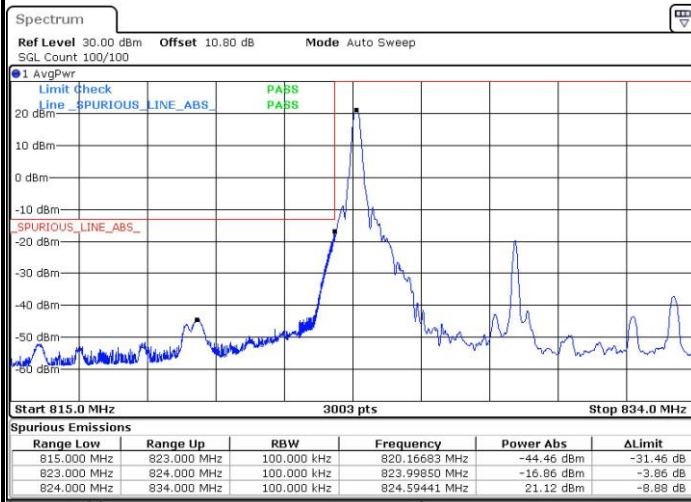


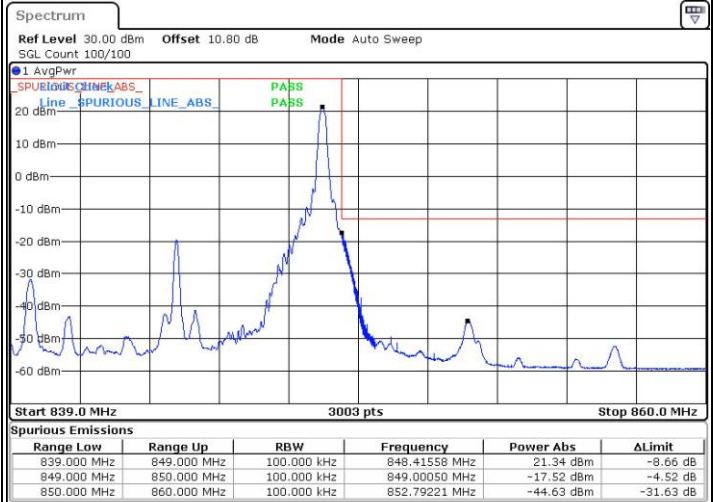


## LTE Band 5 / 10MHz / QPSK

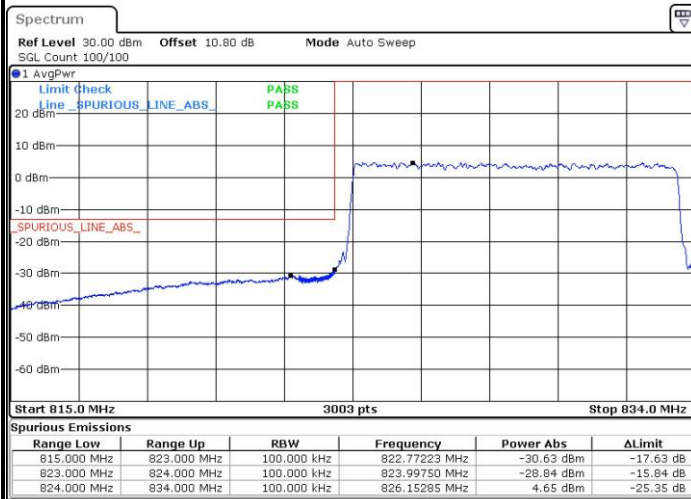
## Lowest Band Edge / 1 RB



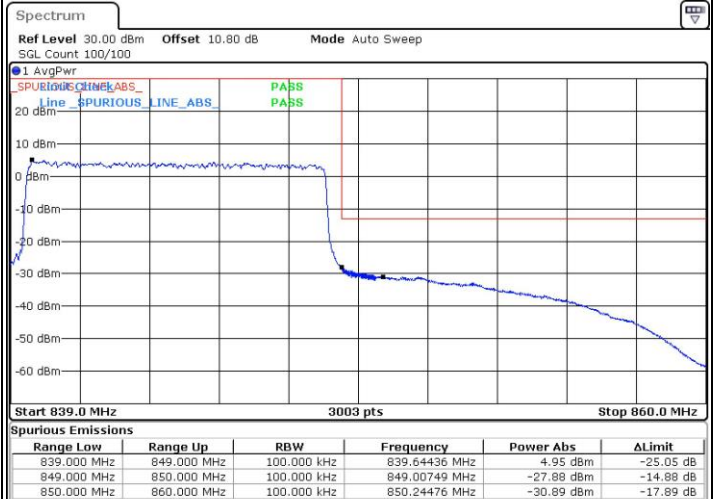
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



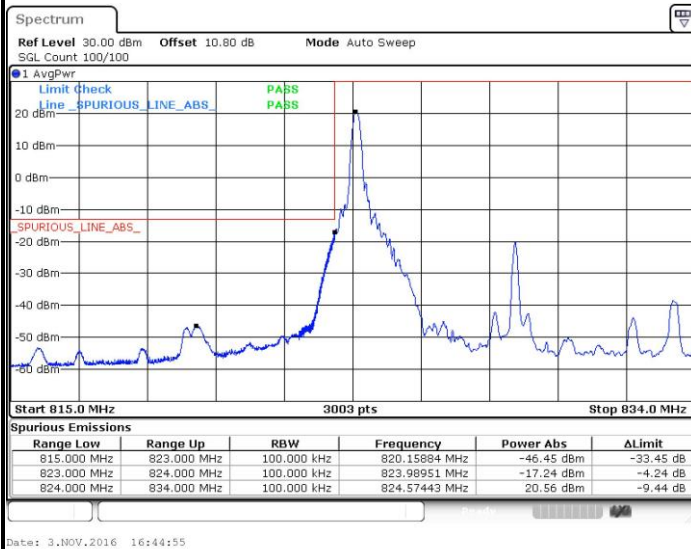
## Highest Band Edge / Full RB



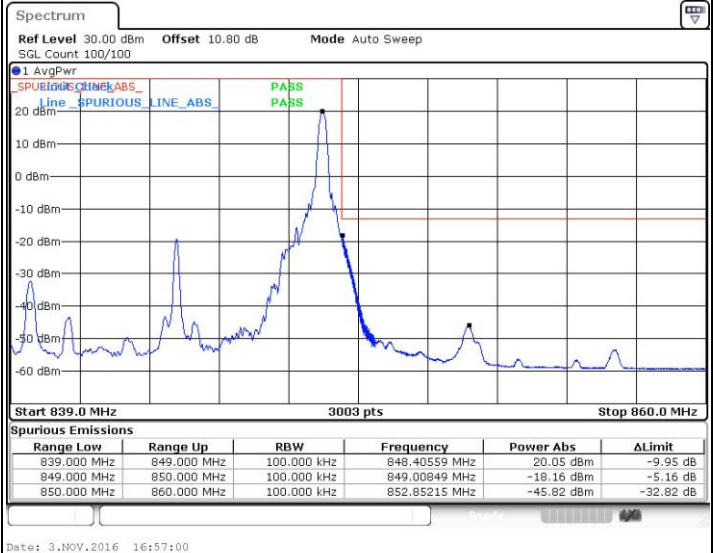


## LTE Band 5 / 10MHz / 16QAM

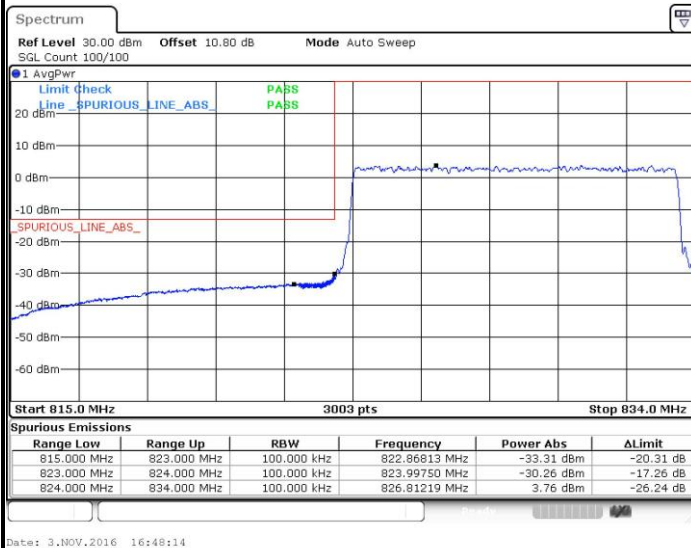
## Lowest Band Edge / 1 RB



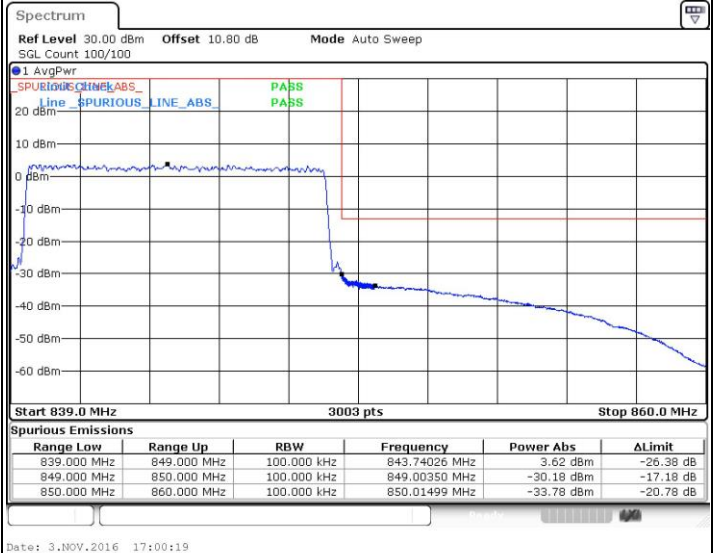
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

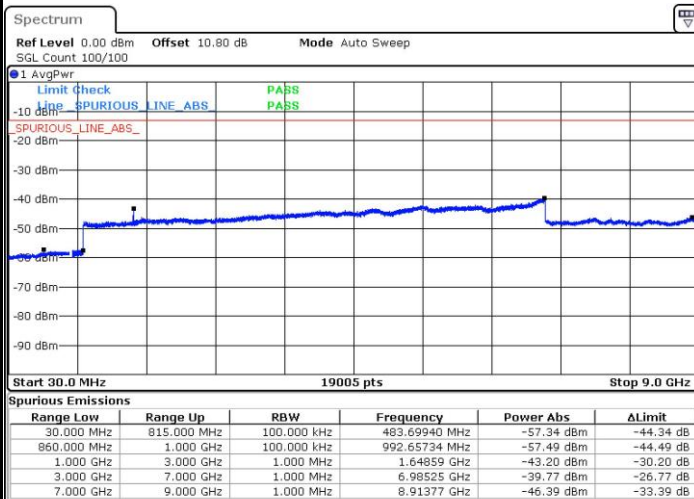




# Conducted Spurious Emission

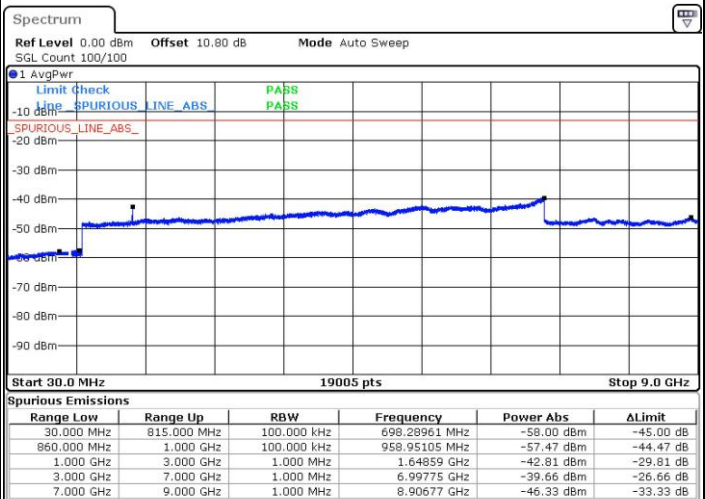
## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK



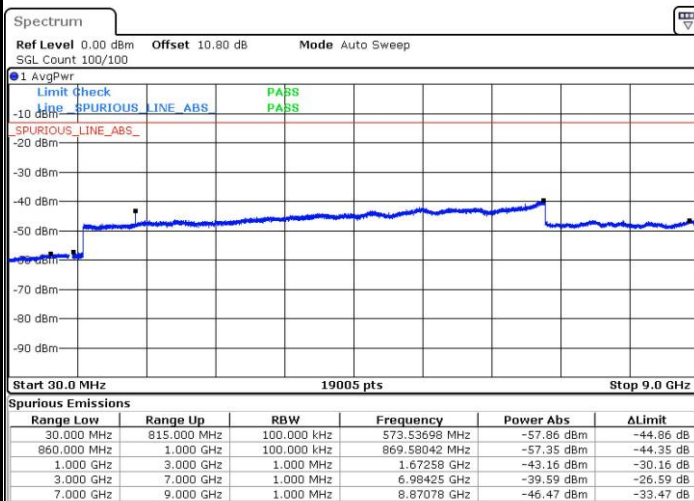
Date: 3.NOV.2016 17:10:38

### Lowest Channel / 16QAM



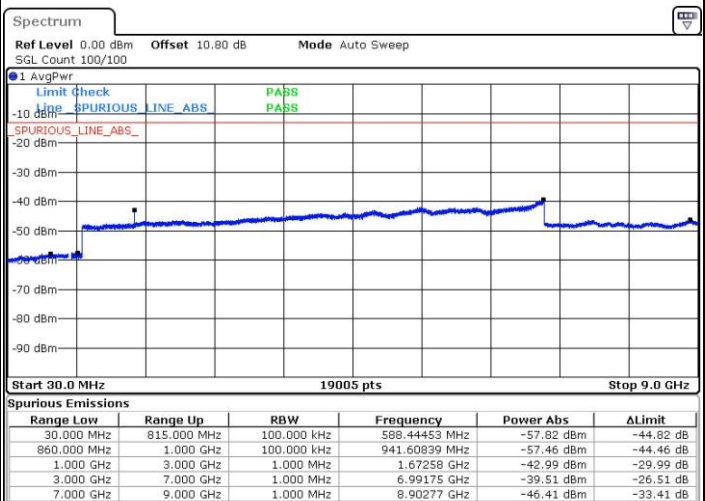
Date: 3.NOV.2016 17:11:37

### Middle Channel / QPSK



Date: 3.NOV.2016 17:13:22

### Middle Channel / 16QAM

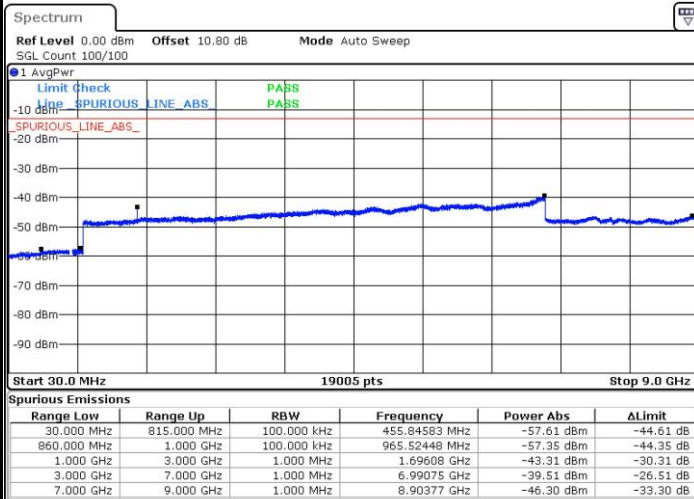


Date: 3.NOV.2016 17:14:20



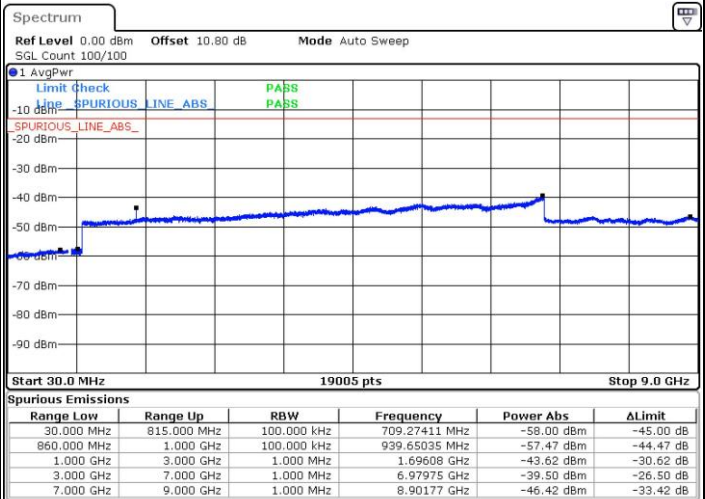
## LTE Band 5 / 1.4MHz

## Highest Channel / QPSK



Date: 3.NOV.2016 17:22:44

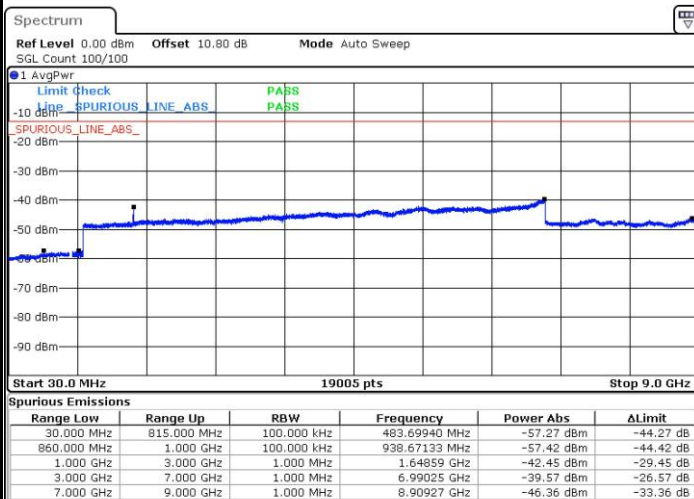
## Highest Channel / 16QAM



Date: 3.NOV.2016 17:23:42

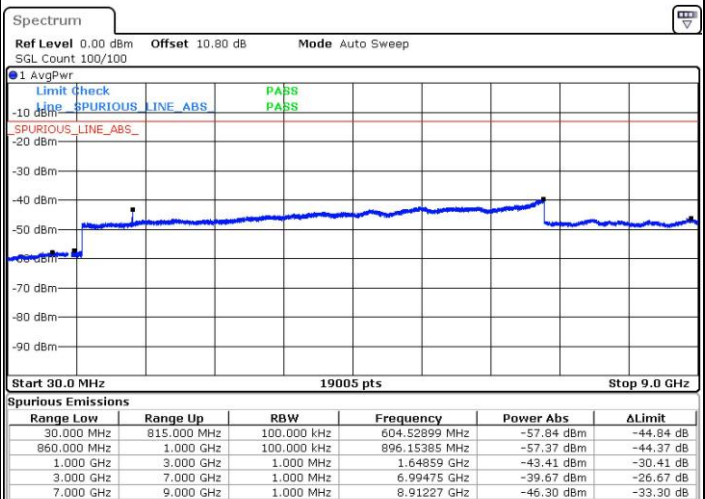
## LTE Band 5 / 3MHz

## Lowest Channel / QPSK



Date: 3.NOV.2016 16:06:18

## Lowest Channel / 16QAM

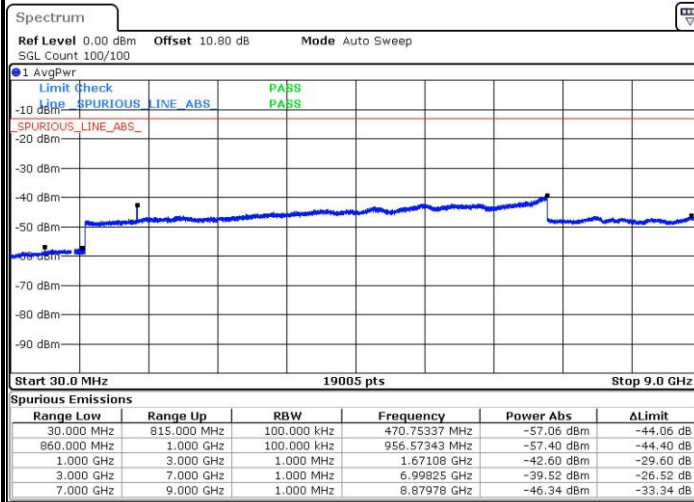


Date: 3.NOV.2016 16:07:17



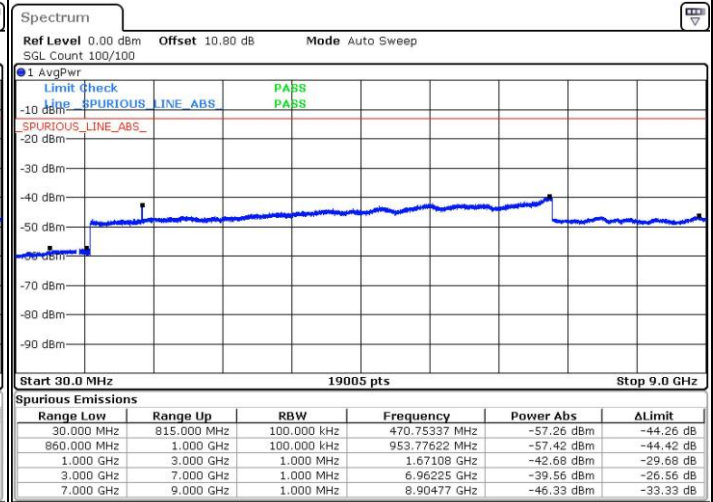
## LTE Band 5 / 3MHz

## Middle Channel / QPSK



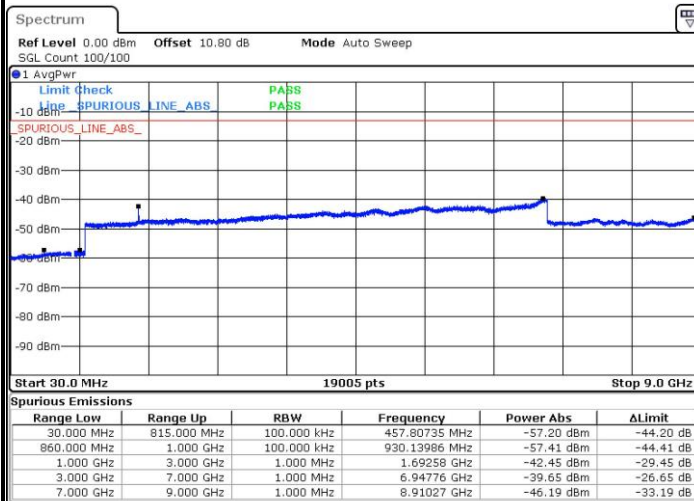
Date: 3.NOV.2016 16:09:02

## Middle Channel / 16QAM



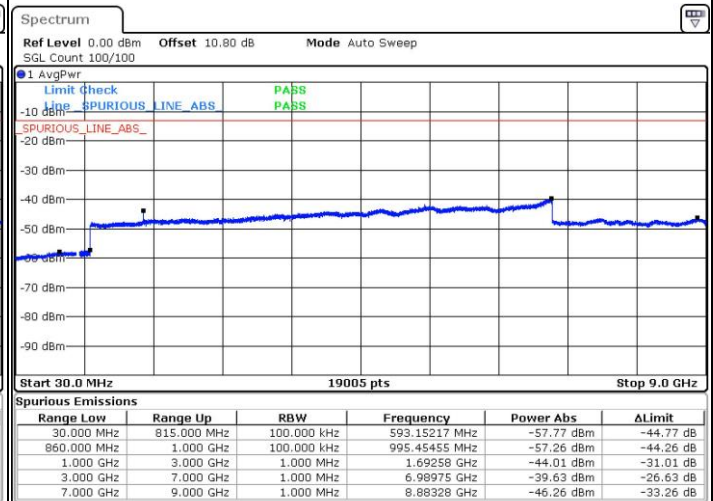
Date: 3.NOV.2016 16:10:00

## Highest Channel / QPSK



Date: 3.NOV.2016 16:18:24

## Highest Channel / 16QAM

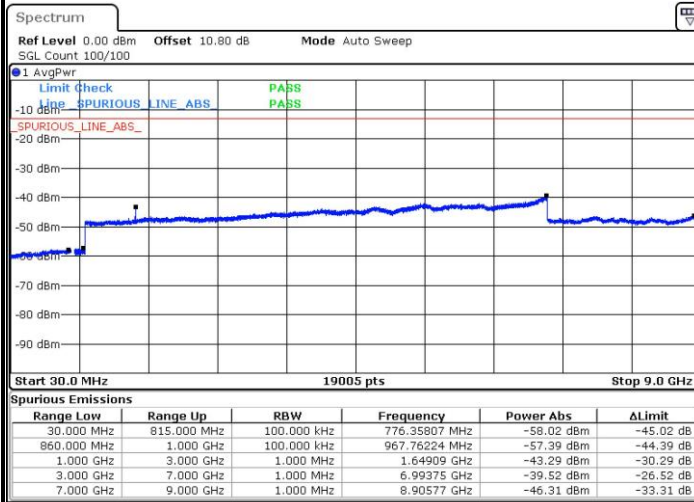


Date: 3.NOV.2016 16:19:22



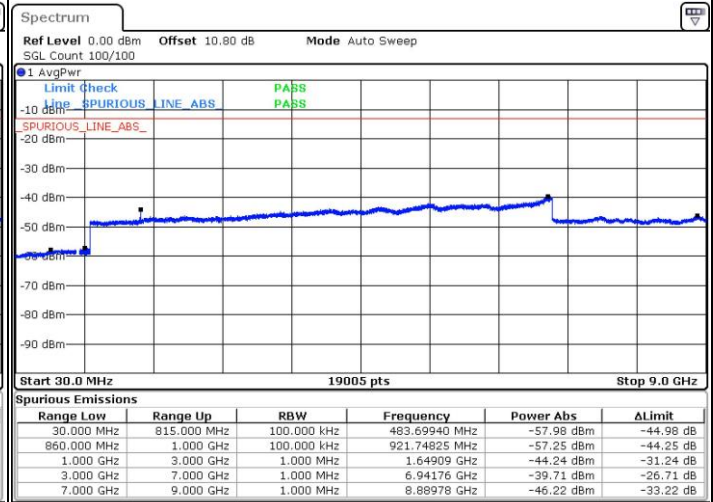
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



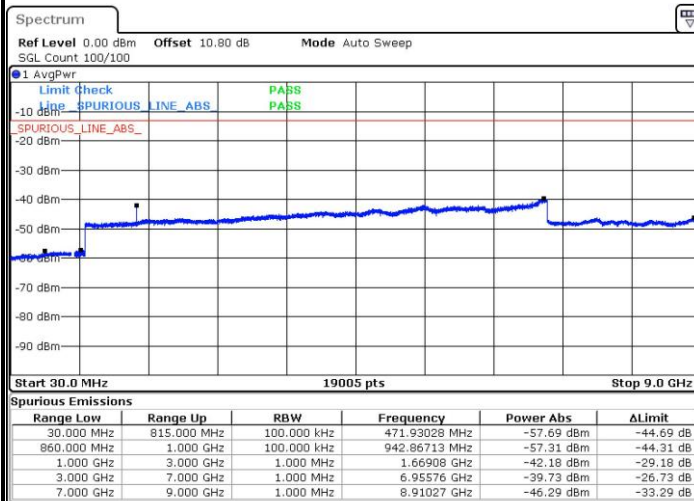
Date: 3.NOV.2016 16:27:45

## Lowest Channel / 16QAM



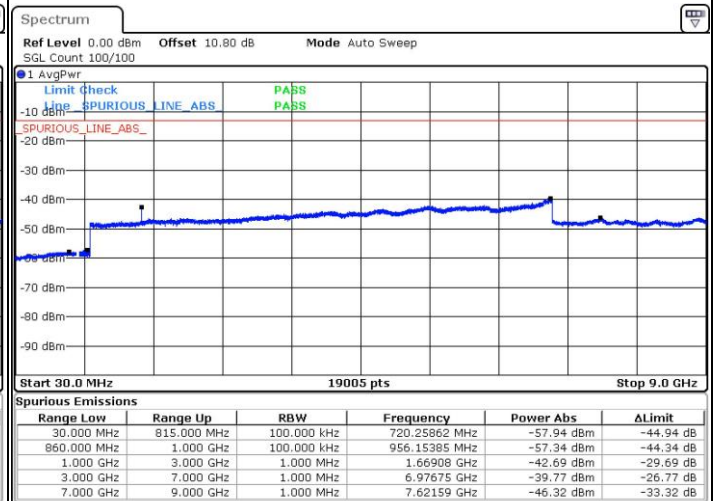
Date: 3.NOV.2016 16:28:44

## Middle Channel / QPSK



Date: 3.NOV.2016 16:30:29

## Middle Channel / 16QAM

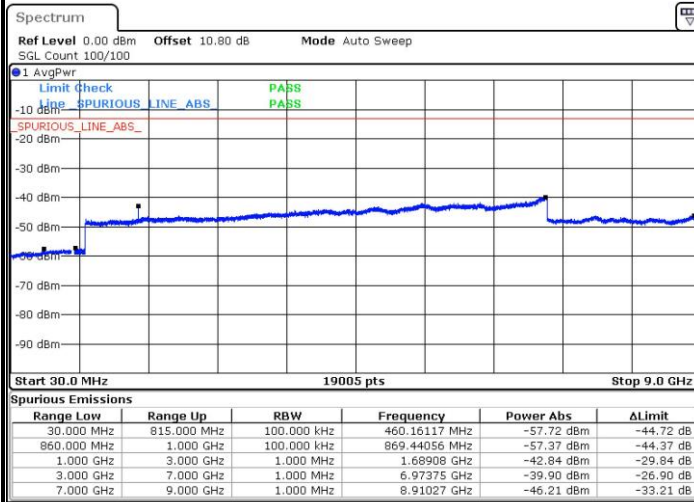


Date: 3.NOV.2016 16:31:27



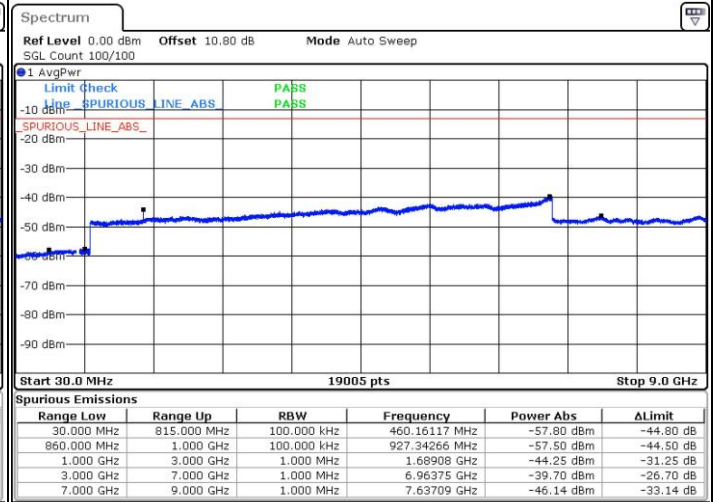
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 3.NOV.2016 16:39:50

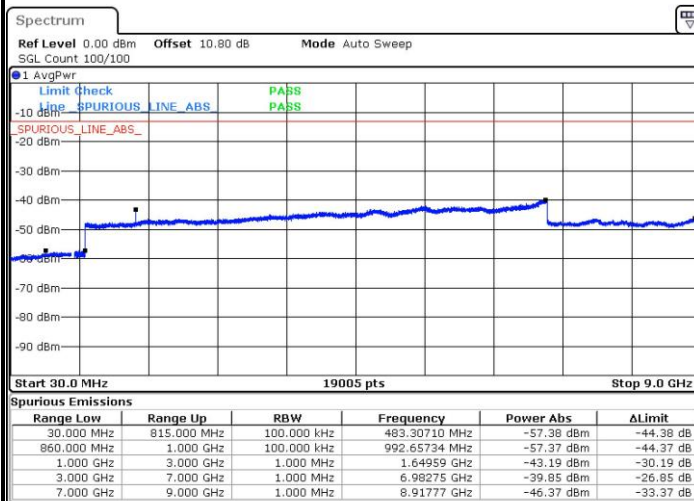
## Highest Channel / 16QAM



Date: 3.NOV.2016 16:40:48

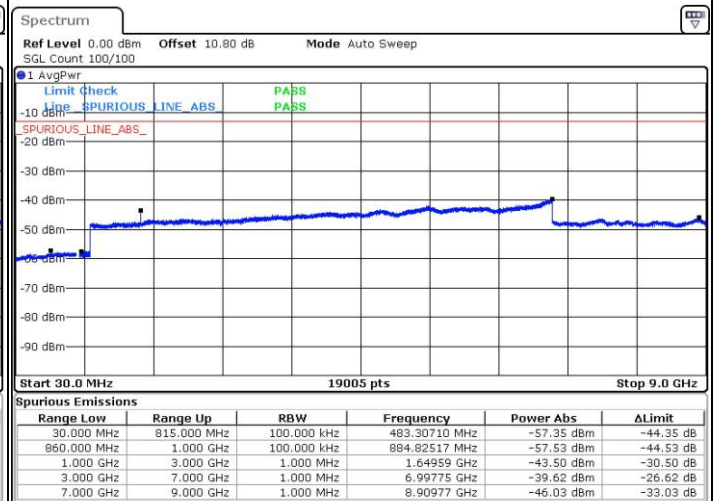
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 3.NOV.2016 16:49:12

## Lowest Channel / 16QAM

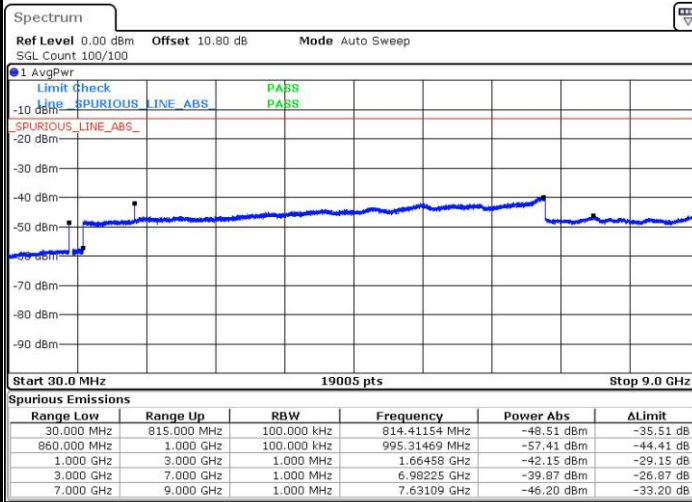


Date: 3.NOV.2016 16:50:10



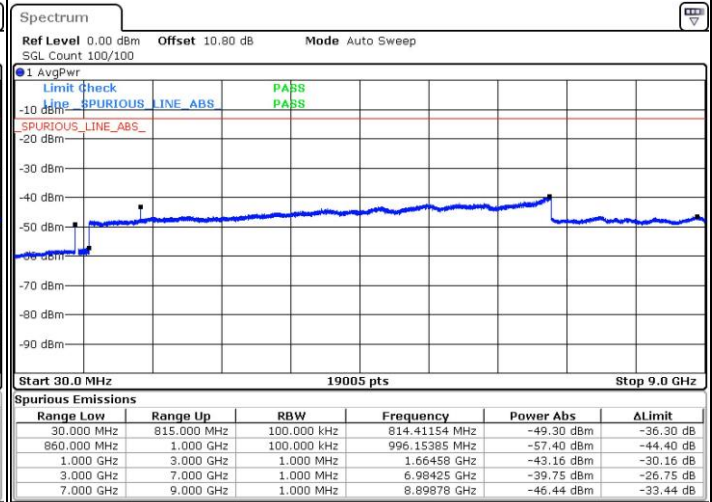
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



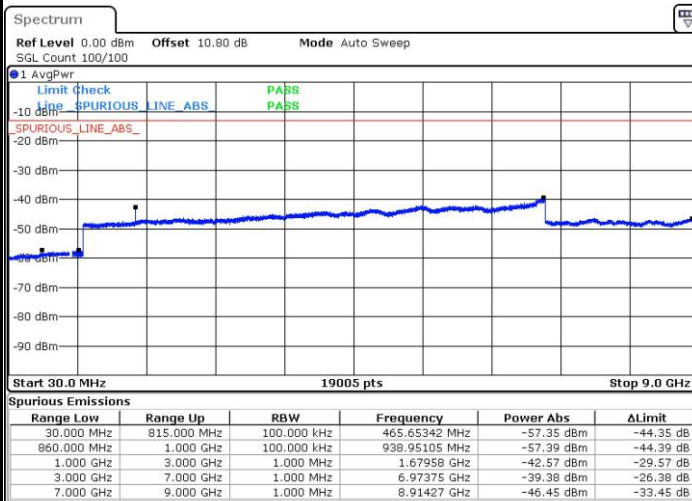
Date: 3.NOV.2016 16:51:55

## Middle Channel / 16QAM



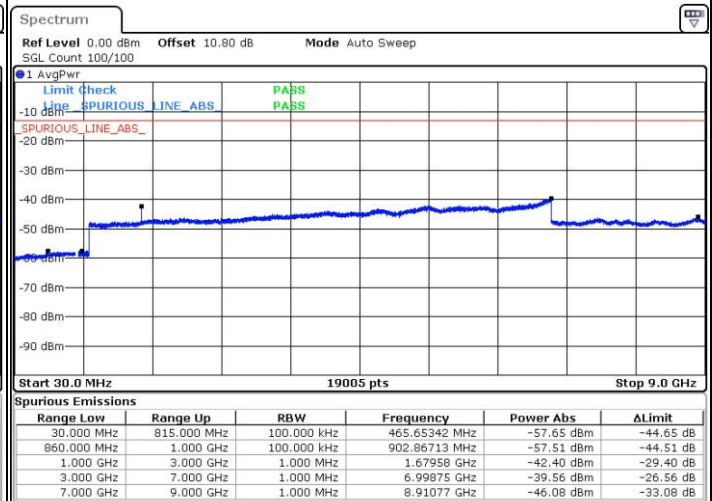
Date: 3.NOV.2016 16:52:53

## Highest Channel / QPSK



Date: 3.NOV.2016 17:01:17

## Highest Channel / 16QAM



Date: 3.NOV.2016 17:02:15

## Frequency Stability

| Test Conditions  |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | 2.5ppm |
|                  |                   | Deviation (ppm)                    | Result |
| 50               | Normal Voltage    | 0.0011                             | PASS   |
| 40               | Normal Voltage    | 0.0103                             |        |
| 30               | Normal Voltage    | 0.0130                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0017                             |        |
| 0                | Normal Voltage    | 0.0007                             |        |
| -10              | Normal Voltage    | 0.0122                             |        |
| -20              | Normal Voltage    | 0.0001                             |        |
| -30              | Normal Voltage    | 0.0014                             |        |
| 20               | Maximum Voltage   | 0.0129                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0109                             |        |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7

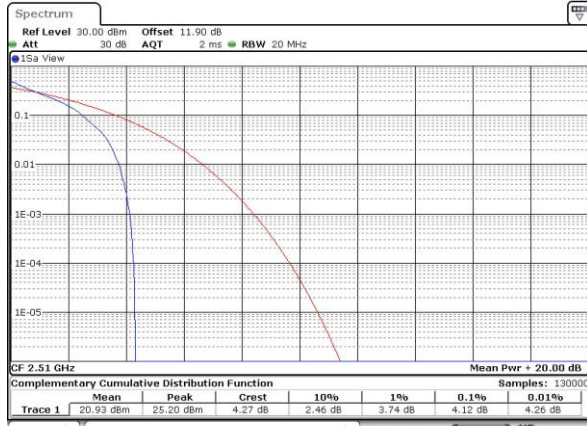
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.12               | 5.33    | 5.33  | 6.26    | PASS        |
| Middle CH  | 4.67               | 5.42    | 5.62  | 6.32    |             |
| Highest CH | 4.38               | 5.54    | 4.87  | 6.32    |             |

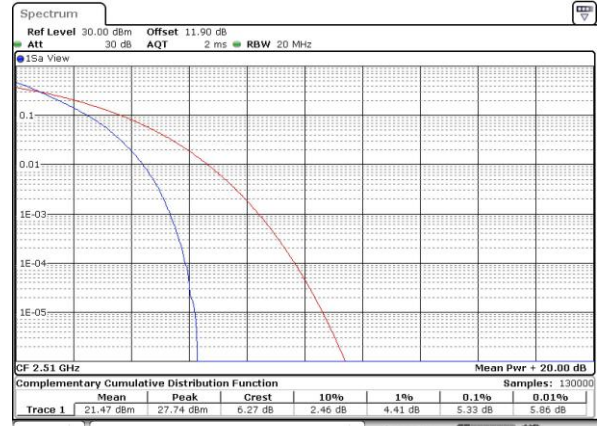


## LTE Band 7 / 20MHz / QPSK

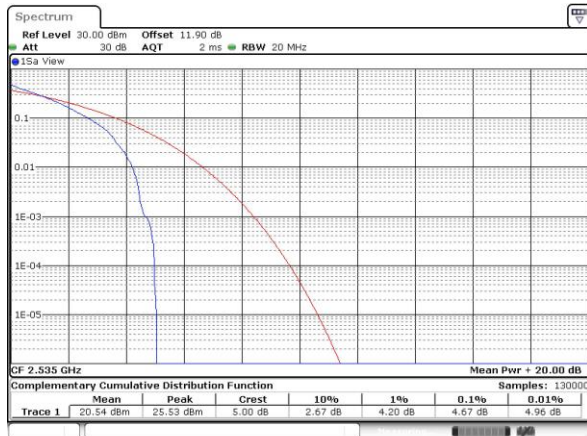
## Lowest Channel / 1RB



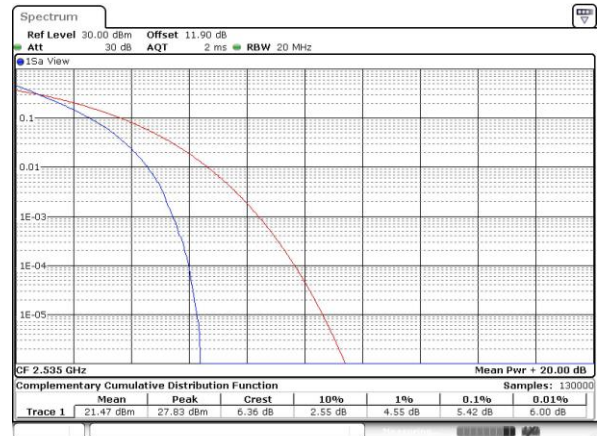
## Lowest Channel / Full RB



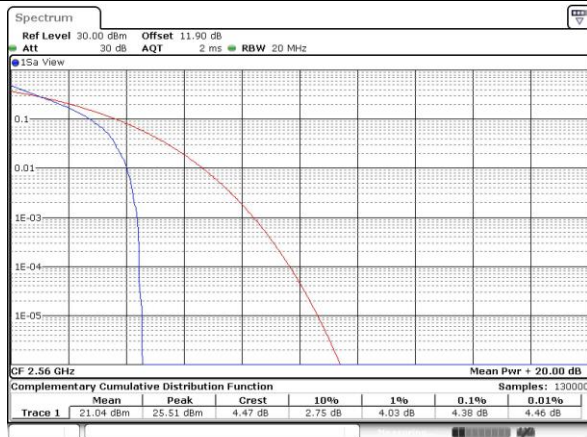
## Middle Channel / 1RB



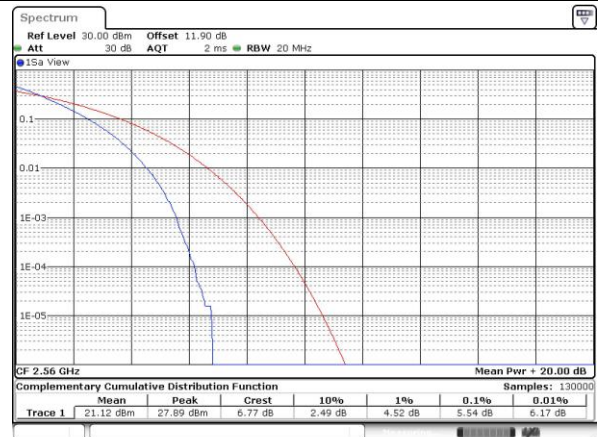
## Middle Channel / Full RB



## Highest Channel / 1RB



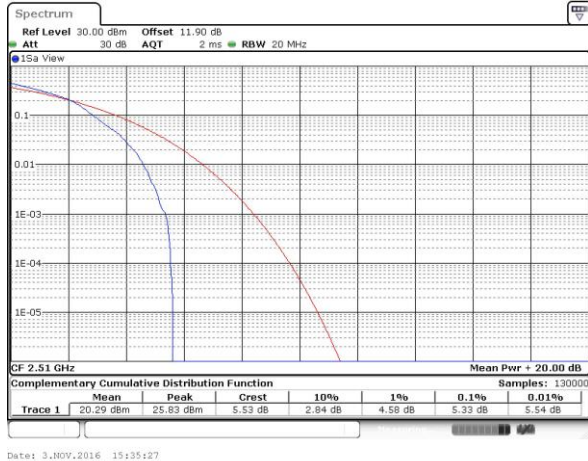
## Highest Channel / Full RB



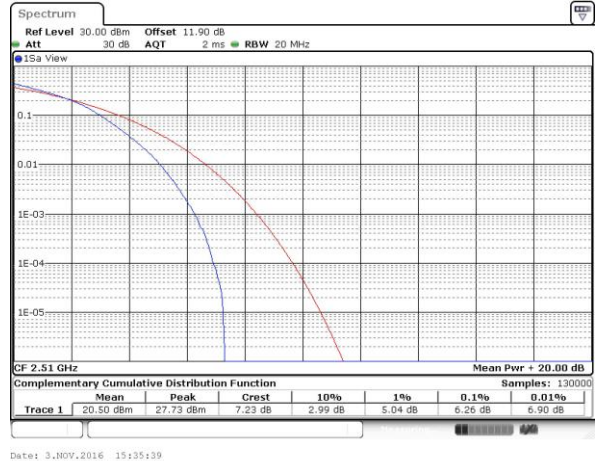


## LTE Band 7 / 20MHz / 16QAM

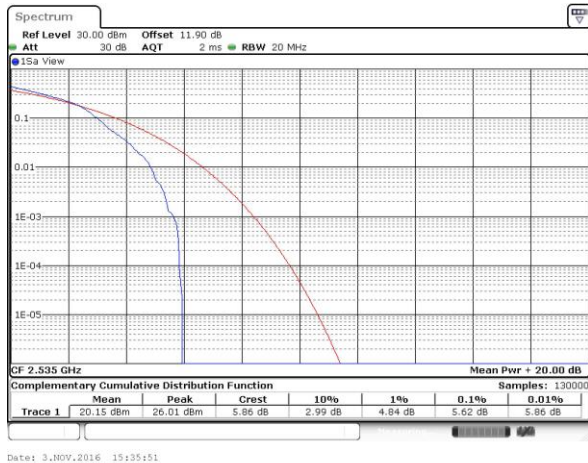
## Lowest Channel / 1RB



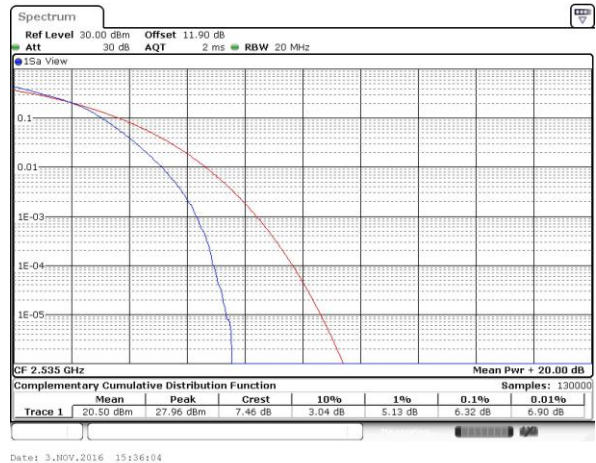
## Lowest Channel / Full RB



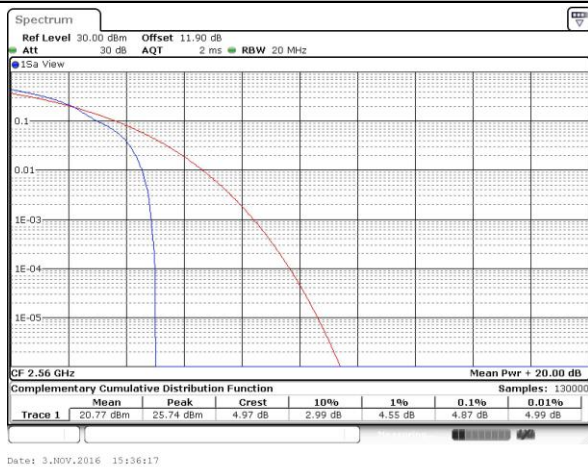
## Middle Channel / 1RB



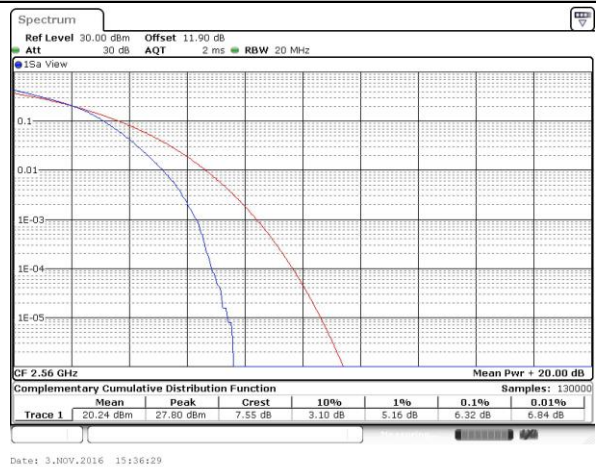
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





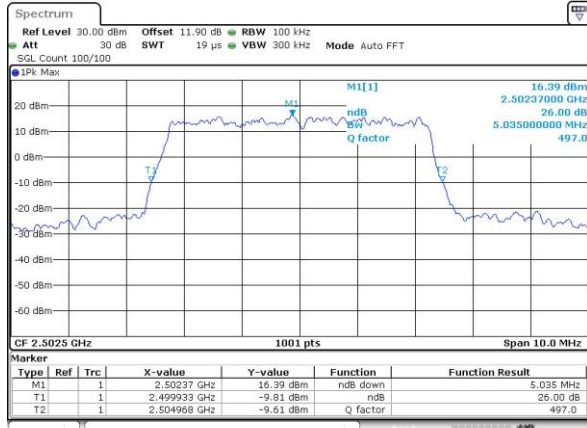
## 26dB Bandwidth

| Mode       | LTE Band 7 : 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  | -                         | -     | -    | -     | 5.04 | 5.05  | 9.91  | 9.65  | 14.15 | 14.42 | 20.30 | 20.18 |
| Middle CH  | -                         | -     | -    | -     | 4.95 | 5.04  | 9.87  | 10.03 | 14.51 | 14.63 | 20.14 | 20.34 |
| Highest CH | -                         | -     | -    | -     | 5.01 | 4.90  | 9.93  | 10.09 | 14.54 | 14.93 | 20.34 | 20.30 |



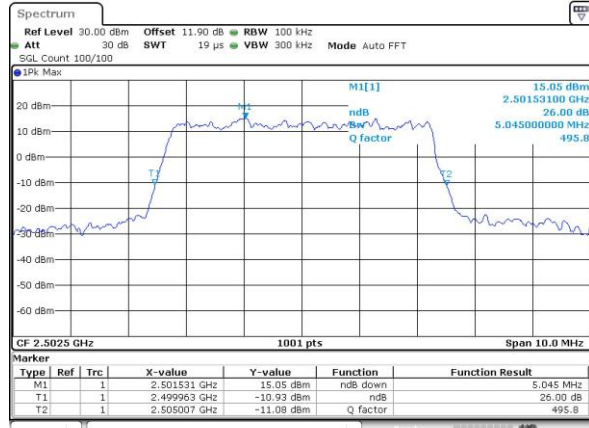
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



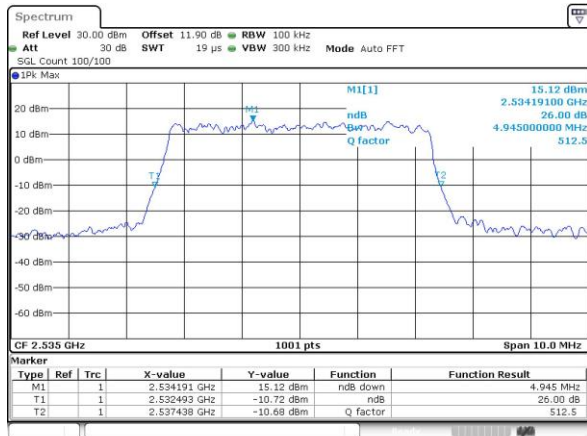
Date: 3,NOV,2016 14:22:52

## Lowest Channel / 5MHz / 16QAM



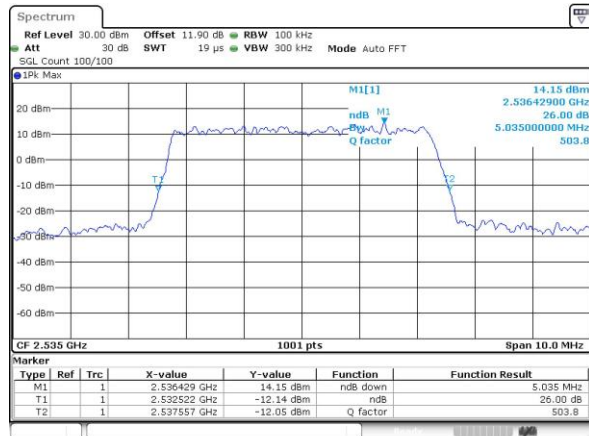
Date: 3,NOV,2016 14:23:04

## Middle Channel / 5MHz / QPSK



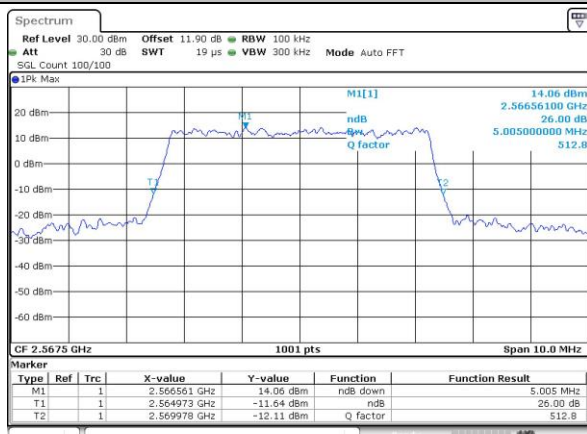
Date: 3,NOV,2016 14:30:15

## Middle Channel / 5MHz / 16QAM



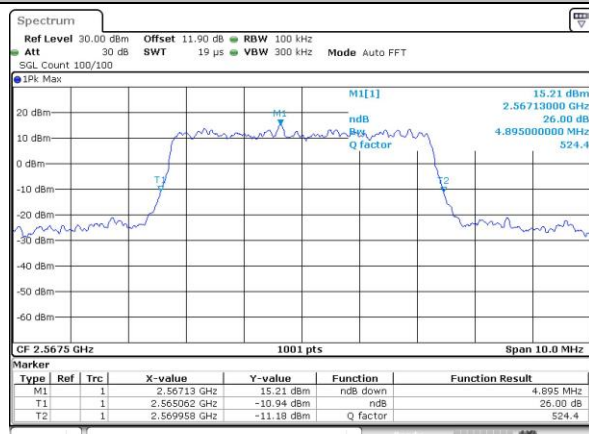
Date: 3,NOV,2016 14:30:27

## Highest Channel / 5MHz / QPSK



Date: 3,NOV,2016 14:32:58

## Highest Channel / 5MHz / 16QAM

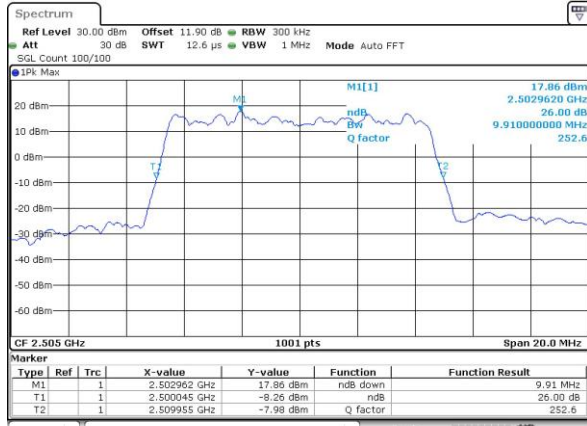


Date: 3,NOV,2016 14:33:09

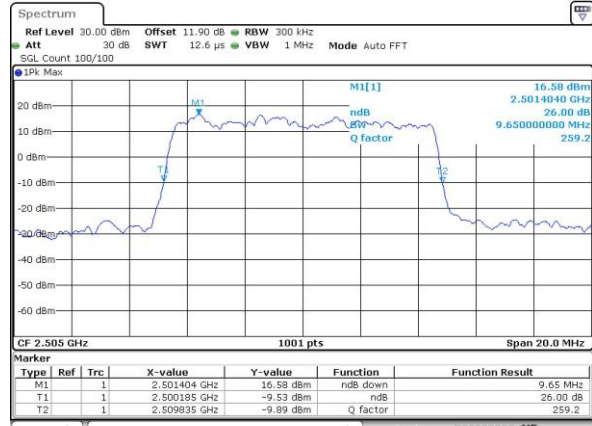


## LTE Band 7

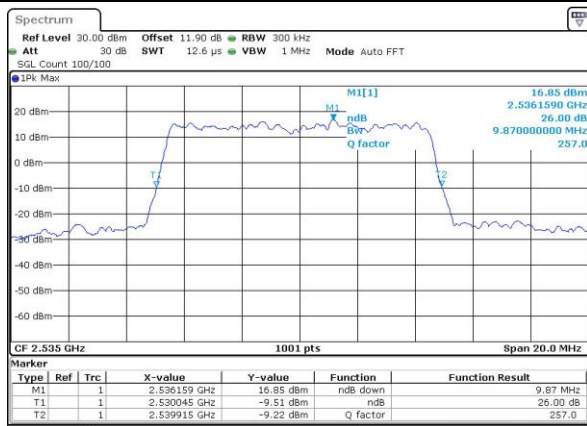
## Lowest Channel / 10MHz / QPSK



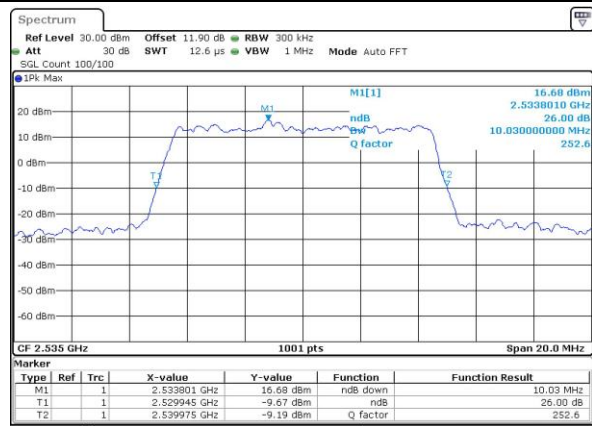
## Lowest Channel / 10MHz / 16QAM



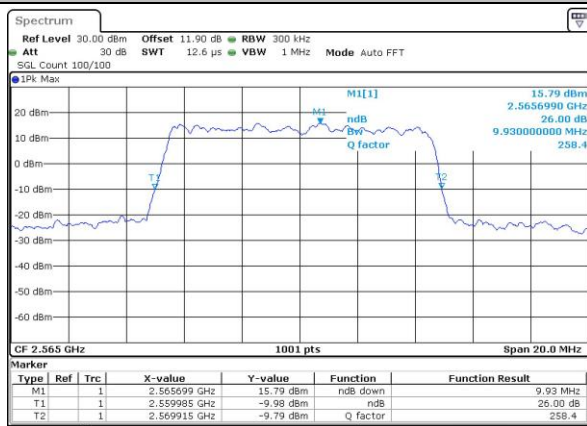
## Middle Channel / 10MHz / QPSK



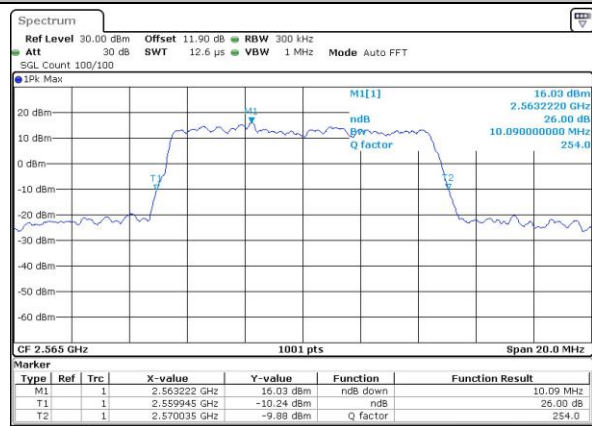
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



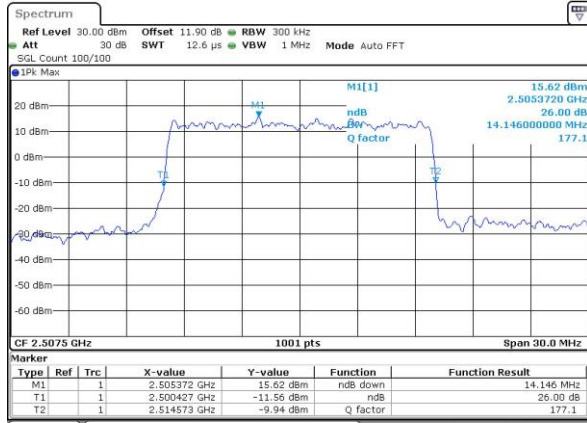
## Highest Channel / 10MHz / 16QAM





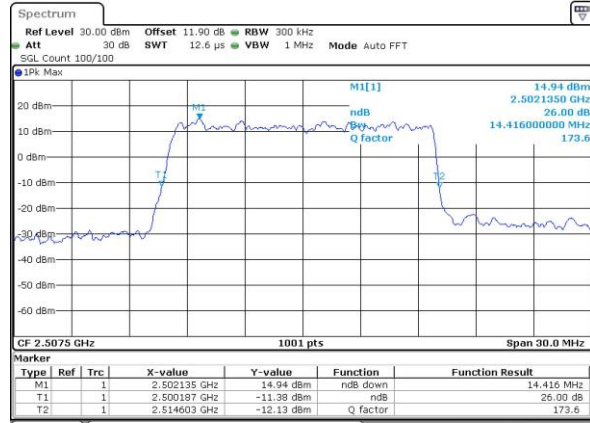
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



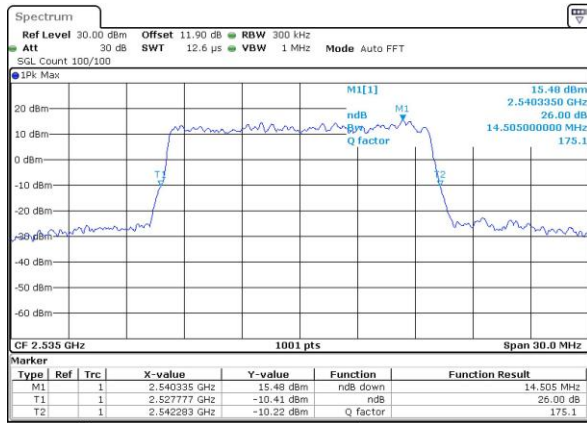
Date: 3,NOV,2016 14:57:50

## Lowest Channel / 15MHz / 16QAM



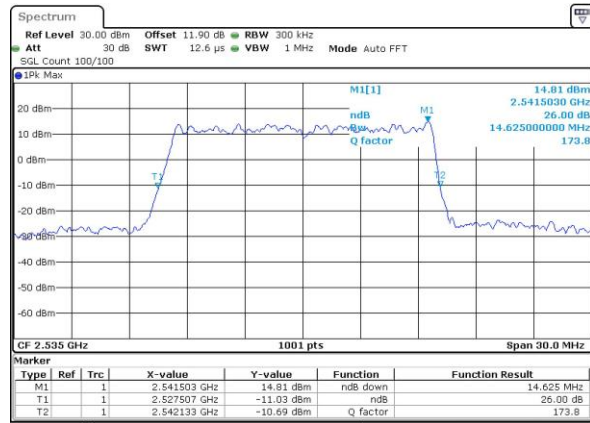
Date: 3,NOV,2016 14:58:02

## Middle Channel / 15MHz / QPSK



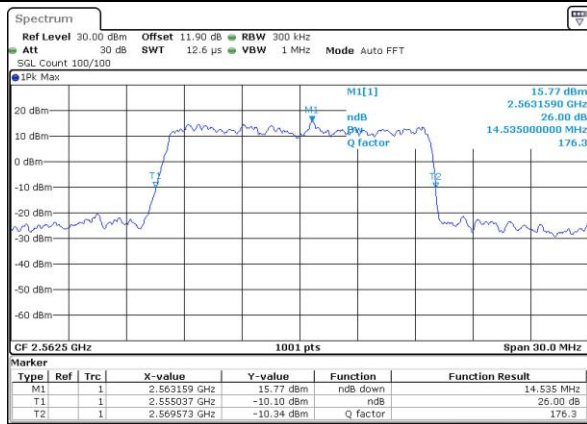
Date: 3,NOV,2016 15:05:13

## Middle Channel / 15MHz / 16QAM



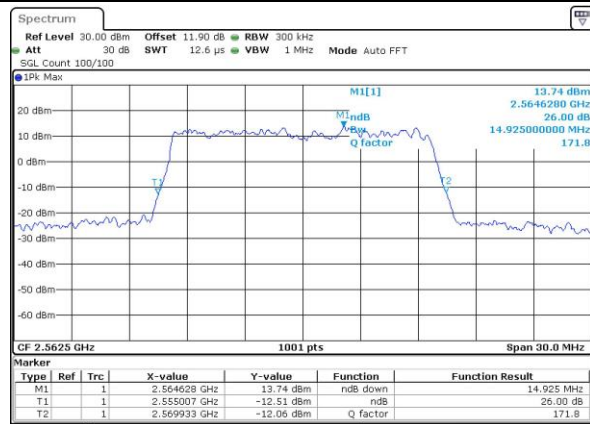
Date: 3,NOV,2016 15:05:25

## Highest Channel / 15MHz / QPSK



Date: 3,NOV,2016 15:07:56

## Highest Channel / 15MHz / 16QAM

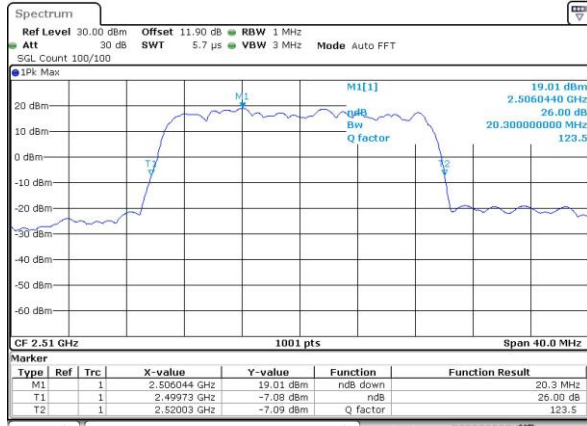


Date: 3,NOV,2016 15:08:08

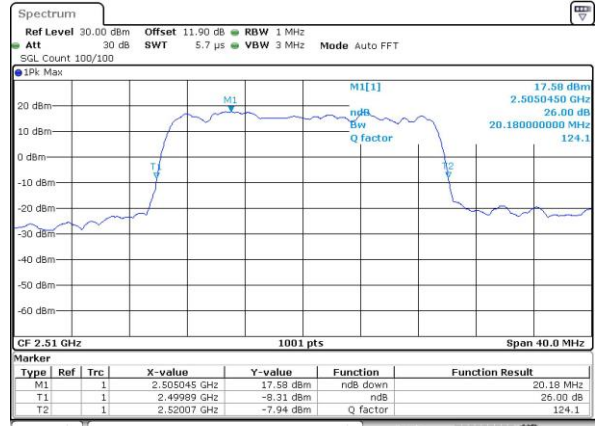


## LTE Band 7

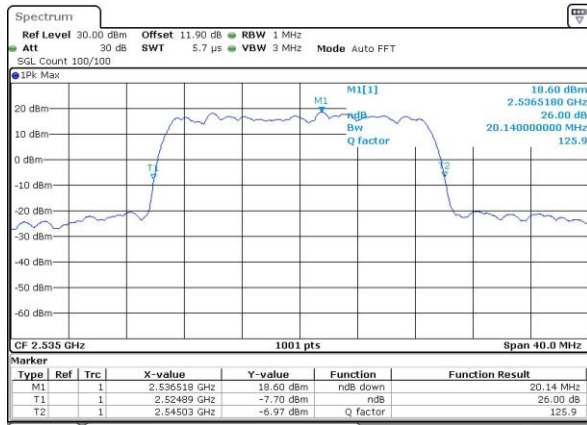
## Lowest Channel / 20MHz / QPSK



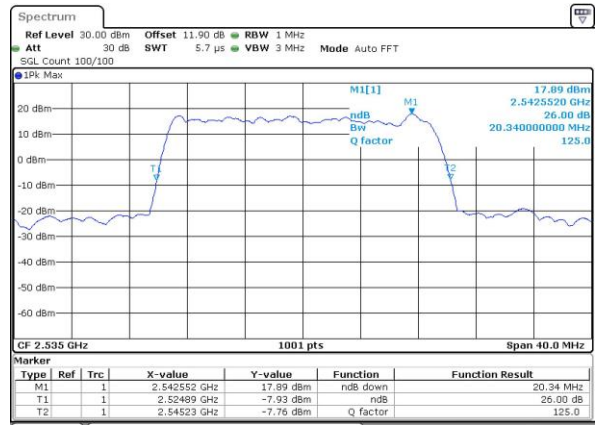
## Lowest Channel / 20MHz / 16QAM



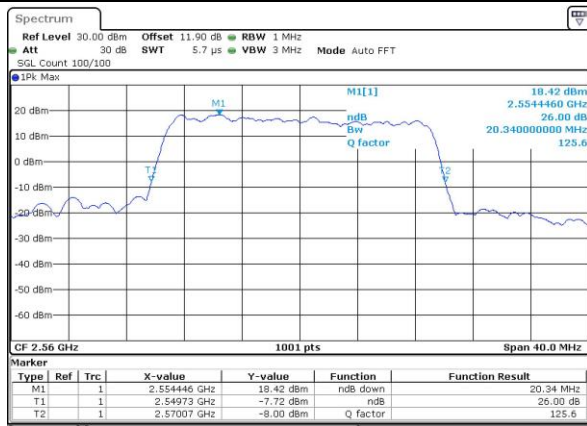
## Middle Channel / 20MHz / QPSK



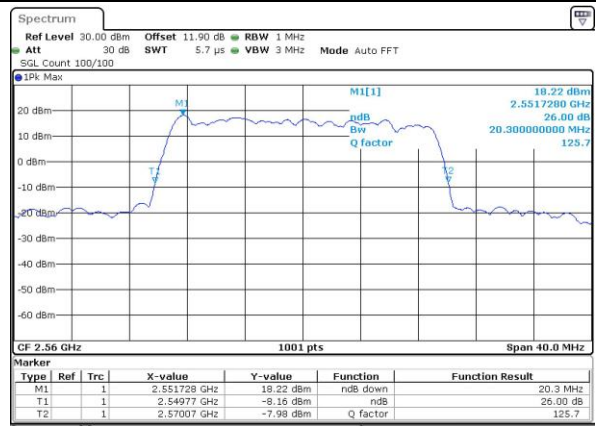
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM





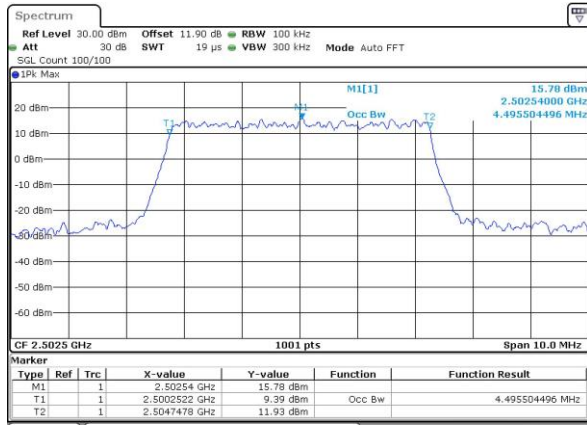
## Occupied Bandwidth

| Mode       | LTE Band 7 : 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  | -                        | -     | -    | -     | 4.5  | 4.51  | 9.09  | 9.05  | 13.49 | 13.43 | 18.46 | 18.3  |
| Middle CH  | -                        | -     | -    | -     | 4.49 | 4.48  | 9.09  | 9.03  | 13.49 | 13.49 | 18.46 | 18.38 |
| Highest CH | -                        | -     | -    | -     | 4.49 | 4.49  | 9.03  | 8.99  | 13.46 | 13.58 | 18.3  | 18.5  |



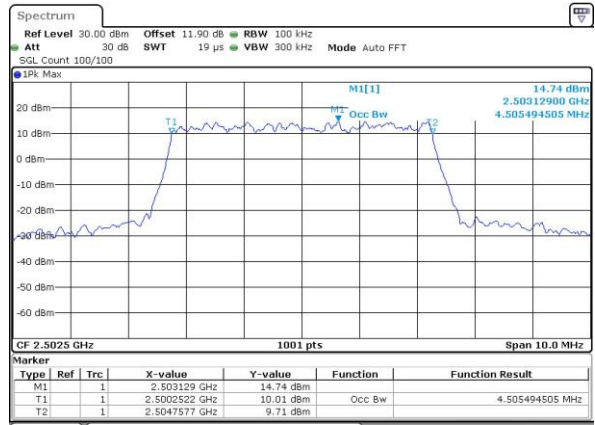
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



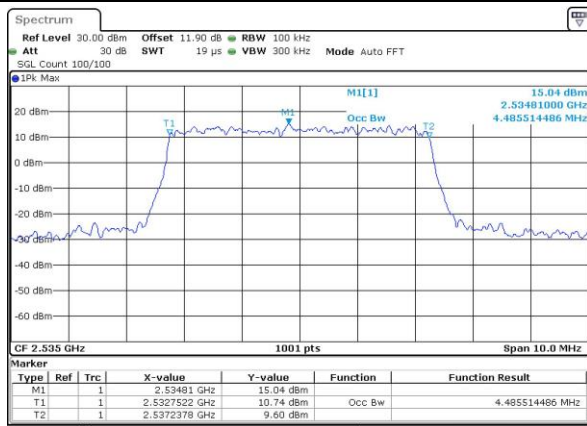
Date: 3,NOV,2016 14:22:29

## Lowest Channel / 5MHz / 16QAM



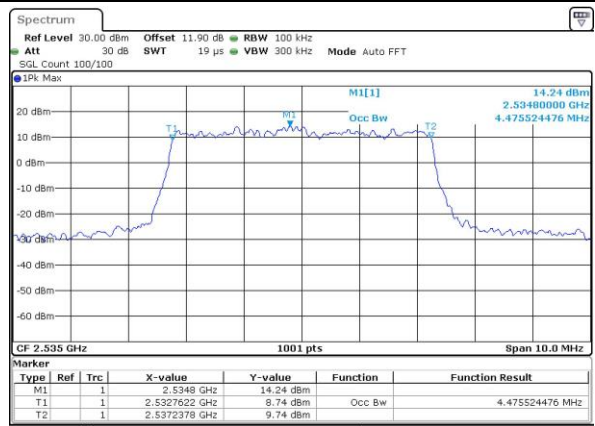
Date: 3,NOV,2016 14:22:41

## Middle Channel / 5MHz / QPSK



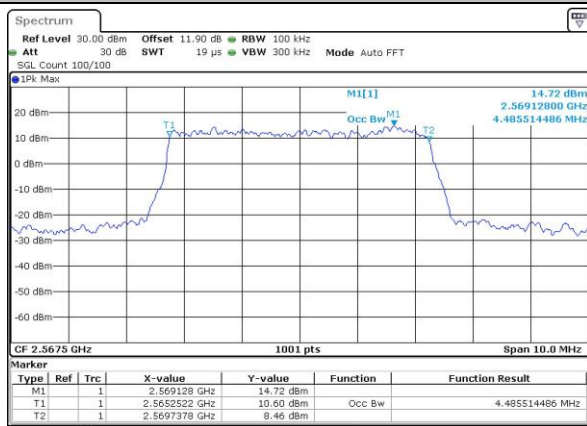
Date: 3,NOV,2016 14:29:51

## Middle Channel / 5MHz / 16QAM



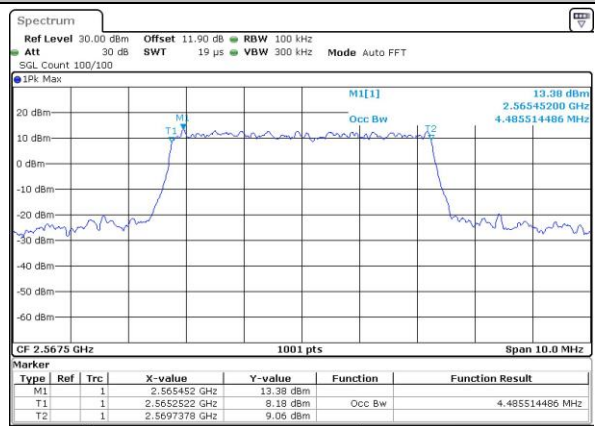
Date: 3,NOV,2016 14:30:03

## Highest Channel / 5MHz / QPSK



Date: 3,NOV,2016 14:32:34

## Highest Channel / 5MHz / 16QAM

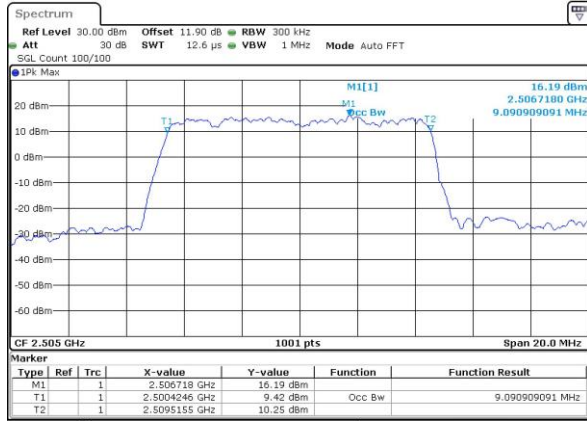


Date: 3,NOV,2016 14:32:46



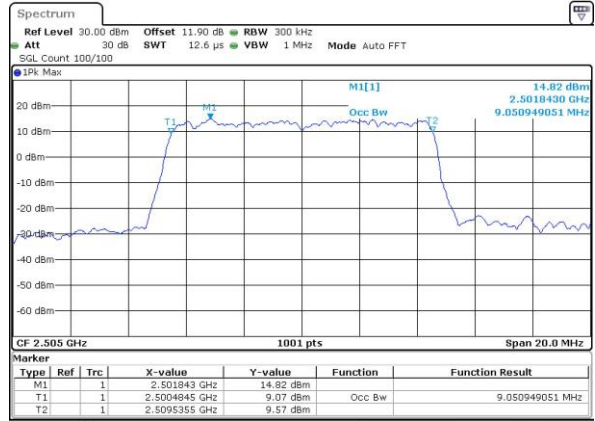
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



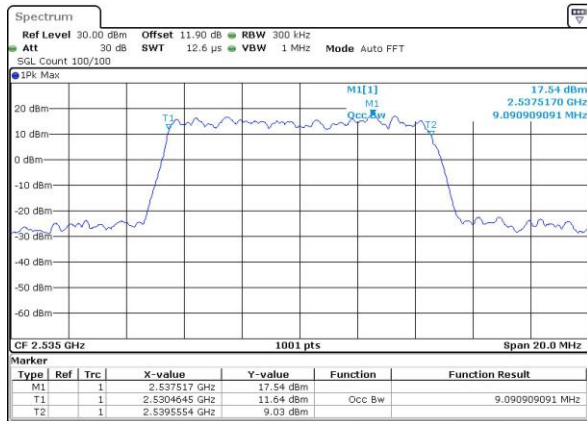
Date: 3,NOV,2016 14:39:58

## Lowest Channel / 10MHz / 16QAM



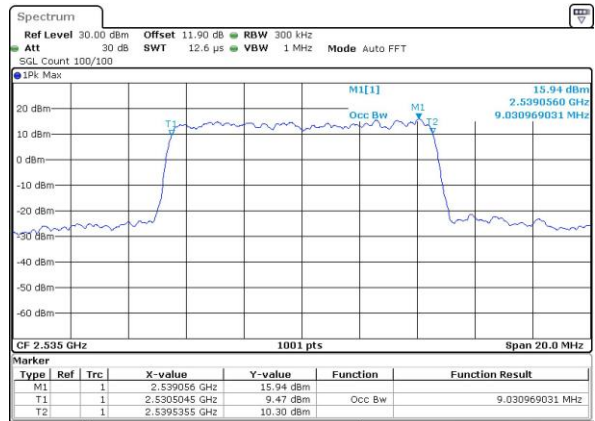
Date: 3,NOV,2016 14:40:09

## Middle Channel / 10MHz / QPSK



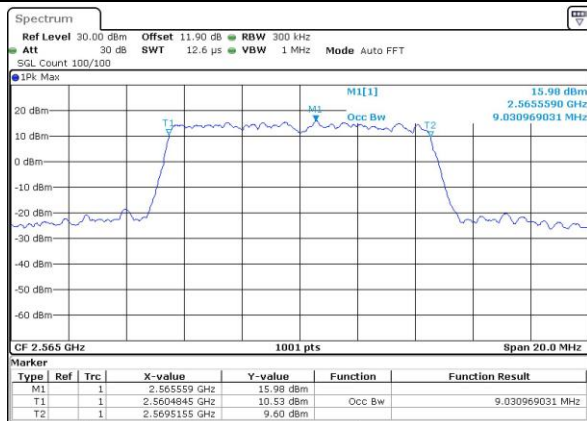
Date: 3,NOV,2016 14:47:21

## Middle Channel / 10MHz / 16QAM



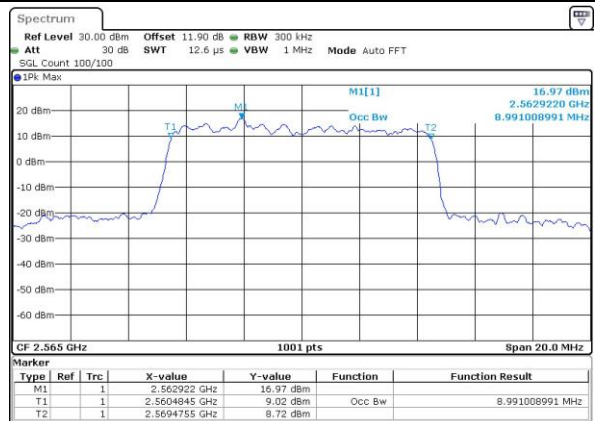
Date: 3,NOV,2016 14:47:32

## Highest Channel / 10MHz / QPSK



Date: 3,NOV,2016 14:50:03

## Highest Channel / 10MHz / 16QAM

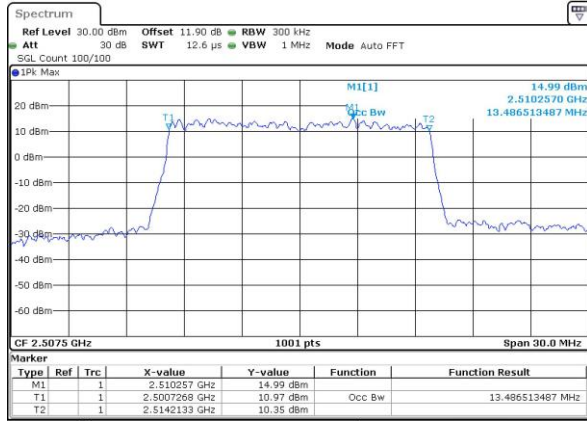


Date: 3,NOV,2016 14:50:15



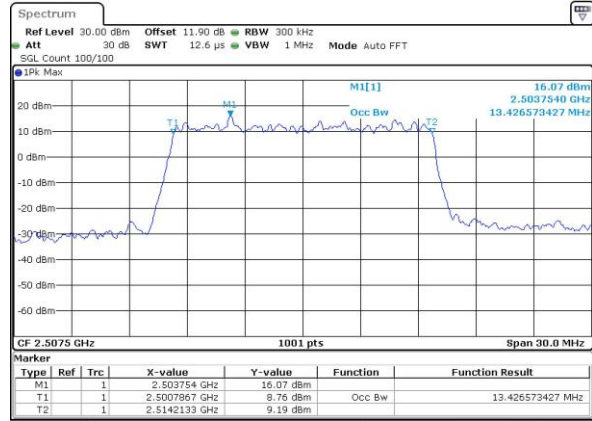
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



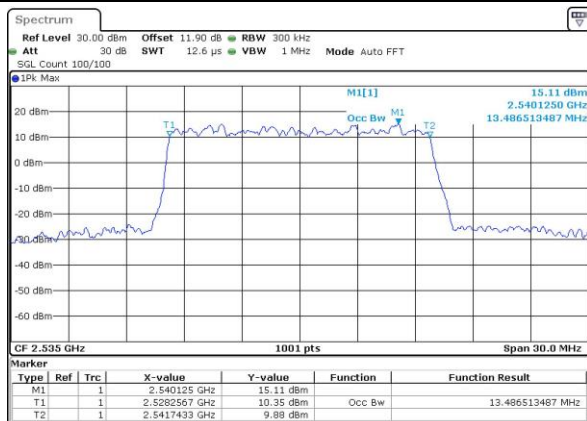
Date: 3,NOV,2016 14:57:27

## Lowest Channel / 15MHz / 16QAM



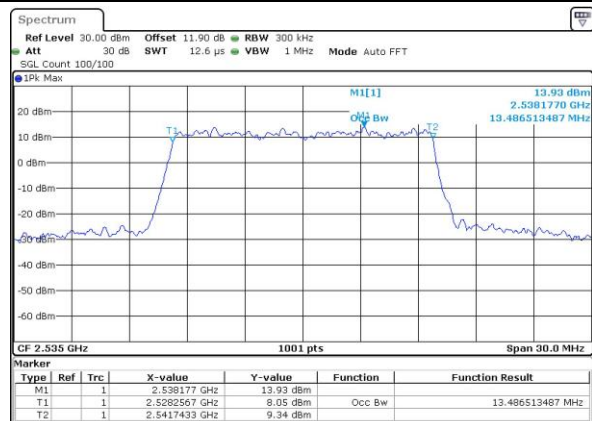
Date: 3,NOV,2016 14:57:39

## Middle Channel / 15MHz / QPSK



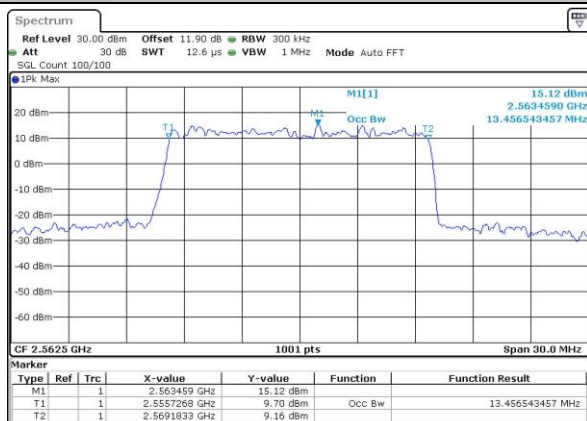
Date: 3,NOV,2016 15:04:50

## Middle Channel / 15MHz / 16QAM



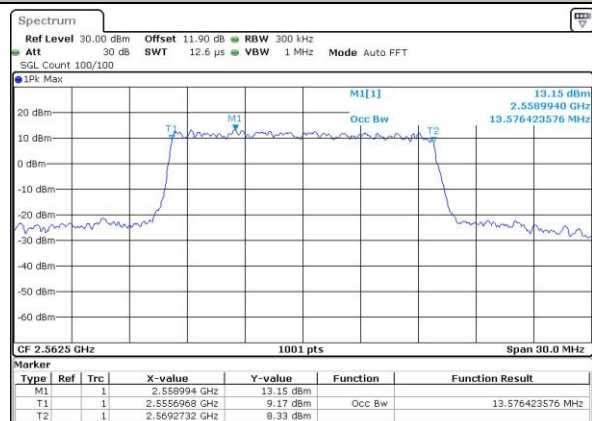
Date: 3,NOV,2016 15:05:01

## Highest Channel / 15MHz / QPSK



Date: 3,NOV,2016 15:07:33

## Highest Channel / 15MHz / 16QAM



Date: 3,NOV,2016 15:07:44