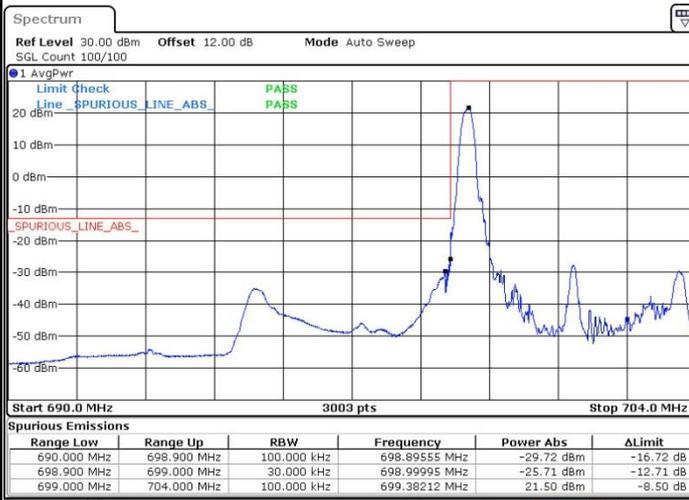




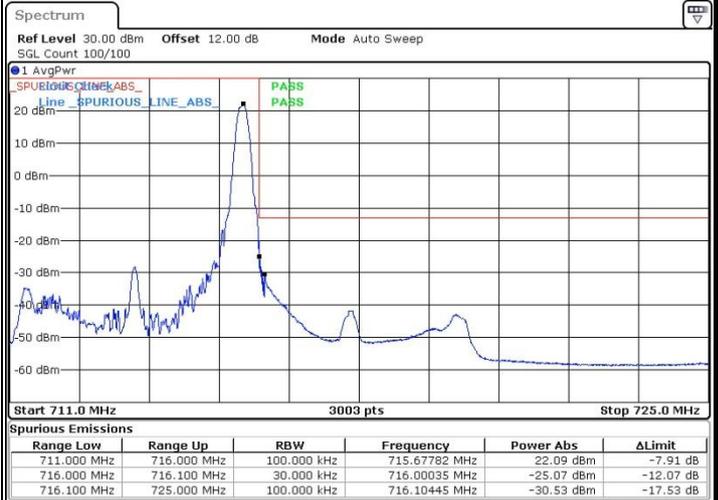
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 9 AUG 2015 18:04:23

Highest Band Edge / 1 RB



Date: 9 AUG 2015 18:15:08

Lowest Band Edge / Full RB



Date: 9 AUG 2015 17:58:40

Highest Band Edge / Full RB

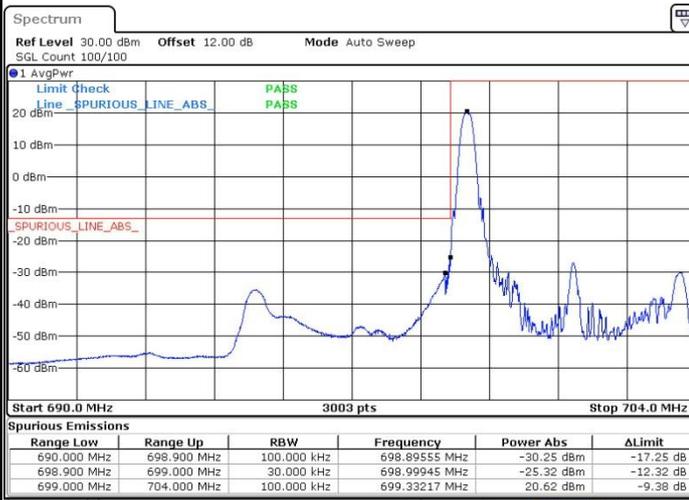


Date: 9 AUG 2015 18:11:19



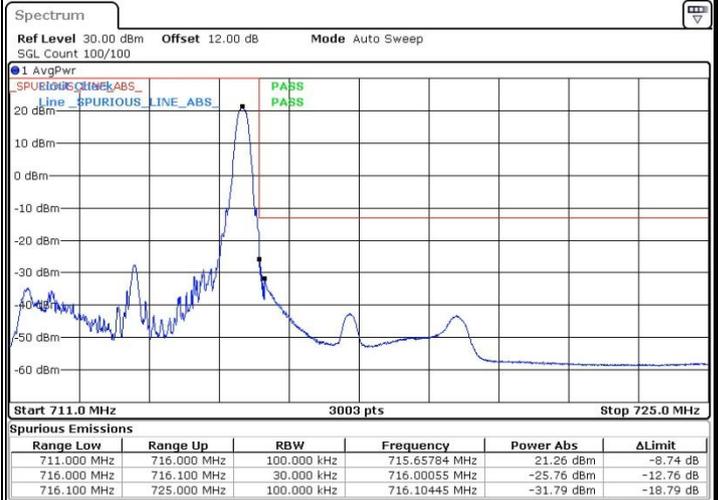
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 9 AUG 2015 18:02:29

Highest Band Edge / 1 RB



Date: 9 AUG 2015 18:17:02

Lowest Band Edge / Full RB



Date: 9 AUG 2015 18:00:35

Highest Band Edge / Full RB



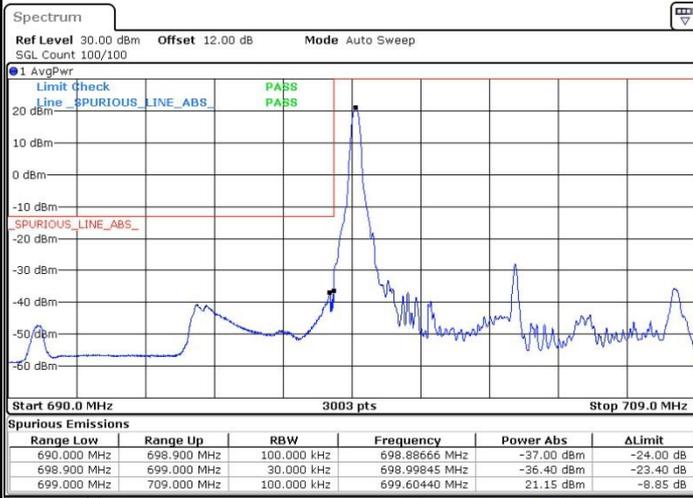
Date: 9 AUG 2015 18:13:14



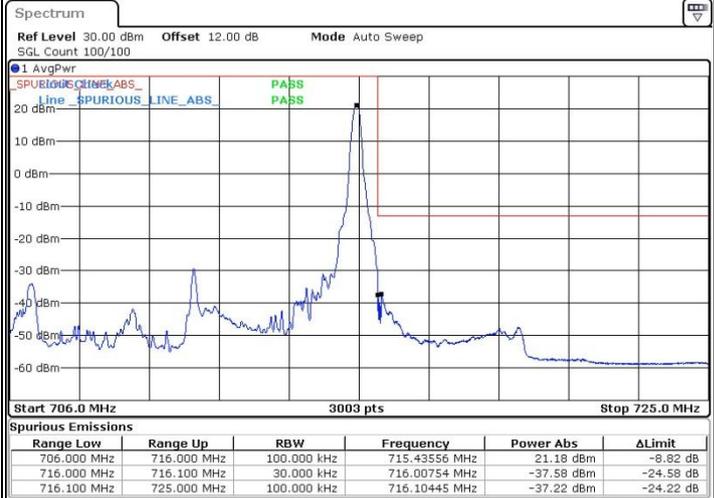
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



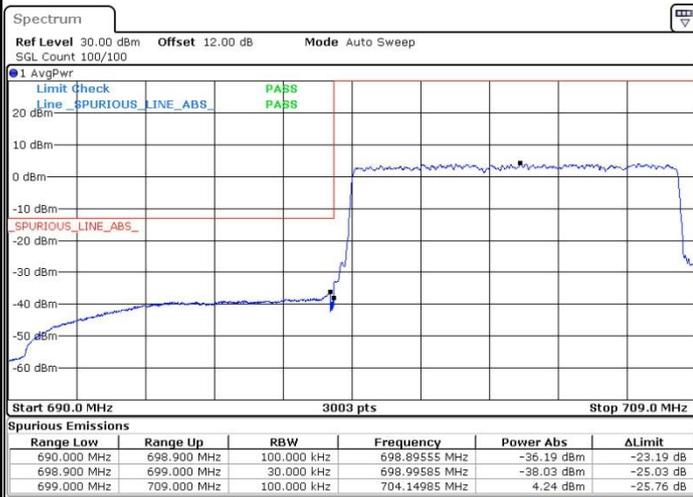
Date: 10 AUG 2015 10:01:39



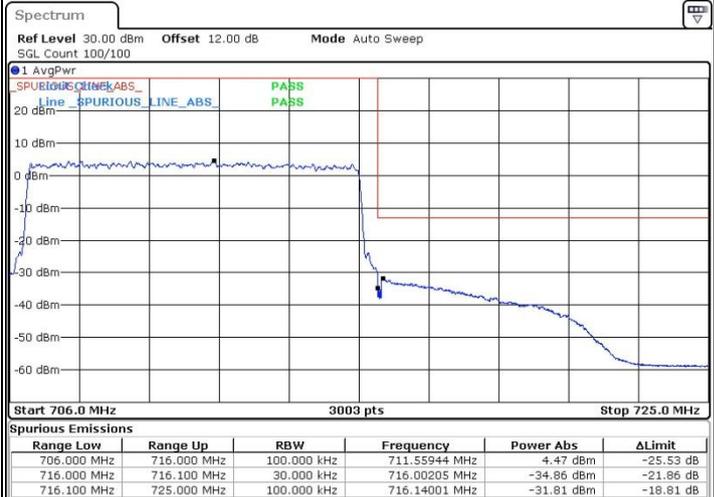
Date: 10 AUG 2015 10:15:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10 AUG 2015 09:50:50

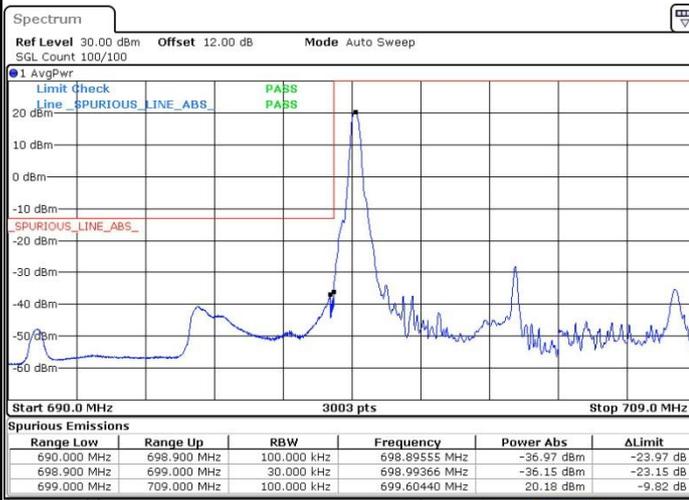


Date: 10 AUG 2015 10:09:17



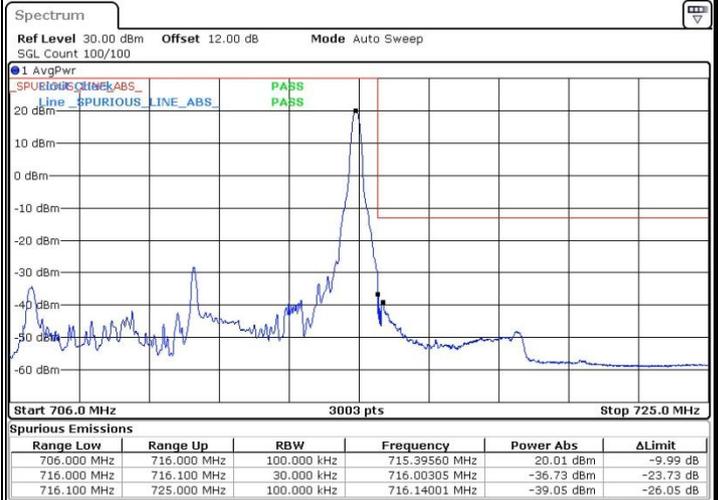
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



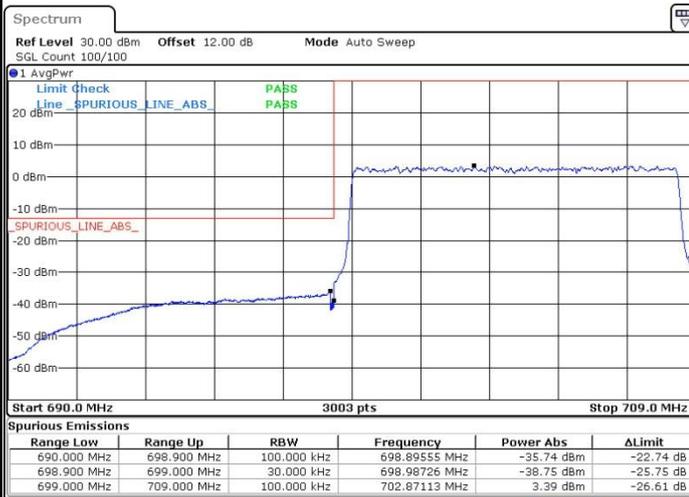
Date: 10 AUG 2015 21:25:20

Highest Band Edge / 1 RB



Date: 10 AUG 2015 10:13:14

Lowest Band Edge / Full RB



Date: 10 AUG 2015 21:26:43

Highest Band Edge / Full RB



Date: 10 AUG 2015 10:11:15



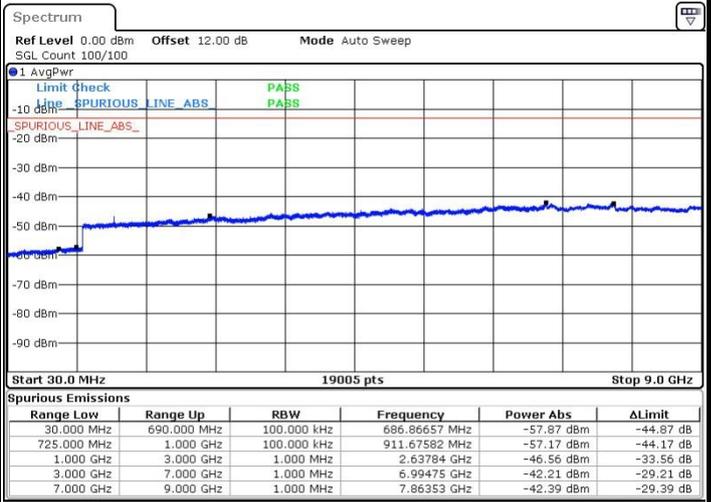
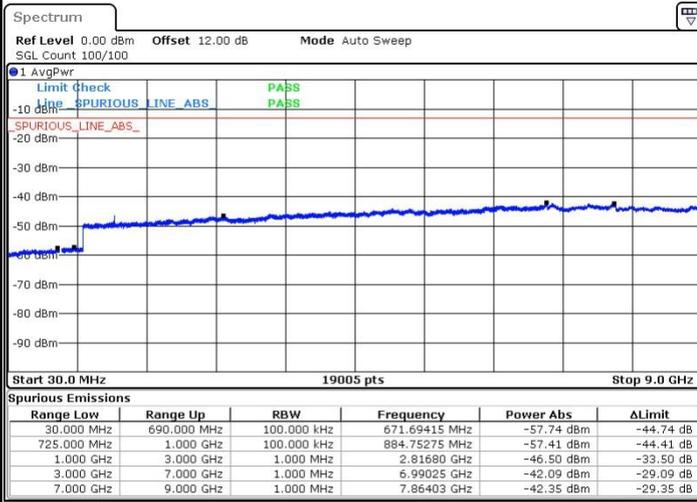
Conducted Spurious Emission



LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

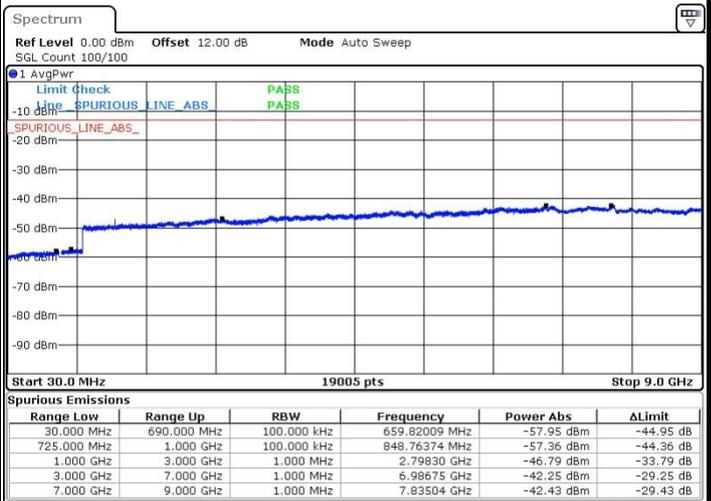
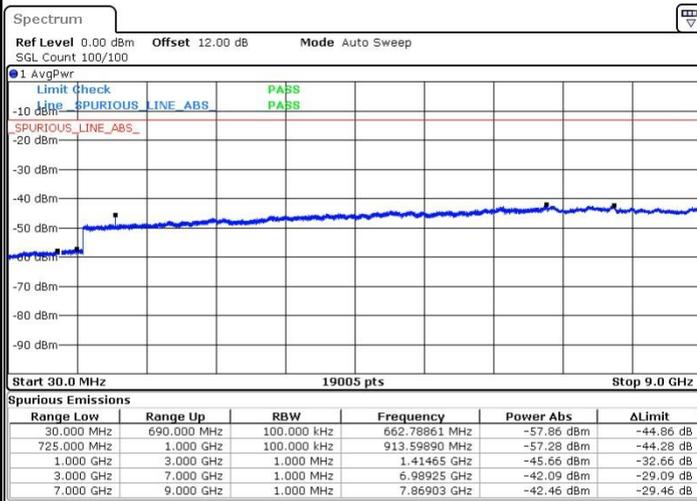


Date: 10.AUG.2015 10:32:52

Date: 10.AUG.2015 10:33:54

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 10.AUG.2015 10:36:43

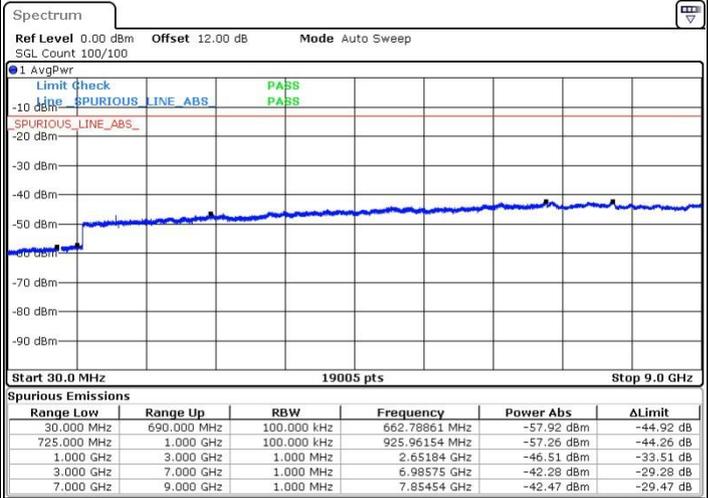
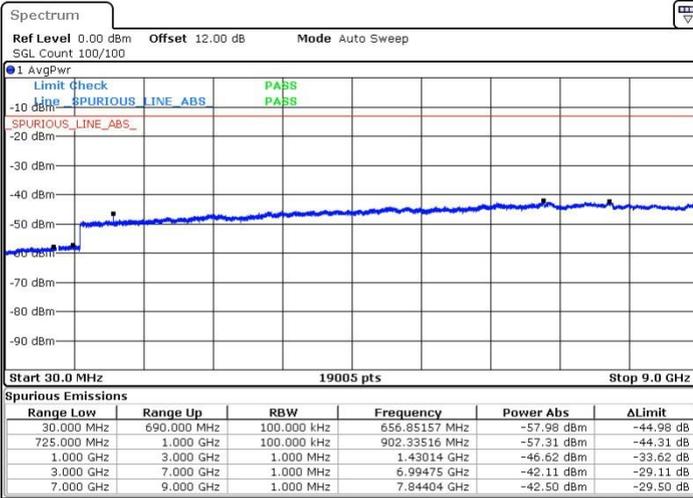
Date: 10.AUG.2015 10:35:40



LTE Band 12 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



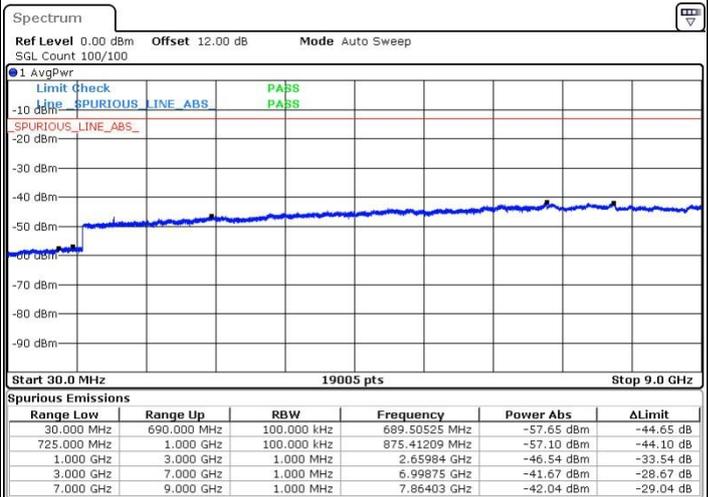
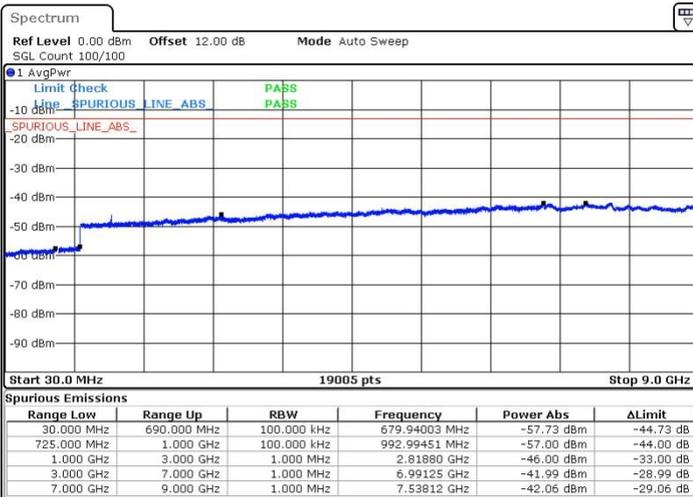
Date: 10.AUG.2015 10:46:22

Date: 10.AUG.2015 10:47:25

LTE Band 12 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 9.AUG.2015 17:42:31

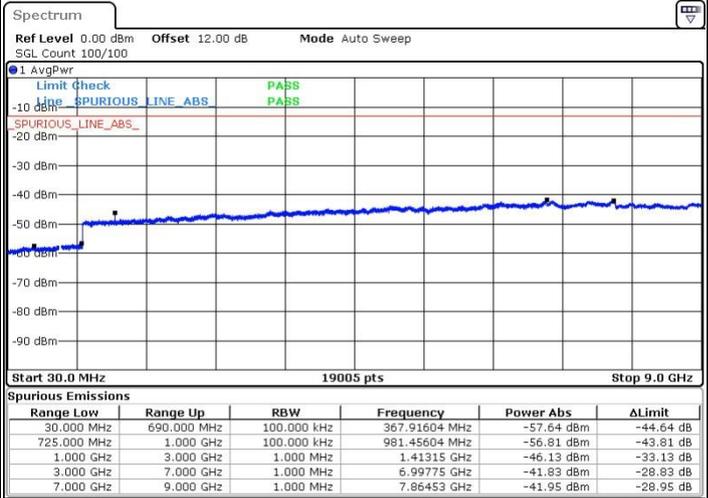
Date: 9.AUG.2015 17:43:26



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

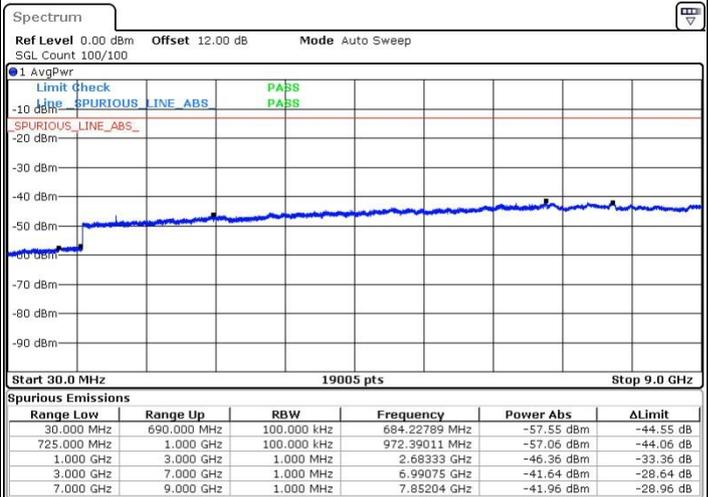


Date: 9 AUG.2015 17:45:57

Date: 9 AUG.2015 17:45:02

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 9 AUG.2015 17:55:10

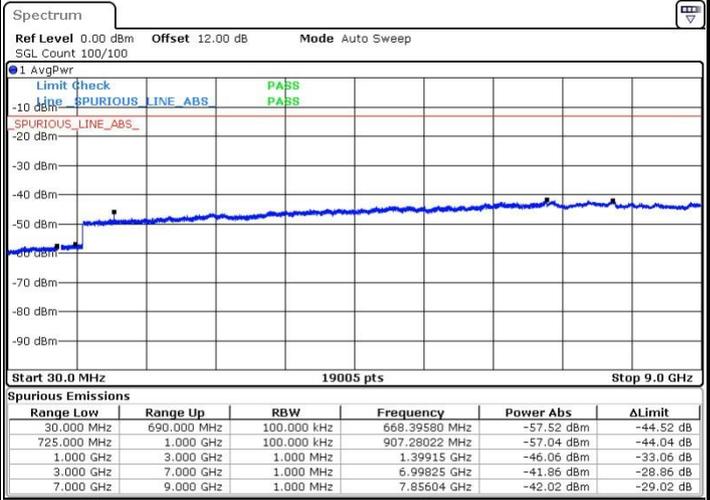
Date: 9 AUG.2015 17:56:05



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

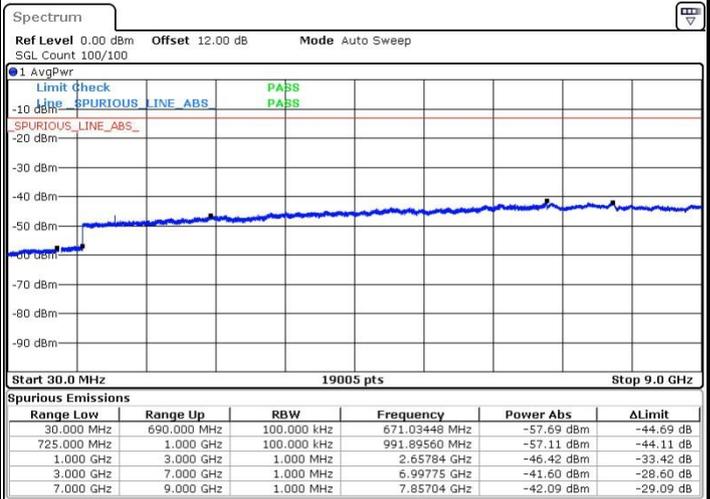


Date: 9 AUG.2015 18:05:18

Date: 9 AUG.2015 18:06:12

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 9 AUG.2015 18:08:43

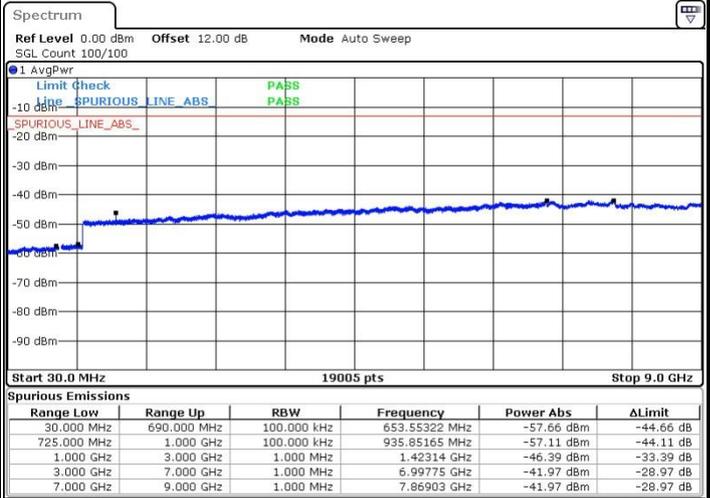
Date: 9 AUG.2015 18:07:49



LTE Band 12 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



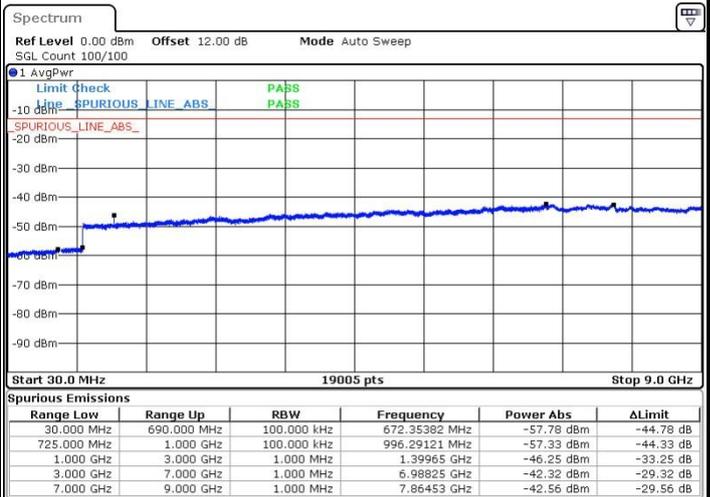
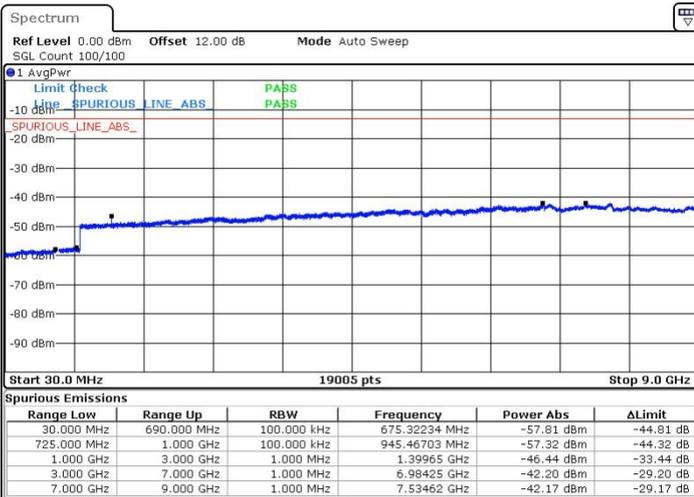
Date: 9 AUG 2015 18:18:52

Date: 9 AUG 2015 18:17:57

LTE Band 12 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 10 AUG 2015 21:27:30

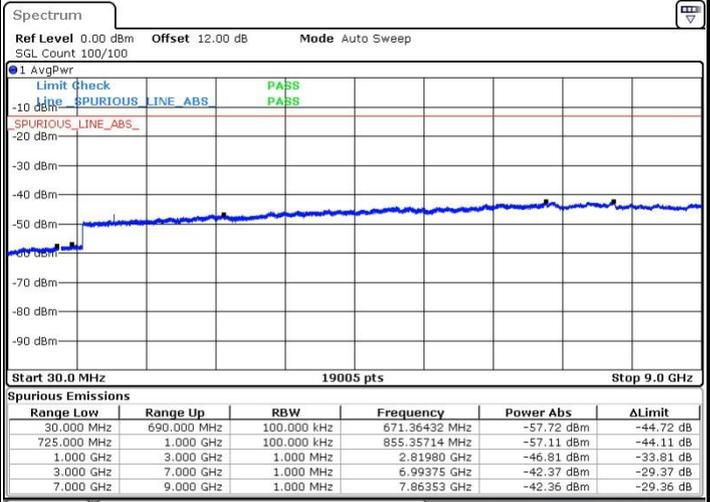
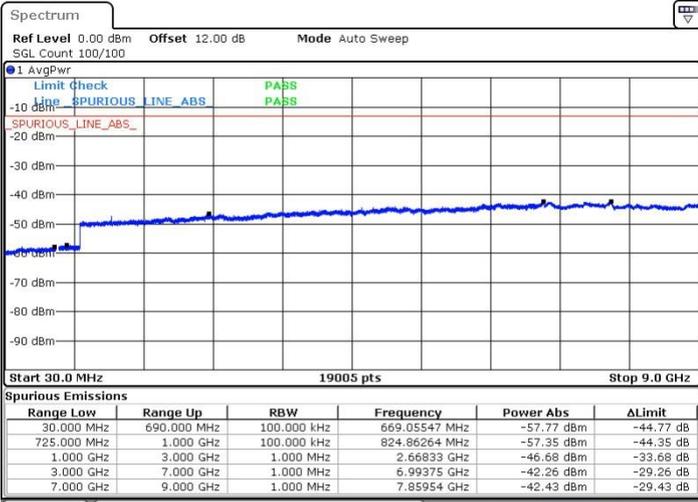
Date: 10 AUG 2015 10:03:46



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

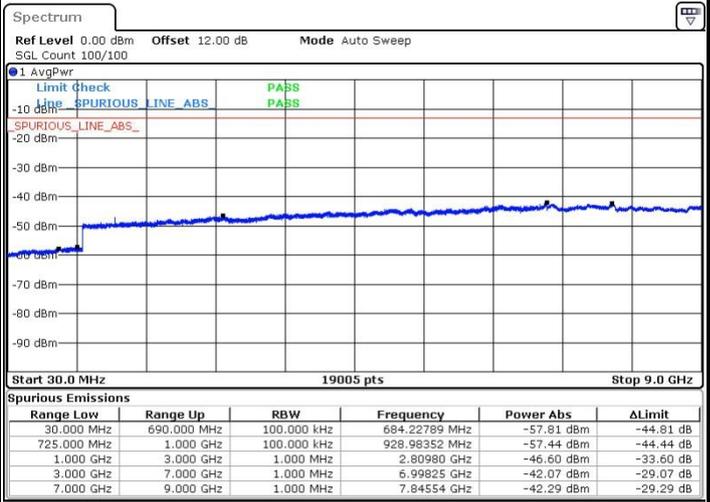
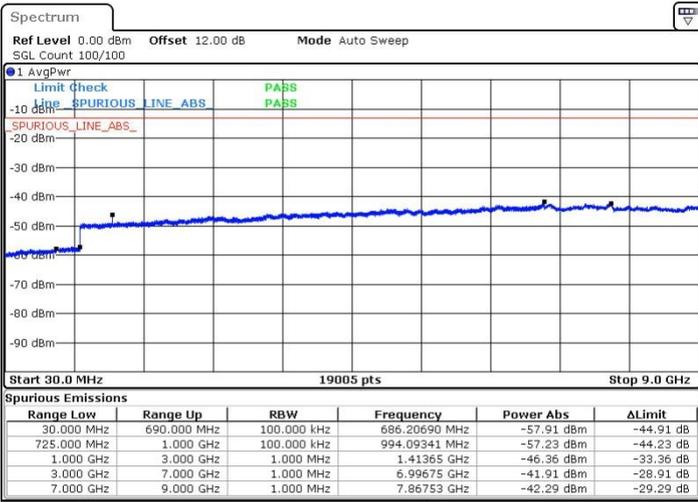


Date: 10.AUG.2015 10:06:36

Date: 10.AUG.2015 10:05:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.AUG.2015 10:16:17

Date: 10.AUG.2015 10:17:21



Frequency Stability

| Test Conditions | | LTE Band 12 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0123 | PASS |
| 40 | Normal Voltage | 0.0120 | |
| 30 | Normal Voltage | 0.0100 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0095 | |
| 0 | Normal Voltage | 0.0011 | |
| -10 | Normal Voltage | 0.0003 | |
| -20 | Normal Voltage | 0.0113 | |
| -30 | Normal Voltage | 0.0112 | |
| 20 | Maximum Voltage | 0.0110 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0008 | |

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

Peak-to-Average Ratio

| Mode | LTE Band 17 / 10MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 4.96 | 5.01 | 6 | 6 | PASS |
| Middle CH | 5.01 | 5.1 | 6.49 | 5.97 | |
| Highest CH | 5.13 | 5.13 | 6.32 | 6.03 | |



LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 9 AUG 2015 17:26:14

Lowest Channel / Full RB



Date: 9 AUG 2015 17:26:24

Middle Channel / 1RB



Date: 9 AUG 2015 17:26:33

Middle Channel / Full RB



Date: 9 AUG 2015 17:26:44

Highest Channel / 1RB



Date: 9 AUG 2015 17:26:54

Highest Channel / Full RB



Date: 9 AUG 2015 17:27:03



LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 9 AUG 2015 17:25:14

Lowest Channel / Full RB



Date: 9 AUG 2015 17:25:24

Middle Channel / 1RB



Date: 9 AUG 2015 17:25:33

Middle Channel / Full RB



Date: 9 AUG 2015 17:25:43

Highest Channel / 1RB



Date: 9 AUG 2015 17:25:55

Highest Channel / Full RB



Date: 9 AUG 2015 17:26:05



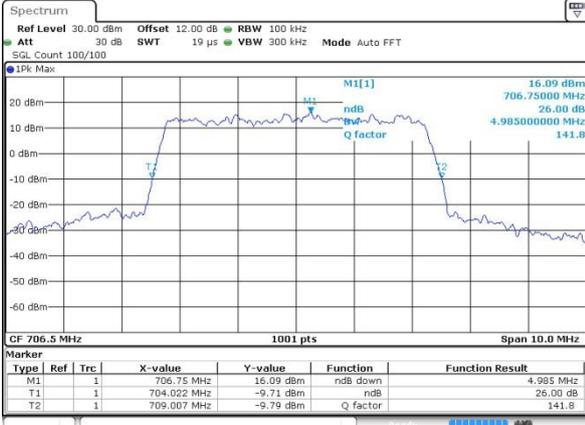
26dB Bandwidth

| Mode | LTE Band 17 : 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 | - | - | - | - | 4.99 | 4.87 | 9.63 | 9.77 | - | - | - | - |
| Middle CH | - | - | - | - | 4.89 | 4.89 | 9.81 | 9.77 | - | - | - | - |
| Highest CH | - | - | - | - | 4.91 | 4.88 | 9.67 | 9.77 | - | - | - | - |



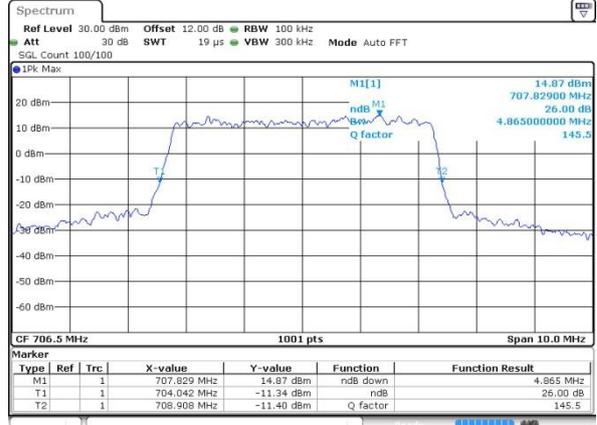
LTE Band 17

Lowest Channel / 5MHz / QPSK



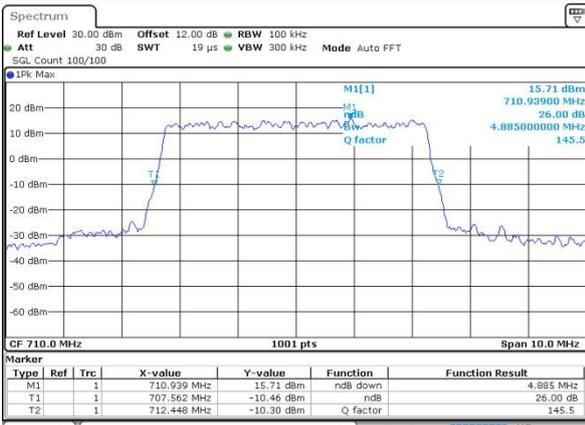
Date: 9 AUG 2015 16:32:38

Lowest Channel / 5MHz / 16QAM



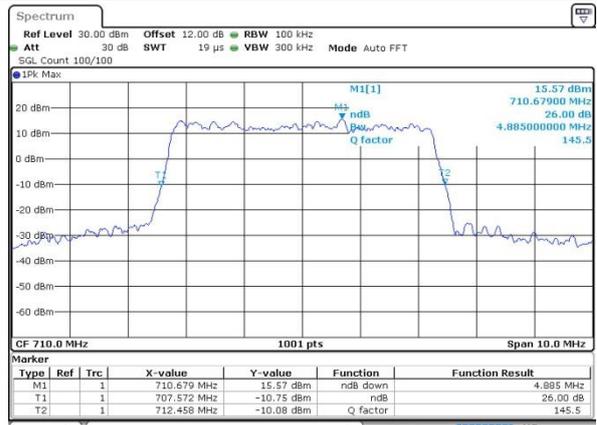
Date: 9 AUG 2015 16:32:48

Middle Channel / 5MHz / QPSK



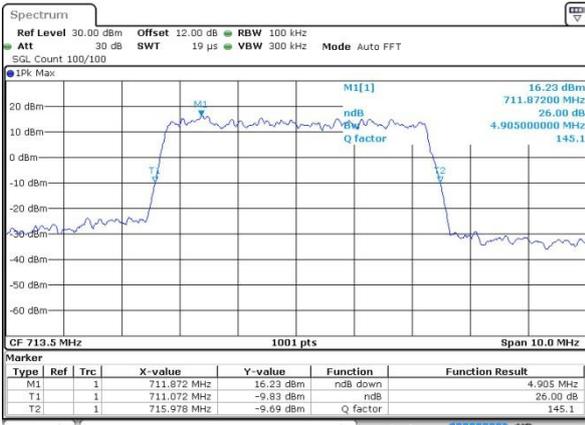
Date: 9 AUG 2015 16:42:46

Middle Channel / 5MHz / 16QAM



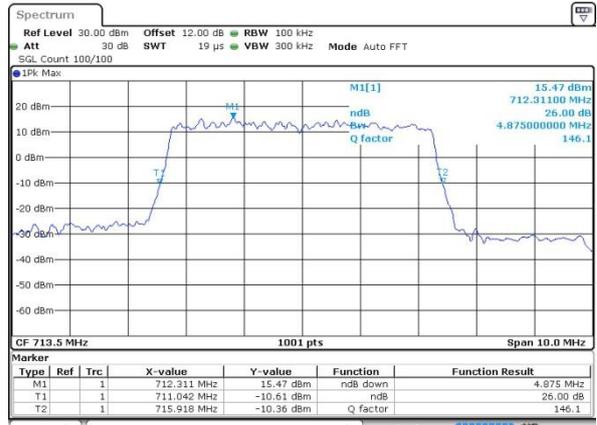
Date: 9 AUG 2015 16:42:56

Highest Channel / 5MHz / QPSK



Date: 9 AUG 2015 16:45:16

Highest Channel / 5MHz / 16QAM

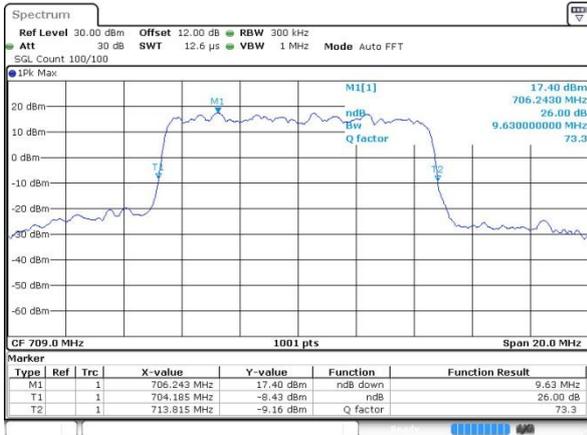


Date: 9 AUG 2015 16:45:27



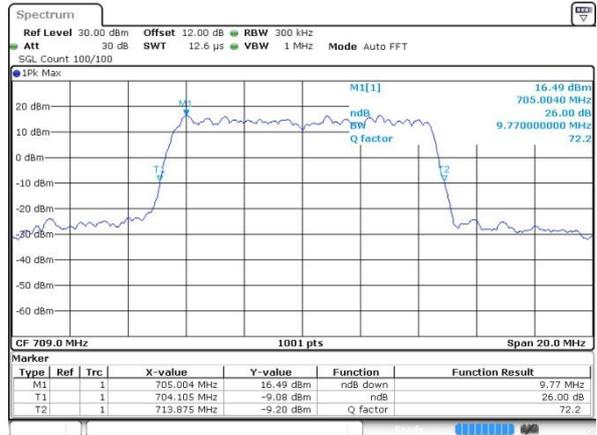
LTE Band 17

Lowest Channel / 10MHz / QPSK



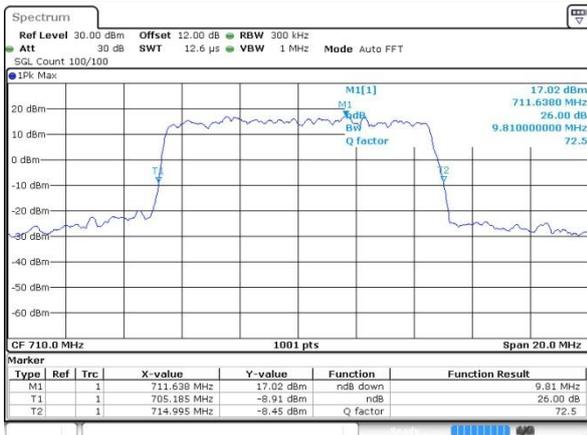
Date: 9 AUG 2015 16:55:24

Lowest Channel / 10MHz / 16QAM



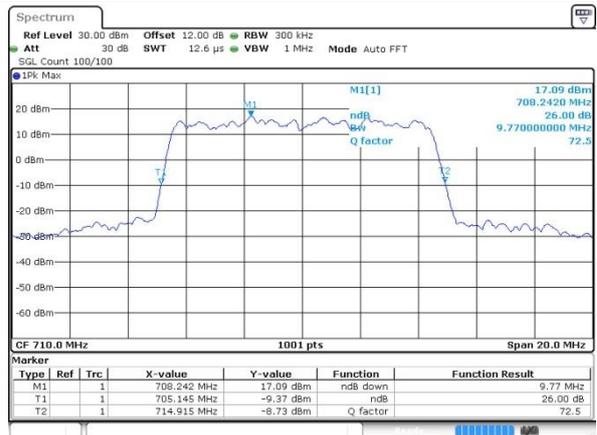
Date: 9 AUG 2015 16:55:35

Middle Channel / 10MHz / QPSK



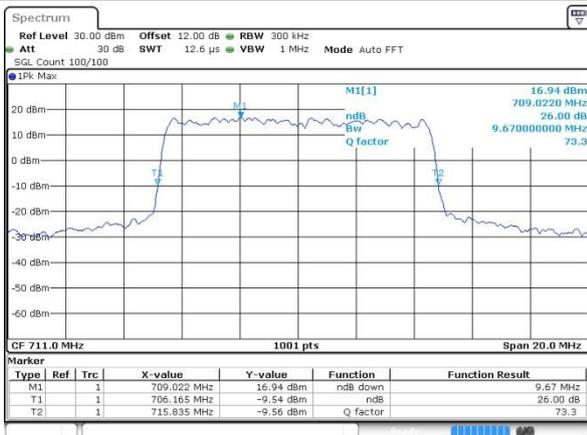
Date: 9 AUG 2015 17:05:32

Middle Channel / 10MHz / 16QAM



Date: 9 AUG 2015 17:05:43

Highest Channel / 10MHz / QPSK



Date: 9 AUG 2015 17:10:04

Highest Channel / 10MHz / 16QAM



Date: 9 AUG 2015 17:10:14



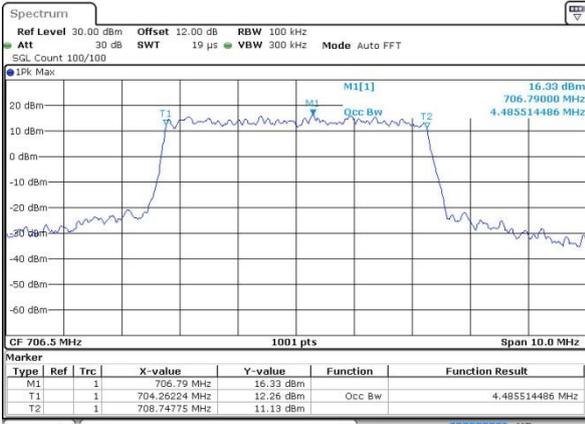
Occupied Bandwidth

| Mode | LTE Band 17 : 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 | - | - | - | - | 4.49 | 4.5 | 9.01 | 9.03 | - | - | - | - |
| Middle CH | - | - | - | - | 4.47 | 4.5 | 9.01 | 8.99 | - | - | - | - |
| Highest CH | - | - | - | - | 4.47 | 4.49 | 9.03 | 9.03 | - | - | - | - |



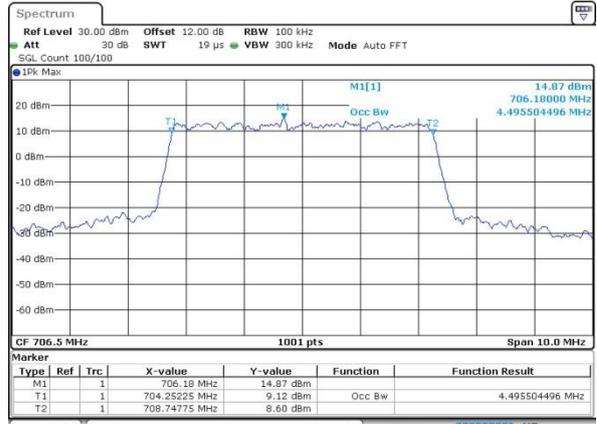
LTE Band 17

Lowest Channel / 5MHz / QPSK



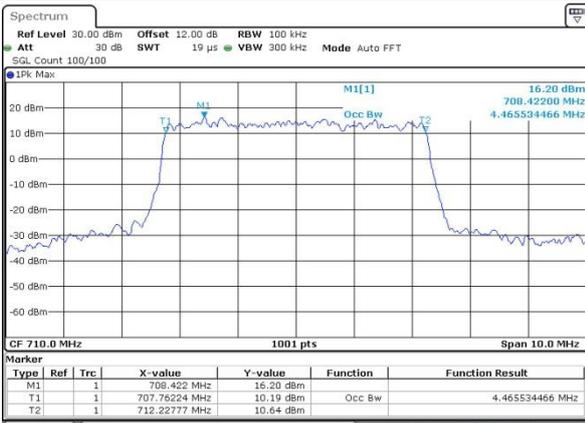
Date: 9 AUG 2015 16:32:17

Lowest Channel / 5MHz / 16QAM



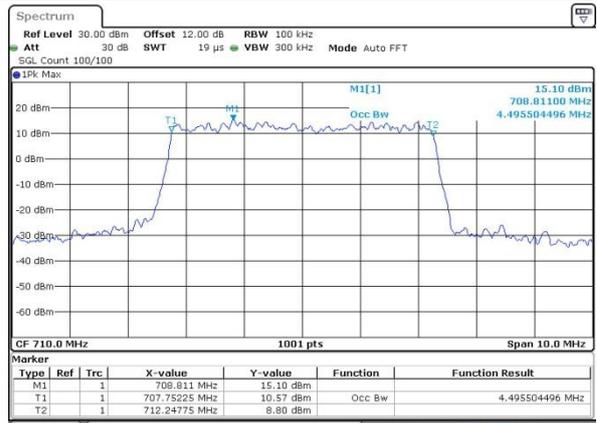
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Middle Channel / 5MHz / QPSK



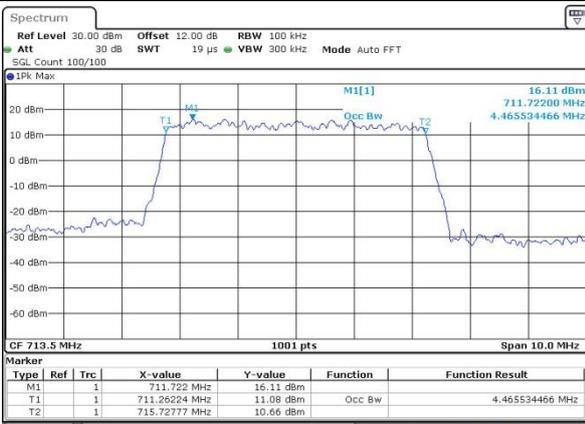
Date: 9 AUG 2015 16:42:24

Middle Channel / 5MHz / 16QAM



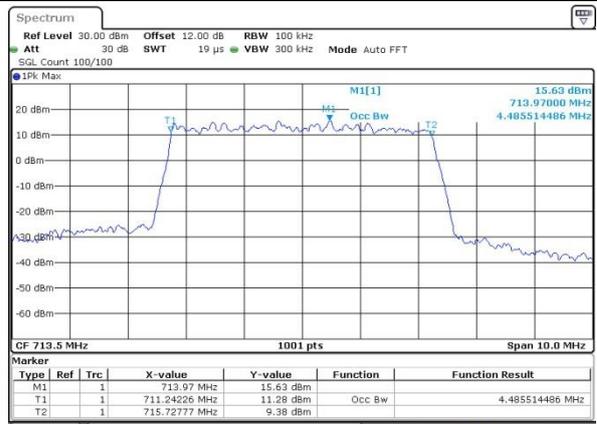
Date: 9 AUG 2015 16:42:35

Highest Channel / 5MHz / QPSK



Date: 9 AUG 2015 16:44:55

Highest Channel / 5MHz / 16QAM

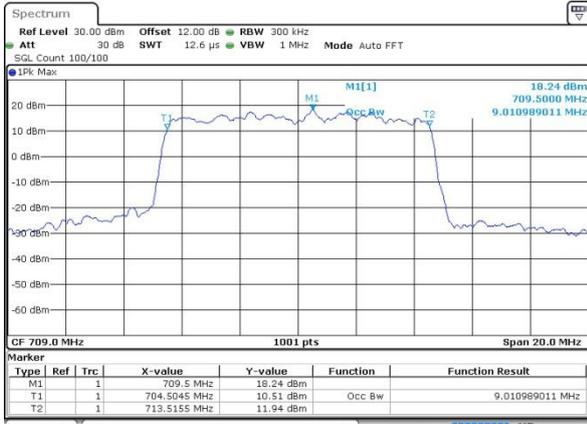


Date: 9 AUG 2015 16:45:06



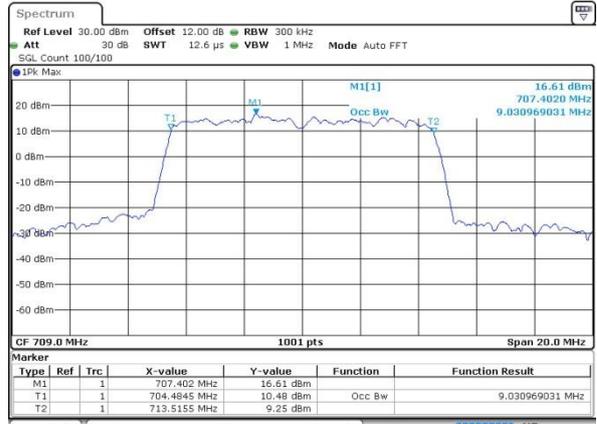
LTE Band 17

Lowest Channel / 10MHz / QPSK



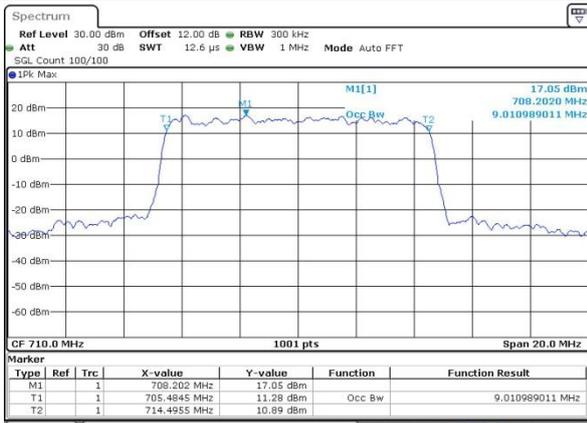
Date: 9 AUG 2015 16:55:03

Lowest Channel / 10MHz / 16QAM



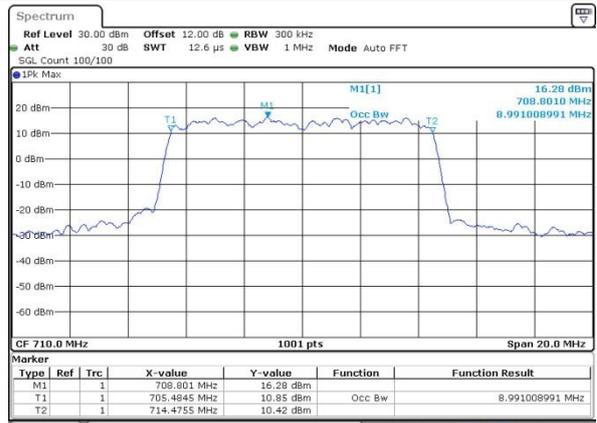
Date: 9 AUG 2015 16:55:14

Middle Channel / 10MHz / QPSK



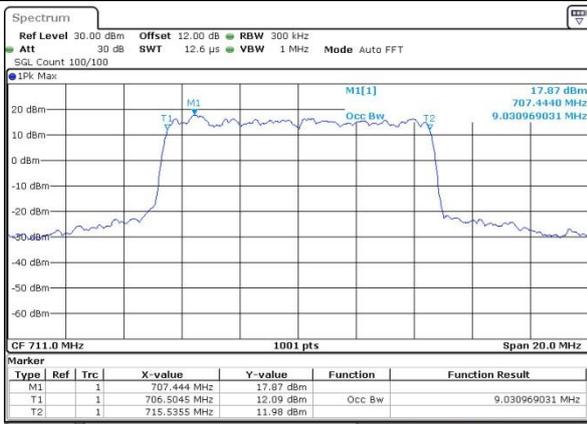
Date: 9 AUG 2015 17:05:11

Middle Channel / 10MHz / 16QAM



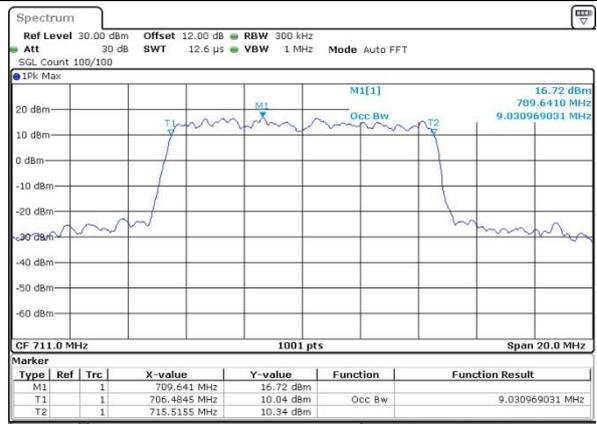
Date: 9 AUG 2015 17:05:22

Highest Channel / 10MHz / QPSK



Date: 9 AUG 2015 17:09:42

Highest Channel / 10MHz / 16QAM



Date: 9 AUG 2015 17:09:53