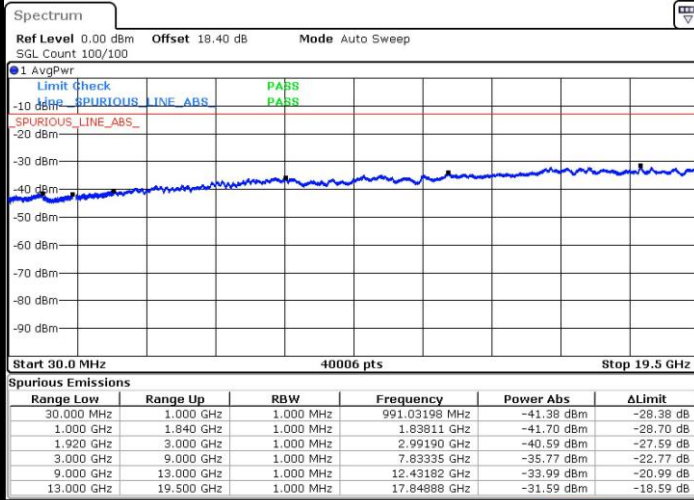




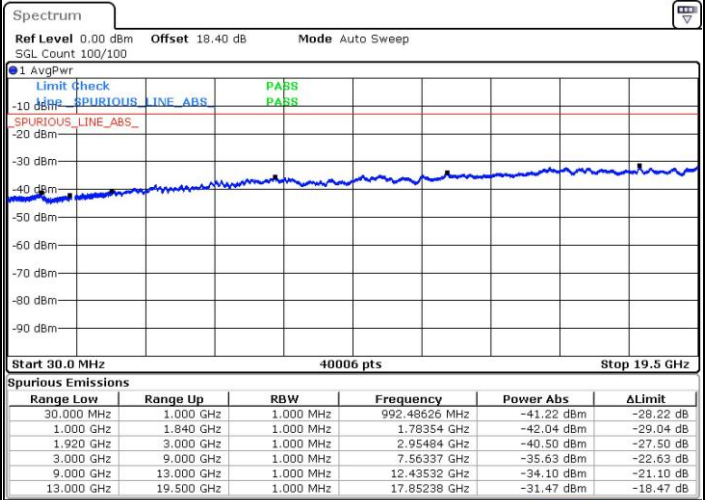
## LTE Band 25 / 15MHz

## Lowest Channel / 64QAM



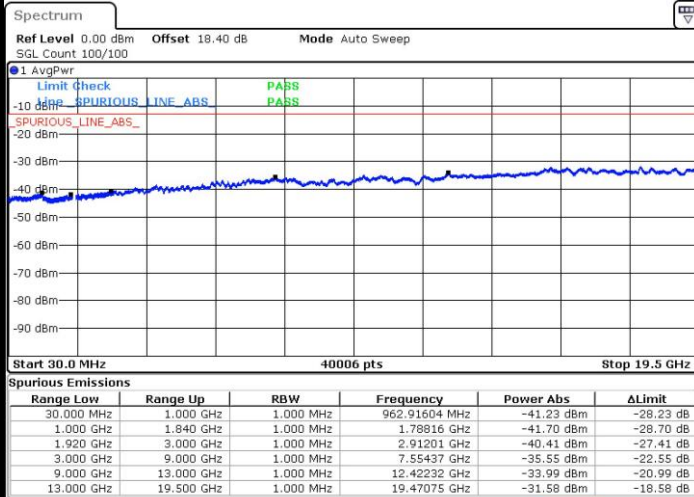
Date: 30 MAY 2018 21:34:39

## Middle Channel / 64QAM



Date: 30 MAY 2018 21:36:05

## Highest Channel / 64QAM

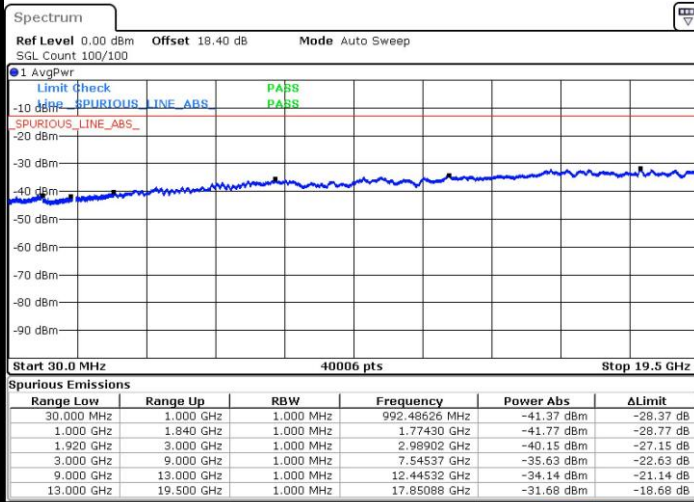


Date: 30 MAY 2018 21:39:57



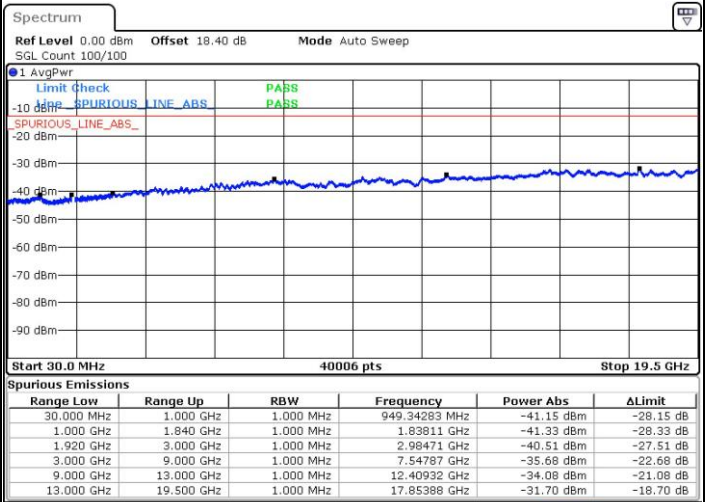
## LTE Band 25 / 20MHz

## Lowest Channel / 64QAM



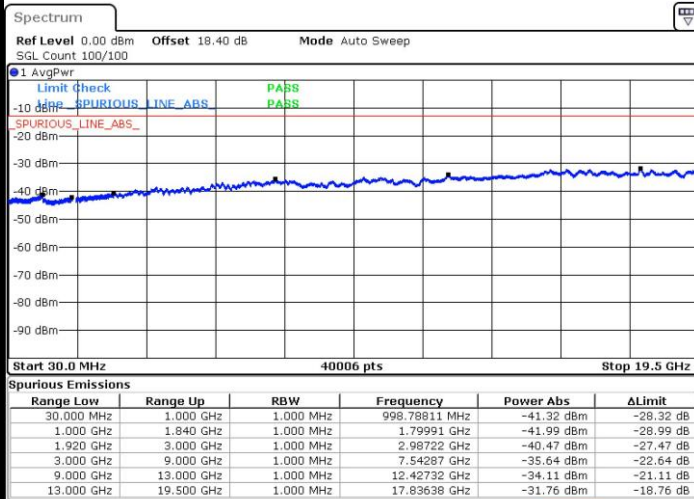
Date: 30 MAY 2018 21:44:48

## Middle Channel / 64QAM



Date: 30 MAY 2018 21:46:14

## Highest Channel / 64QAM



Date: 30 MAY 2018 21:50:05

## Frequency Stability

| Test Conditions  |                   | LTE Band 25 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0027                              | PASS    |
| 40               | Normal Voltage    | 0.0012                              |         |
| 30               | Normal Voltage    | 0.0019                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0054                              |         |
| 0                | Normal Voltage    | 0.0049                              |         |
| -10              | Normal Voltage    | 0.0016                              |         |
| -20              | Normal Voltage    | 0.0000                              |         |
| -30              | Normal Voltage    | 0.0053                              |         |
| 20               | Maximum Voltage   | 0.0065                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0006                              |         |

**Note:**

1. Normal Voltage =120 V. ; Battery End Point (BEP) =100 V. ; Maximum Voltage =240 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## LTE Band 41

<For 1x1 Tx Low Band>

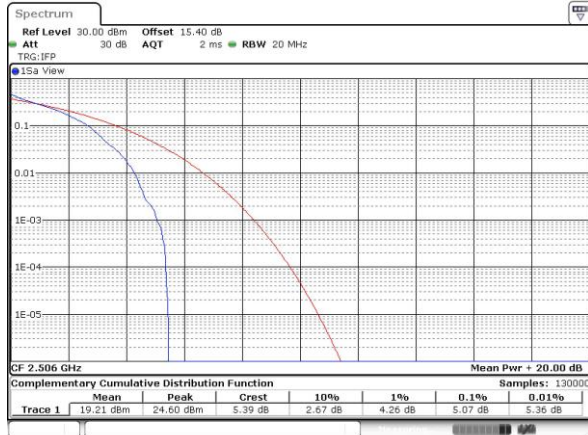
### Peak-to-Average Ratio

| Mode       | LTE Band 41 / 20MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 5.07                | 4.55    | 5.36  | 5.36    | PASS        |
| Middle CH  | 4.46                | 5.1     | 4.7   | 5.74    |             |
| Highest CH | 4.29                | 4.55    | 4.38  | 4.99    |             |
| Mode       | LTE Band 41 / 20MHz |         |       |         |             |
| Mod.       | 64QAM               |         |       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB |       |         | Result      |
| Lowest CH  | 5.33                | 5.36    | -     | -       | PASS        |
| Middle CH  | 4.61                | 5.74    | -     | -       |             |
| Highest CH | 4.29                | 4.96    | -     | -       |             |

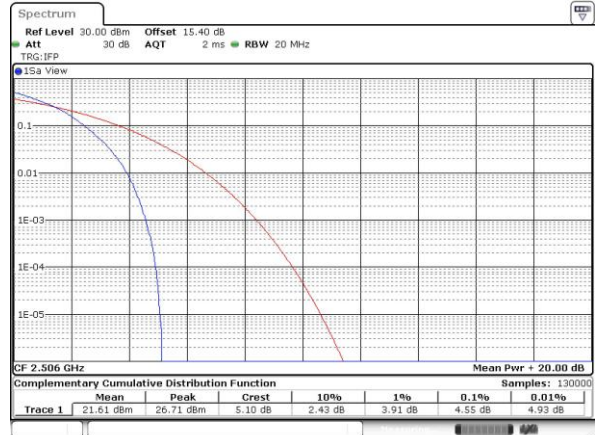


## LTE Band 41 / 20MHz / QPSK

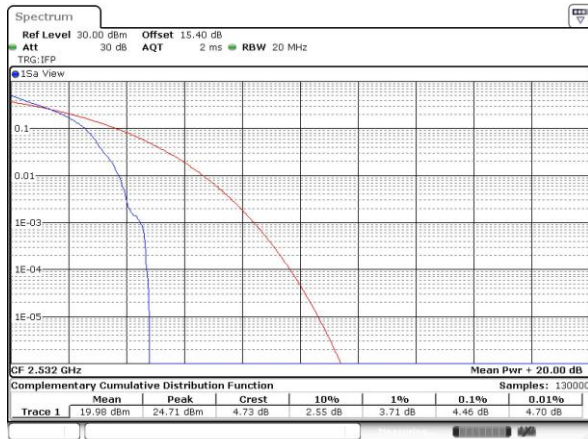
## Lowest Channel / 1RB



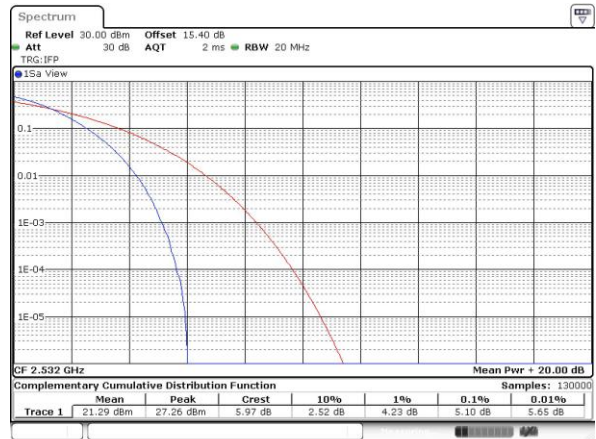
## Lowest Channel / Full RB



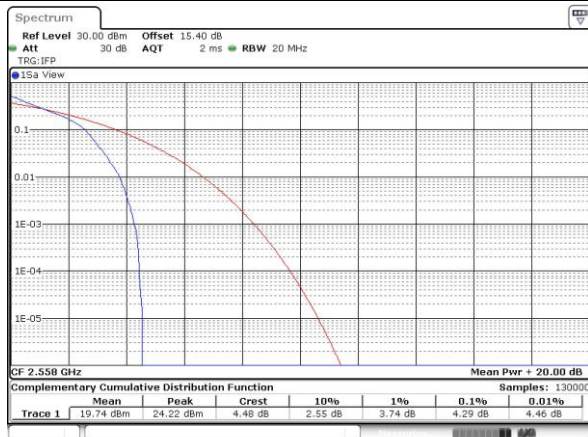
## Middle Channel / 1RB



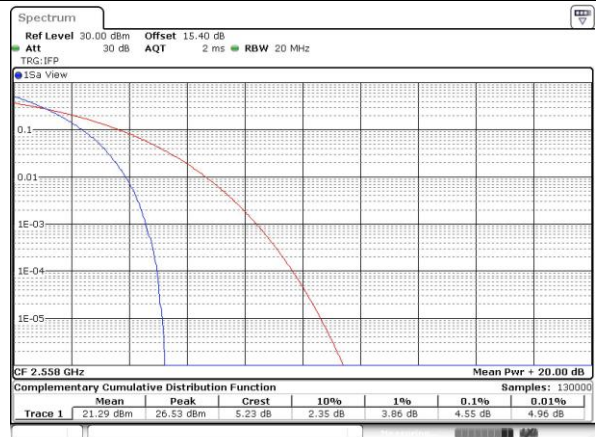
## Middle Channel / Full RB



## Highest Channel / 1RB



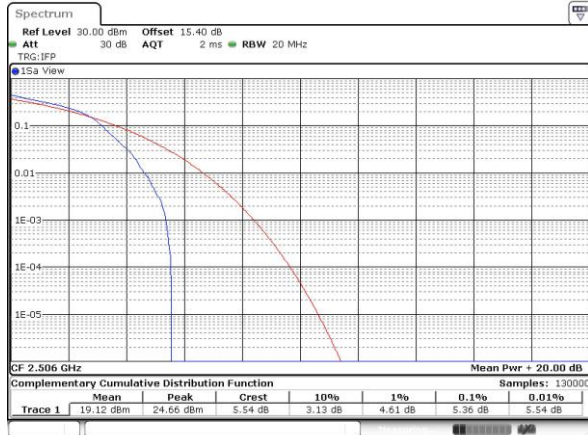
## Highest Channel / Full RB



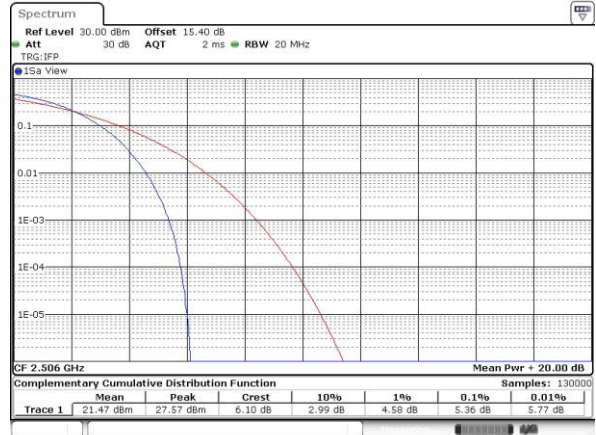


## LTE Band 41 / 20MHz / 16QAM

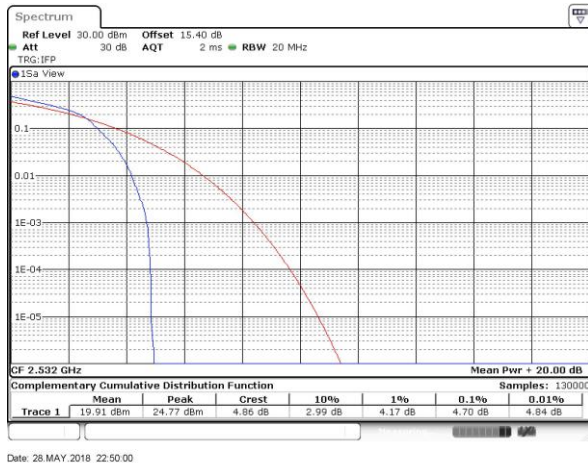
## Lowest Channel / 1RB



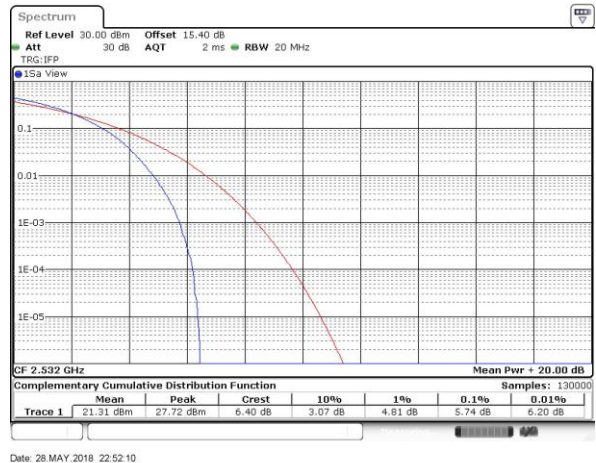
## Lowest Channel / Full RB



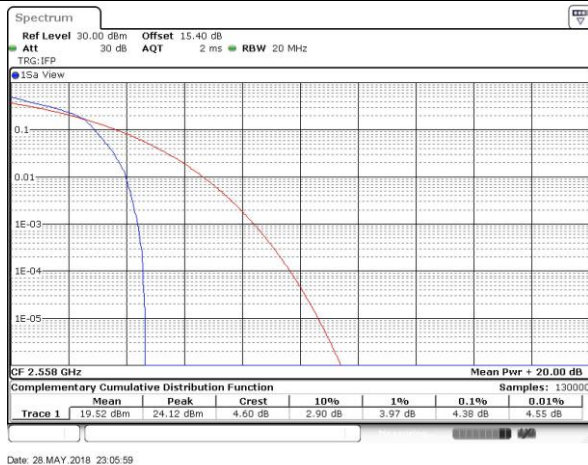
## Middle Channel / 1RB



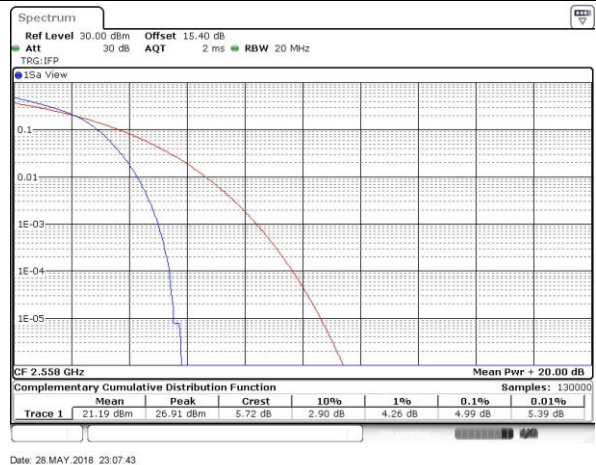
## Middle Channel / Full RB



## Highest Channel / 1RB



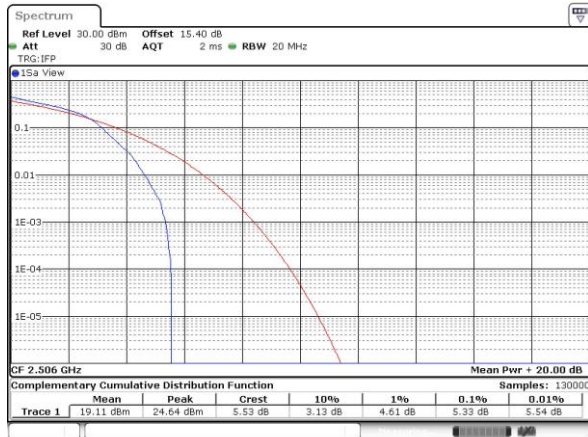
## Highest Channel / Full RB



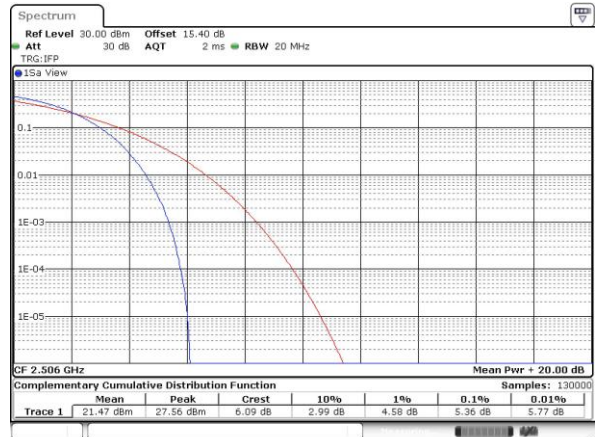


## LTE Band 41 / 20MHz / 64QAM

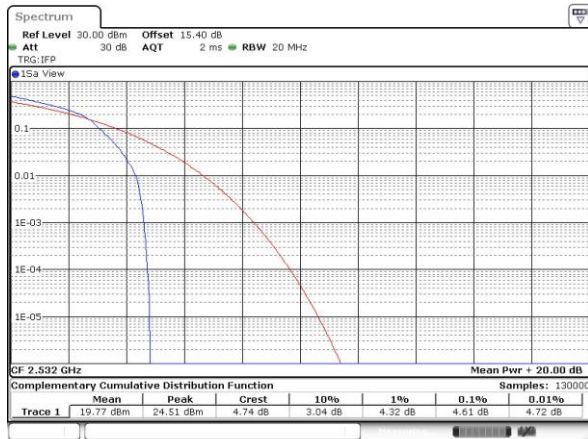
## Lowest Channel / 1RB



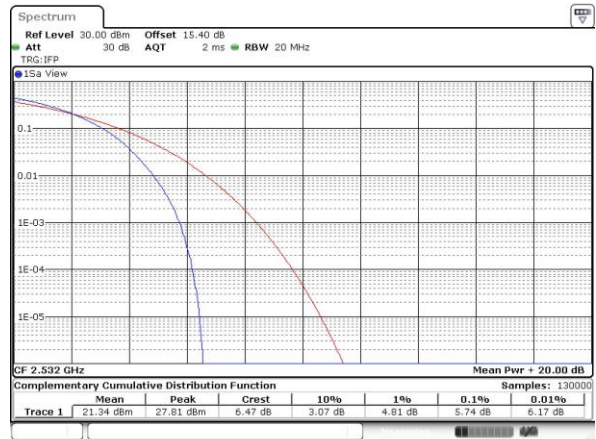
## Lowest Channel / Full RB



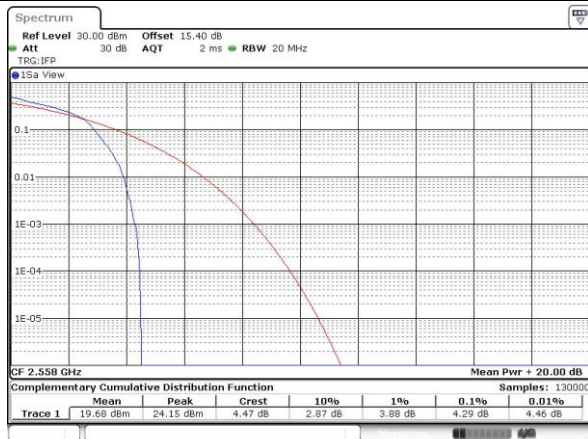
## Middle Channel / 1RB



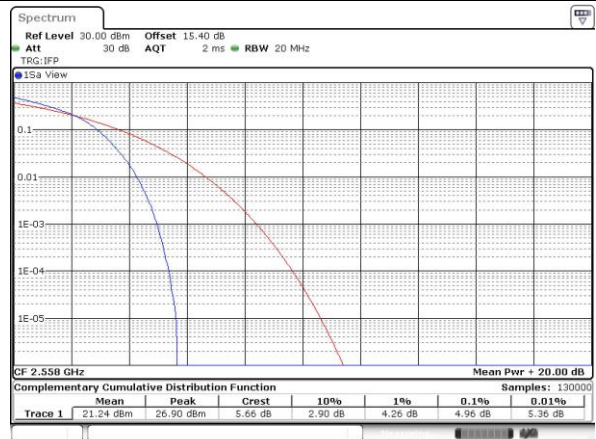
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



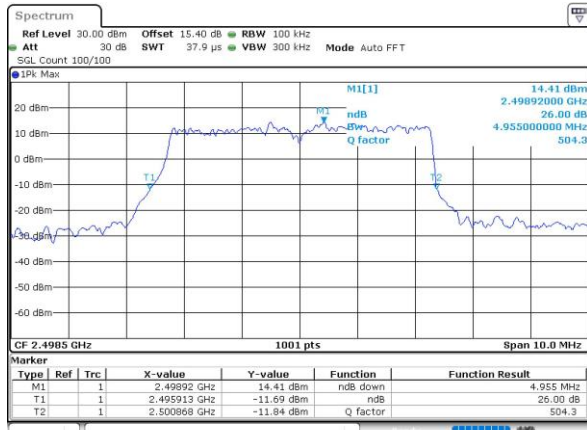
**26dB Bandwidth**

| Mode       | LTE Band 41 : 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  | -                          | -     | -     | -     | 4.96  | 4.99  | 9.65  | 9.95  | 14.27 | 14.15 | 20.10 | 19.94 |
| Middle CH  | -                          | -     | -     | -     | 5.20  | 4.90  | 9.95  | 9.79  | 14.15 | 14.36 | 20.18 | 20.14 |
| Highest CH | -                          | -     | -     | -     | 5.12  | 5.18  | 9.95  | 10.05 | 14.42 | 14.21 | 20.34 | 20.30 |
| Mode       | LTE Band 41 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                      |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                          | -     | -     | -     | 5.22  | -     | 9.89  | -     | 14.42 | -     | 19.98 | -     |
| Middle CH  | -                          | -     | -     | -     | 5.14  | -     | 9.87  | -     | 14.45 | -     | 20.10 | -     |
| Highest CH | -                          | -     | -     | -     | 5.01  | -     | 9.71  | -     | 14.45 | -     | 20.46 | -     |

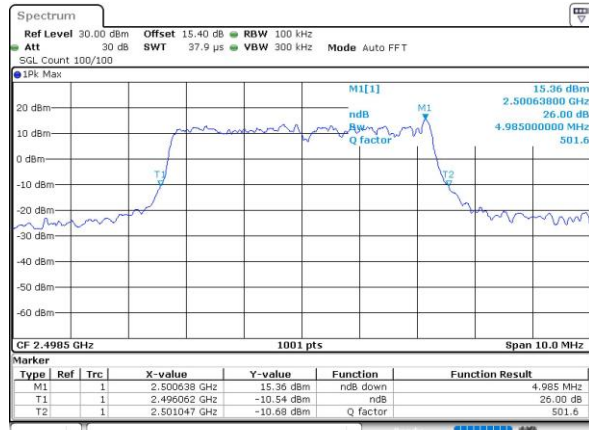


## LTE Band 41

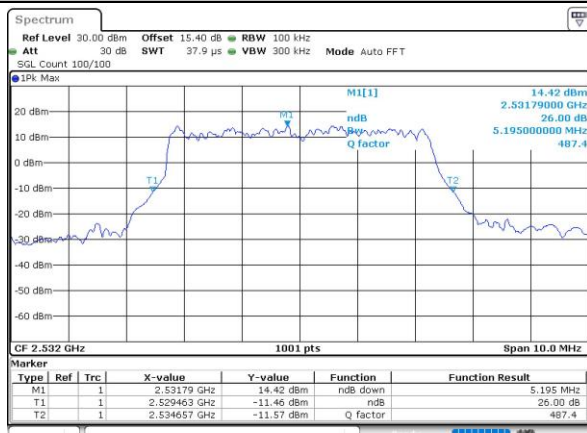
## Lowest Channel / 5MHz / QPSK



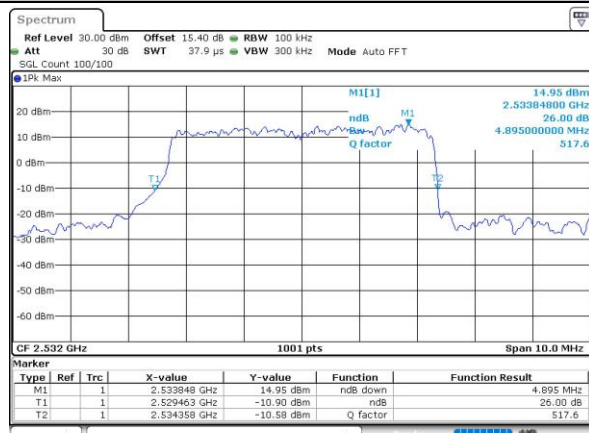
## Lowest Channel / 5MHz / 16QAM



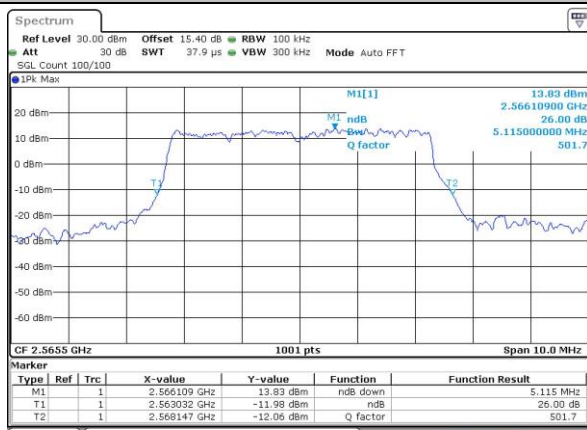
## Middle Channel / 5MHz / QPSK



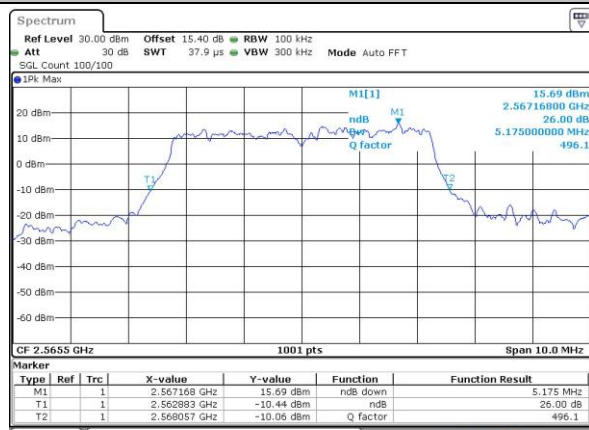
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



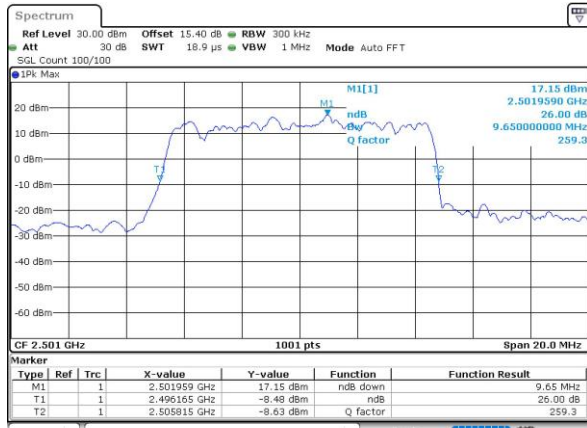
## Highest Channel / 5MHz / 16QAM





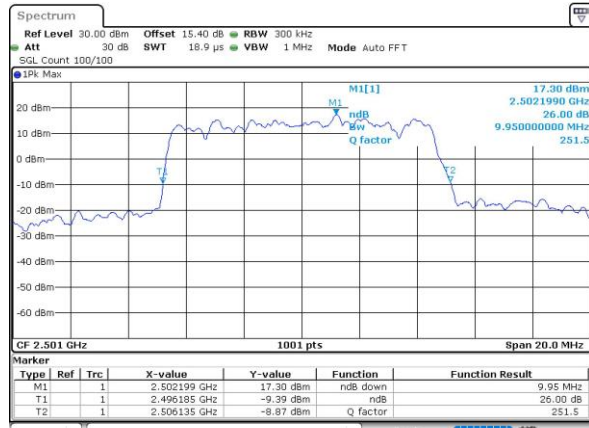
## LTE Band 41

## Lowest Channel / 10MHz / QPSK



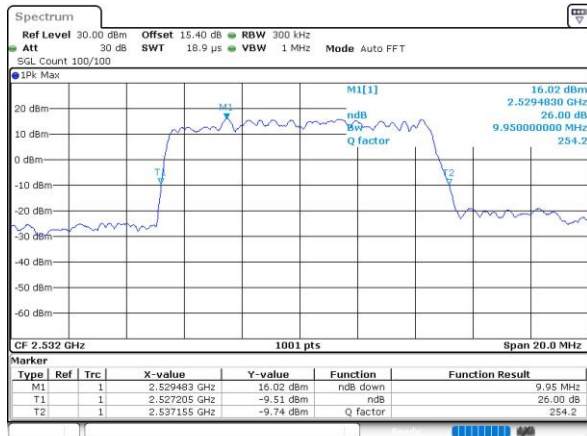
Date: 28.MAY.2018 20:55:32

## Lowest Channel / 10MHz / 16QAM



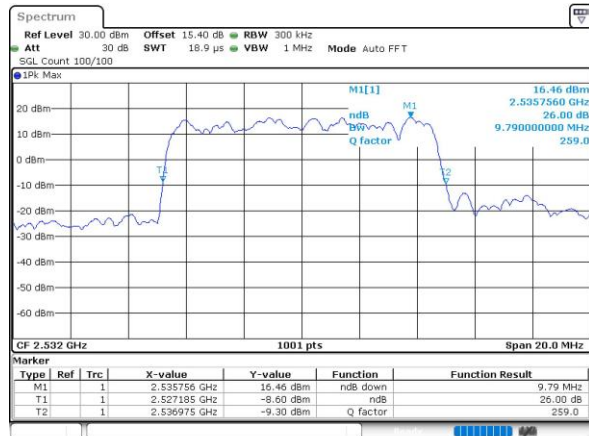
Date: 28.MAY.2018 20:56:13

## Middle Channel / 10MHz / QPSK



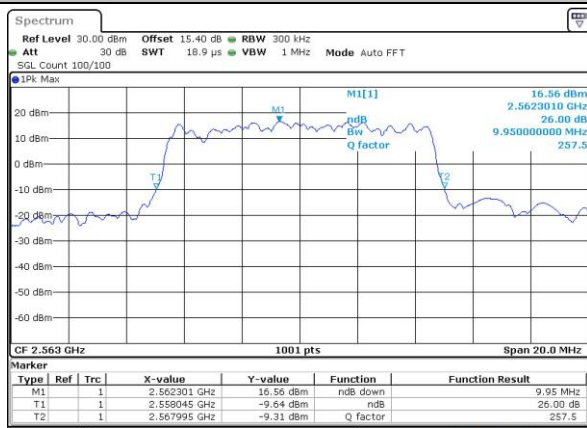
Date: 28.MAY.2018 21:03:10

## Middle Channel / 10MHz / 16QAM



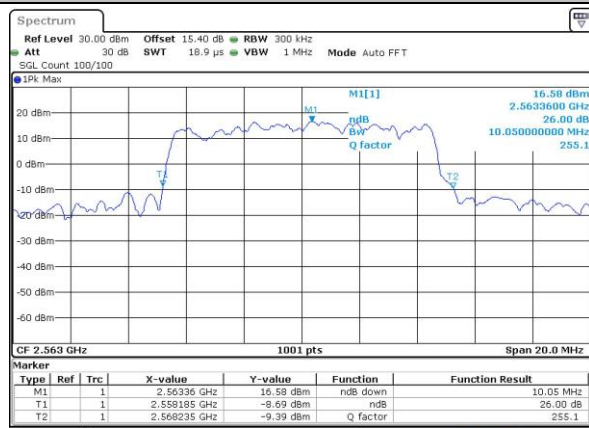
Date: 28.MAY.2018 21:03:50

## Highest Channel / 10MHz / QPSK



Date: 28.MAY.2018 21:17:54

## Highest Channel / 10MHz / 16QAM

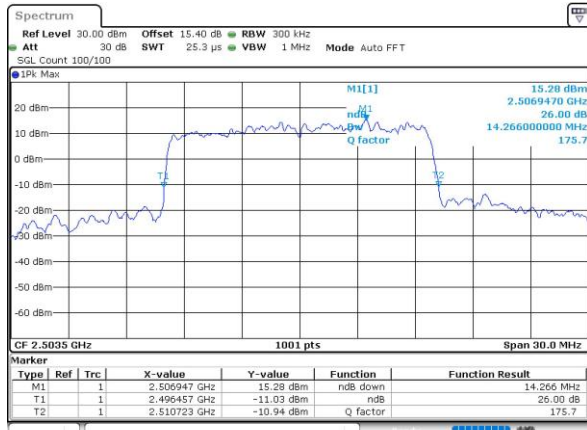


Date: 28.MAY.2018 21:18:26



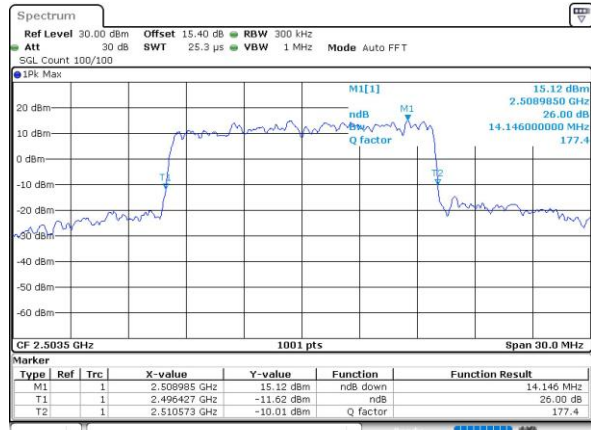
## LTE Band 41

## Lowest Channel / 15MHz / QPSK



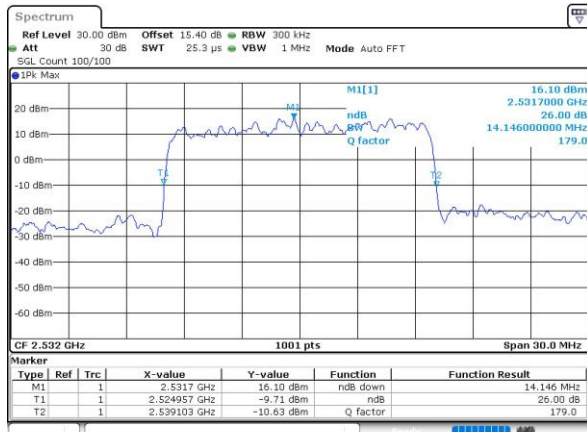
Date: 28.MAY.2018 21:40:39

## Lowest Channel / 15MHz / 16QAM



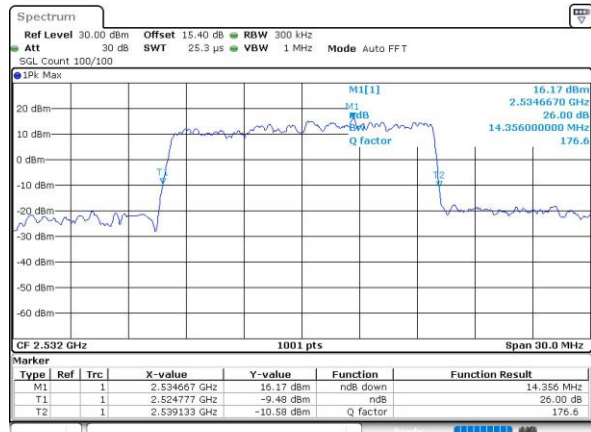
Date: 28.MAY.2018 21:40:59

## Middle Channel / 15MHz / QPSK



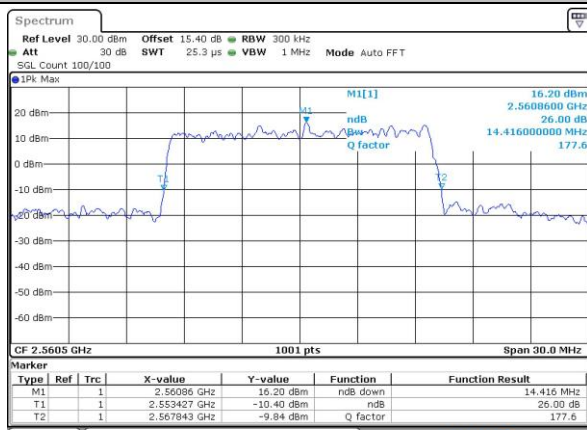
Date: 28.MAY.2018 21:44:28

## Middle Channel / 15MHz / 16QAM



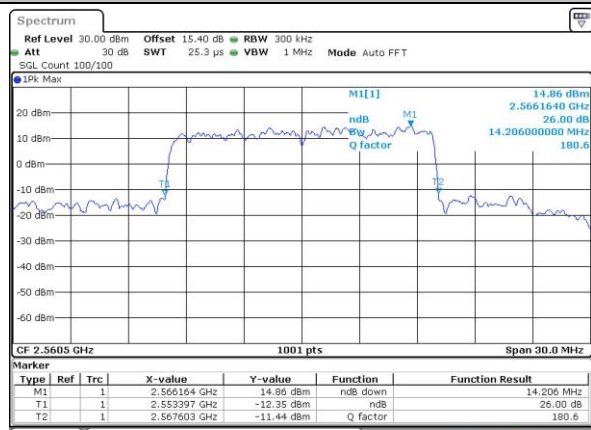
Date: 28.MAY.2018 21:44:47

## Highest Channel / 15MHz / QPSK



Date: 28.MAY.2018 21:54:53

## Highest Channel / 15MHz / 16QAM

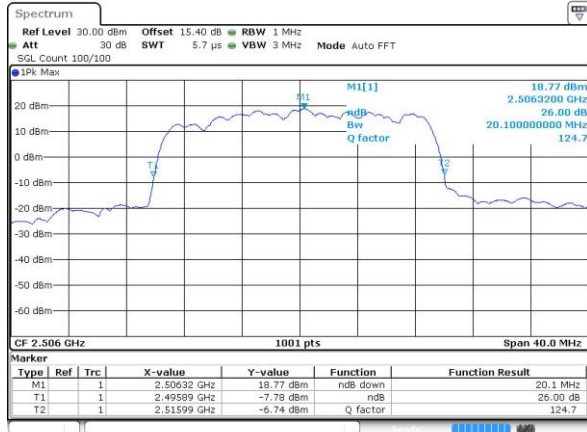


Date: 28.MAY.2018 21:55:34



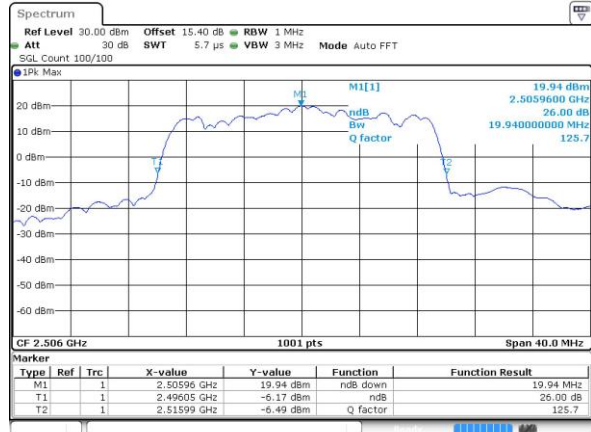
## LTE Band 41

## Lowest Channel / 20MHz / QPSK



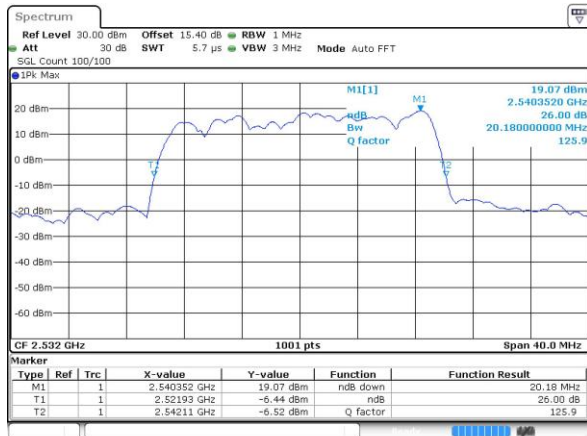
Date: 28 MAY 2018 22:39:18

## Lowest Channel / 20MHz / 16QAM



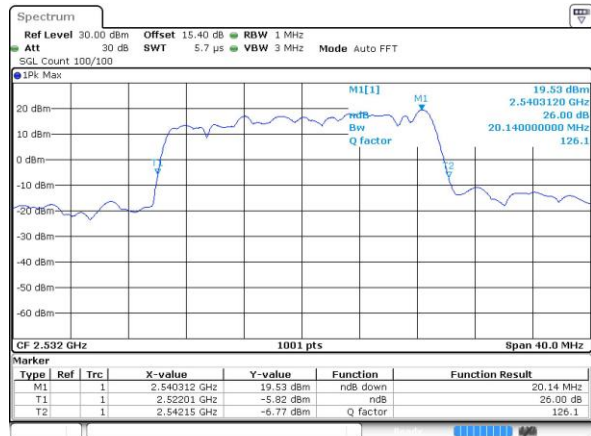
Date: 28 MAY 2018 22:40:02

## Middle Channel / 20MHz / QPSK



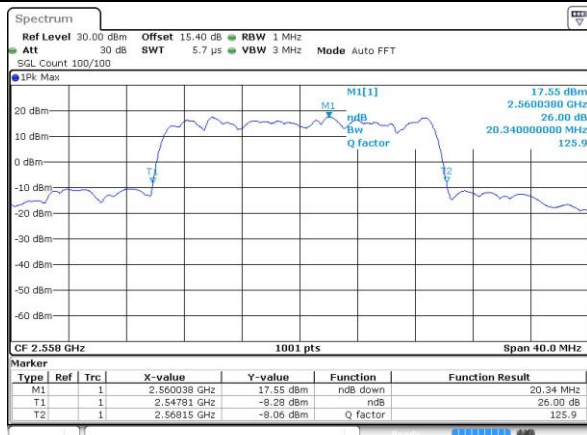
Date: 28 MAY 2018 22:53:37

## Middle Channel / 20MHz / 16QAM



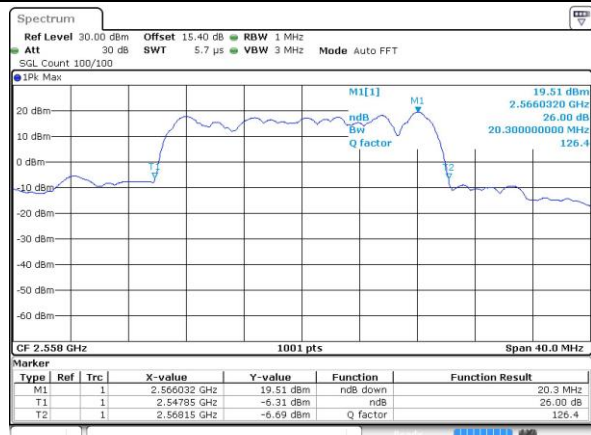
Date: 28 MAY 2018 22:54:48

## Highest Channel / 20MHz / QPSK



Date: 28 MAY 2018 23:08:48

## Highest Channel / 20MHz / 16QAM

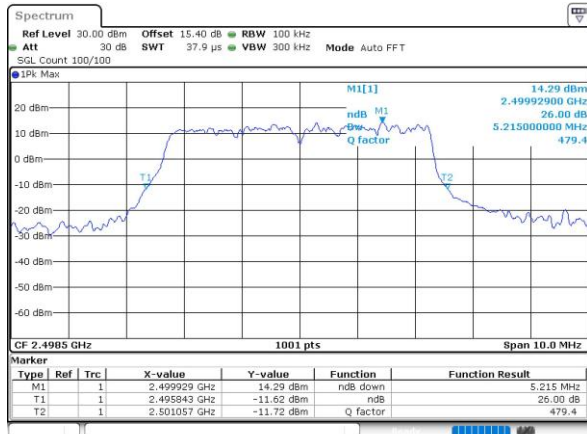


Date: 28 MAY 2018 23:09:25



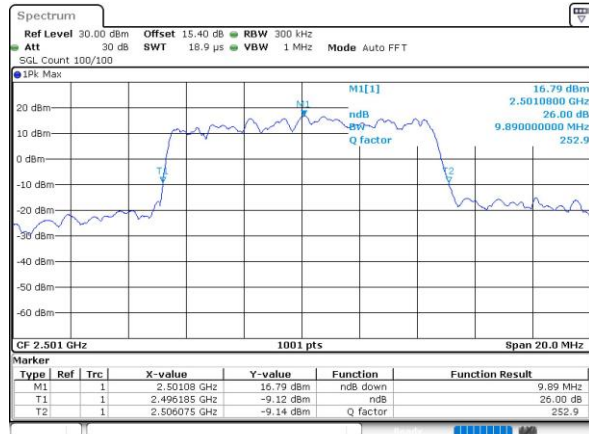
## LTE Band 41

## Lowest Channel / 5MHz / QPSK



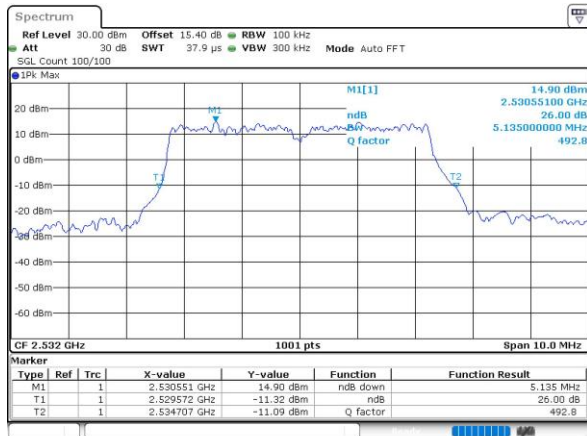
Date: 28.MAY.2018 19:21:18

## Lowest Channel / 10MHz / 16QAM



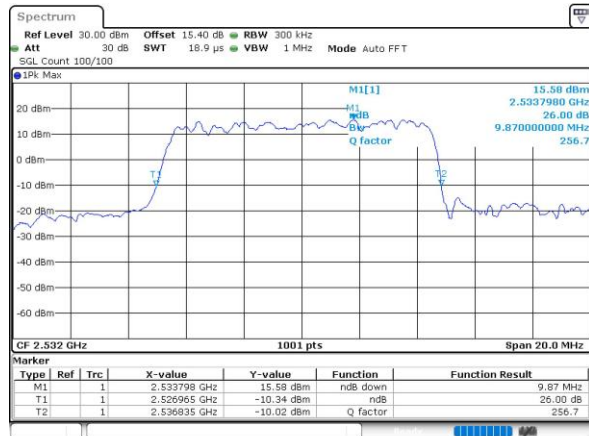
Date: 28.MAY.2018 20:15:33

## Middle Channel / 5MHz / QPSK



Date: 28.MAY.2018 20:14:28

## Middle Channel / 10MHz / 16QAM



Date: 28.MAY.2018 21:05:28

## Highest Channel / 5MHz / QPSK



Date: 28.MAY.2018 20:24:51

## Highest Channel / 10MHz / 16QAM

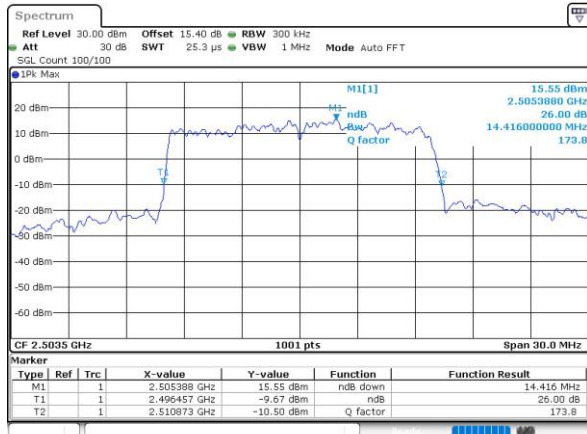


Date: 28.MAY.2018 21:18:44



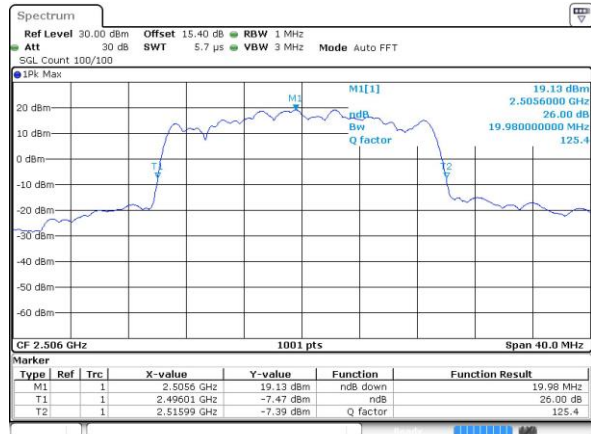
## LTE Band 41

## Lowest Channel / 15MHz / QPSK



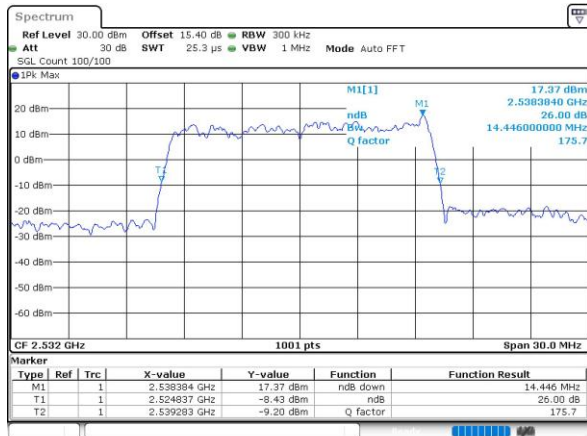
Date: 28.MAY.2018 21:41:17

## Lowest Channel / 20MHz / 16QAM



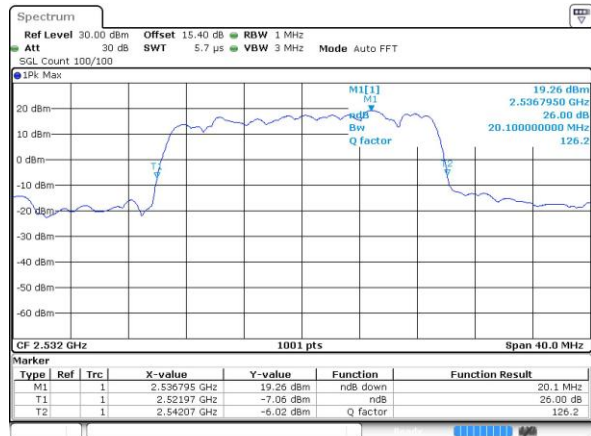
Date: 28.MAY.2018 22:38:56

## Middle Channel / 15MHz / QPSK



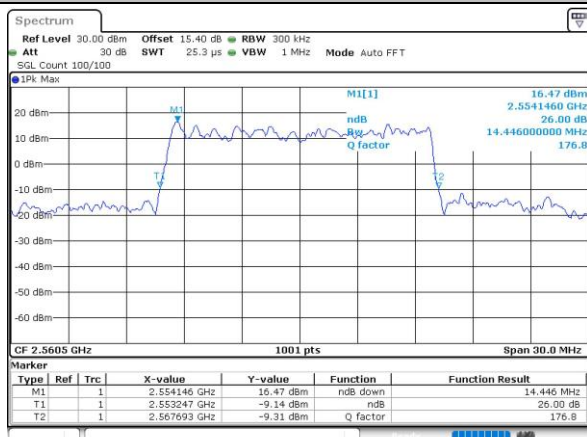
Date: 28.MAY.2018 21:45:02

## Middle Channel / 20MHz / 16QAM



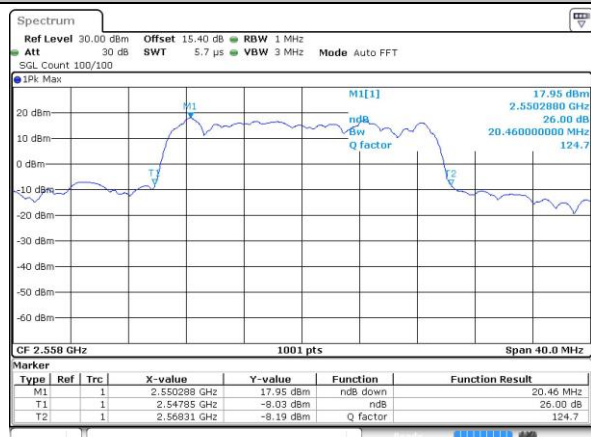
Date: 28.MAY.2018 22:55:12

## Highest Channel / 15MHz / QPSK



Date: 28.MAY.2018 21:55:57

## Highest Channel / 20MHz / 16QAM



Date: 28.MAY.2018 23:09:47

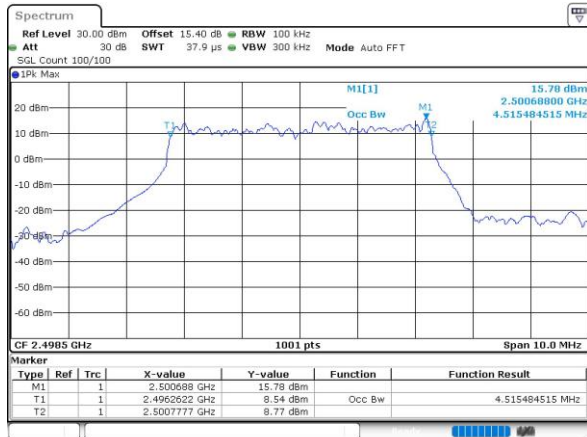
**Occupied Bandwidth**

| Mode       | LTE Band 41 : 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  | -                         | -     | -     | -     | 4.52  | 4.48  | 9.03  | 9.01  | 13.55 | 13.43 | 18.38 | 18.18 |
| Middle CH  | -                         | -     | -     | -     | 4.51  | 4.51  | 9.09  | 9.07  | 13.43 | 13.4  | 18.3  | 18.54 |
| Highest CH | -                         | -     | -     | -     | 4.5   | 4.5   | 9.09  | 9.07  | 13.49 | 13.49 | 18.5  | 18.5  |
| Mode       | LTE Band 41 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                         | -     | -     | -     | 4.46  | -     | 9.05  | -     | 13.34 | -     | 17.90 | -     |
| Middle CH  | -                         | -     | -     | -     | 4.49  | -     | 9.03  | -     | 13.55 | -     | 18.26 | -     |
| Highest CH | -                         | -     | -     | -     | 4.53  | -     | 9.07  | -     | 13.49 | -     | 18.70 | -     |

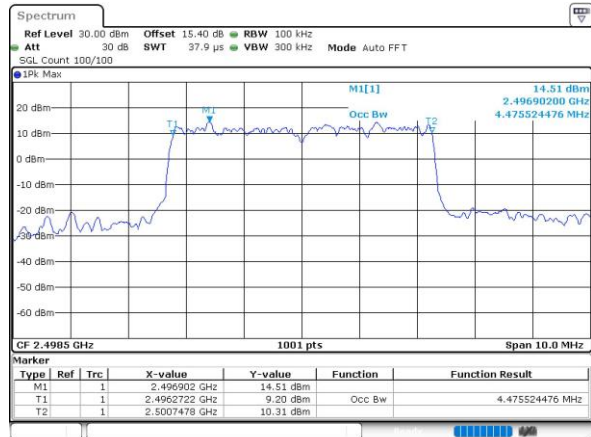


## LTE Band 41

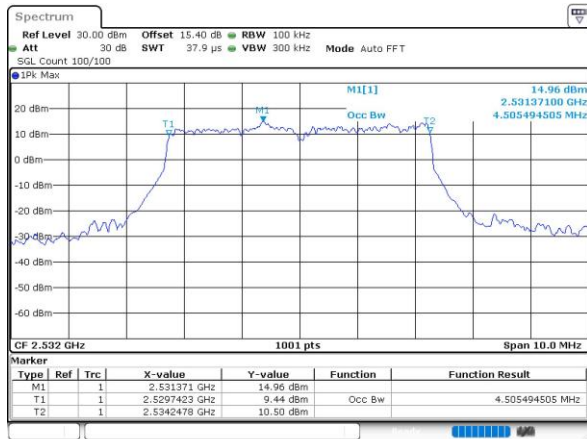
## Lowest Channel / 5MHz / QPSK



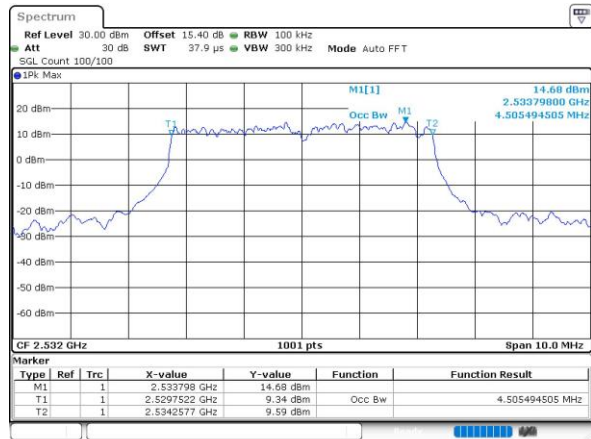
## Lowest Channel / 5MHz / 16QAM



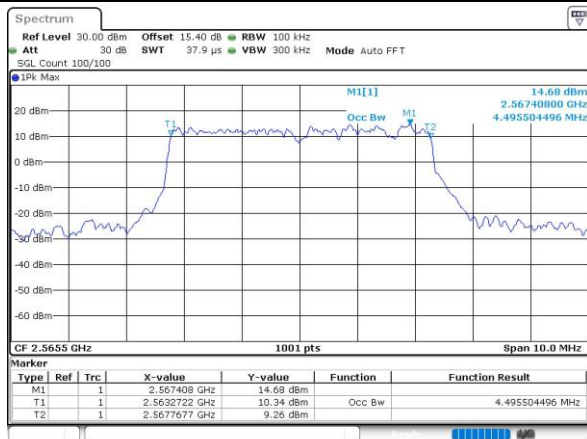
## Middle Channel / 5MHz / QPSK



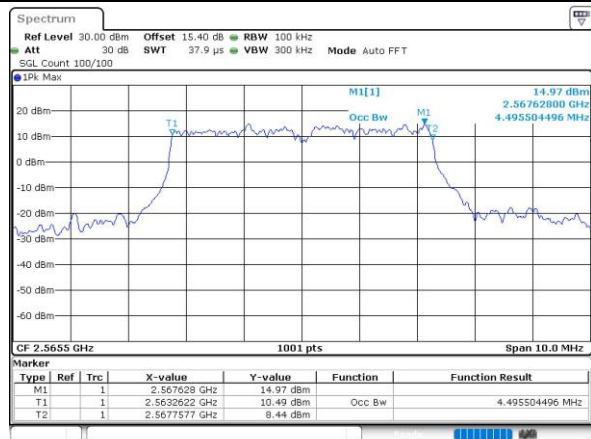
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



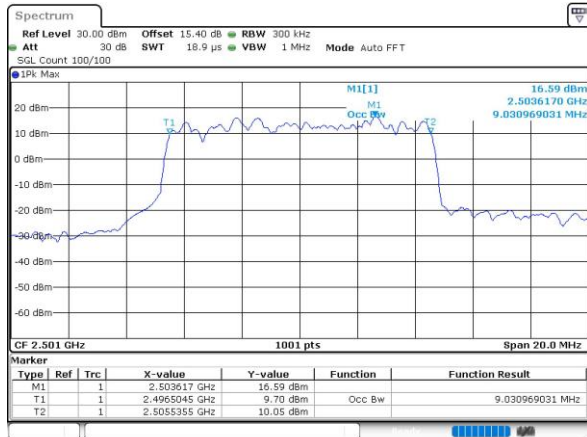
## Highest Channel / 5MHz / 16QAM



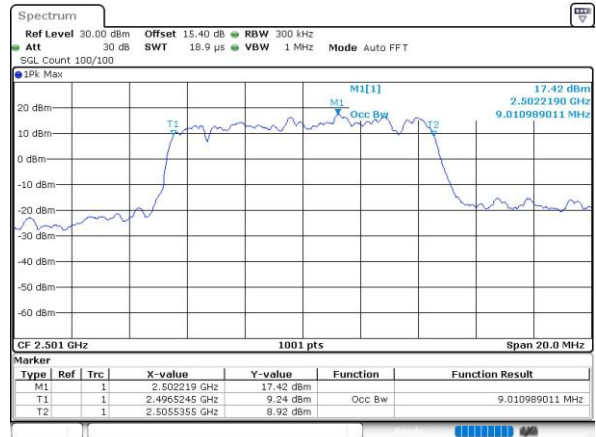


## LTE Band 41

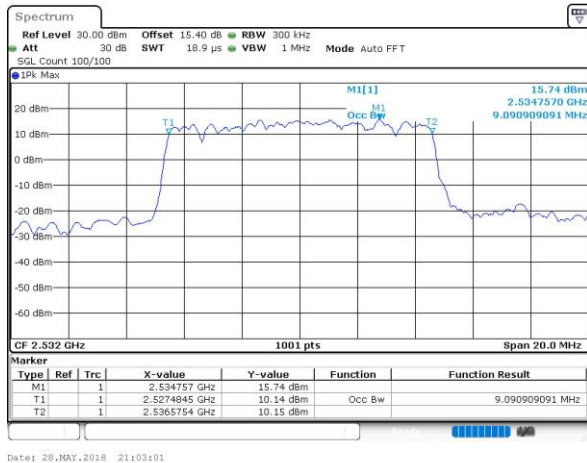
## Lowest Channel / 10MHz / QPSK



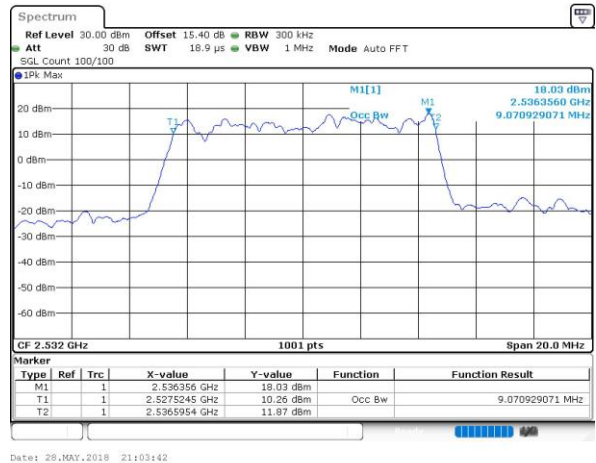
## Lowest Channel / 10MHz / 16QAM



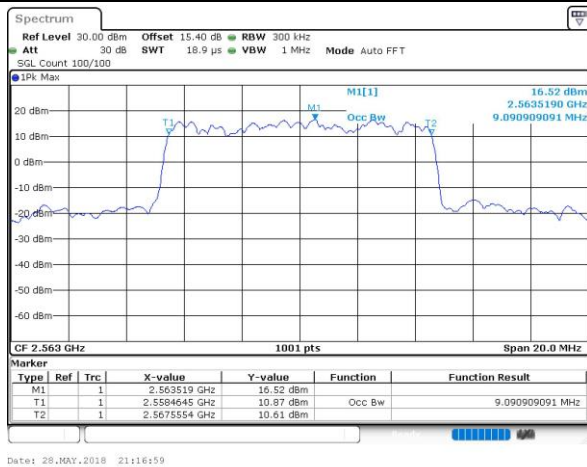
## Middle Channel / 10MHz / QPSK



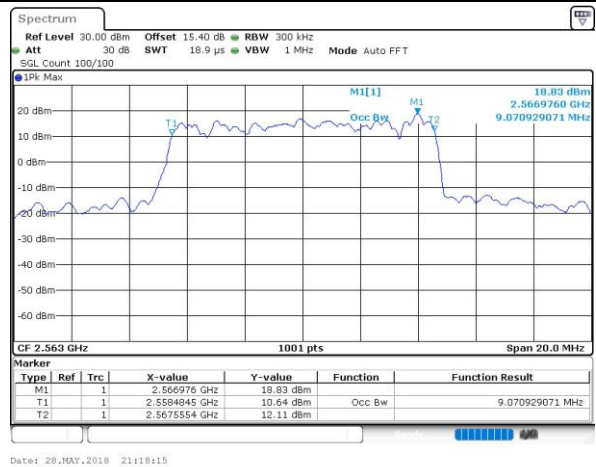
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



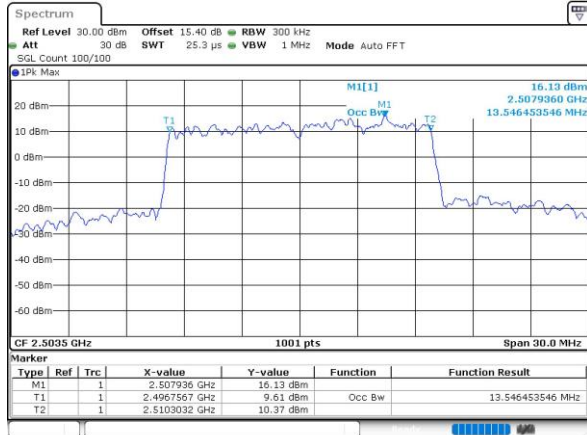
## Highest Channel / 10MHz / 16QAM



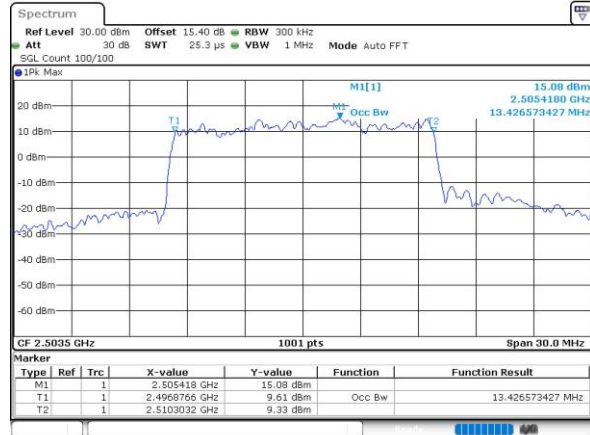


## LTE Band 41

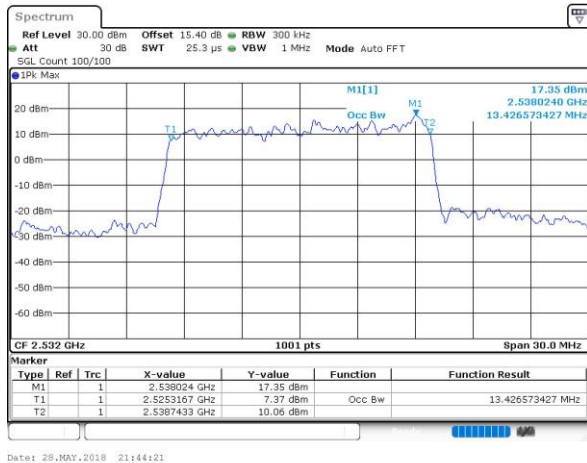
## Lowest Channel / 15MHz / QPSK



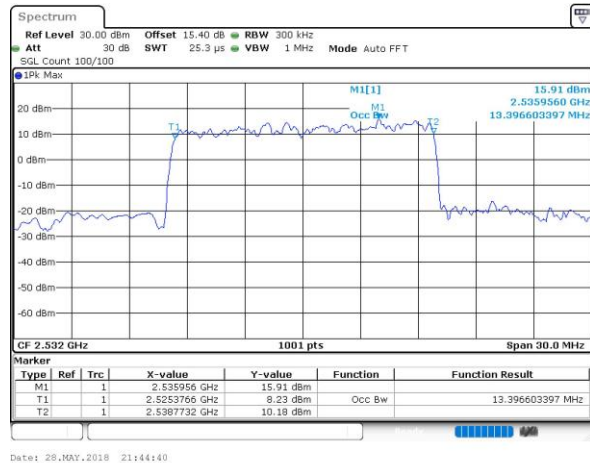
## Lowest Channel / 15MHz / 16QAM



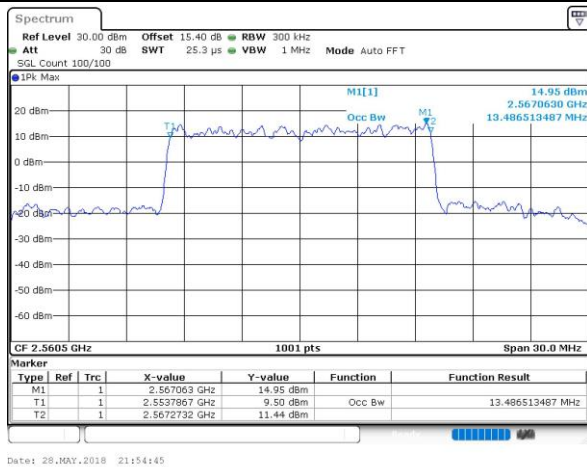
## Middle Channel / 15MHz / QPSK



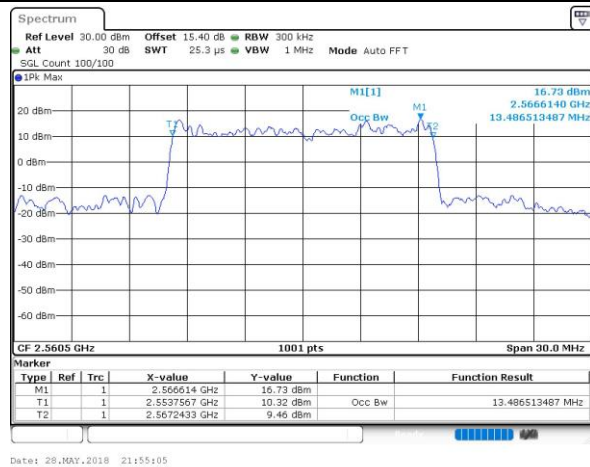
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



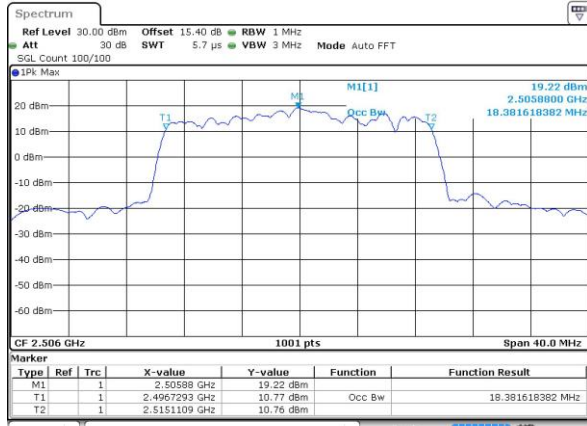
## Highest Channel / 15MHz / 16QAM





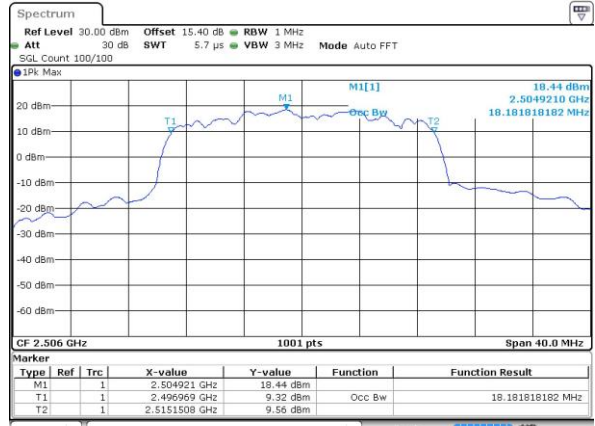
## LTE Band 41

## Lowest Channel / 20MHz / QPSK



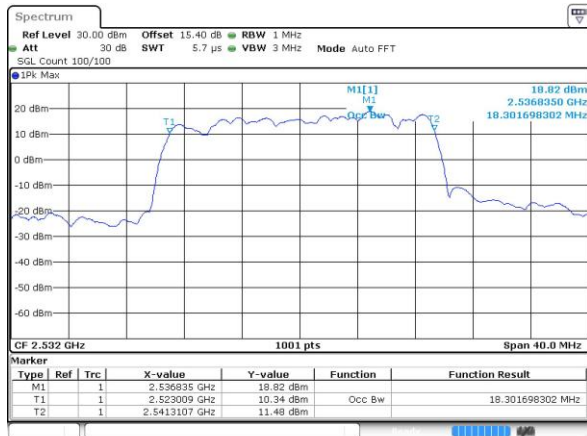
Date: 28 MAY 2018 22:39:10

## Lowest Channel / 20MHz / 16QAM



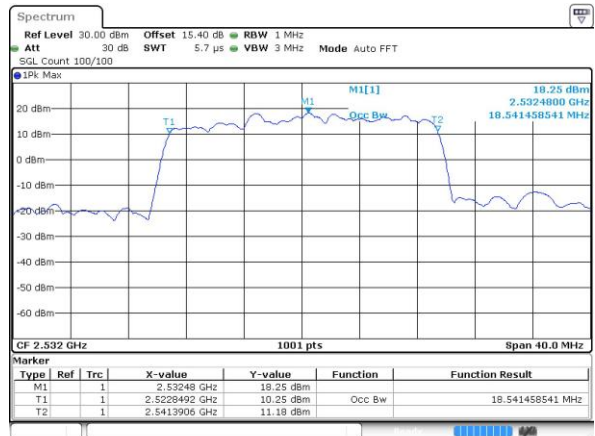
Date: 28 MAY 2018 22:39:51

## Middle Channel / 20MHz / QPSK



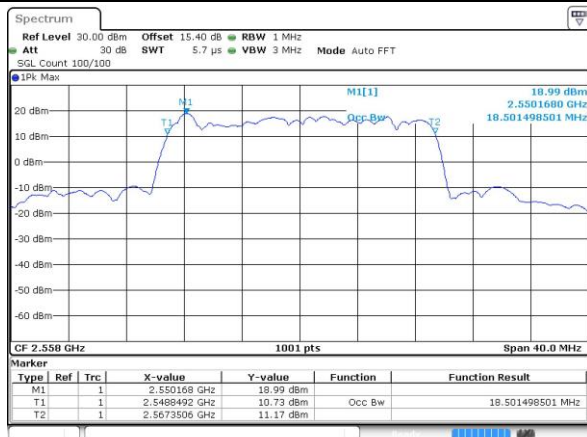
Date: 28 MAY 2018 22:53:27

## Middle Channel / 20MHz / 16QAM



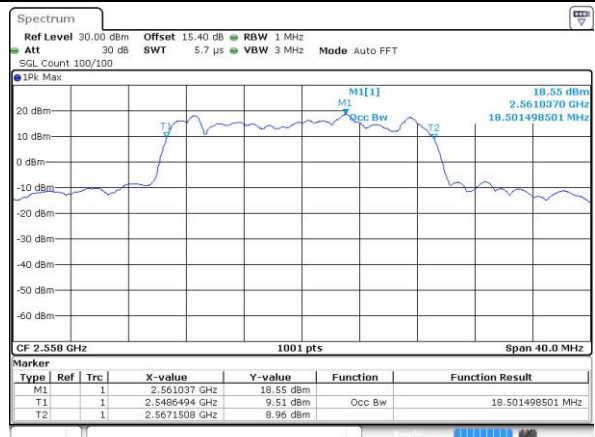
Date: 28 MAY 2018 22:54:33

## Highest Channel / 20MHz / QPSK



Date: 28 MAY 2018 23:08:38

## Highest Channel / 20MHz / 16QAM



Date: 28 MAY 2018 23:09:11