

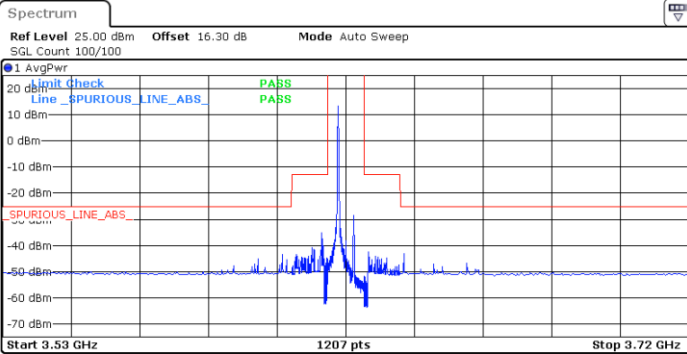


LTE Band 48 / 5MHz

256QAM

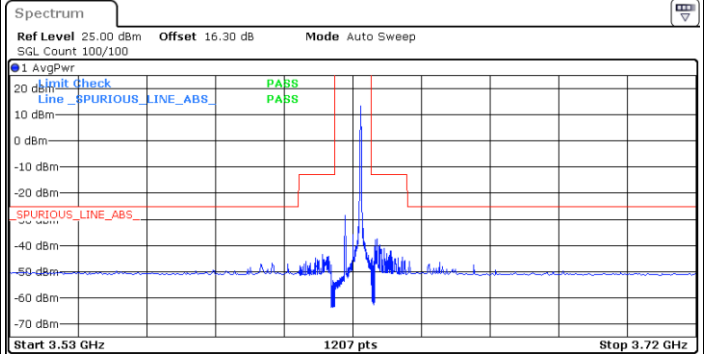
Middle Channel / 1RB0

Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.610 GHz	1.000 MHz	3.60741 GHz	-43.46 dBm	-18.46 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61815 GHz	-35.26 dBm	-22.26 dB
3.619 GHz	3.620 GHz	50.000 kHz	3.61974 GHz	-44.89 dBm	-31.89 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62286 GHz	13.48 dBm	-16.52 dB
3.630 GHz	3.631 GHz	50.000 kHz	3.63009 GHz	-51.68 dBm	-38.68 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63122 GHz	-42.52 dBm	-29.52 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64100 GHz	-43.01 dBm	-18.01 dB



Spurious Emissions

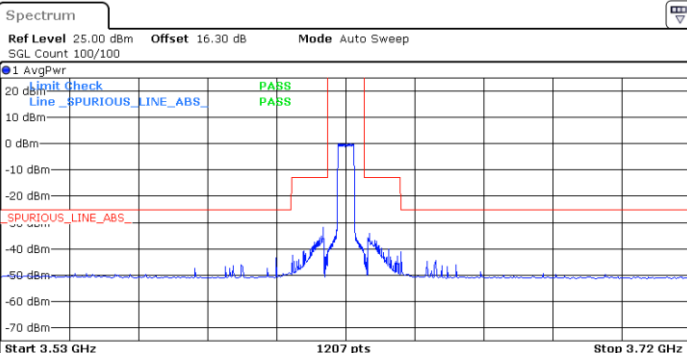
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.610 GHz	1.000 MHz	3.60264 GHz	-46.77 dBm	-21.77 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61655 GHz	-43.33 dBm	-30.33 dB
3.619 GHz	3.620 GHz	50.000 kHz	3.61958 GHz	-53.35 dBm	-40.35 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62714 GHz	13.33 dBm	-16.67 dB
3.630 GHz	3.631 GHz	50.000 kHz	3.63030 GHz	-44.87 dBm	-31.87 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63185 GHz	-37.52 dBm	-24.52 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64060 GHz	-46.21 dBm	-21.21 dB

Date: 14.MAY.2022 16:45:37

Date: 14.MAY.2022 16:52:45

Middle Channel / FullIRB

N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.610 GHz	1.000 MHz	3.60582 GHz	-43.36 dBm	-18.36 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61887 GHz	-31.89 dBm	-18.89 dB
3.619 GHz	3.620 GHz	50.000 kHz	3.61979 GHz	-42.02 dBm	-29.02 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62300 GHz	0.08 dBm	-29.92 dB
3.630 GHz	3.631 GHz	50.000 kHz	3.63019 GHz	-42.25 dBm	-29.25 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63140 GHz	-34.16 dBm	-21.16 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64020 GHz	-41.27 dBm	-16.27 dB

Date: 14.MAY.2022 16:49:10

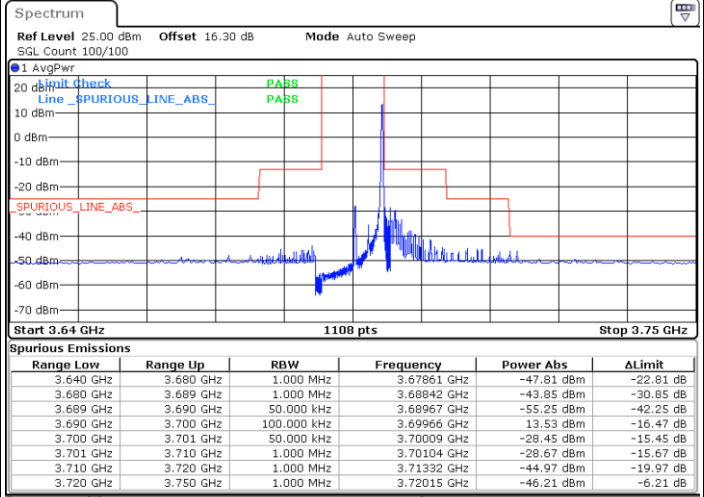
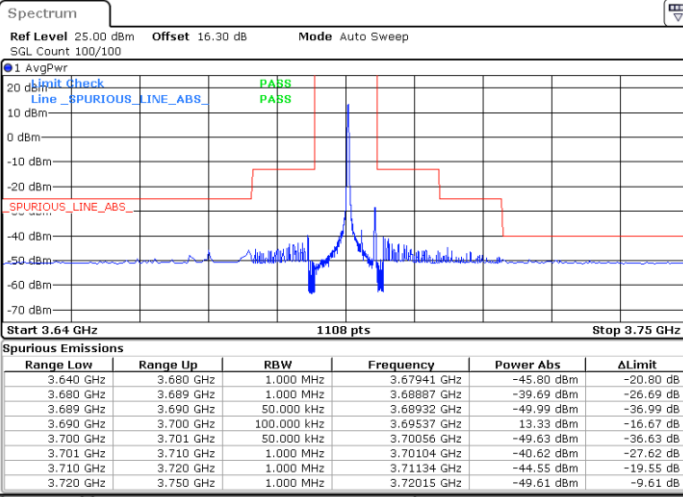


LTE Band 48 / 5MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

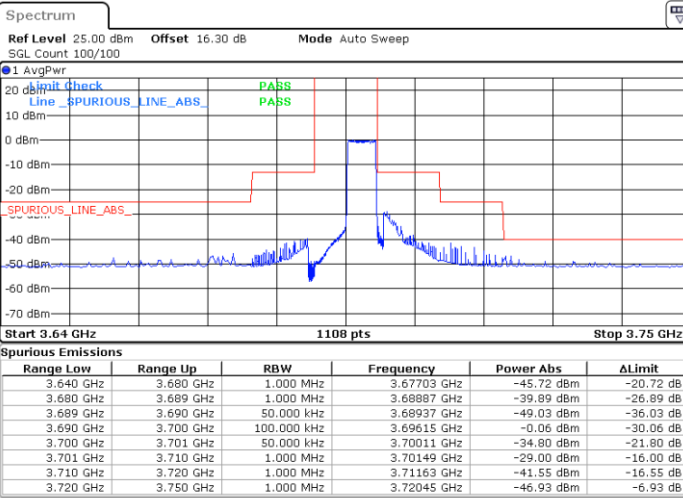


Date: 14.MAY.2022 16:46:48

Date: 14.MAY.2022 16:53:55

Highest Channel / FullIRB

N/A



Date: 14.MAY.2022 16:50:20

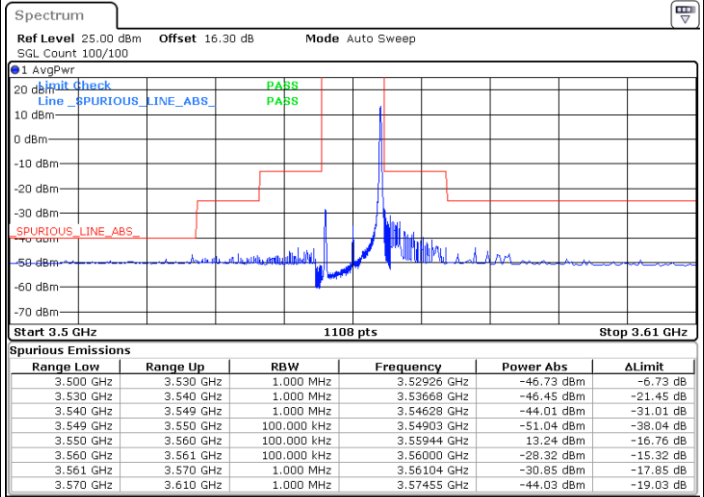
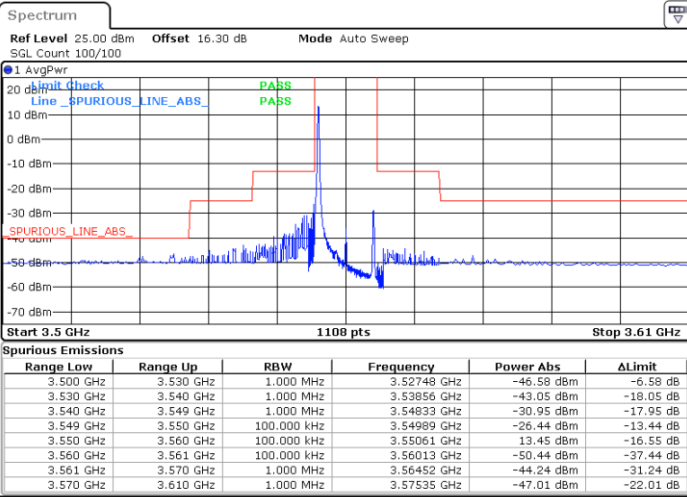


LTE Band 48 / 10MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

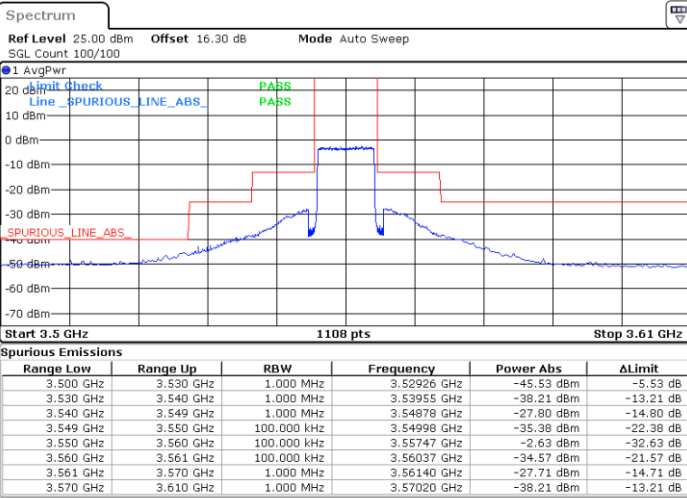


Date: 14.MAY.2022 16:55:09

Date: 14.MAY.2022 17:02:13

Lowest Channel / FullIRB

N/A



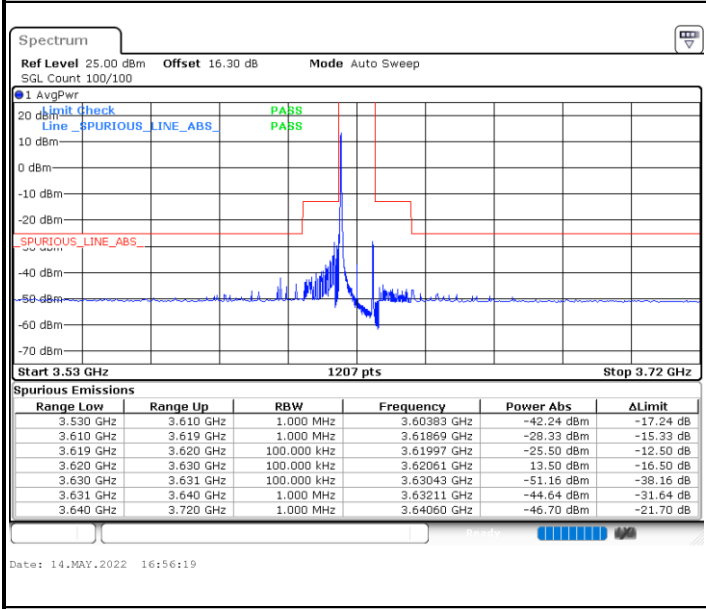
Date: 14.MAY.2022 16:58:41



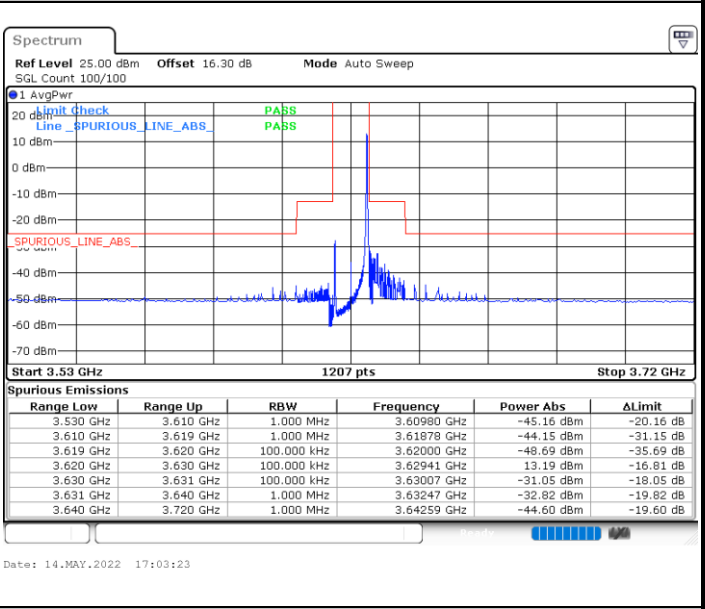
LTE Band 48 / 10MHz

256QAM

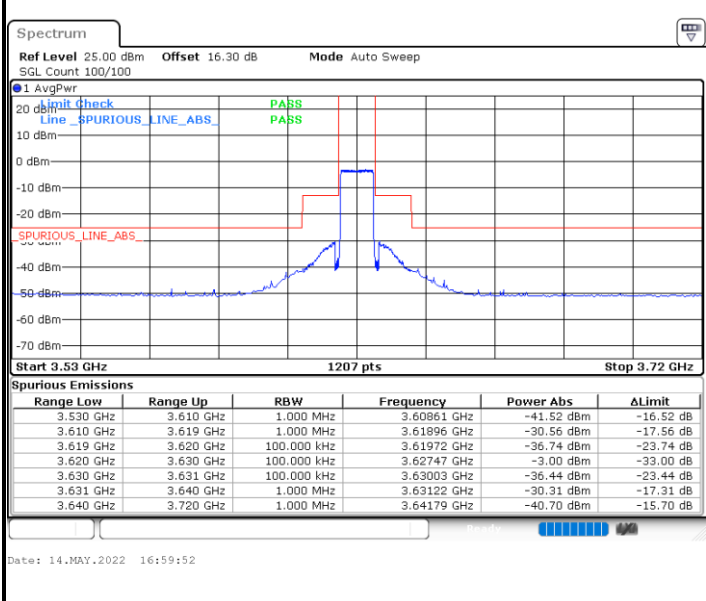
MiddleChannel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullIRB



N/A

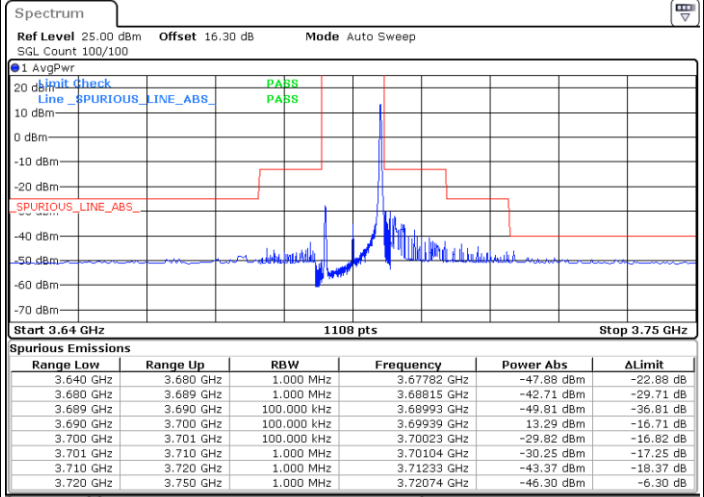
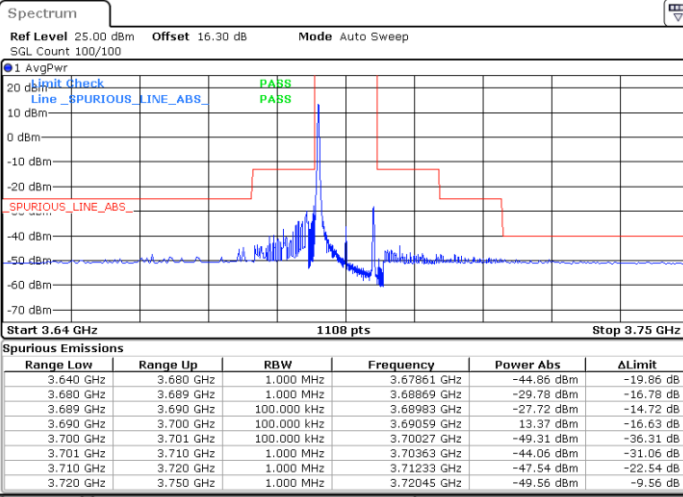


LTE Band 48 / 10MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

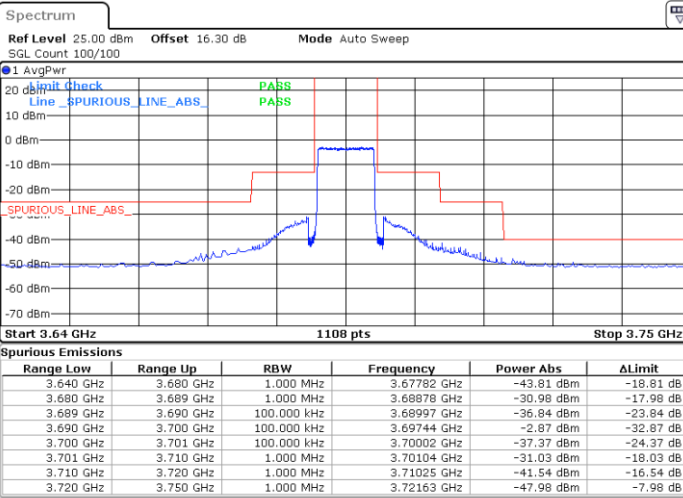


Date: 14.MAY.2022 16:57:30

Date: 14.MAY.2022 17:04:34

Highest Channel / FullIRB

N/A



Date: 14.MAY.2022 17:01:02

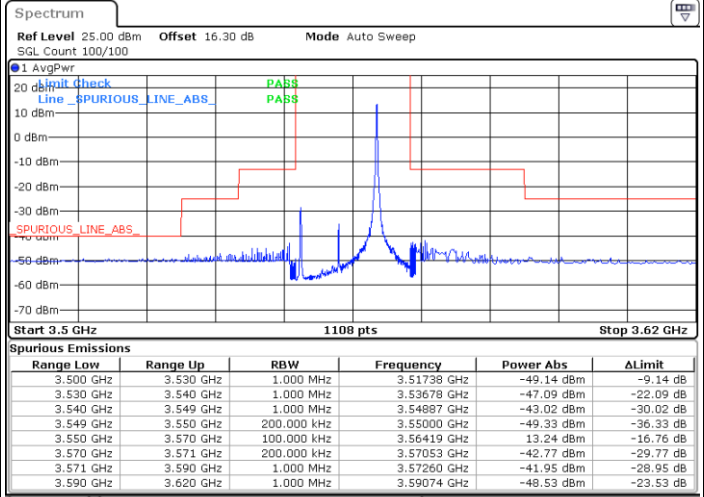
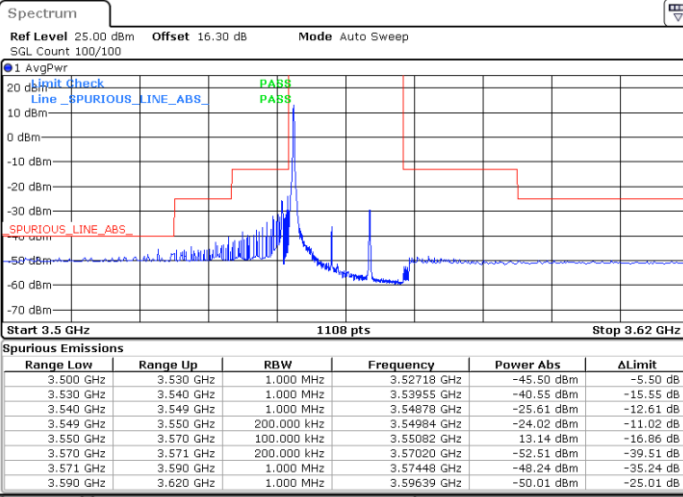


LTE Band 48 / 15MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

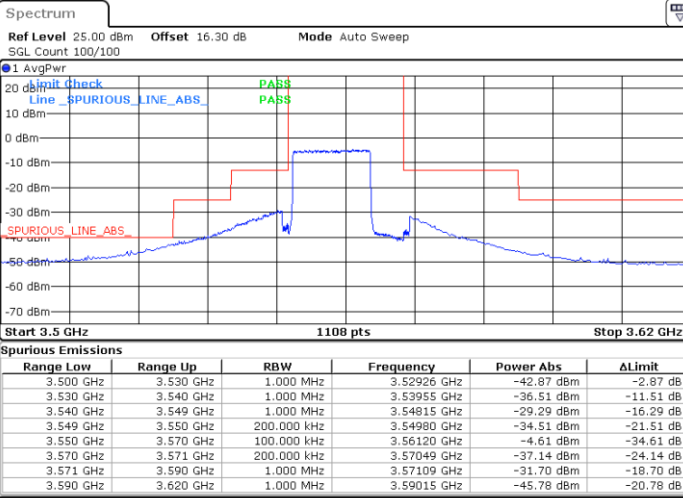


Date: 14.MAY.2022 17:05:47

Date: 14.MAY.2022 17:12:51

Lowest Channel / FullIRB

N/A



Date: 14.MAY.2022 17:09:19

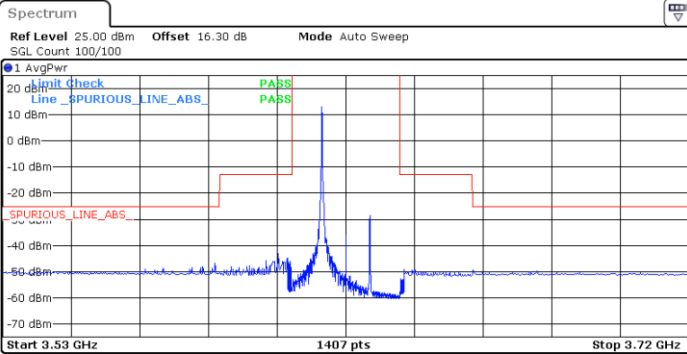


LTE Band 48 / 15MHz

256QAM

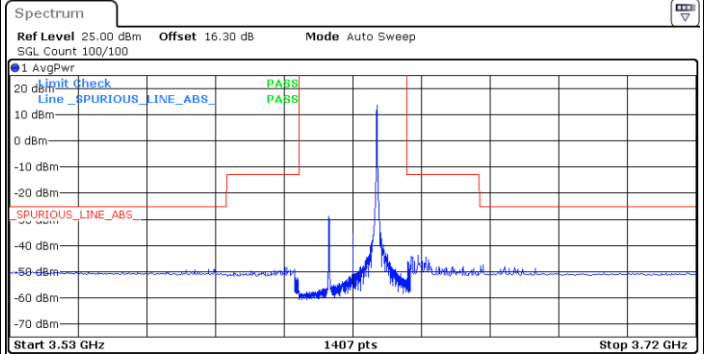
Middle Channel / 1RB0

Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58866 GHz	-46.82 dBm	-21.82 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60627 GHz	-43.16 dBm	-30.16 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60962 GHz	-45.94 dBm	-32.94 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.61831 GHz	13.09 dBm	-16.91 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64007 GHz	-52.77 dBm	-39.77 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64109 GHz	-49.25 dBm	-36.25 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66015 GHz	-49.30 dBm	-24.30 dB



Spurious Emissions

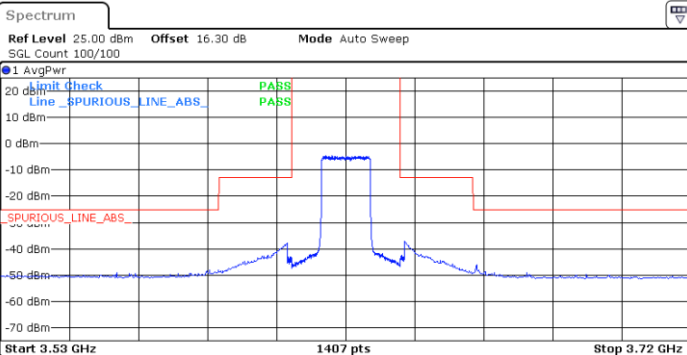
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58657 GHz	-48.97 dBm	-23.97 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60684 GHz	-48.37 dBm	-35.37 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60954 GHz	-52.28 dBm	-39.28 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.63169 GHz	13.85 dBm	-16.15 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64004 GHz	-46.01 dBm	-33.01 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64298 GHz	-43.80 dBm	-30.80 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66104 GHz	-47.50 dBm	-22.50 dB

Date: 14.MAY.2022 17:06:57

Date: 14.MAY.2022 17:14:02

Middle Channel / FullIRB

N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58746 GHz	-48.00 dBm	-23.00 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60891 GHz	-37.87 dBm	-24.87 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60969 GHz	-42.98 dBm	-29.98 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.62111 GHz	-4.64 dBm	-34.64 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64029 GHz	-42.59 dBm	-29.59 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64109 GHz	-37.25 dBm	-24.25 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66104 GHz	-46.18 dBm	-21.18 dB

Date: 14.MAY.2022 17:10:30

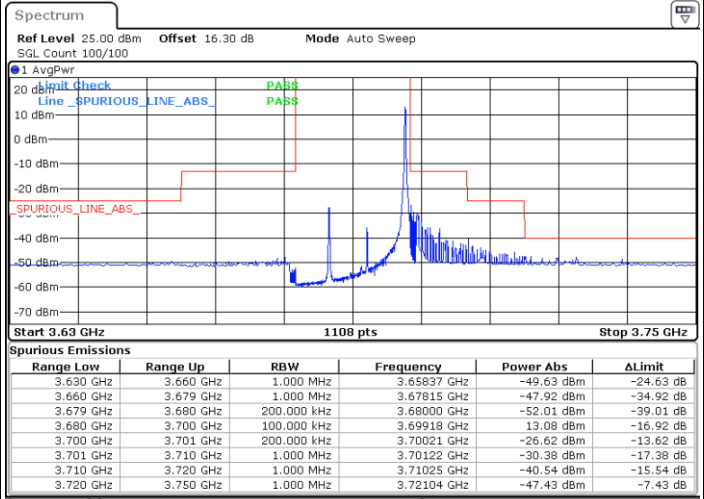
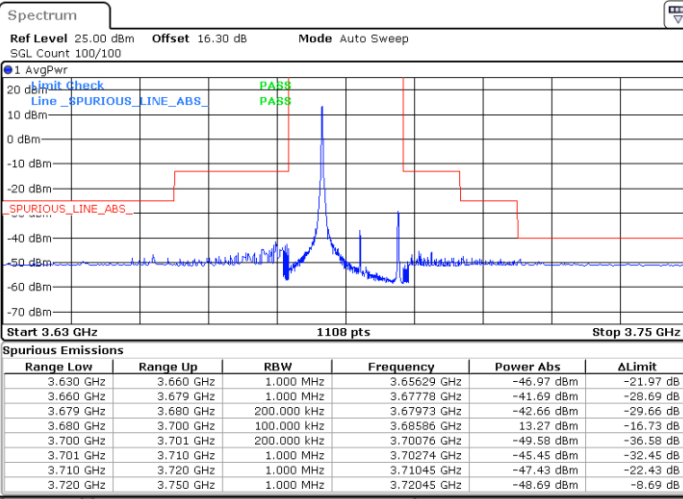


LTE Band 48 / 15MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

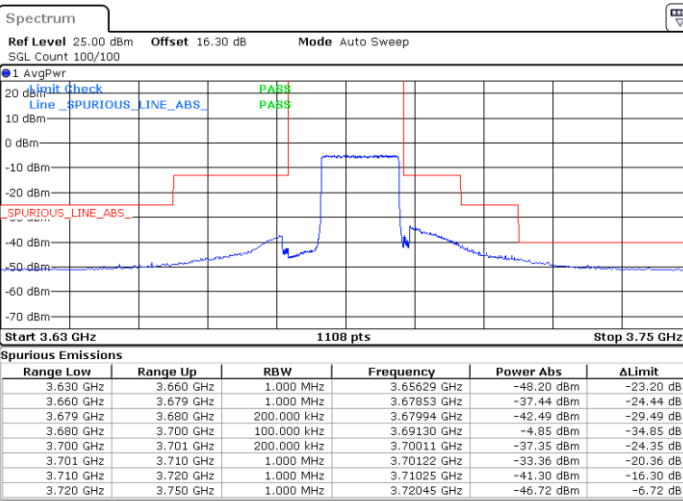


Date: 14.MAY.2022 17:08:08

Date: 14.MAY.2022 17:15:12

Highest Channel / FullIRB

N/A



Date: 14.MAY.2022 17:11:40

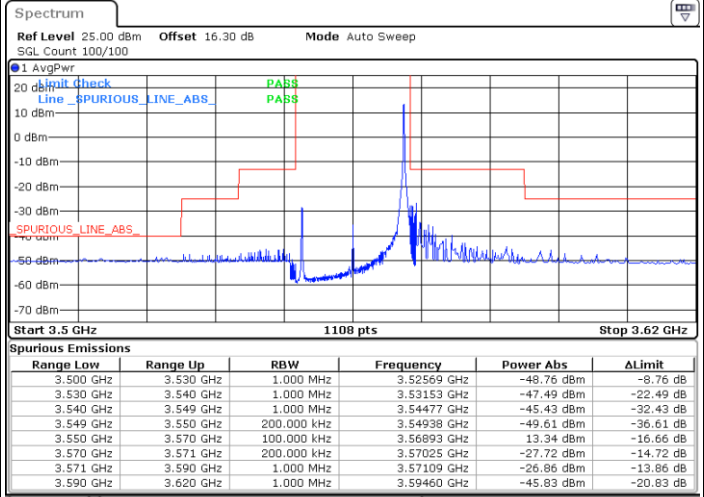
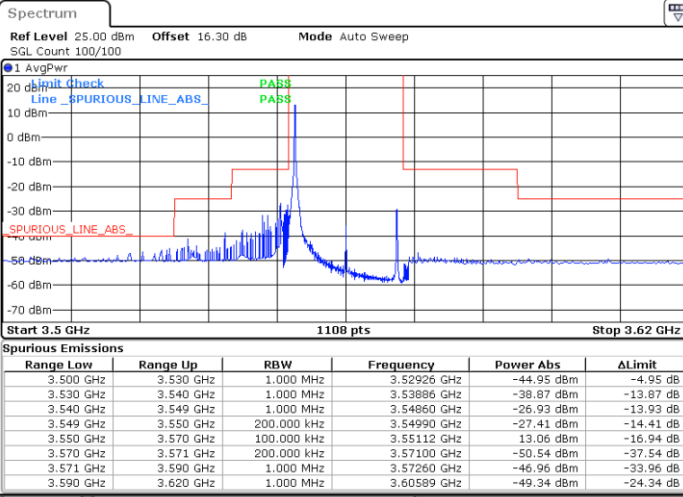


LTE Band 48 / 20MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

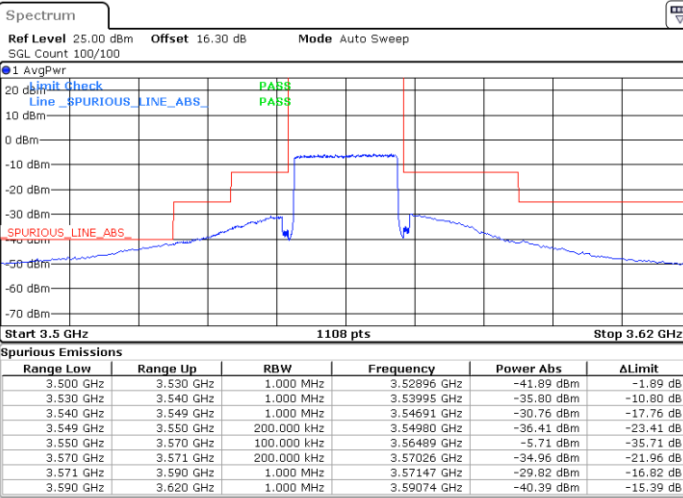


Date: 14.MAY.2022 17:19:58

Date: 14.MAY.2022 17:23:31

Lowest Channel / FullIRB

N/A



Date: 14.MAY.2022 17:16:26

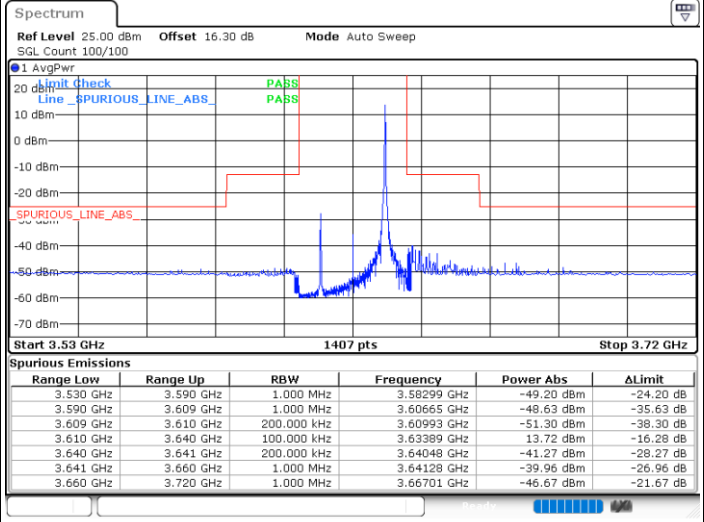
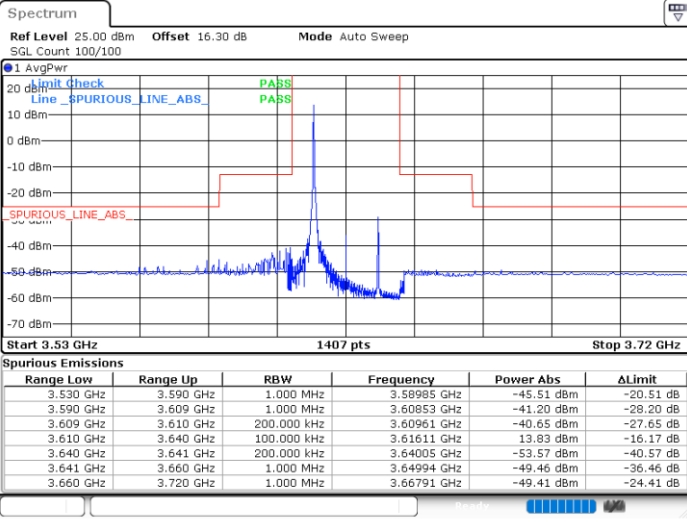


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

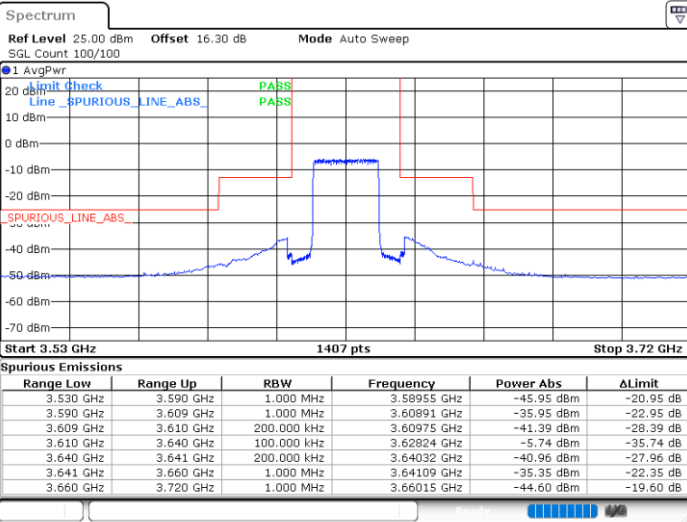


Date: 14.MAY.2022 17:21:09

Date: 14.MAY.2022 17:24:42

Middle Channel / FullIRB

N/A



Date: 14.MAY.2022 17:17:36

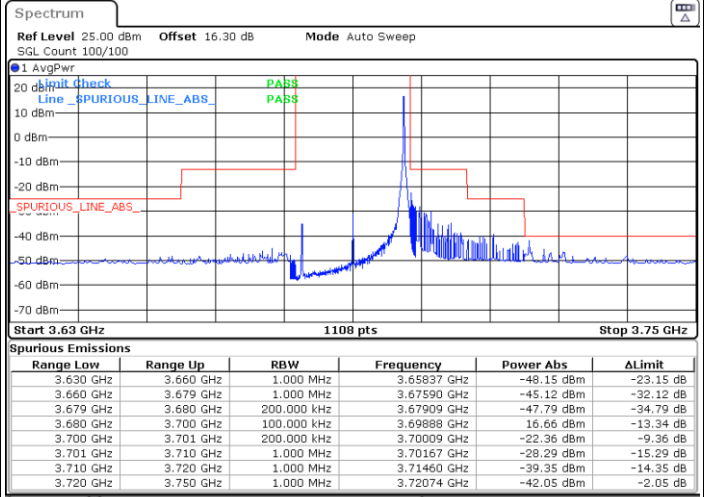
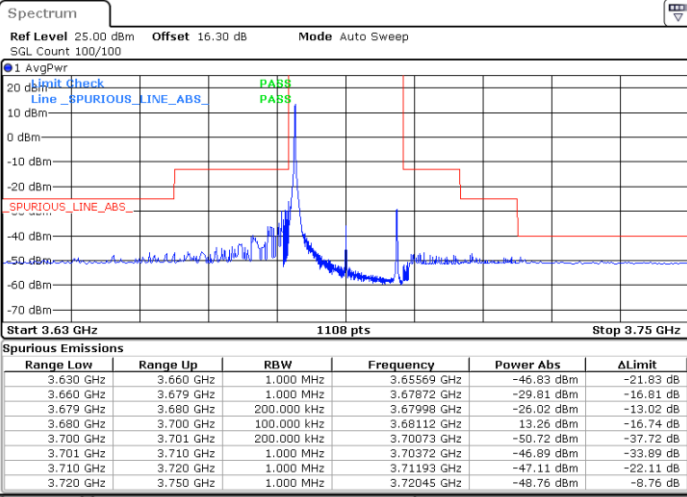


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

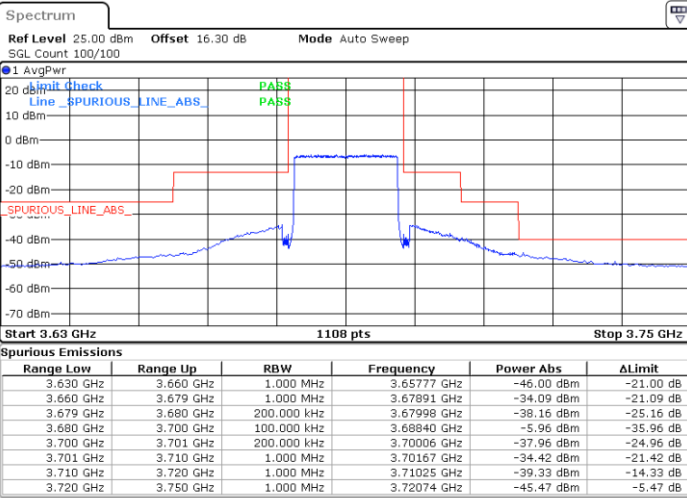


Date: 14.MAY.2022 17:22:20

Date: 4.JUN.2022 02:03:01

Highest Channel / FullIRB

N/A



Date: 14.MAY.2022 17:18:47

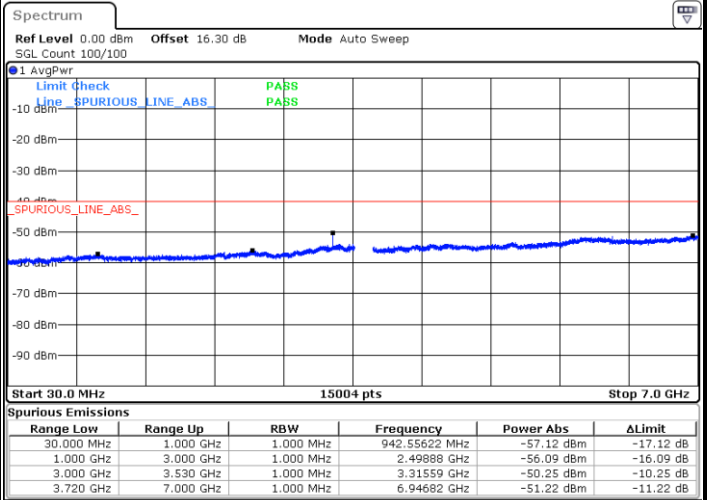
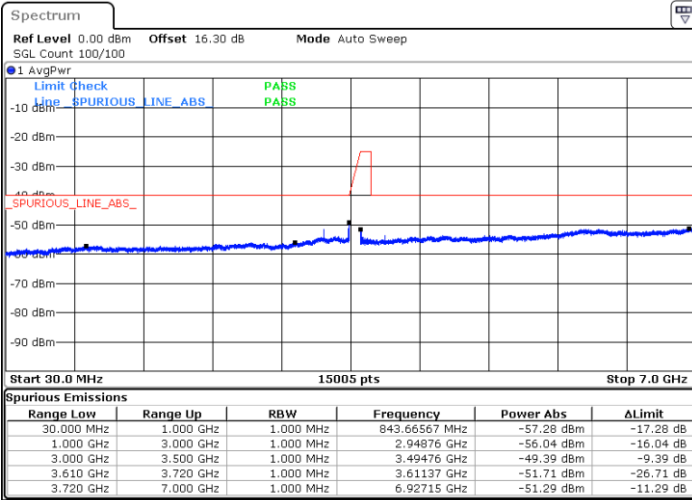


Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

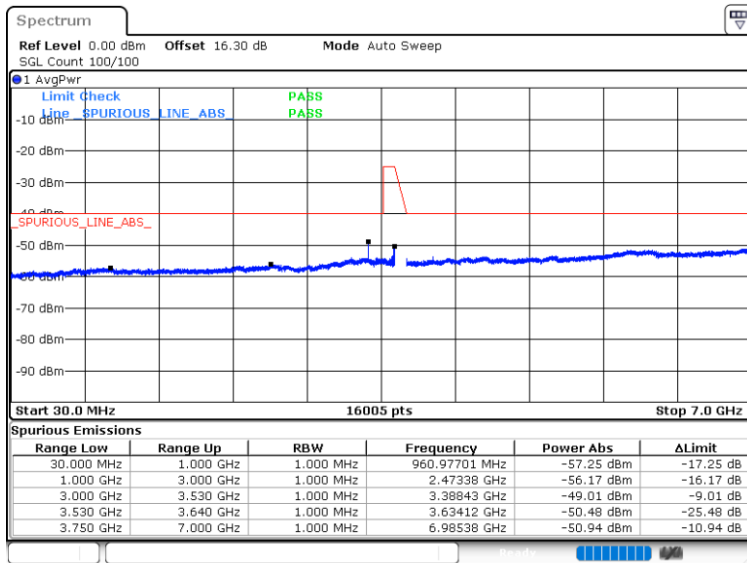
Middle Channel / QPSK



Date: 14.MAY.2022 16:28:17

Date: 14.MAY.2022 16:29:37

Highest Channel / QPSK

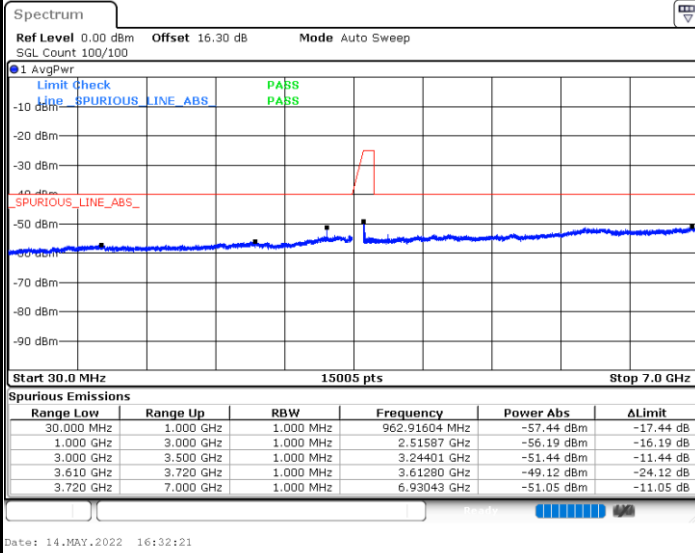


Date: 14.MAY.2022 16:30:58

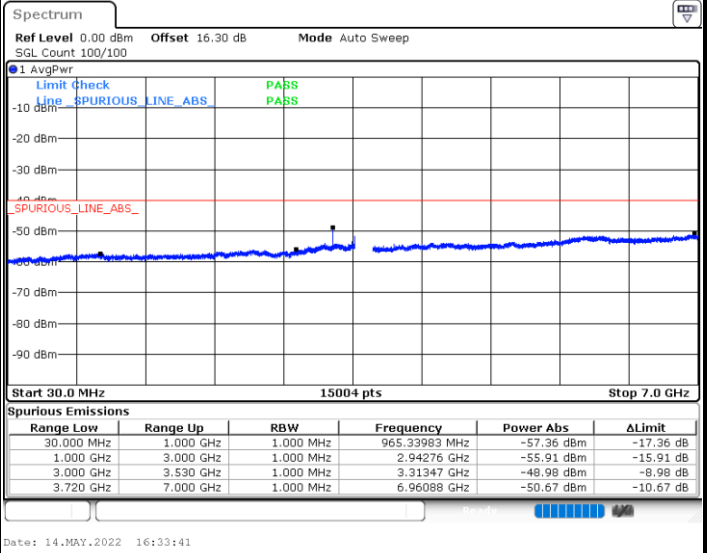


LTE Band 48 / 10MHz

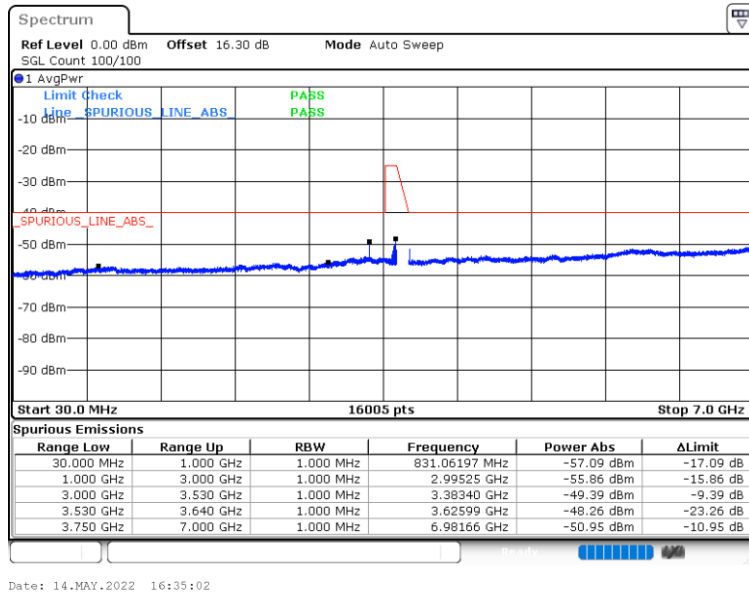
Lowest Channel / QPSK



Middle Channel / QPSK



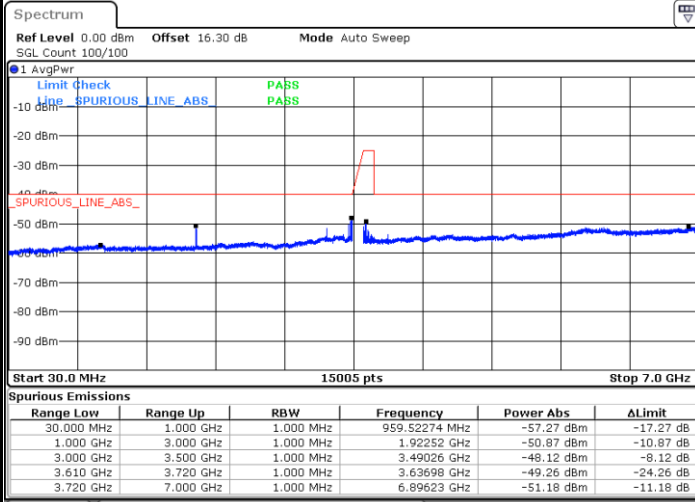
Highest Channel / QPSK





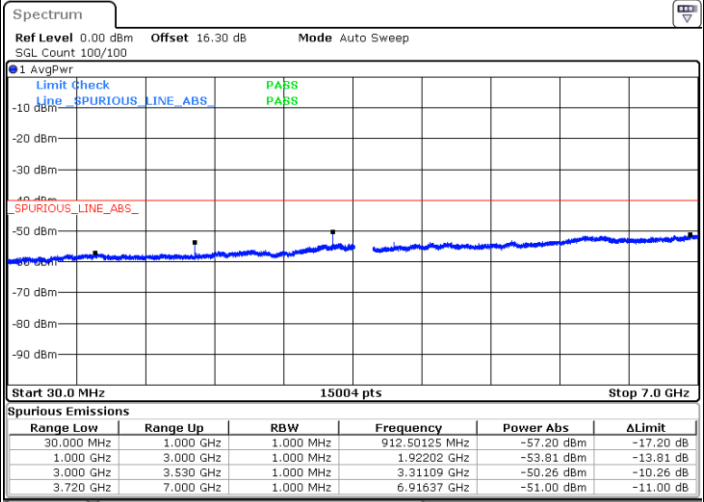
LTE Band 48 / 15MHz

Lowest Channel / QPSK



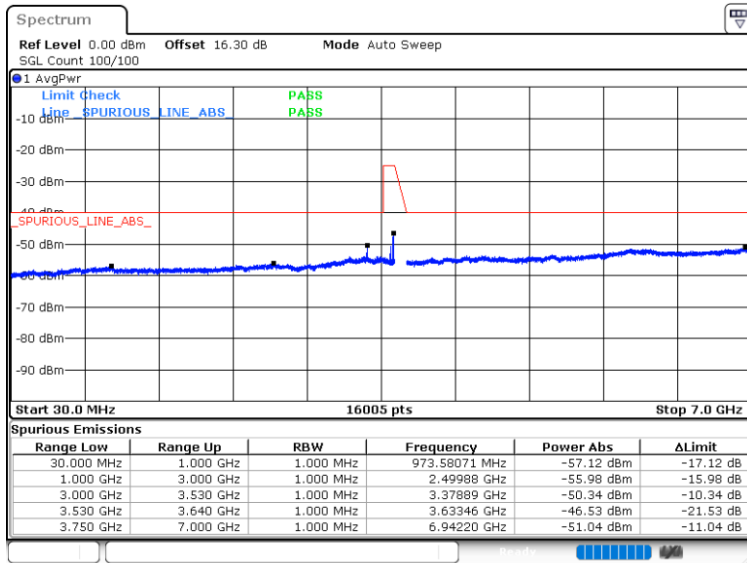
Date: 14.MAY.2022 16:36:25

Middle Channel / QPSK



Date: 14.MAY.2022 16:37:46

Highest Channel / QPSK



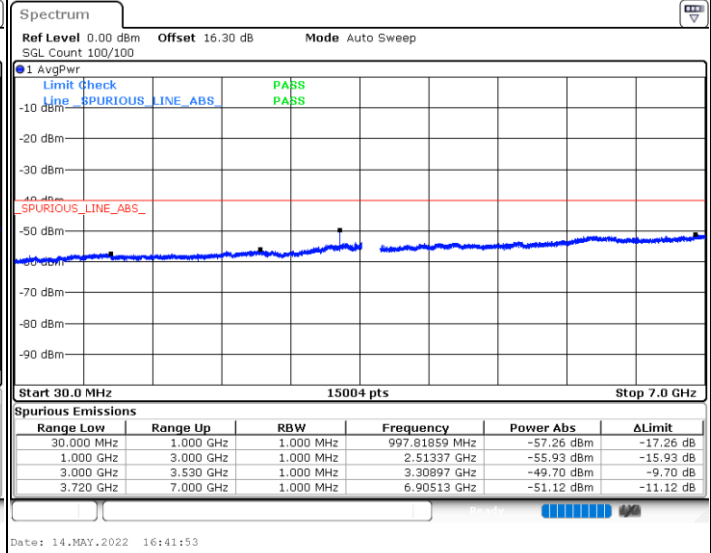
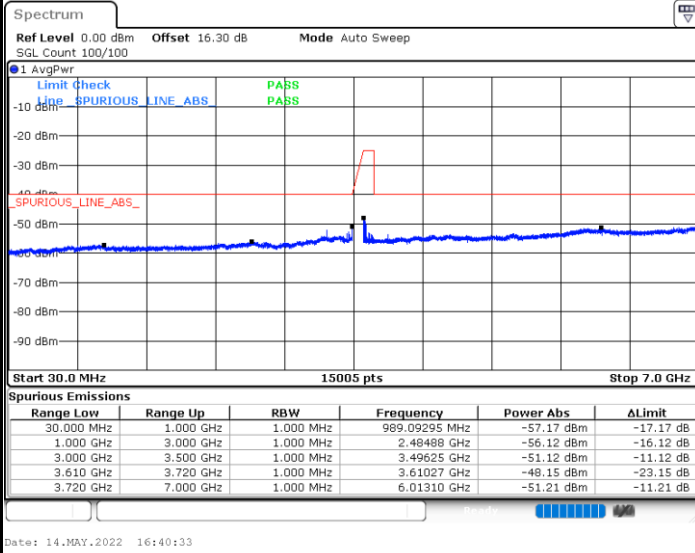
Date: 14.MAY.2022 16:39:06



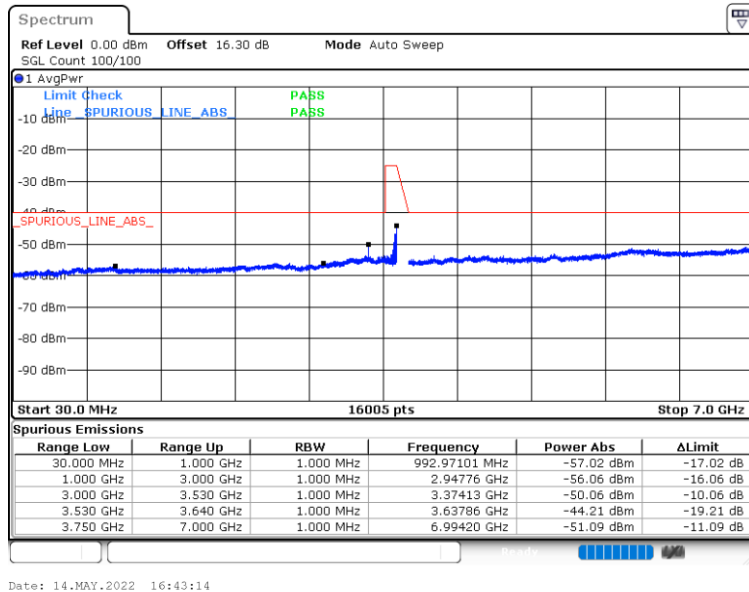
LTE Band 48 / 20MHz

Lowest Channel / QPSK

Middle 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	0.0006	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0041	
-20	Normal Voltage	0.0006	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

- 1. Normal Voltage = 4.05 V. ; Battery End Point (ACLRP) = 3.85 V. ; Maximum Voltage = 4.35 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	24.73	29.97	34.76	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	35.11	39.72	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.93	29.67	34.90	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.76	39.96	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.68	29.91	34.69	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.76	39.72	-

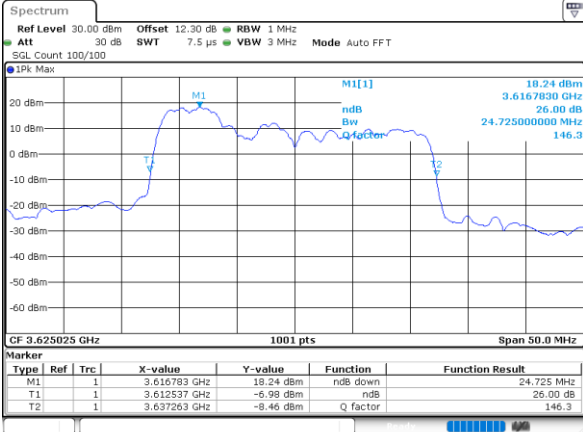
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.73	29.79	34.62	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.85	34.83	39.80	-



LTE Band 48C

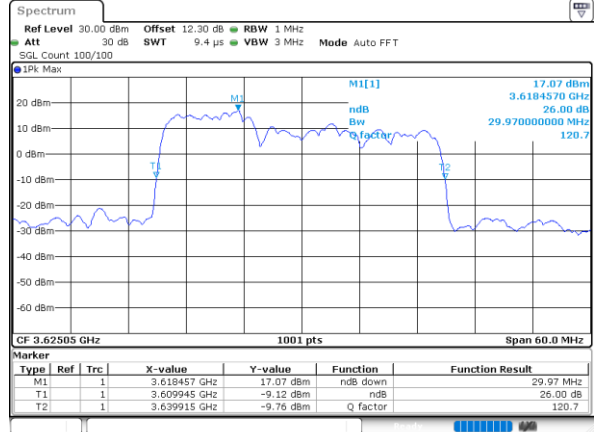
QPSK

Middle Channel / 5MHz+20MHz



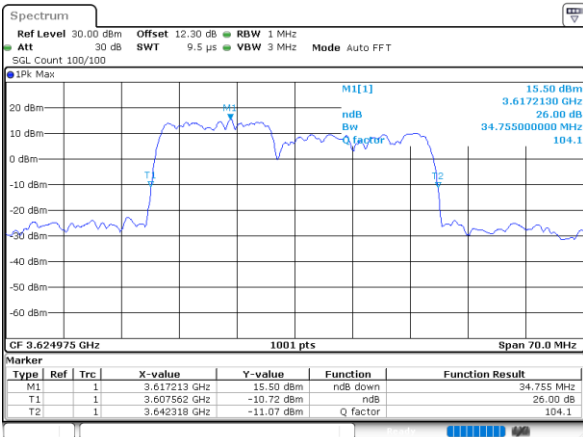
Date: 20.MAY.2022 01:11:14

Middle Channel / 10MHz+20MHz



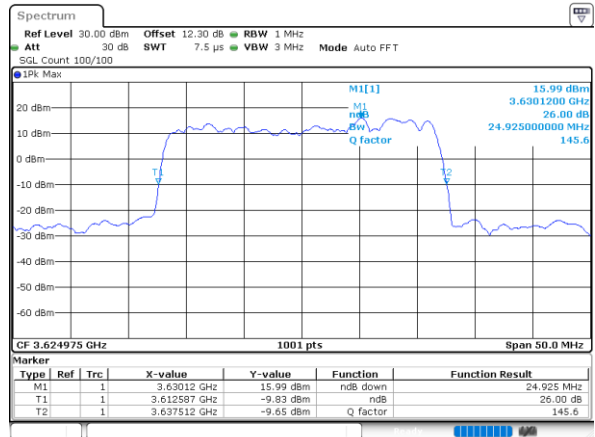
Date: 20.MAY.2022 01:12:10

Middle Channel / 15MHz+20MHz



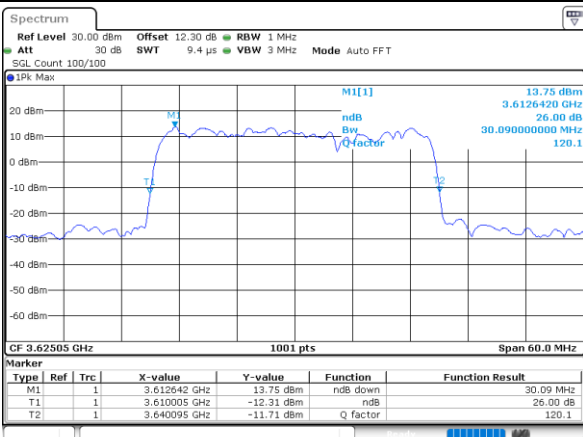
Date: 20.MAY.2022 01:29:07

Middle Channel / 20MHz+5MHz



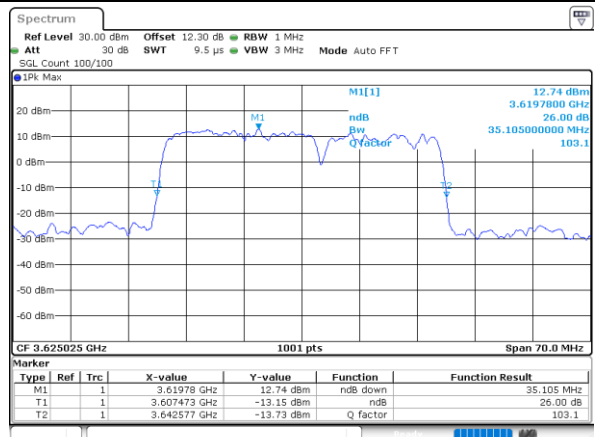
Date: 20.MAY.2022 01:15:42

Middle Channel / 20MHz+10MHz



Date: 20.MAY.2022 01:24:39

Middle Channel / 20MHz+15MHz



Date: 20.MAY.2022 01:13:37

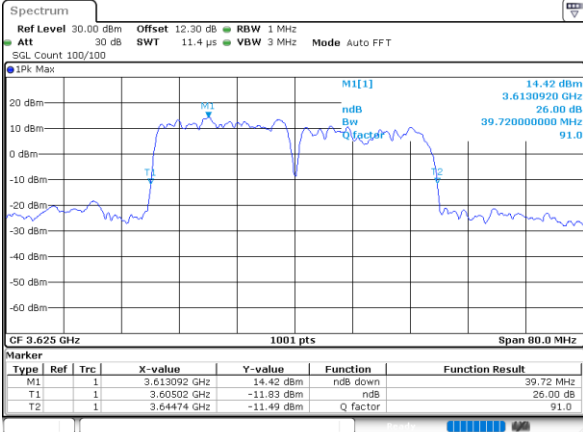


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



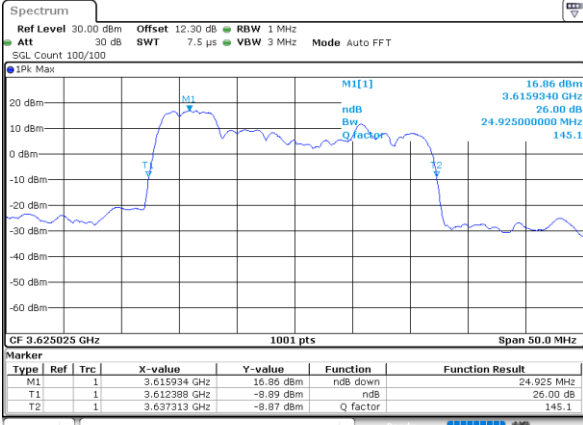
Date: 20_MAY_2022 01:38:19



LTE Band 48C

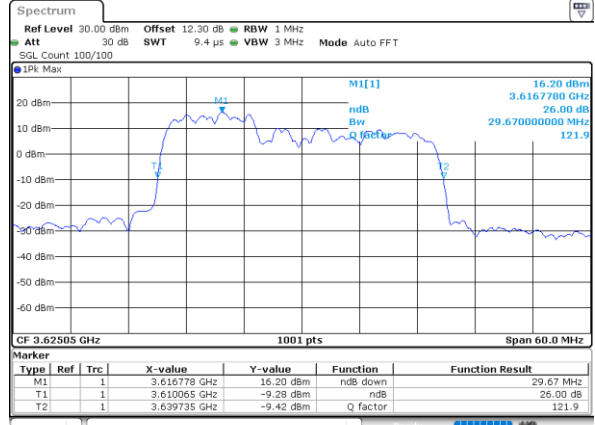
16QAM

Middle Channel / 5MHz+20MHz



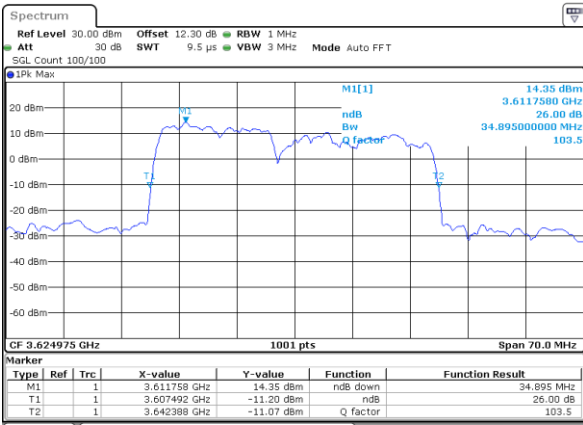
Date: 20.MAY.2022 01:10:41

Middle Channel / 10MHz+20MHz



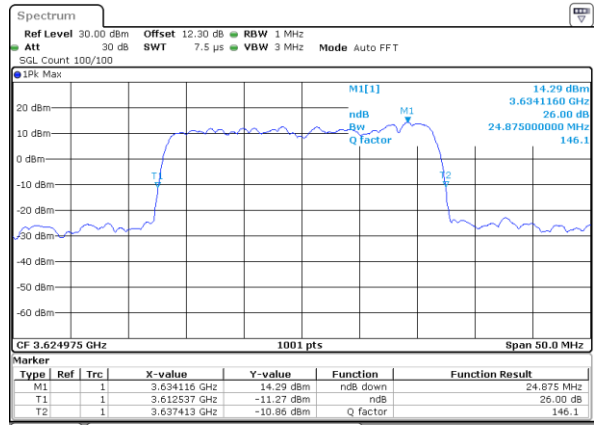
Date: 20.MAY.2022 01:19:37

Middle Channel / 15MHz+20MHz



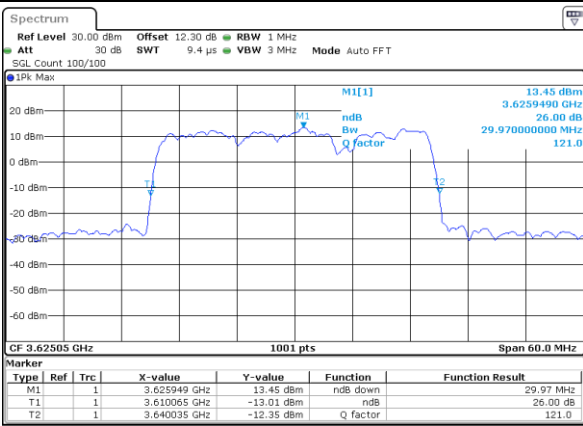
Date: 20.MAY.2022 01:28:34

Middle Channel / 20MHz+5MHz



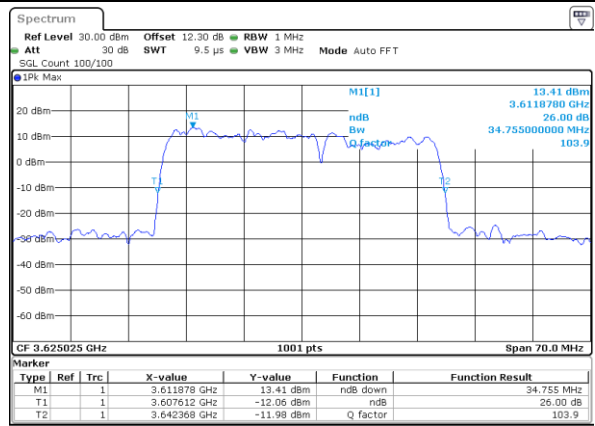
Date: 20.MAY.2022 01:15:09

Middle Channel / 20MHz+10MHz



Date: 20.MAY.2022 01:24:06

Middle Channel / 20MHz+15MHz



Date: 20.MAY.2022 01:33:03

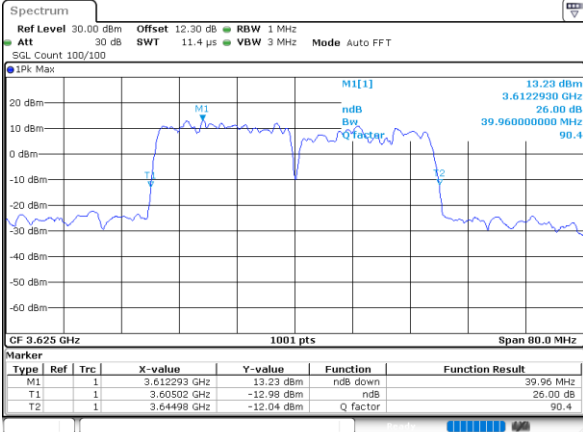


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



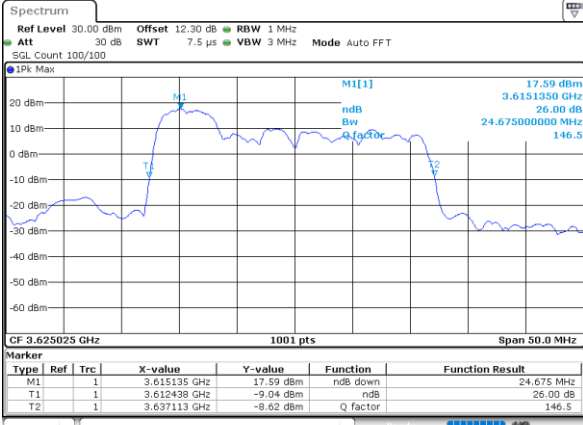
Date: 20_MAY_2022 01:37:17



LTE Band 48C

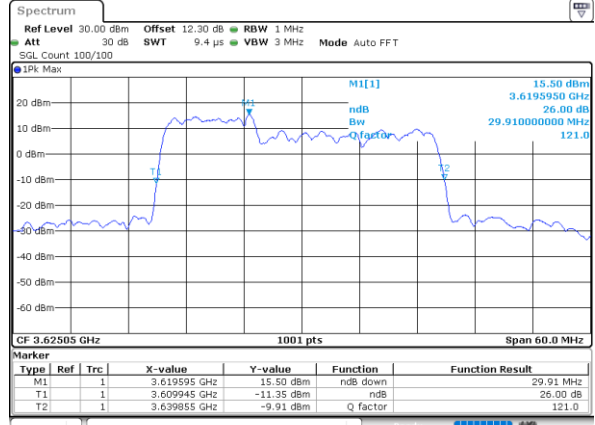
64QAM

Middle Channel / 5MHz+20MHz



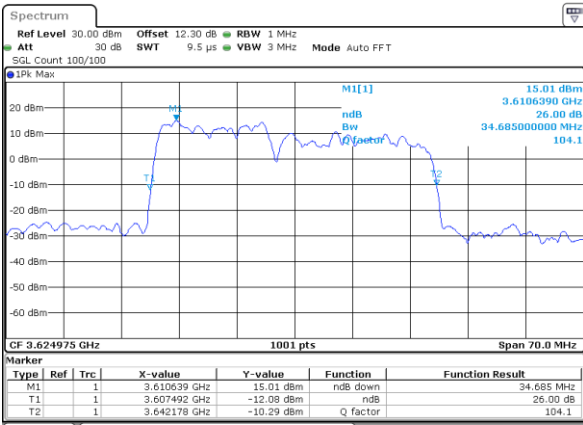
Date: 20_MAY.2022 01:10:08

Middle Channel / 10MHz+20MHz



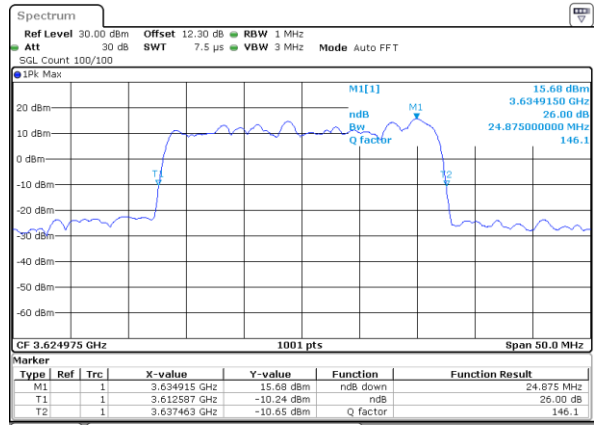
Date: 20_MAY.2022 01:19:04

Middle Channel / 15MHz+20MHz



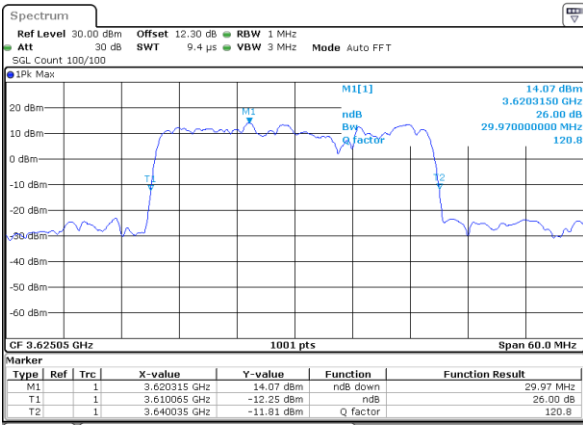
Date: 20_MAY.2022 01:28:01

Middle Channel / 20MHz+5MHz



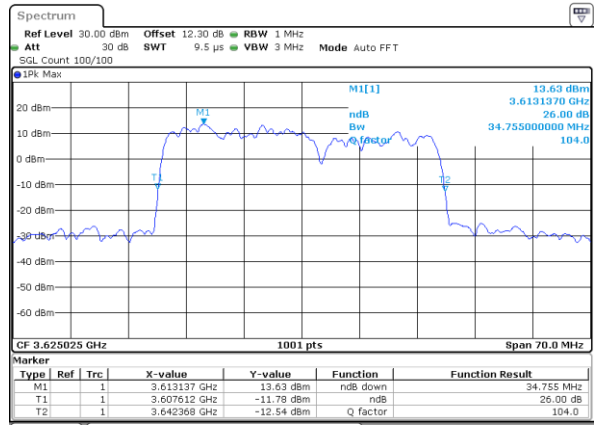
Date: 20_MAY.2022 01:14:36

Middle Channel / 20MHz+10MHz



Date: 20_MAY.2022 01:23:33

Middle Channel / 20MHz+15MHz



Date: 20_MAY.2022 01:32:29

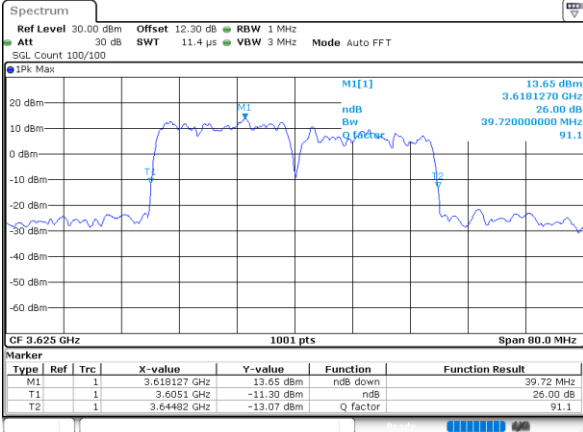


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A



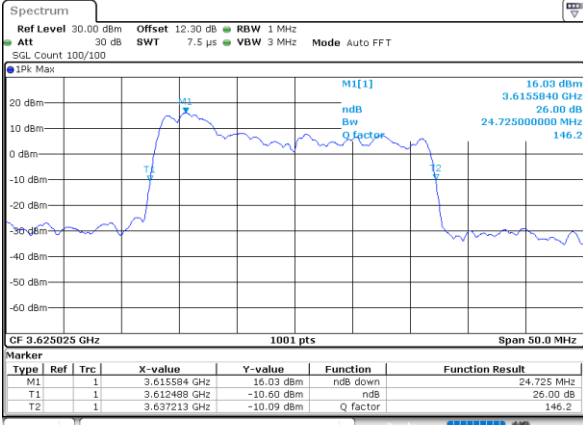
Date: 20_MAY_2022 01:36:46



LTE Band 48C

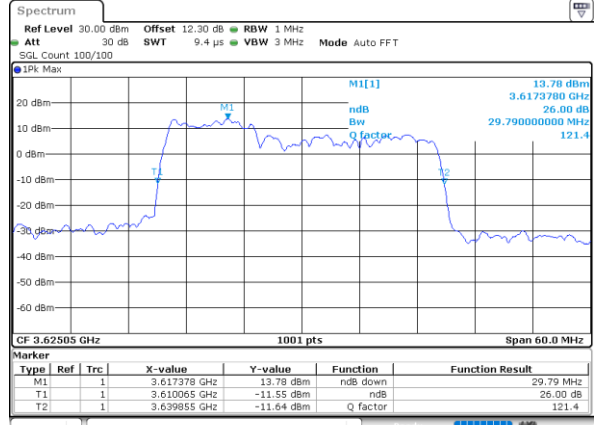
256QAM

Middle Channel / 5MHz+20MHz



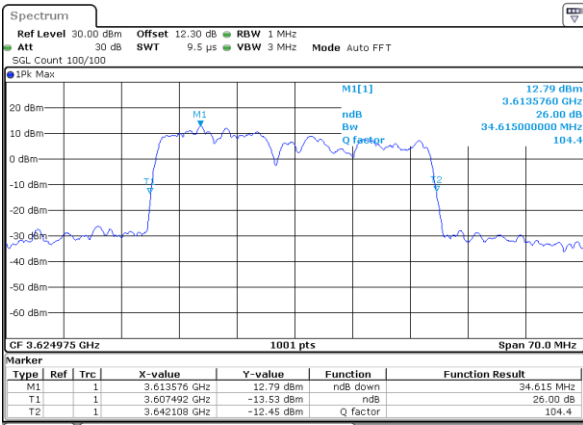
Date: 20_MAY.2022 01:11:47

Middle Channel / 10MHz+20MHz



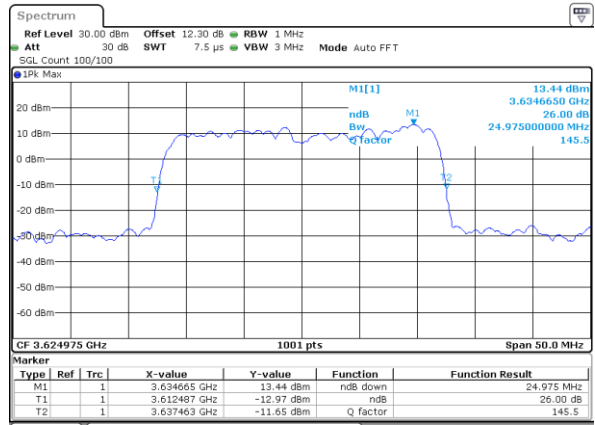
Date: 20_MAY.2022 01:12:43

Middle Channel / 15MHz+20MHz



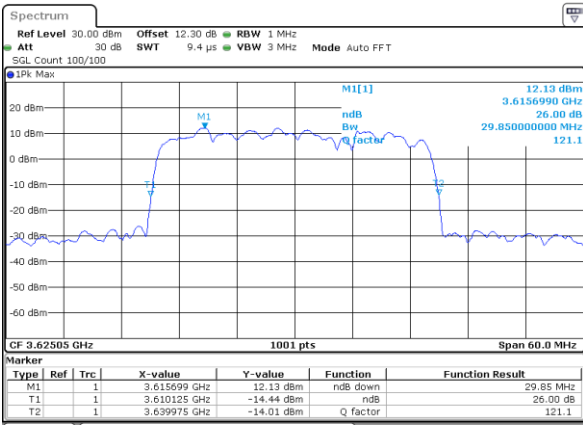
Date: 20_MAY.2022 01:29:40

Middle Channel / 20MHz+5MHz



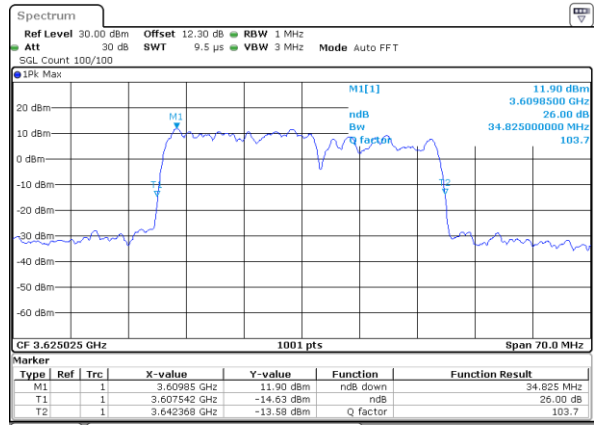
Date: 20_MAY.2022 01:16:15

Middle Channel / 20MHz+10MHz



Date: 20_MAY.2022 01:25:12

Middle Channel / 20MHz+15MHz



Date: 20_MAY.2022 01:13:41

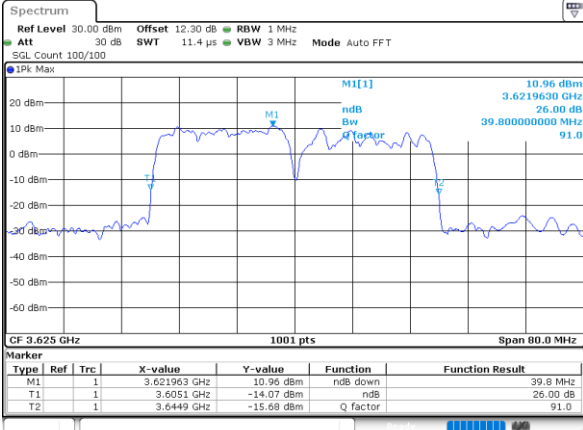


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 20_May_2022 01:37:48



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.08	27.99	32.59	23.23
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	32.80	37.56	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.23	27.81	32.87	23.33
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.81	32.66	37.48	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.18	28.17	32.66	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.73	37.48	-

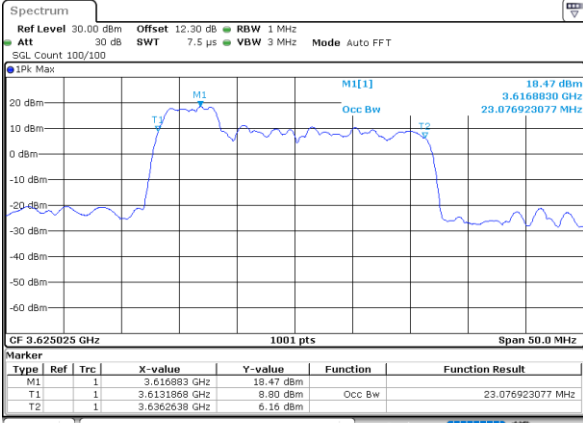
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.43	27.63	32.66	23.23
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.57	32.87	37.56	-



LTE Band 48C

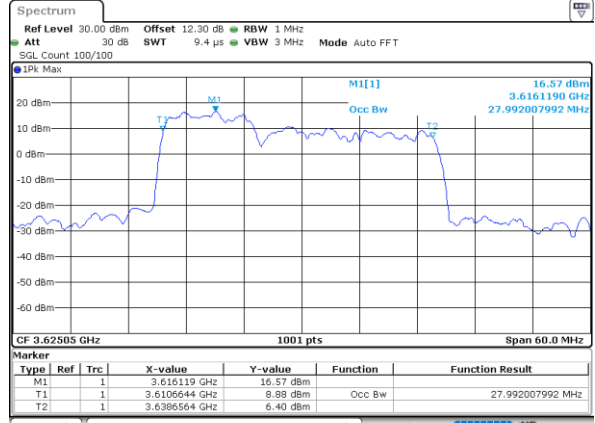
QPSK

Middle Channel / 5MHz+20MHz



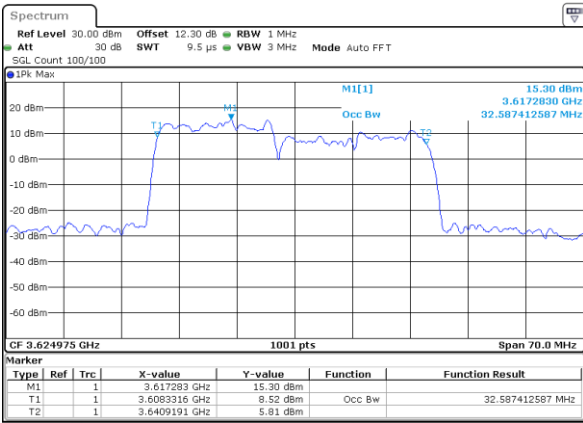
Date: 20.MAY.2022 01:07:56

Middle Channel / 10MHz+20MHz



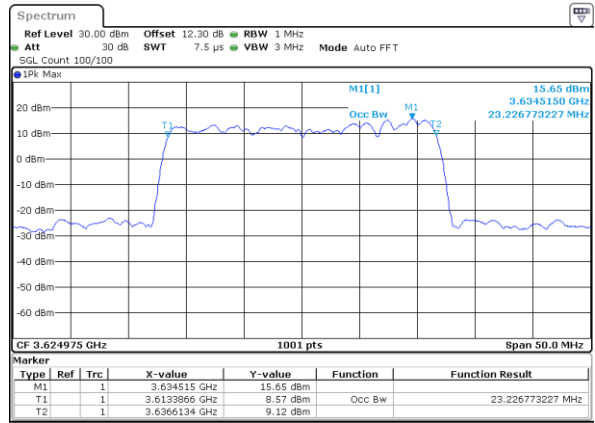
Date: 20.MAY.2022 01:16:52

Middle Channel / 15MHz+20MHz



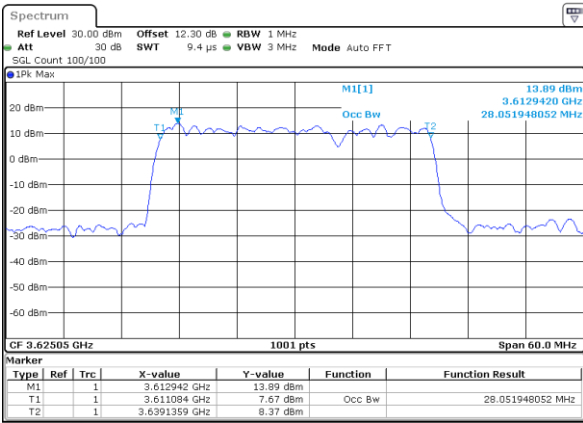
Date: 20.MAY.2022 01:25:49

Middle Channel / 20MHz+5MHz



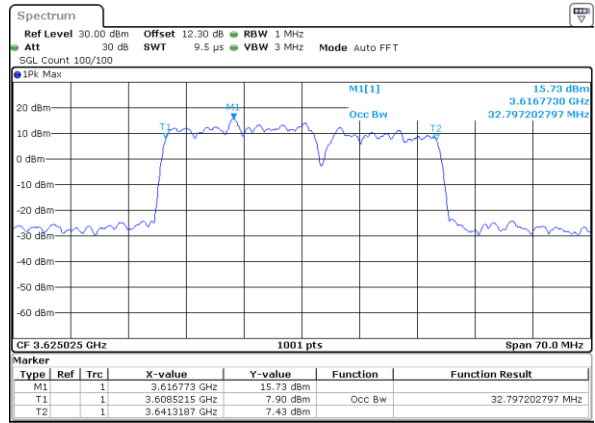
Date: 20.MAY.2022 01:12:24

Middle Channel / 20MHz+10MHz



Date: 20.MAY.2022 01:21:20

Middle Channel / 20MHz+15MHz



Date: 20.MAY.2022 01:30:17

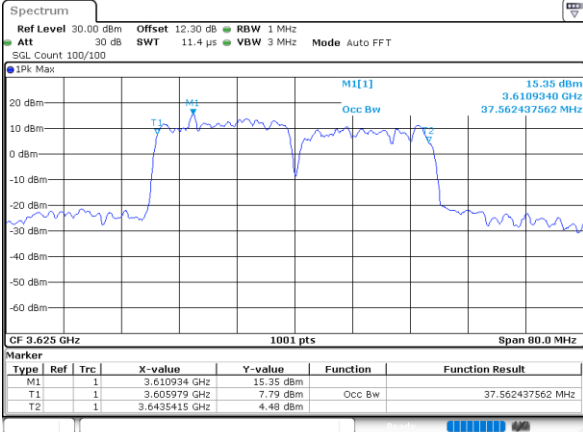


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



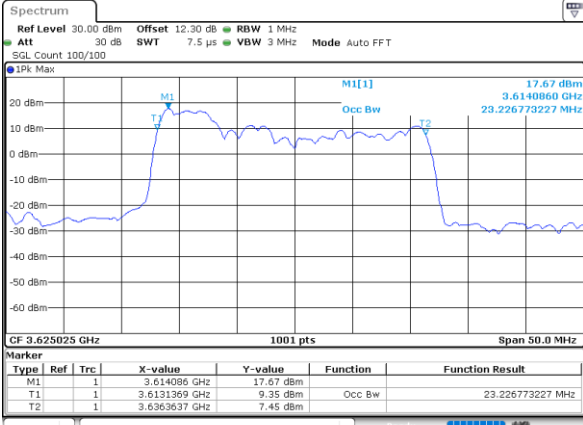
Date: 20_MAY_2022 01:34:42



LTE Band 48C

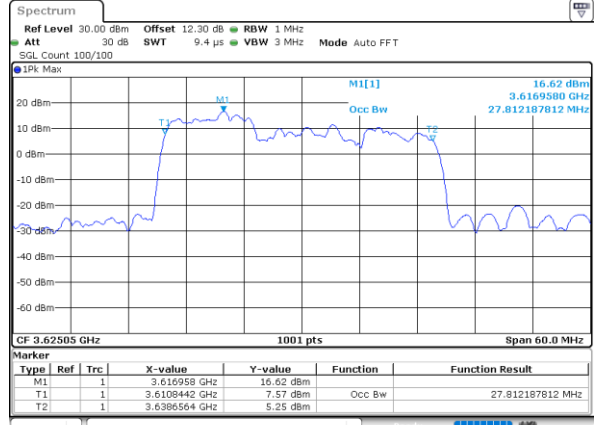
16QAM

Middle Channel / 5MHz+20MHz



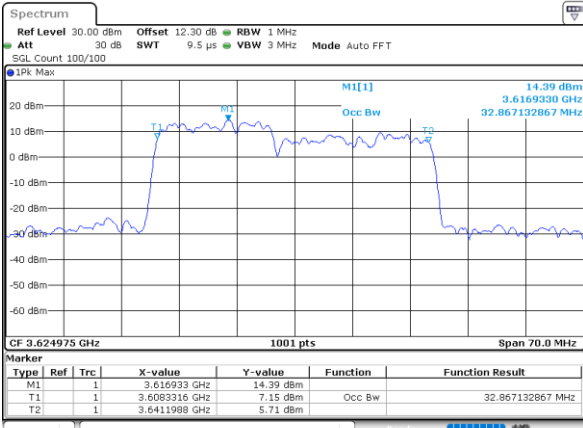
Date: 20.MAY.2022 01:08:29

Middle Channel / 10MHz+20MHz



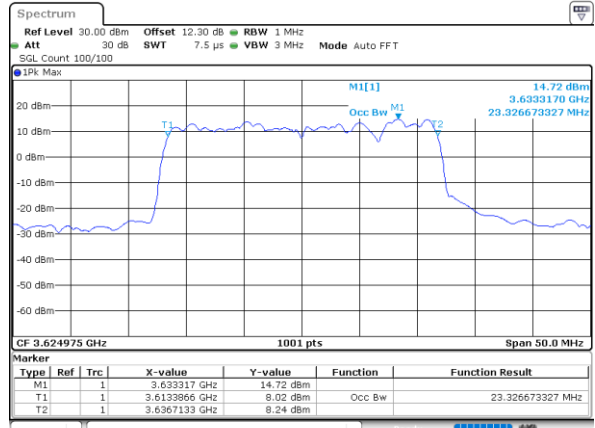
Date: 20.MAY.2022 01:17:25

Middle Channel / 15MHz+20MHz



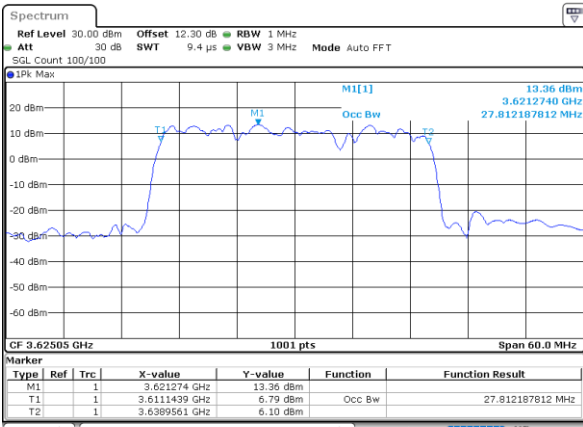
Date: 20.MAY.2022 01:26:22

Middle Channel / 20MHz+5MHz



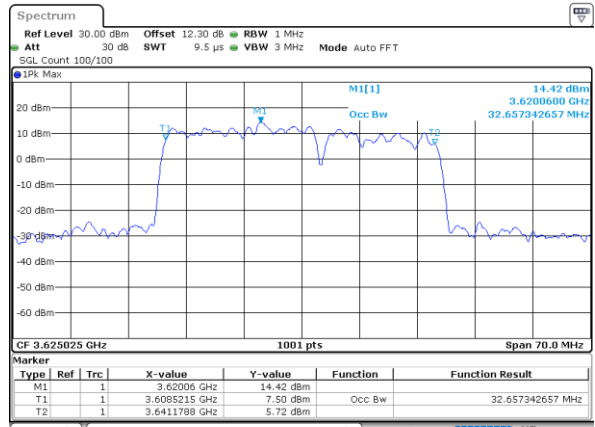
Date: 20.MAY.2022 01:12:57

Middle Channel / 20MHz+10MHz



Date: 20.MAY.2022 01:21:53

Middle Channel / 20MHz+15MHz



Date: 20.MAY.2022 01:30:50

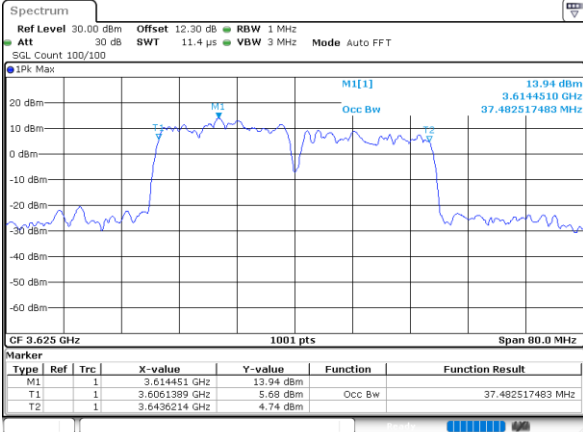


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



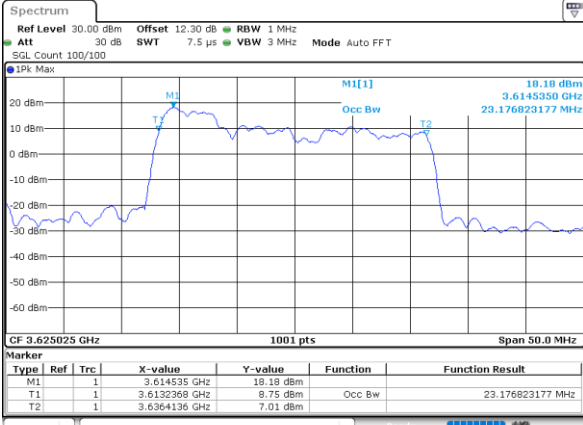
Date: 20_MAY_2022 01:35:13



LTE Band 48C

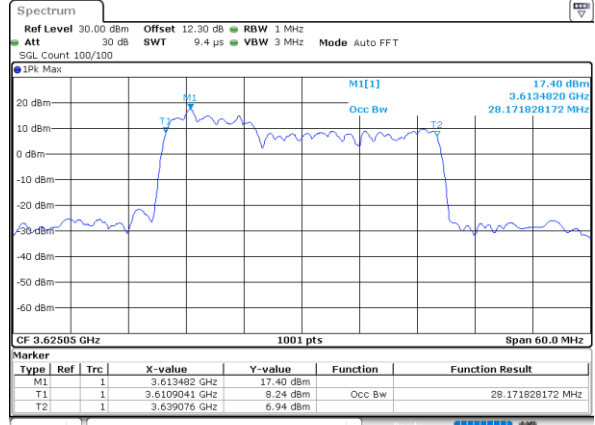
64QAM

Middle Channel / 5MHz+20MHz



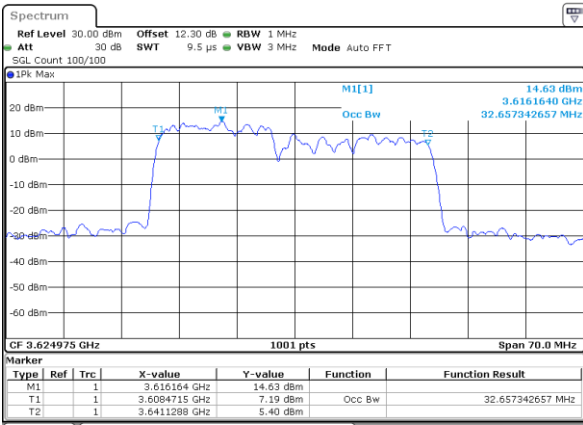
Date: 20.MAY.2022 01:09:02

Middle Channel / 10MHz+20MHz



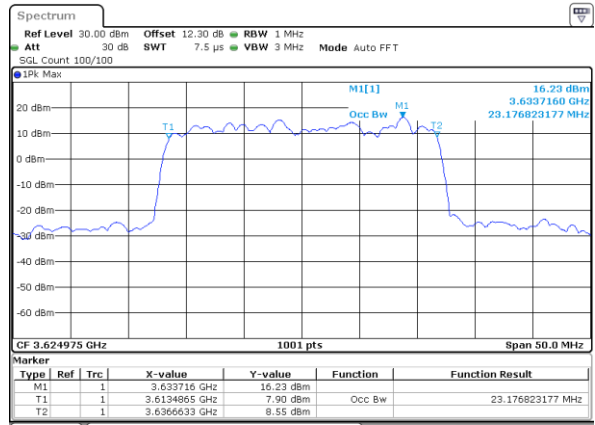
Date: 20.MAY.2022 01:17:58

Middle Channel / 15MHz+20MHz



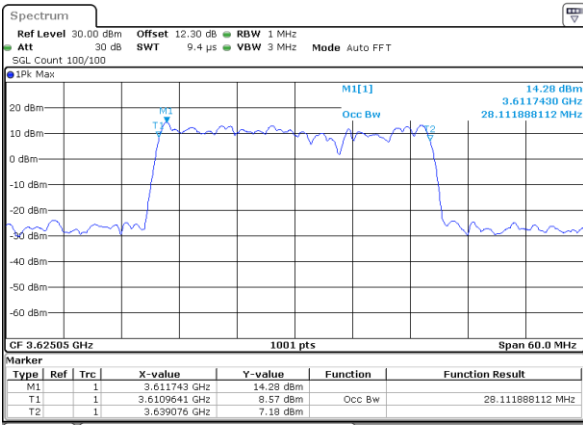
Date: 20.MAY.2022 01:26:55

Middle Channel / 20MHz+5MHz



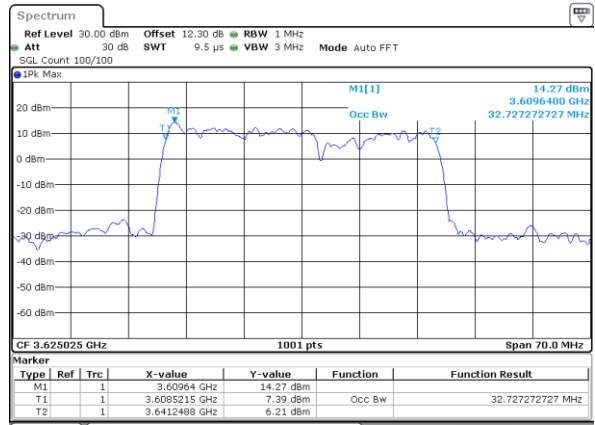
Date: 20.MAY.2022 01:13:30

Middle Channel / 20MHz+10MHz



Date: 20.MAY.2022 01:22:27

Middle Channel / 20MHz+15MHz



Date: 20.MAY.2022 01:31:23

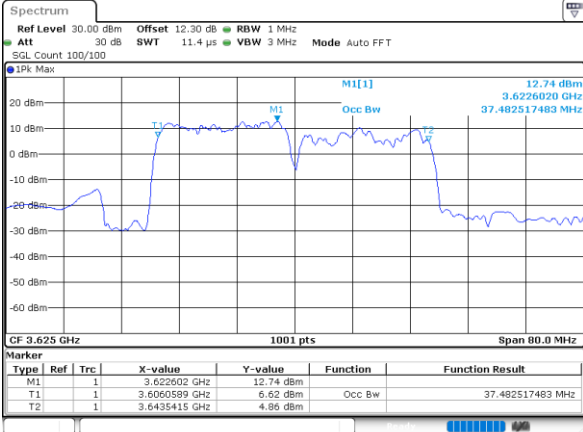


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A



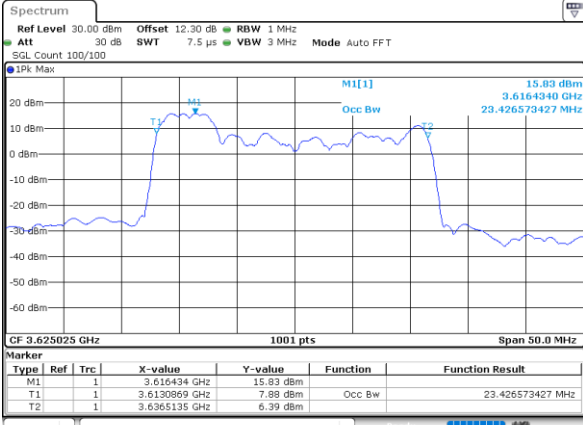
Date: 20_MAY_2022 01:35:44



LTE Band 48C

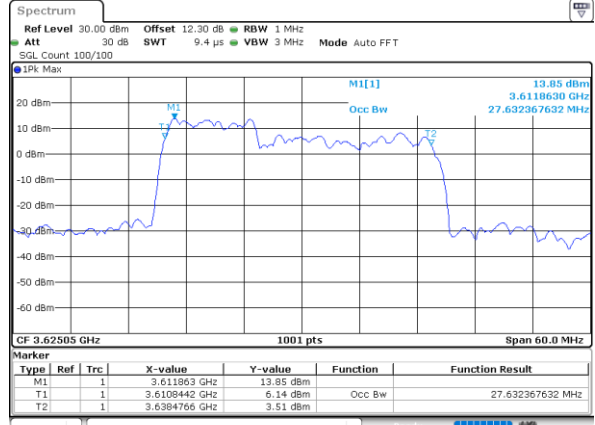
256QAM

Middle Channel / 5MHz+20MHz



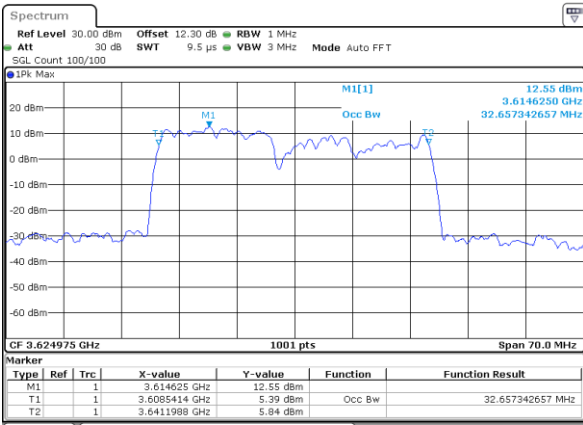
Date: 20_MAY.2022 01:09:35

Middle Channel / 10MHz+20MHz



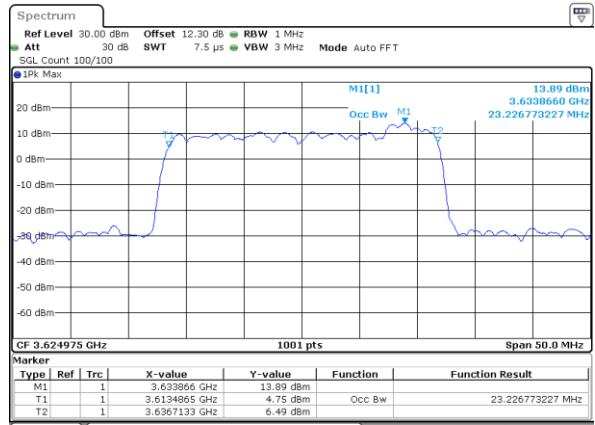
Date: 20_MAY.2022 01:18:31

Middle Channel / 15MHz+20MHz



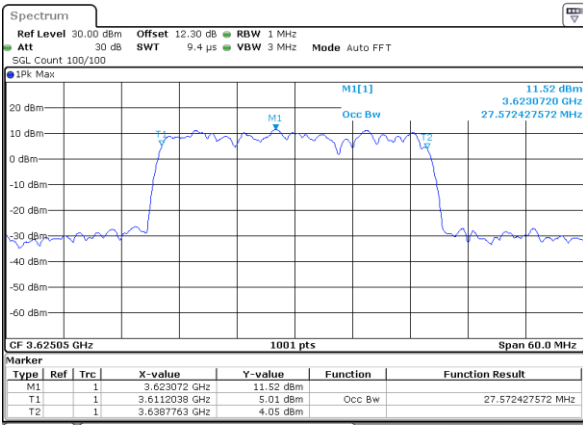
Date: 20_MAY.2022 01:27:28

Middle Channel / 20MHz+5MHz



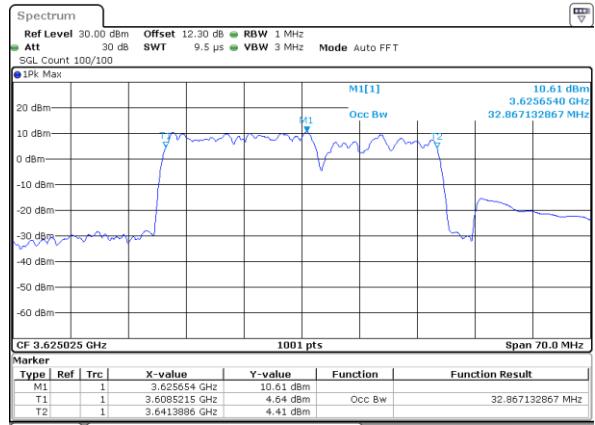
Date: 20_MAY.2022 01:14:03

Middle Channel / 20MHz+10MHz



Date: 20_MAY.2022 01:23:00

Middle Channel / 20MHz+15MHz



Date: 20_MAY.2022 01:31:56

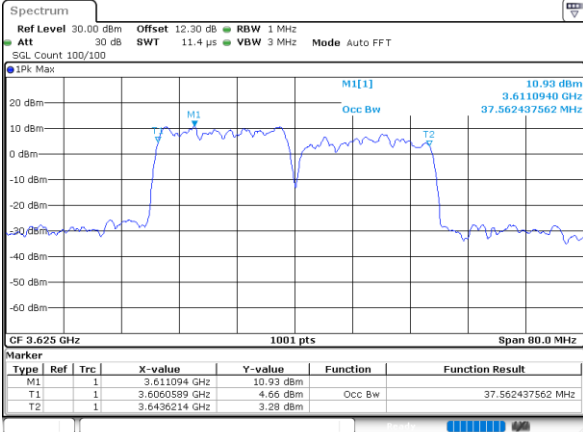


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

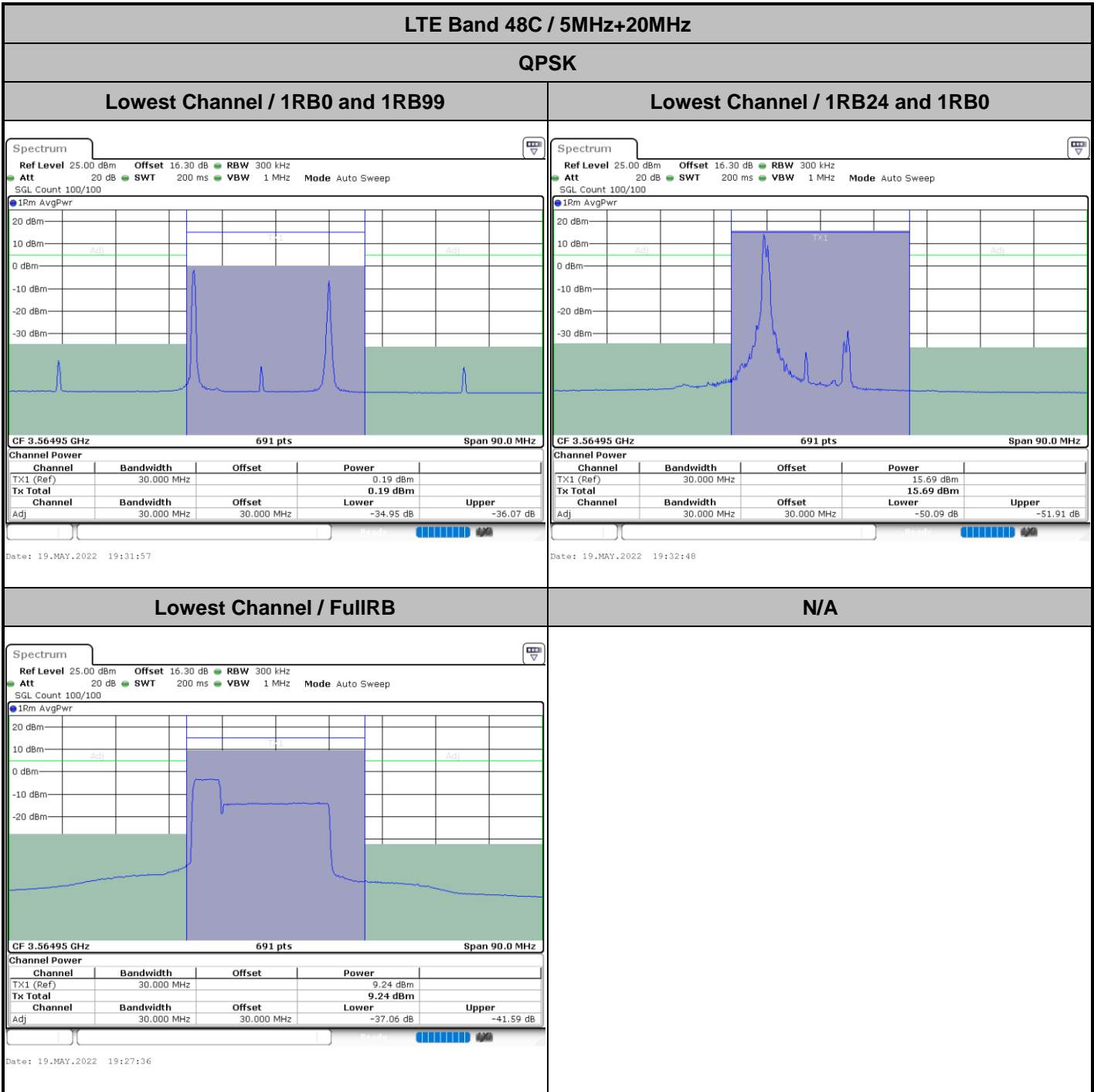
N/A



Date: 20_MAY_2022 01:36:15



ACLR



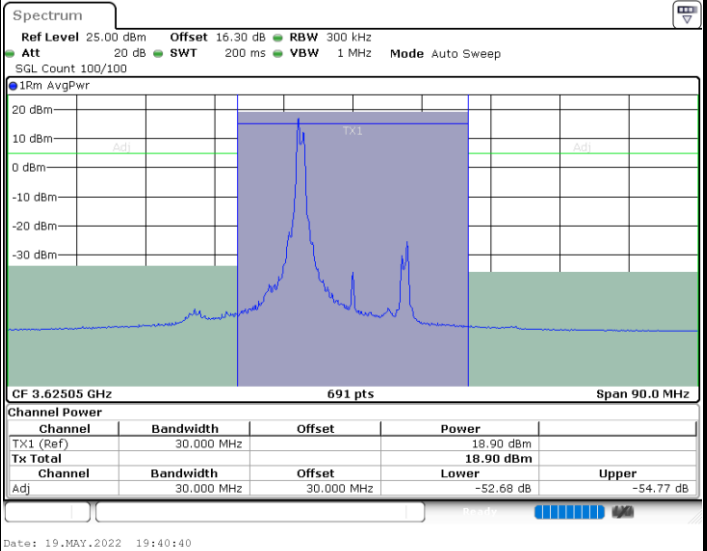
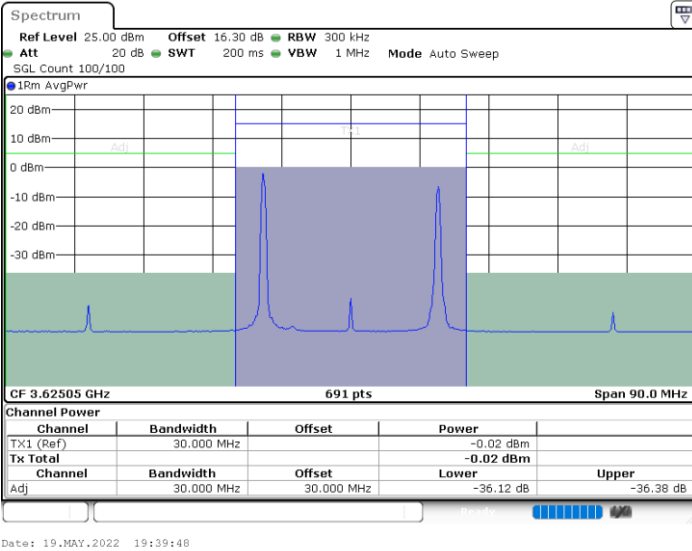


LTE Band 48C / 5MHz+20MHz

QPSK

Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB24 and 1RB0



Middle Channel / FullIRB

N/A

