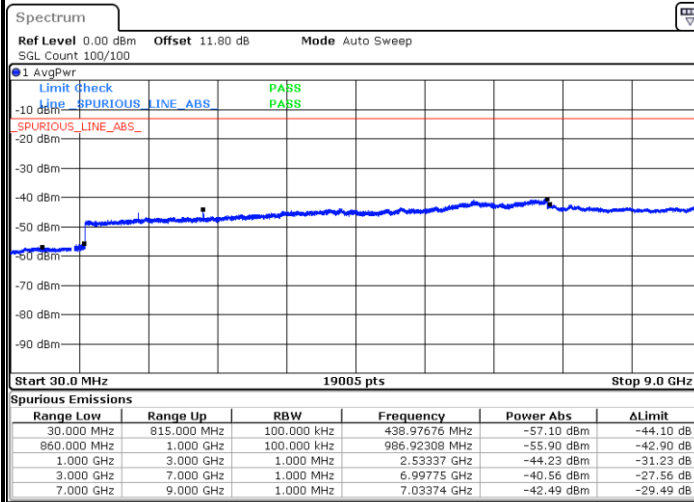




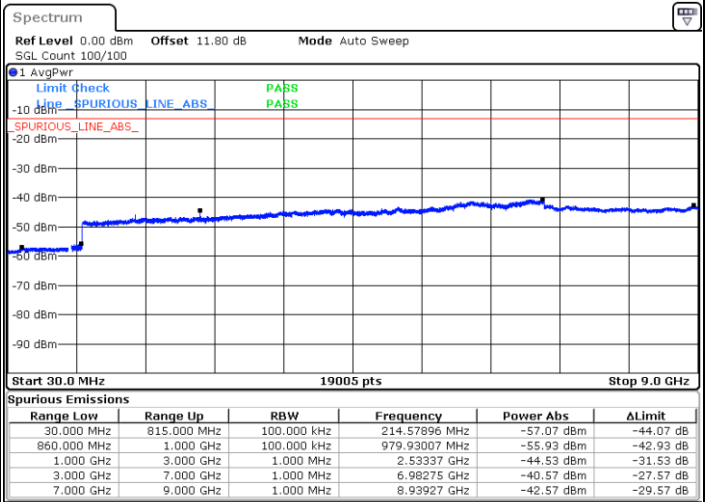
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 6.JAN.2018 01:04:17

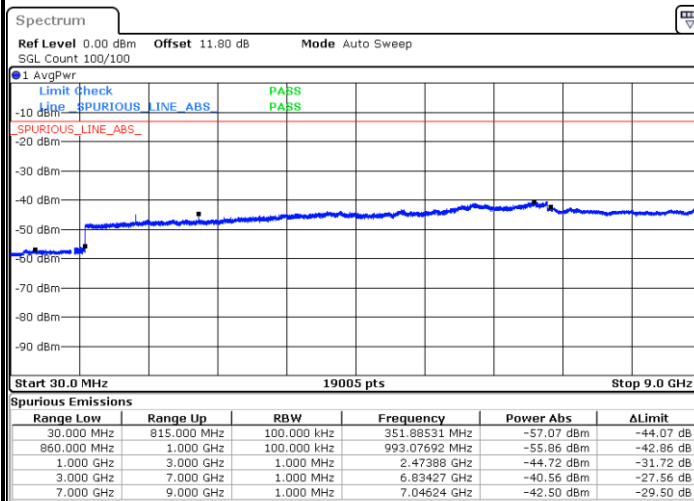
## Highest Channel / 16QAM



Date: 6.JAN.2018 01:05:10

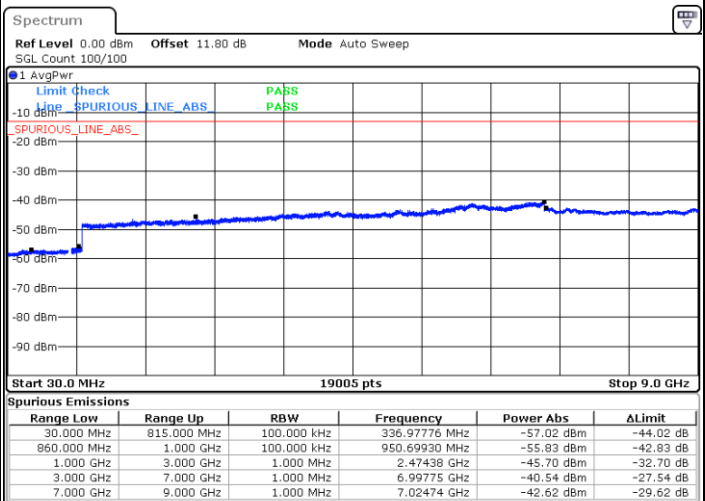
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 6.JAN.2018 01:13:15

## Lowest Channel / 16QAM

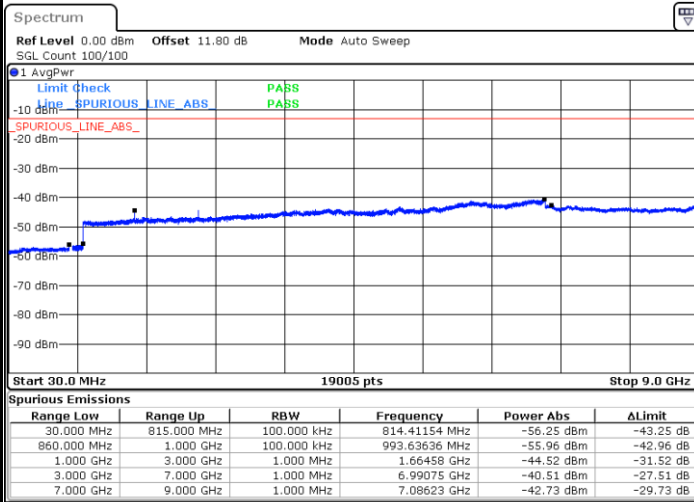


Date: 6.JAN.2018 01:14:08



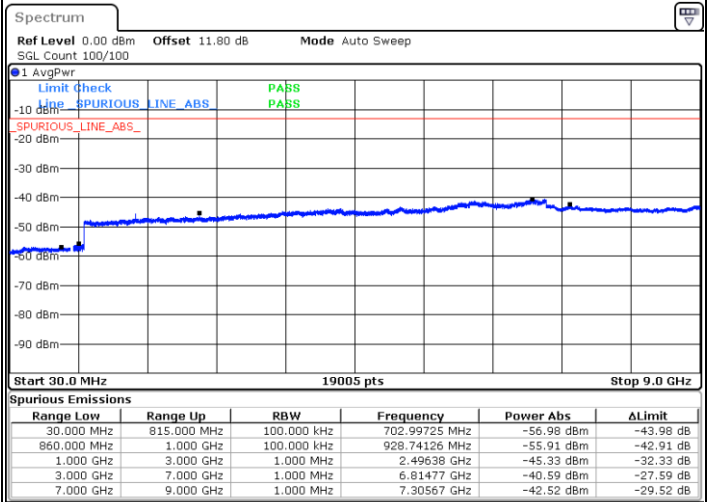
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



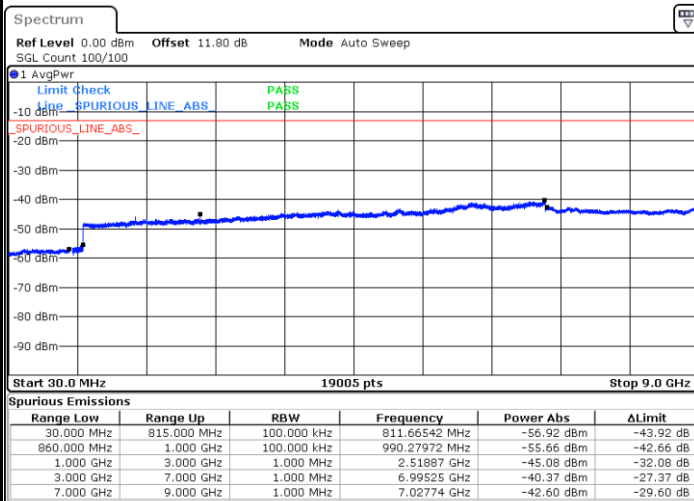
Date: 6.JAN.2018 01:15:40

## Middle Channel / 16QAM



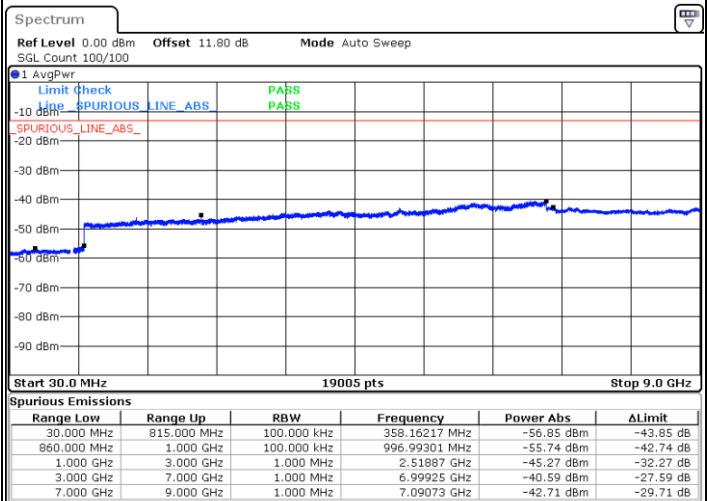
Date: 6.JAN.2018 01:16:33

## Highest Channel / QPSK



Date: 6.JAN.2018 01:24:37

## Highest Channel / 16QAM



Date: 6.JAN.2018 01:25:30

## 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    | 0.0018                             | PASS   |
| 40               | Normal Voltage    | 0.0002                             |        |
| 30               | Normal Voltage    | 0.0014                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0007                             |        |
| 0                | Normal Voltage    | 0.0016                             |        |
| -10              | Normal Voltage    | 0.0020                             |        |
| -20              | Normal Voltage    | 0.0011                             |        |
| -30              | Normal Voltage    | 0.0022                             |        |
| 20               | Maximum Voltage   | 0.0056                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0032                             |        |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7

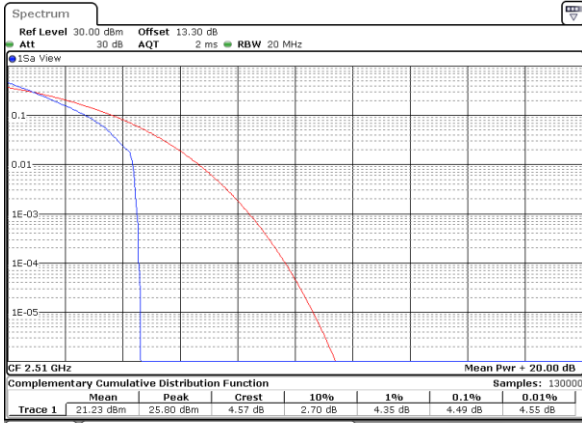
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.49               | 4.75    | 5.48  | 5.74    | PASS        |
| Middle CH  | 4.32               | 4.84    | 5.65  | 5.91    |             |
| Highest CH | 4.81               | 4.99    | 5.86  | 6.00    |             |

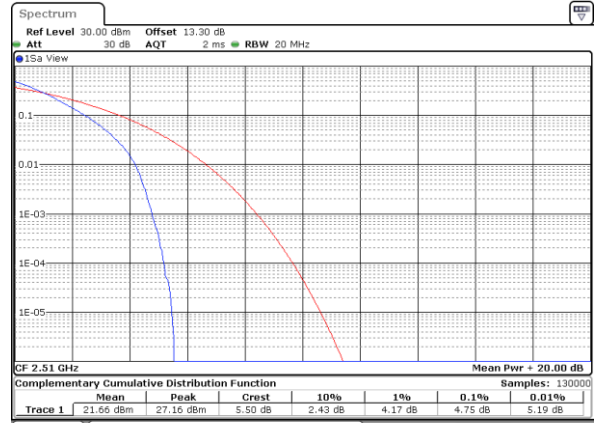


## LTE Band 7 / 20MHz / QPSK

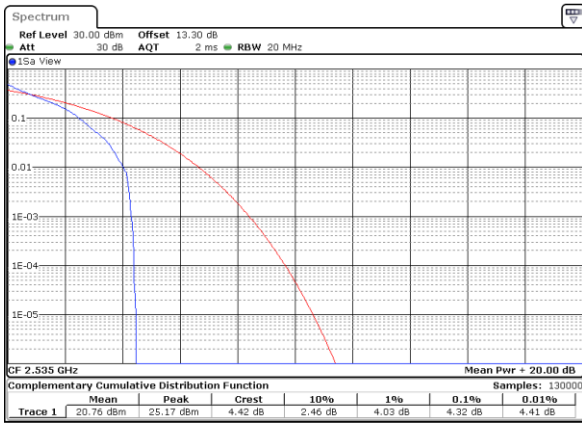
## Lowest Channel / 1RB



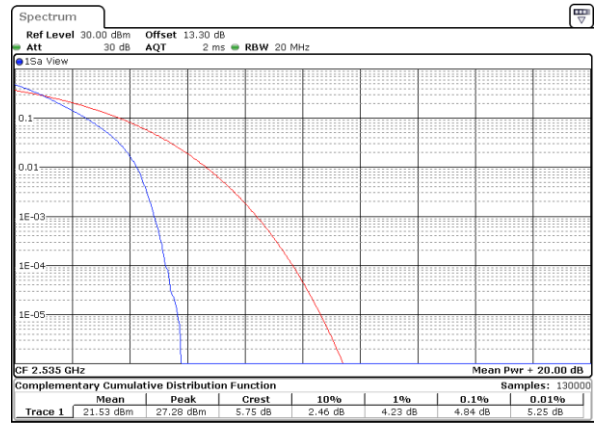
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



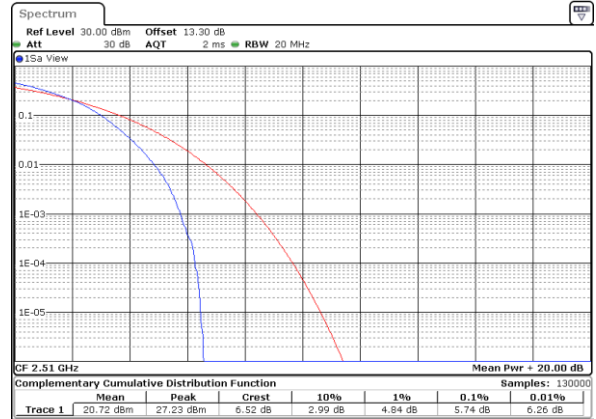


## LTE Band 7 / 20MHz / 16QAM

## Lowest Channel / 1RB



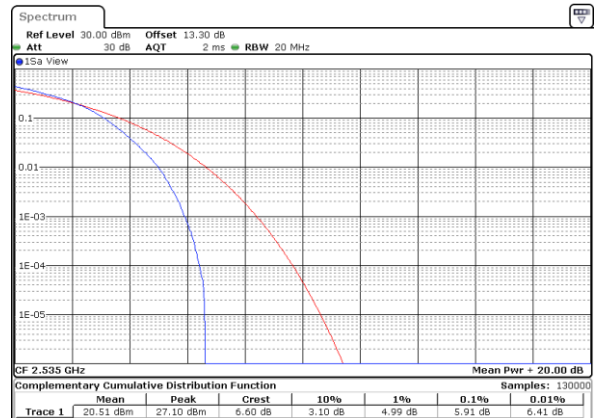
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





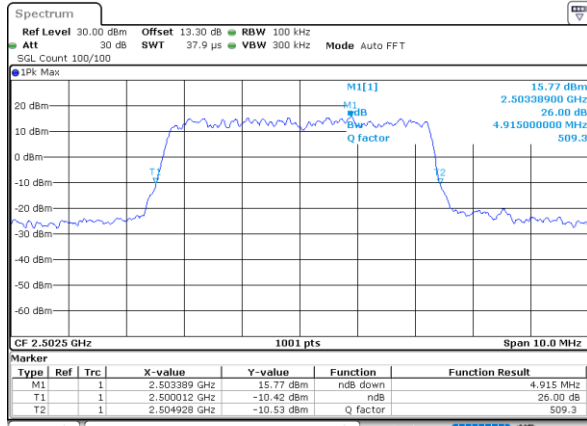
**26dB Bandwidth**

| 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  | -                         | -     | -    | -     | 4.92 | 4.95  | 9.75  | 9.91  | 14.45 | 14.18 | 20.14 | 19.98 |
| Middle CH  | -                         | -     | -    | -     | 4.93 | 4.90  | 9.69  | 9.73  | 14.39 | 14.42 | 20.10 | 20.18 |
| Highest CH | -                         | -     | -    | -     | 4.93 | 4.96  | 9.87  | 9.79  | 14.21 | 14.24 | 20.22 | 20.14 |



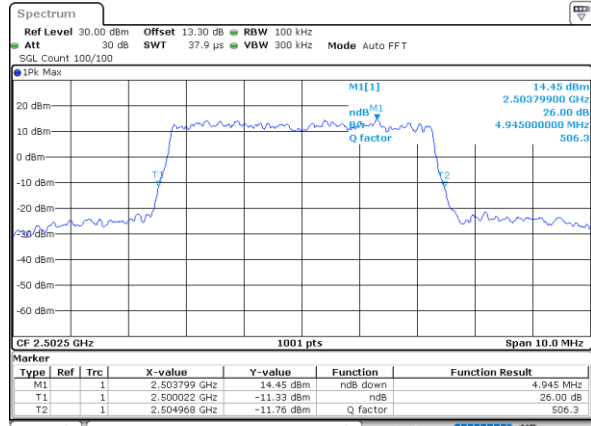
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



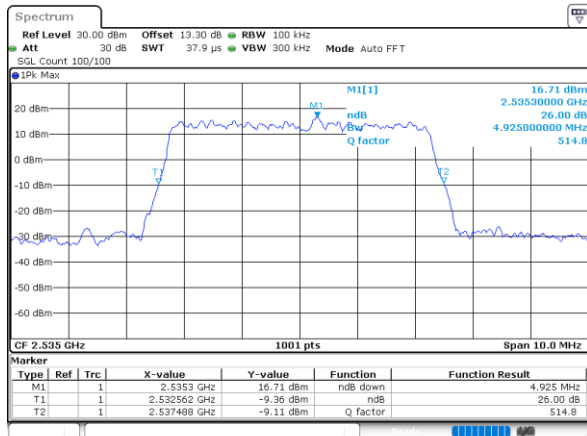
Date: 6,JAN,2018 21:37:52

## Lowest Channel / 5MHz / 16QAM



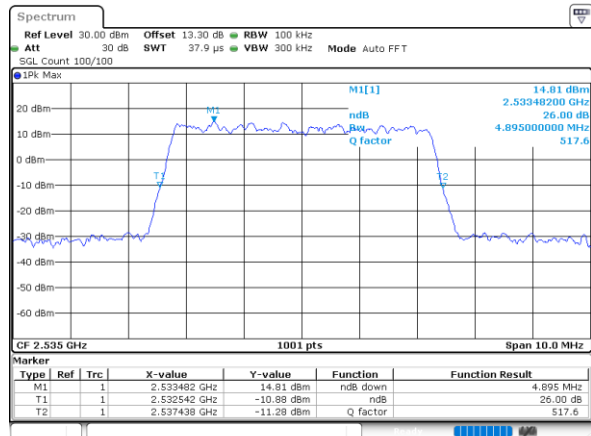
Date: 6,JAN,2018 21:38:02

## Middle Channel / 5MHz / QPSK



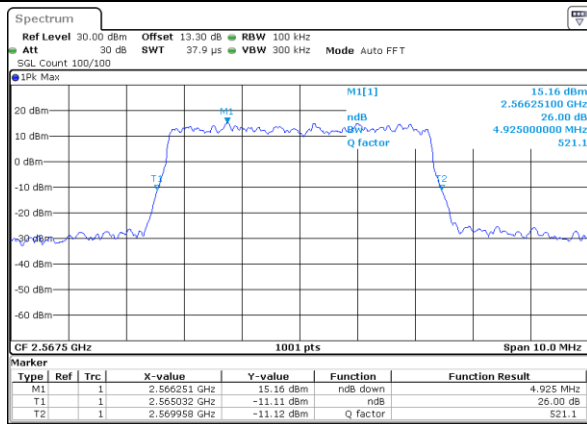
Date: 6,JAN,2018 21:44:49

## Middle Channel / 5MHz / 16QAM



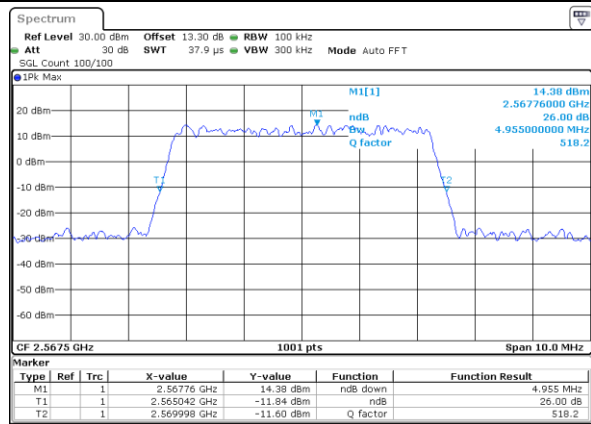
Date: 6,JAN,2018 21:44:59

## Highest Channel / 5MHz / QPSK



Date: 6,JAN,2018 21:50:21

## Highest Channel / 5MHz / 16QAM

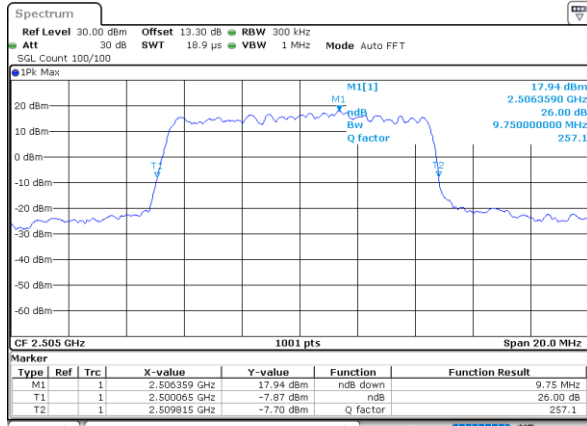


Date: 6,JAN,2018 21:50:31



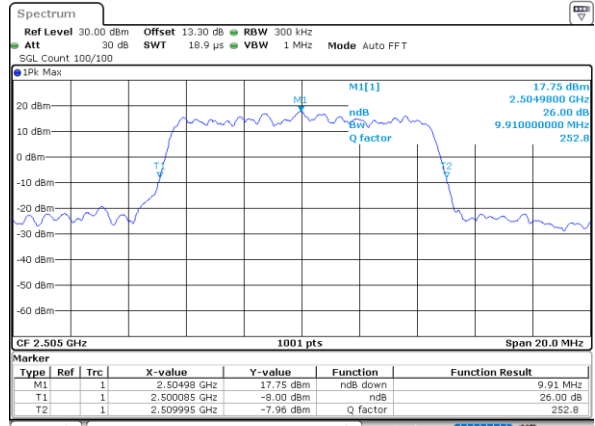
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



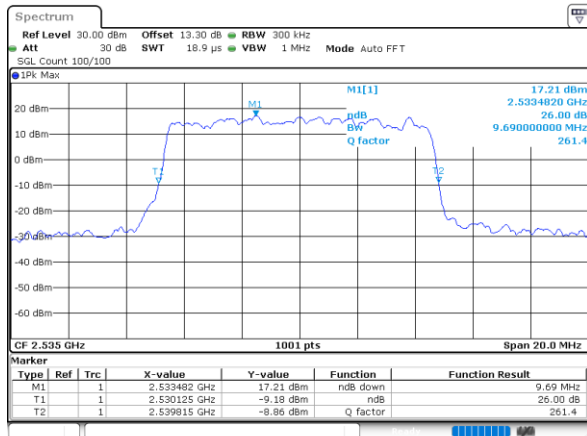
Date: 6,JAN,2018 21:57:19

## Lowest Channel / 10MHz / 16QAM



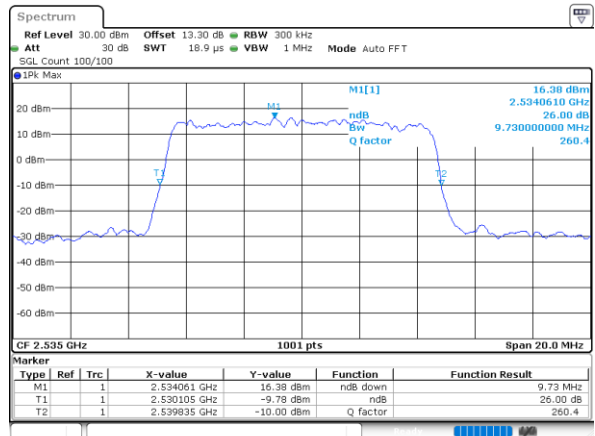
Date: 6,JAN,2018 21:57:29

## Middle Channel / 10MHz / QPSK



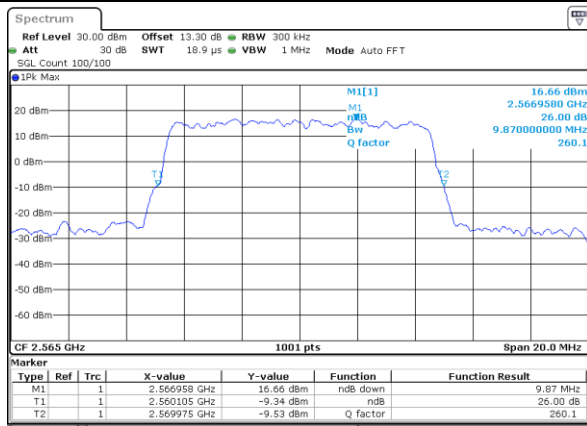
Date: 6,JAN,2018 22:04:16

## Middle Channel / 10MHz / 16QAM



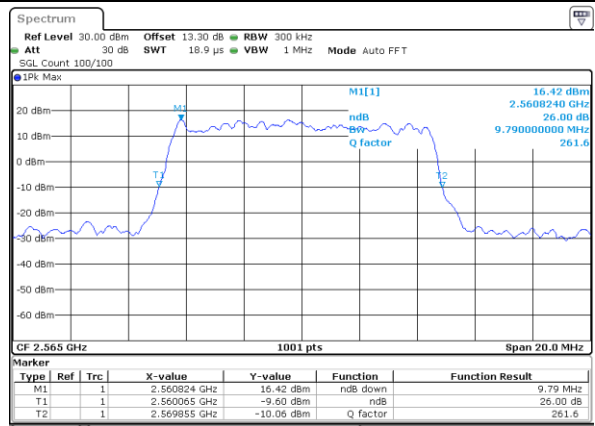
Date: 6,JAN,2018 22:04:26

## Highest Channel / 10MHz / QPSK



Date: 6,JAN,2018 22:06:41

## Highest Channel / 10MHz / 16QAM

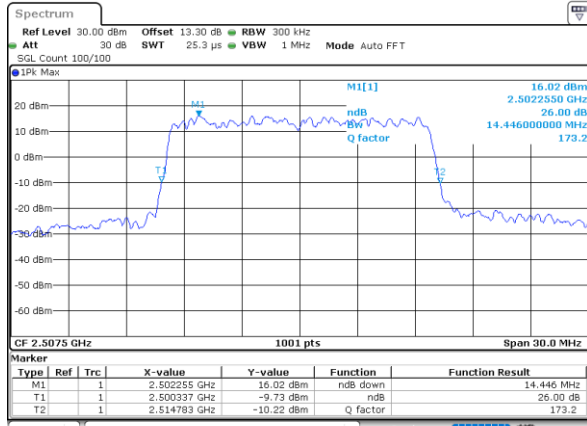


Date: 6,JAN,2018 22:06:51



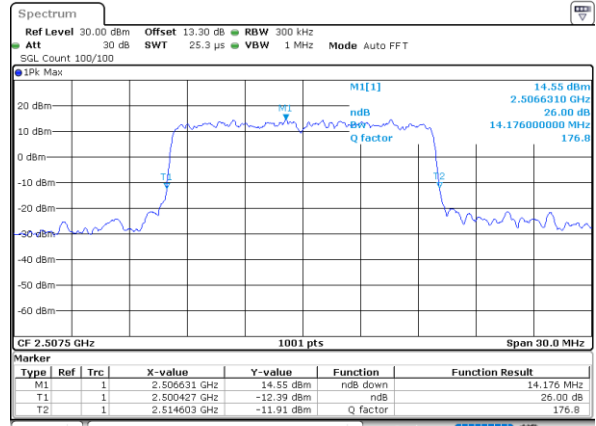
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



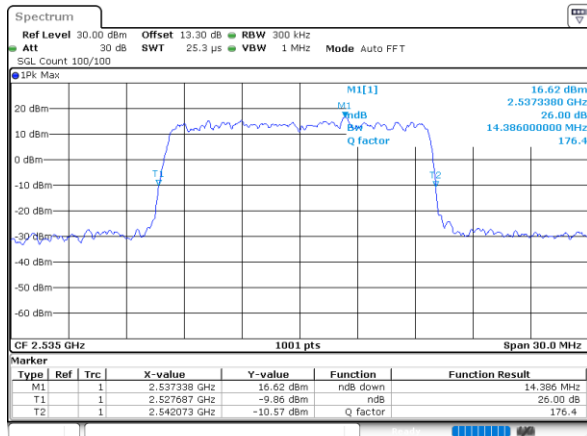
Date: 6,JAN,2018 22:13:39

## Lowest Channel / 15MHz / 16QAM



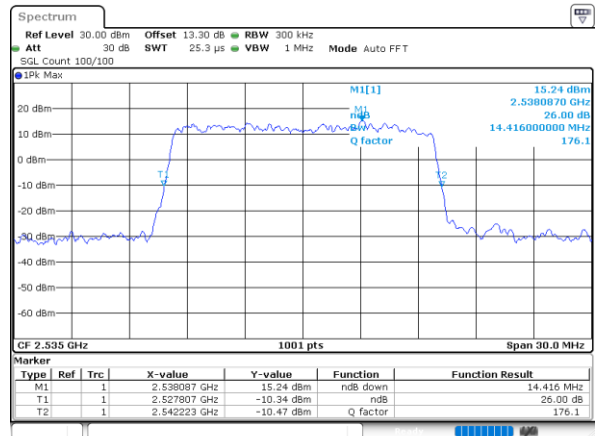
Date: 6,JAN,2018 22:13:48

## Middle Channel / 15MHz / QPSK



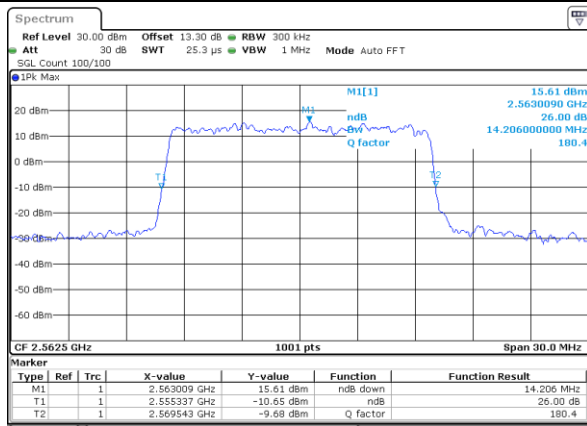
Date: 6,JAN,2018 22:20:36

## Middle Channel / 15MHz / 16QAM



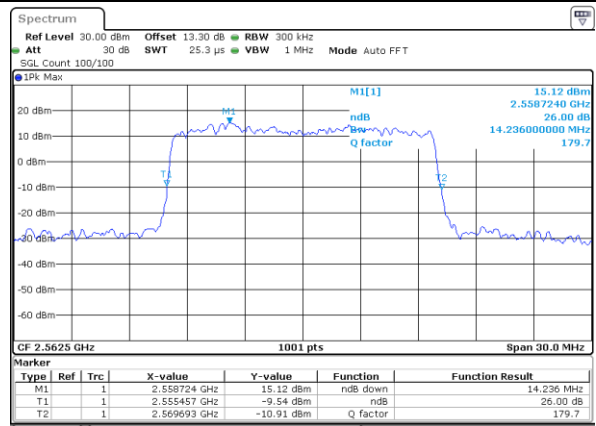
Date: 6,JAN,2018 22:20:46

## Highest Channel / 15MHz / QPSK



Date: 6,JAN,2018 22:23:01

## Highest Channel / 15MHz / 16QAM

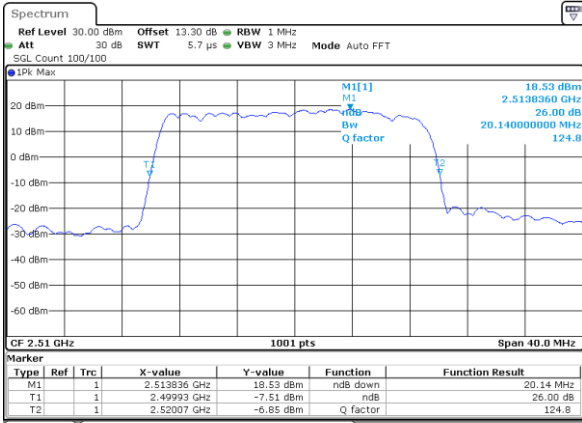


Date: 6,JAN,2018 22:23:11

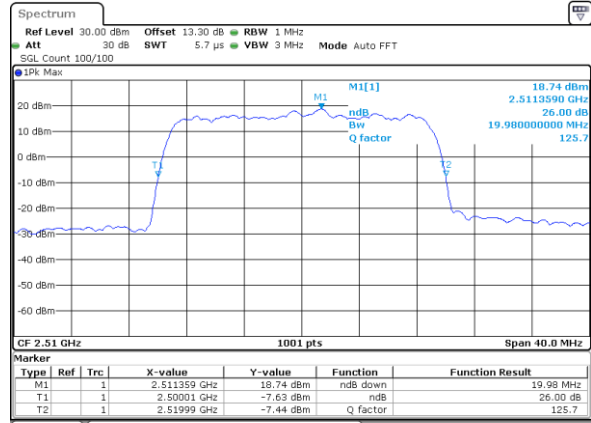


## LTE Band 7

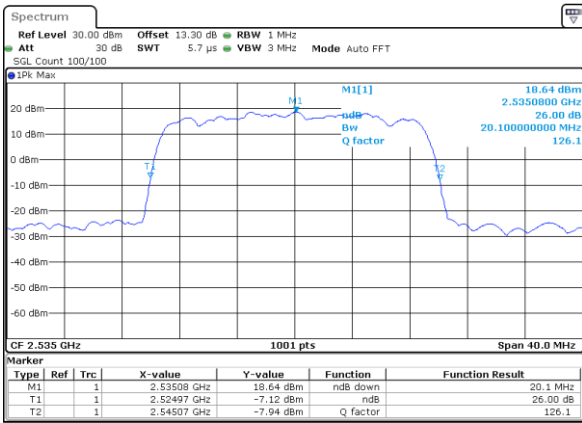
## Lowest Channel / 20MHz / QPSK



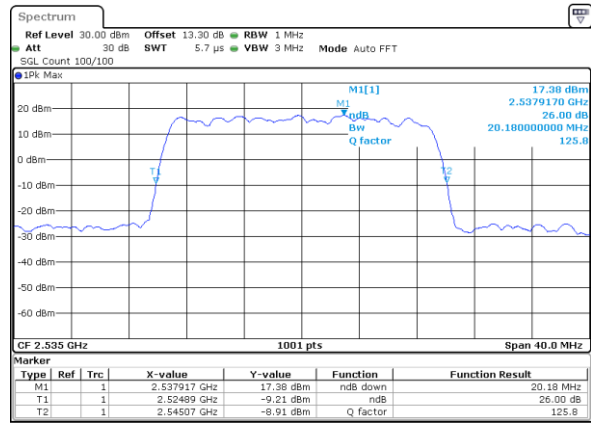
## Lowest Channel / 20MHz / 16QAM



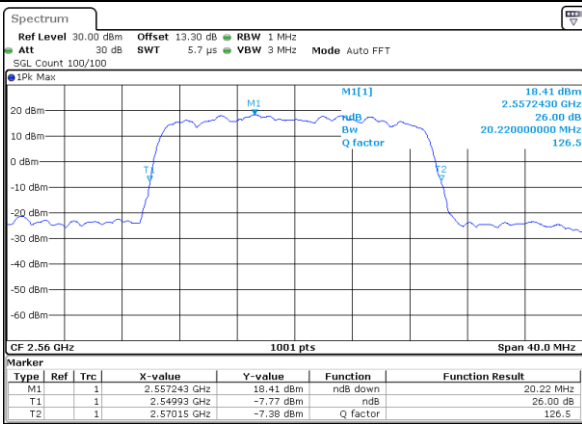
## Middle Channel / 20MHz / QPSK



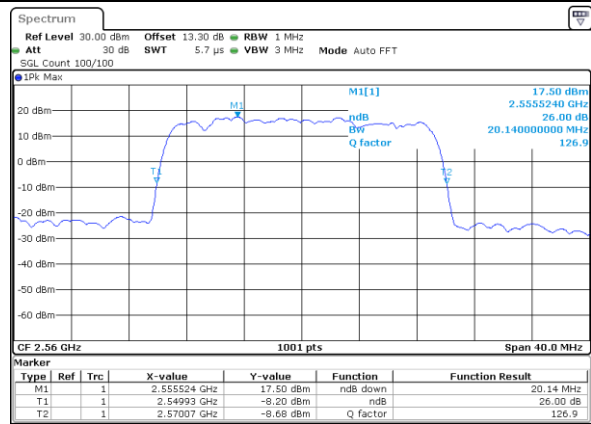
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM





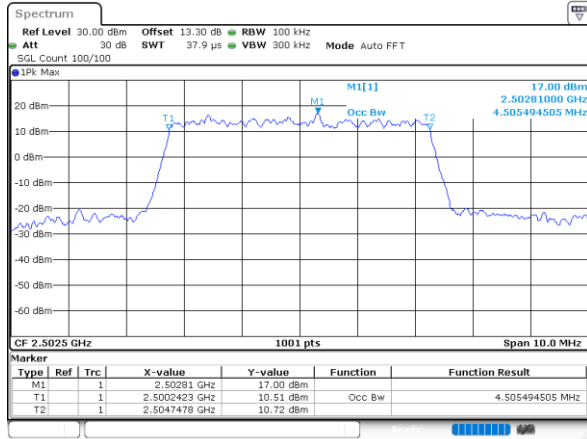
## Occupied Bandwidth

| 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  | -                        | -     | -    | -     | 4.51 | 4.49  | 9.01  | 8.97  | 13.37 | 13.49 | 18.18 | 18.42 |
| Middle CH  | -                        | -     | -    | -     | 4.48 | 4.48  | 9.03  | 9.05  | 13.43 | 13.43 | 18.26 | 18.38 |
| Highest CH | -                        | -     | -    | -     | 4.49 | 4.48  | 9.05  | 9.03  | 13.34 | 13.40 | 18.14 | 18.42 |

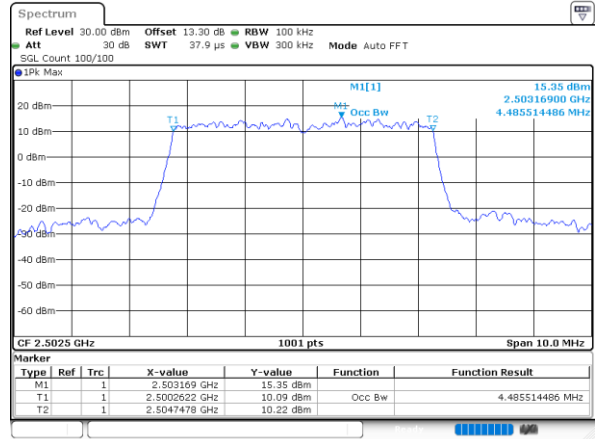


## LTE Band 7

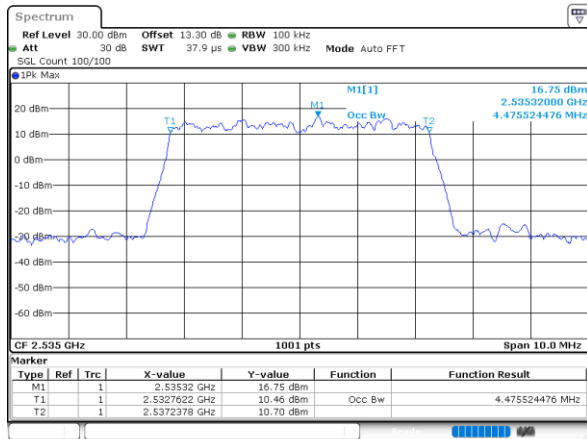
## Lowest Channel / 5MHz / QPSK



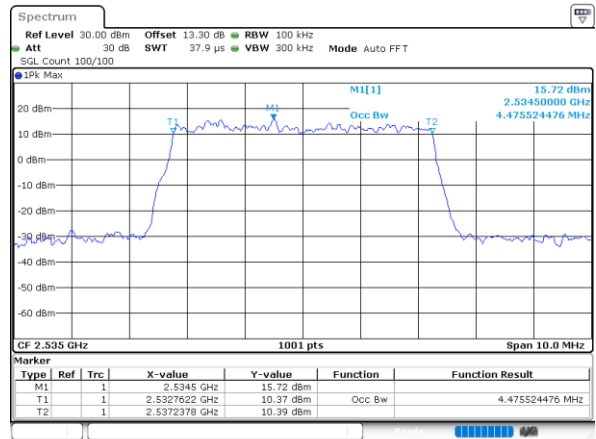
## Lowest Channel / 5MHz / 16QAM



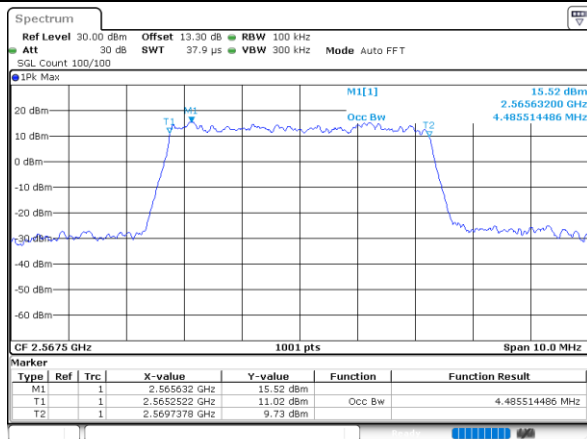
## Middle Channel / 5MHz / QPSK



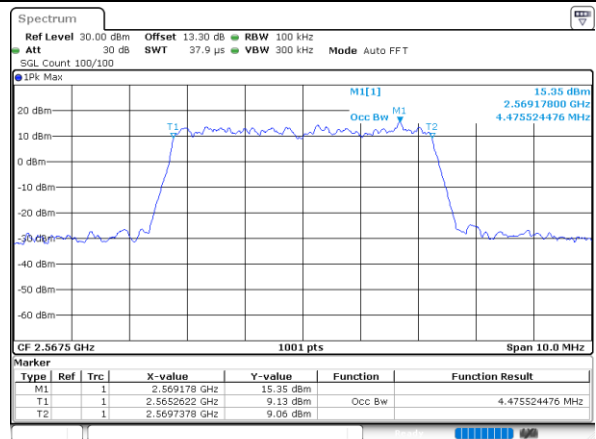
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



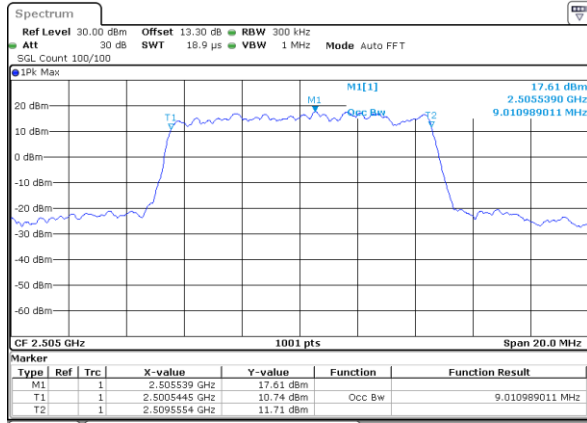
## Highest Channel / 5MHz / 16QAM



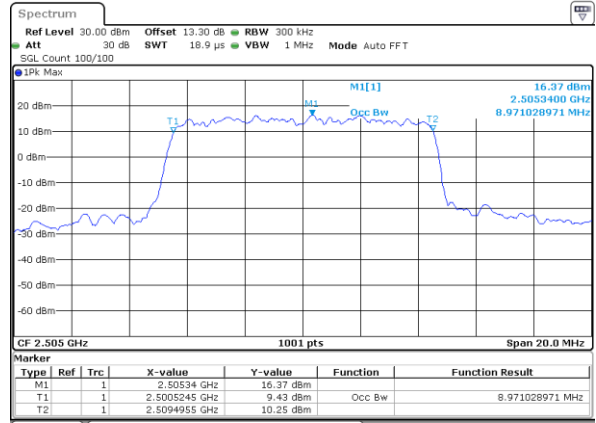


## LTE Band 7

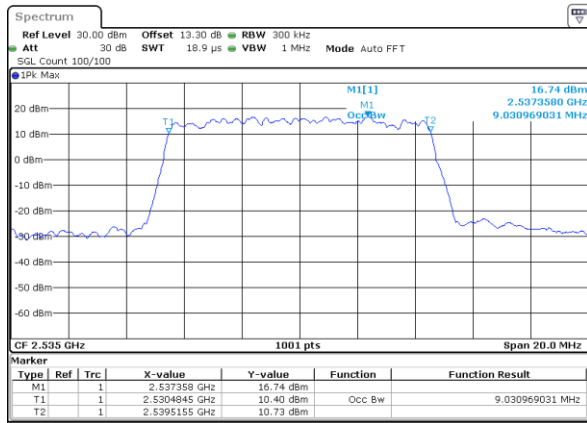
## Lowest Channel / 10MHz / QPSK



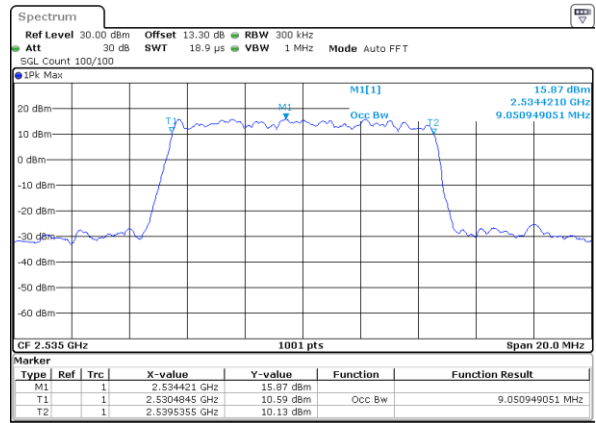
## Lowest Channel / 10MHz / 16QAM



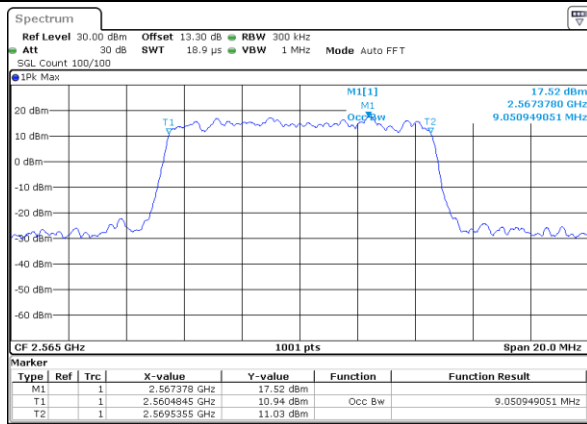
## Middle Channel / 10MHz / QPSK



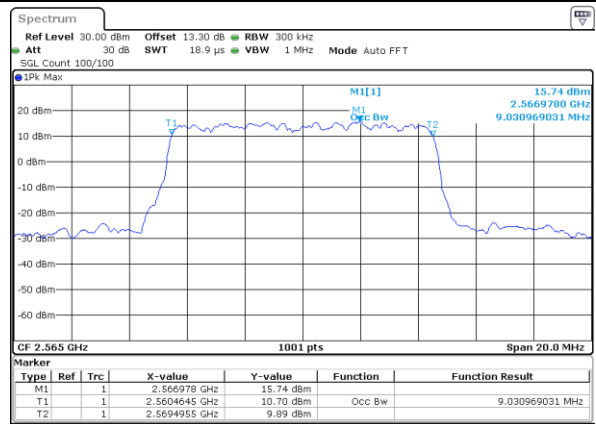
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



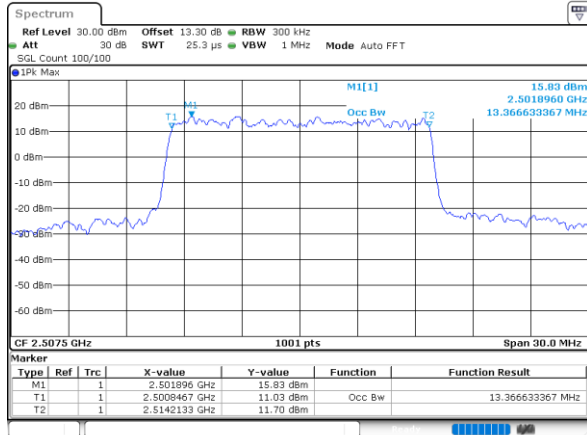
## Highest Channel / 10MHz / 16QAM





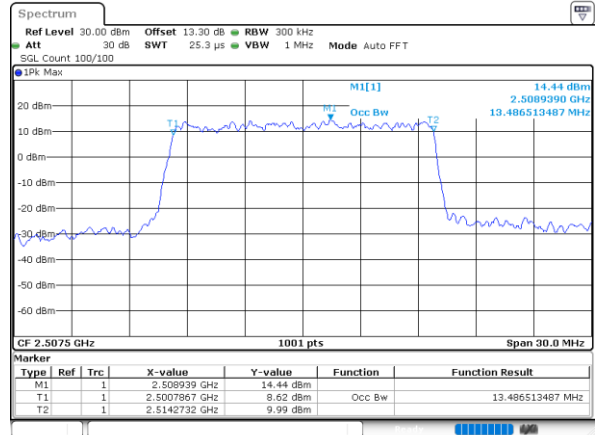
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



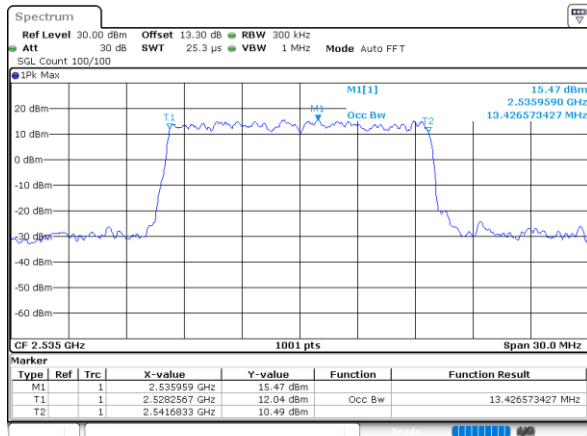
Date: 6,JAN,2018 22:13:19

## Lowest Channel / 15MHz / 16QAM



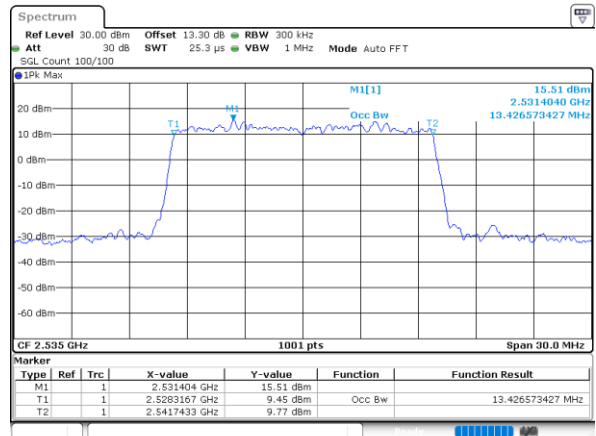
Date: 6,JAN,2018 22:13:29

## Middle Channel / 15MHz / QPSK



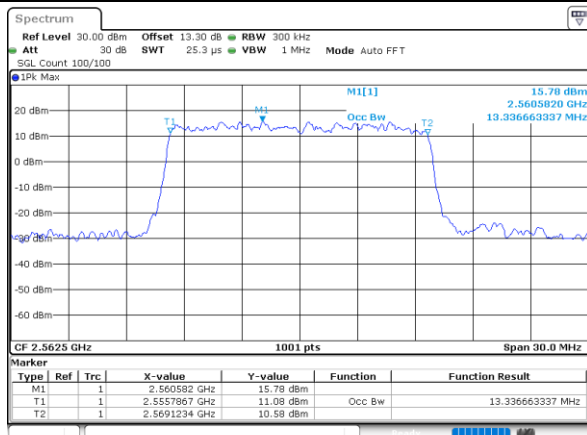
Date: 6,JAN,2018 22:20:17

## Middle Channel / 15MHz / 16QAM



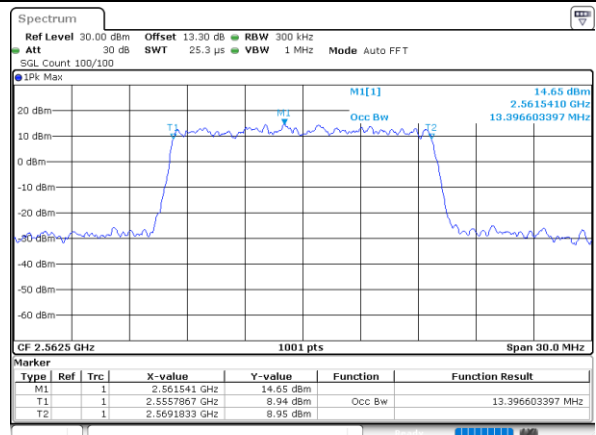
Date: 6,JAN,2018 22:20:26

## Highest Channel / 15MHz / QPSK



Date: 6,JAN,2018 22:22:41

## Highest Channel / 15MHz / 16QAM

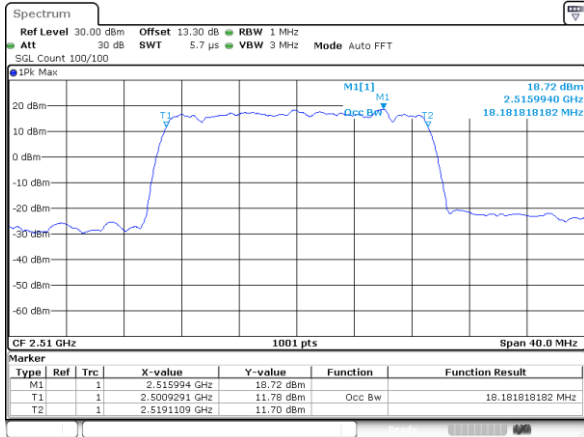


Date: 6,JAN,2018 22:22:51

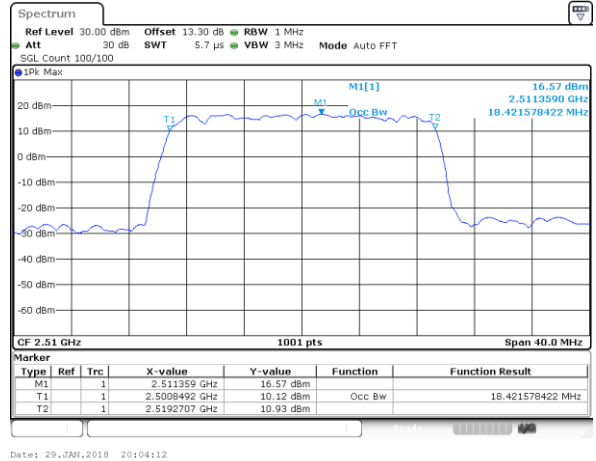


## LTE Band 7

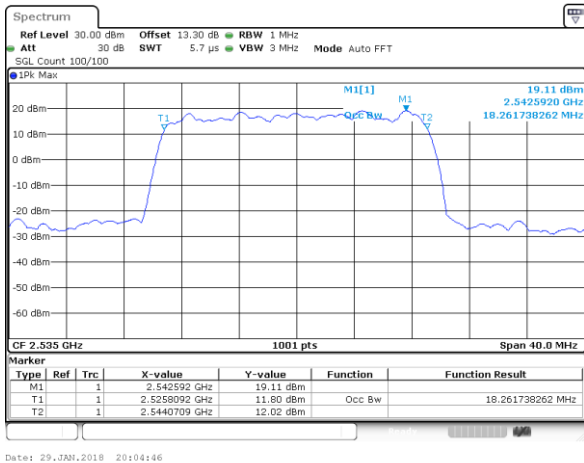
## Lowest Channel / 20MHz / QPSK



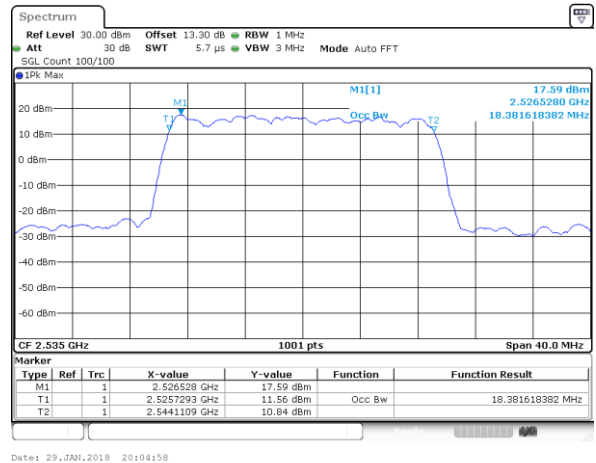
## Lowest Channel / 20MHz / 16QAM



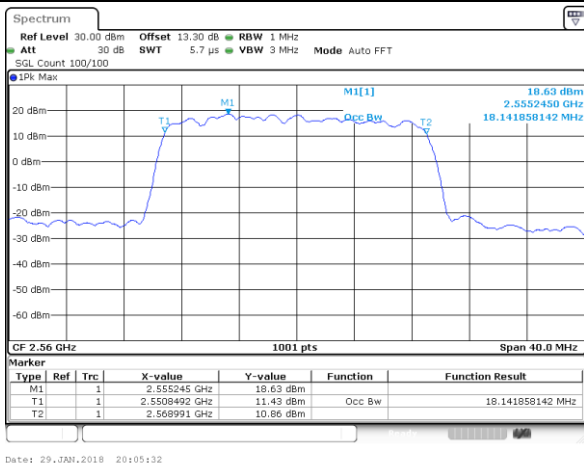
## Middle Channel / 20MHz / QPSK



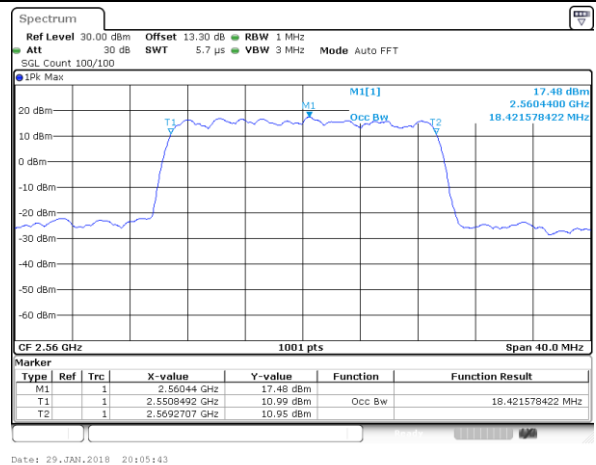
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM



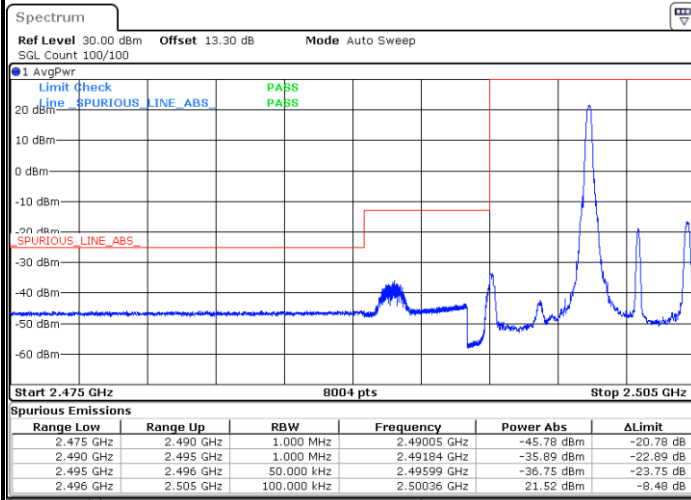


## **Conducted Band Edge**

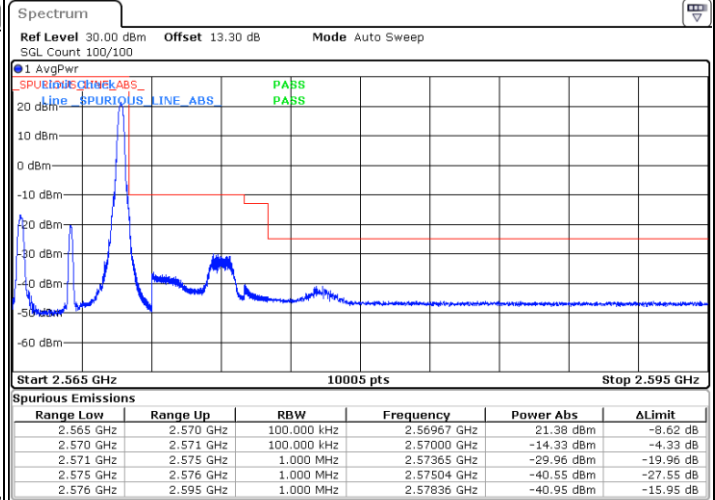


## LTE Band 7 / 5MHz / QPSK

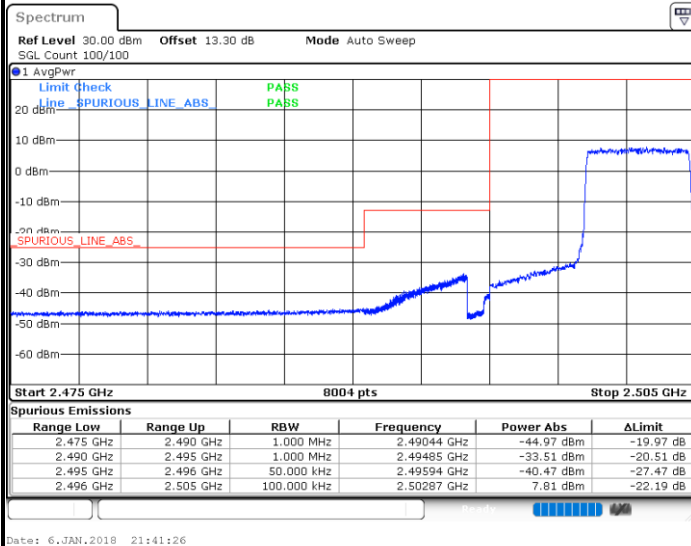
## Lowest Band Edge / 1 RB



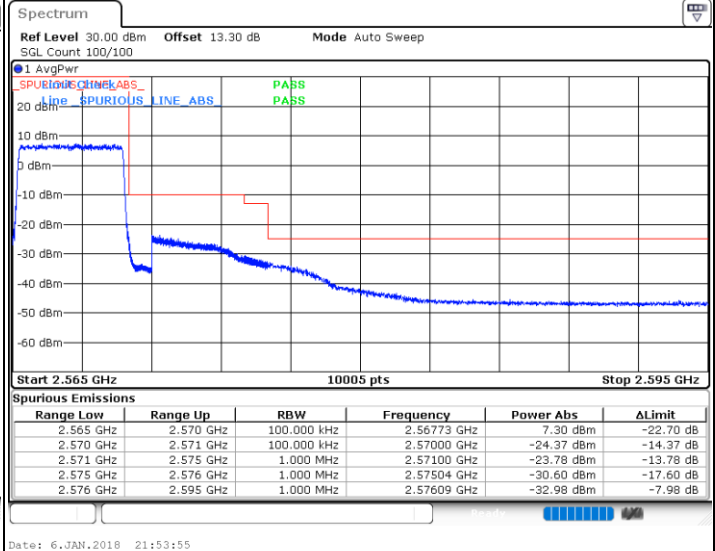
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



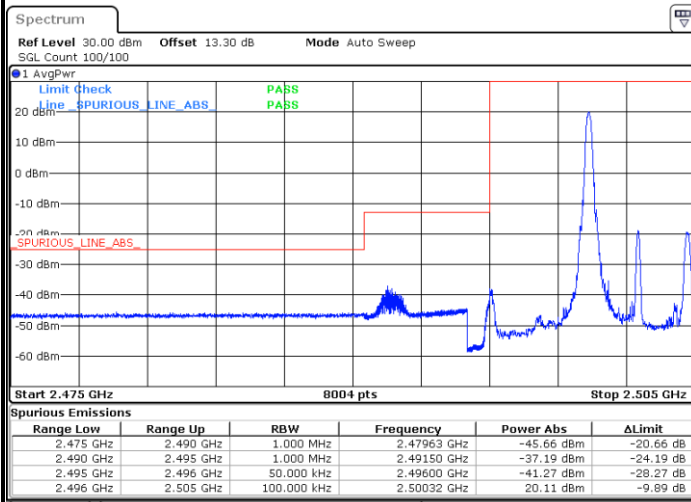
## Highest Band Edge / Full RB



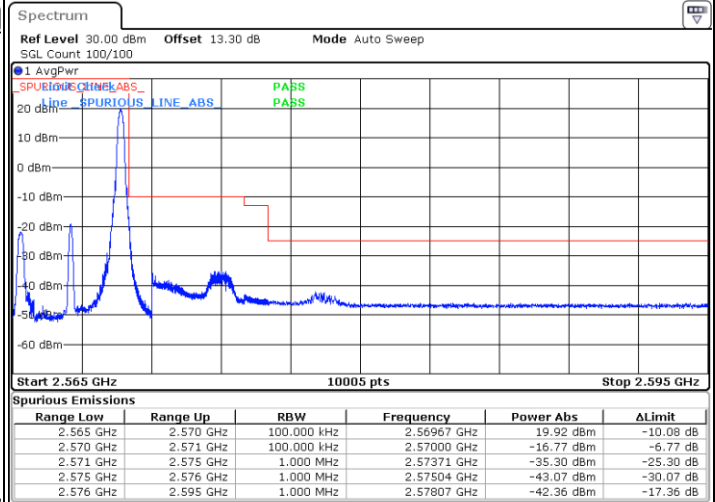


## LTE Band 7 / 5MHz / 16QAM

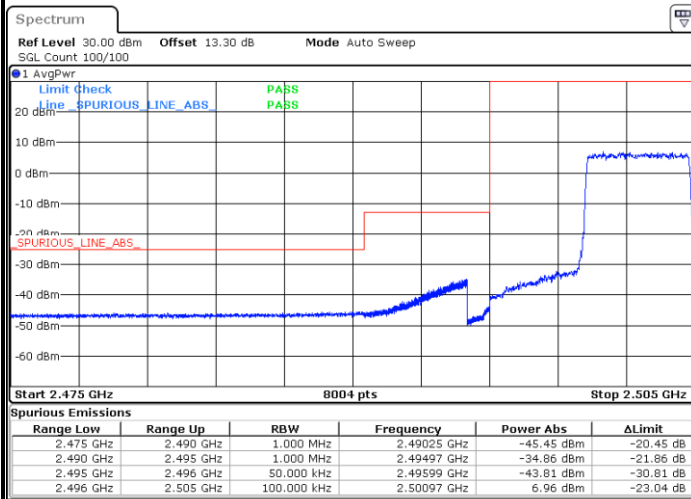
## Lowest Band Edge / 1 RB



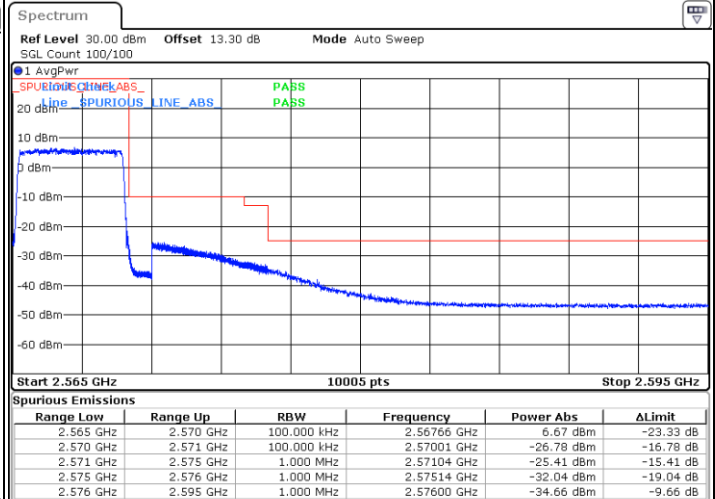
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



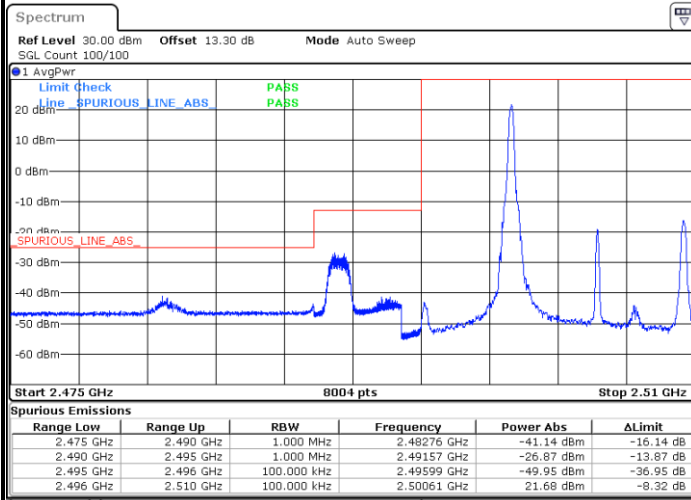
## Highest Band Edge / Full RB



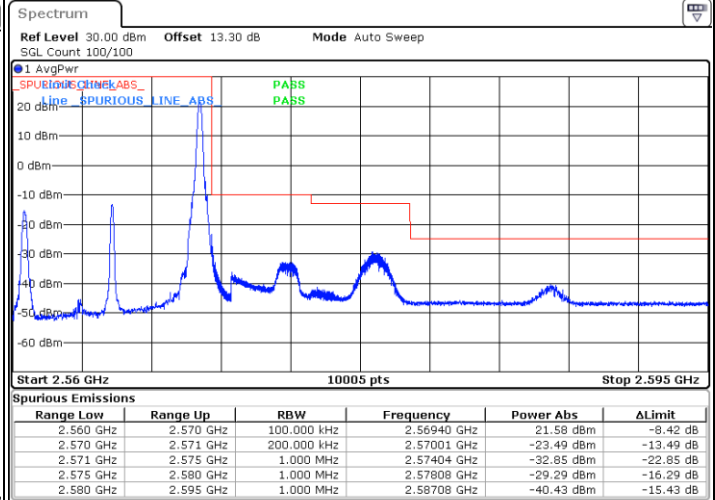


## LTE Band 7 / 10MHz / QPSK

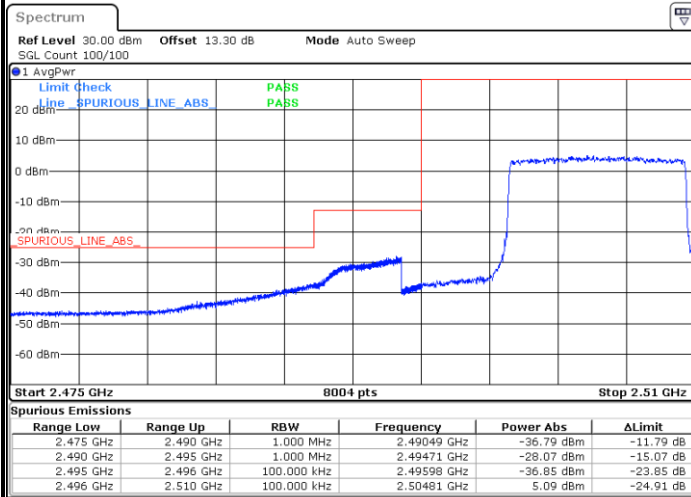
## Lowest Band Edge / 1 RB



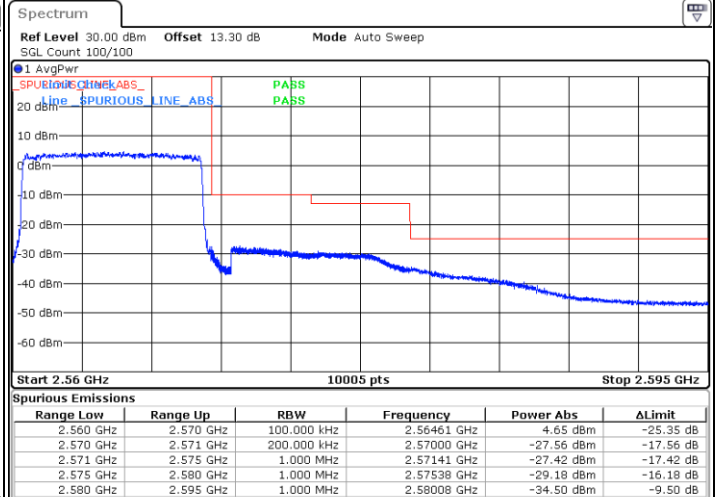
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



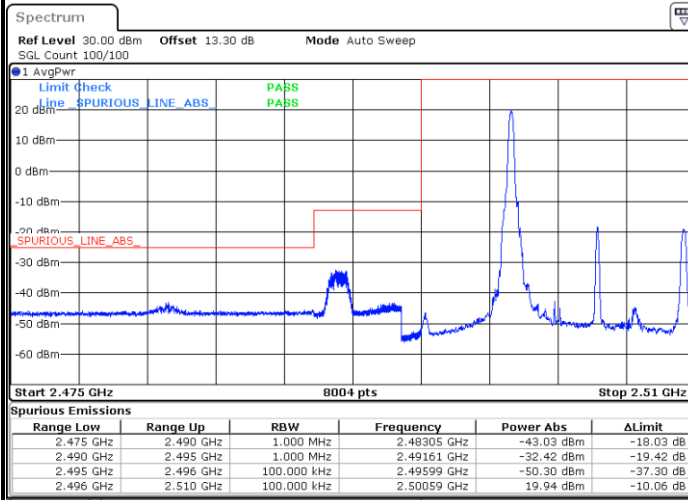
## Highest Band Edge / Full RB



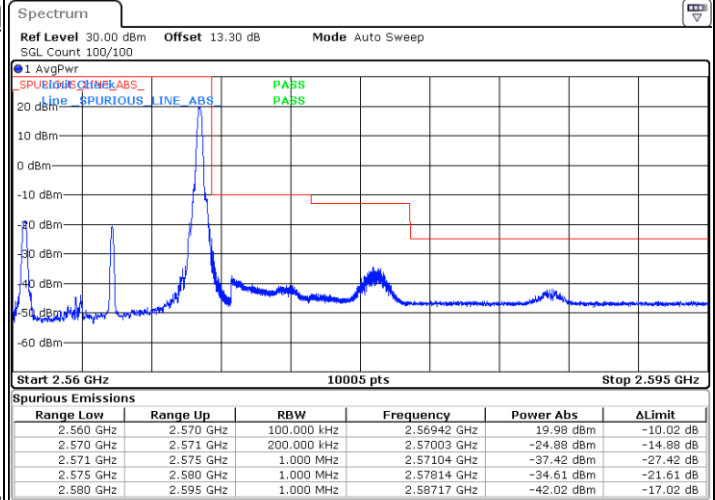


## LTE Band 7 / 10MHz / 16QAM

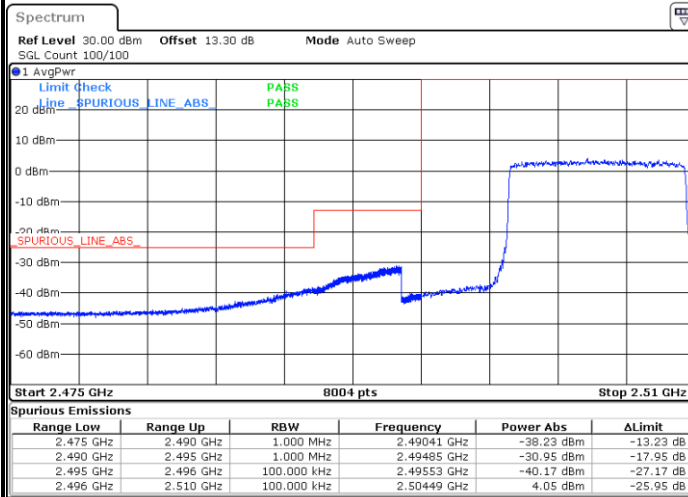
## Lowest Band Edge / 1 RB



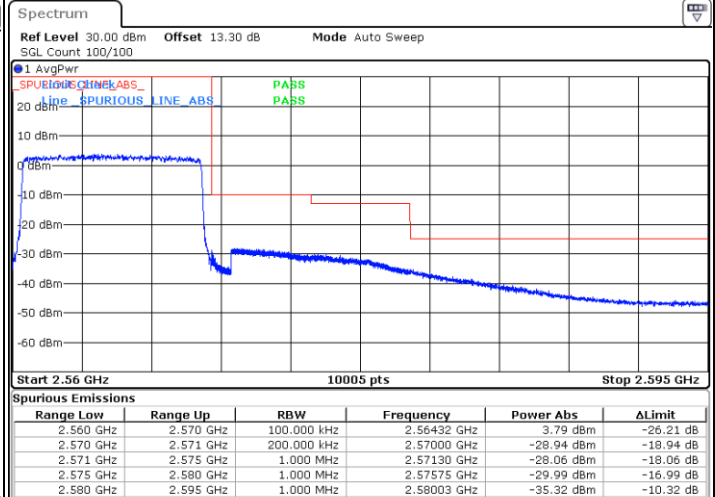
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



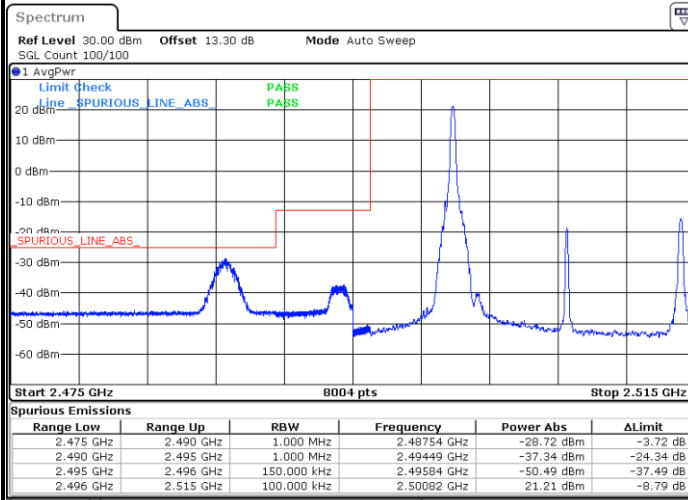
## Highest Band Edge / Full RB



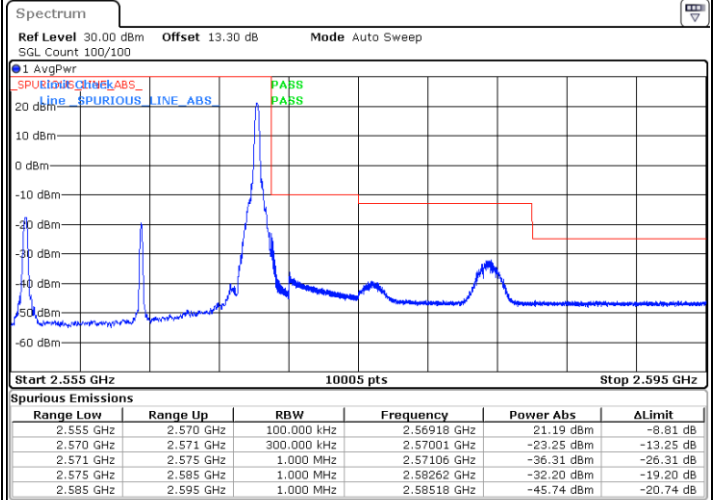


## LTE Band 7 / 15MHz / QPSK

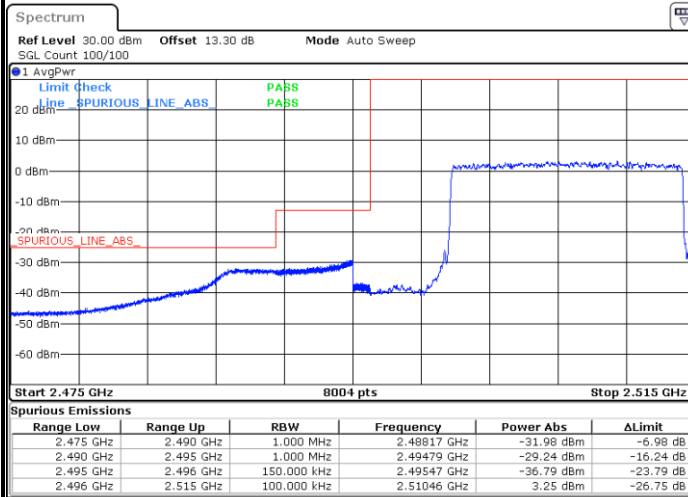
## Lowest Band Edge / 1 RB



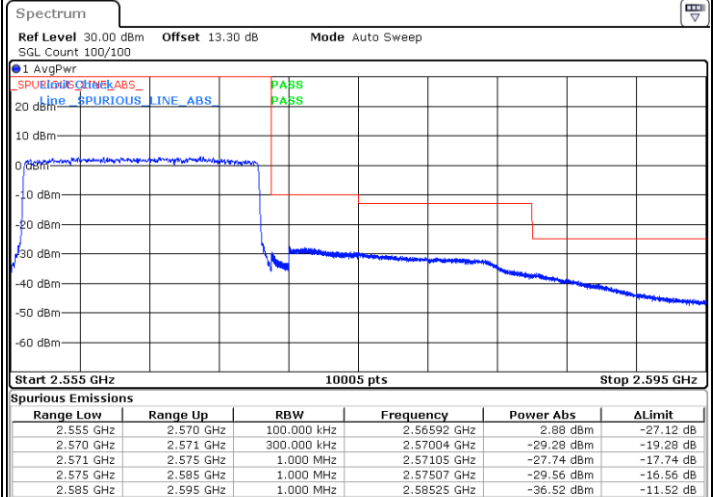
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



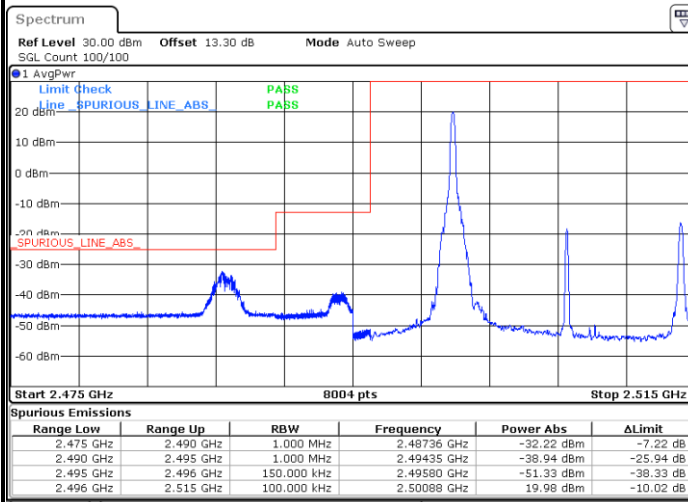
## Highest Band Edge / Full RB



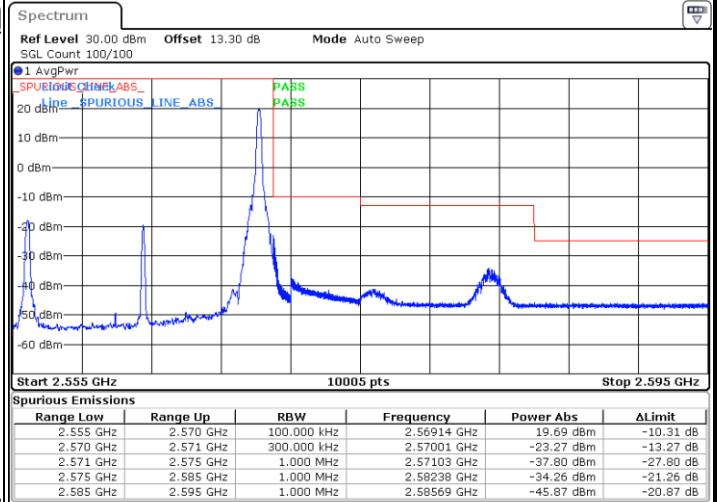


## LTE Band 7 / 15MHz / 16QAM

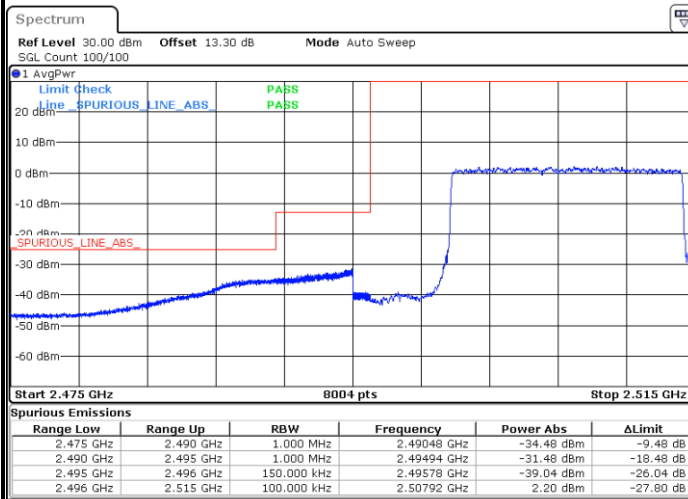
## Lowest Band Edge / 1 RB



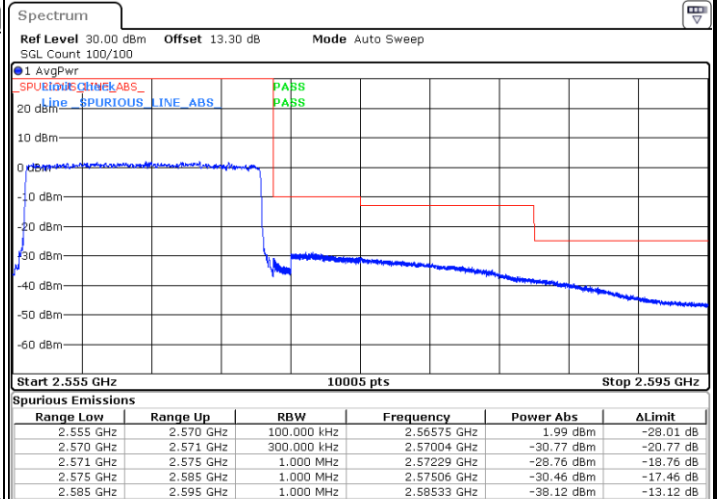
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



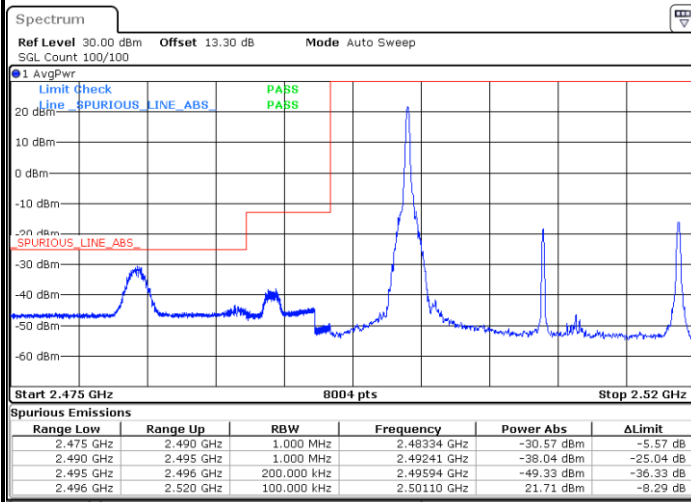
## Highest Band Edge / Full RB



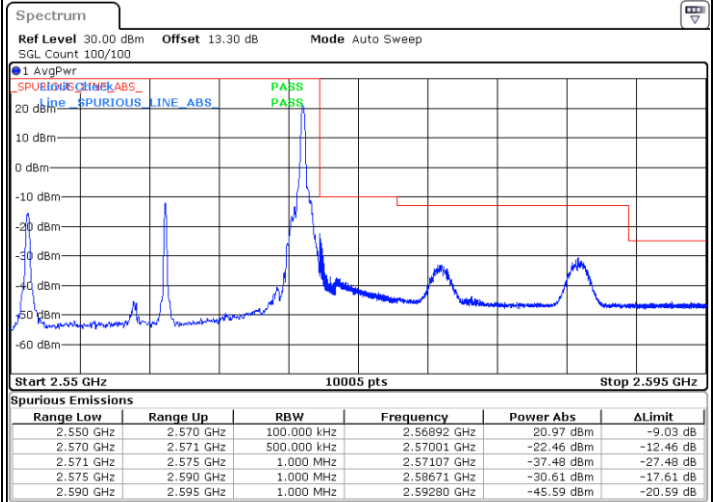


## LTE Band 7 / 20MHz / QPSK

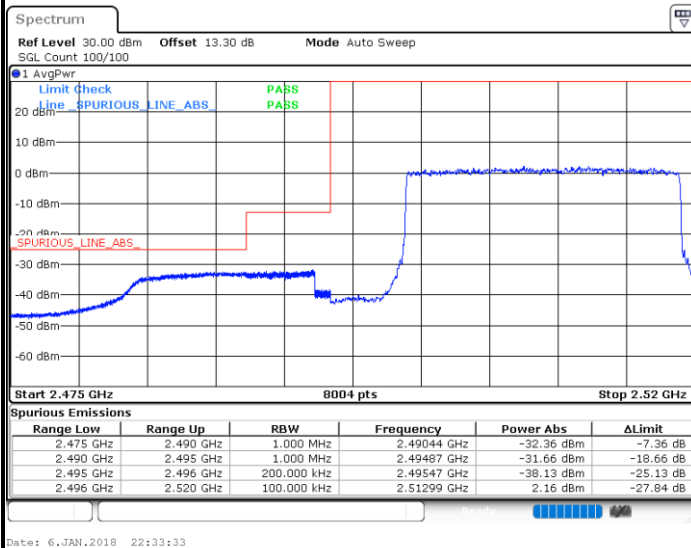
## Lowest Band Edge / 1 RB



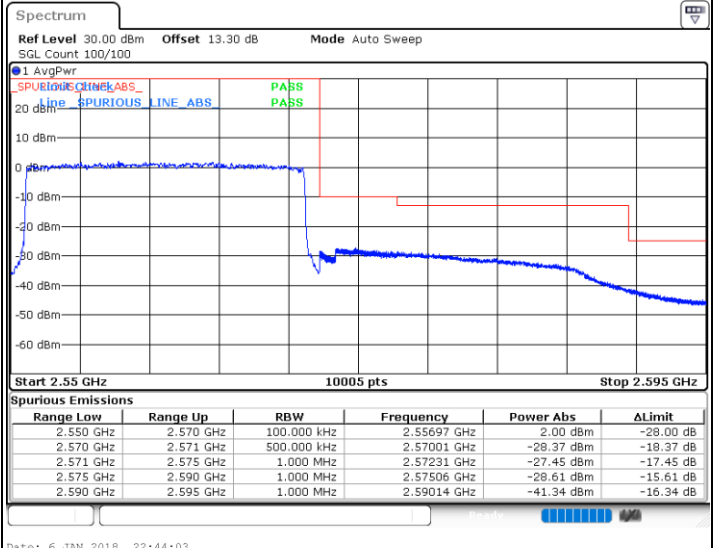
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



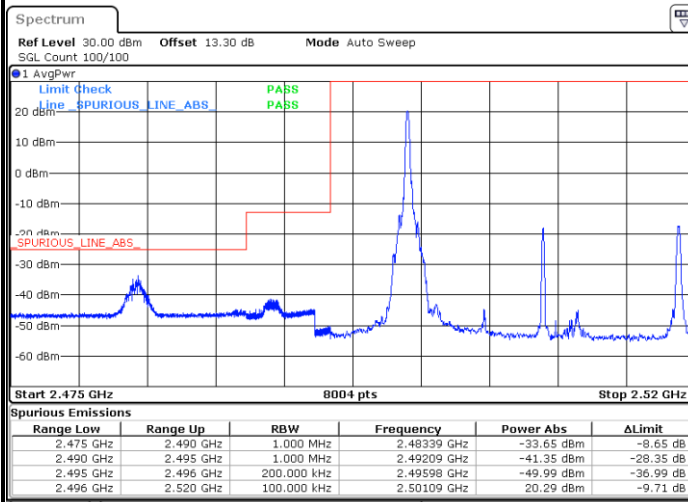
## Highest Band Edge / Full RB



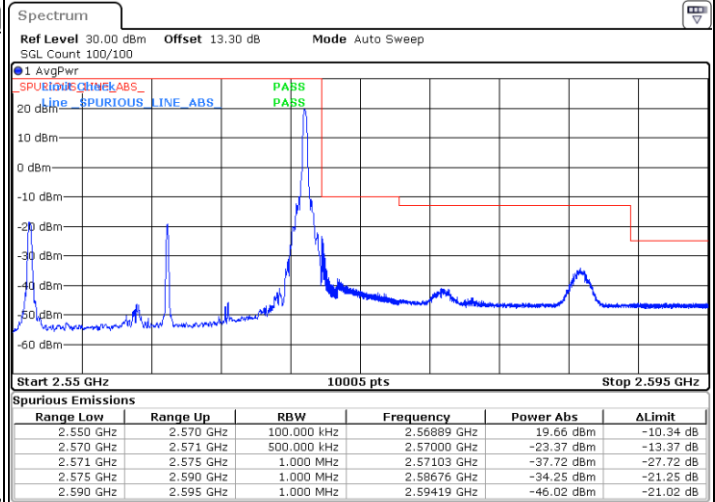


## LTE Band 7 / 20MHz / 16QAM

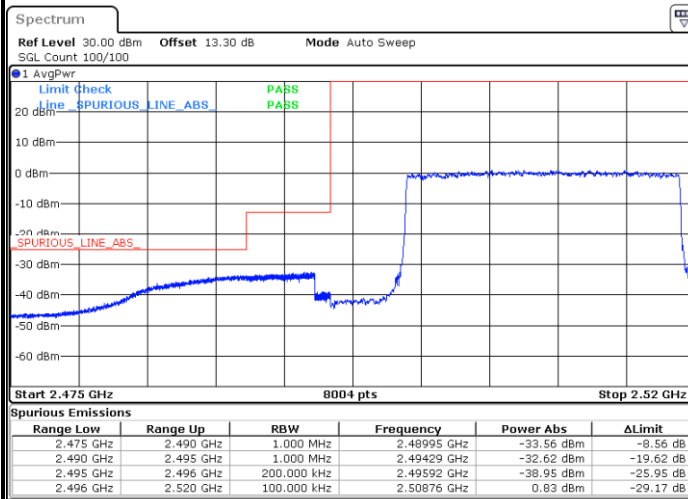
## Lowest Band Edge / 1 RB



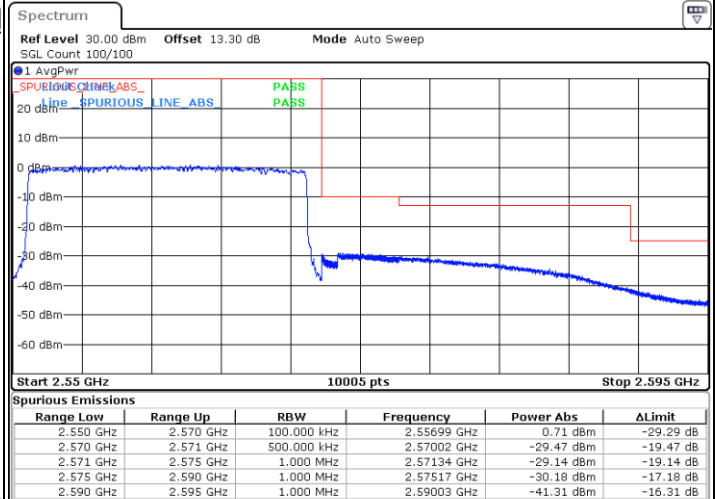
## Highest Band Edge / 1RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



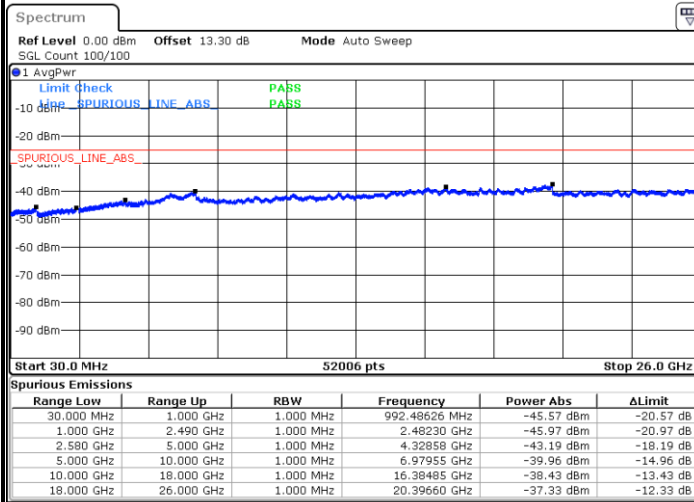


## **Conducted Spurious Emission**



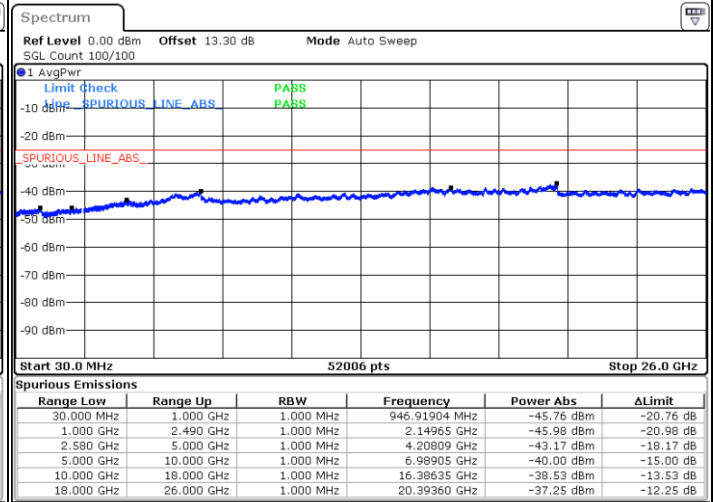
## LTE Band 7 / 5MHz

## Lowest Channel / QPSK



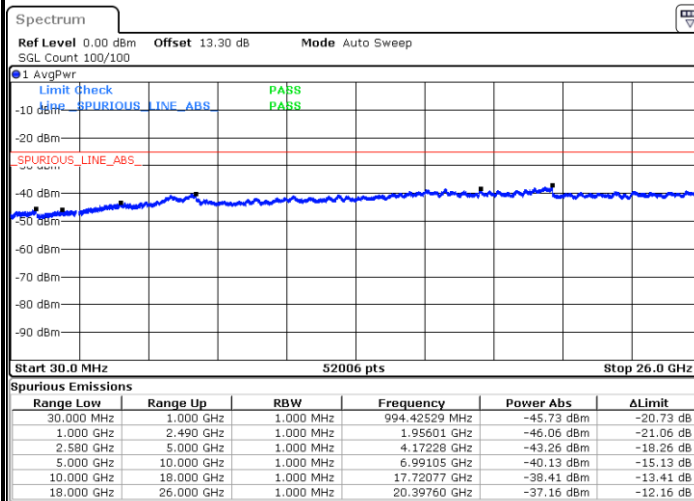
Date: 6.JAN.2018 21:43:27

## Lowest Channel / 16QAM



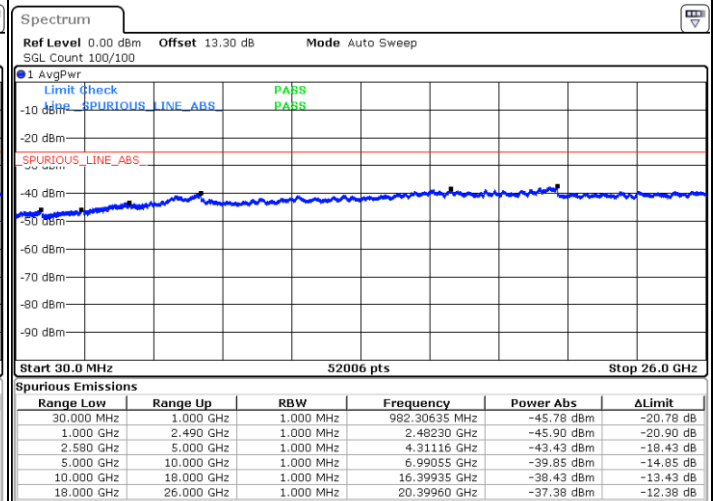
Date: 6.JAN.2018 21:44:19

## Middle Channel / QPSK



Date: 6.JAN.2018 21:48:59

## Middle Channel / 16QAM

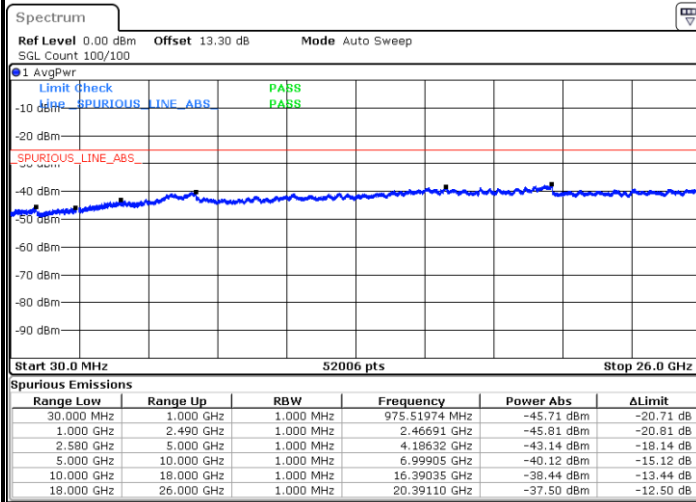


Date: 6.JAN.2018 21:49:51



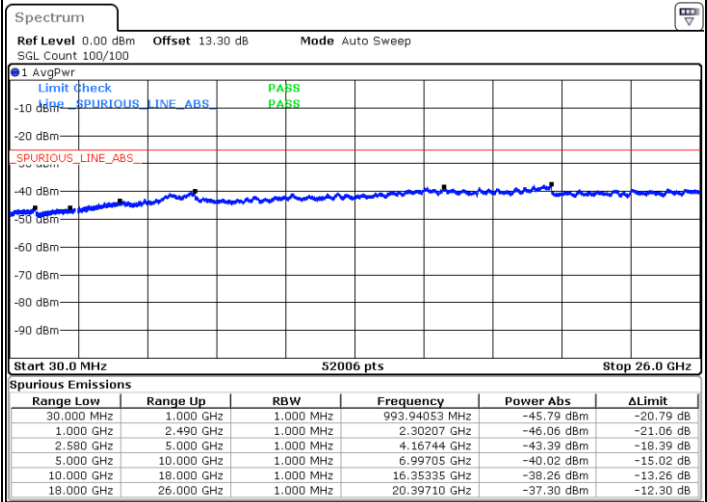
## LTE Band 7 / 5MHz

## Highest Channel / QPSK



Date: 6.JAN.2018 21:55:57

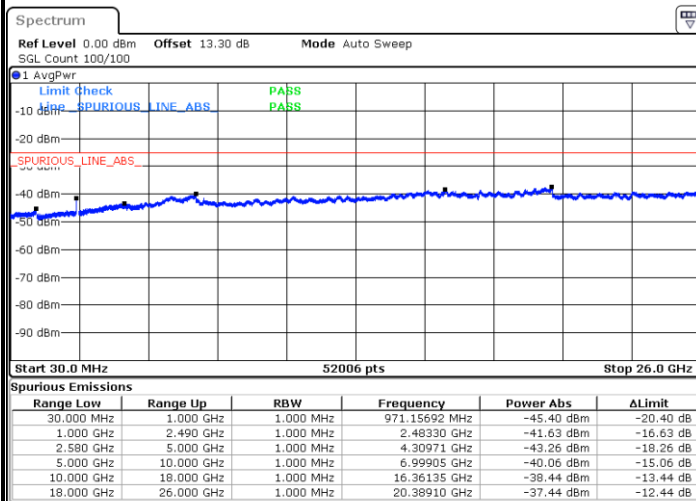
## Highest Channel / 16QAM



Date: 6.JAN.2018 21:56:49

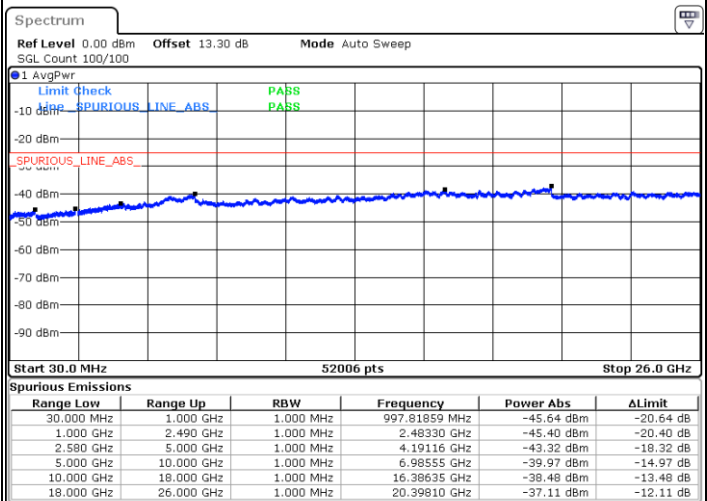
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK



Date: 6.JAN.2018 22:02:54

## Lowest Channel / 16QAM



Date: 6.JAN.2018 22:03:47