

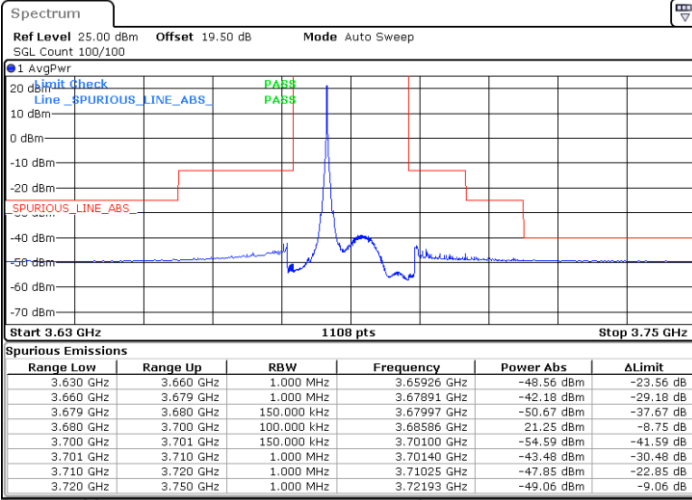


LTE Band 48 / 15MHz

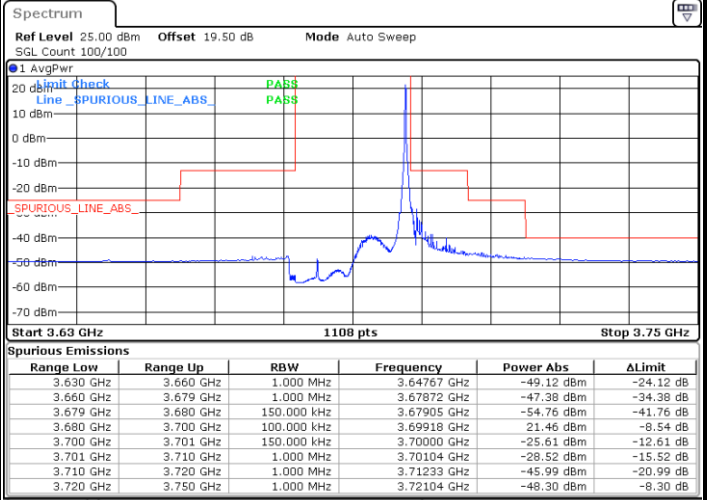
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



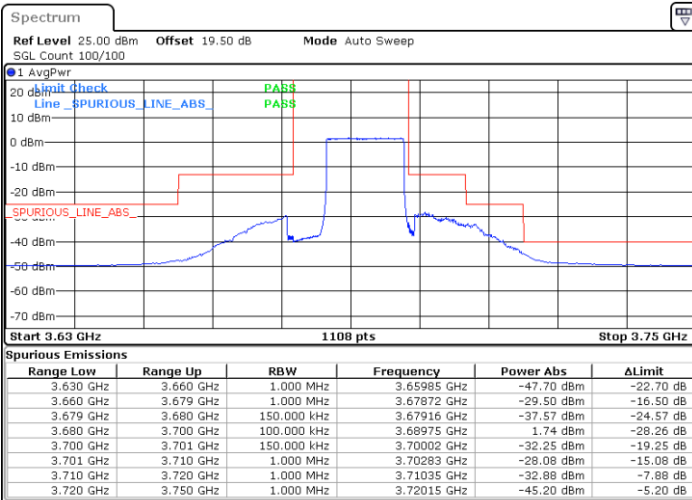
Date: 24.JAN.2024 22:15:29



Date: 24.JAN.2024 22:21:19

Highest Channel / FullRB

N/A



Date: 24.JAN.2024 22:27:09

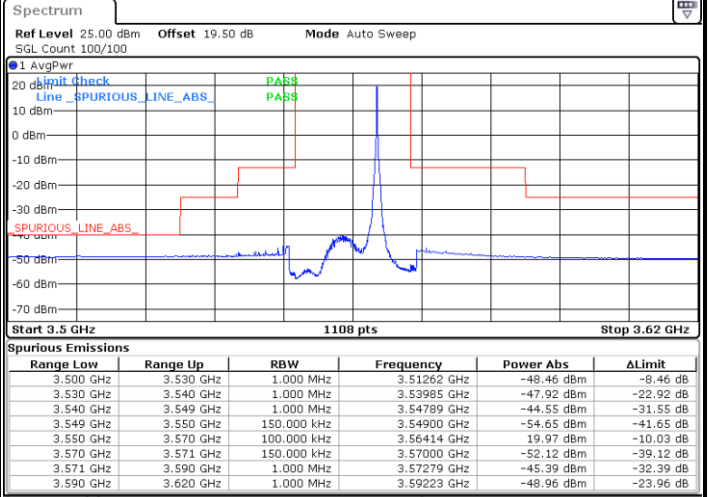
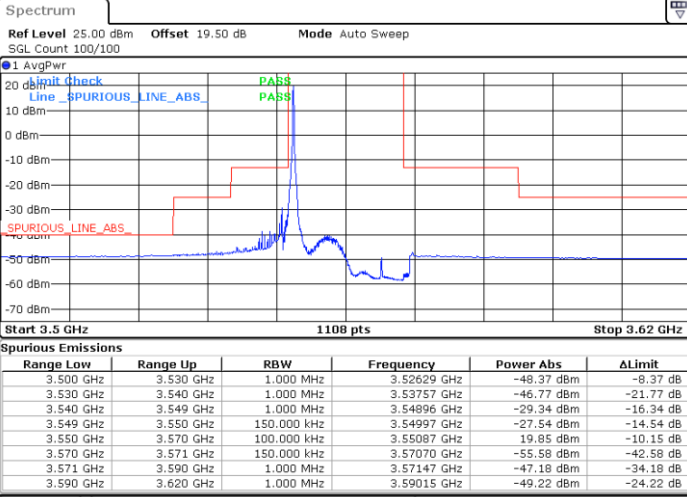


LTE Band 48 / 15MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

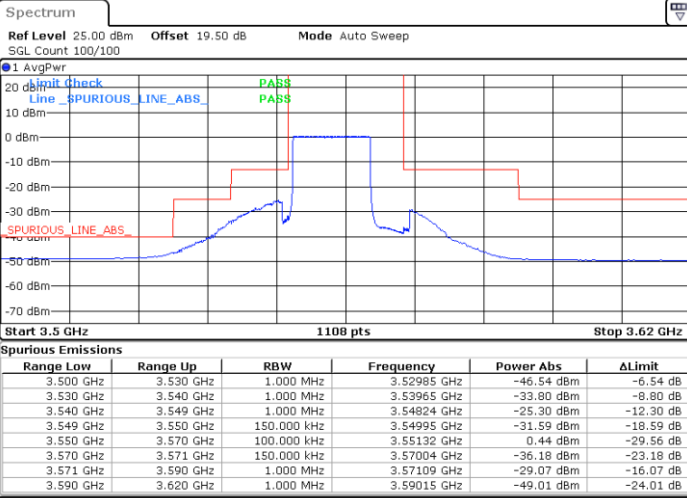


Date: 24.JAN.2024 21:38:38

Date: 24.JAN.2024 21:48:24

Lowest Channel / FullIRB

N/A



Date: 24.JAN.2024 21:50:17

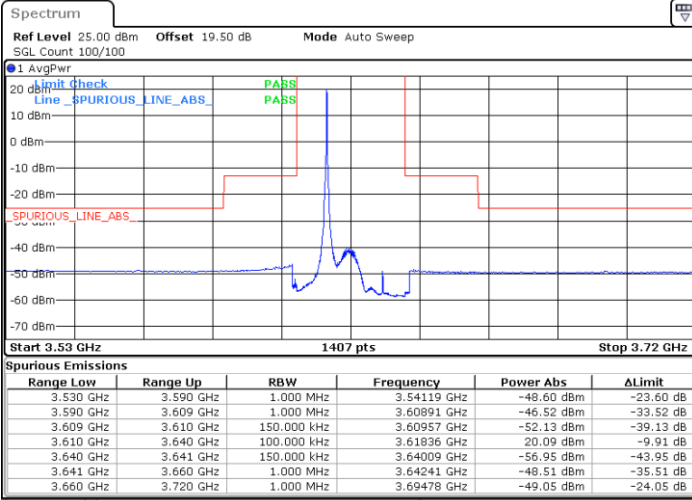


LTE Band 48 / 15MHz

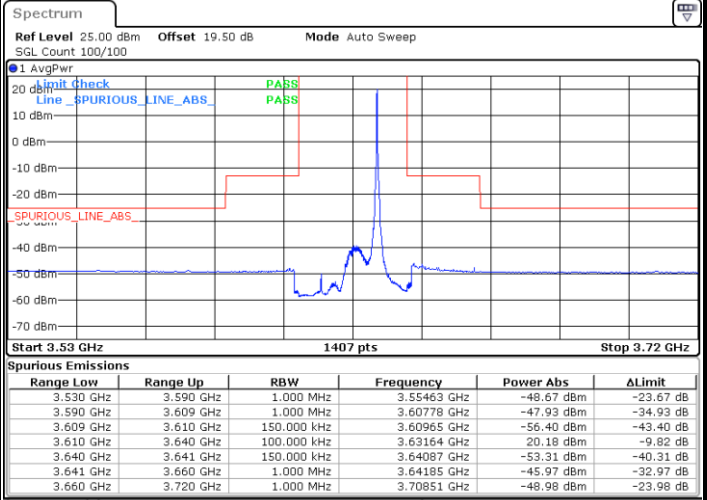
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



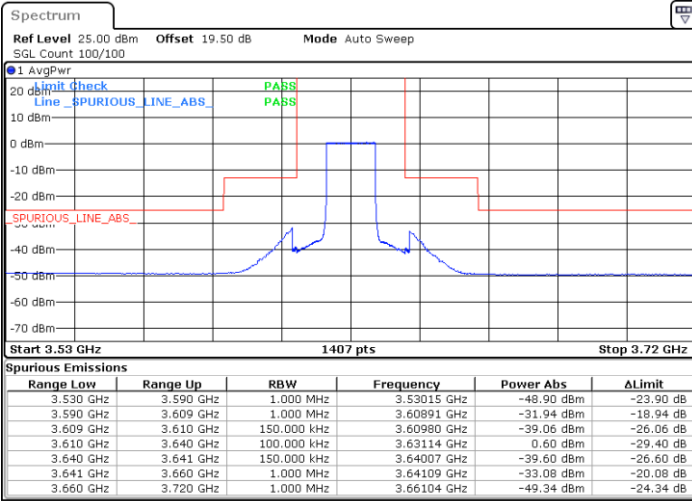
Date: 24.JAN.2024 22:11:38



Date: 24.JAN.2024 22:01:55

Middle Channel / FullIRB

N/A



Date: 24.JAN.2024 22:00:02

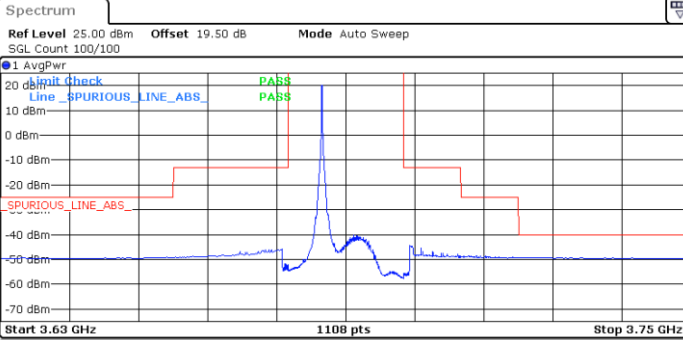


LTE Band 48 / 15MHz

64QAM

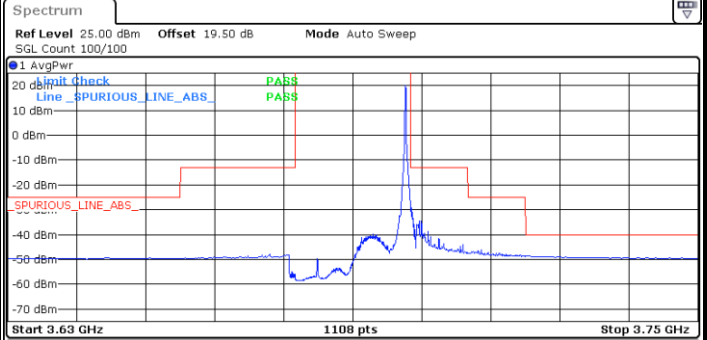
Highest Channel / 1RB0

Highest Channel / 1RBmax



Start 3.63 GHz 1108 pts Stop 3.75 GHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65896 GHz	-48.93 dBm	-23.93 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67891 GHz	-45.82 dBm	-32.82 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67945 GHz	-51.62 dBm	-38.62 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68586 GHz	20.09 dBm	-9.91 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70100 GHz	-54.96 dBm	-41.96 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70113 GHz	-44.40 dBm	-31.40 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71124 GHz	-48.45 dBm	-23.45 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72163 GHz	-49.21 dBm	-9.21 dB



Start 3.63 GHz 1108 pts Stop 3.75 GHz

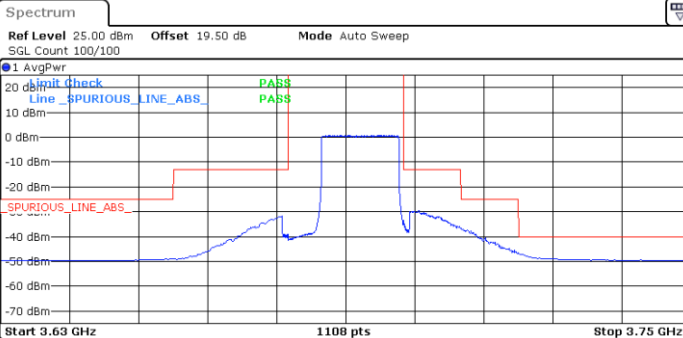
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.64708 GHz	-49.24 dBm	-24.24 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67552 GHz	-47.95 dBm	-34.95 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67944 GHz	-55.01 dBm	-42.01 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69918 GHz	20.17 dBm	-9.83 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70001 GHz	-26.56 dBm	-13.56 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70158 GHz	-34.44 dBm	-21.44 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71233 GHz	-46.03 dBm	-21.03 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-48.54 dBm	-8.54 dB

Date: 24.JAN.2024 22:13:31

Date: 24.JAN.2024 22:23:17

Highest Channel / FullRB

N/A



Start 3.63 GHz 1108 pts Stop 3.75 GHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65896 GHz	-49.06 dBm	-24.06 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67891 GHz	-31.83 dBm	-18.83 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67998 GHz	-39.04 dBm	-26.04 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69369 GHz	0.71 dBm	-29.29 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70001 GHz	-33.57 dBm	-20.57 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70256 GHz	-29.50 dBm	-16.50 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-36.60 dBm	-11.60 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-47.10 dBm	-7.10 dB

Date: 24.JAN.2024 22:25:11

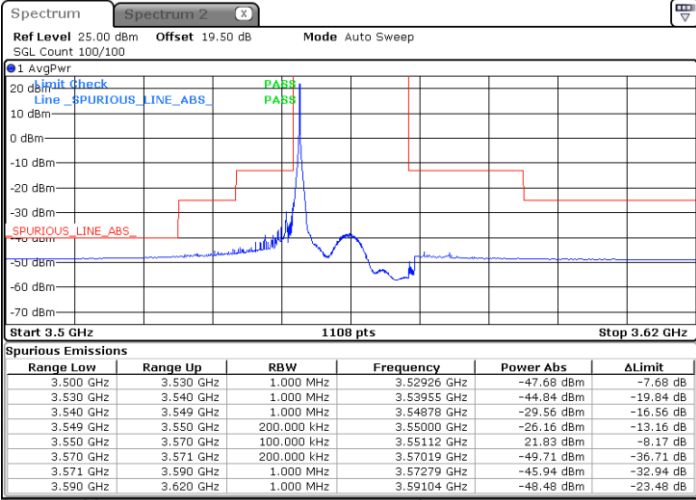


LTE Band 48 / 20MHz

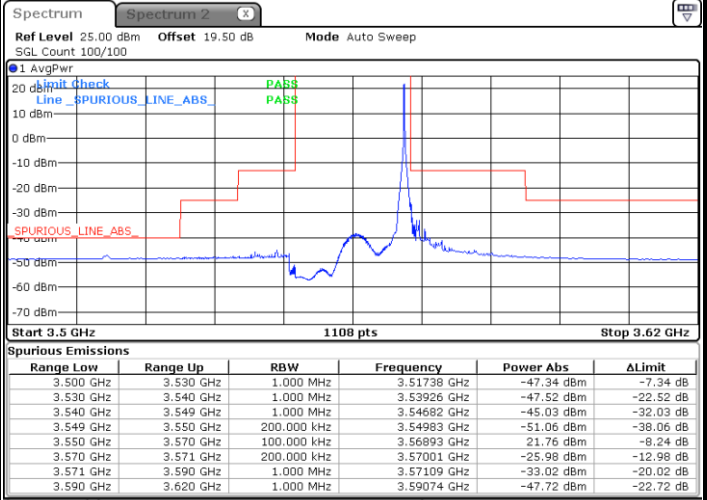
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



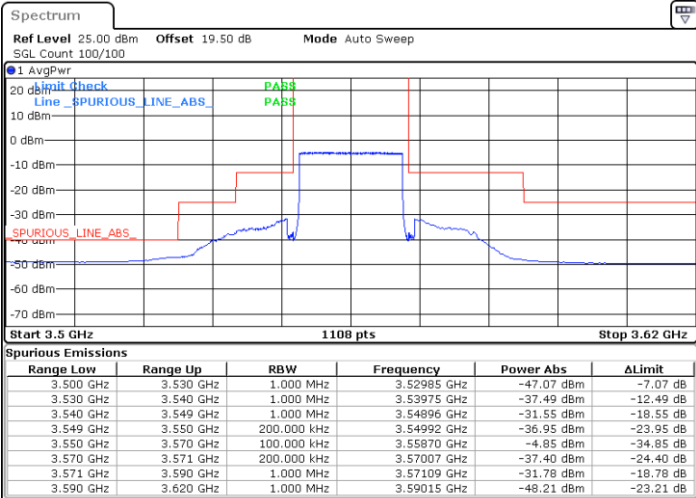
Date: 29.JAN.2024 19:53:53



Date: 29.JAN.2024 20:01:09

Lowest Channel / FullIRB

N/A



Date: 22.FEB.2024 20:37:30

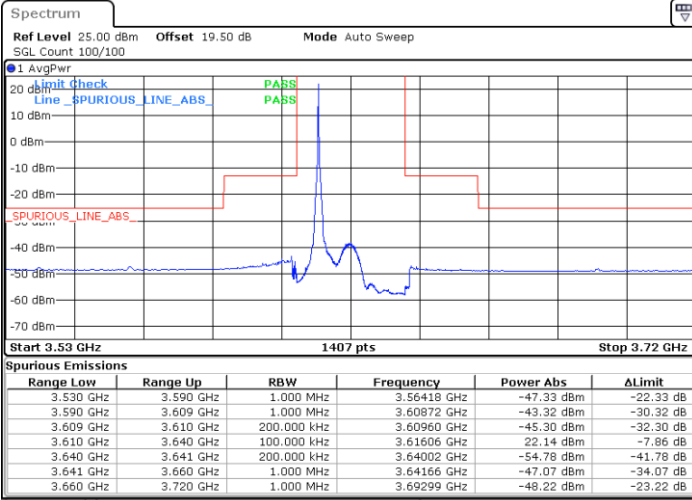


LTE Band 48 / 20MHz

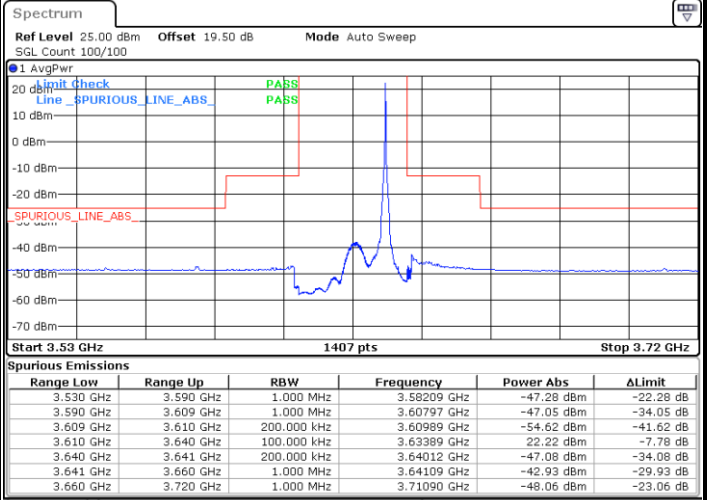
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



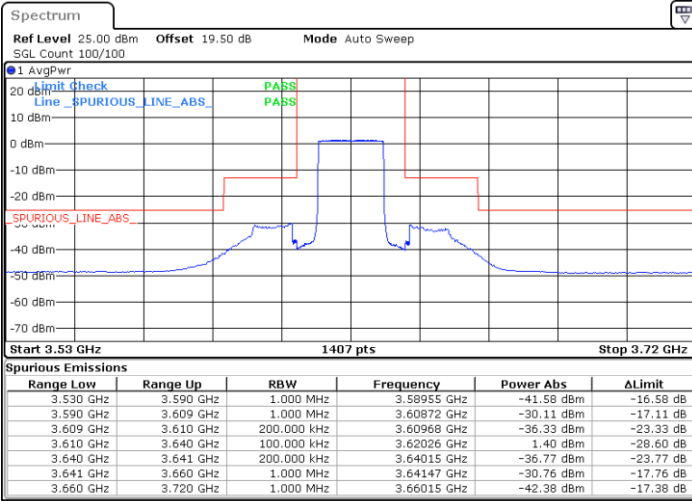
Date: 29.JAN.2024 20:54:43



Date: 29.JAN.2024 20:46:08

Middle Channel / FullIRB

N/A



Date: 29.JAN.2024 20:44:25

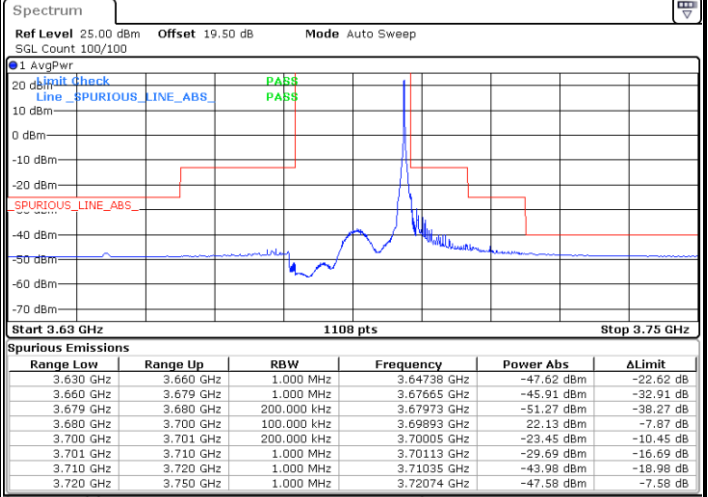
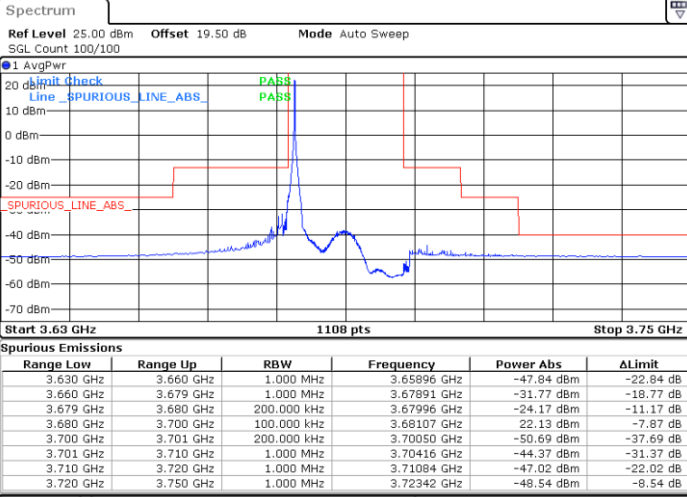


LTE Band 48 / 20MHz

QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

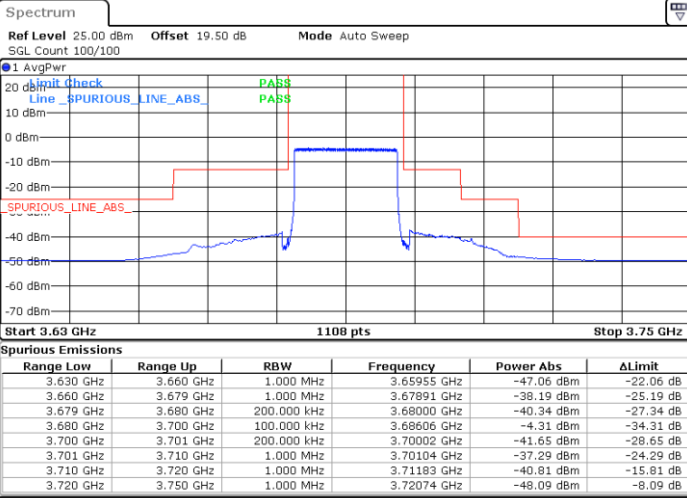


Date: 29.JAN.2024 21:08:43

Date: 29.JAN.2024 21:17:22

Highest Channel / FullRB

N/A



Date: 22.FEB.2024 20:35:25

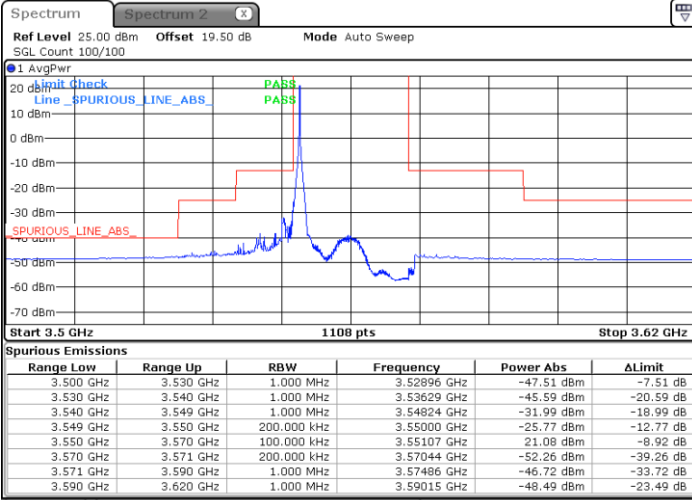


LTE Band 48 / 20MHz

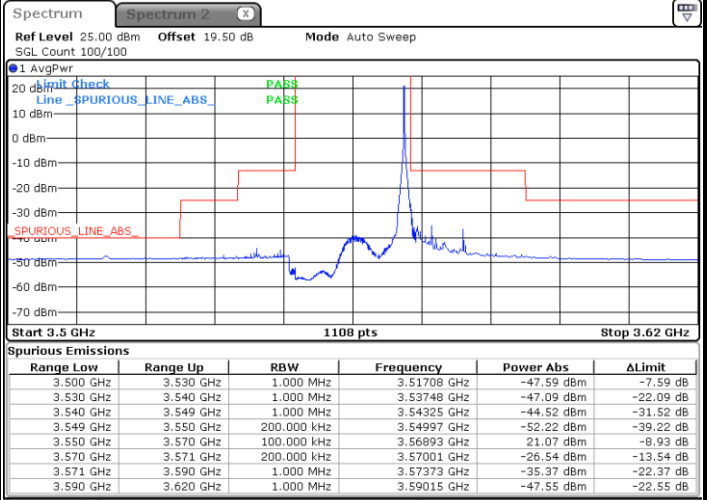
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



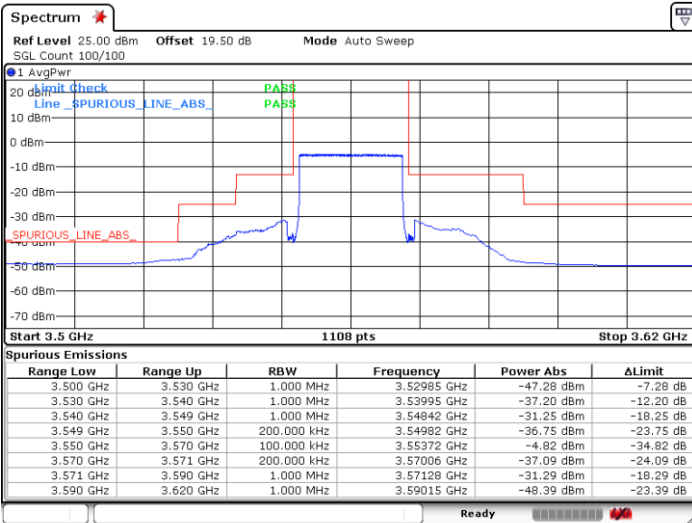
Date: 29. JAN. 2024 19:55:09



Date: 29. JAN. 2024 19:58:56

Lowest Channel / FullIRB

N/A



Date: 22. FEB. 2024 20:28:31

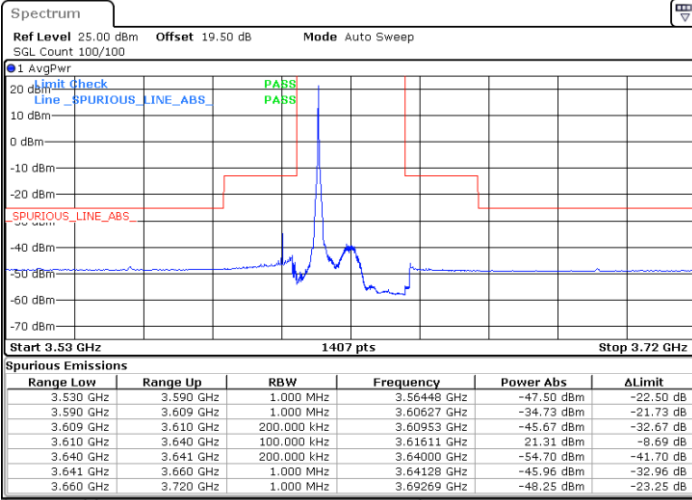


LTE Band 48 / 20MHz

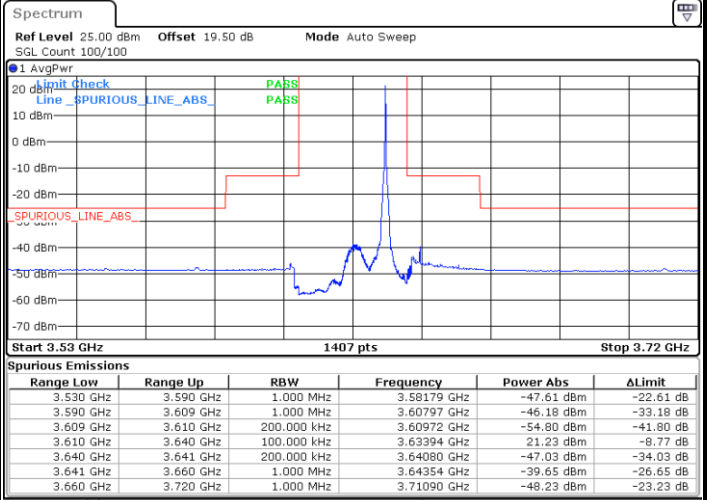
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



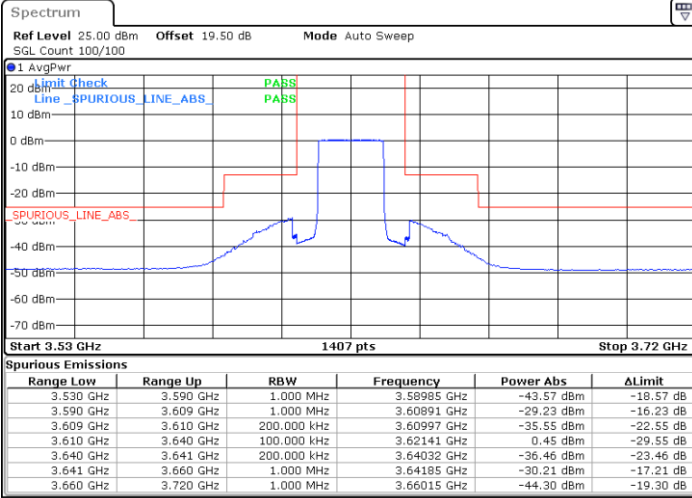
Date: 29.JAN.2024 20:53:00



Date: 29.JAN.2024 20:47:51

Middle Channel / FullRB

N/A



Date: 29.JAN.2024 20:42:42

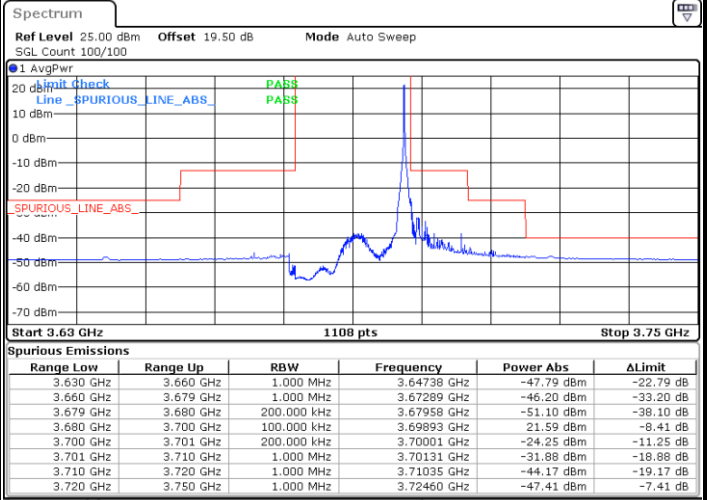
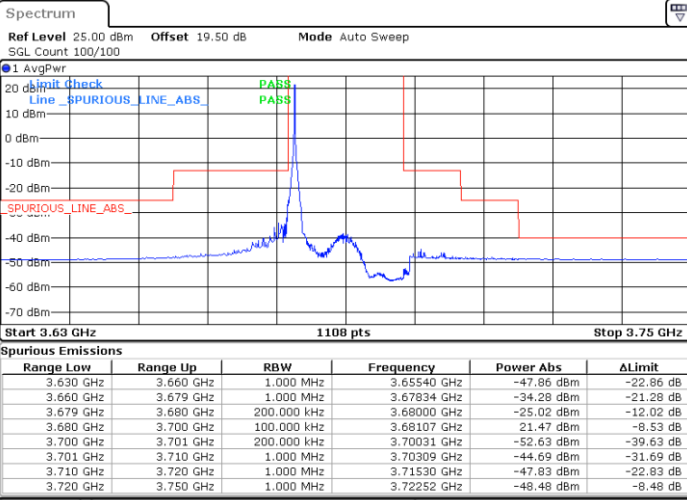


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

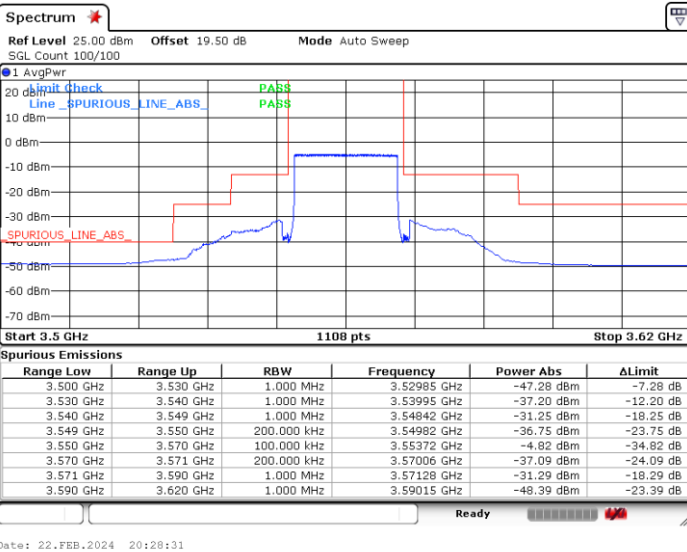


Date: 29.JAN.2024 21:10:27

Date: 29.JAN.2024 21:15:38

Highest Channel / FullRB

N/A



Date: 22.FEB.2024 20:28:31

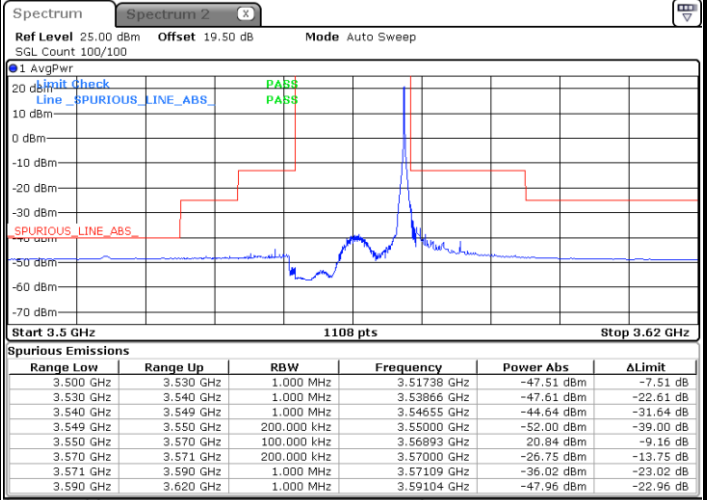
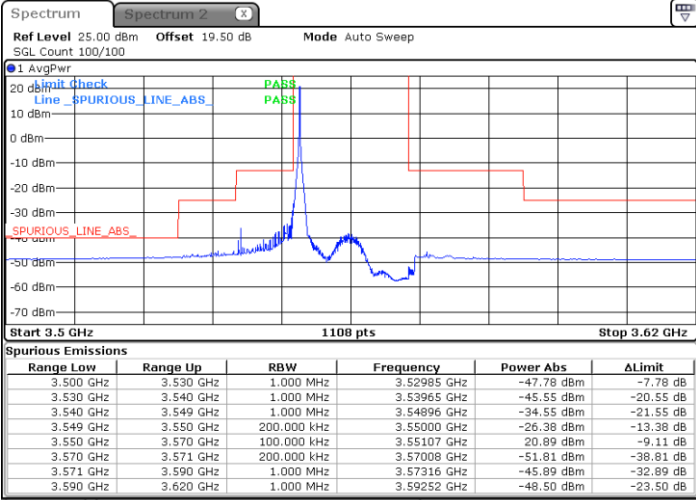


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

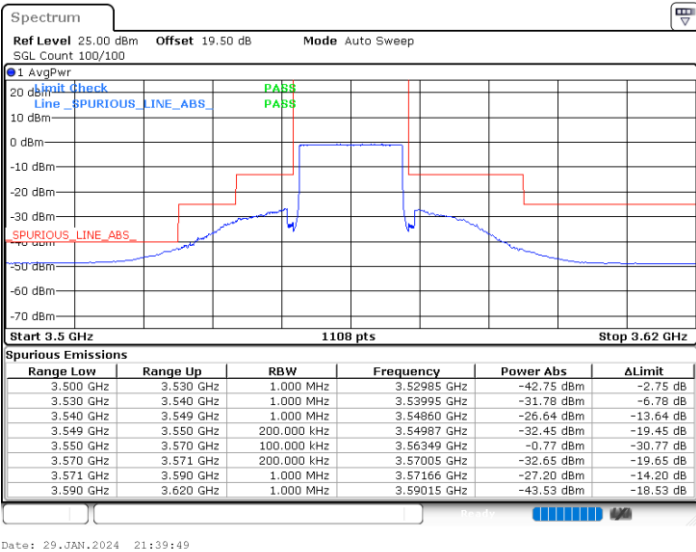


Date: 29.JAN.2024 19:56:25

Date: 29.JAN.2024 19:57:41

Lowest Channel / FullIRB

N/A



Date: 29.JAN.2024 21:39:49

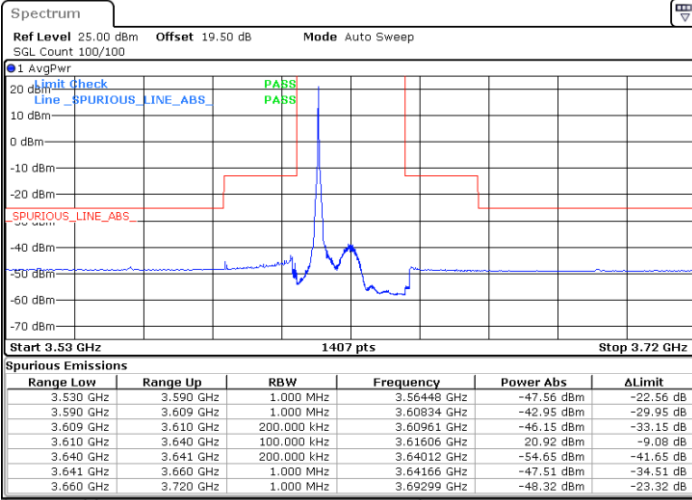


LTE Band 48 / 20MHz

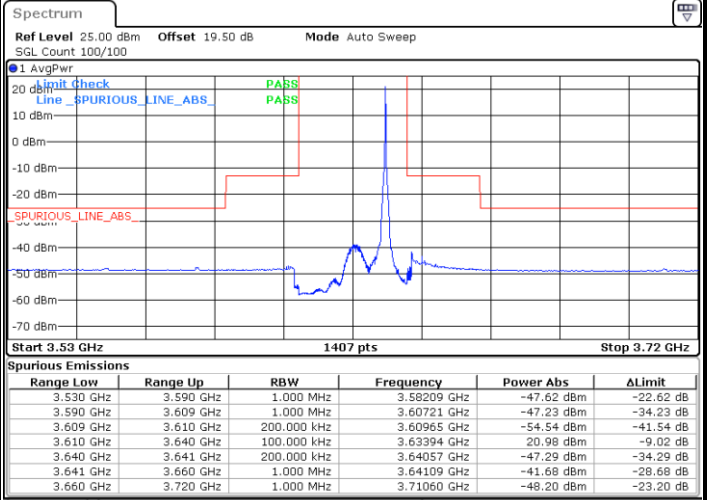
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



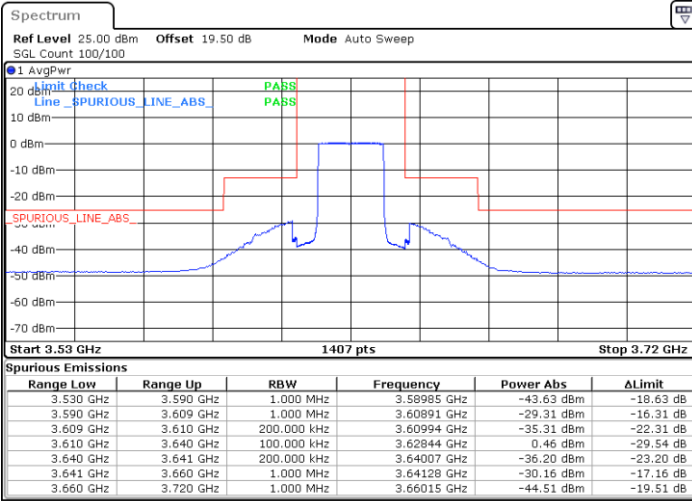
Date: 29.JAN.2024 20:51:17



Date: 29.JAN.2024 20:49:34

Middle Channel / FullIRB

N/A



Date: 29.JAN.2024 20:40:59

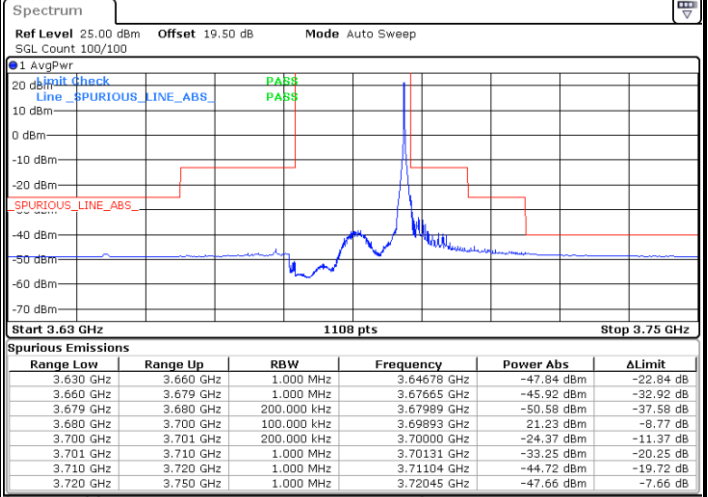
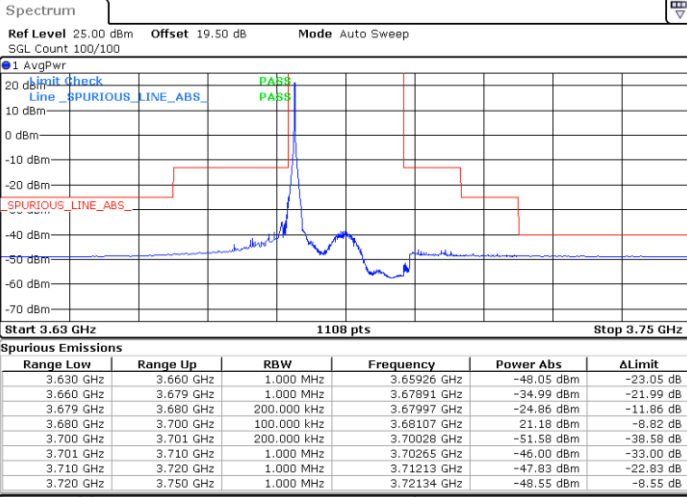


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

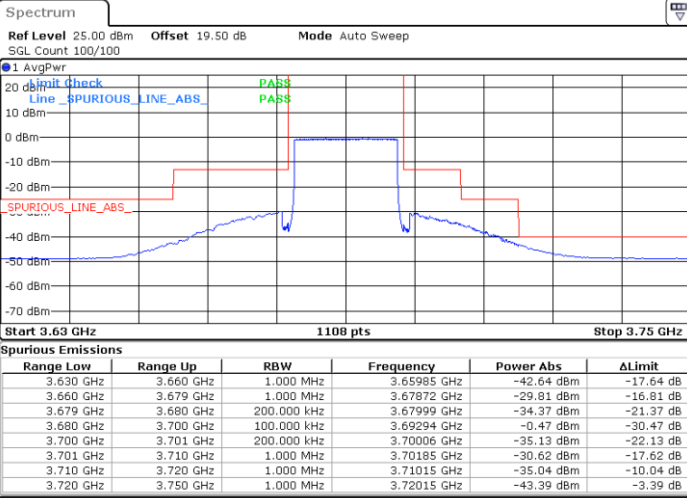


Date: 29.JAN.2024 21:12:11

Date: 29.JAN.2024 21:13:54

Highest Channel / FullRB

N/A



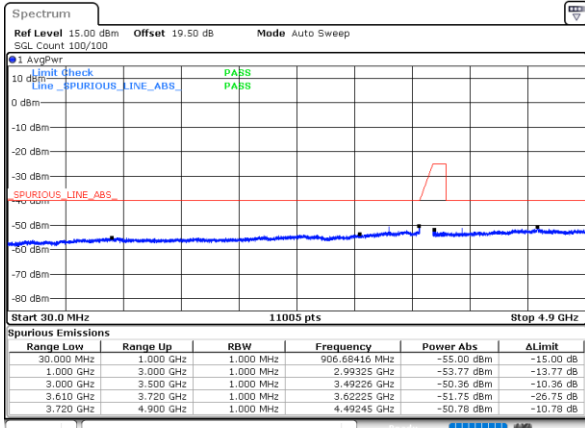
Date: 29.JAN.2024 21:42:14



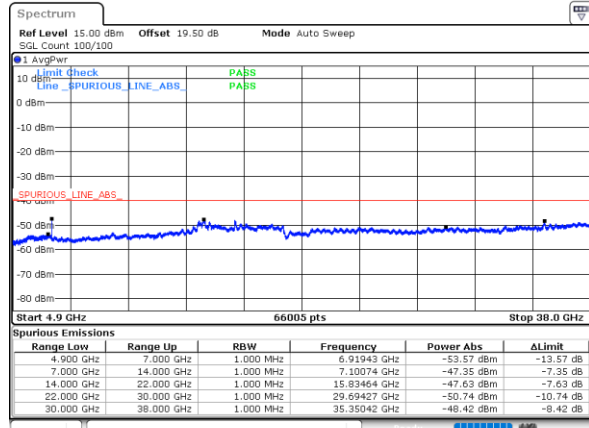
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

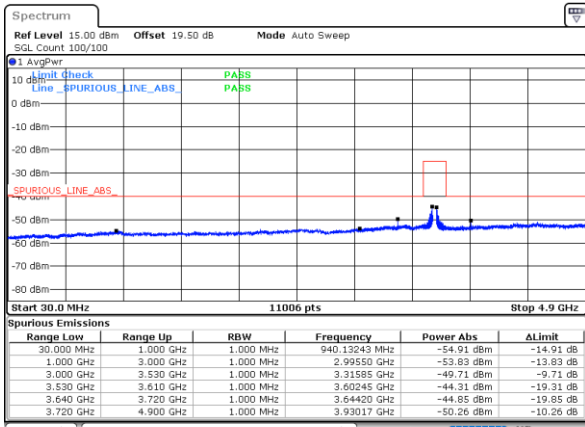


Date: 24_JAN.2024 23:32:49

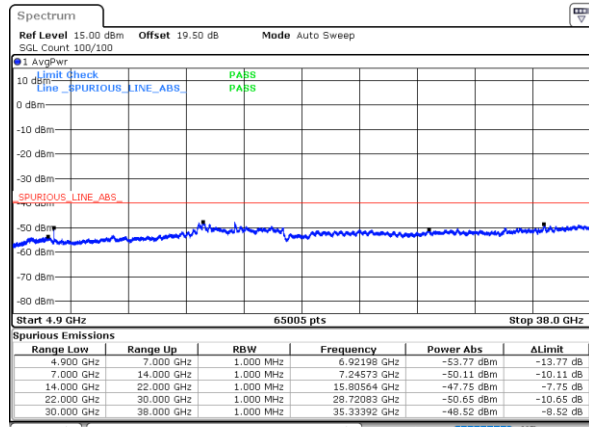


Date: 30_JAN.2024 21:42:04

Middle Channel / QPSK

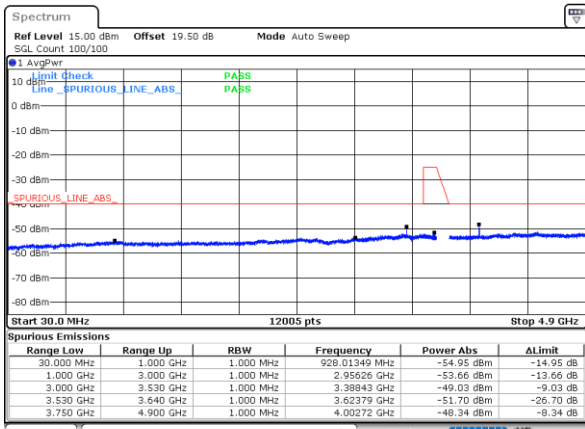


Date: 24_JAN.2024 23:48:38

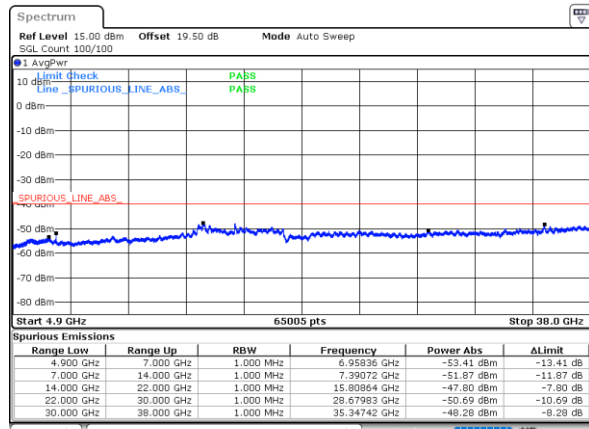


Date: 30_JAN.2024 21:43:28

Highest Channel / QPSK



Date: 24_JAN.2024 23:57:46

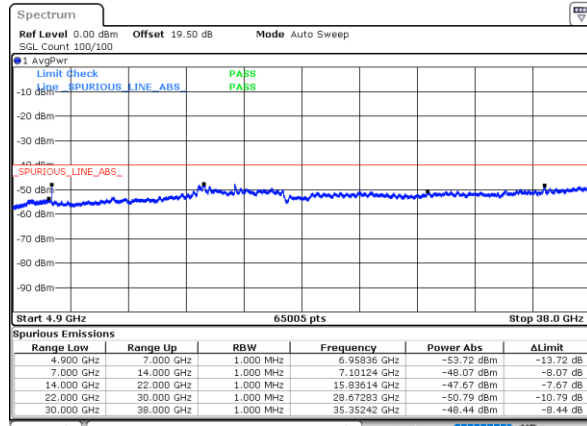
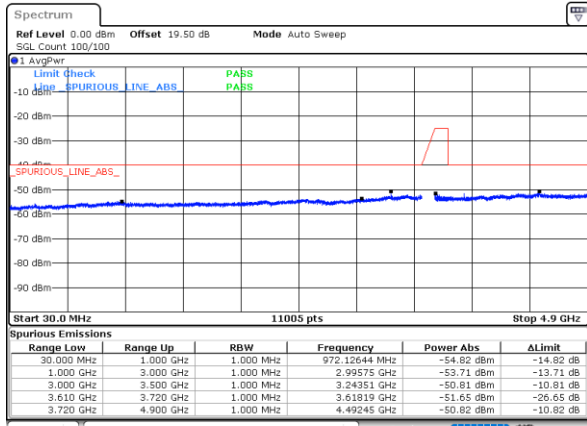


Date: 30_JAN.2024 21:44:53



LTE Band 48 / 10MHz

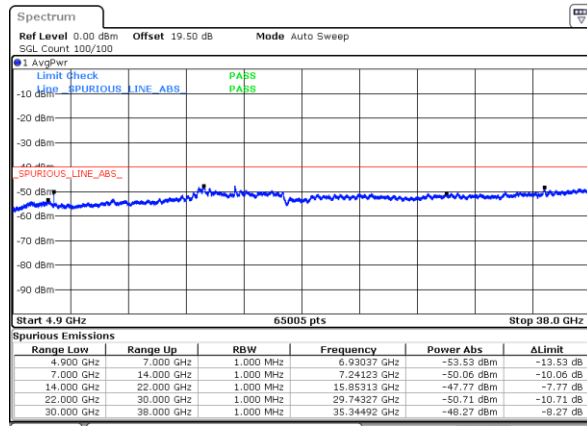
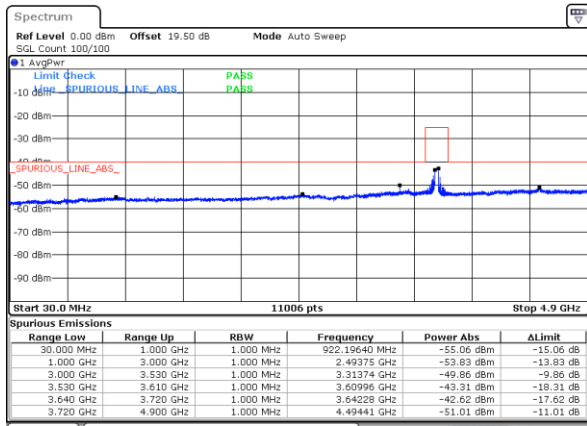
Lowest Channel / QPSK



Date: 25_JAN.2024 00:06:48

Date: 30_JAN.2024 22:03:38

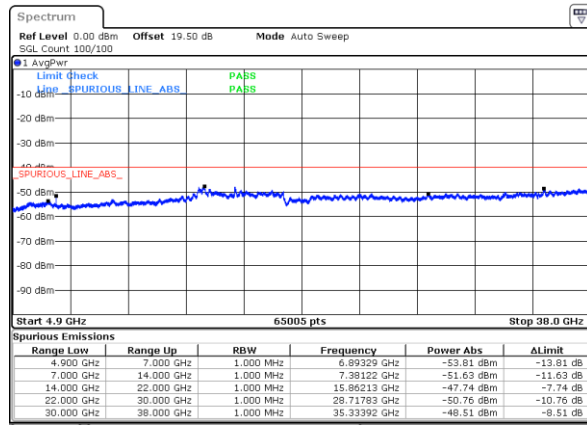
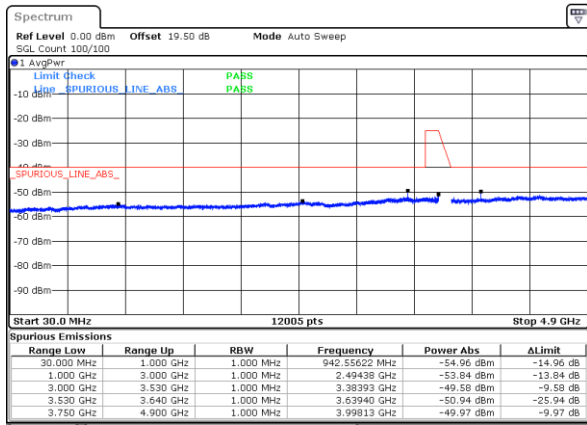
Middle Channel / QPSK



Date: 25_JAN.2024 00:19:01

Date: 30_JAN.2024 21:48:09

Highest Channel / QPSK



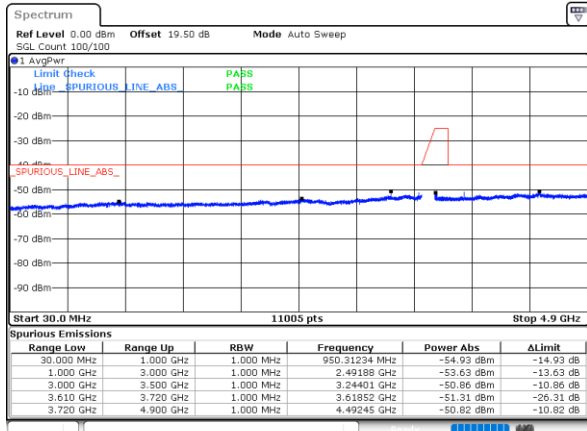
Date: 25_JAN.2024 00:28:08

Date: 30_JAN.2024 21:49:34

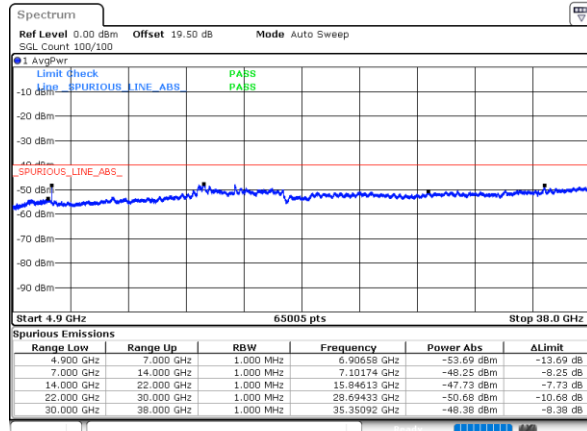


LTE Band 48 / 15MHz

Lowest Channel / QPSK

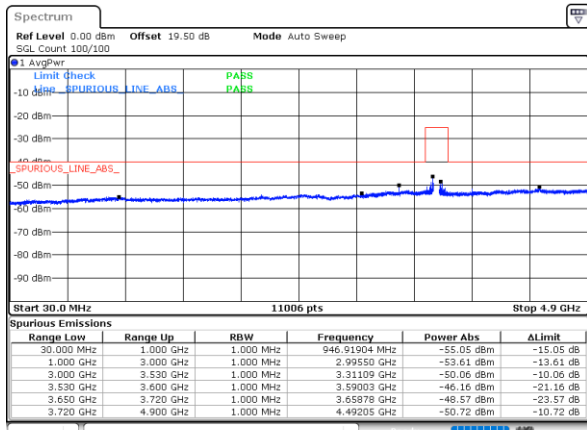


Date: 25_JAN.2024 00:37:14

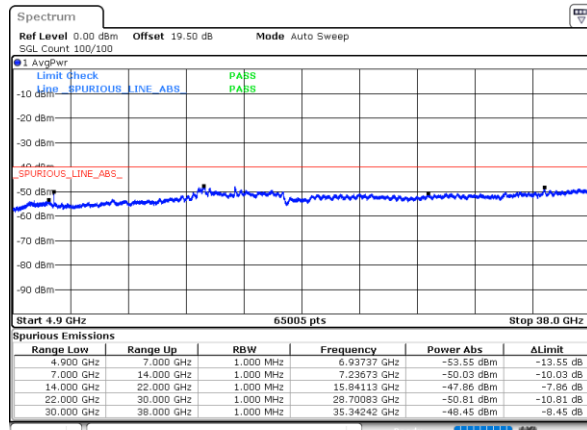


Date: 30_JAN.2024 22:05:34

Middle Channel / QPSK

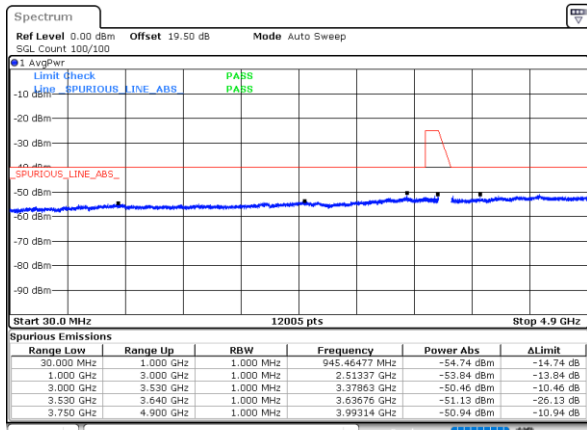


Date: 25_JAN.2024 00:53:06

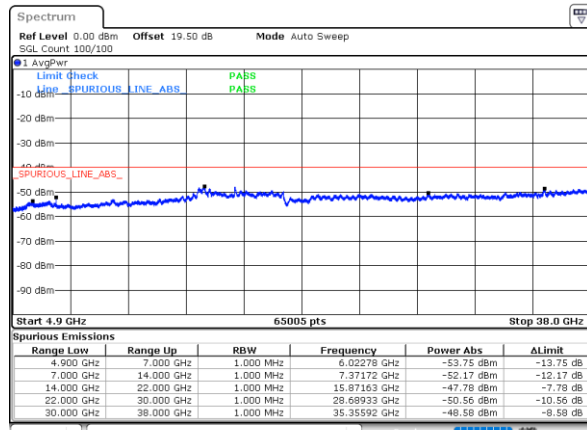


Date: 30_JAN.2024 21:52:50

Highest Channel / QPSK



Date: 25_JAN.2024 01:02:13

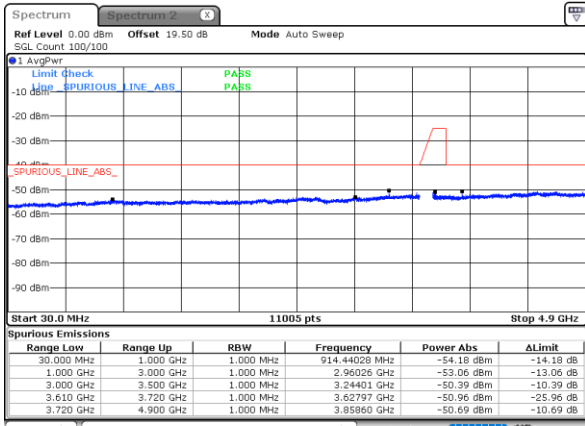


Date: 30_JAN.2024 21:54:16

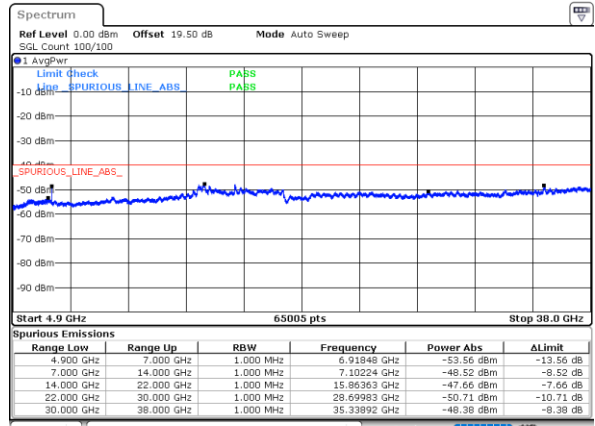


LTE Band 48 / 20MHz

Lowest Channel / QPSK

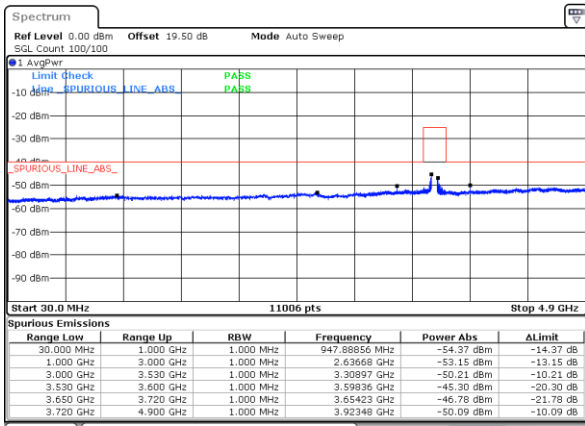


Date: 29, JAN, 2024 20:07:01

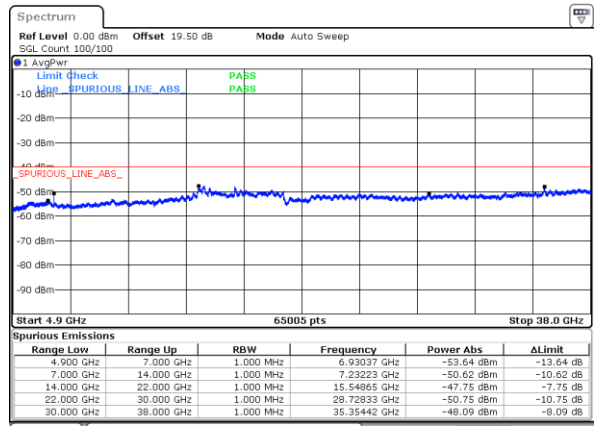


Date: 30, JAN, 2024 22:07:30

Middle Channel / QPSK

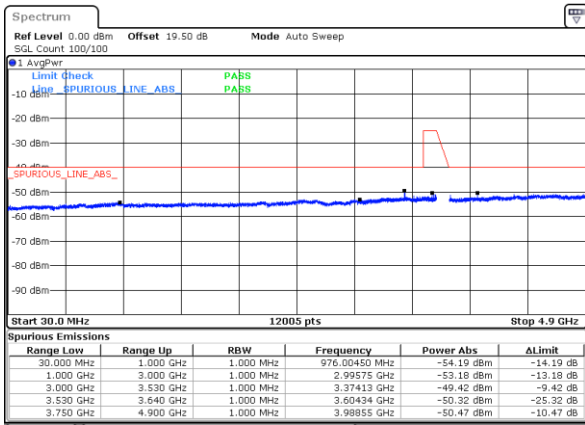


Date: 29, JAN, 2024 20:57:23

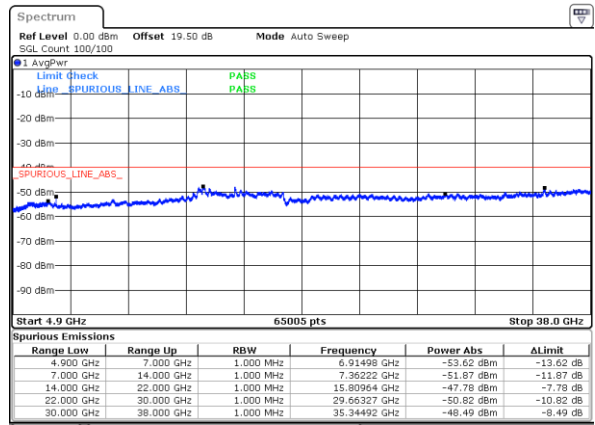


Date: 30, JAN, 2024 21:57:31

Highest Channel / QPSK



Date: 29, JAN, 2024 21:23:47



Date: 30, JAN, 2024 21:58:57



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	0.0008	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

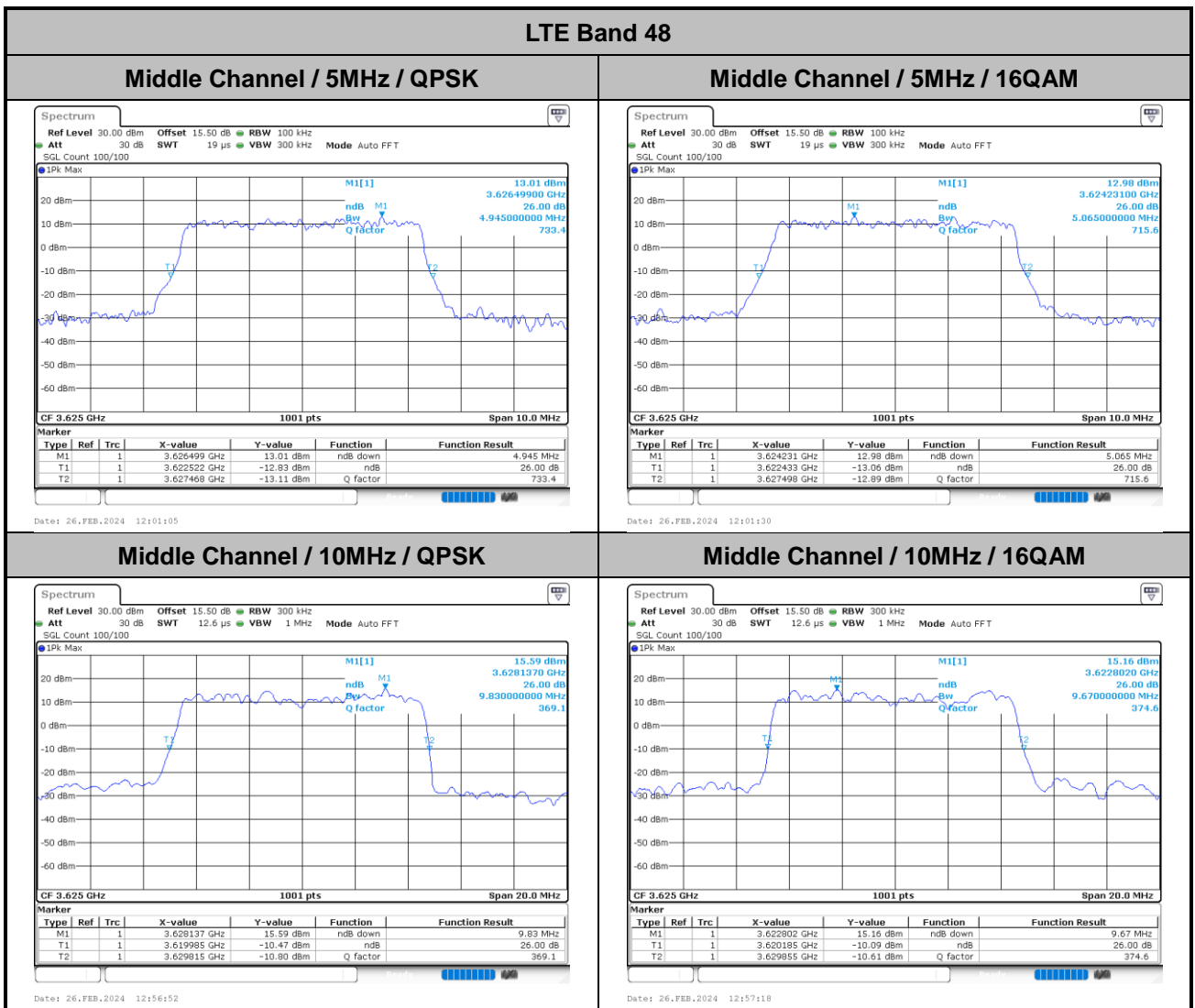
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48(Other PA)

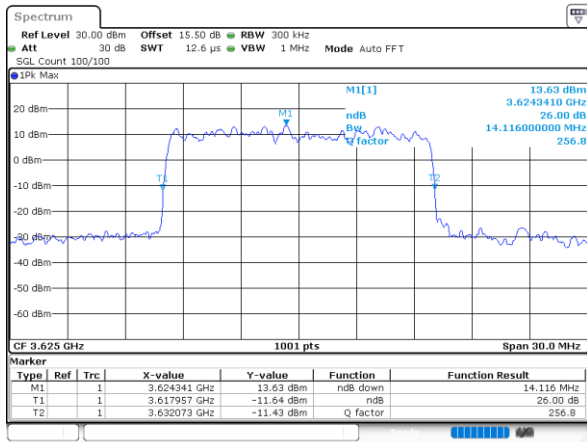
26dB Bandwidth

Mode	LTE Band 48 : 26dB BW(MHz)											
	BW		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	5.07	9.83	9.67	14.12	14.39	18.66	19.26



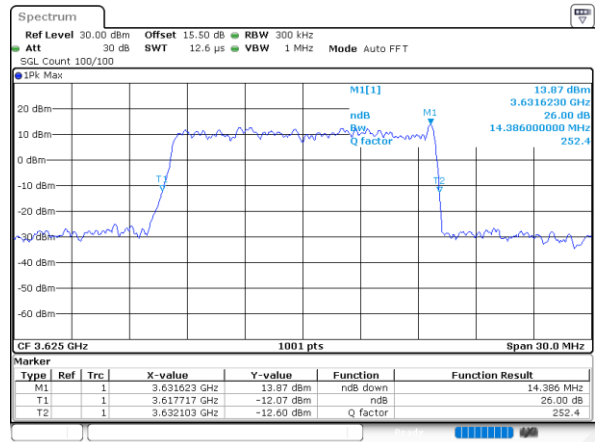


Middle Channel / 15MHz / QPSK



Date: 26.FEB.2024 13:56:34

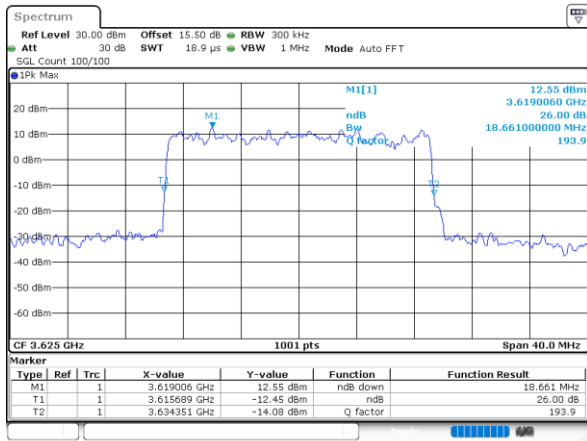
Middle Channel / 15MHz / 16QAM



Date: 26.FEB.2024 13:56:59

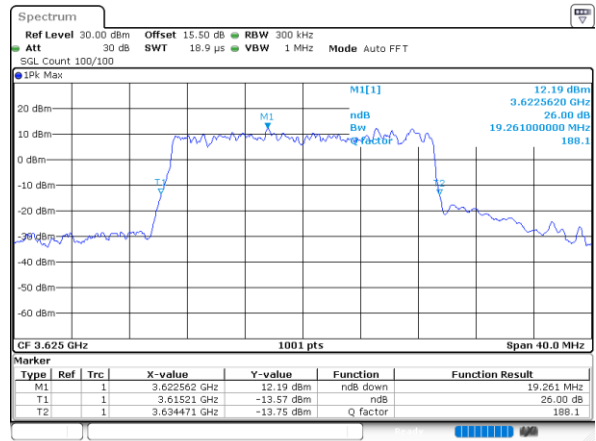
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 26.FEB.2024 14:56:51

Middle Channel / 20MHz / 16QAM

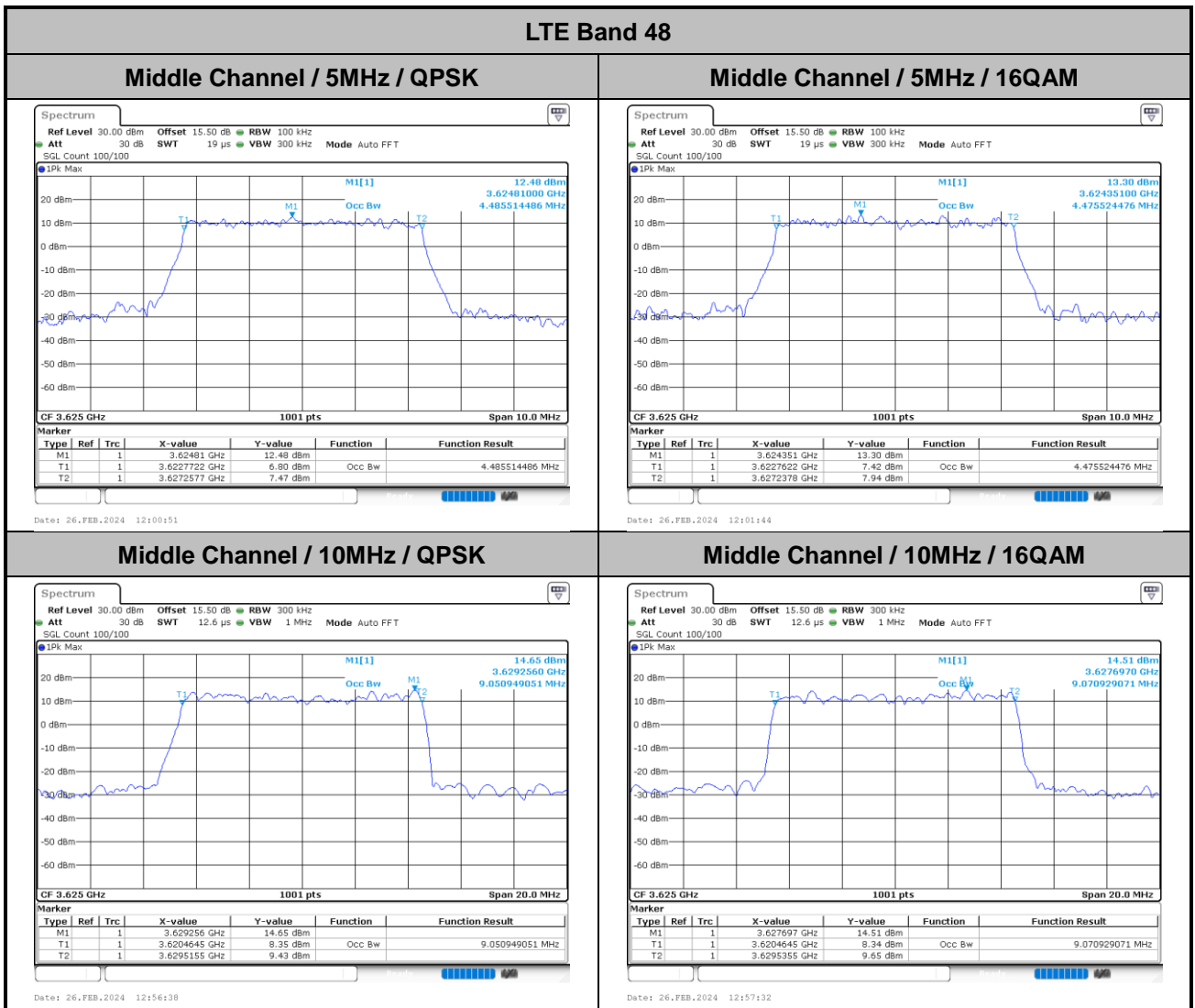


Date: 26.FEB.2024 14:56:25



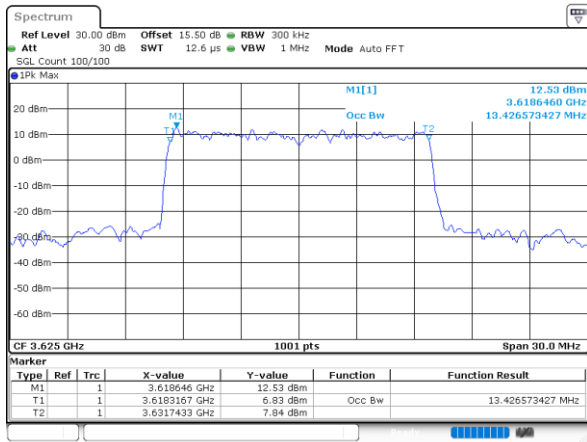
Occupied Bandwidth

Mode	LTE Band 48 : 99%OBW(MHz)											
	BW		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.48	9.05	9.07	13.43	13.46	17.90	17.90



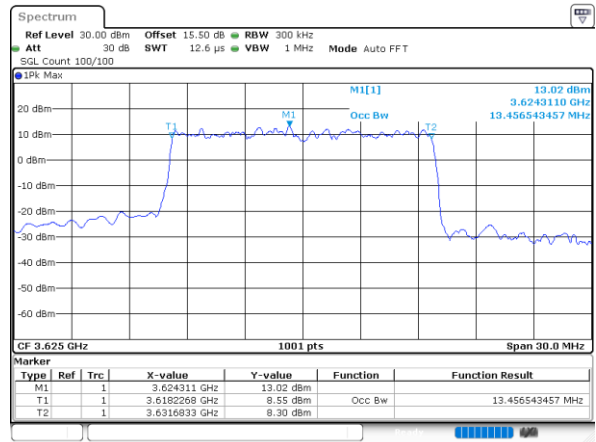


Middle Channel / 15MHz / QPSK



Date: 26.FEB.2024 13:56:20

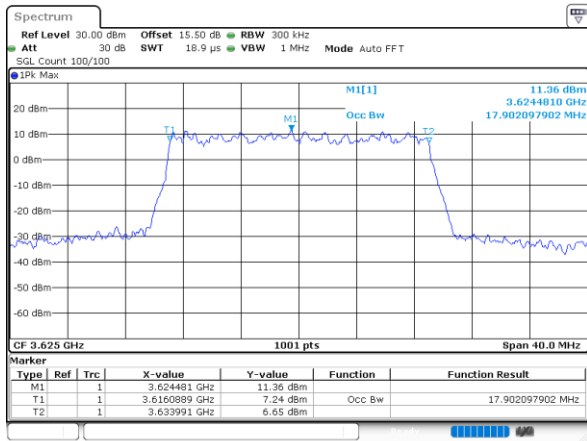
Middle Channel / 15MHz / 16QAM



Date: 26.FEB.2024 13:57:13

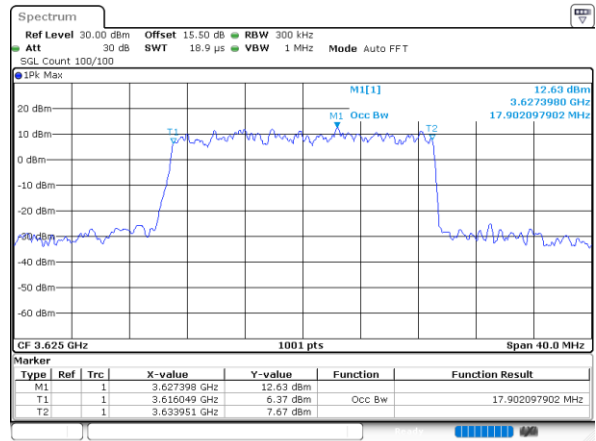
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 26.FEB.2024 14:57:05

Middle Channel / 20MHz / 16QAM



Date: 26.FEB.2024 14:56:11



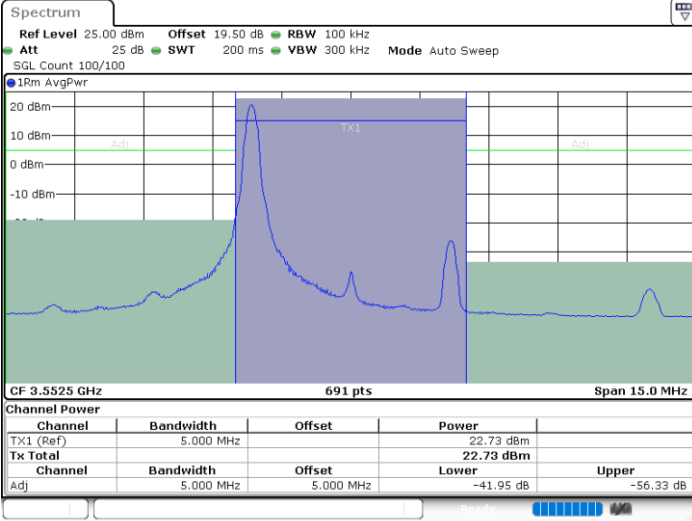
ACLR

LTE Band 48 / 5MHz

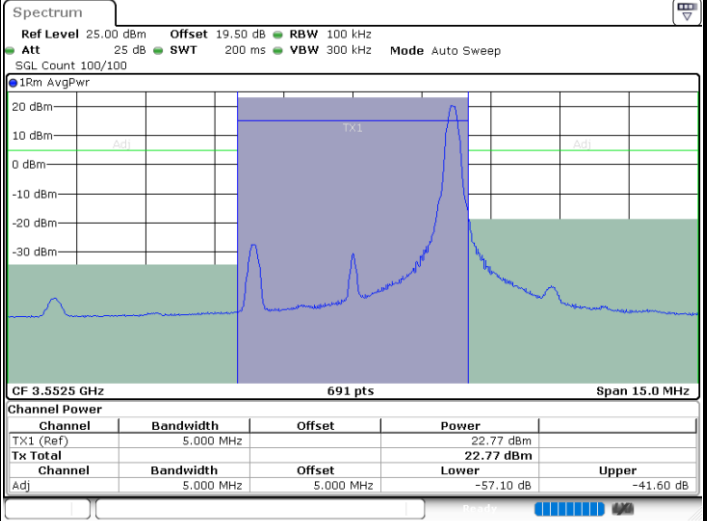
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



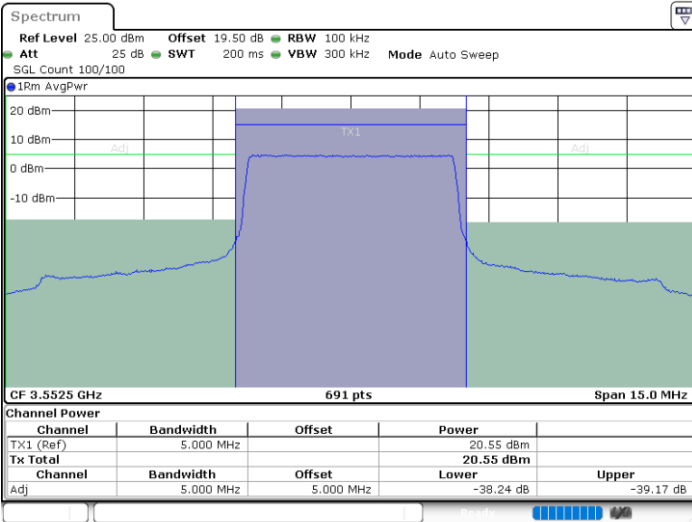
Date: 26.FEB.2024 11:30:00



Date: 26.FEB.2024 11:30:45

Lowest Channel / FullIRB

N/A



Date: 26.FEB.2024 11:26:14

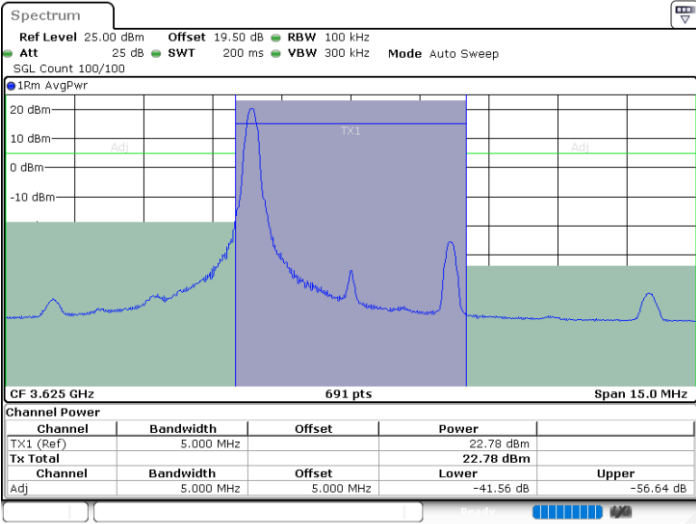


LTE Band 48 / 5MHz

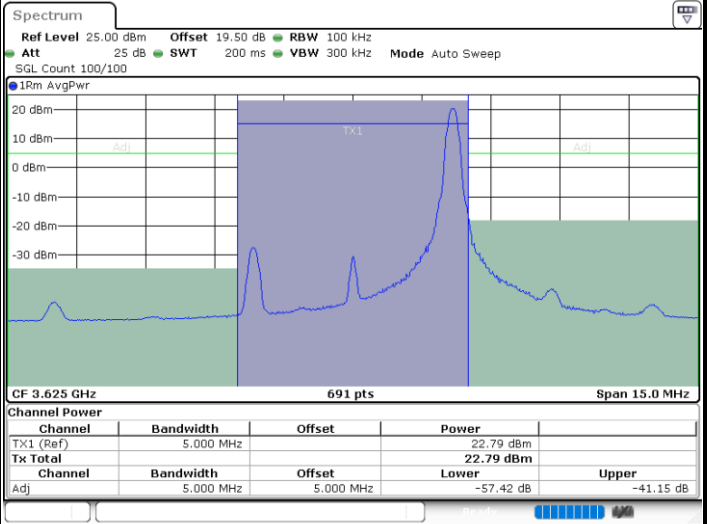
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



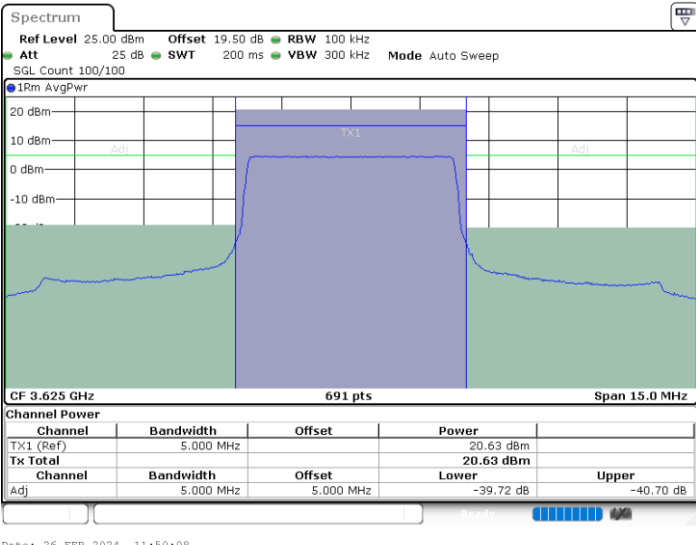
Date: 26.FEB.2024 11:46:27



Date: 26.FEB.2024 11:45:43

Middle Channel / FullIRB

N/A



Date: 26.FEB.2024 11:50:08

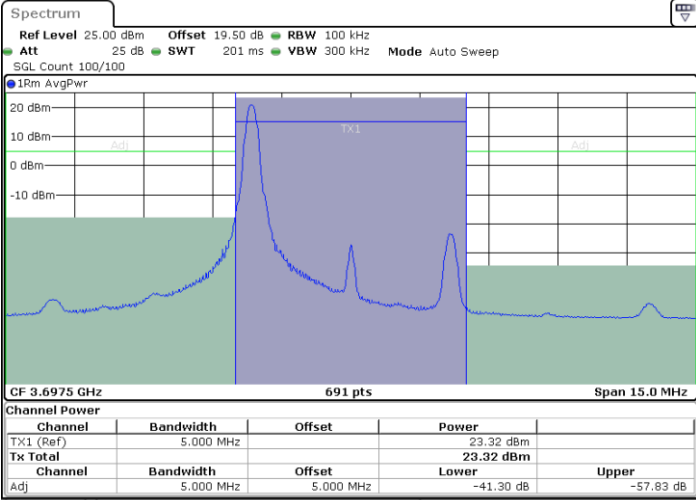


LTE Band 48 / 5MHz

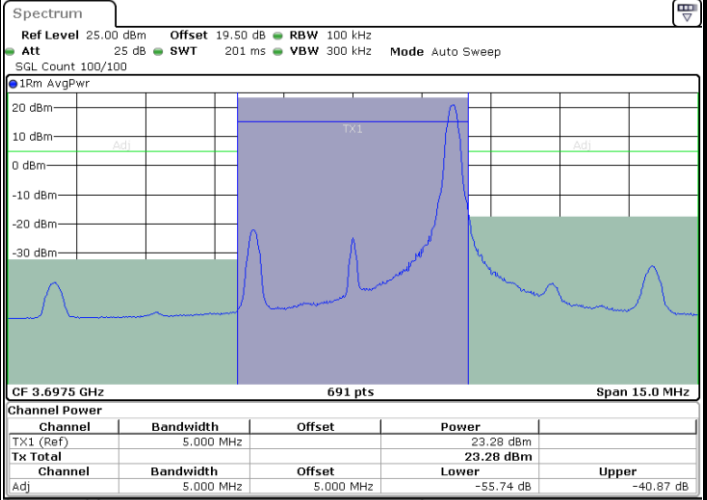
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



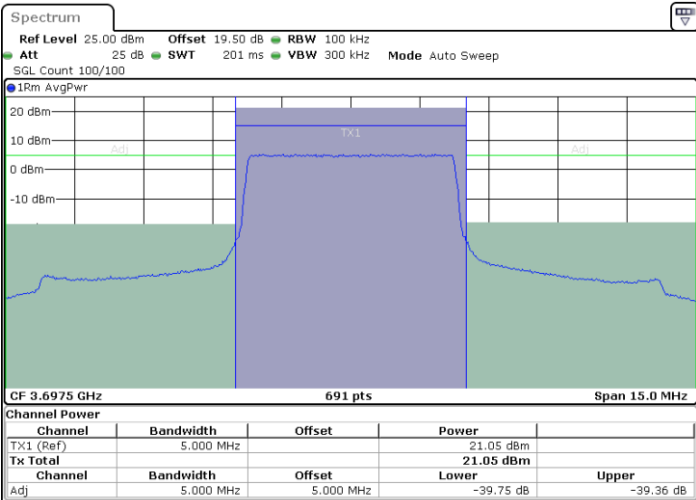
Date: 26.FEB.2024 19:03:26



Date: 26.FEB.2024 19:08:58

Highest Channel / FullRB

N/A



Date: 26.FEB.2024 19:54:23

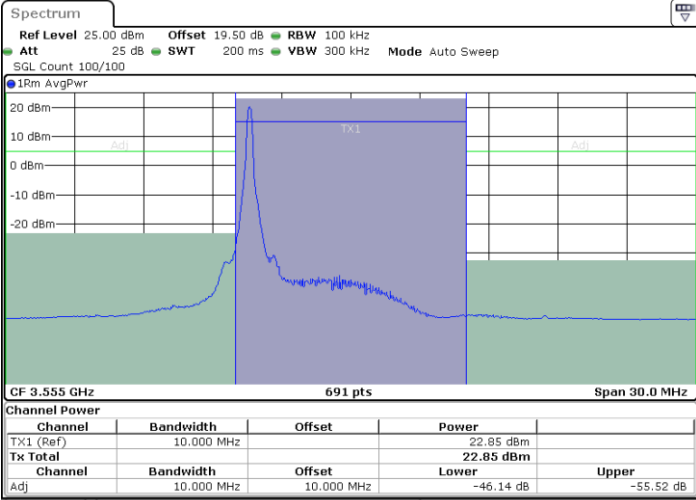


LTE Band 48 / 10MHz

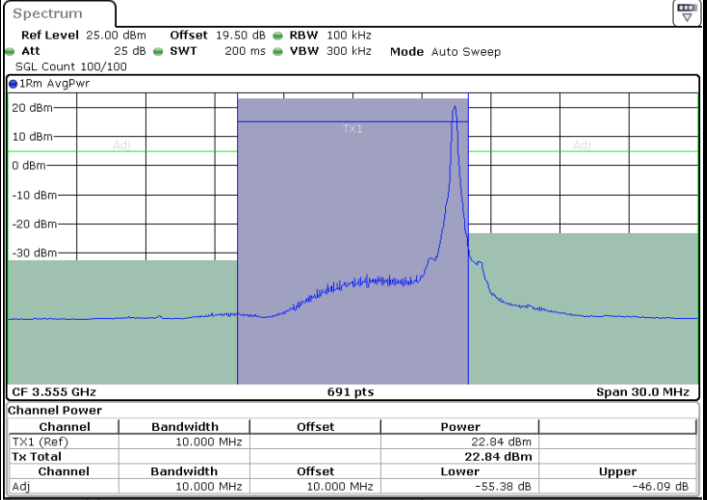
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



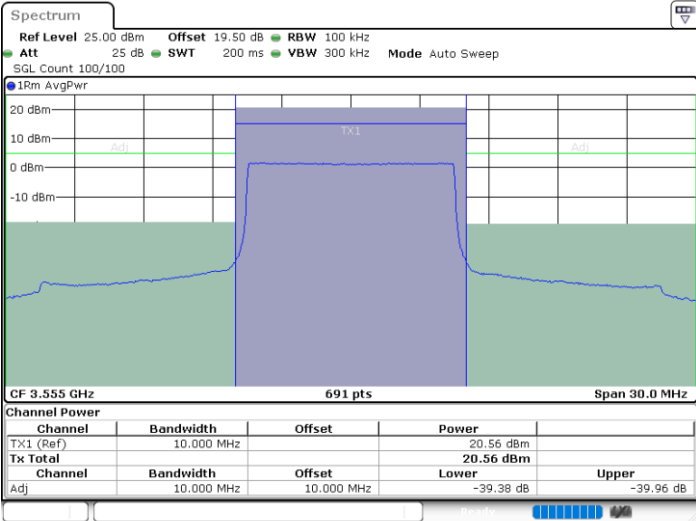
Date: 26.FEB.2024 12:26:37



Date: 26.FEB.2024 12:25:52

Lowest Channel / FullIRB

N/A



Date: 26.FEB.2024 12:22:05

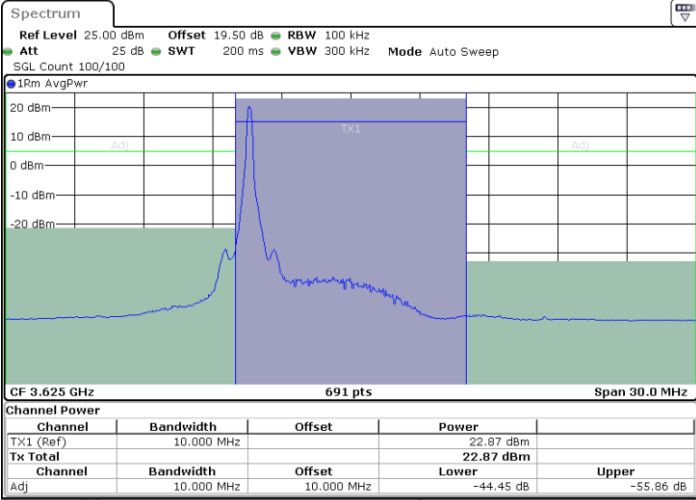


LTE Band 48 / 10MHz

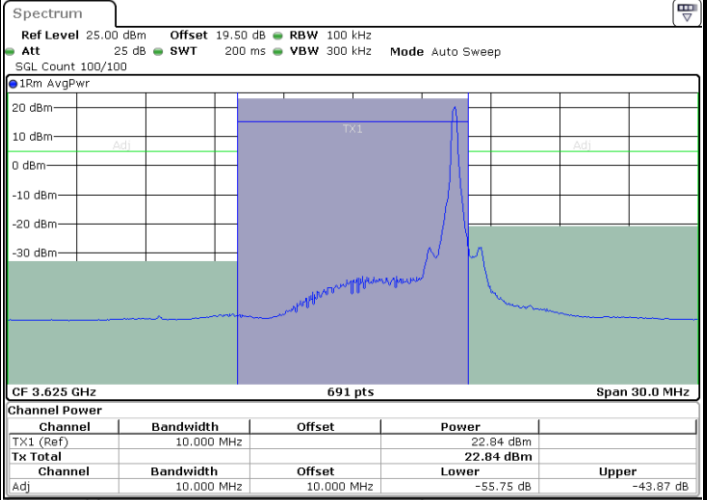
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



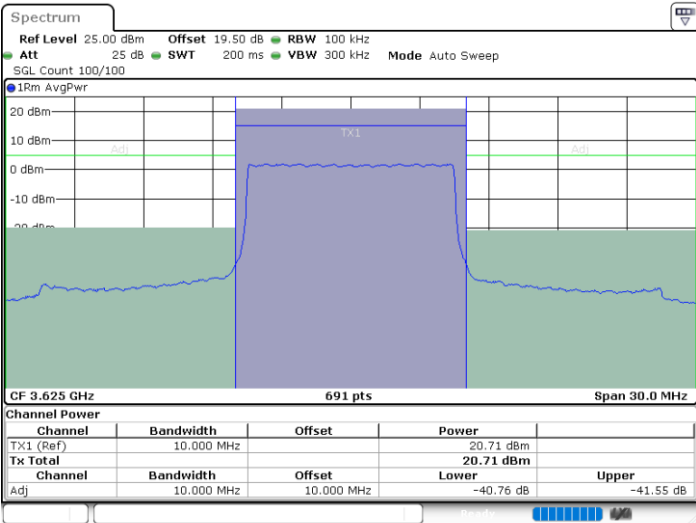
Date: 26.FEB.2024 12:41:25



Date: 26.FEB.2024 12:42:10

Middle Channel / FullIRB

N/A



Date: 26.FEB.2024 12:45:56

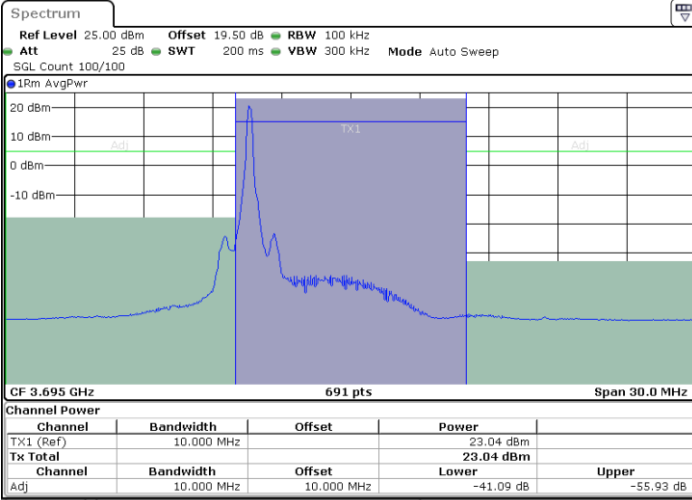


LTE Band 48 / 10MHz

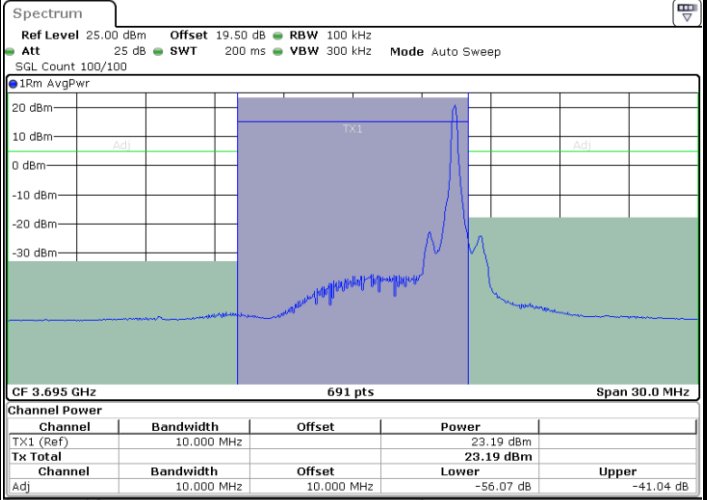
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



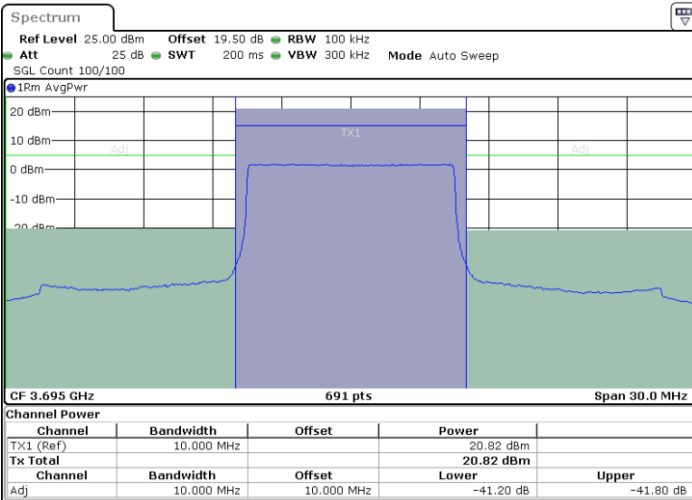
Date: 26.FEB.2024 13:03:38



Date: 26.FEB.2024 13:02:52

Highest Channel / FullRB

N/A



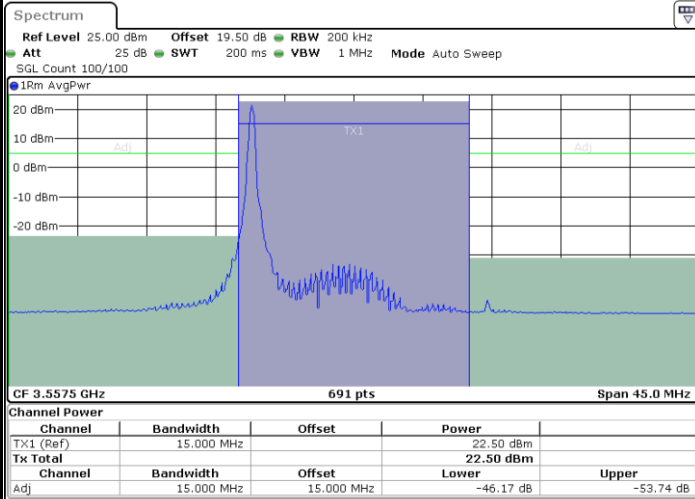
Date: 26.FEB.2024 12:59:02



LTE Band 48 / 15MHz

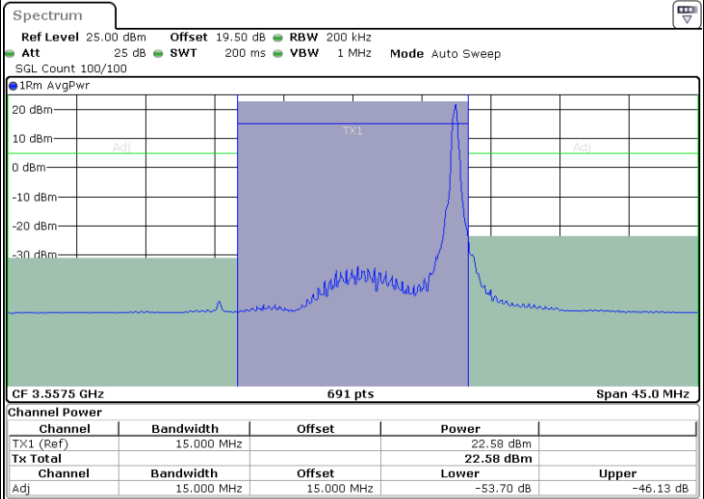
QPSK

Lowest Channel / 1RB0



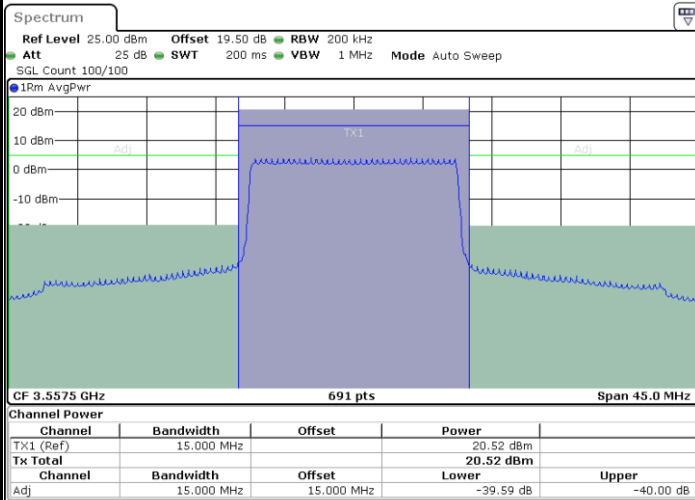
Date: 26.FEB.2024 13:22:16

Lowest Channel / 1RBmax



Date: 26.FEB.2024 13:21:30

Lowest Channel / FullIRB



Date: 26.FEB.2024 13:17:42

N/A

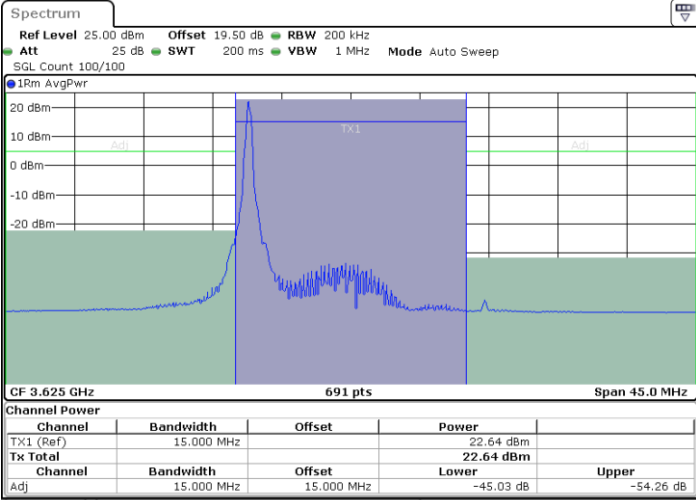


LTE Band 48 / 15MHz

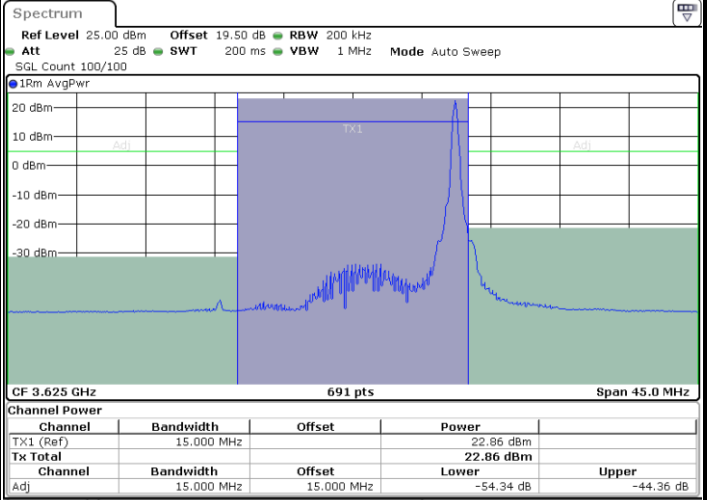
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



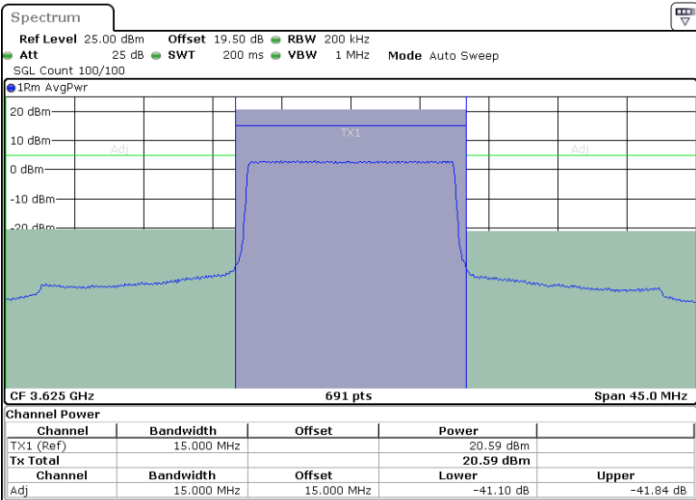
Date: 26.FEB.2024 13:37:27



Date: 26.FEB.2024 13:38:12

Middle Channel / FullIRB

N/A



Date: 26.FEB.2024 13:41:55

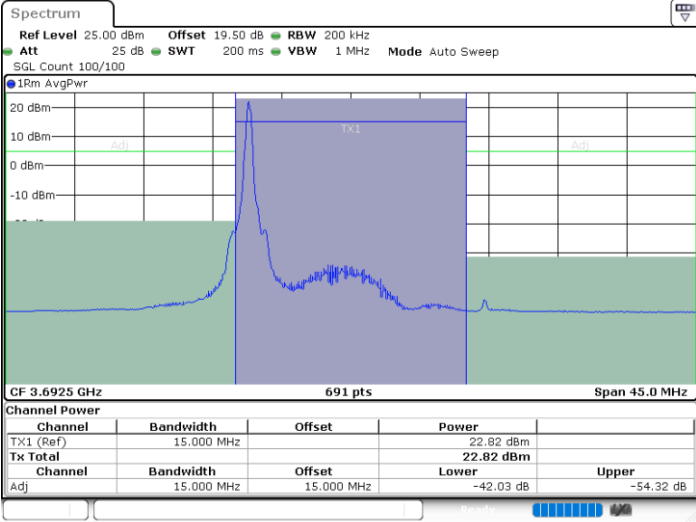


LTE Band 48 / 15MHz

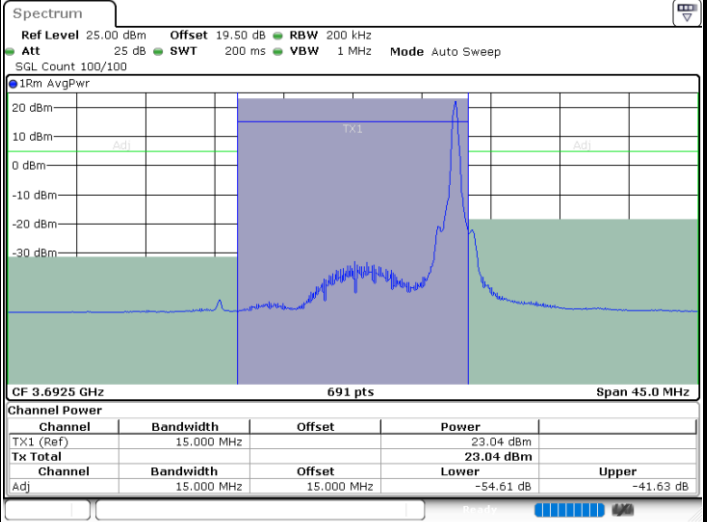
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



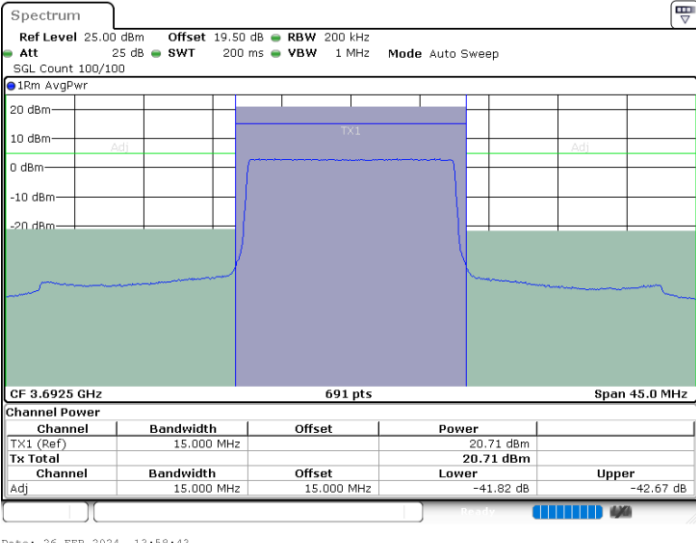
Date: 26.FEB.2024 14:03:20



Date: 26.FEB.2024 14:02:34

Highest Channel / FullRB

N/A



Date: 26.FEB.2024 13:58:43

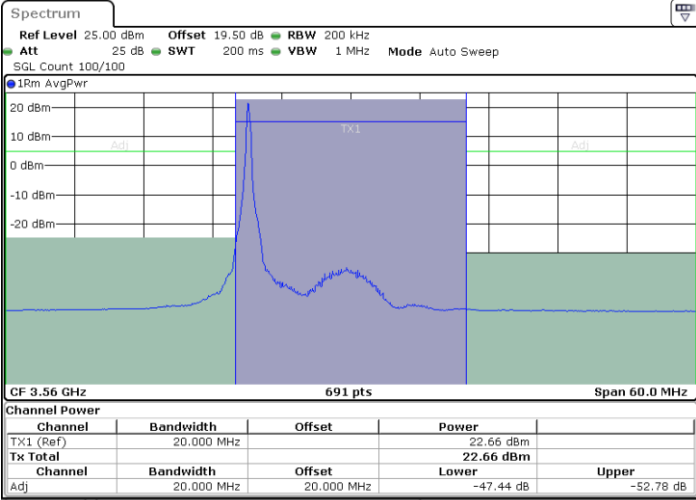


LTE Band 48 / 20MHz

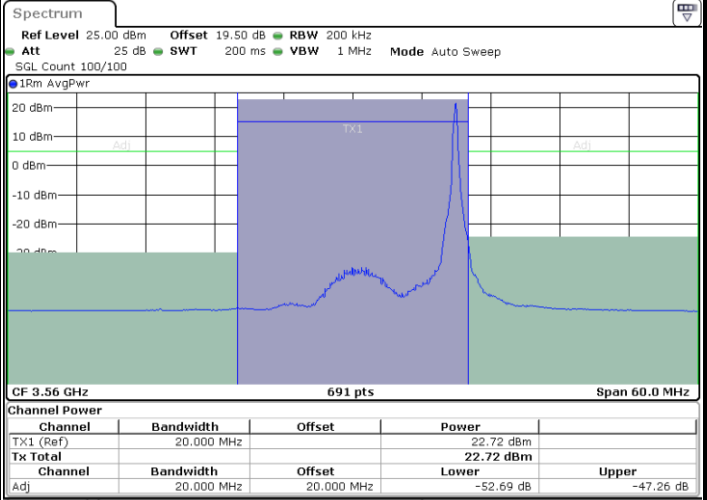
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



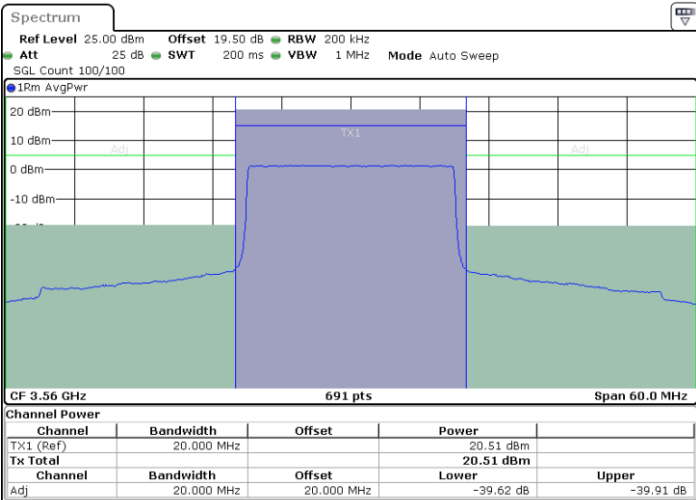
Date: 26.FEB.2024 14:23:48



Date: 26.FEB.2024 14:20:05

Lowest Channel / FullIRB

N/A



Date: 26.FEB.2024 14:17:51