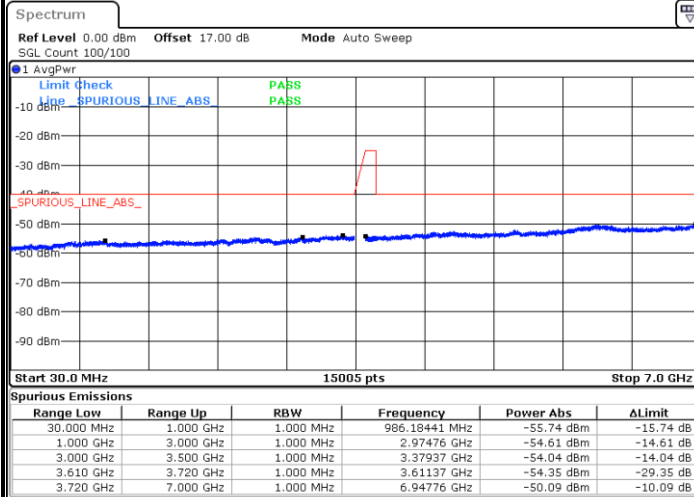




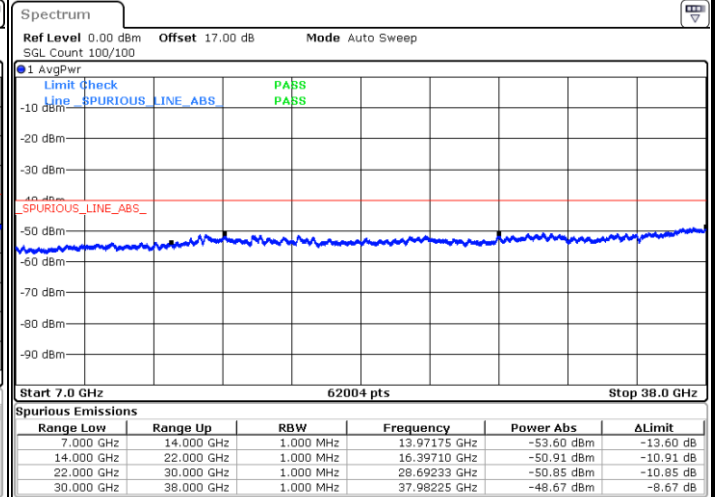
LTE Band 48 / 20MHz

Lowest Channel / QPSK



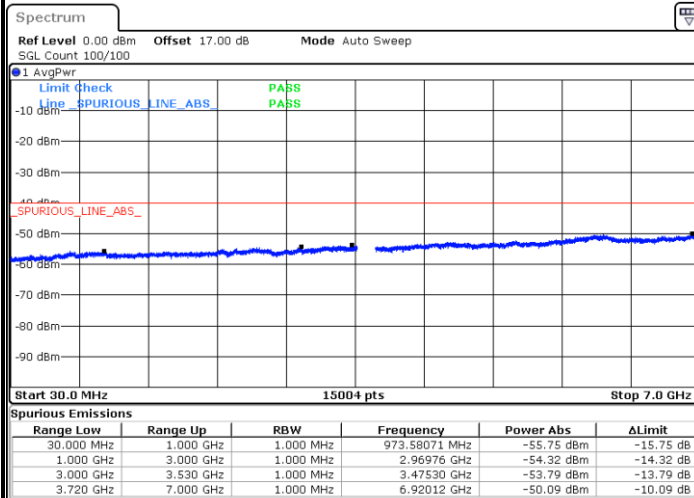
Date: 25.OCT.2021 19:56:55

Lowest Channel / QPSK



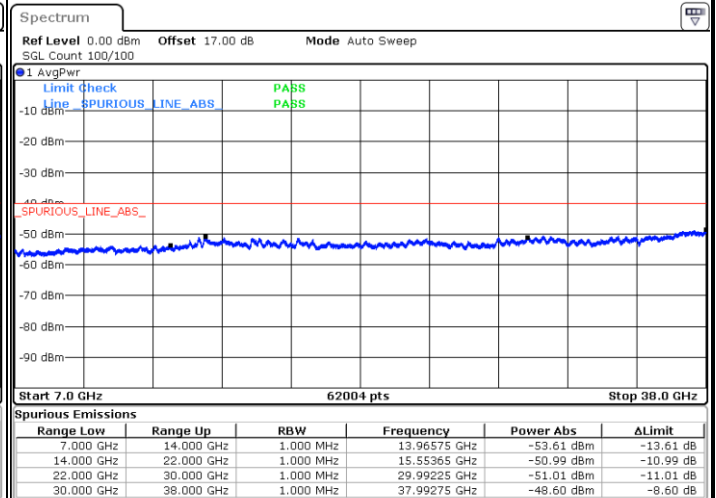
Date: 26.OCT.2021 21:57:39

Middle Channel / QPSK



Date: 25.OCT.2021 19:57:52

Middle Channel / QPSK

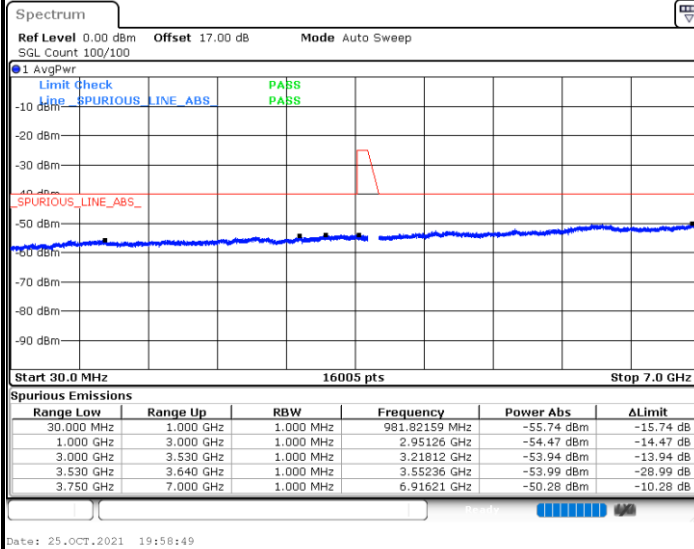


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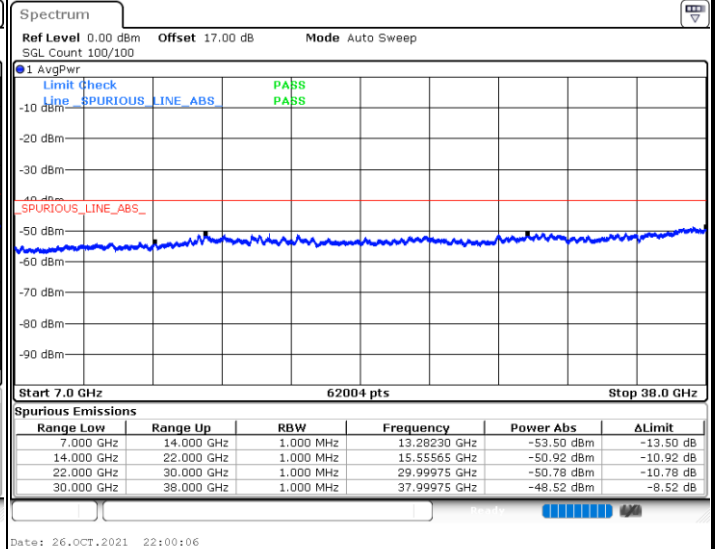


LTE Band 48 / 20MHz

Highest Channel / QPSK



Highest Channel / QPSK



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	0.0041	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0046	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (ACLRP) =3.4 V. ; Maximum Voltage =4.48 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	23.58	29.97	34.83	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.90	40.04	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.53	29.97	35.11	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.04	39.72	-

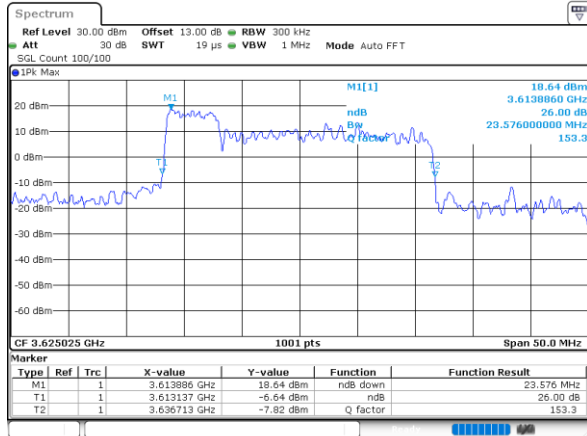
Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.48	29.97	34.97	25.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.15	34.90	39.72	-

Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.48	29.97	35.25	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.18	39.72	-

LTE Band 48C

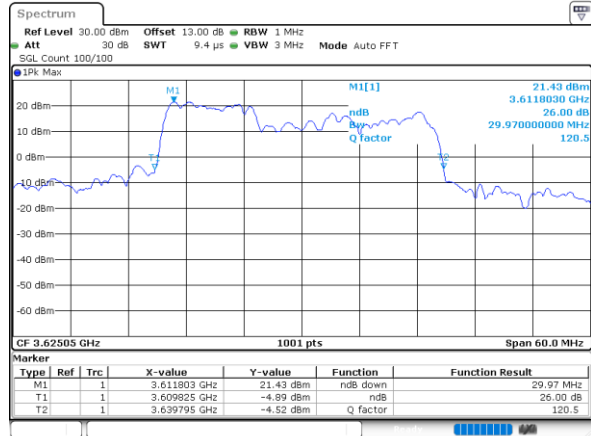
QPSK

Middle Channel / 5MHz+20MHz



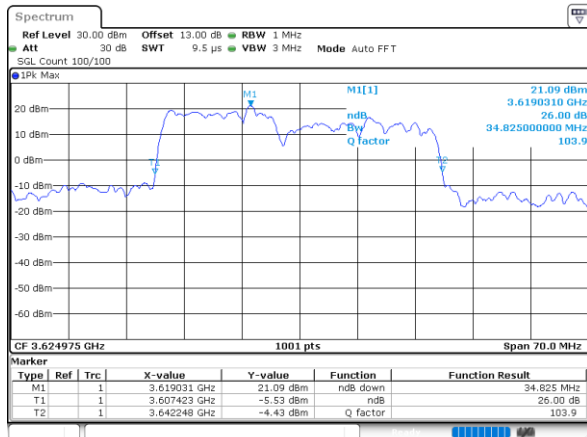
Date: 28.OCT.2021 19:33:32

Middle Channel / 10MHz+20MHz



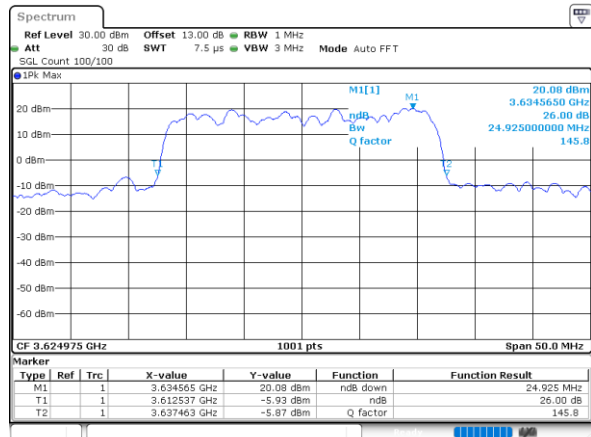
Date: 28.OCT.2021 20:12:59

Middle Channel / 15MHz+20MHz



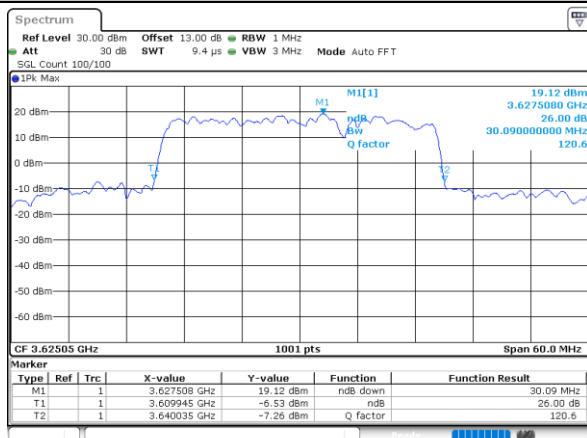
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Middle Channel / 20MHz+5MHz



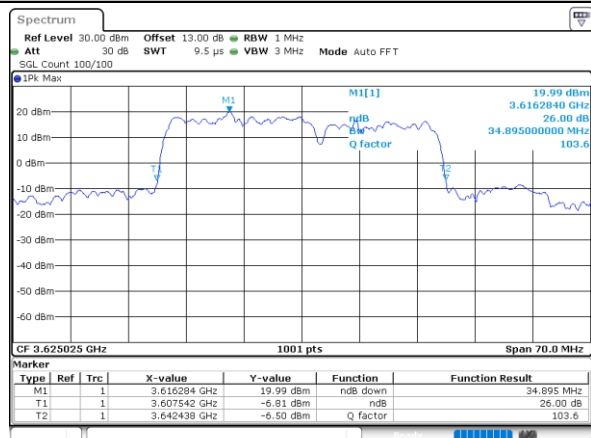
Date: 28.OCT.2021 19:38:16

Middle Channel / 20MHz+10MHz



Date: 28.OCT.2021 20:17:02

Middle Channel / 20MHz+15MHz



Date: 28.OCT.2021 20:25:53

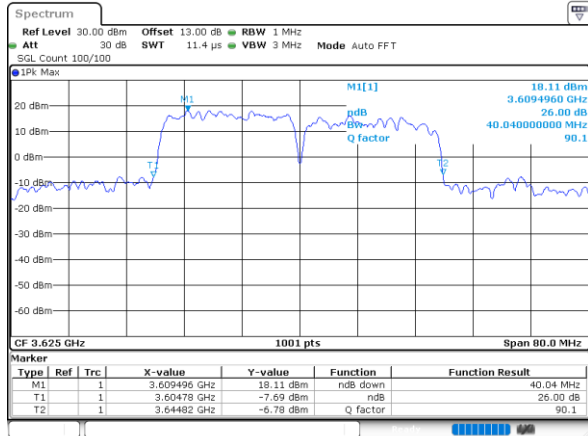


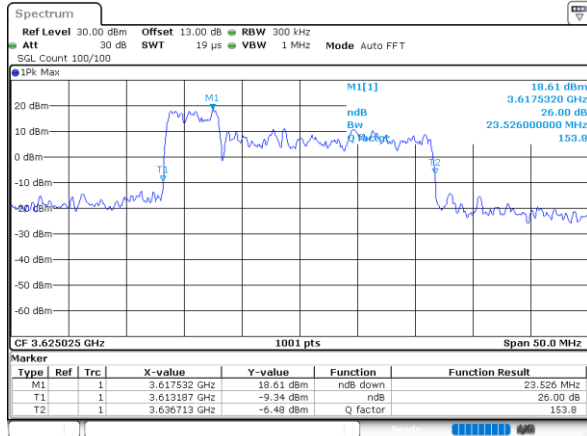
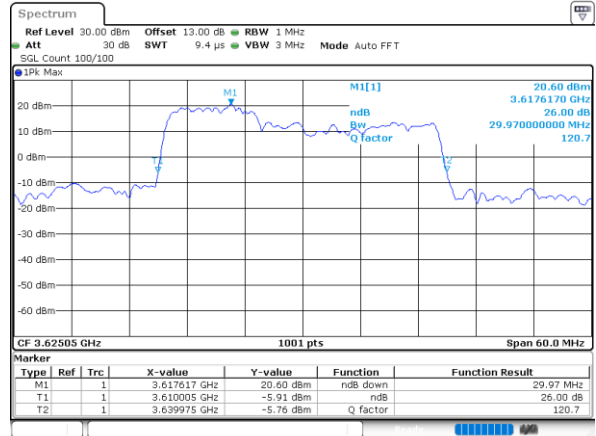
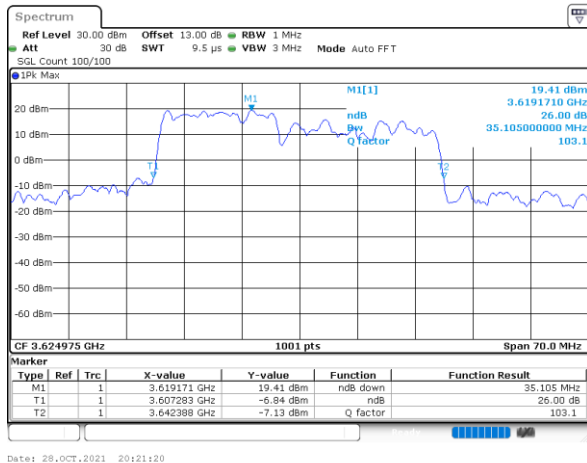
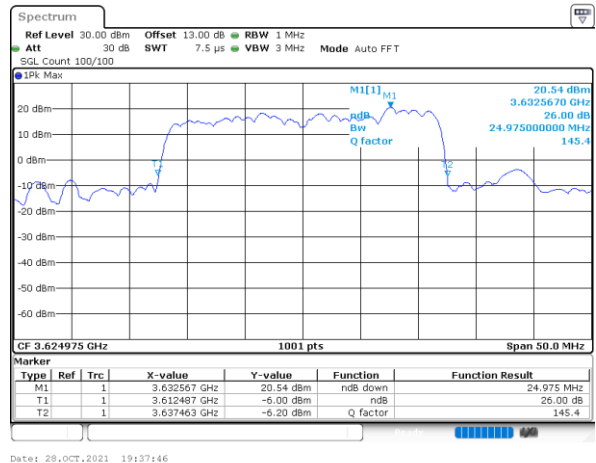
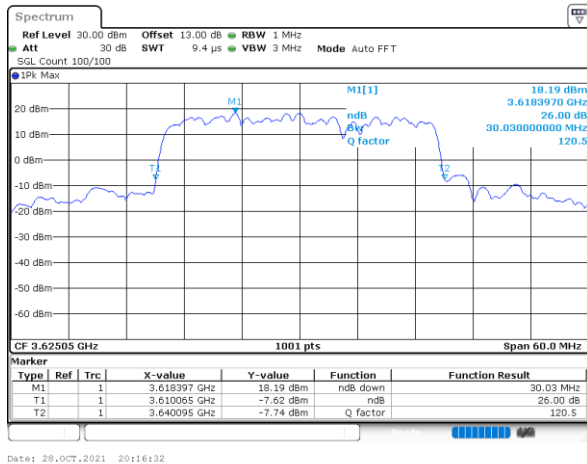
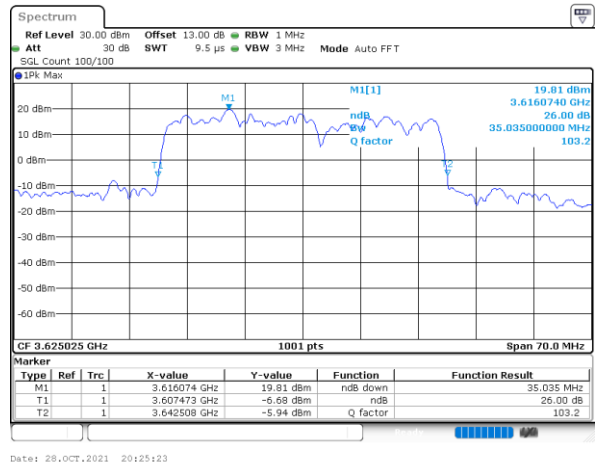
LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



LTE Band 48C
16QAM
Middle Channel / 5MHz+20MHz

Middle Channel / 10MHz+20MHz

Middle Channel / 15MHz+20MHz

Middle Channel / 20MHz+5MHz

Middle Channel / 20MHz+10MHz

Middle Channel / 20MHz+15MHz


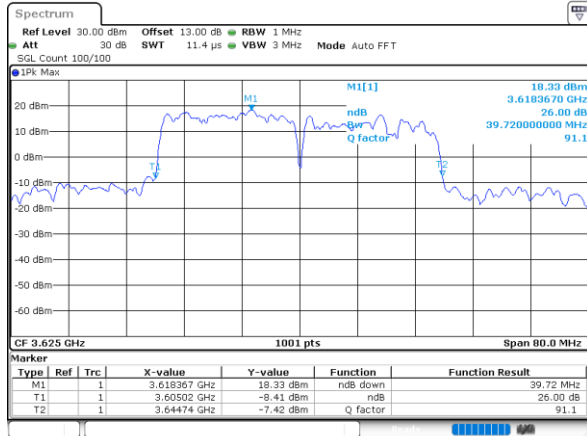


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

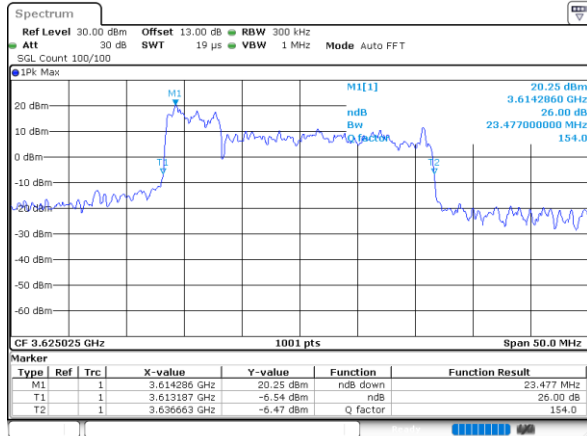




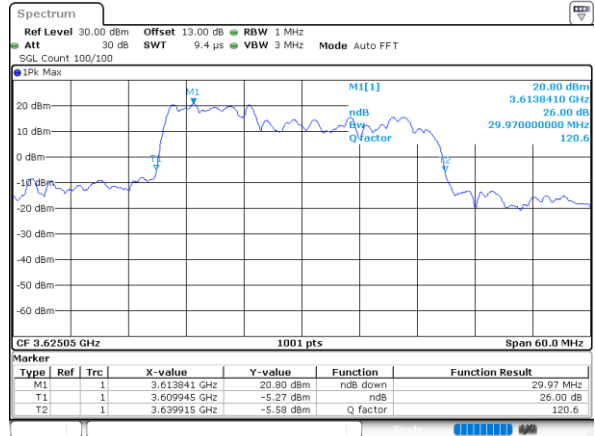
LTE Band 48C

64QAM

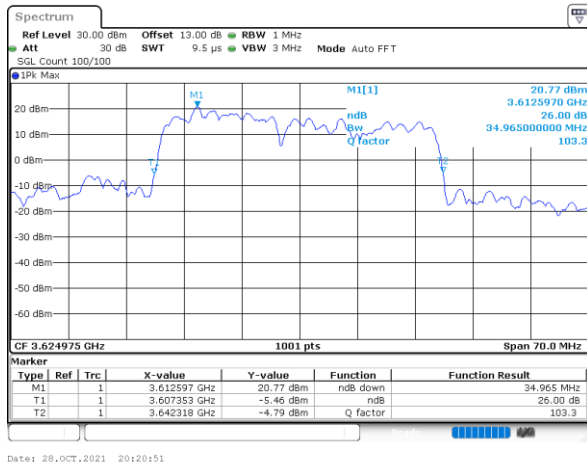
Middle Channel / 5MHz+20MHz



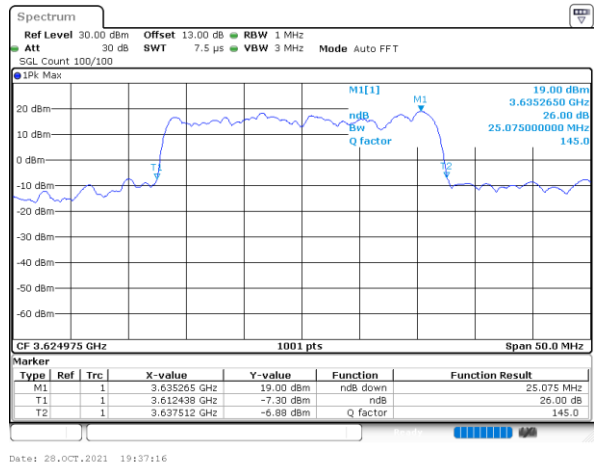
Middle Channel / 10MHz+20MHz



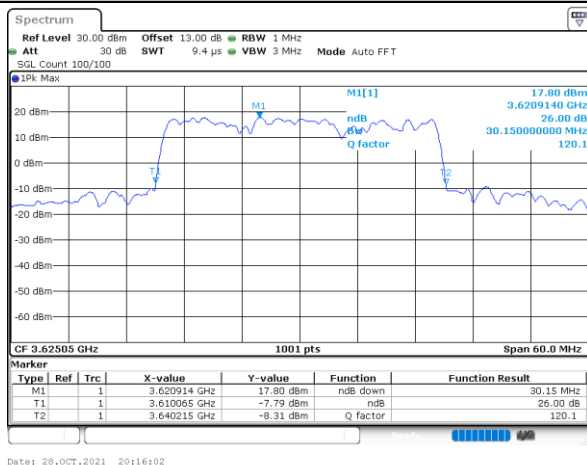
Middle Channel / 15MHz+20MHz



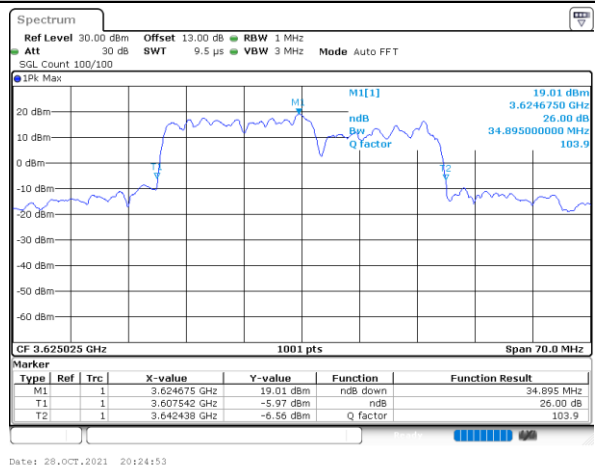
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



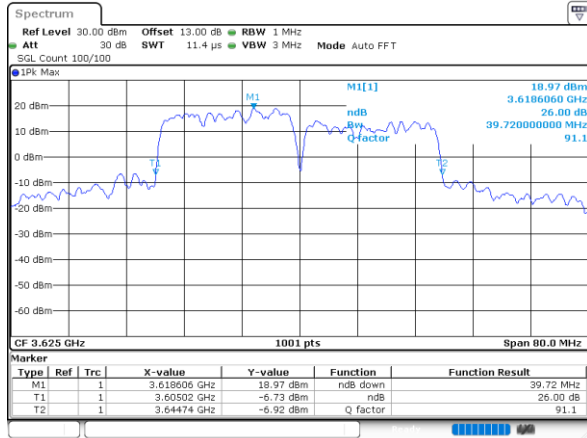


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

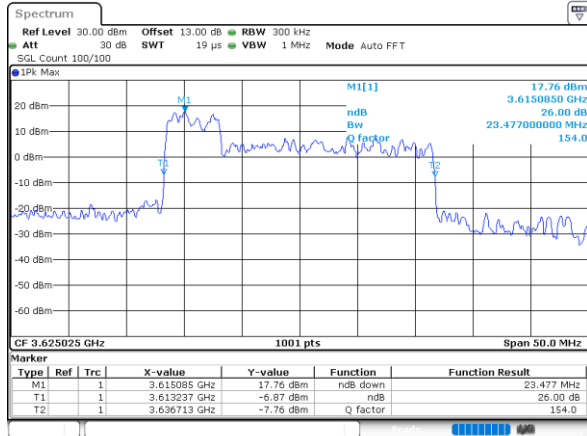




LTE Band 48C

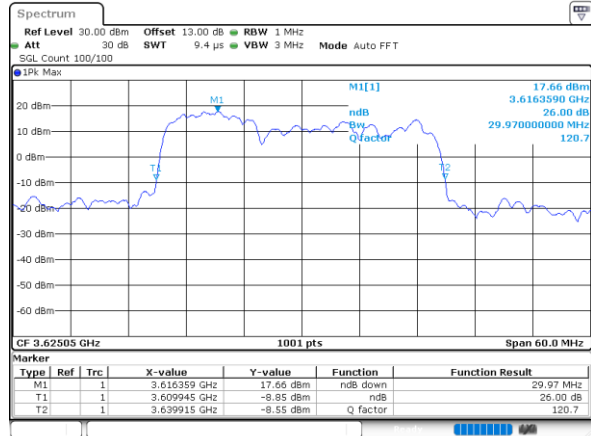
256QAM

Middle Channel / 5MHz+20MHz



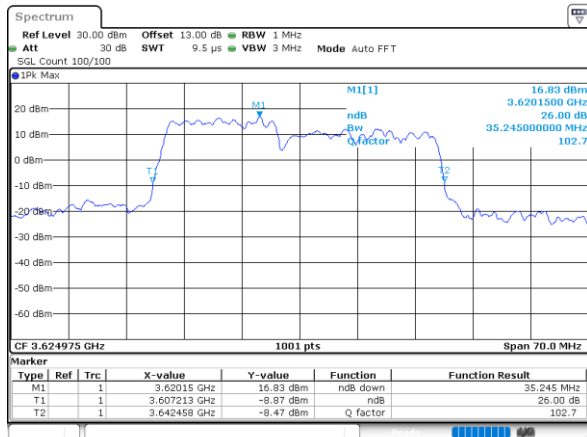
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Middle Channel / 10MHz+20MHz



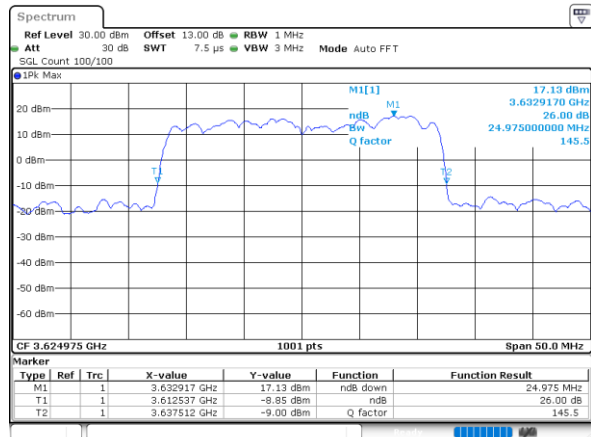
Date: 28.OCT.2021 20:13:29

Middle Channel / 15MHz+20MHz



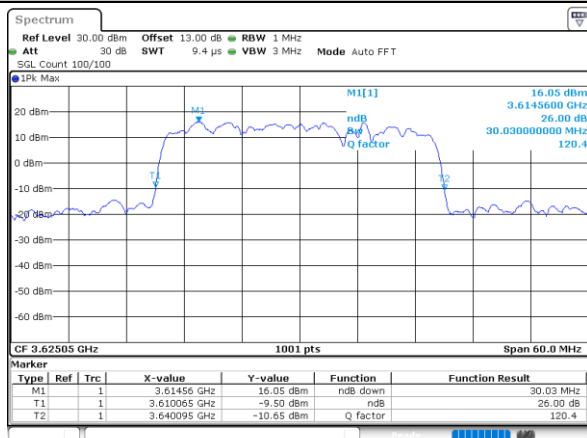
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Middle Channel / 20MHz+5MHz



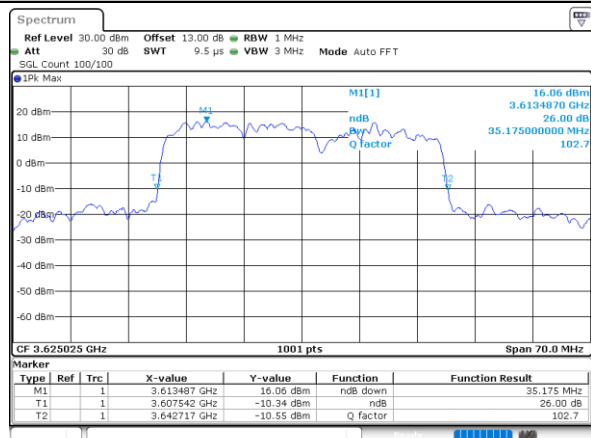
Date: 28.OCT.2021 19:38:46

Middle Channel / 20MHz+10MHz



Date: 28.OCT.2021 20:17:32

Middle Channel / 20MHz+15MHz



Date: 28.OCT.2021 20:26:23

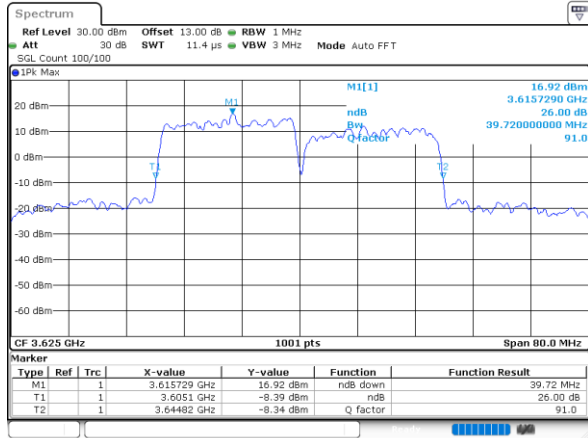


LTE Band 48C

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	22.78	27.75	32.73	23.43
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.23	32.66	37.88	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.73	28.11	32.80	23.53
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.94	37.64	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.73	27.93	32.87	23.33
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.29	32.87	37.88	-

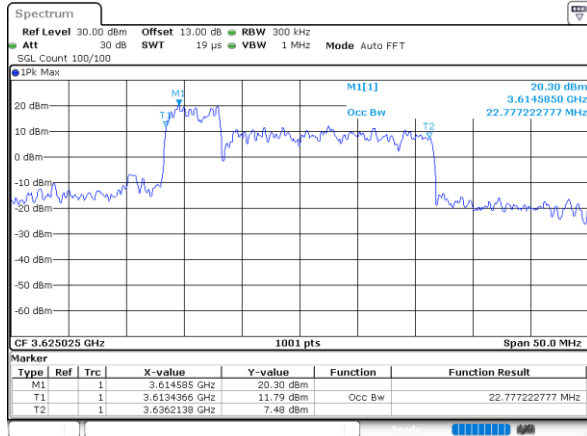
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.73	27.99	33.01	23.38
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.81	32.59	37.56	-



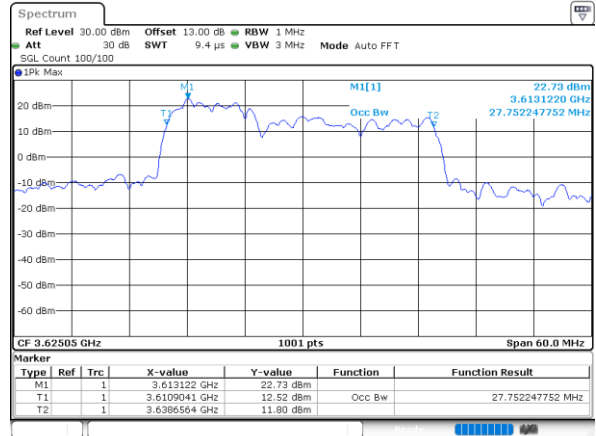
LTE Band 48C

QPSK

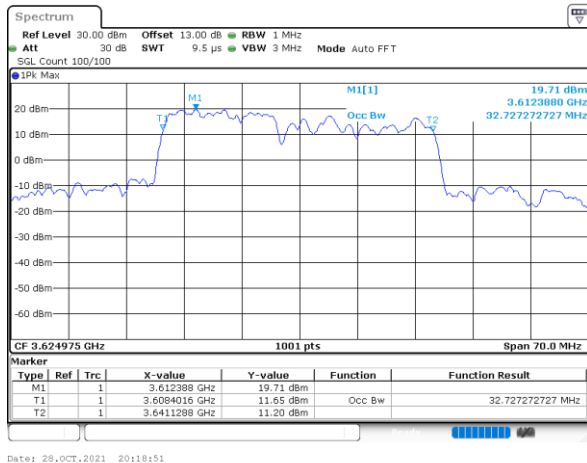
Middle Channel / 5MHz+20MHz



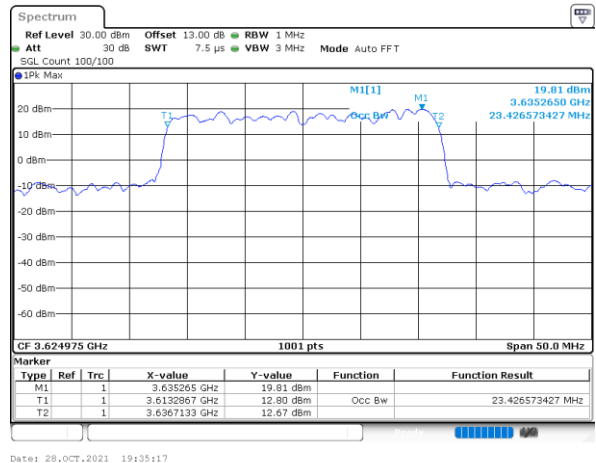
Middle Channel / 10MHz+20MHz



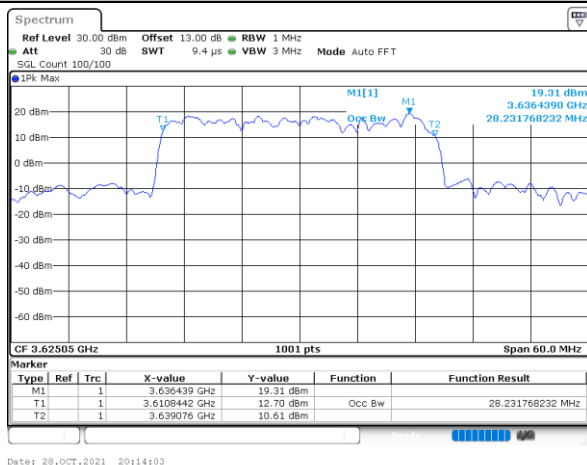
Middle Channel / 15MHz+20MHz



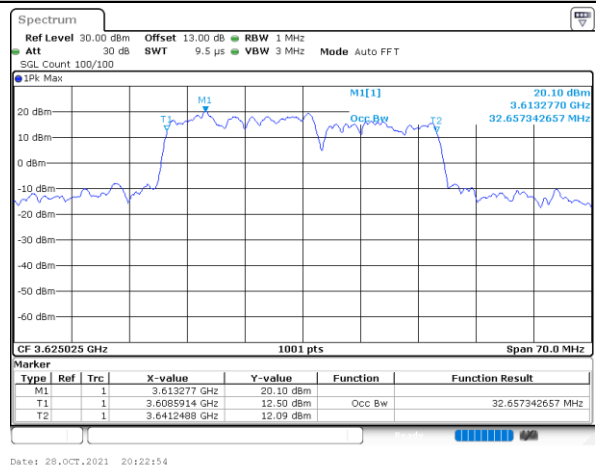
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



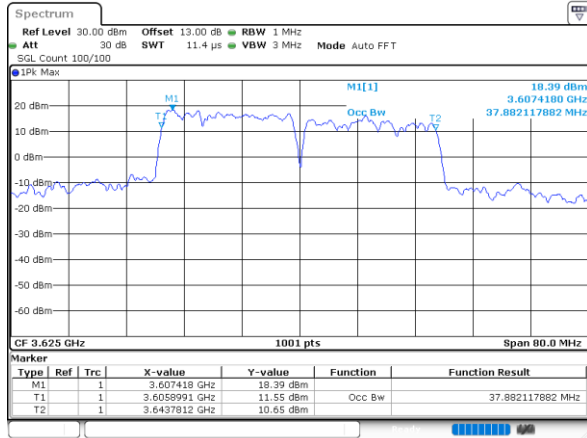


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

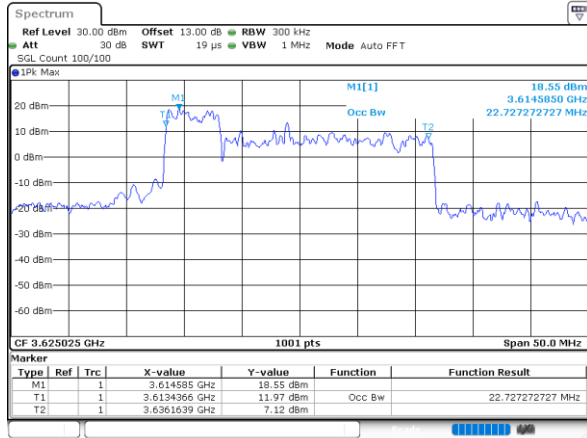




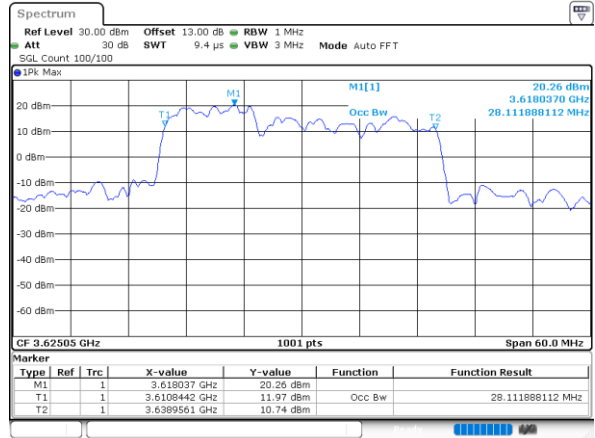
LTE Band 48C

16QAM

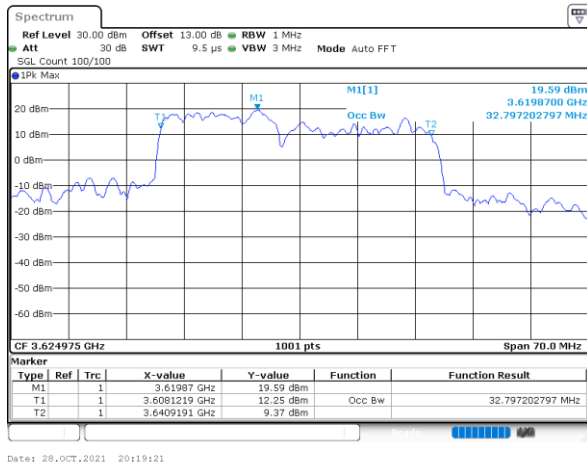
Middle Channel / 5MHz+20MHz



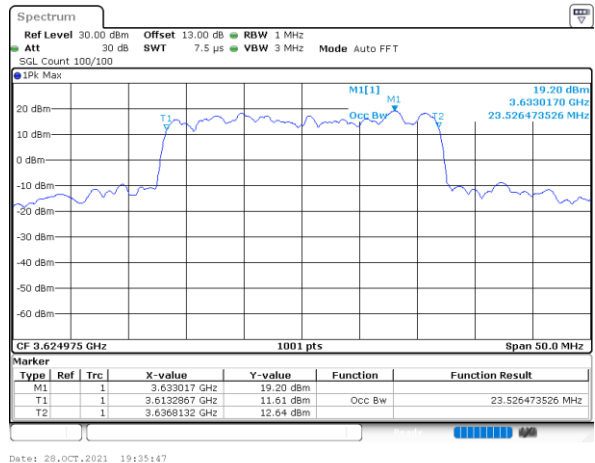
Middle Channel / 10MHz+20MHz



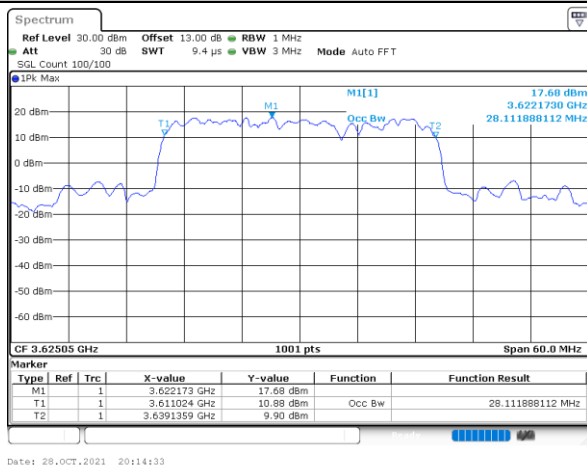
Middle Channel / 15MHz+20MHz



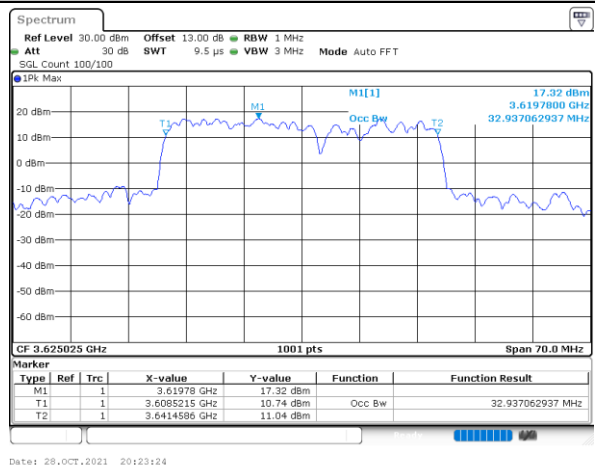
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



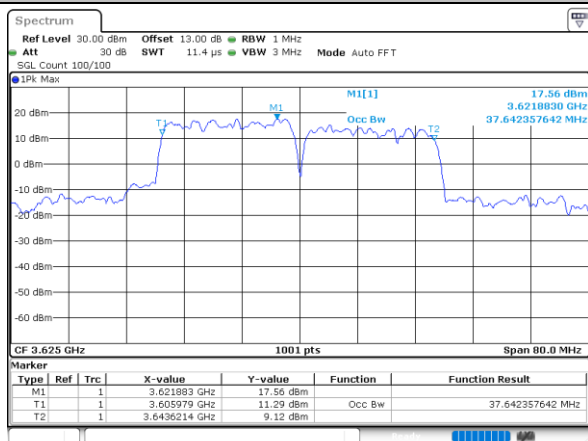


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

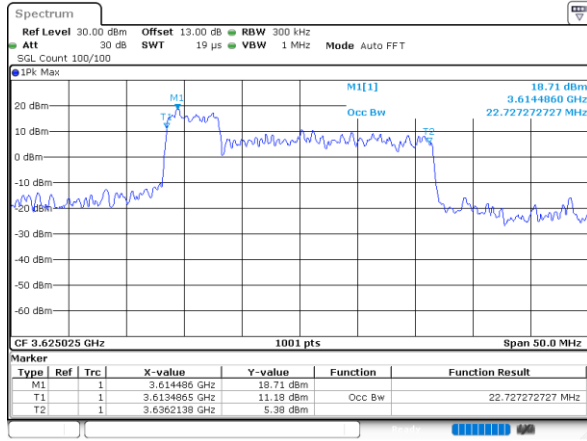




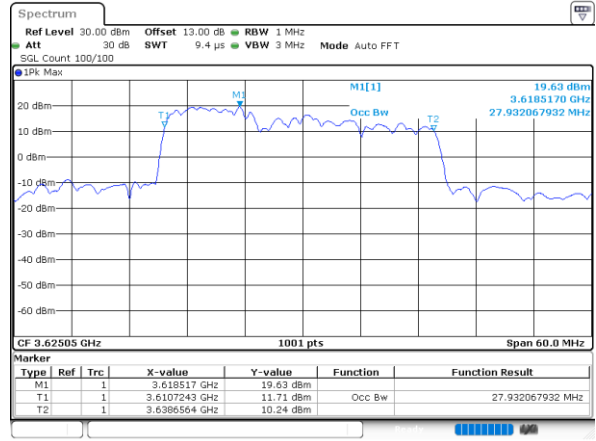
LTE Band 48C

64QAM

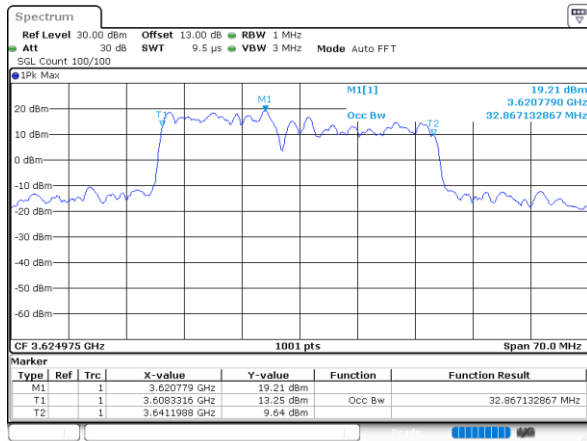
Middle Channel / 5MHz+20MHz



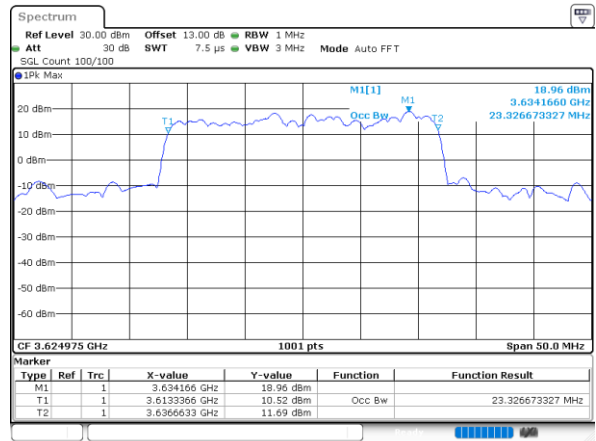
Middle Channel / 10MHz+20MHz



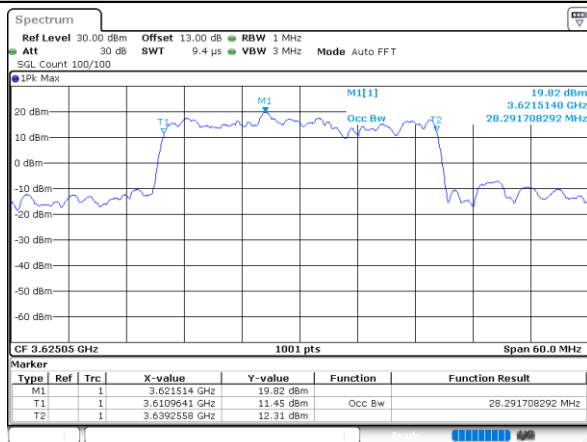
Middle Channel / 15MHz+20MHz



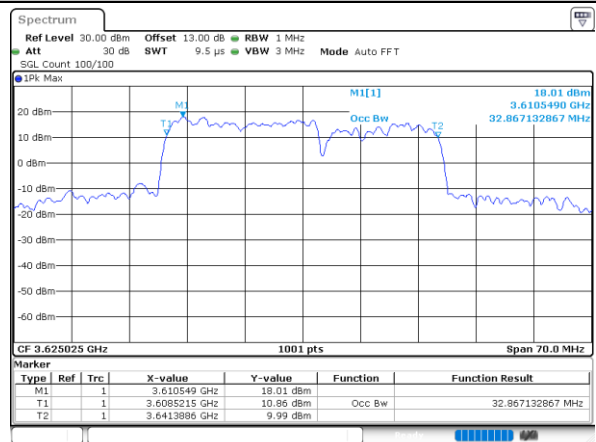
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



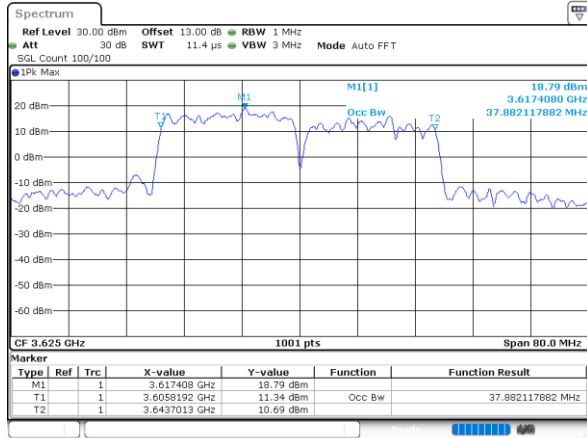


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

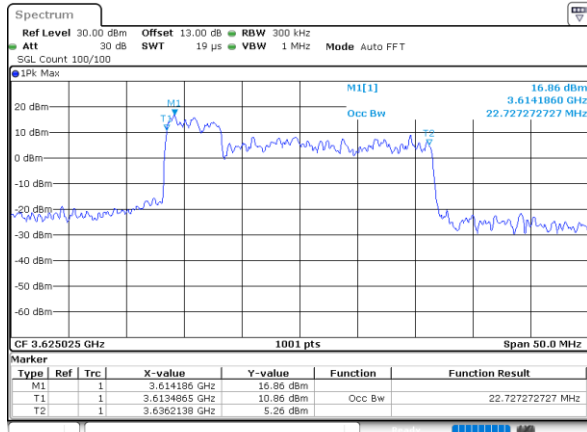




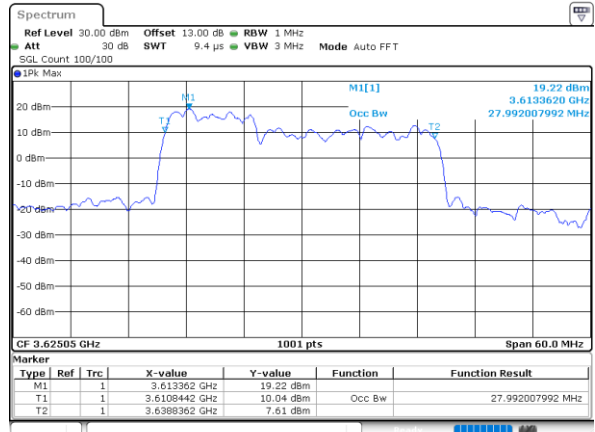
LTE Band 48C

256QAM

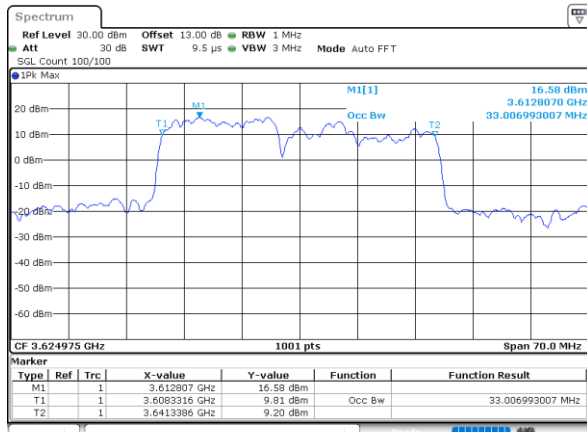
Middle Channel / 5MHz+20MHz



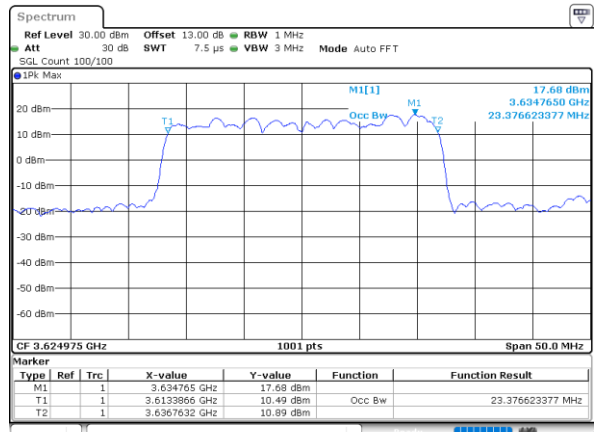
Middle Channel / 10MHz+20MHz



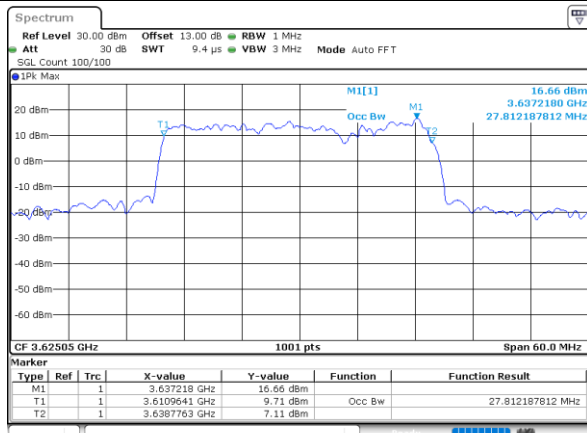
Middle Channel / 15MHz+20MHz



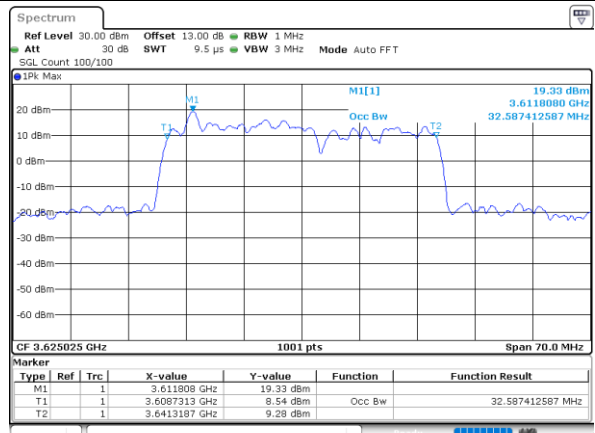
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



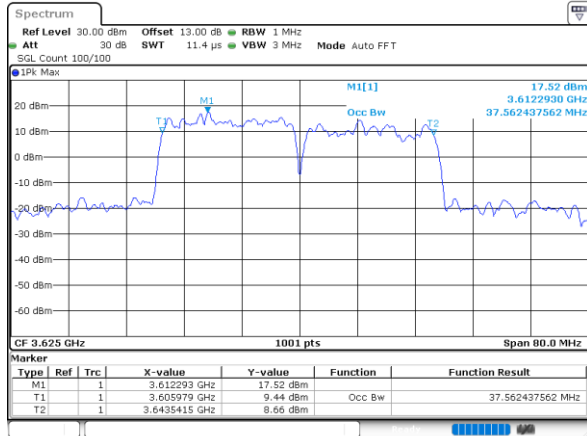


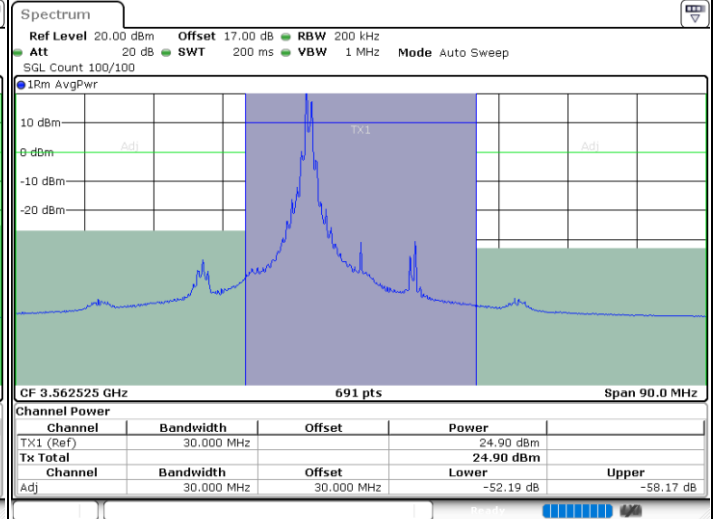
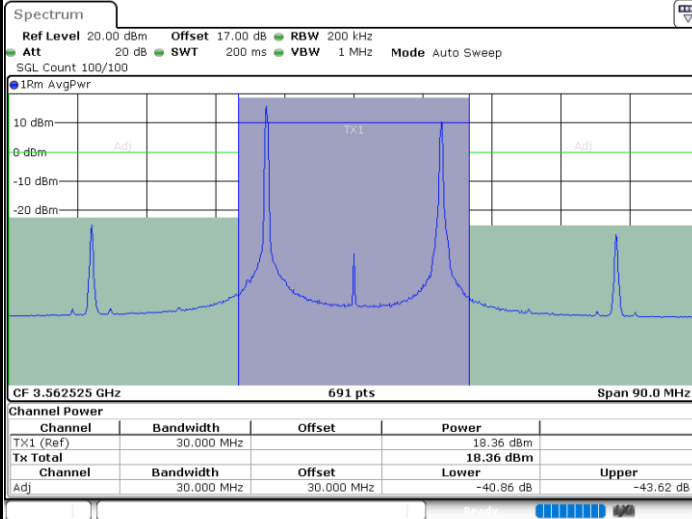
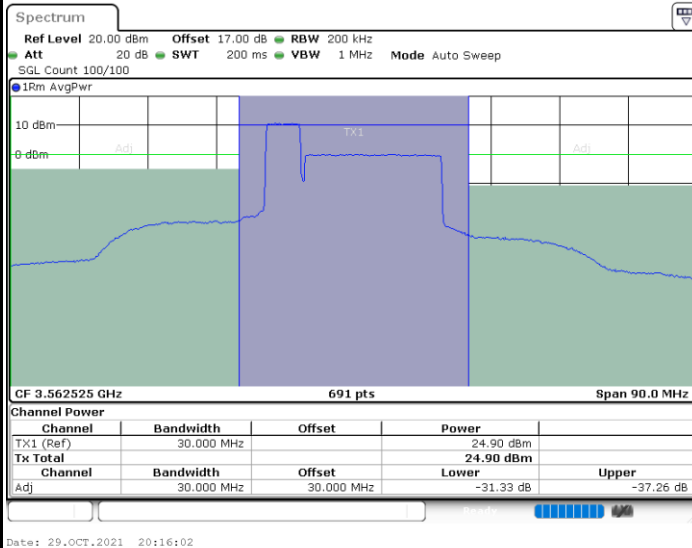
LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A



**ACLR****LTE Band 48C / 5MHz+20MHz****QPSK****Lowest Channel / 1RB0 and 1RB99****Lowest Channel / 1RB24 and 1RB0****Lowest Channel / FullIRB****N/A**

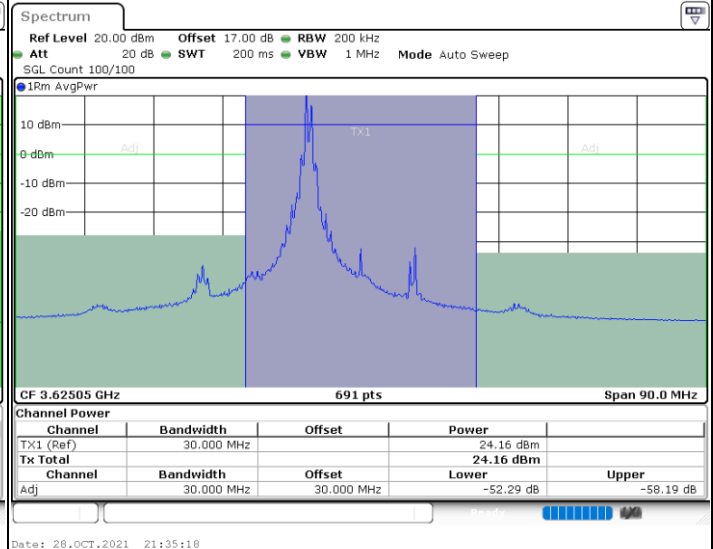
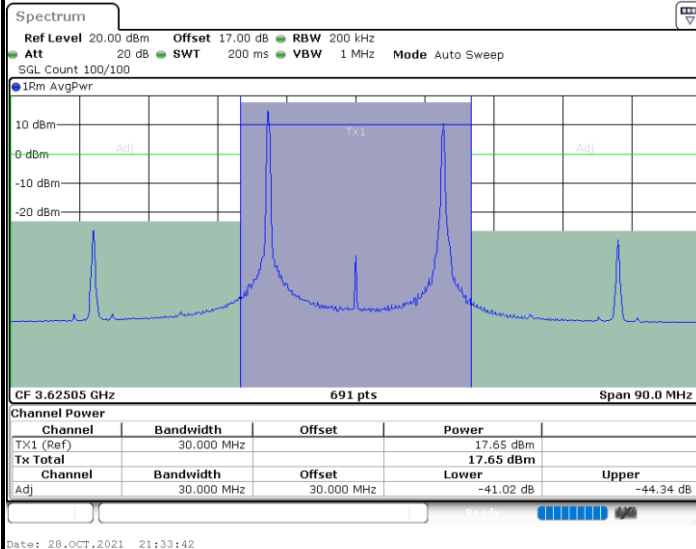


LTE Band 48C / 5MHz+20MHz

QPSK

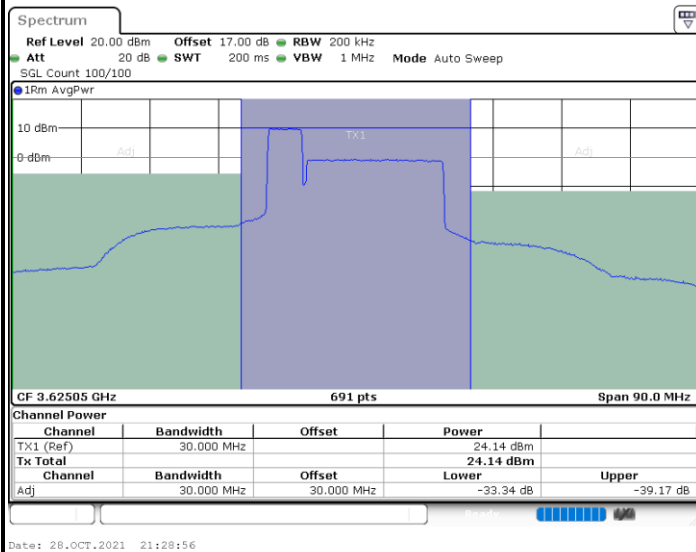
Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB24 and 1RB0



Middle Channel / FullRB

N/A



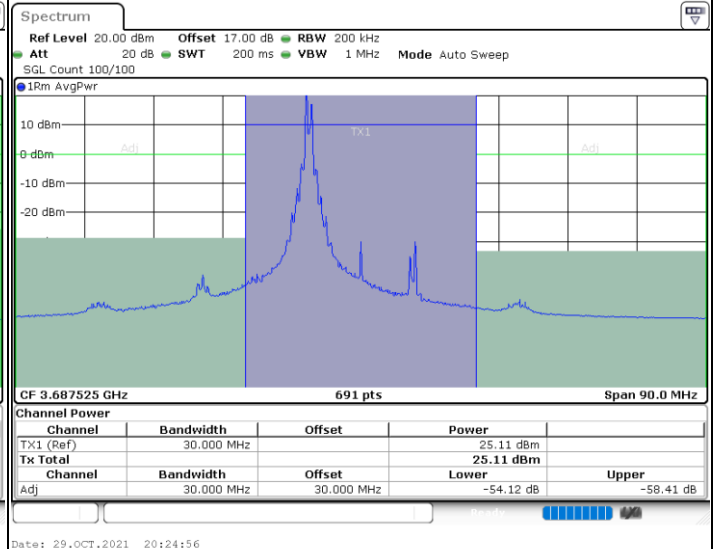
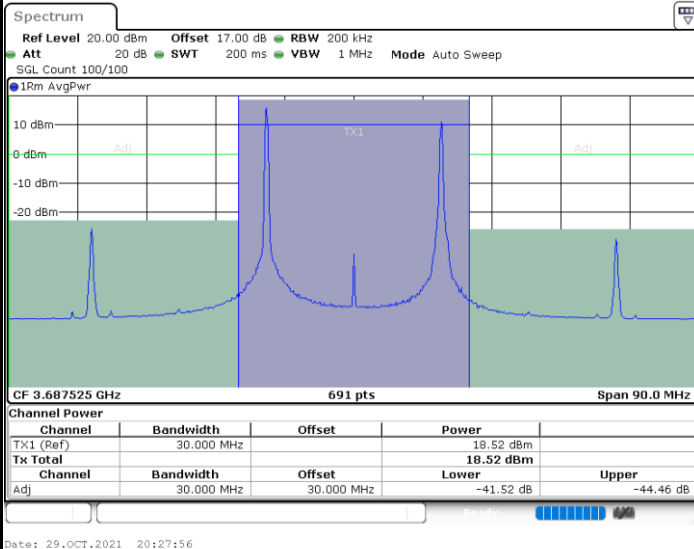


LTE Band 48C / 5MHz+20MHz

QPSK

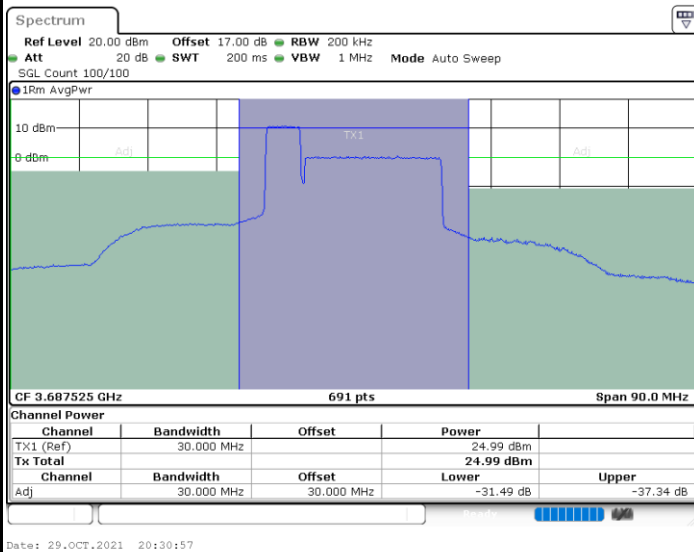
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



Highest Channel / FullRB

N/A



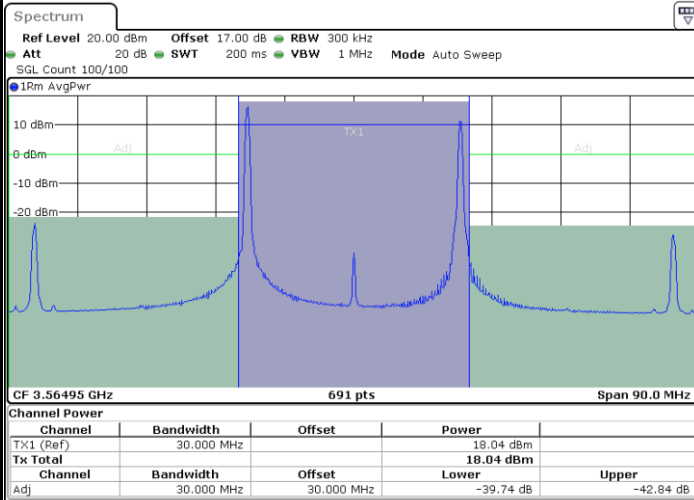


LTE Band 48C / 10MHz+20MHz

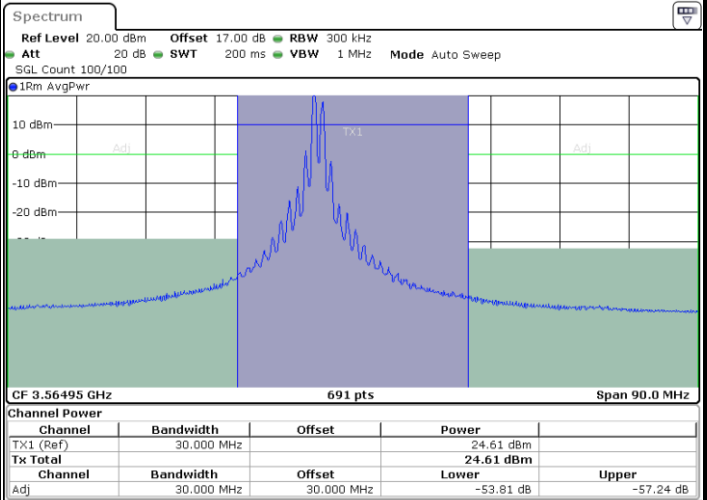
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



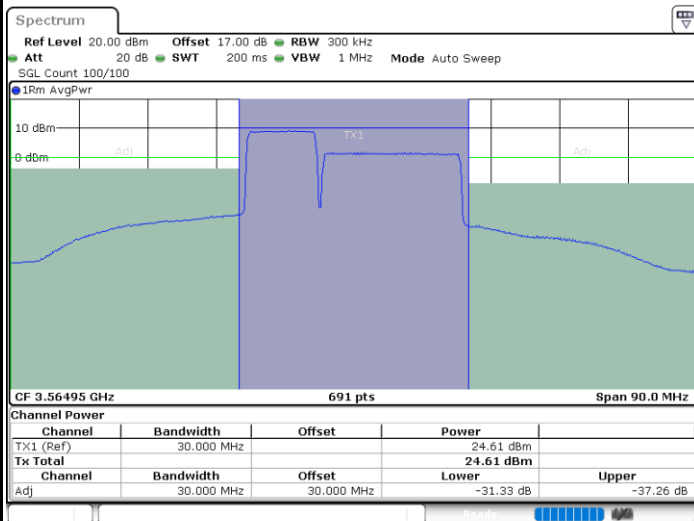
Date: 29.OCT.2021 14:52:04



Date: 29.OCT.2021 14:49:03

Lowest Channel / FullRB

N/A



Date: 29.OCT.2021 14:55:05

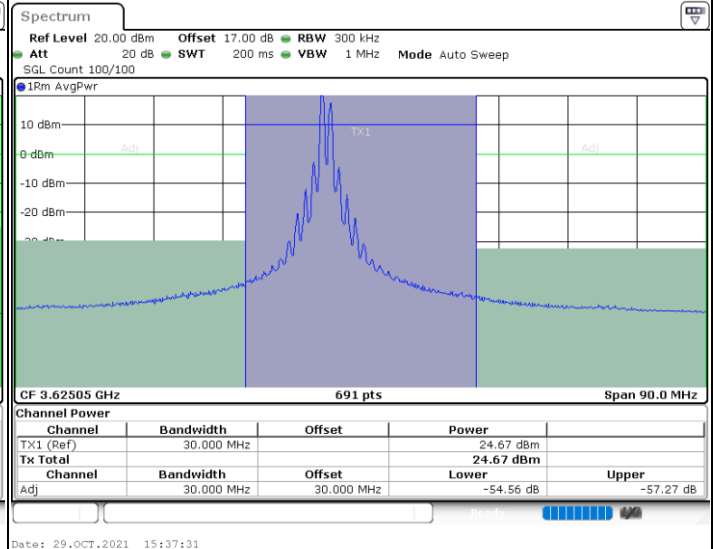
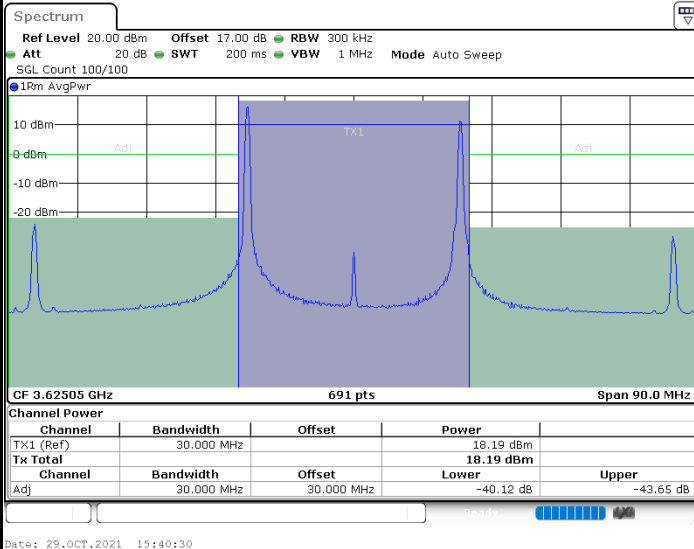


LTE Band 48C / 10MHz+20MHz

QPSK

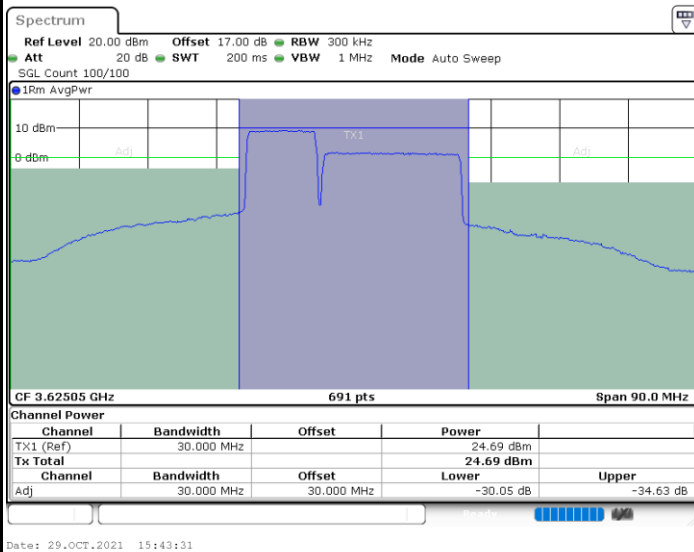
Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB49 and 1RB0



Middle Channel / FullRB

N/A



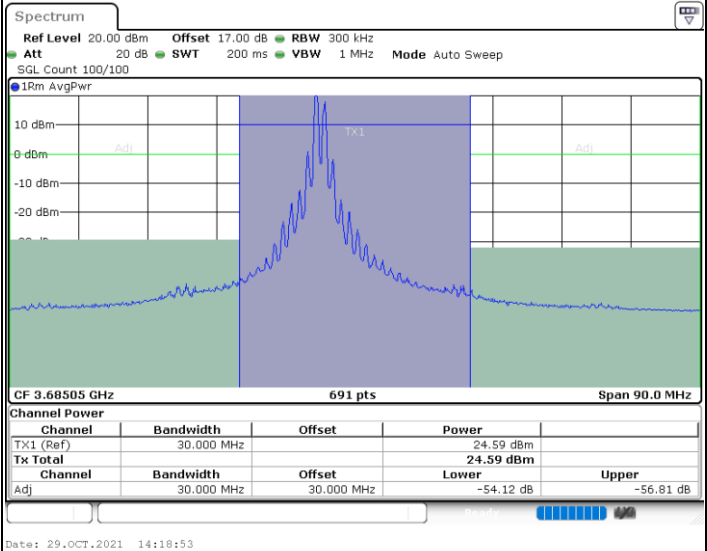
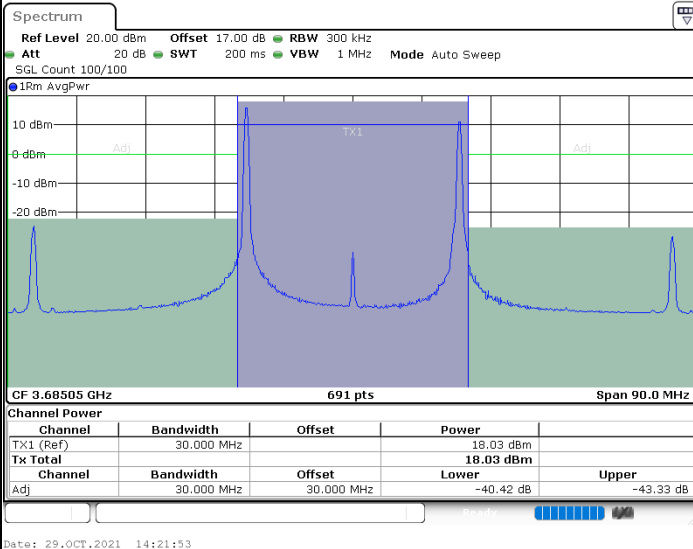


LTE Band 48C / 10MHz+20MHz

QPSK

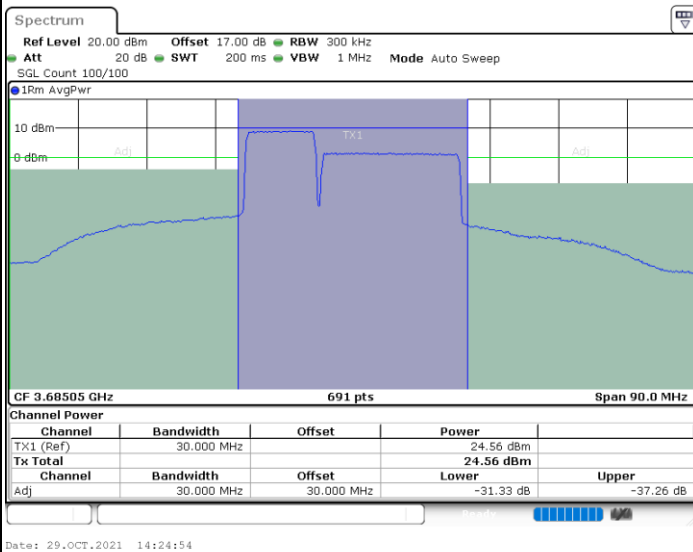
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullRB

N/A



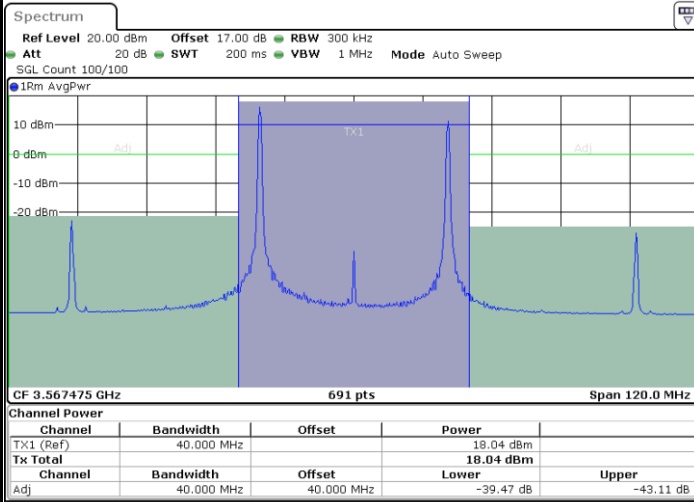


LTE Band 48C / 15MHz+20MHz

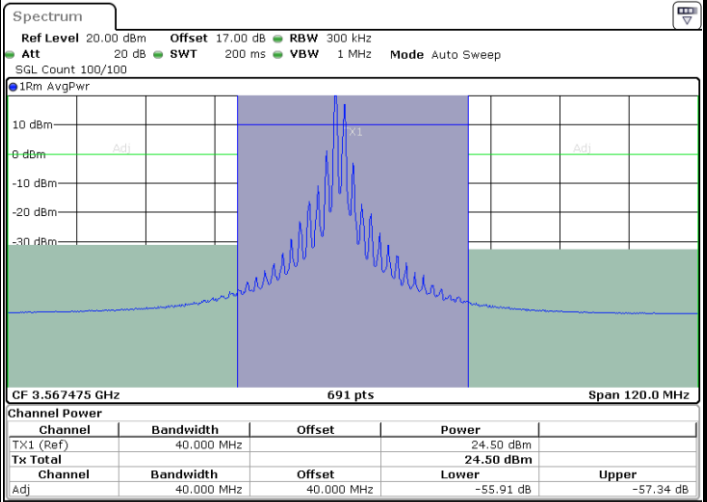
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



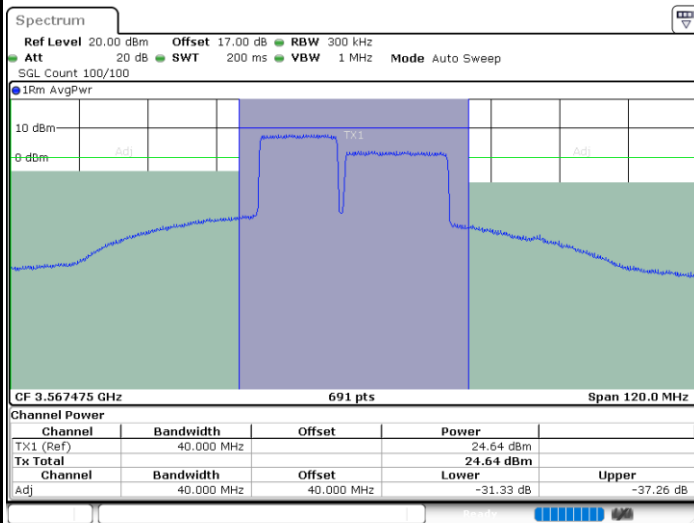
Date: 29.OCT.2021 17:39:17



Date: 29.OCT.2021 17:36:17

Lowest Channel / FullRB

N/A



Date: 29.OCT.2021 17:42:18

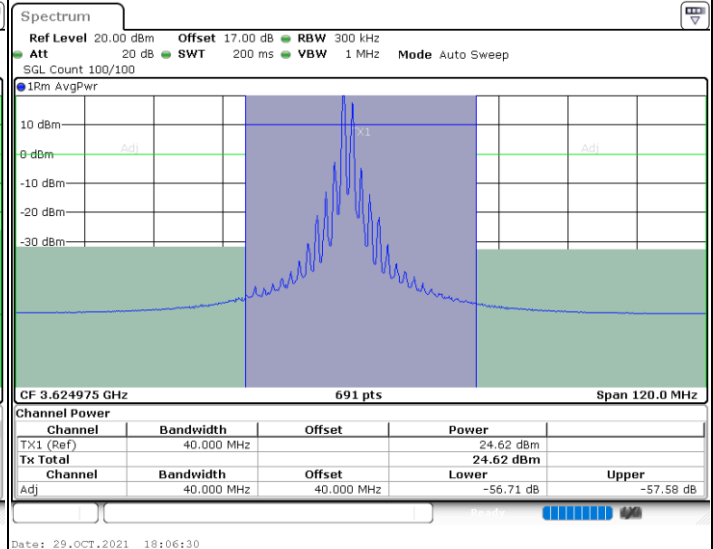
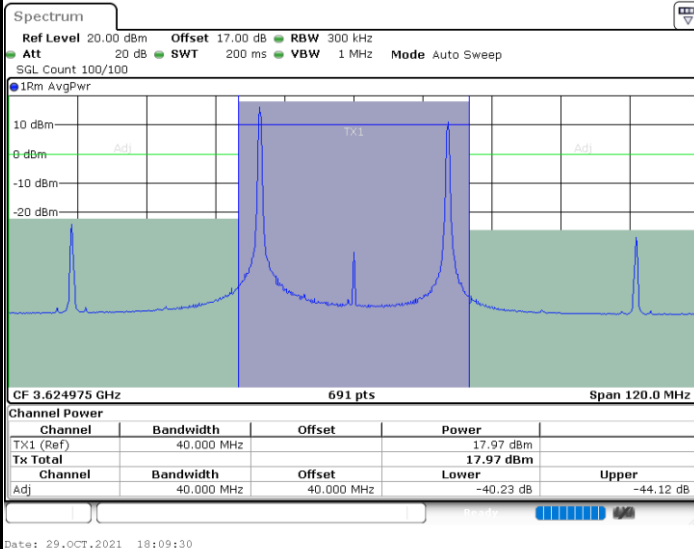


LTE Band 48C / 15MHz+20MHz

QPSK

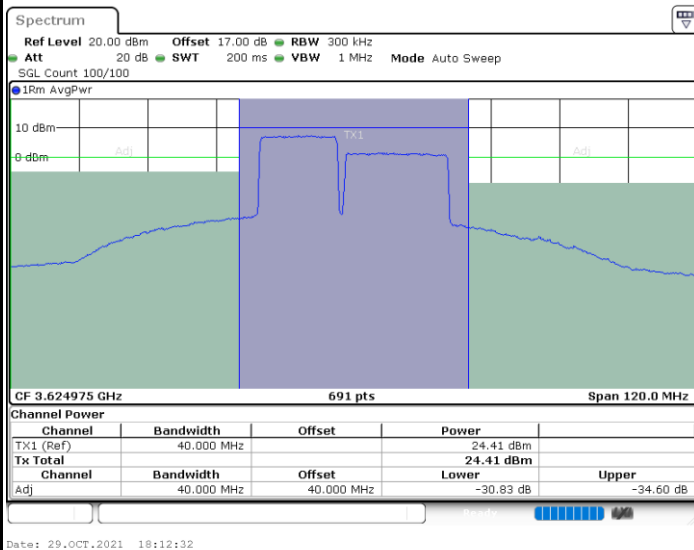
Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0



Middle Channel / FullRB

N/A



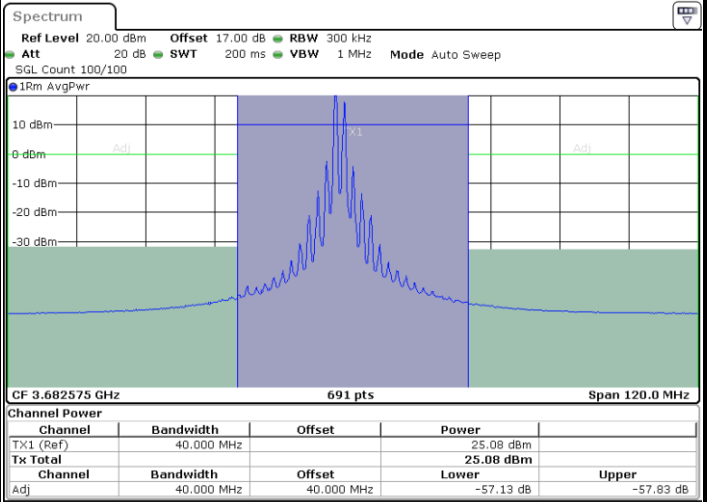
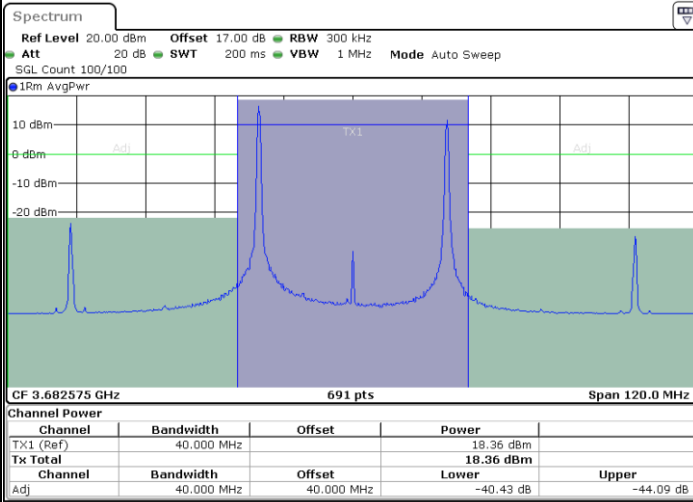


LTE Band 48C / 15MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0

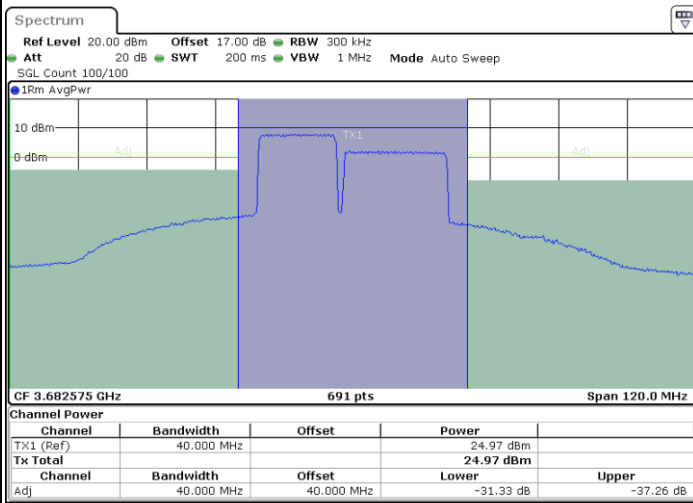


Date: 29.OCT.2021 19:16:47

Date: 29.OCT.2021 19:13:46

Highest Channel / FullIRB

N/A



Date: 29.OCT.2021 19:19:47

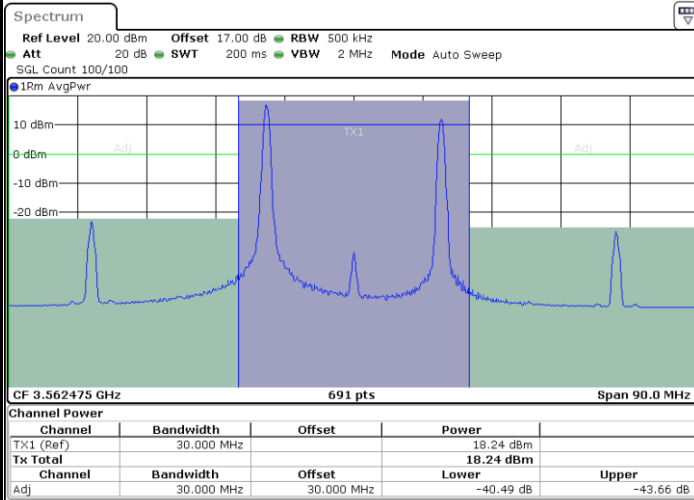


LTE Band 48C / 20MHz+5MHz

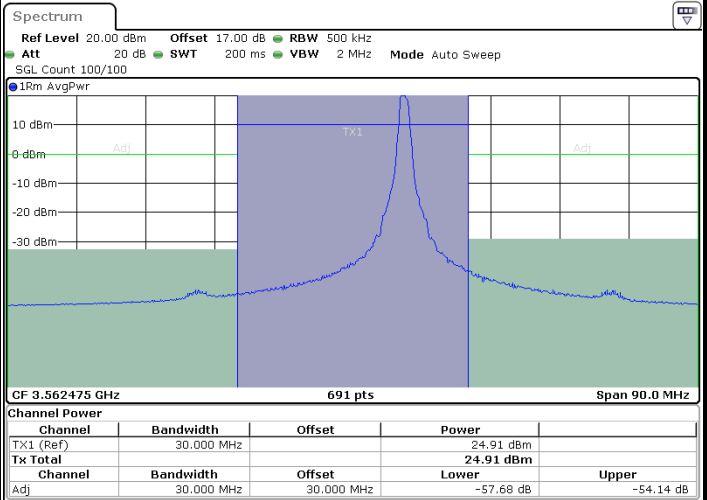
QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



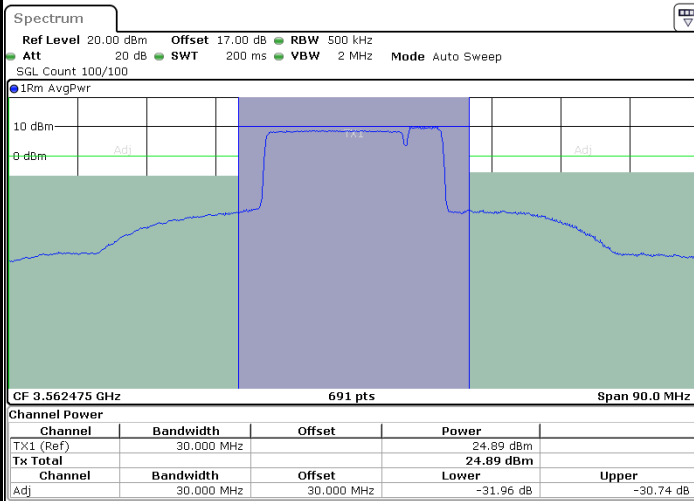
Date: 29.OCT.2021 20:40:56



Date: 29.OCT.2021 20:37:52

Lowest Channel / FullRB

N/A



Date: 29.OCT.2021 20:43:59

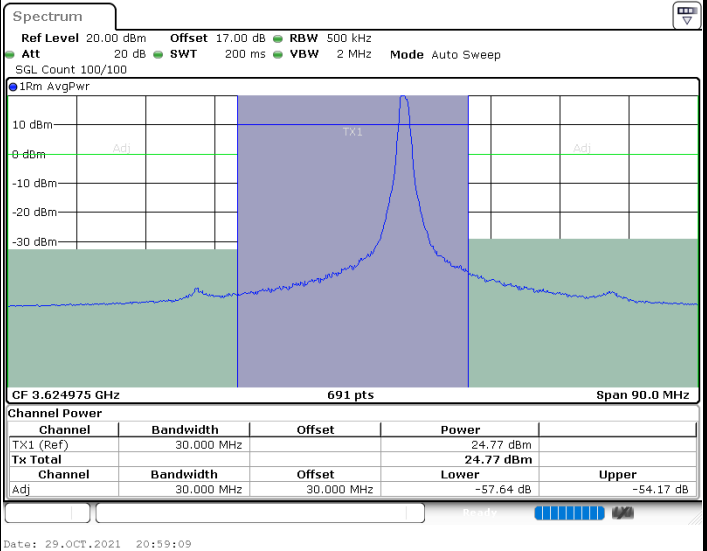
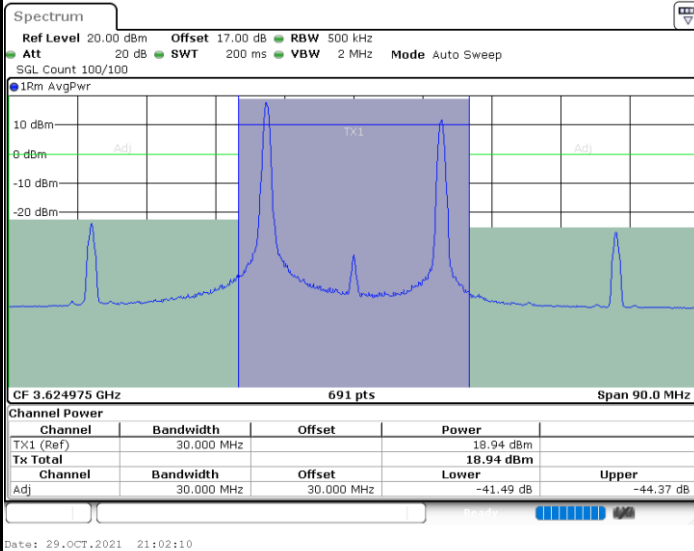


LTE Band 48C / 20MHz+5MHz

QPSK

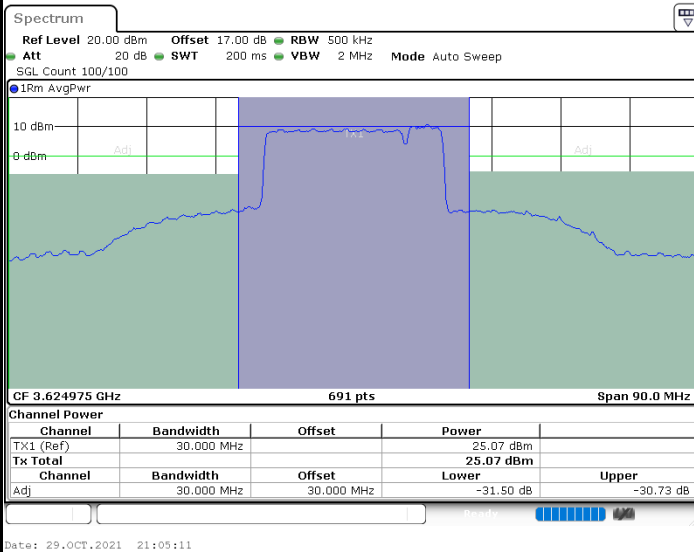
Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullRB

N/A



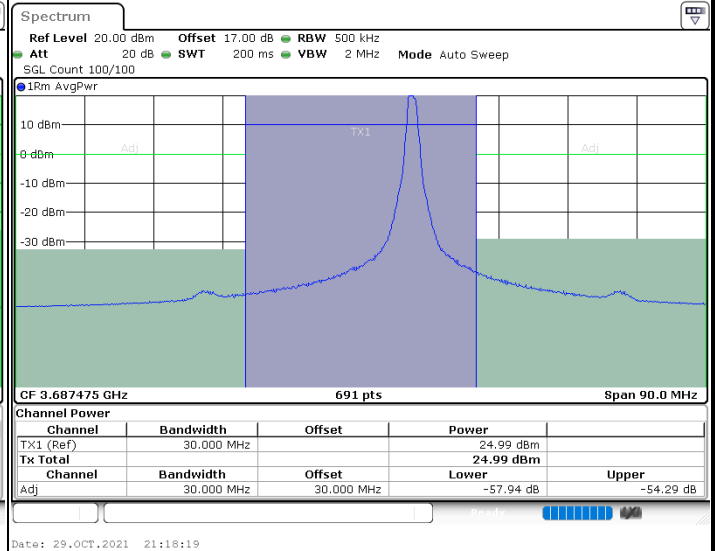
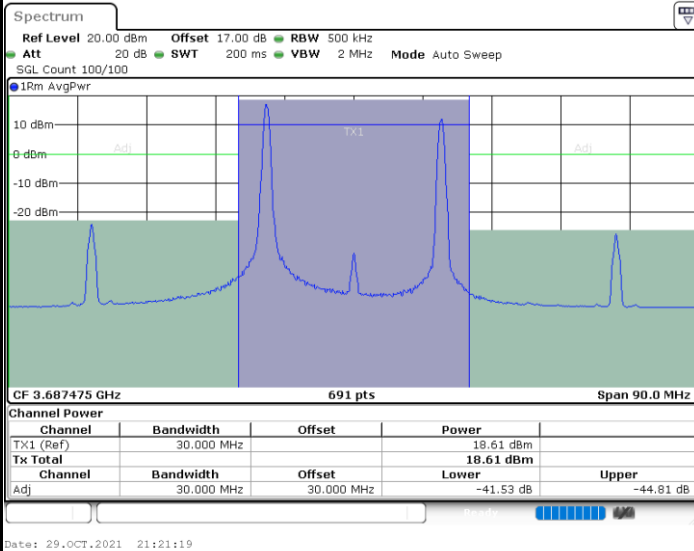


LTE Band 48C / 20MHz+5MHz

QPSK

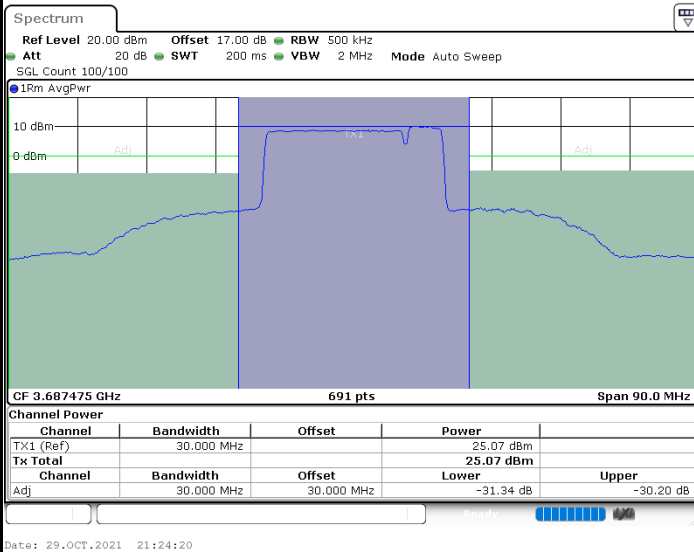
Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullRB

N/A



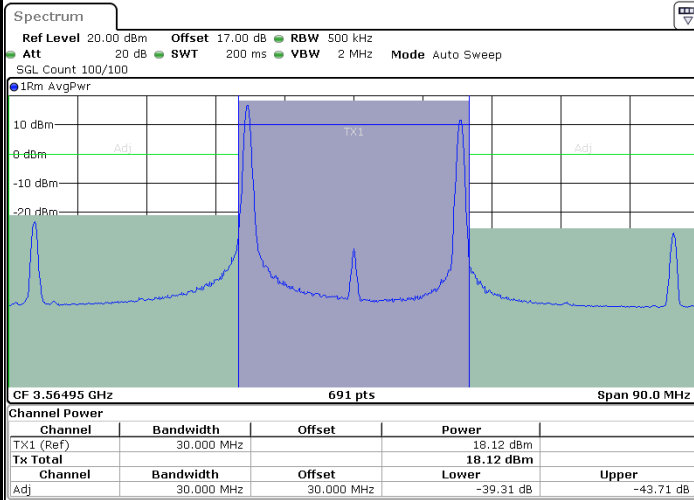


LTE Band 48C / 20MHz+10MHz

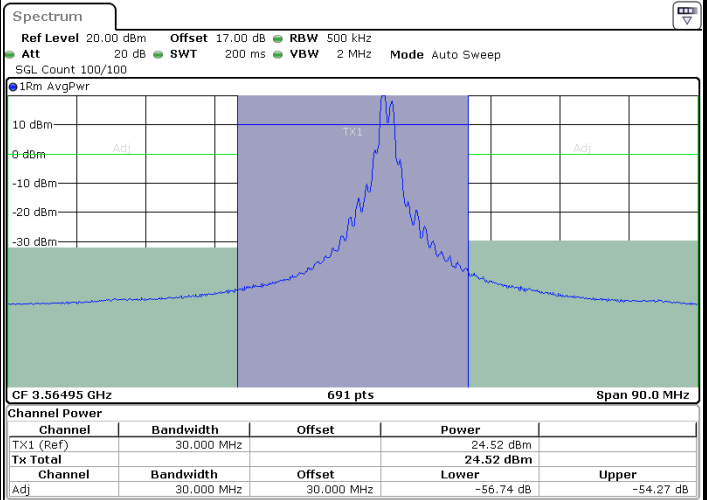
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



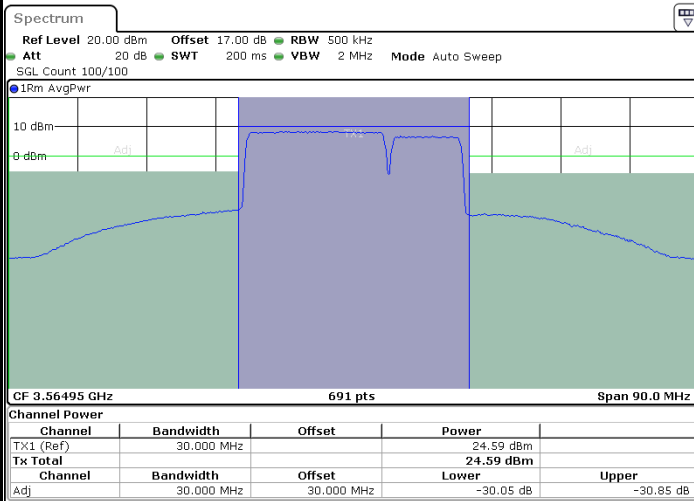
Date: 29.OCT.2021 16:13:20



Date: 29.OCT.2021 16:10:17

Lowest Channel / FullRB

N/A



Date: 29.OCT.2021 16:16:24

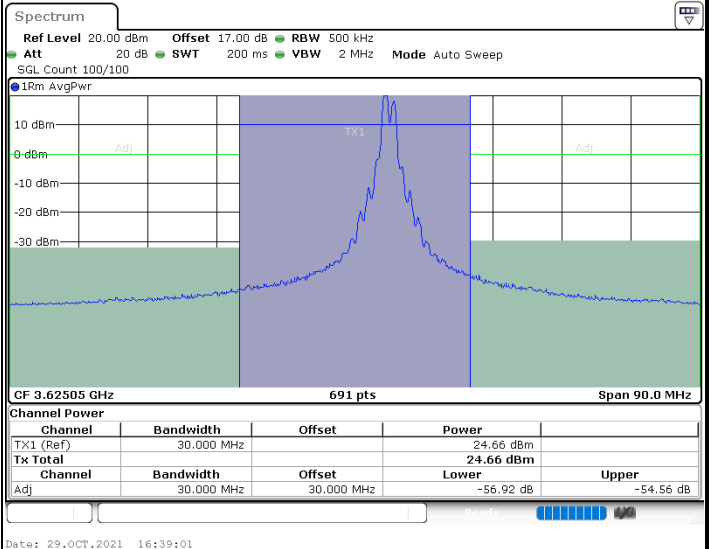
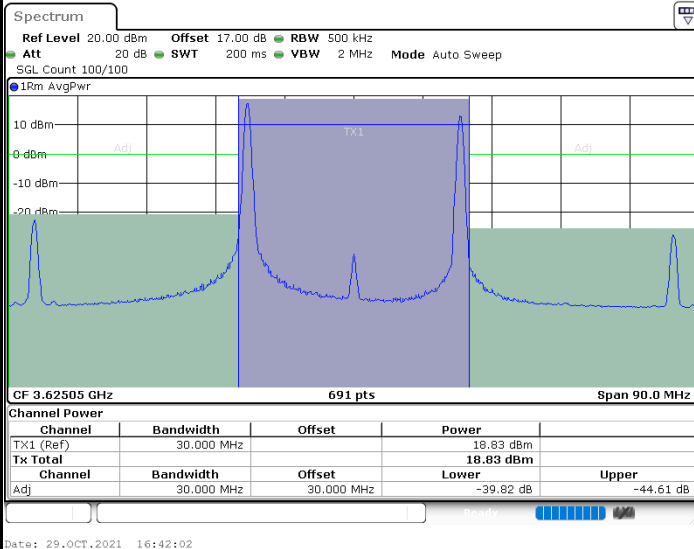


LTE Band 48C / 20MHz+10MHz

QPSK

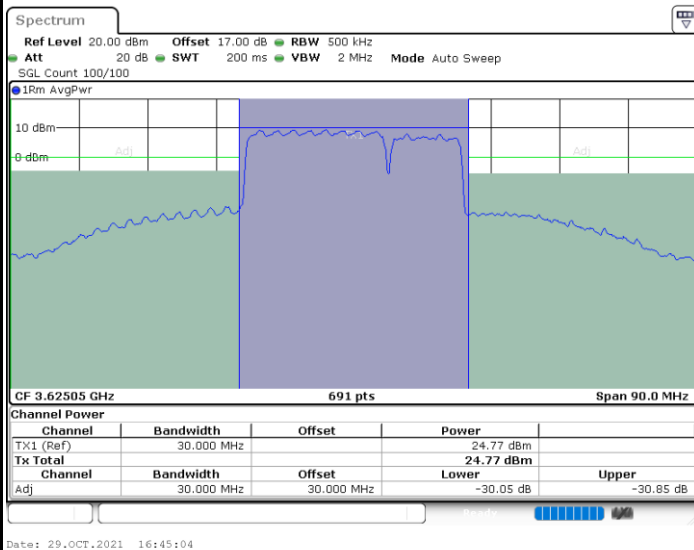
Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullRB

N/A



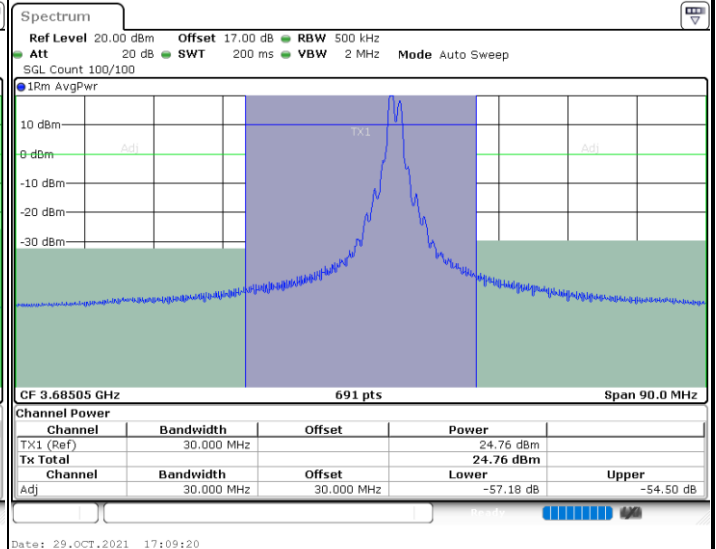
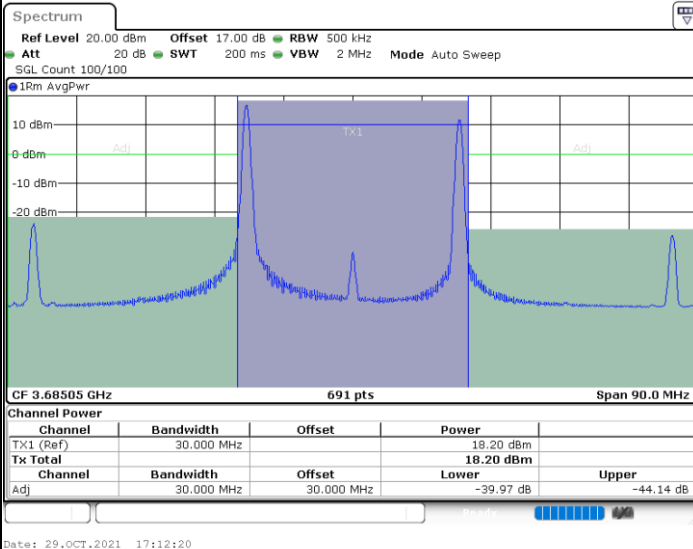


LTE Band 48C / 20MHz+10MHz

QPSK

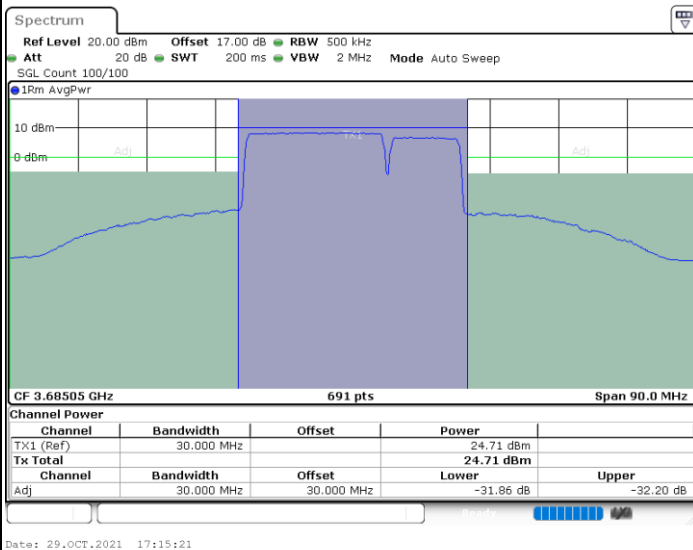
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullRB

N/A



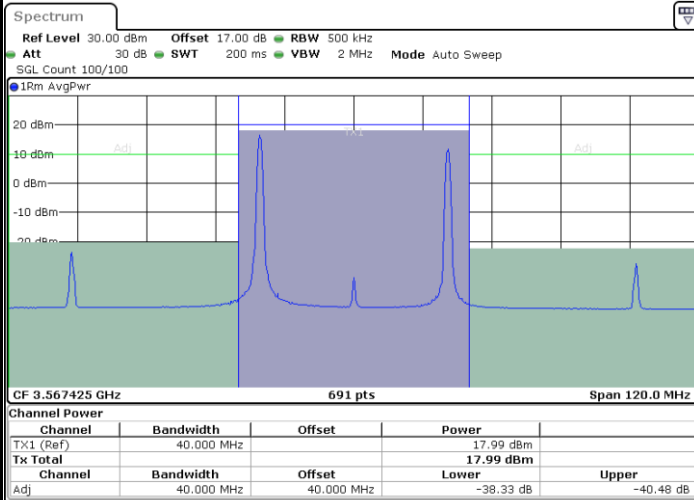


LTE Band 48C / 20MHz+15MHz

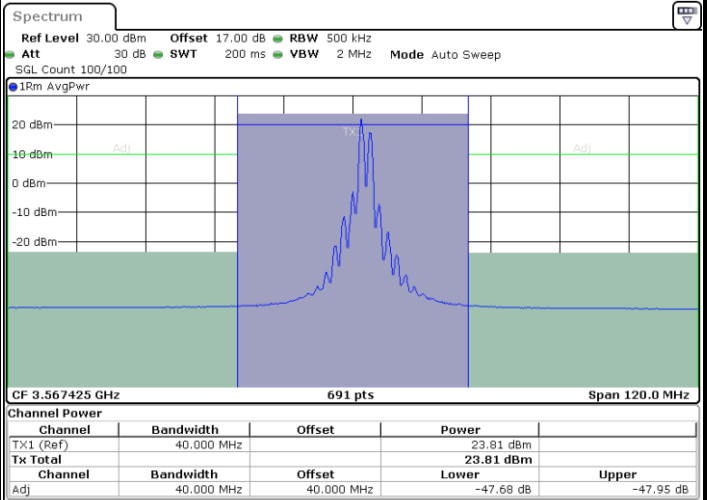
QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



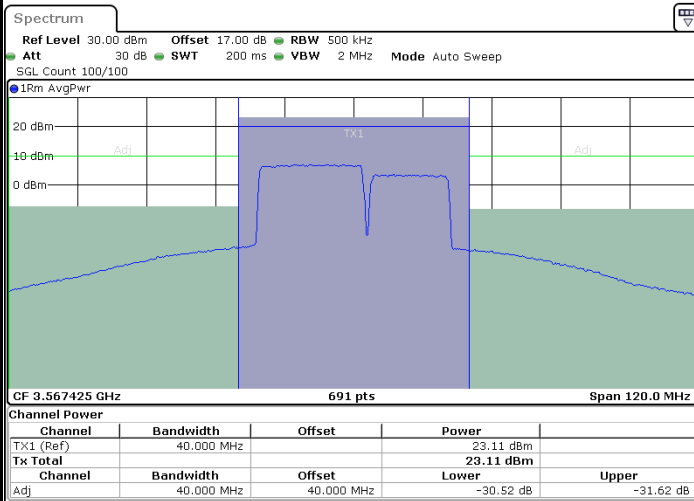
Date: 19.NOV.2021 17:54:18



Date: 19.NOV.2021 17:51:10

Lowest Channel / FullRB

N/A



Date: 19.NOV.2021 17:57:26

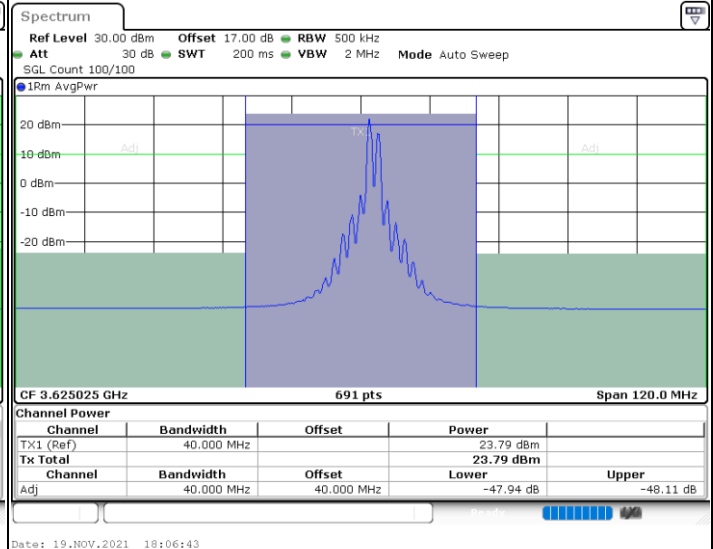
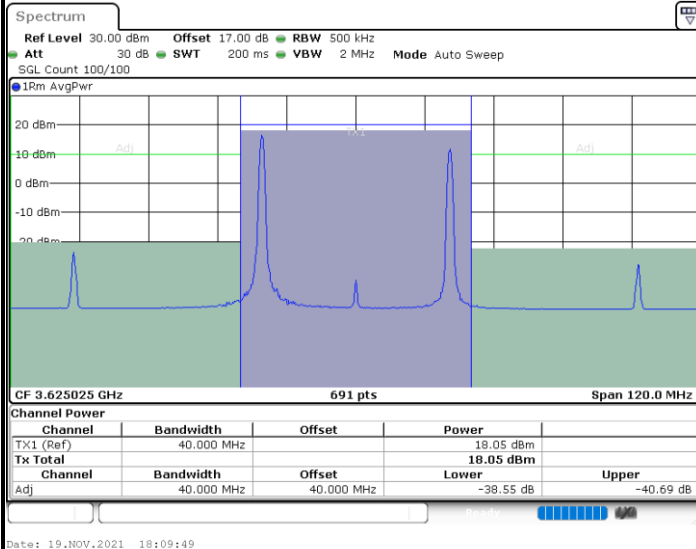


LTE Band 48C / 20MHz+15MHz

QPSK

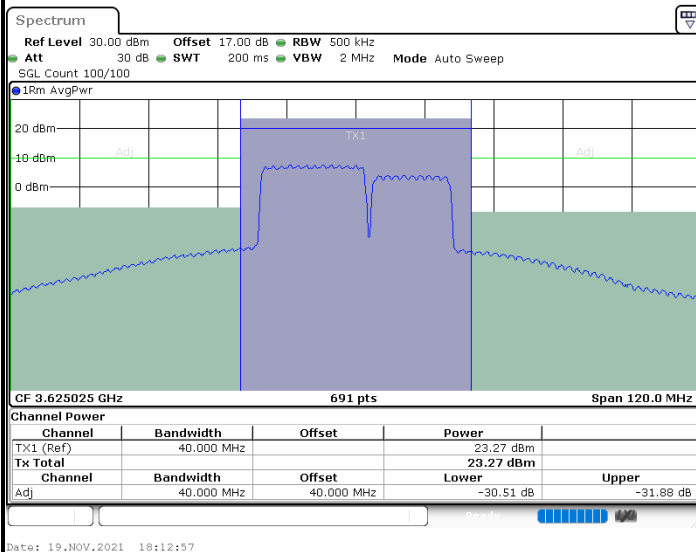
Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullRB

N/A



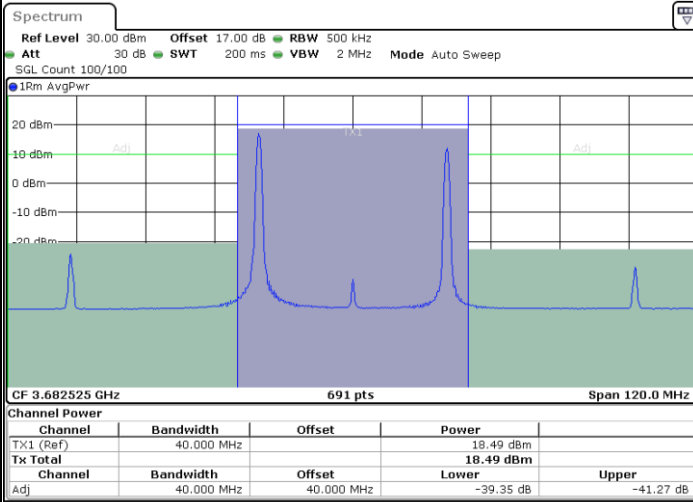


LTE Band 48C / 20MHz+15MHz

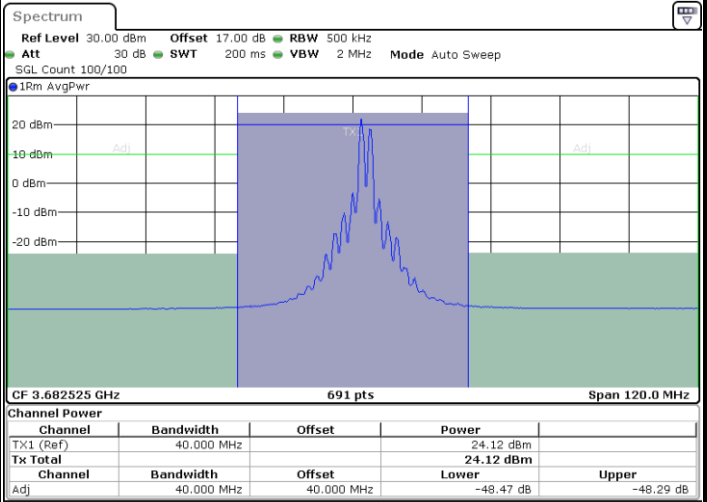
QPSK

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



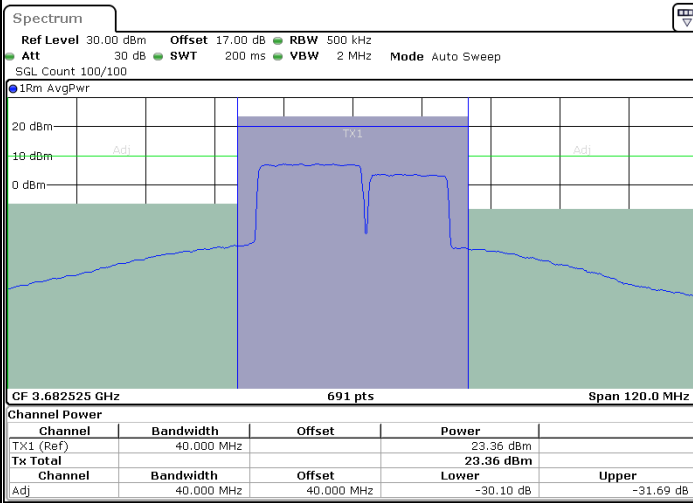
Date: 19.NOV.2021 18:19:47



Date: 19.NOV.2021 18:16:43

Highest Channel / FullRB

N/A



Date: 19.NOV.2021 18:30:29

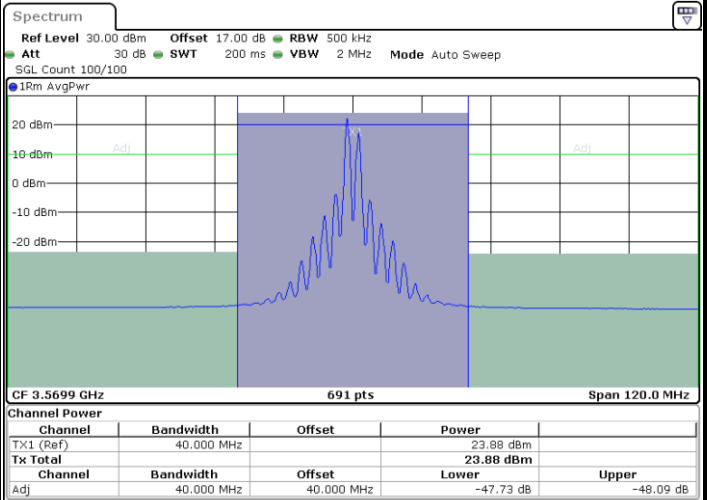
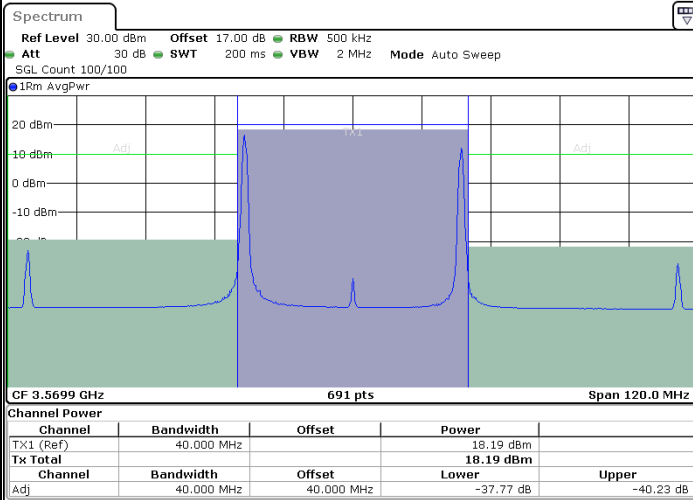


LTE Band 48C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

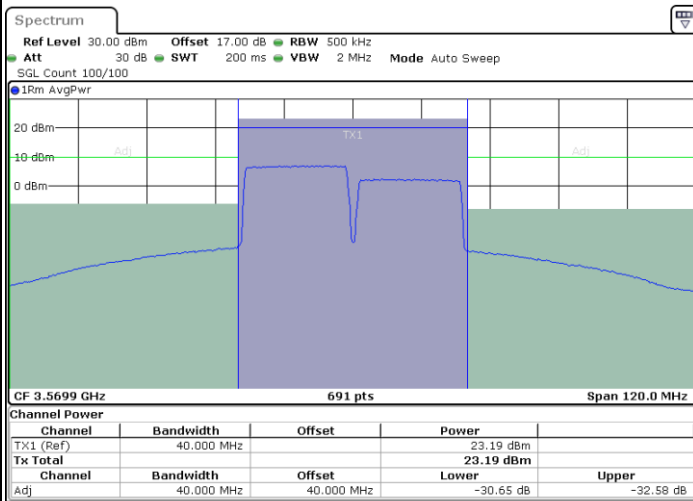


Date: 19.NOV.2021 18:37:45

Date: 19.NOV.2021 18:34:44

Lowest Channel / FullRB

N/A



Date: 19.NOV.2021 18:40:46

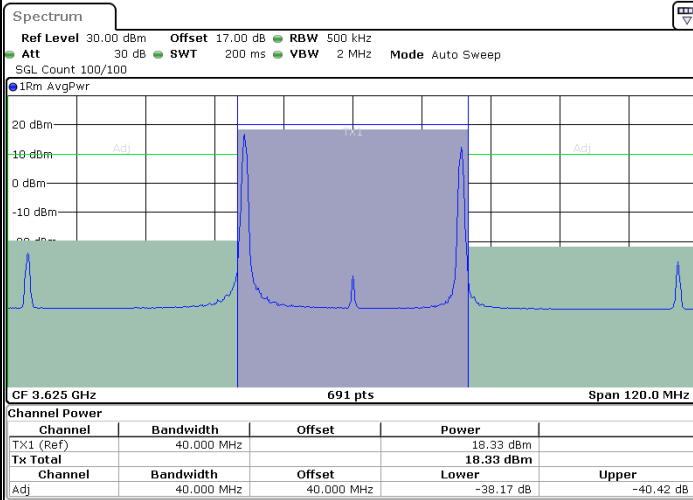


LTE Band 48C / 20MHz+20MHz

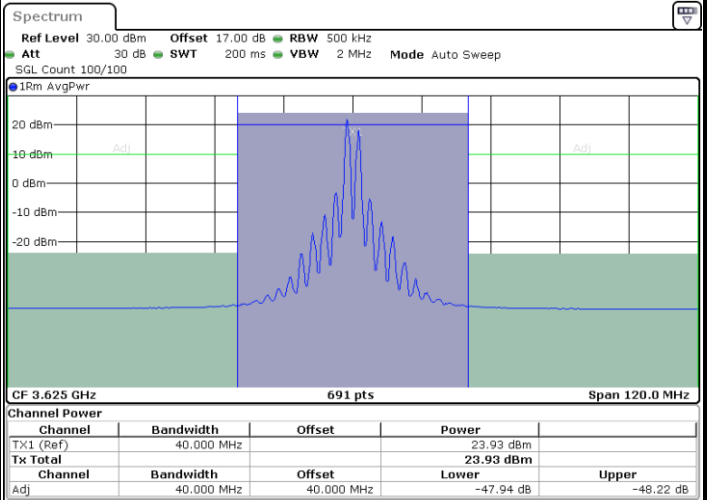
QPSK

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



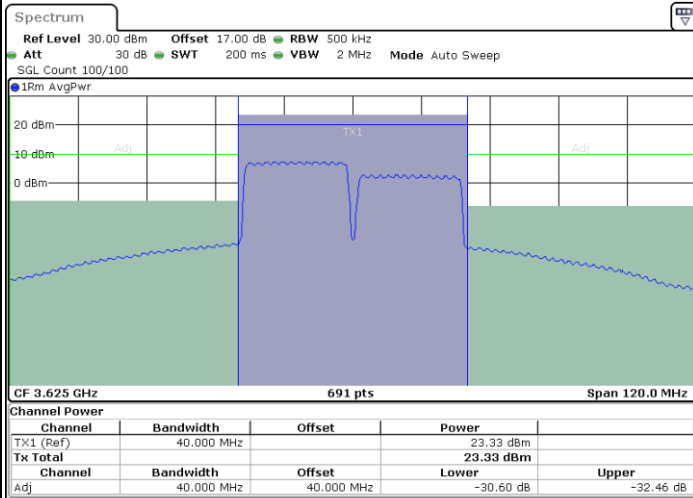
Date: 19.NOV.2021 18:50:03



Date: 19.NOV.2021 18:47:01

Middle Channel / FullRB

N/A



Date: 19.NOV.2021 18:53:04

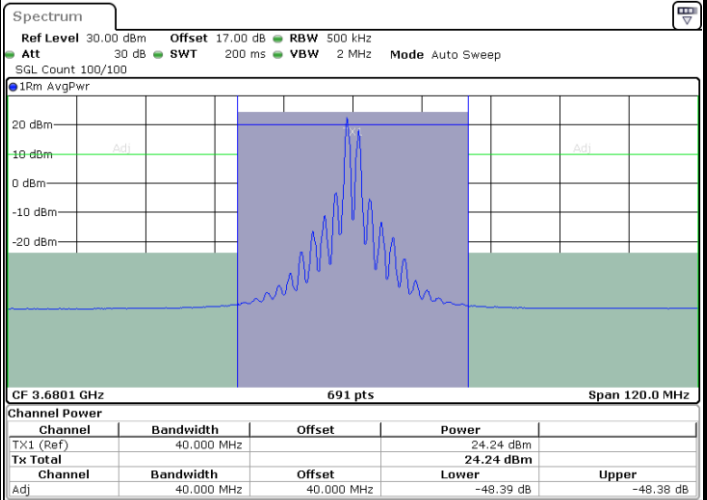
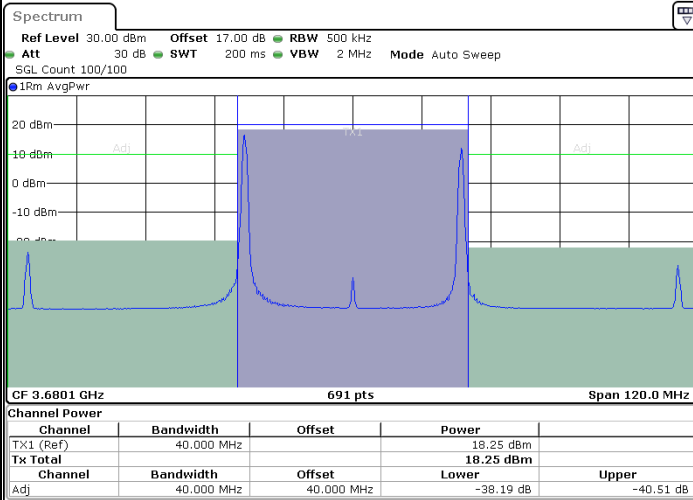


LTE Band 48C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

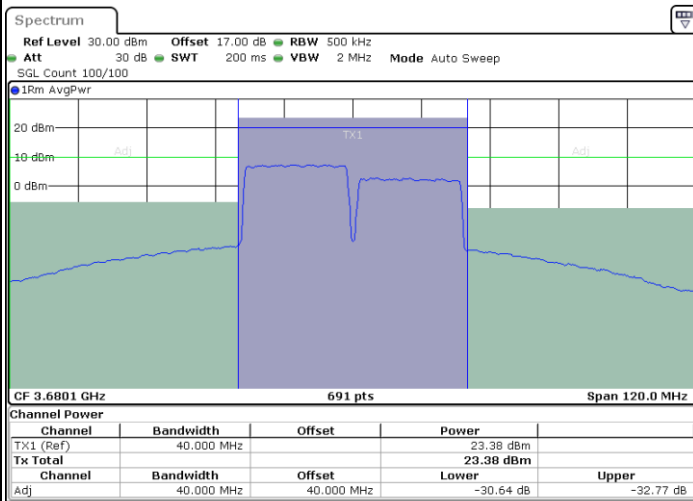


Date: 19.NOV.2021 19:00:03

Date: 19.NOV.2021 18:57:00

Highest Channel / FullIRB

N/A



Date: 19.NOV.2021 19:03:05

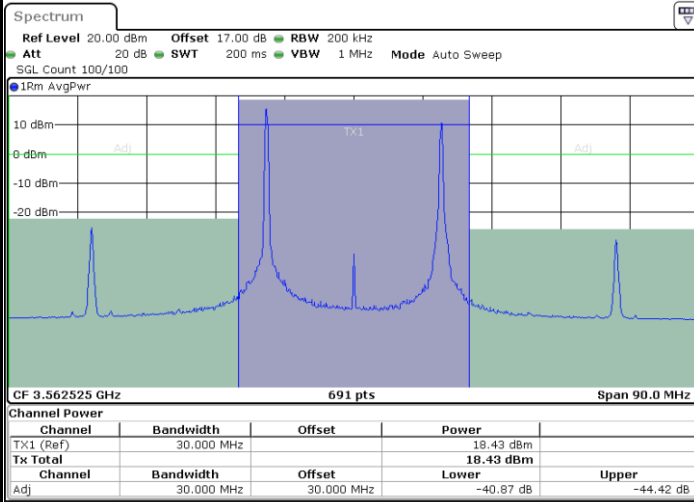


LTE Band 48C / 5MHz+20MHz

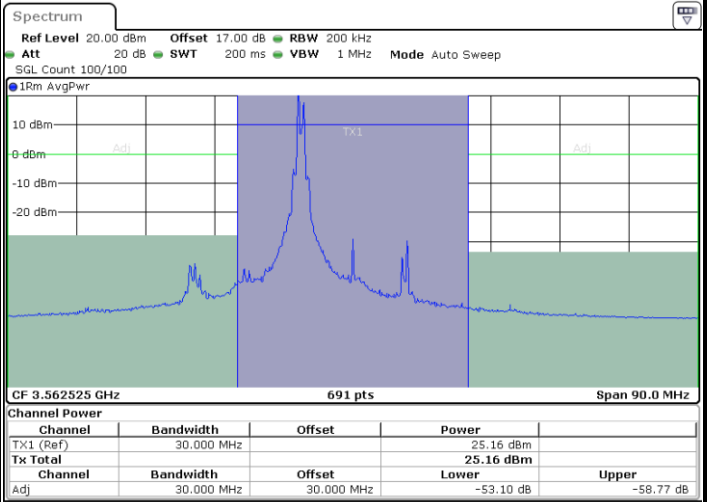
16QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0



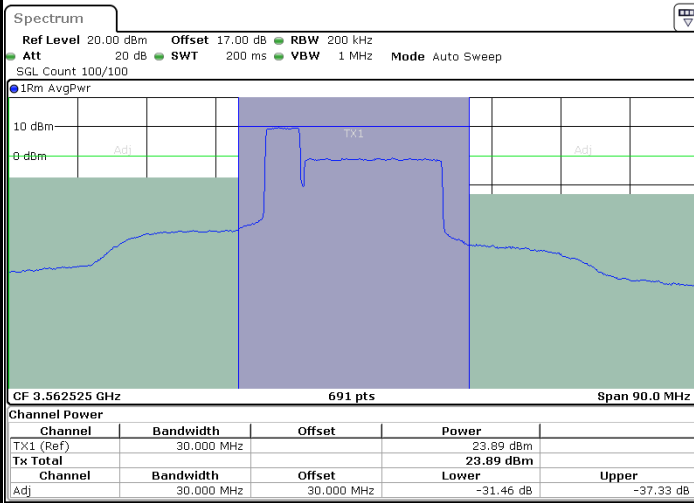
Date: 29.OCT.2021 20:13:46



Date: 29.OCT.2021 20:10:45

Lowest Channel / FullRB

N/A



Date: 29.OCT.2021 20:16:47

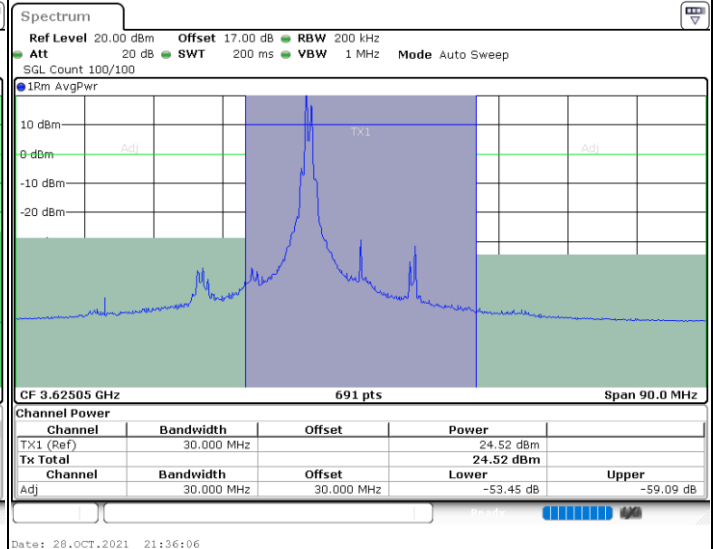
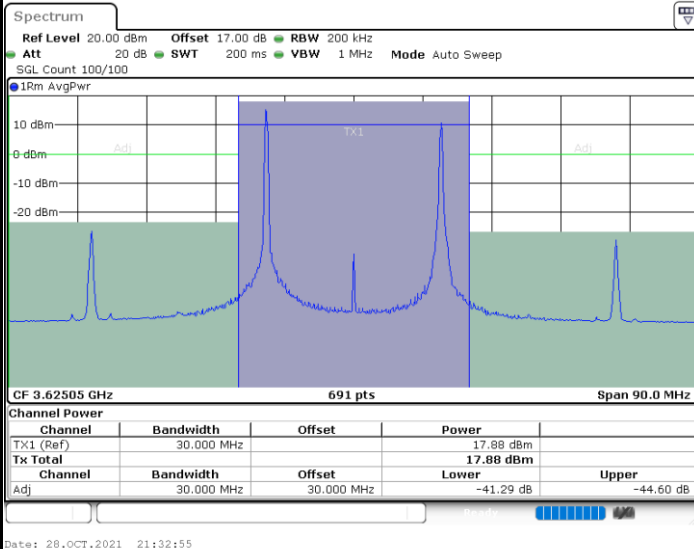


LTE Band 48C / 5MHz+20MHz

16QAM

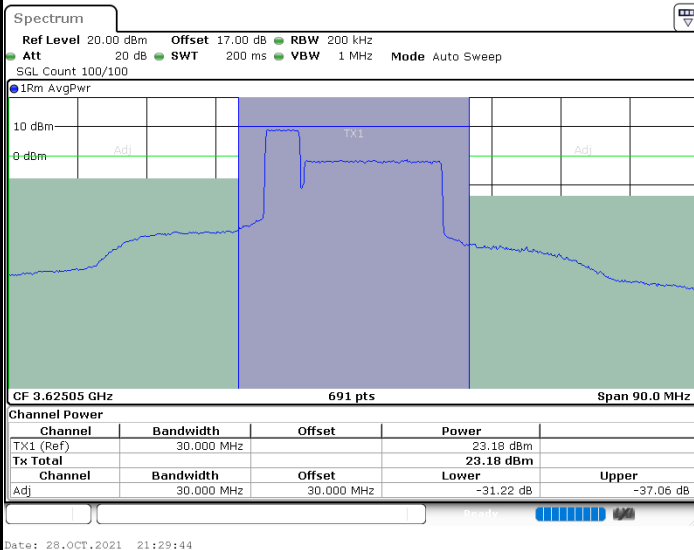
Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB24 and 1RB0



Middle Channel / FullRB

N/A



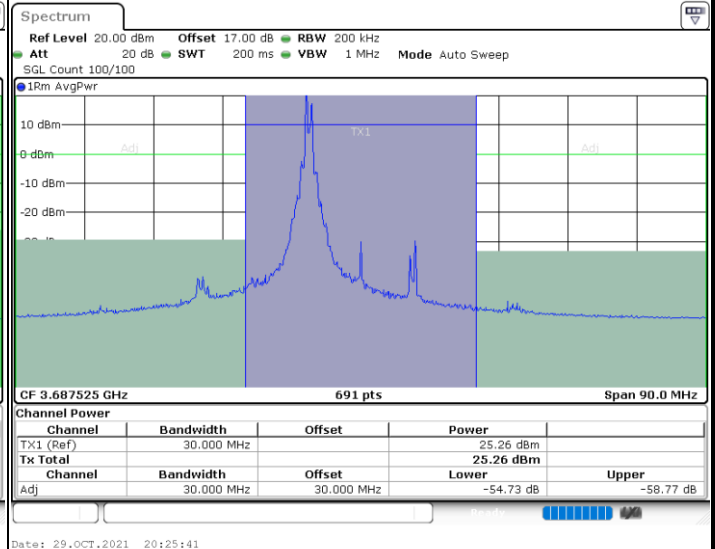
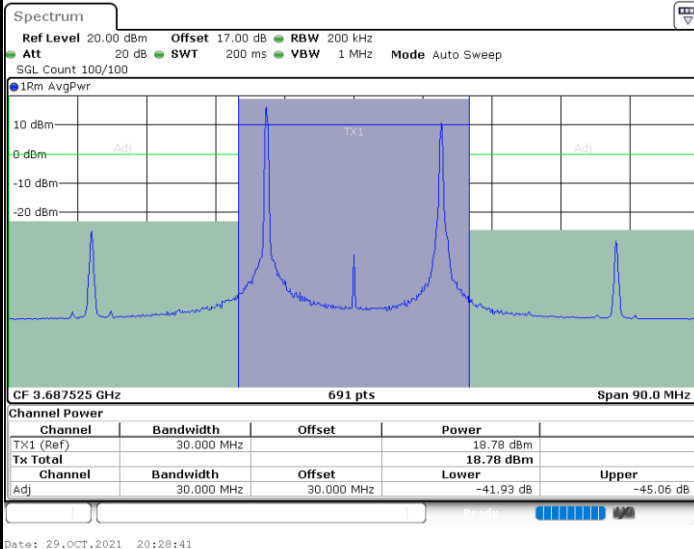


LTE Band 48C / 5MHz+20MHz

16QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



Highest Channel / FullRB

N/A

