

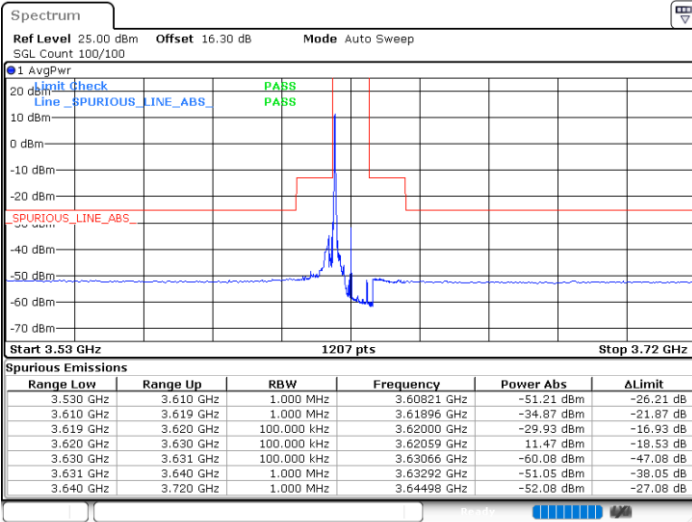


LTE Band 48 / 10MHz

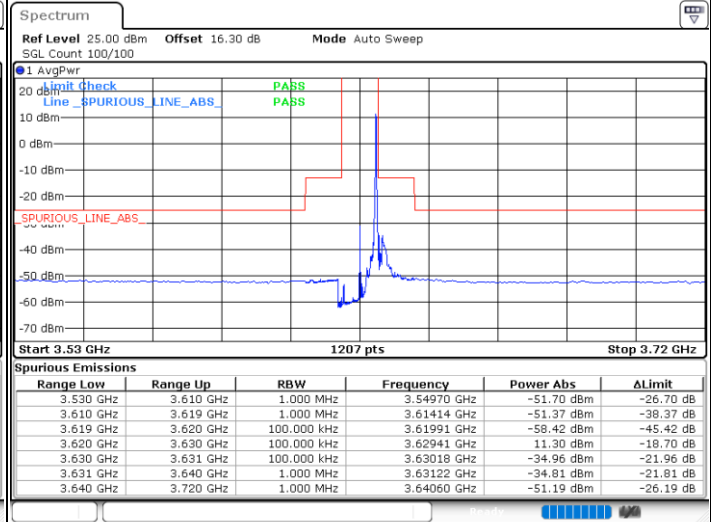
256QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



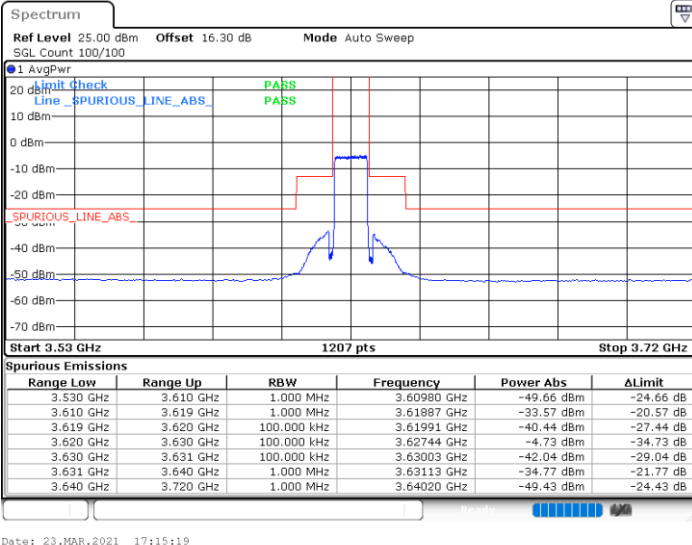
Date: 23.MAR.2021 17:16:29



Date: 23.MAR.2021 17:17:35

Middle Channel / FullIRB

N/A



Date: 23.MAR.2021 17:15:19

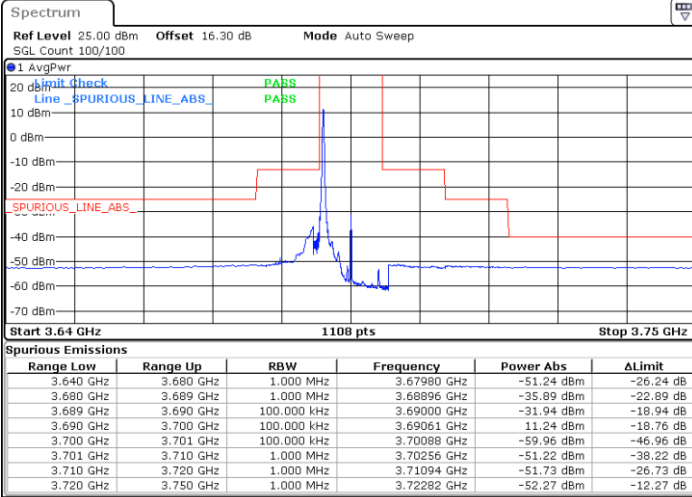


LTE Band 48 / 10MHz

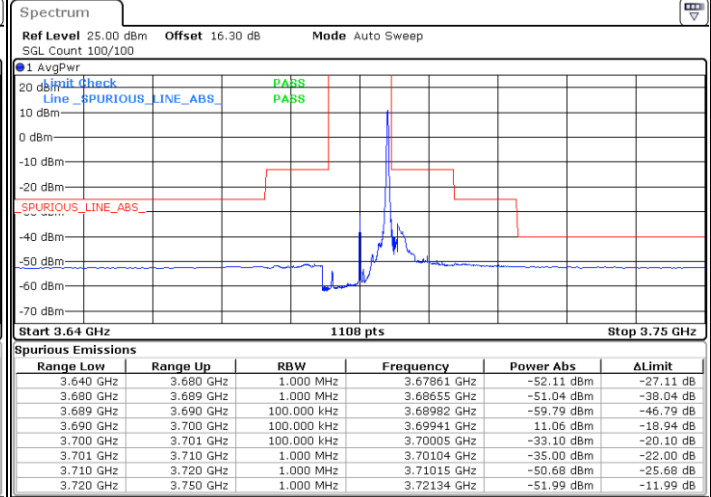
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



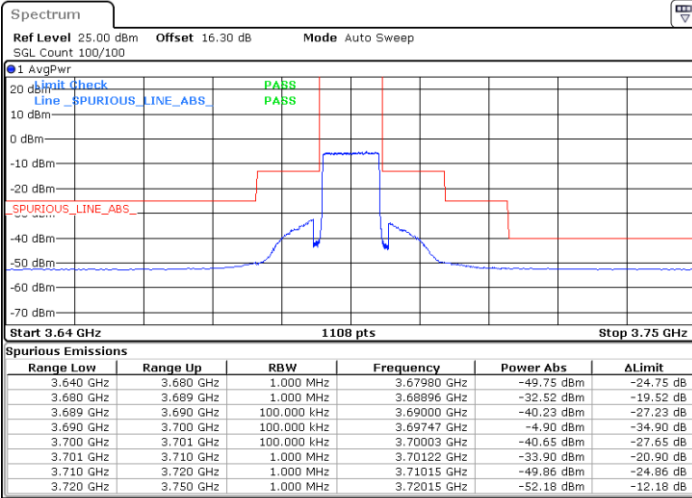
Date: 23.MAR.2021 17:20:39



Date: 23.MAR.2021 17:21:48

Highest Channel / FullIRB

N/A



Date: 23.MAR.2021 17:19:26

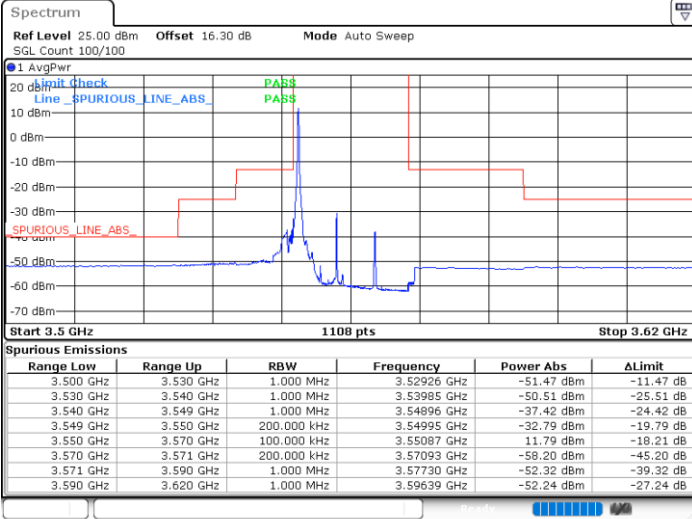


LTE Band 48 / 15MHz

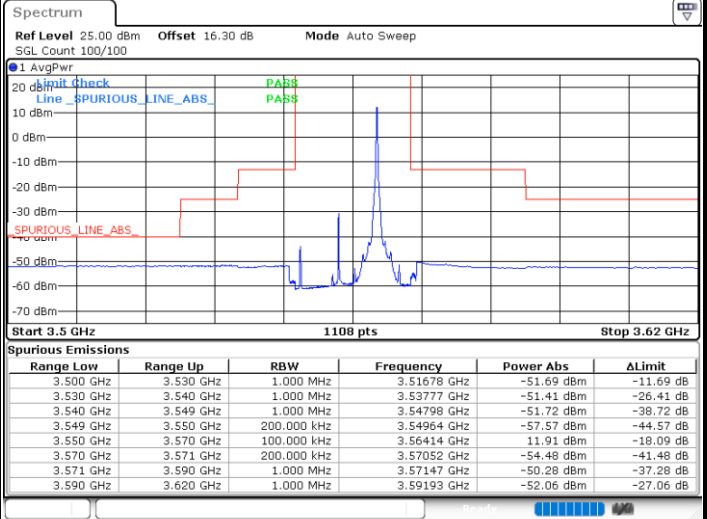
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



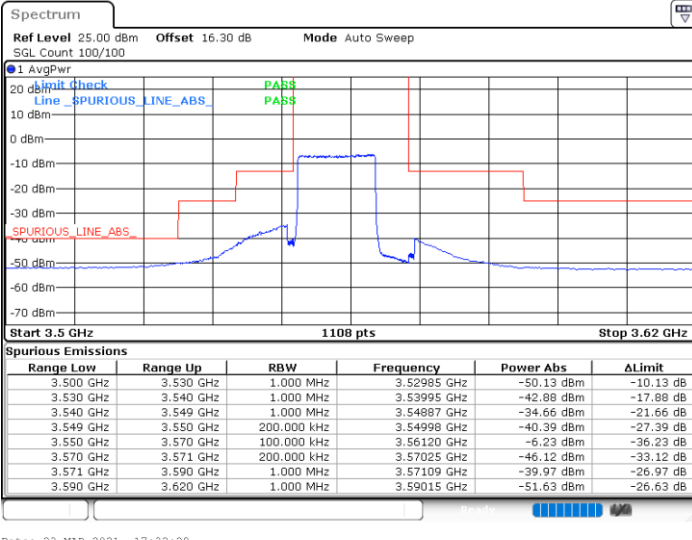
Date: 23.MAR.2021 17:33:31



Date: 23.MAR.2021 17:34:34

Lowest Channel / FullIRB

N/A



Date: 23.MAR.2021 17:32:29

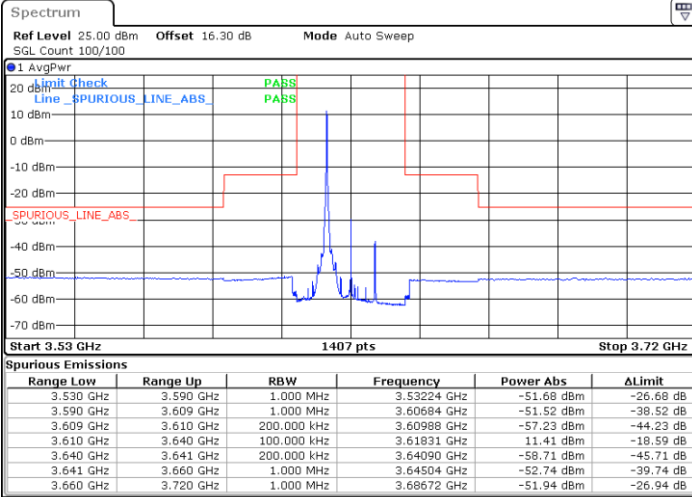


LTE Band 48 / 15MHz

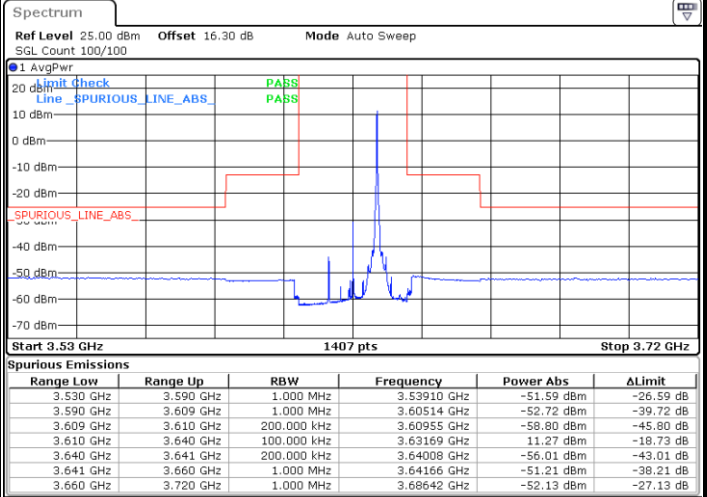
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



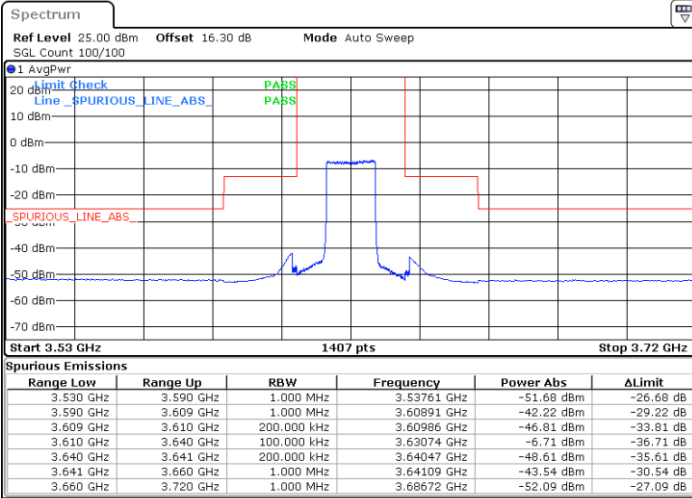
Date: 23.MAR.2021 17:30:10



Date: 23.MAR.2021 17:31:13

Middle Channel / FullIRB

N/A



Date: 23.MAR.2021 17:28:58

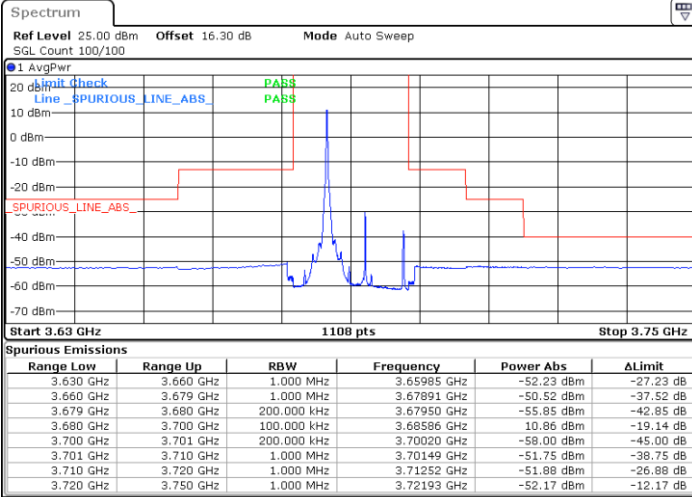


LTE Band 48 / 15MHz

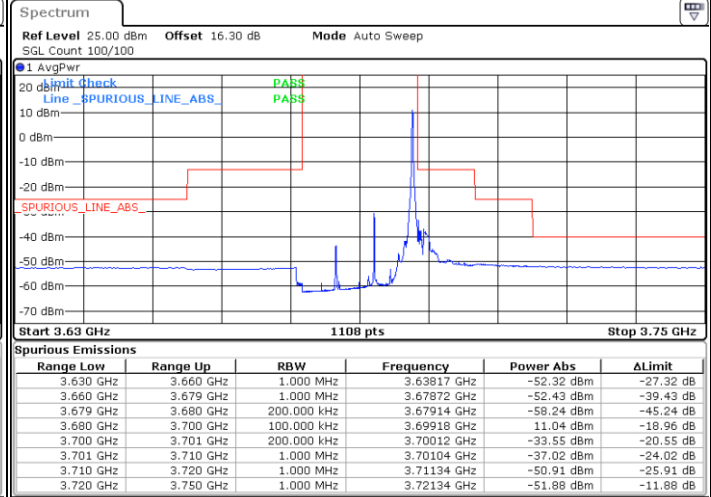
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



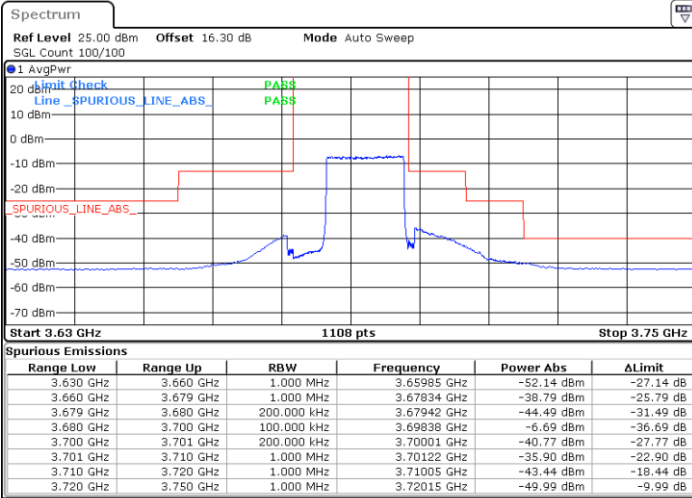
Date: 23.MAR.2021 17:37:08



Date: 23.MAR.2021 17:38:13

Highest Channel / FullIRB

N/A



Date: 23.MAR.2021 17:36:00

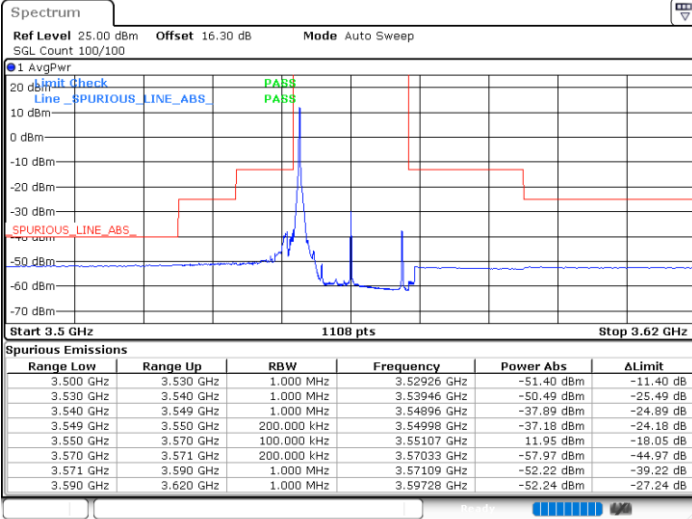


LTE Band 48 / 20MHz

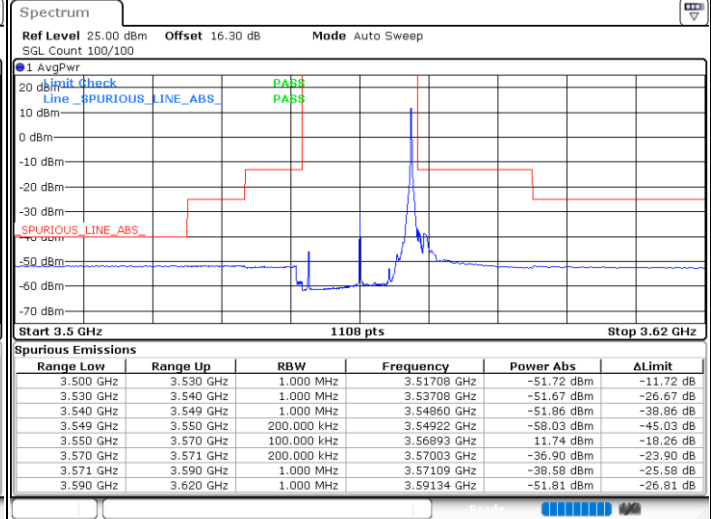
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



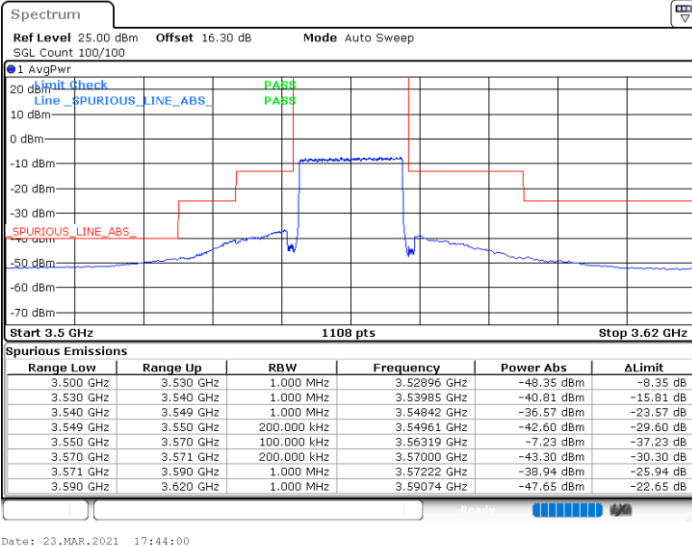
Date: 23.MAR.2021 17:45:37



Date: 23.MAR.2021 17:46:40

Lowest Channel / FullIRB

N/A



Date: 23.MAR.2021 17:44:00

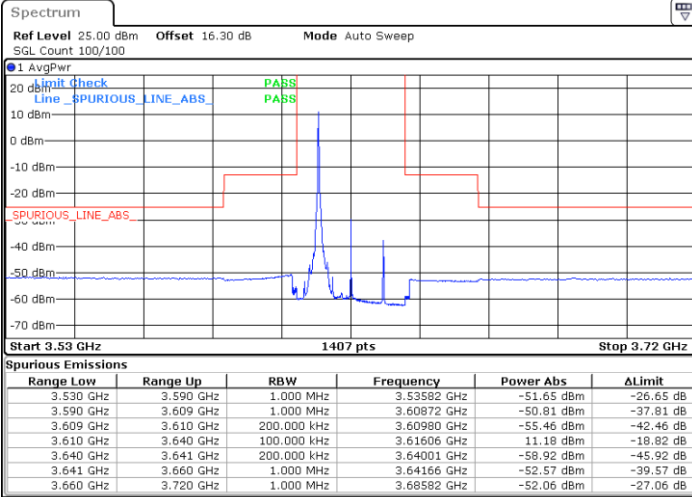


LTE Band 48 / 20MHz

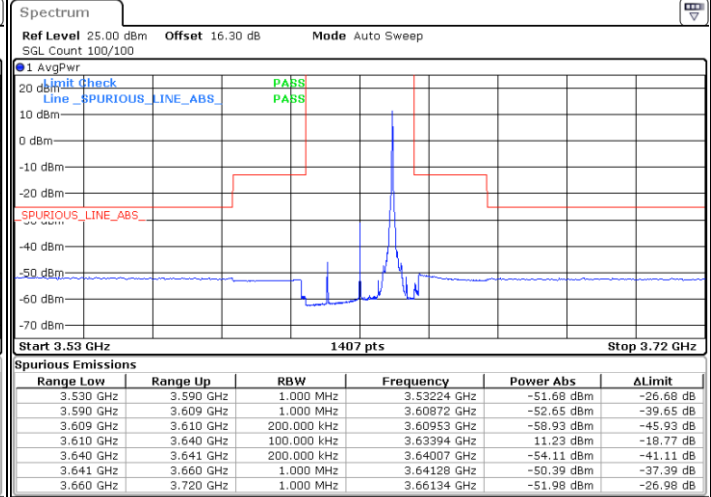
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



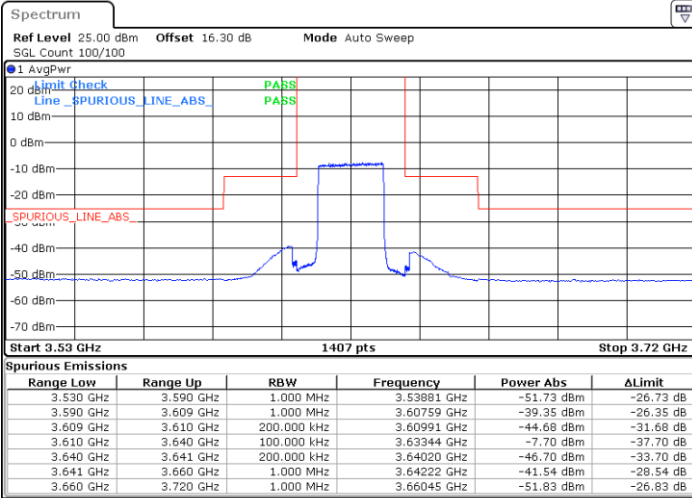
Date: 23.MAR.2021 17:41:36



Date: 23.MAR.2021 17:42:39

Middle Channel / FullIRB

N/A



Date: 23.MAR.2021 17:40:32

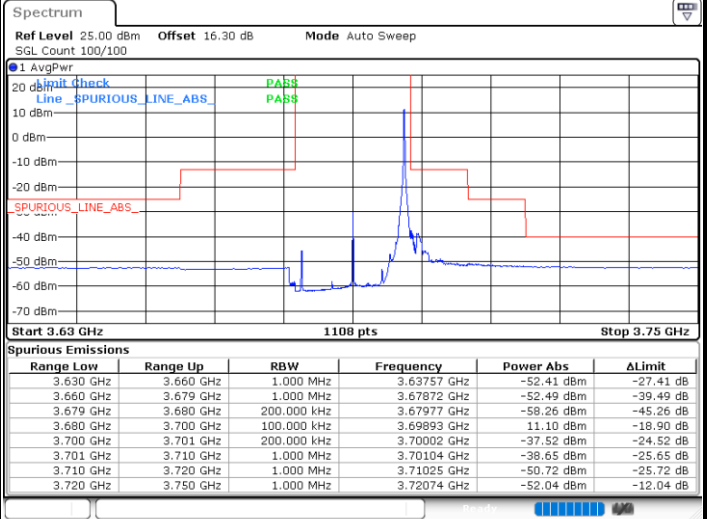
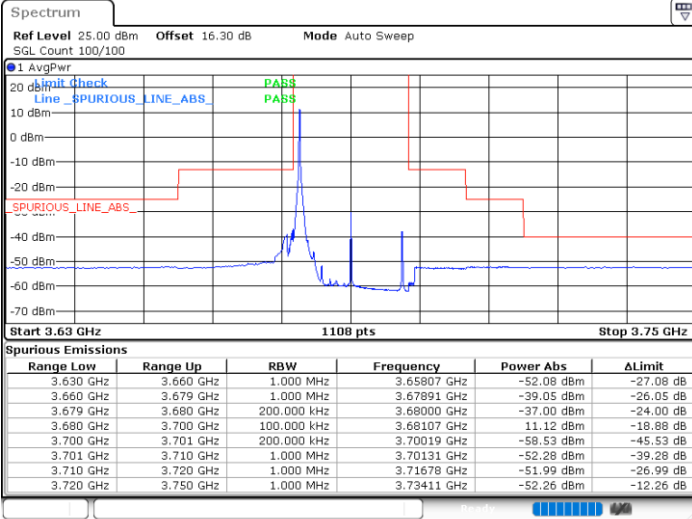


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

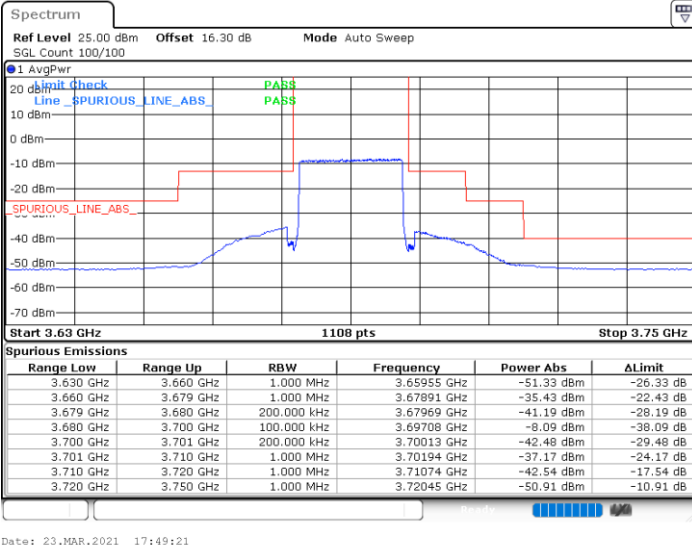


Date: 23.MAR.2021 17:50:22

Date: 23.MAR.2021 17:51:46

Highest Channel / FullIRB

N/A



Date: 23.MAR.2021 17:49:21



Conducted Spurious Emission

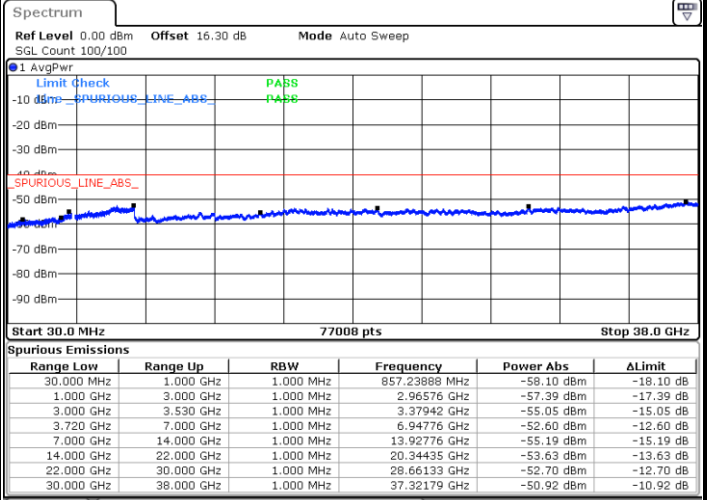
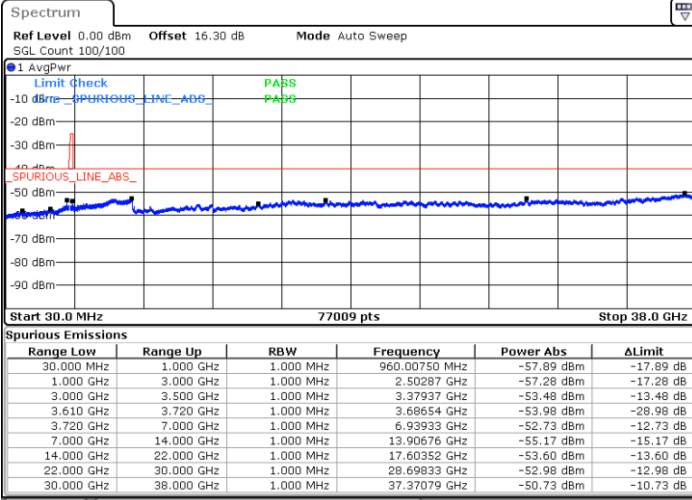




LTE Band 48 / 10MHz

Lowest Channel / QPSK

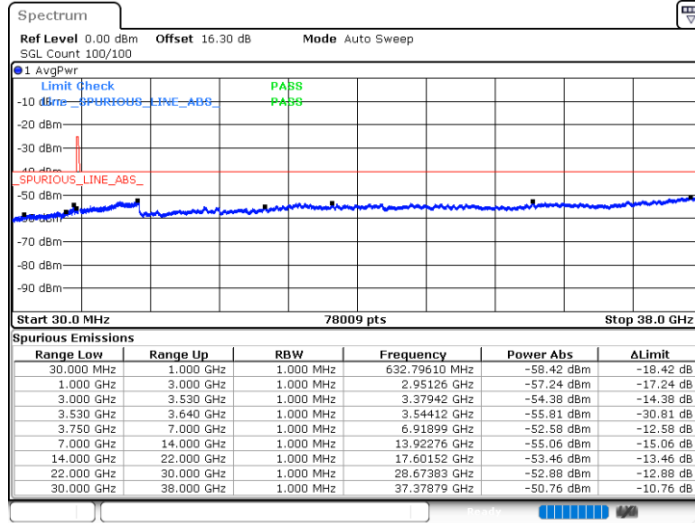
Middle Channel / QPSK



Date: 23.MAR.2021 13:46:55

Date: 23.MAR.2021 13:48:01

Highest Channel / QPSK



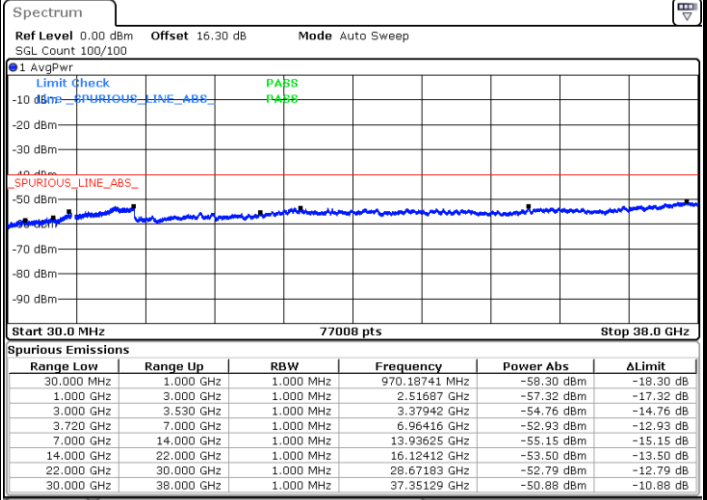
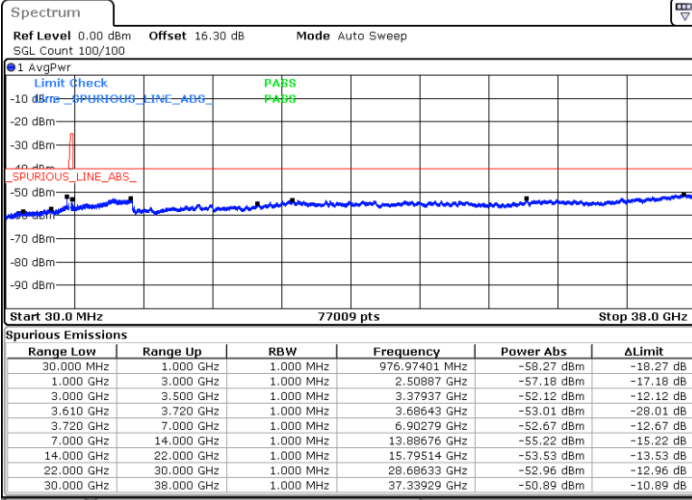
Date: 23.MAR.2021 13:49:07



LTE Band 48 / 15MHz

Lowest Channel / QPSK

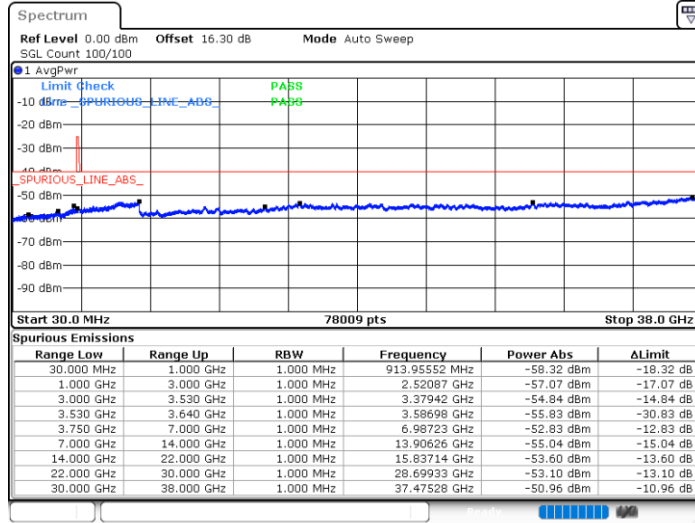
Middle Channel / QPSK



Date: 23.MAR.2021 13:50:15

Date: 23.MAR.2021 13:51:21

Highest Channel / QPSK



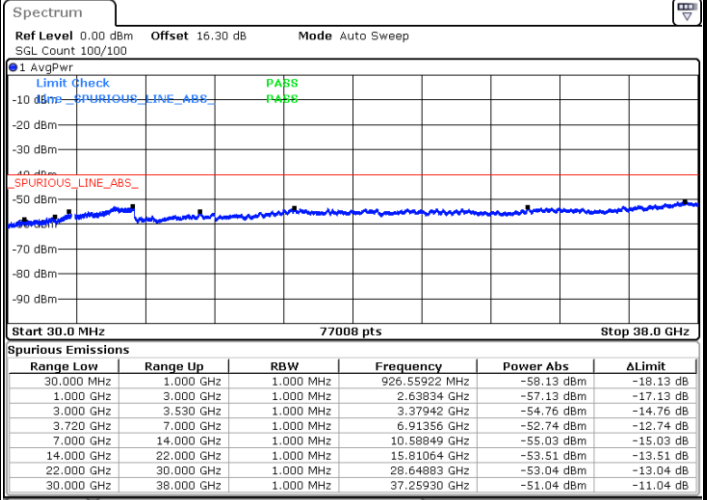
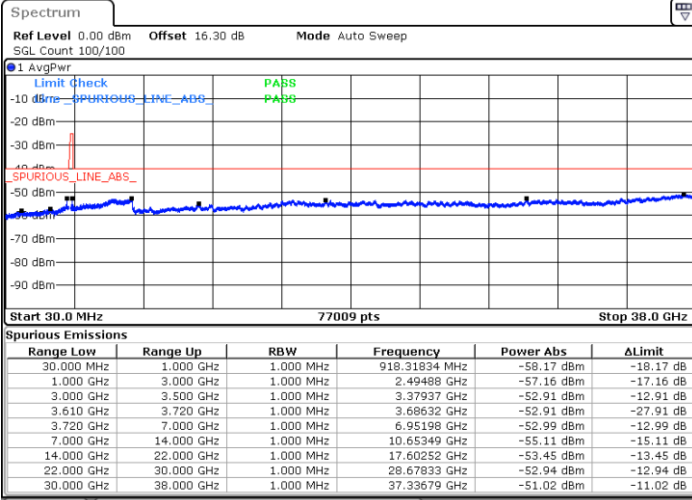
Date: 23.MAR.2021 13:52:28



LTE Band 48 / 20MHz

Lowest Channel / QPSK

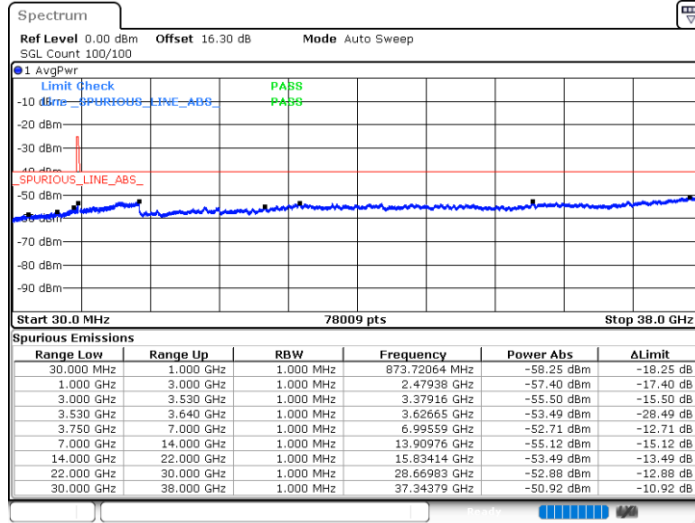
Middle Channel / QPSK



Date: 23.MAR.2021 13:53:36

Date: 23.MAR.2021 13:54:41

Highest Channel / QPSK



Date: 23.MAR.2021 13:55:48



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	0.0057	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0045	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0043	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0056	

Note:

- 1. Normal Voltage =12 V. ; Battery End Point (ACLRP) =11.6 V. ; Maximum Voltage =12.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48C

26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.68	29.79	34.90	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.15	34.83	39.72	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.38	29.85	34.76	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.90	39.88	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.63	29.91	34.90	24.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.04	39.88	-

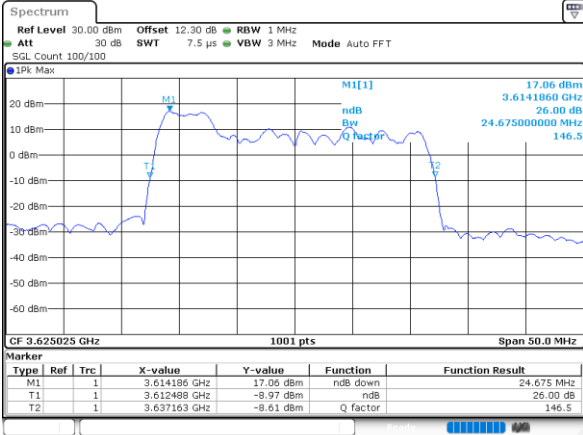
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.73	29.91	34.90	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.76	39.88	-



LTE Band 48C

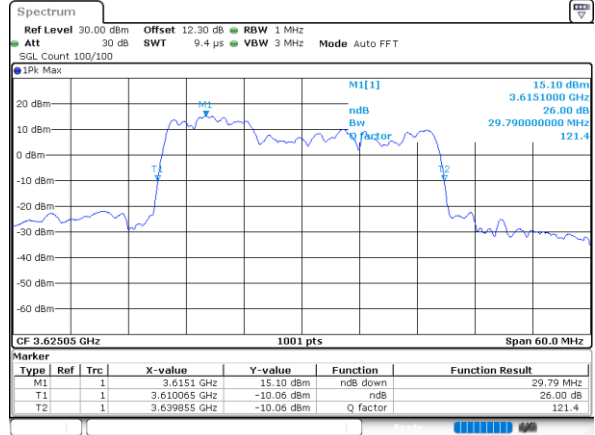
QPSK

Middle Channel / 5MHz+20MHz



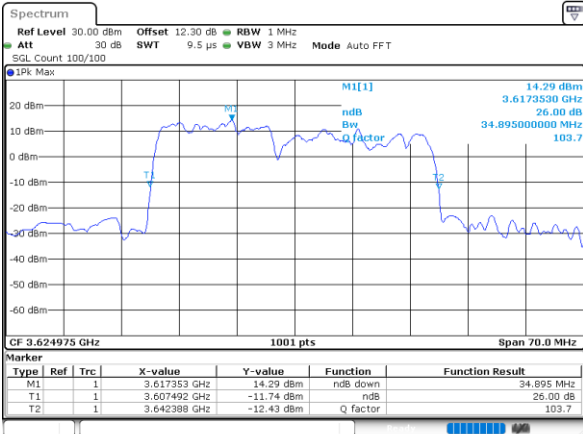
Date: 24.MAR.2021 14:25:51

Middle Channel / 10MHz+20MHz



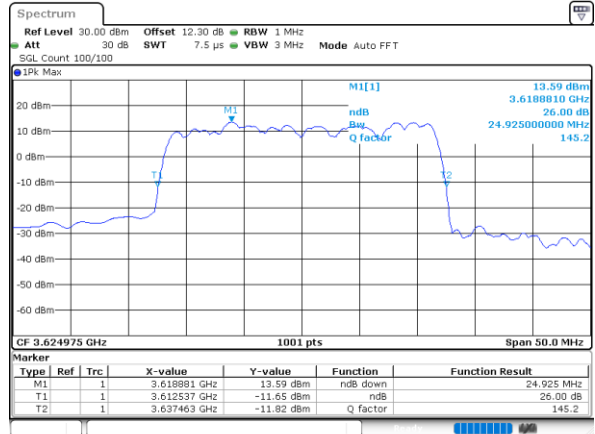
Date: 24.MAR.2021 16:48:32

Middle Channel / 15MHz+20MHz



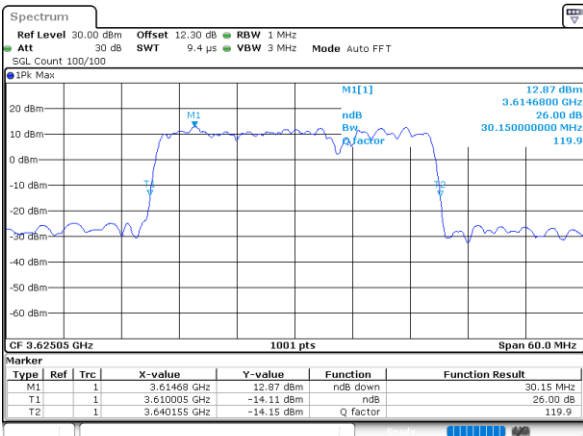
Date: 25.MAR.2021 11:14:28

Middle Channel / 20MHz+5MHz



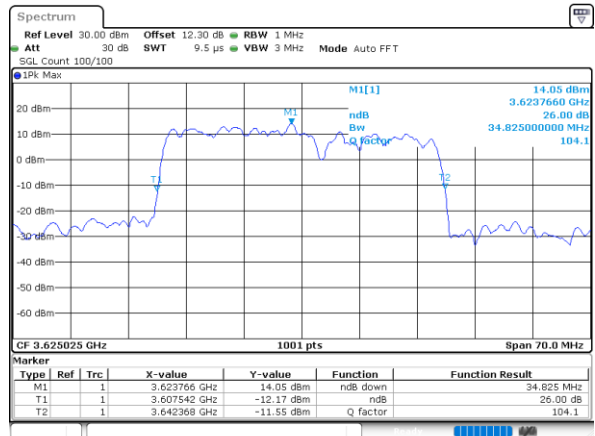
Date: 24.MAR.2021 15:10:43

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:15:47

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:52:45

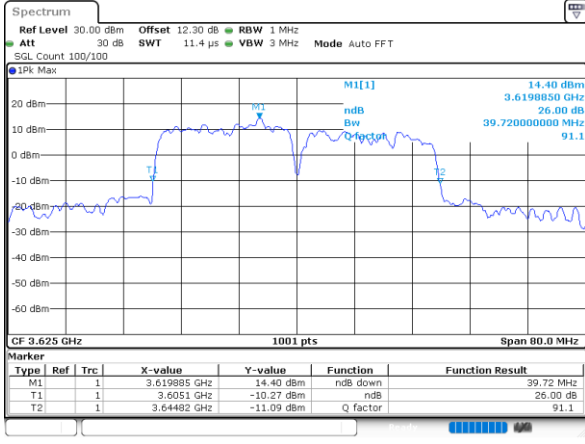


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

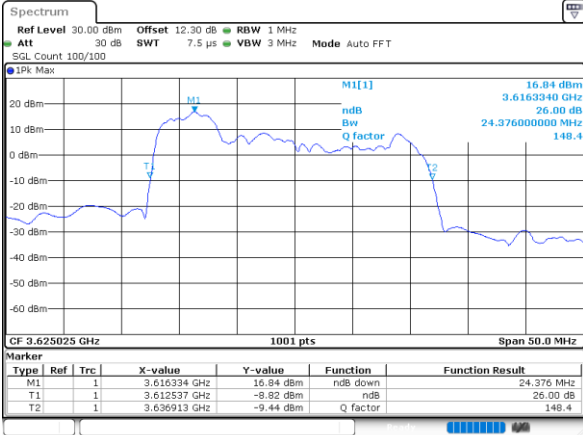




LTE Band 48C

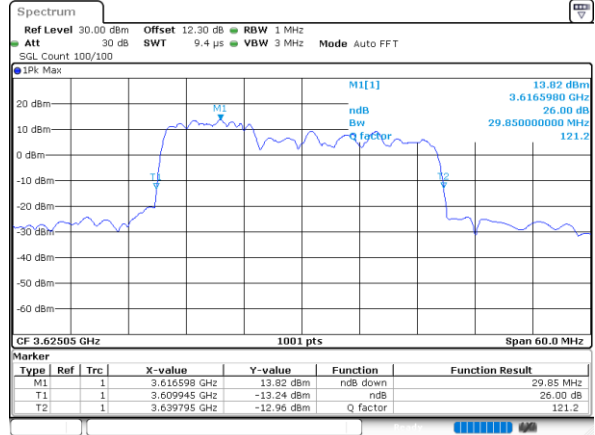
16QAM

Middle Channel / 5MHz+20MHz



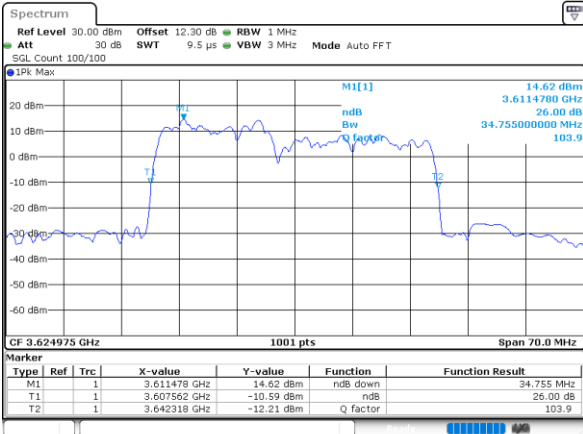
Date: 24.MAR.2021 14:25:07

Middle Channel / 10MHz+20MHz



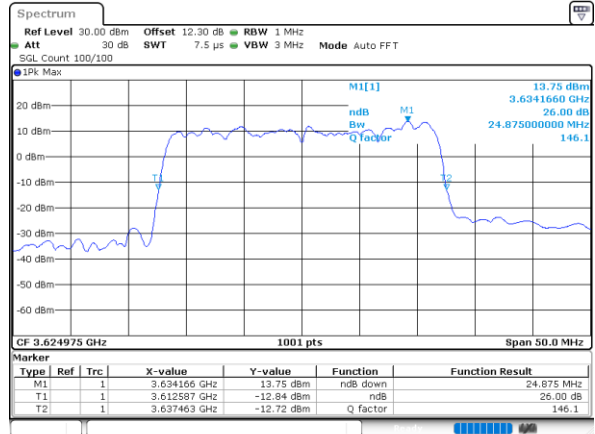
Date: 24.MAR.2021 16:48:09

Middle Channel / 15MHz+20MHz



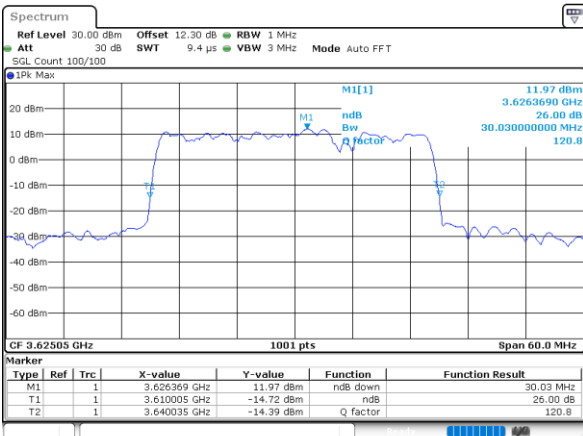
Date: 25.MAR.2021 11:14:05

Middle Channel / 20MHz+5MHz



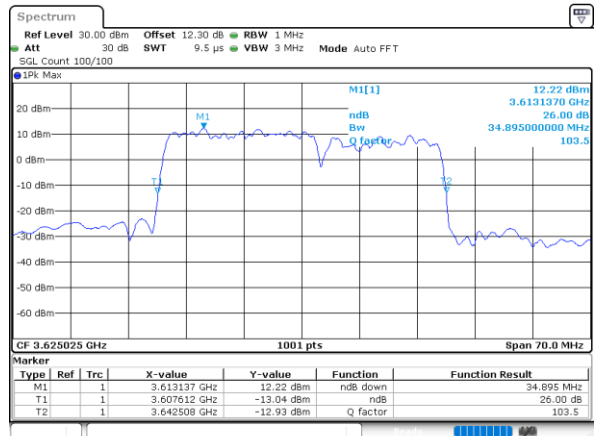
Date: 24.MAR.2021 15:10:21

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:15:25

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:52:23

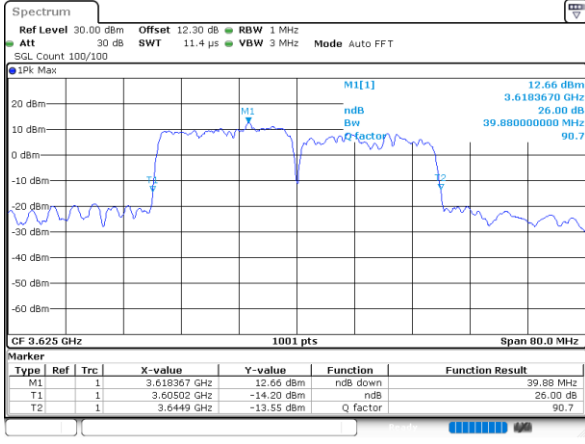


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

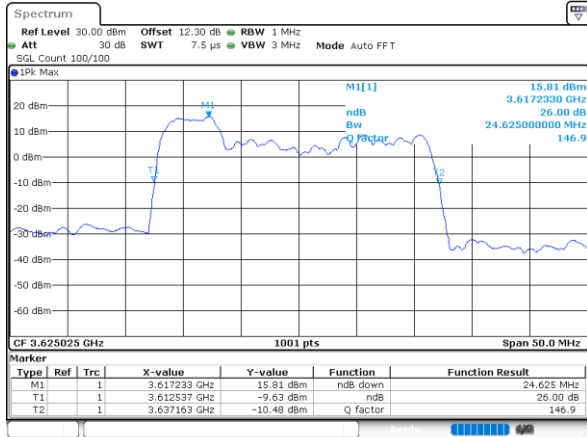




LTE Band 48C

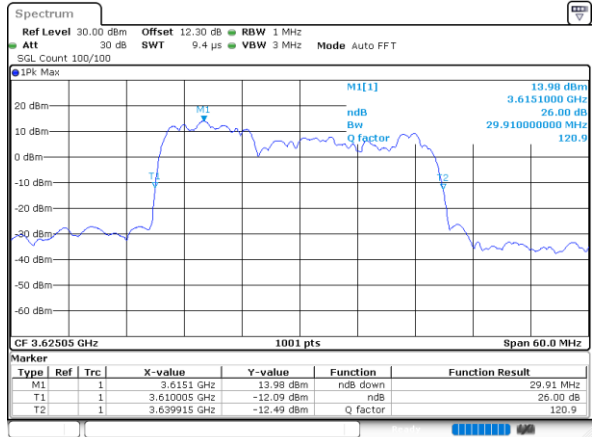
64QAM

Middle Channel / 5MHz+20MHz



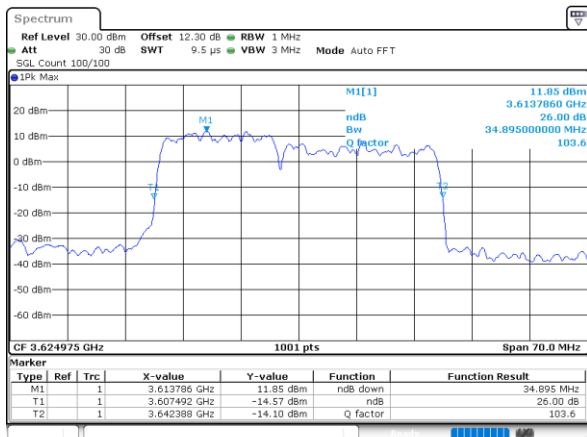
Date: 24.MAR.2021 14:24:45

Middle Channel / 10MHz+20MHz



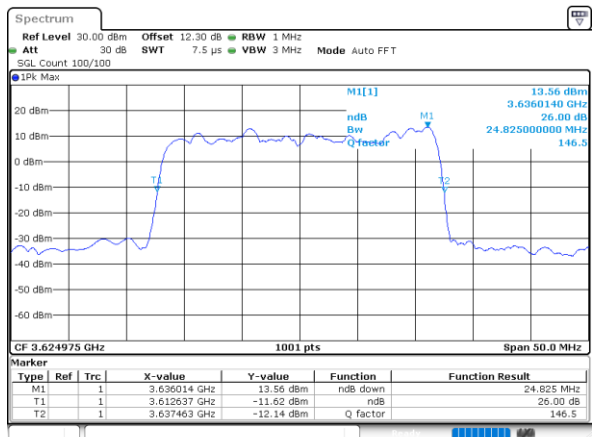
Date: 24.MAR.2021 16:47:47

Middle Channel / 15MHz+20MHz



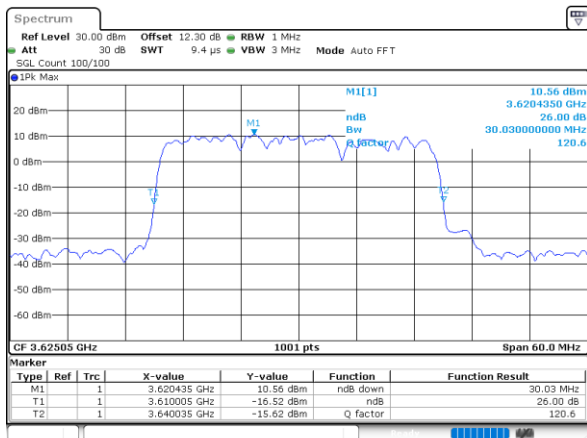
Date: 25.MAR.2021 11:13:43

Middle Channel / 20MHz+5MHz



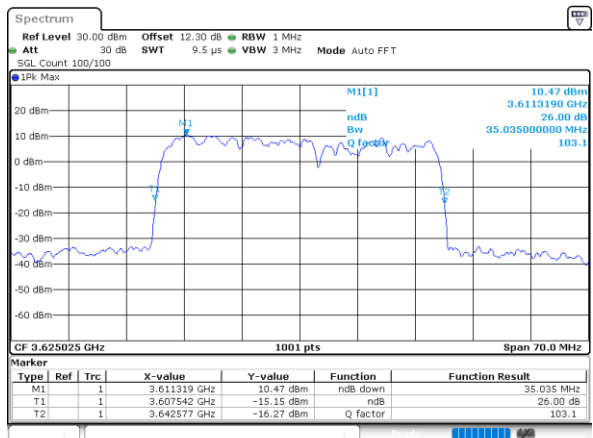
Date: 24.MAR.2021 15:09:58

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:15:02

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:52:00

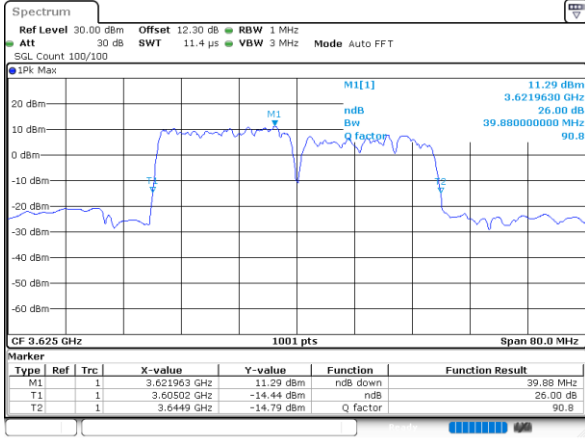


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

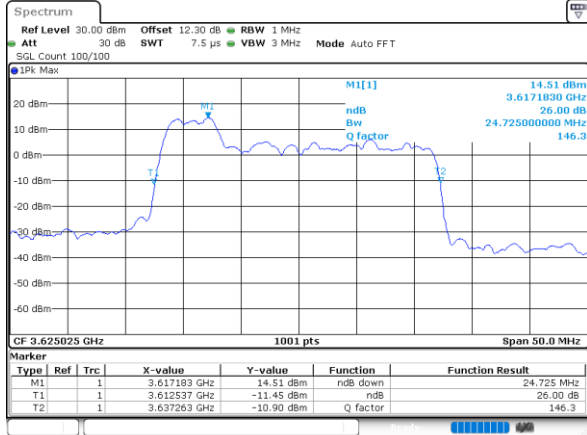




LTE Band 48C

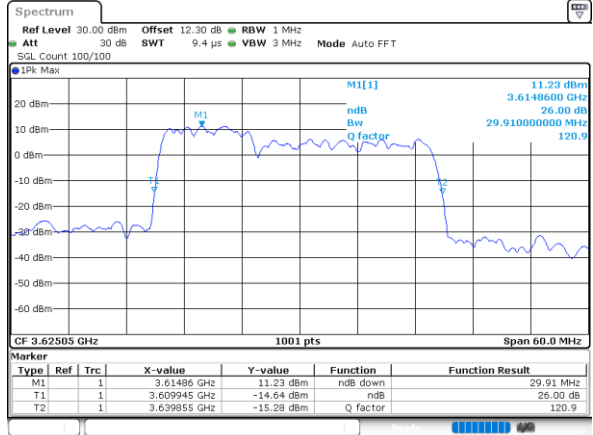
256QAM

Middle Channel / 5MHz+20MHz



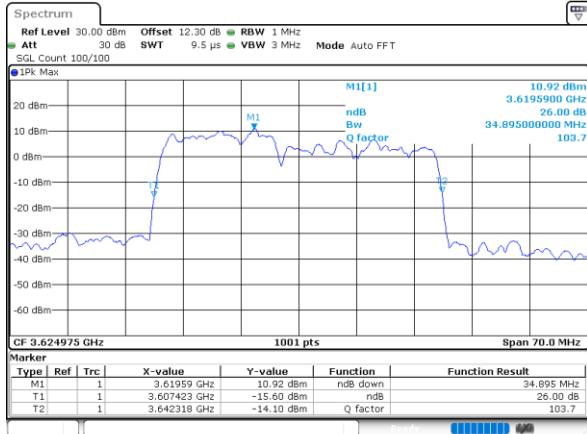
Date: 24.MAR.2021 14:27:58

Middle Channel / 10MHz+20MHz



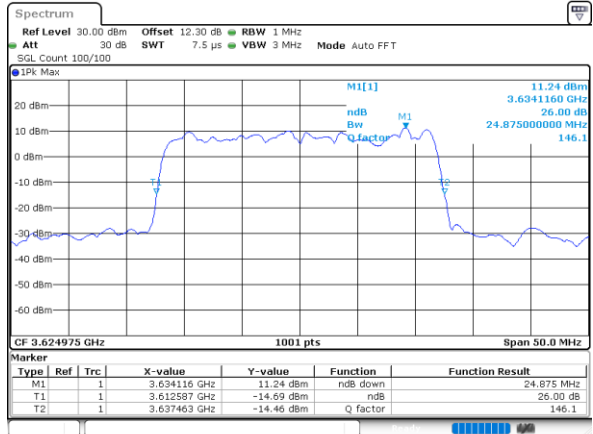
Date: 24.MAR.2021 16:48:54

Middle Channel / 15MHz+20MHz



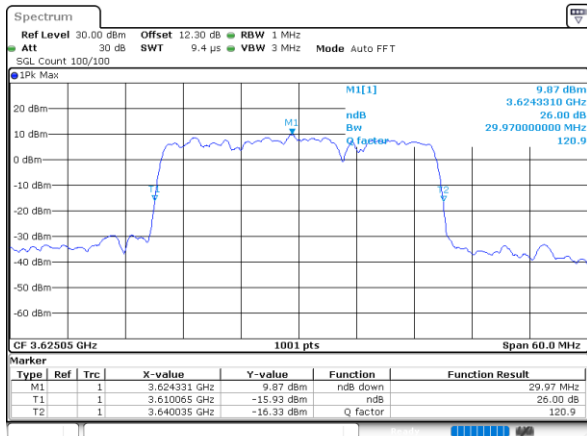
Date: 25.MAR.2021 11:14:50

Middle Channel / 20MHz+5MHz



Date: 24.MAR.2021 15:11:05

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:16:31

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:53:29

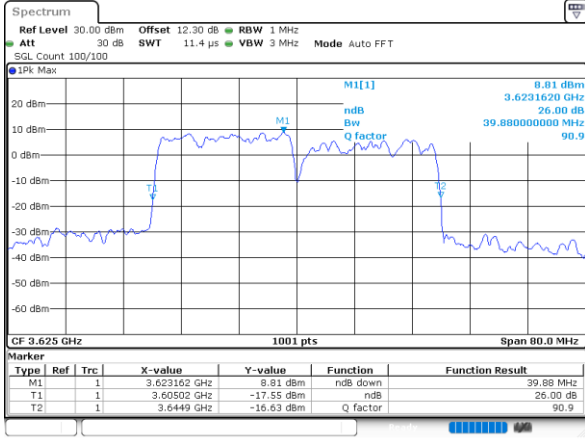


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A





Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.28	28.23	32.87	23.03
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.73	37.48	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.93	27.81	33.08	22.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.87	37.48	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.98	27.93	32.94	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.45	37.56	-

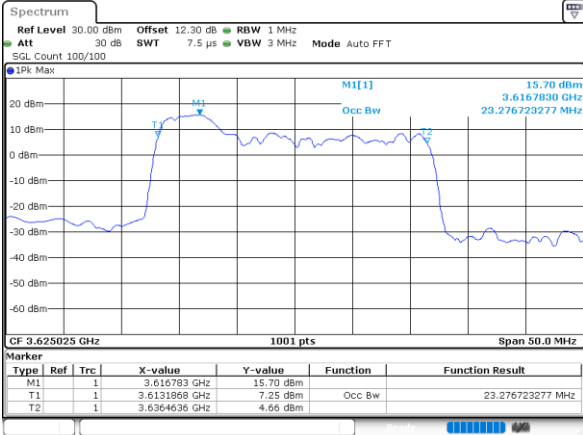
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.28	27.99	32.66	22.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.63	32.80	37.56	-



LTE Band 48C

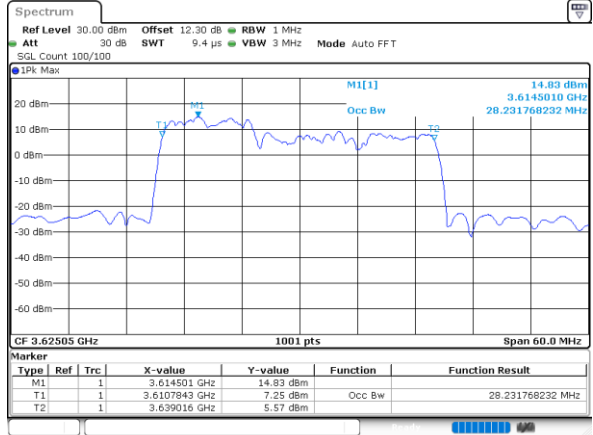
QPSK

Middle Channel / 5MHz+20MHz



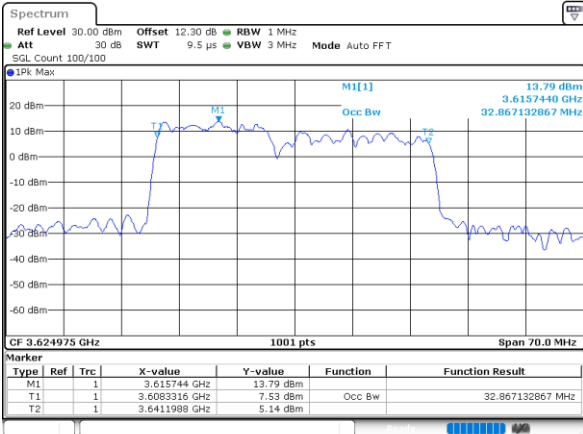
Date: 24.MAR.2021 14:26:13

Middle Channel / 10MHz+20MHz



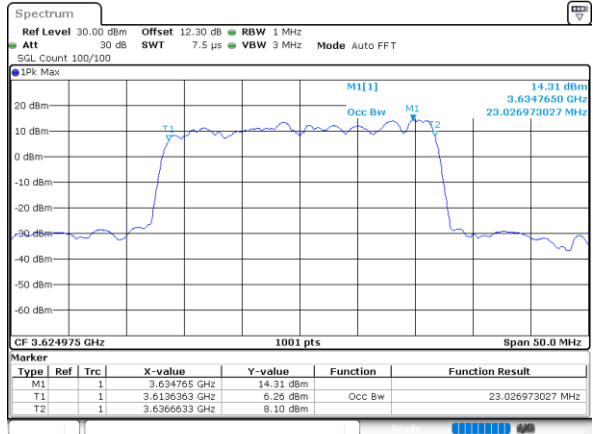
Date: 24.MAR.2021 16:46:40

Middle Channel / 15MHz+20MHz



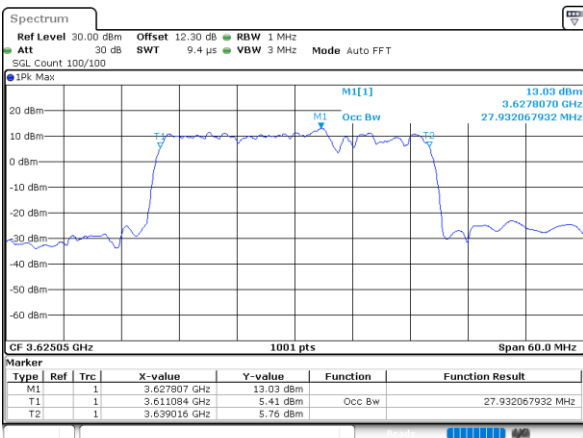
Date: 25.MAR.2021 11:12:36

Middle Channel / 20MHz+5MHz



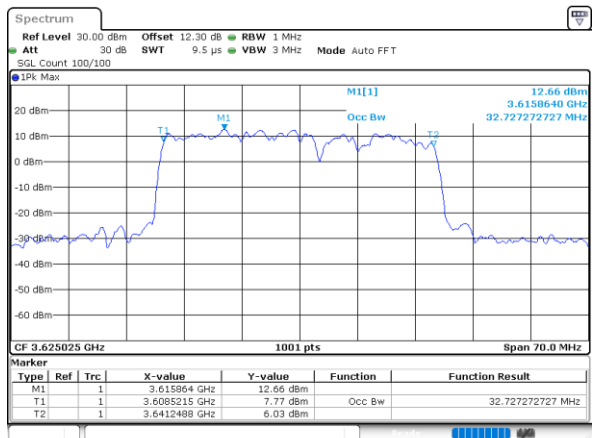
Date: 24.MAR.2021 15:08:52

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:13:55

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:50:53

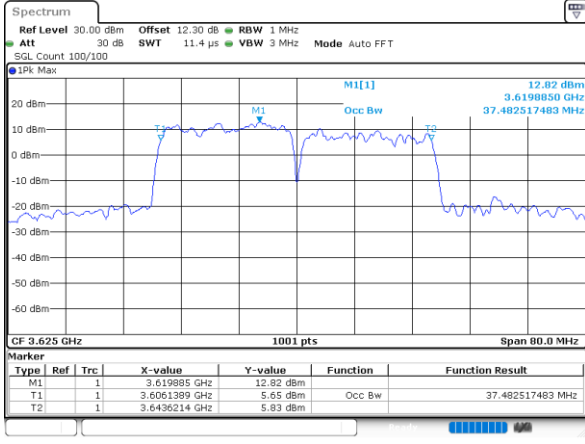


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

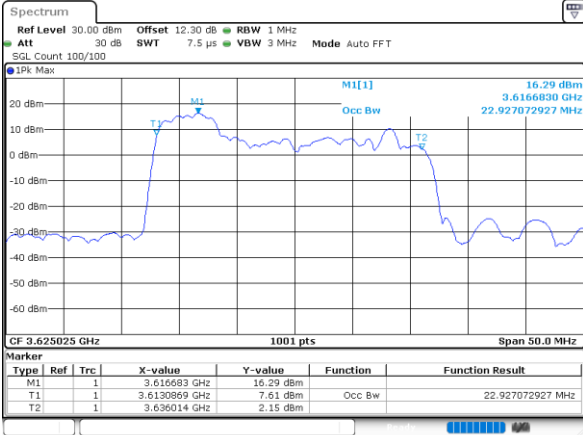




LTE Band 48C

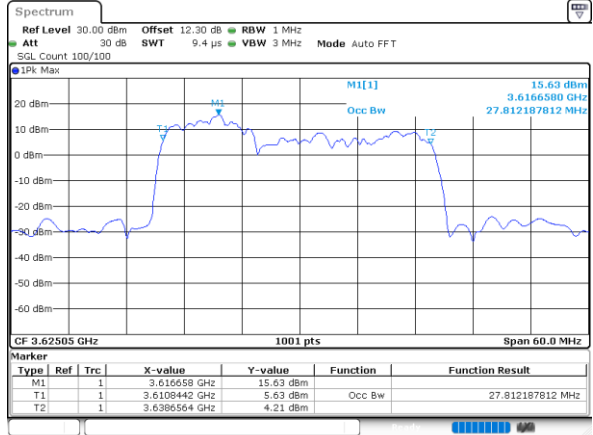
16QAM

Middle Channel / 5MHz+20MHz



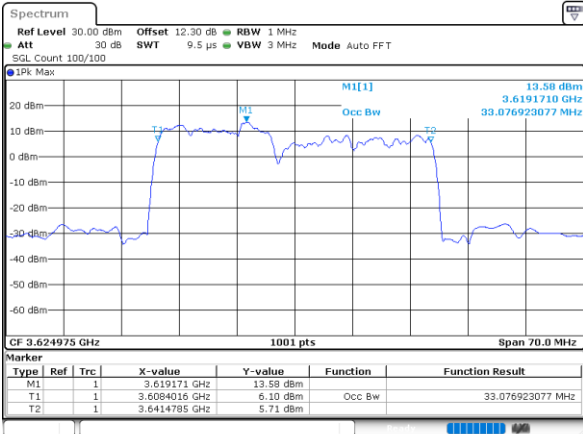
Date: 24.MAR.2021 14:24:00

Middle Channel / 10MHz+20MHz



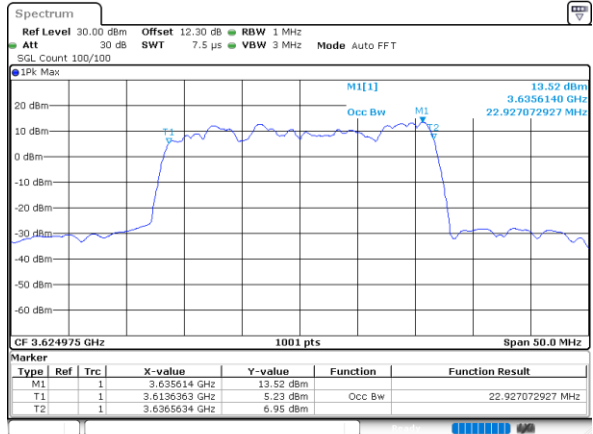
Date: 24.MAR.2021 16:47:03

Middle Channel / 15MHz+20MHz



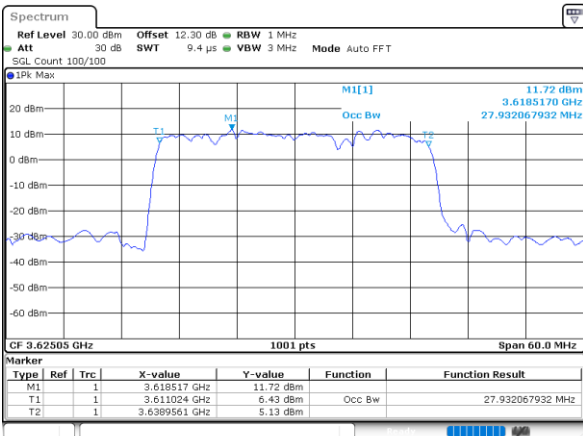
Date: 25.MAR.2021 11:12:59

Middle Channel / 20MHz+5MHz



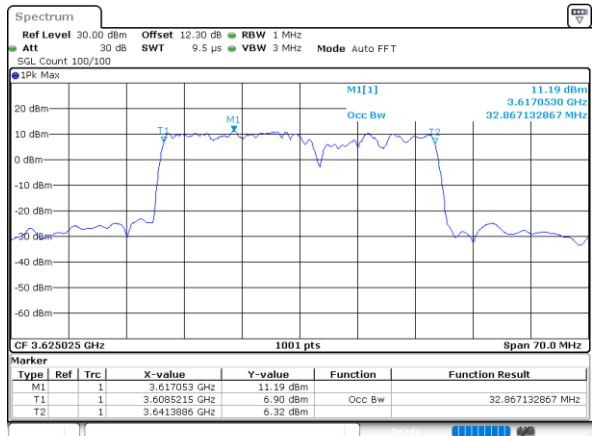
Date: 24.MAR.2021 15:09:14

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:14:18

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:51:16

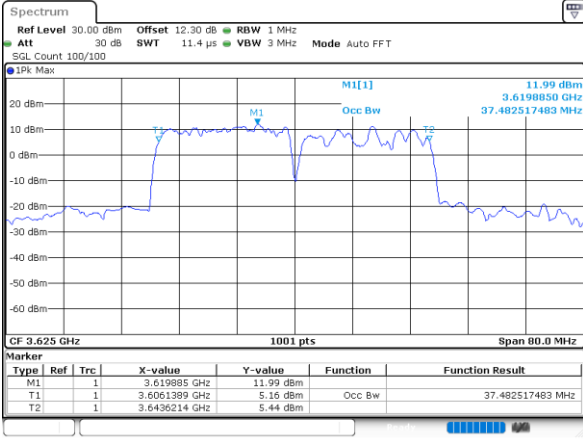


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

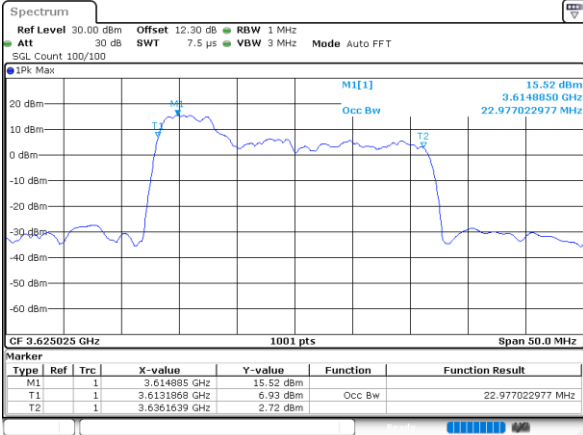




LTE Band 48C

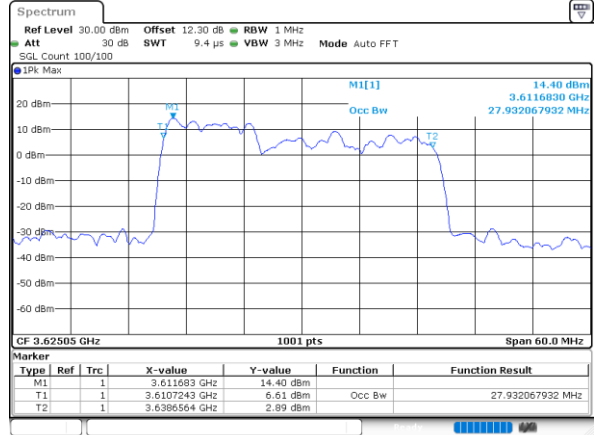
64QAM

Middle Channel / 5MHz+20MHz



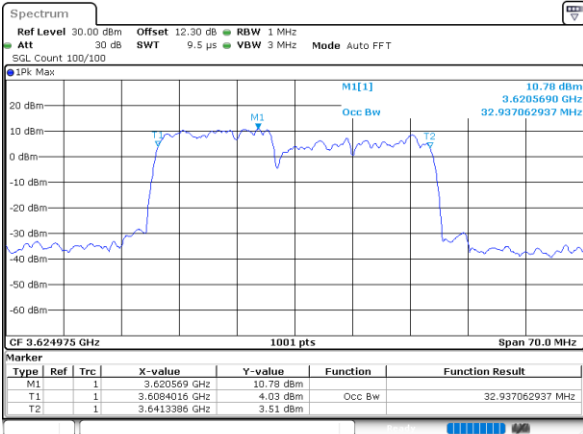
Date: 24.MAR.2021 14:24:23

Middle Channel / 10MHz+20MHz



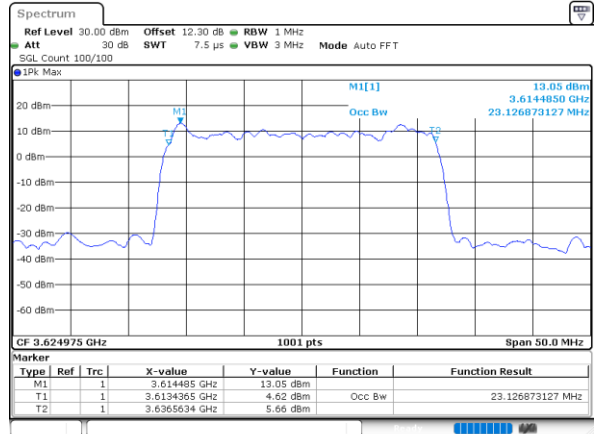
Date: 24.MAR.2021 16:47:25

Middle Channel / 15MHz+20MHz



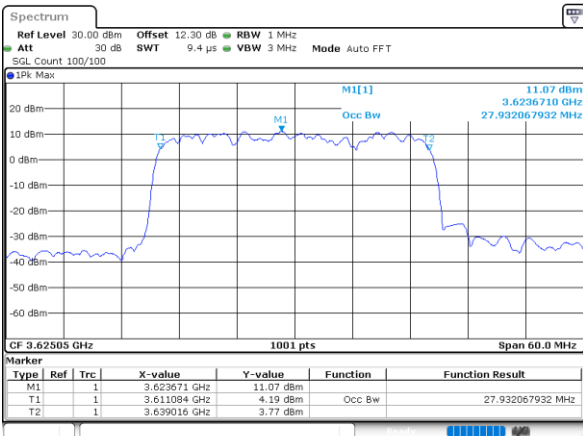
Date: 25.MAR.2021 11:13:21

Middle Channel / 20MHz+5MHz



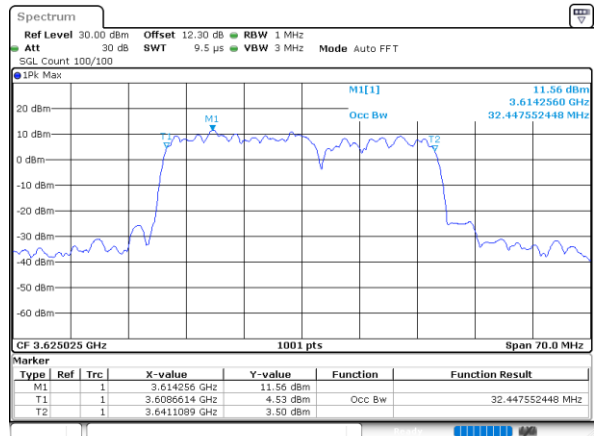
Date: 24.MAR.2021 15:09:36

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:14:40

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:51:38

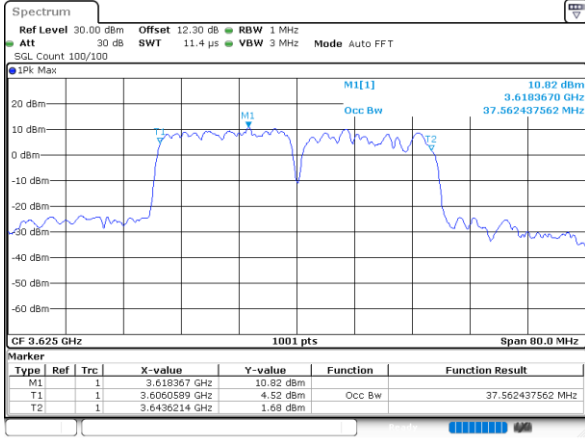


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

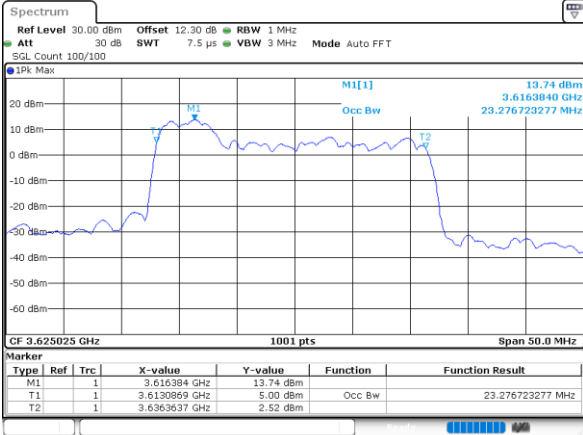




LTE Band 48C

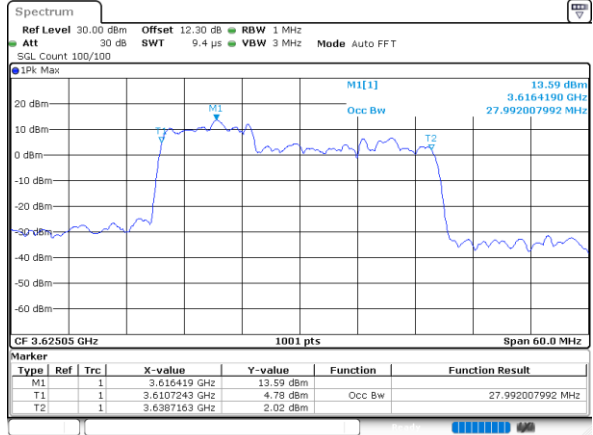
256QAM

Middle Channel / 5MHz+20MHz



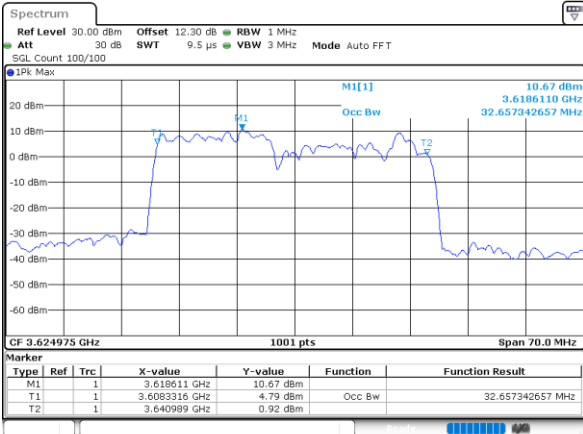
Date: 24.MAR.2021 14:27:32

Middle Channel / 10MHz+20MHz



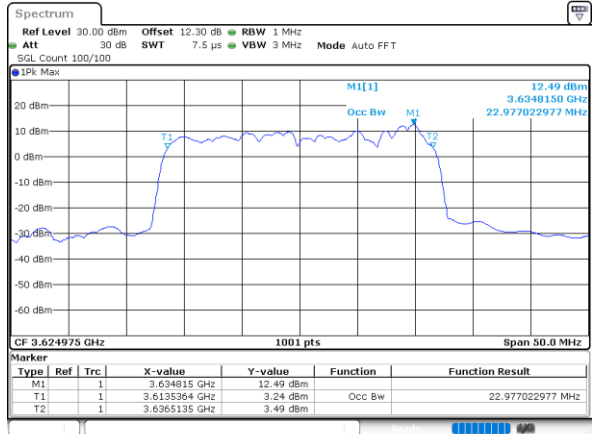
Date: 24.MAR.2021 16:49:16

Middle Channel / 15MHz+20MHz



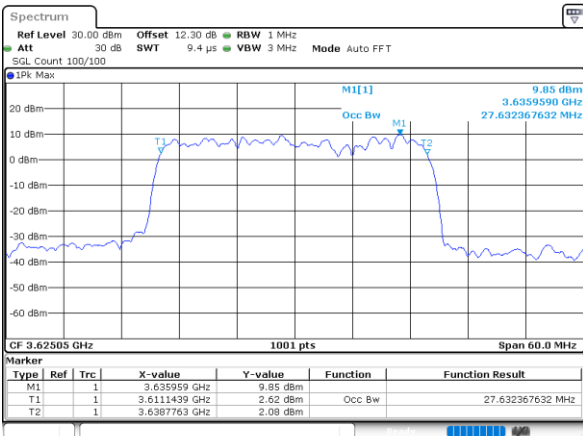
Date: 25.MAR.2021 11:15:12

Middle Channel / 20MHz+5MHz



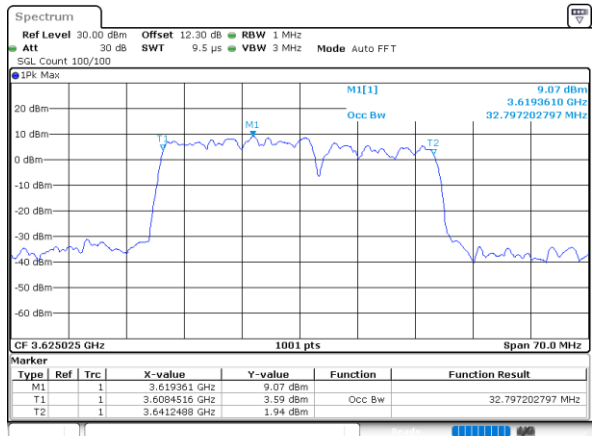
Date: 24.MAR.2021 15:11:27

Middle Channel / 20MHz+10MHz



Date: 25.MAR.2021 10:16:09

Middle Channel / 20MHz+15MHz



Date: 25.MAR.2021 13:53:07

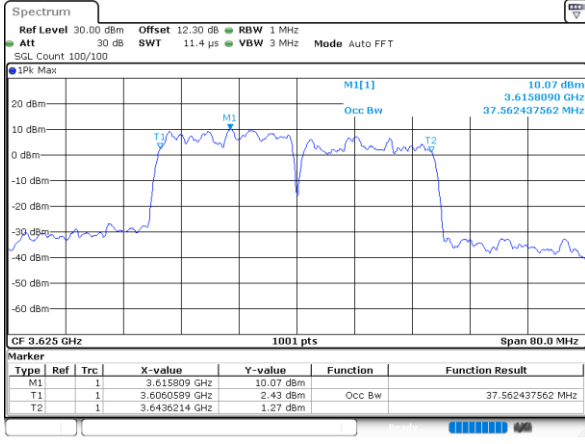


LTE Band 48C

256QAM

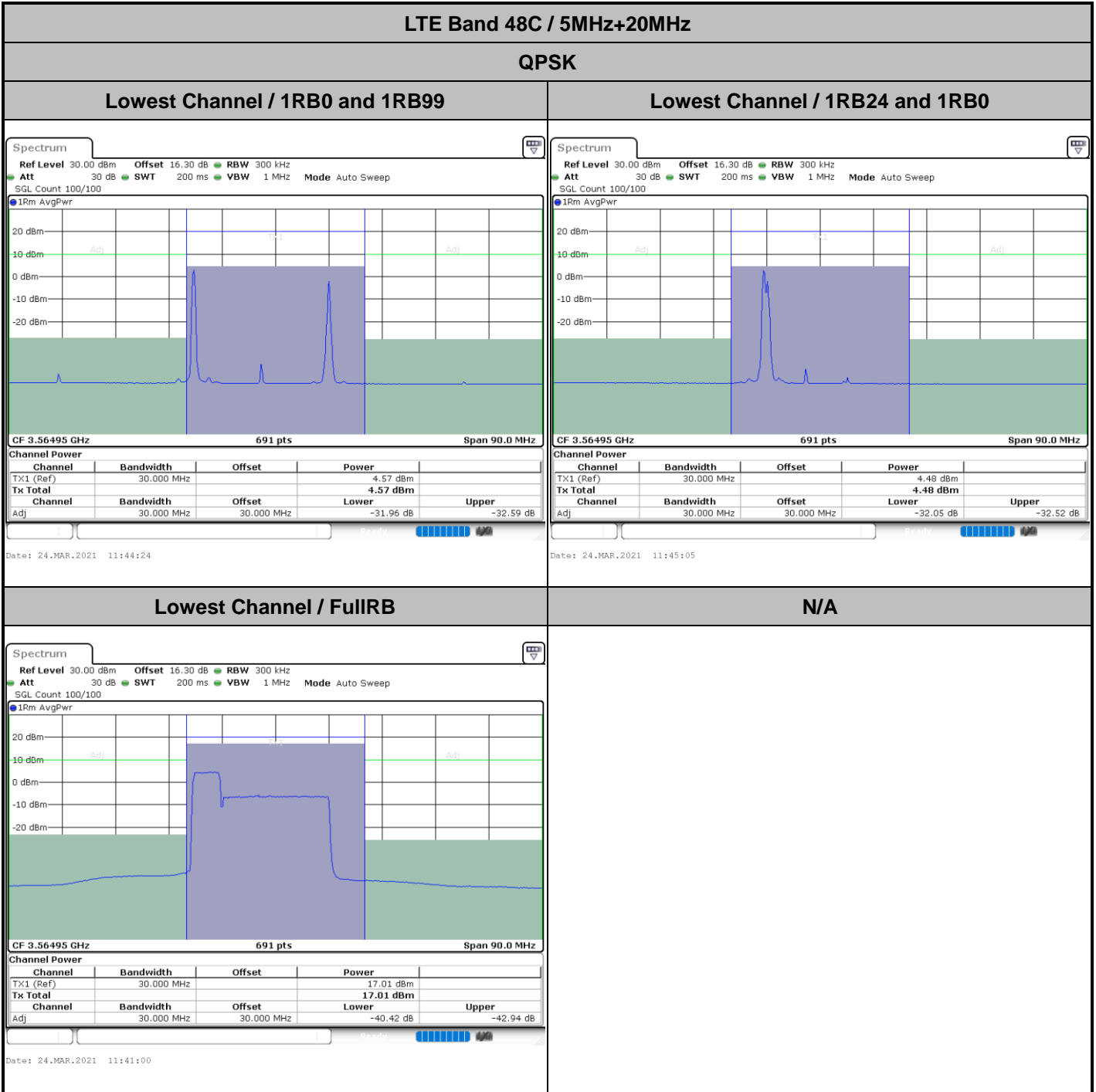
Middle Channel / 20MHz+20MHz

N/A





ACLR



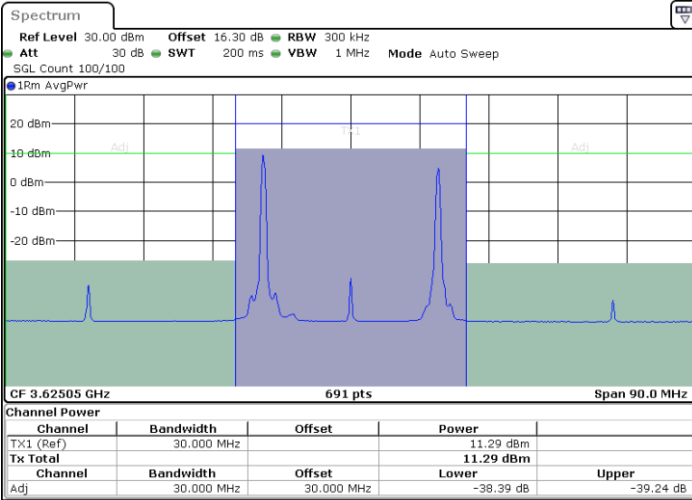


LTE Band 48C / 5MHz+20MHz

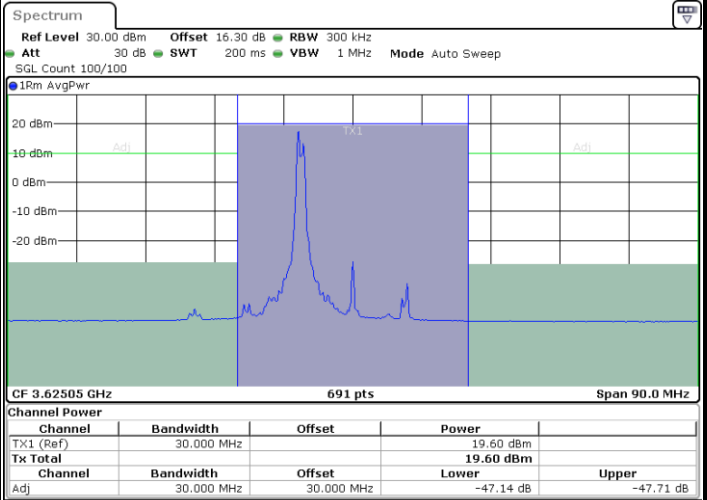
QPSK

Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB24 and 1RB0



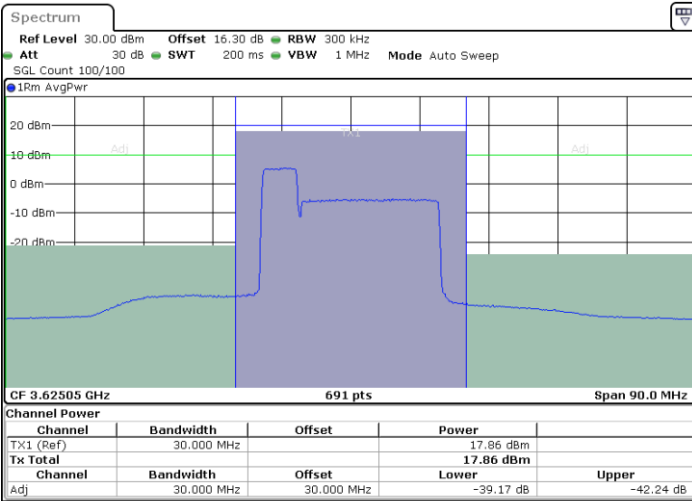
Date: 24.MAR.2021 13:53:45



Date: 24.MAR.2021 13:54:26

Middle Channel / FullIRB

N/A



Date: 24.MAR.2021 13:50:21

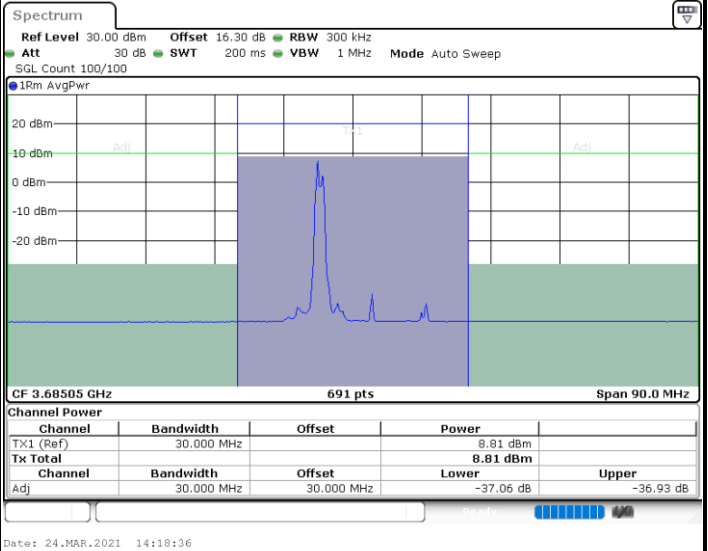
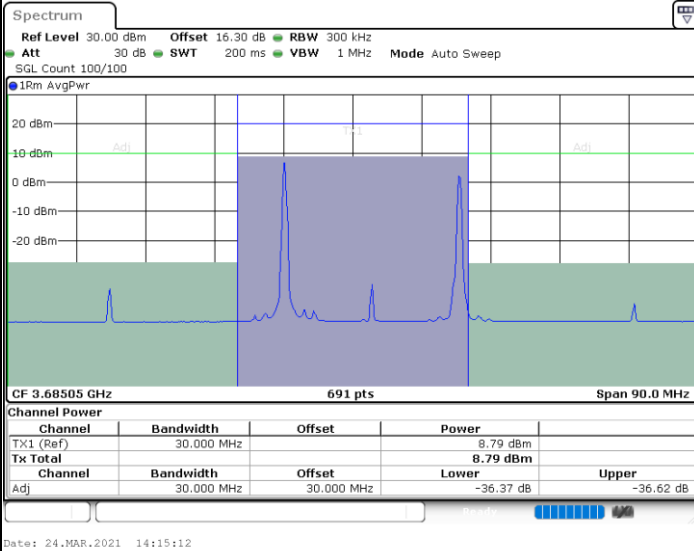


LTE Band 48C / 5MHz+20MHz

QPSK

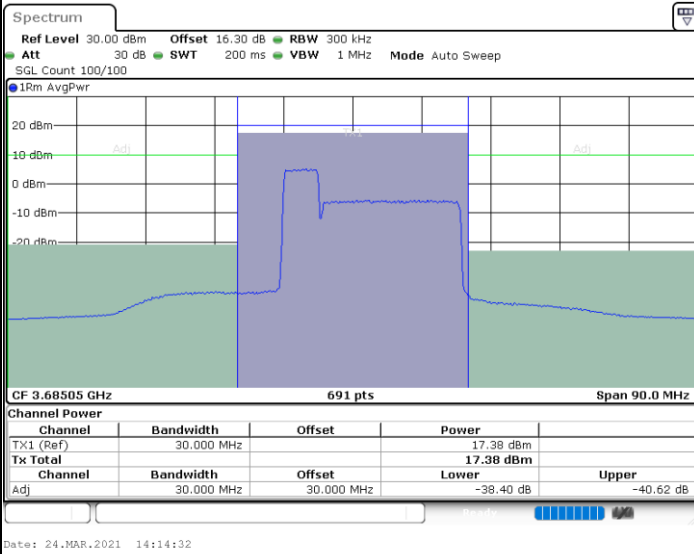
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



Highest Channel / FullIRB

N/A



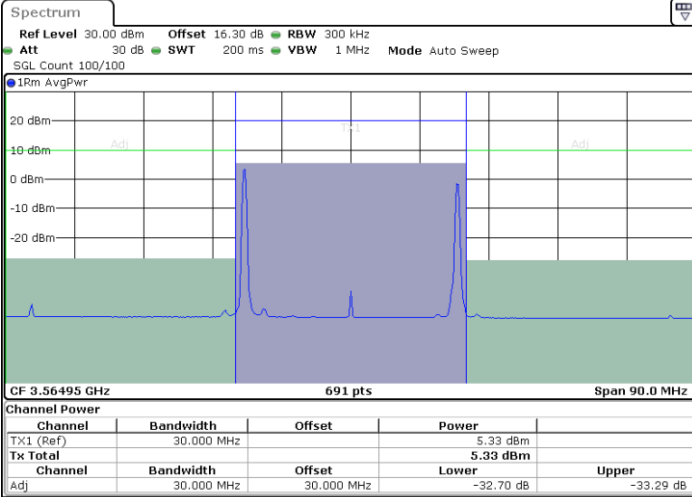


LTE Band 48C / 10MHz+20MHz

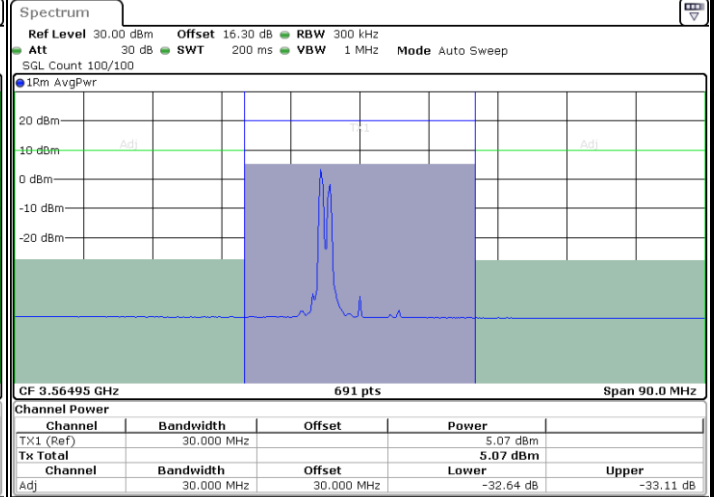
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



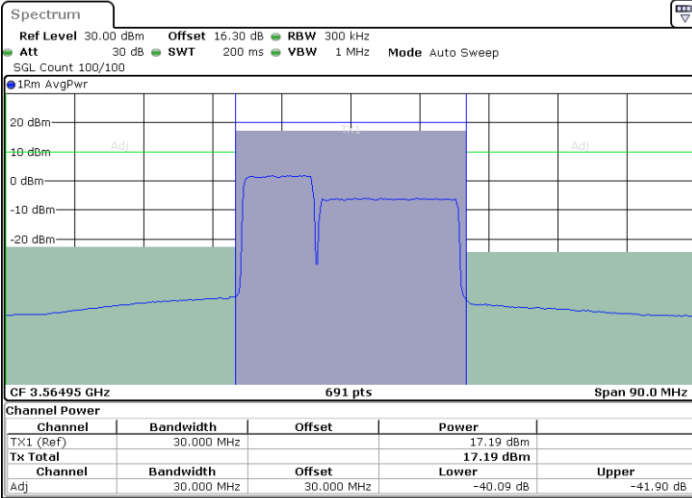
Date: 24.MAR.2021 16:13:56



Date: 24.MAR.2021 16:14:37

Lowest Channel / FullIRB

N/A



Date: 24.MAR.2021 16:10:32

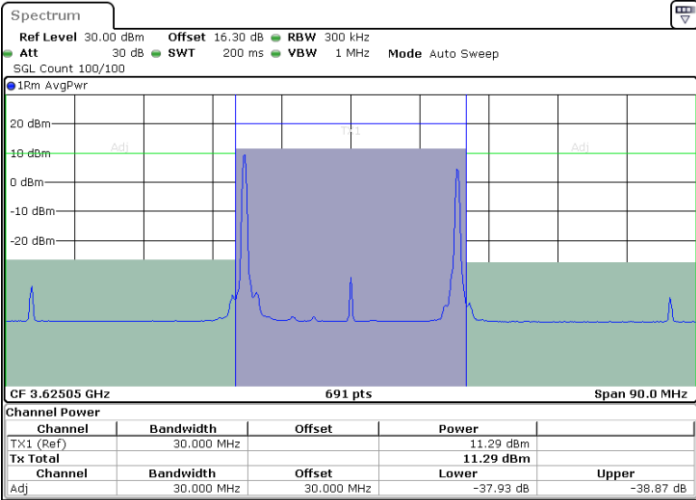


LTE Band 48C / 10MHz+20MHz

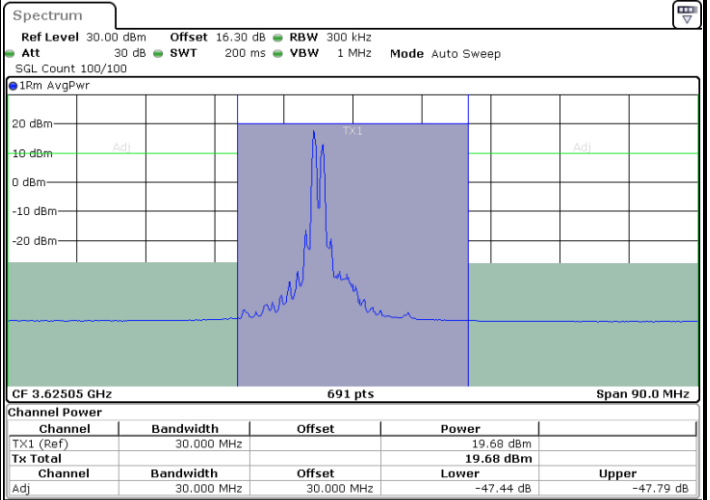
QPSK

Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB49 and 1RB0



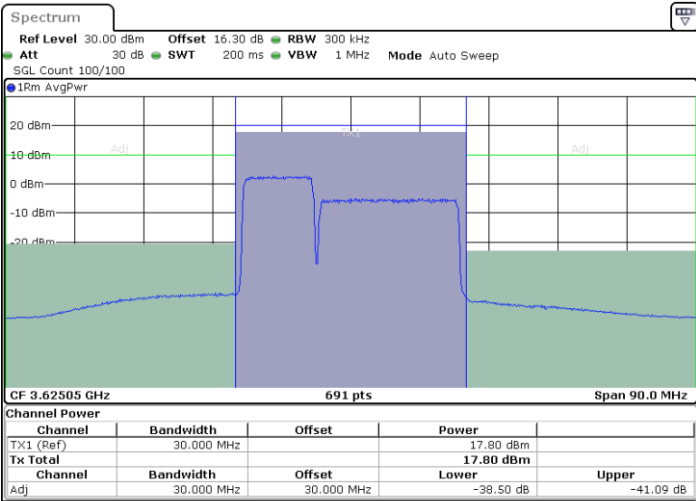
Date: 24.MAR.2021 16:31:28



Date: 24.MAR.2021 16:32:08

Middle Channel / FullIRB

N/A



Date: 24.MAR.2021 16:28:04

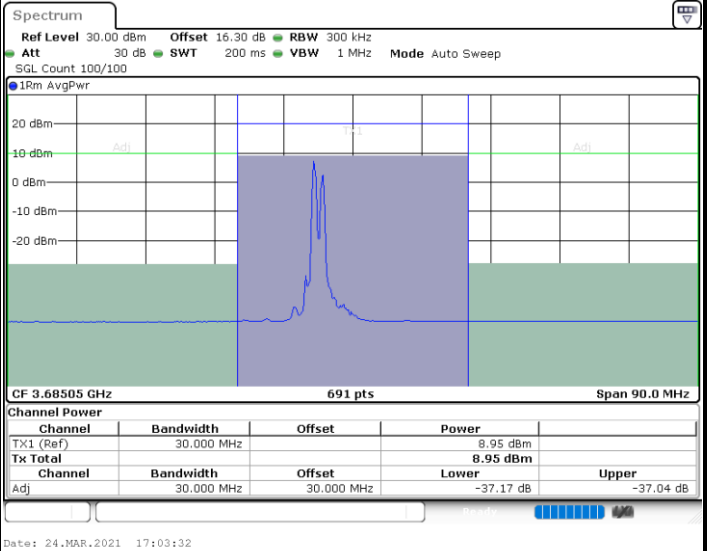
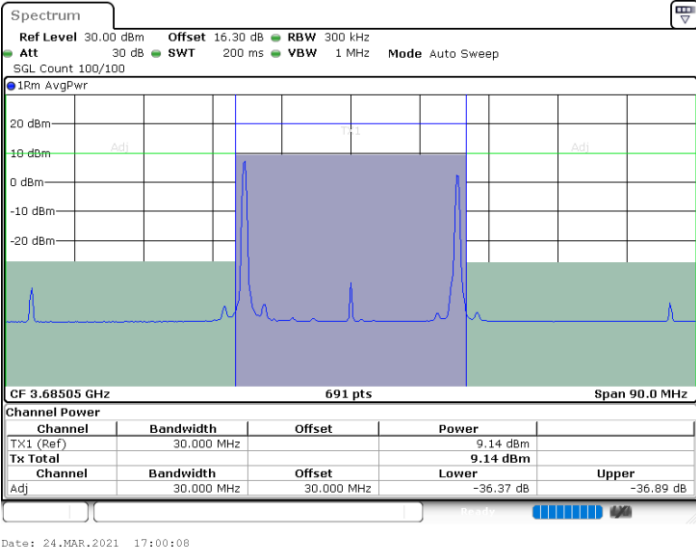


LTE Band 48C / 10MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullIRB

N/A

