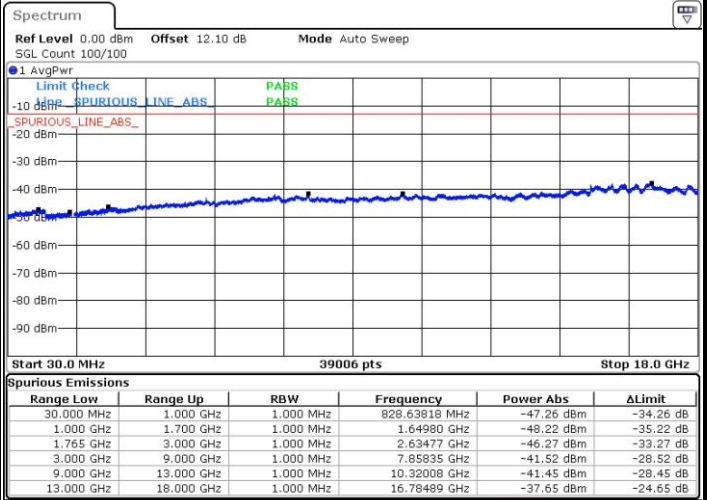
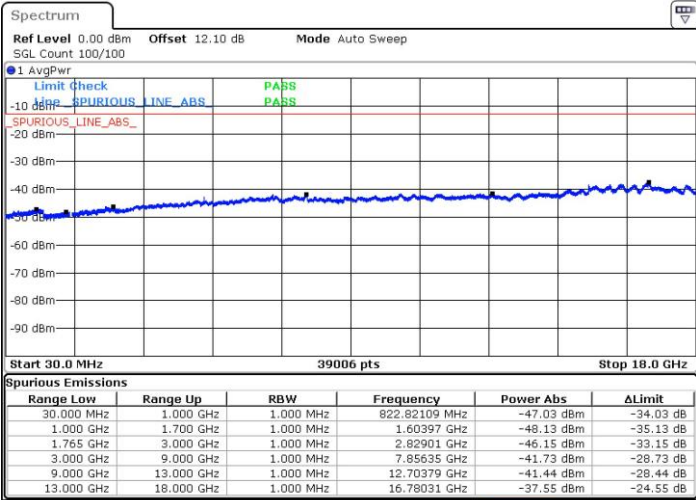




LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

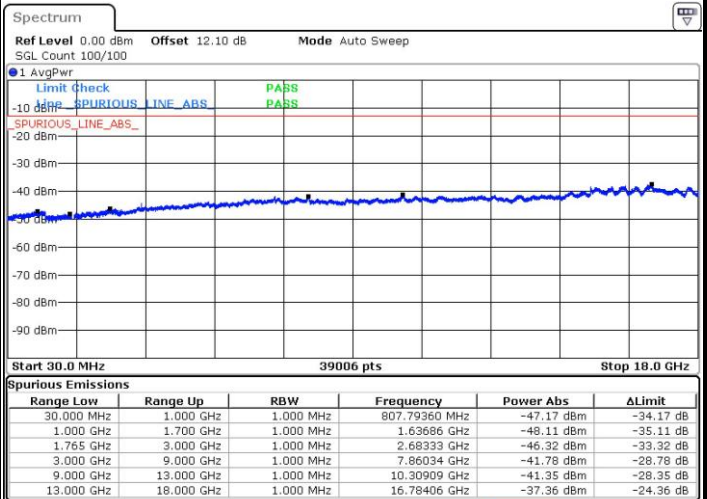
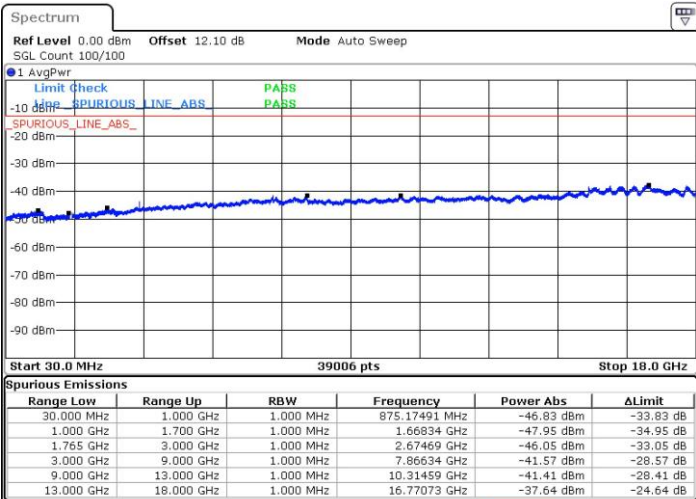


Date: 2.MAY.2015 11:03:05

Date: 2.MAY.2015 11:04:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.MAY.2015 11:05:25

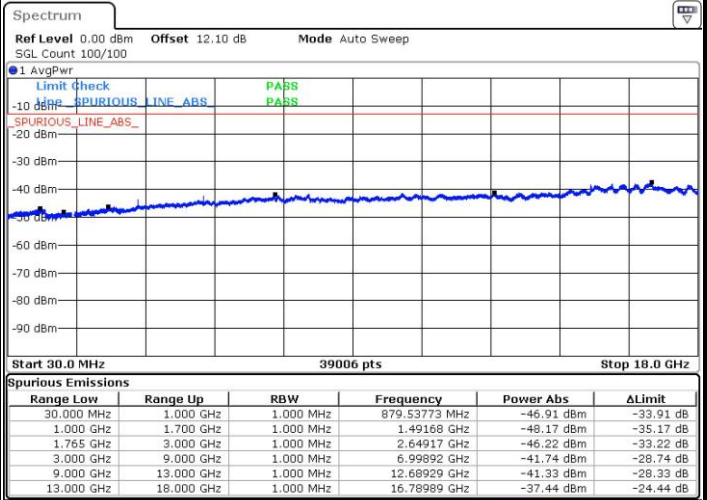
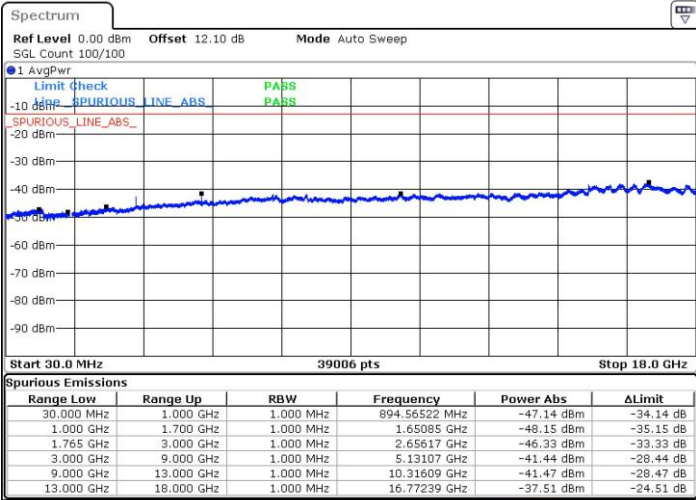
Date: 2.MAY.2015 11:06:35



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

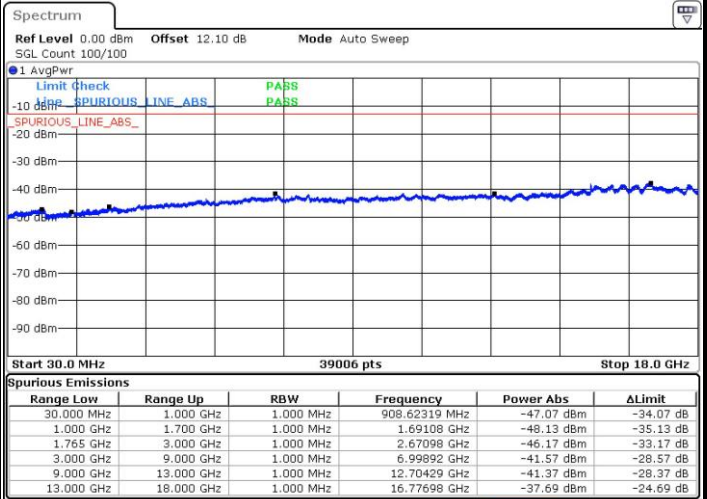
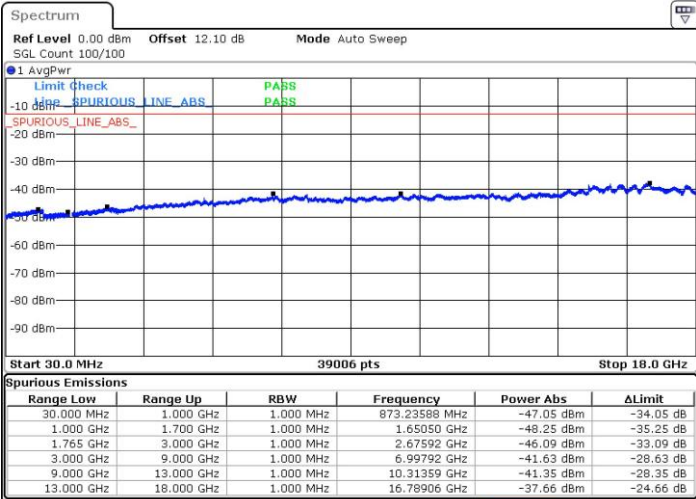


Date: 2.MAY.2015 11:07:45

Date: 2.MAY.2015 11:08:55

Middle Channel / QPSK

Middle Channel / 16QAM



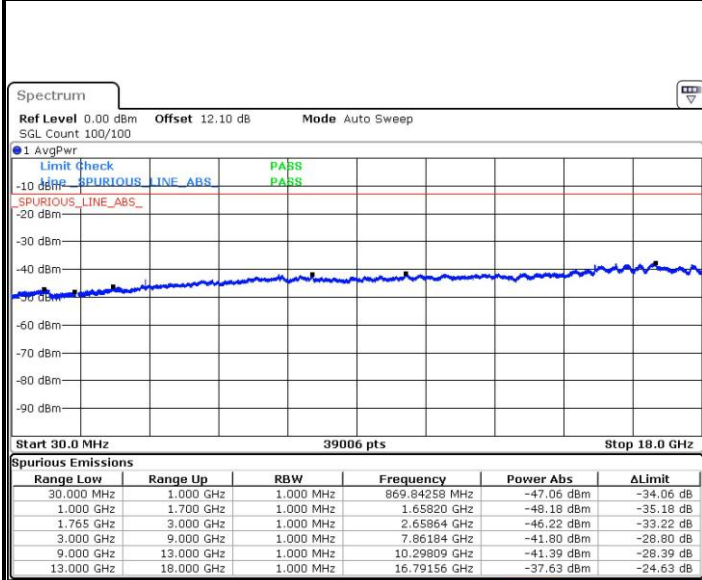
Date: 2.MAY.2015 11:10:06

Date: 2.MAY.2015 11:11:16



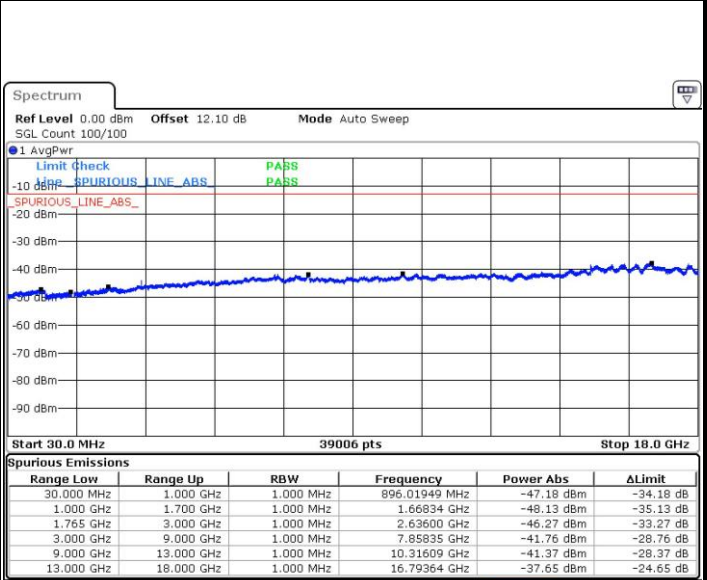
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 2.MAY.2015 11:12:26

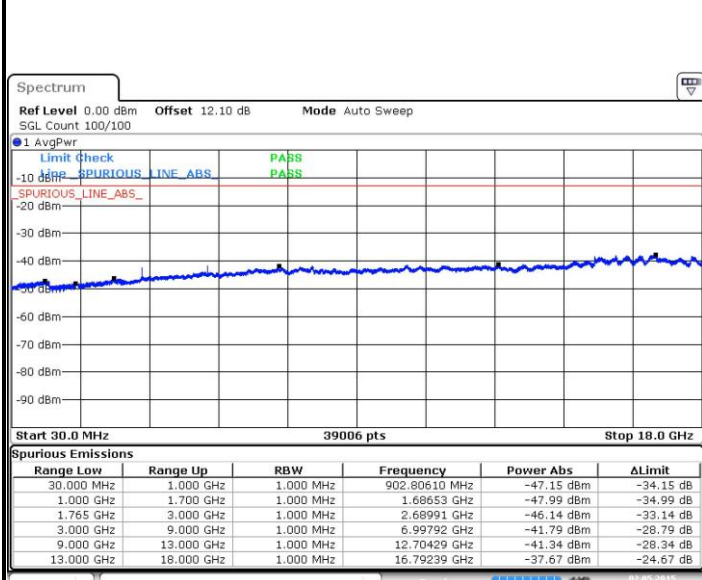
Highest Channel / 16QAM



Date: 2.MAY.2015 11:13:36

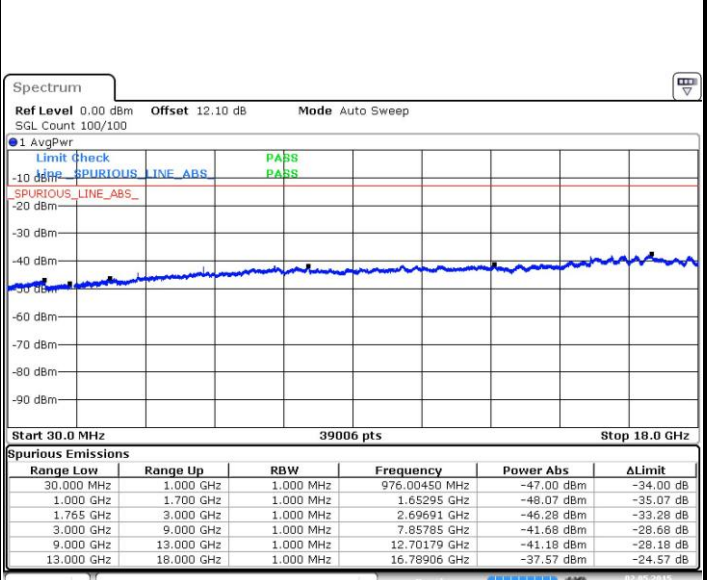
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 2.MAY.2015 11:14:46

Lowest Channel / 16QAM



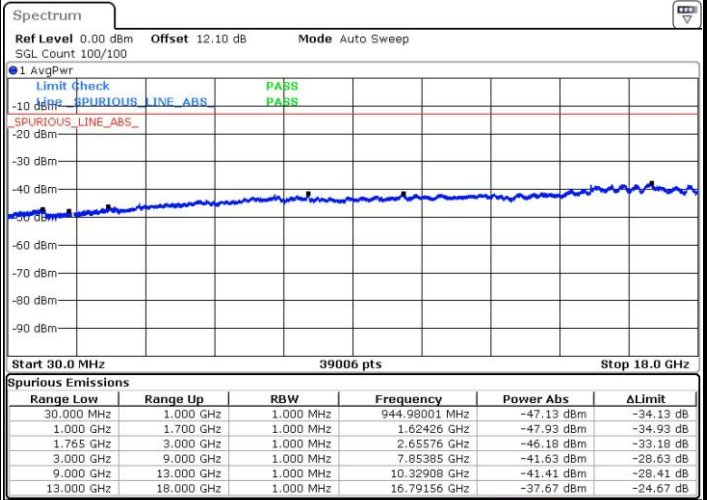
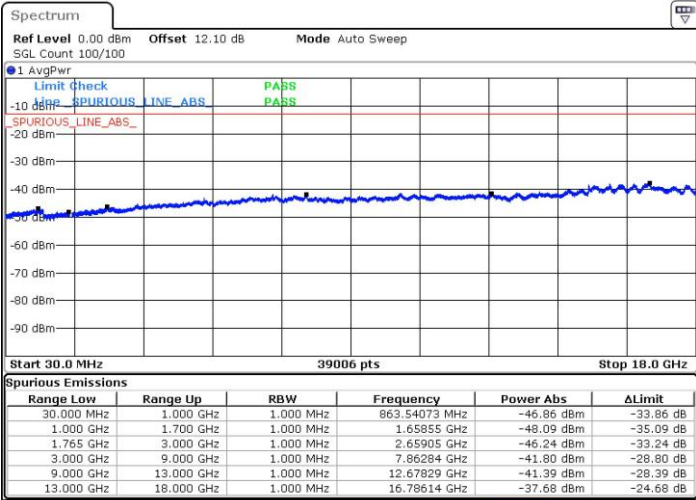
Date: 2.MAY.2015 11:15:56



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

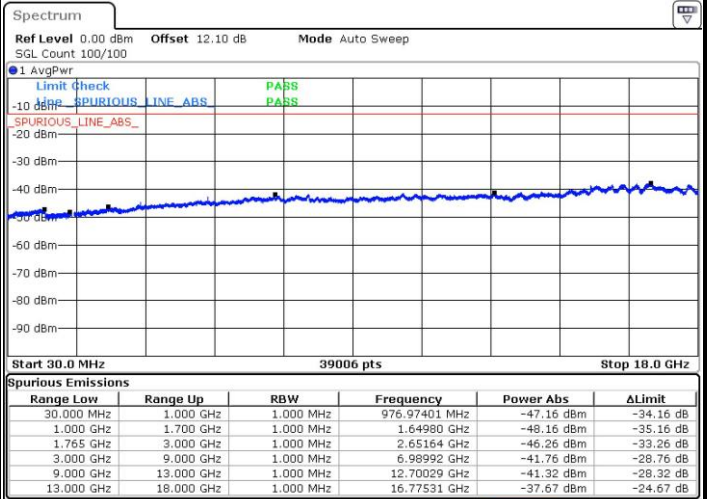
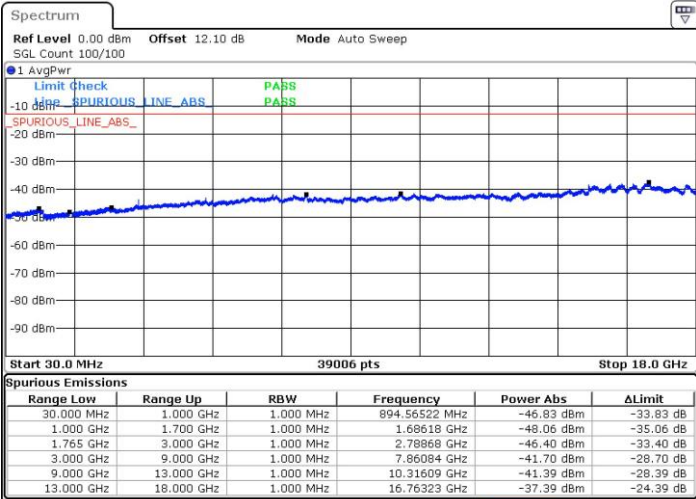


Date: 2.MAY.2015 11:17:06

Date: 2.MAY.2015 11:18:16

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.MAY.2015 11:19:27

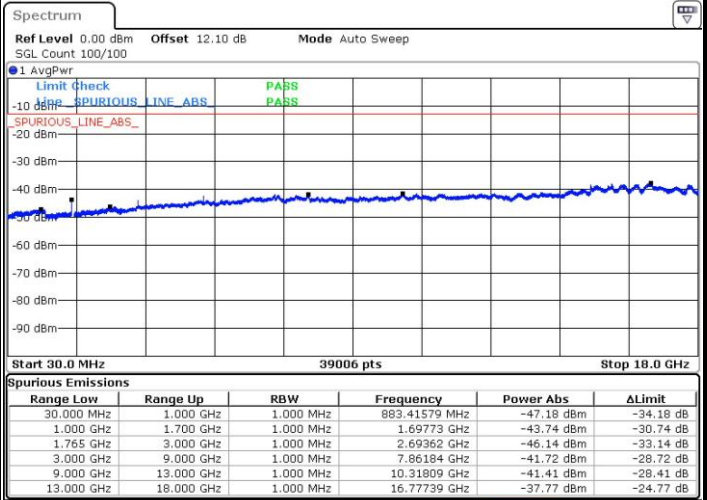
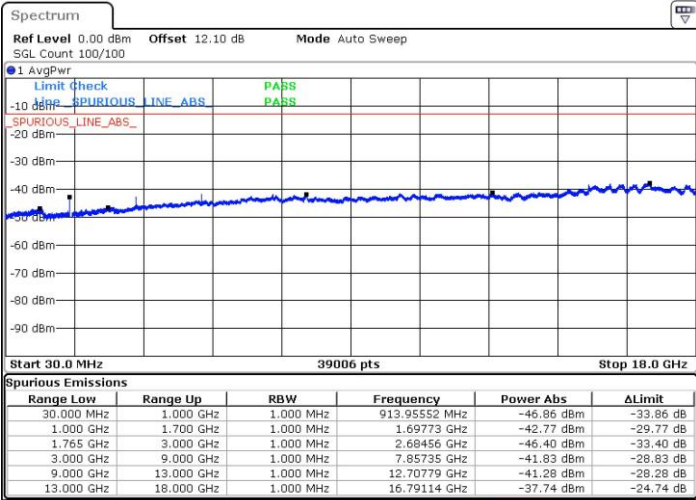
Date: 2.MAY.2015 11:20:37



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

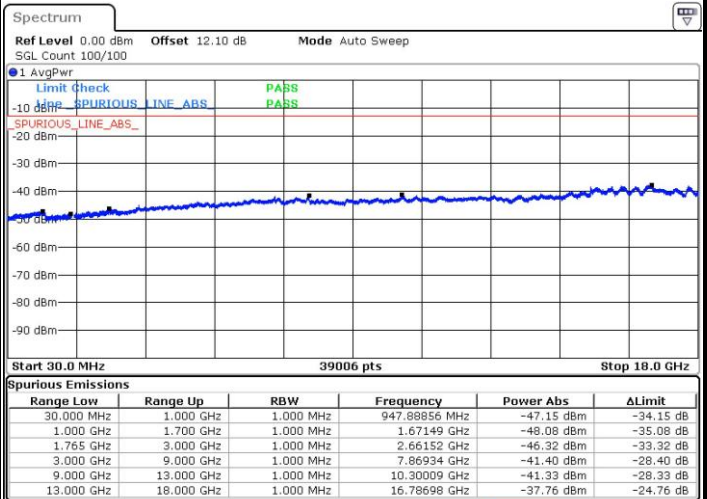
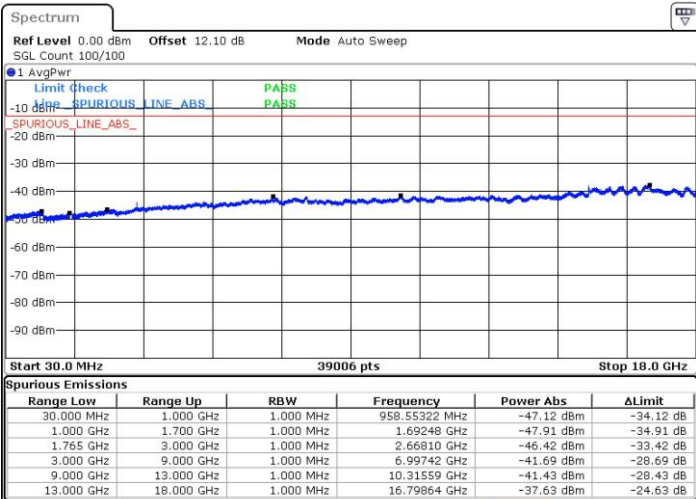


Date: 2.MAY.2015 11:21:47

Date: 2.MAY.2015 11:22:57

Middle Channel / QPSK

Middle Channel / 16QAM



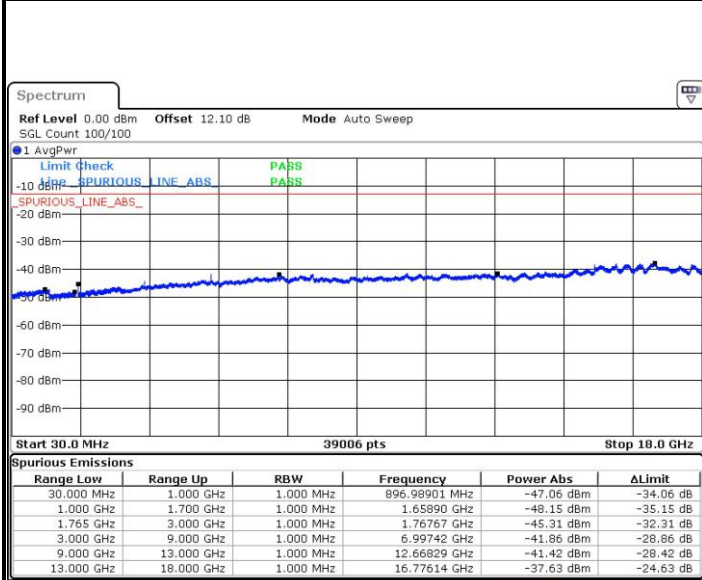
Date: 2.MAY.2015 11:24:07

Date: 2.MAY.2015 11:25:17



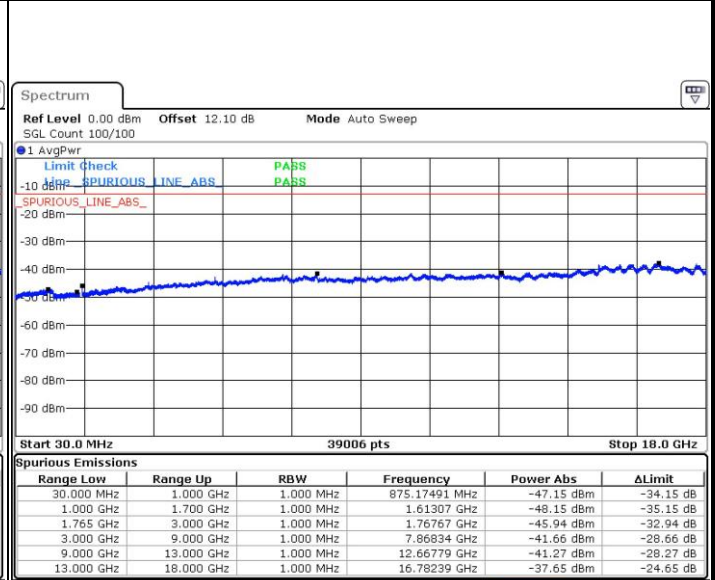
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 2.MAY.2015 11:26:28

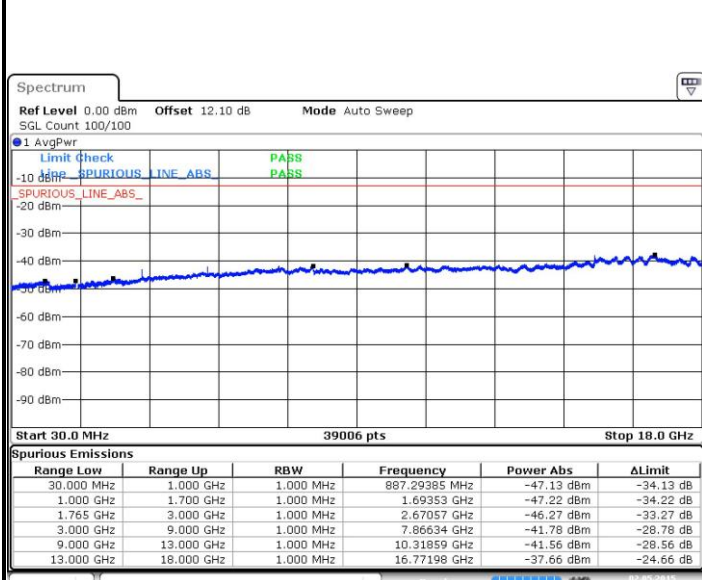
Highest Channel / 16QAM



Date: 2.MAY.2015 11:27:38

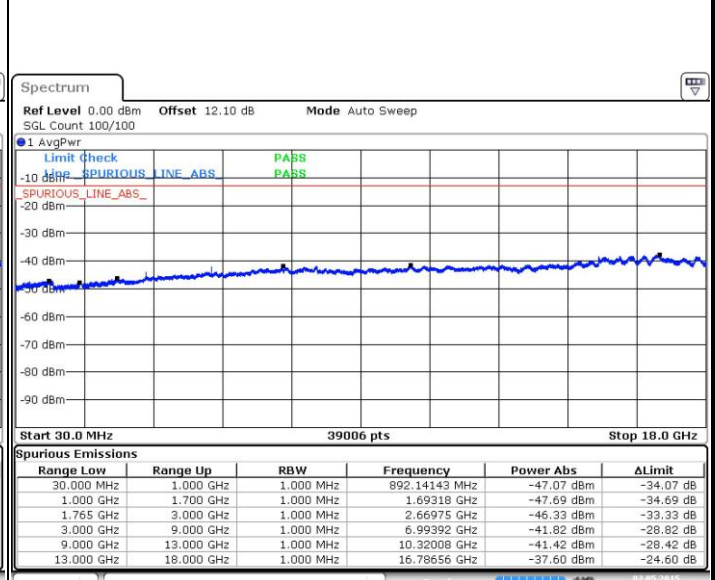
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 2.MAY.2015 11:28:48

Lowest Channel / 16QAM



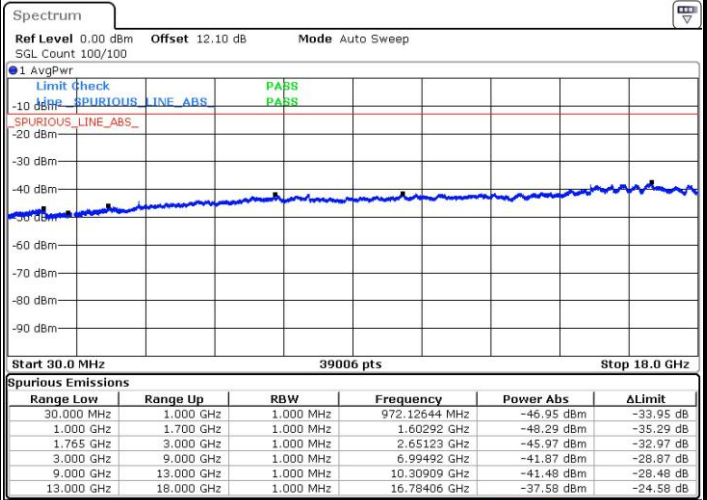
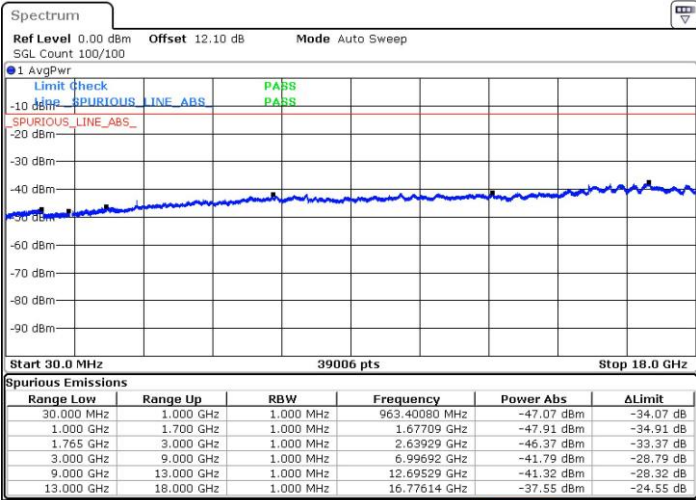
Date: 2.MAY.2015 11:29:58



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

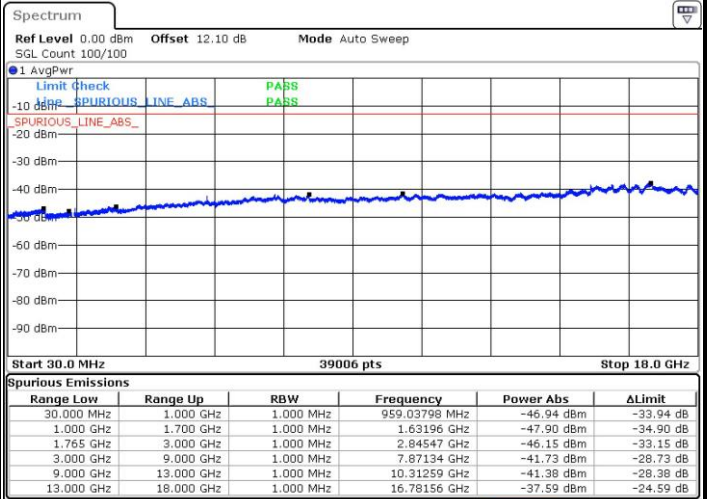
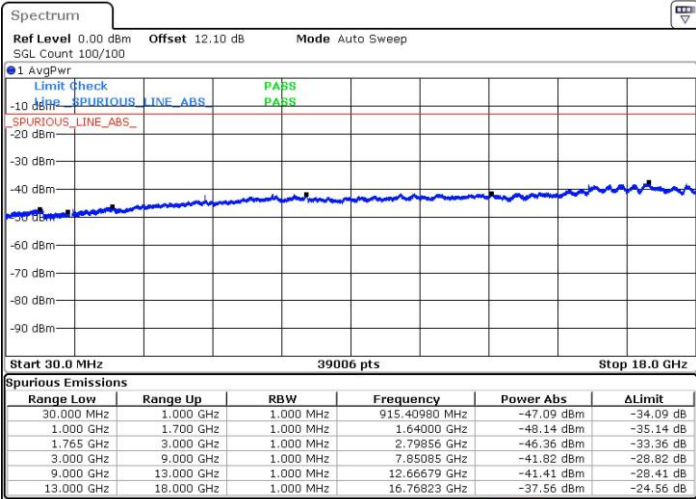


Date: 2.MAY.2015 11:31:08

Date: 2.MAY.2015 11:32:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.MAY.2015 11:33:29

Date: 2.MAY.2015 11:34:39



**Frequency Stability**

| Test Conditions  |                   | LTE Band 4 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0001                             | PASS    |
| 40               | Normal Voltage    | 0.0015                             |         |
| 30               | Normal Voltage    | 0.0020                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0006                             |         |
| 0                | Normal Voltage    | 0.0008                             |         |
| -10              | Normal Voltage    | 0.0003                             |         |
| -20              | Normal Voltage    | 0.0003                             |         |
| -30              | Normal Voltage    | 0.0005                             |         |
| 20               | Maximum Voltage   | 0.0011                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0014                             |         |

**Note:**

1. Normal Voltage = 3.95V. ; Battery End Point (BEP) = 3.55 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## LTE Band 7

### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.41               | 5.28    | 5.3   | 6.14    | <b>PASS</b> |
| Middle CH  | 4.58               | 5.01    | 5.62  | 6.14    |             |
| Highest CH | 4.46               | 5.04    | 5.16  | 6       |             |



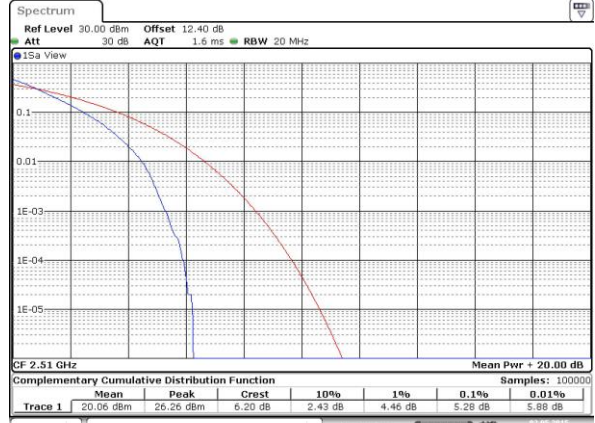
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 2 MAY 2015 13:20:15

Lowest Channel / Full RB



Date: 2 MAY 2015 13:20:29

Middle Channel / 1RB



Date: 2 MAY 2015 13:20:40

Middle Channel / Full RB



Date: 2 MAY 2015 13:20:51

Highest Channel / 1RB



Date: 2 MAY 2015 13:21:01

Highest Channel / Full RB

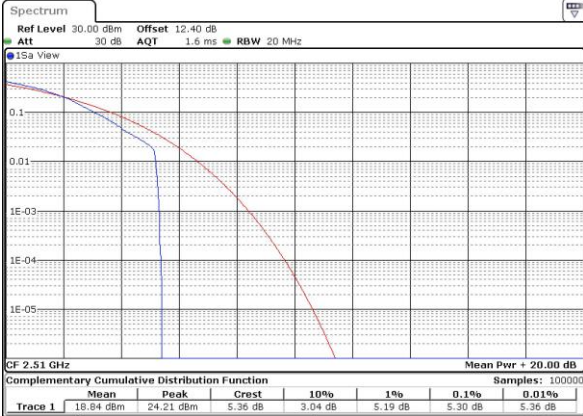


Date: 2 MAY 2015 13:21:12



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 2 MAY 2015 13:19:04

Lowest Channel / Full RB



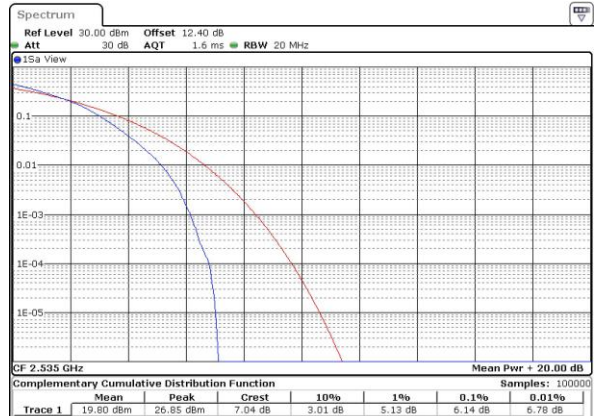
Date: 2 MAY 2015 13:19:15

Middle Channel / 1RB



Date: 2 MAY 2015 13:19:26

Middle Channel / Full RB



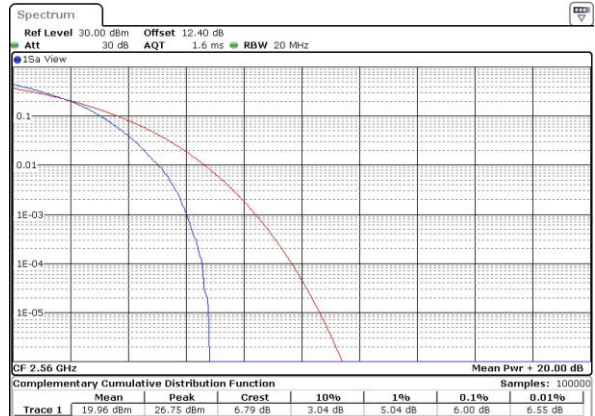
Date: 2 MAY 2015 13:19:37

Highest Channel / 1RB



Date: 2 MAY 2015 13:19:48

Highest Channel / Full RB



Date: 2 MAY 2015 13:19:59



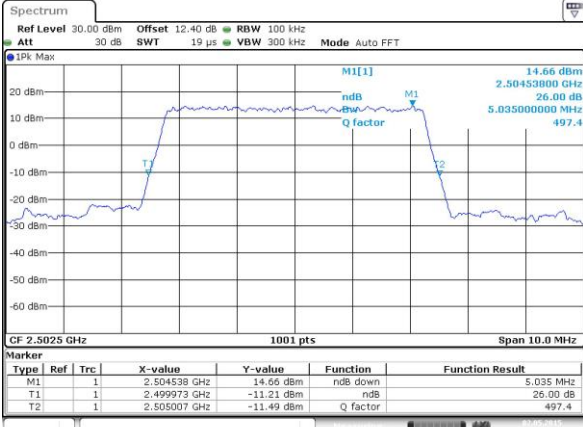
**26dB Bandwidth**

| Mode       | LTE Band 7 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| BW         |                           |       |      |       |      |       |       |       |       |       |       |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -    | -     | 5.04 | 5.04  | 10.09 | 9.97  | 14.57 | 14.90 | 20.42 | 20.42 |
| Middle CH  | -                         | -     | -    | -     | 5.06 | 5.06  | 10.03 | 9.99  | 14.84 | 14.69 | 20.26 | 20.22 |
| Highest CH | -                         | -     | -    | -     | 5.05 | 5.07  | 10.03 | 10.03 | 14.66 | 14.60 | 20.30 | 20.26 |



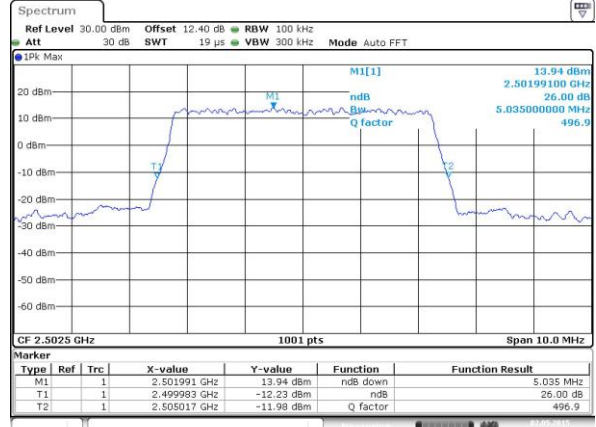
LTE Band 7

Lowest Channel / 5MHz / QPSK



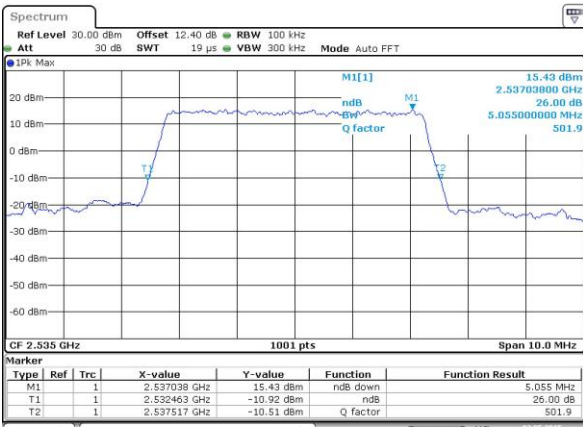
Date: 2 MAY 2015 11:56:46

Lowest Channel / 5MHz / 16QAM



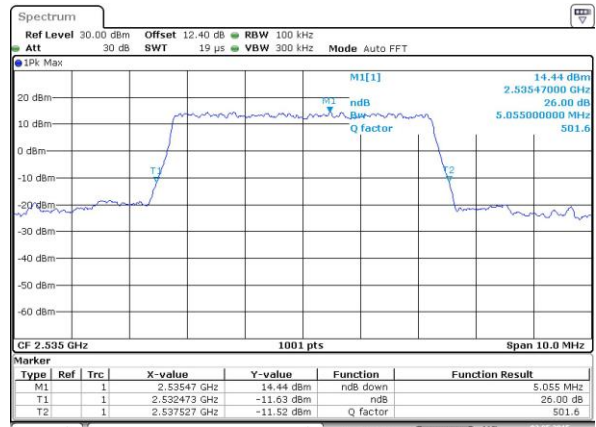
Date: 2 MAY 2015 11:56:58

Middle Channel / 5MHz / QPSK



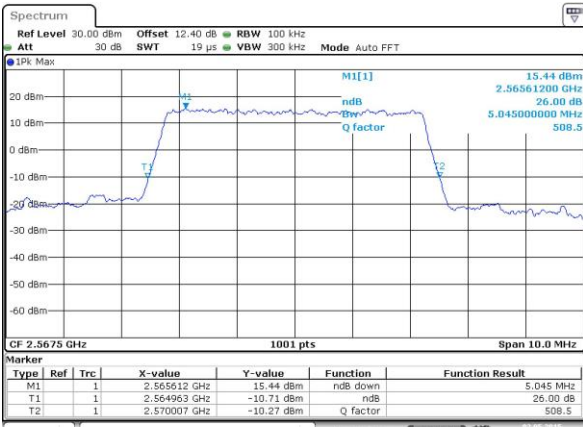
Date: 2 MAY 2015 12:04:30

Middle Channel / 5MHz / 16QAM



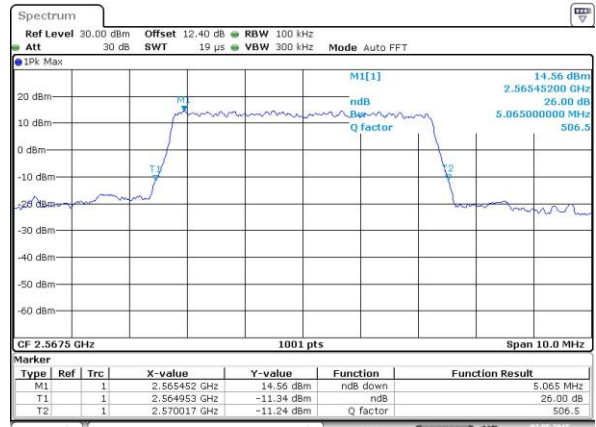
Date: 2 MAY 2015 12:04:43

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2015 12:07:36

Highest Channel / 5MHz / 16QAM

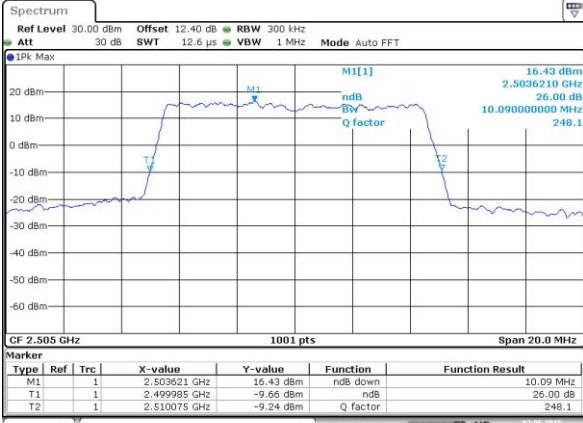


Date: 2 MAY 2015 12:07:49



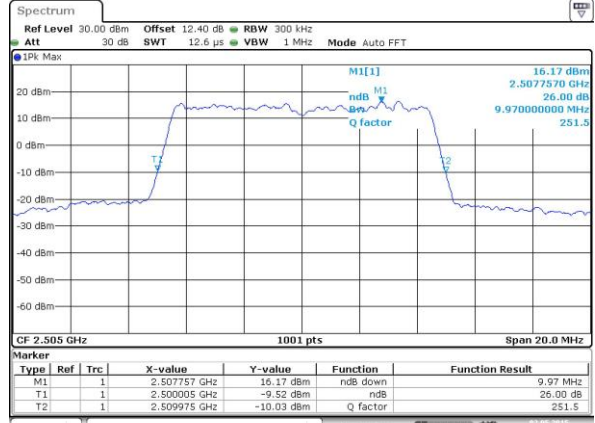
LTE Band 7

Lowest Channel / 10MHz / QPSK



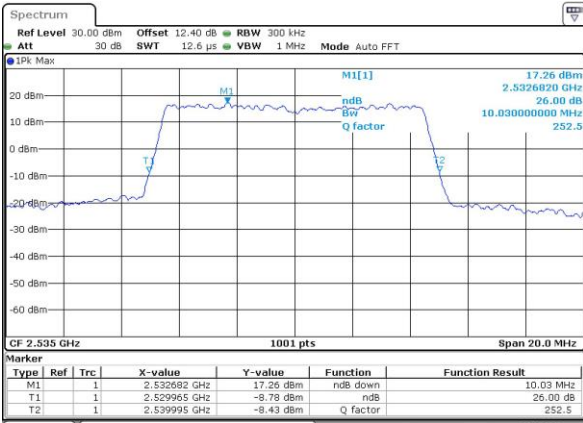
Date: 2 MAY 2015 12:15:21

Lowest Channel / 10MHz / 16QAM



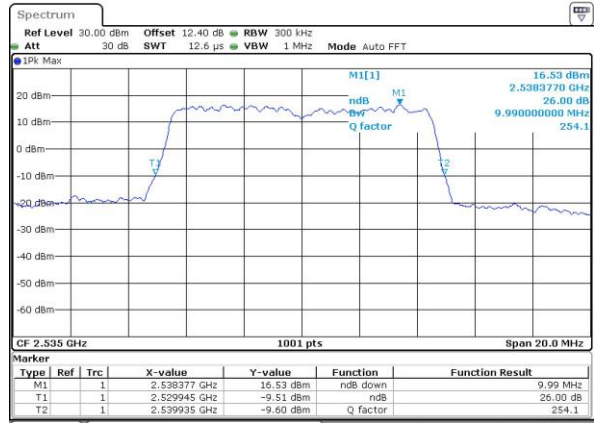
Date: 2 MAY 2015 12:15:34

Middle Channel / 10MHz / QPSK



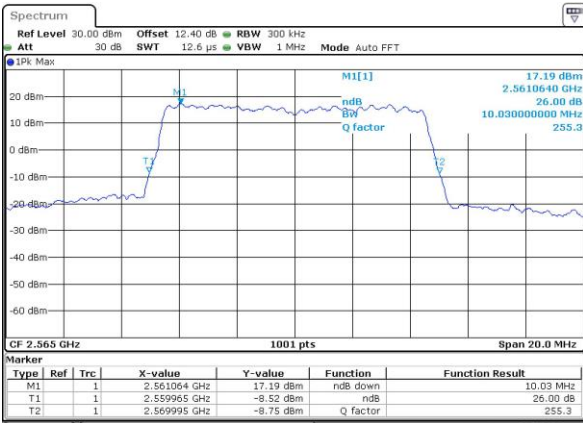
Date: 2 MAY 2015 12:29:18

Middle Channel / 10MHz / 16QAM



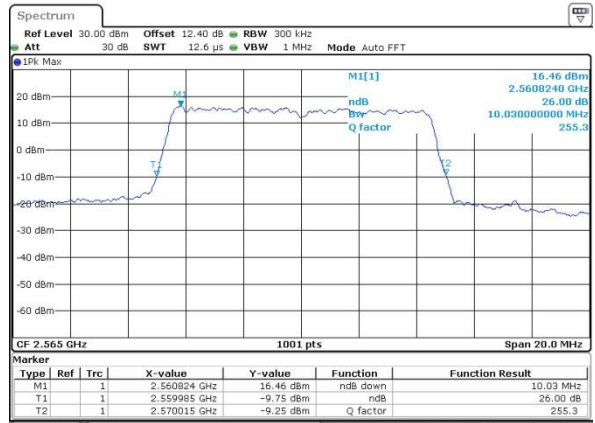
Date: 2 MAY 2015 12:29:30

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2015 12:32:24

Highest Channel / 10MHz / 16QAM

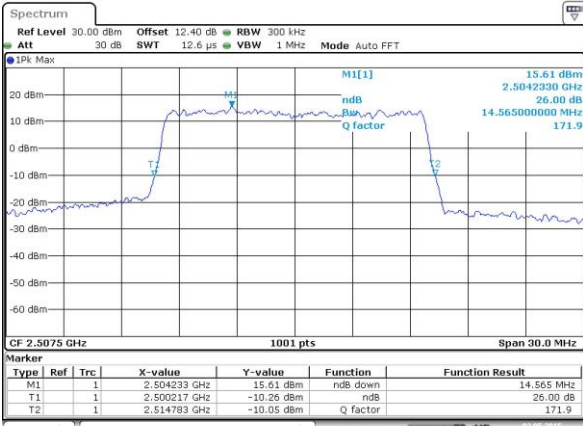


Date: 2 MAY 2015 12:32:37



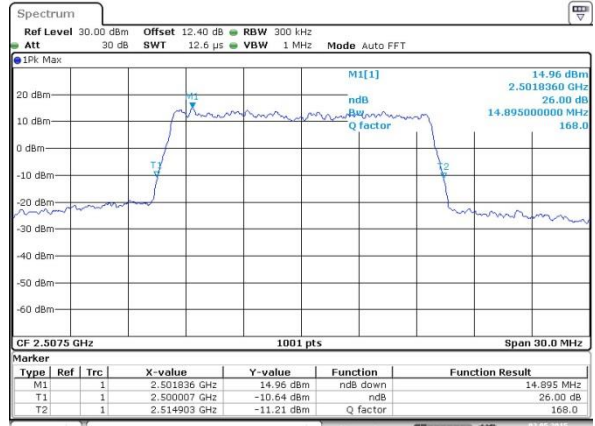
LTE Band 7

Lowest Channel / 15MHz / QPSK



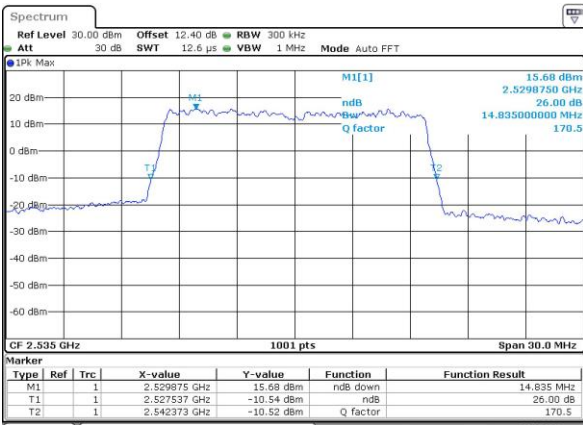
Date: 2 MAY 2015 12:40:10

Lowest Channel / 15MHz / 16QAM



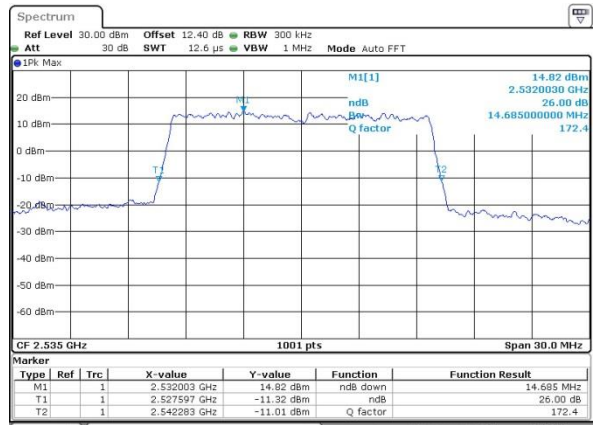
Date: 2 MAY 2015 12:40:22

Middle Channel / 15MHz / QPSK



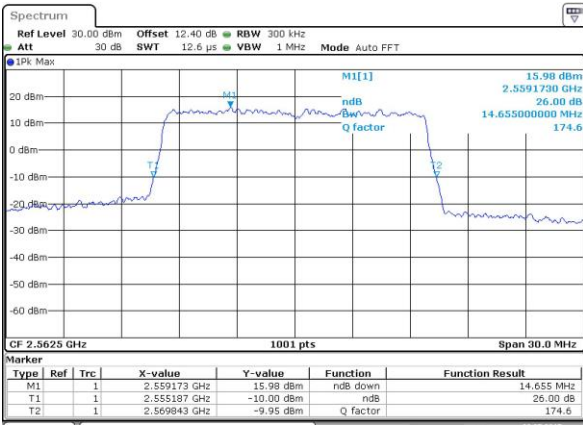
Date: 2 MAY 2015 12:47:55

Middle Channel / 15MHz / 16QAM



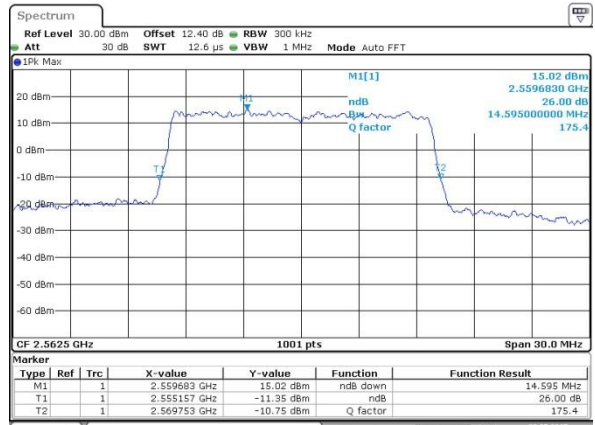
Date: 2 MAY 2015 12:48:08

Highest Channel / 15MHz / QPSK



Date: 2 MAY 2015 12:51:01

Highest Channel / 15MHz / 16QAM

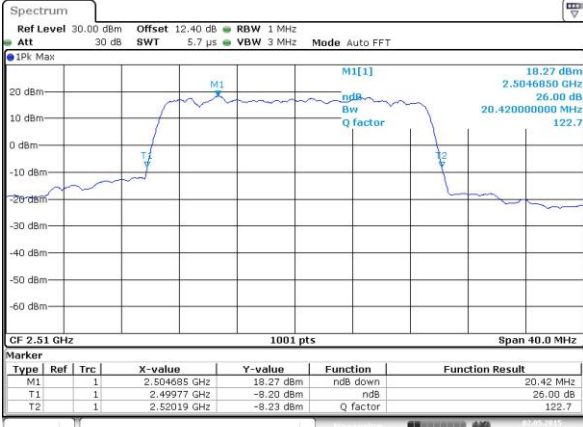


Date: 2 MAY 2015 12:51:14



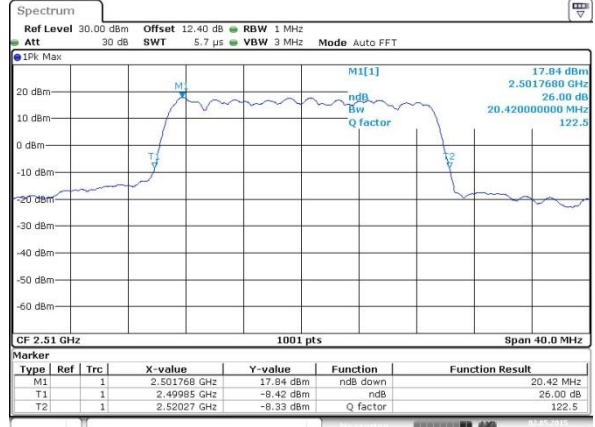
LTE Band 7

Lowest Channel / 20MHz / QPSK



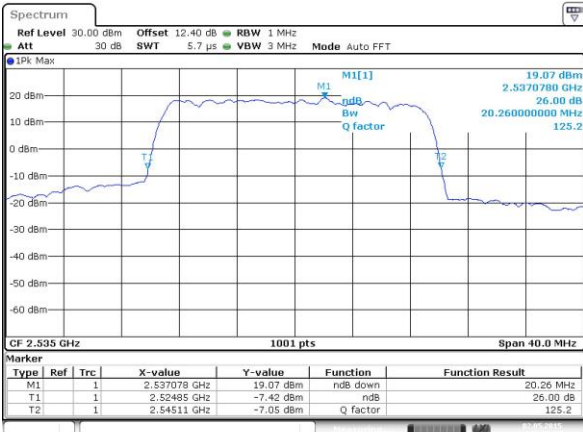
Date: 2 MAY 2015 12:58:47

Lowest Channel / 20MHz / 16QAM



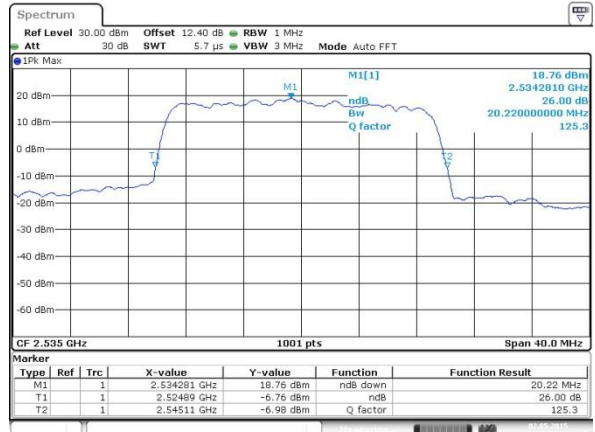
Date: 2 MAY 2015 12:58:59

Middle Channel / 20MHz / QPSK



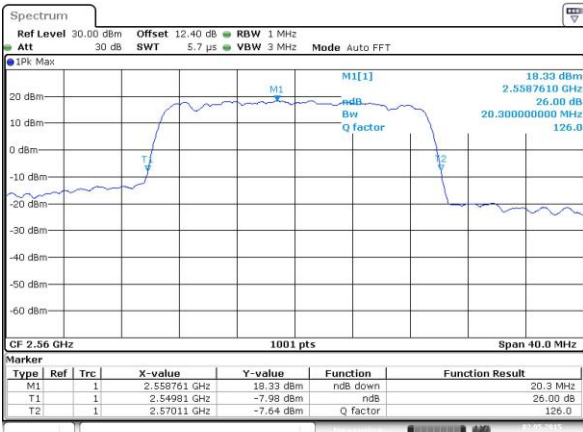
Date: 2 MAY 2015 13:06:32

Middle Channel / 20MHz / 16QAM



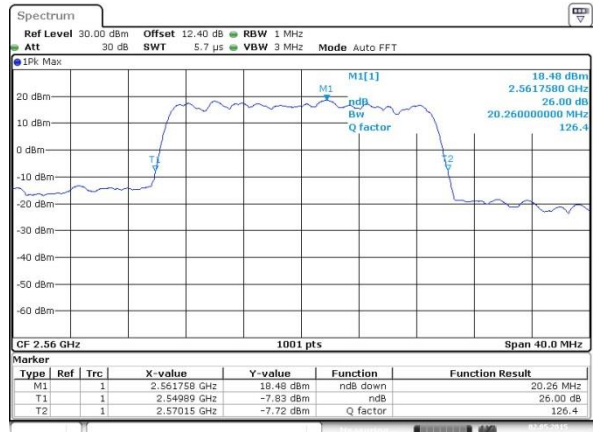
Date: 2 MAY 2015 13:06:44

Highest Channel / 20MHz / QPSK



Date: 2 MAY 2015 13:09:38

Highest Channel / 20MHz / 16QAM



Date: 2 MAY 2015 13:09:50