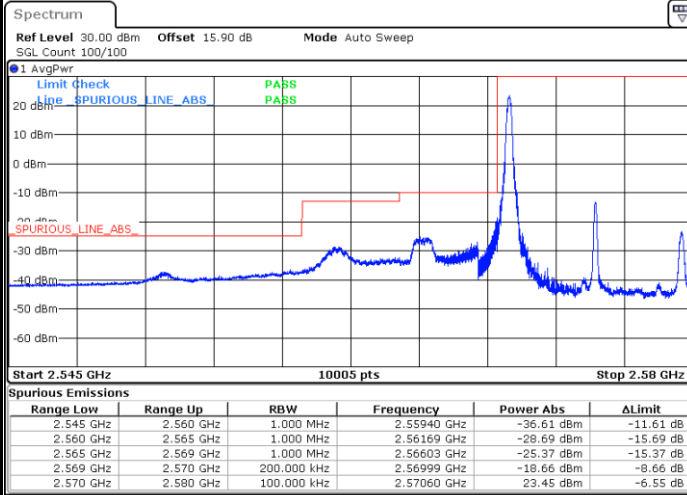




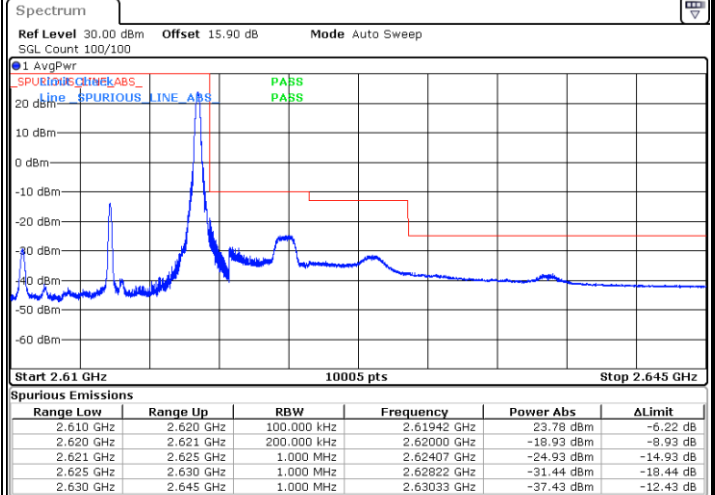
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



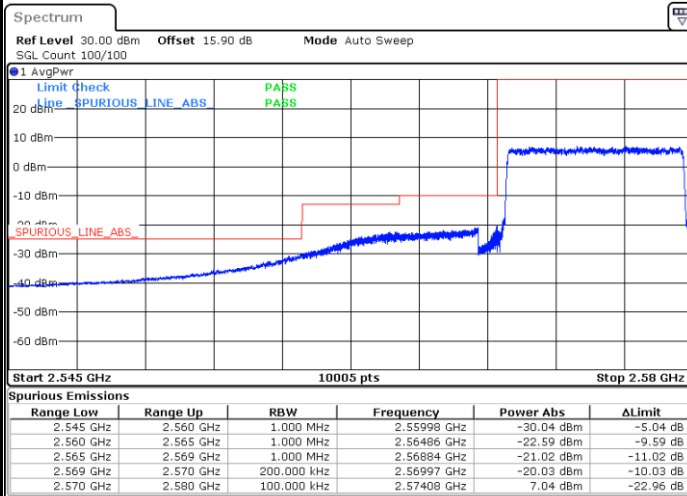
Date: 26.NOV.2021 17:06:24

Highest Band Edge / 1 RB



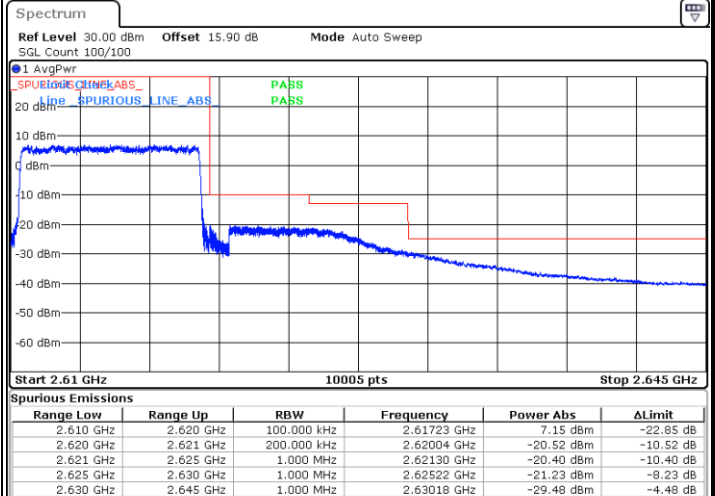
Date: 29.NOV.2021 09:30:11

Lowest Band Edge / Full RB



Date: 26.NOV.2021 17:07:44

Highest Band Edge / Full RB

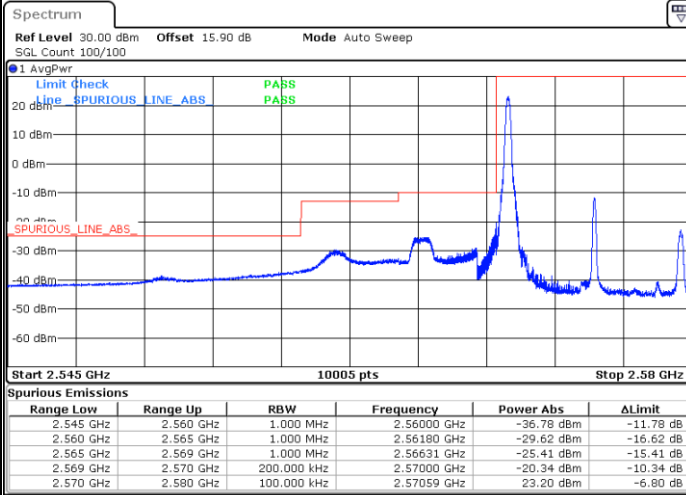


Date: 29.NOV.2021 09:28:50



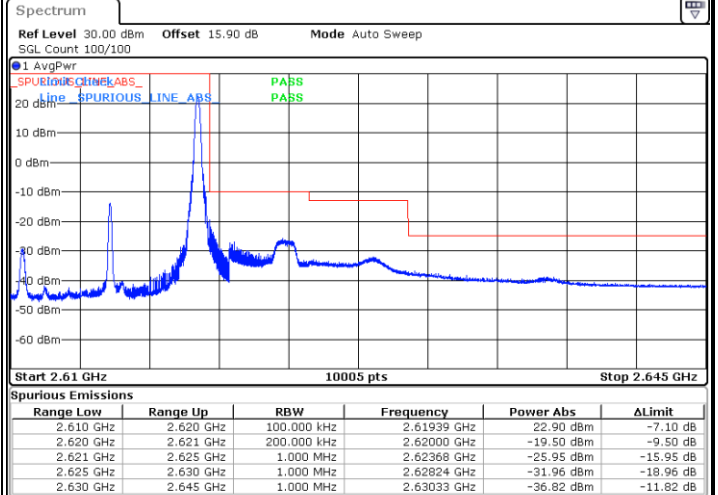
LTE Band 38 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



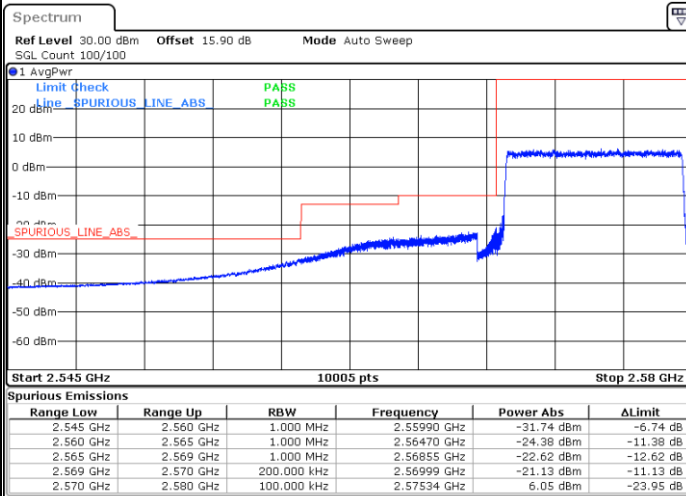
Date: 26.NOV.2021 17:03:02

Highest Band Edge / 1 RB



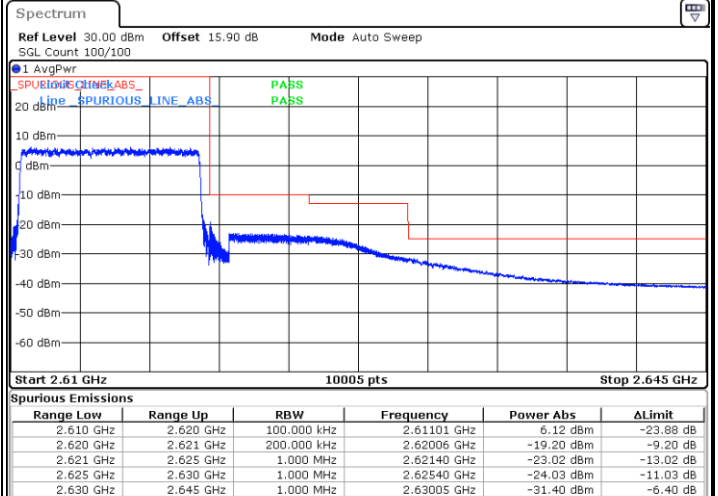
Date: 29.NOV.2021 09:31:31

Lowest Band Edge / Full RB



Date: 26.NOV.2021 17:03:43

Highest Band Edge / Full RB

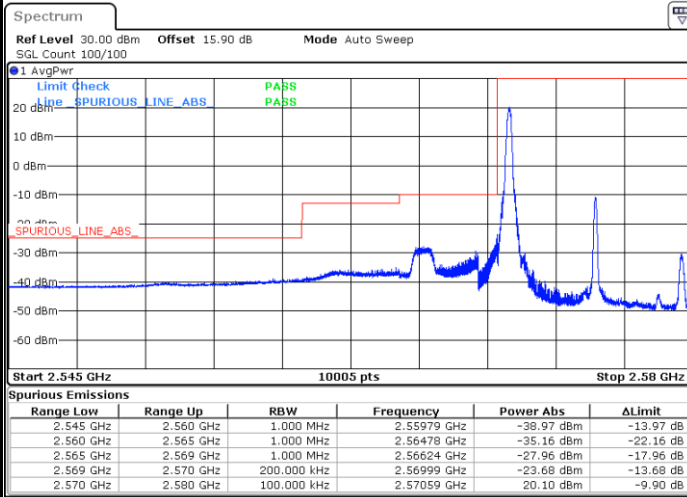


Date: 29.NOV.2021 09:30:51



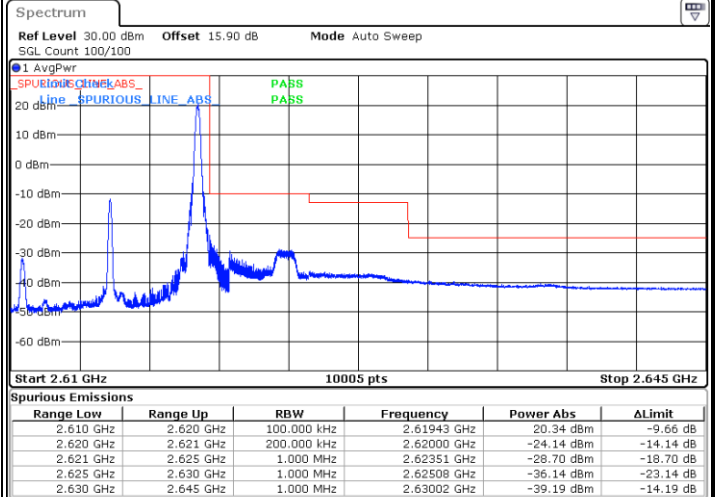
LTE Band 38 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



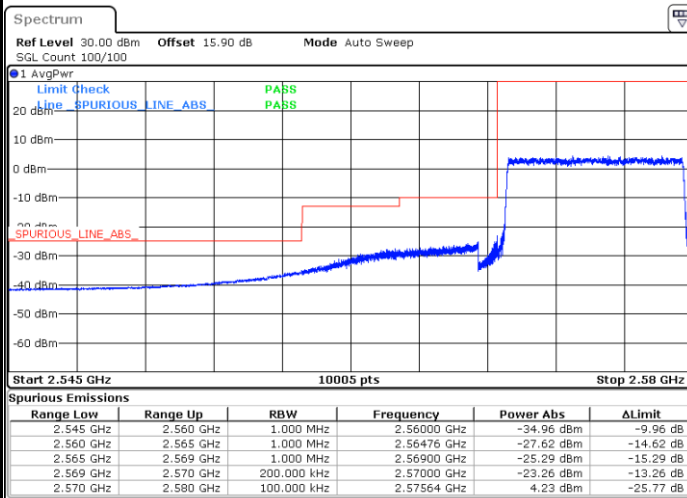
Date: 29.NOV.2021 10:37:51

Highest Band Edge / 1 RB



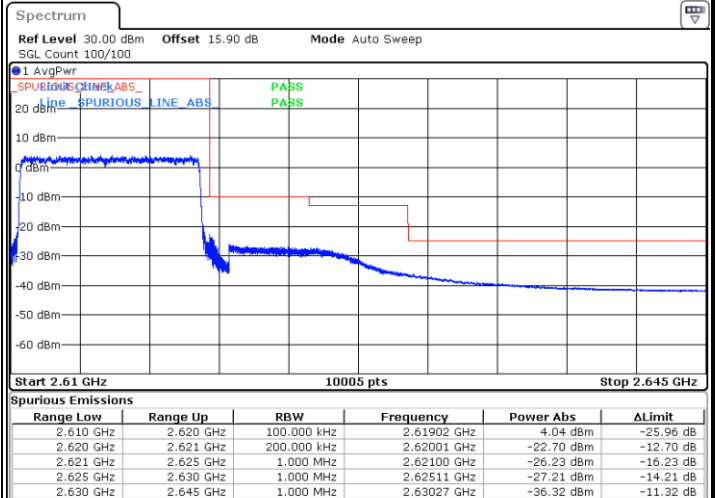
Date: 29.NOV.2021 10:38:33

Lowest Band Edge / Full RB



Date: 29.NOV.2021 10:37:21

Highest Band Edge / Full RB

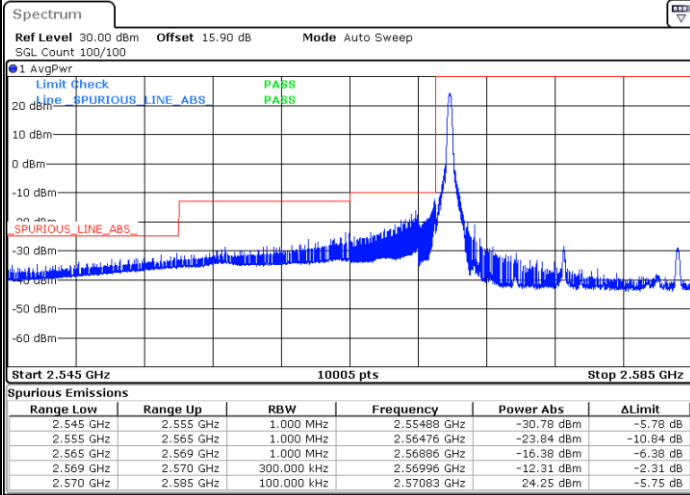


Date: 29.NOV.2021 10:39:05



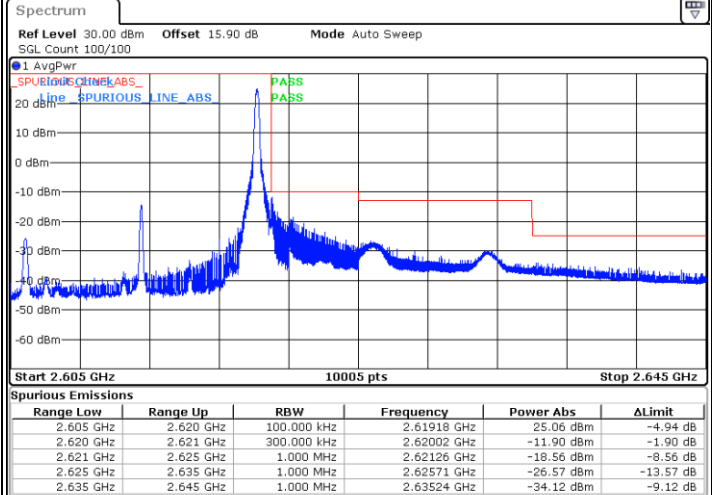
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



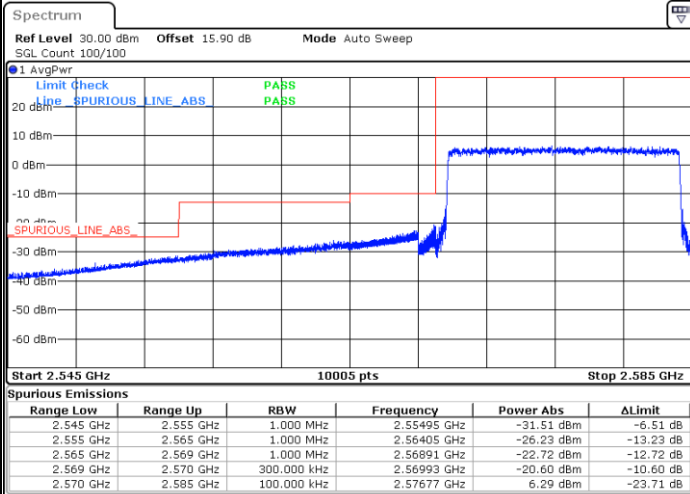
Date: 29.NOV.2021 08:53:46

Highest Band Edge / 1 RB



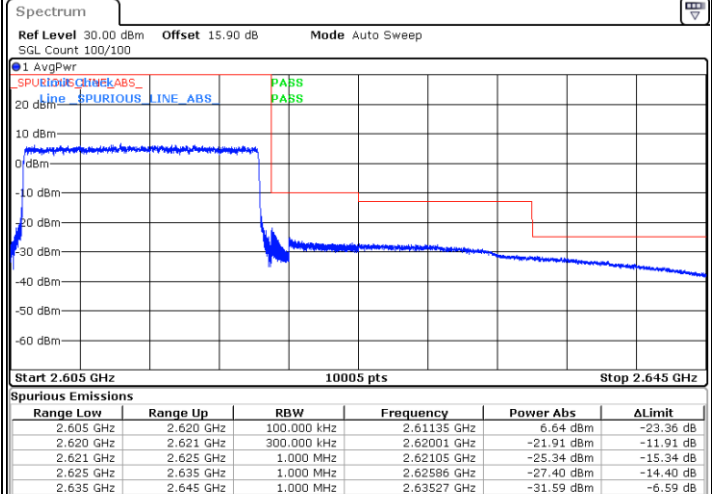
Date: 29.NOV.2021 08:57:48

Lowest Band Edge / Full RB



Date: 29.NOV.2021 08:55:07

Highest Band Edge / Full RB

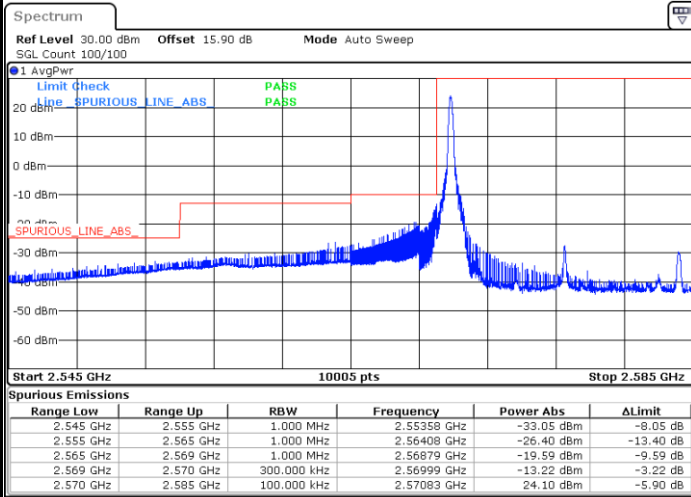


Date: 29.NOV.2021 08:56:27



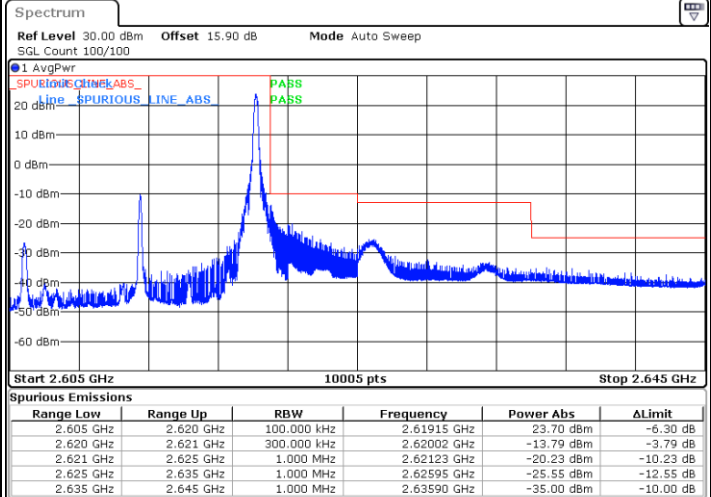
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



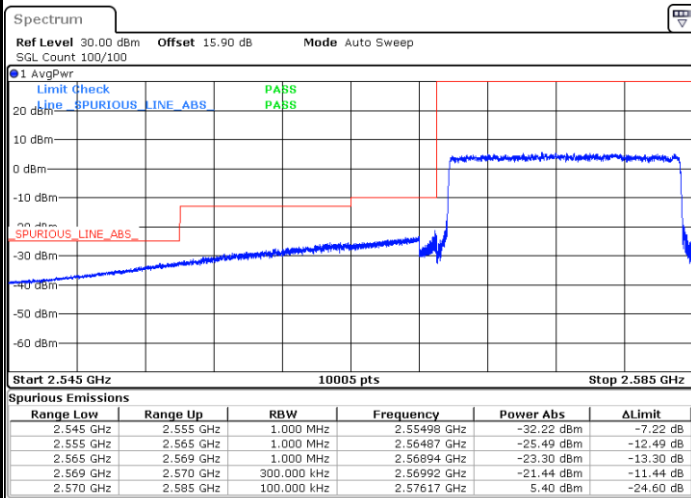
Date: 29.NOV.2021 08:54:26

Highest Band Edge / 1 RB



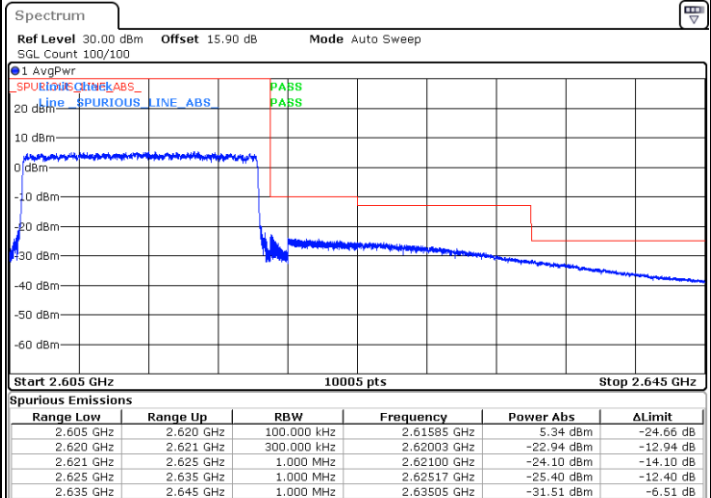
Date: 29.NOV.2021 10:05:22

Lowest Band Edge / Full RB



Date: 29.NOV.2021 08:55:47

Highest Band Edge / Full RB

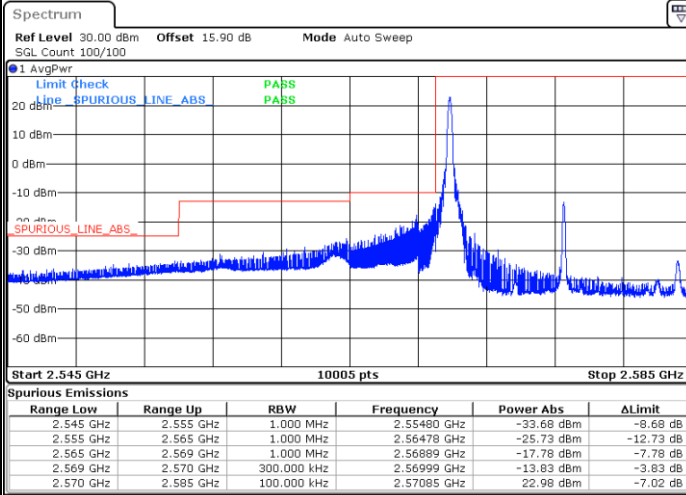


Date: 29.NOV.2021 08:57:07



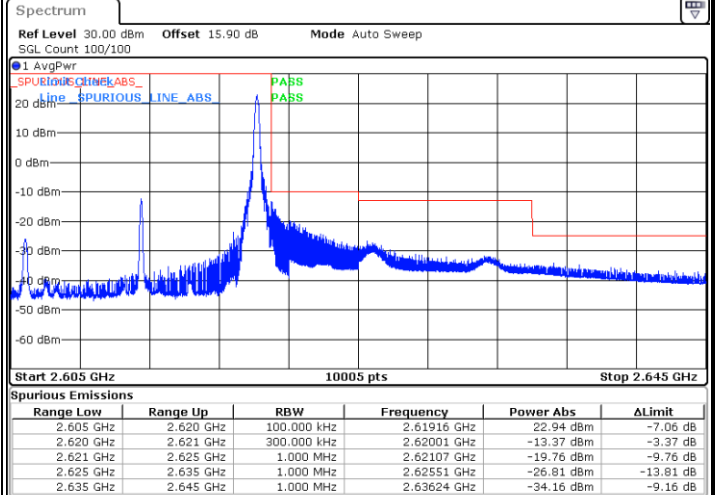
LTE Band 38 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



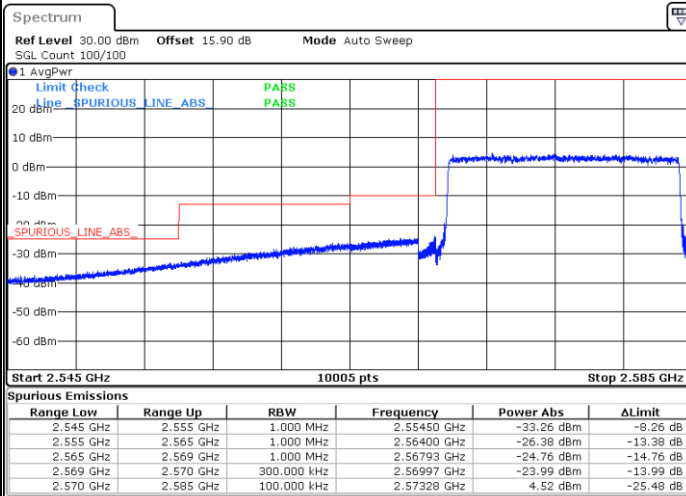
Date: 29.NOV.2021 08:59:08

Highest Band Edge / 1 RB



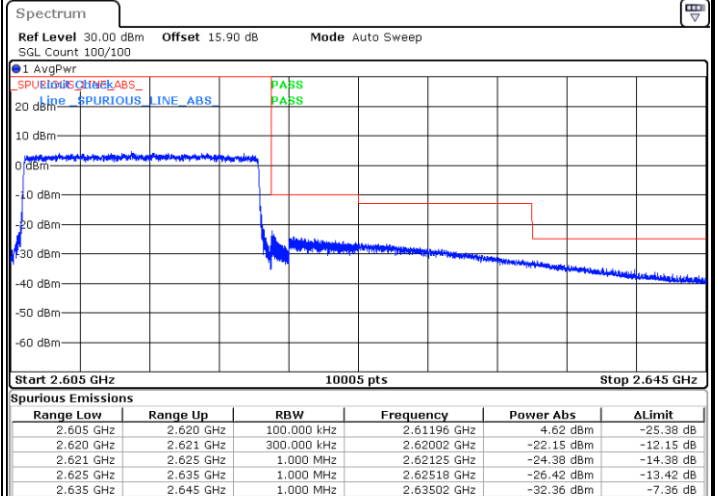
Date: 29.NOV.2021 09:01:08

Lowest Band Edge / Full RB



Date: 29.NOV.2021 08:59:48

Highest Band Edge / Full RB

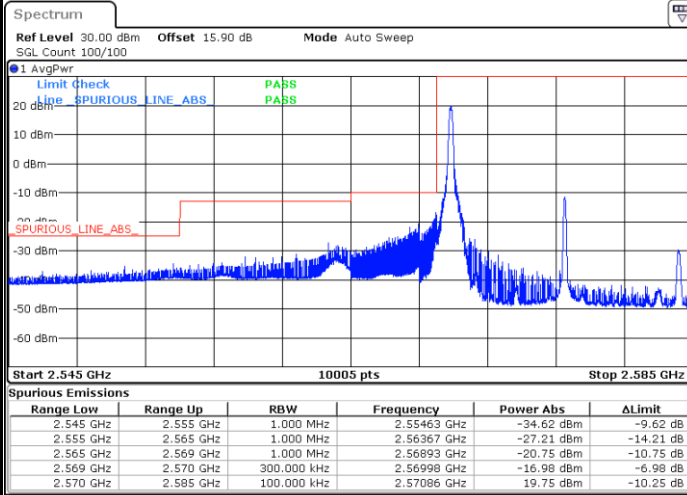


Date: 29.NOV.2021 09:00:28



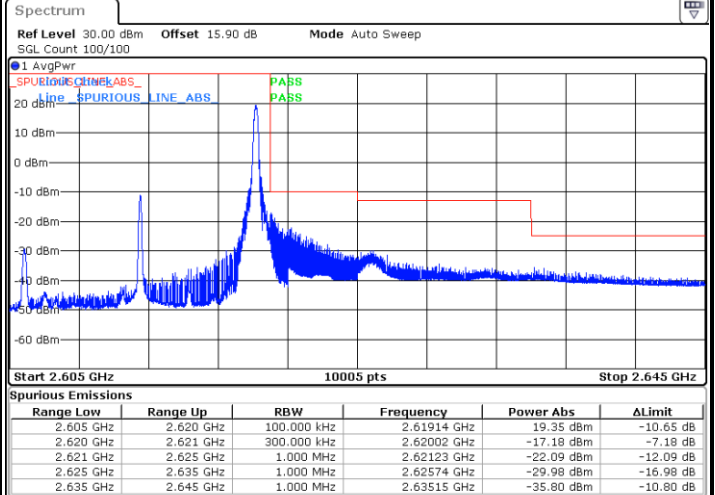
LTE Band 38 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



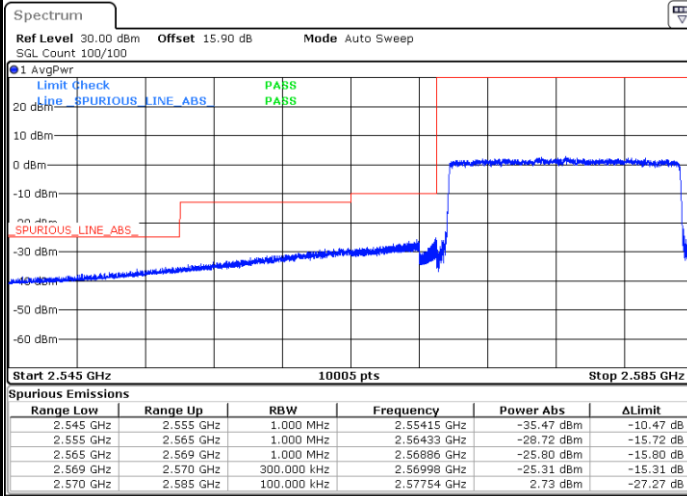
Date: 29.NOV.2021 10:50:53

Highest Band Edge / 1 RB



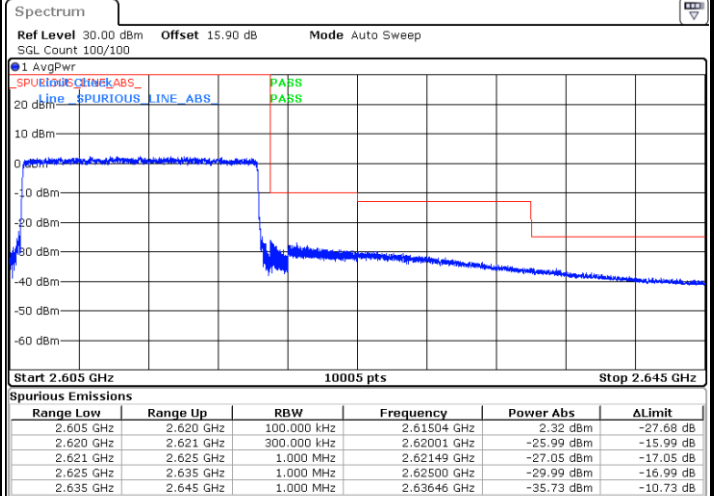
Date: 29.NOV.2021 10:51:54

Lowest Band Edge / Full RB



Date: 29.NOV.2021 10:50:23

Highest Band Edge / Full RB

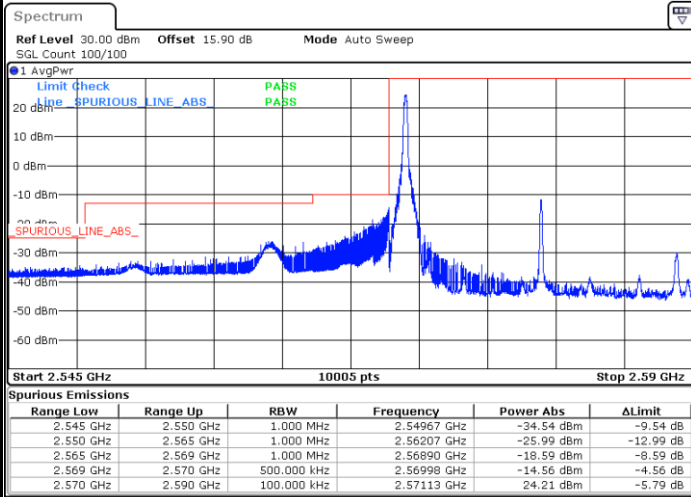


Date: 29.NOV.2021 10:52:24



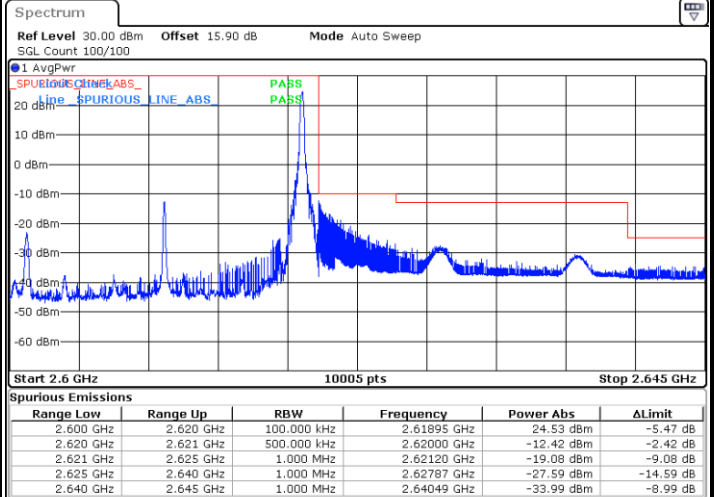
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



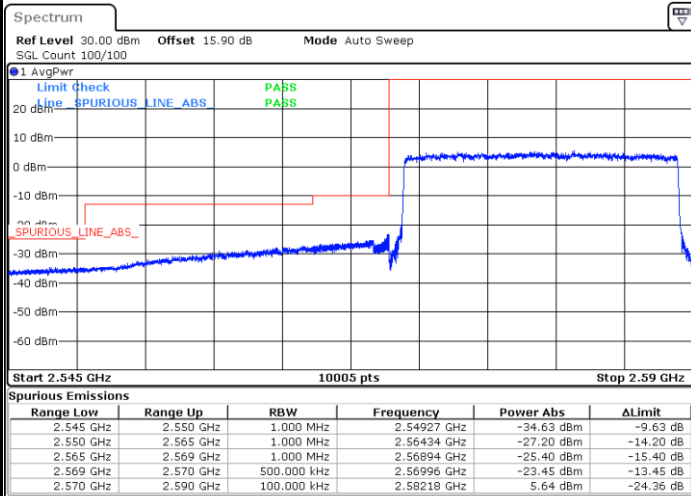
Date: 29.NOV.2021 09:02:33

Highest Band Edge / 1 RB



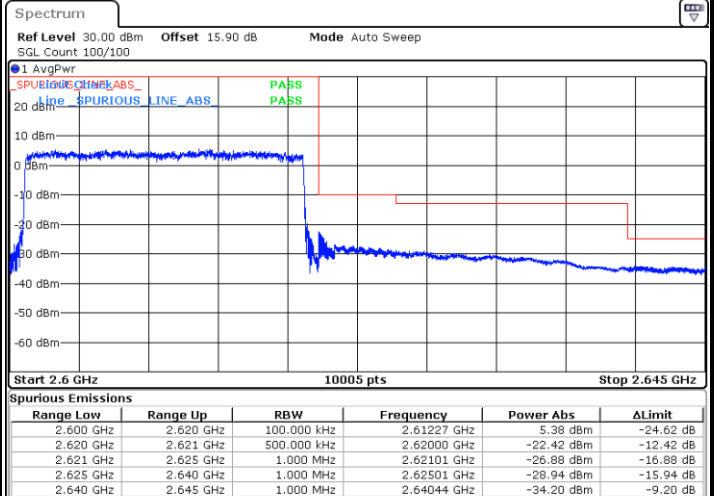
Date: 29.NOV.2021 09:06:34

Lowest Band Edge / Full RB



Date: 29.NOV.2021 09:03:54

Highest Band Edge / Full RB

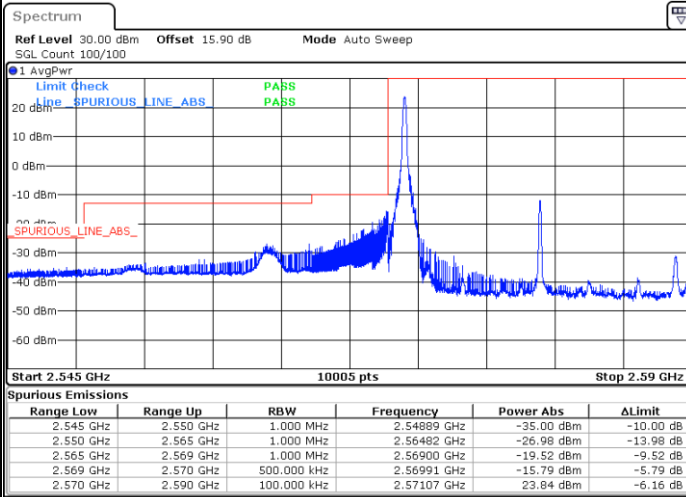


Date: 29.NOV.2021 09:05:14



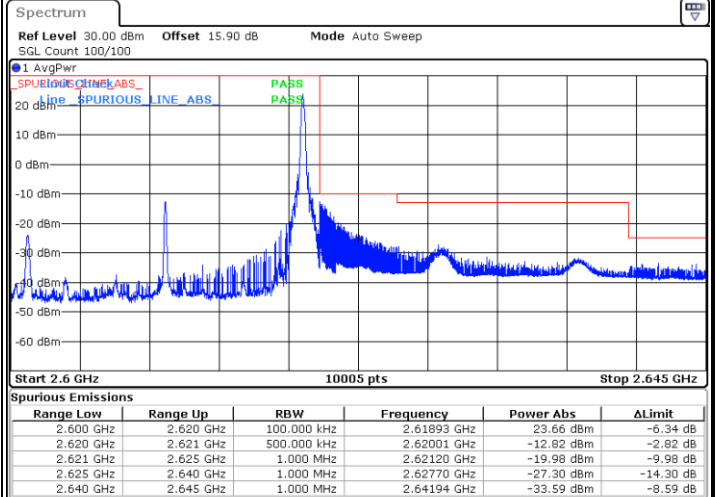
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



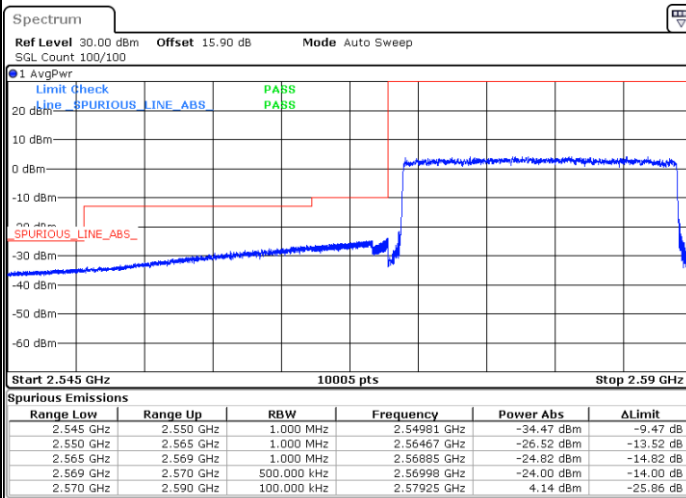
Date: 29.NOV.2021 09:03:14

Highest Band Edge / 1 RB



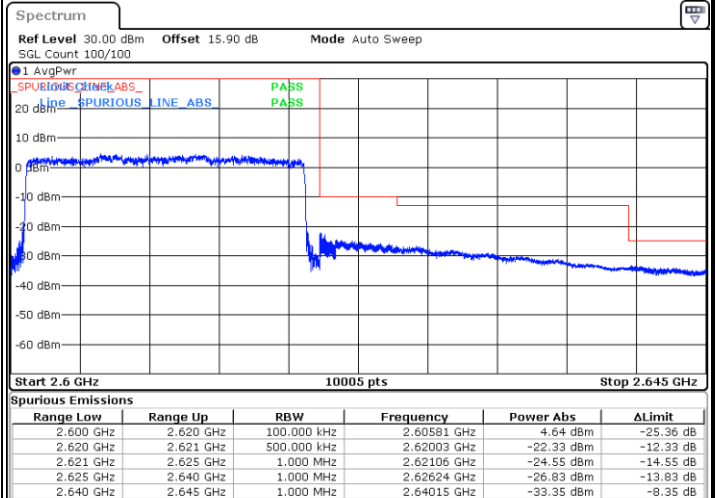
Date: 29.NOV.2021 09:07:15

Lowest Band Edge / Full RB



Date: 29.NOV.2021 09:04:34

Highest Band Edge / Full RB

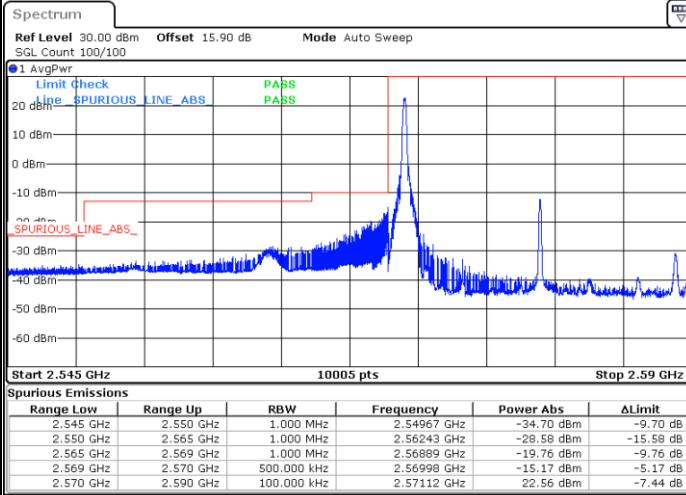


Date: 29.NOV.2021 09:05:54



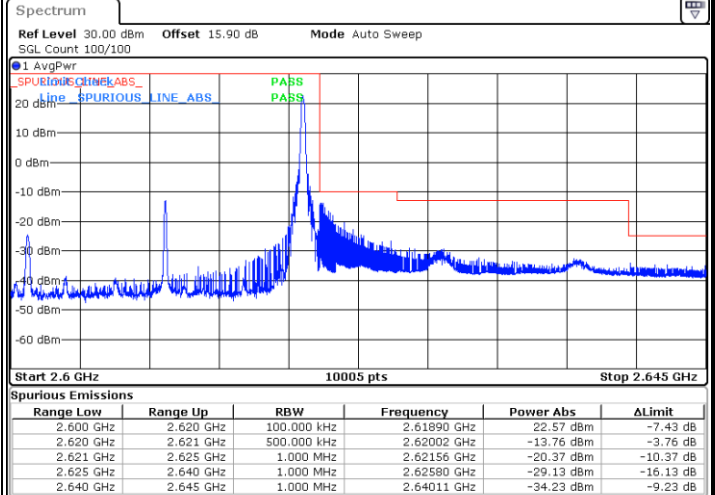
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



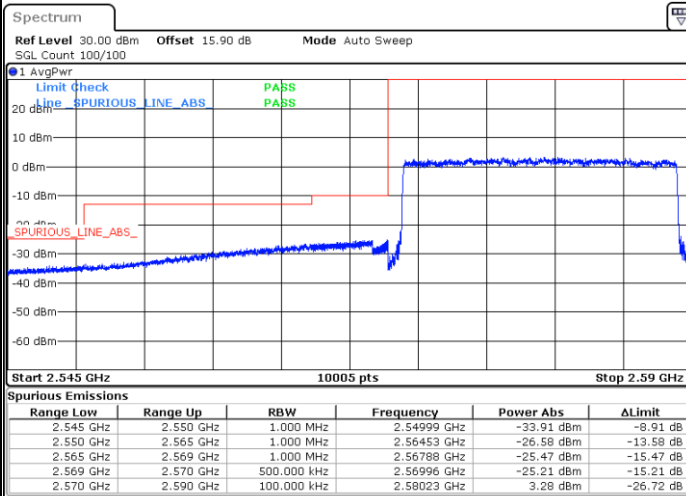
Date: 29.NOV.2021 09:07:57

Highest Band Edge / 1 RB



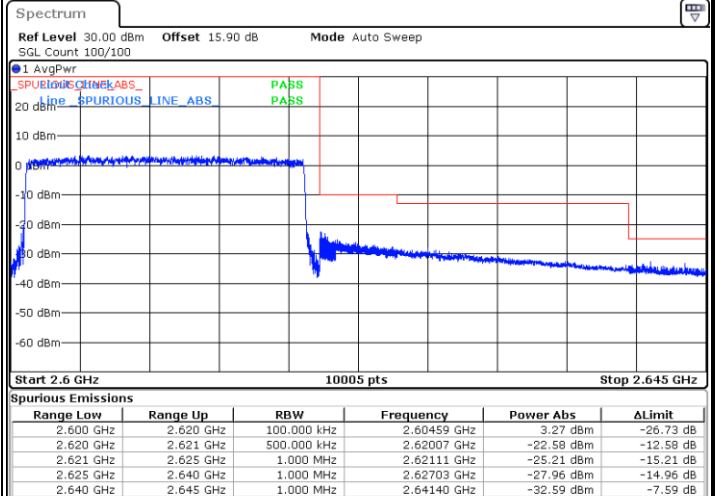
Date: 29.NOV.2021 09:09:58

Lowest Band Edge / Full RB



Date: 29.NOV.2021 09:08:38

Highest Band Edge / Full RB

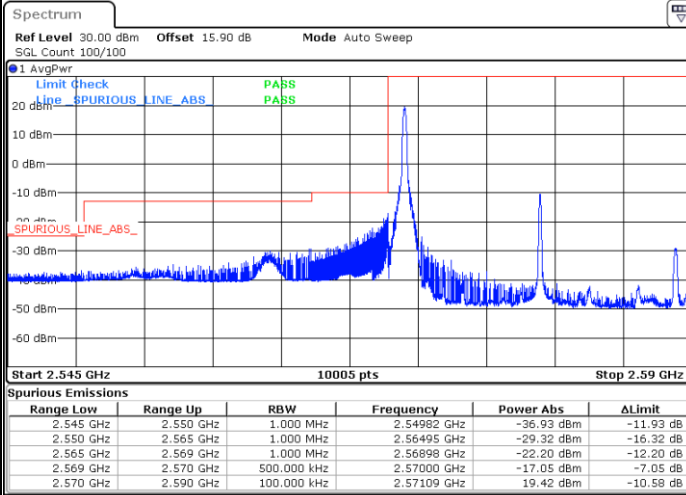


Date: 29.NOV.2021 09:09:18



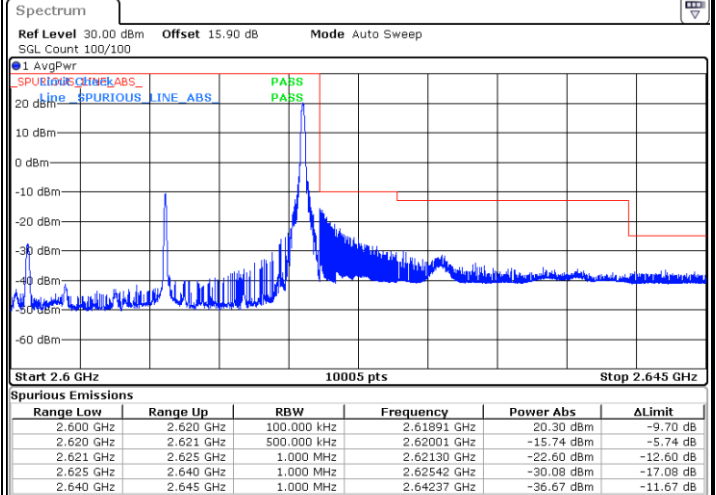
LTE Band 38 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



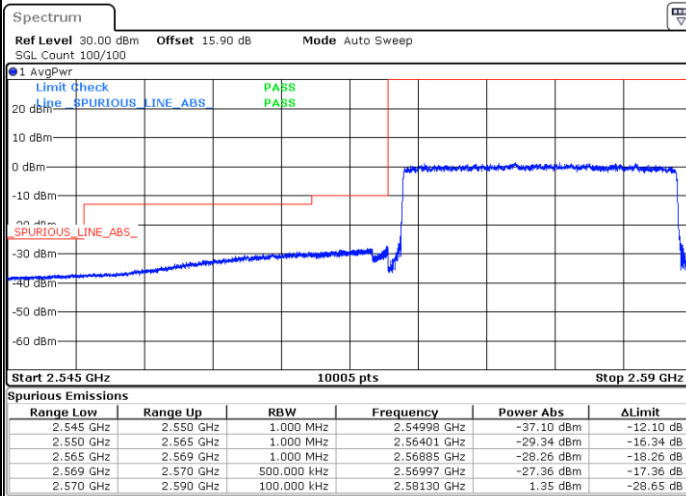
Date: 29.NOV.2021 10:54:39

Highest Band Edge / 1 RB



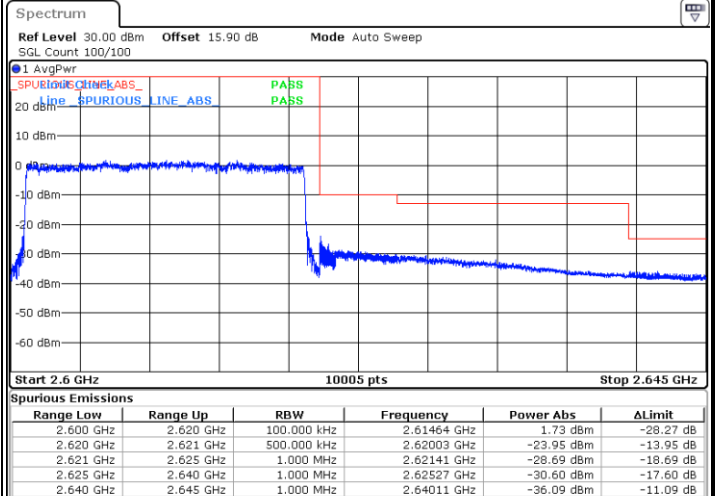
Date: 29.NOV.2021 10:55:21

Lowest Band Edge / Full RB



Date: 29.NOV.2021 10:54:10

Highest Band Edge / Full RB



Date: 29.NOV.2021 10:57:57

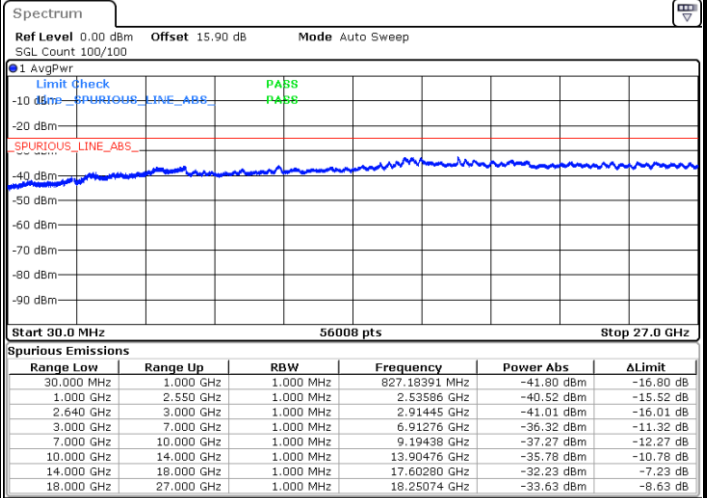
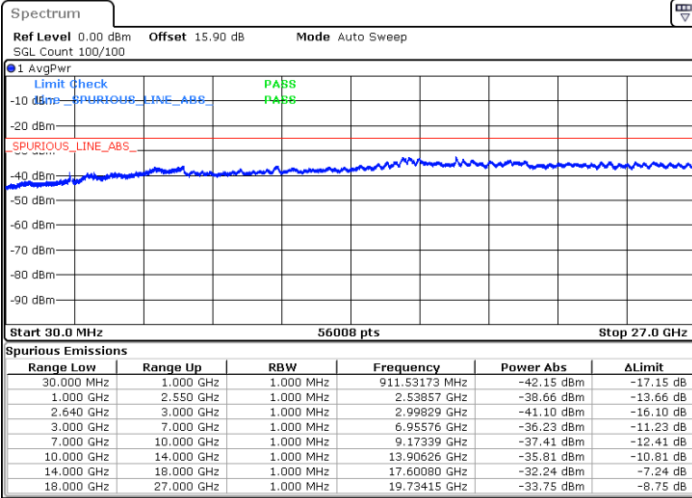


Conducted Spurious Emission

LTE Band 38 / 5MHz

Lowest Channel / QPSK

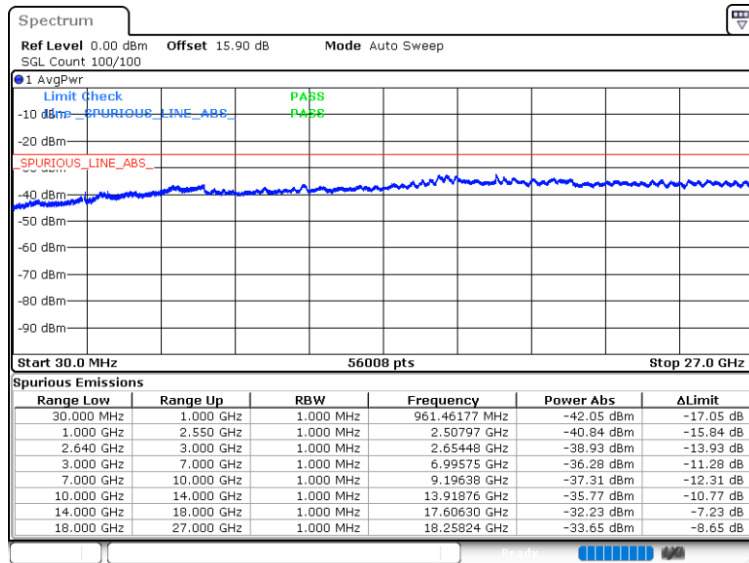
Middle Channel / QPSK



Date: 29.NOV.2021 09:11:47

Date: 29.NOV.2021 09:12:47

Highest Channel / QPSK



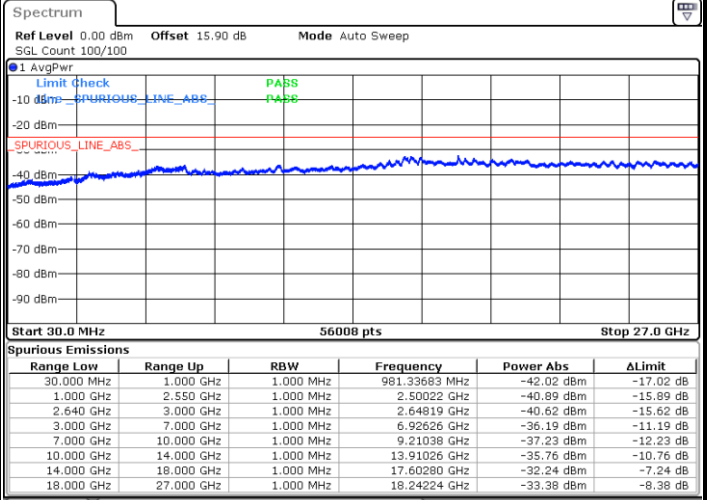
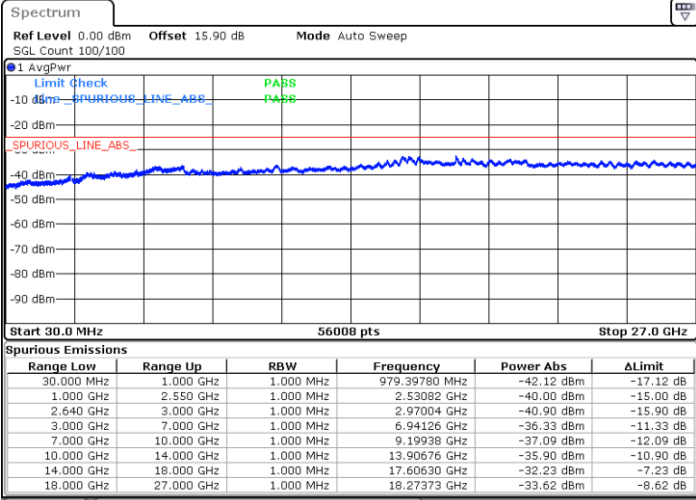
Date: 29.NOV.2021 09:13:48



LTE Band 38 / 10MHz

Lowest Channel / QPSK

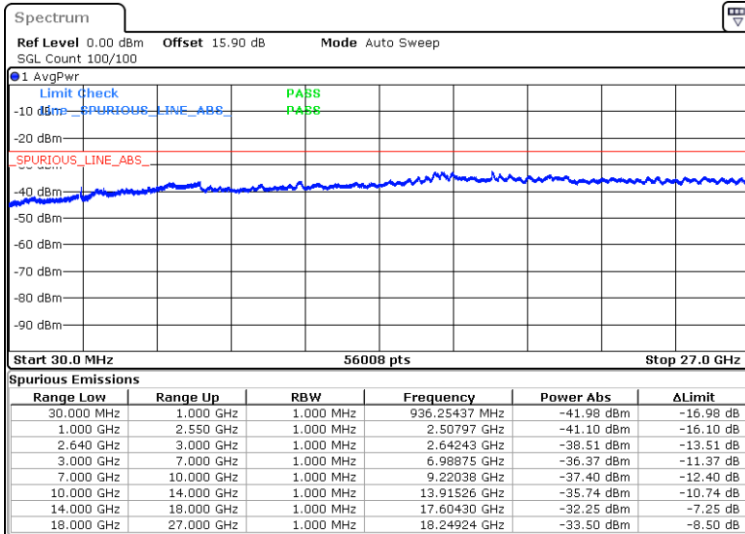
Middle Channel / QPSK



Date: 29.NOV.2021 09:15:10

Date: 29.NOV.2021 09:16:11

Highest Channel / QPSK



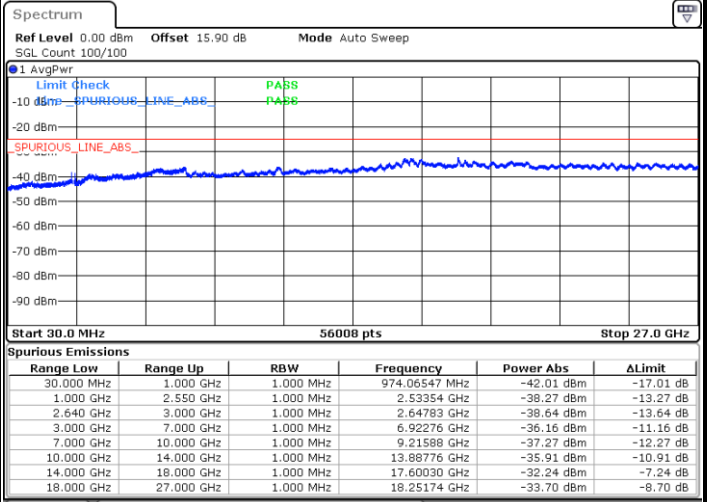
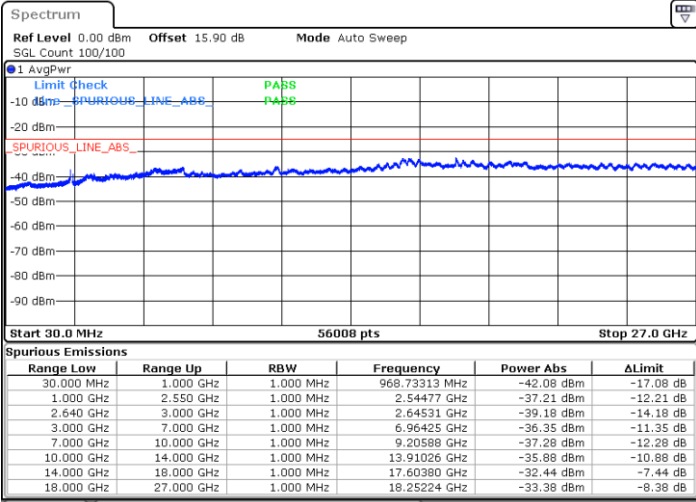
Date: 29.NOV.2021 09:17:11



LTE Band 38 / 15MHz

Lowest Channel / QPSK

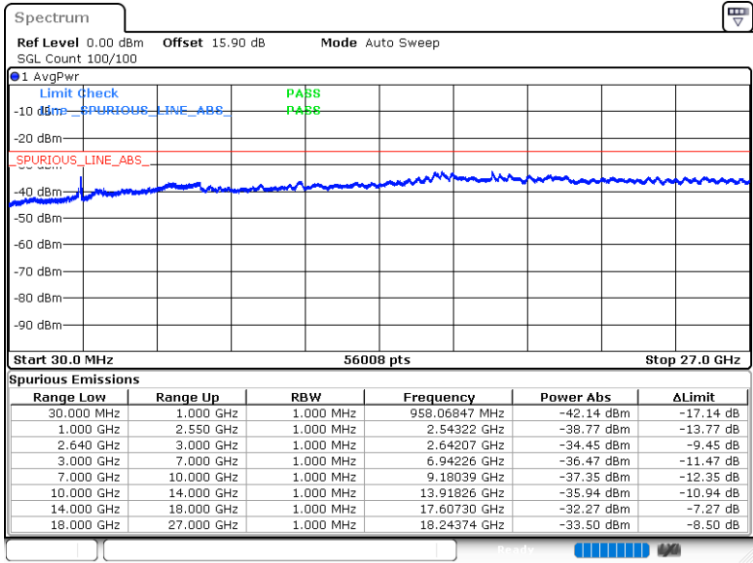
Middle Channel / QPSK



Date: 29.NOV.2021 09:18:53

Date: 29.NOV.2021 09:19:53

Highest Channel / QPSK



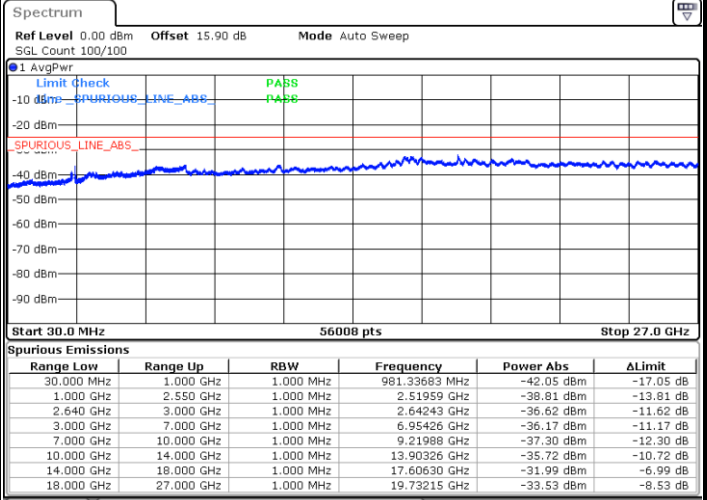
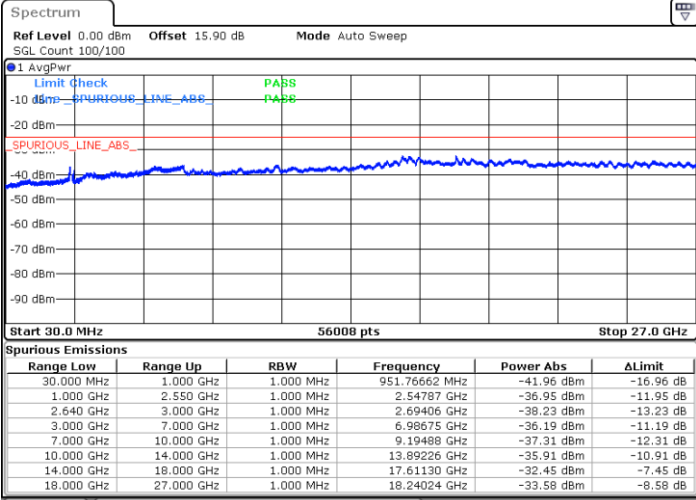
Date: 29.NOV.2021 09:20:54



LTE Band 38 / 20MHz

Lowest Channel / QPSK

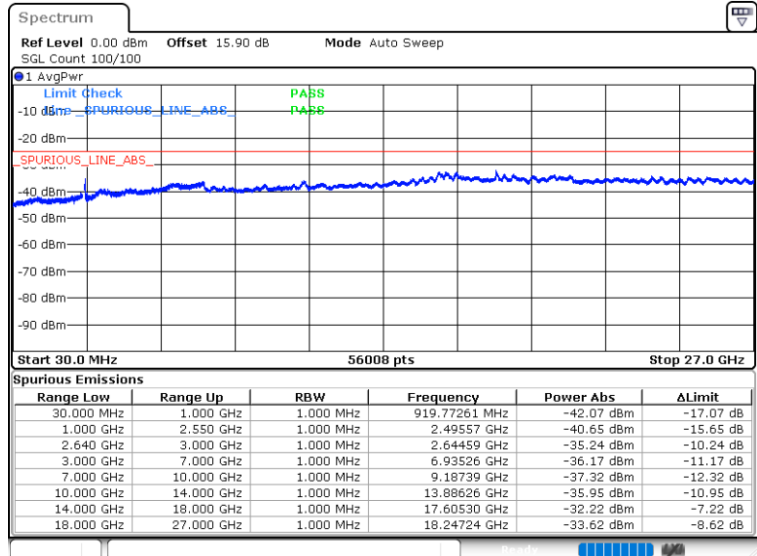
Middle Channel / QPSK



Date: 29.NOV.2021 09:22:44

Date: 29.NOV.2021 09:23:45

Highest Channel / QPSK



Date: 29.NOV.2021 09:24:45



Frequency Stability

| Test Conditions | | LTE Band 38 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0003 | PASS |
| 40 | Normal Voltage | 0.0067 | |
| 30 | Normal Voltage | 0.0012 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0058 | |
| 0 | Normal Voltage | 0.0062 | |
| -10 | Normal Voltage | 0.0044 | |
| -20 | Normal Voltage | 0.0000 | |
| -30 | Normal Voltage | 0.0000 | |
| 20 | Maximum Voltage | 0.0054 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0013 | |

Note:

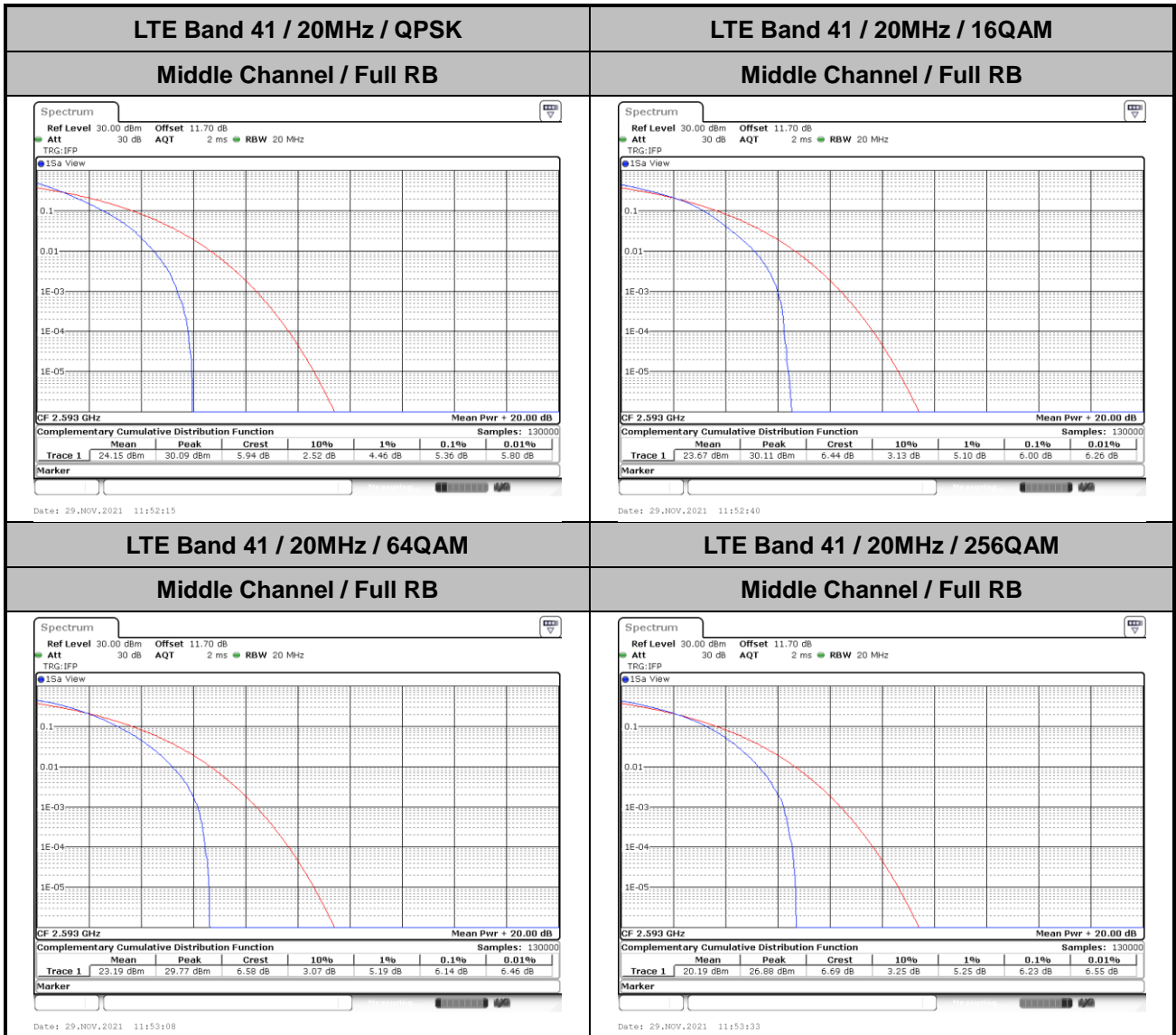
- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41_HPUE

Peak-to-Average Ratio

| Mode | LTE Band 41 / 20MHz | | | | |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 5.36 | 6.00 | 6.14 | 6.23 | PASS |





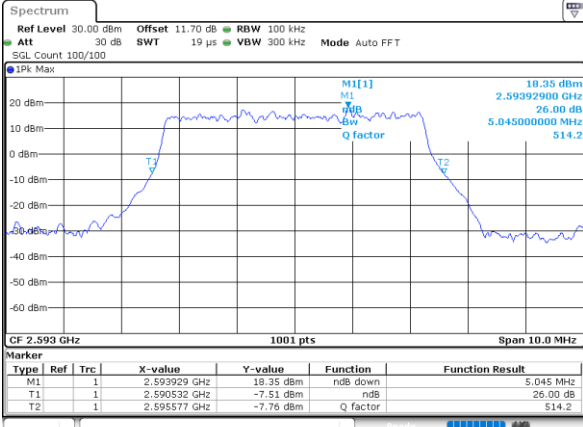
26dB Bandwidth

| Mode | LTE Band 41 : 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 | - | - | - | - | 5.05 | 5.00 | 9.87 | 9.89 | 14.66 | 14.78 | 18.66 | 18.62 |
| Mode | LTE Band 41 : 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 | - | - | - | - | 4.96 | 4.97 | 9.71 | 9.77 | 14.87 | 14.33 | 19.38 | 18.70 |



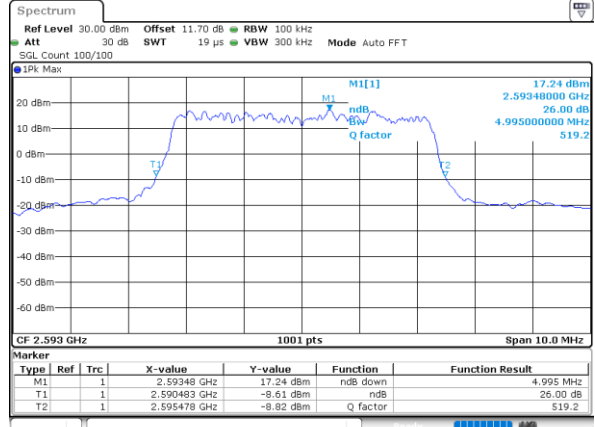
LTE Band 41

Middle Channel / 5MHz / QPSK



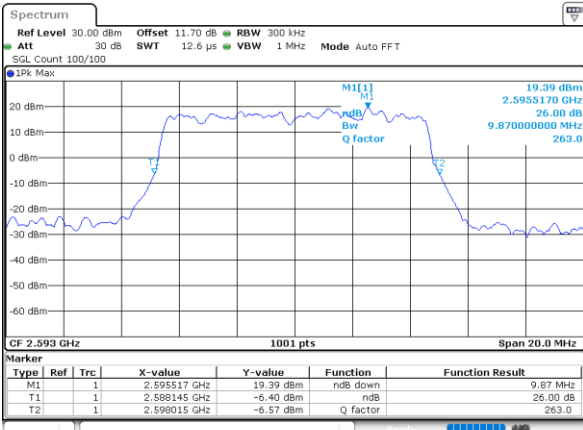
Date: 29_NOV.2021 11:43:15

Middle Channel / 5MHz / 16QAM



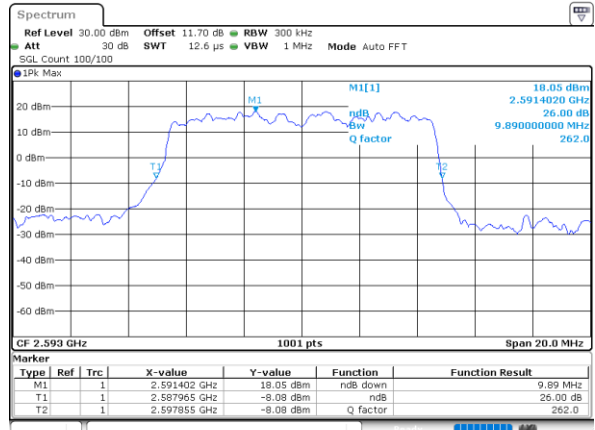
Date: 29_NOV.2021 11:43:35

Middle Channel / 10MHz / QPSK



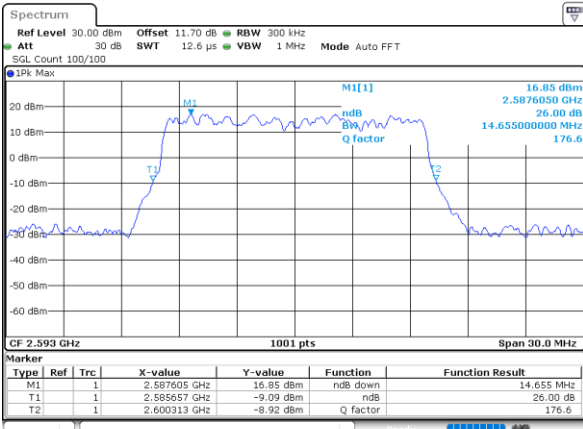
Date: 29_NOV.2021 11:45:23

Middle Channel / 10MHz / 16QAM



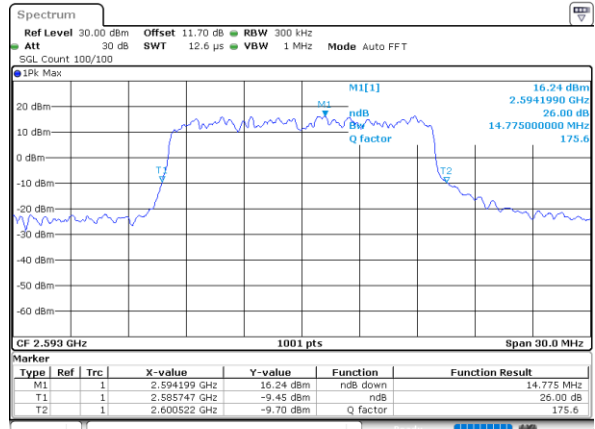
Date: 29_NOV.2021 11:45:43

Middle Channel / 15MHz / QPSK



Date: 29_NOV.2021 11:47:48

Middle Channel / 15MHz / 16QAM

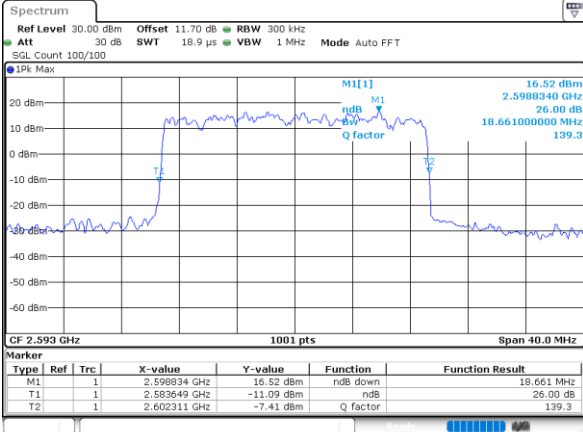


Date: 29_NOV.2021 11:48:09



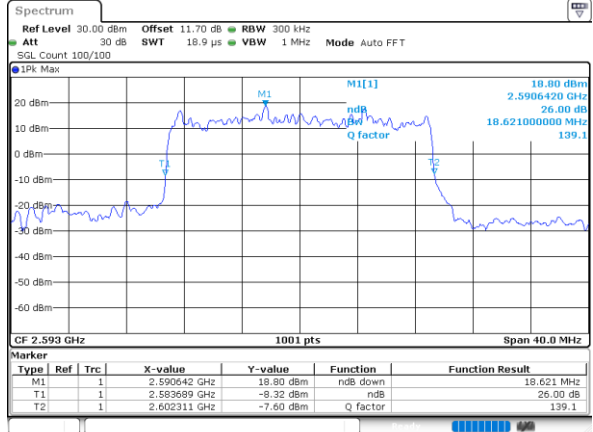
LTE Band 41

Middle Channel / 20MHz / QPSK



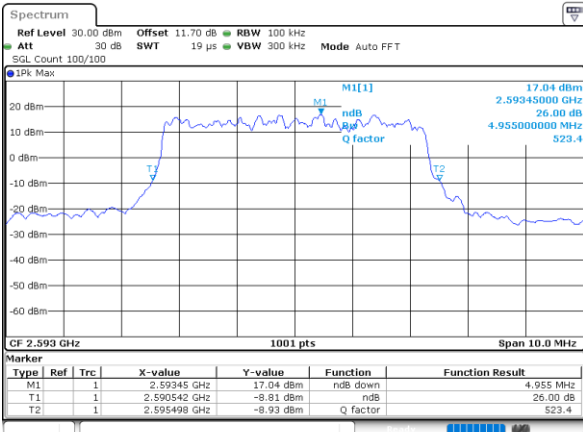
Date: 29_NOV.2021 11:50:07

Middle Channel / 20MHz / 16QAM



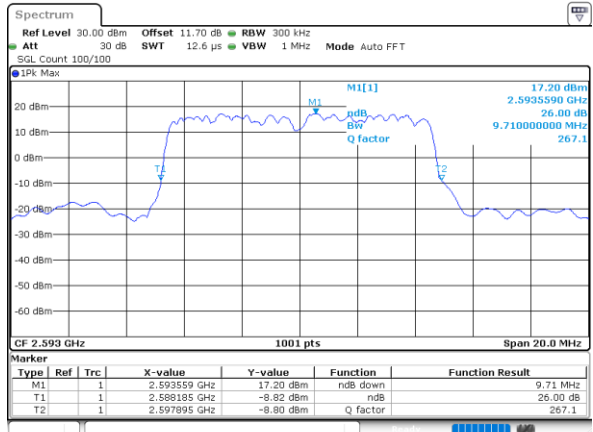
Date: 29_NOV.2021 11:50:28

Middle Channel / 5MHz / 64QAM



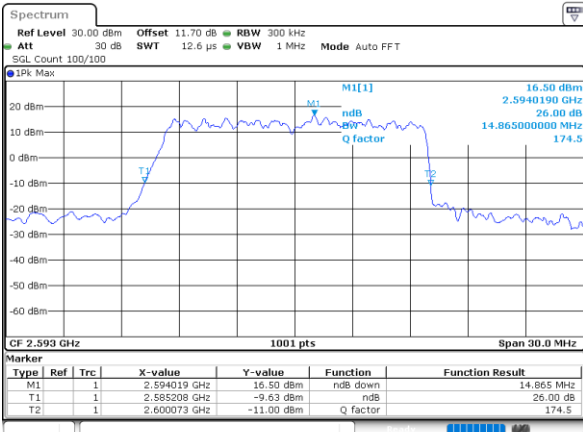
Date: 29_NOV.2021 11:44:17

Middle Channel / 10MHz / 64QAM



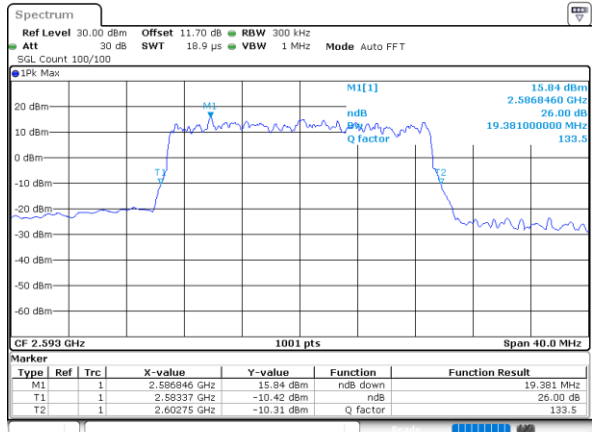
Date: 29_NOV.2021 11:46:25

Middle Channel / 15MHz / 64QAM



Date: 29_NOV.2021 11:48:50

Middle Channel / 20MHz / 64QAM

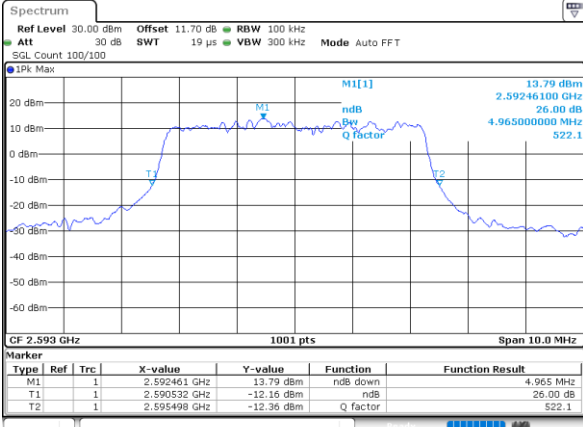


Date: 29_NOV.2021 11:51:09



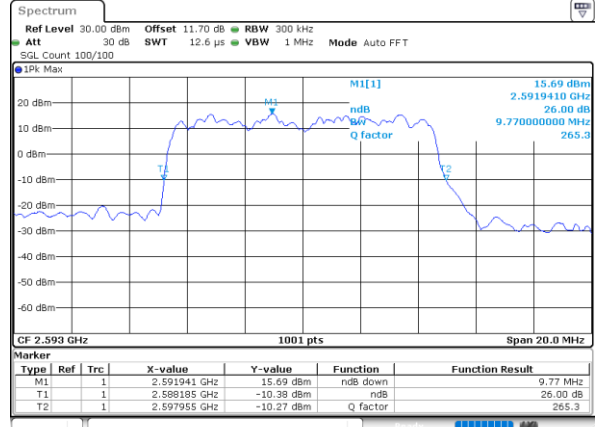
LTE Band 41

Middle Channel / 5MHz / 256QAM



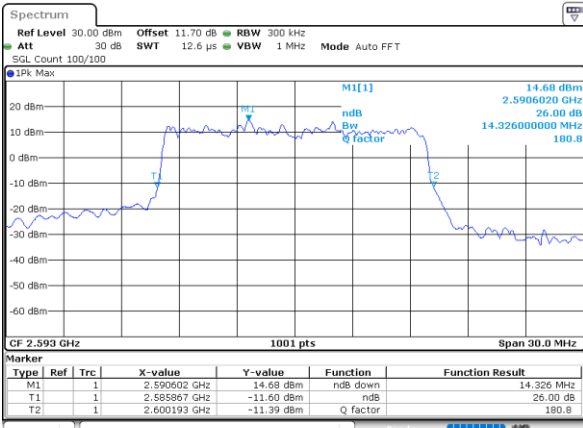
Date: 29.NOV.2021 11:55:47

Middle Channel / 10MHz / 256QAM



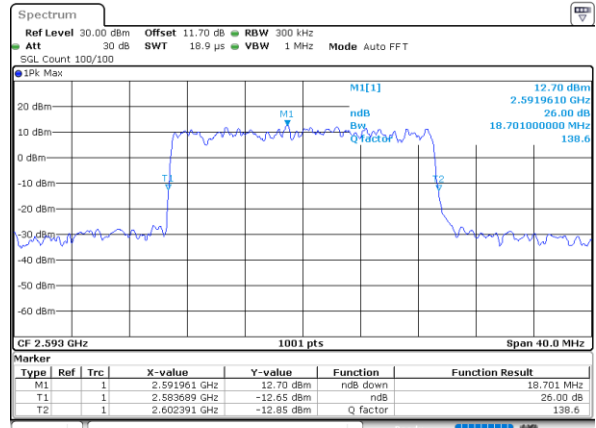
Date: 29.NOV.2021 11:55:11

Middle Channel / 15MHz / 256QAM



Date: 29.NOV.2021 11:54:27

Middle Channel / 20MHz / 256QAM



Date: 29.NOV.2021 11:55:56



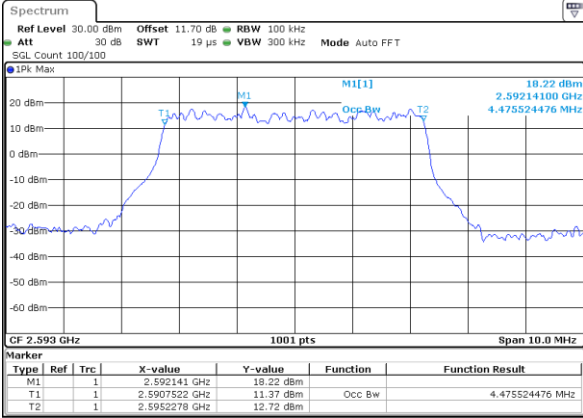
Occupied Bandwidth

| Mode | LTE Band 41 : 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 | 9.03 | 9.05 | 13.40 | 13.46 | 17.82 | 17.90 |
| Mode | LTE Band 41 : 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 | - | - | - | - | 4.49 | 4.46 | 9.05 | 9.01 | 13.43 | 13.43 | 17.90 | 17.86 |



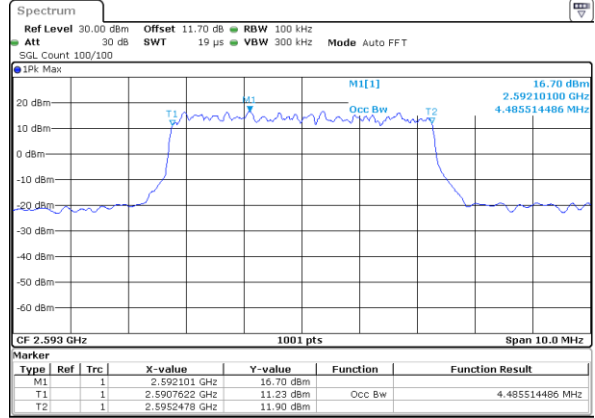
LTE Band 41

Middle Channel / 5MHz / QPSK



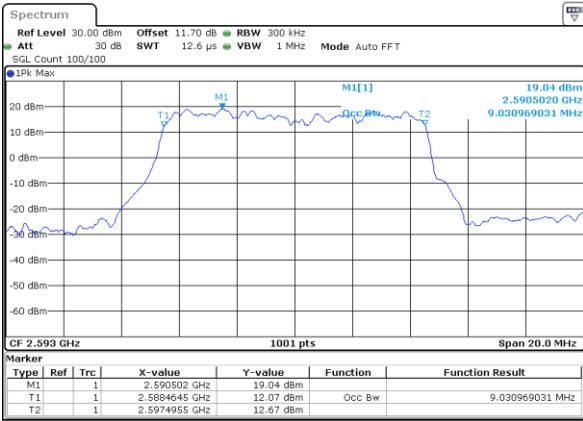
Date: 29_NOV.2021 11:42:33

Middle Channel / 5MHz / 16QAM



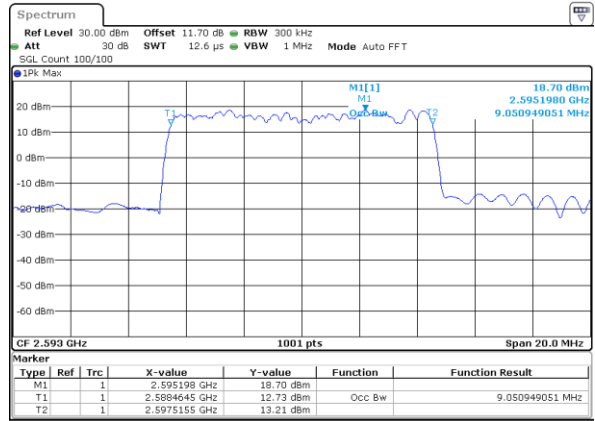
Date: 29_NOV.2021 11:42:54

Middle Channel / 10MHz / QPSK



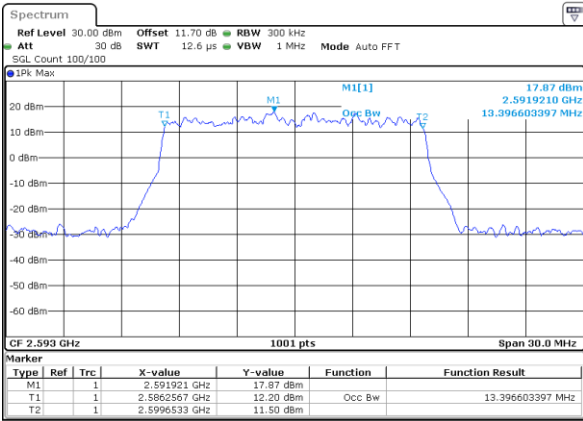
Date: 29_NOV.2021 11:44:41

Middle Channel / 10MHz / 16QAM



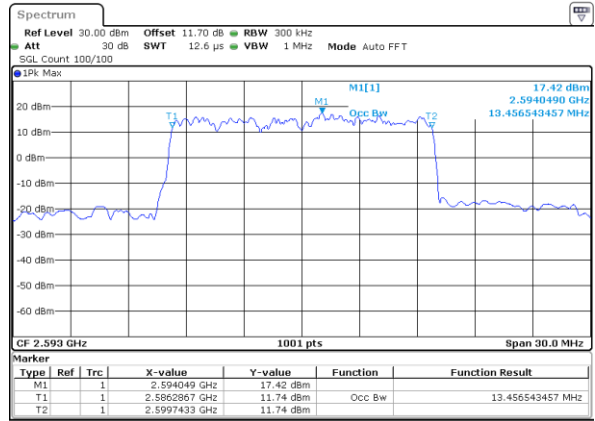
Date: 29_NOV.2021 11:45:02

Middle Channel / 15MHz / QPSK



Date: 29_NOV.2021 11:47:07

Middle Channel / 15MHz / 16QAM

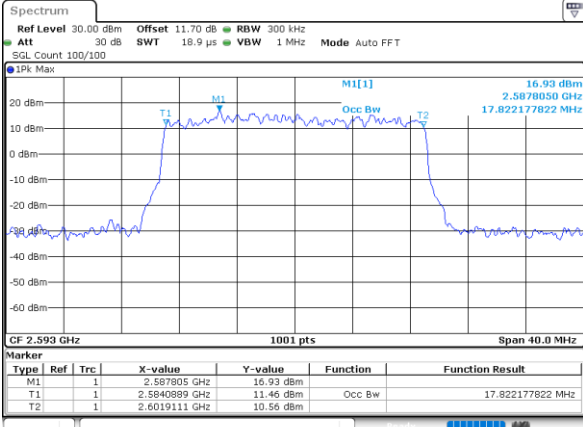


Date: 29_NOV.2021 11:47:27



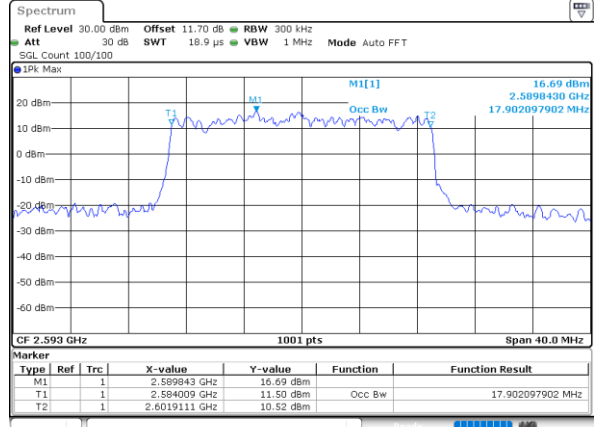
LTE Band 41

Middle Channel / 20MHz / QPSK



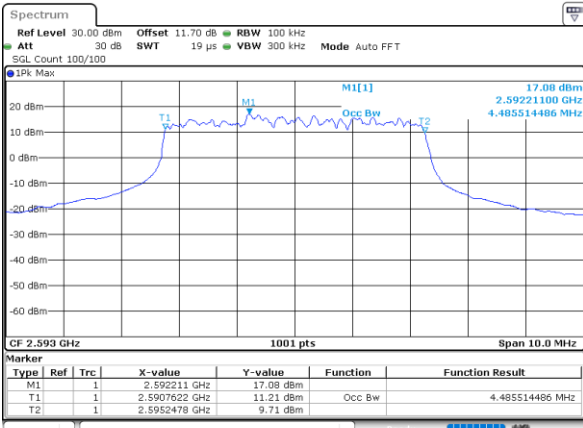
Date: 29_NOV.2021 11:51:33

Middle Channel / 20MHz / 16QAM



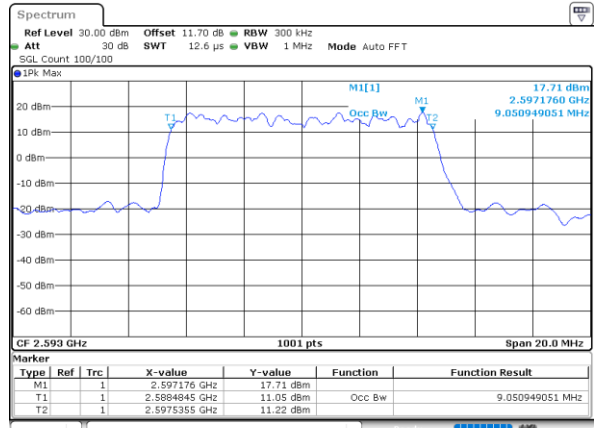
Date: 29_NOV.2021 11:49:46

Middle Channel / 5MHz / 64QAM



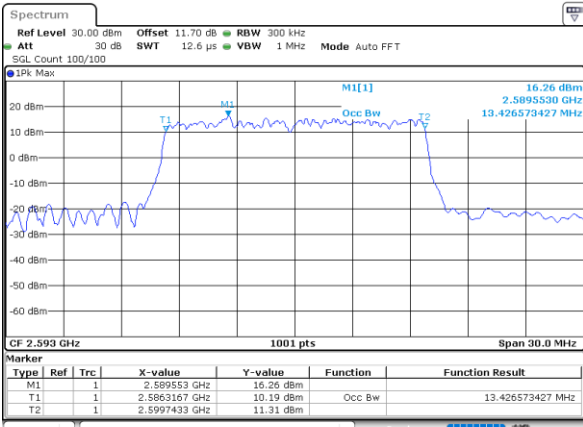
Date: 29_NOV.2021 11:43:56

Middle Channel / 10MHz / 64QAM



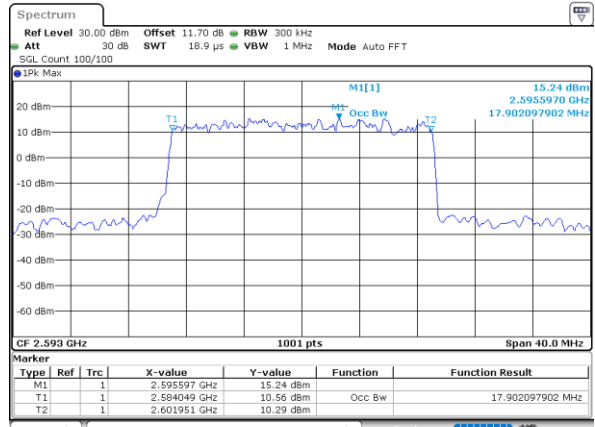
Date: 29_NOV.2021 11:46:05

Middle Channel / 15MHz / 64QAM



Date: 29_NOV.2021 11:48:30

Middle Channel / 20MHz / 64QAM

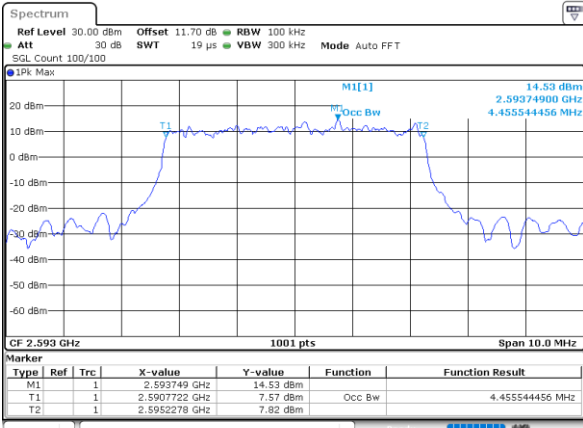


Date: 29_NOV.2021 11:50:49



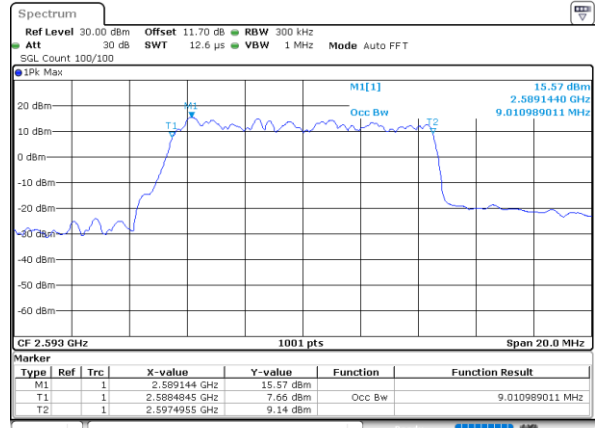
LTE Band 41

Middle Channel / 5MHz / 256QAM



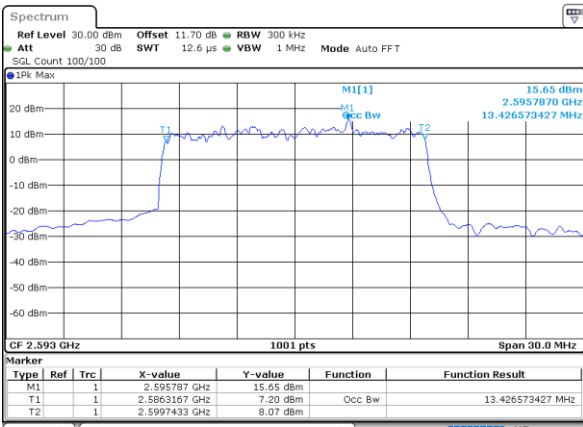
Date: 29.NOV.2021 11:55:37

Middle Channel / 10MHz / 256QAM



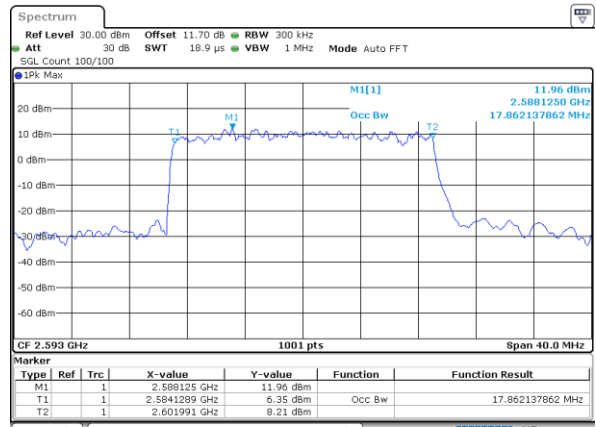
Date: 29.NOV.2021 11:55:01

Middle Channel / 15MHz / 256QAM



Date: 29.NOV.2021 11:54:18

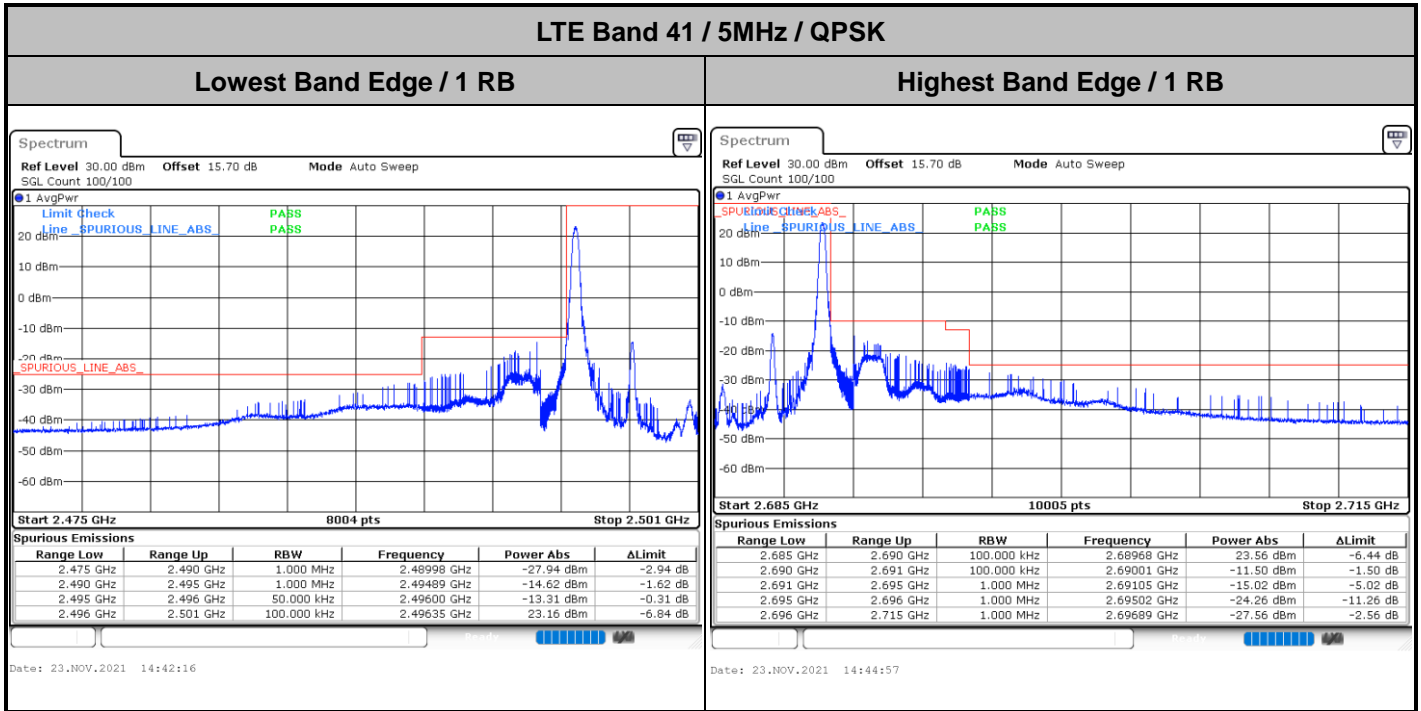
Middle Channel / 20MHz / 256QAM



Date: 29.NOV.2021 11:53:46

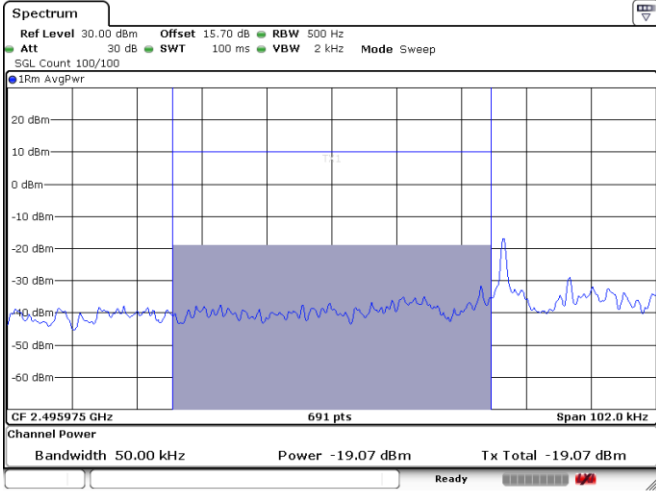


Conducted Band Edge

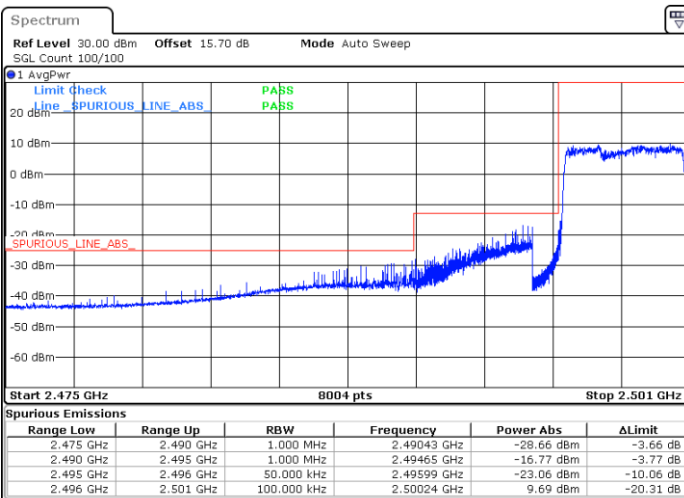




Channel power verify

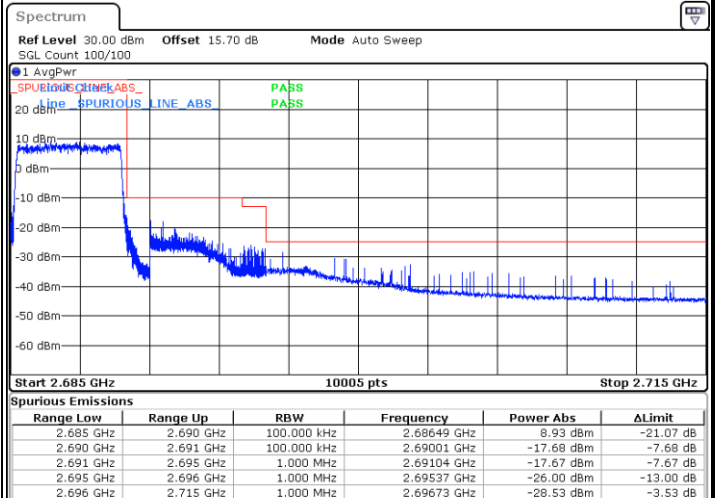


Lowest Band Edge / Full RB



Date: 23.NOV.2021 14:43:36

Highest Band Edge / Full RB

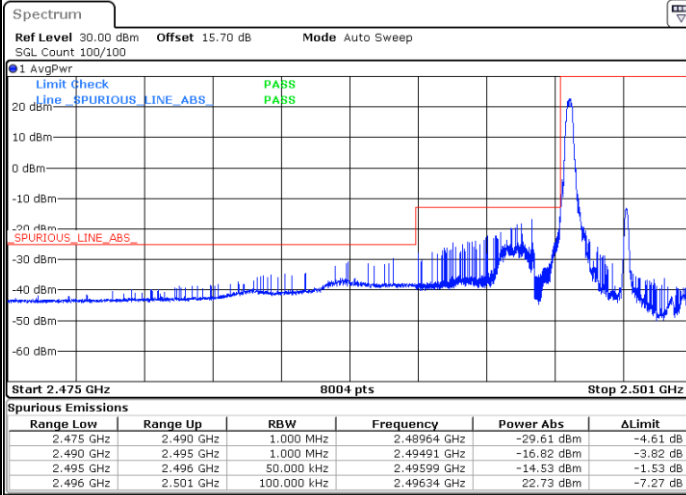


Date: 23.NOV.2021 17:36:28



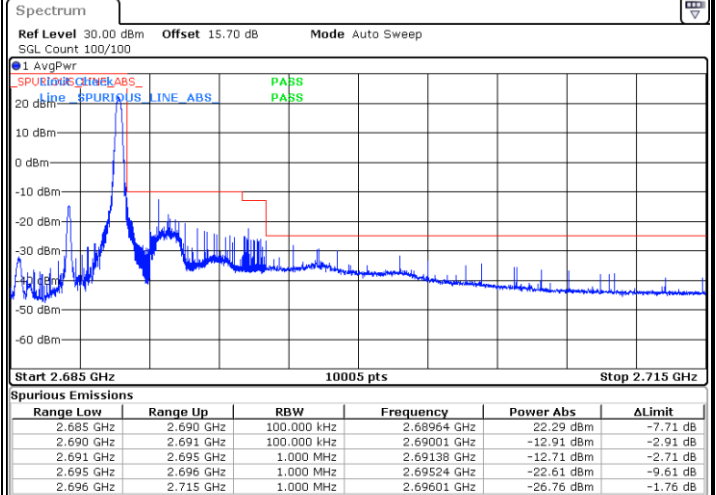
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



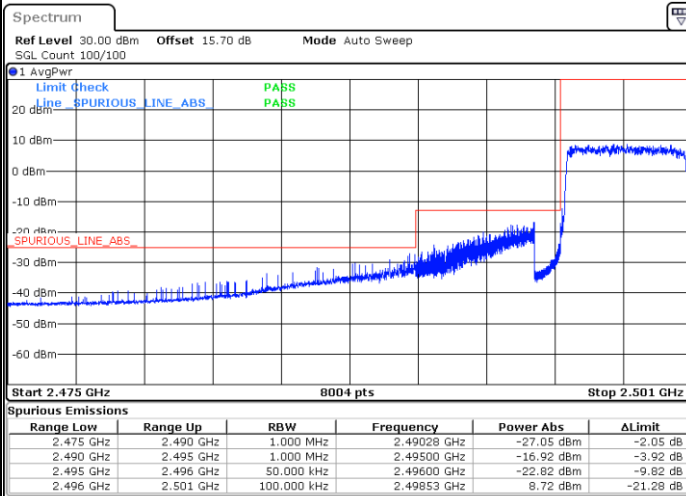
Date: 23.NOV.2021 16:45:49

Highest Band Edge / 1 RB



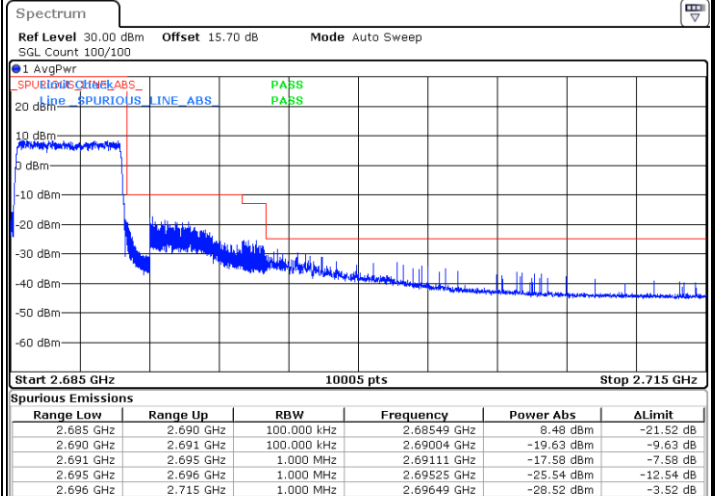
Date: 23.NOV.2021 14:45:36

Lowest Band Edge / Full RB



Date: 23.NOV.2021 14:44:17

Highest Band Edge / Full RB



Date: 23.NOV.2021 17:05:12