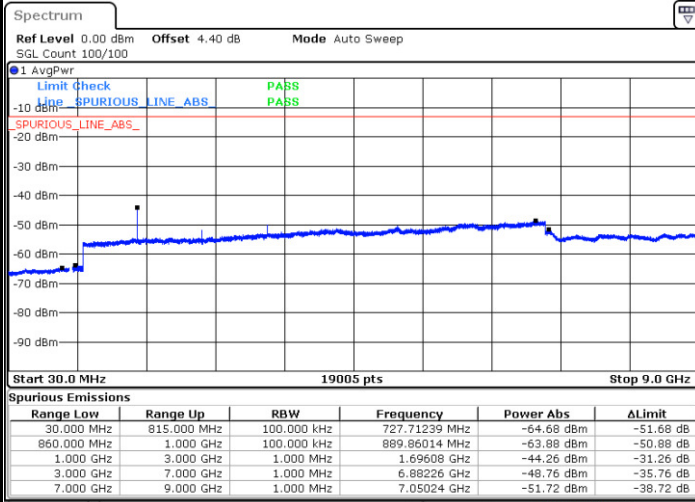




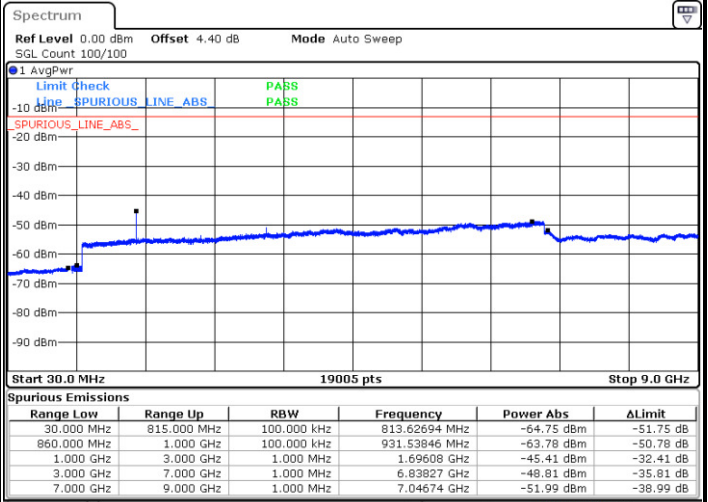
LTE Band 26 / 1.4MHz

Highest Channel / QPSK



Date: 26 DEC 2017 10:31:11

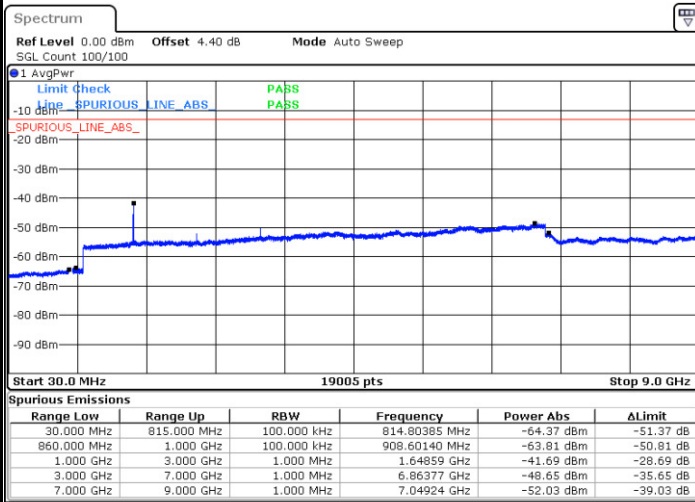
Highest Channel / 16QAM



Date: 26 DEC 2017 10:31:36

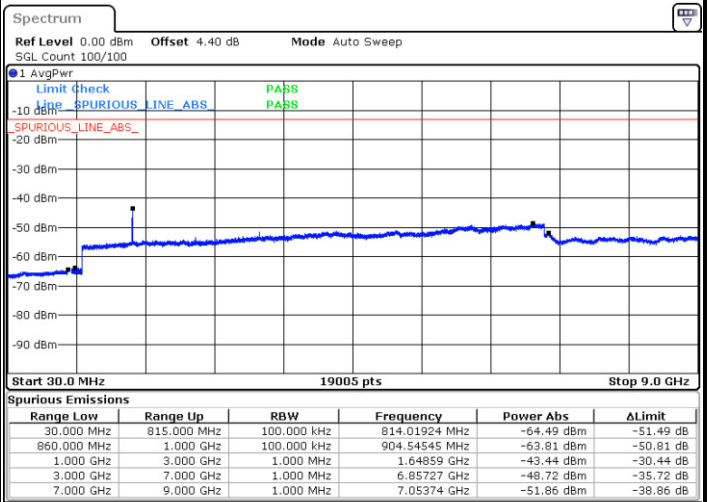
LTE Band 26 / 3MHz

Lowest Channel / QPSK



Date: 26 DEC 2017 10:32:13

Lowest Channel / 16QAM



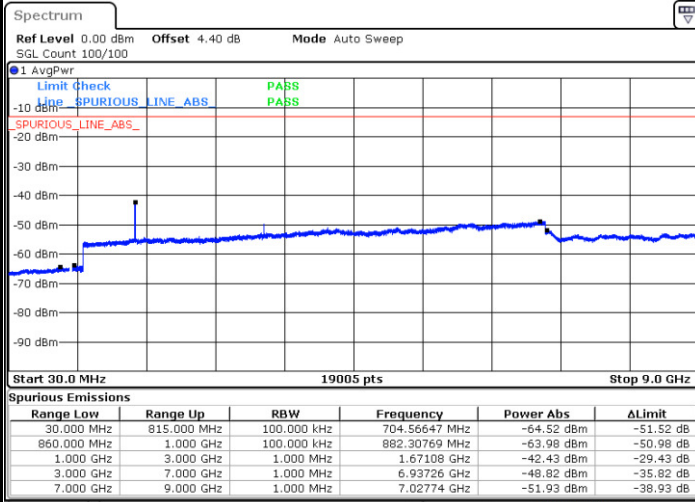
Date: 26 DEC 2017 10:32:40



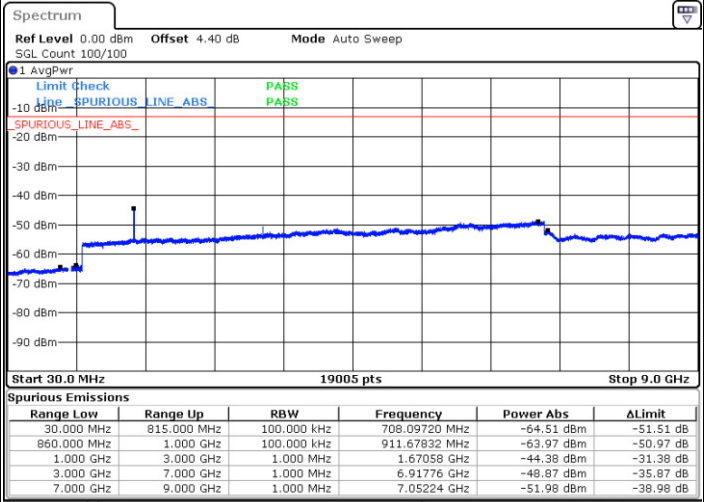
LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



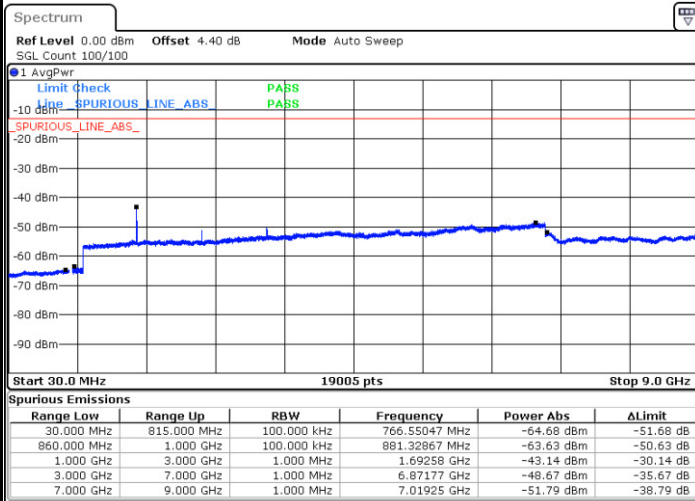
Date: 26 DEC.2017 10:33:34



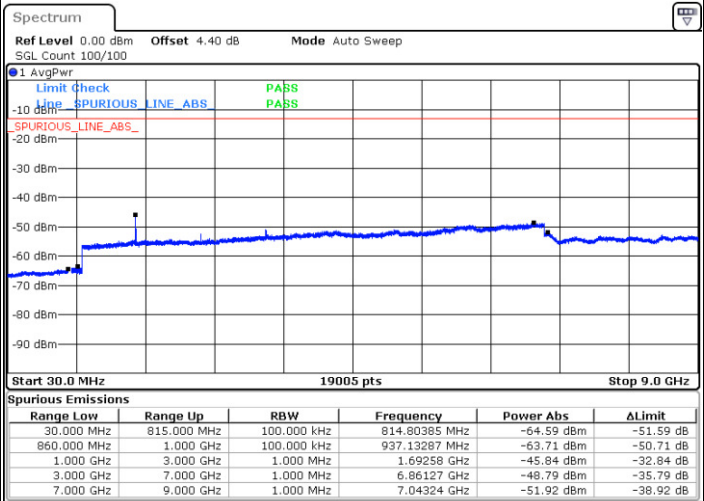
Date: 26 DEC.2017 10:33:09

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 DEC.2017 10:35:38

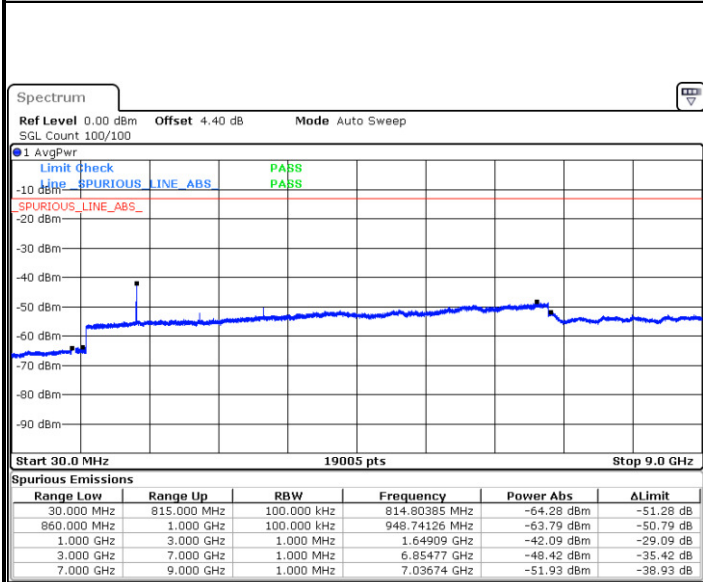


Date: 26 DEC.2017 10:36:03



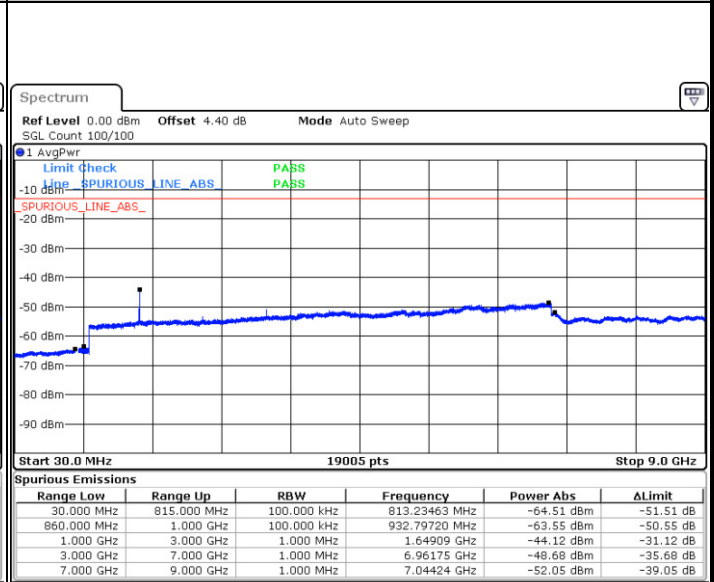
LTE Band 26 / 5MHz

Lowest Channel / QPSK



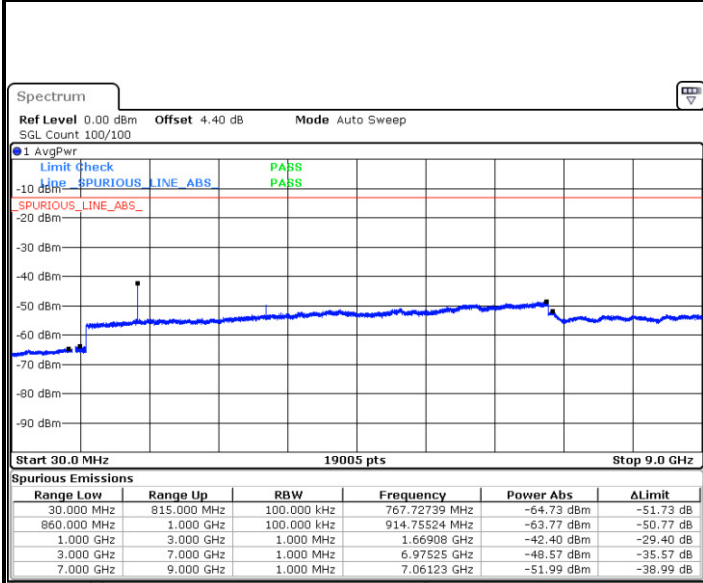
Date: 26 DEC.2017 10:41:46

Lowest Channel / 16QAM



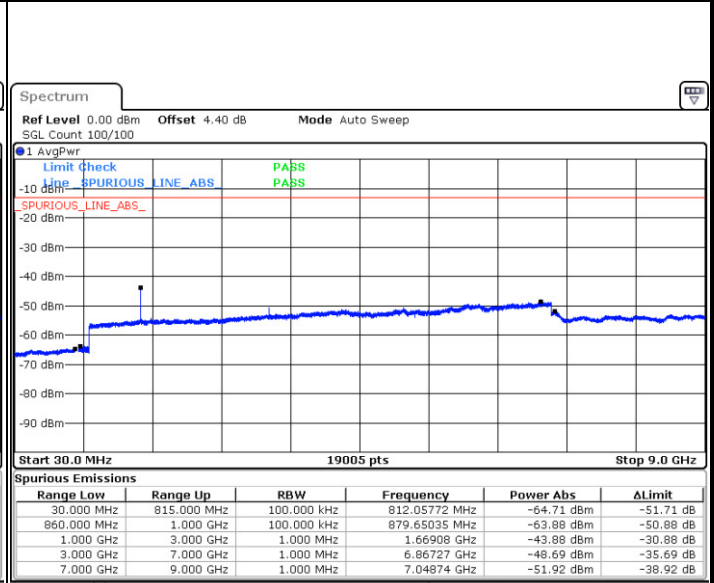
Date: 26 DEC.2017 10:42:20

Middle Channel / QPSK



Date: 26 DEC.2017 10:43:08

Middle Channel / 16QAM

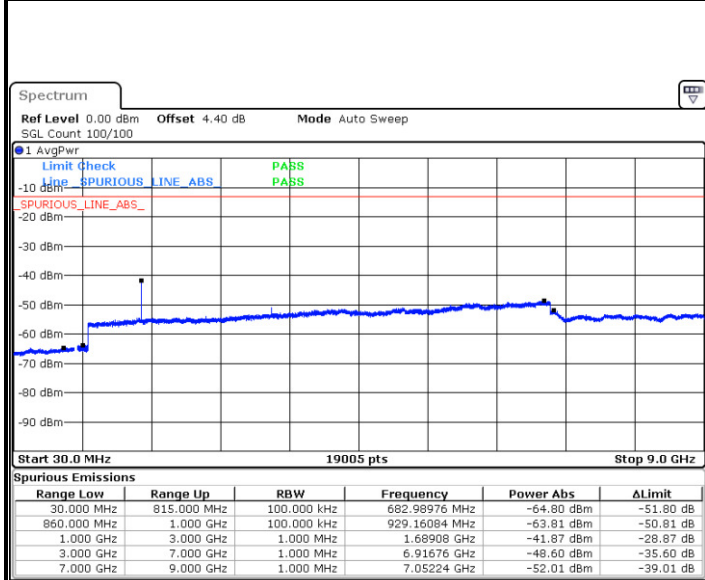


Date: 26 DEC.2017 10:42:43



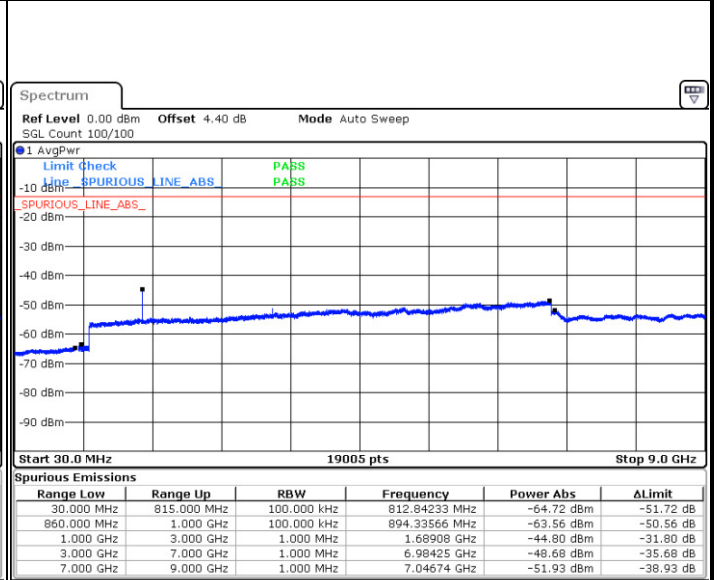
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 26 DEC 2017 10:45:59

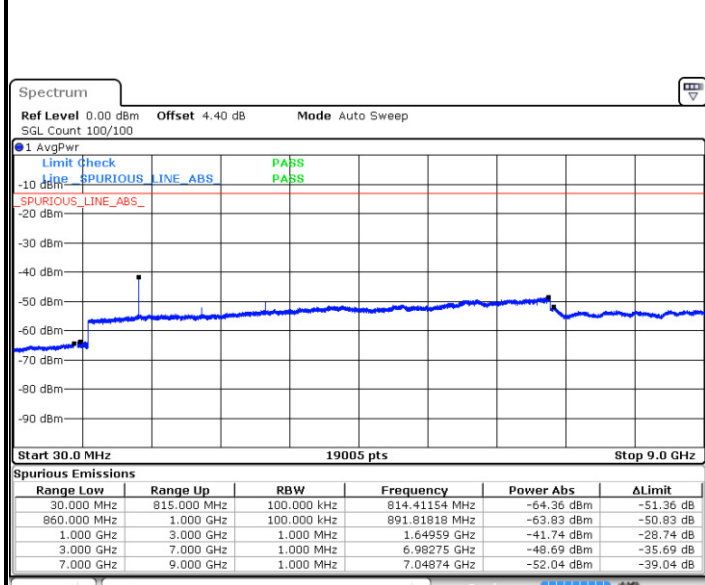
Highest Channel / 16QAM



Date: 26 DEC 2017 10:46:25

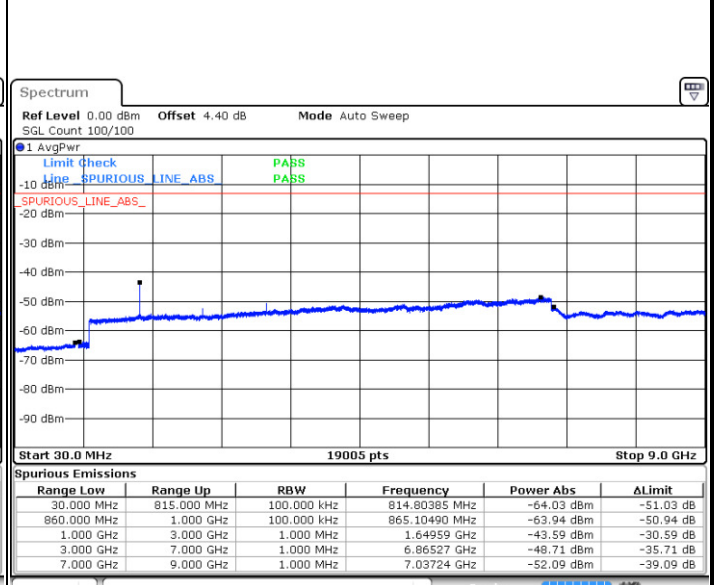
LTE Band 26 / 10MHz

Lowest Channel / QPSK



Date: 26 DEC 2017 10:46:58

Lowest Channel / 16QAM



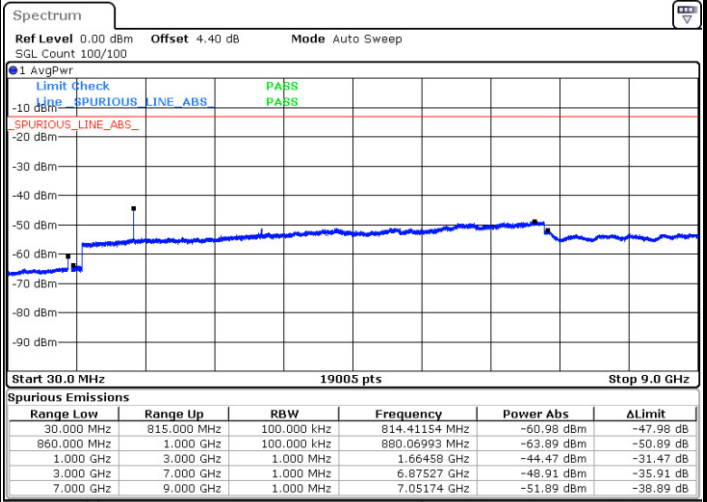
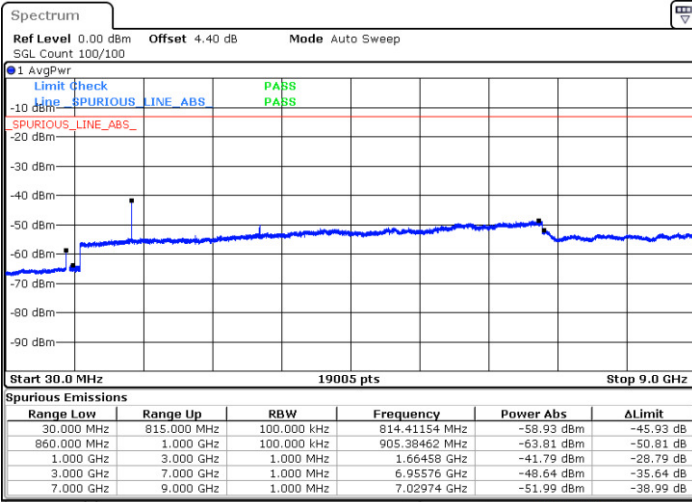
Date: 26 DEC 2017 10:47:23



LTE Band 26 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

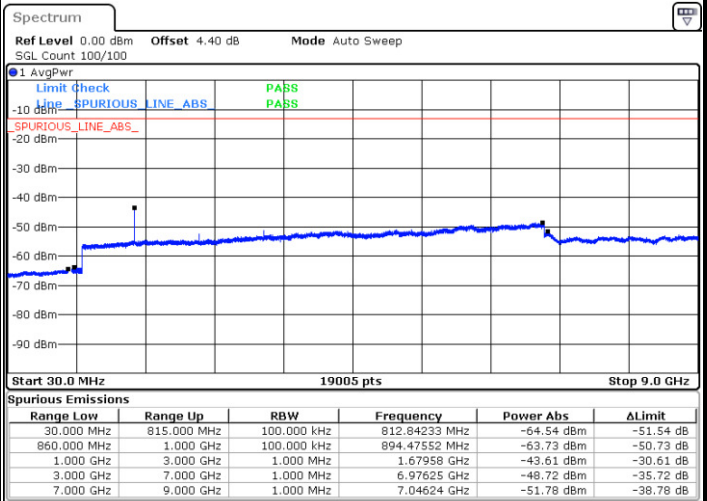
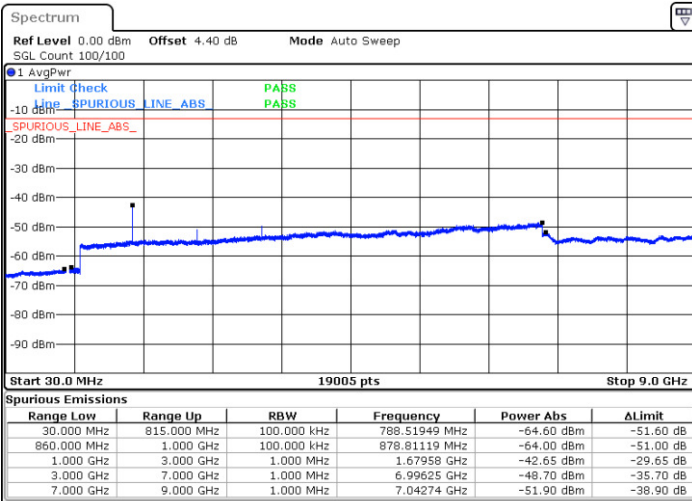


Date: 26 DEC.2017 10:48:12

Date: 26 DEC.2017 10:47:48

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 DEC.2017 10:48:41

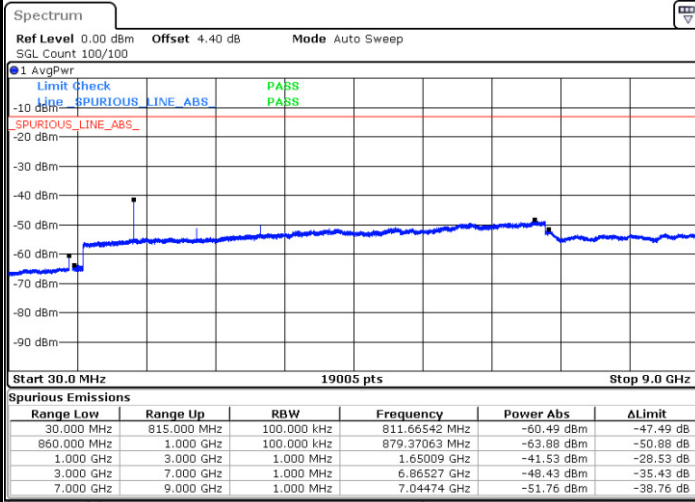
Date: 26 DEC.2017 10:48:06



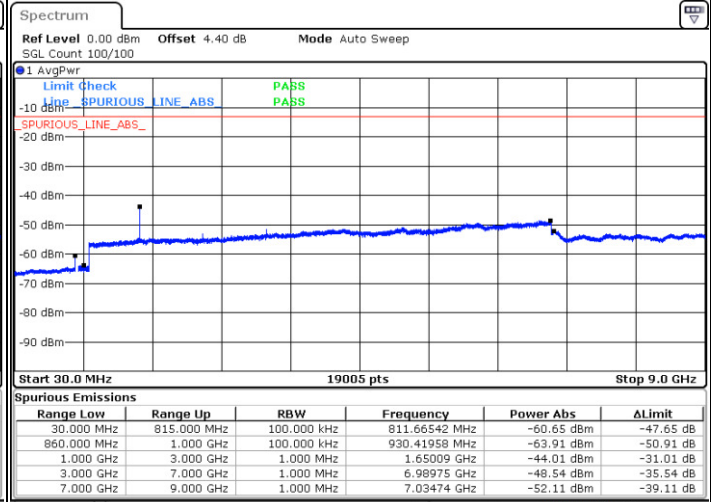
LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



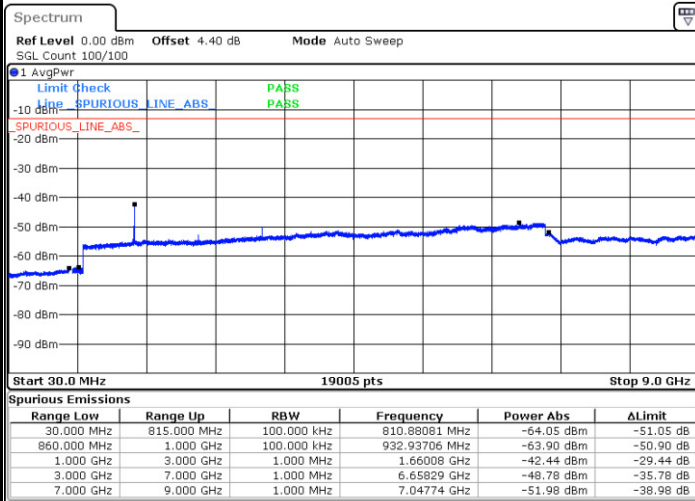
Date: 26 DEC. 2017 10:13:41



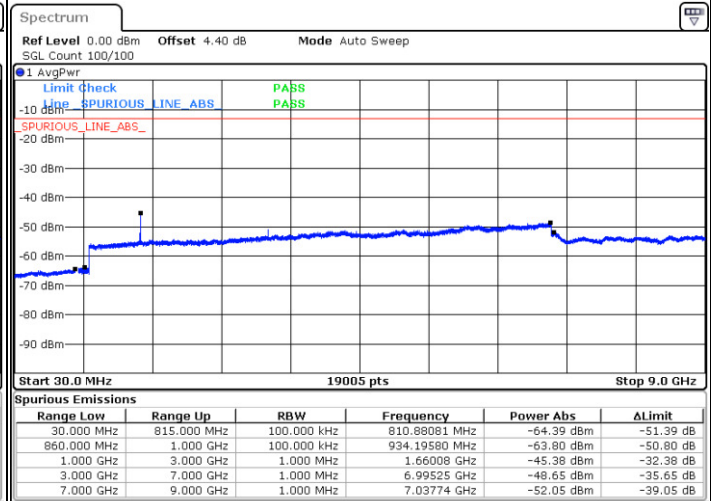
Date: 26 DEC. 2017 10:14:05

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 26 DEC. 2017 10:15:00



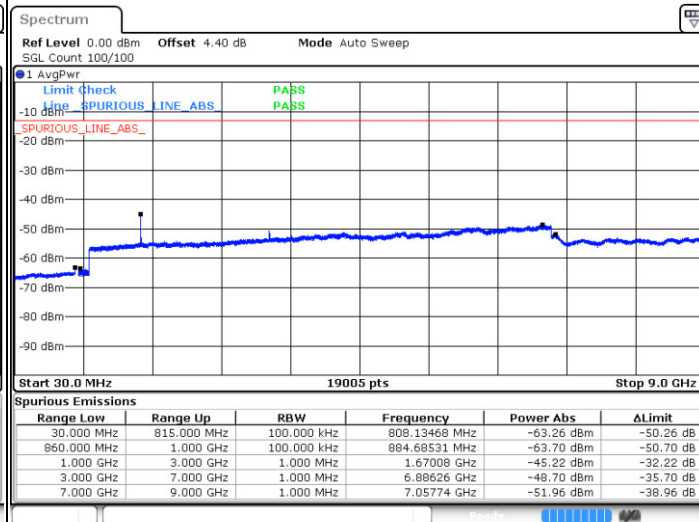
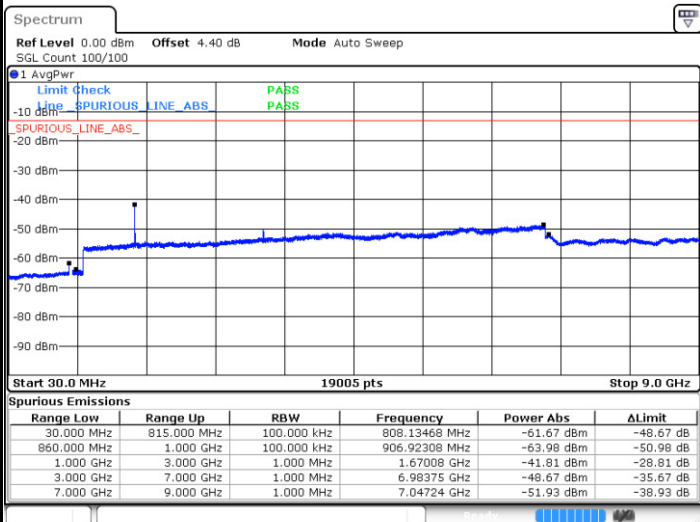
Date: 26 DEC. 2017 10:14:33



LTE Band 26 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



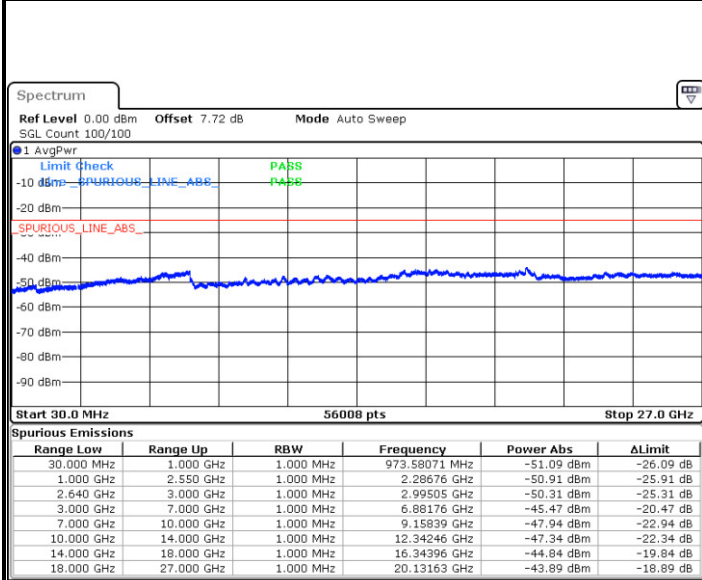
Date: 26 DEC.2017 10:15:34

Date: 26 DEC.2017 10:15:59



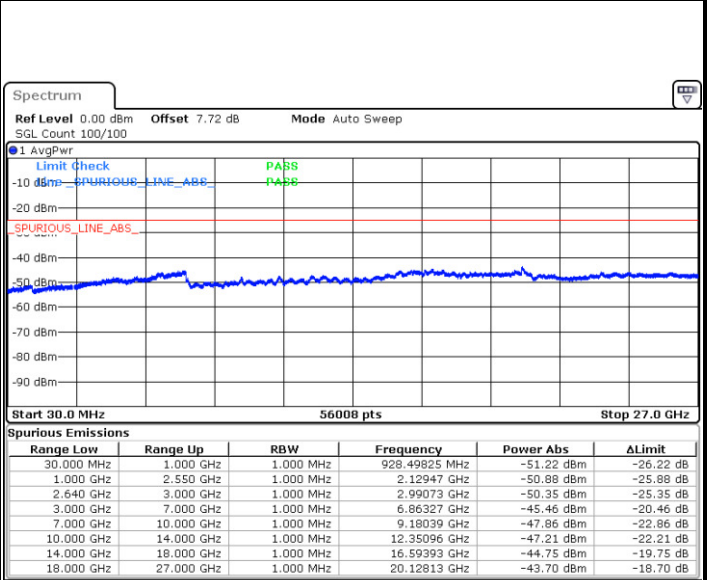
LTE Band 38 / 5MHz

Lowest Channel / QPSK



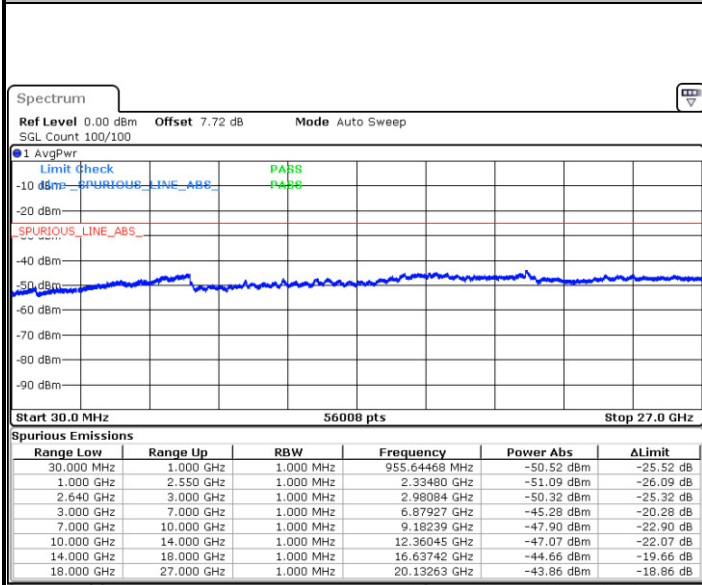
Date: 26 DEC.2017 07:55:42

Lowest Channel / 16QAM



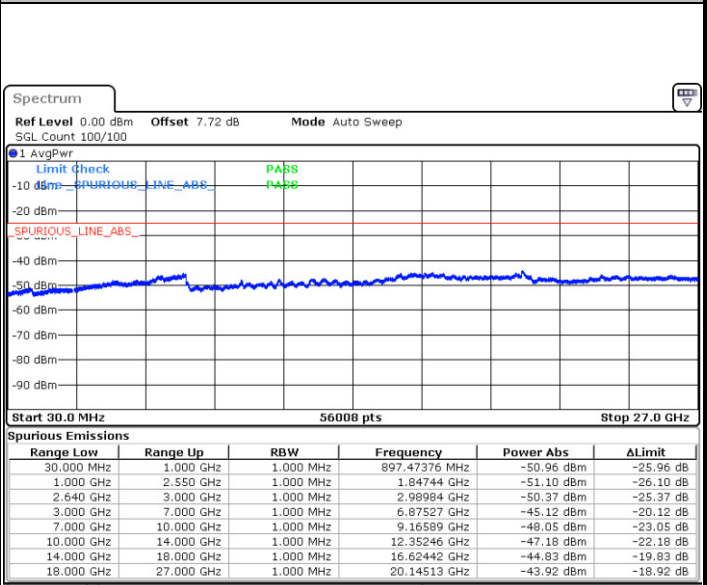
Date: 26 DEC.2017 07:57:58

Middle Channel / QPSK



Date: 26 DEC.2017 07:59:42

Middle Channel / 16QAM

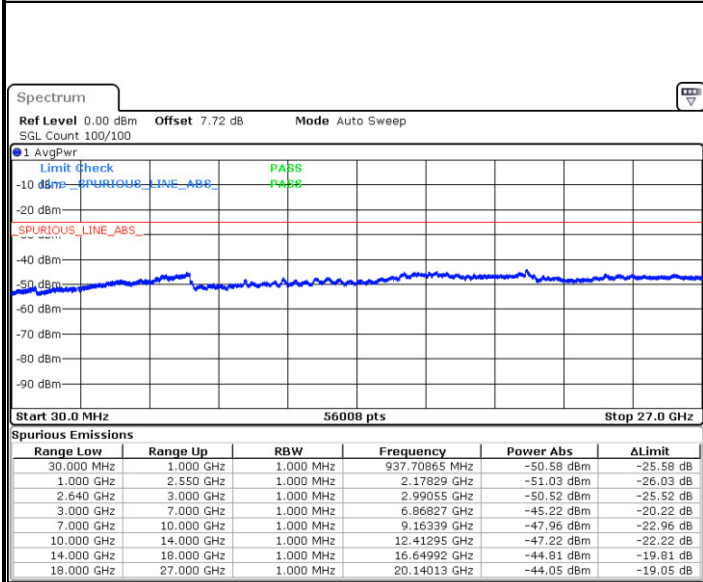


Date: 26 DEC.2017 07:58:53



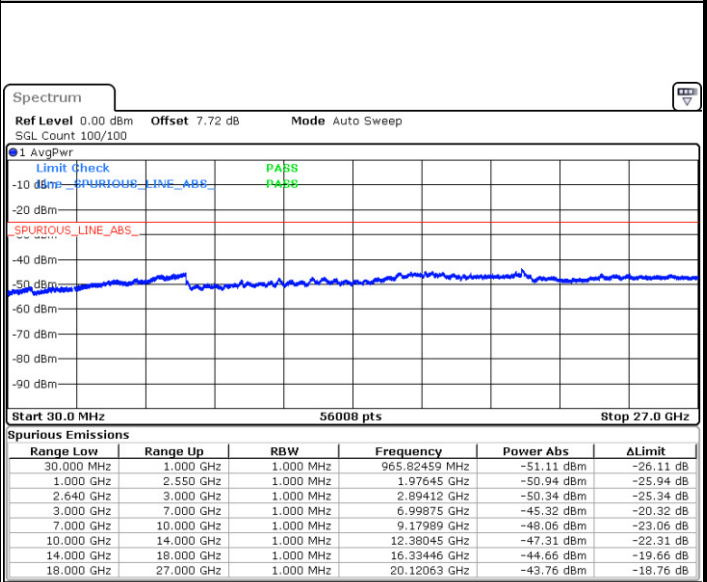
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 26 DEC 2017 08:01:36

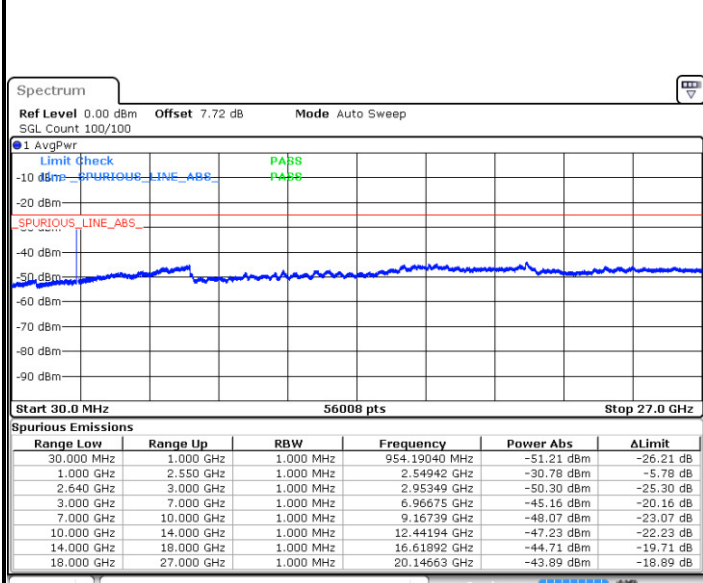
Highest Channel / 16QAM



Date: 26 DEC 2017 08:02:33

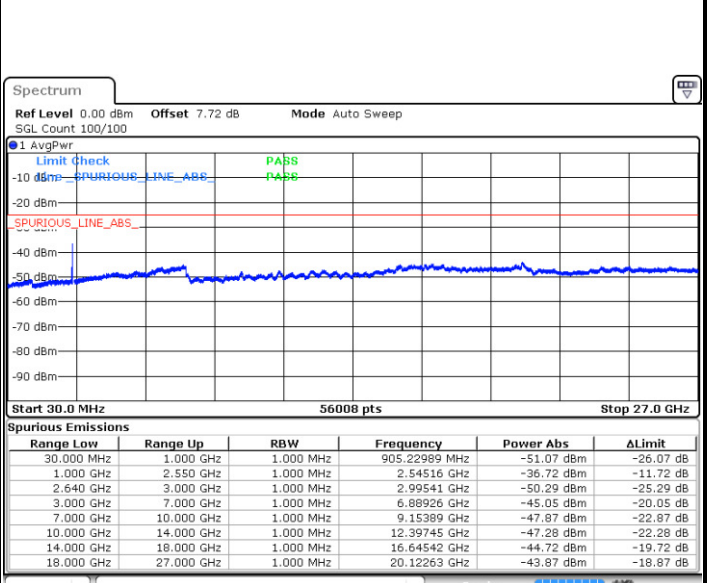
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 26 DEC 2017 08:04:03

Lowest Channel / 16QAM



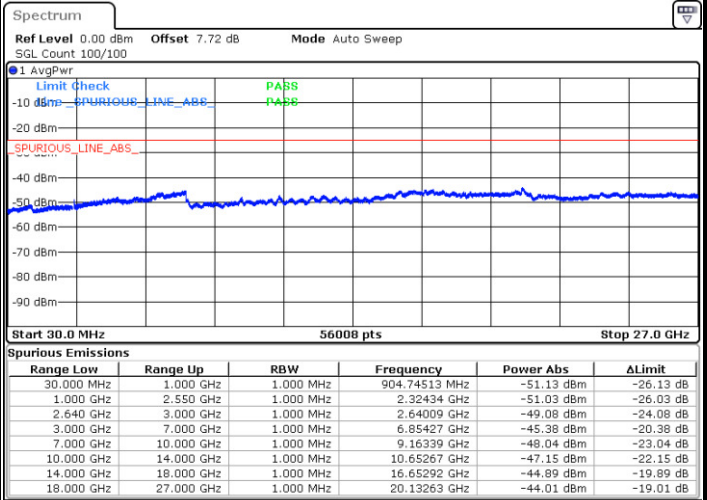
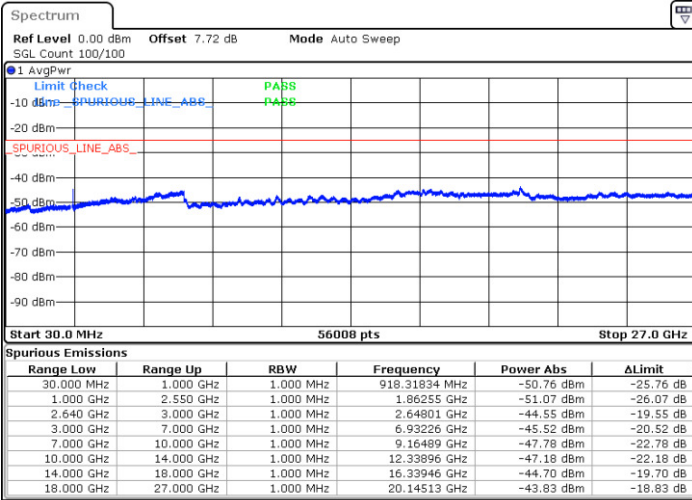
Date: 26 DEC 2017 08:06:00



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

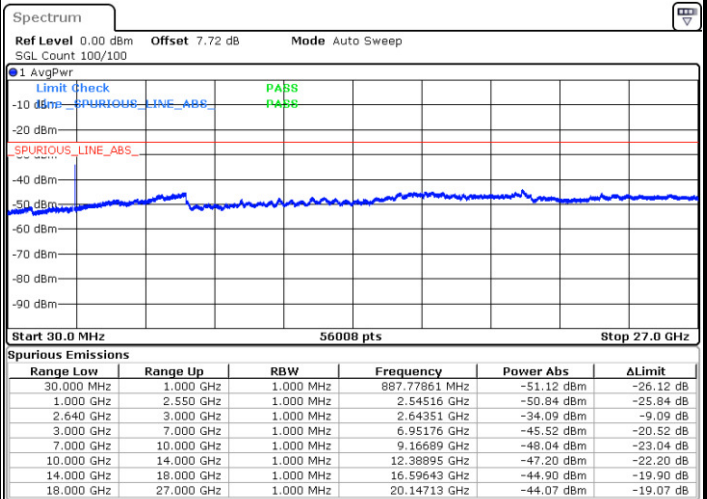
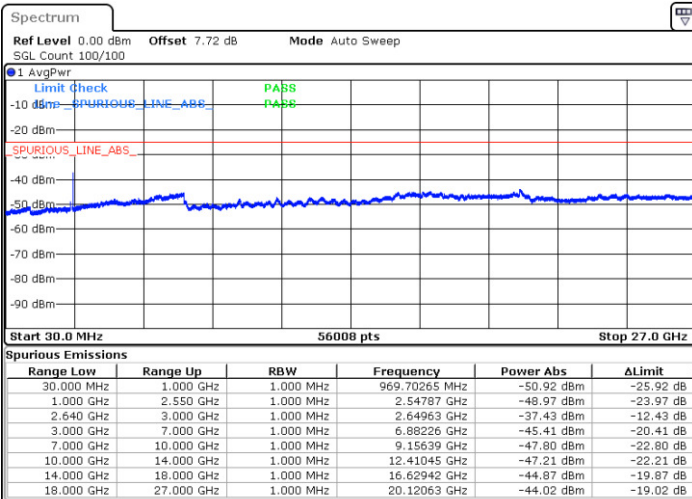


Date: 26 DEC.2017 08:07:59

Date: 26 DEC.2017 08:08:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 DEC.2017 08:10:58

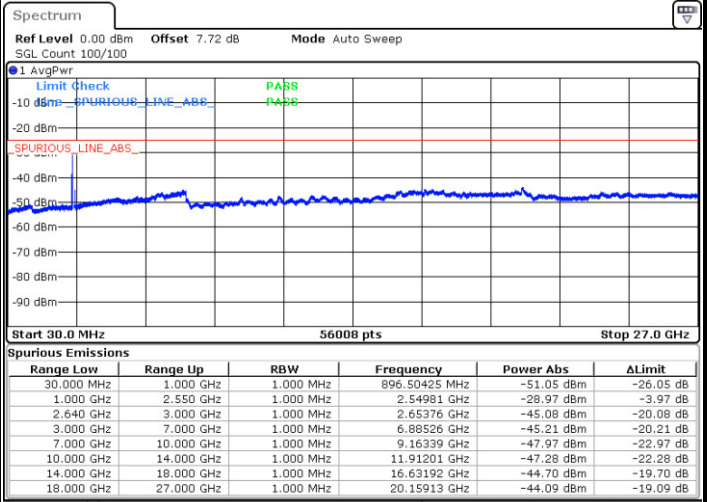
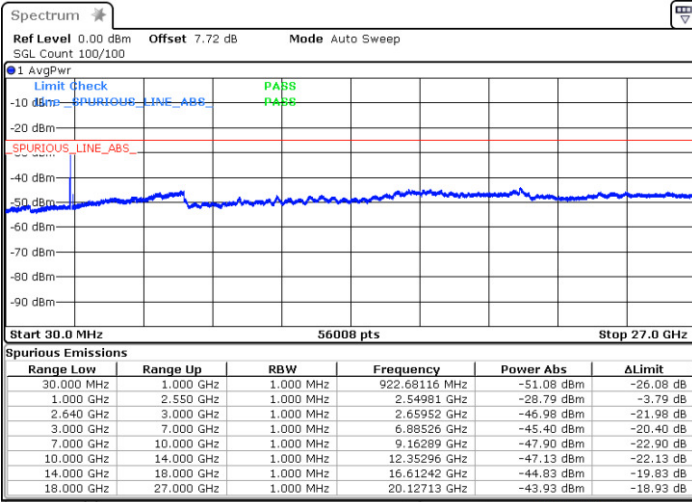
Date: 26 DEC.2017 08:09:46



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

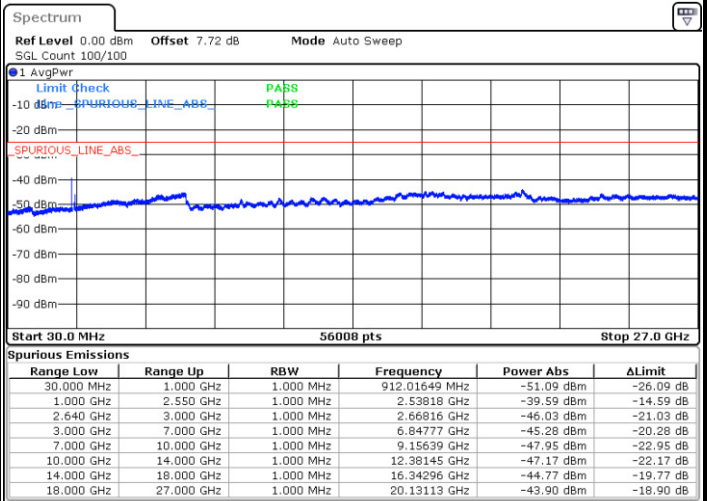
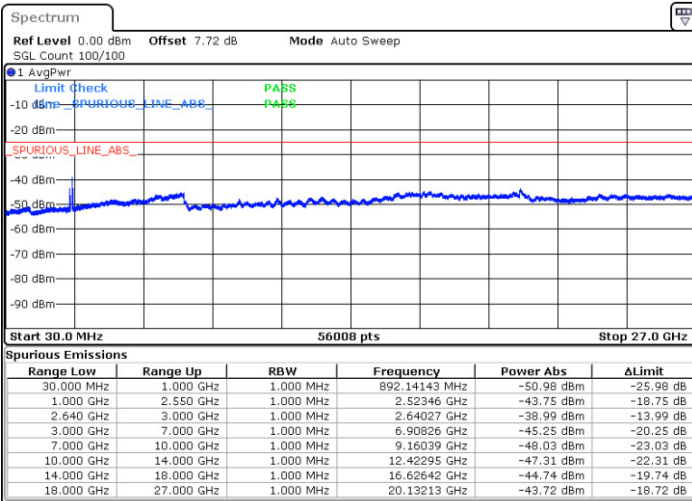


Date: 26 DEC.2017 08:13:12

Date: 26 DEC.2017 08:14:06

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 26 DEC.2017 08:16:20

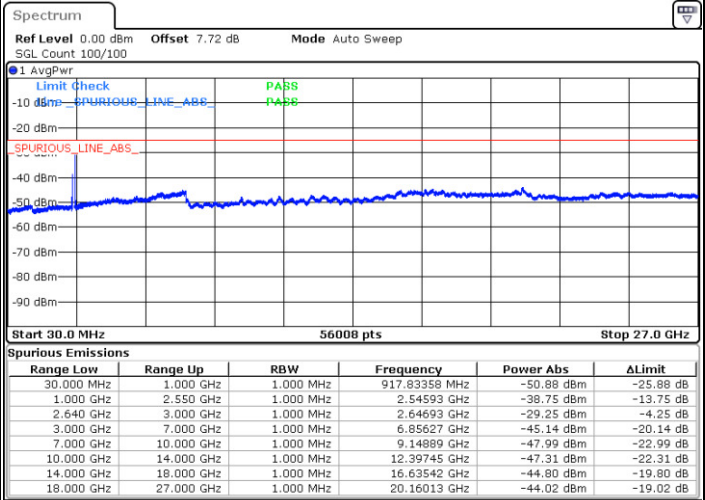
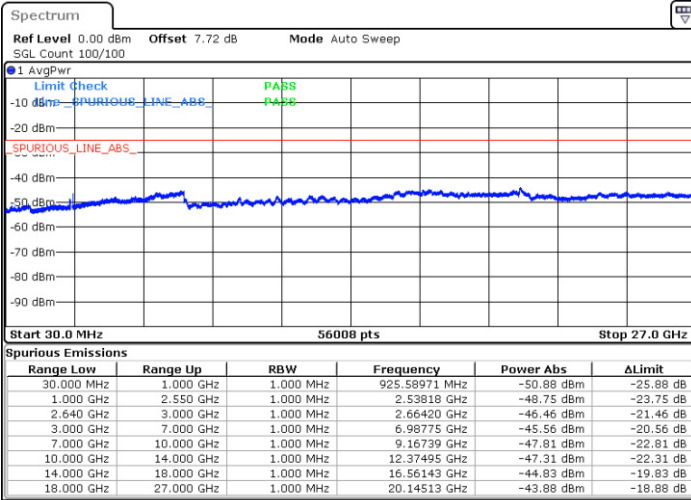
Date: 26 DEC.2017 08:15:03



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



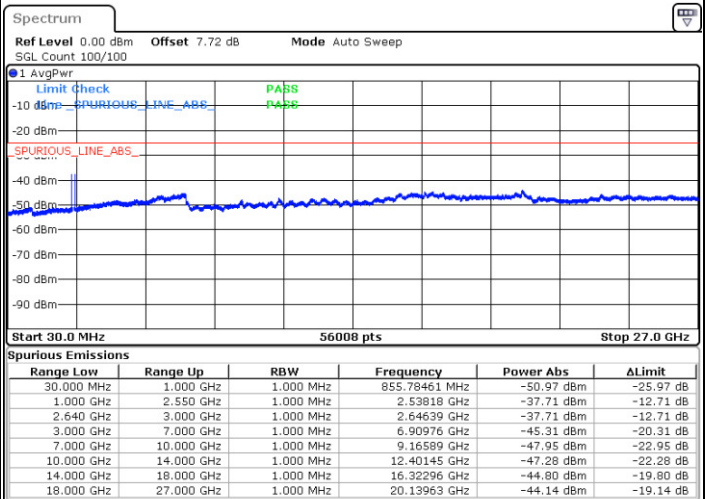
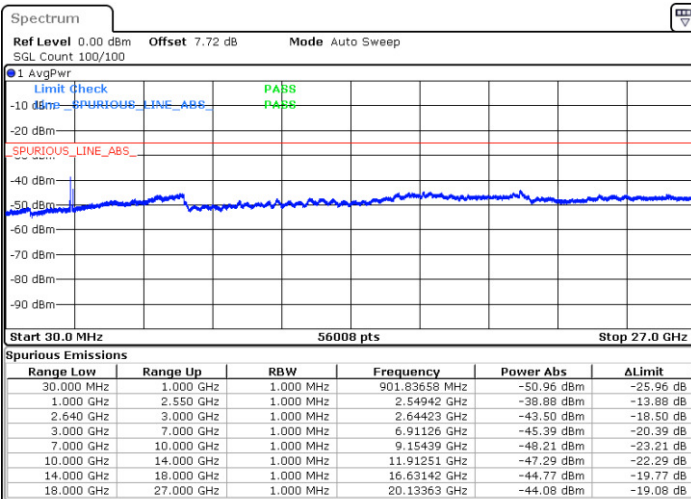
Date: 26 DEC 2017 08:18:51

Date: 26 DEC 2017 08:20:46

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 26 DEC 2017 08:21:56

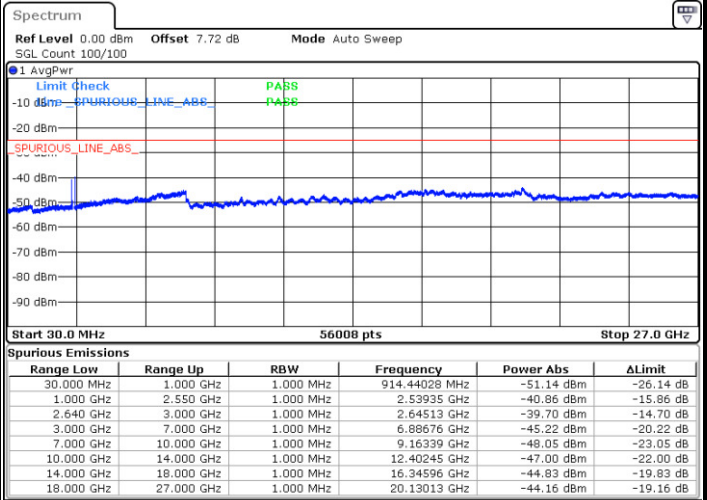
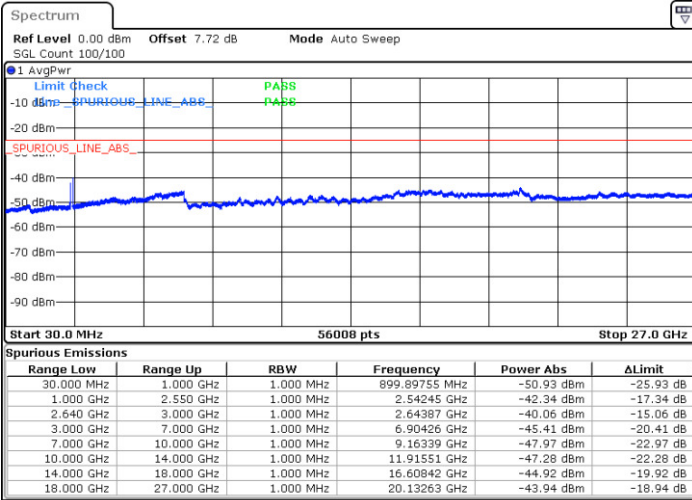
Date: 26 DEC 2017 08:22:55



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

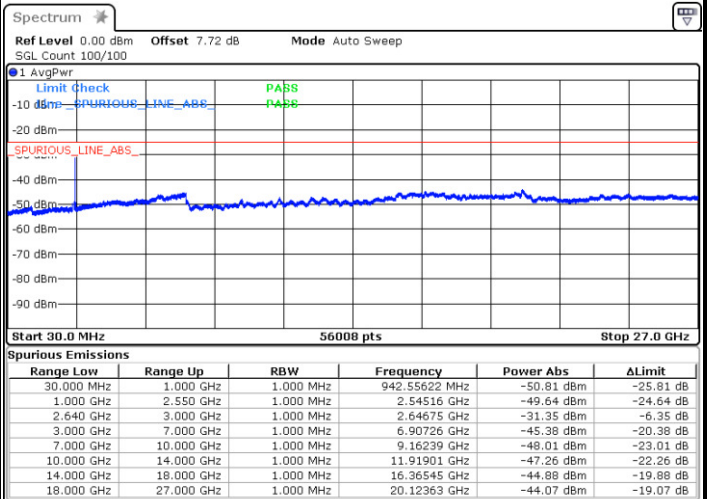
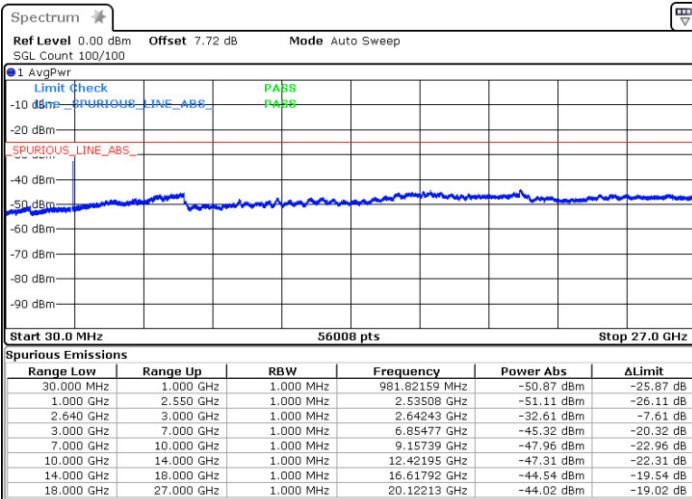


Date: 26 DEC.2017 08:25:05

Date: 26 DEC.2017 08:24:01

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 DEC.2017 08:26:20

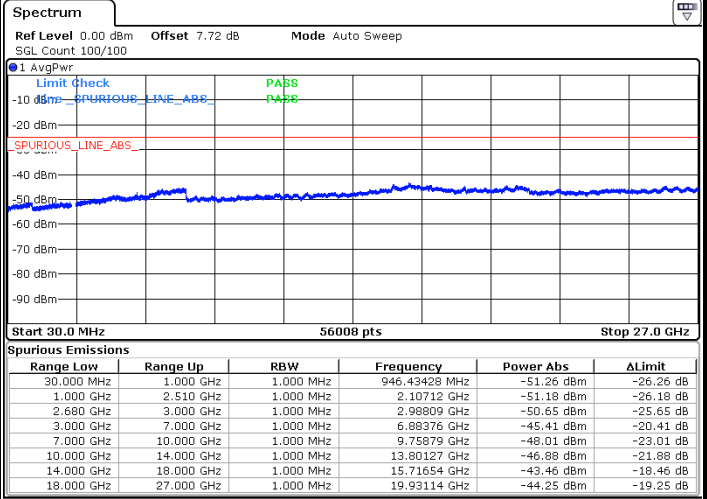
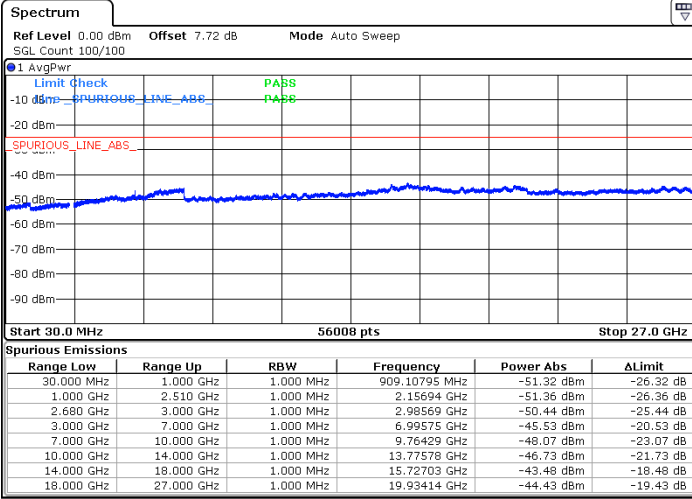
Date: 26 DEC.2017 08:27:46



LTE Band 41 / 5MHz

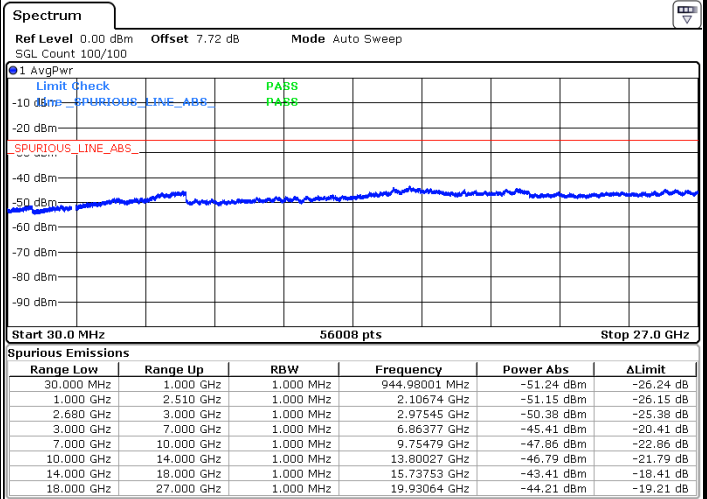
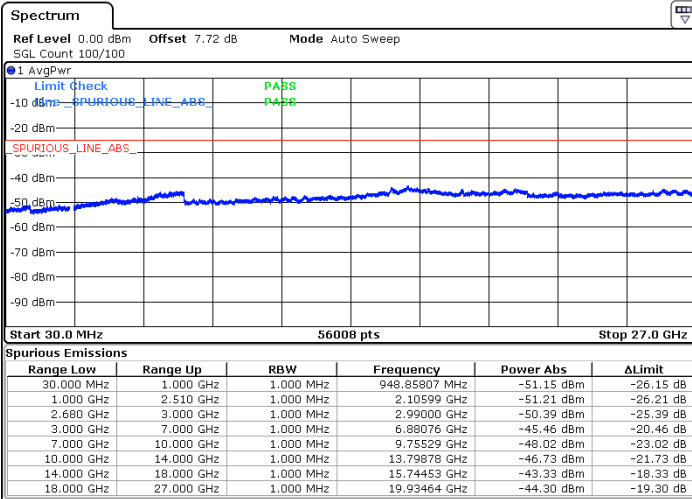
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

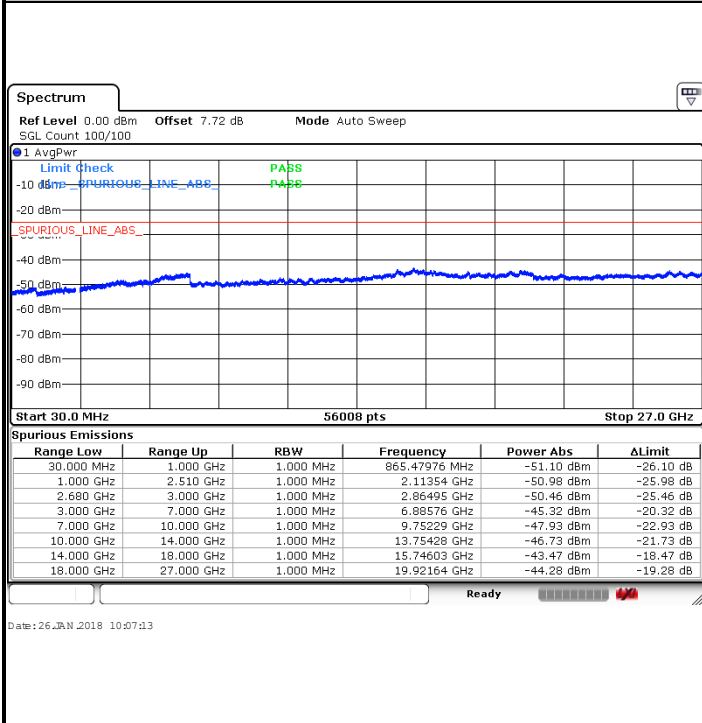
Middle Channel / 16QAM



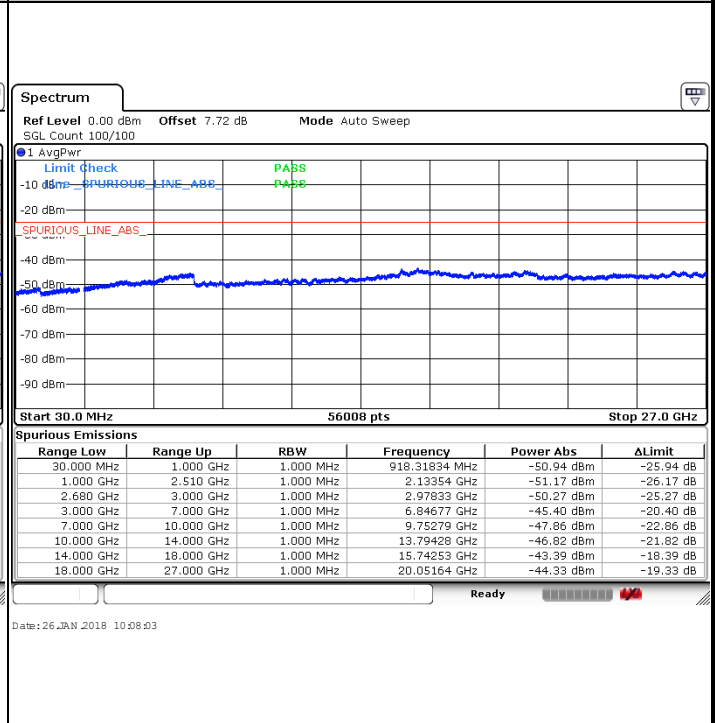


LTE Band 41 / 5MHz

Highest Channel / QPSK

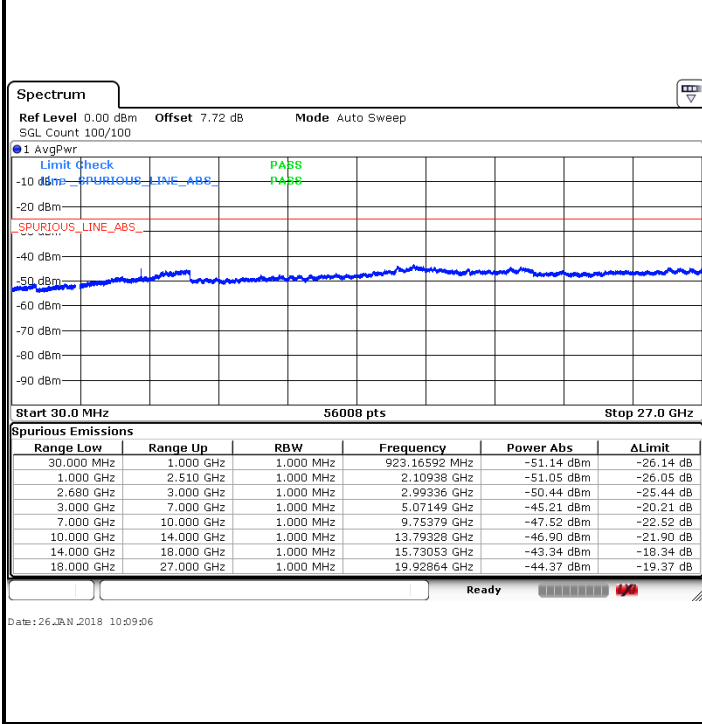


Highest Channel / 16QAM

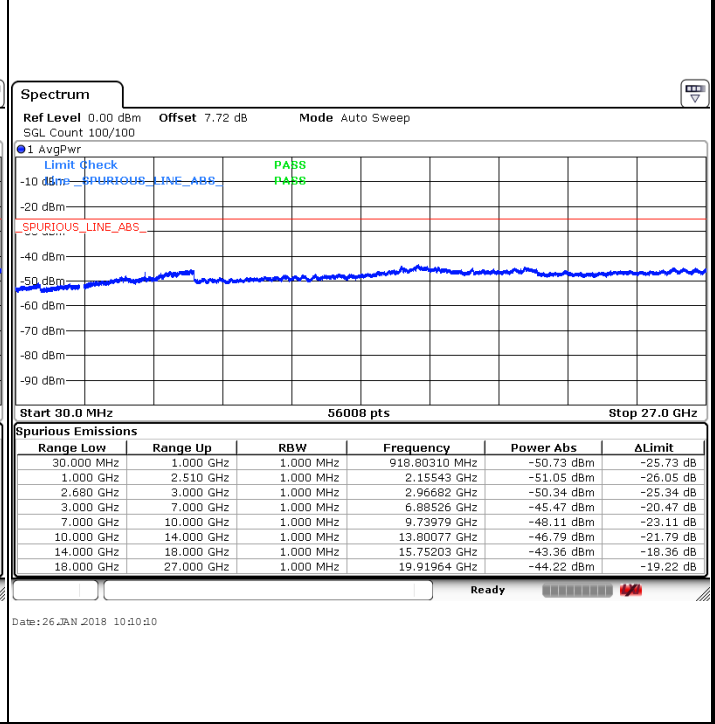


LTE Band 41 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

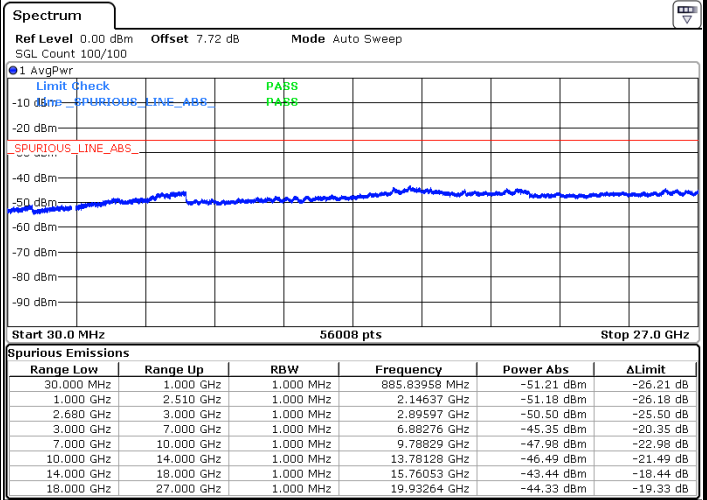
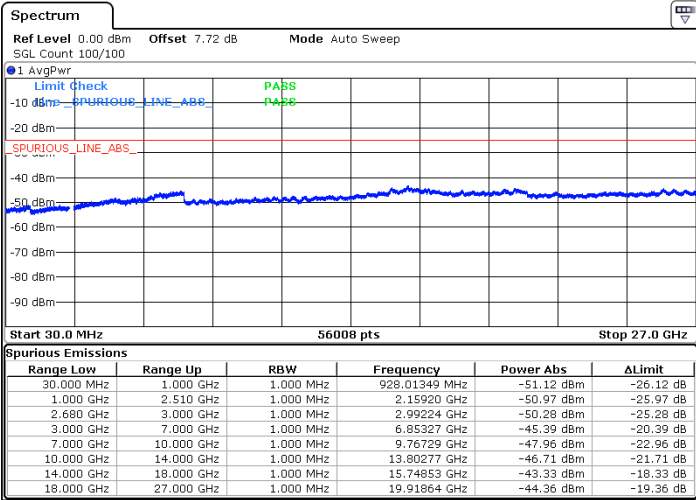




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

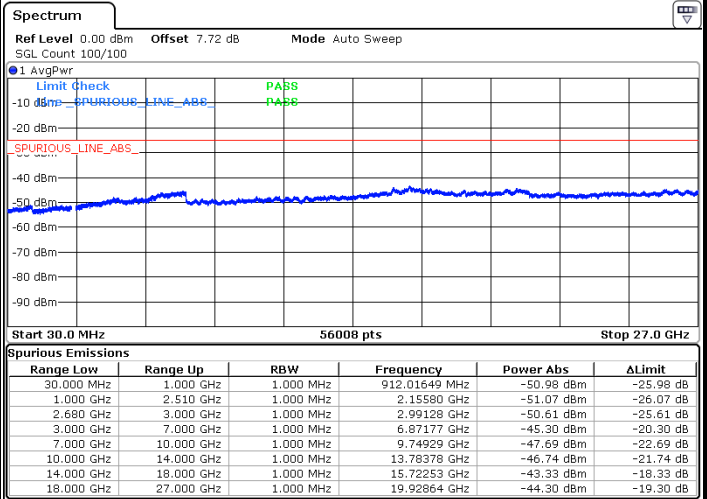
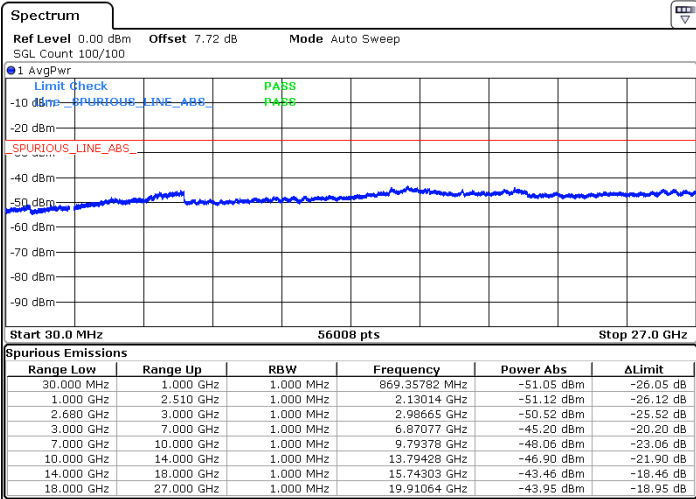


Date: 26.JAN.2018 10:11:56

Date: 26.JAN.2018 10:11:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26.JAN.2018 10:14:26

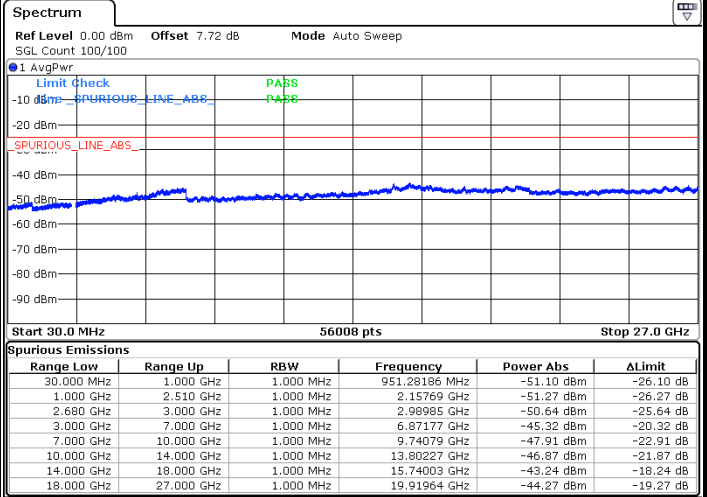
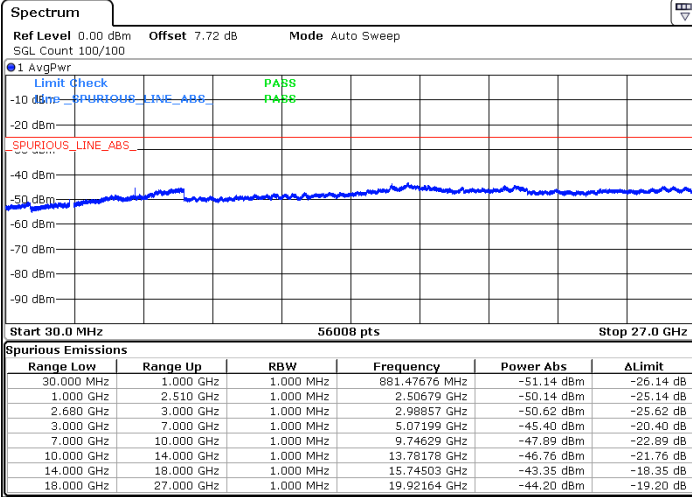
Date: 26.JAN.2018 10:13:37



LTE Band 41 / 15MHz

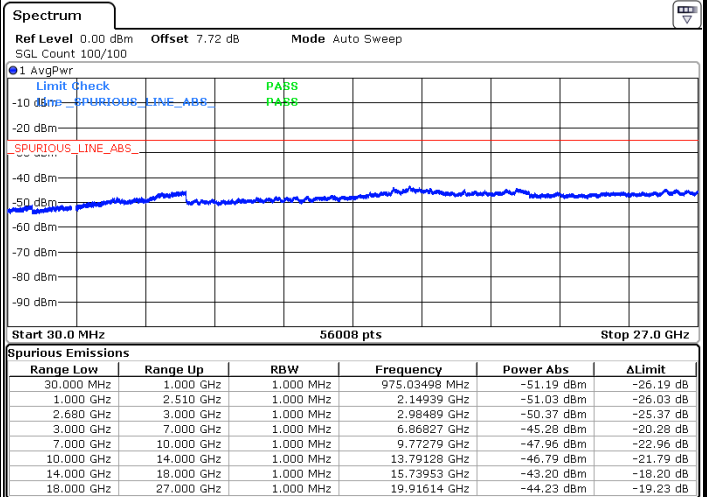
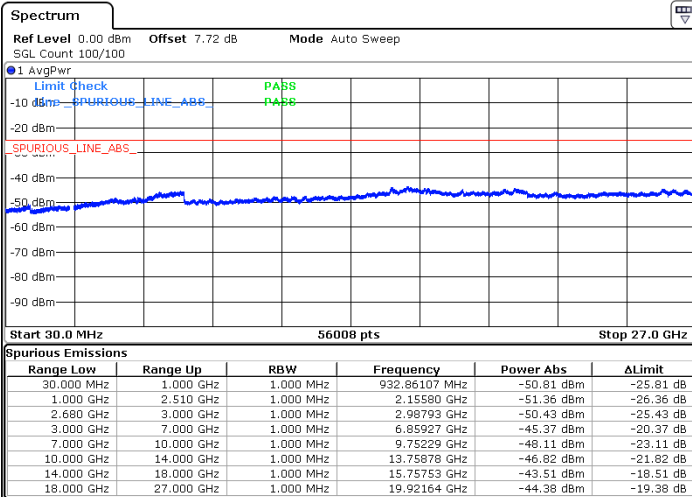
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

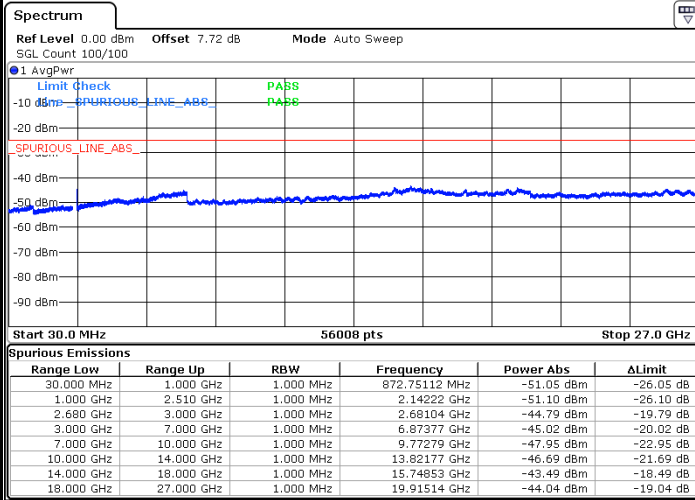
Middle Channel / 16QAM





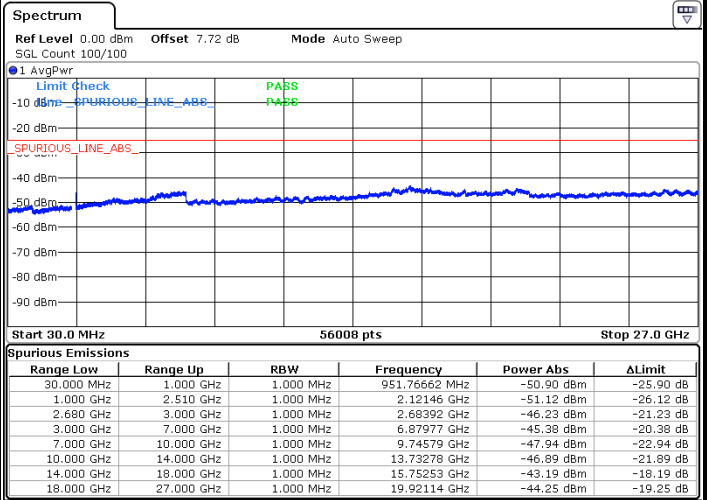
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 26 JAN 2018 10:21:45

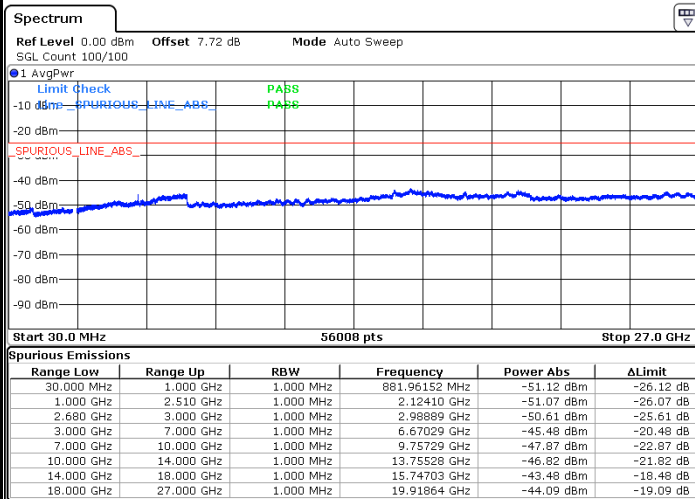
Highest Channel / 16QAM



Date: 26 JAN 2018 10:20:56

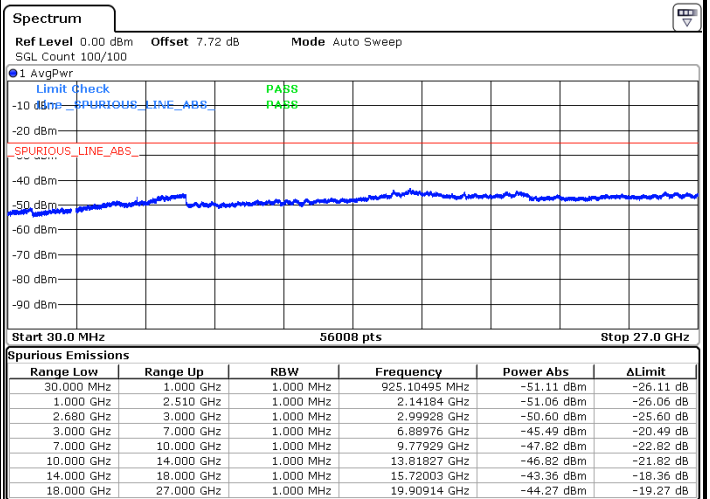
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 26 JAN 2018 10:22:59

Lowest Channel / 16QAM



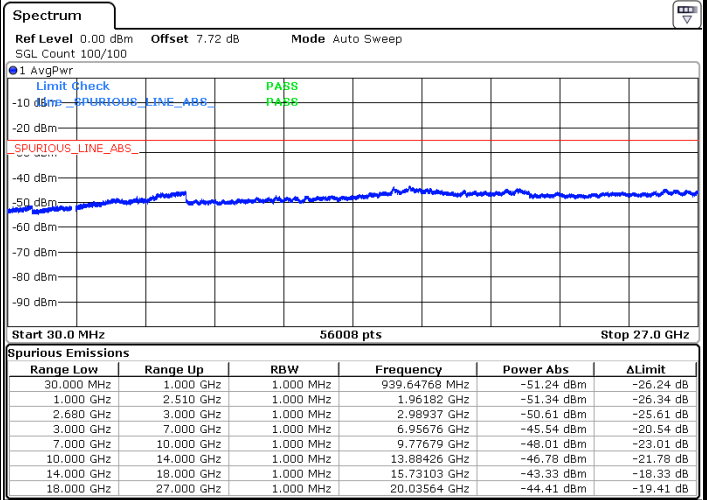
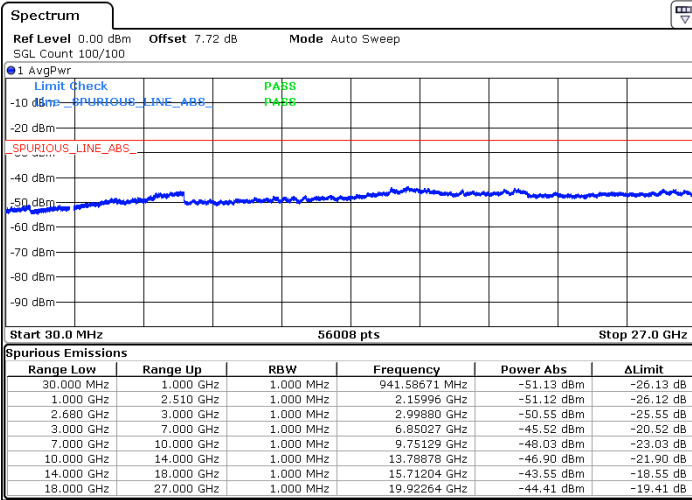
Date: 26 JAN 2018 10:23:52



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

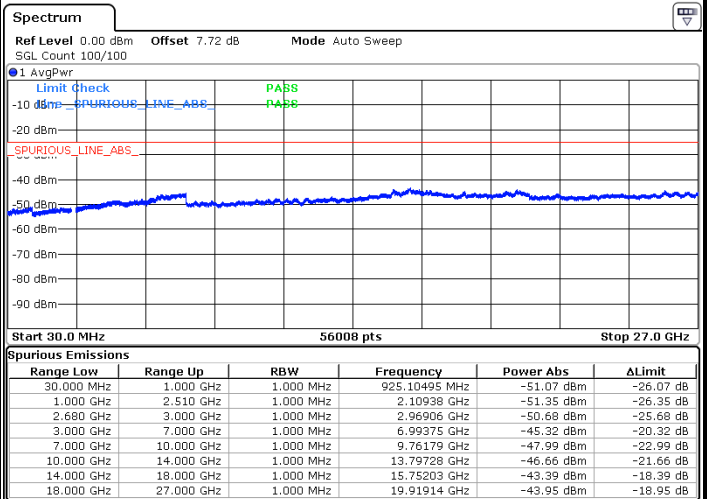
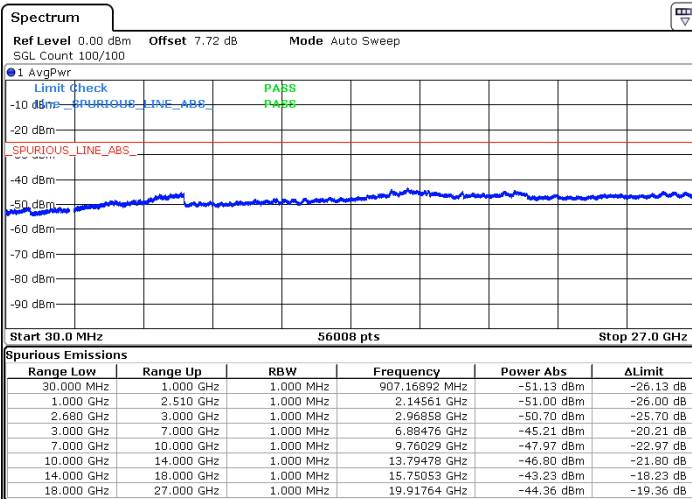


Date: 26.JAN.2018 10:25:49

Date: 26.JAN.2018 10:24:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26.JAN.2018 10:26:39

Date: 26.JAN.2018 10:27:28



Frequency Stability

| Test Conditions | | LTE Band 5 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0006 | PASS |
| 40 | Normal Voltage | 0.0033 | |
| 30 | Normal Voltage | 0.0044 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0033 | |
| 0 | Normal Voltage | 0.0045 | |
| -10 | Normal Voltage | 0.0037 | |
| -20 | Normal Voltage | 0.0004 | |
| -30 | Normal Voltage | 0.0026 | |
| 20 | Maximum Voltage | 0.0000 | |
| 20 | Normal Voltage | 0.0032 | |
| 20 | Battery End Point | 0.0010 | |

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



| Test Conditions | | LTE Band 26 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|--------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0077 | PASS |
| 40 | Normal Voltage | 0.0117 | |
| 30 | Normal Voltage | 0.0088 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0105 | |
| 0 | Normal Voltage | 0.0027 | |
| -10 | Normal Voltage | 0.0044 | |
| -20 | Normal Voltage | 0.0111 | |
| -30 | Normal Voltage | 0.0092 | |
| 20 | Maximum Voltage | 0.0041 | |
| 20 | Normal Voltage | 0.0023 | |
| 20 | Battery End Point | 0.0096 | |

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



| Test Conditions | | LTE Band 38 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0024 | PASS |
| 40 | Normal Voltage | 0.0009 | |
| 30 | Normal Voltage | 0.0027 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0004 | |
| 0 | Normal Voltage | 0.0020 | |
| -10 | Normal Voltage | 0.0018 | |
| -20 | Normal Voltage | 0.0002 | |
| -30 | Normal Voltage | 0.0001 | |
| 20 | Maximum Voltage | 0.0010 | |
| 20 | Normal Voltage | 0.0007 | |
| 20 | Battery End Point | 0.0022 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions | | LTE Band 41 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0001 | PASS |
| 40 | Normal Voltage | 0.0009 | |
| 30 | Normal Voltage | 0.0002 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0006 | |
| 0 | Normal Voltage | 0.0022 | |
| -10 | Normal Voltage | 0.0015 | |
| -20 | Normal Voltage | 0.0007 | |
| -30 | Normal Voltage | 0.0000 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0019 | |
| 20 | Battery End Point | 0.0021 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|--|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1664 | -60.10 | -13 | -47.10 | -60.42 | -62.01 | 1.14 | 5.20 | H |
| | 2496 | -55.06 | -13 | -42.06 | -59.36 | -57.69 | 1.12 | 5.90 | H |
| | 3327 | -56.36 | -13 | -43.36 | -60.48 | -59.57 | 1.34 | 6.70 | H |
| | 1664 | -62.40 | -13 | -49.40 | -61.5 | -64.31 | 1.14 | 5.20 | V |
| | 2496 | -55.77 | -13 | -42.77 | -58.84 | -58.40 | 1.12 | 5.90 | V |
| | 3327 | -57.57 | -13 | -44.57 | -62.71 | -60.78 | 1.34 | 6.70 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1664 | -61.91 | -13 | -48.91 | -62.23 | -63.82 | 1.14 | 5.20 | H |
| | 2496 | -50.15 | -13 | -37.15 | -54.71 | -52.78 | 1.12 | 5.90 | H |
| | 3327 | -61.66 | -13 | -48.66 | -65.78 | -64.87 | 1.34 | 6.70 | H |
| | 1664 | -54.80 | -13 | -41.80 | -53.99 | -56.71 | 1.14 | 5.20 | V |
| | 2496 | -33.32 | -13 | -20.32 | -41.6 | -35.95 | 1.12 | 5.90 | V |
| | 3327 | -61.48 | -13 | -48.48 | -66.62 | -64.69 | 1.34 | 6.70 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5172 | -58.93 | -25 | -33.93 | -45.52 | -65.76 | 2.46 | 9.29 | H |
| | 7760 | -50.08 | -25 | -25.08 | -46.56 | -59.27 | 3.01 | 12.20 | H |
| | 10341 | -60.50 | -25 | -35.50 | -57.37 | -69.23 | 3.52 | 12.25 | H |
| | 5172 | -62.14 | -25 | -37.14 | -46.91 | -68.97 | 2.46 | 9.29 | V |
| | 7760 | -56.88 | -25 | -31.88 | -44.8 | -66.07 | 3.01 | 12.20 | V |
| | 10341 | -62.03 | -25 | -37.03 | -58.38 | -70.76 | 3.52 | 12.25 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5172 | -59.77 | -25 | -34.77 | -46.36 | -66.60 | 2.46 | 9.29 | H |
| | 7760 | -50.02 | -25 | -25.02 | -46.50 | -59.21 | 3.01 | 12.20 | H |
| | 10344 | -61.18 | -25 | -36.18 | -58.05 | -69.91 | 3.52 | 12.25 | H |
| | 5172 | -63.22 | -25 | -38.22 | -47.99 | -70.05 | 2.46 | 9.29 | V |
| | 7760 | -59.07 | -25 | -34.07 | -46.99 | -68.26 | 3.01 | 12.20 | V |
| | 10344 | -62.28 | -25 | -37.28 | -58.63 | -71.01 | 3.52 | 12.25 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Appendix D. Reference Report

Please refer to Sporton report number FG7D0507B which is issued separately.