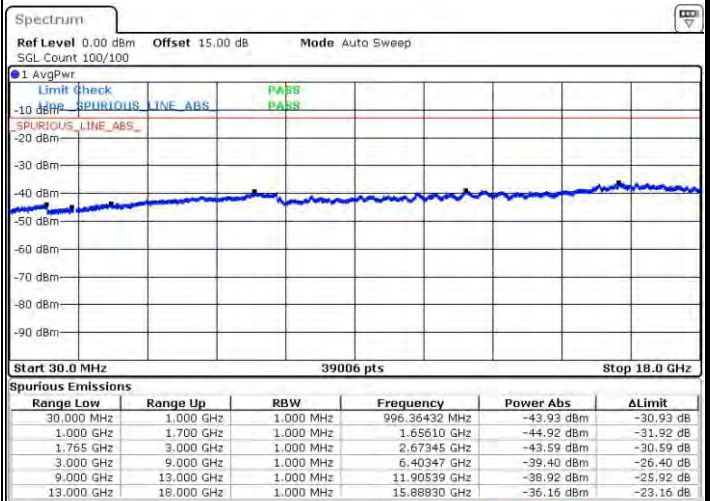
Date: 25 MAY 2015 15:57:33

## Highest Channel / QPSK



Date: 25 MAY 2015 16:04:10

## Highest Channel / 16QAM

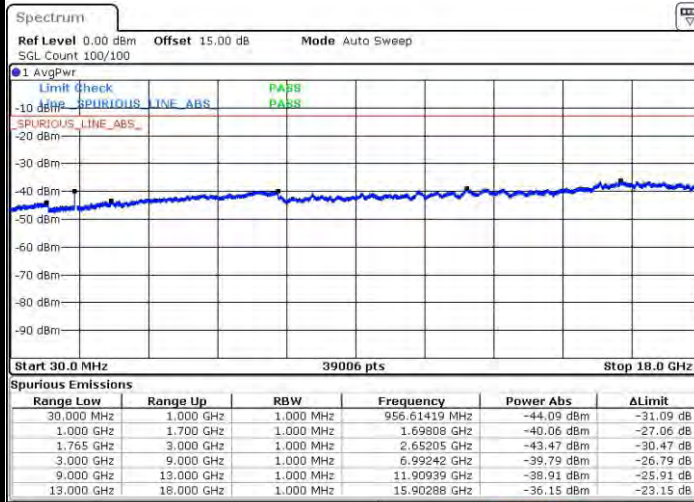


Date: 25 MAY 2015 16:05:19



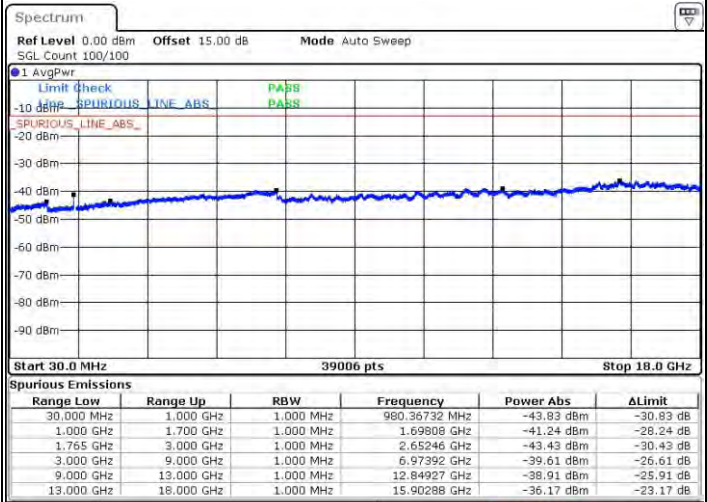
## LTE Band 4 / 15MHz

## Lowest Channel / QPSK



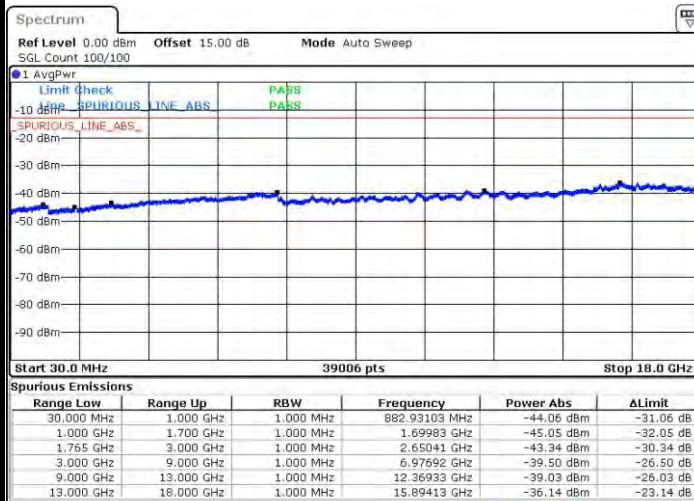
Date: 25 MAY 2015 16:11:58

## Lowest Channel / 16QAM



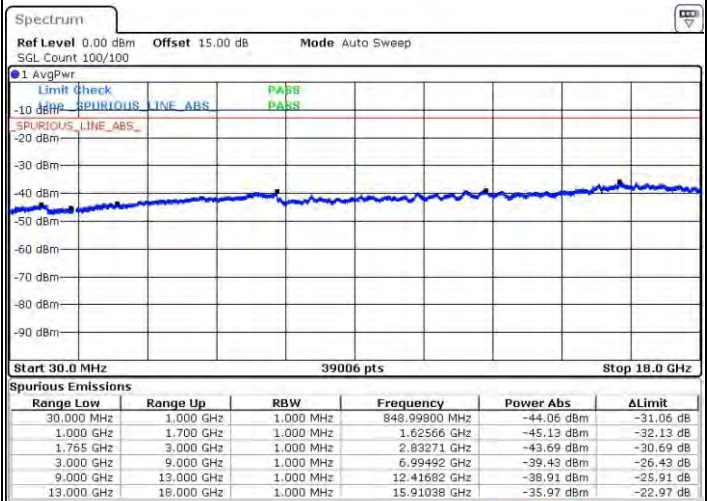
Date: 25 MAY 2015 16:13:07

## Middle Channel / QPSK



Date: 25 MAY 2015 16:15:03

## Middle Channel / 16QAM

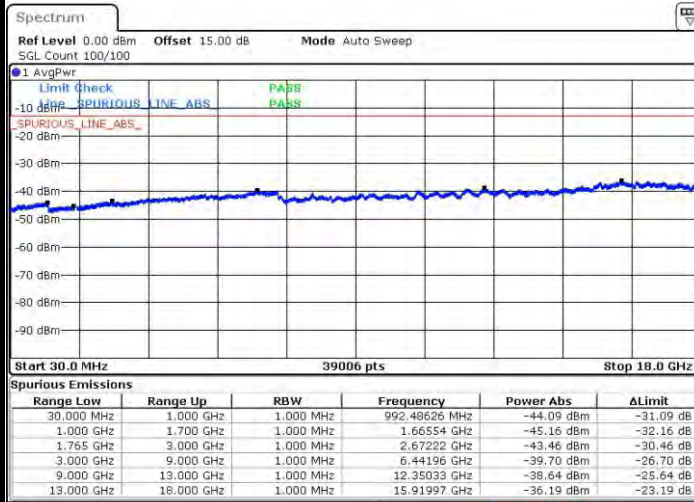


Date: 25 MAY 2015 16:16:12



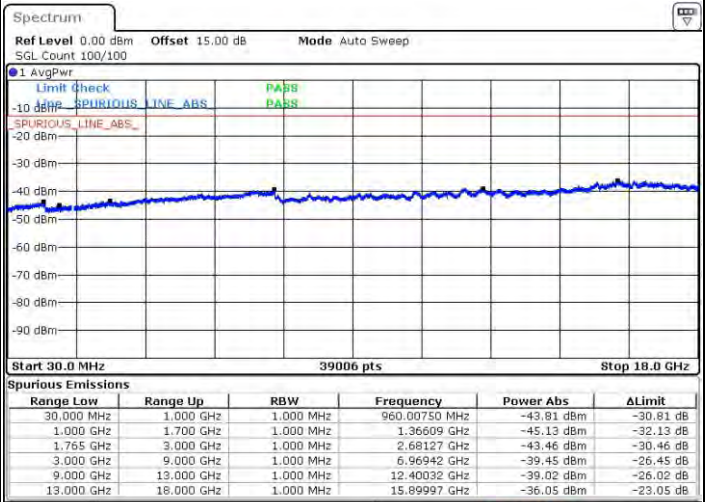
## LTE Band 4 / 15MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 16:22:51

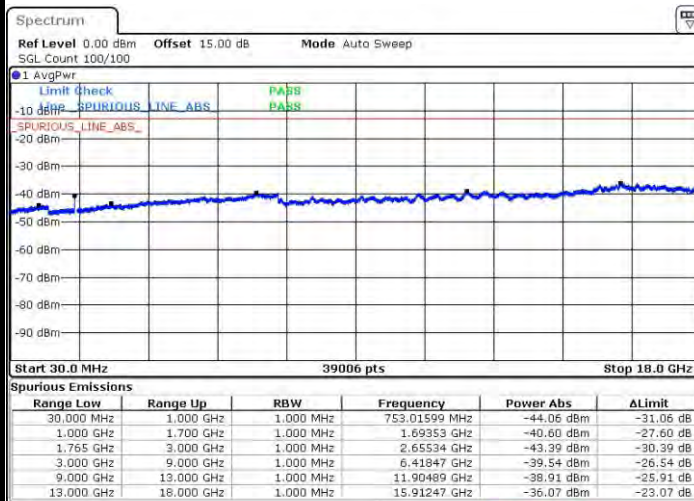
## Highest Channel / 16QAM



Date: 25 MAY 2015 16:24:00

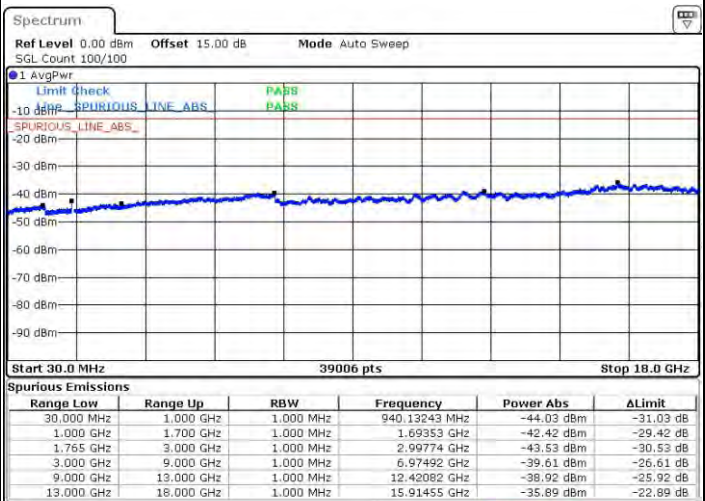
## LTE Band 4 / 20MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 16:30:39

## Lowest Channel / 16QAM

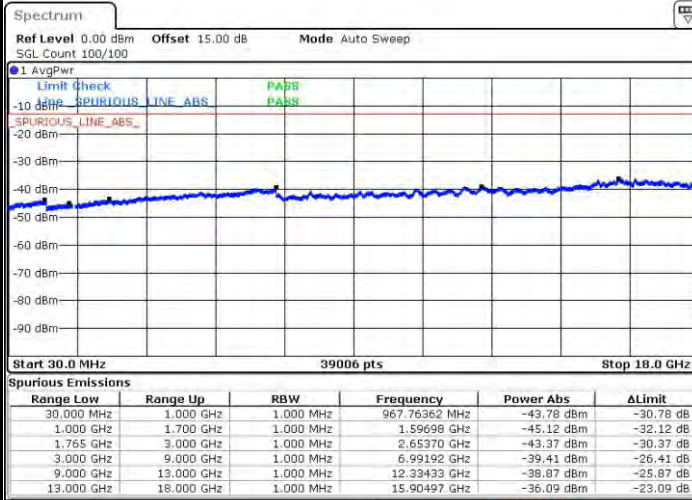


Date: 25 MAY 2015 16:31:48



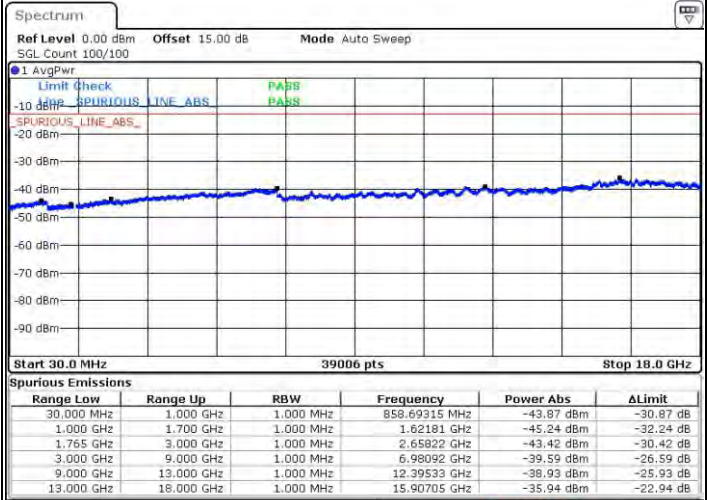
## LTE Band 4 / 20MHz

## Middle Channel / QPSK



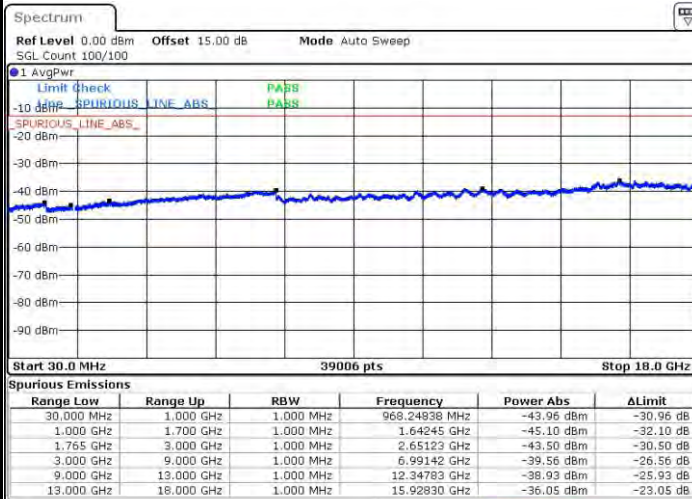
Date: 25 MAY 2015 16:33:44

## Middle Channel / 16QAM



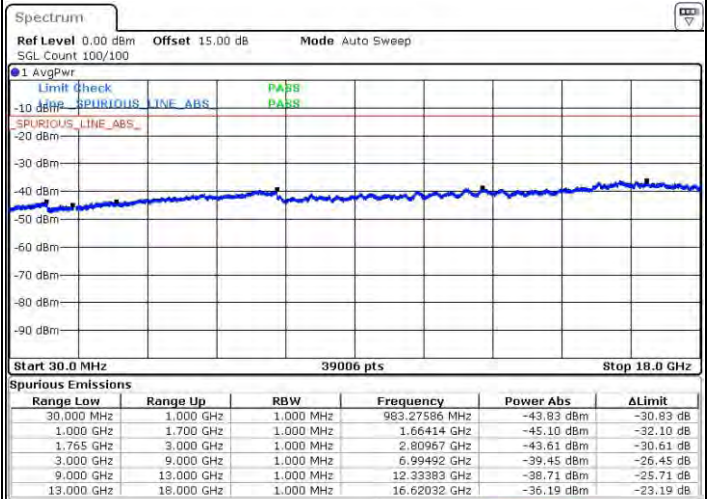
Date: 25 MAY 2015 16:34:54

## Highest Channel / QPSK



Date: 25 MAY 2015 16:41:32

## Highest Channel / 16QAM

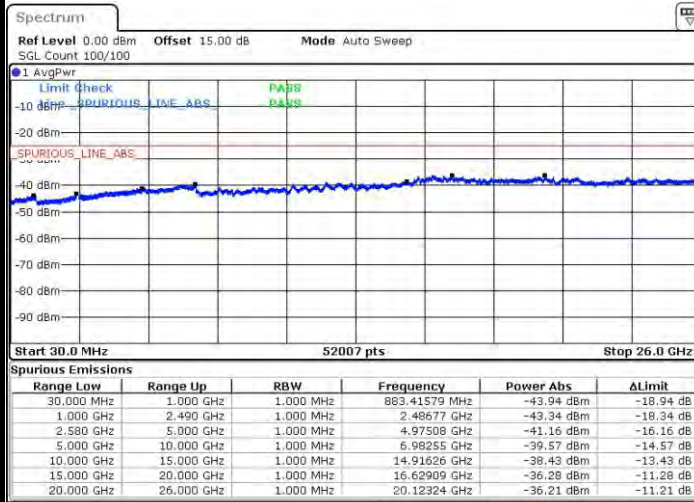


Date: 25 MAY 2015 16:42:41



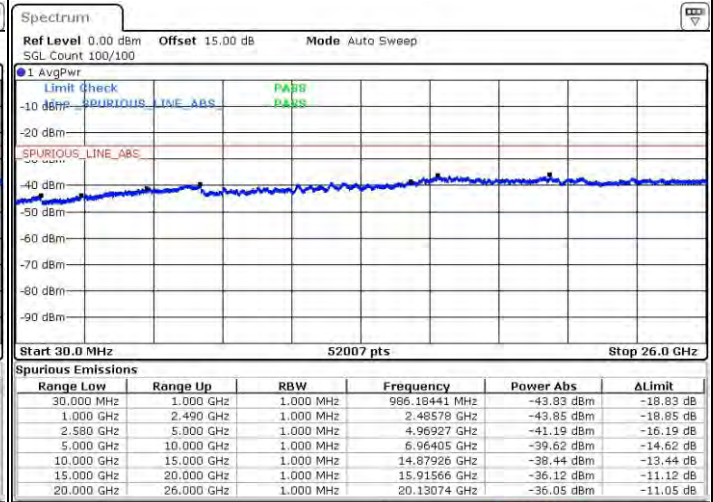
## LTE Band 7 / 5MHz

## Lowest Channel / QPSK



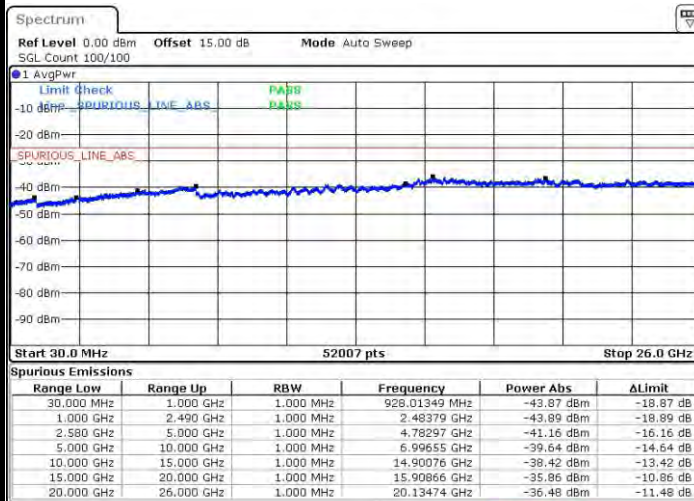
Date: 25 MAY 2015 17:28:33

## Lowest Channel / 16QAM



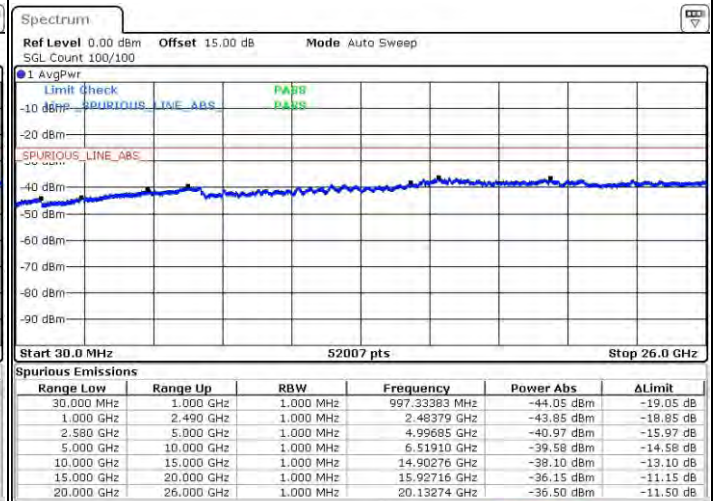
Date: 25 MAY 2015 17:29:42

## Middle Channel / QPSK



Date: 25 MAY 2015 17:31:39

## Middle Channel / 16QAM

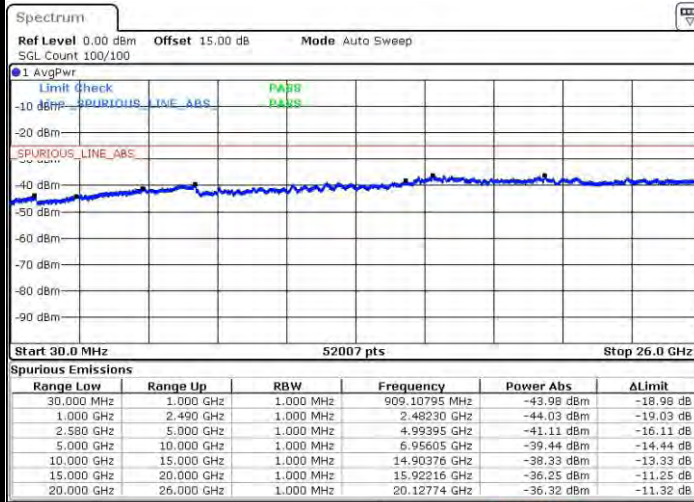


Date: 25 MAY 2015 17:32:48



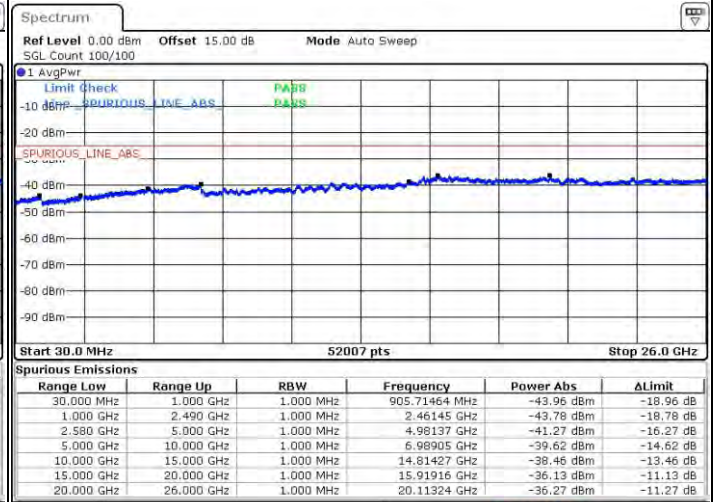
## LTE Band 7 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 17:58:11

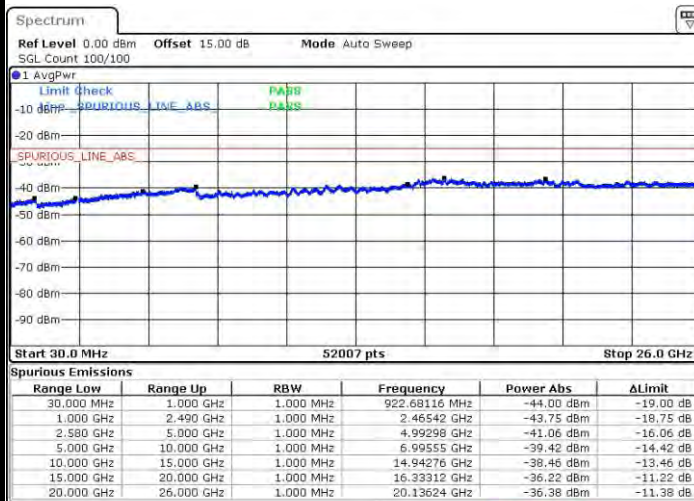
## Highest Channel / 16QAM



Date: 25 MAY 2015 17:59:21

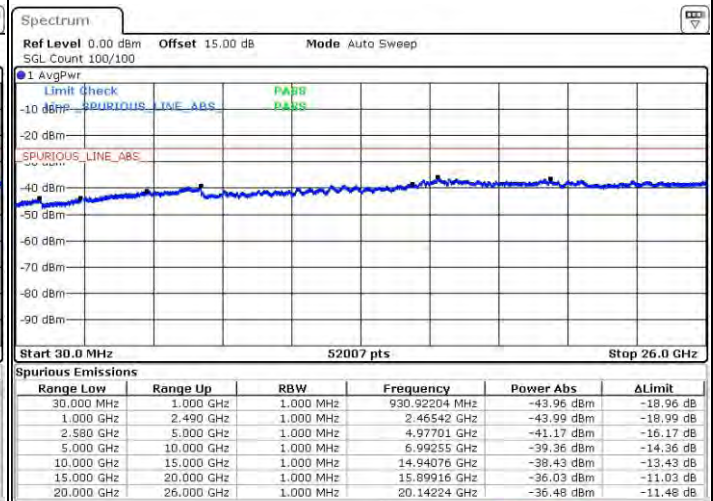
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 18:05:57

## Lowest Channel / 16QAM

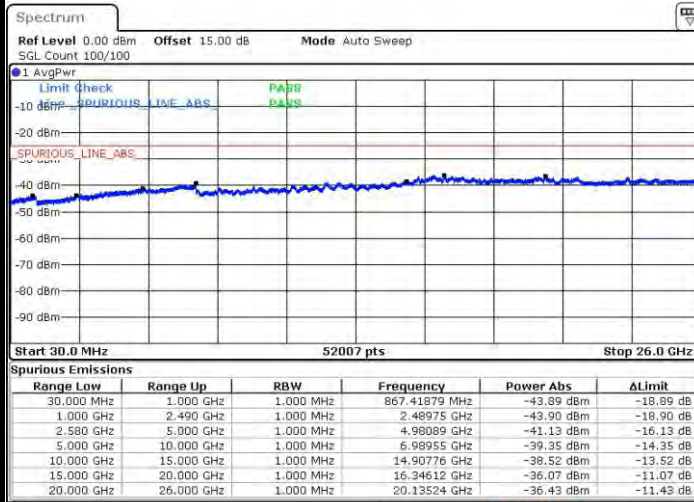


Date: 25 MAY 2015 18:07:06



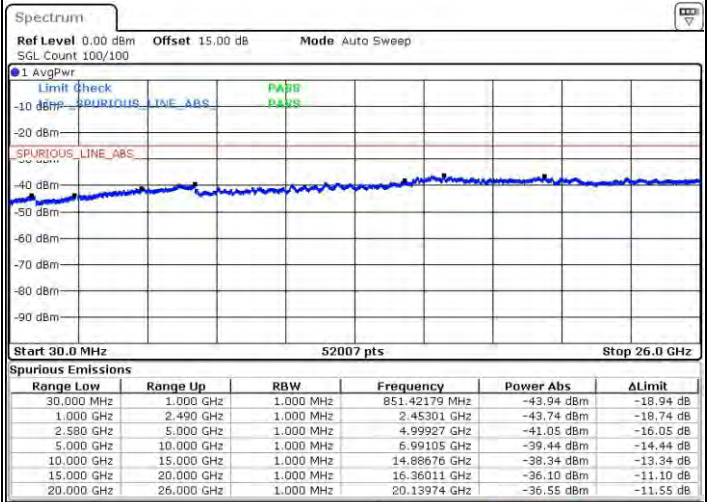
## LTE Band 7 / 10MHz

## Middle Channel / QPSK



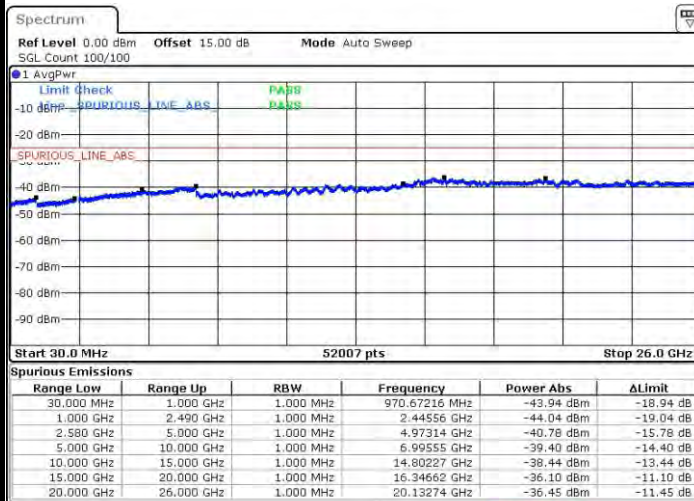
Date: 25 MAY 2015 18:08:03

## Middle Channel / 16QAM



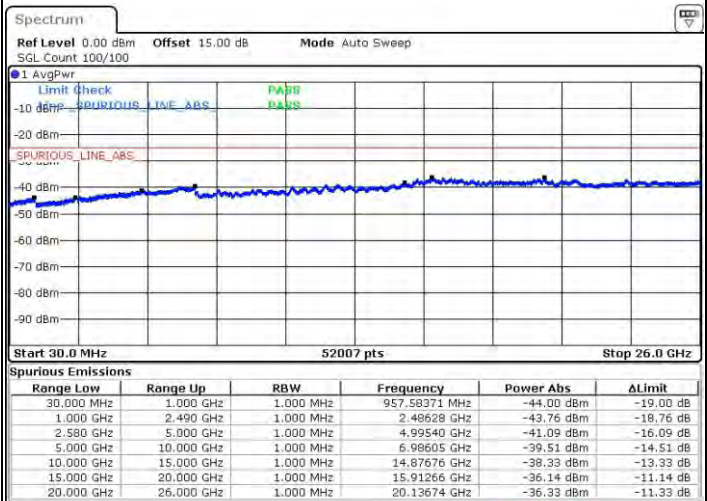
Date: 25 MAY 2015 18:10:12

## Highest Channel / QPSK



Date: 25 MAY 2015 18:16:52

## Highest Channel / 16QAM

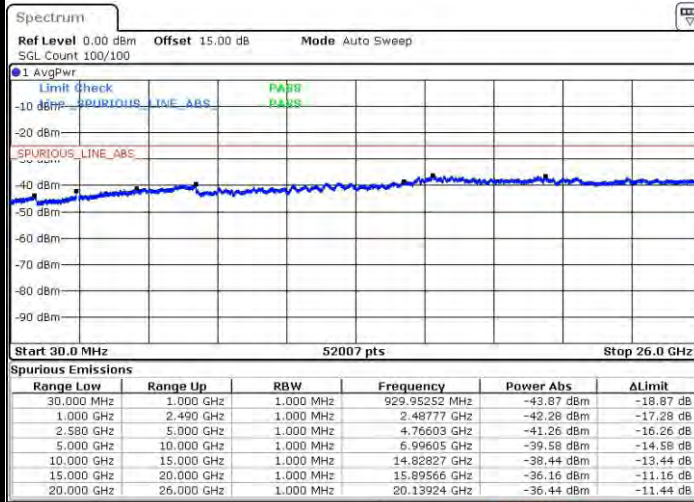


Date: 25 MAY 2015 18:18:01



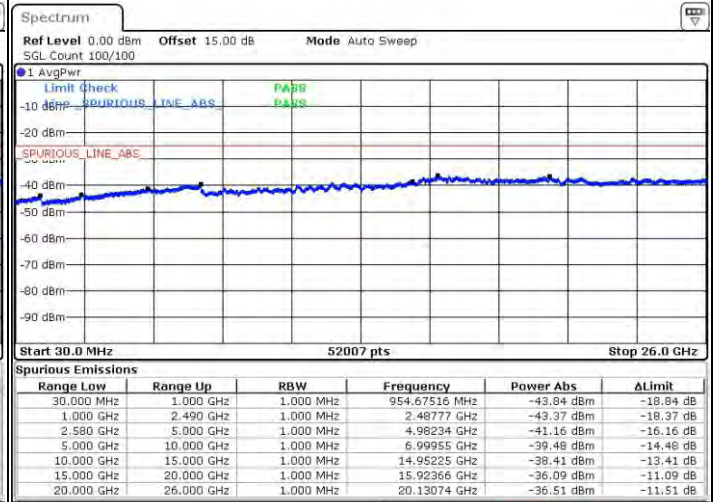
## LTE Band 7 / 15MHz

## Lowest Channel / QPSK



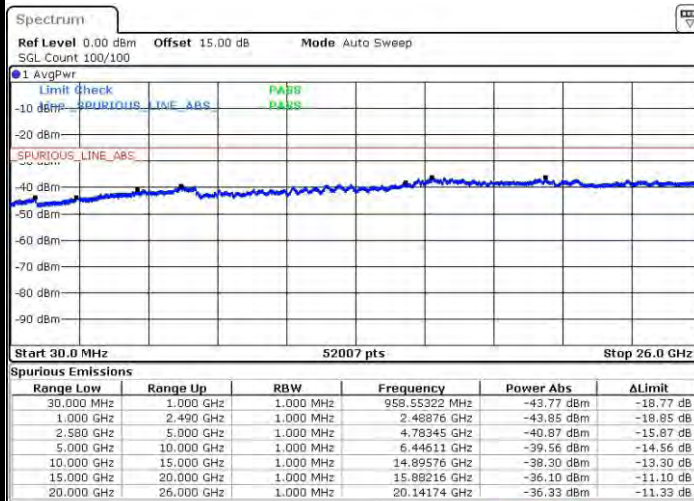
Date: 25 MAY 2015 18:24:35

## Lowest Channel / 16QAM



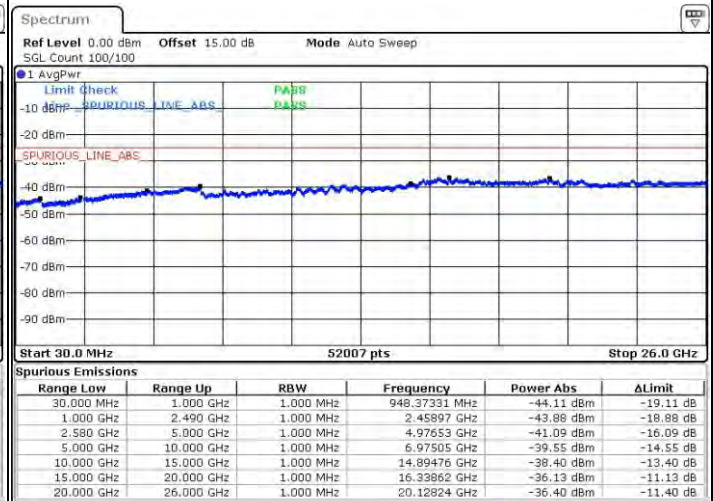
Date: 25 MAY 2015 18:25:45

## Middle Channel / QPSK



Date: 25 MAY 2015 18:27:42

## Middle Channel / 16QAM

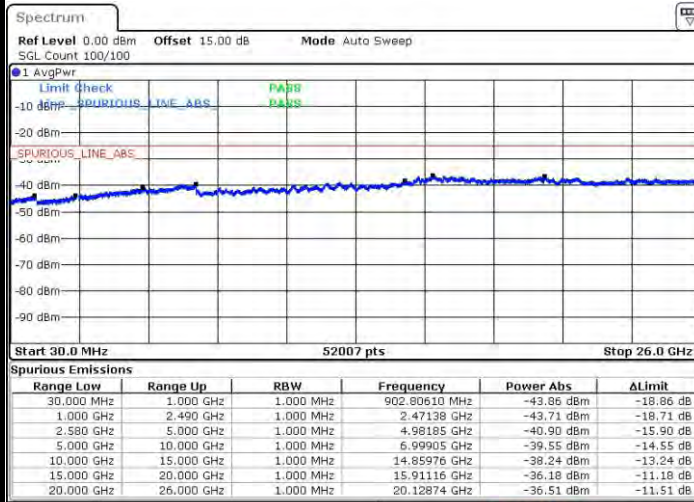


Date: 25 MAY 2015 18:28:51



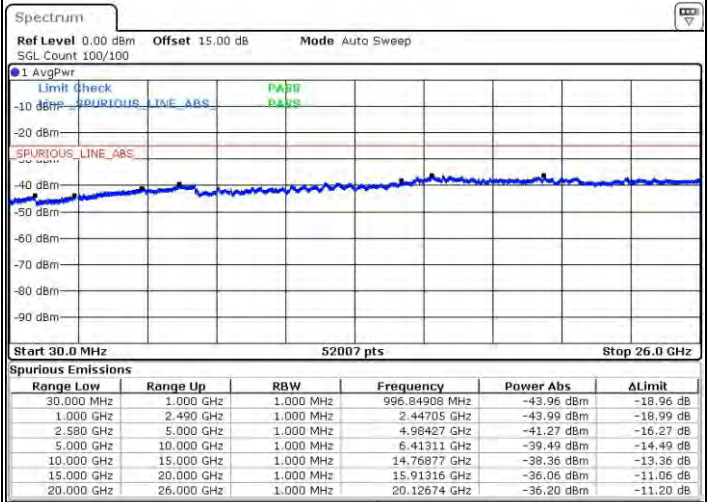
## LTE Band 7 / 15MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 18:35:27

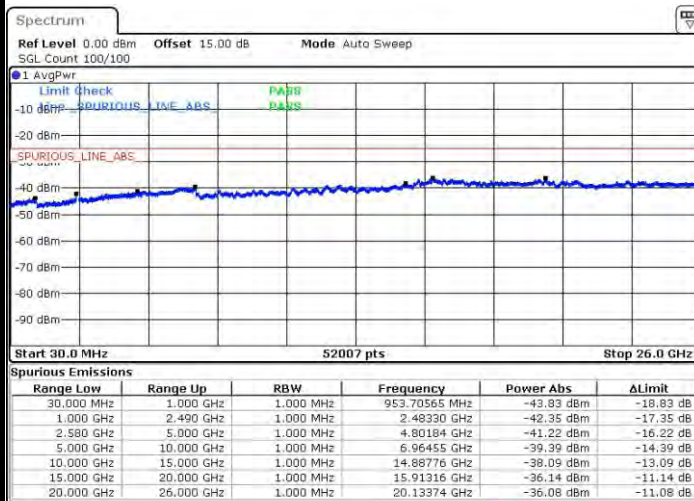
## Highest Channel / 16QAM



Date: 25 MAY 2015 18:36:37

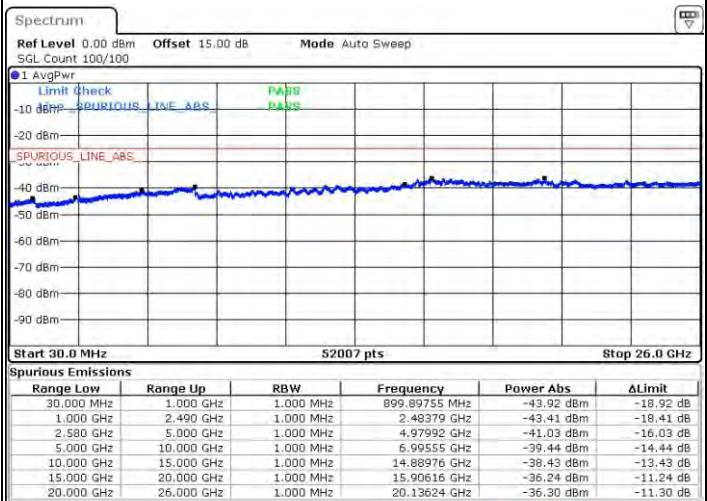
## LTE Band 7 / 20MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 19:00:04

## Lowest Channel / 16QAM

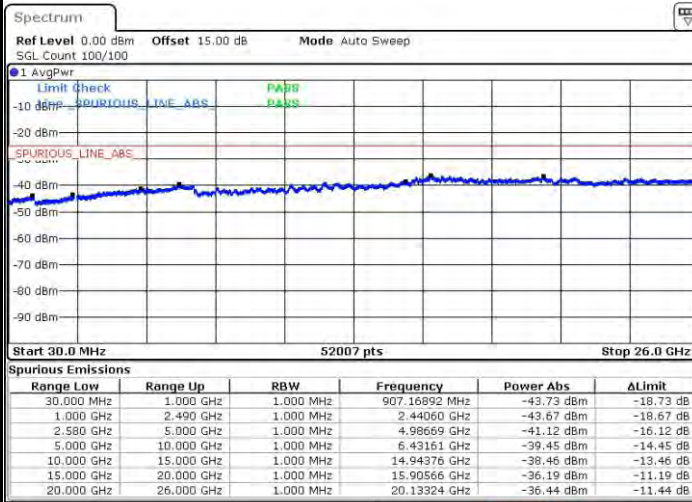


Date: 25 MAY 2015 19:01:13



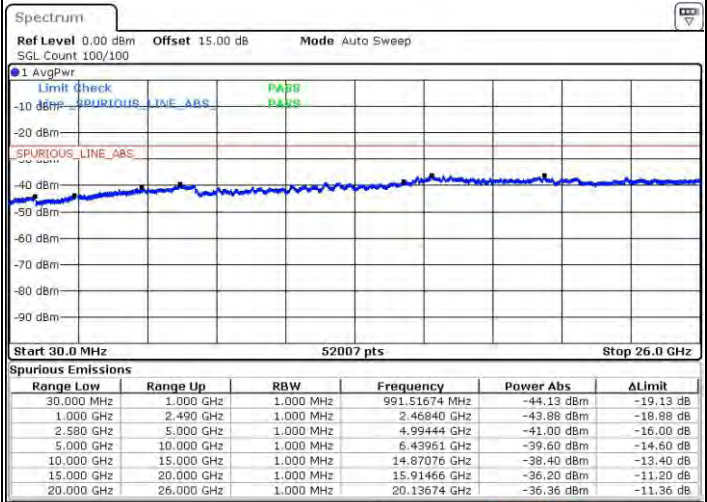
## LTE Band 7 / 20MHz

## Middle Channel / QPSK



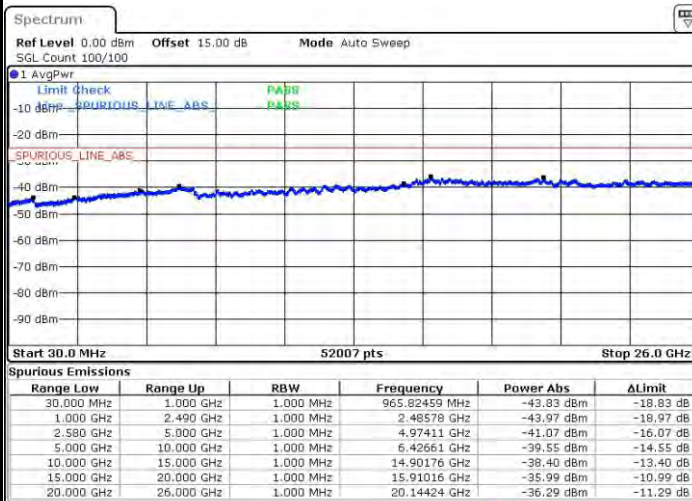
Date: 25 MAY 2015 19:03:10

## Middle Channel / 16QAM



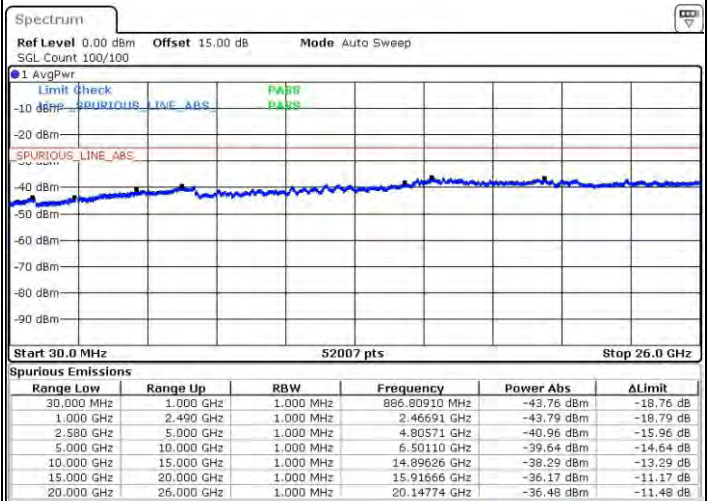
Date: 25 MAY 2015 19:04:19

## Highest Channel / QPSK



Date: 25 MAY 2015 19:10:53

## Highest Channel / 16QAM

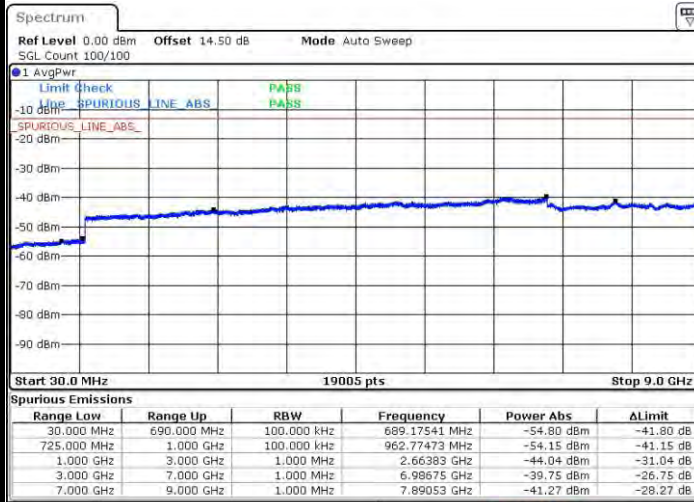


Date: 25 MAY 2015 19:12:03



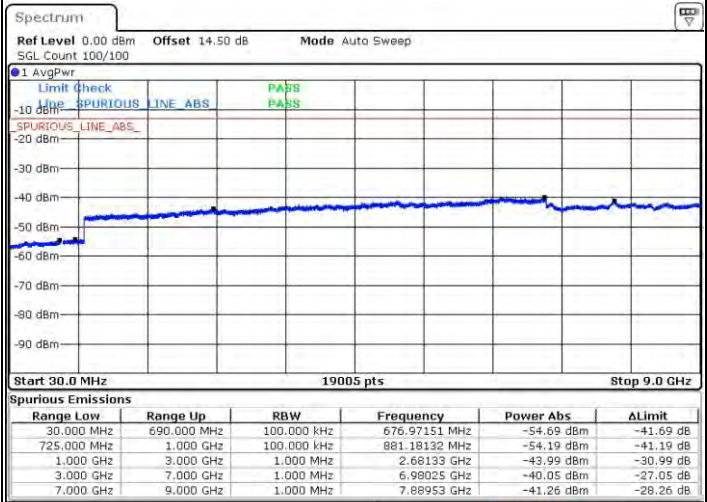
## LTE Band 17 / 5MHz

## Lowest Channel / QPSK



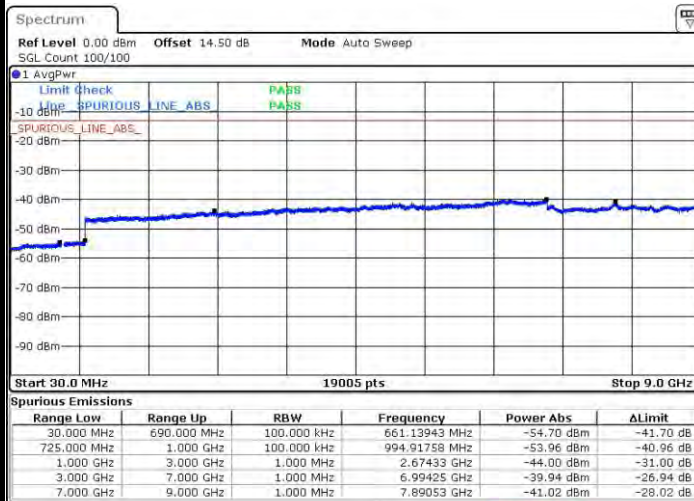
Date: 25 MAY 2015 12:53:14

## Lowest Channel / 16QAM



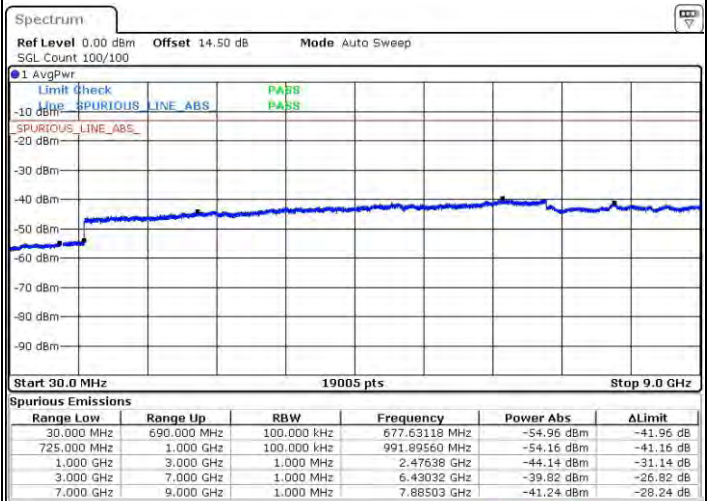
Date: 25 MAY 2015 13:22:17

## Middle Channel / QPSK



Date: 25 MAY 2015 13:24:13

## Middle Channel / 16QAM

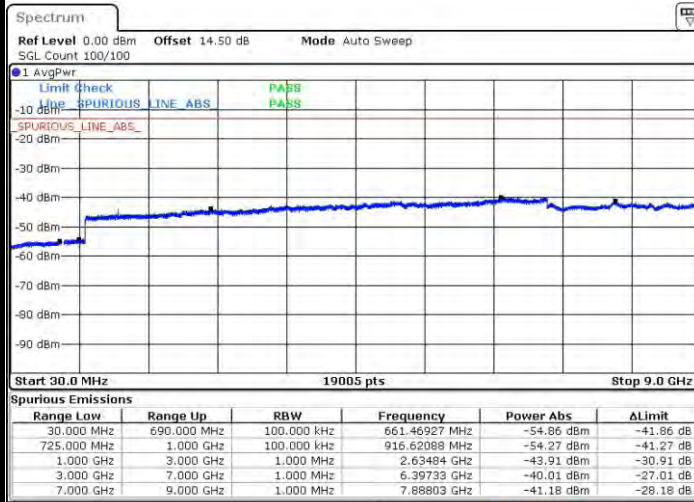


Date: 25 MAY 2015 13:25:22



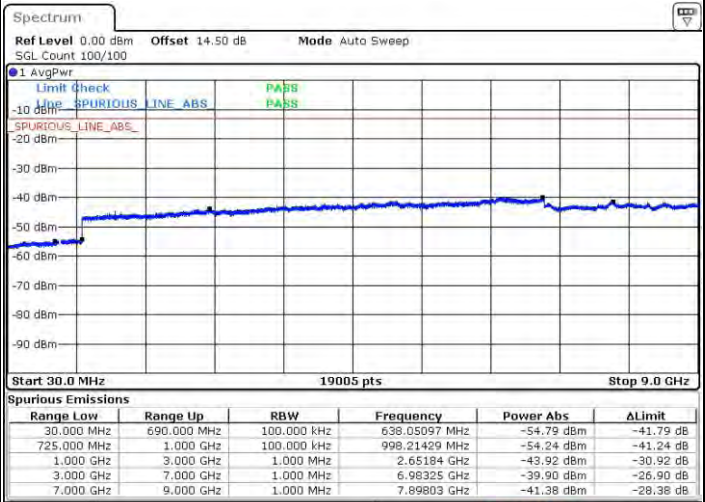
## LTE Band 17 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY.2015 13:32:01

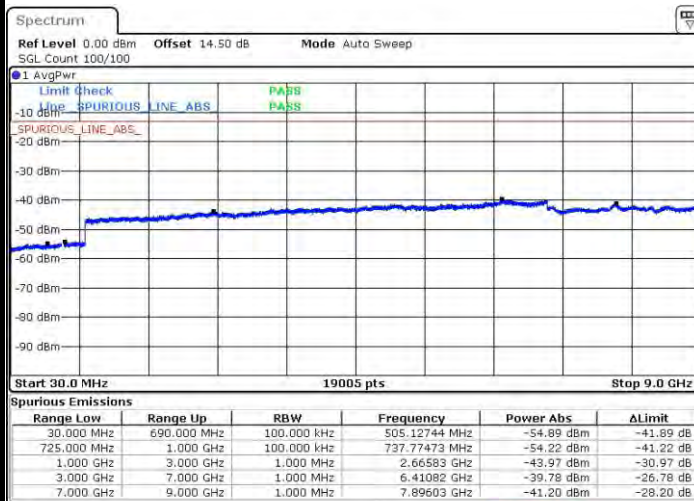
## Highest Channel / 16QAM



Date: 25 MAY.2015 13:33:10

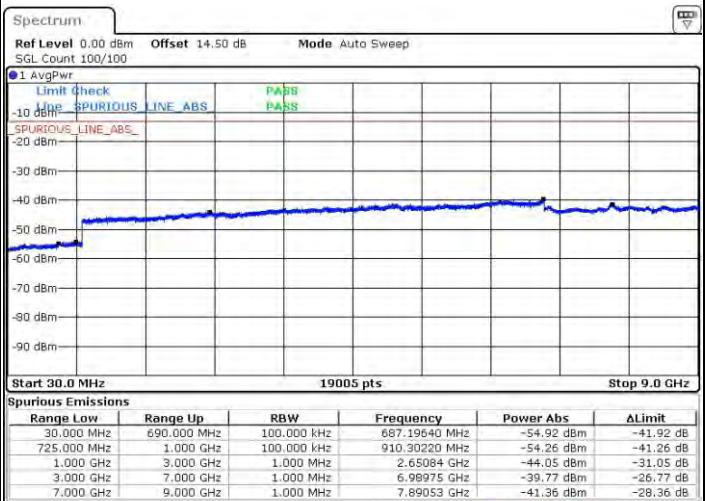
## LTE Band 17 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY.2015 13:39:55

## Lowest Channel / 16QAM

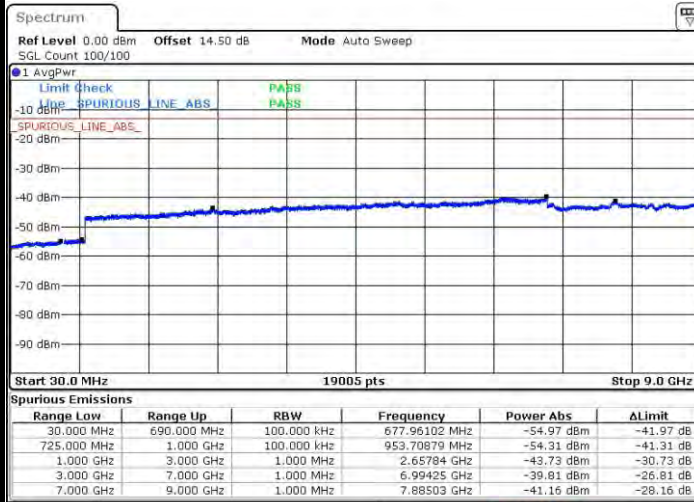


Date: 25 MAY.2015 13:41:04



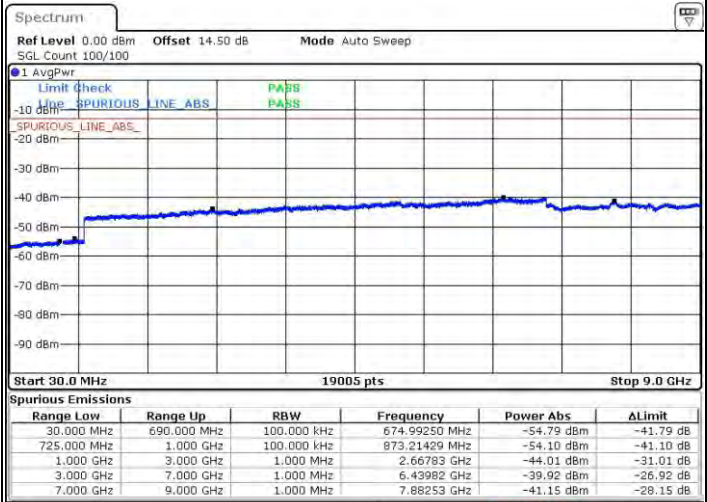
## LTE Band 17 / 10MHz

## Middle Channel / QPSK



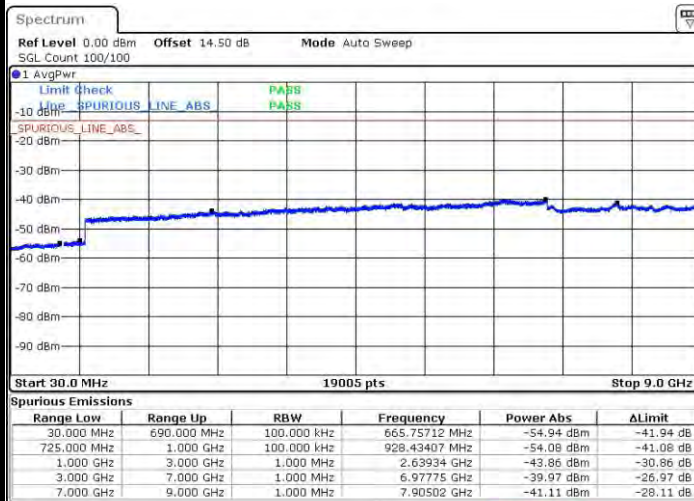
Date: 25 MAY 2015 13:43:07

## Middle Channel / 16QAM



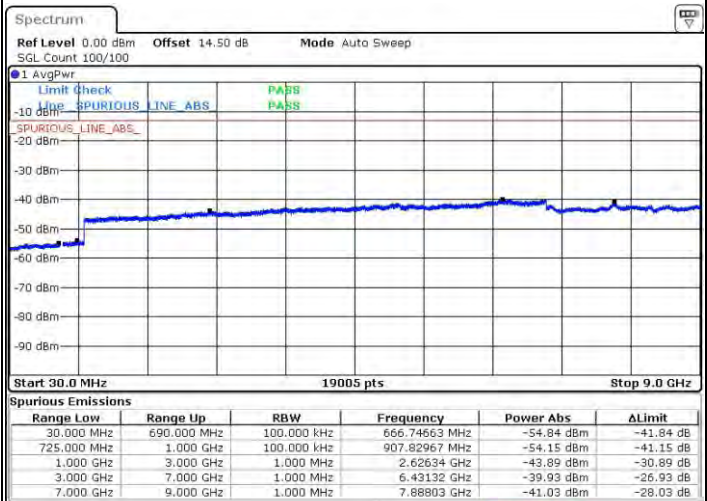
Date: 25 MAY 2015 13:44:18

## Highest Channel / QPSK



Date: 25 MAY 2015 13:51:15

## Highest Channel / 16QAM



Date: 25 MAY 2015 13:52:24

## 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    | 0.0080                             | PASS    |
| 40               | Normal Voltage    | 0.0074                             |         |
| 30               | Normal Voltage    | 0.0005                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0000                             |         |
| 0                | Normal Voltage    | 0.0090                             |         |
| -10              | Normal Voltage    | 0.0080                             |         |
| -20              | Normal Voltage    | 0.0000                             |         |
| -30              | Normal Voltage    | 0.0085                             |         |
| 20               | Maximum Voltage   | 0.0005                             |         |
| 20               | Normal Voltage    | 0.0005                             |         |
| 20               | Battery End Point | 0.0000                             |         |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions     |                   | LTE Band 4 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation<br>(ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0017                             | PASS    |
| 40                  | Normal Voltage    | 0.0006                             |         |
| 30                  | Normal Voltage    | 0.0000                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0012                             |         |
| 0                   | Normal Voltage    | 0.0000                             |         |
| -10                 | Normal Voltage    | 0.0012                             |         |
| -20                 | Normal Voltage    | 0.0000                             |         |
| -30                 | Normal Voltage    | 0.0006                             |         |
| 20                  | Maximum Voltage   | 0.0012                             |         |
| 20                  | Normal Voltage    | 0.0000                             |         |
| 20                  | Battery End Point | 0.0000                             |         |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

| Test Conditions  |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0000                             | PASS    |
| 40               | Normal Voltage    | 0.0008                             |         |
| 30               | Normal Voltage    | 0.0004                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0008                             |         |
| 0                | Normal Voltage    | 0.0012                             |         |
| -10              | Normal Voltage    | 0.0004                             |         |
| -20              | Normal Voltage    | 0.0008                             |         |
| -30              | Normal Voltage    | 0.0004                             |         |
| 20               | Maximum Voltage   | 0.0000                             |         |
| 20               | Normal Voltage    | 0.0008                             |         |
| 20               | Battery End Point | 0.0004                             |         |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions  |                   | LTE Band 17 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0127                              | PASS    |
| 40               | Normal Voltage    | 0.0113                              |         |
| 30               | Normal Voltage    | 0.0014                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0014                              |         |
| 0                | Normal Voltage    | 0.0113                              |         |
| -10              | Normal Voltage    | 0.0099                              |         |
| -20              | Normal Voltage    | 0.0014                              |         |
| -30              | Normal Voltage    | 0.0099                              |         |
| 20               | Maximum Voltage   | 0.0000                              |         |
| 20               | Normal Voltage    | 0.0014                              |         |
| 20               | Battery End Point | 0.0028                              |         |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## **Appendix B. Test Results of Radiated Test**

**ERP/EIRP**

| LTE Band 2 / 1.4MHz (Average) |            |      |        |            |         |           |         |
|-------------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                       | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                               |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                        | QPSK       | 1    | 0      | 25.99      | 0.3972  | 24.06     | 0.2547  |
| Middle                        |            | 1    | 0      | 25.69      | 0.3707  | 24.65     | 0.2917  |
| Highest                       |            | 1    | 0      | 24.88      | 0.3076  | 24.23     | 0.2649  |
| Lowest                        | 16QAM      | 1    | 0      | 25.36      | 0.3436  | 23.69     | 0.2339  |
| Middle                        |            | 1    | 0      | 25.64      | 0.3664  | 24.73     | 0.2972  |
| Highest                       |            | 1    | 0      | 24.55      | 0.2851  | 23.91     | 0.2460  |
| Limit                         | EIRP < 2W  |      |        | Result     |         | PASS      |         |

| LTE Band 2 / 3MHz (Average) |            |      |        |            |         |           |         |
|-----------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                     | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                             |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                      | QPSK       | 1    | 0      | 26.11      | 0.4083  | 24.13     | 0.2588  |
| Middle                      |            | 1    | 0      | 25.81      | 0.3811  | 24.87     | 0.3069  |
| Highest                     |            | 1    | 0      | 25.62      | 0.3648  | 25.14     | 0.3266  |
| Lowest                      | 16QAM      | 1    | 0      | 25.25      | 0.3350  | 23.79     | 0.2393  |
| Middle                      |            | 1    | 0      | 25.54      | 0.3581  | 24.36     | 0.2729  |
| Highest                     |            | 1    | 0      | 24.46      | 0.2793  | 23.74     | 0.2366  |
| Limit                       | EIRP < 2W  |      |        | Result     |         | PASS      |         |

| LTE Band 2 / 5MHz (Average) |            |      |        |            |         |           |         |
|-----------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                     | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                             |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                      | QPSK       | 1    | 0      | 26.39      | 0.4355  | 24.64     | 0.2911  |
| Middle                      |            | 1    | 0      | 26.22      | 0.4188  | 25.08     | 0.3221  |
| Highest                     |            | 1    | 0      | 25.62      | 0.3648  | 24.95     | 0.3126  |
| Lowest                      | 16QAM      | 1    | 0      | 25.60      | 0.3631  | 23.89     | 0.2449  |
| Middle                      |            | 1    | 0      | 24.78      | 0.3006  | 23.96     | 0.2489  |
| Highest                     |            | 1    | 0      | 25.20      | 0.3311  | 24.56     | 0.2858  |
| Limit                       | EIRP < 2W  |      |        | Result     |         | PASS      |         |



| LTE Band 2 / 10MHz (Average) |            |      |        |            |         |           |         |
|------------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                      | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                              |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                       | QPSK       | 1    | 0      | 26.44      | 0.4406  | 24.28     | 0.2679  |
| Middle                       |            | 1    | 0      | 26.24      | 0.4207  | 24.93     | 0.3112  |
| Highest                      |            | 1    | 0      | 26.32      | 0.4285  | 25.62     | 0.3648  |
| Lowest                       | 16QAM      | 1    | 0      | 25.30      | 0.3388  | 23.61     | 0.2296  |
| Middle                       |            | 1    | 0      | 25.45      | 0.3508  | 24.55     | 0.2851  |
| Highest                      |            | 1    | 0      | 25.57      | 0.3606  | 25.10     | 0.3236  |
| Limit                        | EIRP < 2W  |      |        | Result     |         | PASS      |         |

| LTE Band 2 / 15MHz (Average) |            |      |        |            |         |           |         |
|------------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                      | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                              |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                       | QPSK       | 1    | 0      | 26.25      | 0.4217  | 24.27     | 0.2673  |
| Middle                       |            | 1    | 0      | 26.44      | 0.4406  | 25.11     | 0.3243  |
| Highest                      |            | 1    | 0      | 26.51      | 0.4477  | 25.88     | 0.3873  |
| Lowest                       | 16QAM      | 1    | 0      | 25.76      | 0.3767  | 23.93     | 0.2472  |
| Middle                       |            | 1    | 0      | 25.54      | 0.3581  | 24.64     | 0.2911  |
| Highest                      |            | 1    | 0      | 25.53      | 0.3573  | 25.13     | 0.3258  |
| Limit                        | EIRP < 2W  |      |        | Result     |         | PASS      |         |

| LTE Band 2 / 20MHz (Average) |            |      |        |            |         |           |         |
|------------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                      | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                              |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                       | QPSK       | 1    | 0      | 26.20      | 0.4169  | 24.61     | 0.2891  |
| Middle                       |            | 1    | 0      | 26.18      | 0.4150  | 24.88     | 0.3076  |
| Highest                      |            | 1    | 0      | 26.41      | 0.4375  | 25.59     | 0.3622  |
| Lowest                       | 16QAM      | 1    | 0      | 25.98      | 0.3963  | 23.77     | 0.2382  |
| Middle                       |            | 1    | 0      | 25.48      | 0.3532  | 24.13     | 0.2588  |
| Highest                      |            | 1    | 0      | 25.39      | 0.3459  | 24.84     | 0.3048  |
| Limit                        | EIRP < 2W  |      |        | Result     |         | PASS      |         |

| LTE Band 4 / 1.4MHz (Average) |            |      |        |            |         |           |         |
|-------------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                       | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                               |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                        | QPSK       | 1    | 0      | 24.52      | 0.2831  | 24.20     | 0.2630  |
| Middle                        |            | 1    | 0      | 25.46      | 0.3516  | 25.27     | 0.3365  |
| Highest                       |            | 1    | 0      | 25.68      | 0.3698  | 25.22     | 0.3327  |
| Lowest                        | 16QAM      | 1    | 0      | 23.96      | 0.2489  | 23.53     | 0.2254  |
| Middle                        |            | 1    | 0      | 24.93      | 0.3112  | 24.84     | 0.3048  |
| Highest                       |            | 1    | 0      | 23.11      | 0.2046  | 21.94     | 0.1563  |
| Limit                         | EIRP < 1W  |      |        | Result     |         | PASS      |         |

| LTE Band 4 / 3MHz (Average) |            |      |        |            |         |           |         |
|-----------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                     | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                             |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                      | QPSK       | 1    | 0      | 24.51      | 0.2825  | 23.98     | 0.2500  |
| Middle                      |            | 1    | 0      | 25.58      | 0.3614  | 25.48     | 0.3532  |
| Highest                     |            | 1    | 0      | 25.76      | 0.3767  | 25.29     | 0.3381  |
| Lowest                      | 16QAM      | 1    | 0      | 23.83      | 0.2415  | 23.45     | 0.2213  |
| Middle                      |            | 1    | 0      | 24.55      | 0.2851  | 25.16     | 0.3281  |
| Highest                     |            | 1    | 0      | 25.02      | 0.3177  | 25.01     | 0.3170  |
| Limit                       | EIRP < 1W  |      |        | Result     |         | PASS      |         |

| LTE Band 4 / 5MHz (Average) |            |      |        |            |         |           |         |
|-----------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                     | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                             |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                      | QPSK       | 1    | 0      | 24.57      | 0.2864  | 23.95     | 0.2483  |
| Middle                      |            | 1    | 0      | 25.52      | 0.3565  | 25.27     | 0.3365  |
| Highest                     |            | 1    | 0      | 25.36      | 0.3436  | 25.18     | 0.3296  |
| Lowest                      | 16QAM      | 1    | 0      | 23.80      | 0.2399  | 23.28     | 0.2128  |
| Middle                      |            | 1    | 0      | 24.76      | 0.2992  | 24.54     | 0.2844  |
| Highest                     |            | 1    | 0      | 24.69      | 0.2944  | 24.05     | 0.2541  |
| Limit                       | EIRP < 1W  |      |        | Result     |         | PASS      |         |



| LTE Band 4/ 10MHz (Average) |            |      |        |            |         |           |         |
|-----------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                     | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                             |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                      | QPSK       | 1    | 0      | 24.74      | 0.2979  | 24.52     | 0.2831  |
| Middle                      |            | 1    | 0      | 25.57      | 0.3606  | 25.40     | 0.3467  |
| Highest                     |            | 1    | 0      | 25.75      | 0.3758  | 25.27     | 0.3365  |
| Lowest                      | 16QAM      | 1    | 0      | 23.92      | 0.2466  | 23.47     | 0.2223  |
| Middle                      |            | 1    | 0      | 24.82      | 0.3034  | 24.66     | 0.2924  |
| Highest                     |            | 1    | 0      | 25.16      | 0.3281  | 24.56     | 0.2858  |
| Limit                       | EIRP < 1W  |      |        | Result     |         | PASS      |         |

| LTE Band 4 / 15MHz (Average) |            |      |        |            |         |           |         |
|------------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                      | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                              |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                       | QPSK       | 1    | 0      | 24.51      | 0.2825  | 24.19     | 0.2624  |
| Middle                       |            | 1    | 0      | 25.54      | 0.3581  | 25.46     | 0.3516  |
| Highest                      |            | 1    | 0      | 25.78      | 0.3784  | 25.37     | 0.3443  |
| Lowest                       | 16QAM      | 1    | 0      | 23.93      | 0.2472  | 23.63     | 0.2307  |
| Middle                       |            | 1    | 0      | 24.89      | 0.3083  | 24.93     | 0.3112  |
| Highest                      |            | 1    | 0      | 24.63      | 0.2904  | 24.88     | 0.3076  |
| Limit                        | EIRP < 1W  |      |        | Result     |         | PASS      |         |

| LTE Band 4 / 20MHz (Average) |            |      |        |            |         |           |         |
|------------------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel                      | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                              |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest                       | QPSK       | 1    | 0      | 26.64      | 0.4613  | 24.38     | 0.2742  |
| Middle                       |            | 1    | 0      | 25.69      | 0.3707  | 25.60     | 0.3631  |
| Highest                      |            | 1    | 0      | 26.13      | 0.4102  | 25.72     | 0.3733  |
| Lowest                       | 16QAM      | 1    | 0      | 24.03      | 0.2529  | 23.90     | 0.2455  |
| Middle                       |            | 1    | 0      | 25.18      | 0.3296  | 24.48     | 0.2805  |
| Highest                      |            | 1    | 0      | 24.60      | 0.2884  | 24.98     | 0.3148  |
| Limit                        | EIRP < 1W  |      |        | Result     |         | PASS      |         |



| LTE Band 7 / 5MHz |            |      |        |            |         |           |         |
|-------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel           | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                   |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest            | QPSK       | 1    | 0      | 23.15      | 0.2065  | 14.09     | 0.0256  |
| Middle            |            | 1    | 0      | 23.07      | 0.2028  | 15.09     | 0.0323  |
| Highest           |            | 1    | 0      | 22.94      | 0.1968  | 15.85     | 0.0385  |
| Lowest            | 16QAM      | 1    | 0      | 22.57      | 0.1807  | 13.37     | 0.0217  |
| Middle            |            | 1    | 0      | 22.78      | 0.1897  | 14.73     | 0.0297  |
| Highest           |            | 1    | 0      | 22.33      | 0.1710  | 15.01     | 0.0317  |
| Limit             | EIRP < 2W  |      |        | Result     |         | PASS      |         |

| LTE Band 7 / 10MHz |            |      |        |            |         |           |         |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel            | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                    |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest             | QPSK       | 1    | 0      | 23.48      | 0.2228  | 14.21     | 0.0264  |
| Middle             |            | 1    | 0      | 22.92      | 0.1959  | 14.84     | 0.0305  |
| Highest            |            | 1    | 0      | 22.98      | 0.1986  | 16.02     | 0.0400  |
| Lowest             | 16QAM      | 1    | 0      | 22.52      | 0.1786  | 12.96     | 0.0198  |
| Middle             |            | 1    | 0      | 22.12      | 0.1629  | 14.17     | 0.0261  |
| Highest            |            | 1    | 0      | 22.02      | 0.1592  | 15.19     | 0.0330  |
| Limit              | EIRP < 2W  |      |        | Result     |         | PASS      |         |



| LTE Band 7 / 15MHz |            |      |        |            |         |           |         |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel            | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                    |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest             | QPSK       | 1    | 0      | 23.25      | 0.2113  | 13.78     | 0.0239  |
| Middle             |            | 1    | 0      | 22.52      | 0.1786  | 14.30     | 0.0269  |
| Highest            |            | 1    | 0      | 22.89      | 0.1945  | 15.75     | 0.0376  |
| Lowest             | 16QAM      | 1    | 0      | 22.81      | 0.1910  | 13.54     | 0.0226  |
| Middle             |            | 1    | 0      | 21.83      | 0.1524  | 13.86     | 0.0243  |
| Highest            |            | 1    | 0      | 22.31      | 0.1702  | 15.13     | 0.0326  |
| Limit              | EIRP < 2W  |      |        | Result     |         | PASS      |         |

| LTE Band 7 / 20MHz |            |      |        |            |         |           |         |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel            | Modulation | RB   |        | Horizontal |         | Vertical  |         |
|                    |            | Size | Offset | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest             | QPSK       | 1    | 0      | 23.35      | 0.2163  | 13.85     | 0.0243  |
| Middle             |            | 1    | 0      | 22.67      | 0.1849  | 14.72     | 0.0296  |
| Highest            |            | 1    | 0      | 23.39      | 0.2183  | 16.34     | 0.0431  |
| Lowest             | 16QAM      | 1    | 0      | 23.06      | 0.2023  | 13.58     | 0.0228  |
| Middle             |            | 1    | 0      | 22.38      | 0.1730  | 14.25     | 0.0266  |
| Highest            |            | 1    | 0      | 22.47      | 0.1766  | 15.40     | 0.0347  |
| Limit              | EIRP < 2W  |      |        | Result     |         | PASS      |         |



| LTE Band 17 / 5MHz |            |      |        |            |        |          |        |
|--------------------|------------|------|--------|------------|--------|----------|--------|
| Channel            | Modulation | RB   |        | Horizontal |        | Vertical |        |
|                    |            | Size | Offset | ERP(dBm)   | ERP(W) | ERP(dBm) | ERP(W) |
| Lowest             | QPSK       | 1    | 0      | 15.84      | 0.0384 | 3.71     | 0.0023 |
| Middle             |            | 1    | 0      | 15.94      | 0.0393 | 3.52     | 0.0022 |
| Highest            |            | 1    | 0      | 16.07      | 0.0405 | 4.41     | 0.0028 |
| Lowest             | 16QAM      | 1    | 0      | 15.36      | 0.0344 | 3.25     | 0.0021 |
| Middle             |            | 1    | 0      | 15.24      | 0.0334 | 3.26     | 0.0021 |
| Highest            |            | 1    | 0      | 15.46      | 0.0352 | 3.60     | 0.0023 |
| Limit              | ERP < 3W   |      |        | Result     |        | PASS     |        |

| LTE Band 17 / 10MHz |            |      |        |            |        |          |        |
|---------------------|------------|------|--------|------------|--------|----------|--------|
| Channel             | Modulation | RB   |        | Horizontal |        | Vertical |        |
|                     |            | Size | Offset | ERP(dBm)   | ERP(W) | ERP(dBm) | ERP(W) |
| Lowest              | QPSK       | 1    | 0      | 17.00      | 0.0501 | 3.53     | 0.0023 |
| Middle              |            | 1    | 0      | 16.46      | 0.0443 | 3.16     | 0.0021 |
| Highest             |            | 1    | 0      | 16.50      | 0.0447 | 3.31     | 0.0021 |
| Lowest              | 16QAM      | 1    | 0      | 15.94      | 0.0393 | 2.55     | 0.0018 |
| Middle              |            | 1    | 0      | 15.81      | 0.0381 | 2.90     | 0.0019 |
| Highest             |            | 1    | 0      | 15.76      | 0.0377 | 2.31     | 0.0017 |
| Limit               | ERP < 3W   |      |        | Result     |        | PASS     |        |



## **Radiated Spurious Emission**



| LTE Band 2 / 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                                          | 3759                 | -50.93          | -13              | -37.93                  | -65.13                  | -55.53                   | 3                          | 7.60                        | H                     |
|                                                 | 5637                 | -47.08          | -13              | -34.08                  | -60.87                  | -53.34                   | 3.84                       | 10.10                       | H                     |
|                                                 | 7518                 | -42.00          | -13              | -29.00                  | -61.78                  | -49.50                   | 4.43                       | 11.93                       | H                     |
|                                                 | 3759                 | -52.17          | -13              | -39.17                  | -64.66                  | -56.77                   | 3                          | 7.60                        | V                     |
|                                                 | 5637                 | -49.76          | -13              | -36.76                  | -62.17                  | -56.02                   | 3.84                       | 10.10                       | V                     |
|                                                 | 7518                 | -45.27          | -13              | -32.27                  | -63.06                  | -52.77                   | 4.43                       | 11.93                       | V                     |

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

| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                       | Frequency<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                                        | 3756                 | -51.50          | -13              | -38.50                  | -65.70                  | -56.10                   | 3                          | 7.60                        | H                     |
|                                               | 5637                 | -45.94          | -13              | -32.94                  | -59.73                  | -52.20                   | 3.84                       | 10.10                       | H                     |
|                                               | 7515                 | -42.60          | -13              | -29.60                  | -62.38                  | -50.10                   | 4.43                       | 11.93                       | H                     |
|                                               | 3756                 | -52.02          | -13              | -39.02                  | -64.51                  | -56.62                   | 3                          | 7.60                        | V                     |
|                                               | 5637                 | -47.63          | -13              | -34.63                  | -60.04                  | -53.89                   | 3.84                       | 10.10                       | V                     |
|                                               | 7515                 | -44.97          | -13              | -31.97                  | -62.76                  | -52.47                   | 4.43                       | 11.93                       | V                     |

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



| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                       | Frequency<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                                        | 3756                 | -51.97          | -13              | -38.97                  | -66.17                  | -56.57                   | 3                          | 7.60                        | H                     |
|                                               | 5634                 | -47.28          | -13              | -34.28                  | -61.07                  | -53.54                   | 3.84                       | 10.10                       | H                     |
|                                               | 7512                 | -42.32          | -13              | -29.32                  | -62.10                  | -49.82                   | 4.43                       | 11.93                       | H                     |
|                                               | 3756                 | -52.43          | -13              | -39.43                  | -64.92                  | -57.03                   | 3                          | 7.60                        | V                     |
|                                               | 5634                 | -48.04          | -13              | -35.04                  | -60.45                  | -54.30                   | 3.84                       | 10.10                       | V                     |
|                                               | 7512                 | -45.34          | -13              | -32.34                  | -63.13                  | -52.84                   | 4.43                       | 11.93                       | V                     |

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

| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<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                                         | 3750                 | -49.44          | -13              | -36.44                  | -63.64                  | -54.04                   | 3                          | 7.60                        | H                     |
|                                                | 5628                 | -45.47          | -13              | -32.47                  | -59.26                  | -51.73                   | 3.84                       | 10.10                       | H                     |
|                                                | 7503                 | -43.98          | -13              | -30.98                  | -63.76                  | -51.48                   | 4.43                       | 11.93                       | H                     |
|                                                | 3750                 | -50.74          | -13              | -37.74                  | -63.23                  | -55.34                   | 3                          | 7.60                        | V                     |
|                                                | 5628                 | -47.31          | -13              | -34.31                  | -59.72                  | -53.57                   | 3.84                       | 10.10                       | V                     |
|                                                | 7503                 | -44.63          | -13              | -31.63                  | -62.42                  | -52.13                   | 4.43                       | 11.93                       | V                     |

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



| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<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                                         | 3747                 | -51.97          | -13              | -38.97                  | -66.17                  | -56.57                   | 3                          | 7.60                        | H                     |
|                                                | 5622                 | -46.90          | -13              | -33.90                  | -60.69                  | -53.16                   | 3.84                       | 10.10                       | H                     |
|                                                | 7494                 | -42.12          | -13              | -29.12                  | -61.90                  | -49.62                   | 4.43                       | 11.93                       | H                     |
|                                                | 3747                 | -53.39          | -13              | -40.39                  | -65.88                  | -57.99                   | 3                          | 7.60                        | V                     |
|                                                | 5622                 | -49.12          | -13              | -36.12                  | -61.53                  | -55.38                   | 3.84                       | 10.10                       | V                     |
|                                                | 7494                 | -43.49          | -13              | -30.49                  | -61.28                  | -50.99                   | 4.43                       | 11.93                       | V                     |

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

| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<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                                         | 3741                 | -51.52          | -13              | -38.52                  | -65.72                  | -56.12                   | 3                          | 7.60                        | H                     |
|                                                | 5613                 | -47.09          | -13              | -34.09                  | -60.88                  | -53.35                   | 3.84                       | 10.10                       | H                     |
|                                                | 7485                 | -42.65          | -13              | -29.65                  | -62.43                  | -50.15                   | 4.43                       | 11.93                       | H                     |
|                                                | 3741                 | -53.42          | -13              | -40.42                  | -65.91                  | -58.02                   | 3                          | 7.60                        | V                     |
|                                                | 5613                 | -48.80          | -13              | -35.80                  | -61.21                  | -55.06                   | 3.84                       | 10.10                       | V                     |
|                                                | 7485                 | -45.26          | -13              | -32.26                  | -63.05                  | -52.76                   | 4.43                       | 11.93                       | V                     |

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



| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<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                 | -51.66          | -13              | -38.66                  | -65.79                  | -56.03                   | 3.12                       | 7.49                        | H                     |
|                                                 | 5196                 | -48.85          | -13              | -35.85                  | -62.00                  | -54.65                   | 3.65                       | 9.45                        | H                     |
|                                                 | 6927                 | -44.72          | -13              | -31.72                  | -61.58                  | -51.92                   | 4.15                       | 11.35                       | H                     |
|                                                 | 3465                 | -49.96          | -13              | -36.96                  | -62.78                  | -54.33                   | 3.12                       | 7.49                        | V                     |
|                                                 | 5196                 | -47.69          | -13              | -34.69                  | -61.7                   | -53.49                   | 3.65                       | 9.45                        | V                     |
|                                                 | 6927                 | -46.74          | -13              | -33.74                  | -61.99                  | -53.94                   | 4.15                       | 11.35                       | 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                 | -51.43          | -13              | -38.43                  | -65.56                  | -55.80                   | 3.12                       | 7.49                        | H                     |
|                                               | 5193                 | -47.84          | -13              | -34.84                  | -60.99                  | -53.64                   | 3.65                       | 9.45                        | H                     |
|                                               | 6924                 | -43.94          | -13              | -30.94                  | -60.80                  | -51.14                   | 4.15                       | 11.35                       | H                     |
|                                               | 3462                 | -49.83          | -13              | -36.83                  | -62.65                  | -54.20                   | 3.12                       | 7.49                        | V                     |
|                                               | 5193                 | -48.55          | -13              | -35.55                  | -62.56                  | -54.35                   | 3.65                       | 9.45                        | V                     |
|                                               | 6924                 | -46.97          | -13              | -33.97                  | -62.22                  | -54.17                   | 4.15                       | 11.35                       | 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<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                 | -52.01          | -13              | -39.01                  | -66.14                  | -56.38                   | 3.12                       | 7.49                        | H                     |
|                                               | 5193                 | -46.18          | -13              | -33.18                  | -59.33                  | -51.98                   | 3.65                       | 9.45                        | H                     |
|                                               | 6921                 | -44.77          | -13              | -31.77                  | -61.63                  | -51.97                   | 4.15                       | 11.35                       | H                     |
|                                               | 3462                 | -52.37          | -13              | -39.37                  | -65.19                  | -56.74                   | 3.12                       | 7.49                        | V                     |
|                                               | 5191                 | -48.16          | -13              | -35.16                  | -62.17                  | -53.96                   | 3.65                       | 9.45                        | V                     |
|                                               | 6921                 | -47.19          | -13              | -34.19                  | -62.44                  | -54.39                   | 4.15                       | 11.35                       | 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<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                                         | 3456                 | -49.53          | -13              | -36.53                  | -63.66                  | -53.90                   | 3.12                       | 7.49                        | H                     |
|                                                | 5187                 | -45.86          | -13              | -32.86                  | -59.01                  | -51.66                   | 3.65                       | 9.45                        | H                     |
|                                                | 6912                 | -44.21          | -13              | -31.21                  | -61.07                  | -51.41                   | 4.15                       | 11.35                       | H                     |
|                                                | 3456                 | -46.19          | -13              | -33.19                  | -60.32                  | -50.56                   | 3.12                       | 7.49                        | V                     |
|                                                | 5184                 | -46.82          | -13              | -33.82                  | -60.83                  | -52.62                   | 3.65                       | 9.45                        | V                     |
|                                                | 6912                 | -45.88          | -13              | -32.88                  | -61.13                  | -53.08                   | 4.15                       | 11.35                       | 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<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                                         | 3453                 | -50.92          | -13              | -37.92                  | -65.05                  | -55.29                   | 3.12                       | 7.49                        | H                     |
|                                                | 5178                 | -46.13          | -13              | -33.13                  | -59.28                  | -51.93                   | 3.65                       | 9.45                        | H                     |
|                                                | 6903                 | -44.78          | -13              | -31.78                  | -61.64                  | -51.98                   | 4.15                       | 11.35                       | H                     |
|                                                | 3453                 | -52.61          | -13              | -39.61                  | -65.43                  | -56.98                   | 3.12                       | 7.49                        | V                     |
|                                                | 5178                 | -44.67          | -13              | -31.67                  | -58.68                  | -50.47                   | 3.65                       | 9.45                        | V                     |
|                                                | 6903                 | -46.45          | -13              | -33.45                  | -61.7                   | -53.65                   | 4.15                       | 11.35                       | 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<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                                         | 3447                 | -49.21          | -13              | -36.21                  | -63.34                  | -53.58                   | 3.12                       | 7.49                        | H                     |
|                                                | 5171                 | -49.16          | -13              | -36.16                  | -62.31                  | -54.96                   | 3.65                       | 9.45                        | H                     |
|                                                | 6894                 | -44.28          | -13              | -31.28                  | -61.14                  | -51.48                   | 4.15                       | 11.35                       | H                     |
|                                                | 3447                 | -49.79          | -13              | -36.79                  | -62.61                  | -54.16                   | 3.12                       | 7.49                        | V                     |
|                                                | 5171                 | -47.82          | -13              | -34.82                  | -61.83                  | -53.62                   | 3.65                       | 9.45                        | V                     |
|                                                | 6894                 | -45.55          | -13              | -32.55                  | -60.8                   | -52.75                   | 4.15                       | 11.35                       | V                     |

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



| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0 |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                       | Frequency<br>( MHz ) | ERP<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                                        | 5066                 | -36.24         | -25              | -11.24                  | -53.67                  | -42.02                   | 3.49                       | 9.27                        | H                     |
|                                               | 7598                 | -44.92         | -25              | -19.92                  | -61.46                  | -52.71                   | 4.28                       | 12.07                       | H                     |
|                                               | 10132                | -41.27         | -25              | -16.27                  | -62.66                  | -48.57                   | 5.1                        | 12.40                       | H                     |
|                                               | 5063                 | -30.74         | -25              | -5.74                   | -49.87                  | -36.52                   | 3.49                       | 9.27                        | V                     |
|                                               | 7598                 | -43.54         | -25              | -18.54                  | -60.56                  | -51.33                   | 4.28                       | 12.07                       | V                     |
|                                               | 10132                | -42.47         | -25              | -17.47                  | -63.57                  | -49.77                   | 5.1                        | 12.40                       | V                     |

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

| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<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                                         | 5060                 | -36.07          | -25              | -11.07                  | -53.52                  | -41.85                   | 3.49                       | 9.27                        | H                     |
|                                                | 7592                 | -45.25          | -25              | -20.25                  | -61.79                  | -53.04                   | 4.28                       | 12.07                       | H                     |
|                                                | 10120                | -41.18          | -25              | -16.18                  | -62.57                  | -48.48                   | 5.1                        | 12.40                       | H                     |
|                                                | 5060                 | -30.71          | -25              | -5.71                   | -49.85                  | -36.49                   | 3.49                       | 9.27                        | V                     |
|                                                | 7592                 | -44.05          | -25              | -19.05                  | -61.07                  | -51.84                   | 4.28                       | 12.07                       | V                     |
|                                                | 10120                | -41.67          | -25              | -16.67                  | -62.77                  | -48.97                   | 5.1                        | 12.40                       | V                     |

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



| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<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                                         | 5057                 | -40.36          | -25              | -15.36                  | -56.09                  | -46.14                   | 3.49                       | 9.27                        | H                     |
|                                                | 7586                 | -44.93          | -25              | -19.93                  | -61.47                  | -52.72                   | 4.28                       | 12.07                       | H                     |
|                                                | 10112                | -41.44          | -25              | -16.44                  | -62.83                  | -48.74                   | 5.1                        | 12.40                       | H                     |
|                                                | 5057                 | -33.02          | -25              | -8.02                   | -51.63                  | -38.80                   | 3.49                       | 9.27                        | V                     |
|                                                | 7586                 | -43.71          | -25              | -18.71                  | -60.73                  | -51.50                   | 4.28                       | 12.07                       | V                     |
|                                                | 10112                | -40.88          | -25              | -15.88                  | -61.98                  | -48.18                   | 5.1                        | 12.40                       | V                     |

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

| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<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                                         | 5051                 | -40.33          | -25              | -15.33                  | -56.07                  | -46.11                   | 3.49                       | 9.27                        | H                     |
|                                                | 7577                 | -45.11          | -25              | -20.11                  | -61.65                  | -52.90                   | 4.28                       | 12.07                       | H                     |
|                                                | 10104                | -42.52          | -25              | -17.52                  | -63.91                  | -49.82                   | 5.1                        | 12.40                       | H                     |
|                                                | 5051                 | -33.76          | -25              | -8.76                   | -52.17                  | -39.54                   | 3.49                       | 9.27                        | V                     |
|                                                | 7577                 | -45.32          | -25              | -20.32                  | -62.34                  | -53.11                   | 4.28                       | 12.07                       | V                     |
|                                                | 10104                | -40.88          | -25              | -15.88                  | -61.98                  | -48.18                   | 5.1                        | 12.40                       | V                     |

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



| LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0 |                      |                |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | ERP<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                                         | 1416                 | -60.06         | -13              | -47.06                  | -56.48                  | -61.04                   | 1.75                       | 4.88                        | H                     |
|                                                | 2124                 | -48.17         | -13              | -35.17                  | -55.82                  | -49.79                   | 2.16                       | 5.93                        | H                     |
|                                                | 2832                 | -53.08         | -13              | -40.08                  | -63.50                  | -55.11                   | 2.48                       | 6.66                        | H                     |
|                                                | 1416                 | -58.10         | -13              | -45.10                  | -56.57                  | -59.08                   | 1.75                       | 4.88                        | V                     |
|                                                | 2124                 | -51.85         | -13              | -38.85                  | -59.83                  | -53.47                   | 2.16                       | 5.93                        | V                     |
|                                                | 2832                 | -52.54         | -13              | -39.54                  | -64.05                  | -54.57                   | 2.48                       | 6.66                        | V                     |

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

| LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0 |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                         | Frequency<br>( MHz ) | ERP<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                                          | 1411                 | -59.68         | -13              | -46.68                  | -56.10                  | -60.66                   | 1.75                       | 4.88                        | H                     |
|                                                 | 2118                 | -51.66         | -13              | -38.66                  | -57.67                  | -53.28                   | 2.16                       | 5.93                        | H                     |
|                                                 | 2822                 | -53.79         | -13              | -40.79                  | -64.21                  | -55.82                   | 2.48                       | 6.66                        | H                     |
|                                                 | 1412                 | -58.29         | -13              | -45.29                  | -56.76                  | -59.27                   | 1.75                       | 4.88                        | V                     |
|                                                 | 2117                 | -51.72         | -13              | -38.72                  | -59.7                   | -53.34                   | 2.16                       | 5.93                        | V                     |
|                                                 | 2822                 | -52.79         | -13              | -39.79                  | -64.3                   | -54.82                   | 2.48                       | 6.66                        | V                     |

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