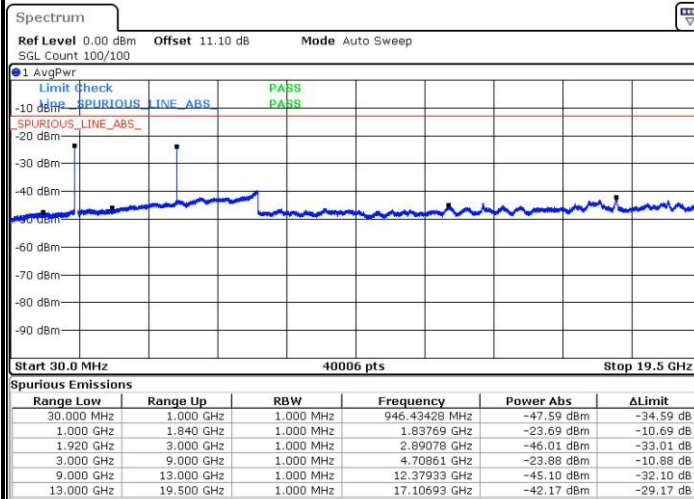




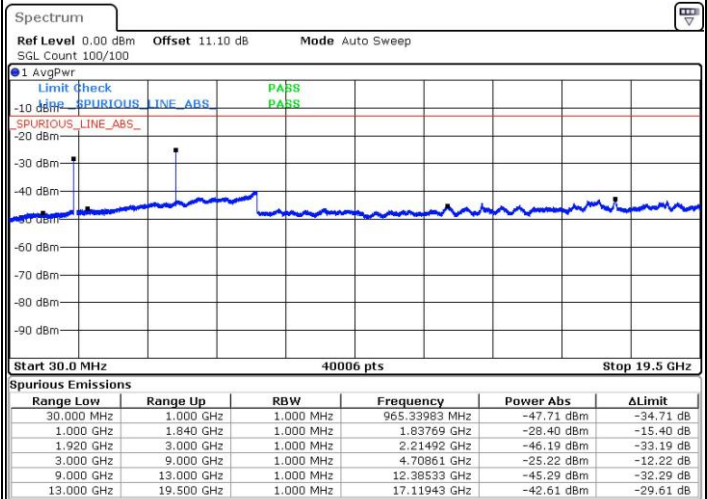
## LTE Band 2 / 15MHz

## Lowest Channel / QPSK



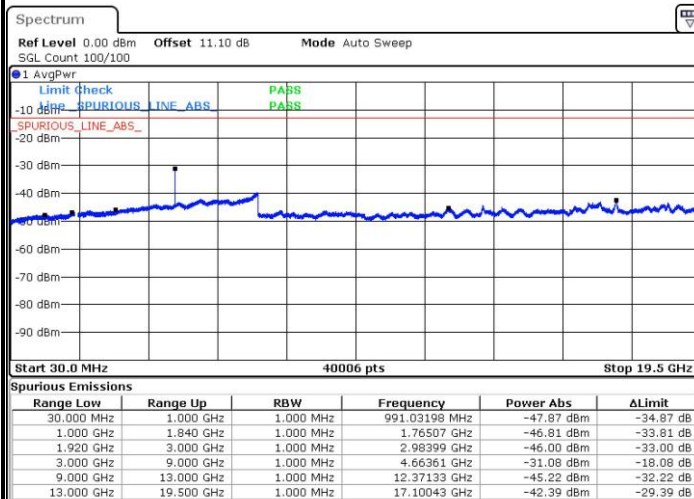
Date: 31.AUG.2016 21:27:12

## Lowest Channel / 16QAM



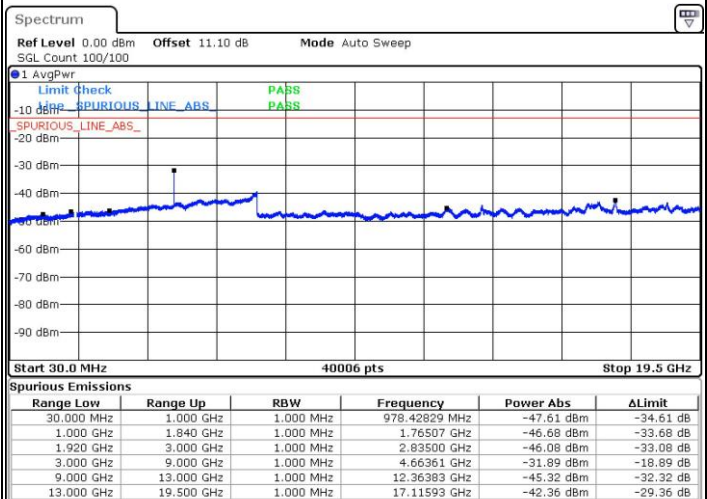
Date: 31.AUG.2016 21:28:10

## Middle Channel / QPSK



Date: 31.AUG.2016 21:29:56

## Middle Channel / 16QAM

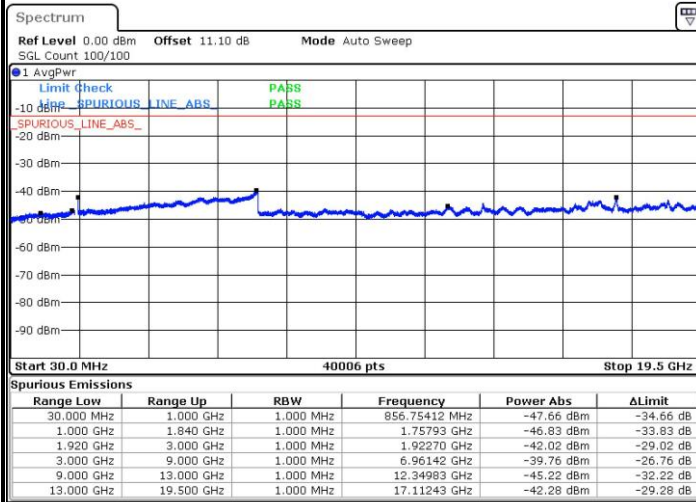


Date: 31.AUG.2016 21:30:54



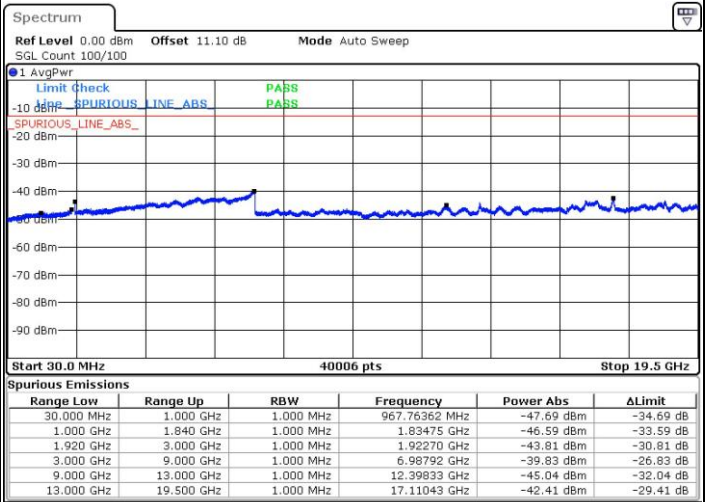
## LTE Band 2 / 15MHz

## Highest Channel / QPSK



Date: 31.AUG.2016 21:37:18

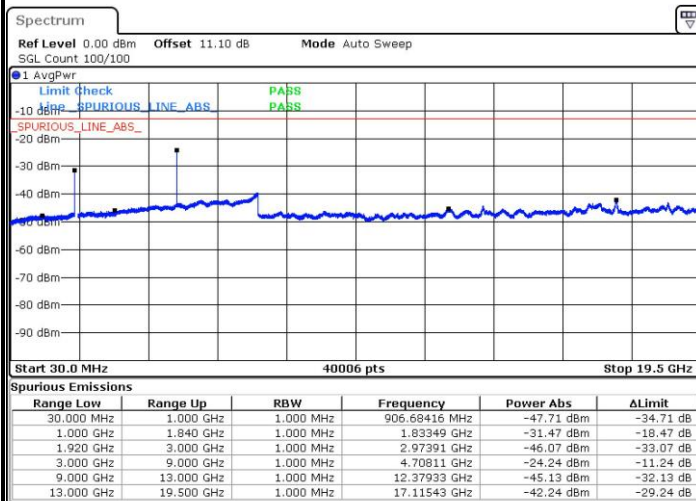
## Highest Channel / 16QAM



Date: 31.AUG.2016 21:38:16

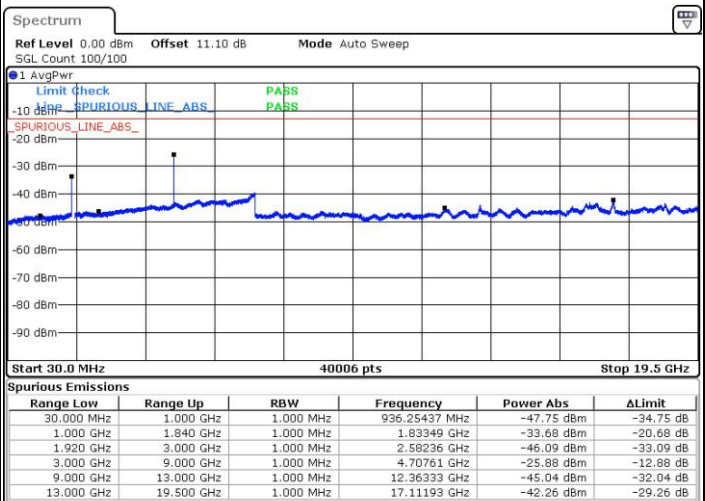
## LTE Band 2 / 20MHz

## Lowest Channel / QPSK



Date: 31.AUG.2016 21:44:40

## Lowest Channel / 16QAM

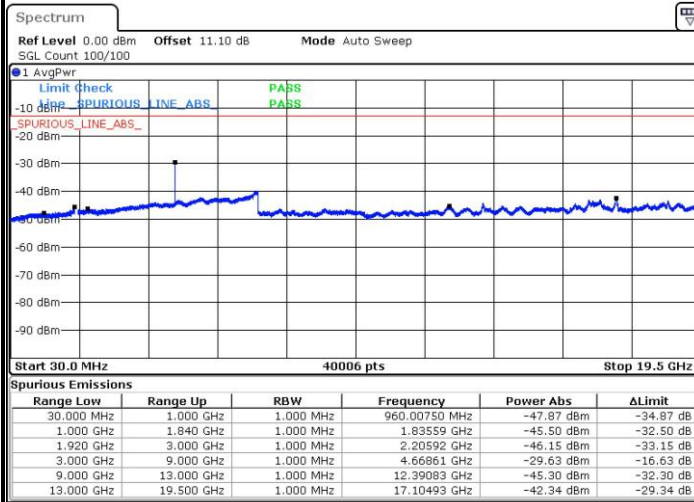


Date: 31.AUG.2016 21:45:38



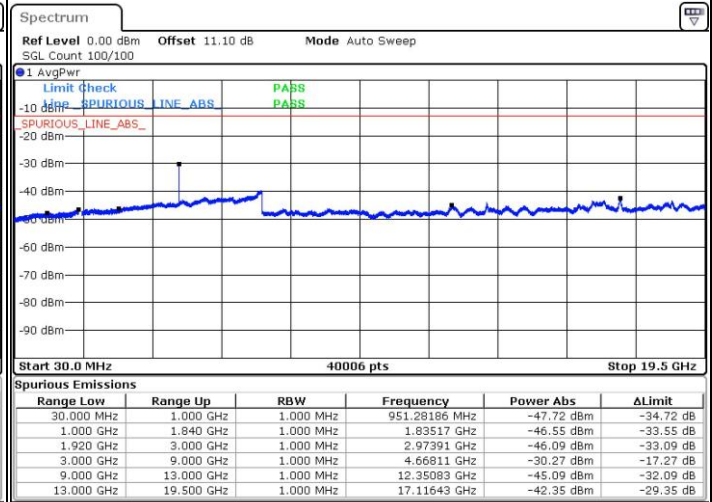
## LTE Band 2 / 20MHz

## Middle Channel / QPSK



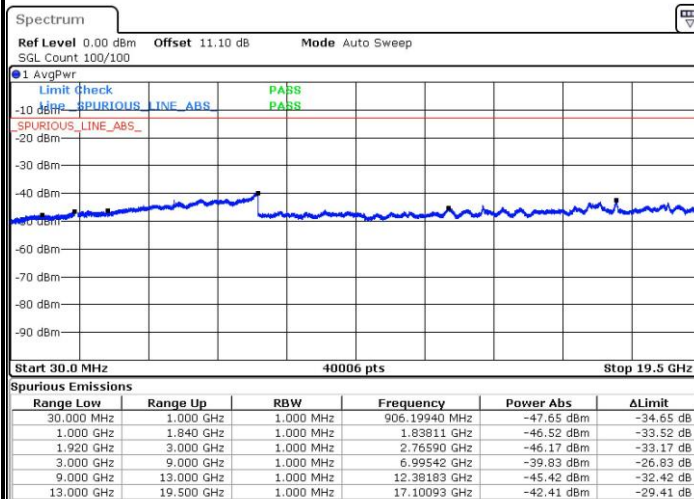
Date: 31.AUG.2016 21:47:24

## Middle Channel / 16QAM



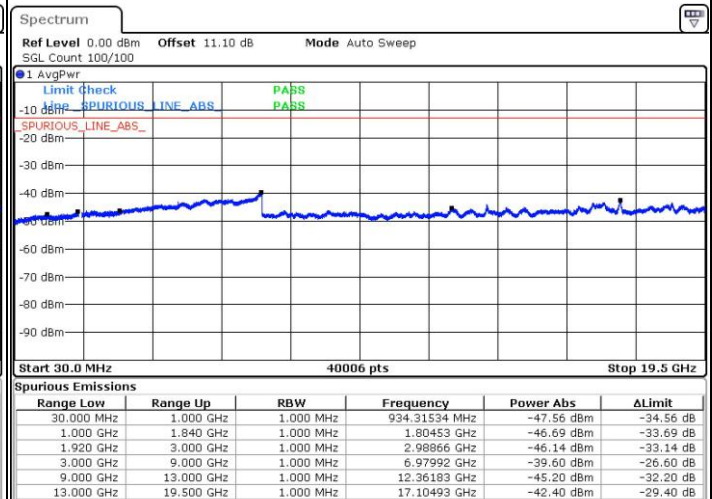
Date: 31.AUG.2016 21:48:22

## Highest Channel / QPSK



Date: 31.AUG.2016 21:54:46

## Highest Channel / 16QAM



Date: 31.AUG.2016 21:55:44

## 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    | 0.0065                             | PASS    |
| 40               | Normal Voltage    | 0.0006                             |         |
| 30               | Normal Voltage    | 0.0061                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0067                             |         |
| 0                | Normal Voltage    | 0.0009                             |         |
| -10              | Normal Voltage    | 0.0005                             |         |
| -20              | Normal Voltage    | 0.0066                             |         |
| -30              | Normal Voltage    | 0.0059                             |         |
| 20               | Maximum Voltage   | 0.0000                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0001                             |         |

**Note:**

1. Normal Voltage =3.9 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.

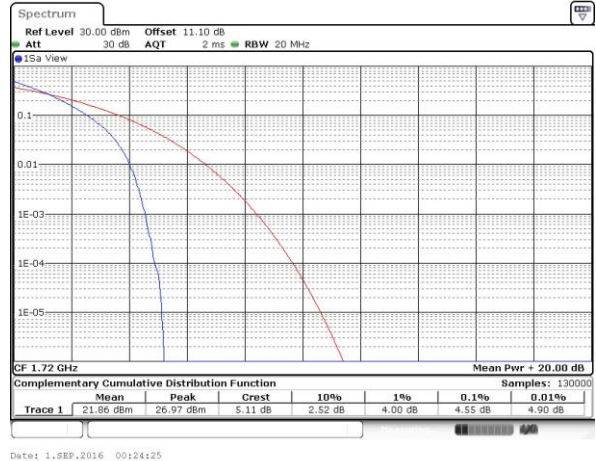
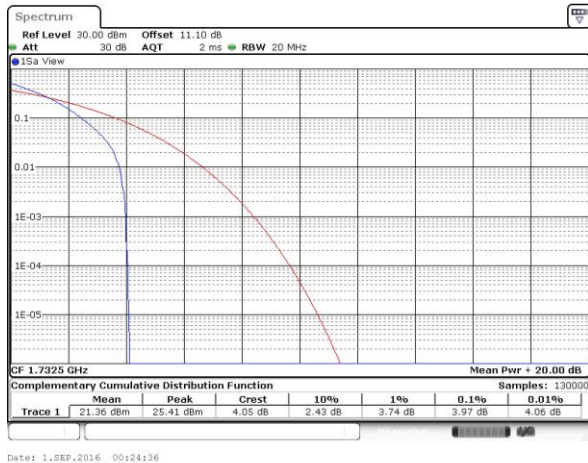
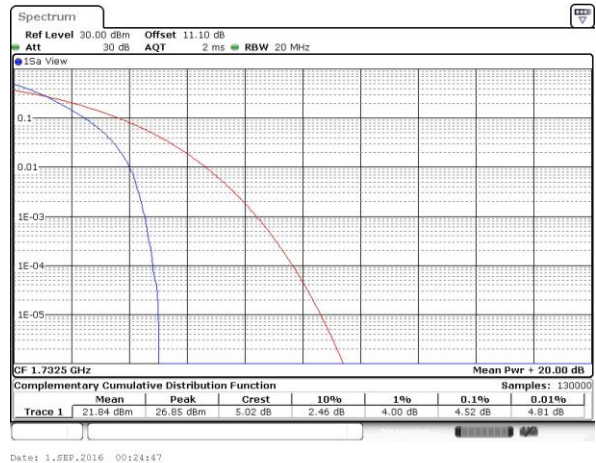
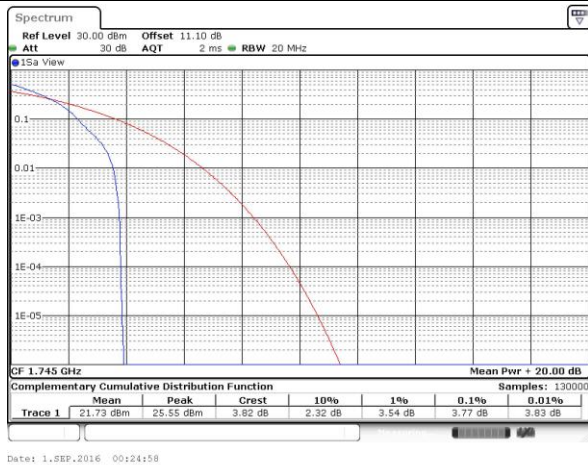
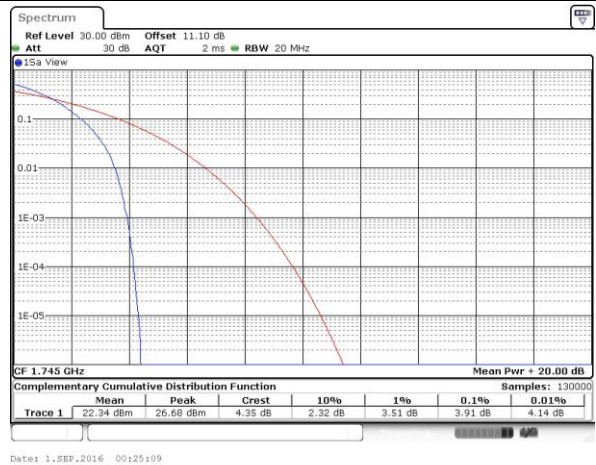


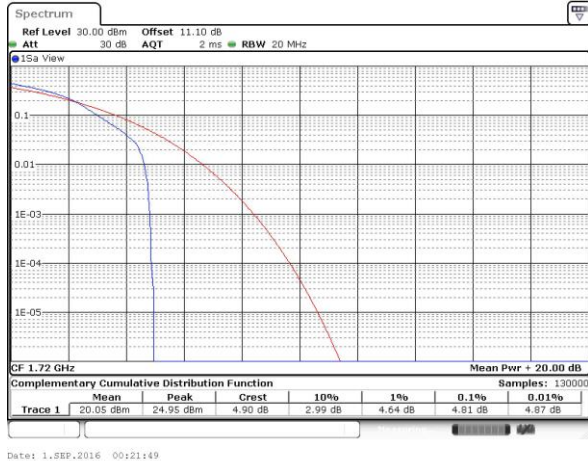
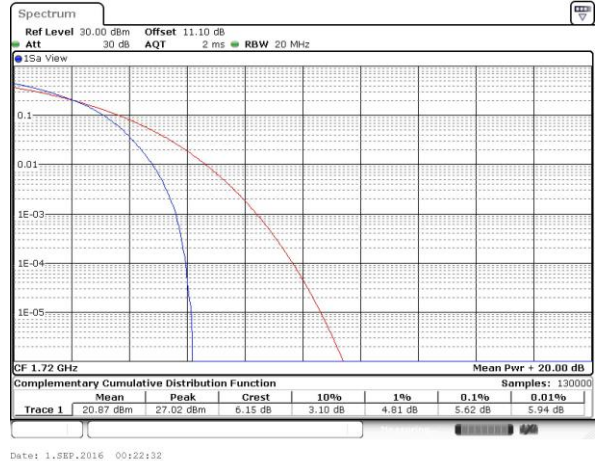
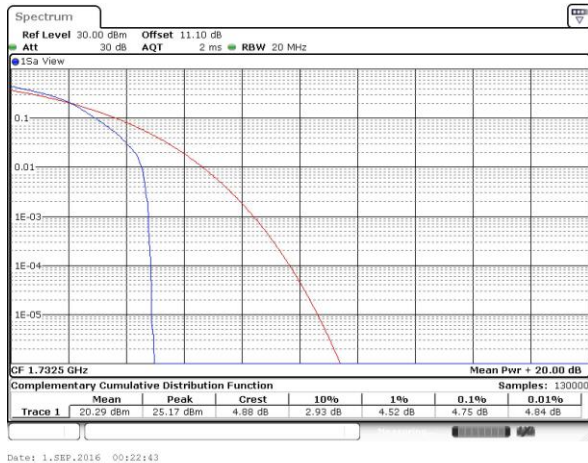
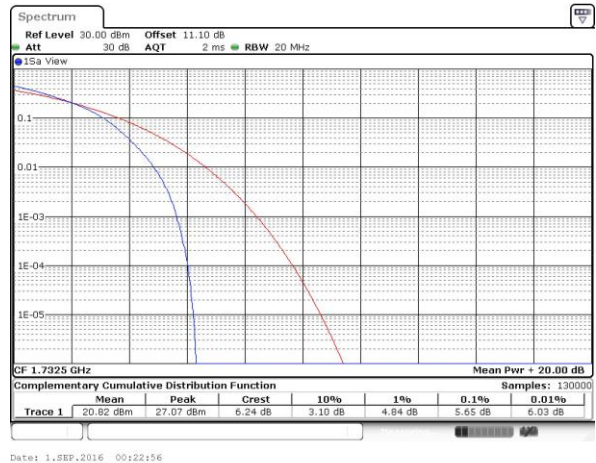
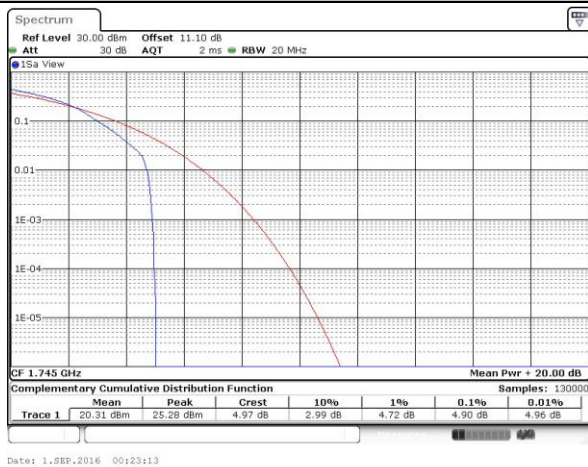
## LTE Band 4

### Peak-to-Average Ratio

| Mode       | LTE Band 4 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.91               | 4.55    | 4.81  | 5.62    | PASS        |
| Middle CH  | 3.97               | 4.52    | 4.75  | 5.65    |             |
| Highest CH | 3.77               | 3.91    | 4.9   | 4.93    |             |

**LTE Band 4 / 20MHz / QPSK**
**Lowest Channel / 1RB**

**Lowest Channel / Full RB**

**Middle Channel / 1RB**

**Middle Channel / Full RB**

**Highest Channel / 1RB**

**Highest Channel / Full RB**


**LTE Band 4 / 20MHz / 16QAM**
**Lowest Channel / 1RB**

**Lowest Channel / Full RB**

**Middle Channel / 1RB**

**Middle Channel / Full RB**

**Highest Channel / 1RB**

**Highest Channel / Full RB**



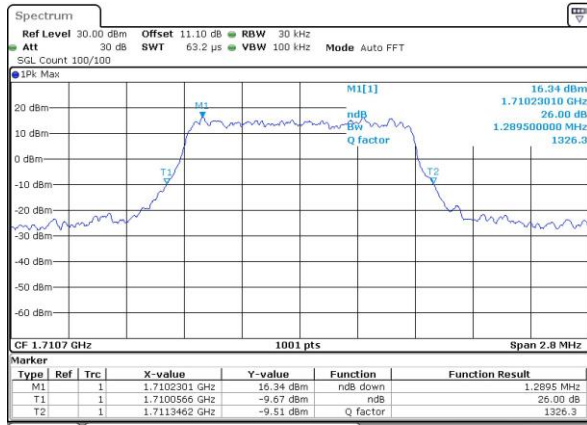

**26dB Bandwidth**

| Mode       | LTE Band 4 : 26dB BW(MHz) |       |       |       |       |       |       |       |        |        |       |       |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz  |        | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK   | 16QAM  | QPSK  | 16QAM |
| Lowest CH  | 1.29                      | 1.276 | 3.015 | 3.063 | 4.915 | 4.845 | 9.71  | 9.69  | 14.565 | 14.416 | 20.06 | 20.06 |
| Middle CH  | 1.267                     | 1.284 | 3.021 | 3.039 | 4.915 | 4.935 | 9.69  | 9.65  | 14.386 | 14.386 | 20.18 | 20.3  |
| Highest CH | 1.29                      | 1.29  | 2.997 | 3.027 | 4.935 | 4.885 | 9.87  | 9.91  | 14.446 | 14.416 | 20.18 | 20.14 |



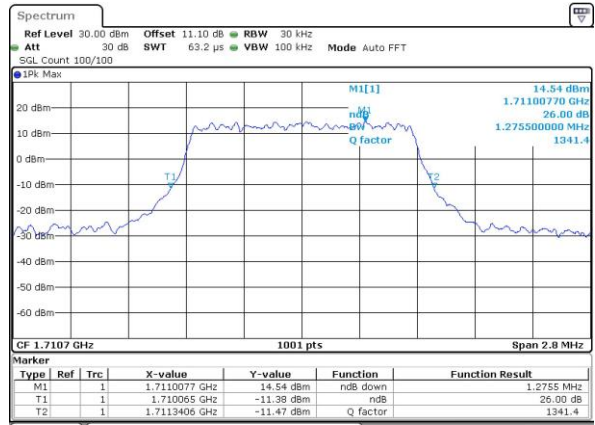
## LTE Band 4

## Lowest Channel / 1.4MHz / QPSK



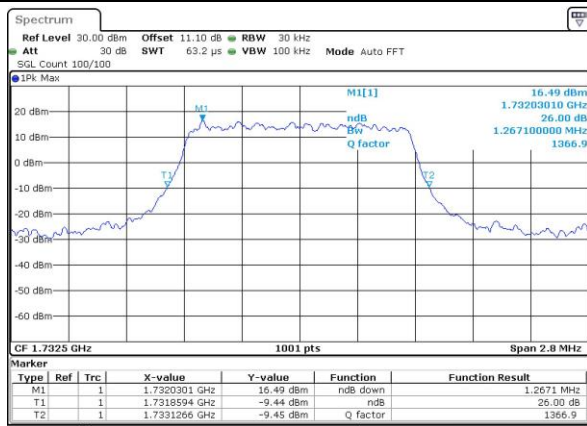
Date: 1.SEP.2016 00:04:47

## Lowest Channel / 1.4MHz / 16QAM



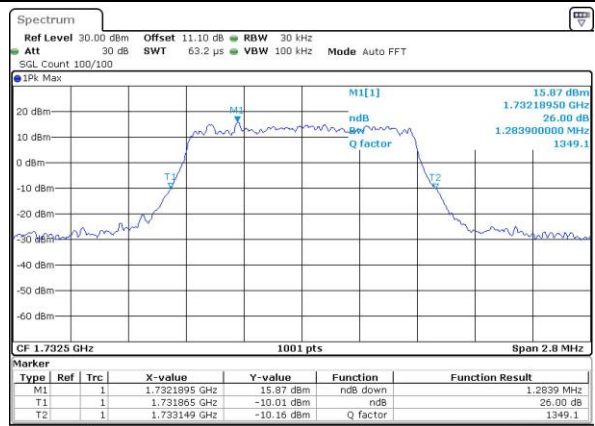
Date: 1.SEP.2016 00:04:58

## Middle Channel / 1.4MHz / QPSK



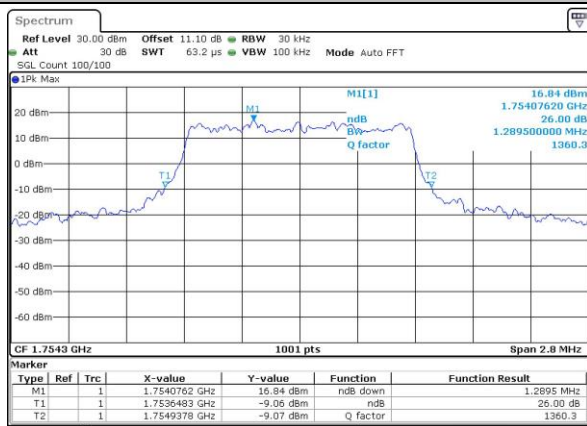
Date: 1.SEP.2016 00:12:08

## Middle Channel / 1.4MHz / 16QAM



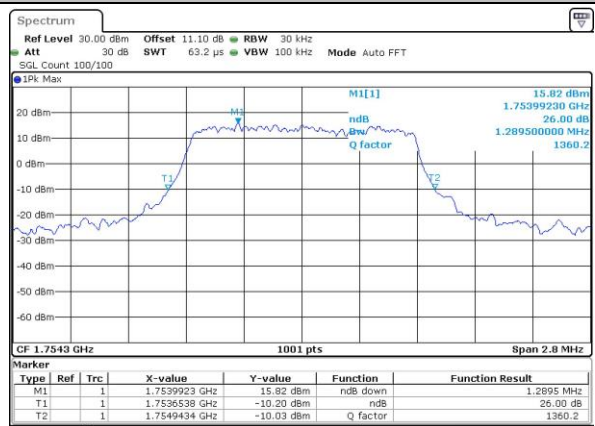
Date: 1.SEP.2016 00:12:19

## Highest Channel / 1.4MHz / QPSK



Date: 1.SEP.2016 00:14:50

## Highest Channel / 1.4MHz / 16QAM

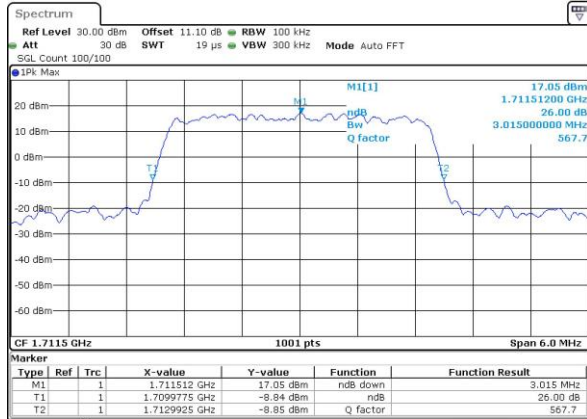


Date: 1.SEP.2016 00:15:02



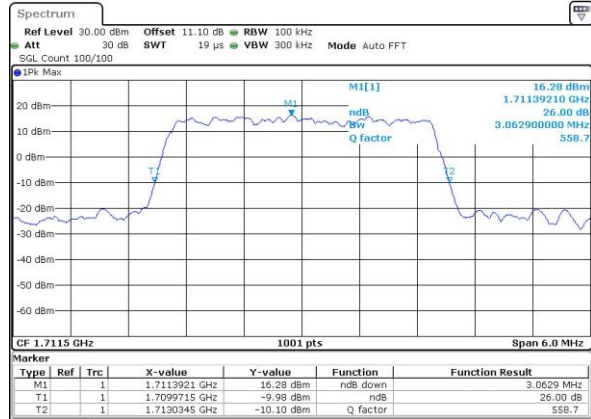
## LTE Band 4

## Lowest Channel / 3MHz / QPSK



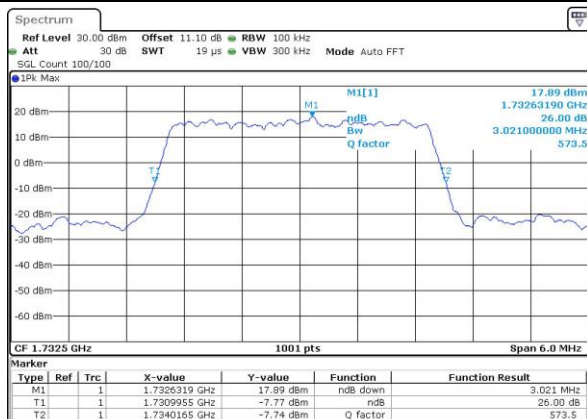
Date: 31.AUG.2016 22:31:28

## Lowest Channel / 3MHz / 16QAM



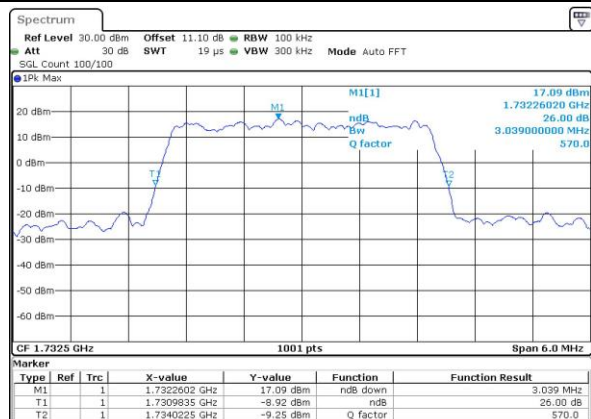
Date: 31.AUG.2016 22:31:40

## Middle Channel / 3MHz / QPSK



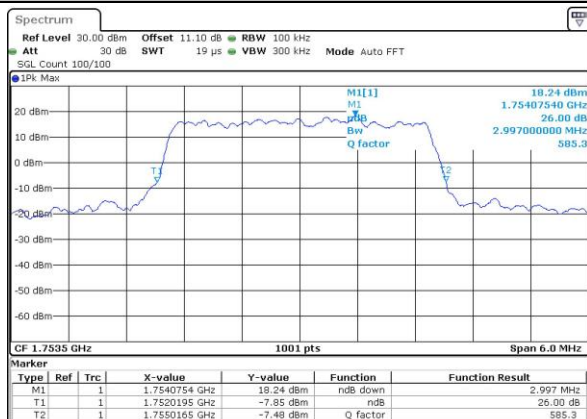
Date: 31.AUG.2016 22:38:50

## Middle Channel / 3MHz / 16QAM



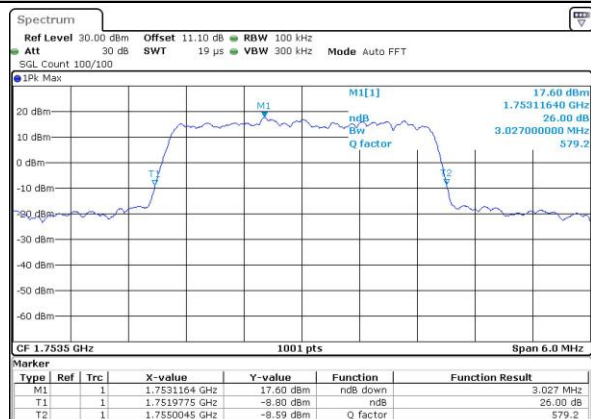
Date: 31.AUG.2016 22:39:01

## Highest Channel / 3MHz / QPSK



Date: 31.AUG.2016 22:41:33

## Highest Channel / 3MHz / 16QAM

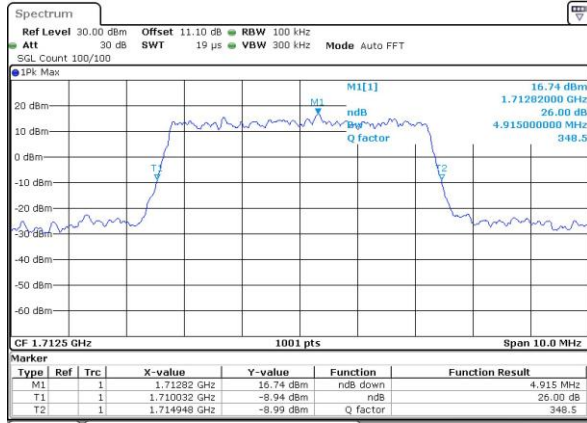


Date: 31.AUG.2016 22:41:45



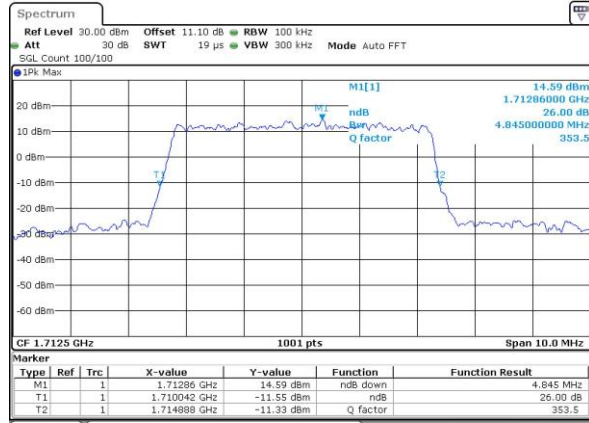
## LTE Band 4

## Lowest Channel / 5MHz / QPSK



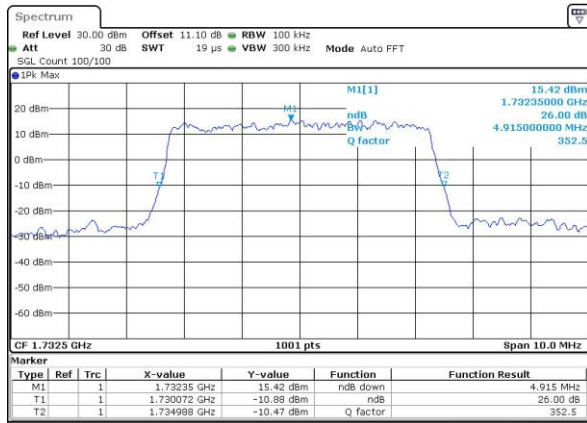
Date: 31.AUG.2016 22:48:54

## Lowest Channel / 5MHz / 16QAM



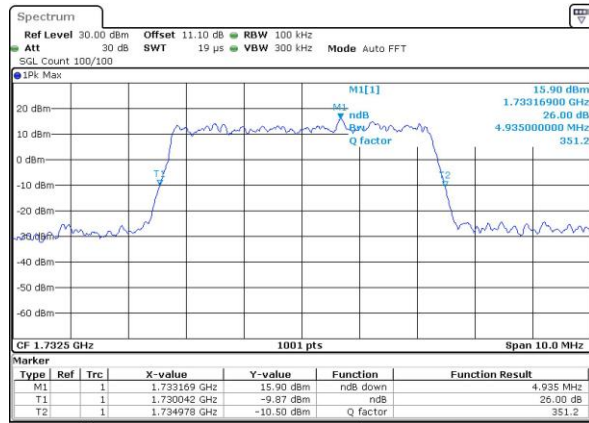
Date: 31.AUG.2016 22:49:06

## Middle Channel / 5MHz / QPSK



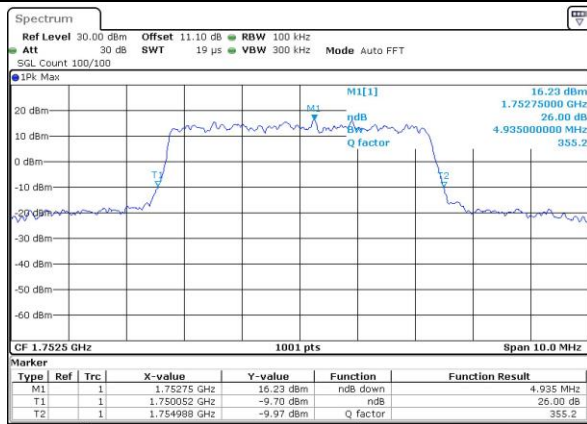
Date: 31.AUG.2016 22:56:15

## Middle Channel / 5MHz / 16QAM



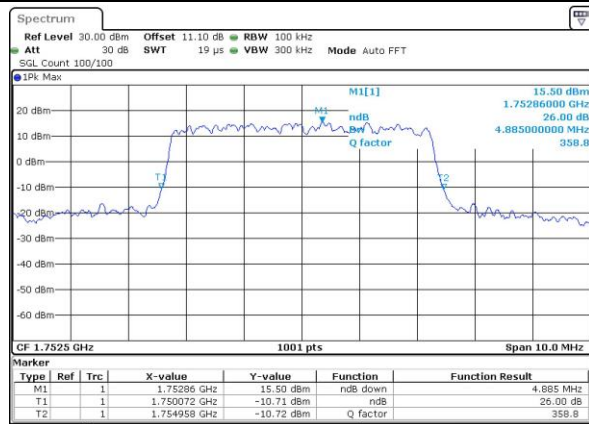
Date: 31.AUG.2016 22:56:27

## Highest Channel / 5MHz / QPSK



Date: 31.AUG.2016 22:58:59

## Highest Channel / 5MHz / 16QAM

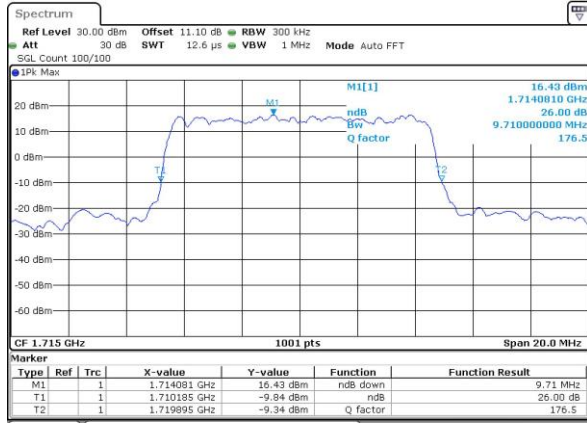


Date: 31.AUG.2016 22:59:10



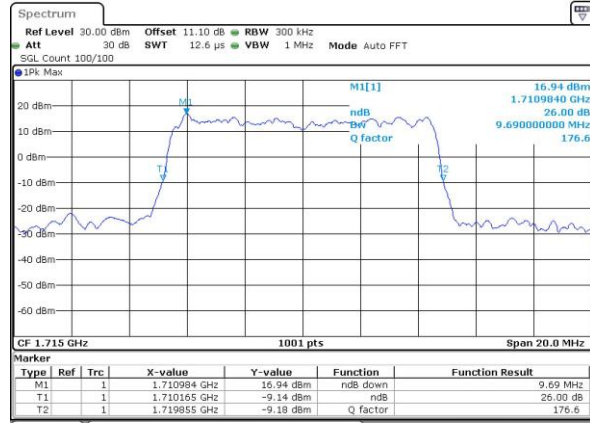
## LTE Band 4

## Lowest Channel / 10MHz / QPSK



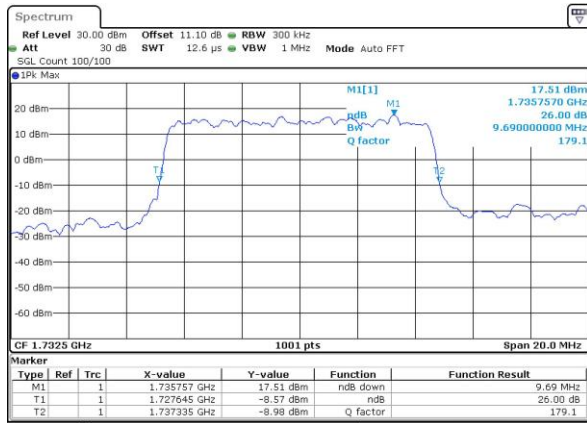
Date: 31.AUG.2016 23:06:20

## Lowest Channel / 10MHz / 16QAM



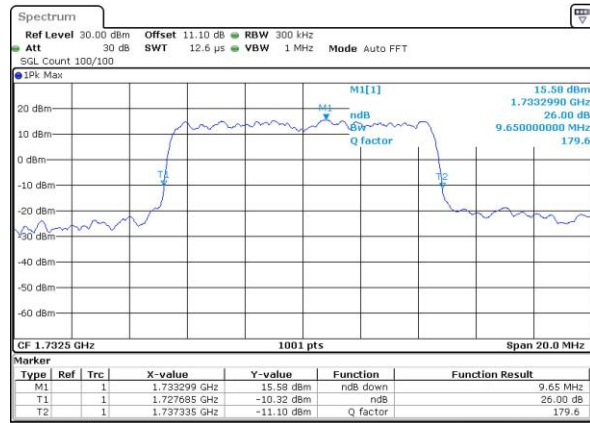
Date: 31.AUG.2016 23:06:32

## Middle Channel / 10MHz / QPSK



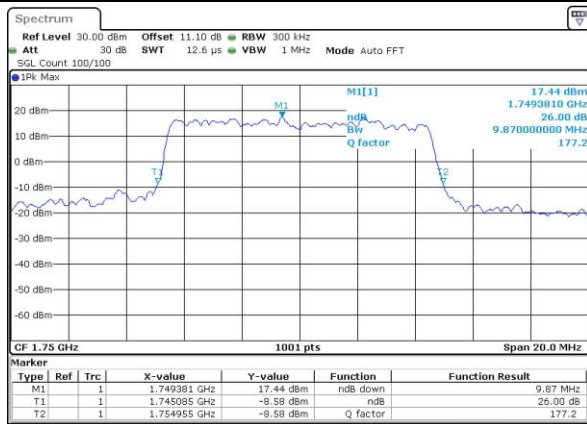
Date: 31.AUG.2016 23:13:41

## Middle Channel / 10MHz / 16QAM



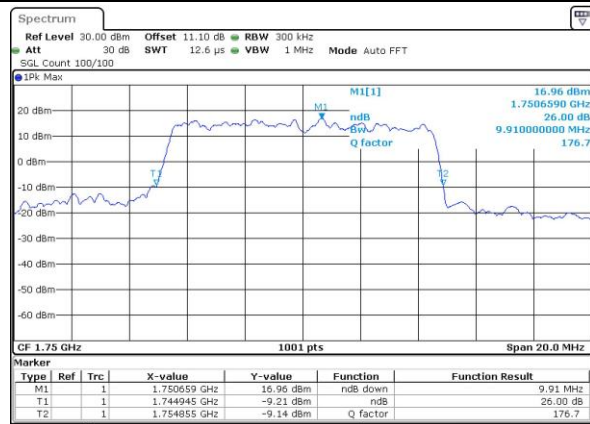
Date: 31.AUG.2016 23:13:53

## Highest Channel / 10MHz / QPSK



Date: 31.AUG.2016 23:16:25

## Highest Channel / 10MHz / 16QAM

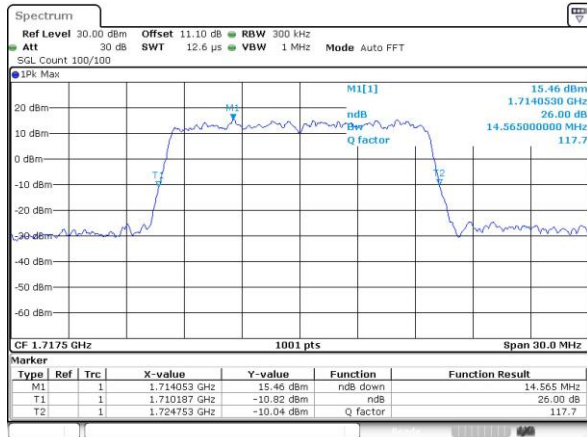


Date: 31.AUG.2016 23:16:37

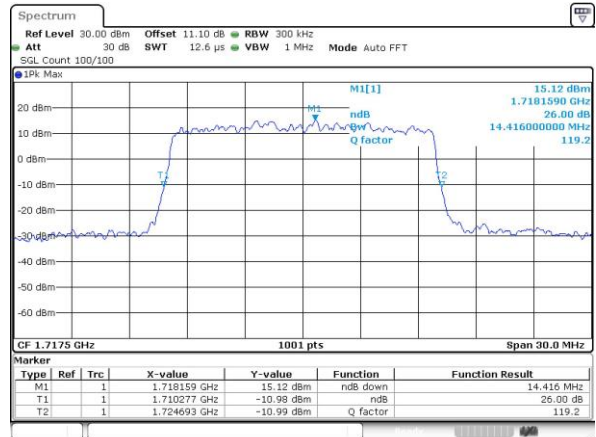


## LTE Band 4

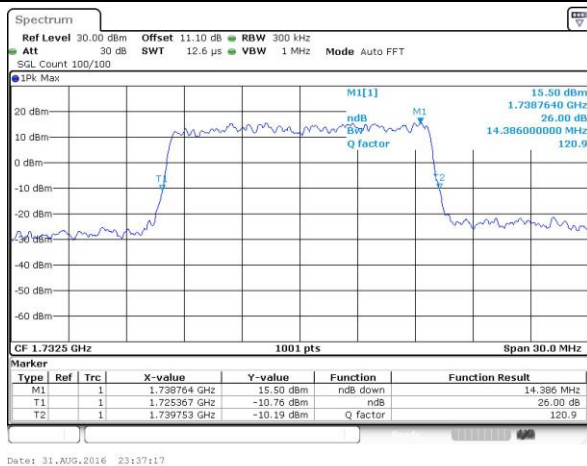
## Lowest Channel / 15MHz / QPSK



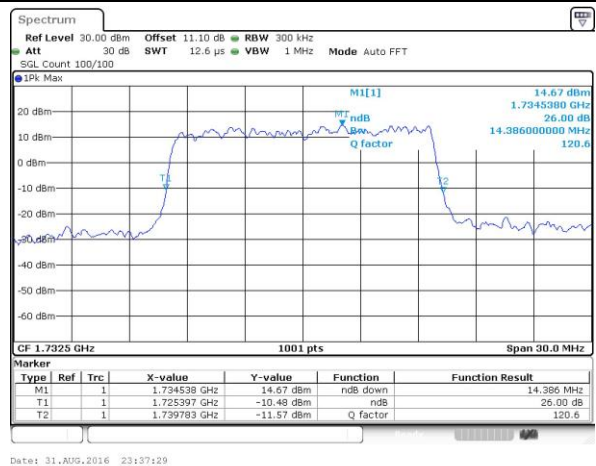
## Lowest Channel / 15MHz / 16QAM



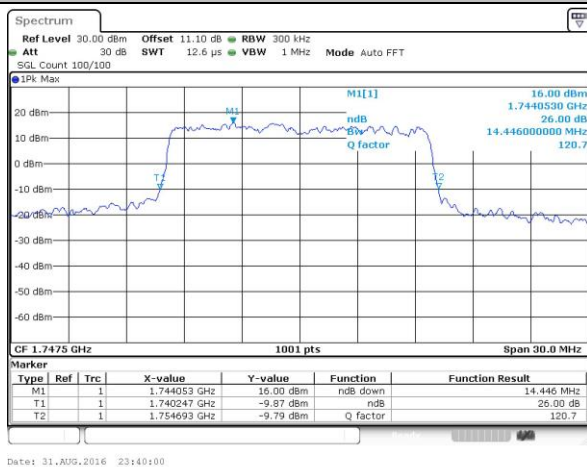
## Middle Channel / 15MHz / QPSK



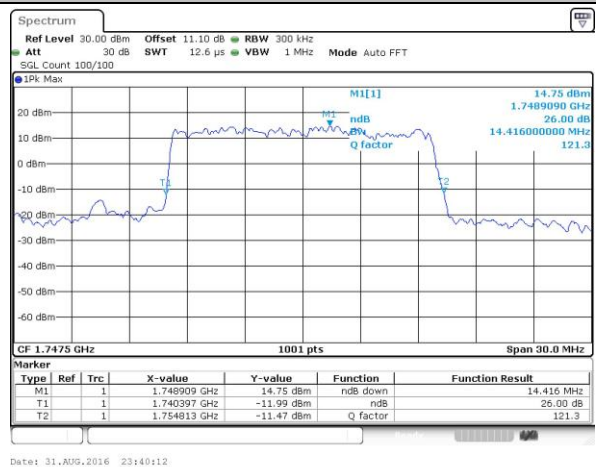
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



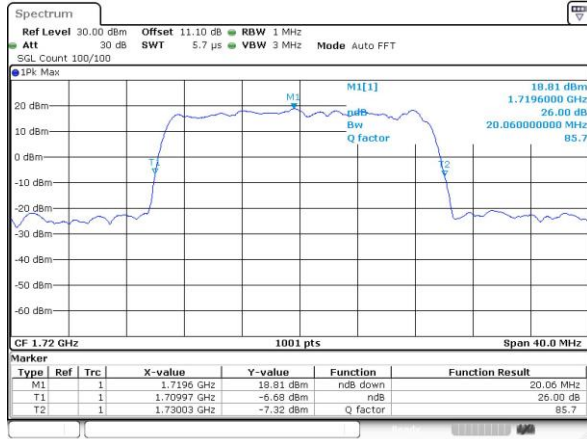
## Highest Channel / 15MHz / 16QAM



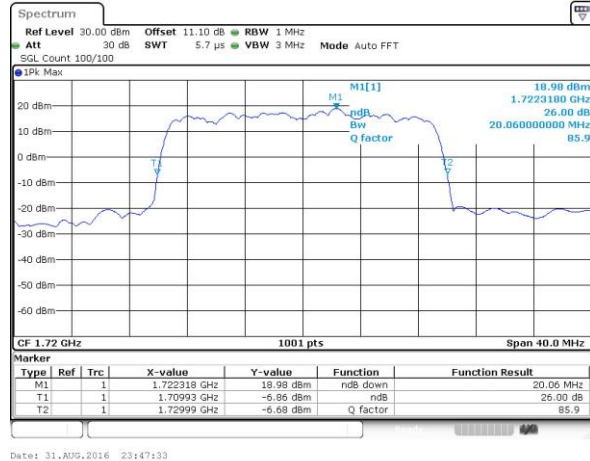


## LTE Band 4

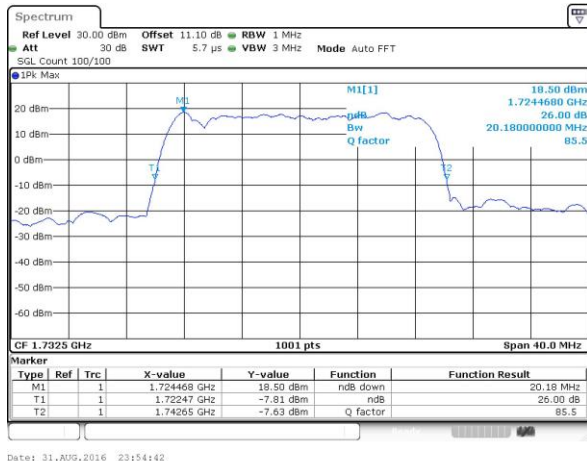
## Lowest Channel / 20MHz / QPSK



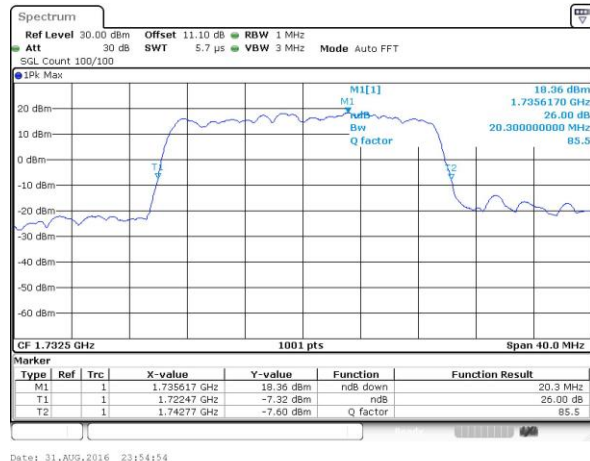
## Lowest Channel / 20MHz / 16QAM



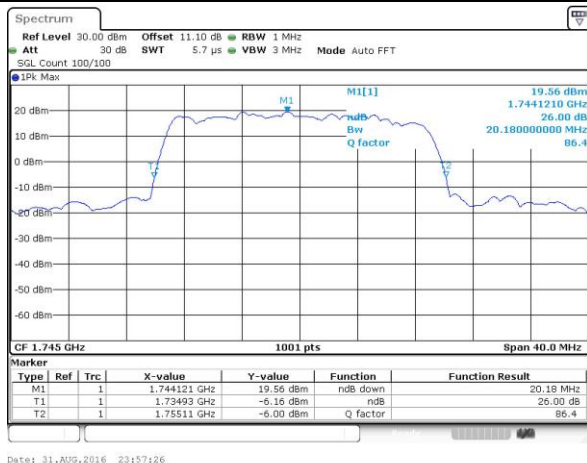
## Middle Channel / 20MHz / QPSK



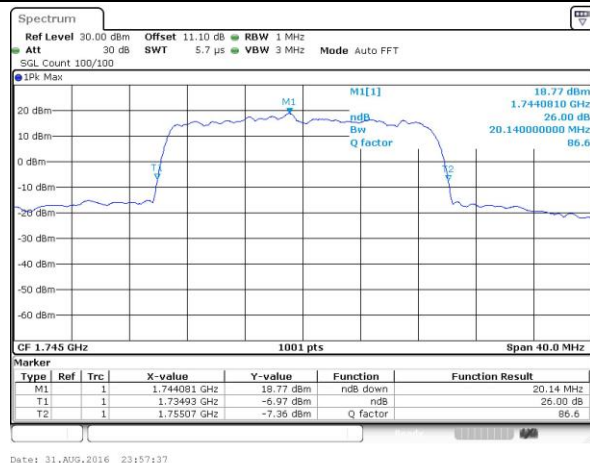
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM



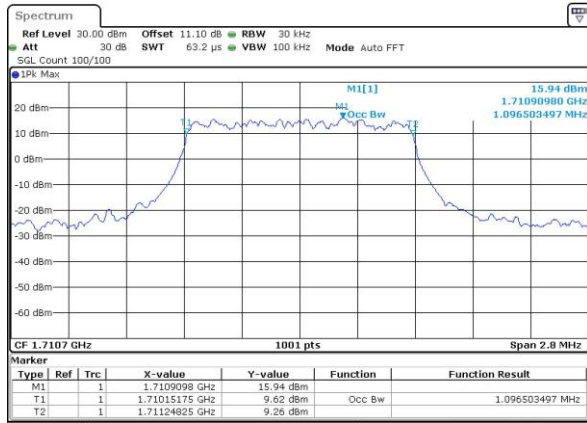
**Occupied Bandwidth**

| Mode       | LTE Band 4 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.1                      | 1.08  | 2.72 | 2.71  | 4.48 | 4.5   | 8.99  | 9.03  | 13.37 | 13.37 | 18.3  | 18.3  |
| Middle CH  | 1.09                     | 1.1   | 2.7  | 2.73  | 4.48 | 4.49  | 9.05  | 9.05  | 13.46 | 13.37 | 18.34 | 18.38 |
| Highest CH | 1.09                     | 1.09  | 2.72 | 2.73  | 4.49 | 4.5   | 9.03  | 8.97  | 13.4  | 13.37 | 18.1  | 18.26 |

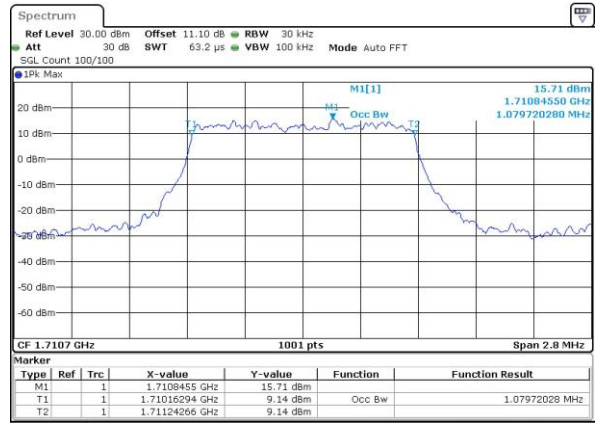


## LTE Band 4

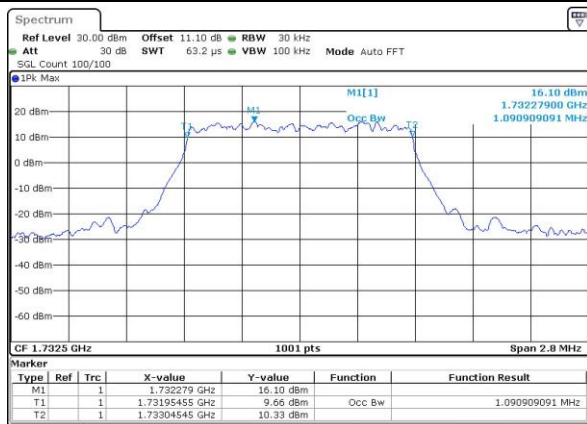
## Lowest Channel / 1.4MHz / QPSK



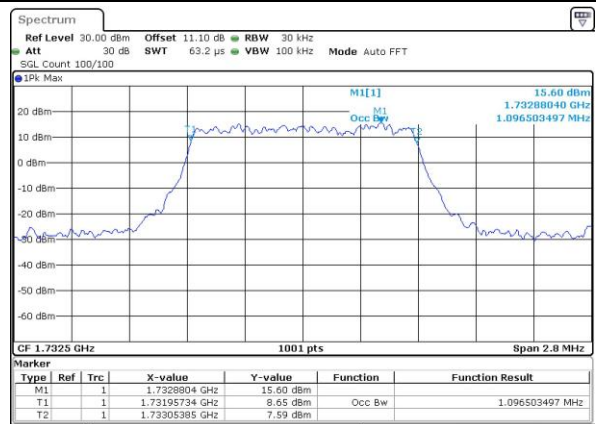
## Lowest Channel / 1.4MHz / 16QAM



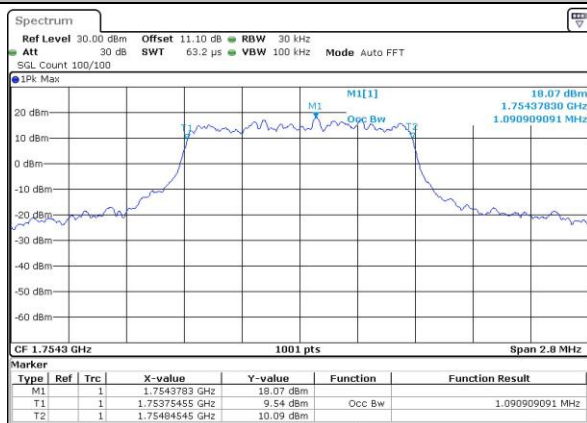
## Middle Channel / 1.4MHz / QPSK



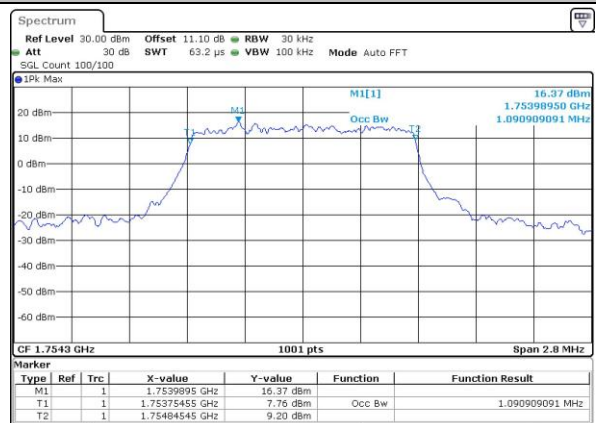
## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



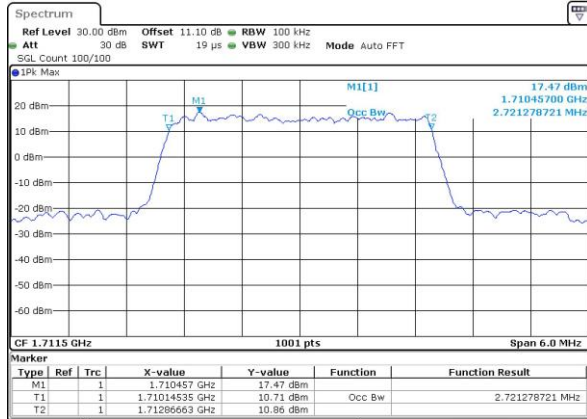
## Highest Channel / 1.4MHz / 16QAM





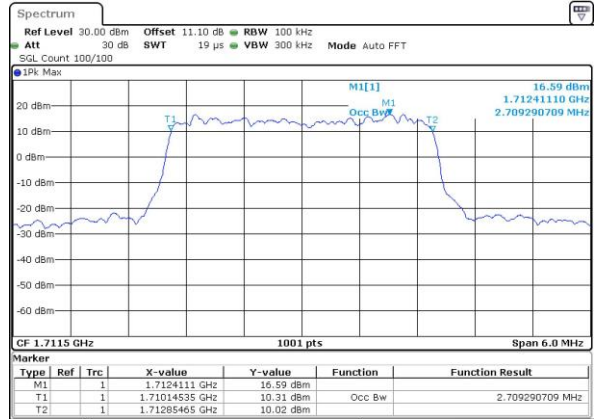
## LTE Band 4

## Lowest Channel / 3MHz / QPSK



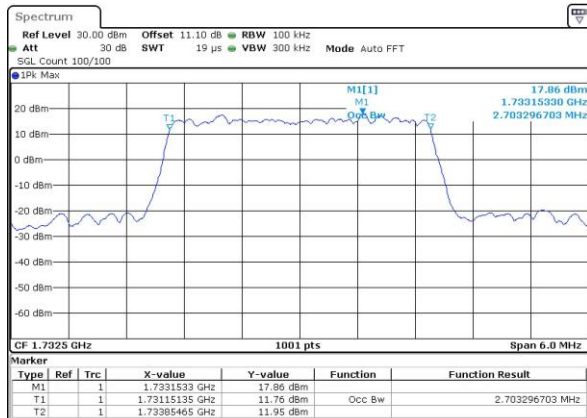
Date: 31.AUG.2016 22:31:04

## Lowest Channel / 3MHz / 16QAM



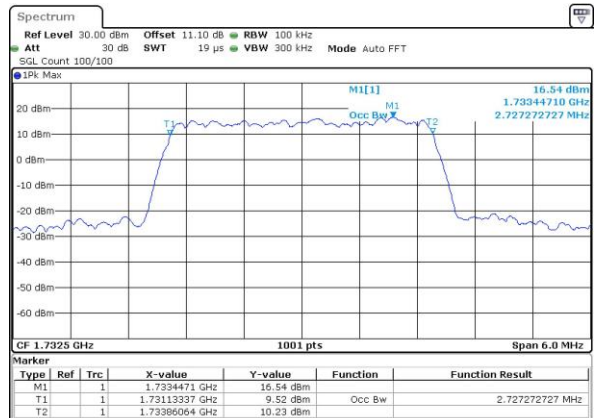
Date: 31.AUG.2016 22:31:16

## Middle Channel / 3MHz / QPSK



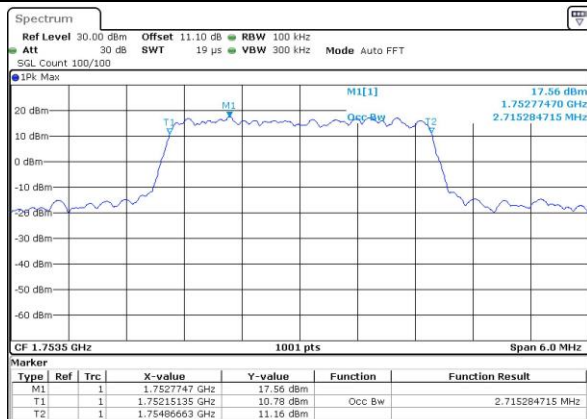
Date: 31.AUG.2016 22:38:26

## Middle Channel / 3MHz / 16QAM



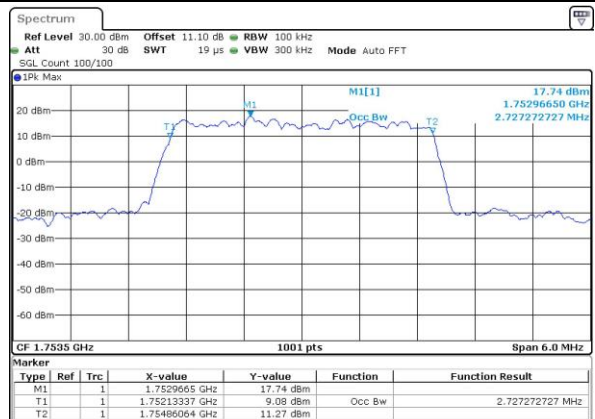
Date: 31.AUG.2016 22:38:38

## Highest Channel / 3MHz / QPSK



Date: 31.AUG.2016 22:41:10

## Highest Channel / 3MHz / 16QAM

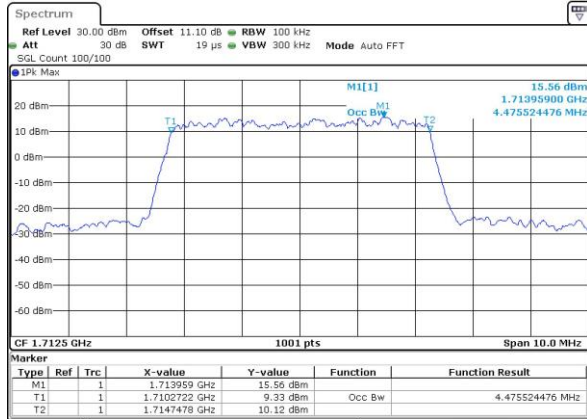


Date: 31.AUG.2016 22:41:21

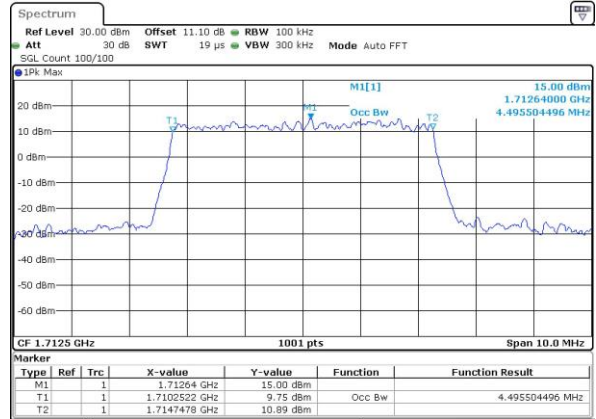


## LTE Band 4

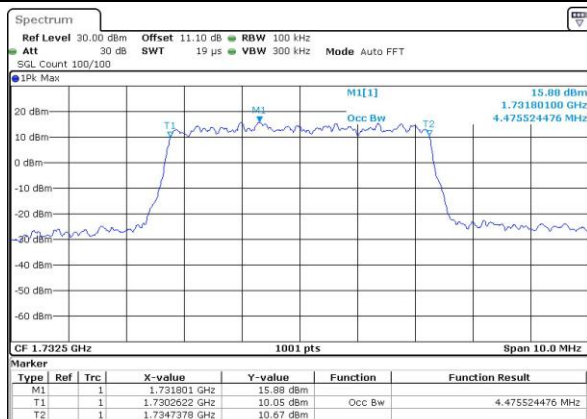
## Lowest Channel / 5MHz / QPSK



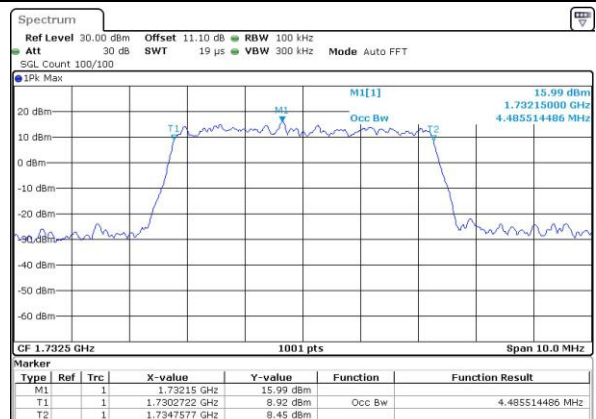
## Lowest Channel / 5MHz / 16QAM



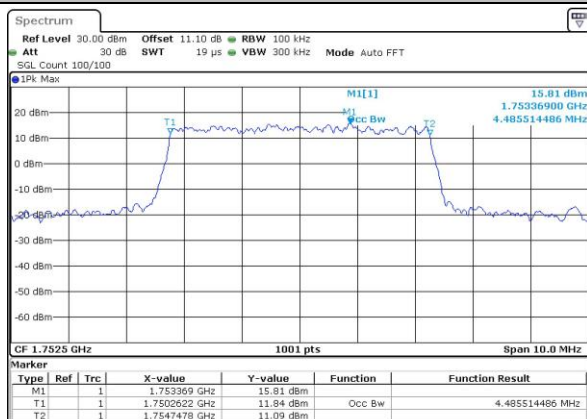
## Middle Channel / 5MHz / QPSK



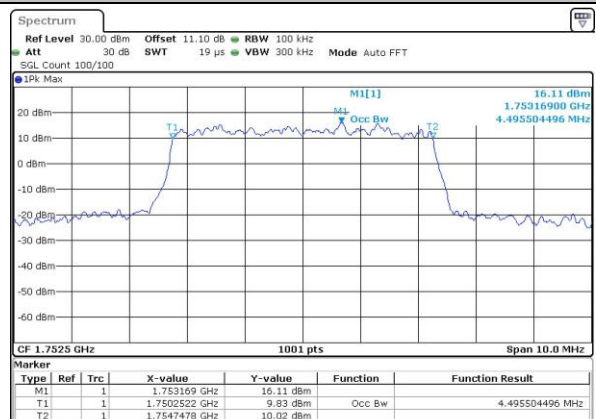
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



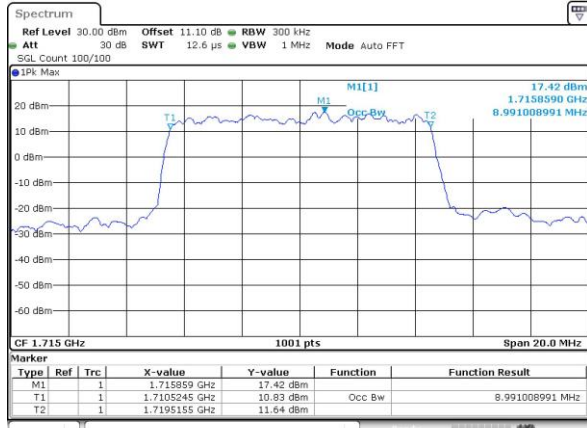
## Highest Channel / 5MHz / 16QAM





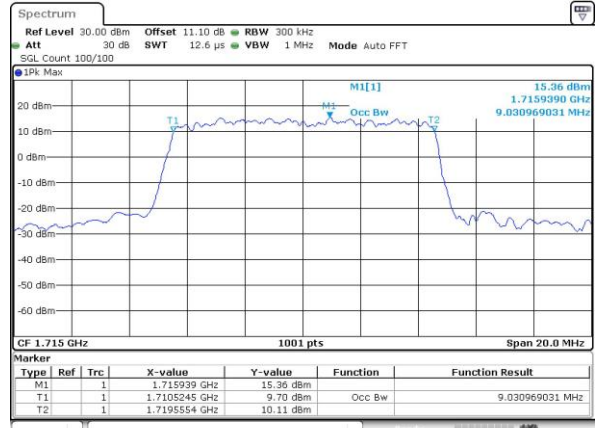
## LTE Band 4

## Lowest Channel / 10MHz / QPSK



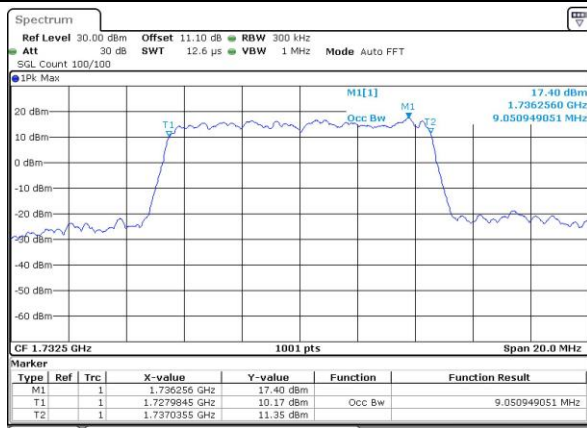
Date: 31.AUG.2016 23:05:57

## Lowest Channel / 10MHz / 16QAM



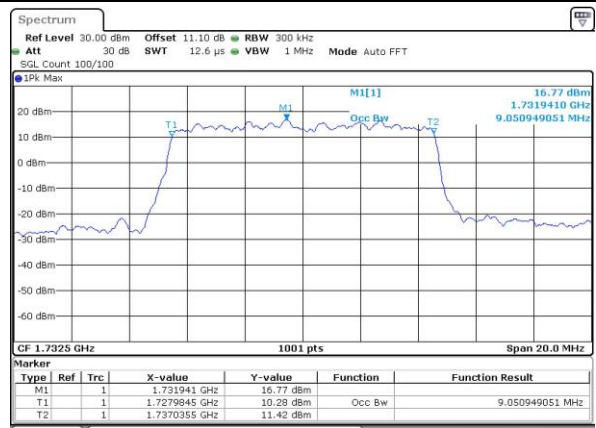
Date: 31.AUG.2016 23:06:08

## Middle Channel / 10MHz / QPSK



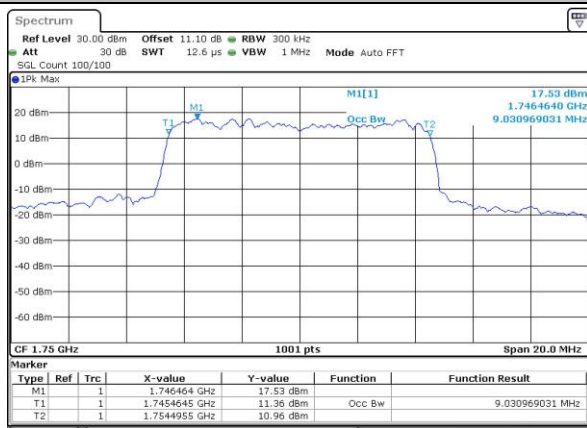
Date: 31.AUG.2016 23:13:18

## Middle Channel / 10MHz / 16QAM



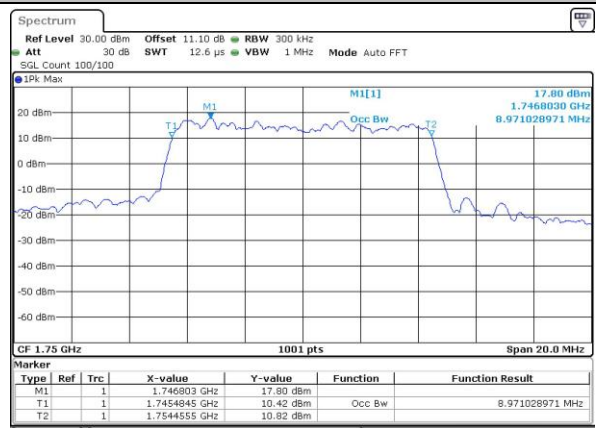
Date: 31.AUG.2016 23:13:29

## Highest Channel / 10MHz / QPSK



Date: 31.AUG.2016 23:16:01

## Highest Channel / 10MHz / 16QAM

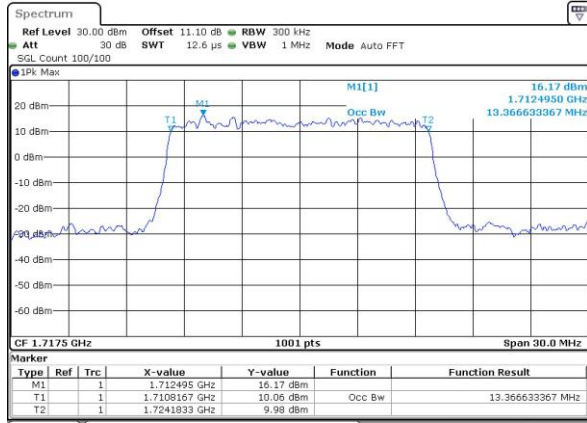


Date: 31.AUG.2016 23:16:13



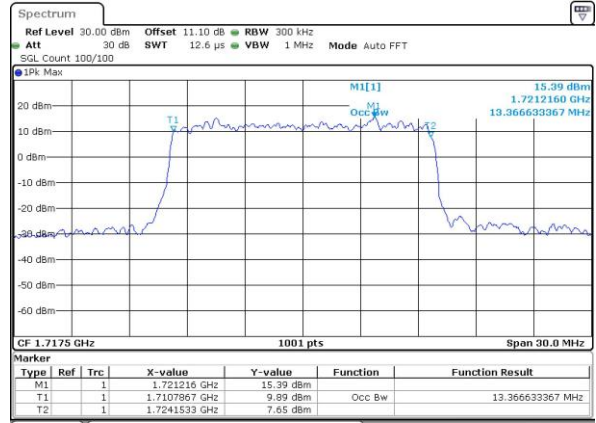
## LTE Band 4

## Lowest Channel / 15MHz / QPSK



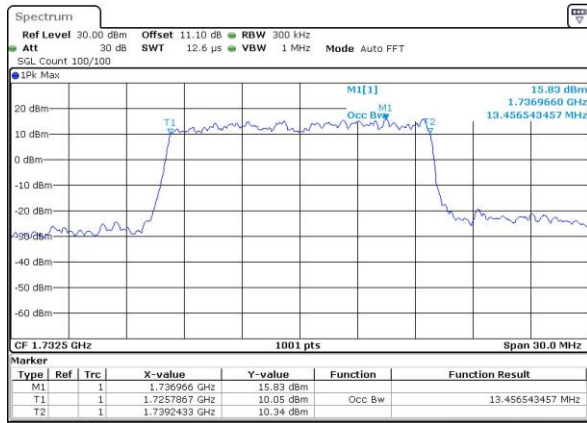
Date: 31.AUG.2016 23:29:13

## Lowest Channel / 15MHz / 16QAM



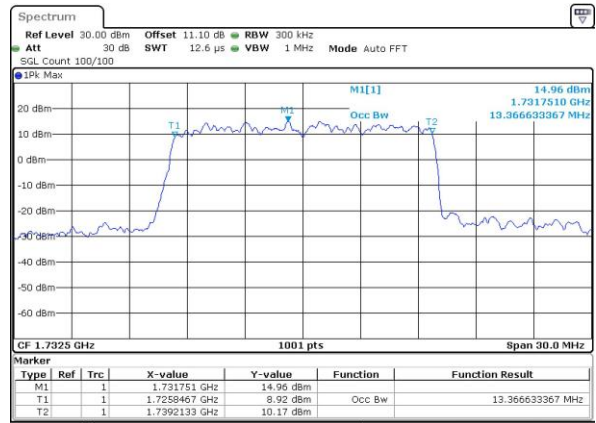
Date: 31.AUG.2016 23:29:45

## Middle Channel / 15MHz / QPSK



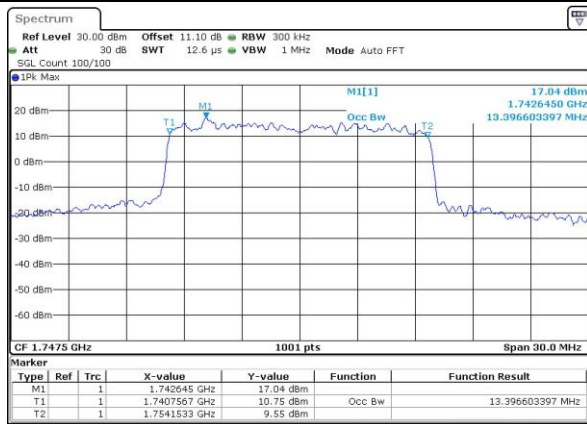
Date: 31.AUG.2016 23:36:54

## Middle Channel / 15MHz / 16QAM



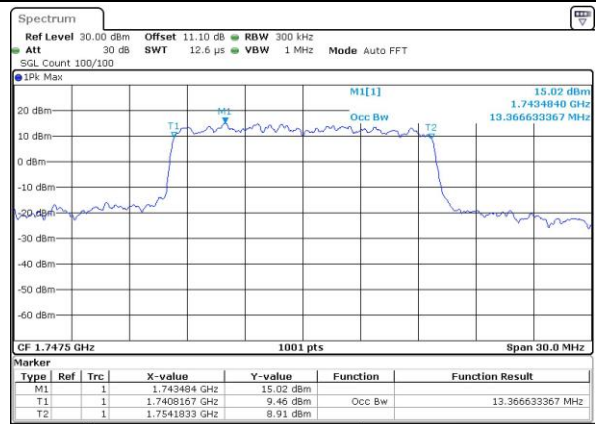
Date: 31.AUG.2016 23:37:06

## Highest Channel / 15MHz / QPSK



Date: 31.AUG.2016 23:39:37

## Highest Channel / 15MHz / 16QAM

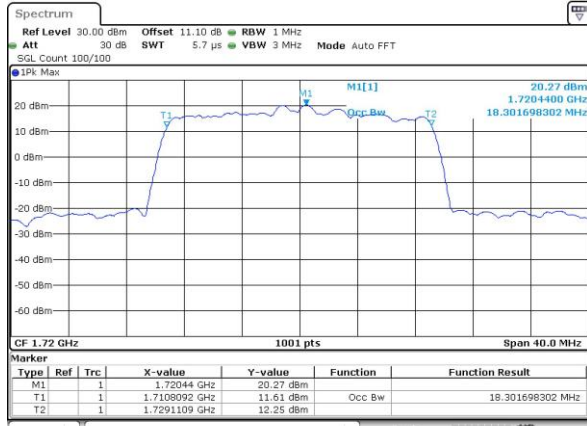


Date: 31.AUG.2016 23:39:49



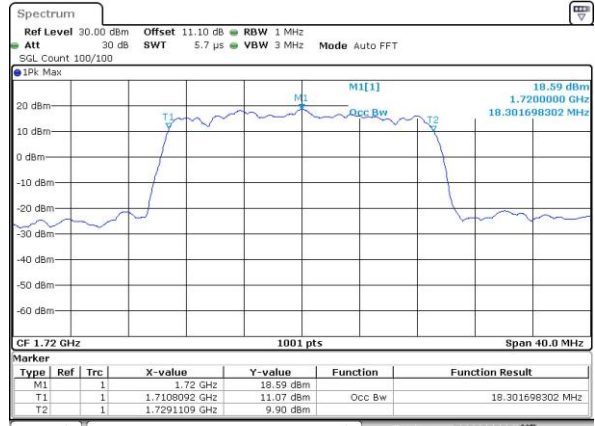
## LTE Band 4

## Lowest Channel / 20MHz / QPSK



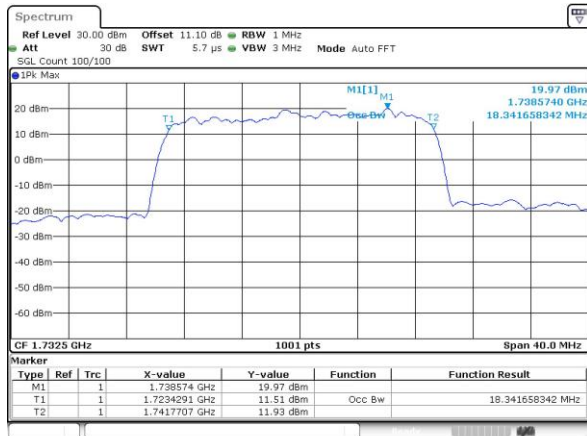
Date: 31.AUG.2016 23:46:58

## Lowest Channel / 20MHz / 16QAM



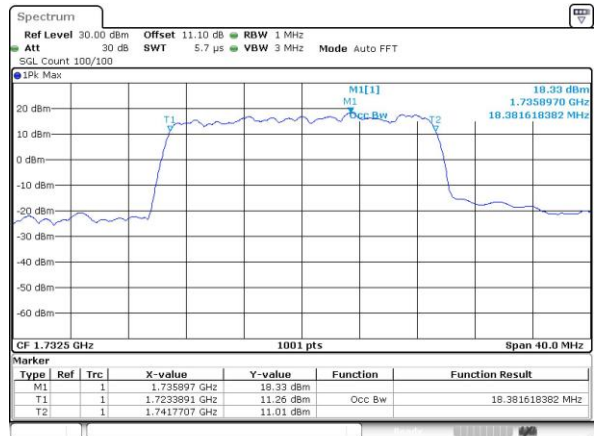
Date: 31.AUG.2016 23:47:09

## Middle Channel / 20MHz / QPSK



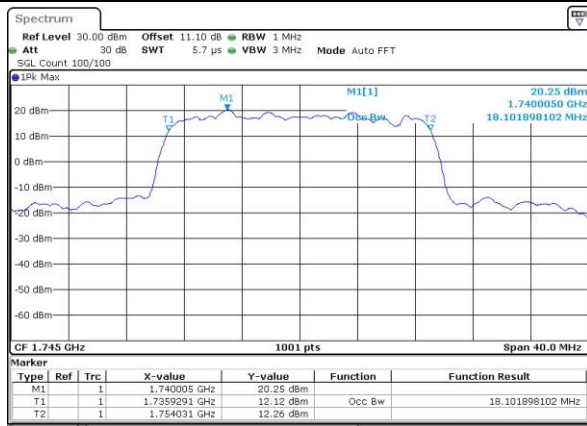
Date: 31.AUG.2016 23:54:19

## Middle Channel / 20MHz / 16QAM



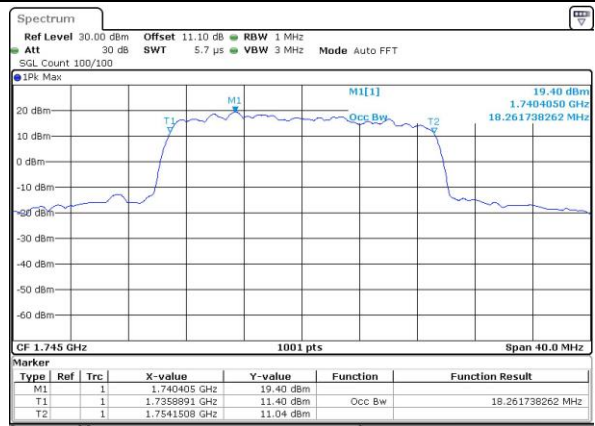
Date: 31.AUG.2016 23:54:31

## Highest Channel / 20MHz / QPSK



Date: 31.AUG.2016 23:57:02

## Highest Channel / 20MHz / 16QAM



Date: 31.AUG.2016 23:57:14



## **Conducted Band Edge**