

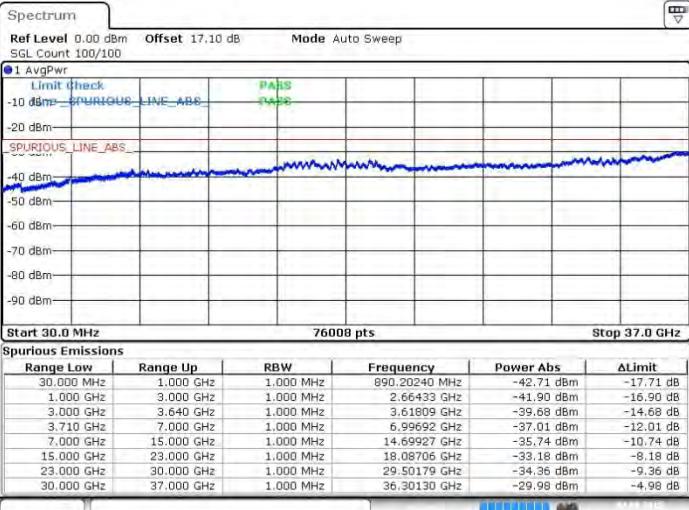
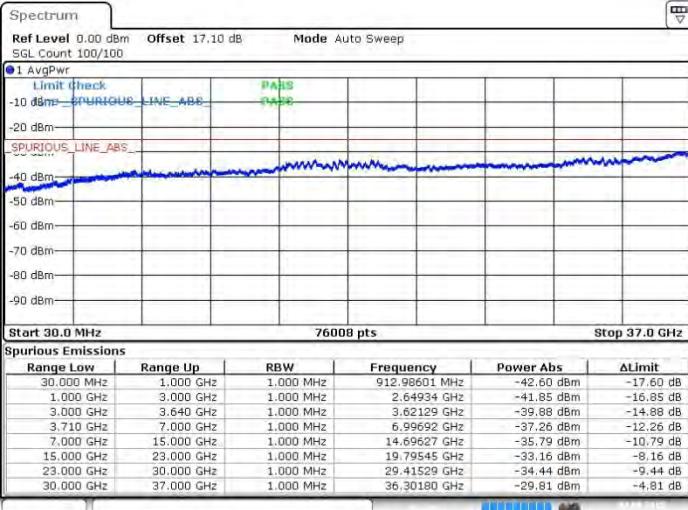


Conducted Spurious Emission

LTE Band 43 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

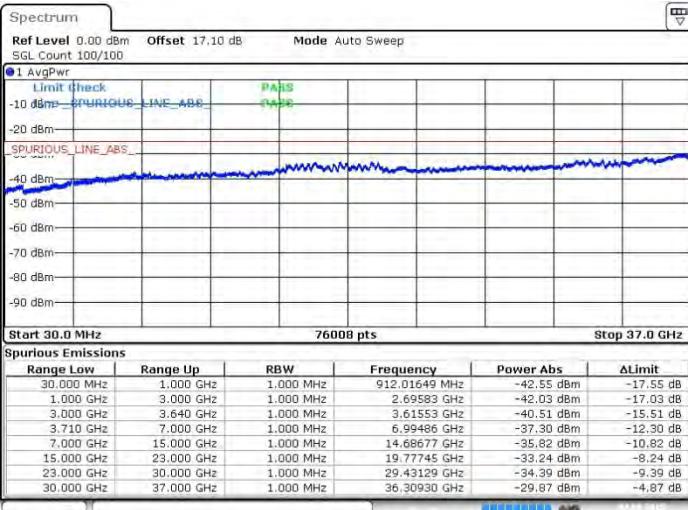


Date: 4 AUG 2015 17:00:57

Date: 4 AUG 2015 17:01:55

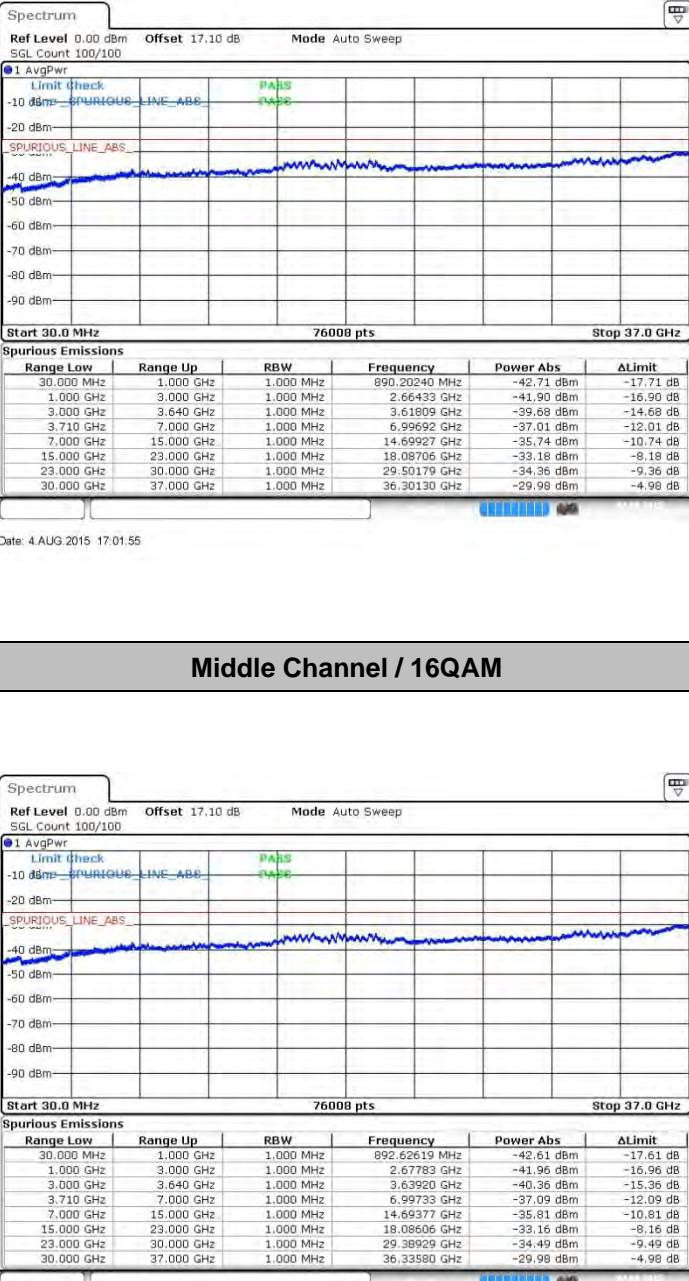
Middle Channel / QPSK

Middle Channel / 16QAM



Date: 4 AUG 2015 17:13:14

Date: 4 AUG 2015 17:14:32

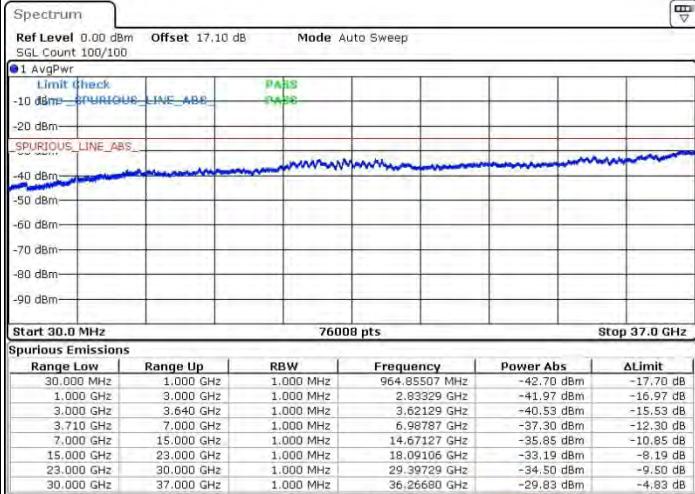
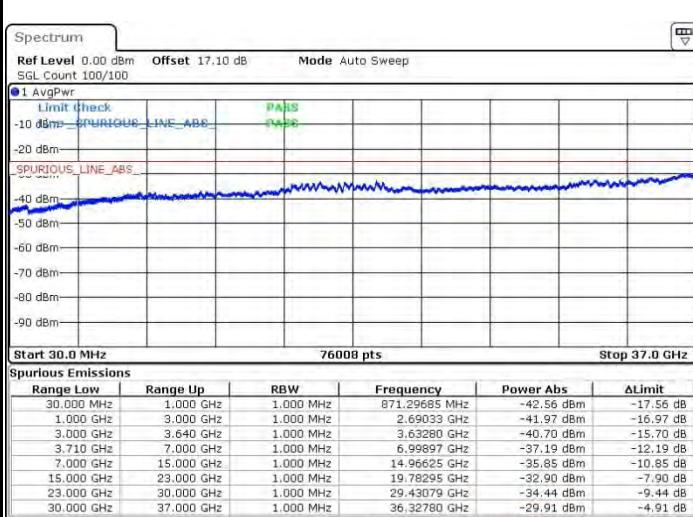




LTE Band 43 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



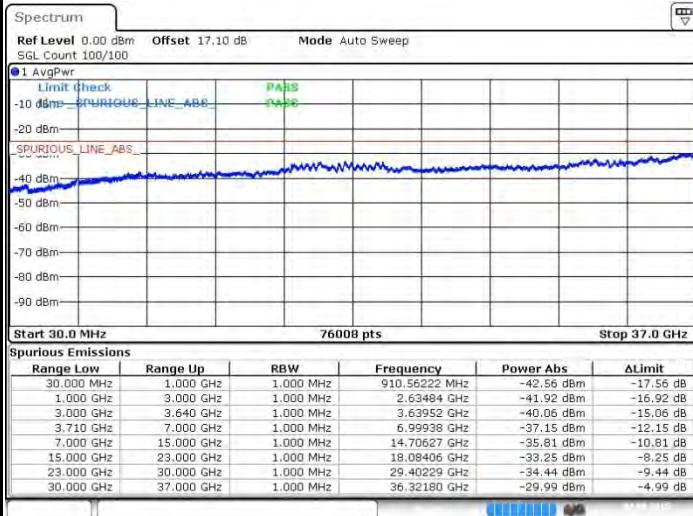
Date: 4 AUG 2015 17:03:04

Date: 4 AUG 2015 17:04:03

LTE Band 43 / 10MHz

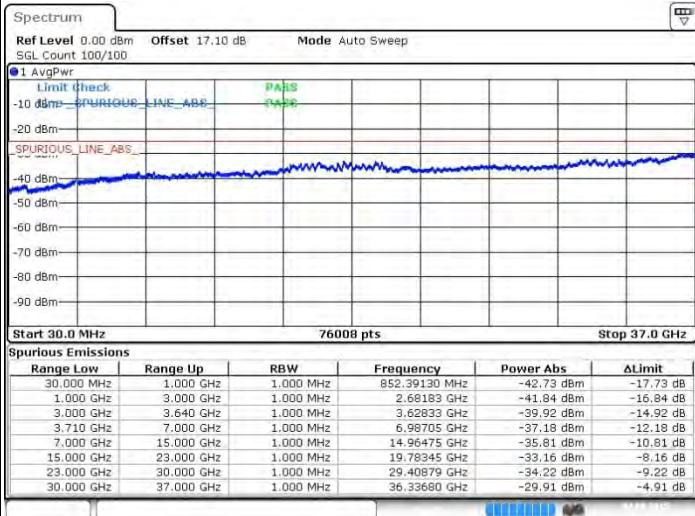
Lowest Channel / QPSK

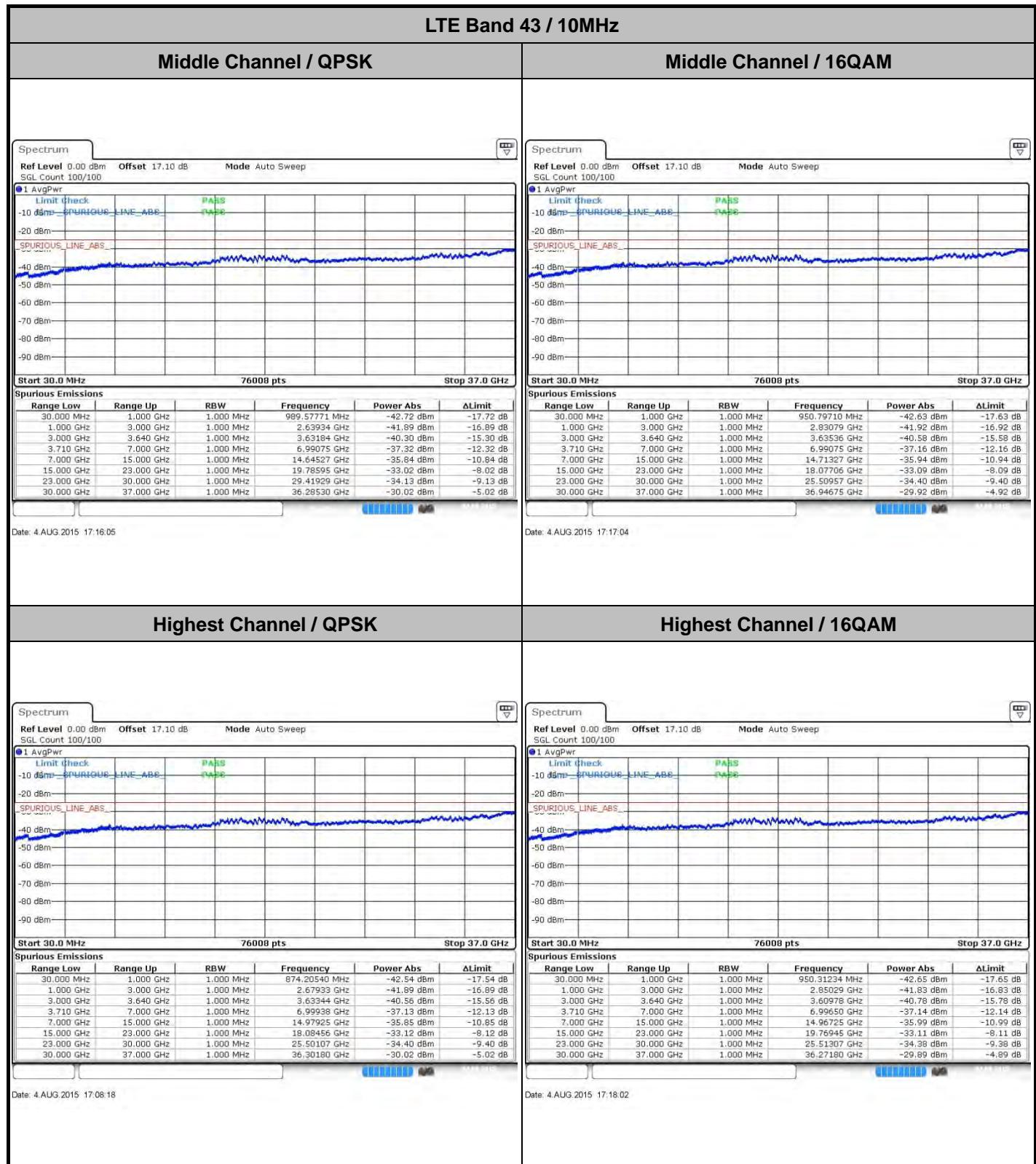
Lowest Channel / 16QAM



Date: 4 AUG 2015 17:05:46

Date: 4 AUG 2015 17:06:44



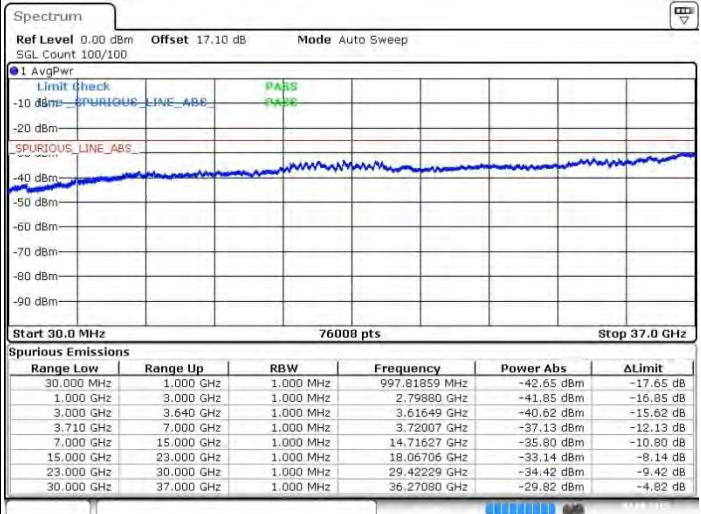
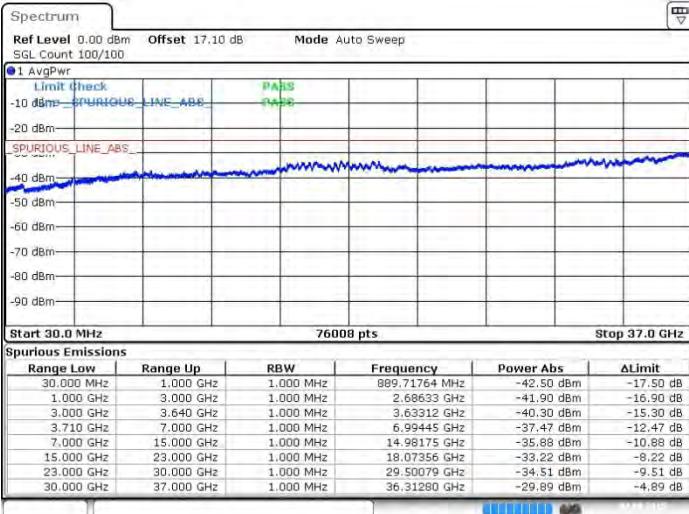




LTE Band 43 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

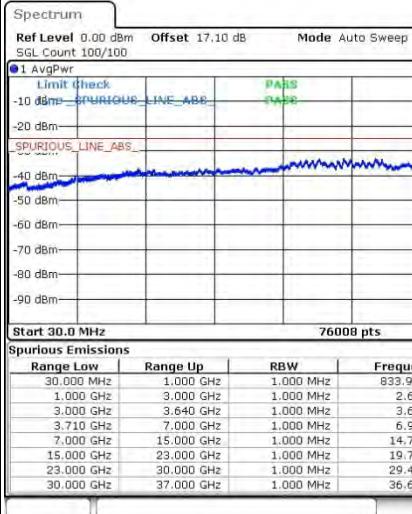
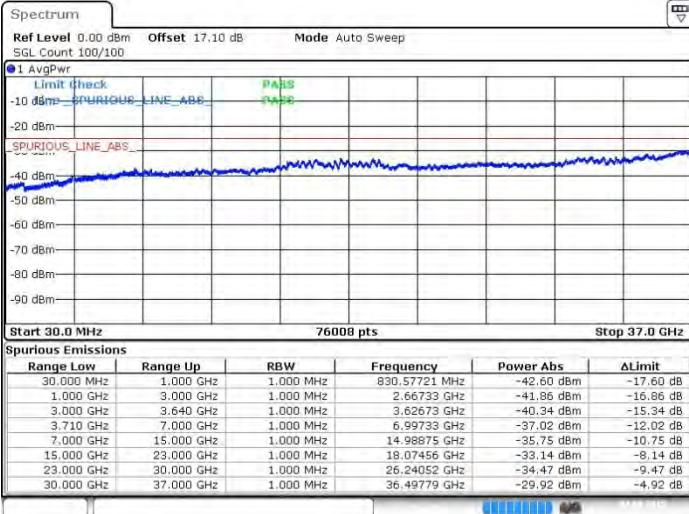


Date: 4 AUG 2015 17:20:34

Date: 4 AUG 2015 17:21:47

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 4 AUG 2015 17:22:45

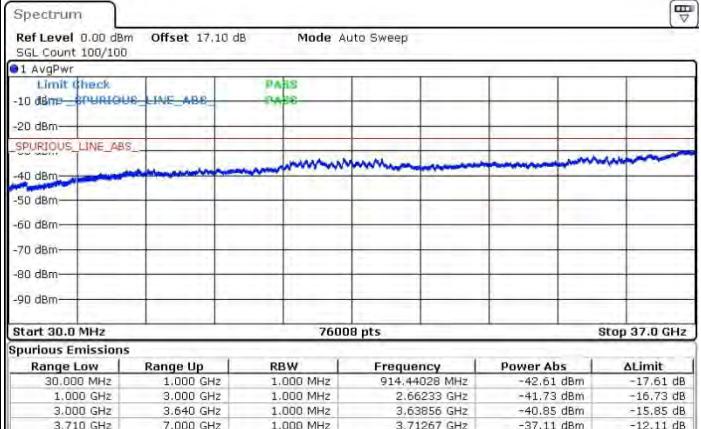
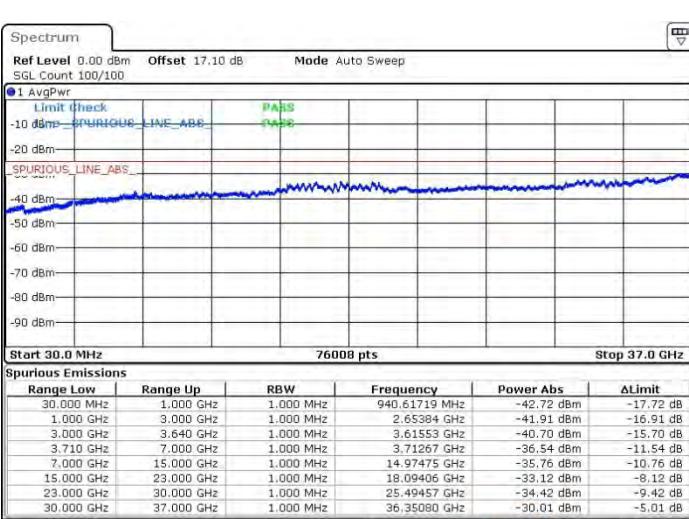
Date: 4 AUG 2015 17:23:43



LTE Band7 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



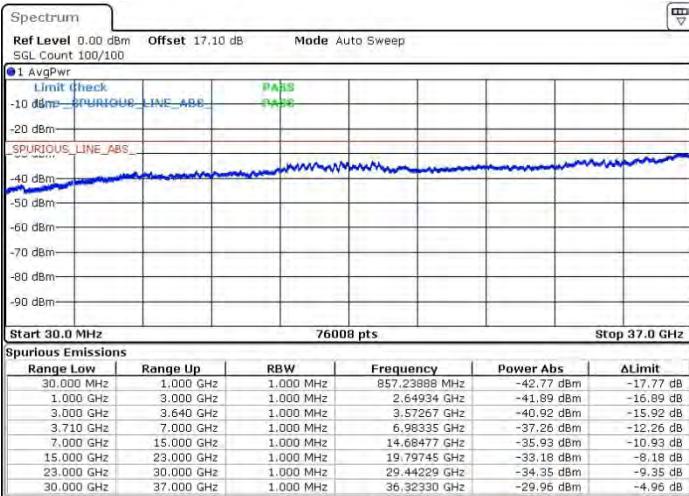
Date: 4 AUG 2015 17:24:42

Date: 4 AUG 2015 17:25:40

LTE Band 43 / 20MHz

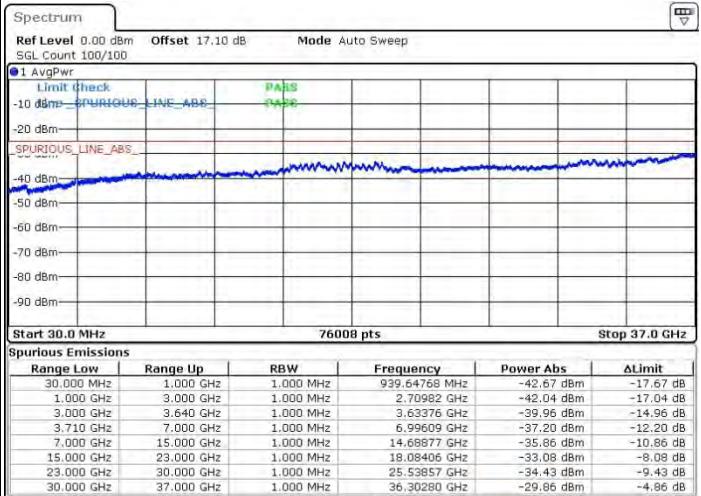
Lowest Channel / QPSK

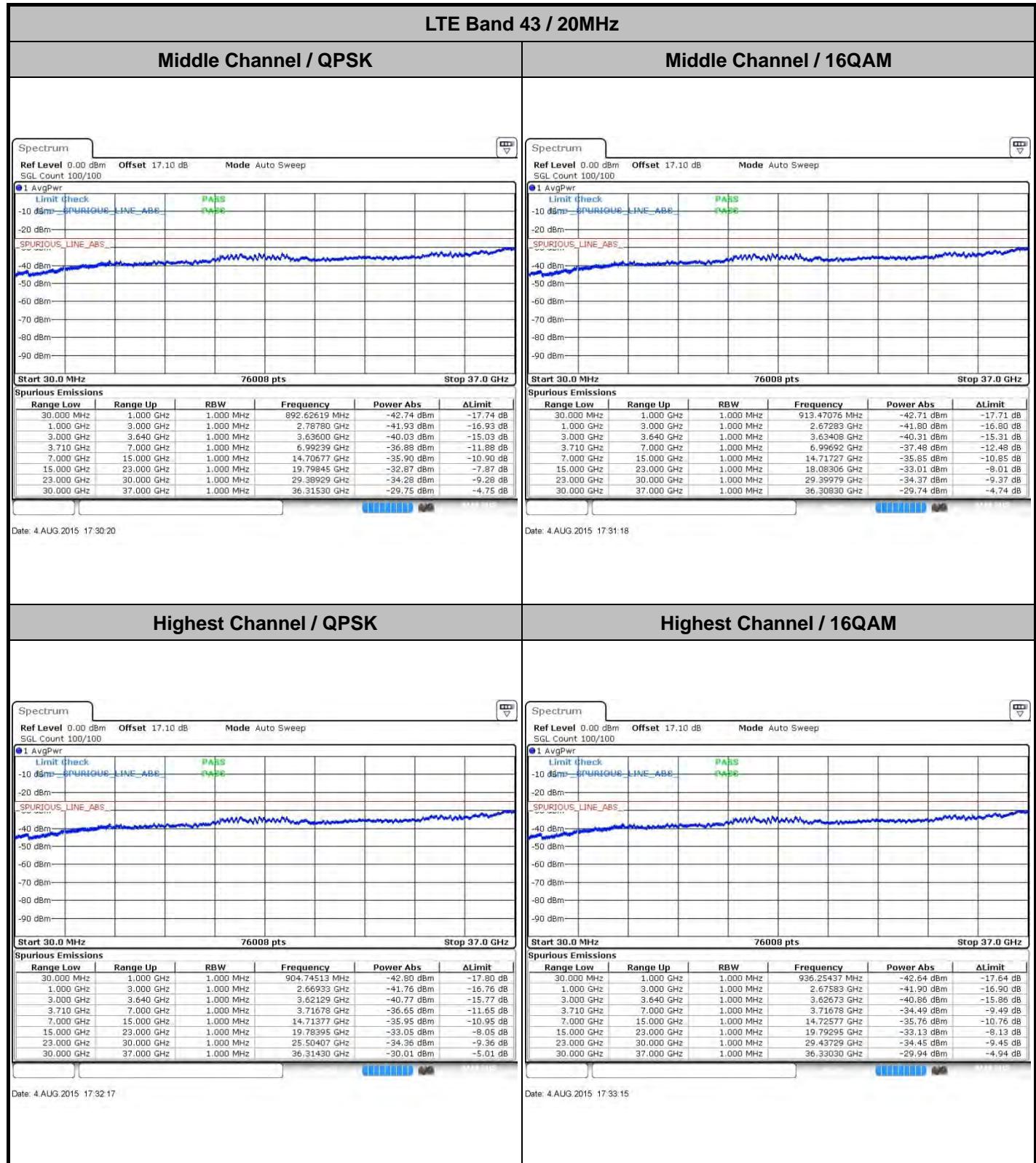
Lowest Channel / 16QAM



Date: 4 AUG 2015 17:28:07

Date: 4 AUG 2015 17:29:21





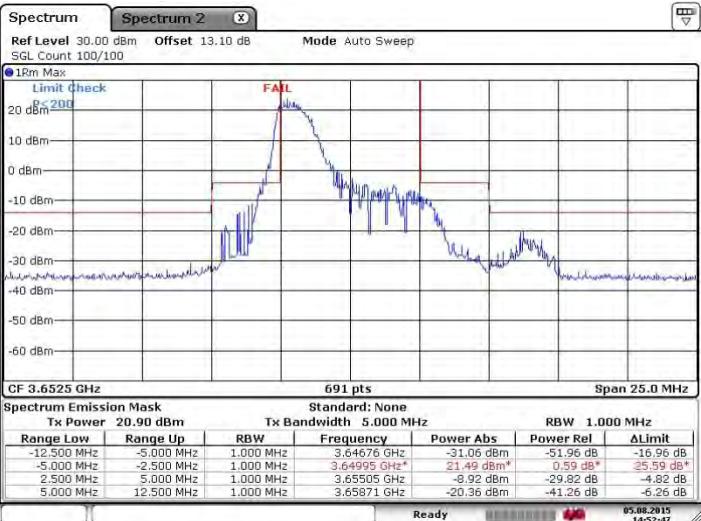


MASK

LTE Band 43 / 5MHz

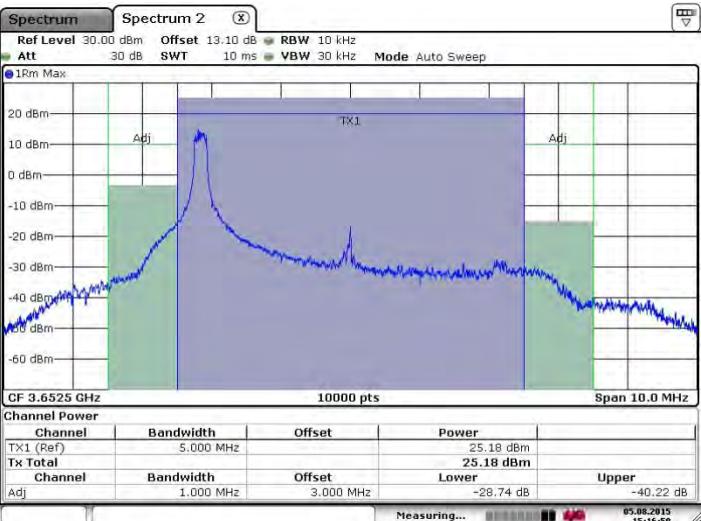
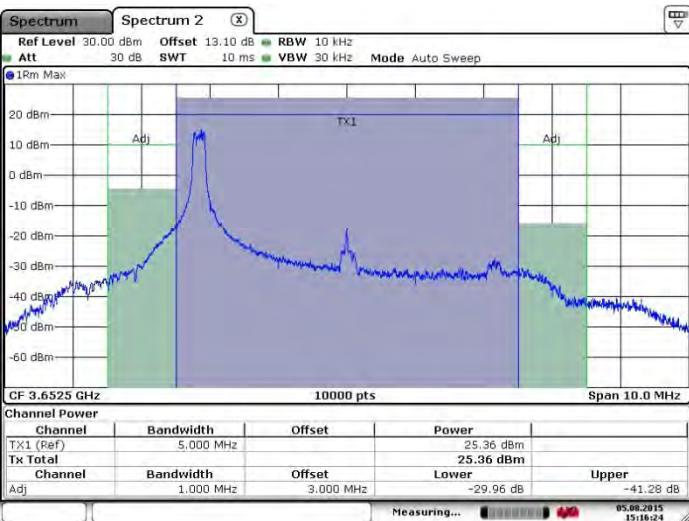
Low channel / 1 RB 0 / QPSK

Low channel / 1 RB 0 / 16QAM



Date: 5 AUG 2015 14:52:35

Date: 5 AUG 2015 14:52:46



Date: 5 AUG 2015 15:16:25

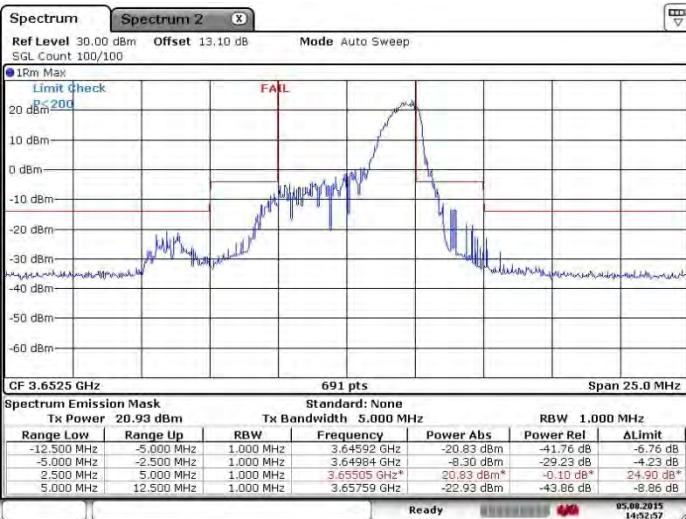
Date: 5 AUG 2015 15:16:59



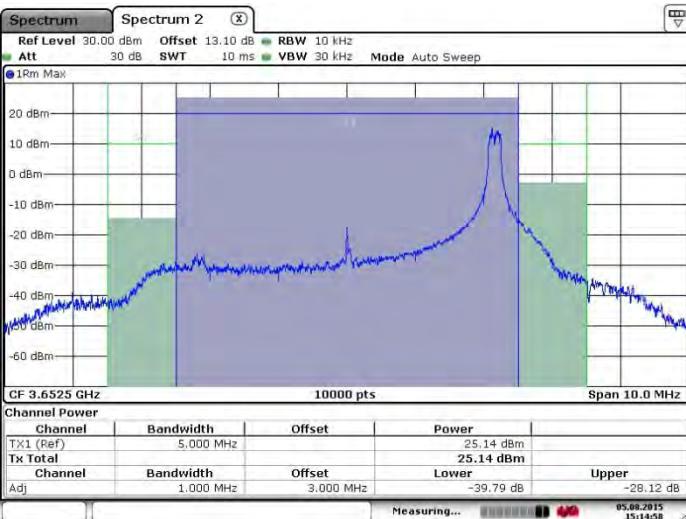
LTE Band 43 / 5MHz

Low channel / 1 RB Max / QPSK

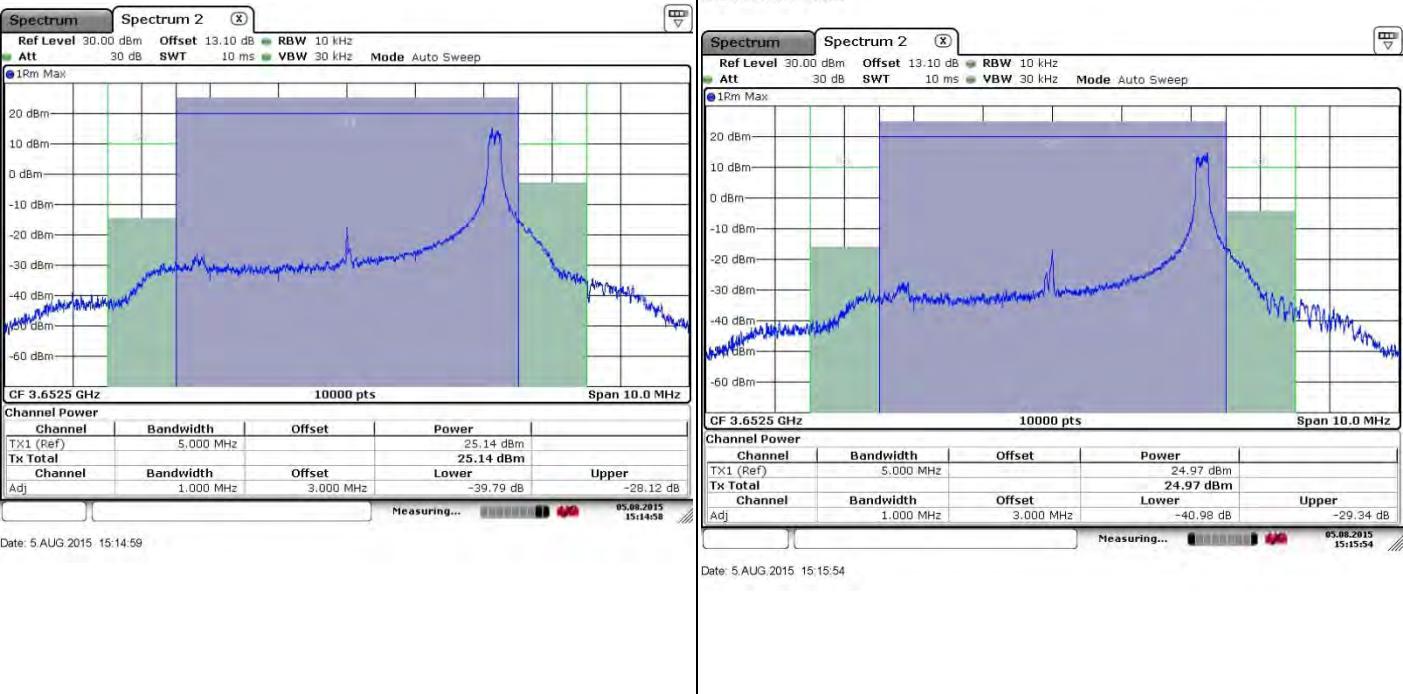
Low channel / 1 RB Max / 16QAM



Date: 5 AUG 2015 14:52:57



Date: 5 AUG 2015 15:14:58



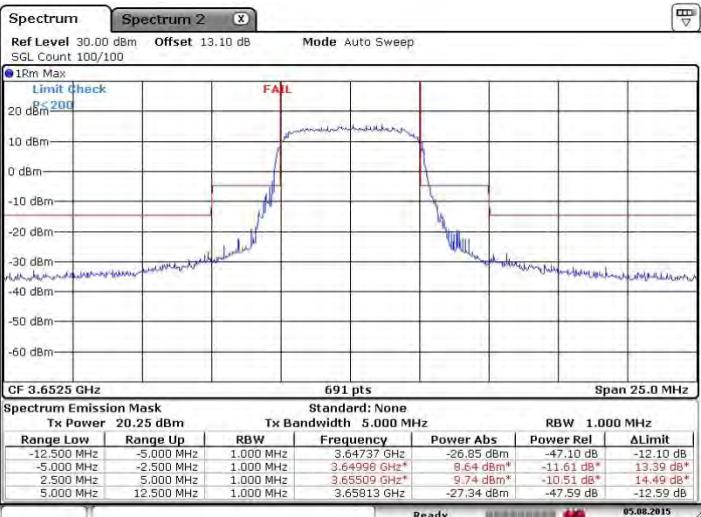
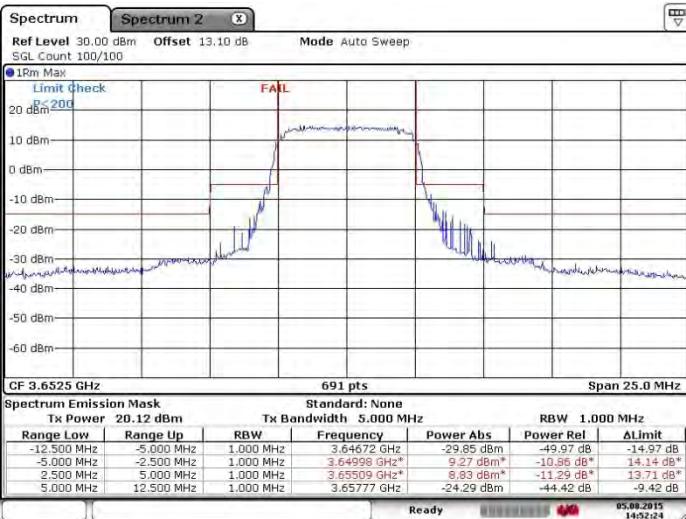
Date: 5 AUG 2015 15:15:54



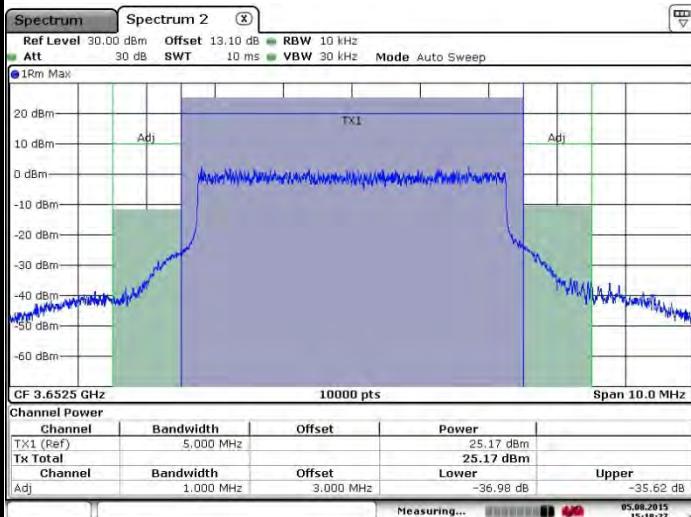
LTE Band 43 / 5MHz

Low channel / Full RB / QPSK

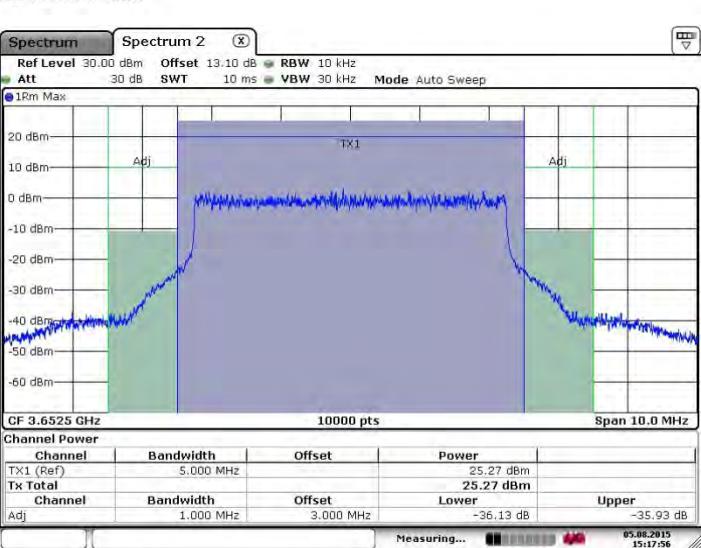
Low channel / Full RB / 16QAM



Date: 5 AUG 2015 14:52:25



Date: 5 AUG 2015 15:18:27



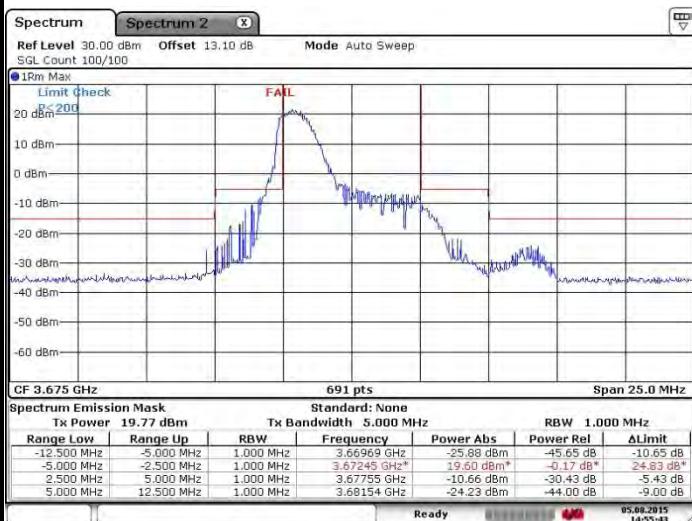
Date: 5 AUG 2015 15:17:56



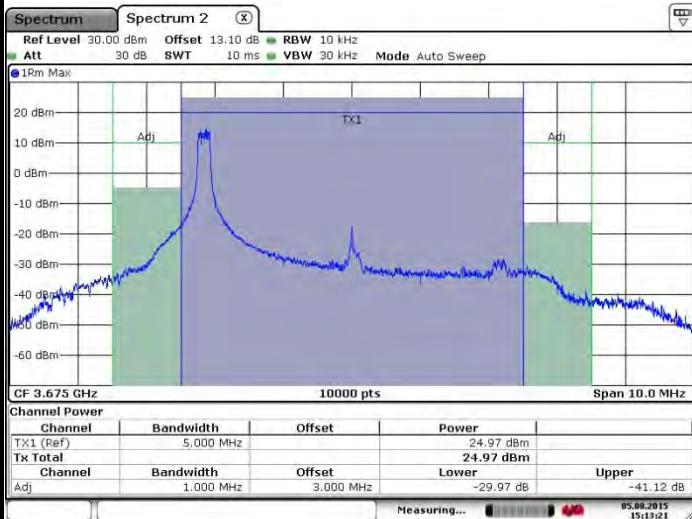
LTE Band 43 / 5MHz

Middle channel / 1 RB 0 / QPSK

Middle channel / 1 RB 0 / 16QAM



Date: 5 AUG 2015 14:55:43



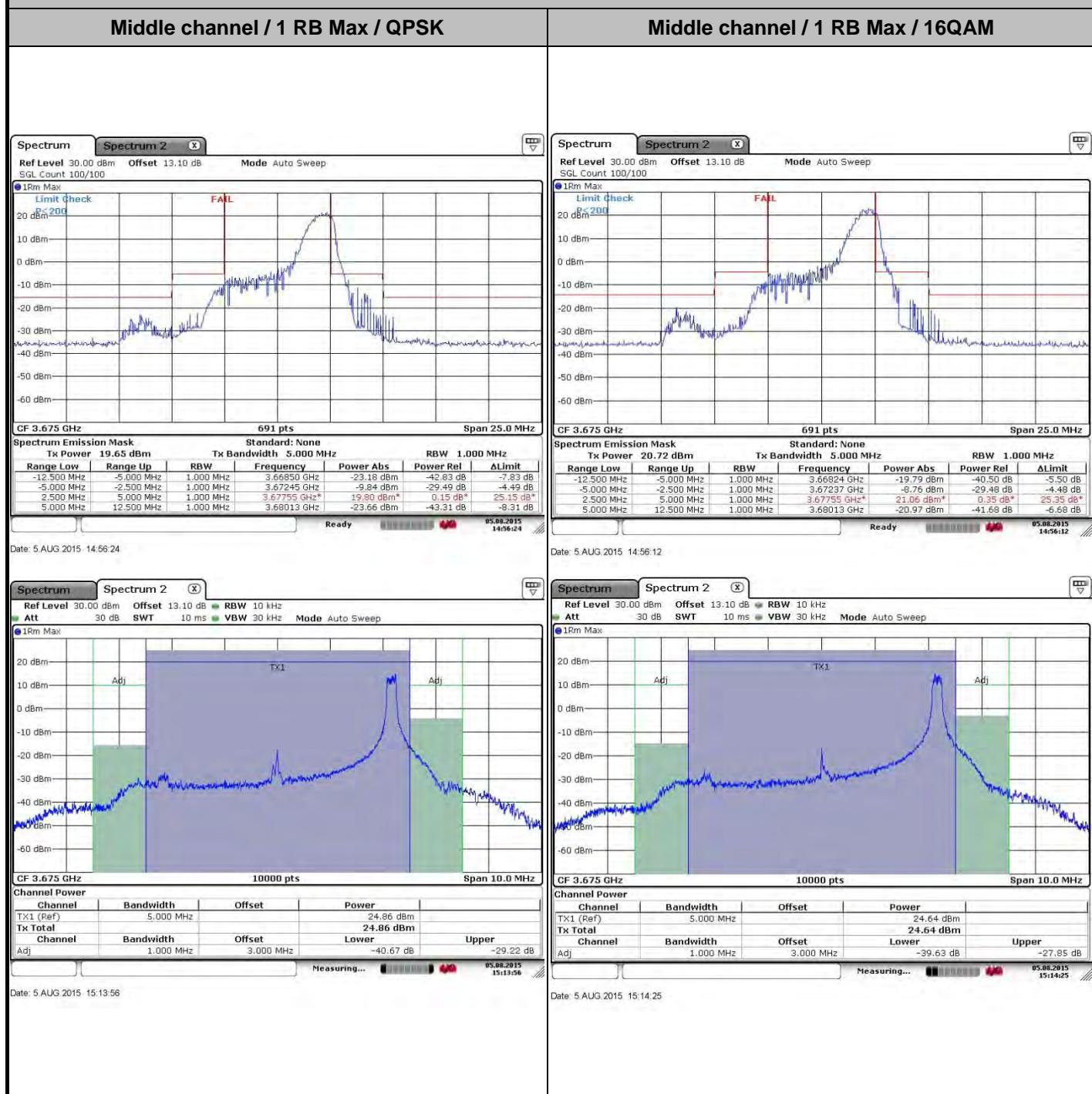
Date: 5 AUG 2015 14:56:02

Date: 5 AUG 2015 15:13:21

Date: 5 AUG 2015 15:12:41



LTE Band 43 / 5MHz

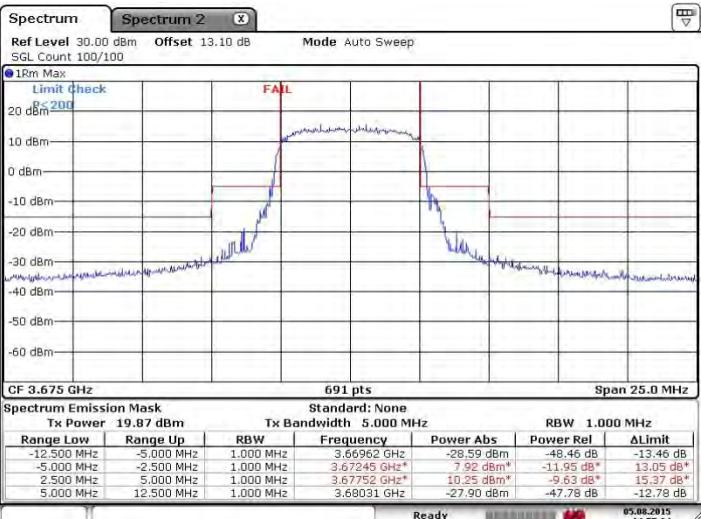
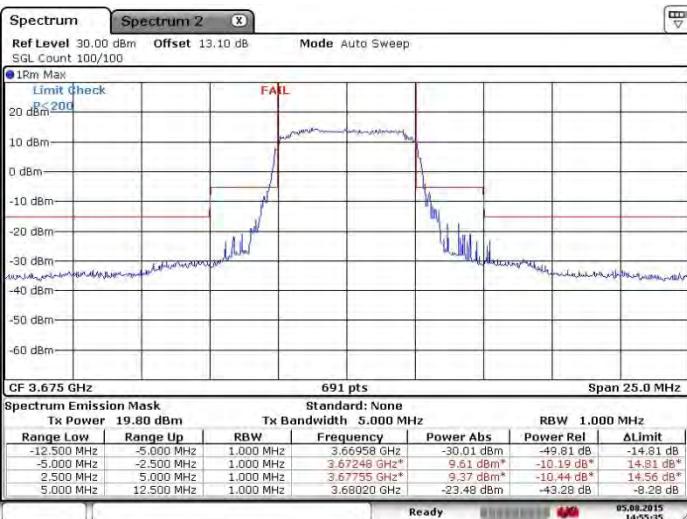




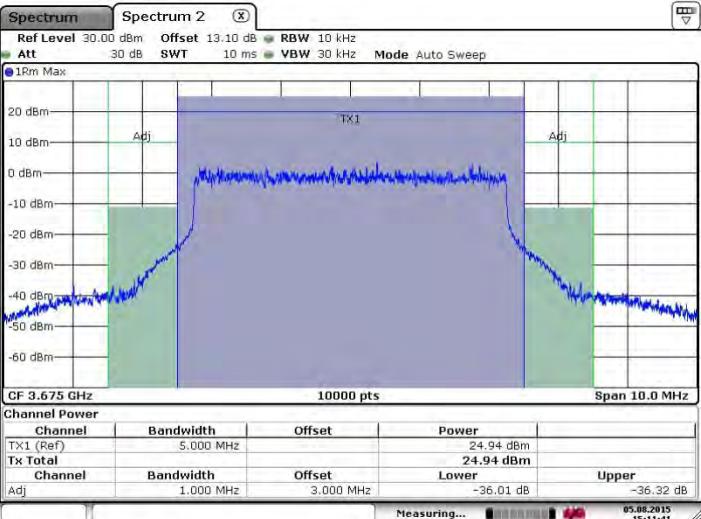
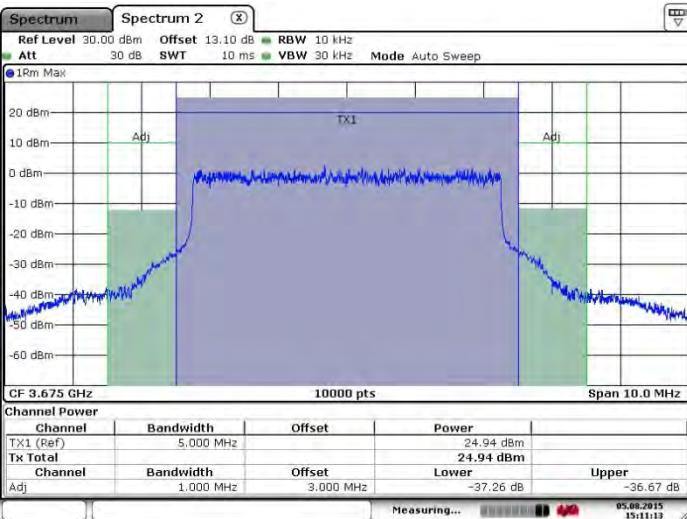
LTE Band 43 / 5MHz

Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM



Date: 5 AUG 2015 14:55:35



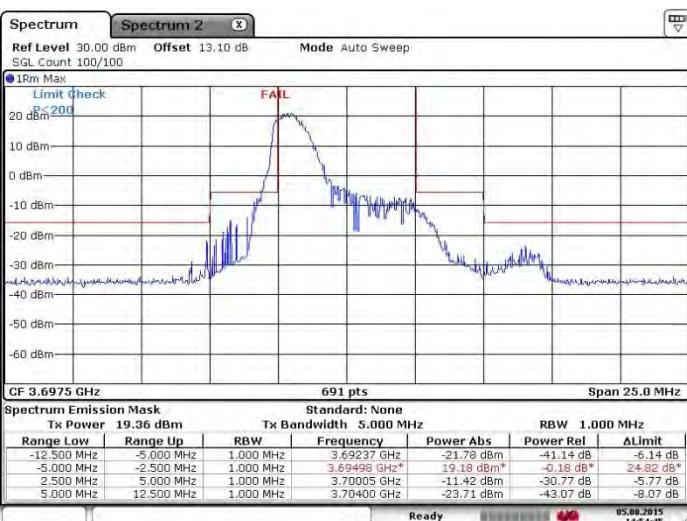
Date: 5 AUG 2015 15:11:13



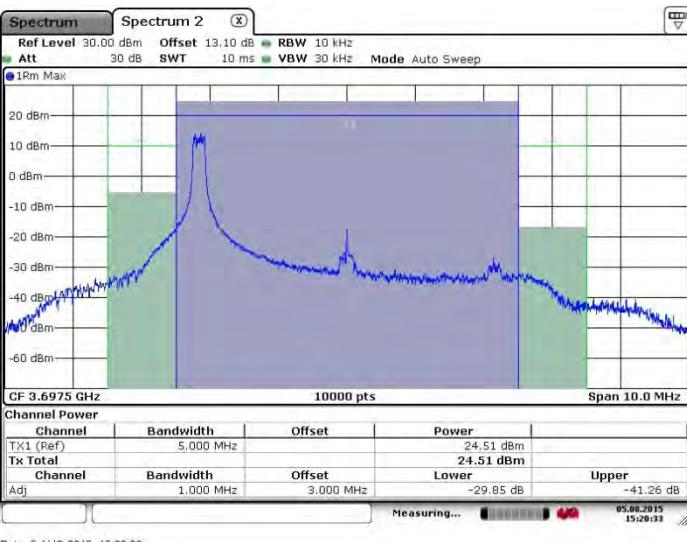
LTE Band 43 / 5MHz

High channel / 1 RB 0 / QPSK

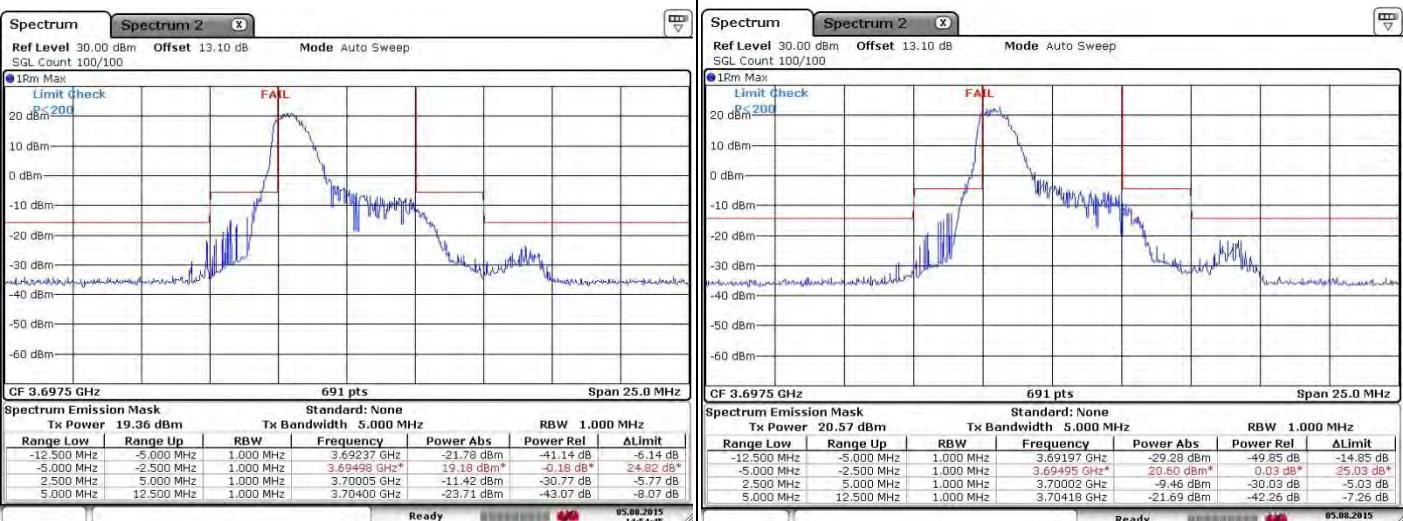
High channel / 1 RB 0 / 16QAM



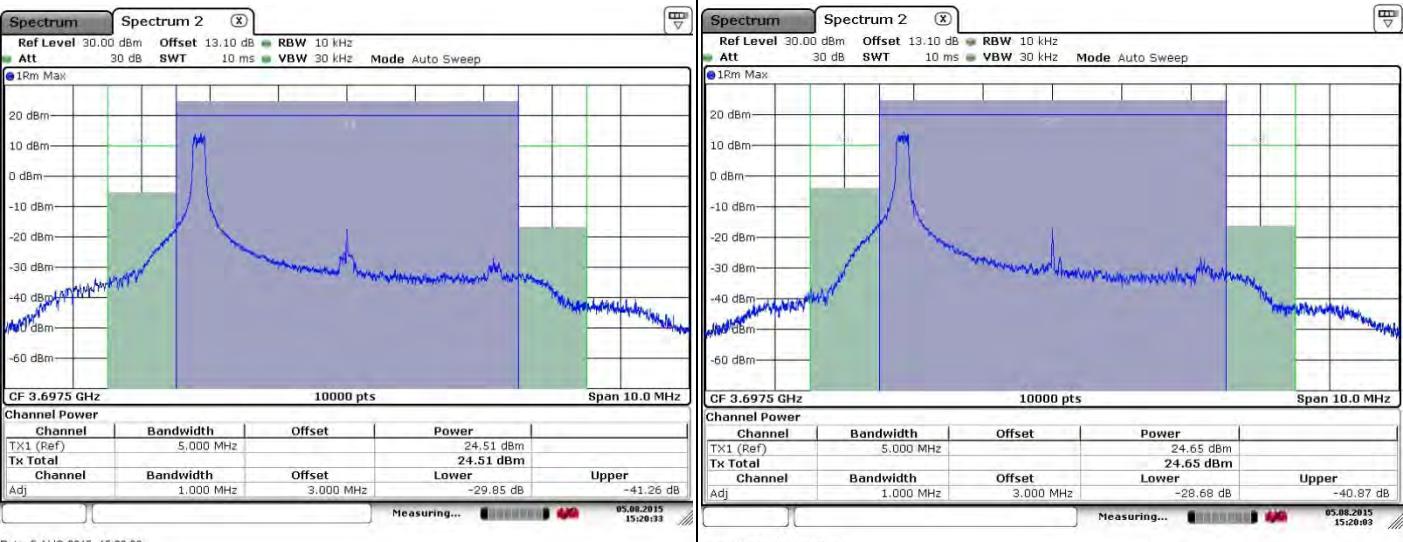
Date: 5 AUG 2015 14:54:45



Date: 5 AUG 2015 15:20:33



Date: 5 AUG 2015 14:54:31



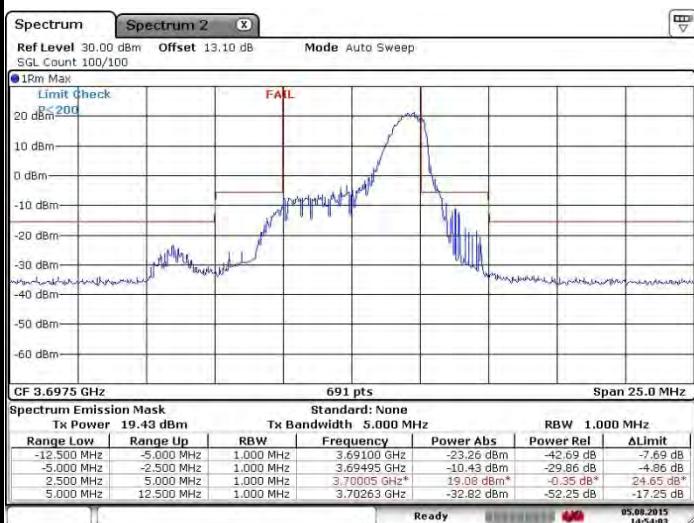
Date: 5 AUG 2015 15:20:03



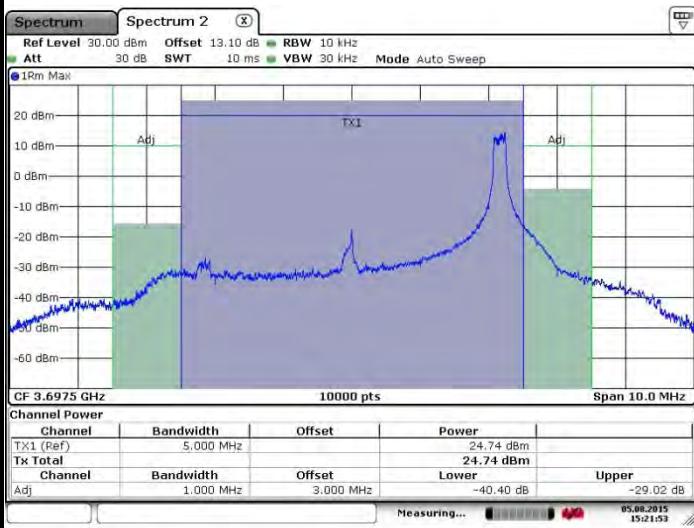
LTE Band 43 / 5MHz

High channel / 1 RB Max / QPSK

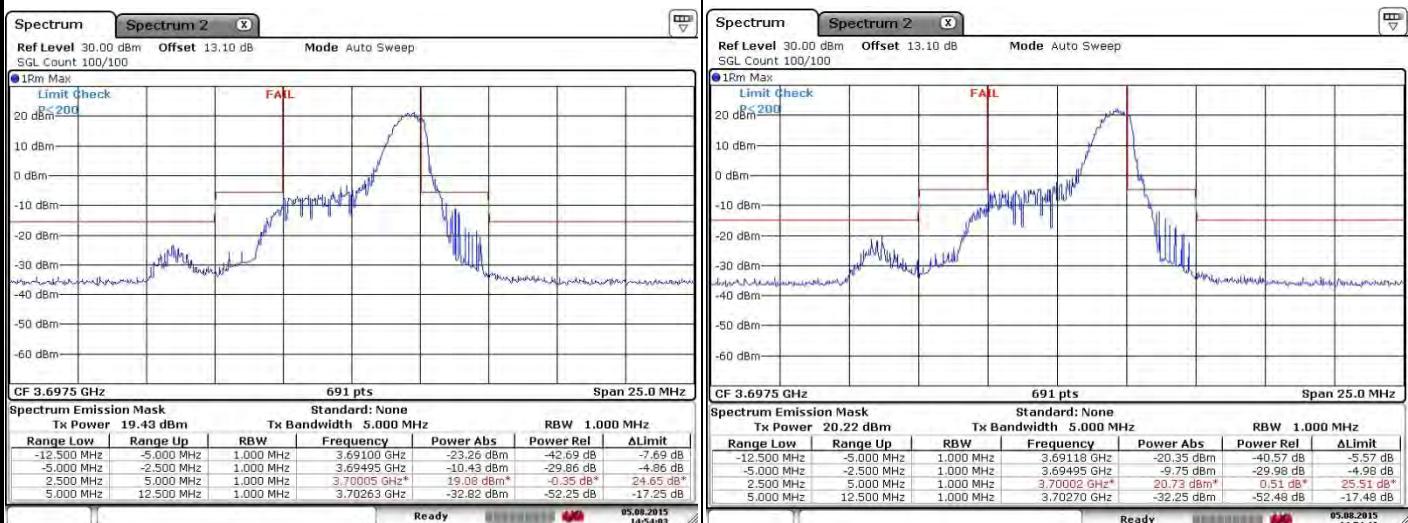
High channel / 1 RB Max / 16QAM



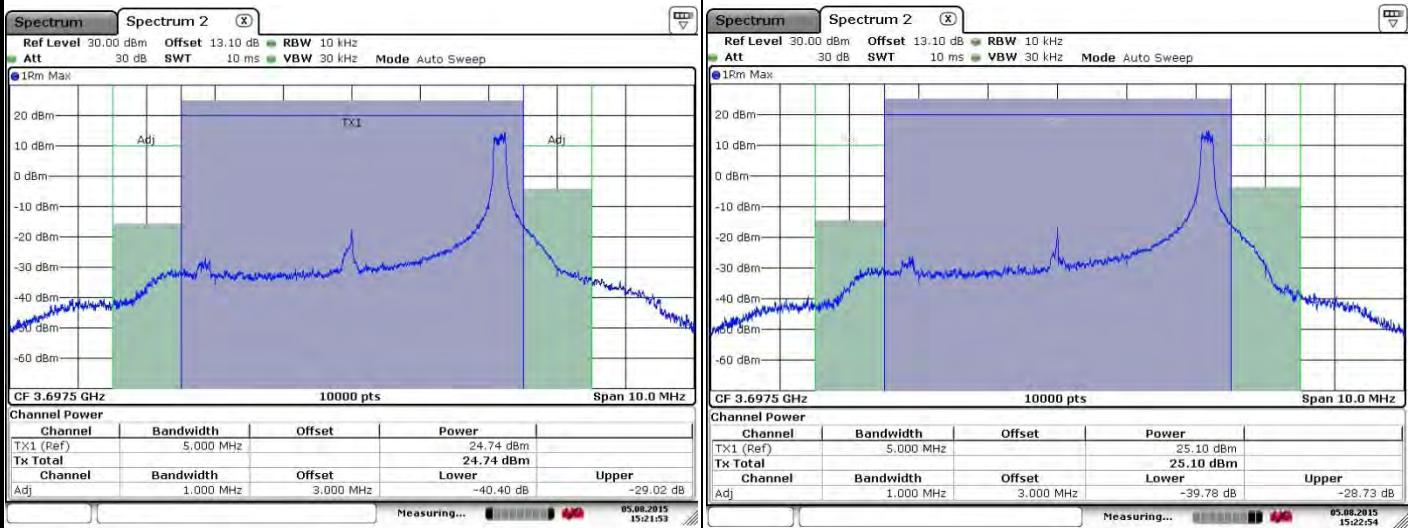
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Date: 5 AUG 2015 15:21:53



Date: 5 AUG 2015 14:54:18



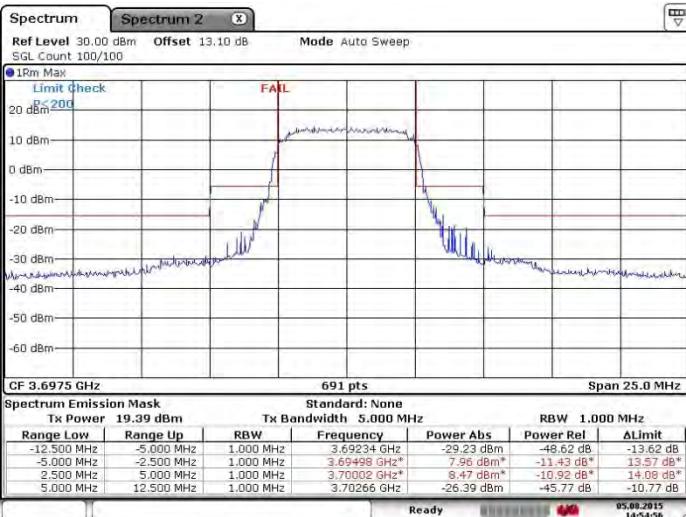
Date: 5 AUG 2015 15:22:53



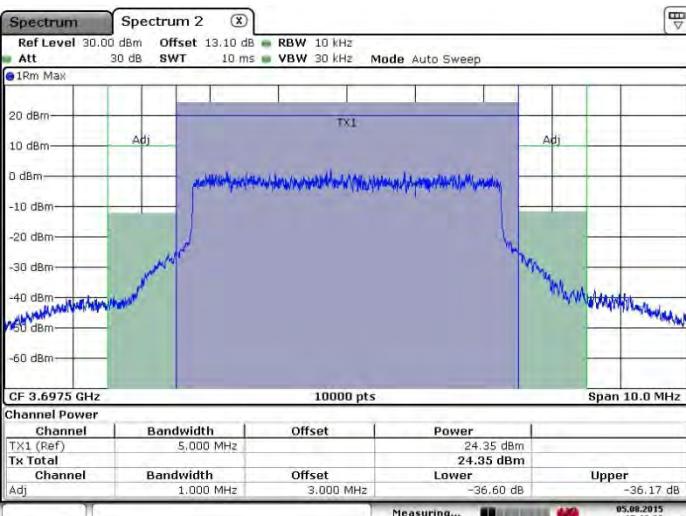
LTE Band 43 / 5MHz

High channel / Full RB / QPSK

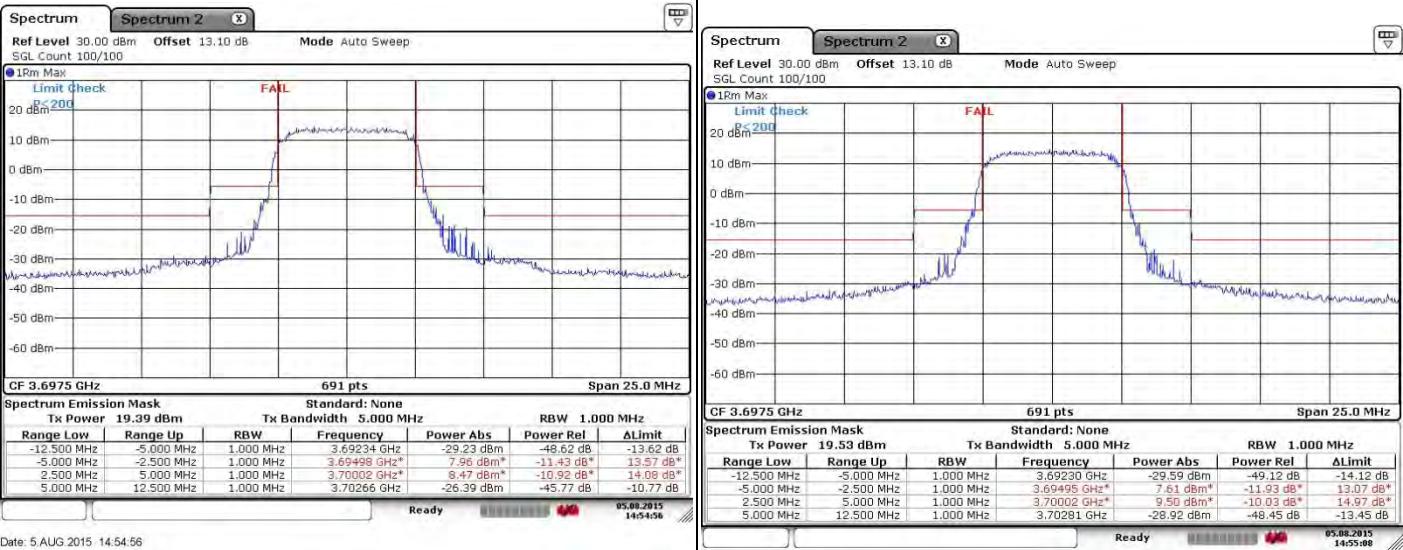
High channel / Full RB / 16QAM



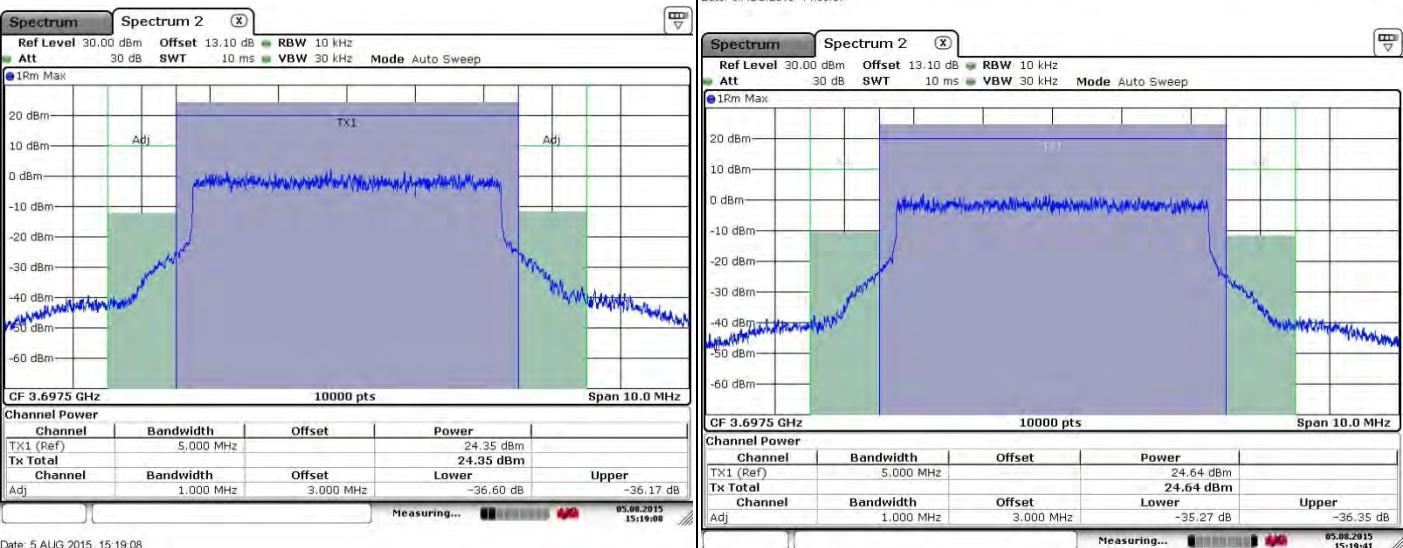
Date: 5 AUG 2015 14:54:56



Date: 5 AUG 2015 15:19:00



Date: 5 AUG 2015 14:55:07



Date: 5 AUG 2015 15:19:41



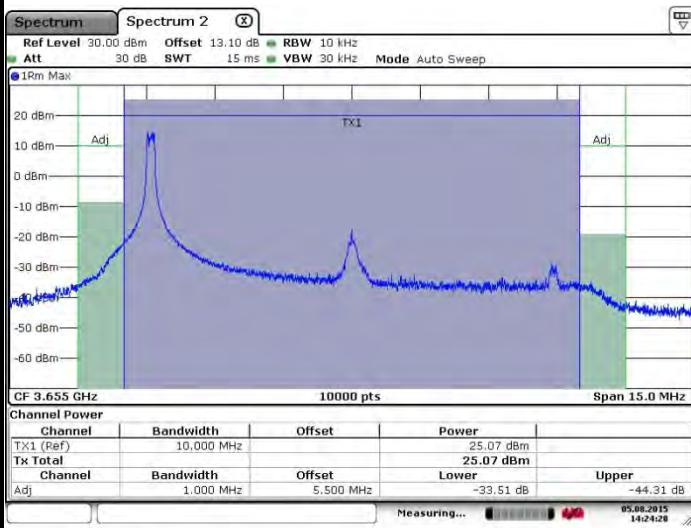
LTE Band 43 / 10MHz

Low channel / 1 RB 0 / QPSK

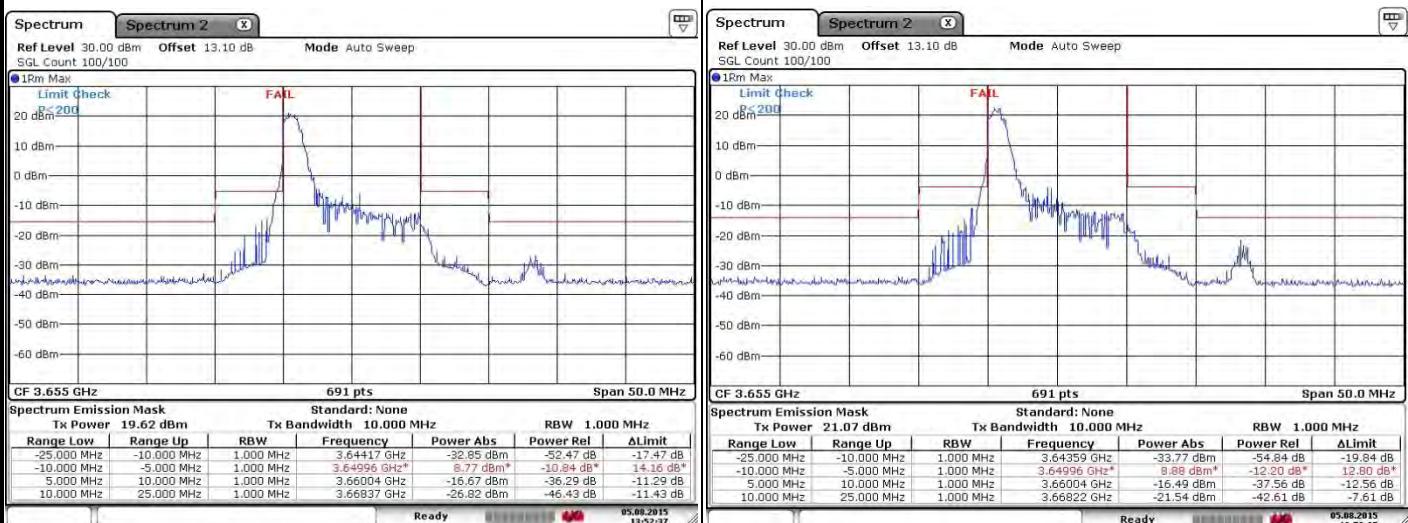
Low channel / 1 RB 0 / 16QAM



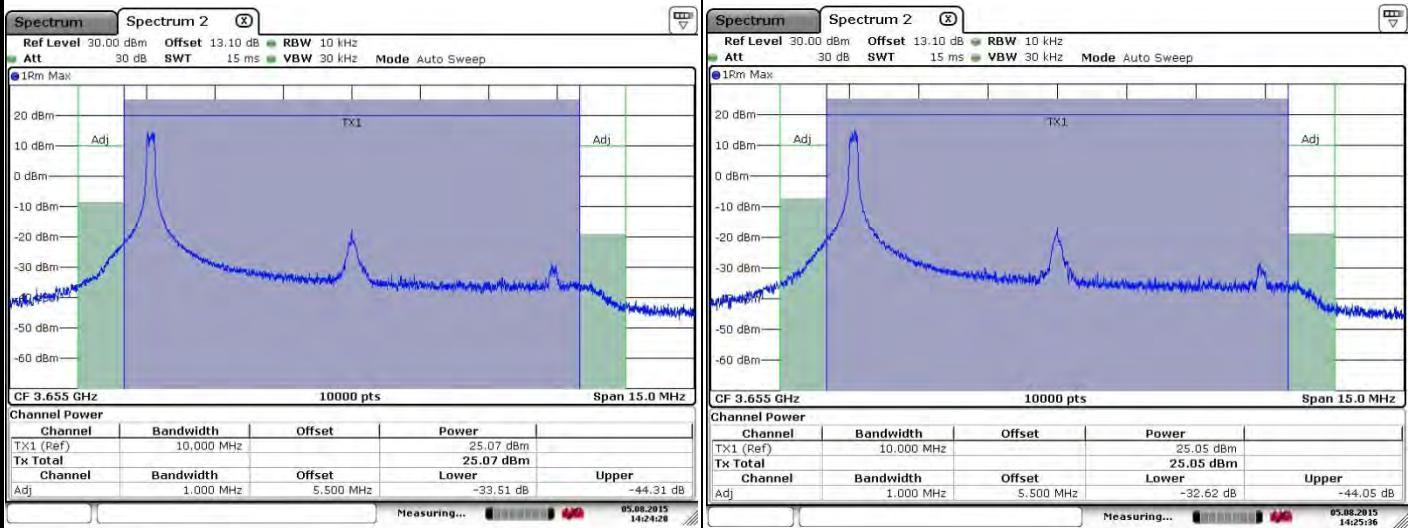
Date: 5 AUG 2015 13:52:37



Date: 5 AUG 2015 14:24:29



Date: 5 AUG 2015 13:52:26



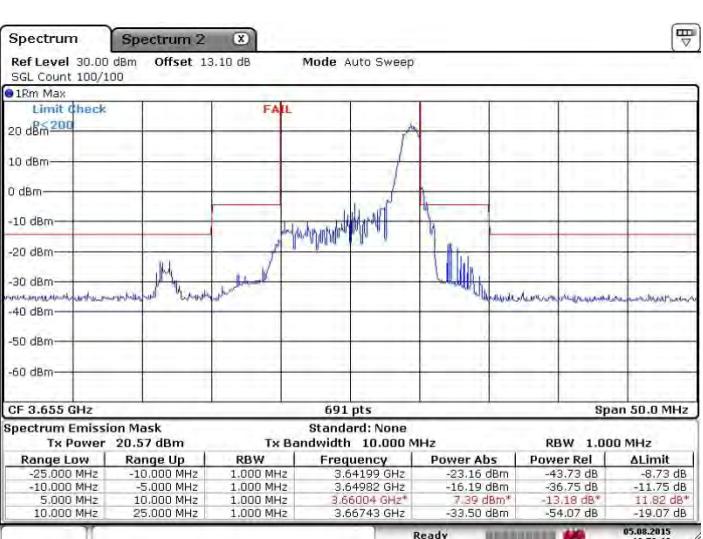
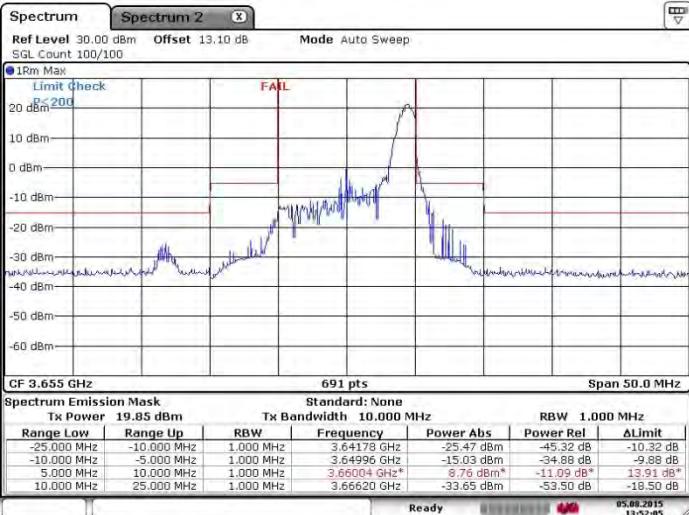
Date: 5 AUG 2015 14:25:37



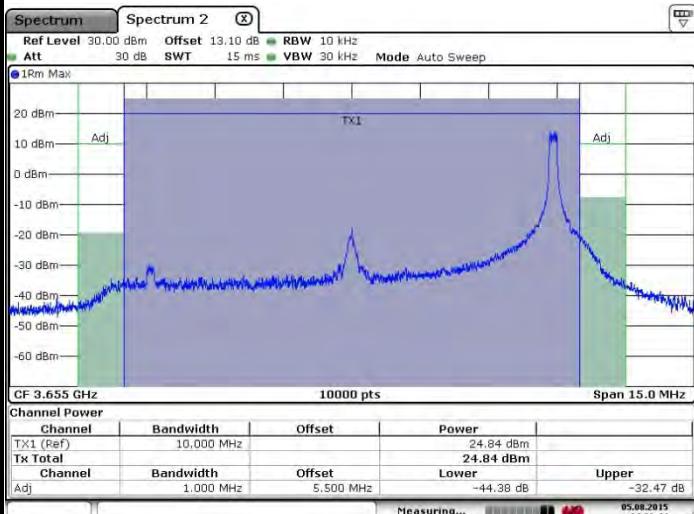
LTE Band 43 / 10MHz

Low channel / 1 RB Max / QPSK

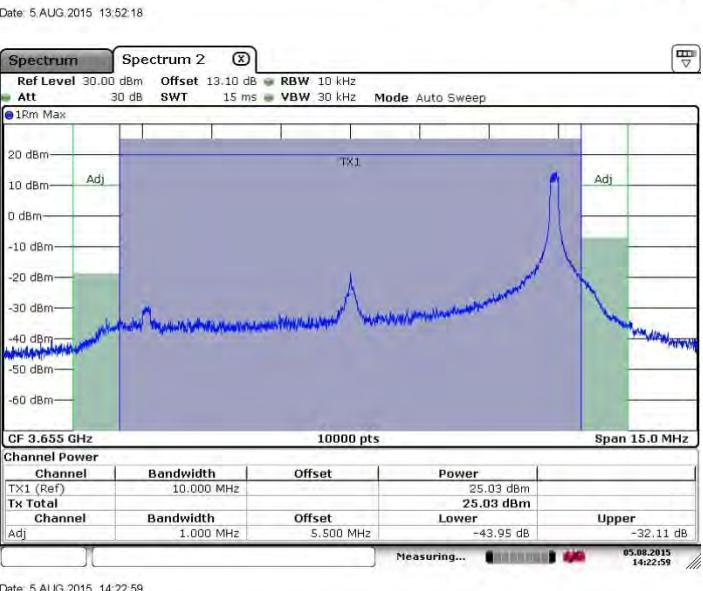
Low channel / 1 RB Max / 16QAM



Date: 5 AUG 2015 13:52:05



Date: 5 AUG 2015 14:26:44



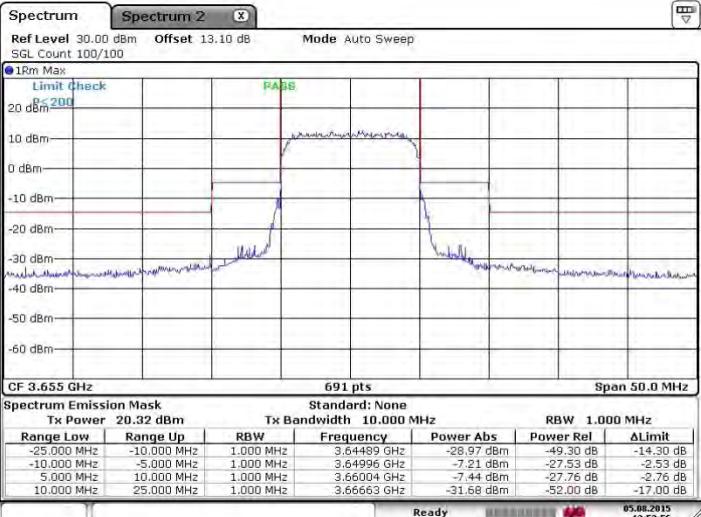
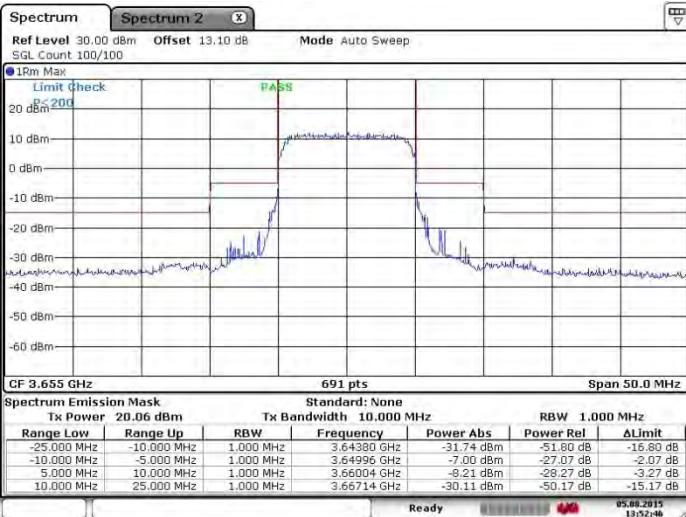
Date: 5 AUG 2015 14:22:59



LTE Band 43 / 10MHz

Low channel / Full RB / QPSK

Low channel / Full RB / 16QAM

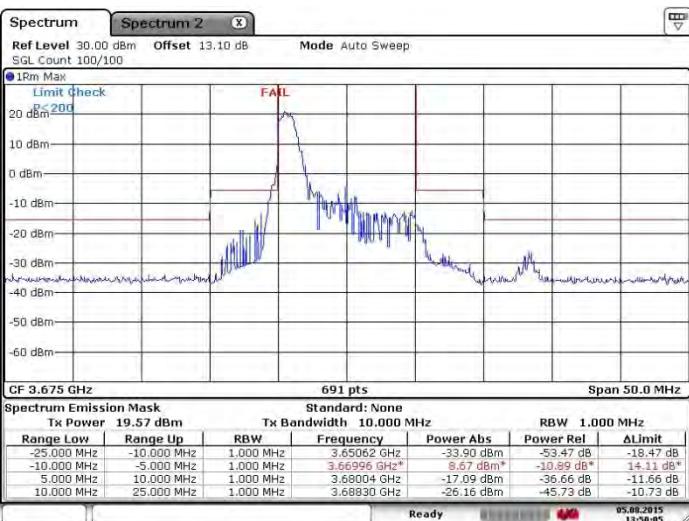




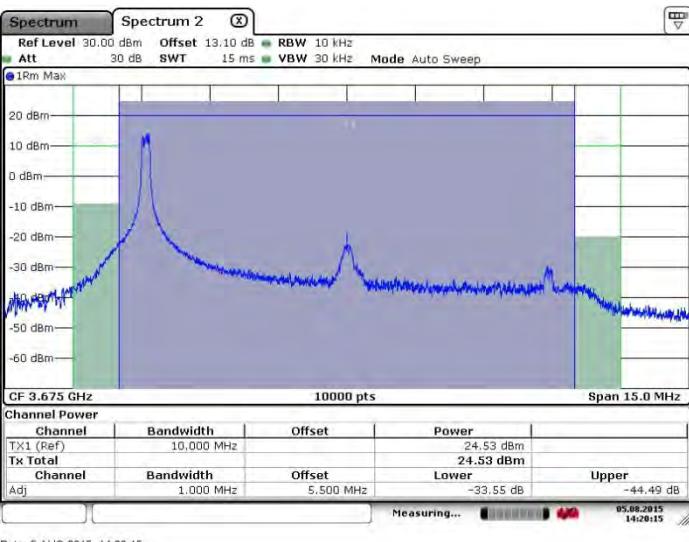
LTE Band 43 / 10MHz

Middle channel / 1 RB 0 / QPSK

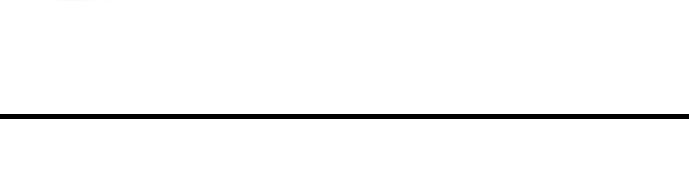
Middle channel / 1 RB 0 / 16QAM



Date: 5 AUG 2015 13:50:05



Date: 5 AUG 2015 13:49:23



Date: 5 AUG 2015 14:20:15



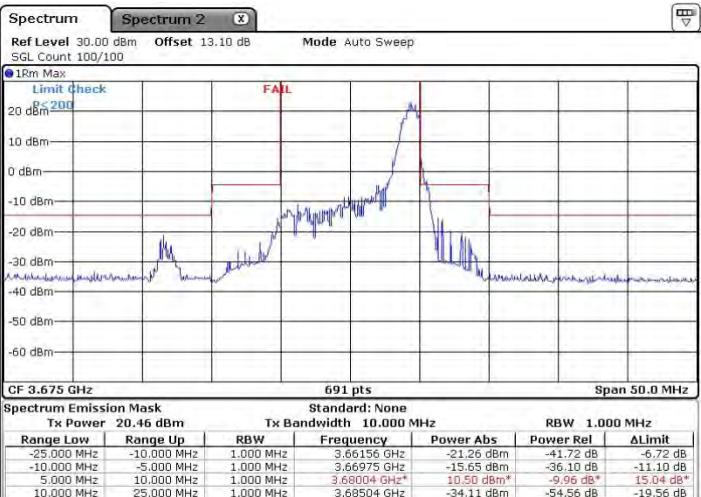
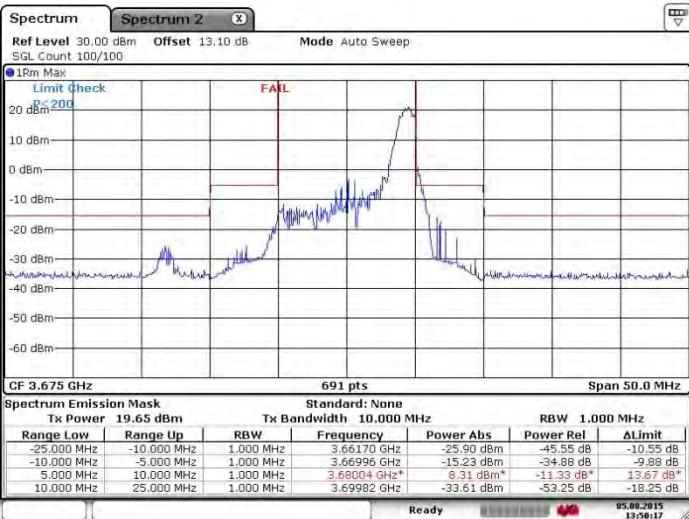
Date: 5 AUG 2015 14:19:35



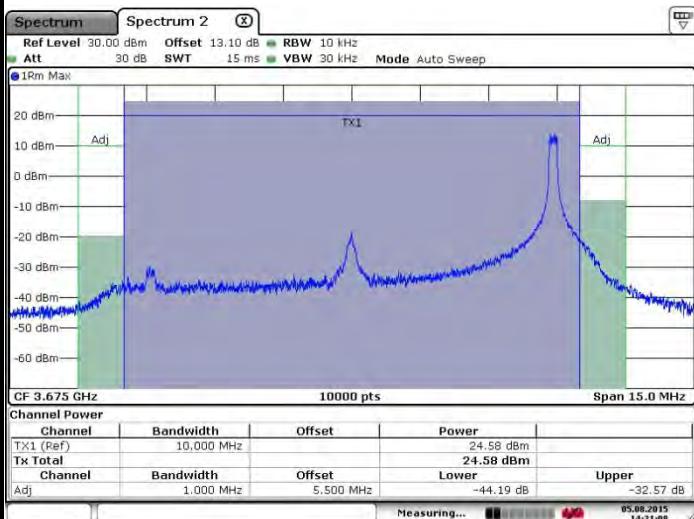
LTE Band 43 / 10MHz

Middle channel / 1 RB Max / QPSK

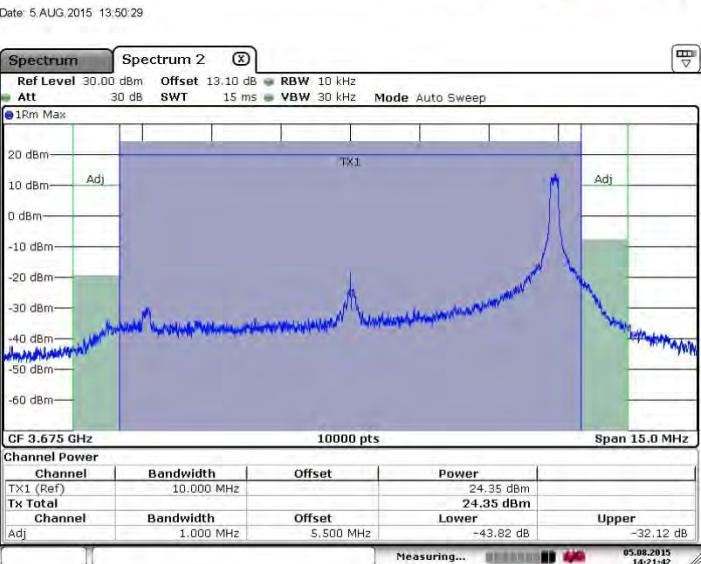
Middle channel / 1 RB Max / 16QAM



Date: 5 AUG 2015 13:50:17



Date: 5 AUG 2015 14:21:09



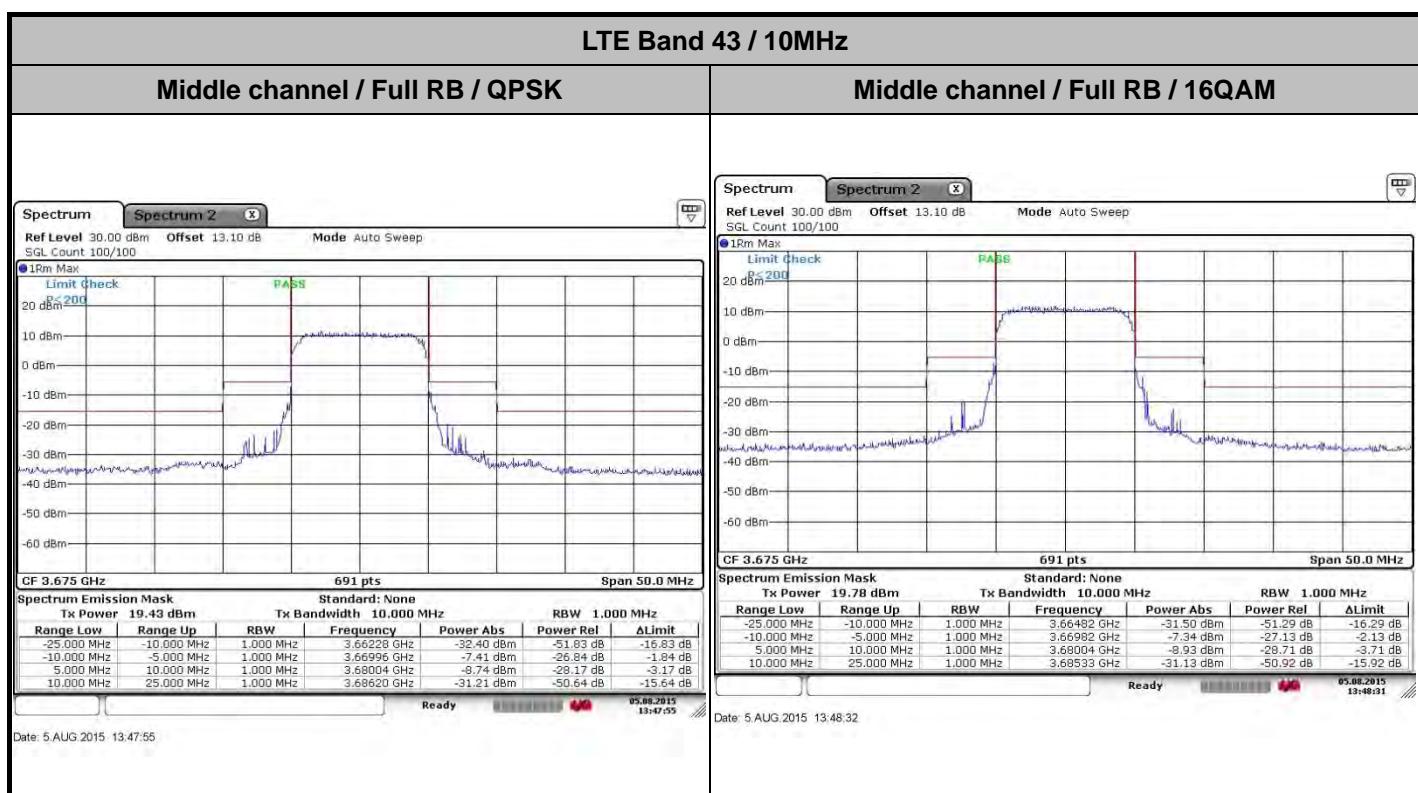
Date: 5 AUG 2015 14:21:42



LTE Band 43 / 10MHz

Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM

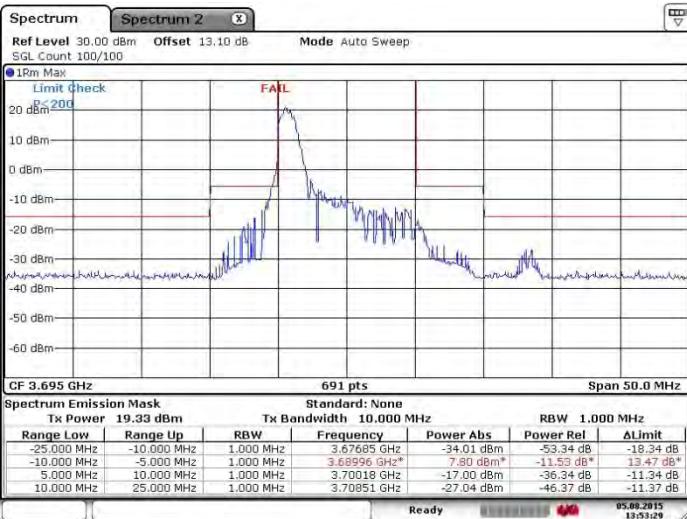




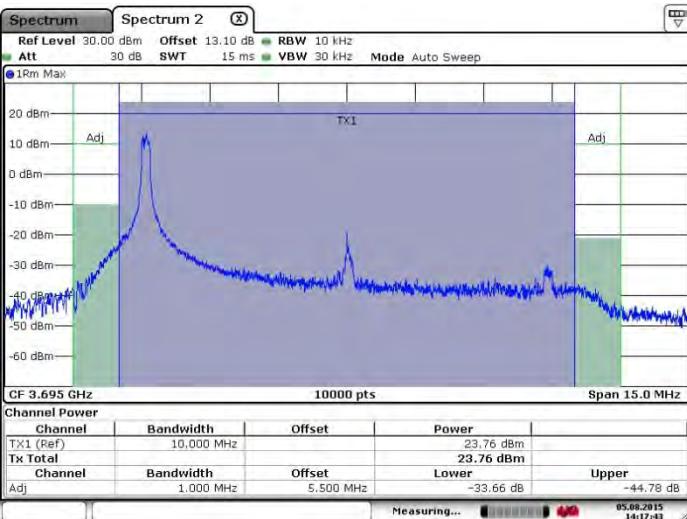
LTE Band 43 / 10MHz

High channel / 1 RB 0 / QPSK

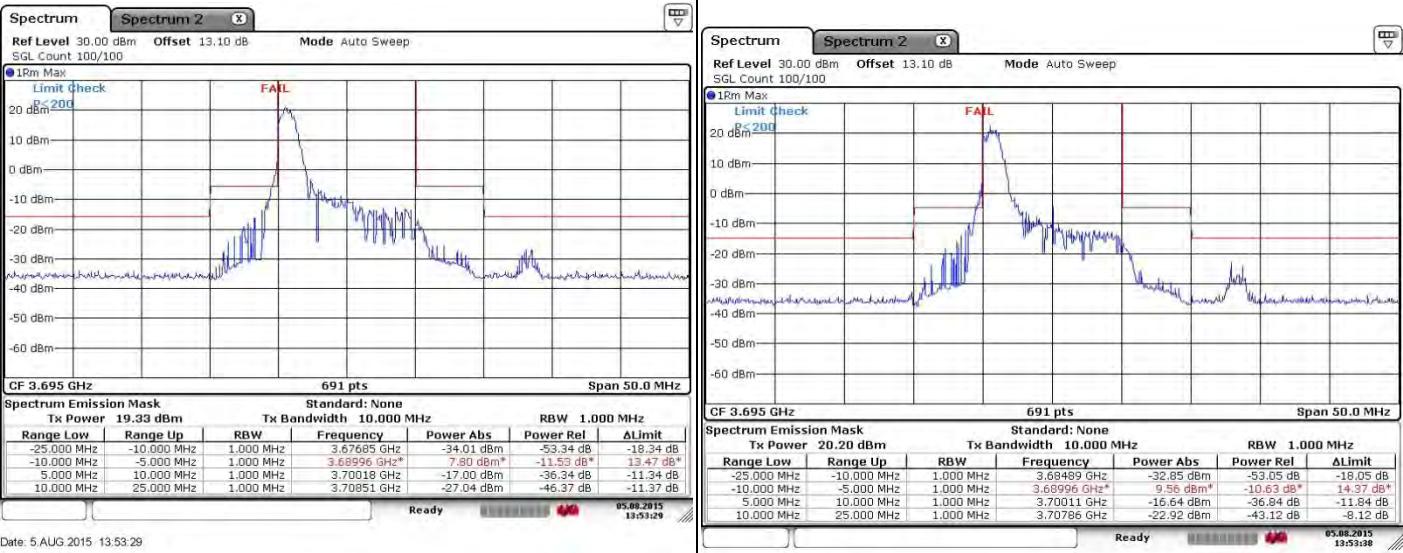
High channel / 1 RB 0 / 16QAM



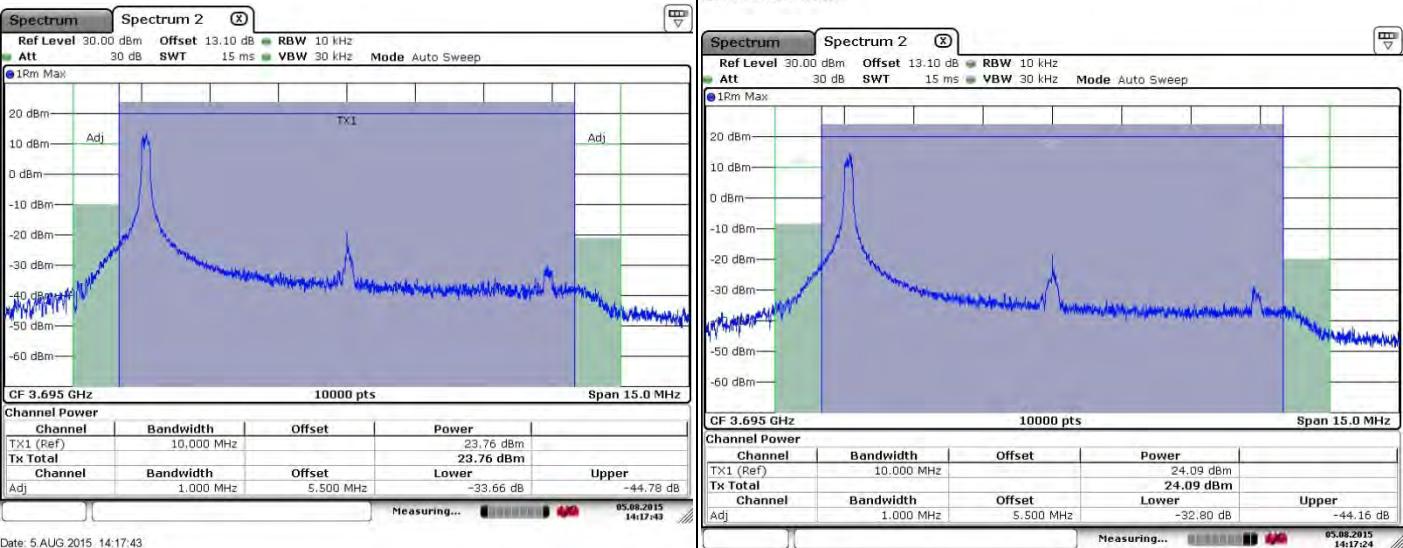
Date: 5 AUG 2015 13:53:29



Date: 5 AUG 2015 14:17:43



Date: 5 AUG 2015 13:53:38



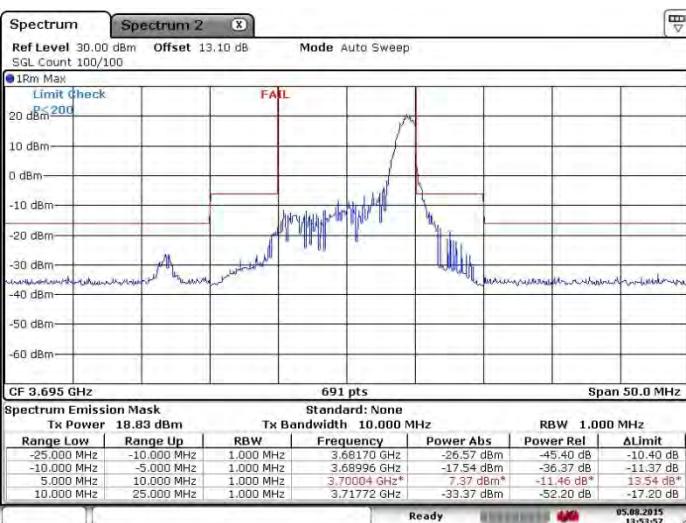
Date: 5 AUG 2015 14:17:24



LTE Band 43 / 10MHz

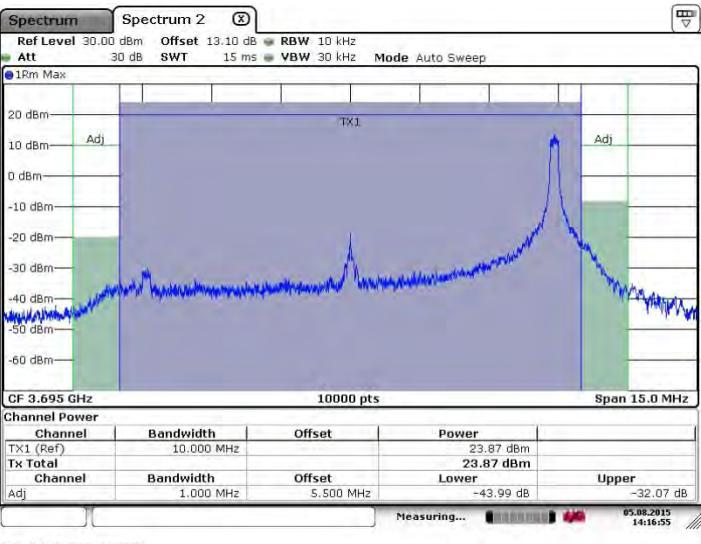
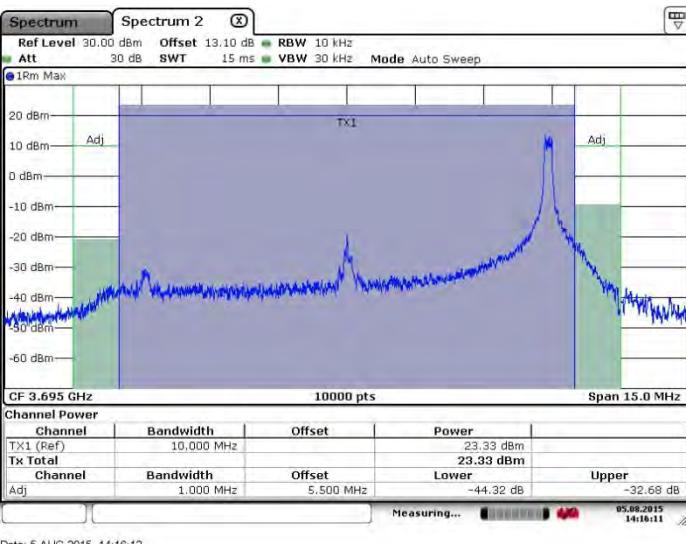
High channel / 1 RB Max / QPSK

High channel / 1 RB Max / 16QAM



Date: 5 AUG 2015 13:53:57

Date: 5 AUG 2015 13:53:47



Date: 5 AUG 2015 14:16:12

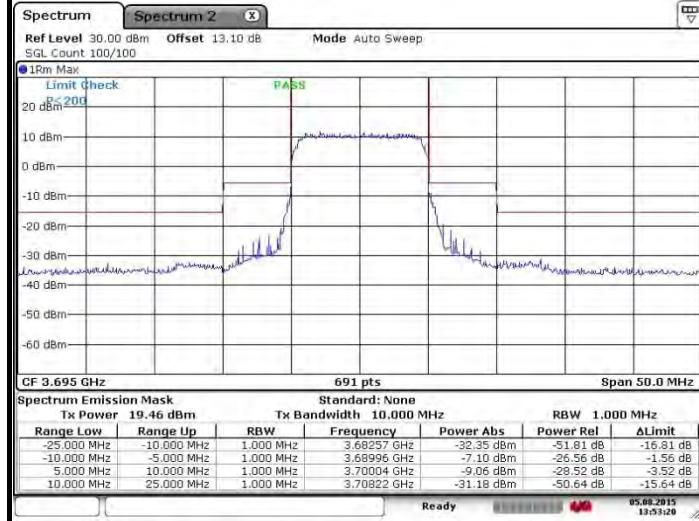
Date: 5 AUG 2015 14:16:56



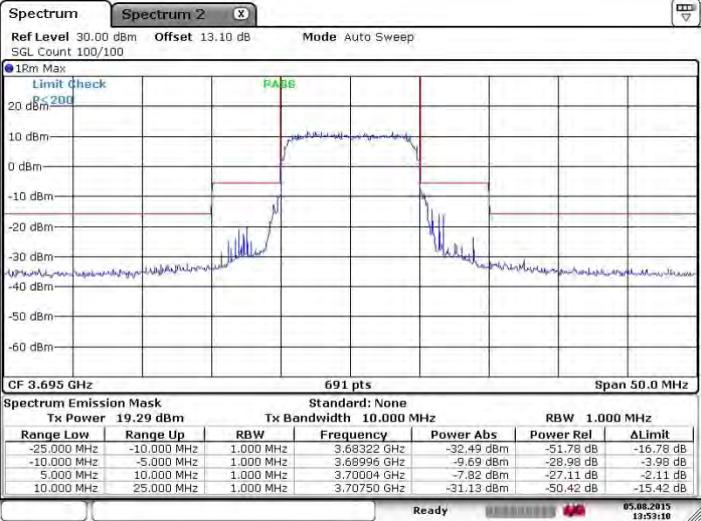
LTE Band 43 / 10MHz

High channel / Full RB / QPSK

High channel / Full RB / 16QAM



Date: 5 AUG 2015 13:53:20



Date: 5 AUG 2015 13:53:10



LTE Band 43 / 15MHz

Low channel / 1 RB 0 / QPSK

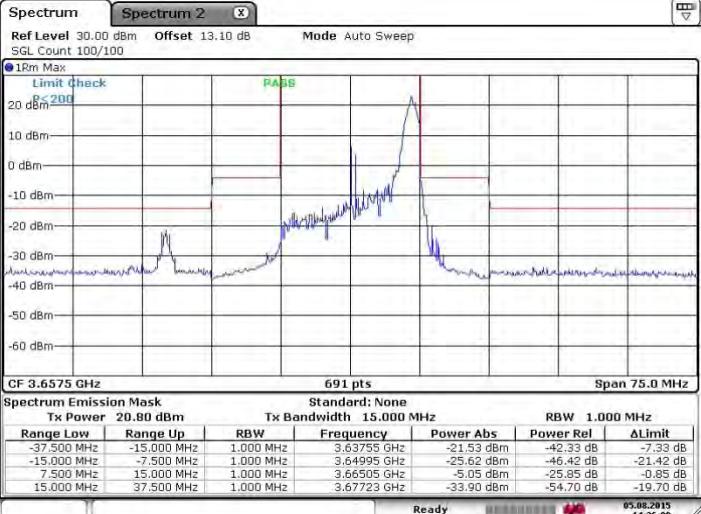
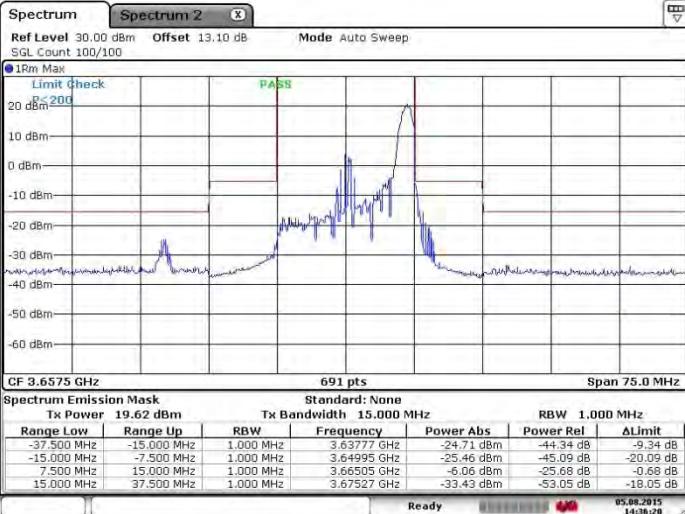
Low channel / 1 RB 0 / 16QAM



LTE Band 43 / 15MHz

Low channel / 1 RB Max / QPSK

Low channel / 1 RB Max / 16QAM

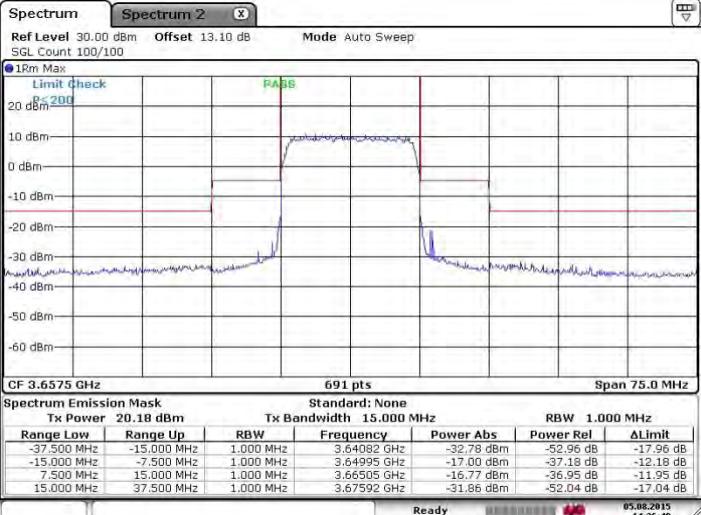
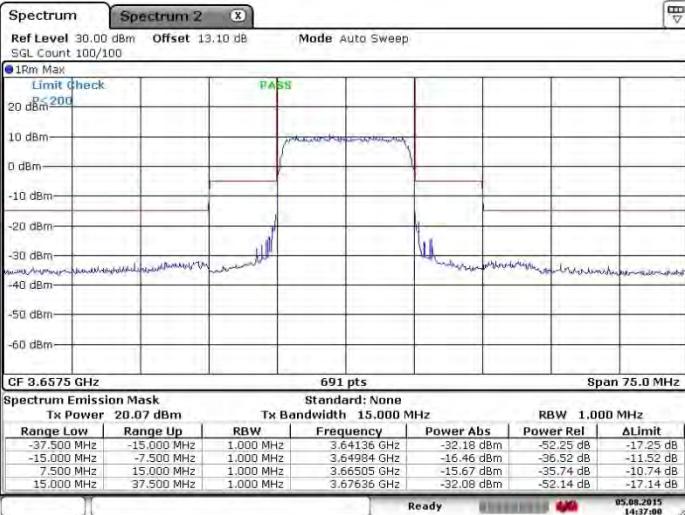




LTE Band 43 / 15MHz

Low channel / Full RB / QPSK

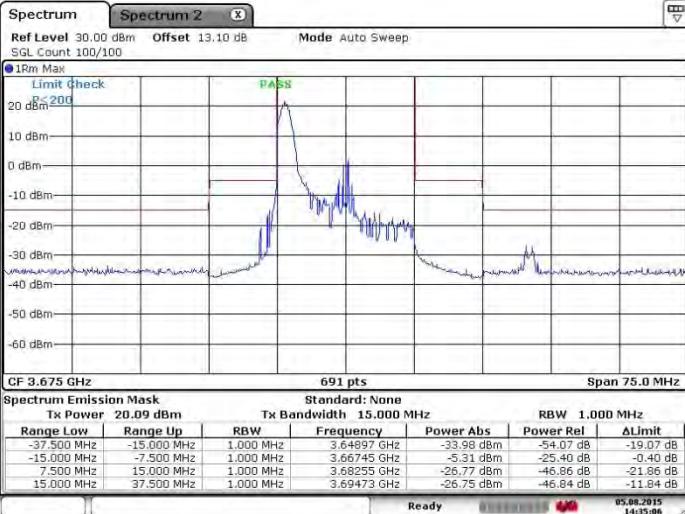
Low channel / Full RB / 16QAM



LTE Band 43 / 15MHz

Middle channel / 1 RB 0 / QPSK

Middle channel / 1 RB 0 / 16QAM

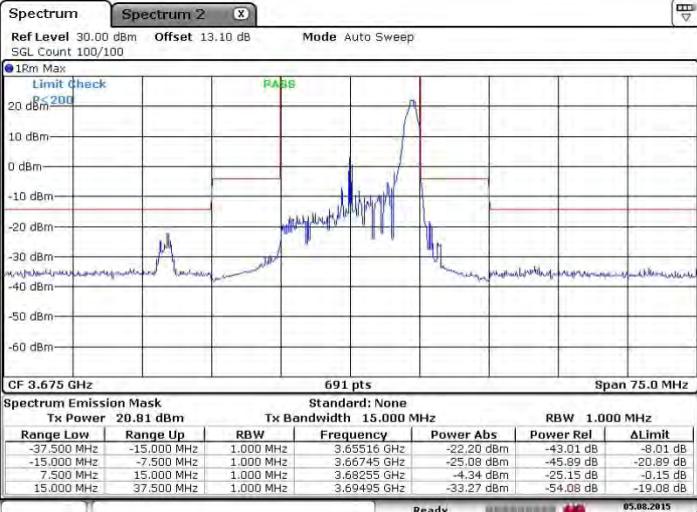
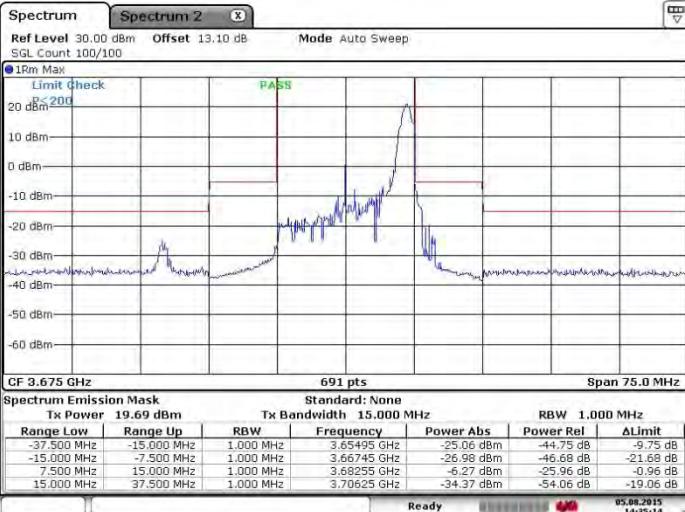




LTE Band 43 / 15MHz

Middle channel / 1 RB Max / QPSK

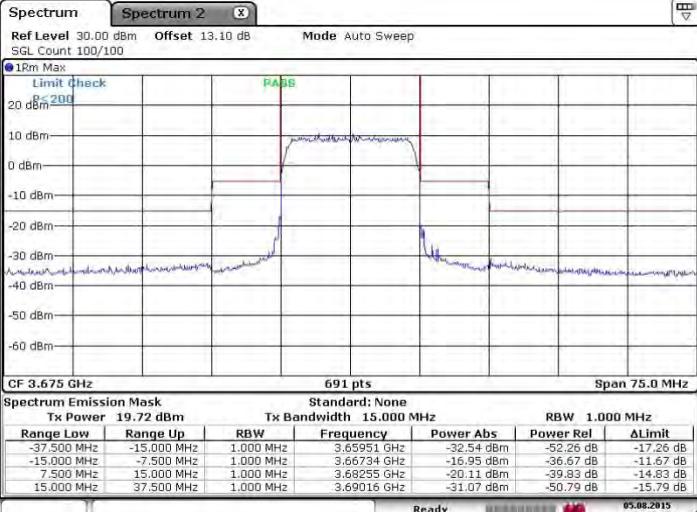
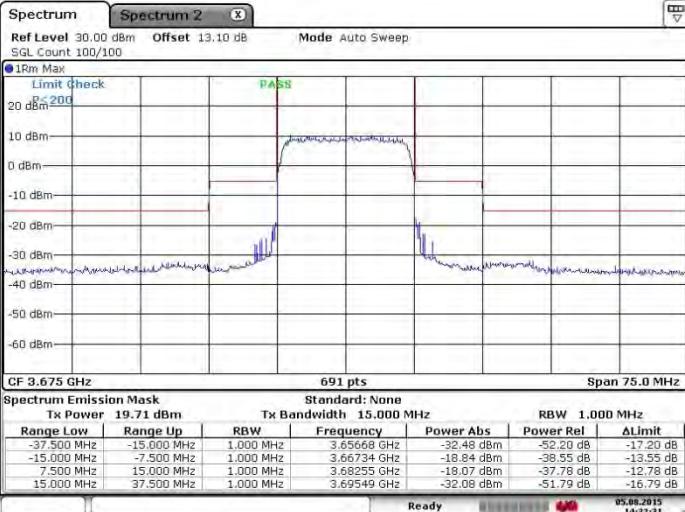
Middle channel / 1 RB Max / 16QAM



LTE Band 43 / 15MHz

Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM

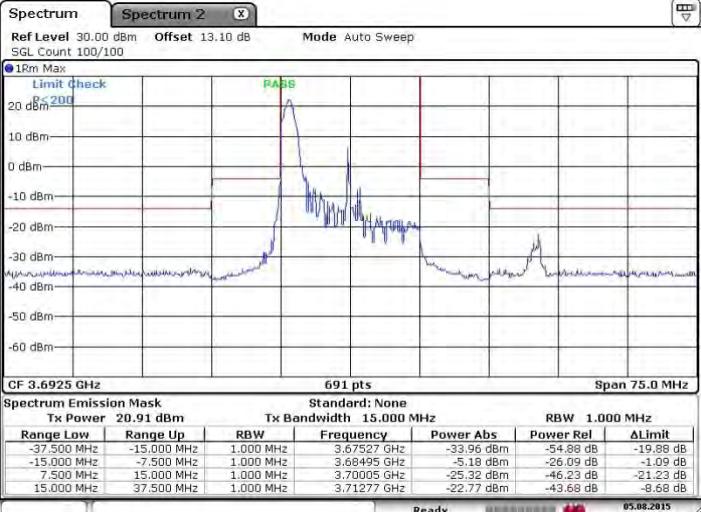




LTE Band 43 / 15MHz

High channel / 1 RB 0 / QPSK

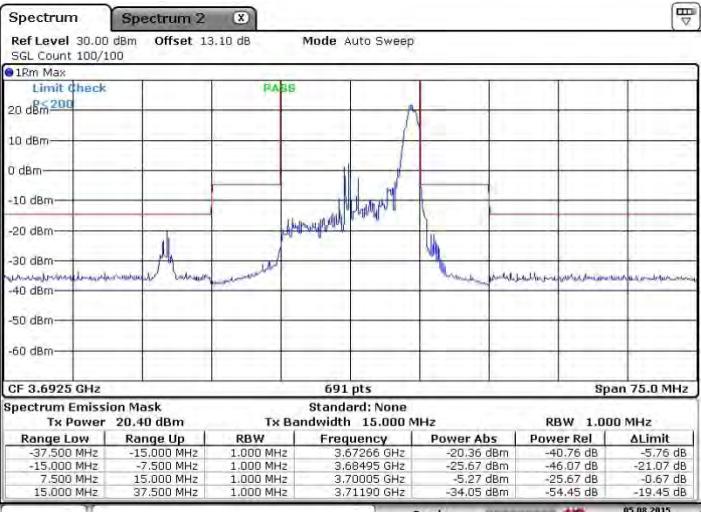
High channel / 1 RB 0 / 16QAM



LTE Band 43 / 15MHz

High channel / 1 RB Max / QPSK

High channel / 1 RB Max / 16QAM

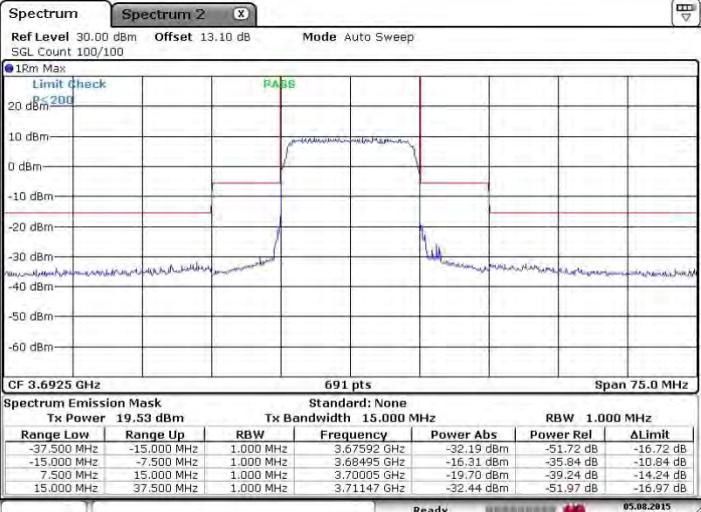
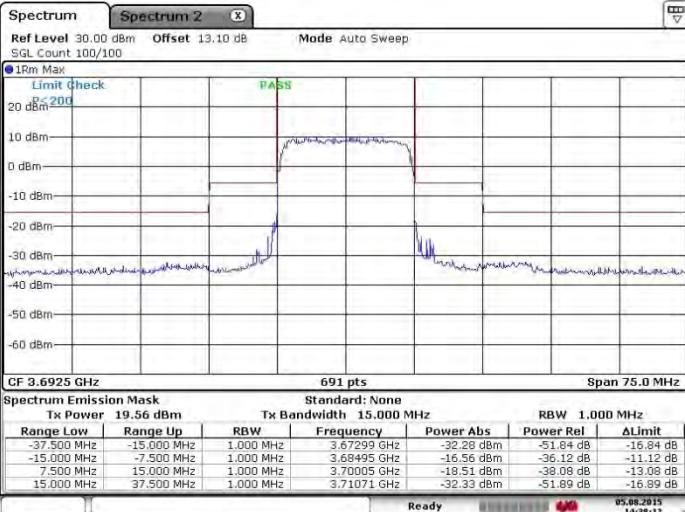




LTE Band 43 / 15MHz

High channel / Full RB / QPSK

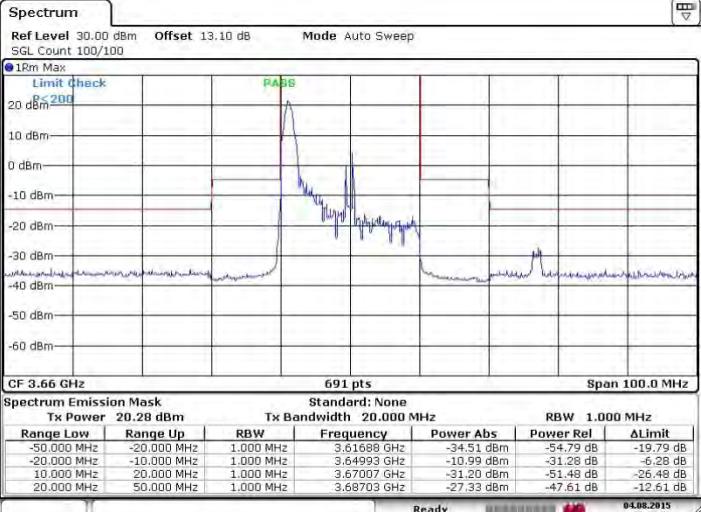
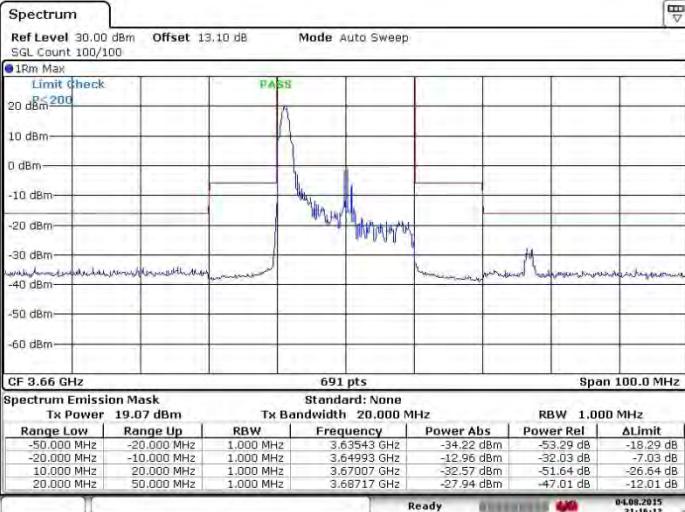
High channel / Full RB / 16QAM



LTE Band 43 / 20MHz

Low channel / 1 RB 0 / QPSK

Low channel / 1 RB 0 / 16QAM

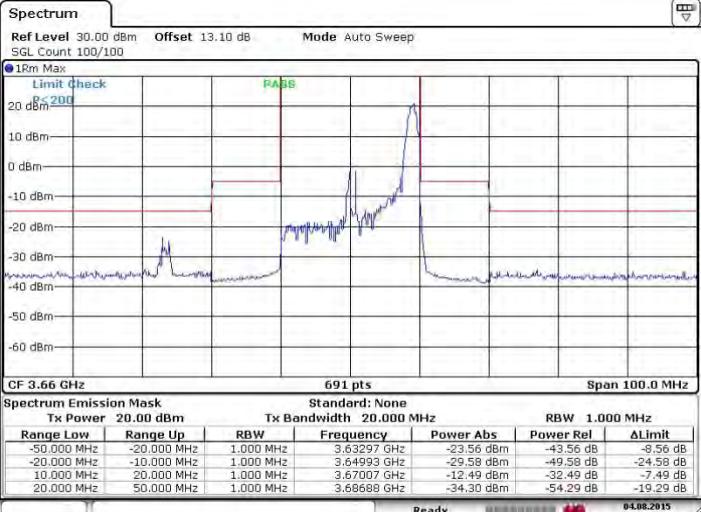
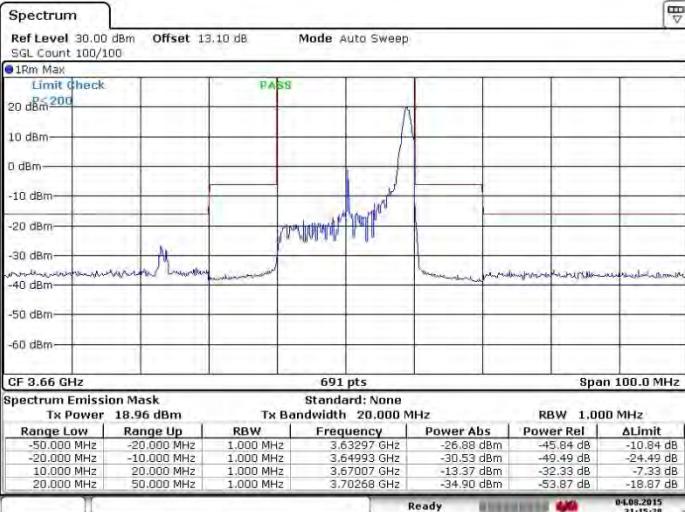




LTE Band 43 / 20MHz

Low channel / 1 RB Max / QPSK

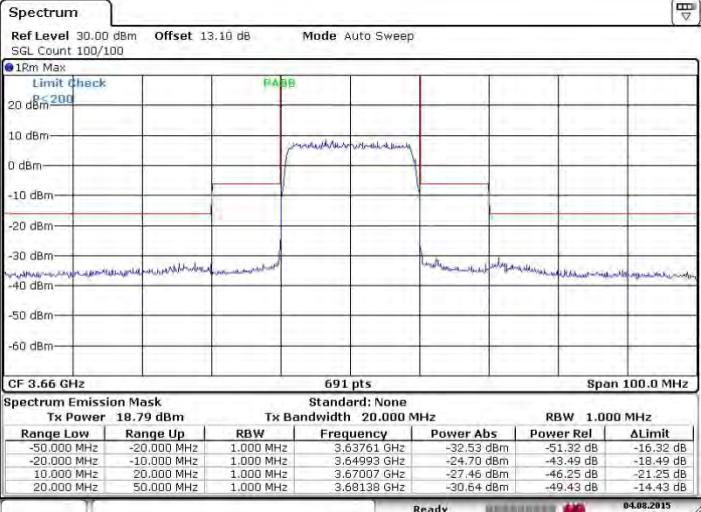
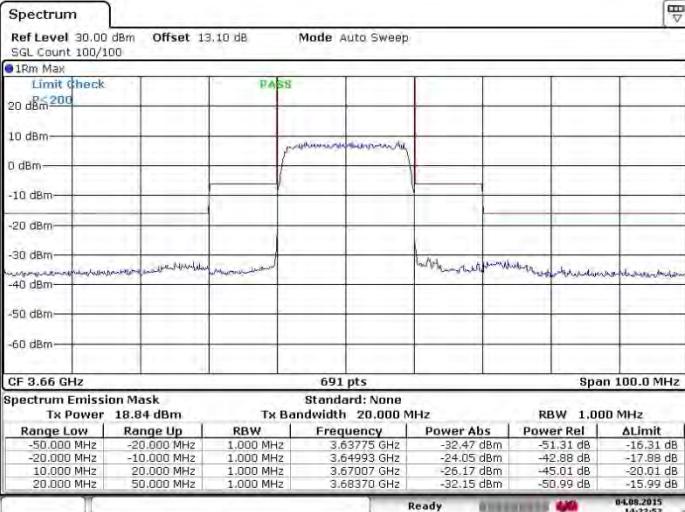
Low channel / 1 RB Max / 16QAM



LTE Band 43 / 20MHz

Low channel / Full RB / QPSK

Low channel / Full RB / 16QAM





LTE Band 43 / 20MHz

Middle channel / 1 RB 0 / QPSK

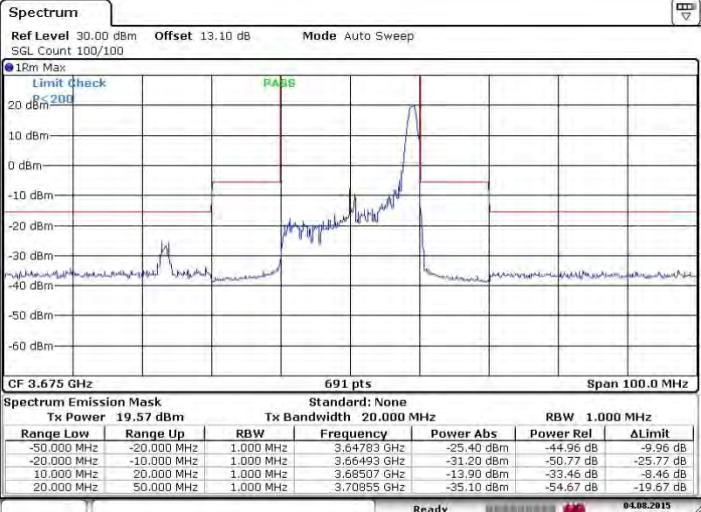
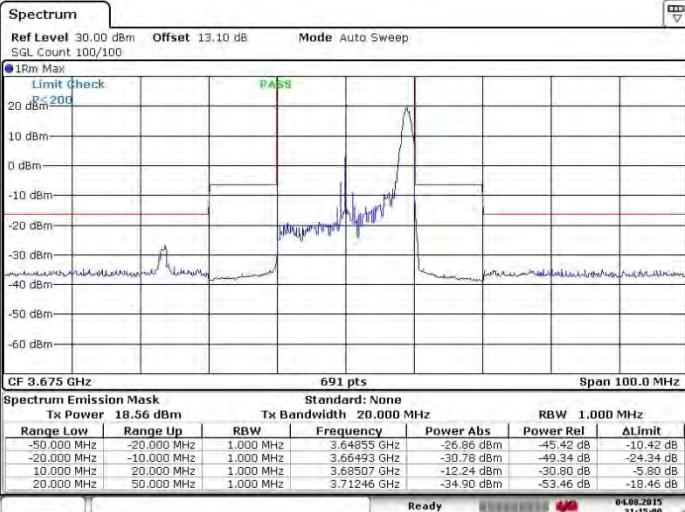
Middle channel / 1 RB 0 / 16QAM



LTE Band 43 / 20MHz

Middle channel / 1 RB Max / QPSK

Middle channel / 1 RB Max / 16QAM

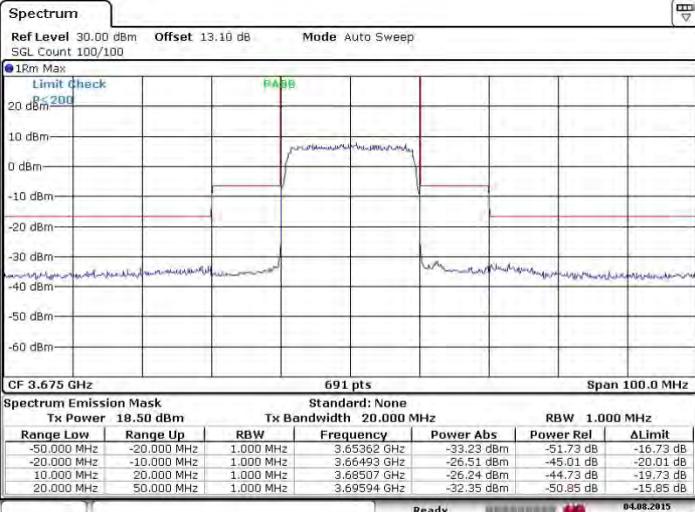
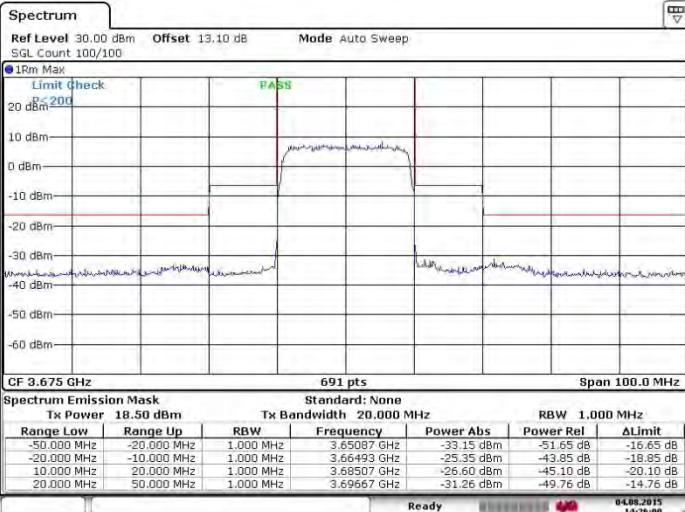




LTE Band 43 / 20MHz

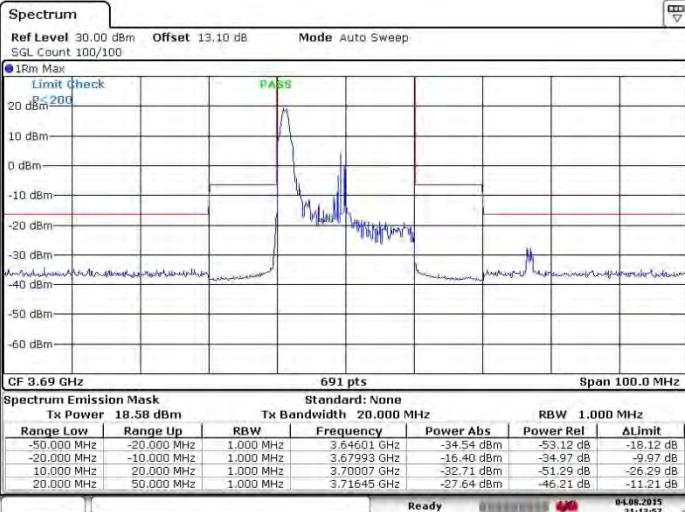
Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM



LTE Band 43 / 20MHz

High channel / 1 RB 0 / QPSK

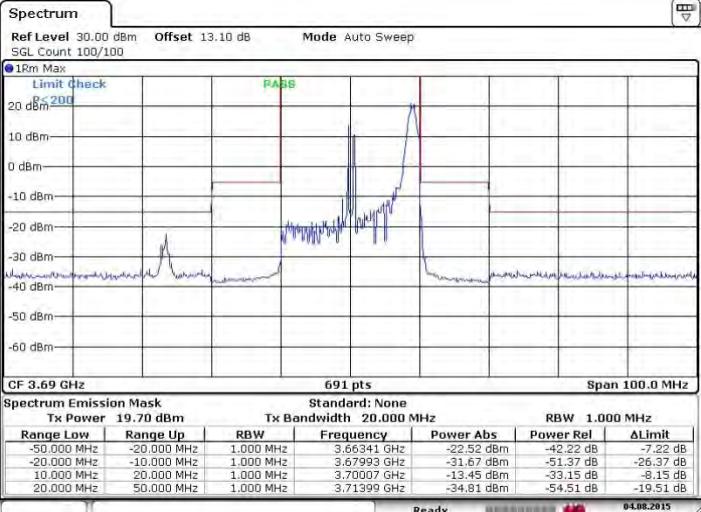
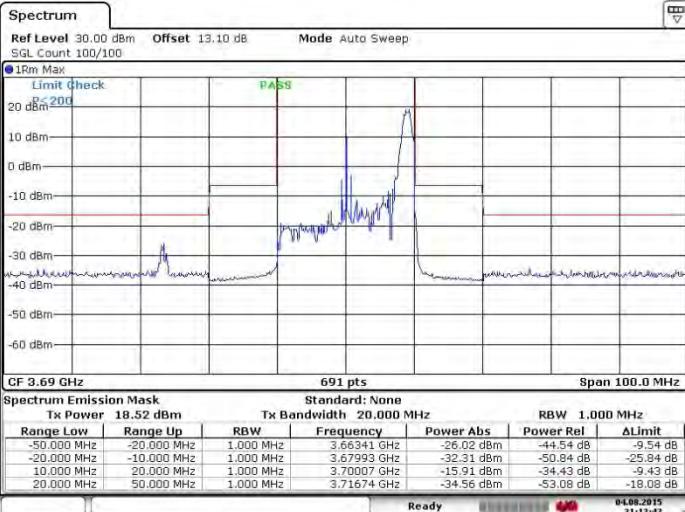




LTE Band 43 / 20MHz

High channel / 1 RB Max / QPSK

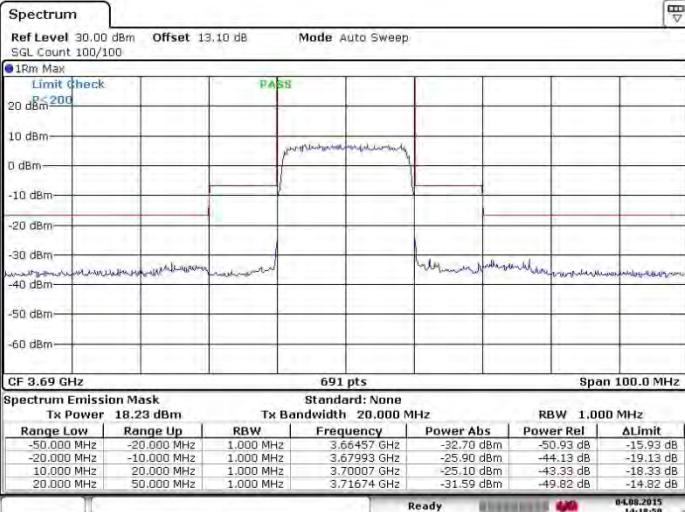
High channel / 1 RB Max / 16QAM



LTE Band 43 / 20MHz

High channel / Full RB / QPSK

High channel / Full RB / 16QAM



**Power Density**

| Mode | LTE Band 43 : Peak Conducted Power Density (dBm/MHz) | | | | | | | | | | | |
|------------|--|-------|---------|---------|------|-------|---------|---------|-------|-------|---------|---------|
| BW | 1.4MHz | | | | 3MHz | | | | 5MHz | | | |
| Mod. | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB |
| | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | - | - | - | - | 17.57 | 17.44 | 12.26 | 11.99 |
| Middle CH | - | - | - | - | - | - | - | - | 16.81 | 15.96 | 11.28 | 11.48 |
| Highest CH | - | - | - | - | - | - | - | - | 16.94 | 16.46 | 11.02 | 10.35 |

| Mode | LTE Band 43 : Peak Conducted Power Density (dBm/MHz) | | | | | | | | | | | |
|------------|--|-------|---------|---------|-------|-------|---------|---------|-------|-------|---------|---------|
| BW | 10MHz | | | | 15MHz | | | | 20MHz | | | |
| Mod. | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB |
| | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 17.37 | 16.87 | 9.32 | 9.49 | 16.72 | 16.55 | 7.59 | 6.93 | 16.91 | 17.24 | 6.51 | 6.38 |
| Middle CH | 16.93 | 17.48 | 9.05 | 9.28 | 17.32 | 16.57 | 7.05 | 6.23 | 17.12 | 16.95 | 6.06 | 5.63 |
| Highest CH | 16.90 | 16.56 | 9.82 | 8.67 | 17.01 | 16.73 | 6.50 | 6.70 | 17.19 | 16.34 | 4.65 | 6.83 |



| Mode | LTE Band 43 : Peak Conducted Power Density (dBm/MHz) | | | | | | | | | | | |
|--------------|--|-------|---------|---------|------|-------|---------|---------|-------|-------|---------|---------|
| BW | 1.4MHz | | | | 3MHz | | | | 5MHz | | | |
| Mod. | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB |
| | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | - | - | - | - | 29.57 | 29.44 | 24.26 | 23.99 |
| Middle CH | - | - | - | - | - | - | - | - | 28.81 | 27.96 | 23.28 | 23.48 |
| Highest CH | - | - | - | - | - | - | - | - | 28.94 | 28.46 | 23.02 | 22.35 |
| Antenna Gain | 12.00 dBi | | | | | | | | | | | |
| Limit | 1W / MHz = 30dBm / MHz | | | | | | | | | | | |
| Result | Pass | | | | | | | | | | | |

| Mode | LTE Band 43 : Peak Conducted Power Density (dBm/MHz) | | | | | | | | | | | |
|--------------|--|-------|---------|---------|-------|-------|---------|---------|-------|-------|---------|---------|
| BW | 10MHz | | | | 15MHz | | | | 20MHz | | | |
| Mod. | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB | 1 RB | 1 RB | Full RB | Full RB |
| | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 29.37 | 28.87 | 21.32 | 21.49 | 28.72 | 28.55 | 19.59 | 18.93 | 28.91 | 29.24 | 18.51 | 18.38 |
| Middle CH | 28.93 | 29.48 | 21.05 | 21.28 | 29.32 | 28.57 | 19.05 | 18.23 | 29.12 | 28.95 | 18.06 | 17.63 |
| Highest CH | 28.90 | 28.56 | 21.82 | 20.67 | 29.01 | 28.73 | 18.50 | 18.70 | 29.19 | 28.34 | 16.65 | 18.83 |
| Antenna Gain | 12.00 dBi | | | | | | | | | | | |
| Limit | 1W / MHz = 30dBm / MHz | | | | | | | | | | | |
| Result | Pass | | | | | | | | | | | |

Peak EIRP Density (dBm/MHz) = Peak Conducted Power Density (dBm/MHz) + Antenna Gain



LTE Band 43 / 5MHz

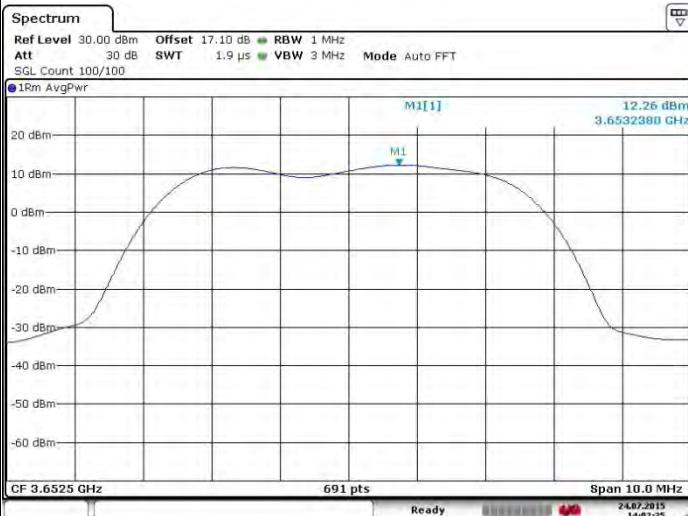
Low channel / 1 RB / QPSK



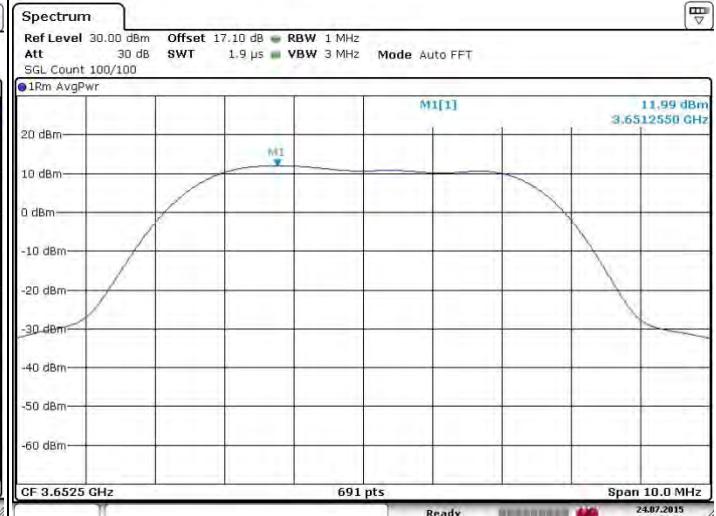
Low channel / 1 RB / 16QAM



Low channel / Full RB / QPSK



Low channel / Full RB / 16QAM





LTE Band 43 / 5MHz

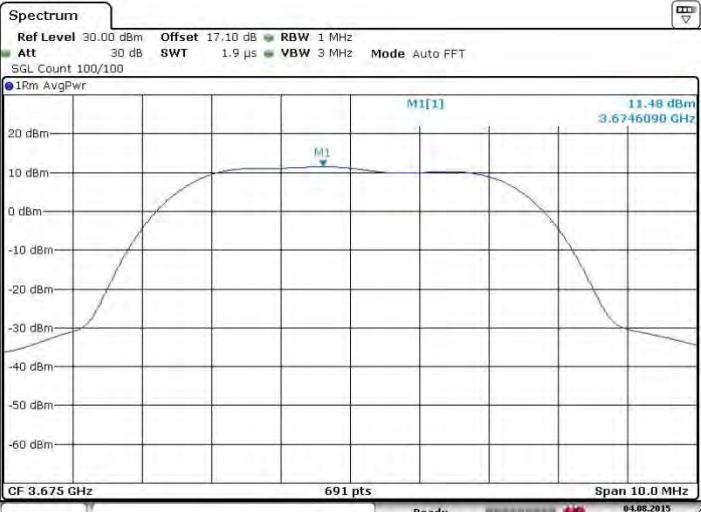
Middle channel / 1 RB / QPSK

Middle channel / 1 RB / 16QAM



Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM





LTE Band 43 / 5MHz

High channel / 1 RB / QPSK

High channel / 1 RB / 16QAM



High channel / Full RB / QPSK

High channel / Full RB / 16QAM

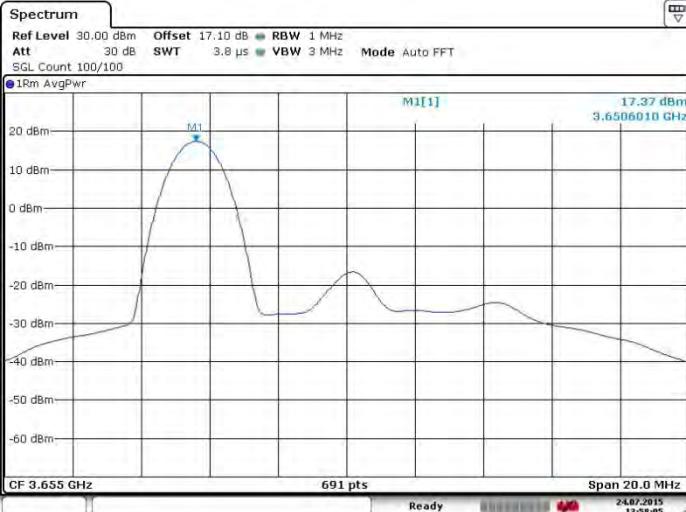




LTE Band 43 / 10MHz

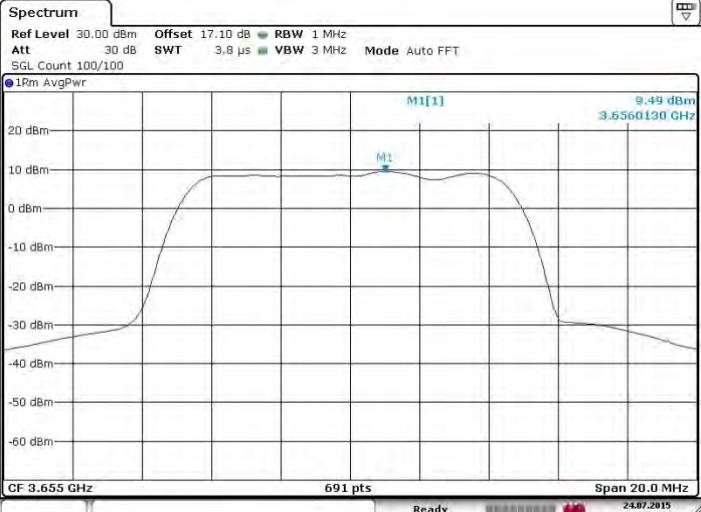
Low channel / 1 RB / QPSK

Low channel / 1 RB / 16QAM



Low channel / Full RB / QPSK

Low channel / Full RB / 16QAM

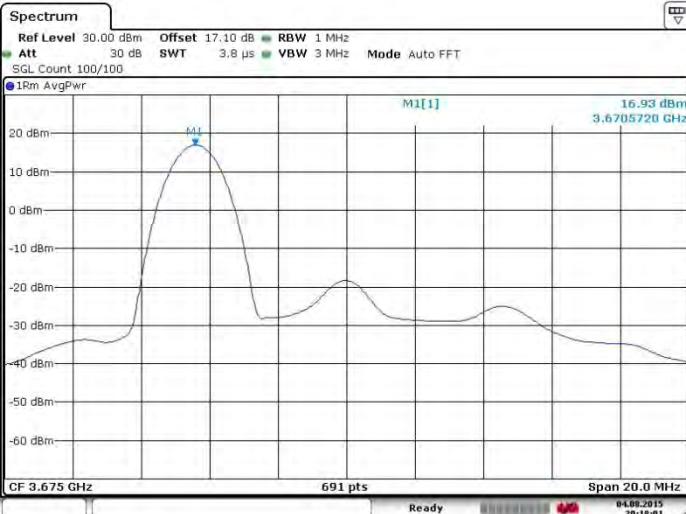




LTE Band 43 / 10MHz

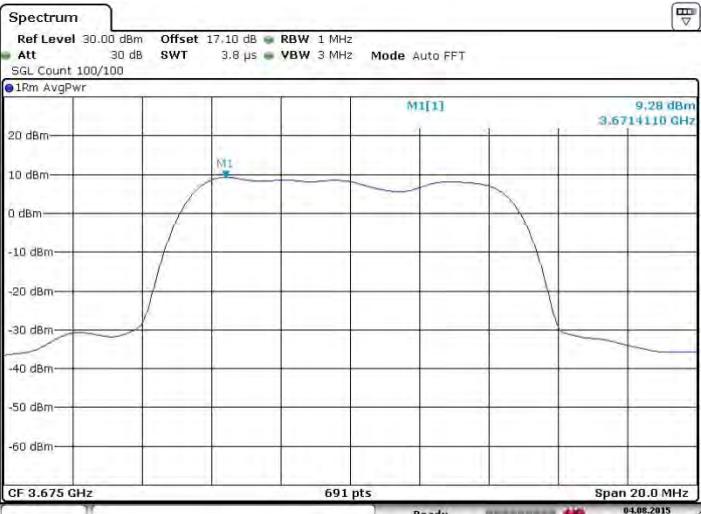
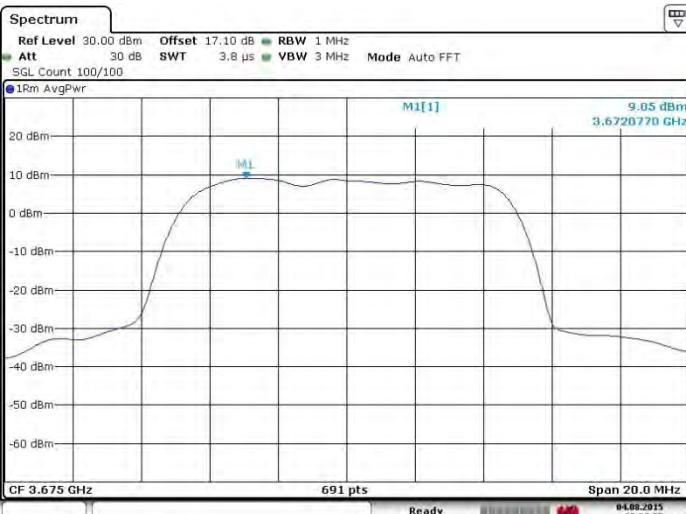
Middle channel / 1 RB / QPSK

Middle channel / 1 RB / 16QAM



Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM





LTE Band 43 / 10MHz

High channel / 1 RB / QPSK

High channel / 1 RB / 16QAM



High channel / Full RB / QPSK

High channel / Full RB / 16QAM

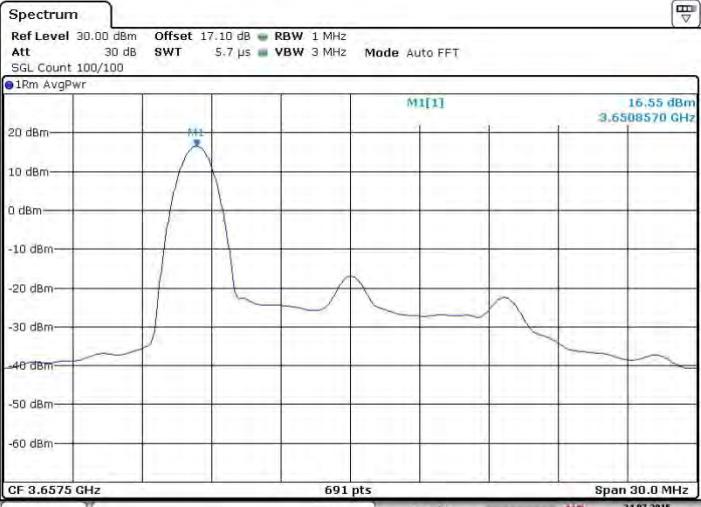




LTE Band 43 / 15MHz

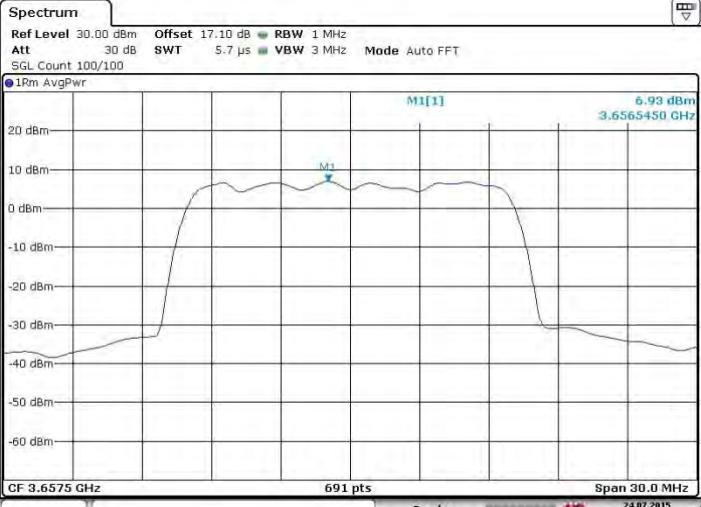
Low channel / 1 RB / QPSK

Low channel / 1 RB / 16QAM



Low channel / Full RB / QPSK

Low channel / Full RB / 16QAM

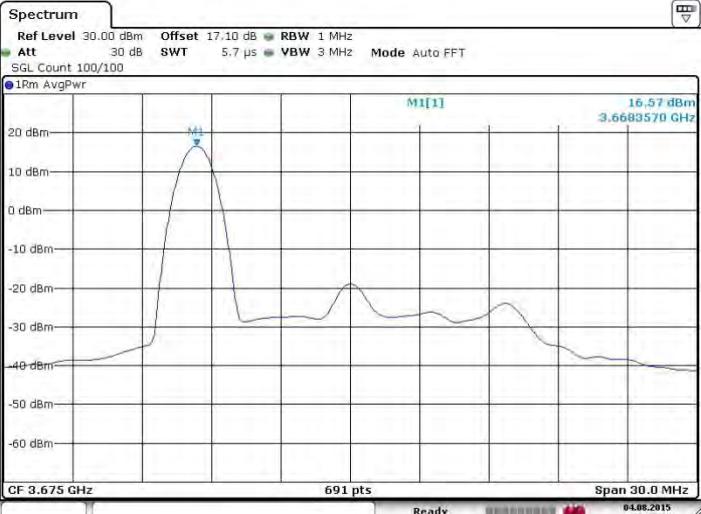
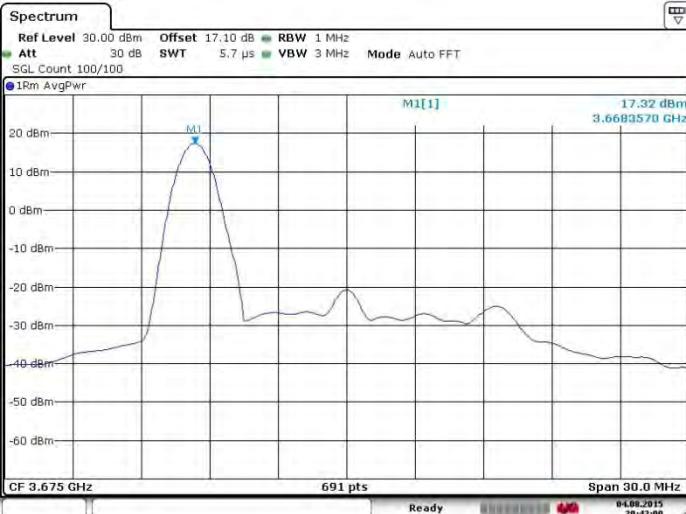




LTE Band 43 / 15MHz

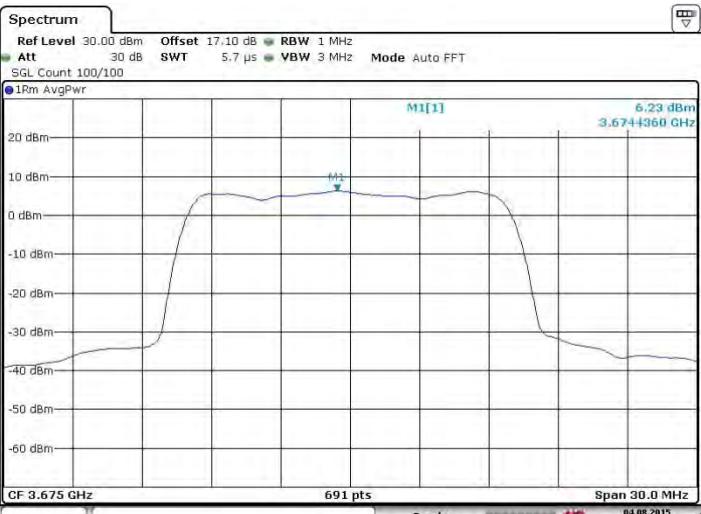
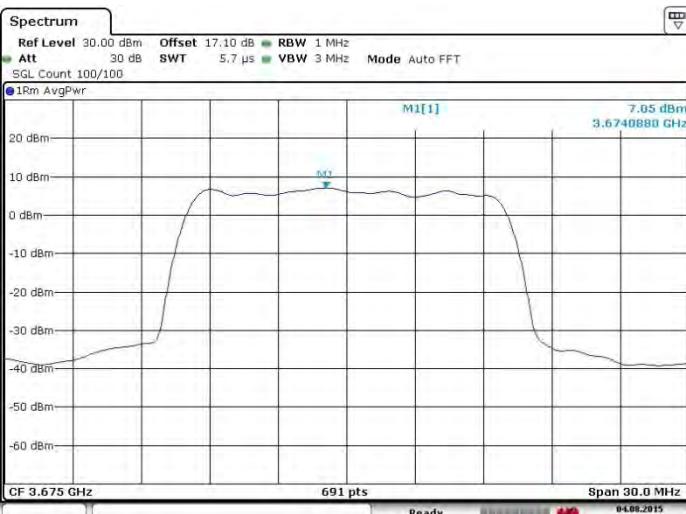
Middle channel / 1 RB / QPSK

Middle channel / 1 RB / 16QAM



Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM

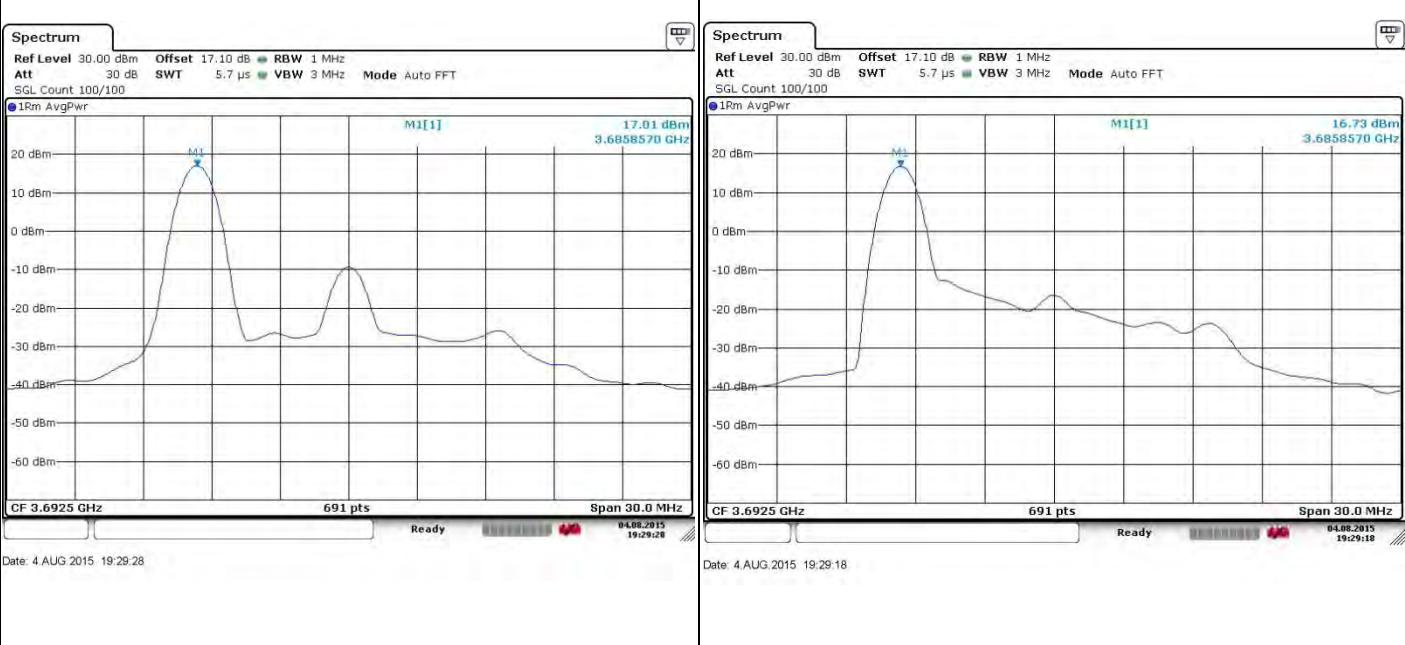




LTE Band 43 / 15MHz

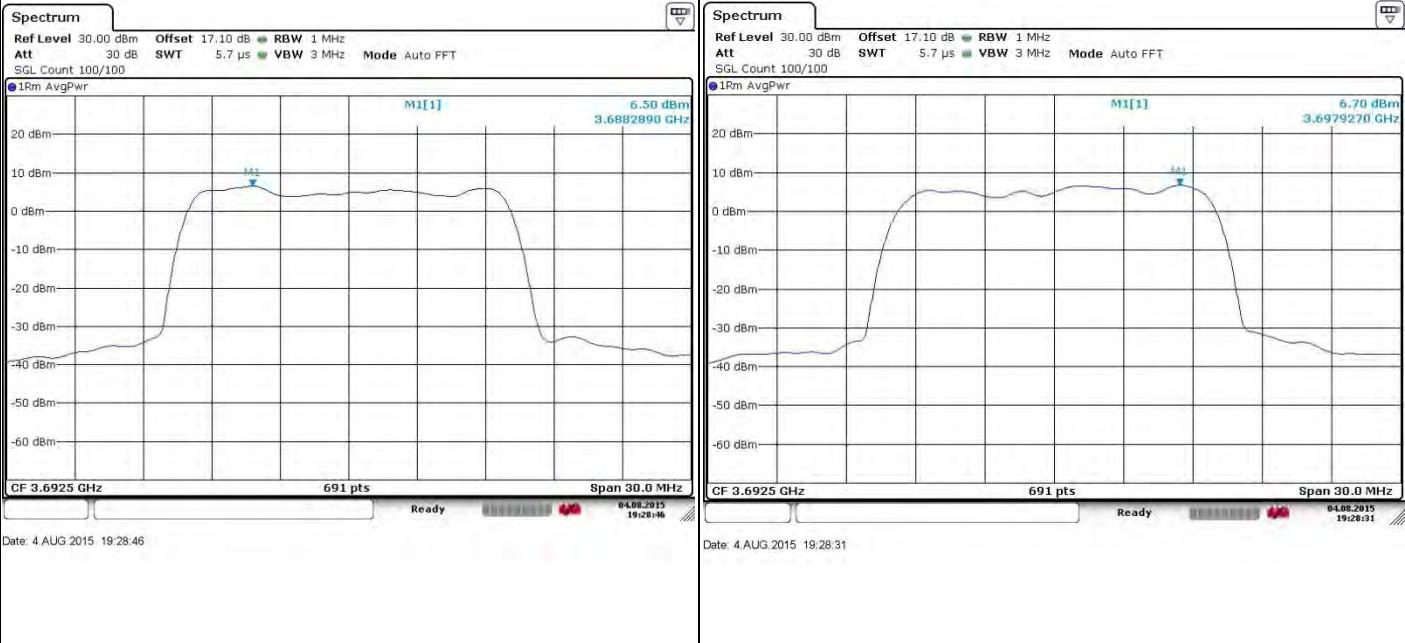
High channel / 1 RB / QPSK

High channel / 1 RB / 16QAM



High channel / Full RB / QPSK

High channel / Full RB / 16QAM





LTE Band 43 / 20MHz

Low channel / 1 RB / QPSK

Low channel / 1 RB / 16QAM



Low channel / Full RB / QPSK

Low channel / Full RB / 16QAM

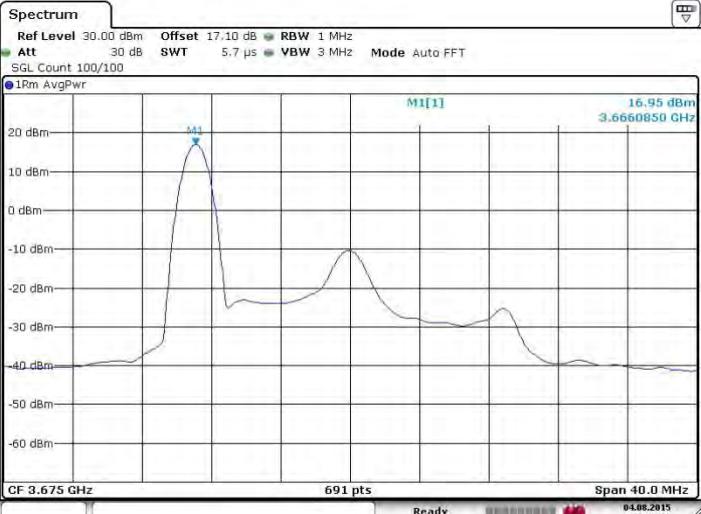
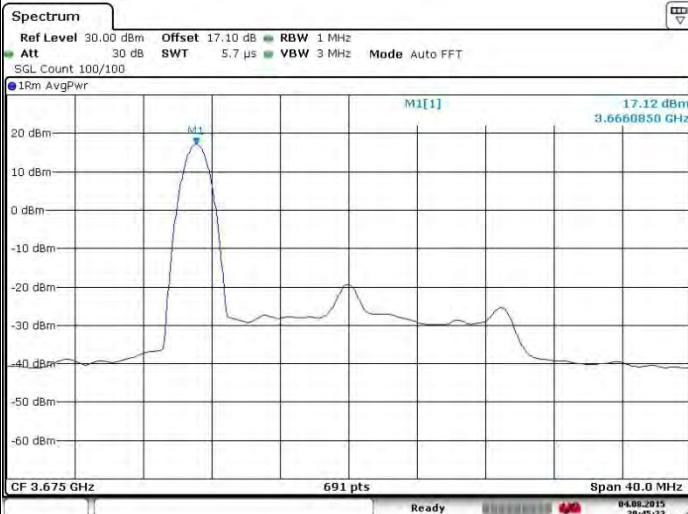




LTE Band 43 / 20MHz

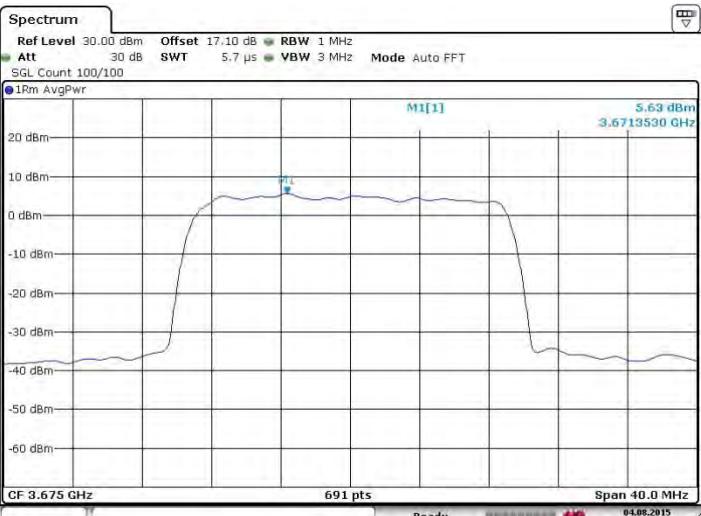
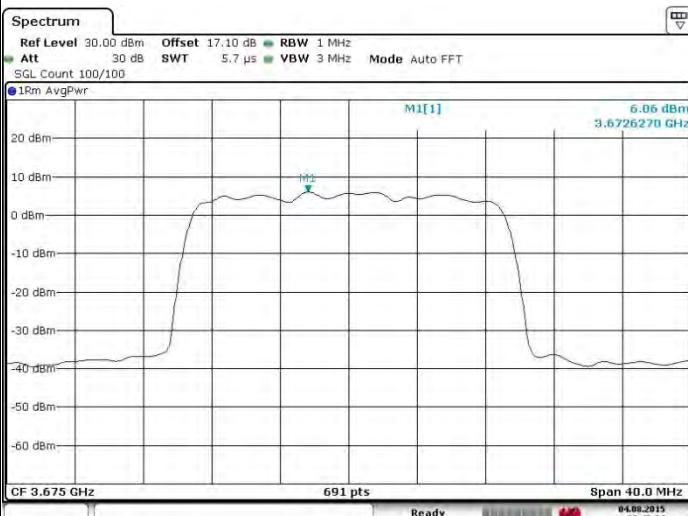
Middle channel / 1 RB / QPSK

Middle channel / 1 RB / 16QAM



Middle channel / Full RB / QPSK

Middle channel / Full RB / 16QAM





LTE Band 43 / 20MHz

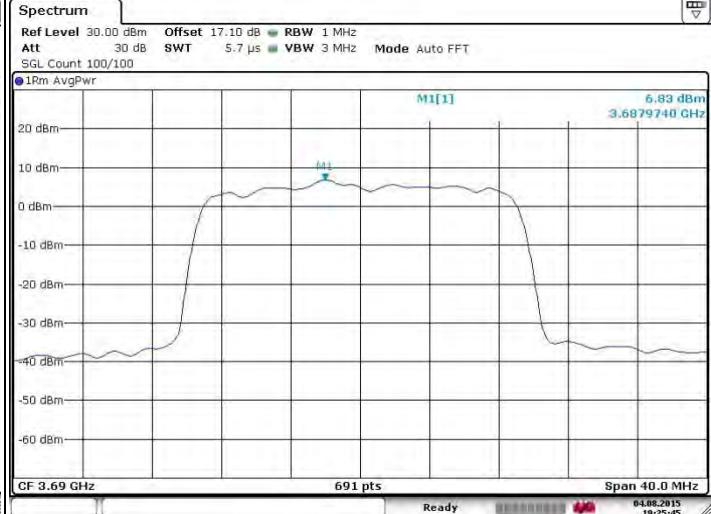
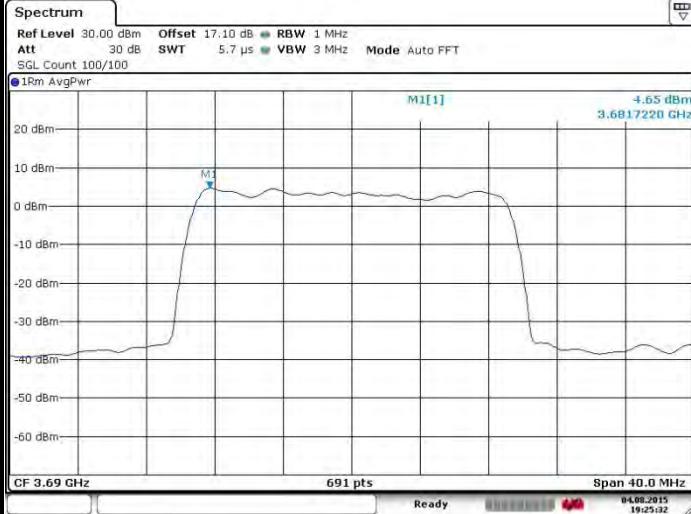
High channel / 1 RB / QPSK

High channel / 1 RB / 16QAM



High channel / Full RB / QPSK

High channel / Full RB / 16QAM



**Frequency Stability**

| Test Conditions | | LTE Band 43 (QPSK) / Middle Channel | Limit |
|---------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0005 | PASS |
| 40 | Normal Voltage | 0.0006 | |
| 30 | Normal Voltage | 0.0071 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0008 | |
| 0 | Normal Voltage | 0.0001 | |
| -10 | Normal Voltage | 0.0012 | |
| -20 | Normal Voltage | 0.0007 | |
| -30 | Normal Voltage | 0.0059 | |
| 20 | Maximum Voltage | 0.0016 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0003 | |

Note:

1. Normal Voltage = 100~240V. ; Battery End Point (BEP) = 90 V. ; Maximum Voltage =264 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.