

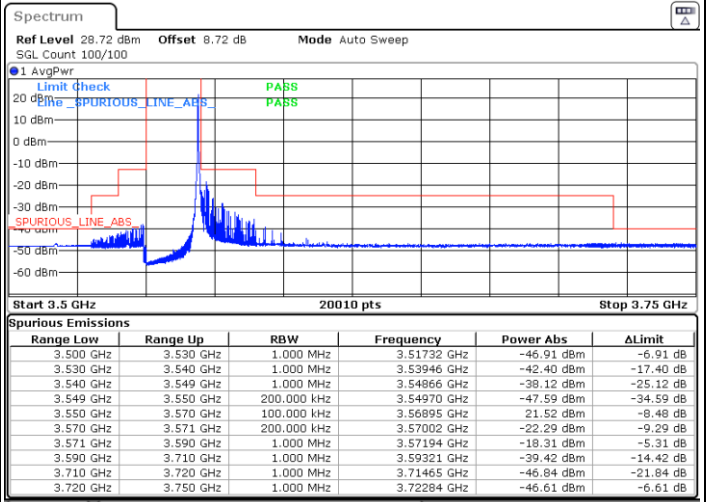
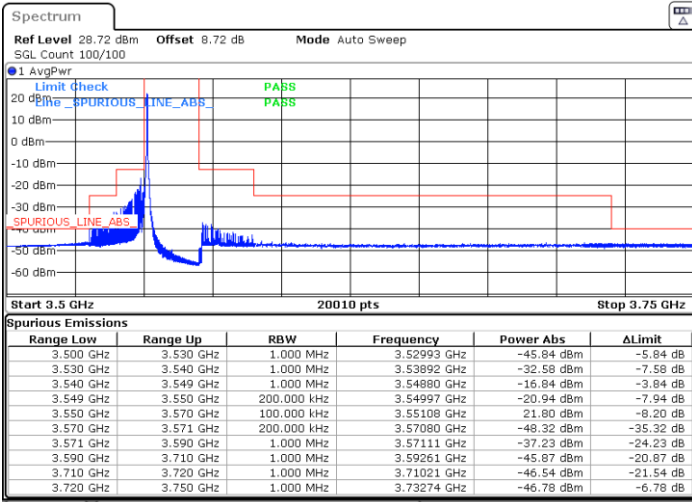


LTE Band 48 / 20MHz

QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

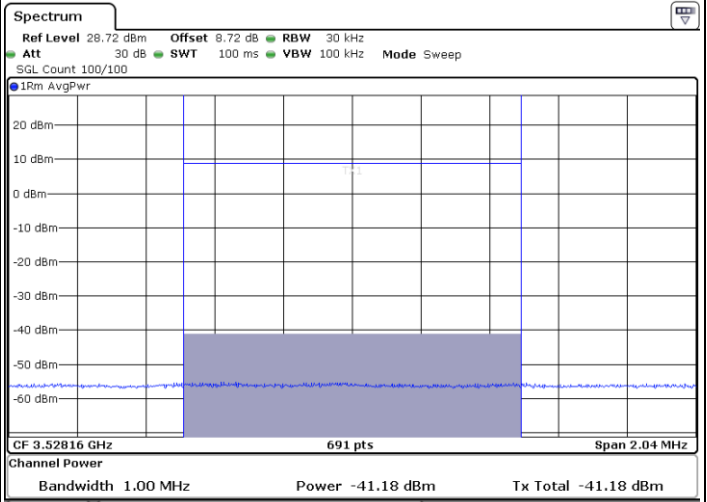
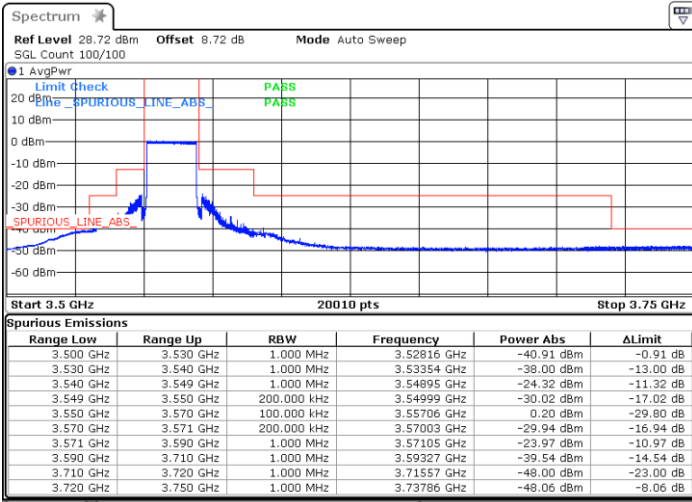


Date: 3.DEC.2024 16:46:05

Date: 3.DEC.2024 16:53:13

Lowest Channel / FullIRB

Lowest Channel / FullIRB 展开



Date: 12.DEC.2024 21:35:04

Date: 12.DEC.2024 21:47:06

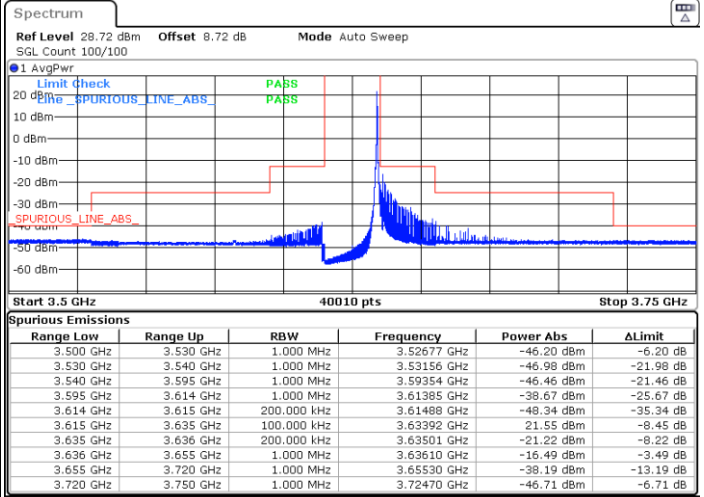
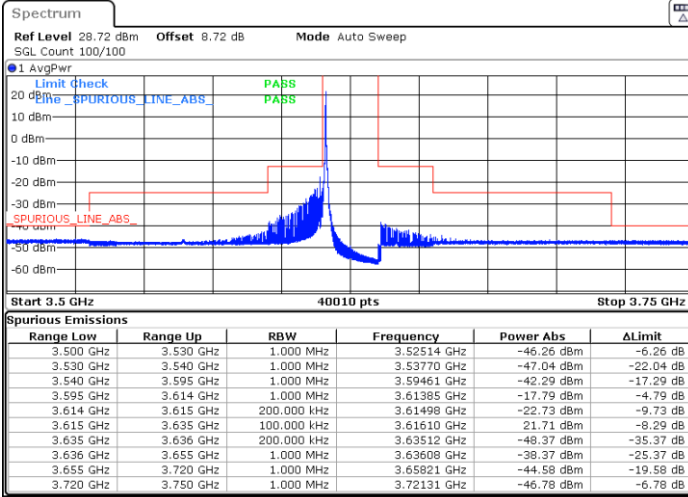


LTE Band 48 / 20MHz

QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

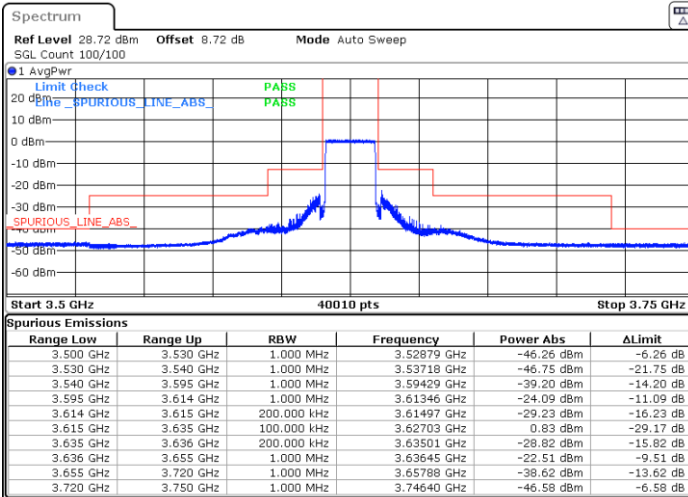


Date: 3.DEC.2024 17:08:46

Date: 3.DEC.2024 17:15:52

Middle Channel / Full

N/A



Date: 3.DEC.2024 17:22:57

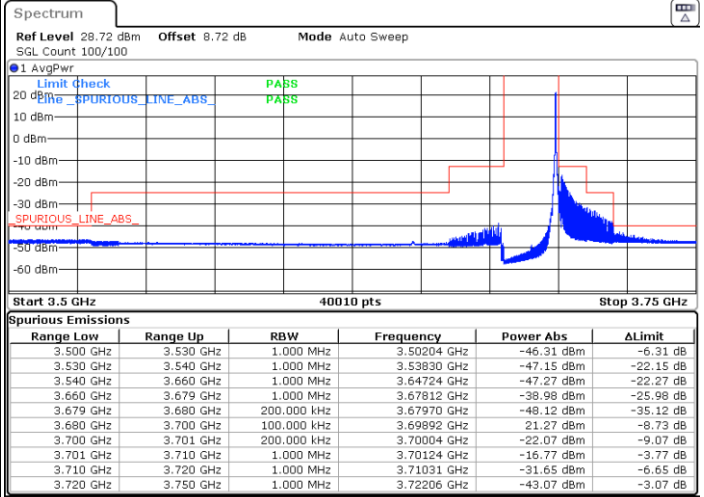
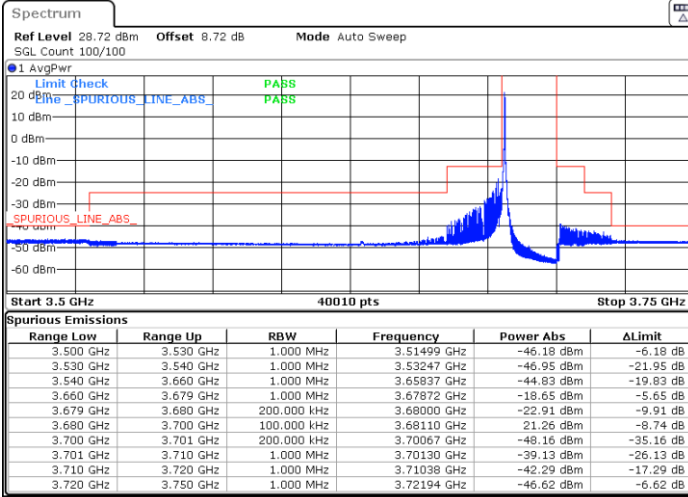


LTE Band 48 / 20MHz

QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

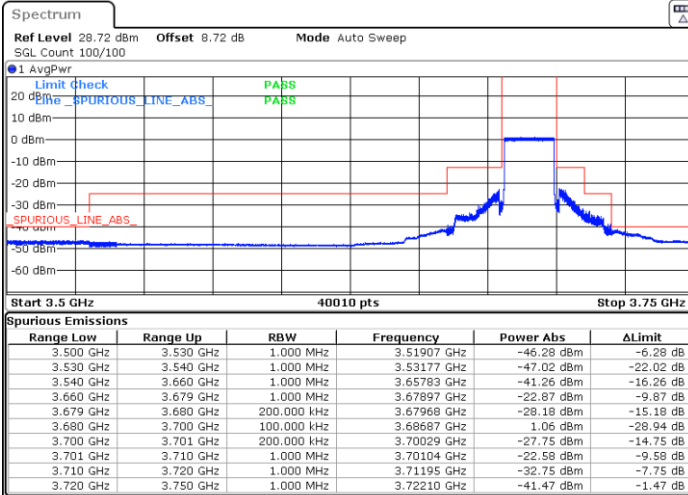


Date: 3.DEC.2024 17:31:24

Date: 3.DEC.2024 17:38:32

Highest Channel / FullIRB

N/A



Date: 3.DEC.2024 17:45:40

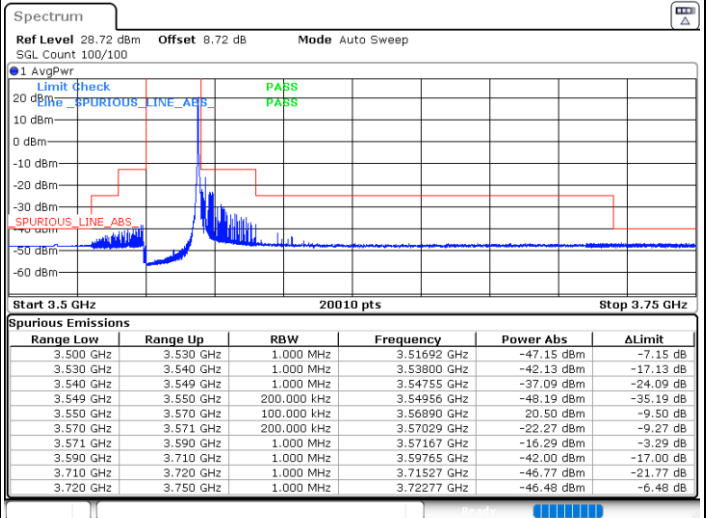
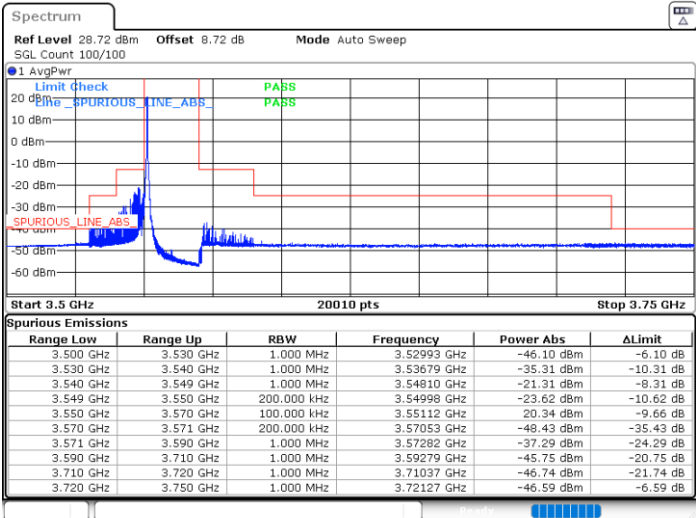


LTE Band 48 / 20MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

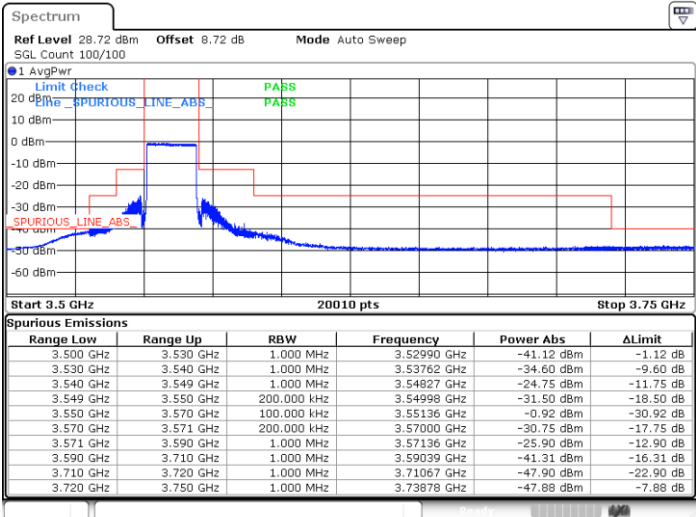


Date: 3.DEC.2024 16:47:52

Date: 3.DEC.2024 16:55:00

Lowest Channel / FullIRB

N/A



Date: 12.DEC.2024 21:36:55

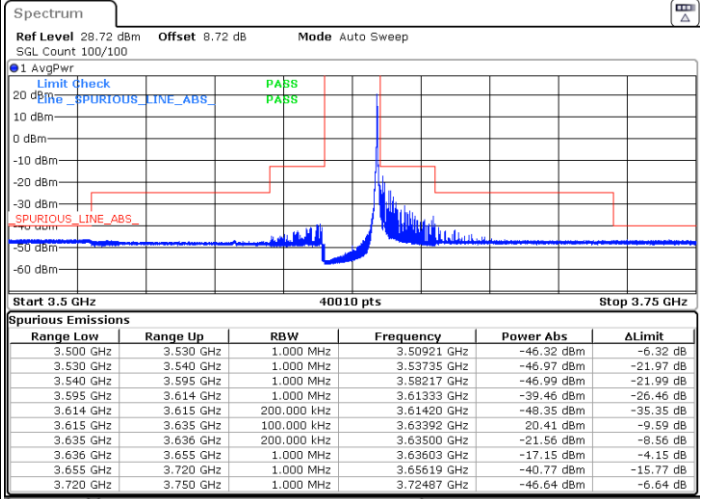
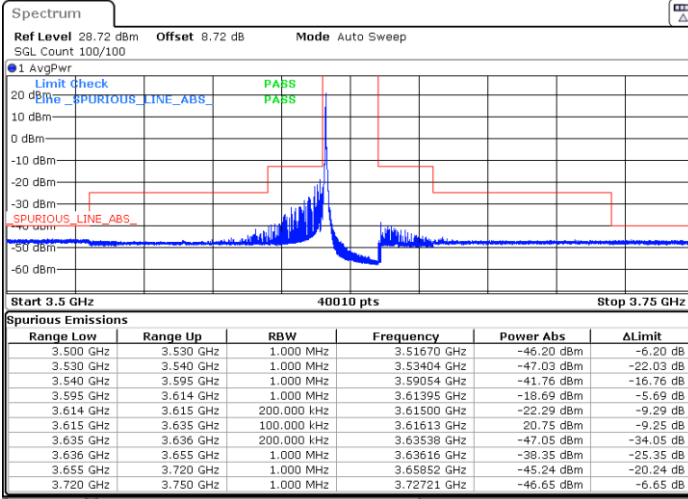


LTE Band 48 / 20MHz

16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

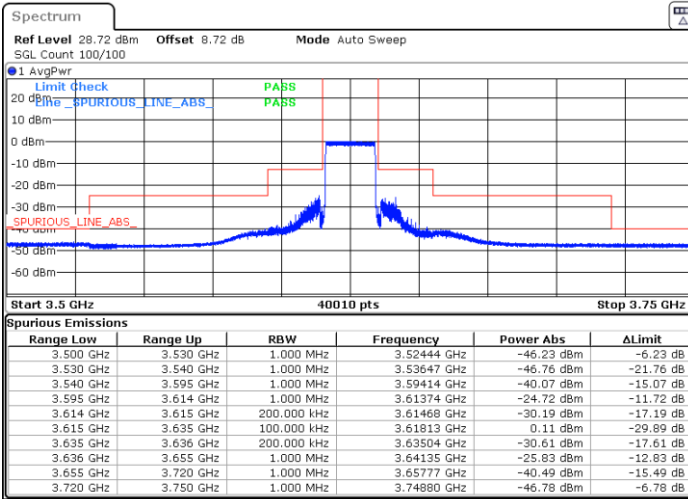


Date: 3.DEC.2024 17:10:33

Date: 3.DEC.2024 17:17:38

Middle Channel / Full

N/A



Date: 3.DEC.2024 17:24:44

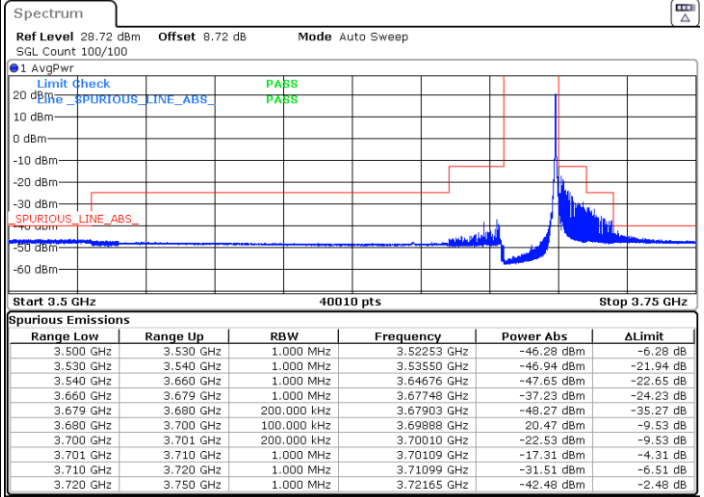
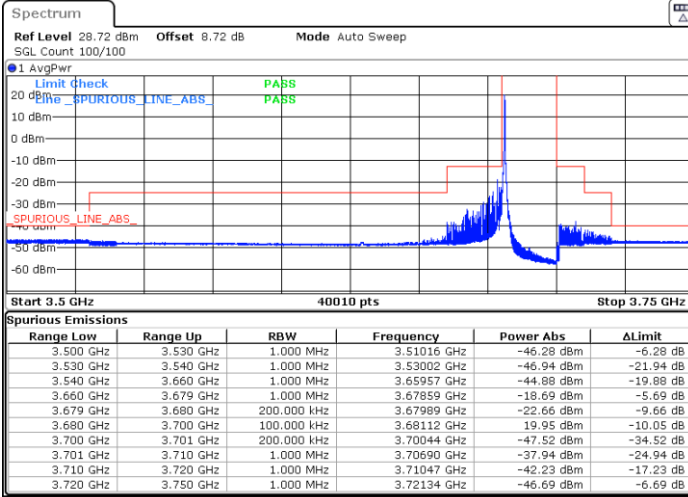


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

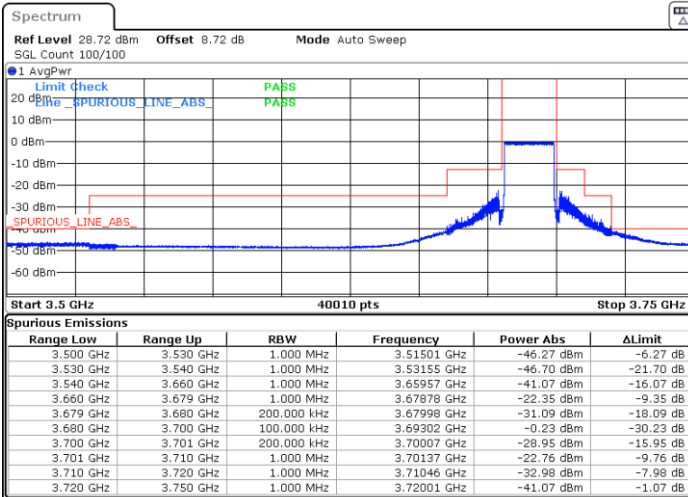


Date: 3.DEC.2024 17:33:11

Date: 3.DEC.2024 17:40:18

Highest Channel / FullIRB

N/A



Date: 3.DEC.2024 17:47:27

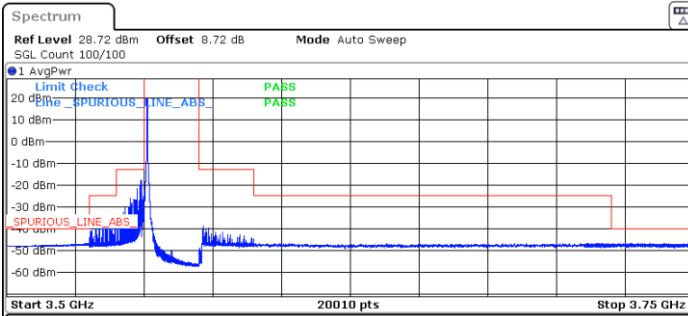


LTE Band 48 / 20MHz

64QAM

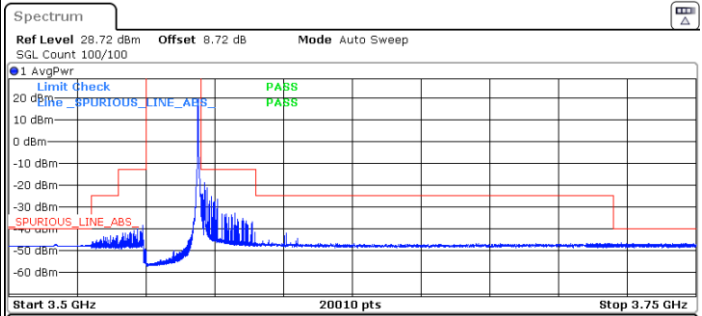
Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52840 GHz	-46.77 dBm	-6.77 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53654 GHz	-35.42 dBm	-10.42 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54860 GHz	-17.83 dBm	-4.83 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54989 GHz	-22.65 dBm	-9.65 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55106 GHz	19.46 dBm	-10.54 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57013 GHz	-48.79 dBm	-35.79 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57144 GHz	-38.74 dBm	-25.74 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59741 GHz	-46.73 dBm	-21.73 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71760 GHz	-46.93 dBm	-21.93 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74774 GHz	-46.79 dBm	-6.79 dB

Date: 3.DEC.2024 16:49:39

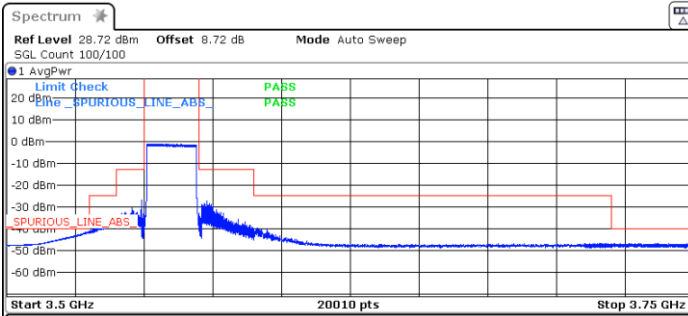


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51746 GHz	-47.32 dBm	-7.32 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53939 GHz	-43.19 dBm	-10.19 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54878 GHz	-38.38 dBm	-25.38 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54981 GHz	-49.33 dBm	-36.33 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.56890 GHz	19.56 dBm	-10.44 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57005 GHz	-24.04 dBm	-11.04 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57136 GHz	-18.99 dBm	-5.99 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.60106 GHz	-42.01 dBm	-17.01 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71513 GHz	-46.69 dBm	-21.69 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72281 GHz	-46.63 dBm	-6.63 dB

Date: 3.DEC.2024 16:56:46

Lowest Channel / FullIRB

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52990 GHz	-41.45 dBm	-1.45 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53959 GHz	-36.67 dBm	-11.67 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54890 GHz	-26.87 dBm	-13.87 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54975 GHz	-33.46 dBm	-20.46 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55129 GHz	-11.16 dBm	-31.16 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57001 GHz	-32.86 dBm	-19.86 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57288 GHz	-27.16 dBm	-14.16 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59123 GHz	-39.74 dBm	-14.74 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71472 GHz	-46.71 dBm	-21.71 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74756 GHz	-46.73 dBm	-6.73 dB

Date: 3.DEC.2024 18:12:47

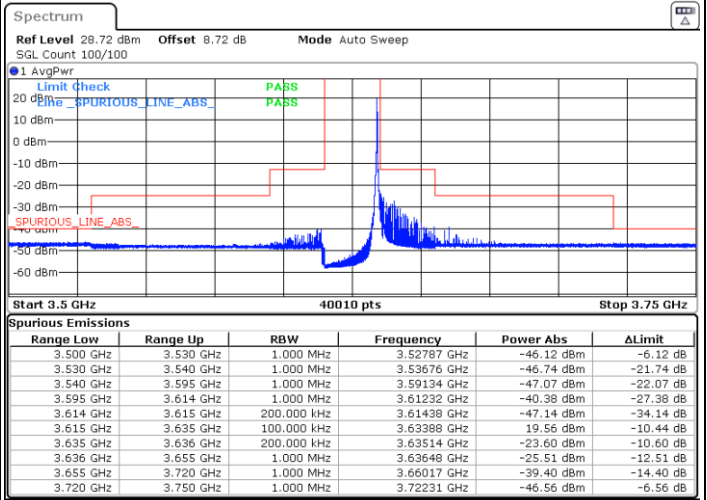
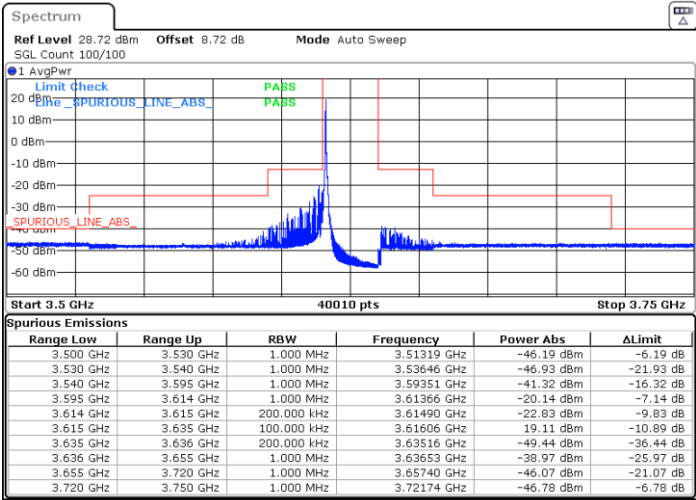


LTE Band 48 / 20MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

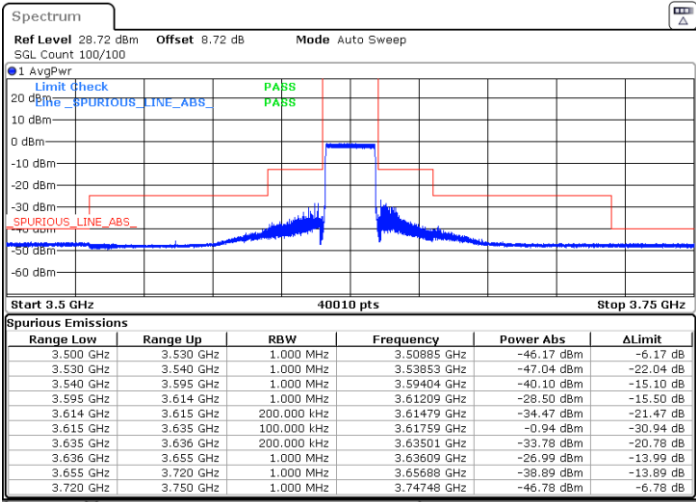


Date: 3.DEC.2024 17:12:19

Date: 3.DEC.2024 17:19:24

Middle Channel / Full

N/A



Date: 3.DEC.2024 17:26:30

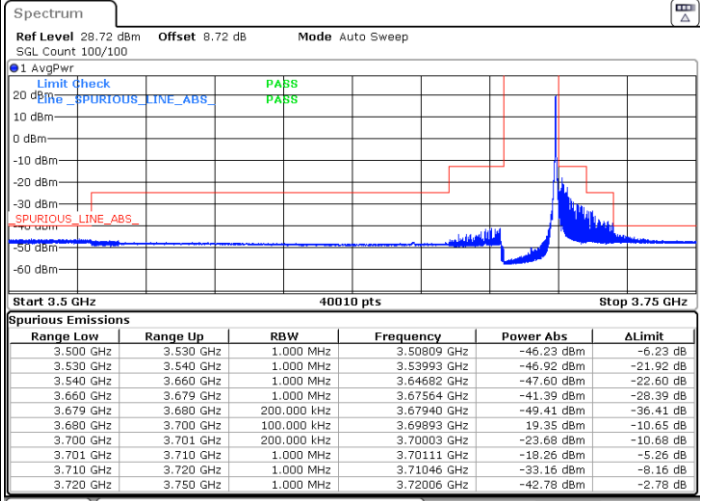
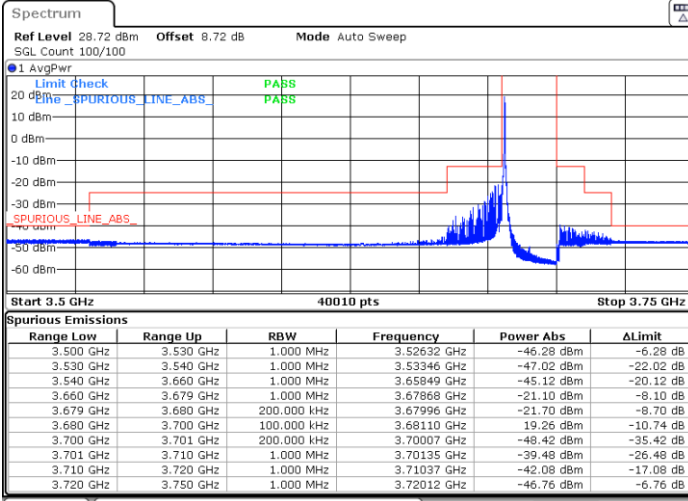


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

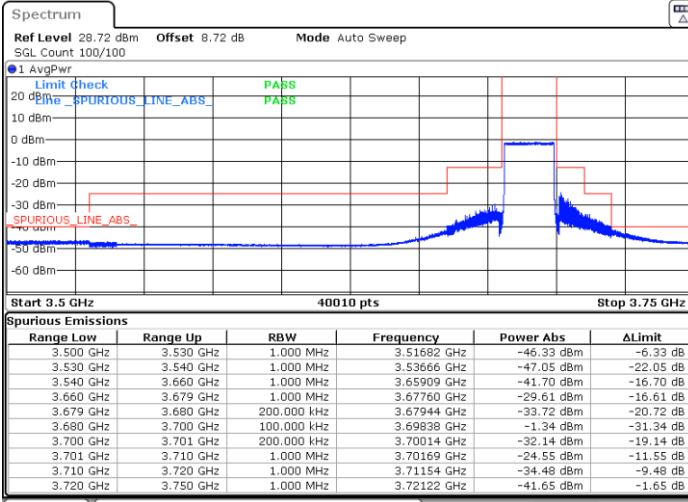


Date: 3.DEC.2024 17:34:58

Date: 3.DEC.2024 17:42:05

Highest Channel / FullIRB

N/A



Date: 3.DEC.2024 17:49:14

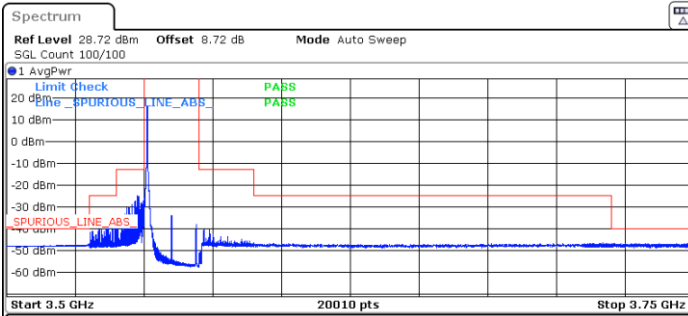


LTE Band 48 / 20MHz

256QAM

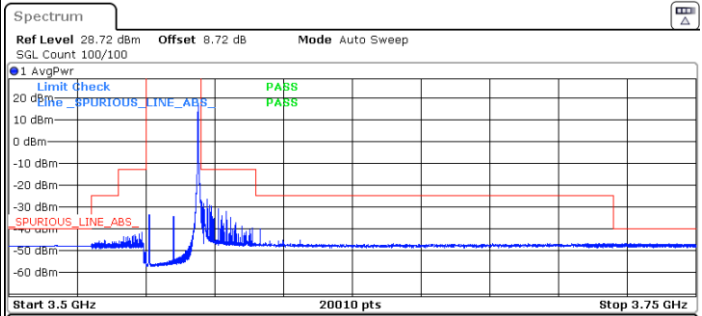
Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52950 GHz	-47.25 dBm	-7.25 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53990 GHz	-35.02 dBm	-10.02 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54754 GHz	-24.90 dBm	-11.90 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54991 GHz	-26.15 dBm	-13.15 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55110 GHz	16.50 dBm	-13.50 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57057 GHz	-50.63 dBm	-37.63 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57366 GHz	-40.13 dBm	-27.13 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59573 GHz	-46.69 dBm	-21.69 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71685 GHz	-46.54 dBm	-21.54 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72326 GHz	-46.69 dBm	-6.69 dB

Date: 3.DEC.2024 16:51:26

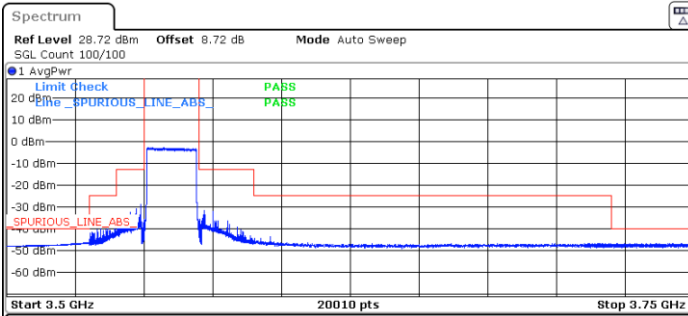


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51744 GHz	-47.68 dBm	-7.68 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53492 GHz	-45.35 dBm	-20.35 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54844 GHz	-41.83 dBm	-28.83 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54989 GHz	-50.57 dBm	-37.57 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.56895 GHz	16.38 dBm	-13.62 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57004 GHz	-26.99 dBm	-13.99 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57231 GHz	-26.48 dBm	-13.48 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59153 GHz	-40.27 dBm	-15.27 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71621 GHz	-46.73 dBm	-21.73 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73326 GHz	-46.70 dBm	-6.70 dB

Date: 3.DEC.2024 16:58:33

Lowest Channel / FullIRB

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52998 GHz	-46.46 dBm	-6.46 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53910 GHz	-38.10 dBm	-13.10 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54879 GHz	-28.87 dBm	-15.87 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54996 GHz	-35.83 dBm	-22.83 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55305 GHz	-2.90 dBm	-32.90 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57025 GHz	-35.83 dBm	-22.83 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57189 GHz	-31.67 dBm	-18.67 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59597 GHz	-43.82 dBm	-18.82 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71199 GHz	-46.80 dBm	-21.80 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74250 GHz	-46.76 dBm	-6.76 dB

Date: 3.DEC.2024 17:05:40

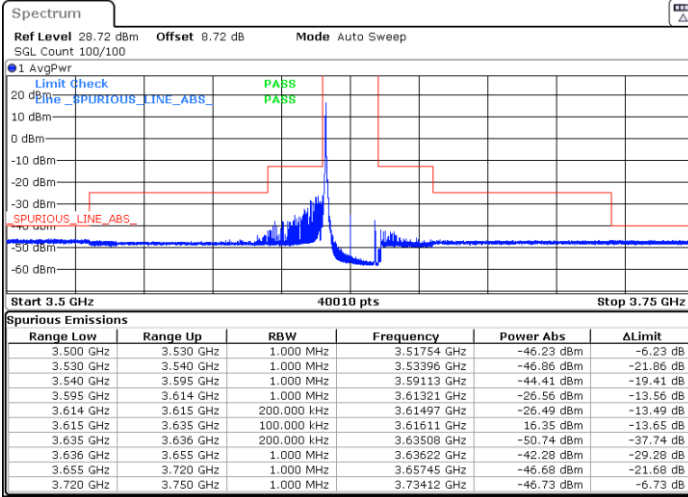


LTE Band 48 / 20MHz

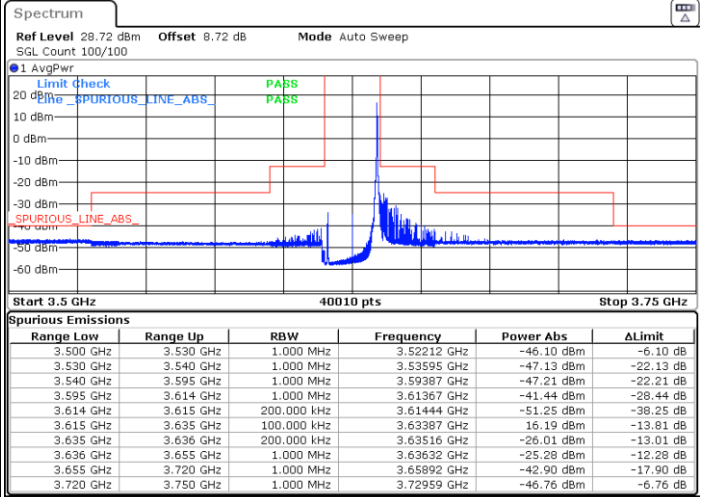
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



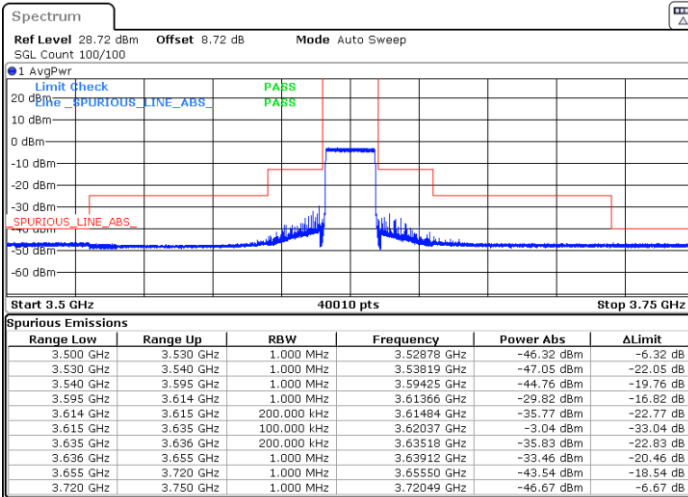
Date: 3.DEC.2024 17:14:06



Date: 3.DEC.2024 17:21:11

Middle Channel / Full

N/A



Date: 3.DEC.2024 17:28:16

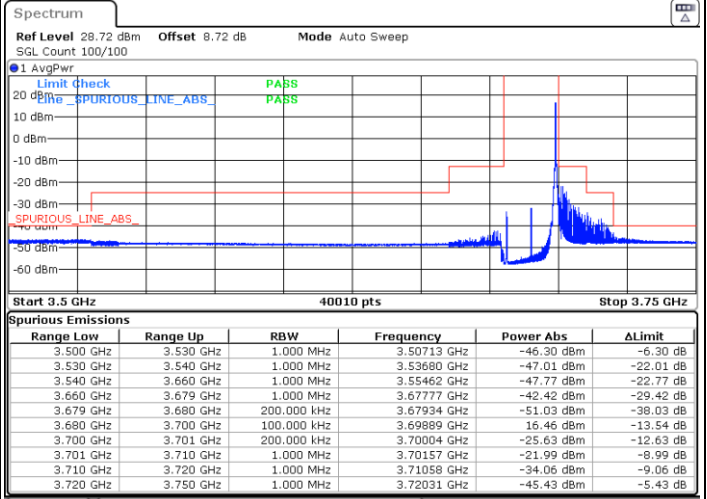
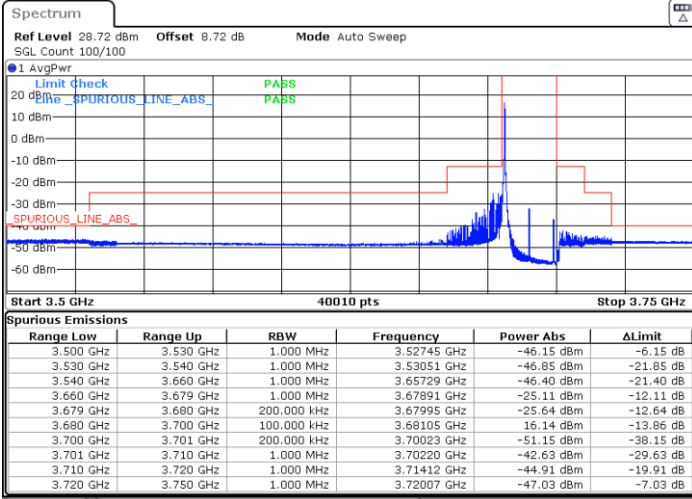


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

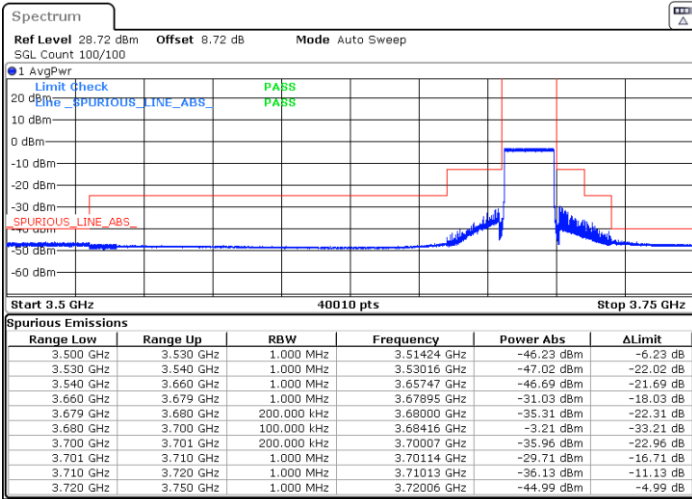


Date: 3.DEC.2024 17:36:45

Date: 3.DEC.2024 17:43:52

Highest Channel / FullIRB

N/A



Date: 3.DEC.2024 17:51:01



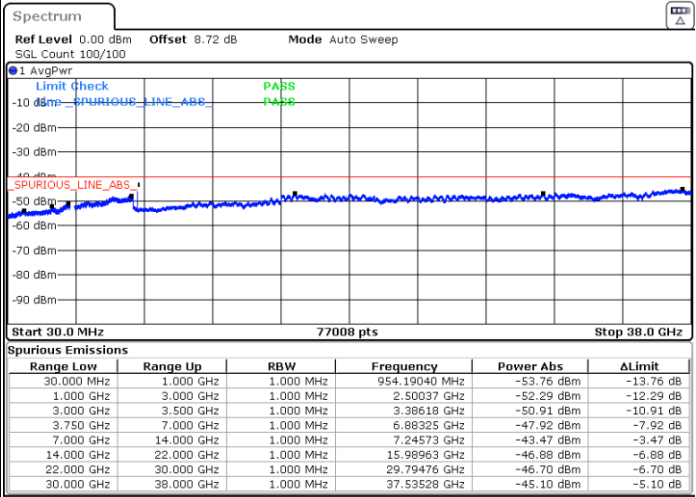
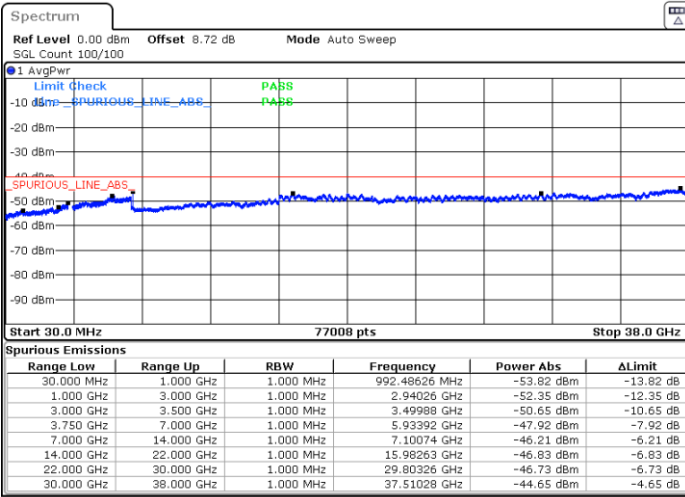
# Conducted Spurious Emission

## LTE Band 48 / 5MHz

### QPSK / 1RB0

#### Lowest Channel

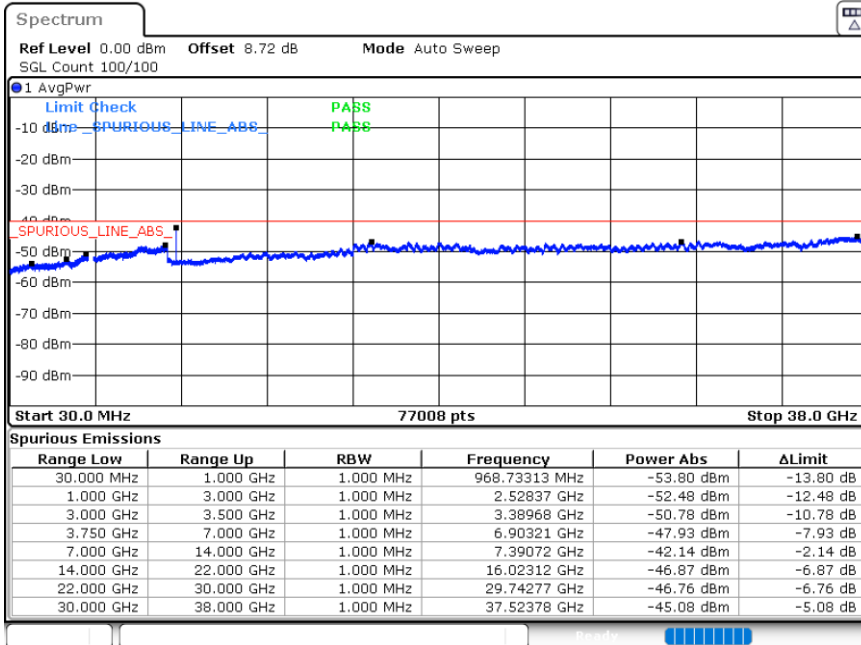
#### Middle Channel



Date: 3.DEC.2024 13:17:04

Date: 3.DEC.2024 13:42:13

#### Highest Channel



Date: 3.DEC.2024 14:04:43

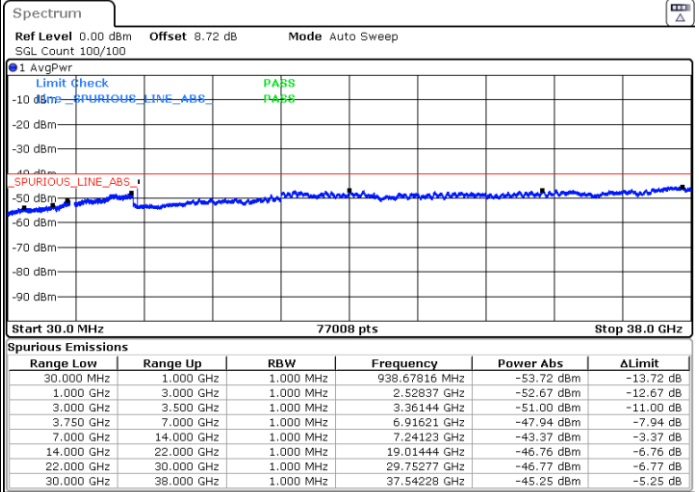
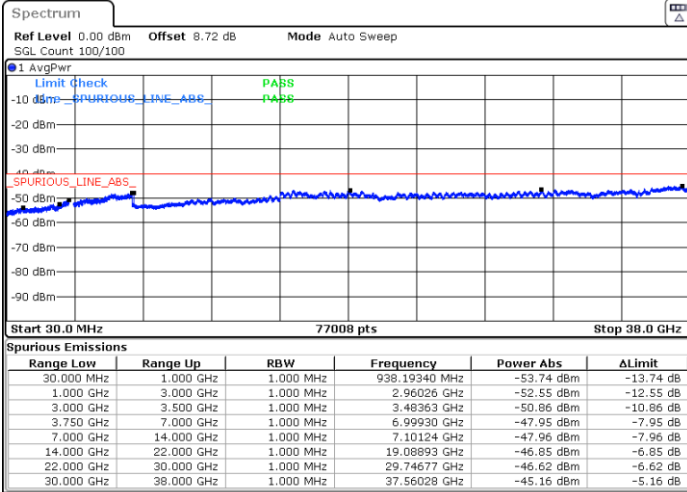


LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

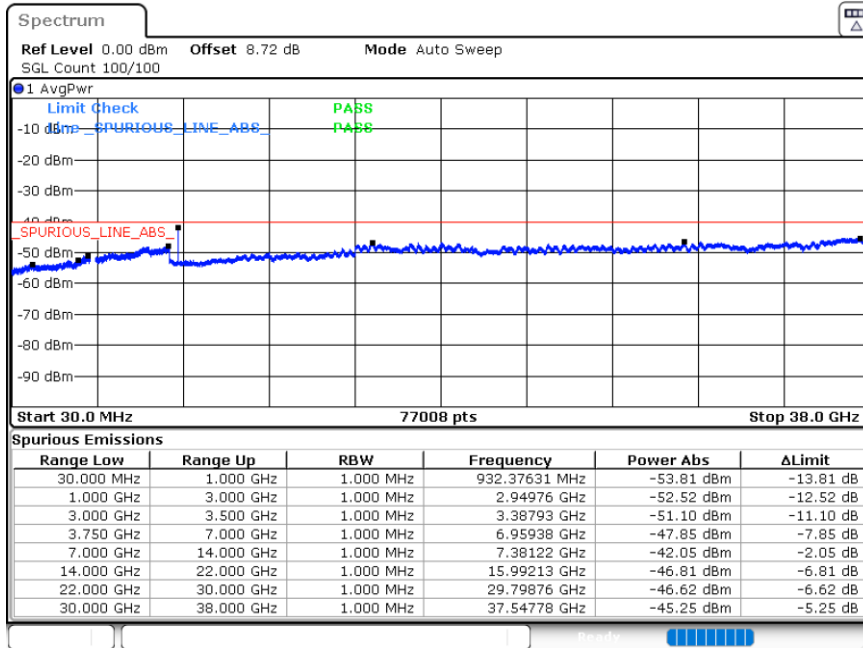
Middle Channel



Date: 3.DEC.2024 14:27:22

Date: 3.DEC.2024 14:50:02

Highest Channel



Date: 3.DEC.2024 15:12:33

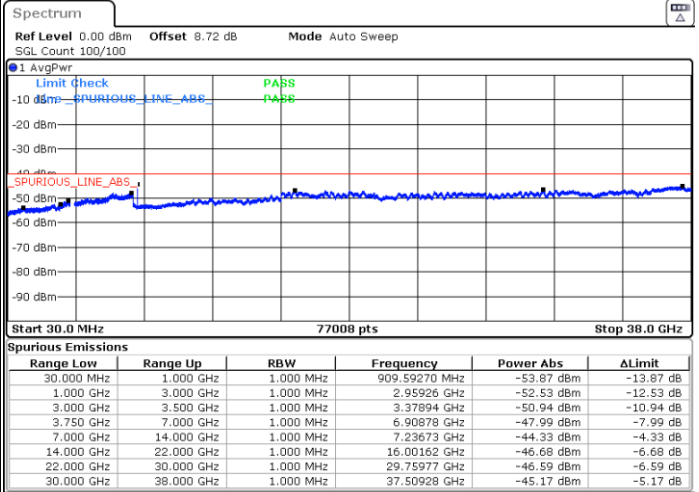
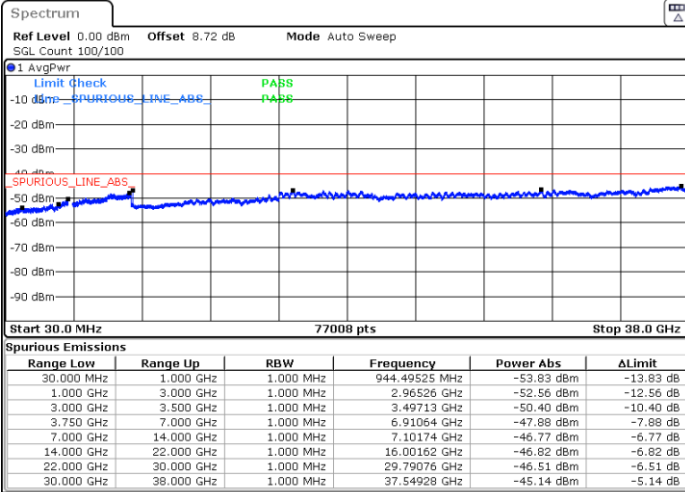


LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

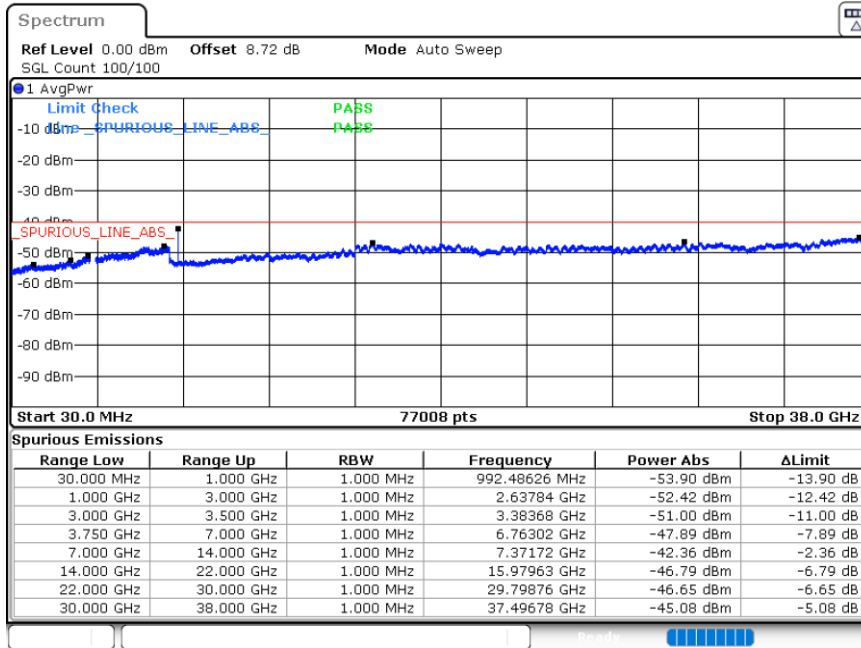
Middle Channel



Date: 3.DEC.2024 15:35:16

Date: 3.DEC.2024 15:59:01

Highest Channel



Date: 3.DEC.2024 16:21:32

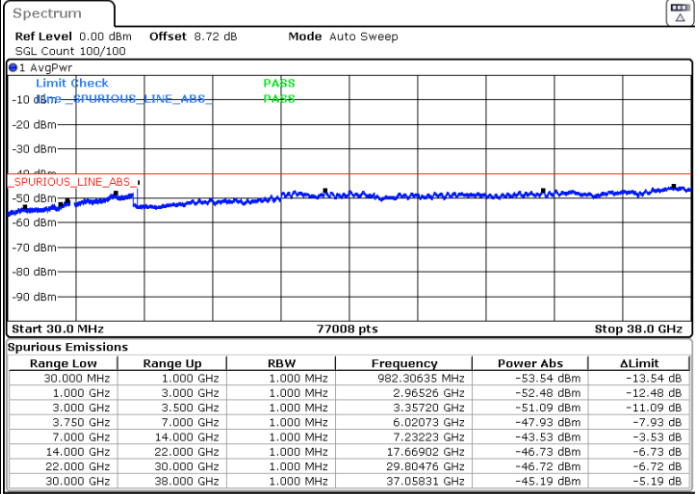
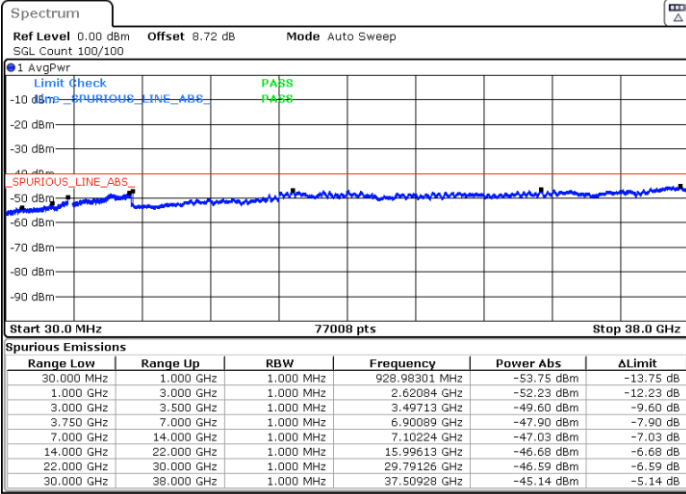


LTE Band 48 / 20MHz

QPSK / 1RB0

Lowest Channel

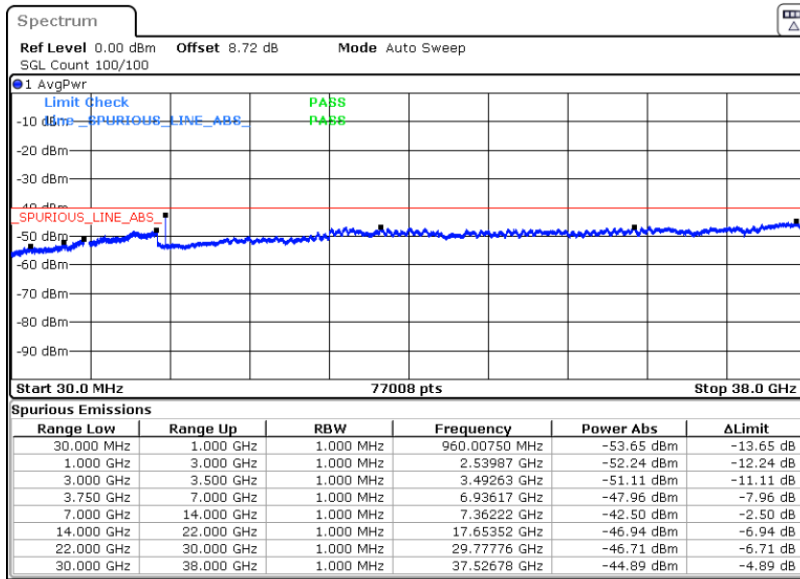
Middle Channel



Date: 3.DEC.2024 16:44:18

Date: 3.DEC.2024 17:07:00

Highest Channel



Date: 3.DEC.2024 17:29:36



**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	0.0038	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0094	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0062	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0073	
-20	Normal Voltage	0.0056	
-30	Normal Voltage	0.0049	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

**Note:**

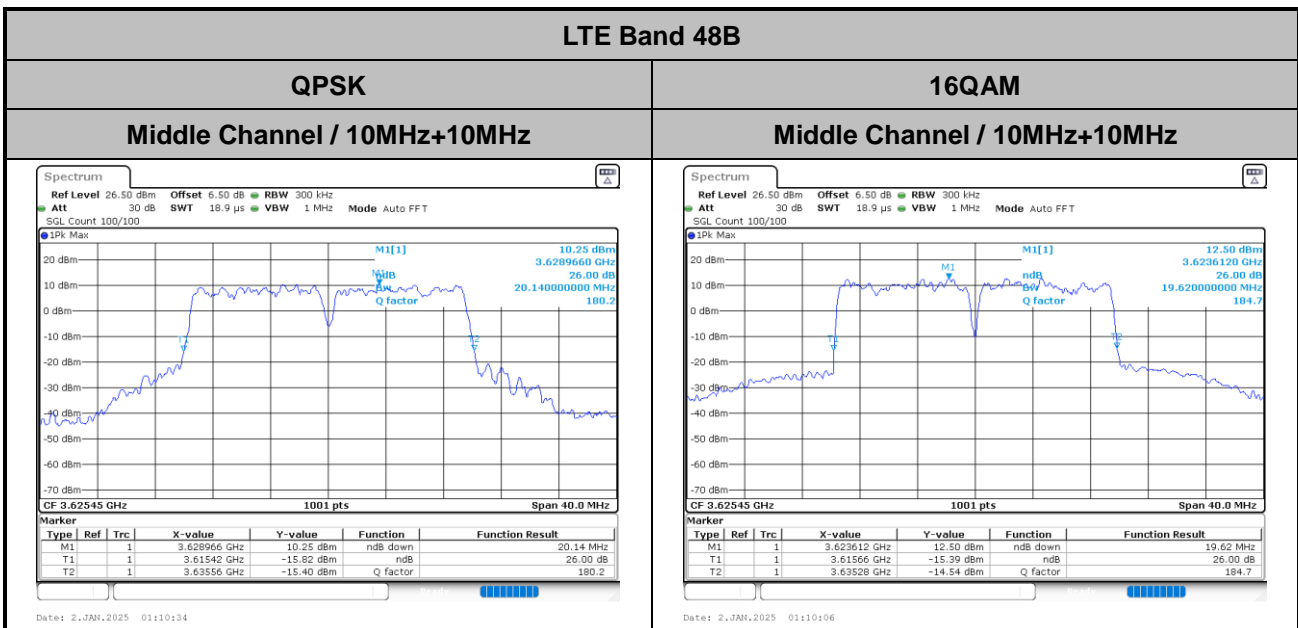
1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.53 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 48B

## 26dB Bandwidth

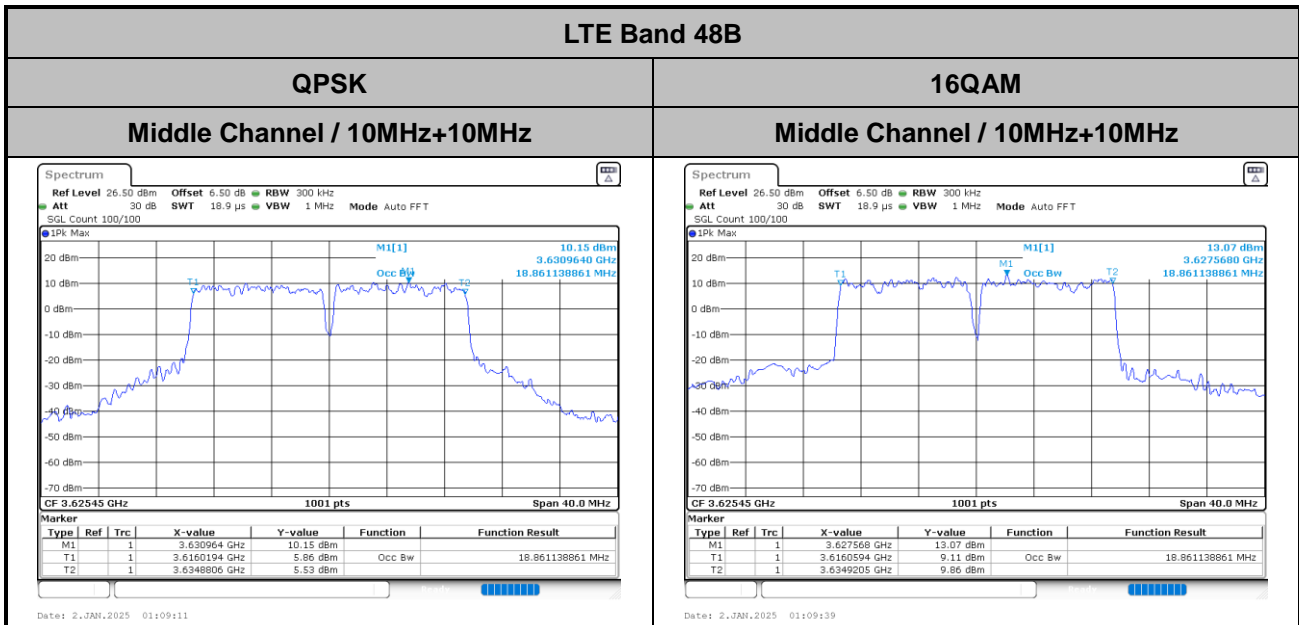
Mode	LTE Band 48B : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	10MHz+10MHz	10MHz+10MHz
Middle CH	20.14	19.62





# Occupied Bandwidth

Mode	LTE Band 48B : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	10MHz+10MHz	10MHz+10MHz
Middle CH	18.86	18.86





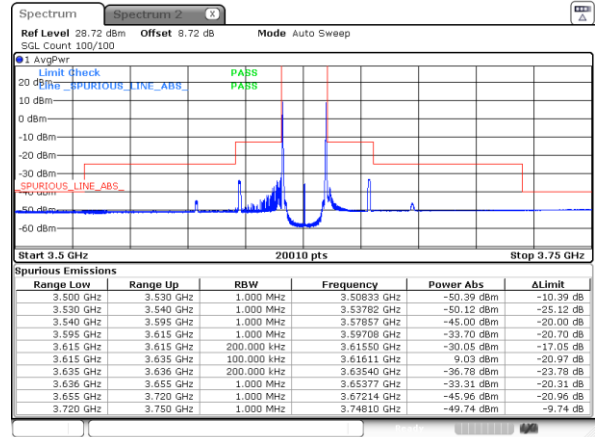
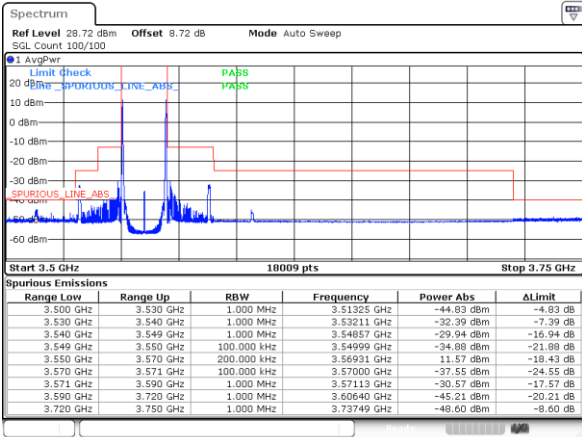
# Conducted Band Edge

## LTE Band 48B / 10MHz+10MHz

### QPSK

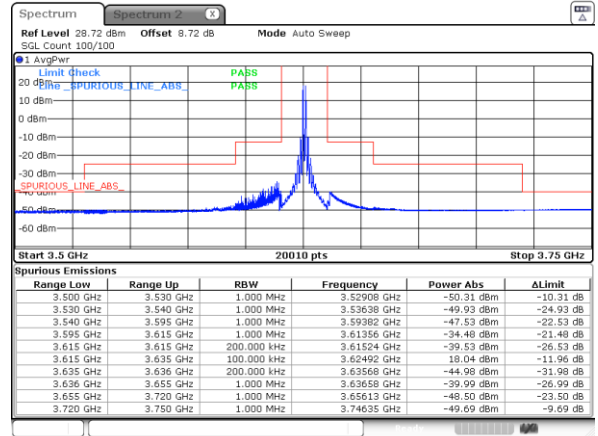
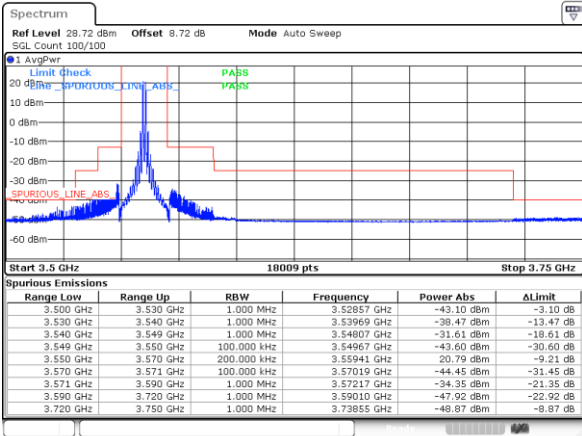
#### Lowest Band Edge / 1RB0 and 1RB49

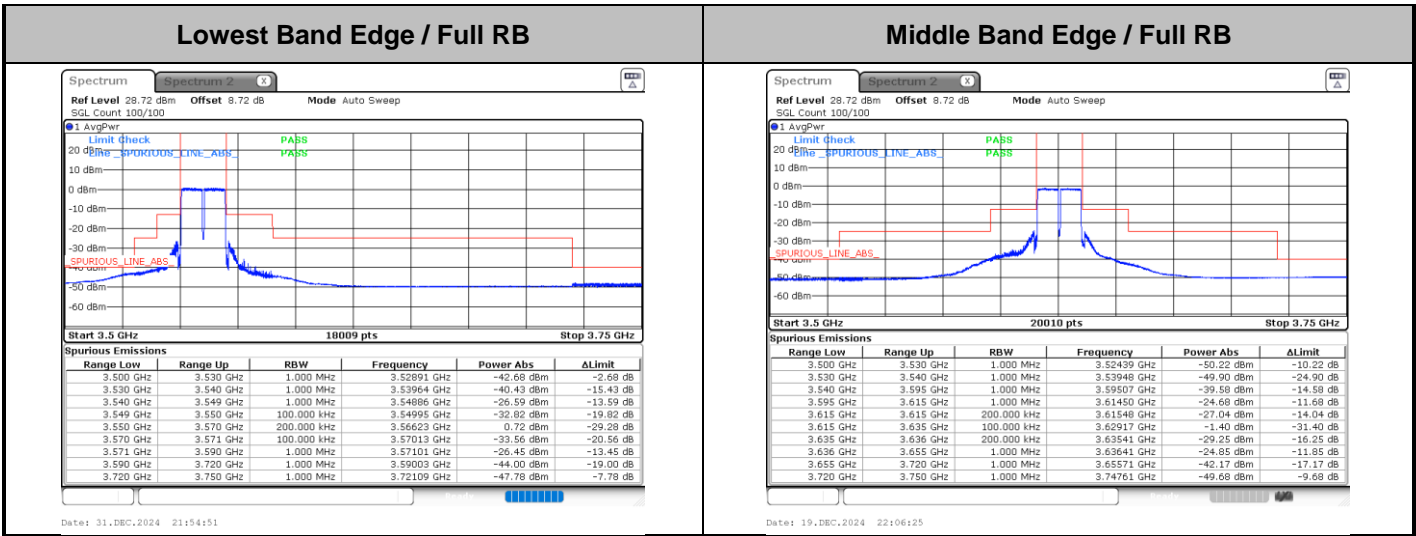
#### Middle Band Edge / 1RB0 and 1RB49



#### Lowest Band Edge / 1RB49 and 1RB0

#### Middle Band Edge / 1RB49 and 1RB0



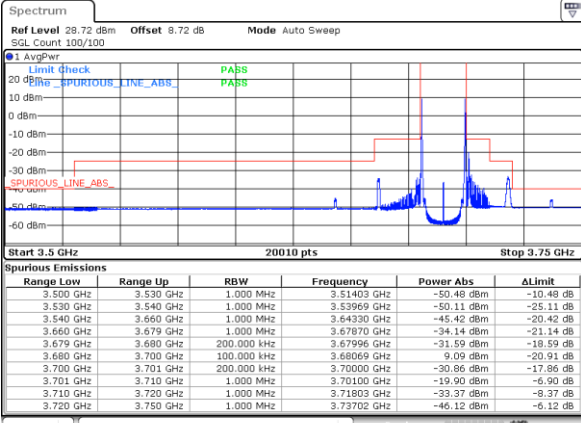




LTE Band 48B / 10MHz+10MHz

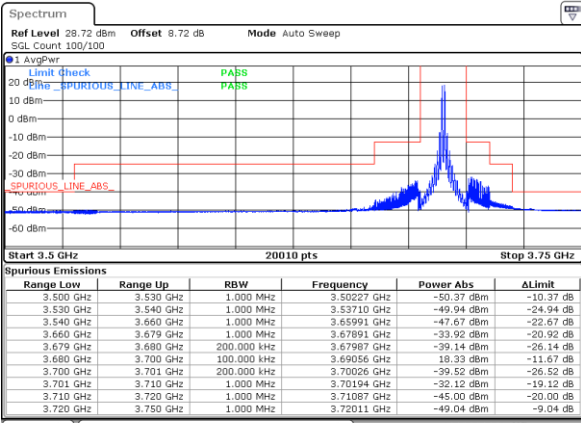
QPSK

Highest Band Edge / 1RB0 and 1RB49



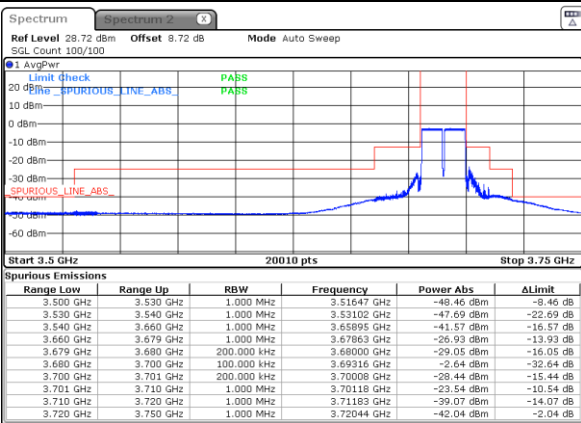
Date: 19, DEC, 2024 13:58:27

Highest Band Edge / 1RB49 and 1RB0



Date: 19, DEC, 2024 13:42:19

Highest Band Edge / Full RB



Date: 31, DEC, 2024 22:09:28

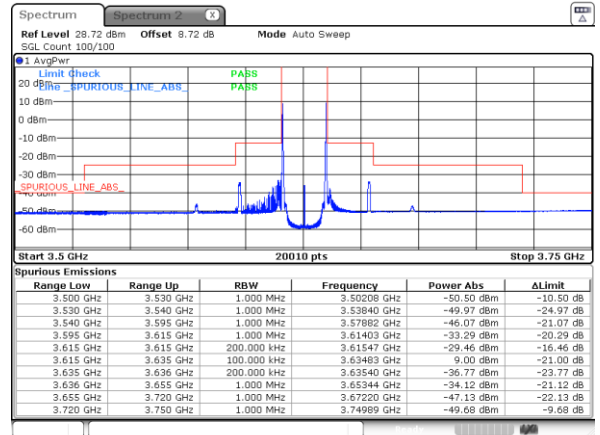
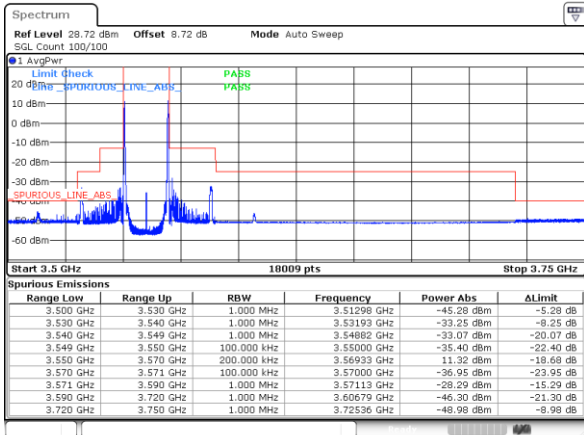


LTE Band 48B / 10MHz+10MHz

16QAM

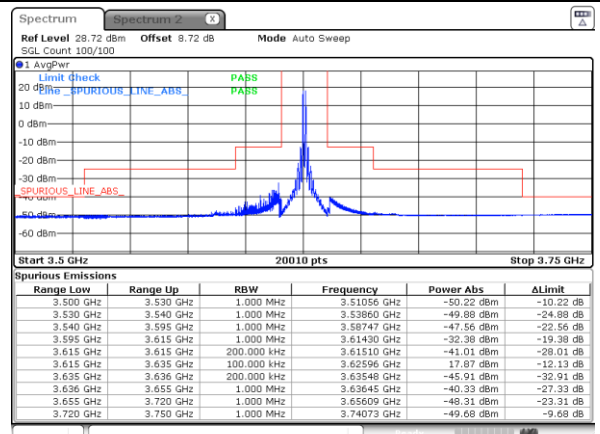
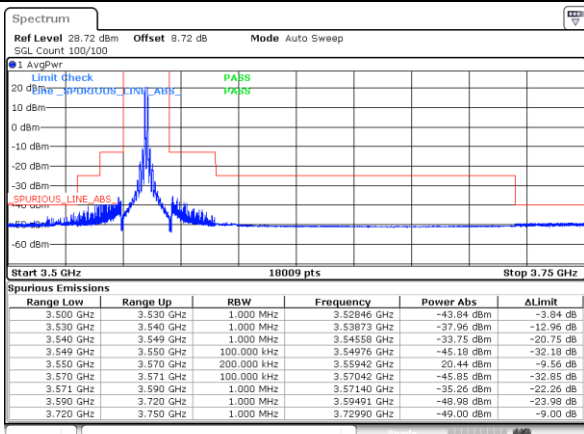
Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49



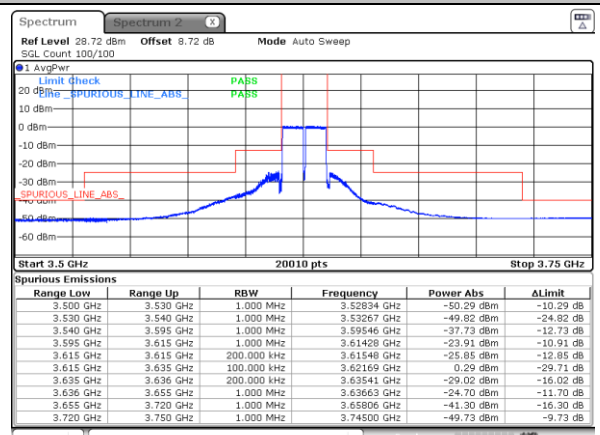
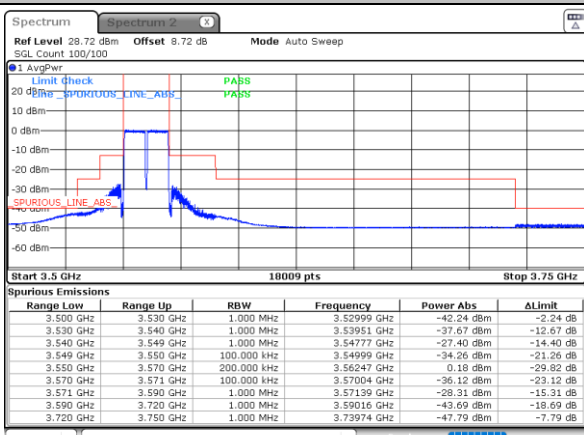
Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB

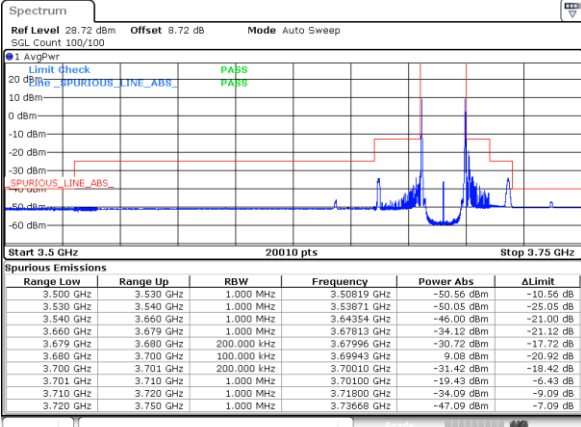




LTE Band 48B / 10MHz+10MHz

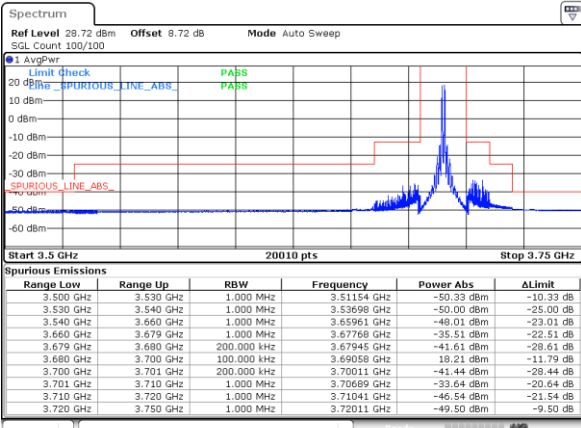
16QAM

Highest Band Edge / 1RB0 and 1RB49



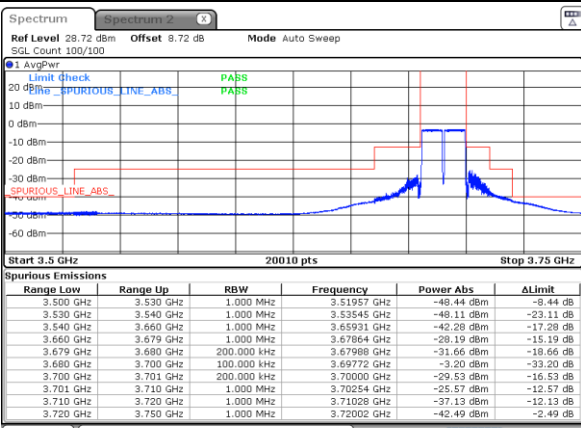
Date: 19, DEC, 2024 14:02:12

Highest Band Edge / 1RB49 and 1RB0



Date: 19, DEC, 2024 13:45:04

Highest Band Edge / Full RB



Date: 31, DEC, 2024 22:13:15

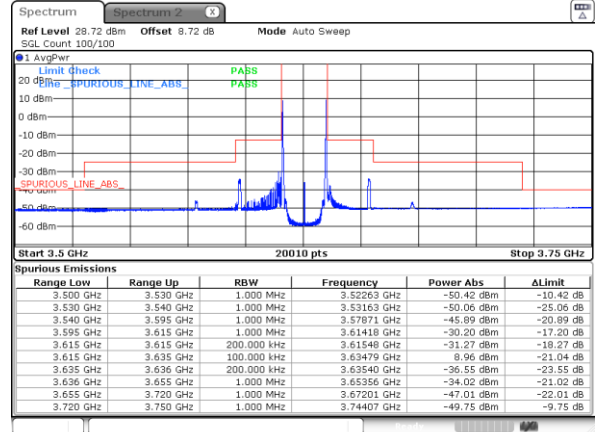
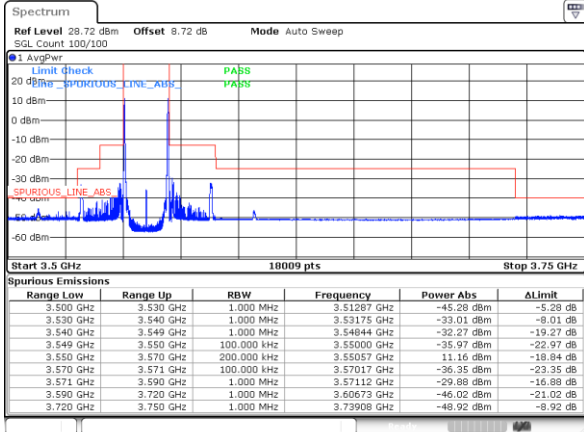


LTE Band 48B / 10MHz+10MHz

64QAM

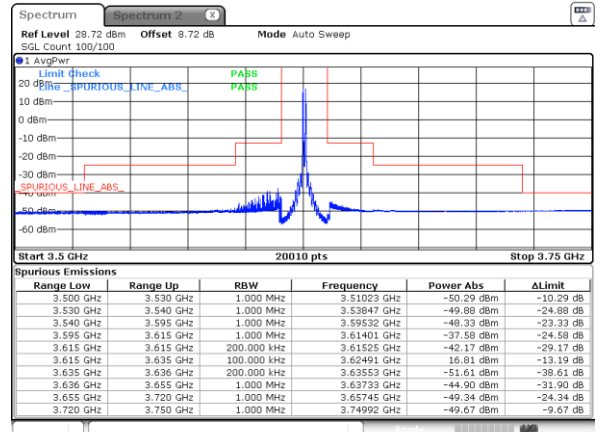
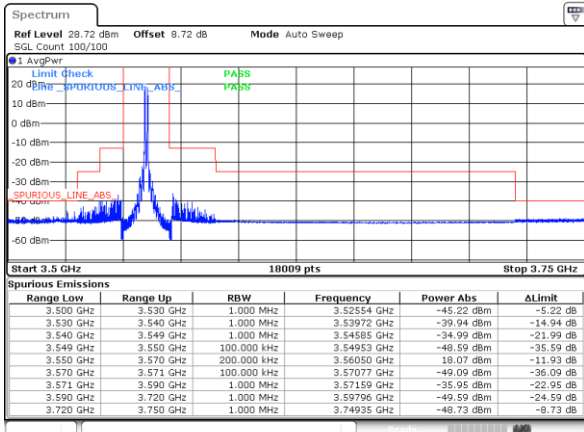
Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49



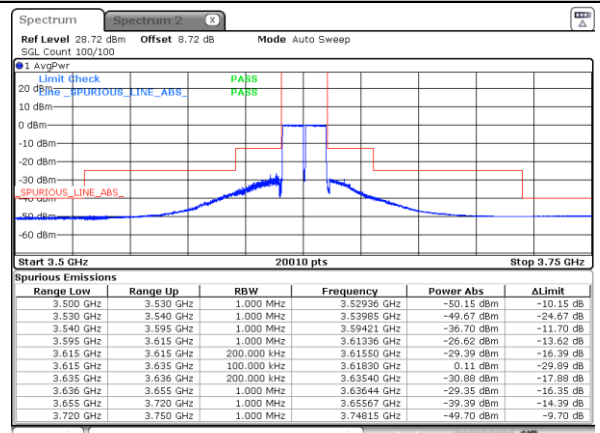
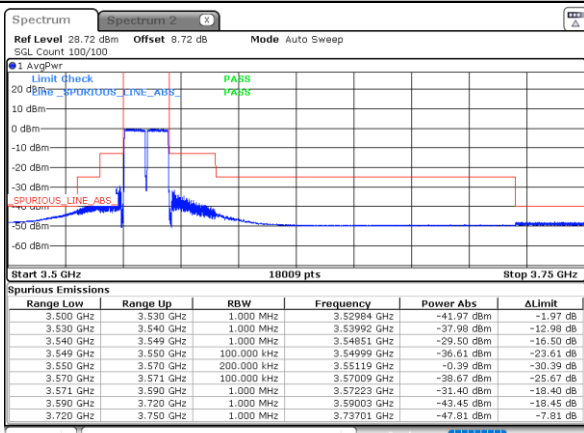
Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB

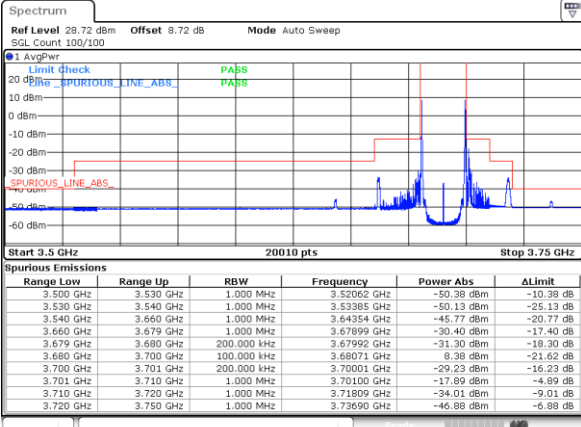




LTE Band 48B / 10MHz+10MHz

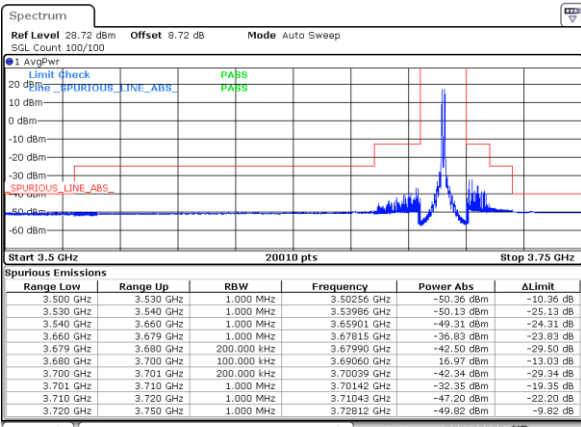
64QAM

Highest Band Edge / 1RB0 and 1RB49



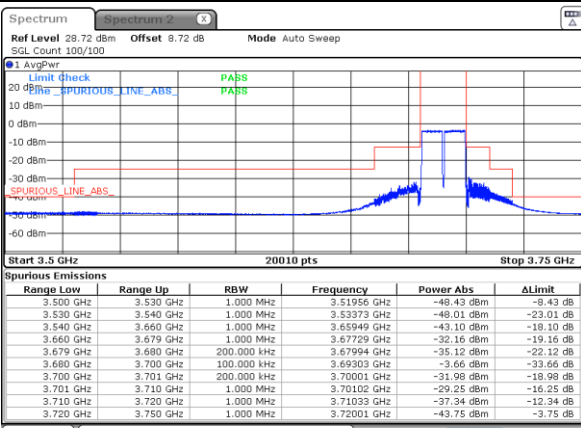
Date: 19. DEC. 2024 14:05:26

Highest Band Edge / 1RB49 and 1RB0



Date: 19. DEC. 2024 13:51:59

Highest Band Edge / Full RB



Date: 31. DEC. 2024 22:17:03

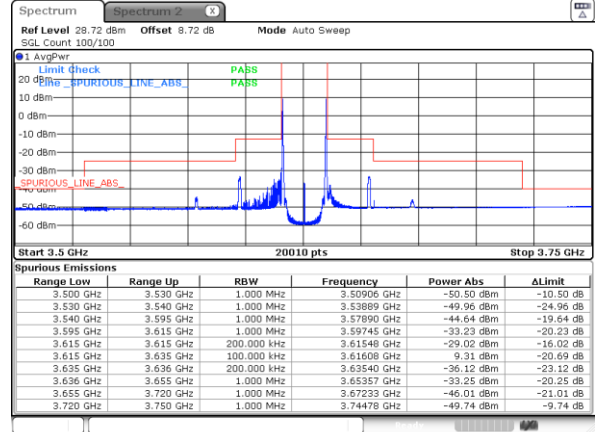
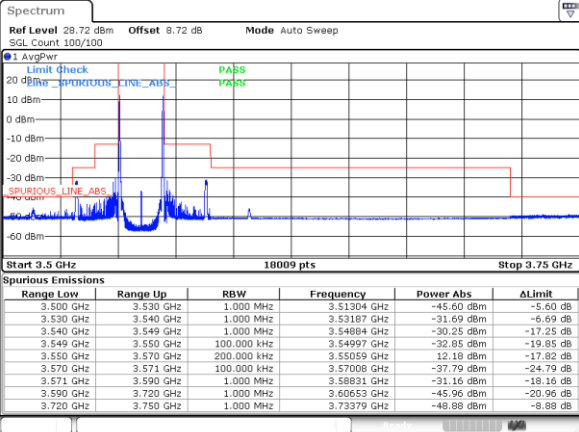


LTE Band 48B / 10MHz+10MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

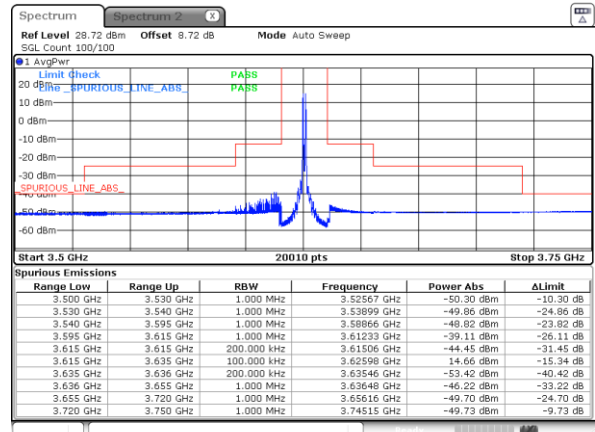
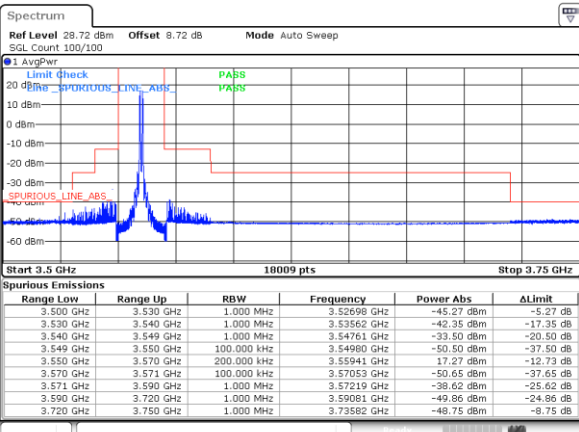


Date: 19, DEC, 2024 12:14:05

Date: 19, DEC, 2024 22:03:10

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

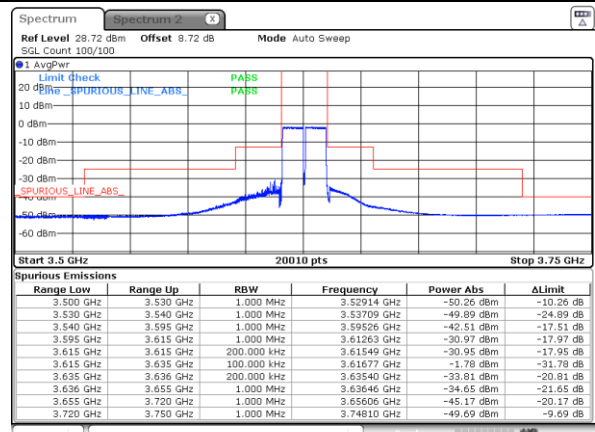
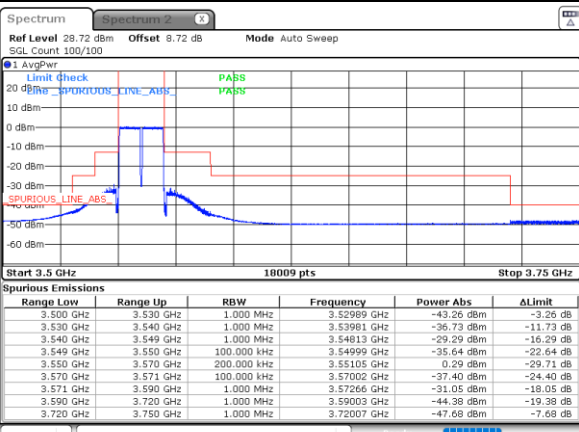


Date: 19, DEC, 2024 12:05:47

Date: 19, DEC, 2024 21:50:12

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 31, DEC, 2024 22:05:34

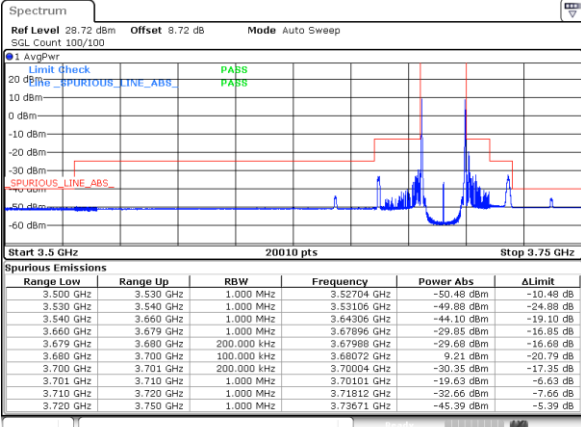
Date: 19, DEC, 2024 22:16:08



LTE Band 48B / 10MHz+10MHz

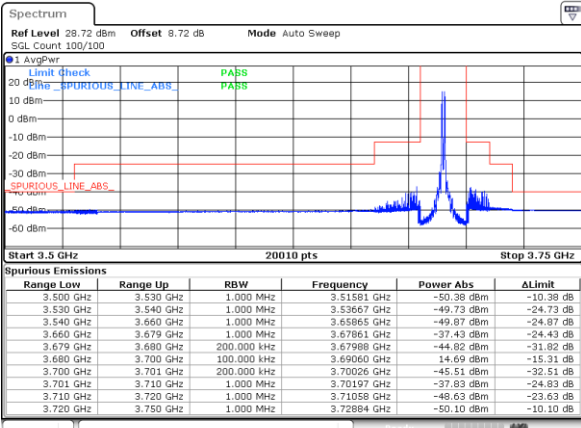
256QAM

Highest Band Edge / 1RB0 and 1RB49



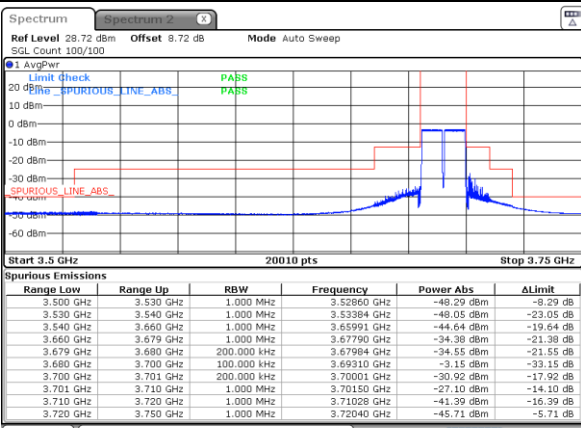
Date: 19, DEC, 2024 14:08:40

Highest Band Edge / 1RB49 and 1RB0



Date: 19, DEC, 2024 13:55:13

Highest Band Edge / Full RB



Date: 31, DEC, 2024 22:20:50