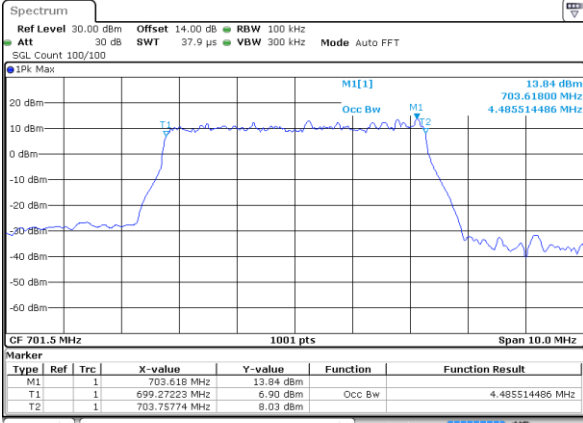




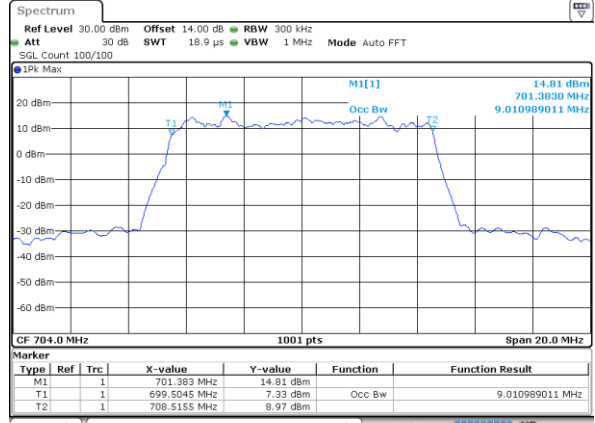
LTE Band 12

Lowest Channel / 5MHz / 64QAM



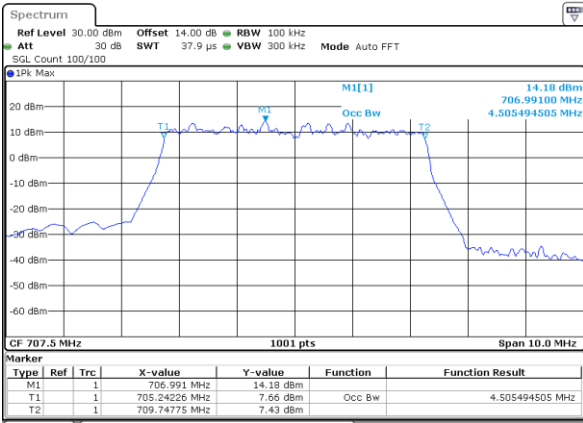
Date: 29 OCT 2022 10:43:45

Lowest Channel / 10MHz / 64QAM



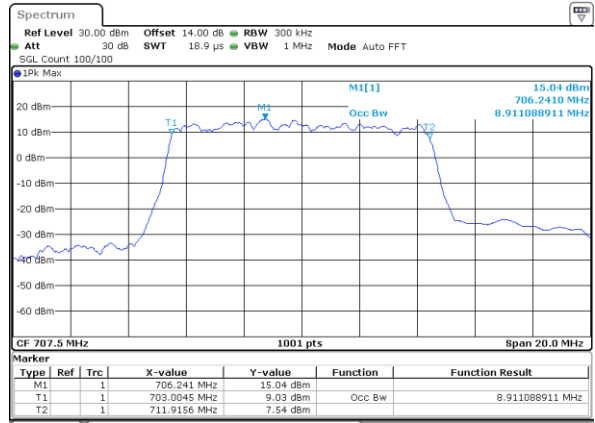
Date: 29 OCT 2022 10:54:13

Middle Channel / 5MHz / 64QAM



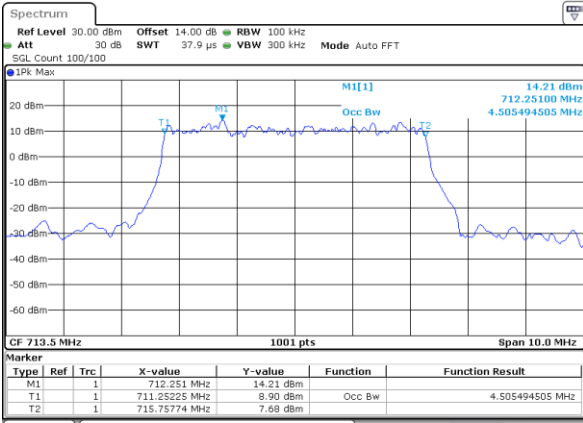
Date: 29 OCT 2022 10:47:56

Middle Channel / 10MHz / 64QAM



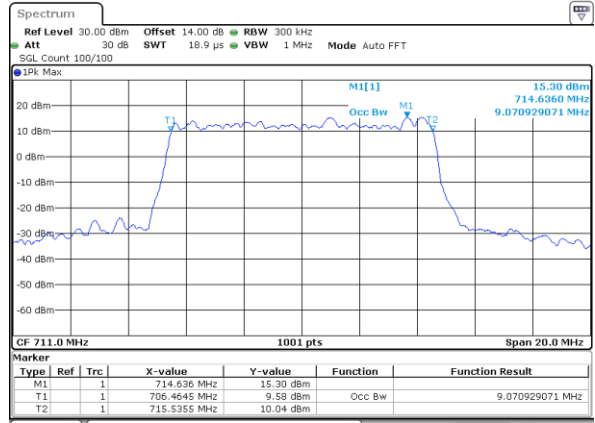
Date: 29 OCT 2022 10:58:24

Highest Channel / 5MHz / 64QAM



Date: 29 OCT 2022 10:49:52

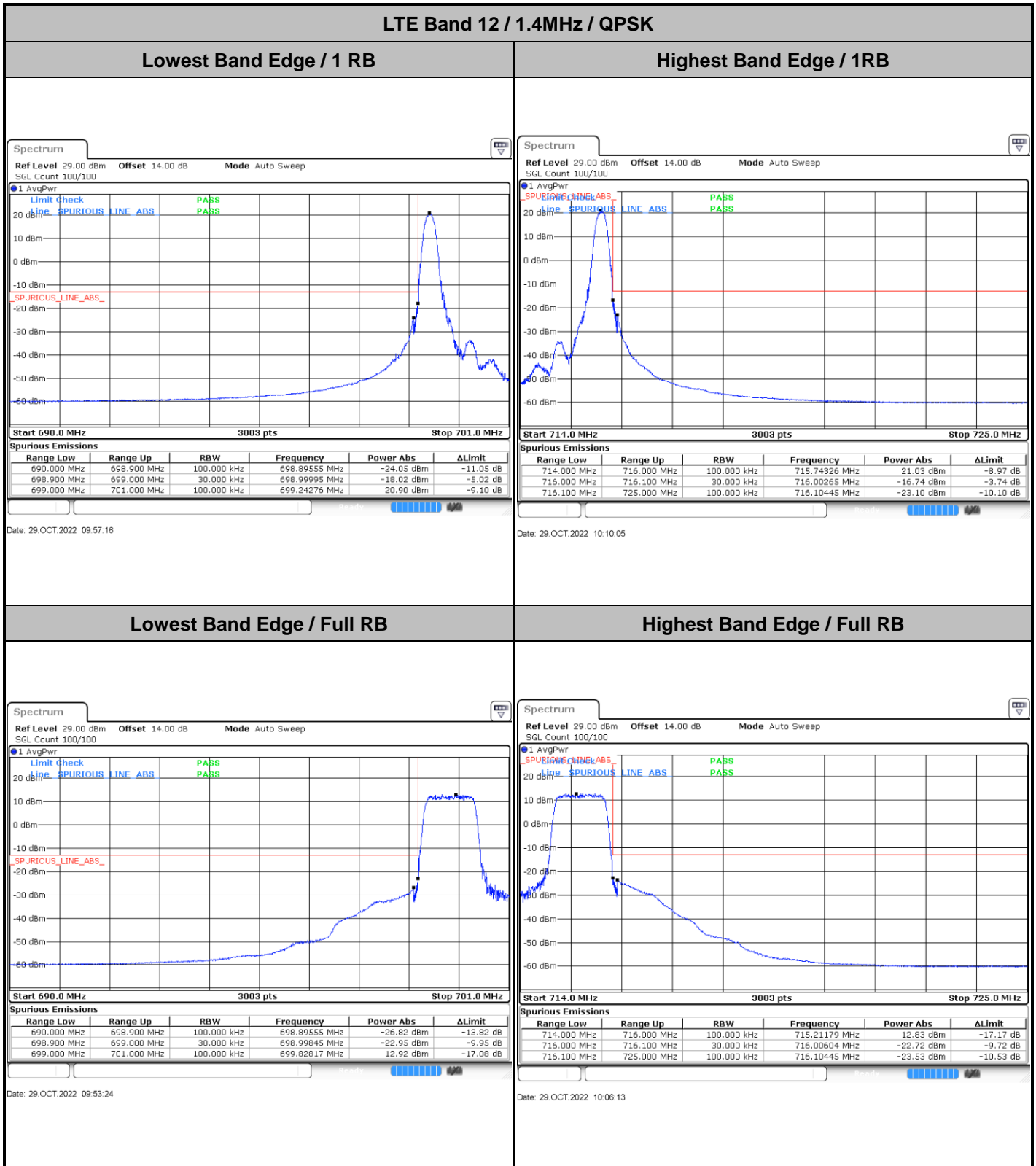
Highest Channel / 10MHz / 64QAM



Date: 29 OCT 2022 11:00:19



# Conducted Band Edge





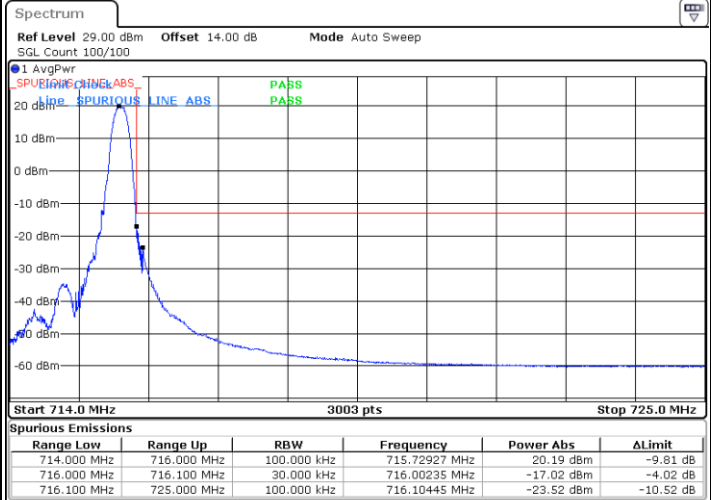
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



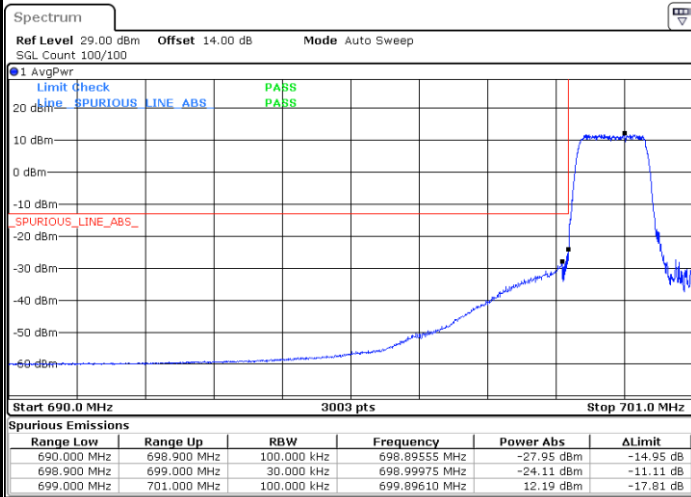
Date: 29.OCT.2022 09:55:58

Highest Band Edge / 1 RB



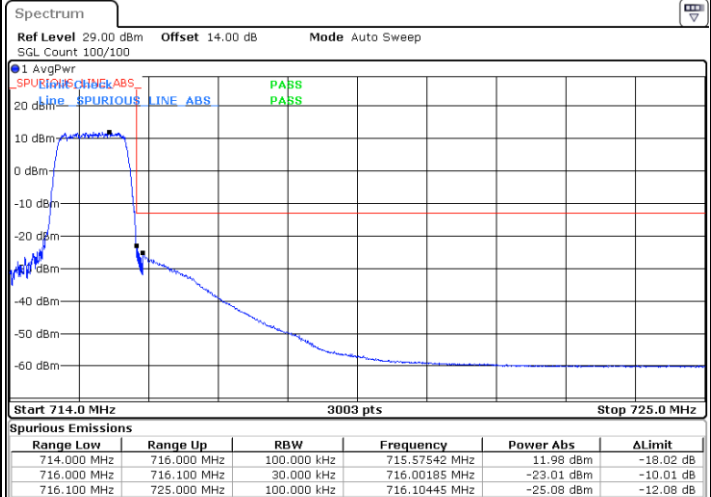
Date: 29.OCT.2022 10:08:48

Lowest Band Edge / Full RB



Date: 29.OCT.2022 09:54:41

Highest Band Edge / Full RB

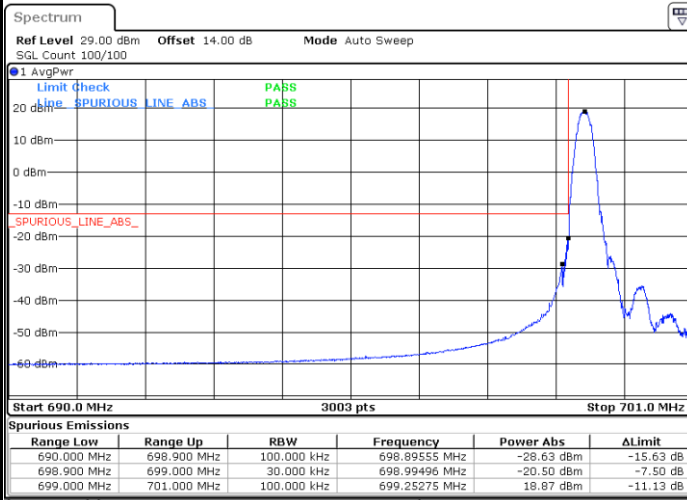


Date: 29.OCT.2022 10:07:30



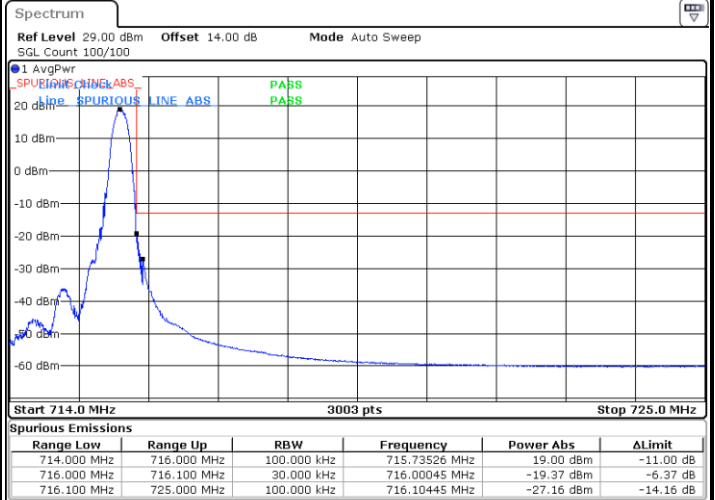
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



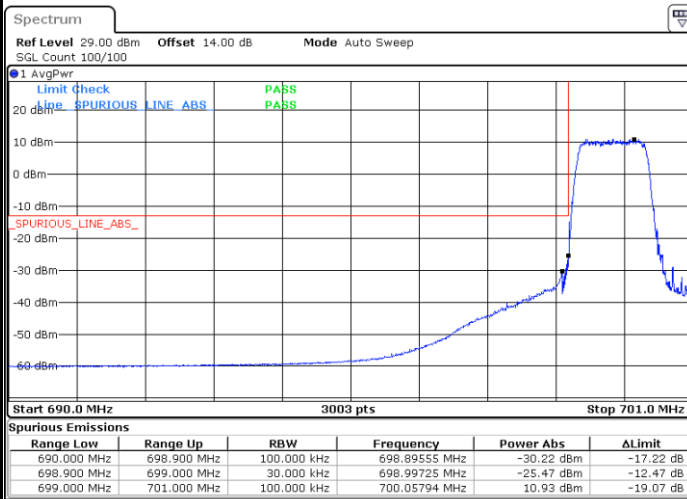
Date: 29.OCT.2022 11:07:58

Highest Band Edge / 1 RB



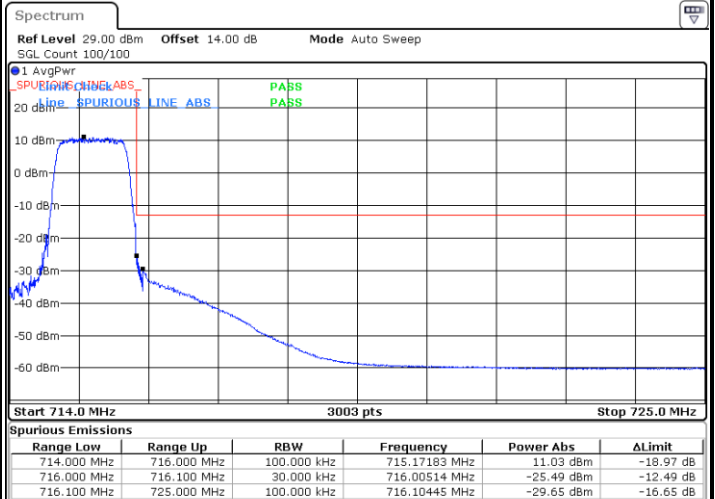
Date: 29.OCT.2022 11:14:04

Lowest Band Edge / Full RB



Date: 29.OCT.2022 11:06:40

Highest Band Edge / Full RB

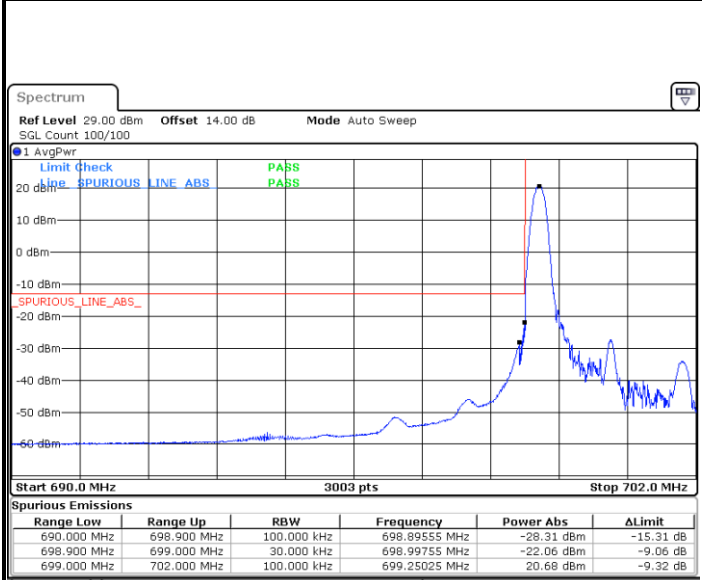


Date: 29.OCT.2022 11:12:47



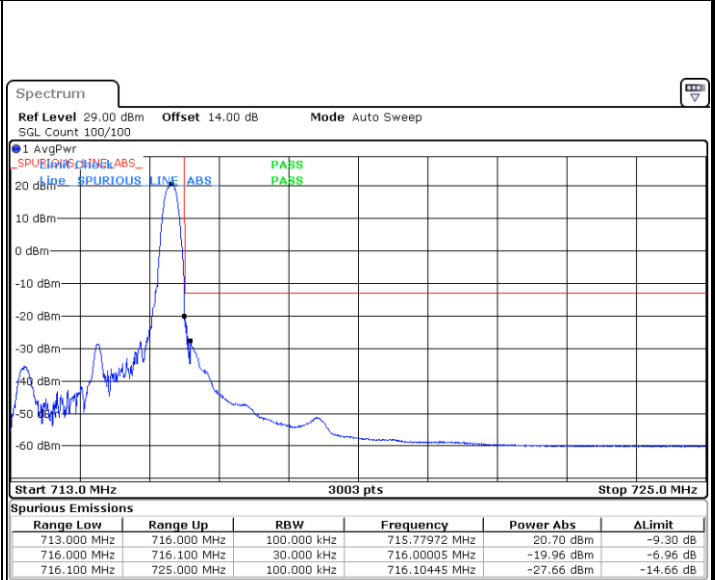
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



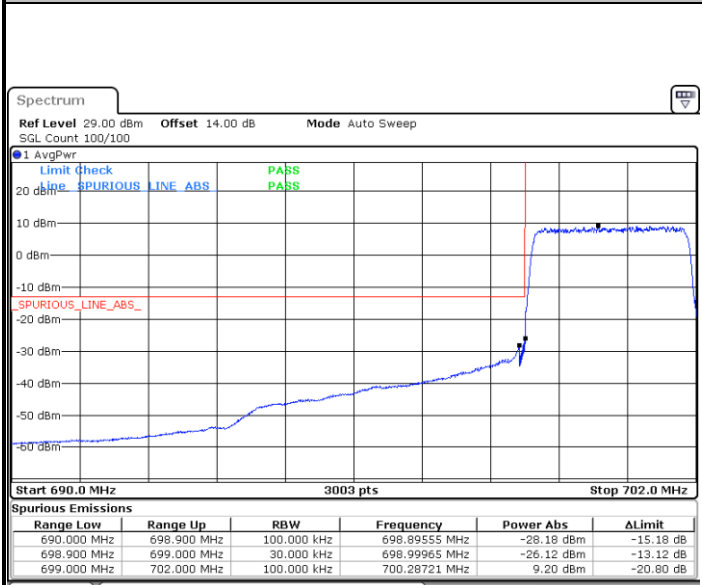
Date: 28.OCT.2022 17:44:45

Highest Band Edge / 1 RB



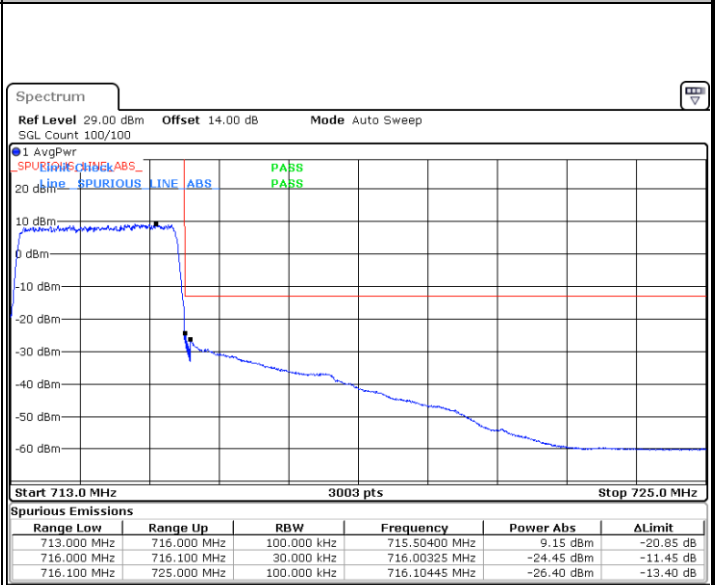
Date: 28.OCT.2022 17:57:34

Lowest Band Edge / Full RB



Date: 28.OCT.2022 17:40:53

Highest Band Edge / Full RB

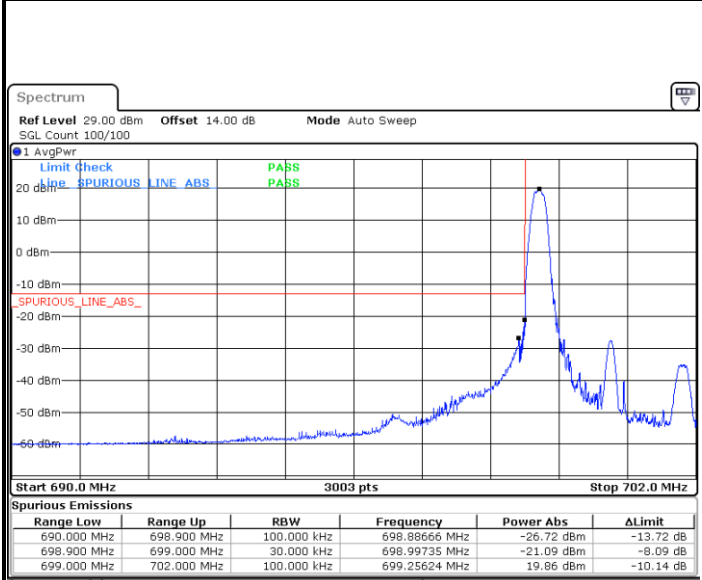


Date: 28.OCT.2022 17:53:42



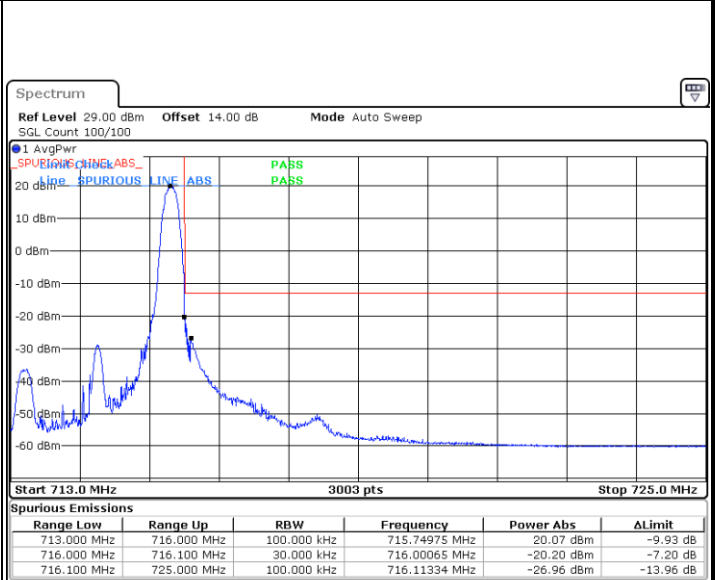
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



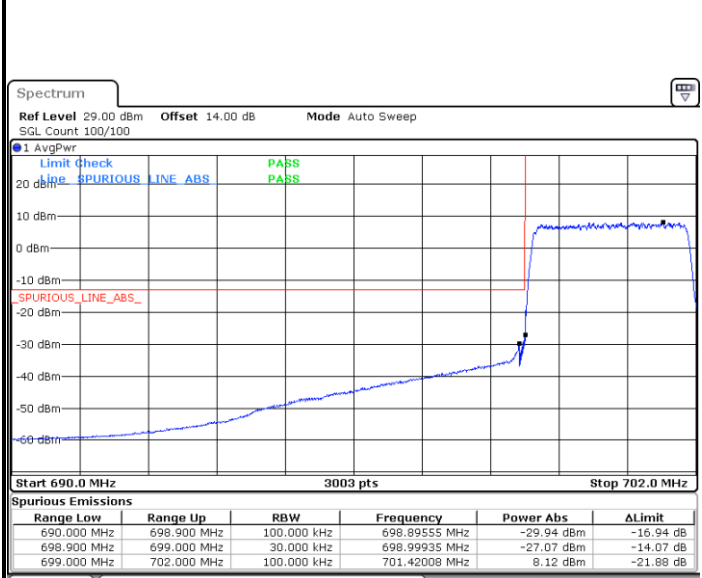
Date: 28.OCT.2022 17:43:28

Highest Band Edge / 1 RB



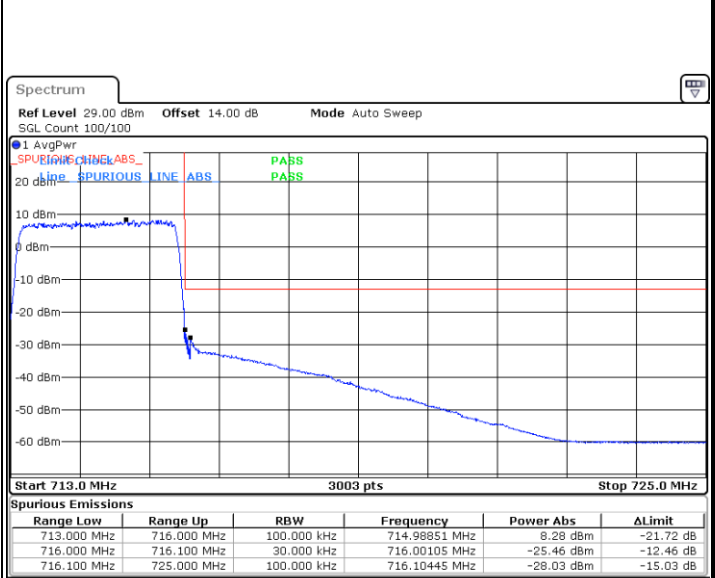
Date: 28.OCT.2022 17:56:16

Lowest Band Edge / Full RB



Date: 28.OCT.2022 17:42:10

Highest Band Edge / Full RB

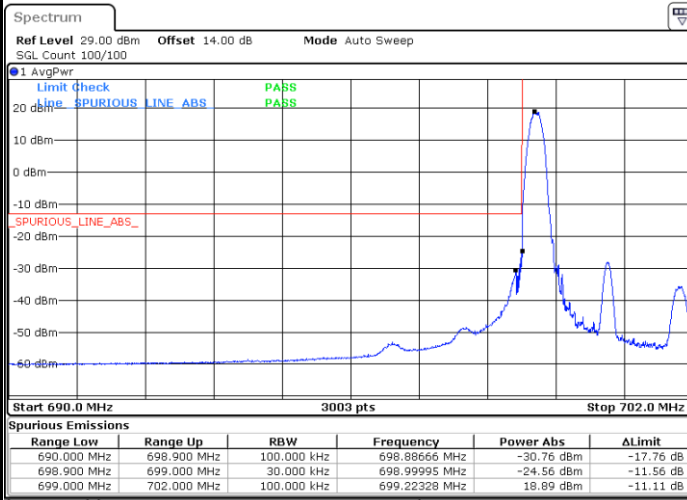


Date: 28.OCT.2022 17:54:59



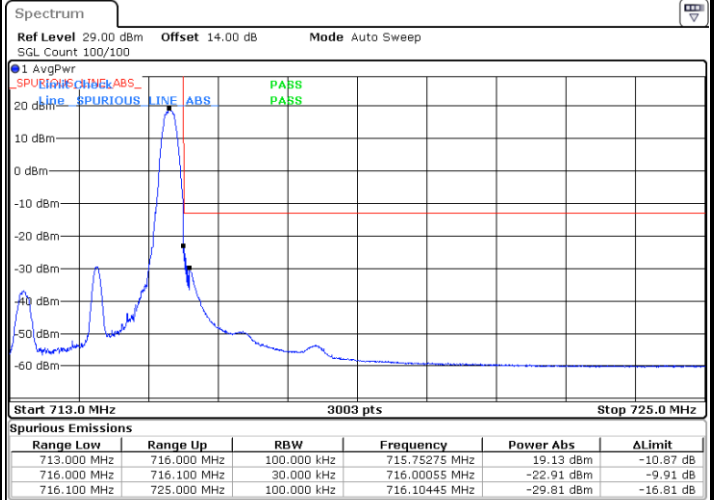
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



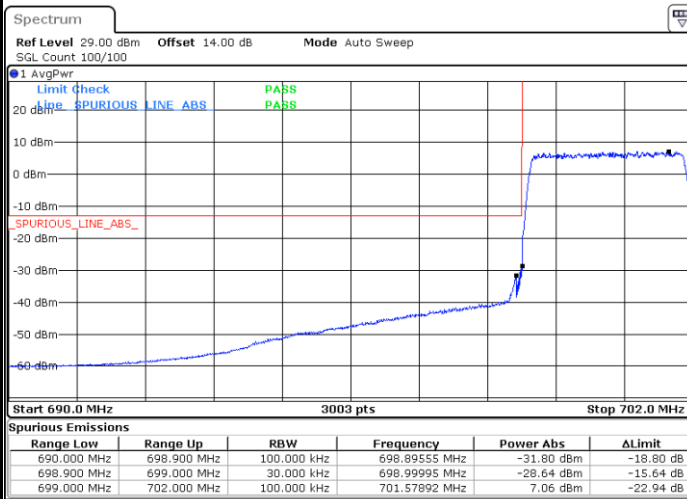
Date: 29.OCT.2022 10:35:56

Highest Band Edge / 1 RB



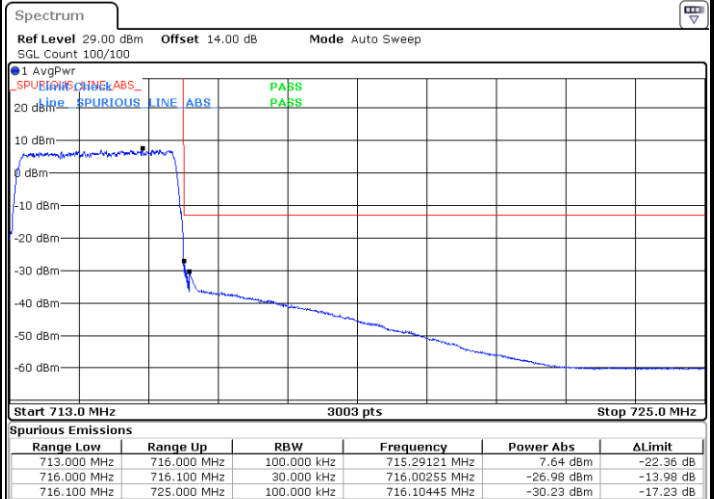
Date: 29.OCT.2022 10:42:03

Lowest Band Edge / Full RB



Date: 29.OCT.2022 10:34:39

Highest Band Edge / Full RB

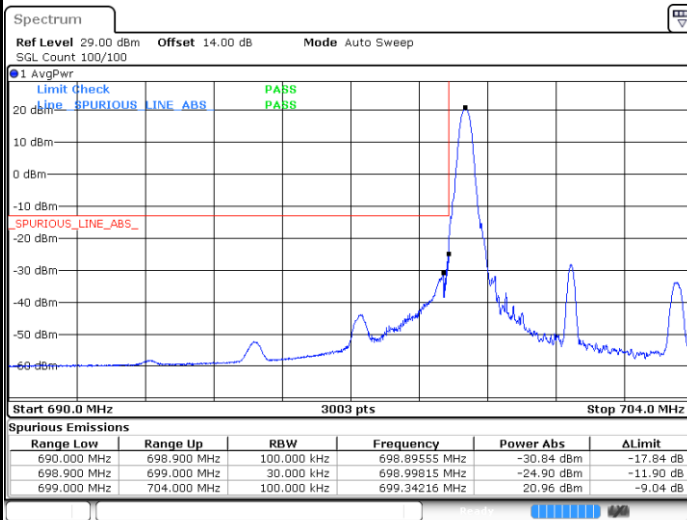


Date: 29.OCT.2022 10:40:45



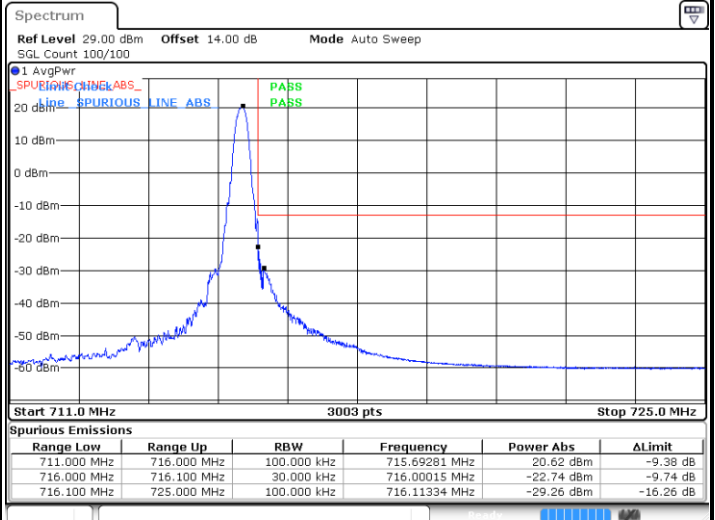
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



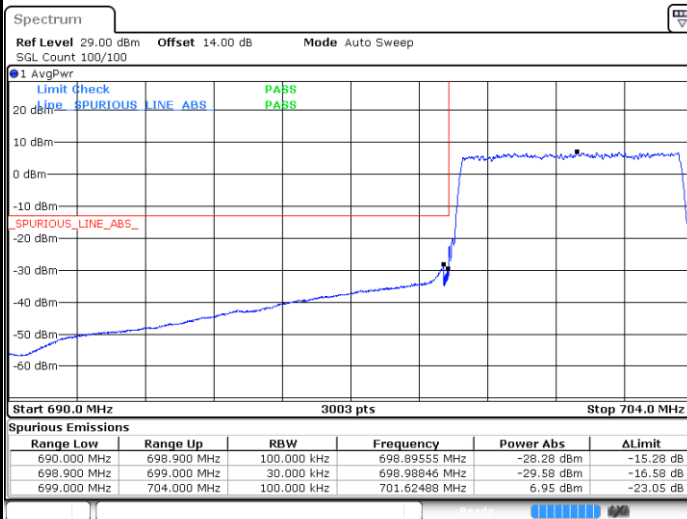
Date: 28.OCT.2022 18:06:34

Highest Band Edge / 1 RB



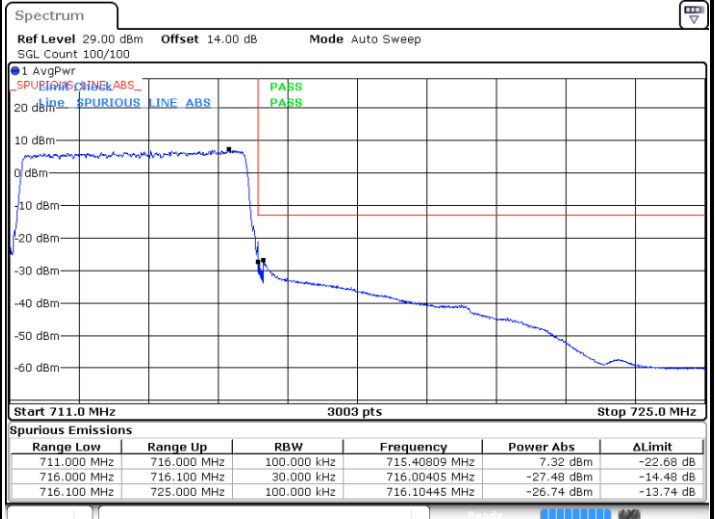
Date: 28.OCT.2022 18:18:06

Lowest Band Edge / Full RB



Date: 28.OCT.2022 18:02:43

Highest Band Edge / Full RB



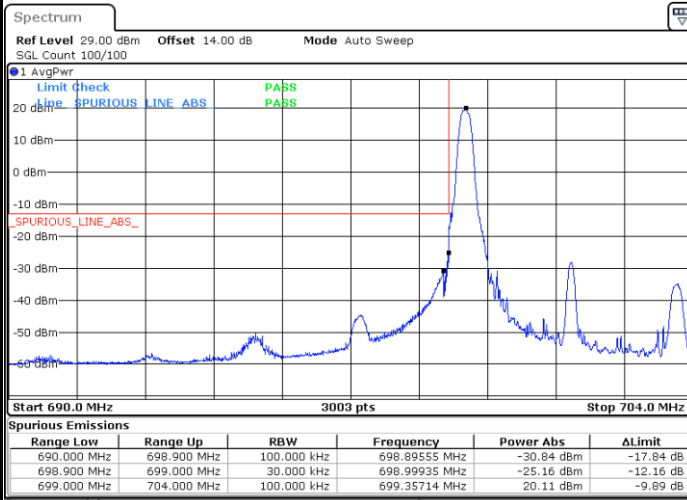
Date: 28.OCT.2022 18:15:32





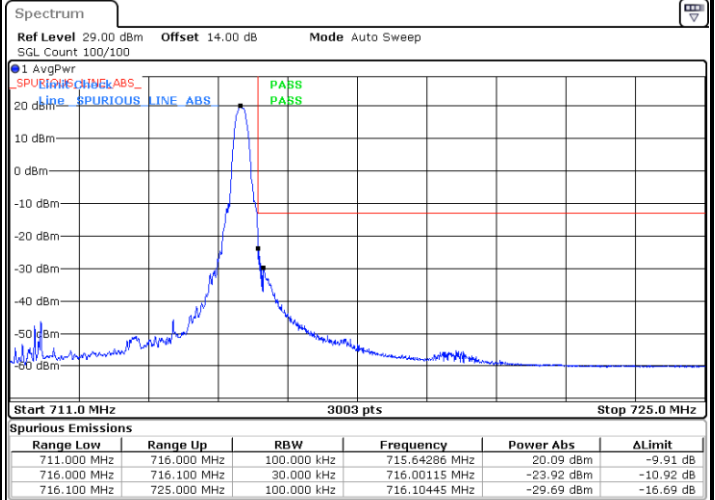
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



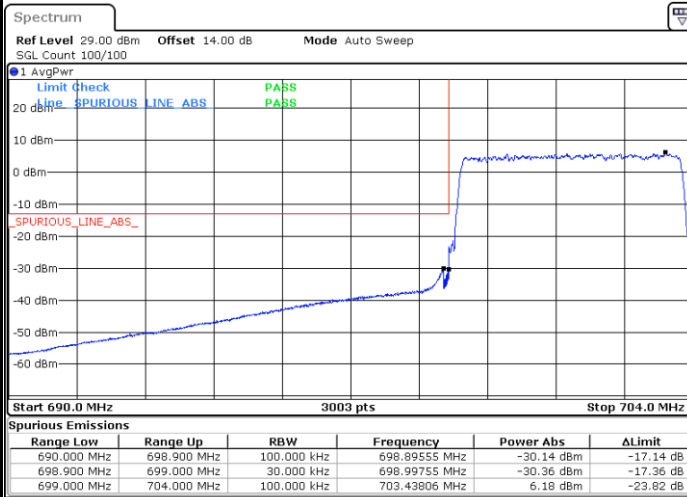
Date: 28.OCT.2022 18:05:17

Highest Band Edge / 1 RB



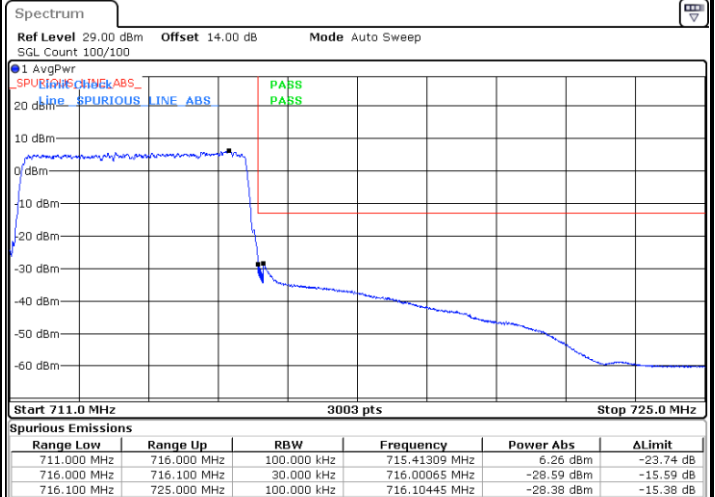
Date: 28.OCT.2022 18:19:23

Lowest Band Edge / Full RB



Date: 28.OCT.2022 18:04:00

Highest Band Edge / Full RB

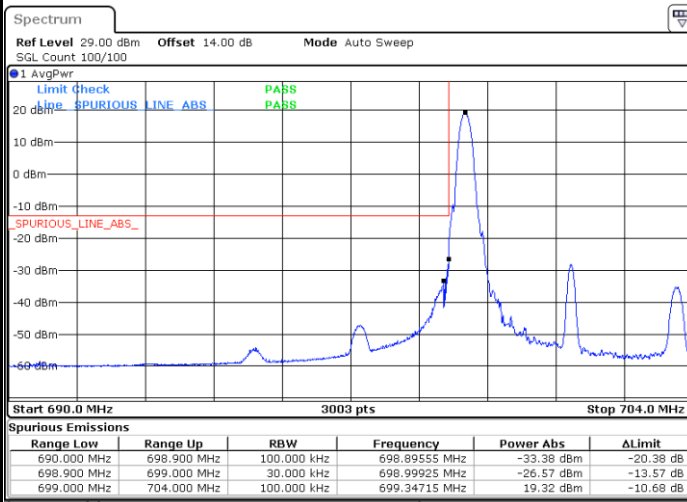


Date: 28.OCT.2022 18:16:49



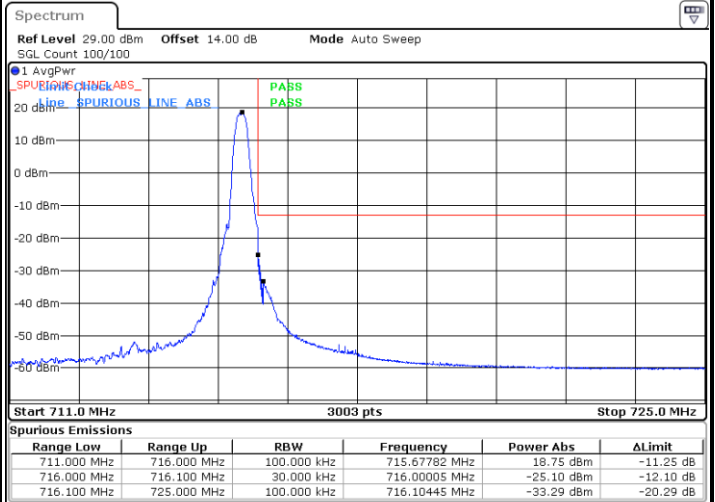
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



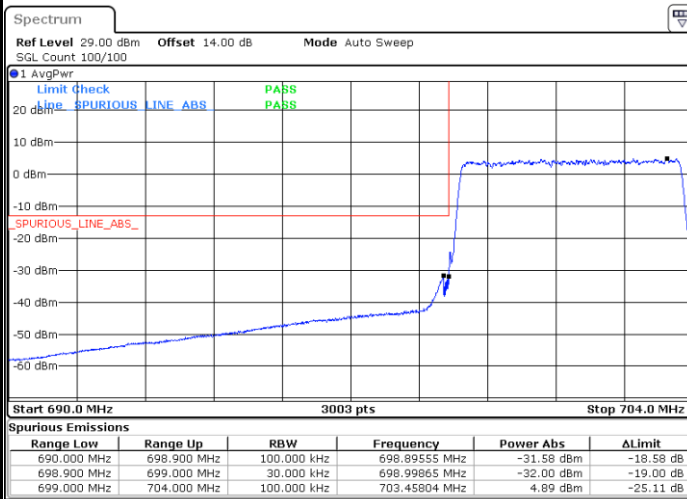
Date: 29.OCT.2022 10:46:25

Highest Band Edge / 1 RB



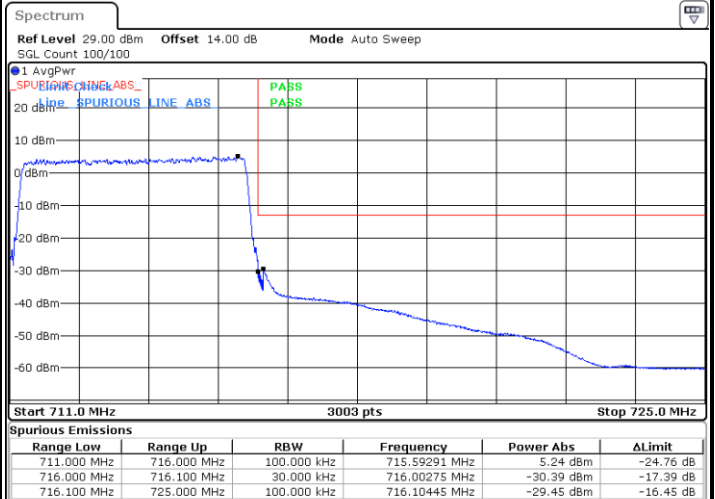
Date: 29.OCT.2022 10:52:31

Lowest Band Edge / Full RB



Date: 29.OCT.2022 10:45:07

Highest Band Edge / Full RB

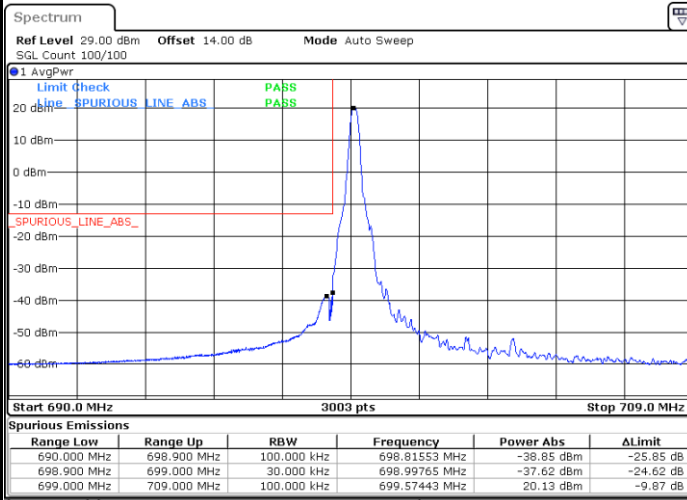


Date: 29.OCT.2022 10:51:14



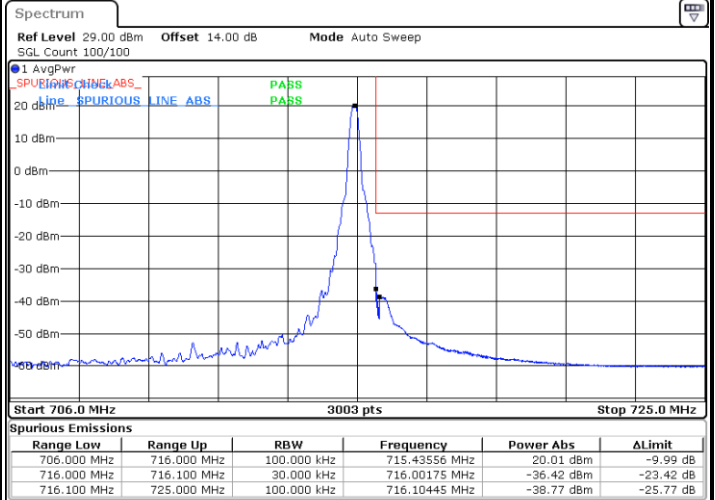
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



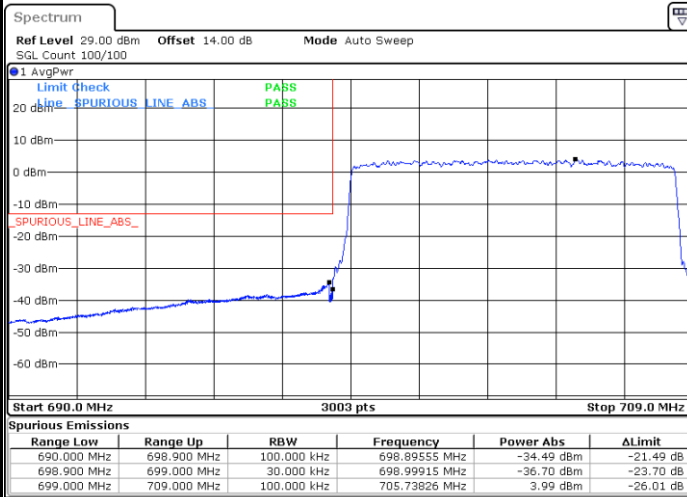
Date: 28.OCT.2022 18:28:24

Highest Band Edge / 1 RB



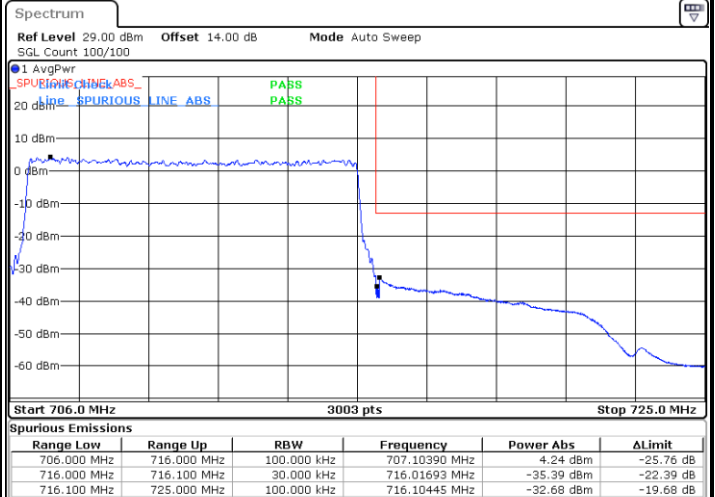
Date: 28.OCT.2022 18:41:12

Lowest Band Edge / Full RB



Date: 28.OCT.2022 18:24:32

Highest Band Edge / Full RB

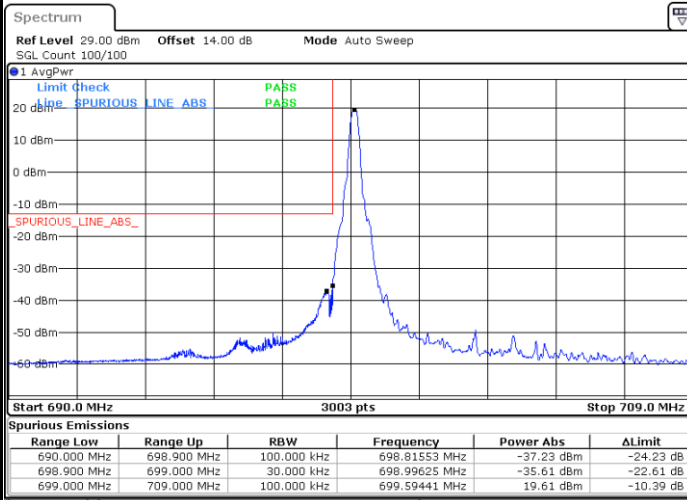


Date: 28.OCT.2022 18:37:20



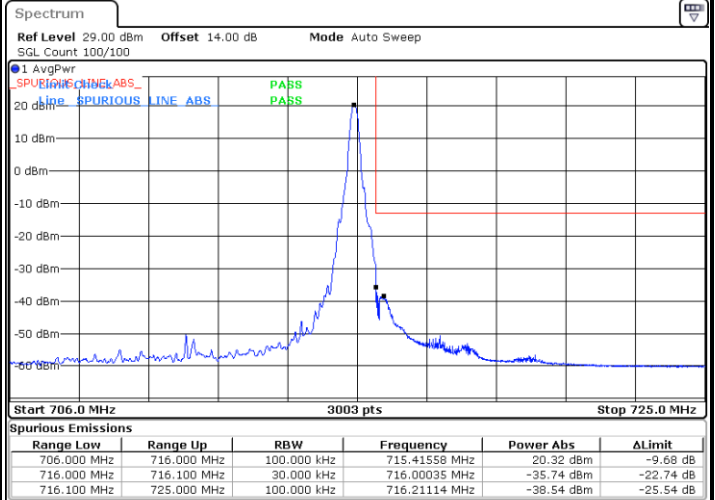
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



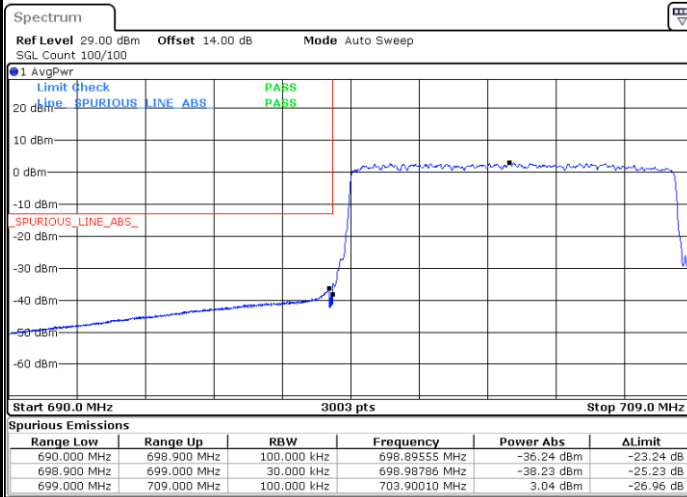
Date: 28.OCT.2022 18:27:06

Highest Band Edge / 1 RB



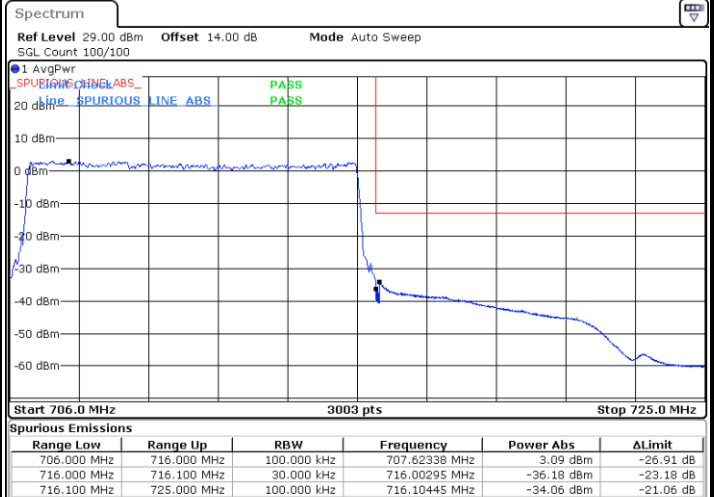
Date: 28.OCT.2022 18:39:55

Lowest Band Edge / Full RB



Date: 28.OCT.2022 18:25:49

Highest Band Edge / Full RB

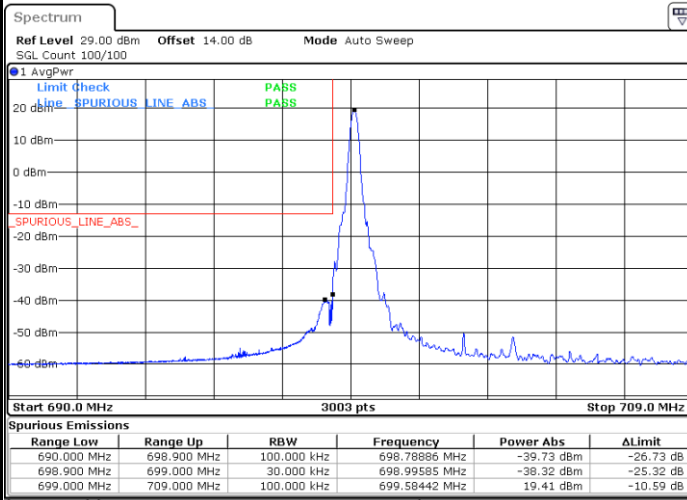


Date: 28.OCT.2022 18:38:37



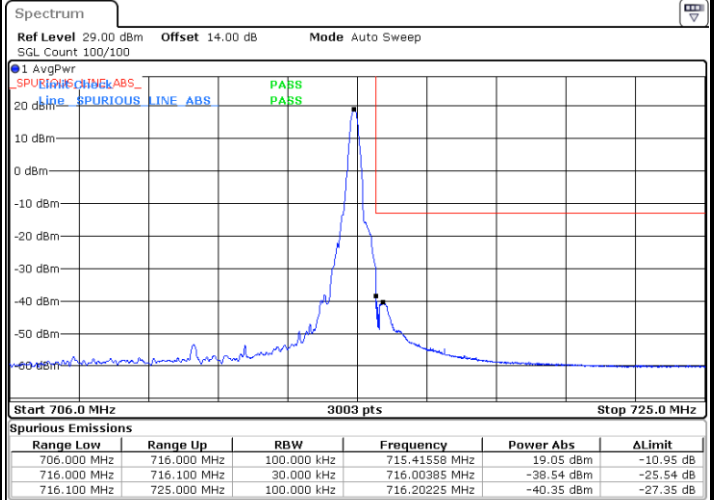
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



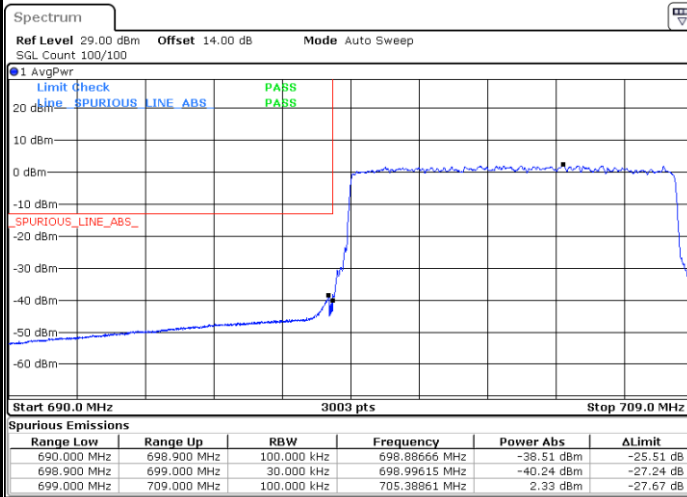
Date: 29.OCT.2022 10:56:53

Highest Band Edge / 1 RB



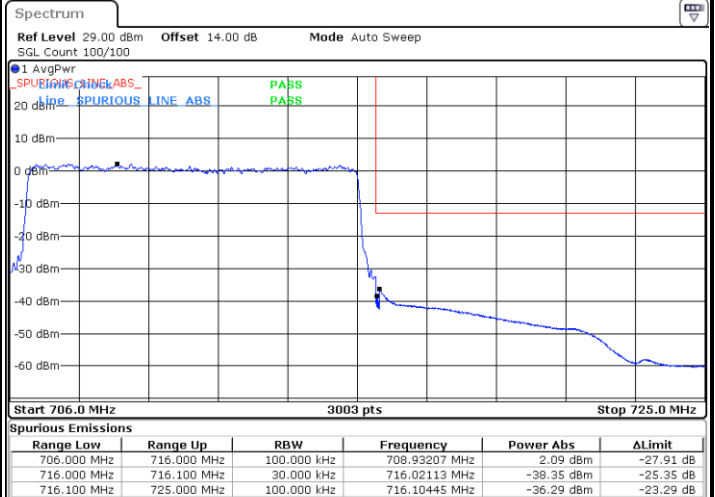
Date: 29.OCT.2022 11:02:59

Lowest Band Edge / Full RB



Date: 29.OCT.2022 10:55:36

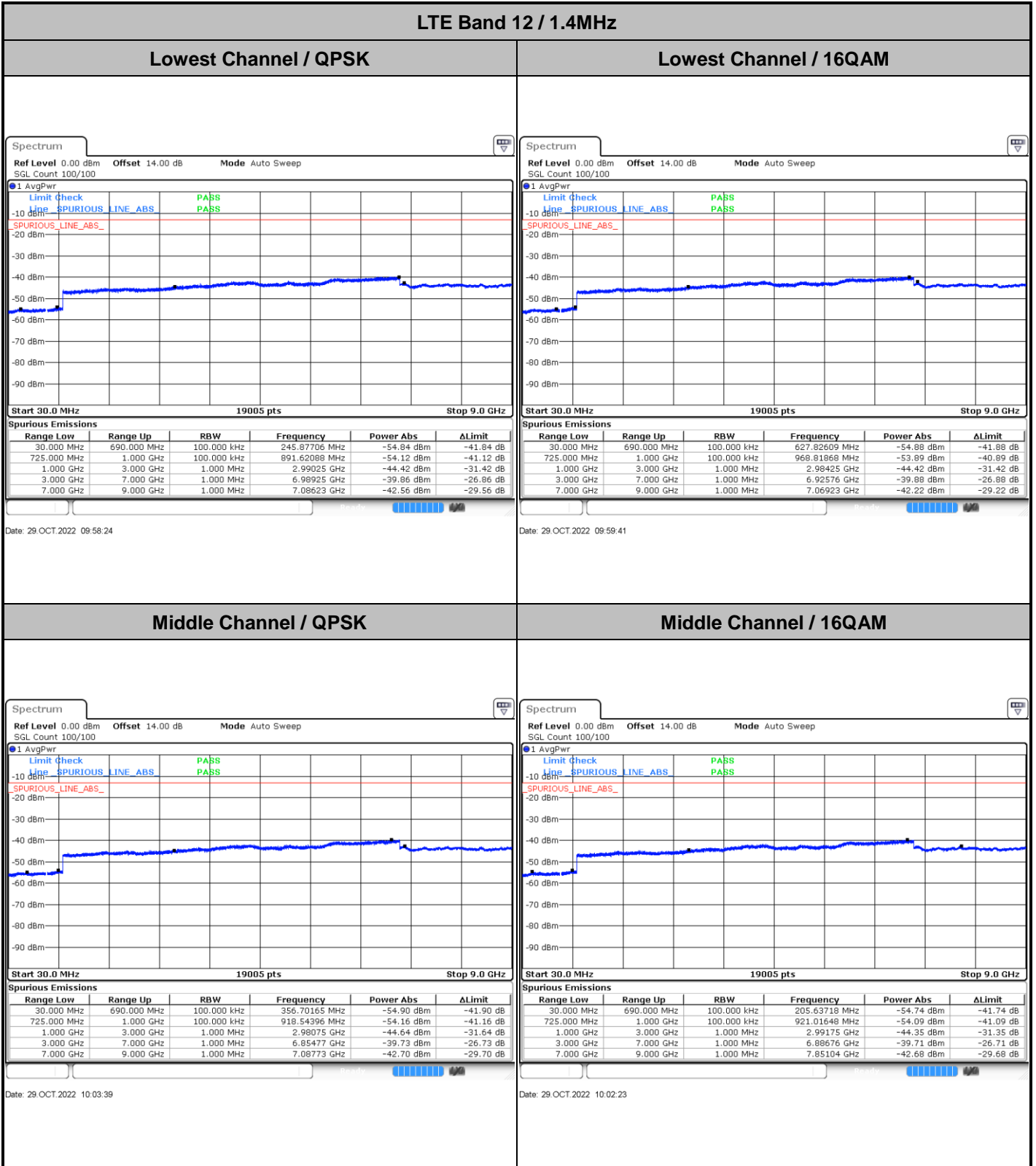
Highest Band Edge / Full RB



Date: 29.OCT.2022 11:01:42



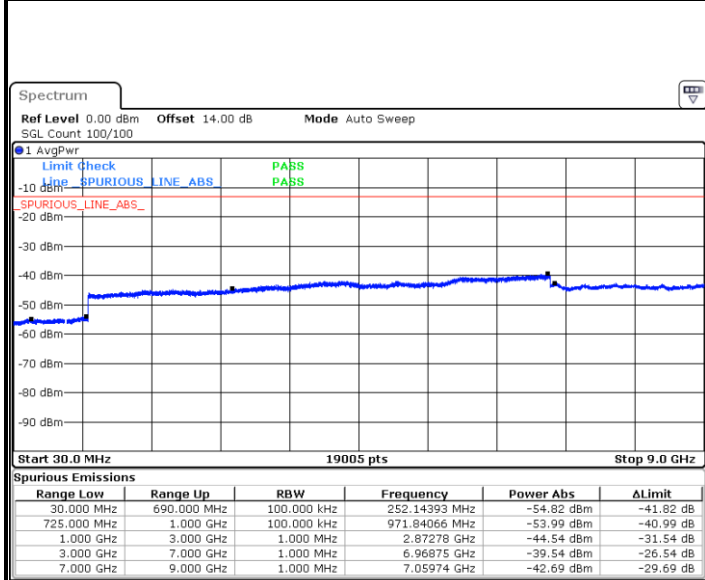
# Conducted Spurious Emission





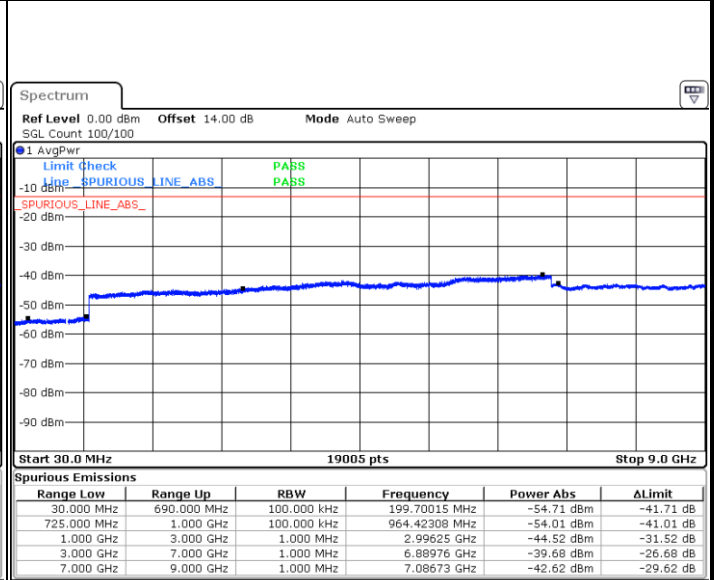
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 29 OCT 2022 10:11:22

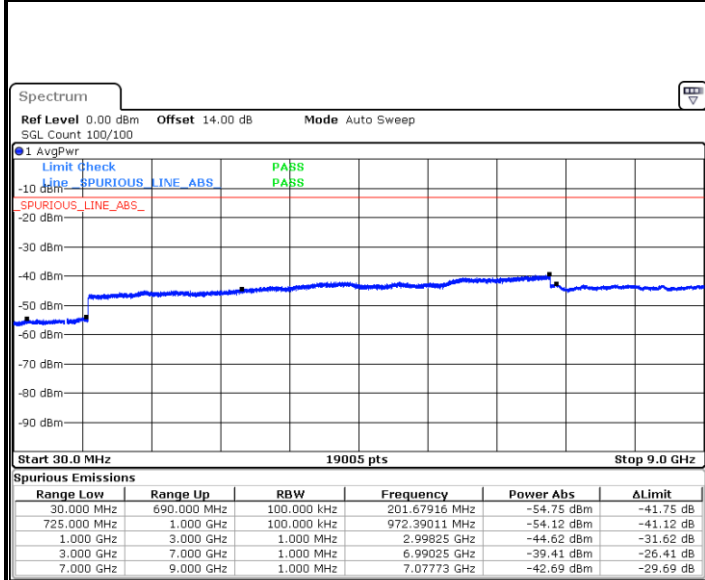
Highest Channel / 16QAM



Date: 29 OCT 2022 10:12:39

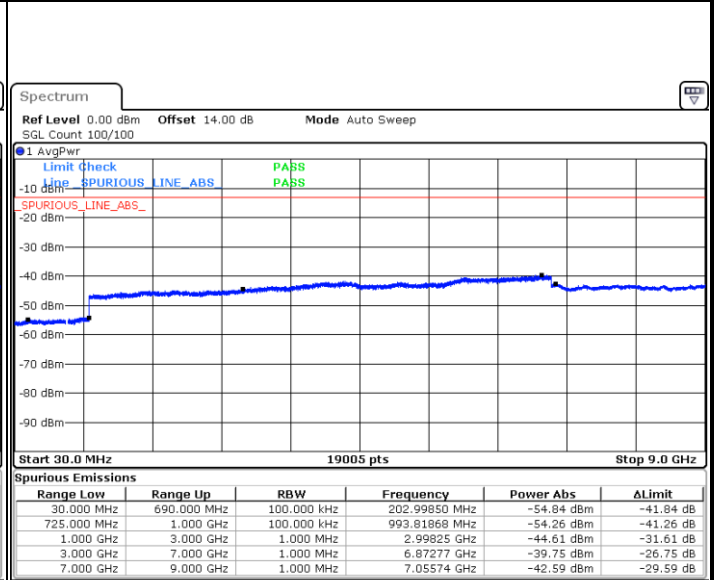
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 28 OCT 2022 17:45:53

Lowest Channel / 16QAM

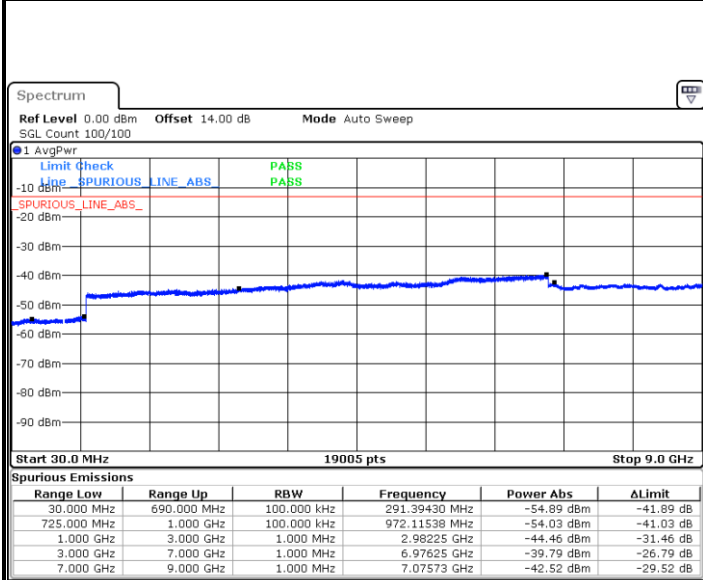


Date: 28 OCT 2022 17:47:10



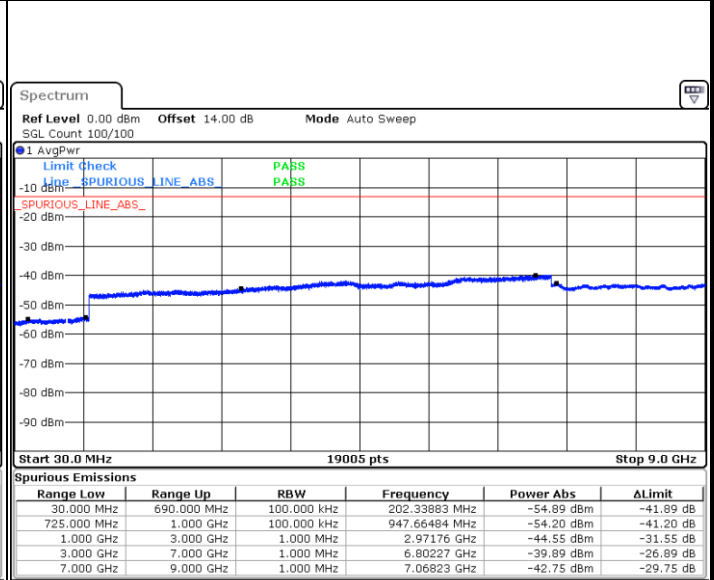
LTE Band 12 / 3MHz

Middle Channel / QPSK



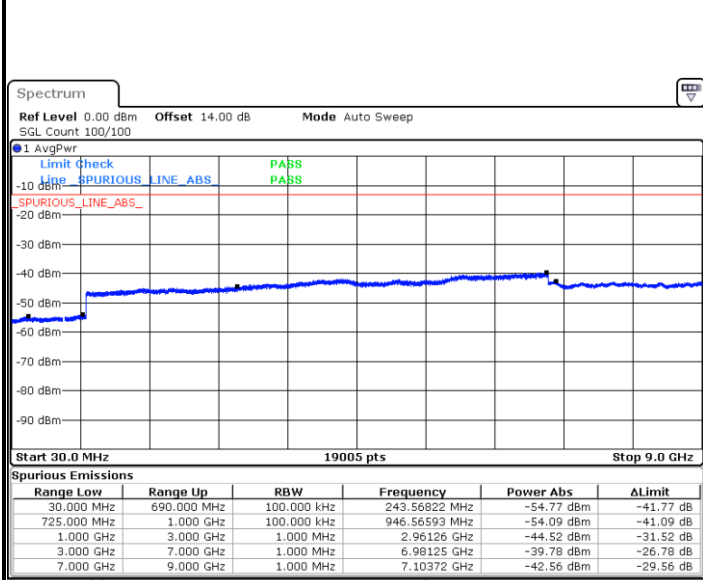
Date: 28.OCT.2022 17:51:08

Middle Channel / 16QAM



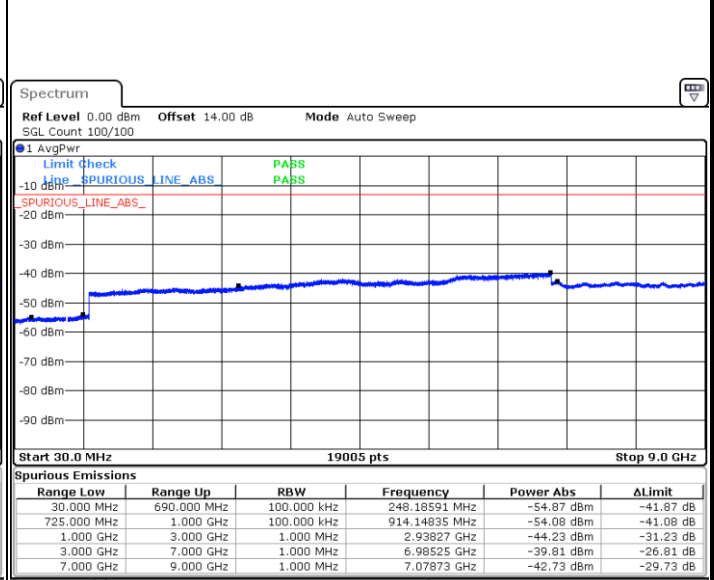
Date: 28.OCT.2022 17:49:52

Highest Channel / QPSK



Date: 28.OCT.2022 17:58:51

Highest Channel / 16QAM



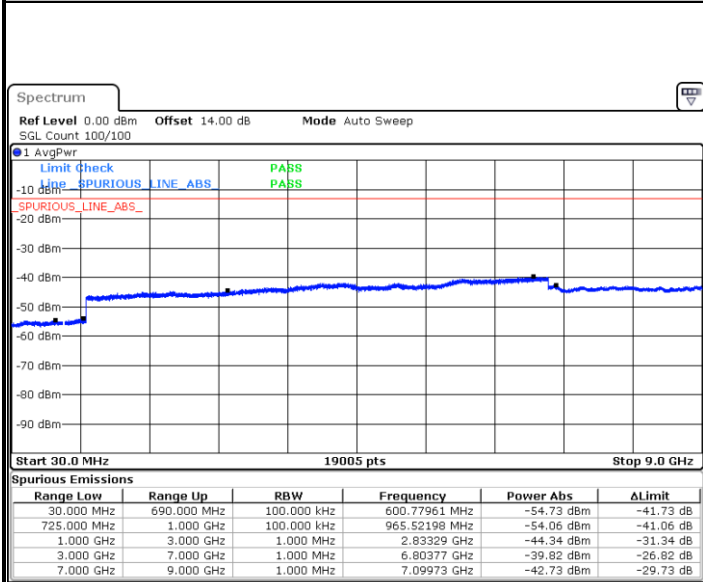
Date: 28.OCT.2022 18:00:08





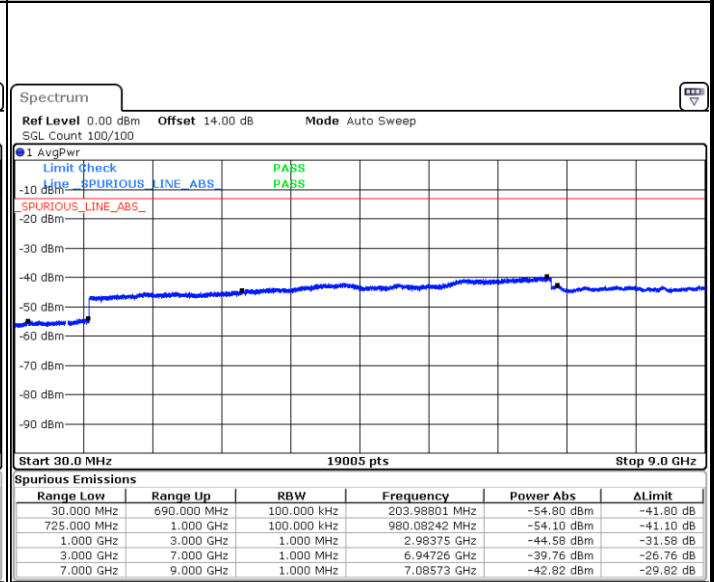
LTE Band 12 / 5MHz

Lowest Channel / QPSK



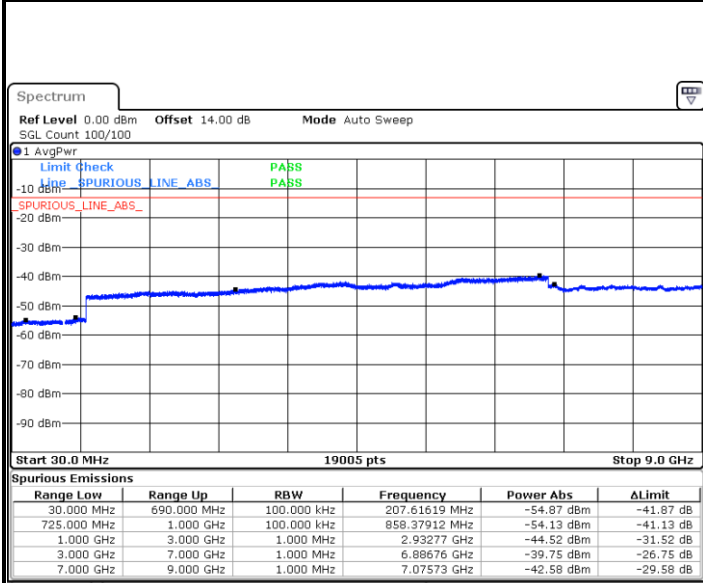
Date: 28.OCT.2022 18:07:42

Lowest Channel / 16QAM



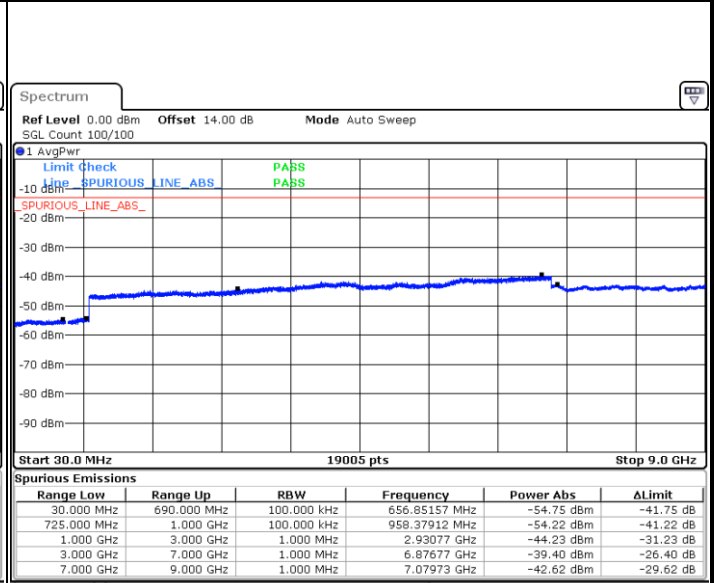
Date: 28.OCT.2022 18:08:59

Middle Channel / QPSK



Date: 28.OCT.2022 18:12:58

Middle Channel / 16QAM

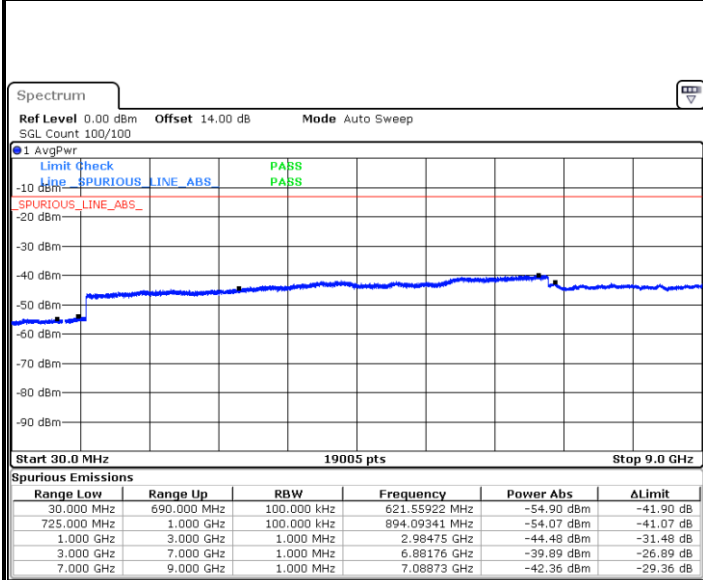


Date: 28.OCT.2022 18:11:41



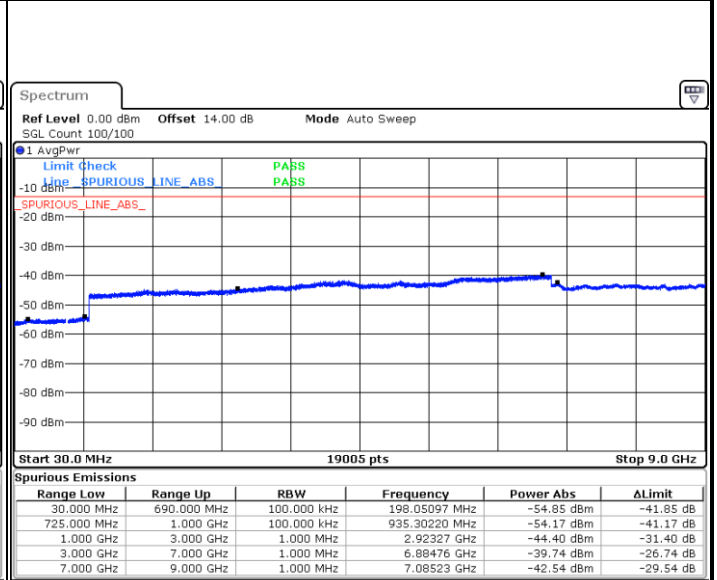
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 28.OCT.2022 18:21:58

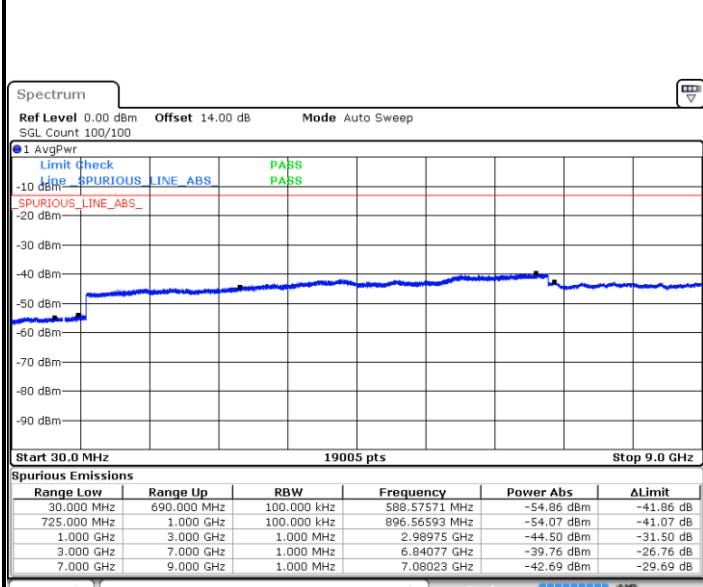
Highest Channel / 16QAM



Date: 28.OCT.2022 18:20:41

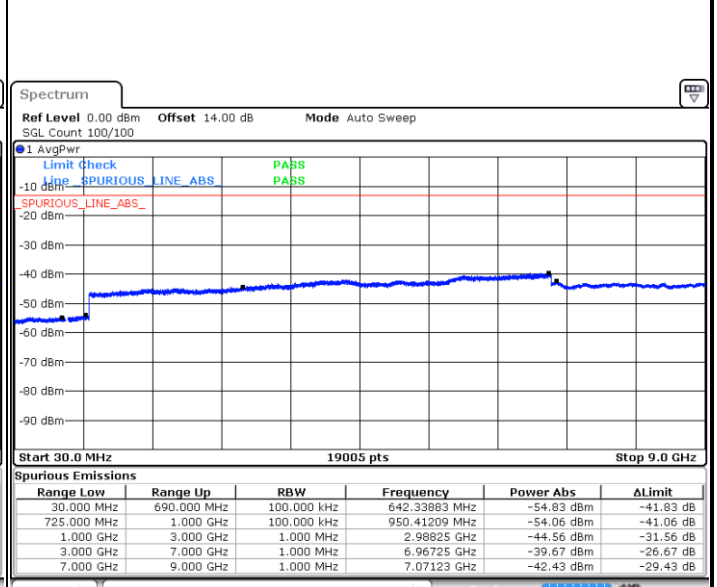
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 28.OCT.2022 18:29:31

Lowest Channel / 16QAM

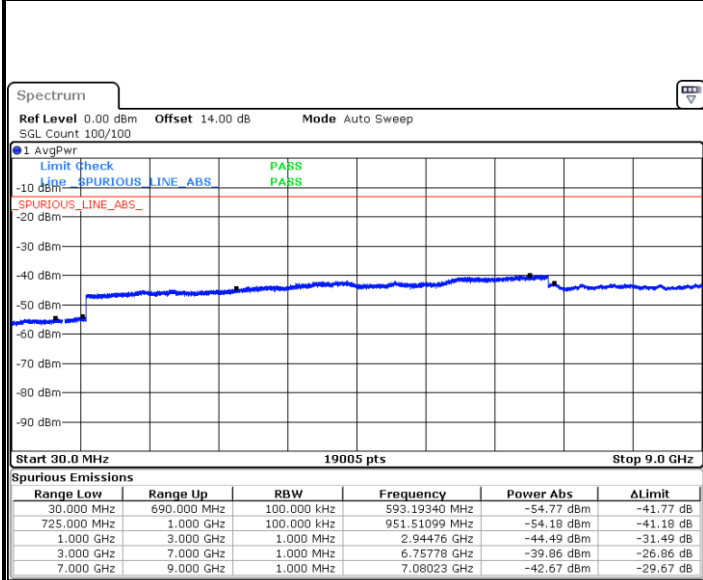


Date: 28.OCT.2022 18:30:48



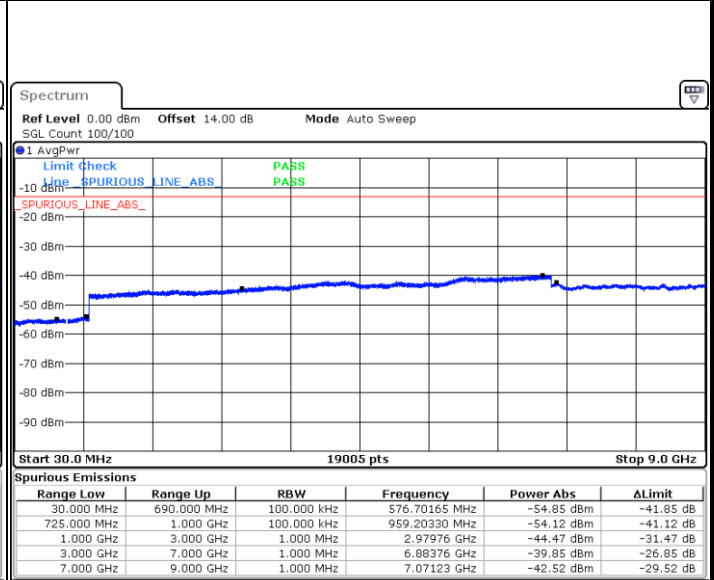
LTE Band 12 / 10MHz

Middle Channel / QPSK



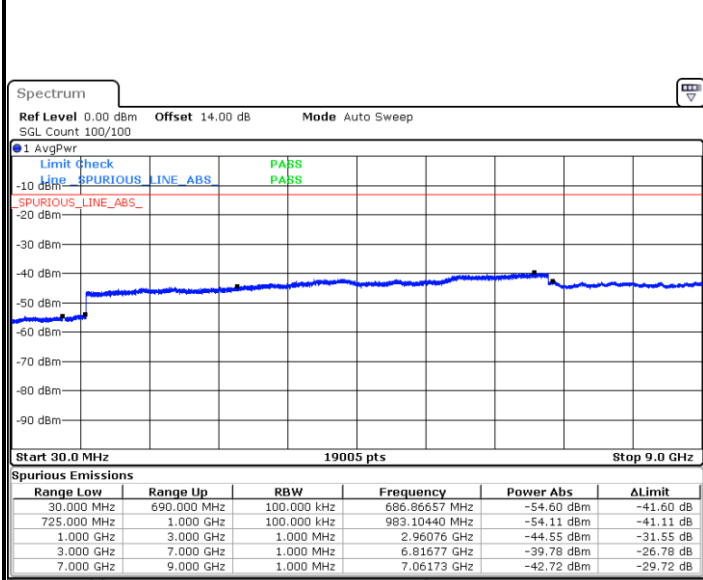
Date: 28.OCT.2022 18:34:47

Middle Channel / 16QAM



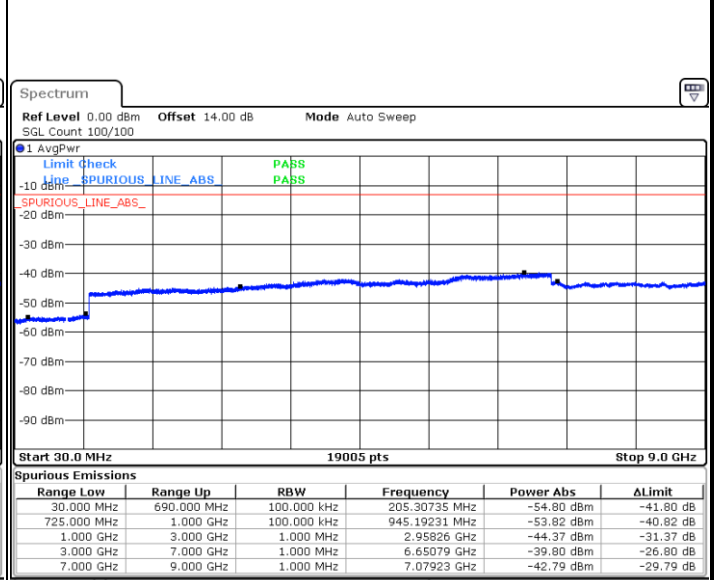
Date: 28.OCT.2022 18:33:30

Highest Channel / QPSK



Date: 28.OCT.2022 18:42:29

Highest Channel / 16QAM



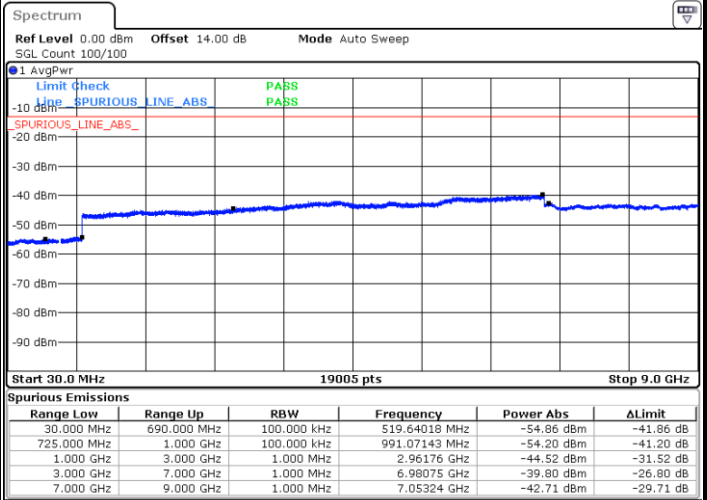
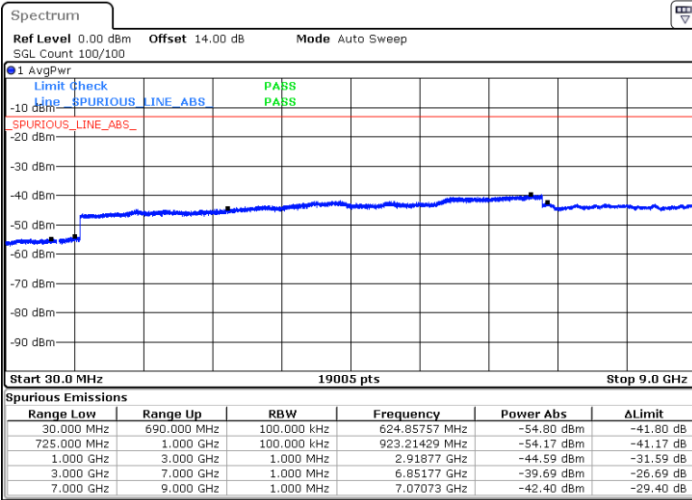
Date: 28.OCT.2022 18:43:46



LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

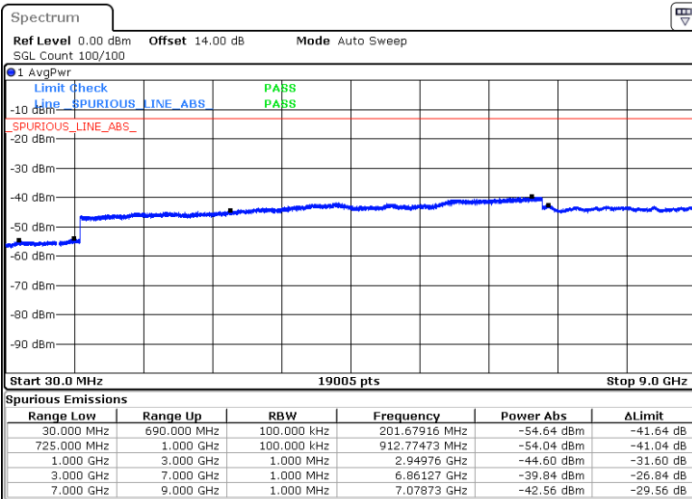
Middle Channel / 64QAM



Date: 29.OCT.2022 11:09:06

Date: 29.OCT.2022 11:11:01

Highest Channel / 64QAM



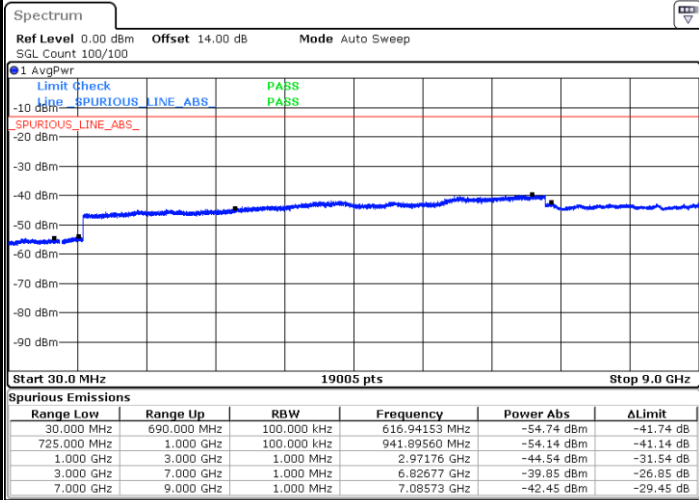
Date: 29.OCT.2022 11:15:22



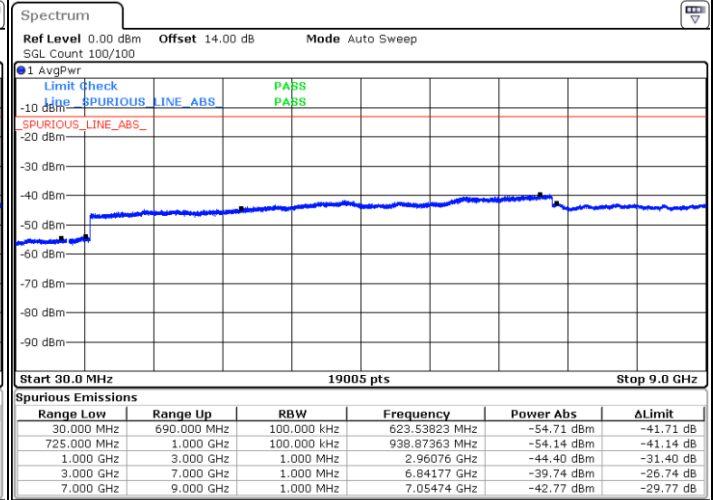
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

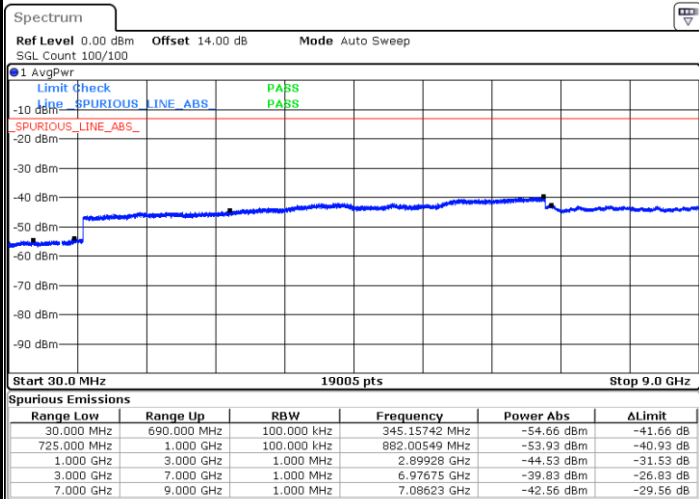


Date: 29.OCT.2022 10:37:04



Date: 29.OCT.2022 10:38:59

Highest Channel / 64QAM



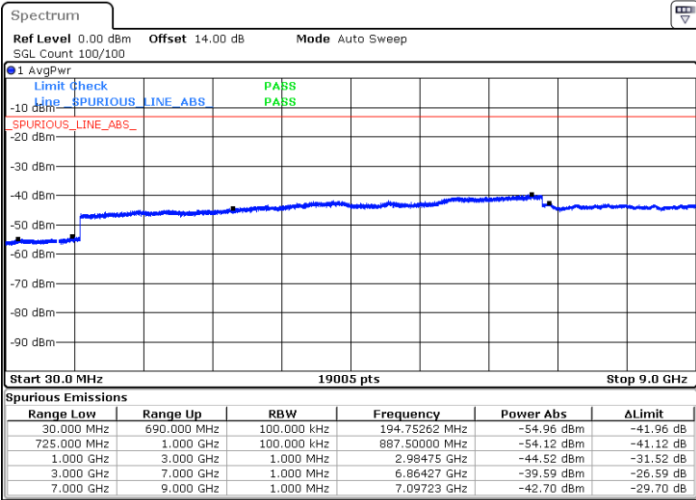
Date: 29.OCT.2022 10:43:20



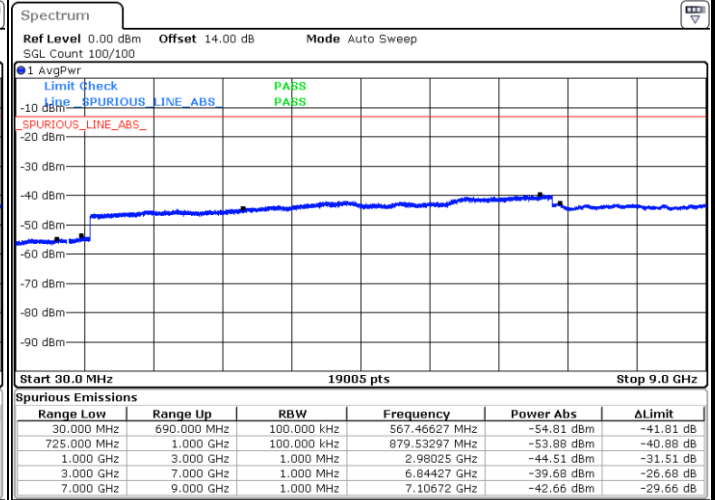
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

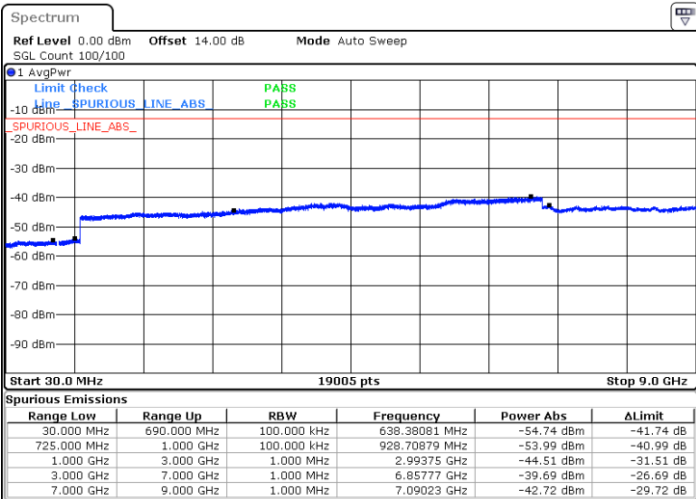


Date: 29.OCT.2022 10:47:33



Date: 29.OCT.2022 10:49:28

Highest Channel / 64QAM

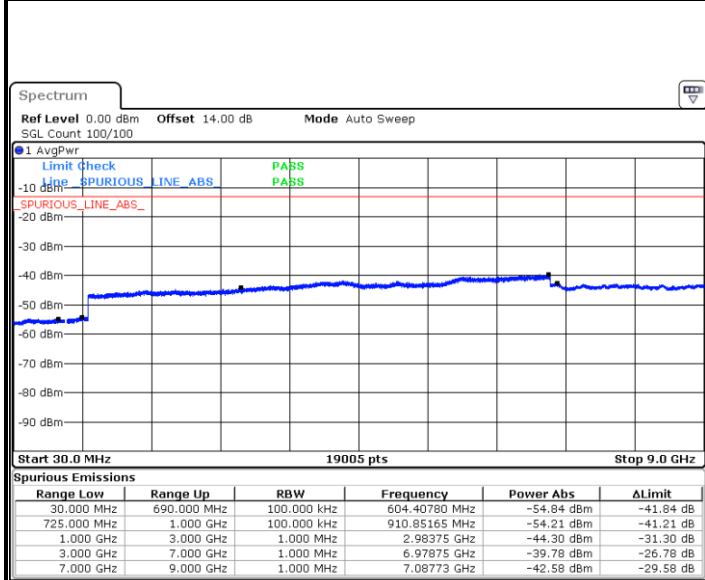


Date: 29.OCT.2022 10:53:49



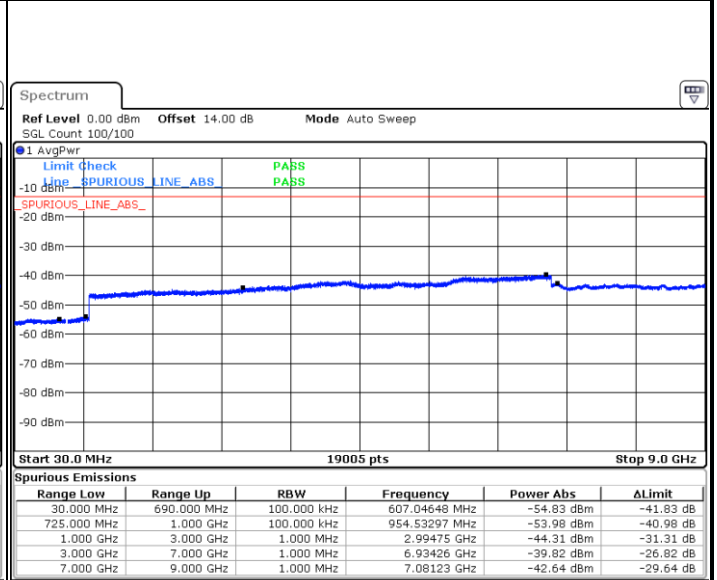
**LTE Band 12 / 10MHz**

**Lowest Channel / 64QAM**



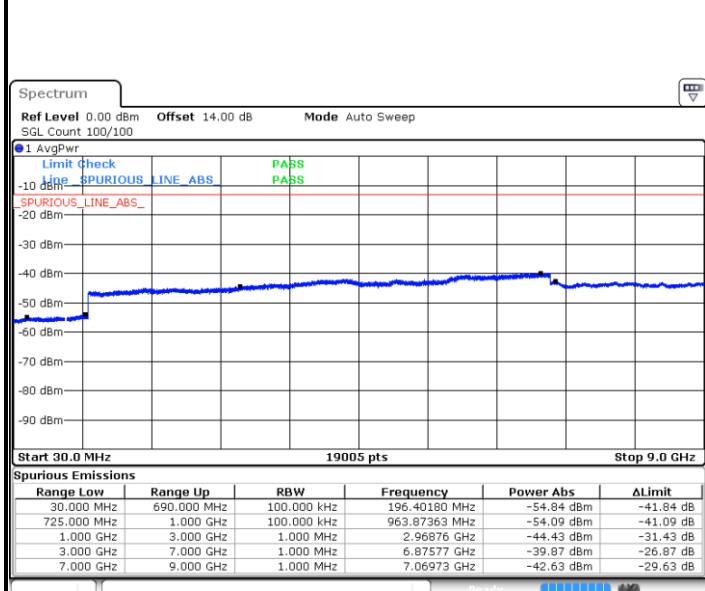
Date: 29.OCT.2022 10:58:01

**Middle Channel / 64QAM**



Date: 29.OCT.2022 10:59:56

**Highest Channel / 64QAM**



Date: 29.OCT.2022 11:04:17



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    | 0.0021                              | PASS    |
| 40               | Normal Voltage    | 0.0003                              |         |
| 30               | Normal Voltage    | 0.0188                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0177                              |         |
| 0                | Normal Voltage    | 0.0016                              |         |
| -10              | Normal Voltage    | 0.0172                              |         |
| -20              | Normal Voltage    | 0.0013                              |         |
| -30              | Normal Voltage    | 0.0007                              |         |
| 20               | Maximum Voltage   | 0.0010                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0010                              |         |

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





# LTE Band 13

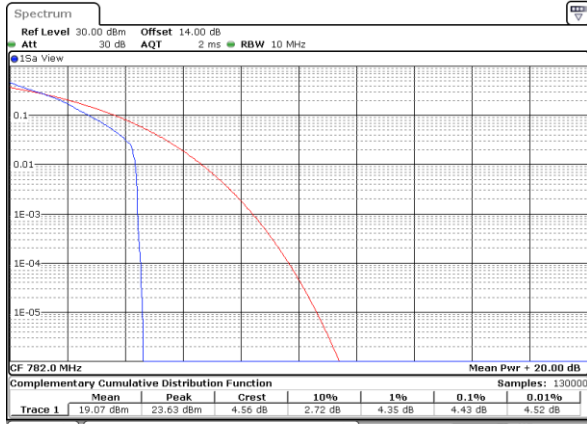
## Peak-to-Average Ratio

| Mode       | LTE Band 13 / 10MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | -                   | -       | -     | -       | PASS        |
| Middle CH  | 4.43                | 5.48    | 5.62  | 6.32    |             |
| Highest CH | -                   | -       | -     | -       |             |
| Mode       | LTE Band 13 / 10MHz |         |       |         |             |
| Mod.       | 64QAM               |         |       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB |       |         | Result      |
| Lowest CH  | -                   | -       | -     | -       | PASS        |
| Middle CH  | 6.20                | 6.81    | -     | -       |             |
| Highest CH | -                   | -       | -     | -       |             |



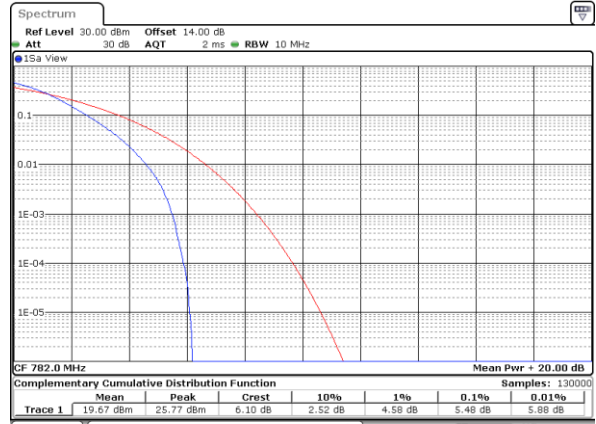
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 31.OCT.2022 08:49:36

Middle Channel / Full RB



Date: 31.OCT.2022 08:50:02

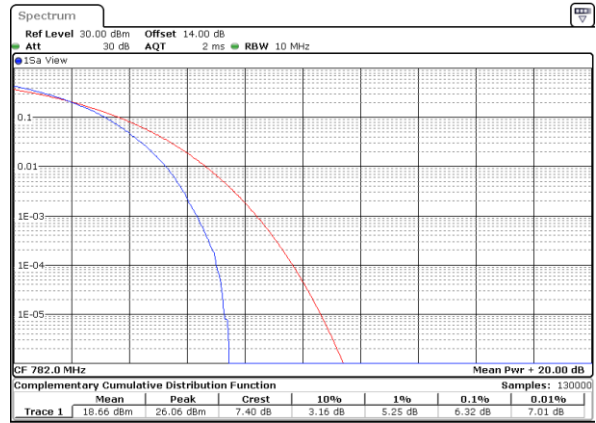
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 31.OCT.2022 08:48:45

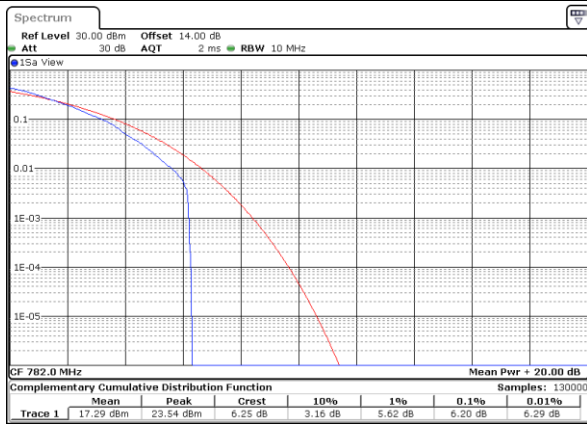
Middle Channel / Full RB



Date: 31.OCT.2022 08:49:11

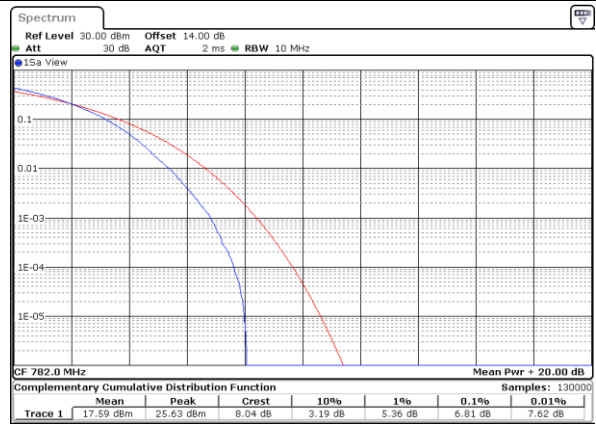
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 31.OCT.2022 08:47:55

Middle Channel / Full RB



Date: 31.OCT.2022 08:48:21



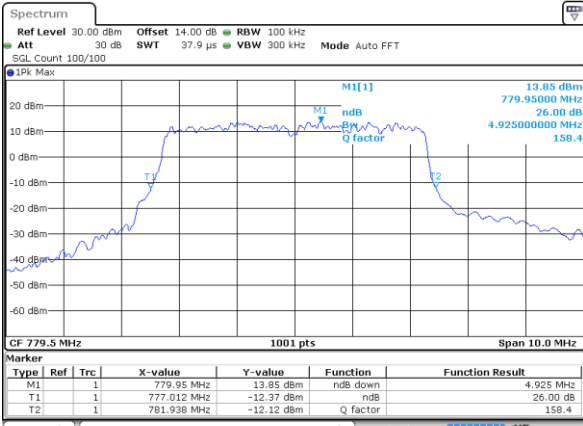
**26dB Bandwidth**

| 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 |
| Lowest CH  | -                          | -     | -     | -     | 4.93  | 5.06  | -     | -     | -     | -     | -     | -     |
| Middle CH  | -                          | -     | -     | -     | 5.14  | 5.01  | 9.77  | 9.99  | -     | -     | -     | -     |
| Highest CH | -                          | -     | -     | -     | 5.04  | 4.97  | -     | -     | -     | -     | -     | -     |
| Mode       | LTE Band 13 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                      |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                          | -     | -     | -     | 5.08  | -     | -     | -     | -     | -     | -     | -     |
| Middle CH  | -                          | -     | -     | -     | 5.02  | -     | 9.85  | -     | -     | -     | -     | -     |
| Highest CH | -                          | -     | -     | -     | 5.01  | -     | -     | -     | -     | -     | -     | -     |



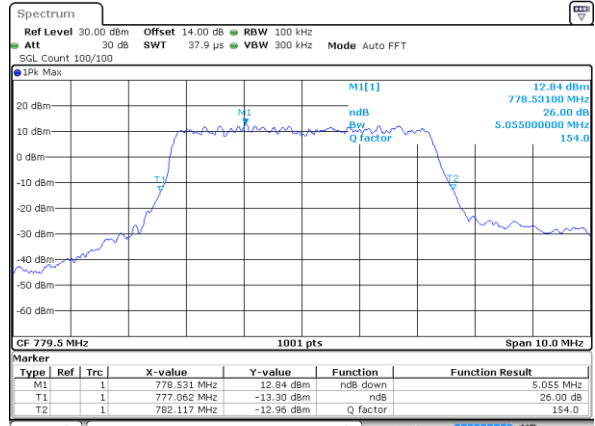
LTE Band 13

Lowest Channel / 5MHz / QPSK



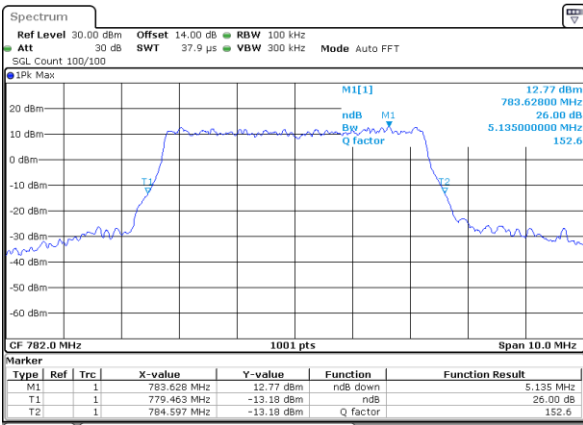
Date: 31.OCT.2022 07:50:16

Lowest Channel / 5MHz / 16QAM



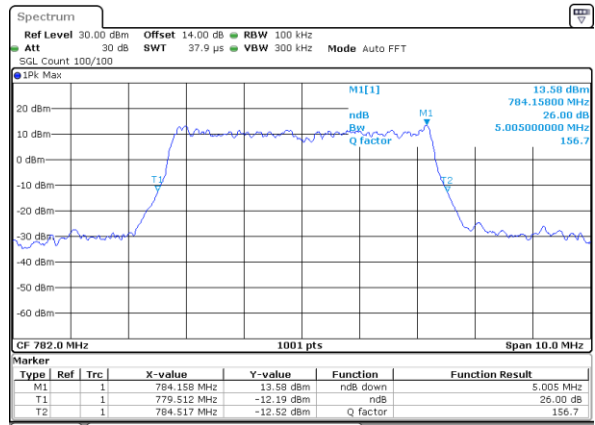
Date: 31.OCT.2022 07:49:52

Middle Channel / 5MHz / QPSK



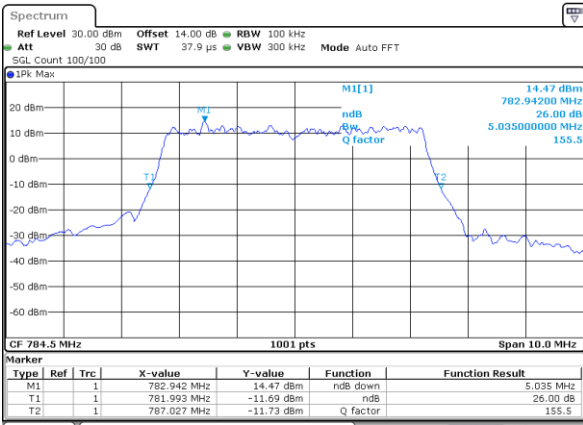
Date: 31.OCT.2022 08:02:12

Middle Channel / 5MHz / 16QAM



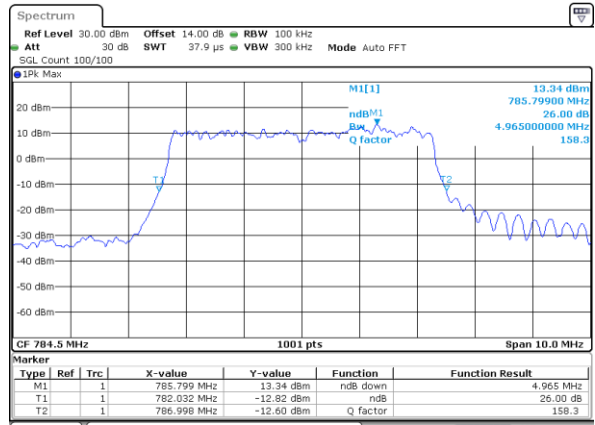
Date: 31.OCT.2022 08:02:35

Highest Channel / 5MHz / QPSK



Date: 31.OCT.2022 08:04:39

Highest Channel / 5MHz / 16QAM

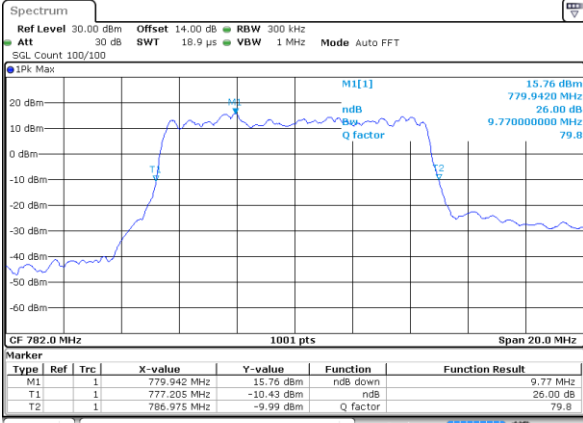


Date: 31.OCT.2022 08:04:15



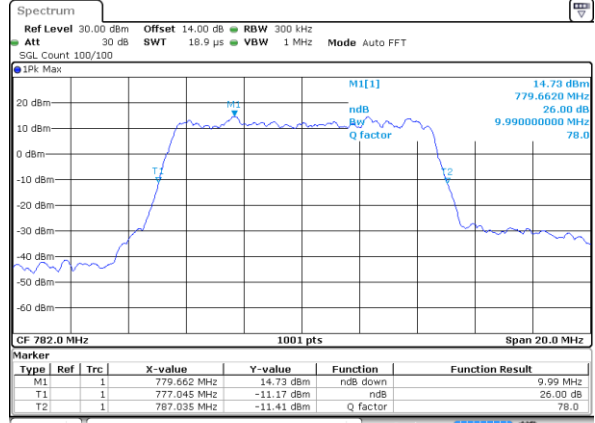
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 31.OCT.2022 08:27:30

Middle Channel / 10MHz / 16QAM



Date: 31.OCT.2022 08:27:06