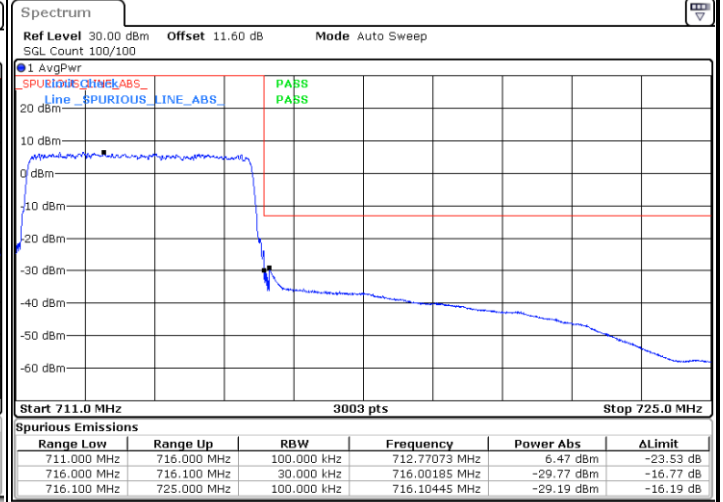
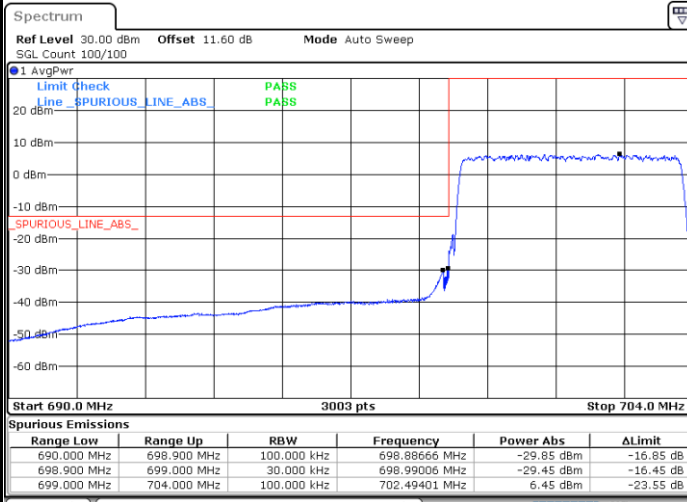




LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



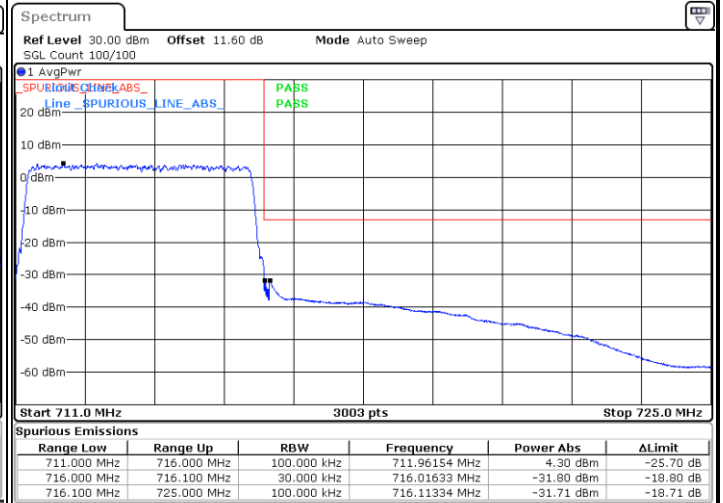
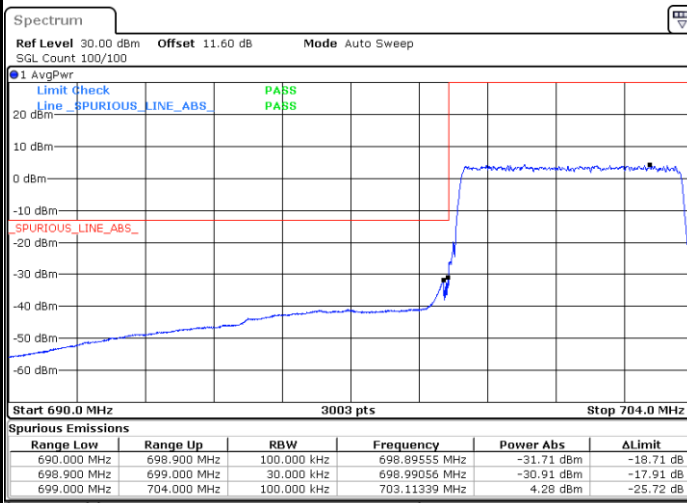
Date: 29.MAY.2024 21:20:55

Date: 29.MAY.2024 21:22:59

LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



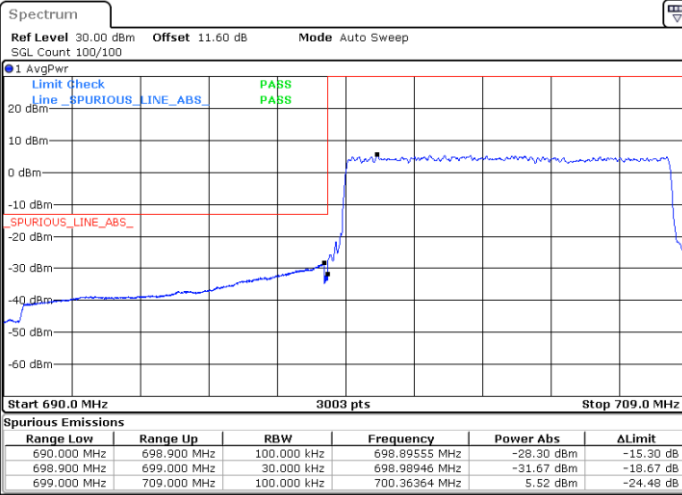
Date: 29.MAY.2024 22:50:05

Date: 29.MAY.2024 22:53:28



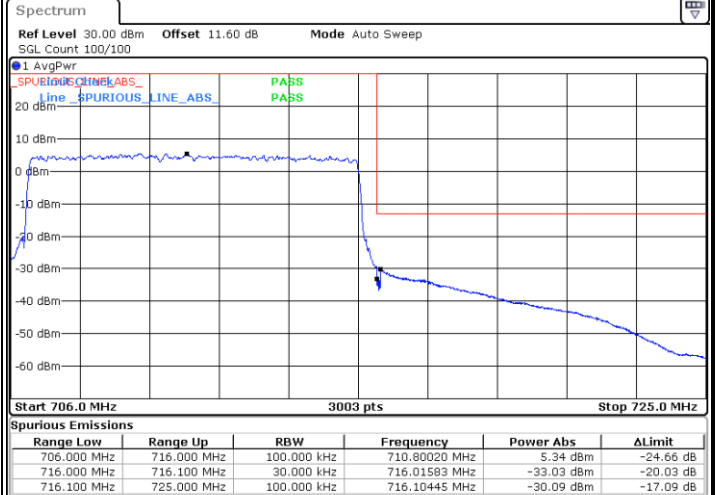
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 29.MAY.2024 21:30:20

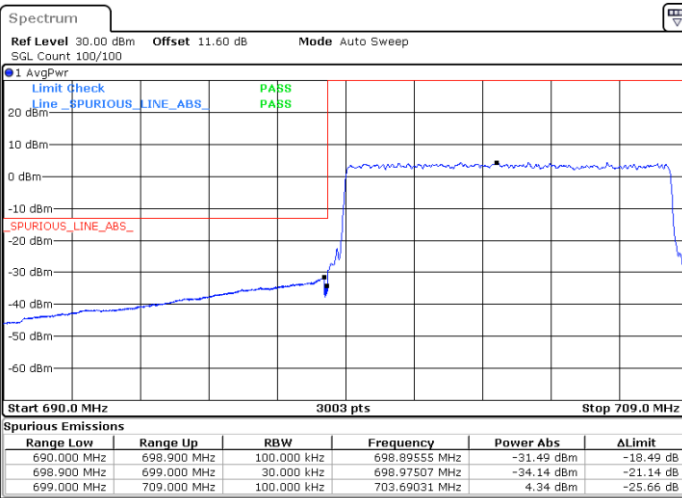
Highest Band Edge / Full RB



Date: 29.MAY.2024 21:34:30

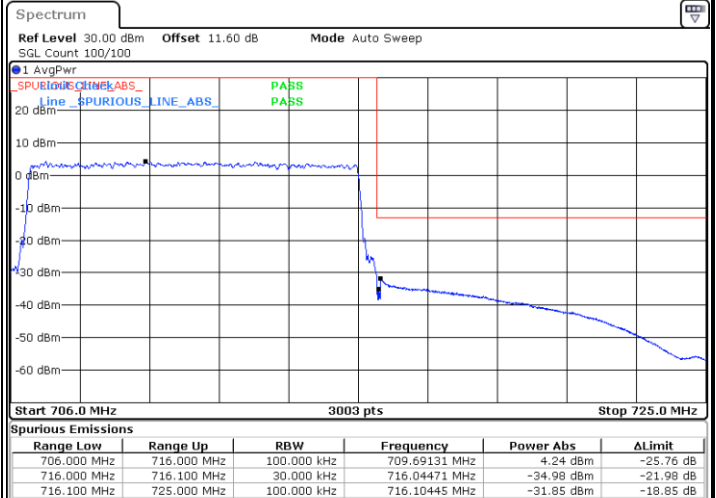
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 29.MAY.2024 21:31:22

Highest Band Edge / Full RB

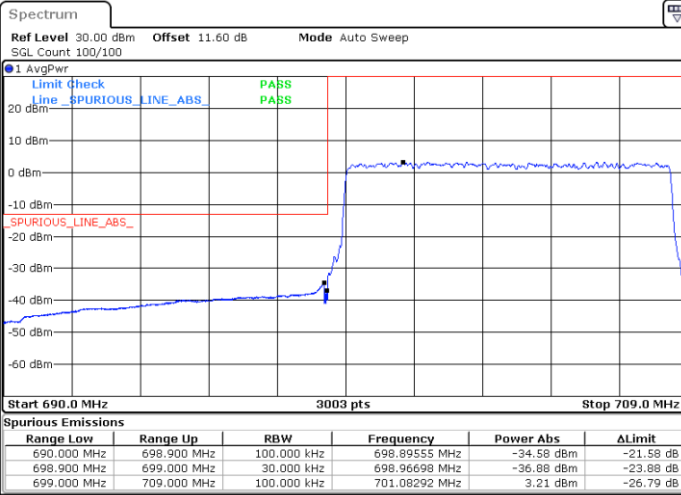


Date: 29.MAY.2024 21:35:34



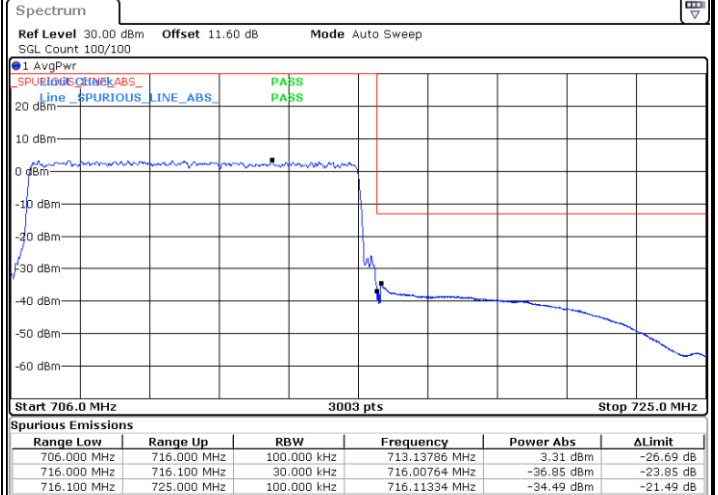
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 29.MAY.2024 21:36:34

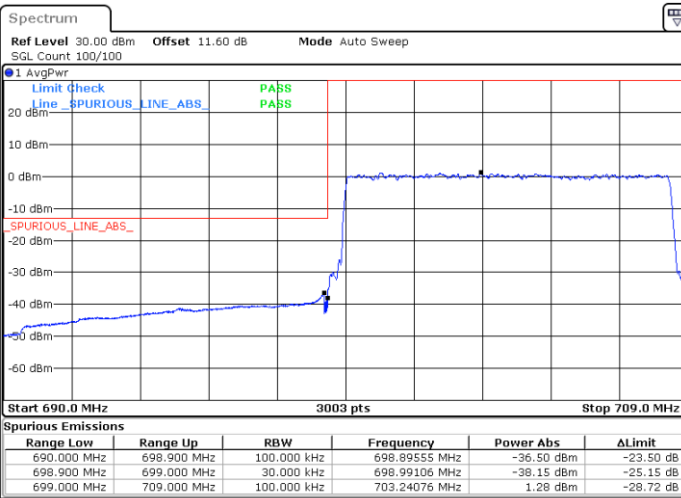
Highest Band Edge / Full RB



Date: 29.MAY.2024 21:38:41

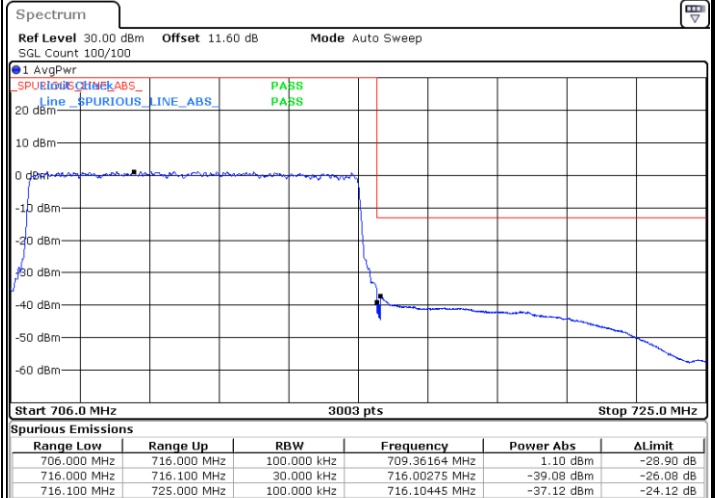
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 29.MAY.2024 22:55:19

Highest Band Edge / Full RB



Date: 29.MAY.2024 22:58:47



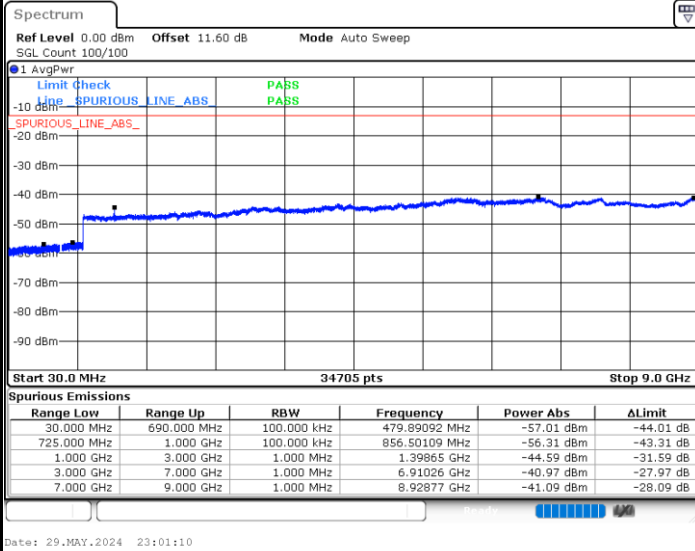
# Conducted Spurious Emission



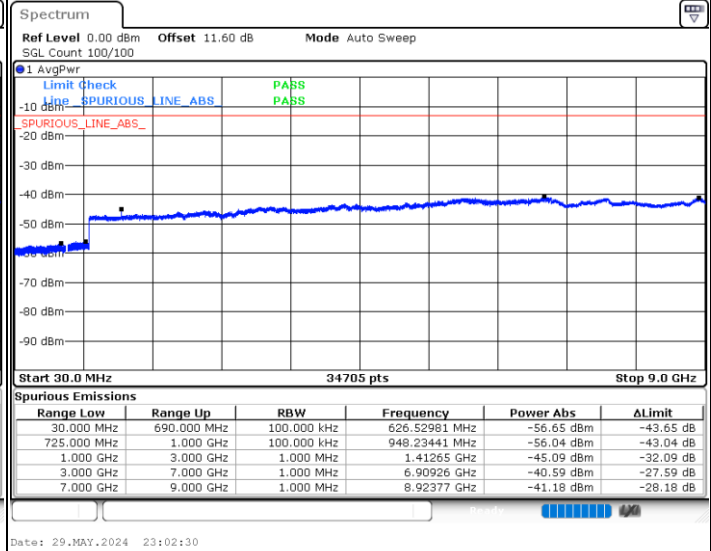


LTE Band 12 / 3MHz

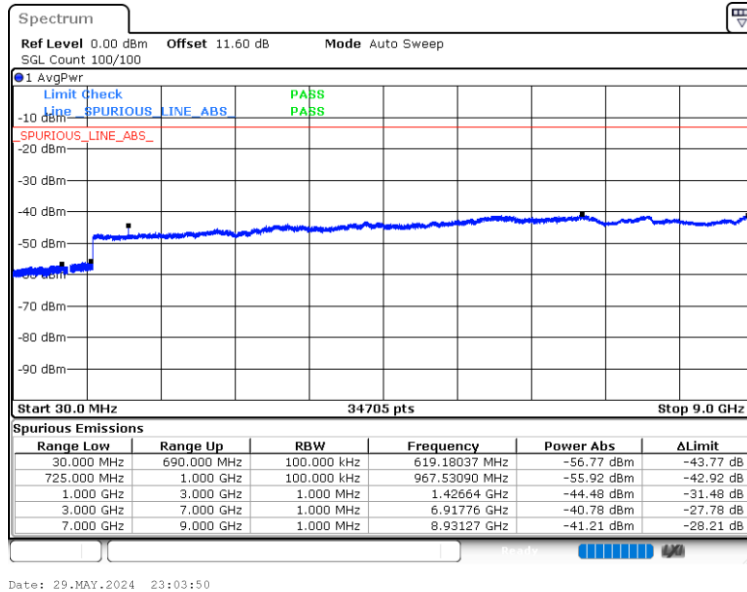
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

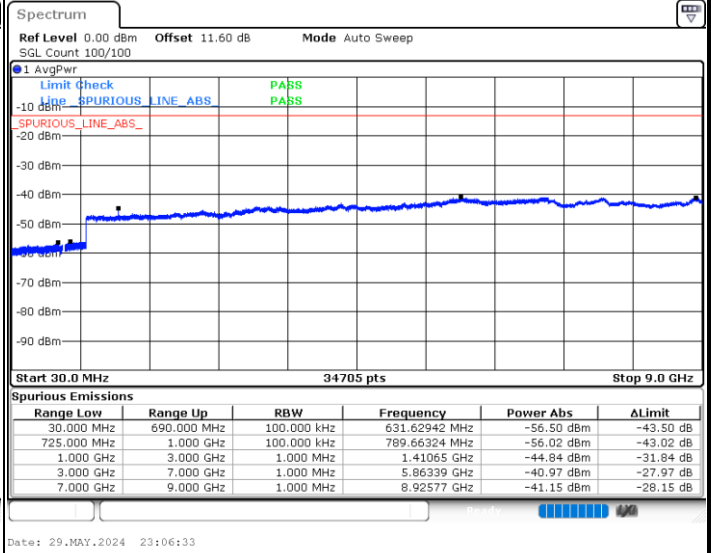
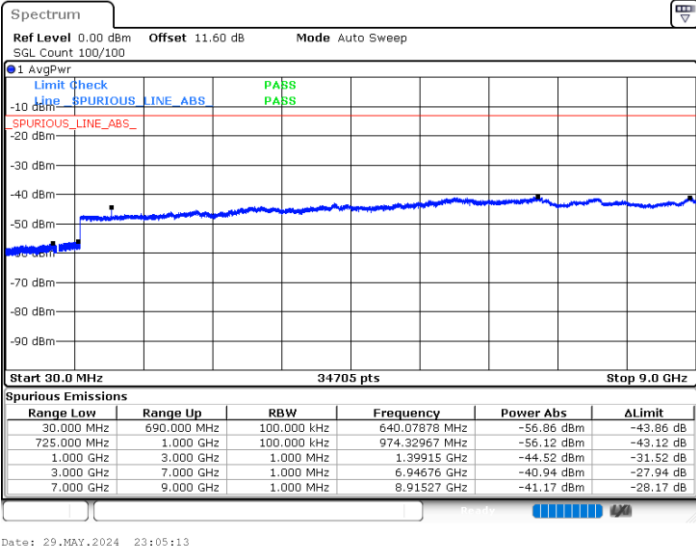




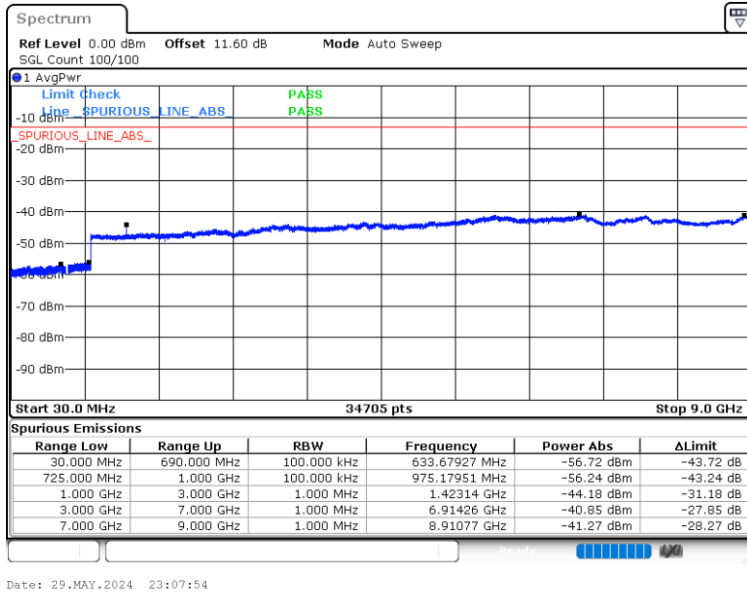
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

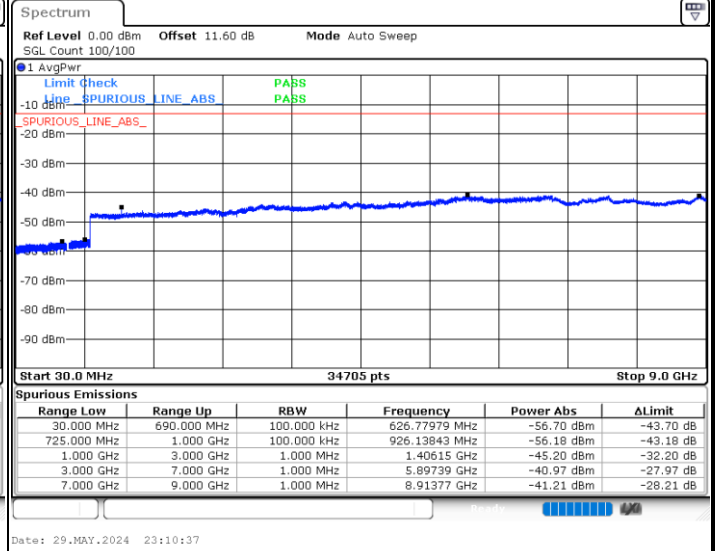
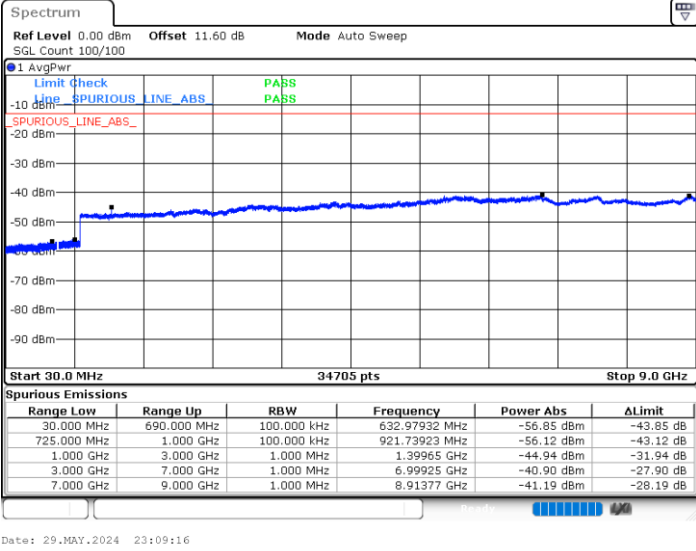




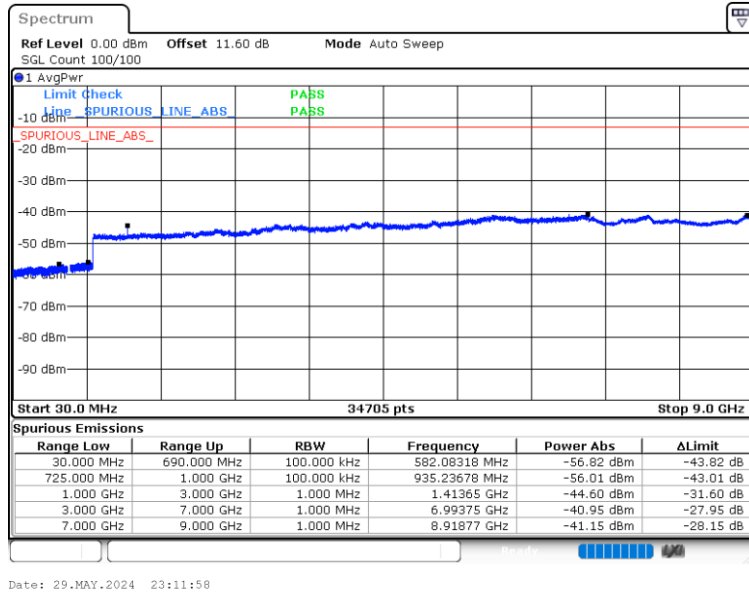
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

| Test Conditions  |                   | LTE Band 12 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0100                              | PASS    |
| 40               | Normal Voltage    | 0.0198                              |         |
| 30               | Normal Voltage    | 0.0047                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0083                              |         |
| 0                | Normal Voltage    | 0.0047                              |         |
| -10              | Normal Voltage    | 0.0014                              |         |
| -20              | Normal Voltage    | 0.0003                              |         |
| -30              | Normal Voltage    | 0.0122                              |         |
| 20               | Maximum Voltage   | 0.0045                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0100                              |         |

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.465 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

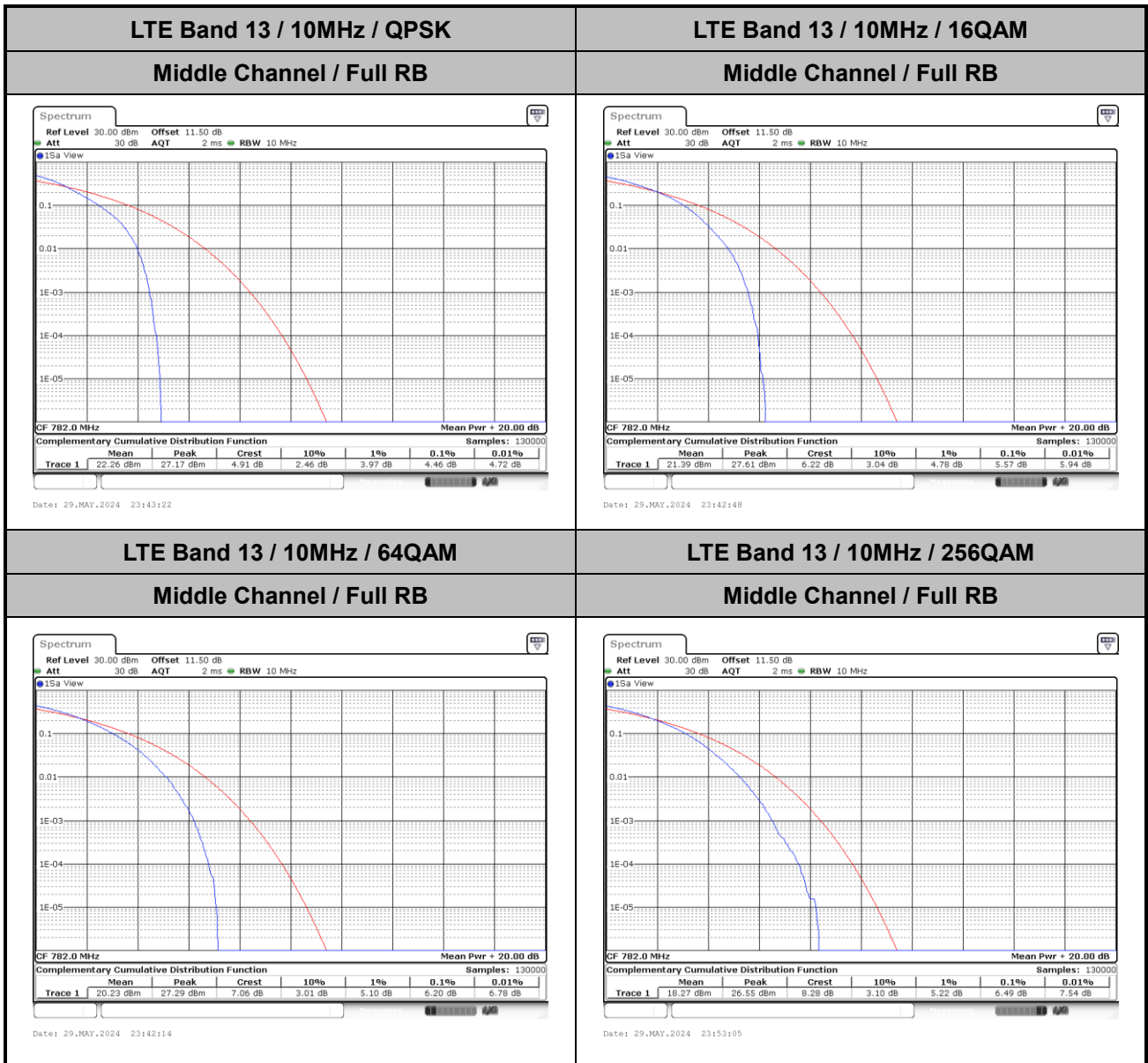




# LTE Band 13

## Peak-to-Average Ratio

| Mode      | LTE Band 13 / 10MHz |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.46                | 5.57    | 6.20    | 6.49    | PASS        |





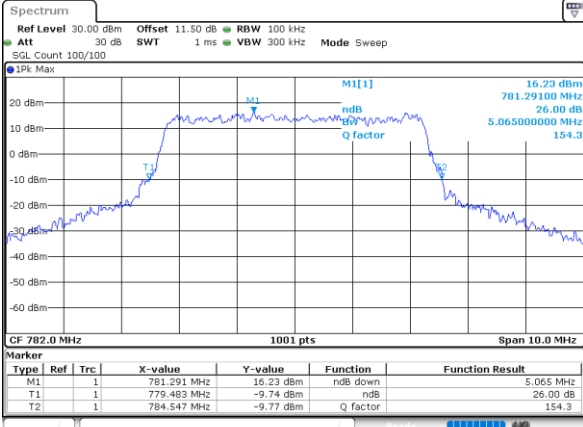
**26dB Bandwidth**

| Mode      | LTE Band 13 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|----------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                       | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | -                          | -      | -     | -      | 5.06  | 4.90   | 9.92  | 9.78   | -     | -      | -     | -      |
| Mode      | LTE Band 13 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                      | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | -                          | -      | -     | -      | 4.96  | 4.92   | 9.75  | 9.81   | -     | -      | -     | -      |



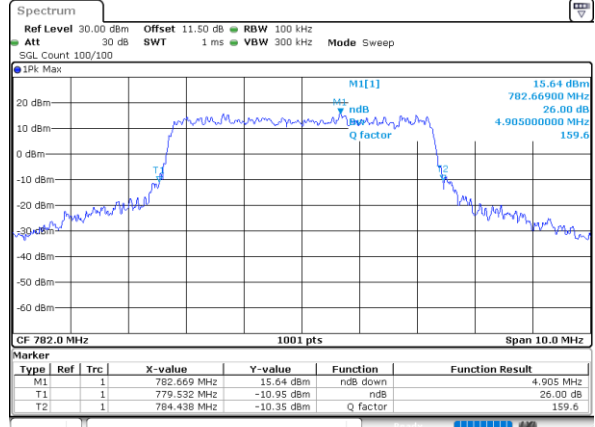
LTE Band 13

Middle Channel / 5MHz / QPSK



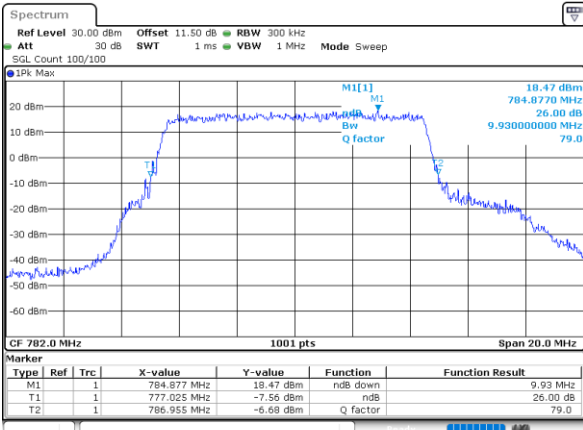
Date: 29\_MAY.2024 23:22:52

Middle Channel / 5MHz / 16QAM



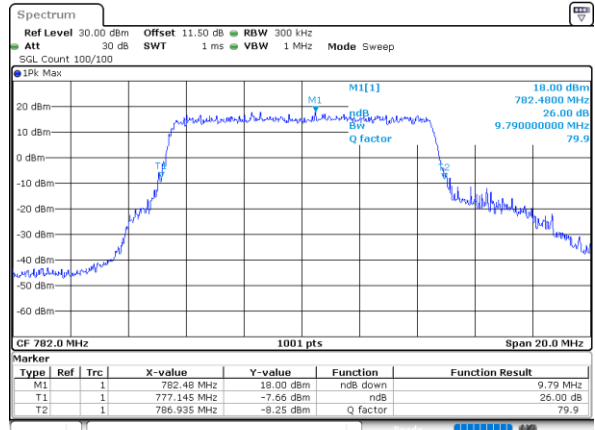
Date: 29\_MAY.2024 23:23:23

Middle Channel / 10MHz / QPSK



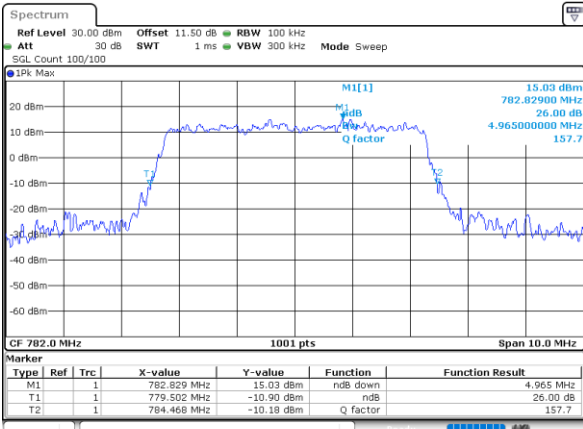
Date: 29\_MAY.2024 23:37:01

Middle Channel / 10MHz / 16QAM



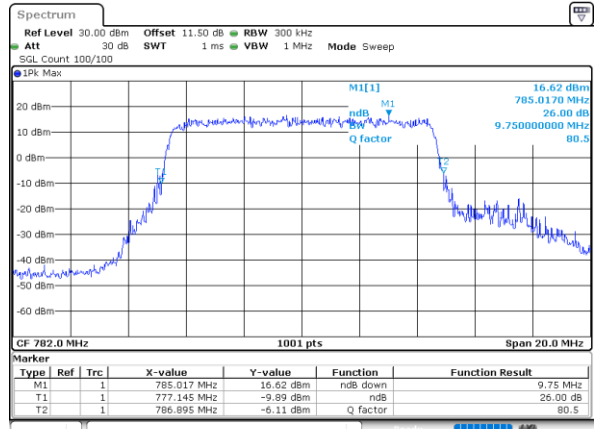
Date: 29\_MAY.2024 23:36:59

Middle Channel / 5MHz / 64QAM



Date: 29\_MAY.2024 23:32:41

Middle Channel / 10MHz / 64QAM



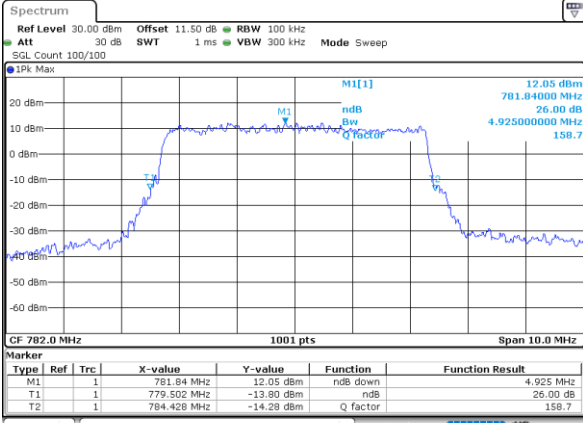
Date: 29\_MAY.2024 23:40:40



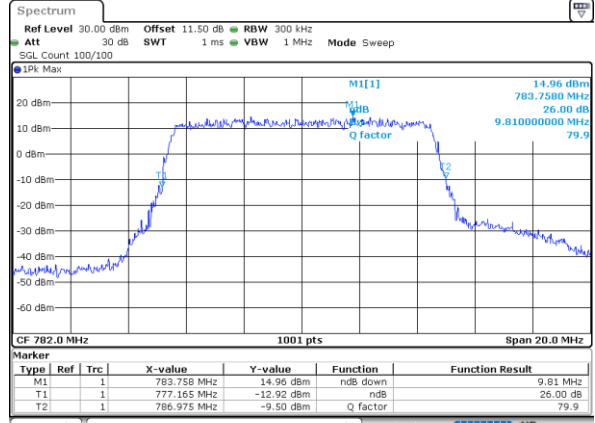
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 30.MAY.2024 00:02:35



Date: 29.MAY.2024 23:51:29



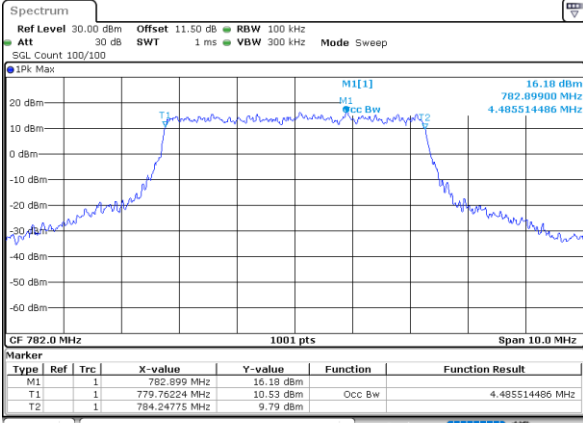
**Occupied Bandwidth**

| Mode      | LTE Band 13 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|---------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                      | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | -                         | -      | -     | -      | 4.48  | 4.49   | 8.99  | 9.01   | -     | -      | -     | -      |
| Mode      | LTE Band 13 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                     | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | -                         | -      | -     | -      | 4.49  | 4.51   | 9.01  | 9.01   | -     | -      | -     | -      |



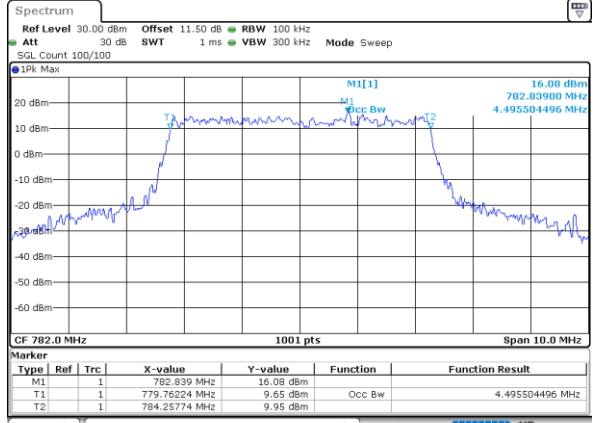
LTE Band 13

Middle Channel / 5MHz / QPSK



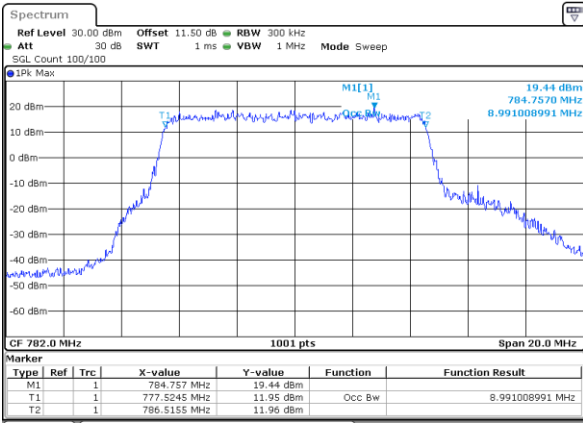
Date: 29\_MAY.2024 23:24:28

Middle Channel / 5MHz / 16QAM



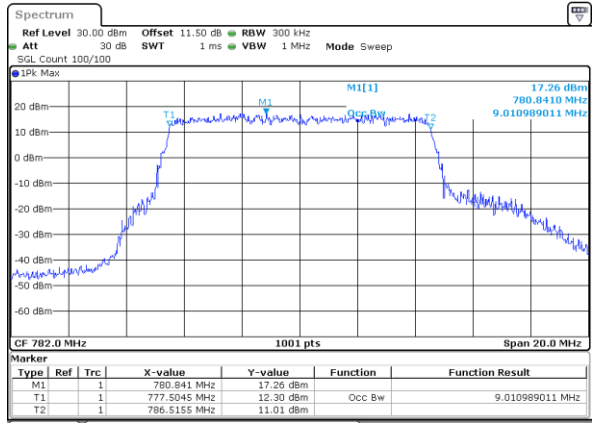
Date: 29\_MAY.2024 23:23:56

Middle Channel / 10MHz / QPSK



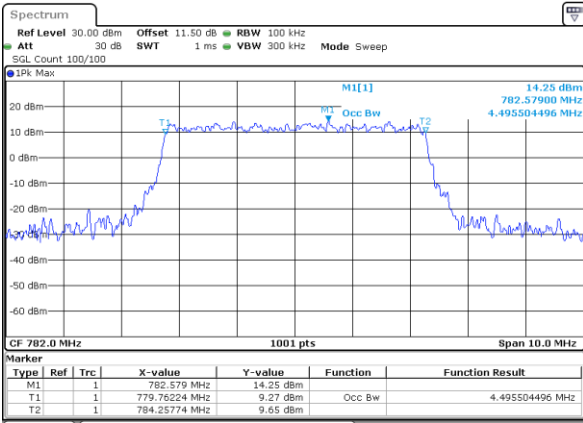
Date: 29\_MAY.2024 23:35:53

Middle Channel / 10MHz / 16QAM



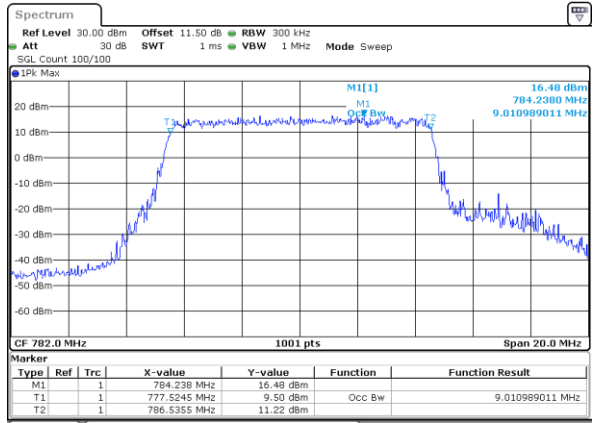
Date: 29\_MAY.2024 23:36:26

Middle Channel / 5MHz / 64QAM



Date: 29\_MAY.2024 23:33:13

Middle Channel / 10MHz / 64QAM



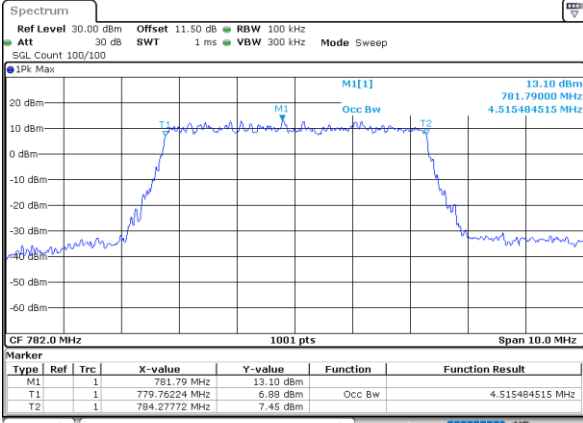
Date: 29\_MAY.2024 23:14:08



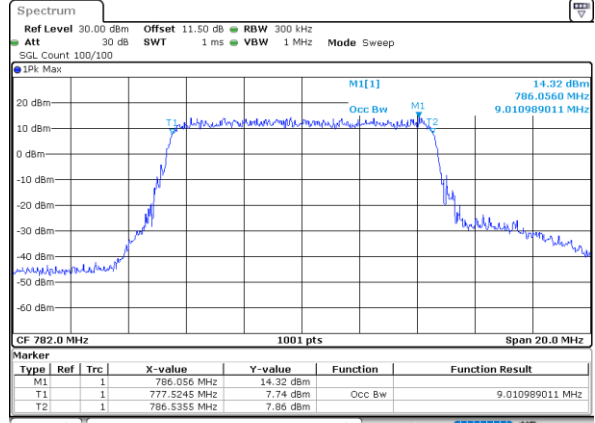
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 29\_MAY\_2024 23:47:02



Date: 29\_MAY\_2024 23:50:58

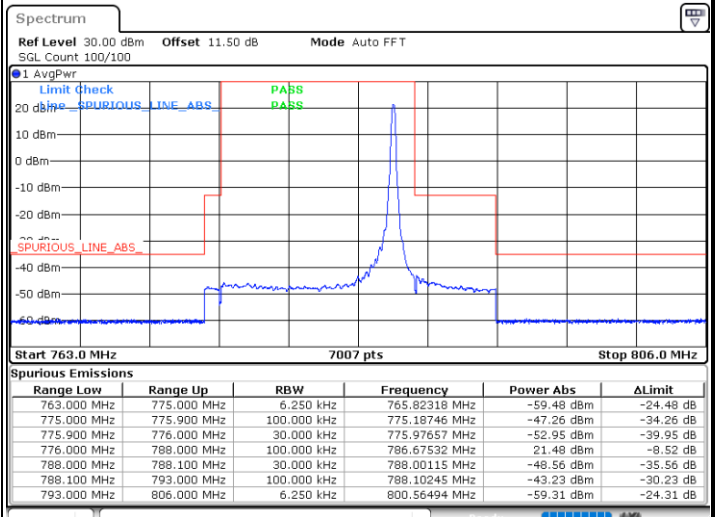
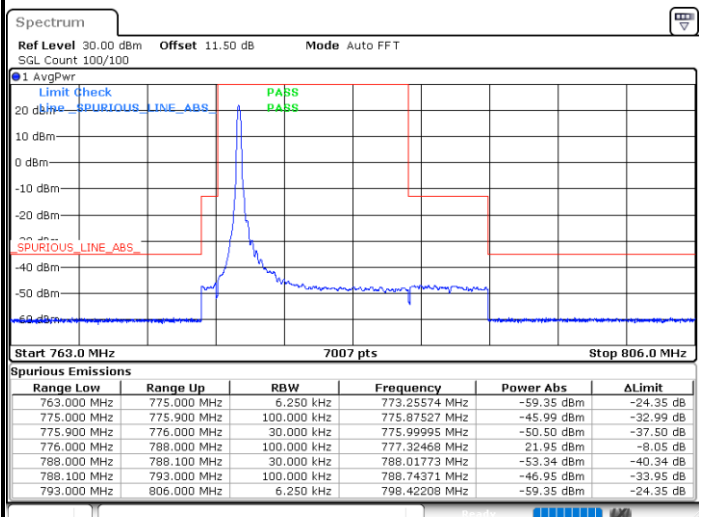


# Conducted Band Edge

## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

### Highest Band Edge / 1 RB

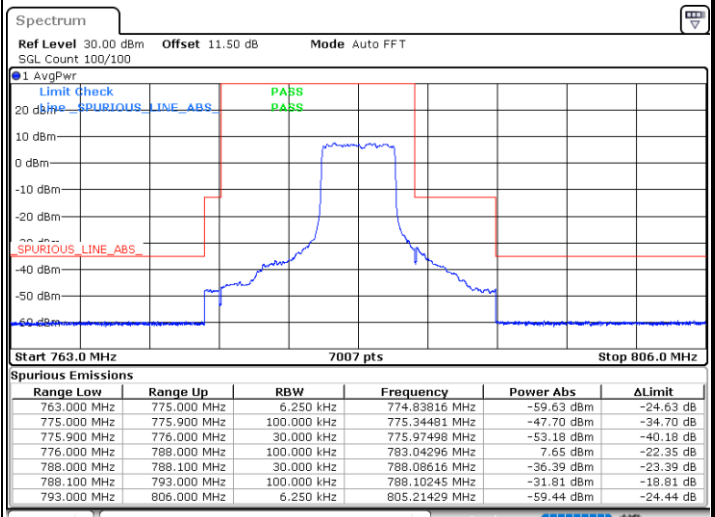
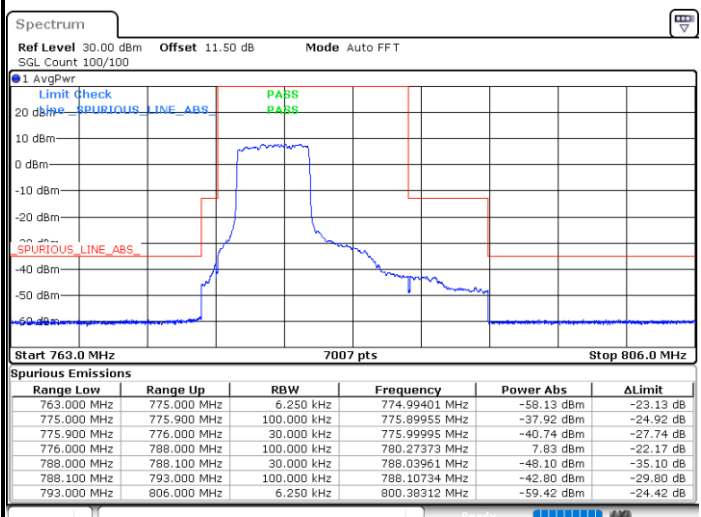


Date: 29.MAY.2024 23:19:39

Date: 29.MAY.2024 23:28:41

### Lowest Band Edge / Full RB

### Highest Band Edge / Full RB



Date: 29.MAY.2024 23:16:27

Date: 29.MAY.2024 23:25:30

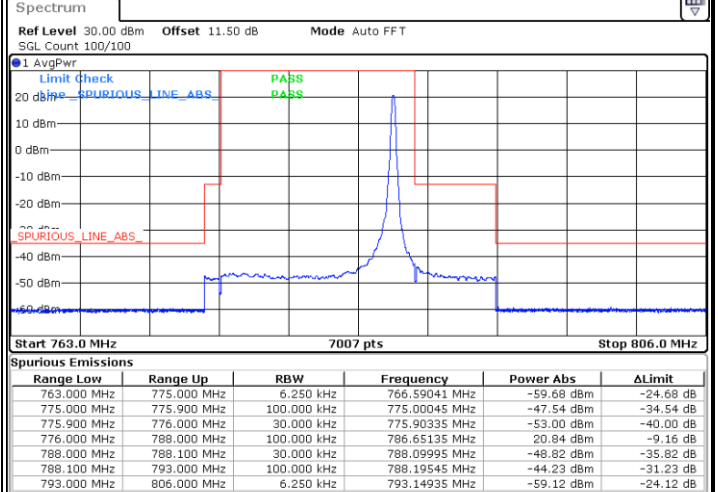
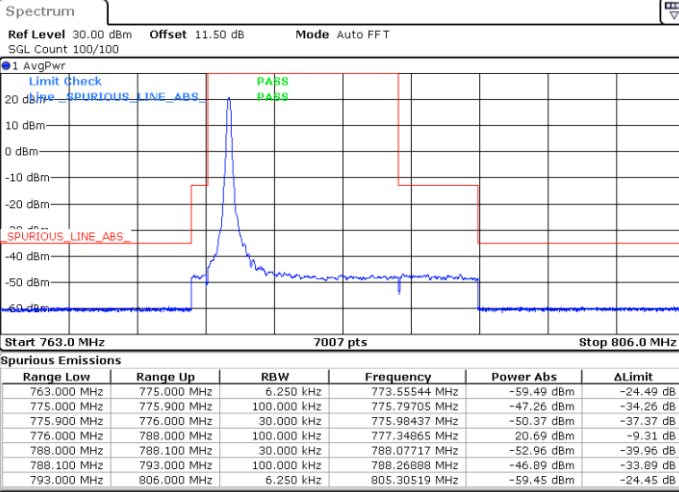




LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

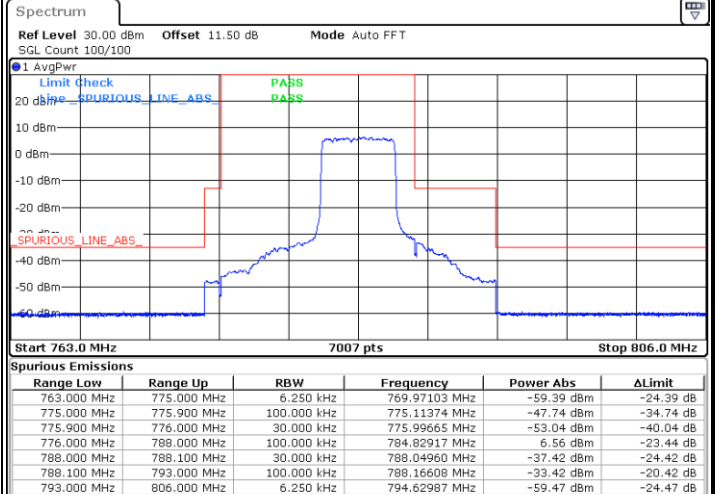
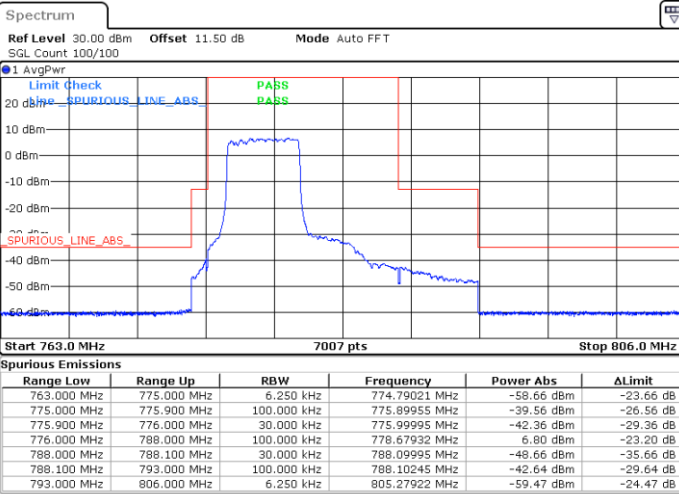


Date: 29.MAY.2024 23:18:33

Date: 29.MAY.2024 23:27:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAY.2024 23:17:31

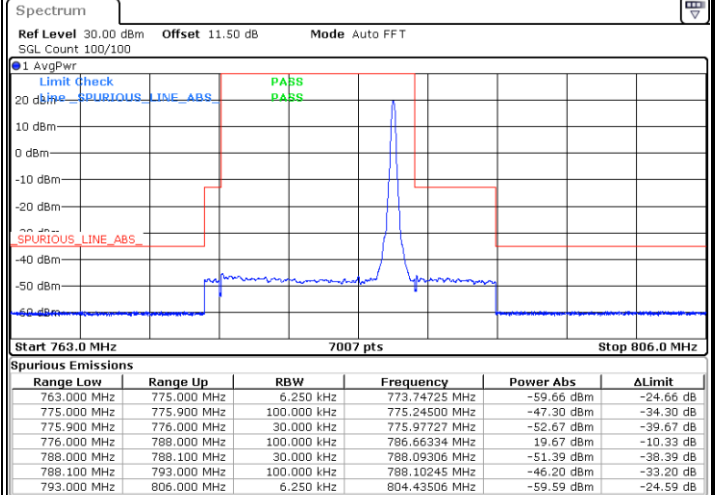
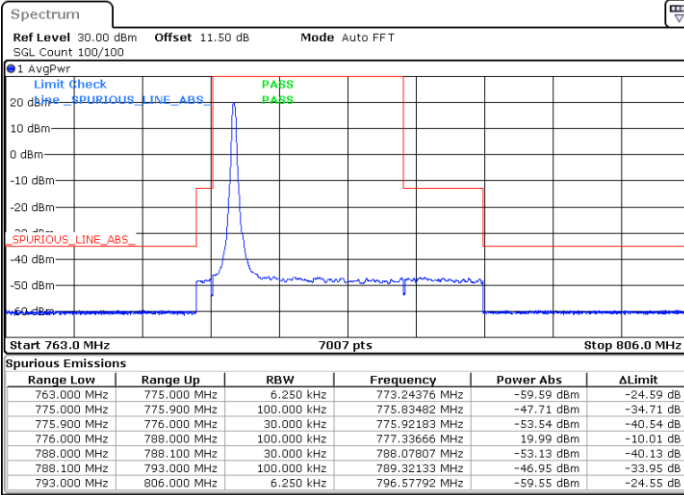
Date: 29.MAY.2024 23:26:33



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

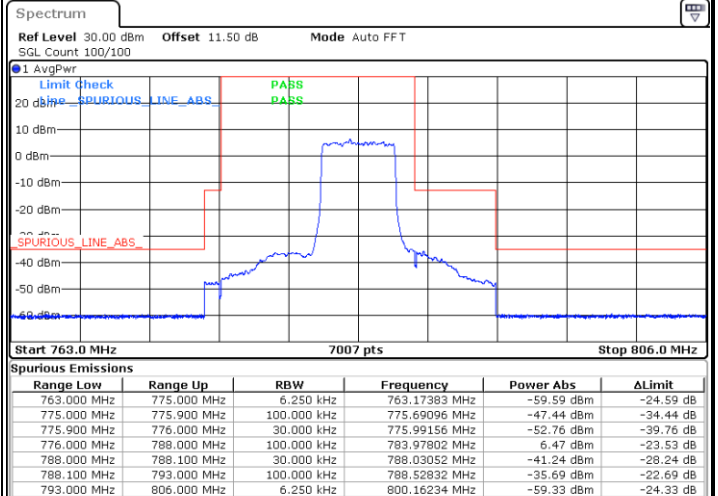
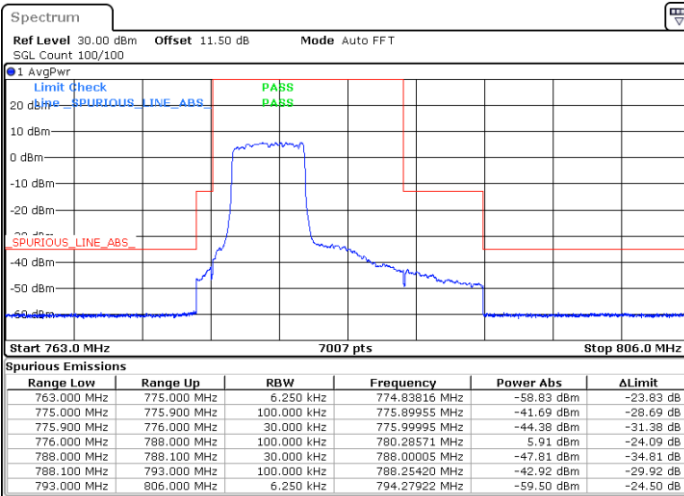


Date: 29.MAY.2024 23:32:08

Date: 29.MAY.2024 23:35:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAY.2024 23:31:05

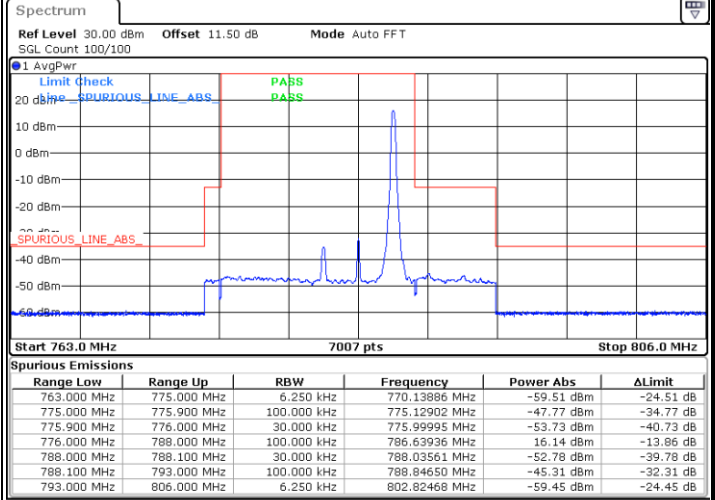
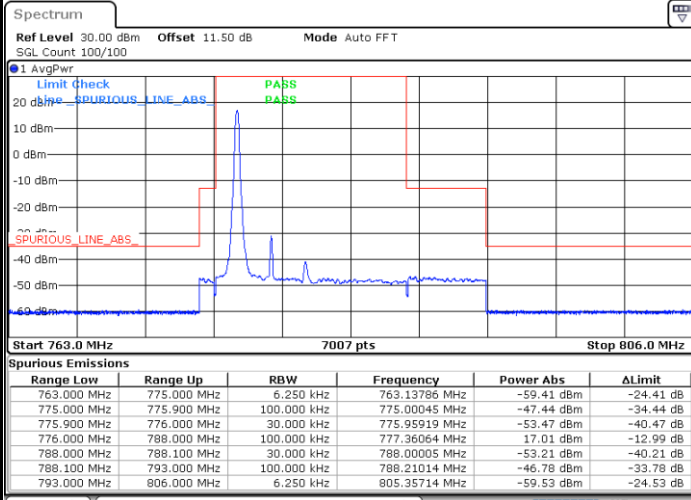
Date: 29.MAY.2024 23:34:15



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

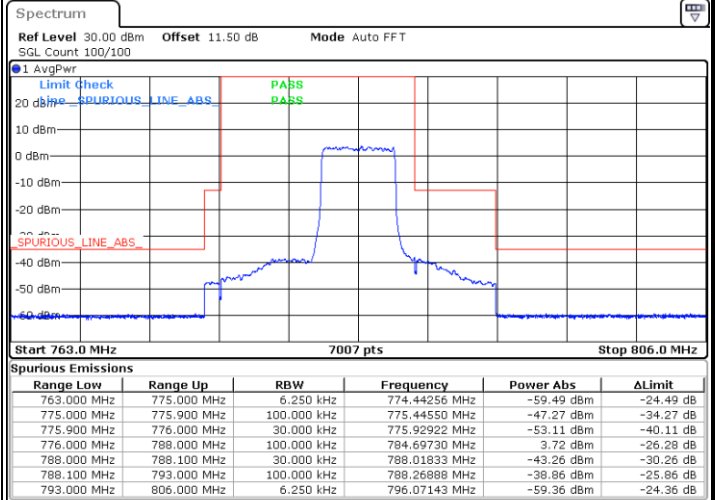
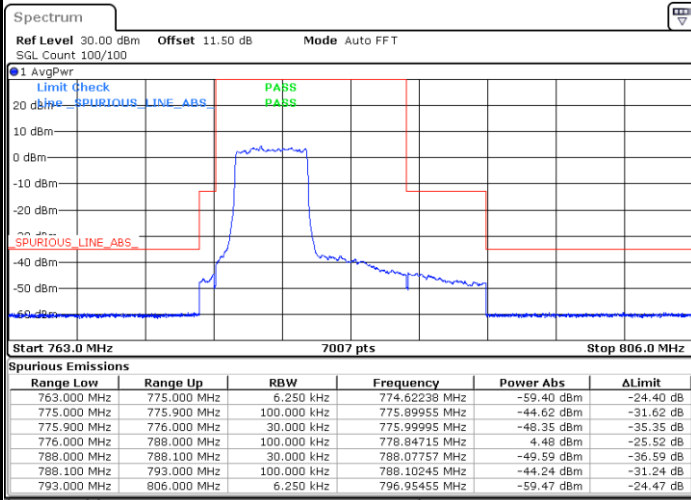


Date: 29.MAY.2024 23:45:30

Date: 29.MAY.2024 23:50:05

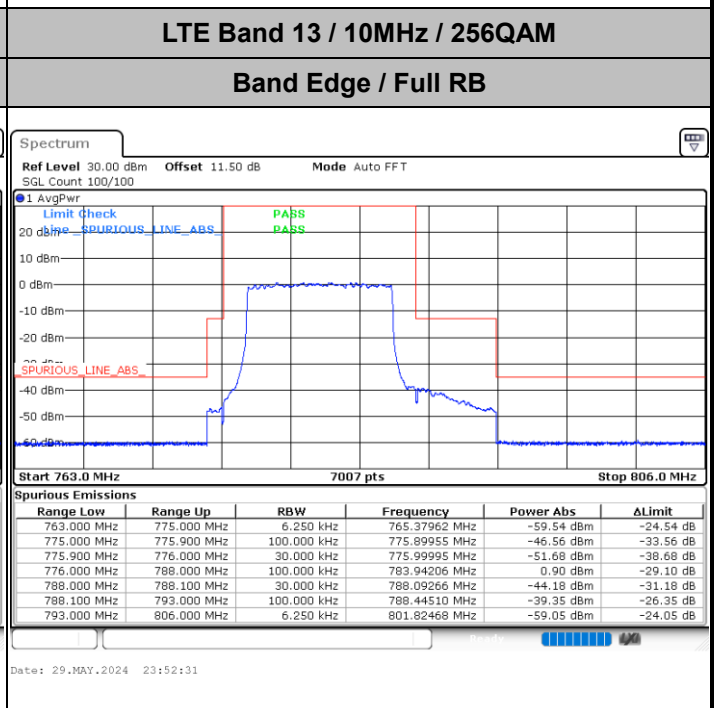
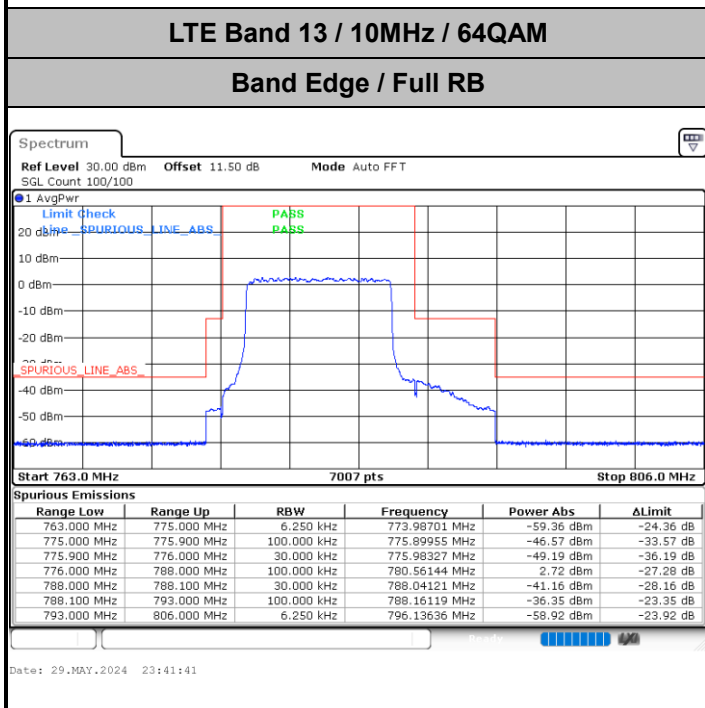
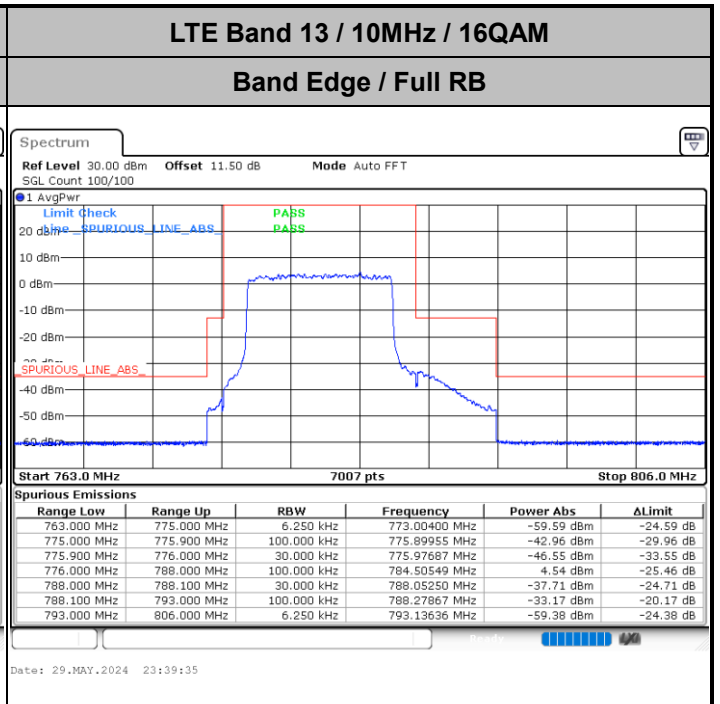
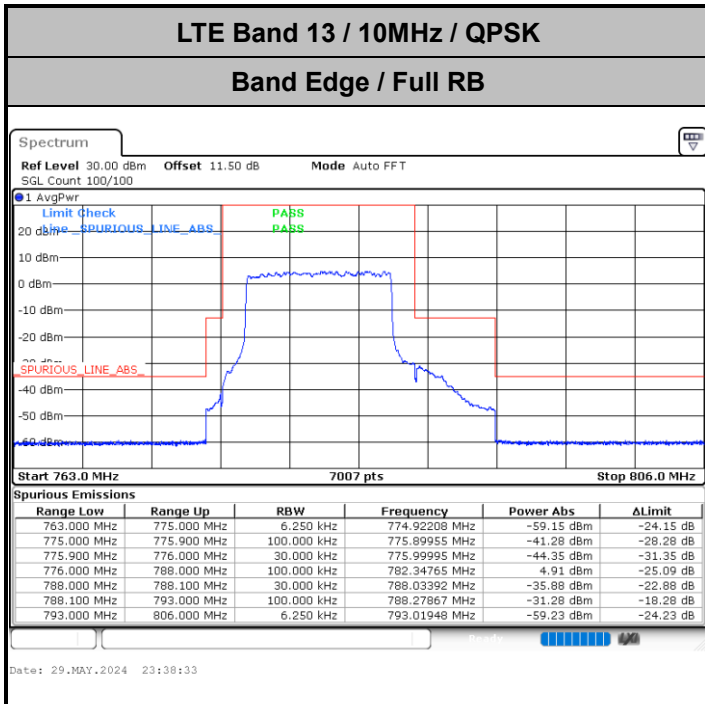
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAY.2024 23:44:25

Date: 29.MAY.2024 23:48:59





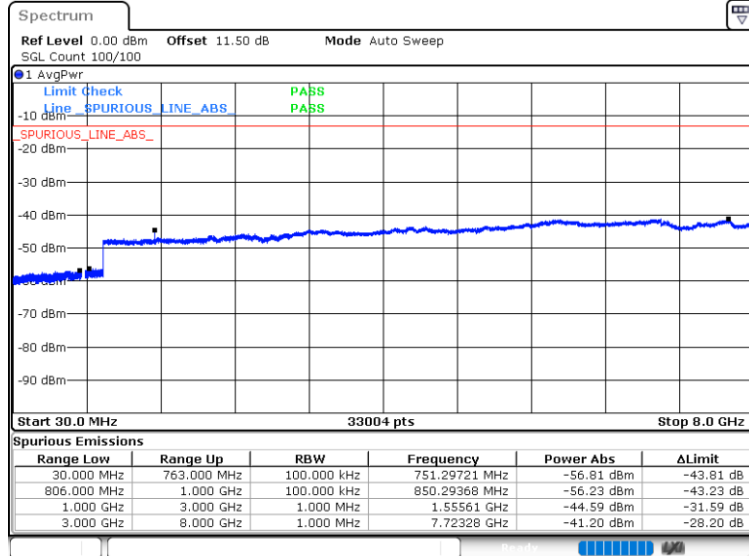
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 29.MAY.2024 23:54:26



Frequency Stability

| Test Conditions  |                   | LTE Band 13 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0176                              | PASS    |
| 40               | Normal Voltage    | 0.0165                              |         |
| 30               | Normal Voltage    | 0.0054                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0054                              |         |
| 0                | Normal Voltage    | 0.0045                              |         |
| -10              | Normal Voltage    | 0.0010                              |         |
| -20              | Normal Voltage    | 0.0001                              |         |
| -30              | Normal Voltage    | 0.0109                              |         |
| 20               | Maximum Voltage   | 0.0120                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0054                              |         |

Note:

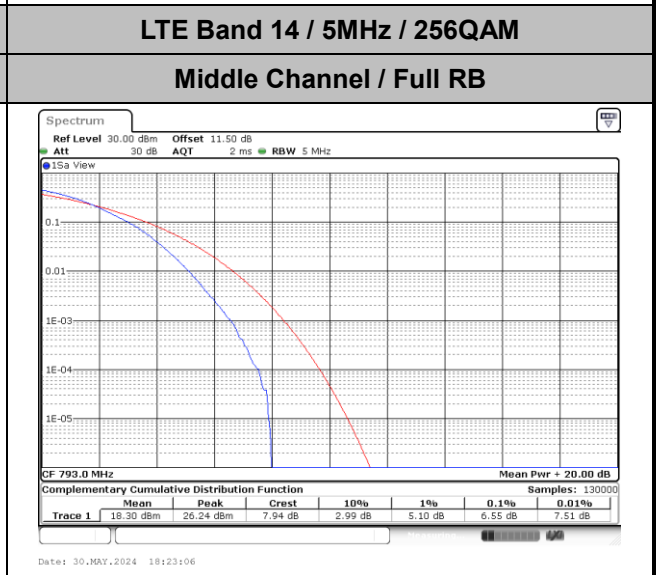
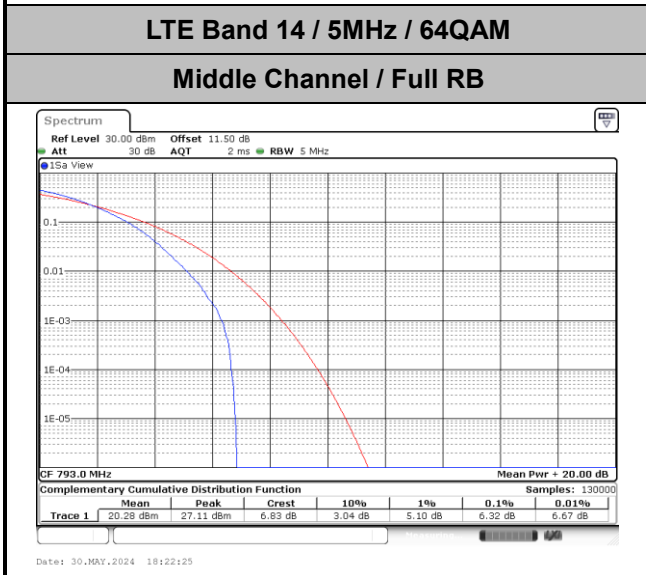
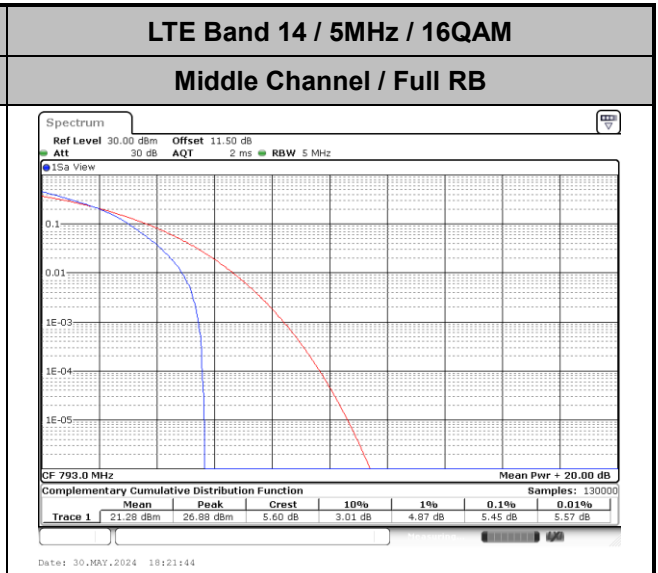
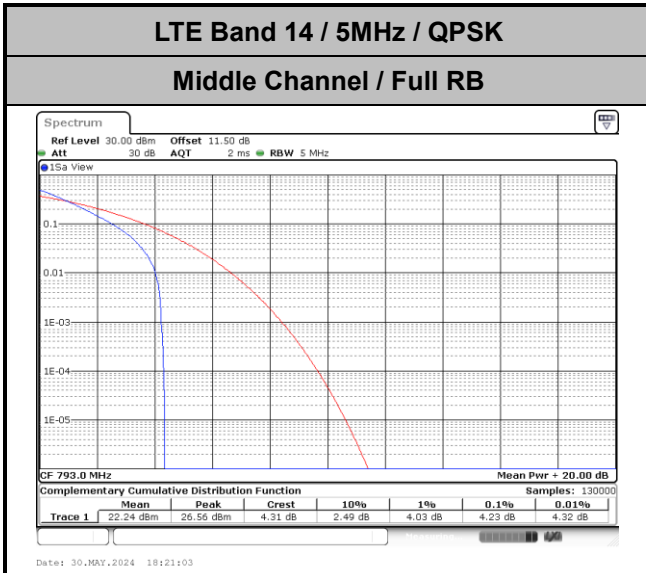
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =3.465 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



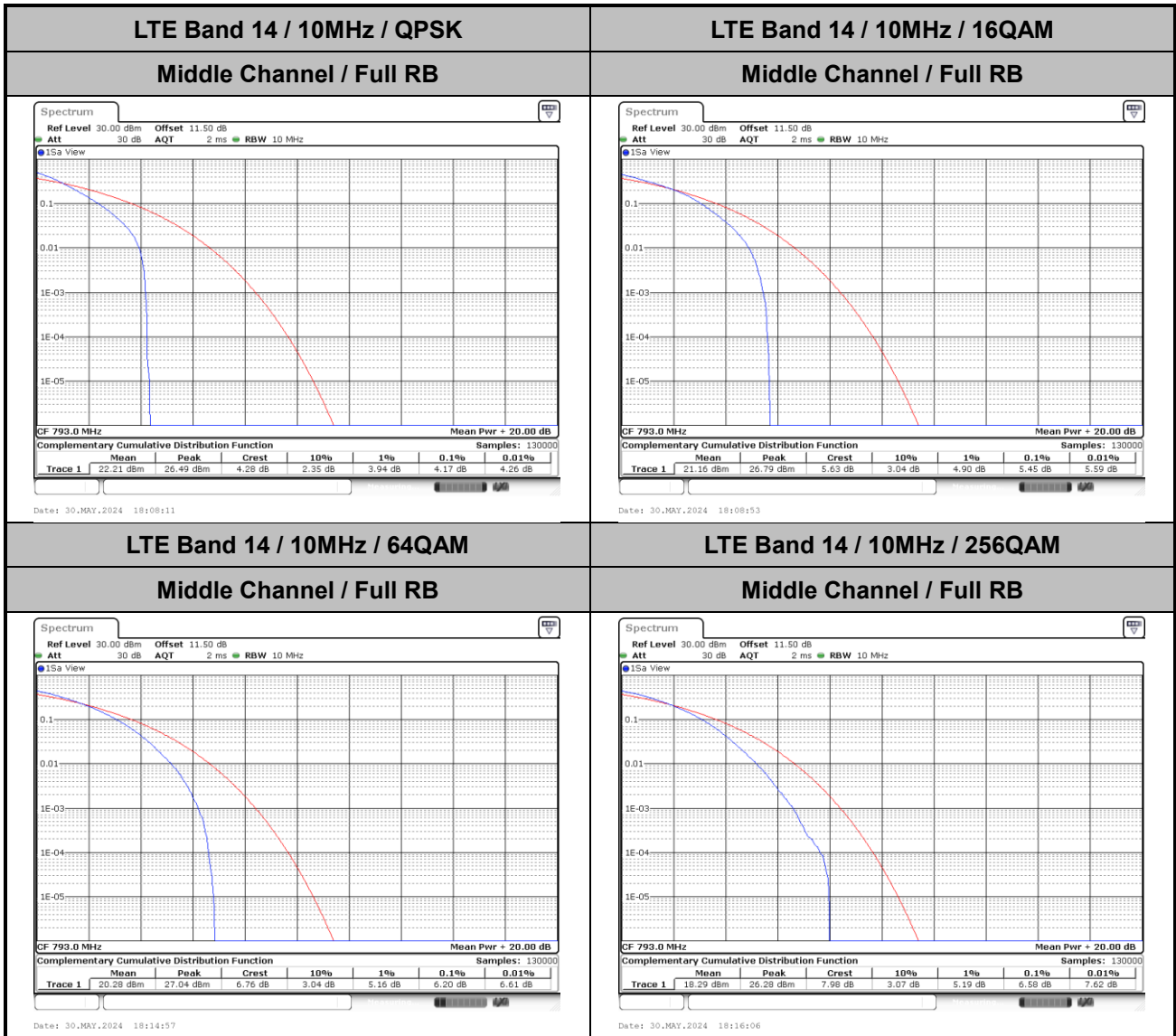
# LTE Band 14

## Peak-to-Average Ratio

| Mode      | LTE Band 14 / 5MHz  |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.23                | 5.45    | 6.32    | 6.55    | PASS        |
| Mode      | LTE Band 14 / 10MHz |         |         |         |             |
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.17                | 5.45    | 6.20    | 6.58    | PASS        |









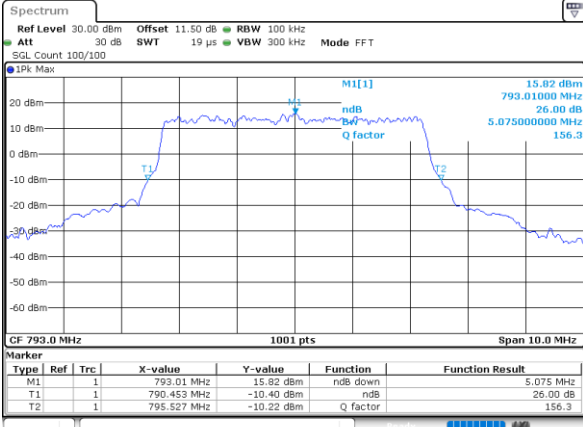
**26dB Bandwidth**

| Mode      | LTE Band 14 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|----------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                       | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | -                          | -      | -     | -      | 5.07  | 4.93   | 9.91  | 9.81   | -     | -      | -     | -      |
| Mode      | LTE Band 14 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                      | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | -                          | -      | -     | -      | 5.11  | 5.00   | 9.73  | 9.89   | -     | -      | -     | -      |



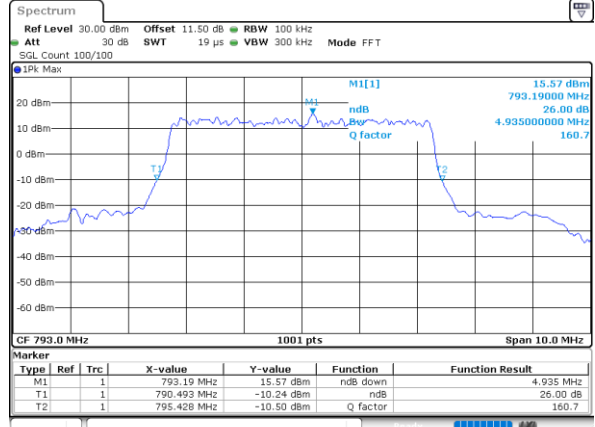
LTE Band 14

Middle Channel / 5MHz / QPSK



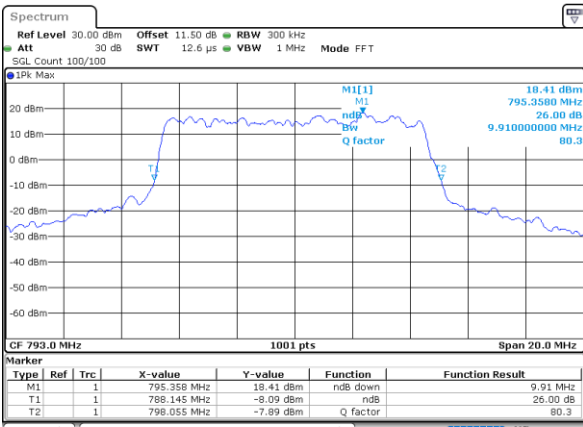
Date: 30.MAY.2024 16:20:08

Middle Channel / 5MHz / 16QAM



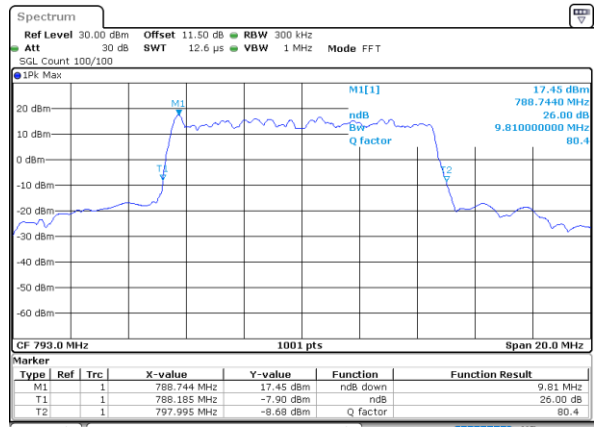
Date: 30.MAY.2024 16:20:47

Middle Channel / 10MHz / QPSK



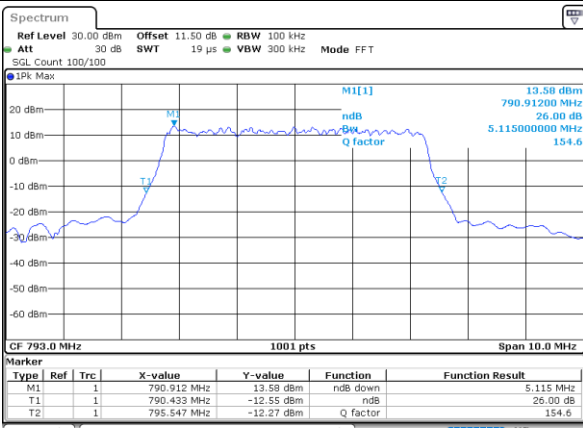
Date: 30.MAY.2024 18:07:41

Middle Channel / 10MHz / 16QAM



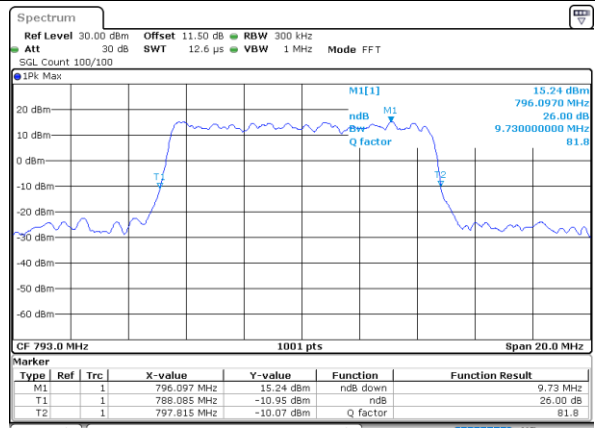
Date: 30.MAY.2024 18:10:08

Middle Channel / 5MHz / 64QAM



Date: 30.MAY.2024 16:22:17

Middle Channel / 10MHz / 64QAM



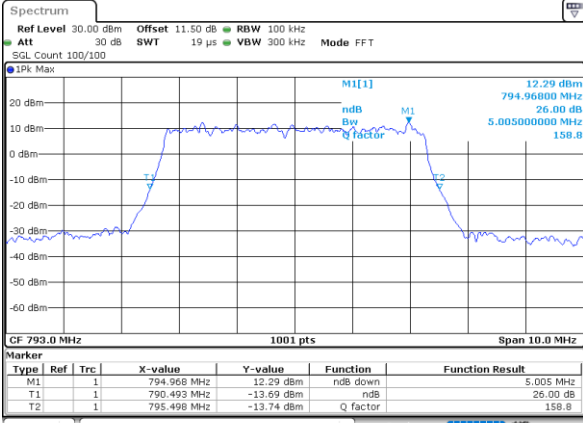
Date: 30.MAY.2024 18:15:23



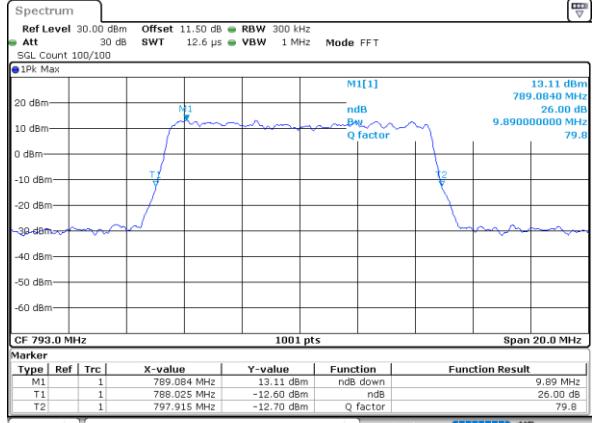
LTE Band 14

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 30.MAY.2024 16:22:58



Date: 30.MAY.2024 18:17:00



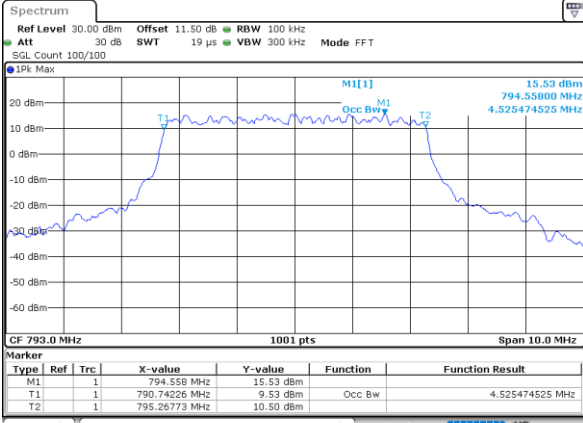
**Occupied Bandwidth**

| Mode      | LTE Band 14 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|---------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                      | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | -                         | -      | -     | -      | 4.52  | 4.49   | 9.05  | 9.07   | -     | -      | -     | -      |
| Mode      | LTE Band 14 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                     | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | -                         | -      | -     | -      | 4.47  | 4.51   | 9.03  | 9.05   | -     | -      | -     | -      |



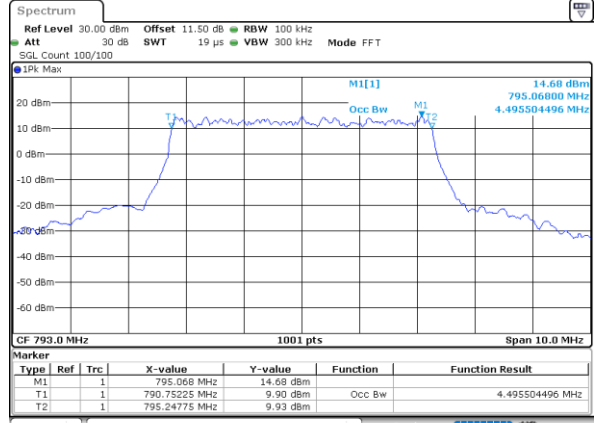
LTE Band 14

Middle Channel / 5MHz / QPSK



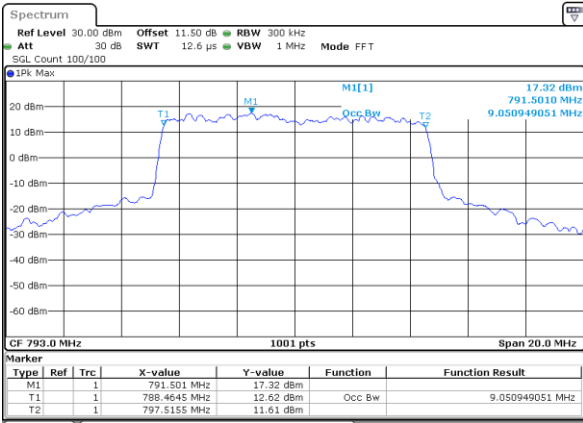
Date: 30.MAY.2024 16:19:43

Middle Channel / 5MHz / 16QAM



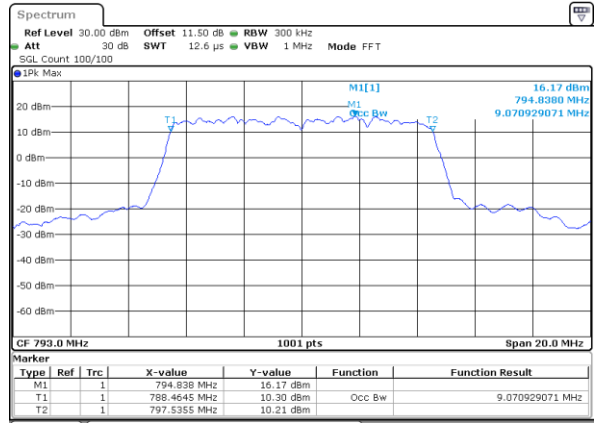
Date: 30.MAY.2024 16:21:12

Middle Channel / 10MHz / QPSK



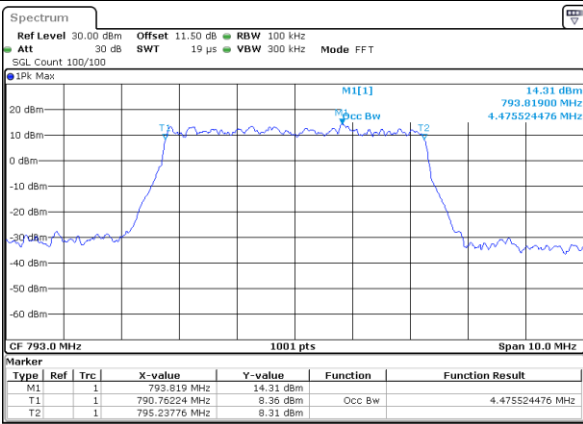
Date: 30.MAY.2024 18:07:16

Middle Channel / 10MHz / 16QAM



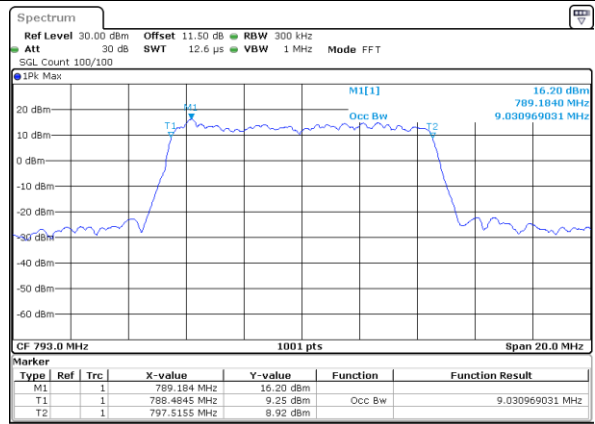
Date: 30.MAY.2024 18:09:38

Middle Channel / 5MHz / 64QAM



Date: 30.MAY.2024 16:21:53

Middle Channel / 10MHz / 64QAM

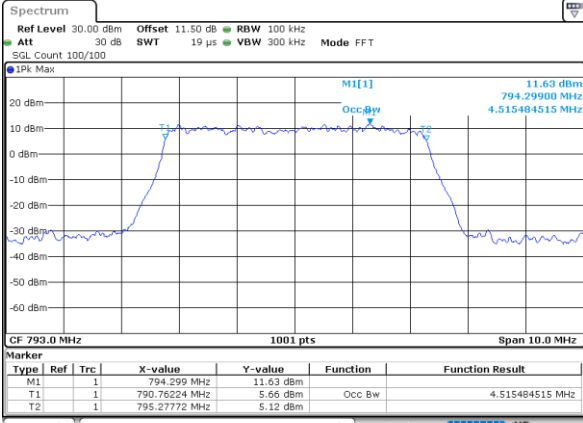


Date: 30.MAY.2024 18:14:31



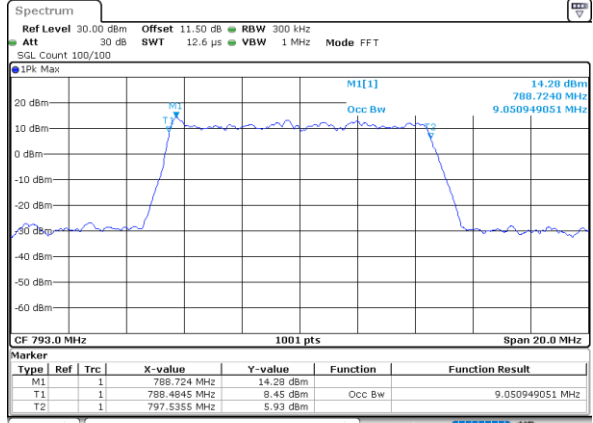
LTE Band 14

Middle Channel / 5MHz / 256QAM



Date: 30.MAY.2024 16:23:43

Middle Channel / 10MHz / 256QAM



Date: 30.MAY.2024 18:16:31

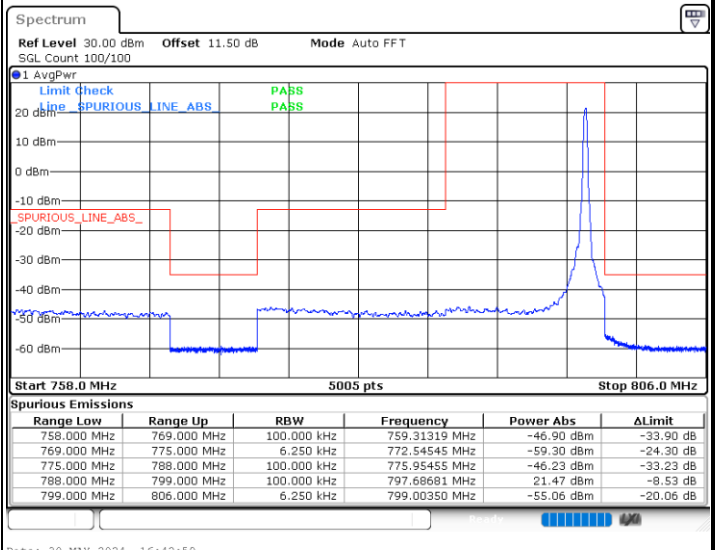
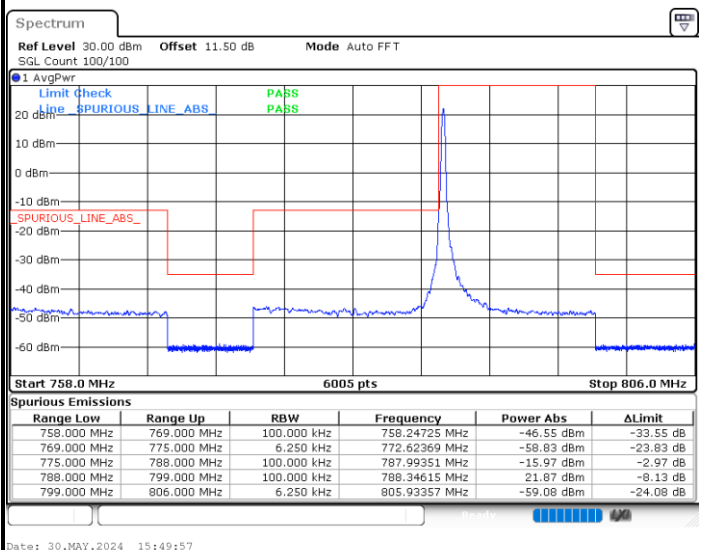


# Conducted Band Edge

## LTE Band 14 / 5MHz / QPSK

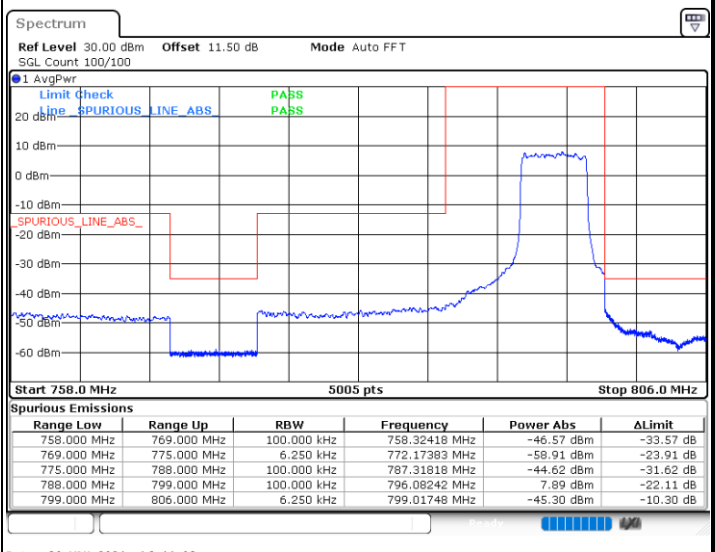
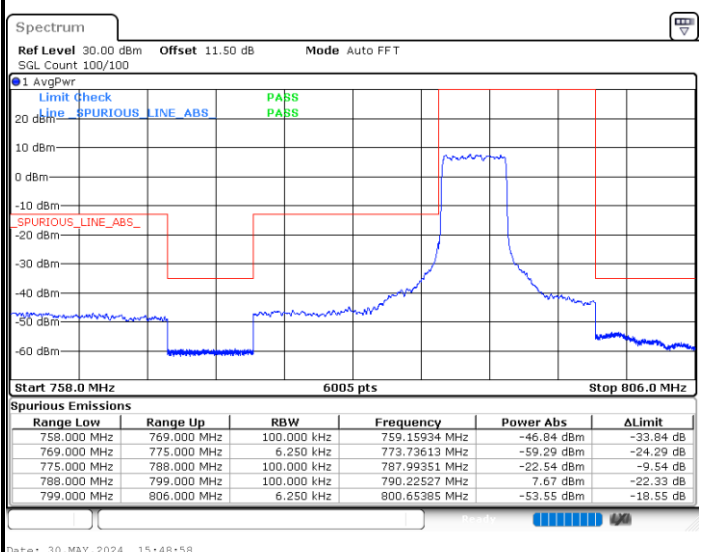
### Lowest Band Edge / 1 RB

### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB

### Highest Band Edge / Full RB

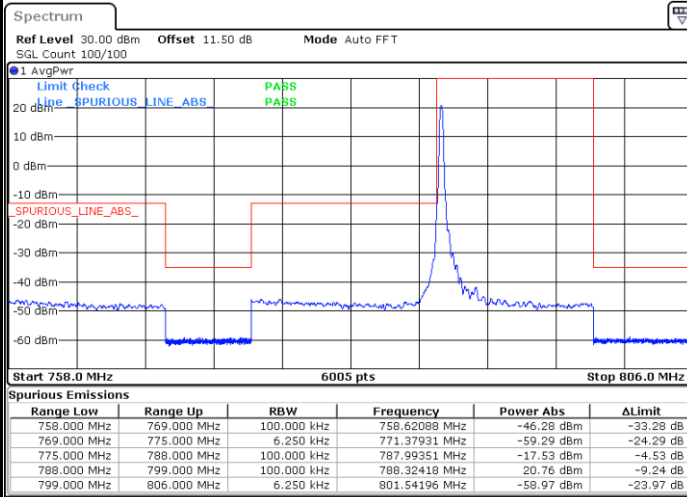






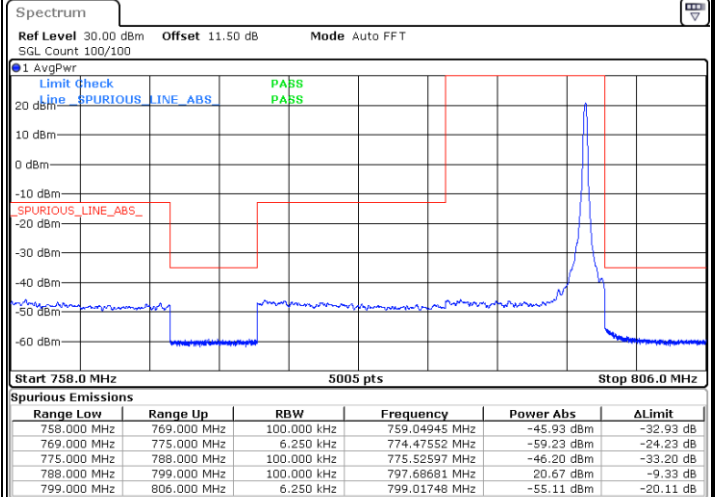
LTE Band 14 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



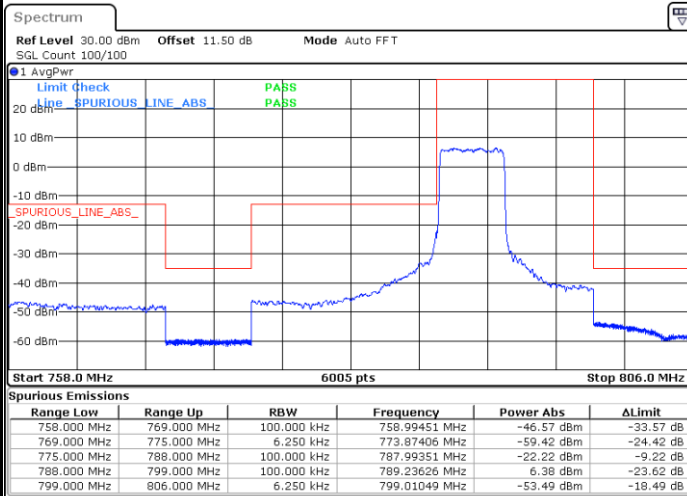
Date: 30.MAY.2024 15:52:11

Highest Band Edge / 1 RB



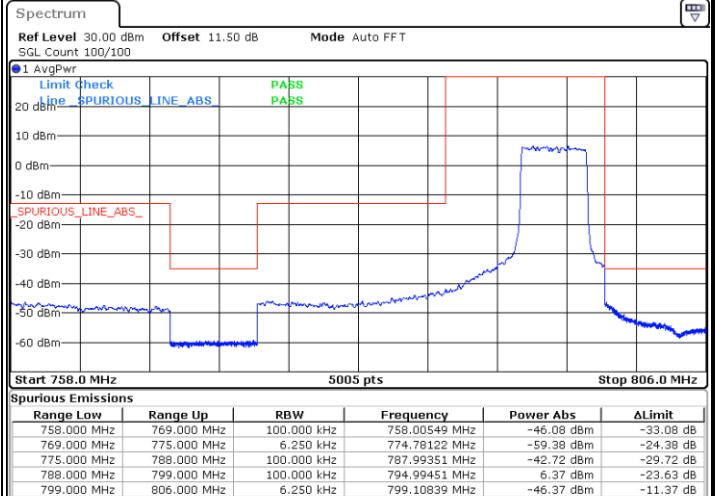
Date: 30.MAY.2024 16:46:19

Lowest Band Edge / Full RB



Date: 30.MAY.2024 15:53:12

Highest Band Edge / Full RB



Date: 30.MAY.2024 16:45:13