



**Frequency Stability**

| Test Conditions  |                   | LTE Band 66 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0056                              | PASS    |
| 40               | Normal Voltage    | 0.0044                              |         |
| 30               | Normal Voltage    | 0.0064                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0001                              |         |
| 0                | Normal Voltage    | 0.0005                              |         |
| -10              | Normal Voltage    | 0.0033                              |         |
| -20              | Normal Voltage    | 0.0036                              |         |
| -30              | Normal Voltage    | 0.0063                              |         |
| 20               | Maximum Voltage   | 0.0003                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0042                              |         |

**Note:**

- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 66B

## 26dB Bandwidth

| Mode       | LTE Band 66B : 26dB BW(MHz) |             |            |
|------------|-----------------------------|-------------|------------|
| QPSK       |                             |             |            |
| BW         | 5MHz+5MHz                   | 5MHz+10MHz  | 5MHz+15MHz |
| Lowest CH  | 9.91                        | 14.54       | 18.86      |
| Middle CH  | 9.99                        | 14.60       | 18.90      |
| Highest CH | 9.99                        | 14.57       | 18.90      |
| BW         | 10MHz+5MHz                  | 10MHz+10MHz | 15MHz+5MHz |
| Lowest CH  | 14.60                       | 19.50       | 19.06      |
| Middle CH  | 14.72                       | 19.58       | 19.02      |
| Highest CH | 14.75                       | 19.70       | 19.18      |

| Mode       | LTE Band 66B : 26dB BW(MHz) |             |            |
|------------|-----------------------------|-------------|------------|
| 16QAM      |                             |             |            |
| BW         | 5MHz+5MHz                   | 5MHz+10MHz  | 5MHz+15MHz |
| Lowest CH  | 9.87                        | 14.57       | 18.90      |
| Middle CH  | 9.95                        | 14.57       | 18.82      |
| Highest CH | 9.95                        | 14.57       | 18.86      |
| BW         | 10MHz+5MHz                  | 10MHz+10MHz | 15MHz+5MHz |
| Lowest CH  | 14.75                       | 19.58       | 19.14      |
| Middle CH  | 14.81                       | 19.50       | 18.98      |
| Highest CH | 14.75                       | 19.78       | 19.18      |

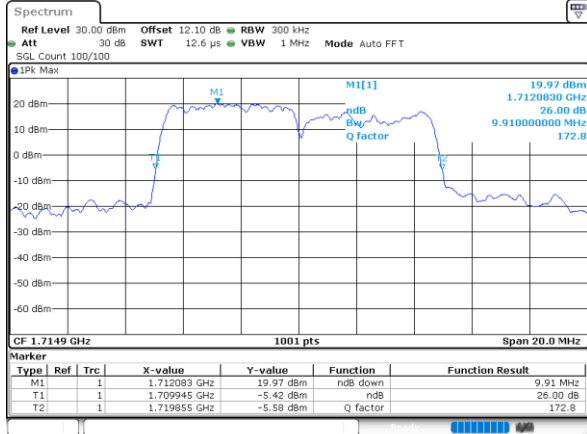
| Mode       | LTE Band 66B : 26dB BW(MHz) |             |            |
|------------|-----------------------------|-------------|------------|
| 64QAM      |                             |             |            |
| BW         | 5MHz+5MHz                   | 5MHz+10MHz  | 5MHz+15MHz |
| Lowest CH  | 9.91                        | 14.57       | 18.90      |
| Middle CH  | 9.95                        | 14.54       | 18.82      |
| Highest CH | 9.93                        | 14.60       | 18.94      |
| BW         | 10MHz+5MHz                  | 10MHz+10MHz | 15MHz+5MHz |
| Lowest CH  | 14.63                       | 19.58       | 18.98      |
| Middle CH  | 14.69                       | 19.78       | 18.86      |
| Highest CH | 14.78                       | 19.58       | 19.06      |



LTE Band 66B

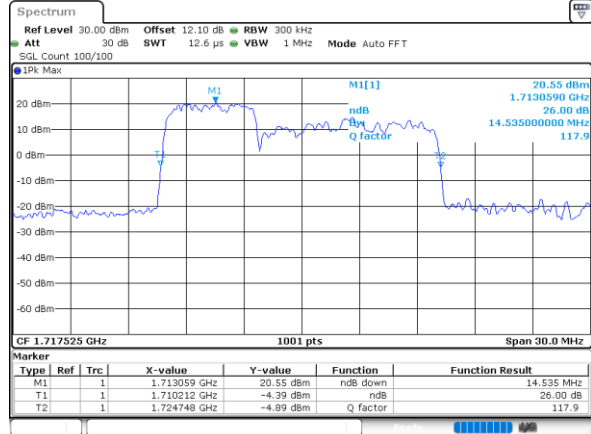
QPSK

Lowest Channel / 5MHz+5MHz



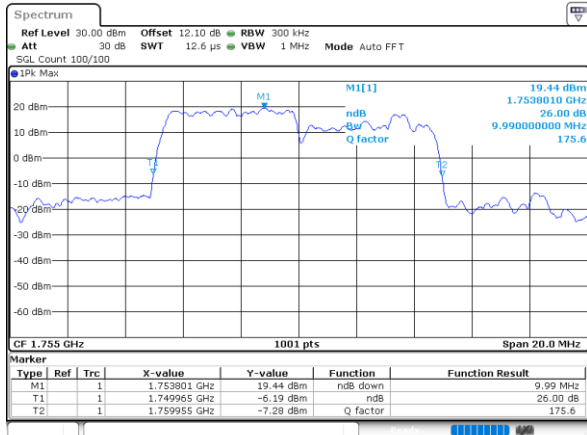
Date: 22\_JUL\_2020 04:08:30

Lowest Channel / 5MHz+10MHz



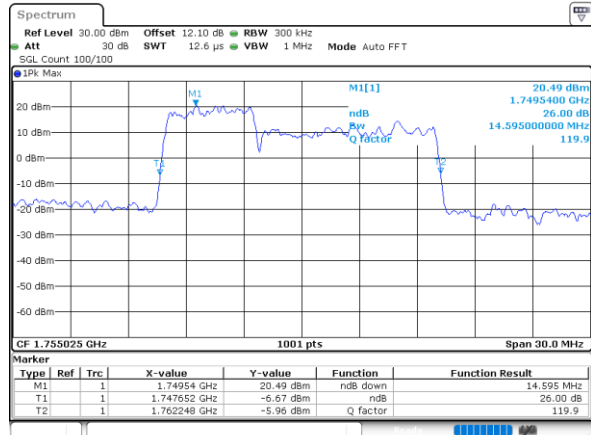
Date: 22\_JUL\_2020 03:47:18

Middle Channel / 5MHz+5MHz



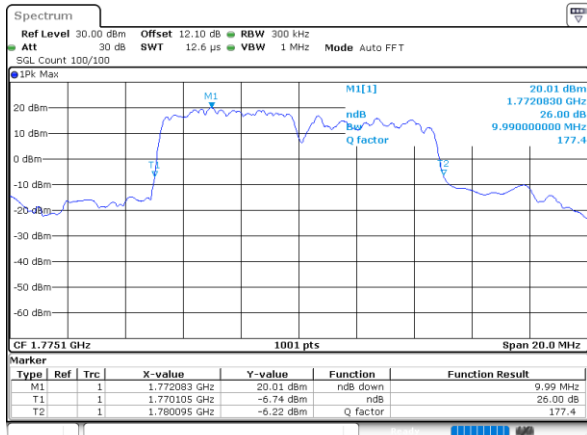
Date: 22\_JUL\_2020 23:28:38

Middle Channel / 5MHz+10MHz



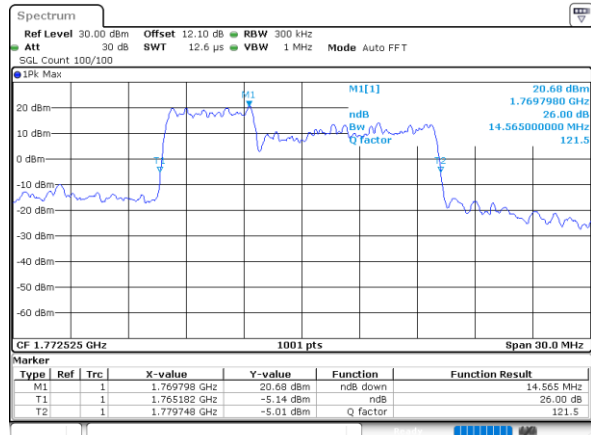
Date: 22\_JUL\_2020 22:49:26

Highest Channel / 5MHz+5MHz



Date: 22\_JUL\_2020 23:40:42

Highest Channel / 5MHz+10MHz



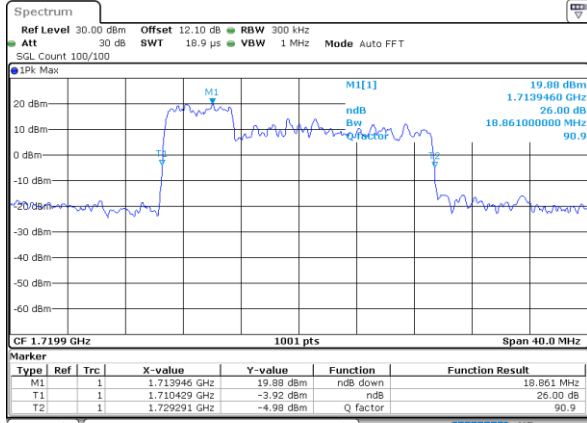
Date: 22\_JUL\_2020 23:02:59



LTE Band 66B

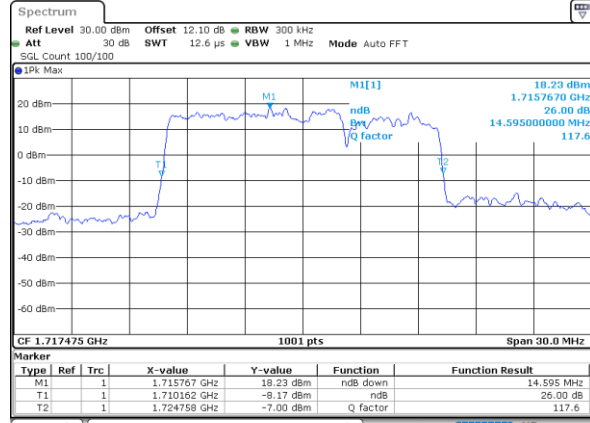
QPSK

Lowest Channel / 5MHz+15MHz



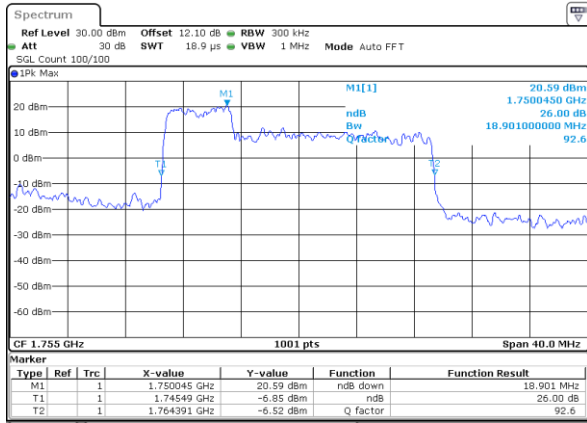
Date: 21\_JUL\_2020 23:42:59

Lowest Channel / 10MHz+5MHz



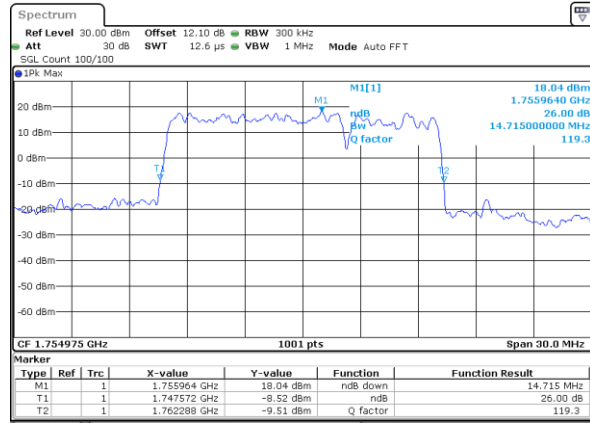
Date: 22\_JUL\_2020 02:41:24

Middle Channel / 5MHz+15MHz



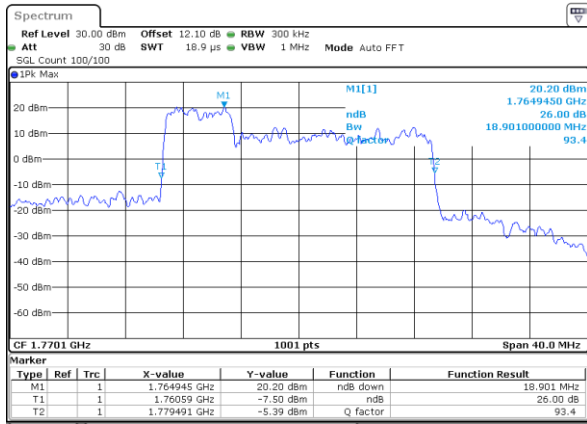
Date: 22\_JUL\_2020 00:16:48

Middle Channel / 10MHz+5MHz



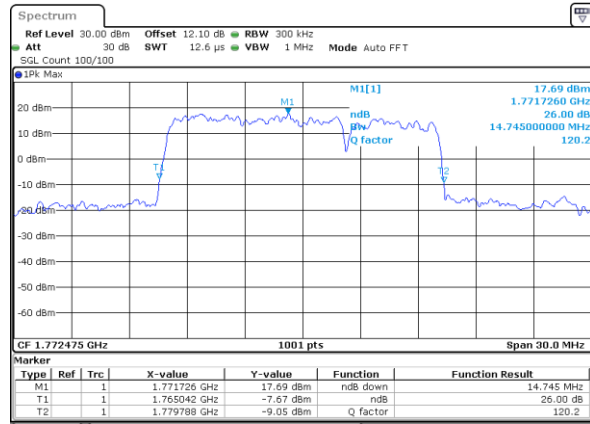
Date: 22\_JUL\_2020 03:04:33

Highest Channel / 5MHz+15MHz



Date: 22\_JUL\_2020 00:34:50

Highest Channel / 10MHz+5MHz



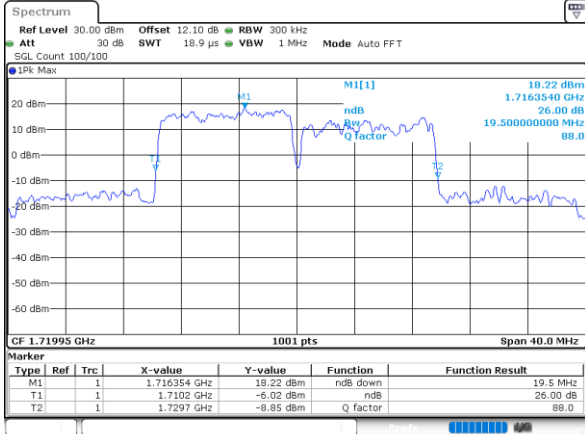
Date: 22\_JUL\_2020 03:17:53



LTE Band 66B

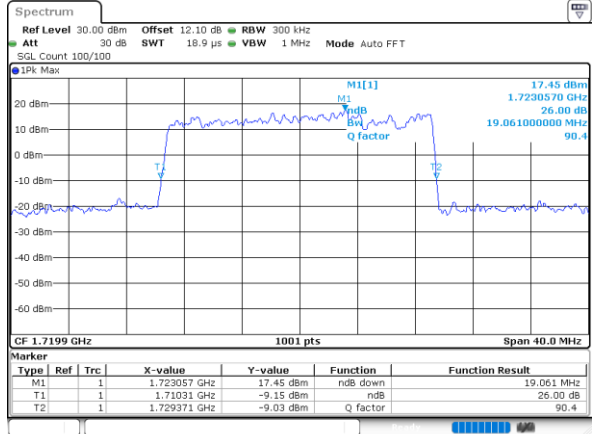
QPSK

Lowest Channel / 10MHz+10MHz



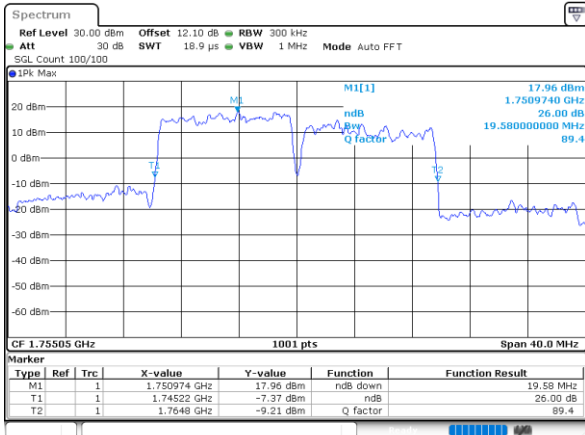
Date: 22.JUL.2020 02:12:23

Lowest Channel / 15MHz+5MHz



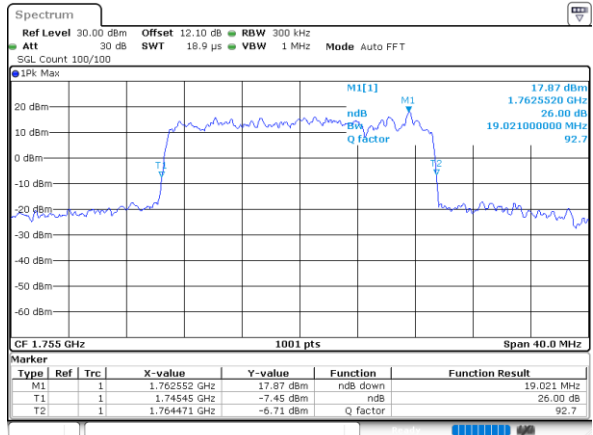
Date: 21.JUL.2020 21:44:24

Middle Channel / 10MHz+10MHz



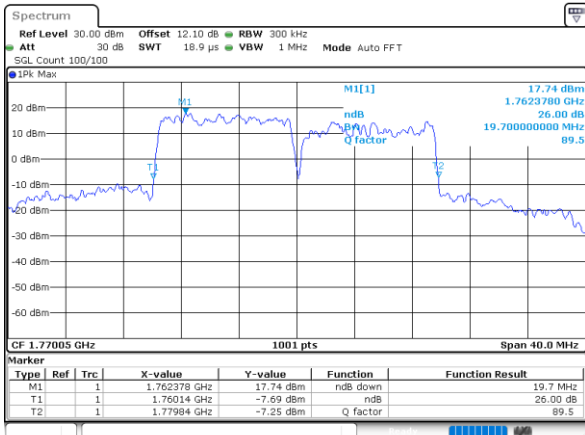
Date: 22.JUL.2020 01:57:33

Middle Channel / 15MHz+5MHz



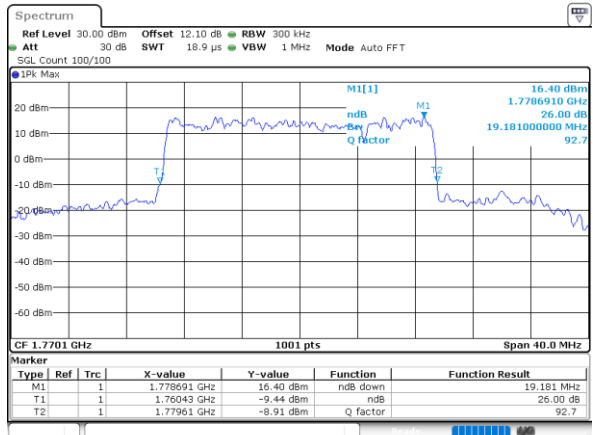
Date: 21.JUL.2020 22:13:14

Highest Channel / 10MHz+10MHz



Date: 22.JUL.2020 02:17:13

Highest Channel / 15MHz+5MHz



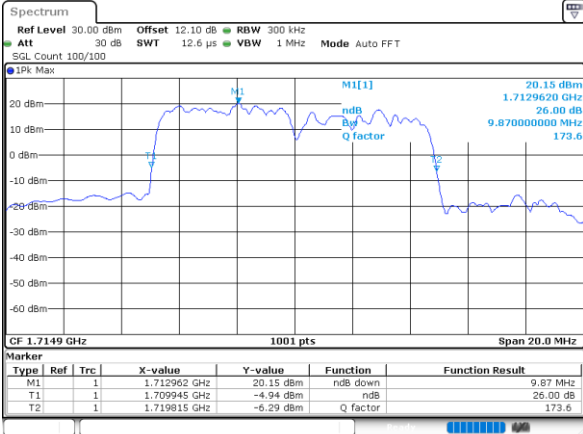
Date: 21.JUL.2020 22:27:24



LTE Band 66B

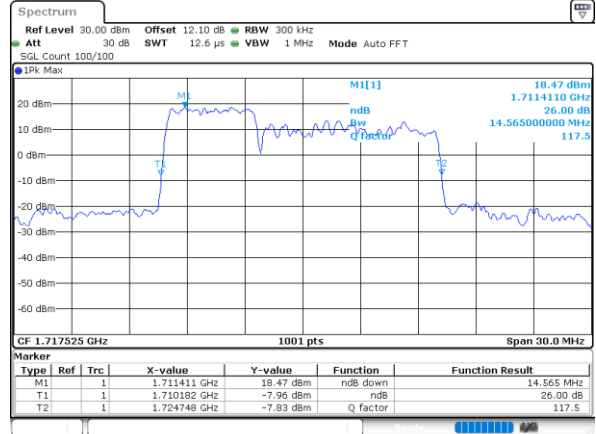
16QAM

Lowest Channel / 5MHz+5MHz



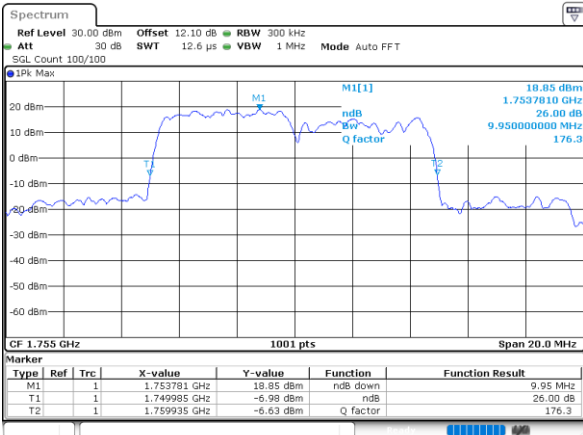
Date: 22\_JUL\_2020 04:08:07

Lowest Channel / 5MHz+10MHz



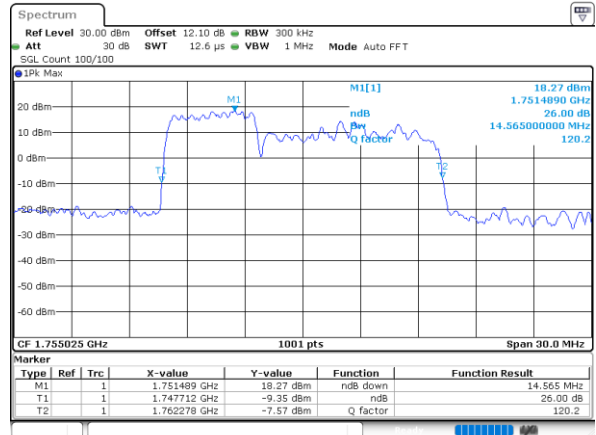
Date: 22\_JUL\_2020 03:46:55

Middle Channel / 5MHz+5MHz



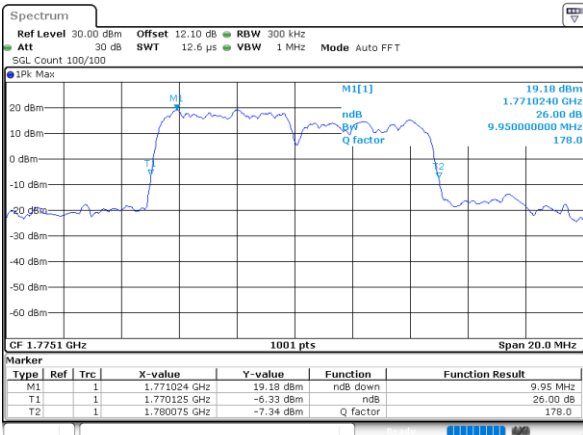
Date: 22\_JUL\_2020 23:28:15

Middle Channel / 5MHz+10MHz



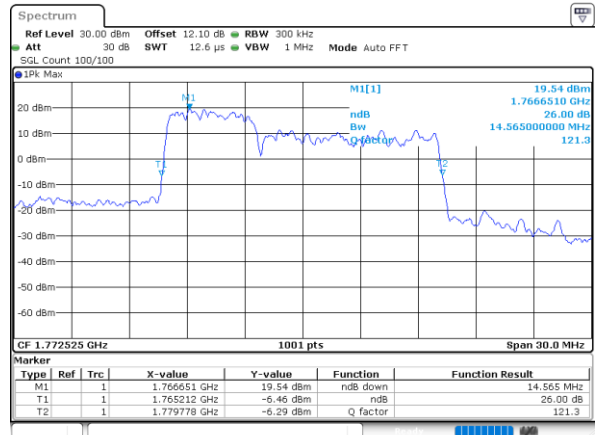
Date: 22\_JUL\_2020 22:49:03

Highest Channel / 5MHz+5MHz



Date: 22\_JUL\_2020 23:41:05

Highest Channel / 5MHz+10MHz



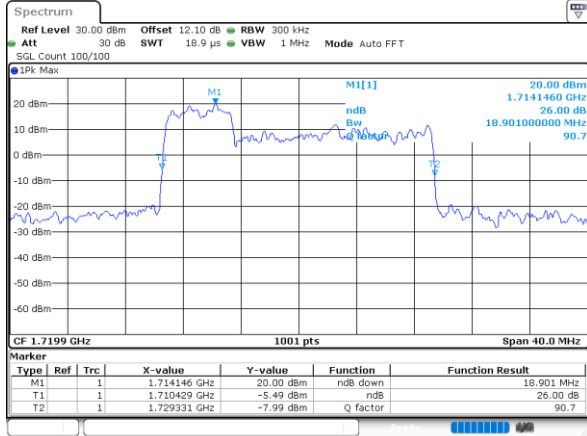
Date: 22\_JUL\_2020 23:03:22



LTE Band 66B

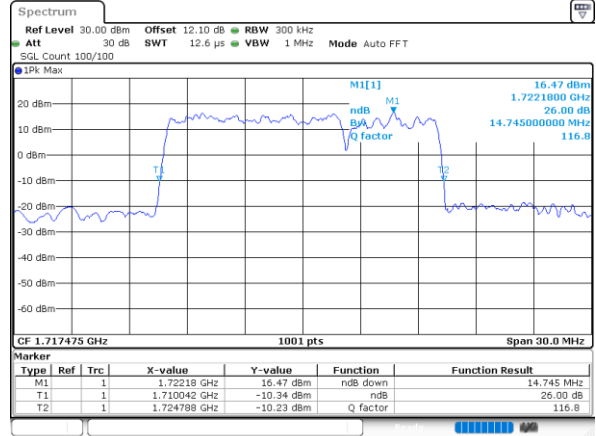
16QAM

Lowest Channel / 5MHz+15MHz



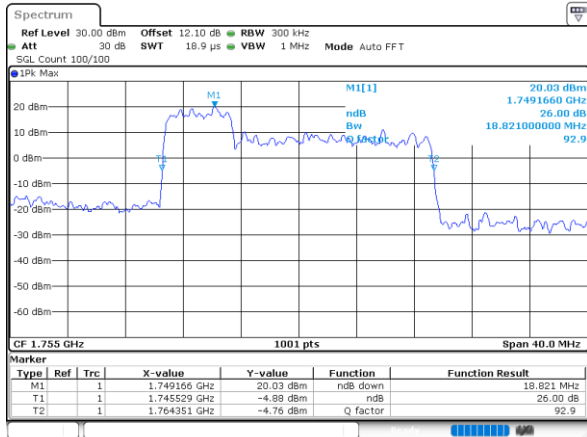
Date: 21\_JUL\_2020 23:42:36

Lowest Channel / 10MHz+5MHz



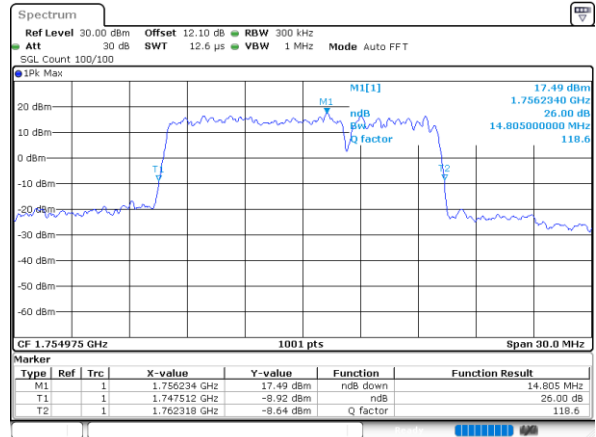
Date: 22\_JUL\_2020 02:41:01

Middle Channel / 5MHz+15MHz



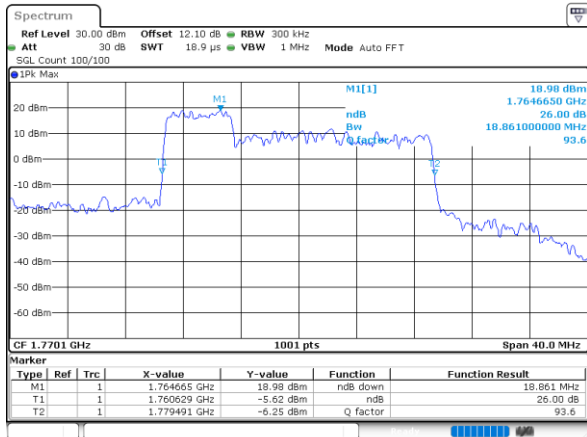
Date: 22\_JUL\_2020 00:16:25

Middle Channel / 10MHz+5MHz



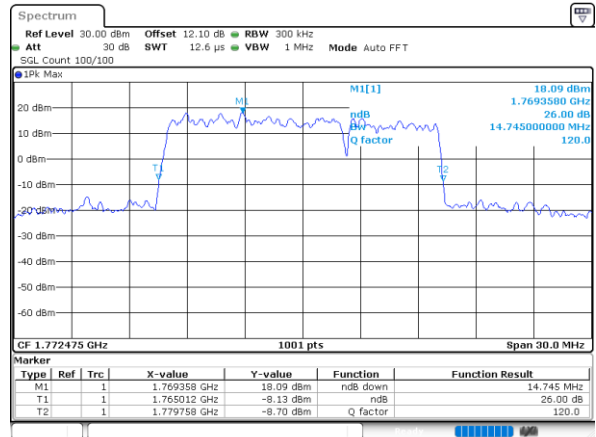
Date: 22\_JUL\_2020 03:04:10

Highest Channel / 5MHz+15MHz



Date: 22\_JUL\_2020 00:35:13

Highest Channel / 10MHz+5MHz



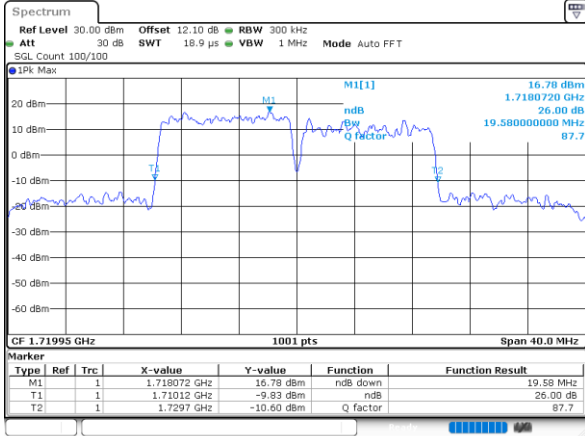
Date: 22\_JUL\_2020 03:18:16



LTE Band 66B

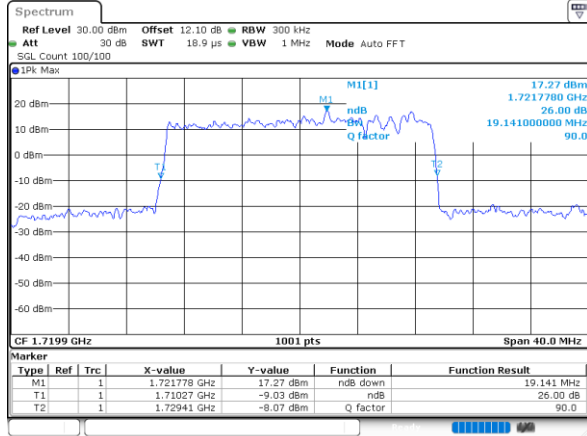
16QAM

Lowest Channel / 10MHz+10MHz



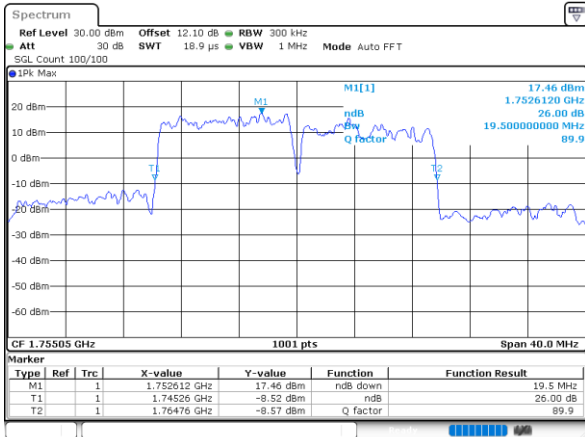
Date: 22\_JUL\_2020 02:11:42

Lowest Channel / 15MHz+5MHz



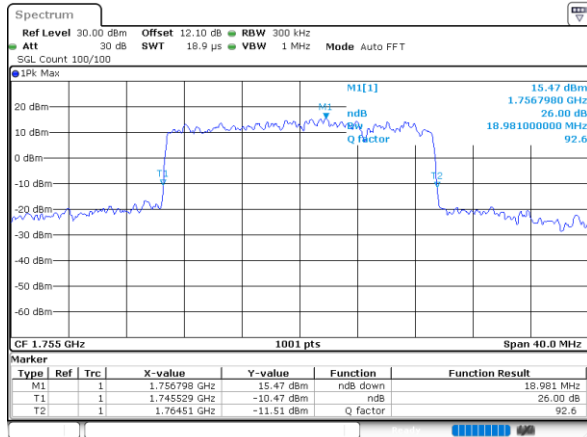
Date: 21\_JUL\_2020 21:44:01

Middle Channel / 10MHz+10MHz



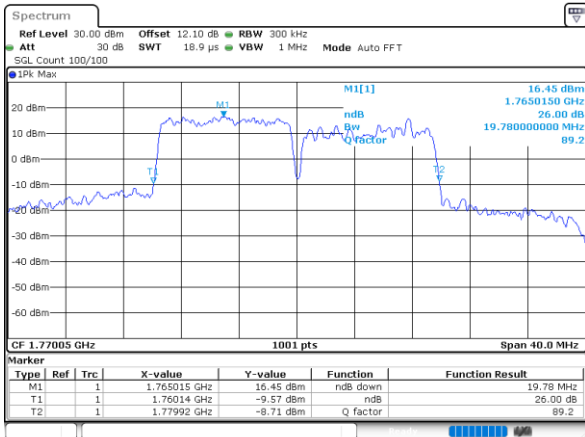
Date: 22\_JUL\_2020 01:58:32

Middle Channel / 15MHz+5MHz



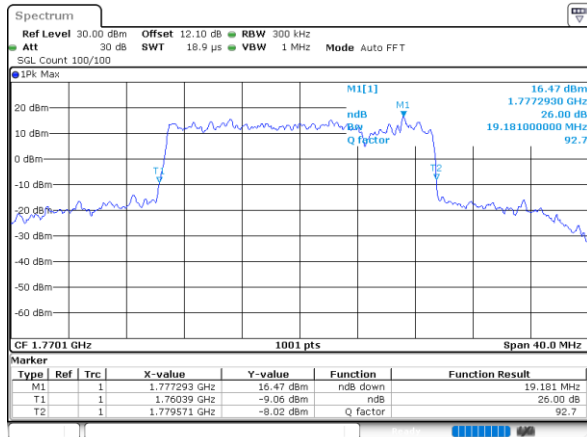
Date: 21\_JUL\_2020 22:12:51

Highest Channel / 10MHz+10MHz



Date: 22\_JUL\_2020 02:17:37

Highest Channel / 15MHz+5MHz



Date: 21\_JUL\_2020 22:27:47

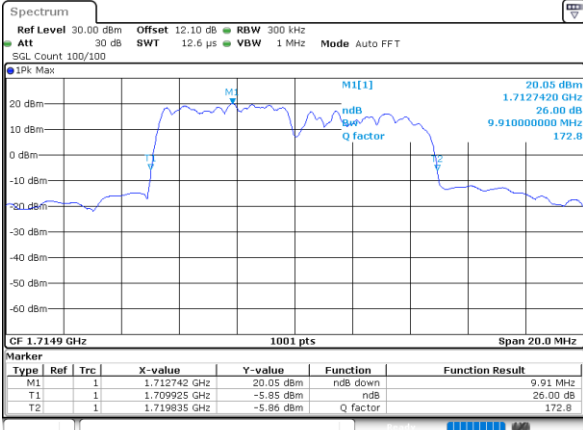




LTE Band 66B

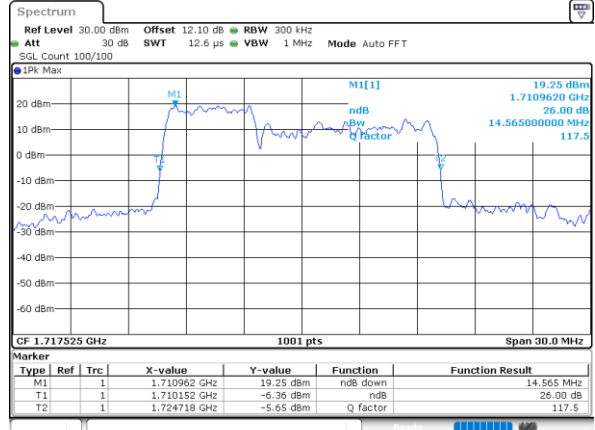
64QAM

Lowest Channel / 5MHz+5MHz



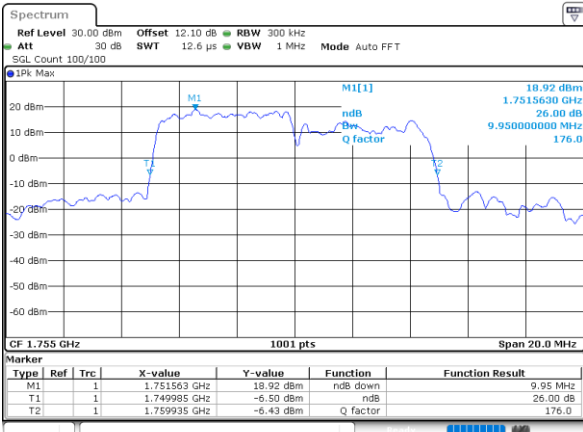
Date: 22\_JUL\_2020 04:07:44

Lowest Channel / 5MHz+10MHz



Date: 22\_JUL\_2020 03:46:32

Middle Channel / 5MHz+5MHz



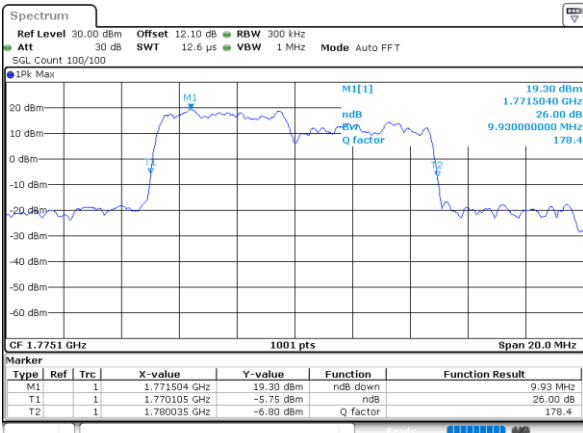
Date: 22\_JUL\_2020 23:27:52

Middle Channel / 5MHz+10MHz



Date: 22\_JUL\_2020 22:48:40

Highest Channel / 5MHz+5MHz



Date: 22\_JUL\_2020 23:41:28

Highest Channel / 5MHz+10MHz



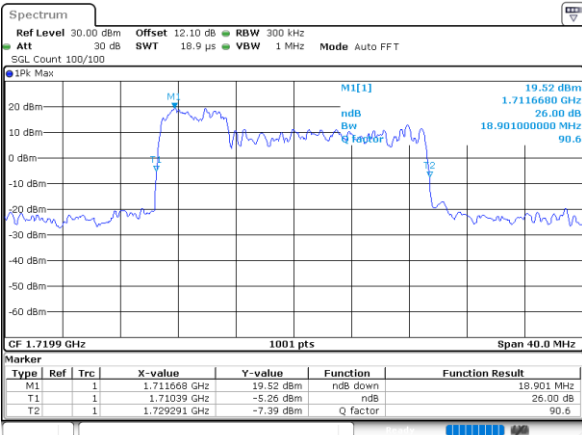
Date: 22\_JUL\_2020 23:03:44



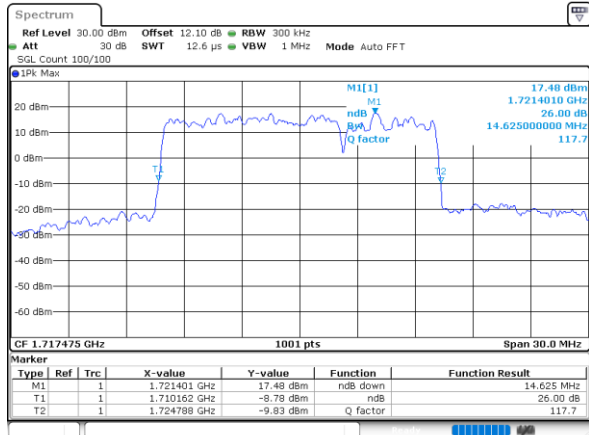
LTE Band 66B

64QAM

Lowest Channel / 5MHz+15MHz



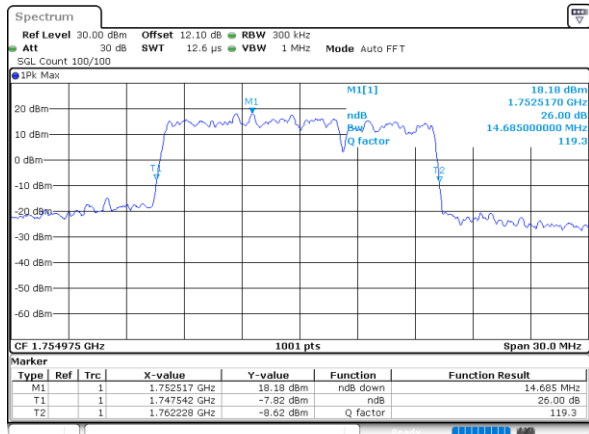
Lowest Channel / 10MHz+5MHz



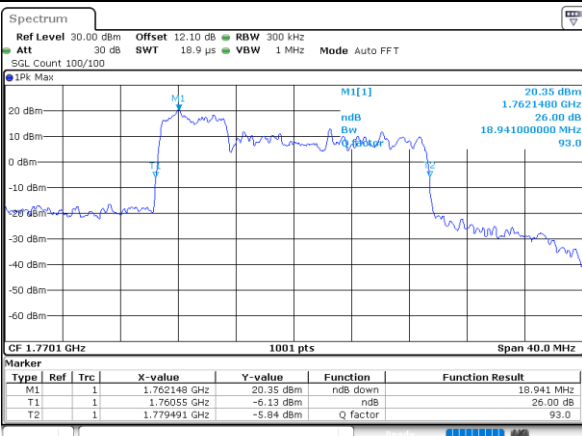
Middle Channel / 5MHz+15MHz



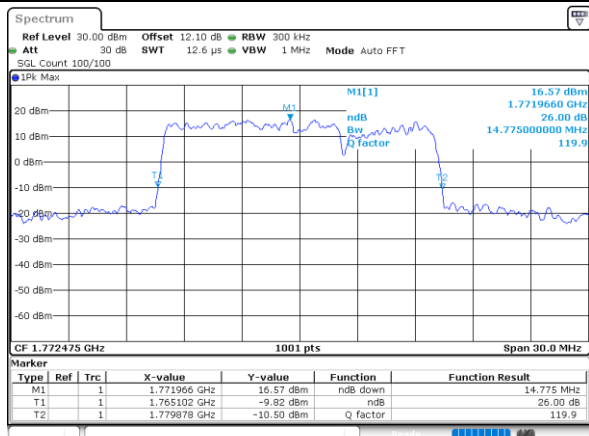
Middle Channel / 10MHz+5MHz



Highest Channel / 5MHz+15MHz



Highest Channel / 10MHz+5MHz

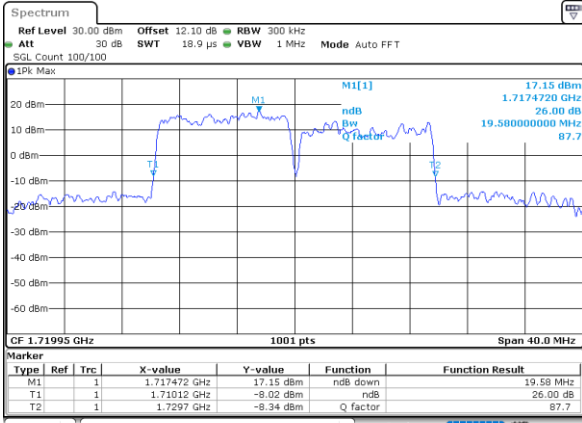




LTE Band 66B

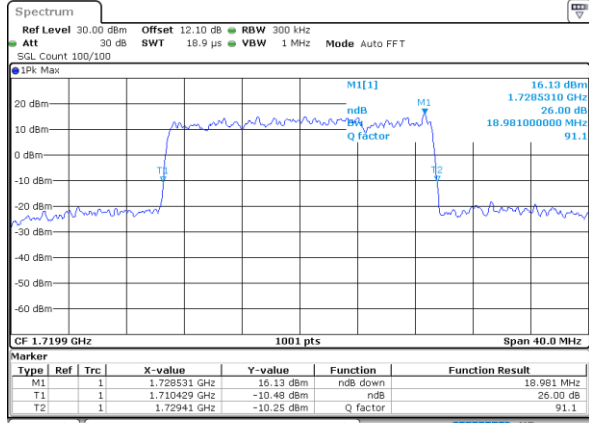
64QAM

Lowest Channel / 10MHz+10MHz



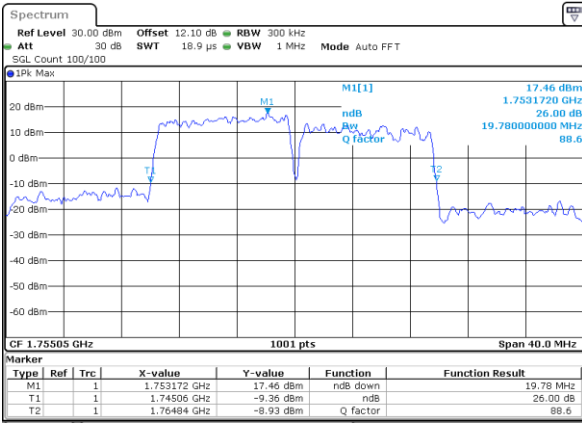
Date: 22\_JUL\_2020 02:11:02

Lowest Channel / 15MHz+5MHz



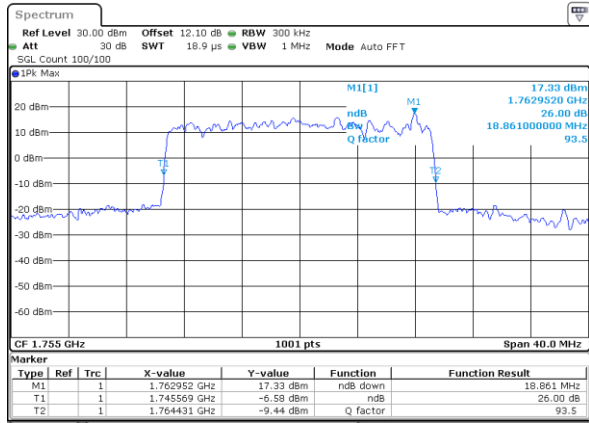
Date: 21\_JUL\_2020 21:43:38

Middle Channel / 10MHz+10MHz



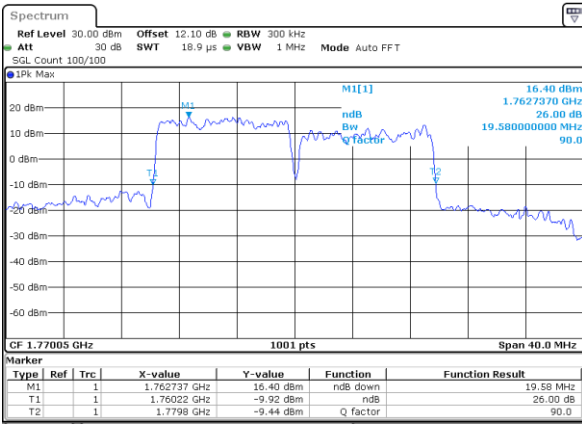
Date: 22\_JUL\_2020 01:59:10

Middle Channel / 15MHz+5MHz



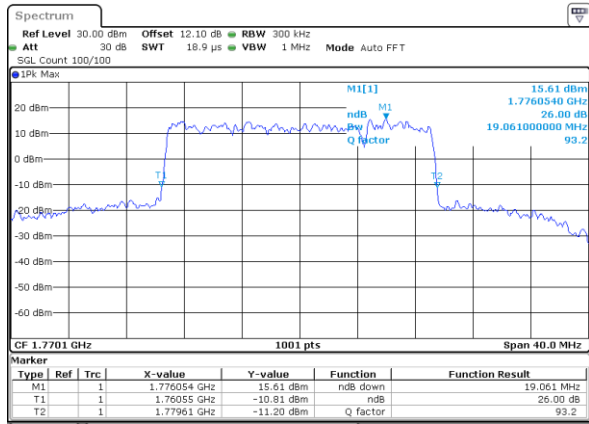
Date: 21\_JUL\_2020 22:12:28

Highest Channel / 10MHz+10MHz



Date: 22\_JUL\_2020 02:18:18

Highest Channel / 15MHz+5MHz



Date: 21\_JUL\_2020 22:28:10



Occupied Bandwidth

| Mode       | LTE Band 66B : 99%OBW(MHz) |             |            |
|------------|----------------------------|-------------|------------|
| QPSK       |                            |             |            |
| BW         | 5MHz+5MHz                  | 5MHz+10MHz  | 5MHz+15MHz |
| Lowest CH  | 9.33                       | 13.85       | 18.14      |
| Middle CH  | 9.27                       | 13.76       | 18.10      |
| Highest CH | 9.23                       | 13.91       | 18.10      |
| BW         | 10MHz+5MHz                 | 10MHz+10MHz | 15MHz+5MHz |
| Lowest CH  | 13.85                      | 18.74       | 18.06      |
| Middle CH  | 13.79                      | 18.78       | 18.10      |
| Highest CH | 13.94                      | 18.82       | 18.26      |

| Mode       | LTE Band 66B : 99%OBW(MHz) |             |            |
|------------|----------------------------|-------------|------------|
| 16QAM      |                            |             |            |
| BW         | 5MHz+5MHz                  | 5MHz+10MHz  | 5MHz+15MHz |
| Lowest CH  | 9.25                       | 13.88       | 18.06      |
| Middle CH  | 9.35                       | 13.82       | 17.98      |
| Highest CH | 9.31                       | 13.94       | 18.06      |
| BW         | 10MHz+5MHz                 | 10MHz+10MHz | 15MHz+5MHz |
| Lowest CH  | 13.82                      | 18.62       | 18.22      |
| Middle CH  | 13.79                      | 18.82       | 18.26      |
| Highest CH | 13.79                      | 18.66       | 18.30      |

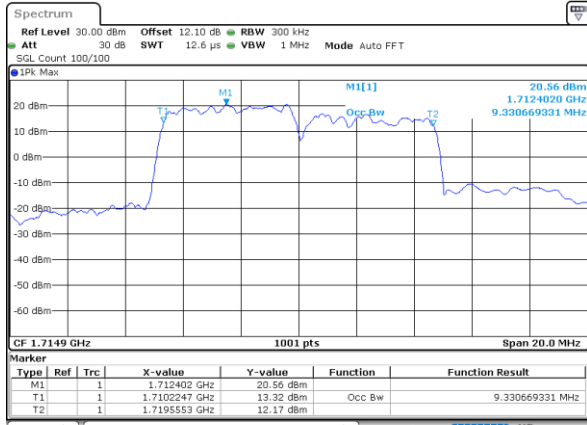
| Mode       | LTE Band 66B : 99%OBW(MHz) |             |            |
|------------|----------------------------|-------------|------------|
| 64QAM      |                            |             |            |
| BW         | 5MHz+5MHz                  | 5MHz+10MHz  | 5MHz+15MHz |
| Lowest CH  | 9.29                       | 13.82       | 18.14      |
| Middle CH  | 9.29                       | 13.91       | 18.02      |
| Highest CH | 9.37                       | 13.91       | 18.22      |
| BW         | 10MHz+5MHz                 | 10MHz+10MHz | 15MHz+5MHz |
| Lowest CH  | 13.82                      | 18.66       | 18.22      |
| Middle CH  | 13.85                      | 18.70       | 18.06      |
| Highest CH | 13.88                      | 18.78       | 18.14      |



LTE Band 66B

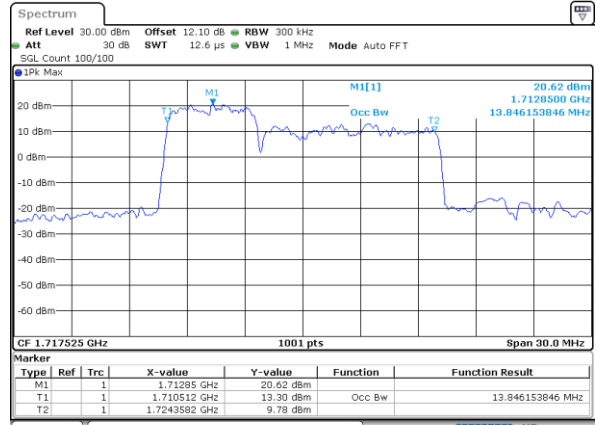
QPSK

Lowest Channel / 5MHz+5MHz



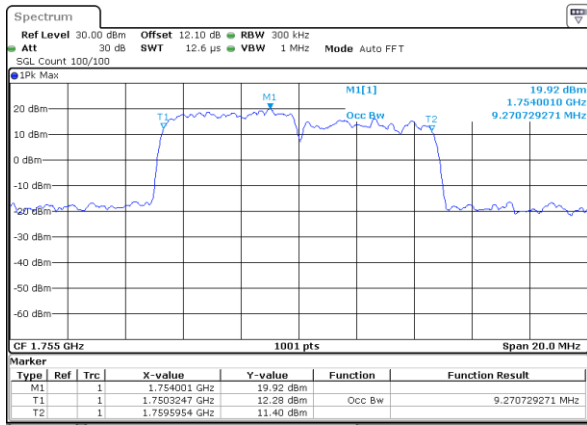
Date: 22\_JUL\_2020 04:06:37

Lowest Channel / 5MHz+10MHz



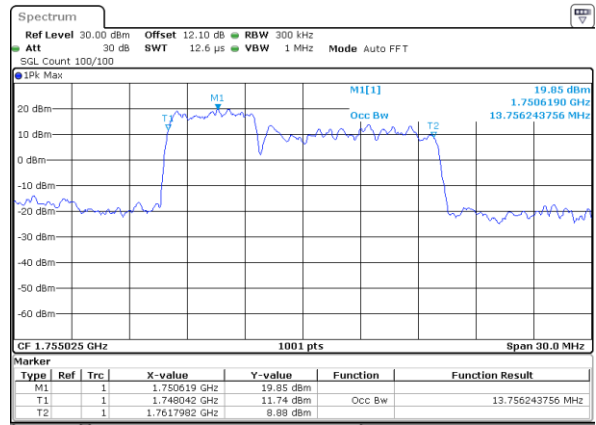
Date: 22\_JUL\_2020 03:45:25

Middle Channel / 5MHz+5MHz



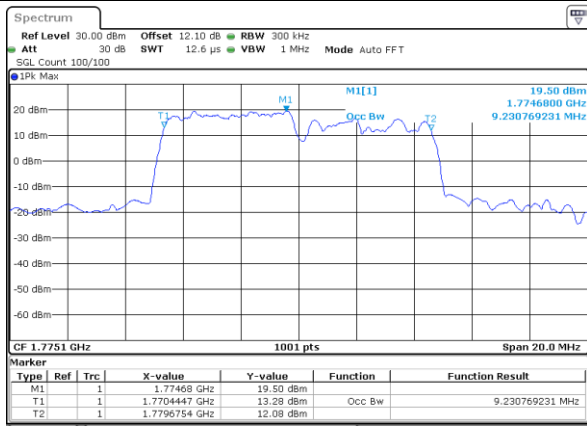
Date: 22\_JUL\_2020 23:16:44

Middle Channel / 5MHz+10MHz



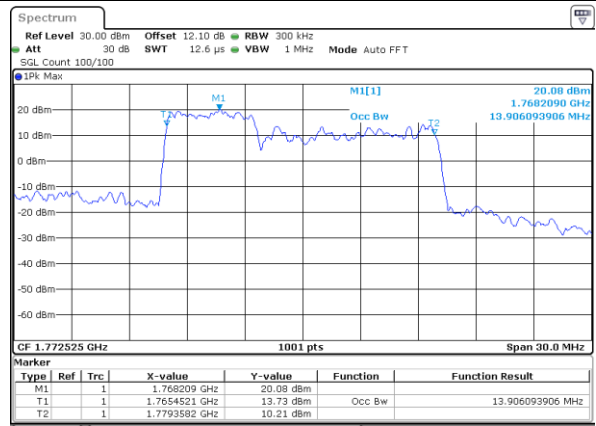
Date: 22\_JUL\_2020 22:47:32

Highest Channel / 5MHz+5MHz



Date: 22\_JUL\_2020 23:40:20

Highest Channel / 5MHz+10MHz



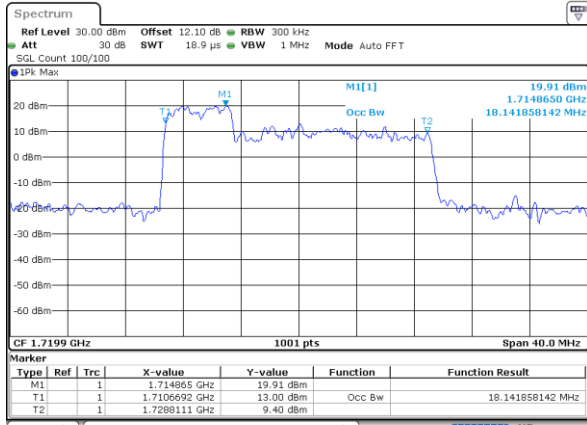
Date: 22\_JUL\_2020 23:02:37



LTE Band 66B

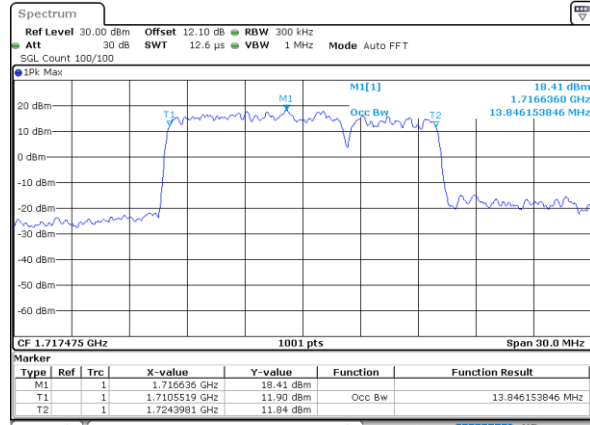
QPSK

Lowest Channel / 5MHz+15MHz



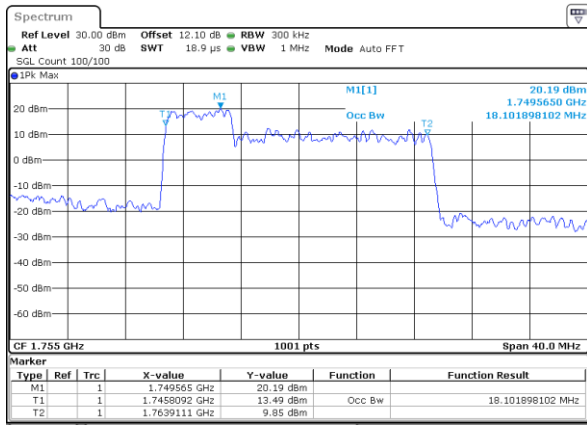
Date: 21.JUL.2020 23:41:05

Lowest Channel / 10MHz+5MHz



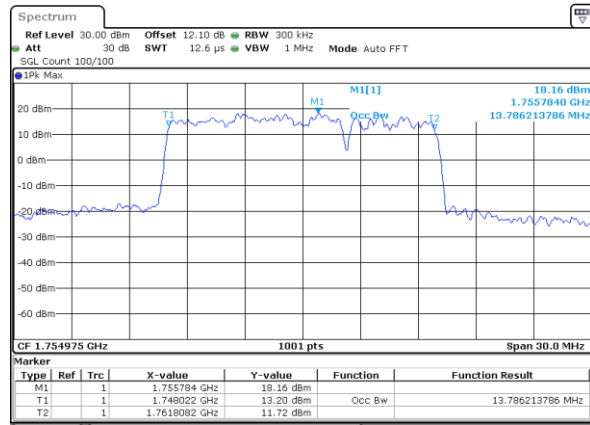
Date: 22.JUL.2020 02:13:10

Middle Channel / 5MHz+15MHz



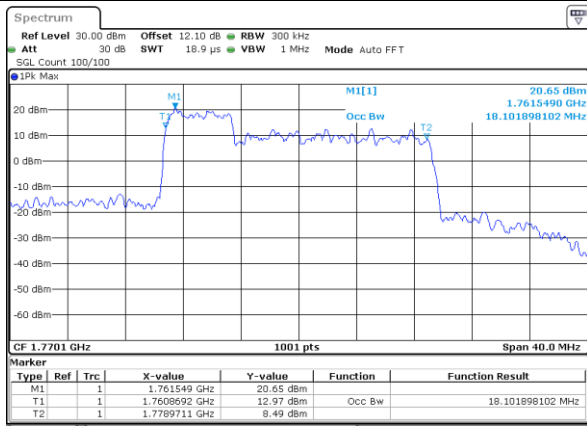
Date: 22.JUL.2020 00:14:55

Middle Channel / 10MHz+5MHz



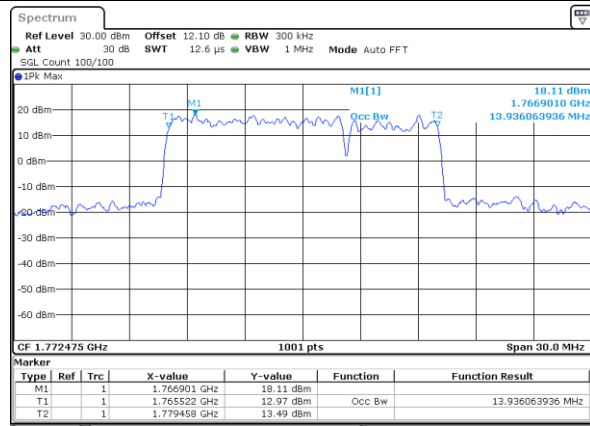
Date: 22.JUL.2020 03:10:19

Highest Channel / 5MHz+15MHz



Date: 22.JUL.2020 00:14:28

Highest Channel / 10MHz+5MHz



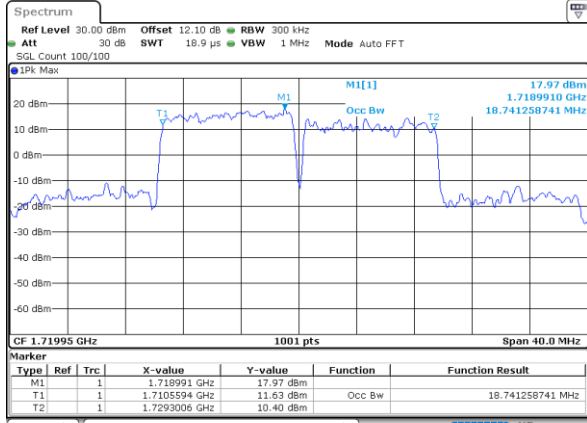
Date: 22.JUL.2020 03:17:11



LTE Band 66B

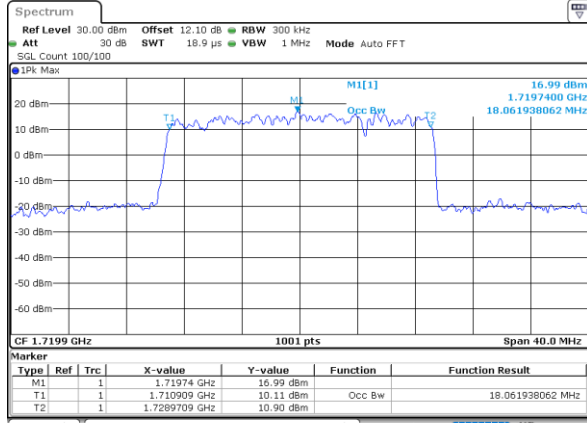
QPSK

Lowest Channel / 10MHz+10MHz



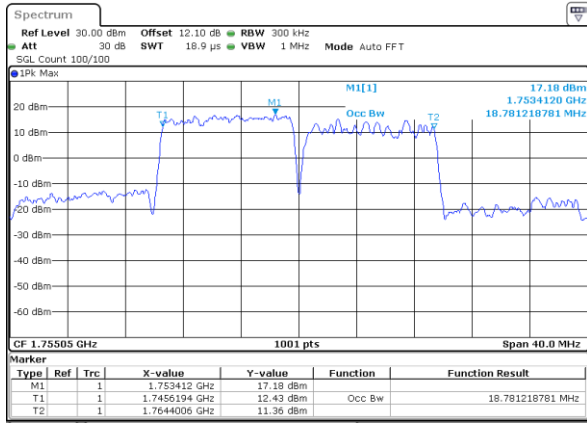
Date: 22.JUL.2020 00:59:53

Lowest Channel / 15MHz+5MHz



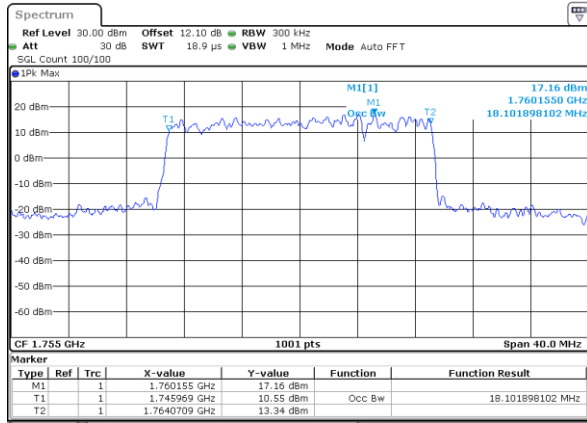
Date: 21.JUL.2020 21:42:30

Middle Channel / 10MHz+10MHz



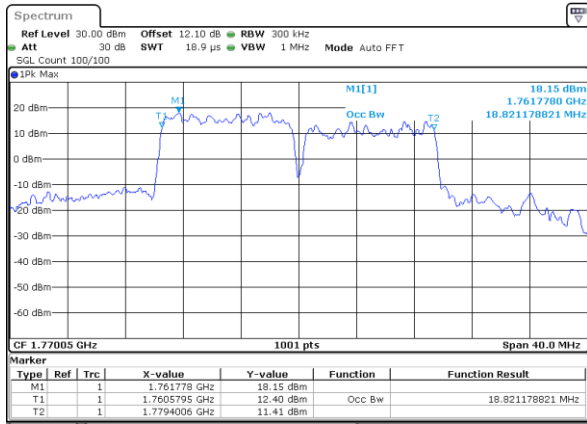
Date: 22.JUL.2020 01:44:51

Middle Channel / 15MHz+5MHz



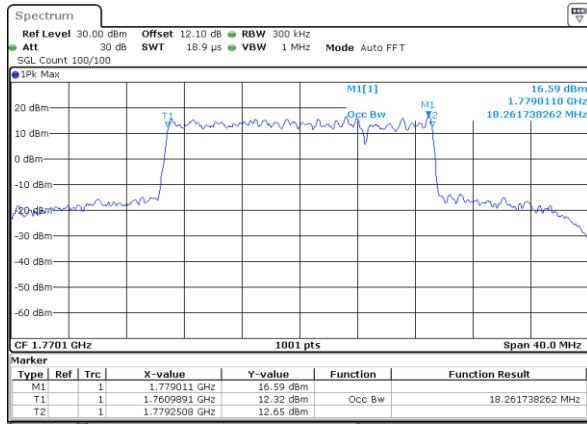
Date: 21.JUL.2020 22:11:20

Highest Channel / 10MHz+10MHz



Date: 22.JUL.2020 02:19:27

Highest Channel / 15MHz+5MHz



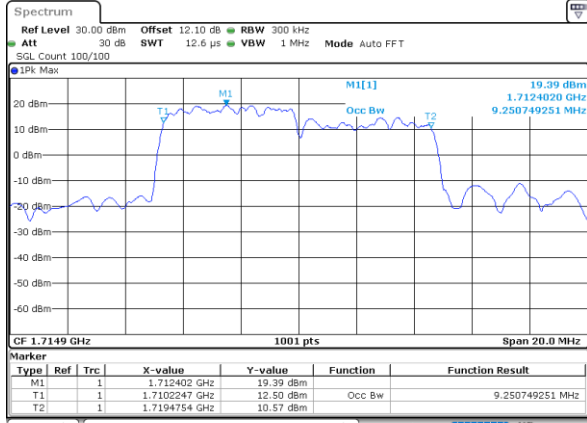
Date: 21.JUL.2020 22:27:02



LTE Band 66B

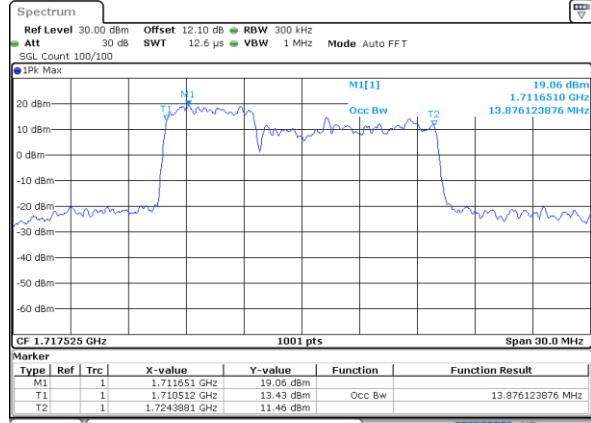
16QAM

Lowest Channel / 5MHz+5MHz



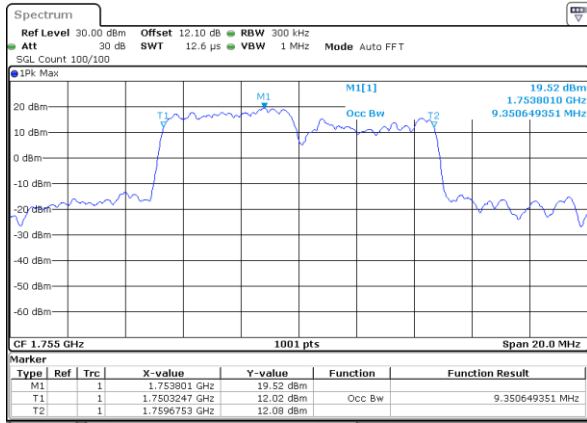
Date: 22\_JUL\_2020 04:07:00

Lowest Channel / 5MHz+10MHz



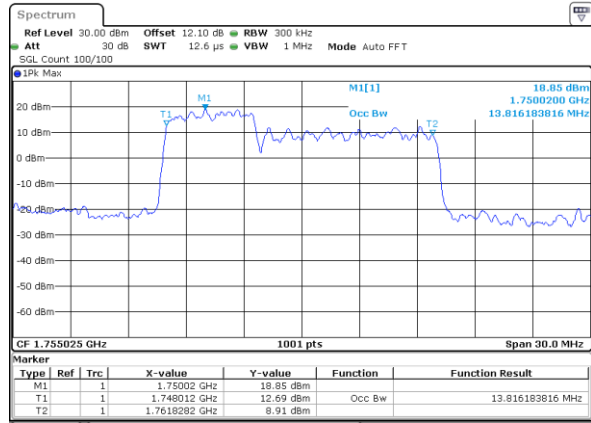
Date: 22\_JUL\_2020 03:45:48

Middle Channel / 5MHz+5MHz



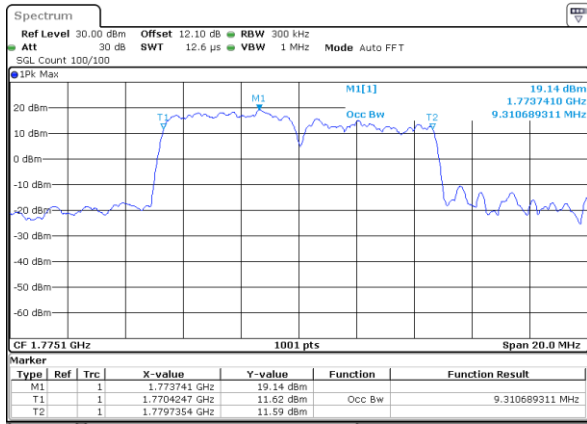
Date: 22\_JUL\_2020 23:27:07

Middle Channel / 5MHz+10MHz



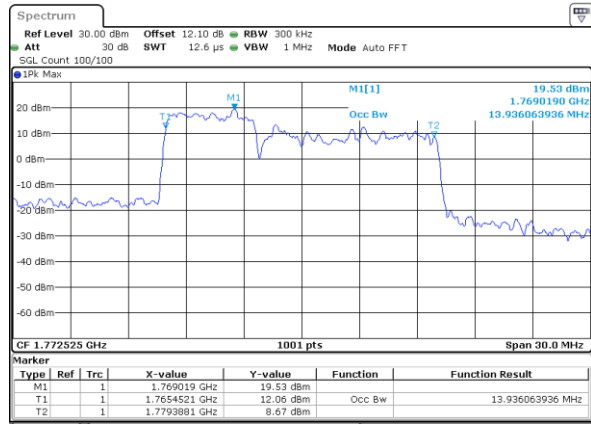
Date: 22\_JUL\_2020 22:47:55

Highest Channel / 5MHz+5MHz



Date: 22\_JUL\_2020 23:39:57

Highest Channel / 5MHz+10MHz



Date: 22\_JUL\_2020 23:02:14

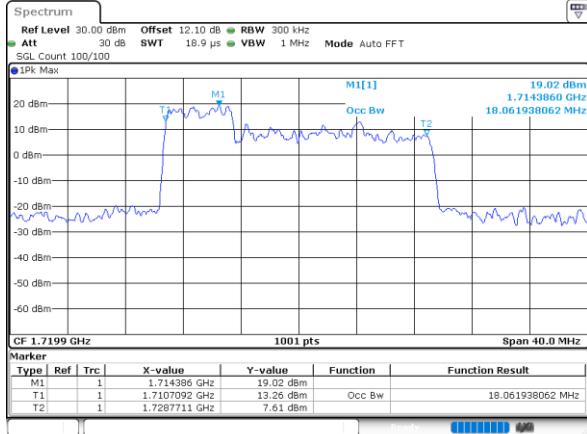




LTE Band 66B

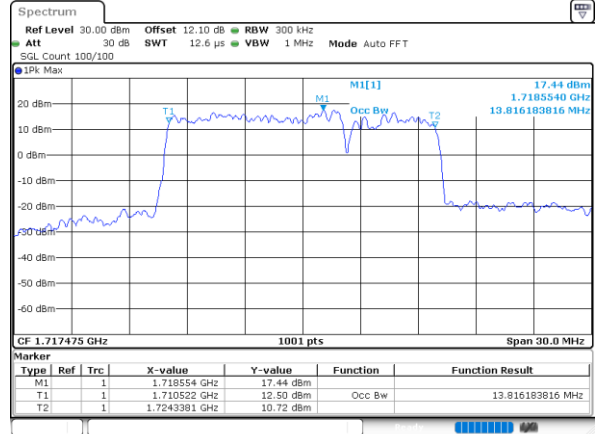
16QAM

Lowest Channel / 5MHz+15MHz



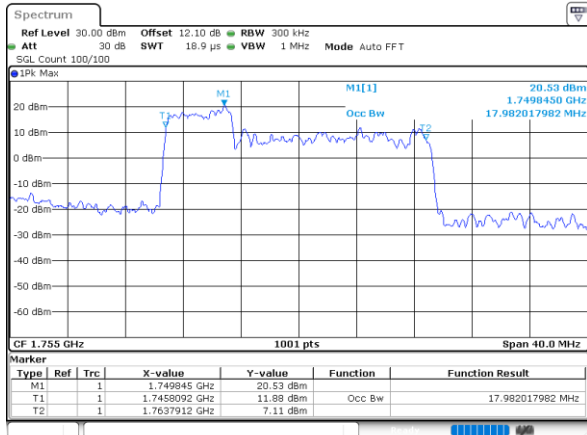
Date: 21.JUL.2020 23:41:28

Lowest Channel / 10MHz+5MHz



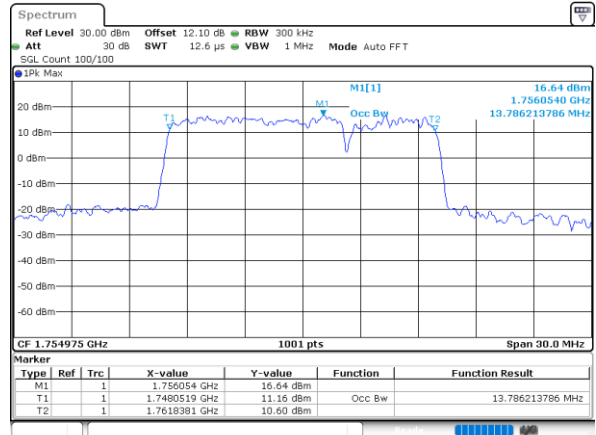
Date: 22.JUL.2020 02:13:53

Middle Channel / 5MHz+15MHz



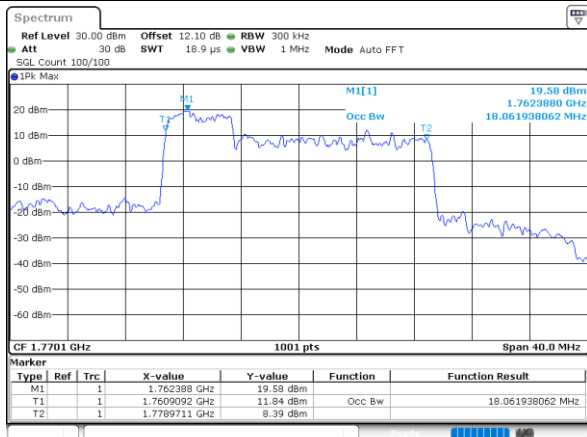
Date: 22.JUL.2020 00:15:17

Middle Channel / 10MHz+5MHz



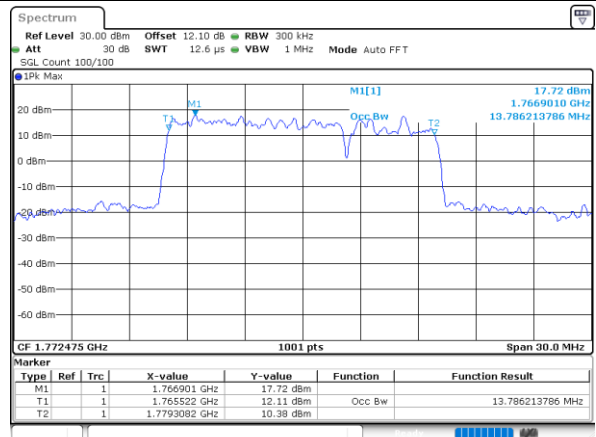
Date: 22.JUL.2020 03:10:02

Highest Channel / 5MHz+15MHz



Date: 22.JUL.2020 00:13:06

Highest Channel / 10MHz+5MHz



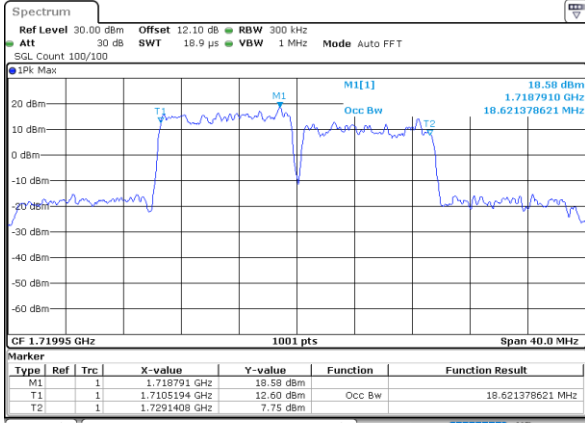
Date: 22.JUL.2020 03:17:08



LTE Band 66B

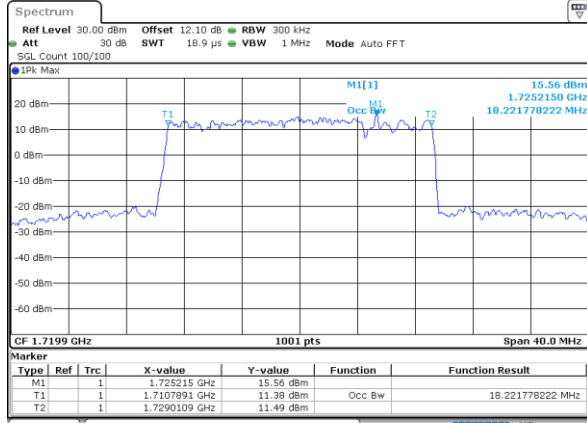
16QAM

Lowest Channel / 10MHz+10MHz



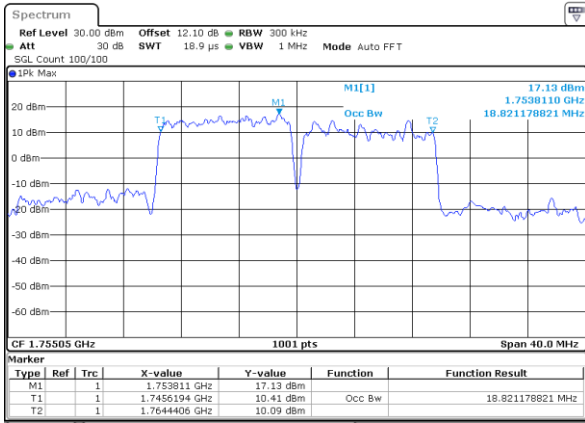
Date: 22.JUL.2020 01:00:16

Lowest Channel / 15MHz+5MHz



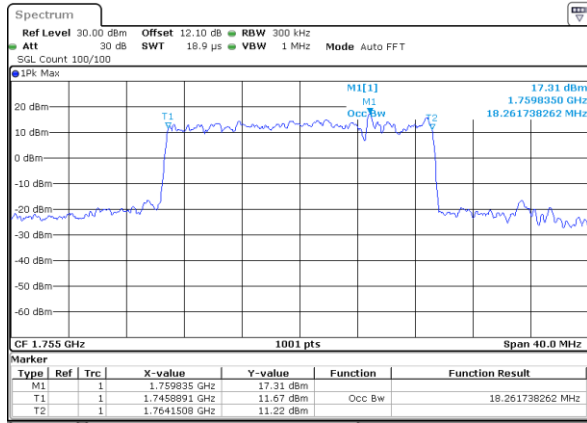
Date: 21.JUL.2020 21:42:53

Middle Channel / 10MHz+10MHz



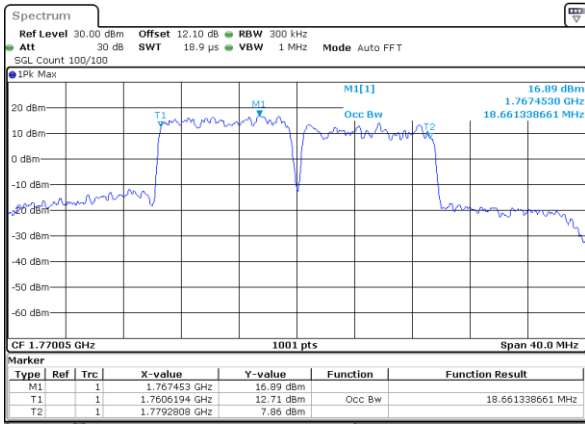
Date: 22.JUL.2020 01:45:14

Middle Channel / 15MHz+5MHz



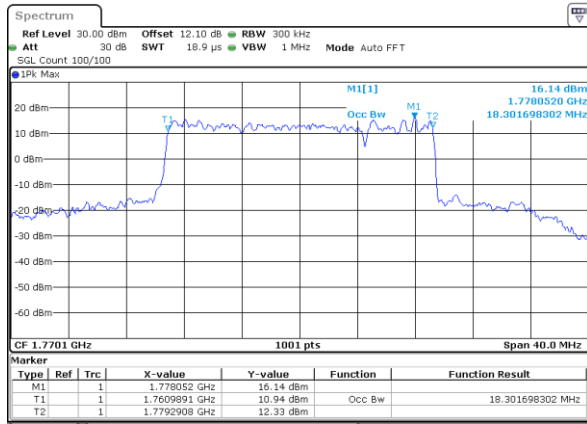
Date: 21.JUL.2020 22:11:43

Highest Channel / 10MHz+10MHz



Date: 22.JUL.2020 02:19:04

Highest Channel / 15MHz+5MHz



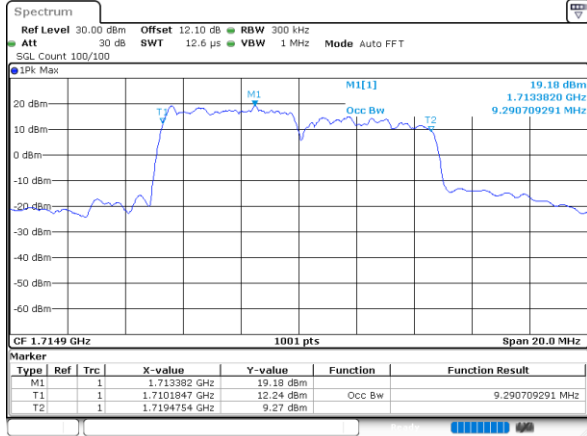
Date: 21.JUL.2020 22:26:39



LTE Band 66B

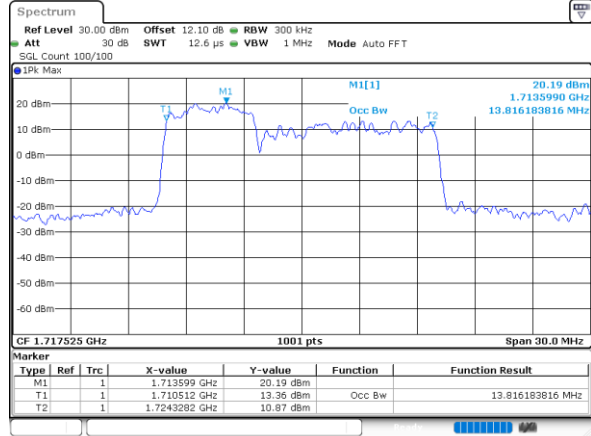
64QAM

Lowest Channel / 5MHz+5MHz



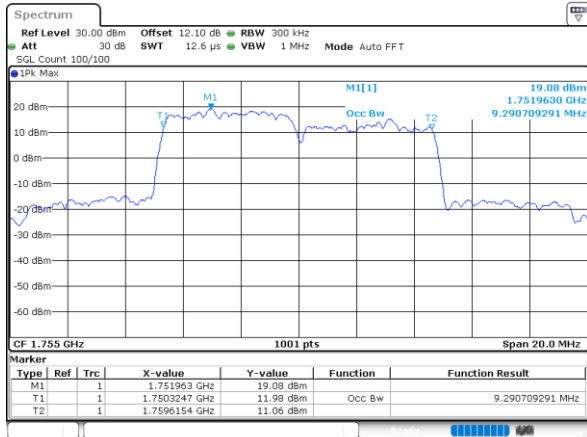
Date: 22\_JUL\_2020 04:07:22

Lowest Channel / 5MHz+10MHz



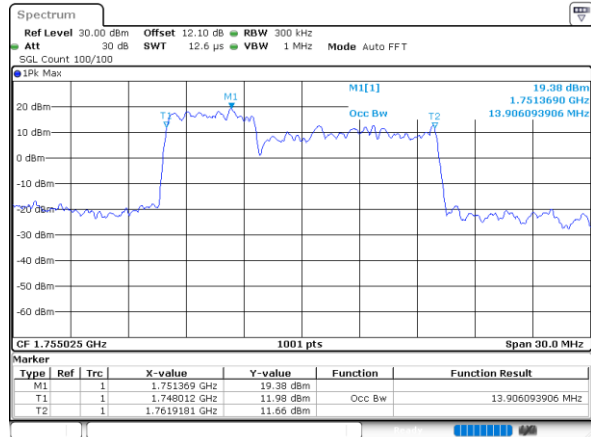
Date: 22\_JUL\_2020 03:46:10

Middle Channel / 5MHz+5MHz



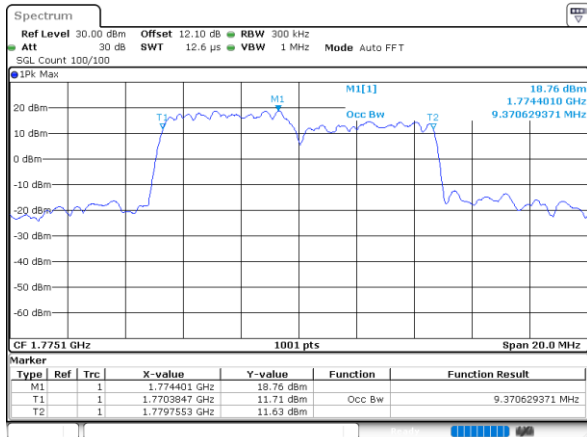
Date: 22\_JUL\_2020 23:27:30

Middle Channel / 5MHz+10MHz



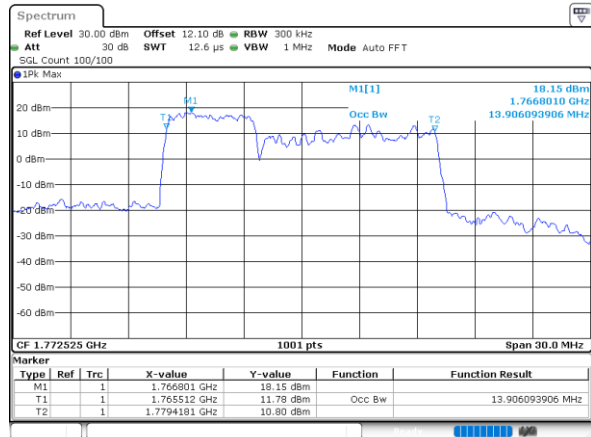
Date: 22\_JUL\_2020 22:48:18

Highest Channel / 5MHz+5MHz



Date: 22\_JUL\_2020 23:39:35

Highest Channel / 5MHz+10MHz



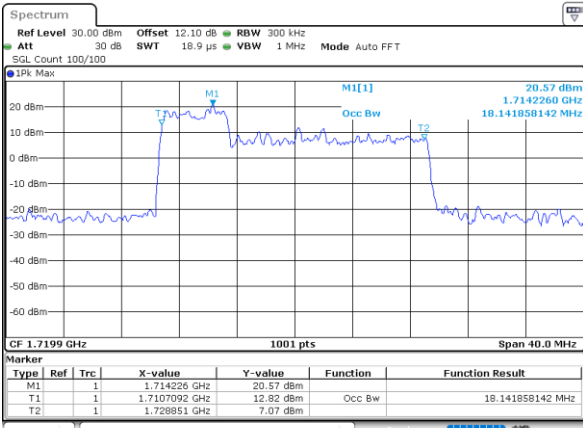
Date: 22\_JUL\_2020 23:01:51



LTE Band 66B

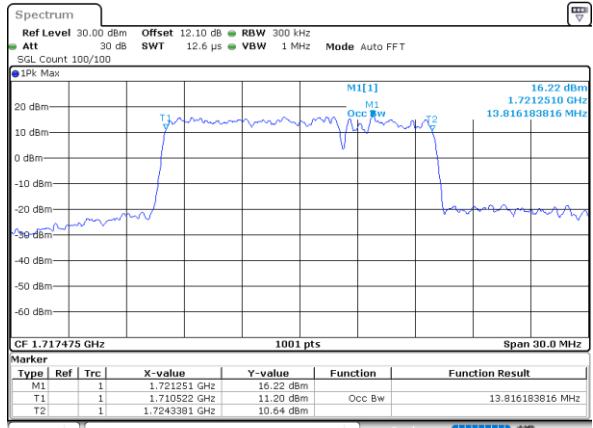
64QAM

Lowest Channel / 5MHz+15MHz



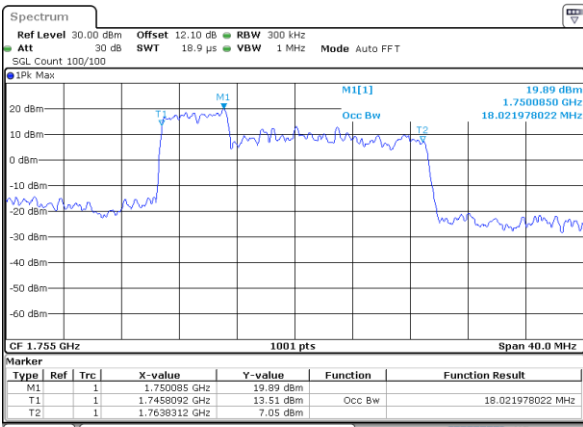
Date: 21.JUL.2020 23:41:51

Lowest Channel / 10MHz+5MHz



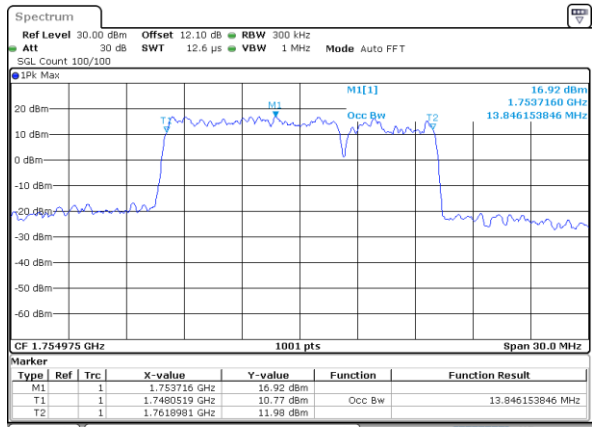
Date: 22.JUL.2020 02:40:16

Middle Channel / 5MHz+15MHz



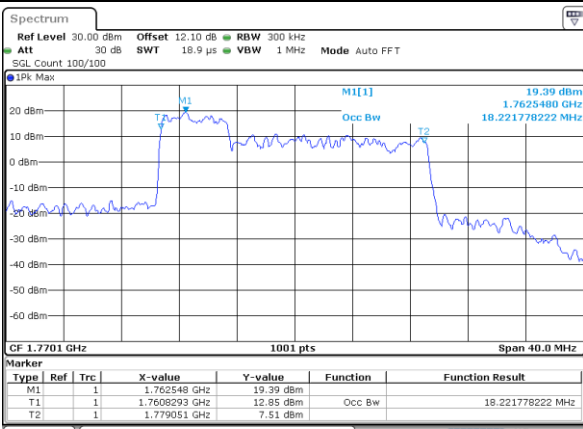
Date: 22.JUL.2020 00:15:40

Middle Channel / 10MHz+5MHz



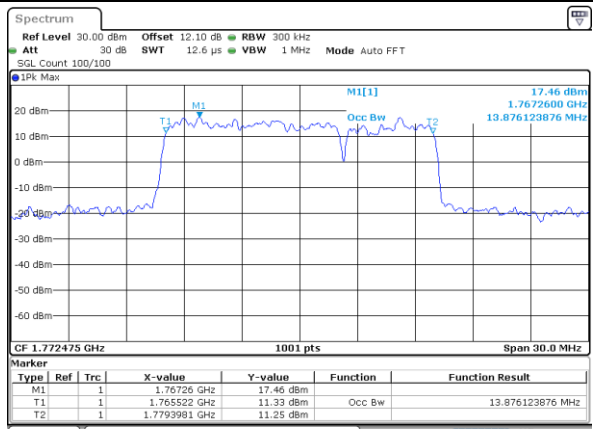
Date: 22.JUL.2020 03:03:25

Highest Channel / 5MHz+15MHz



Date: 22.JUL.2020 00:33:43

Highest Channel / 10MHz+5MHz



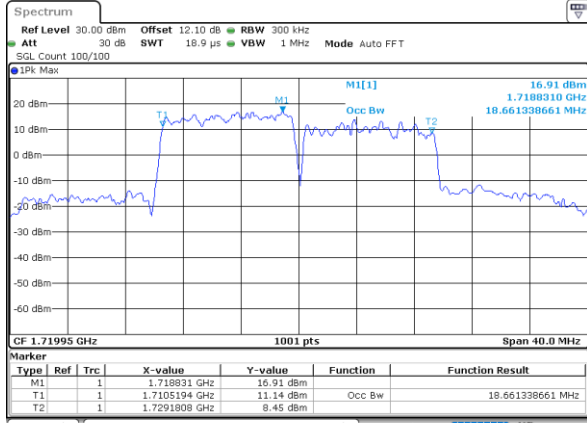
Date: 22.JUL.2020 03:16:45



LTE Band 66B

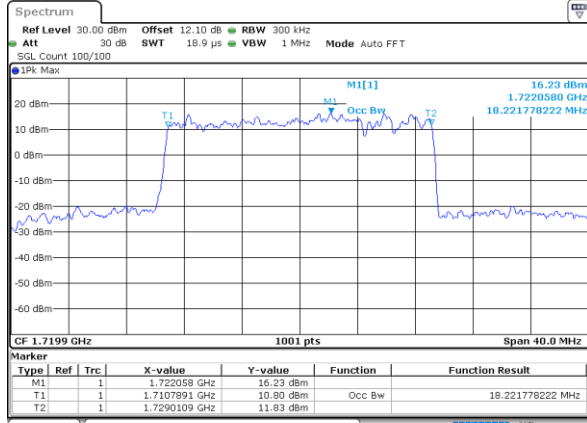
64QAM

Lowest Channel / 10MHz+10MHz



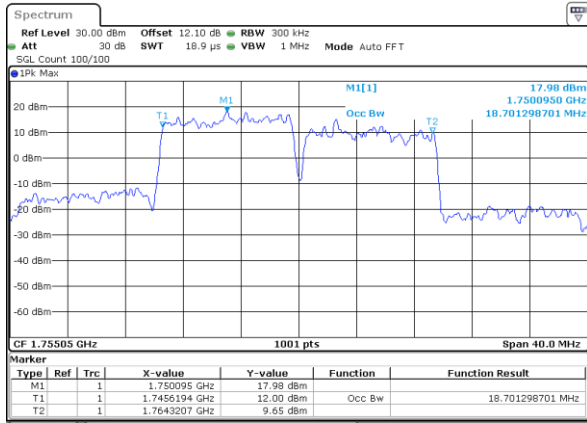
Date: 22.JUL.2020 01:00:39

Lowest Channel / 15MHz+5MHz



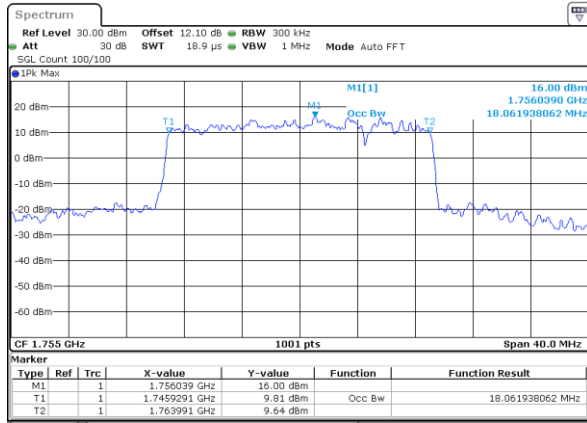
Date: 21.JUL.2020 21:43:16

Middle Channel / 10MHz+10MHz



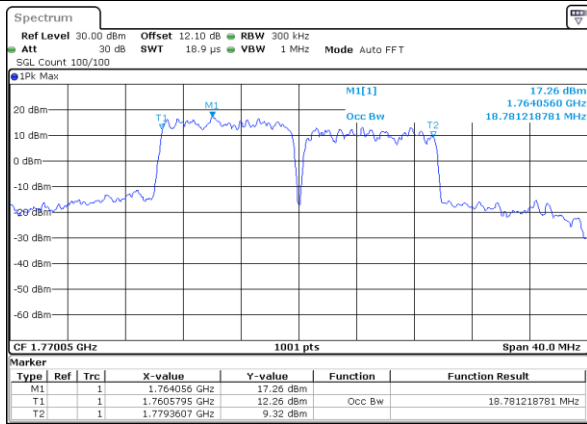
Date: 22.JUL.2020 01:45:37

Middle Channel / 15MHz+5MHz



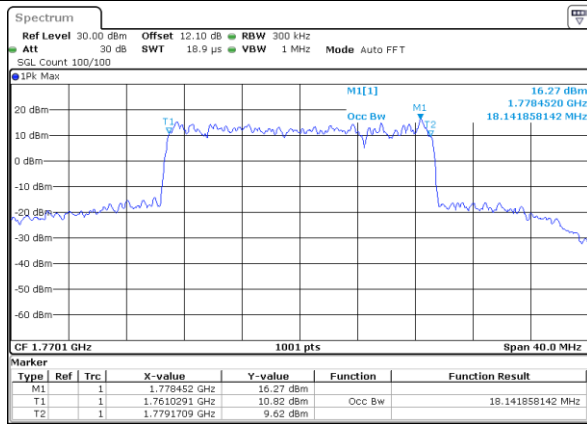
Date: 21.JUL.2020 22:12:06

Highest Channel / 10MHz+10MHz



Date: 22.JUL.2020 02:18:42

Highest Channel / 15MHz+5MHz



Date: 21.JUL.2020 22:26:16

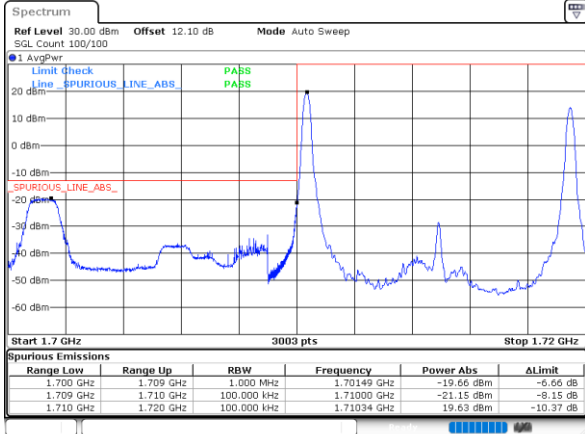


# Conducted Band Edge

## LTE Band 66B / 5MHz+5MHz

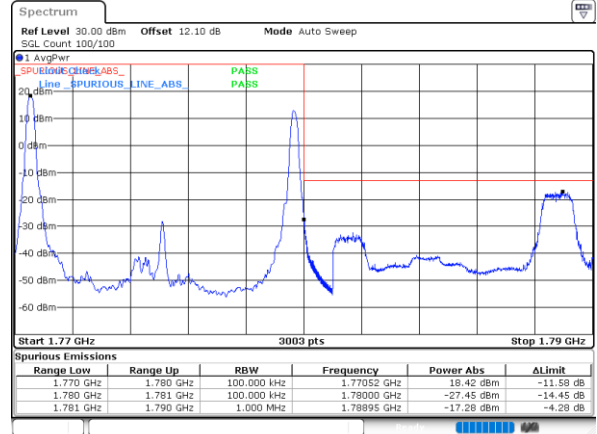
### QPSK

#### Lowest Band Edge / 1RB0 and 1RB24



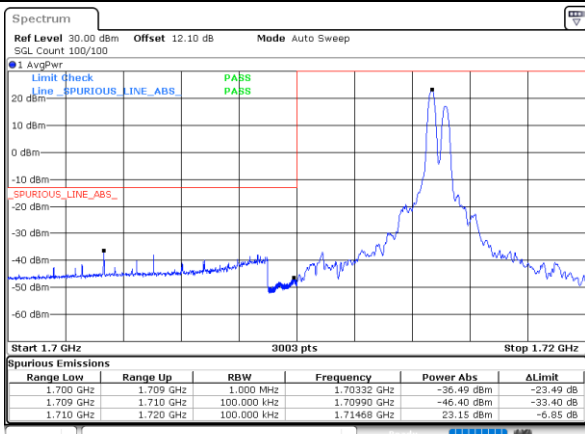
Date: 22\_JUL\_2020 04:12:36

#### Highest Band Edge / 1RB0 and 1RB24



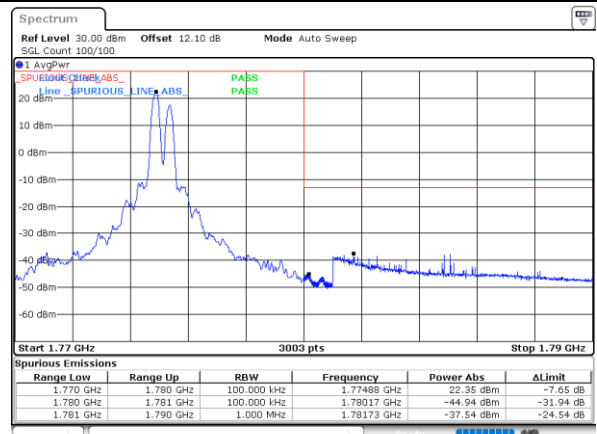
Date: 23\_JUL\_2020 00:05:39

#### Lowest Band Edge / 1RB14 and 1RB0



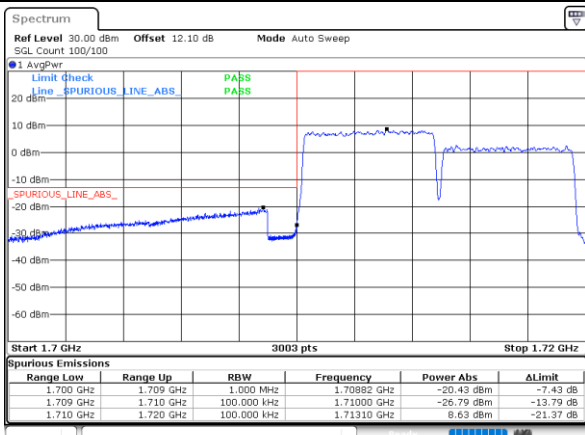
Date: 22\_JUL\_2020 04:13:16

#### Highest Band Edge / 1RB14 and 1RB0



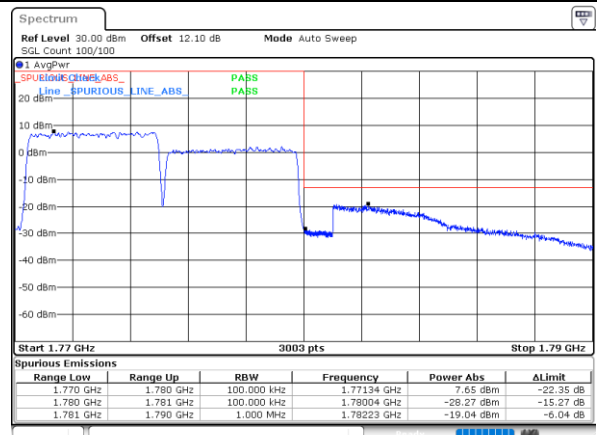
Date: 22\_JUL\_2020 23:47:38

#### Lowest Band Edge / Full RB



Date: 22\_JUL\_2020 04:09:10

#### Highest Band Edge / Full RB



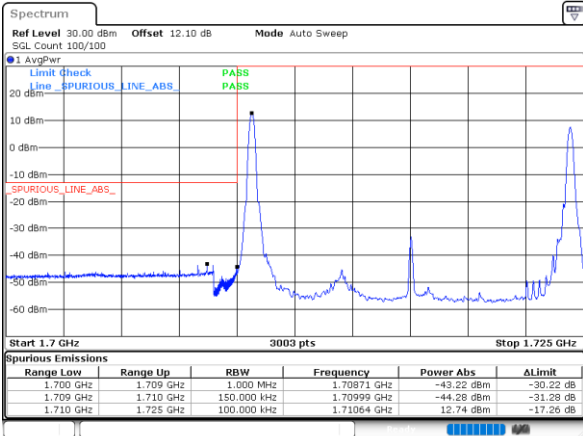
Date: 22\_JUL\_2020 23:43:31



LTE Band 66B / 5MHz+10MHz

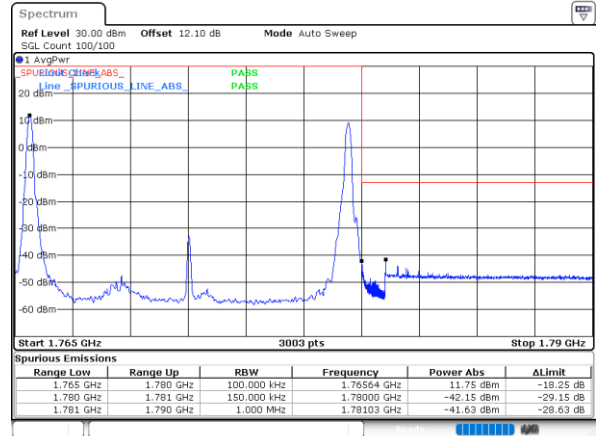
QPSK

Lowest Band Edge / 1RB0 and 1RB14



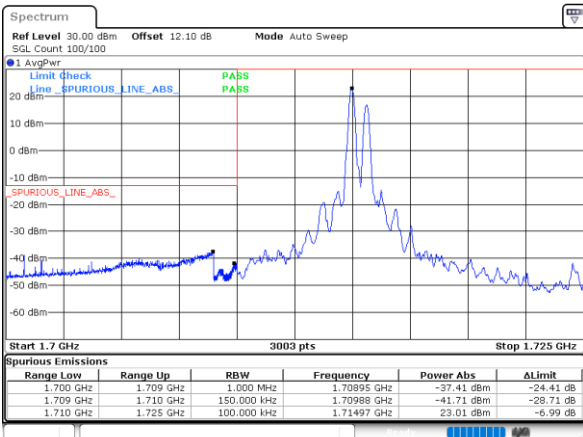
Date: 22\_JUL\_2020 03:51:24

Highest Band Edge / 1RB0 and 1RB14



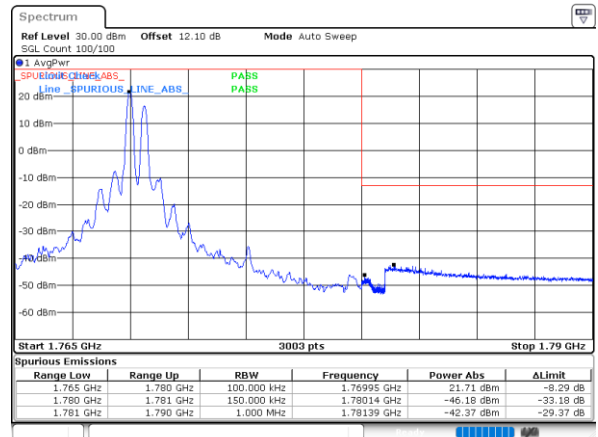
Date: 22\_JUL\_2020 23:06:28

Lowest Band Edge / 1RB24 and 1RB0



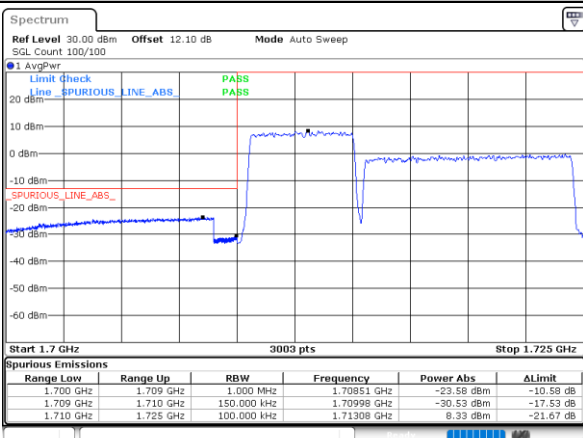
Date: 22\_JUL\_2020 03:52:05

Highest Band Edge / 1RB24 and 1RB0



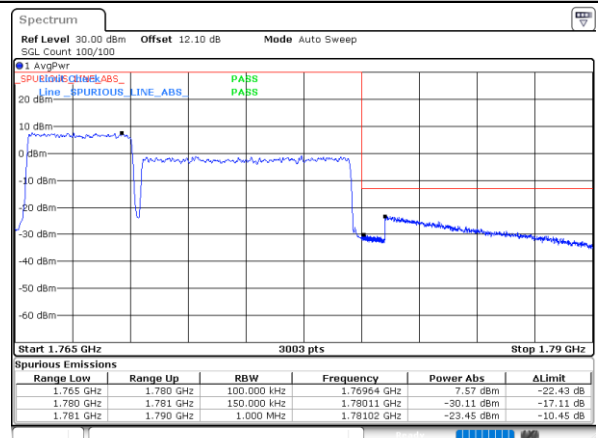
Date: 22\_JUL\_2020 23:09:53

Lowest Band Edge / Full RB



Date: 22\_JUL\_2020 03:47:58

Highest Band Edge / Full RB



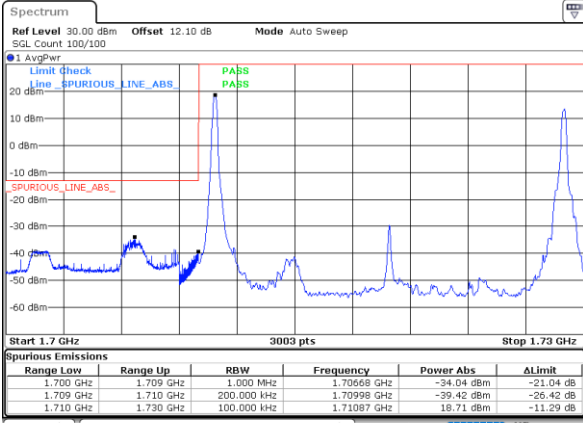
Date: 22\_JUL\_2020 23:05:47



LTE Band 66B / 5MHz+15MHz

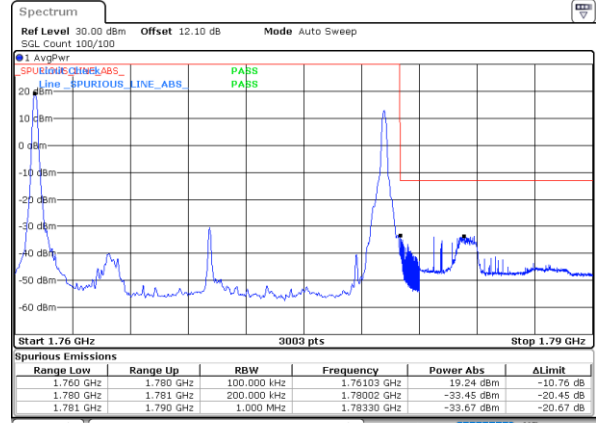
QPSK

Lowest Band Edge / 1RB0 and 1RB49



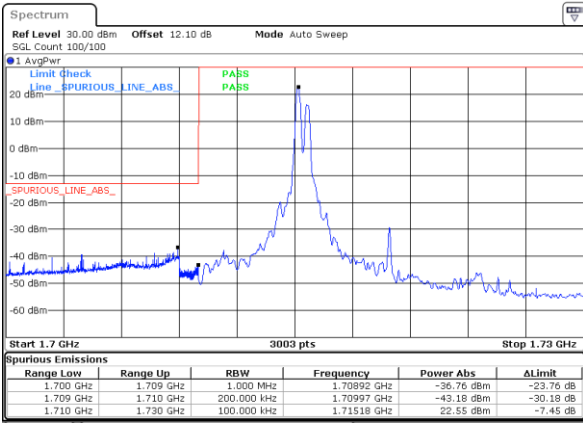
Date: 21.JUL.2020 23:47:05

Highest Band Edge / 1RB0 and 1RB49



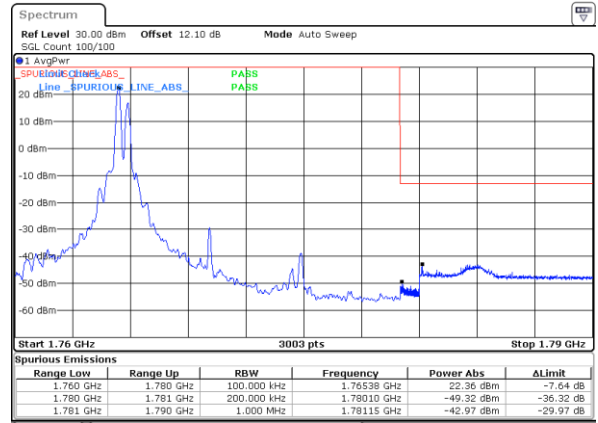
Date: 22.JUL.2020 00:18:20

Lowest Band Edge / 1RB24 and 1RB0



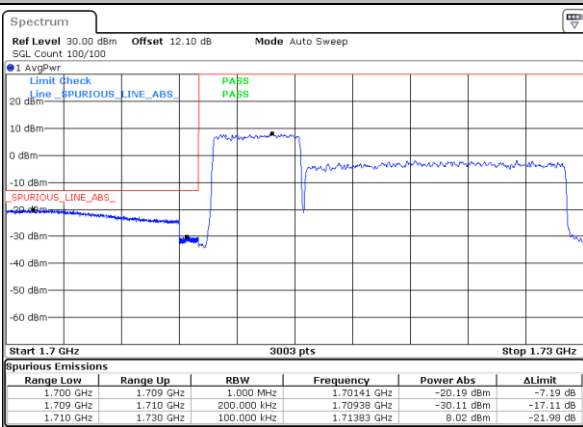
Date: 21.JUL.2020 23:47:45

Highest Band Edge / 1RB24 and 1RB0



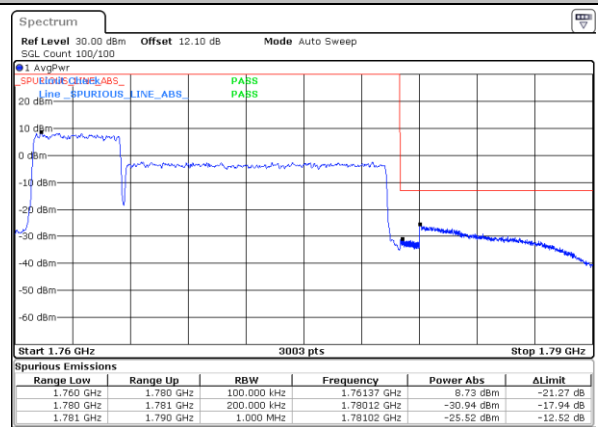
Date: 23.JUL.2020 02:01:28

Lowest Band Edge / Full RB



Date: 21.JUL.2020 23:43:38

Highest Band Edge / Full RB



Date: 22.JUL.2020 00:13:39

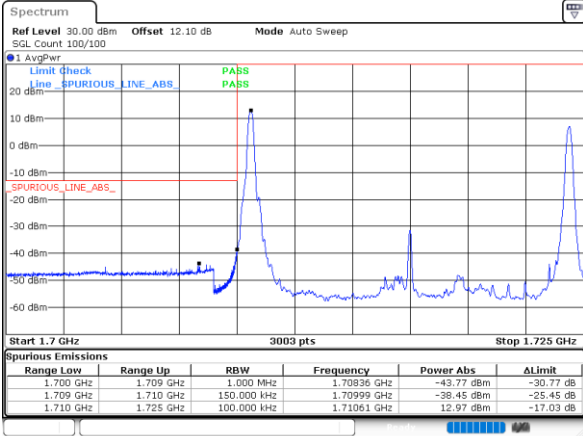




LTE Band 66B / 10MHz+5MHz

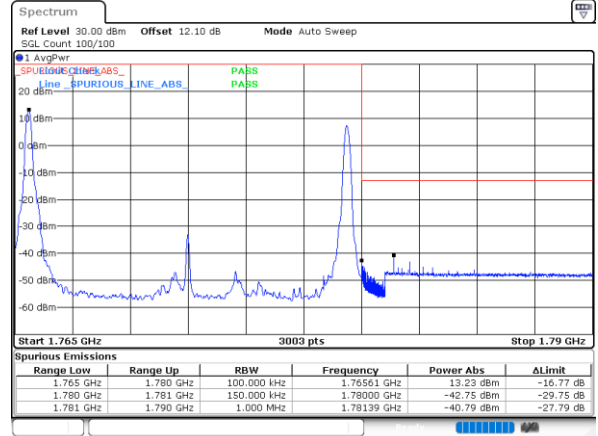
QPSK

Lowest Band Edge / 1RB0 and 1RB24



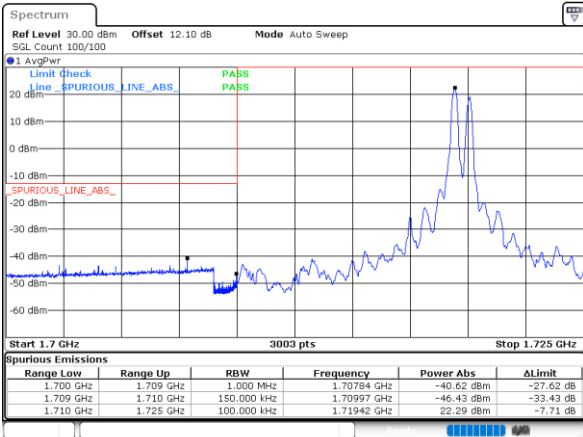
Date: 22\_JUL\_2020 02:45:30

Highest Band Edge / 1RB0 and 1RB24



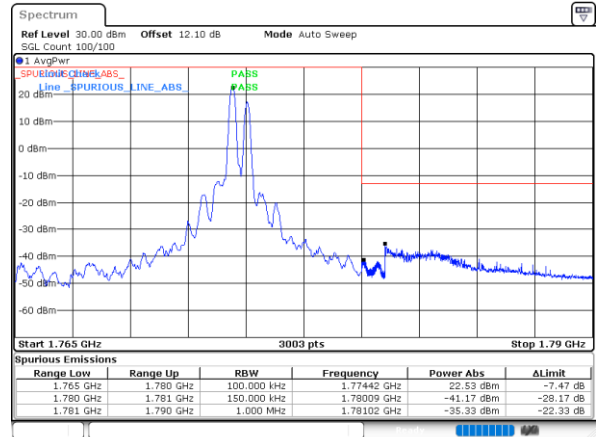
Date: 22\_JUL\_2020 03:21:22

Lowest Band Edge / 1RB49 and 1RB0



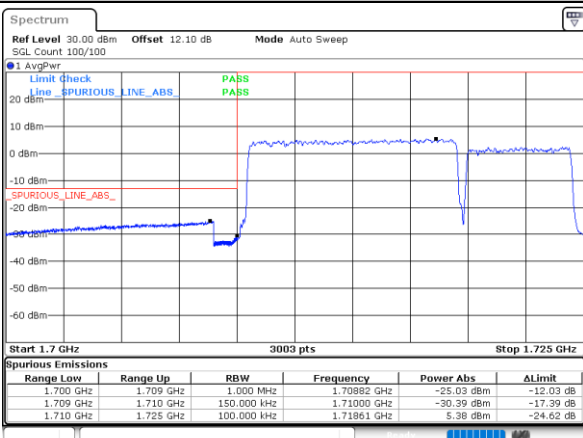
Date: 22\_JUL\_2020 02:46:10

Highest Band Edge / 1RB49 and 1RB0



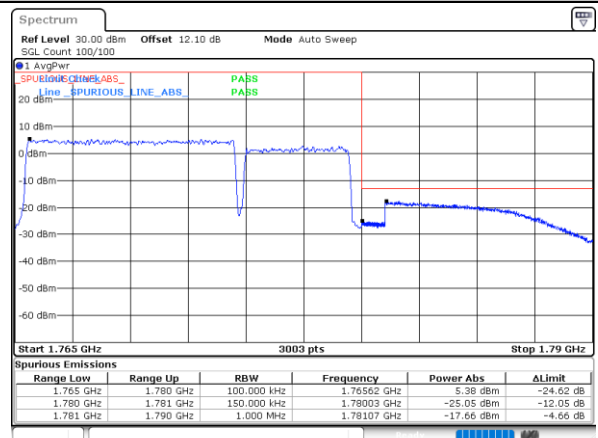
Date: 22\_JUL\_2020 03:24:48

Lowest Band Edge / Full RB



Date: 22\_JUL\_2020 02:42:04

Highest Band Edge / Full RB



Date: 22\_JUL\_2020 03:20:41