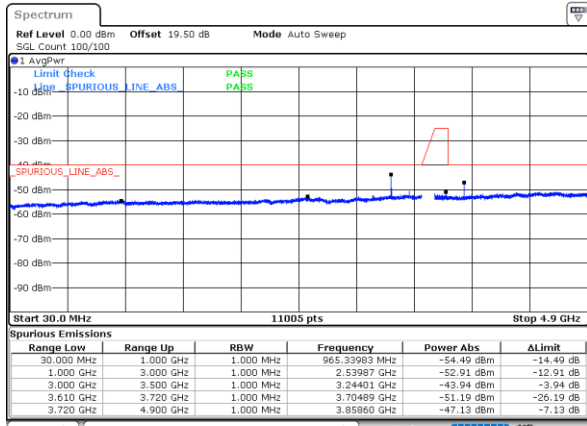


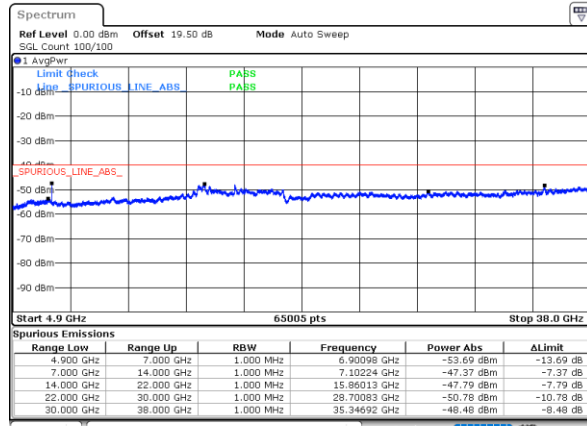


LTE Band 48 / 20MHz

Lowest Channel / QPSK

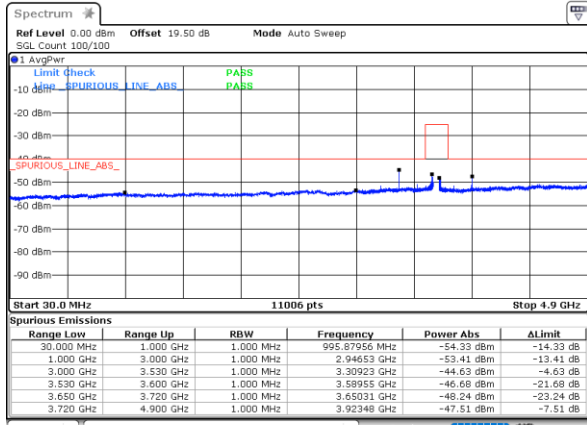


Date: 26.FEB.2024 15:33:52

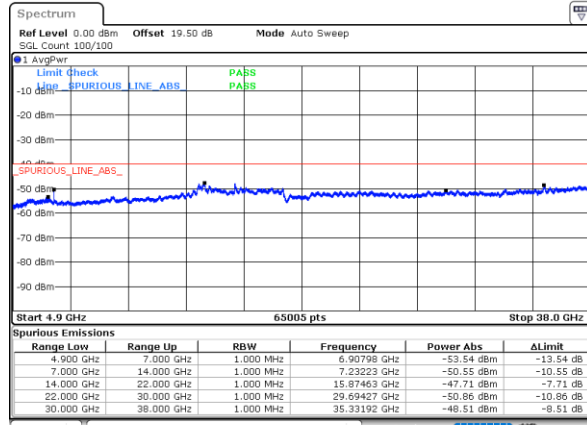


Date: 26.FEB.2024 16:55:51

Middle Channel / QPSK

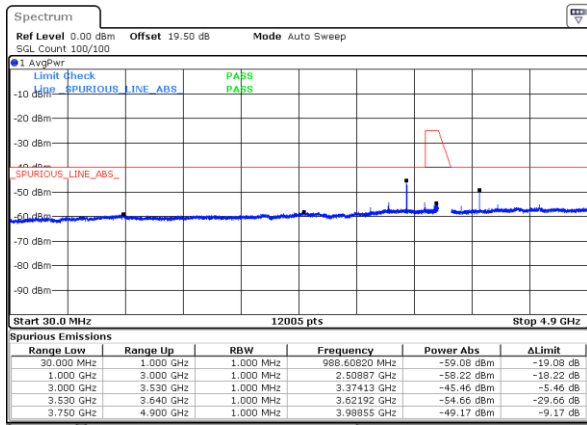


Date: 26.FEB.2024 15:32:30

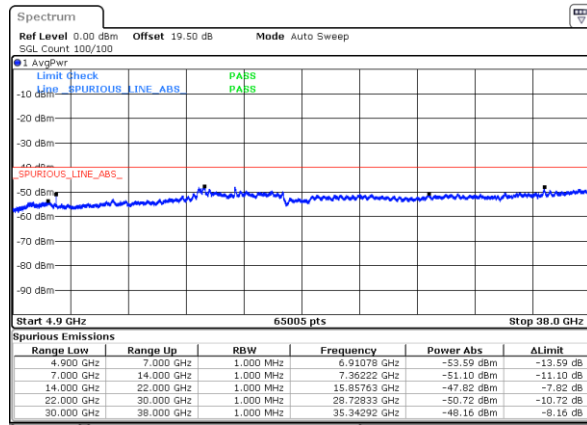


Date: 26.FEB.2024 16:57:41

Highest Channel / QPSK



Date: 26.FEB.2024 15:17:15



Date: 26.FEB.2024 16:59:14



### 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	0.0001	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

**Note:**

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band CA\_48C

## 26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.83	29.97	34.76	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	35.11	39.96	-

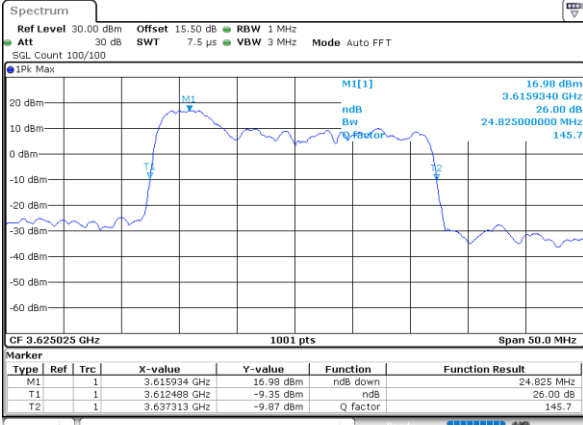
Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.58	30.09	34.83	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.97	40.20	-



LTE Band 48C

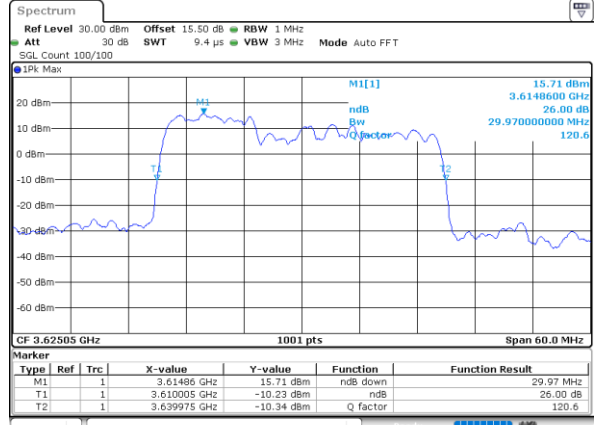
QPSK

Middle Channel / 5MHz+20MHz



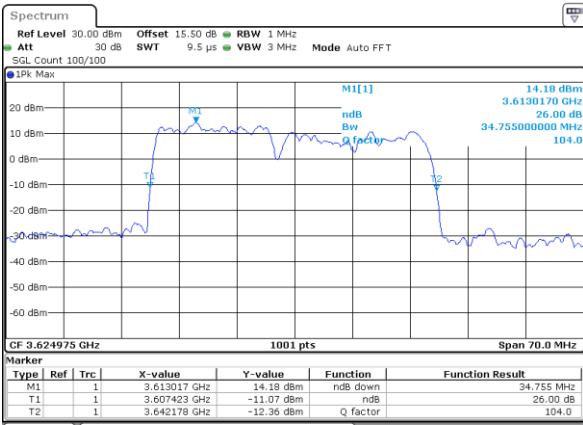
Date: 6.FEB.2024 11:33:50

Middle Channel / 10MHz+20MHz



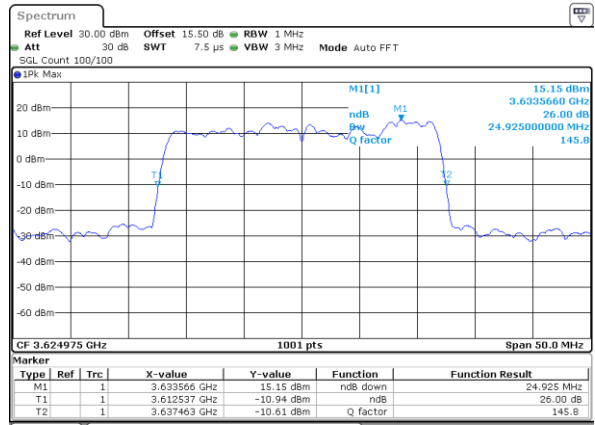
Date: 6.FEB.2024 13:05:41

Middle Channel / 15MHz+20MHz



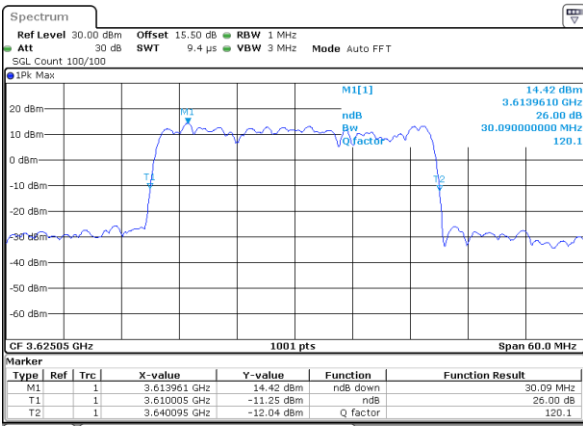
Date: 6.FEB.2024 14:35:23

Middle Channel / 20MHz+5MHz



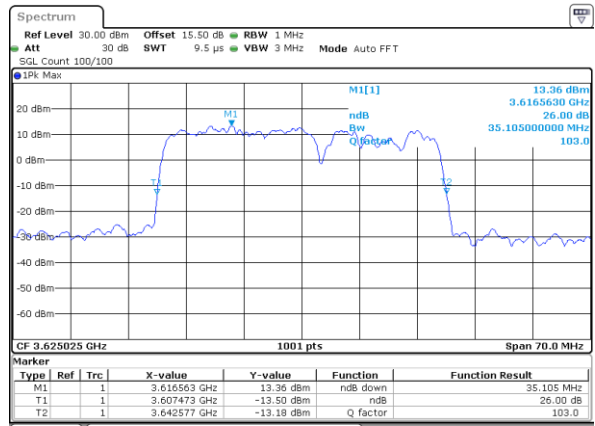
Date: 6.FEB.2024 12:20:02

Middle Channel / 20MHz+10MHz



Date: 6.FEB.2024 13:50:41

Middle Channel / 20MHz+15MHz



Date: 6.FEB.2024 15:20:09

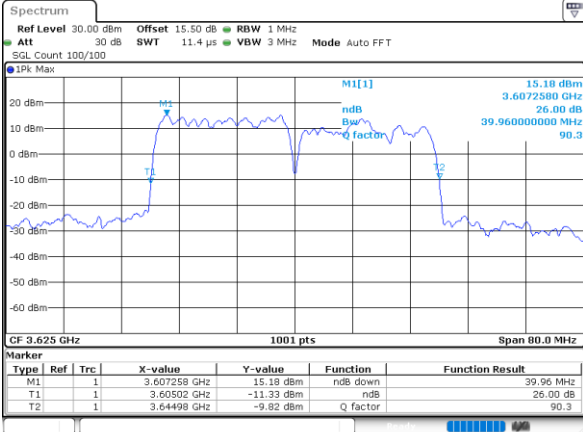


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

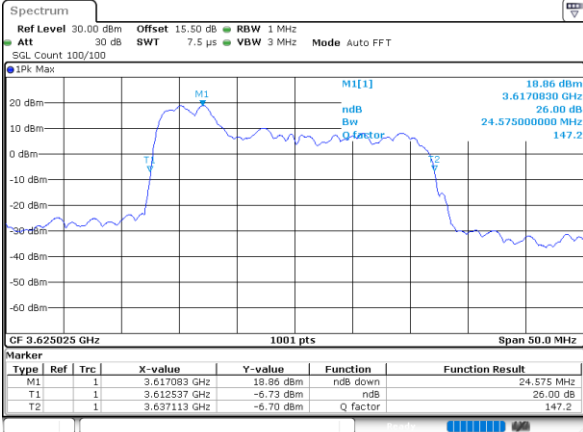




LTE Band 48C

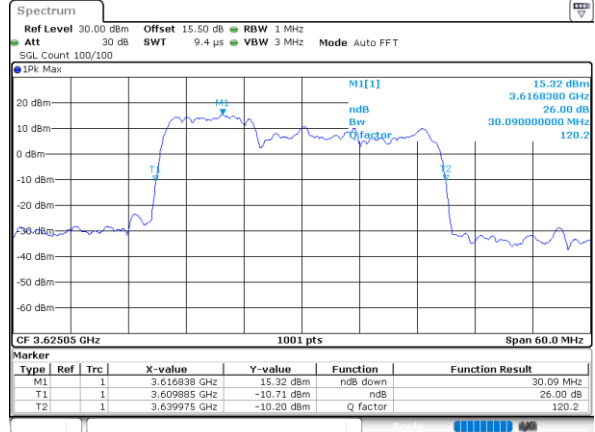
16QAM

Middle Channel / 5MHz+20MHz



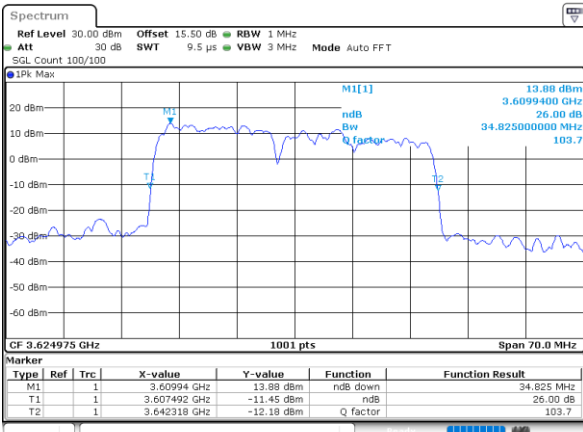
Date: 6.FEB.2024 11:34:21

Middle Channel / 10MHz+20MHz



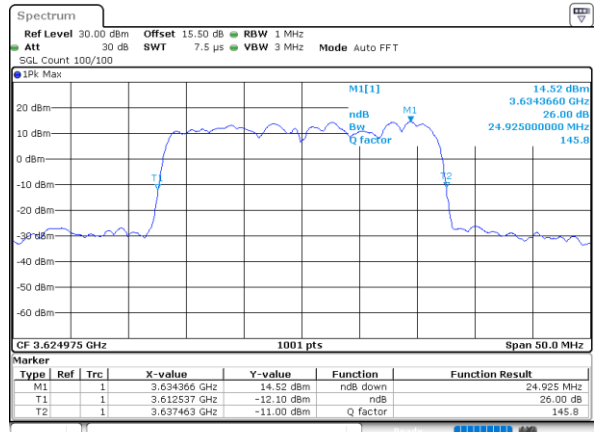
Date: 6.FEB.2024 13:06:12

Middle Channel / 15MHz+20MHz



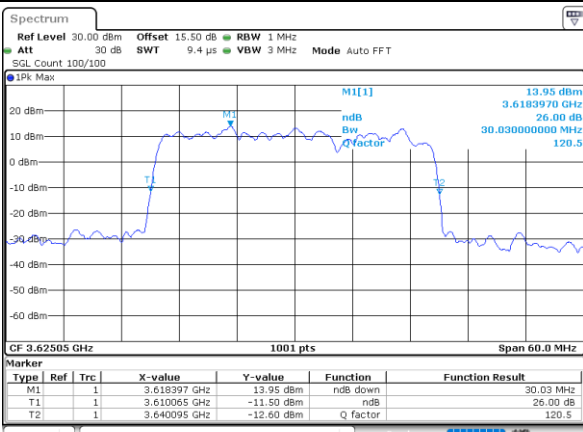
Date: 6.FEB.2024 14:35:54

Middle Channel / 20MHz+5MHz



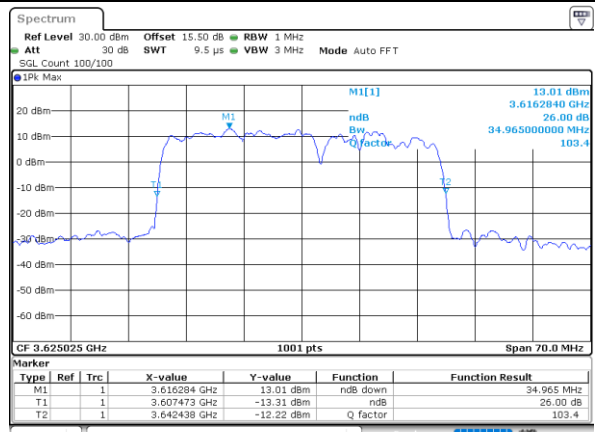
Date: 6.FEB.2024 12:20:33

Middle Channel / 20MHz+10MHz



Date: 6.FEB.2024 13:51:13

Middle Channel / 20MHz+15MHz



Date: 6.FEB.2024 15:20:40

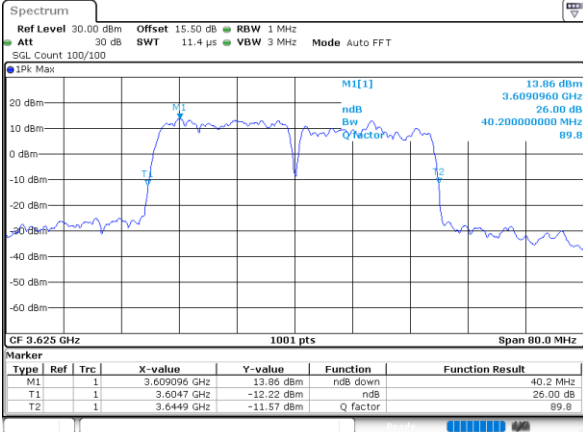


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 6.FEB.2024 16:05:23



### Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.08	27.93	32.87	23.23
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.66	37.96	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.08	27.99	32.73	23.23
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.81	32.94	37.88	-

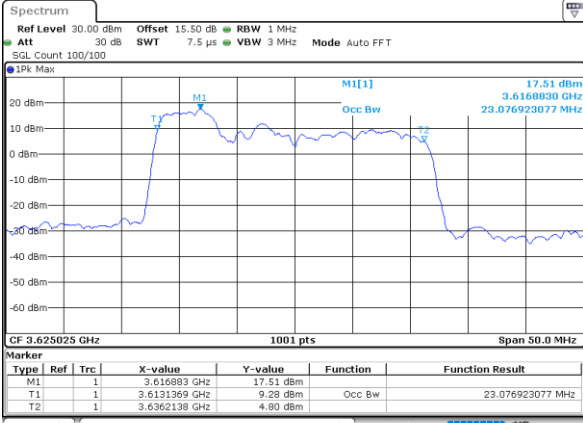




LTE Band 48C

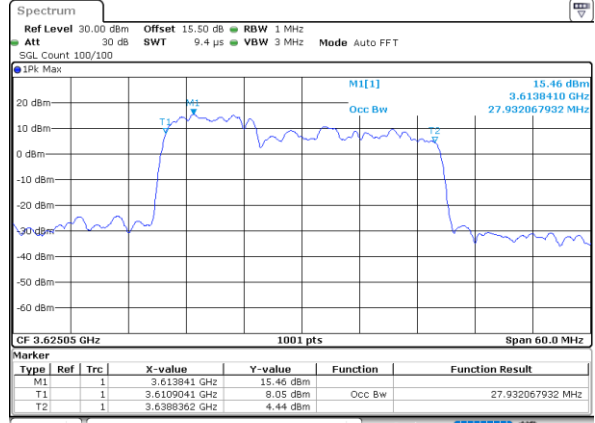
QPSK

Middle Channel / 5MHz+20MHz



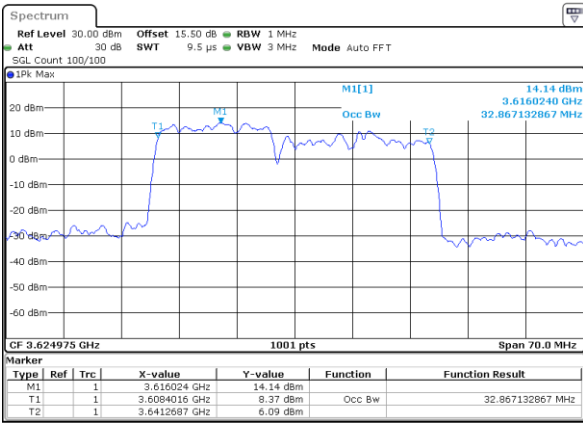
Date: 6.FEB.2024 11:33:18

Middle Channel / 10MHz+20MHz



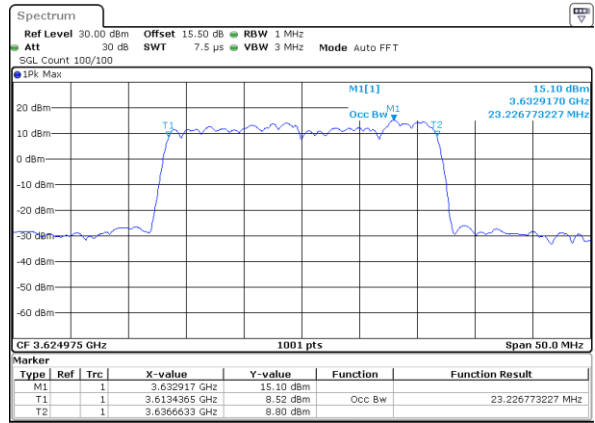
Date: 6.FEB.2024 13:05:10

Middle Channel / 15MHz+20MHz



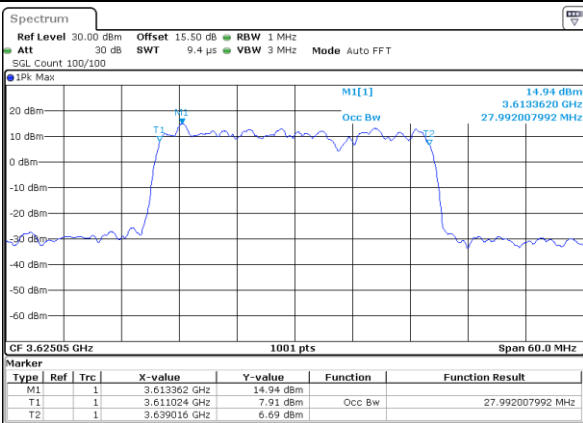
Date: 6.FEB.2024 14:34:52

Middle Channel / 20MHz+5MHz



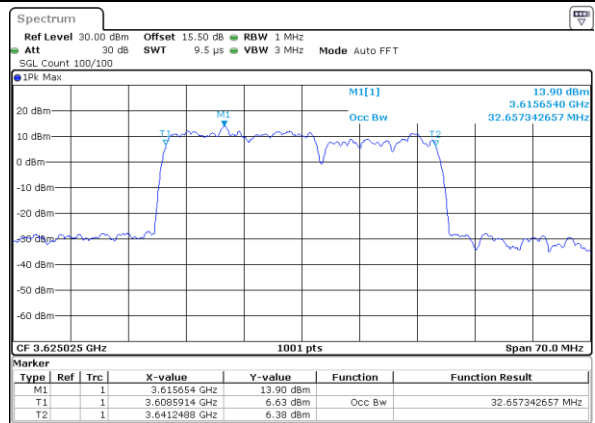
Date: 6.FEB.2024 12:19:30

Middle Channel / 20MHz+10MHz



Date: 6.FEB.2024 13:50:10

Middle Channel / 20MHz+15MHz



Date: 6.FEB.2024 15:19:38

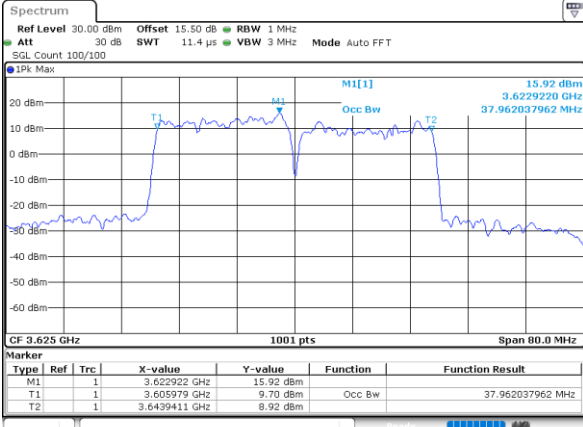


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



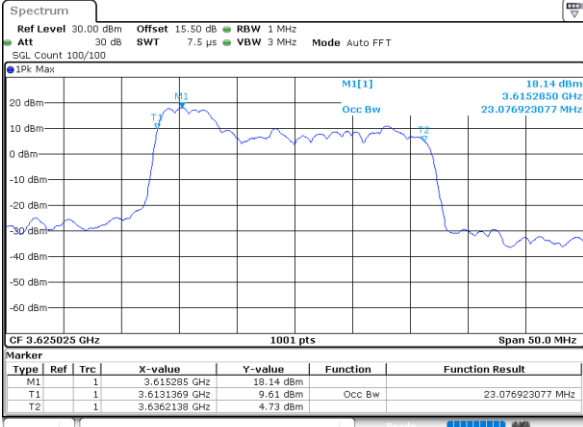
Date: 6.FEB.2024 16:10:24



LTE Band 48C

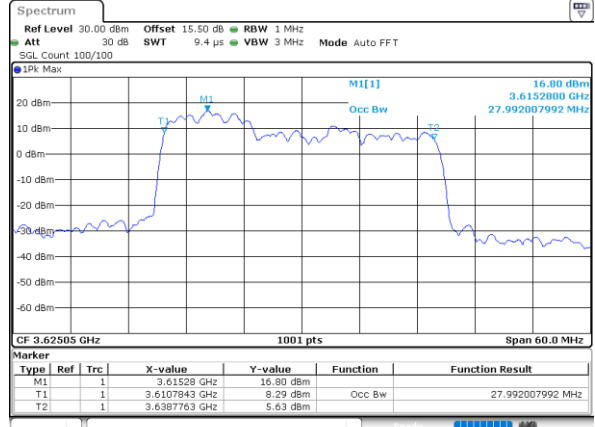
16QAM

Middle Channel / 5MHz+20MHz



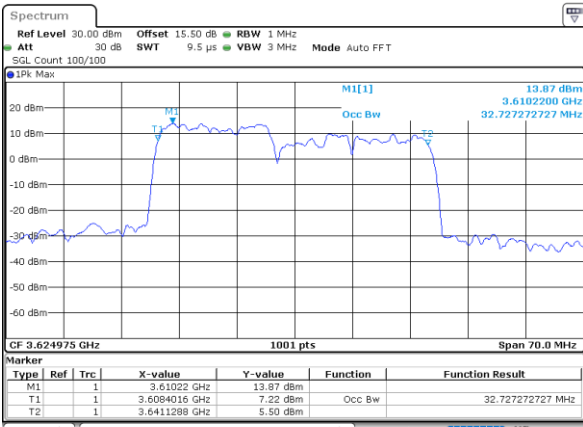
Date: 6.FEB.2024 11:34:52

Middle Channel / 10MHz+20MHz



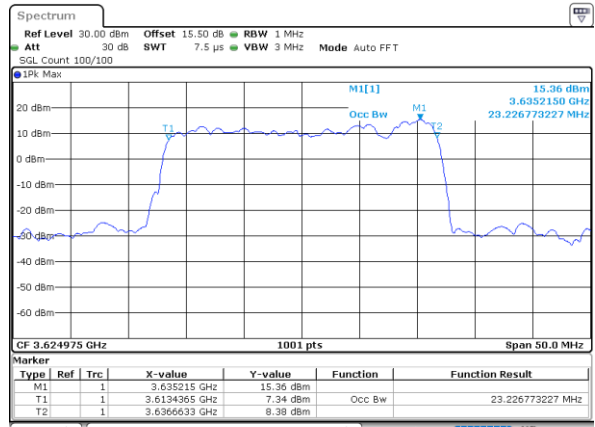
Date: 6.FEB.2024 13:06:43

Middle Channel / 15MHz+20MHz



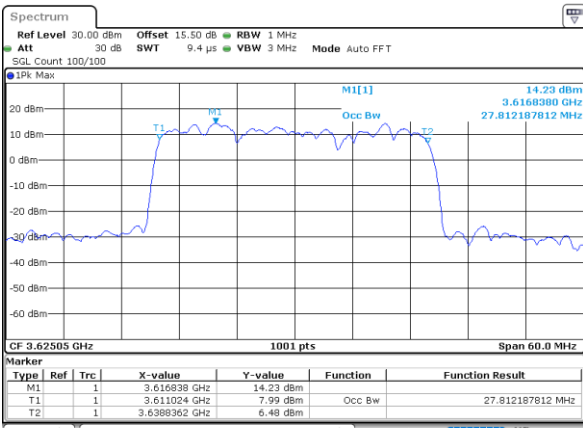
Date: 6.FEB.2024 14:36:26

Middle Channel / 20MHz+5MHz



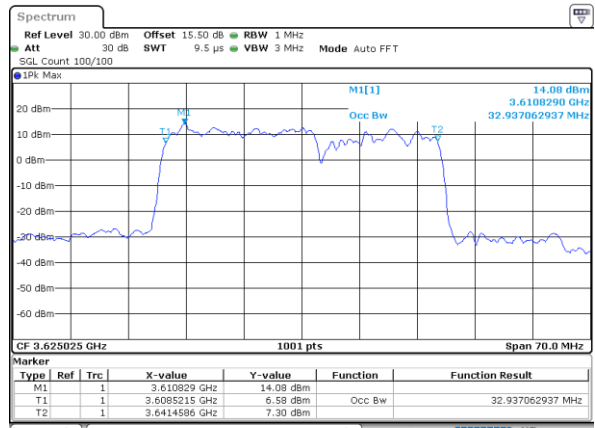
Date: 6.FEB.2024 12:21:04

Middle Channel / 20MHz+10MHz



Date: 6.FEB.2024 13:51:44

Middle Channel / 20MHz+15MHz



Date: 6.FEB.2024 15:21:11

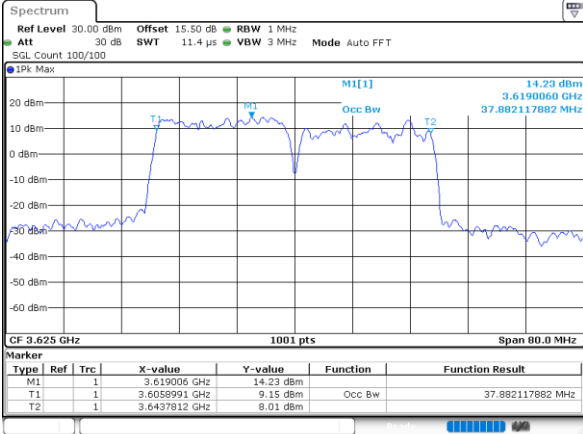


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 6.FEB.2024 16:05:52



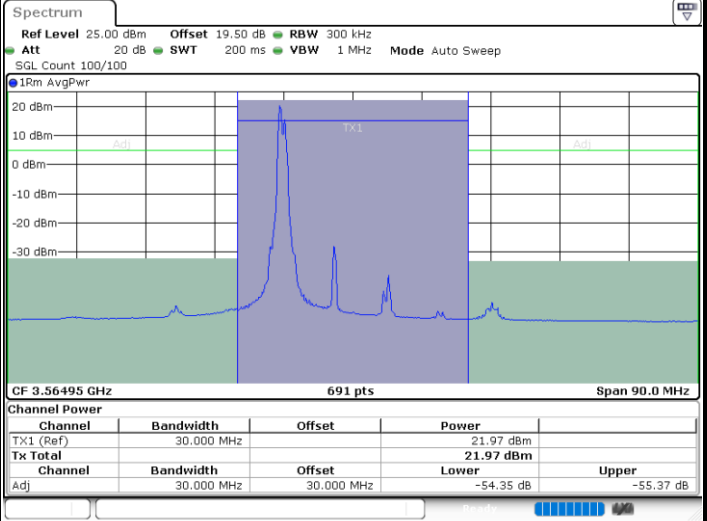
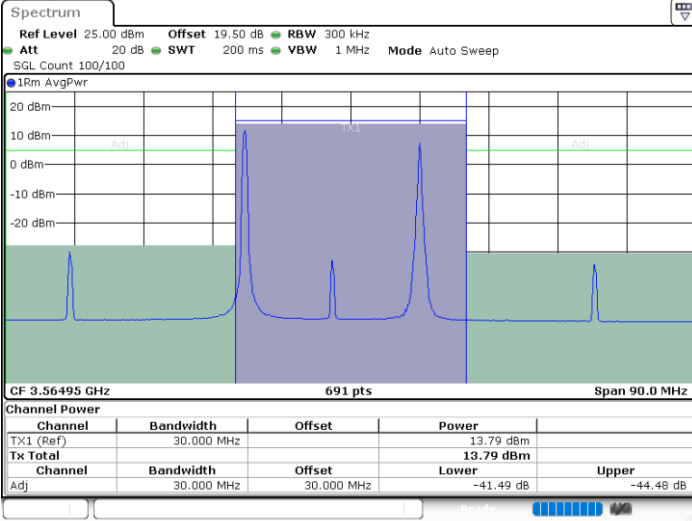
ACLR

LTE Band 48C / 5MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0

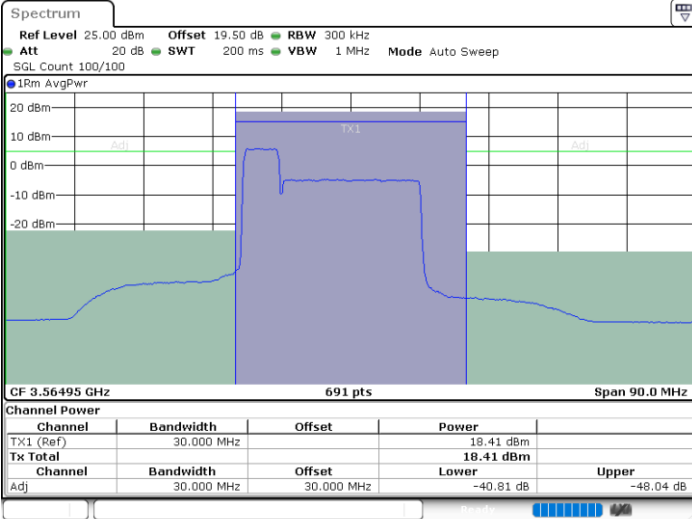


Date: 6.FEB.2024 11:59:14

Date: 6.FEB.2024 12:00:04

Lowest Channel / FullIRB

N/A



Date: 6.FEB.2024 11:55:00

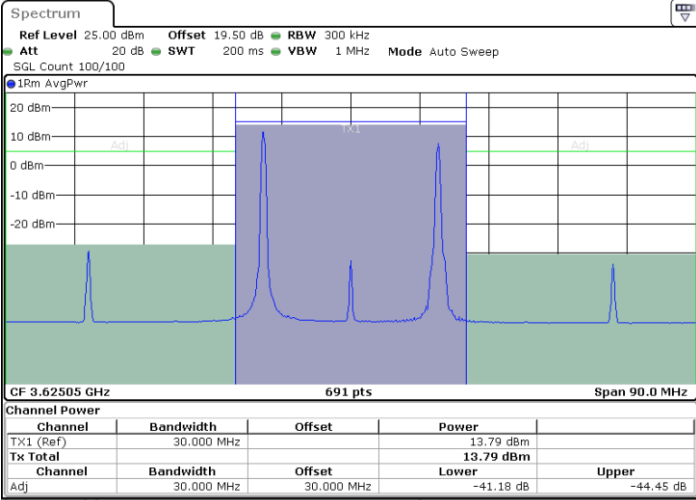


LTE Band 48C / 5MHz+20MHz

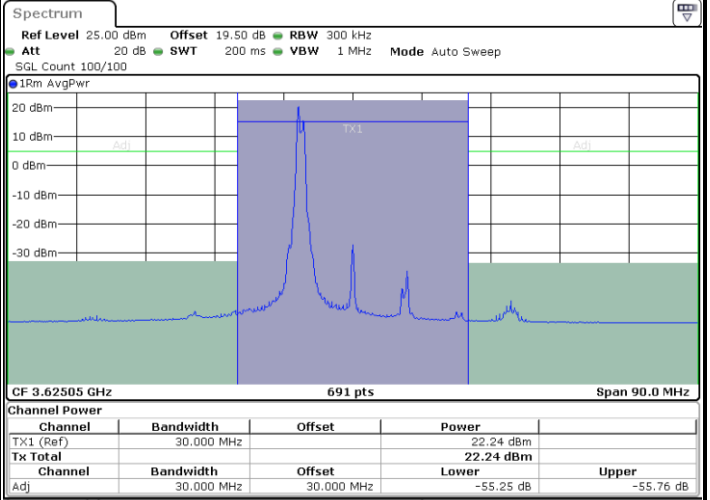
QPSK

Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB24 and 1RB0



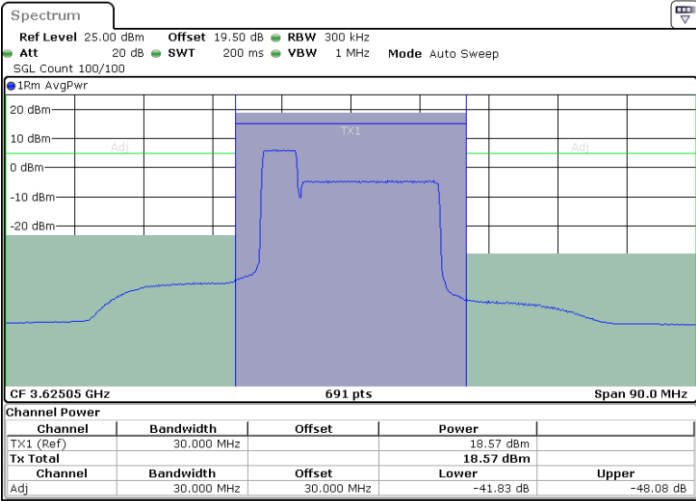
Date: 6.FEB.2024 11:41:38



Date: 6.FEB.2024 11:42:28

Middle Channel / FullIRB

N/A



Date: 6.FEB.2024 11:37:18

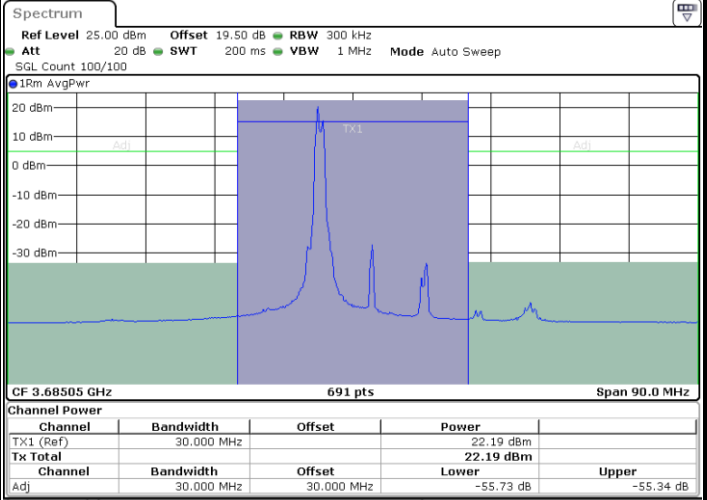
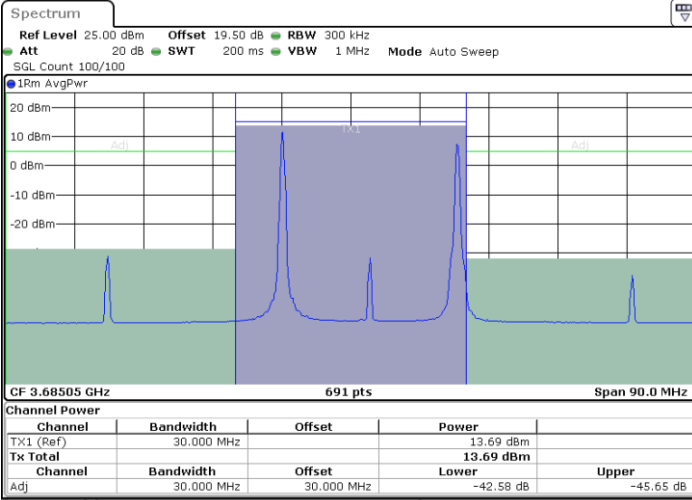


LTE Band 48C / 5MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0

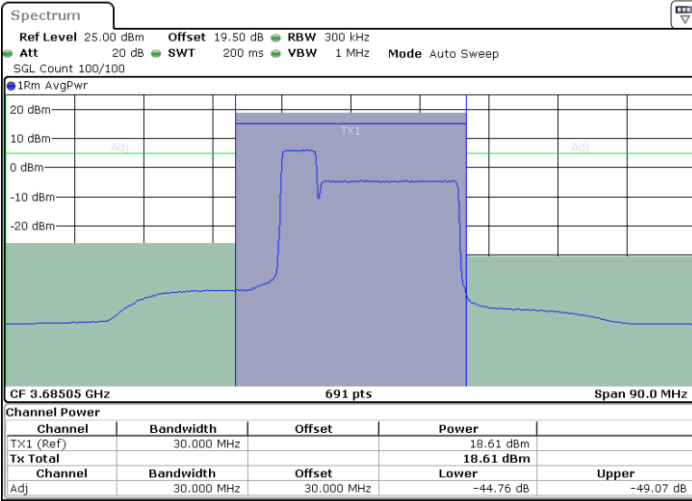


Date: 6.FEB.2024 12:16:23

Date: 6.FEB.2024 12:17:14

Highest Channel / FullRB

N/A



Date: 6.FEB.2024 12:12:10

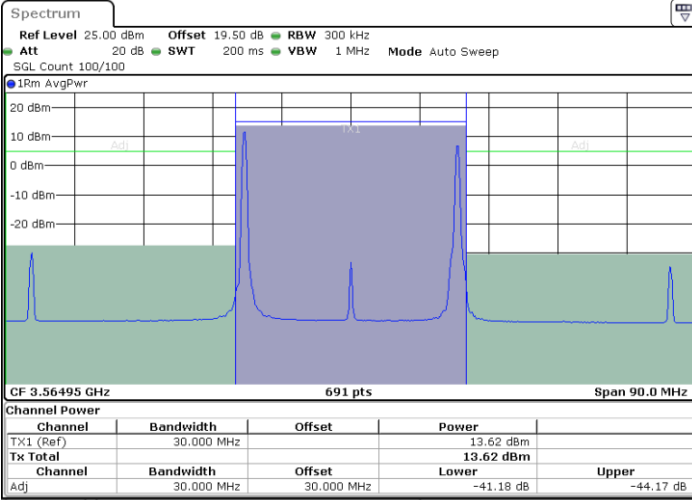


LTE Band 48C / 10MHz+20MHz

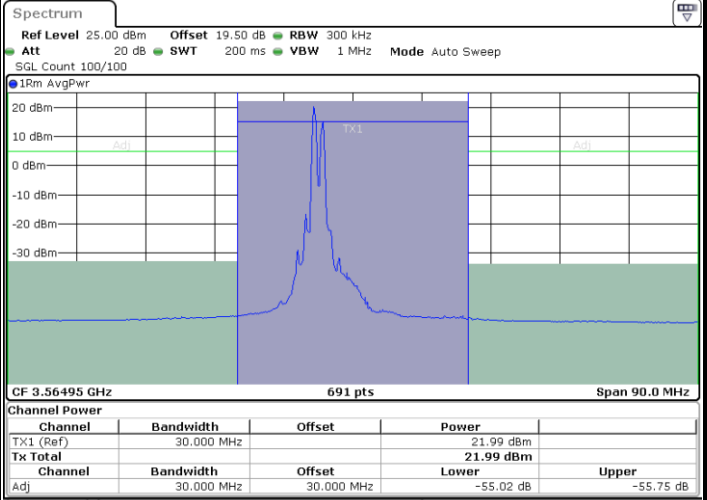
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



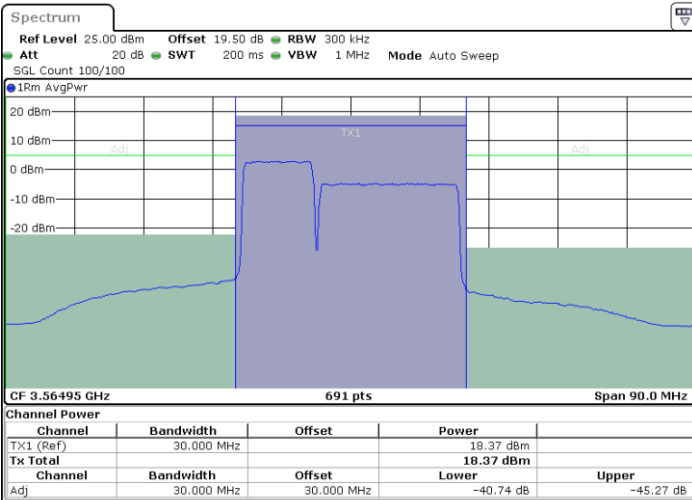
Date: 6.FEB.2024 13:30:12



Date: 6.FEB.2024 13:31:03

Lowest Channel / FullIRB

N/A



Date: 6.FEB.2024 13:25:58



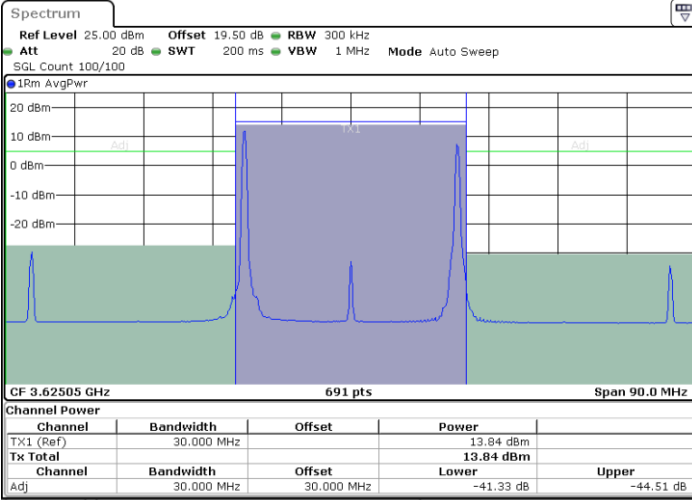


LTE Band 48C / 10MHz+20MHz

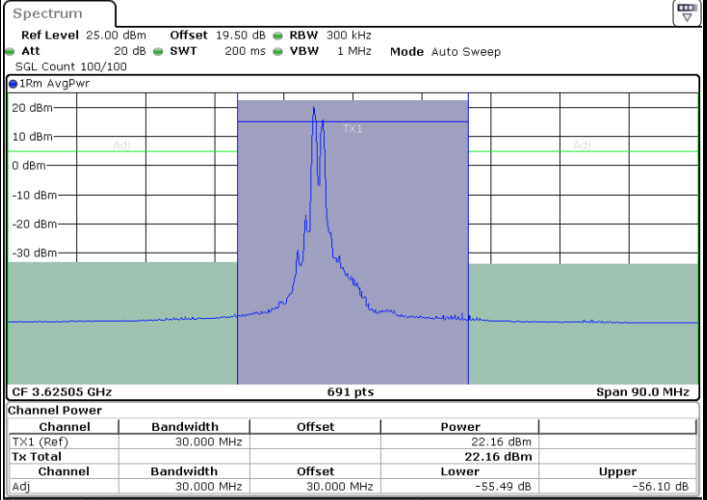
QPSK

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB49 and 1RB0



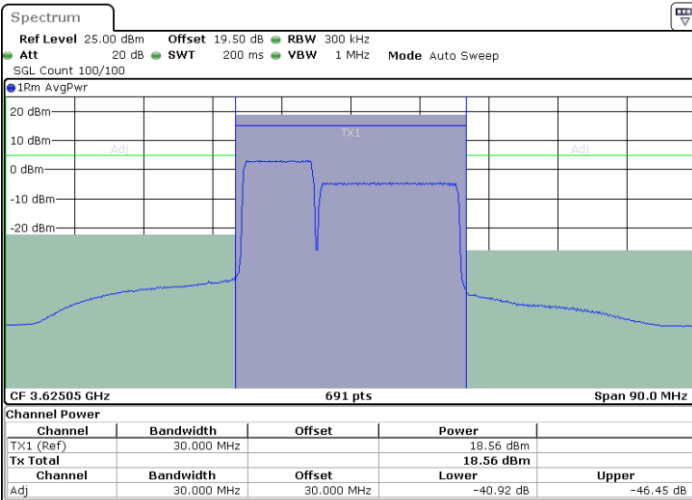
Date: 6.FEB.2024 13:13:21



Date: 6.FEB.2024 13:14:12

Middle Channel / FullIRB

N/A



Date: 6.FEB.2024 13:09:09

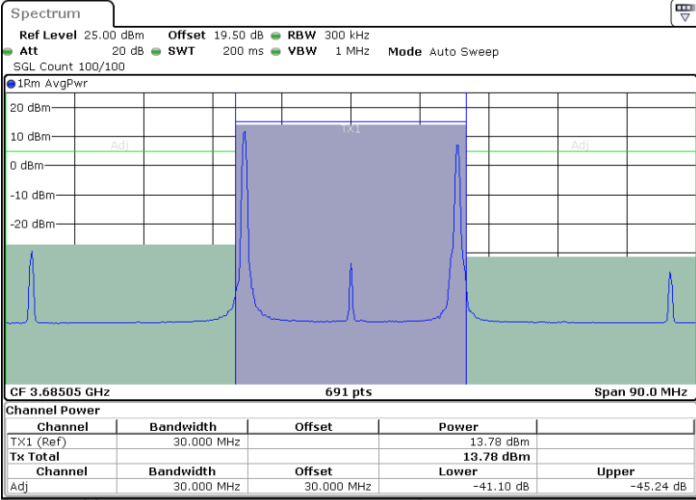


LTE Band 48C / 10MHz+20MHz

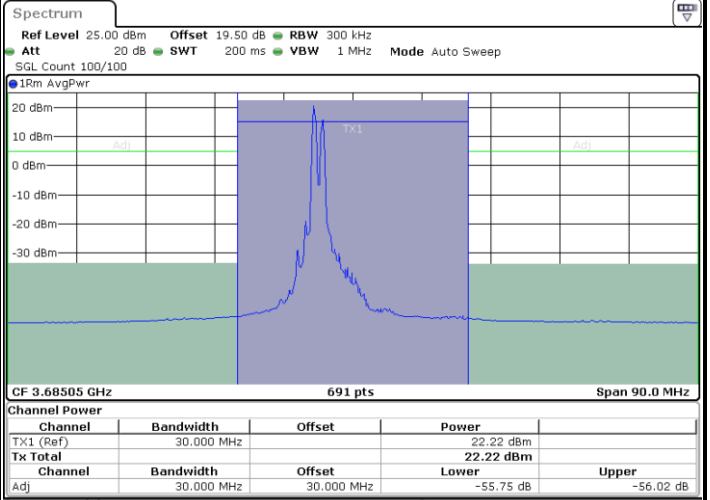
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



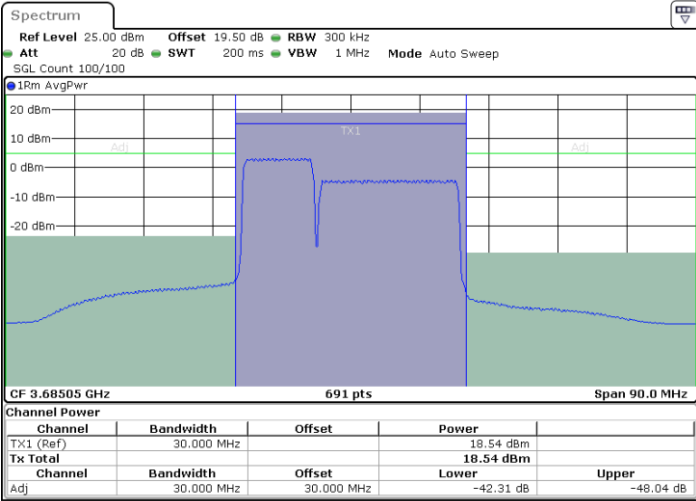
Date: 6.FEB.2024 13:47:03



Date: 6.FEB.2024 13:47:53

Highest Channel / FullRB

N/A



Date: 6.FEB.2024 13:42:49

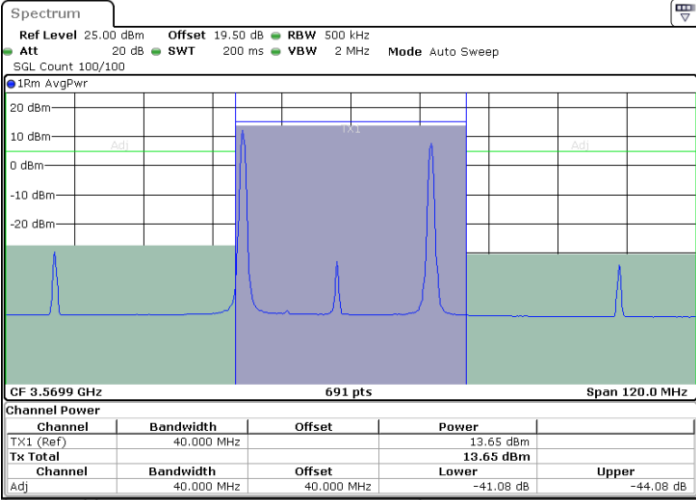


LTE Band 48C / 15MHz+20MHz

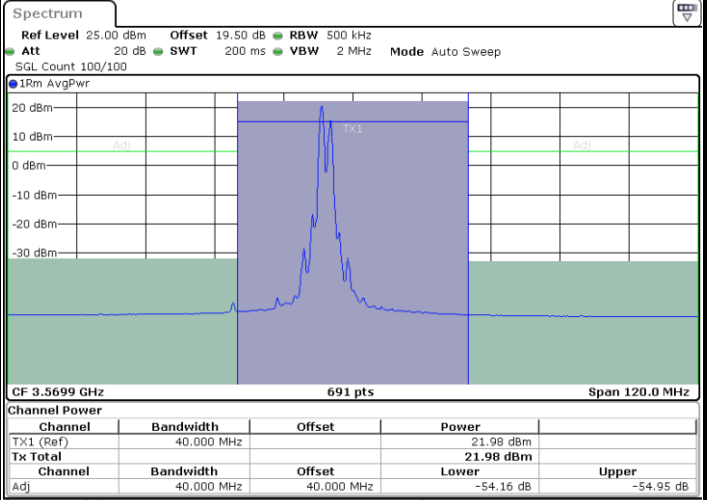
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



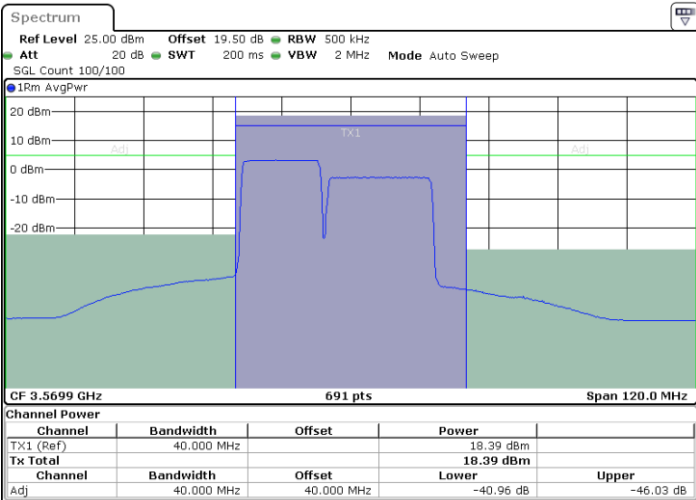
Date: 6.FEB.2024 14:59:40



Date: 6.FEB.2024 15:00:31

Lowest Channel / FullIRB

N/A



Date: 6.FEB.2024 14:55:25

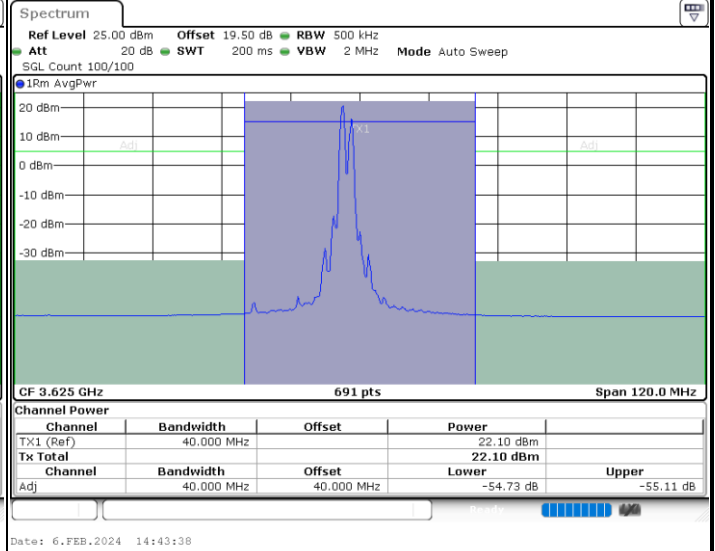
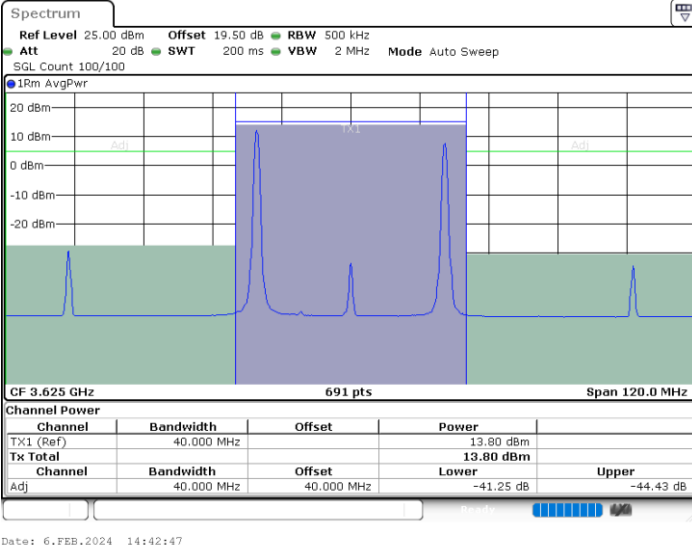


LTE Band 48C / 15MHz+20MHz

QPSK

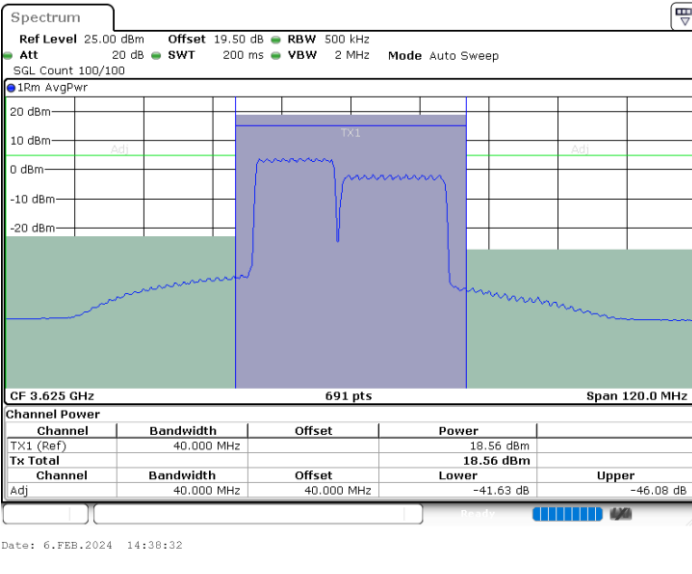
Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0



Middle Channel / FullIRB

N/A



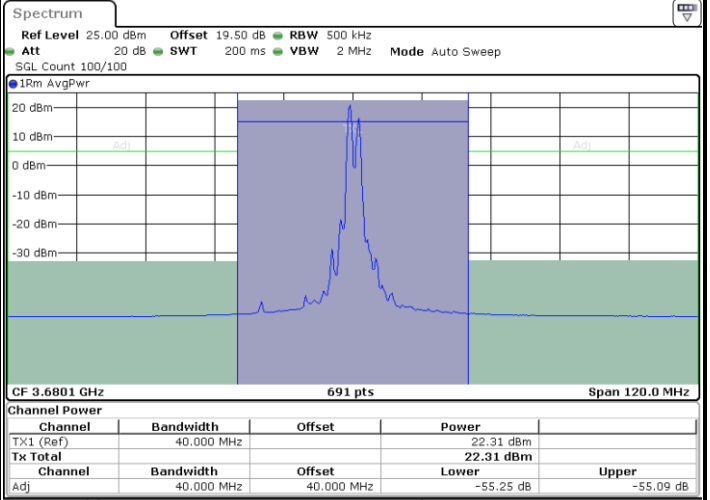
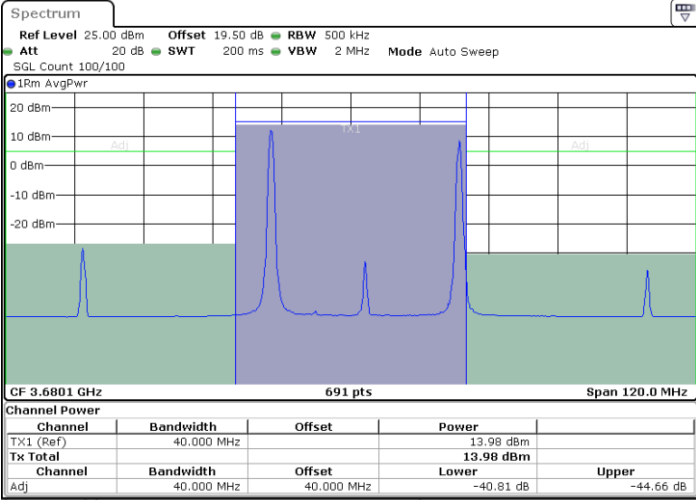


LTE Band 48C / 15MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0

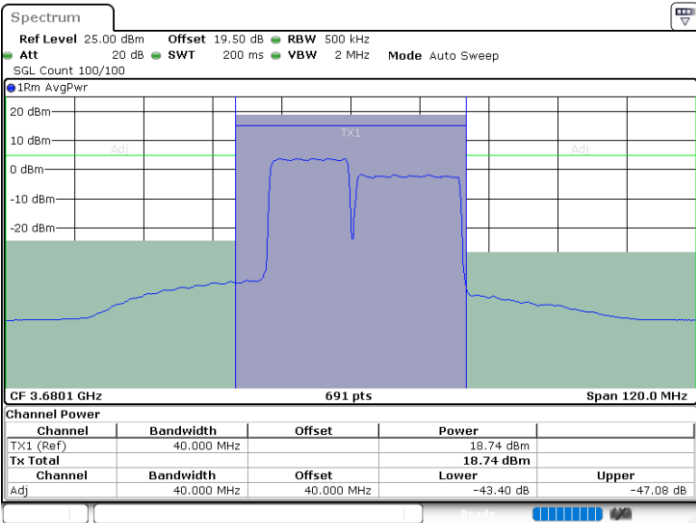


Date: 6.FEB.2024 15:16:31

Date: 6.FEB.2024 15:17:21

Highest Channel / FullRB

N/A



Date: 6.FEB.2024 15:12:18

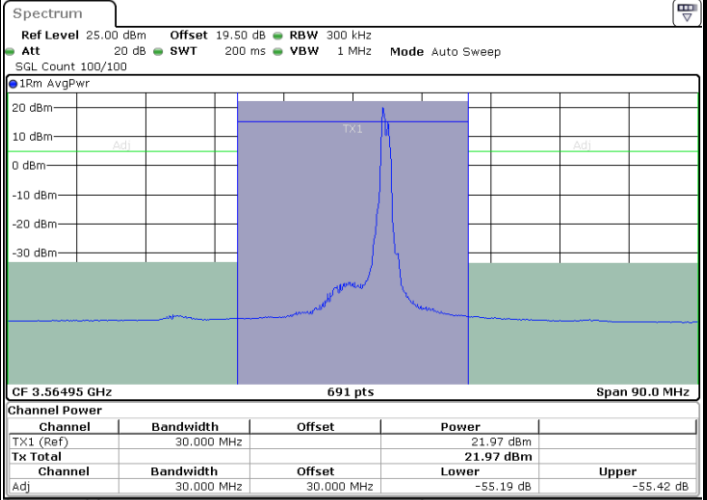
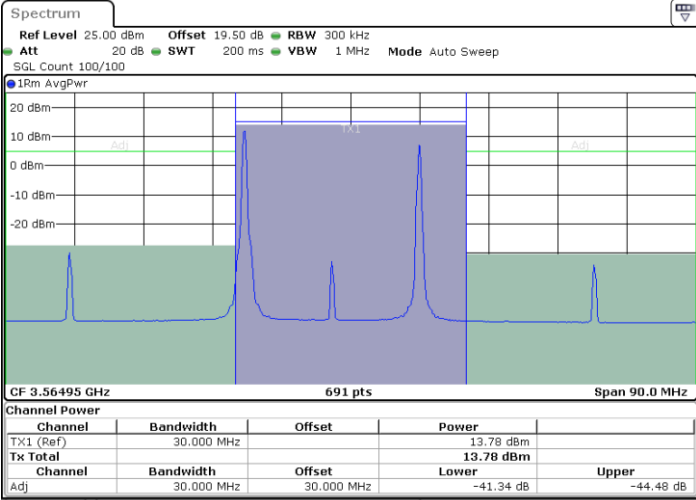


LTE Band 48C / 20MHz+5MHz

QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0

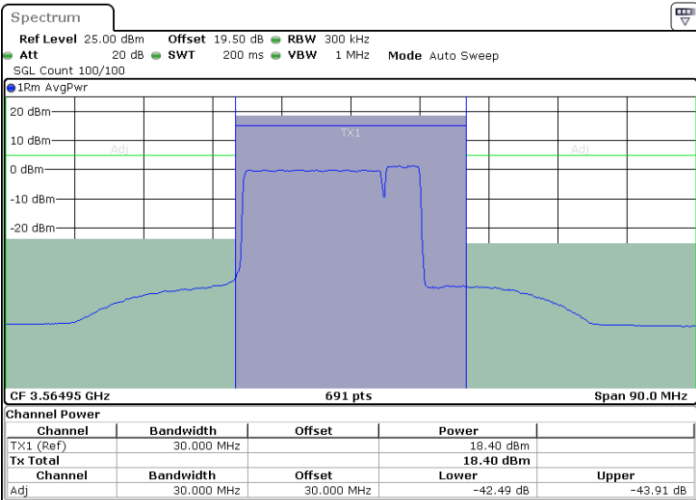


Date: 6.FEB.2024 12:44:52

Date: 6.FEB.2024 12:45:43

Lowest Channel / FullIRB

N/A



Date: 6.FEB.2024 12:40:40

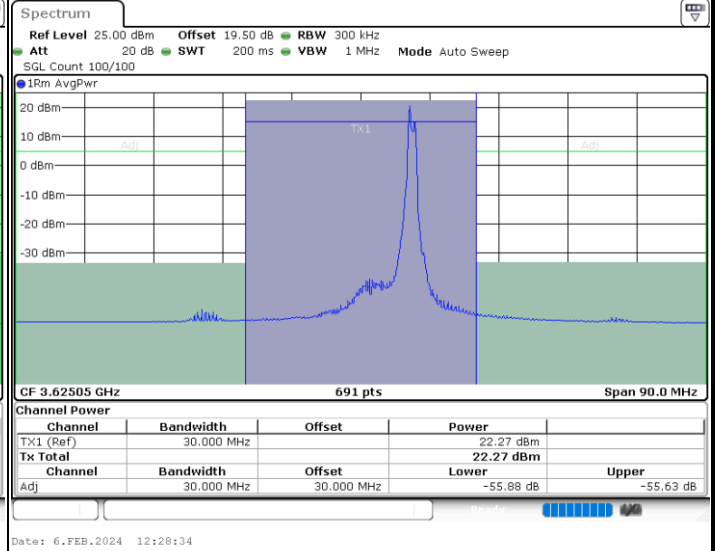
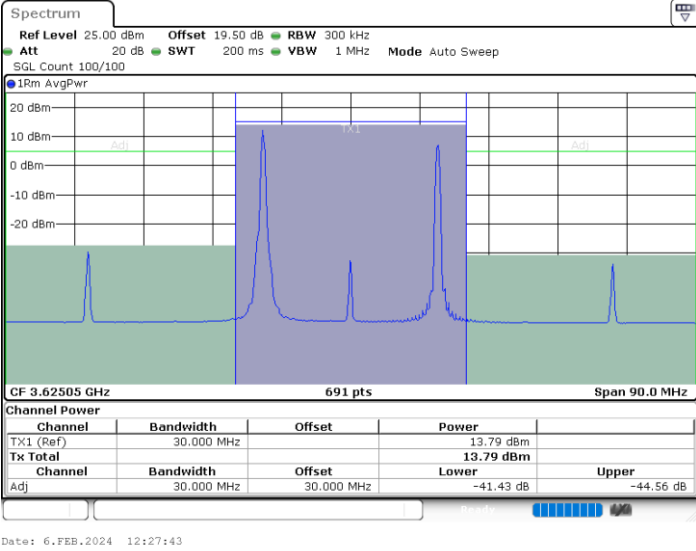


LTE Band 48C / 20MHz+5MHz

QPSK

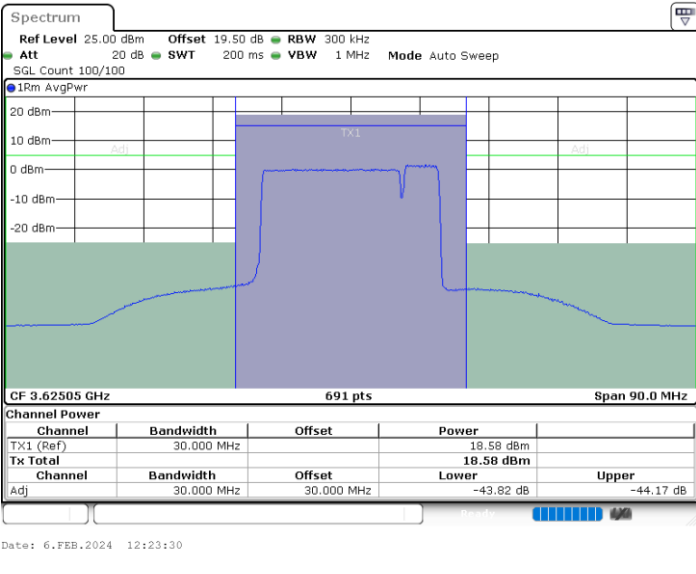
Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A



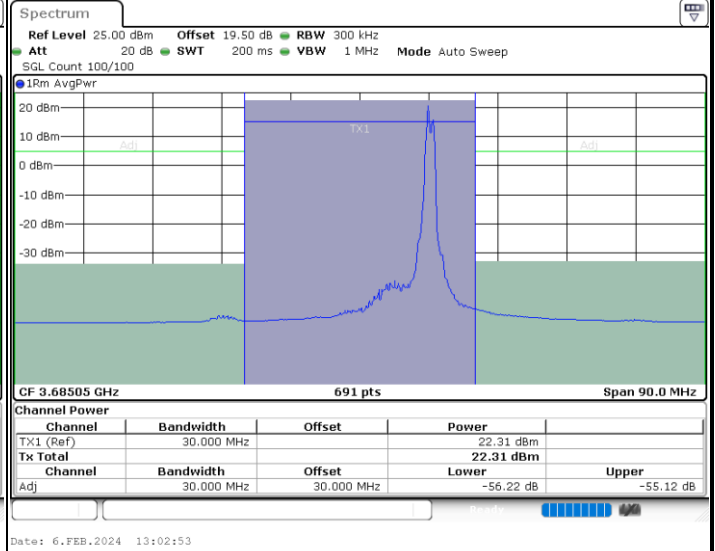
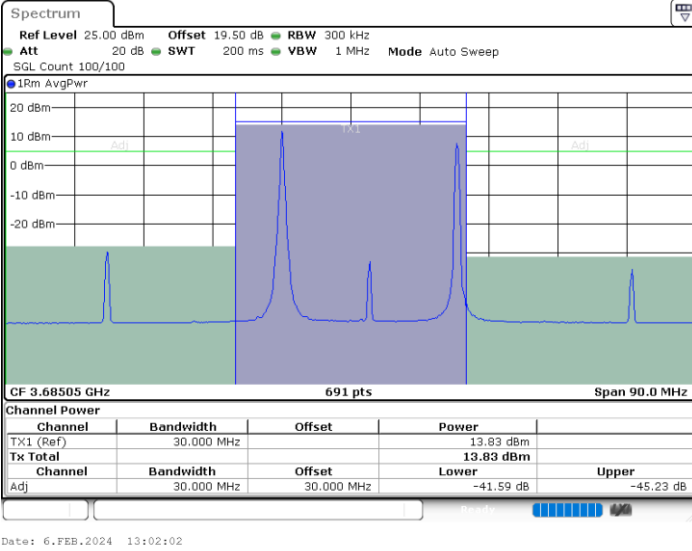


LTE Band 48C / 20MHz+5MHz

QPSK

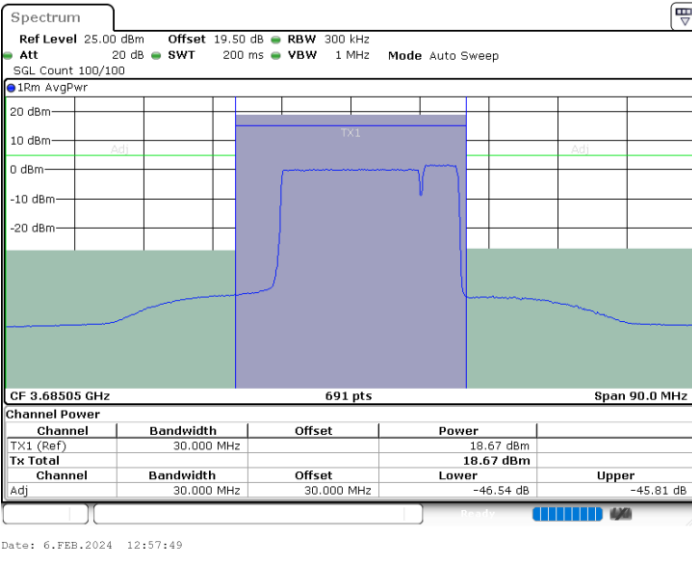
Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullRB

N/A





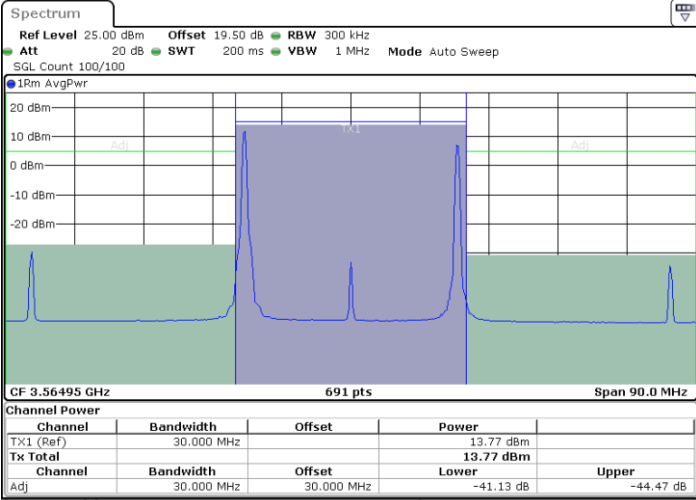


LTE Band 48C / 20MHz+10MHz

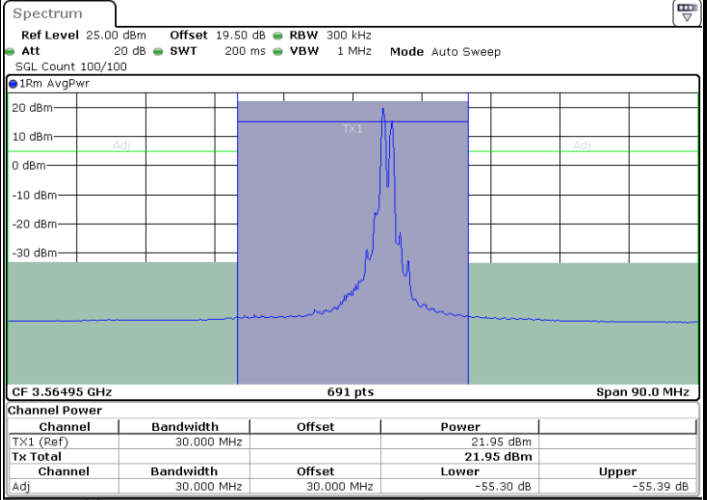
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



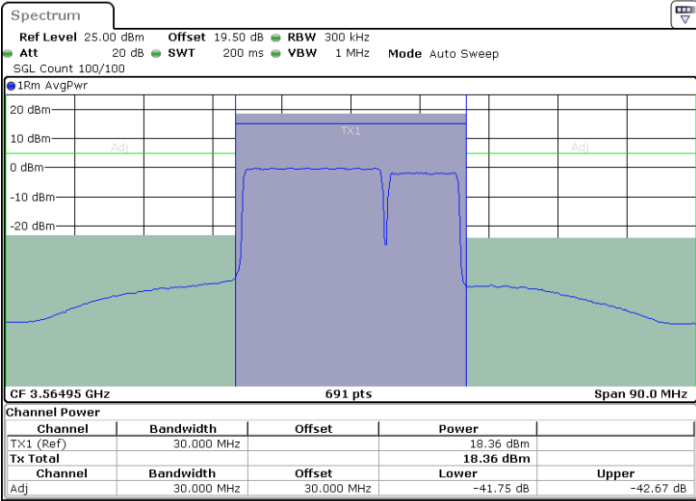
Date: 6.FEB.2024 14:14:53



Date: 6.FEB.2024 14:15:43

Lowest Channel / FullIRB

N/A



Date: 6.FEB.2024 14:10:39

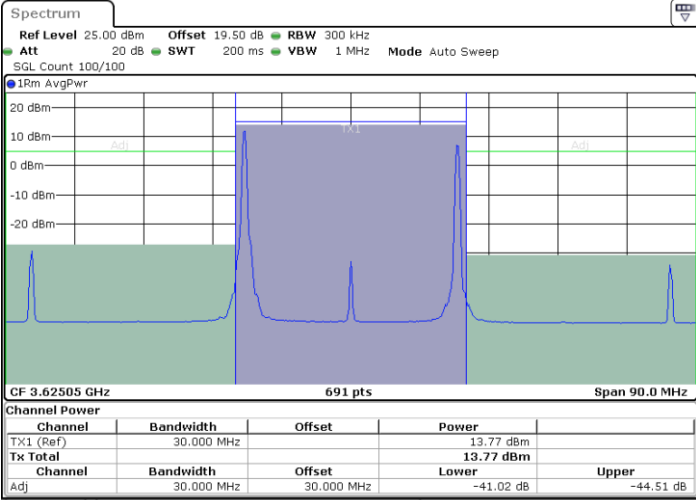


LTE Band 48C / 20MHz+10MHz

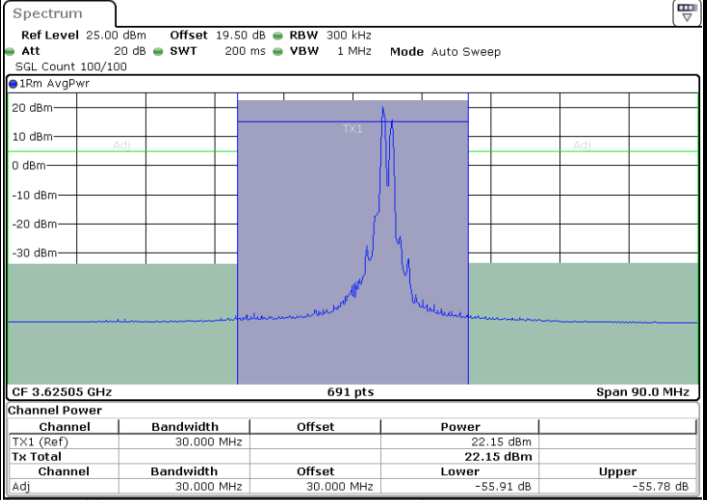
QPSK

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



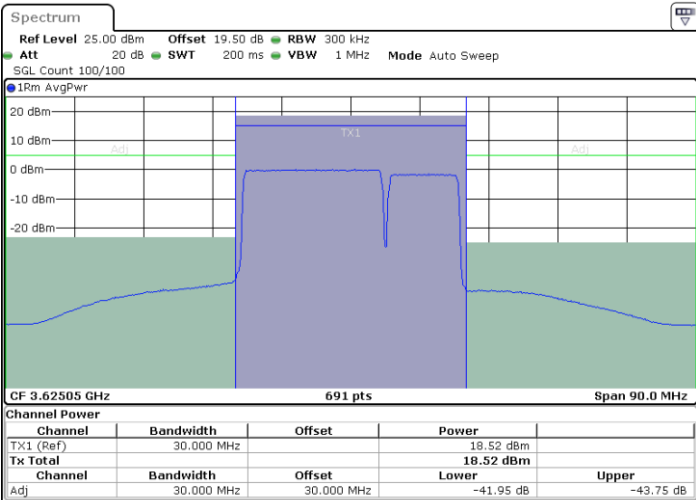
Date: 6.FEB.2024 13:58:03



Date: 6.FEB.2024 13:58:53

Middle Channel / FullIRB

N/A



Date: 6.FEB.2024 13:53:50

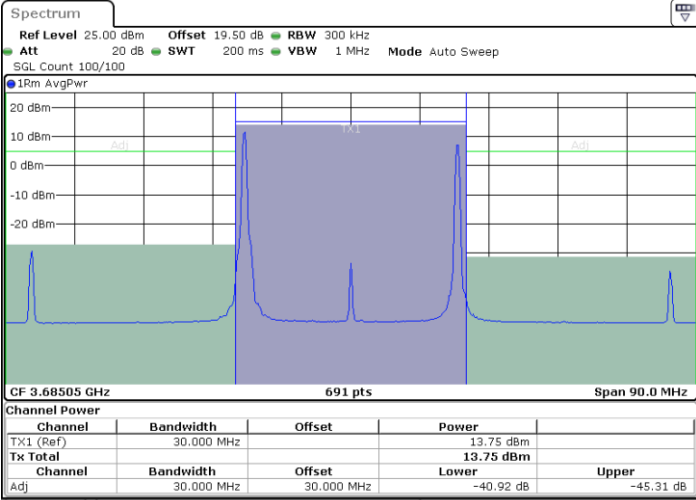


LTE Band 48C / 20MHz+10MHz

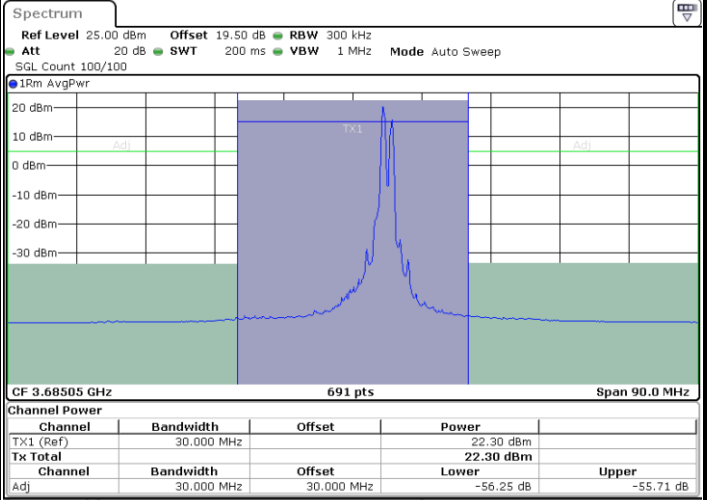
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



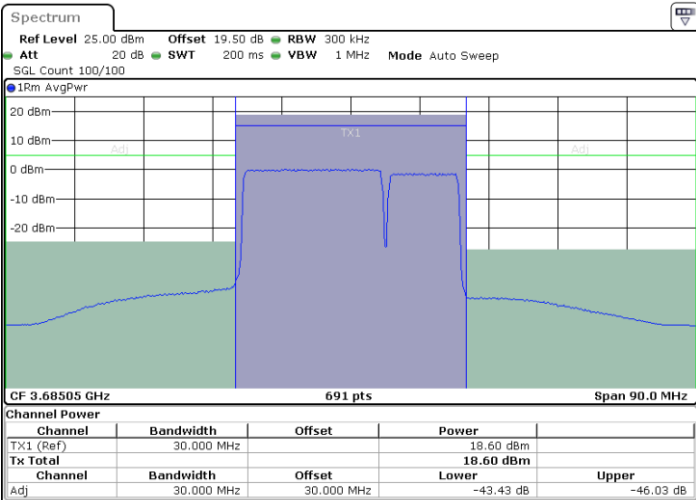
Date: 6.FEB.2024 14:31:44



Date: 6.FEB.2024 14:32:35

Highest Channel / FullRB

N/A



Date: 6.FEB.2024 14:27:31

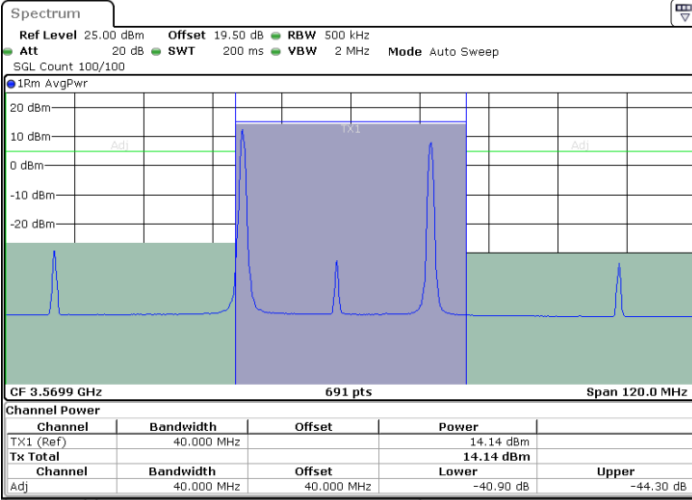


LTE Band 48C / 20MHz+15MHz

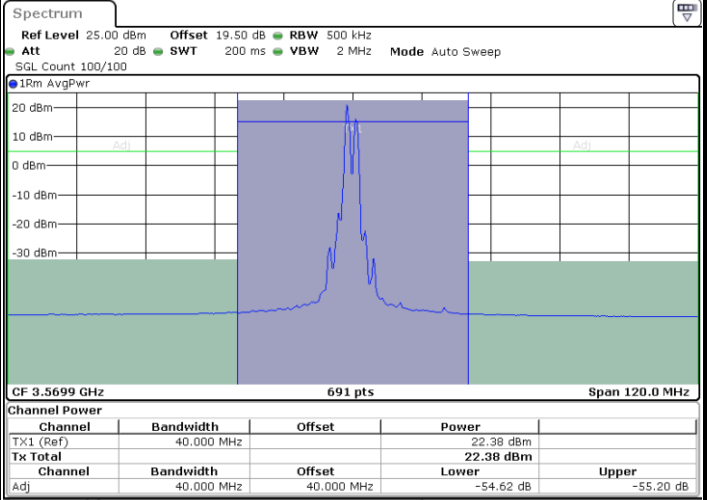
QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



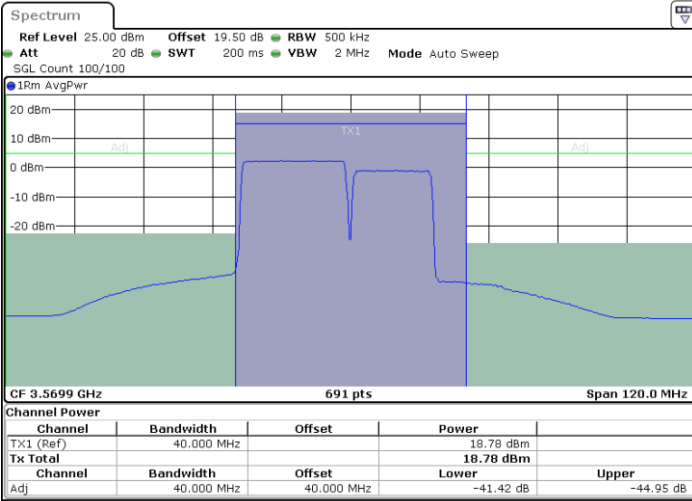
Date: 6.FEB.2024 15:44:26



Date: 6.FEB.2024 15:45:17

Lowest Channel / FullIRB

N/A



Date: 6.FEB.2024 15:40:11

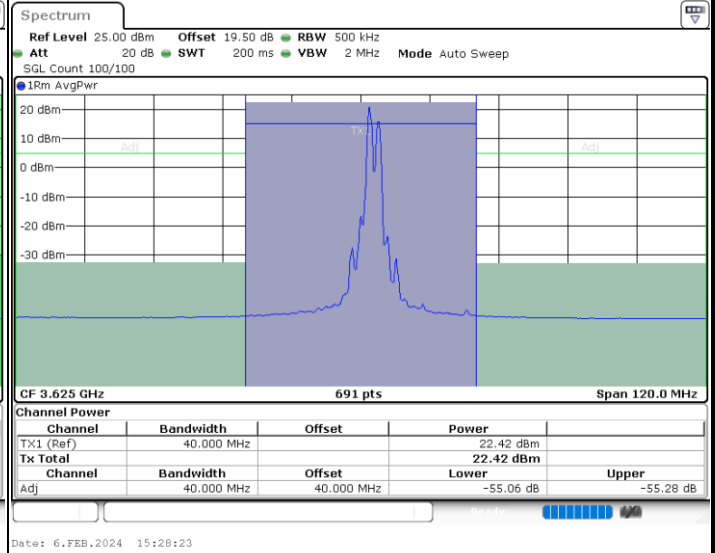
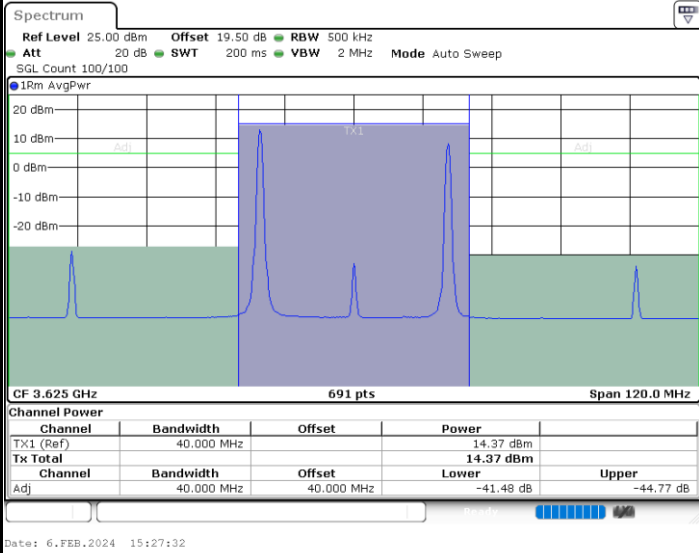


LTE Band 48C / 20MHz+15MHz

QPSK

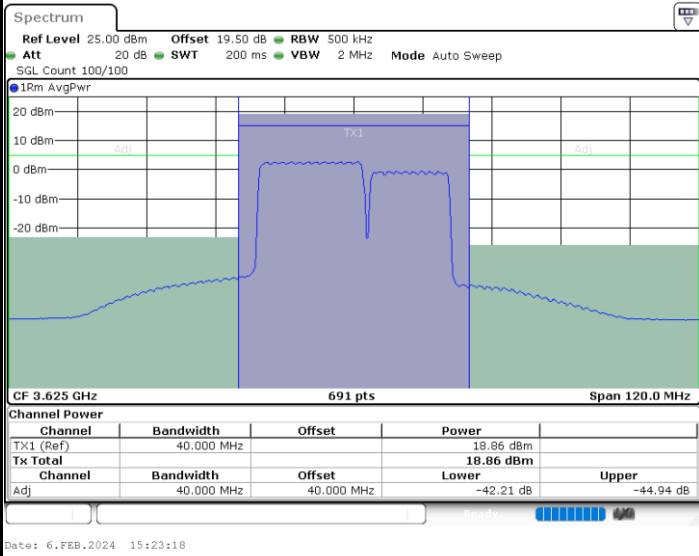
Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A



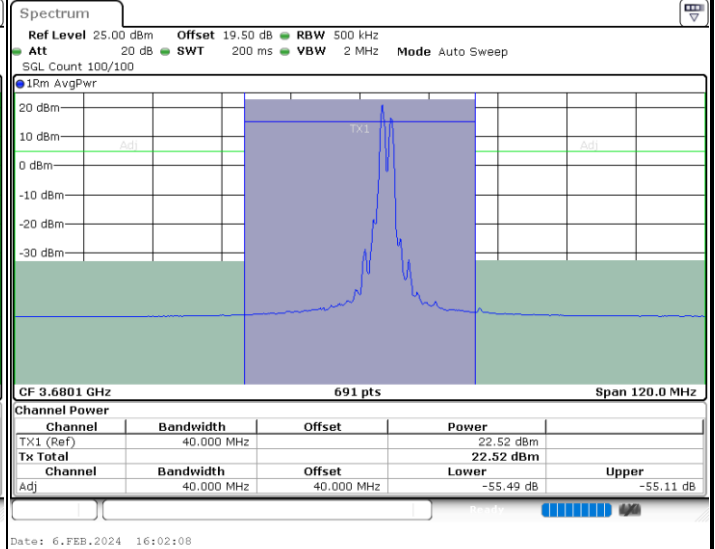
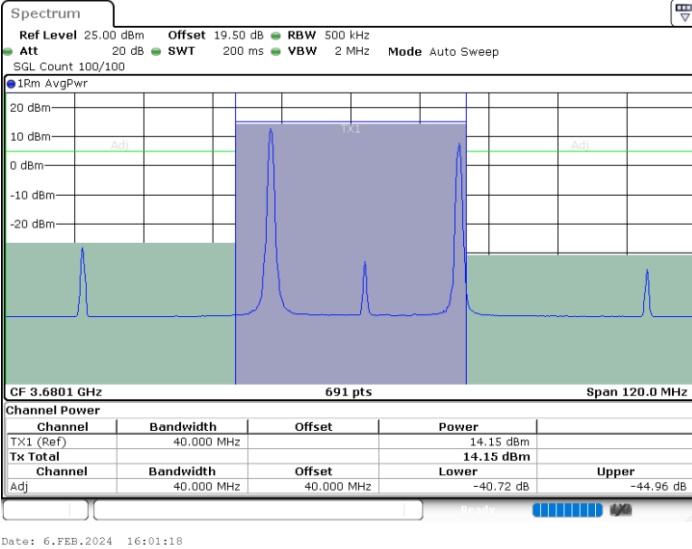


LTE Band 48C / 20MHz+15MHz

QPSK

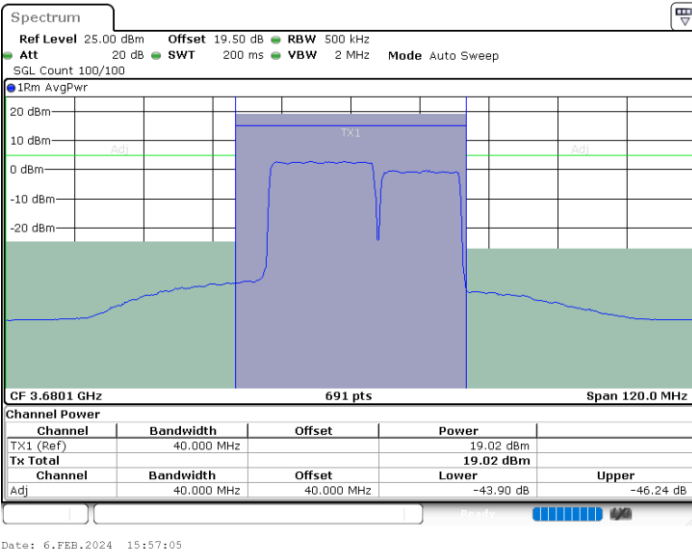
Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullIRB

N/A



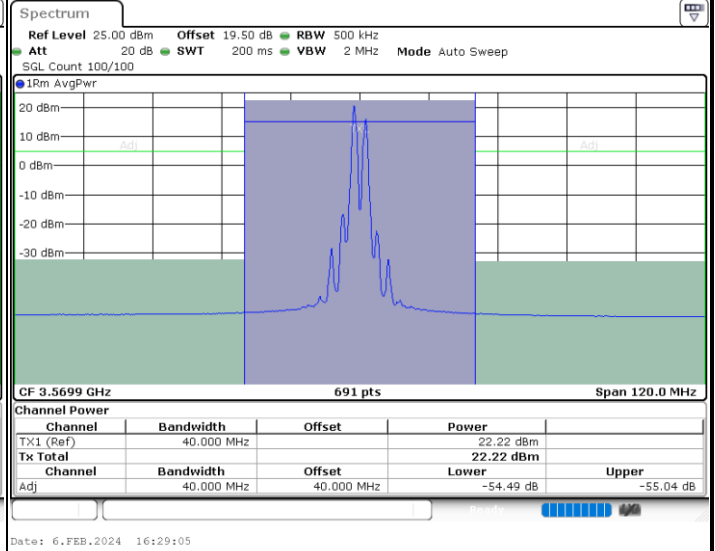
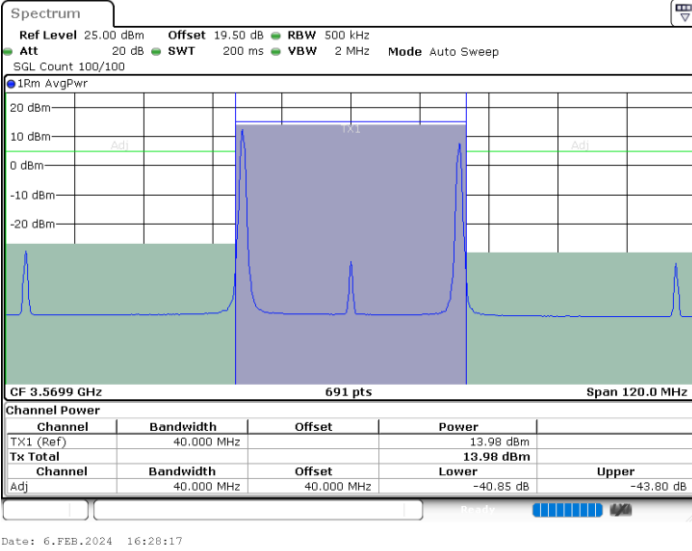


LTE Band 48C / 20MHz+20MHz

QPSK

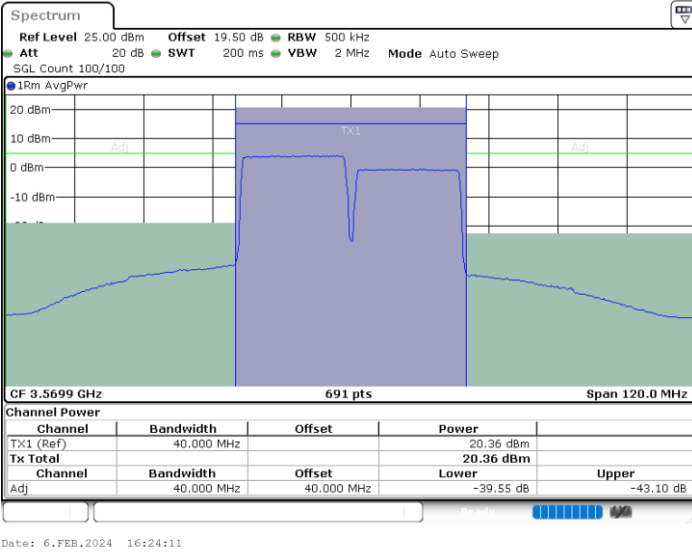
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullIRB

N/A



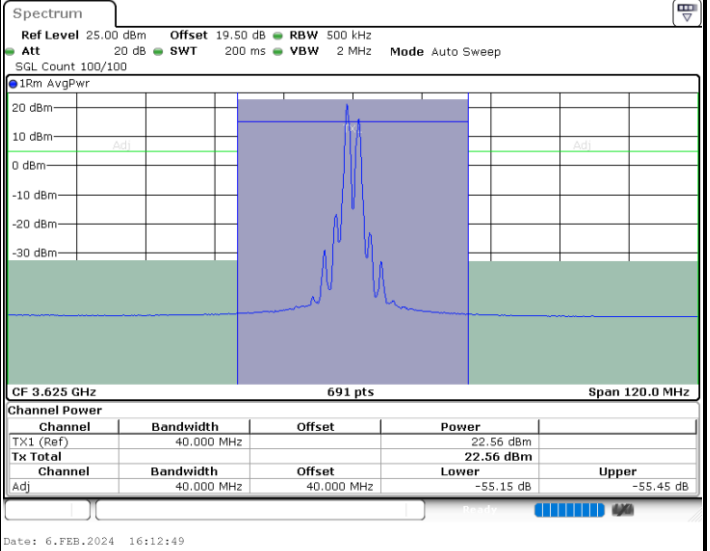
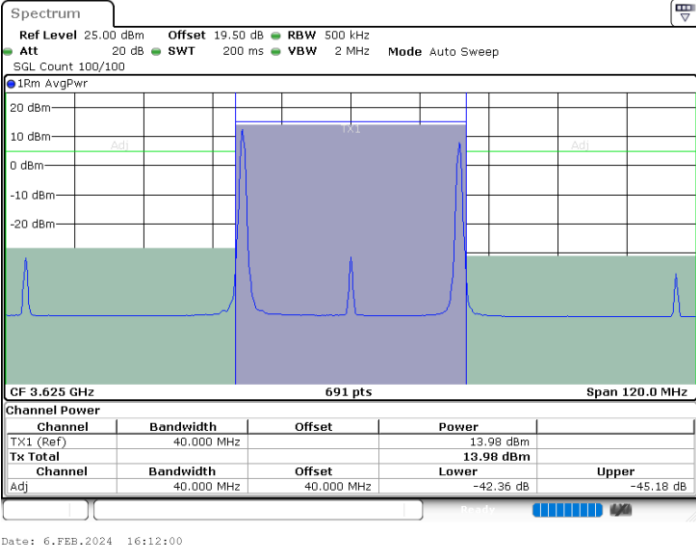


LTE Band 48C / 20MHz+20MHz

QPSK

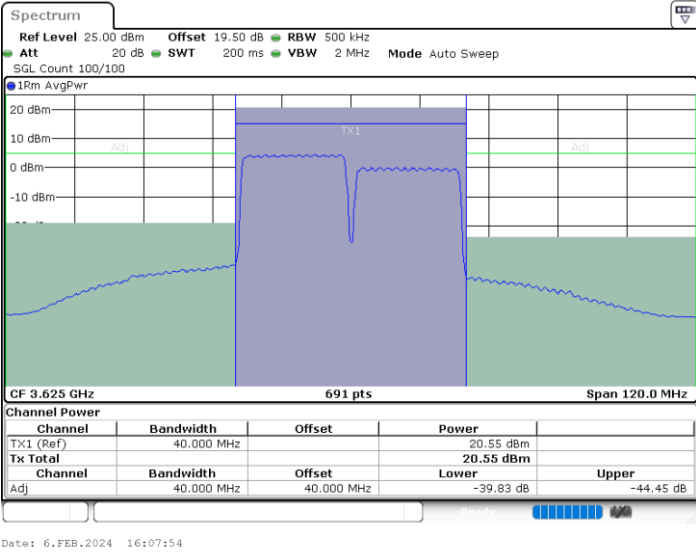
MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A





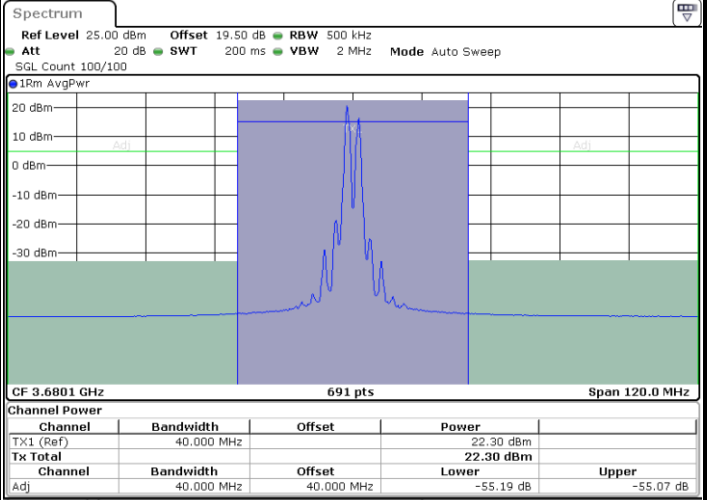
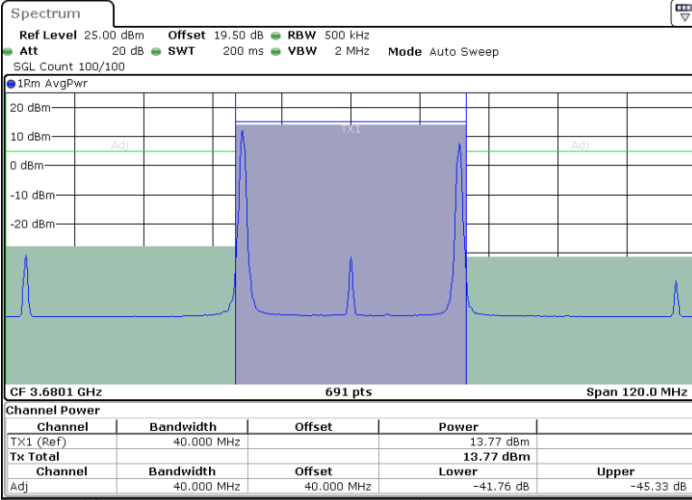


LTE Band 48C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

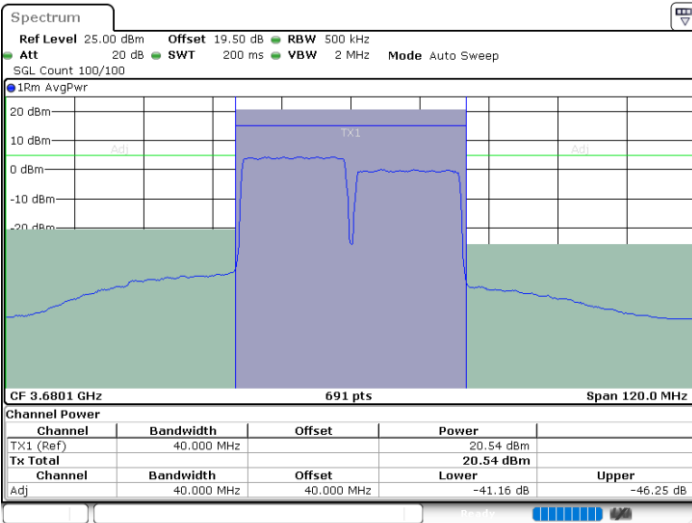


Date: 6.FEB.2024 16:44:35

Date: 6.FEB.2024 16:45:24

Highest Channel / FullRB

N/A



Date: 6.FEB.2024 16:40:32

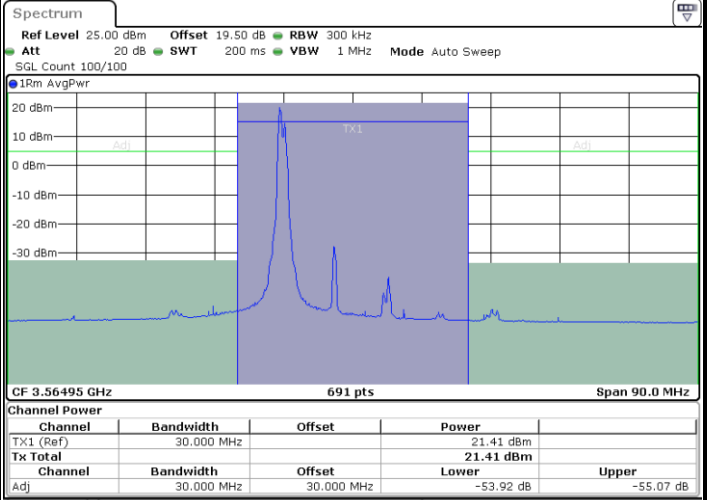
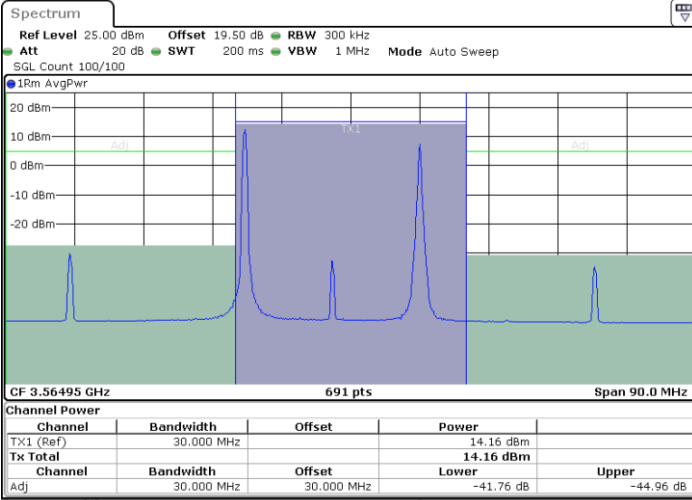


LTE Band 48C / 5MHz+20MHz

16QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0

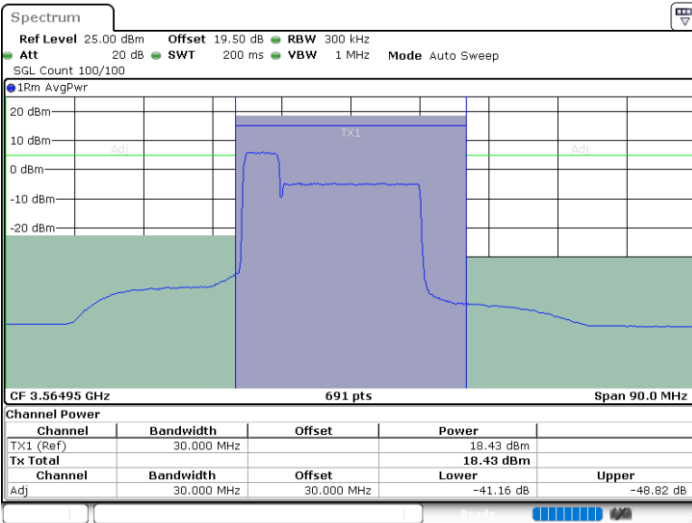


Date: 6.FEB.2024 11:58:23

Date: 6.FEB.2024 12:00:55

Lowest Channel / FullIRB

N/A



Date: 6.FEB.2024 11:55:51

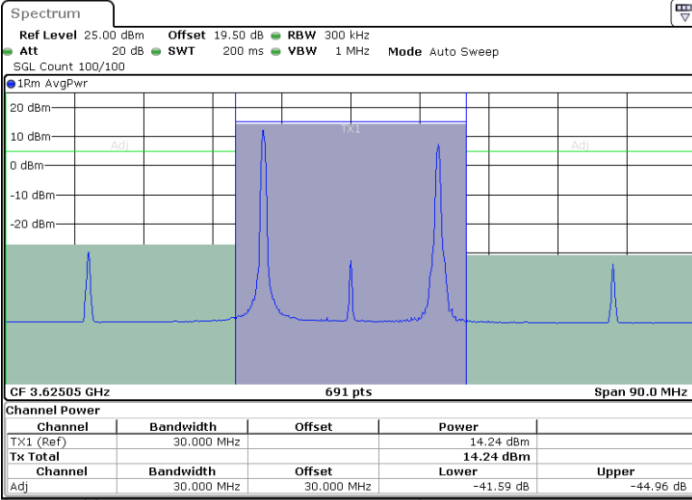


LTE Band 48C / 5MHz+20MHz

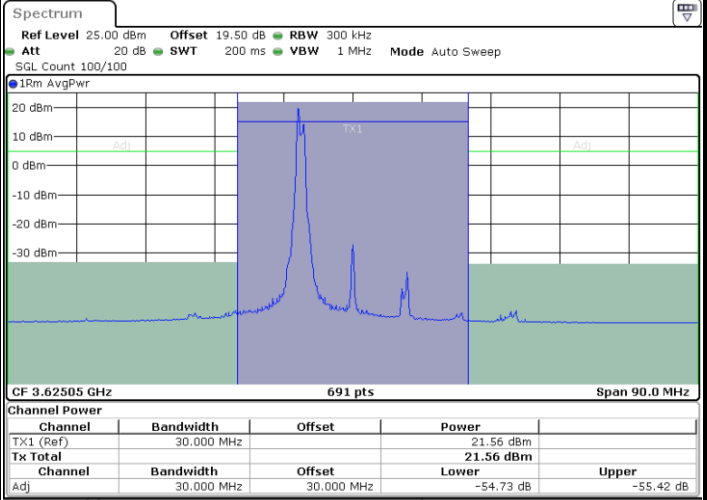
16QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB24 and 1RB0



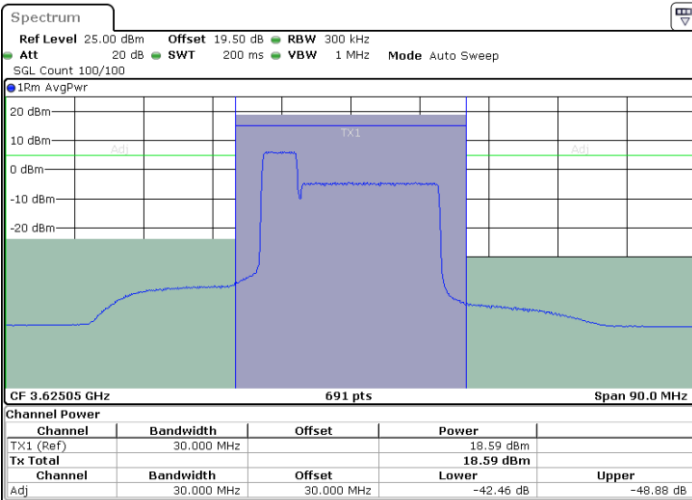
Date: 6.FEB.2024 11:40:47



Date: 6.FEB.2024 11:43:25

Middle Channel / FullIRB

N/A



Date: 6.FEB.2024 11:38:09

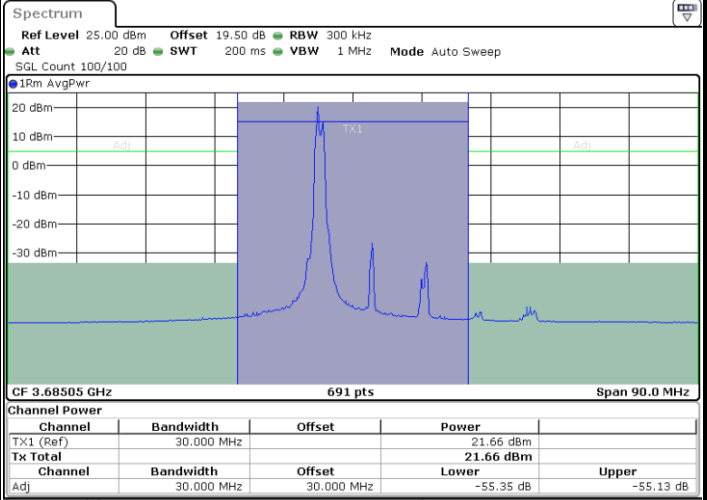
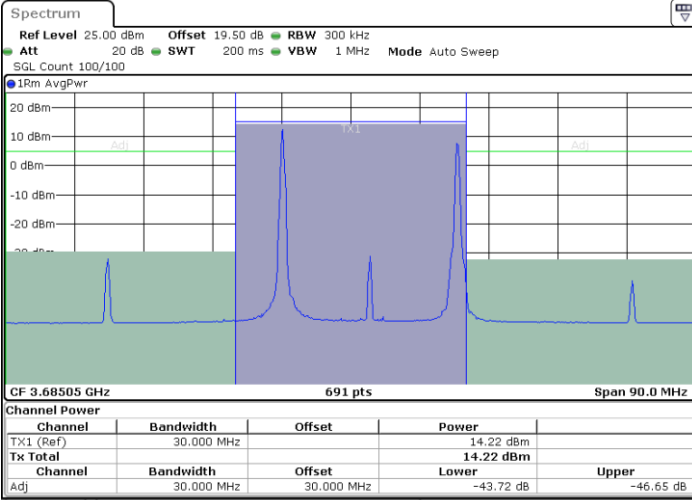


LTE Band 48C / 5MHz+20MHz

16QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0

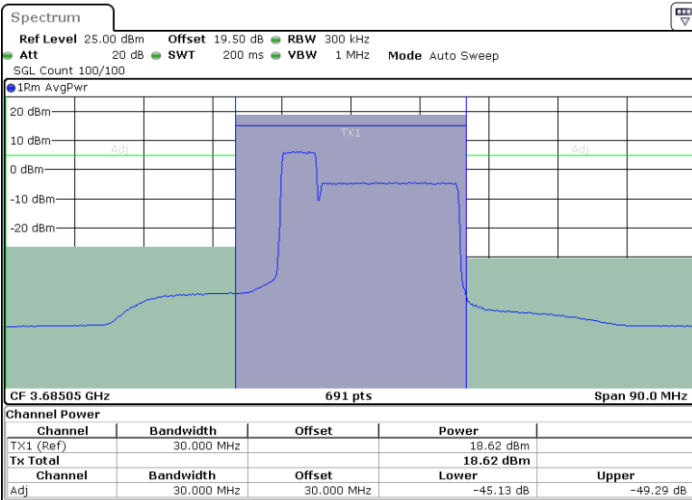


Date: 6.FEB.2024 12:15:33

Date: 6.FEB.2024 12:18:04

Highest Channel / FullRB

N/A



Date: 6.FEB.2024 12:13:01

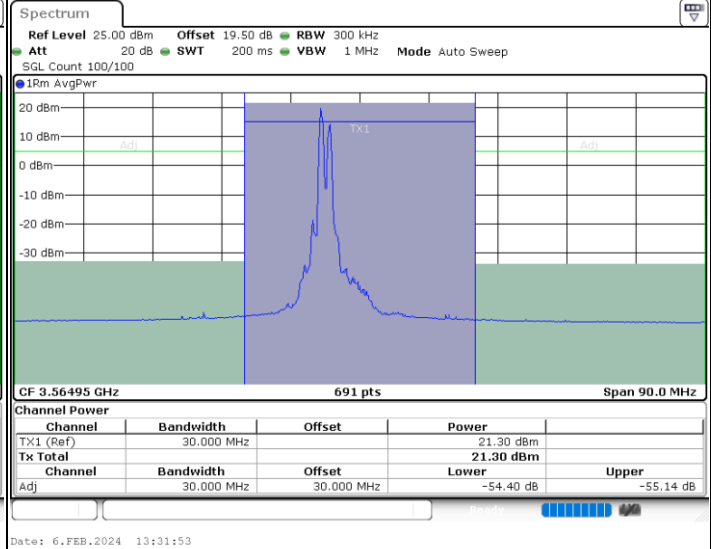
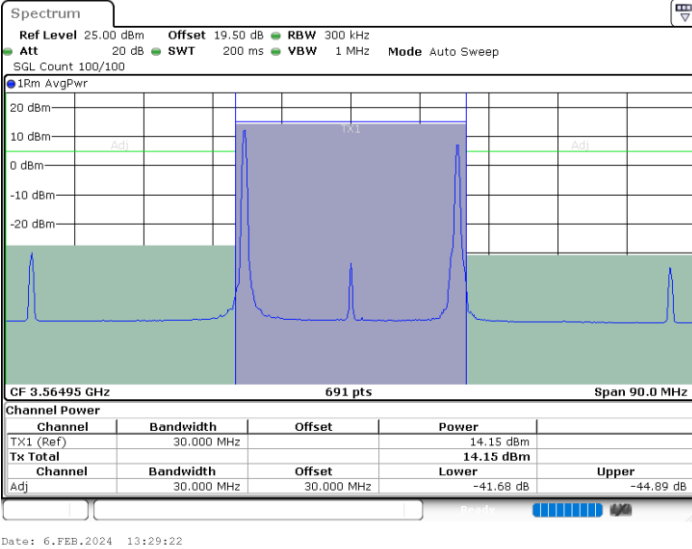


LTE Band 48C / 10MHz+20MHz

16QAM

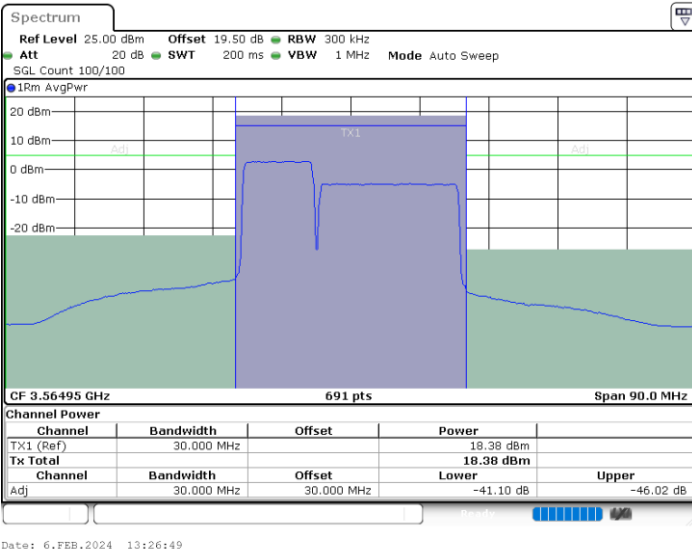
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



Lowest Channel / FullIRB

N/A



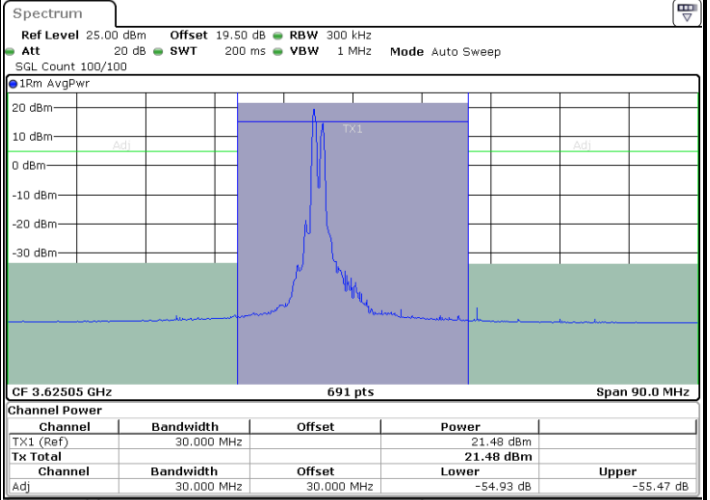
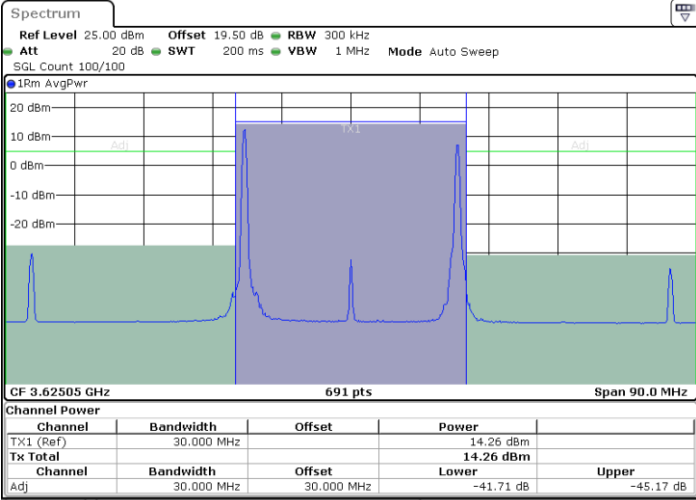


LTE Band 48C / 10MHz+20MHz

16QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB49 and 1RB0

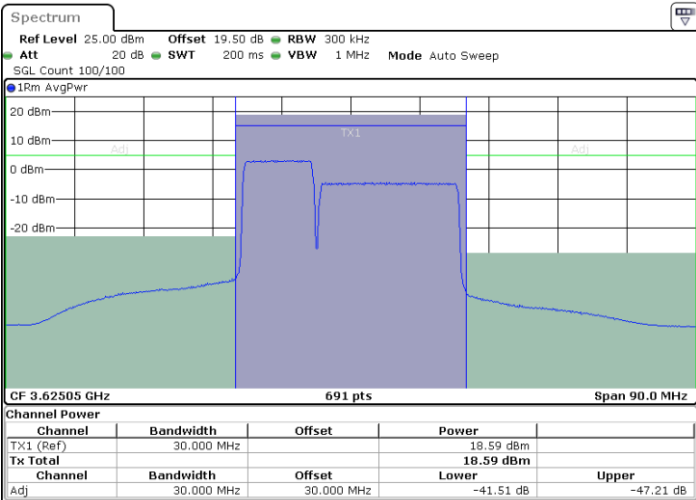


Date: 6.FEB.2024 13:12:31

Date: 6.FEB.2024 13:15:03

Middle Channel / FullIRB

N/A



Date: 6.FEB.2024 13:09:59

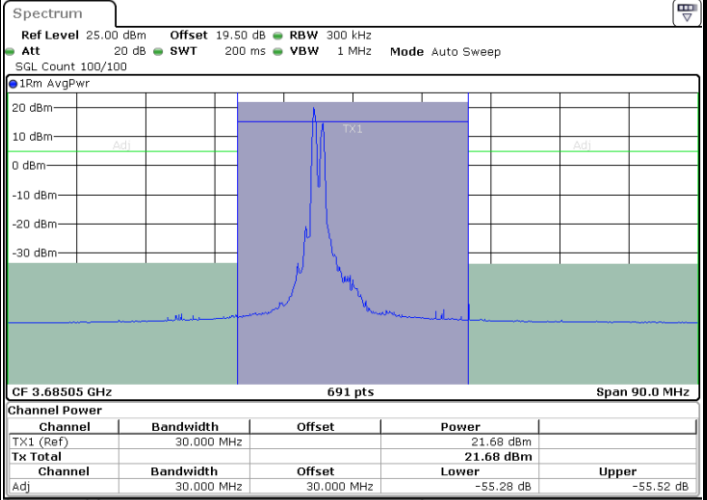
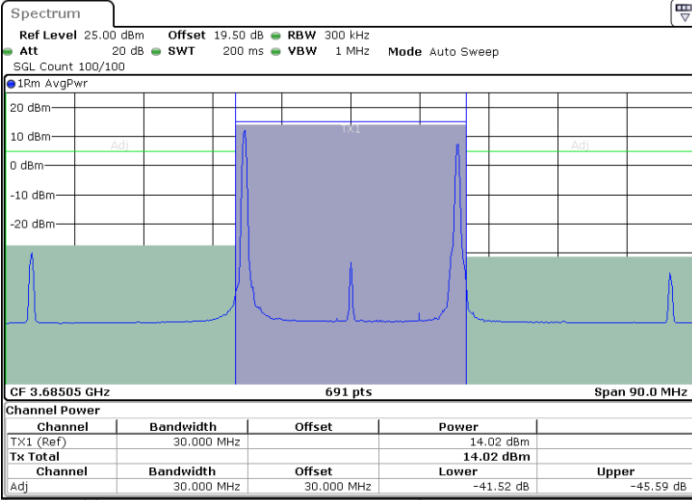


LTE Band 48C / 10MHz+20MHz

16QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0

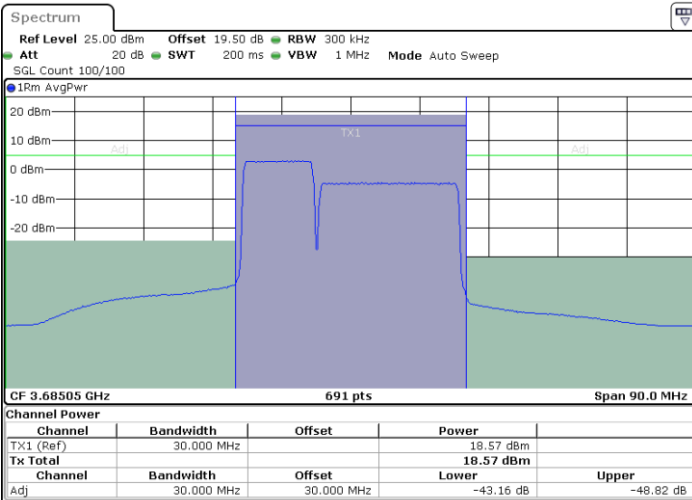


Date: 6.FEB.2024 13:46:12

Date: 6.FEB.2024 13:48:44

Highest Channel / FullRB

N/A



Date: 6.FEB.2024 13:43:40

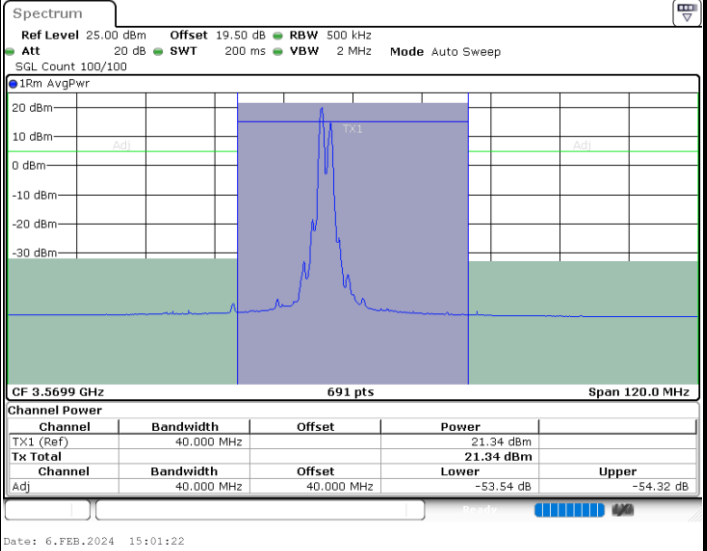
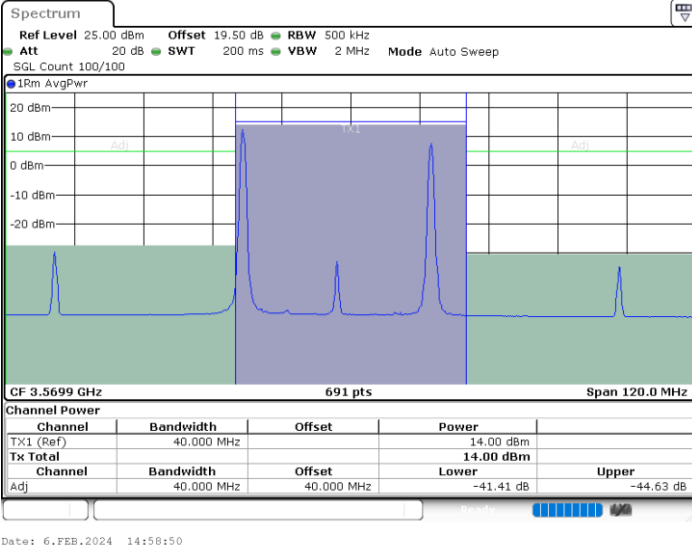


LTE Band 48C / 15MHz+20MHz

16QAM

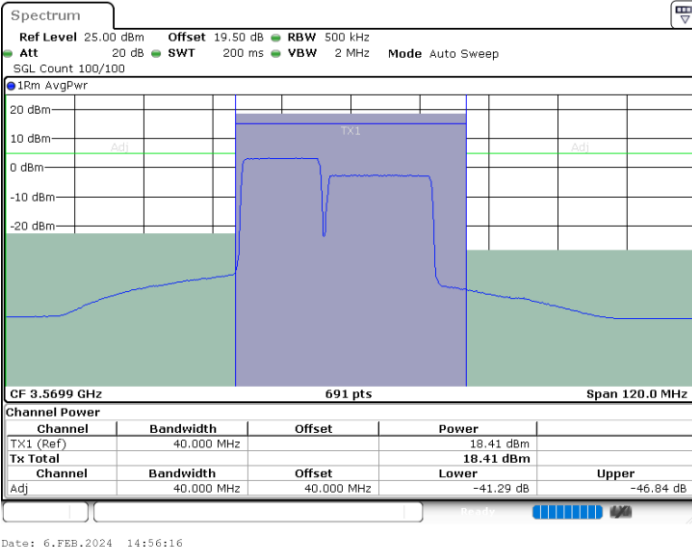
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



Lowest Channel / FullIRB

N/A





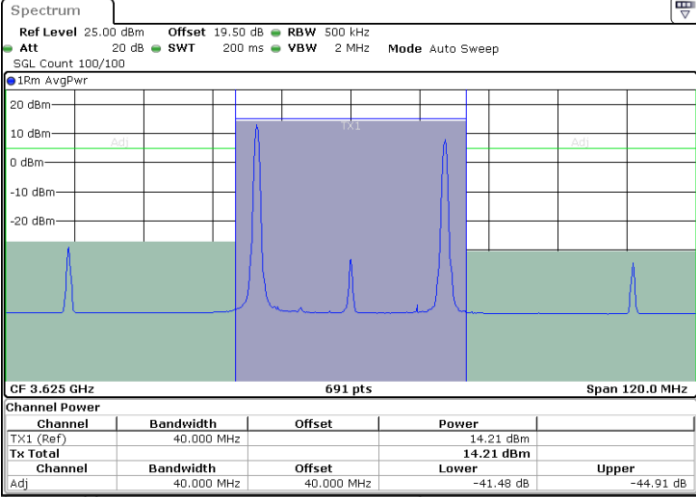


LTE Band 48C / 15MHz+20MHz

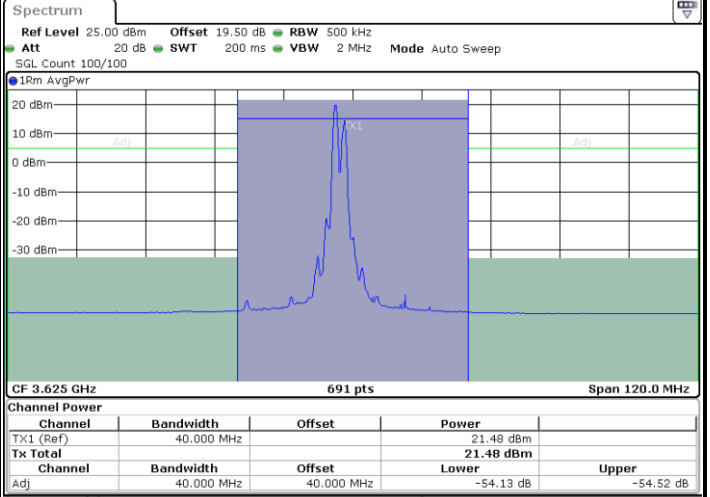
16QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0



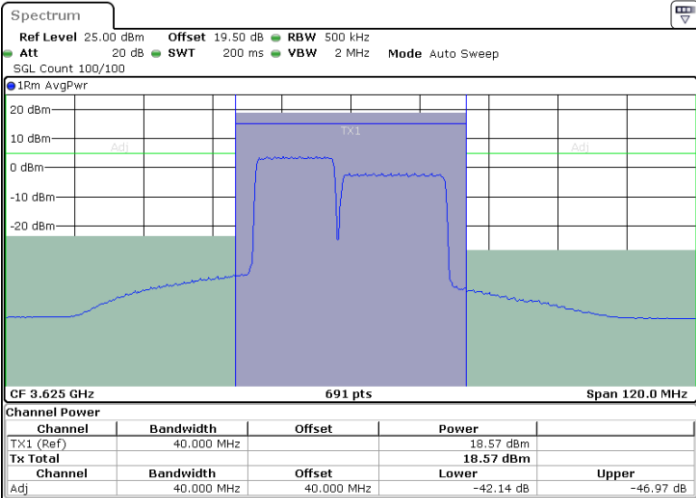
Date: 6.FEB.2024 14:41:56



Date: 6.FEB.2024 14:44:29

Middle Channel / FullIRB

N/A



Date: 6.FEB.2024 14:39:23

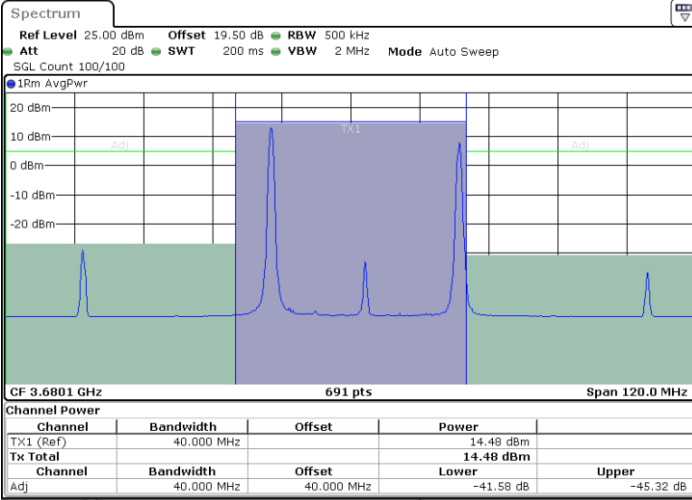


LTE Band 48C / 15MHz+20MHz

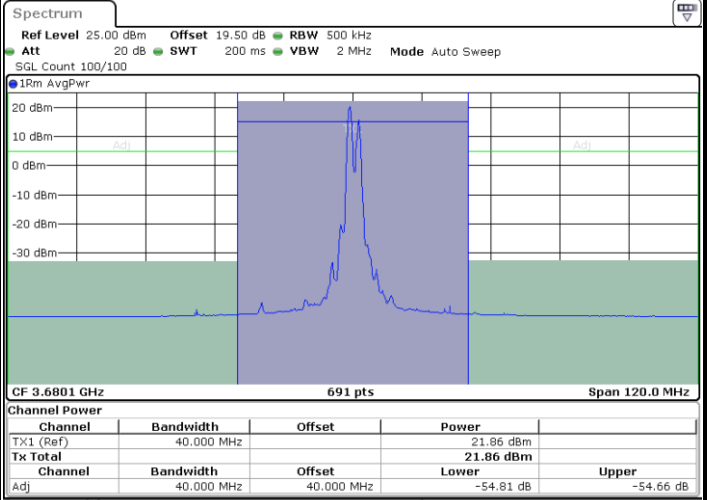
16QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



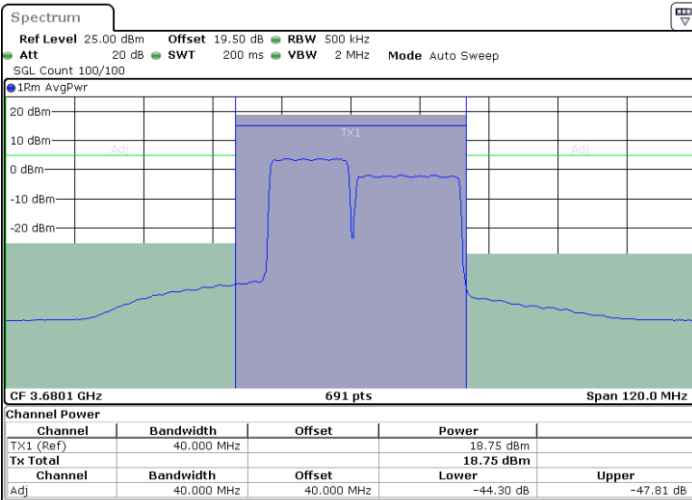
Date: 6.FEB.2024 15:15:40



Date: 6.FEB.2024 15:18:12

Highest Channel / FullIRB

N/A



Date: 6.FEB.2024 15:13:08

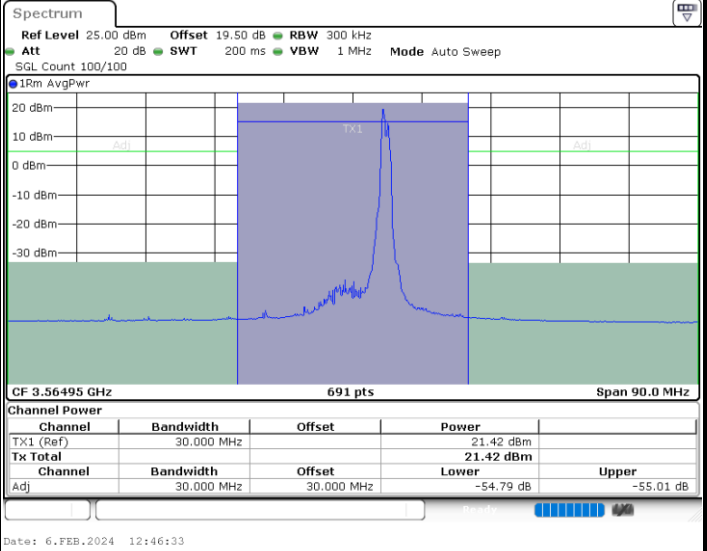
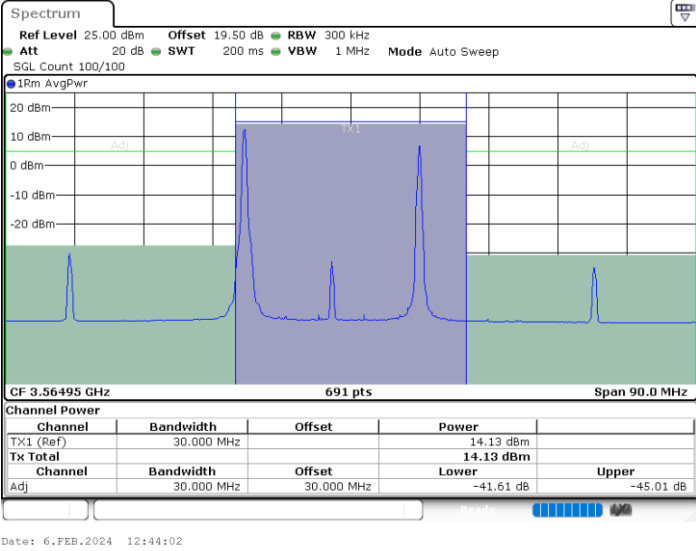


LTE Band 48C / 20MHz+5MHz

16QAM

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullIRB

N/A

