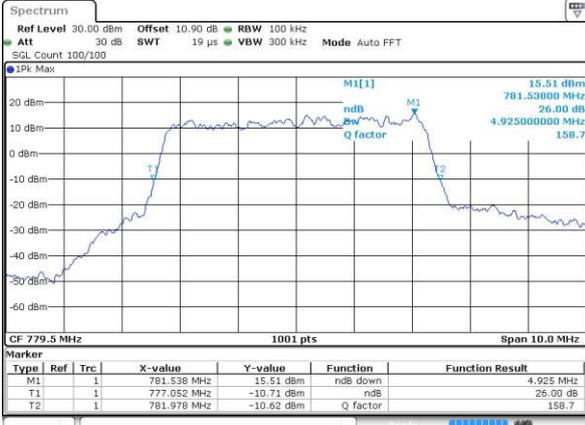




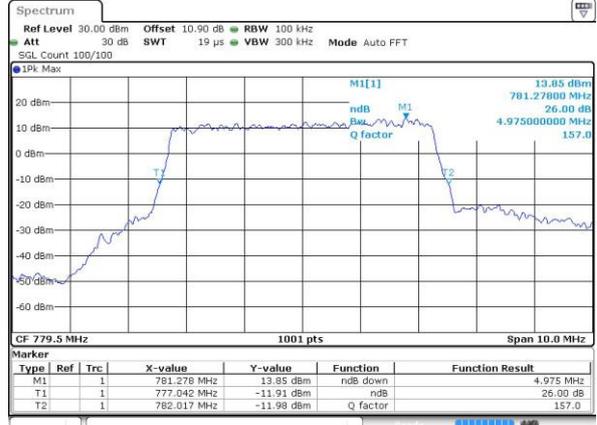
LTE Band 13

Lowest Channel / 5MHz / QPSK



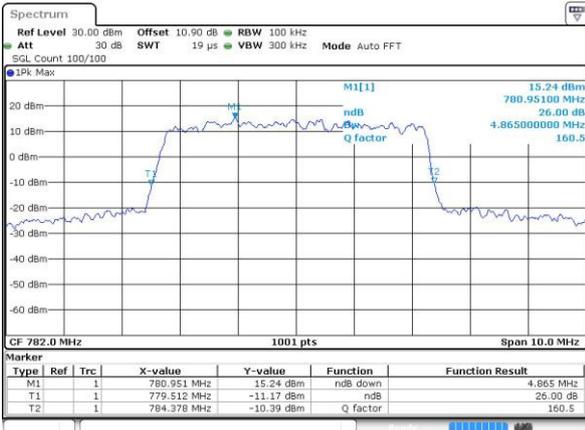
Date: 26 MAR 2016 15:05:09

Lowest Channel / 5MHz / 16QAM



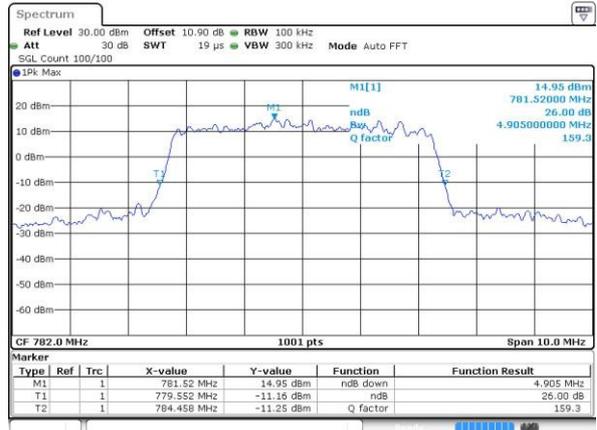
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Middle Channel / 5MHz / QPSK



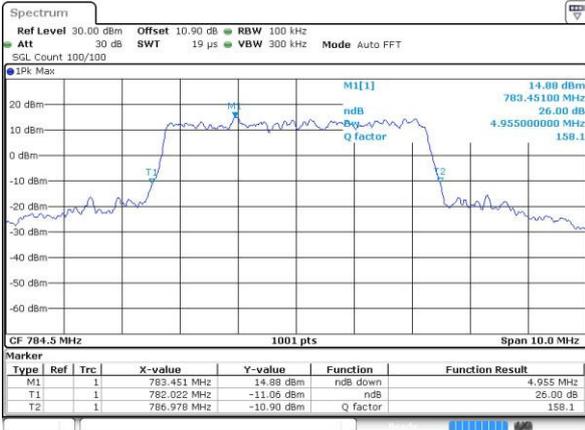
Date: 26 MAR 2016 15:08:56

Middle Channel / 5MHz / 16QAM



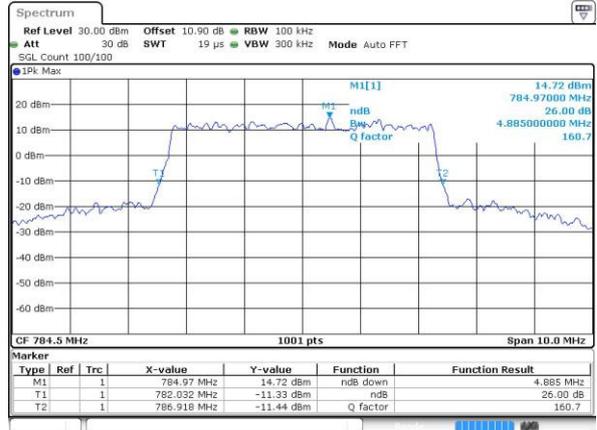
Date: 26 MAR 2016 15:09:06

Highest Channel / 5MHz / QPSK



Date: 26 MAR 2016 15:10:09

Highest Channel / 5MHz / 16QAM

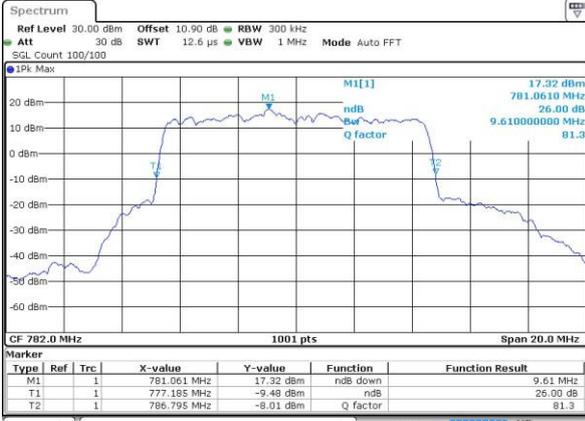


Date: 26 MAR 2016 15:09:59



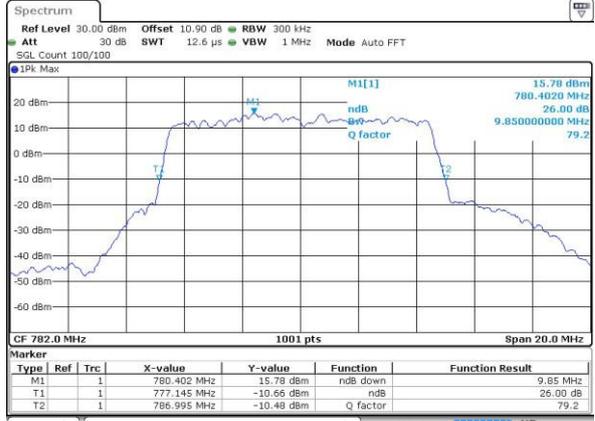
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 26 MAR 2016 15:12:40

Middle Channel / 10MHz / 16QAM



Date: 26 MAR 2016 15:12:29



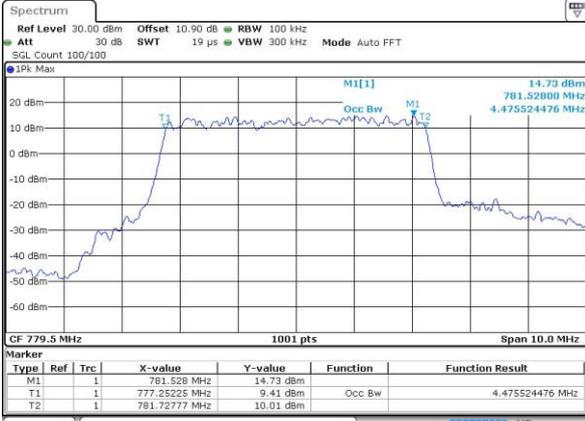
Occupied Bandwidth

| Mode | LTE Band 13 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.48 | 4.49 | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.47 | 4.47 | 9.03 | 9.03 | - | - | - | - |
| Highest CH | - | - | - | - | 4.49 | 4.49 | - | - | - | - | - | - |



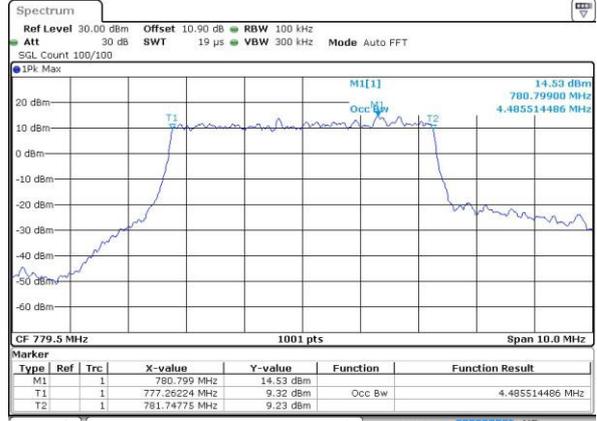
LTE Band 13

Lowest Channel / 5MHz / QPSK



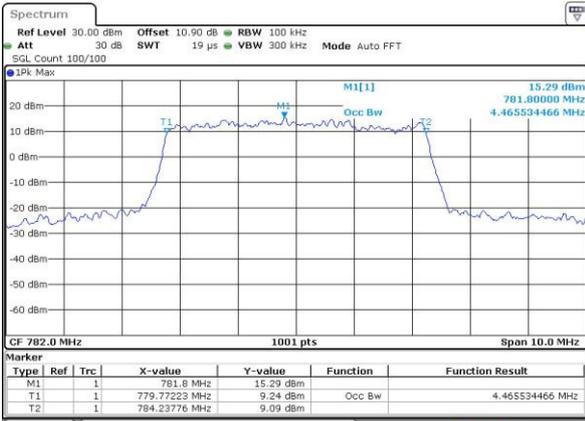
Date: 26 MAR 2016 15:04:37

Lowest Channel / 5MHz / 16QAM



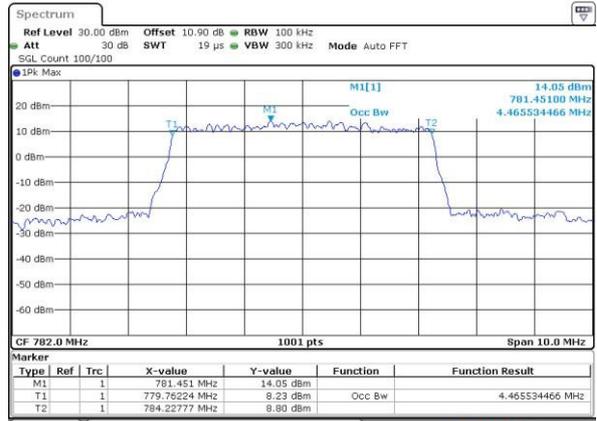
Date: 26 MAR 2016 15:04:48

Middle Channel / 5MHz / QPSK



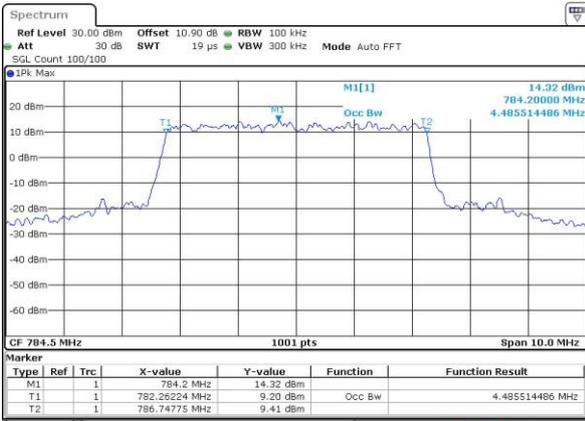
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Middle Channel / 5MHz / 16QAM



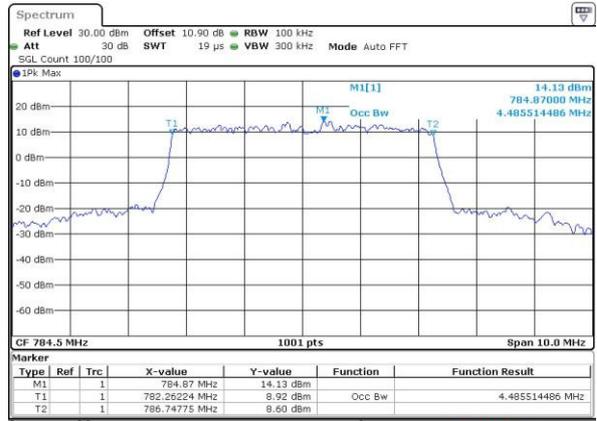
Date: 26 MAR 2016 15:09:17

Highest Channel / 5MHz / QPSK



Date: 26 MAR 2016 15:09:38

Highest Channel / 5MHz / 16QAM

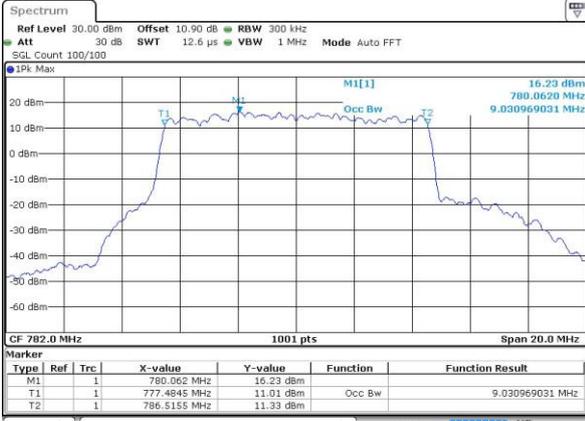


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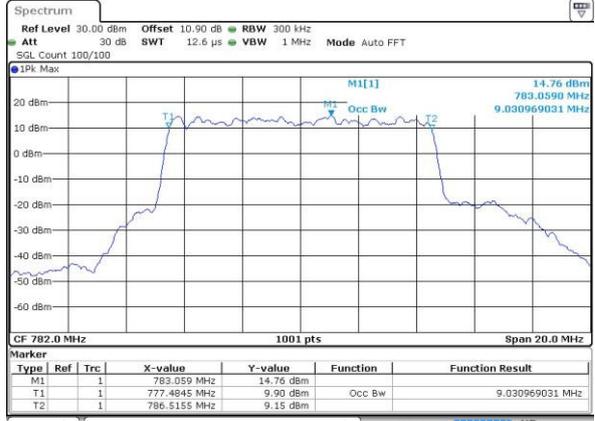
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 26 MAR 2016 15:12:08

Middle Channel / 10MHz / 16QAM



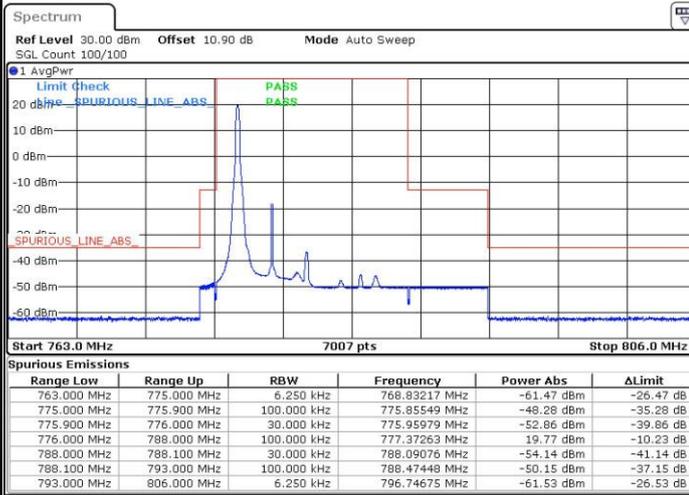
Date: 26 MAR 2016 15:12:19



Conducted Band Edge

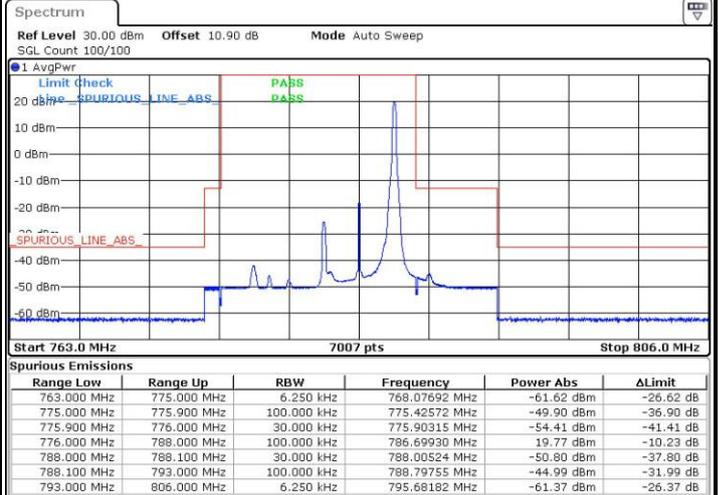
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



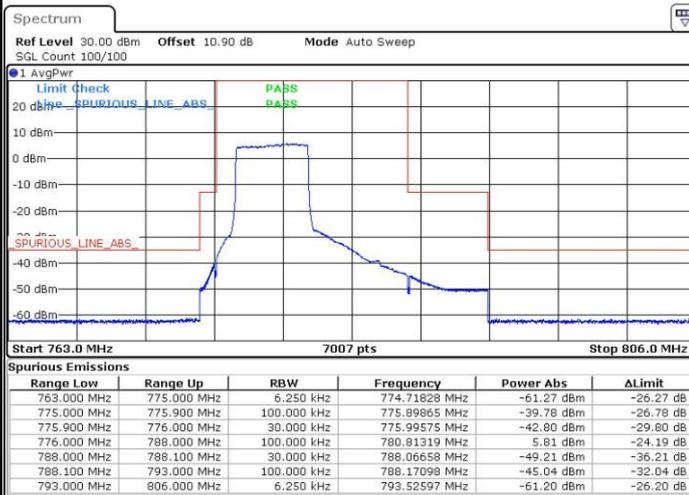
Date: 26 MAR 2016 15:33:25

Highest Band Edge / 1 RB



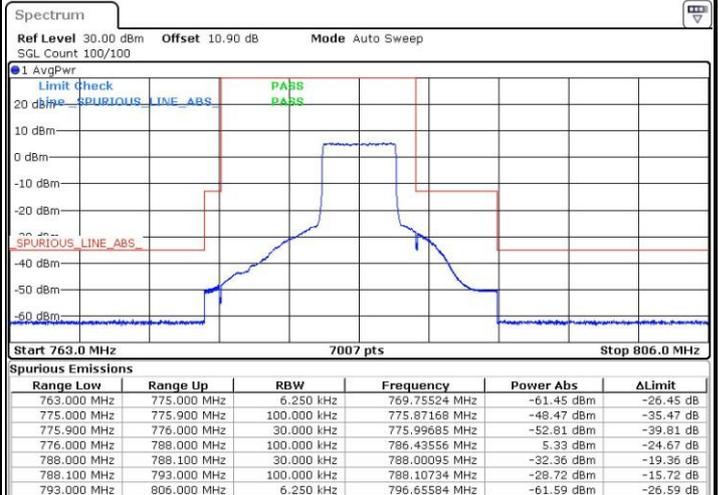
Date: 26 MAR 2016 15:38:03

Lowest Band Edge / Full RB



Date: 26 MAR 2016 15:29:57

Highest Band Edge / Full RB



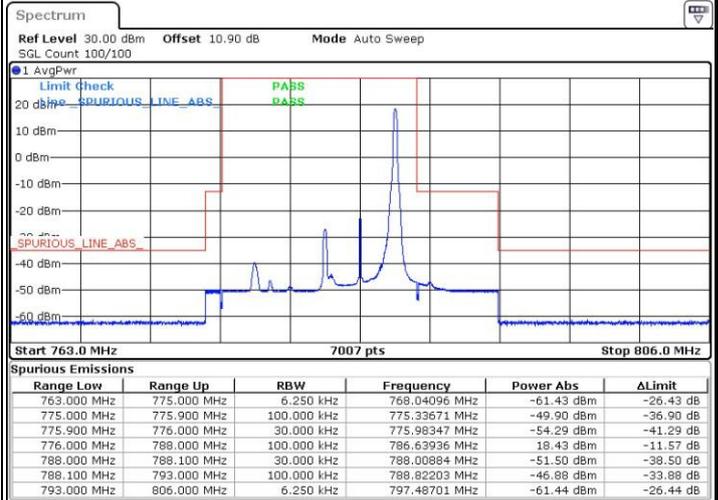
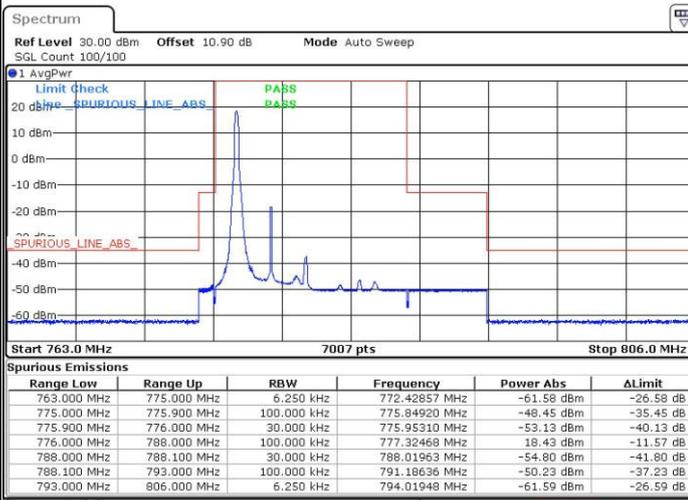
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LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

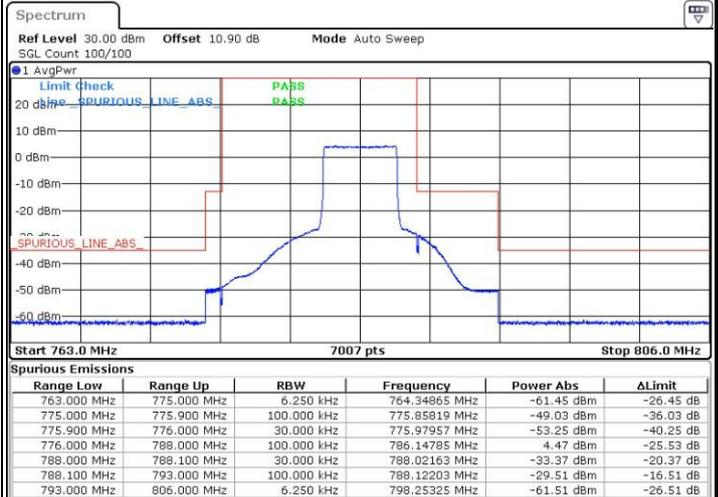
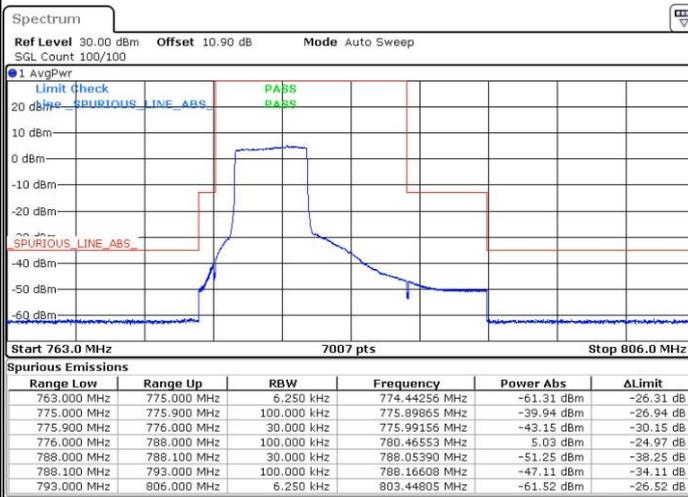


Date: 26 MAR 2016 15:32:16

Date: 26 MAR 2016 15:36:54

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



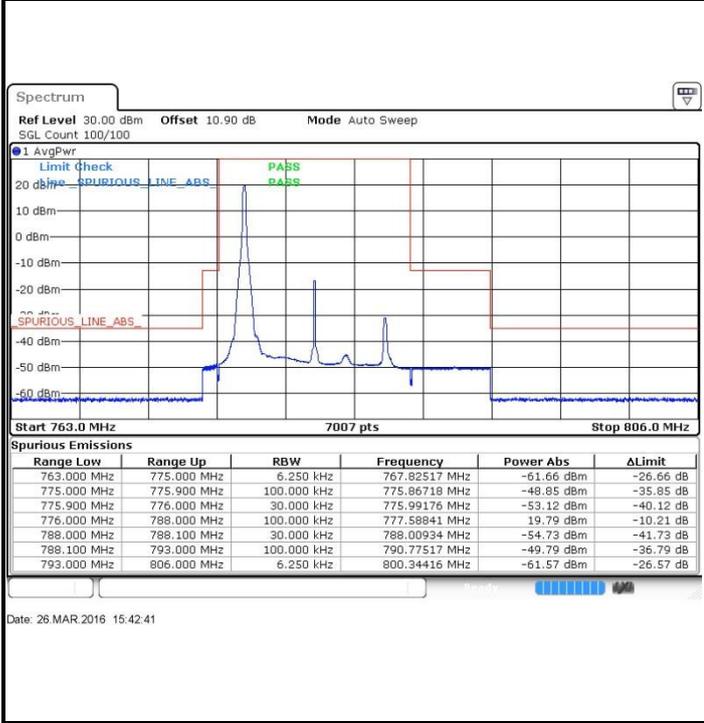
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Date: 26 MAR 2016 15:35:44

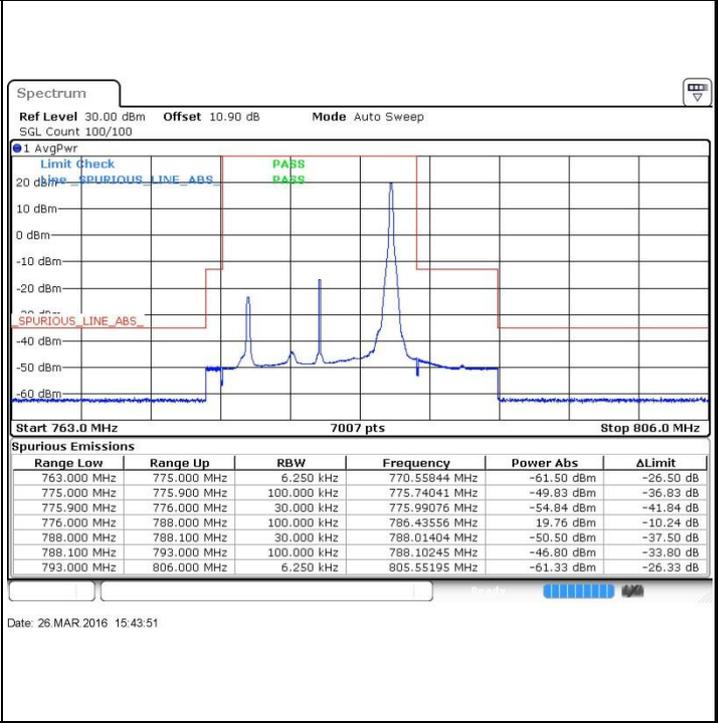


LTE Band 13 / 10MHz / QPSK

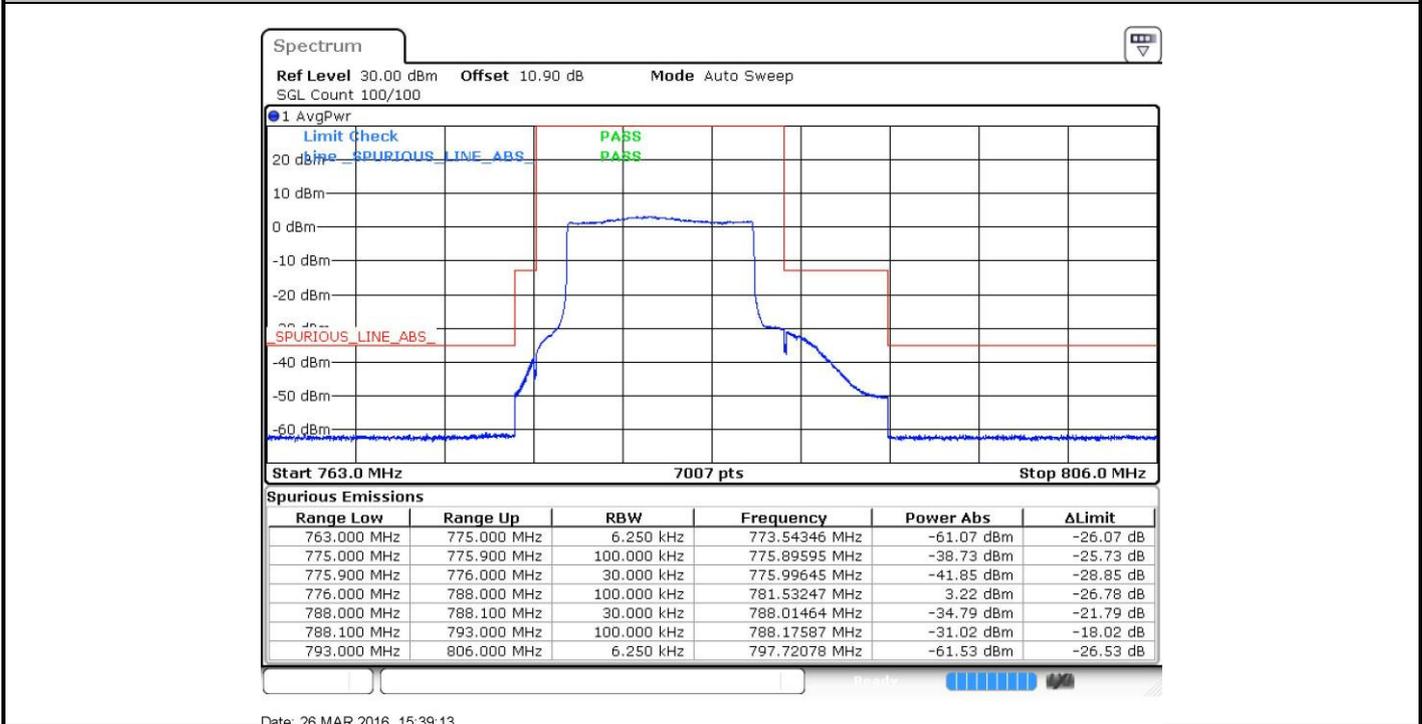
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



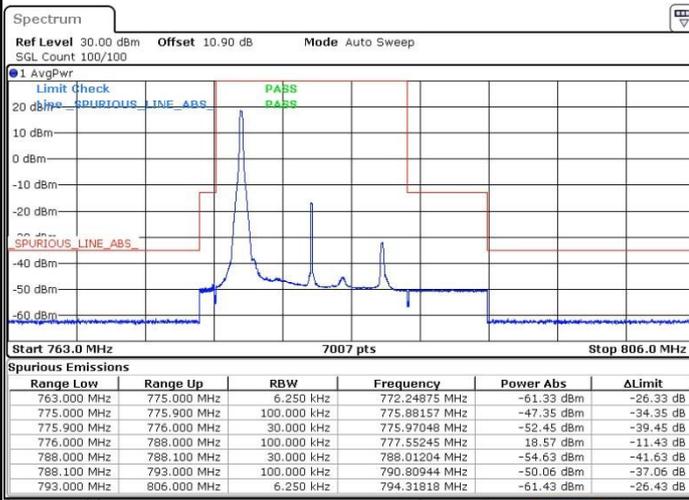
Band Edge / Full RB





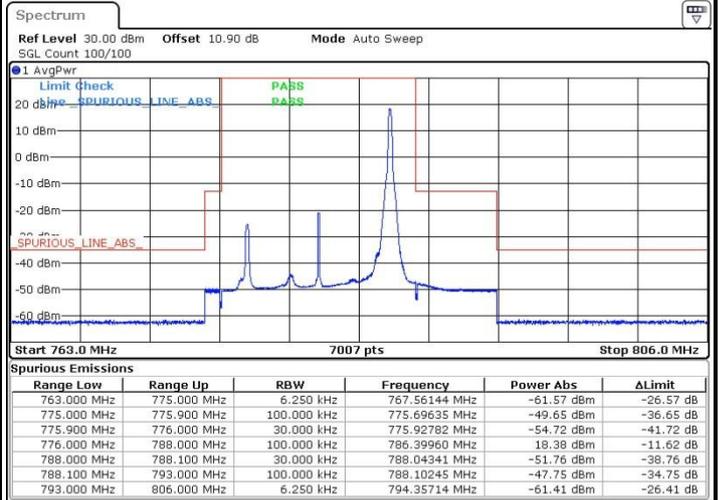
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



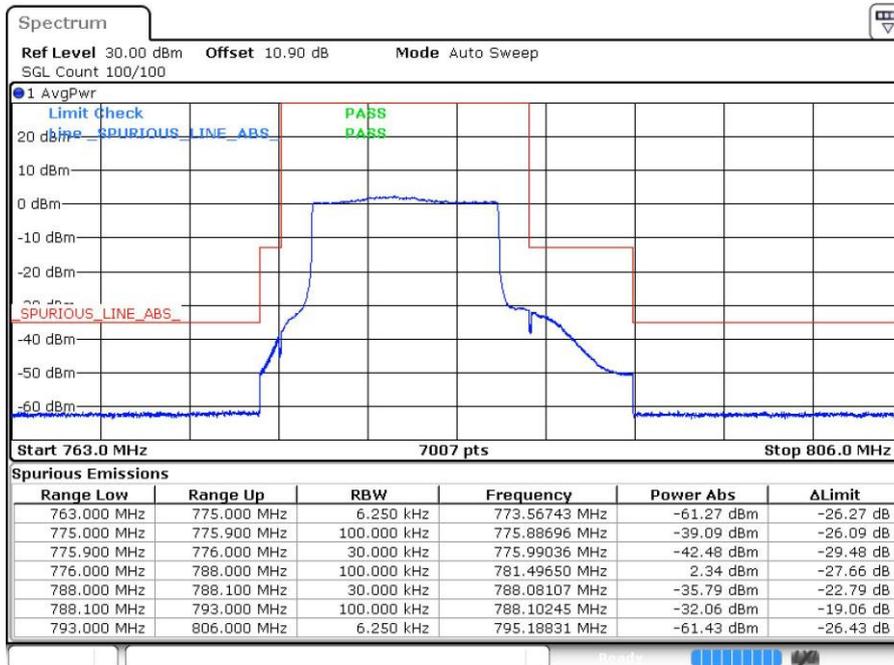
Date: 26 MAR 2016 15:41:32

Highest Band Edge / 1 RB



Date: 26 MAR 2016 15:45:01

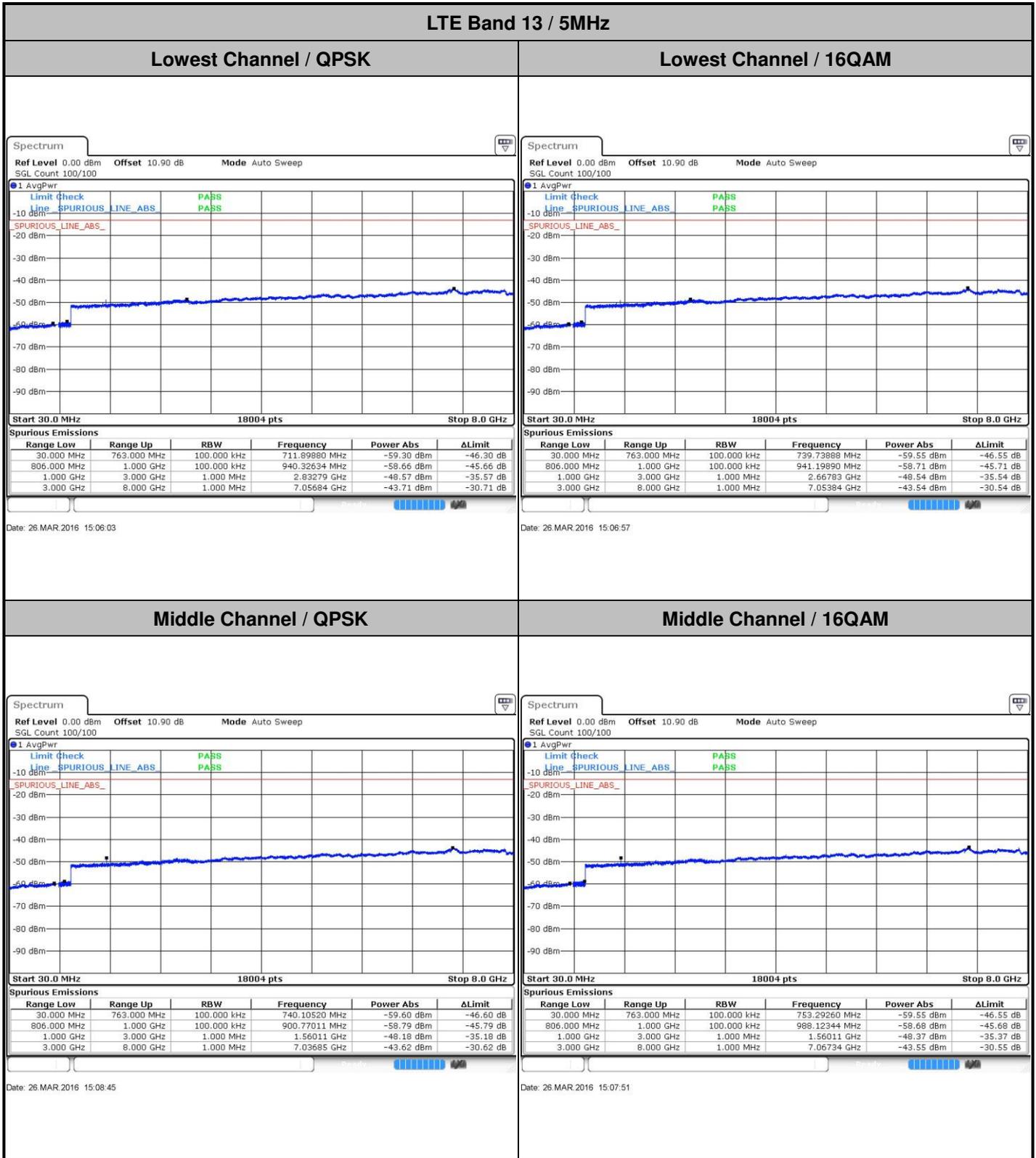
Band Edge / Full RB



Date: 26 MAR 2016 15:40:22



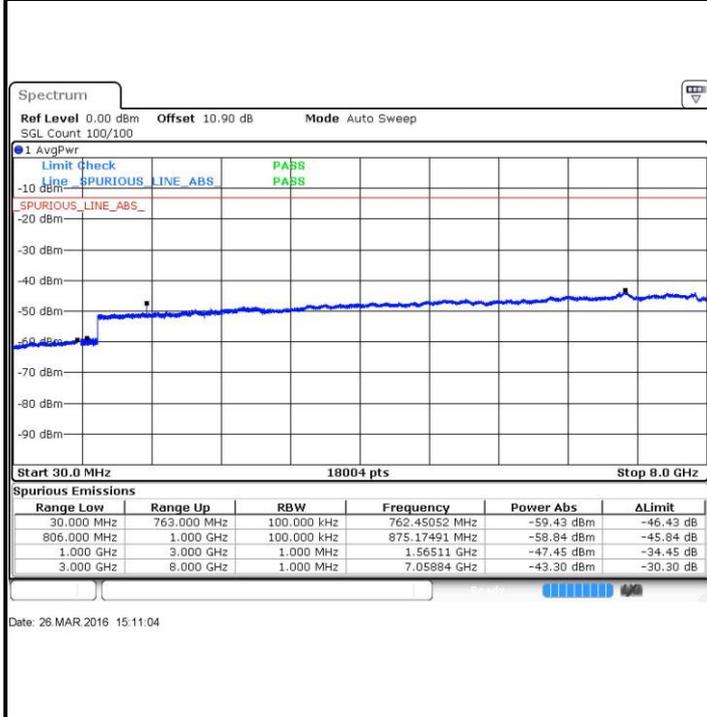
Conducted Spurious Emission



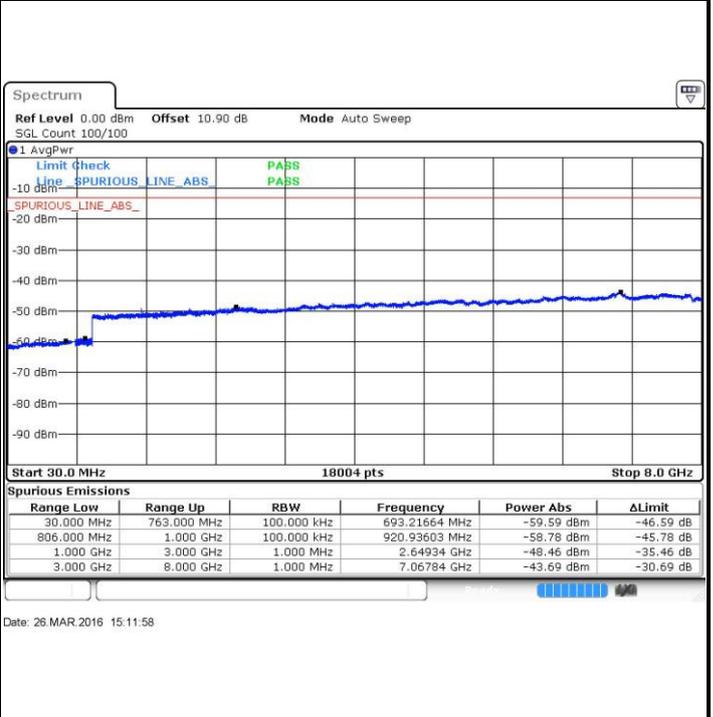


LTE Band 13 / 5MHz

Highest Channel / QPSK

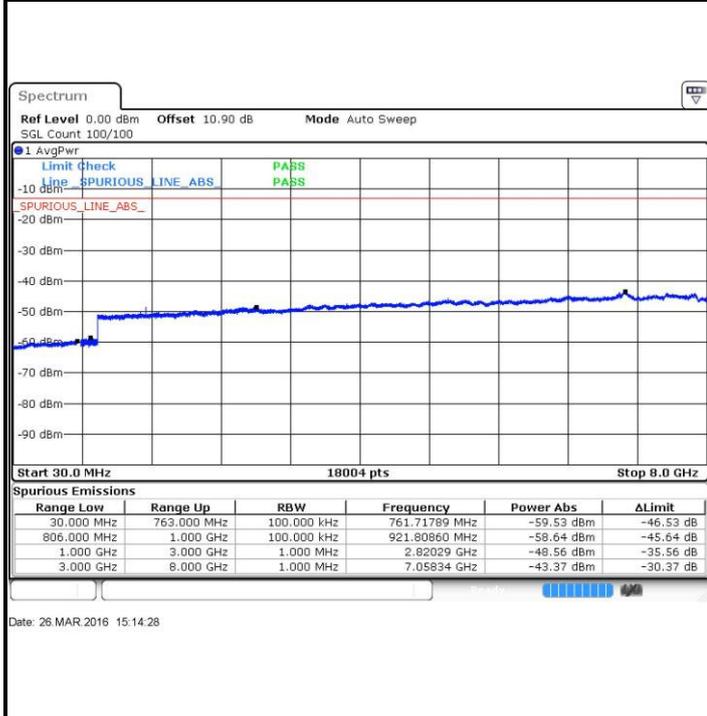


Highest Channel / 16QAM

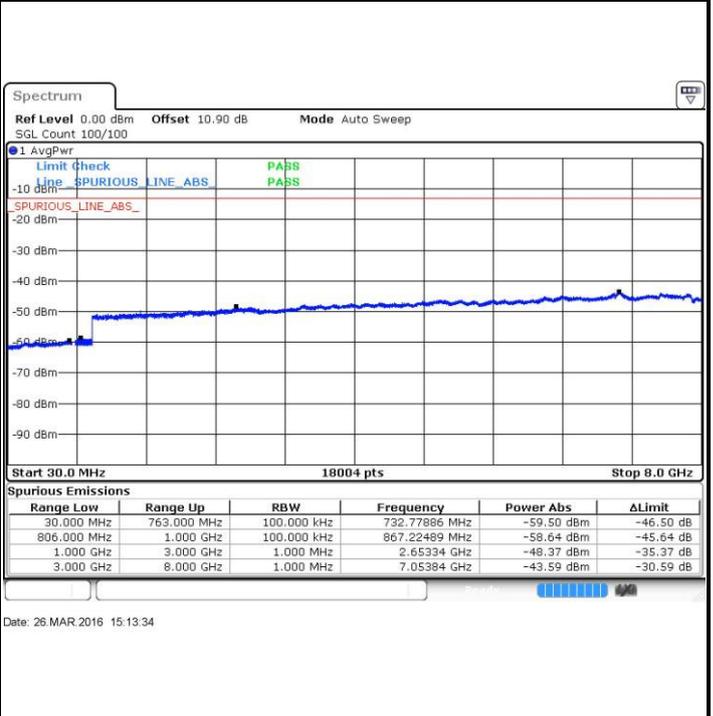


LTE Band 13 / 10MHz

Middle Channel / QPSK



Middle Channel / 16QAM





Frequency Stability

| Test Conditions | | LTE Band 13 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0138 | PASS |
| 40 | Normal Voltage | 0.0004 | |
| 30 | Normal Voltage | 0.0023 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0148 | |
| 0 | Normal Voltage | 0.0142 | |
| -10 | Normal Voltage | 0.0012 | |
| -20 | Normal Voltage | 0.0130 | |
| -30 | Normal Voltage | 0.0127 | |
| 20 | Maximum Voltage | 0.0121 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0014 | |

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.2 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

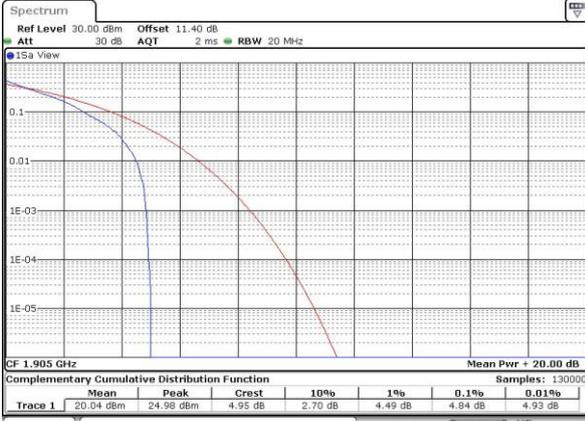
Peak-to-Average Ratio

| Mode | LTE Band 25 / 20MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | - | - | - | - | PASS |
| Middle CH | - | - | - | - | |
| Highest CH | 4.84 | 5.19 | 5.62 | 6.2 | |



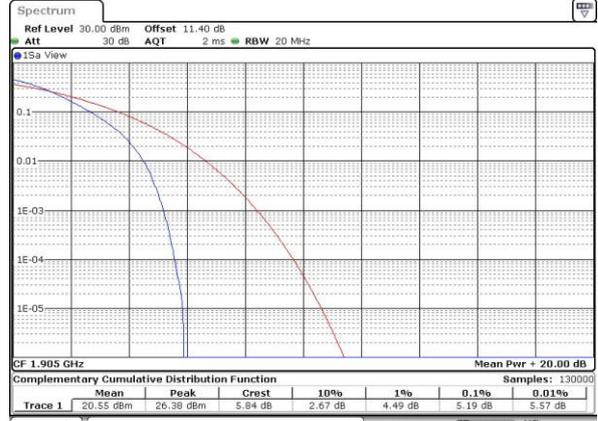
LTE Band 25 / 20MHz / QPSK

Highest Channel / 1RB



Date: 27 MAR 2016 10:08:22

Highest Channel / Full RB



Date: 27 MAR 2016 10:08:33

LTE Band 25 / 20MHz / 16QAM

Highest Channel / 1RB



Date: 27 MAR 2016 10:08:02

Highest Channel / Full RB



Date: 27 MAR 2016 10:08:12



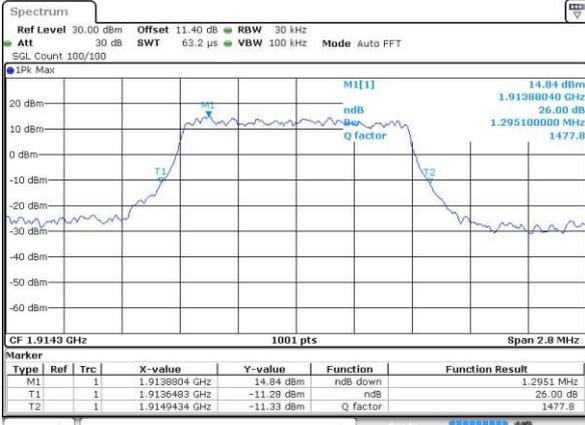
26dB Bandwidth

| Mode | LTE Band 25 : 26dB BW(MHz) | | | | | | | | | | | |
|------------|----------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | - | - | - | - | - | - | - | - |
| Middle CH | - | - | - | - | - | - | - | - | - | - | - | - |
| Highest CH | 1.3 | 1.29 | 2.99 | 2.99 | 5 | 4.9 | 9.91 | 9.81 | 14.3 | 14.33 | 20.1 | 20.26 |



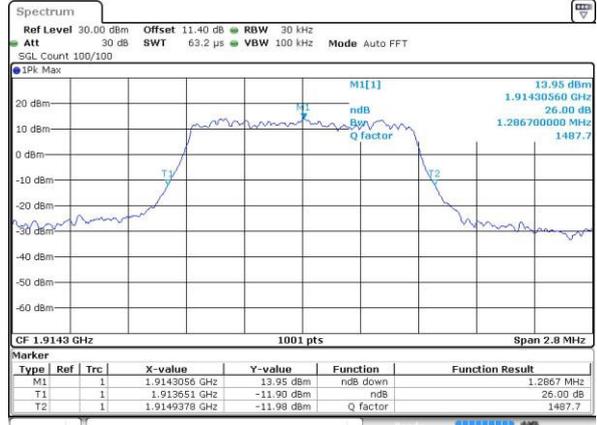
LTE Band 25

Highest Channel / 1.4MHz / QPSK



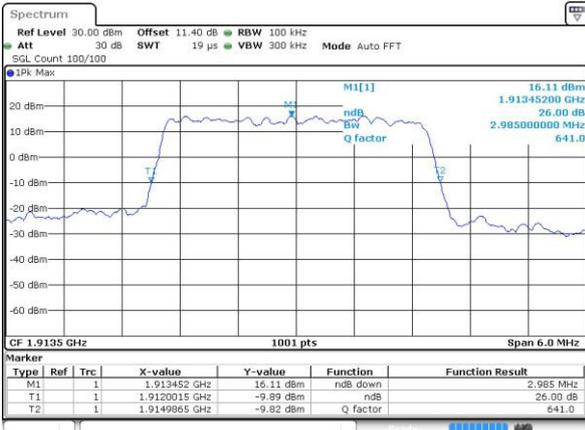
Date: 27 MAR 2016 10:00:32

Highest Channel / 1.4MHz / 16QAM



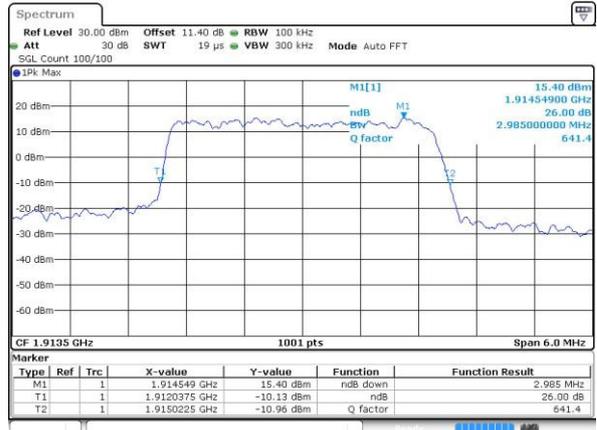
Date: 27 MAR 2016 10:00:22

Highest Channel / 3MHz / QPSK



Date: 27 MAR 2016 09:21:38

Highest Channel / 3MHz / 16QAM



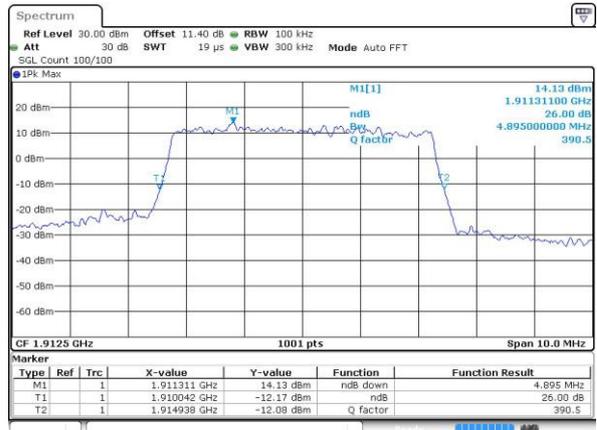
Date: 27 MAR 2016 09:21:27

Highest Channel / 5MHz / QPSK



Date: 27 MAR 2016 09:28:48

Highest Channel / 5MHz / 16QAM

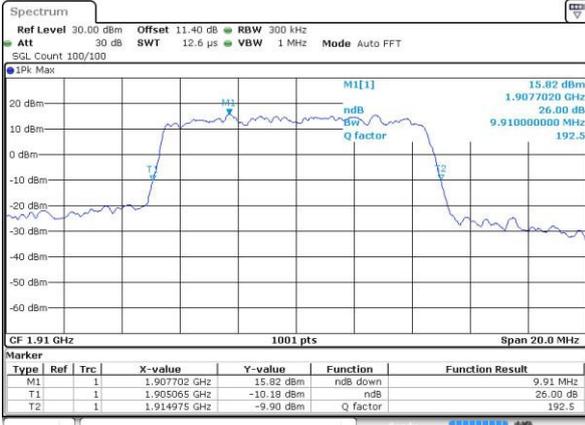


Date: 27 MAR 2016 09:28:37



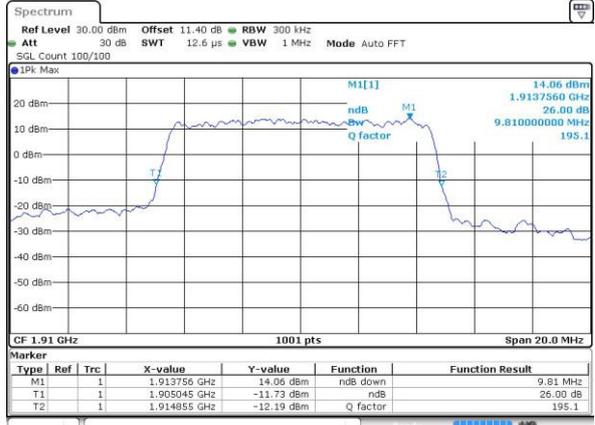
LTE Band 25

Highest Channel / 10MHz / QPSK



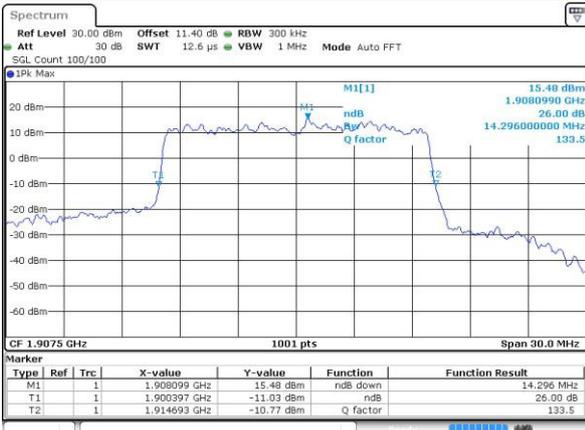
Date: 27 MAR 2016 09:35:57

Highest Channel / 10MHz / 16QAM



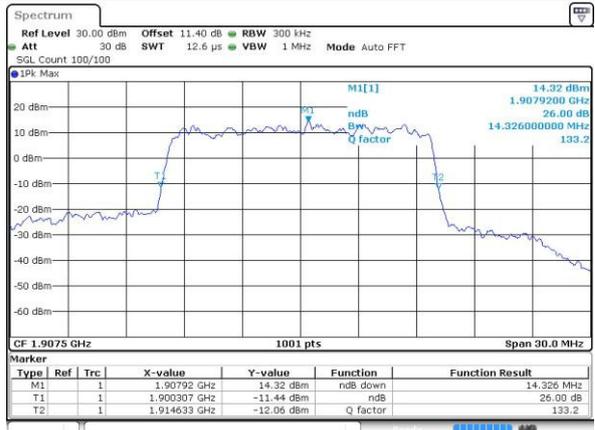
Date: 27 MAR 2016 09:35:47

Highest Channel / 15MHz / QPSK



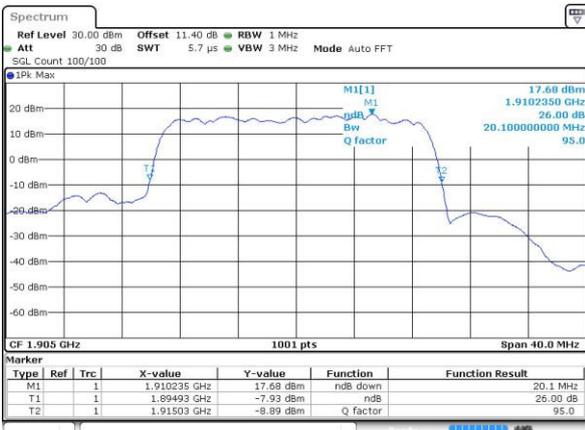
Date: 27 MAR 2016 09:43:06

Highest Channel / 15MHz / 16QAM



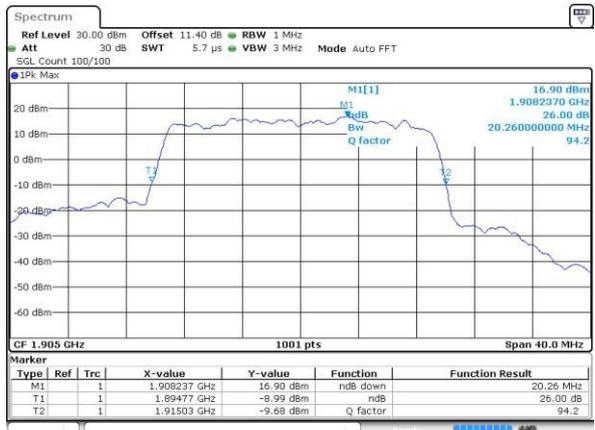
Date: 27 MAR 2016 09:42:56

Highest Channel / 20MHz / QPSK



Date: 27 MAR 2016 09:50:15

Highest Channel / 20MHz / 16QAM



Date: 27 MAR 2016 09:50:05



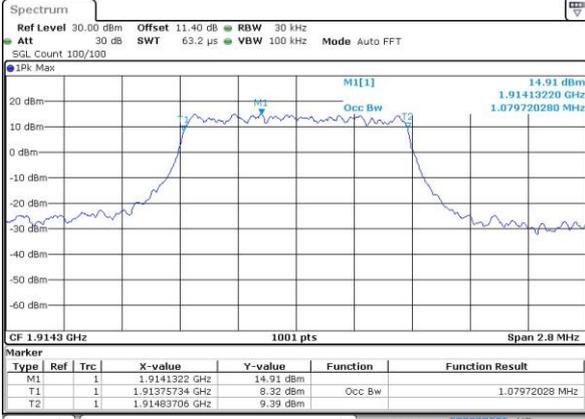
Occupied Bandwidth

| Mode | LTE Band 25 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | | | | | | | | | | | | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | - | - | - | - | - | - | - | - |
| Middle CH | - | - | - | - | - | - | - | - | - | - | - | - |
| Highest CH | 1.08 | 1.09 | 2.73 | 2.71 | 4.48 | 4.49 | 8.93 | 8.97 | 13.37 | 13.43 | 18.18 | 18.34 |



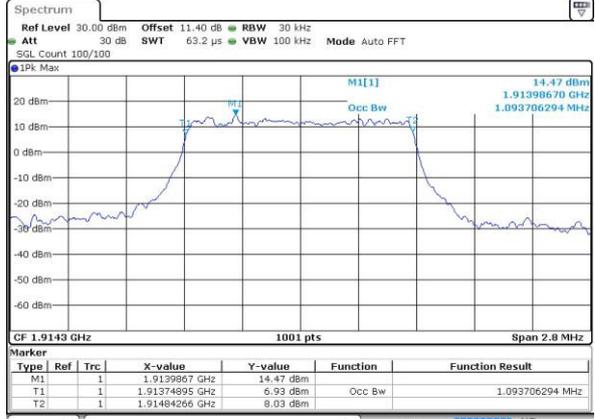
LTE Band 25

Highest Channel / 1.4MHz / QPSK



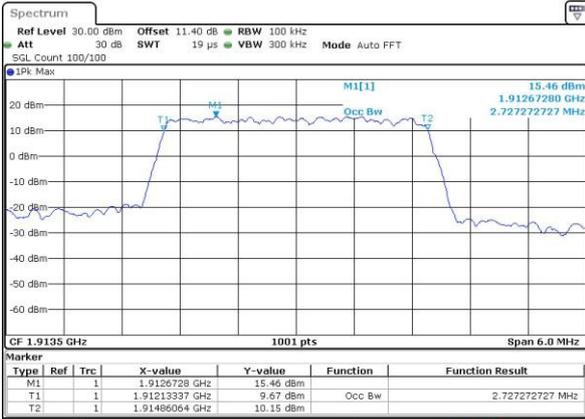
Date: 27 MAR 2016 10:00:01

Highest Channel / 1.4MHz / 16QAM



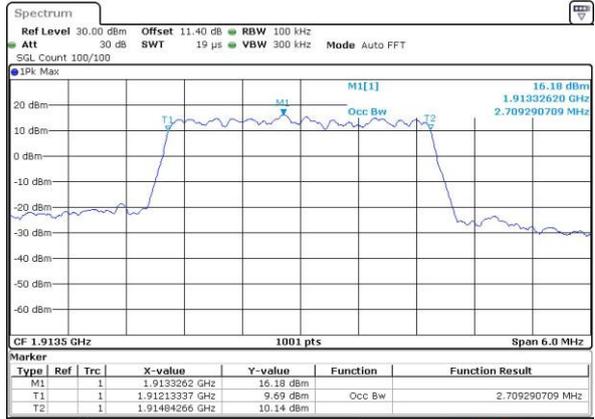
Date: 27 MAR 2016 10:00:11

Highest Channel / 3MHz / QPSK



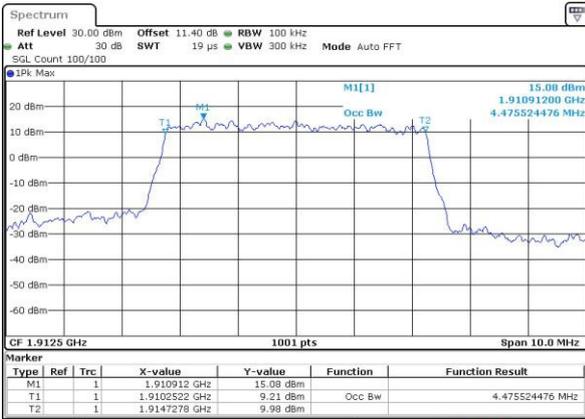
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Highest Channel / 3MHz / 16QAM



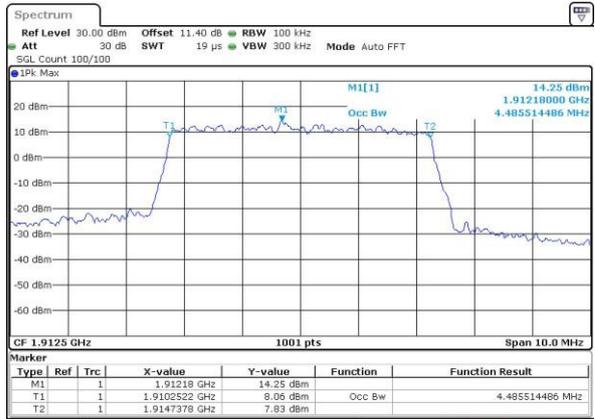
Date: 27 MAR 2016 09:21:17

Highest Channel / 5MHz / QPSK



Date: 27 MAR 2016 09:28:16

Highest Channel / 5MHz / 16QAM

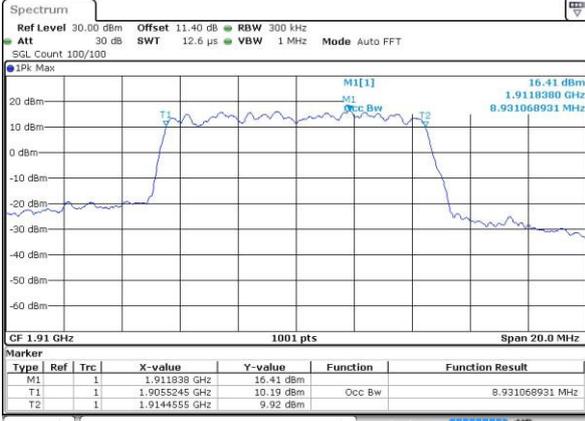


Date: 27 MAR 2016 09:28:27



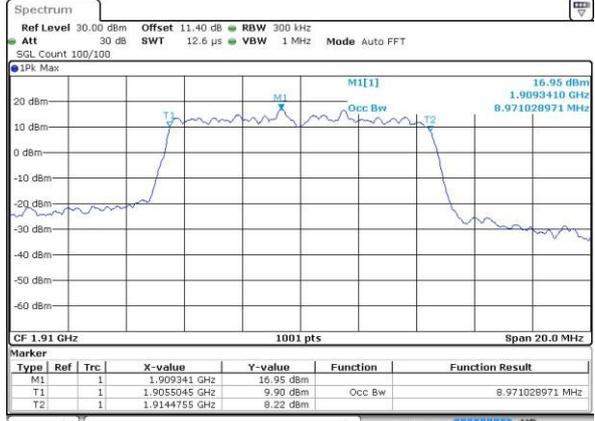
LTE Band 25

Highest Channel / 10MHz / QPSK



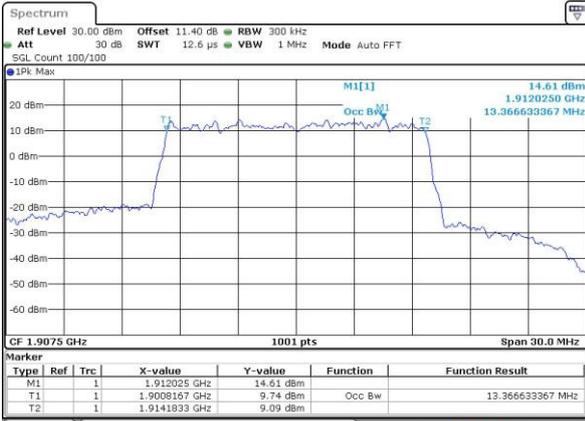
Date: 27 MAR 2016 09:35:26

Highest Channel / 10MHz / 16QAM



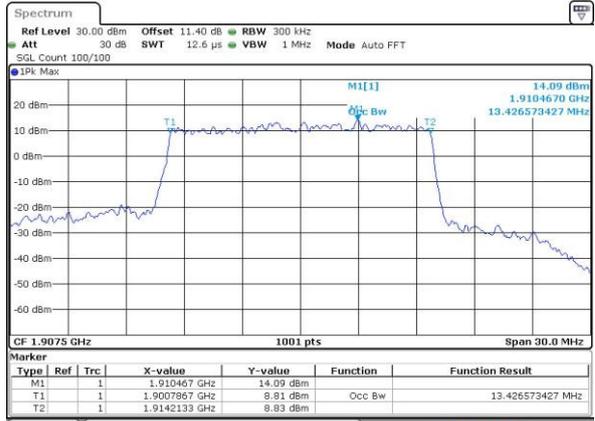
Date: 27 MAR 2016 09:35:36

Highest Channel / 15MHz / QPSK



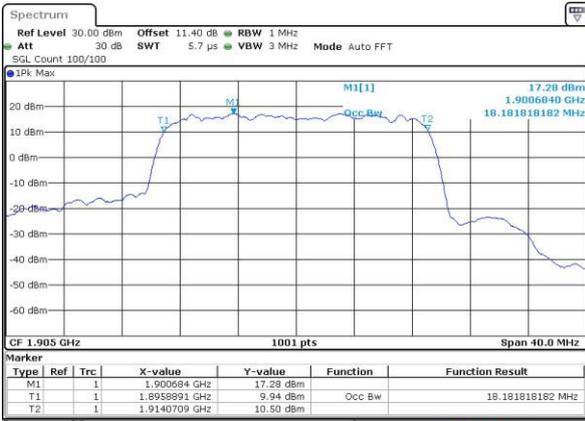
Date: 27 MAR 2016 09:42:35

Highest Channel / 15MHz / 16QAM



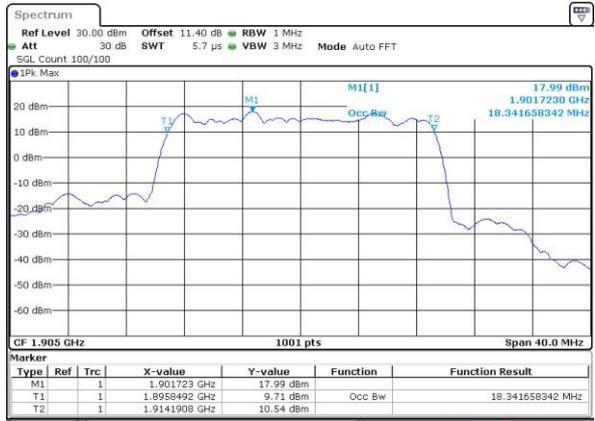
Date: 27 MAR 2016 09:42:45

Highest Channel / 20MHz / QPSK



Date: 27 MAR 2016 09:49:44

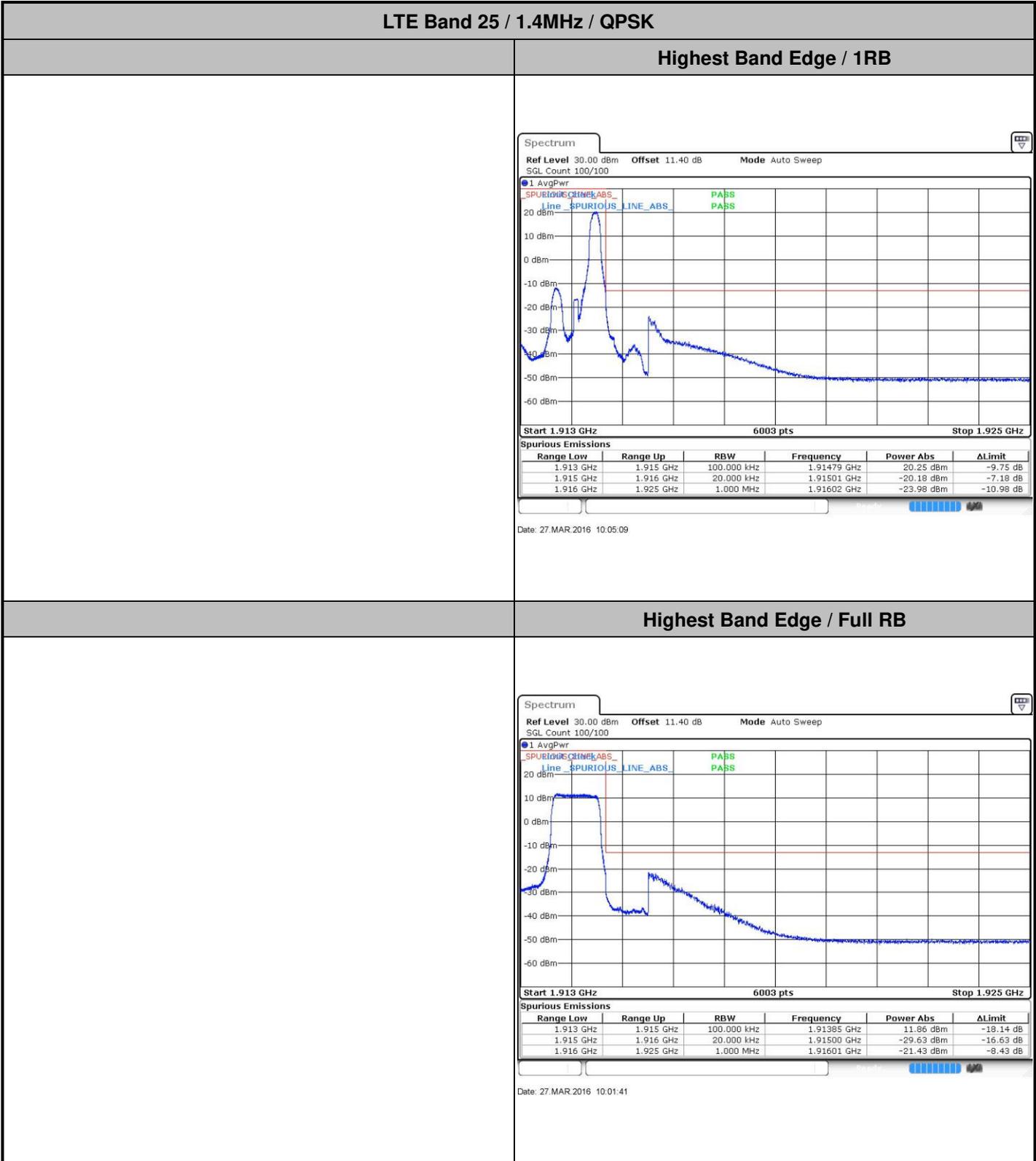
Highest Channel / 20MHz / 16QAM



Date: 27 MAR 2016 09:49:54



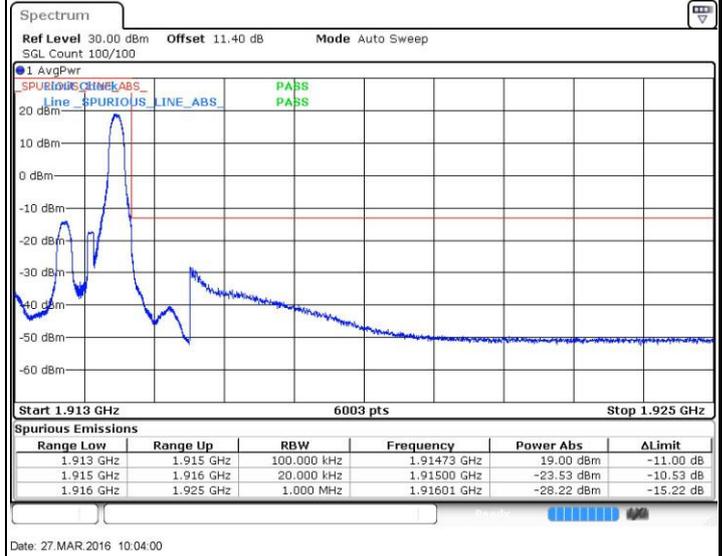
Conducted Band Edge



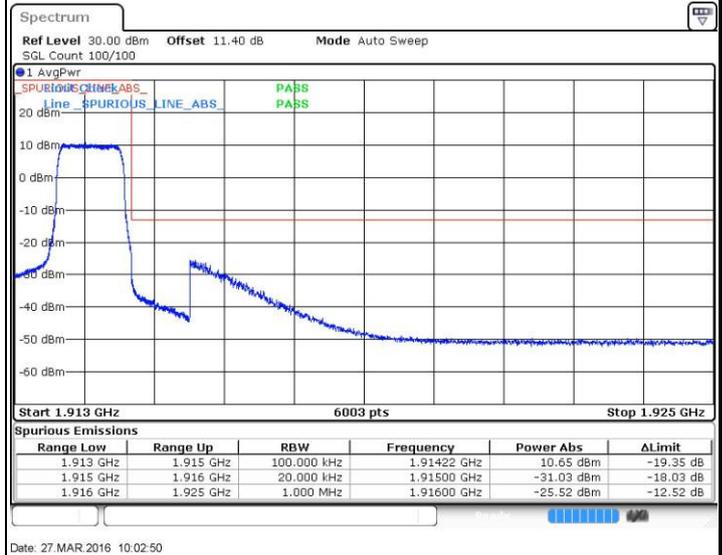


LTE Band 25 / 1.4MHz / 16QAM

Highest Band Edge / 1 RB



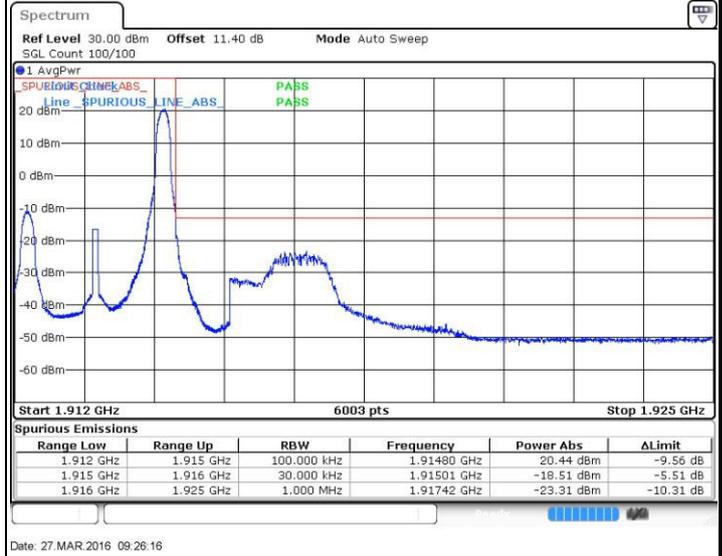
Highest Band Edge / Full RB



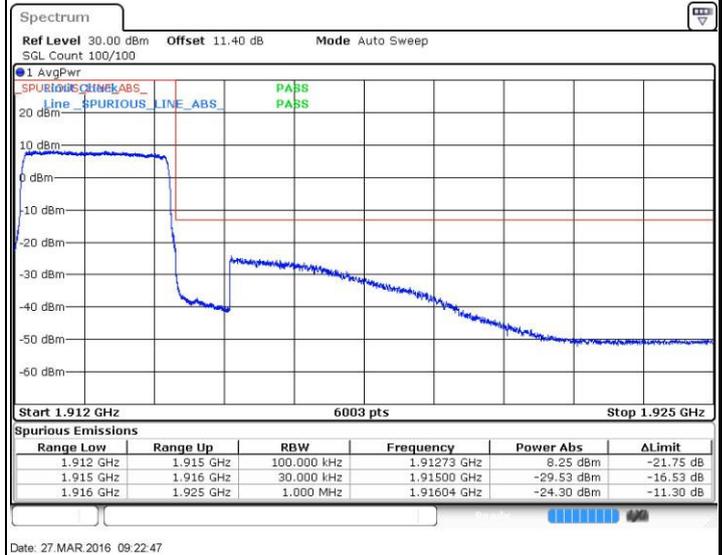


LTE Band 25 / 3MHz / QPSK

Highest Band Edge / 1 RB



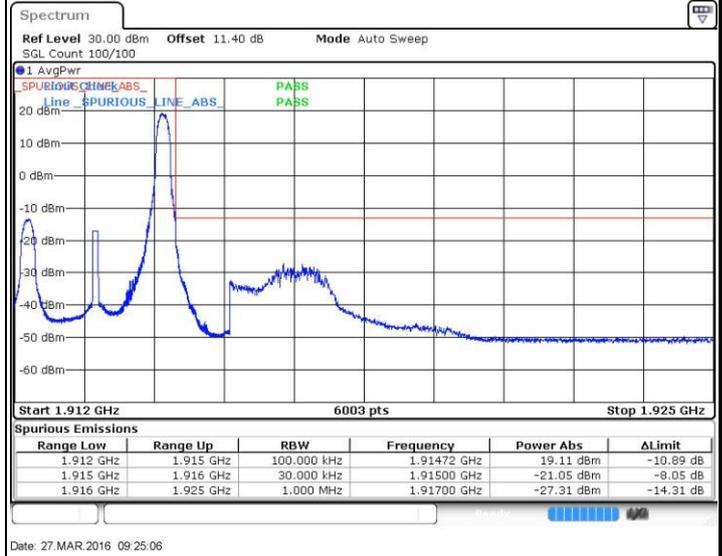
Highest Band Edge / Full RB



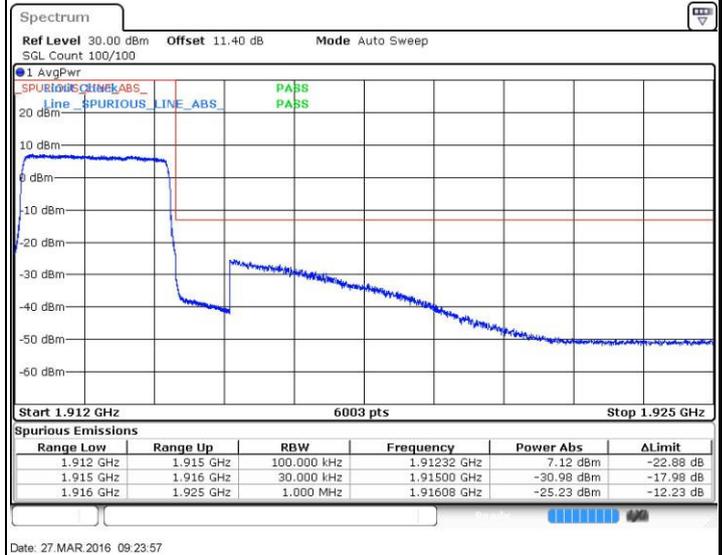


LTE Band 25 / 3MHz / 16QAM

Highest Band Edge / 1 RB



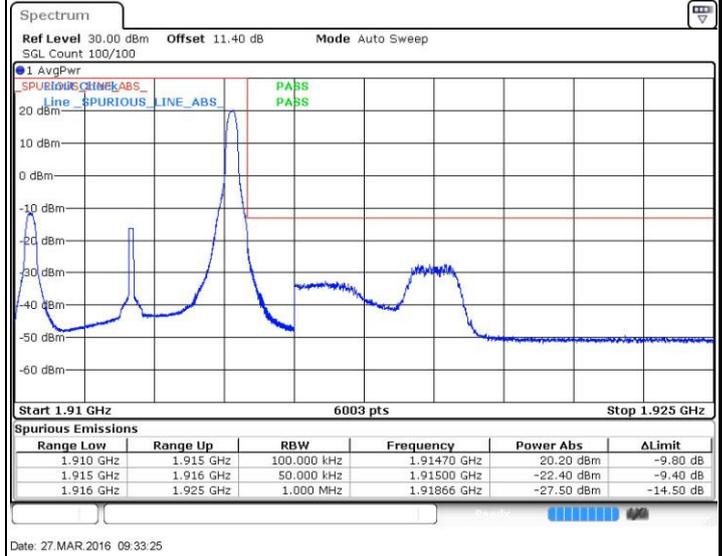
Highest Band Edge / Full RB





LTE Band 25 / 5MHz / QPSK

Highest Band Edge / 1 RB



Highest Band Edge / Full RB

