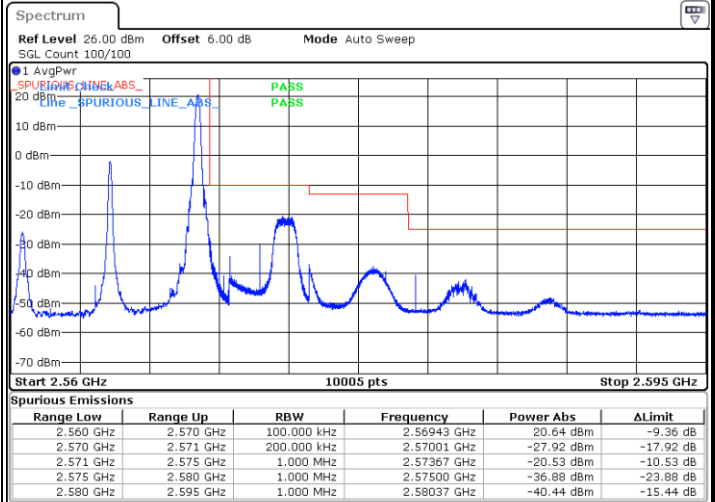
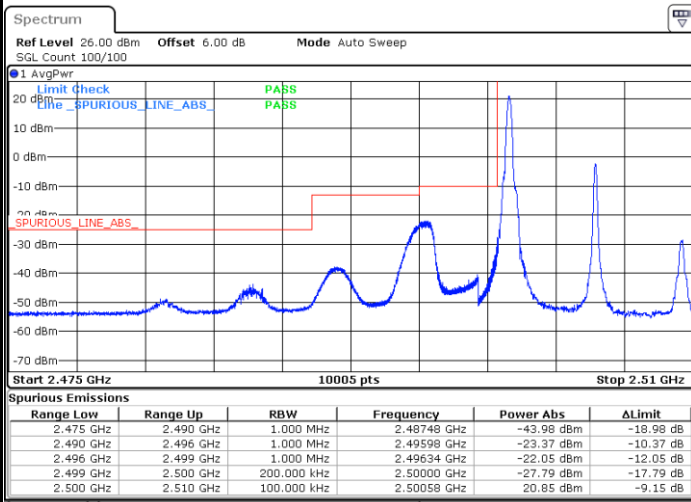




LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

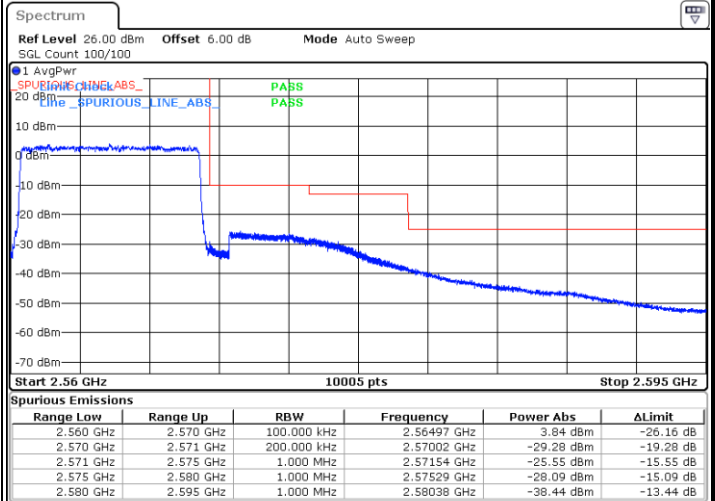
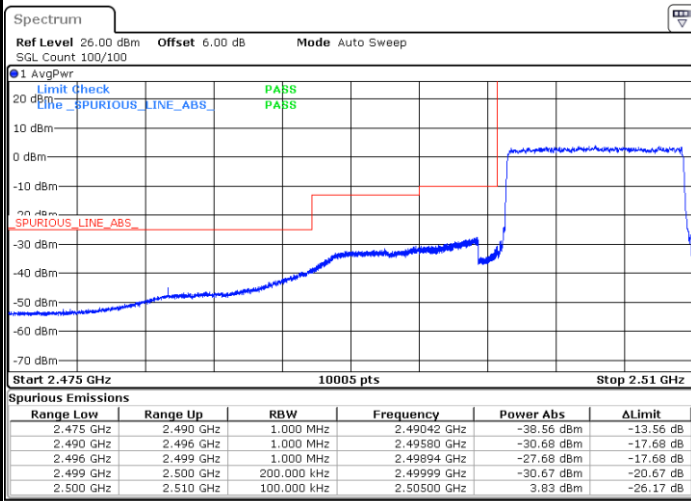


Date: 12 AUG 2020 02:21:23

Date: 12 AUG 2020 02:29:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



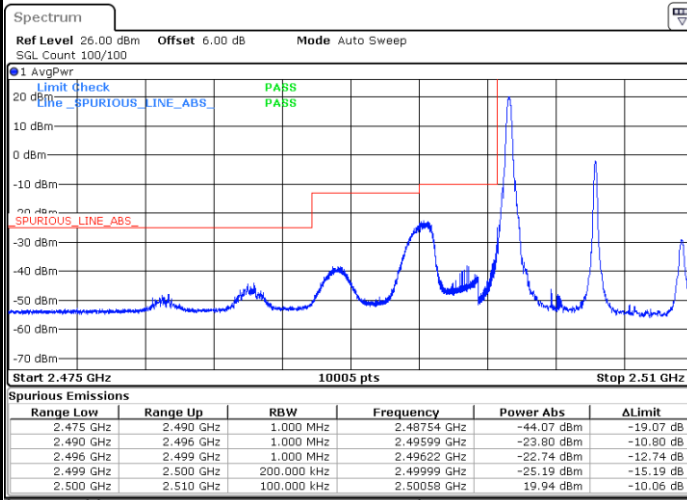
Date: 12 AUG 2020 02:24:48

Date: 12 AUG 2020 02:25:56



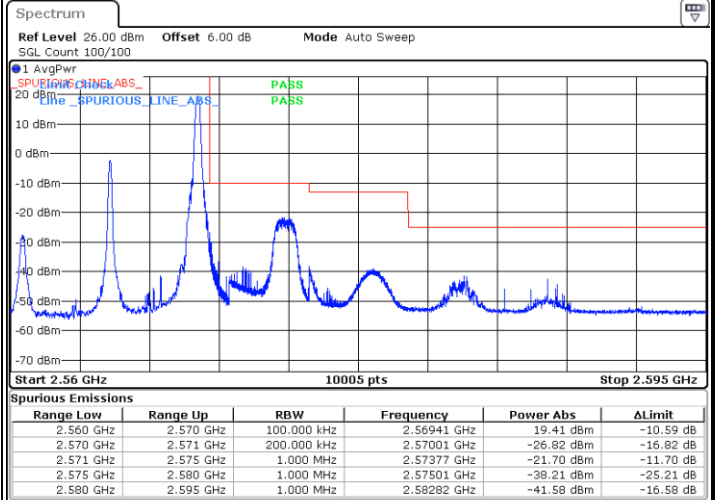
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



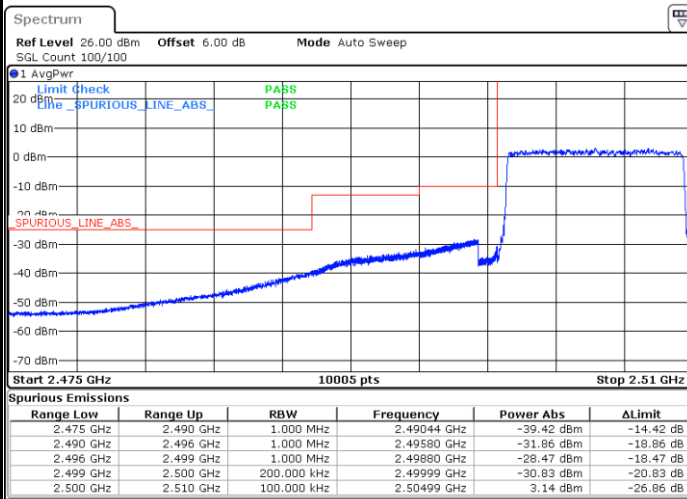
Date: 12 AUG 2020 02:22:31

Highest Band Edge / 1 RB



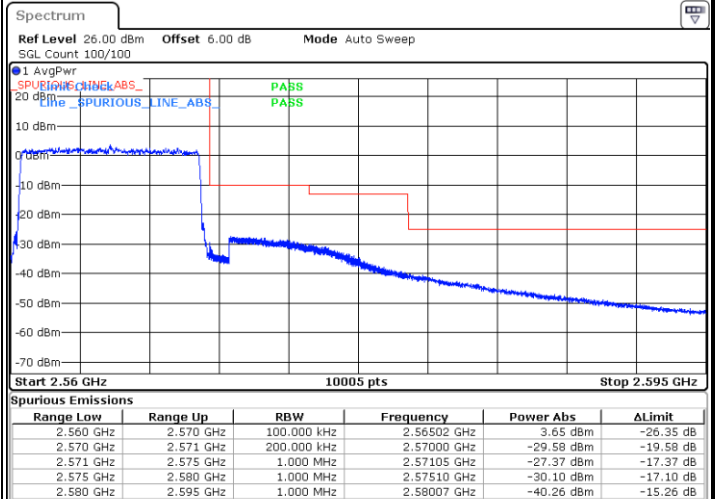
Date: 12 AUG 2020 02:28:12

Lowest Band Edge / Full RB



Date: 12 AUG 2020 02:23:39

Highest Band Edge / Full RB

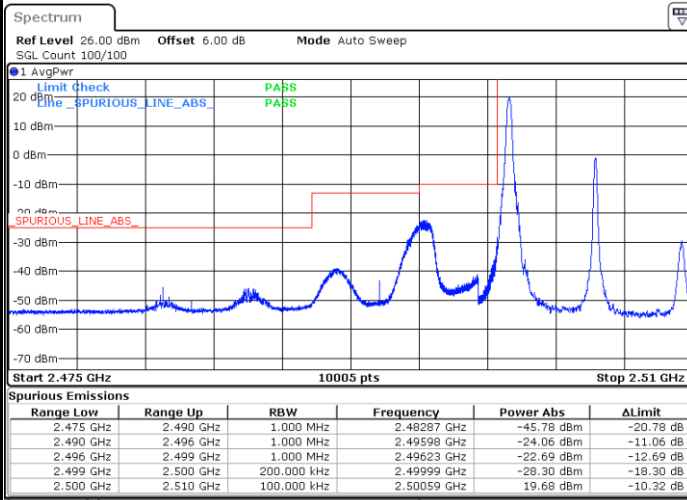


Date: 12 AUG 2020 02:27:04



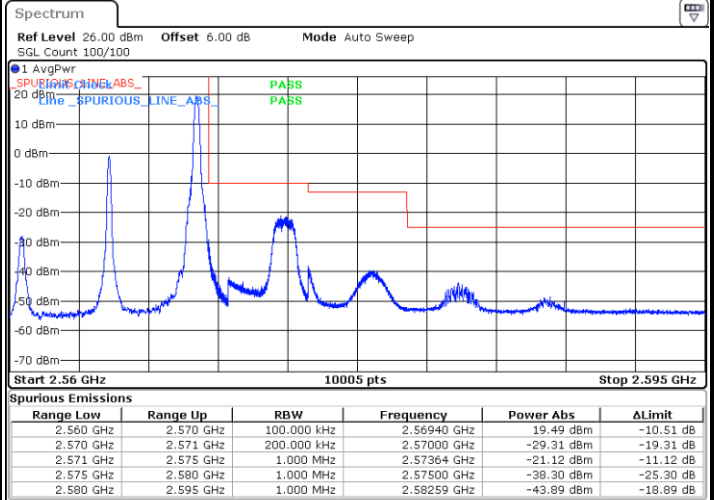
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



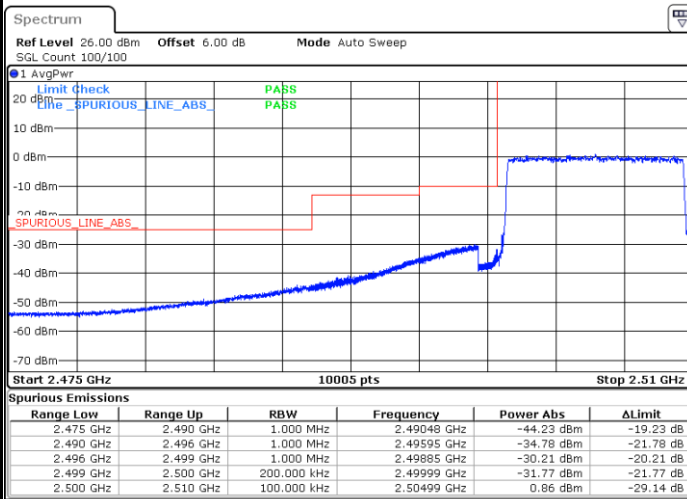
Date: 12 AUG 2020 03:29:50

Highest Band Edge / 1 RB



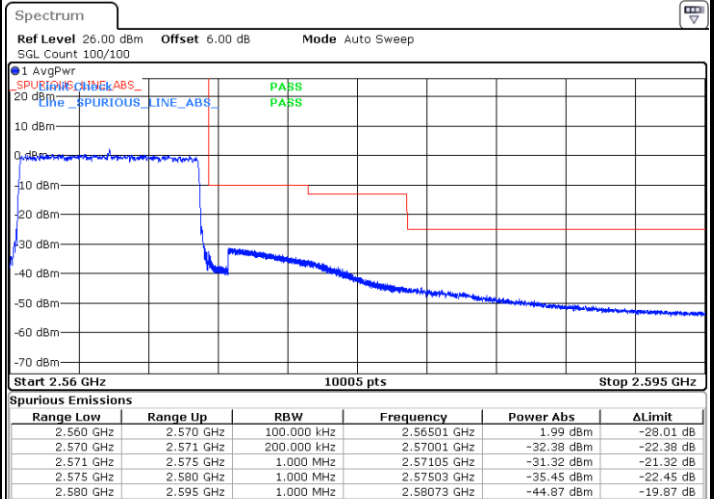
Date: 12 AUG 2020 03:32:07

Lowest Band Edge / Full RB



Date: 12 AUG 2020 03:30:58

Highest Band Edge / Full RB

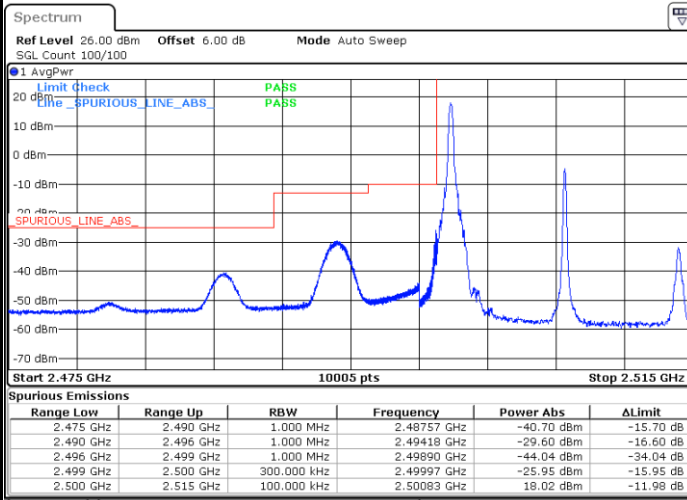


Date: 12 AUG 2020 03:33:15



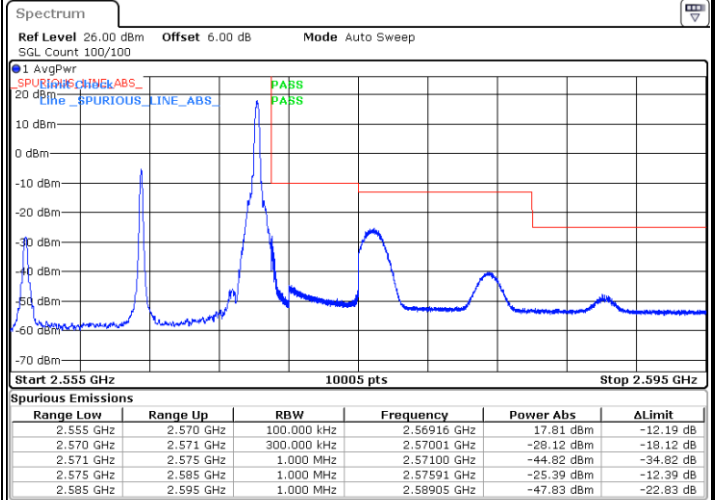
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



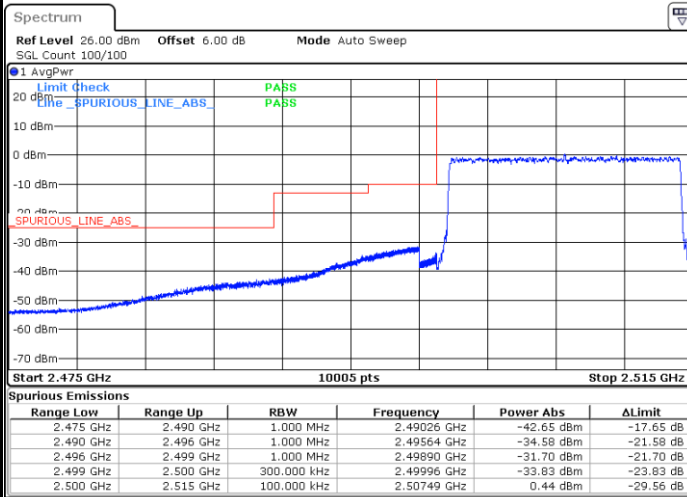
Date: 12.AUG.2020 02:37:53

Highest Band Edge / 1 RB



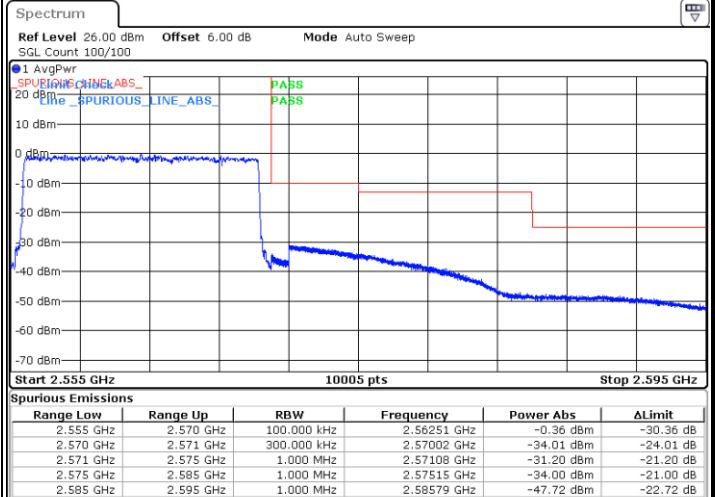
Date: 12.AUG.2020 02:45:52

Lowest Band Edge / Full RB



Date: 12.AUG.2020 02:41:19

Highest Band Edge / Full RB

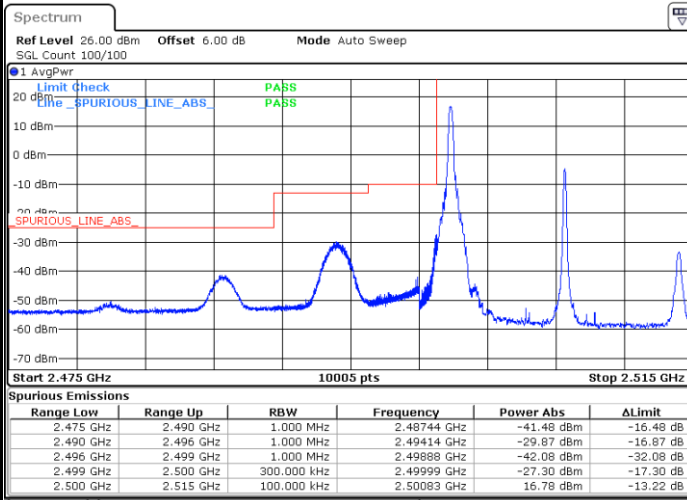


Date: 12.AUG.2020 02:42:27



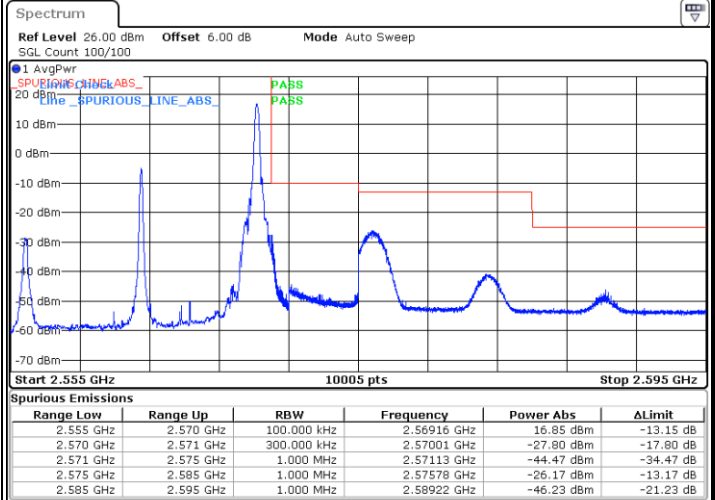
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



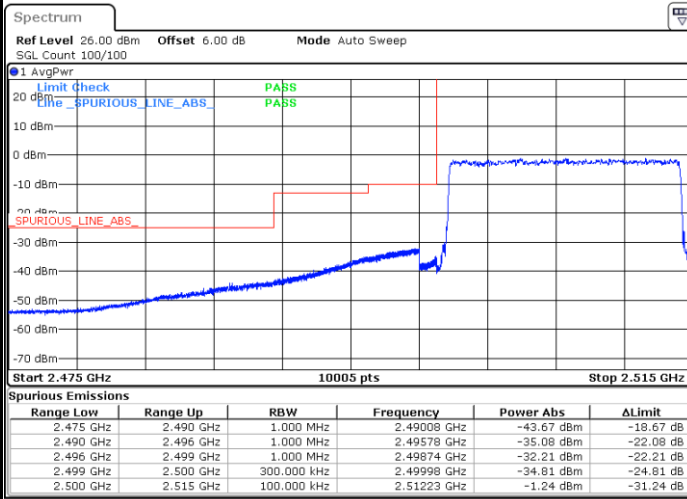
Date: 12.AUG.2020 02:39:02

Highest Band Edge / 1 RB



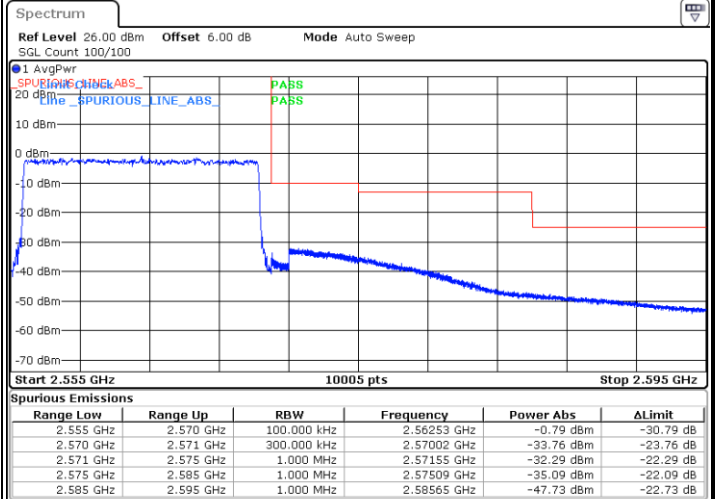
Date: 12.AUG.2020 02:44:44

Lowest Band Edge / Full RB



Date: 12.AUG.2020 02:40:11

Highest Band Edge / Full RB

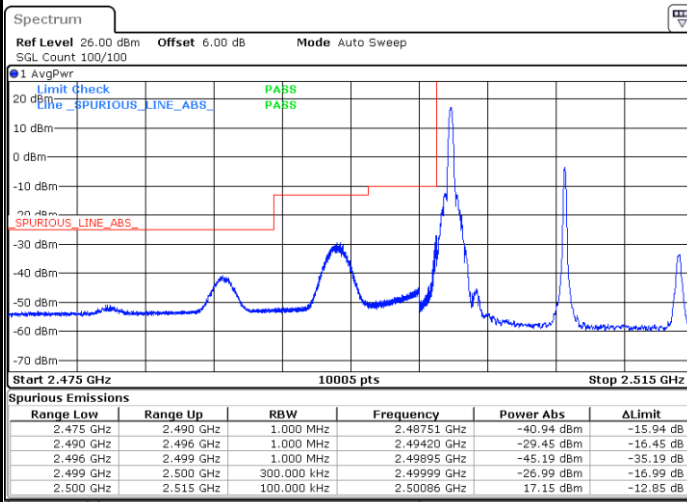


Date: 12.AUG.2020 02:43:36



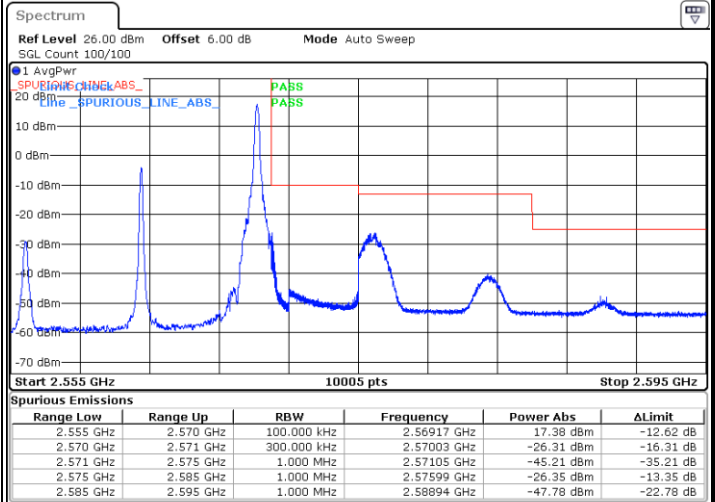
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



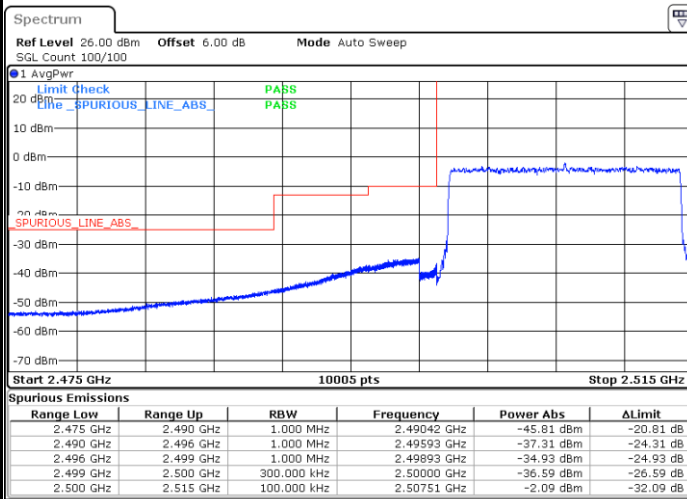
Date: 12 AUG 2020 03:36:32

Highest Band Edge / 1 RB



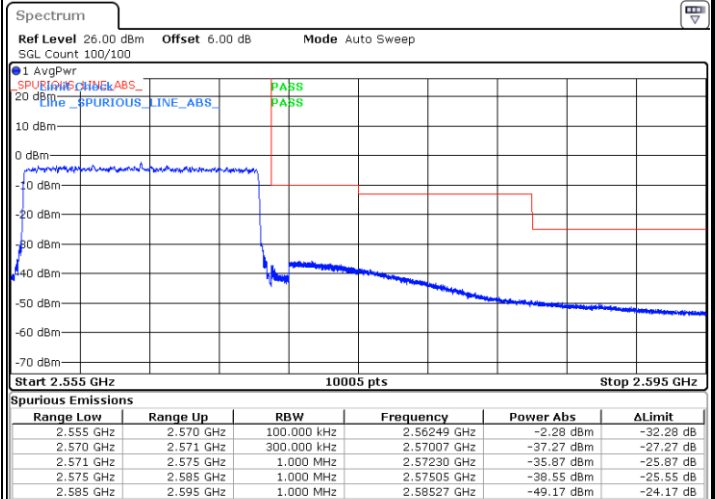
Date: 12 AUG 2020 03:38:49

Lowest Band Edge / Full RB



Date: 12 AUG 2020 03:35:24

Highest Band Edge / Full RB

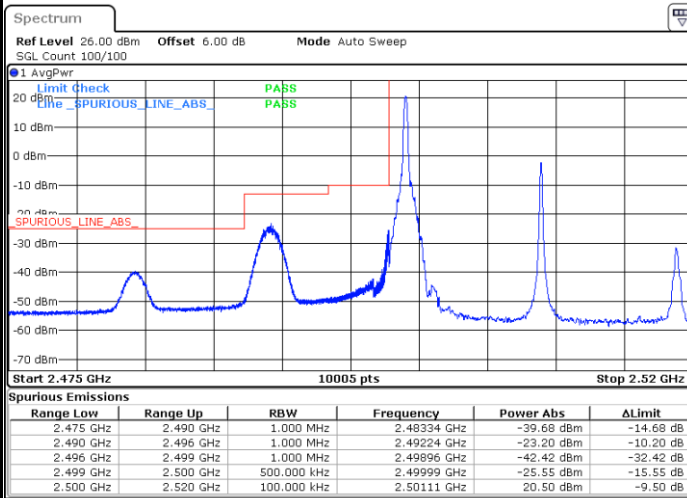


Date: 12 AUG 2020 03:37:41



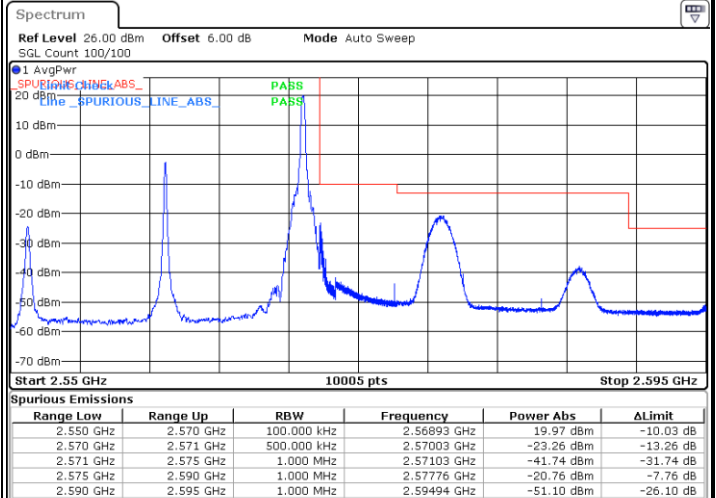
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



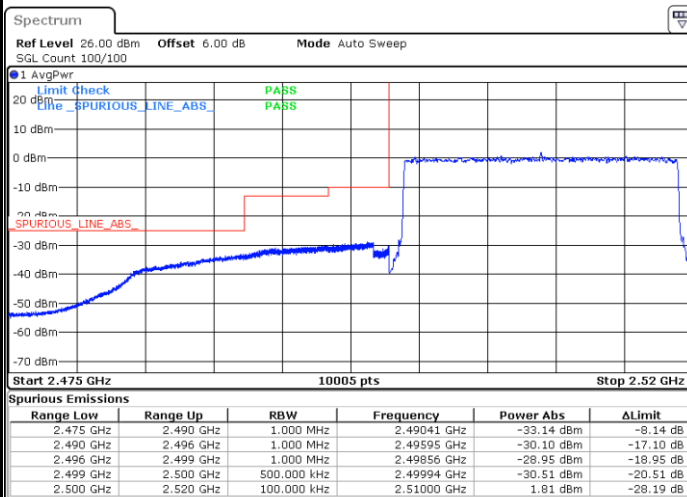
Date: 12 AUG 2020 02:54:25

Highest Band Edge / 1 RB



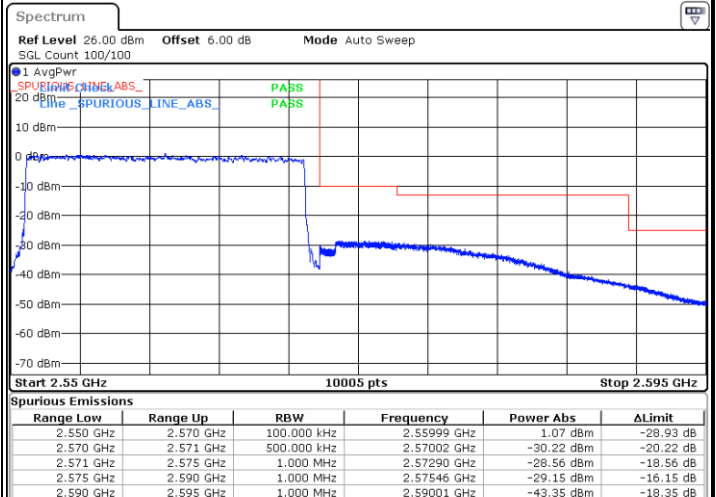
Date: 12 AUG 2020 03:02:24

Lowest Band Edge / Full RB



Date: 12 AUG 2020 02:57:51

Highest Band Edge / Full RB

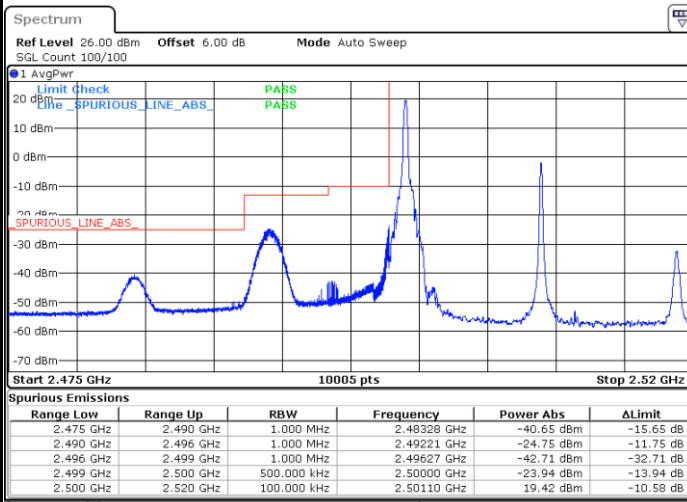


Date: 12 AUG 2020 02:58:59



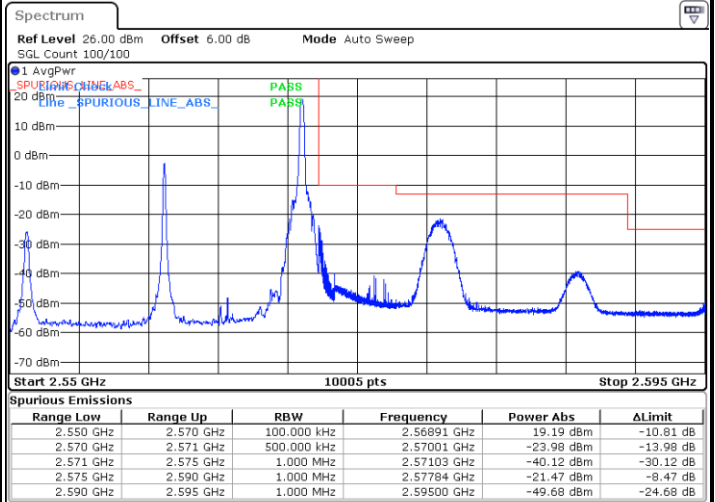
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



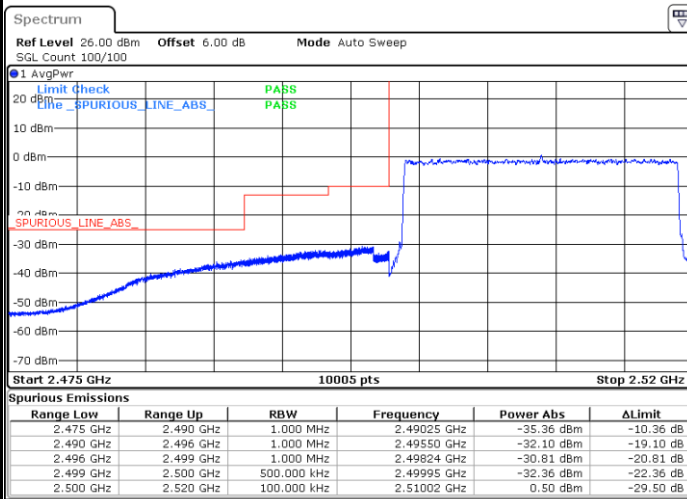
Date: 12 AUG 2020 02:55:34

Highest Band Edge / 1RB



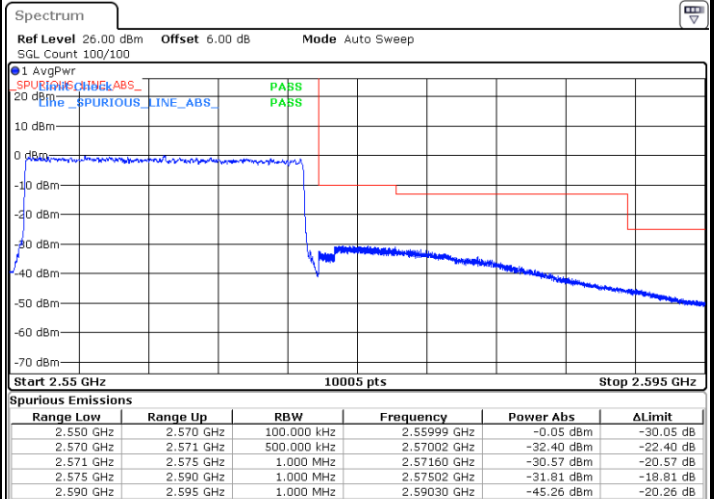
Date: 12 AUG 2020 03:01:16

Lowest Band Edge / Full RB



Date: 12 AUG 2020 02:56:42

Highest Band Edge / Full RB

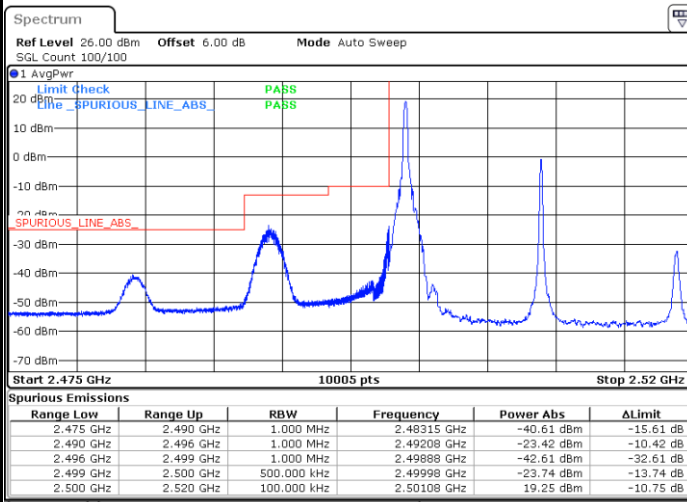


Date: 12 AUG 2020 03:00:08



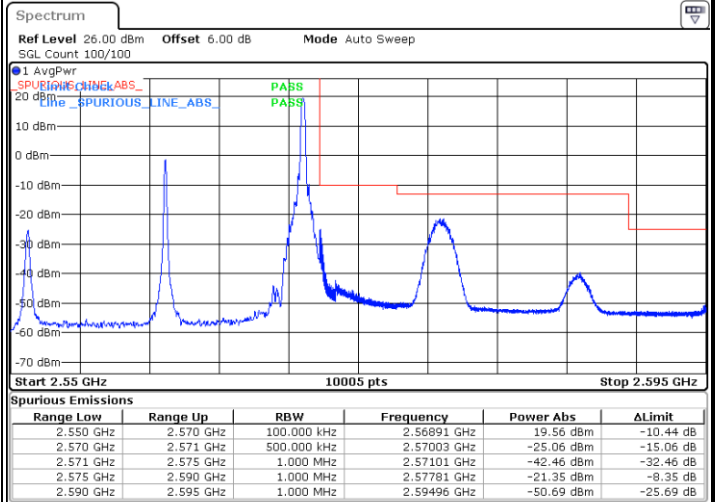
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



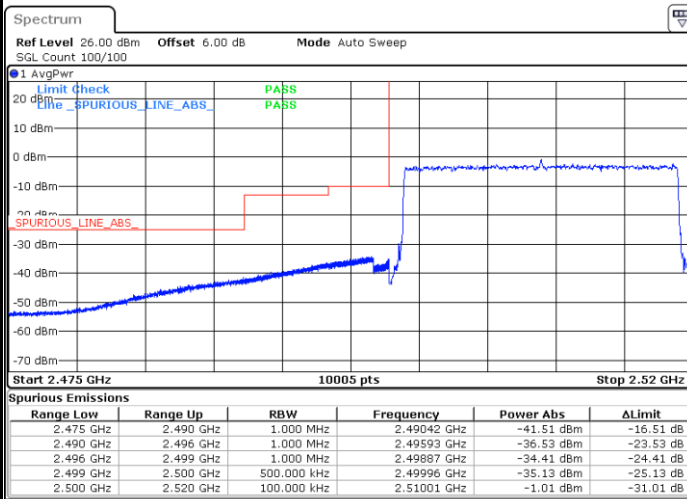
Date: 12.AUG.2020 03:44:48

Highest Band Edge / 1 RB



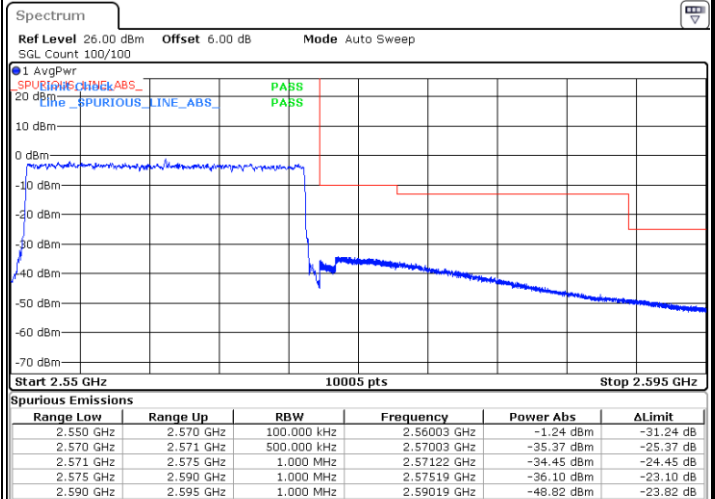
Date: 12.AUG.2020 03:47:05

Lowest Band Edge / Full RB



Date: 12.AUG.2020 03:43:40

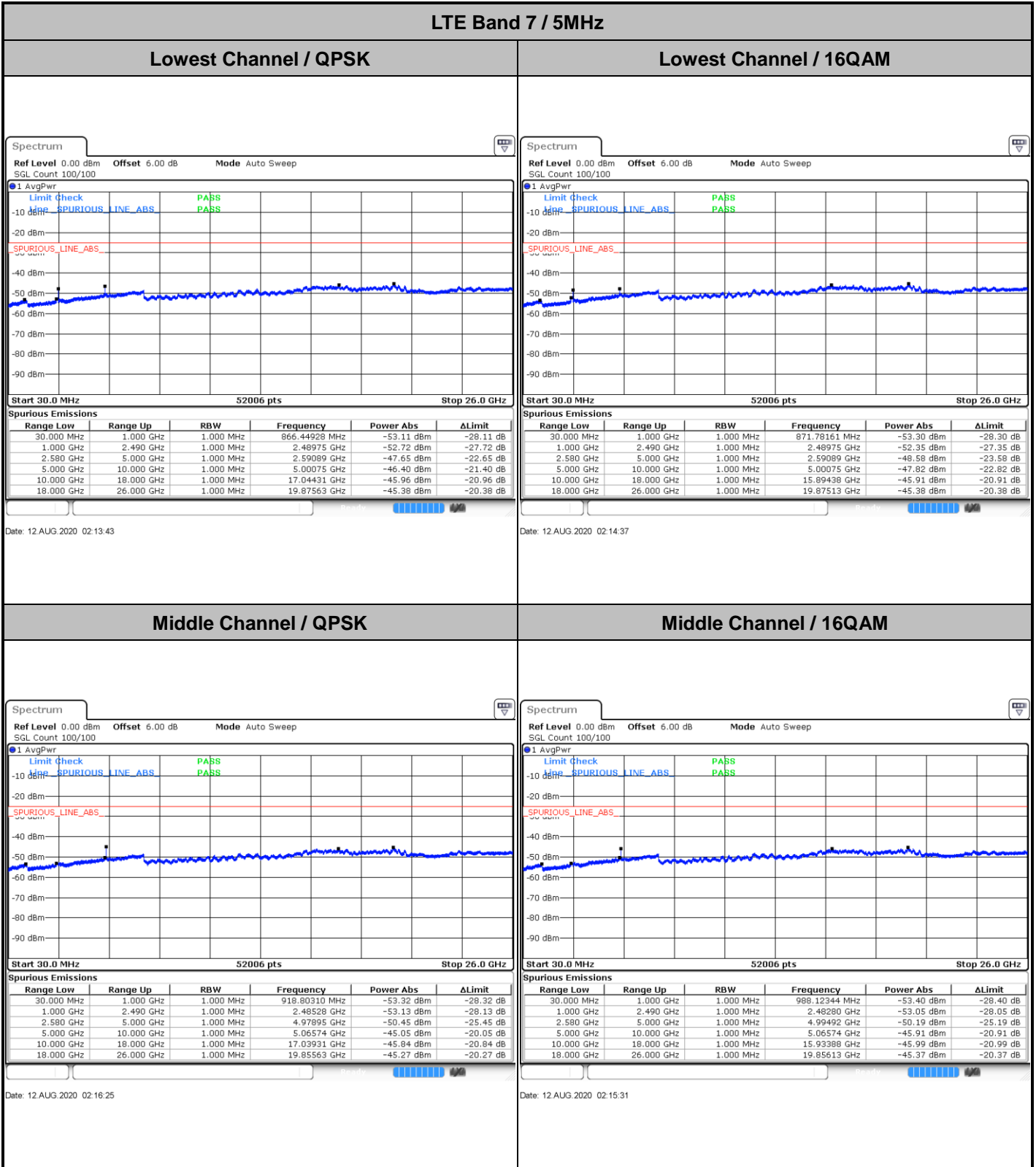
Highest Band Edge / Full RB



Date: 12.AUG.2020 03:45:56



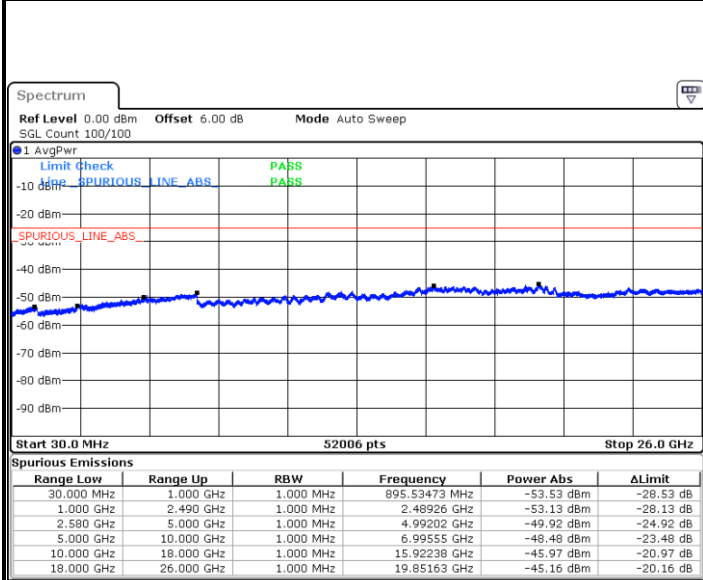
Conducted Spurious Emission





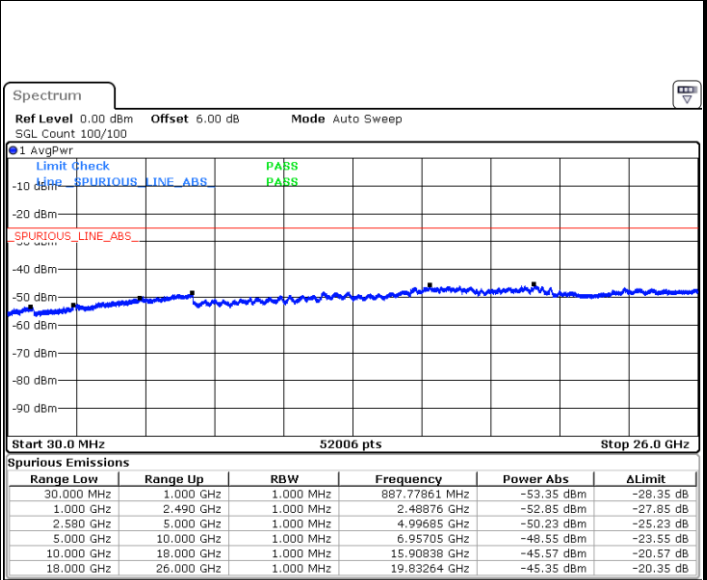
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 12 AUG 2020 02:17:19

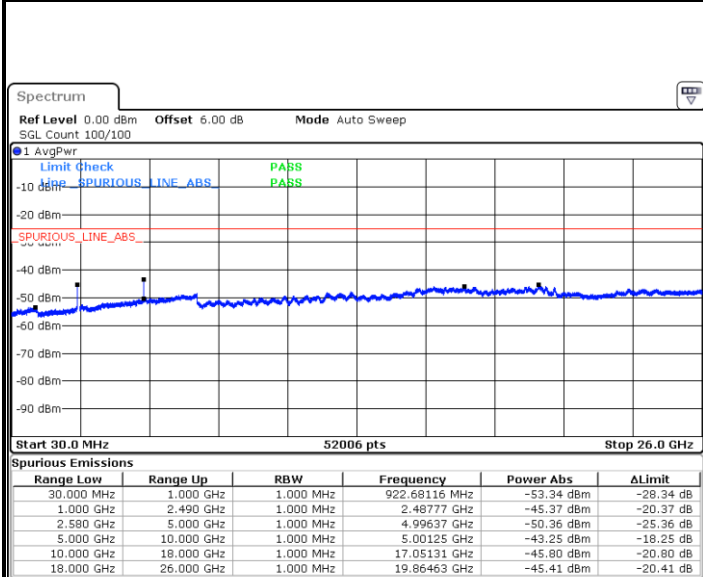
Highest Channel / 16QAM



Date: 12 AUG 2020 02:18:13

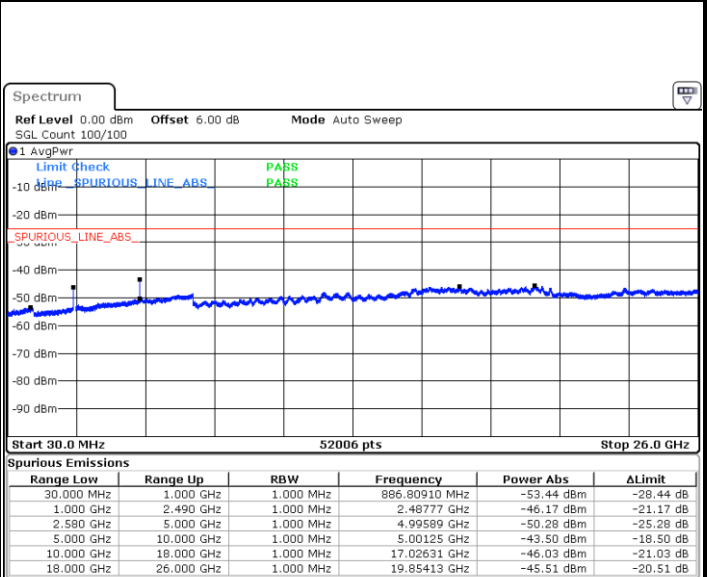
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 12 AUG 2020 02:30:14

Lowest Channel / 16QAM



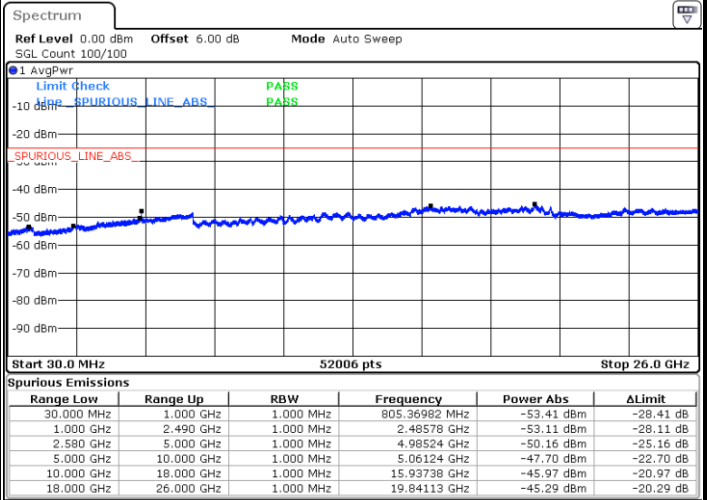
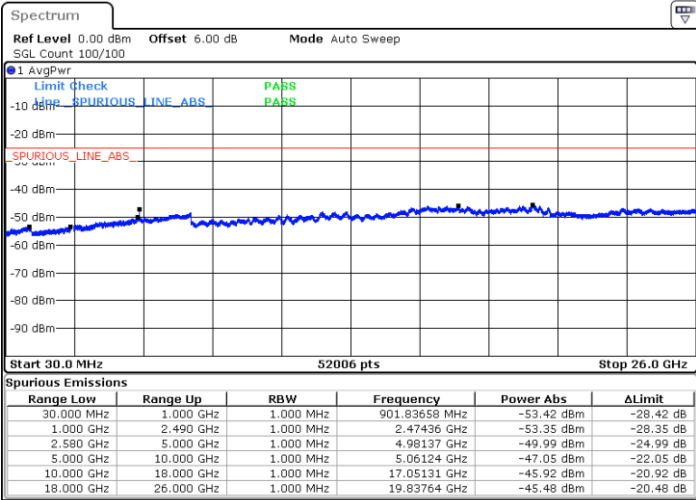
Date: 12 AUG 2020 02:31:07



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

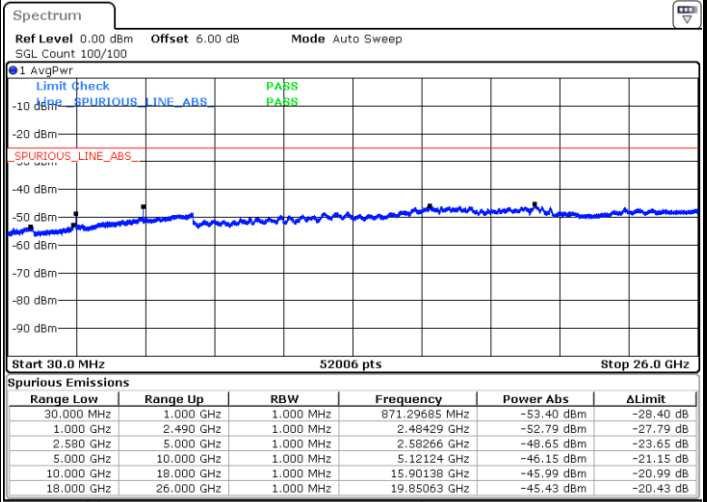
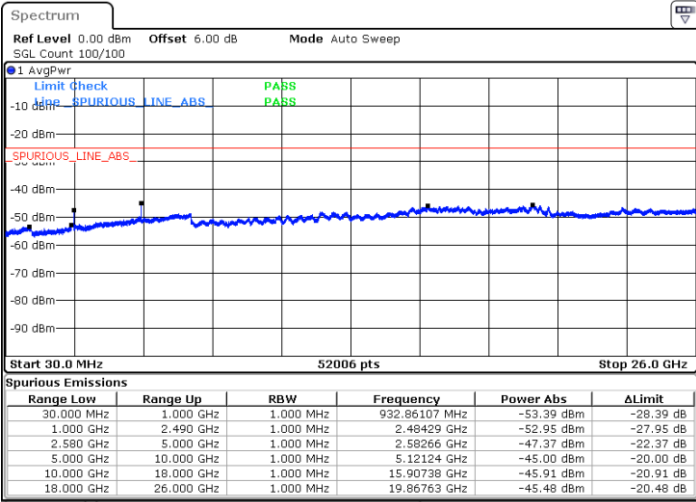


Date: 12 AUG 2020 02:32:56

Date: 12 AUG 2020 02:32:02

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 AUG 2020 02:33:49

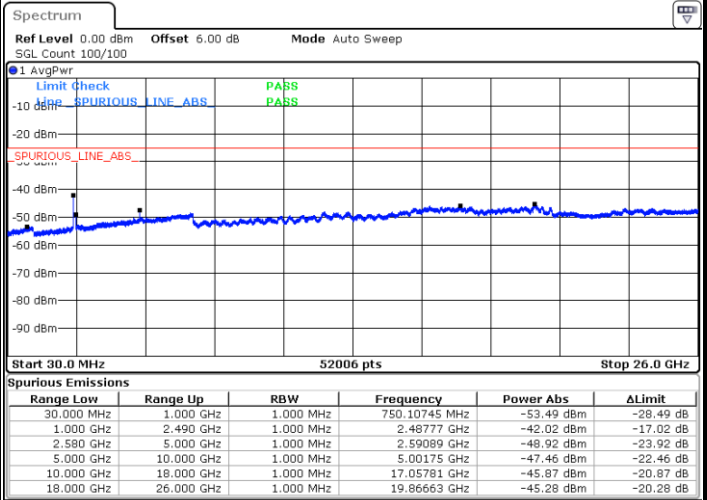
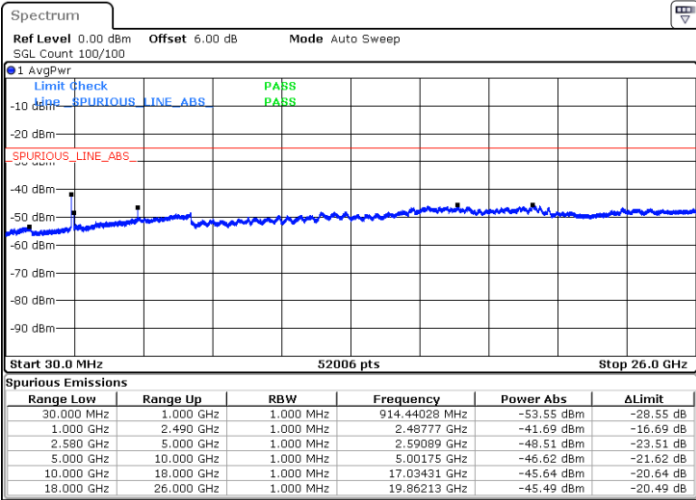
Date: 12 AUG 2020 02:34:43



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

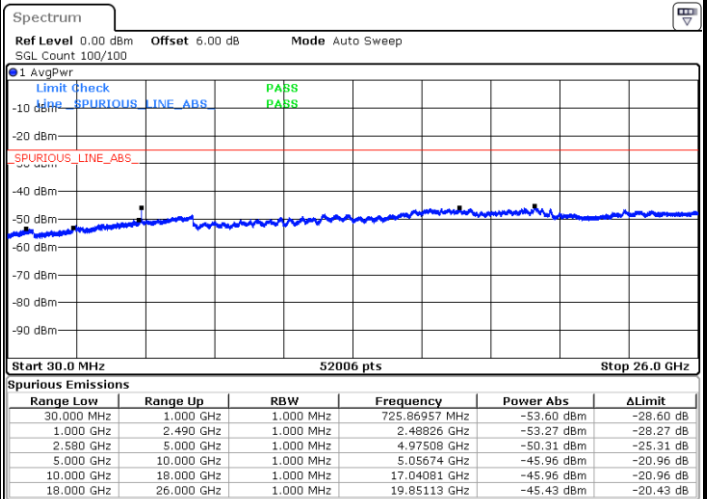
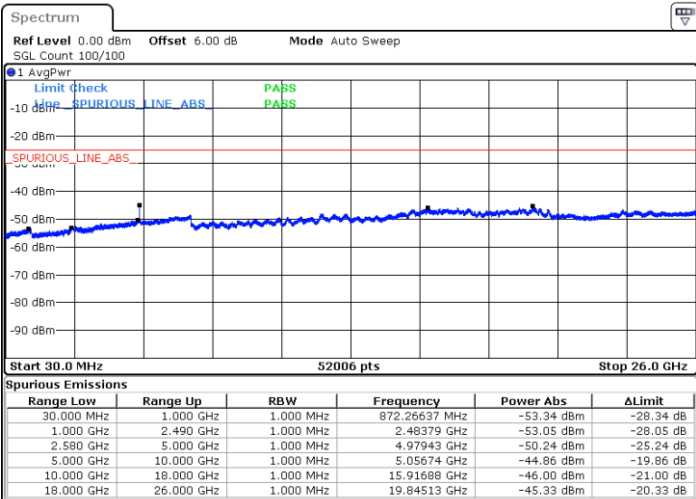


Date: 12 AUG.2020 02:46:45

Date: 12 AUG.2020 02:47:39

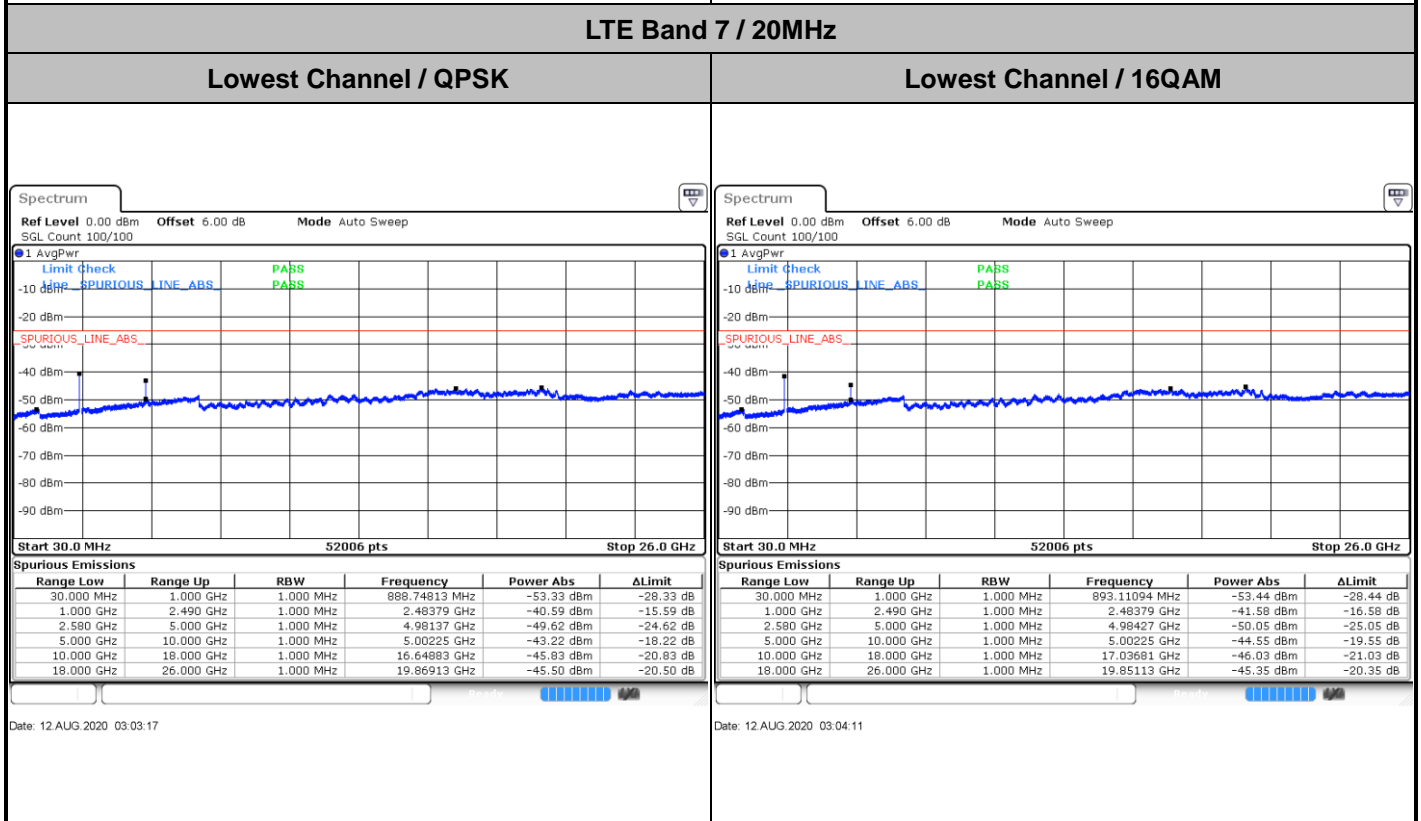
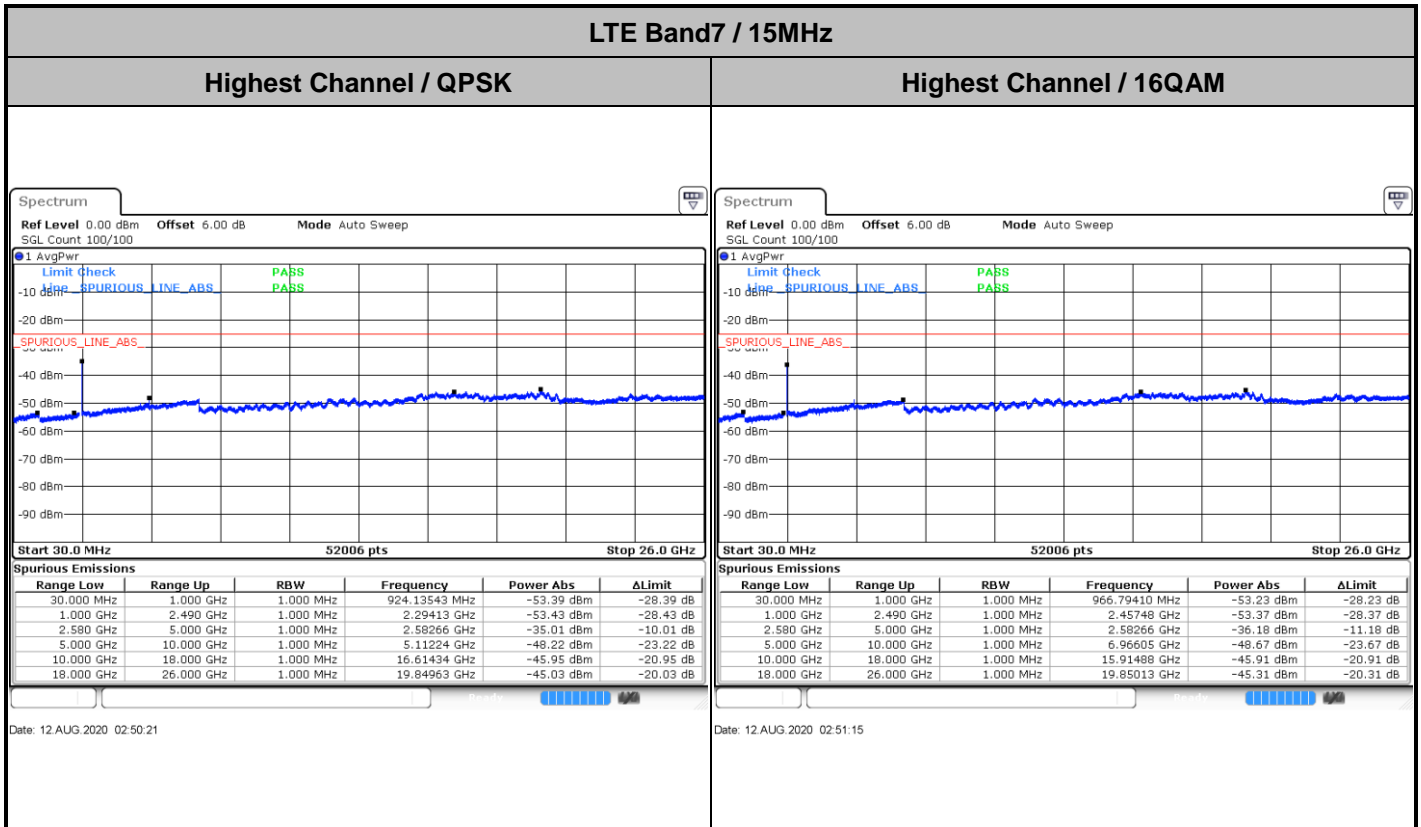
Middle Channel / QPSK

Middle Channel / 16QAM



Date: 12 AUG.2020 02:49:27

Date: 12 AUG.2020 02:48:33

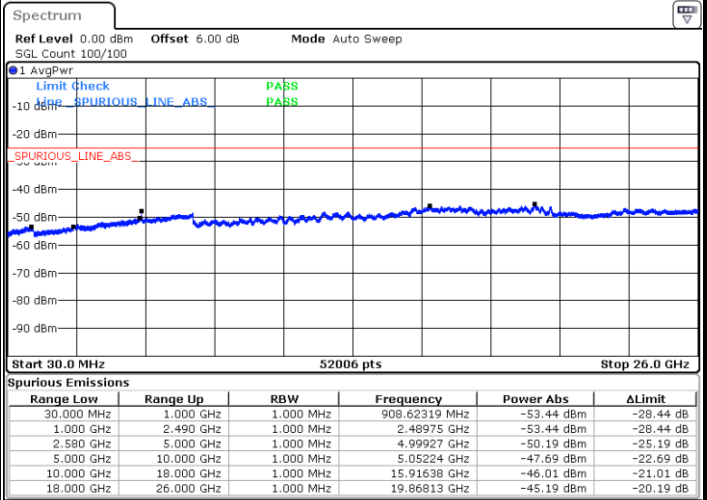
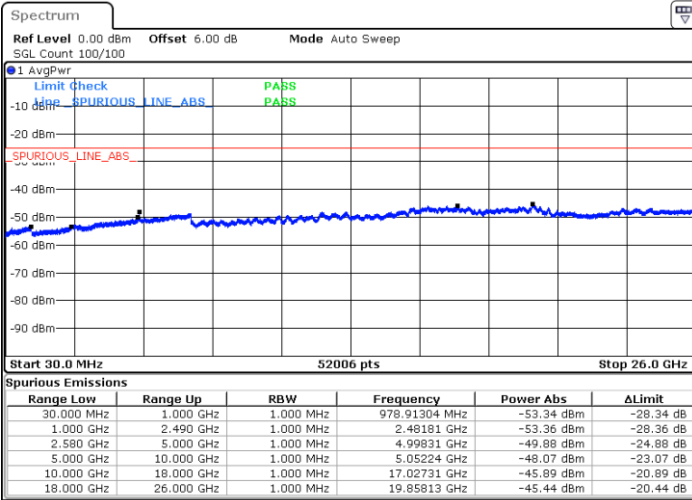




LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

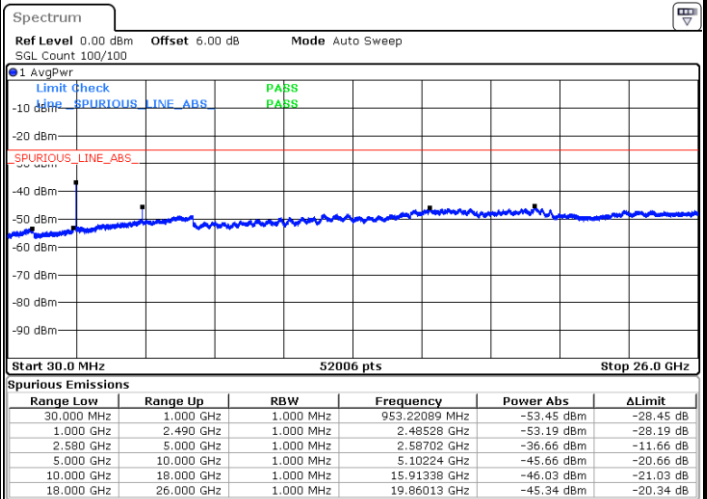
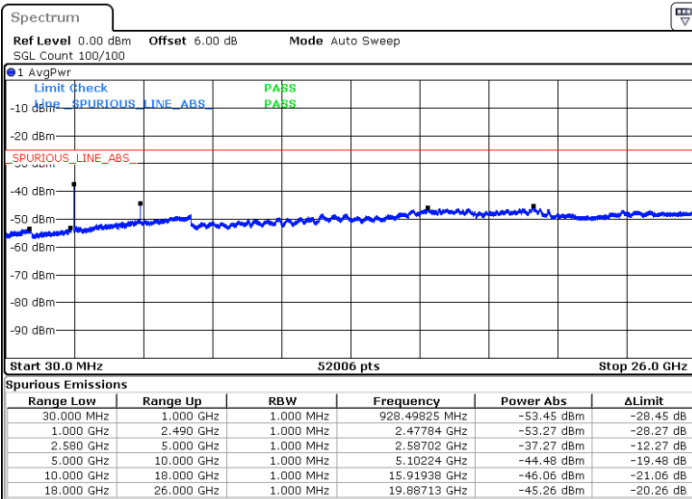


Date: 12 AUG 2020 03:05:59

Date: 12 AUG 2020 03:05:05

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 AUG 2020 03:06:53

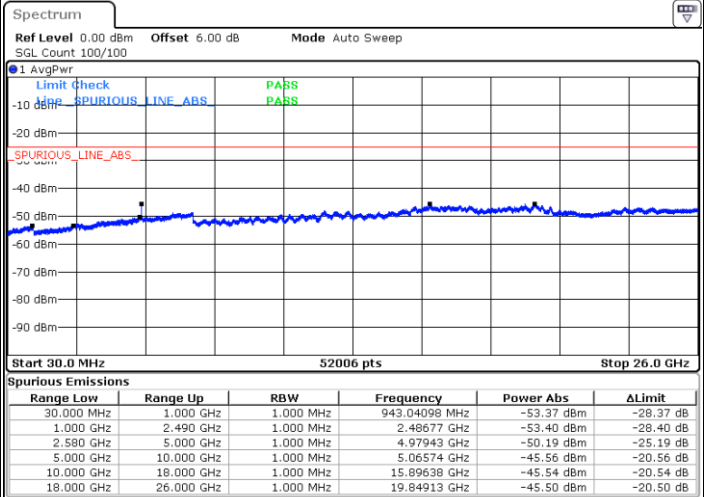
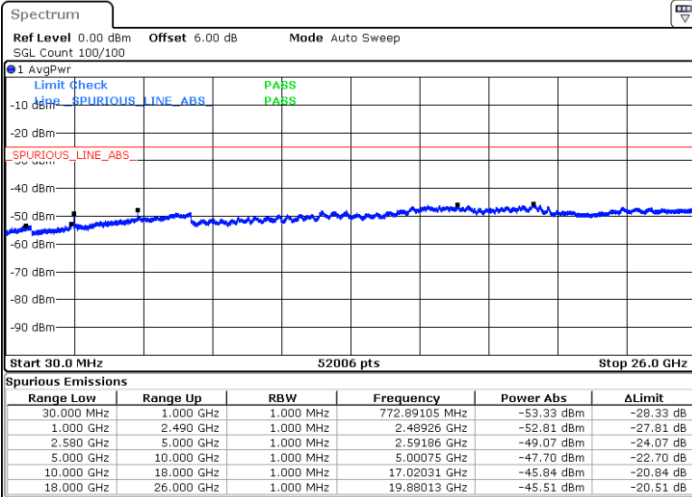
Date: 12 AUG 2020 03:07:47



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

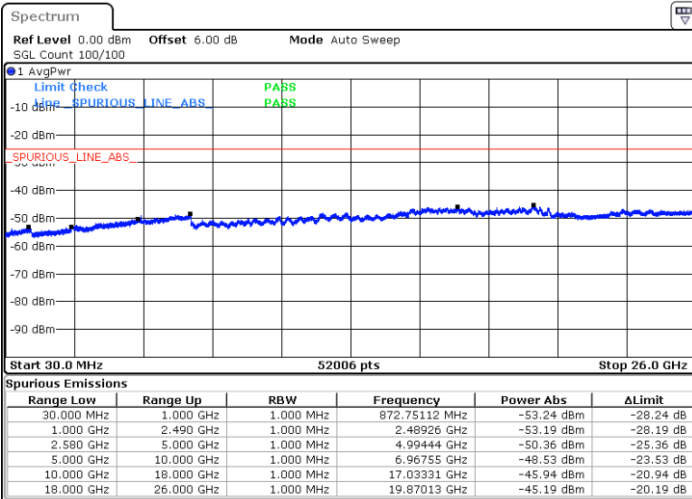
Middle Channel / 64QAM



Date: 12 AUG 2020 03:18:37

Date: 12 AUG 2020 03:19:31

Highest Channel / 64QAM



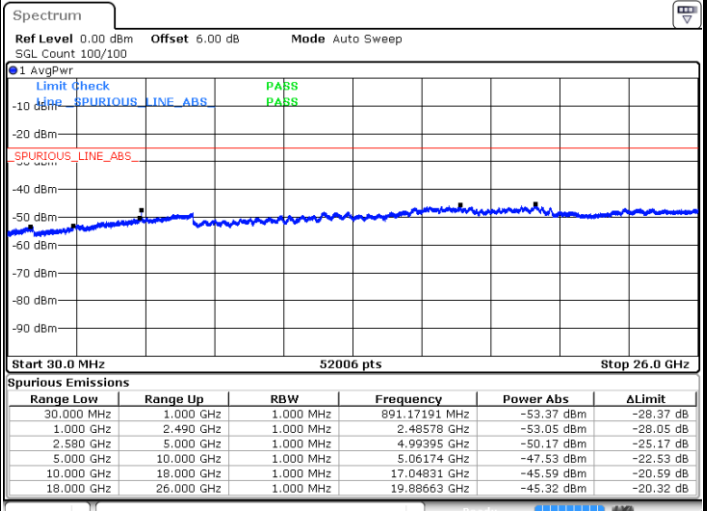
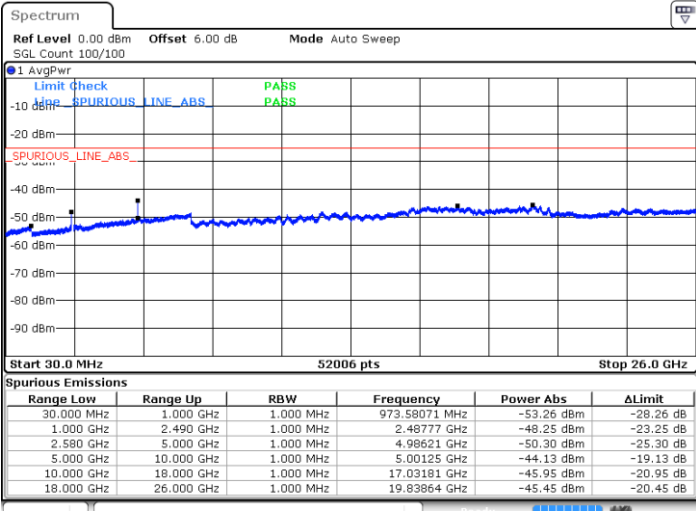
Date: 12 AUG 2020 03:20:25



LTE Band 7 / 10MHz

Lowest Channel / 64QAM

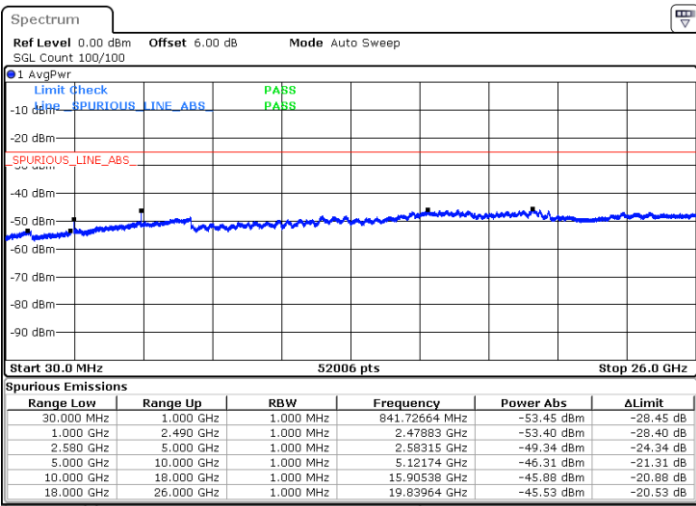
Middle Channel / 64QAM



Date: 12.AUG.2020 03:26:53

Date: 12.AUG.2020 03:27:47

Highest Channel / 64QAM



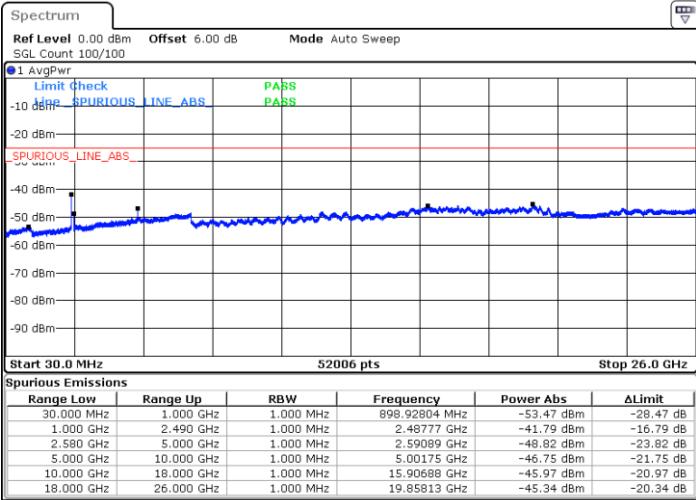
Date: 12.AUG.2020 03:28:41



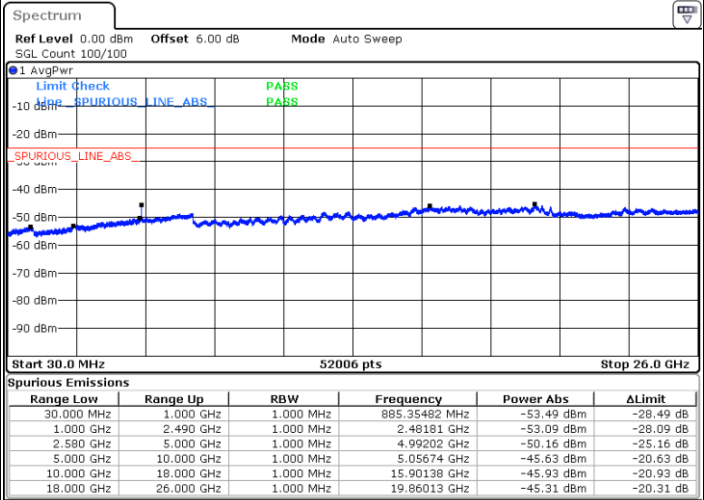
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

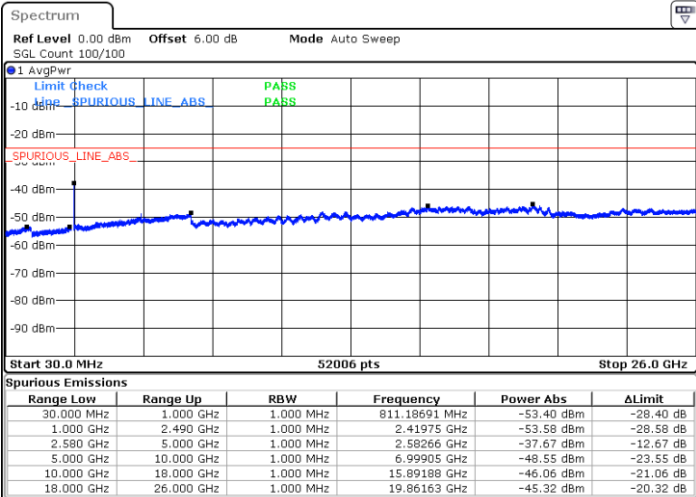


Date: 12 AUG.2020 03:39:42



Date: 12.AUG.2020 03:40:36

Highest Channel / 64QAM



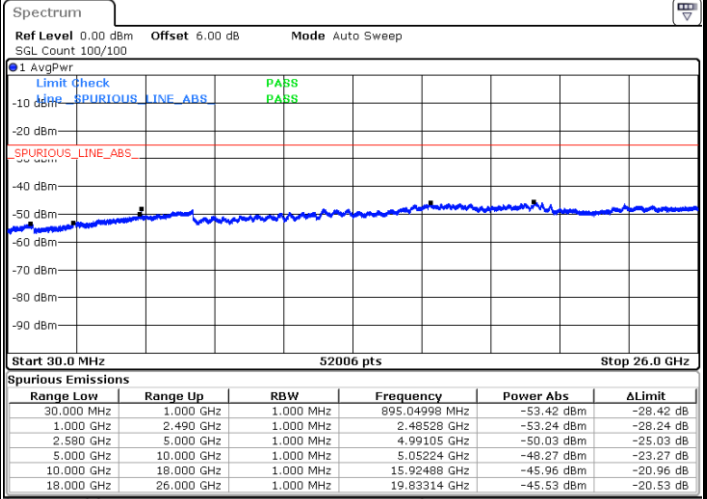
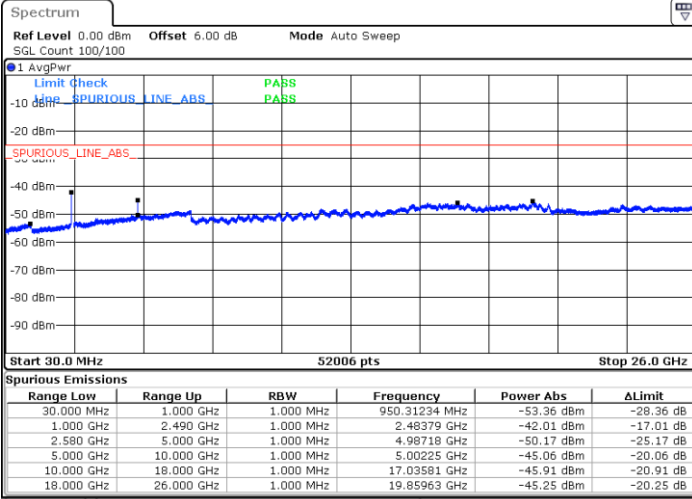
Date: 12 AUG.2020 03:41:29



LTE Band 7 / 20MHz

Lowest Channel / 64QAM

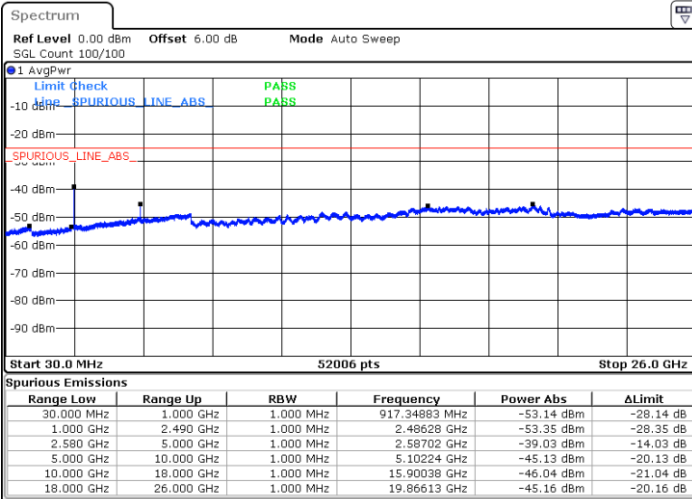
Middle Channel / 64QAM



Date: 12 AUG.2020 03:47:57

Date: 12.AUG.2020 03:48:52

Highest Channel / 64QAM



Date: 12 AUG.2020 03:49:46



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 | 0.0020 | PASS |
| 40 | Normal Voltage | 0.0013 | |
| 30 | Normal Voltage | 0.0003 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0022 | |
| 0 | Normal Voltage | 0.0007 | |
| -10 | Normal Voltage | 0.0003 | |
| -20 | Normal Voltage | 0.0008 | |
| -30 | Normal Voltage | 0.0013 | |
| 20 | Maximum Voltage | 0.0001 | |
| 20 | Normal Voltage | 0.0020 | |
| 20 | Battery End Point | 0.0014 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

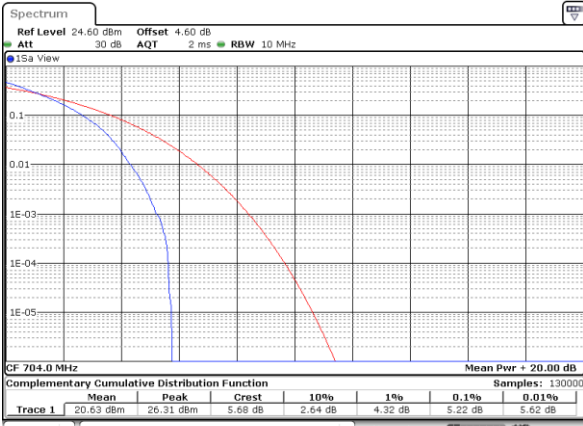
Peak-to-Average Ratio

| Mode | LTE Band 12 / 10MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 5.22 | 5.28 | 6.29 | 6.09 | PASS |
| Middle CH | 4.90 | 5.25 | 5.77 | 6.14 | |
| Highest CH | 4.90 | 5.19 | 5.88 | 6.14 | |
| Mode | LTE Band 12 / 10MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 6.06 | 6.61 | - | - | PASS |
| Middle CH | 5.62 | 6.75 | - | - | |
| Highest CH | 5.54 | 6.72 | - | - | |



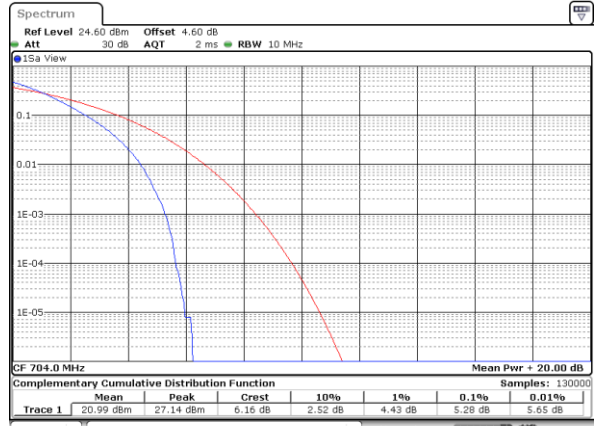
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



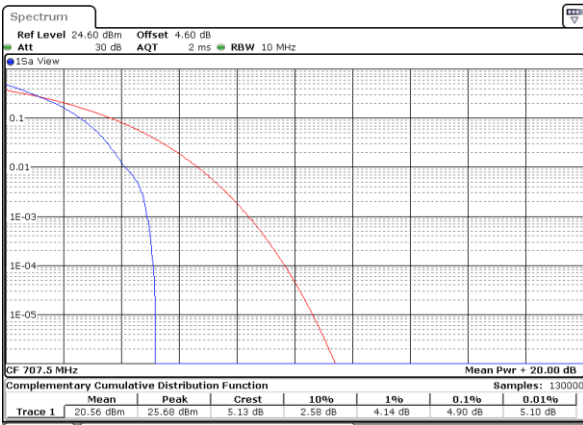
Date: 12 AUG 2020 04:56:30

Lowest Channel / Full RB



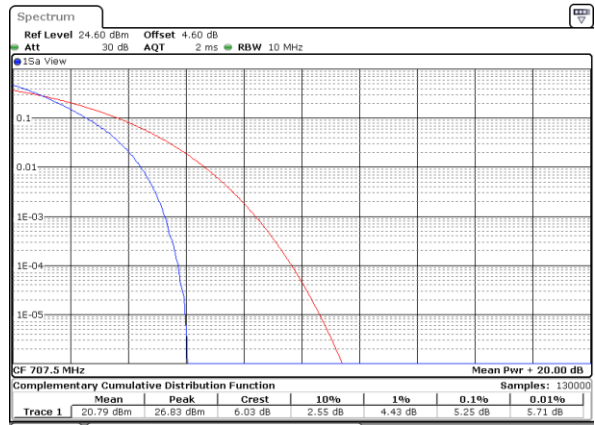
Date: 12 AUG 2020 04:56:40

Middle Channel / 1RB



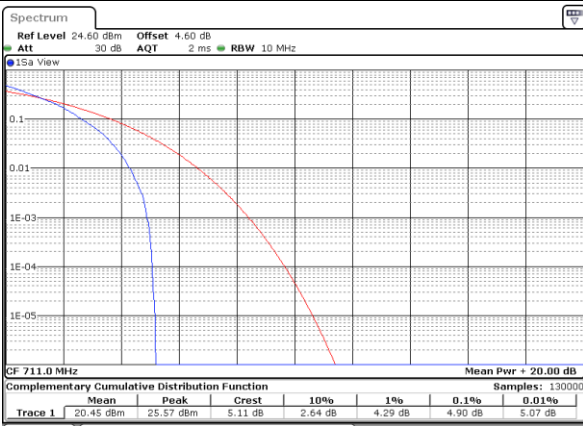
Date: 12 AUG 2020 04:57:16

Middle Channel / Full RB



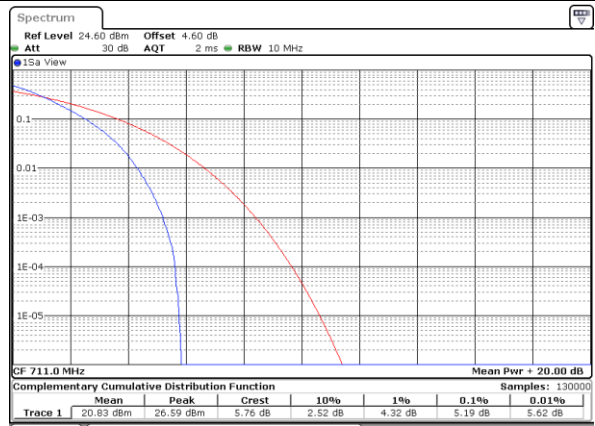
Date: 12 AUG 2020 04:57:07

Highest Channel / 1RB



Date: 12 AUG 2020 04:57:42

Highest Channel / Full RB

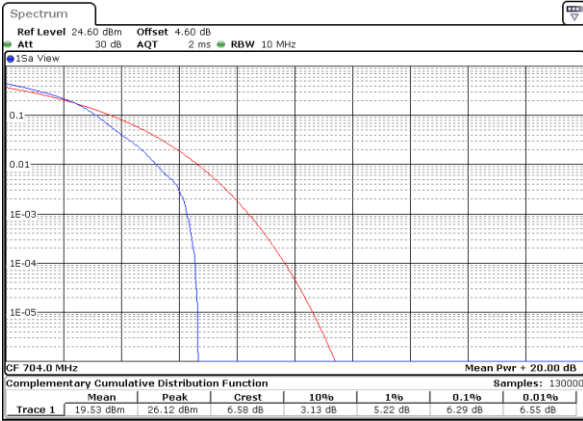


Date: 12 AUG 2020 04:57:51



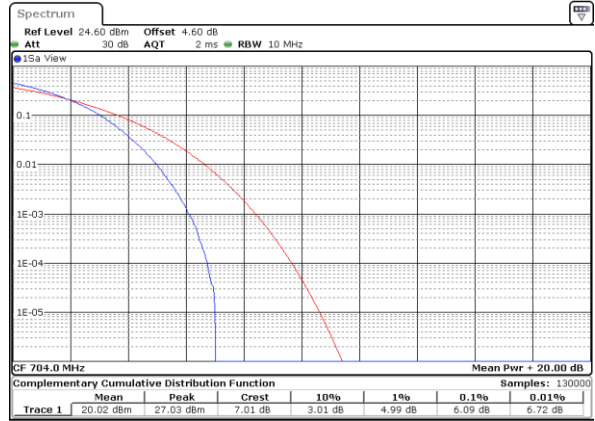
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 12 AUG 2020 04:56:21

Lowest Channel / Full RB



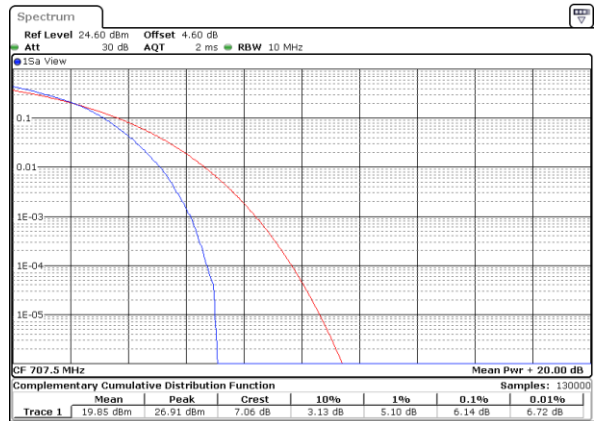
Date: 12 AUG 2020 04:56:49

Middle Channel / 1RB



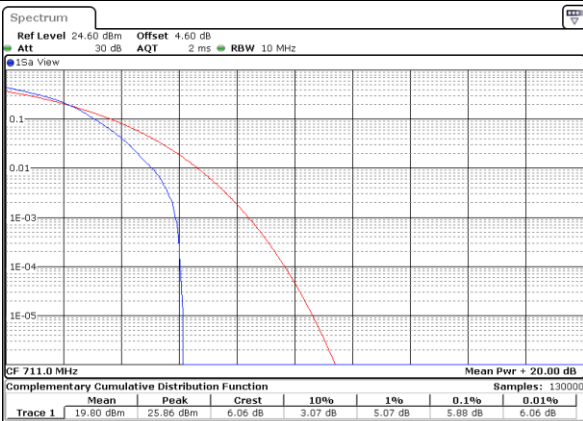
Date: 12 AUG 2020 04:57:25

Middle Channel / Full RB



Date: 12 AUG 2020 04:56:58

Highest Channel / 1RB



Date: 12 AUG 2020 04:57:34

Highest Channel / Full RB

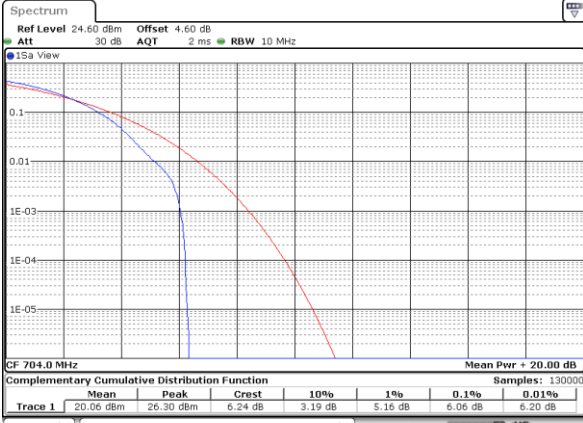


Date: 12 AUG 2020 04:58:00



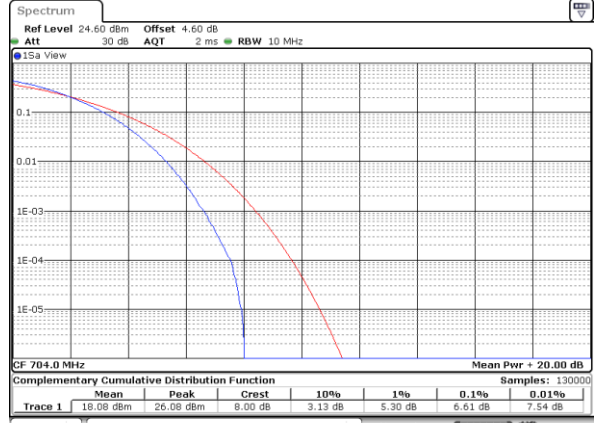
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



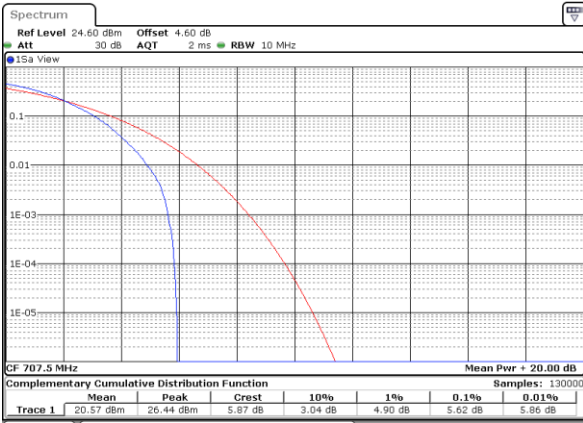
Date: 12 AUG 2020 04:55:26

Lowest Channel / Full RB



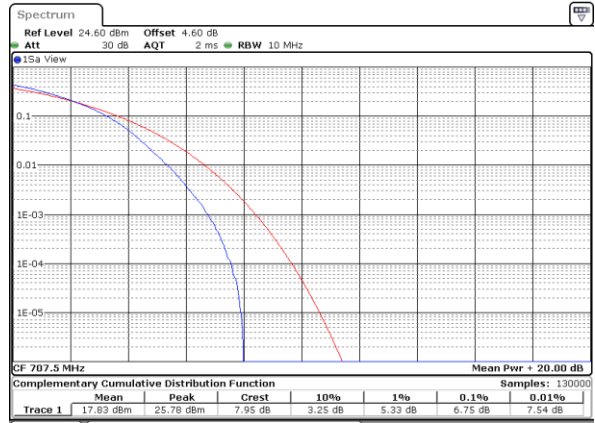
Date: 12 AUG 2020 04:55:35

Middle Channel / 1RB



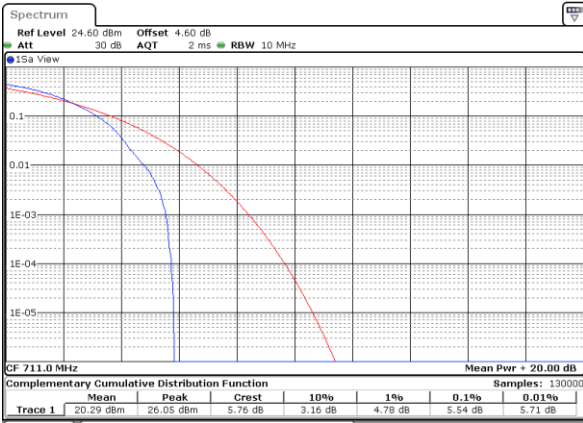
Date: 12 AUG 2020 04:55:53

Middle Channel / Full RB



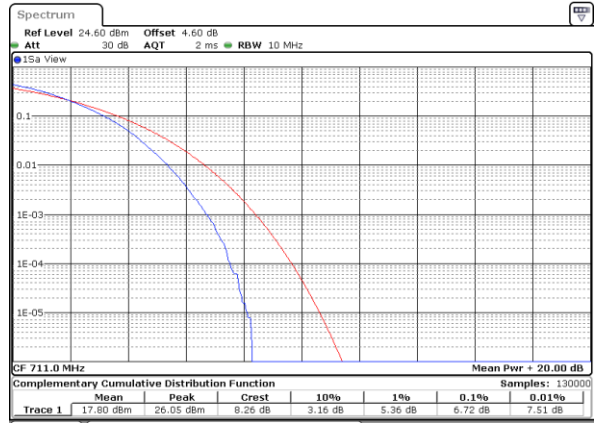
Date: 12 AUG 2020 04:55:44

Highest Channel / 1RB



Date: 12 AUG 2020 04:56:02

Highest Channel / Full RB



Date: 12 AUG 2020 04:56:12



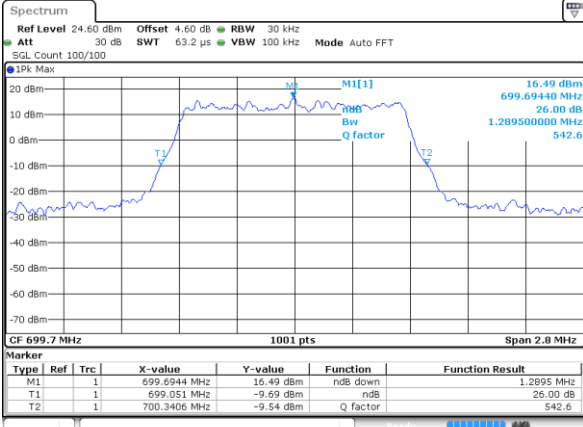
26dB Bandwidth

| Mode | LTE Band 12 : 26dB BW(MHz) | | | | | | | | | | | |
|------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.29 | 1.29 | 3.02 | 3.05 | 4.92 | 4.92 | 9.69 | 9.87 | - | - | - | - |
| Middle CH | 1.29 | 1.28 | 3.02 | 2.97 | 4.92 | 4.91 | 9.75 | 9.93 | - | - | - | - |
| Highest CH | 1.28 | 1.28 | 3.04 | 3.02 | 4.91 | 4.89 | 9.63 | 9.69 | - | - | - | - |
| Mode | LTE Band 12 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.28 | - | 2.97 | - | 4.97 | - | 9.77 | - | - | - | - | - |
| Middle CH | 1.28 | - | 3.00 | - | 4.93 | - | 9.71 | - | - | - | - | - |
| Highest CH | 1.26 | - | 3.03 | - | 4.99 | - | 9.69 | - | - | - | - | - |



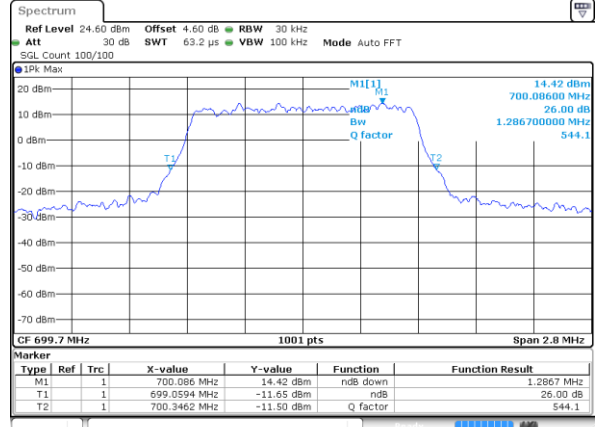
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



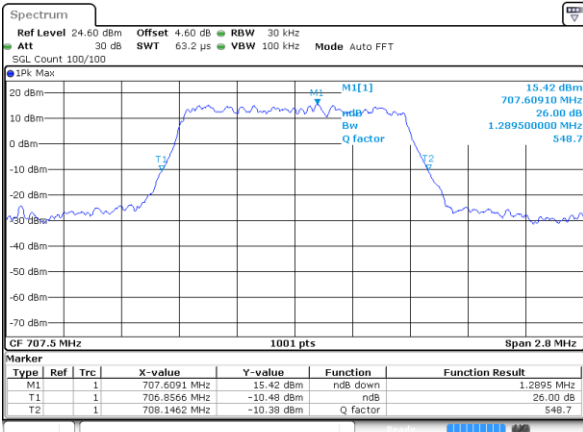
Date: 12 AUG 2020 05:00:36

Lowest Channel / 1.4MHz / 16QAM



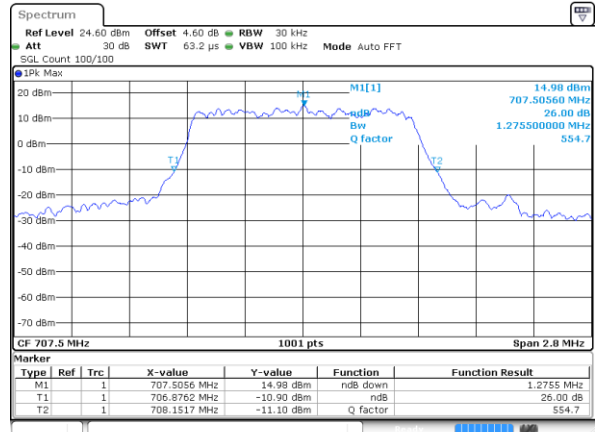
Date: 12 AUG 2020 05:00:26

Middle Channel / 1.4MHz / QPSK



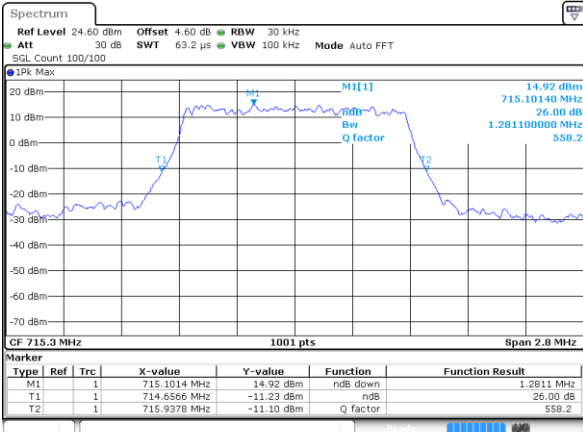
Date: 12 AUG 2020 05:00:06

Middle Channel / 1.4MHz / 16QAM



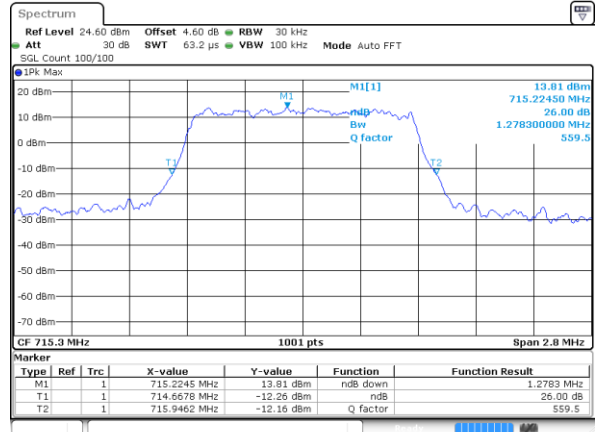
Date: 12 AUG 2020 05:00:16

Highest Channel / 1.4MHz / QPSK



Date: 12 AUG 2020 04:59:56

Highest Channel / 1.4MHz / 16QAM

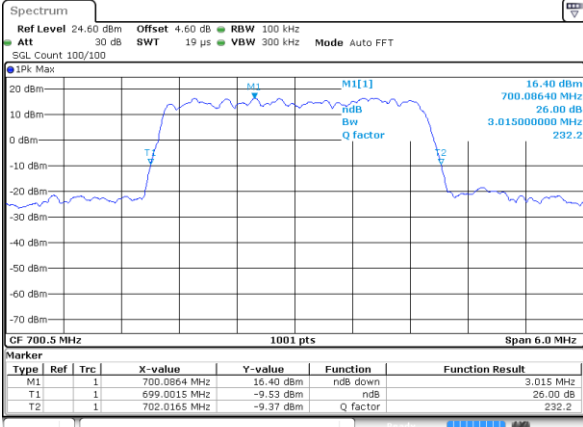


Date: 12 AUG 2020 04:59:46



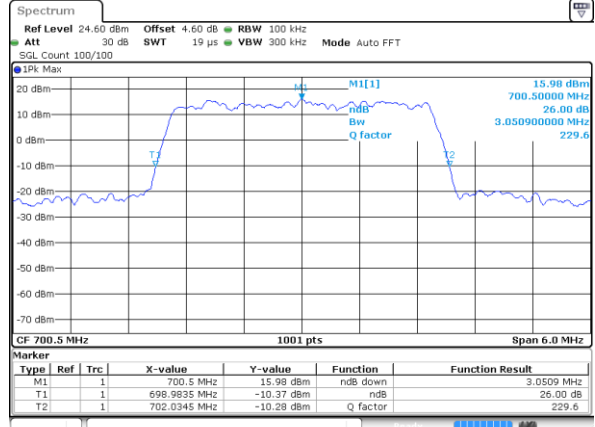
LTE Band 12

Lowest Channel / 3MHz / QPSK



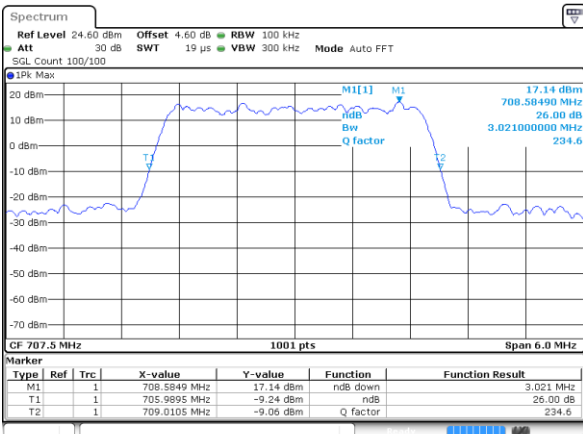
Date: 12 AUG 2020 05:17:06

Lowest Channel / 3MHz / 16QAM



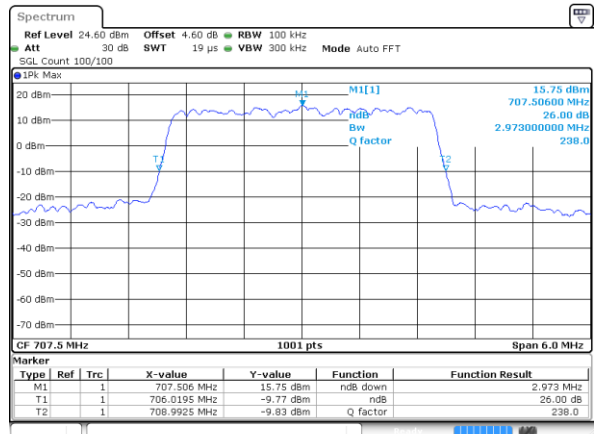
Date: 12 AUG 2020 05:16:56

Middle Channel / 3MHz / QPSK



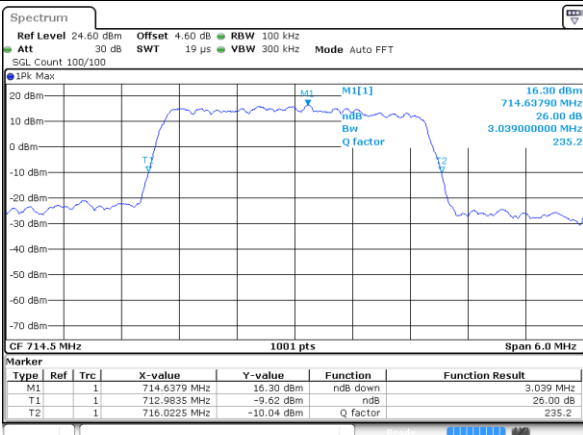
Date: 12 AUG 2020 05:16:36

Middle Channel / 3MHz / 16QAM



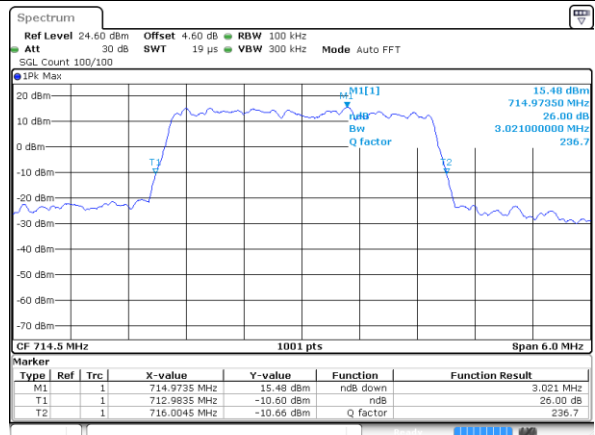
Date: 12 AUG 2020 05:16:46

Highest Channel / 3MHz / QPSK



Date: 12 AUG 2020 05:16:26

Highest Channel / 3MHz / 16QAM



Date: 12 AUG 2020 05:16:15