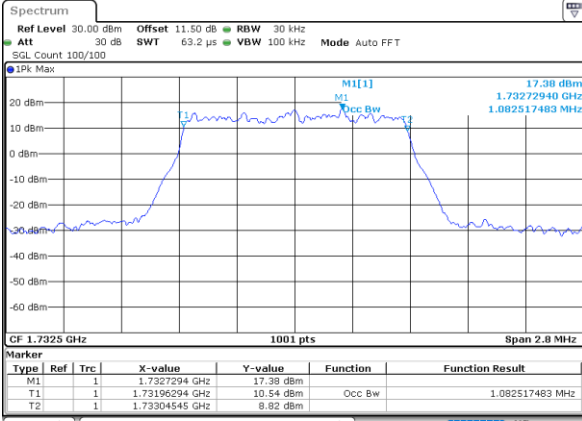




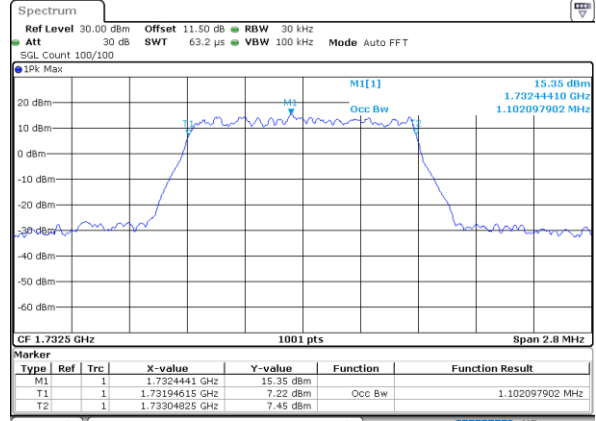
LTE Band 4

Middle Channel / 1.4MHz / QPSK



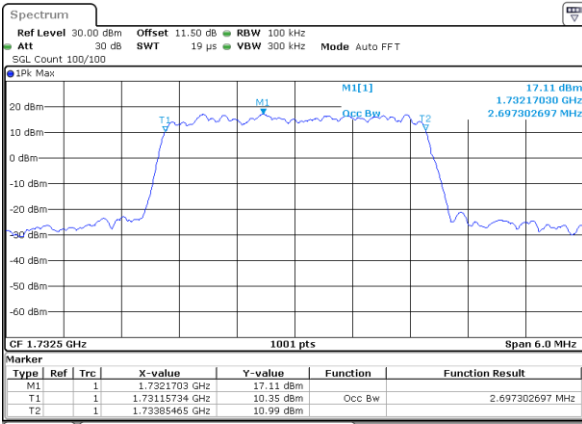
Date: 30.OCT.2021 04:37:13

Middle Channel / 1.4MHz / 16QAM



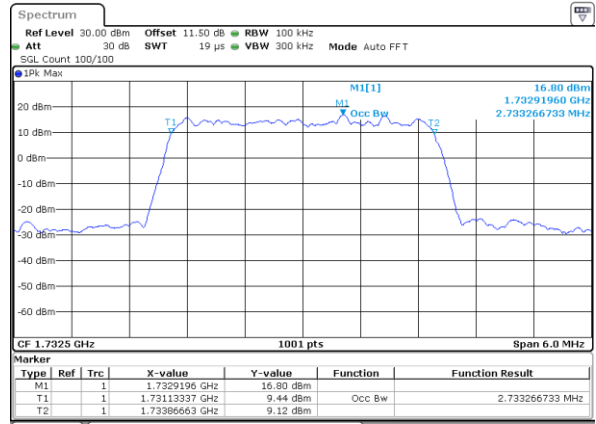
Date: 30.OCT.2021 04:37:34

Middle Channel / 3MHz / QPSK



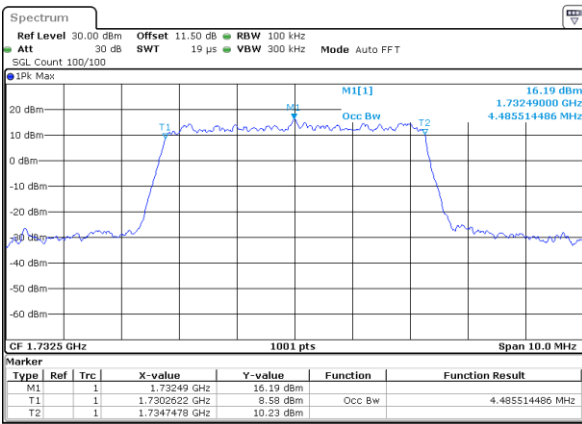
Date: 30.OCT.2021 04:47:40

Middle Channel / 3MHz / 16QAM



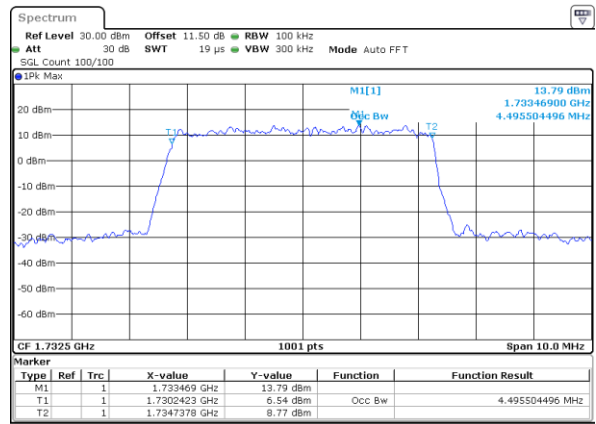
Date: 30.OCT.2021 04:48:01

Middle Channel / 5MHz / QPSK

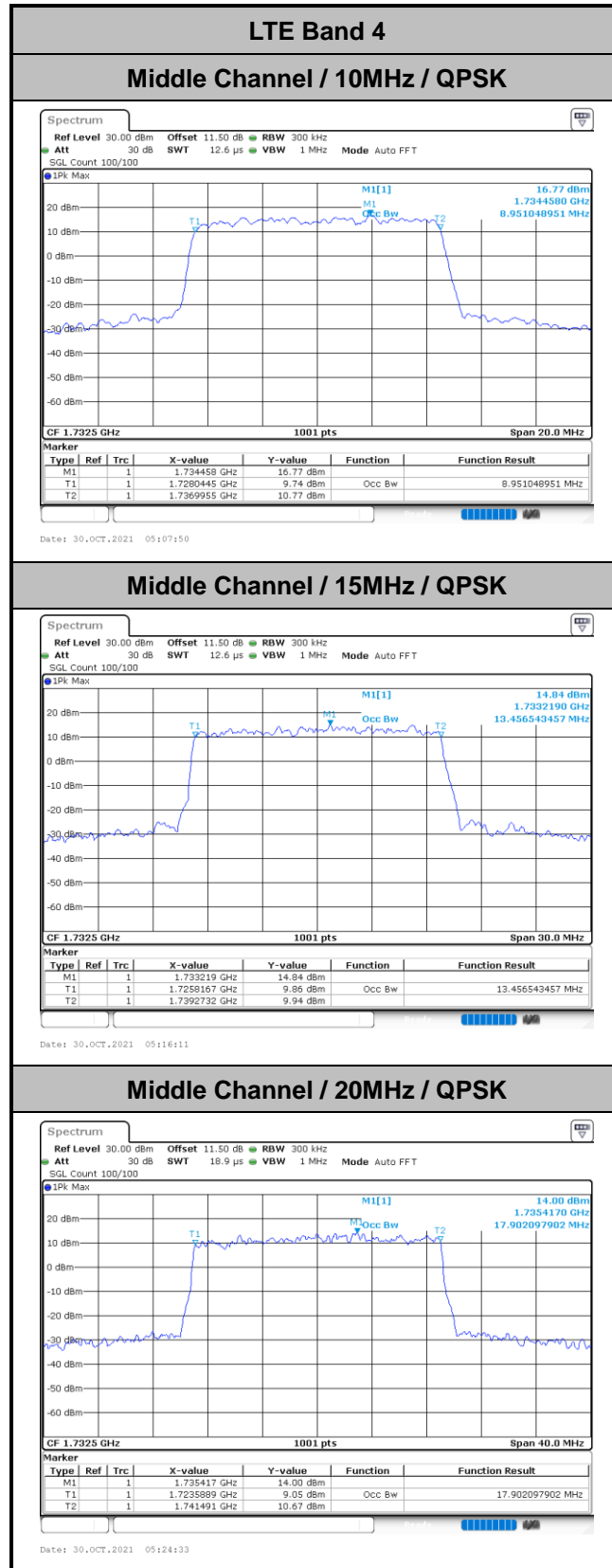


Date: 30.OCT.2021 04:58:05

Middle Channel / 5MHz / 16QAM

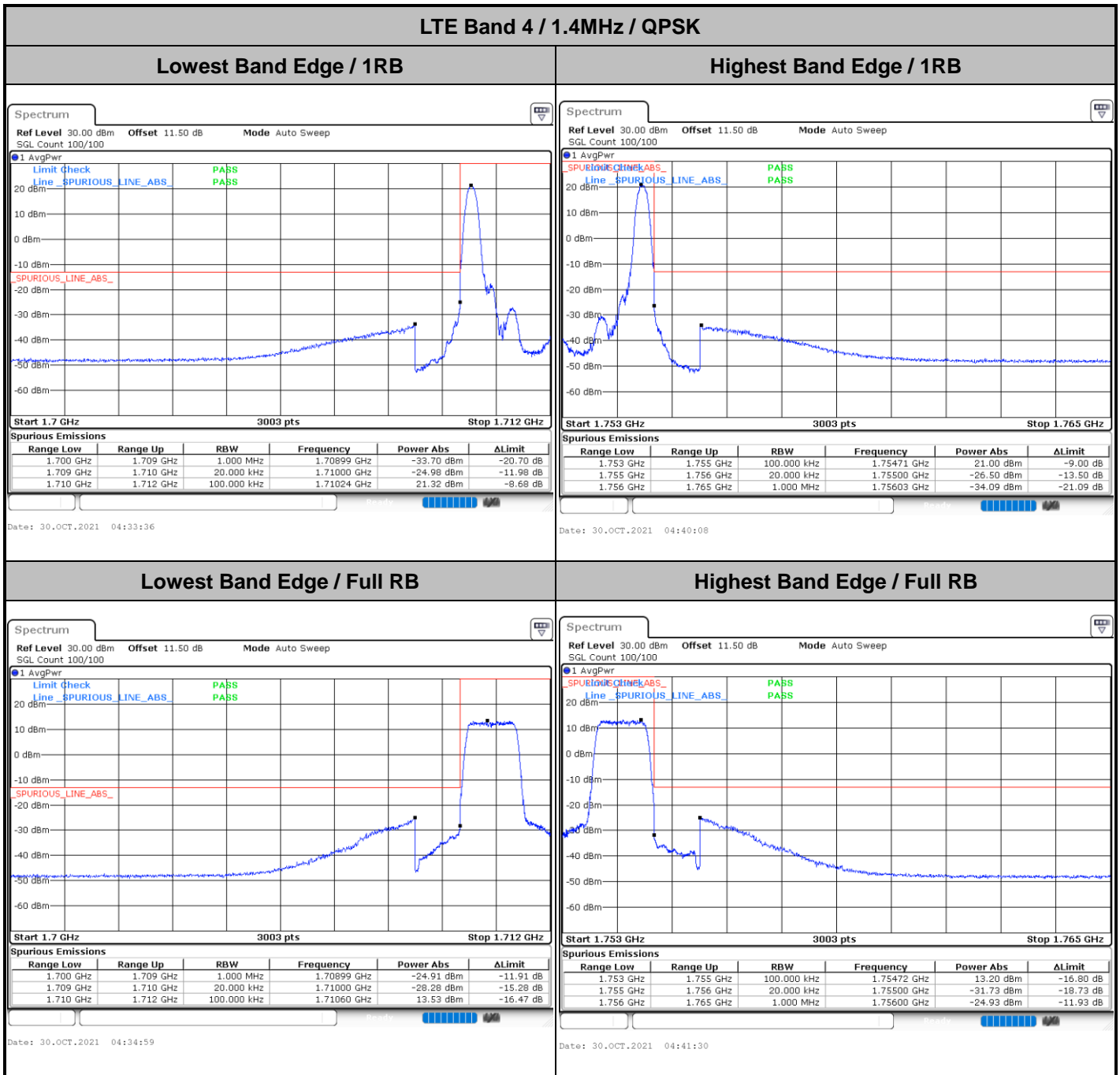


Date: 30.OCT.2021 04:58:26





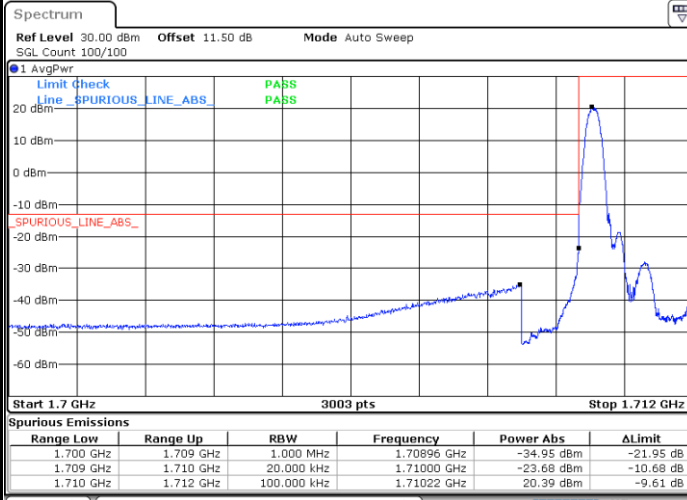
Conducted Band Edge





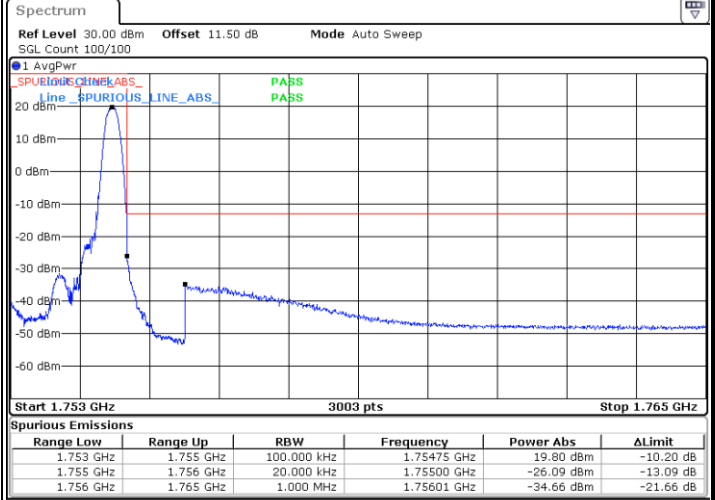
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



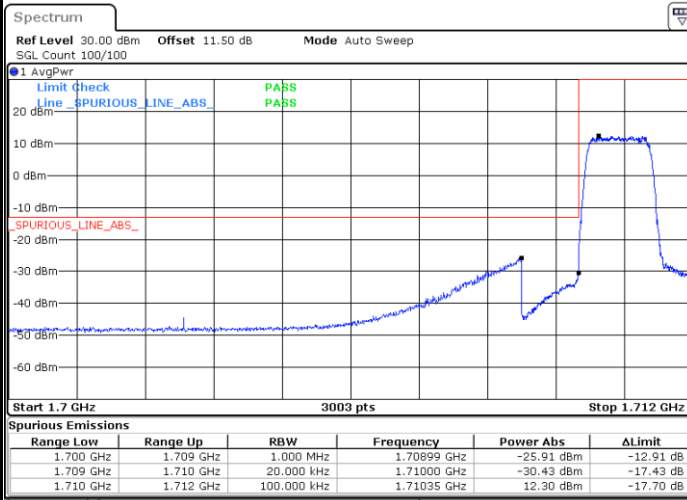
Date: 30.OCT.2021 04:34:17

Highest Band Edge / 1 RB



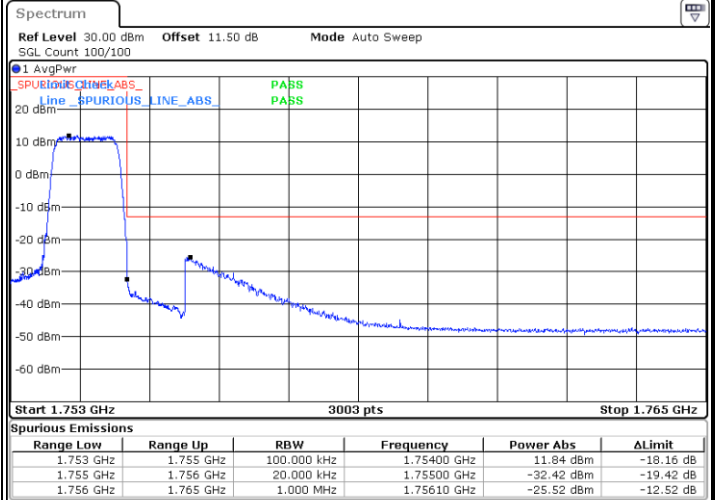
Date: 30.OCT.2021 04:40:49

Lowest Band Edge / Full RB



Date: 30.OCT.2021 04:35:40

Highest Band Edge / Full RB

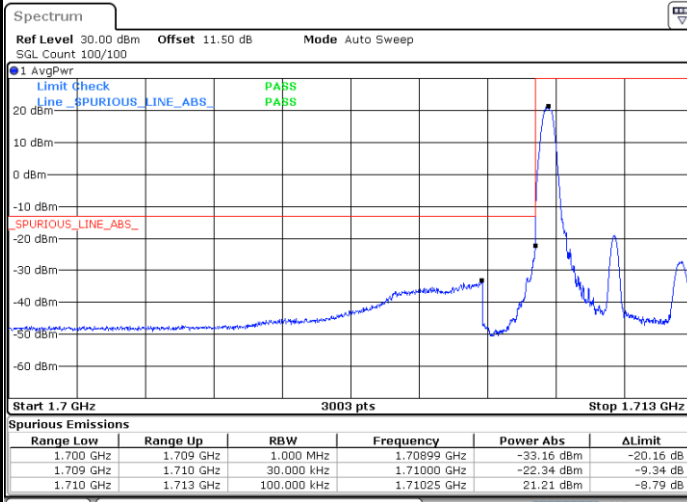


Date: 30.OCT.2021 04:42:11



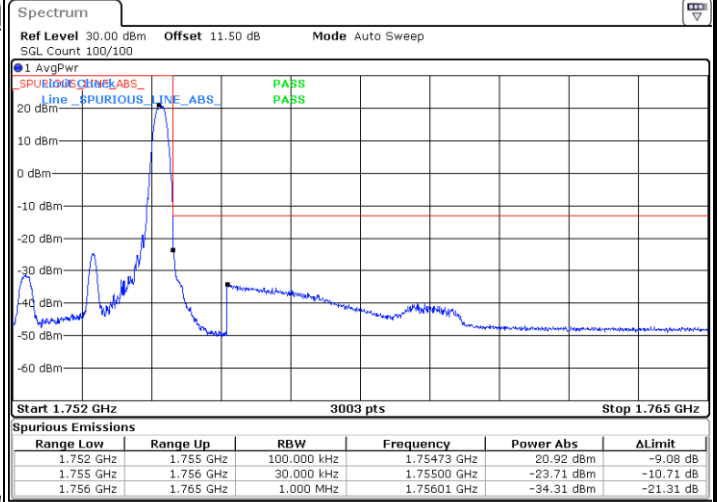
LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



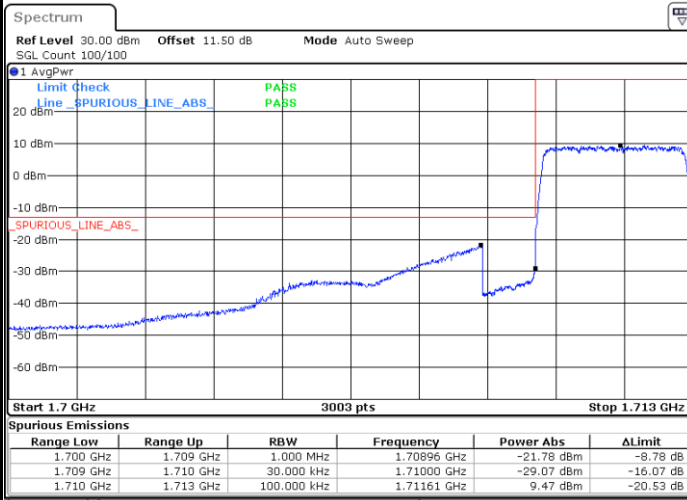
Date: 30.OCT.2021 04:44:04

Highest Band Edge / 1 RB



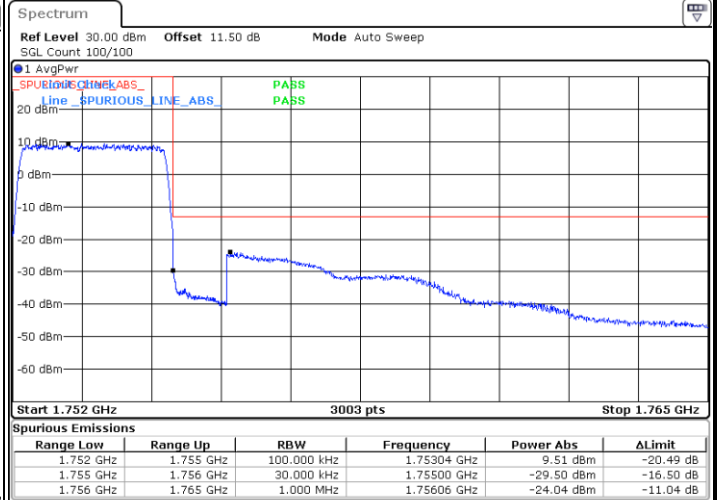
Date: 30.OCT.2021 04:50:35

Lowest Band Edge / Full RB



Date: 30.OCT.2021 04:45:25

Highest Band Edge / Full RB

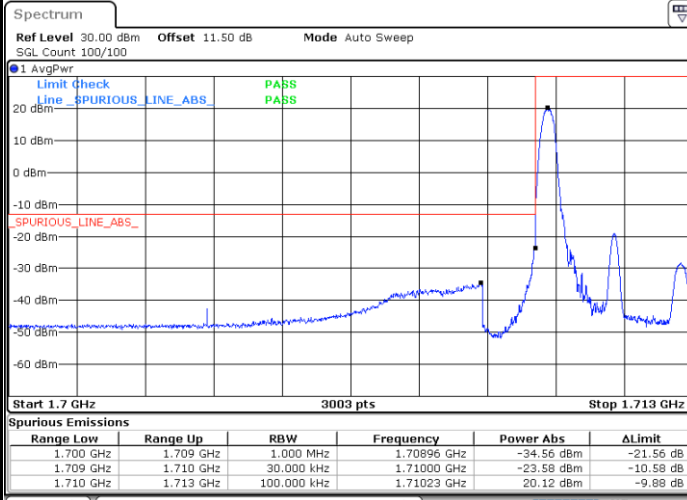


Date: 30.OCT.2021 04:51:56



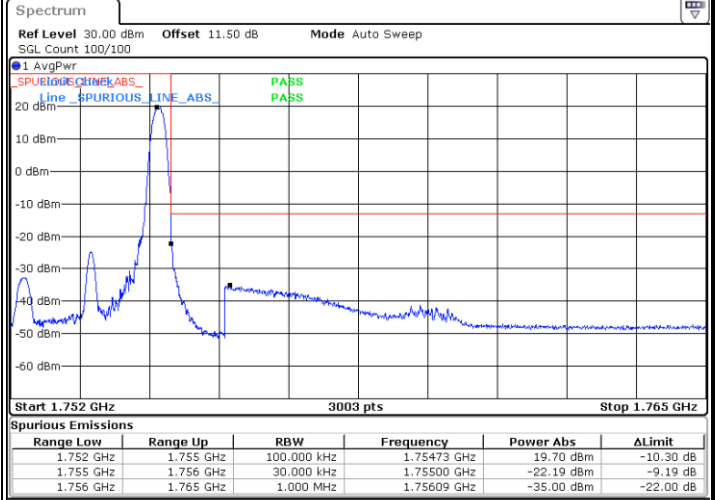
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



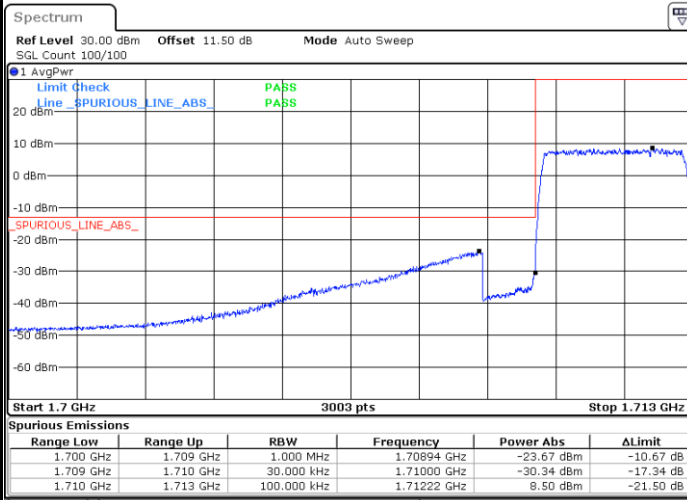
Date: 30.OCT.2021 04:44:44

Highest Band Edge / 1 RB



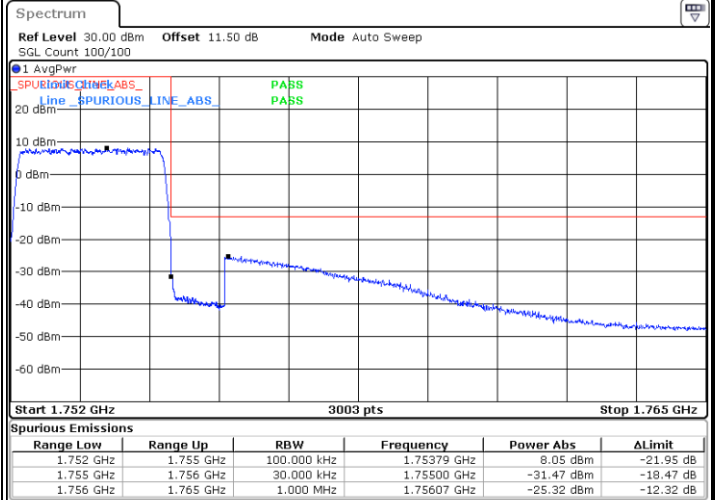
Date: 30.OCT.2021 04:51:15

Lowest Band Edge / Full RB



Date: 30.OCT.2021 04:46:06

Highest Band Edge / Full RB

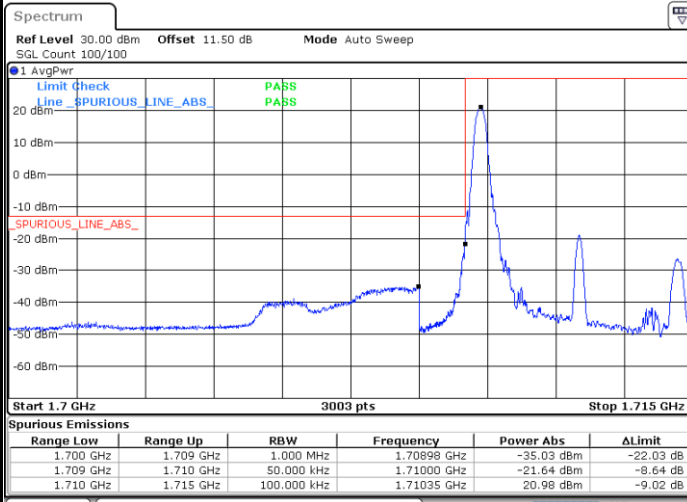


Date: 30.OCT.2021 04:52:37



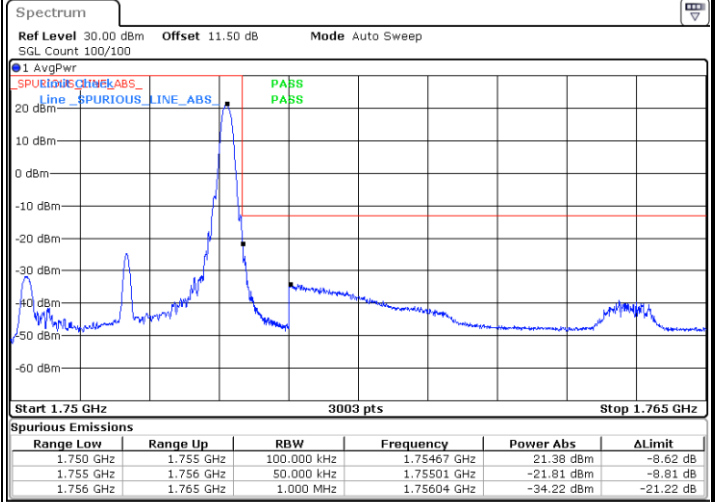
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



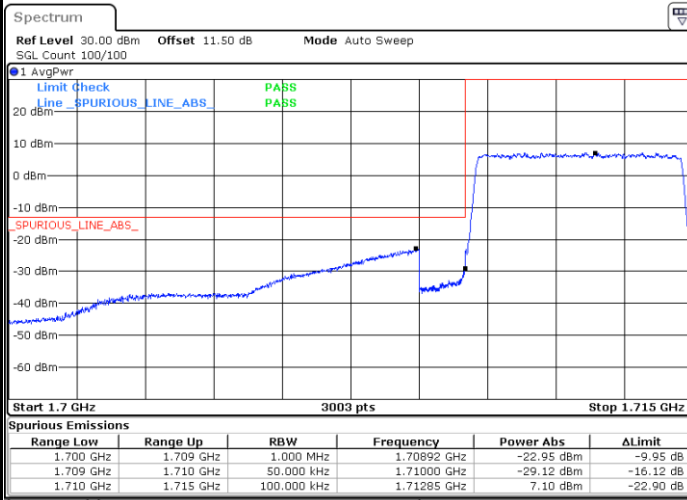
Date: 30.OCT.2021 04:54:29

Highest Band Edge / 1 RB



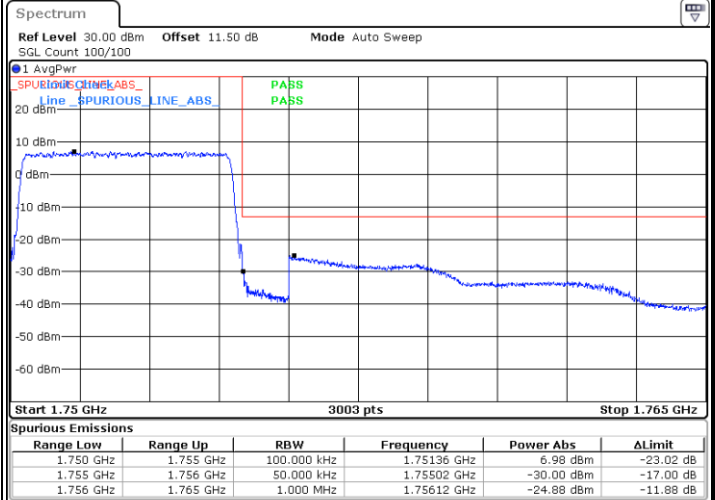
Date: 30.OCT.2021 05:01:00

Lowest Band Edge / Full RB



Date: 30.OCT.2021 04:55:51

Highest Band Edge / Full RB

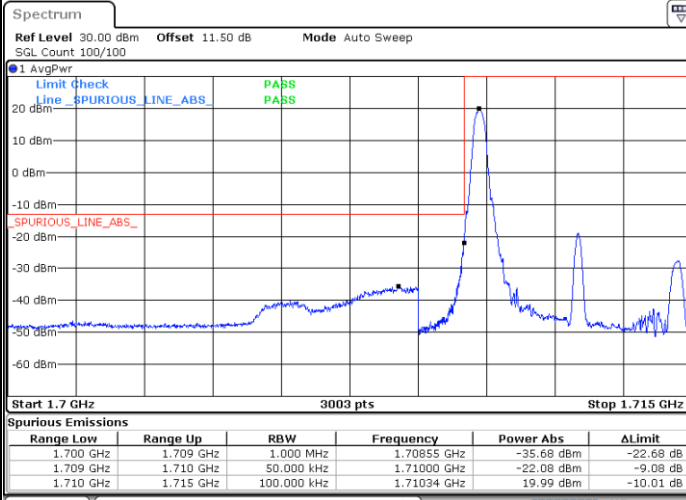


Date: 30.OCT.2021 05:02:22



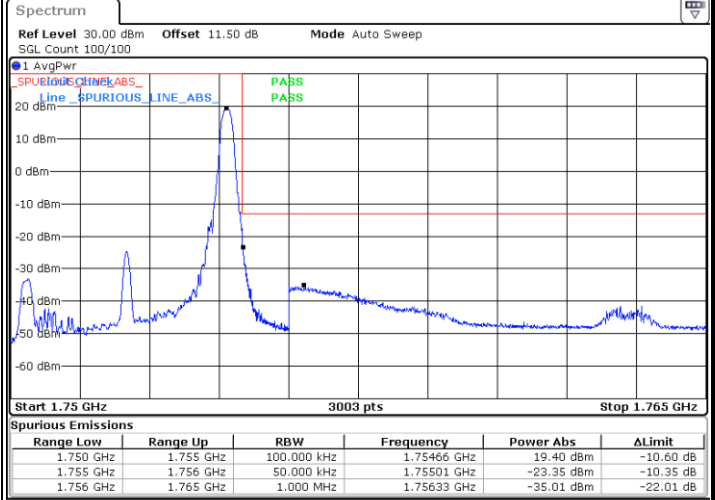
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



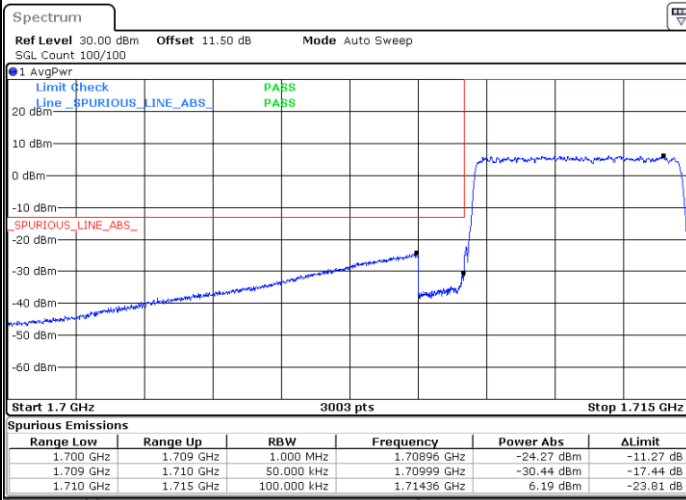
Date: 30.OCT.2021 04:55:10

Highest Band Edge / 1 RB



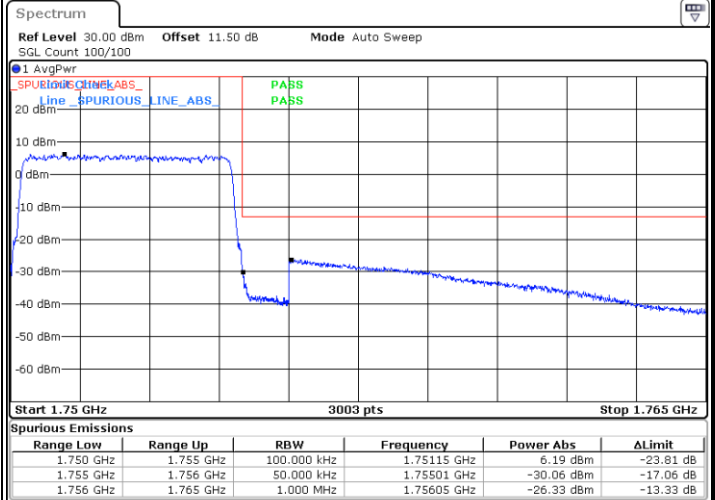
Date: 30.OCT.2021 05:01:41

Lowest Band Edge / Full RB



Date: 30.OCT.2021 04:56:32

Highest Band Edge / Full RB

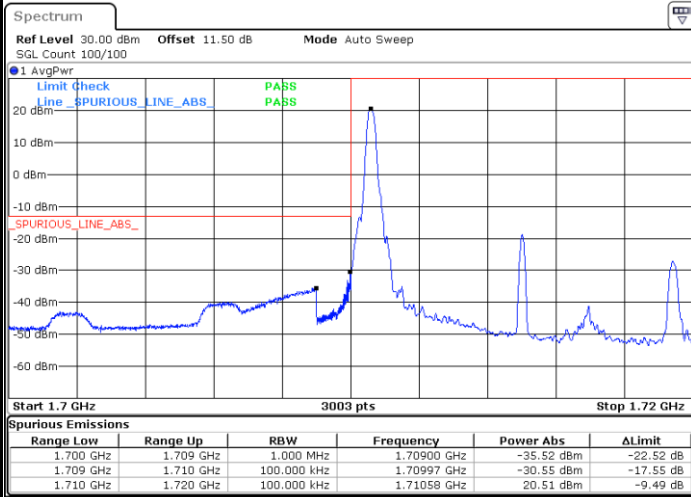


Date: 30.OCT.2021 05:03:03



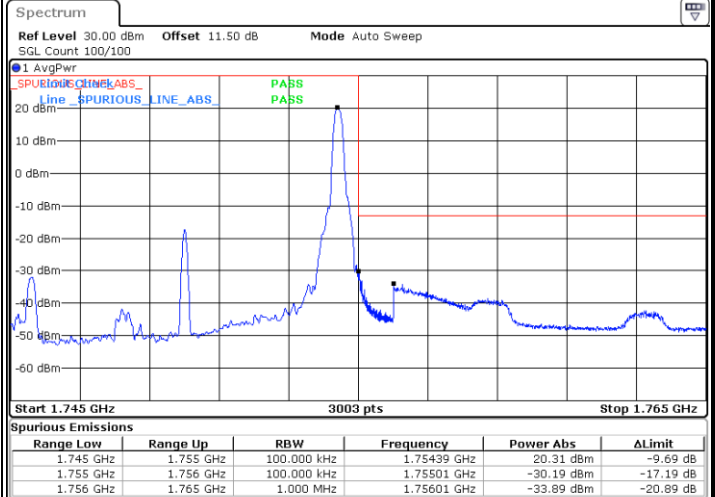
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



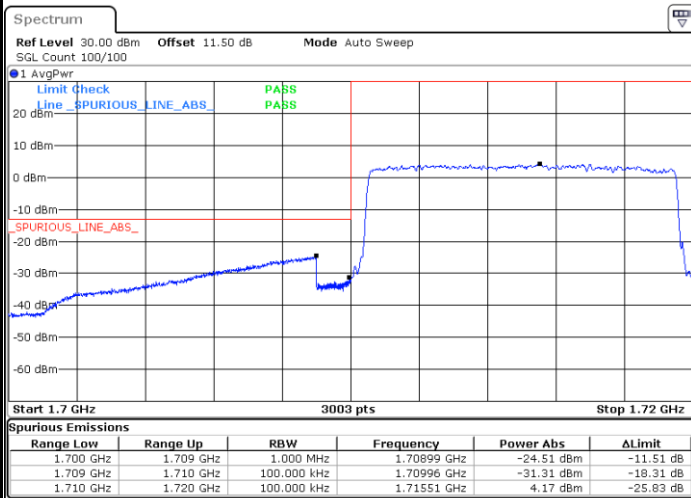
Date: 30.OCT.2021 05:04:55

Highest Band Edge / 1 RB



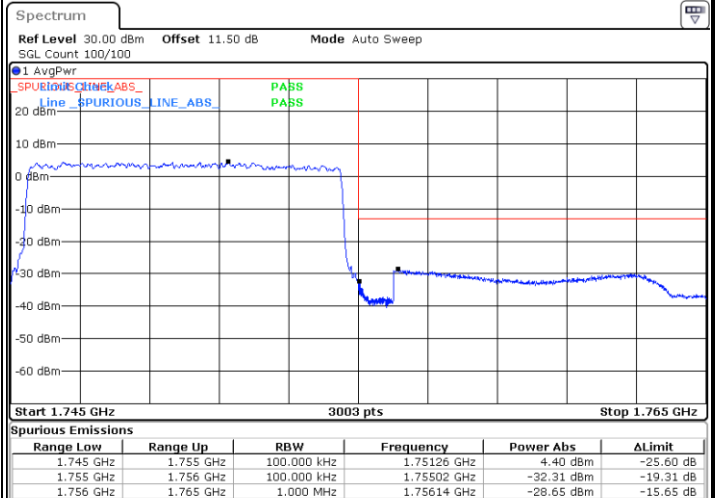
Date: 30.OCT.2021 05:10:02

Lowest Band Edge / Full RB



Date: 30.OCT.2021 05:06:17

Highest Band Edge / Full RB



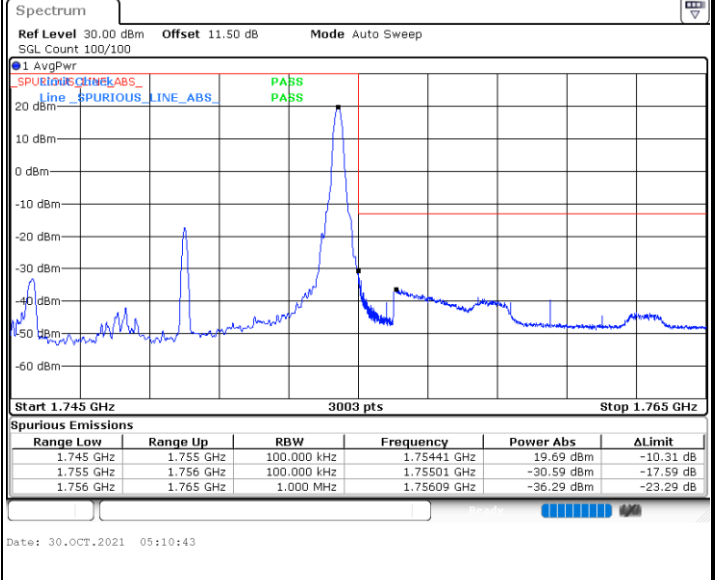
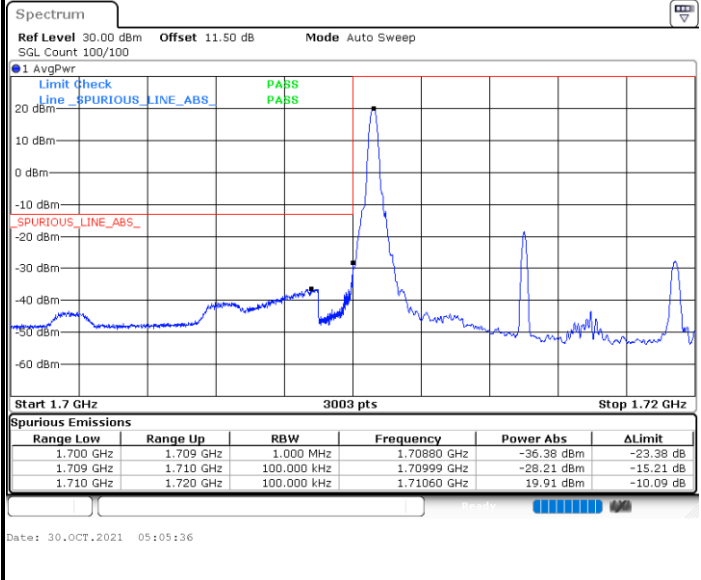
Date: 30.OCT.2021 05:11:24



LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

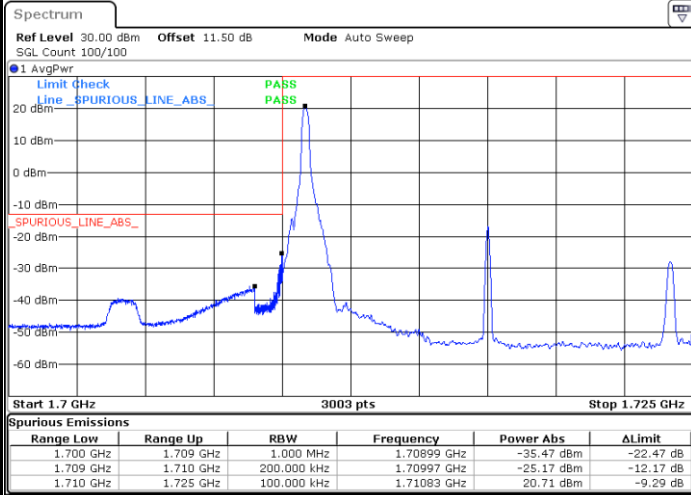
Highest Band Edge / 1 RB





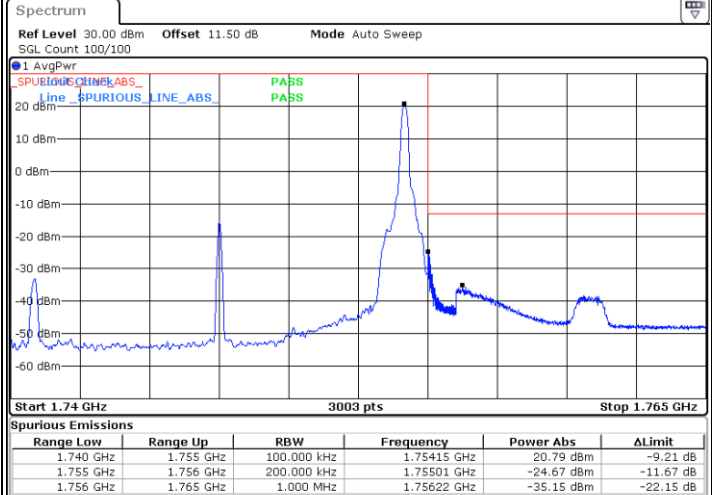
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



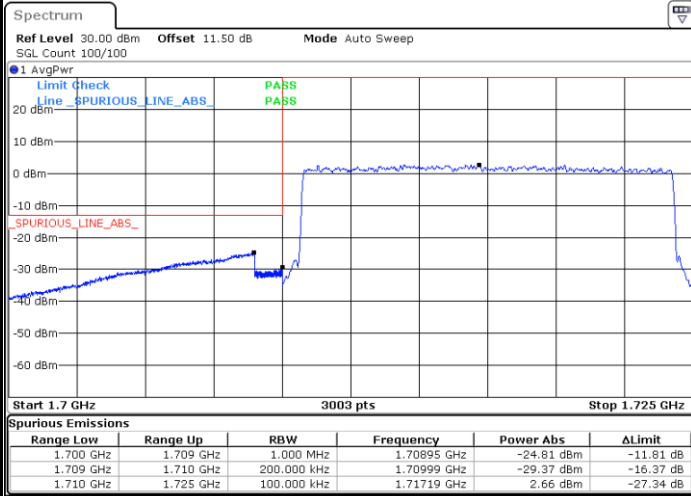
Date: 30.OCT.2021 05:13:17

Highest Band Edge / 1 RB



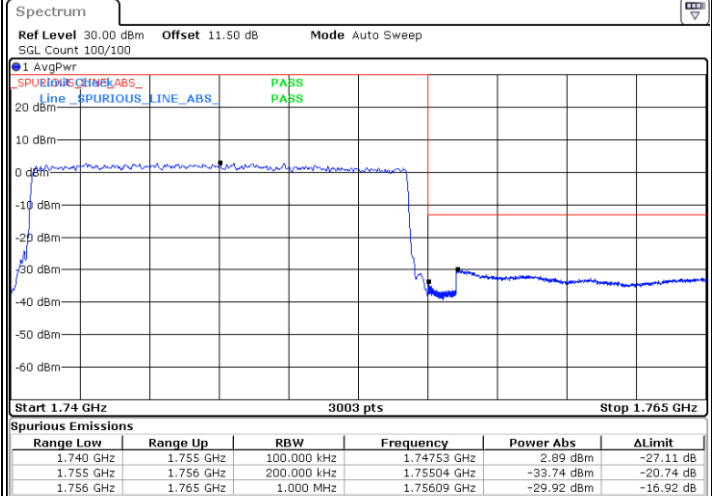
Date: 30.OCT.2021 05:18:23

Lowest Band Edge / Full RB



Date: 30.OCT.2021 05:14:39

Highest Band Edge / Full RB



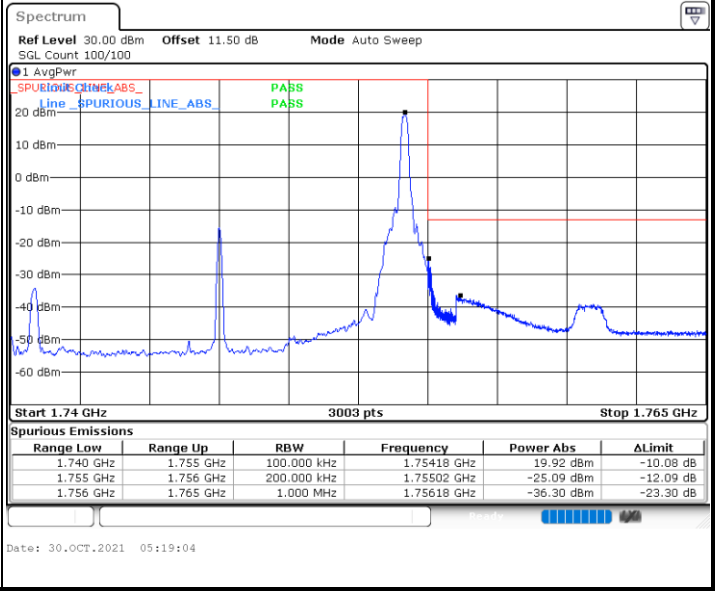
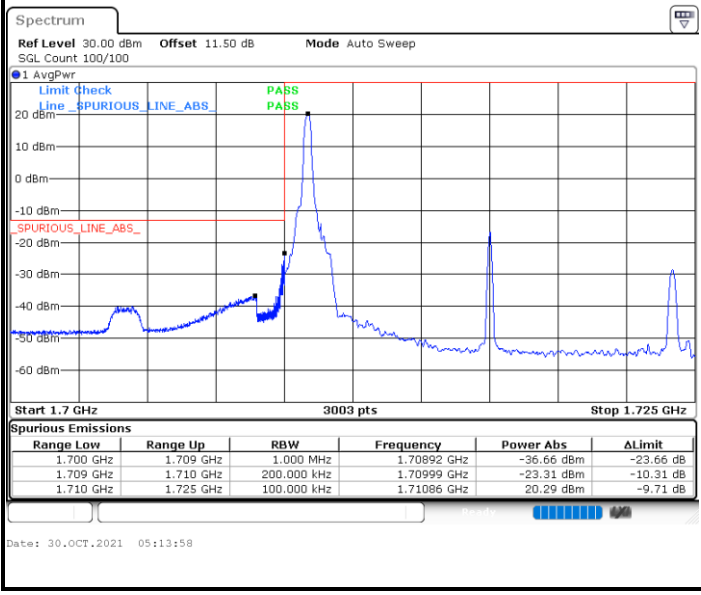
Date: 30.OCT.2021 05:19:45



LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

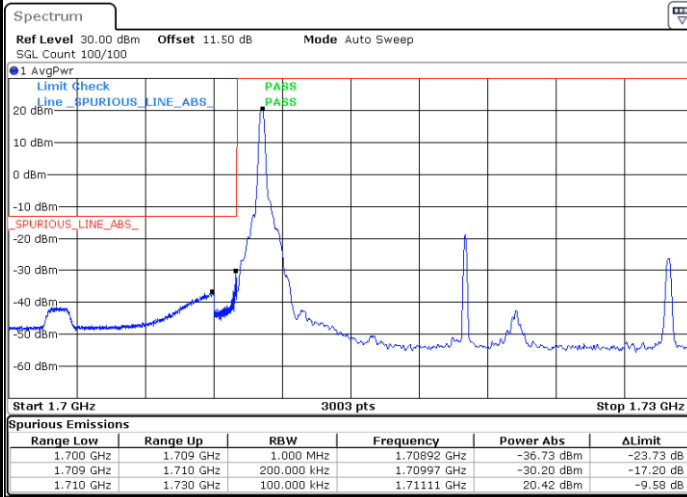
Highest Band Edge / 1 RB





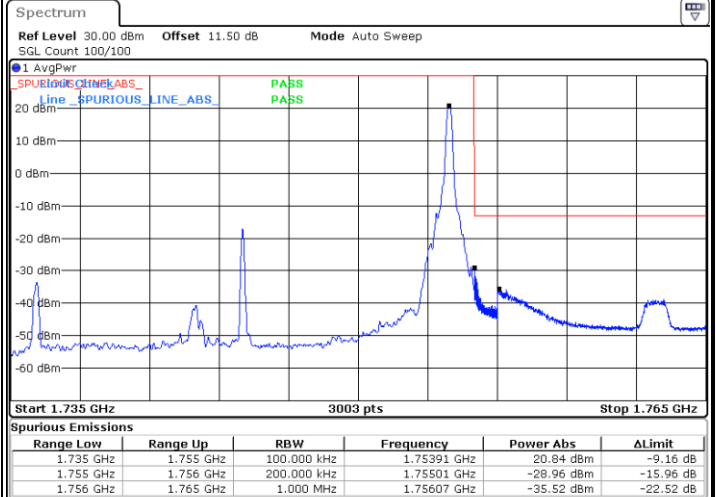
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



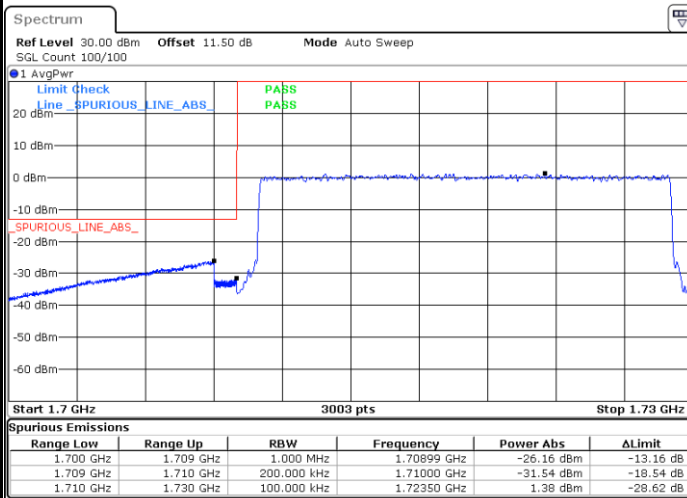
Date: 30.OCT.2021 05:21:38

Highest Band Edge / 1 RB



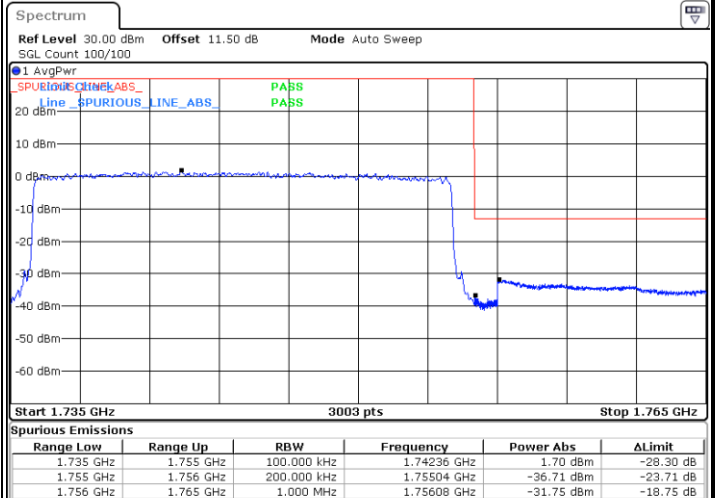
Date: 30.OCT.2021 05:26:45

Lowest Band Edge / Full RB



Date: 30.OCT.2021 05:22:59

Highest Band Edge / Full RB



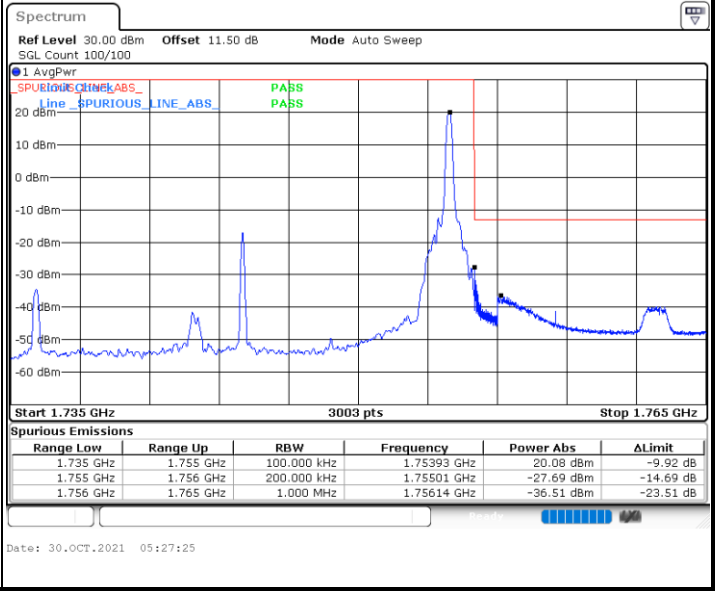
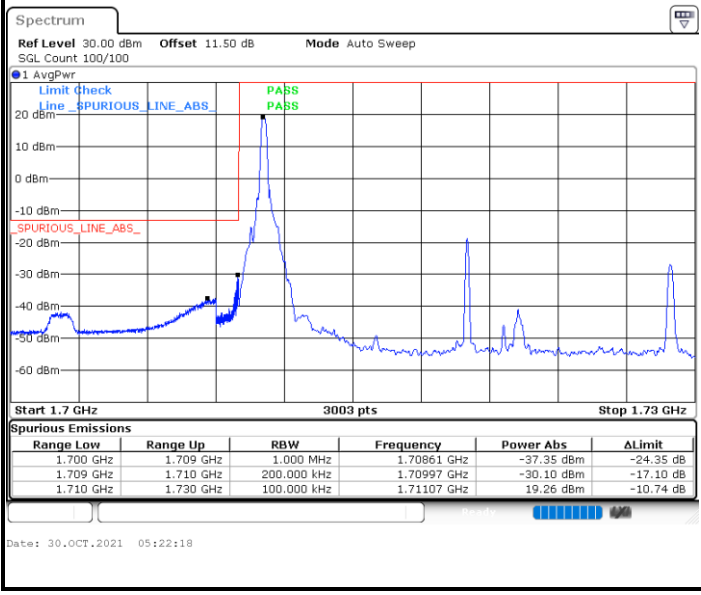
Date: 30.OCT.2021 05:28:07



LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



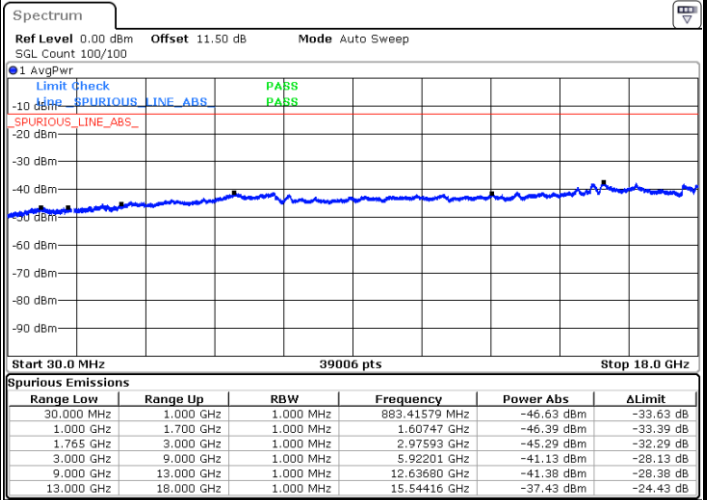
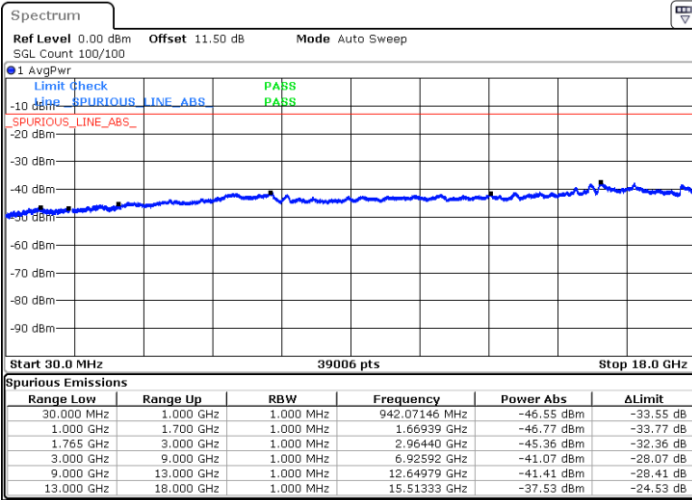


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

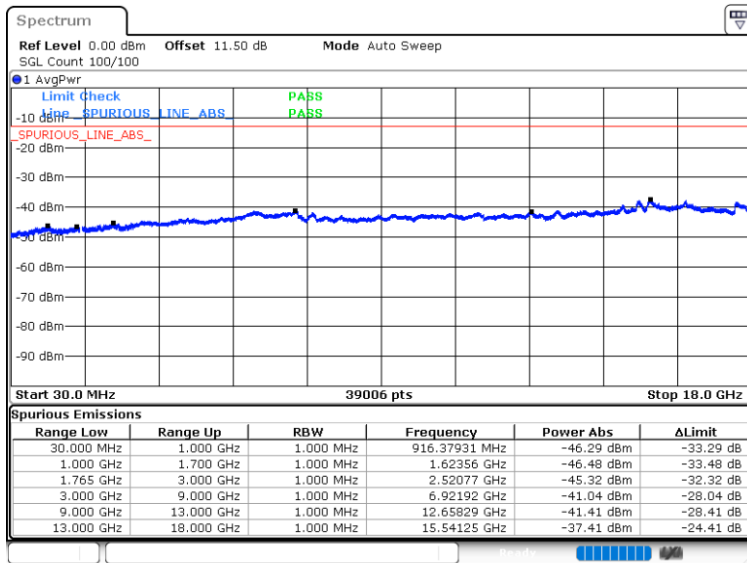
Middle Channel / QPSK



Date: 30.OCT.2021 04:36:50

Date: 30.OCT.2021 04:39:26

Highest Channel / QPSK



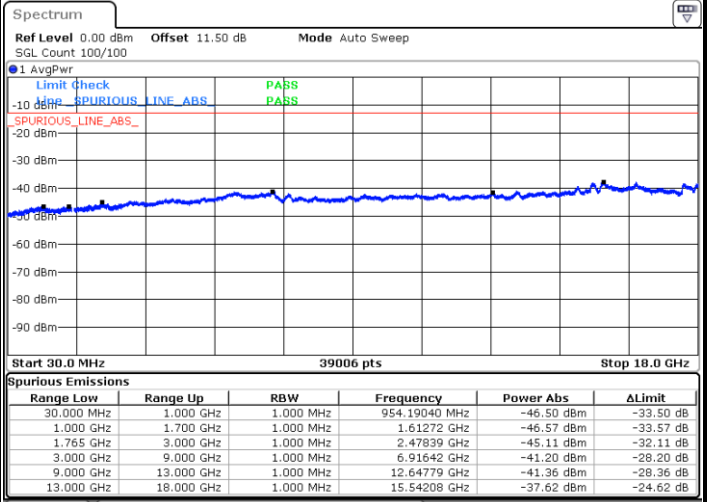
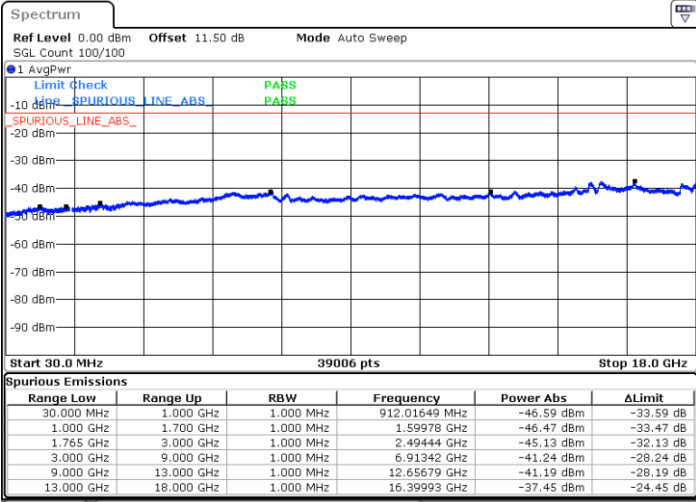
Date: 30.OCT.2021 04:43:21



LTE Band 4 / 3MHz

Lowest Channel / QPSK

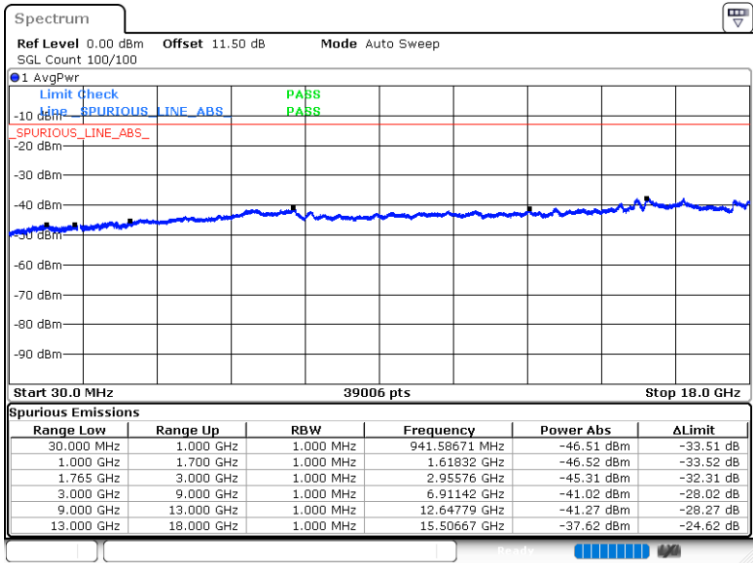
Middle Channel / QPSK



Date: 30.OCT.2021 04:47:17

Date: 30.OCT.2021 04:49:53

Highest Channel / QPSK



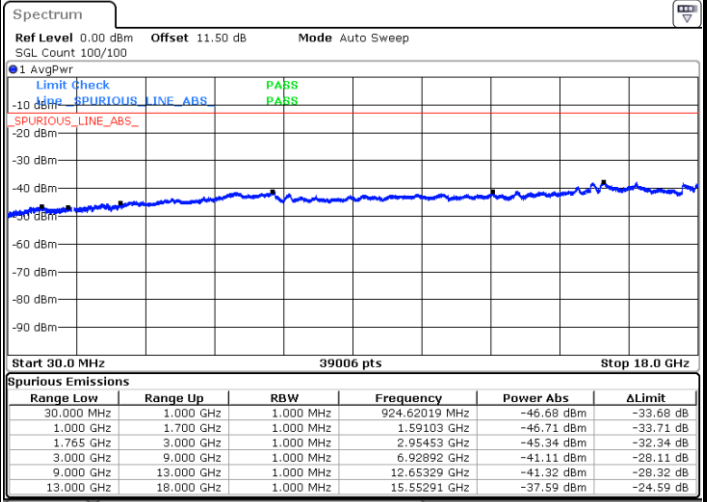
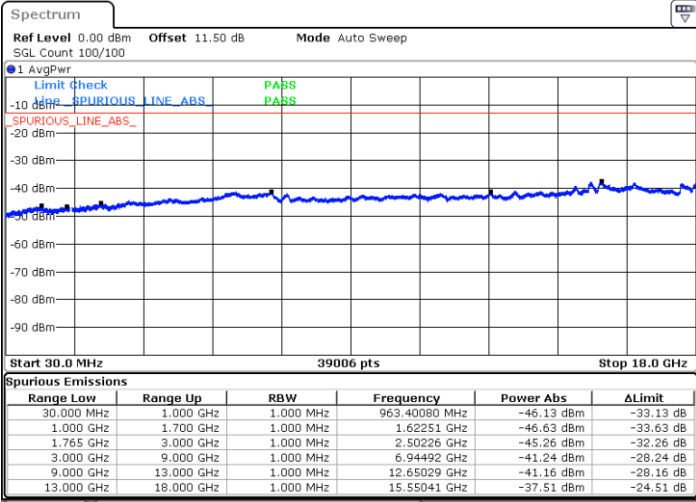
Date: 30.OCT.2021 04:53:48



LTE Band 4 / 5MHz

Lowest Channel / QPSK

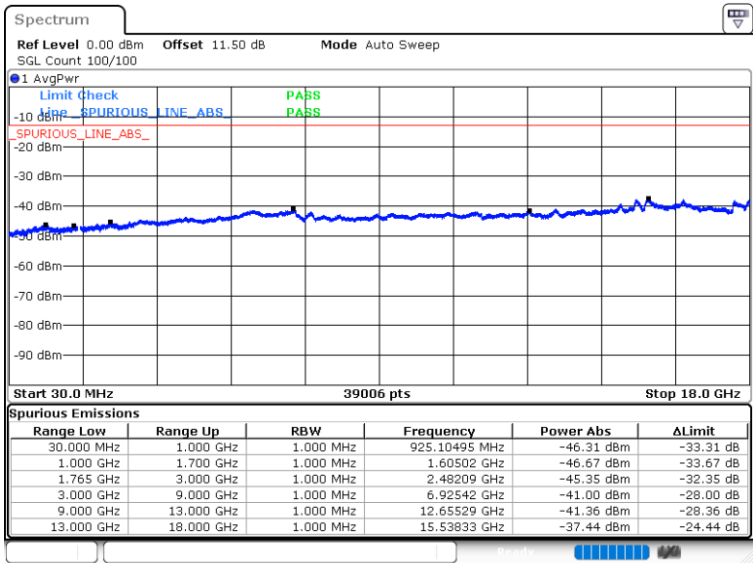
Middle Channel / QPSK



Date: 30.OCT.2021 04:57:42

Date: 30.OCT.2021 05:00:18

Highest Channel / QPSK



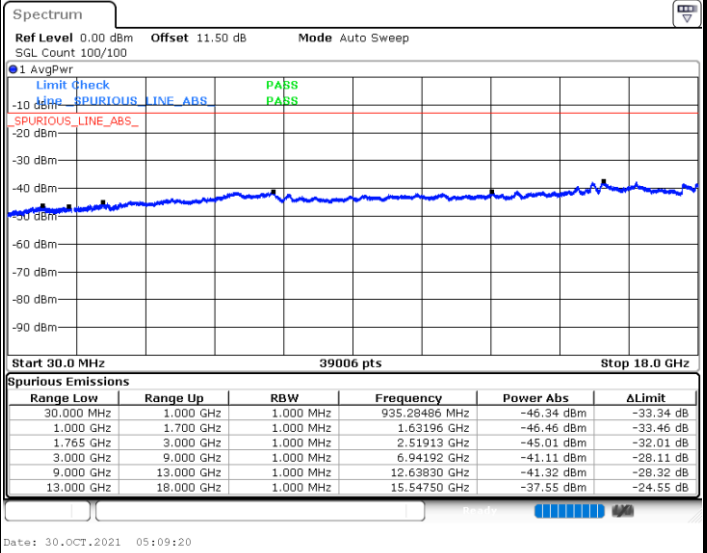
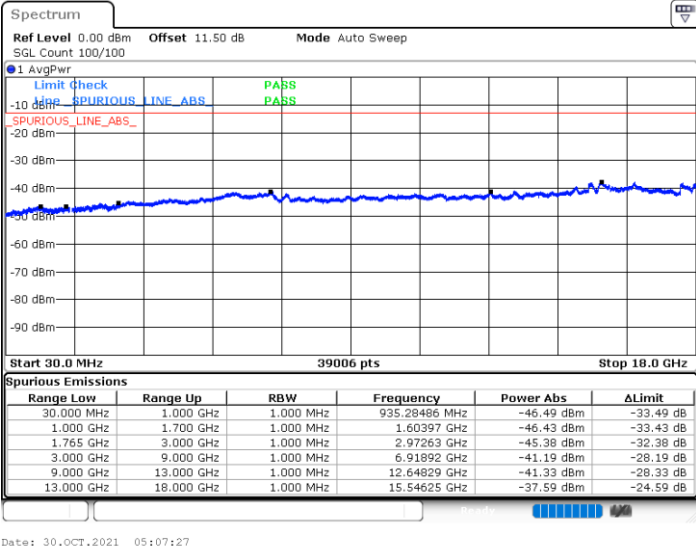
Date: 30.OCT.2021 05:04:13



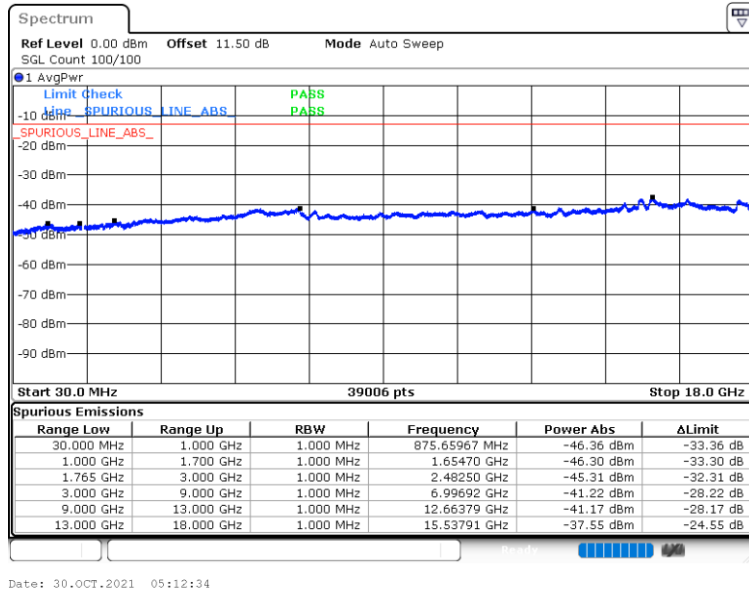
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

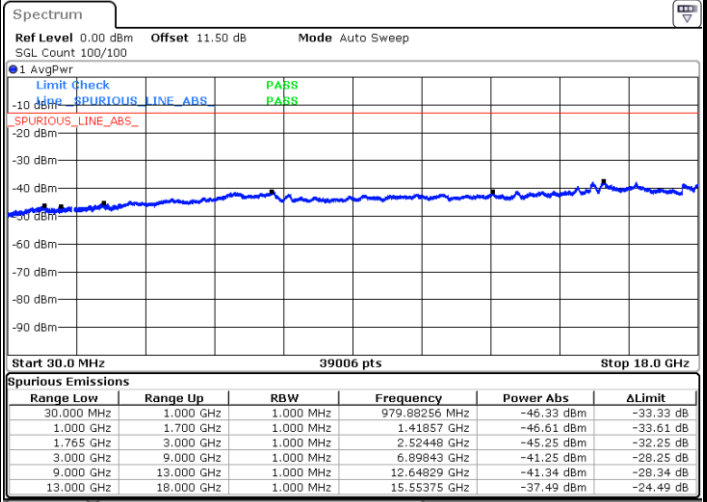
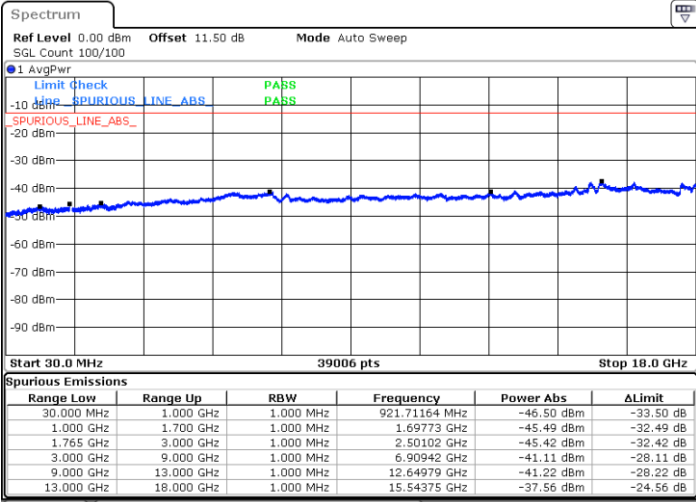




LTE Band 4 / 15MHz

Lowest Channel / QPSK

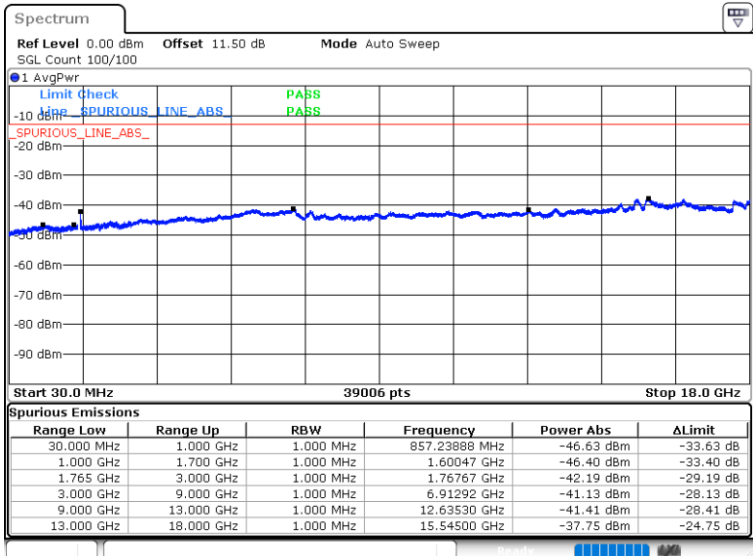
Middle Channel / QPSK



Date: 30.OCT.2021 05:15:49

Date: 30.OCT.2021 05:17:42

Highest Channel / QPSK



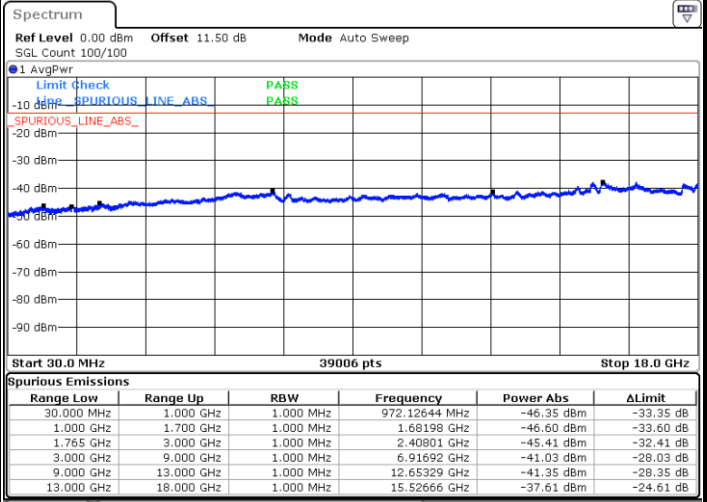
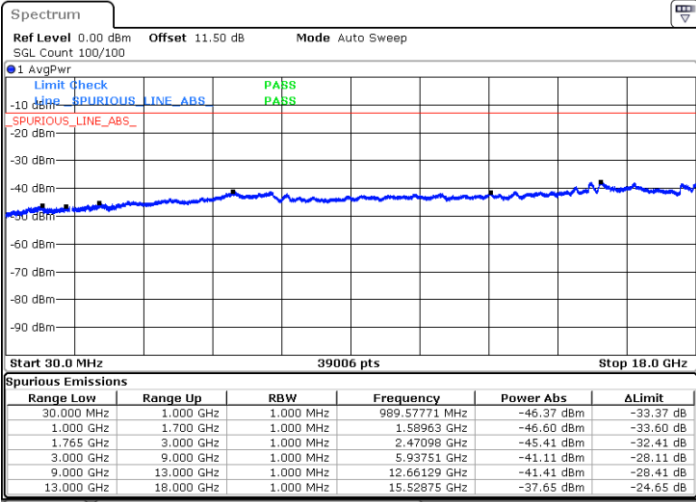
Date: 30.OCT.2021 05:20:56



LTE Band 4 / 20MHz

Lowest Channel / QPSK

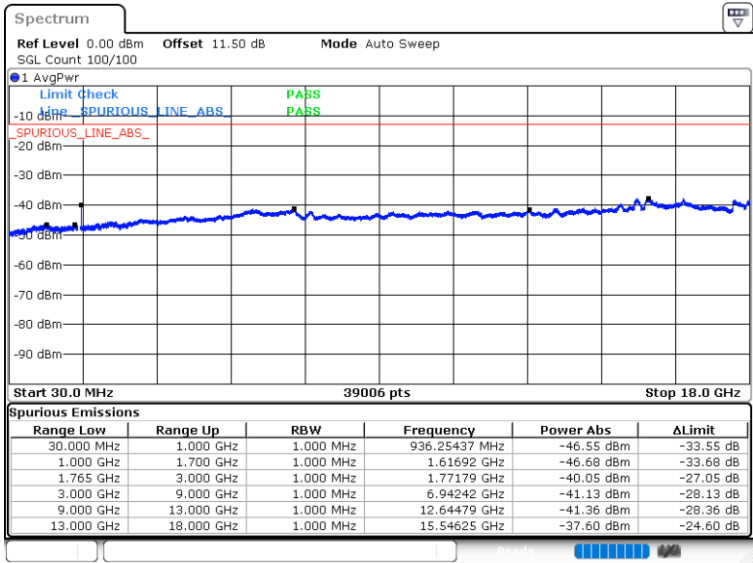
Middle Channel / QPSK



Date: 30.OCT.2021 05:24:10

Date: 30.OCT.2021 05:26:03

Highest Channel / QPSK



Date: 30.OCT.2021 05:29:17



Frequency Stability

| Test Conditions | | LTE Band 4 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0023 | PASS |
| 40 | Normal Voltage | 0.0029 | |
| 30 | Normal Voltage | 0.0051 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0025 | |
| 0 | Normal Voltage | 0.0029 | |
| -10 | Normal Voltage | 0.0037 | |
| -20 | Normal Voltage | 0.0031 | |
| -30 | Normal Voltage | 0.0012 | |
| 20 | Maximum Voltage | 0.0044 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0039 | |

Note:

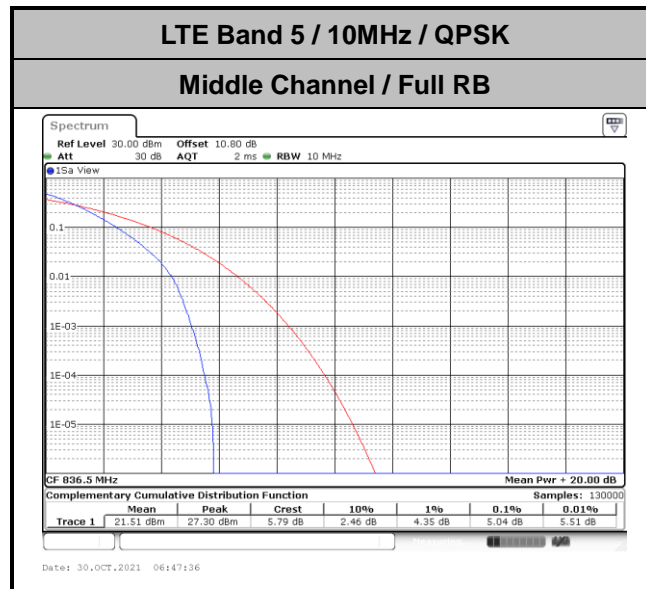
1. Normal Voltage =12.00 V. ; Battery End Point (BEP) =8.00 V. ; Maximum Voltage =40.00 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

| | | |
|-----------|--------------------|-------------|
| Mode | LTE Band 5 / 10MHz | |
| Mod. | QPSK | Limit: 13dB |
| RB Size | Full RB | Result |
| Middle CH | 5.04 | PASS |





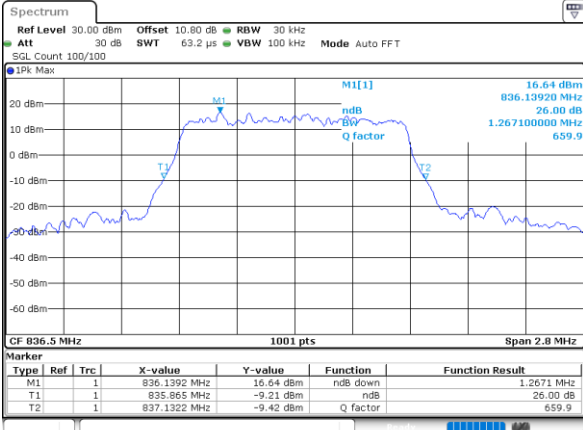
26dB Bandwidth

| Mode | LTE Band 5 : 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 | 1.27 | 1.29 | 3.06 | 3.00 | 4.99 | 4.98 | 9.73 | - | - | - | - | - |
| Mode | LTE Band 5 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM |
| Middle CH | - | - | - | - | - | - | - | - | - | - | - | - |



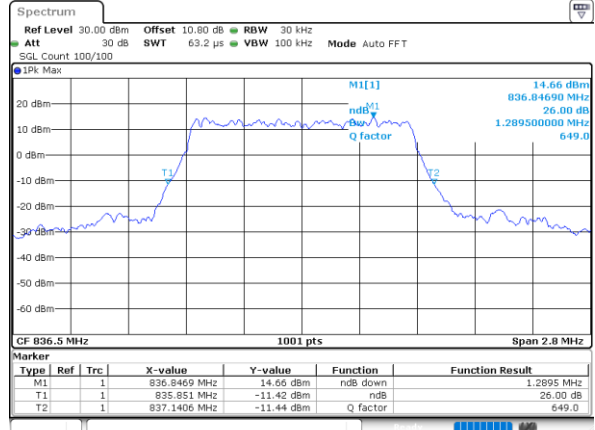
LTE Band 5

Middle Channel / 1.4MHz / QPSK



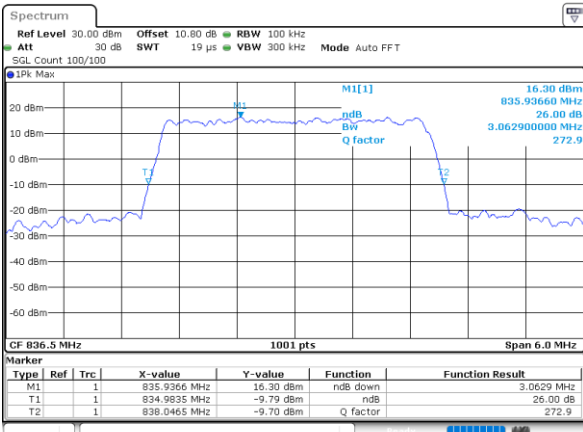
Date: 30.OCT.2021 05:14:16

Middle Channel / 1.4MHz / 16QAM



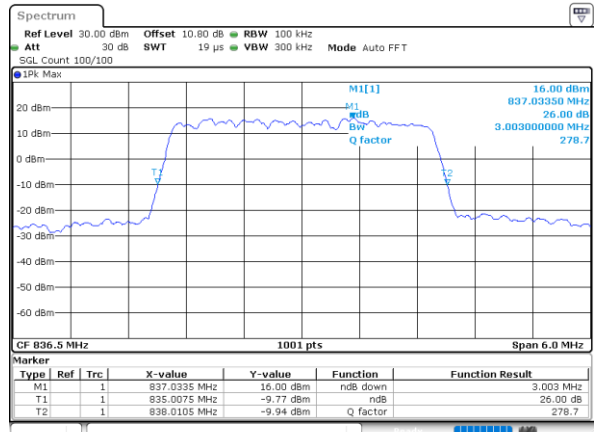
Date: 30.OCT.2021 05:14:37

Middle Channel / 3MHz / QPSK



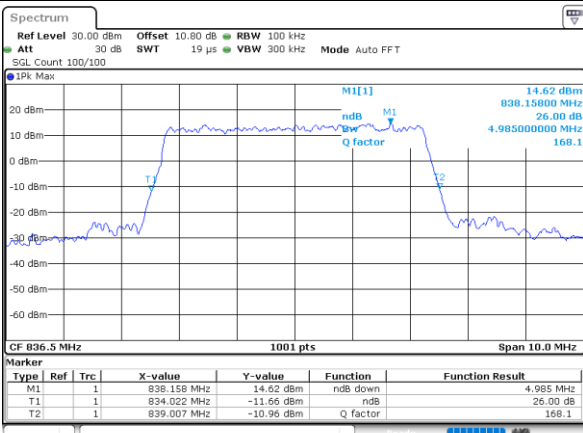
Date: 30.OCT.2021 06:02:02

Middle Channel / 3MHz / 16QAM



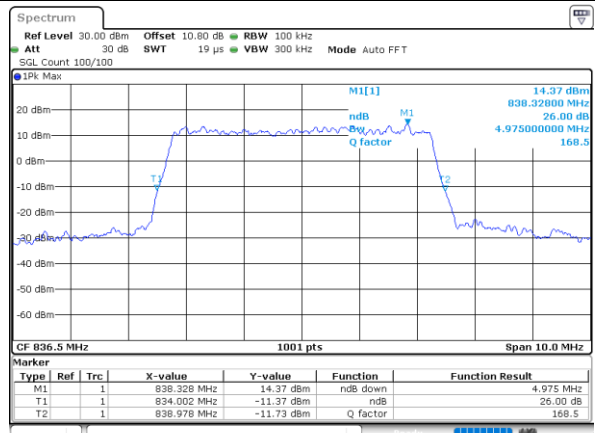
Date: 30.OCT.2021 06:02:23

Middle Channel / 5MHz / QPSK

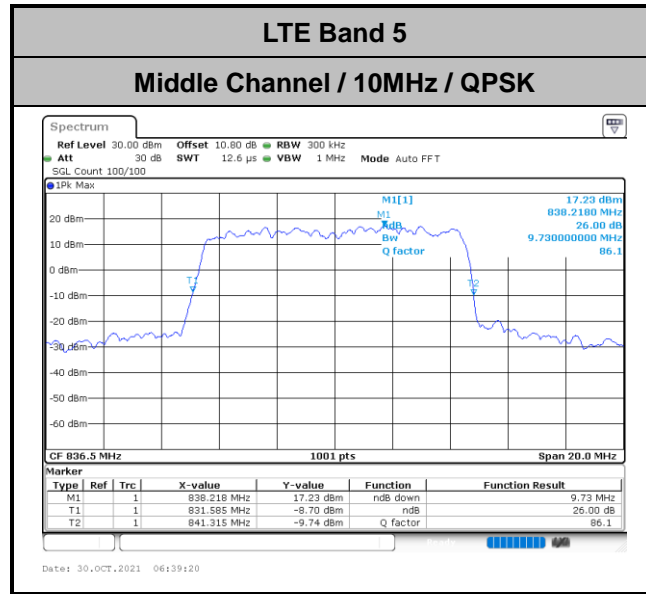


Date: 30.OCT.2021 06:21:47

Middle Channel / 5MHz / 16QAM



Date: 30.OCT.2021 06:22:08





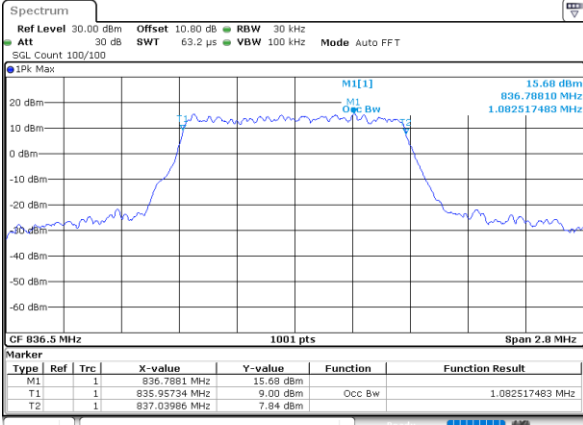
Occupied Bandwidth

| Mode | LTE Band 5 : 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 | 1.08 | 1.10 | 2.72 | 2.71 | 4.49 | 4.49 | 9.03 | - | - | - | - | - |
| Mode | LTE Band 5 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM | 64QAM | 256 QAM |
| Middle CH | - | - | - | - | - | - | - | - | - | - | - | - |



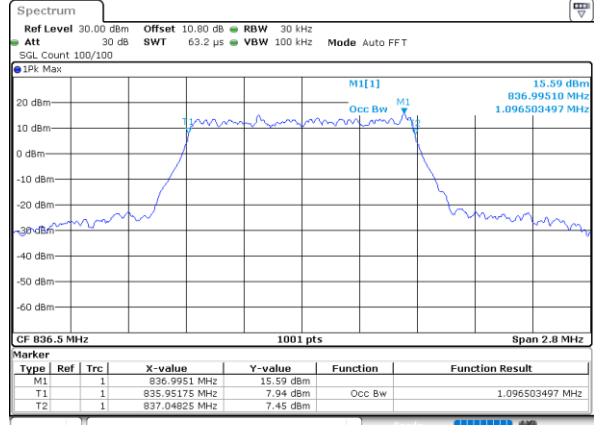
LTE Band 5

Middle Channel / 1.4MHz / QPSK



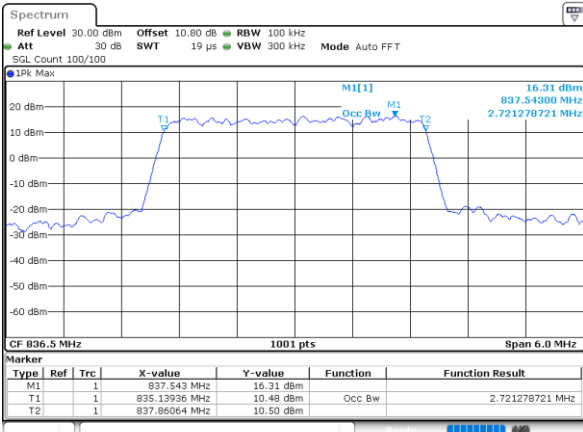
Date: 30.OCT.2021 05:41:34

Middle Channel / 1.4MHz / 16QAM



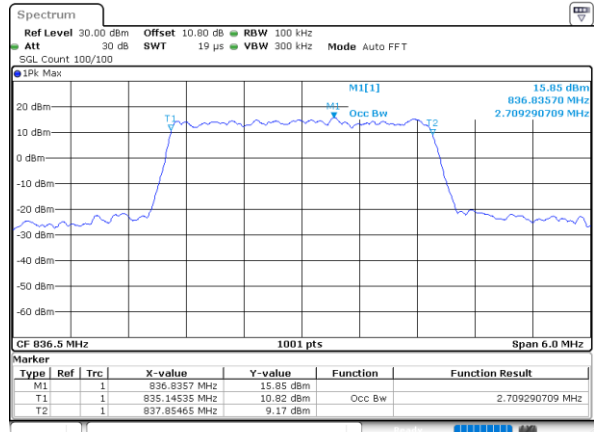
Date: 30.OCT.2021 05:41:55

Middle Channel / 3MHz / QPSK



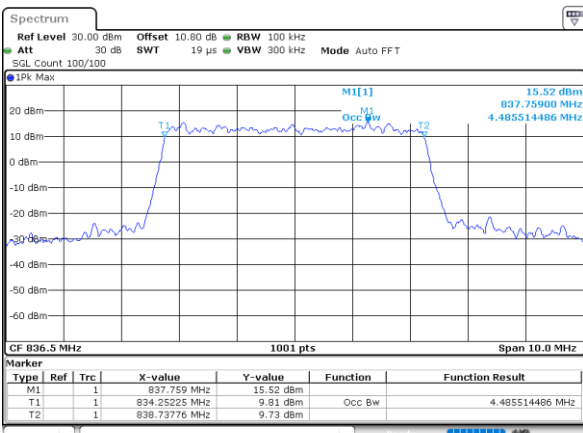
Date: 30.OCT.2021 06:01:20

Middle Channel / 3MHz / 16QAM



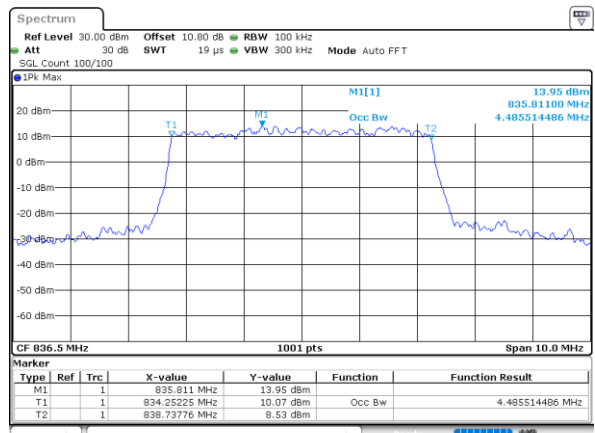
Date: 30.OCT.2021 06:01:41

Middle Channel / 5MHz / QPSK

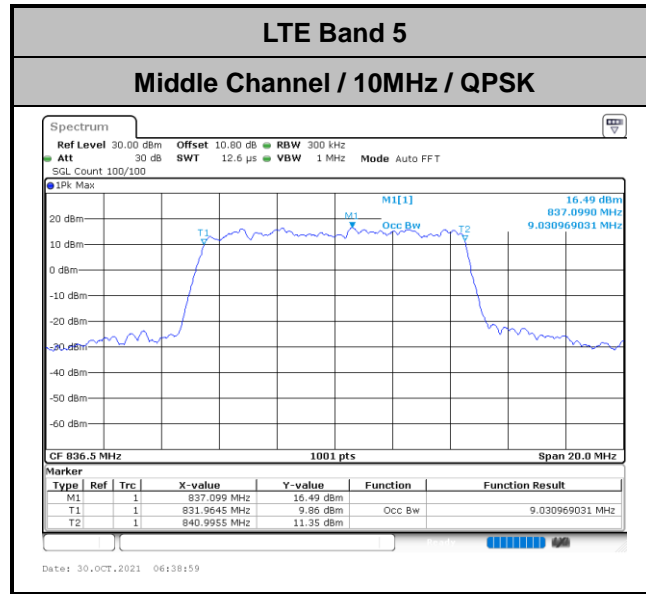


Date: 30.OCT.2021 06:21:05

Middle Channel / 5MHz / 16QAM



Date: 30.OCT.2021 06:21:26

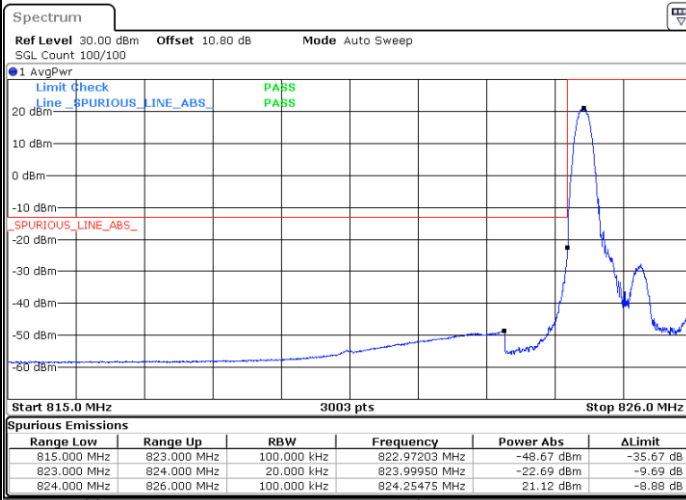




Conducted Band Edge

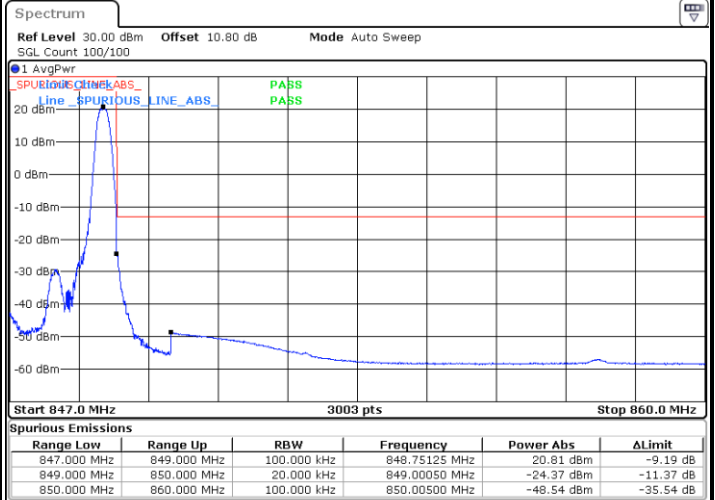
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



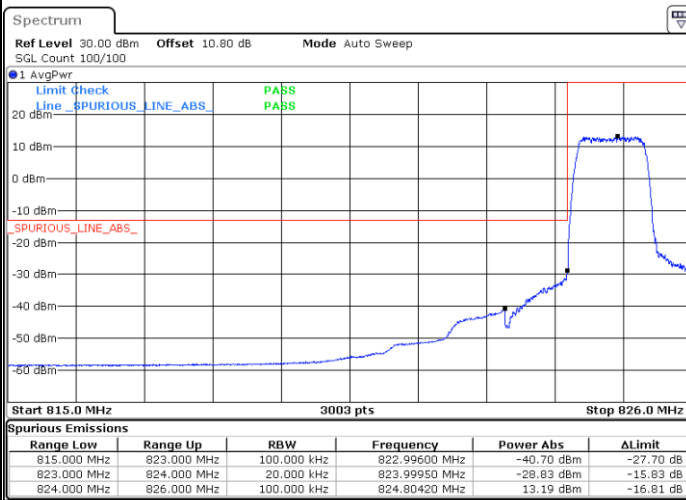
Date: 30.OCT.2021 05:34:28

Highest Band Edge / 1RB



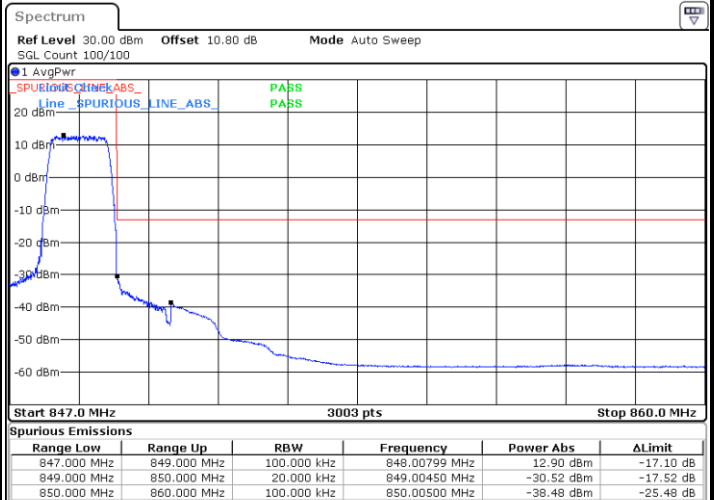
Date: 30.OCT.2021 05:49:20

Lowest Band Edge / Full RB



Date: 30.OCT.2021 05:38:10

Highest Band Edge / Full RB

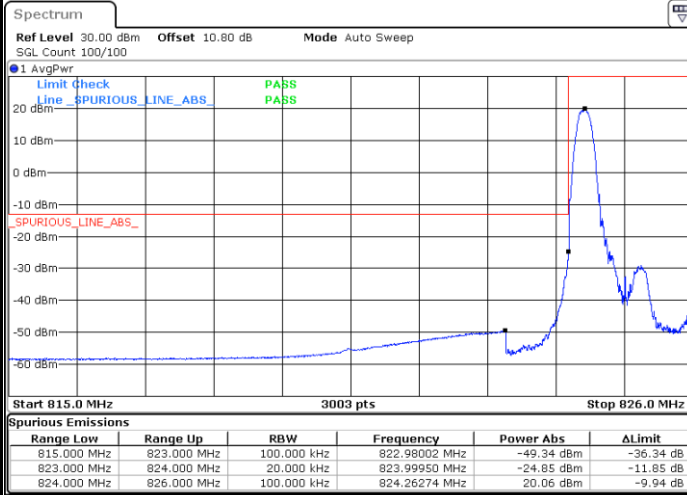


Date: 30.OCT.2021 05:45:38



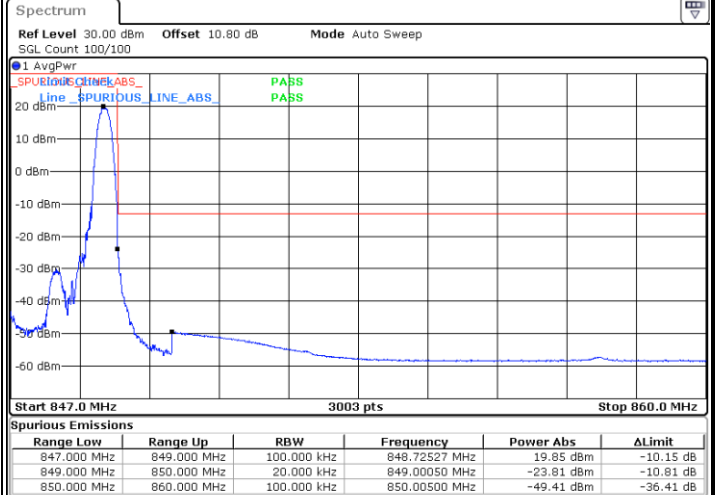
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



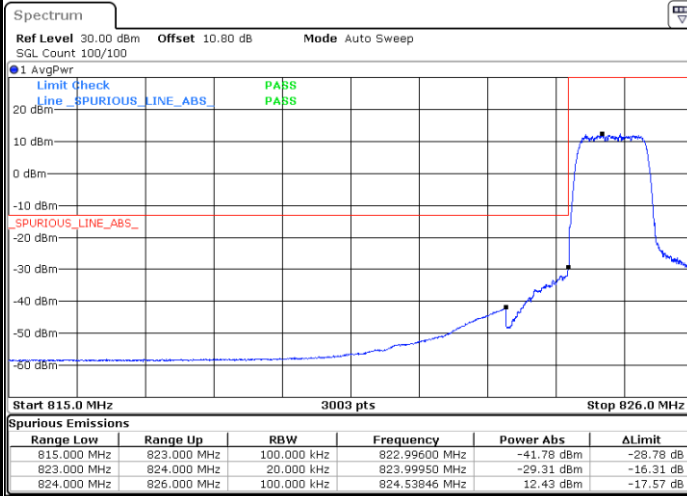
Date: 30.OCT.2021 05:36:19

Highest Band Edge / 1 RB



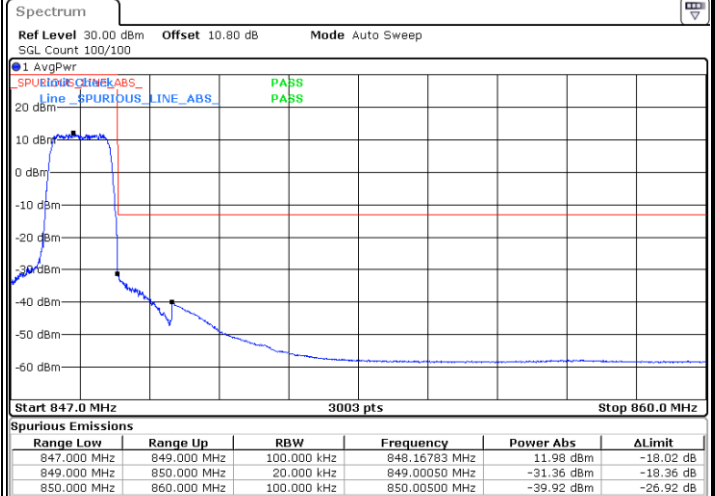
Date: 30.OCT.2021 05:51:11

Lowest Band Edge / Full RB



Date: 30.OCT.2021 05:40:01

Highest Band Edge / Full RB

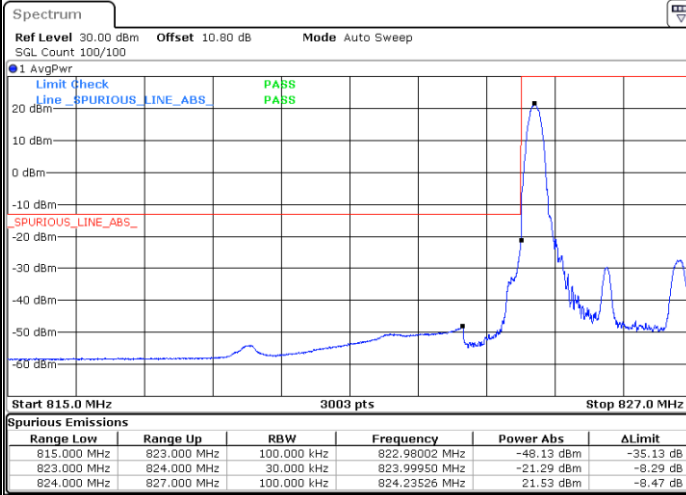


Date: 30.OCT.2021 05:47:29



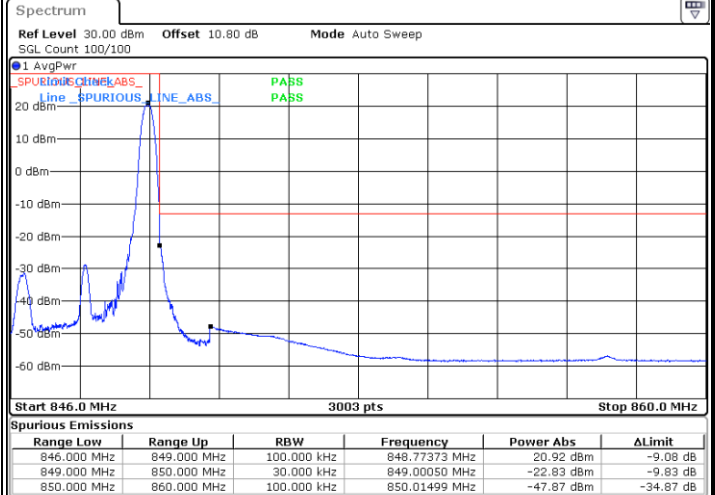
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



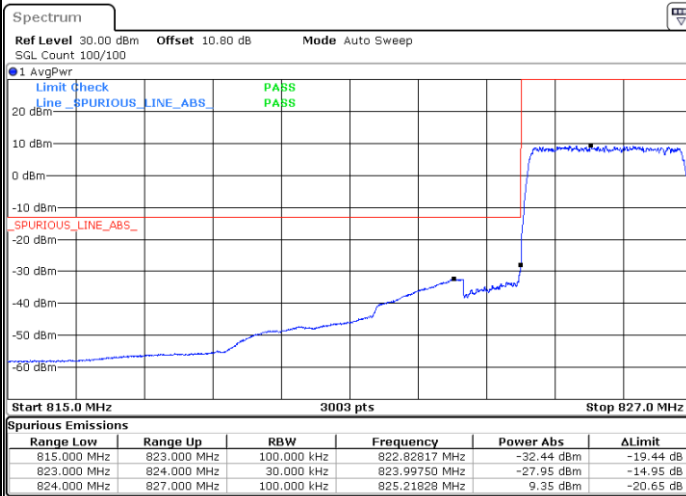
Date: 30.OCT.2021 05:54:14

Highest Band Edge / 1 RB



Date: 30.OCT.2021 06:05:25

Lowest Band Edge / Full RB



Date: 30.OCT.2021 05:57:57

Highest Band Edge / Full RB

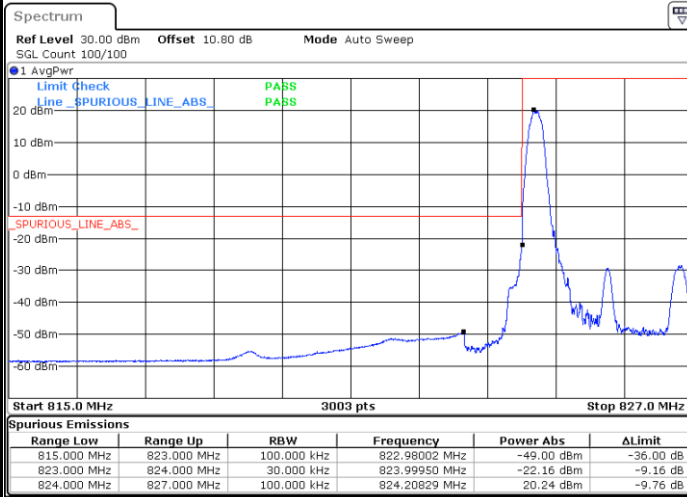


Date: 30.OCT.2021 06:09:07



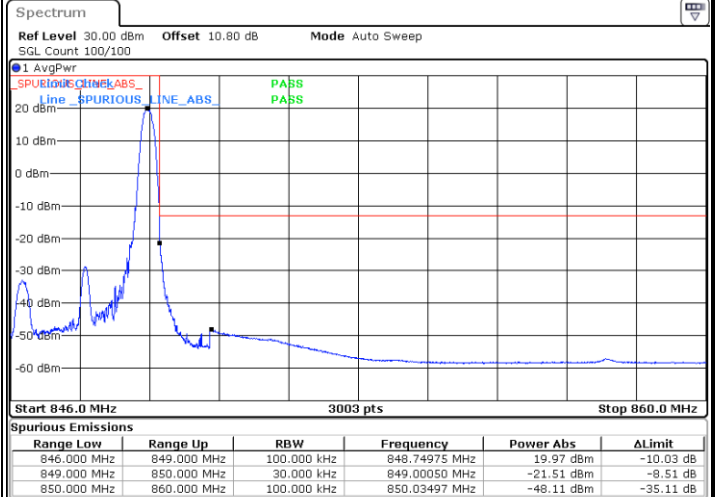
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



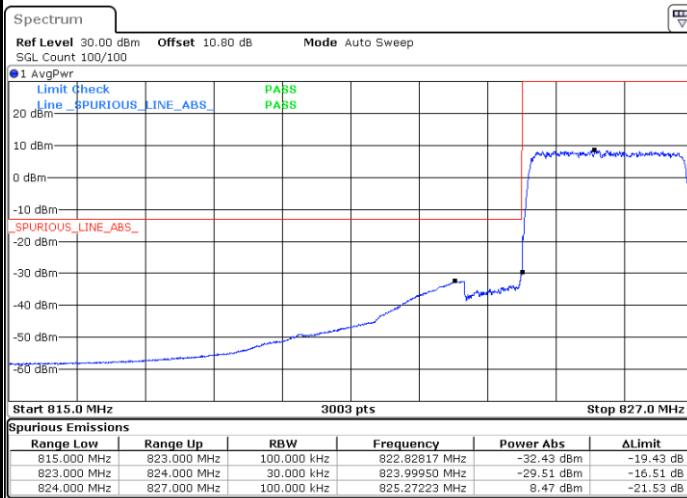
Date: 30.OCT.2021 05:56:05

Highest Band Edge / 1 RB



Date: 30.OCT.2021 06:07:16

Lowest Band Edge / Full RB



Date: 30.OCT.2021 05:59:47

Highest Band Edge / Full RB

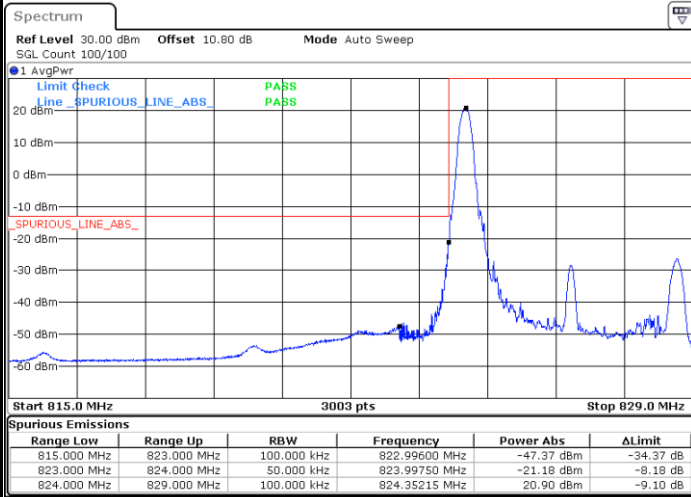


Date: 30.OCT.2021 06:10:58



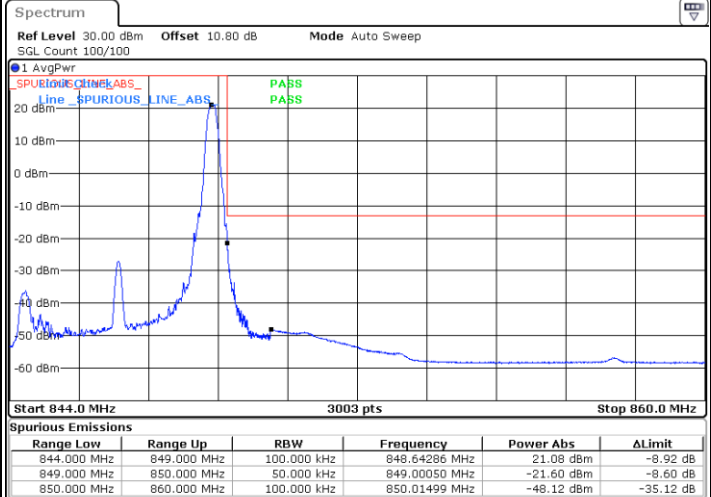
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



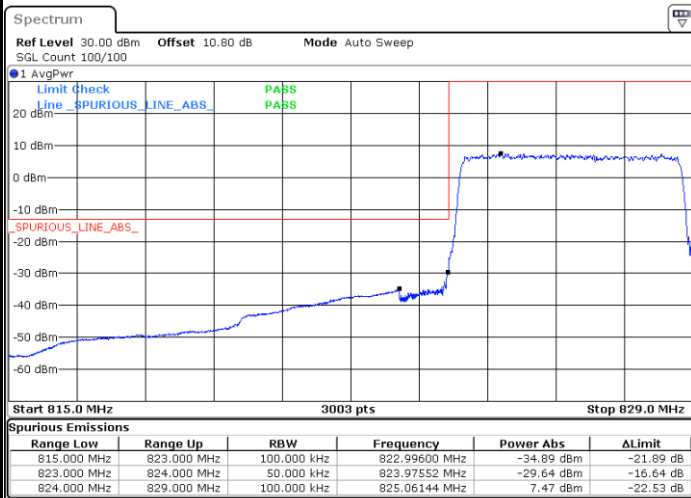
Date: 30.OCT.2021 06:14:00

Highest Band Edge / 1 RB



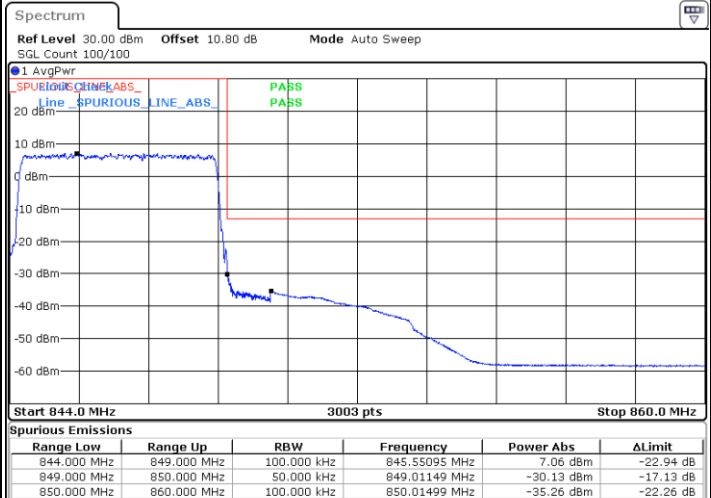
Date: 30.OCT.2021 06:25:09

Lowest Band Edge / Full RB



Date: 30.OCT.2021 06:17:42

Highest Band Edge / Full RB

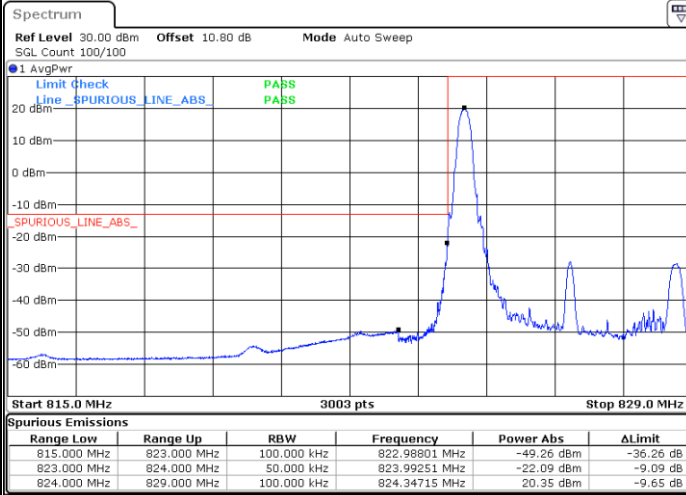


Date: 30.OCT.2021 06:28:50



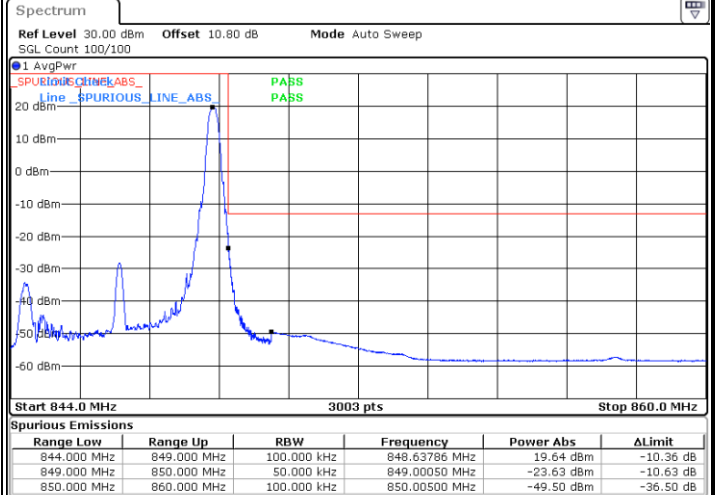
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



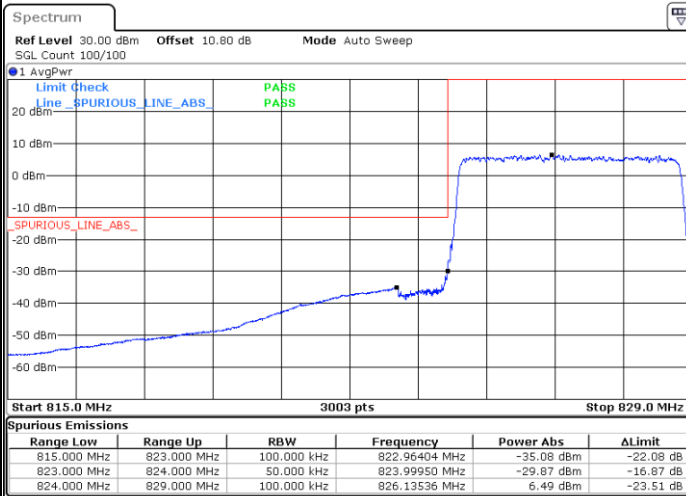
Date: 30.OCT.2021 06:15:50

Highest Band Edge / 1 RB



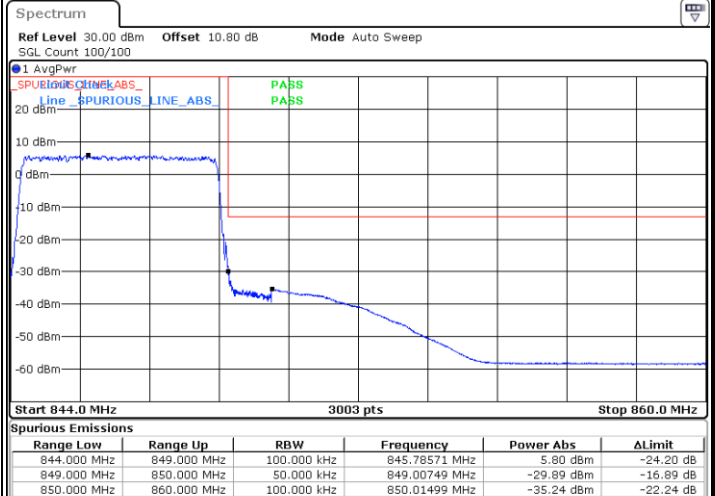
Date: 30.OCT.2021 06:26:59

Lowest Band Edge / Full RB



Date: 30.OCT.2021 06:19:32

Highest Band Edge / Full RB



Date: 30.OCT.2021 06:30:41