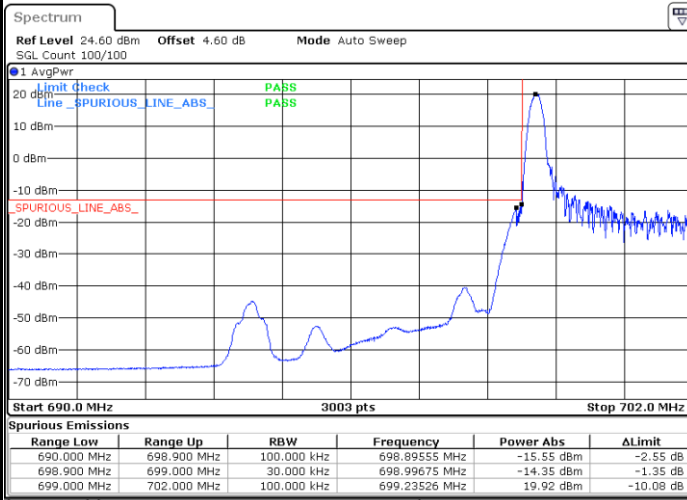




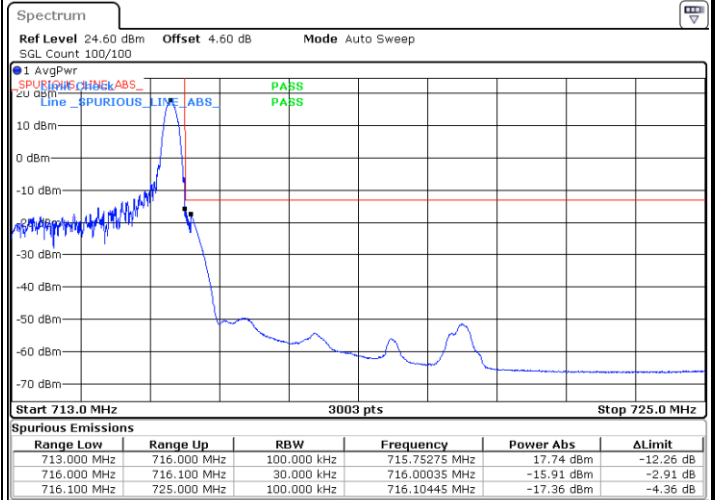
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



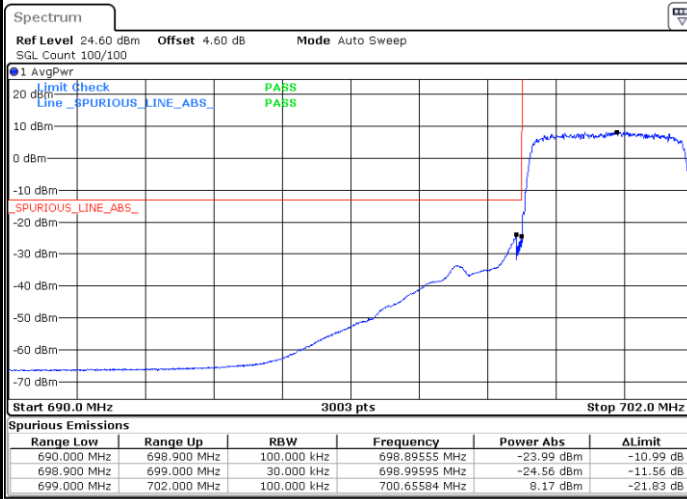
Date: 17.JAN.2023 22:19:44

Highest Band Edge / 1 RB



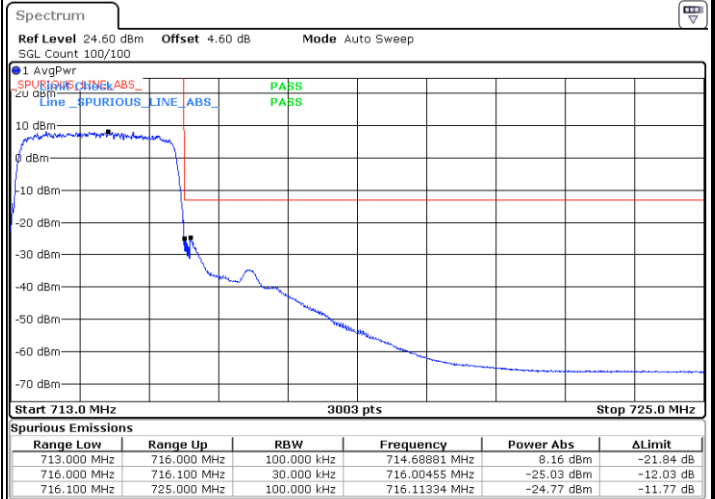
Date: 17.JAN.2023 22:31:32

Lowest Band Edge / Full RB



Date: 17.JAN.2023 22:25:43

Highest Band Edge / Full RB

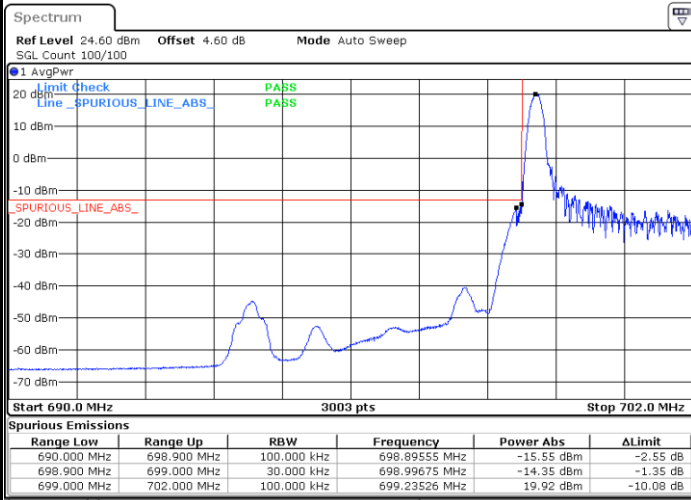


Date: 17.JAN.2023 22:36:32



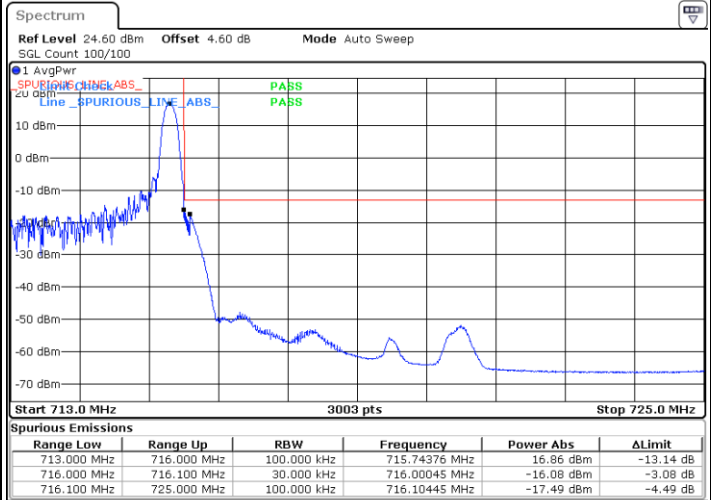
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



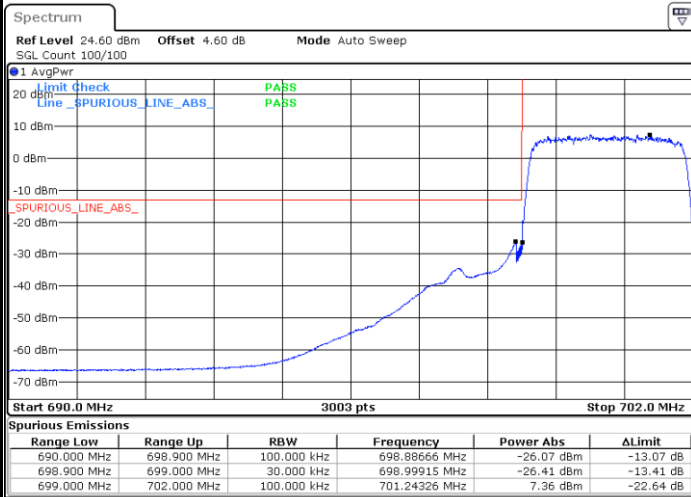
Date: 17.JAN.2023 22:19:44

Highest Band Edge / 1 RB



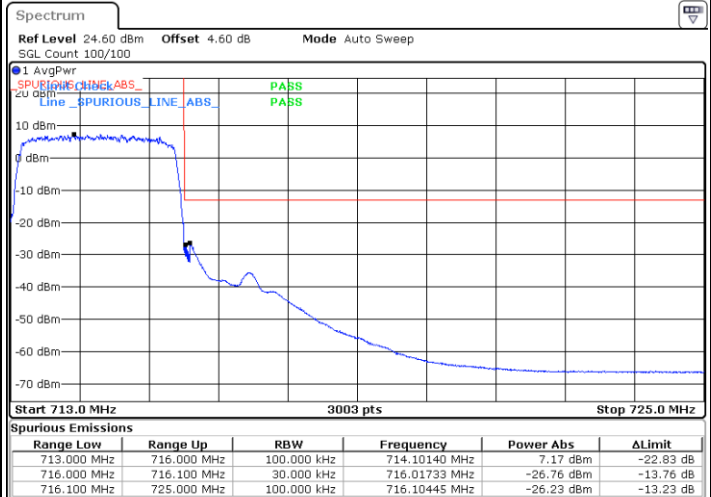
Date: 17.JAN.2023 22:33:12

Lowest Band Edge / Full RB



Date: 17.JAN.2023 22:24:03

Highest Band Edge / Full RB

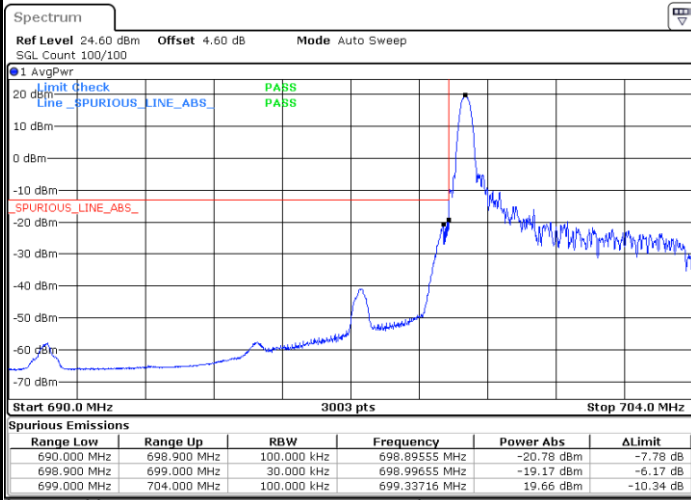


Date: 17.JAN.2023 22:34:52



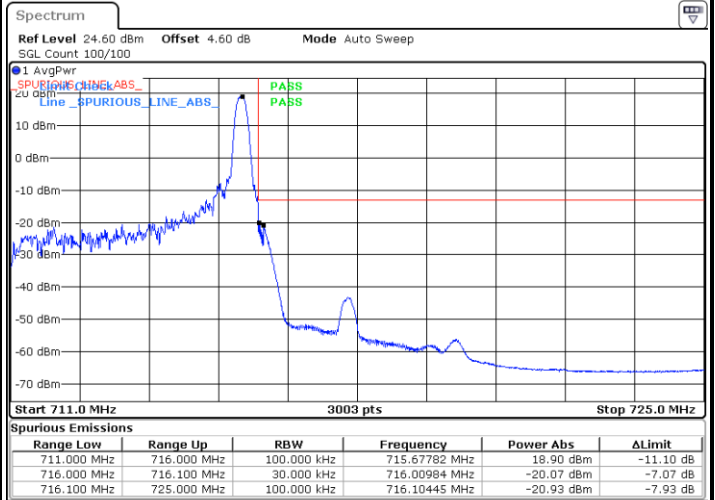
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



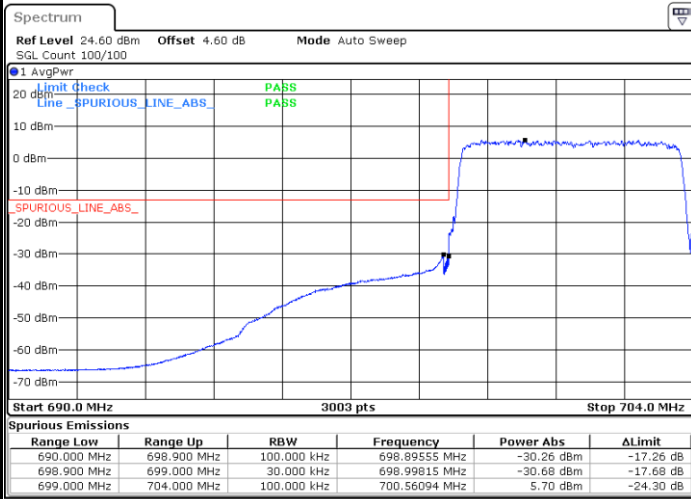
Date: 17.JAN.2023 22:39:34

Highest Band Edge / 1 RB



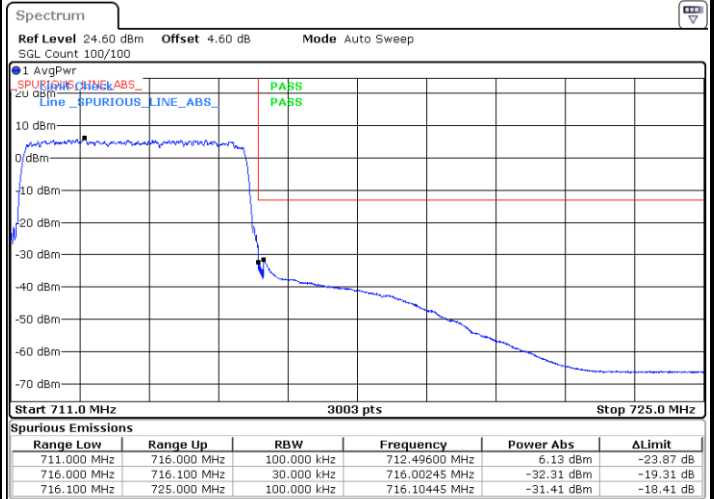
Date: 17.JAN.2023 22:50:23

Lowest Band Edge / Full RB



Date: 17.JAN.2023 22:44:34

Highest Band Edge / Full RB

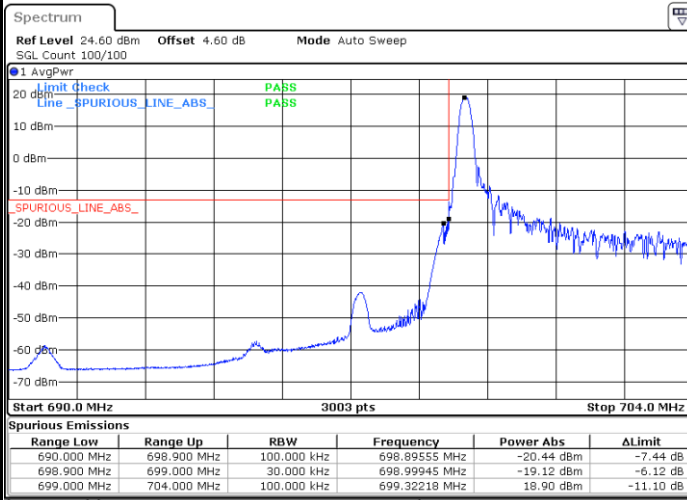


Date: 17.JAN.2023 22:55:23



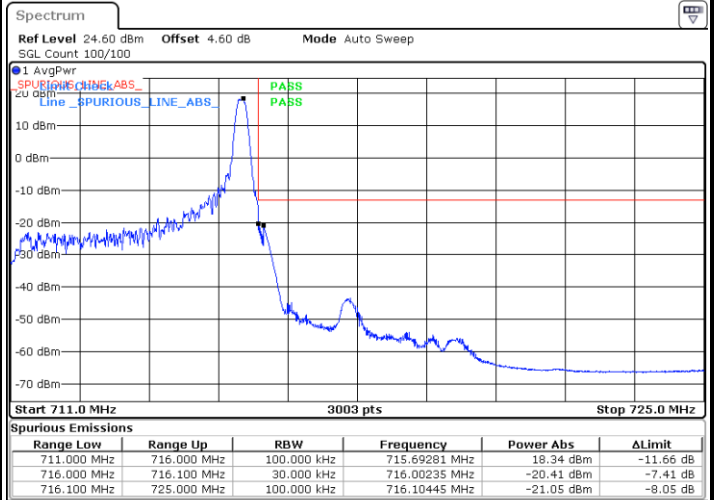
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



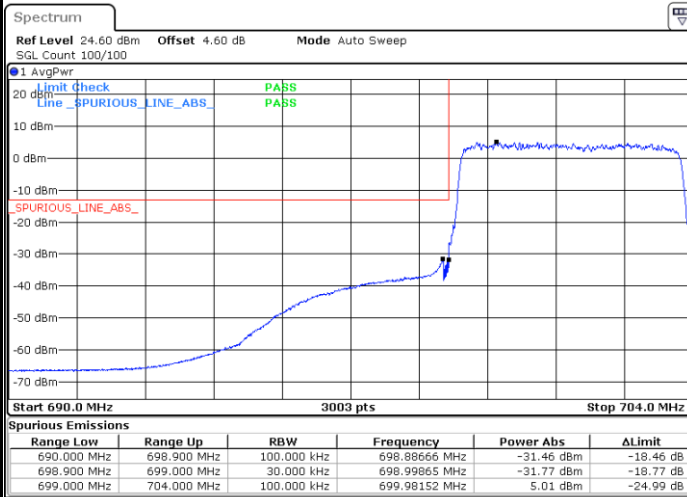
Date: 17.JAN.2023 22:41:13

Highest Band Edge / 1 RB



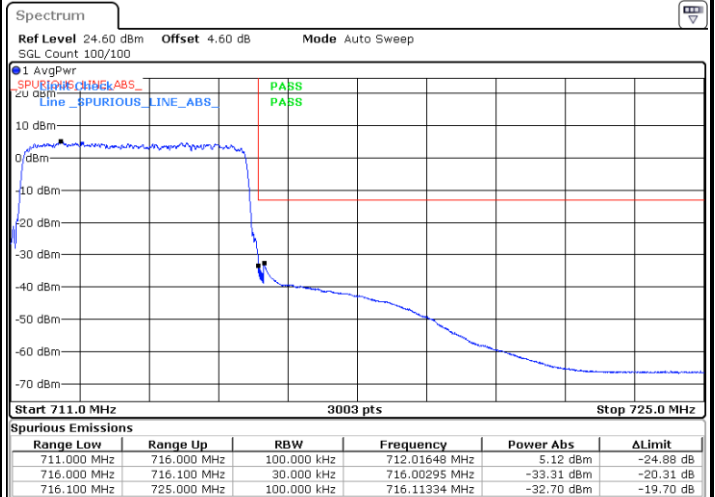
Date: 17.JAN.2023 22:52:03

Lowest Band Edge / Full RB



Date: 17.JAN.2023 22:42:54

Highest Band Edge / Full RB



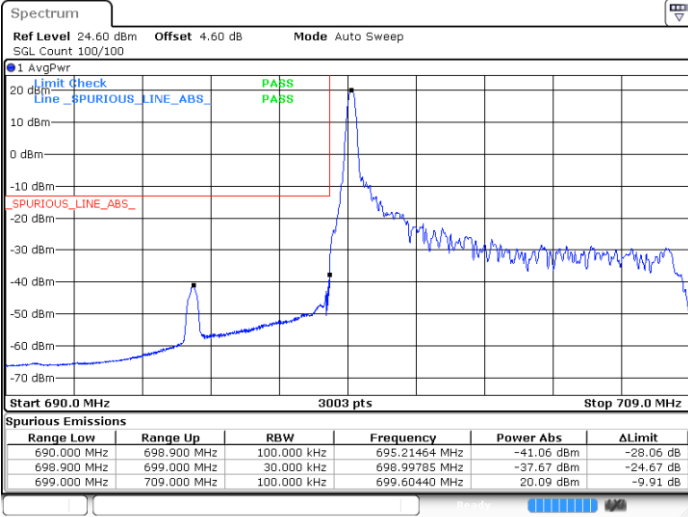
Date: 17.JAN.2023 22:53:43



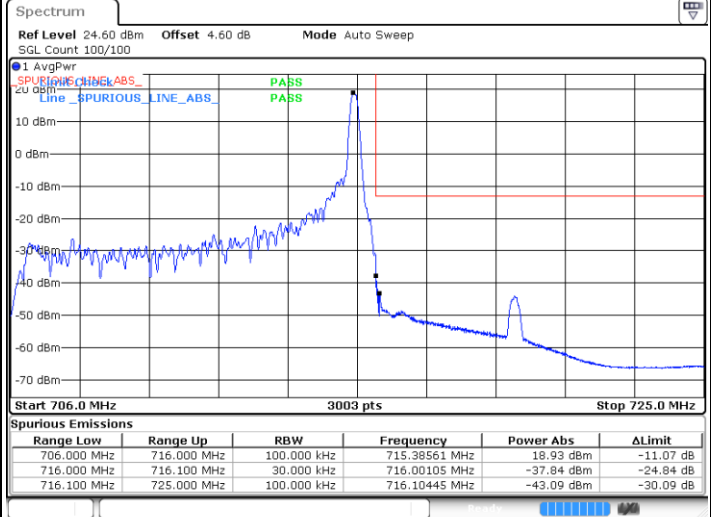
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



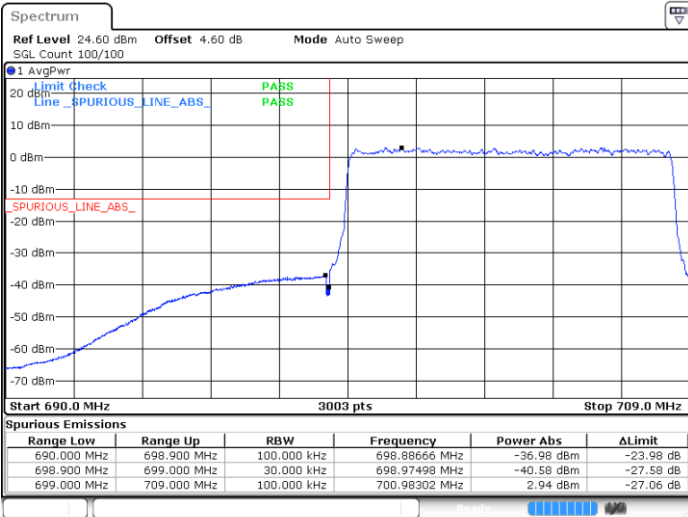
Date: 17 JAN 2023 22:58:25



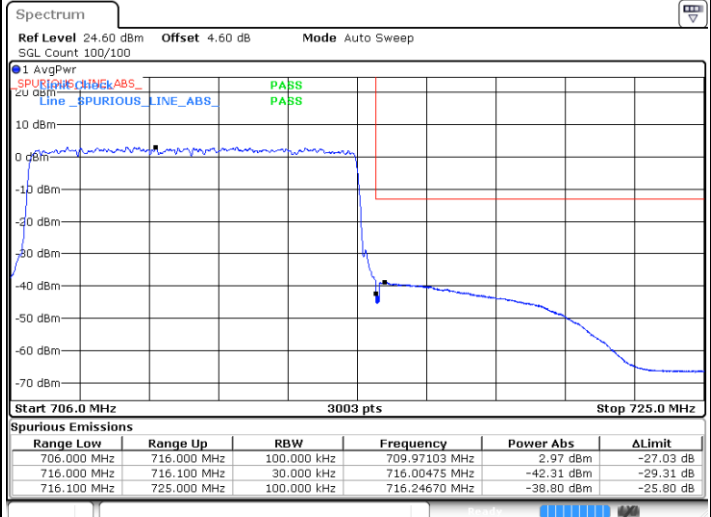
Date: 17 JAN 2023 23:06:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17 JAN 2023 23:01:45

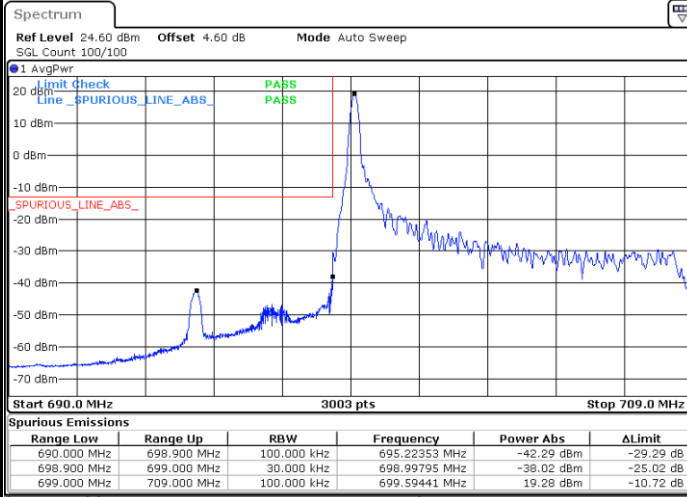


Date: 17 JAN 2023 23:09:27



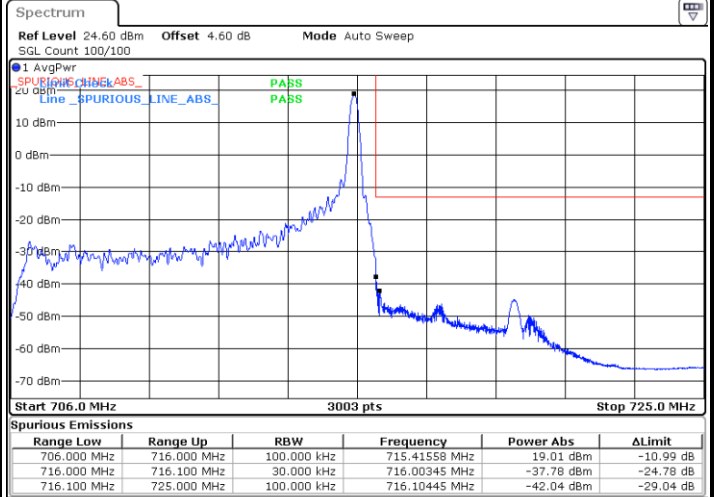
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



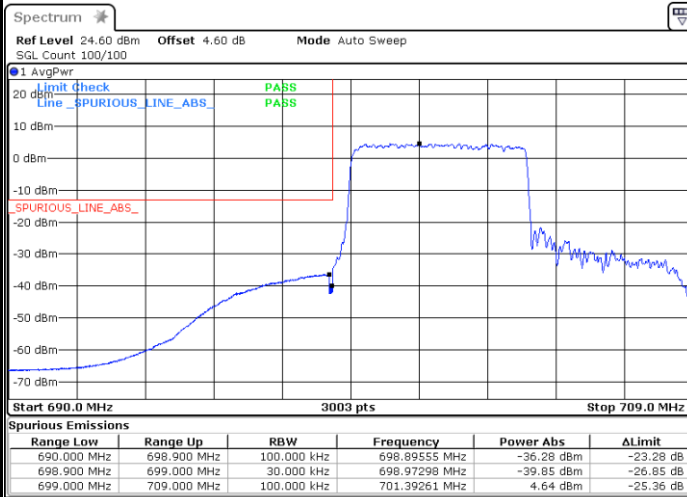
Date: 17.JAN.2023 23:22:07

Highest Band Edge / 1 RB



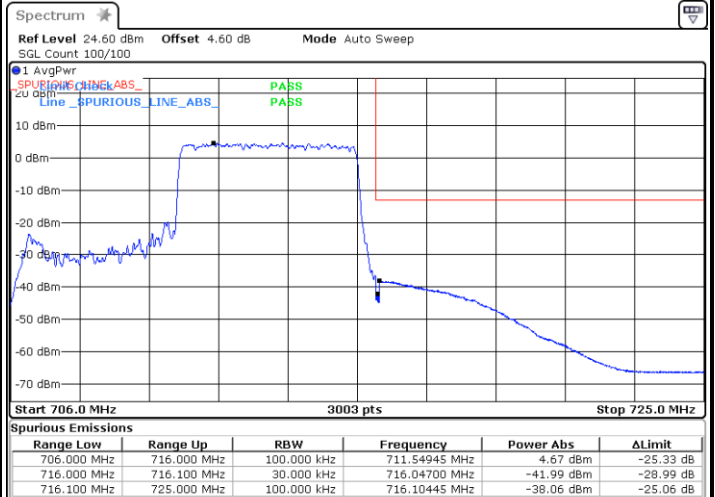
Date: 17.JAN.2023 23:07:47

Lowest Band Edge / Full RB



Date: 17.JAN.2023 23:23:18

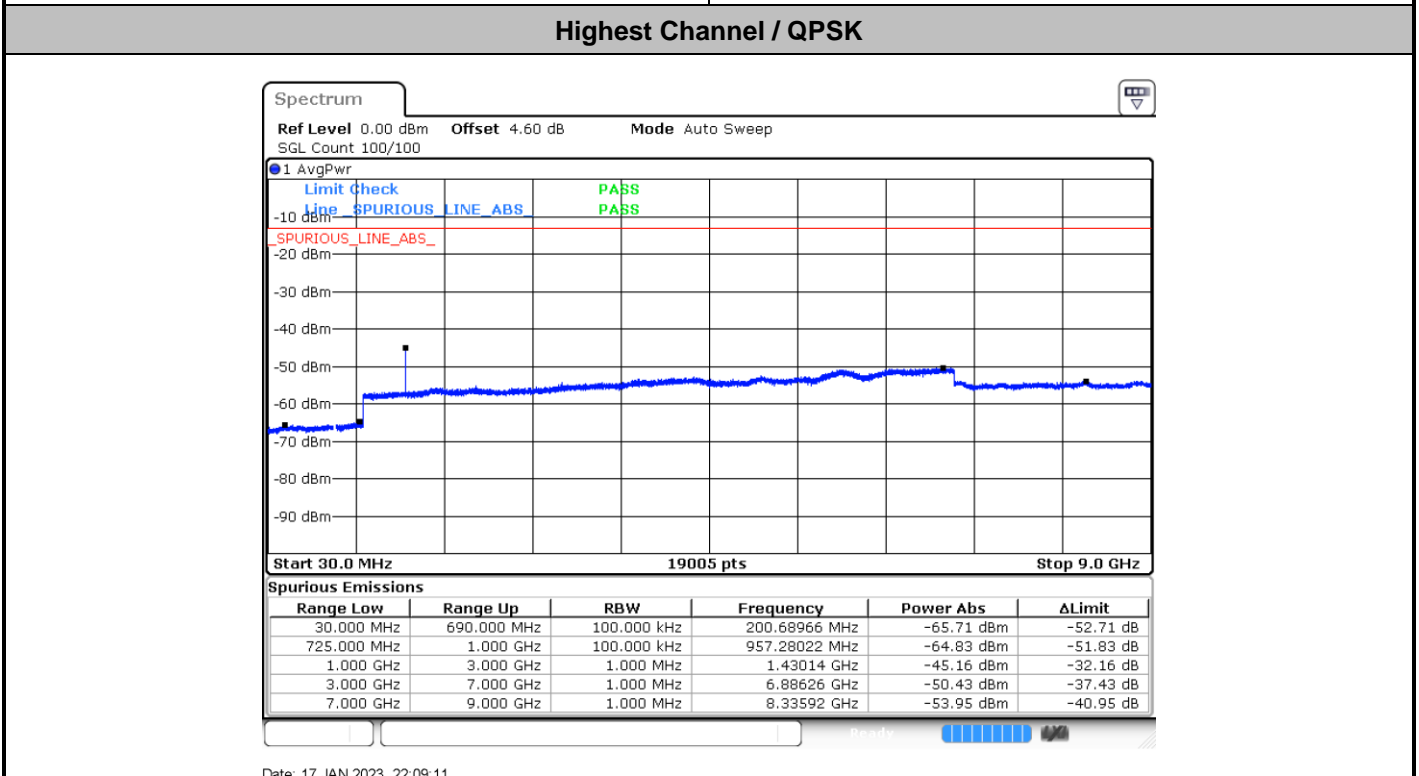
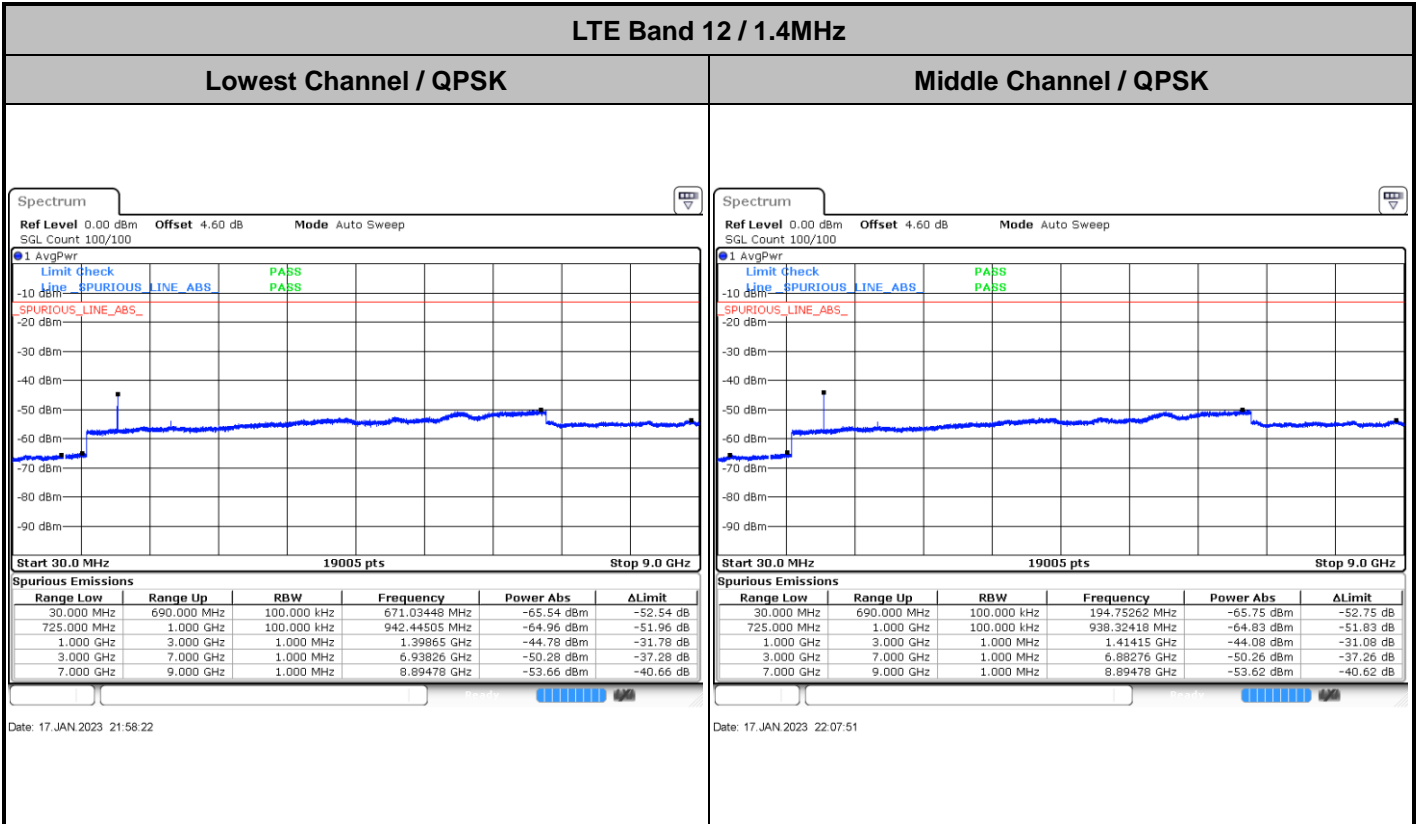
Highest Band Edge / Full RB



Date: 17.JAN.2023 23:24:35



Conducted Spurious Emission

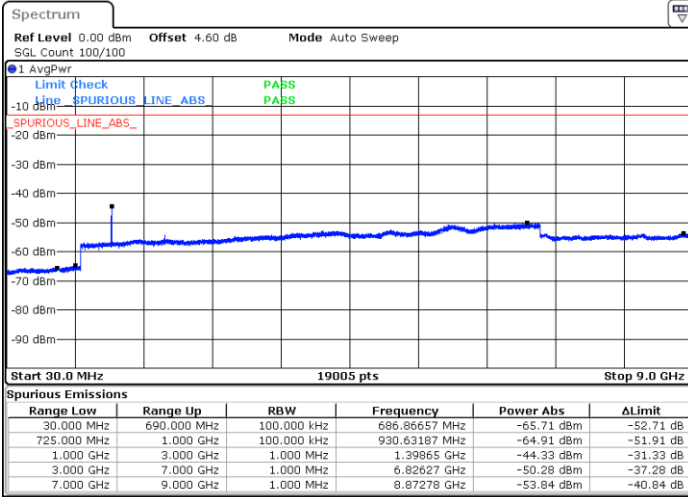




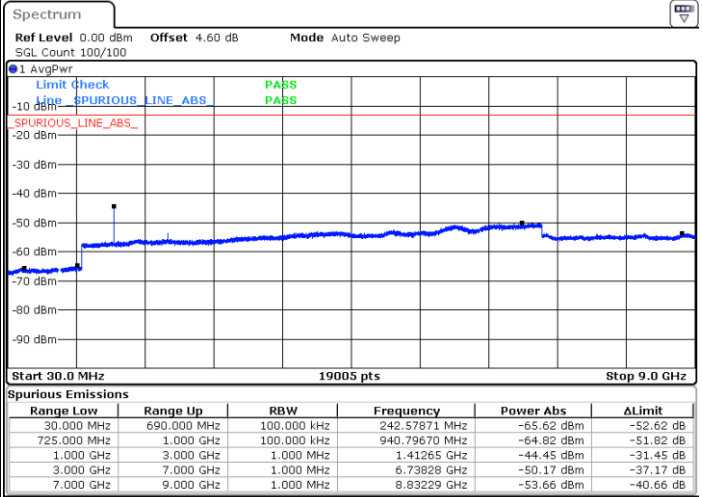
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

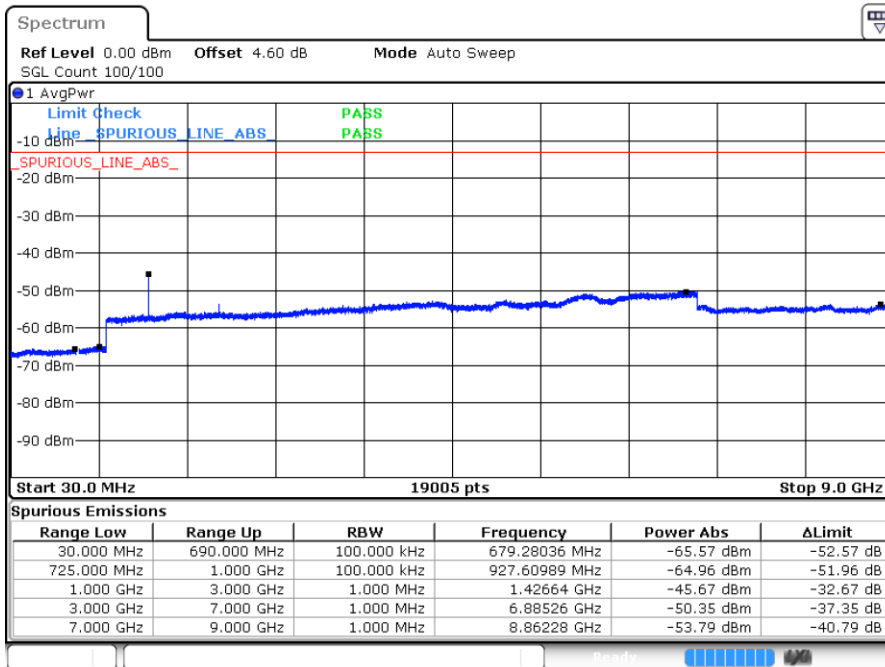


Date: 17 JAN 2023 22:17:14



Date: 17 JAN 2023 22:28:31

Highest Channel / QPSK



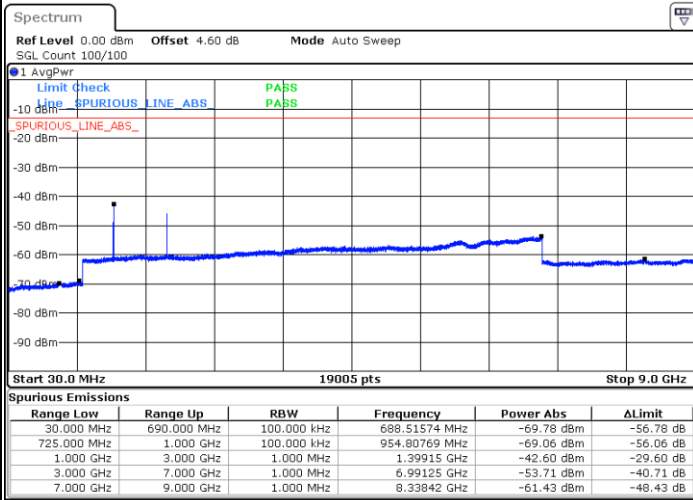
Date: 17 JAN 2023 22:29:51



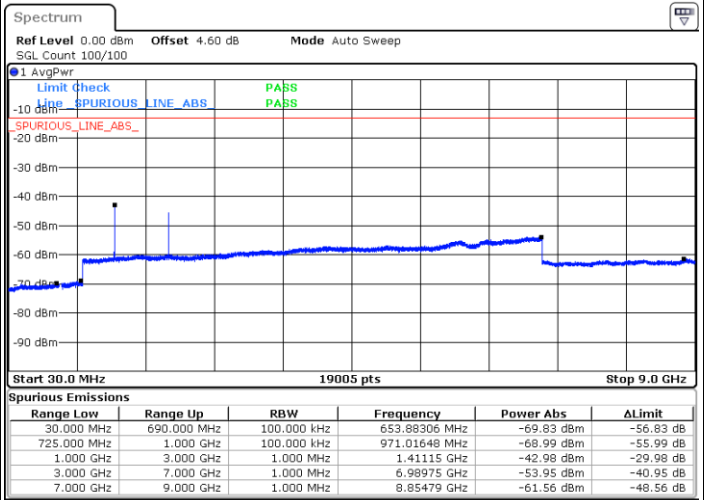
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

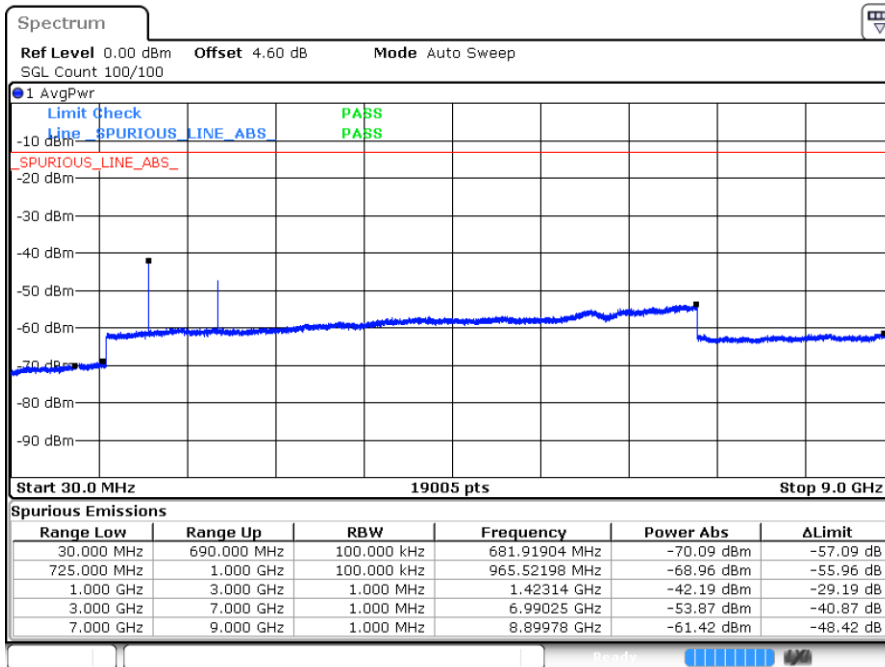


Date: 17 JAN 2023 22:37:54



Date: 17 JAN 2023 22:47:22

Highest Channel / QPSK



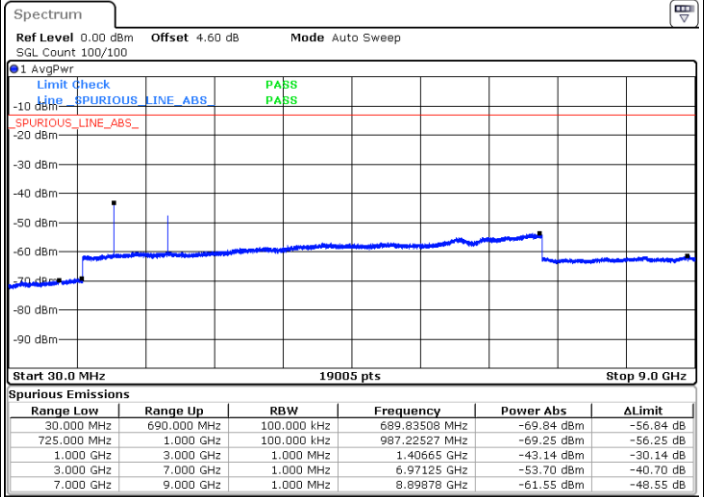
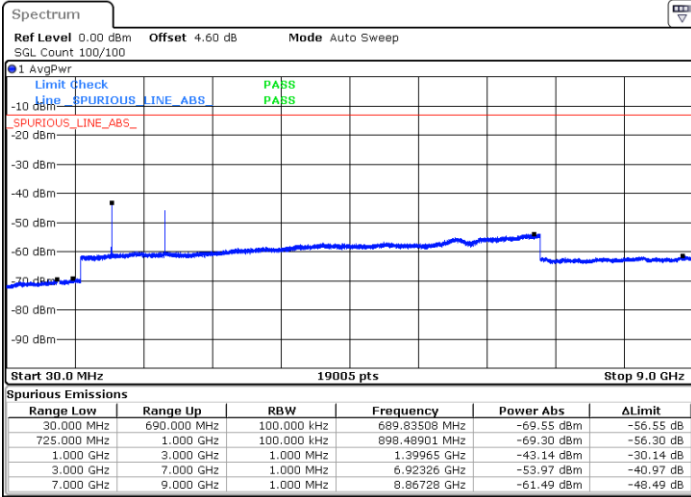
Date: 17 JAN 2023 22:48:42



LTE Band 12 / 10MHz

Lowest Channel / QPSK

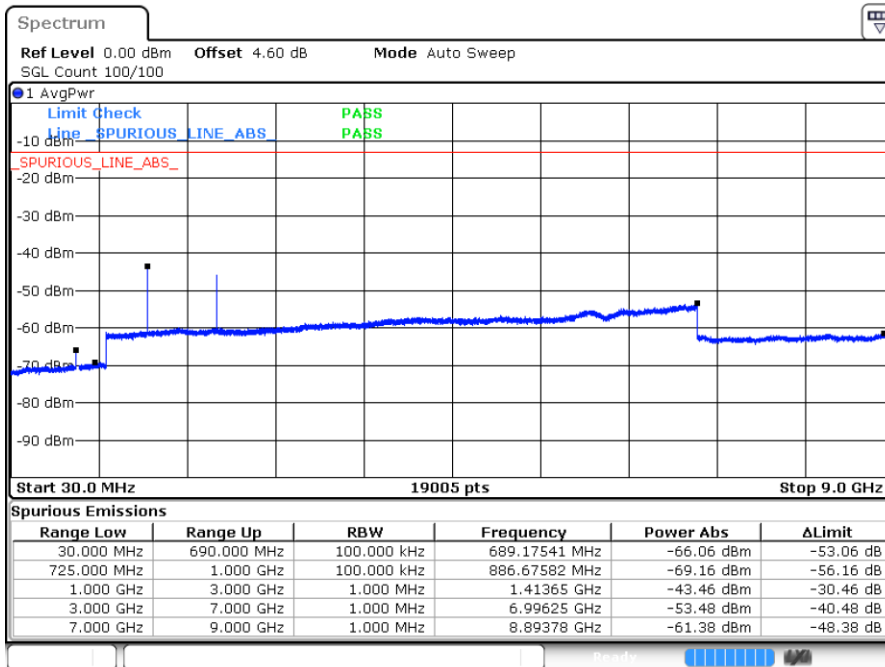
Middle Channel / QPSK



Date: 17 JAN 2023 22:56:44

Date: 17 JAN 2023 23:03:06

Highest Channel / QPSK



Date: 17 JAN 2023 23:04:27



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 | 0.0002 | |
| 30 | Normal Voltage | 0.0042 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0035 | |
| 0 | Normal Voltage | 0.0024 | |
| -10 | Normal Voltage | 0.0018 | |
| -20 | Normal Voltage | 0.0053 | |
| -30 | Normal Voltage | 0.0042 | |
| 20 | Maximum Voltage | 0.0013 | |
| 20 | Normal Voltage | 0.0013 | |
| 20 | End Point | 0.0006 | |

Note:

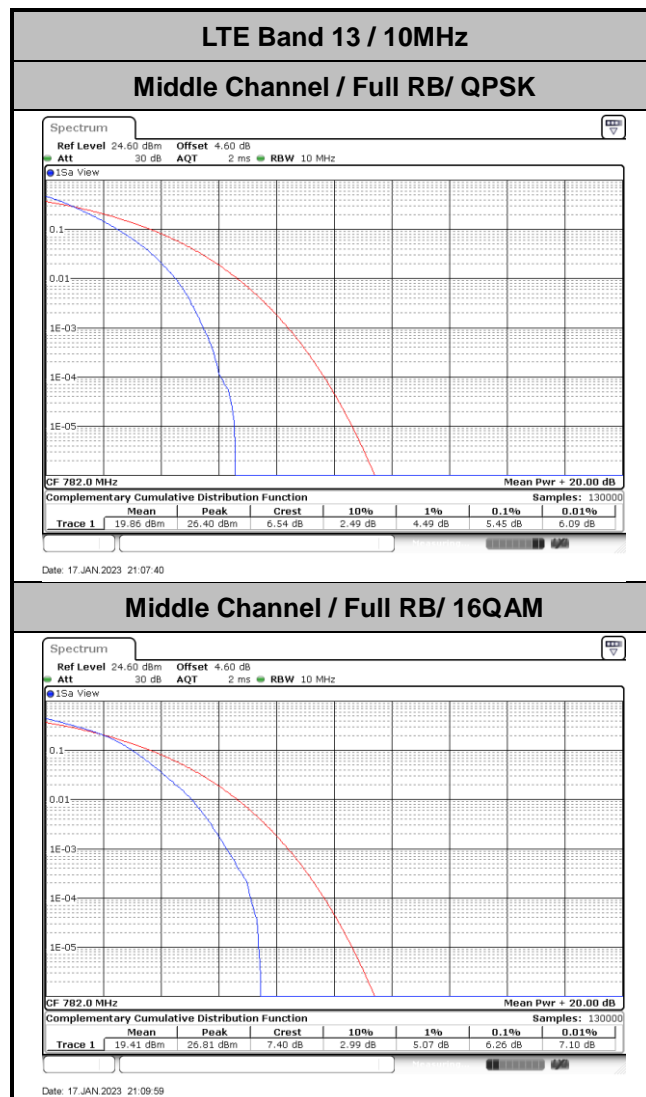
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

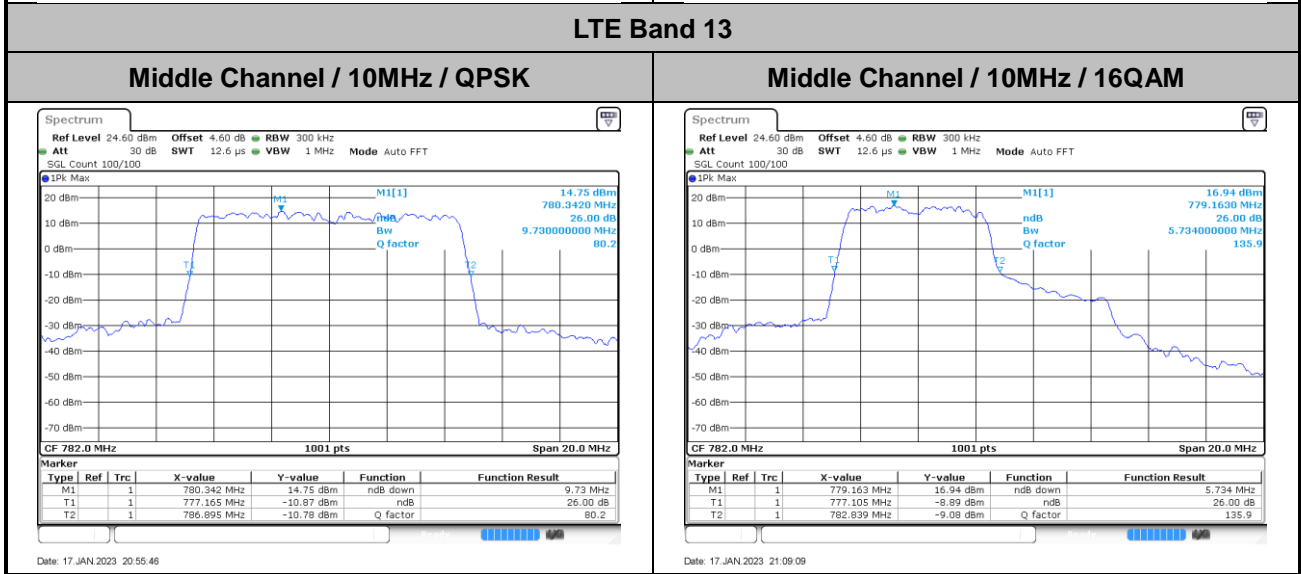
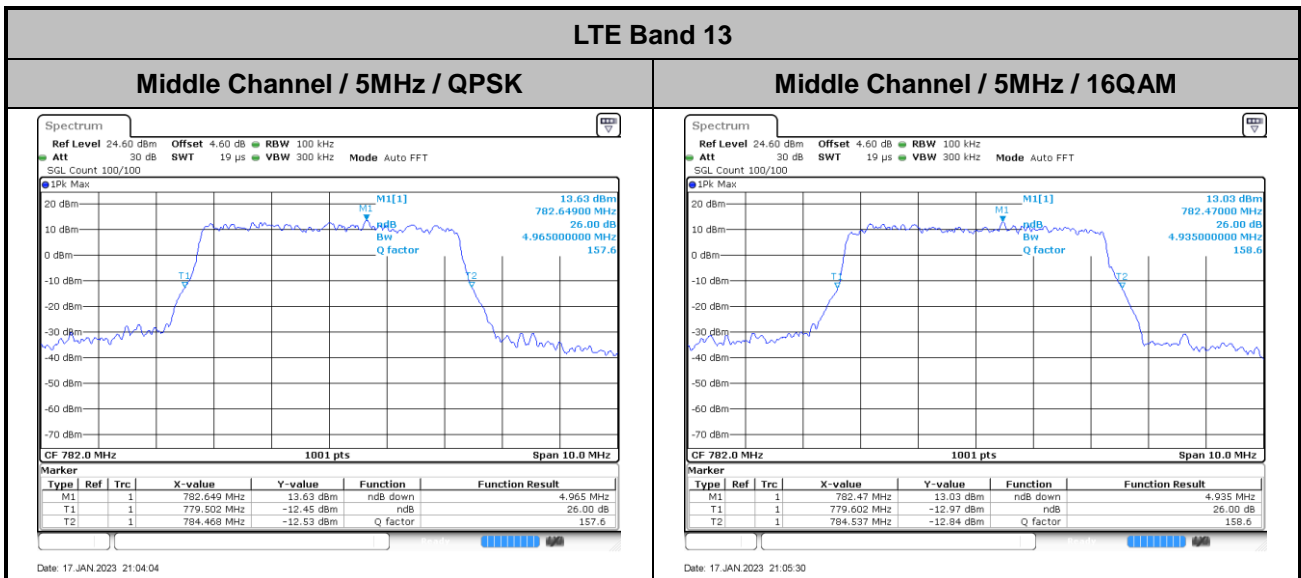
| Mode | LTE Band 13 / 10MHz | | |
|-----------|---------------------|---------|-------------|
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 5.45 | 6.26 | PASS |





26dB Bandwidth

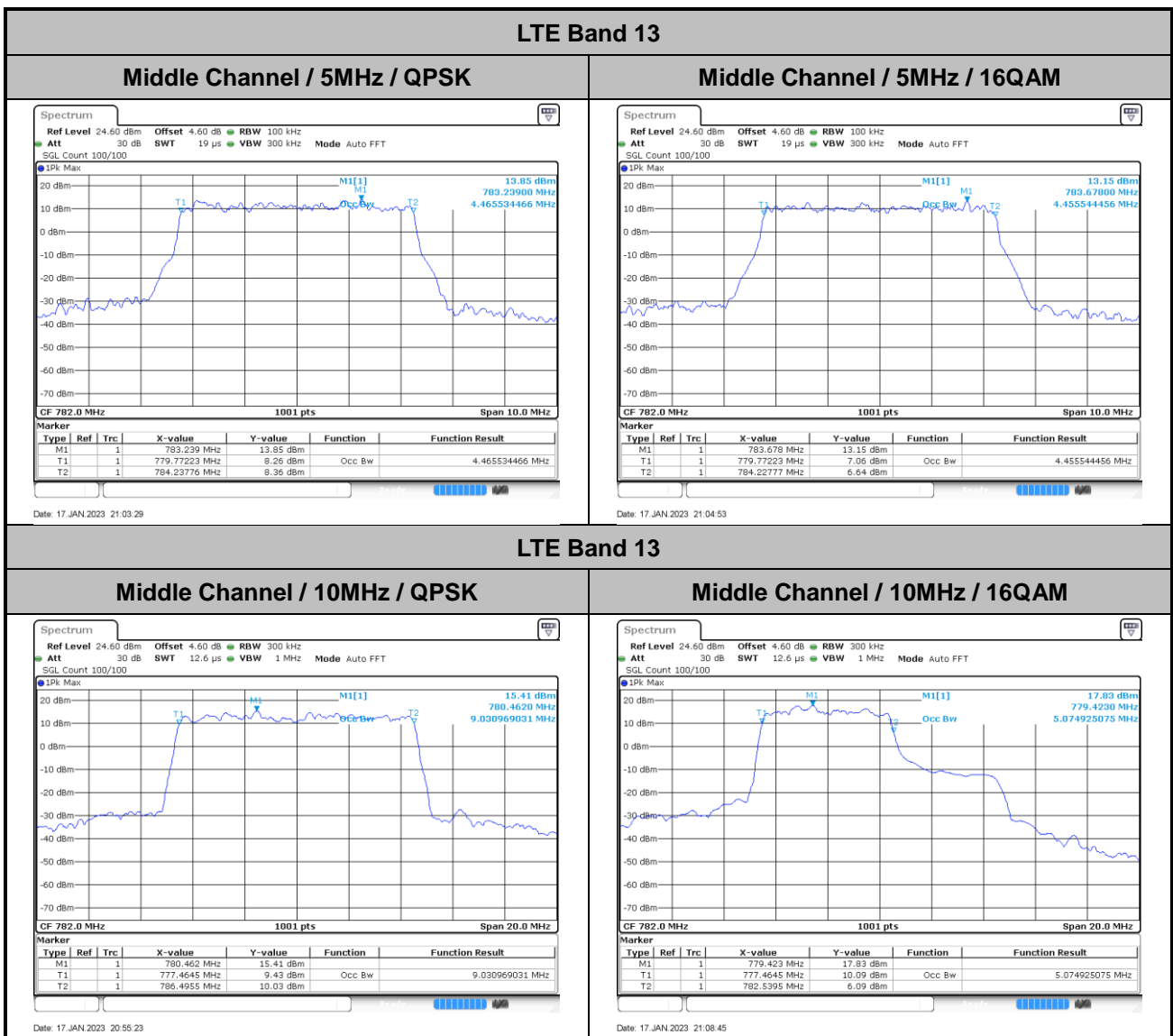
| Mode | LTE Band 13 : 26dB BW(MHz) | |
|-----------|----------------------------|-------|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.97 | 4.94 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.73 | 5.73 |





Occupied Bandwidth

| Mode | LTE Band 13 : 99%OBW(MHz) | |
|-----------|---------------------------|-------|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.47 | 4.46 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.03 | 5.07 |

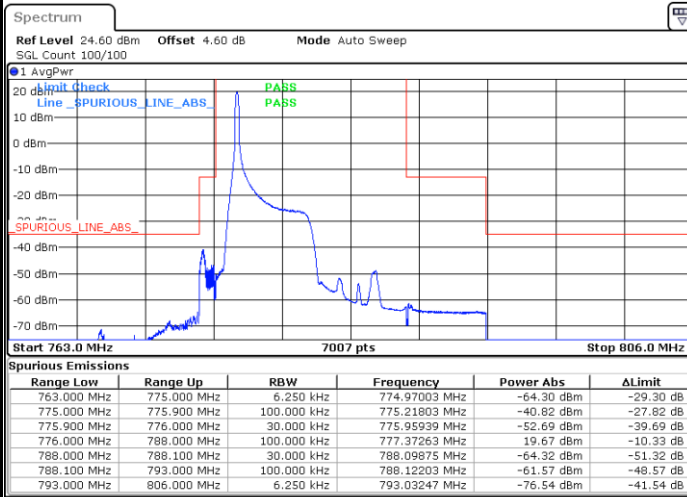




Conducted Band Edge

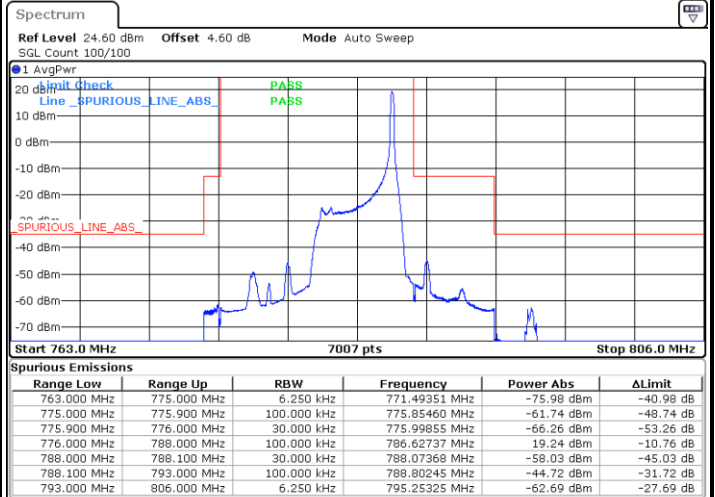
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



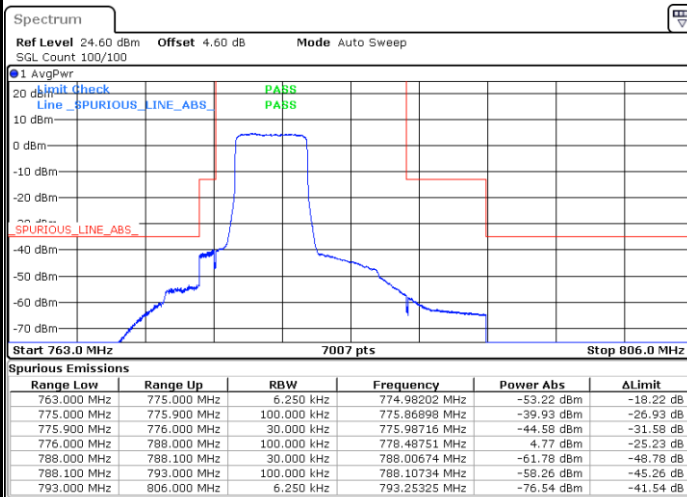
Date: 17 JAN 2023 20:29:03

Highest Band Edge / 1 RB



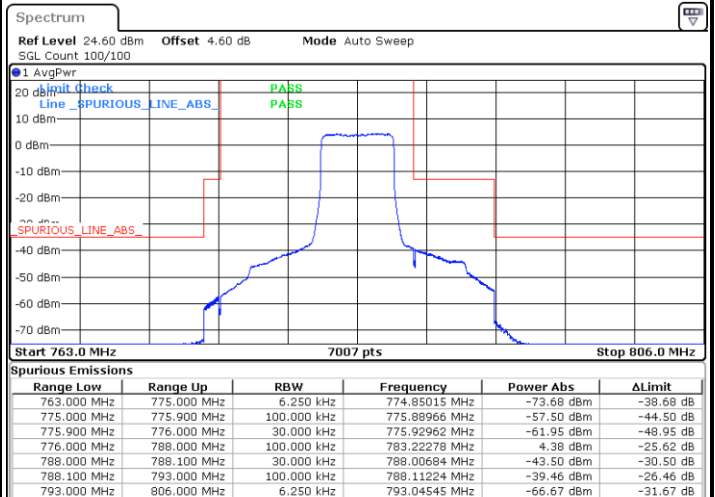
Date: 17 JAN 2023 20:39:03

Lowest Band Edge / Full RB



Date: 17 JAN 2023 20:34:33

Highest Band Edge / Full RB



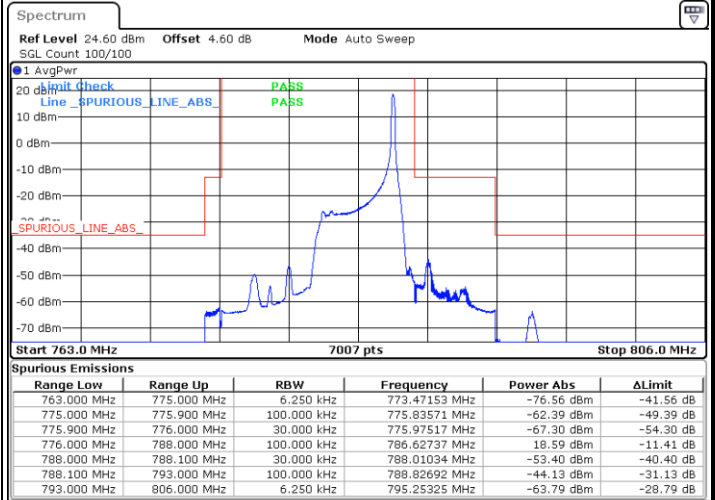
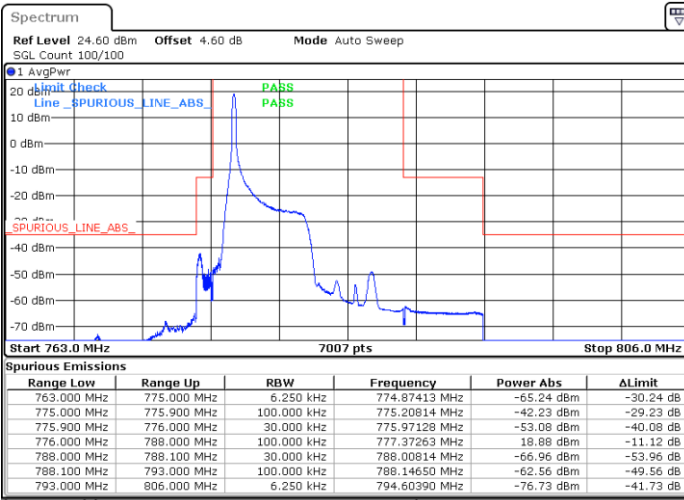
Date: 17 JAN 2023 20:44:34



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

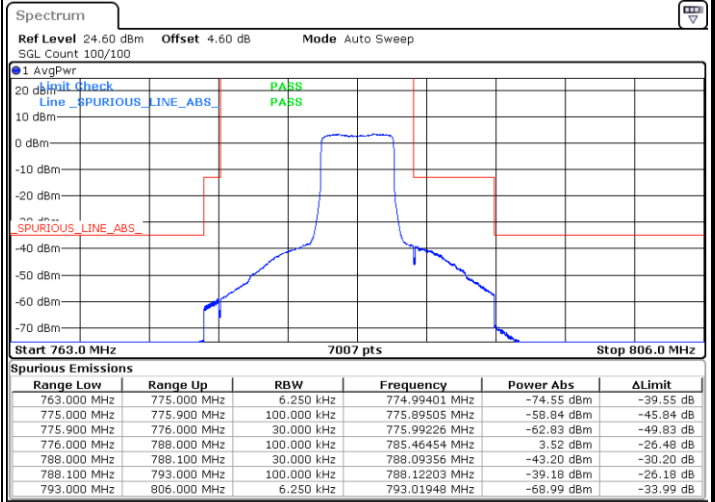
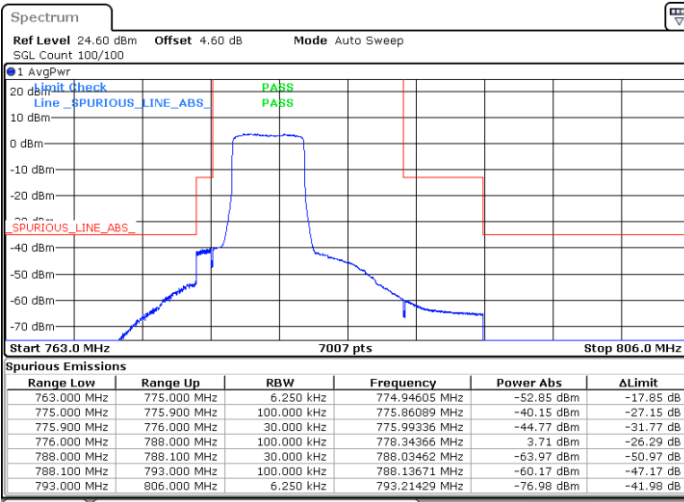


Date: 17. JAN 2023 20:30:53

Date: 17. JAN 2023 20:40:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17. JAN 2023 20:32:43

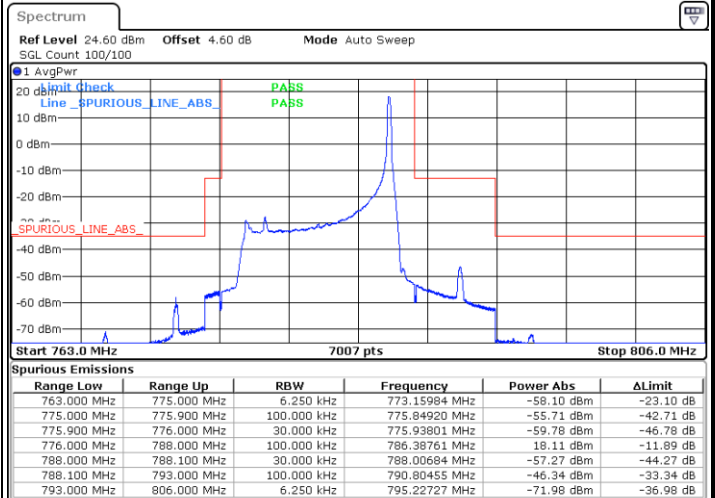
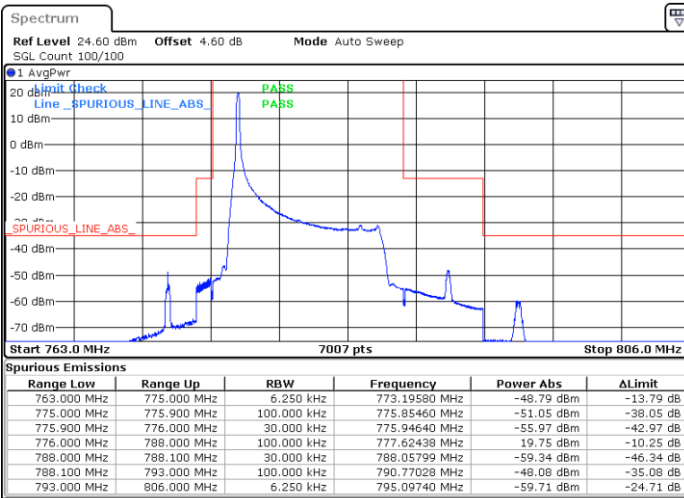
Date: 17. JAN 2023 20:42:44



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

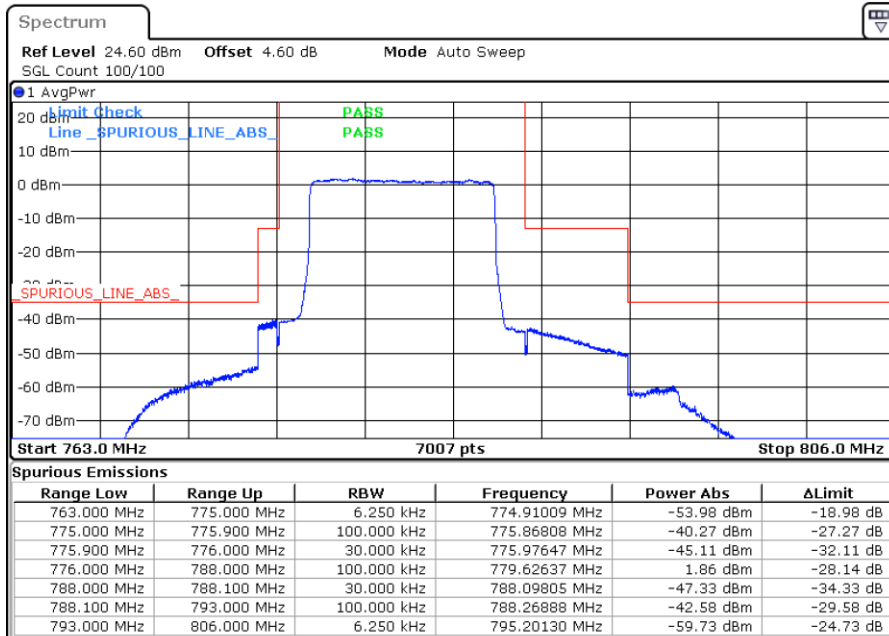
middle Band Edge / 1 RB



Date: 17. JAN 2023 20:47:44

Date: 17. JAN 2023 20:53:12

middle Band Edge / Full RB



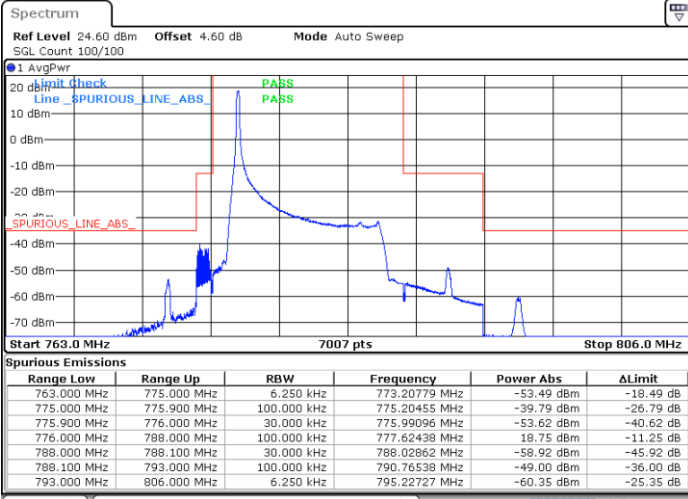
Date: 17. JAN 2023 20:55:02



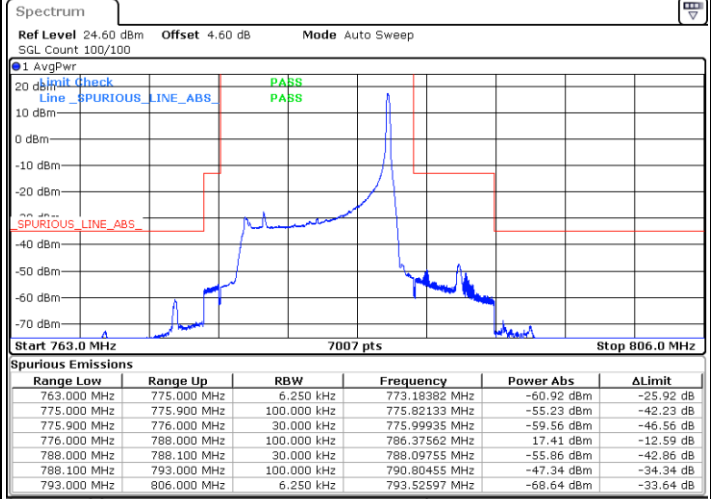
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB

middle Band Edge / 1 RB



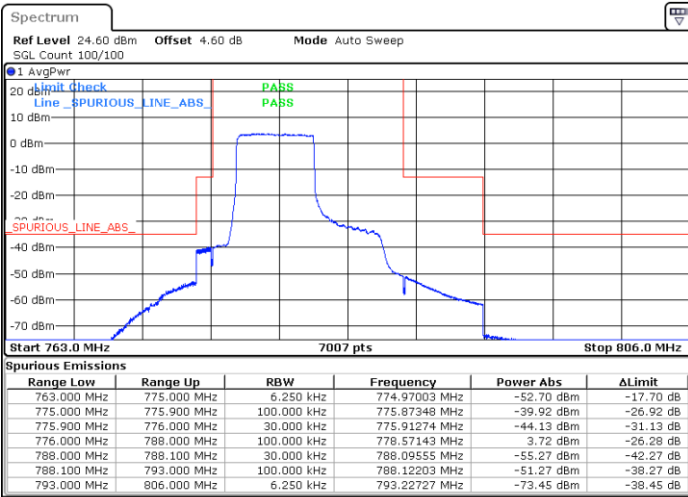
Date: 17.JAN.2023 20:49:34



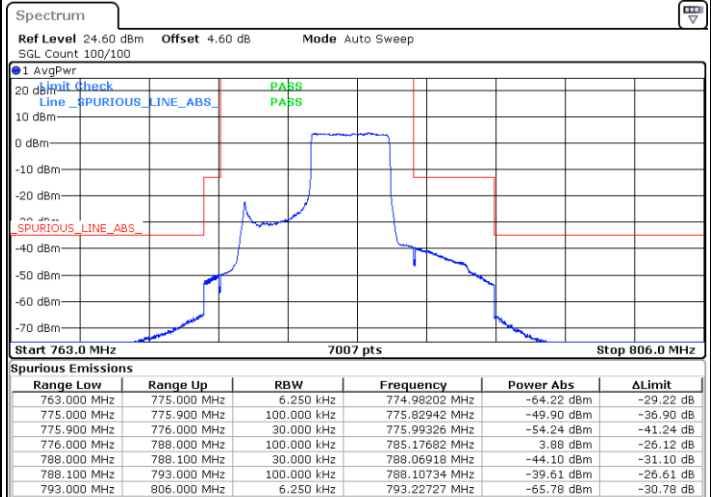
Date: 17.JAN.2023 20:51:23

middle Band Edge / 27 RB 0

middle Band Edge / 27 RB 23



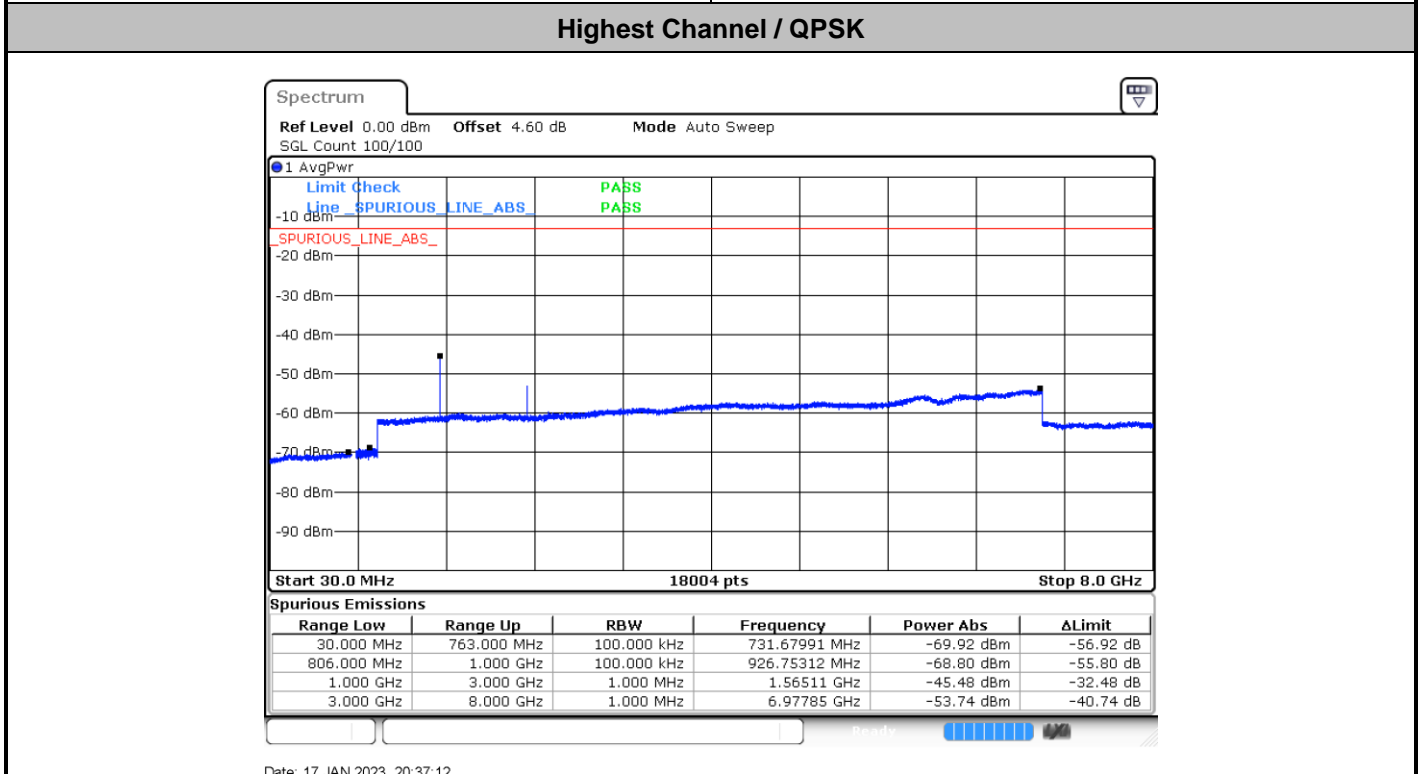
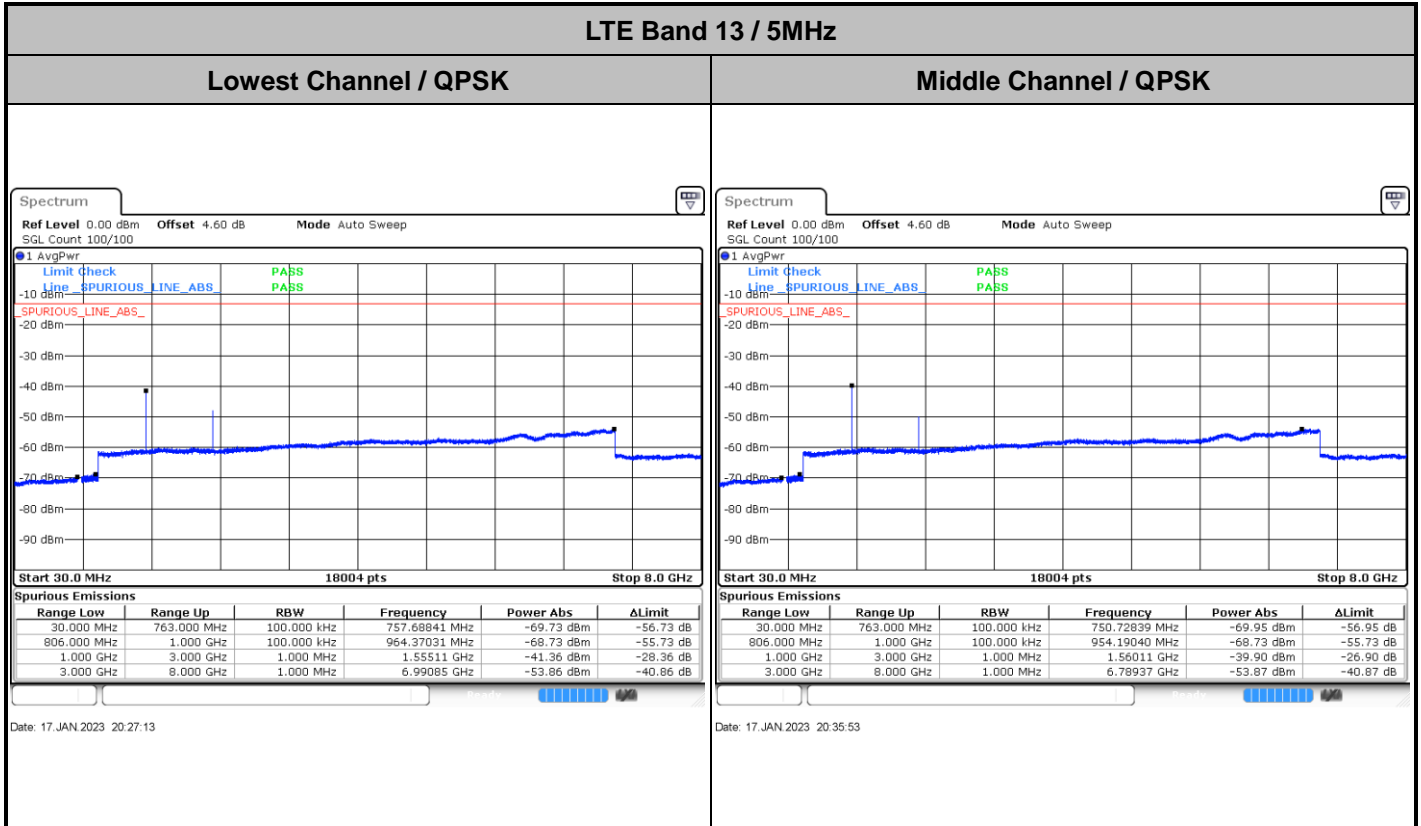
Date: 17.JAN.2023 21:14:36



Date: 17.JAN.2023 21:17:11



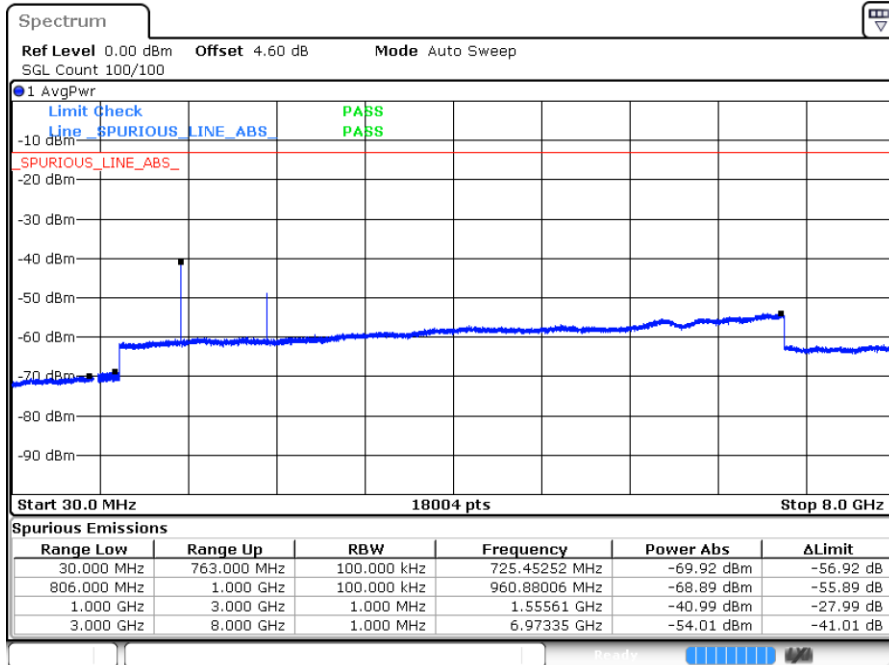
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 17 JAN 2023 20:45:54



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 | 0.0045 | PASS |
| 40 | Normal Voltage | 0.0036 | |
| 30 | Normal Voltage | 0.0052 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0009 | |
| 0 | Normal Voltage | 0.0023 | |
| -10 | Normal Voltage | 0.0016 | |
| -20 | Normal Voltage | 0.0014 | |
| -30 | Normal Voltage | 0.0056 | |
| 20 | Maximum Voltage | 0.0064 | |
| 20 | Normal Voltage | 0.0002 | |
| 20 | End Point | 0.0026 | |

Note:

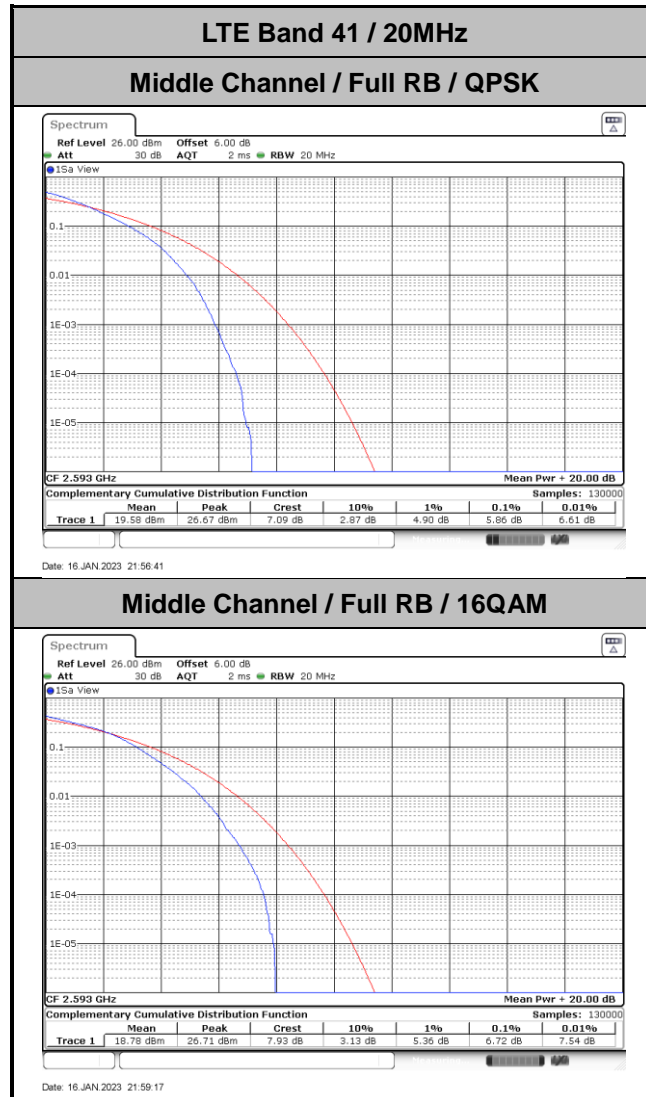
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

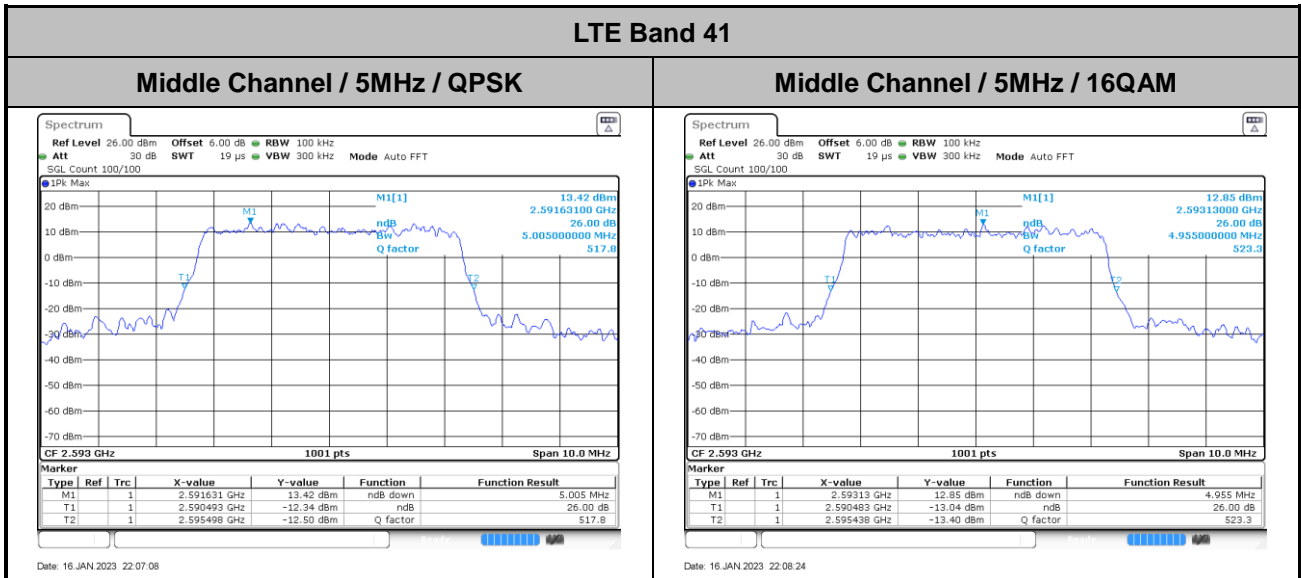
| Mode | LTE Band 41 / 20MHz | | |
|-----------|---------------------|---------|-------------|
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 5.86 | 6.72 | PASS |





26dB Bandwidth

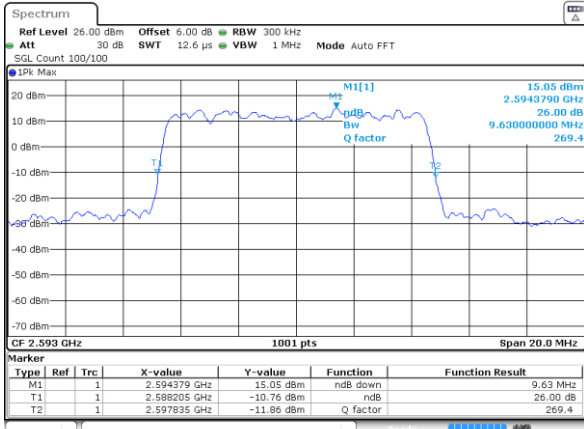
| Mode | LTE Band 41 : 26dB BW(MHz) | |
|------------------|----------------------------|--------------|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 5.01 | 4.96 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.63 | 5.75 |
| BW | 15MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 14.30 | 6.71 |
| BW | 20MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 18.94 | 5.59 |





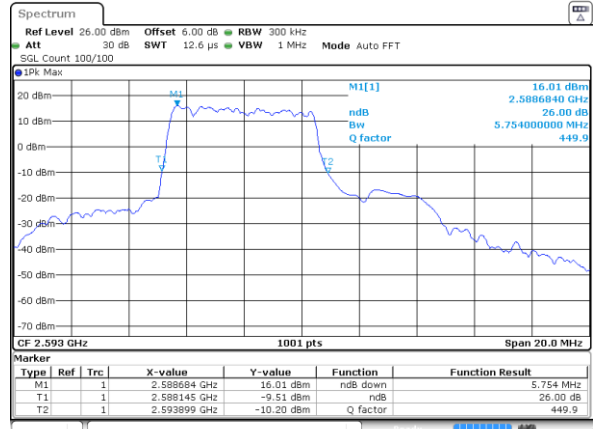
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 16 JAN 2023 22:04:27

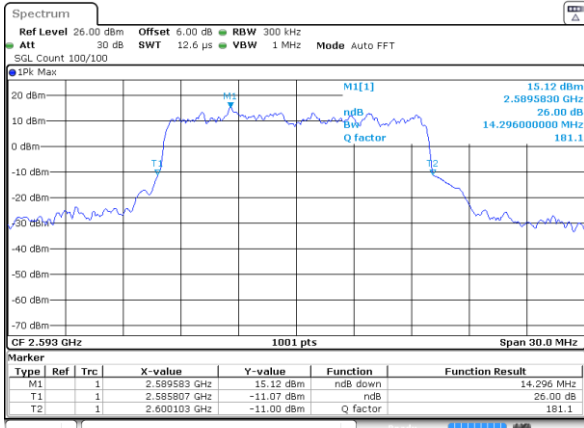
Middle Channel / 10MHz / 16QAM



Date: 16 JAN 2023 22:05:22

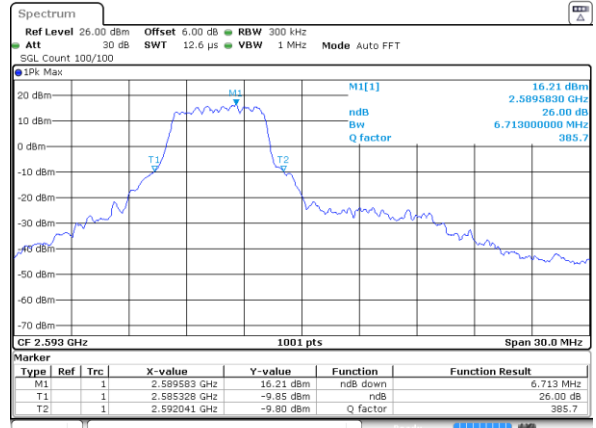
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 16 JAN 2023 22:01:39

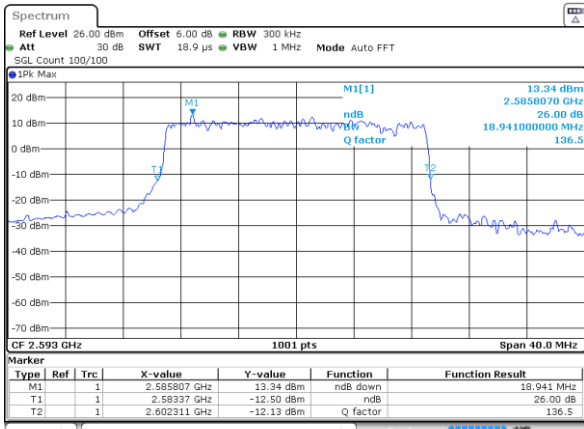
Middle Channel / 15MHz / 16QAM



Date: 16 JAN 2023 22:02:40

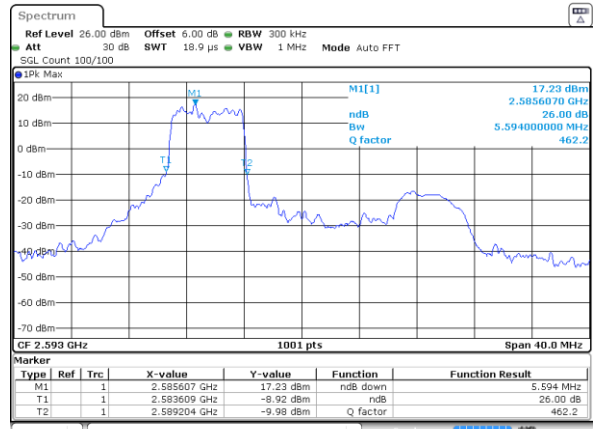
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16 JAN 2023 21:57:53

Middle Channel / 20MHz / 16QAM

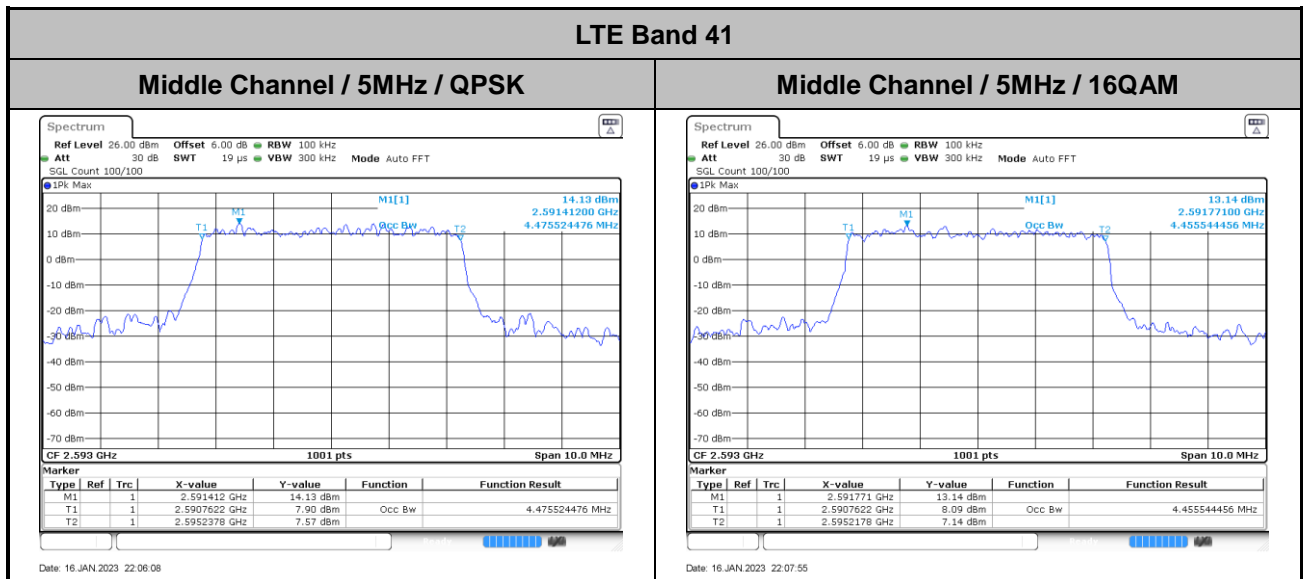


Date: 16 JAN 2023 21:59:59



Occupied Bandwidth

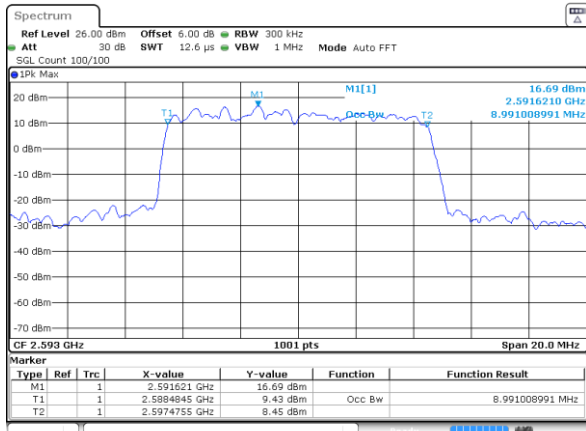
| Mode | LTE Band 41 : 99%OBW(MHz) | |
|------------------|---------------------------|--------------|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.48 | 4.46 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 8.99 | 4.98 |
| BW | 15MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 13.52 | 5.06 |
| BW | 20MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 17.78 | 5.03 |





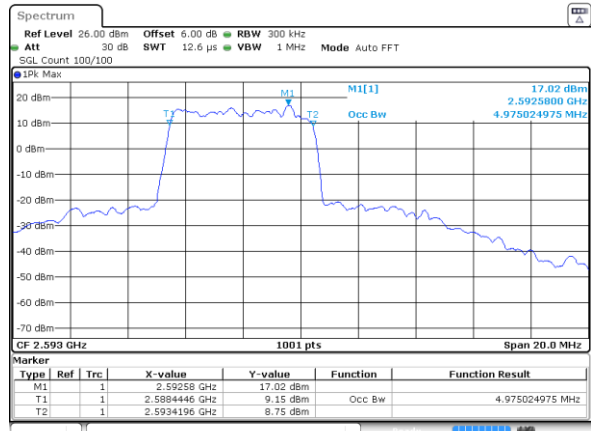
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 16 JAN 2023 22:03:51

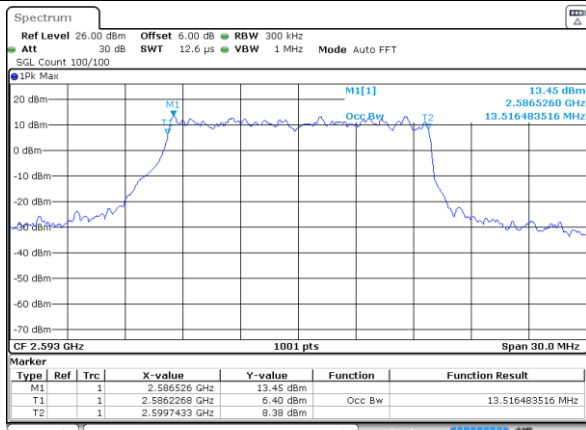
Middle Channel / 10MHz / 16QAM



Date: 16 JAN 2023 22:05:08

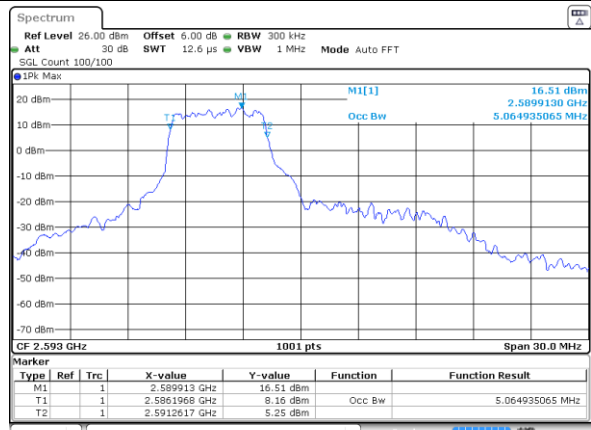
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 16 JAN 2023 22:01:16

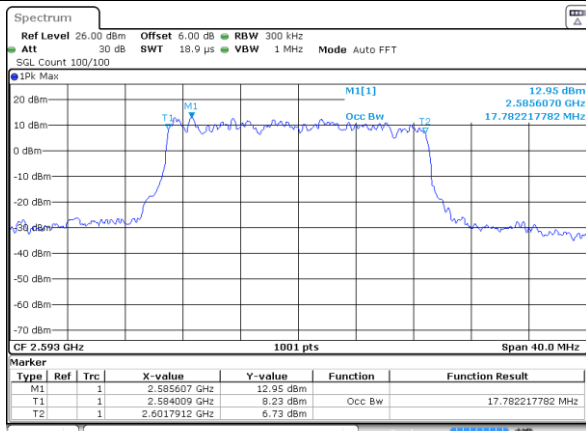
Middle Channel / 15MHz / 16QAM



Date: 16 JAN 2023 22:02:22

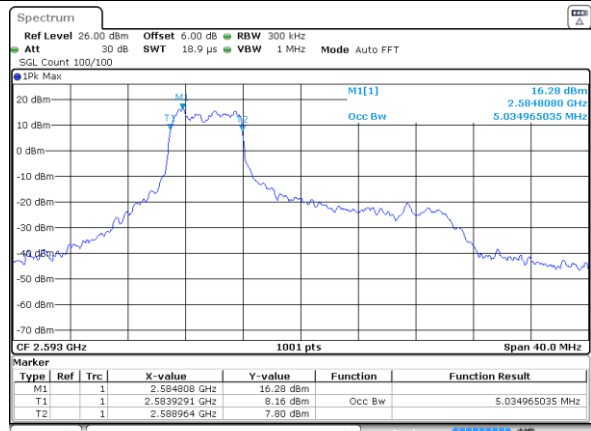
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16 JAN 2023 21:57:23

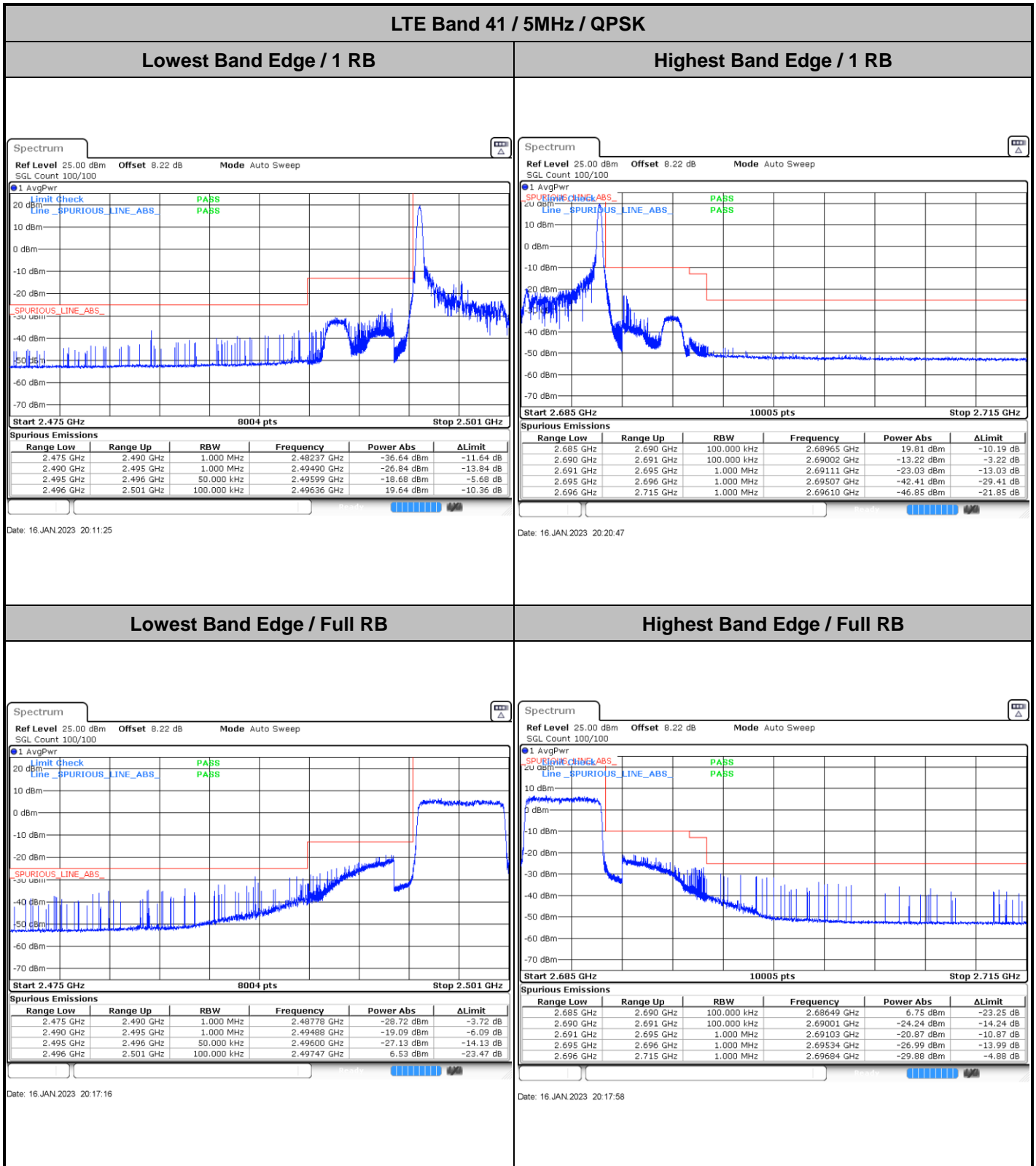
Middle Channel / 20MHz / 16QAM



Date: 16 JAN 2023 21:59:41



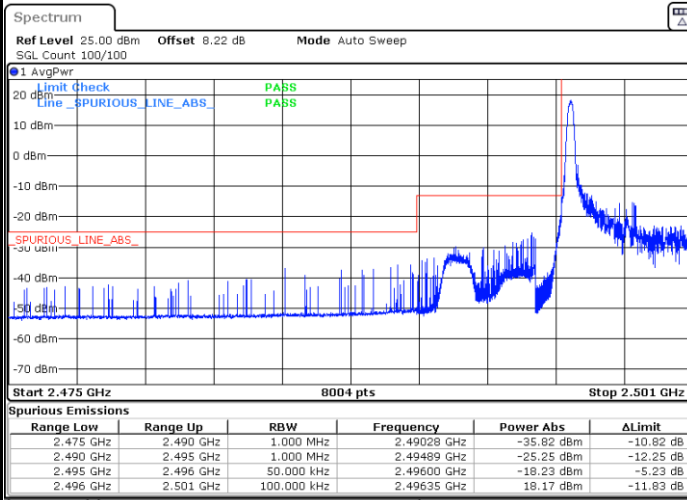
Conducted Band Edge





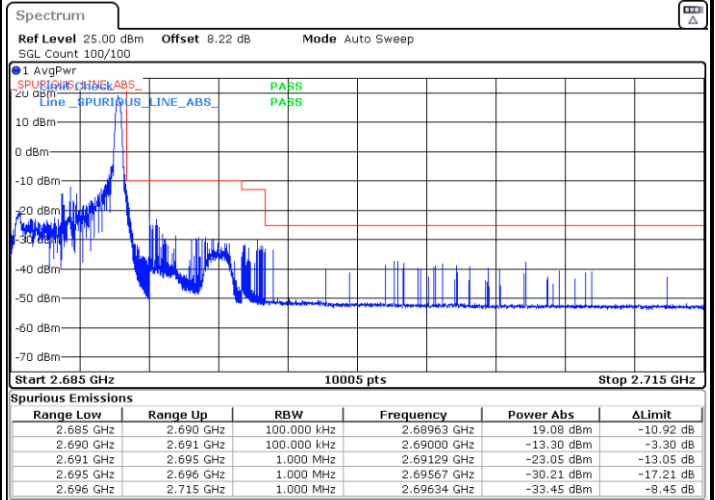
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



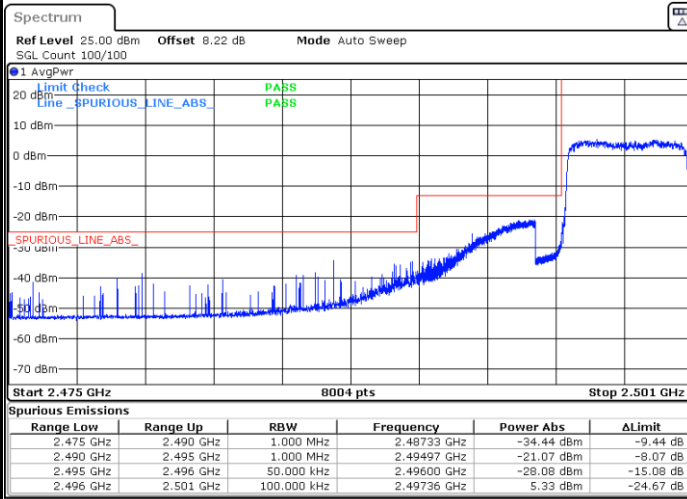
Date: 16 JAN 2023 20:13:49

Highest Band Edge / 1 RB



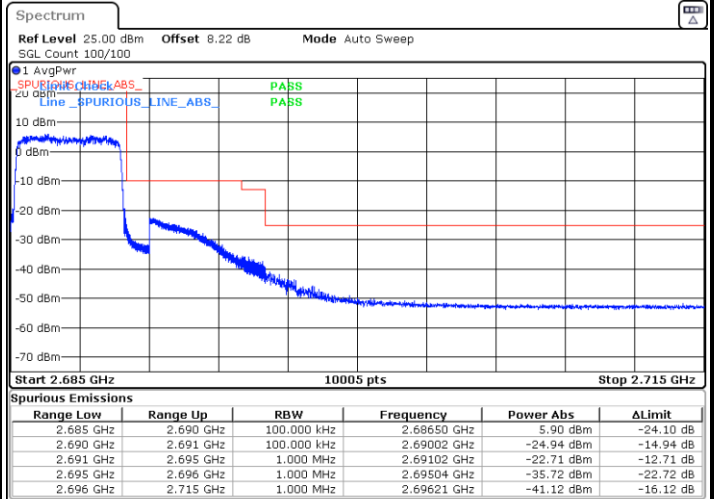
Date: 16 JAN 2023 20:19:32

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:16:17

Highest Band Edge / Full RB

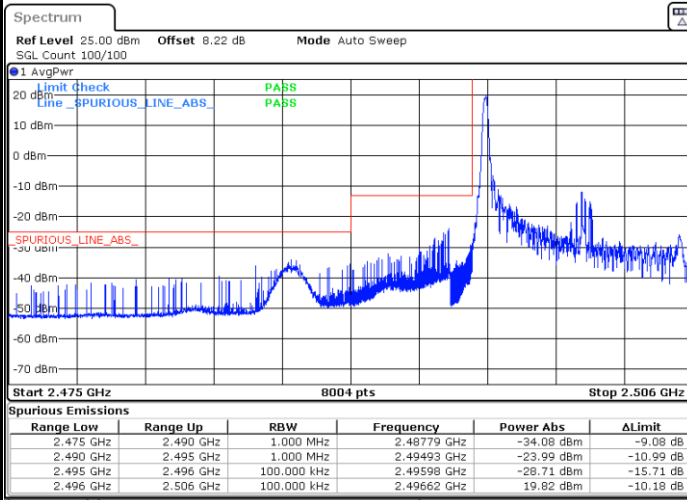


Date: 16 JAN 2023 20:18:42



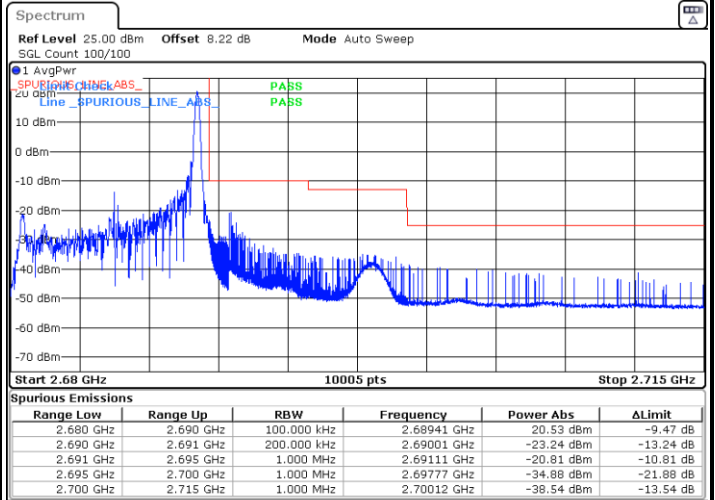
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



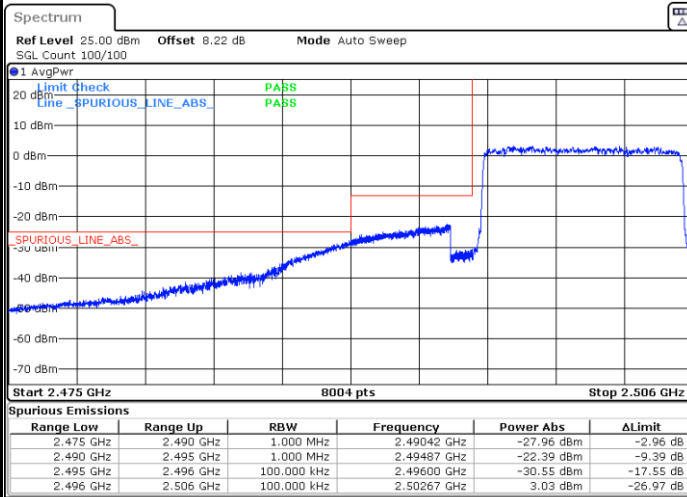
Date: 16 JAN 2023 20:38:02

Highest Band Edge / 1 RB



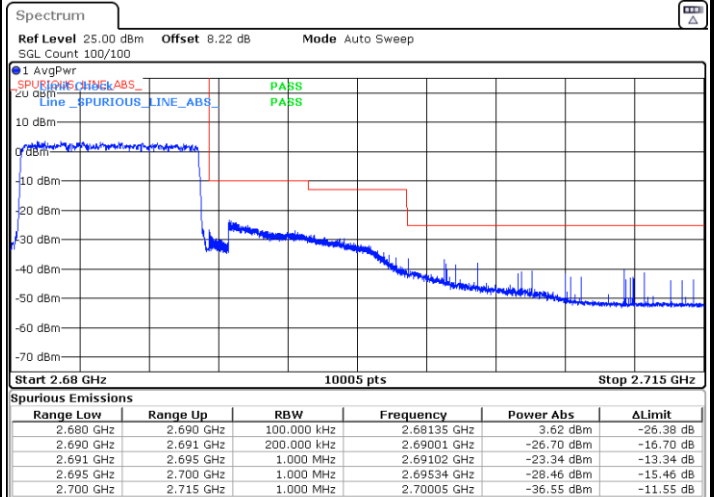
Date: 16 JAN 2023 20:44:22

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:40:17

Highest Band Edge / Full RB

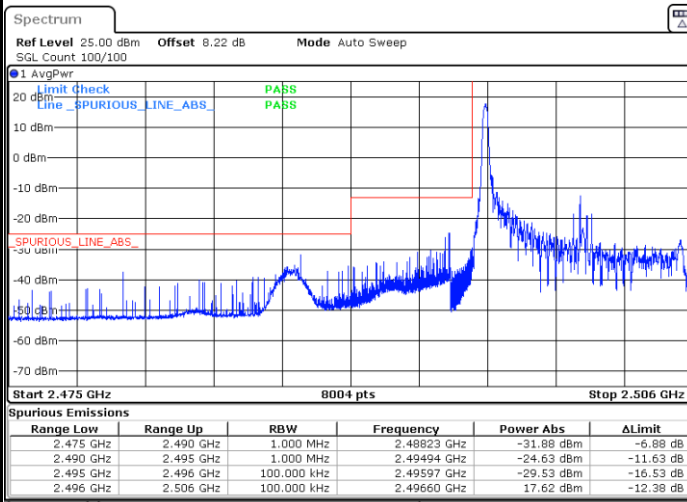


Date: 16 JAN 2023 20:45:47



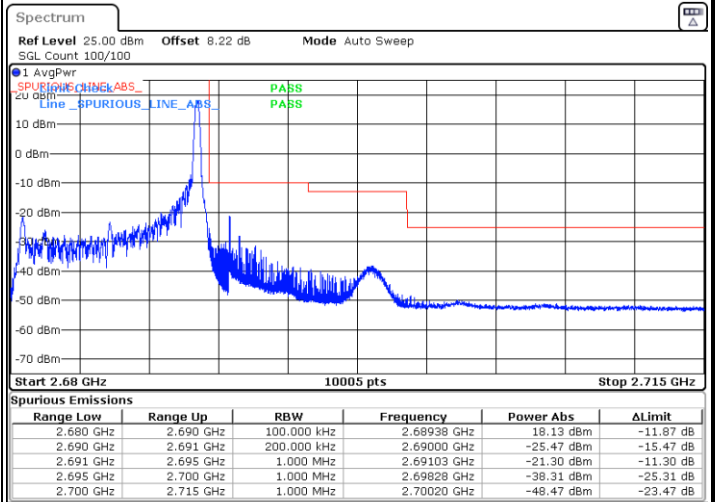
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



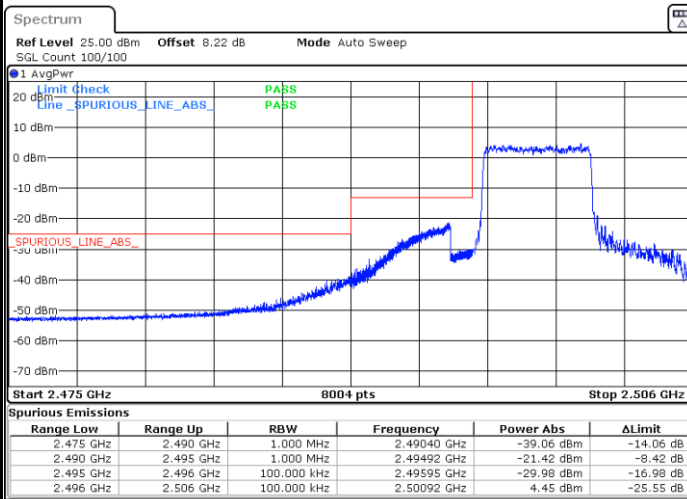
Date: 16 JAN 2023 20:38:49

Highest Band Edge / 1 RB



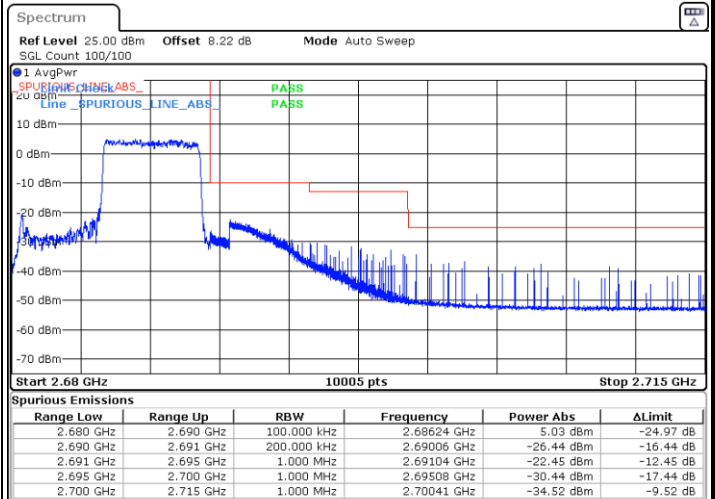
Date: 16 JAN 2023 20:43:52

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:41:46

Highest Band Edge / Full RB



Date: 16 JAN 2023 20:47:50