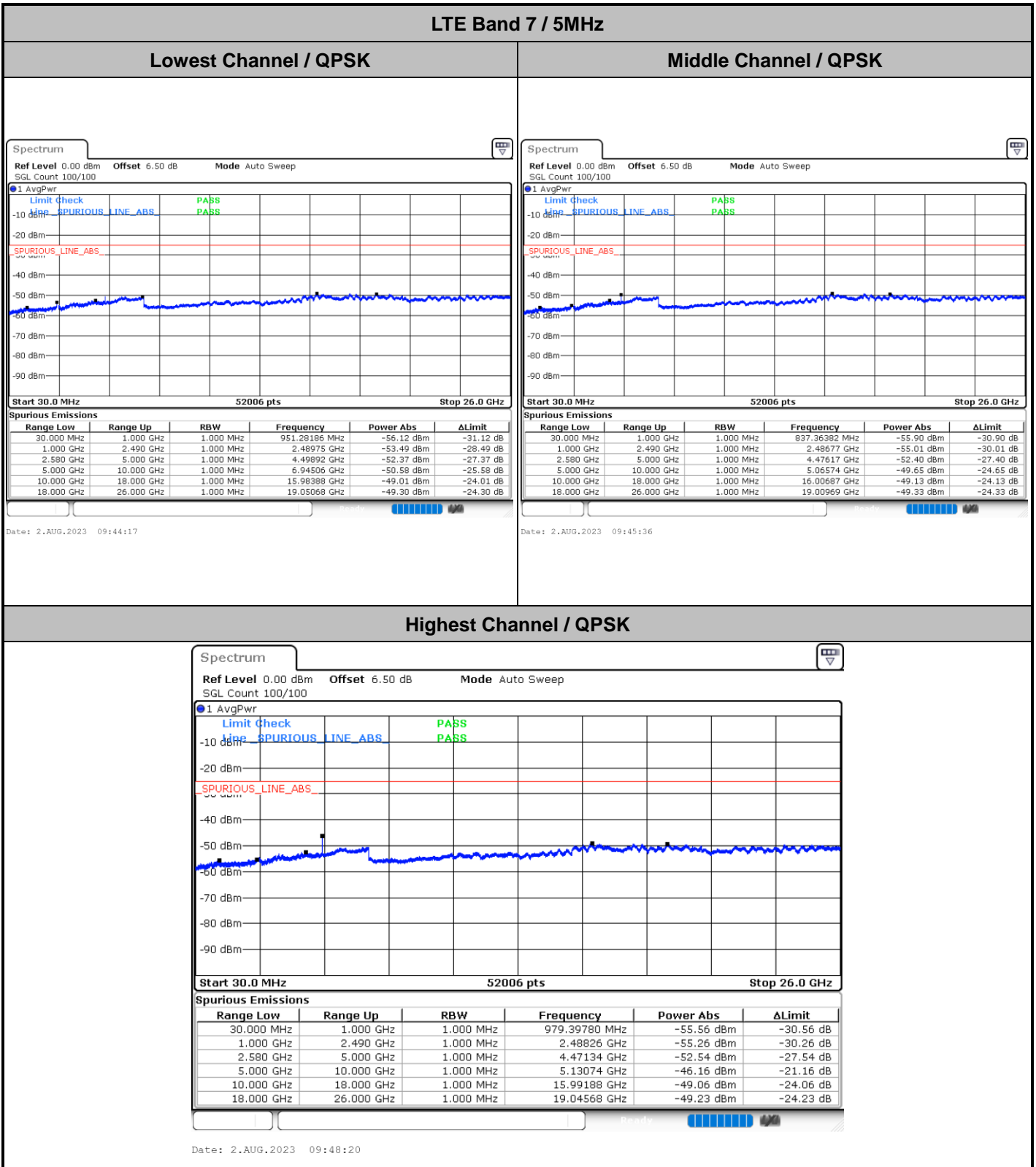




Conducted Spurious Emission

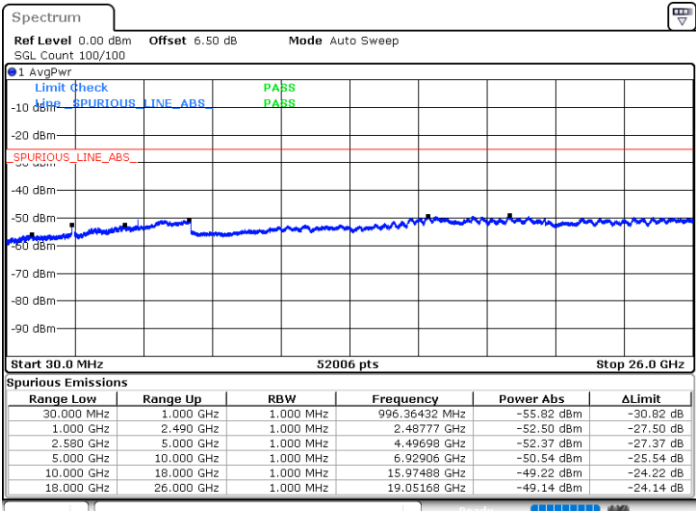




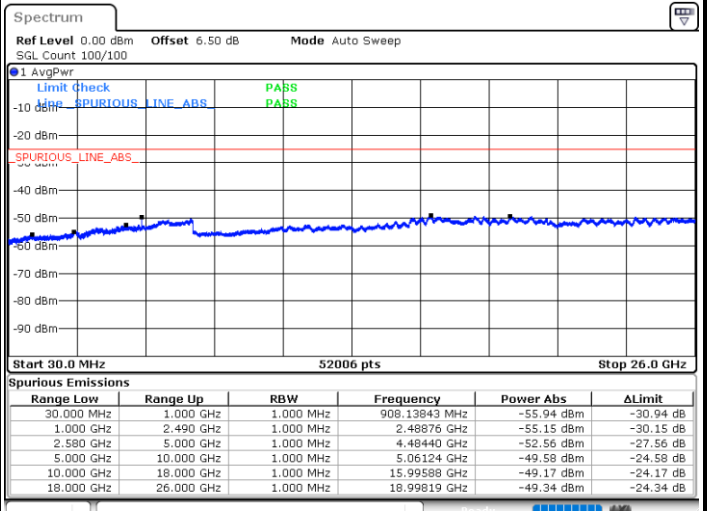
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

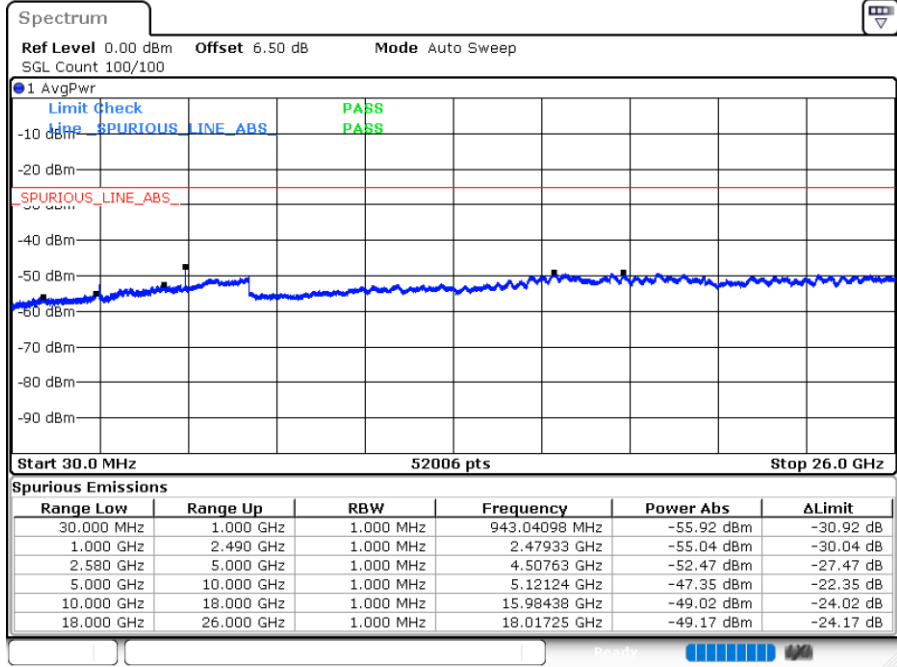


Date: 2.AUG.2023 10:11:08



Date: 2.AUG.2023 10:12:27

Highest Channel / QPSK



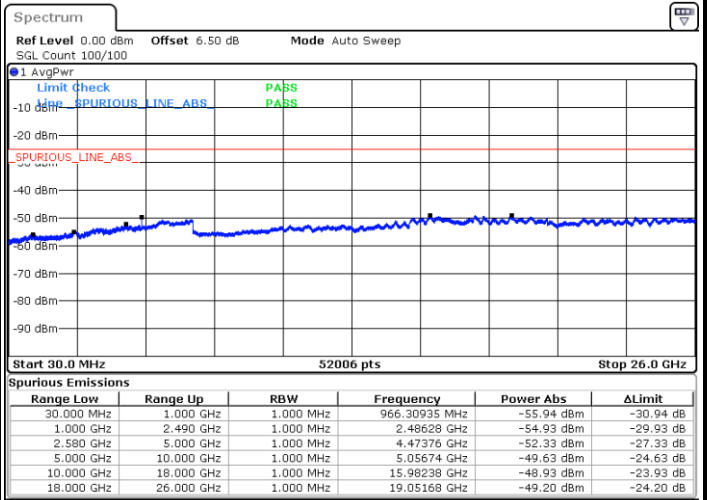
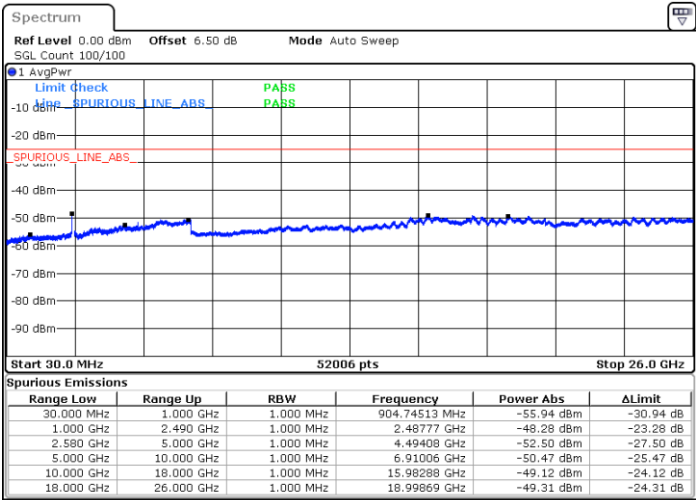
Date: 2.AUG.2023 10:15:11



LTE Band 7 / 15MHz

Lowest Channel / QPSK

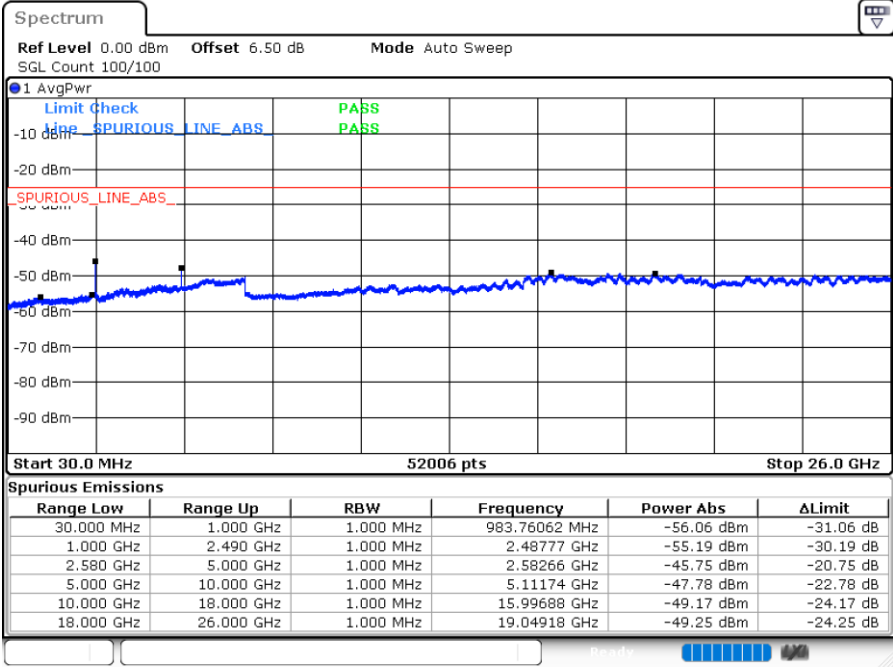
Middle Channel / QPSK



Date: 2.AUG.2023 10:38:00

Date: 2.AUG.2023 10:39:19

Highest Channel / QPSK



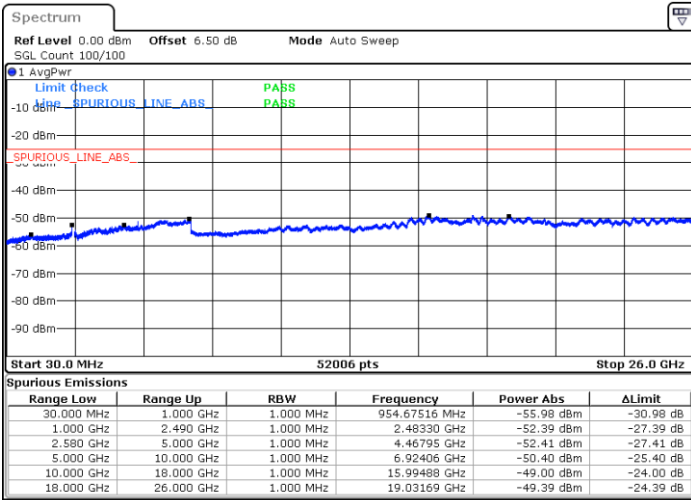
Date: 2.AUG.2023 10:42:03



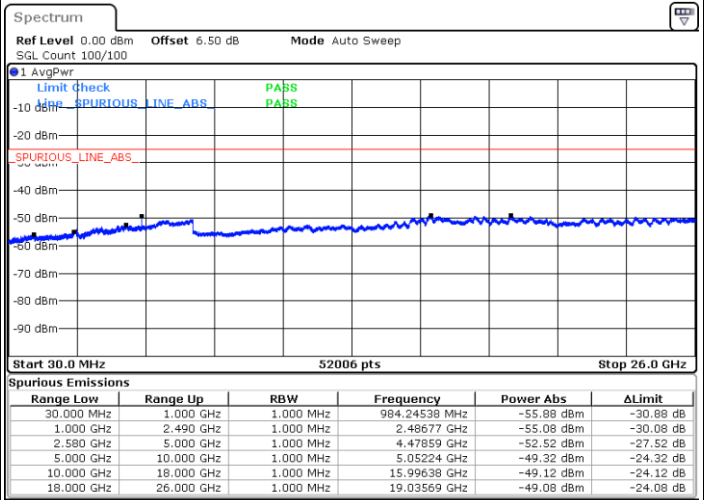
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

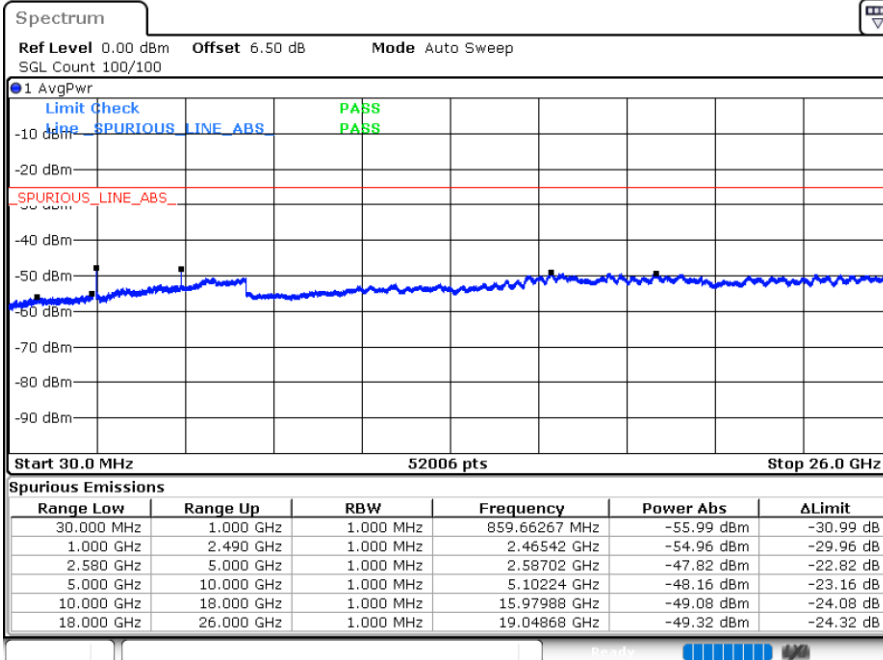


Date: 2.AUG.2023 11:04:55



Date: 2.AUG.2023 11:06:14

Highest Channel / QPSK



Date: 2.AUG.2023 11:07:33



Frequency Stability

| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|------------------|-----------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0021 | PASS |
| 40 | Normal Voltage | 0.0009 | |
| 30 | Normal Voltage | 0.0025 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0017 | |
| 0 | Normal Voltage | 0.0023 | |
| -10 | Normal Voltage | 0.0016 | |
| -20 | Normal Voltage | 0.0005 | |
| -30 | Normal Voltage | 0.0019 | |
| 20 | Maximum Voltage | 0.0021 | |
| 20 | Normal Voltage | 0.0015 | |
| 20 | Minimum Voltage | 0.0028 | |

Note:

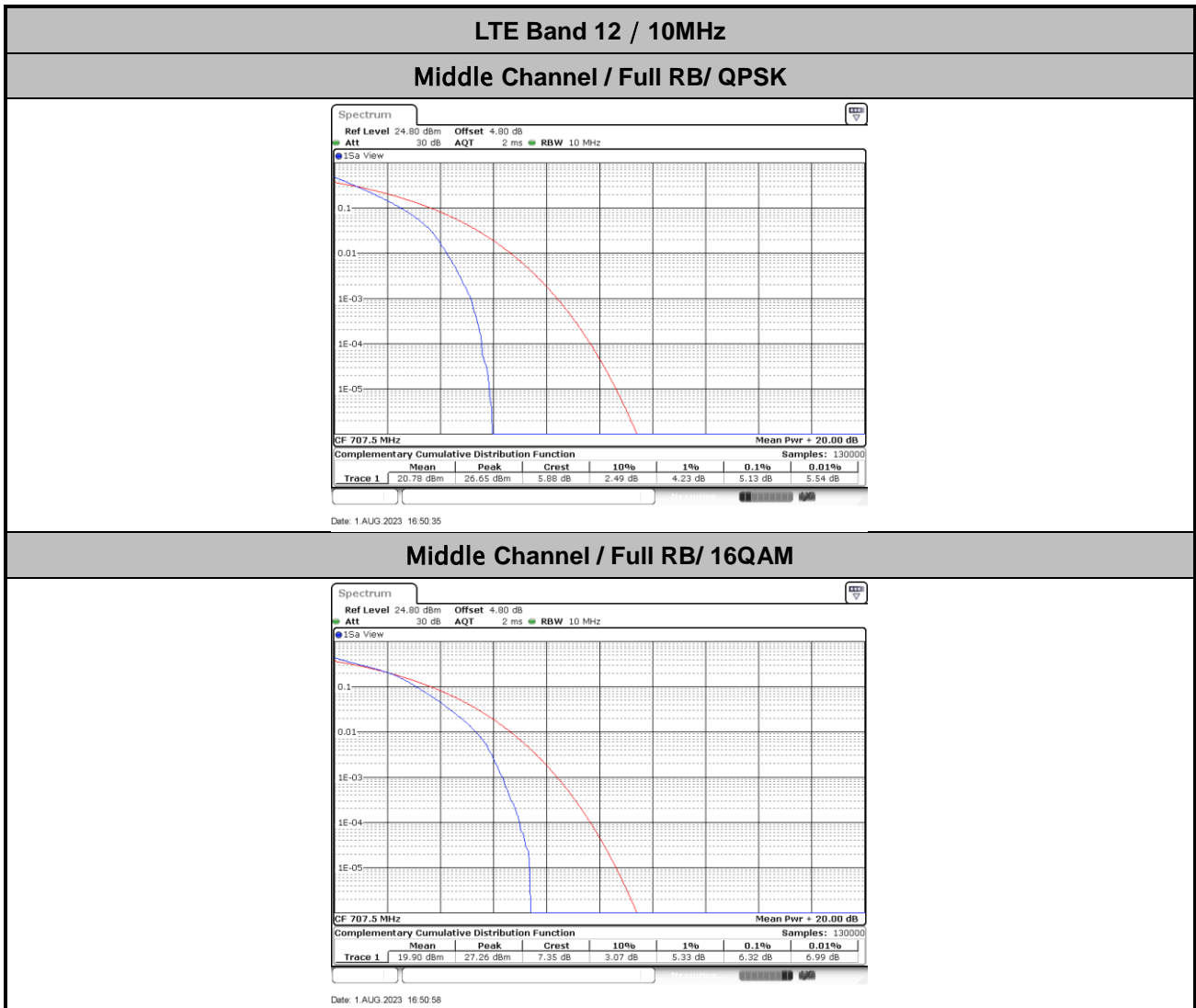
1. Normal Voltage =3.8 V. ; Minimum Voltage =3.5 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

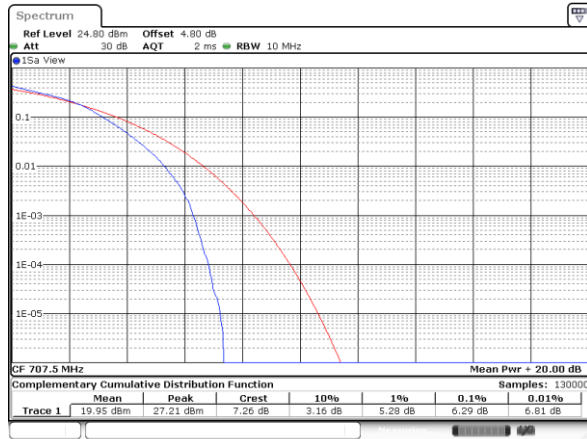
Peak-to-Average Ratio

| Mode | LTE Band 12 / 10MHz | | | | |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 5.13 | 6.32 | 6.29 | 6.32 | PASS |



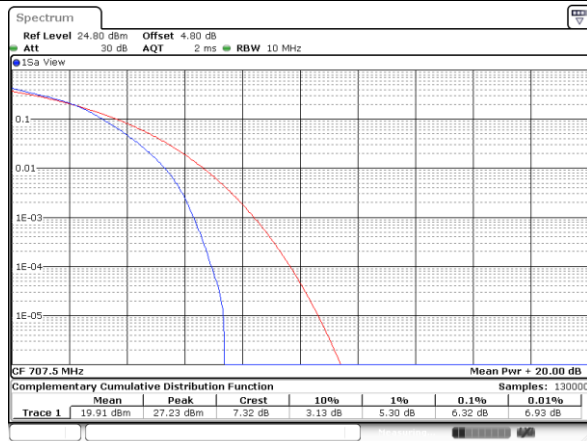


Middle Channel / Full RB/ 64QAM



Date: 1 AUG 2023 16:51:22

Middle Channel / Full RB/ 256QAM



Date: 1 AUG 2023 16:51:45



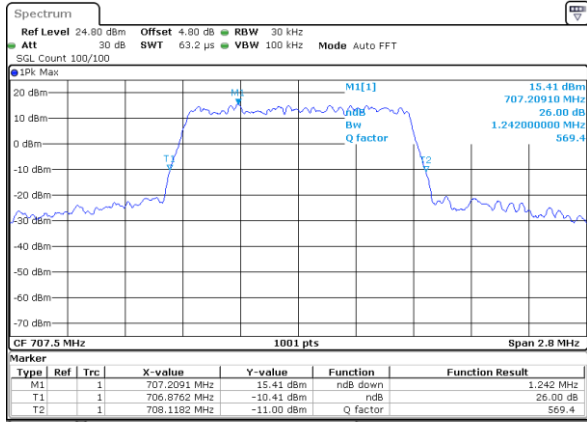
26dB Bandwidth

| Mode | LTE Band 12 : 26dB BW(MHz) | |
|------------------|----------------------------|--------------|
| BW | 1.4MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 1.24 | 1.23 |
| BW | 3MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 3.03 | 3.07 |
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.94 | 4.92 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.79 | 9.67 |



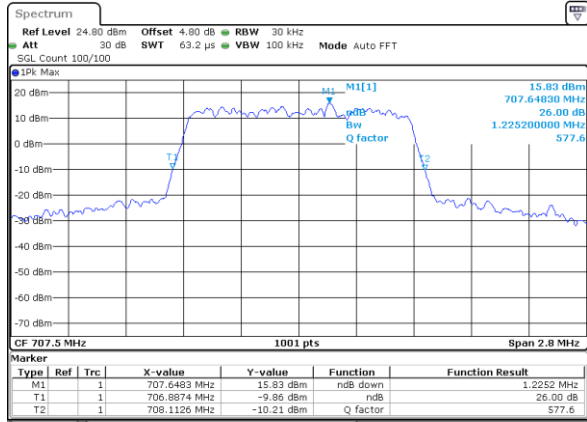
LTE Band 12

Middle Channel / 1.4MHz / QPSK



Date: 1 AUG 2023 17:03:03

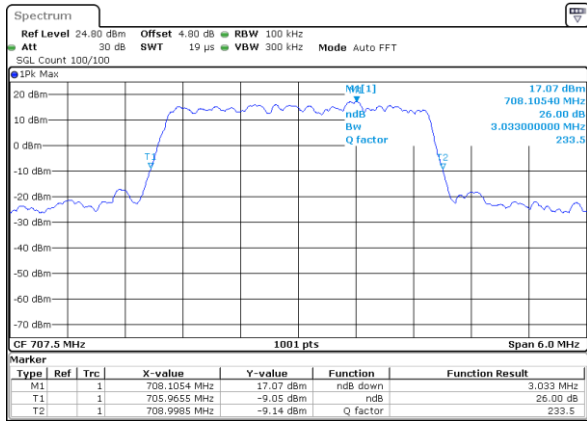
Middle Channel / 1.4MHz / 16QAM



Date: 1 AUG 2023 17:03:24

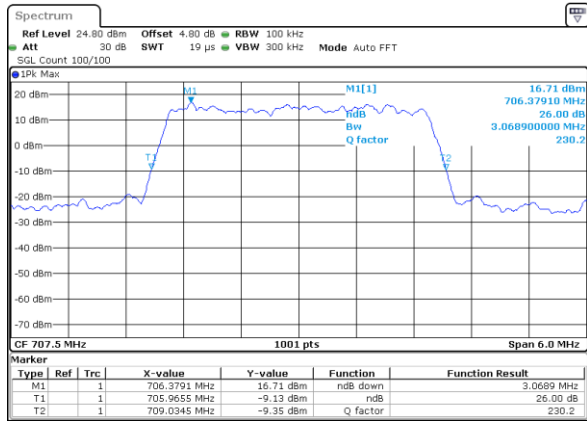
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 1 AUG 2023 17:01:01

Middle Channel / 3MHz / 16QAM

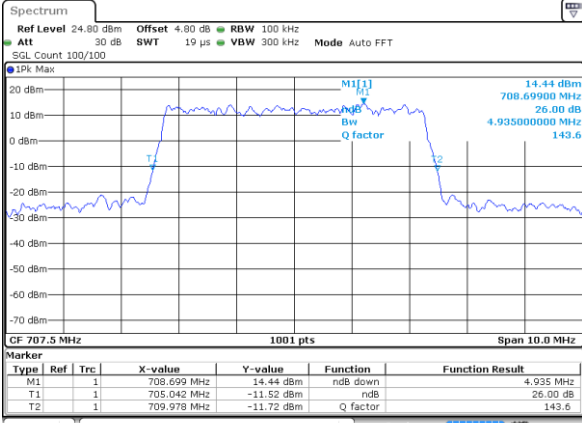


Date: 1 AUG 2023 17:01:22



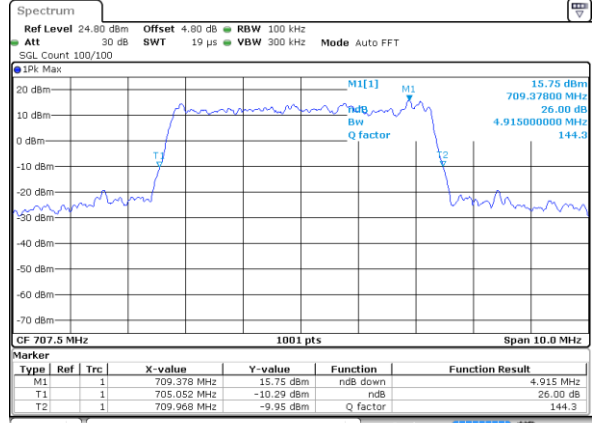
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 1 AUG 2023 16:59:36

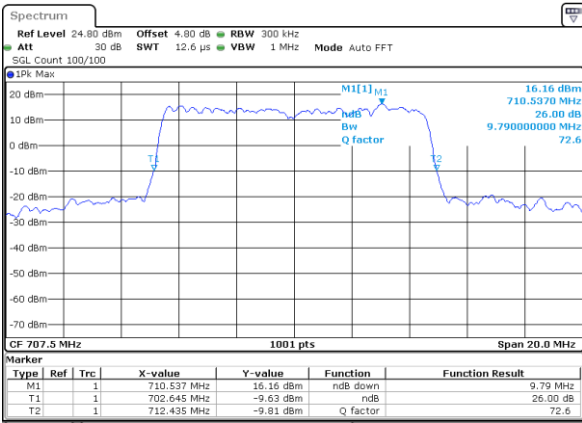
Middle Channel / 5MHz / 16QAM



Date: 1 AUG 2023 16:59:57

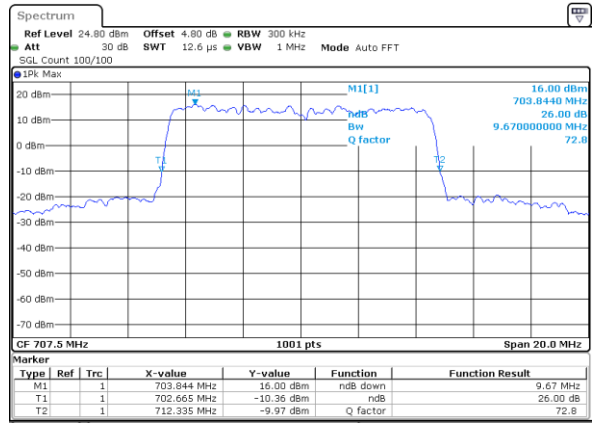
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 1 AUG 2023 16:58:32

Middle Channel / 10MHz / 16QAM

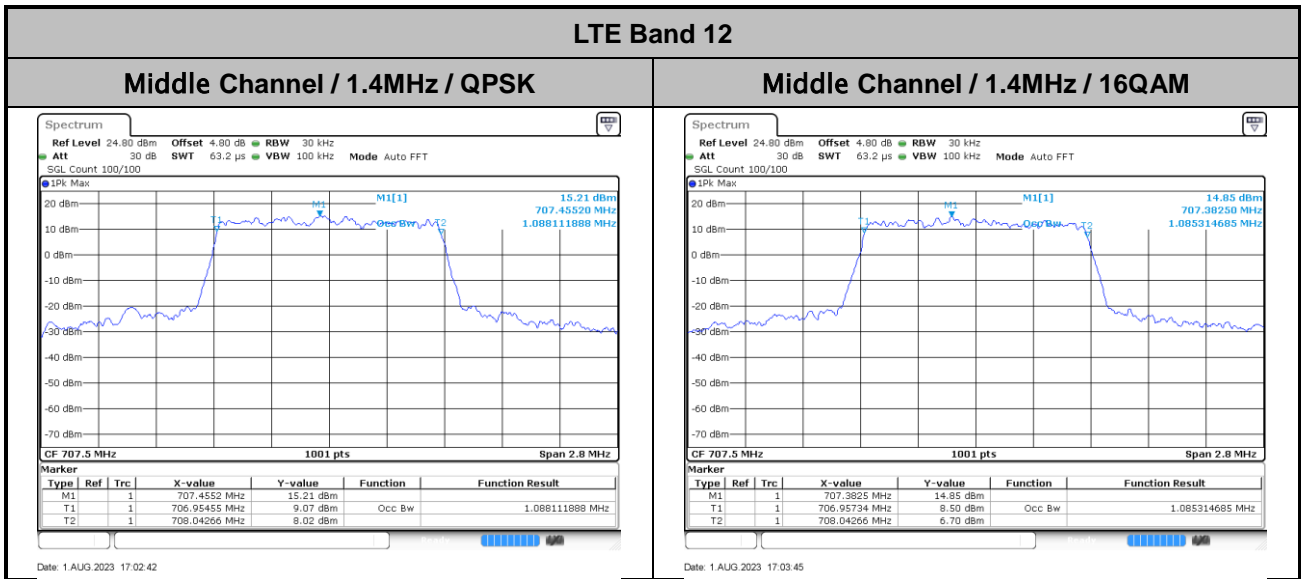


Date: 1 AUG 2023 16:58:53



Occupied Bandwidth

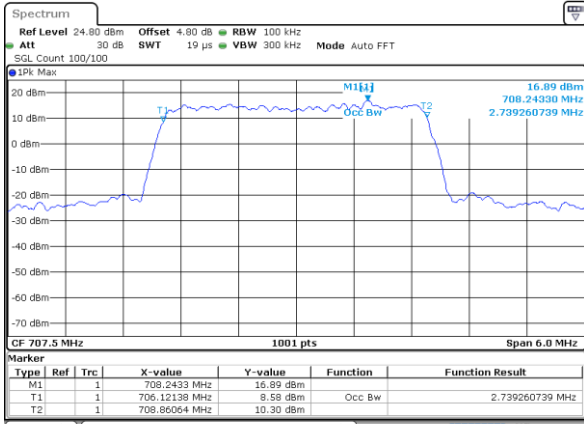
| Mode | LTE Band 12 : 99%OBW(MHz) | |
|-----------|---------------------------|-------|
| BW | 1.4MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 1.09 | 1.09 |
| BW | 3MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 2.74 | 2.73 |
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.49 | 4.51 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.11 | 9.03 |





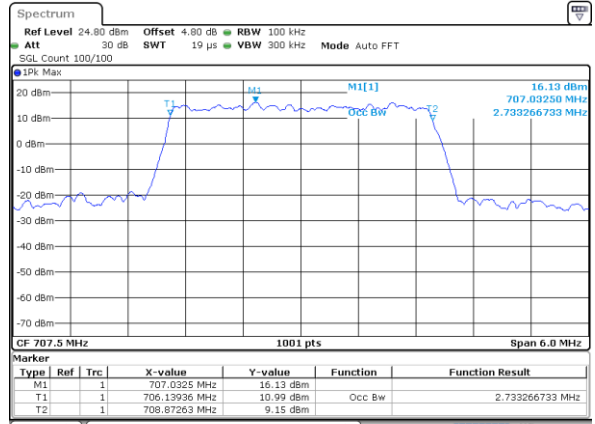
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 1 AUG 2023 17:00:40

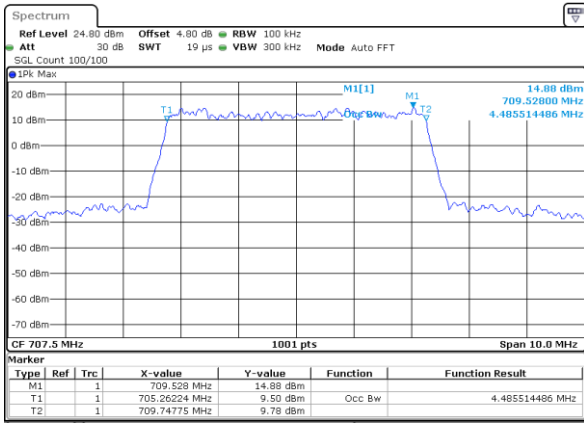
Middle Channel / 3MHz / 16QAM



Date: 1 AUG 2023 17:01:43

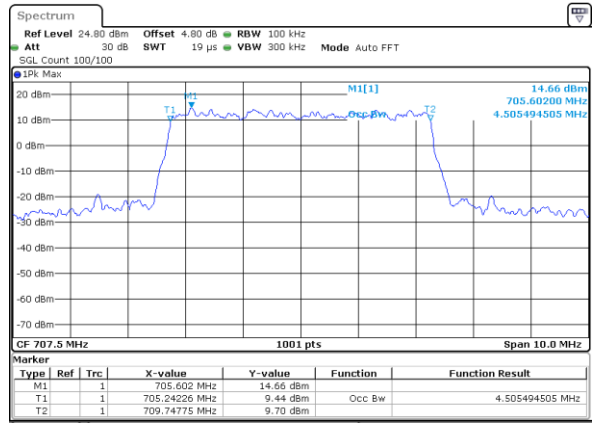
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 1 AUG 2023 16:59:15

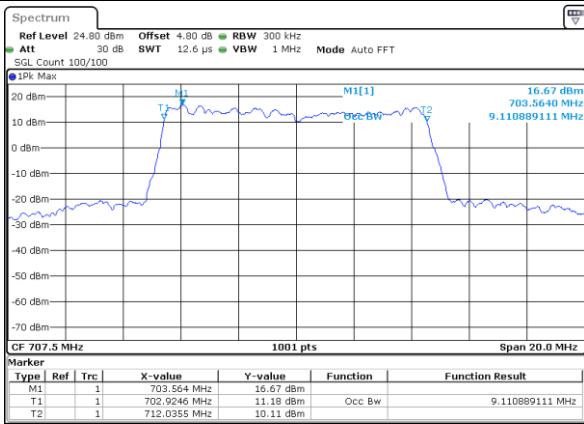
Middle Channel / 5MHz / 16QAM



Date: 1 AUG 2023 17:00:18

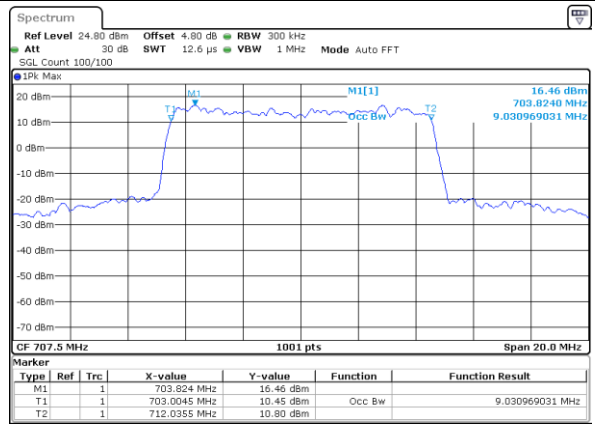
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 1 AUG 2023 16:57:50

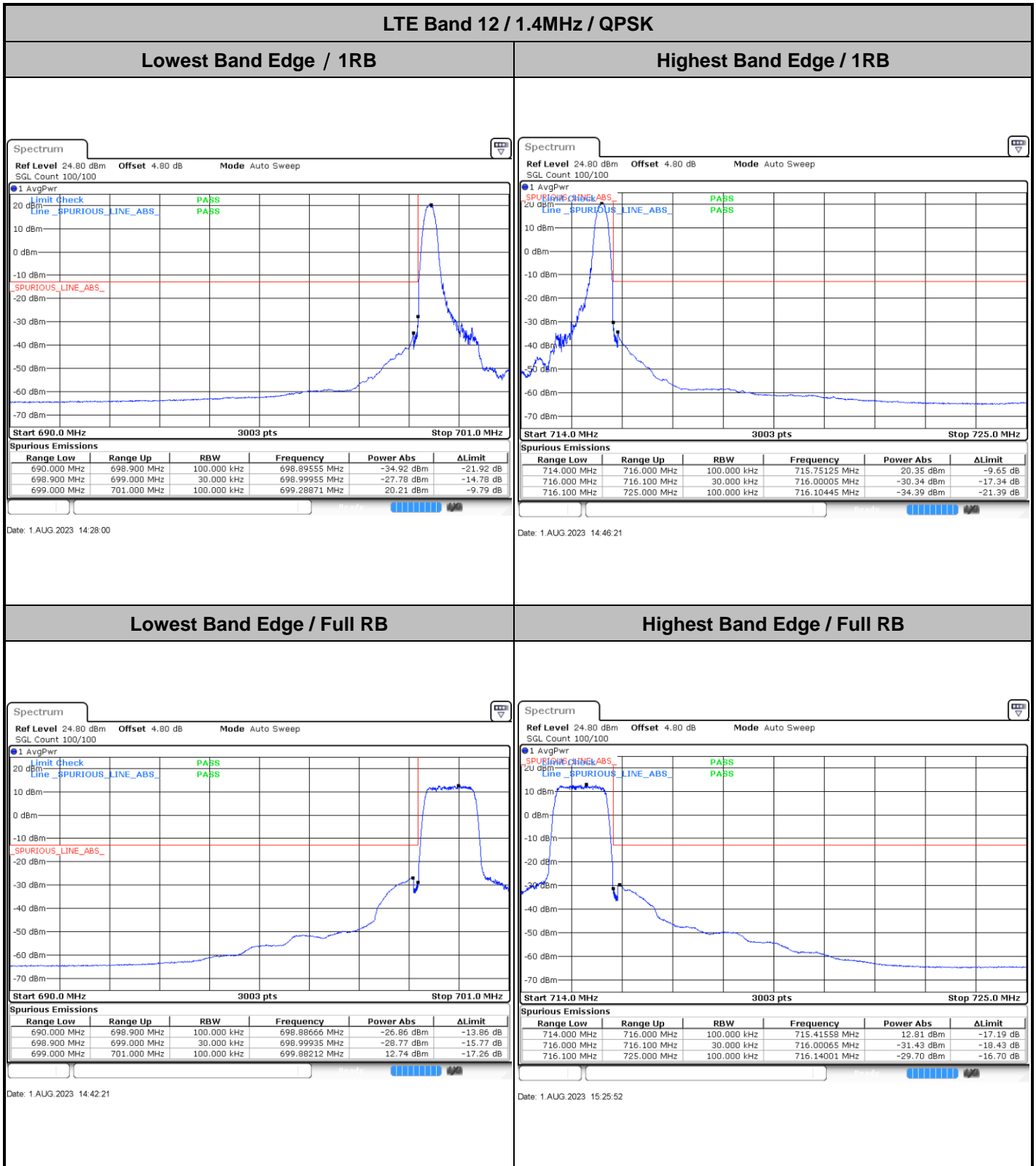
Middle Channel / 10MHz / 16QAM



Date: 1 AUG 2023 16:58:11



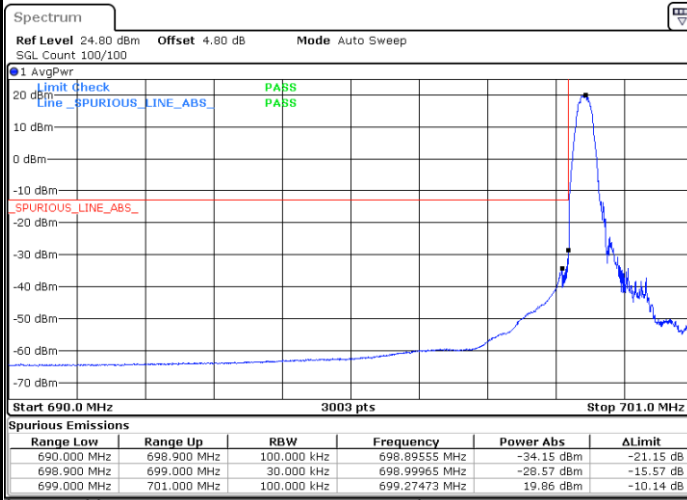
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



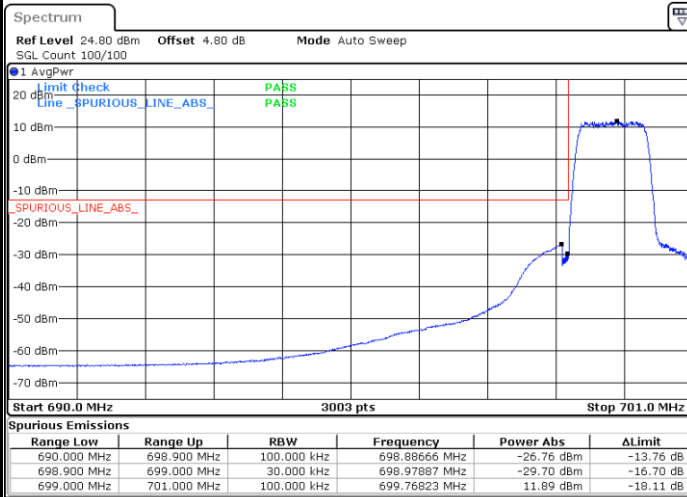
Date: 1 AUG 2023 14:29:20

Highest Band Edge / 1 RB



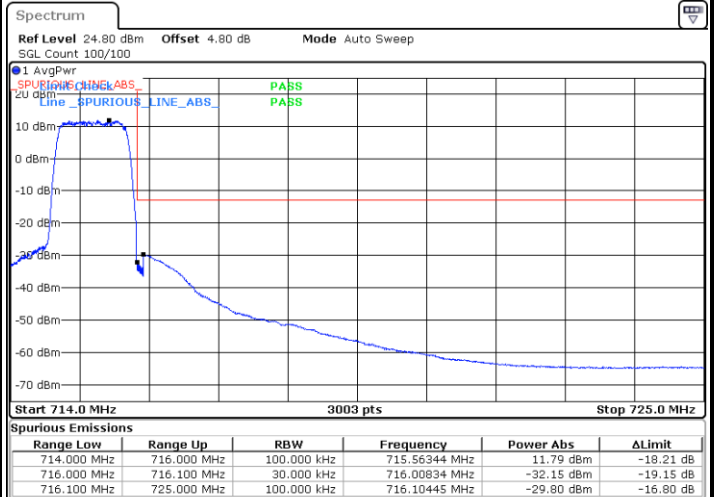
Date: 1 AUG 2023 14:47:41

Lowest Band Edge / Full RB



Date: 1 AUG 2023 14:41:02

Highest Band Edge / Full RB

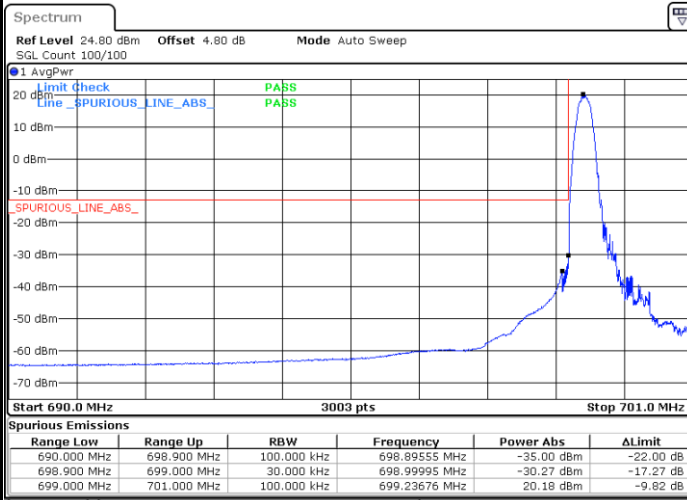


Date: 1 AUG 2023 15:27:12



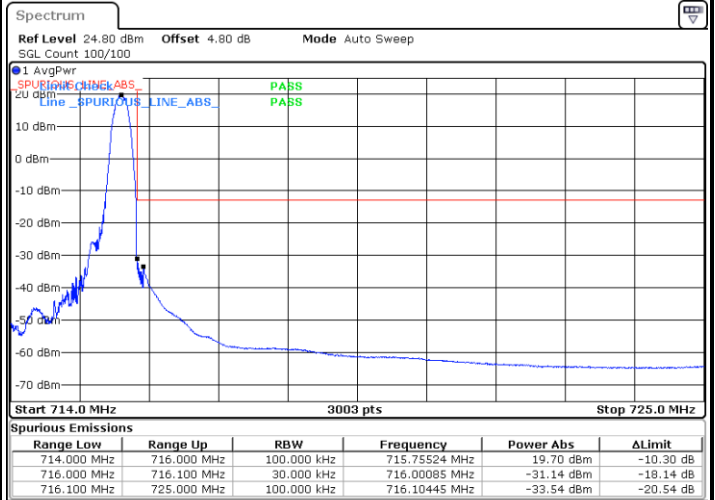
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



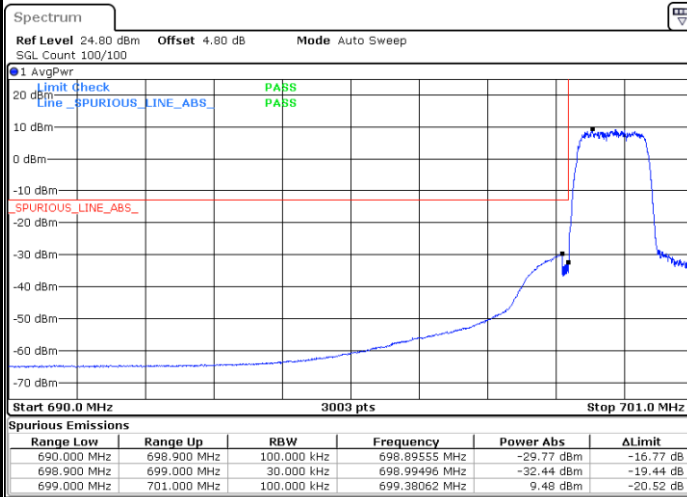
Date: 1 AUG 2023 14:30:39

Highest Band Edge / 1 RB



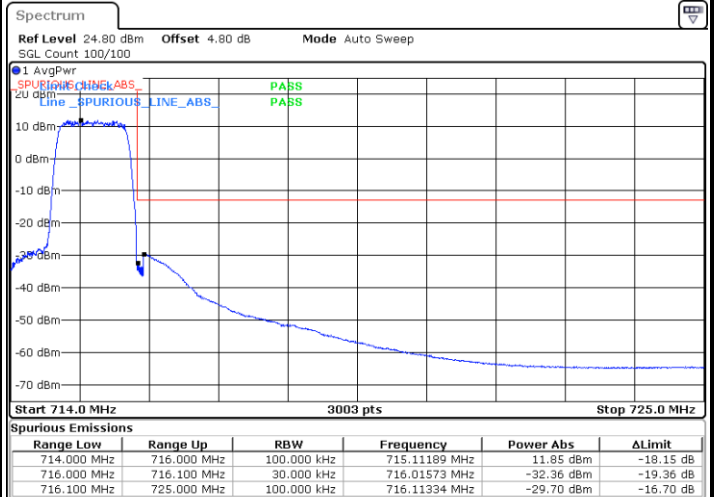
Date: 1 AUG 2023 14:49:01

Lowest Band Edge / Full RB



Date: 1 AUG 2023 14:39:09

Highest Band Edge / Full RB

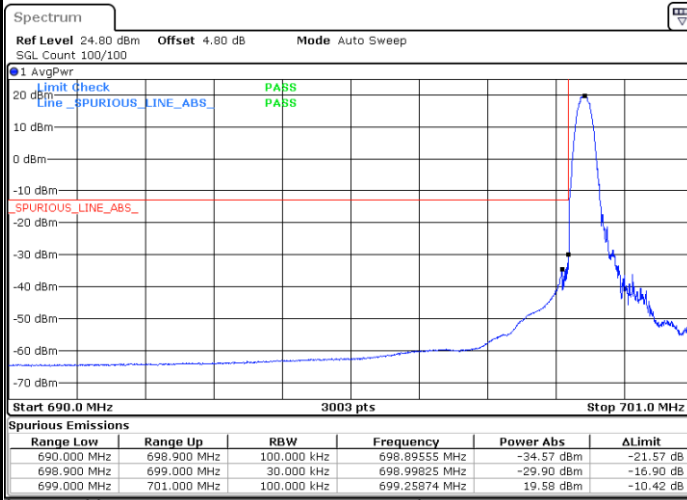


Date: 1 AUG 2023 15:28:32



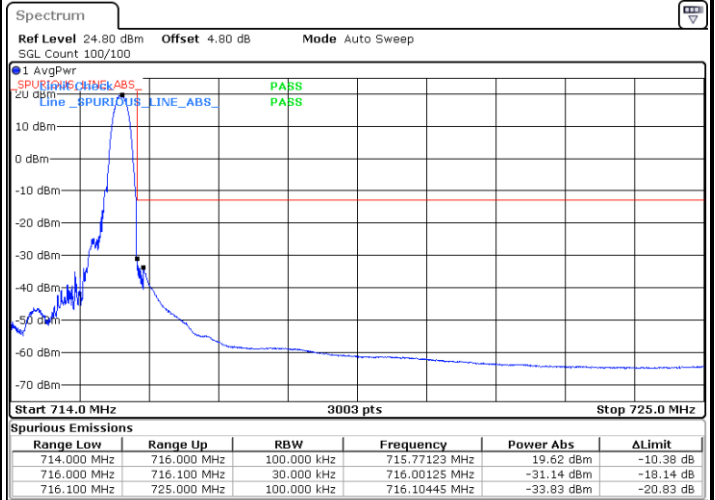
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



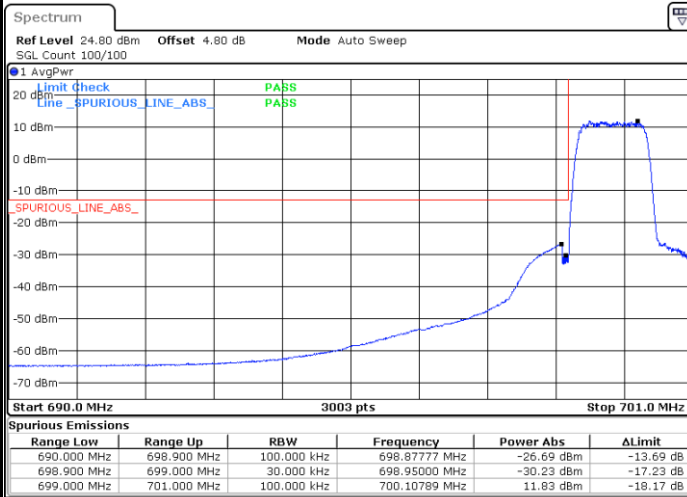
Date: 1 AUG 2023 14:31:59

Highest Band Edge / 1 RB



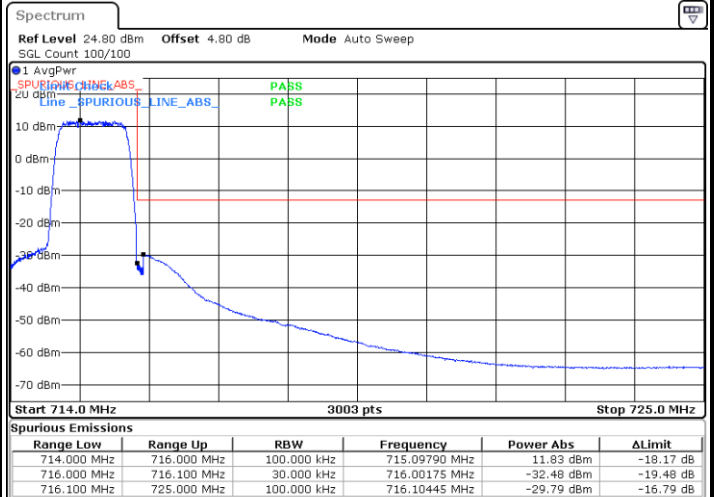
Date: 1 AUG 2023 14:50:21

Lowest Band Edge / Full RB



Date: 1 AUG 2023 14:34:23

Highest Band Edge / Full RB

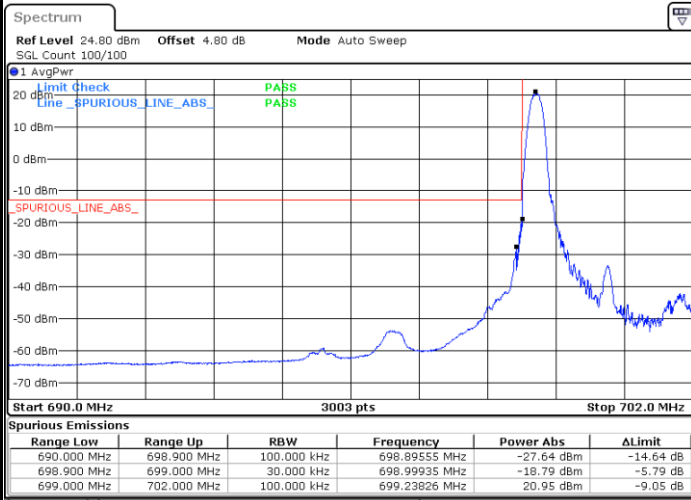


Date: 1 AUG 2023 15:29:52



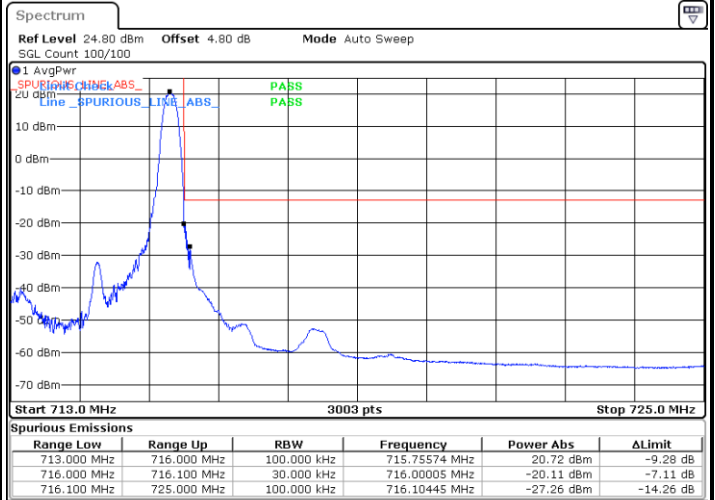
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



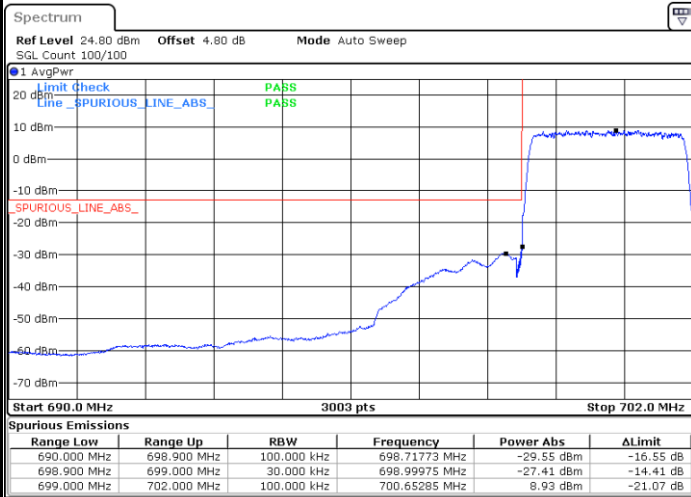
Date: 1 AUG 2023 15:32:53

Highest Band Edge / 1 RB



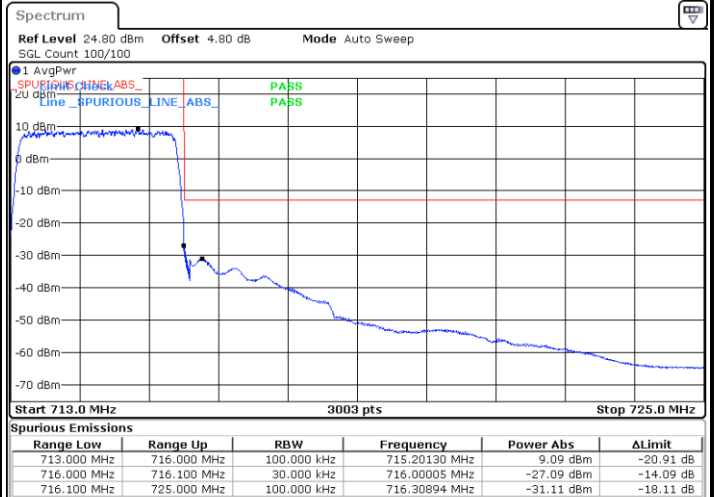
Date: 1 AUG 2023 15:47:06

Lowest Band Edge / Full RB



Date: 1 AUG 2023 15:39:17

Highest Band Edge / Full RB

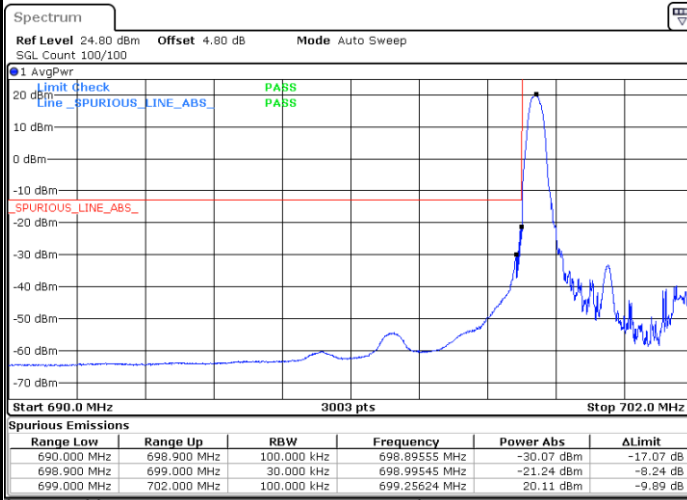


Date: 1 AUG 2023 15:52:17



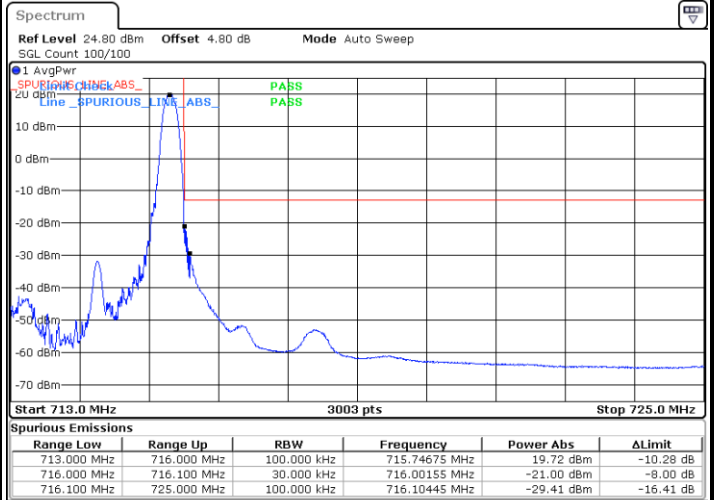
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



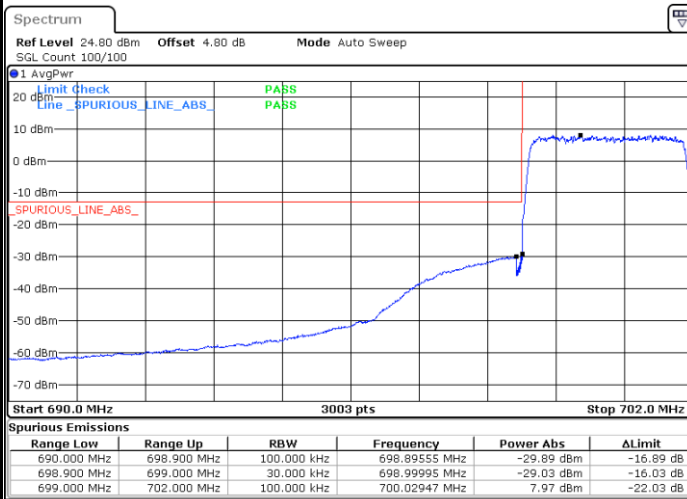
Date: 1 AUG 2023 15:34:13

Highest Band Edge / 1 RB



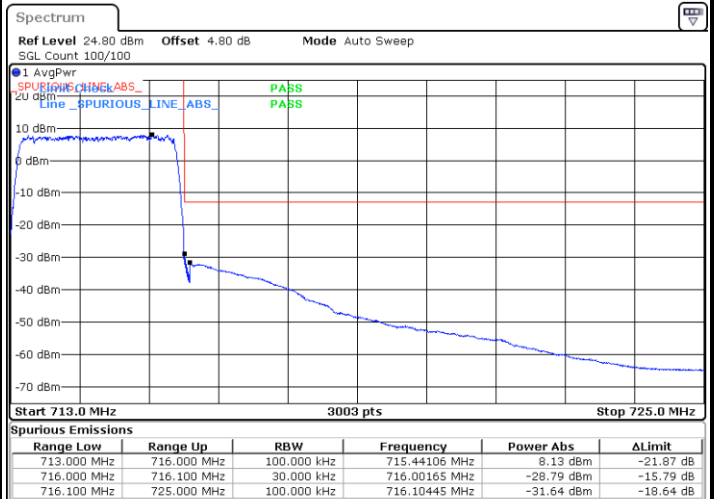
Date: 1 AUG 2023 15:48:16

Lowest Band Edge / Full RB



Date: 1 AUG 2023 15:40:27

Highest Band Edge / Full RB

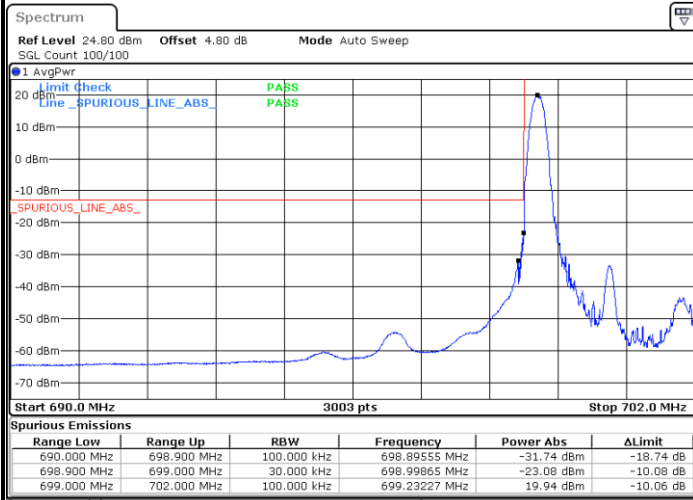


Date: 1 AUG 2023 15:53:26



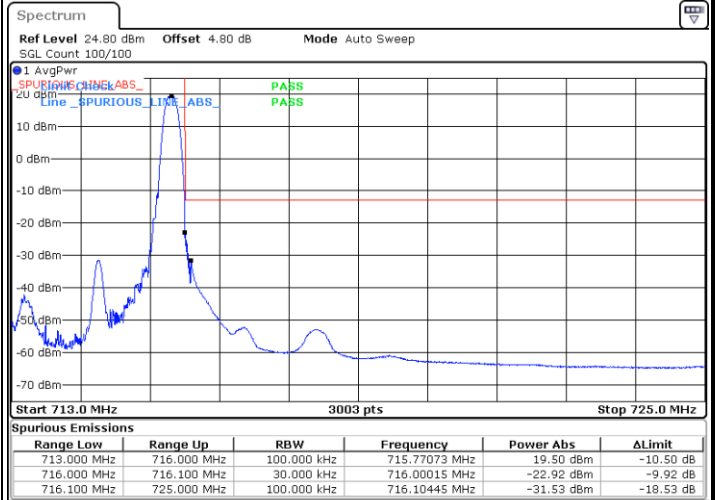
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



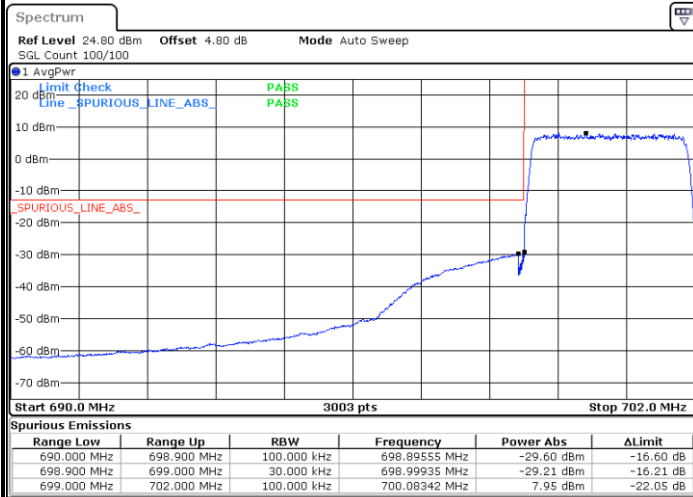
Date: 1 AUG 2023 15:35:33

Highest Band Edge / 1 RB



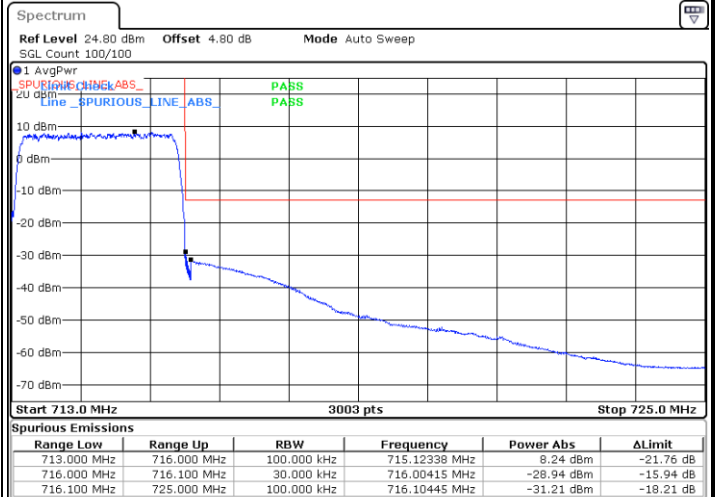
Date: 1 AUG 2023 15:49:26

Lowest Band Edge / Full RB



Date: 1 AUG 2023 15:41:37

Highest Band Edge / Full RB



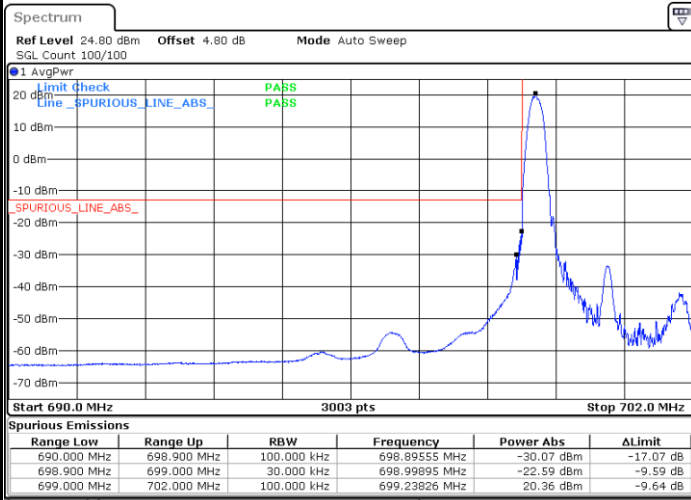
Date: 1 AUG 2023 15:54:36



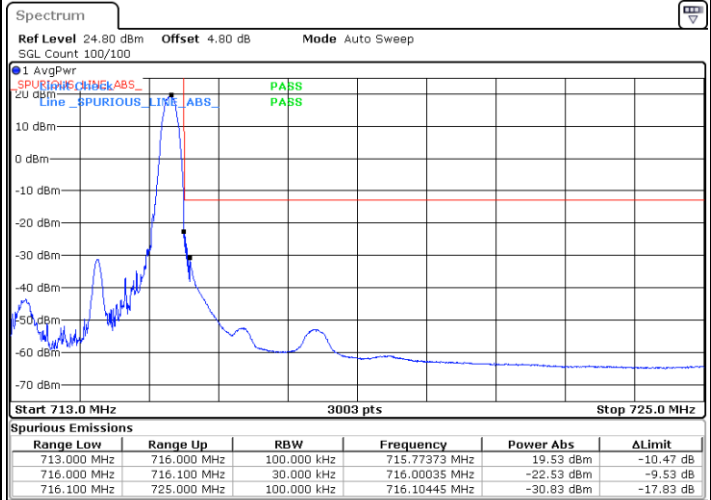
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



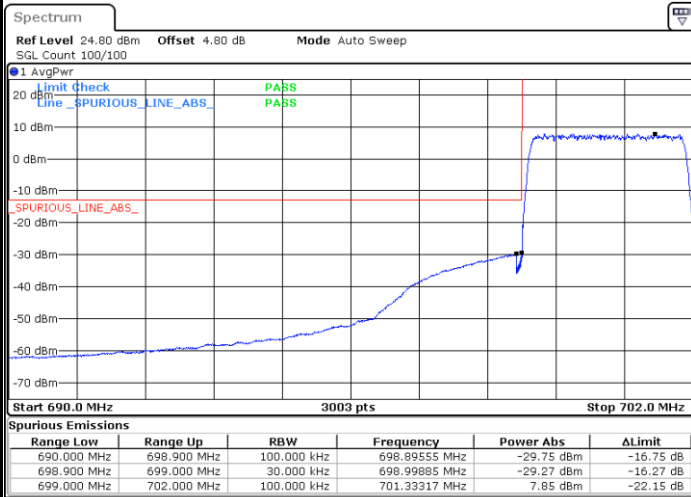
Date: 1 AUG 2023 15:36:53



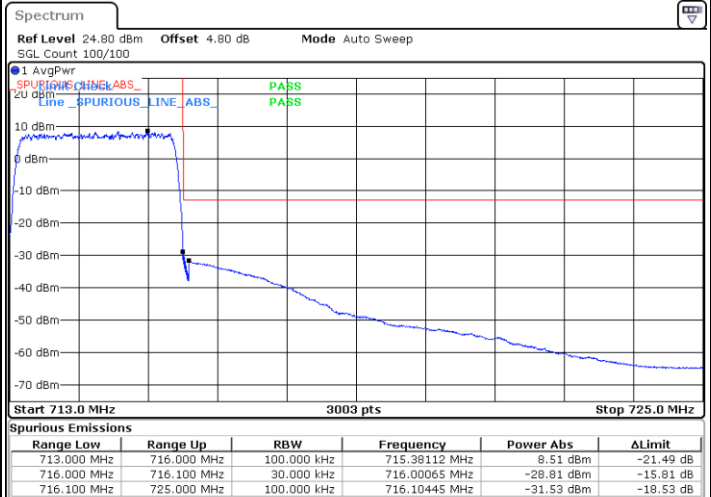
Date: 1 AUG 2023 15:50:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1 AUG 2023 15:42:47



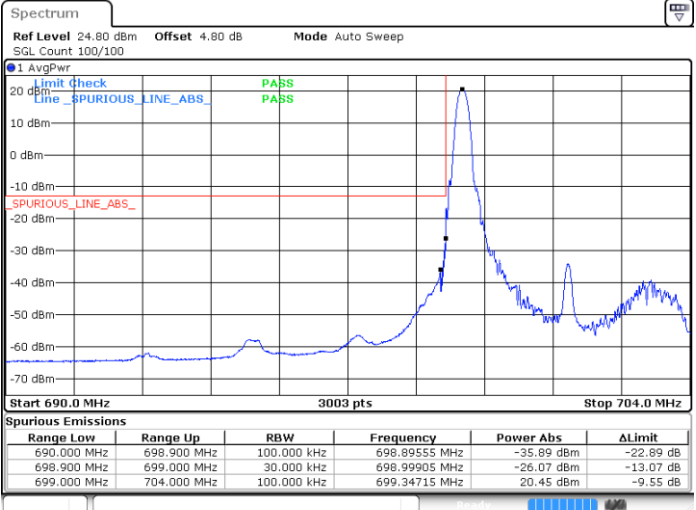
Date: 1 AUG 2023 15:55:46



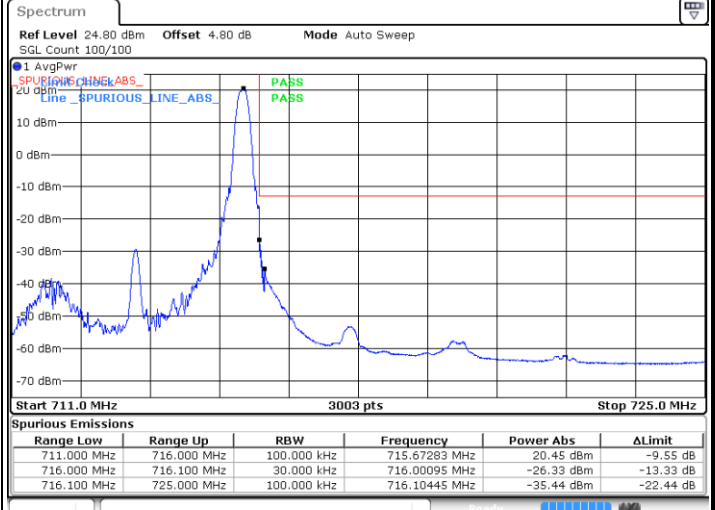
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



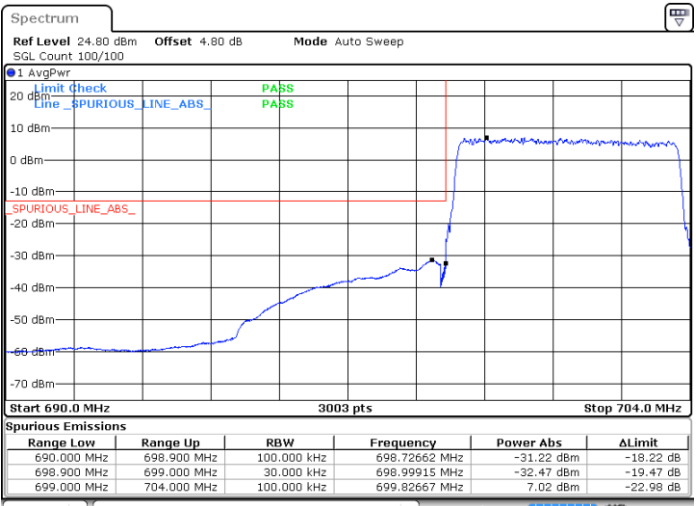
Date: 1 AUG 2023 15:58:49



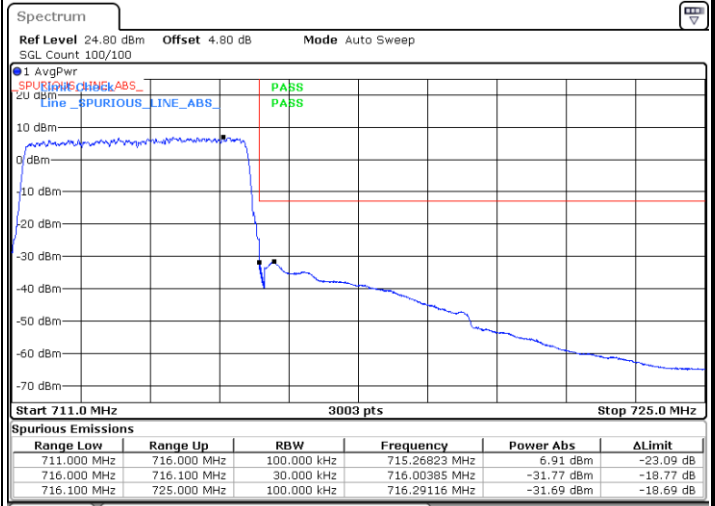
Date: 1 AUG 2023 16:14:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1 AUG 2023 16:05:01

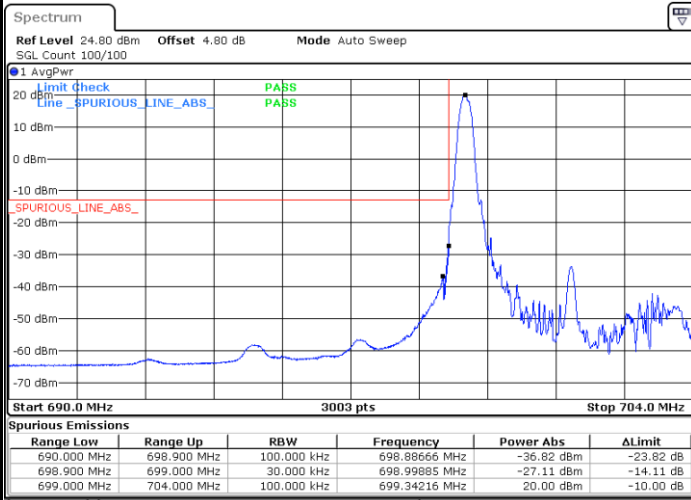


Date: 1 AUG 2023 16:20:05



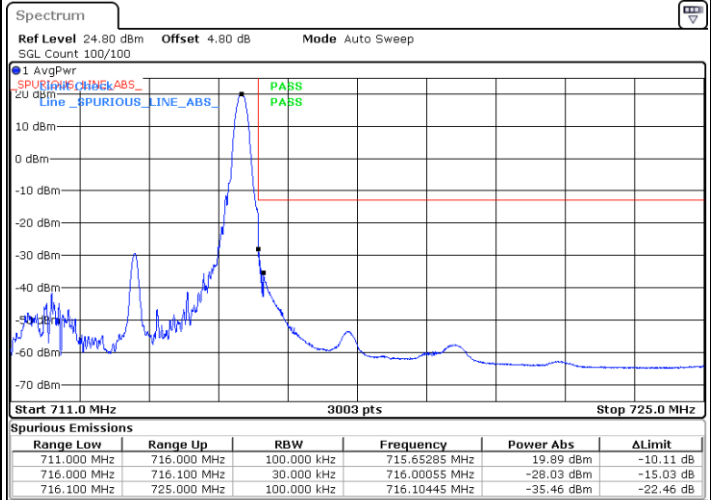
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



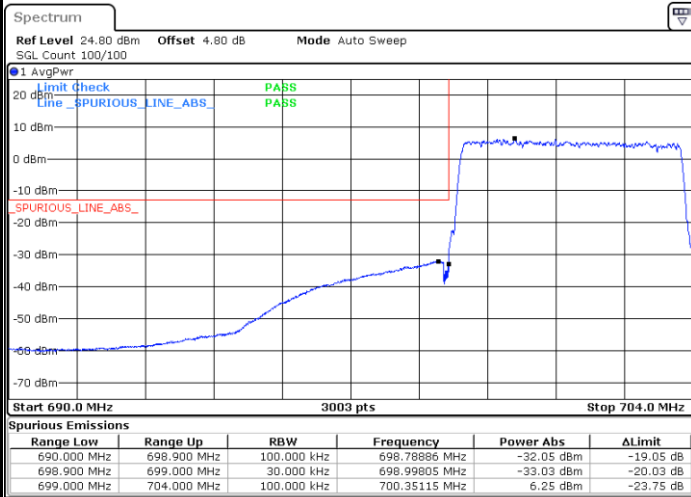
Date: 1 AUG 2023 15:59:59

Highest Band Edge / 1 RB



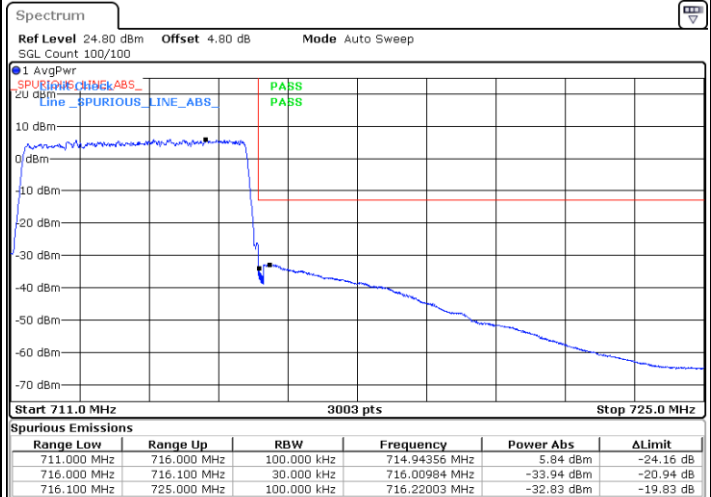
Date: 1 AUG 2023 16:16:06

Lowest Band Edge / Full RB



Date: 1 AUG 2023 16:06:11

Highest Band Edge / Full RB

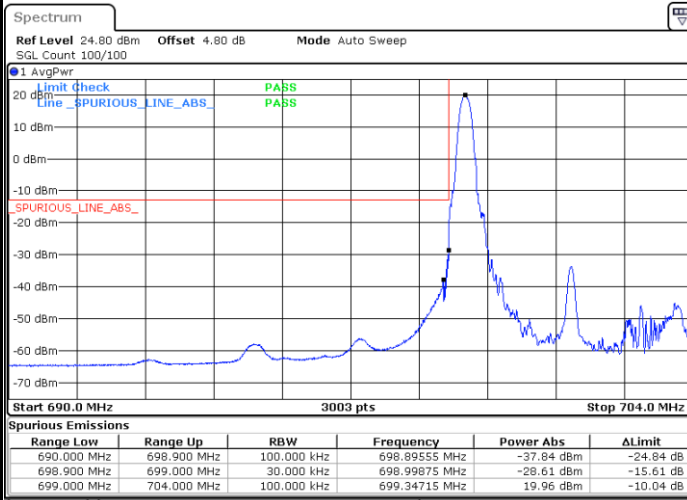


Date: 1 AUG 2023 16:21:15



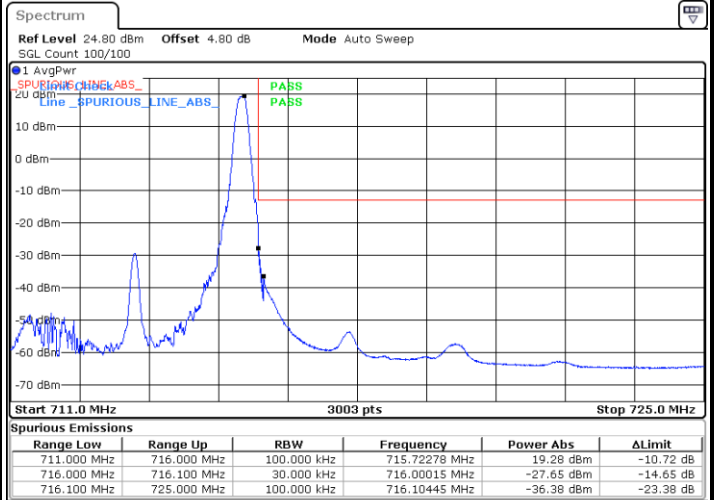
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



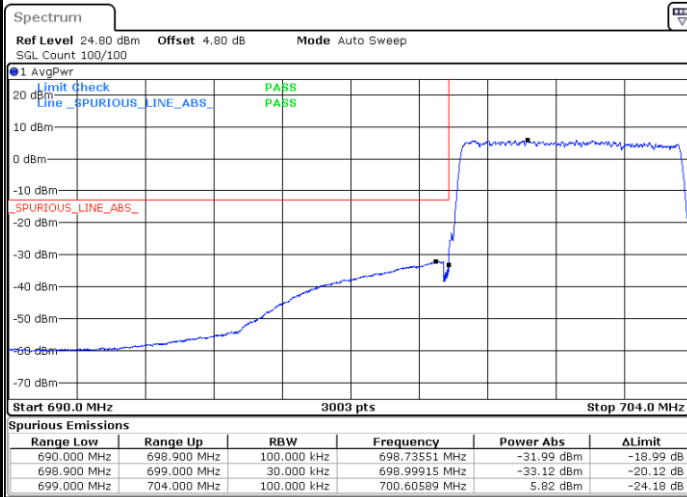
Date: 1 AUG 2023 16:01:09

Highest Band Edge / 1 RB



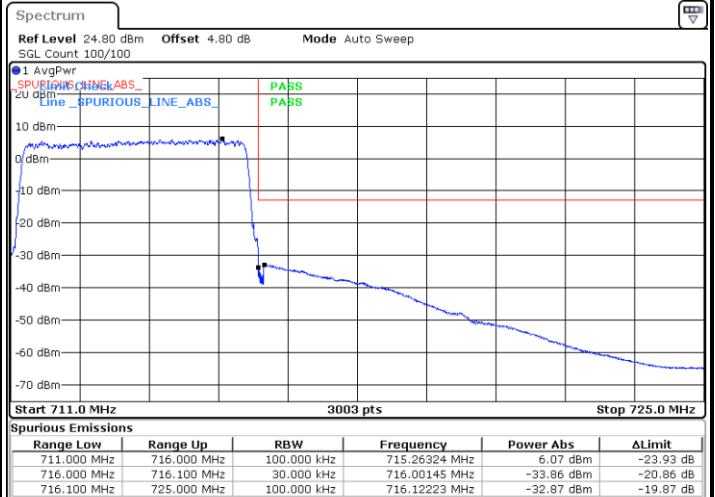
Date: 1 AUG 2023 16:17:16

Lowest Band Edge / Full RB



Date: 1 AUG 2023 16:07:21

Highest Band Edge / Full RB

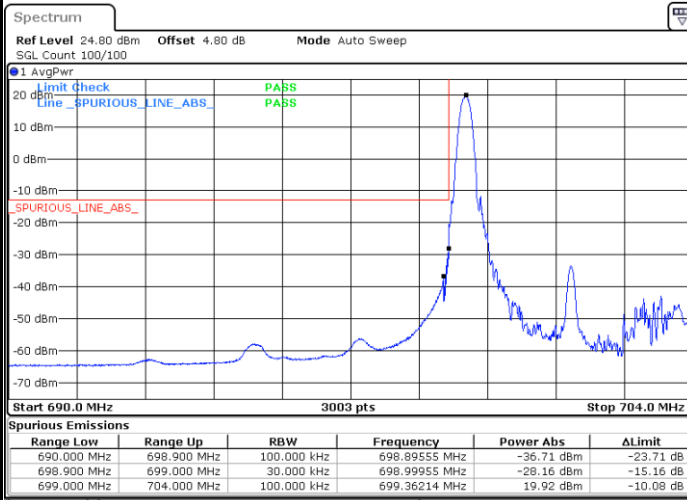


Date: 1 AUG 2023 16:22:25



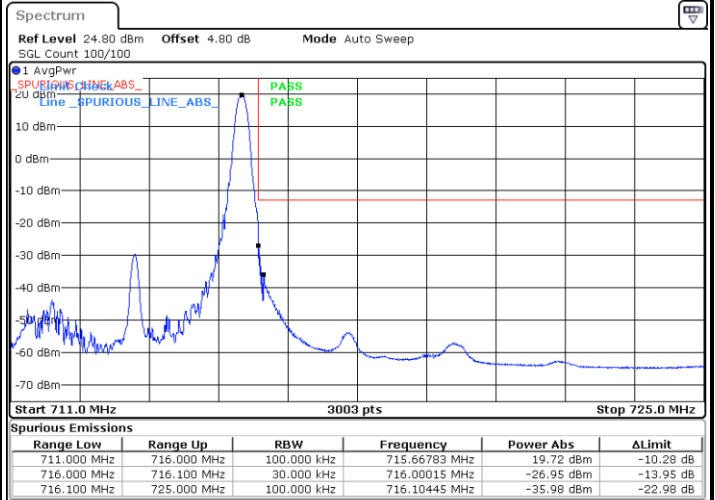
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



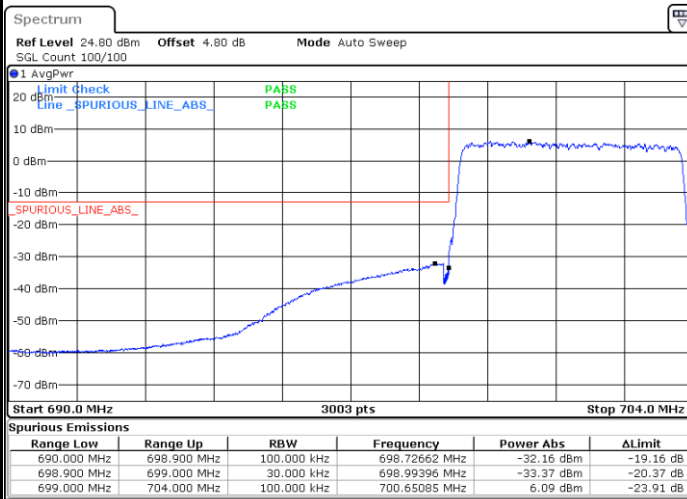
Date: 1 AUG 2023 16:02:19

Highest Band Edge / 1 RB



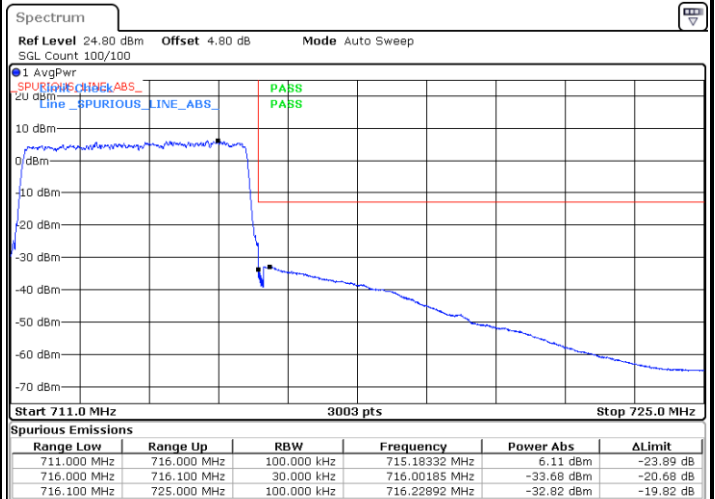
Date: 1 AUG 2023 16:18:26

Lowest Band Edge / Full RB



Date: 1 AUG 2023 16:10:04

Highest Band Edge / Full RB



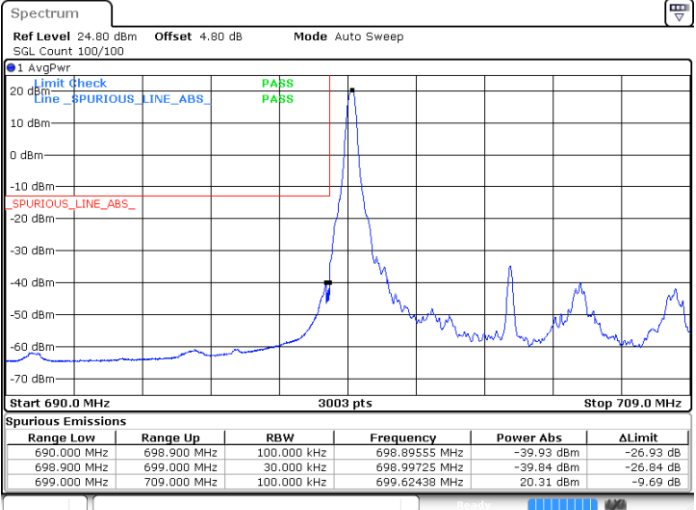
Date: 1 AUG 2023 16:23:35



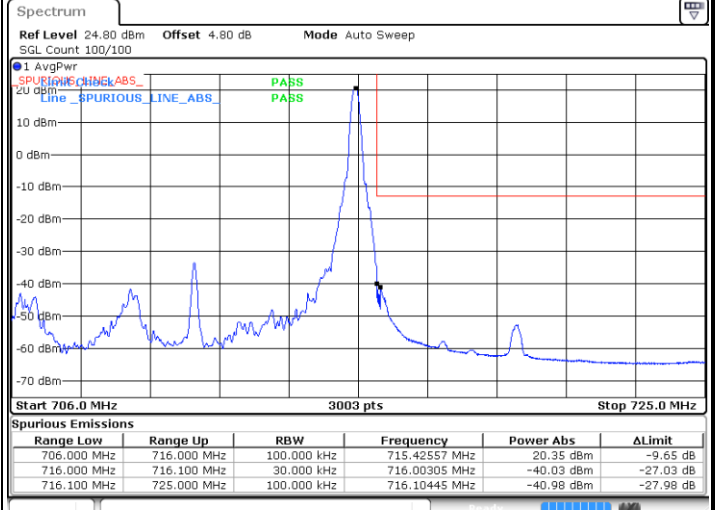
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



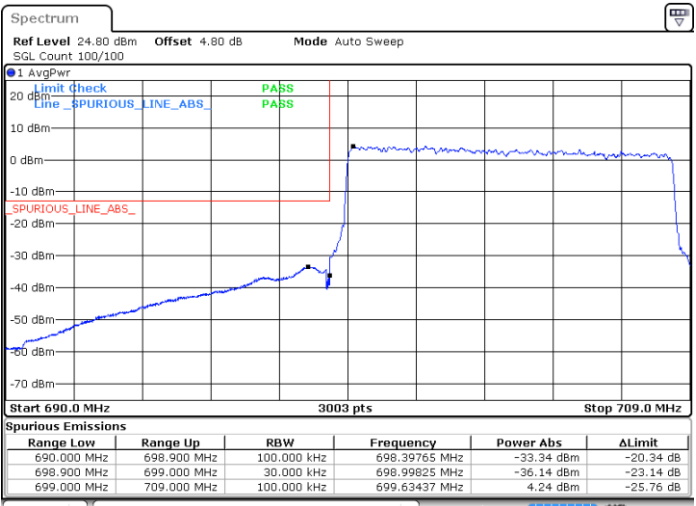
Date: 1 AUG 2023 16:26:36



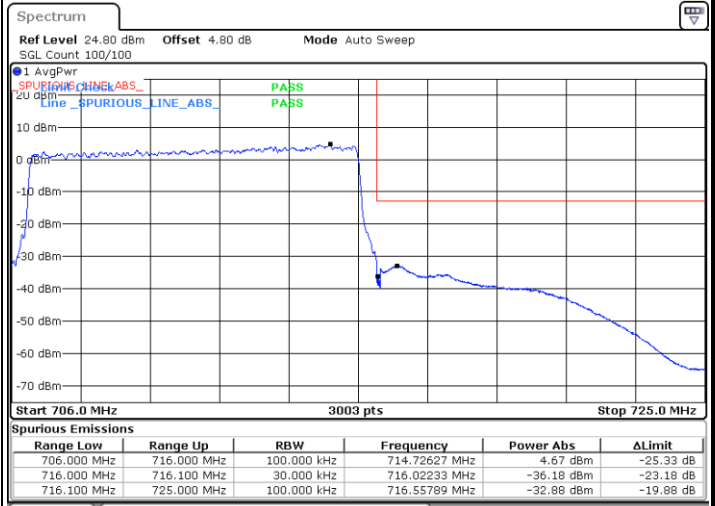
Date: 1 AUG 2023 16:40:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1 AUG 2023 16:31:48

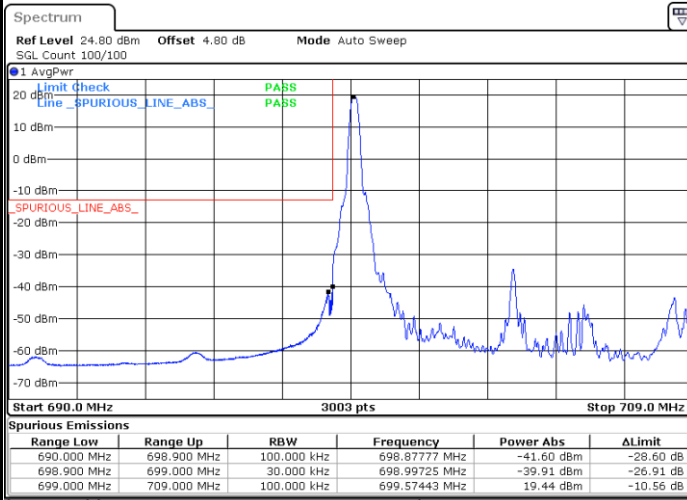


Date: 1 AUG 2023 16:45:32



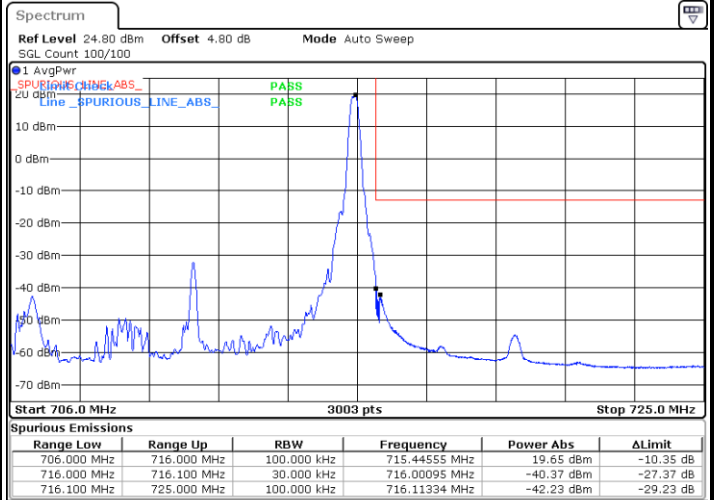
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



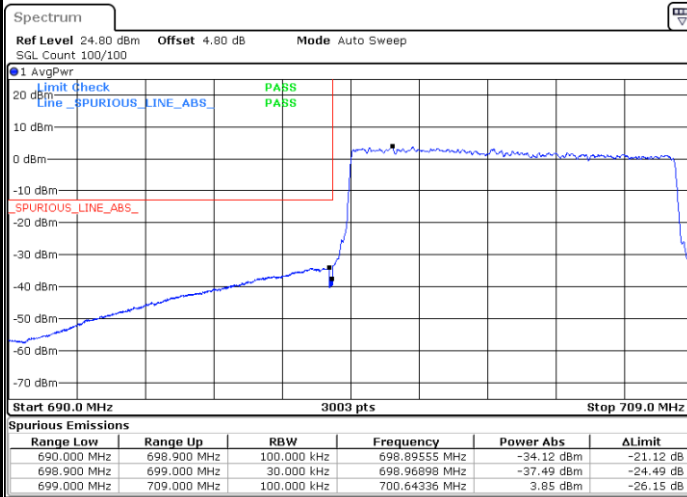
Date: 1 AUG 2023 16:27:47

Highest Band Edge / 1 RB



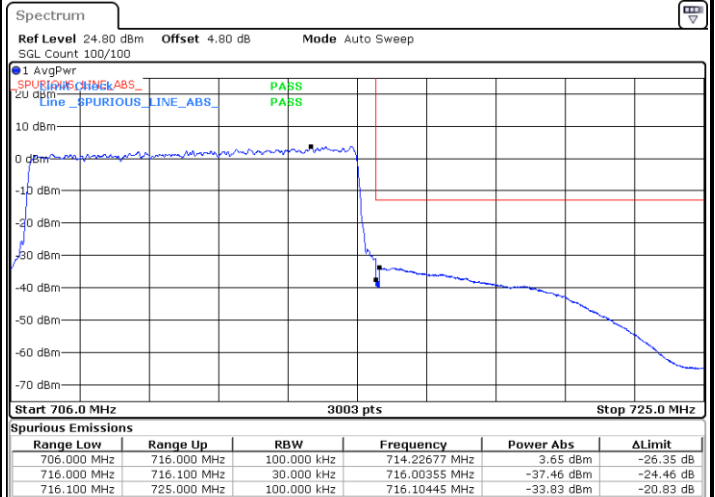
Date: 1 AUG 2023 16:41:13

Lowest Band Edge / Full RB



Date: 1 AUG 2023 16:32:58

Highest Band Edge / Full RB

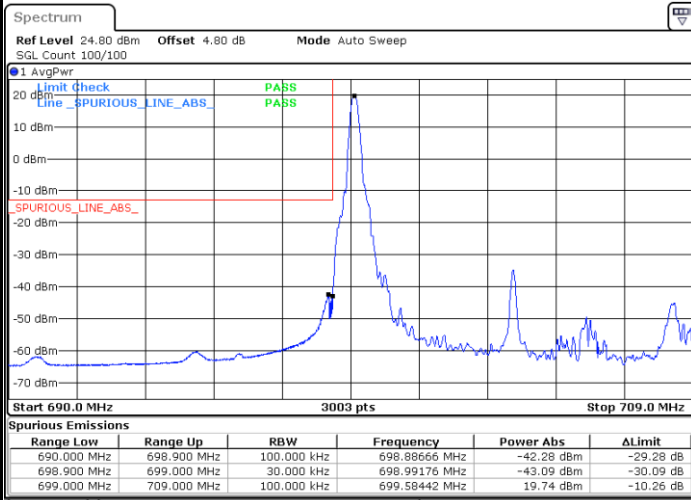


Date: 1 AUG 2023 16:46:42



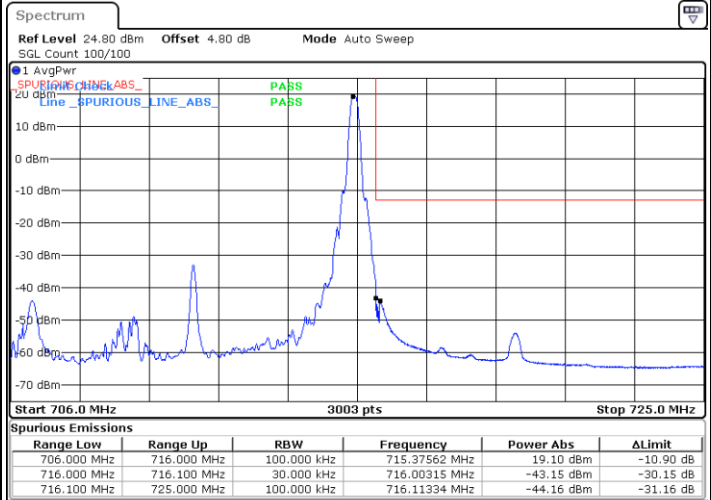
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



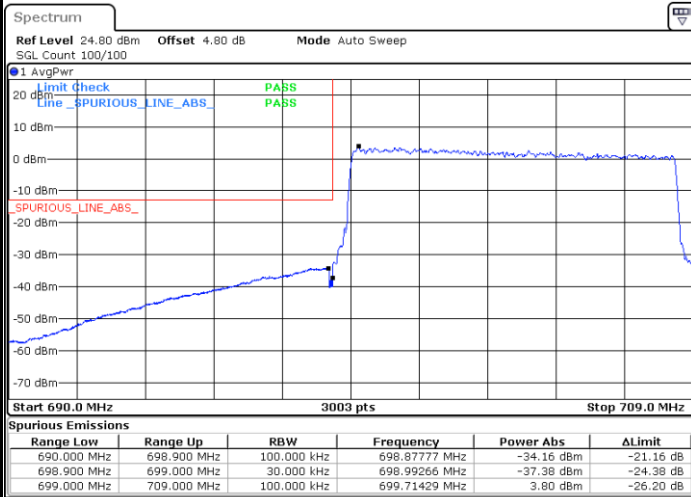
Date: 1 AUG 2023 16:28:57

Highest Band Edge / 1 RB



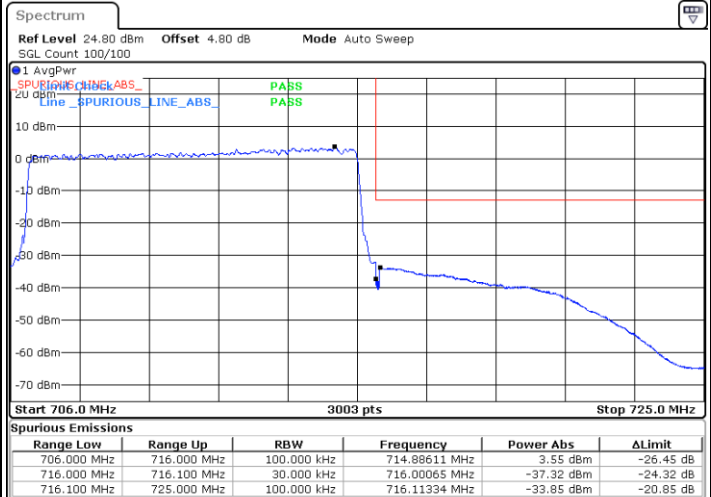
Date: 1 AUG 2023 16:42:23

Lowest Band Edge / Full RB



Date: 1 AUG 2023 16:34:08

Highest Band Edge / Full RB

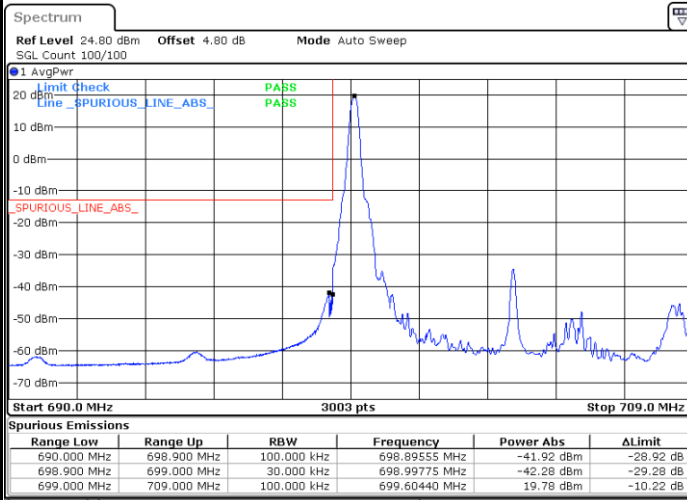


Date: 1 AUG 2023 16:47:52



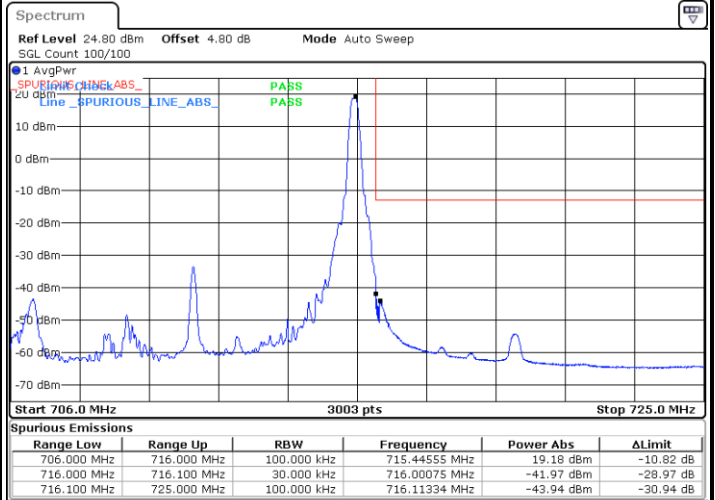
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



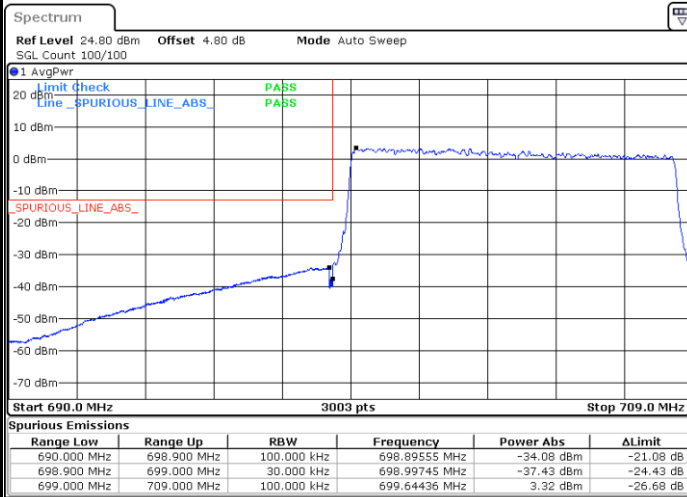
Date: 1 AUG 2023 16:30:07

Highest Band Edge / 1 RB



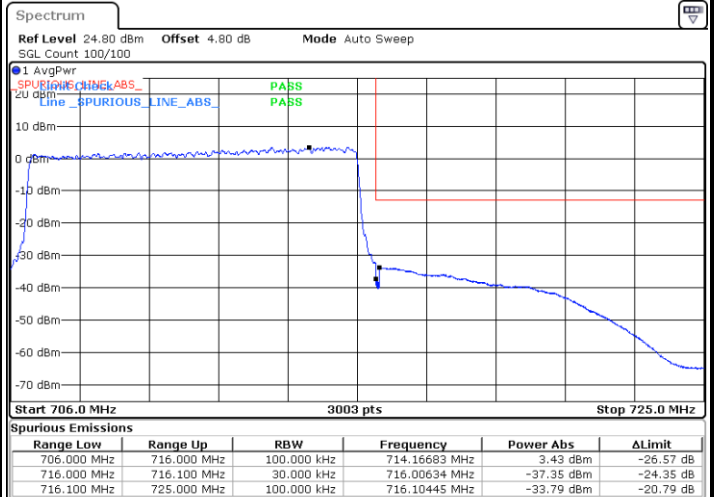
Date: 1 AUG 2023 16:43:33

Lowest Band Edge / Full RB



Date: 1 AUG 2023 16:35:18

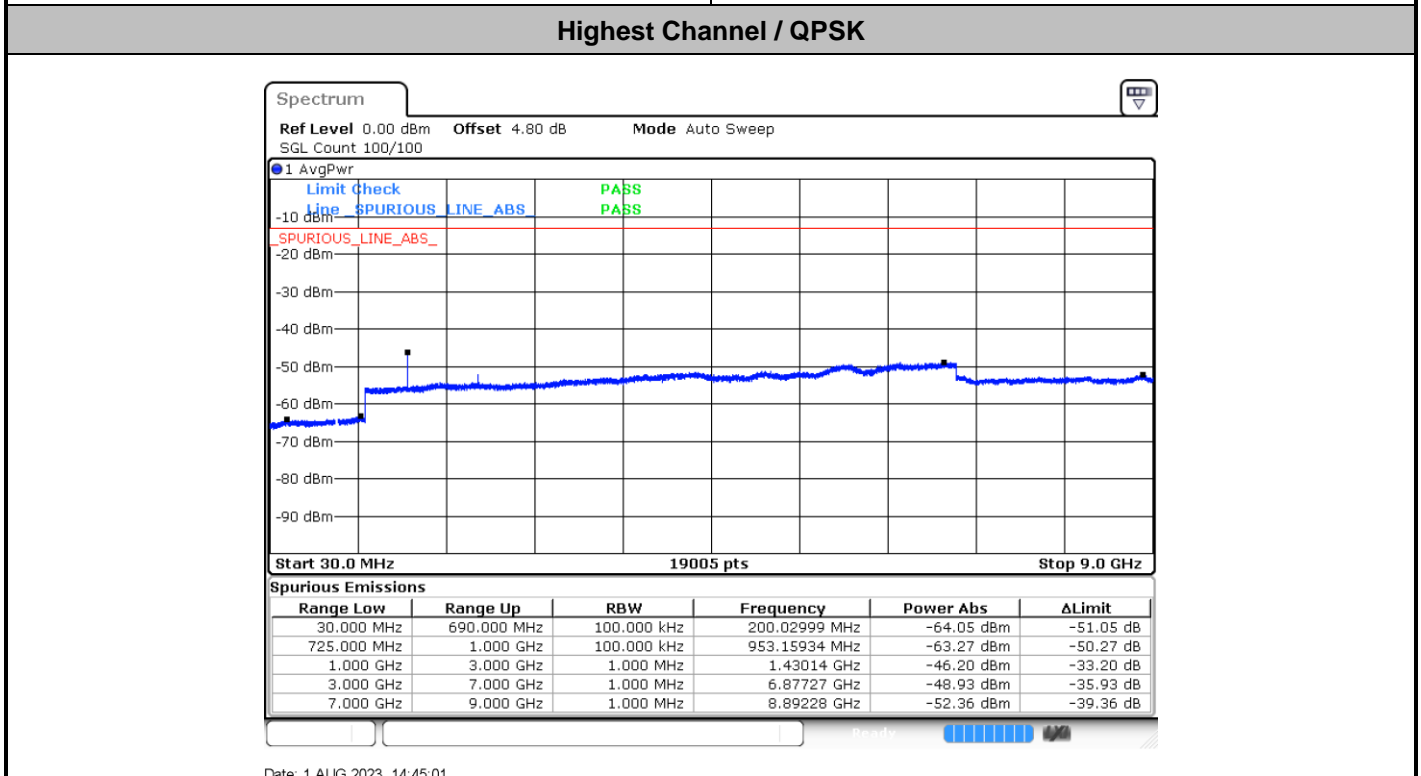
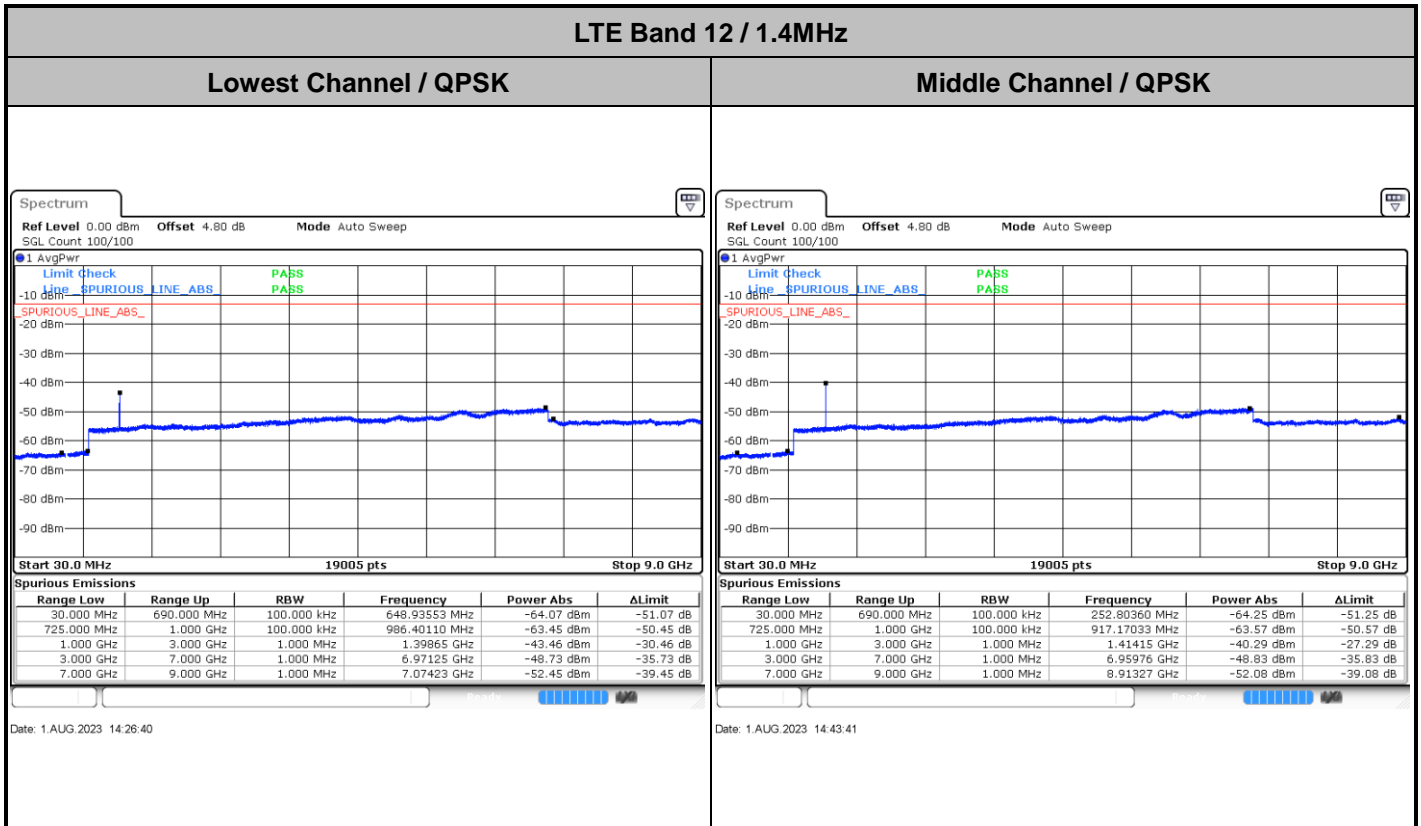
Highest Band Edge / Full RB



Date: 1 AUG 2023 16:49:02



Conducted Spurious Emission

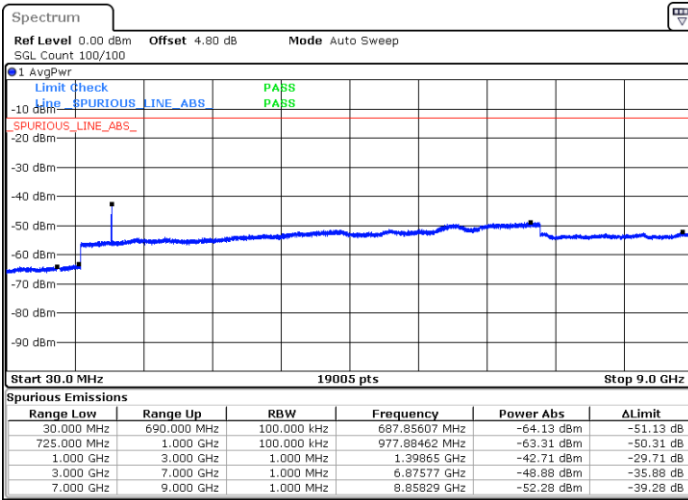




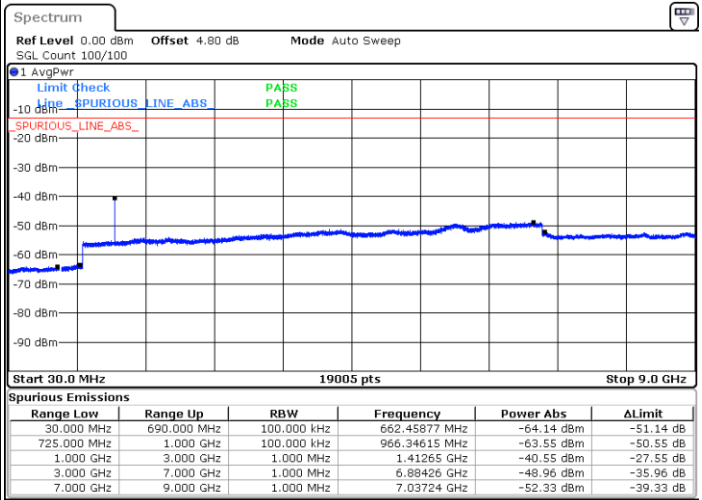
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

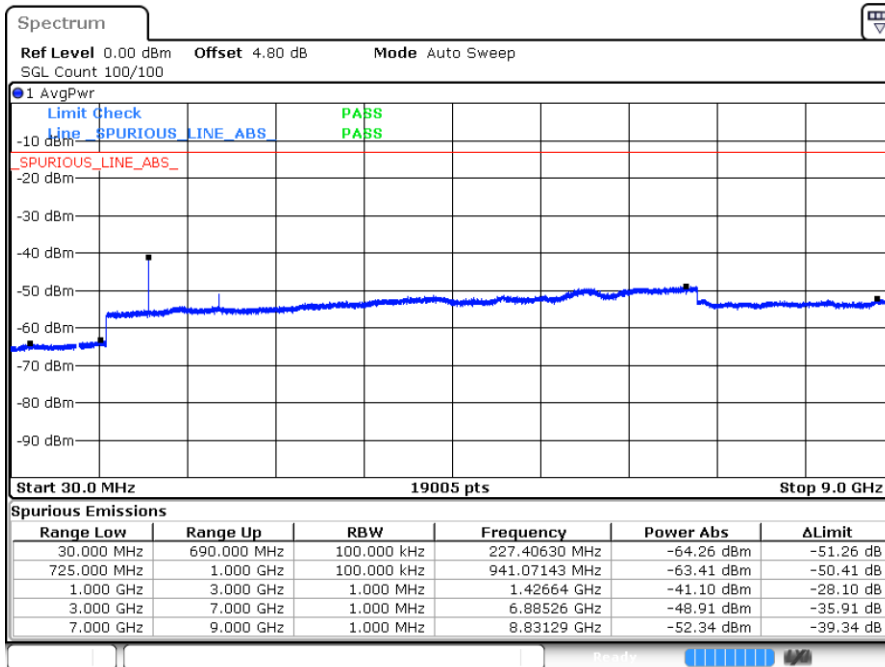


Date: 1.AUG.2023 15:31:33



Date: 1.AUG.2023 15:44:37

Highest Channel / QPSK



Date: 1.AUG.2023 15:45:56