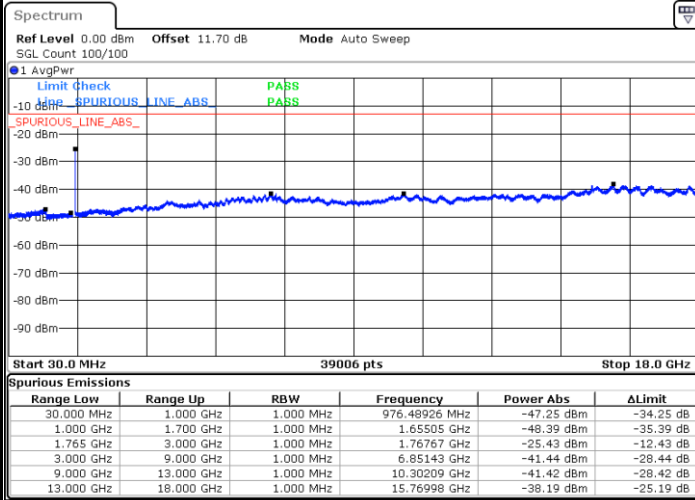




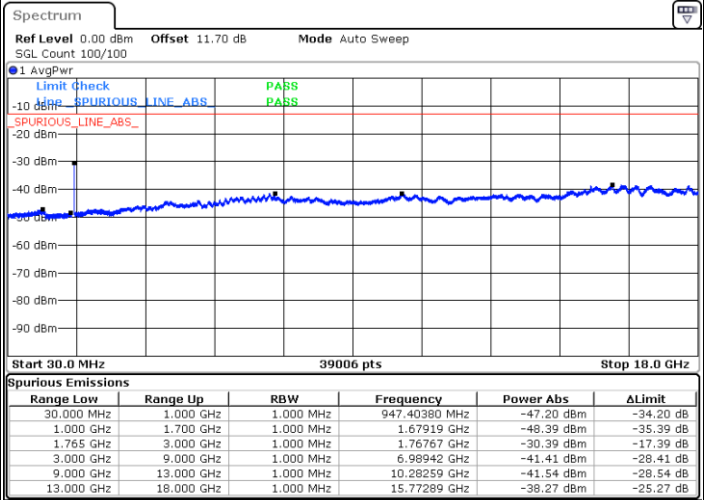
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 4 JAN 2018 13:03:17

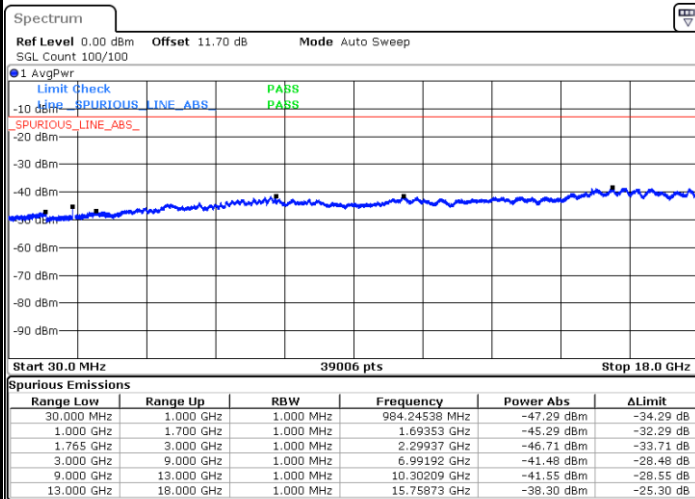
Highest Channel / 16QAM



Date: 4 JAN 2018 13:04:11

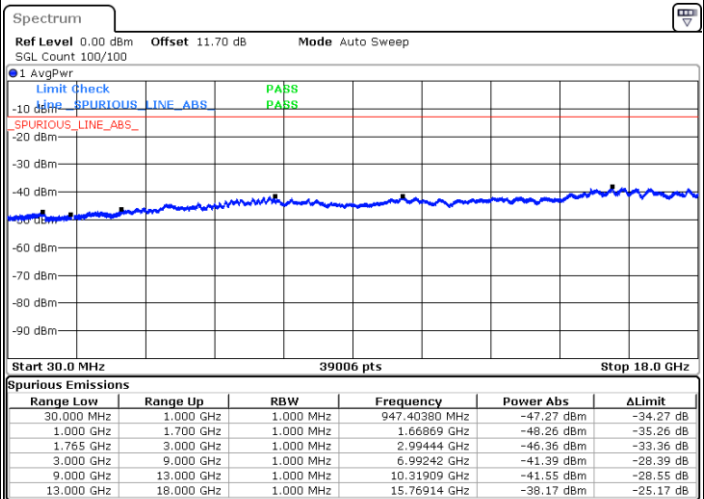
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 4 JAN 2018 13:10:20

Lowest Channel / 16QAM



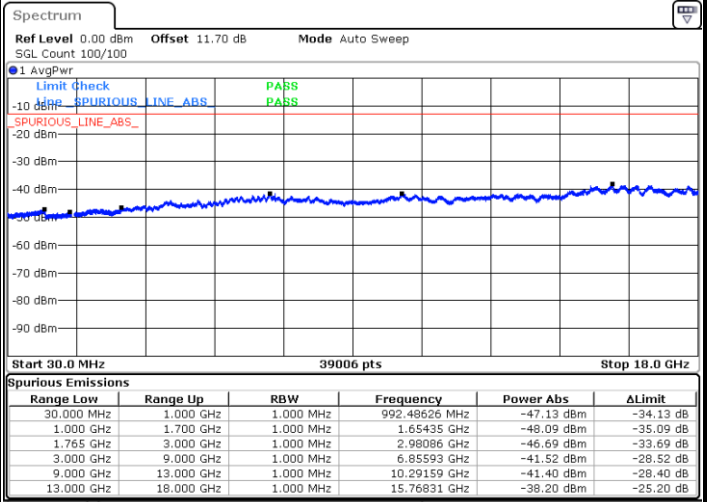
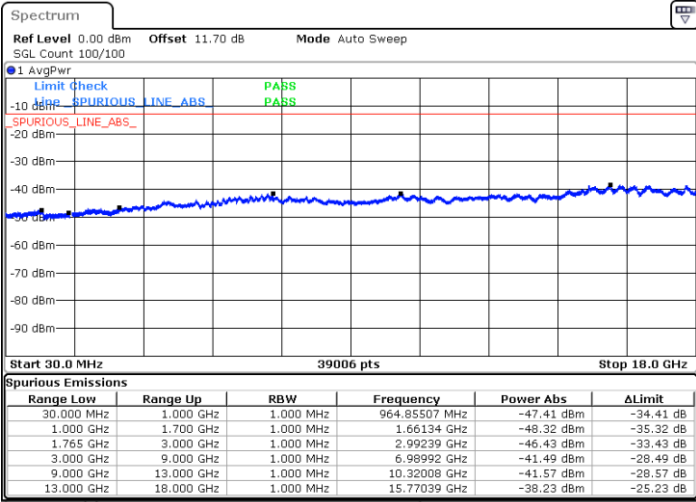
Date: 4 JAN 2018 13:11:14



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

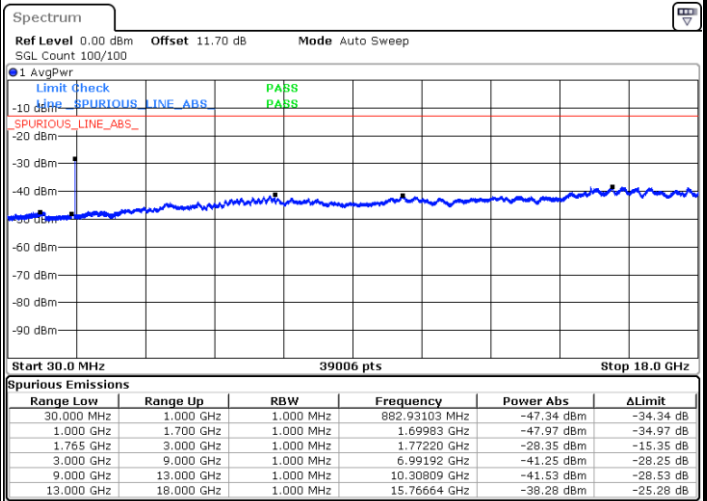
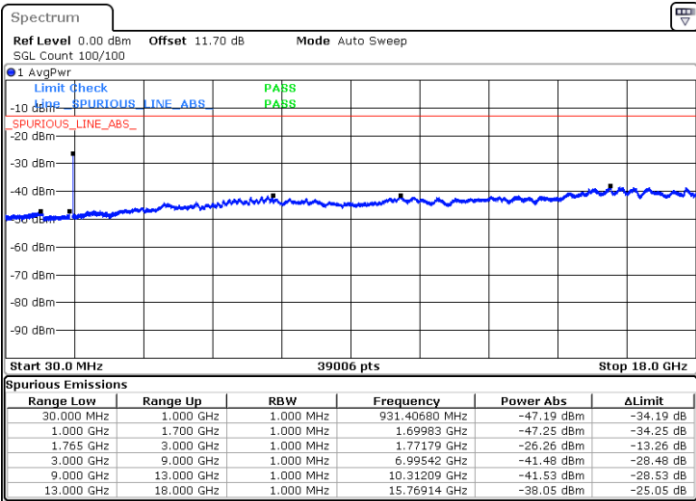


Date: 4 JAN 2018 13:12:48

Date: 4 JAN 2018 13:13:42

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 JAN 2018 13:19:51

Date: 4 JAN 2018 13:20:45



Frequency Stability

| Test Conditions | | LTE Band 4 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0006 | PASS |
| 40 | Normal Voltage | 0.0008 | |
| 30 | Normal Voltage | 0.0008 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0006 | |
| 0 | Normal Voltage | 0.0004 | |
| -10 | Normal Voltage | 0.0002 | |
| -20 | Normal Voltage | 0.0002 | |
| -30 | Normal Voltage | 0.0001 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0001 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

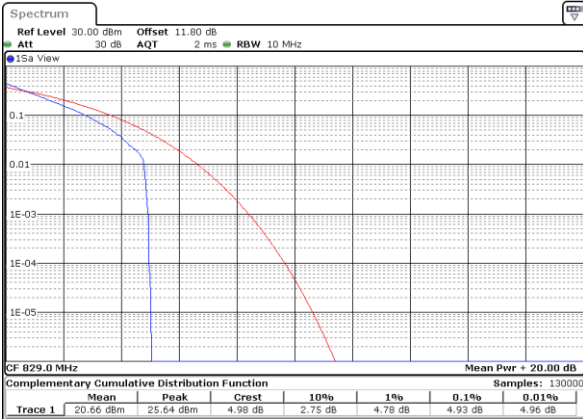
Peak-to-Average Ratio

| Mode | LTE Band 5 / 10MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 4.93 | 5.07 | 5.39 | 6.09 | PASS |
| Middle CH | 4.99 | 4.96 | 5.74 | 5.91 | |
| Highest CH | 4.52 | 4.81 | 5.28 | 5.71 | |



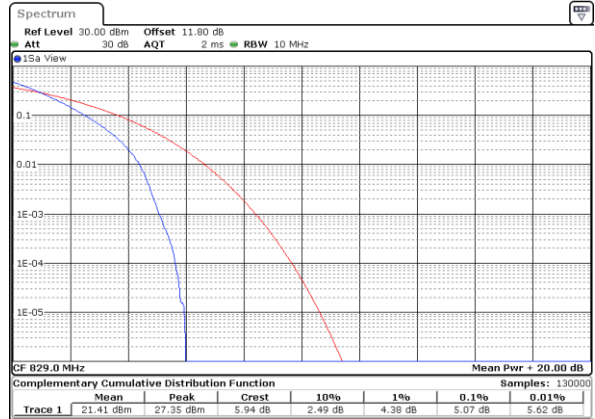
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



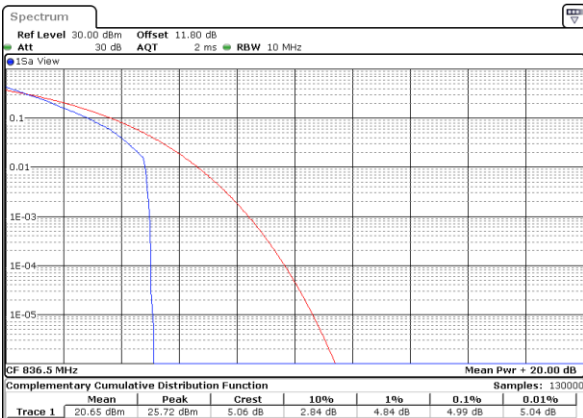
Date: 6 JAN 2018 13:57:36

Lowest Channel / Full RB



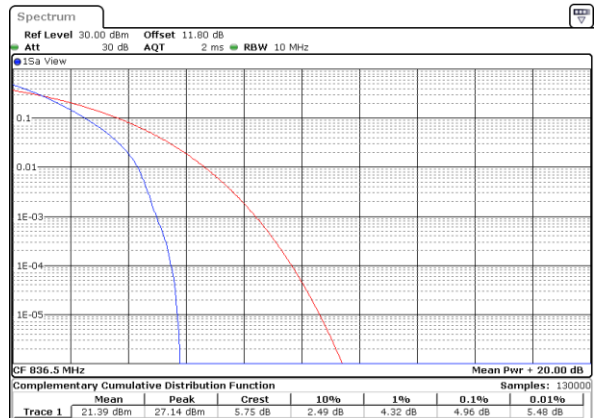
Date: 6 JAN 2018 13:57:45

Middle Channel / 1RB



Date: 6 JAN 2018 13:57:54

Middle Channel / Full RB



Date: 6 JAN 2018 13:58:05

Highest Channel / 1RB



Date: 6 JAN 2018 13:58:18

Highest Channel / Full RB

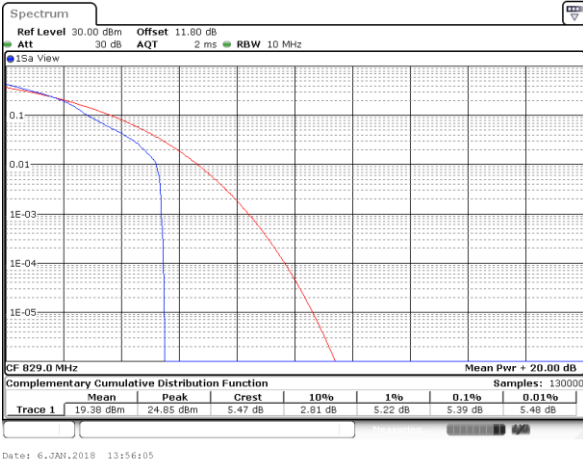


Date: 6 JAN 2018 13:58:28



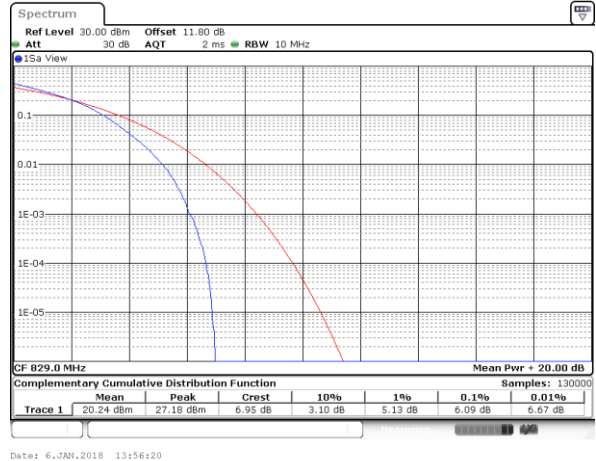
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



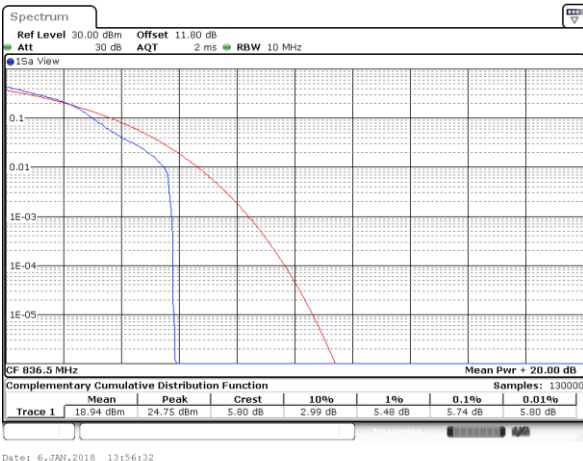
Date: 6.JAN.2018 13:56:05

Lowest Channel / Full RB



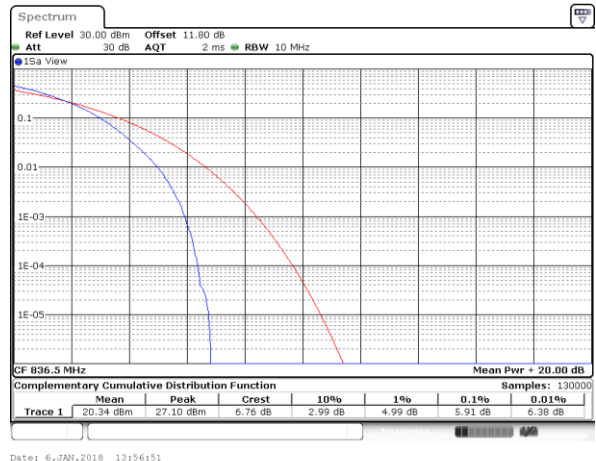
Date: 6.JAN.2018 13:56:20

Middle Channel / 1RB



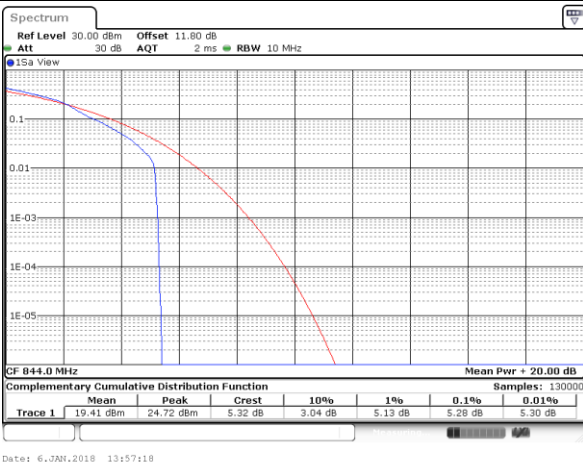
Date: 6.JAN.2018 13:56:32

Middle Channel / Full RB



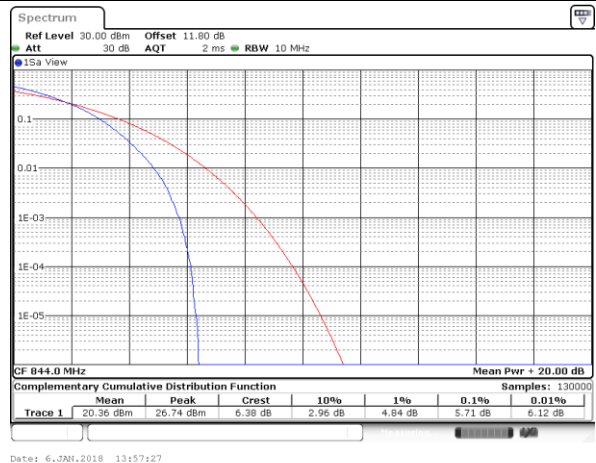
Date: 6.JAN.2018 13:56:51

Highest Channel / 1RB



Date: 6.JAN.2018 13:57:18

Highest Channel / Full RB



Date: 6.JAN.2018 13:57:27



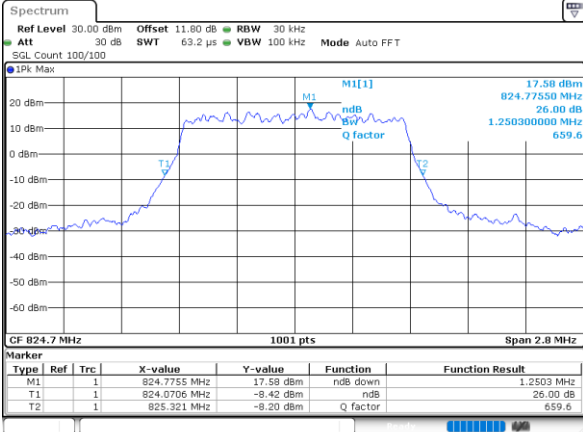
26dB Bandwidth

| Mode | LTE Band 5 : 26dB BW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.25 | 1.27 | 2.99 | 2.99 | 4.98 | 4.95 | 9.73 | 9.75 | - | - | - | - |
| Middle CH | 1.26 | 1.24 | 3.00 | 2.99 | 4.96 | 5.02 | 9.65 | 9.71 | - | - | - | - |
| Highest CH | 1.28 | 1.32 | 3.00 | 3.03 | 4.93 | 4.90 | 9.89 | 9.73 | - | - | - | - |



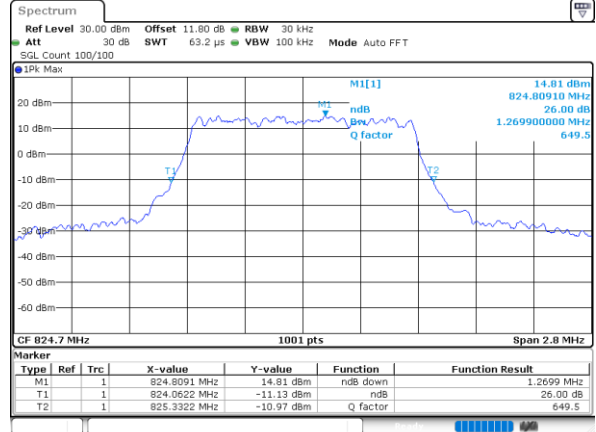
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



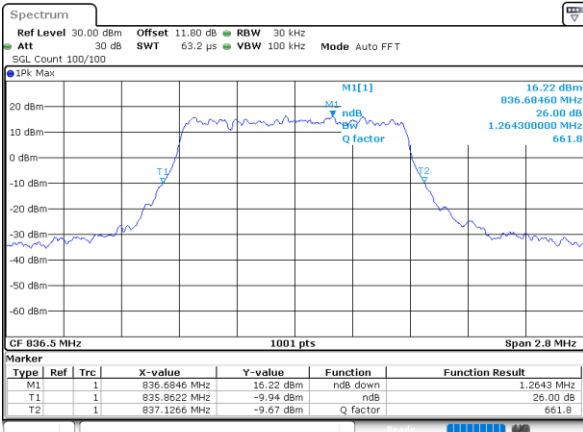
Date: 6, JAN, 2018 01:27:08

Lowest Channel / 1.4MHz / 16QAM



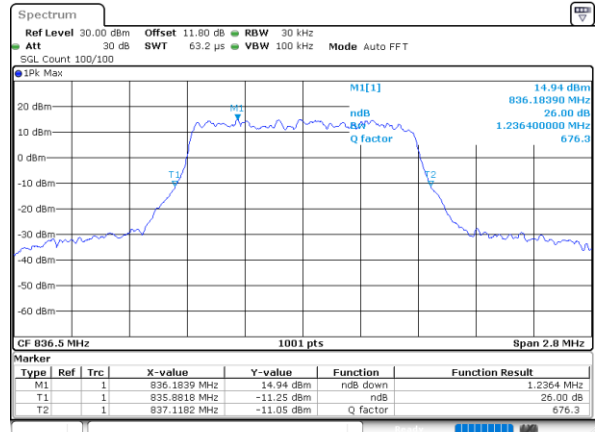
Date: 6, JAN, 2018 01:26:58

Middle Channel / 1.4MHz / QPSK



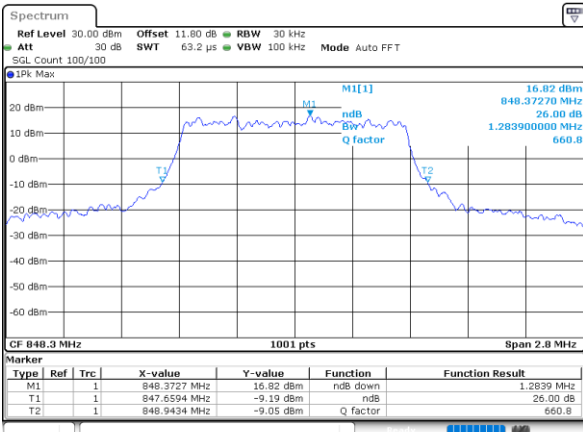
Date: 6, JAN, 2018 01:35:55

Middle Channel / 1.4MHz / 16QAM



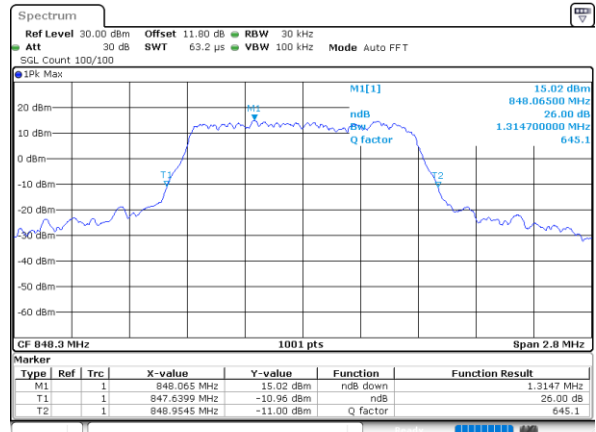
Date: 6, JAN, 2018 01:36:05

Highest Channel / 1.4MHz / QPSK



Date: 6, JAN, 2018 01:38:21

Highest Channel / 1.4MHz / 16QAM

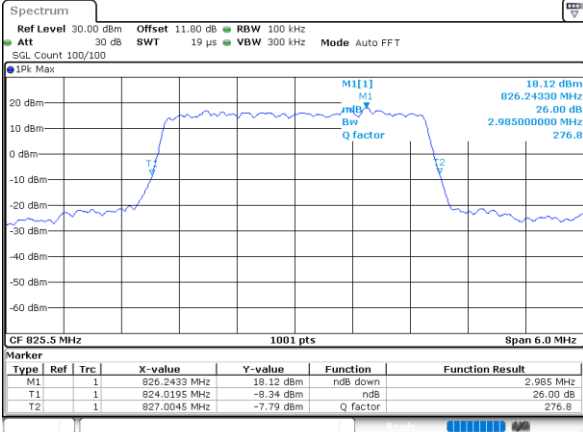


Date: 6, JAN, 2018 01:38:31



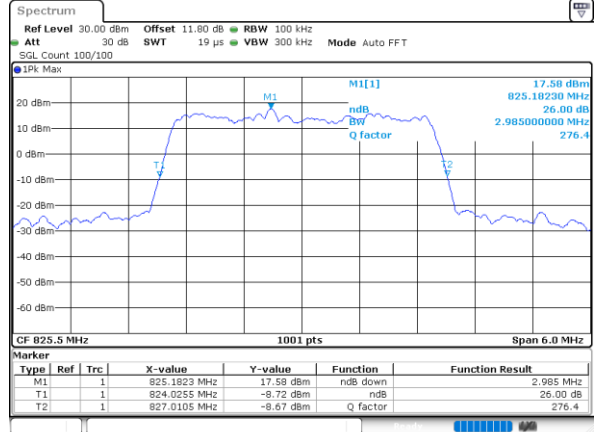
LTE Band 5

Lowest Channel / 3MHz / QPSK



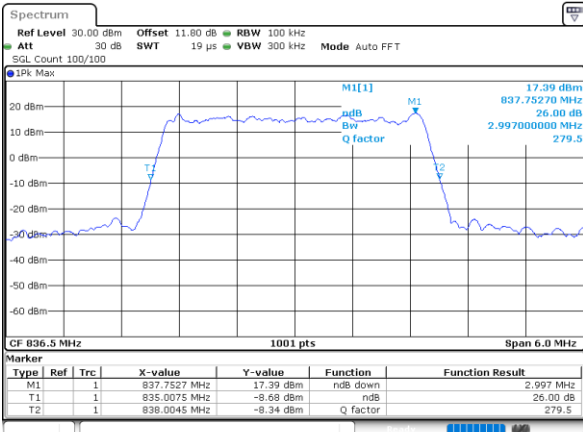
Date: 6,JAN,2018 00:24:59

Lowest Channel / 3MHz / 16QAM



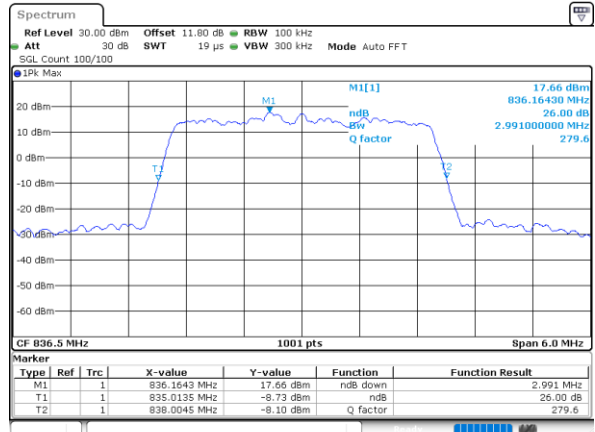
Date: 6,JAN,2018 00:25:09

Middle Channel / 3MHz / QPSK



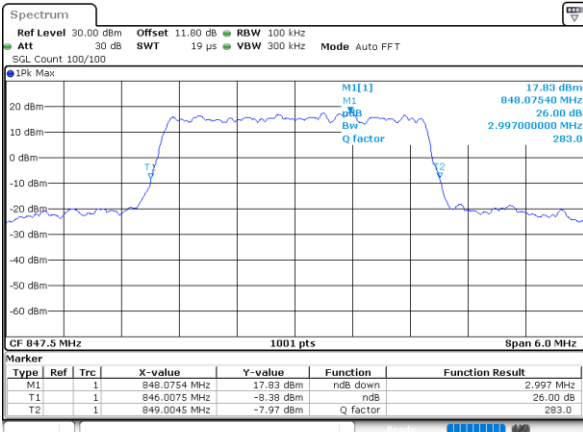
Date: 6,JAN,2018 00:33:57

Middle Channel / 3MHz / 16QAM



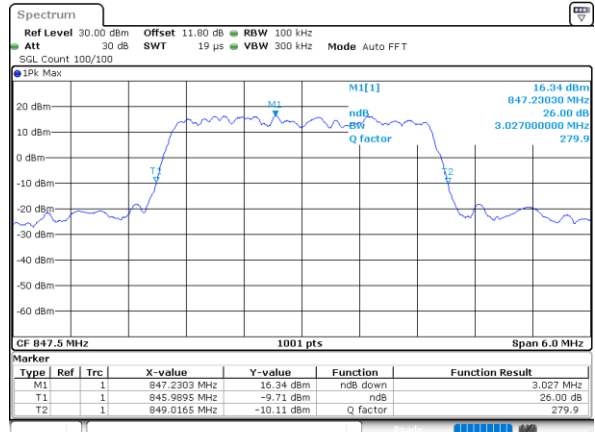
Date: 6,JAN,2018 00:34:06

Highest Channel / 3MHz / QPSK



Date: 6,JAN,2018 00:36:22

Highest Channel / 3MHz / 16QAM

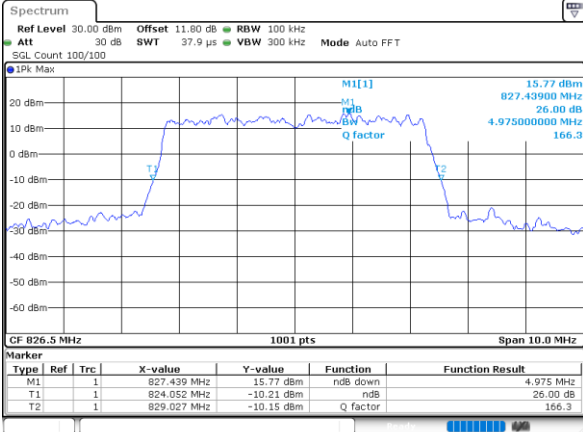


Date: 6,JAN,2018 00:36:32



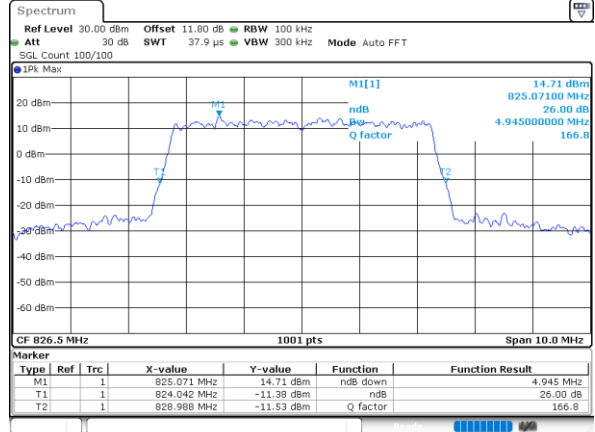
LTE Band 5

Lowest Channel / 5MHz / QPSK



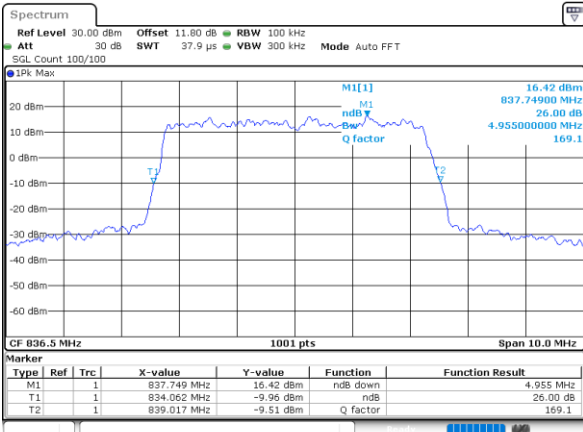
Date: 6, JAN, 2018 00:45:20

Lowest Channel / 5MHz / 16QAM



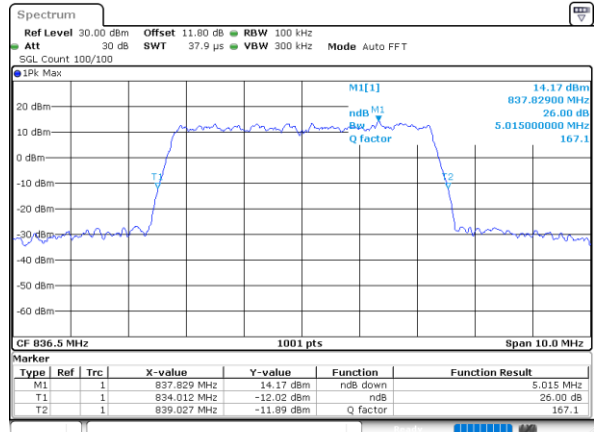
Date: 6, JAN, 2018 00:45:30

Middle Channel / 5MHz / QPSK



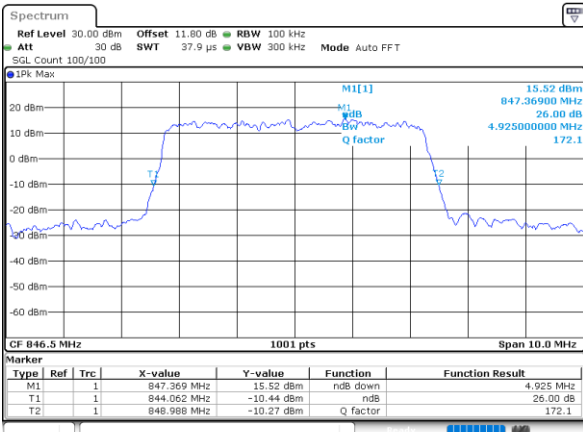
Date: 6, JAN, 2018 00:54:17

Middle Channel / 5MHz / 16QAM



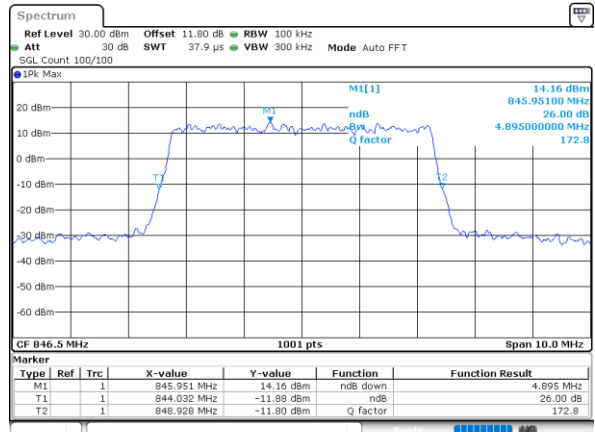
Date: 6, JAN, 2018 00:54:27

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 00:56:43

Highest Channel / 5MHz / 16QAM

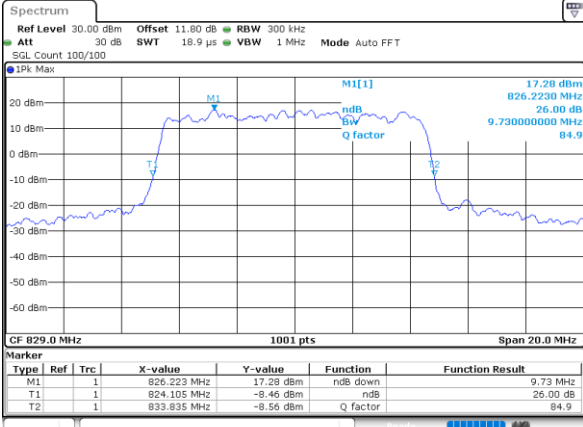


Date: 6, JAN, 2018 00:56:52



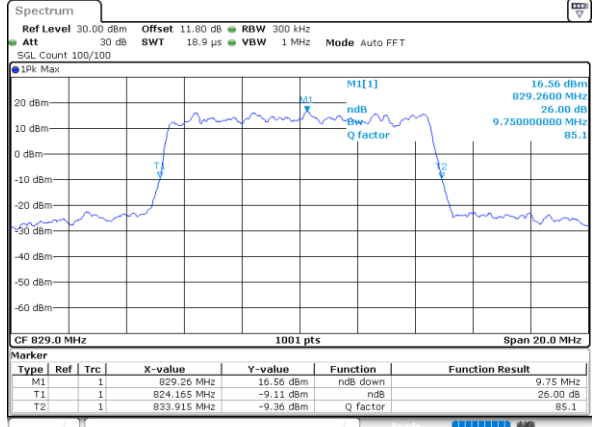
LTE Band 5

Lowest Channel / 10MHz / QPSK



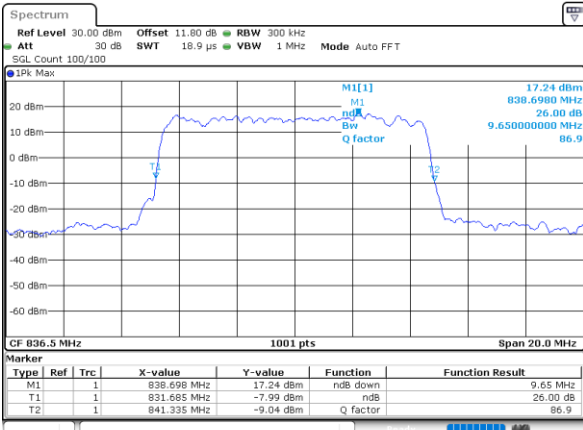
Date: 6, JAN, 2018 01:05:40

Lowest Channel / 10MHz / 16QAM



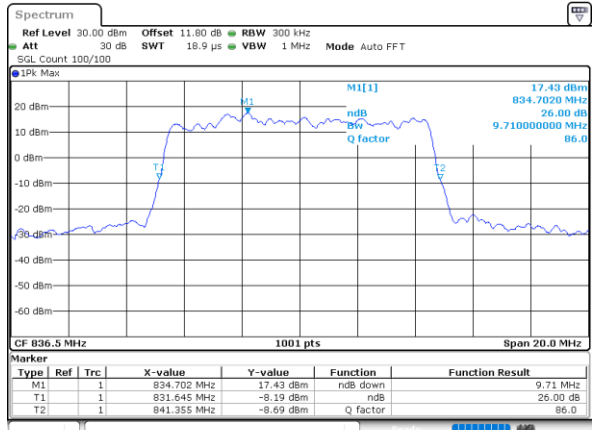
Date: 6, JAN, 2018 01:05:50

Middle Channel / 10MHz / QPSK



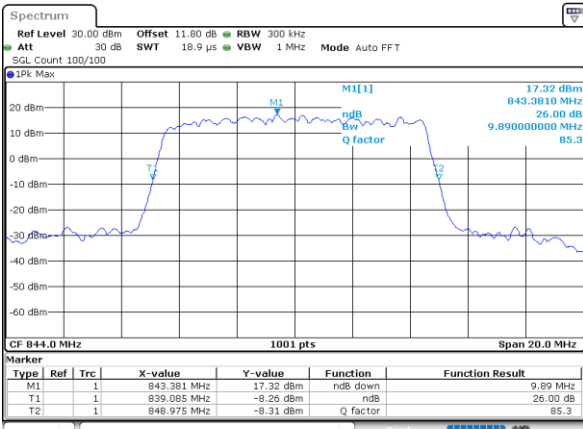
Date: 6, JAN, 2018 01:14:37

Middle Channel / 10MHz / 16QAM



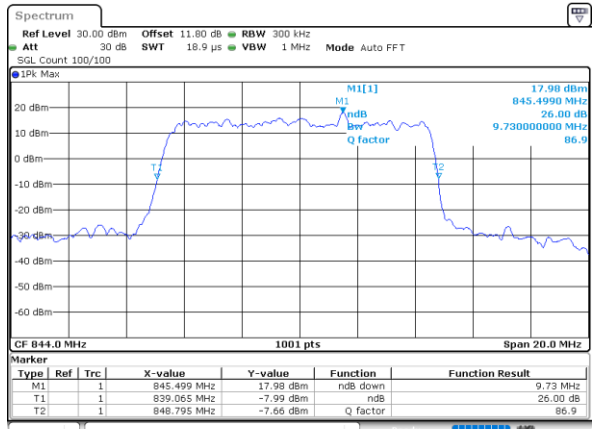
Date: 6, JAN, 2018 01:14:47

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 01:17:03

Highest Channel / 10MHz / 16QAM



Date: 6, JAN, 2018 01:17:13



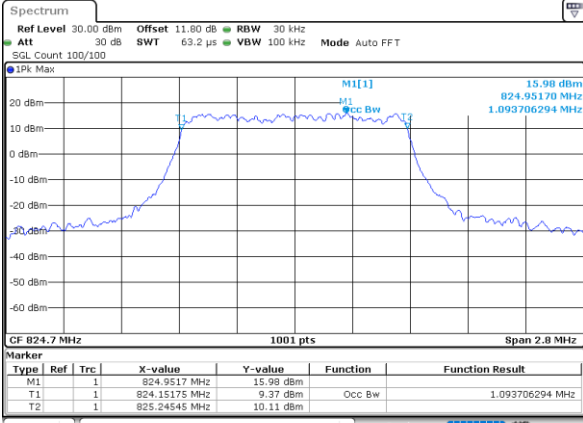
Occupied Bandwidth

| Mode | LTE Band 5 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.09 | 1.1 | 2.72 | 2.72 | 4.49 | 4.48 | 9.01 | 9.05 | - | - | - | - |
| Middle CH | 1.09 | 1.09 | 2.72 | 2.72 | 4.48 | 4.52 | 9.03 | 9.05 | - | - | - | - |
| Highest CH | 1.1 | 1.09 | 2.73 | 2.72 | 4.49 | 4.49 | 9.01 | 8.97 | - | - | - | - |



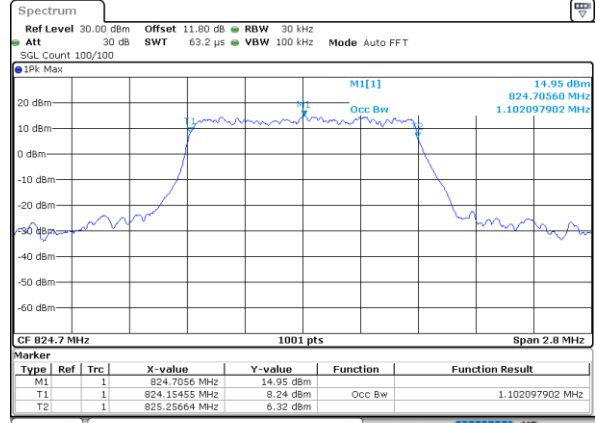
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



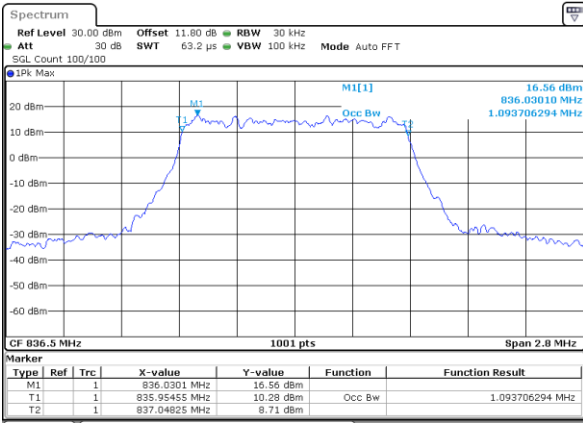
Date: 6, JAN, 2018 01:26:18

Lowest Channel / 1.4MHz / 16QAM



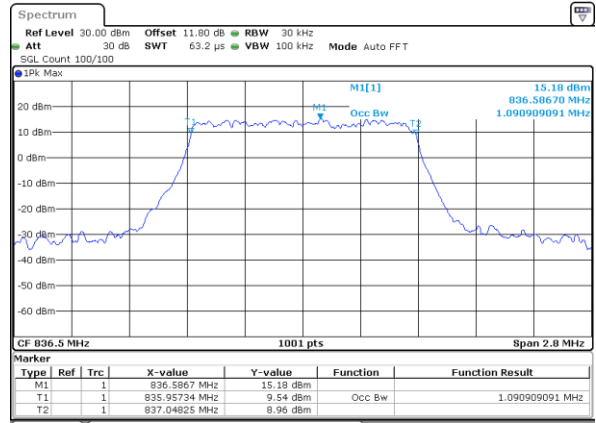
Date: 6, JAN, 2018 01:26:48

Middle Channel / 1.4MHz / QPSK



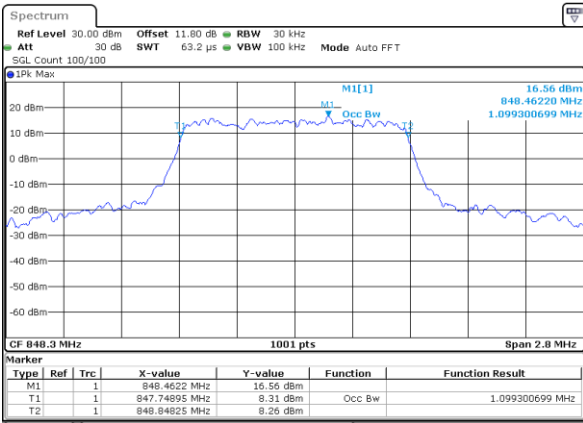
Date: 6, JAN, 2018 01:35:35

Middle Channel / 1.4MHz / 16QAM



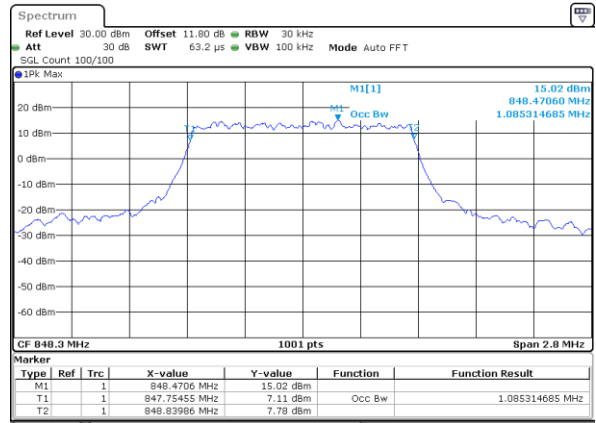
Date: 6, JAN, 2018 01:35:45

Highest Channel / 1.4MHz / QPSK



Date: 6, JAN, 2018 01:38:01

Highest Channel / 1.4MHz / 16QAM

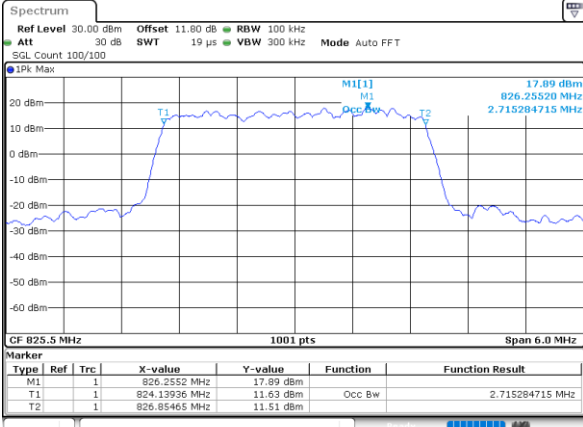


Date: 6, JAN, 2018 01:38:11



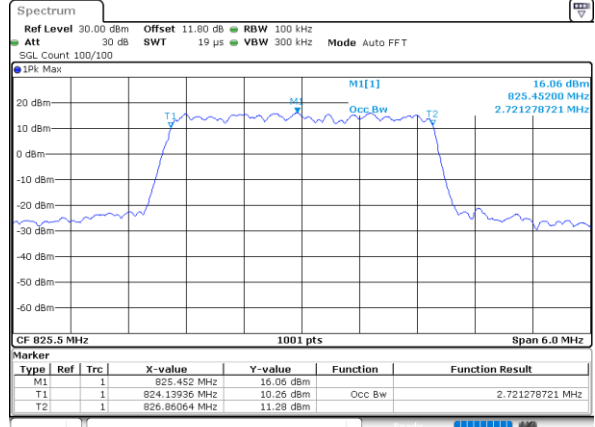
LTE Band 5

Lowest Channel / 3MHz / QPSK



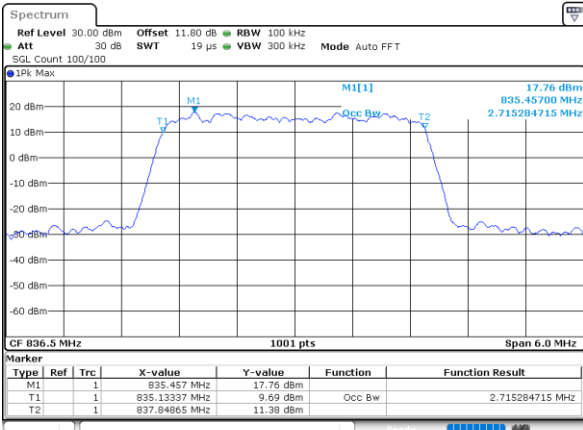
Date: 6, JAN, 2018 00:24:39

Lowest Channel / 3MHz / 16QAM



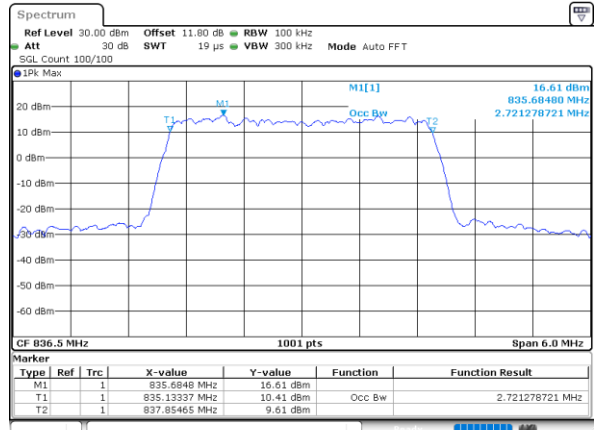
Date: 6, JAN, 2018 00:24:49

Middle Channel / 3MHz / QPSK



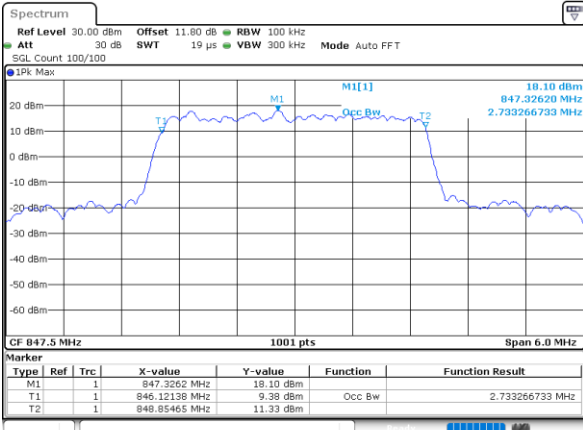
Date: 6, JAN, 2018 00:33:37

Middle Channel / 3MHz / 16QAM



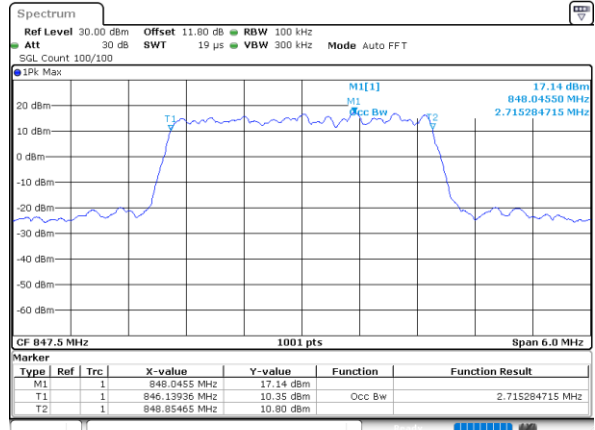
Date: 6, JAN, 2018 00:33:47

Highest Channel / 3MHz / QPSK



Date: 6, JAN, 2018 00:36:02

Highest Channel / 3MHz / 16QAM

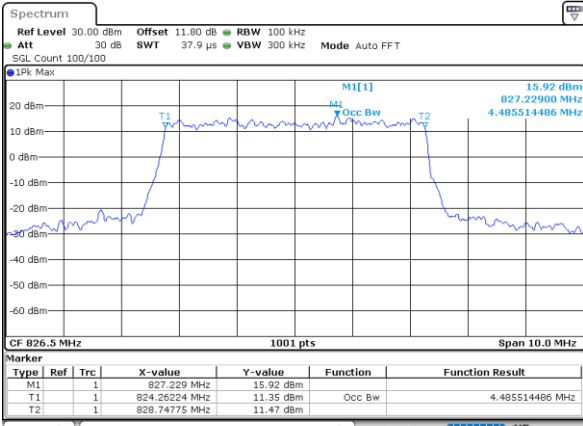


Date: 6, JAN, 2018 00:36:12



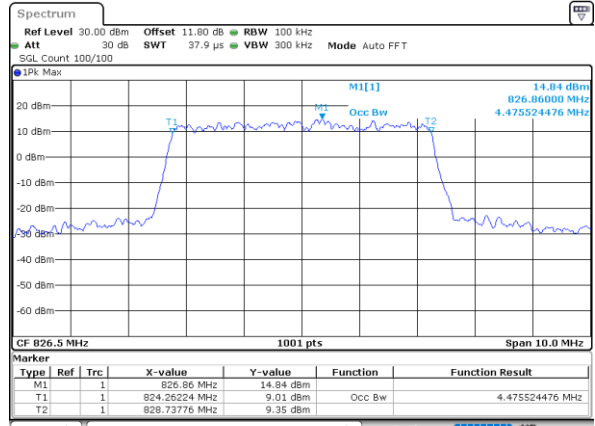
LTE Band 5

Lowest Channel / 5MHz / QPSK



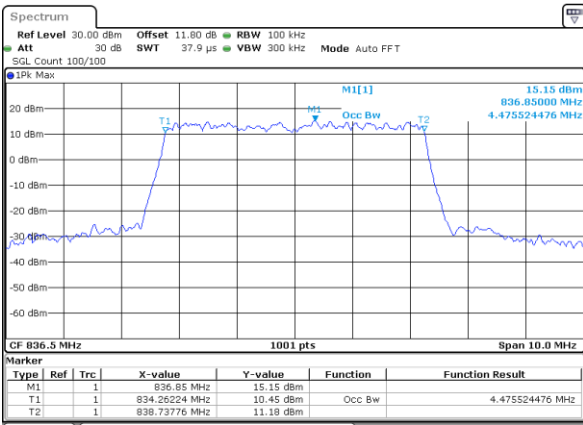
Date: 6, JAN, 2018 00:45:10

Lowest Channel / 5MHz / 16QAM



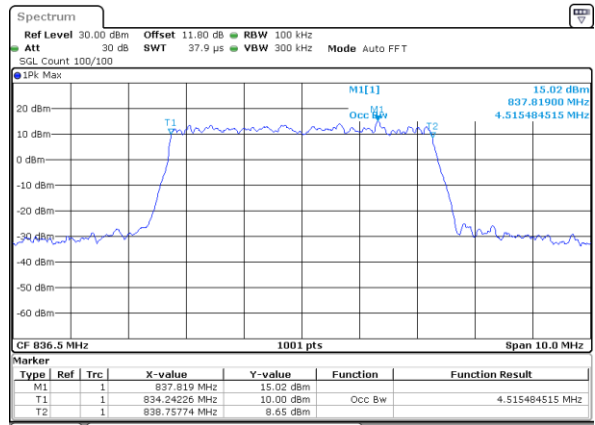
Date: 6, JAN, 2018 00:45:10

Middle Channel / 5MHz / QPSK



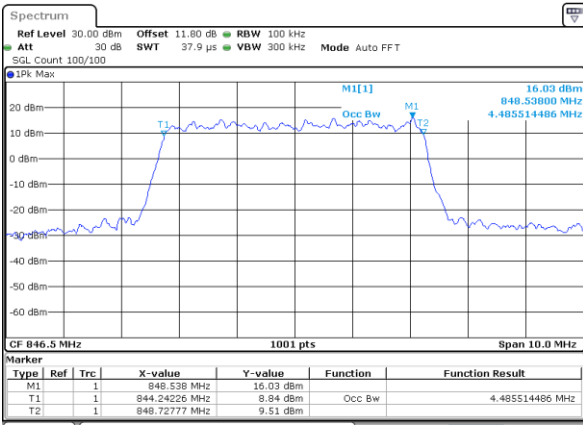
Date: 6, JAN, 2018 00:53:57

Middle Channel / 5MHz / 16QAM



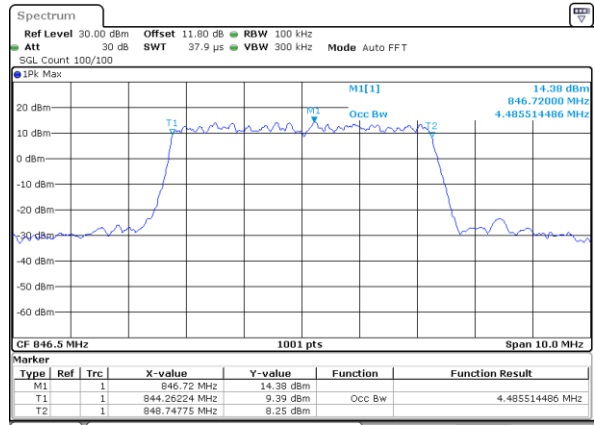
Date: 6, JAN, 2018 00:54:07

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 00:56:23

Highest Channel / 5MHz / 16QAM

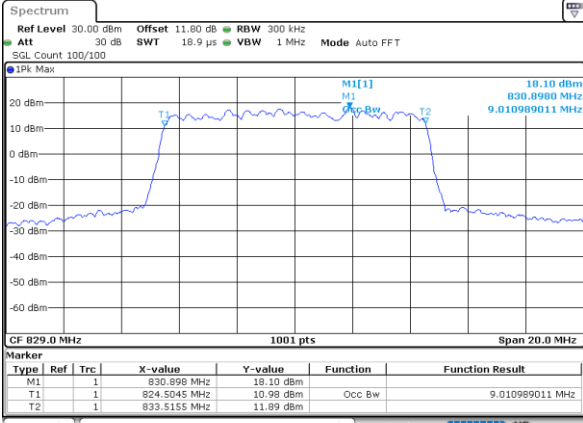


Date: 6, JAN, 2018 00:56:33



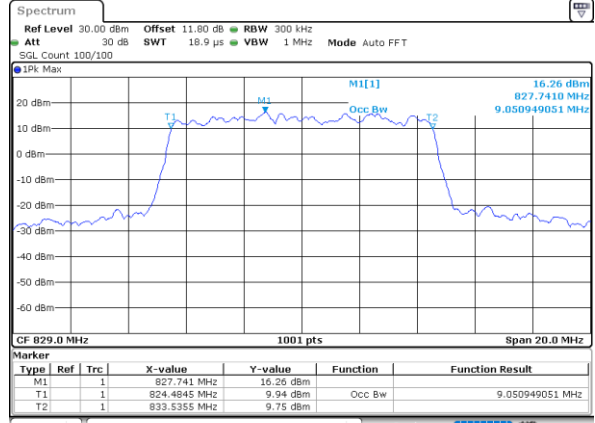
LTE Band 5

Lowest Channel / 10MHz / QPSK



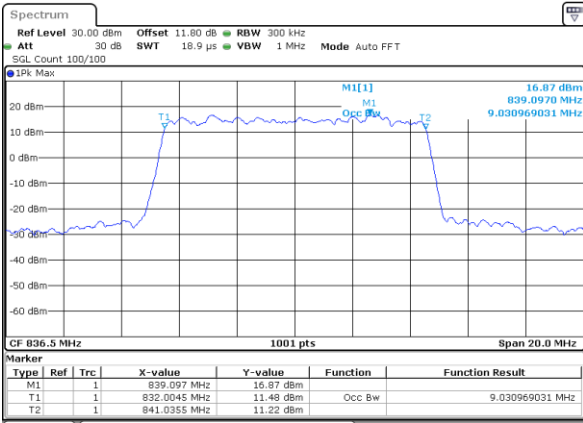
Date: 6, JAN, 2018 01:05:20

Lowest Channel / 10MHz / 16QAM



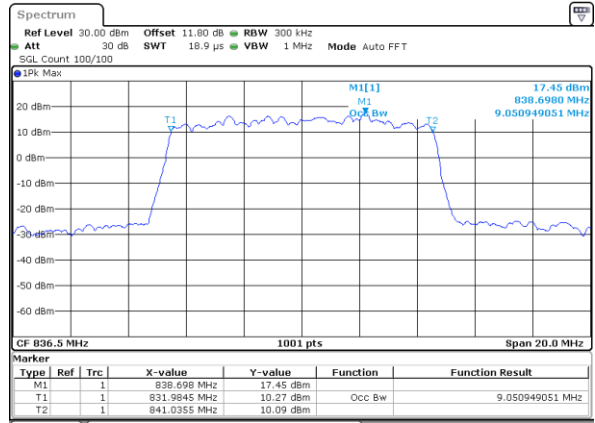
Date: 6, JAN, 2018 01:05:30

Middle Channel / 10MHz / QPSK



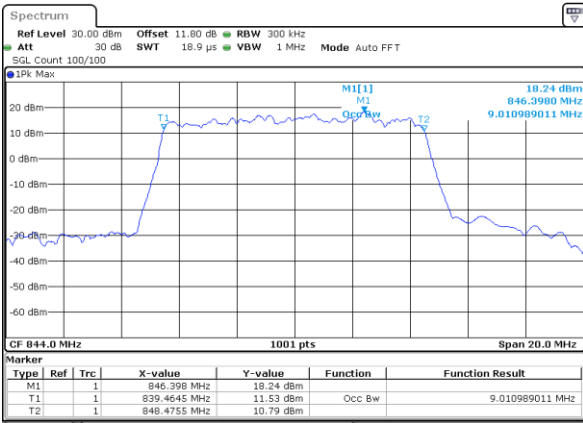
Date: 6, JAN, 2018 01:14:17

Middle Channel / 10MHz / 16QAM



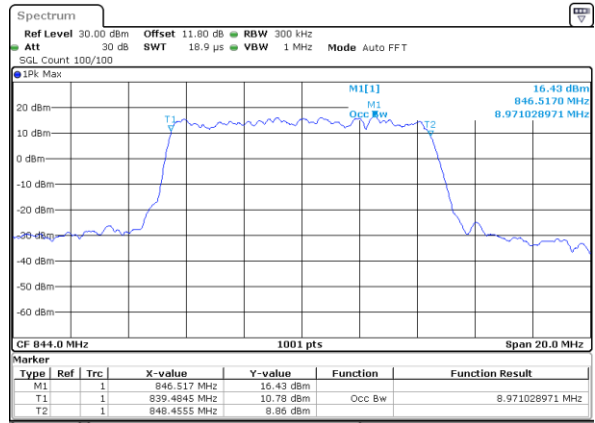
Date: 6, JAN, 2018 01:14:27

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 01:16:43

Highest Channel / 10MHz / 16QAM



Date: 6, JAN, 2018 01:16:53

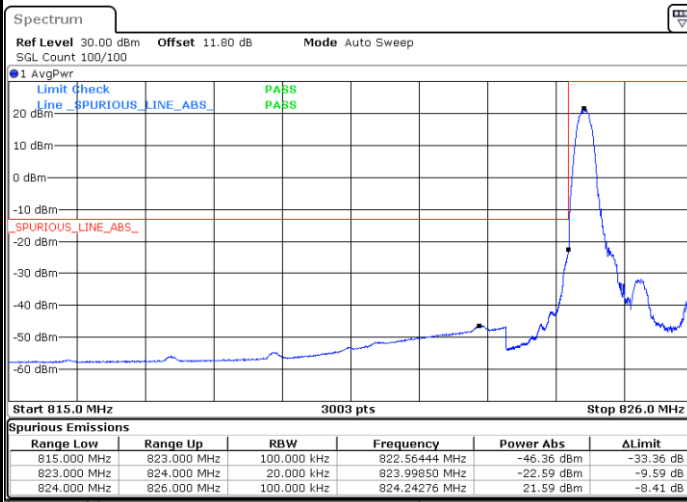


Conducted Band Edge



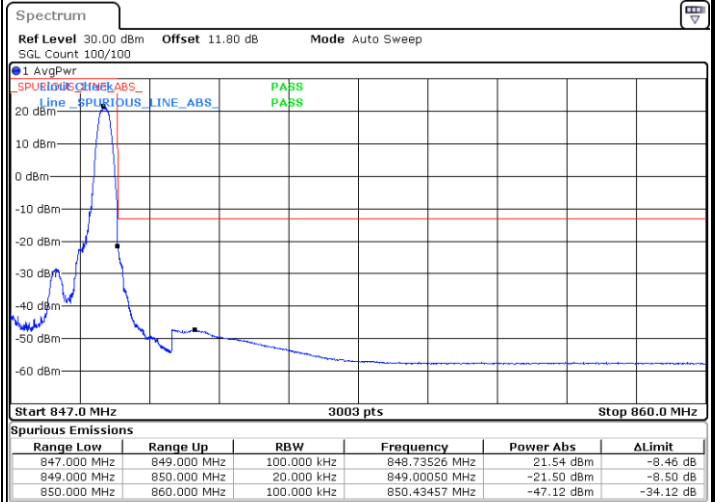
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



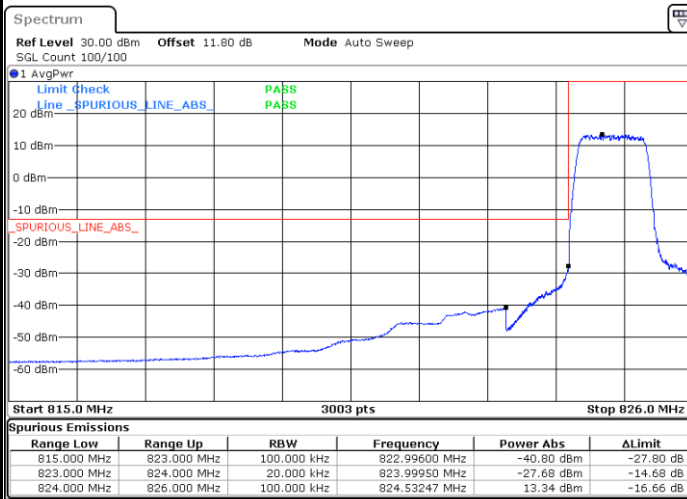
Date: 6.JAN.2018 01:28:45

Highest Band Edge / 1RB



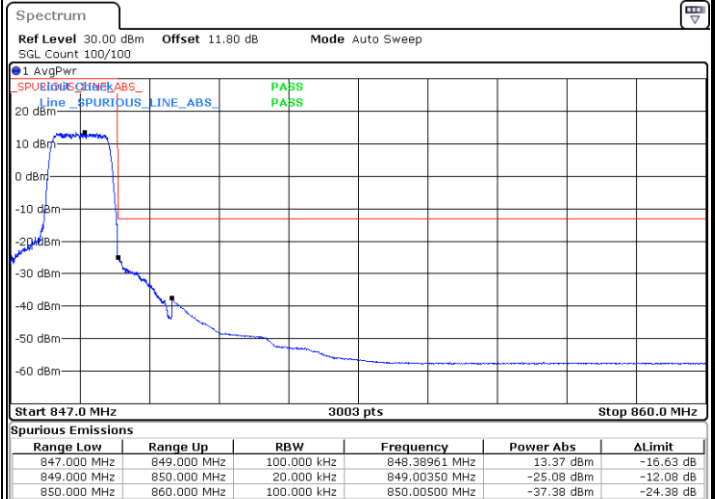
Date: 6.JAN.2018 01:43:24

Lowest Band Edge / Full RB

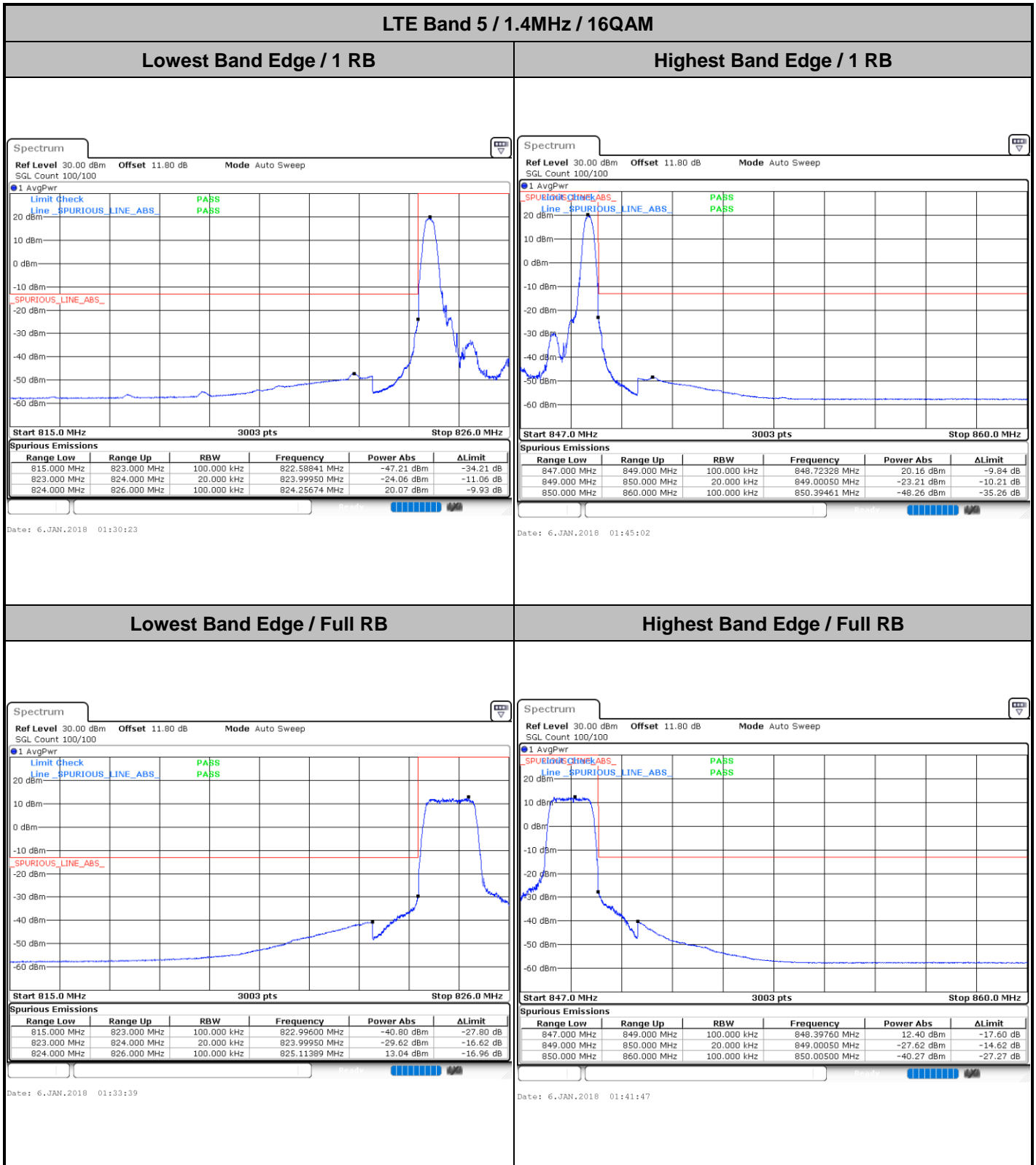


Date: 6.JAN.2018 01:32:01

Highest Band Edge / Full RB



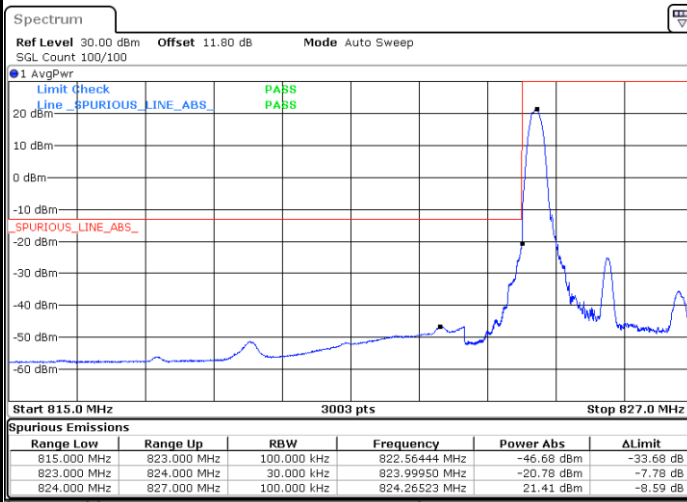
Date: 6.JAN.2018 01:40:09





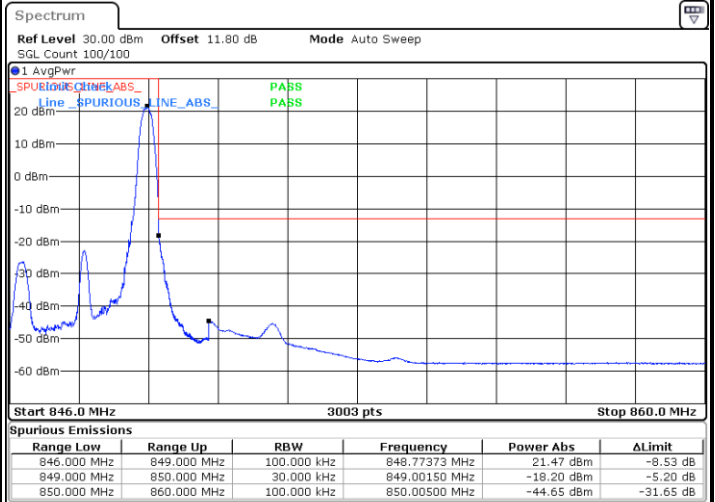
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



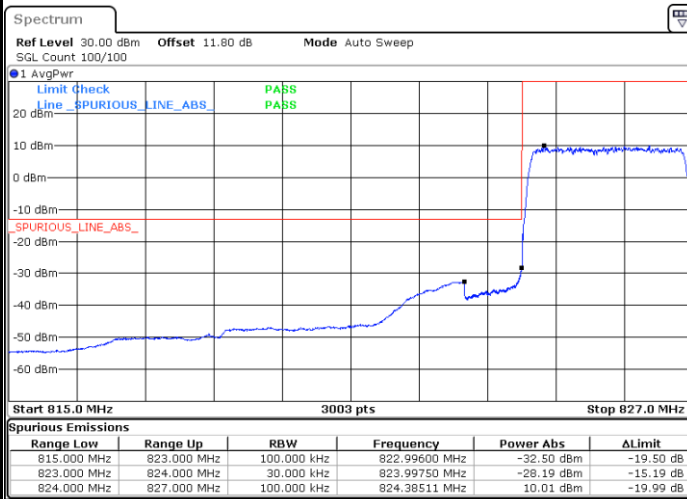
Date: 6.JAN.2018 00:26:47

Highest Band Edge / 1 RB



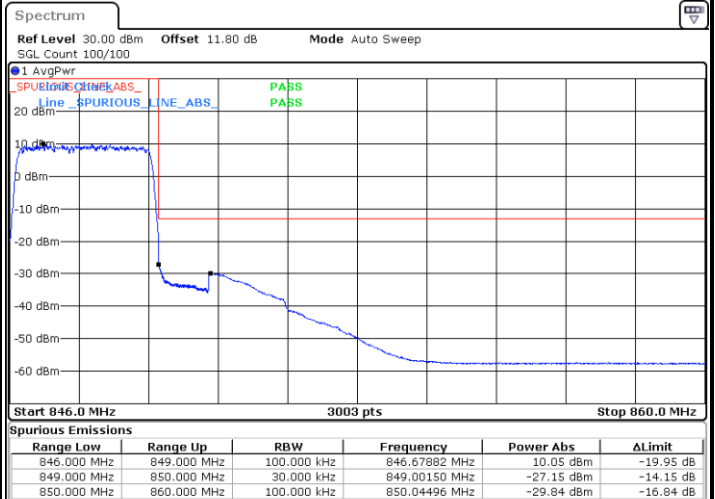
Date: 6.JAN.2018 00:38:10

Lowest Band Edge / Full RB



Date: 6.JAN.2018 00:30:03

Highest Band Edge / Full RB

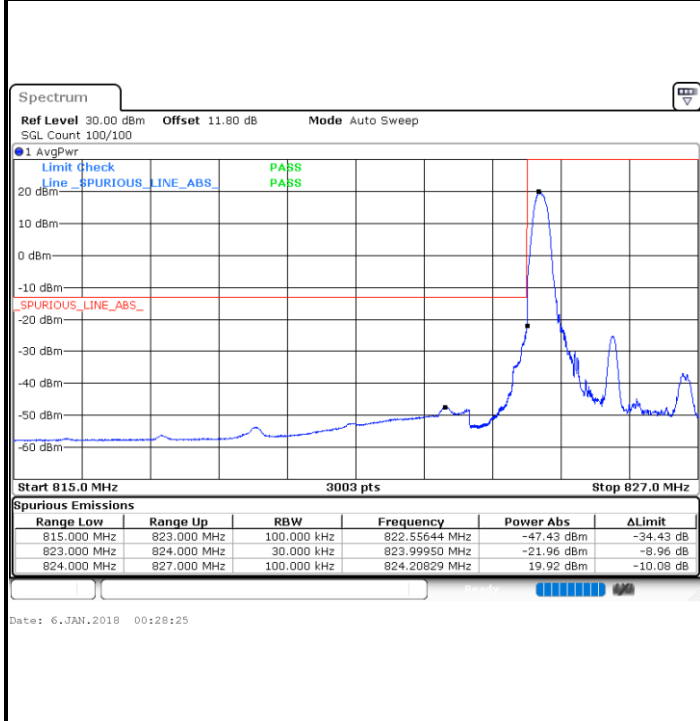


Date: 6.JAN.2018 00:41:26

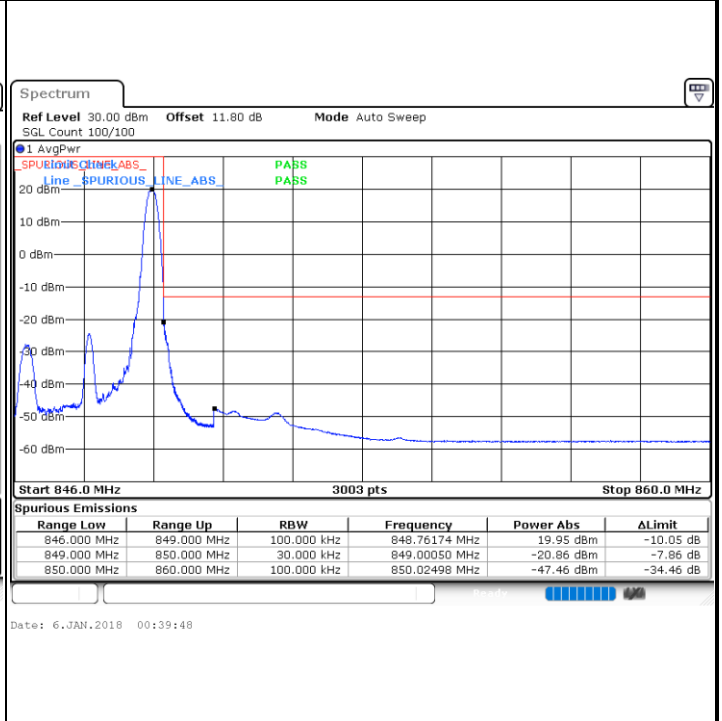


LTE Band 5 / 3MHz / 16QAM

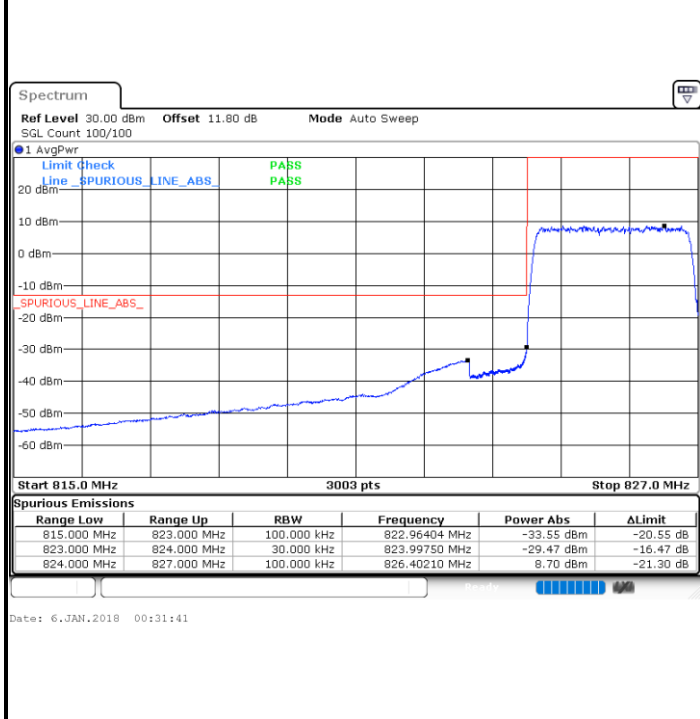
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



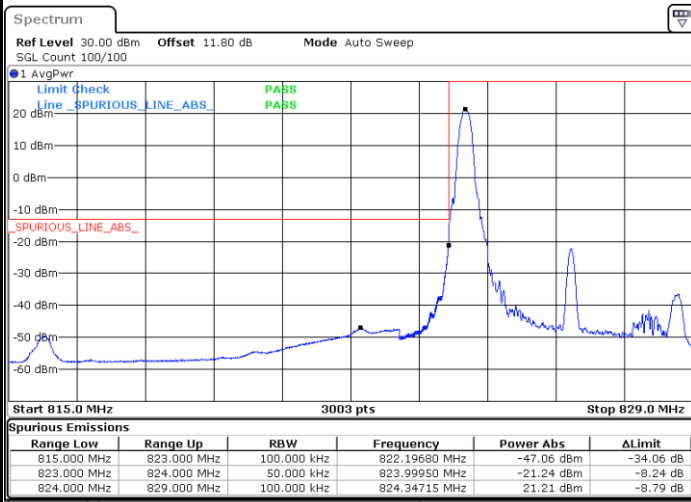
Highest Band Edge / Full RB





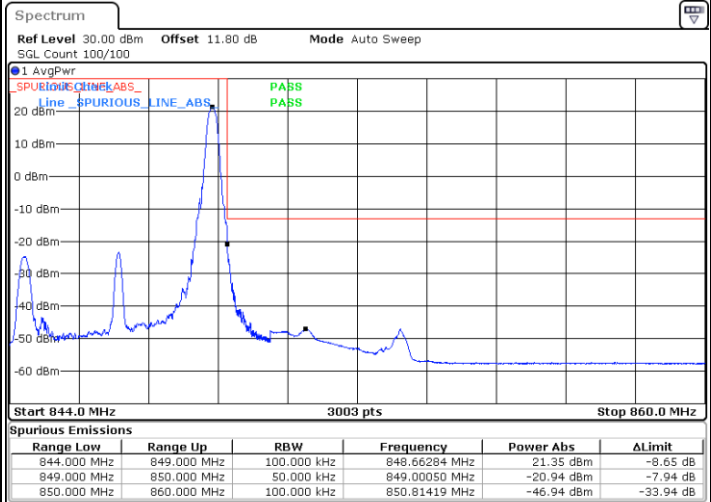
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



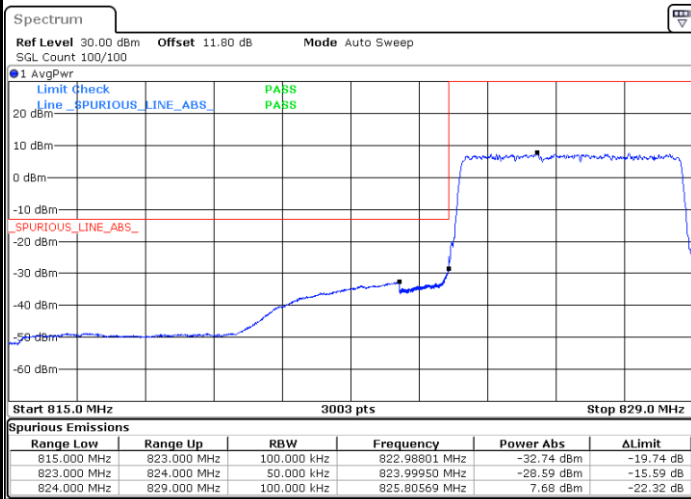
Date: 6.JAN.2018 00:47:07

Highest Band Edge / 1 RB



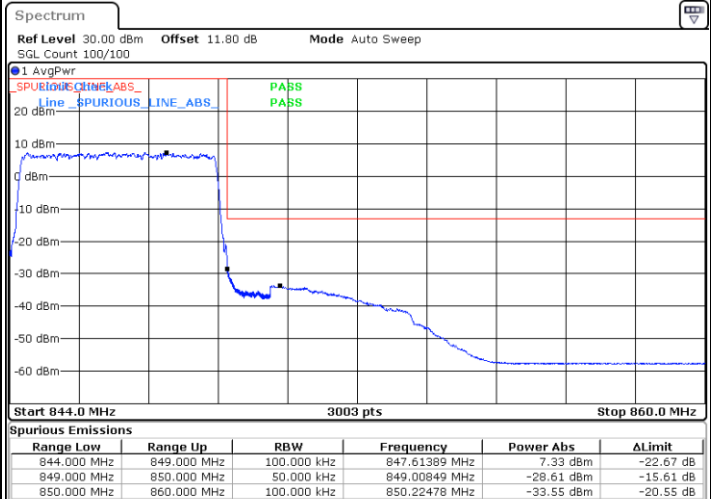
Date: 6.JAN.2018 00:58:30

Lowest Band Edge / Full RB



Date: 6.JAN.2018 00:50:23

Highest Band Edge / Full RB

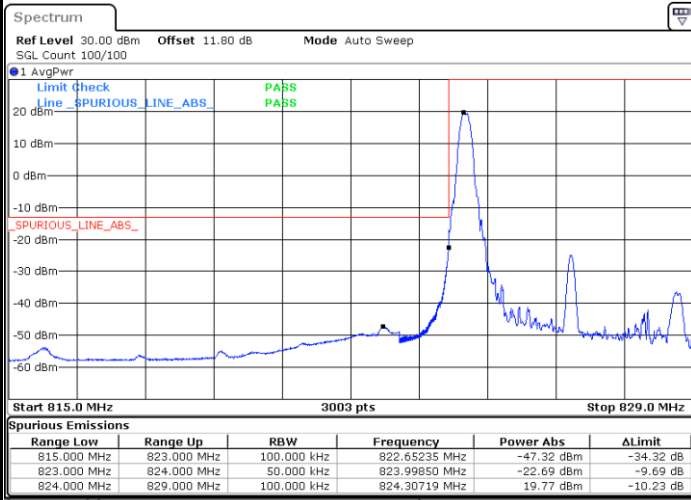


Date: 6.JAN.2018 01:01:46



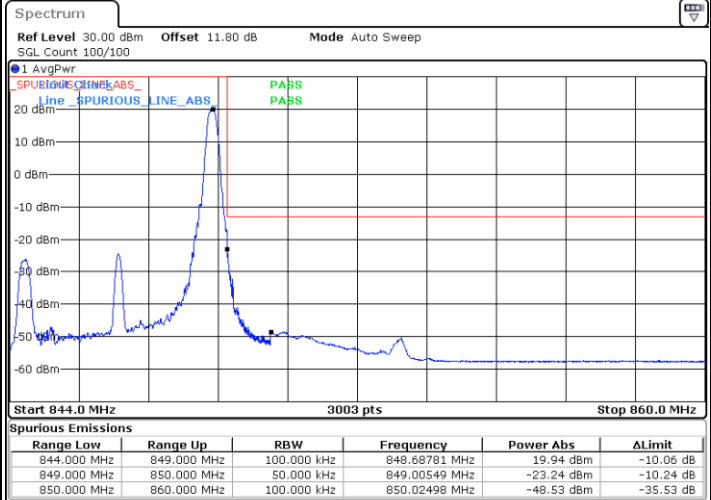
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



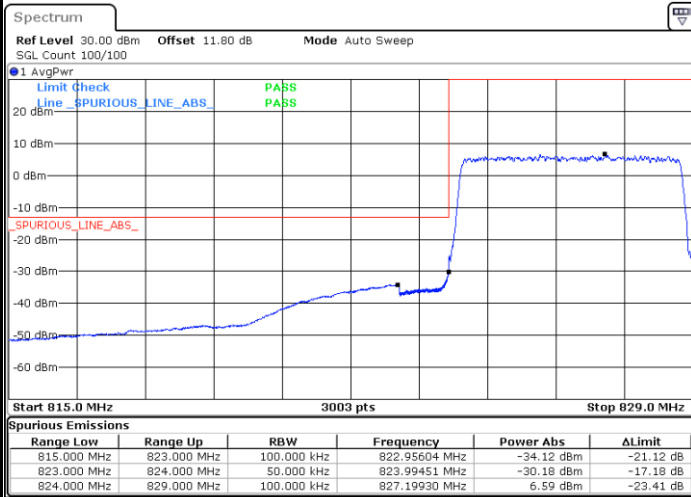
Date: 6.JAN.2018 00:48:45

Highest Band Edge / 1 RB



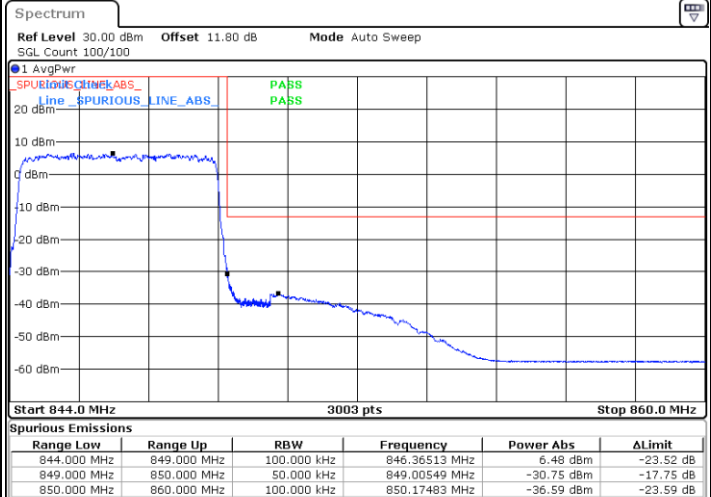
Date: 6.JAN.2018 01:00:08

Lowest Band Edge / Full RB



Date: 6.JAN.2018 00:52:01

Highest Band Edge / Full RB

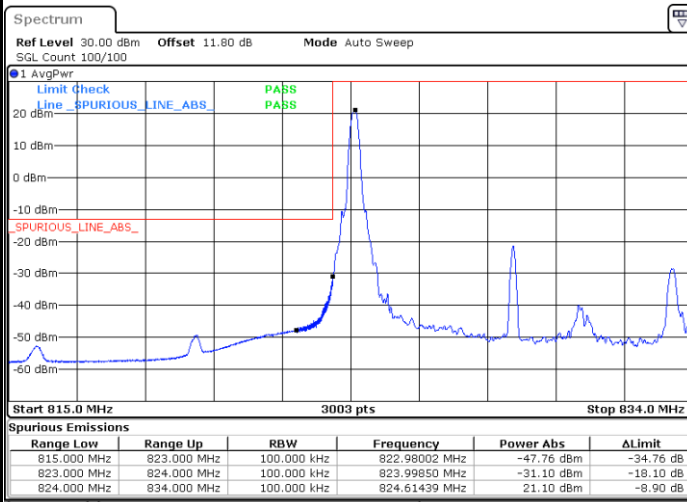


Date: 6.JAN.2018 01:03:24



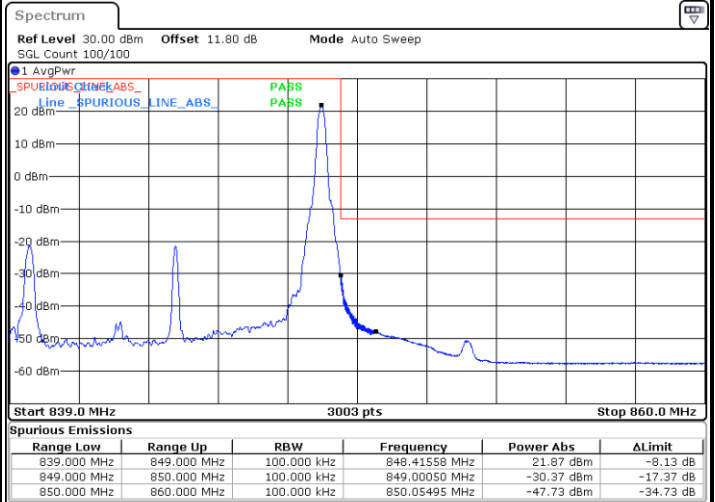
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



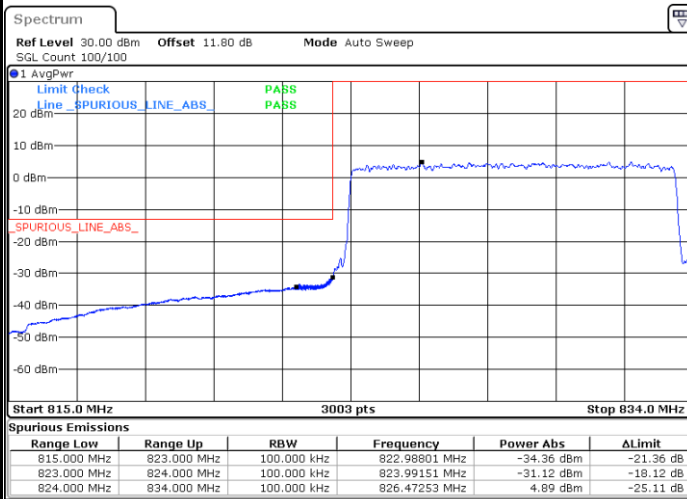
Date: 6.JAN.2018 01:07:27

Highest Band Edge / 1 RB



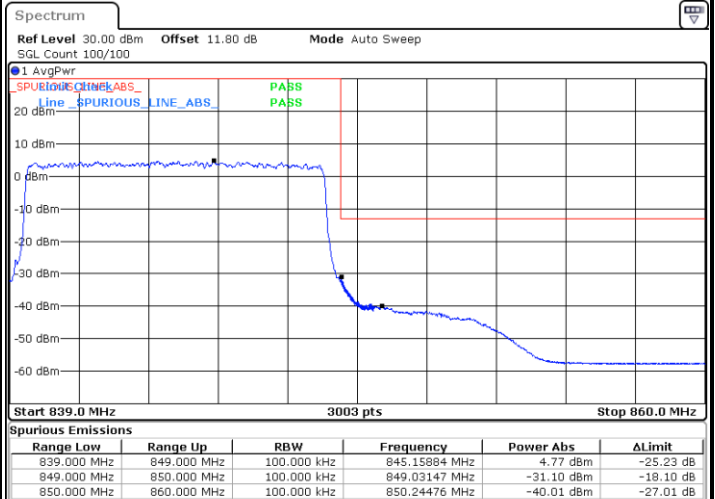
Date: 6.JAN.2018 01:18:50

Lowest Band Edge / Full RB



Date: 6.JAN.2018 01:10:43

Highest Band Edge / Full RB

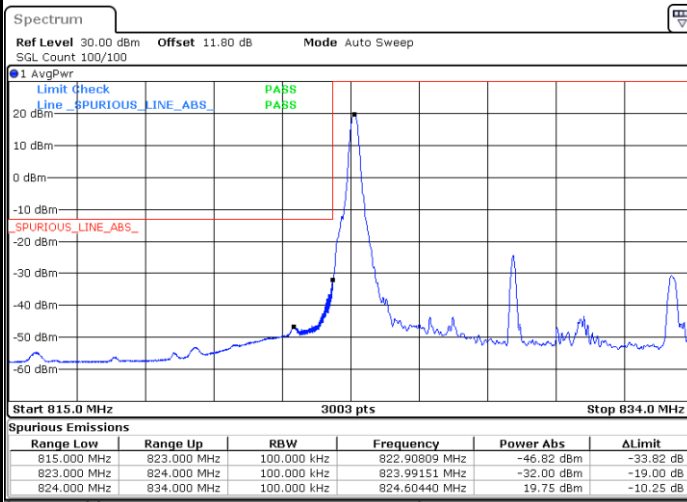


Date: 6.JAN.2018 01:22:06



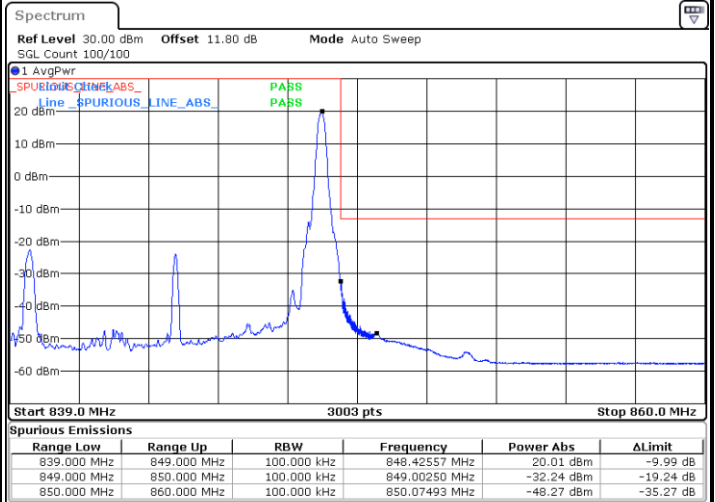
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



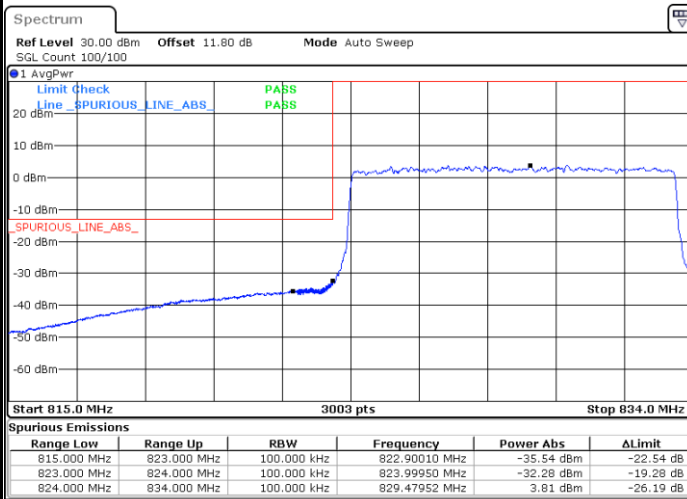
Date: 6.JAN.2018 01:09:05

Highest Band Edge / 1 RB



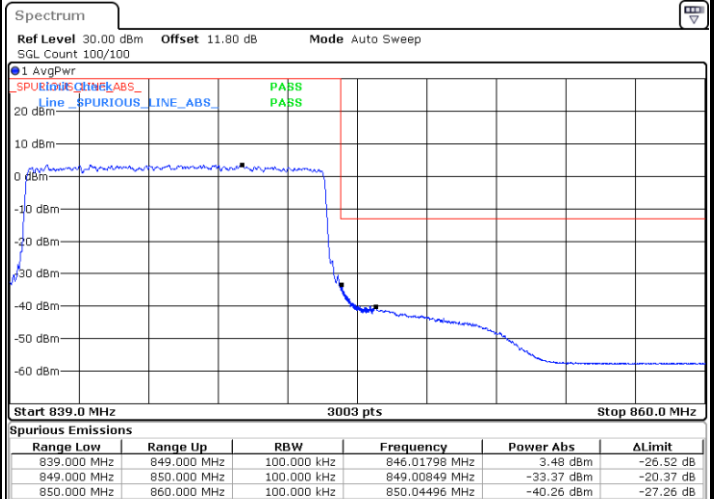
Date: 6.JAN.2018 01:20:28

Lowest Band Edge / Full RB



Date: 6.JAN.2018 01:12:21

Highest Band Edge / Full RB



Date: 6.JAN.2018 01:23:44



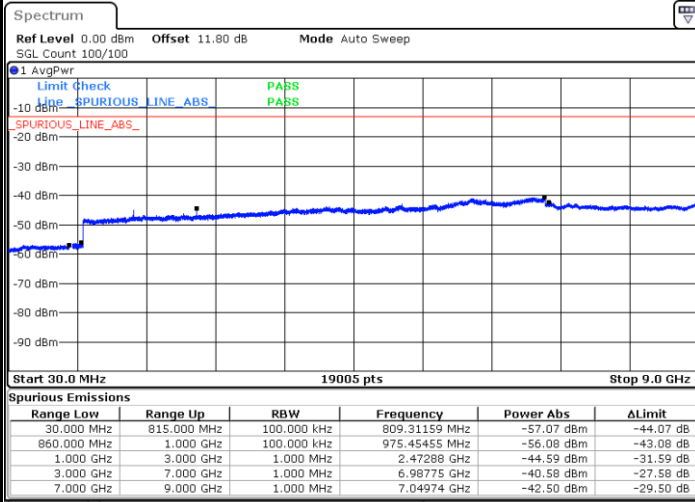
Conducted Spurious Emission



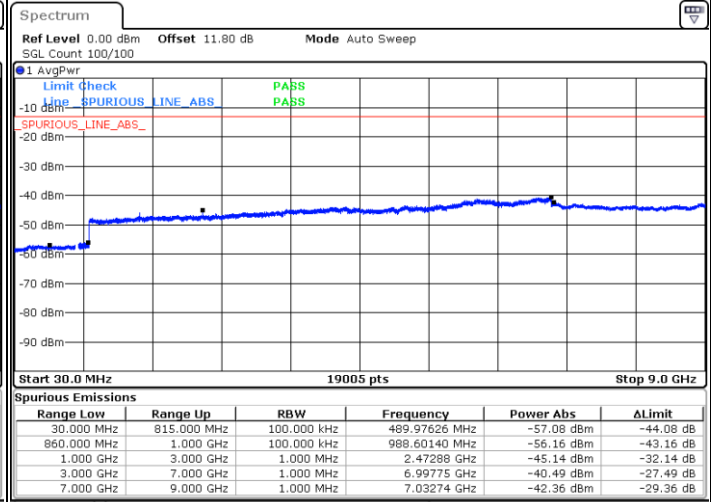
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



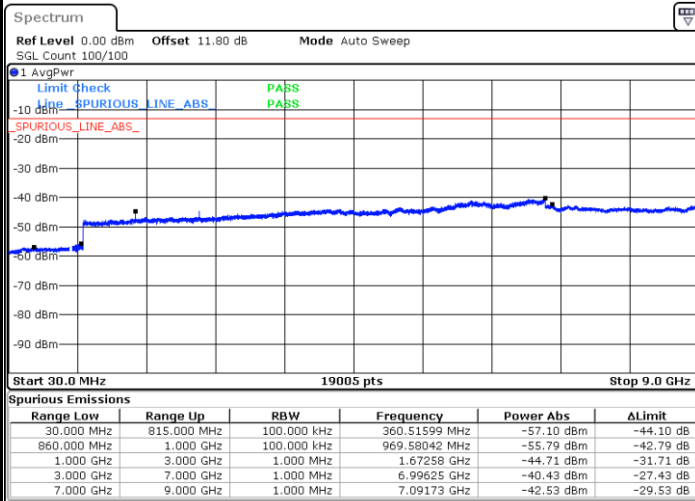
Date: 6. JAN. 2018 01:34:33



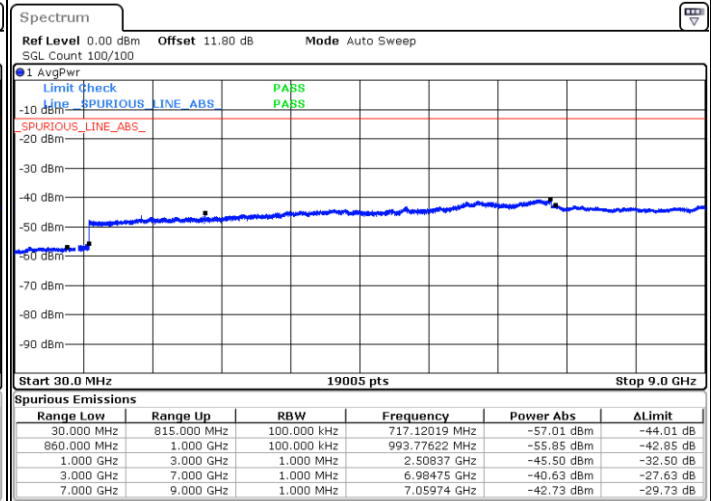
Date: 6. JAN. 2018 01:35:26

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 6. JAN. 2018 01:36:59

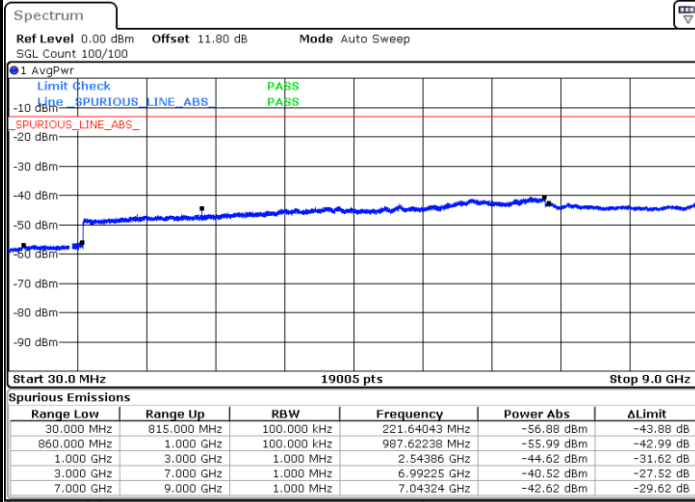


Date: 6. JAN. 2018 01:37:52



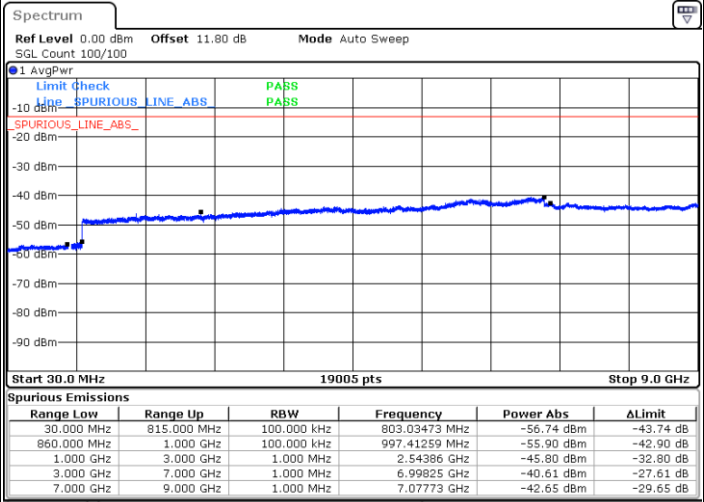
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 6.JAN.2018 01:45:56

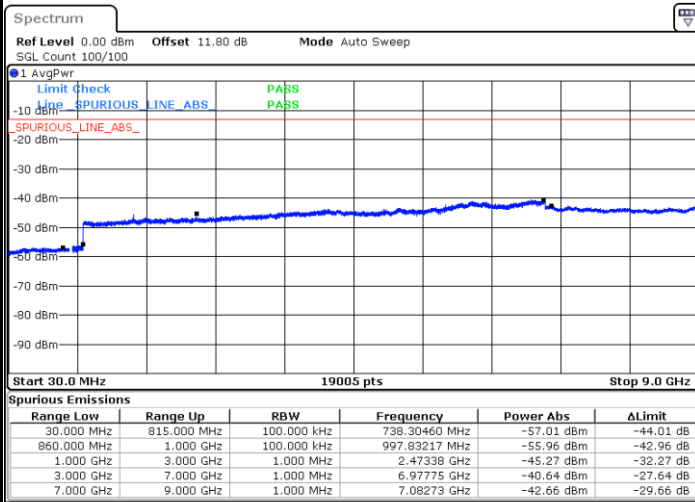
Highest Channel / 16QAM



Date: 6.JAN.2018 01:46:49

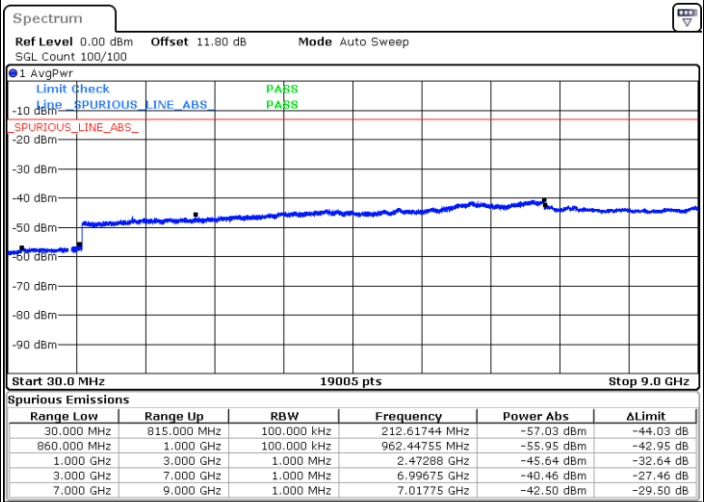
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 6.JAN.2018 00:32:34

Lowest Channel / 16QAM



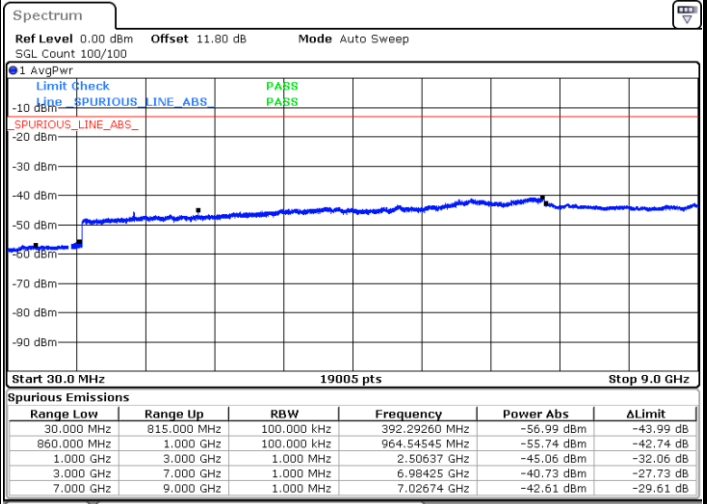
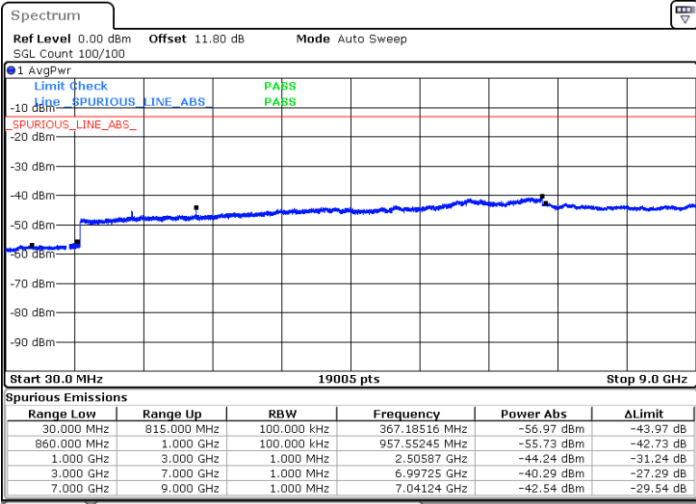
Date: 6.JAN.2018 00:33:27



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

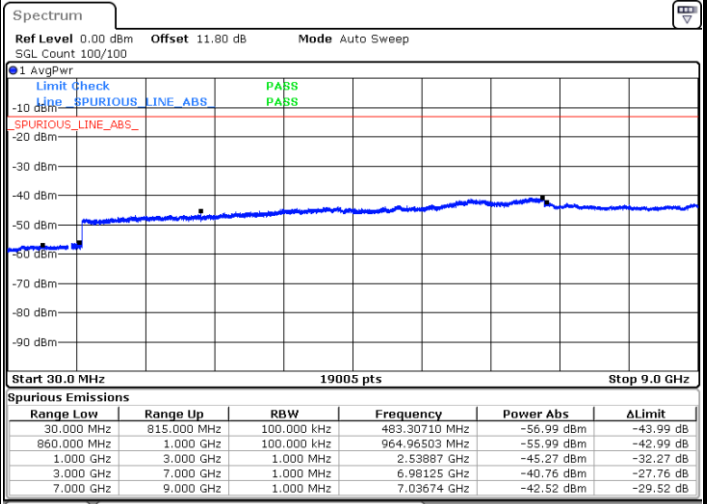
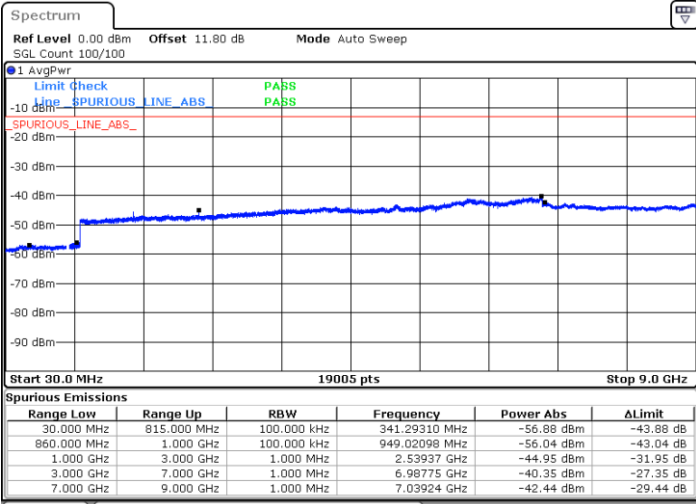


Date: 6. JAN. 2018 00:35:00

Date: 6. JAN. 2018 00:35:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6. JAN. 2018 00:43:57

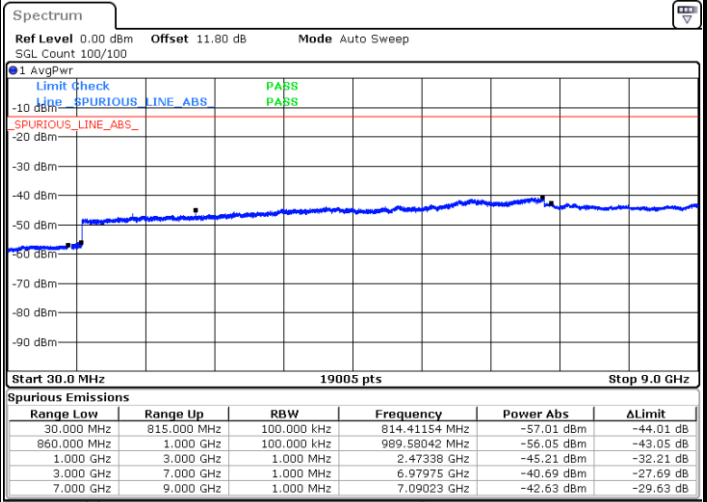
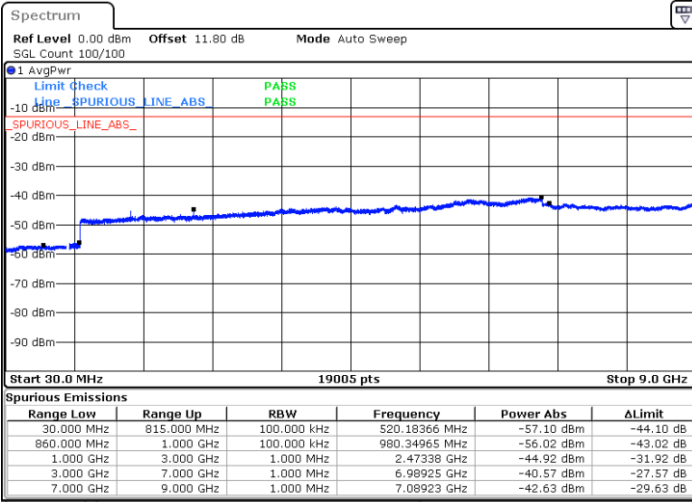
Date: 6. JAN. 2018 00:44:50



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

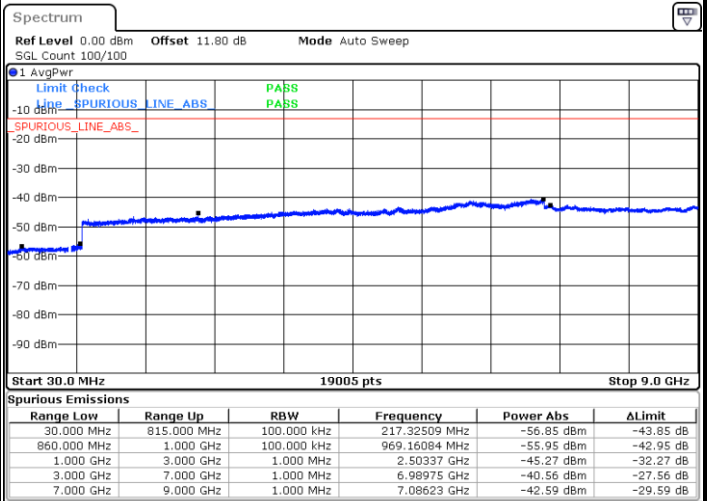
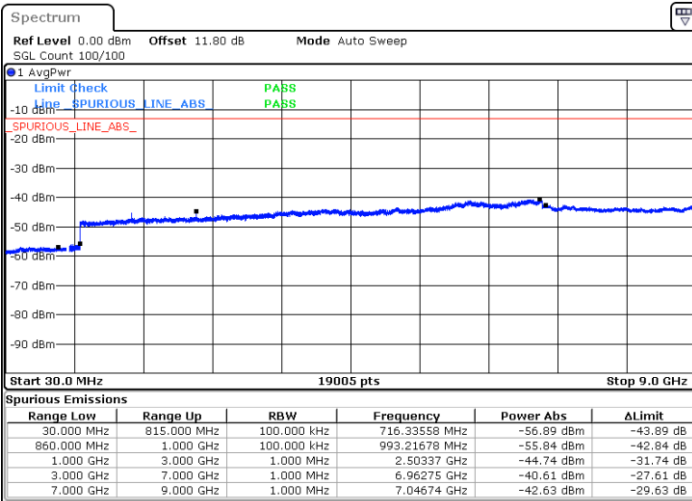


Date: 6. JAN. 2018 00:52:55

Date: 6. JAN. 2018 00:53:48

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 6. JAN. 2018 00:55:20

Date: 6. JAN. 2018 00:56:13