

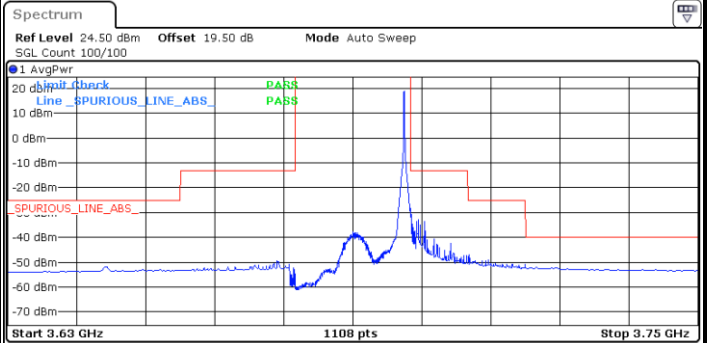
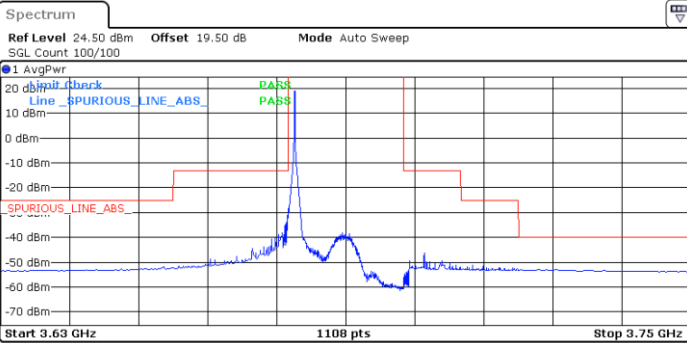


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65837 GHz	-52.05 dBm	-27.05 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67891 GHz	-38.07 dBm	-25.07 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.68000 GHz	-28.42 dBm	-15.42 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68112 GHz	18.83 dBm	-11.17 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70094 GHz	-53.06 dBm	-40.06 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70363 GHz	-46.44 dBm	-33.44 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71193 GHz	-51.31 dBm	-26.31 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72639 GHz	-52.91 dBm	-12.91 dB

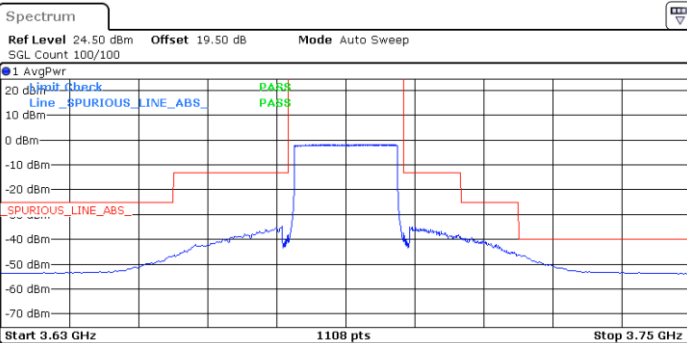
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.64738 GHz	-51.97 dBm	-26.97 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67684 GHz	-49.37 dBm	-36.37 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67974 GHz	-52.27 dBm	-39.27 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69893 GHz	19.00 dBm	-11.00 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70000 GHz	-28.20 dBm	-15.20 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70131 GHz	-32.94 dBm	-19.94 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71025 GHz	-46.93 dBm	-21.93 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72193 GHz	-52.06 dBm	-12.06 dB

Date: 28.NOV.2024 23:24:00

Date: 28.NOV.2024 23:25:14

Highest Channel / FullRB

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65926 GHz	-46.83 dBm	-21.83 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67891 GHz	-34.77 dBm	-21.77 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.68000 GHz	-38.20 dBm	-25.20 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69444 GHz	-1.80 dBm	-31.80 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70000 GHz	-37.50 dBm	-24.50 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-34.97 dBm	-21.97 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71183 GHz	-39.25 dBm	-14.25 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-46.35 dBm	-6.35 dB

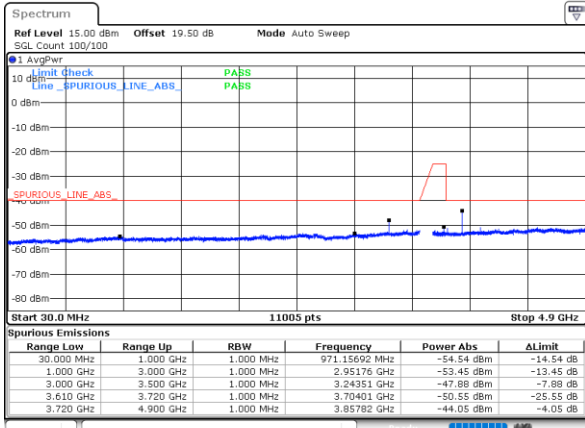
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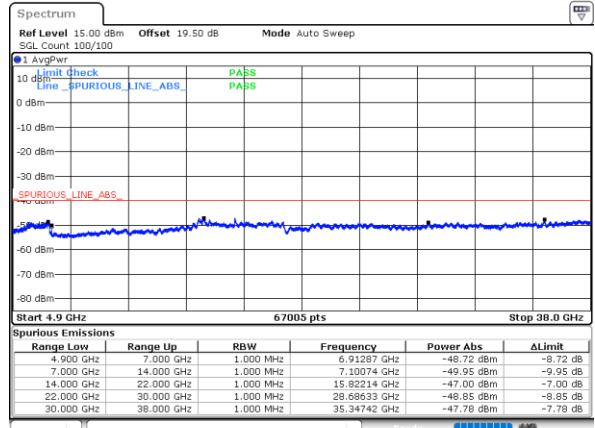
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

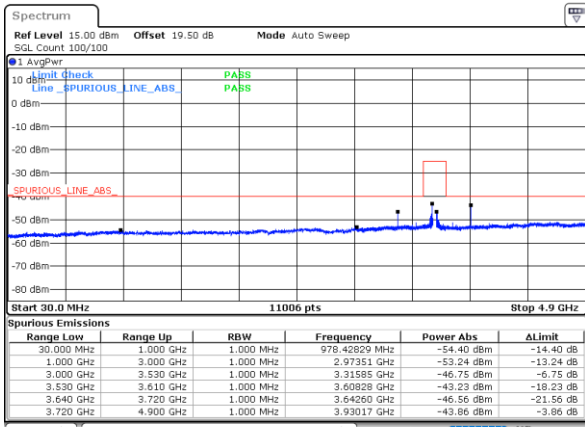


Date: 28.NOV.2024 20:15:04

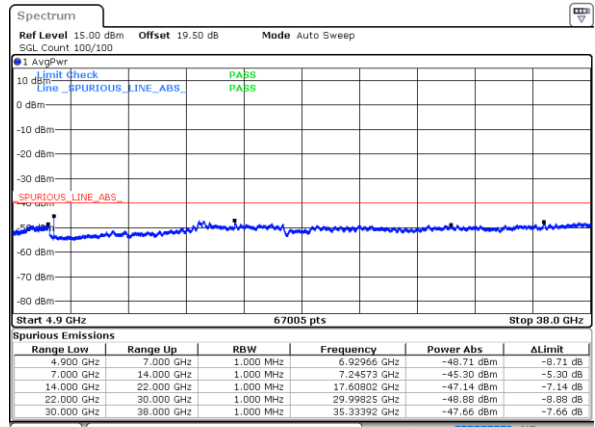


Date: 29.NOV.2024 00:10:25

Middle Channel / QPSK

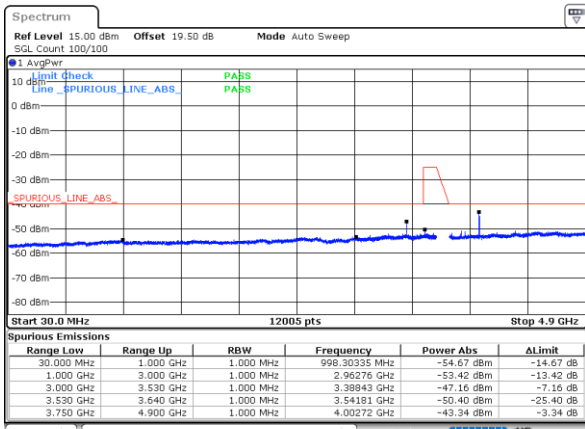


Date: 28.NOV.2024 20:35:52

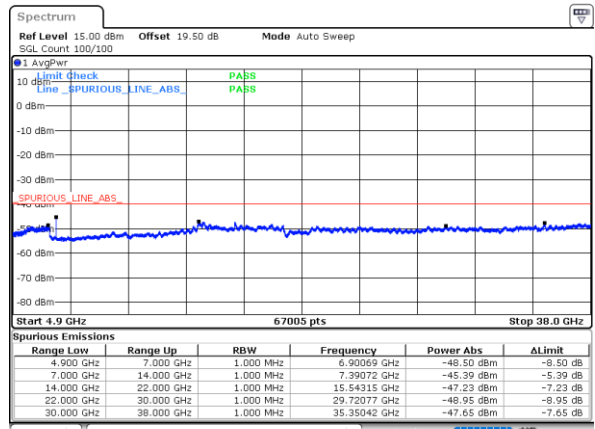


Date: 29.NOV.2024 00:10:59

Highest Channel / QPSK



Date: 28.NOV.2024 20:55:29

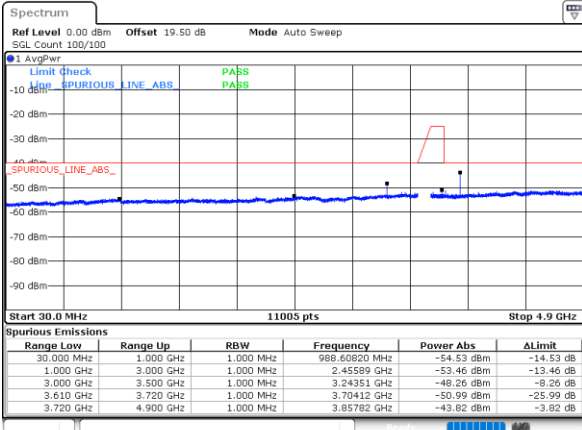


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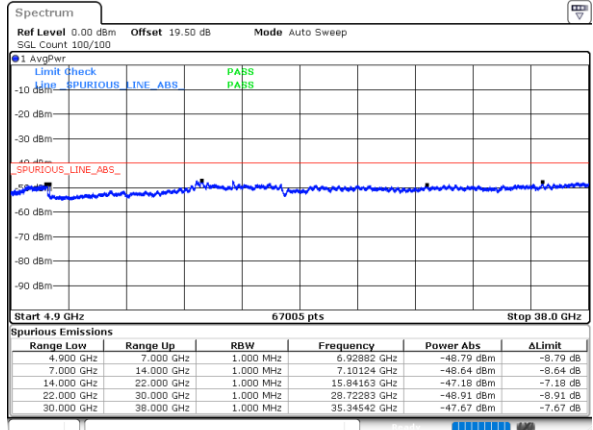


LTE Band 48 / 10MHz

Lowest Channel / QPSK

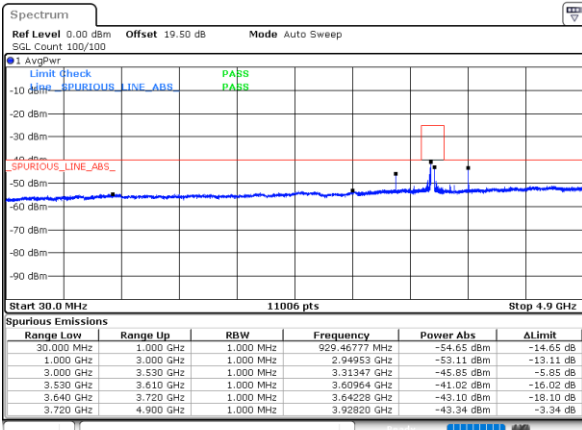


Date: 28.NOV.2024 21:18:50

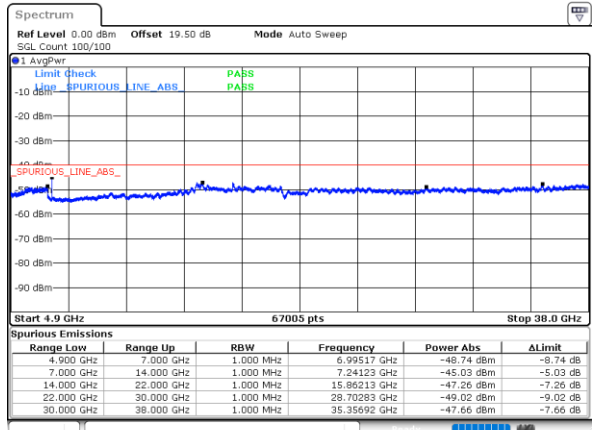


Date: 29.NOV.2024 00:06:51

Middle Channel / QPSK

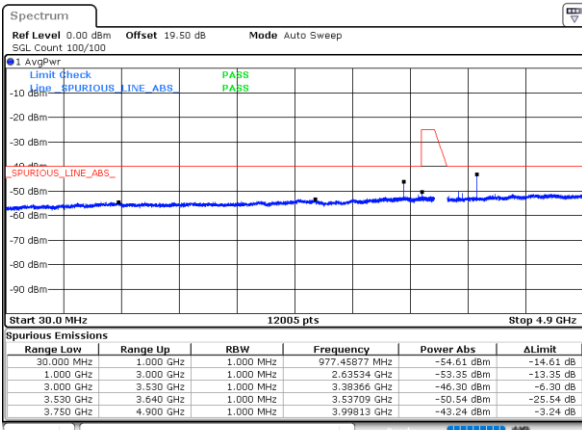


Date: 29.NOV.2024 21:18:48

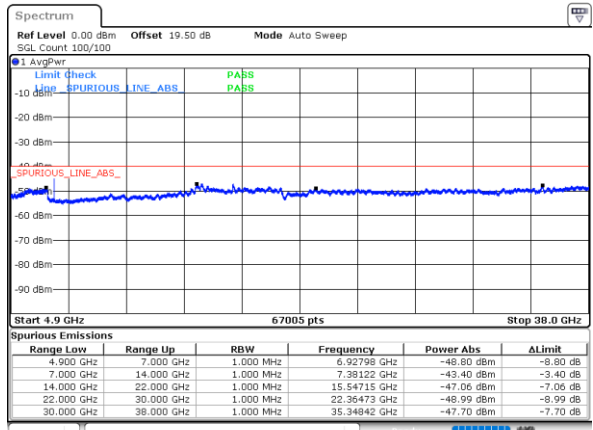


Date: 29.NOV.2024 00:08:26

Highest Channel / QPSK



Date: 28.NOV.2024 21:57:32

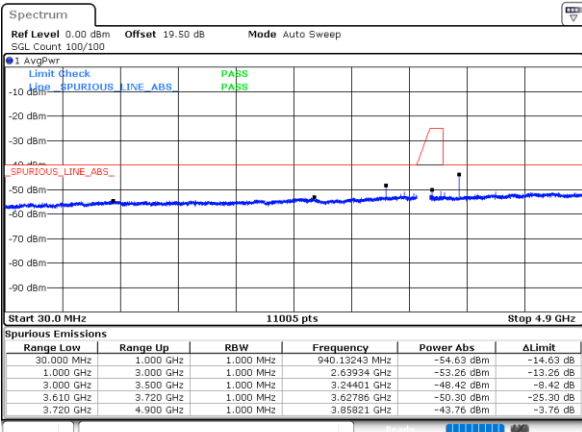


Date: 29.NOV.2024 00:10:00

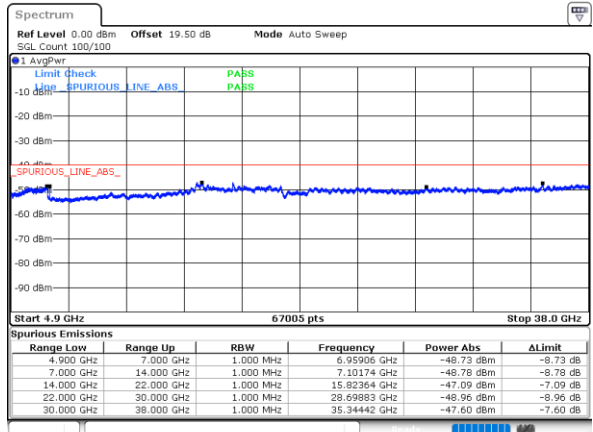


LTE Band 48 / 15MHz

Lowest Channel / QPSK

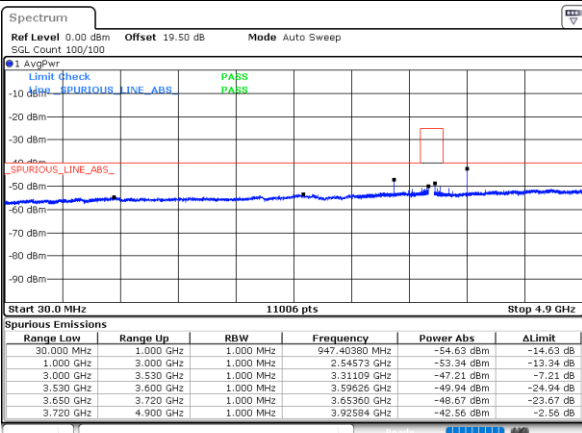


Date: 28.NOV.2024 22:16:55

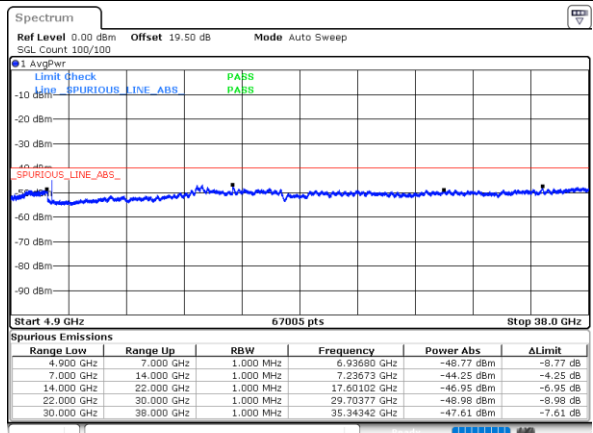


Date: 29.NOV.2024 00:12:18

Middle Channel / QPSK

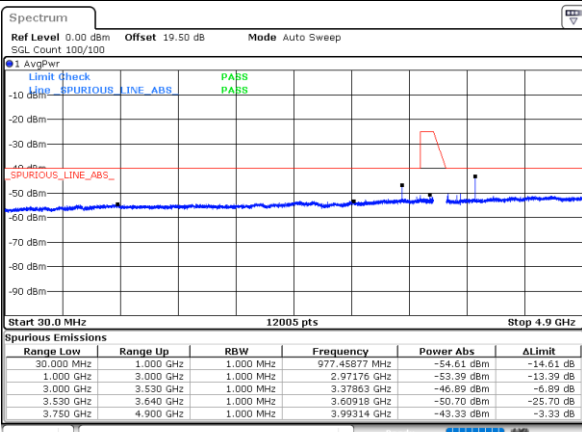


Date: 28.NOV.2024 22:25:35

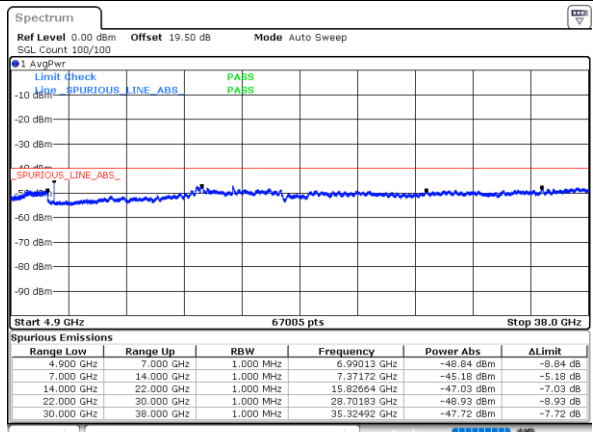


Date: 29.NOV.2024 00:12:18

Highest Channel / QPSK



Date: 28.NOV.2024 22:44:21

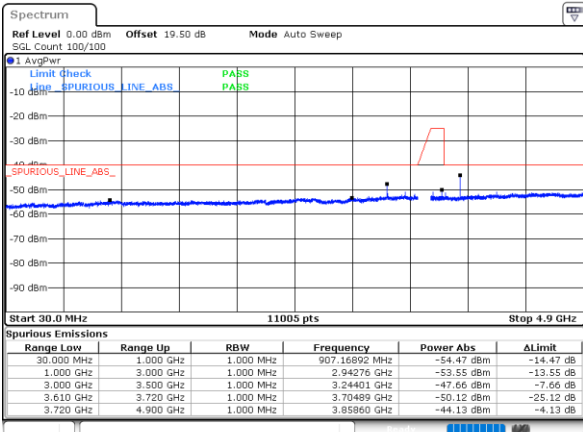


Date: 29.NOV.2024 00:12:14

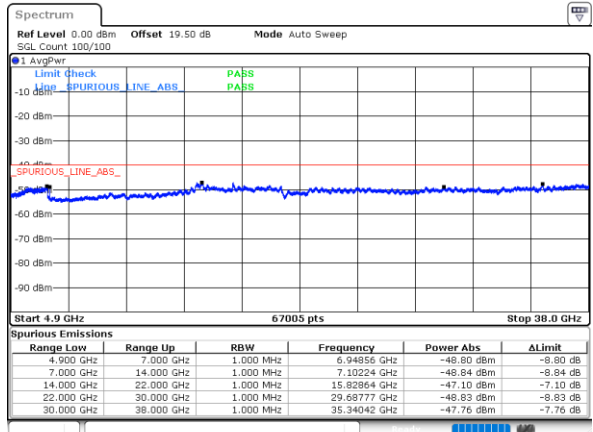


LTE Band 48 / 20MHz

Lowest Channel / QPSK

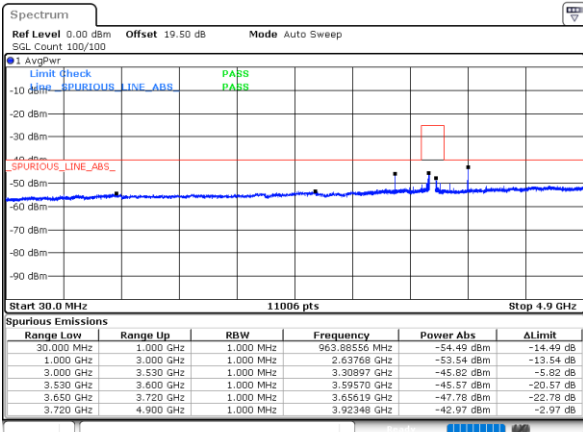


Date: 28.NOV.2024 23:03:40

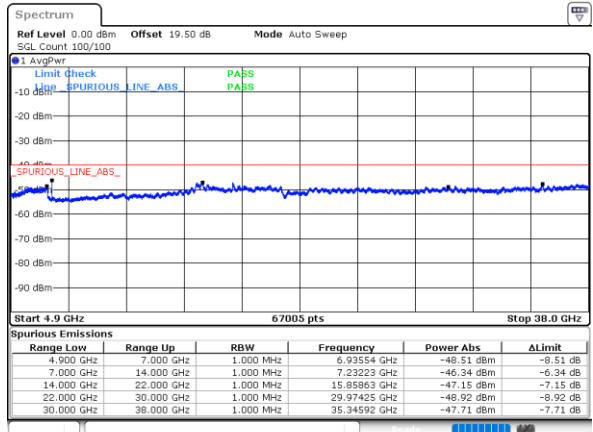


Date: 29.NOV.2024 00:13:15Z

Middle Channel / QPSK

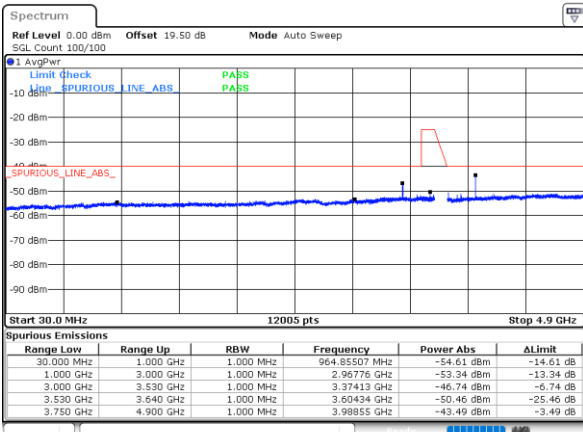


Date: 28.NOV.2024 23:12:25

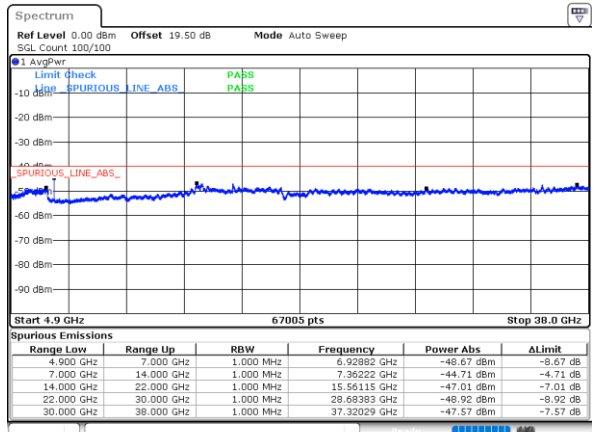


Date: 29.NOV.2024 00:47:23

Highest Channel / QPSK



Date: 28.NOV.2024 23:32:18



Date: 29.NOV.2024 00:48:57



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	3.7	PASS
40	Normal Voltage	-2.9	
30	Normal Voltage	4	
20(Ref.)	Normal Voltage	-3.8	
10	Normal Voltage	-3.4	
0	Normal Voltage	3.3	
-10	Normal Voltage	-2.8	
-20	Normal Voltage	-3.3	
-30	Normal Voltage	3.1	
20	Maximum Voltage	3.4	
20	Normal Voltage	-3.8	
20	Battery End Point	-2.9	

Note:

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.5 V.
2. The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group.

$|\text{MAX}(\Delta f)| = 4\text{Hz}$

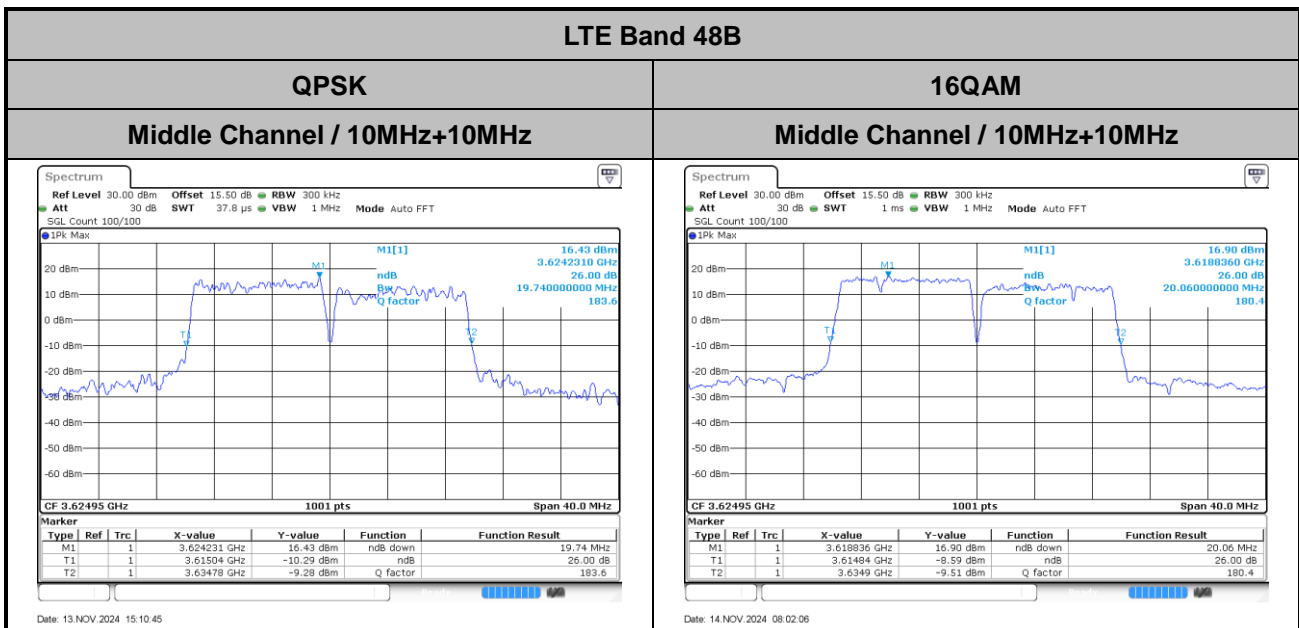
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3550.242296	$\geq 3550 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3699.737804	$\leq 3700 \text{ MHz}$	



LTE Band 48B

26dB Bandwidth

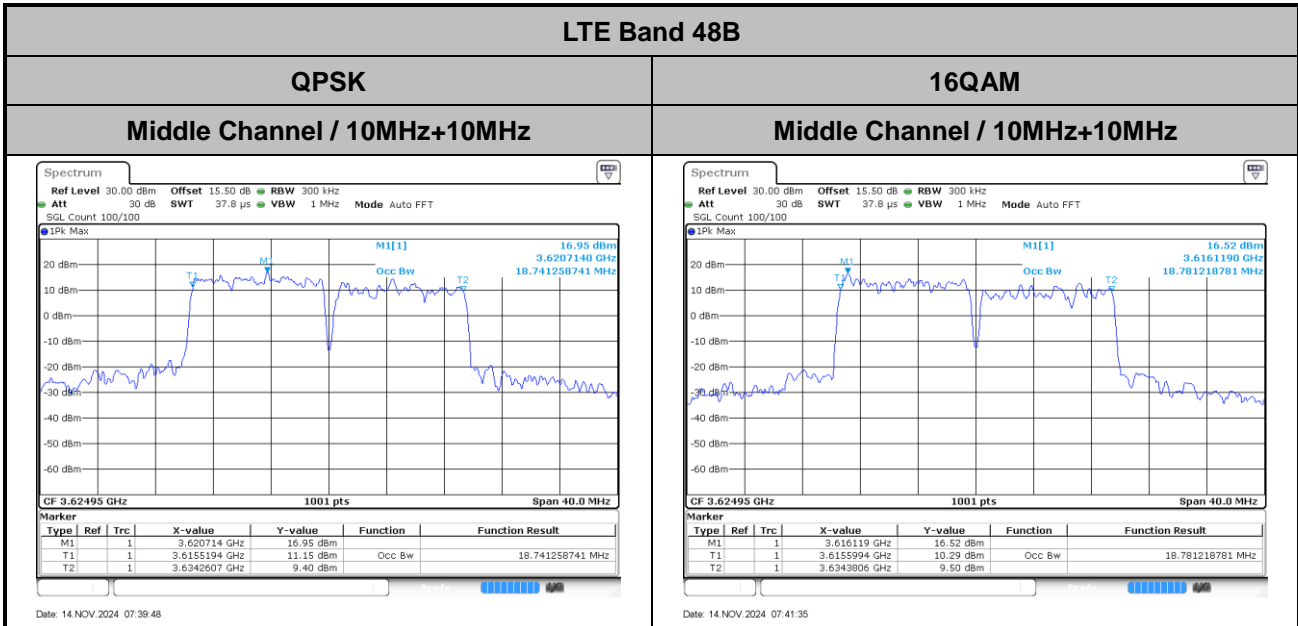
Mode	LTE Band 48B : 26dB BW(MHz)	
	10MHz+10MHz	
BW	QPSK	16QAM
Middle CH	19.74	20.06





Occupied Bandwidth

Mode	LTE Band 48B : 99%OBW(MHz)	
	10MHz+10MHz	
BW	QPSK	16QAM
Middle CH	18.74	18.78





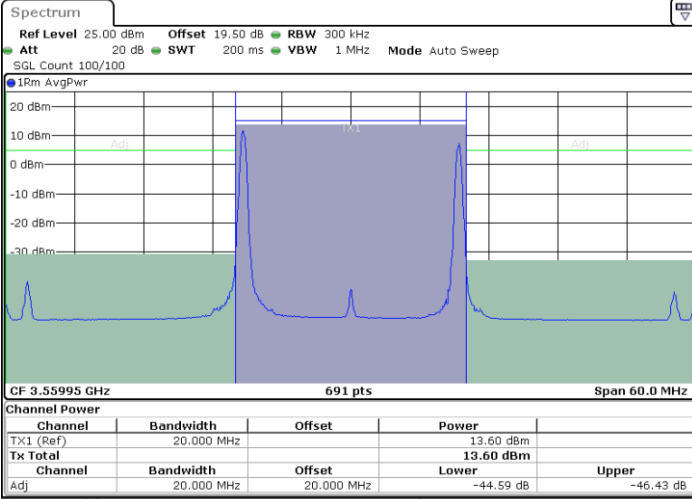
ACLR

LTE Band 48B / 10MHz+10MHz

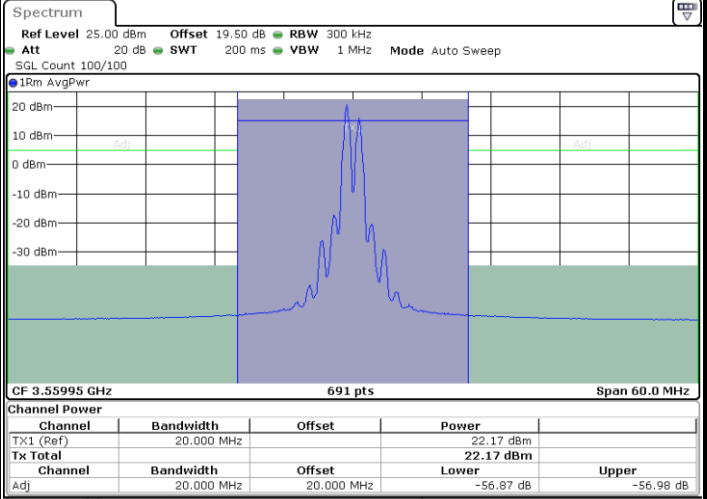
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



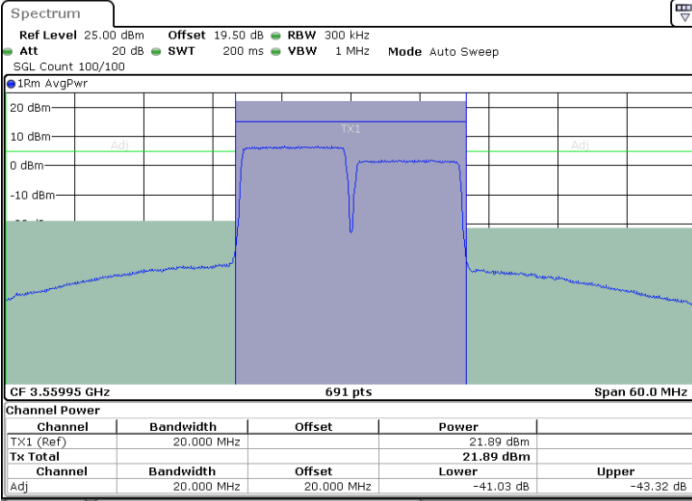
Date: 26.NOV.2024 18:03:53



Date: 26.NOV.2024 18:04:39

Lowest Channel / FullIRB

N/A



Date: 26.NOV.2024 18:00:01

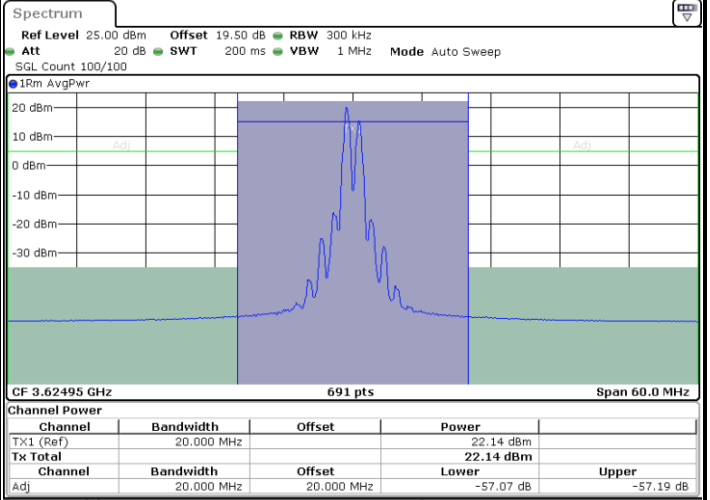
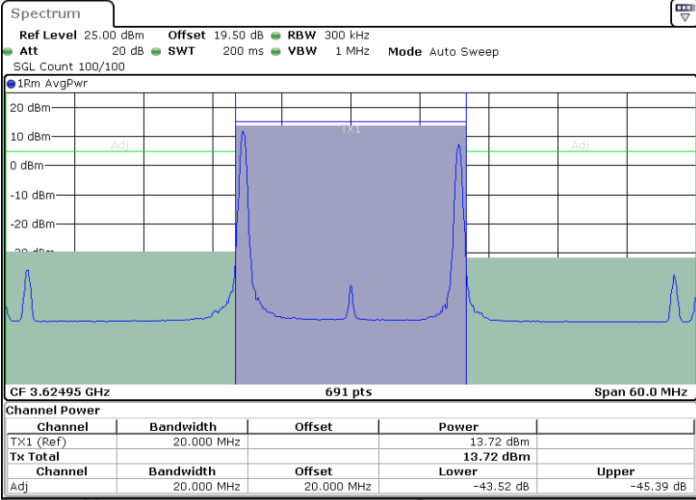


LTE Band 48B / 10MHz+10MHz

QPSK

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0

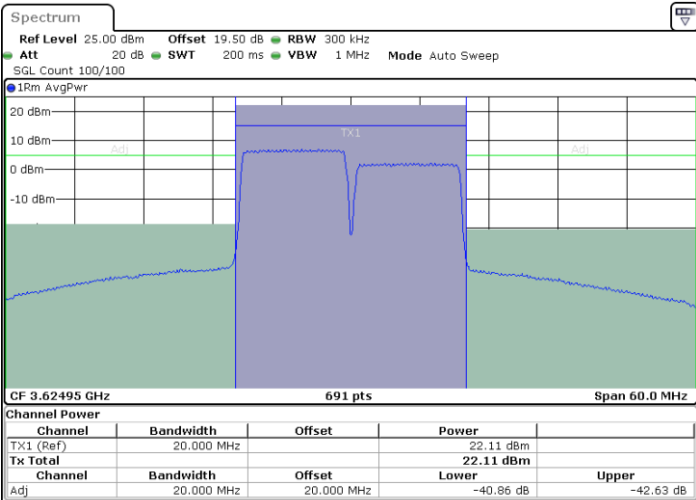


Date: 26.NOV.2024 17:56:51

Date: 26.NOV.2024 17:57:38

Middle Channel / FullIRB

N/A



Date: 26.NOV.2024 17:53:01

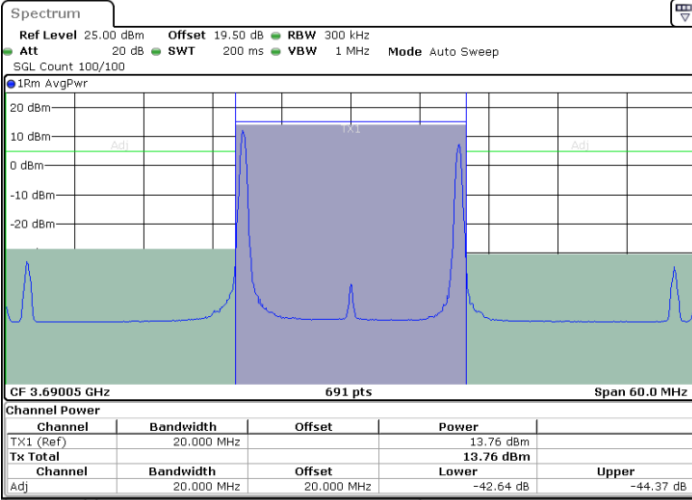


LTE Band 48B / 10MHz+10MHz

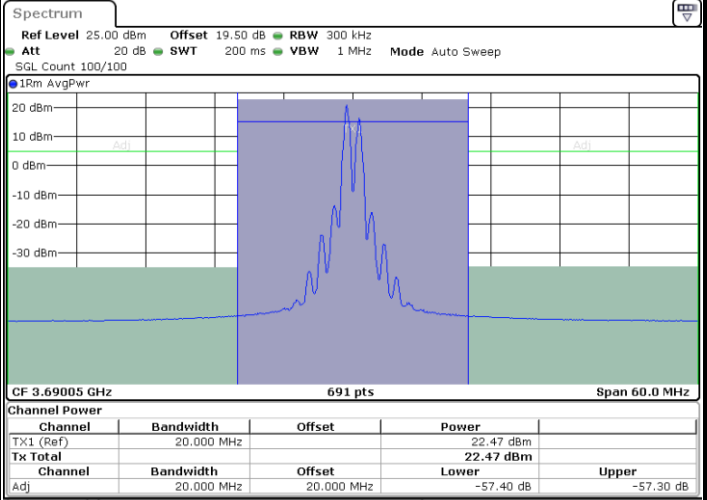
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



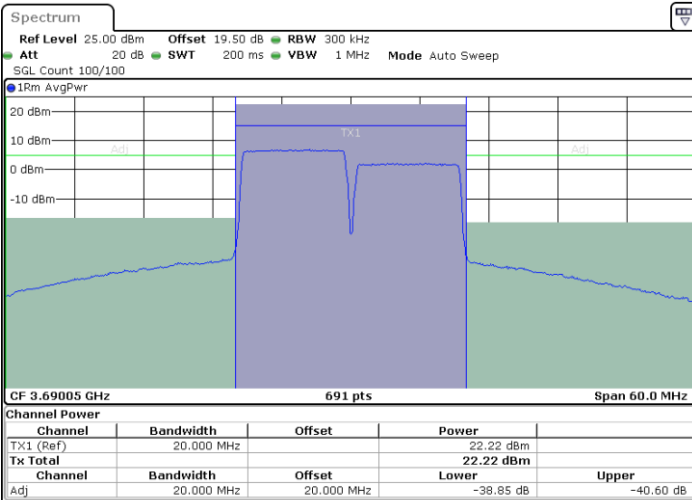
Date: 26.NOV.2024 18:47:05



Date: 26.NOV.2024 18:13:11

Highest Channel / FullRB

N/A



Date: 26.NOV.2024 18:10:52

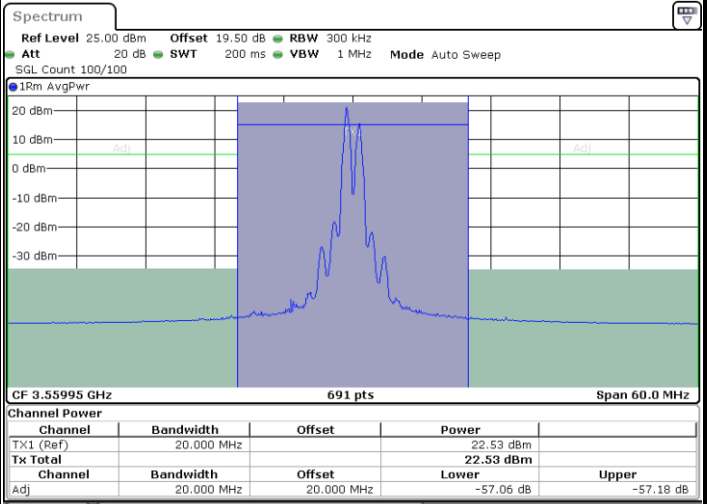
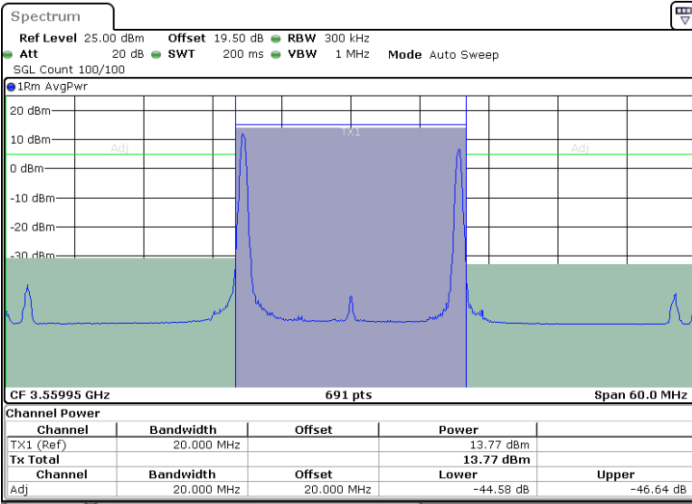


LTE Band 48B / 10MHz+10MHz

16QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0

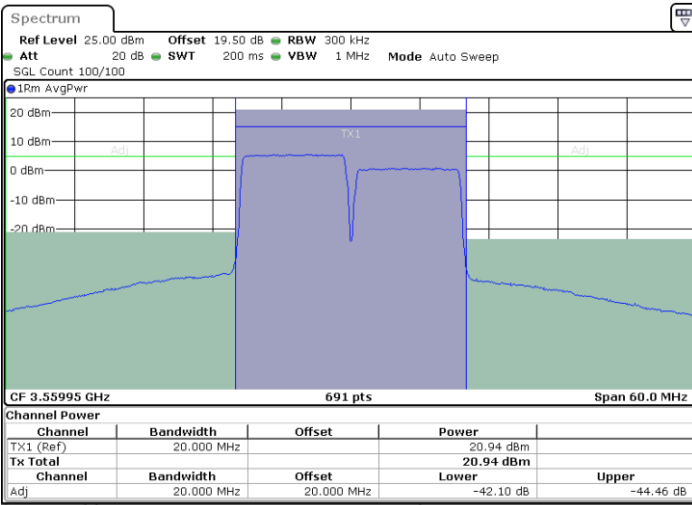


Date: 26.NOV.2024 18:03:06

Date: 26.NOV.2024 18:06:11

Lowest Channel / FullIRB

N/A



Date: 26.NOV.2024 18:00:47

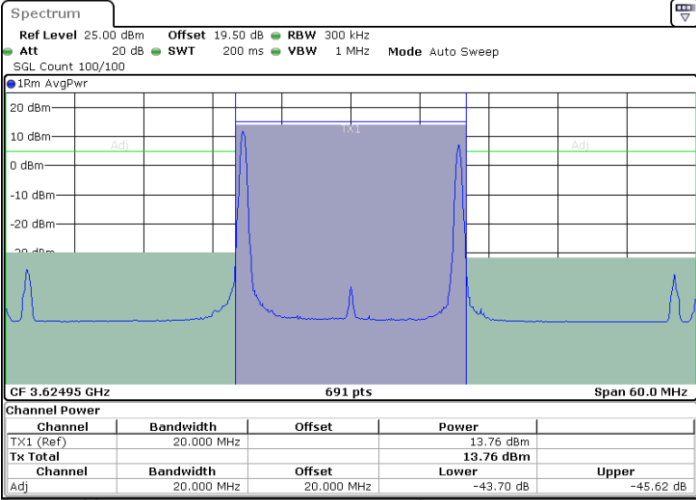


LTE Band 48B / 10MHz+10MHz

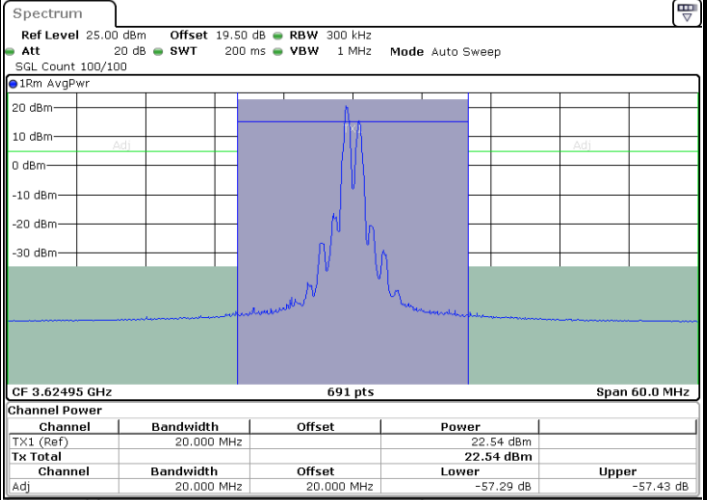
16QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



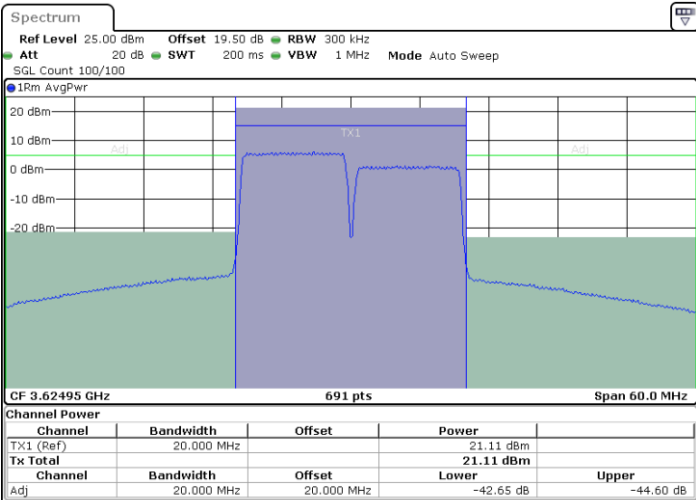
Date: 26.NOV.2024 17:56:06



Date: 26.NOV.2024 17:58:24

Middle Channel / FullIRB

N/A



Date: 26.NOV.2024 17:53:47

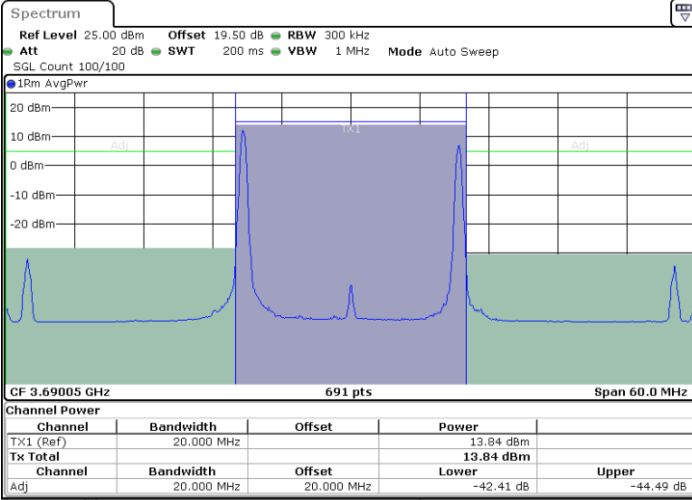


LTE Band 48B / 10MHz+10MHz

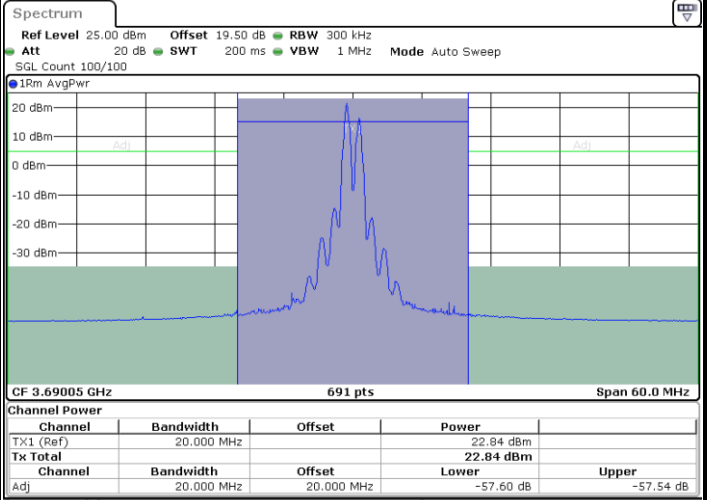
16QAM

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



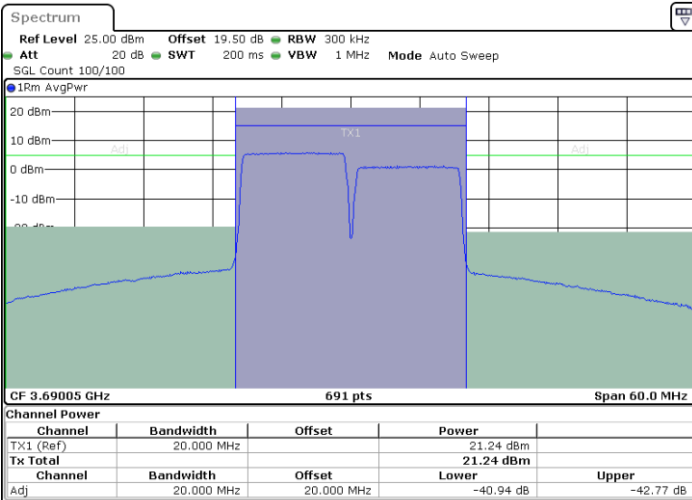
Date: 26.NOV.2024 18:48:14



Date: 26.NOV.2024 18:12:25

Highest Channel / FullRB

N/A



Date: 26.NOV.2024 18:09:20

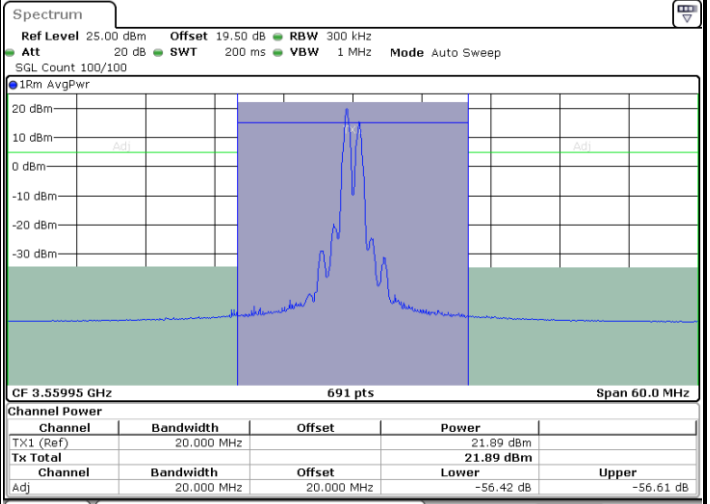
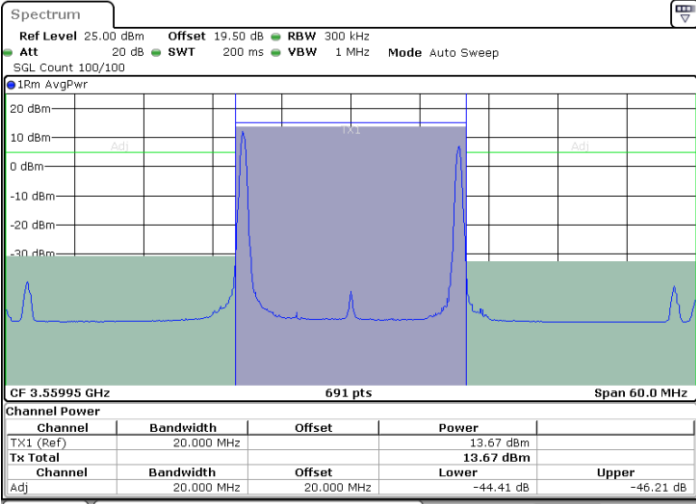


LTE Band 48B / 10MHz+10MHz

64QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0

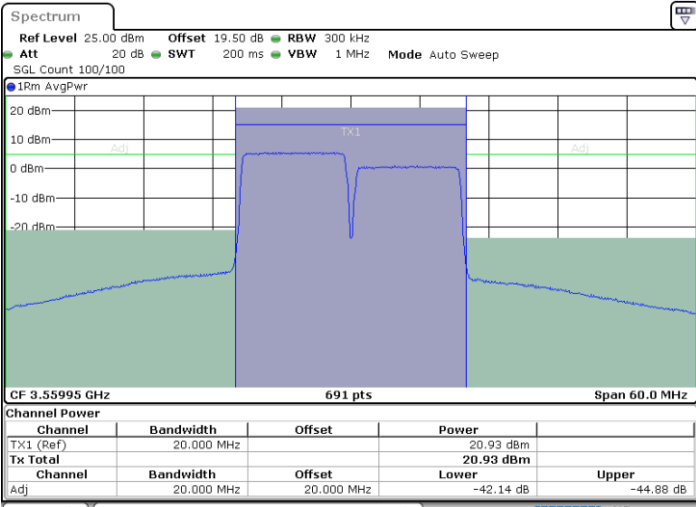


Date: 26.NOV.2024 18:02:20

Date: 26.NOV.2024 18:43:35

Lowest Channel / FullRB

N/A



Date: 26.NOV.2024 18:01:33

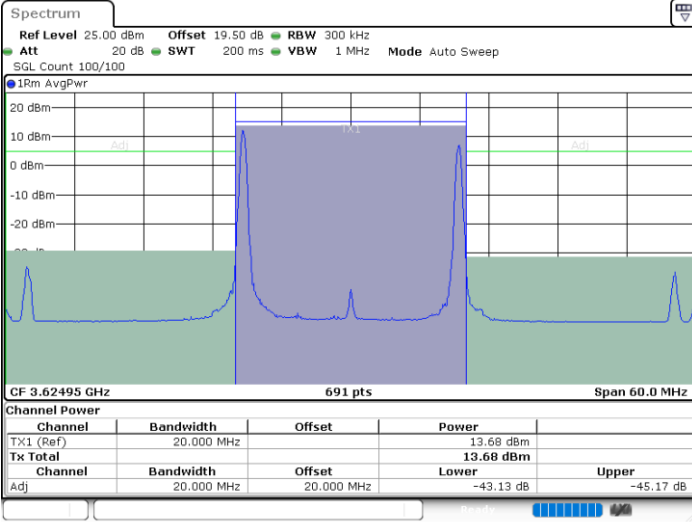


LTE Band 48B / 10MHz+10MHz

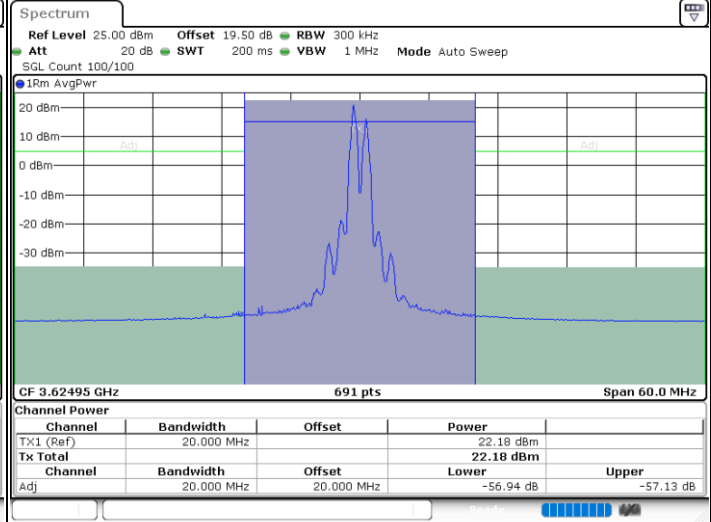
64QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



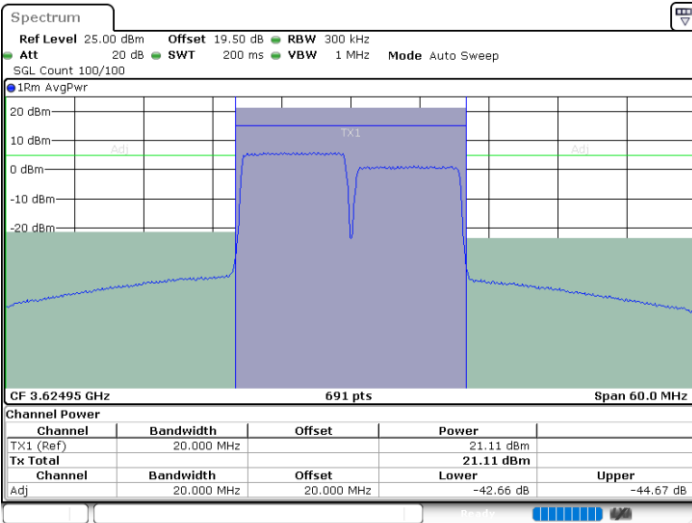
Date: 26.NOV.2024 17:55:19



Date: 26.NOV.2024 17:59:11

Middle Channel / FullIRB

N/A



Date: 26.NOV.2024 17:54:33

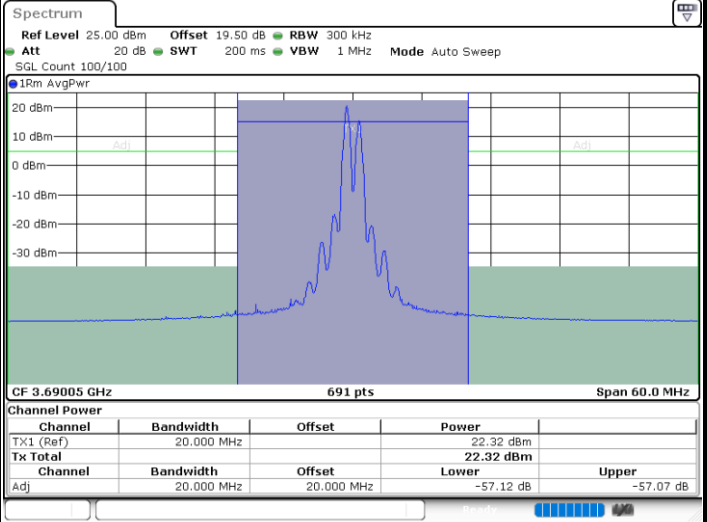
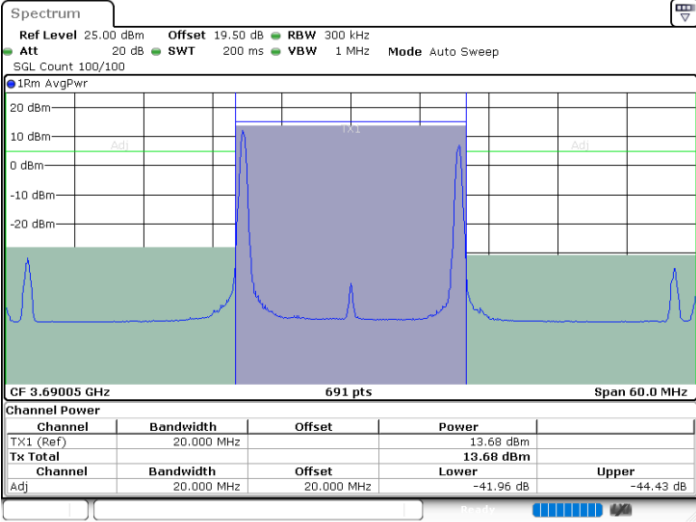


LTE Band 48B / 10MHz+10MHz

64QAM

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0

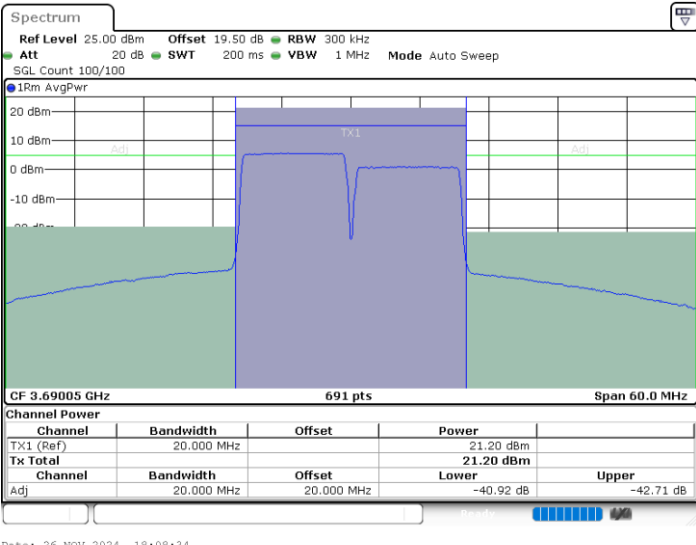


Date: 26.NOV.2024 18:45:32

Date: 26.NOV.2024 18:11:39

Highest Channel / FullRB

N/A



Date: 26.NOV.2024 18:08:34



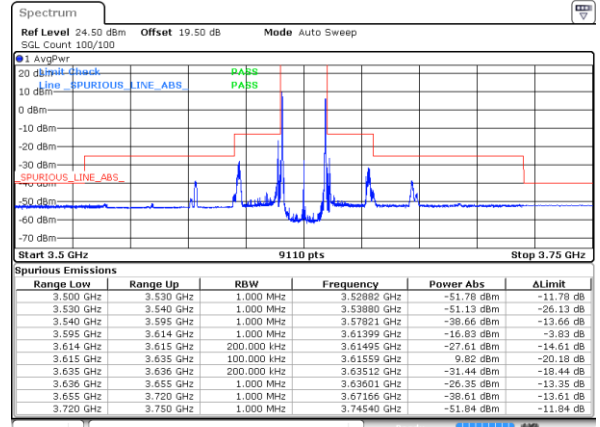
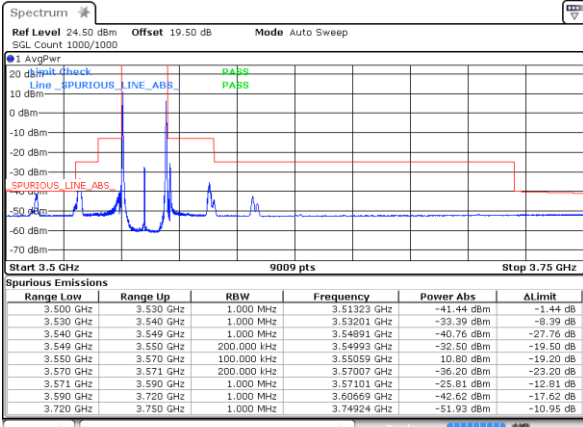
Conducted Band Edge

LTE Band 48B / 10MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

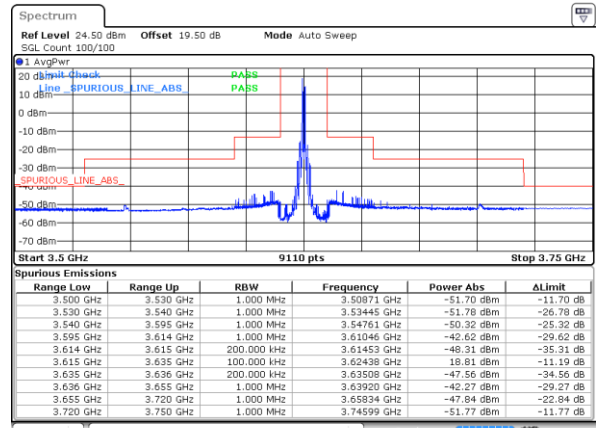
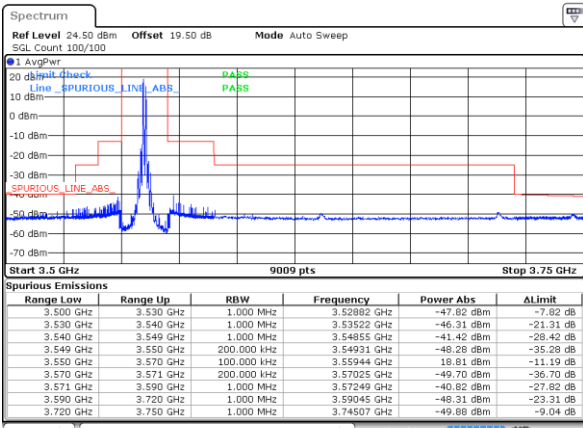


Date: 14 NOV 2024 09:22:51

Date: 14 NOV 2024 08:52:11

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

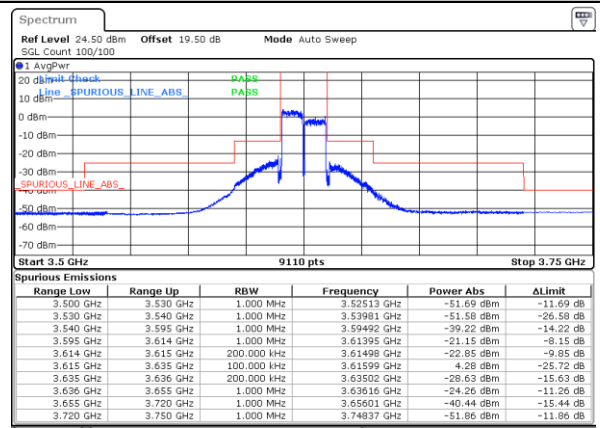
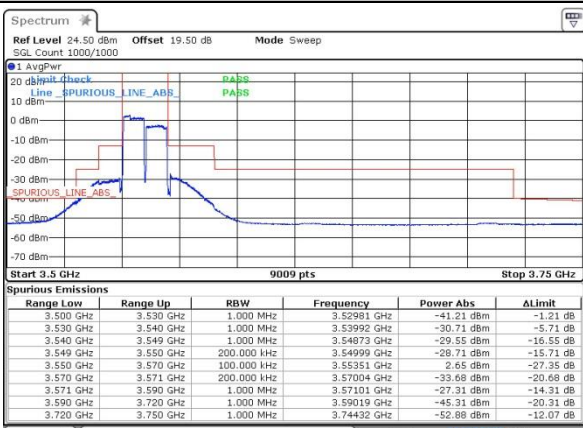


Date: 14 NOV 2024 09:00:40

Date: 14 NOV 2024 08:51:28

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 21 NOV 2024 14:33:49

Date: 14 NOV 2024 08:55:43

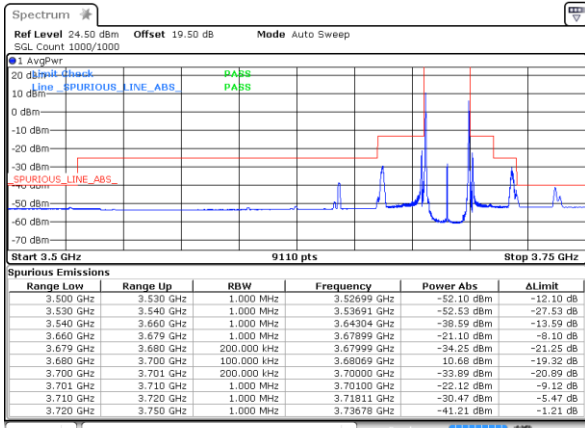


LTE Band 48B / 10MHz+10MHz

QPSK

Highest Band Edge / 1RB0 and 1RB49

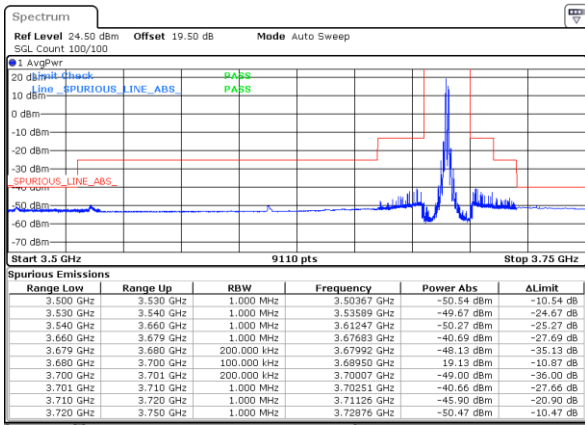
N/A



Date: 14 NOV 2024 09:40:19

Highest Band Edge / 1RB49 and 1RB0

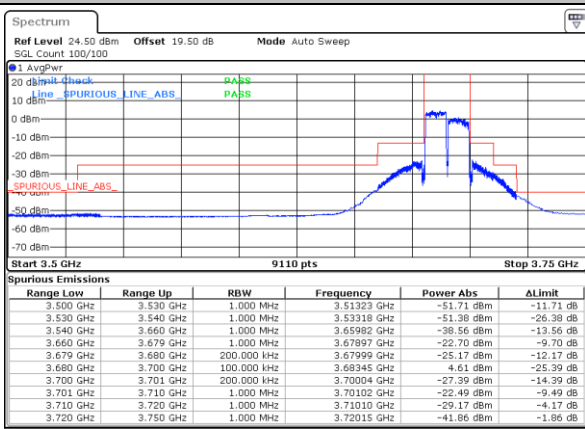
N/A



Date: 14 NOV 2024 09:02:50

Highest Band Edge / Full RB

N/A



Date: 14 NOV 2024 09:07:06

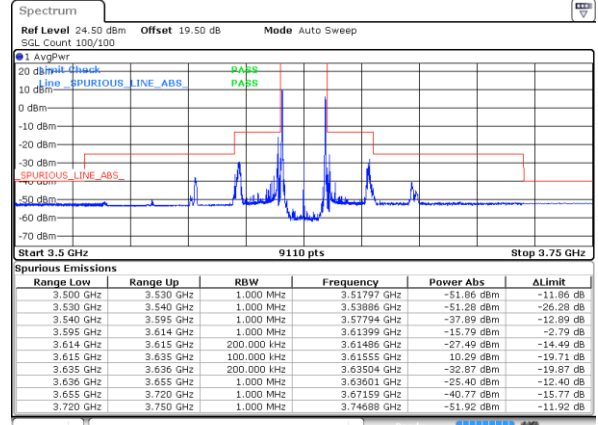
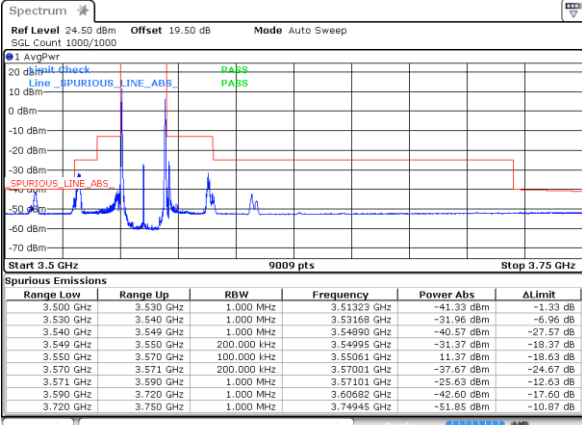


LTE Band 48B / 10MHz+10MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

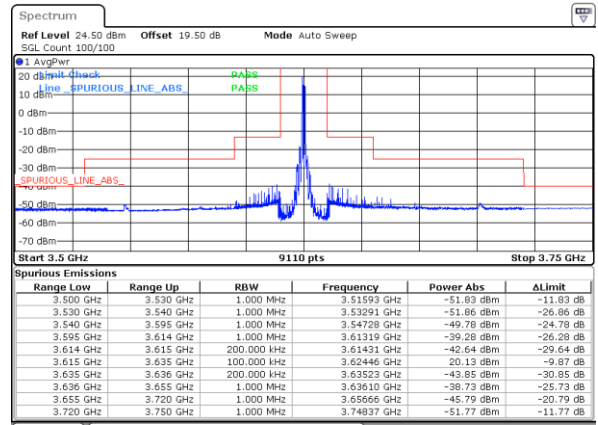
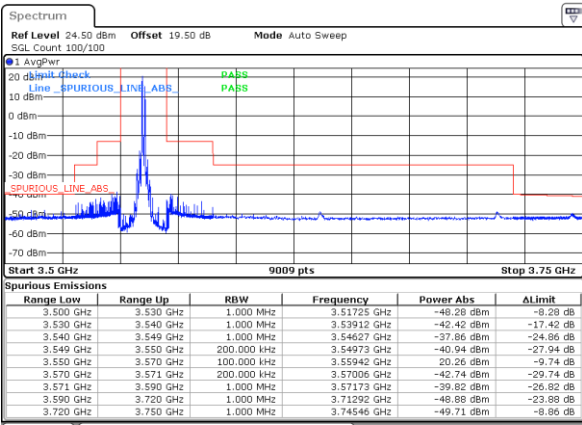


Date: 14 NOV 2024 09:18:35

Date: 14 NOV 2024 08:52:53

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

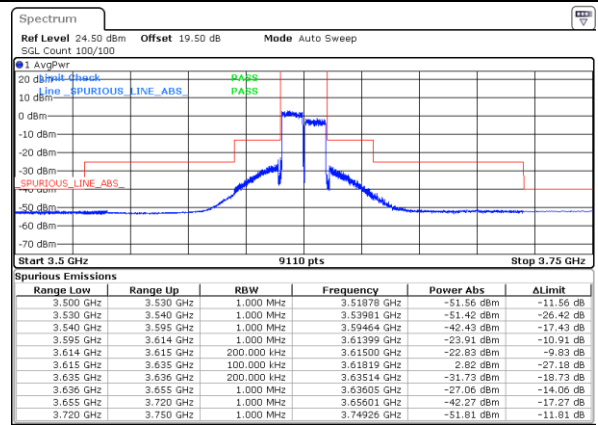
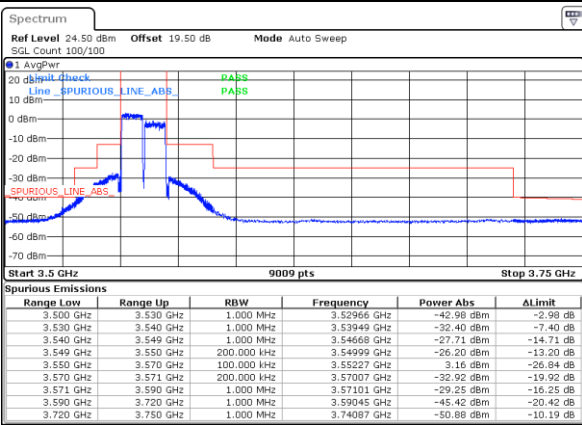


Date: 14 NOV 2024 09:01:22

Date: 14 NOV 2024 08:50:46

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 14 NOV 2024 08:57:08

Date: 14 NOV 2024 08:55:01

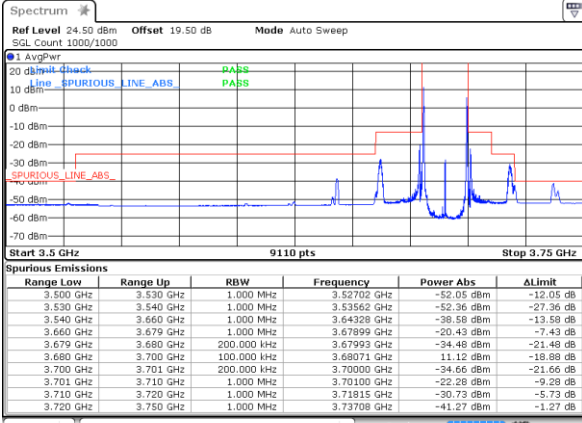


LTE Band 48B / 10MHz+10MHz

16QAM

Highest Band Edge / 1RB0 and 1RB49

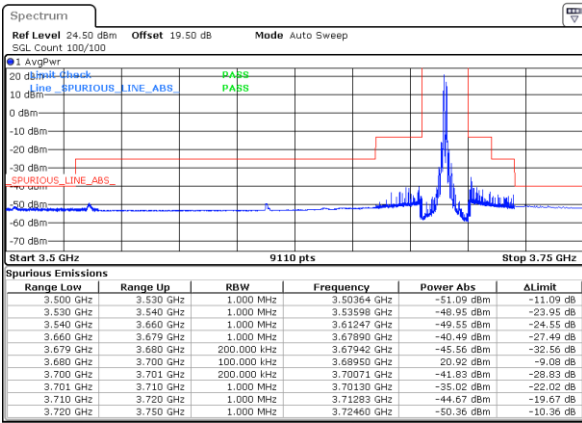
N/A



Date: 14 NOV 2024 09:33:13

Highest Band Edge / 1RB49 and 1RB0

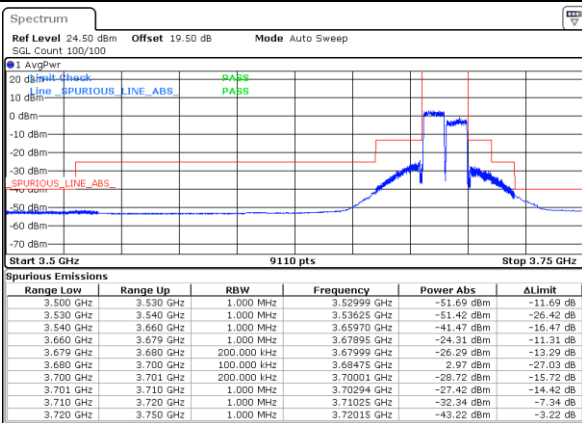
N/A



Date: 14 NOV 2024 09:03:33

Highest Band Edge / Full RB

N/A



Date: 14 NOV 2024 09:07:48

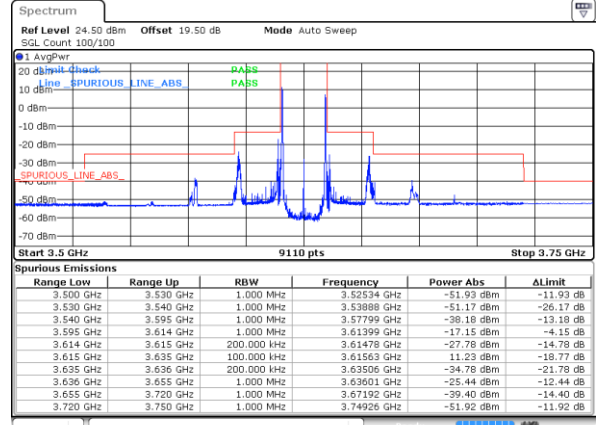
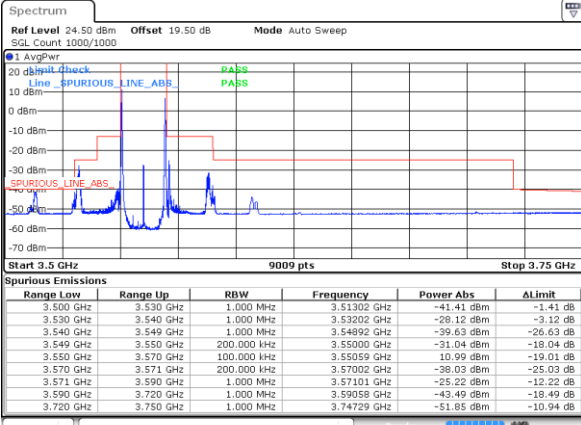


LTE Band 48B / 10MHz+10MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

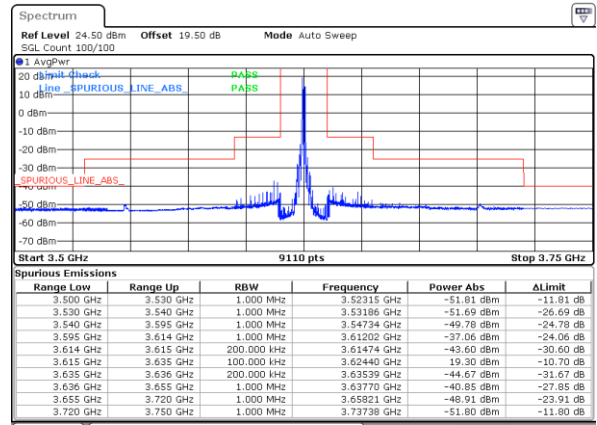
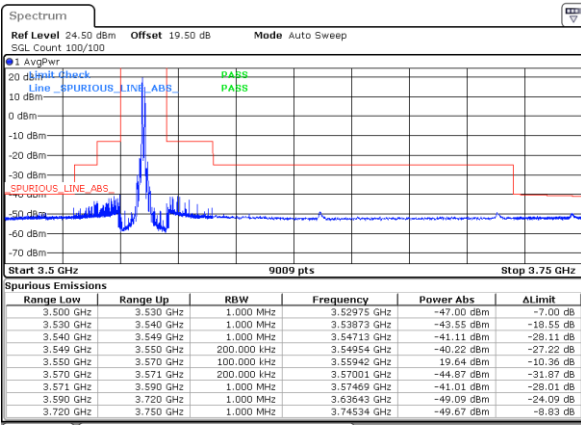


Date: 14 NOV 2024 09:20:31

Date: 14 NOV 2024 08:53:35

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

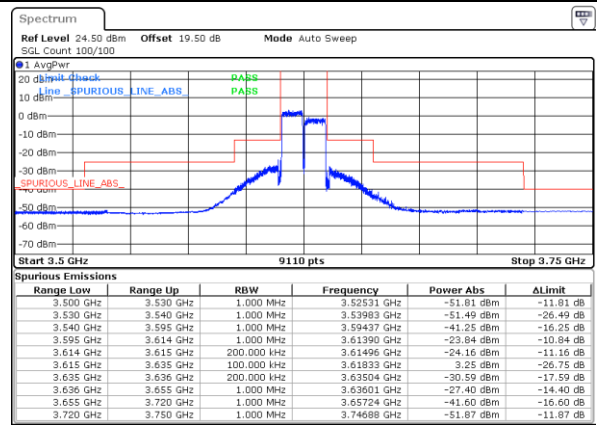
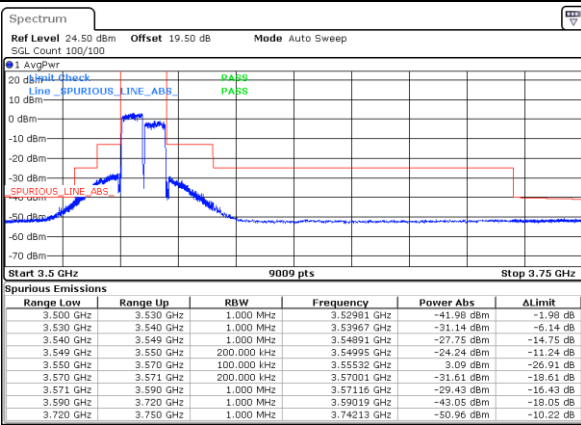


Date: 14 NOV 2024 09:02:04

Date: 14 NOV 2024 08:50:04

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 14 NOV 2024 09:23:50

Date: 14 NOV 2024 08:54:18

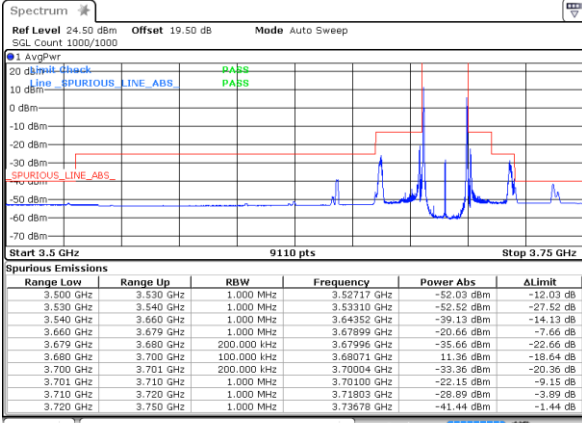


LTE Band 48B / 10MHz+10MHz

64QAM

Highest Band Edge / 1RB0 and 1RB49

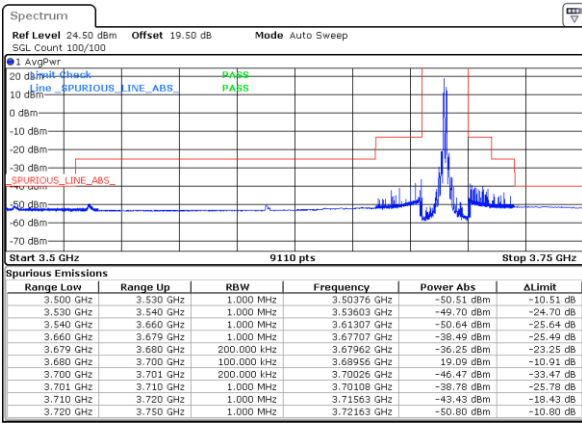
N/A



Date: 14 NOV 2024 09:35:42

Highest Band Edge / 1RB49 and 1RB0

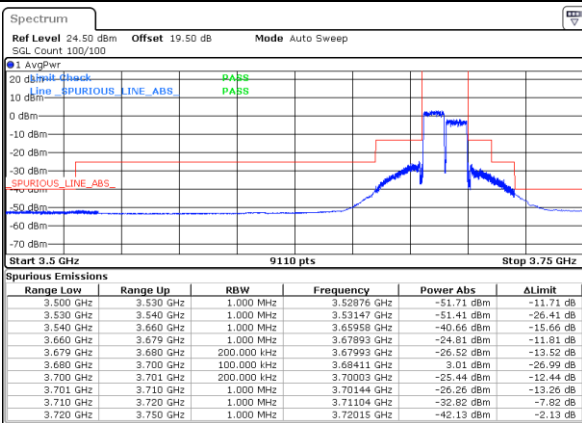
N/A



Date: 14 NOV 2024 09:04:15

Highest Band Edge / Full RB

N/A



Date: 14 NOV 2024 09:06:31



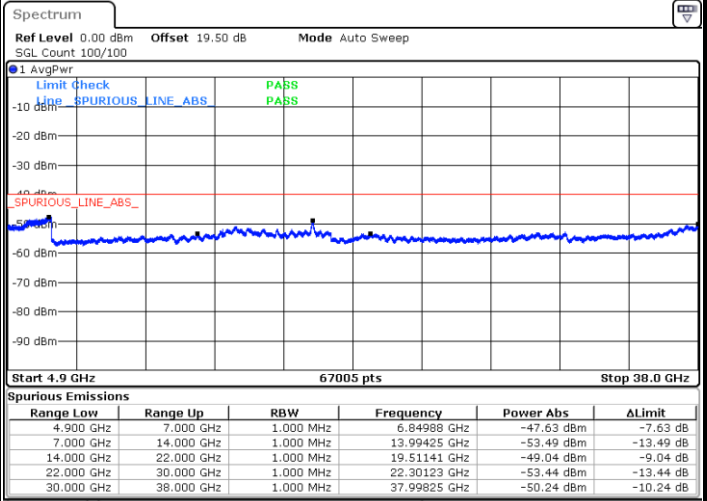
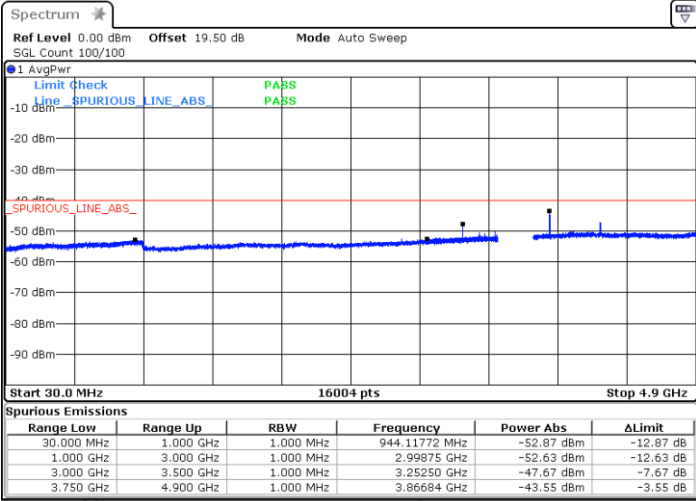
Conducted Spurious Emission

LTE Band 48B / 10MHz+10MHz

QPSK

Lowest Channel / 1RB49 and 1RB0

Lowest Channel / 1RB49 and 1RB0

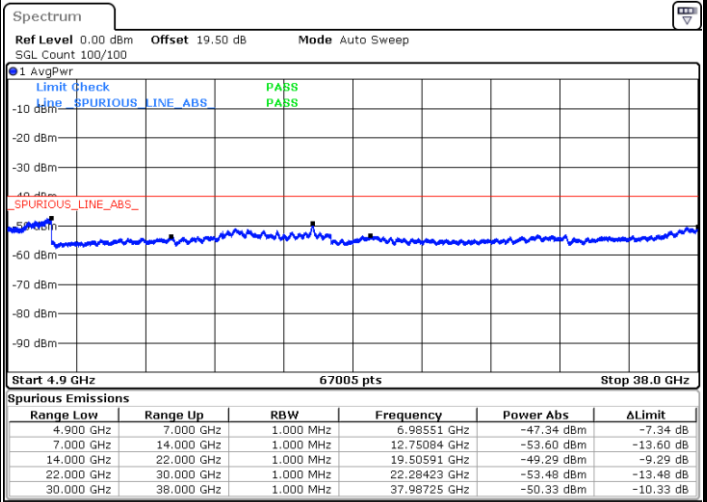
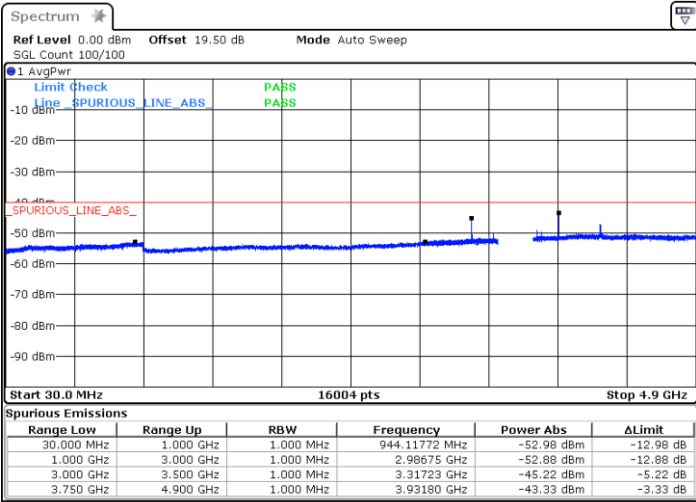


Date: 14.NOV.2024 09:55:39

Date: 14.NOV.2024 09:57:30

Middle Channel / 1RB49 and 1RB0

Middle Channel / 1RB49 and 1RB0



Date: 14.NOV.2024 10:00:34

Date: 14.NOV.2024 09:59:01

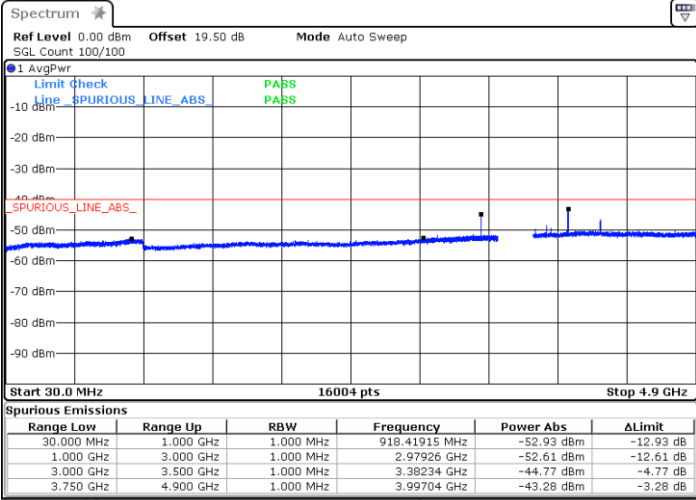


LTE Band 48B / 10MHz+10MHz

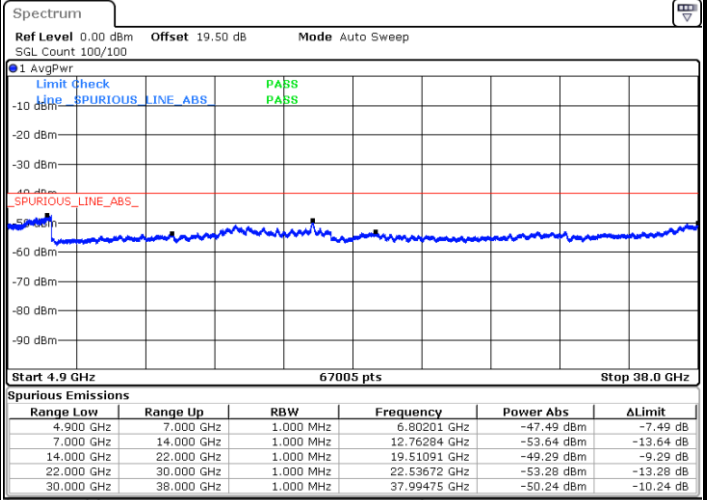
QPSK

Highest Channel / 1RB49 and 1RB0

Highest Channel / 1RB49 and 1RB0



Date: 14.NOV.2024 10:02:54



Date: 14.NOV.2024 10:07:00



LTE Band 48C

26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.98	29.97	35.04	25.28
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.97	40.28	-

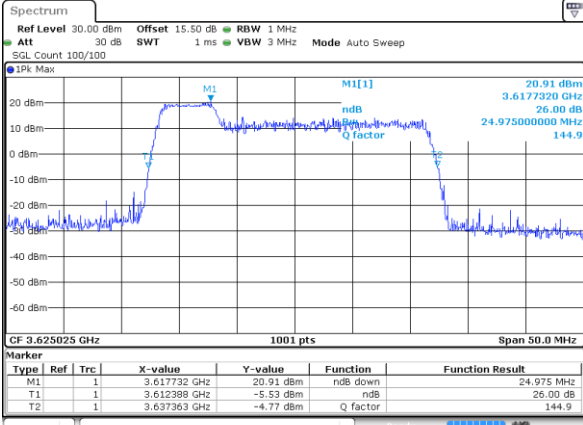
Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.88	29.91	34.97	25.03
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.97	40.04	-



LTE Band 48C

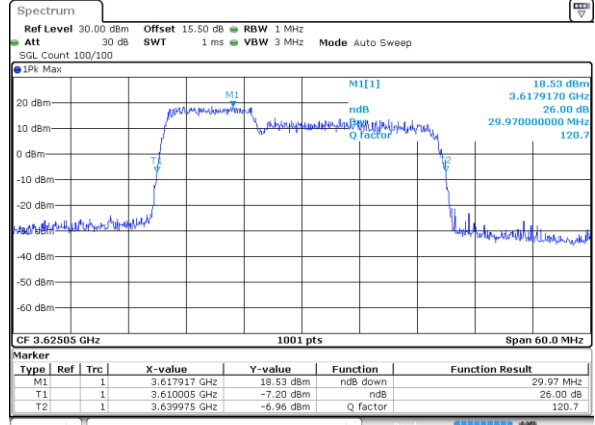
QPSK

Middle Channel / 5MHz+20MHz



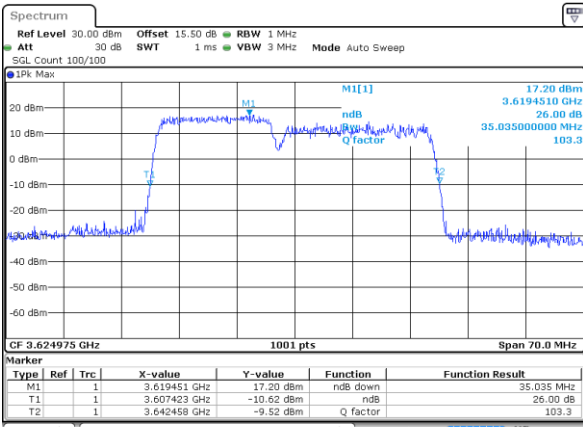
Date: 14 NOV 2024 10:18:37

Middle Channel / 10MHz+20MHz



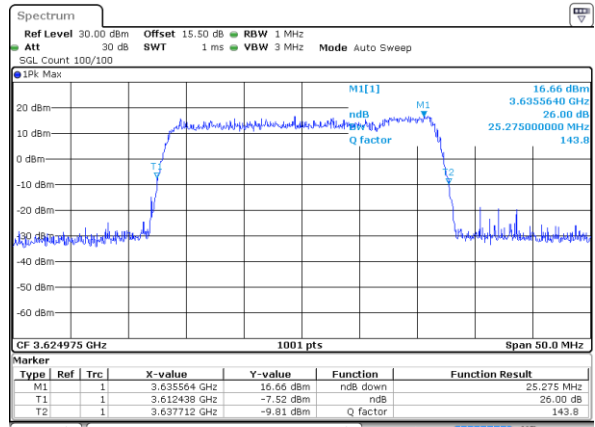
Date: 14 NOV 2024 10:56:08

Middle Channel / 15MHz+20MHz



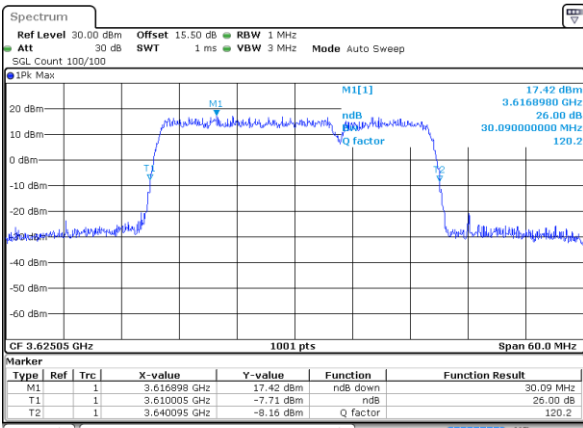
Date: 14 NOV 2024 11:35:38

Middle Channel / 20MHz+5MHz



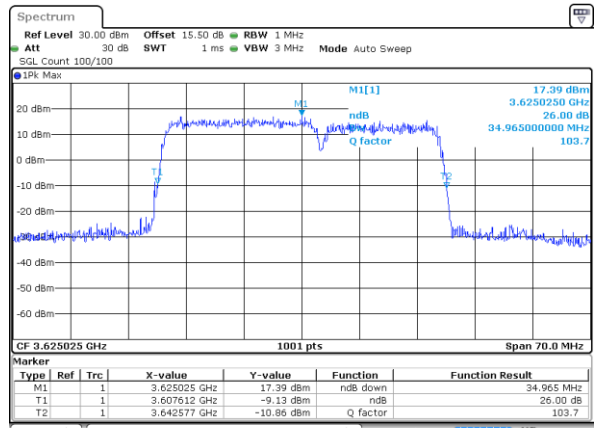
Date: 15 NOV 2024 10:37:26

Middle Channel / 20MHz+10MHz



Date: 14 NOV 2024 11:15:52

Middle Channel / 20MHz+15MHz



Date: 14 NOV 2024 11:55:24

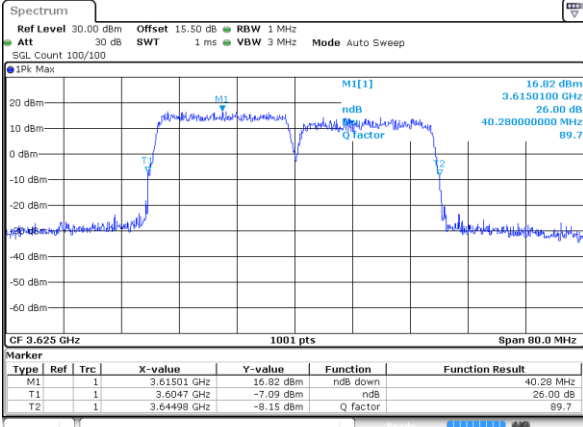


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



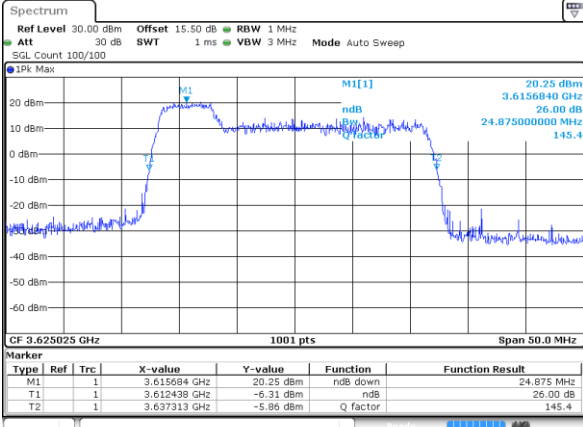
Date: 14 NOV 2024 12:15:03



LTE Band 48C

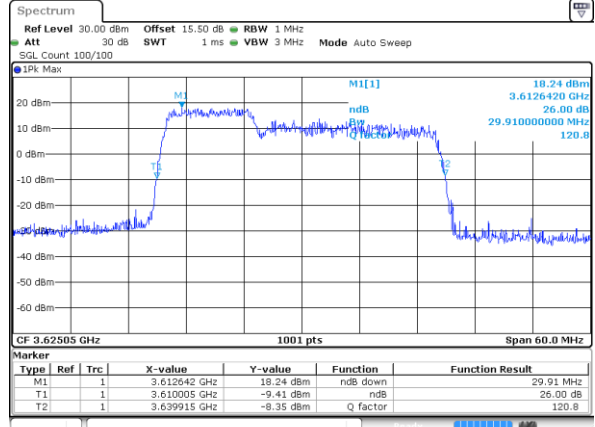
16QAM

Middle Channel / 5MHz+20MHz



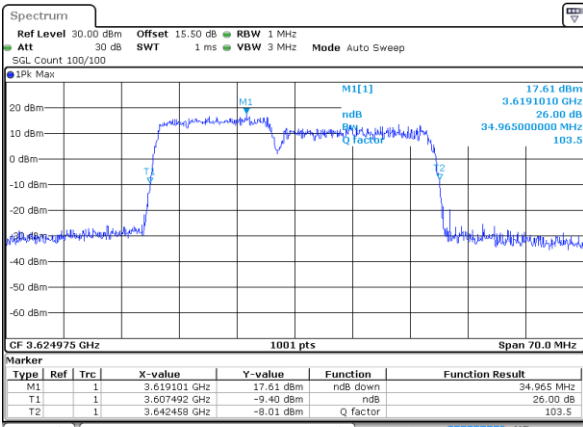
Date: 14 NOV 2024 10:19:06

Middle Channel / 10MHz+20MHz



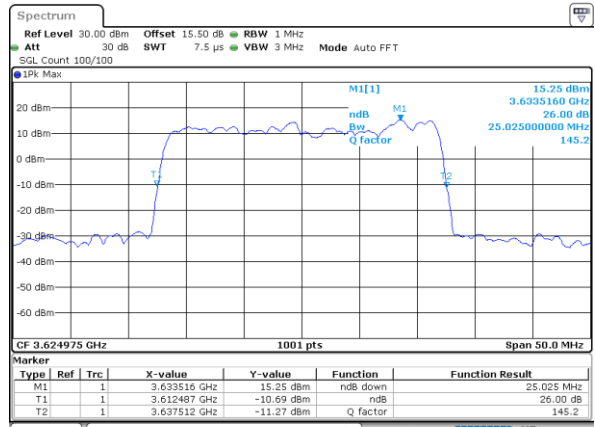
Date: 14 NOV 2024 10:56:37

Middle Channel / 15MHz+20MHz



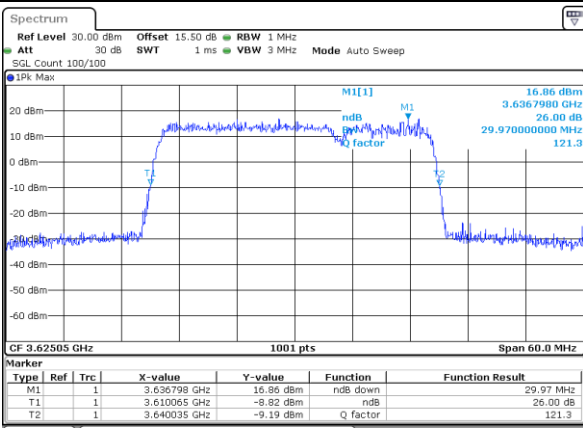
Date: 14 NOV 2024 11:36:08

Middle Channel / 20MHz+5MHz



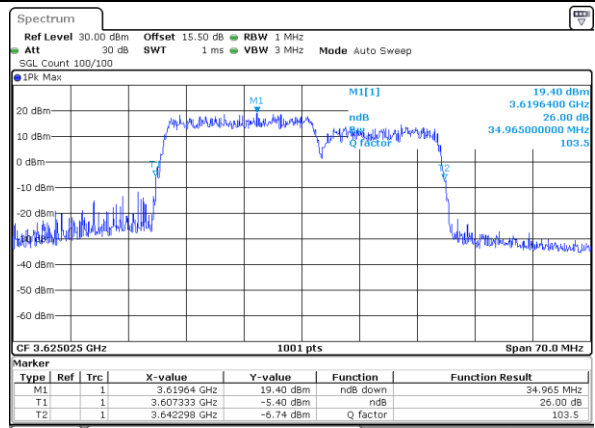
Date: 23 NOV 2024 13:04:50

Middle Channel / 20MHz+10MHz



Date: 14 NOV 2024 11:16:22

Middle Channel / 20MHz+15MHz



Date: 14 NOV 2024 11:55:53

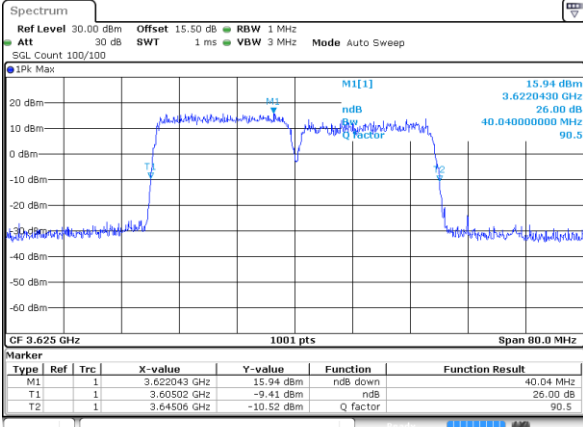


LTE Band 48C

16QAM

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	23.33	27.99	32.80	23.33
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.17	32.73	37.56	-

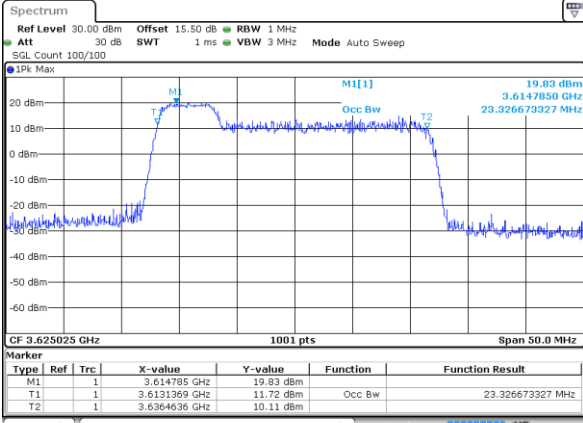
Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.18	27.99	32.73	23.33
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.87	37.56	-



LTE Band 48C

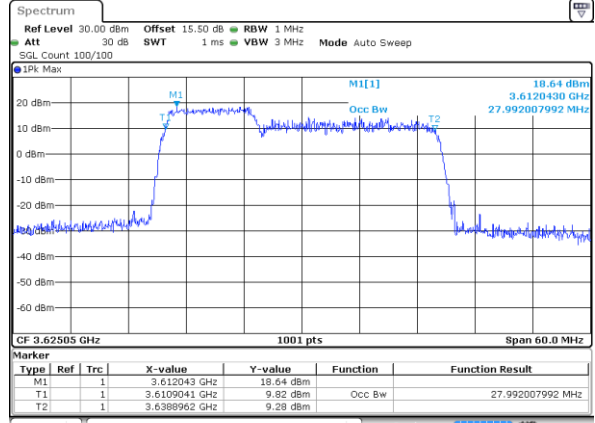
QPSK

Middle Channel / 5MHz+20MHz



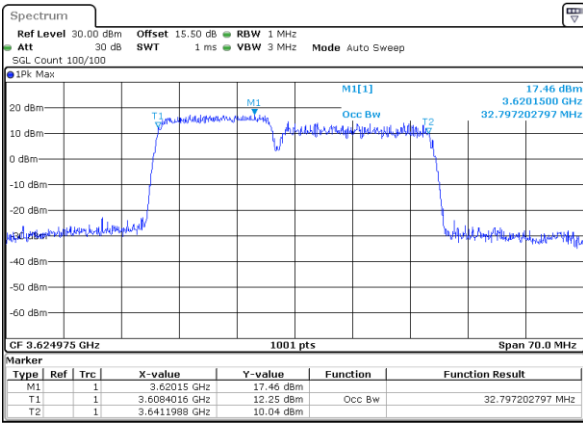
Date: 14 NOV 2024 10:18:07

Middle Channel / 10MHz+20MHz



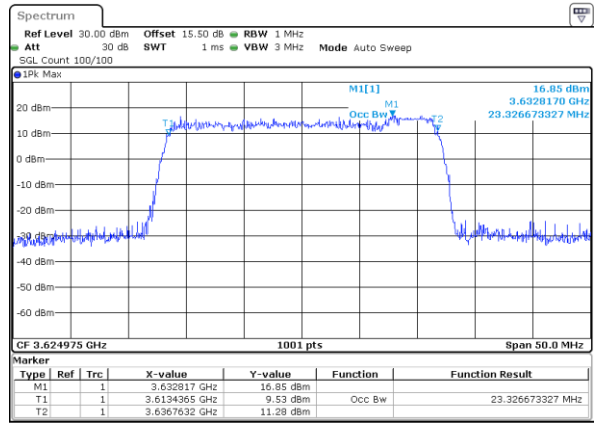
Date: 14 NOV 2024 10:55:38

Middle Channel / 15MHz+20MHz



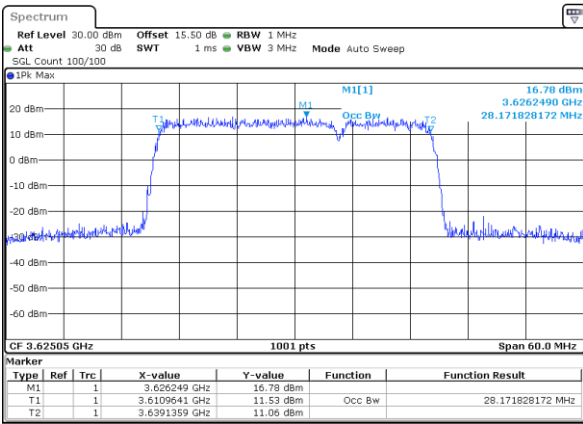
Date: 14 NOV 2024 11:35:09

Middle Channel / 20MHz+5MHz



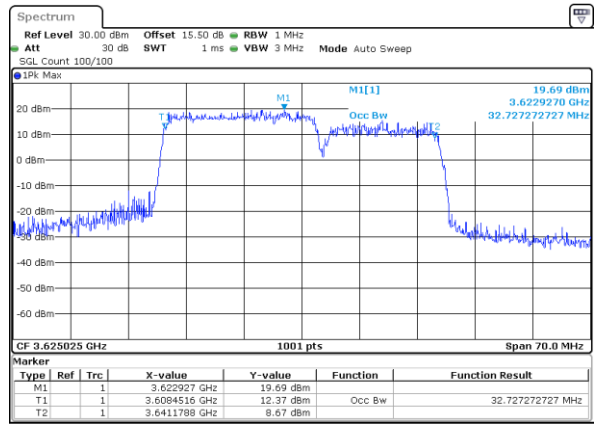
Date: 15 NOV 2024 09:39:33

Middle Channel / 20MHz+10MHz



Date: 14 NOV 2024 11:15:23

Middle Channel / 20MHz+15MHz



Date: 14 NOV 2024 11:54:54

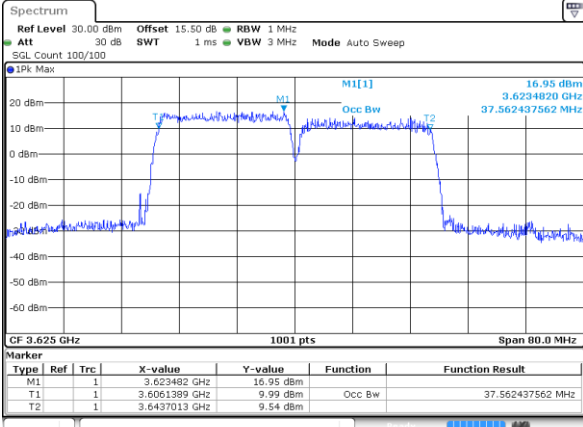


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



Date: 14 NOV 2024 12:14:35