

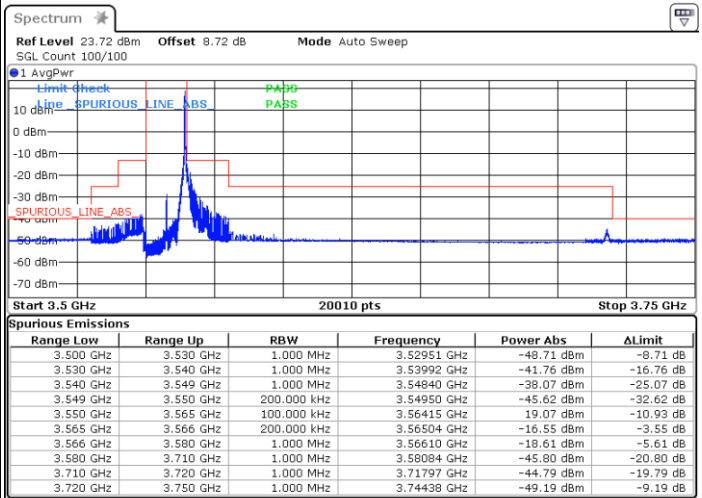
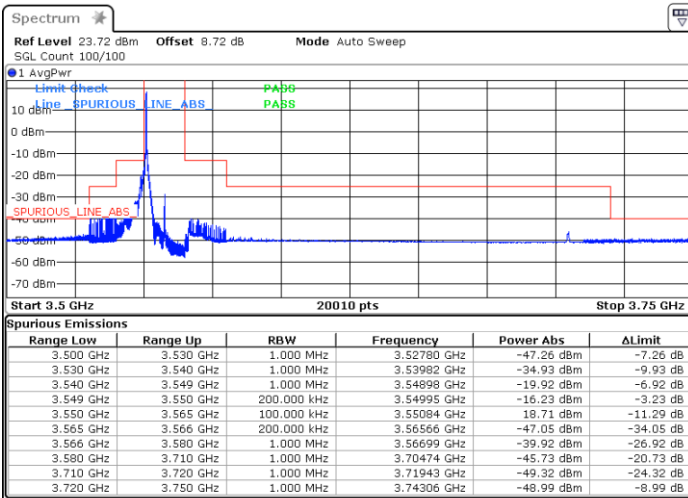


LTE Band 48 / 15MHz

QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

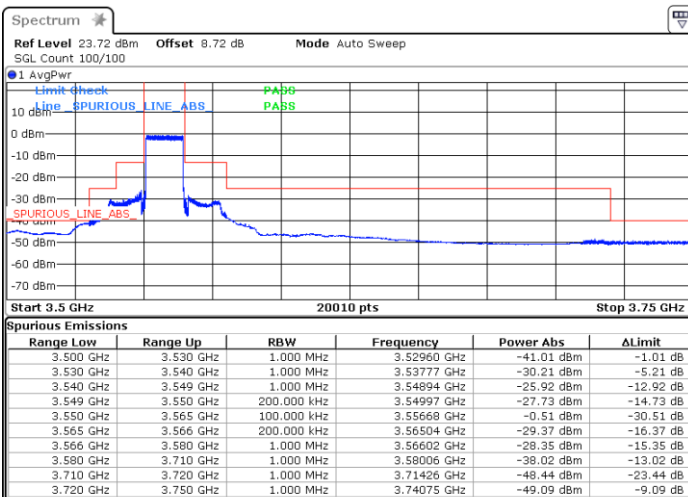


Date: 3 FEB 2021 18:56:54

Date: 3 FEB 2021 18:58:48

Lowest Channel / Full RB

N/A



Date: 3 FEB 2021 18:48:50

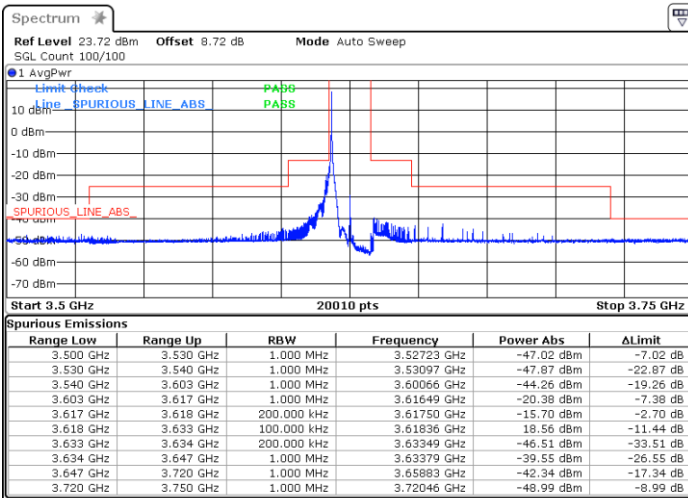


LTE Band 48 / 15MHz

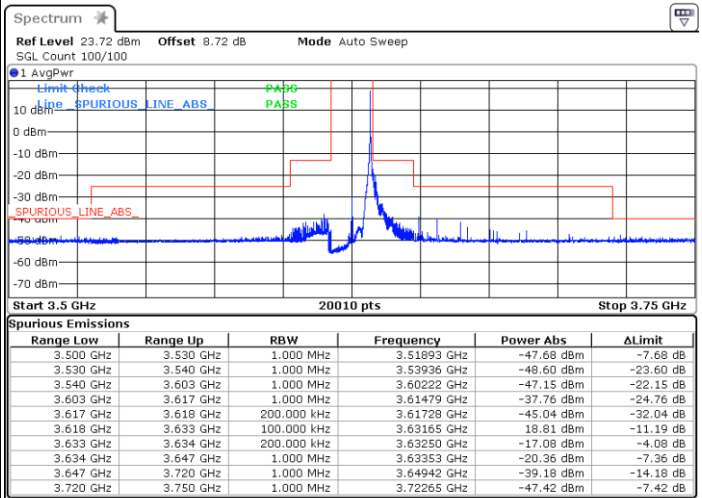
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



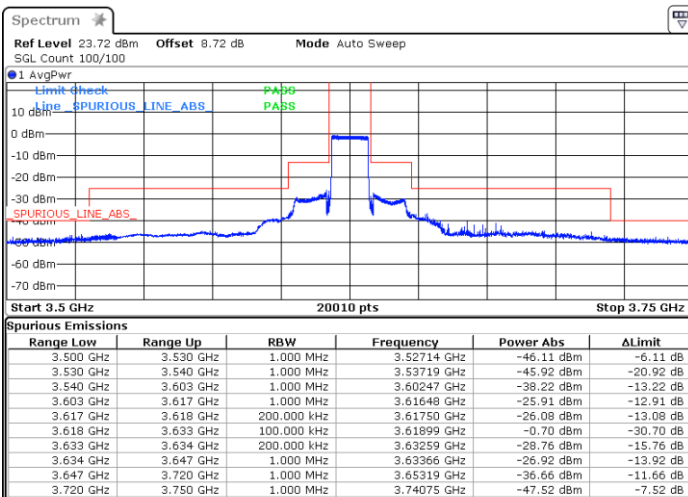
Date: 3 FEB 2021 19:10:16



Date: 3 FEB 2021 19:04:13

Middle Channel / Full RB

N/A



Date: 3 FEB 2021 19:14:01

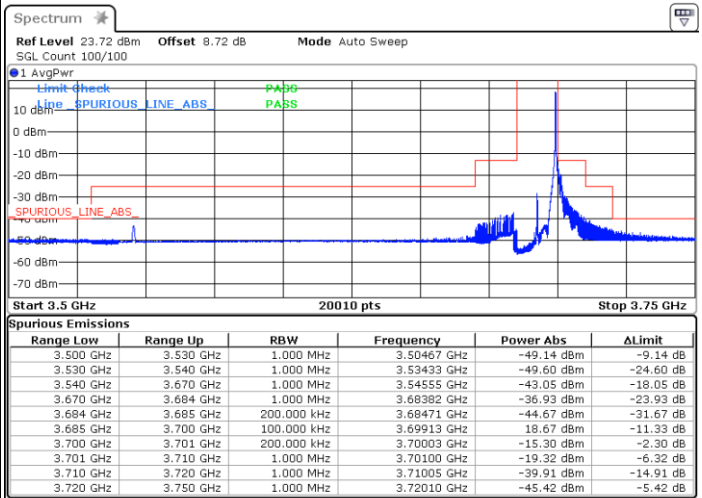
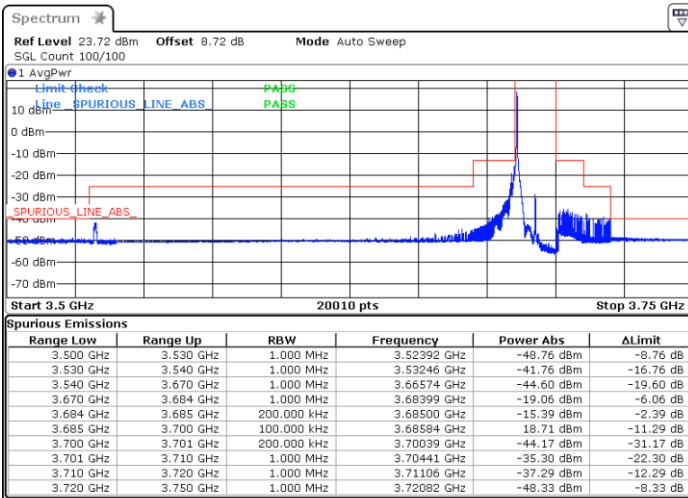


LTE Band 48 / 15MHz

QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

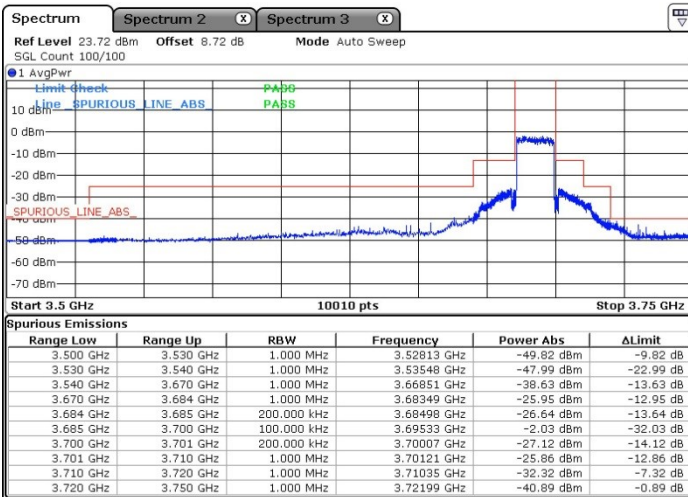


Date: 3 FEB 2021 19:26:50

Date: 3 FEB 2021 19:37:32

Highest Channel / Full RB

N/A



Date: 4 FEB 2021 10:54:53

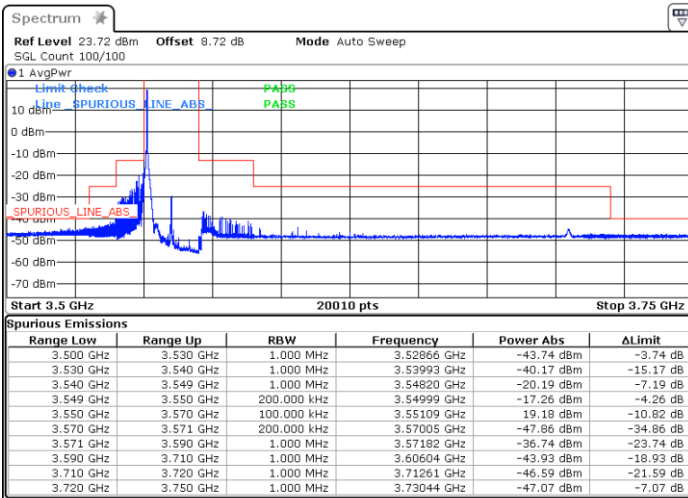


LTE Band 48 / 20MHz

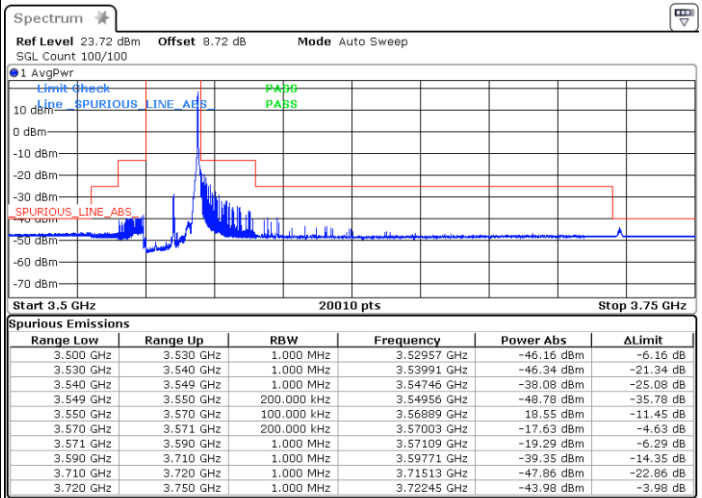
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



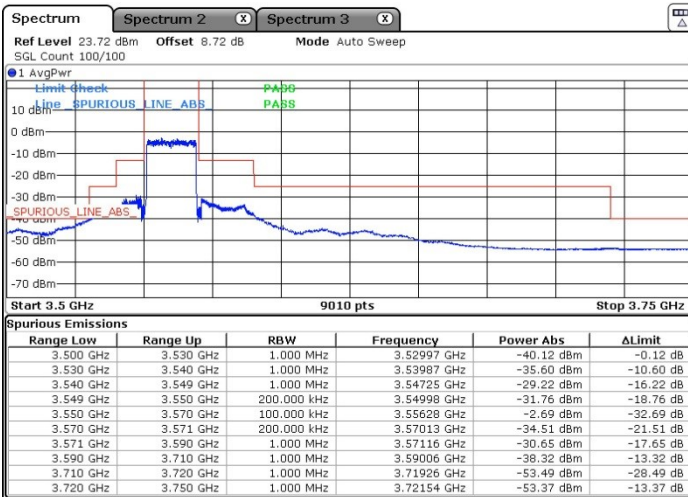
Date: 3.FEB.2021 12:41:38



Date: 3.FEB.2021 13:53:33

Lowest Channel / Full RB

N/A



Date: 4 FEB 2021 10:41:15

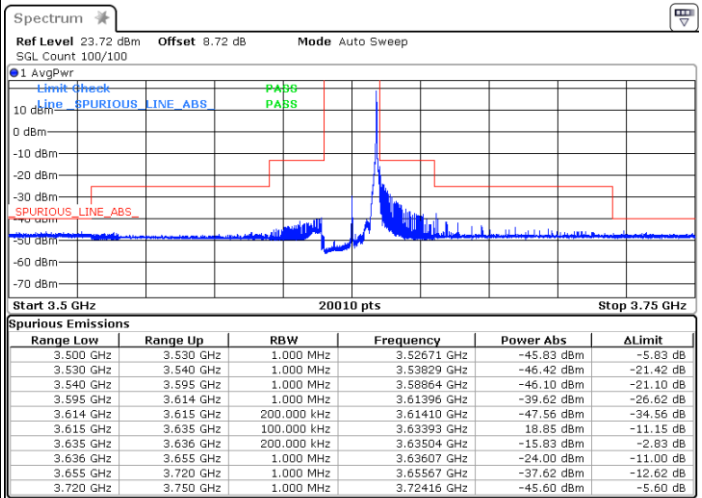
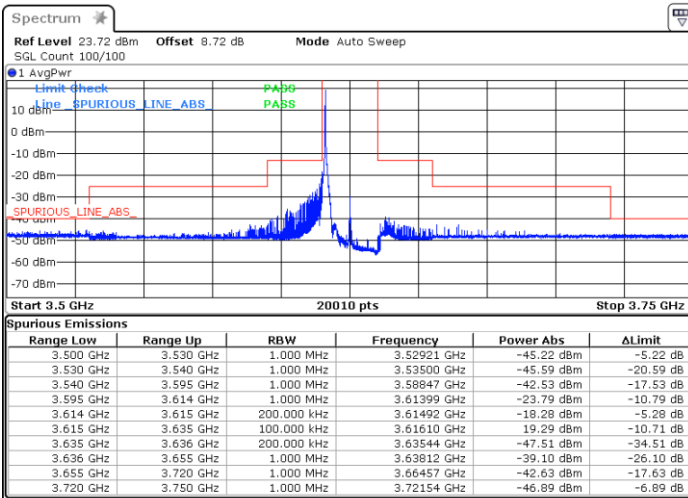


LTE Band 48 / 20MHz

QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

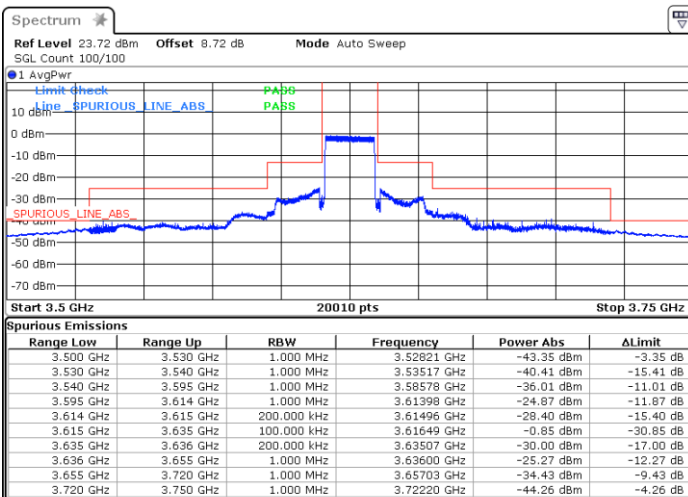


Date: 3.FEB.2021 13:16:11

Date: 3.FEB.2021 13:18:55

Middle Channel / Full RB

N/A



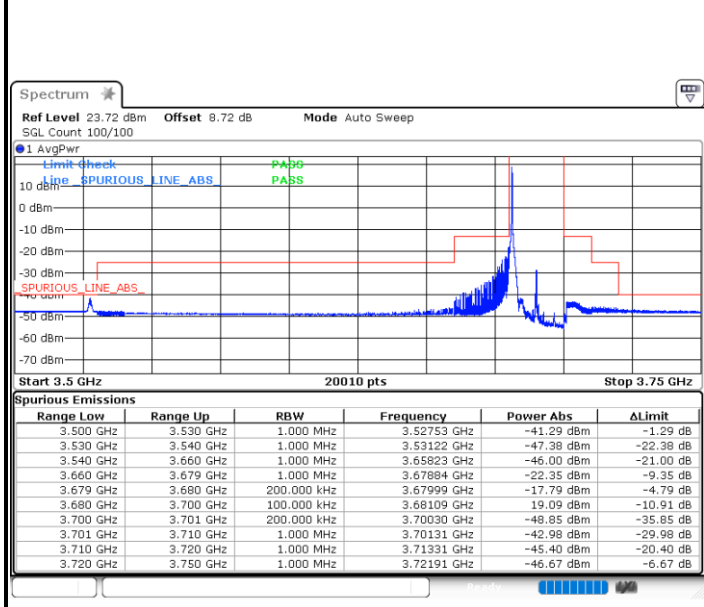
Date: 3.FEB.2021 12:57:00



LTE Band 48 / 20MHz

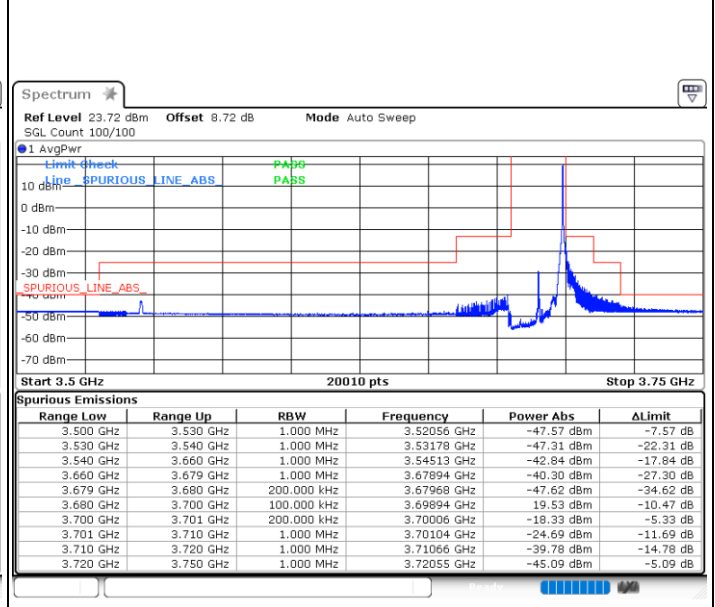
QPSK

Highest Channel / 1RB0



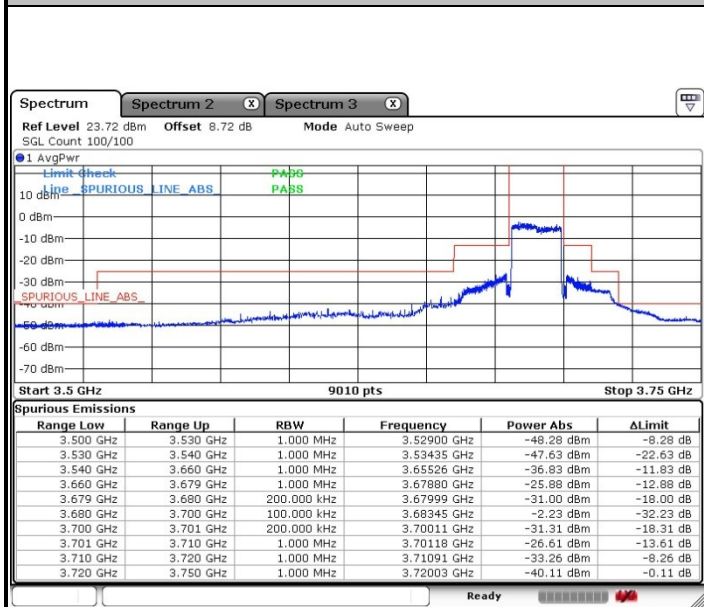
Date: 3.FEB.2021 13:32:44

Highest Channel / 1RBmax



Date: 3.FEB.2021 13:27:13

Highest Channel / Full RB



Date: 4 FEB 2021 10:49:48

N/A

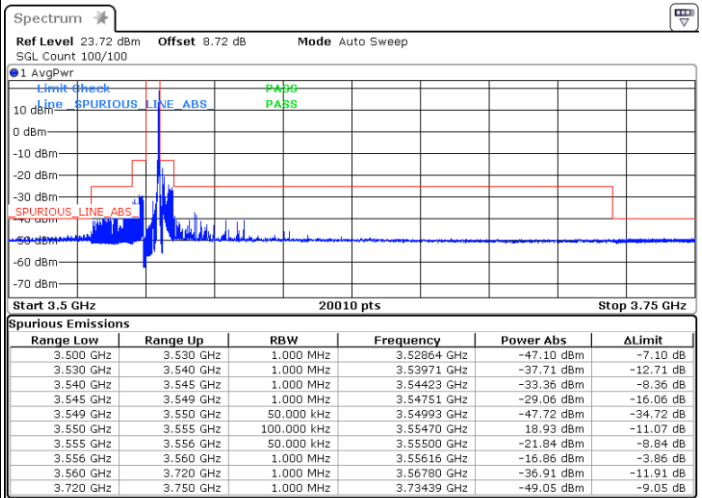
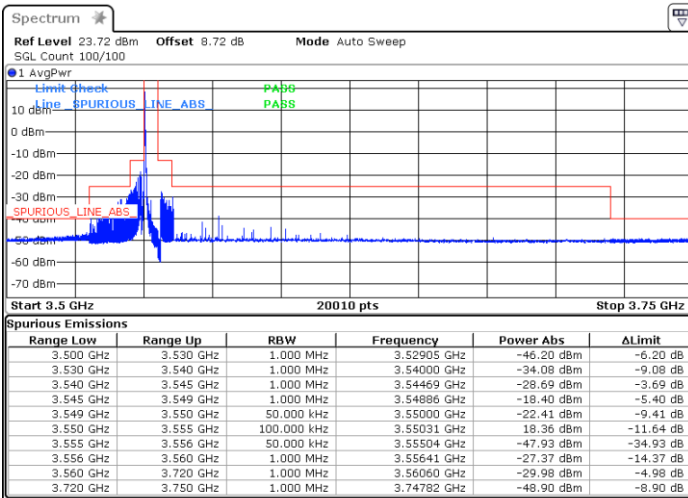


LTE Band 48 / 5MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

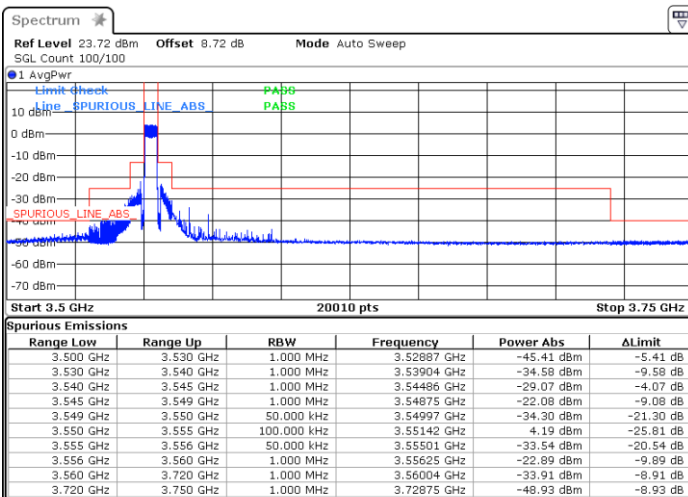


Date: 3 FEB 2021 16:40:34

Date: 3 FEB 2021 16:35:17

Lowest Channel / Full RB

N/A



Date: 3 FEB 2021 16:48:25

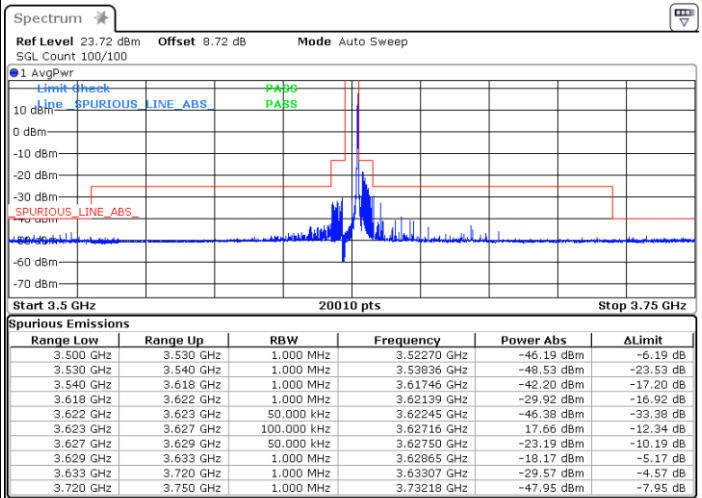
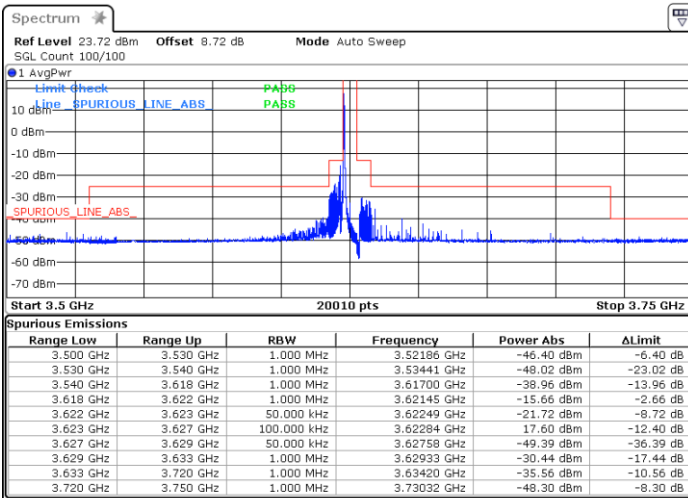


LTE Band 48 / 5MHz

16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

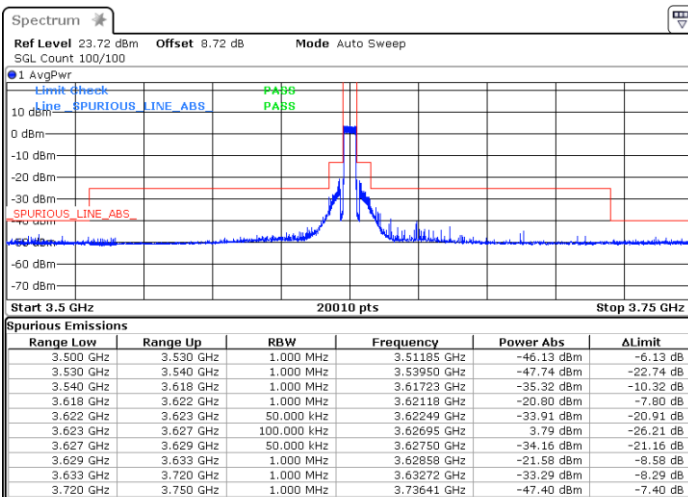


Date: 3 FEB 2021 16:54:50

Date: 3 FEB 2021 16:58:31

Middle Channel / Full RB

N/A



Date: 3 FEB 2021 16:52:32

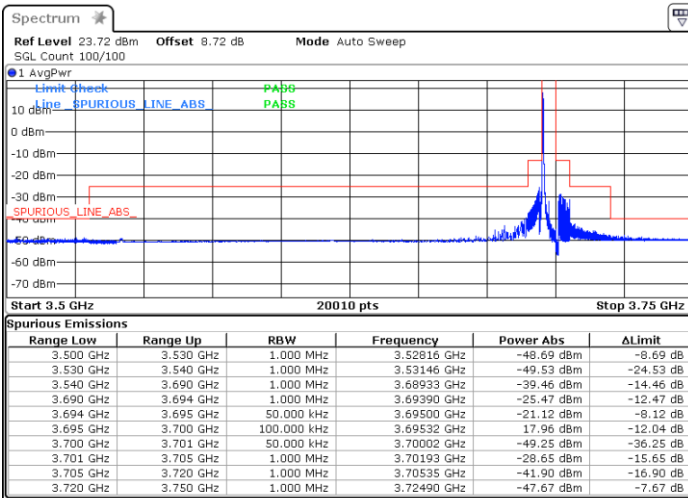


LTE Band 48 / 5MHz

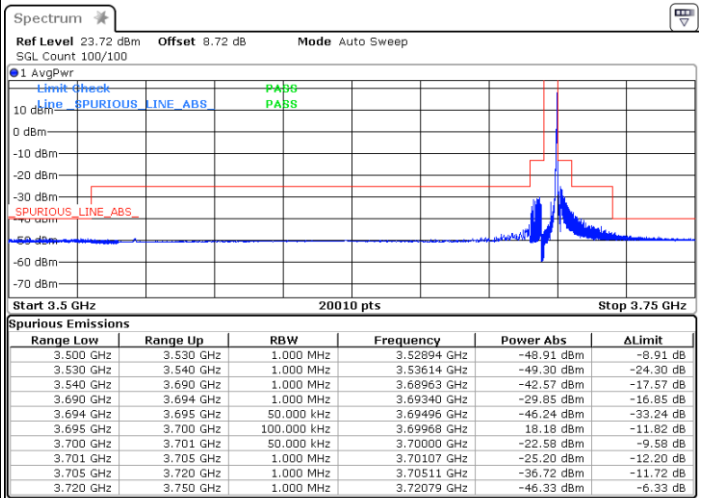
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



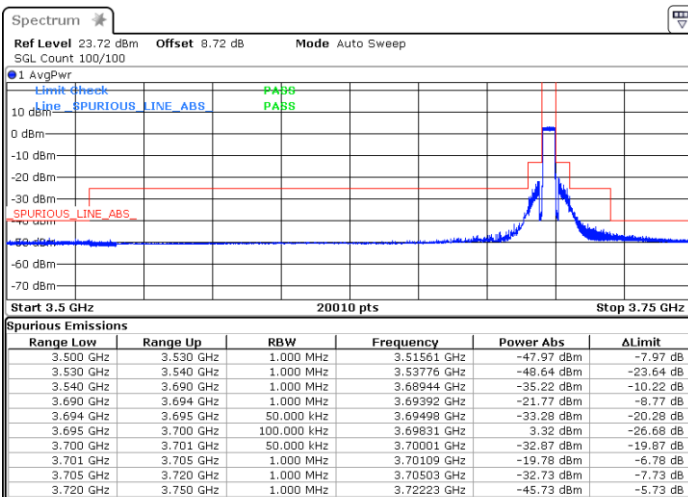
Date: 3 FEB 2021 17:04:50



Date: 3 FEB 2021 17:02:56

Highest Channel / Full RB

N/A



Date: 3 FEB 2021 17:10:17

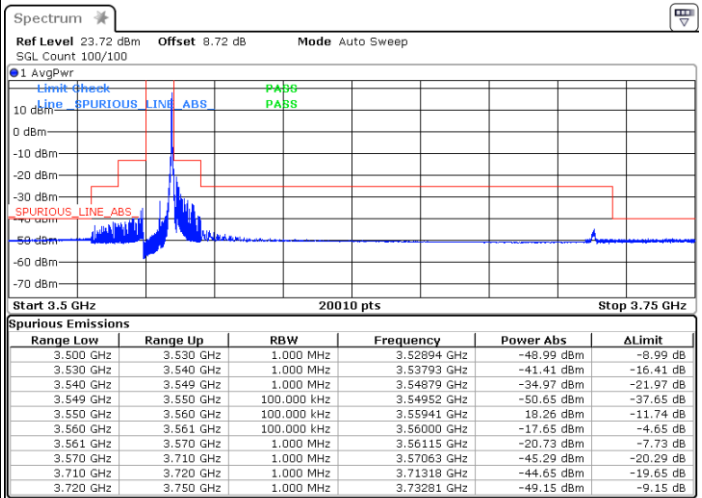
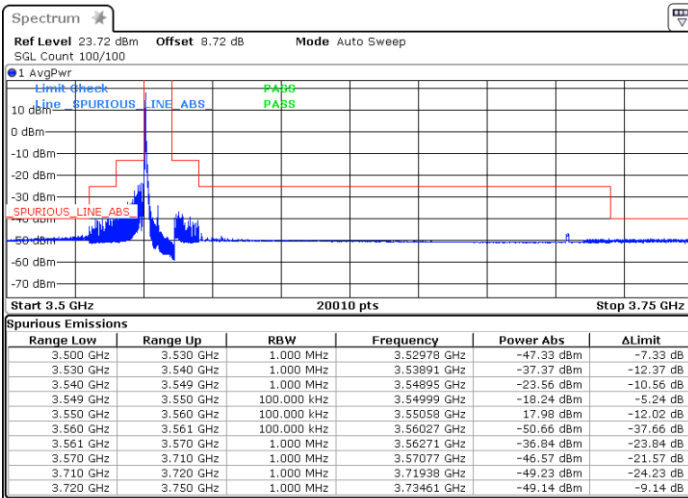


LTE Band 48 / 10MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

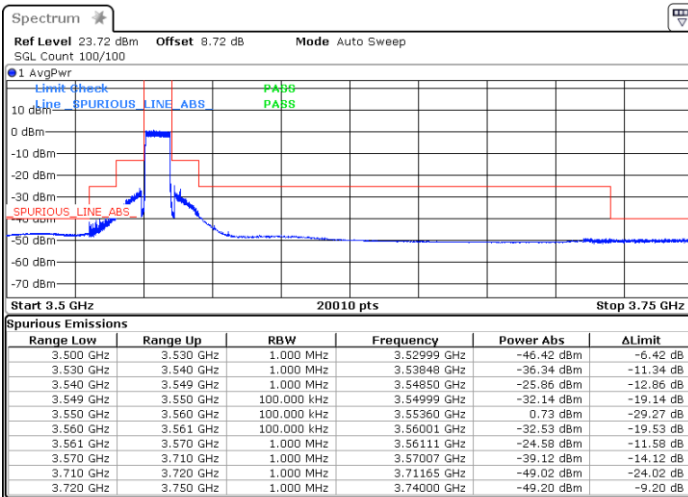


Date: 3 FEB 2021 17:19:57

Date: 3 FEB 2021 17:23:27

Lowest Channel / Full RB

N/A



Date: 3 FEB 2021 17:17:14

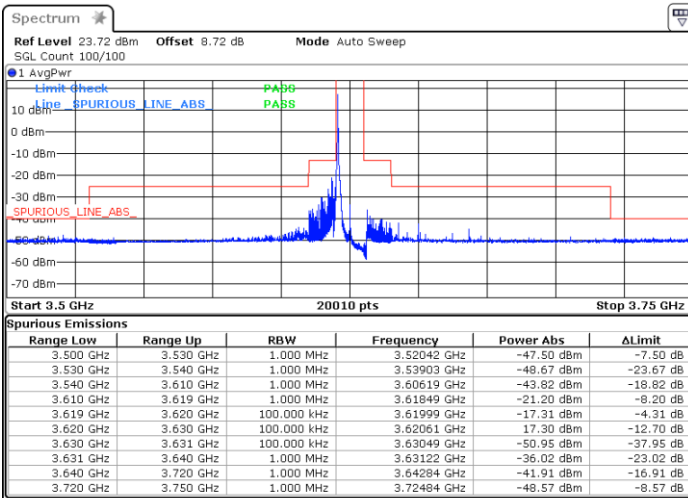


LTE Band 48 / 10MHz

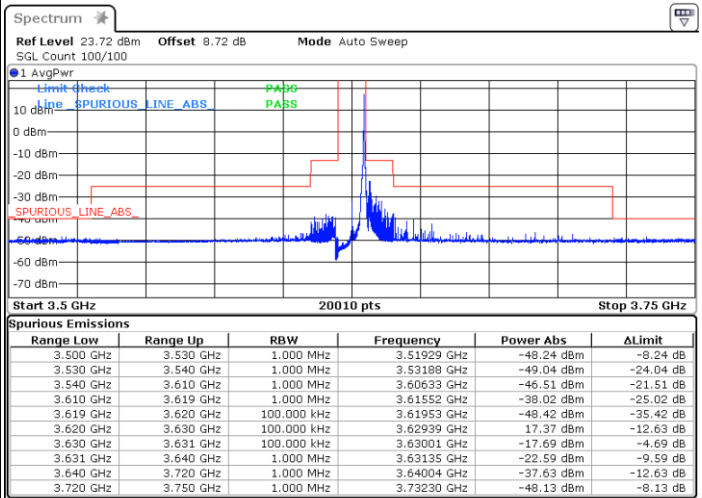
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



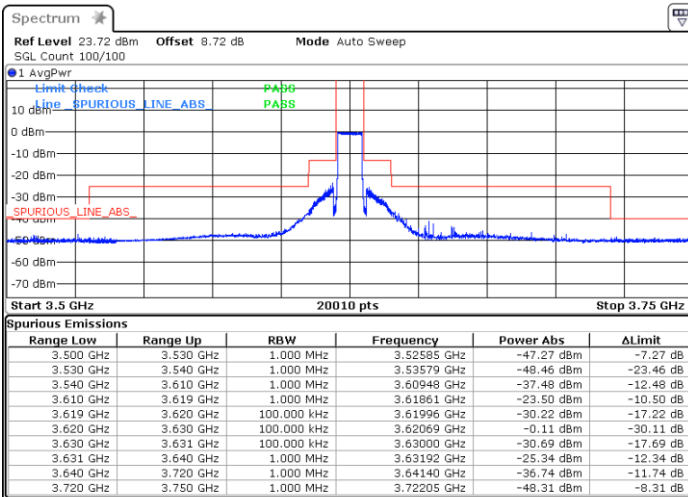
Date: 3 FEB 2021 17:28:10



Date: 3 FEB 2021 17:26:00

Middle Channel / Full RB

N/A



Date: 3 FEB 2021 17:30:58

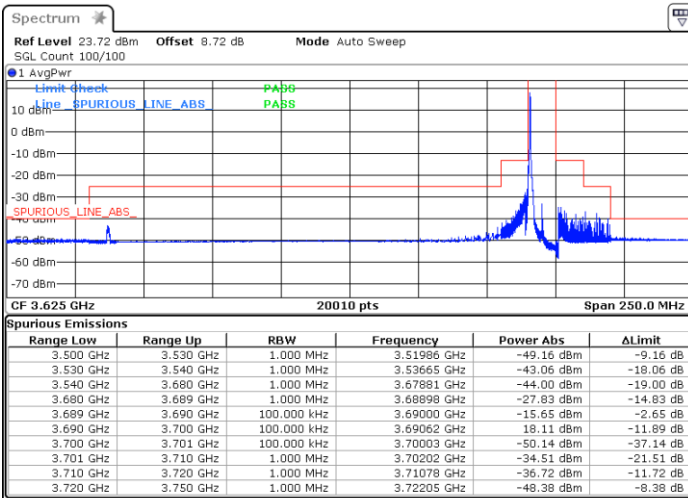


LTE Band 48 / 10MHz

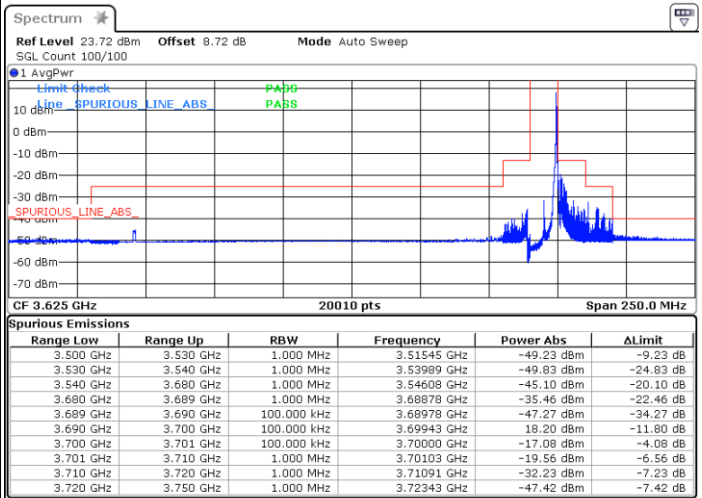
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



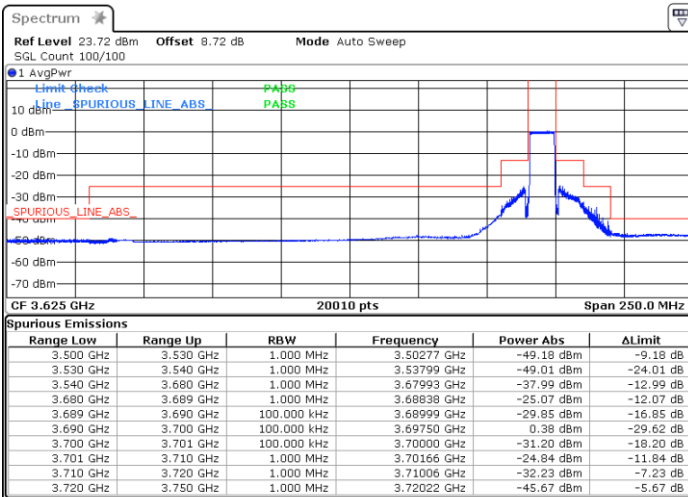
Date: 3 FEB 2021 18:09:59



Date: 3 FEB 2021 18:30:16

Highest Channel / Full RB

N/A



Date: 3 FEB 2021 18:08:19

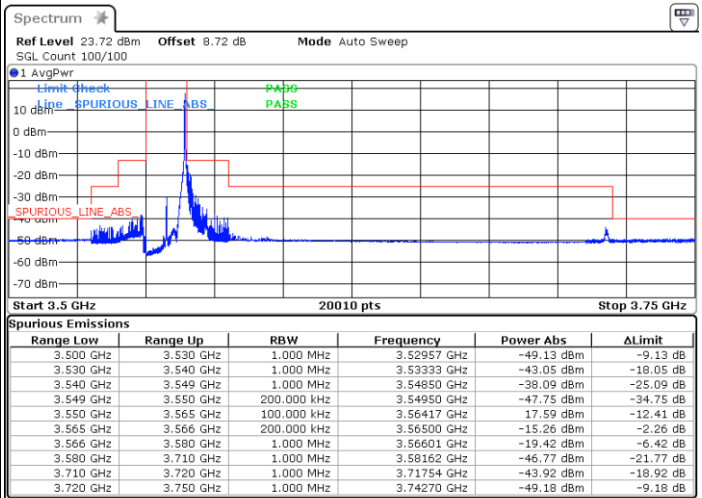
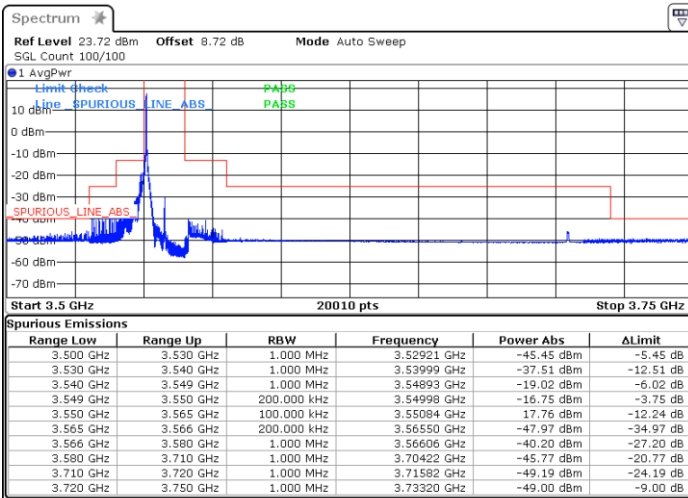


LTE Band 48 / 15MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

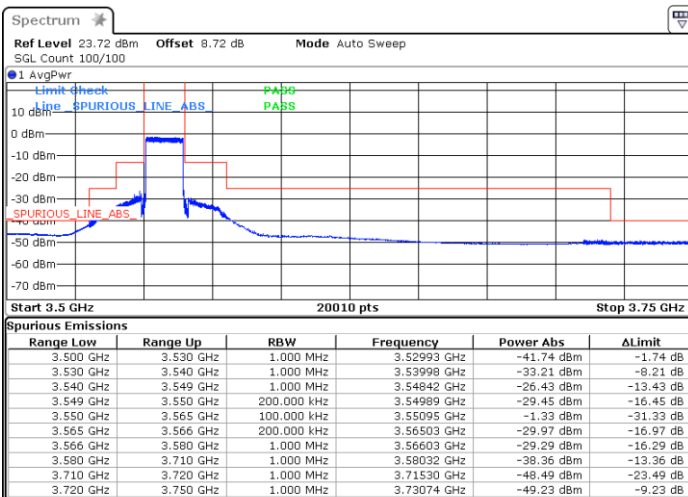


Date: 3 FEB 2021 18:55:00

Date: 3 FEB 2021 19:00:38

Lowest Channel / Full RB

N/A



Date: 3 FEB 2021 18:52:11

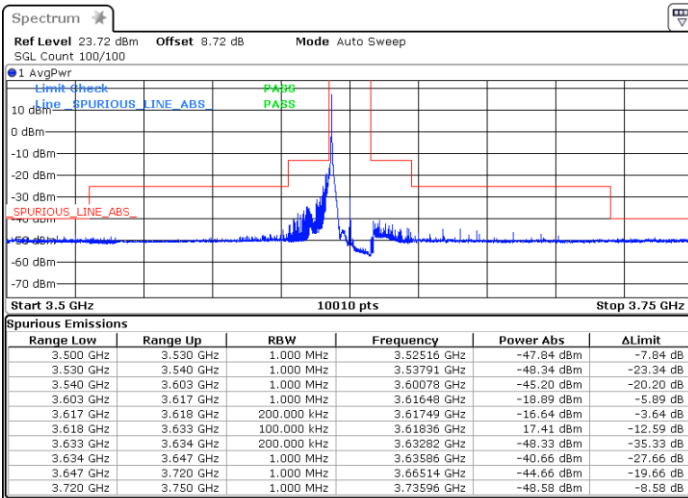


LTE Band 48 / 15MHz

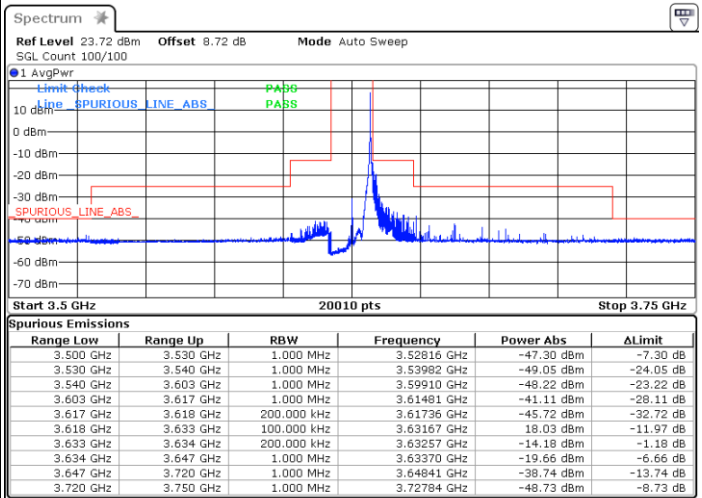
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



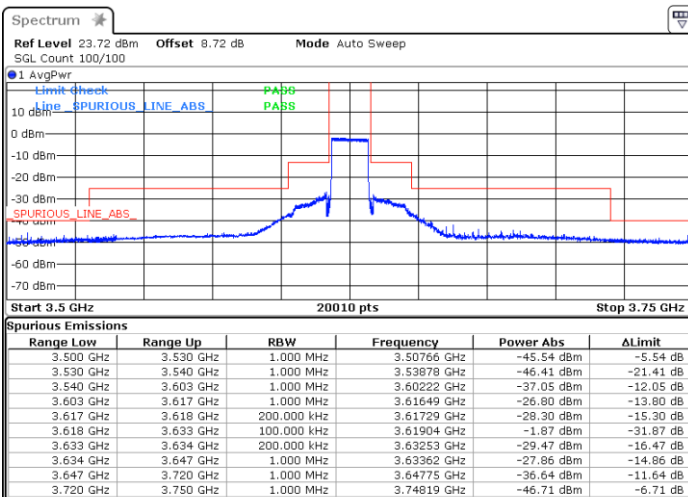
Date: 3 FEB 2021 19:11:37



Date: 3 FEB 2021 19:05:24

Middle Channel / Full RB

N/A



Date: 3 FEB 2021 19:15:03

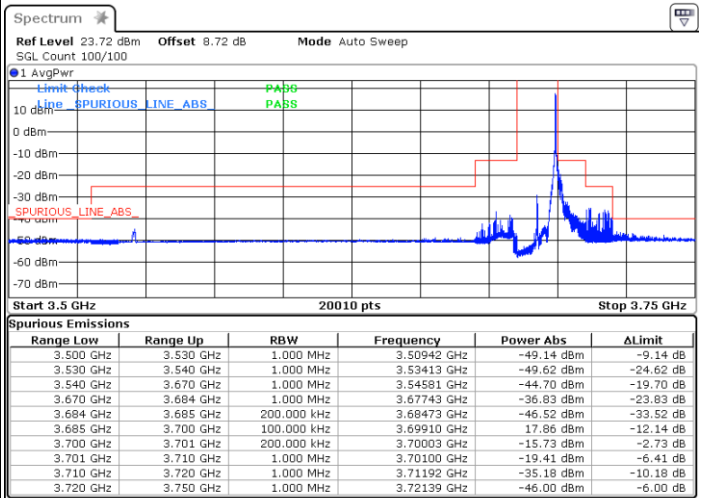
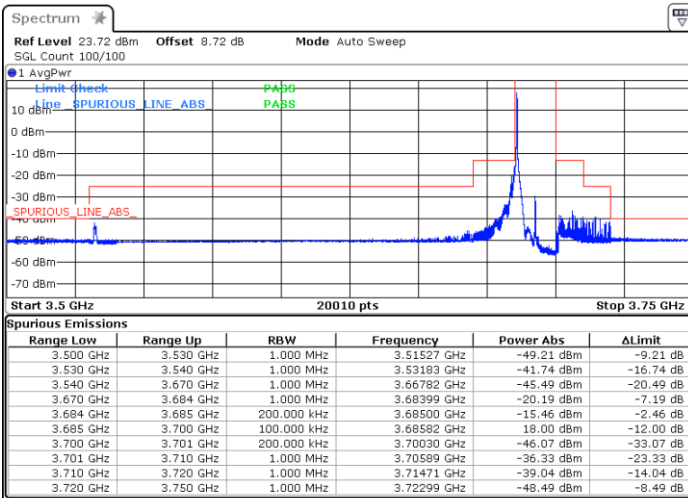


LTE Band 48 / 15MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

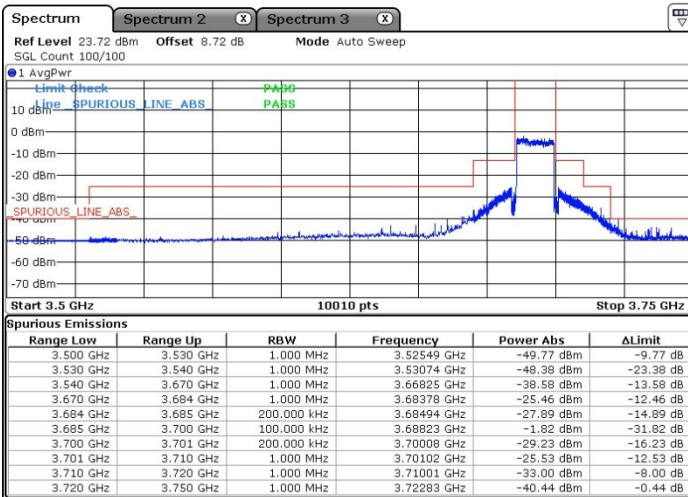


Date: 3 FEB 2021 19:29:07

Date: 3 FEB 2021 19:35:18

Highest Channel / Full RB

N/A



Date: 4 FEB 2021 10:57:02

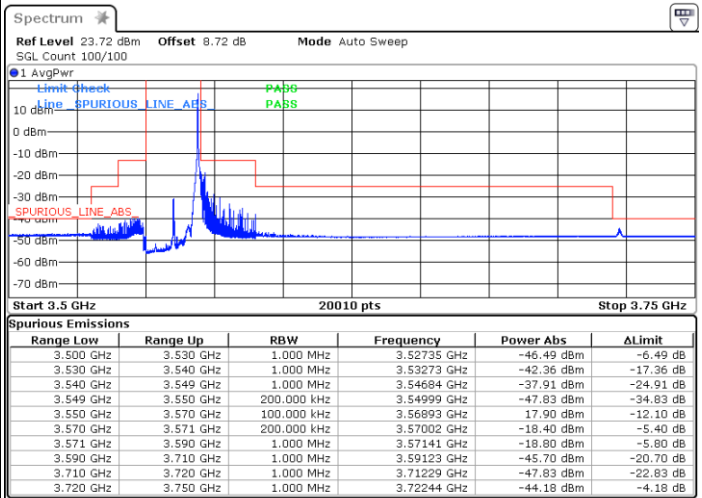
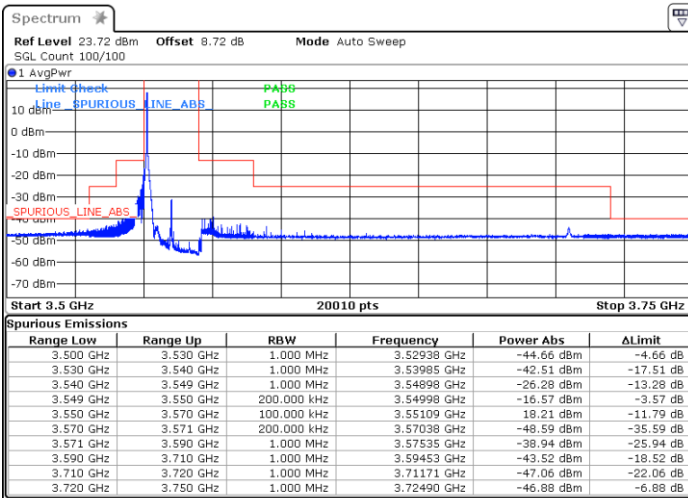


LTE Band 48 / 20MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

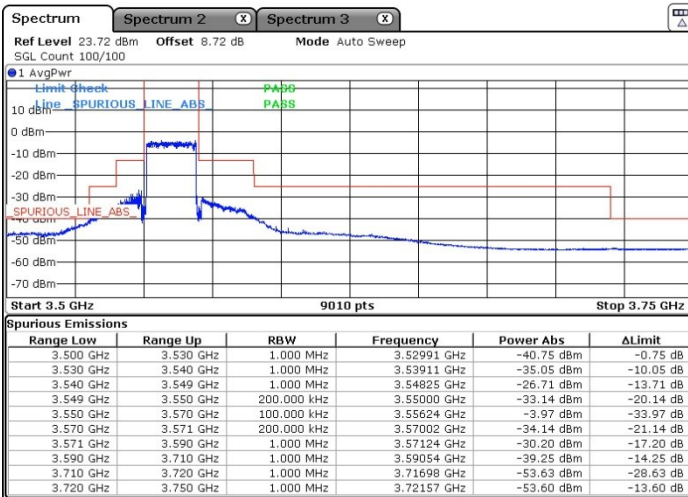


Date: 3.FEB.2021 12:46:01

Date: 3.FEB.2021 12:49:28

Lowest Channel / Full RB

N/A



Date: 4 FEB 2021 10:43:02

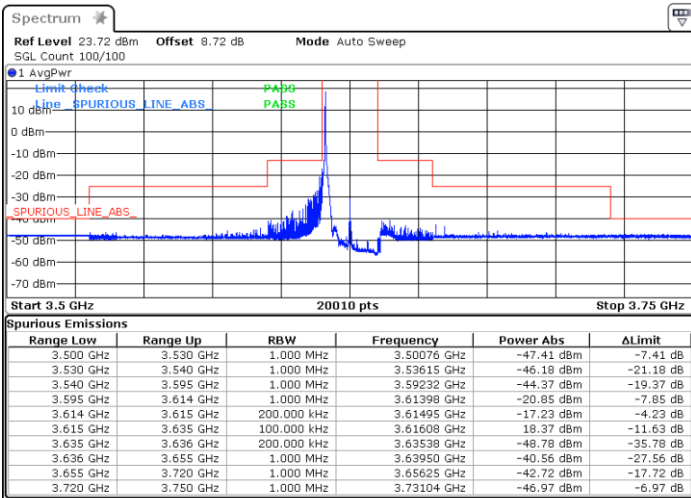


LTE Band 48 / 20MHz

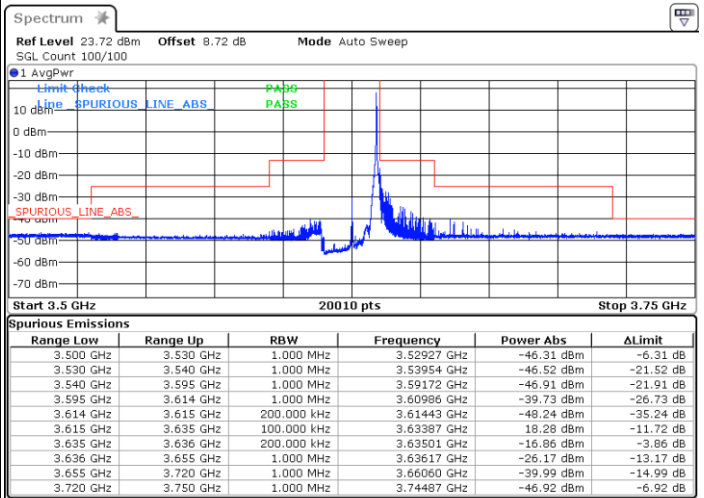
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



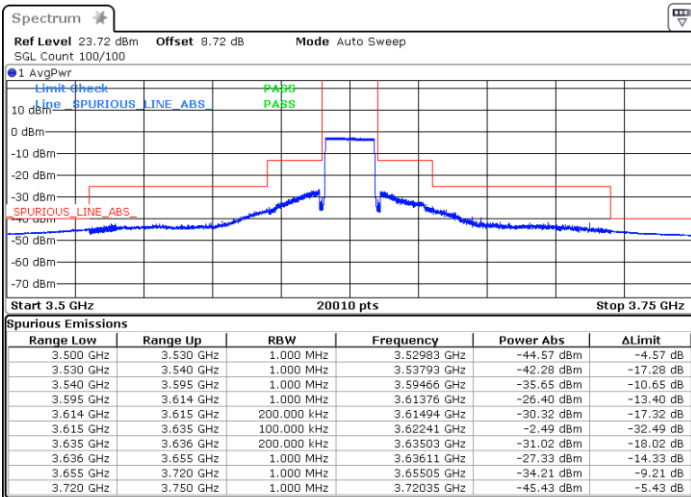
Date: 3.FEB.2021 13:11:59



Date: 3.FEB.2021 13:22:35

Middle Channel / Full RB

N/A



Date: 3.FEB.2021 12:59:57

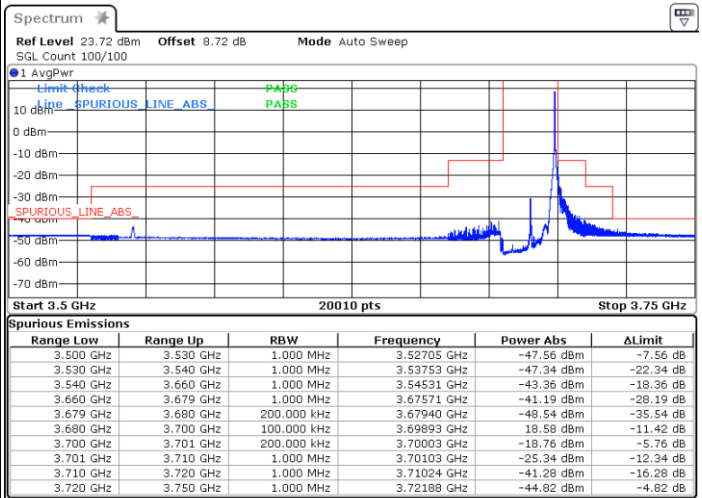
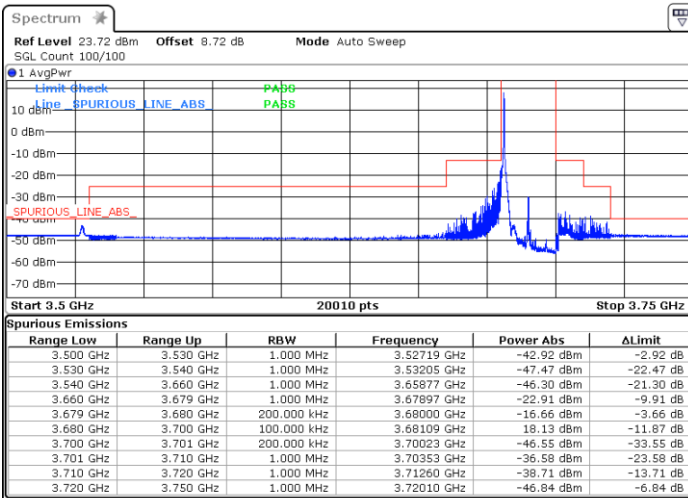


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

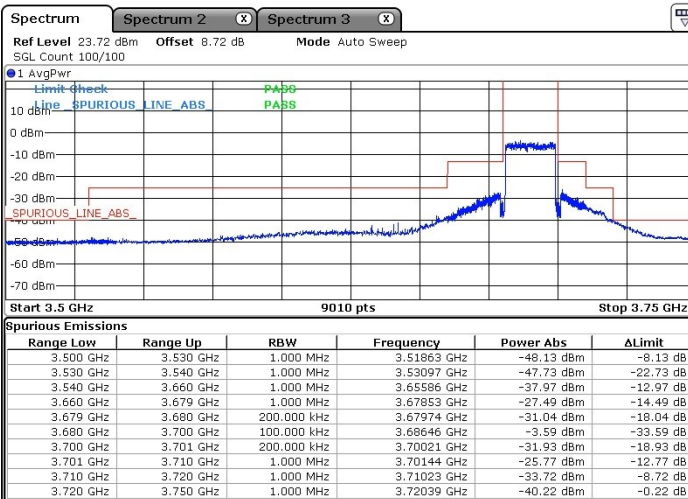


Date: 3.FEB.2021 13:36:44

Date: 3.FEB.2021 13:29:43

Highest Channel / Full RB

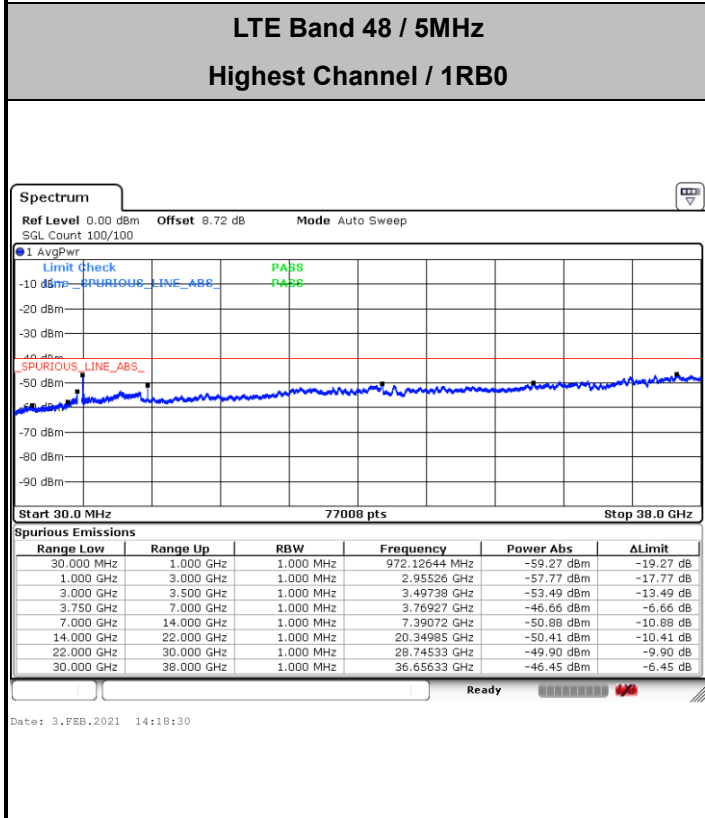
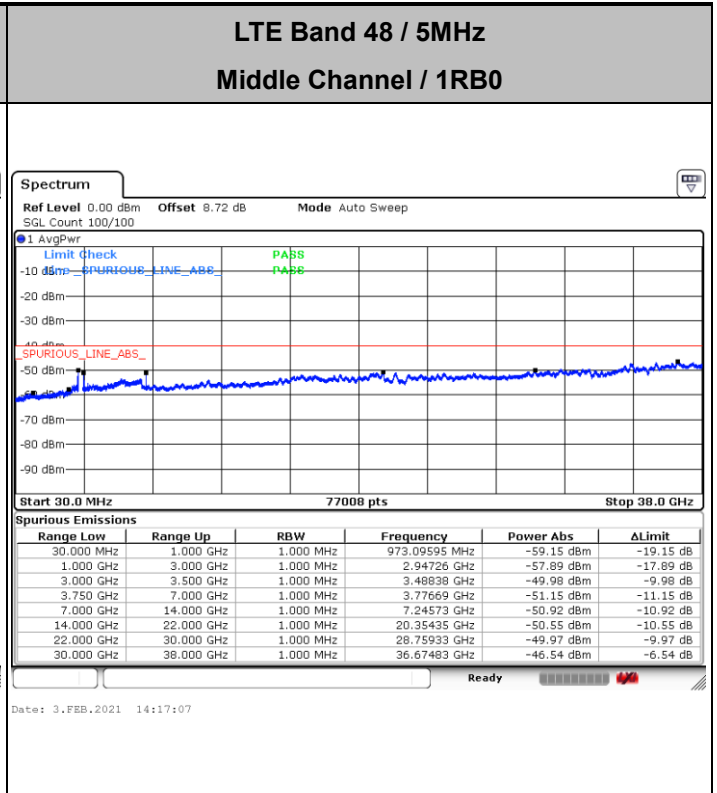
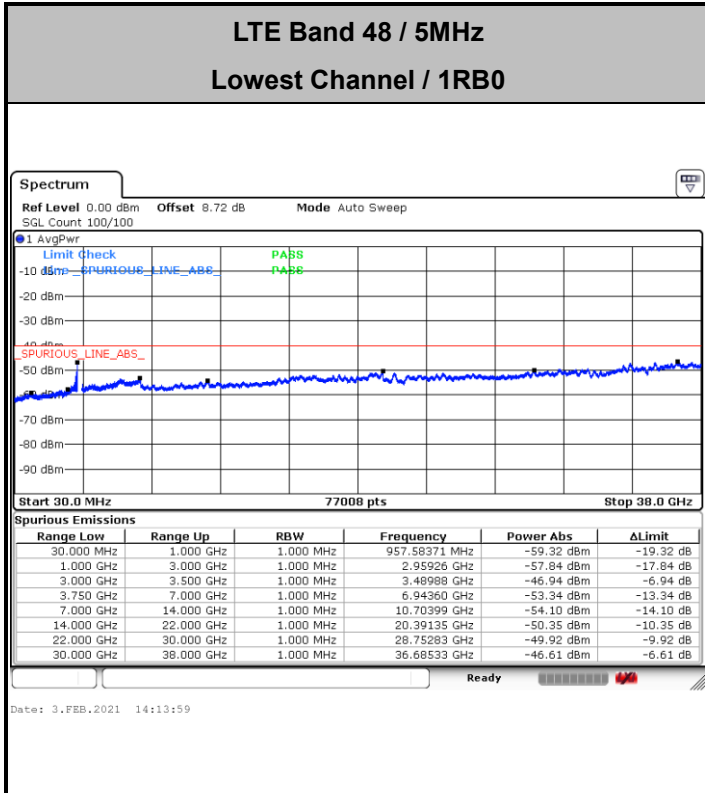
N/A

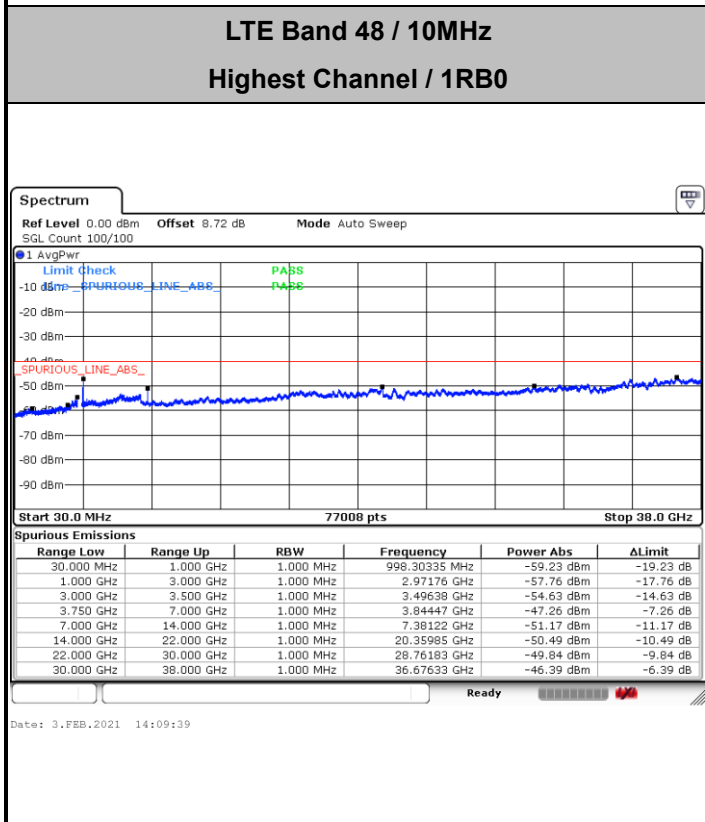
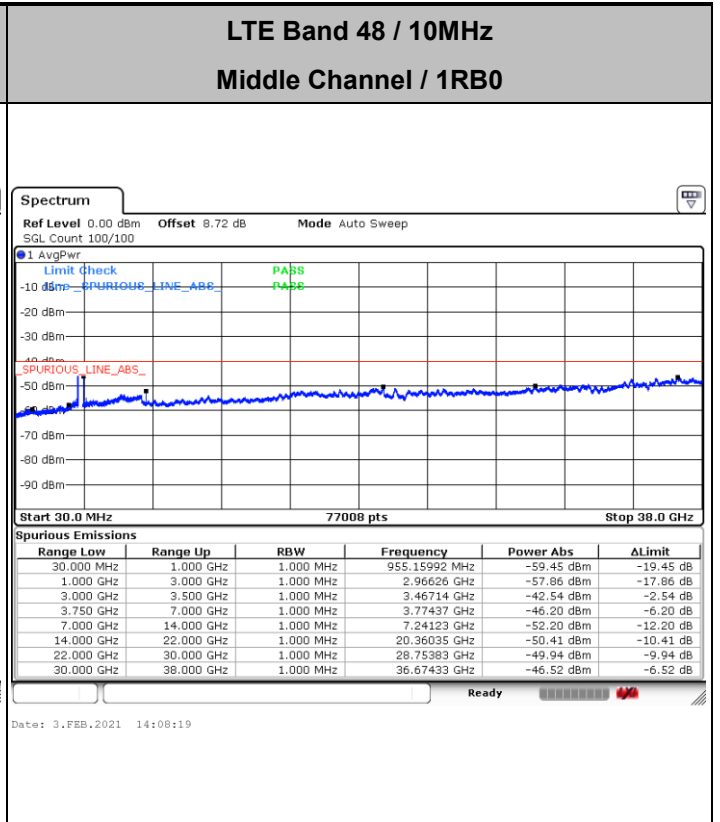
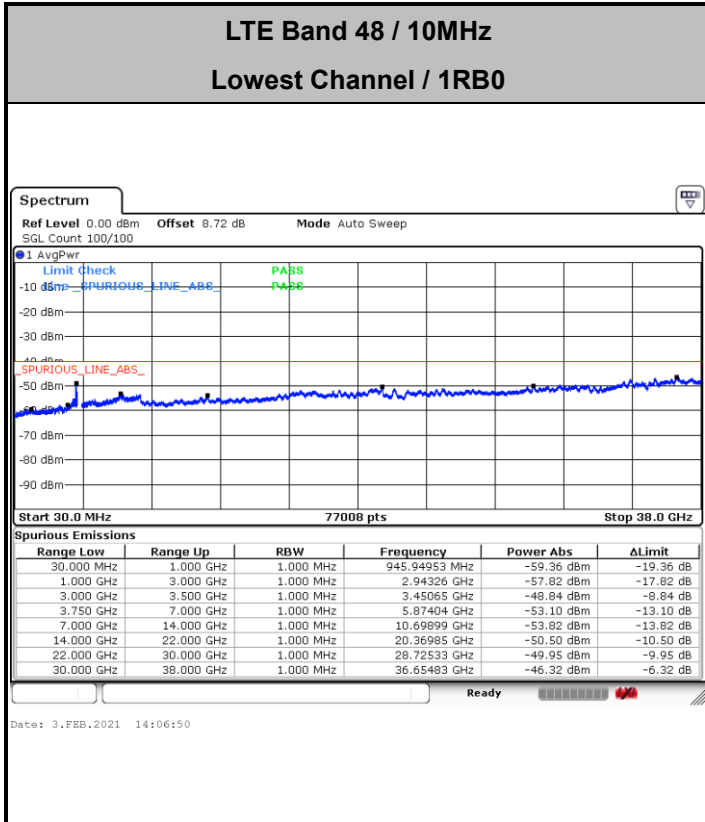


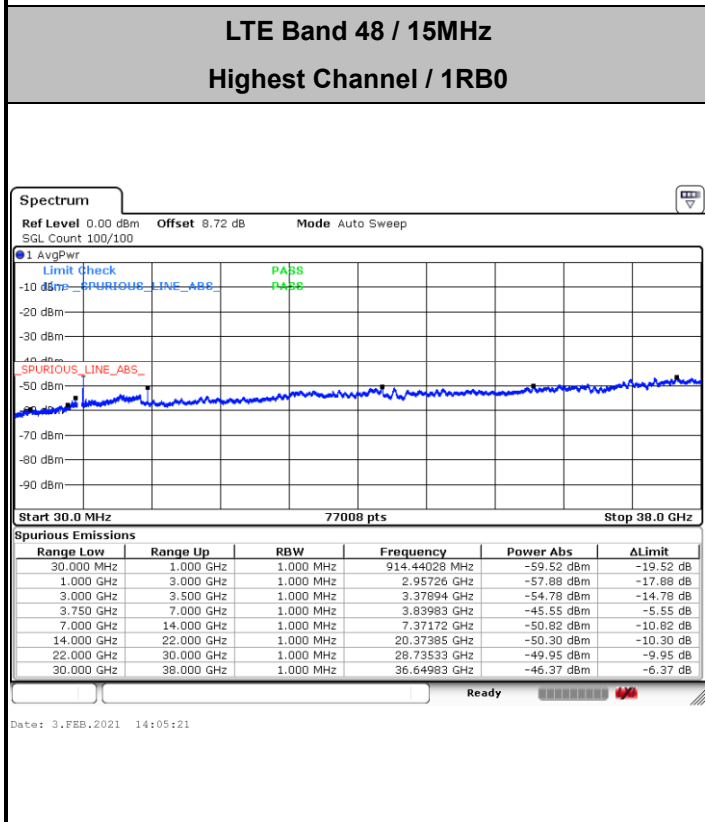
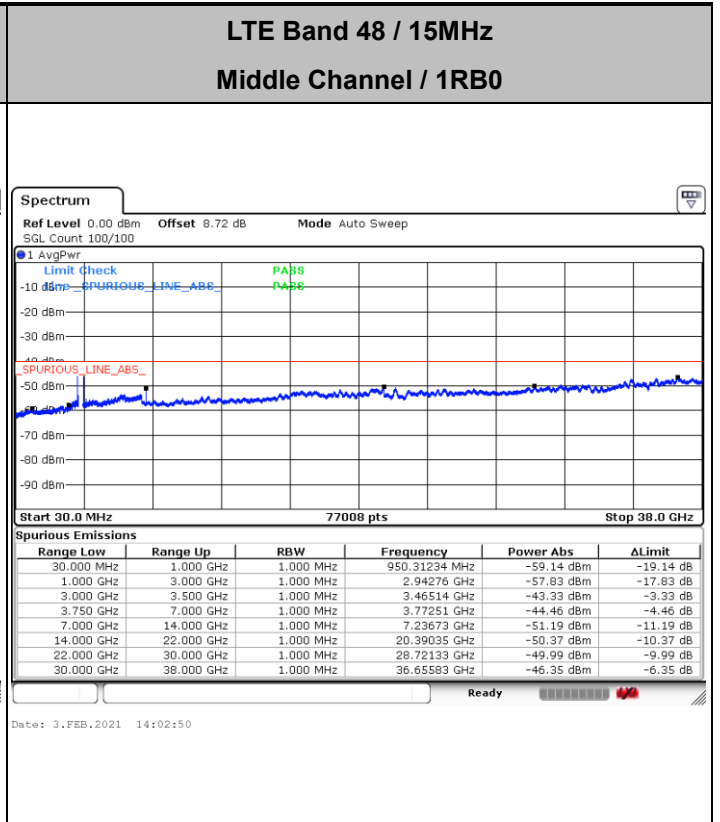
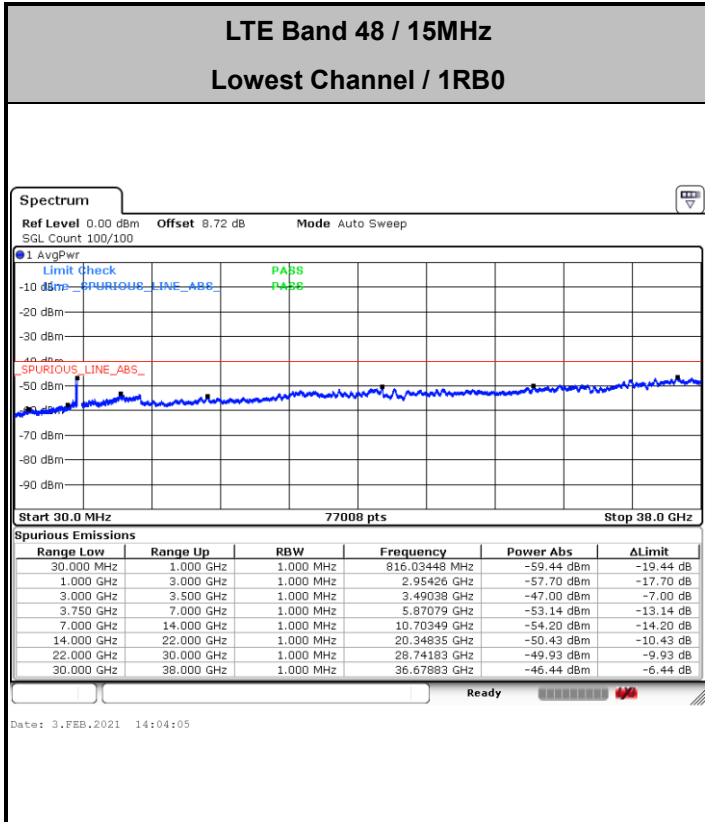
Date: 4.FEB.2021 10:49:17

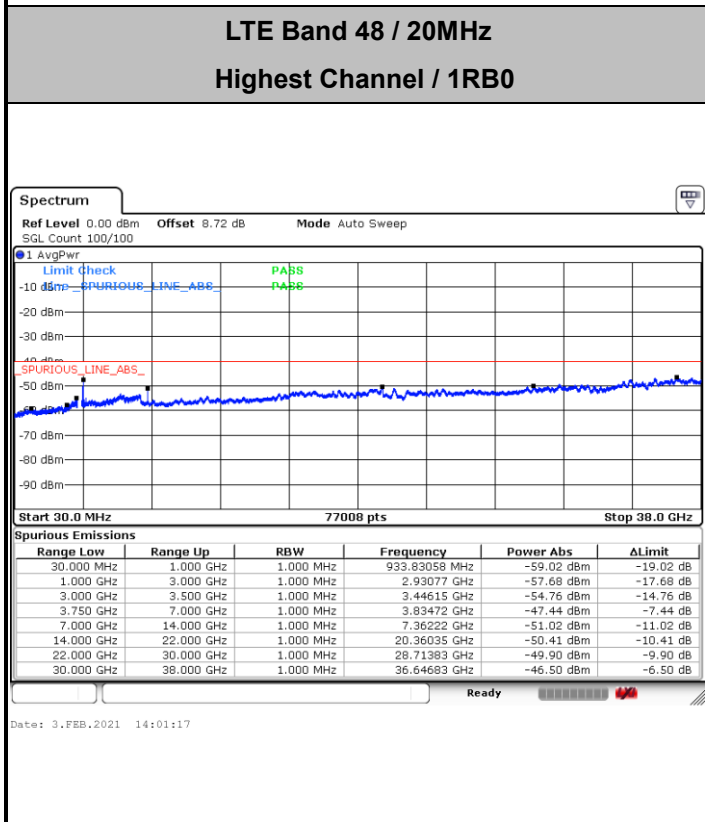
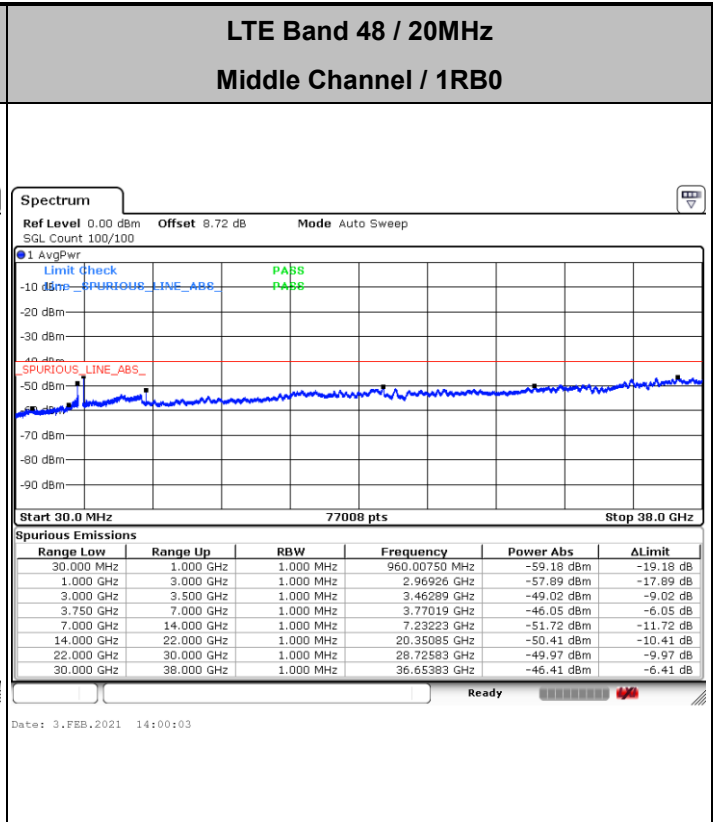
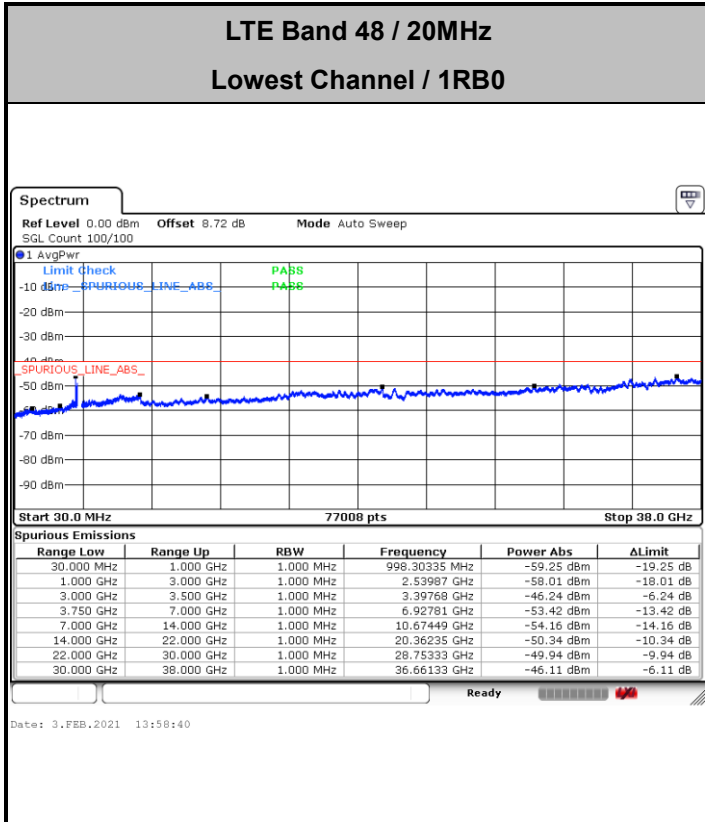


Conducted Spurious Emission











Frequency Stability

| Test Conditions | | LTE Band 48 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0043 | PASS |
| 40 | Normal Voltage | 0.0031 | |
| 30 | Normal Voltage | 0.0032 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0022 | |
| 0 | Normal Voltage | 0.0026 | |
| -10 | Normal Voltage | 0.0018 | |
| -20 | Normal Voltage | 0.0011 | |
| -30 | Normal Voltage | 0.0012 | |
| 20 | Maximum Voltage | 0.0021 | |
| 20 | Normal Voltage | 0.0010 | |
| 20 | Battery End Point | 0.0023 | |

Note:

1. Normal Voltage =3.3V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| LTE Band 48 / 20MHz / QPSK | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 7104 | -62.87 | -40 | -22.87 | -74.33 | 2.84 | 14.30 | H |
| | 10656 | -60.64 | -40 | -20.64 | -70.58 | 3.49 | 13.43 | H |
| | 14202 | -60.26 | -40 | -20.26 | -70.50 | 3.85 | 14.09 | H |
| | 7104 | -62.51 | -40 | -22.51 | -73.97 | 2.84 | 14.30 | V |
| | 10656 | -60.96 | -40 | -20.96 | -70.90 | 3.49 | 13.43 | V |
| | 14202 | -61.05 | -40 | -21.05 | -71.29 | 3.85 | 14.09 | V |
| Middle | 7230 | -62.44 | -40 | -22.44 | -73.90 | 2.84 | 14.30 | H |
| | 10848 | -61.04 | -40 | -21.04 | -70.98 | 3.49 | 13.43 | H |
| | 14466 | -59.50 | -40 | -19.50 | -69.74 | 3.85 | 14.09 | H |
| | 7230 | -62.37 | -40 | -22.37 | -73.83 | 2.84 | 14.30 | V |
| | 10848 | -61.54 | -40 | -21.54 | -71.48 | 3.49 | 13.43 | V |
| | 14466 | -60.35 | -40 | -20.35 | -70.59 | 3.85 | 14.09 | V |
| Highest | 7362 | -62.68 | -40 | -22.68 | -74.14 | 2.84 | 14.30 | H |
| | 11046 | -60.98 | -40 | -20.98 | -70.92 | 3.49 | 13.43 | H |
| | 14724 | -58.85 | -40 | -18.85 | -69.09 | 3.85 | 14.09 | H |
| | 7362 | -62.34 | -40 | -22.34 | -73.80 | 2.84 | 14.30 | V |
| | 11046 | -61.39 | -40 | -21.39 | -71.33 | 3.49 | 13.43 | V |
| | 14724 | -60.03 | -40 | -20.03 | -70.27 | 3.85 | 14.09 | V |

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