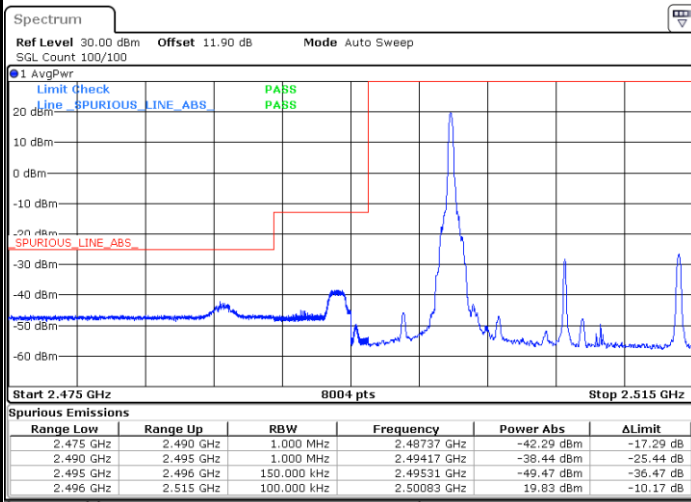




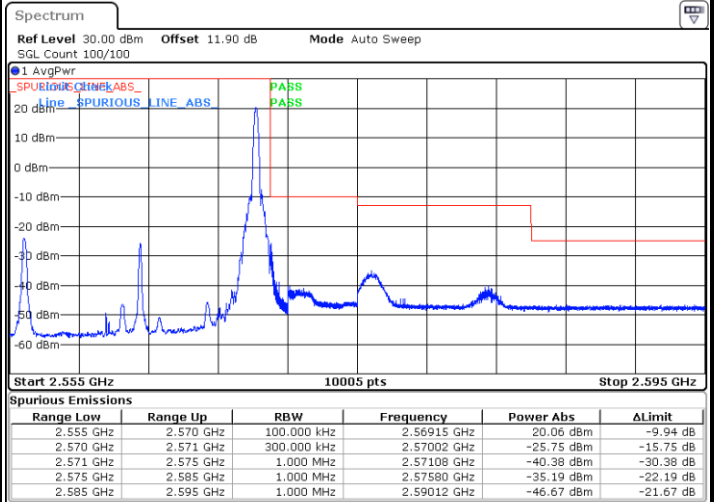
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



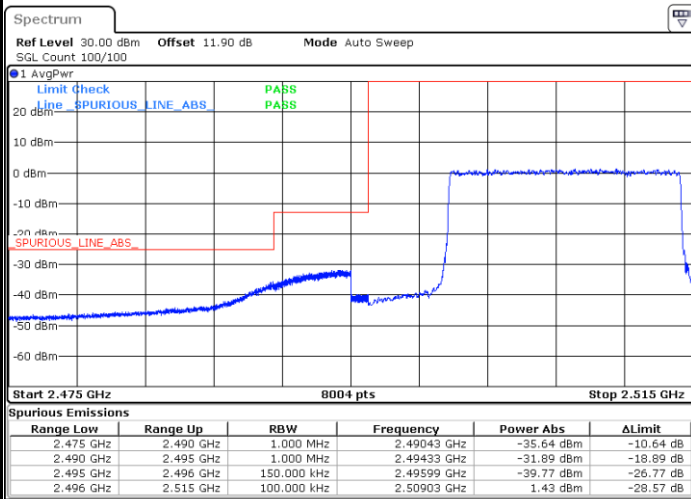
Date: 19.OCT.2017 16:45:17

Highest Band Edge / 1 RB



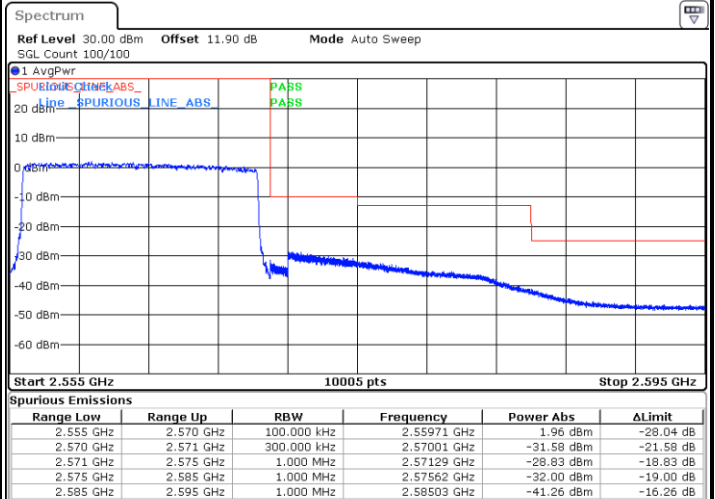
Date: 19.OCT.2017 16:50:01

Lowest Band Edge / Full RB



Date: 19.OCT.2017 16:46:26

Highest Band Edge / Full RB

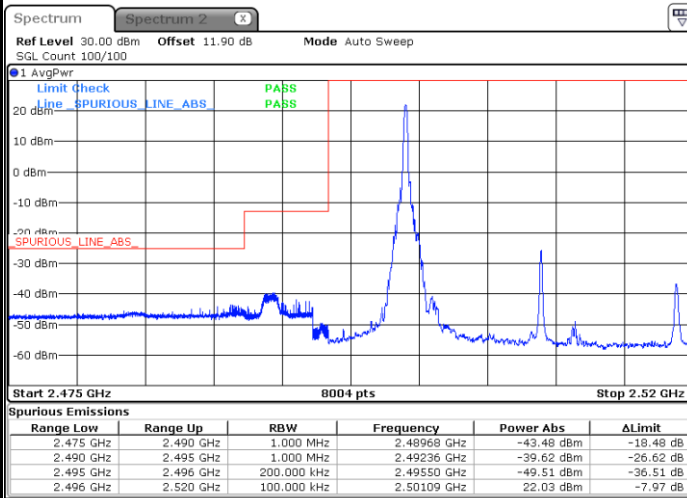


Date: 19.OCT.2017 16:51:11



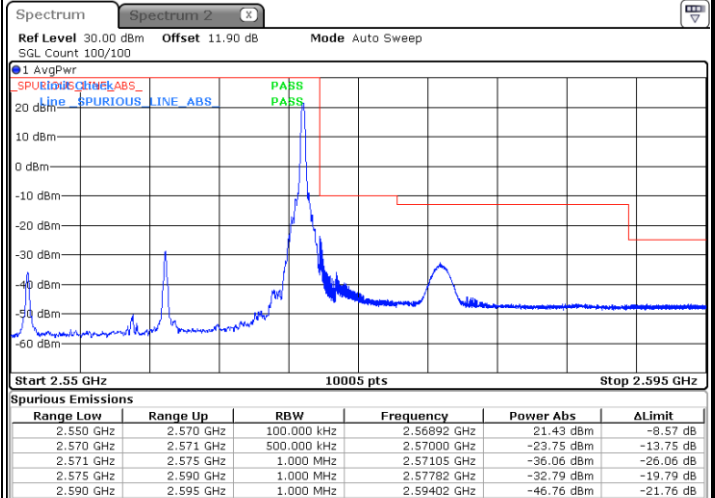
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



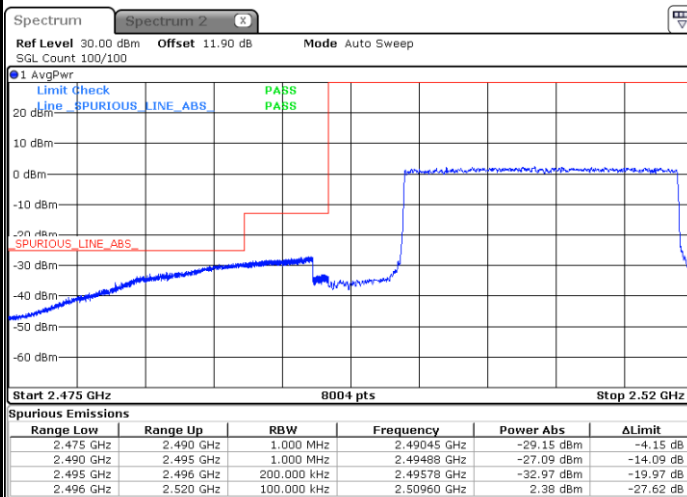
Date: 24 AUG 2017 14:18:22

Highest Band Edge / 1 RB



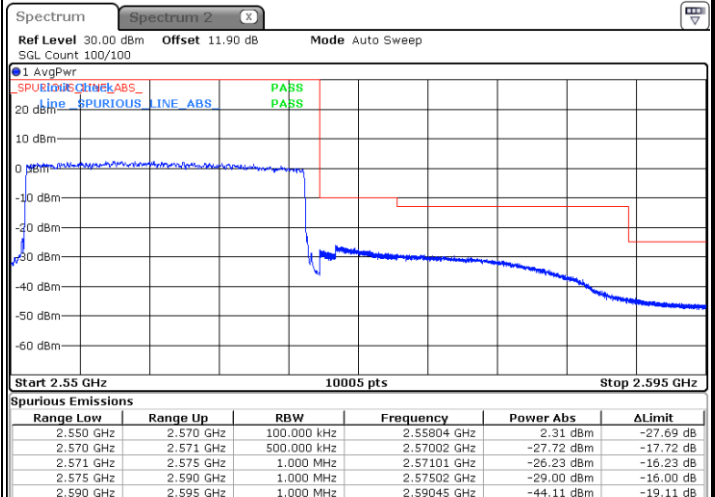
Date: 24 AUG 2017 14:27:52

Lowest Band Edge / Full RB



Date: 24 AUG 2017 14:20:40

Highest Band Edge / Full RB

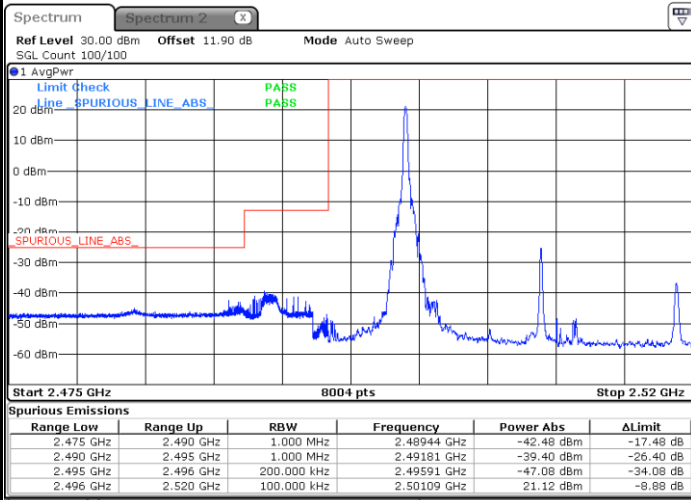


Date: 24 AUG 2017 14:31:20



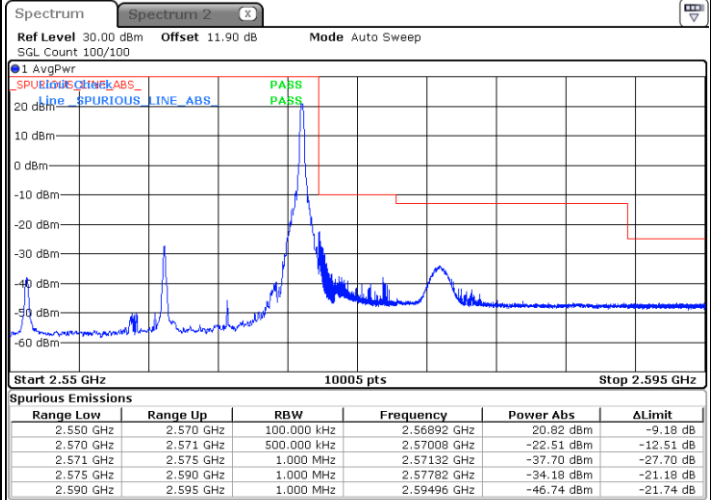
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



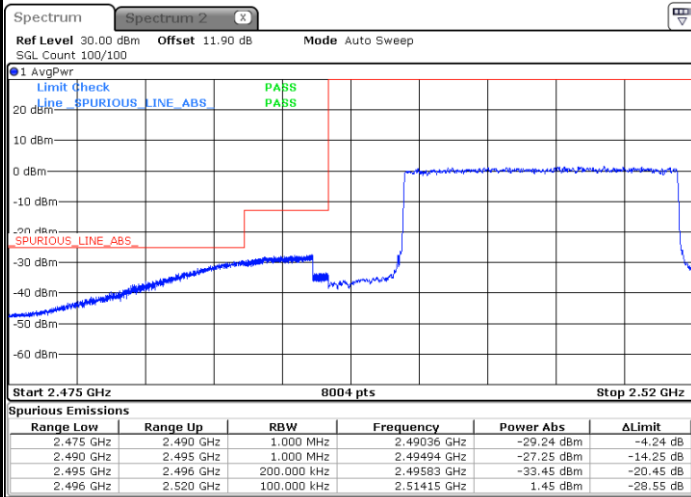
Date: 24 AUG 2017 14:19:31

Highest Band Edge / 1RB



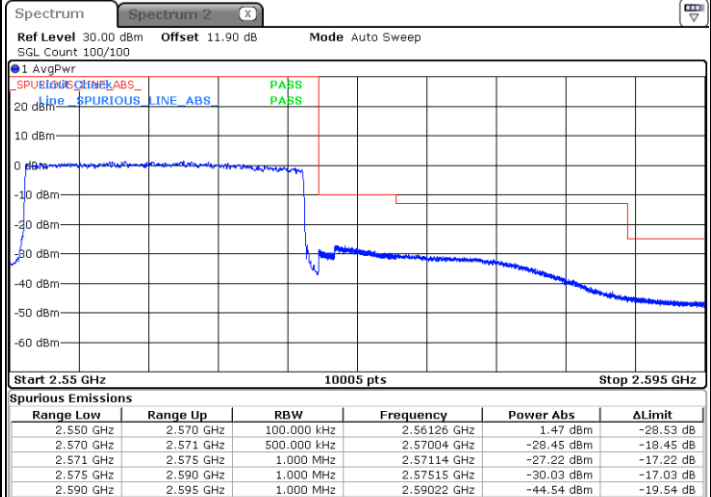
Date: 24 AUG 2017 14:29:01

Lowest Band Edge / Full RB



Date: 24 AUG 2017 14:21:49

Highest Band Edge / Full RB

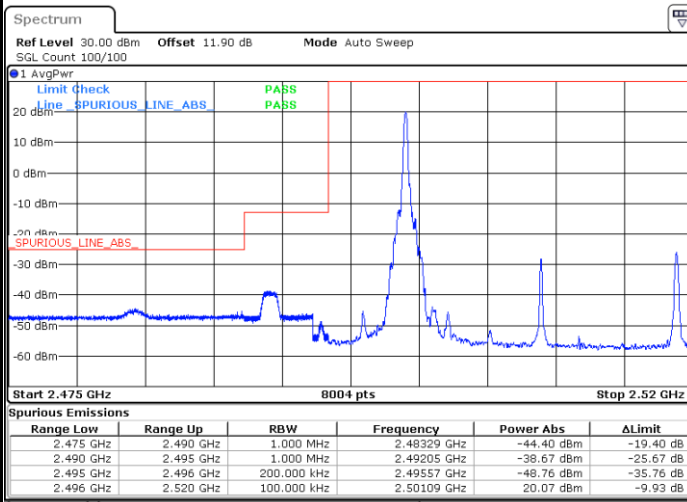


Date: 24 AUG 2017 14:30:10



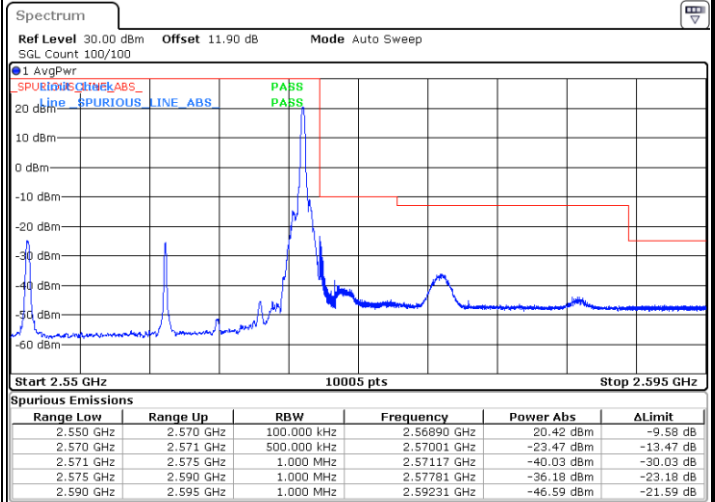
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



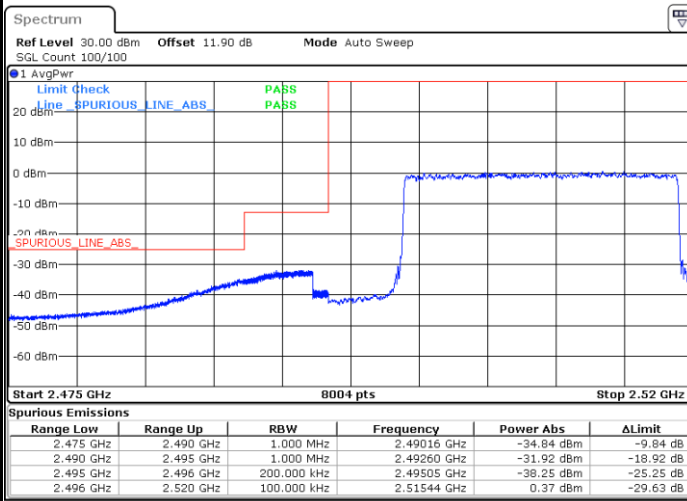
Date: 19.OCT.2017 16:53:34

Highest Band Edge / 1 RB



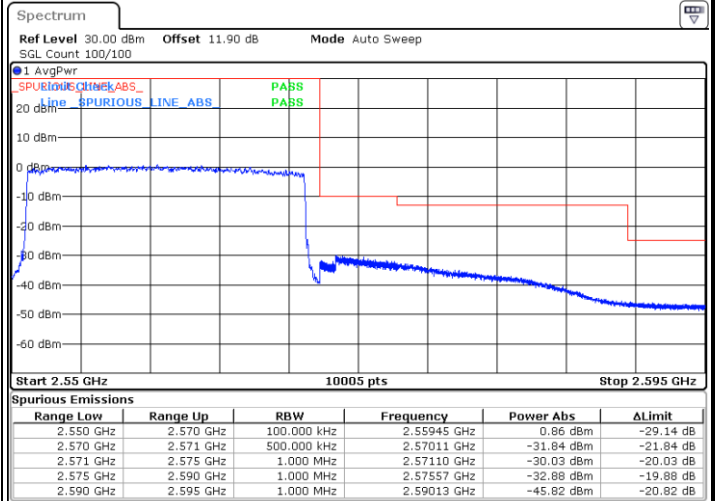
Date: 19.OCT.2017 16:58:19

Lowest Band Edge / Full RB



Date: 19.OCT.2017 16:54:43

Highest Band Edge / Full RB



Date: 19.OCT.2017 16:59:28



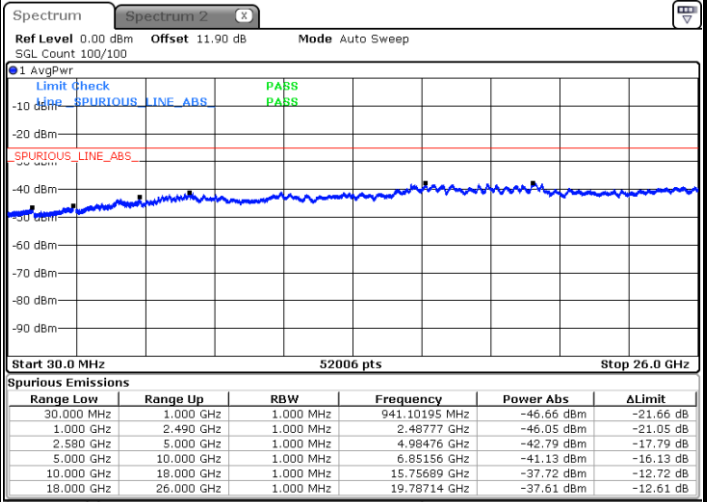
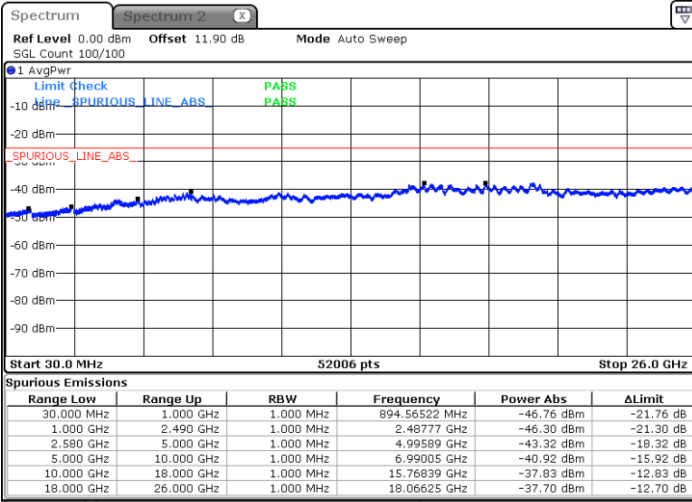
Conducted Spurious Emission



LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

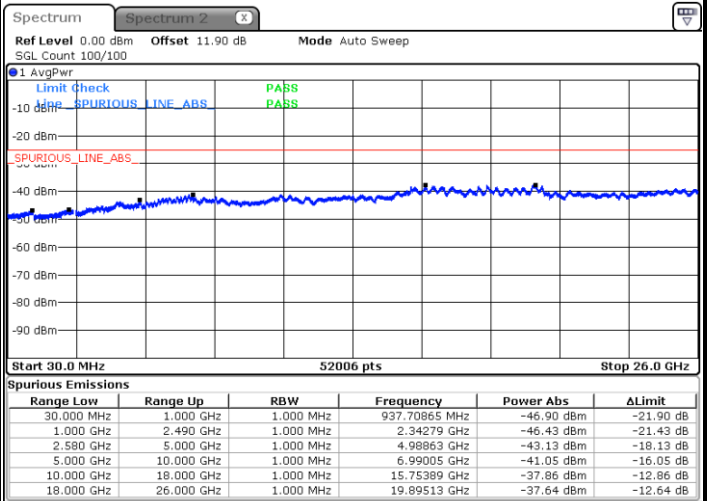
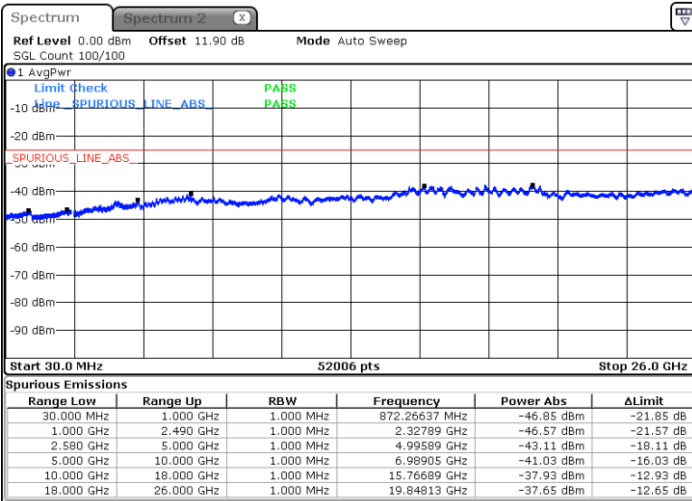


Date: 24 AUG.2017 11:33:20

Date: 24.AUG.2017 11:34:14

Middle Channel / QPSK

Middle Channel / 16QAM



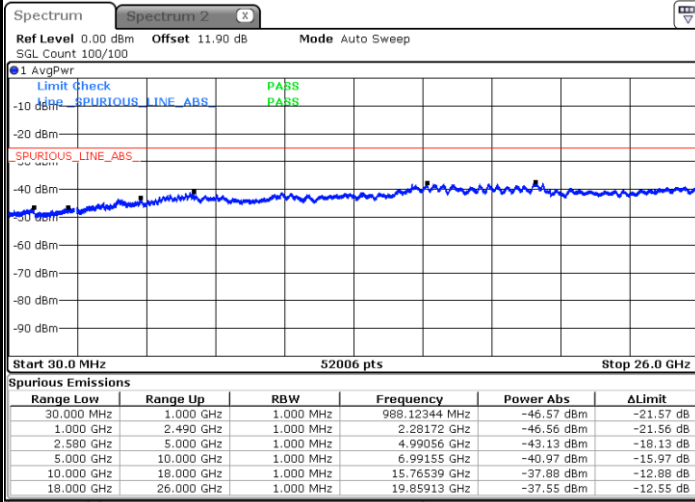
Date: 24 AUG.2017 11:35:47

Date: 24.AUG.2017 11:36:40



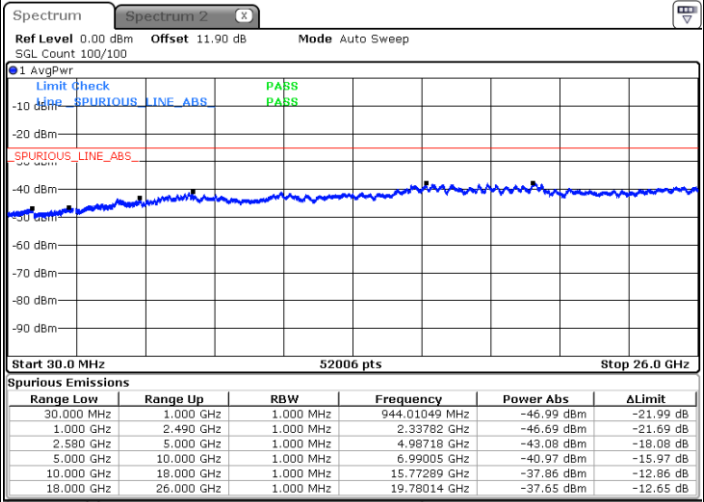
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 24 AUG. 2017 13:41:03

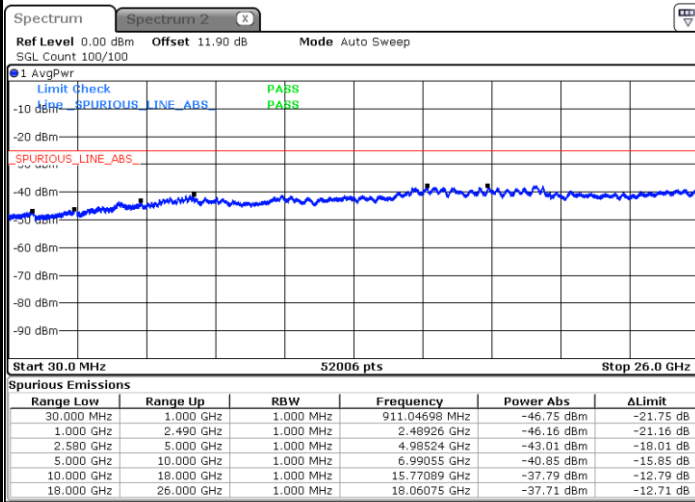
Highest Channel / 16QAM



Date: 24 AUG. 2017 13:41:56

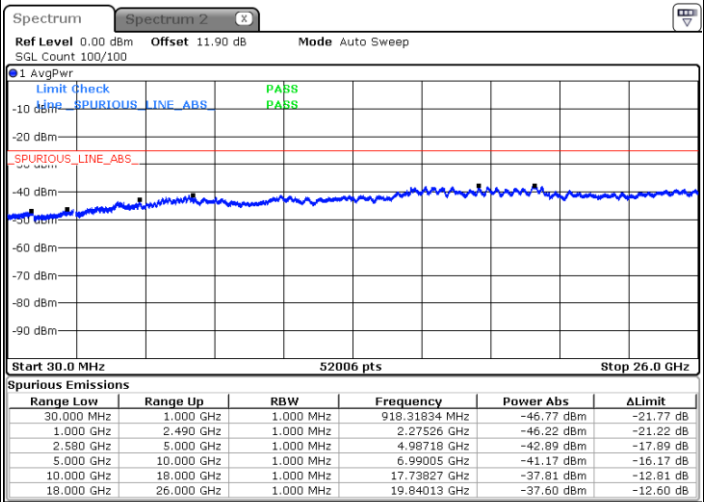
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 24 AUG. 2017 13:48:06

Lowest Channel / 16QAM



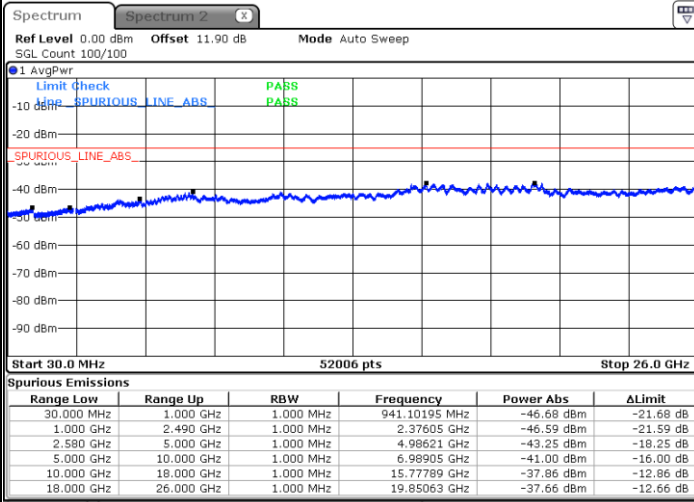
Date: 24 AUG. 2017 13:48:59



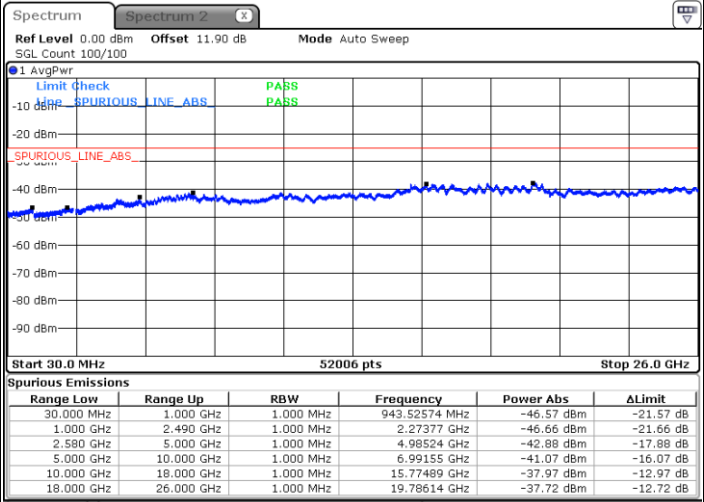
LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



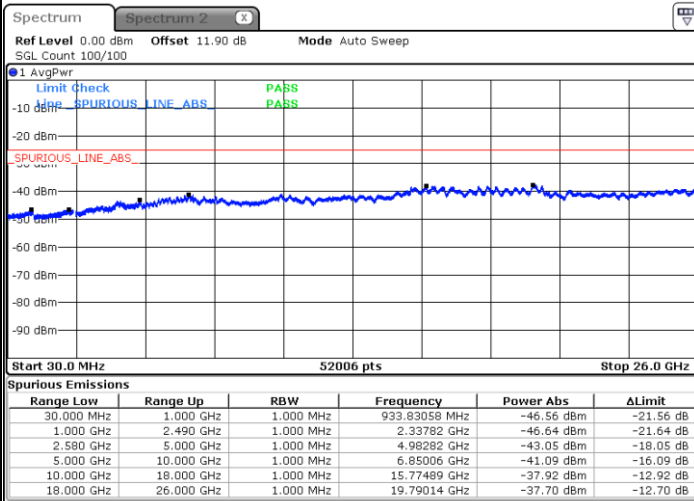
Date: 24 AUG.2017 13:50:33



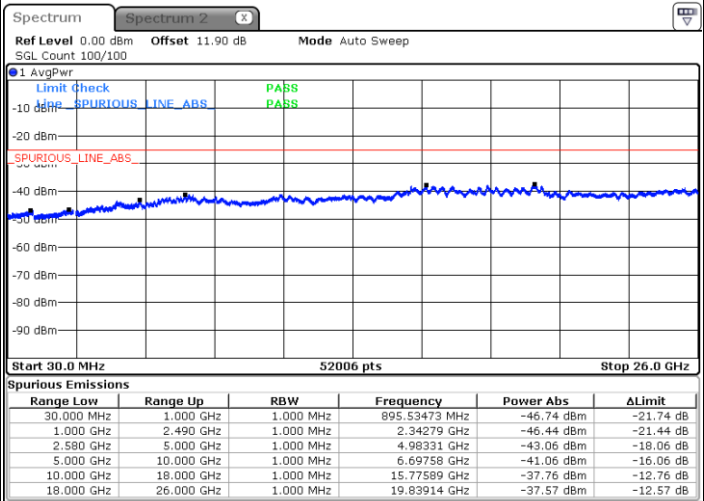
Date: 24 AUG.2017 13:51:26

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 AUG.2017 13:57:37



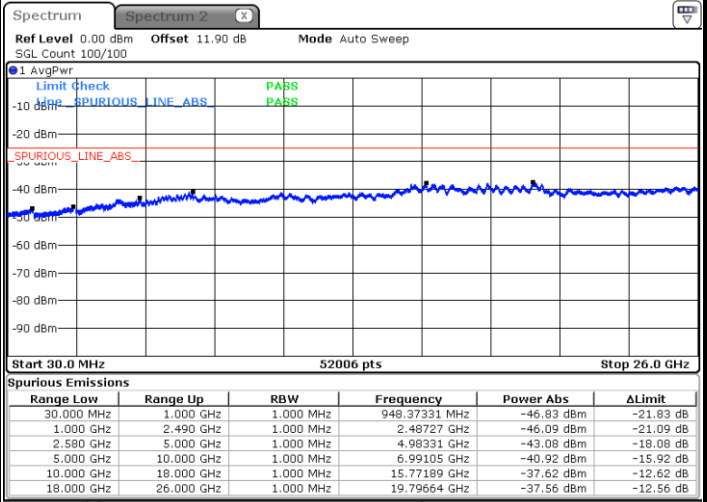
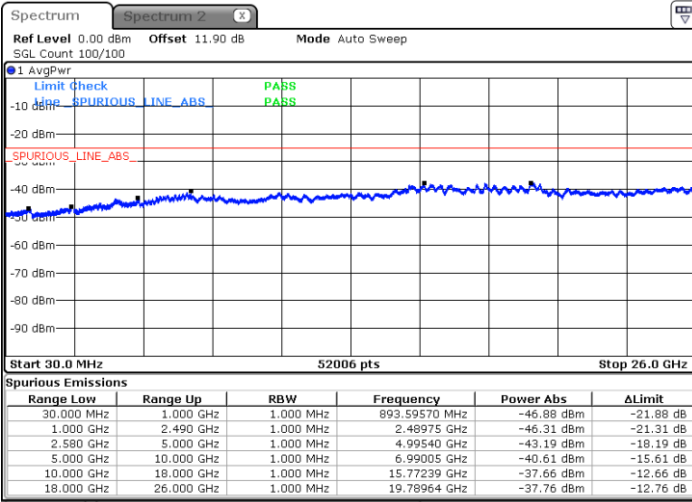
Date: 24 AUG.2017 13:58:30



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

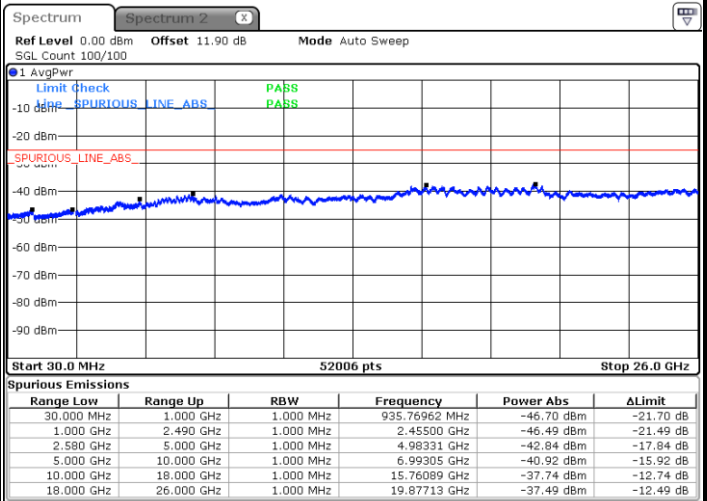
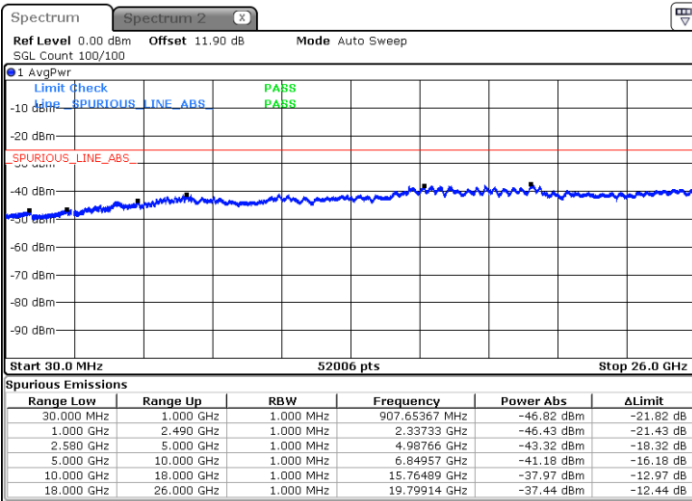


Date: 24 AUG.2017 14:04:40

Date: 24.AUG.2017 14:05:33

Middle Channel / QPSK

Middle Channel / 16QAM



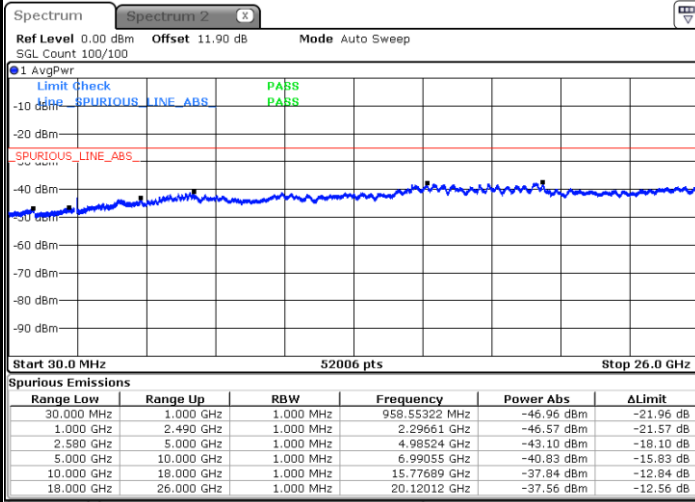
Date: 24 AUG.2017 14:07:07

Date: 24.AUG.2017 14:08:00



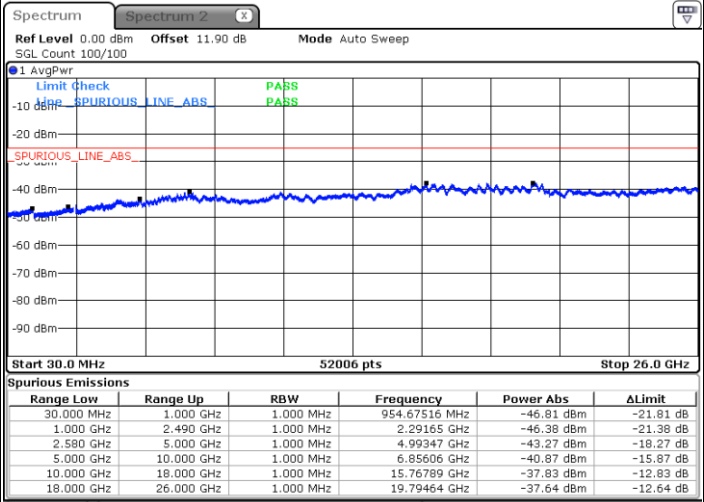
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 24 AUG 2017 14:15:40

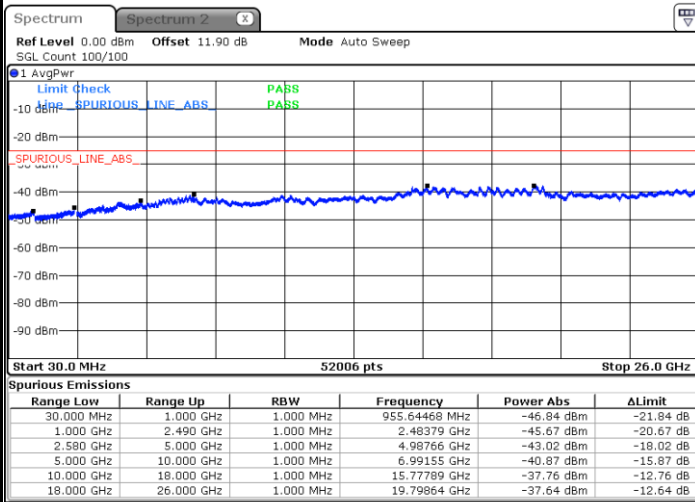
Highest Channel / 16QAM



Date: 24 AUG 2017 14:16:33

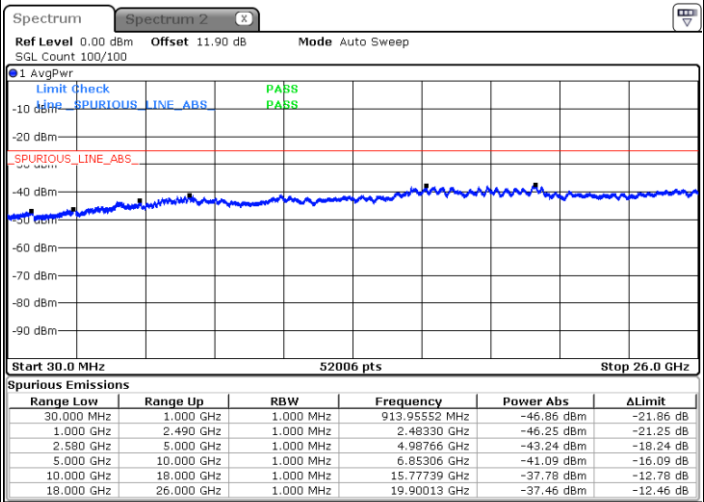
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 24 AUG 2017 14:22:43

Lowest Channel / 16QAM



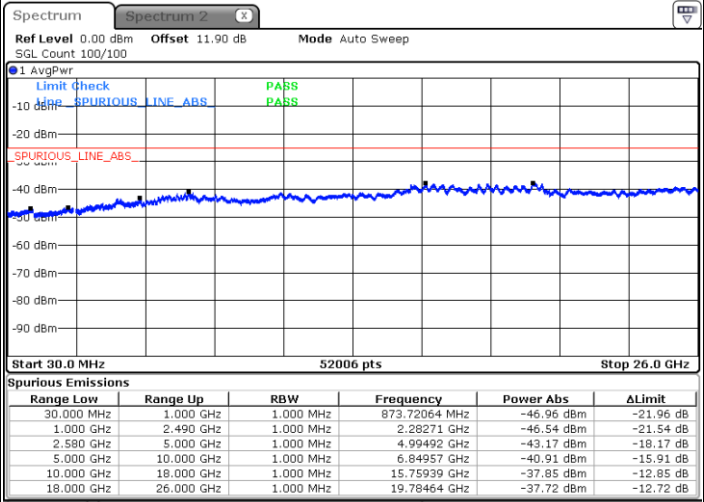
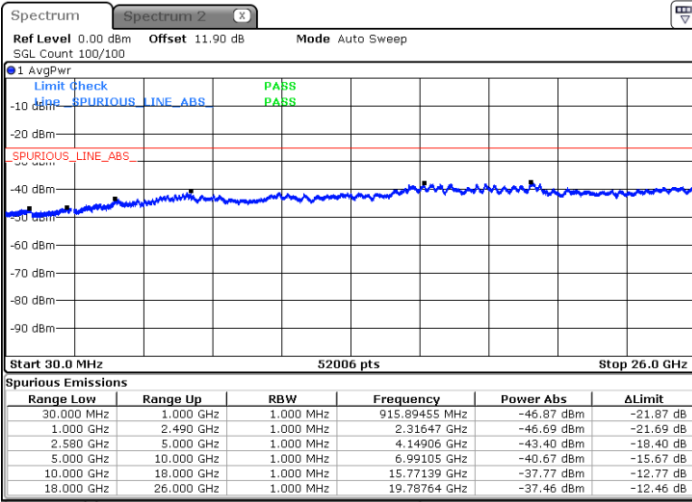
Date: 24 AUG 2017 14:23:36



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

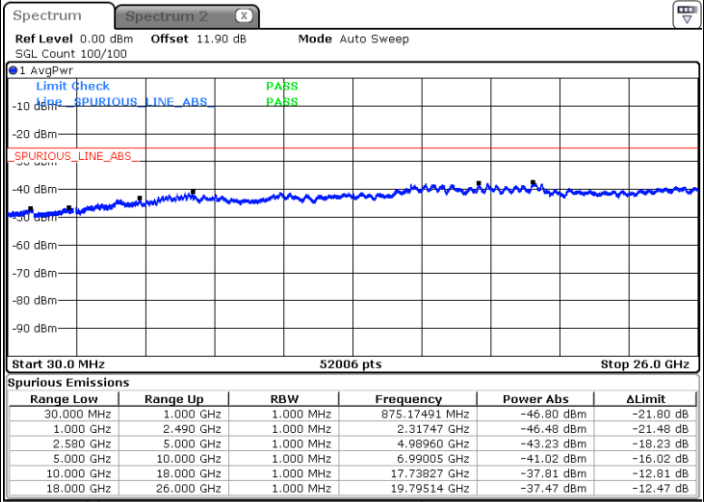
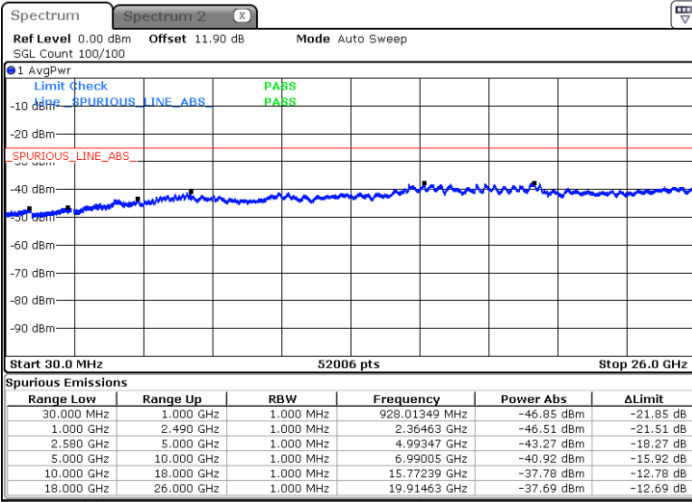


Date: 24 AUG.2017 14:25:10

Date: 24.AUG.2017 14:26:03

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 AUG.2017 14:32:13

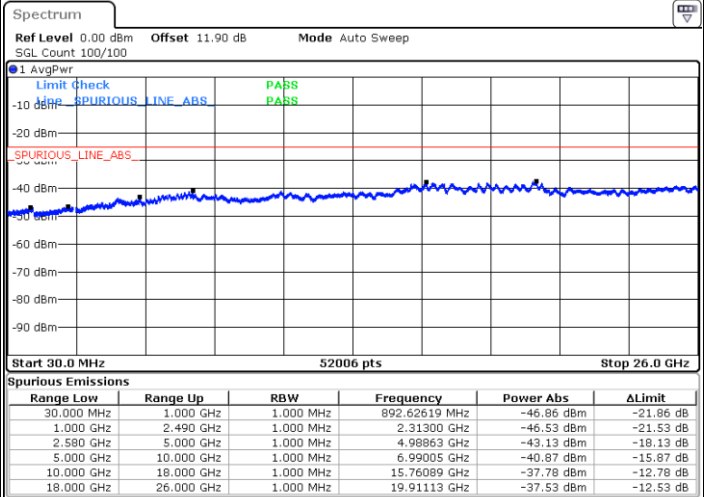
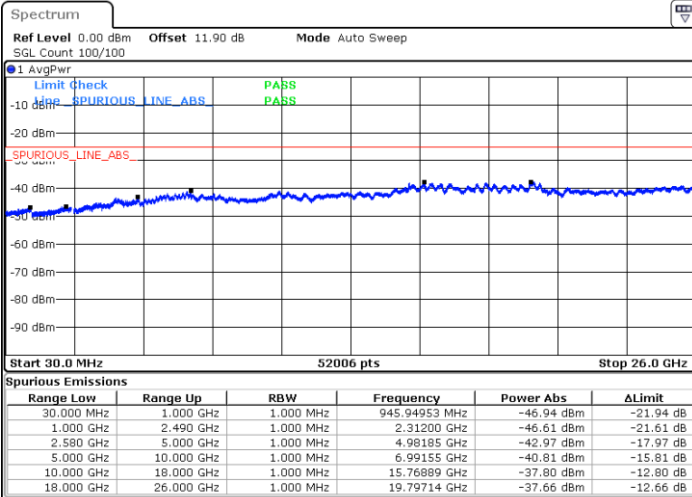
Date: 24.AUG.2017 14:34:08



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

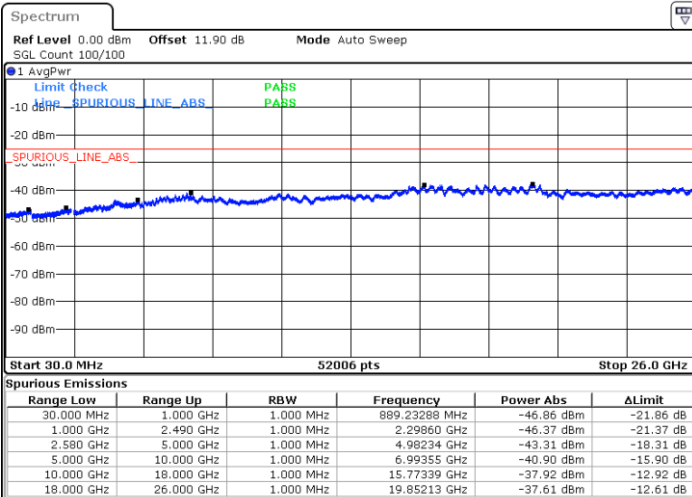
Middle Channel / 64QAM



Date: 19.OCT.2017 16:30:45

Date: 19.OCT.2017 16:31:59

Highest Channel / 64QAM



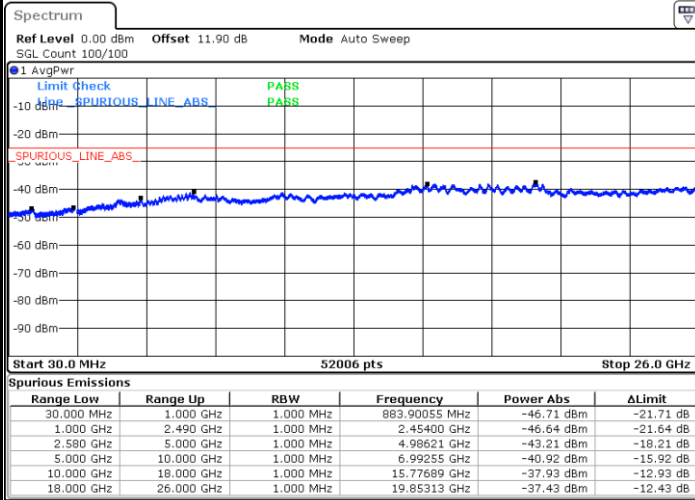
Date: 19.OCT.2017 16:35:31



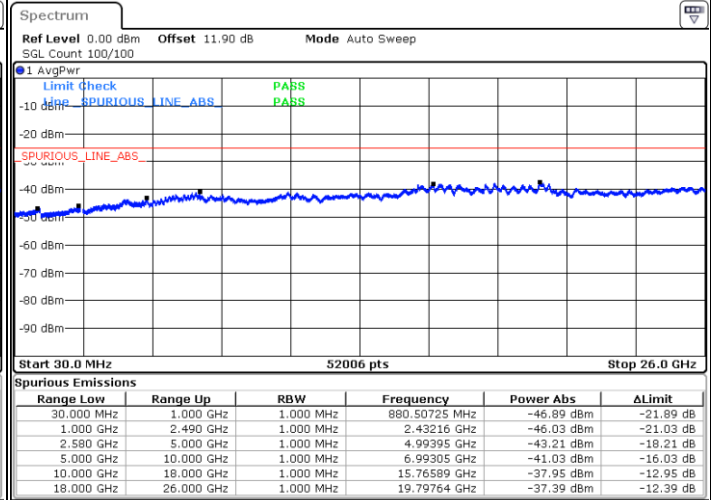
LTE Band 7 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

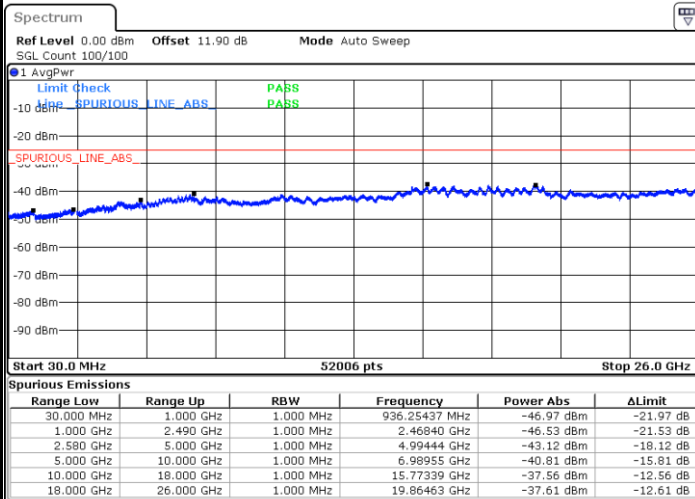


Date: 19.OCT.2017 16:39:02



Date: 19.OCT.2017 16:40:16

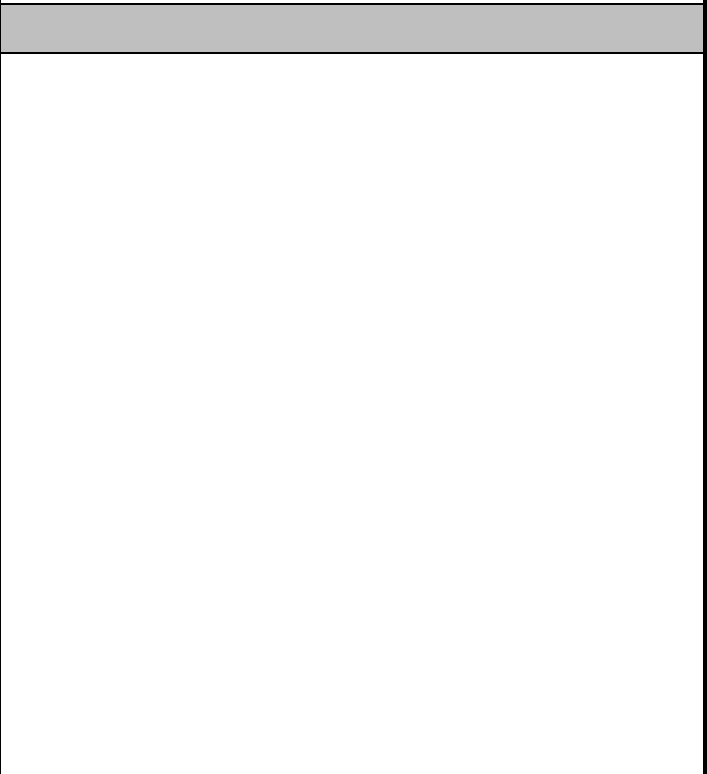
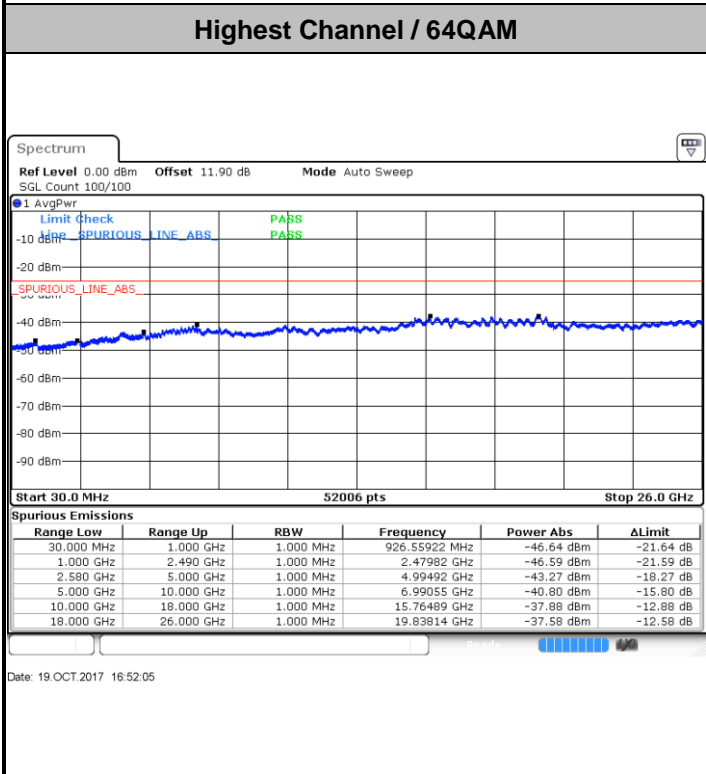
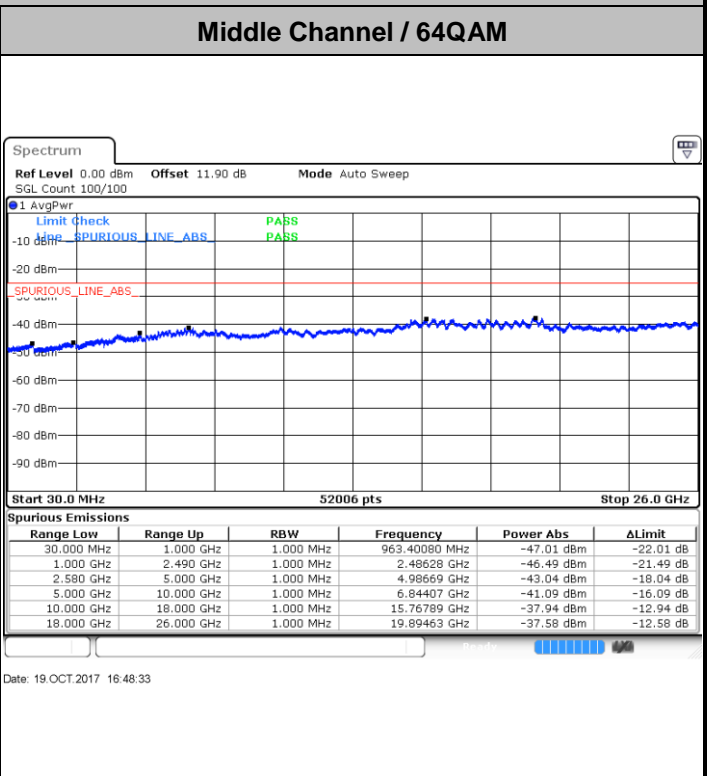
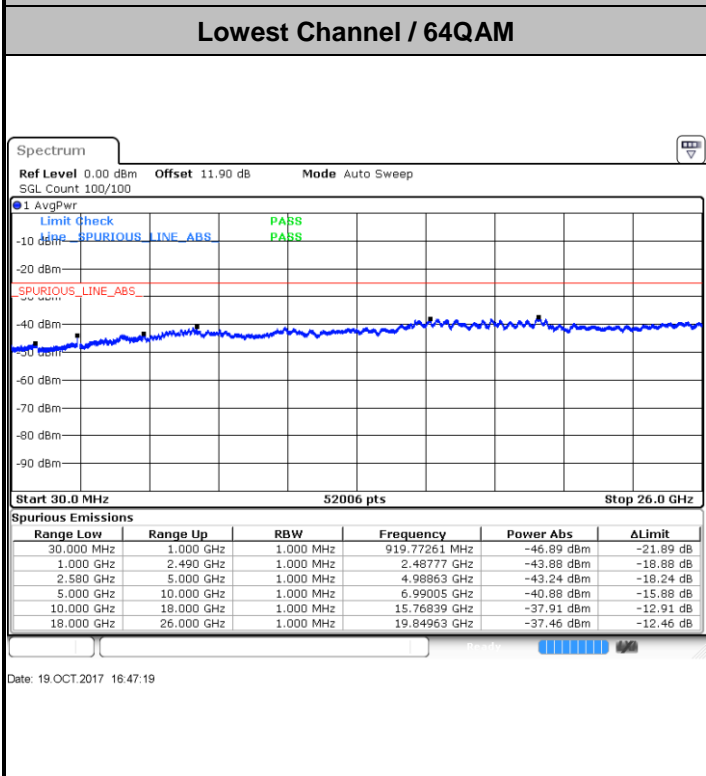
Highest Channel / 64QAM



Date: 19.OCT.2017 16:43:48



LTE Band 7 / 15MHz

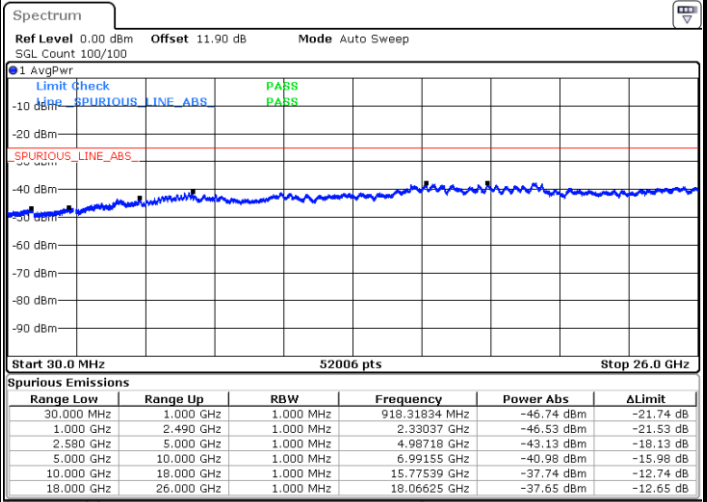
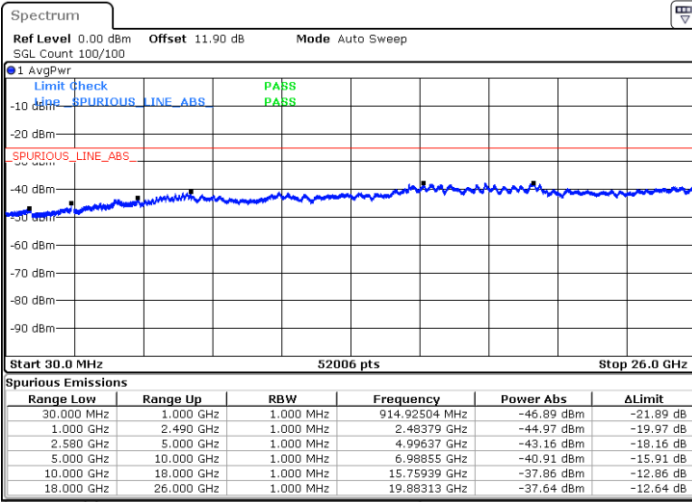




LTE Band 7 / 20MHz

Lowest Channel / 64QAM

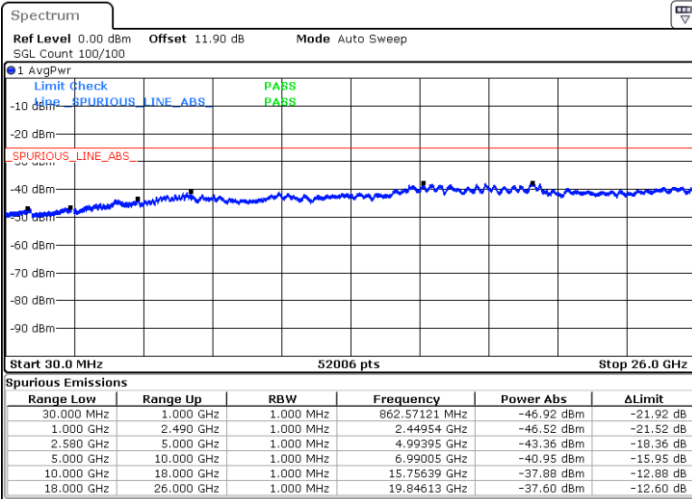
Middle Channel / 64QAM



Date: 19.OCT.2017 16:55:37

Date: 19.OCT.2017 16:56:50

Highest Channel / 64QAM



Date: 19.OCT.2017 17:00:22



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 | 0.0003 | PASS |
| 40 | Normal Voltage | 0.0086 | |
| 30 | Normal Voltage | 0.0003 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0001 | |
| 0 | Normal Voltage | 0.0005 | |
| -10 | Normal Voltage | 0.0088 | |
| -20 | Normal Voltage | 0.0085 | |
| -30 | Normal Voltage | 0.0006 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0006 | |

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

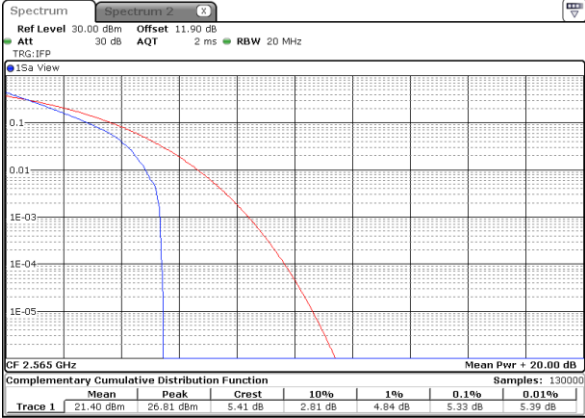
Peak-to-Average Ratio

| Mode | LTE Band 41 / 20MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 5.33 | 5.54 | 6.06 | 6.52 | PASS |
| Middle CH | 5.59 | 5.57 | 6.35 | 6.64 | |
| Highest CH | 5.25 | 5.71 | 6.26 | 6.67 | |
| Mode | LTE Band 41 / 20MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 6.81 | 6.46 | - | - | PASS |
| Middle CH | 6.7 | 6.49 | - | - | |
| Highest CH | 6.55 | 6.84 | - | - | |



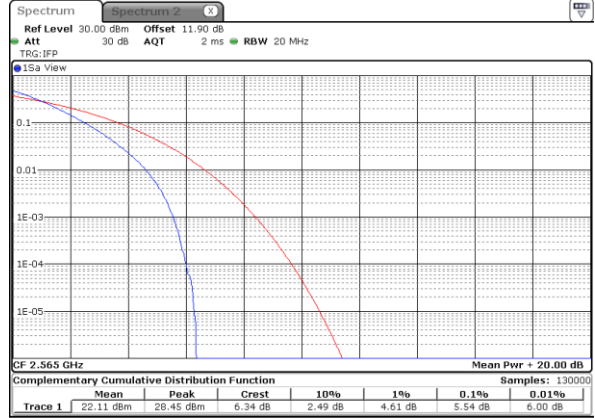
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



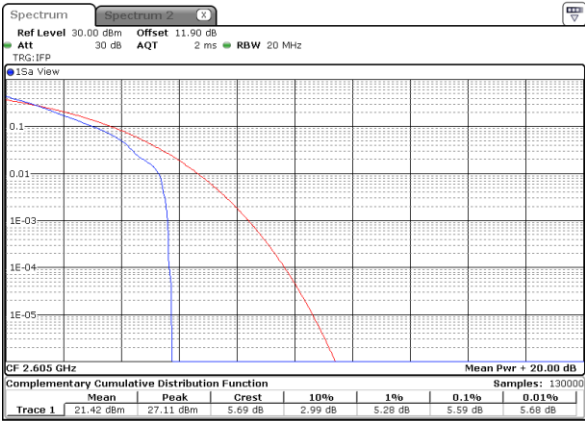
Date: 24 AUG 2017 15:39:43

Lowest Channel / Full RB



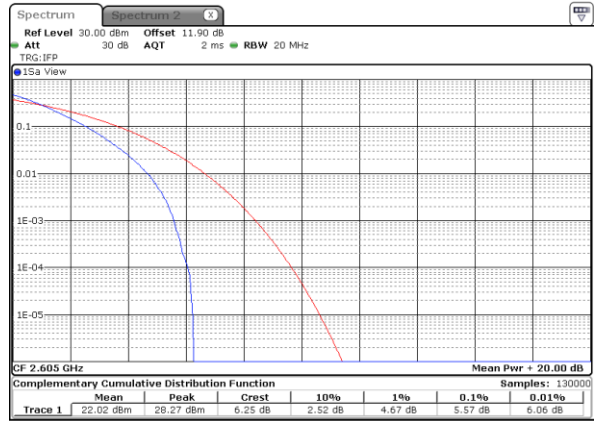
Date: 24 AUG 2017 15:39:57

Middle Channel / 1RB



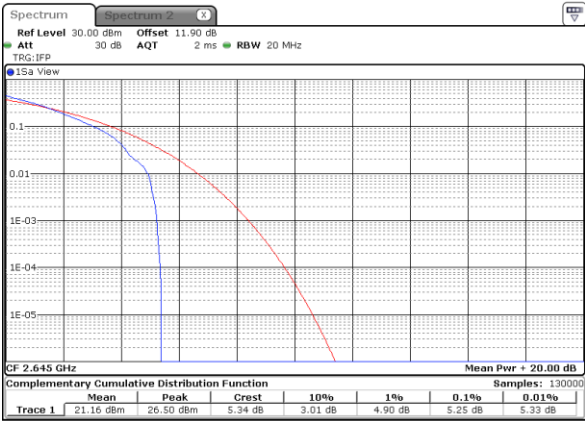
Date: 24 AUG 2017 15:40:14

Middle Channel / Full RB



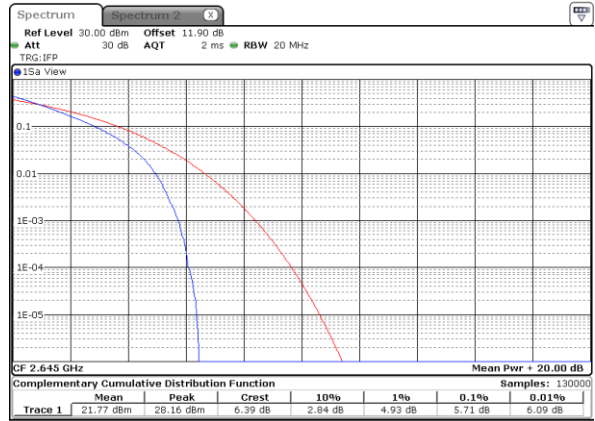
Date: 24 AUG 2017 15:40:28

Highest Channel / 1RB



Date: 24 AUG 2017 15:40:42

Highest Channel / Full RB

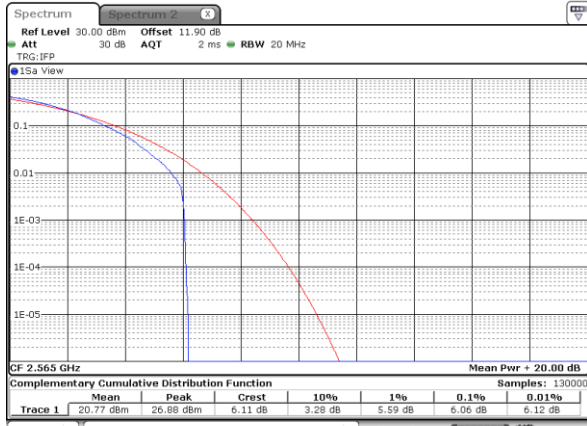


Date: 24 AUG 2017 15:40:55



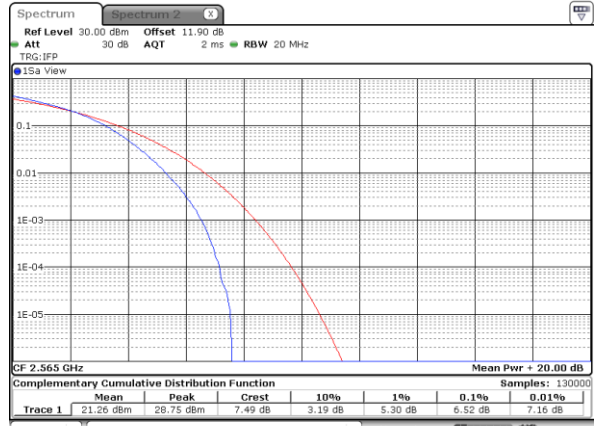
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



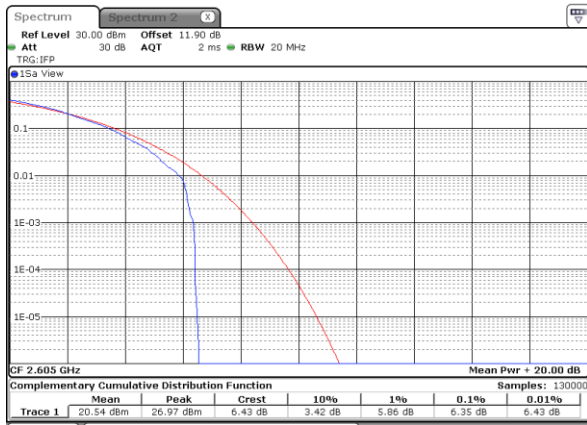
Date: 24 AUG 2017 15:41:20

Lowest Channel / Full RB



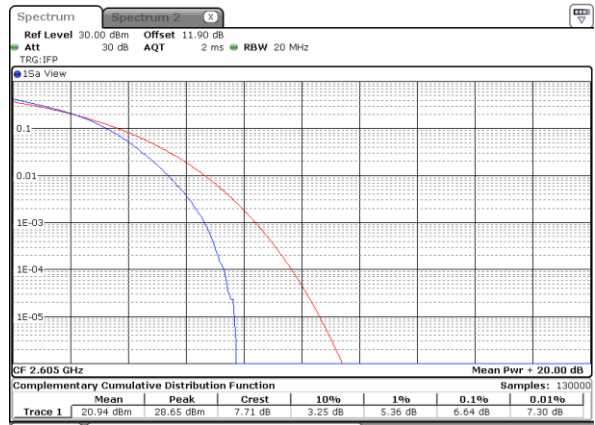
Date: 24 AUG 2017 15:38:28

Middle Channel / 1RB



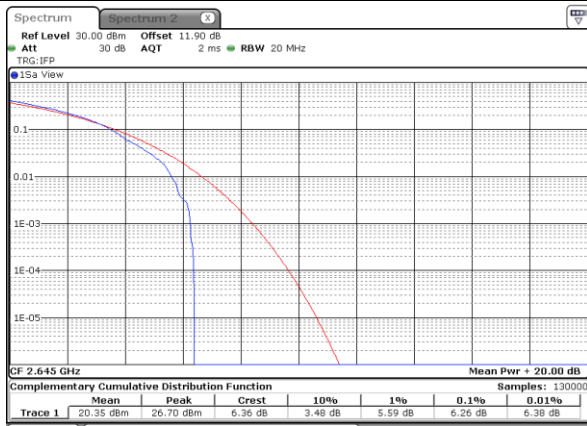
Date: 24 AUG 2017 15:38:46

Middle Channel / Full RB



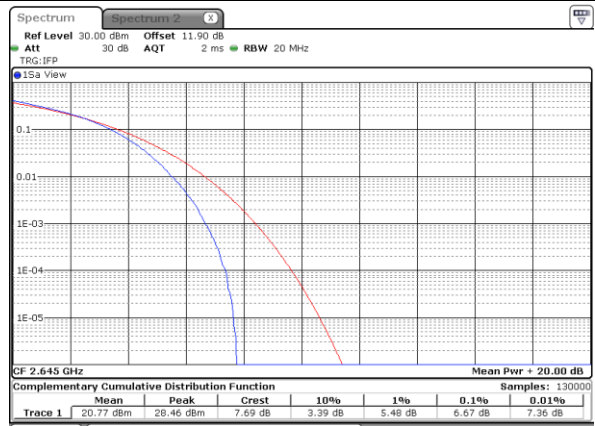
Date: 24 AUG 2017 15:39:00

Highest Channel / 1RB



Date: 24 AUG 2017 15:39:15

Highest Channel / Full RB

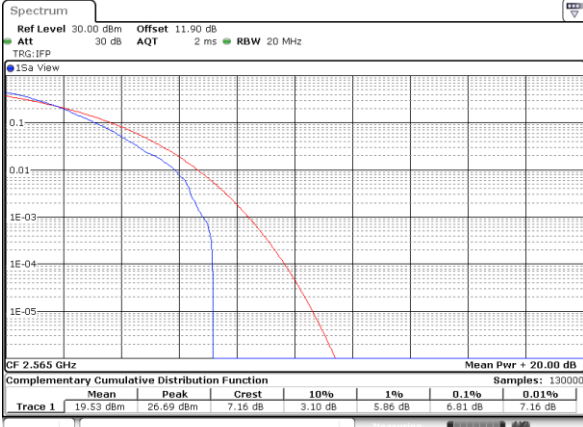


Date: 24 AUG 2017 15:39:29



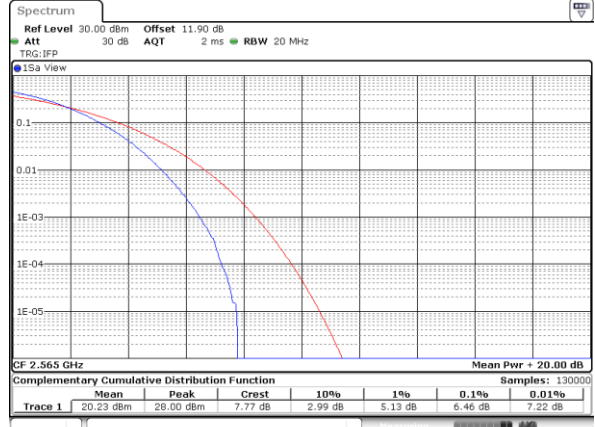
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



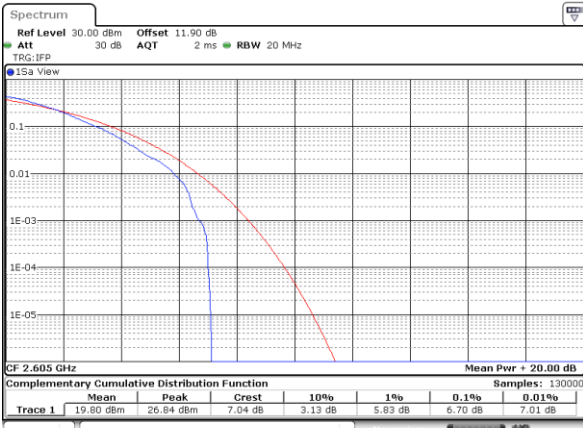
Date: 19.OCT.2017 17:12:47

Lowest Channel / Full RB



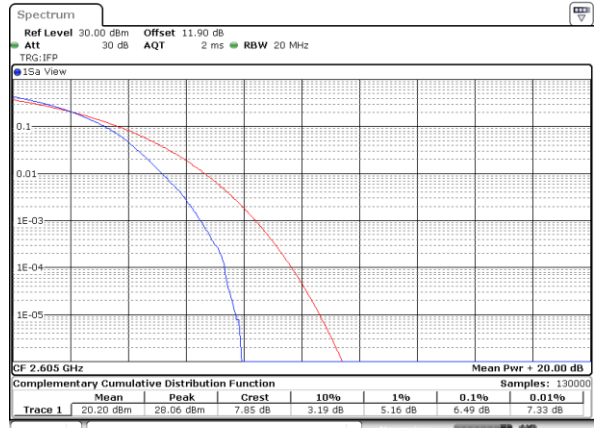
Date: 19.OCT.2017 17:11:14

Middle Channel / 1RB



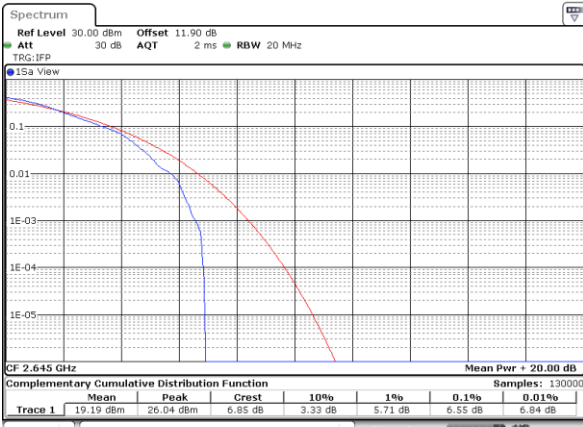
Date: 19.OCT.2017 17:11:28

Middle Channel / Full RB



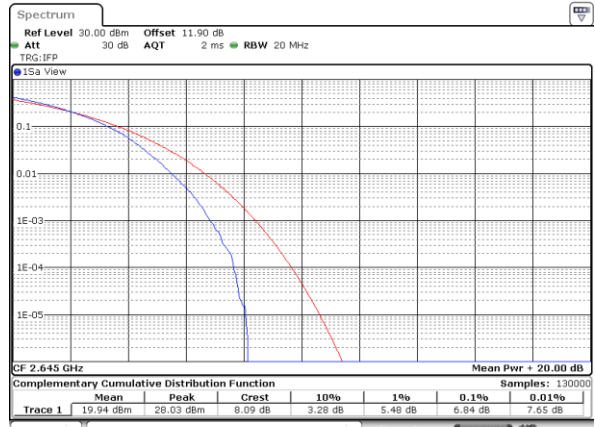
Date: 19.OCT.2017 17:11:47

Highest Channel / 1RB



Date: 19.OCT.2017 17:12:08

Highest Channel / Full RB



Date: 19.OCT.2017 17:12:22



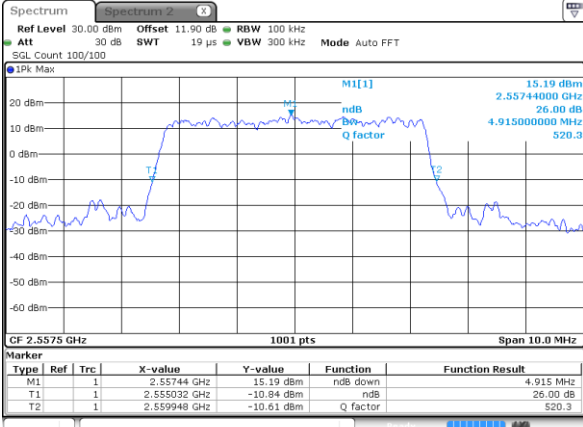
26dB Bandwidth

| Mode | LTE Band 41 : 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 | - | - | - | - | 4.92 | 4.88 | 9.79 | 9.65 | 14.27 | 14.24 | 20.06 | 19.98 |
| Middle CH | - | - | - | - | 4.93 | 4.78 | 9.63 | 9.65 | 14.39 | 14.30 | 20.02 | 20.10 |
| Highest CH | - | - | - | - | 4.72 | 4.75 | 9.69 | 9.69 | 14.21 | 14.15 | 20.30 | 20.14 |
| Mode | LTE Band 41 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.85 | - | 9.63 | - | 14.21 | - | 20.1 | - |
| Middle CH | - | - | - | - | 4.86 | - | 10.01 | - | 14.30 | - | 20.34 | - |
| Highest CH | - | - | - | - | 4.84 | - | 9.69 | - | 14.27 | - | 20.34 | - |



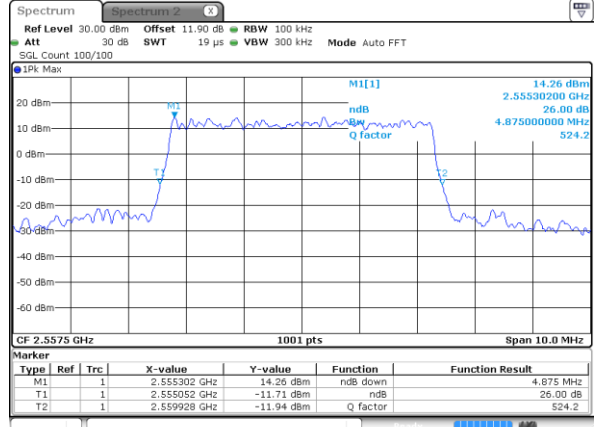
LTE Band 41

Lowest Channel / 5MHz / QPSK



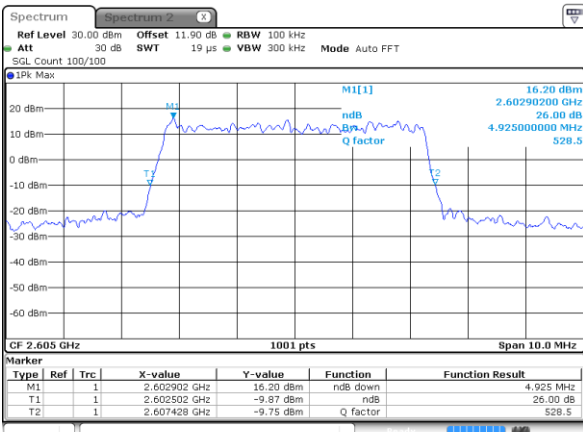
Date: 24 AUG 2017 15:29:49

Lowest Channel / 5MHz / 16QAM



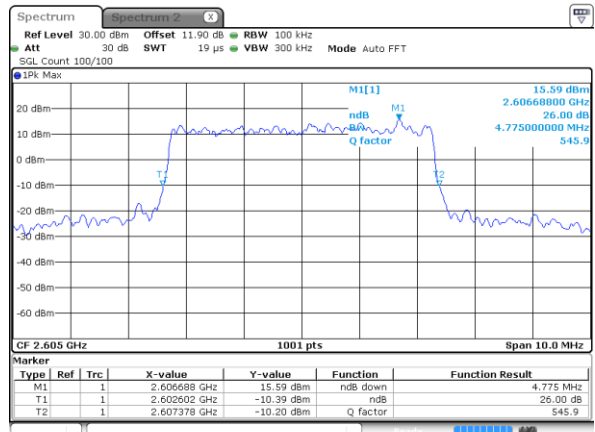
Date: 24 AUG 2017 15:29:59

Middle Channel / 5MHz / QPSK



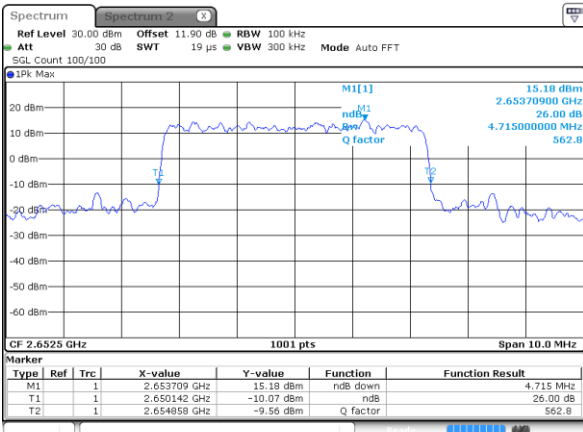
Date: 24 AUG 2017 15:30:29

Middle Channel / 5MHz / 16QAM



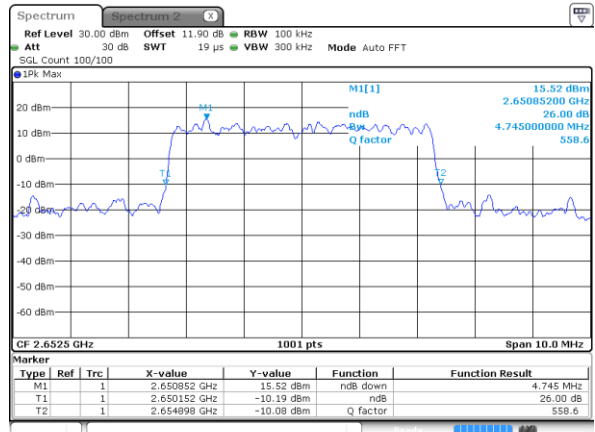
Date: 24 AUG 2017 15:30:39

Highest Channel / 5MHz / QPSK



Date: 24 AUG 2017 15:31:09

Highest Channel / 5MHz / 16QAM

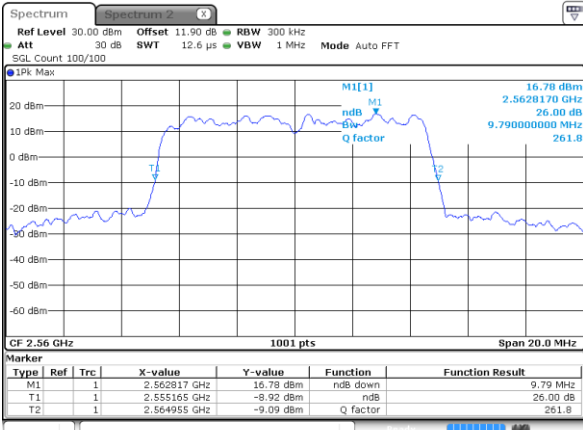


Date: 24 AUG 2017 15:31:19



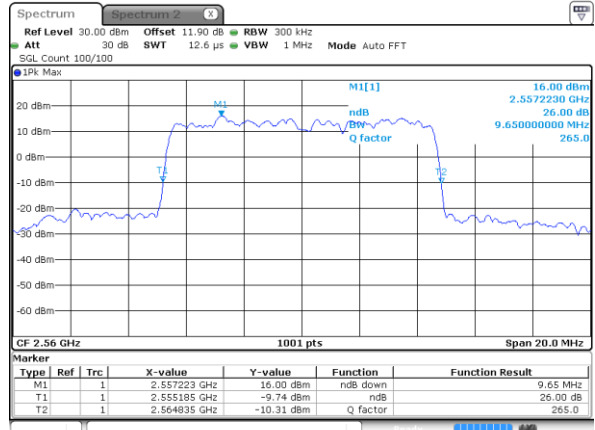
LTE Band 41

Lowest Channel / 10MHz / QPSK



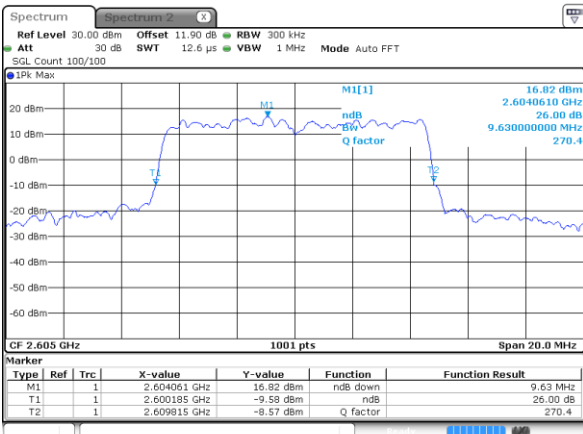
Date: 24 AUG 2017 15:31:50

Lowest Channel / 10MHz / 16QAM



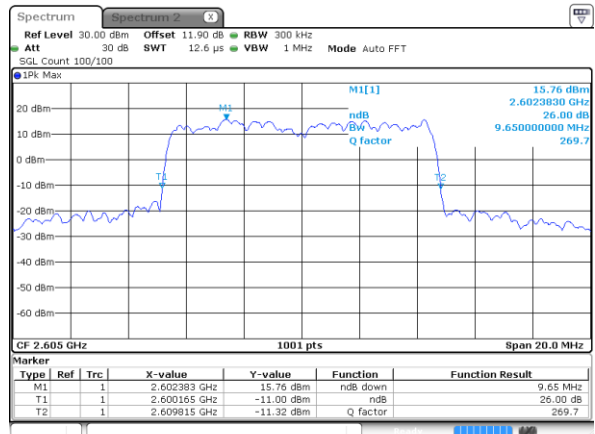
Date: 24 AUG 2017 15:32:00

Middle Channel / 10MHz / QPSK



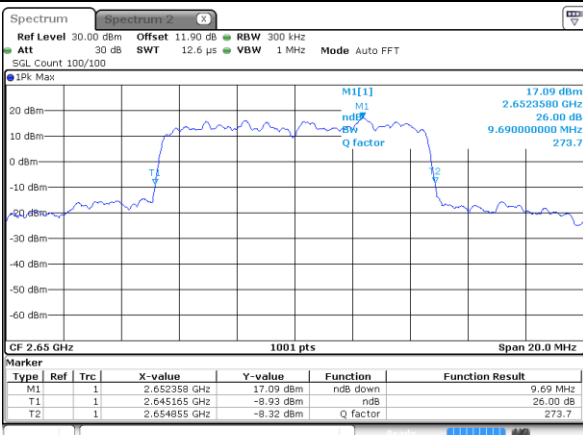
Date: 24 AUG 2017 15:32:30

Middle Channel / 10MHz / 16QAM



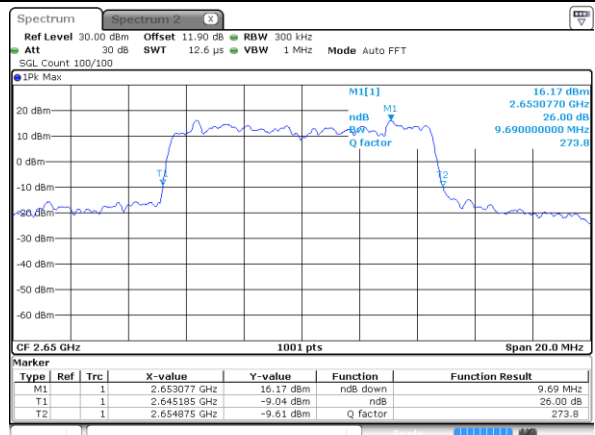
Date: 24 AUG 2017 15:32:40

Highest Channel / 10MHz / QPSK



Date: 24 AUG 2017 15:33:10

Highest Channel / 10MHz / 16QAM

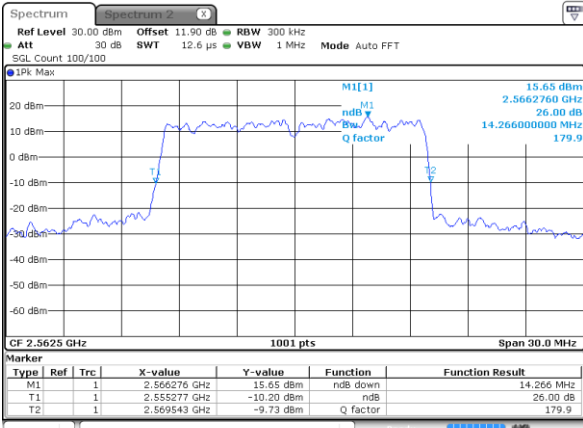


Date: 24 AUG 2017 15:33:20



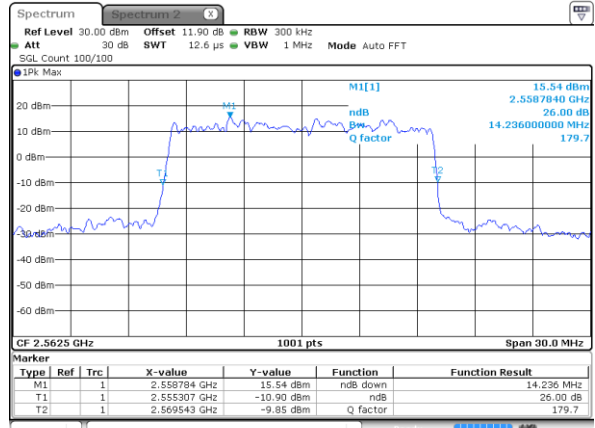
LTE Band 41

Lowest Channel / 15MHz / QPSK



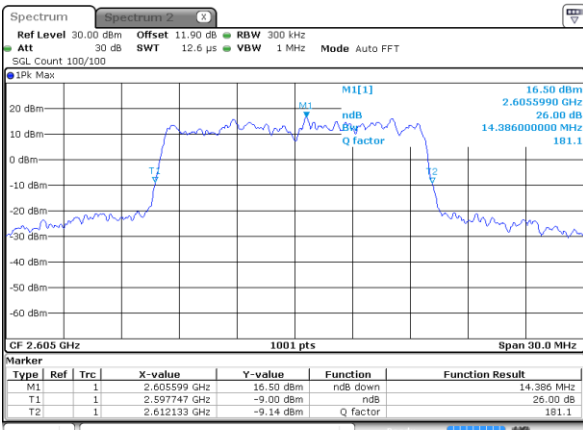
Date: 24 AUG 2017 15:33:50

Lowest Channel / 15MHz / 16QAM



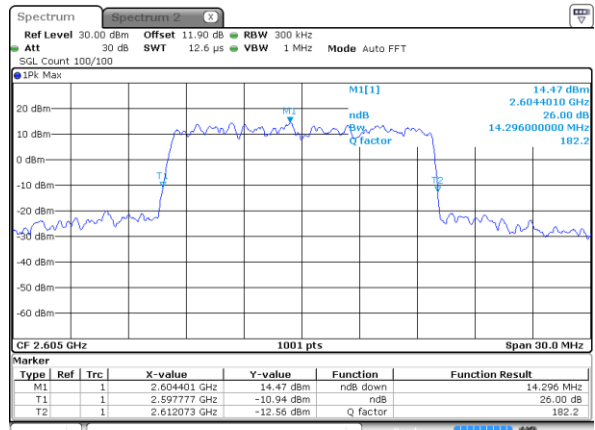
Date: 24 AUG 2017 15:34:00

Middle Channel / 15MHz / QPSK



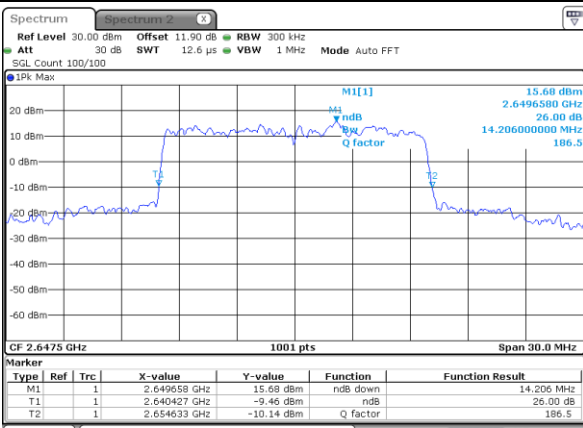
Date: 24 AUG 2017 15:34:30

Middle Channel / 15MHz / 16QAM



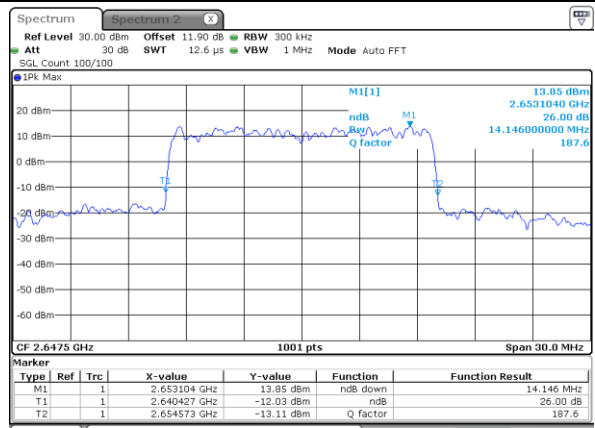
Date: 24 AUG 2017 15:34:40

Highest Channel / 15MHz / QPSK



Date: 24 AUG 2017 15:35:11

Highest Channel / 15MHz / 16QAM

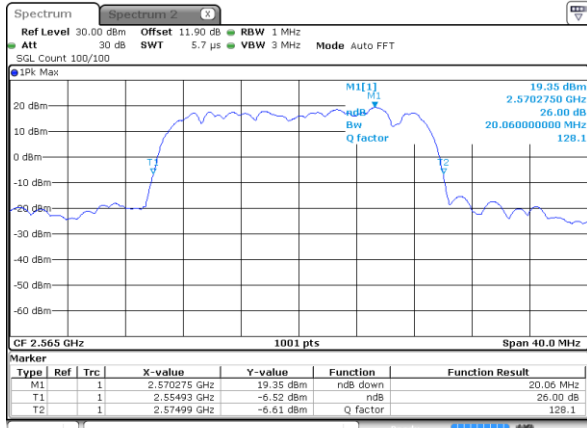


Date: 24 AUG 2017 15:35:21



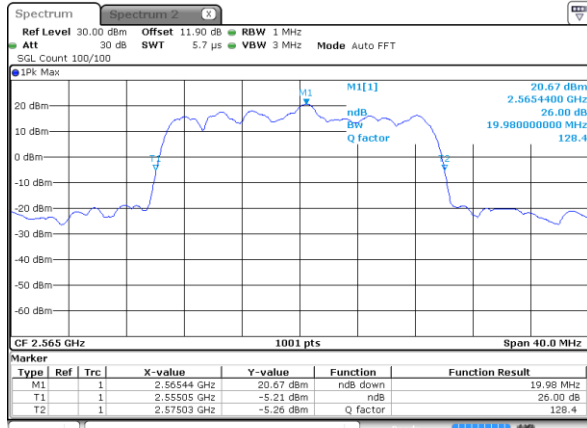
LTE Band 41

Lowest Channel / 20MHz / QPSK



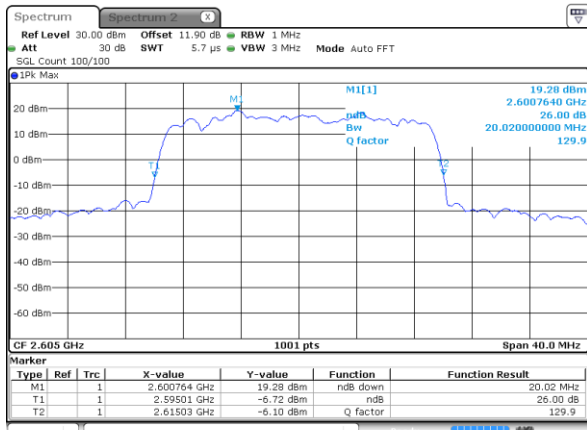
Date: 24 AUG 2017 15:35:51

Lowest Channel / 20MHz / 16QAM



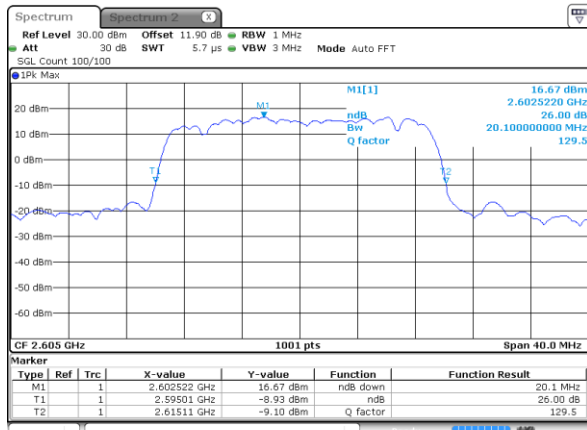
Date: 24 AUG 2017 15:36:01

Middle Channel / 20MHz / QPSK



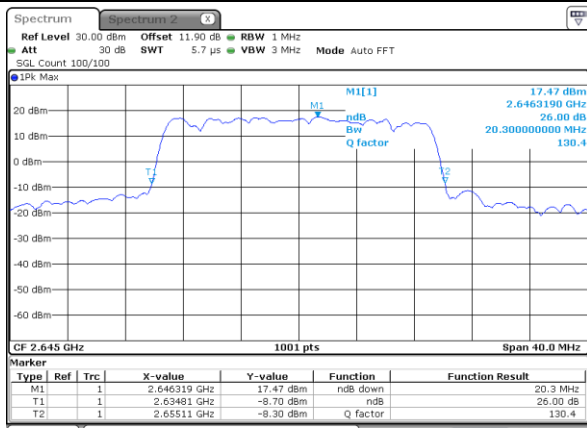
Date: 24 AUG 2017 15:36:31

Middle Channel / 20MHz / 16QAM



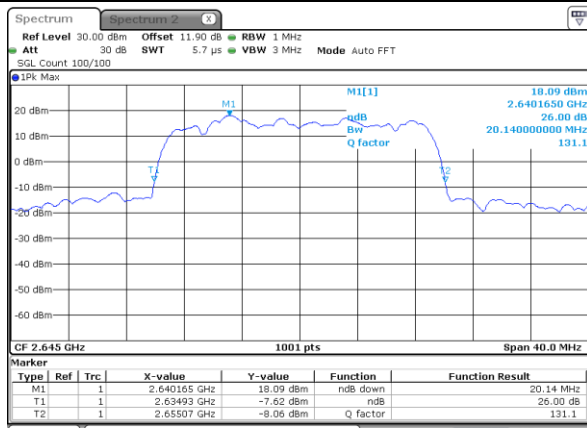
Date: 24 AUG 2017 15:36:41

Highest Channel / 20MHz / QPSK



Date: 24 AUG 2017 15:37:11

Highest Channel / 20MHz / 16QAM

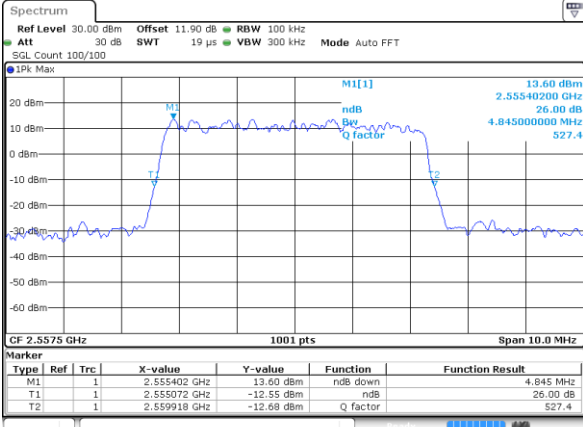


Date: 24 AUG 2017 15:37:21



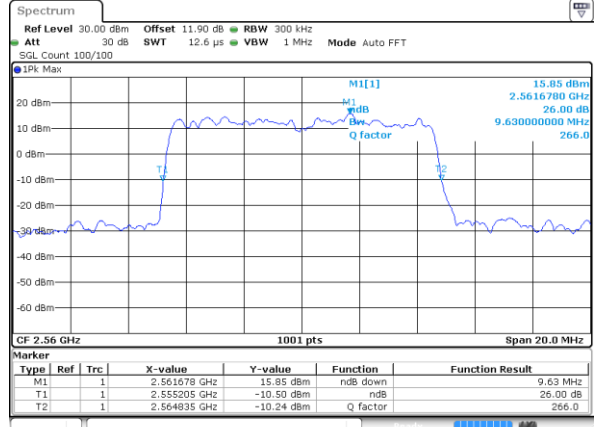
LTE Band 41

Lowest Channel / 5MHz / 64QAM



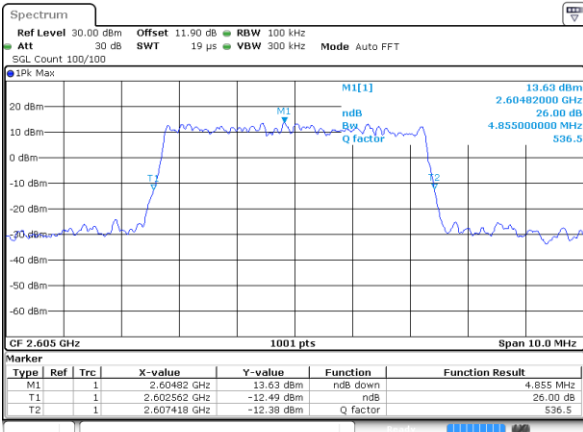
Date: 19.OCT.2017 17:03:49

Lowest Channel / 10MHz / 64QAM



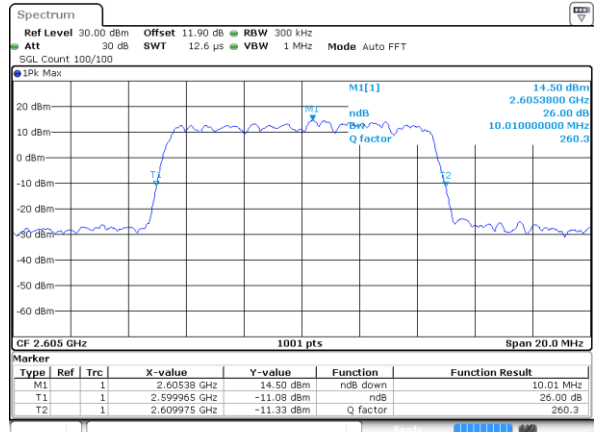
Date: 19.OCT.2017 17:04:49

Middle Channel / 5MHz / 64QAM



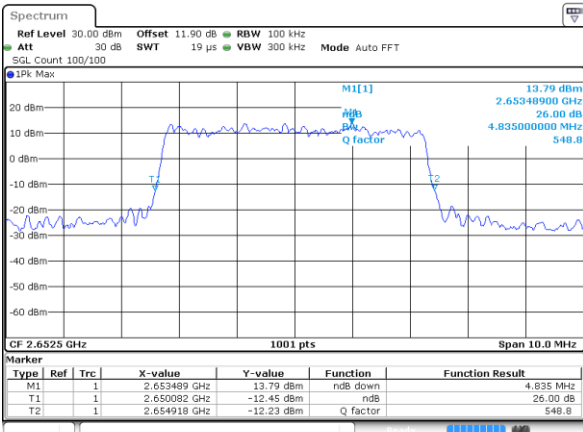
Date: 19.OCT.2017 17:04:09

Middle Channel / 10MHz / 64QAM



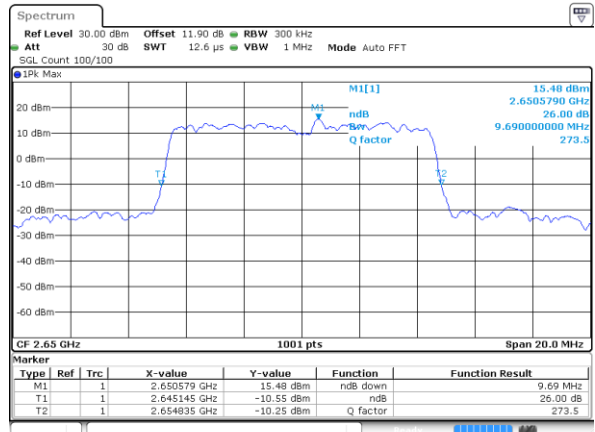
Date: 19.OCT.2017 17:05:09

Highest Channel / 5MHz / 64QAM



Date: 19.OCT.2017 17:04:29

Highest Channel / 10MHz / 64QAM



Date: 19.OCT.2017 17:05:29