

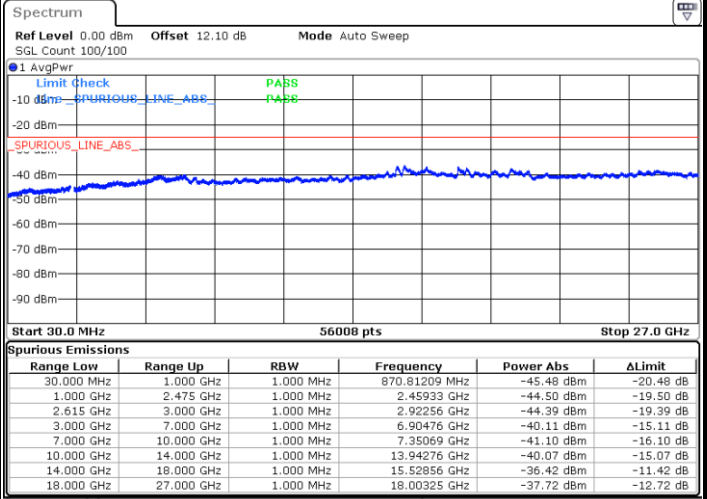
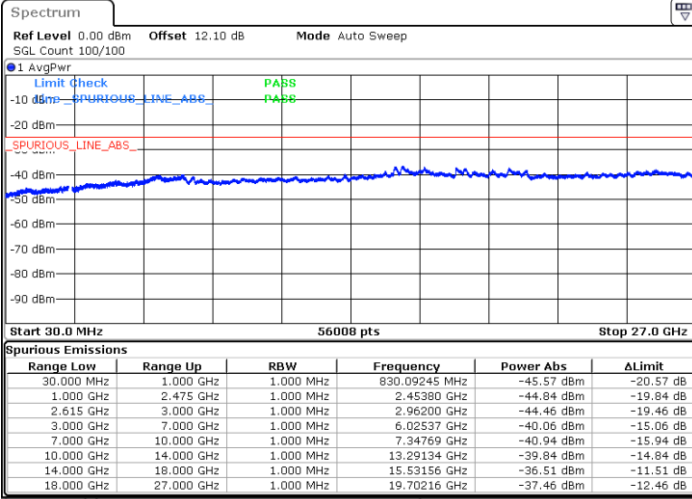


LTE Band 7C / 20MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0

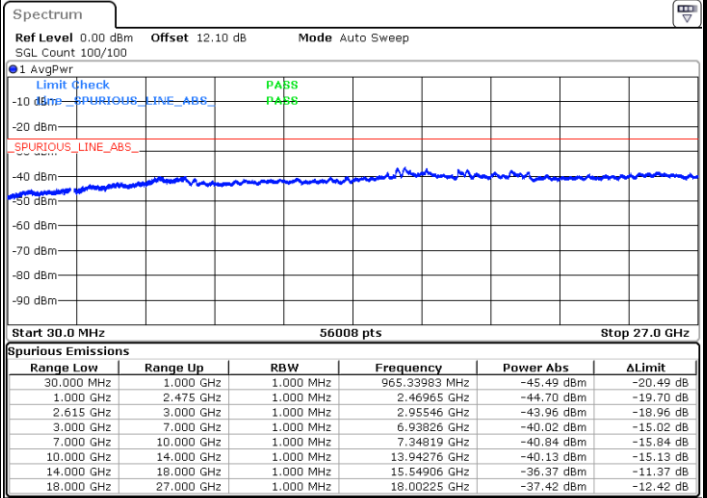
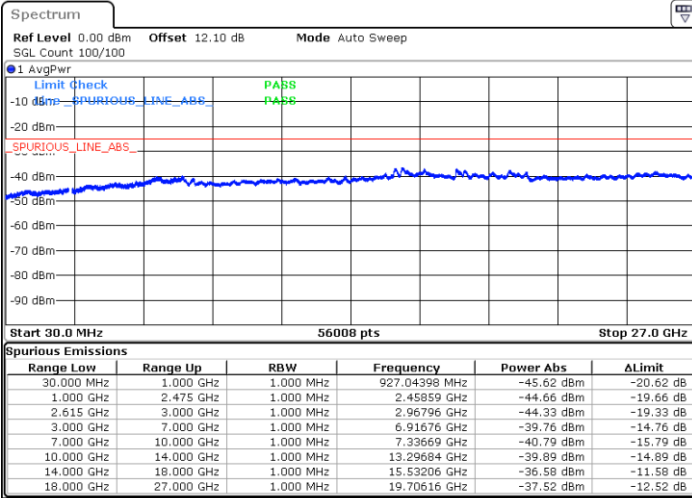


Date: 28.DEC.2023 03:34:11

Date: 28.DEC.2023 03:32:58

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 03:40:36

Date: 28.DEC.2023 03:41:50

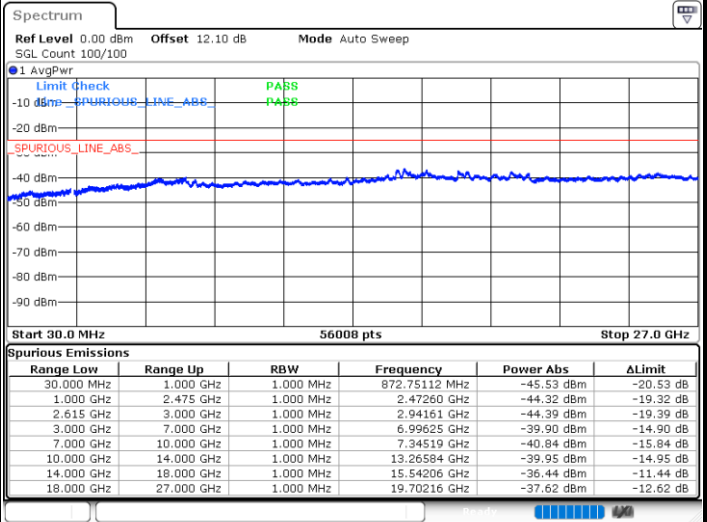
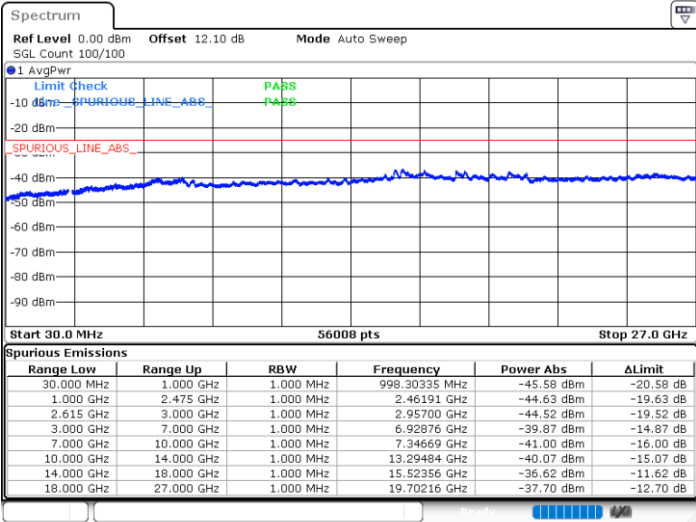


LTE Band 7C / 20MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 03:18:10

Date: 28.DEC.2023 03:16:56

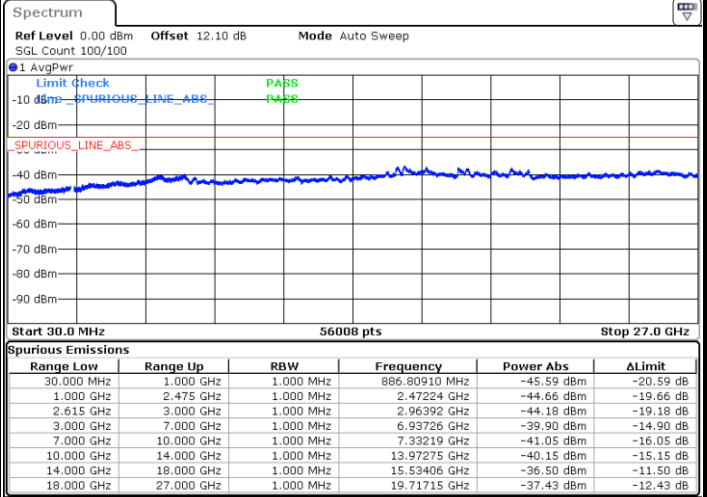
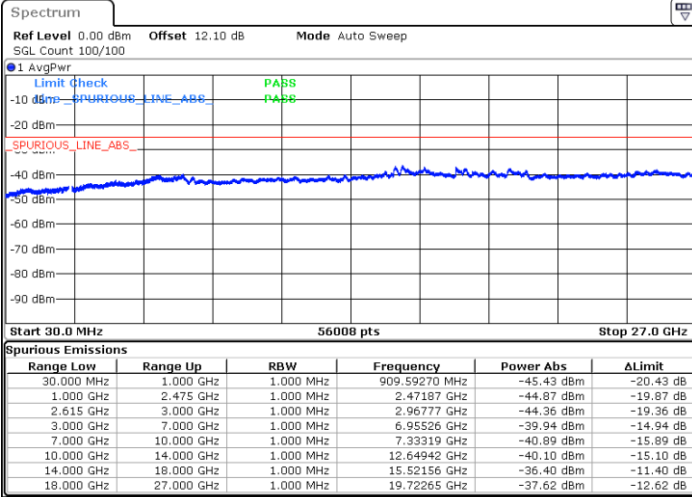


LTE Band 7C / 20MHz+15MHz

QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0

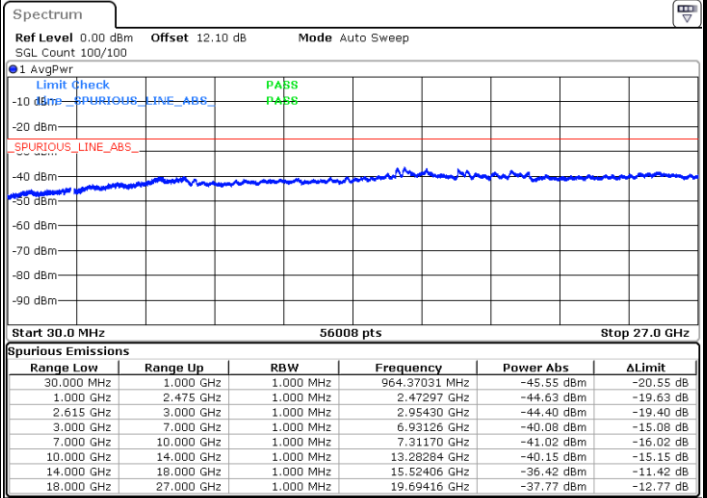
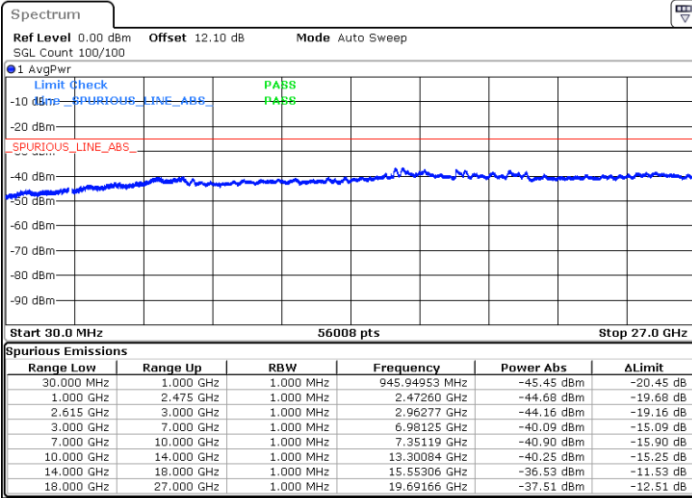


Date: 28.DEC.2023 05:37:12

Date: 28.DEC.2023 05:35:59

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 05:43:37

Date: 28.DEC.2023 05:44:50

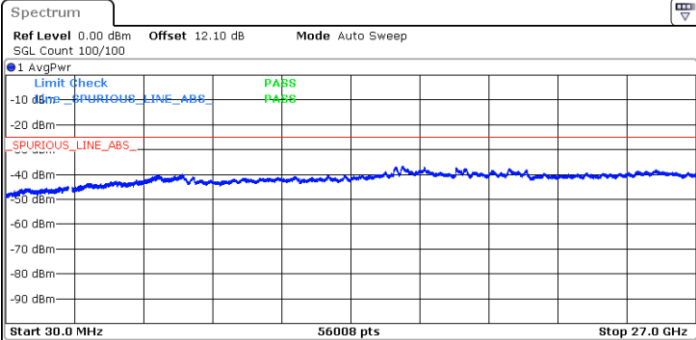


LTE Band 7C / 20MHz+15MHz

QPSK

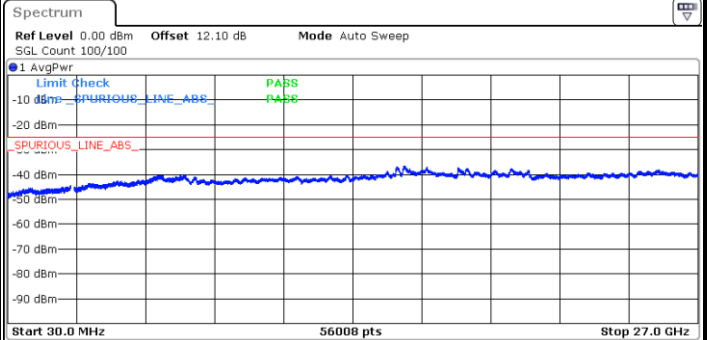
Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 926.55922 MHz | -45.61 dBm | -20.61 dB |
| 1.000 GHz  | 2.475 GHz  | 1.000 MHz | 2.46265 GHz   | -44.79 dBm | -19.79 dB |
| 2.615 GHz  | 3.000 GHz  | 1.000 MHz | 2.93776 GHz   | -44.33 dBm | -19.33 dB |
| 3.000 GHz  | 7.000 GHz  | 1.000 MHz | 6.92376 GHz   | -39.88 dBm | -14.88 dB |
| 7.000 GHz  | 10.000 GHz | 1.000 MHz | 7.35019 GHz   | -41.02 dBm | -16.02 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.30084 GHz  | -40.20 dBm | -15.20 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.54056 GHz  | -36.54 dBm | -11.54 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.72365 GHz  | -37.62 dBm | -12.62 dB |

Date: 28.DEC.2023 05:21:10



| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 985.69965 MHz | -45.45 dBm | -20.45 dB |
| 1.000 GHz  | 2.475 GHz  | 1.000 MHz | 2.47371 GHz   | -44.51 dBm | -19.51 dB |
| 2.615 GHz  | 3.000 GHz  | 1.000 MHz | 2.97374 GHz   | -44.47 dBm | -19.47 dB |
| 3.000 GHz  | 7.000 GHz  | 1.000 MHz | 6.99625 GHz   | -40.24 dBm | -15.24 dB |
| 7.000 GHz  | 10.000 GHz | 1.000 MHz | 7.33469 GHz   | -40.88 dBm | -15.88 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.95076 GHz  | -40.18 dBm | -15.18 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.55056 GHz  | -36.71 dBm | -11.71 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.73115 GHz  | -37.64 dBm | -12.64 dB |

Date: 28.DEC.2023 05:19:57

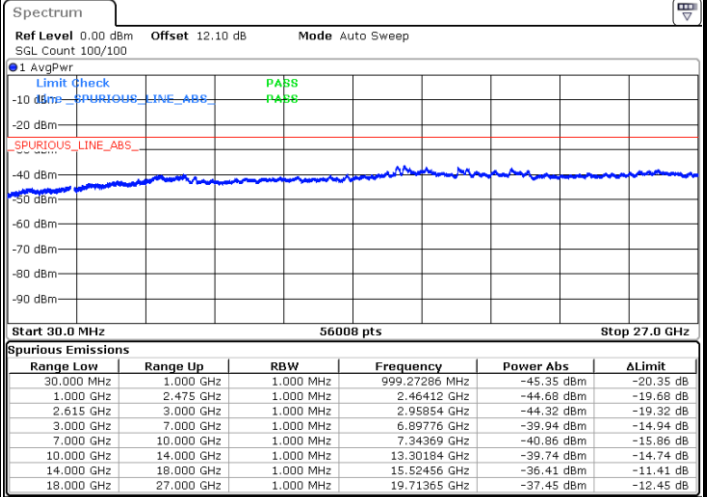
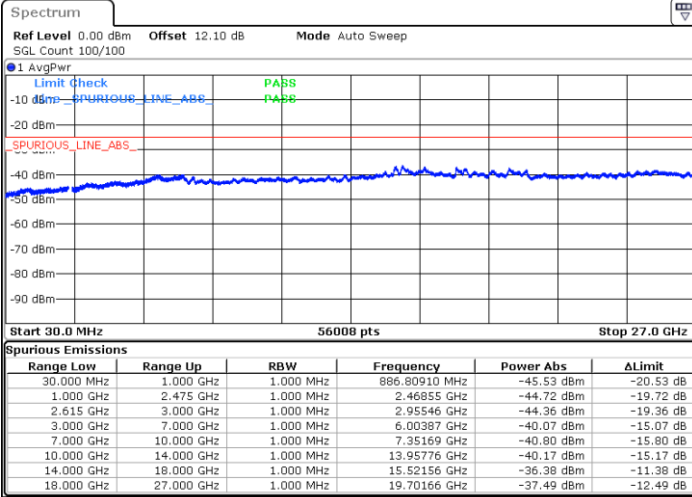


LTE Band 7C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

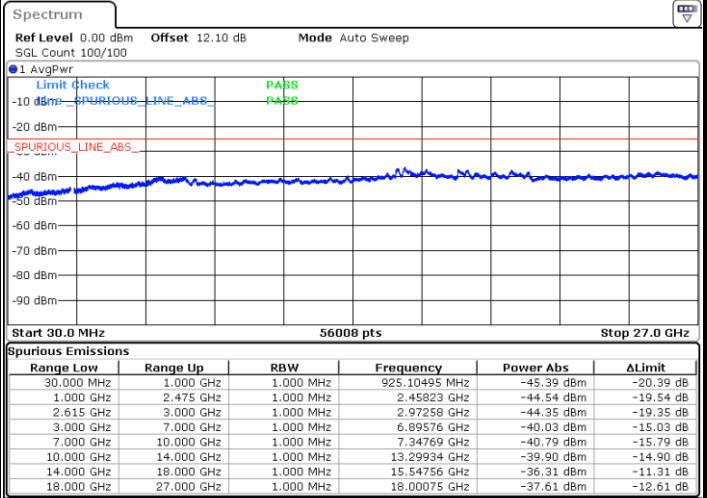
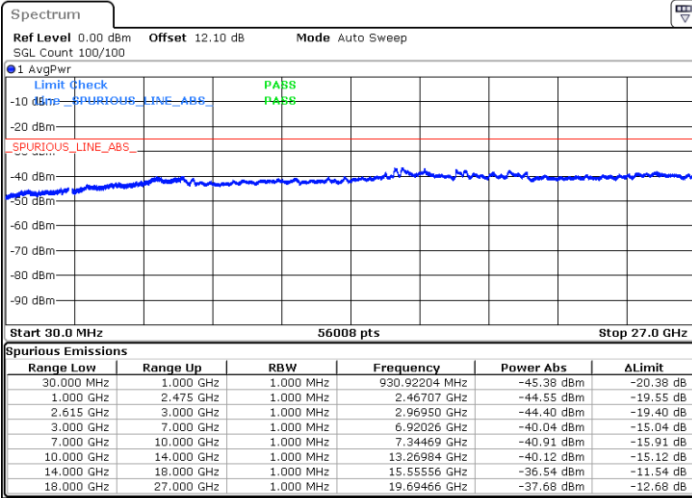


Date: 28.DEC.2023 06:16:52

Date: 28.DEC.2023 06:15:39

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 06:23:17

Date: 28.DEC.2023 06:24:31

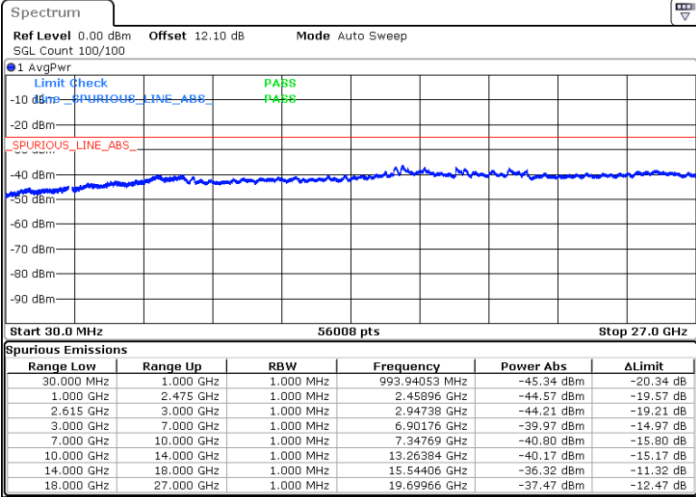


LTE Band 7C / 20MHz+20MHz

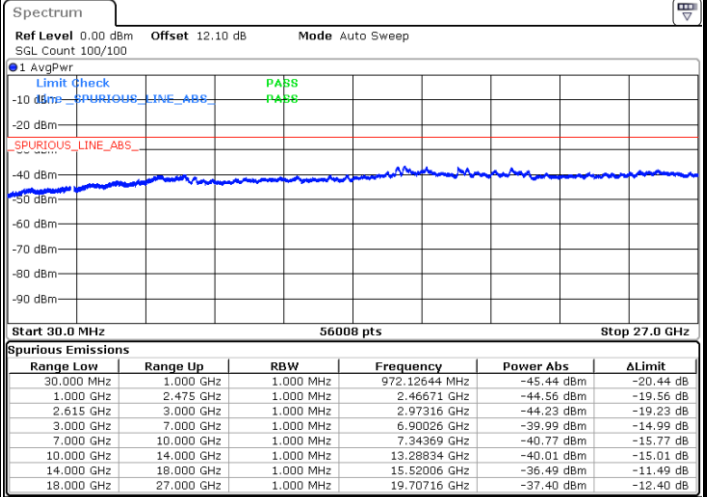
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 06:00:51



Date: 28.DEC.2023 05:59:38



## LTE Band 12

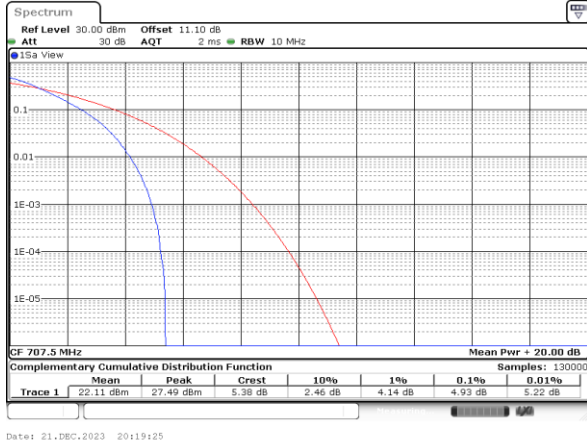
### Peak-to-Average Ratio

| Mode      | LTE Band 12 / 10MHz |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.93                | 5.86    | 6.20    | 6.64    | <b>PASS</b> |



LTE Band 12 / 10MHz / QPSK

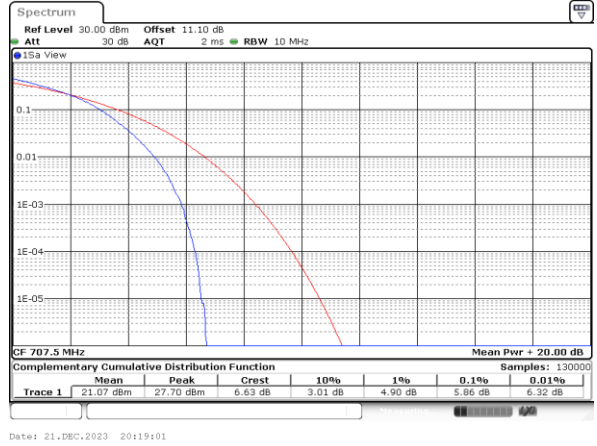
Middle Channel / Full RB



Date: 21.DEC.2023 20:19:25

LTE Band 12 / 10MHz / 16QAM

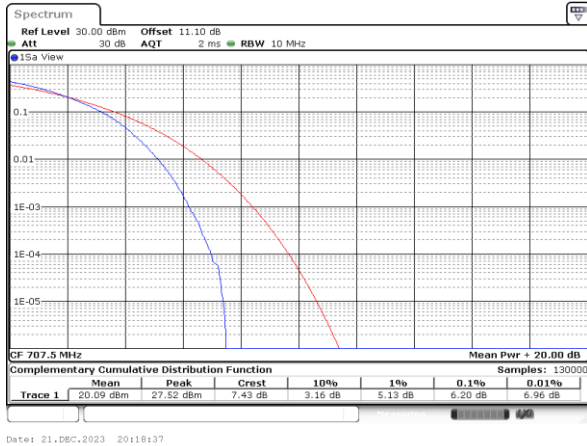
Middle Channel / Full RB



Date: 21.DEC.2023 20:19:01

LTE Band 12 / 10MHz / 64QAM

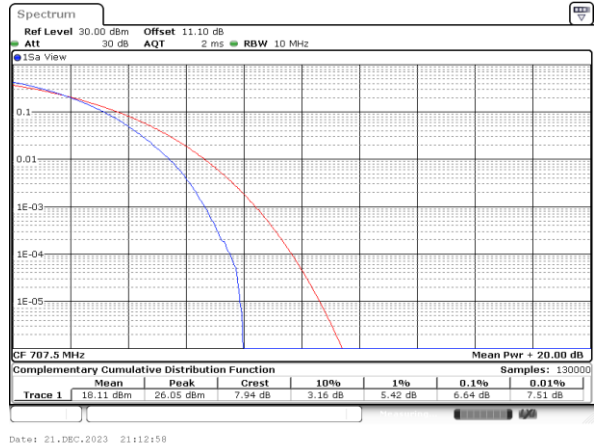
Middle Channel / Full RB



Date: 21.DEC.2023 20:18:37

LTE Band 12 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 21.DEC.2023 21:12:58





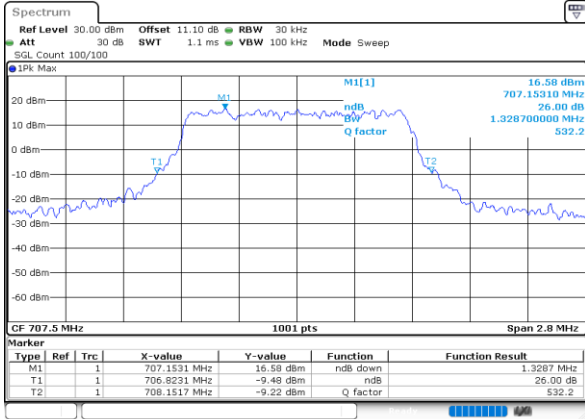
**26dB Bandwidth**

| Mode      | LTE Band 12 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|----------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                       | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 1.32                       | 1.30   | 3.06  | 3.00   | 4.97  | 5.01   | 9.86  | 9.83   | -     | -      | -     | -      |
| Mode      | LTE Band 12 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                      | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 1.34                       | 1.32   | 3.02  | 2.99   | 5.01  | 4.98   | 9.78  | 9.76   | -     | -      | -     | -      |



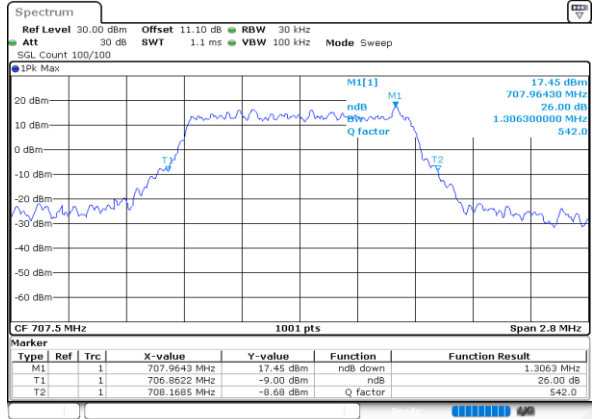
LTE Band 12

Middle Channel / 1.4MHz / QPSK



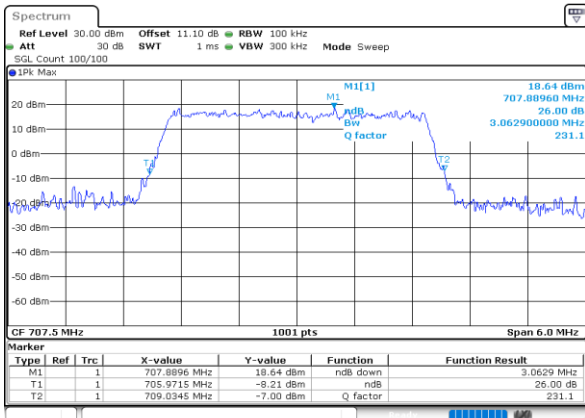
Date: 21.DEC.2023 19:45:26

Middle Channel / 1.4MHz / 16QAM



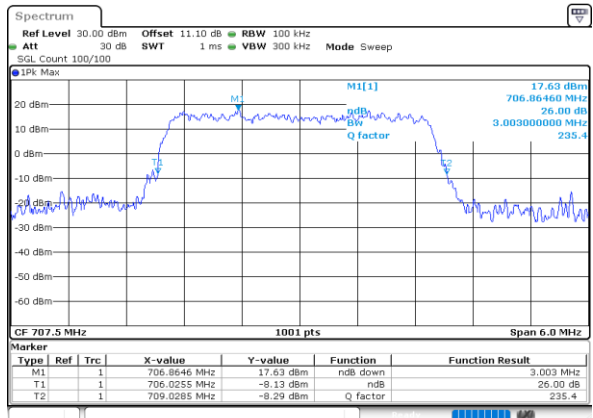
Date: 21.DEC.2023 19:45:49

Middle Channel / 3MHz / QPSK



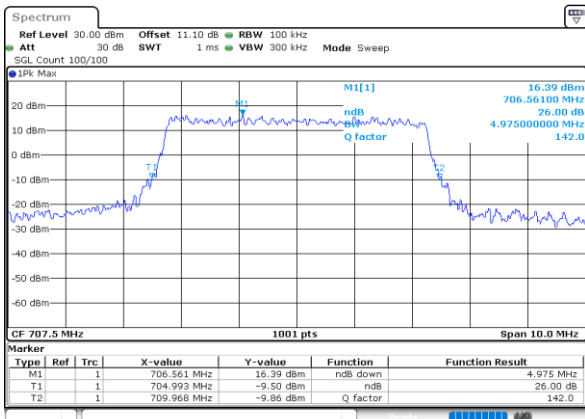
Date: 21.DEC.2023 19:58:44

Middle Channel / 3MHz / 16QAM



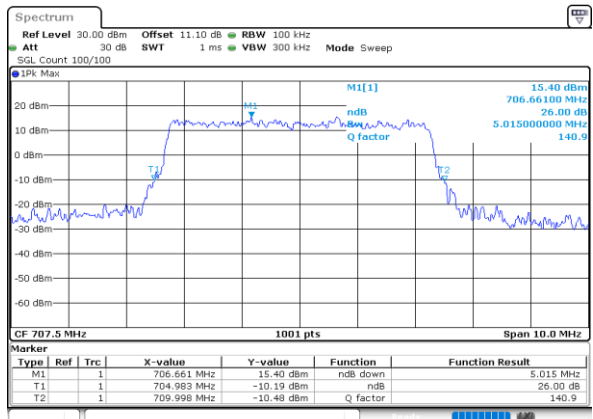
Date: 21.DEC.2023 19:59:07

Middle Channel / 5MHz / QPSK



Date: 21.DEC.2023 20:08:41

Middle Channel / 5MHz / 16QAM

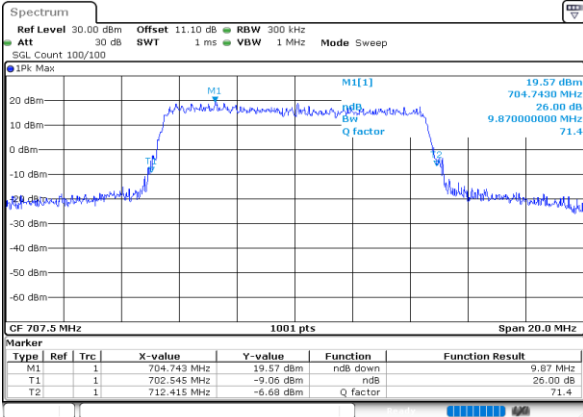


Date: 21.DEC.2023 20:09:03



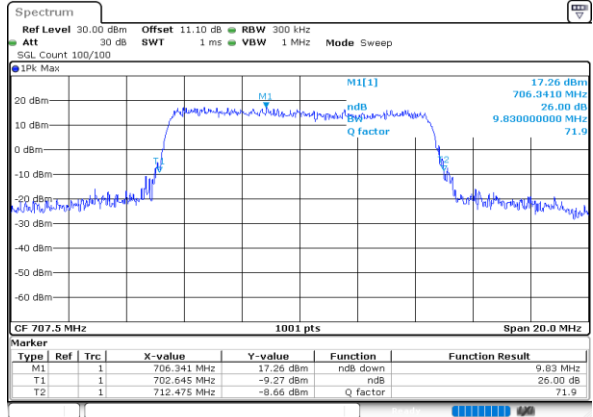
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 21. DEC. 2023 20:13:39

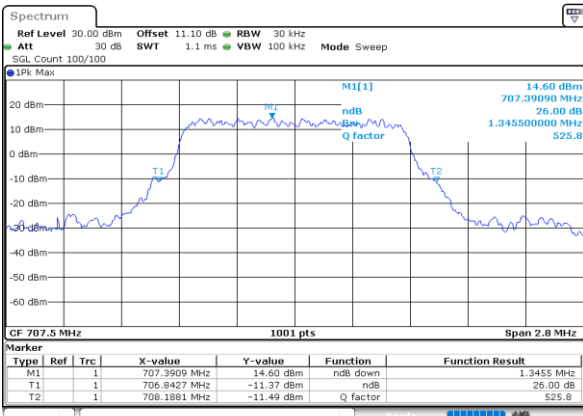
Middle Channel / 10MHz / 16QAM



Date: 21. DEC. 2023 20:14:02

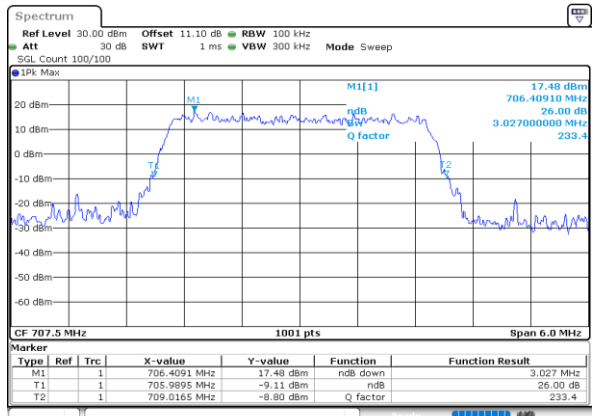
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



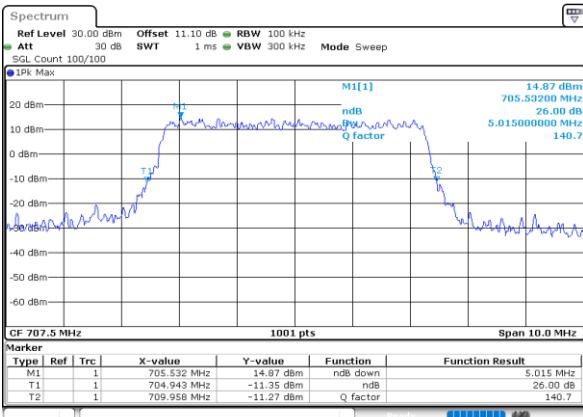
Date: 21. DEC. 2023 19:54:08

Middle Channel / 3MHz / 64QAM



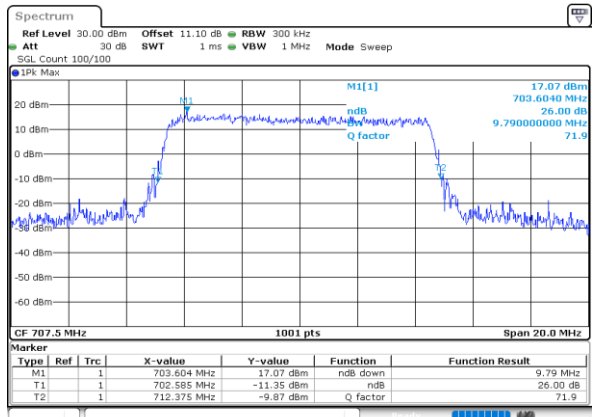
Date: 21. DEC. 2023 20:02:28

Middle Channel / 5MHz / 64QAM



Date: 21. DEC. 2023 20:04:57

Middle Channel / 10MHz / 64QAM

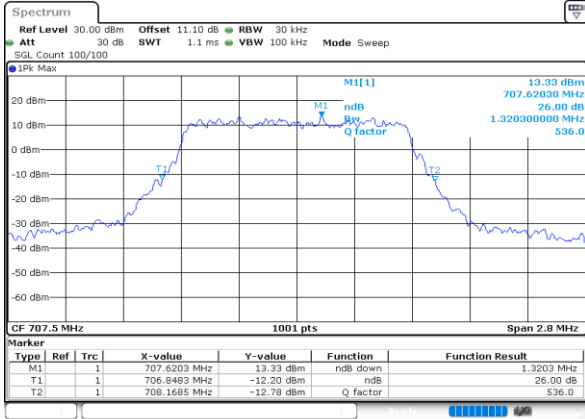


Date: 21. DEC. 2023 20:17:22



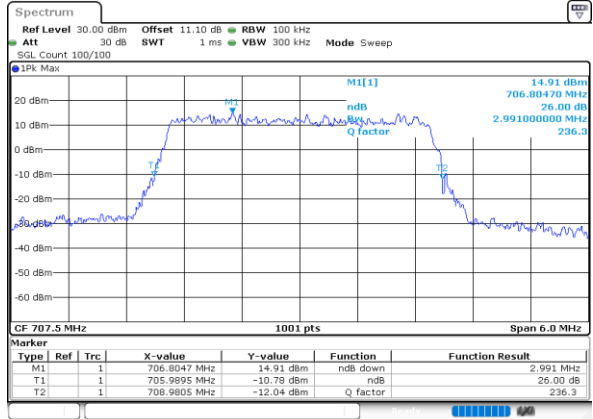
LTE Band 12

Middle Channel / 1.4MHz / 256QAM



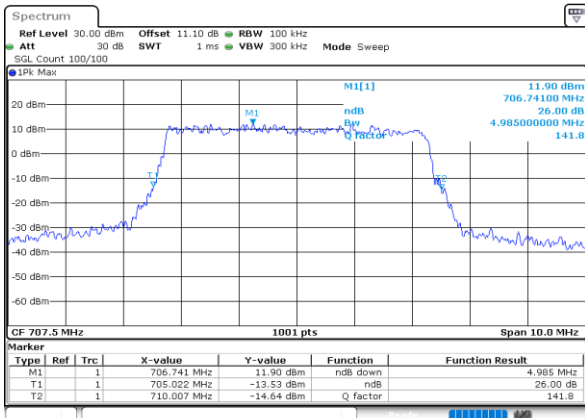
Date: 21.DEC.2023 20:22:15

Middle Channel / 3MHz / 256QAM



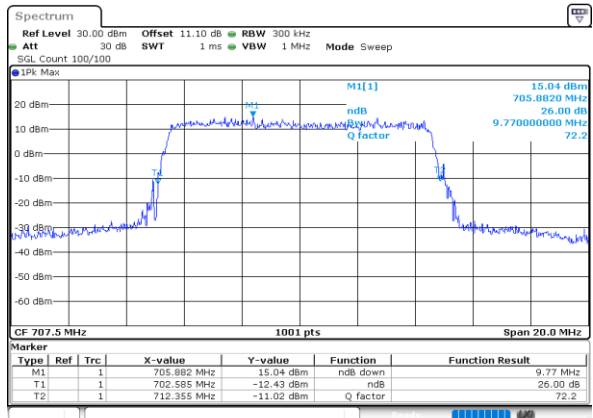
Date: 21.DEC.2023 21:40:50

Middle Channel / 5MHz / 256QAM



Date: 21.DEC.2023 20:53:19

Middle Channel / 10MHz / 256QAM



Date: 21.DEC.2023 21:41:43



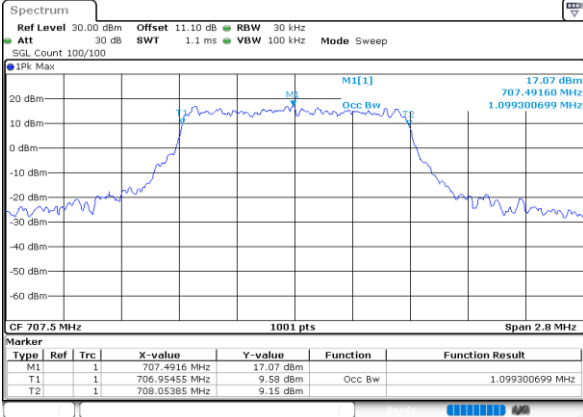
**Occupied Bandwidth**

| Mode      | LTE Band 12 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|---------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                      | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 1.09                      | 1.09   | 2.73  | 2.73   | 4.51  | 4.48   | 9.05  | 9.03   | -     | -      | -     | -      |
| Mode      | LTE Band 12 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                     | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 1.09                      | 1.09   | 2.72  | 2.72   | 4.48  | 4.52   | 9.07  | 9.07   | -     | -      | -     | -      |



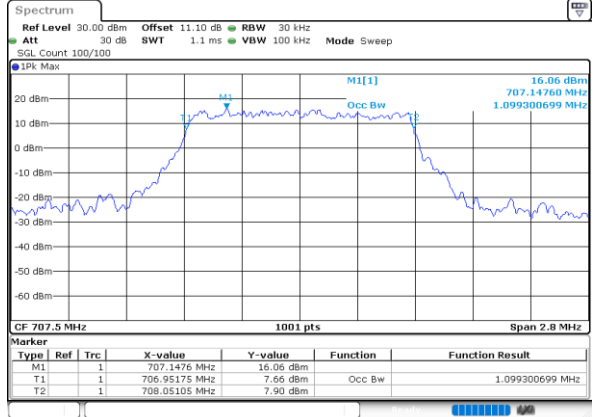
LTE Band 12

Middle Channel / 1.4MHz / QPSK



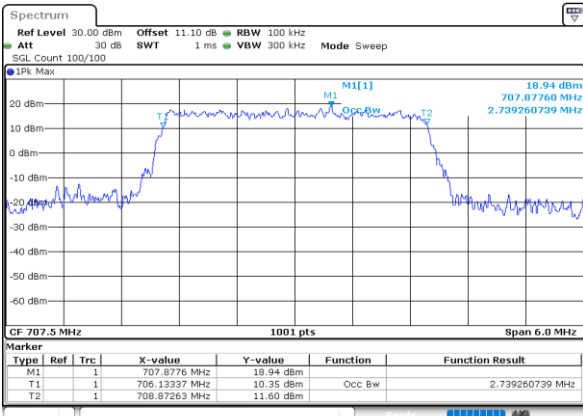
Date: 21.DEC.2023 19:45:04

Middle Channel / 1.4MHz / 16QAM



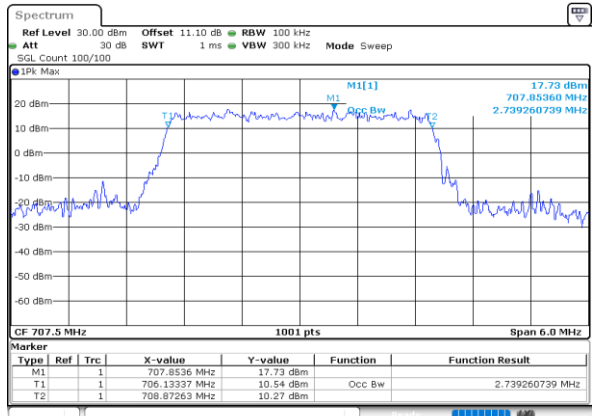
Date: 21.DEC.2023 19:44:41

Middle Channel / 3MHz / QPSK



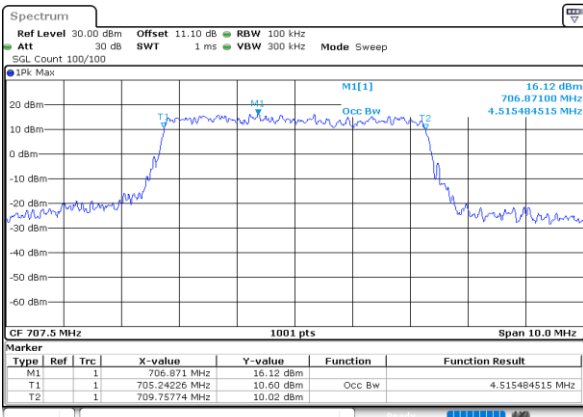
Date: 21.DEC.2023 19:58:22

Middle Channel / 3MHz / 16QAM



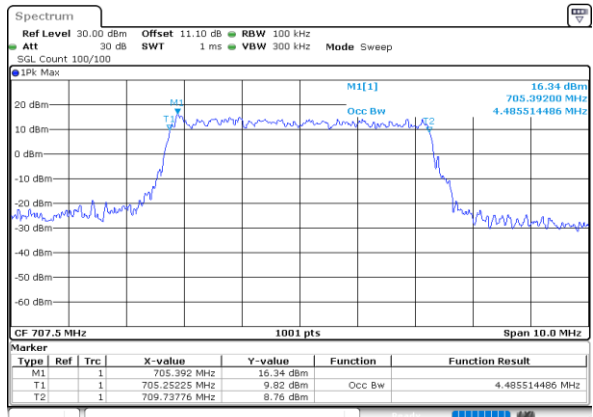
Date: 21.DEC.2023 19:57:59

Middle Channel / 5MHz / QPSK



Date: 21.DEC.2023 20:08:18

Middle Channel / 5MHz / 16QAM

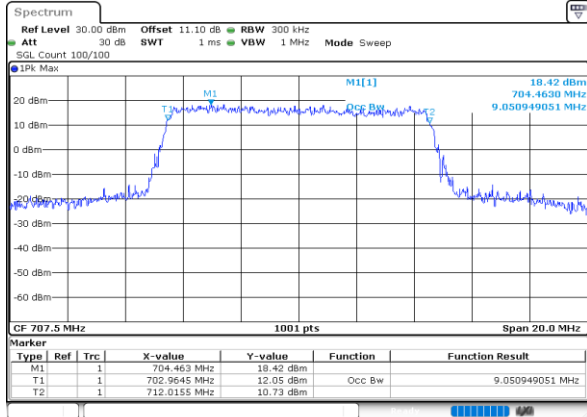


Date: 21.DEC.2023 20:07:56



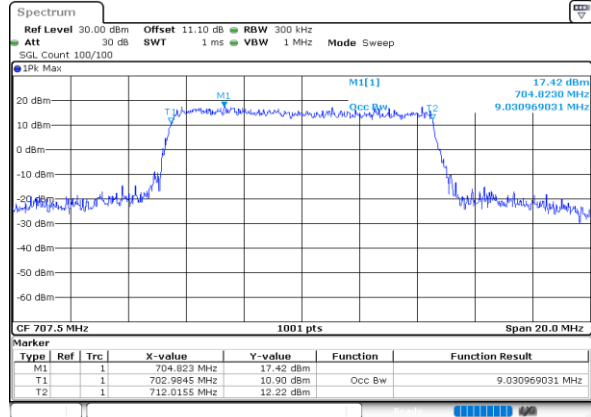
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 21.DEC.2023 20:13:17

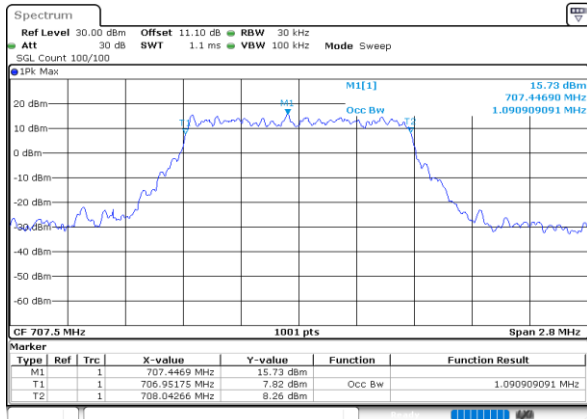
Middle Channel / 10MHz / 16QAM



Date: 21.DEC.2023 20:12:54

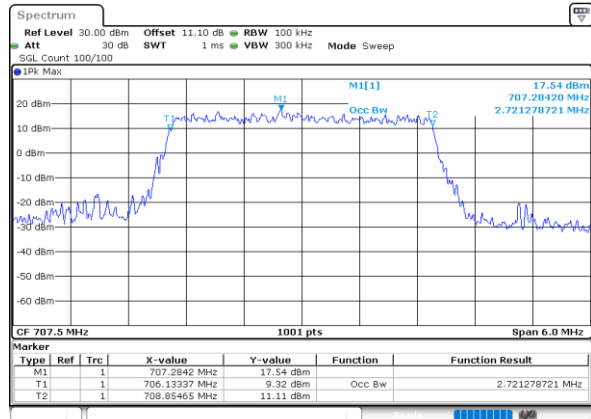
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



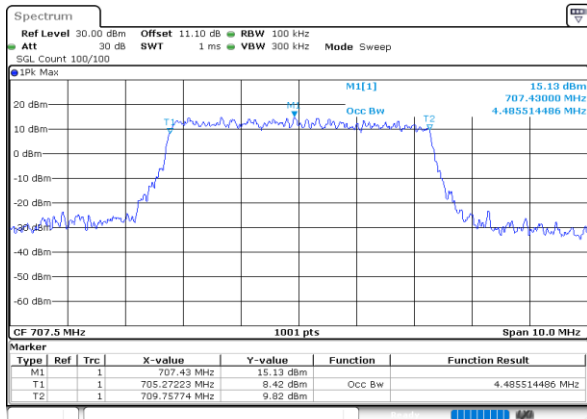
Date: 21.DEC.2023 19:53:46

Middle Channel / 3MHz / 64QAM



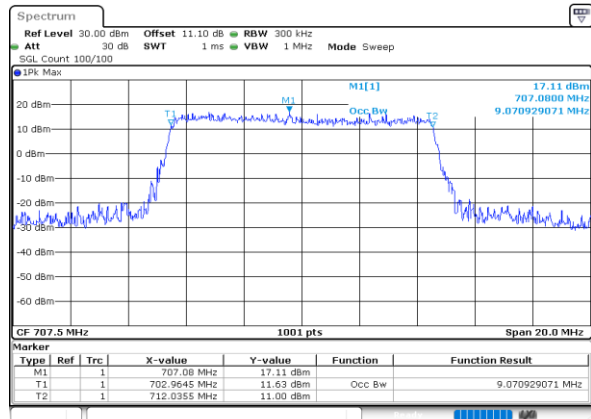
Date: 21.DEC.2023 20:02:05

Middle Channel / 5MHz / 64QAM



Date: 21.DEC.2023 20:04:35

Middle Channel / 10MHz / 64QAM

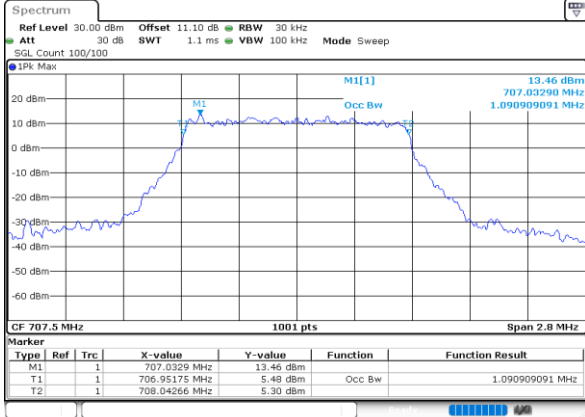


Date: 21.DEC.2023 20:17:00

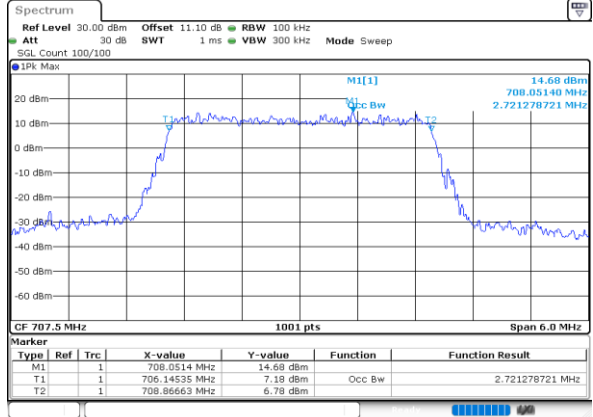


LTE Band 12

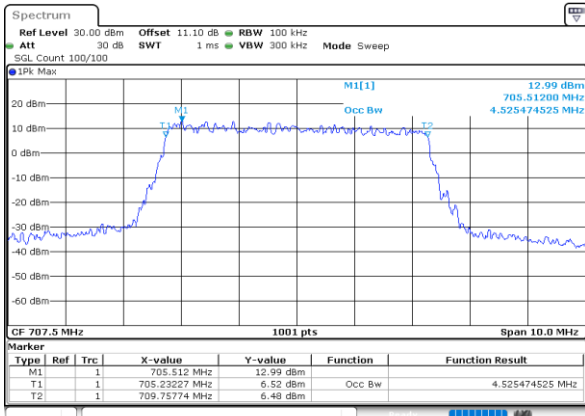
Middle Channel / 1.4MHz / 256QAM



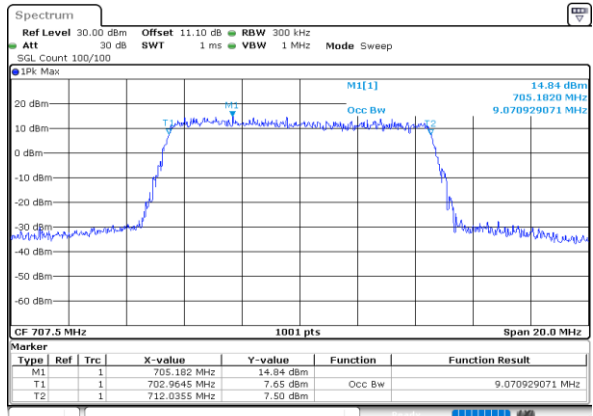
Middle Channel / 3MHz / 256QAM



Middle Channel / 5MHz / 256QAM



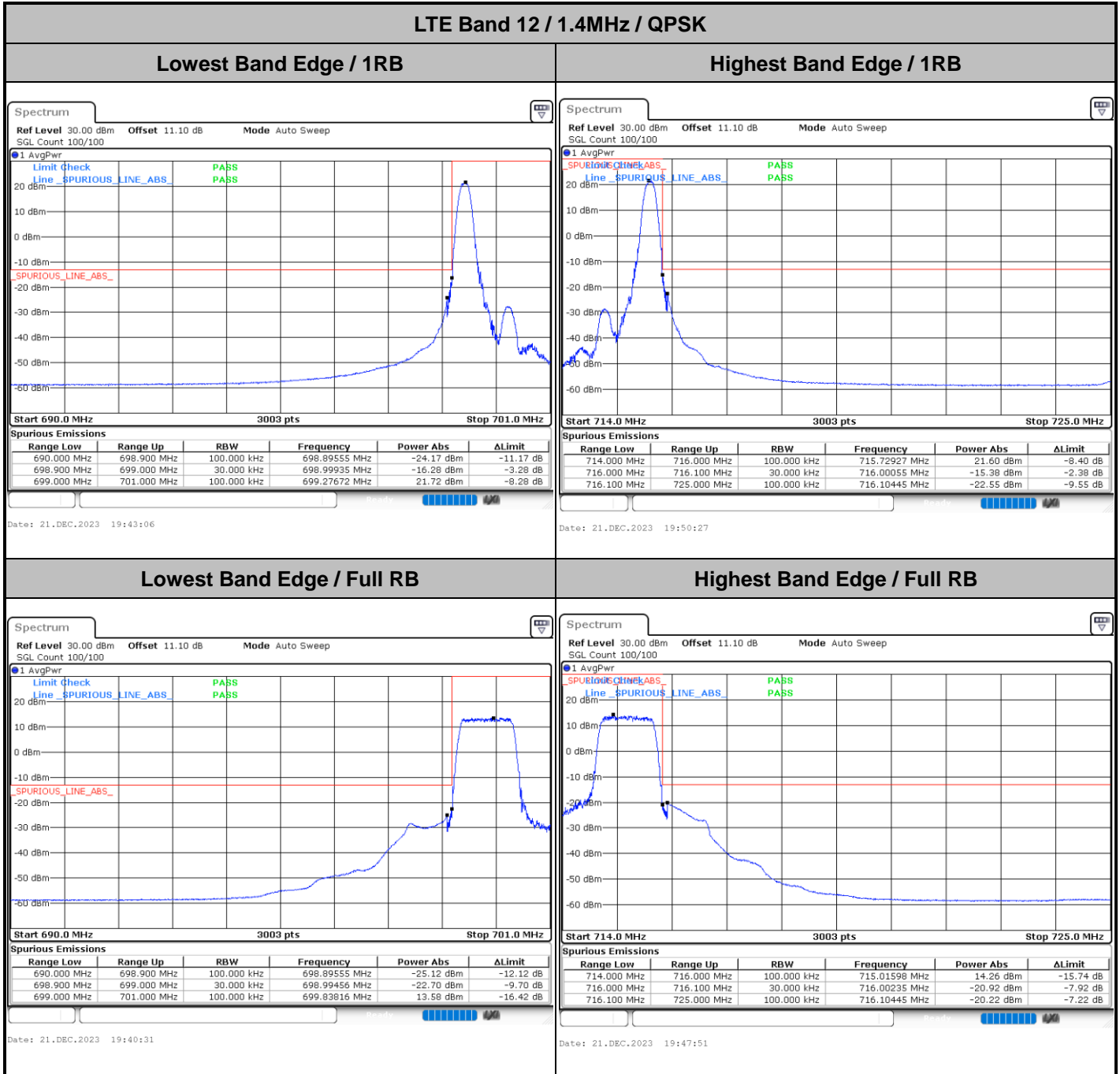
Middle Channel / 10MHz / 256QAM







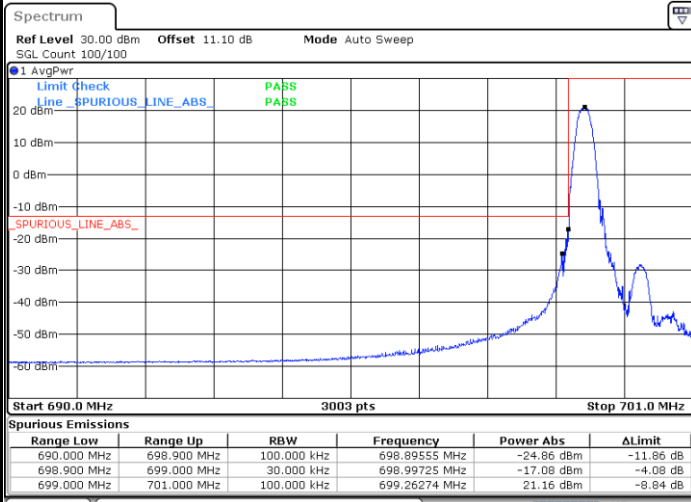
# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



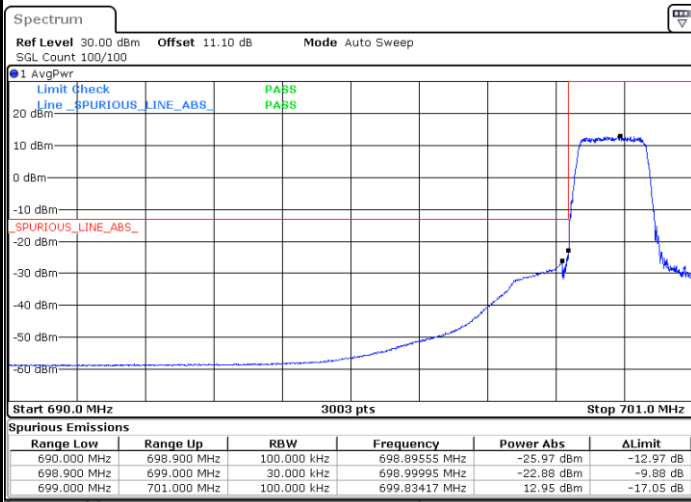
Date: 21.DEC.2023 19:42:15

Highest Band Edge / 1 RB



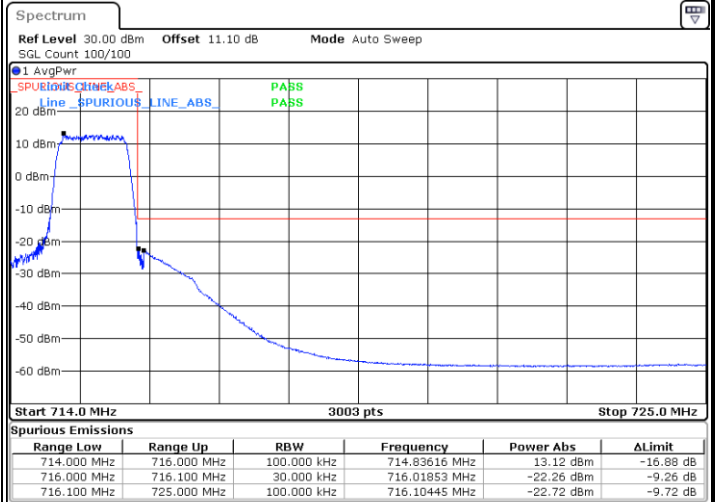
Date: 21.DEC.2023 19:49:35

Lowest Band Edge / Full RB



Date: 21.DEC.2023 19:41:23

Highest Band Edge / Full RB

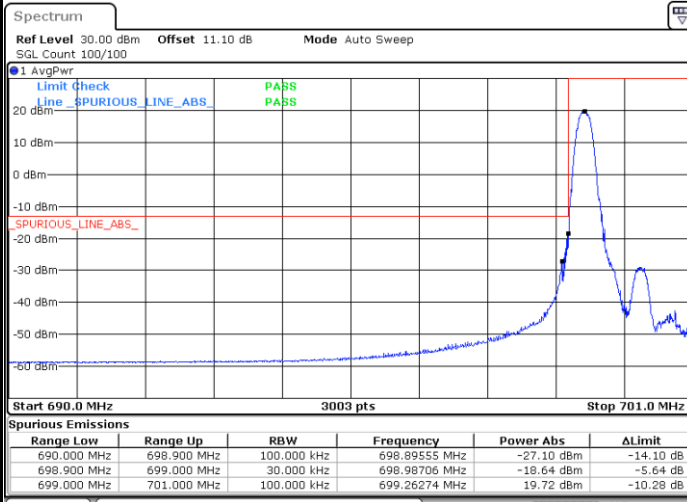


Date: 21.DEC.2023 19:48:43



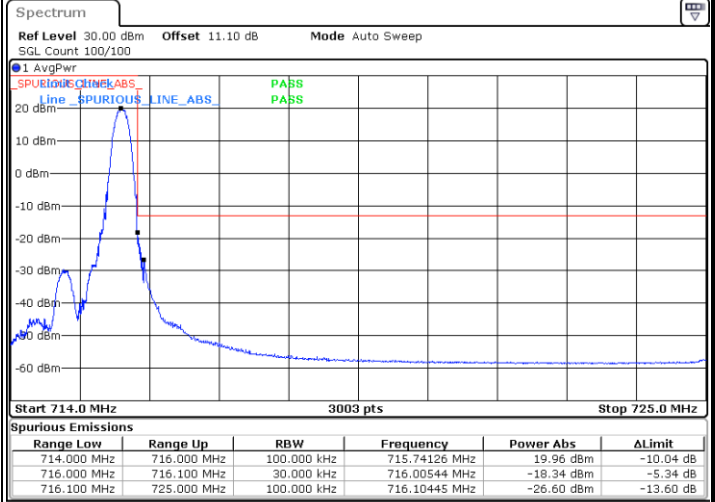
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



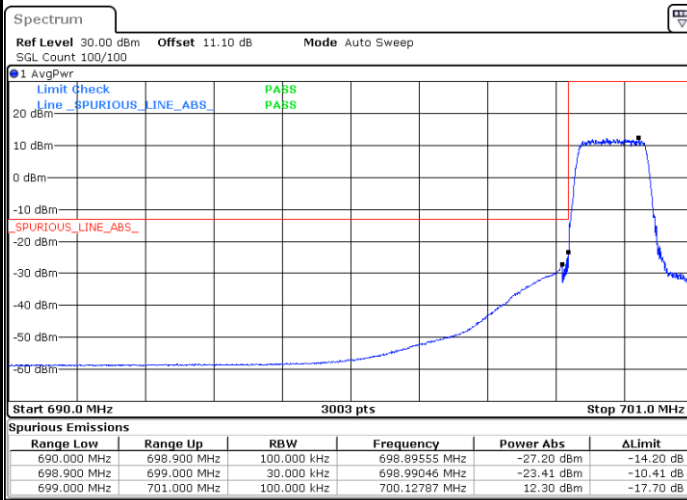
Date: 21.DEC.2023 19:53:22

Highest Band Edge / 1 RB



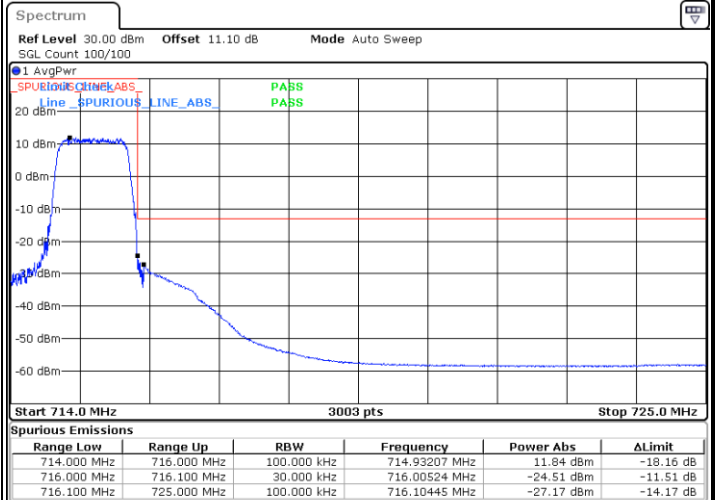
Date: 21.DEC.2023 19:55:51

Lowest Band Edge / Full RB



Date: 21.DEC.2023 19:52:30

Highest Band Edge / Full RB

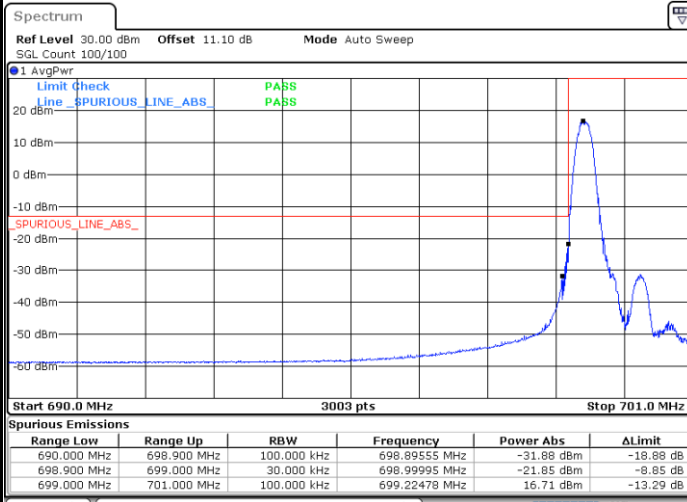


Date: 21.DEC.2023 19:54:59



LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



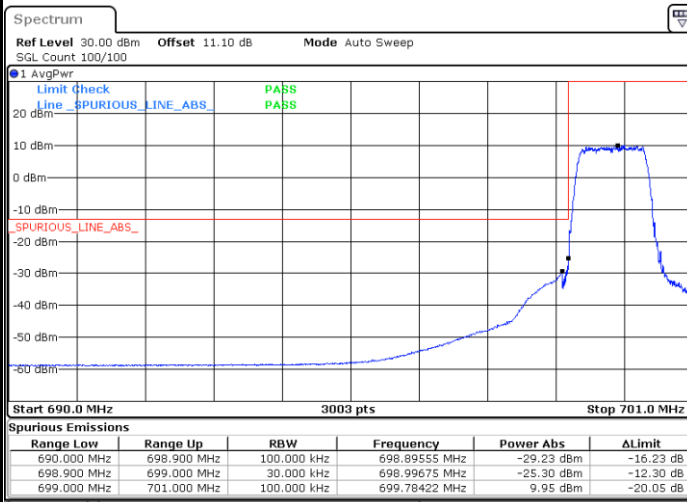
Date: 21.DEC.2023 20:21:11

Highest Band Edge / 1 RB



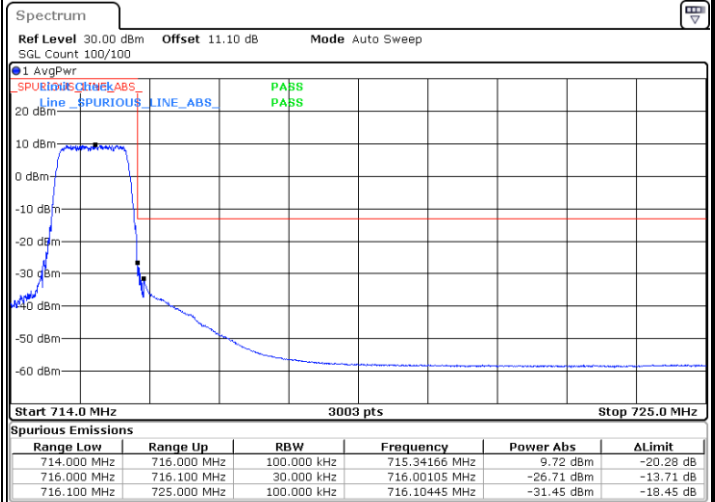
Date: 21.DEC.2023 20:24:48

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:20:16

Highest Band Edge / Full RB



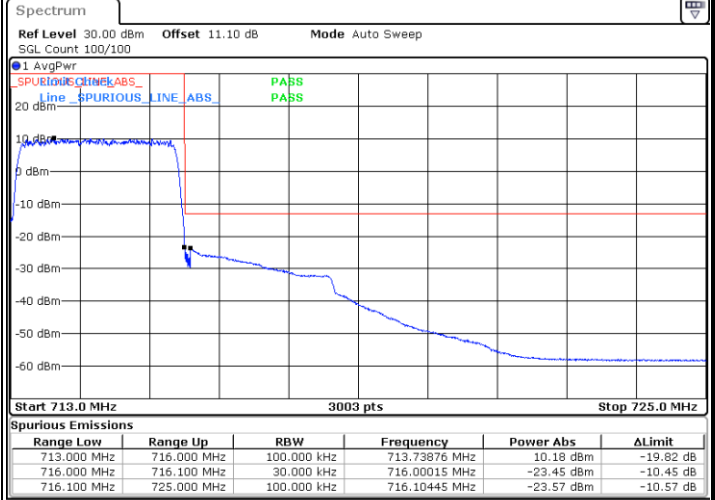
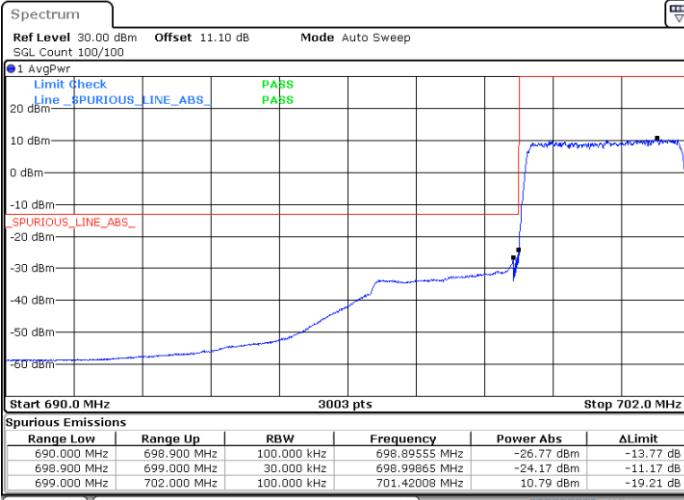
Date: 21.DEC.2023 20:23:53



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



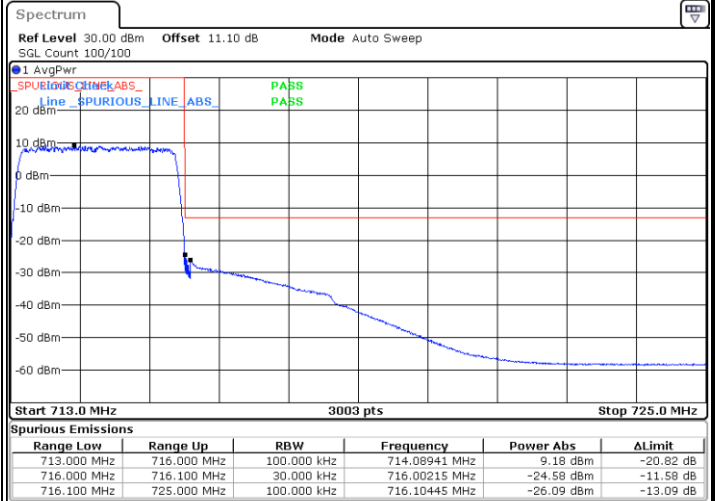
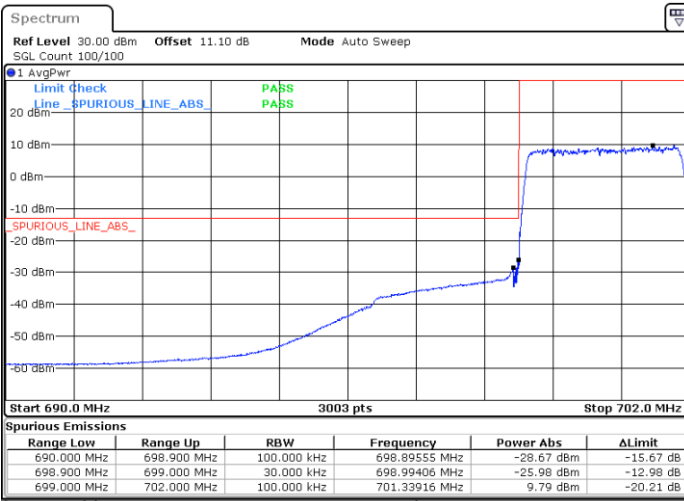
Date: 21.DEC.2023 19:56:44

Date: 21.DEC.2023 19:59:58

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.DEC.2023 19:57:36

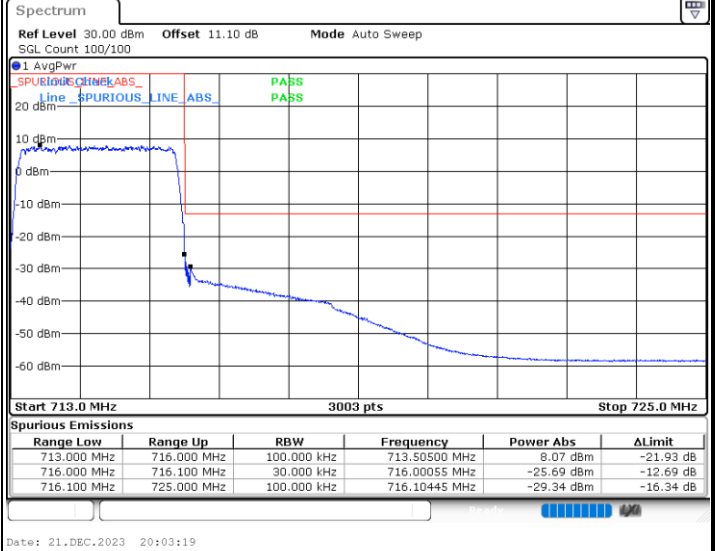
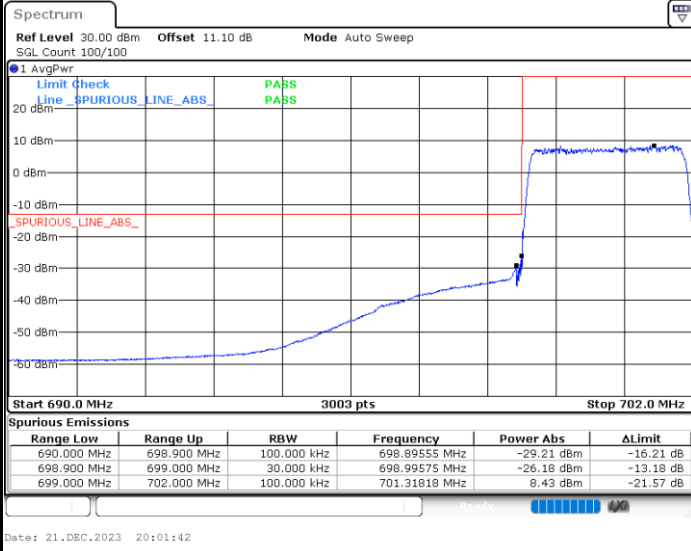
Date: 21.DEC.2023 20:00:50



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / Full RB

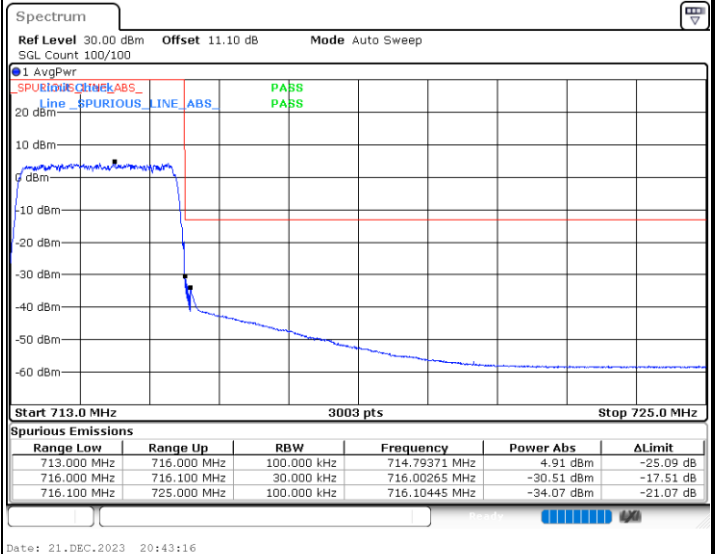
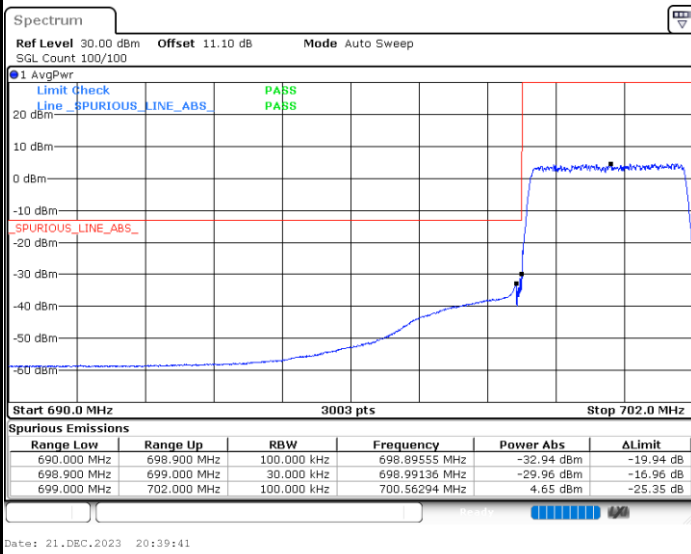
Highest Band Edge / Full RB



LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / Full RB

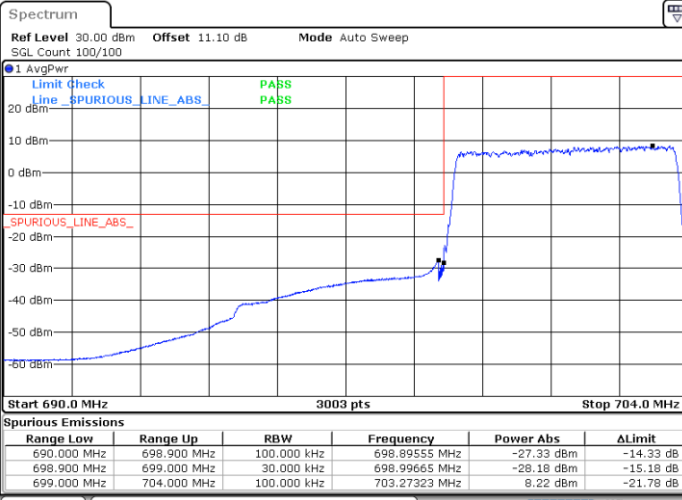
Highest Band Edge / Full RB





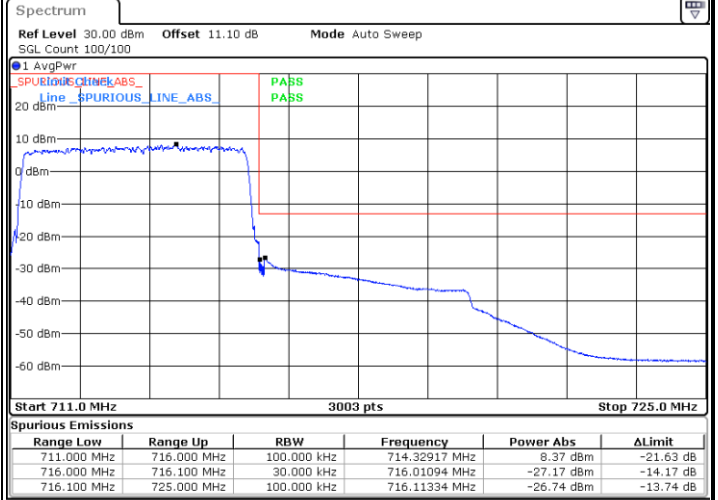
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:06:41

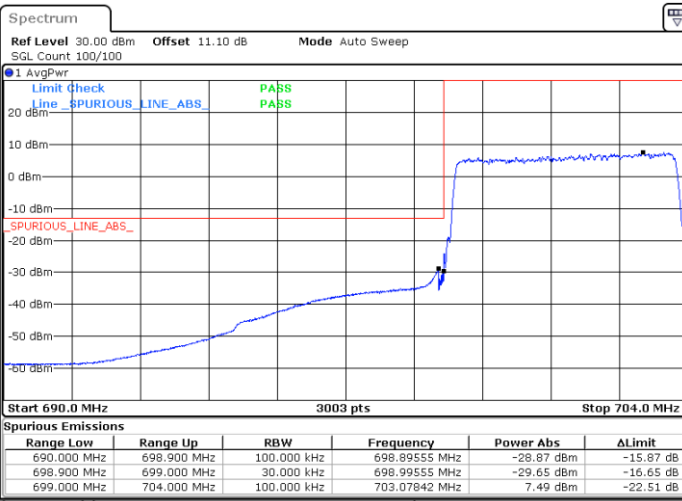
Highest Band Edge / Full RB



Date: 21.DEC.2023 20:09:55

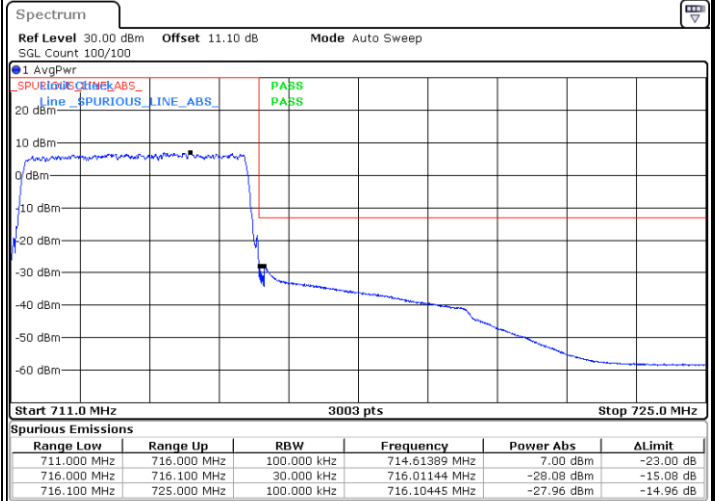
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:07:33

Highest Band Edge / Full RB

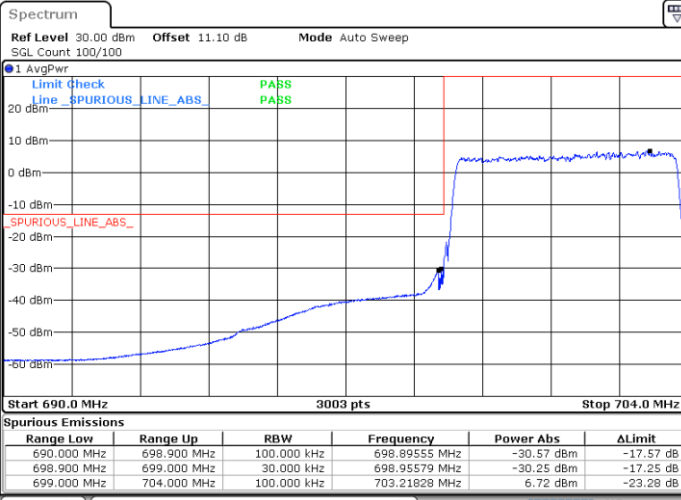


Date: 21.DEC.2023 20:10:47



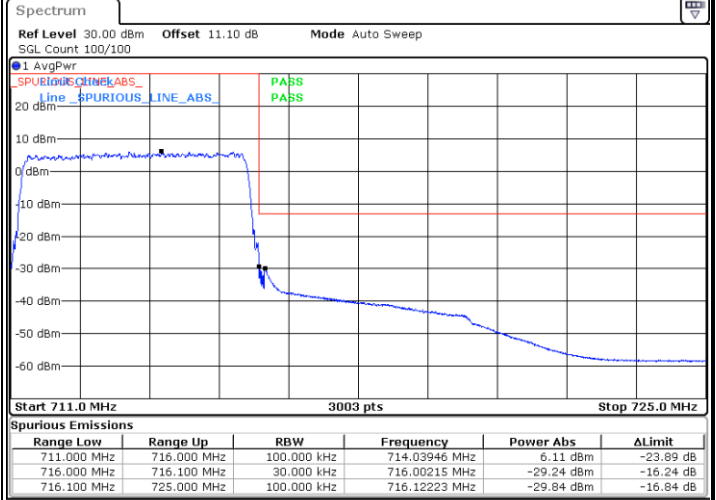
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:04:12

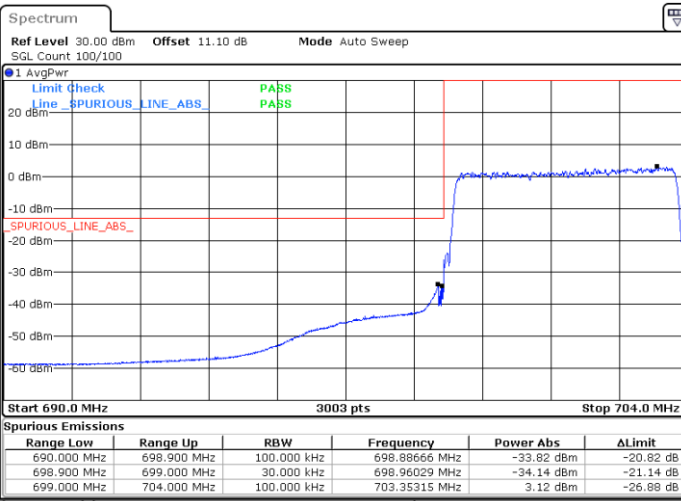
Highest Band Edge / Full RB



Date: 21.DEC.2023 20:05:49

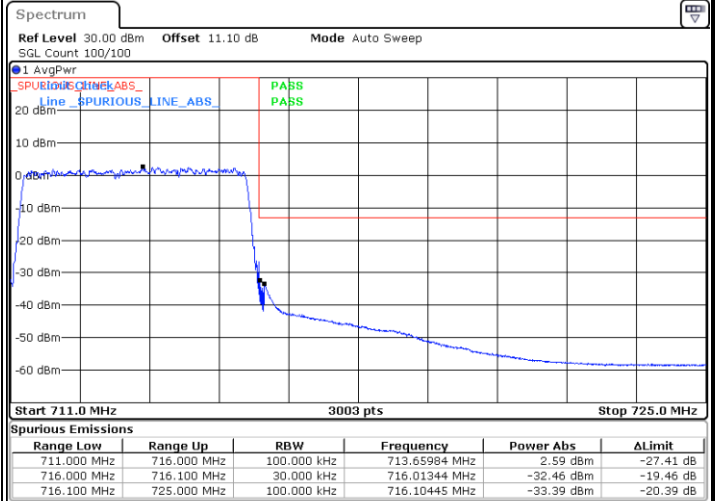
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:45:15

Highest Band Edge / Full RB



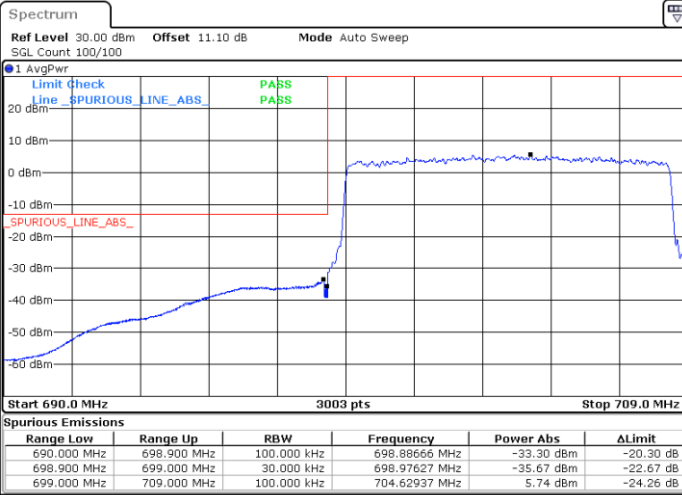
Date: 21.DEC.2023 20:54:58





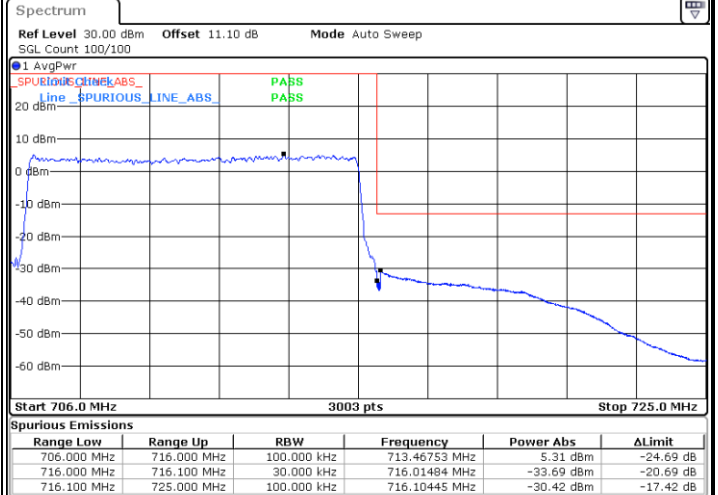
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:11:39

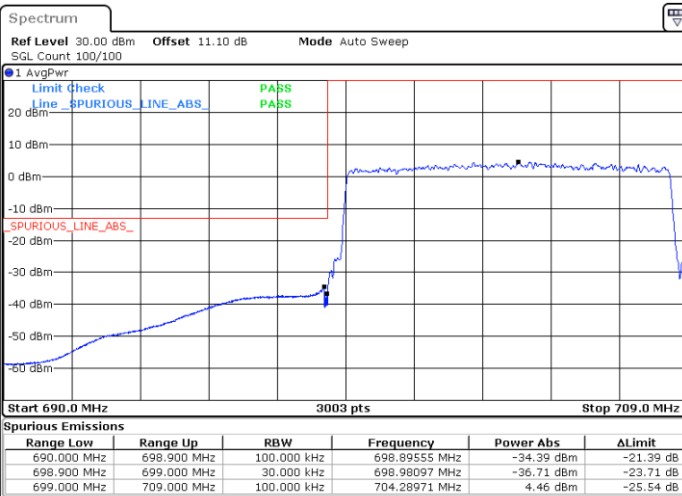
Highest Band Edge / Full RB



Date: 21.DEC.2023 20:14:53

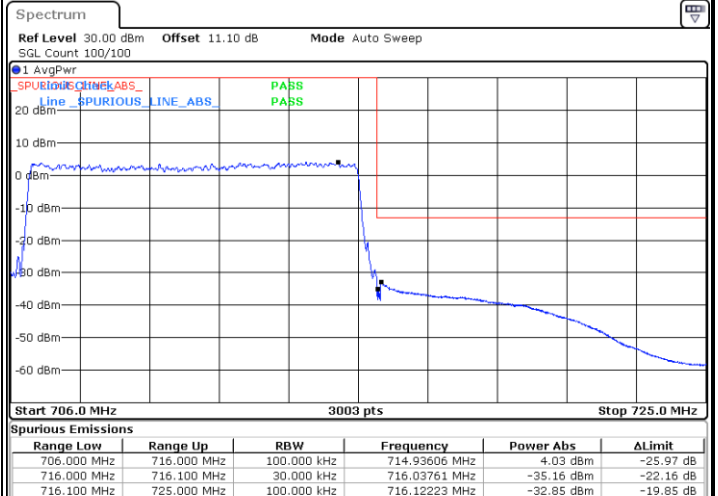
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:12:31

Highest Band Edge / Full RB

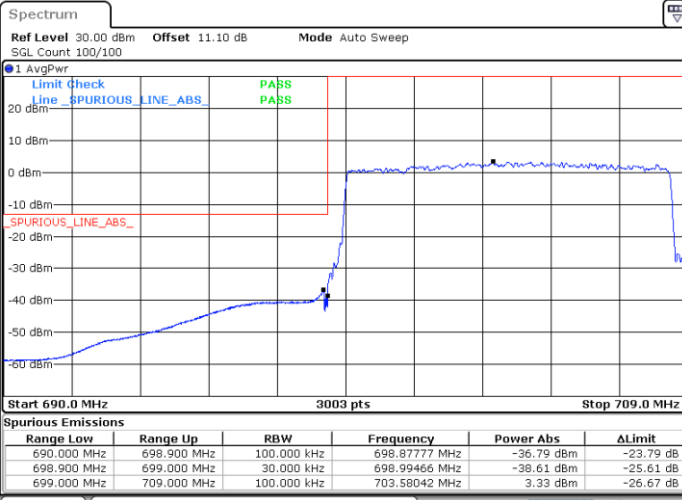


Date: 21.DEC.2023 20:15:45



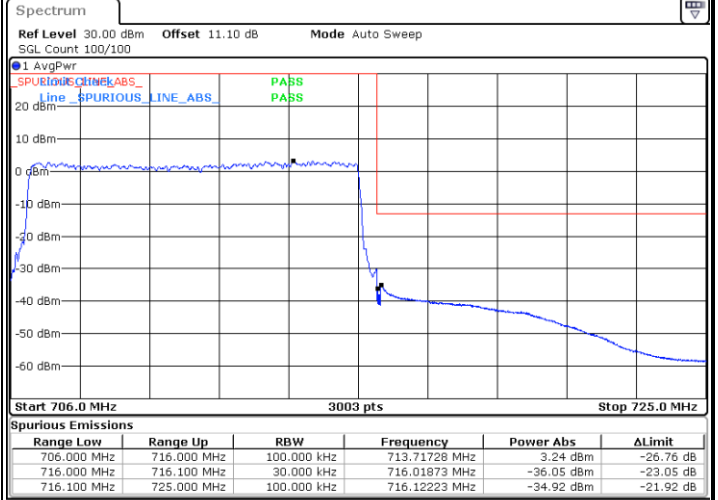
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 21.DEC.2023 20:16:37

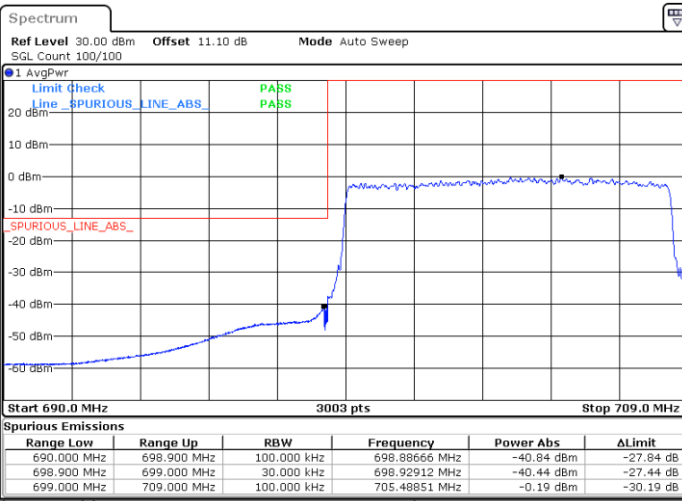
Highest Band Edge / Full RB



Date: 21.DEC.2023 20:18:13

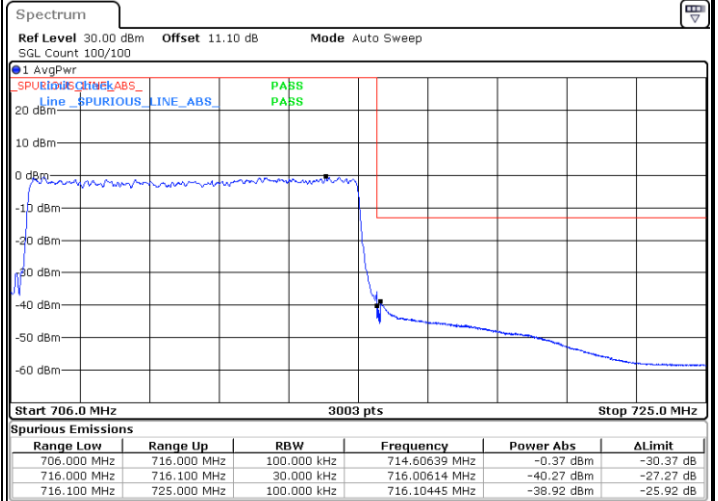
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 21.DEC.2023 21:02:28

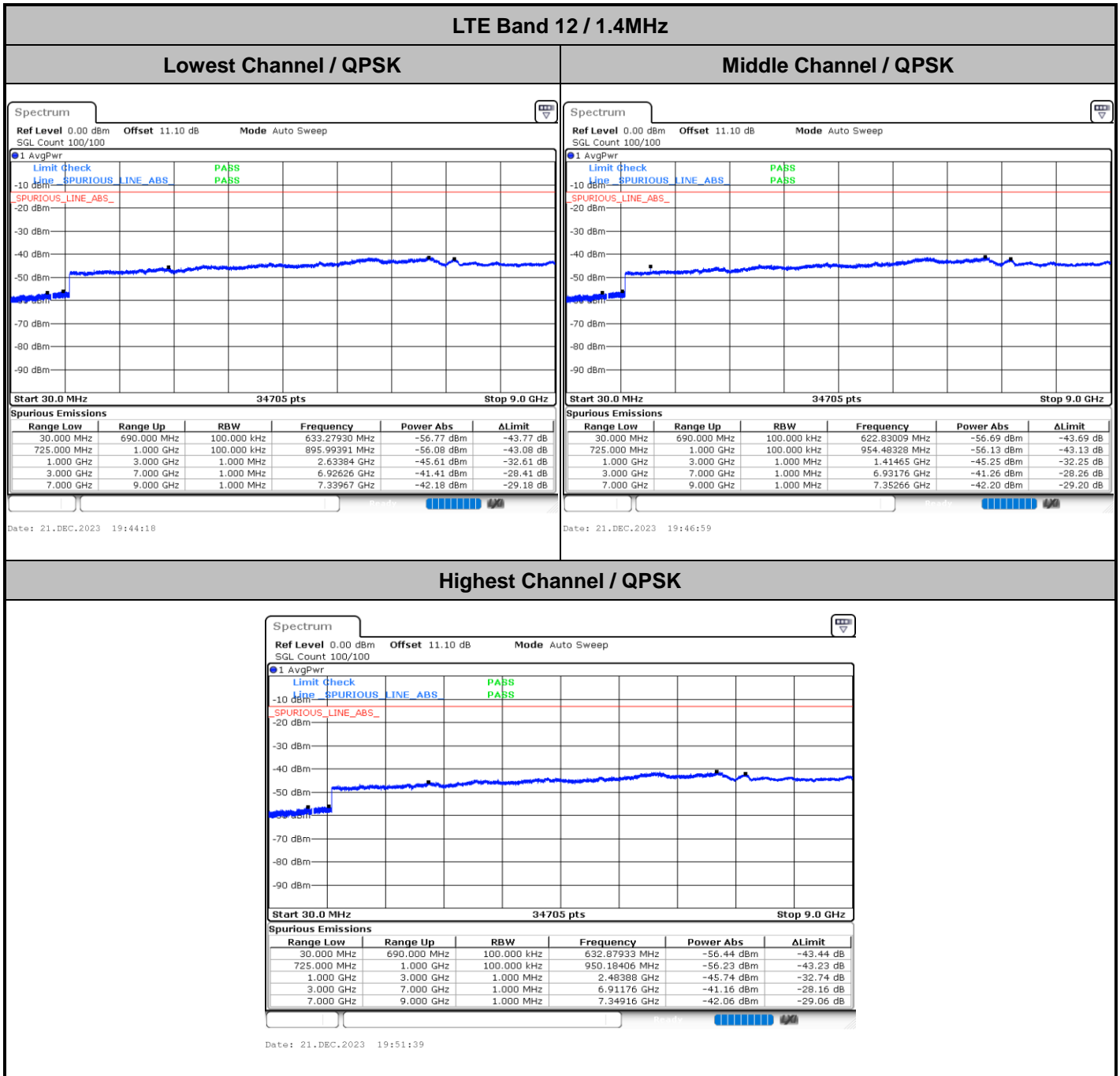
Highest Band Edge / Full RB



Date: 21.DEC.2023 21:12:15



# Conducted Spurious Emission

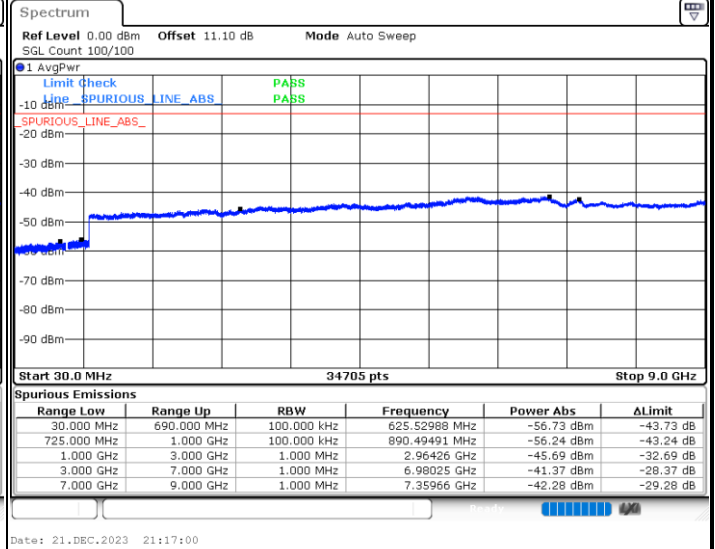
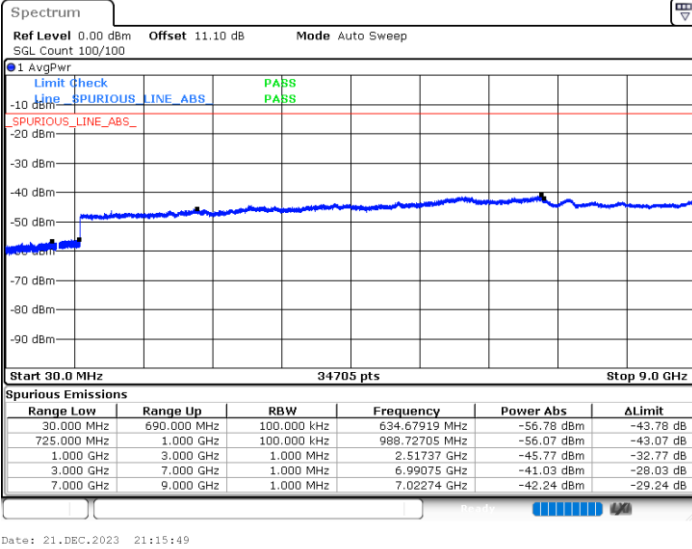




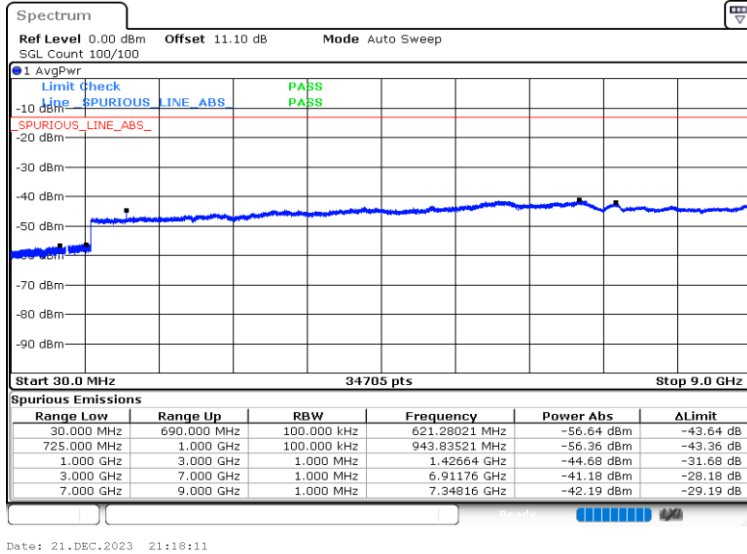
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

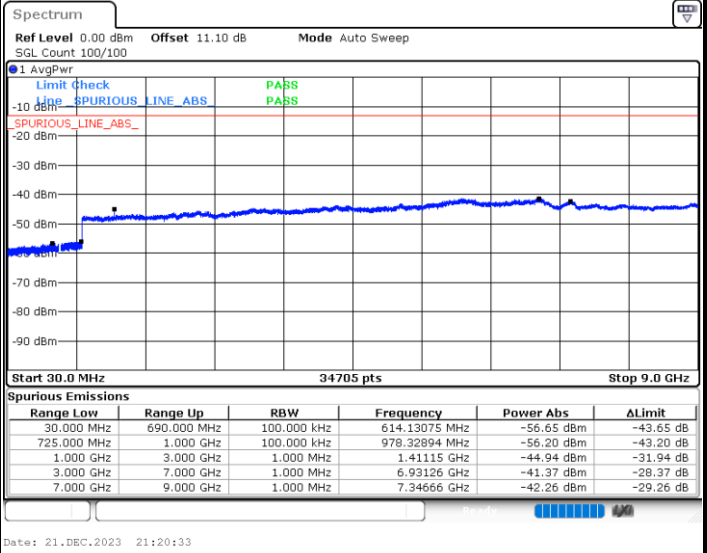
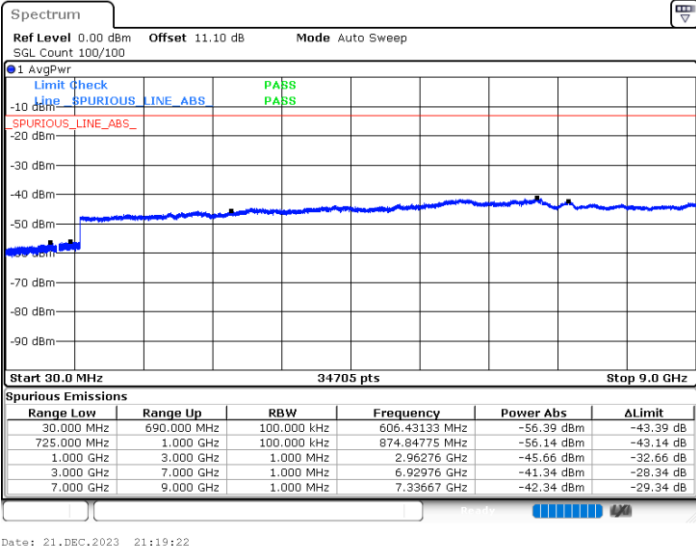




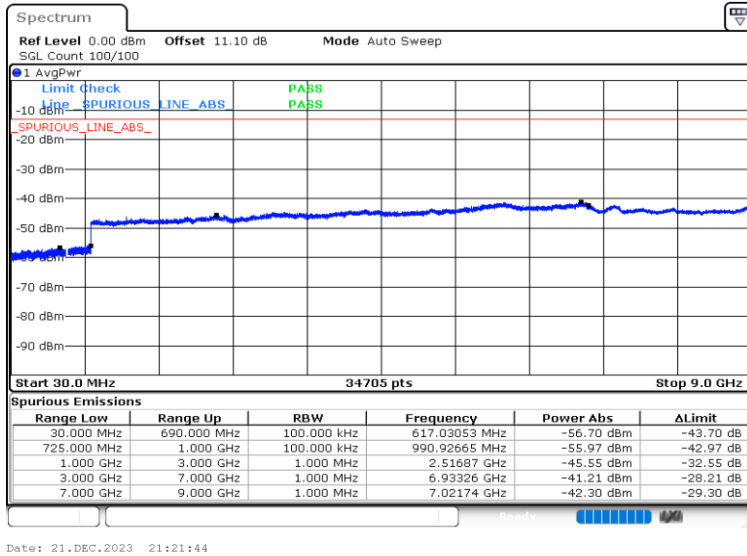
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

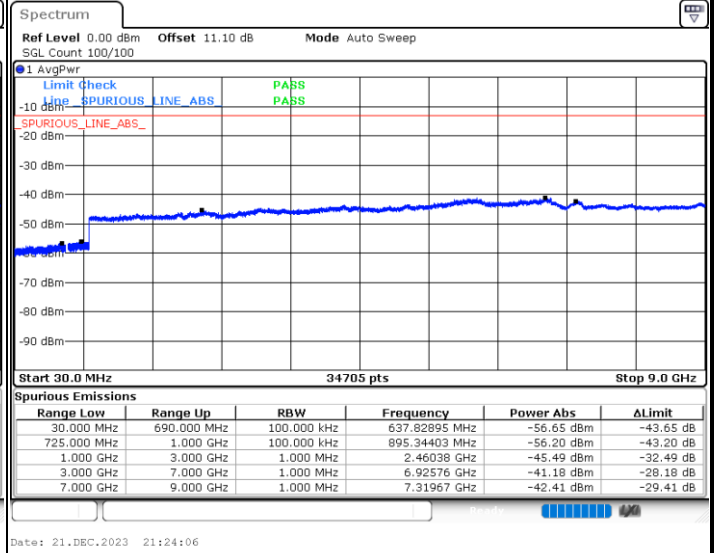
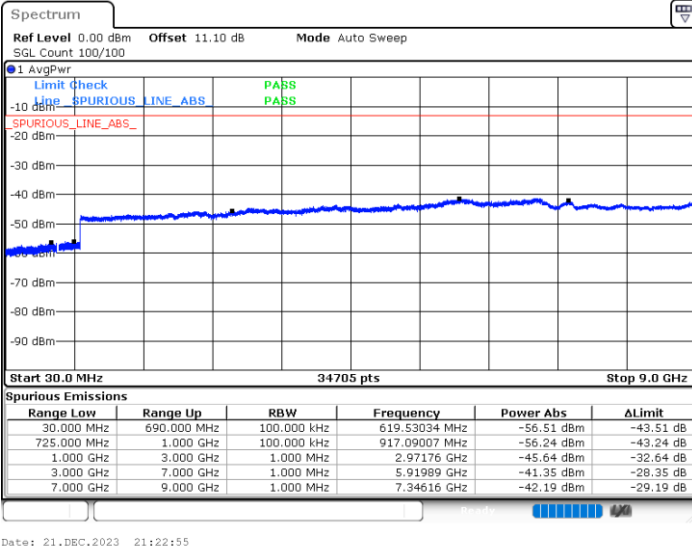




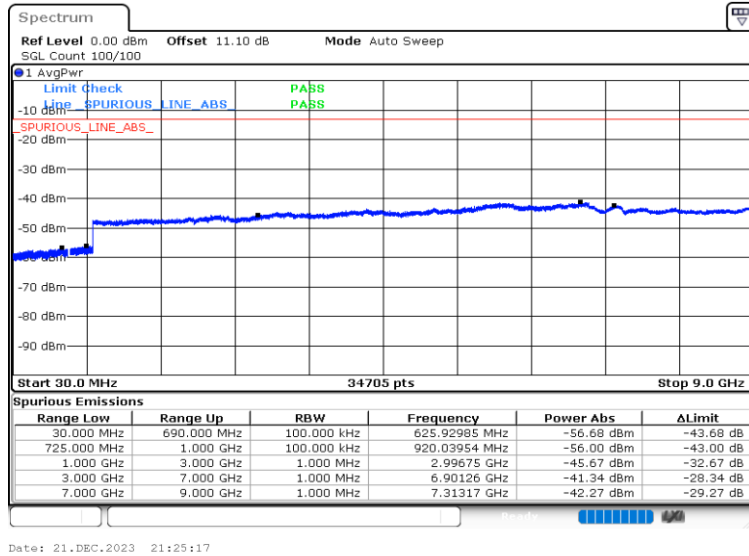
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

| Test Conditions  |                   | LTE Band 12 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0136                              | PASS    |
| 40               | Normal Voltage    | 0.0030                              |         |
| 30               | Normal Voltage    | 0.0095                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0136                              |         |
| 0                | Normal Voltage    | 0.0027                              |         |
| -10              | Normal Voltage    | 0.0041                              |         |
| -20              | Normal Voltage    | 0.0116                              |         |
| -30              | Normal Voltage    | 0.0071                              |         |
| 20               | Maximum Voltage   | 0.0095                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0082                              |         |

Note:

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



## LTE Band 26\_Part 22H

### Peak-to-Average Ratio

| Mode      | LTE Band 26 / 15MHz |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 5.01                | 5.94    | 6.32    | 6.78    | PASS        |