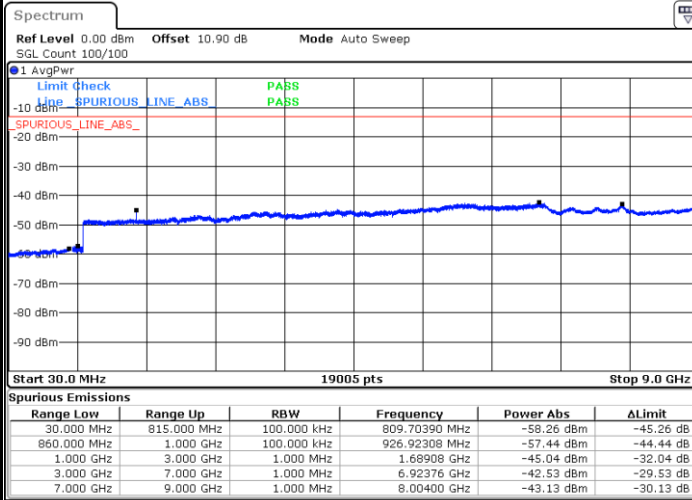




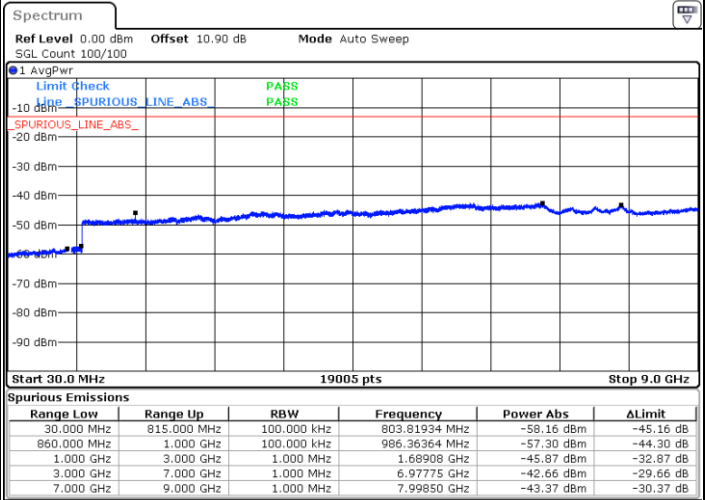
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 18.AUG.2020 05:06:47

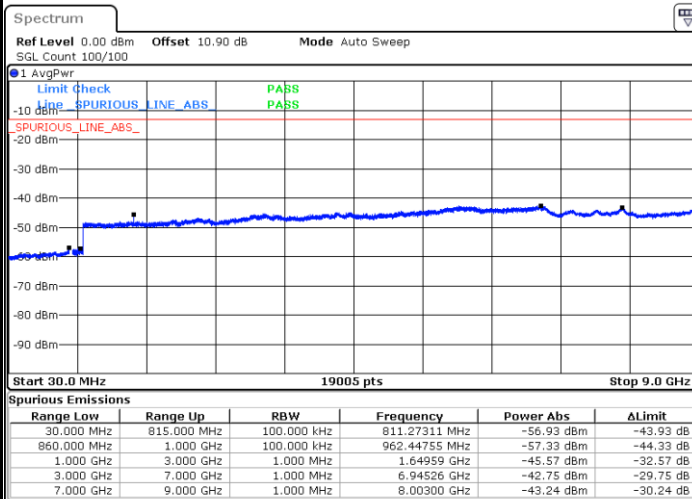
## Highest Channel / 16QAM



Date: 18.AUG.2020 05:07:32

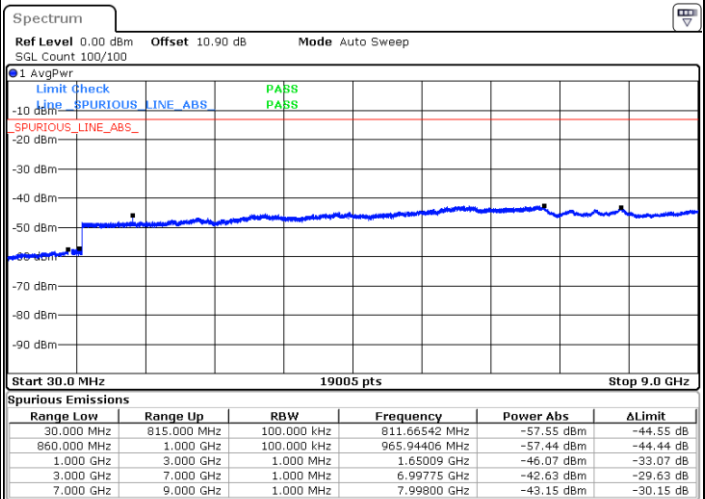
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 18.AUG.2020 05:18:46

## Lowest Channel / 16QAM

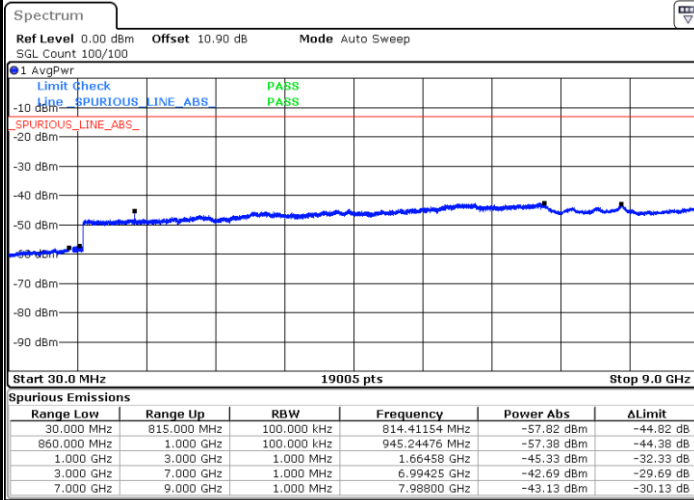


Date: 18.AUG.2020 05:19:31



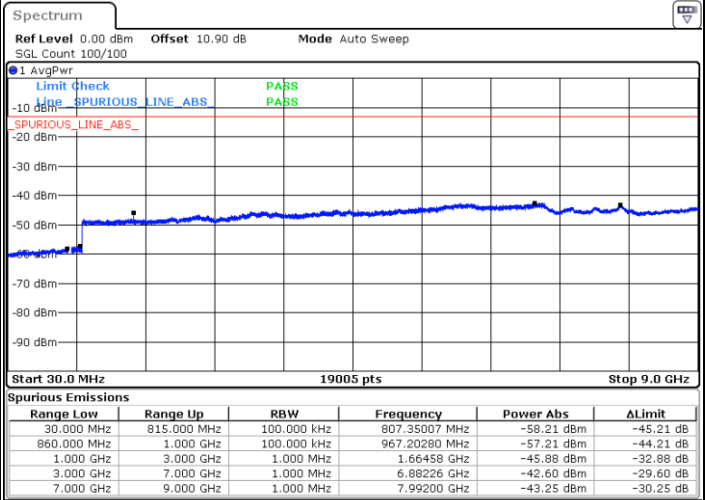
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



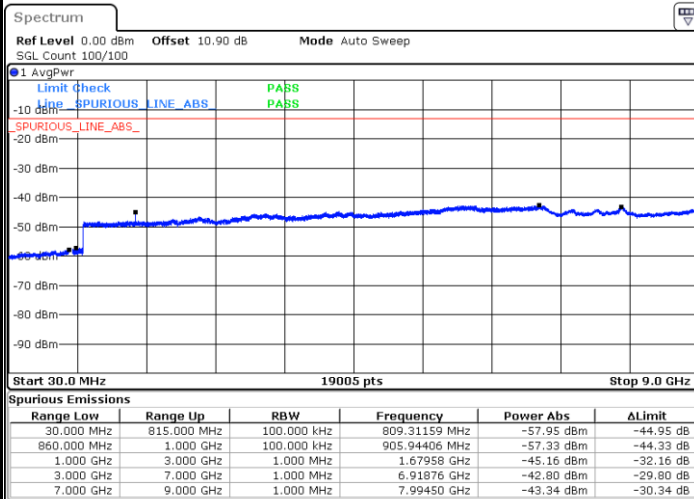
Date: 18.AUG.2020 05:21:01

## Middle Channel / 16QAM



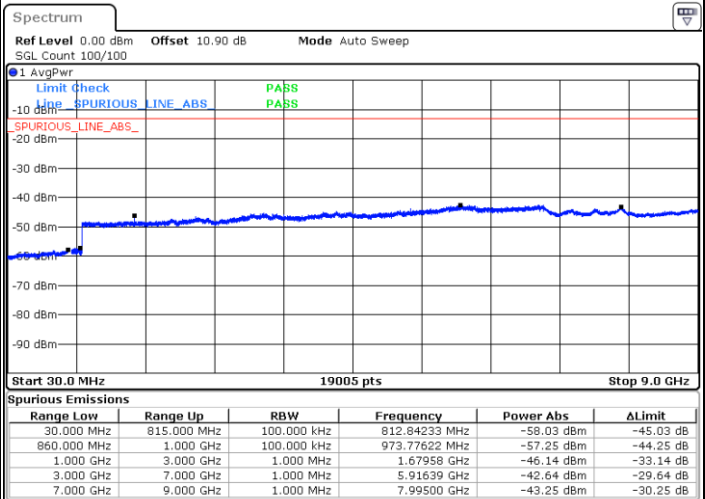
Date: 18.AUG.2020 05:21:45

## Highest Channel / QPSK



Date: 18.AUG.2020 05:29:57

## Highest Channel / 16QAM

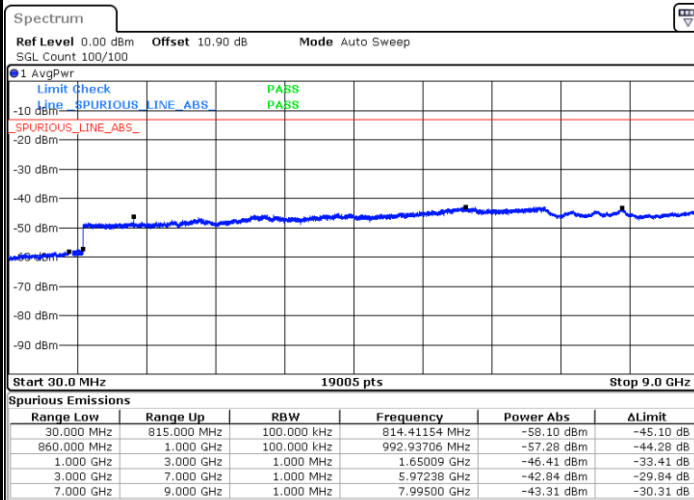


Date: 18.AUG.2020 05:30:42



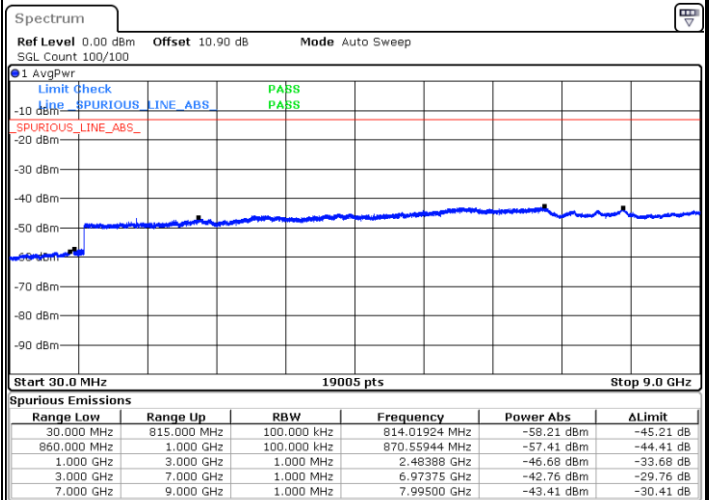
## LTE Band 5 / 1.4MHz

## Lowest Channel / 64QAM



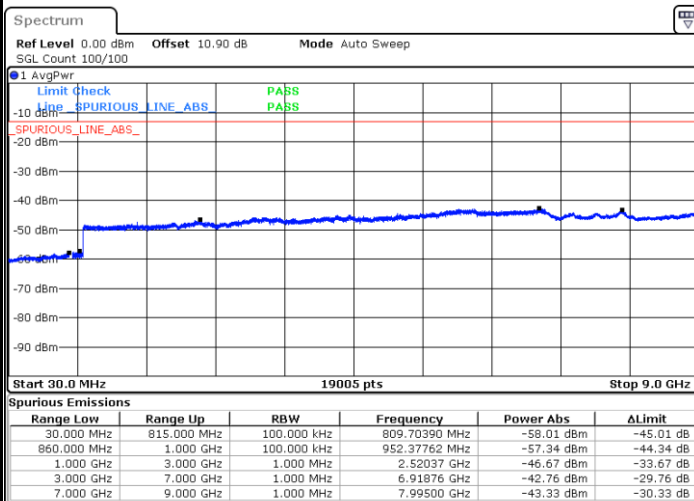
Date: 4.SEP.2020 20:37:33

## Middle Channel / 64QAM



Date: 4.SEP.2020 20:38:41

## Highest Channel / 64QAM

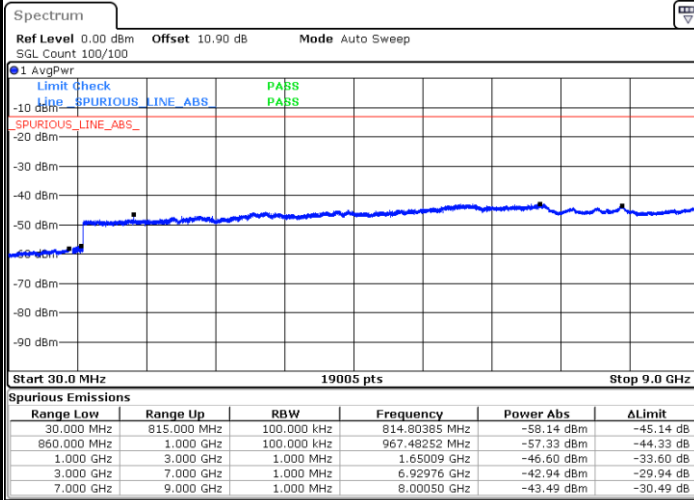


Date: 4.SEP.2020 20:43:09



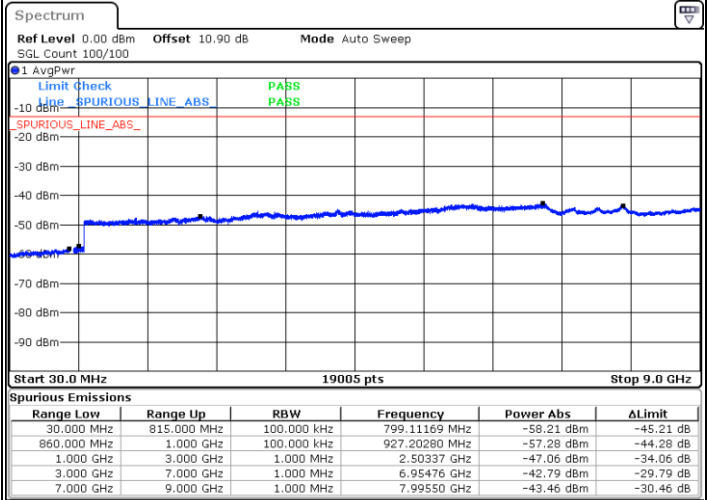
## LTE Band 5 / 3MHz

## Lowest Channel / 64QAM



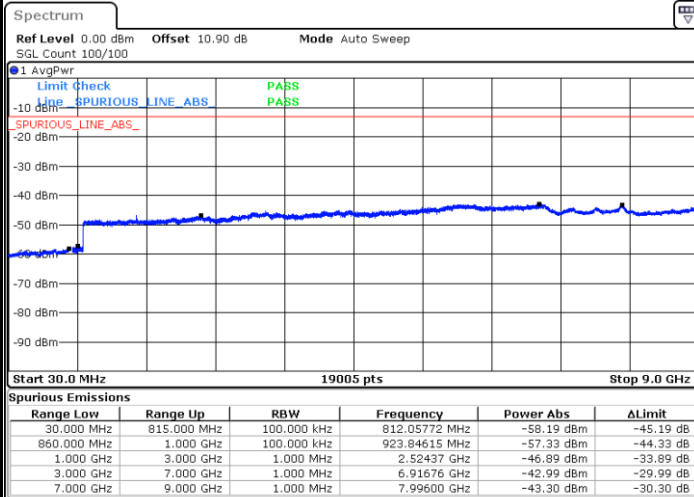
Date: 4.SEP.2020 19:45:50

## Middle Channel / 64QAM



Date: 4.SEP.2020 19:46:58

## Highest Channel / 64QAM

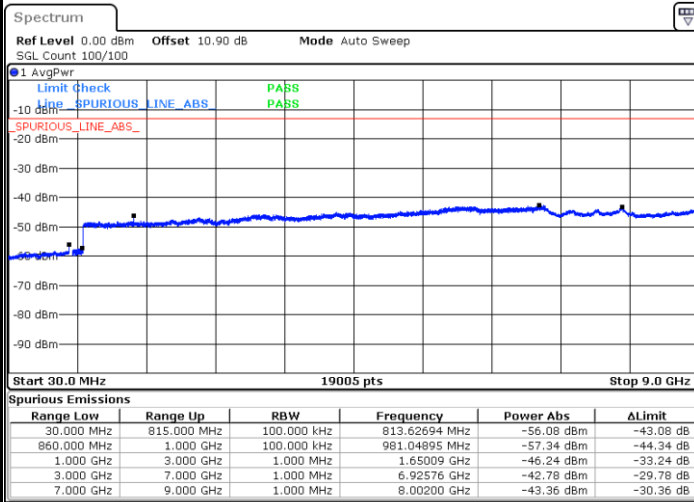


Date: 4.SEP.2020 19:51:26



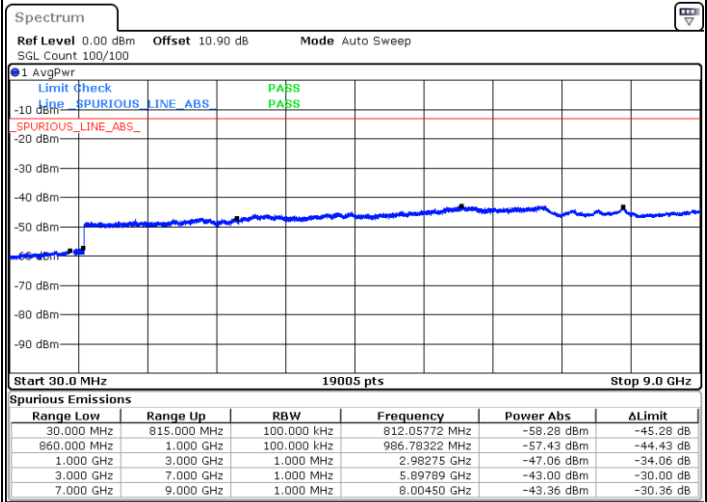
## LTE Band 5 / 5MHz

## Lowest Channel / 64QAM



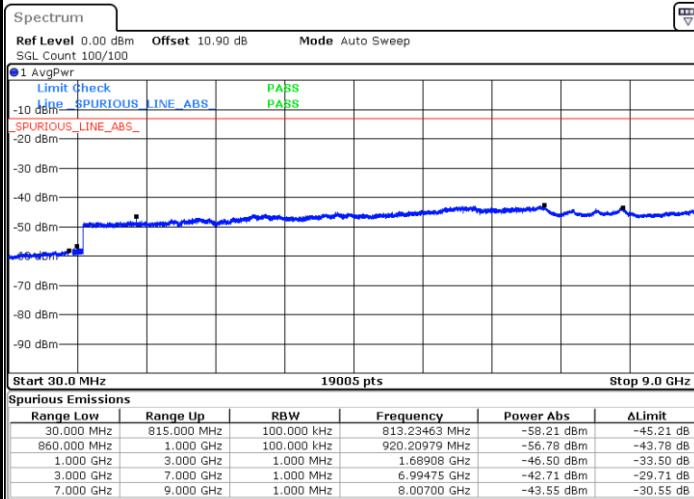
Date: 4.SEP.2020 19:55:55

## Middle Channel / 64QAM



Date: 4.SEP.2020 19:57:02

## Highest Channel / 64QAM

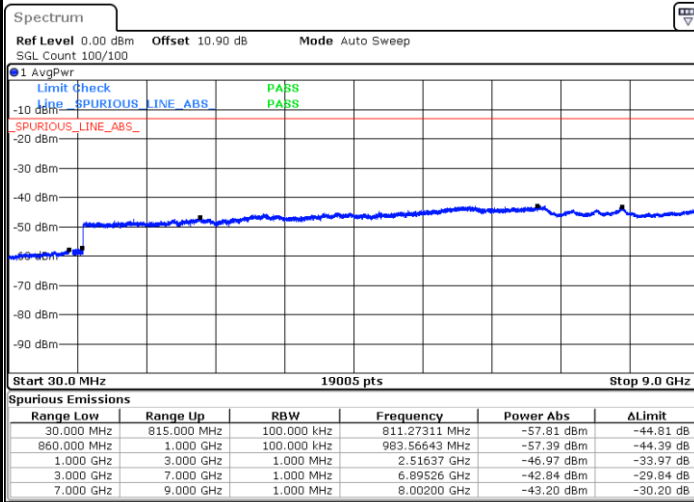


Date: 4.SEP.2020 20:01:30



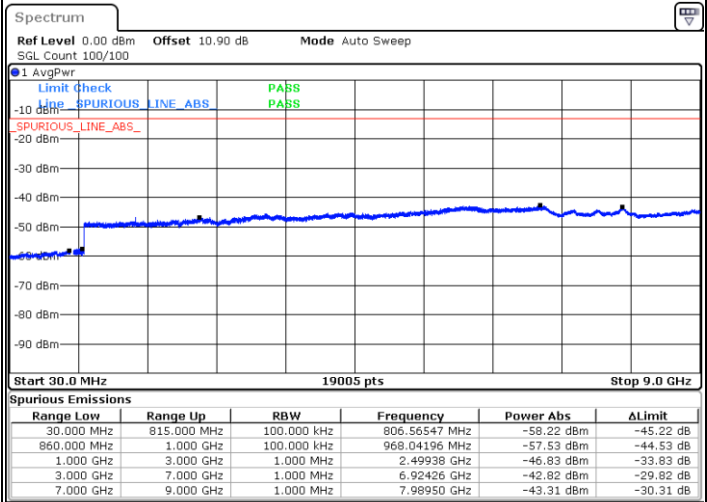
## LTE Band 5 / 10MHz

## Lowest Channel / 64QAM



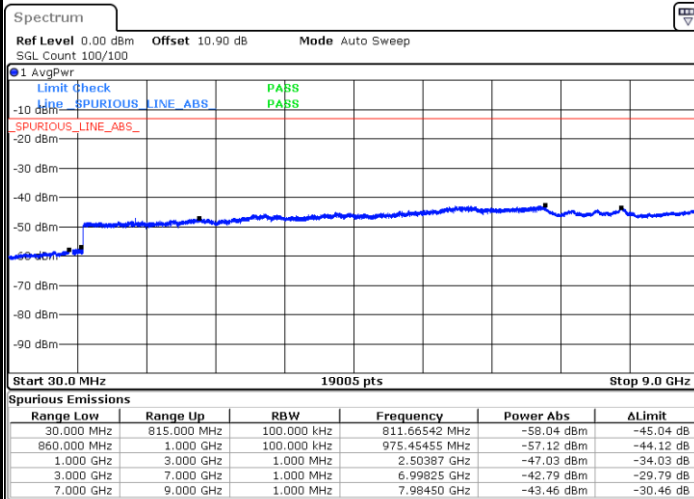
Date: 4.SEP.2020 20:05:59

## Middle Channel / 64QAM



Date: 4.SEP.2020 20:07:06

## Highest Channel / 64QAM



Date: 4.SEP.2020 20:11:35

## 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    | 0.0055                             | PASS   |
| 40               | Normal Voltage    | 0.0019                             |        |
| 30               | Normal Voltage    | 0.0094                             |        |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |        |
| 10               | Normal Voltage    | 0.0151                             |        |
| 0                | Normal Voltage    | 0.0026                             |        |
| -10              | Normal Voltage    | 0.0042                             |        |
| -20              | Normal Voltage    | 0.0071                             |        |
| -30              | Normal Voltage    | 0.0027                             |        |
| 20               | Maximum Voltage   | 0.0012                             |        |
| 20               | Normal Voltage    | 0.0000                             |        |
| 20               | Battery End Point | 0.0030                             |        |

**Note:**

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

## LTE Band 7

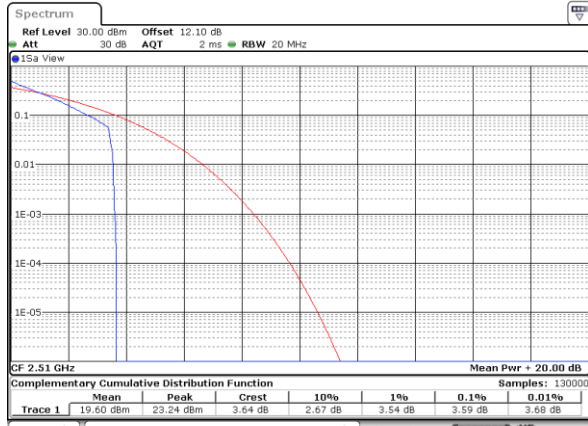
### Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.59               | 4.32    | 5.59  | 5.80    | PASS        |
| Middle CH  | 3.62               | 4.52    | 5.62  | 5.97    |             |
| Highest CH | 3.42               | 4.70    | 4.93  | 6.06    |             |
| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
| Mod.       | 64QAM              |         |       |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB |       |         | Result      |
| Lowest CH  | 7.10               | 6.35    | -     | -       | PASS        |
| Middle CH  | 7.16               | 6.61    | -     | -       |             |
| Highest CH | 6.75               | 6.61    | -     | -       |             |

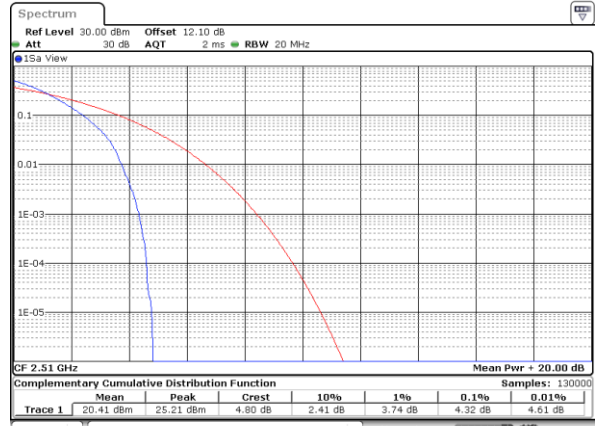


## LTE Band 7 / 20MHz / QPSK

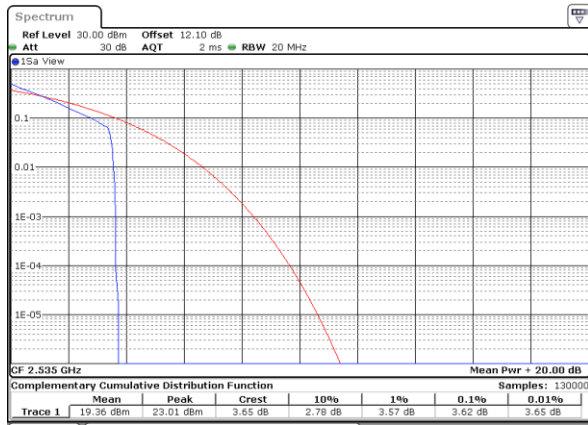
## Lowest Channel / 1RB



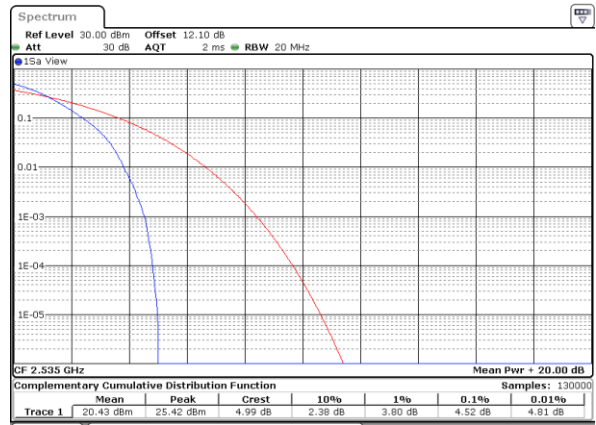
## Lowest Channel / Full RB



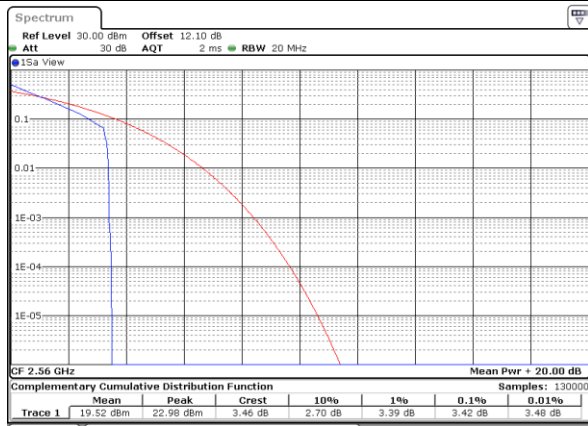
## Middle Channel / 1RB



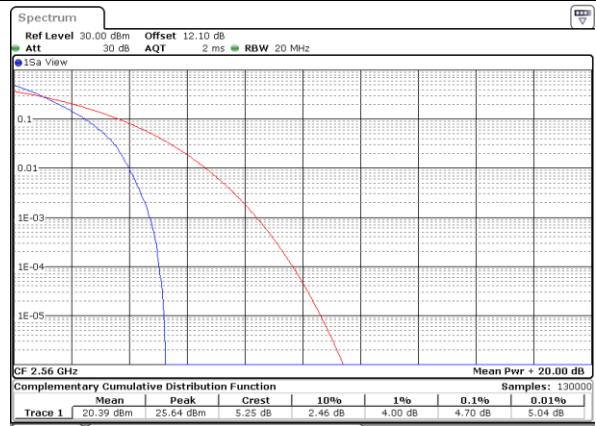
## Middle Channel / Full RB



## Highest Channel / 1RB



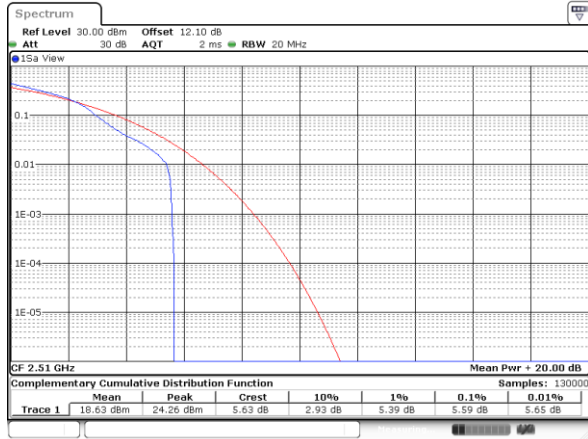
## Highest Channel / Full RB



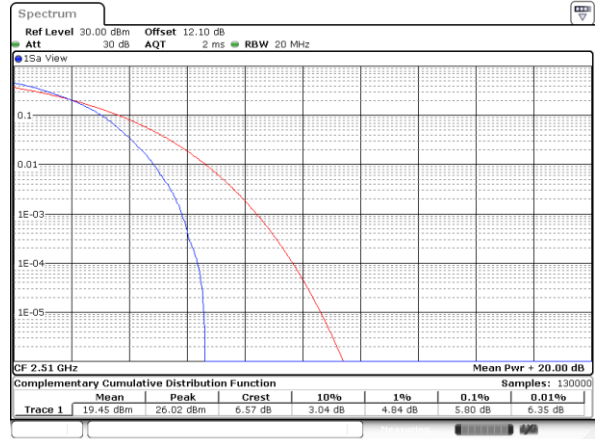


## LTE Band 7 / 20MHz / 16QAM

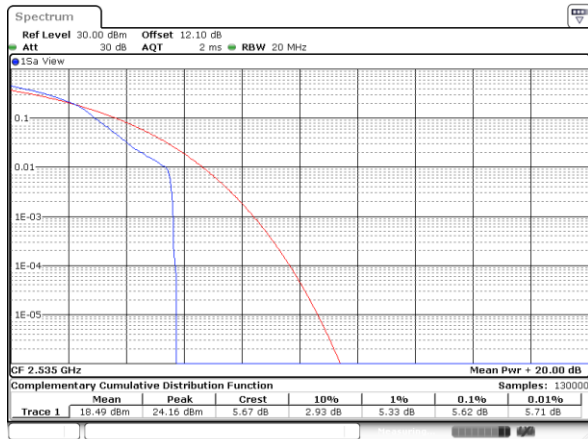
## Lowest Channel / 1RB



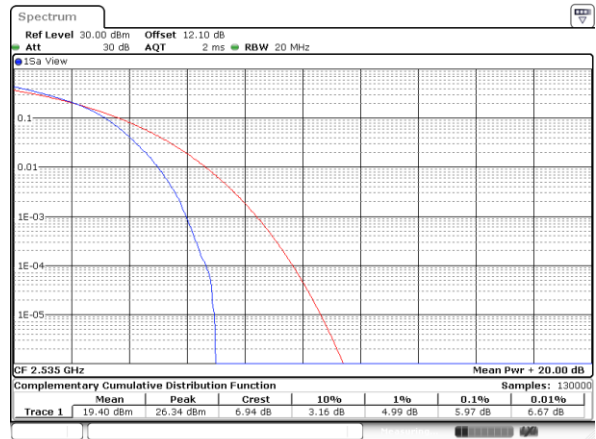
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



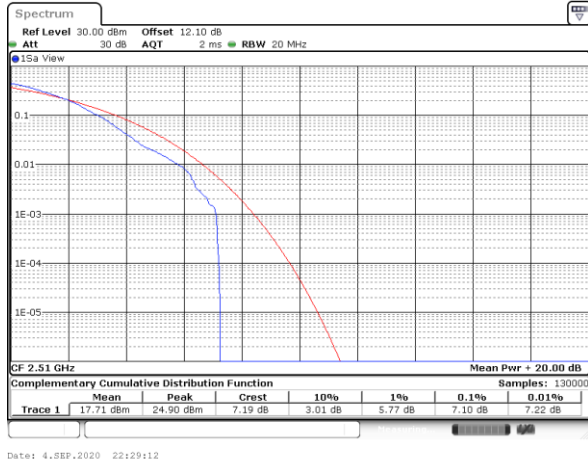
## Highest Channel / Full RB



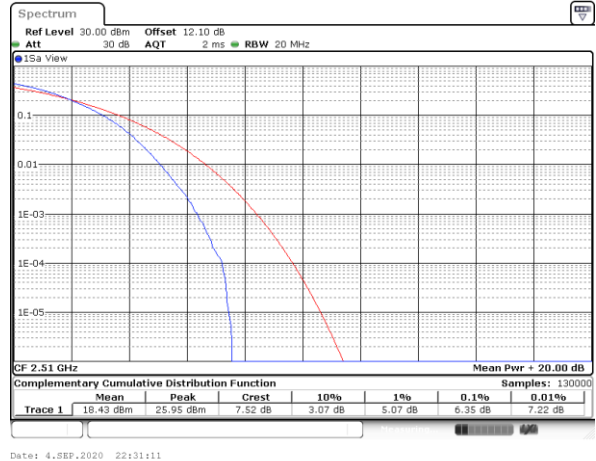


## LTE Band 7 / 20MHz / 64QAM

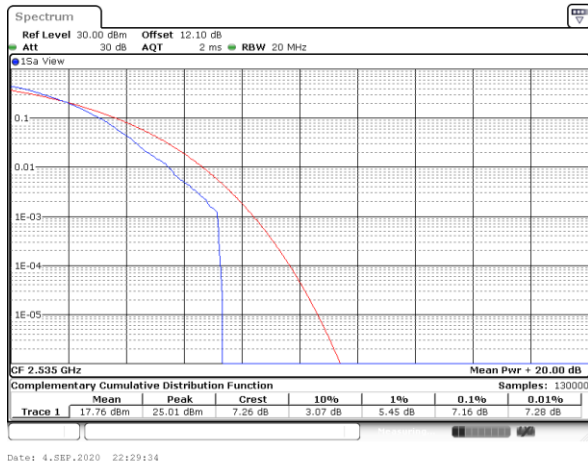
## Lowest Channel / 1RB



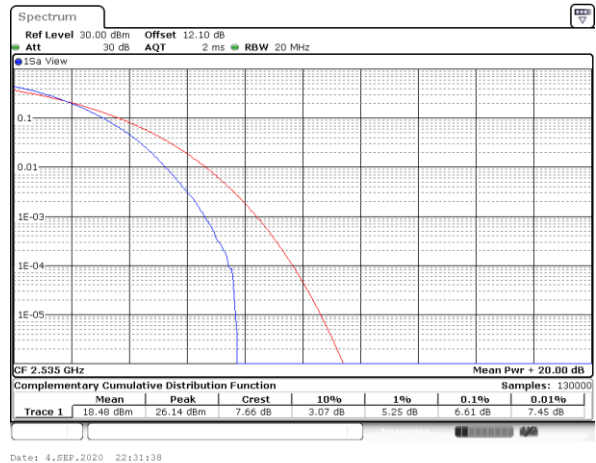
## Lowest Channel / Full RB



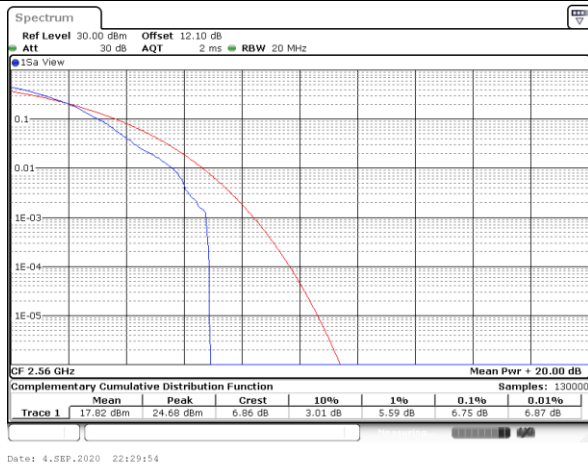
## Middle Channel / 1RB



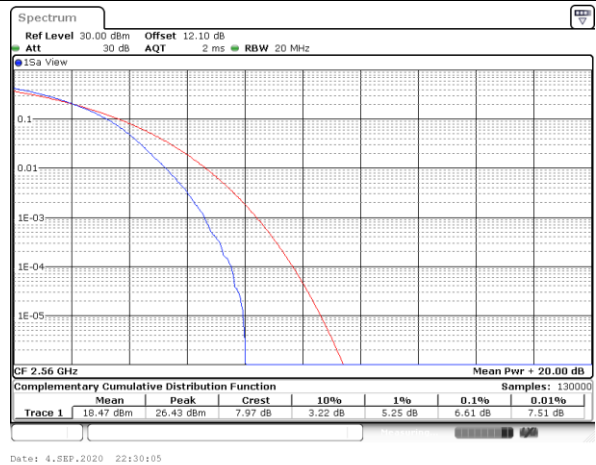
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



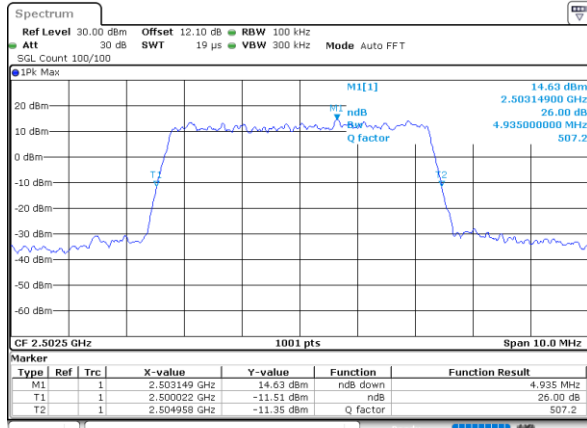
**26dB Bandwidth**

| 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  | -                         | -     | -     | -     | 4.94  | 4.89  | 9.71  | 9.75  | 14.63 | 14.27 | 19.18 | 18.86 |
| Middle CH  | -                         | -     | -     | -     | 4.94  | 4.86  | 9.77  | 9.85  | 14.09 | 14.54 | 19.18 | 18.74 |
| Highest CH | -                         | -     | -     | -     | 4.95  | 4.91  | 9.81  | 9.71  | 14.27 | 14.69 | 19.22 | 18.82 |
| Mode       | LTE Band 7 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                         | -     | -     | -     | 4.91  | -     | 9.83  | -     | 14.48 | -     | 18.78 | -     |
| Middle CH  | -                         | -     | -     | -     | 4.91  | -     | 9.79  | -     | 14.48 | -     | 18.98 | -     |
| Highest CH | -                         | -     | -     | -     | 4.90  | -     | 9.85  | -     | 14.24 | -     | 18.62 | -     |



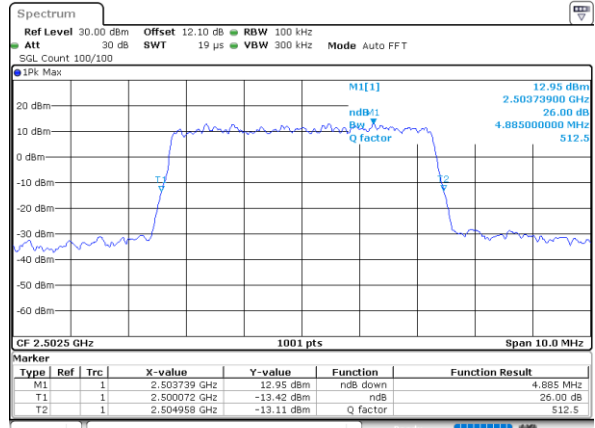
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



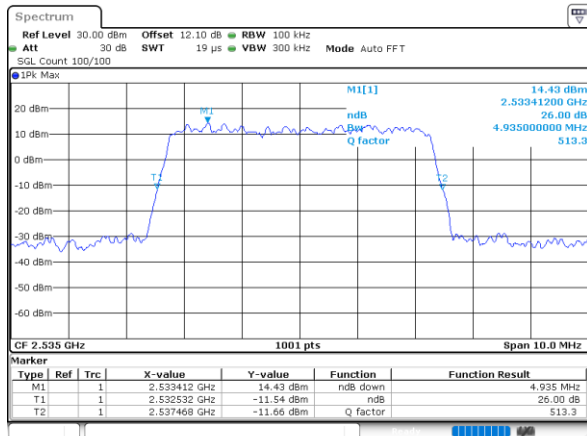
Date: 18.AUG.2020 05:54:30

## Lowest Channel / 5MHz / 16QAM



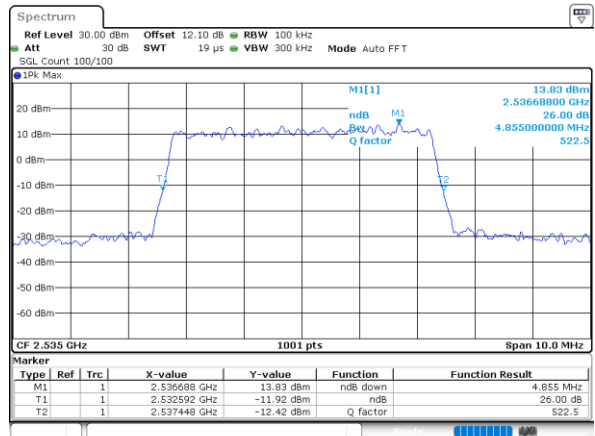
Date: 18.AUG.2020 05:54:42

## Middle Channel / 5MHz / QPSK



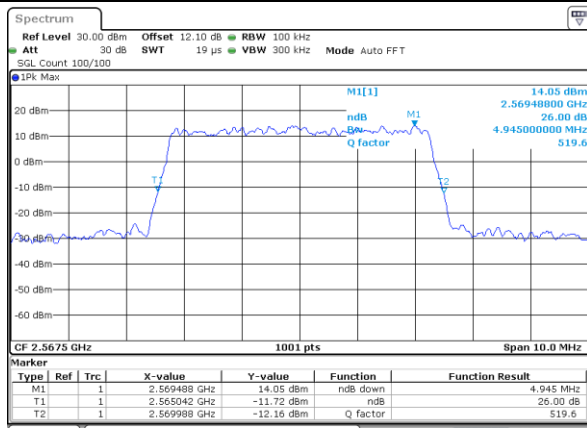
Date: 18.AUG.2020 05:59:38

## Middle Channel / 5MHz / 16QAM



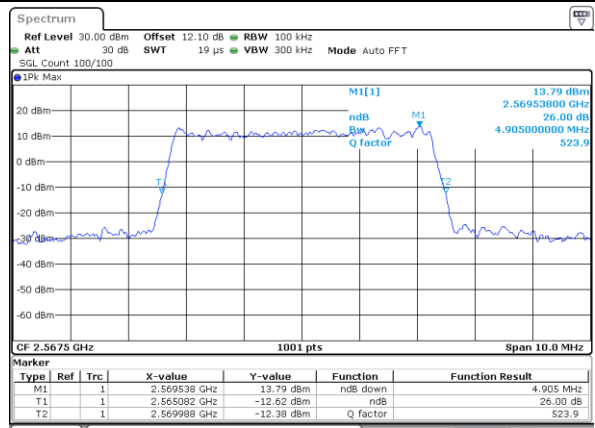
Date: 18.AUG.2020 05:59:49

## Highest Channel / 5MHz / QPSK



Date: 18.AUG.2020 06:02:02

## Highest Channel / 5MHz / 16QAM

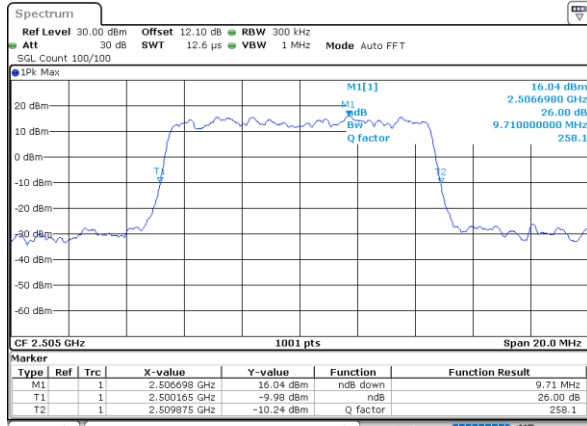


Date: 18.AUG.2020 06:02:14

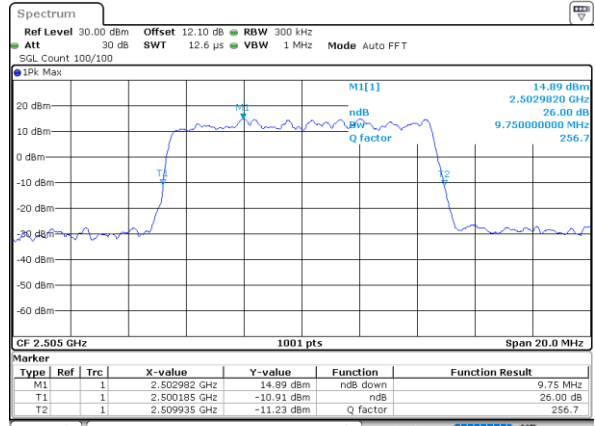


## LTE Band 7

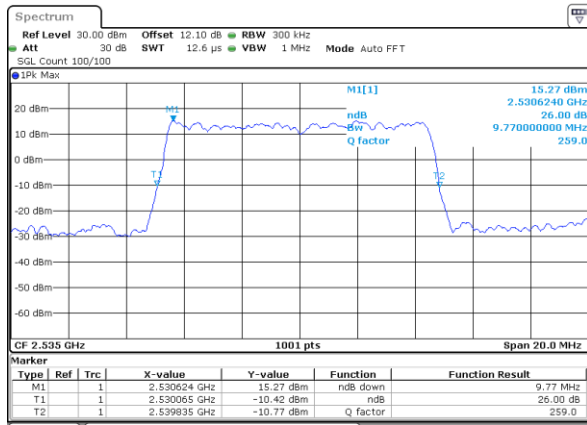
## Lowest Channel / 10MHz / QPSK



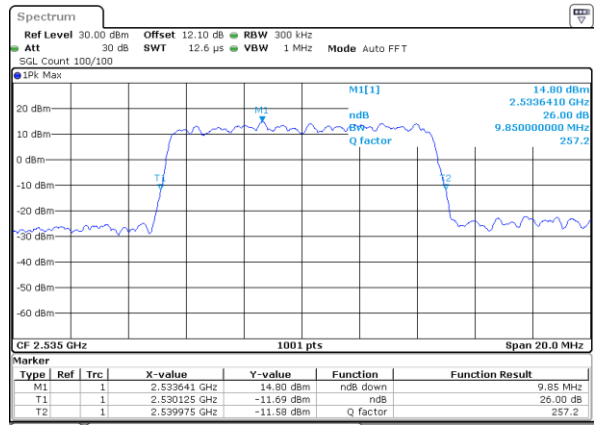
## Lowest Channel / 10MHz / 16QAM



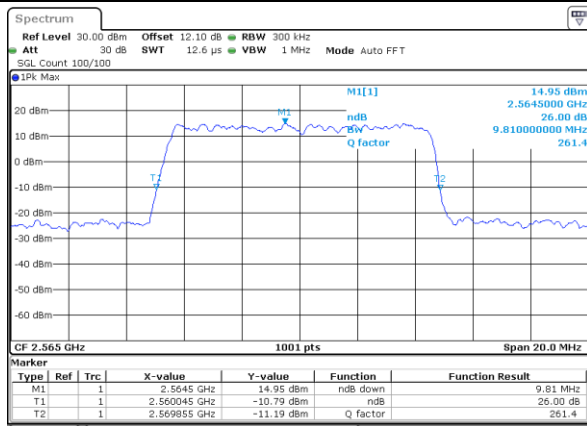
## Middle Channel / 10MHz / QPSK



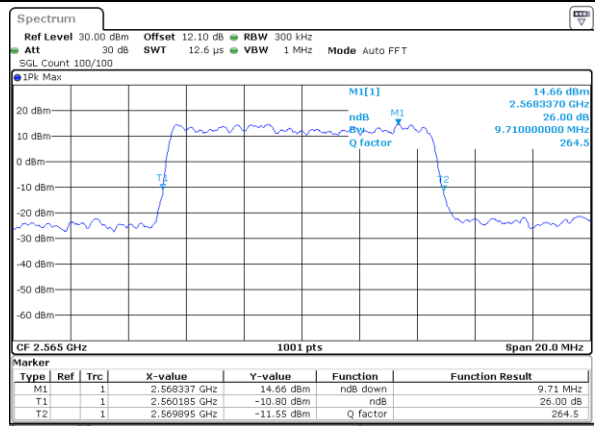
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



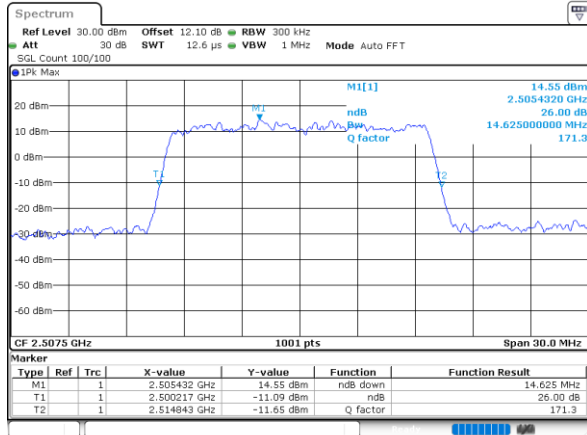
## Highest Channel / 10MHz / 16QAM





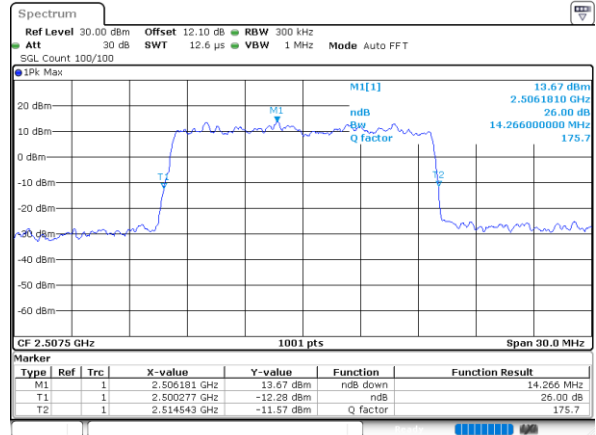
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



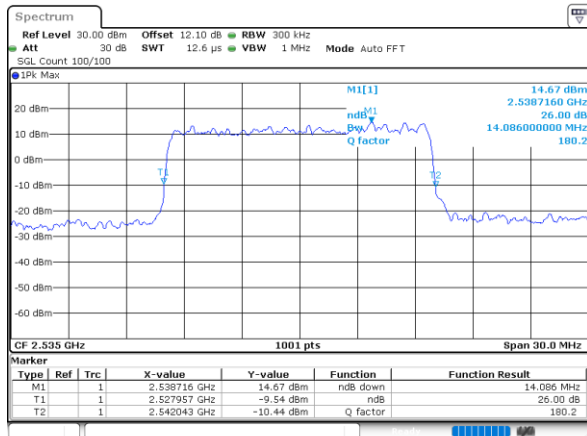
Date: 18.AUG.2020 06:19:49

## Lowest Channel / 15MHz / 16QAM



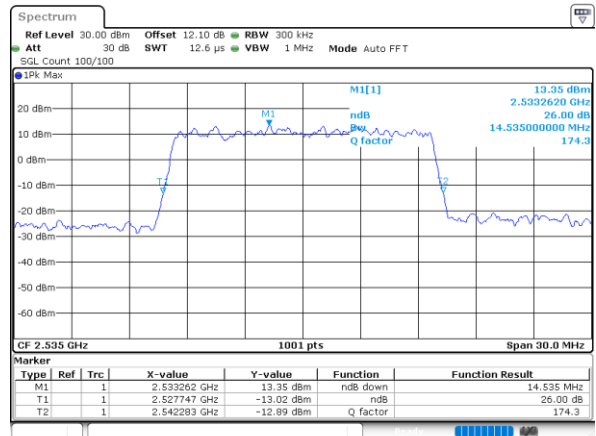
Date: 18.AUG.2020 06:20:01

## Middle Channel / 15MHz / QPSK



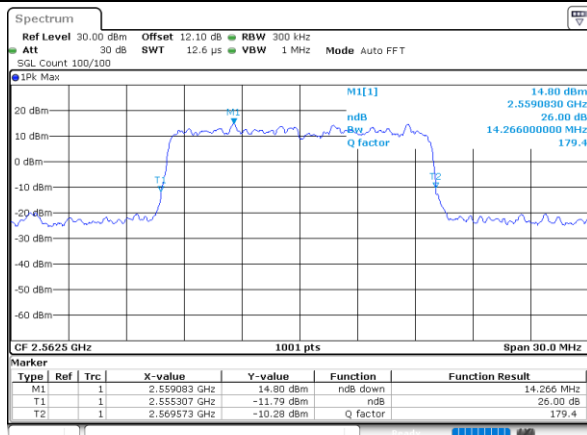
Date: 18.AUG.2020 06:24:57

## Middle Channel / 15MHz / 16QAM



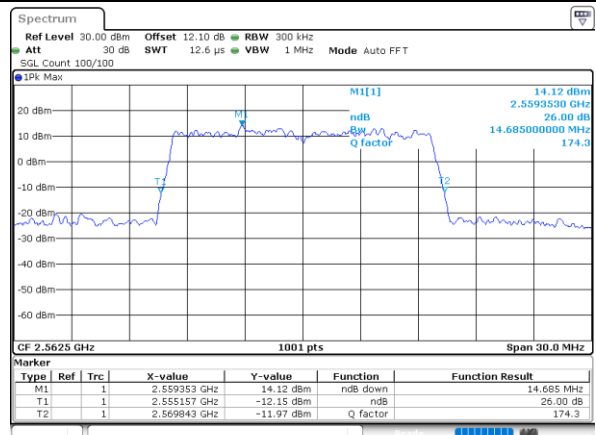
Date: 18.AUG.2020 06:25:09

## Highest Channel / 15MHz / QPSK



Date: 18.AUG.2020 06:27:22

## Highest Channel / 15MHz / 16QAM

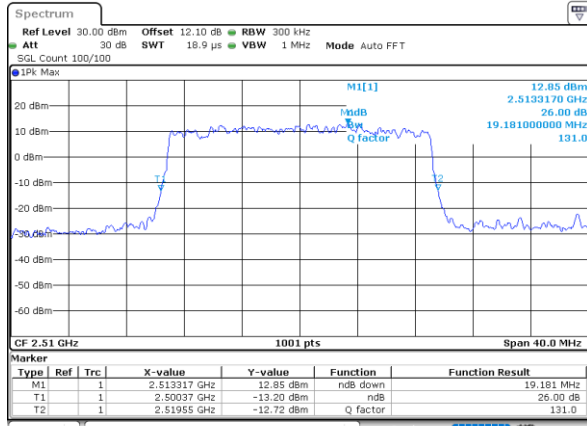


Date: 18.AUG.2020 06:27:34



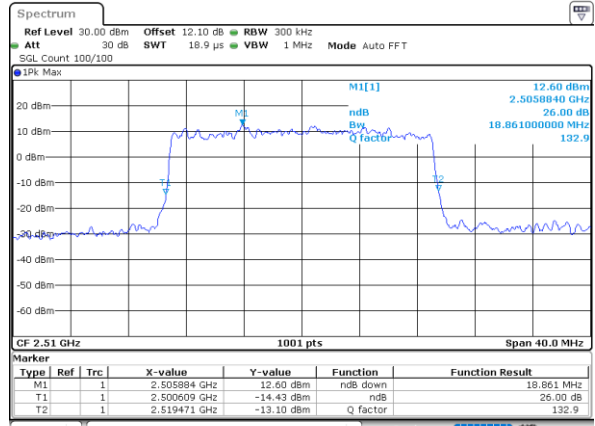
## LTE Band 7

## Lowest Channel / 20MHz / QPSK



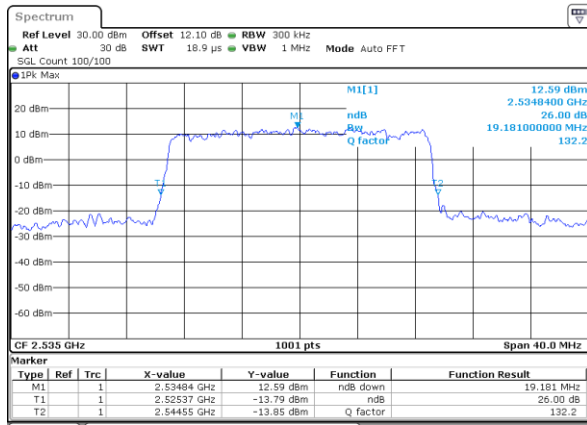
Date: 18\_AUG.2020 06:32:13

## Lowest Channel / 20MHz / 16QAM



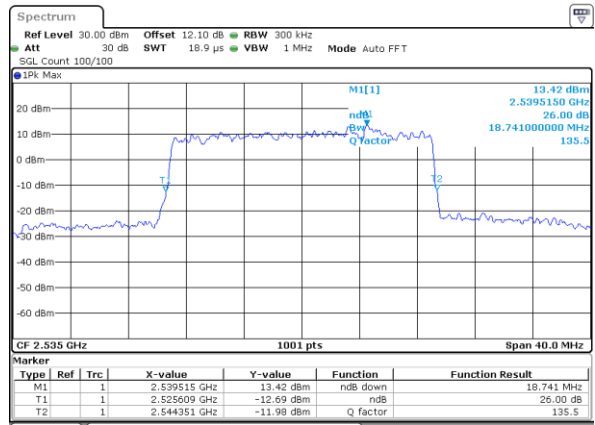
Date: 18\_AUG.2020 06:32:43

## Middle Channel / 20MHz / QPSK



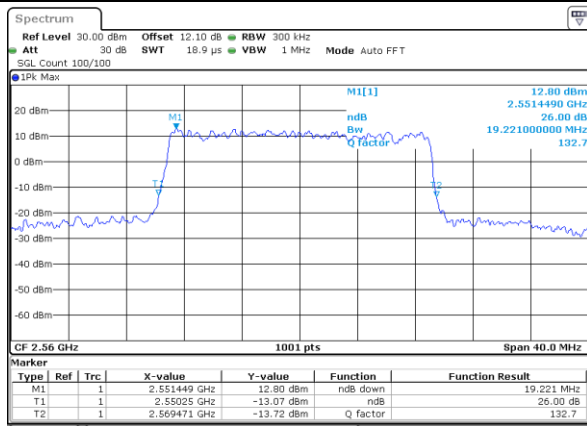
Date: 18\_AUG.2020 06:37:39

## Middle Channel / 20MHz / 16QAM



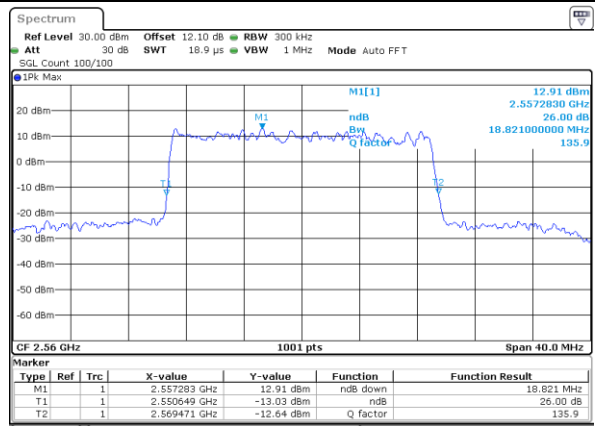
Date: 18\_AUG.2020 06:37:51

## Highest Channel / 20MHz / QPSK



Date: 18\_AUG.2020 06:40:04

## Highest Channel / 20MHz / 16QAM

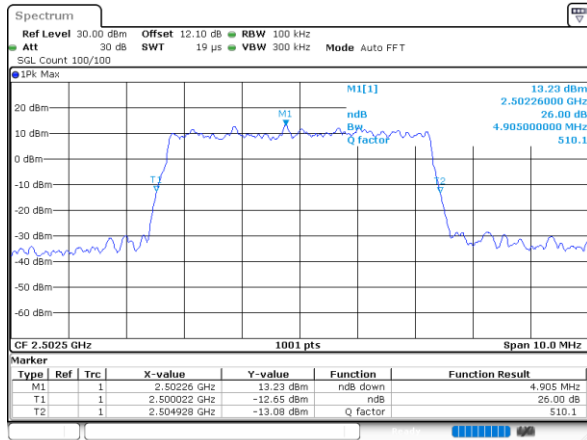


Date: 18\_AUG.2020 06:40:16



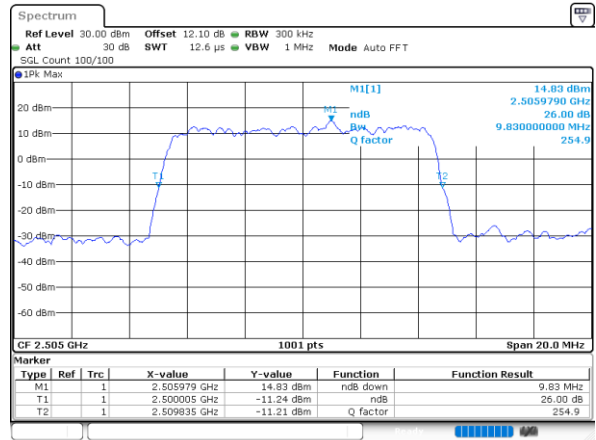
## LTE Band 7

## Lowest Channel / 5MHz / 64QAM



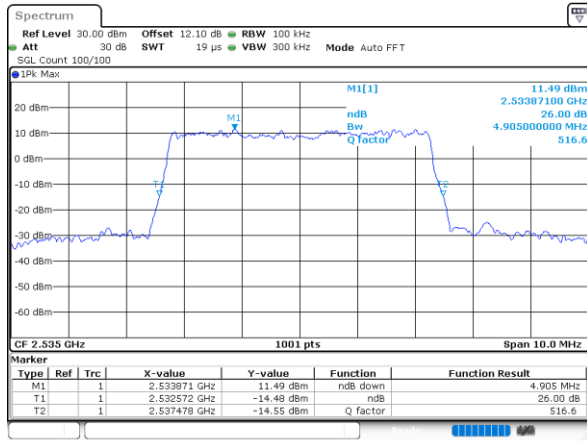
Date: 4.SEP.2020 21:29:04

## Lowest Channel / 10MHz / 64QAM



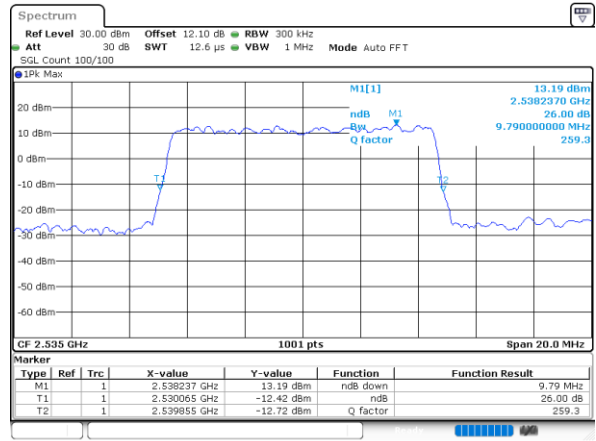
Date: 4.SEP.2020 21:35:23

## Middle Channel / 5MHz / 64QAM



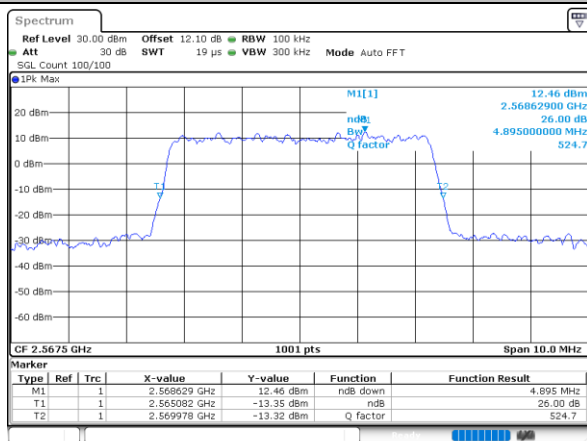
Date: 4.SEP.2020 21:31:37

## Middle Channel / 10MHz / 64QAM



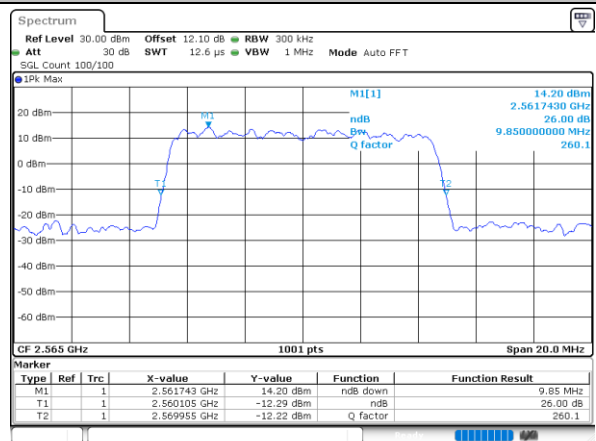
Date: 4.SEP.2020 21:37:55

## Highest Channel / 5MHz / 64QAM



Date: 4.SEP.2020 21:32:49

## Highest Channel / 10MHz / 64QAM

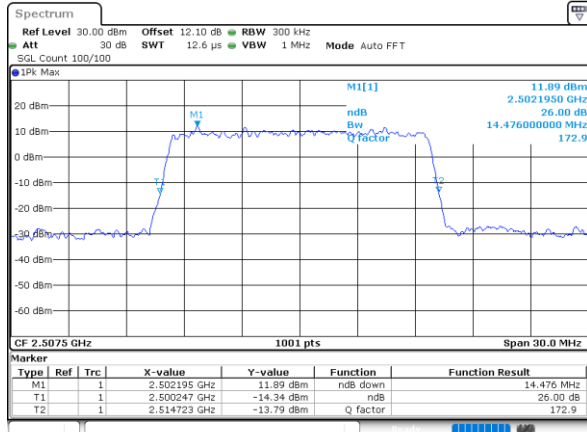


Date: 4.SEP.2020 21:39:07



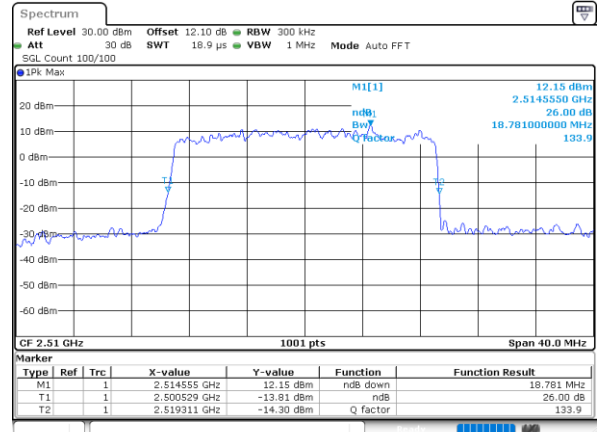
## LTE Band 7

## Lowest Channel / 15MHz / 64QAM



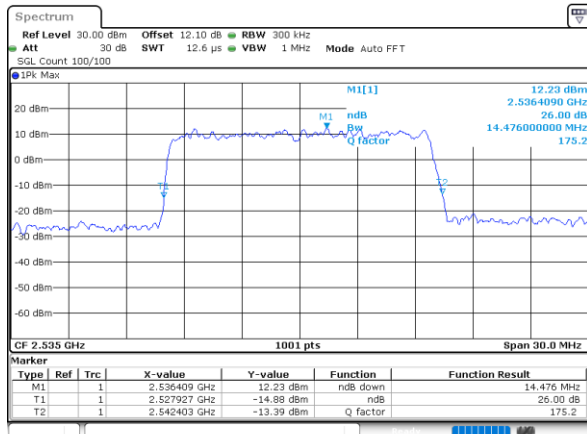
Date: 4,SEP,2020 21:41:41

## Lowest Channel / 20MHz / 64QAM



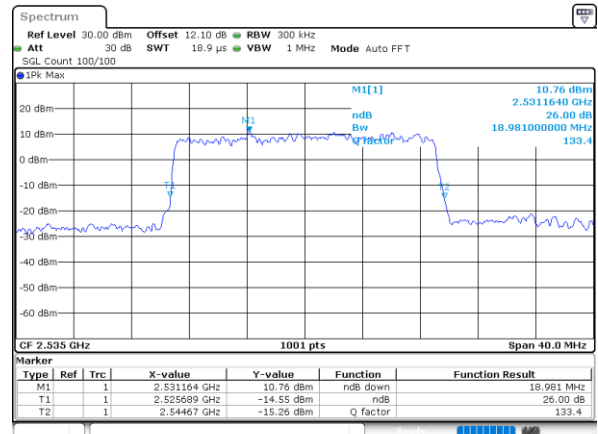
Date: 4,SEP,2020 21:48:00

## Middle Channel / 15MHz / 64QAM



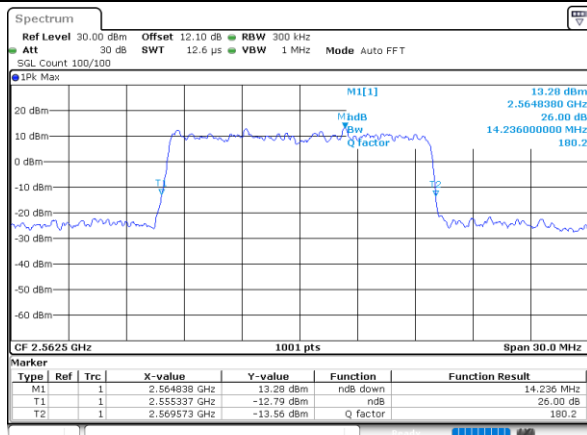
Date: 4,SEP,2020 21:44:15

## Middle Channel / 20MHz / 64QAM



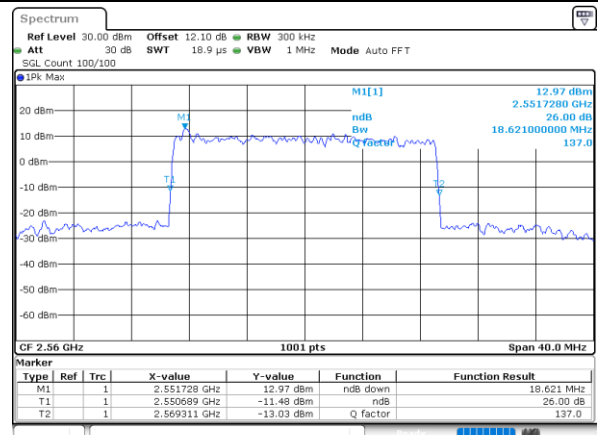
Date: 4,SEP,2020 21:50:33

## Highest Channel / 15MHz / 64QAM



Date: 4,SEP,2020 21:45:26

## Highest Channel / 20MHz / 64QAM



Date: 4,SEP,2020 21:51:45

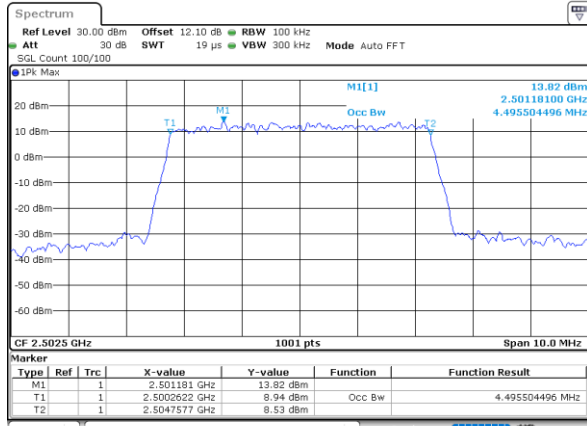
**Occupied Bandwidth**

| 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  | -                        | -     | -     | -     | 4.50  | 4.50  | 9.01  | 9.07  | 13.43 | 13.46 | 17.78 | 17.86 |
| Middle CH  | -                        | -     | -     | -     | 4.52  | 4.50  | 8.97  | 9.03  | 13.43 | 13.46 | 17.86 | 17.82 |
| Highest CH | -                        | -     | -     | -     | 4.51  | 4.50  | 9.03  | 9.05  | 13.49 | 13.46 | 17.90 | 17.90 |
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                    |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                        | -     | -     | -     | 4.49  | -     | 8.95  | -     | 13.43 | -     | 17.78 | -     |
| Middle CH  | -                        | -     | -     | -     | 4.50  | -     | 9.05  | -     | 13.43 | -     | 17.90 | -     |
| Highest CH | -                        | -     | -     | -     | 4.51  | -     | 9.07  | -     | 13.49 | -     | 17.82 | -     |



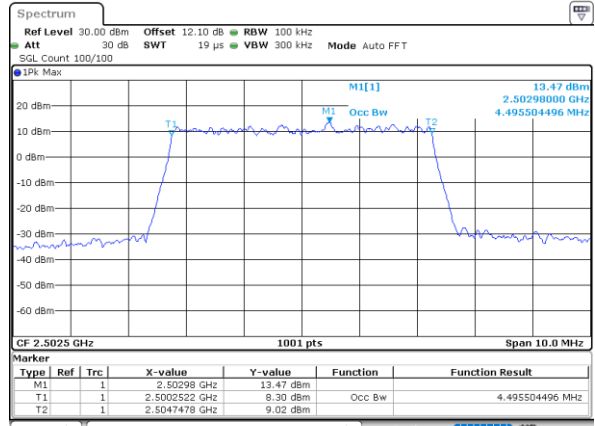
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



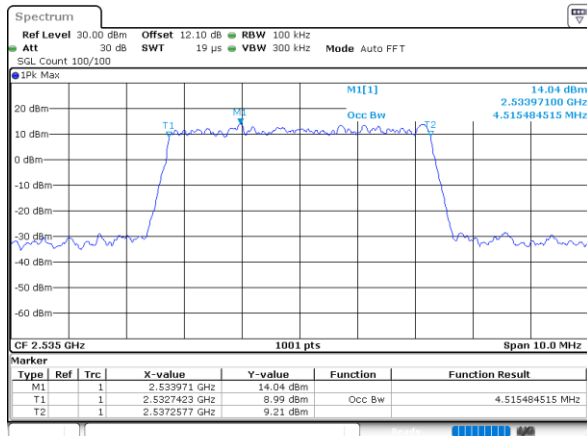
Date: 18.AUG.2020 05:54:06

## Lowest Channel / 5MHz / 16QAM



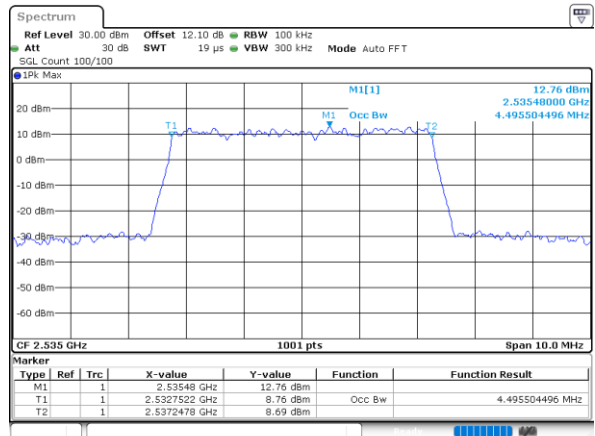
Date: 18.AUG.2020 05:54:18

## Middle Channel / 5MHz / QPSK



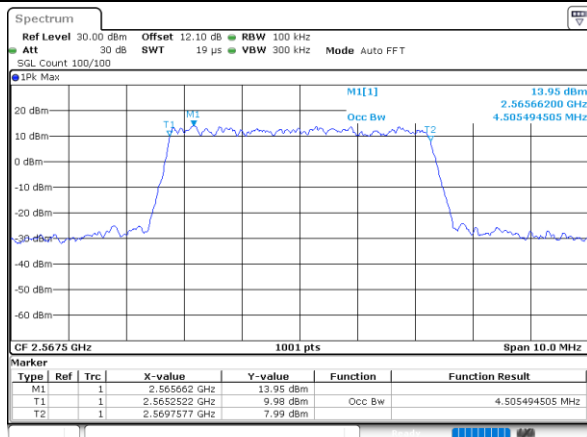
Date: 18.AUG.2020 05:59:15

## Middle Channel / 5MHz / 16QAM



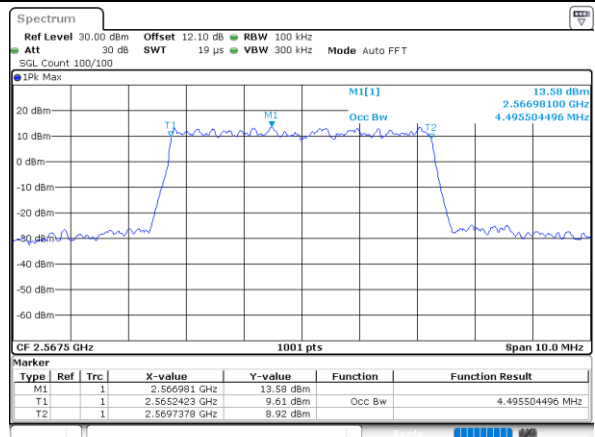
Date: 18.AUG.2020 05:59:26

## Highest Channel / 5MHz / QPSK



Date: 18.AUG.2020 06:01:39

## Highest Channel / 5MHz / 16QAM

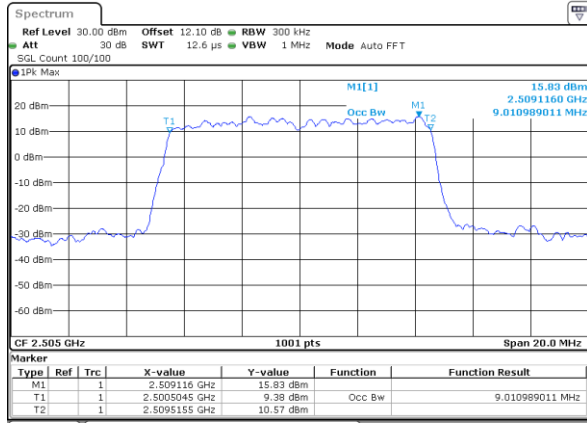


Date: 18.AUG.2020 06:01:51

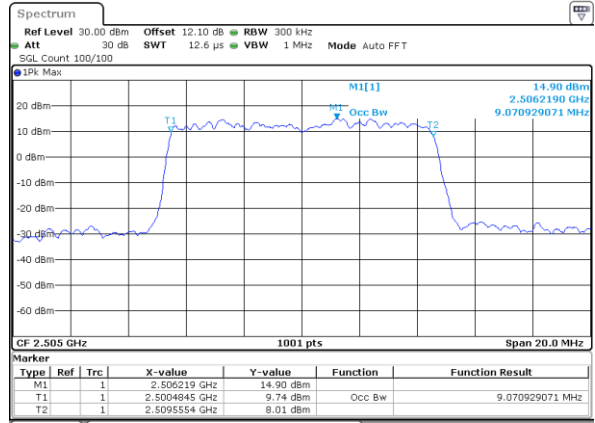


## LTE Band 7

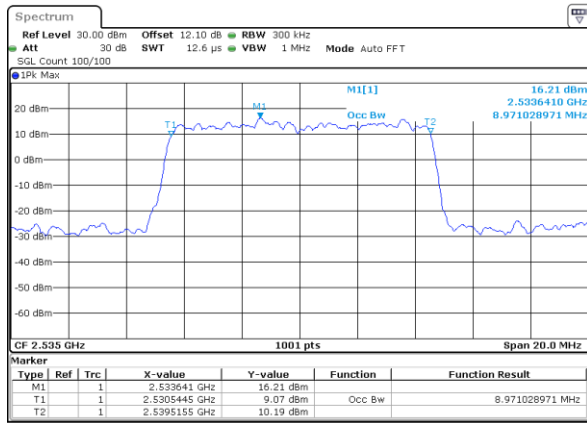
## Lowest Channel / 10MHz / QPSK



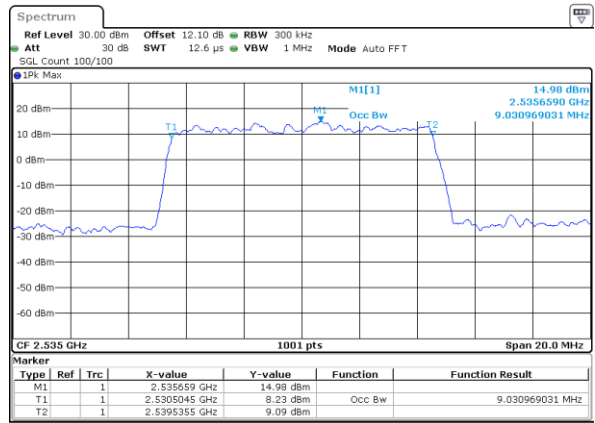
## Lowest Channel / 10MHz / 16QAM



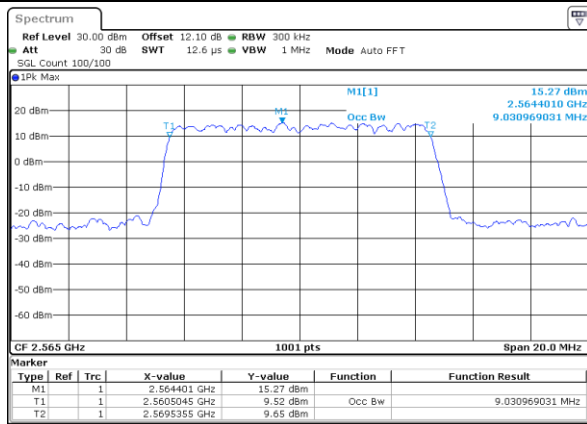
## Middle Channel / 10MHz / QPSK



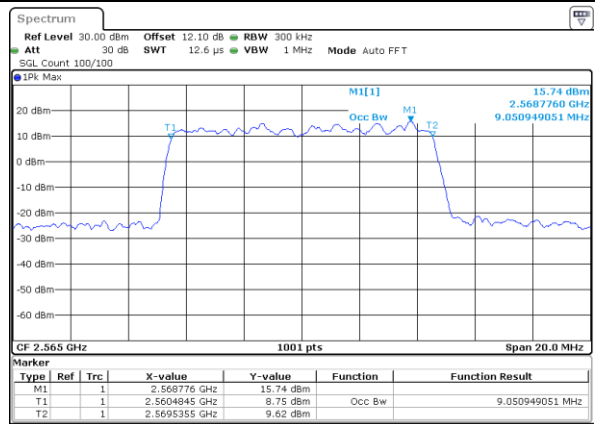
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



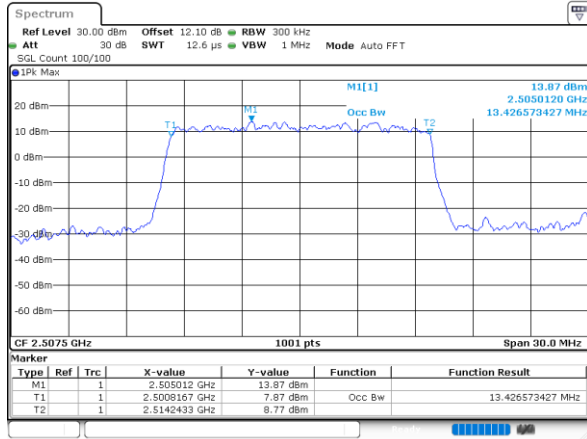
## Highest Channel / 10MHz / 16QAM



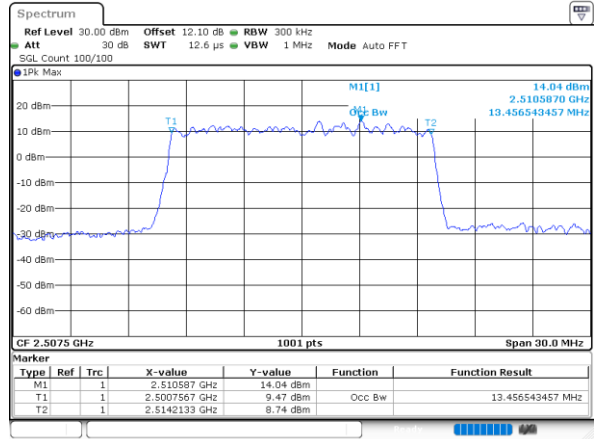


## LTE Band 7

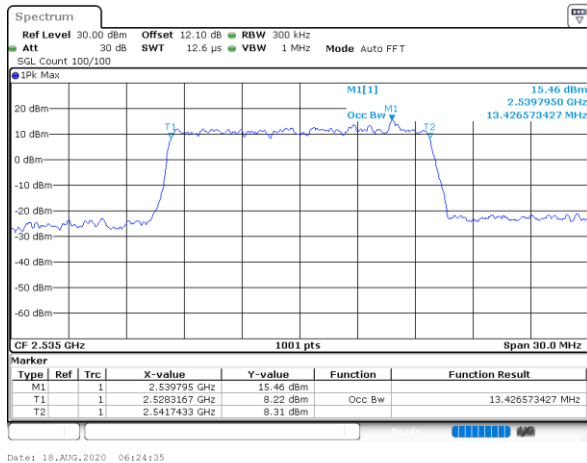
## Lowest Channel / 15MHz / QPSK



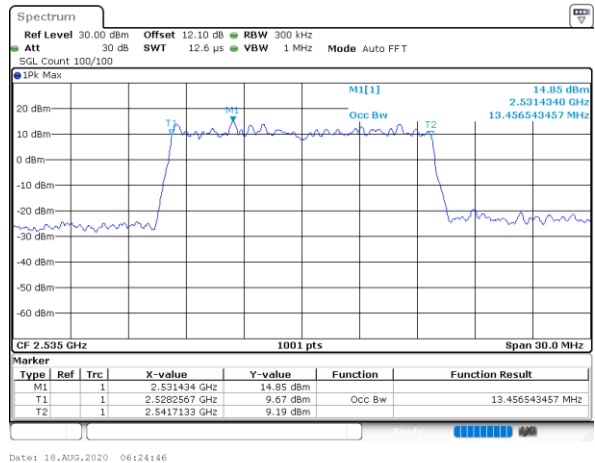
## Lowest Channel / 15MHz / 16QAM



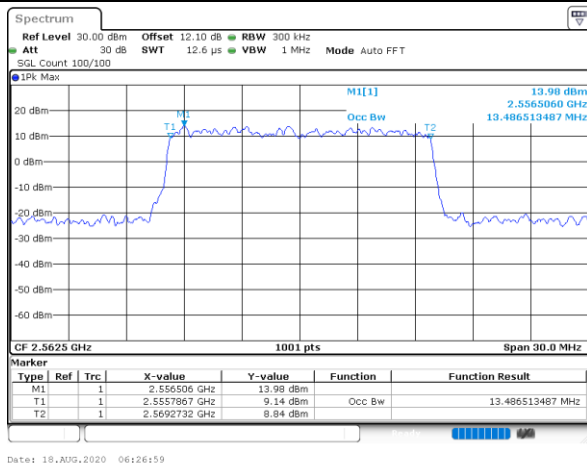
## Middle Channel / 15MHz / QPSK



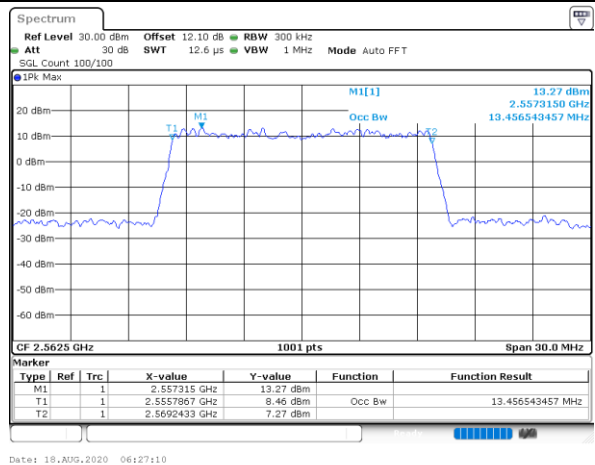
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



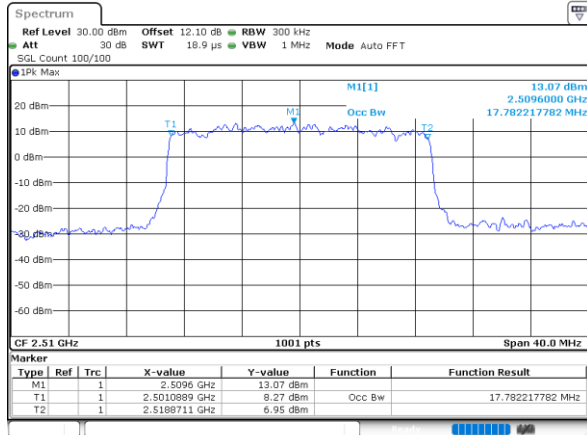
## Highest Channel / 15MHz / 16QAM



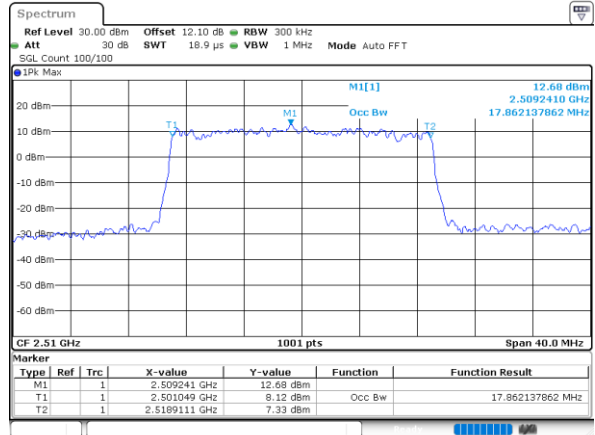


## LTE Band 7

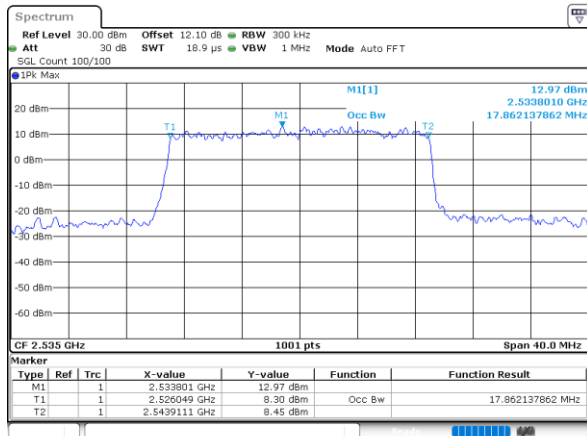
## Lowest Channel / 20MHz / QPSK



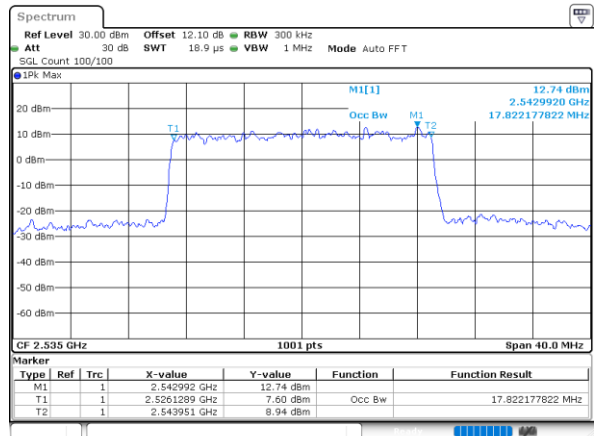
## Lowest Channel / 20MHz / 16QAM



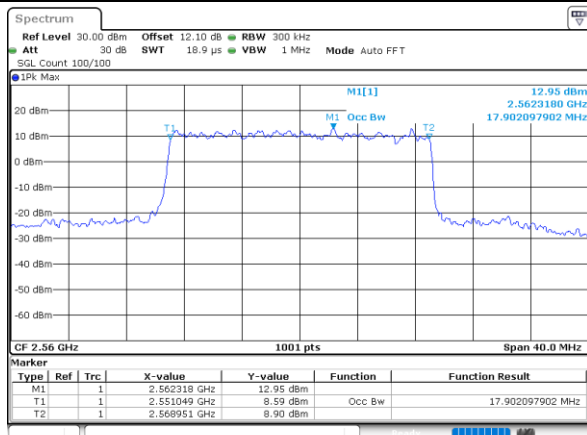
## Middle Channel / 20MHz / QPSK



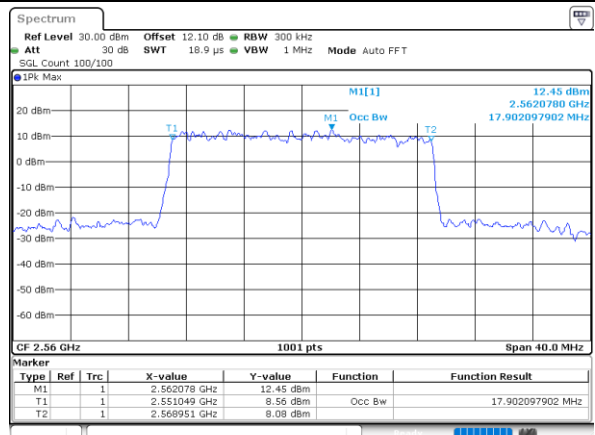
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



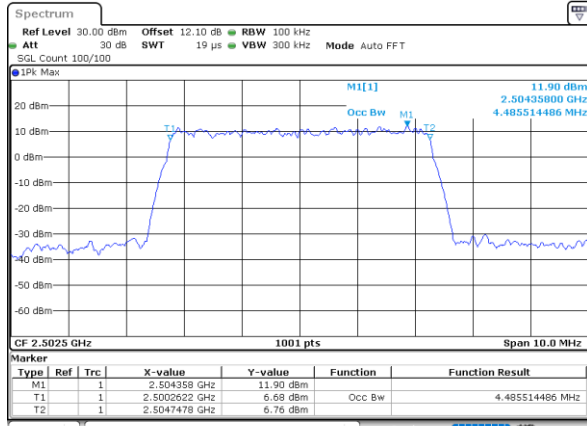
## Highest Channel / 20MHz / 16QAM



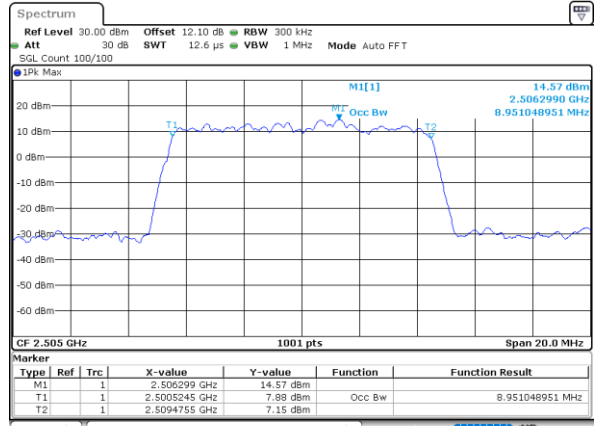


## LTE Band 7

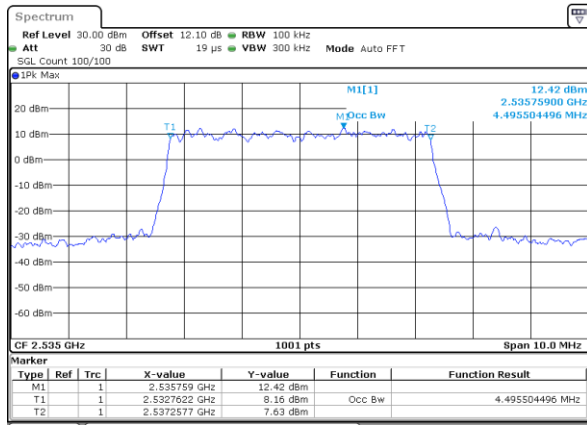
## Lowest Channel / 5MHz / 64QAM



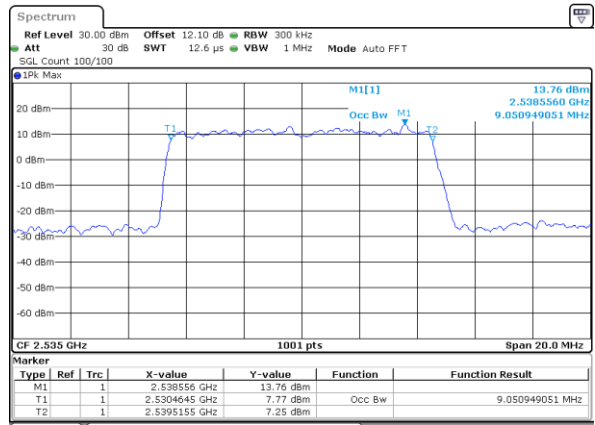
## Lowest Channel / 10MHz / 64QAM



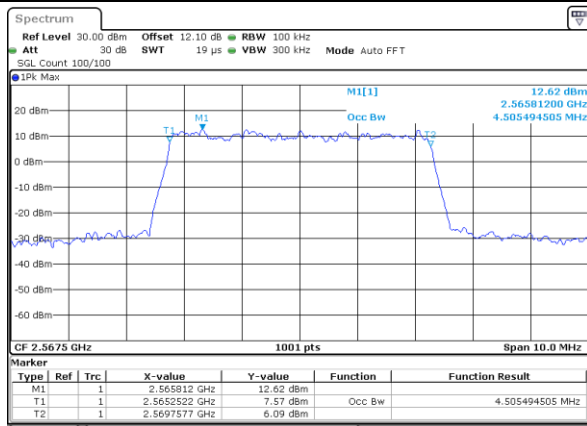
## Middle Channel / 5MHz / 64QAM



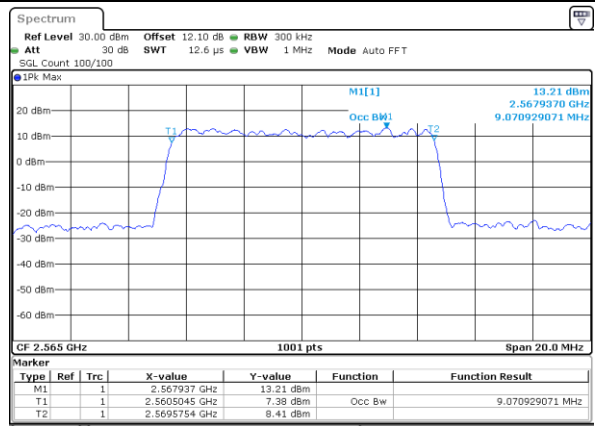
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



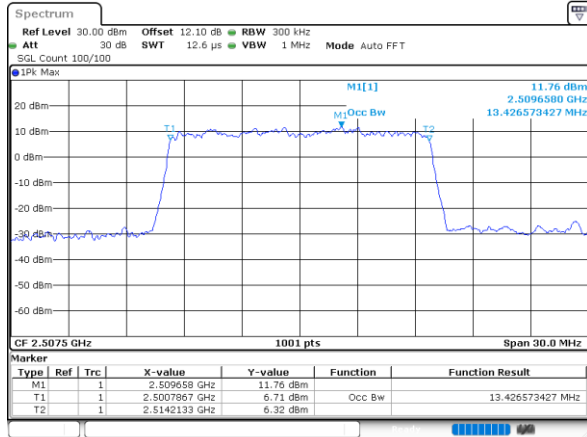
## Highest Channel / 10MHz / 64QAM



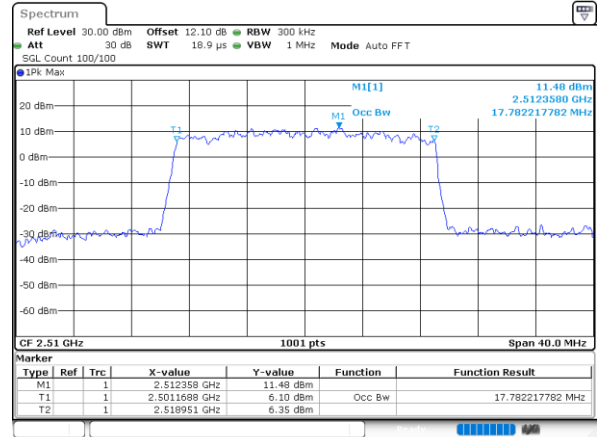


## LTE Band 7

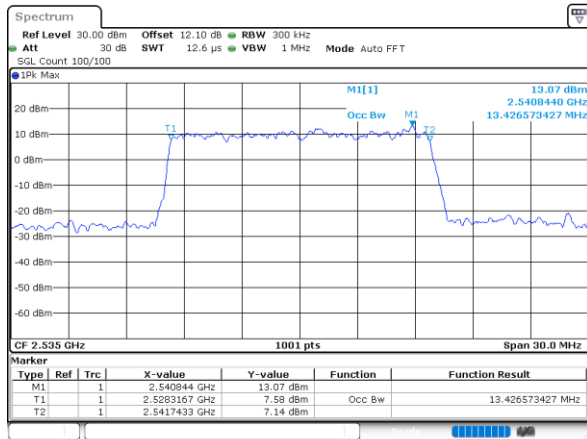
## Lowest Channel / 15MHz / 64QAM



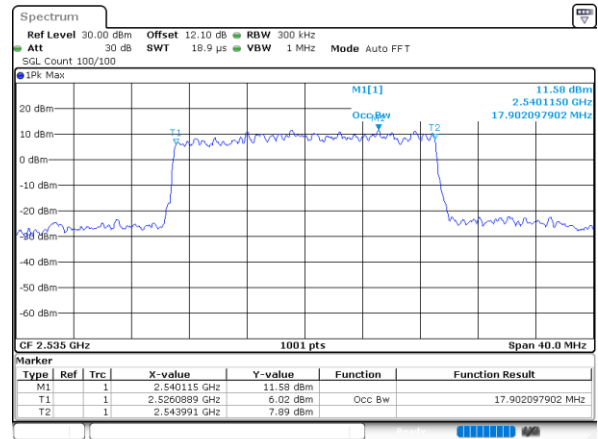
## Lowest Channel / 20MHz / 64QAM



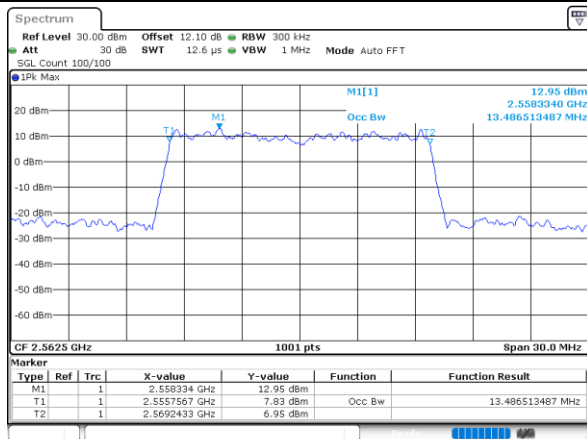
## Middle Channel / 15MHz / 64QAM



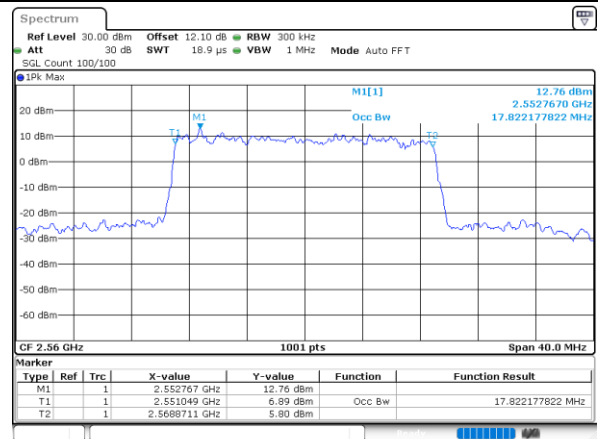
## Middle Channel / 20MHz / 64QAM

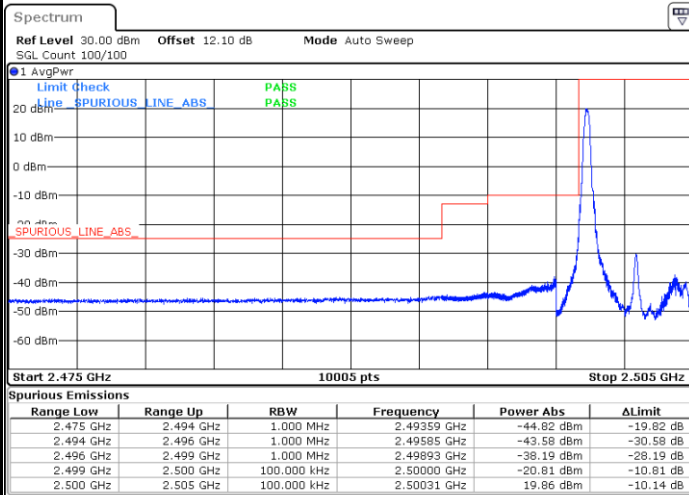
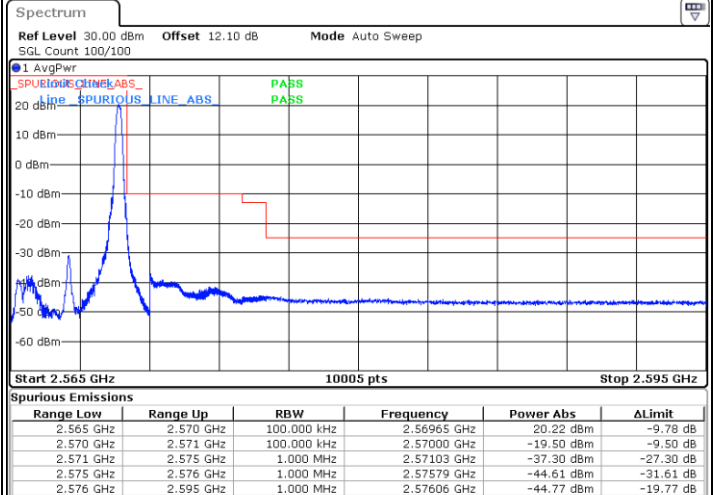
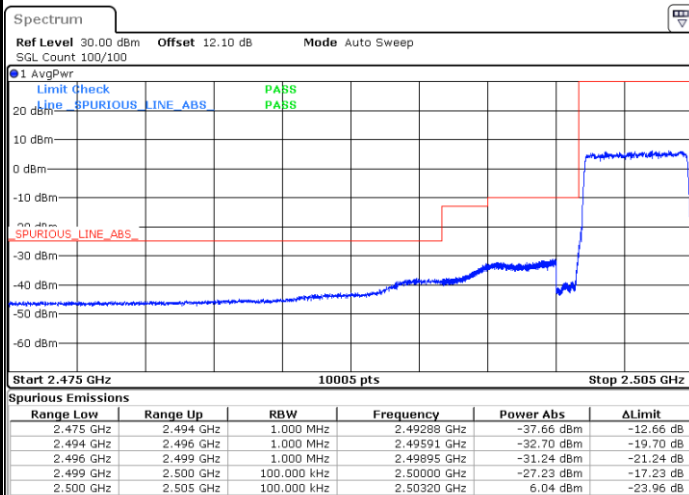
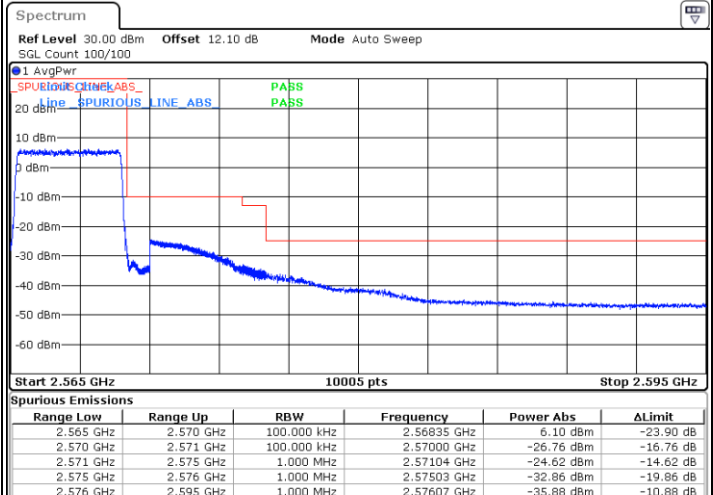


## Highest Channel / 15MHz / 64QAM



## Highest Channel / 20MHz / 64QAM

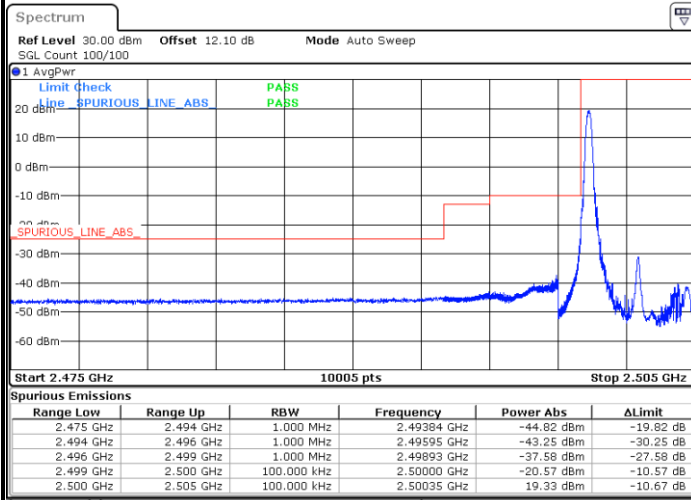


**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

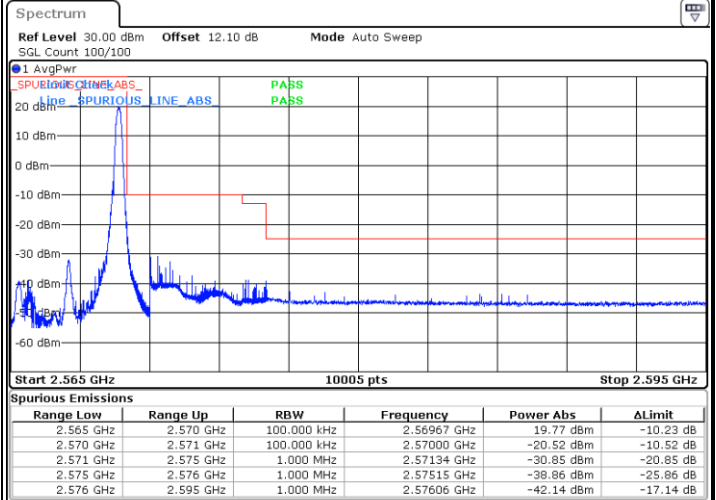


## LTE Band 7 / 5MHz / 16QAM

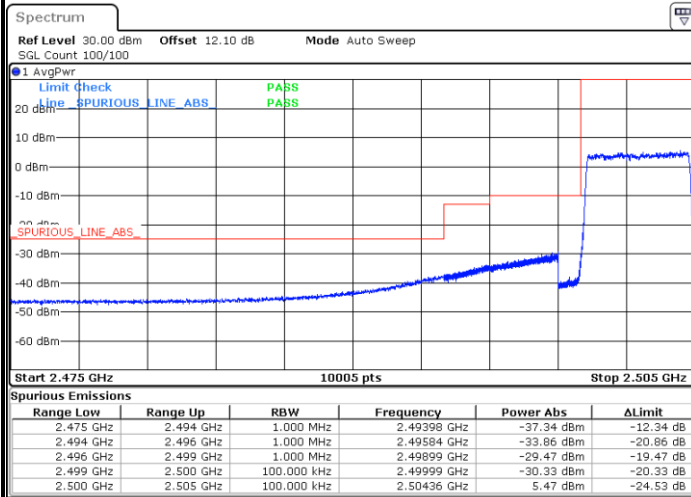
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

