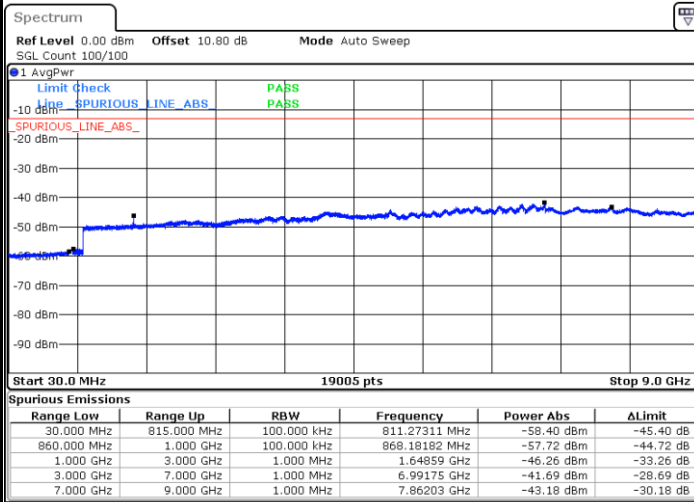




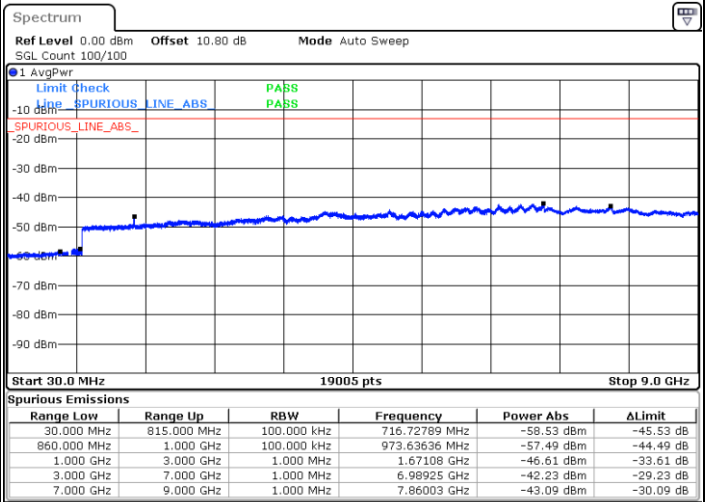
## LTE Band 5 / 3MHz

## Lowest Channel / 64QAM



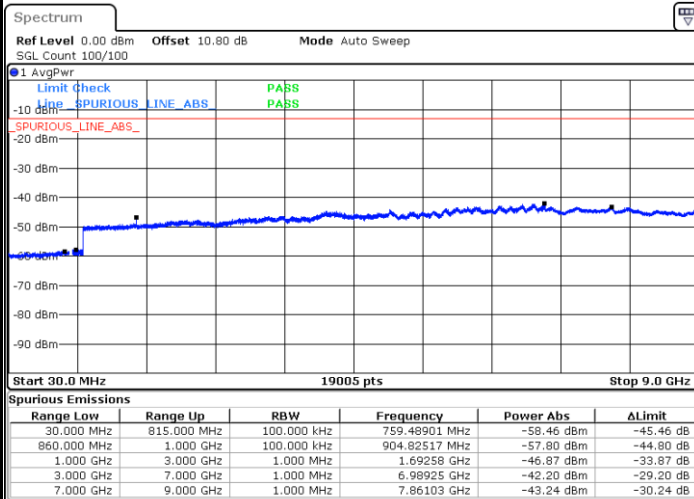
Date: 6 OCT.2017 20:49:39

## Middle Channel / 64QAM



Date: 6 OCT.2017 20:50:52

## Highest Channel / 64QAM

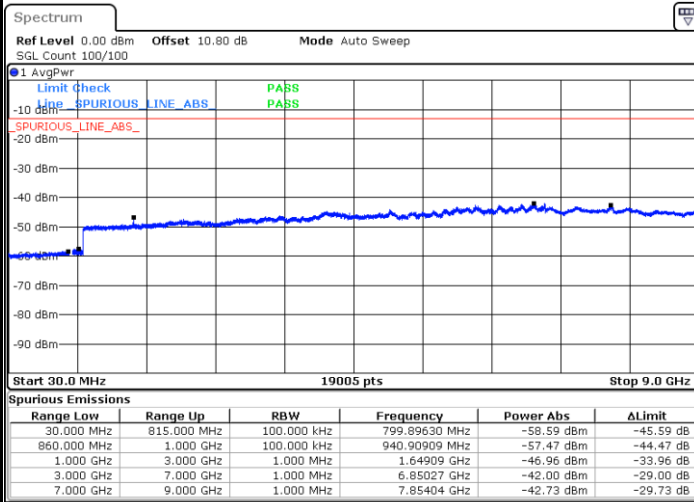


Date: 6 OCT.2017 20:55:23



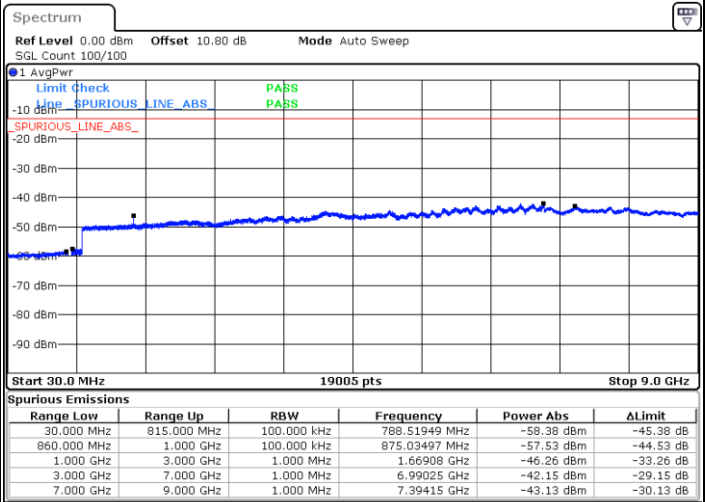
## LTE Band 5 / 5MHz

## Lowest Channel / 64QAM



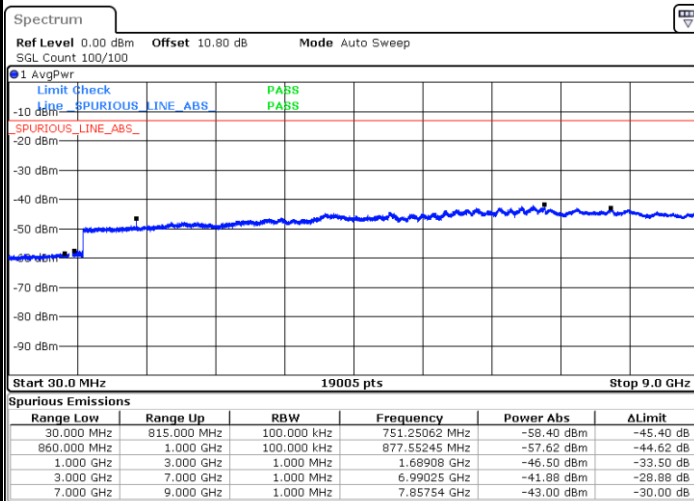
Date: 6.OCT.2017 20:59:55

## Middle Channel / 64QAM



Date: 6.OCT.2017 21:01:08

## Highest Channel / 64QAM

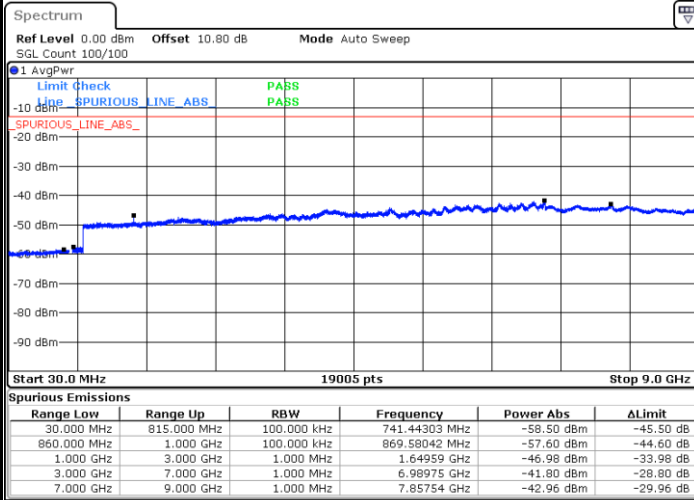


Date: 6.OCT.2017 21:05:39



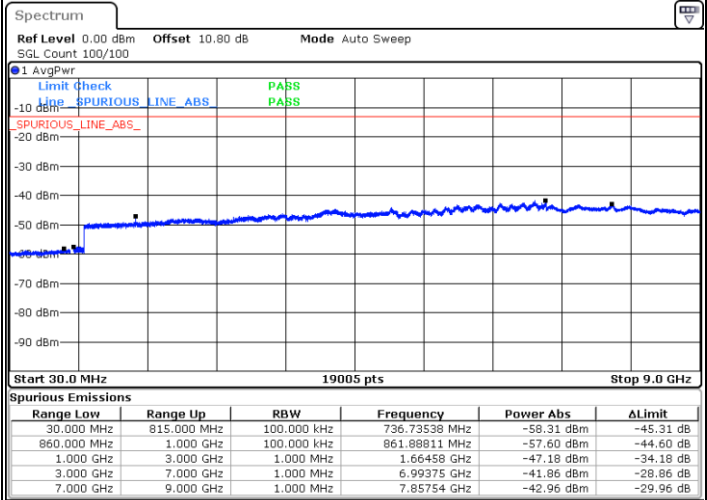
## LTE Band 5 / 10MHz

## Lowest Channel / 64QAM



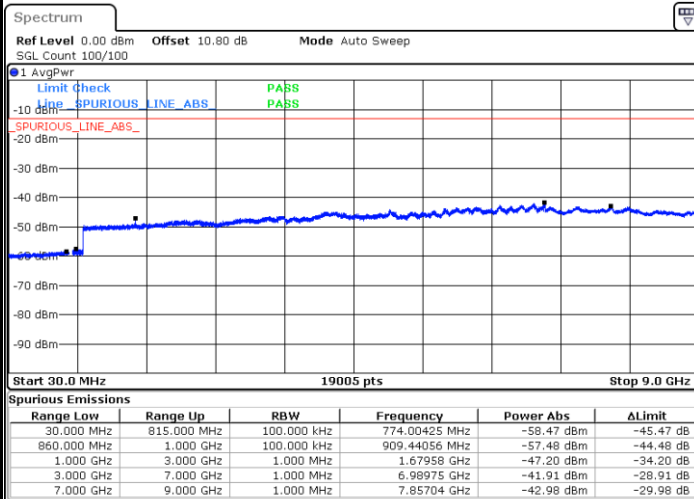
Date: 6.OCT.2017 21:10:11

## Middle Channel / 64QAM



Date: 6.OCT.2017 21:11:24

## Highest Channel / 64QAM



Date: 6.OCT.2017 21:15:56

## 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    | 0.0071                             | PASS   |
| 40               | Normal Voltage    | 0.0019                             |        |
| 30               | Normal Voltage    | 0.0085                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0072                             |        |
| 0                | Normal Voltage    | 0.0007                             |        |
| -10              | Normal Voltage    | 0.0016                             |        |
| -20              | Normal Voltage    | 0.0031                             |        |
| -30              | Normal Voltage    | 0.0026                             |        |
| 20               | Maximum Voltage   | 0.0079                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0006                             |        |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## LTE Band 7

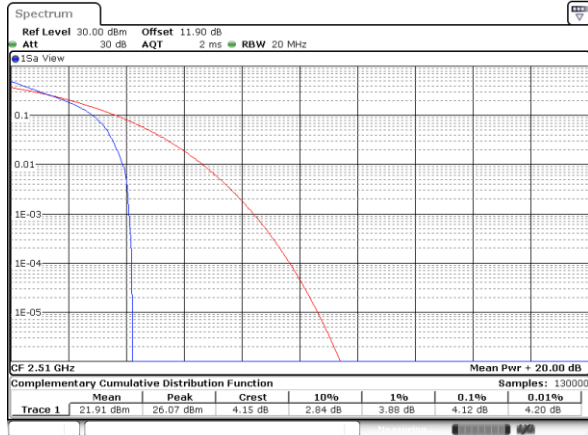
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.12               | 4.9     | 4.84  | 6       | PASS        |
| Middle CH  | 4.38               | 4.99    | 5.39  | 6.14    |             |
| Highest CH | 4.26               | 4.67    | 5.07  | 5.8     |             |
| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
| Mod.       | 64QAM              |         |       |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB |       |         | Result      |
| Lowest CH  | 5.77               | 6.43    | -     | -       | PASS        |
| Middle CH  | 6.26               | 6.35    | -     | -       |             |
| Highest CH | 5.8                | 6.2     | -     | -       |             |

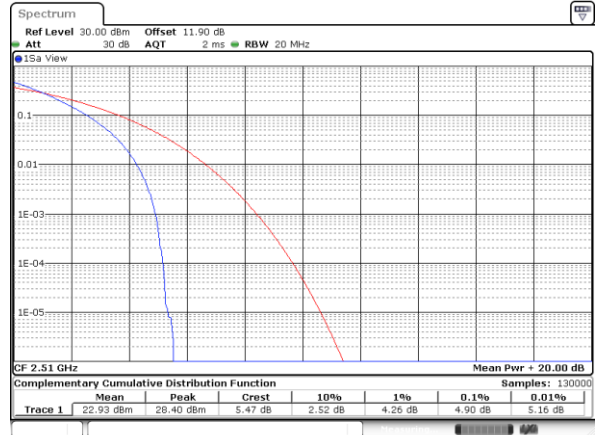


## LTE Band 7 / 20MHz / QPSK

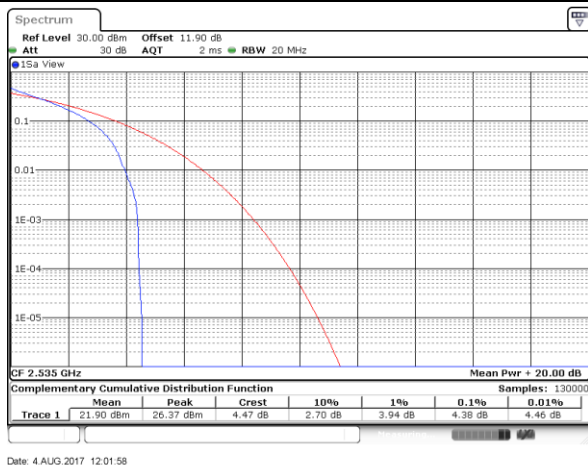
## Lowest Channel / 1RB



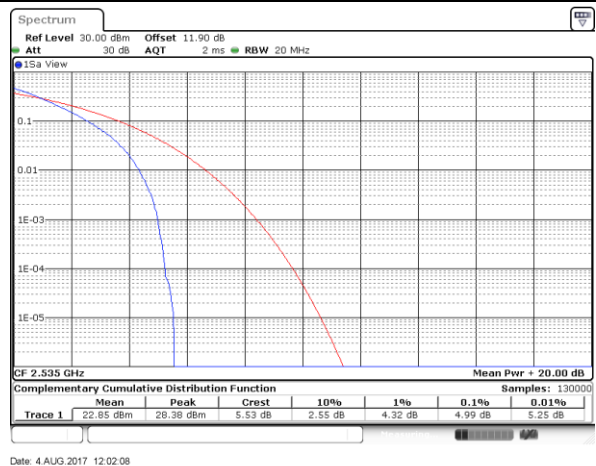
## Lowest Channel / Full RB



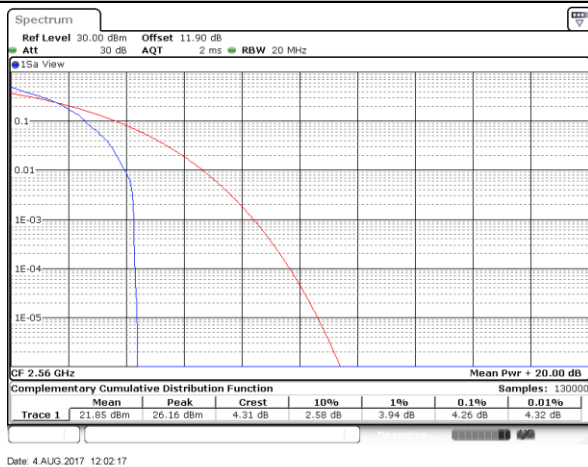
## Middle Channel / 1RB



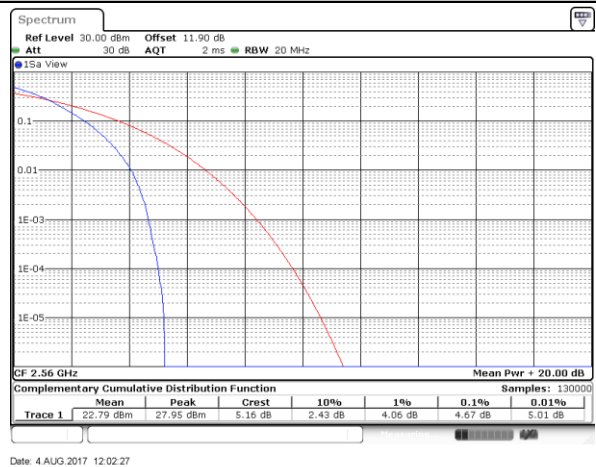
## Middle Channel / Full RB

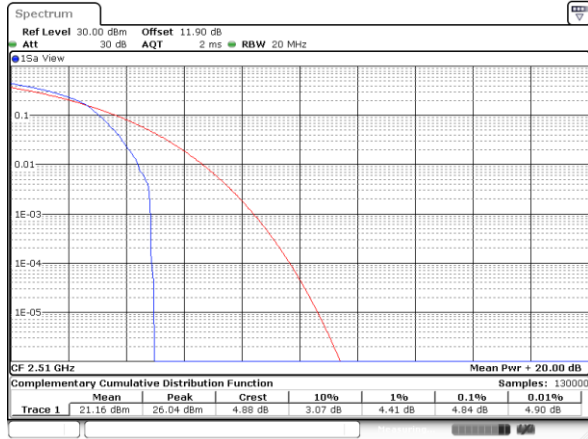


## Highest Channel / 1RB

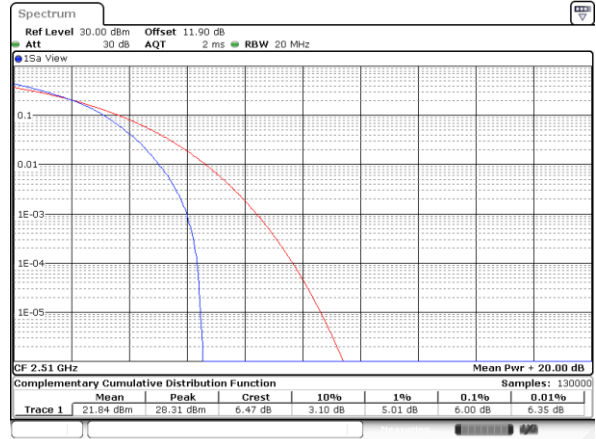


## Highest Channel / Full RB

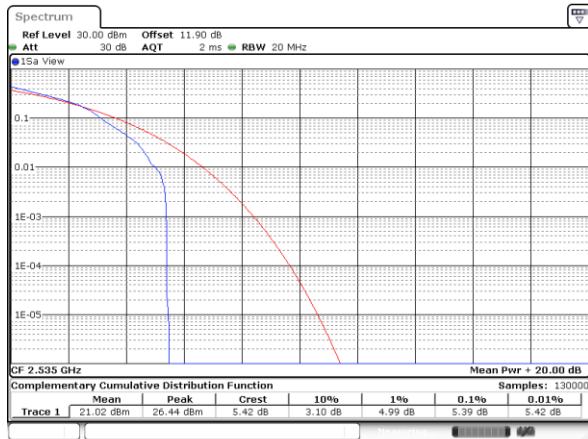


**LTE Band 7 / 20MHz / 16QAM**
**Lowest Channel / 1RB**


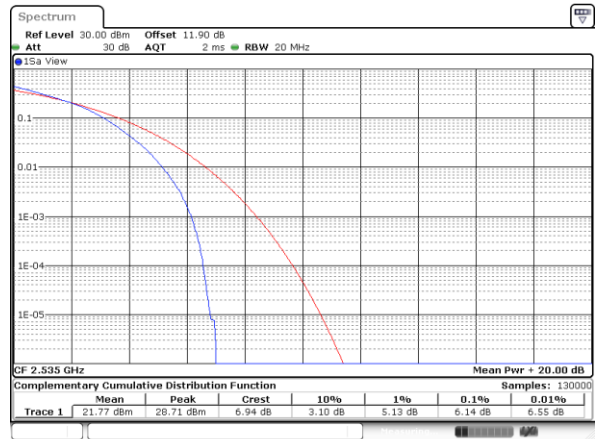
Date: 4 AUG 2017 11:53:40

**Lowest Channel / Full RB**


Date: 4 AUG 2017 11:53:50

**Middle Channel / 1RB**


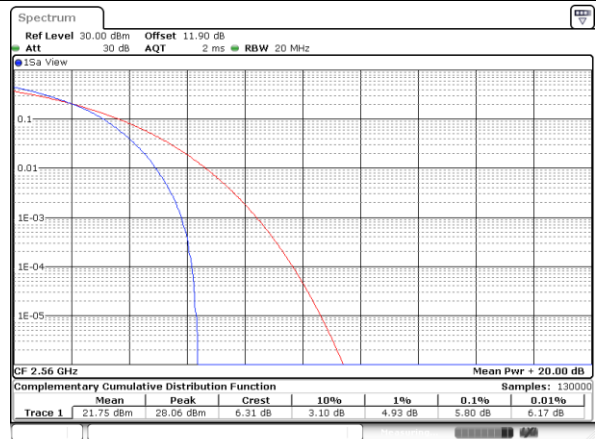
Date: 4 AUG 2017 11:55:23

**Middle Channel / Full RB**


Date: 4 AUG 2017 12:00:10

**Highest Channel / 1RB**


Date: 4 AUG 2017 12:00:58

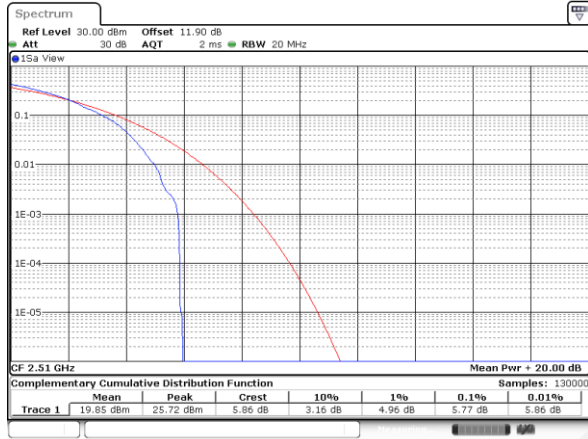
**Highest Channel / Full RB**


Date: 4 AUG 2017 12:01:16

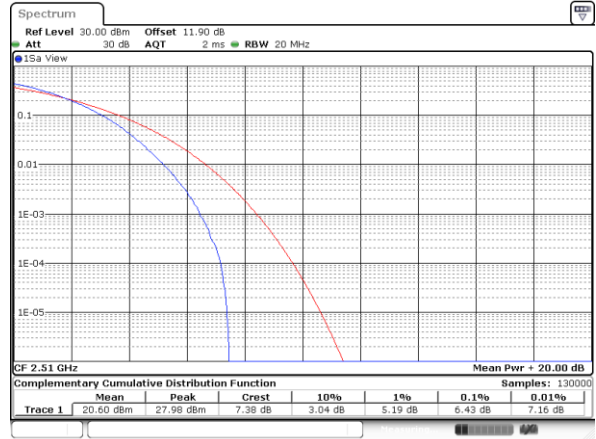


## LTE Band 7 / 20MHz / 64QAM

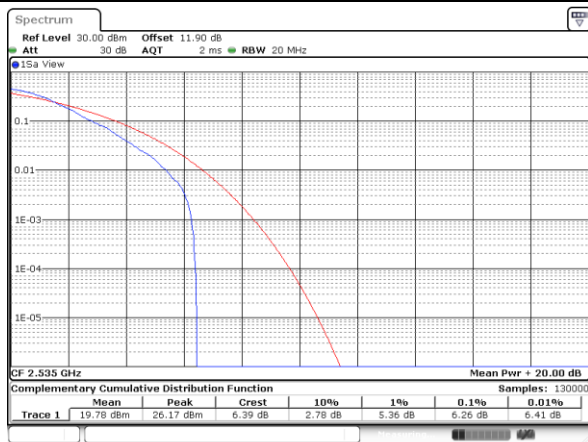
## Lowest Channel / 1RB



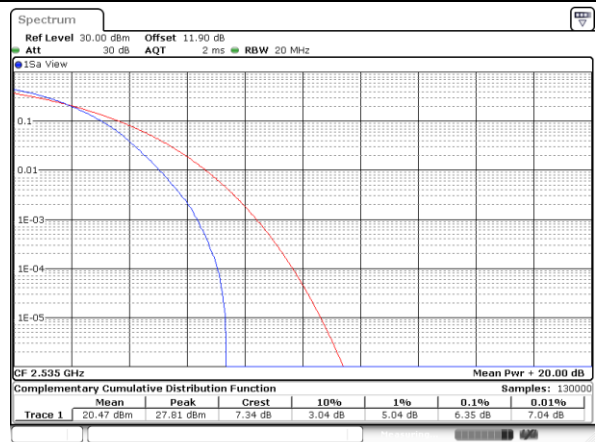
## Lowest Channel / Full RB



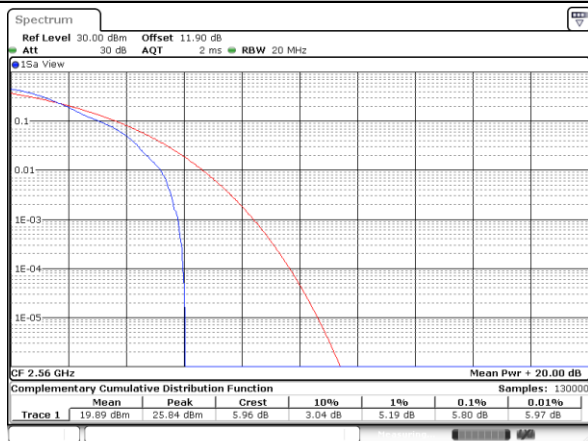
## Middle Channel / 1RB



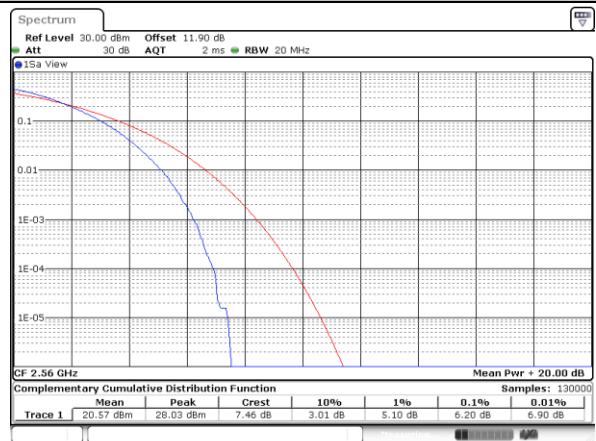
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



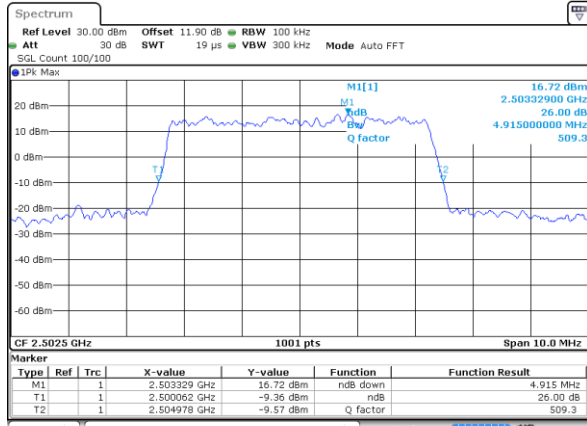
**26dB Bandwidth**

| 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  | -                         | -     | -     | -     | 4.92  | 4.90  | 9.81  | 9.75  | 14.33 | 14.36 | 20.02 | 20.02 |
| Middle CH  | -                         | -     | -     | -     | 4.93  | 4.91  | 9.83  | 9.77  | 14.27 | 14.24 | 20.18 | 20.14 |
| Highest CH | -                         | -     | -     | -     | 4.87  | 4.86  | 9.79  | 9.69  | 14.24 | 14.18 | 20.14 | 20.30 |
| Mode       | LTE Band 7 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                         | -     | -     | -     | 4.87  | -     | 9.85  | -     | 14.57 | -     | 20.14 | -     |
| Middle CH  | -                         | -     | -     | -     | 4.92  | -     | 9.61  | -     | 14.3  | -     | 20.06 | -     |
| Highest CH | -                         | -     | -     | -     | 4.82  | -     | 9.87  | -     | 14.18 | -     | 20.1  | -     |



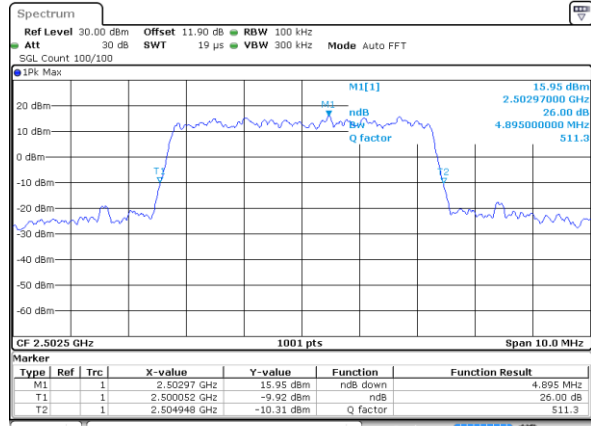
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



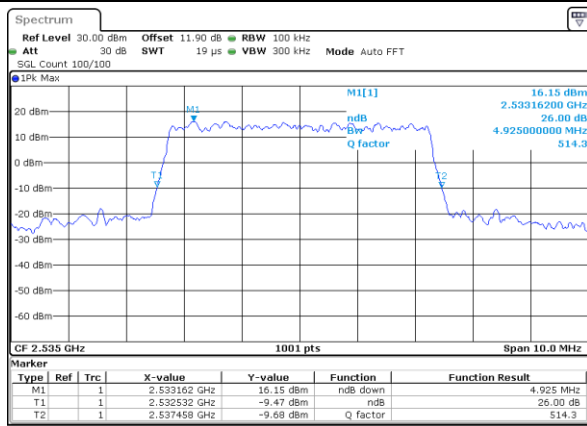
Date: 4 AUG 2017 10:39:43

## Lowest Channel / 5MHz / 16QAM



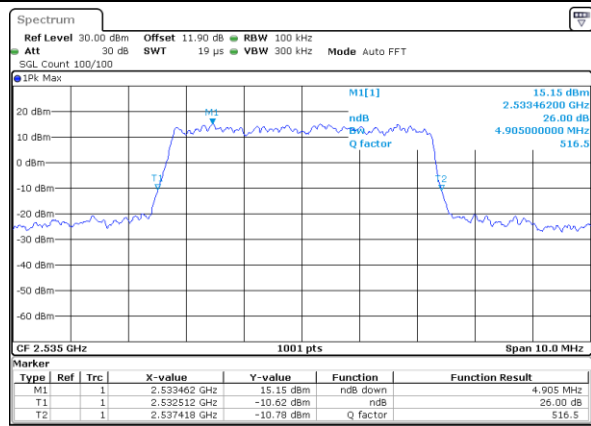
Date: 4 AUG 2017 10:39:53

## Middle Channel / 5MHz / QPSK



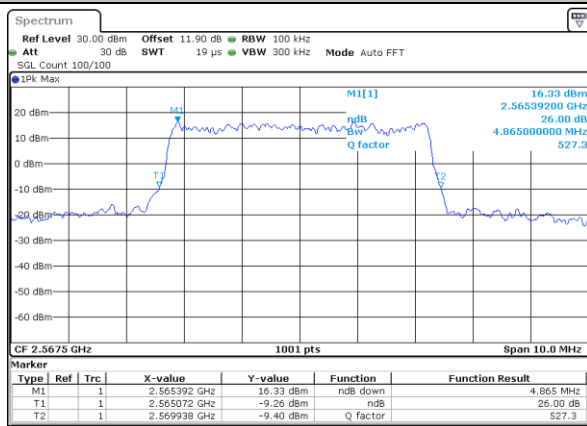
Date: 4 AUG 2017 10:46:46

## Middle Channel / 5MHz / 16QAM



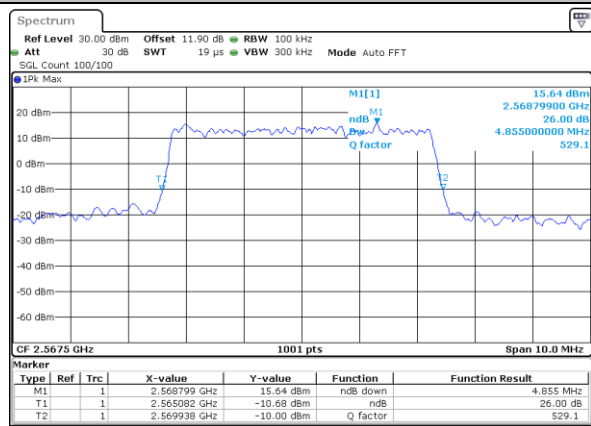
Date: 4 AUG 2017 10:46:56

## Highest Channel / 5MHz / QPSK



Date: 4 AUG 2017 10:49:13

## Highest Channel / 5MHz / 16QAM

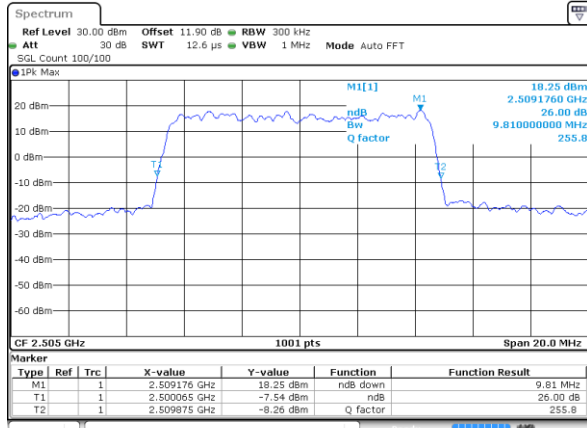


Date: 4 AUG 2017 10:49:23

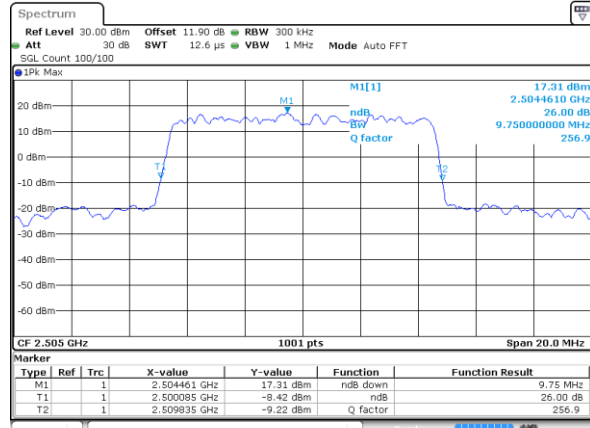


## LTE Band 7

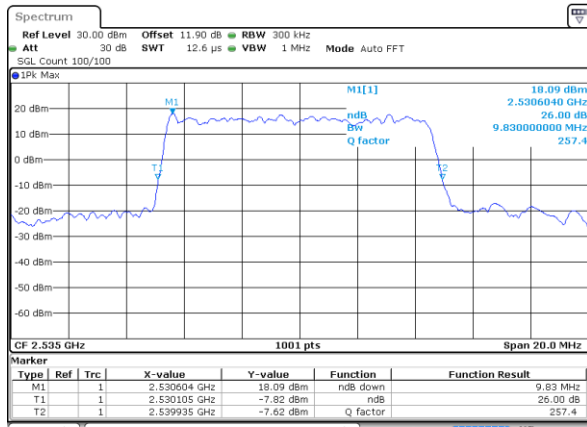
## Lowest Channel / 10MHz / QPSK



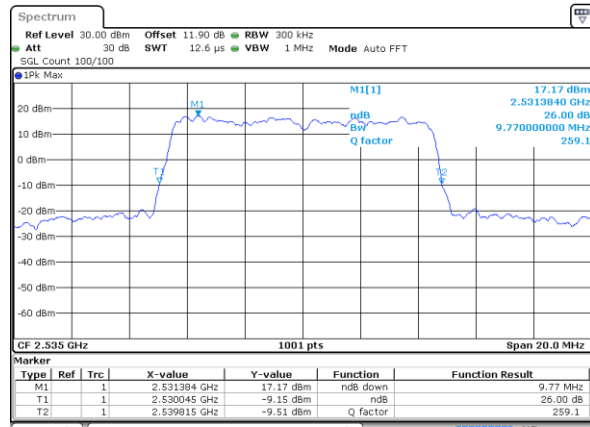
## Lowest Channel / 10MHz / 16QAM



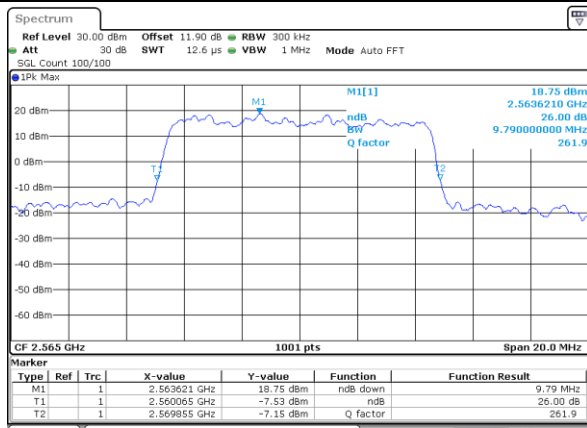
## Middle Channel / 10MHz / QPSK



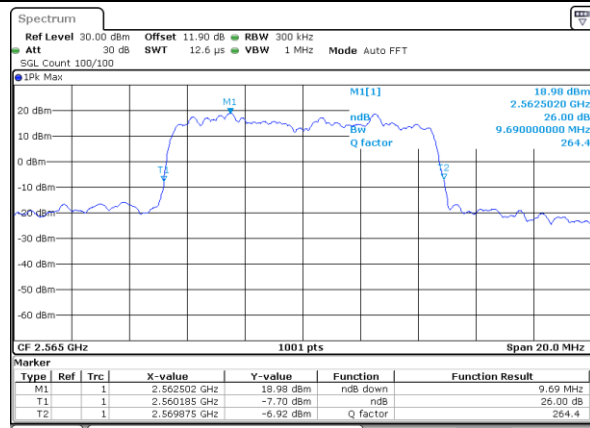
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



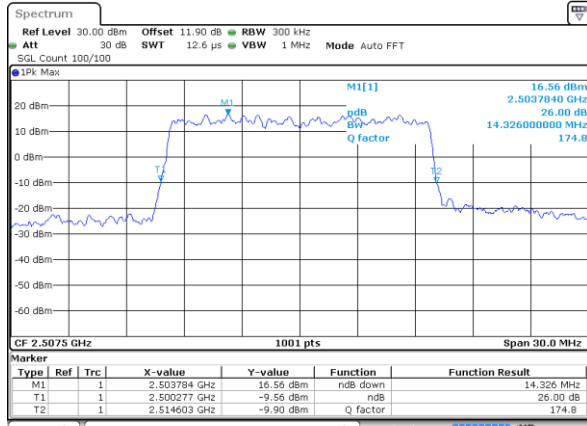
## Highest Channel / 10MHz / 16QAM





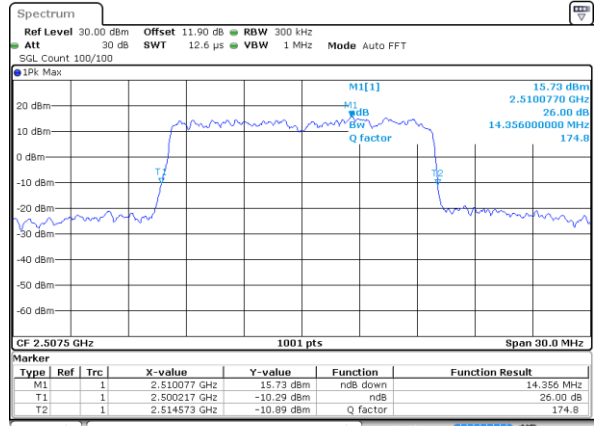
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



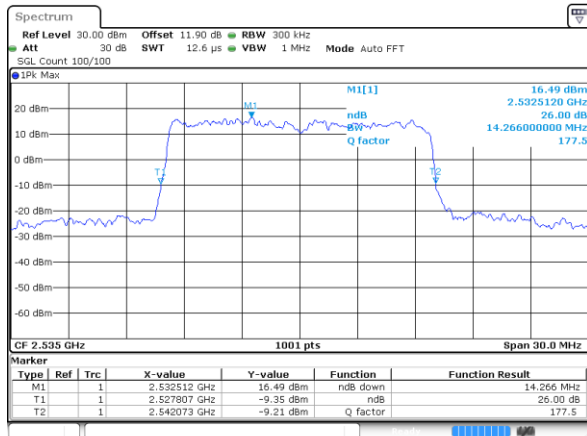
Date: 4 AUG 2017 11:12:50

## Lowest Channel / 15MHz / 16QAM



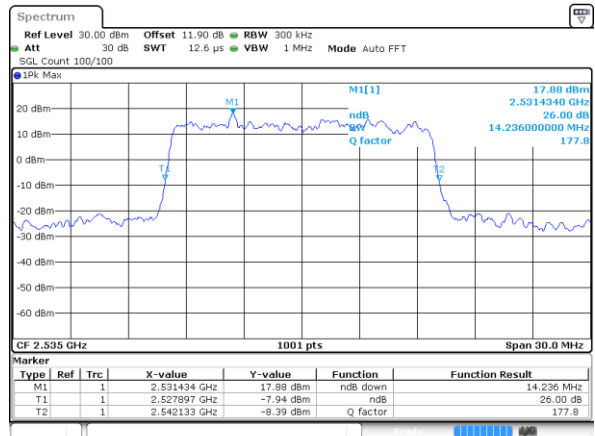
Date: 4 AUG 2017 11:13:00

## Middle Channel / 15MHz / QPSK



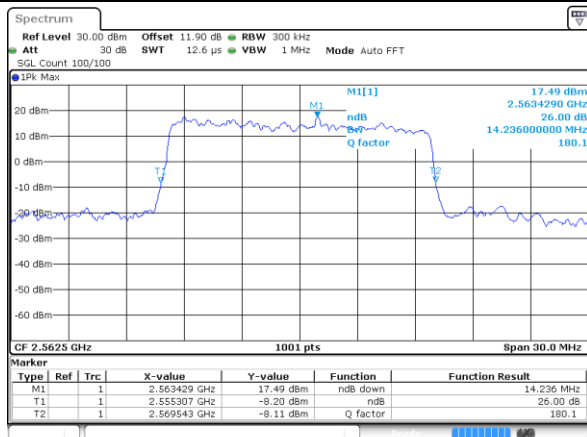
Date: 4 AUG 2017 11:19:54

## Middle Channel / 15MHz / 16QAM



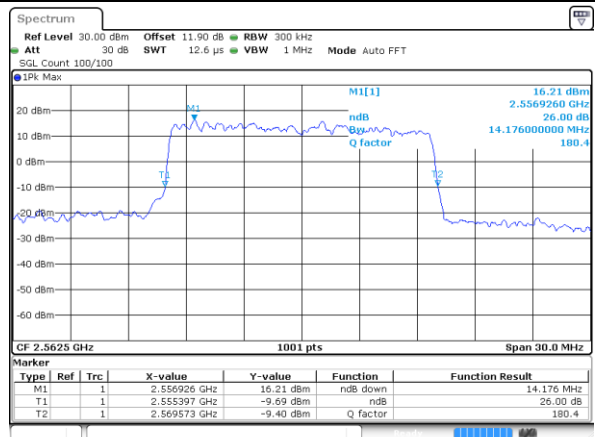
Date: 4 AUG 2017 11:20:04

## Highest Channel / 15MHz / QPSK



Date: 4 AUG 2017 11:22:20

## Highest Channel / 15MHz / 16QAM

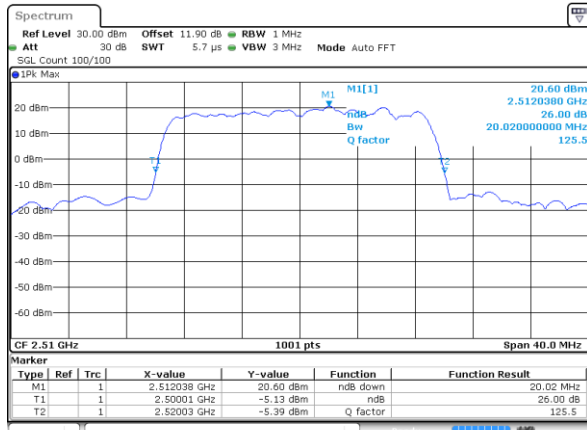


Date: 4 AUG 2017 11:22:30

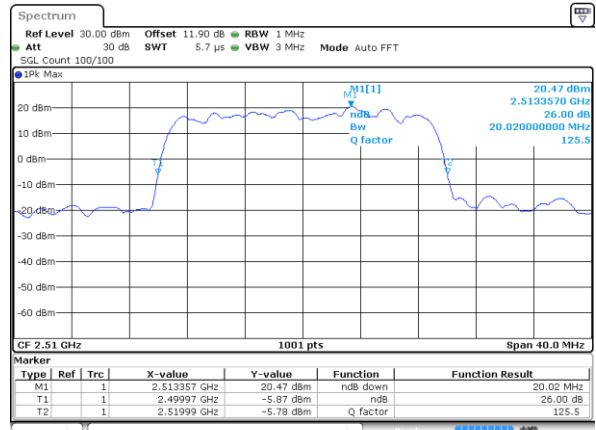


## LTE Band 7

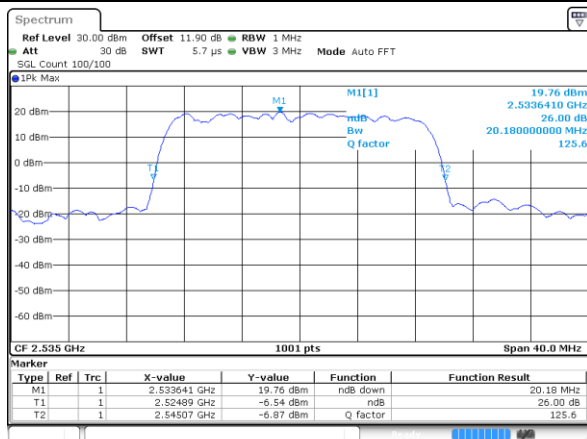
## Lowest Channel / 20MHz / QPSK



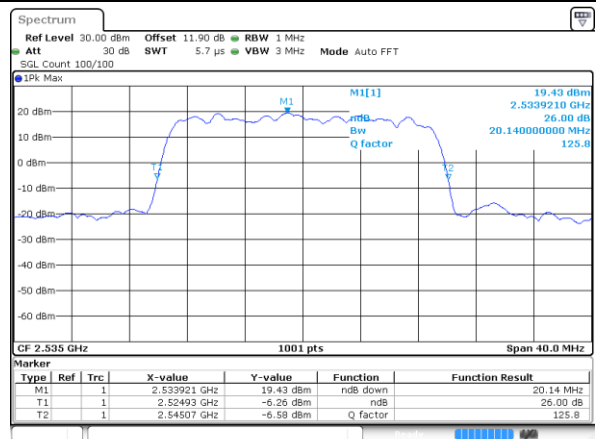
## Lowest Channel / 20MHz / 16QAM



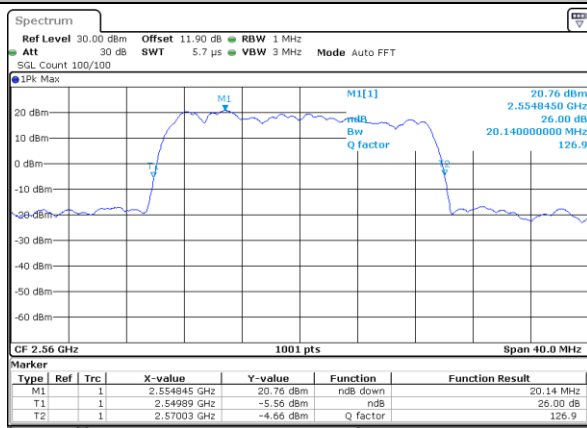
## Middle Channel / 20MHz / QPSK



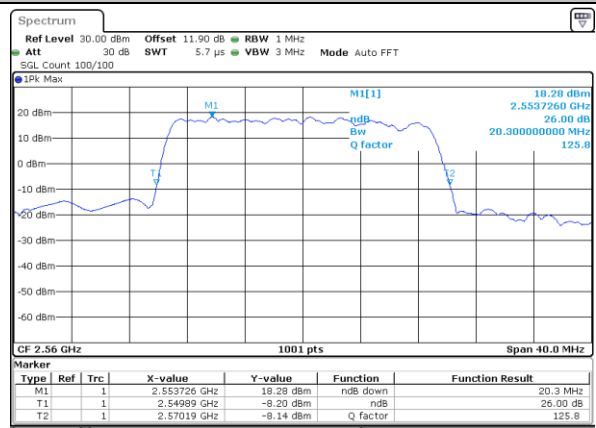
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



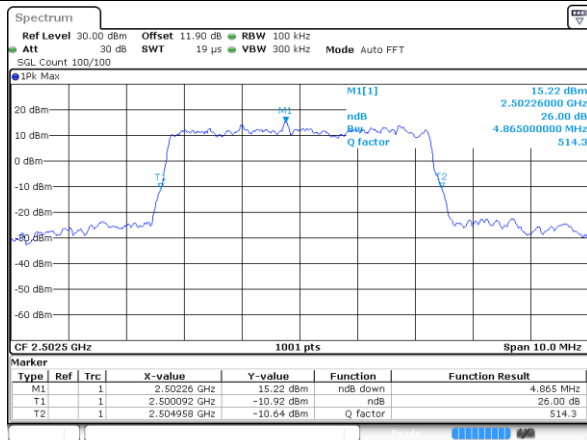
## Highest Channel / 20MHz / 16QAM





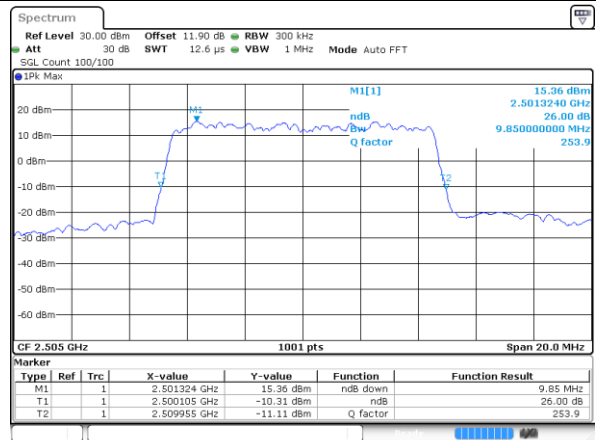
## LTE Band 7

## Lowest Channel / 5MHz / 64QAM



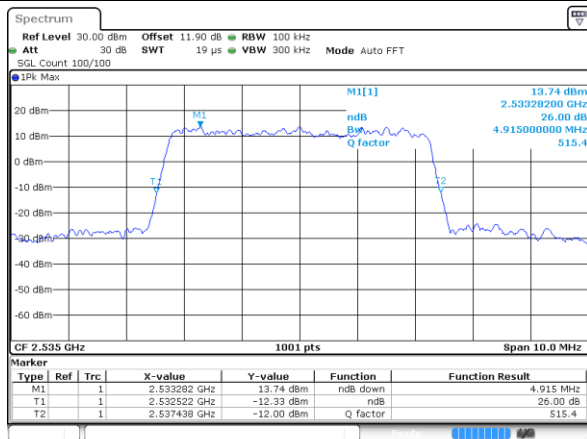
Date: 11.OCT.2017 13:22:45

## Lowest Channel / 10MHz / 64QAM



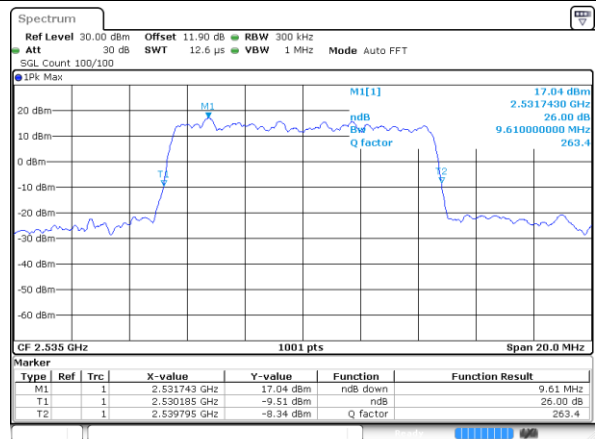
Date: 11.OCT.2017 13:31:02

## Middle Channel / 5MHz / 64QAM



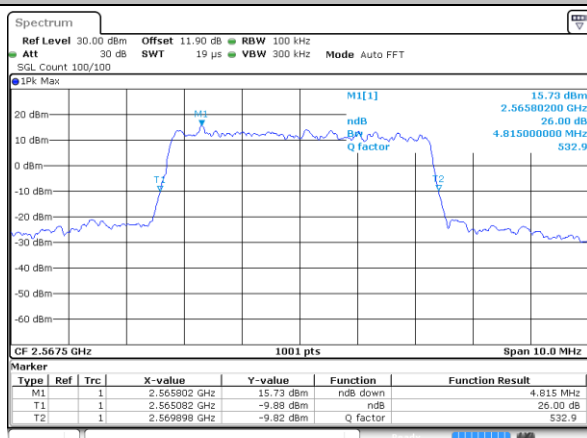
Date: 11.OCT.2017 13:26:17

## Middle Channel / 10MHz / 64QAM



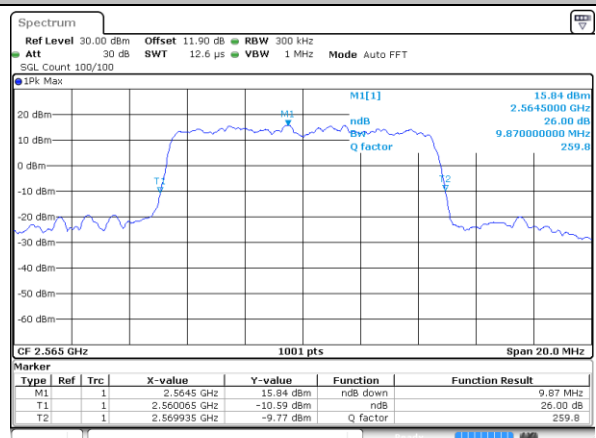
Date: 11.OCT.2017 13:34:33

## Highest Channel / 5MHz / 64QAM



Date: 11.OCT.2017 13:27:30

## Highest Channel / 10MHz / 64QAM

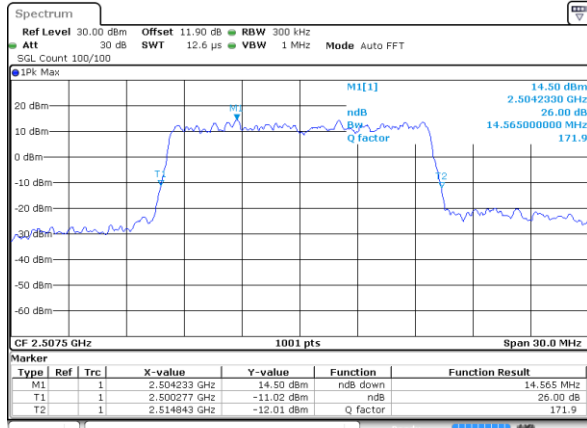


Date: 11.OCT.2017 13:35:47



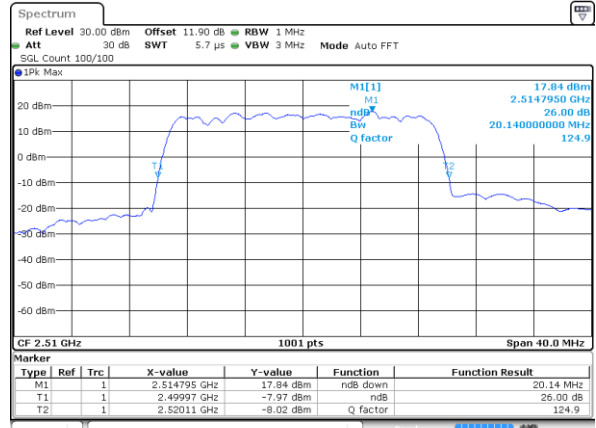
## LTE Band 7

## Lowest Channel / 15MHz / 64QAM



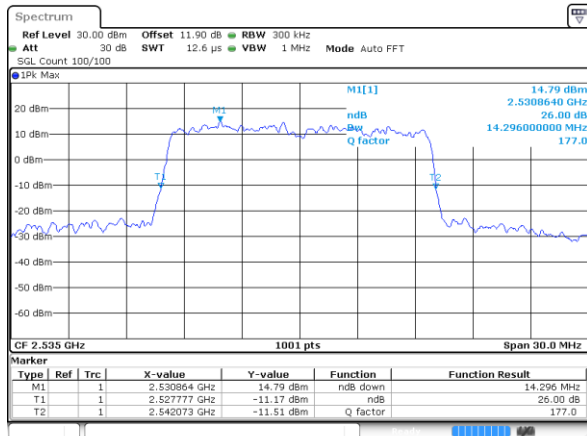
Date: 11.OCT.2017 13:39:19

## Lowest Channel / 20MHz / 64QAM



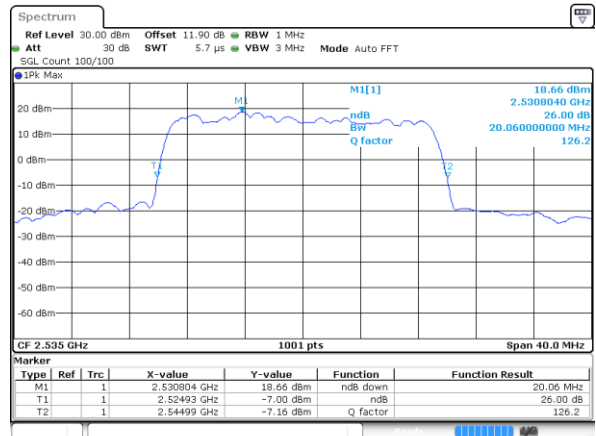
Date: 11.OCT.2017 13:47:35

## Middle Channel / 15MHz / 64QAM



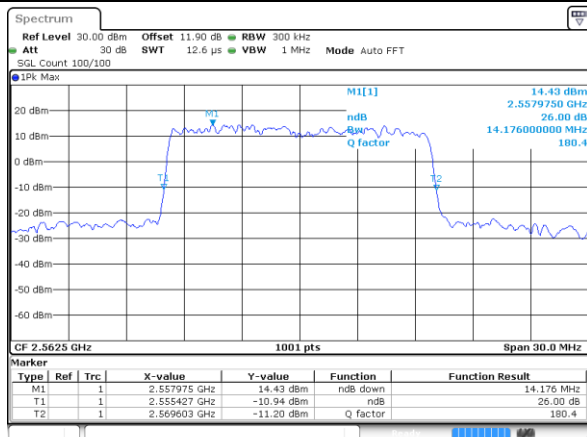
Date: 11.OCT.2017 13:42:50

## Middle Channel / 20MHz / 64QAM



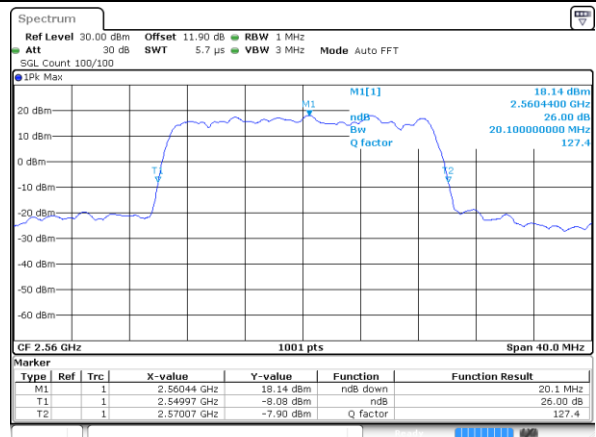
Date: 11.OCT.2017 13:51:07

## Highest Channel / 15MHz / 64QAM



Date: 11.OCT.2017 13:44:03

## Highest Channel / 20MHz / 64QAM



Date: 11.OCT.2017 13:52:20

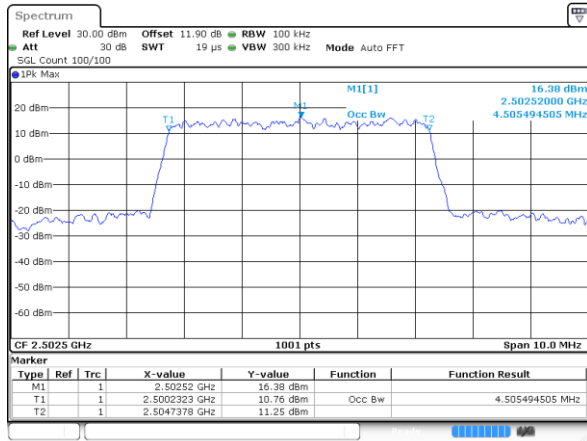
**Occupied Bandwidth**

| 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  | -                        | -     | -     | -     | 4.51  | 4.52  | 9.01  | 9.05  | 13.43 | 13.49 | 18.26 | 18.38 |
| Middle CH  | -                        | -     | -     | -     | 4.5   | 4.5   | 9.03  | 9.01  | 13.55 | 13.49 | 18.3  | 18.38 |
| Highest CH | -                        | -     | -     | -     | 4.5   | 4.49  | 9.01  | 9.01  | 13.43 | 13.43 | 18.3  | 18.34 |
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                    |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                        | -     | -     | -     | 4.51  | -     | 9.05  | -     | 13.43 | -     | 18.42 | -     |
| Middle CH  | -                        | -     | -     | -     | 4.5   | -     | 9.03  | -     | 13.37 | -     | 18.34 | -     |
| Highest CH | -                        | -     | -     | -     | 4.49  | -     | 8.99  | -     | 13.46 | -     | 18.3  | -     |

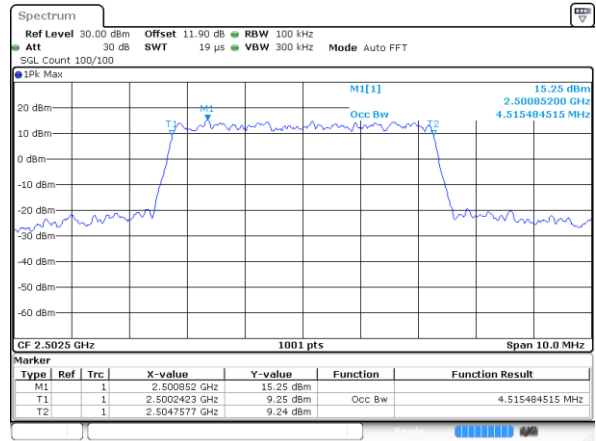


## LTE Band 7

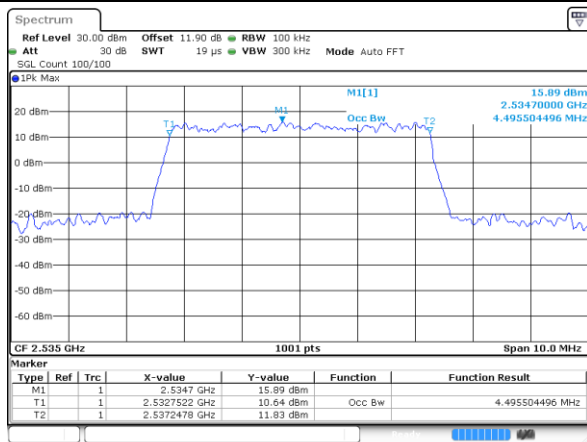
## Lowest Channel / 5MHz / QPSK



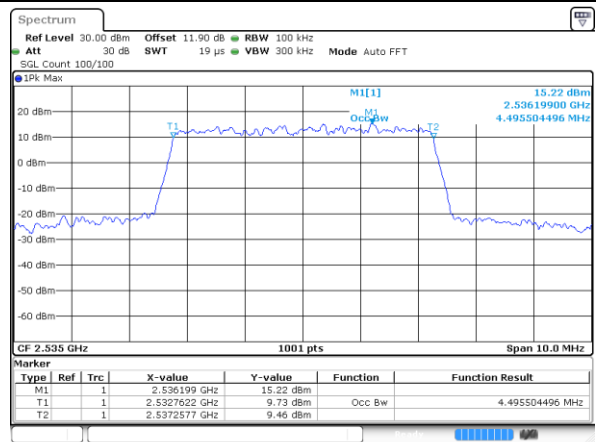
## Lowest Channel / 5MHz / 16QAM



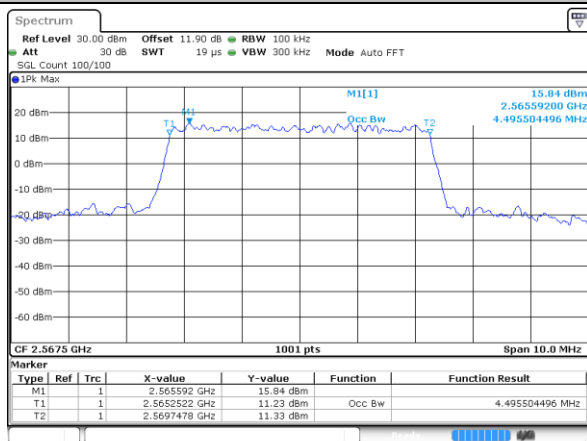
## Middle Channel / 5MHz / QPSK



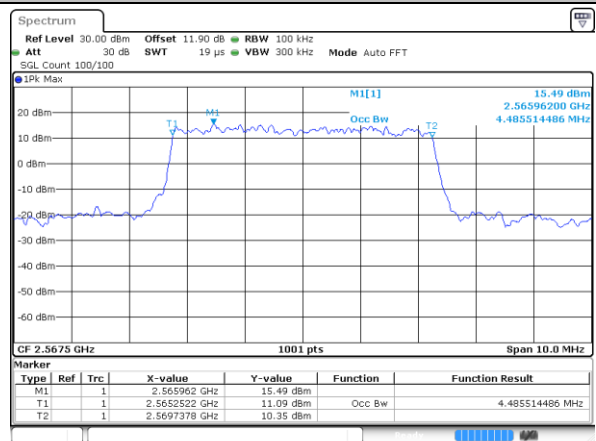
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



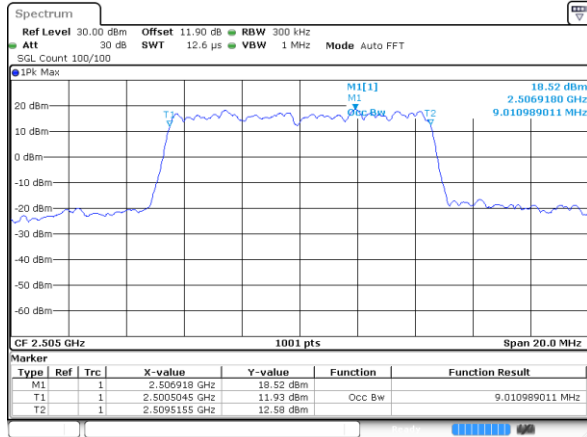
## Highest Channel / 5MHz / 16QAM





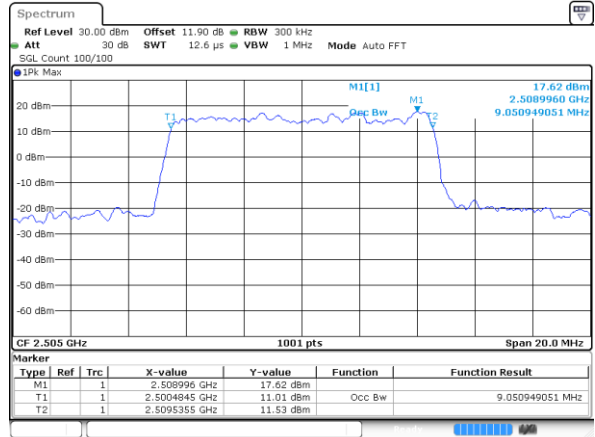
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



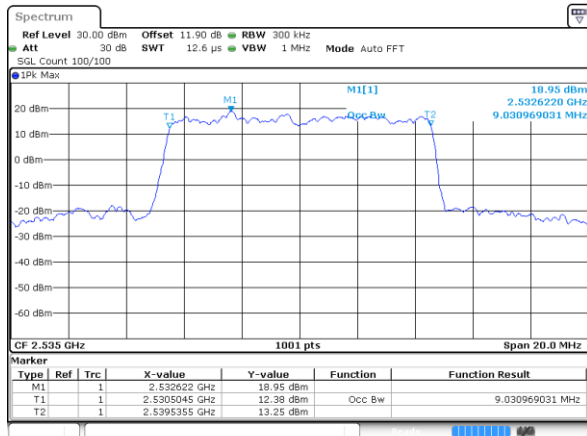
Date: 4 AUG 2017 10:55:57

## Lowest Channel / 10MHz / 16QAM



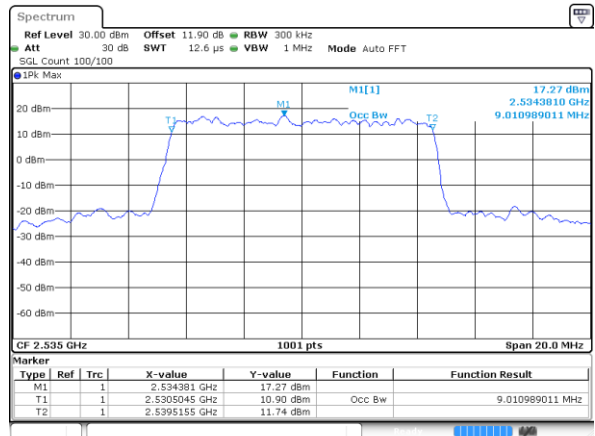
Date: 4 AUG 2017 10:56:07

## Middle Channel / 10MHz / QPSK



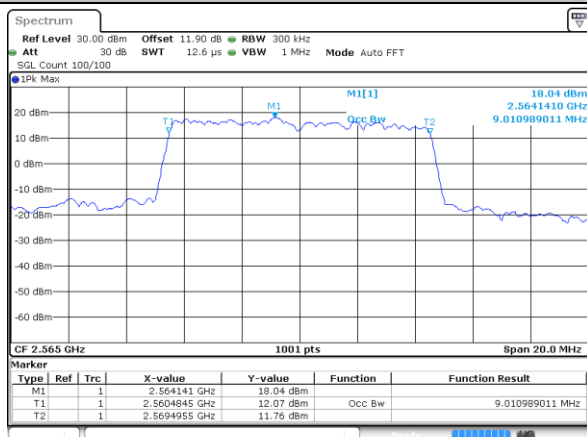
Date: 4 AUG 2017 11:03:00

## Middle Channel / 10MHz / 16QAM



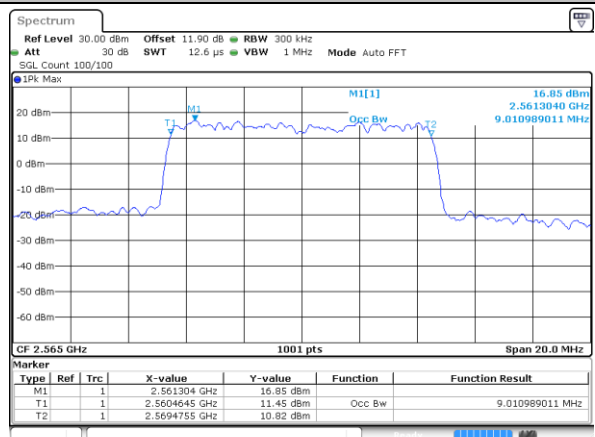
Date: 4 AUG 2017 11:03:10

## Highest Channel / 10MHz / QPSK



Date: 4 AUG 2017 11:05:27

## Highest Channel / 10MHz / 16QAM

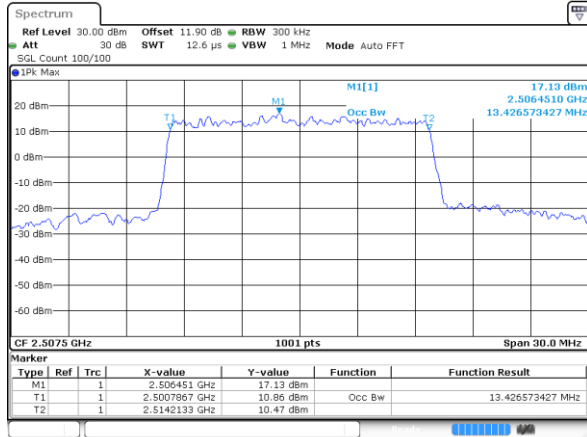


Date: 4 AUG 2017 11:05:37



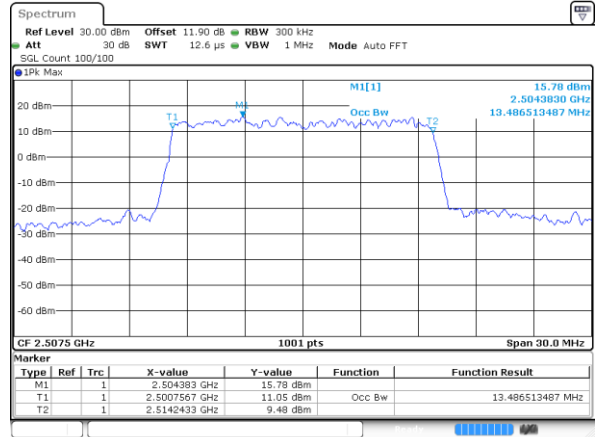
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



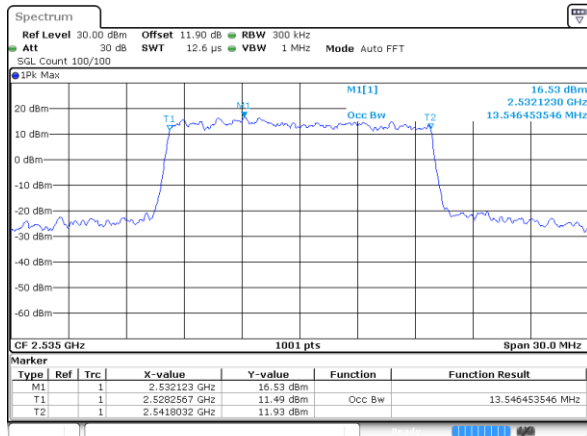
Date: 4 AUG 2017 11:12:30

## Lowest Channel / 15MHz / 16QAM



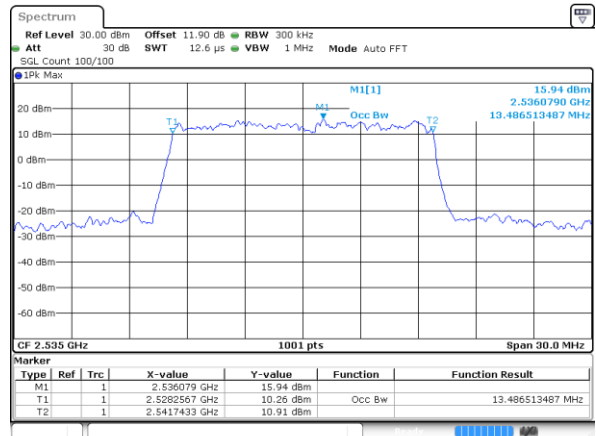
Date: 4 AUG 2017 11:12:40

## Middle Channel / 15MHz / QPSK



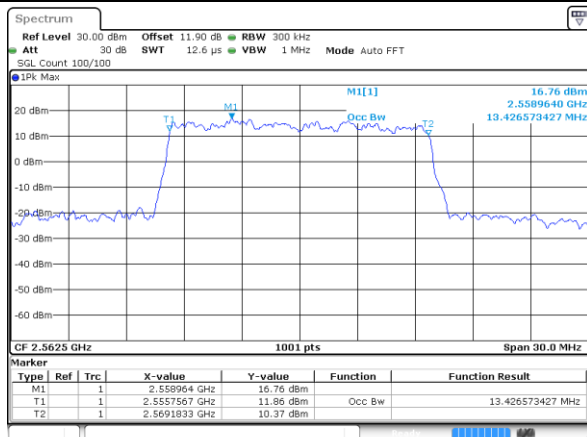
Date: 4 AUG 2017 11:19:34

## Middle Channel / 15MHz / 16QAM



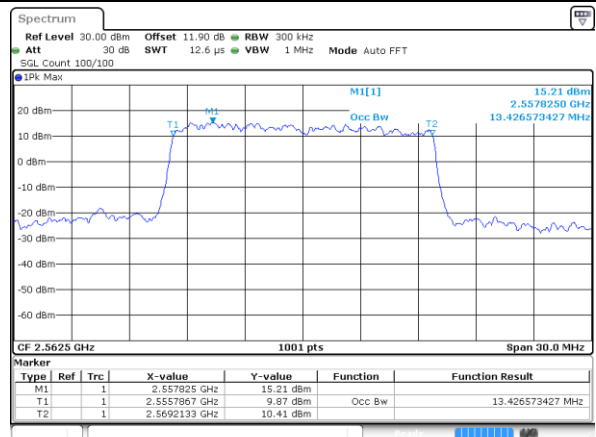
Date: 4 AUG 2017 11:19:44

## Highest Channel / 15MHz / QPSK



Date: 4 AUG 2017 11:22:00

## Highest Channel / 15MHz / 16QAM

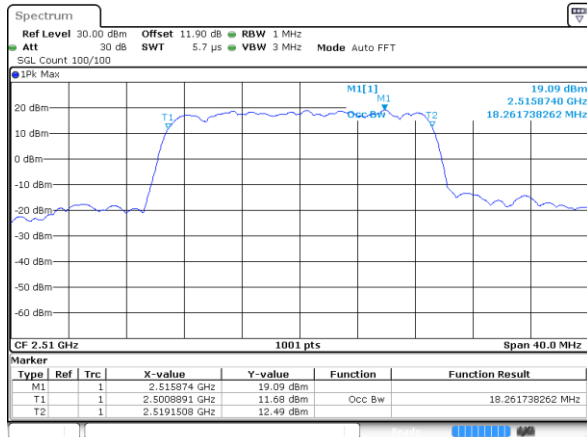


Date: 4 AUG 2017 11:22:10



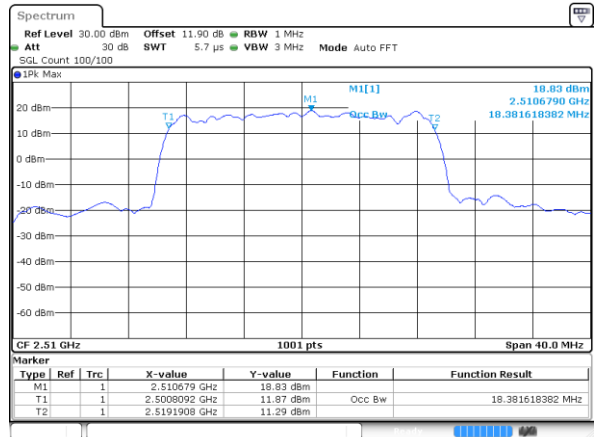
## LTE Band 7

## Lowest Channel / 20MHz / QPSK



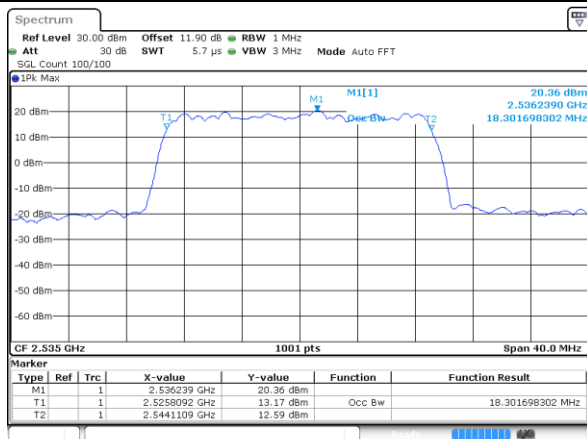
Date: 4 AUG 2017 11:31:18

## Lowest Channel / 20MHz / 16QAM



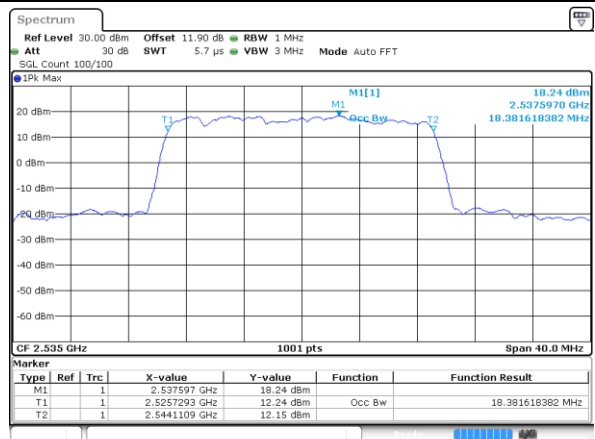
Date: 4 AUG 2017 11:31:28

## Middle Channel / 20MHz / QPSK



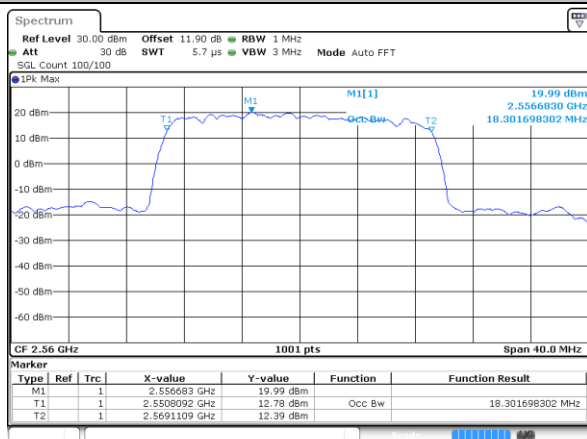
Date: 4 AUG 2017 11:38:22

## Middle Channel / 20MHz / 16QAM



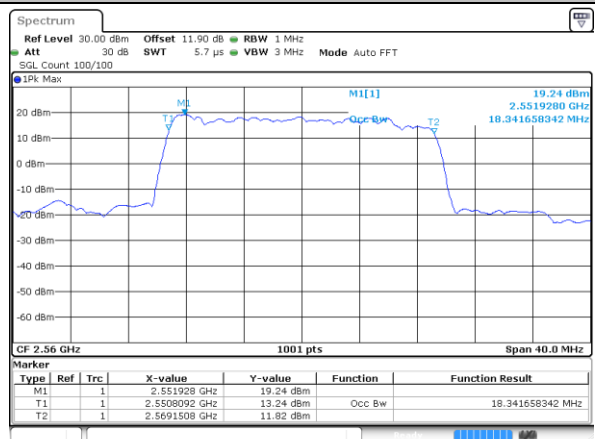
Date: 4 AUG 2017 11:38:32

## Highest Channel / 20MHz / QPSK



Date: 4 AUG 2017 11:40:48

## Highest Channel / 20MHz / 16QAM

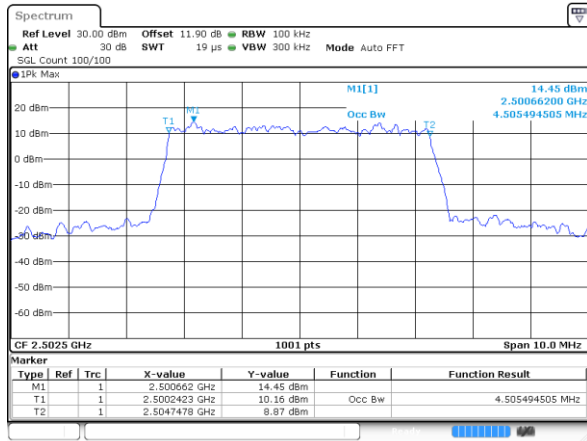


Date: 4 AUG 2017 11:40:58



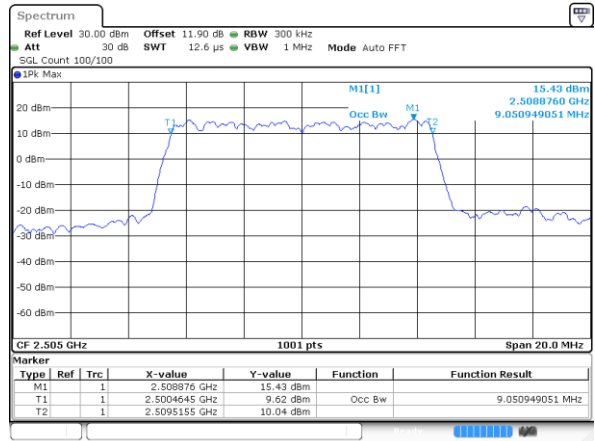
## LTE Band 7

## Lowest Channel / 5MHz / 64QAM



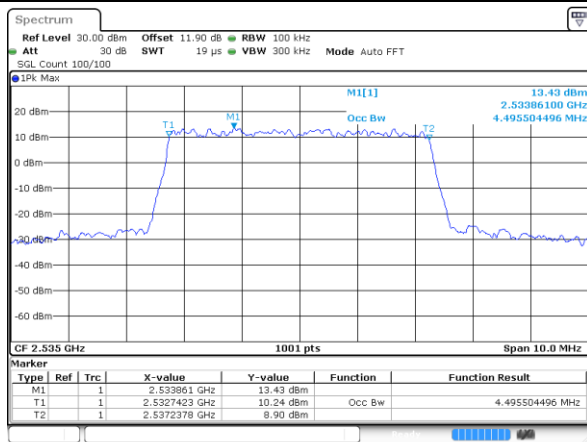
Date: 11.OCT.2017 13:22:35

## Lowest Channel / 10MHz / 64QAM



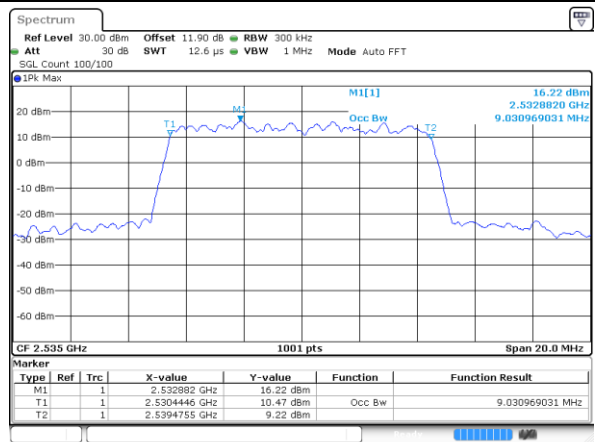
Date: 11.OCT.2017 13:30:52

## Middle Channel / 5MHz / 64QAM



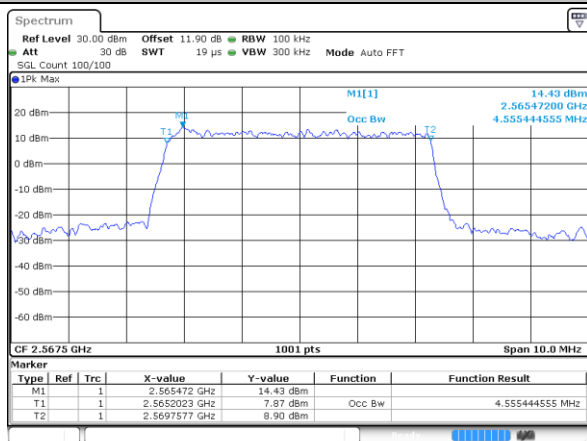
Date: 11.OCT.2017 13:26:07

## Middle Channel / 10MHz / 64QAM



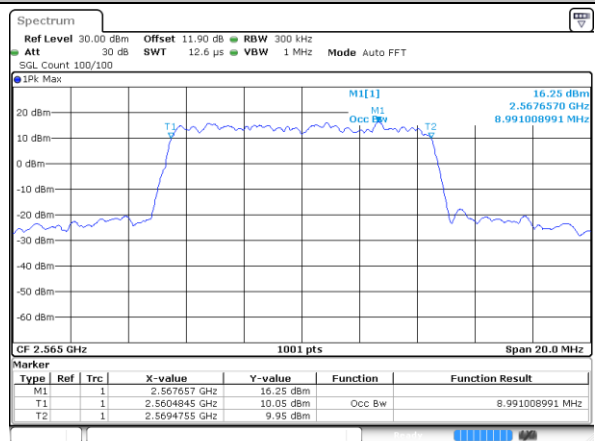
Date: 11.OCT.2017 13:34:23

## Highest Channel / 5MHz / 64QAM



Date: 11.OCT.2017 13:27:20

## Highest Channel / 10MHz / 64QAM

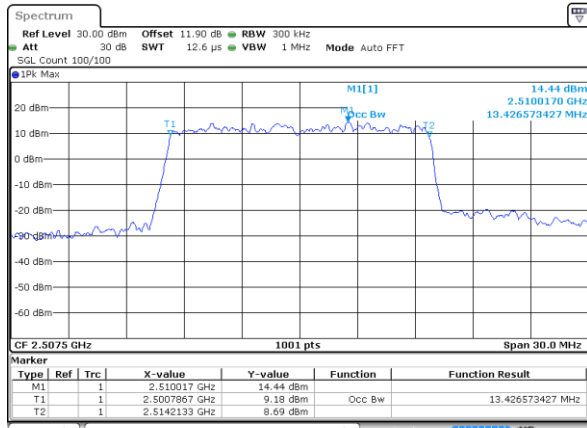


Date: 11.OCT.2017 13:35:37

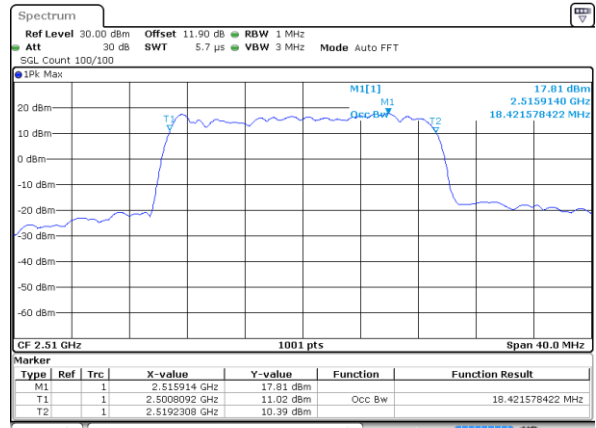


## LTE Band 7

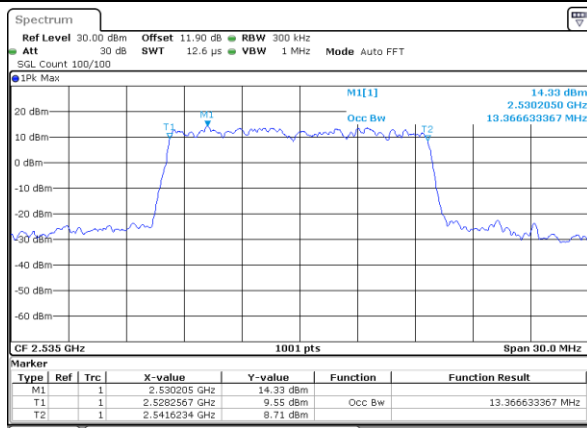
## Lowest Channel / 15MHz / 64QAM



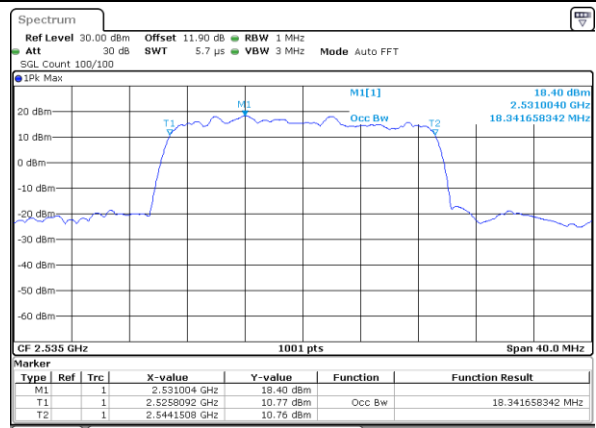
## Lowest Channel / 20MHz / 64QAM



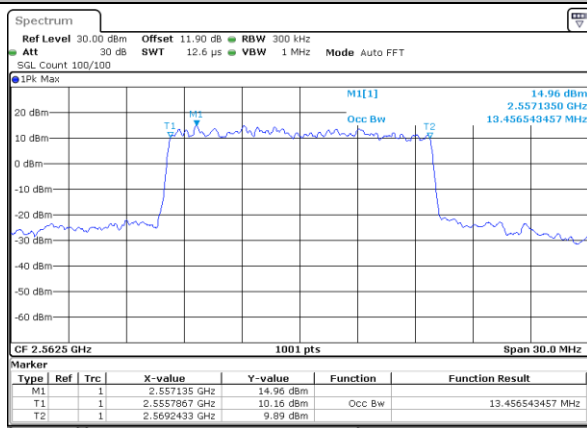
## Middle Channel / 15MHz / 64QAM



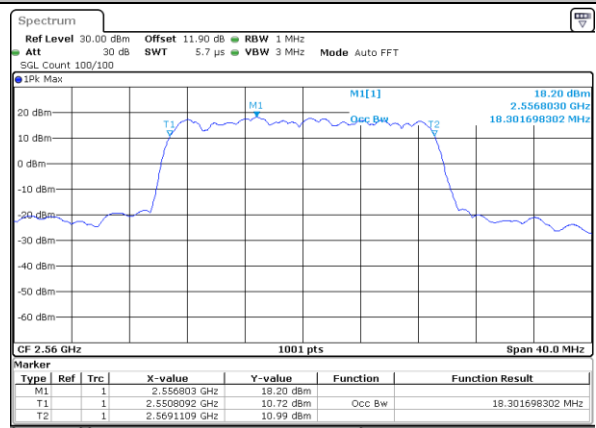
## Middle Channel / 20MHz / 64QAM



## Highest Channel / 15MHz / 64QAM



## Highest Channel / 20MHz / 64QAM



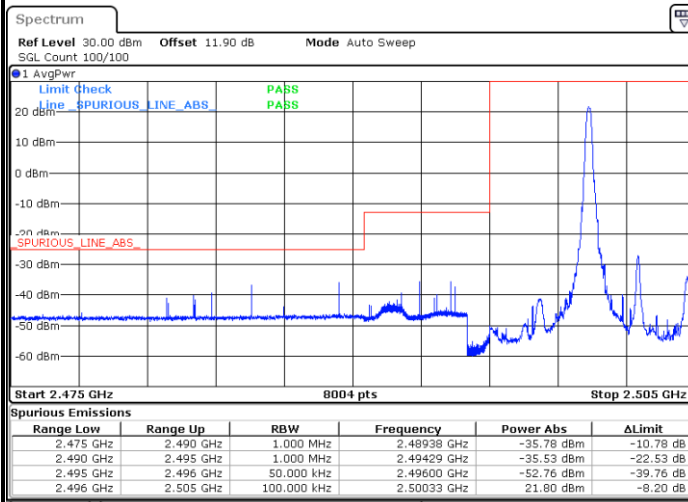


## **Conducted Band Edge**

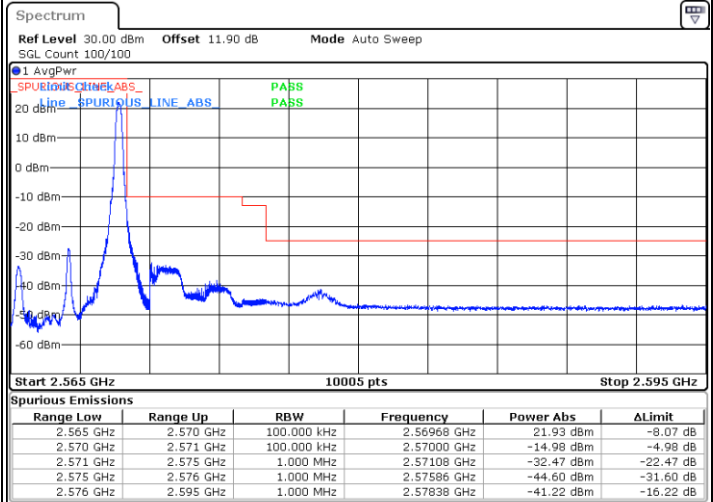


## LTE Band 7 / 5MHz / QPSK

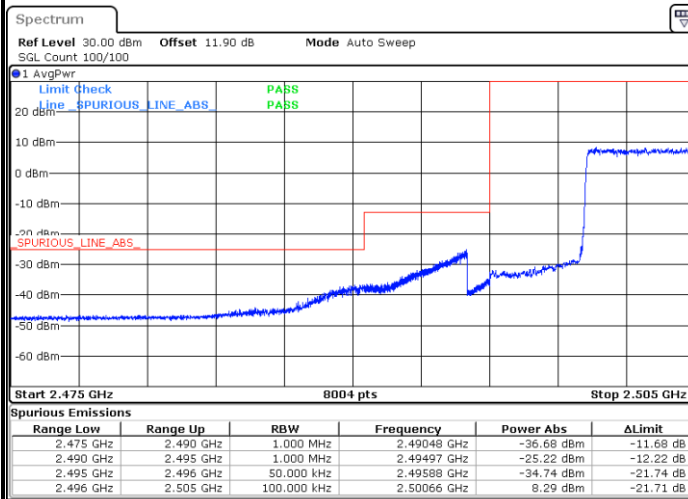
## Lowest Band Edge / 1 RB



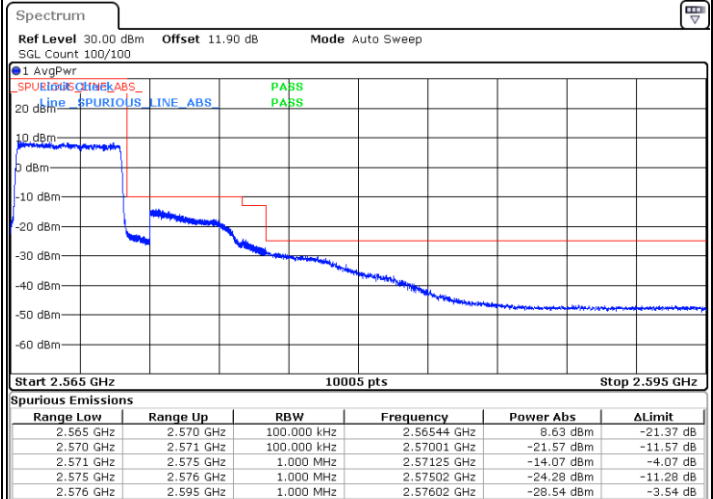
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



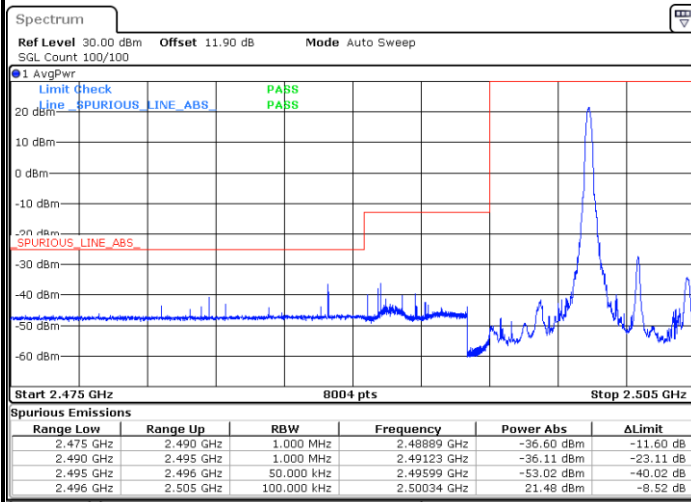
## Highest Band Edge / Full RB



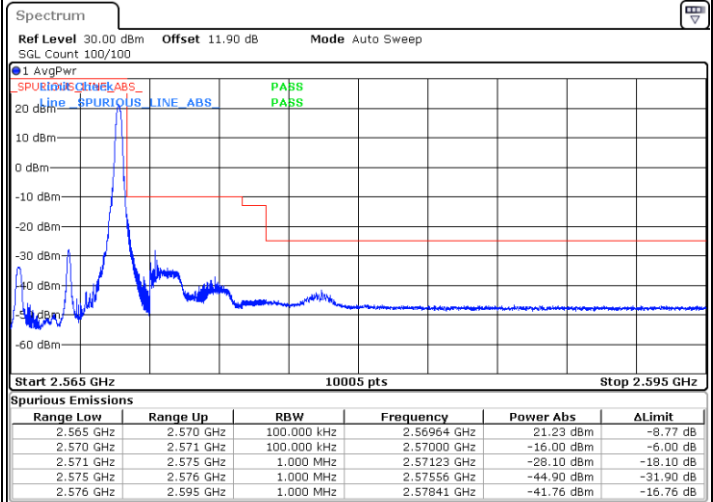


## LTE Band 7 / 5MHz / 16QAM

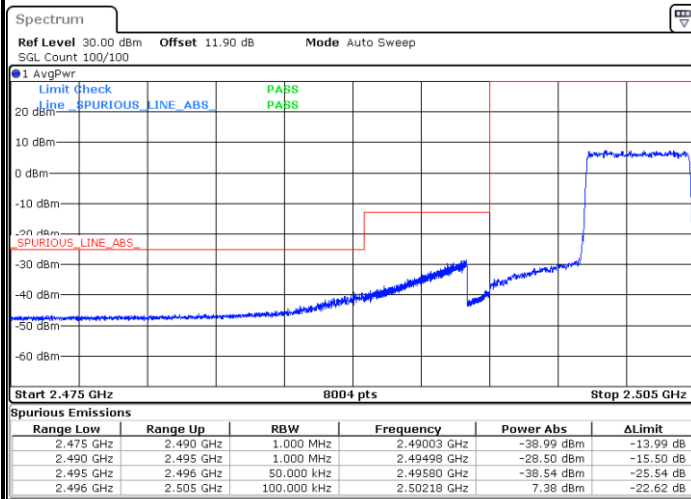
## Lowest Band Edge / 1 RB



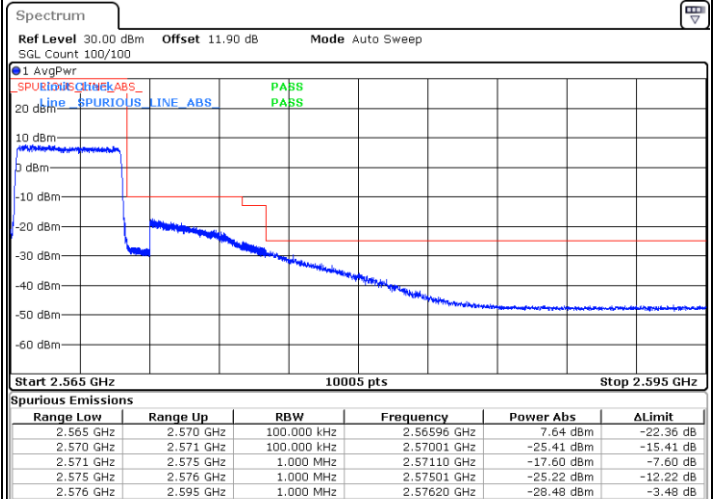
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



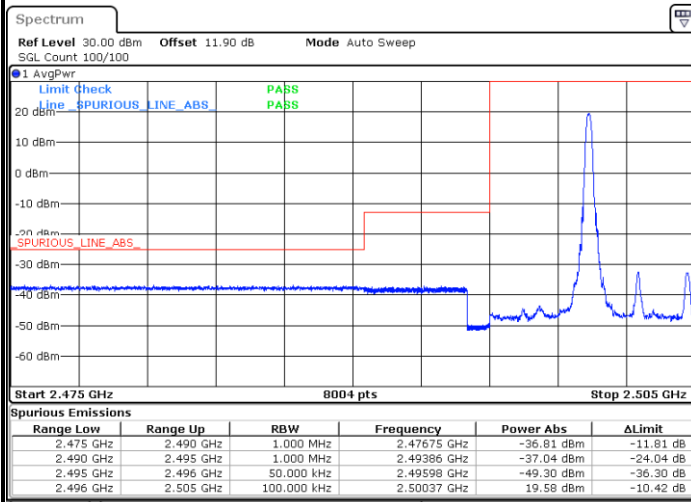
## Highest Band Edge / Full RB



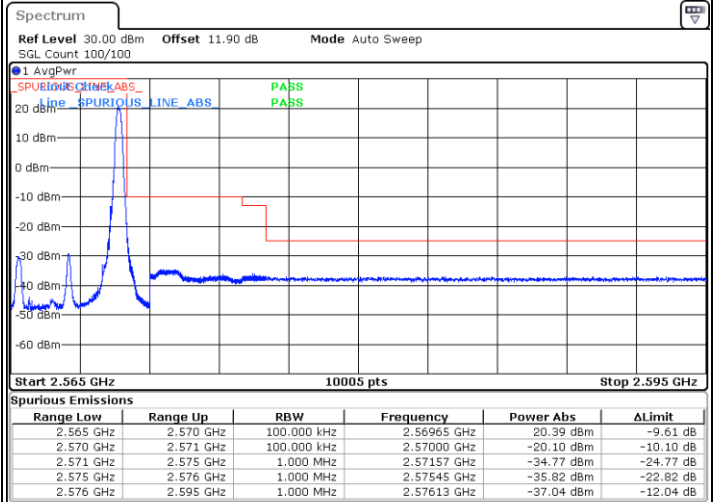


## LTE Band 7 / 5MHz / 64QAM

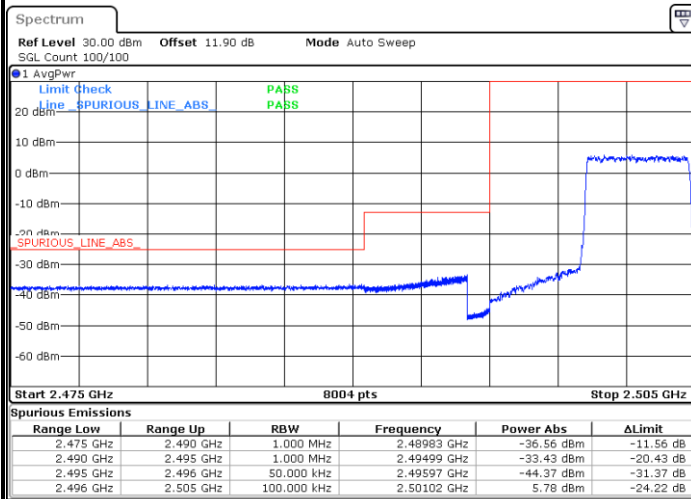
## Lowest Band Edge / 1RB



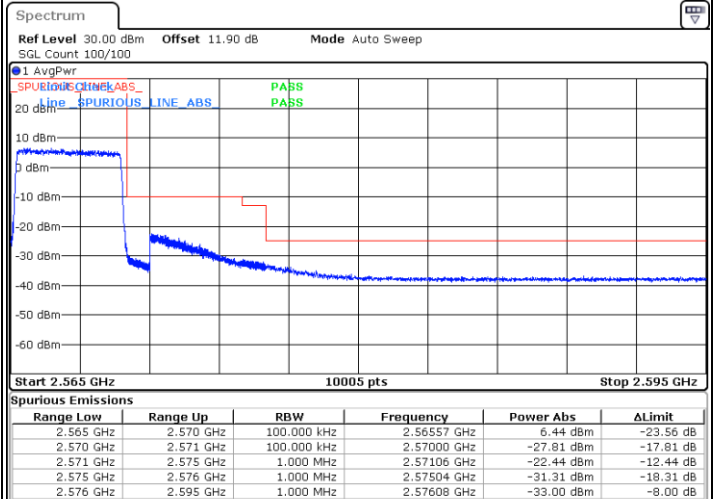
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



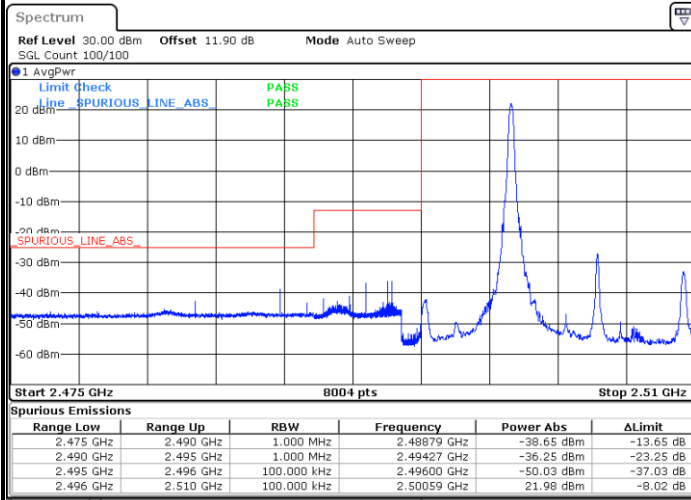
## Highest Band Edge / Full RB



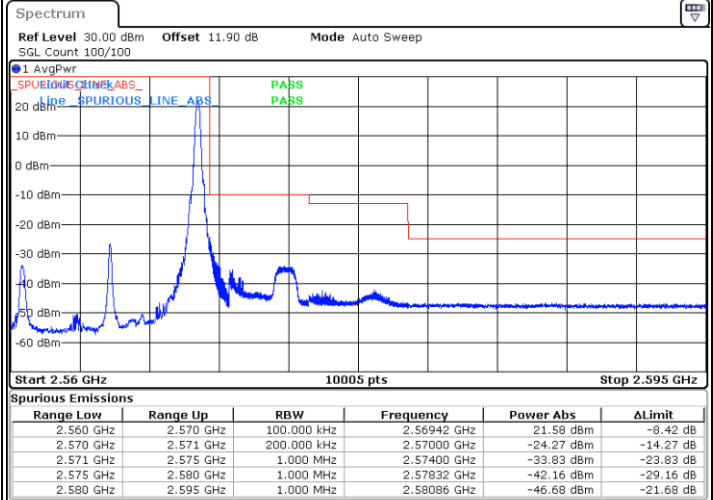


## LTE Band 7 / 10MHz / QPSK

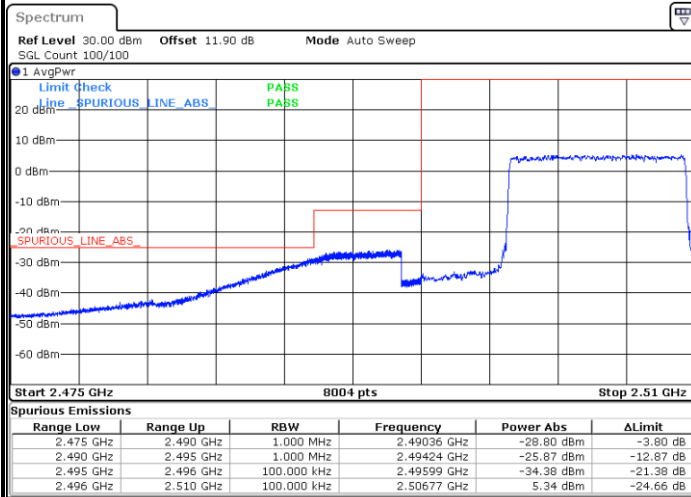
## Lowest Band Edge / 1 RB



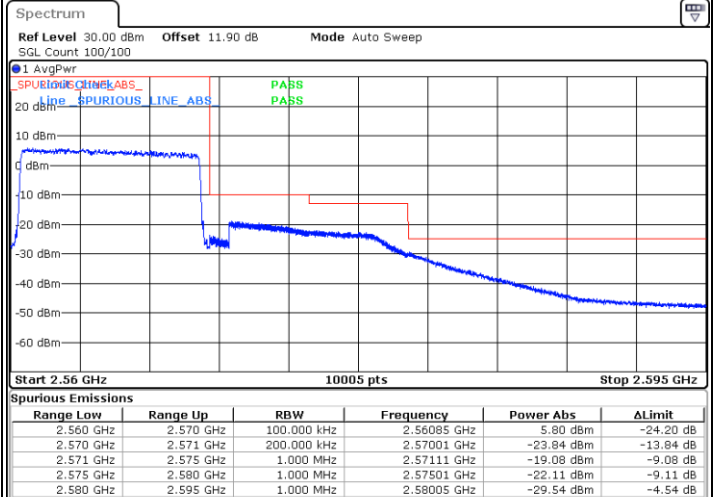
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



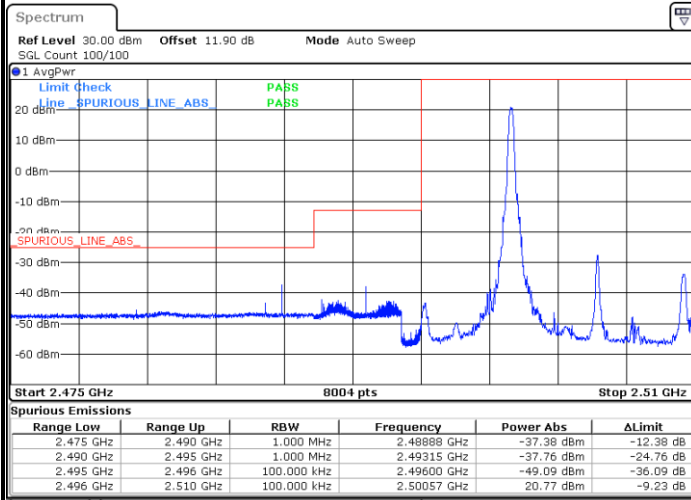
## Highest Band Edge / Full RB



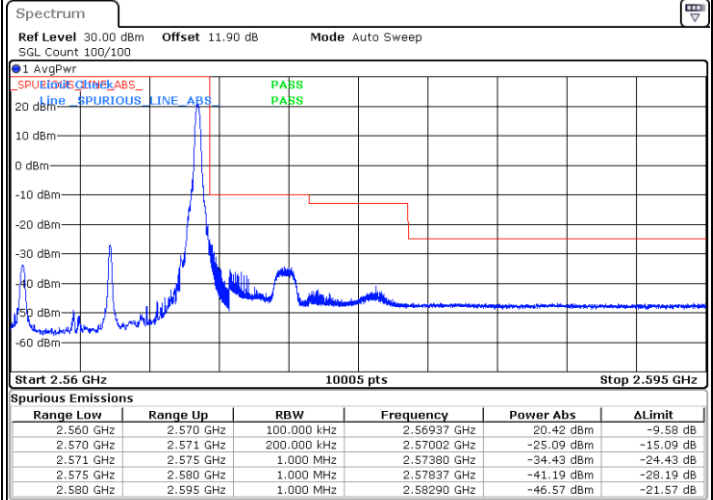


## LTE Band 7 / 10MHz / 16QAM

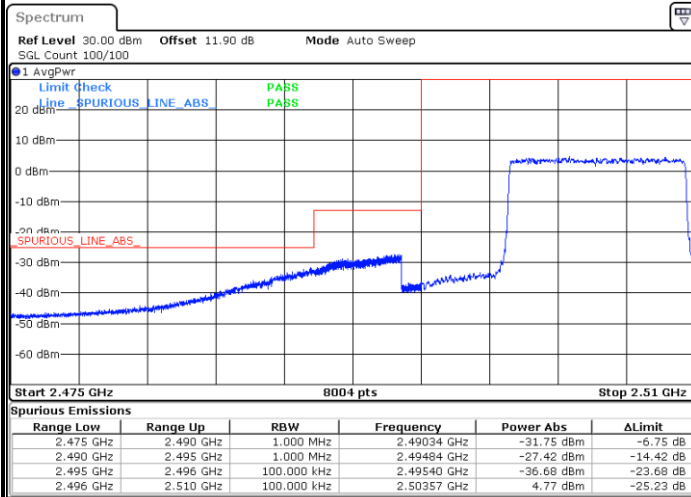
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

