

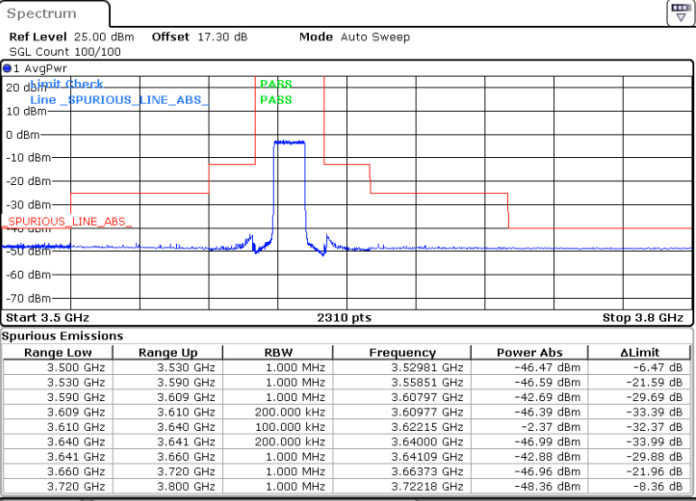
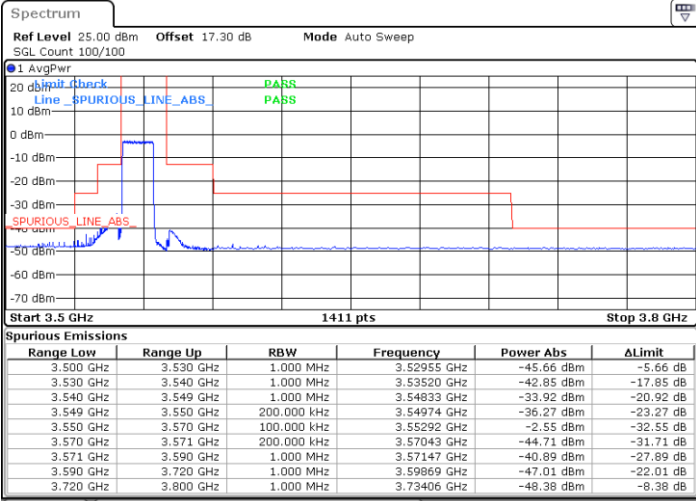


LTE Band 48 / 15MHz

256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB

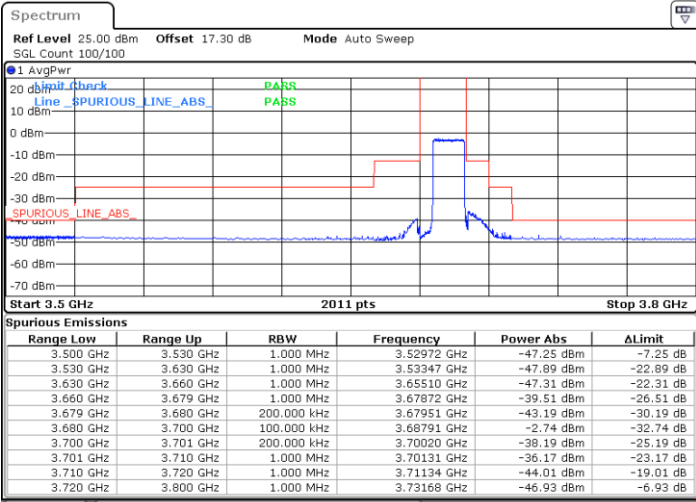


Date: 14.MAY.2024 08:46:41

Date: 14.MAY.2024 08:47:34

Highest Channel / FullIRB

N/A



Date: 14.MAY.2024 08:48:27

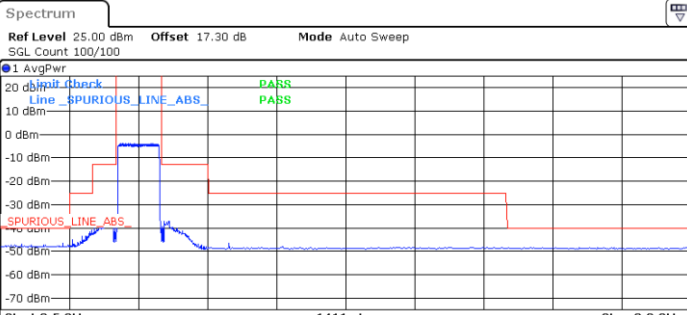


LTE Band 48 / 20MHz

256QAM

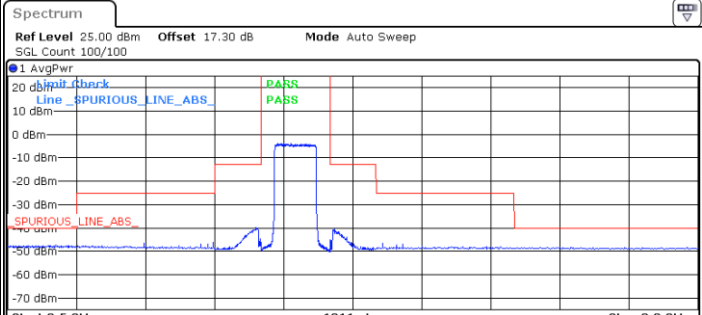
Lowest Channel / FullIRB

Middle Channel / FullIRB



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|-----------|-----------|-------------|-------------|------------|-----------|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52718 GHz | -46.59 dBm | -6.59 dB |
| 3.530 GHz | 3.540 GHz | 1.000 MHz | 3.53946 GHz | -40.94 dBm | -15.94 dB |
| 3.540 GHz | 3.549 GHz | 1.000 MHz | 3.54655 GHz | -35.93 dBm | -22.93 dB |
| 3.549 GHz | 3.550 GHz | 200.000 kHz | 3.54989 GHz | -39.45 dBm | -26.45 dB |
| 3.550 GHz | 3.570 GHz | 100.000 kHz | 3.55566 GHz | -3.70 dBm | -33.70 dB |
| 3.570 GHz | 3.571 GHz | 200.000 kHz | 3.57026 GHz | -39.37 dBm | -26.37 dB |
| 3.571 GHz | 3.590 GHz | 1.000 MHz | 3.57279 GHz | -37.21 dBm | -24.21 dB |
| 3.590 GHz | 3.720 GHz | 1.000 MHz | 3.59933 GHz | -46.55 dBm | -21.55 dB |
| 3.720 GHz | 3.800 GHz | 1.000 MHz | 3.79782 GHz | -48.40 dBm | -8.40 dB |



Spurious Emissions

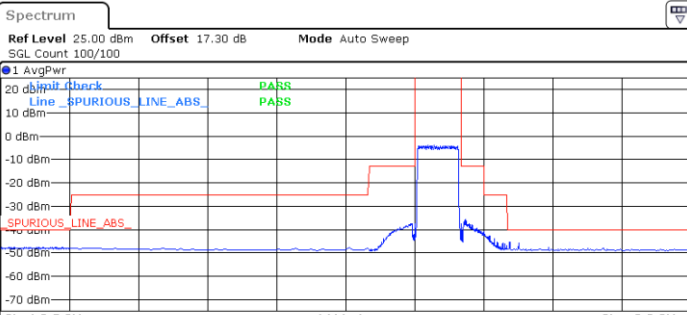
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|-----------|-----------|-------------|-------------|------------|-----------|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.52101 GHz | -47.39 dBm | -7.39 dB |
| 3.530 GHz | 3.590 GHz | 1.000 MHz | 3.58925 GHz | -46.25 dBm | -21.25 dB |
| 3.590 GHz | 3.609 GHz | 1.000 MHz | 3.60797 GHz | -39.97 dBm | -26.97 dB |
| 3.609 GHz | 3.610 GHz | 200.000 kHz | 3.60993 GHz | -44.56 dBm | -31.56 dB |
| 3.610 GHz | 3.640 GHz | 100.000 kHz | 3.61891 GHz | -3.88 dBm | -33.88 dB |
| 3.640 GHz | 3.641 GHz | 200.000 kHz | 3.64006 GHz | -45.14 dBm | -32.14 dB |
| 3.641 GHz | 3.660 GHz | 1.000 MHz | 3.64185 GHz | -40.57 dBm | -27.57 dB |
| 3.660 GHz | 3.720 GHz | 1.000 MHz | 3.66284 GHz | -46.67 dBm | -21.67 dB |
| 3.720 GHz | 3.800 GHz | 1.000 MHz | 3.73683 GHz | -48.30 dBm | -8.30 dB |

Date: 14.MAY.2024 08:50:09

Date: 14.MAY.2024 08:51:02

Highest Channel / FullIRB

N/A



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|-----------|-----------|-------------|-------------|------------|-----------|
| 3.500 GHz | 3.530 GHz | 1.000 MHz | 3.51671 GHz | -47.60 dBm | -7.60 dB |
| 3.530 GHz | 3.660 GHz | 1.000 MHz | 3.65163 GHz | -47.58 dBm | -22.58 dB |
| 3.660 GHz | 3.679 GHz | 1.000 MHz | 3.67891 GHz | -37.37 dBm | -24.37 dB |
| 3.679 GHz | 3.680 GHz | 200.000 kHz | 3.67995 GHz | -37.69 dBm | -24.69 dB |
| 3.680 GHz | 3.700 GHz | 100.000 kHz | 3.68850 GHz | -3.93 dBm | -33.93 dB |
| 3.700 GHz | 3.701 GHz | 200.000 kHz | 3.70014 GHz | -37.58 dBm | -24.58 dB |
| 3.701 GHz | 3.710 GHz | 1.000 MHz | 3.70185 GHz | -35.78 dBm | -22.78 dB |
| 3.710 GHz | 3.720 GHz | 1.000 MHz | 3.71005 GHz | -41.99 dBm | -16.99 dB |
| 3.720 GHz | 3.800 GHz | 1.000 MHz | 3.72139 GHz | -45.34 dBm | -5.34 dB |

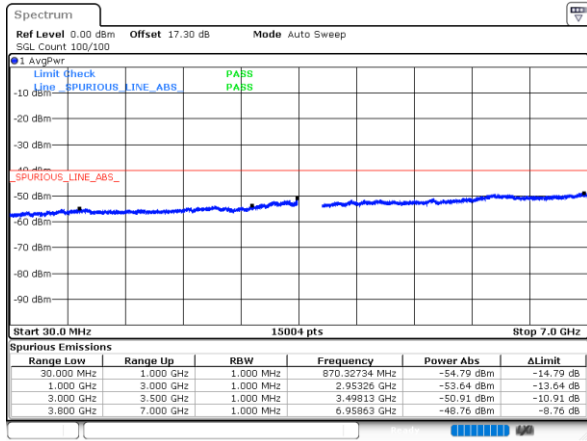
Date: 14.MAY.2024 08:51:55



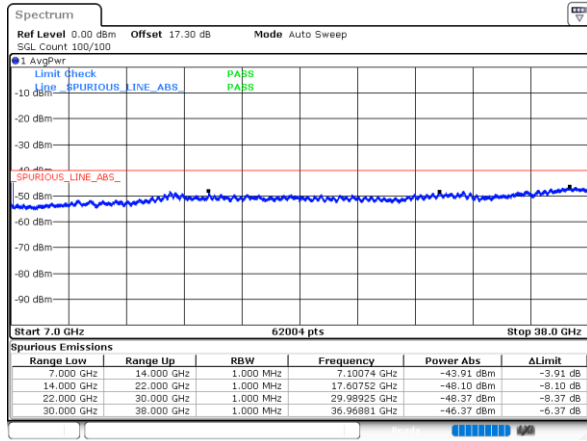
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

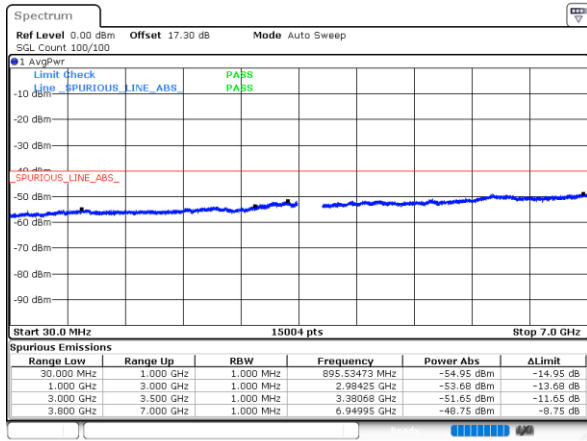


Date: 14.MAY.2024 08:17:14

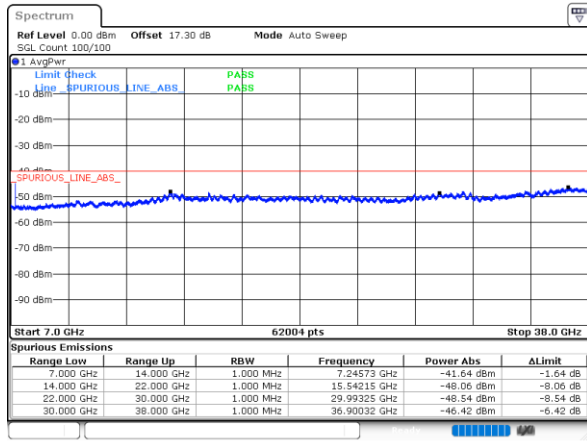


Date: 14.MAY.2024 08:15:51

Middle Channel / QPSK

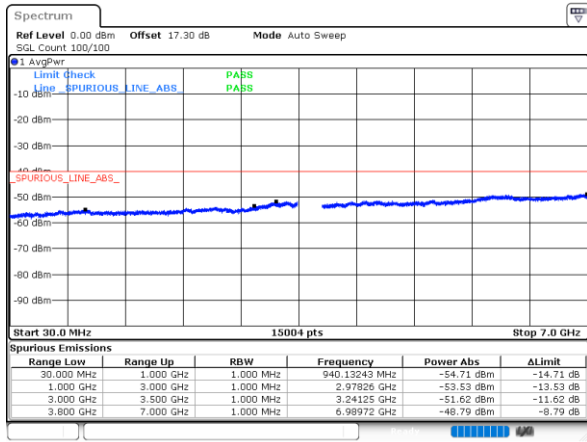


Date: 14.MAY.2024 08:18:27

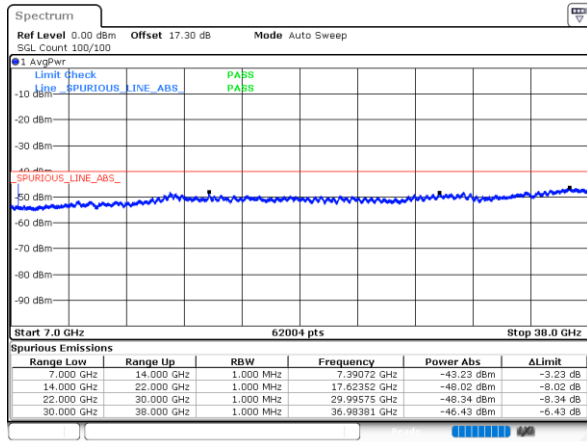


Date: 14.MAY.2024 08:15:04

Highest Channel / QPSK



Date: 14.MAY.2024 08:19:40

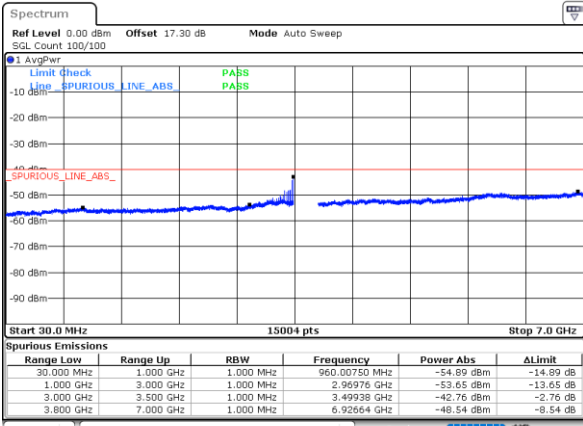


Date: 14.MAY.2024 08:15:17

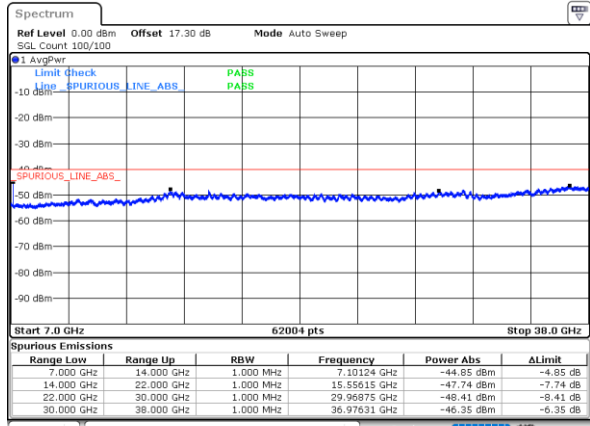


LTE Band 48 / 10MHz

Lowest Channel / QPSK

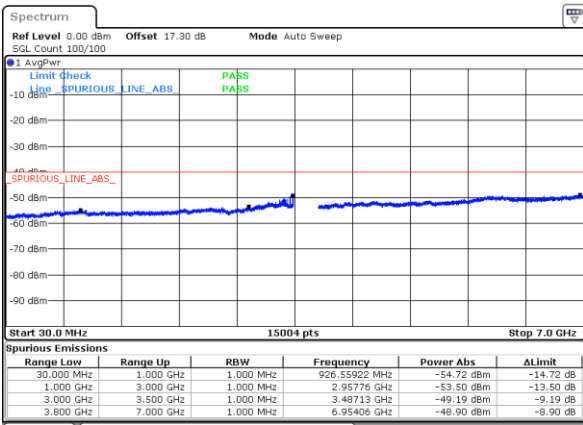


Date: 14.MAY.2024 08:21:36

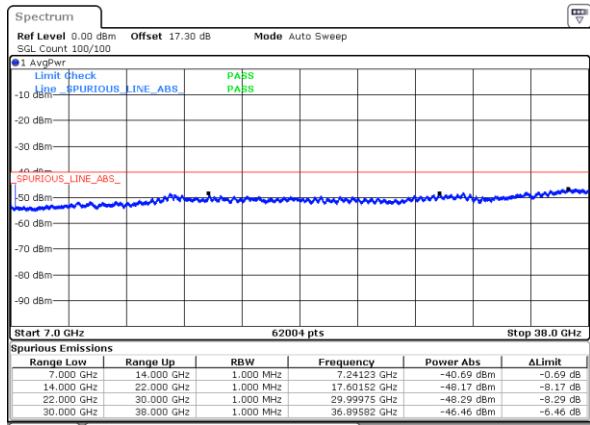


Date: 14.MAY.2024 08:58:14

Middle Channel / QPSK

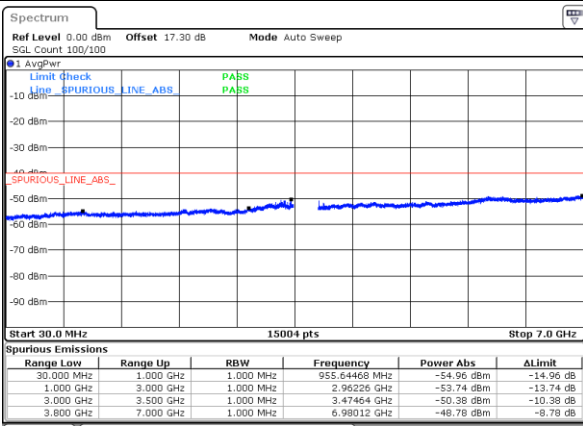


Date: 14.MAY.2024 08:22:48

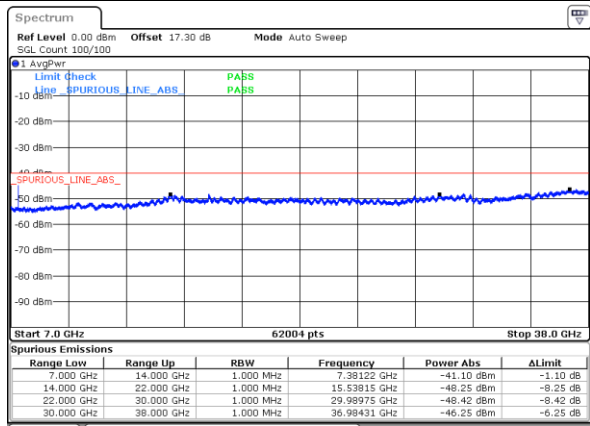


Date: 14.MAY.2024 08:59:26

Highest Channel / QPSK



Date: 14.MAY.2024 08:24:01

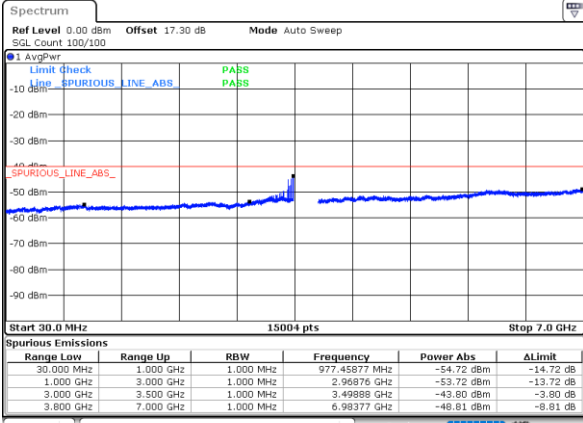


Date: 14.MAY.2024 09:00:39

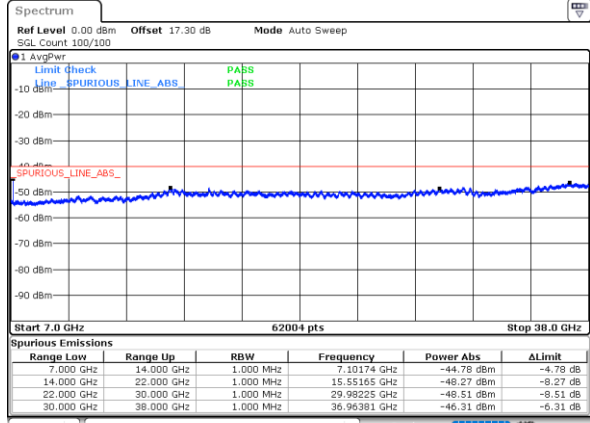


LTE Band 48 / 15MHz

Lowest Channel / QPSK

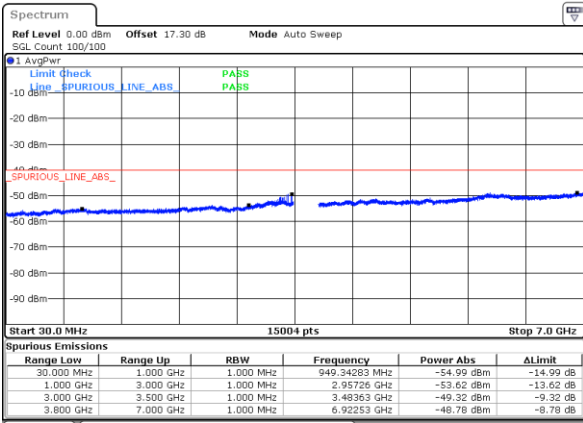


Date: 14.MAY.2024 09:25:57

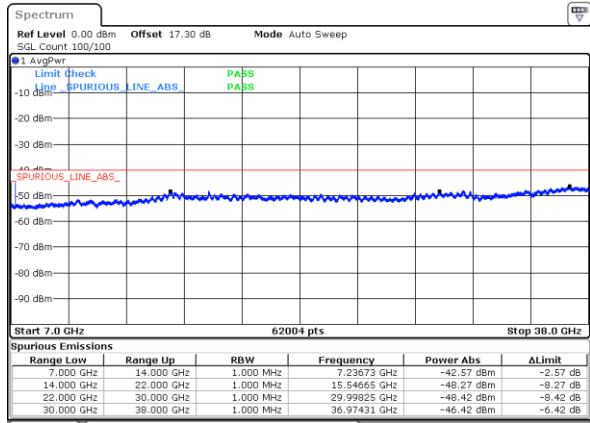


Date: 14.MAY.2024 09:02:36

Middle Channel / QPSK

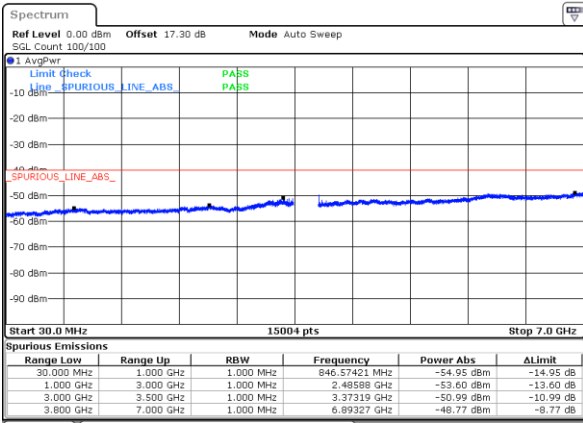


Date: 14.MAY.2024 09:27:10

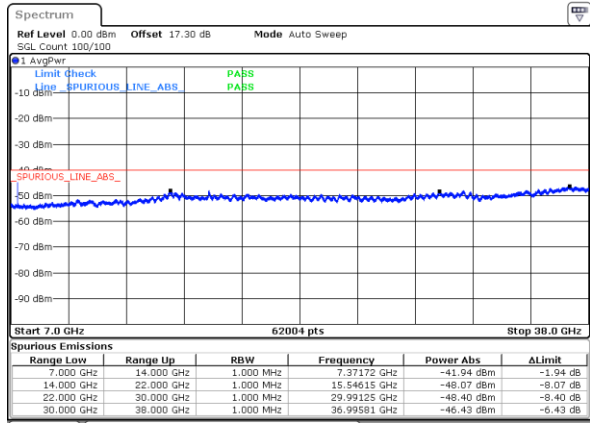


Date: 14.MAY.2024 09:03:48

Highest Channel / QPSK



Date: 14.MAY.2024 09:28:22

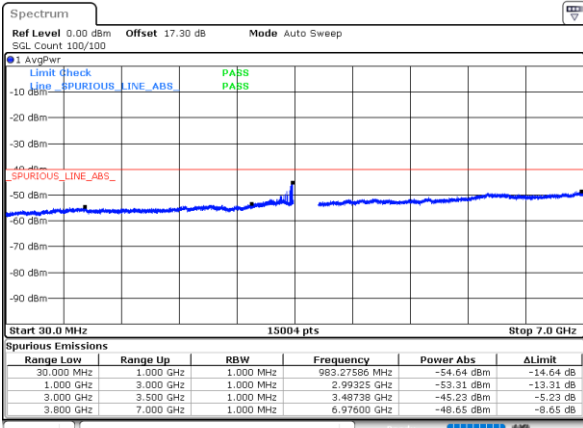


Date: 14.MAY.2024 09:05:01

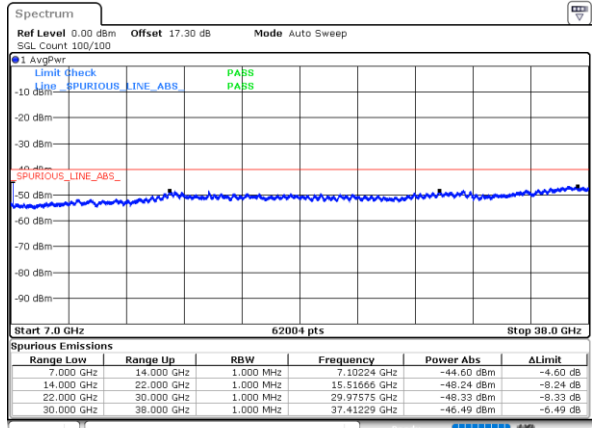


LTE Band 48 / 20MHz

Lowest Channel / QPSK

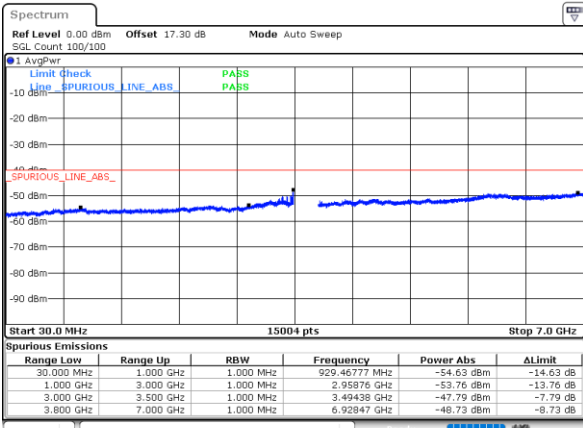


Date: 14.MAY.2024 09:30:18

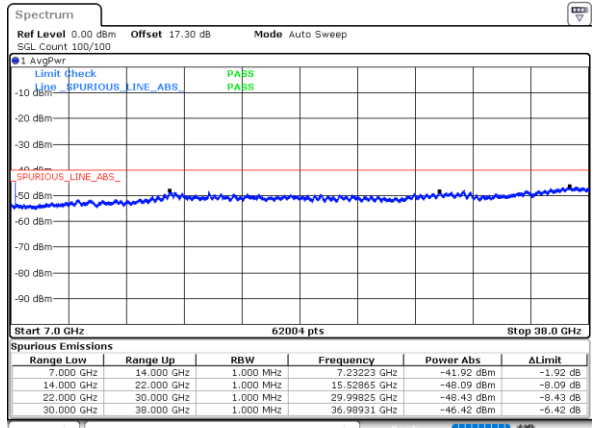


Date: 14.MAY.2024 09:47:15

Middle Channel / QPSK

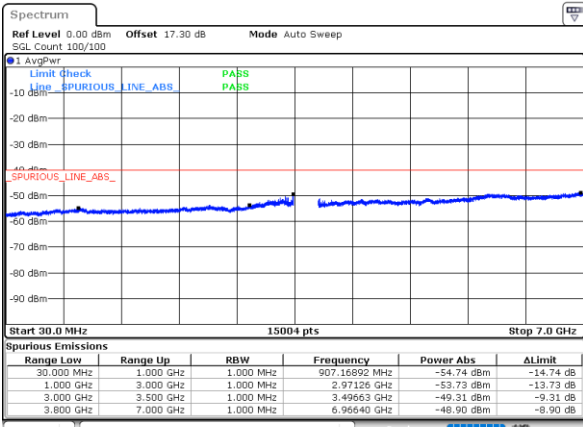


Date: 14.MAY.2024 09:31:31

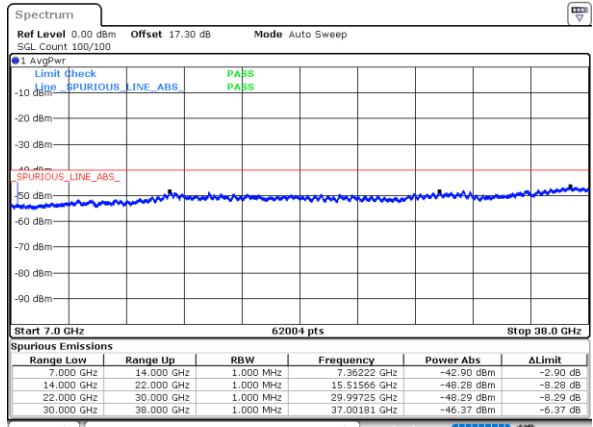


Date: 14.MAY.2024 09:48:28

Highest Channel / QPSK



Date: 14.MAY.2024 09:32:44



Date: 14.MAY.2024 09:49:41



Frequency Stability

| Test Conditions | | LTE Band 48 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0003 | PASS |
| 40 | Normal Voltage | 0.0014 | |
| 30 | Normal Voltage | 0.0016 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0006 | |
| 0 | Normal Voltage | 0.0016 | |
| -10 | Normal Voltage | 0.0020 | |
| -20 | Normal Voltage | 0.0006 | |
| -30 | Normal Voltage | 0.0010 | |
| 20 | Maximum Voltage | 0.0012 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0009 | |

Note:

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



LTE Band 48C

26dB Bandwidth

| Mode | LTE Band 48C : 26dB BW(MHz) | | | |
|-----------|-----------------------------|-------------|-------------|------------|
| QPSK | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 24.92 | 29.91 | 34.82 | 25.12 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 29.96 | 34.89 | 39.88 | - |

| Mode | LTE Band 48C : 26dB BW(MHz) | | | |
|-----------|-----------------------------|-------------|-------------|------------|
| 16QAM | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 24.77 | 29.85 | 34.82 | 25.17 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 30.08 | 35.10 | 39.79 | - |

| Mode | LTE Band 48C : 26dB BW(MHz) | | | |
|-----------|-----------------------------|-------------|-------------|------------|
| 64QAM | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 24.72 | 29.73 | 34.68 | 25.12 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 30.14 | 34.82 | 39.88 | - |

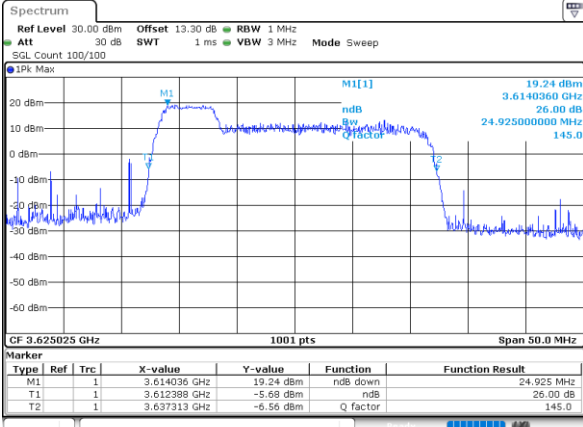
| Mode | LTE Band 48C : 26dB BW(MHz) | | | |
|-----------|-----------------------------|-------------|-------------|------------|
| 256QAM | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 24.77 | 29.78 | 34.82 | 25.22 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 30.08 | 34.96 | 39.64 | - |



LTE Band 48C

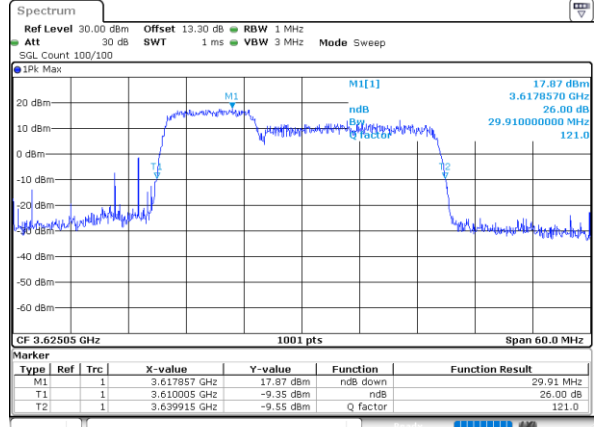
QPSK

Middle Channel / 5MHz+20MHz



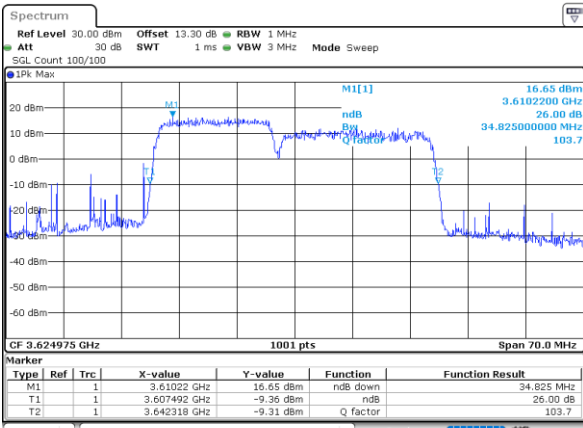
Date: 24.APR.2024 23:31:59

Middle Channel / 10MHz+20MHz



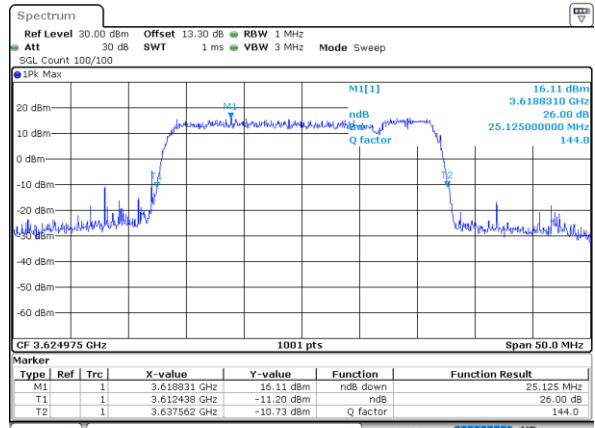
Date: 24.APR.2024 23:39:04

Middle Channel / 15MHz+20MHz



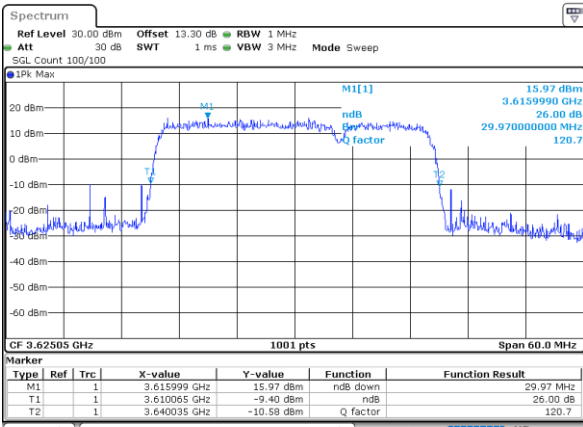
Date: 25.APR.2024 00:31:36

Middle Channel / 20MHz+5MHz



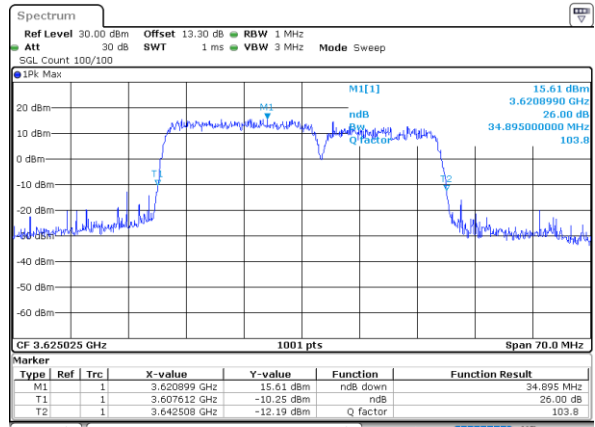
Date: 24.APR.2024 23:35:29

Middle Channel / 20MHz+10MHz



Date: 24.APR.2024 23:42:33

Middle Channel / 20MHz+15MHz



Date: 25.APR.2024 00:35:05

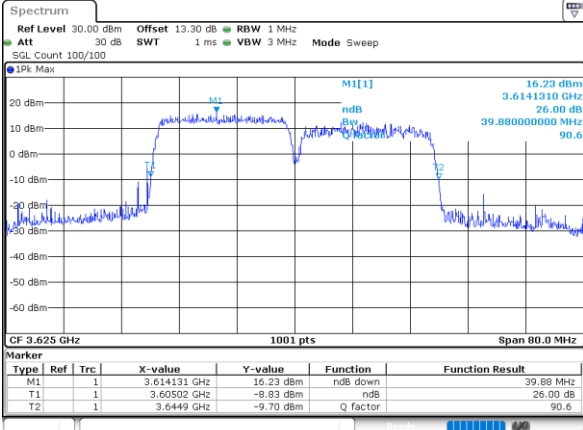


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



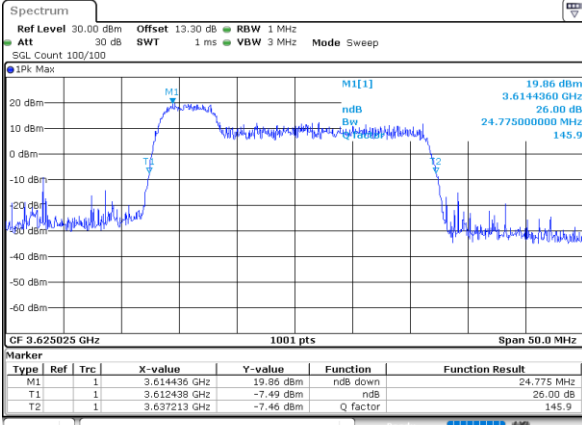
Date: 25, APR, 2024 00:38:58



LTE Band 48C

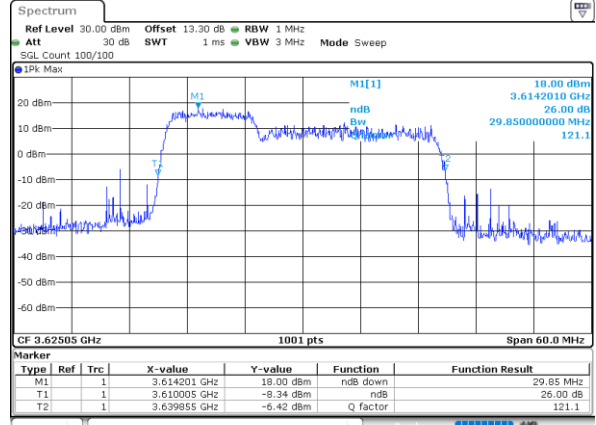
16QAM

Middle Channel / 5MHz+20MHz



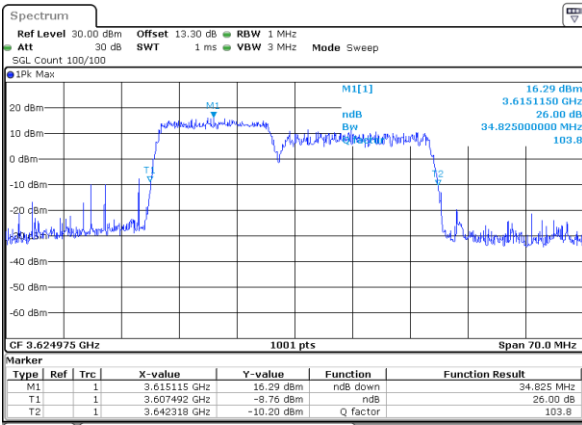
Date: 24, APR, 2024 23:31:14

Middle Channel / 10MHz+20MHz



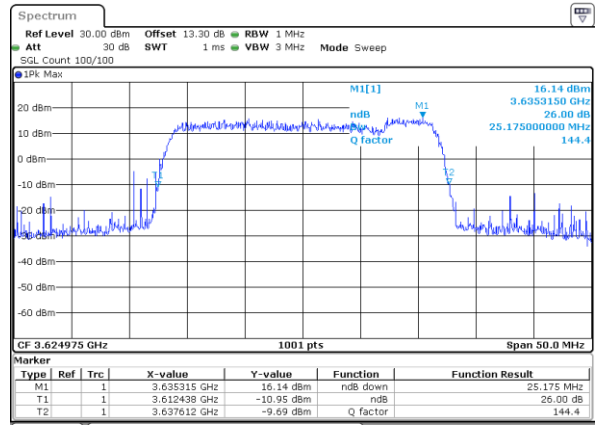
Date: 24, APR, 2024 23:38:39

Middle Channel / 15MHz+20MHz



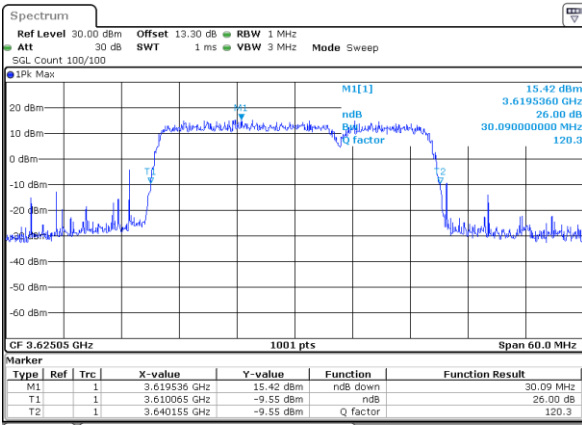
Date: 25, APR, 2024 00:31:10

Middle Channel / 20MHz+5MHz



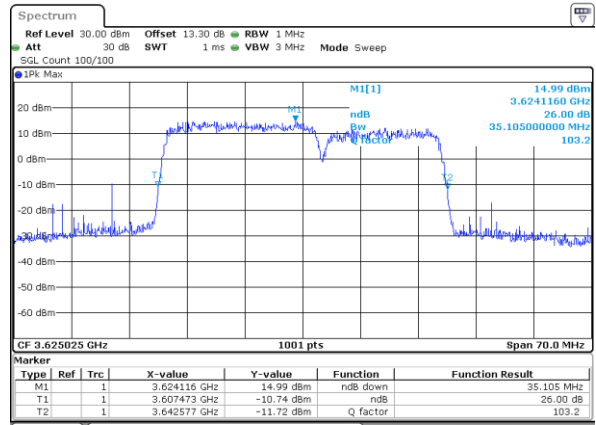
Date: 24, APR, 2024 23:35:04

Middle Channel / 20MHz+10MHz



Date: 24, APR, 2024 23:42:09

Middle Channel / 20MHz+15MHz



Date: 25, APR, 2024 00:34:40

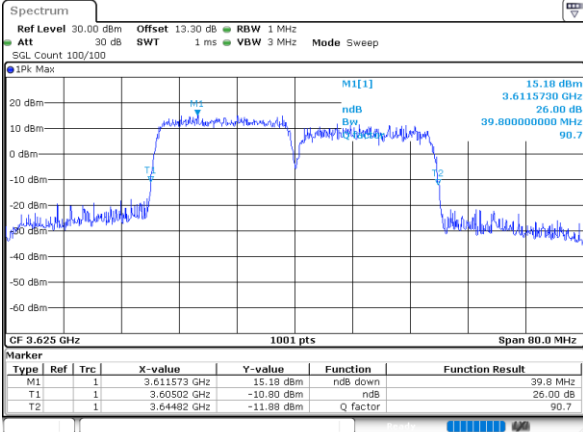


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

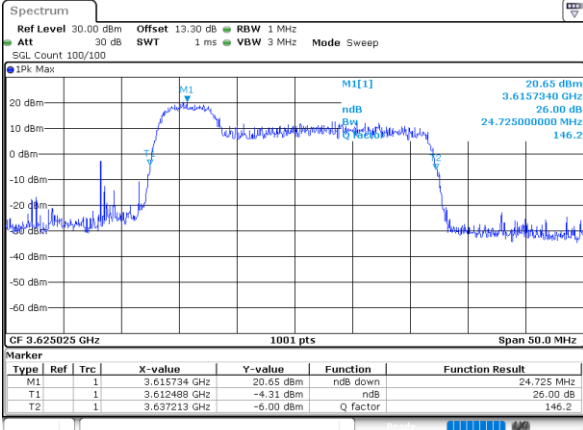




LTE Band 48C

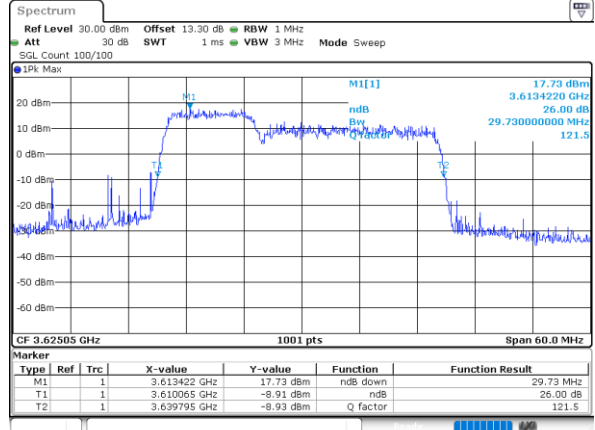
64QAM

Middle Channel / 5MHz+20MHz



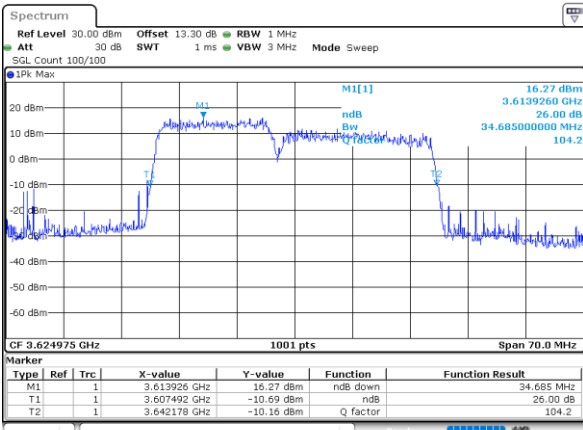
Date: 24, APR, 2024 23:31:09

Middle Channel / 10MHz+20MHz



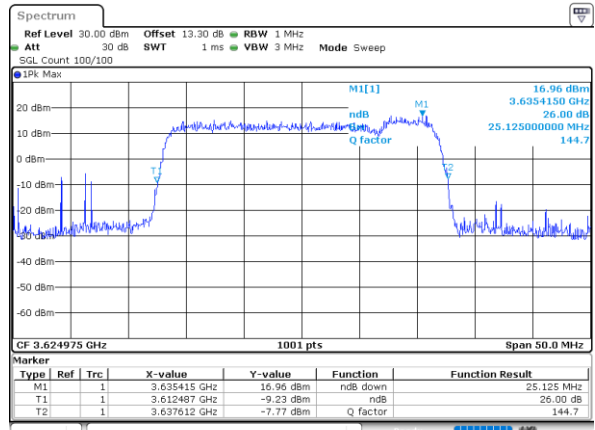
Date: 24, APR, 2024 23:38:13

Middle Channel / 15MHz+20MHz



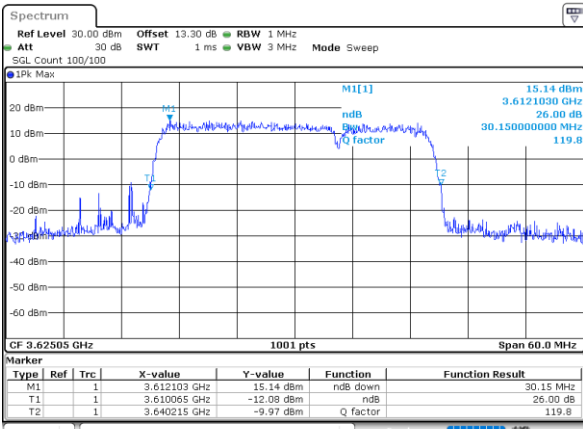
Date: 25, APR, 2024 00:30:45

Middle Channel / 20MHz+5MHz



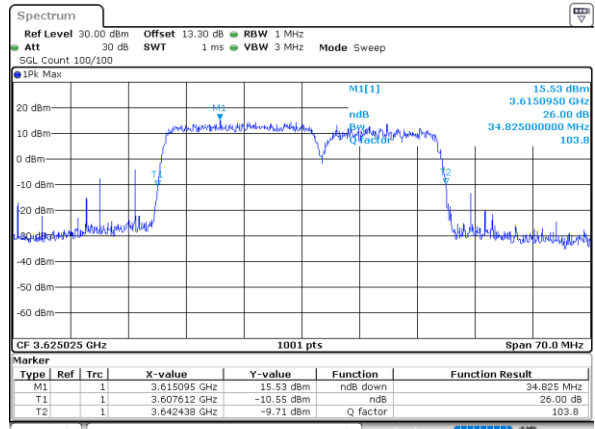
Date: 24, APR, 2024 23:34:38

Middle Channel / 20MHz+10MHz



Date: 24, APR, 2024 23:41:43

Middle Channel / 20MHz+15MHz



Date: 25, APR, 2024 00:34:15

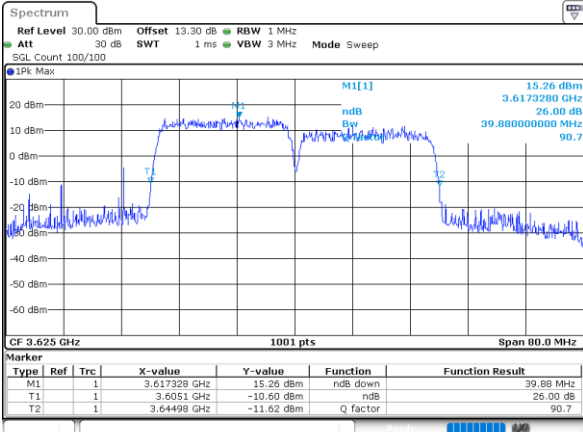


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A



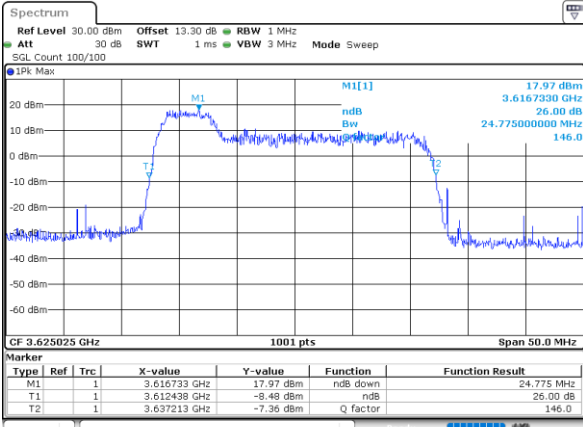
Date: 25, APR, 2024 00:37:42



LTE Band 48C

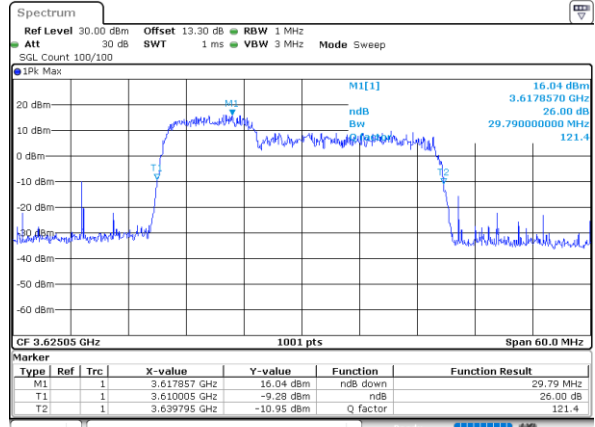
256QAM

Middle Channel / 5MHz+20MHz



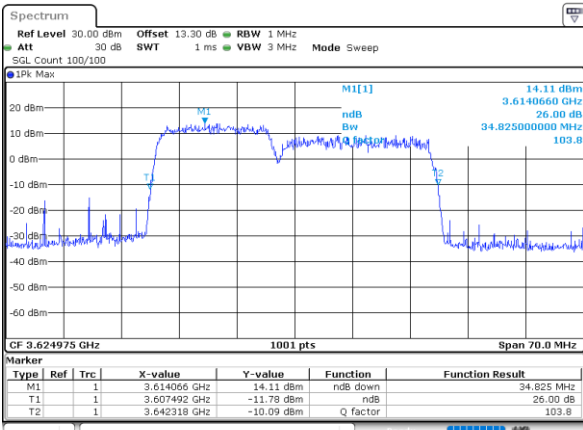
Date: 24, APR, 2024 23:32:24

Middle Channel / 10MHz+20MHz



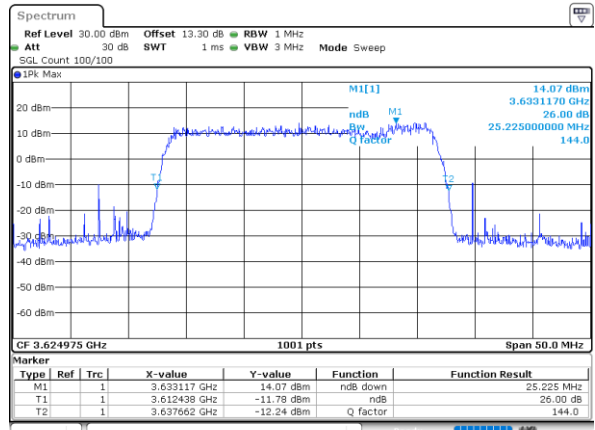
Date: 24, APR, 2024 23:39:29

Middle Channel / 15MHz+20MHz



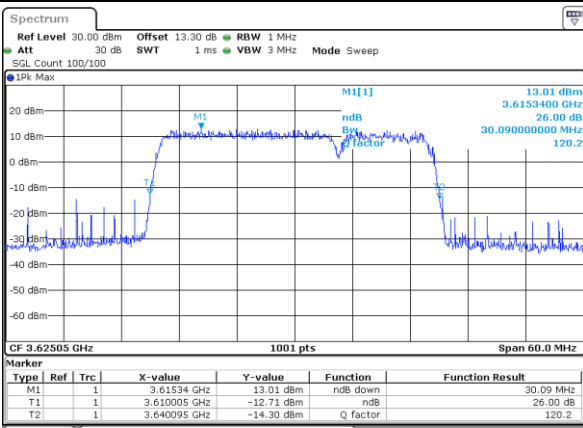
Date: 25, APR, 2024 00:32:01

Middle Channel / 20MHz+5MHz



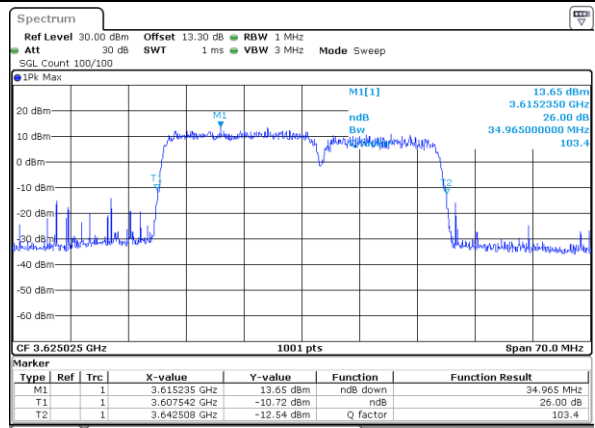
Date: 24, APR, 2024 23:35:54

Middle Channel / 20MHz+10MHz



Date: 24, APR, 2024 23:42:59

Middle Channel / 20MHz+15MHz



Date: 25, APR, 2024 00:35:31

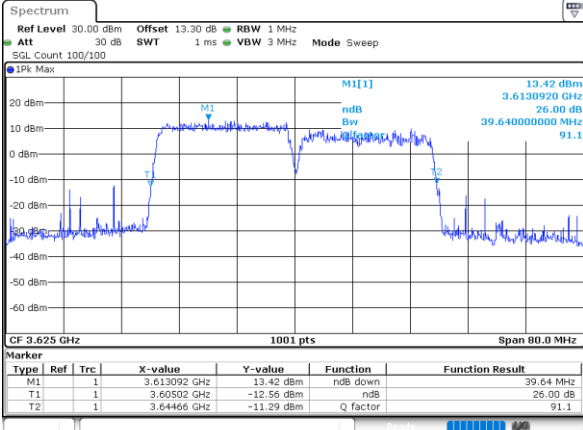


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A





Occupied Bandwidth

| Mode | LTE Band 48C : 99%OBW(MHz) | | | |
|-----------|----------------------------|-------------|-------------|------------|
| QPSK | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 23.12 | 27.81 | 32.72 | 23.22 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 27.87 | 32.72 | 37.32 | - |

| Mode | LTE Band 48C : 99%OBW(MHz) | | | |
|-----------|----------------------------|-------------|-------------|------------|
| 16QAM | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 23.17 | 27.87 | 32.58 | 23.17 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 27.87 | 32.72 | 37.48 | - |

| Mode | LTE Band 48C : 99%OBW(MHz) | | | |
|-----------|----------------------------|-------------|-------------|------------|
| 64QAM | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 23.07 | 27.81 | 32.72 | 23.17 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 27.87 | 32.65 | 37.40 | - |

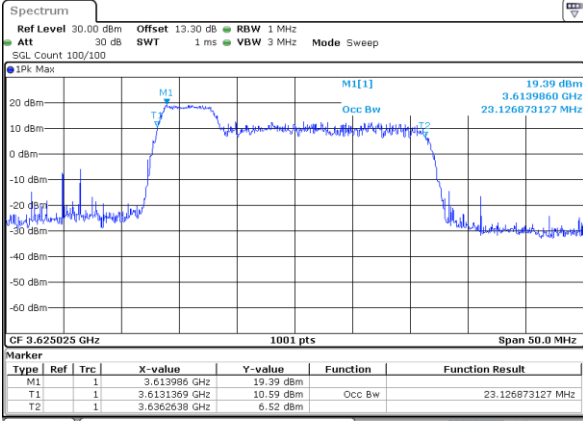
| Mode | LTE Band 48C : 99%OBW(MHz) | | | |
|-----------|----------------------------|-------------|-------------|------------|
| 256QAM | | | | |
| BW | 5MHz+20MHz | 10MHz+20MHz | 15MHz+20MHz | 20MHz+5MHz |
| Middle CH | 23.12 | 27.87 | 32.65 | 23.22 |
| BW | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz | N/A |
| Middle CH | 27.93 | 32.65 | 37.64 | - |



LTE Band 48C

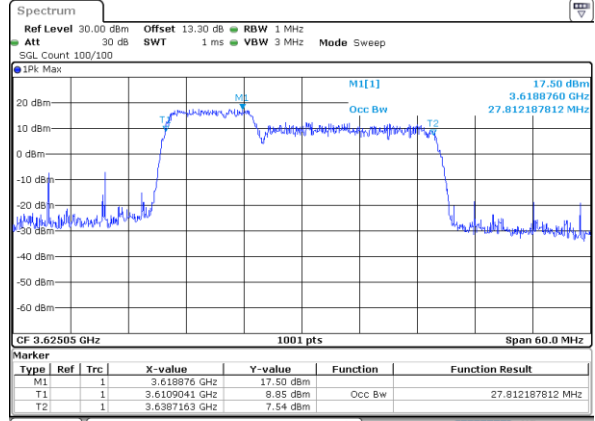
QPSK

Middle Channel / 5MHz+20MHz



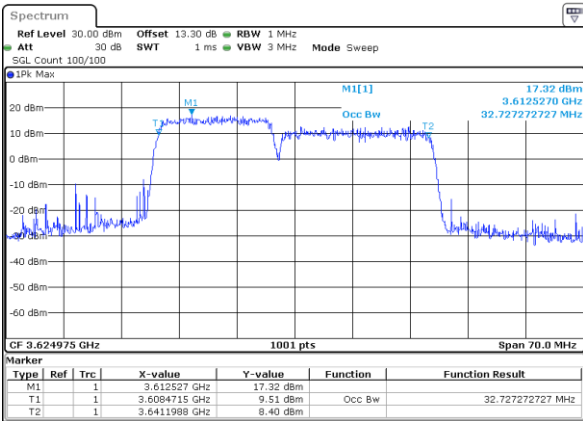
Date: 24.APR.2024 23:29:27

Middle Channel / 10MHz+20MHz



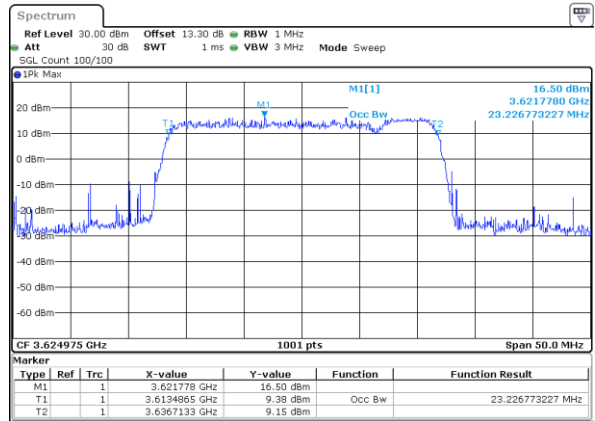
Date: 24.APR.2024 23:36:31

Middle Channel / 15MHz+20MHz



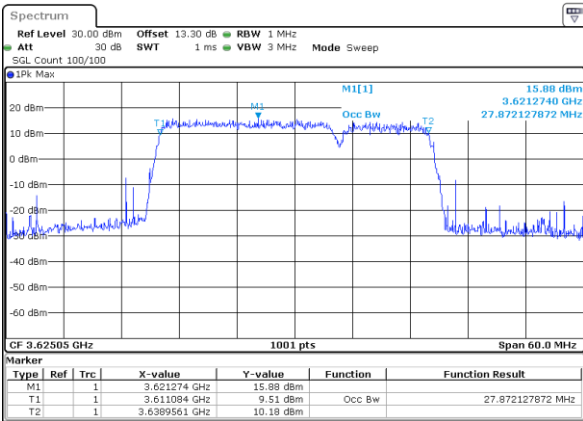
Date: 25.APR.2024 00:29:03

Middle Channel / 20MHz+5MHz



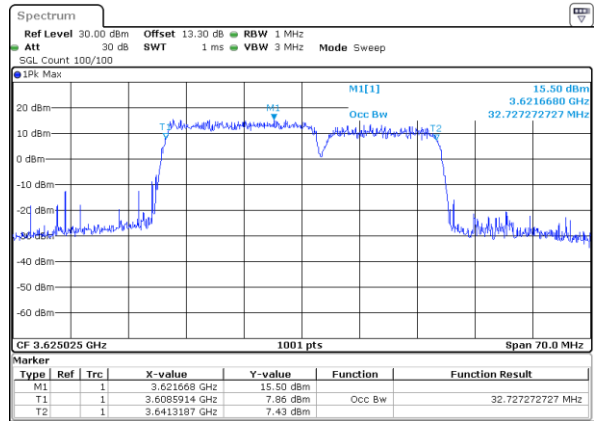
Date: 24.APR.2024 23:32:57

Middle Channel / 20MHz+10MHz



Date: 24.APR.2024 23:40:01

Middle Channel / 20MHz+15MHz



Date: 25.APR.2024 00:32:33

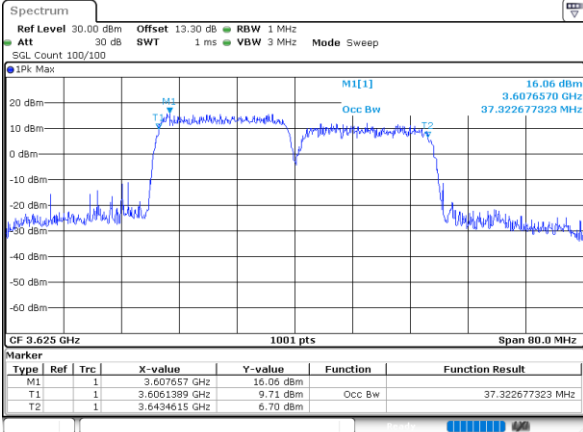


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



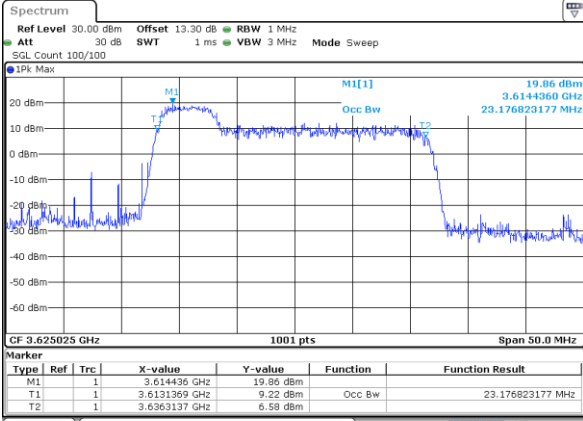
Date: 25, APR, 2024 00:36:01



LTE Band 48C

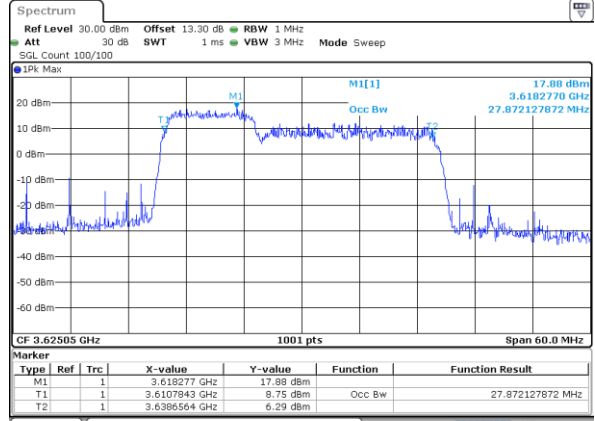
16QAM

Middle Channel / 5MHz+20MHz



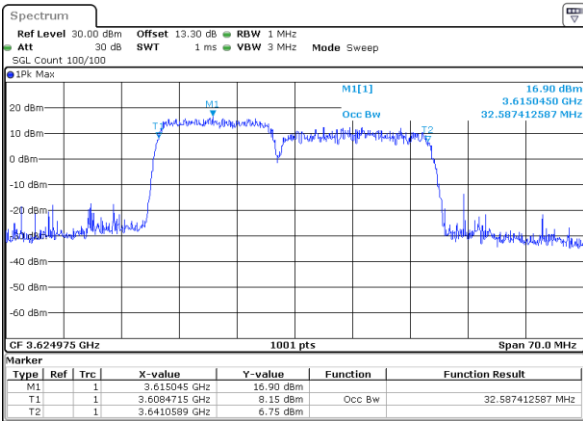
Date: 24.APR.2024 23:29:52

Middle Channel / 10MHz+20MHz



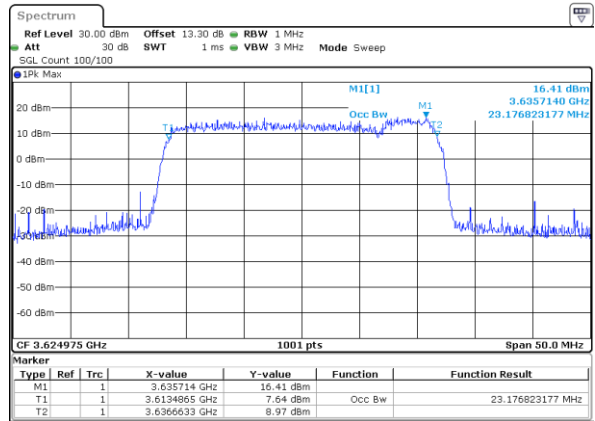
Date: 24.APR.2024 23:36:57

Middle Channel / 15MHz+20MHz



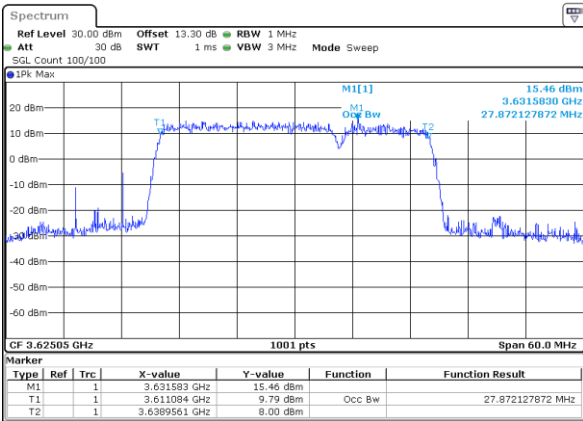
Date: 25.APR.2024 00:29:29

Middle Channel / 20MHz+5MHz



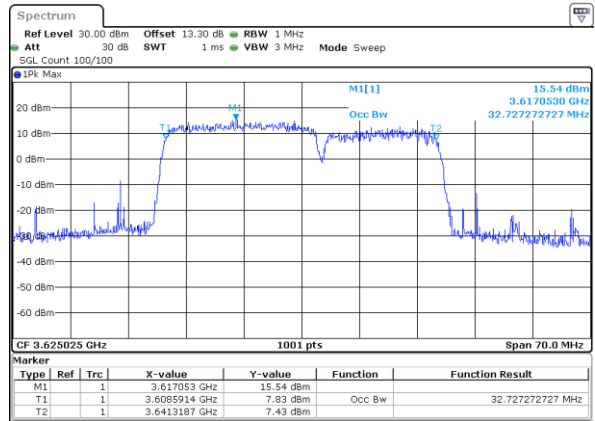
Date: 24.APR.2024 23:33:22

Middle Channel / 20MHz+10MHz



Date: 24.APR.2024 23:40:26

Middle Channel / 20MHz+15MHz



Date: 25.APR.2024 00:32:58

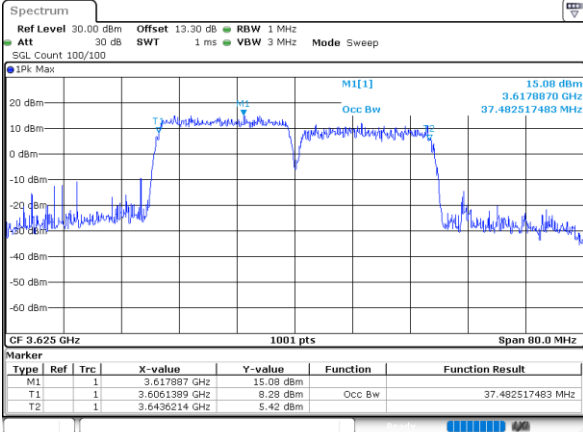


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



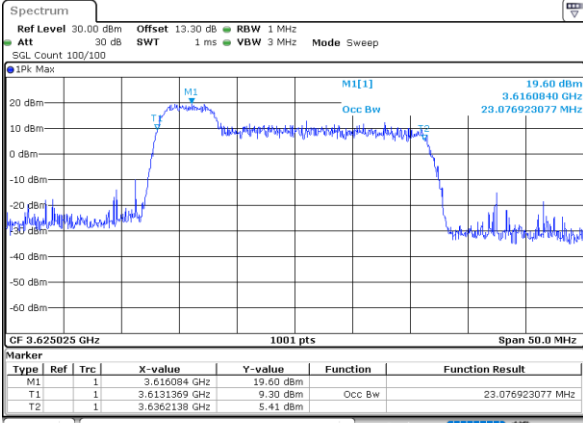
Date: 25, APR, 2024 00:36:26



LTE Band 48C

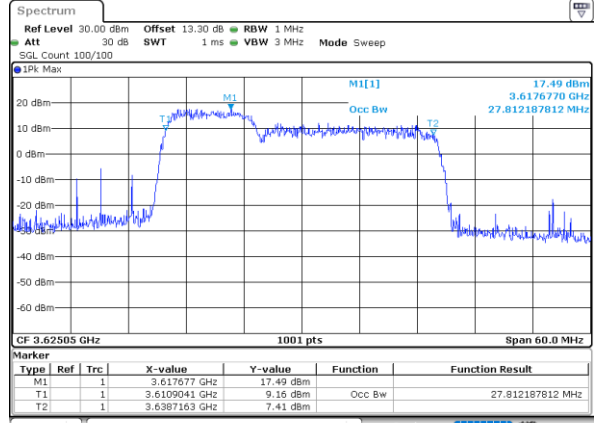
64QAM

Middle Channel / 5MHz+20MHz



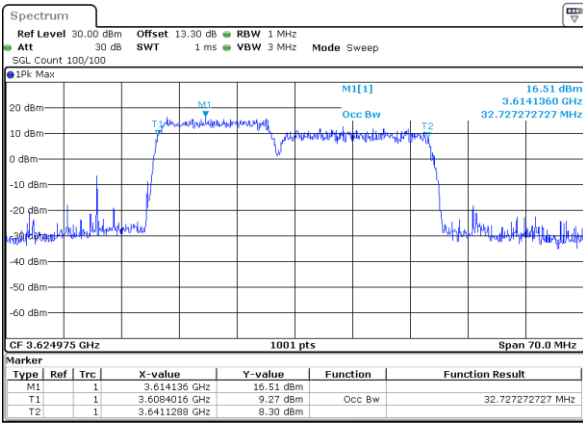
Date: 24.APR.2024 23:30:17

Middle Channel / 10MHz+20MHz



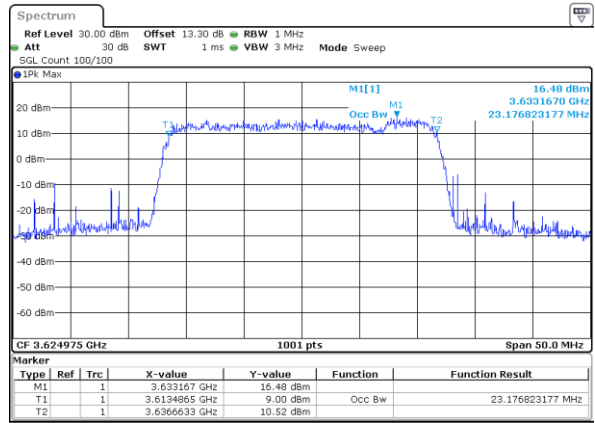
Date: 24.APR.2024 23:37:22

Middle Channel / 15MHz+20MHz



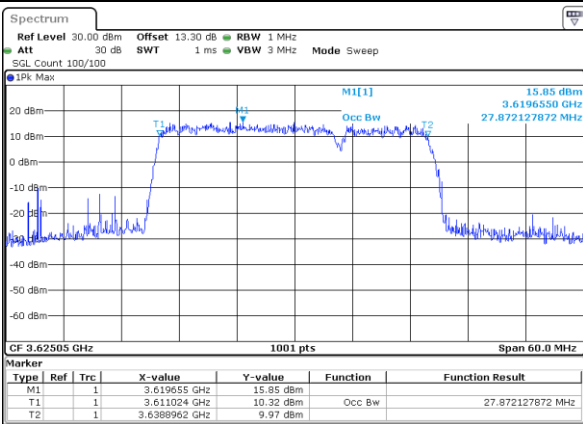
Date: 25.APR.2024 00:29:54

Middle Channel / 20MHz+5MHz



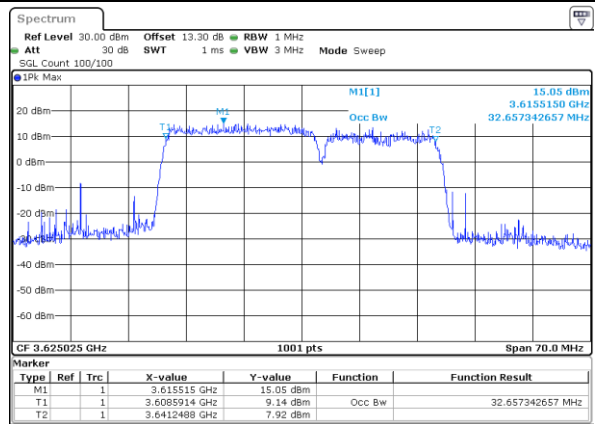
Date: 24.APR.2024 23:33:47

Middle Channel / 20MHz+10MHz



Date: 24.APR.2024 23:40:52

Middle Channel / 20MHz+15MHz



Date: 25.APR.2024 00:33:24

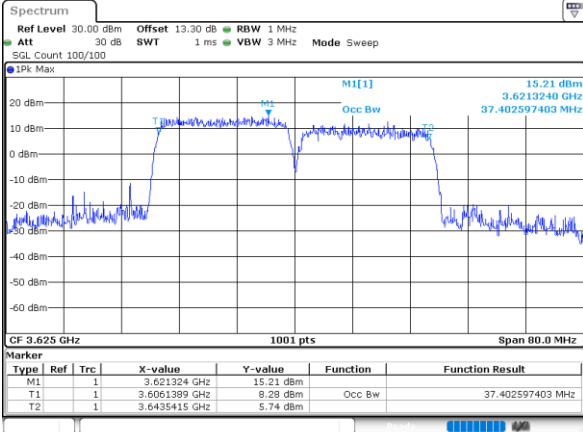


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A



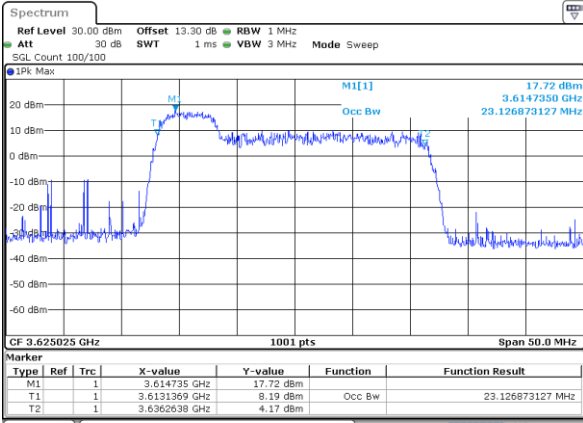
Date: 25, APR, 2024 00:36:52



LTE Band 48C

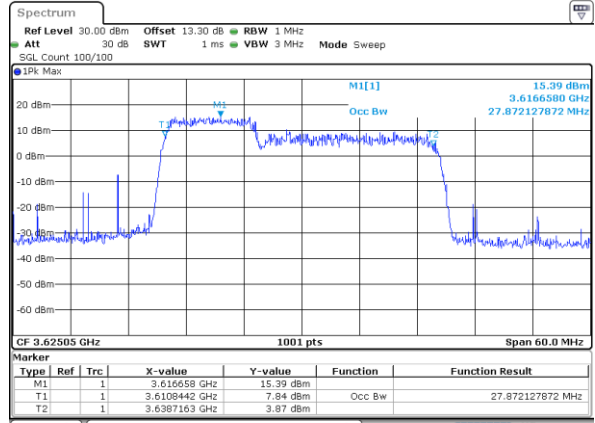
256QAM

Middle Channel / 5MHz+20MHz



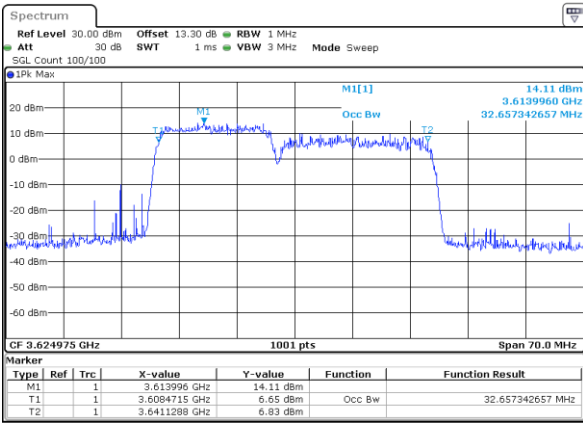
Date: 24, APR, 2024 23:30:43

Middle Channel / 10MHz+20MHz



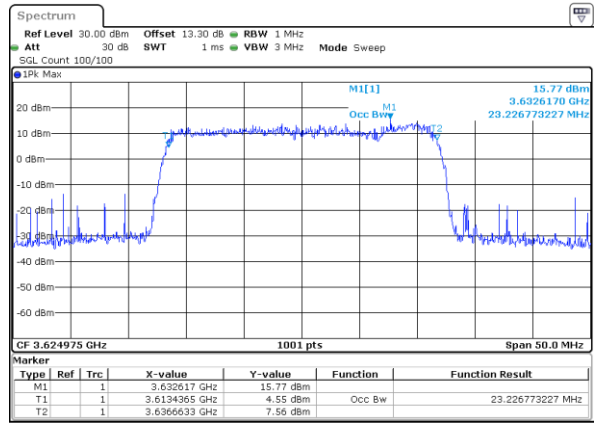
Date: 24, APR, 2024 23:37:48

Middle Channel / 15MHz+20MHz



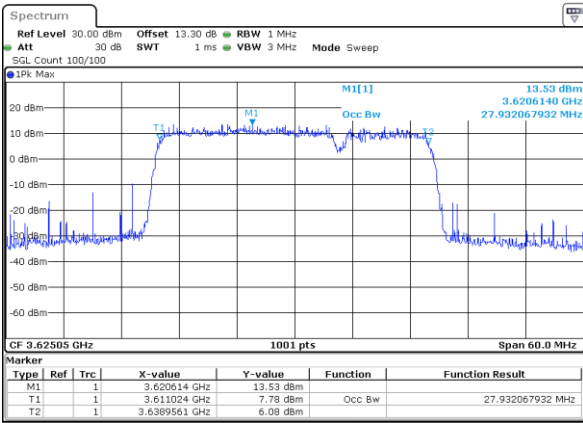
Date: 25, APR, 2024 00:30:19

Middle Channel / 20MHz+5MHz



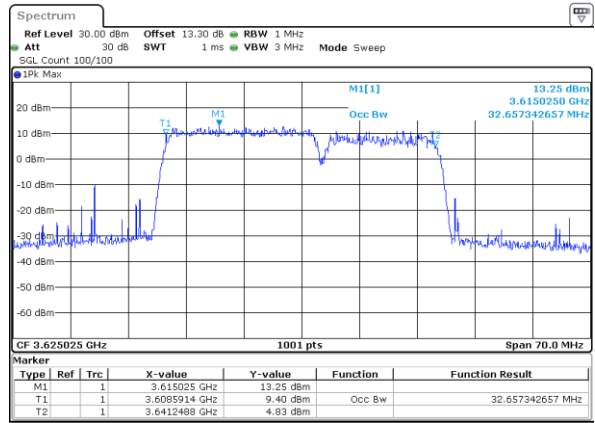
Date: 24, APR, 2024 23:34:13

Middle Channel / 20MHz+10MHz

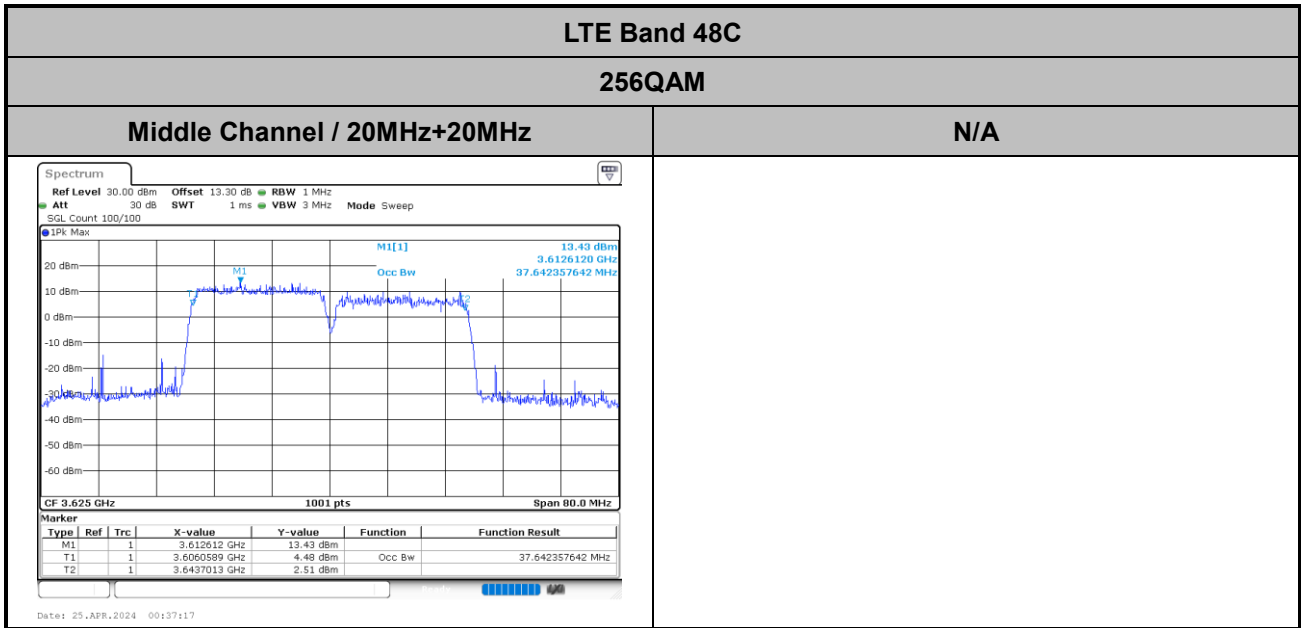


Date: 24, APR, 2024 23:41:17

Middle Channel / 20MHz+15MHz



Date: 25, APR, 2024 00:33:49





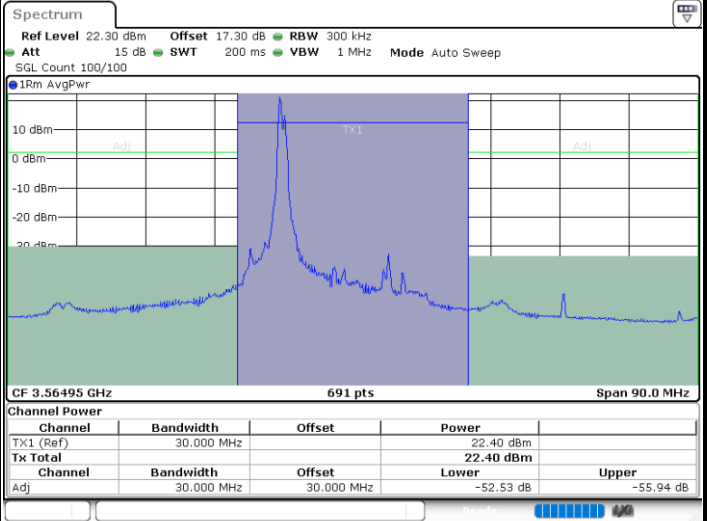
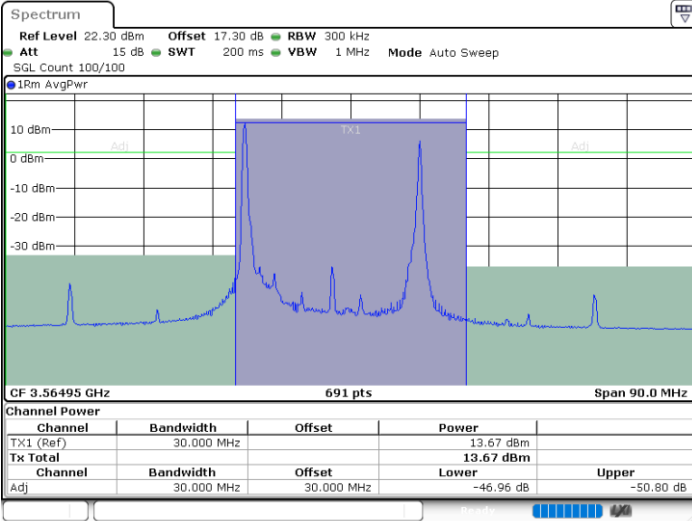
ACLR

LTE Band 48C / 5MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0

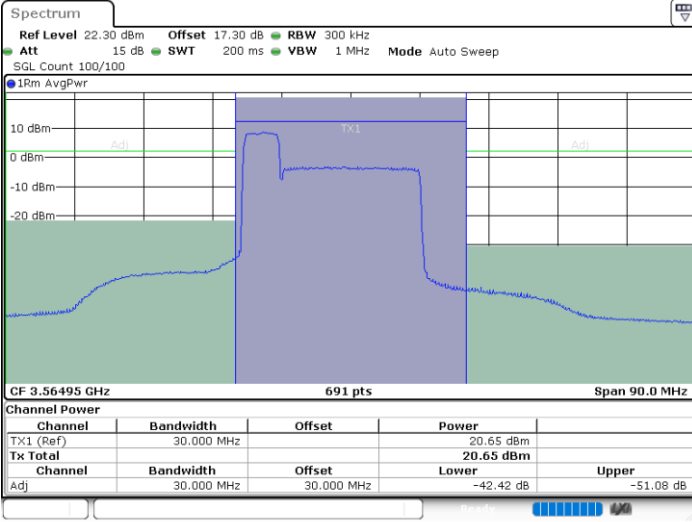


Date: 24.APR.2024 14:56:48

Date: 24.APR.2024 14:57:32

Lowest Channel / FullIRB

N/A



Date: 24.APR.2024 14:51:39

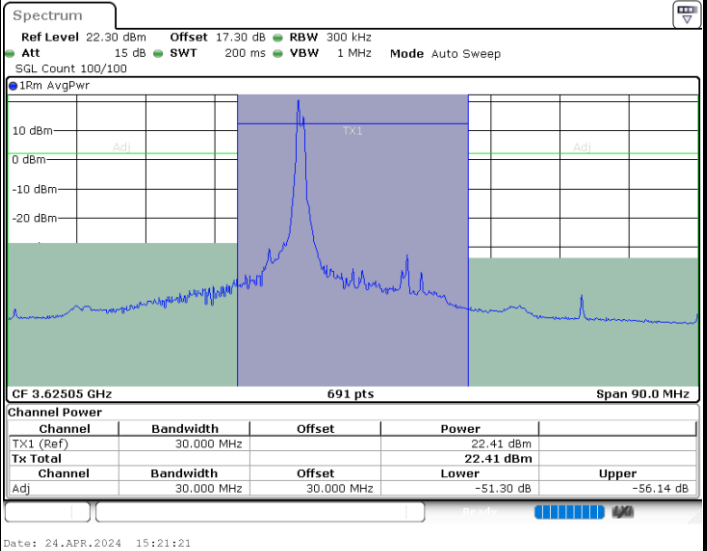
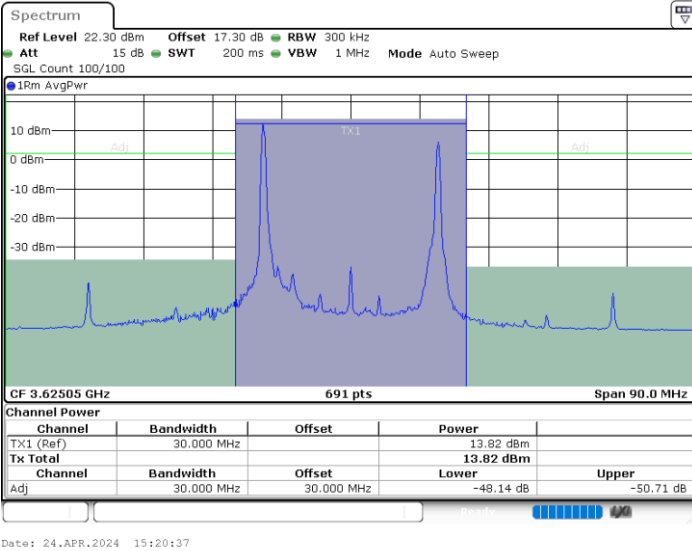


LTE Band 48C / 5MHz+20MHz

QPSK

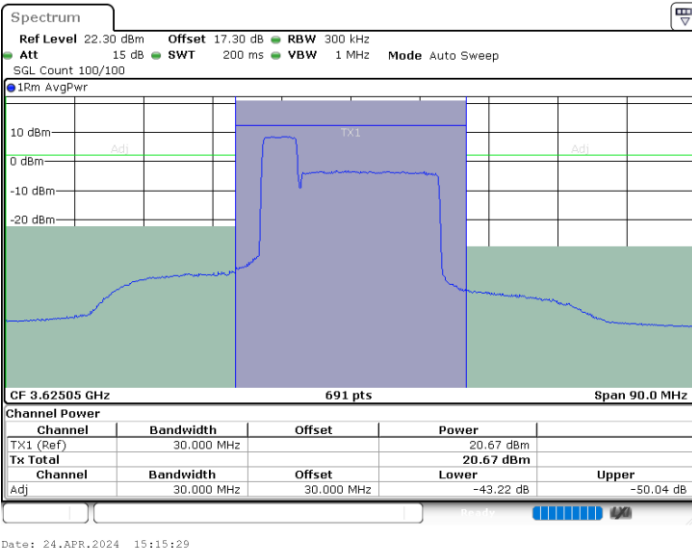
Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB24 and 1RB0



Middle Channel / FullIRB

N/A



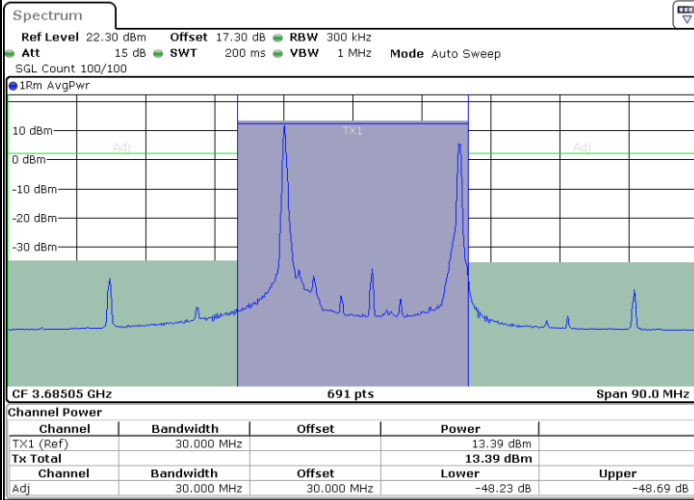


LTE Band 48C / 5MHz+20MHz

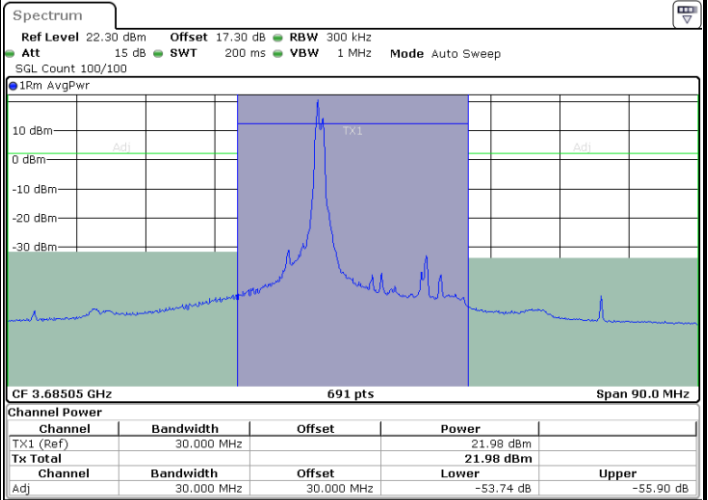
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



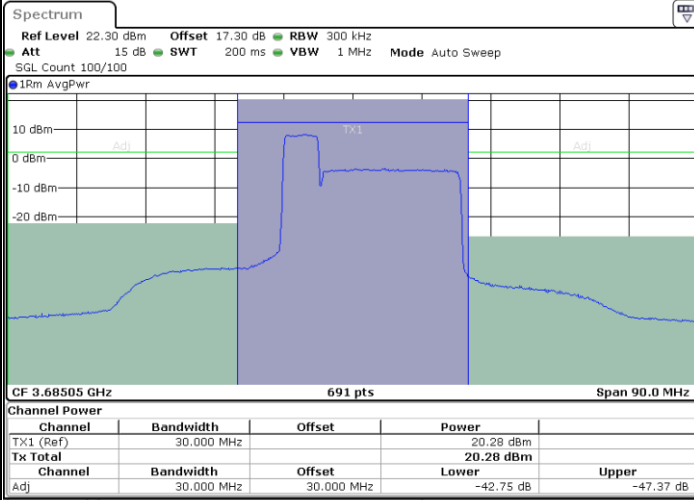
Date: 24.APR.2024 15:40:39



Date: 24.APR.2024 15:45:47

Highest Channel / FullIRB

N/A



Date: 24.APR.2024 15:39:55

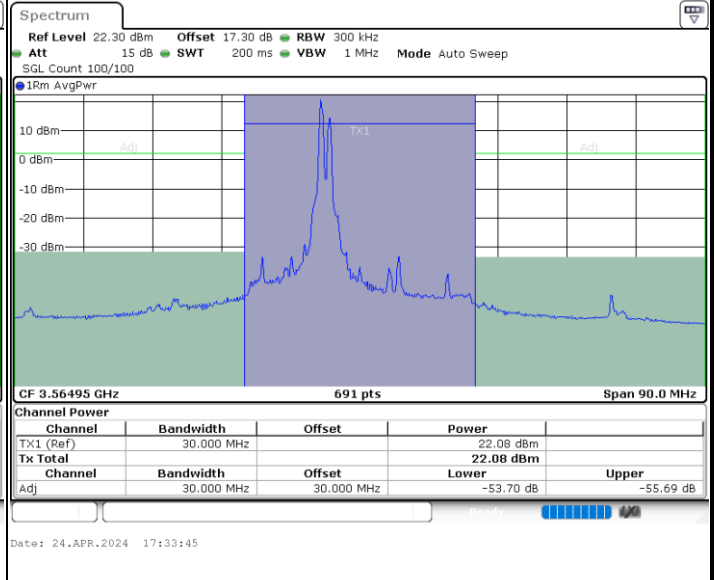
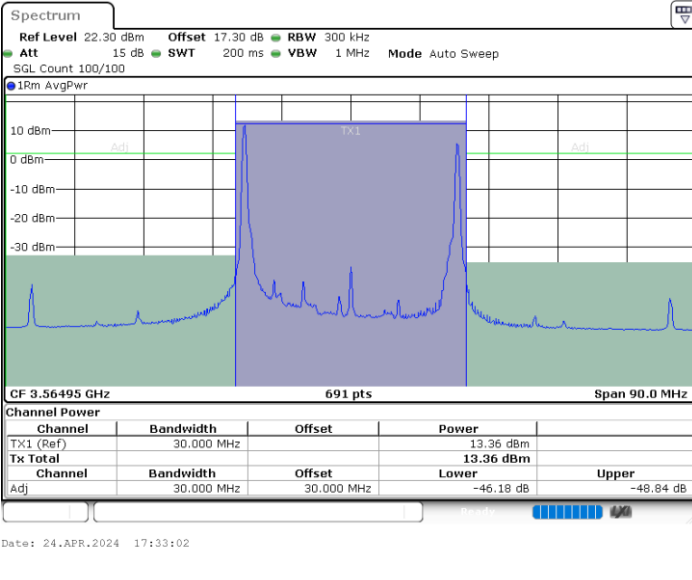


LTE Band 48C / 10MHz+20MHz

QPSK

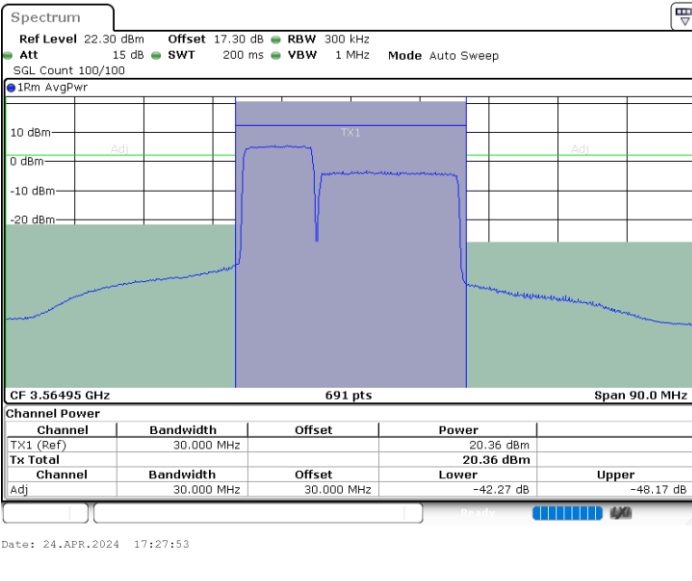
Lowest Channel / 1RB0 and 1RB9

Lowest Channel / 1RB49 and 1RB0



Lowest Channel / FullIRB

N/A



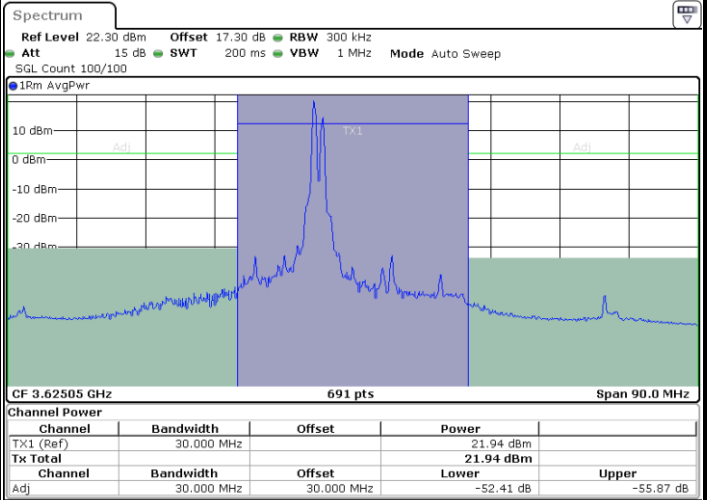
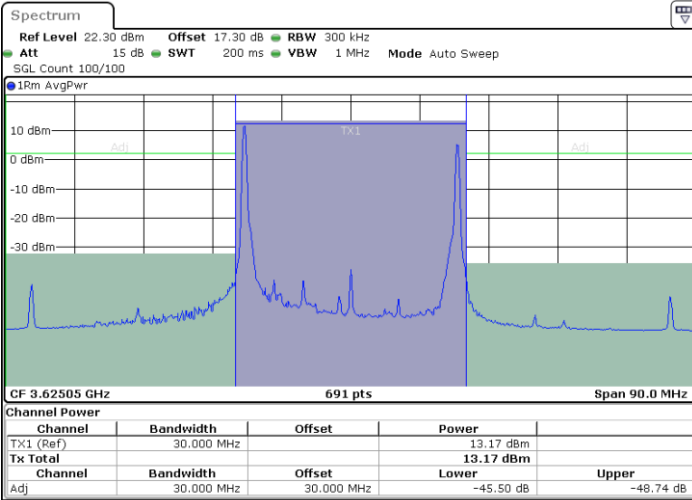


LTE Band 48C / 10MHz+20MHz

QPSK

Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB49 and 1RB0

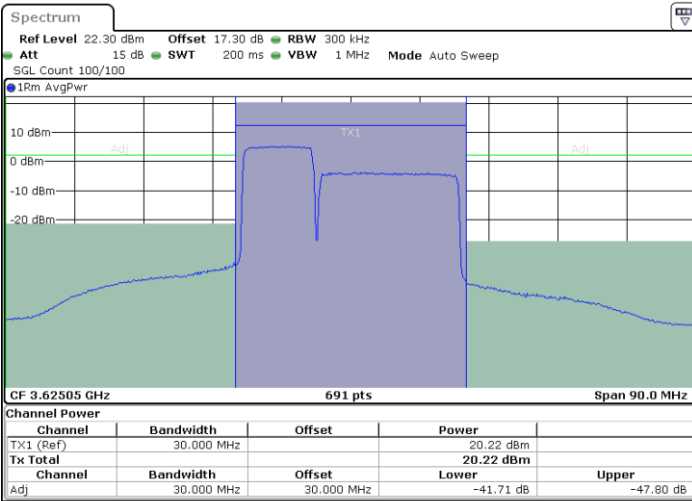


Date: 24.APR.2024 17:55:11

Date: 24.APR.2024 17:55:55

Middle Channel / FullIRB

N/A



Date: 24.APR.2024 17:50:04

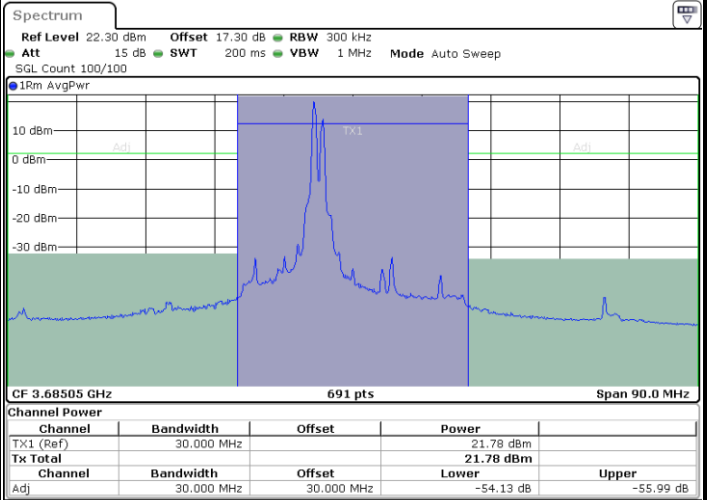
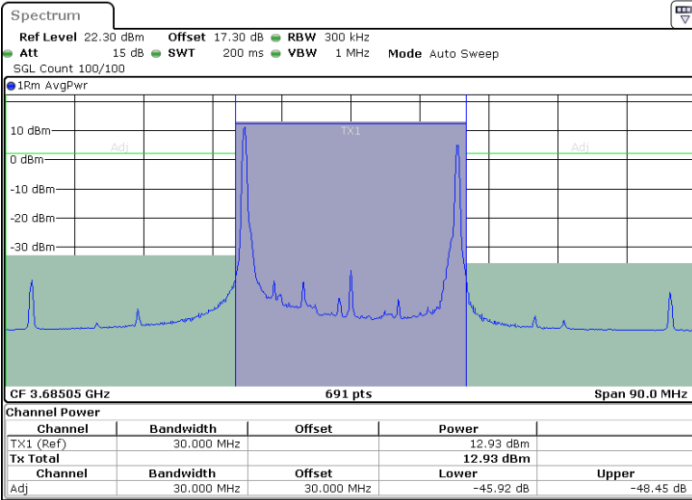


LTE Band 48C / 10MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0

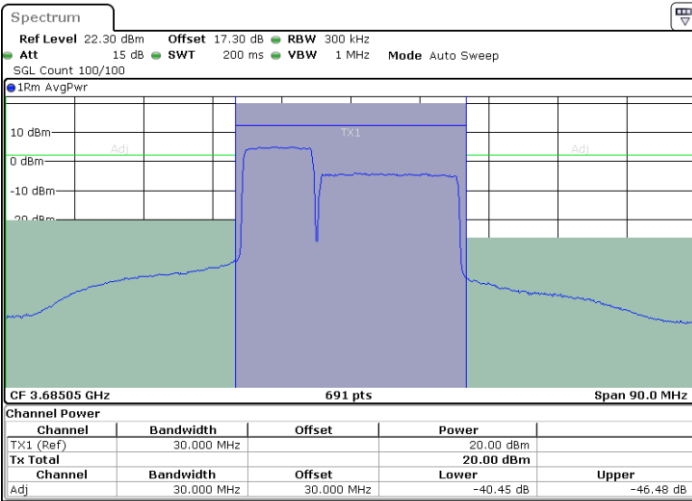


Date: 24.APR.2024 18:15:13

Date: 24.APR.2024 18:20:21

Highest Channel / FullIRB

N/A



Date: 24.APR.2024 18:14:29

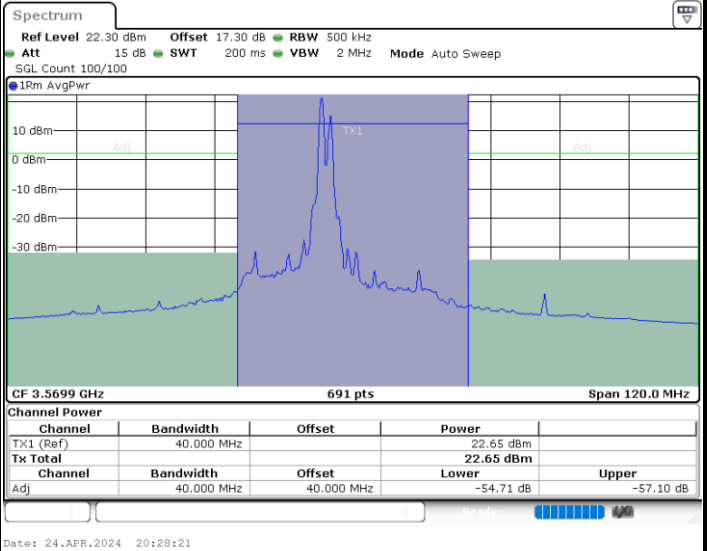
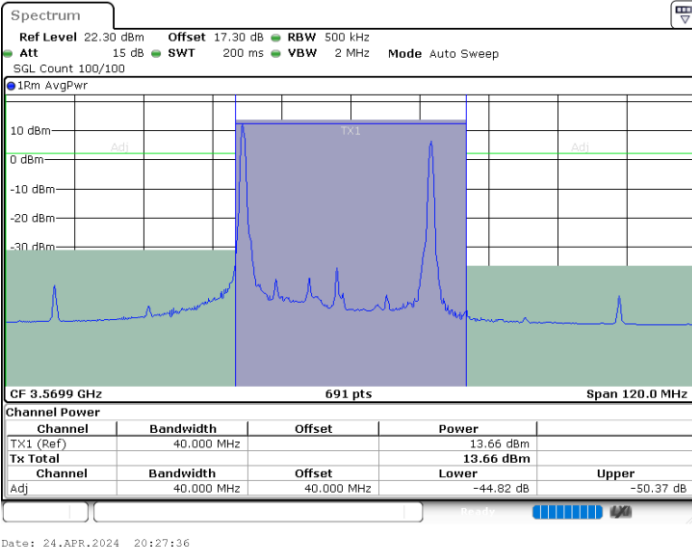


LTE Band 48C / 15MHz+20MHz

QPSK

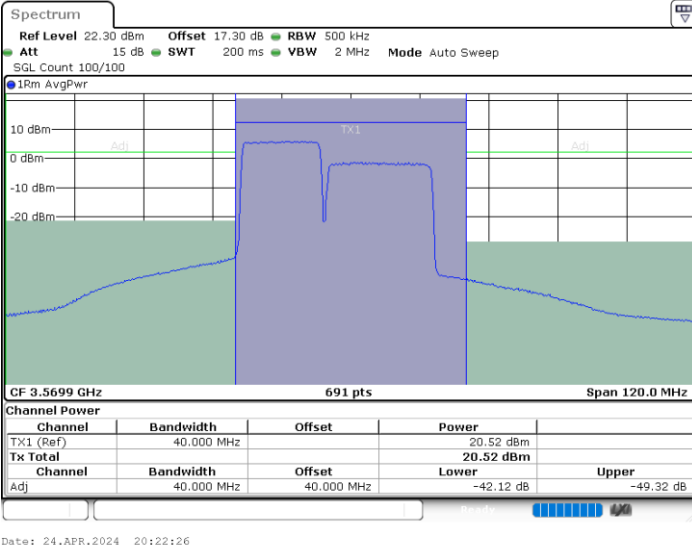
Lowest Channel / 1RB0 and 1RB9

Lowest Channel / 1RB74 and 1RB0



Lowest Channel / FullIRB

N/A



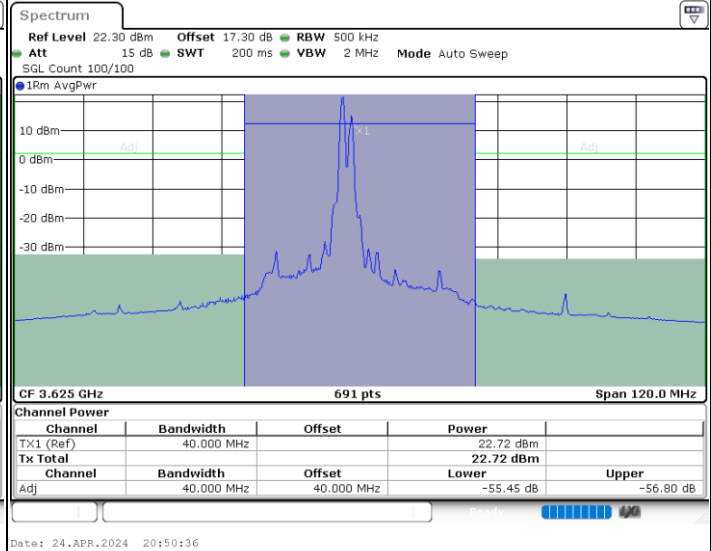
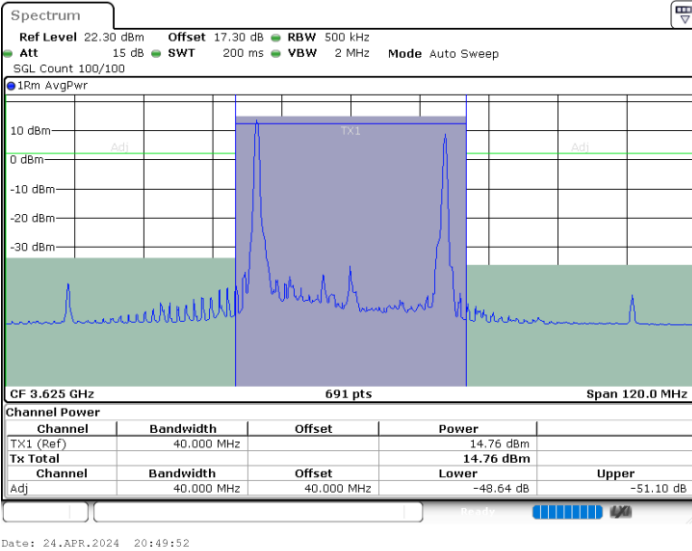


LTE Band 48C / 15MHz+20MHz

QPSK

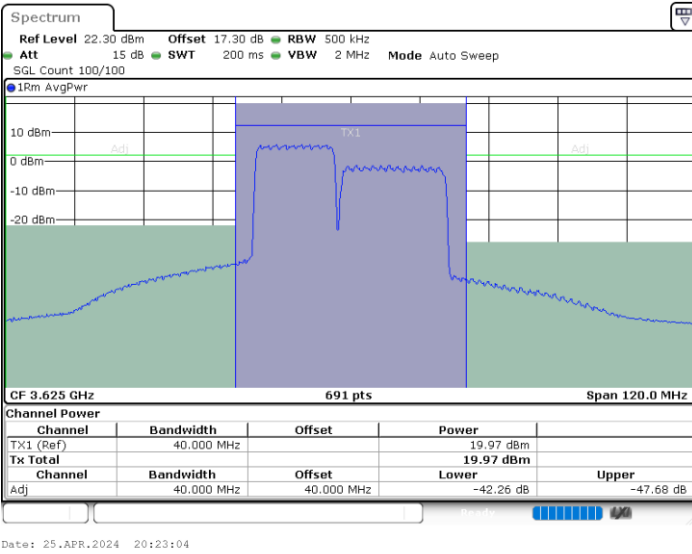
Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB74 and 1RB0



Middle Channel / FullIRB

N/A



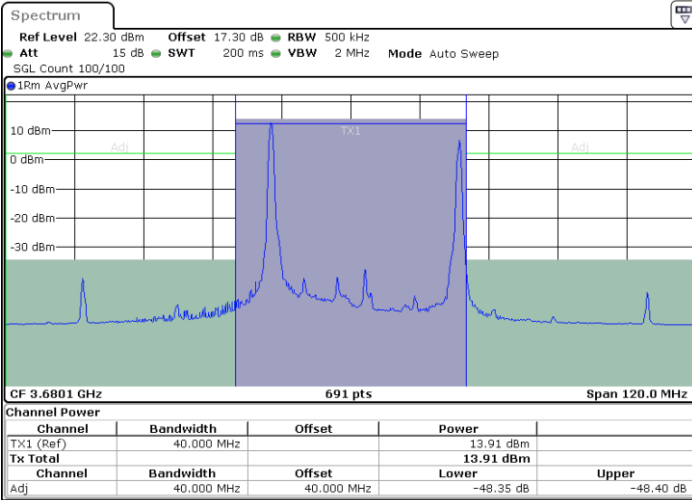


LTE Band 48C / 15MHz+20MHz

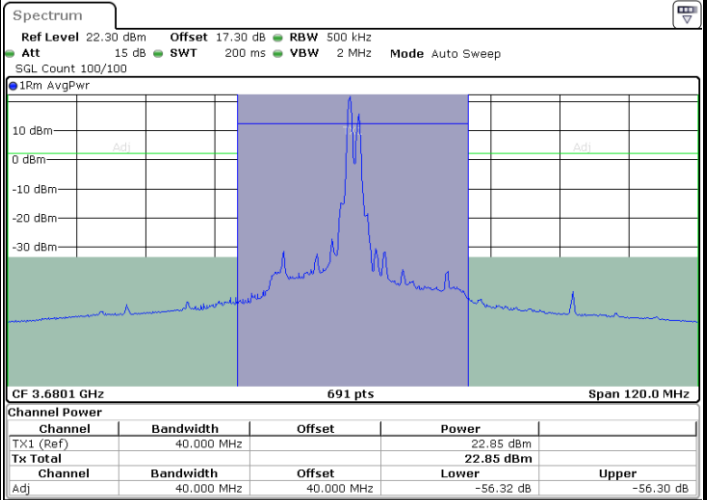
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



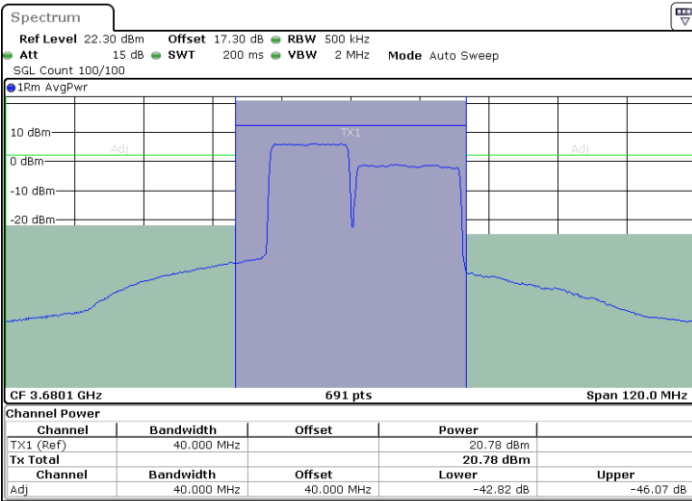
Date: 24.APR.2024 21:09:56



Date: 24.APR.2024 21:15:05

Highest Channel / FullIRB

N/A



Date: 24.APR.2024 21:09:11

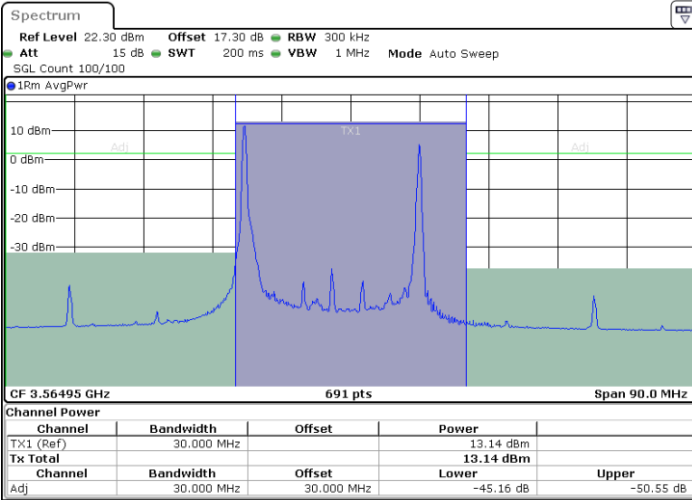


LTE Band 48C / 20MHz+5MHz

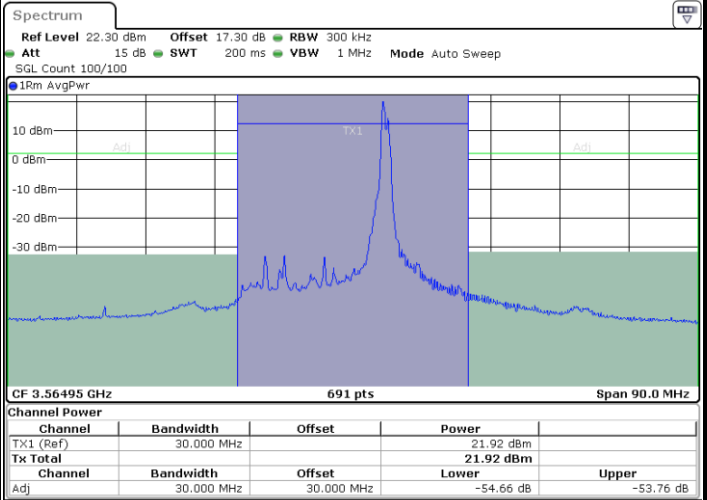
QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



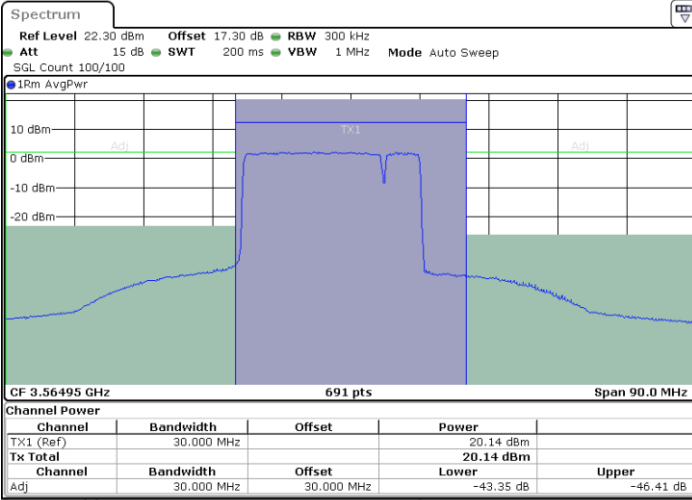
Date: 24.APR.2024 16:05:08



Date: 24.APR.2024 16:05:52

Lowest Channel / FullIRB

N/A



Date: 24.APR.2024 16:00:00