

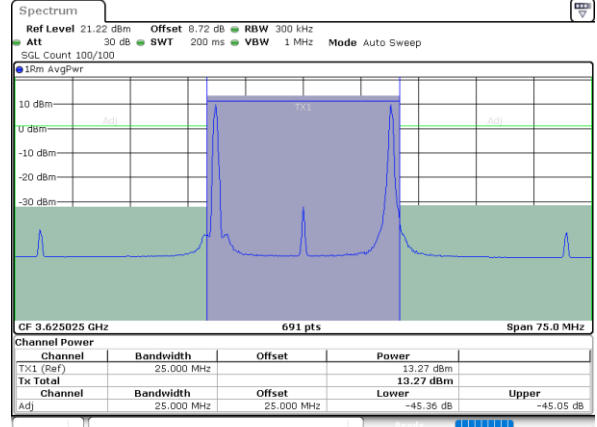
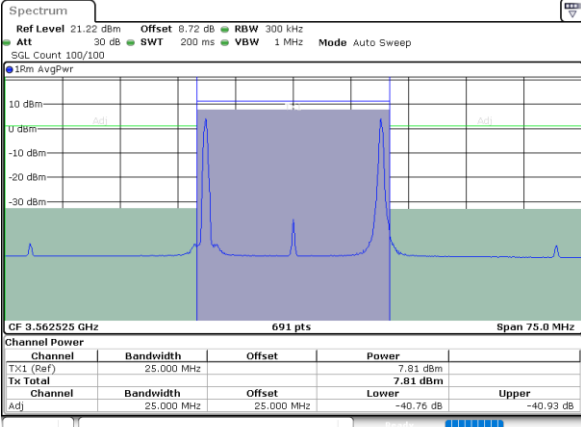


LTE Band 48C / 5MHz+20MHz

64QAM

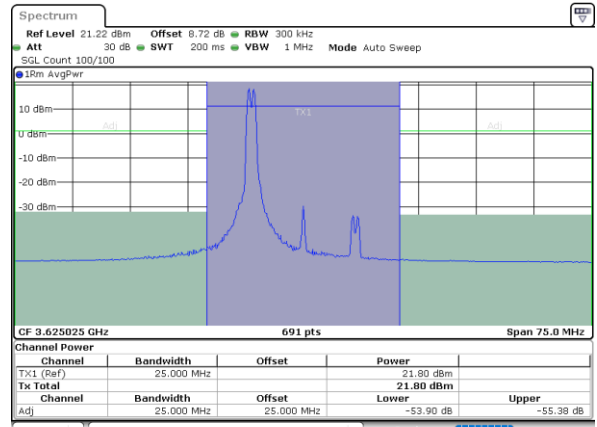
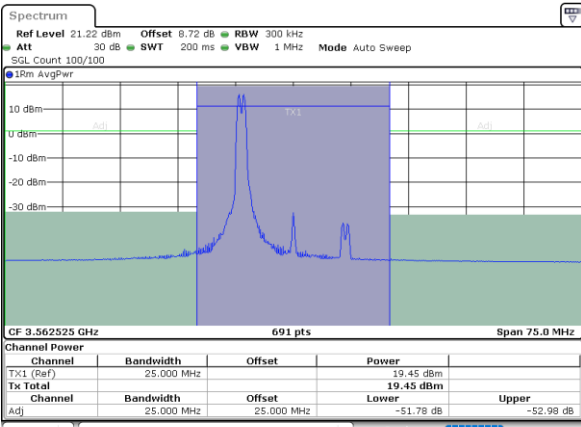
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



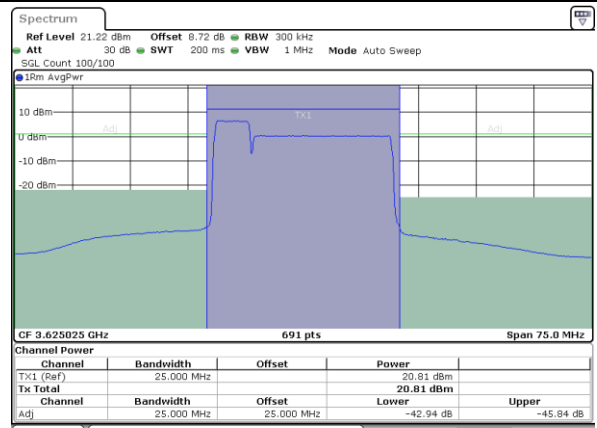
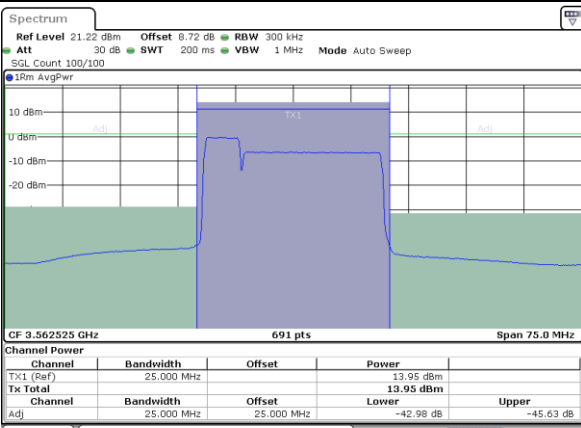
Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



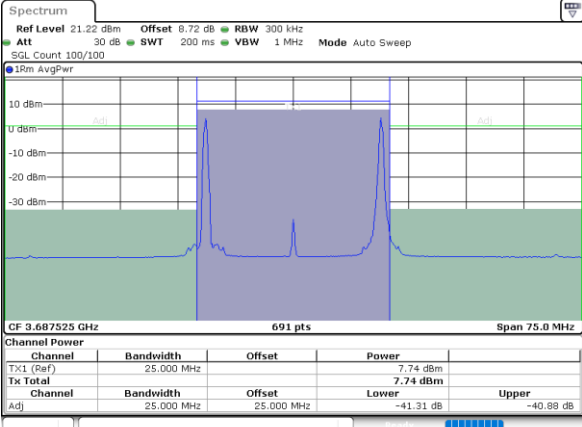


LTE Band 48C / 5MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

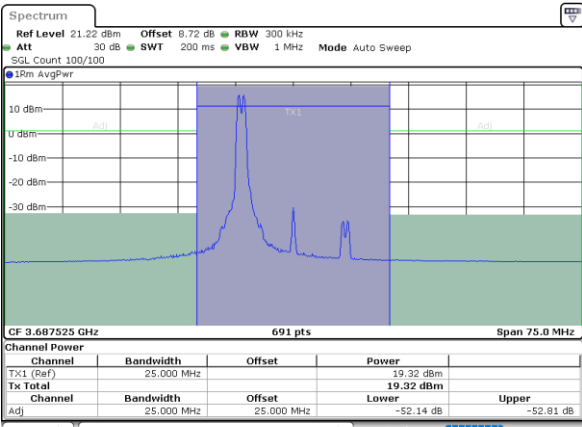
N/A



Date: 29, DEC, 2024 23:11:08

Highest Band Edge / 1RB24 and 1RB0

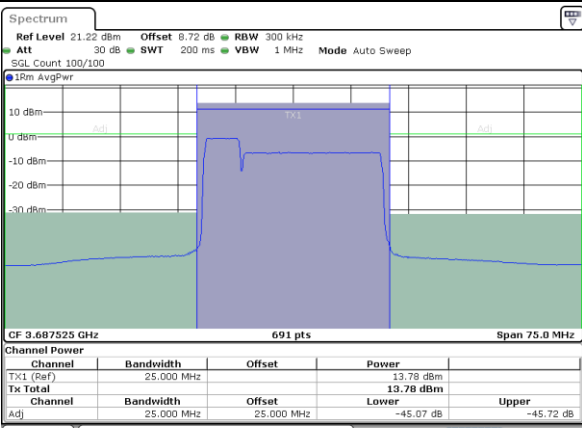
N/A



Date: 29, DEC, 2024 23:13:19

Highest Band Edge / Full RB

N/A



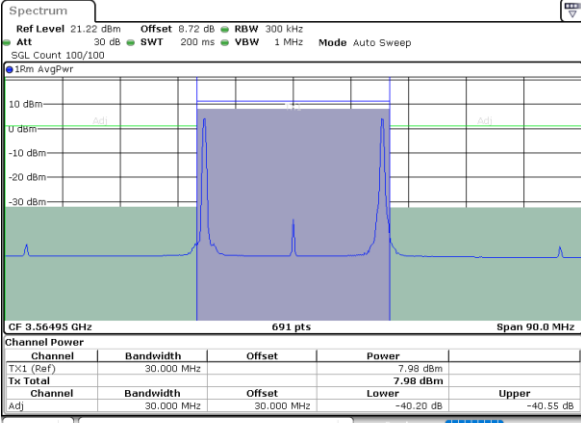
Date: 29, DEC, 2024 23:08:12



LTE Band 48C / 10MHz+20MHz

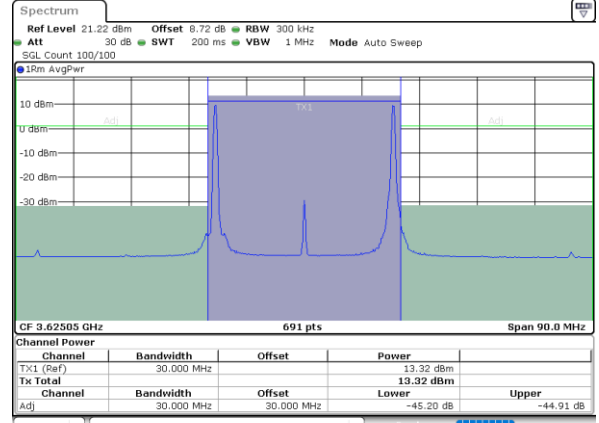
64QAM

Lowest Band Edge / 1RB0 and 1RB99



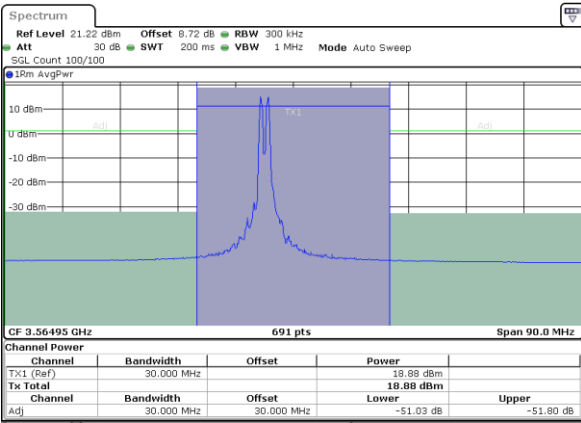
Date: 29, DEC, 2024 23:20:12

Middle Band Edge / 1RB0 and 1RB99



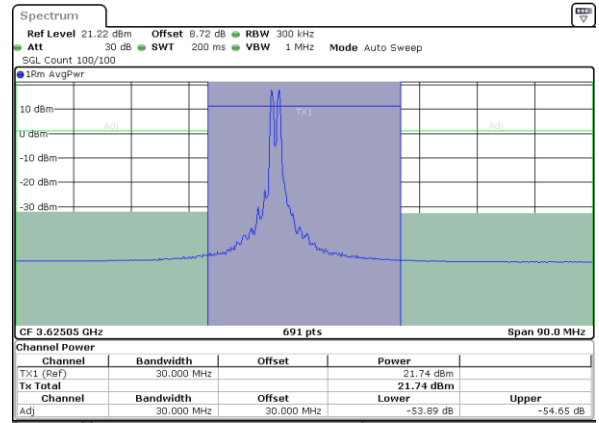
Date: 29, DEC, 2024 23:29:48

Lowest Band Edge / 1RB49 and 1RB0



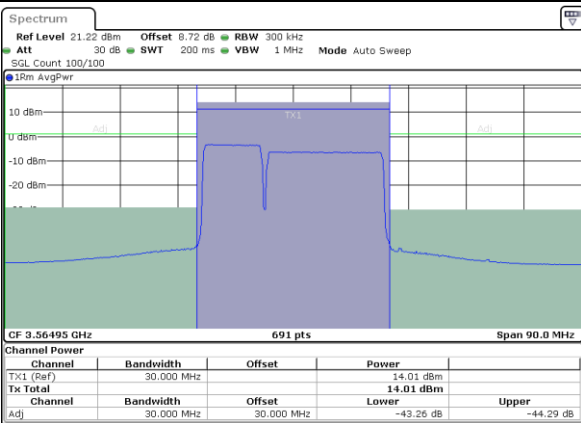
Date: 29, DEC, 2024 23:23:50

Middle Band Edge / 1RB49 and 1RB0



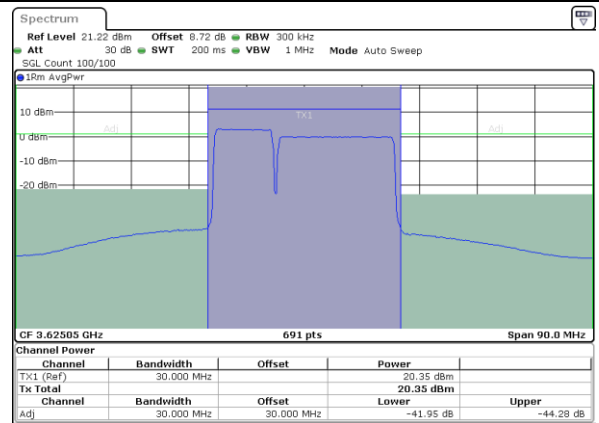
Date: 29, DEC, 2024 23:31:59

Lowest Band Edge / Full RB



Date: 29, DEC, 2024 23:18:01

Middle Band Edge / Full RB



Date: 29, DEC, 2024 23:26:52

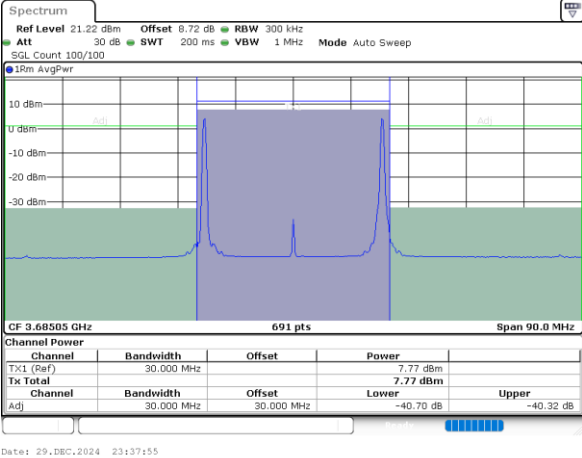


LTE Band 48C / 10MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

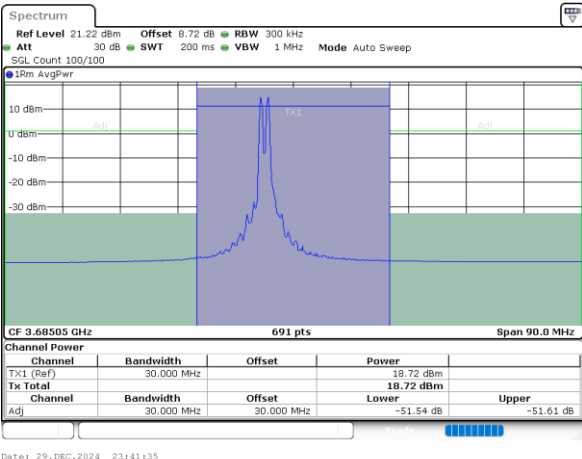
N/A



Date: 29, DEC, 2024 23:37:55

Highest Band Edge / 1RB49 and 1RB0

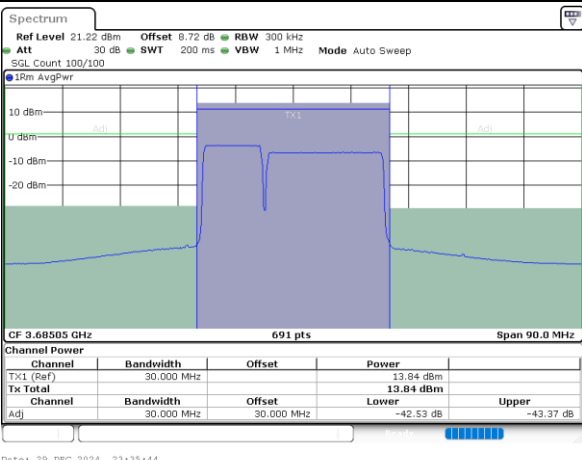
N/A



Date: 29, DEC, 2024 23:41:05

Highest Band Edge / Full RB

N/A



Date: 29, DEC, 2024 23:35:44

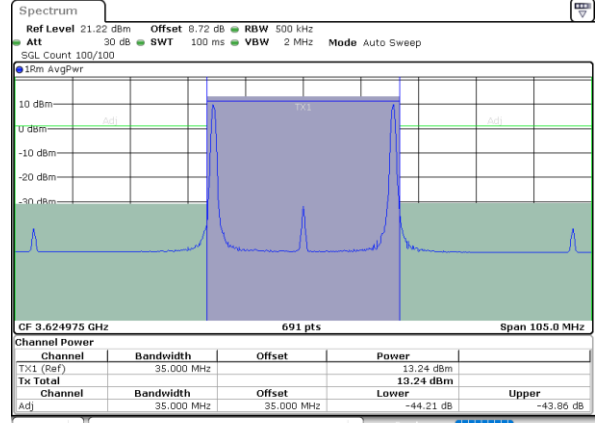
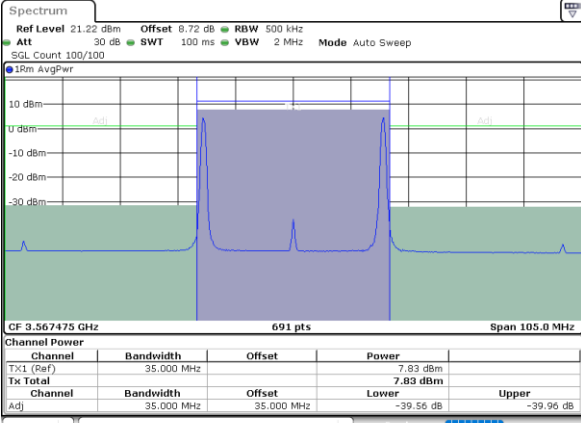


LTE Band 48C / 15MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

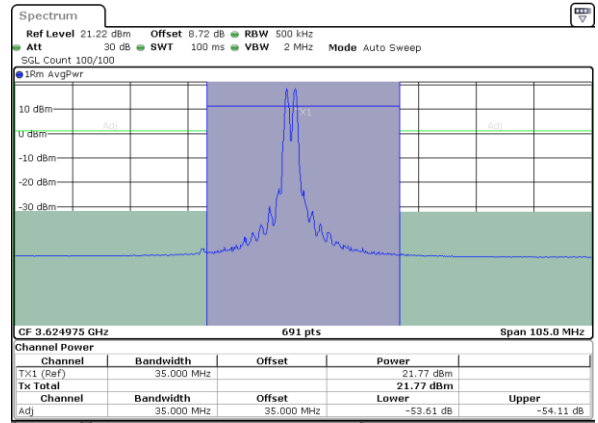
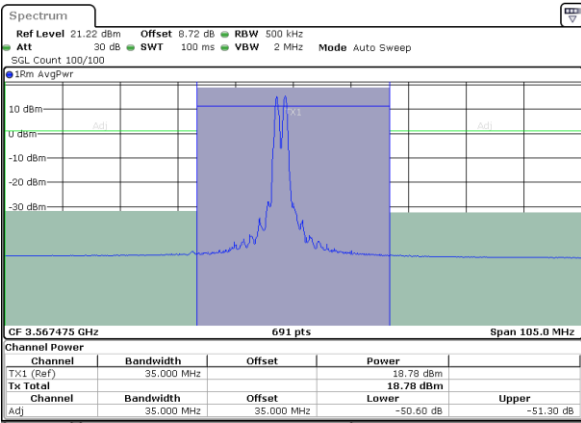


Date: 30, DEC, 2024 00:13:12

Date: 30, DEC, 2024 00:22:36

Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0

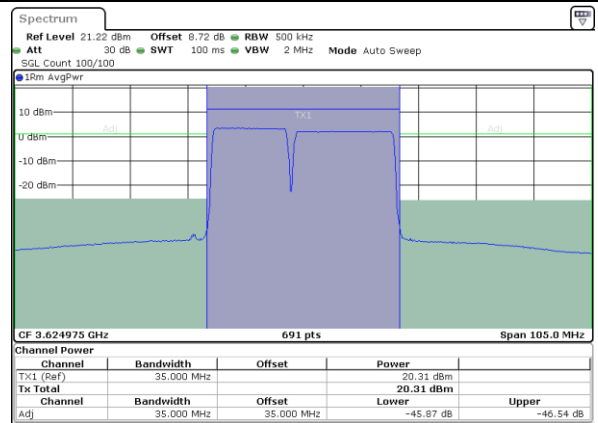
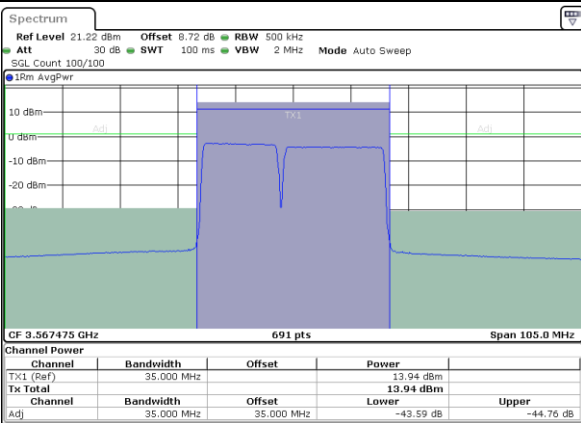


Date: 30, DEC, 2024 00:16:46

Date: 30, DEC, 2024 00:24:45

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 30, DEC, 2024 00:11:03

Date: 30, DEC, 2024 00:19:44

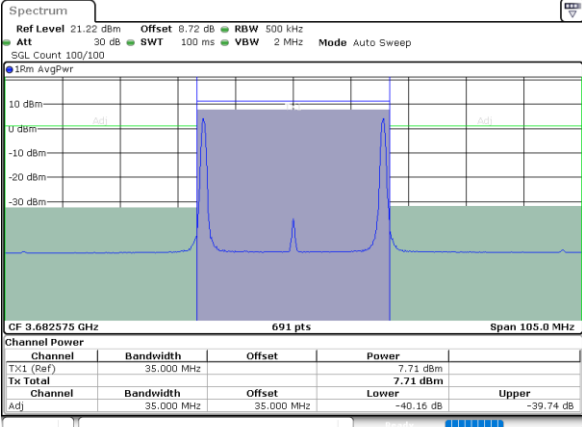


LTE Band 48C / 15MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

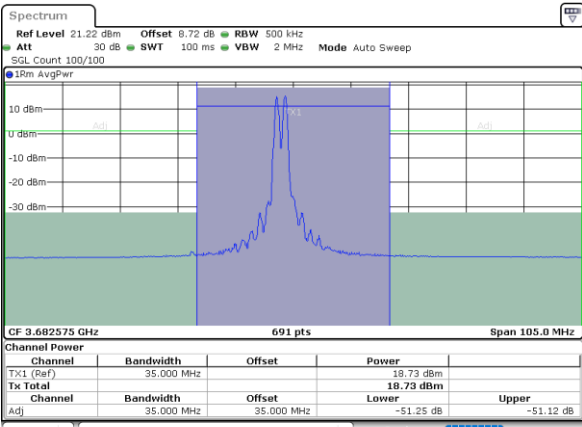
N/A



Date: 30, DEC, 2024 00:30:35

Highest Band Edge / 1RB74 and 1RB0

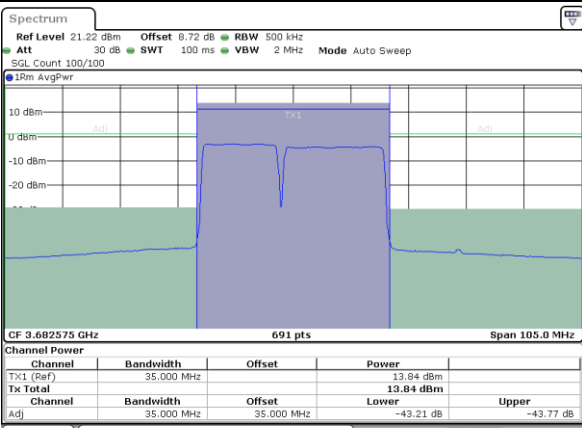
N/A



Date: 30, DEC, 2024 00:34:10

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 00:28:26

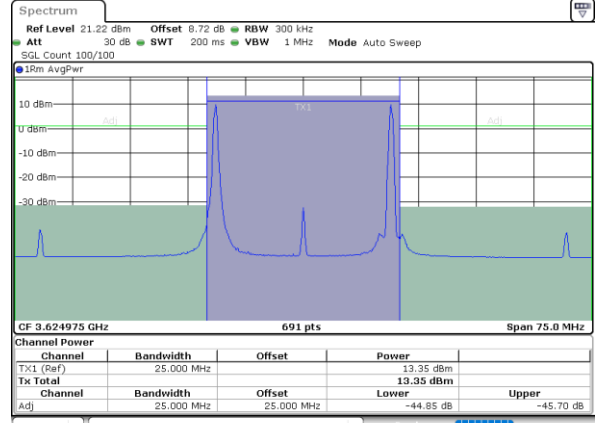
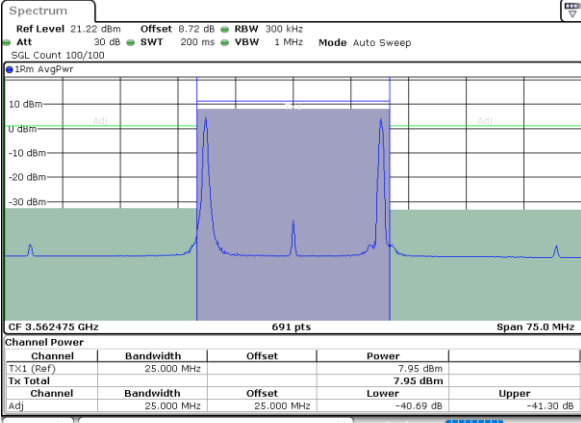


LTE Band 48C/ 20MHz+5MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB24

Middle Band Edge / 1RB0 and 1RB24

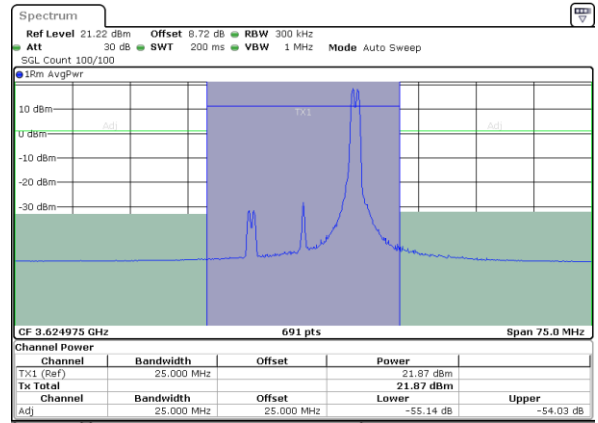
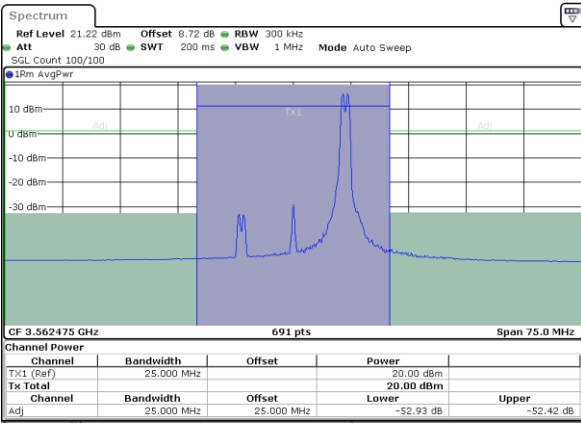


Date: 30, DEC, 2024 01:06:09

Date: 30, DEC, 2024 01:15:45

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

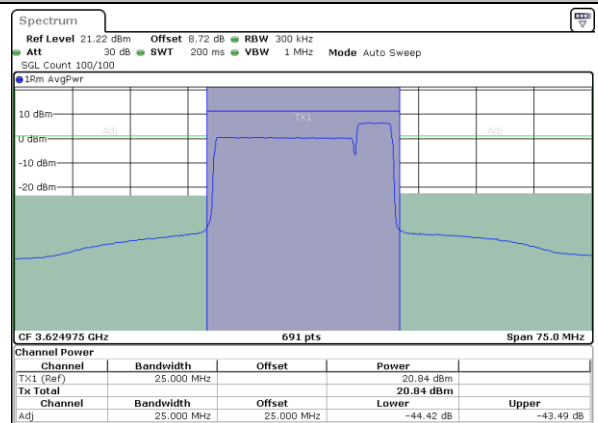
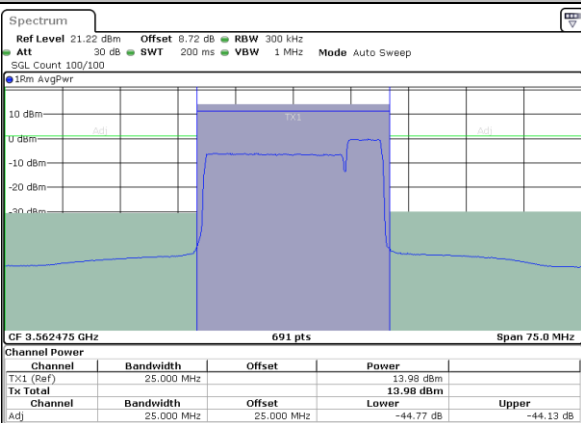


Date: 30, DEC, 2024 01:09:48

Date: 30, DEC, 2024 01:17:56

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 30, DEC, 2024 01:03:57

Date: 30, DEC, 2024 01:12:50

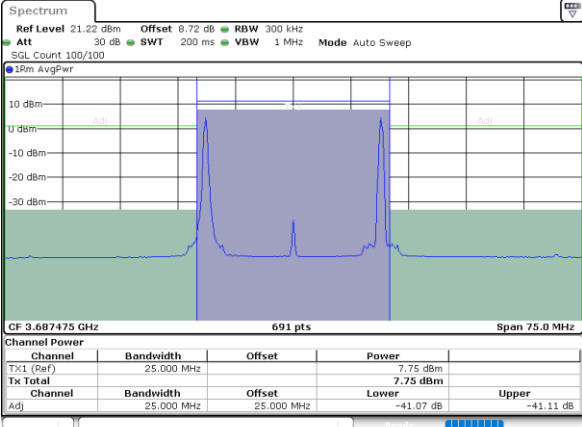


LTE Band 48C / 20MHz+5MHz

64QAM

Highest Band Edge / 1RB0 and 1RB24

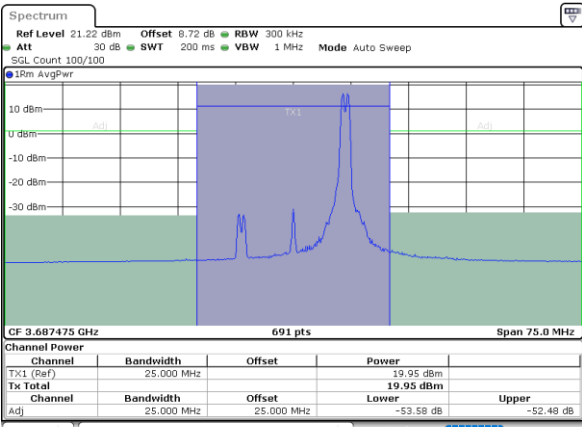
N/A



Date: 30, DEC, 2024 01:23:54

Highest Band Edge / 1RB99 and 1RB0

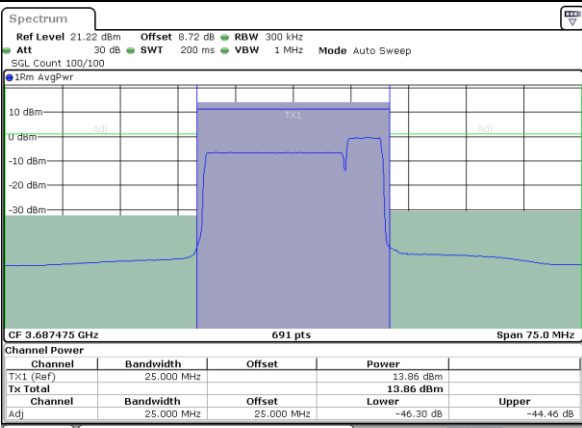
N/A



Date: 30, DEC, 2024 01:27:33

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 01:21:42

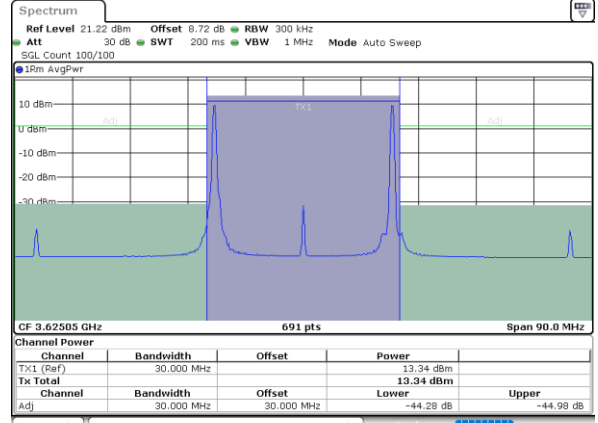
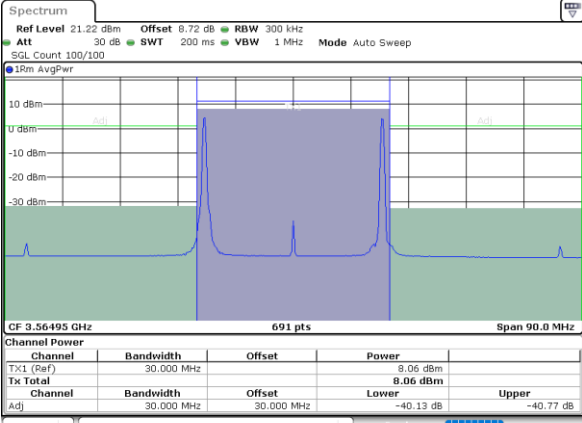


LTE Band 48C / 20MHz+10MHz

64QAM

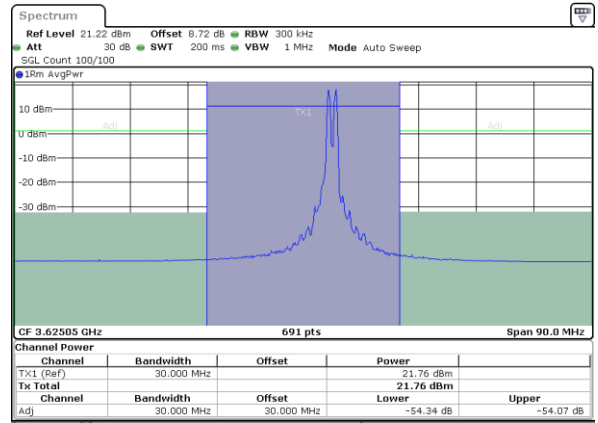
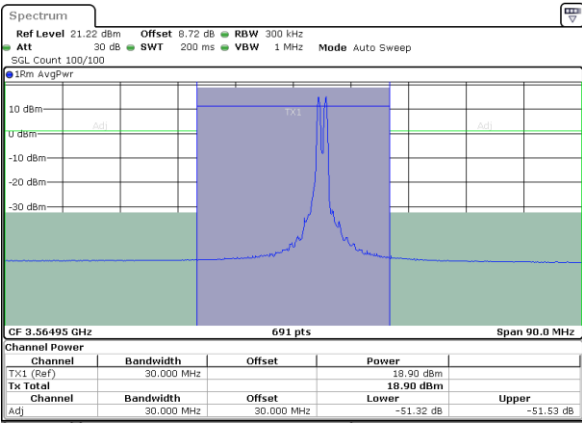
Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49



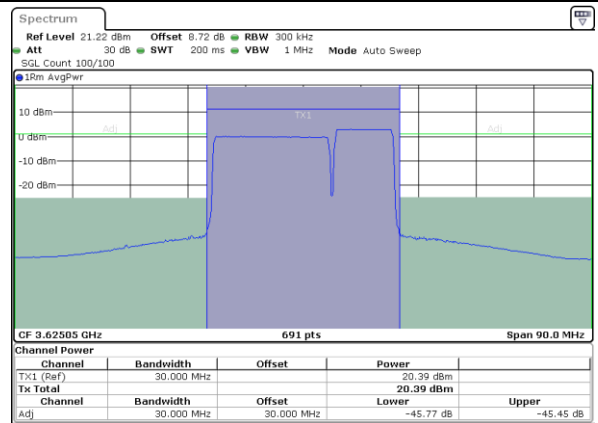
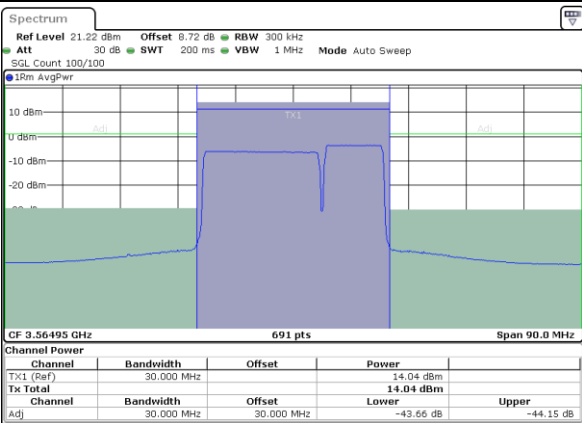
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



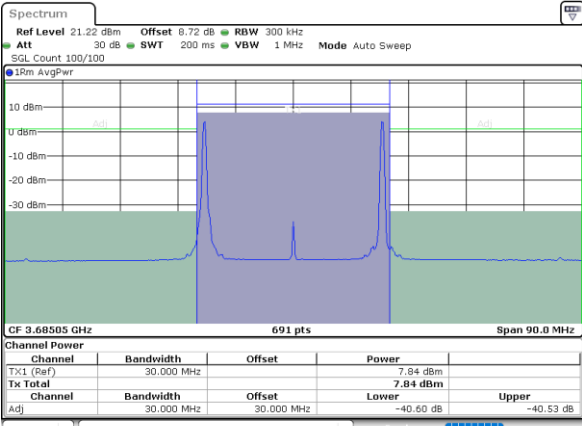


LTE Band 48C / 20MHz+10MHz

64QAM

Highest Band Edge / 1RB0 and 1RB49

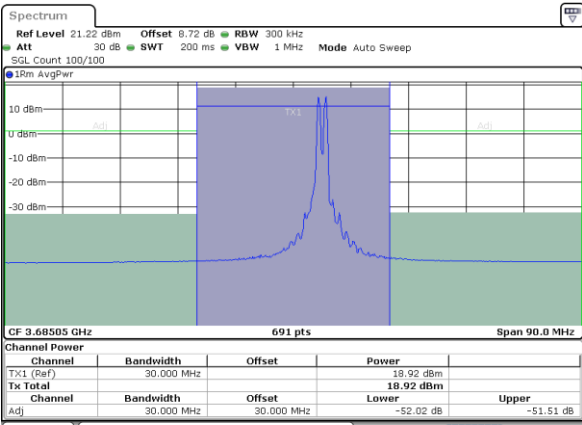
N/A



Date: 30, DEC, 2024 01:50:33

Highest Band Edge / 1RB99 and 1RB0

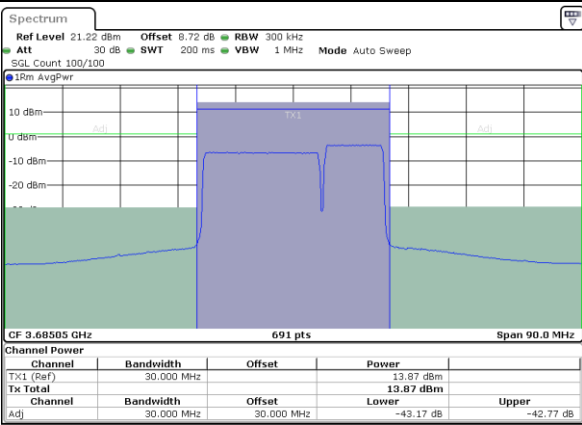
N/A



Date: 30, DEC, 2024 01:54:12

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 01:48:22

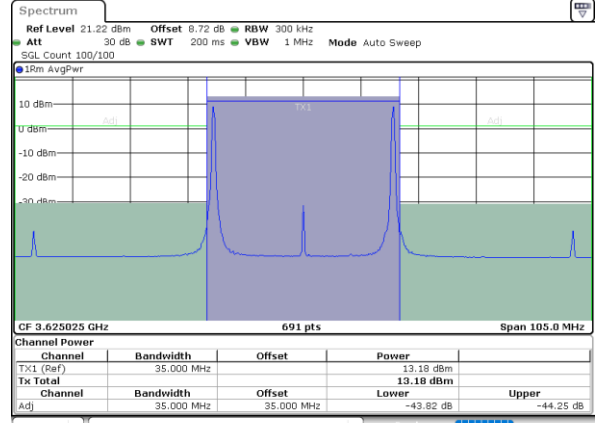
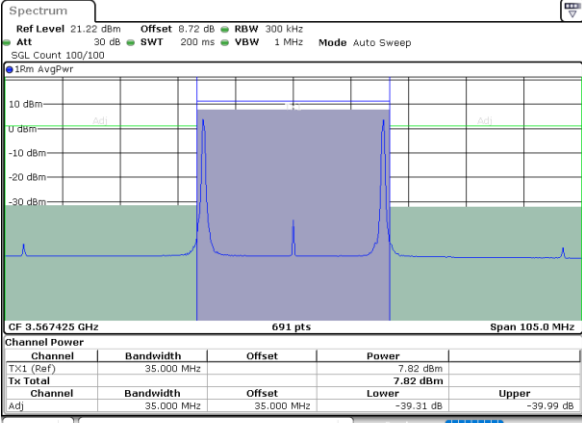


LTE Band 48C / 20MHz+15MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB74

Middle Band Edge / 1RB0 and 1RB74

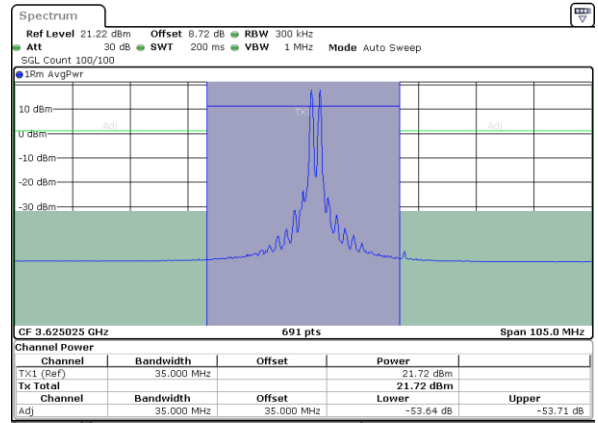
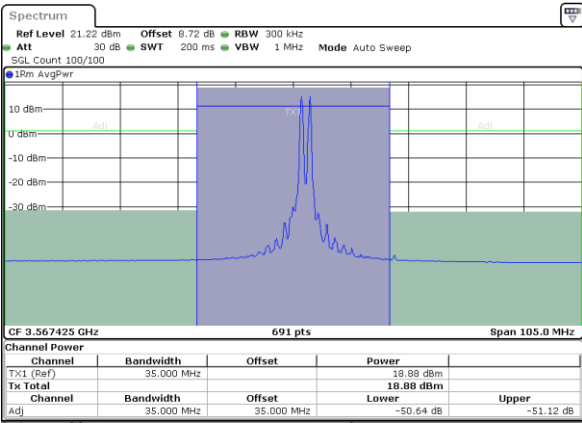


Date: 29, DEC, 2024 22:38:23

Date: 29, DEC, 2024 22:12:09

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

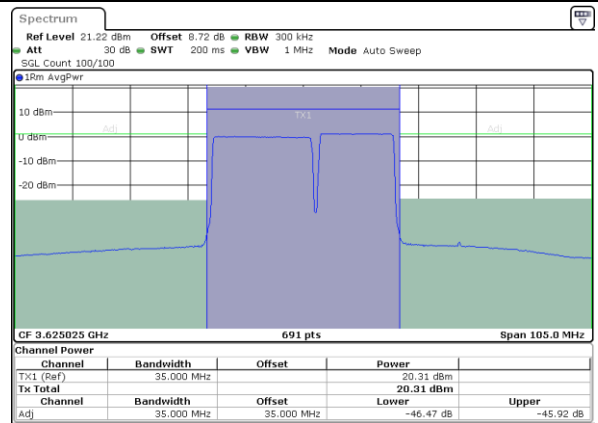
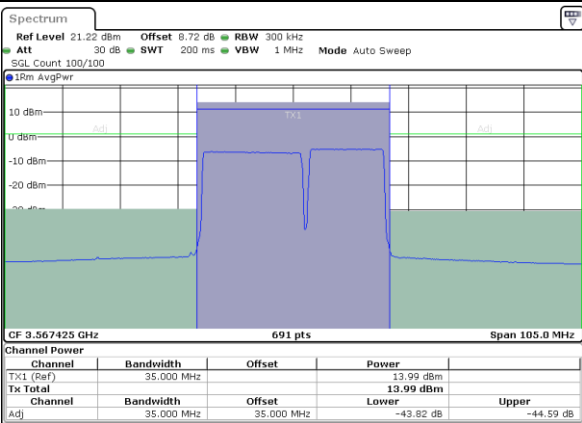


Date: 29, DEC, 2024 22:40:34

Date: 29, DEC, 2024 22:15:48

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 29, DEC, 2024 22:35:28

Date: 29, DEC, 2024 22:09:58

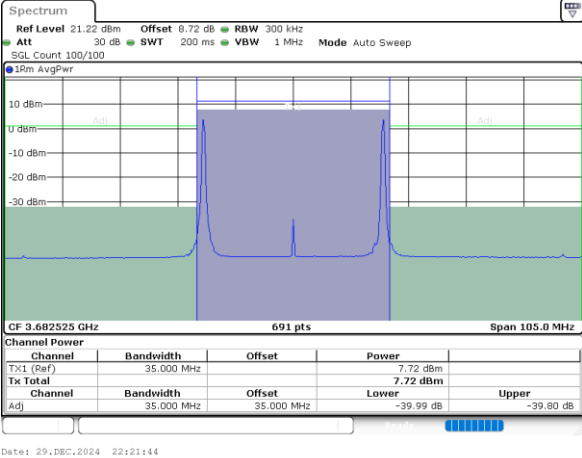


LTE Band 48C / 20MHz+15MHz

64QAM

Highest Band Edge / 1RB0 and 1RB74

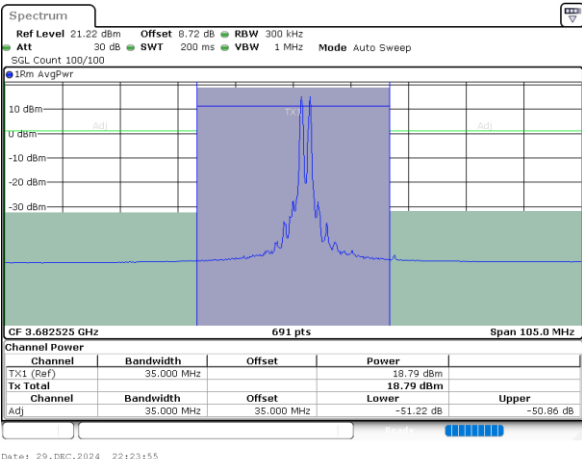
N/A



Date: 29, DEC, 2024 22:21:44

Highest Band Edge / 1RB99 and 1RB0

N/A



Date: 29, DEC, 2024 22:23:55

Highest Band Edge / Full RB

N/A



Date: 29, DEC, 2024 22:18:49

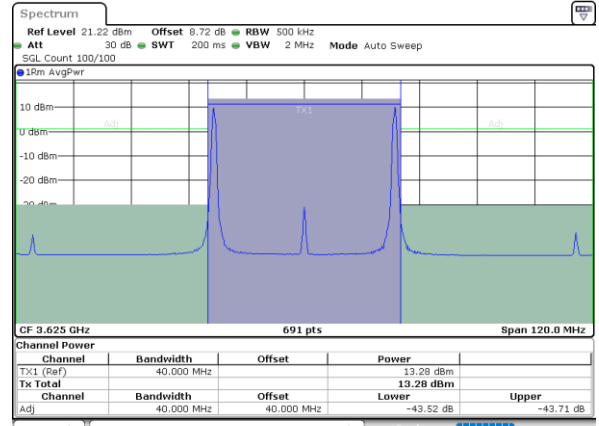
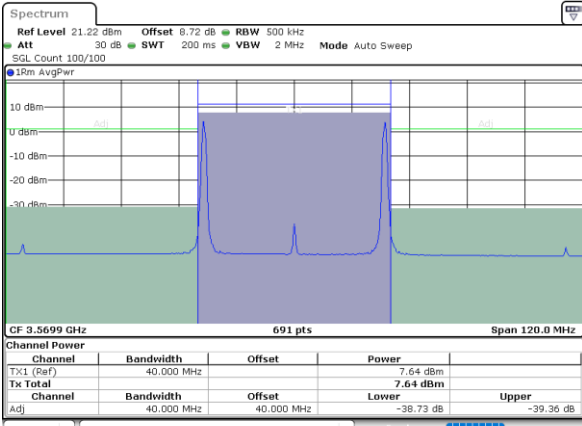


LTE Band 48C / 20MHz+20MHz

64QAM

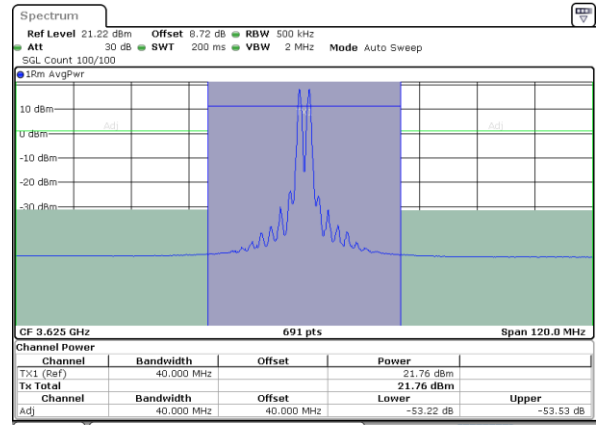
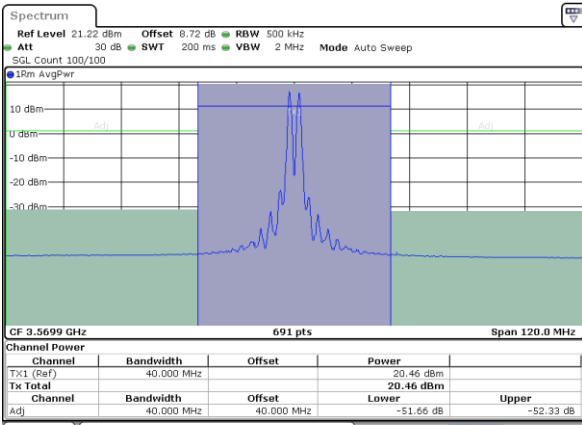
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



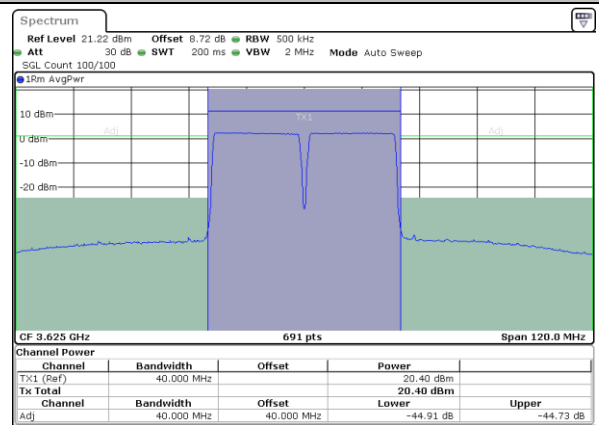
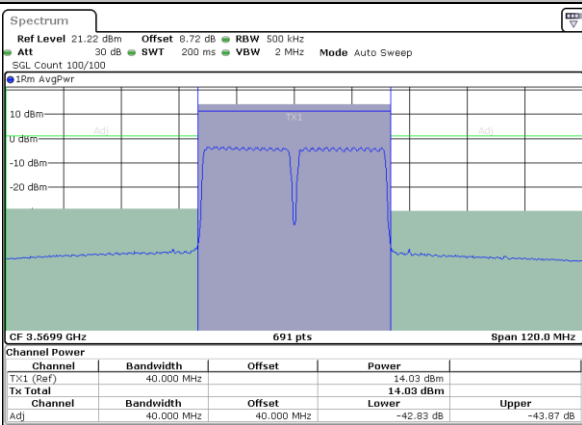
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



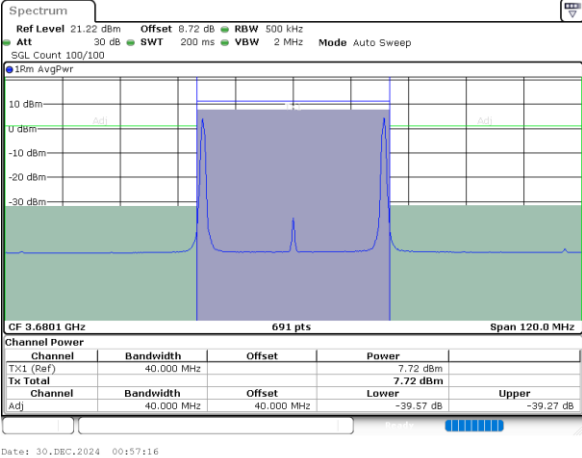


LTE Band 48C / 20MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

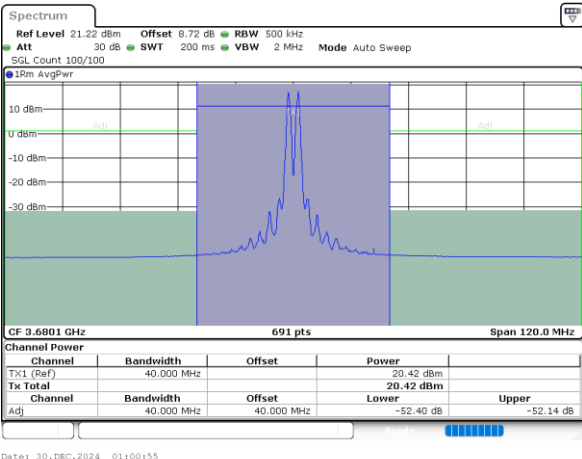
N/A



Date: 30, DEC, 2024 00:57:16

Highest Band Edge / 1RB99 and 1RB0

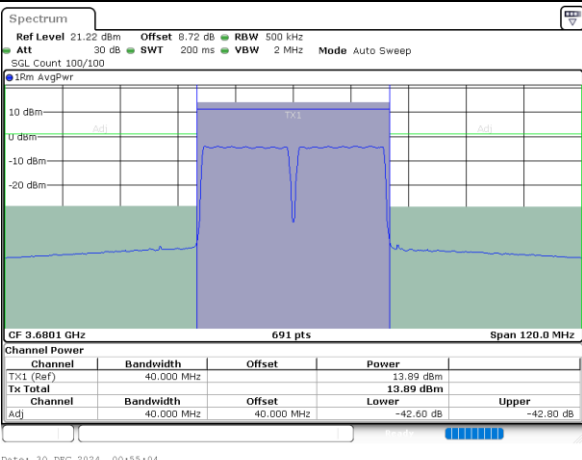
N/A



Date: 30, DEC, 2024 01:00:55

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 00:55:04

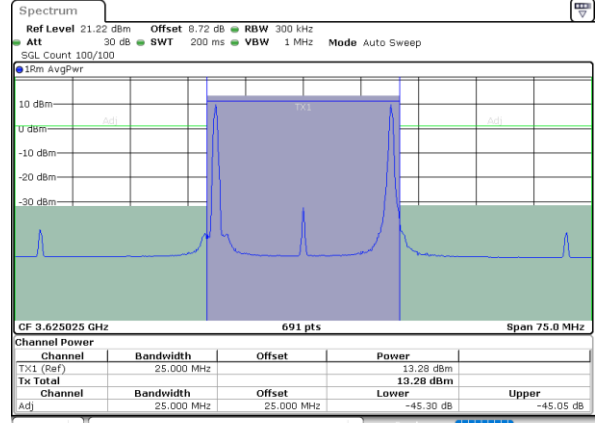
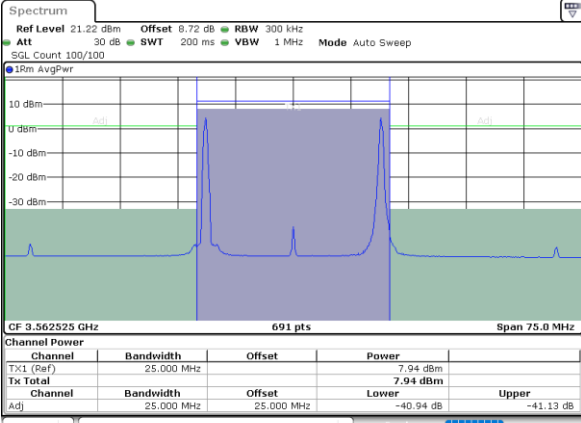


LTE Band 48C / 5MHz+20MHz

256QAM

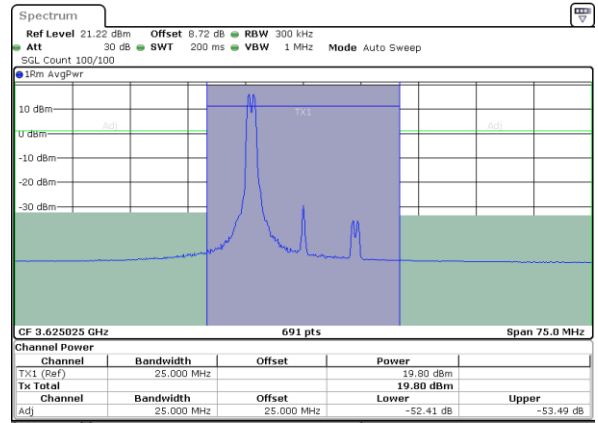
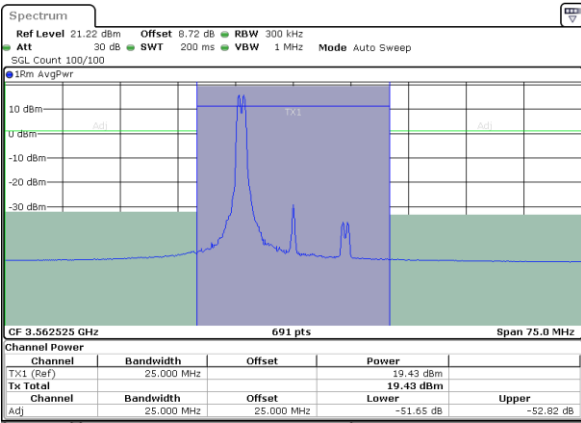
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



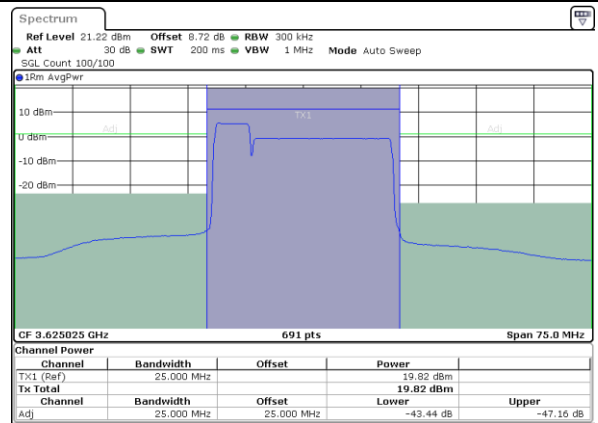
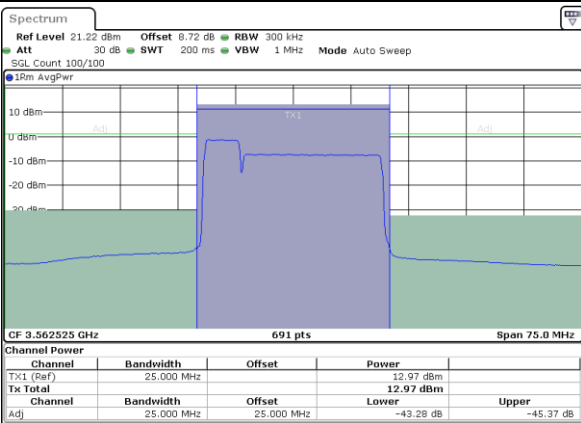
Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



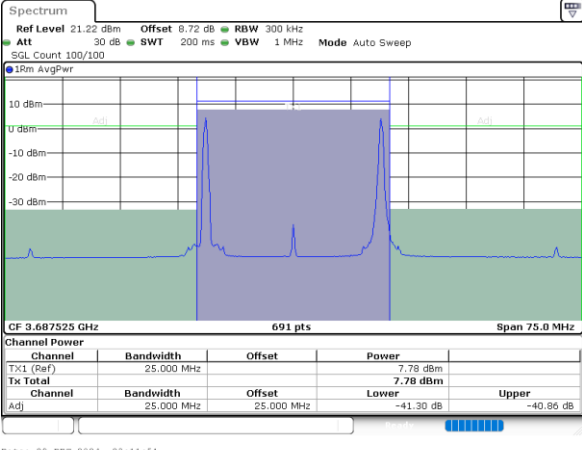


LTE Band 48C / 5MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

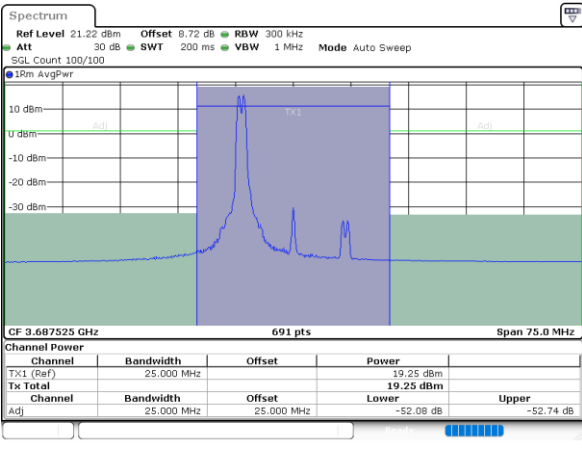
N/A



Date: 29, DEC, 2024 23:11:51

Highest Band Edge / 1RB24 and 1RB0

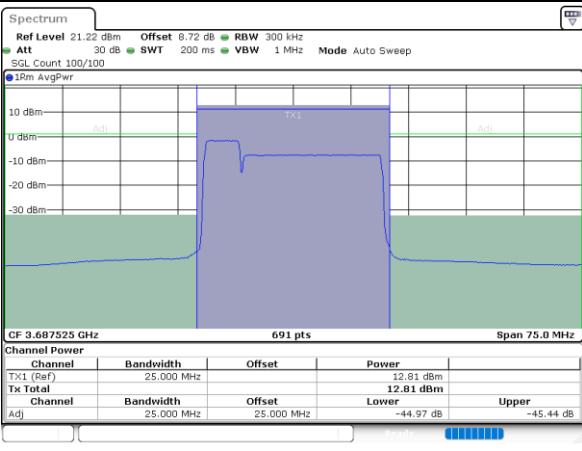
N/A



Date: 29, DEC, 2024 23:12:05

Highest Band Edge / Full RB

N/A



Date: 29, DEC, 2024 23:08:56

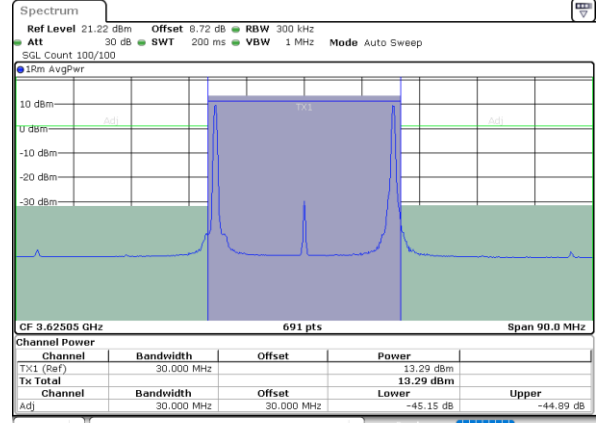
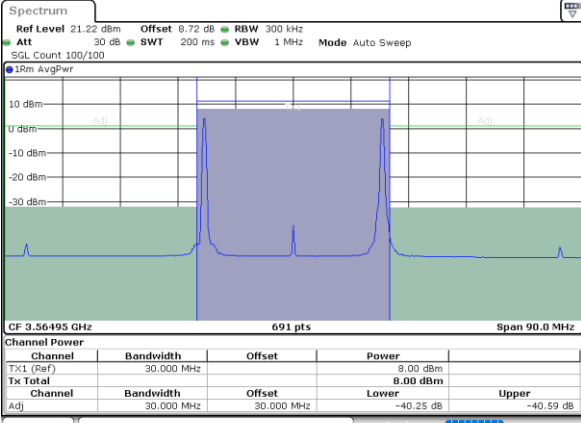


LTE Band 48C / 10MHz+20MHz

256QAM

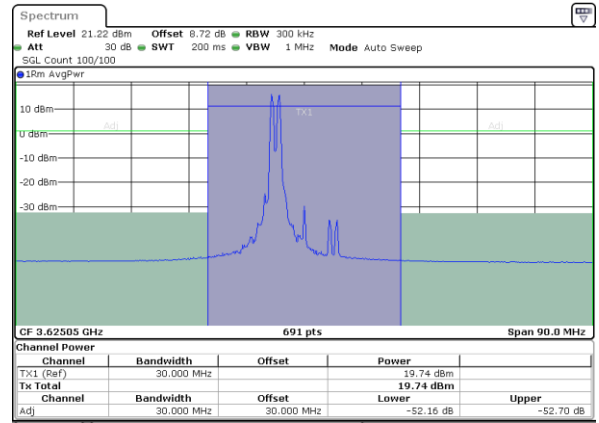
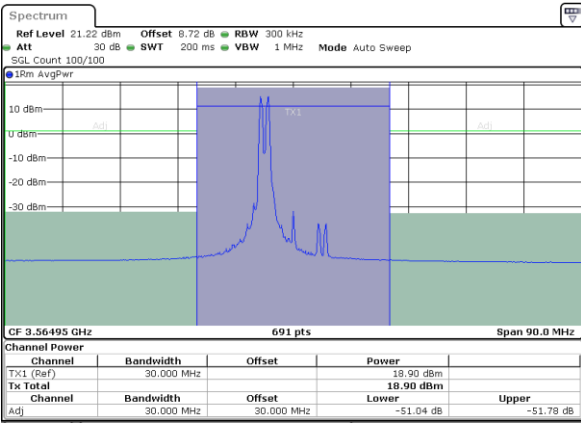
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



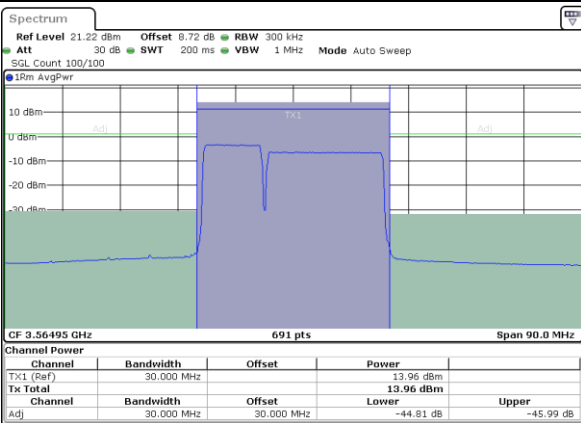
Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



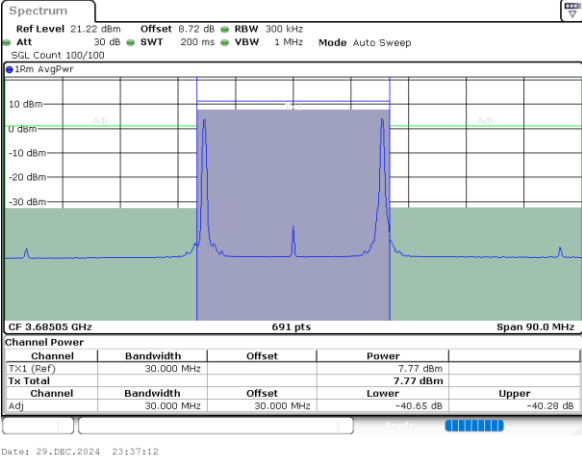


LTE Band 48C / 10MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

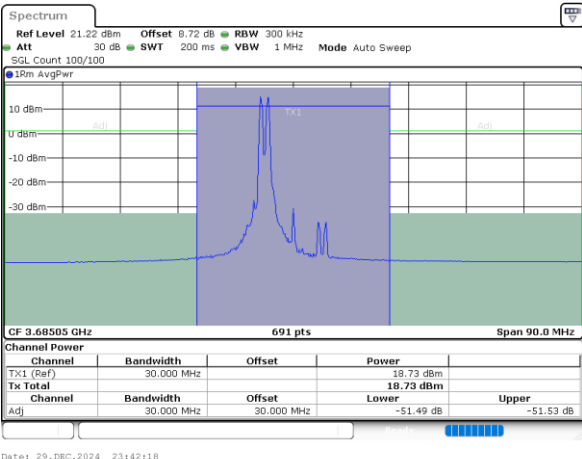
N/A



Date: 29, DEC, 2024 23:37:12

Highest Band Edge / 1RB49 and 1RB0

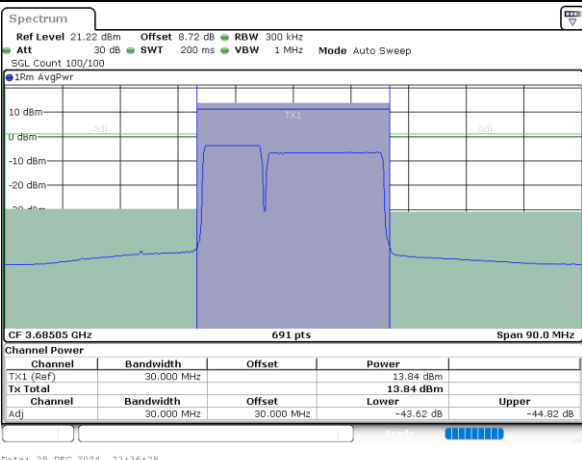
N/A



Date: 29, DEC, 2024 23:42:18

Highest Band Edge / Full RB

N/A



Date: 29, DEC, 2024 23:36:28

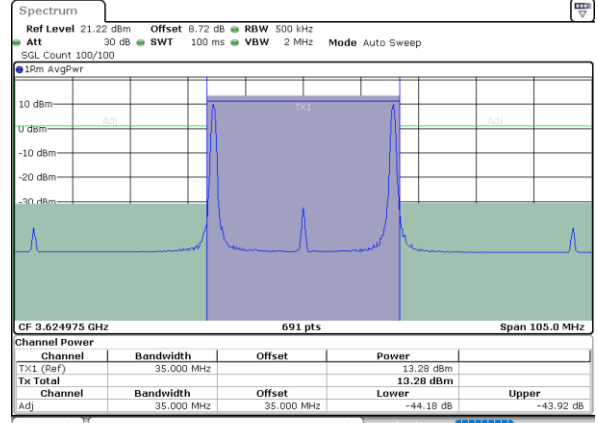
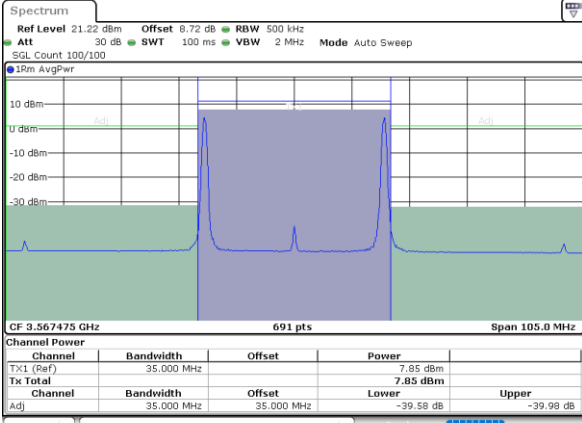


LTE Band 48C / 15MHz+20MHz

256QAM

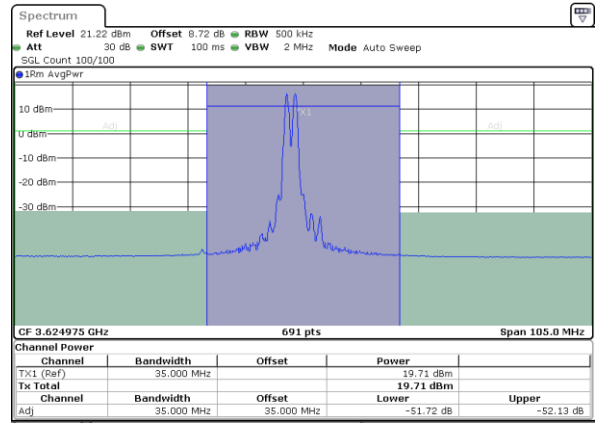
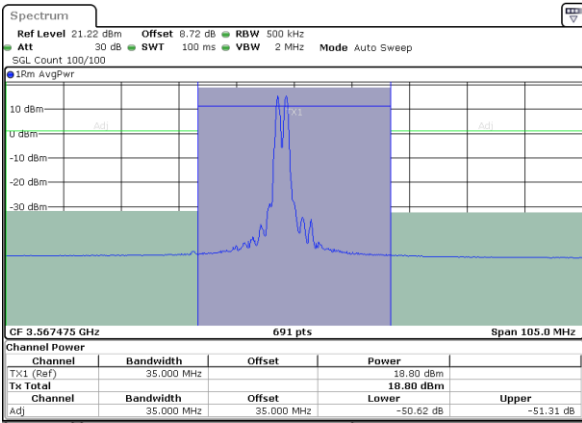
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



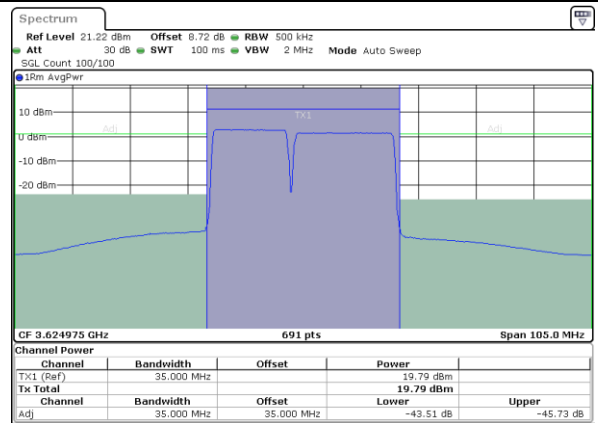
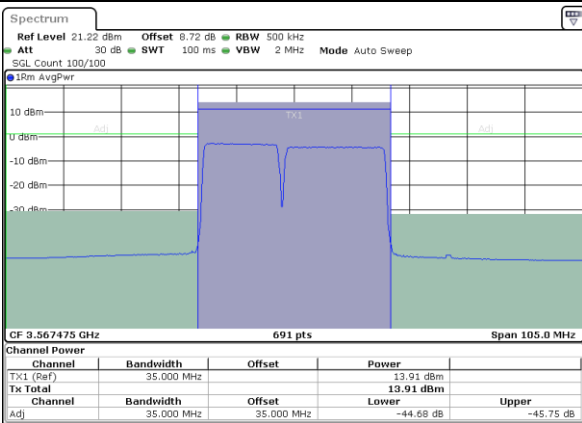
Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



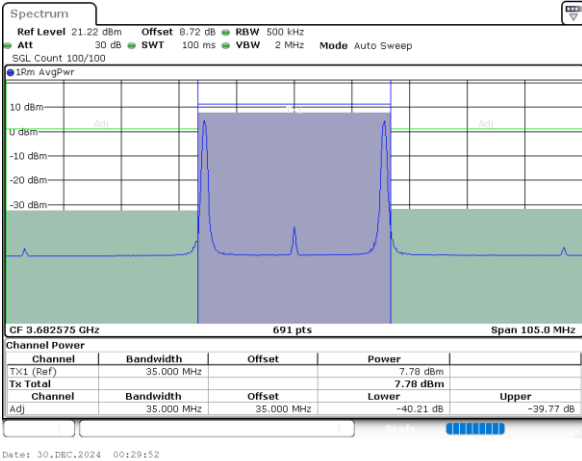


LTE Band 48C / 15MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

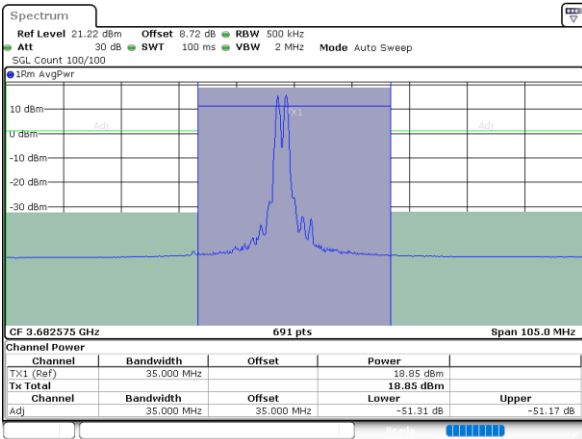
N/A



Date: 30, DEC, 2024 00:29:52

Highest Band Edge / 1RB74 and 1RB0

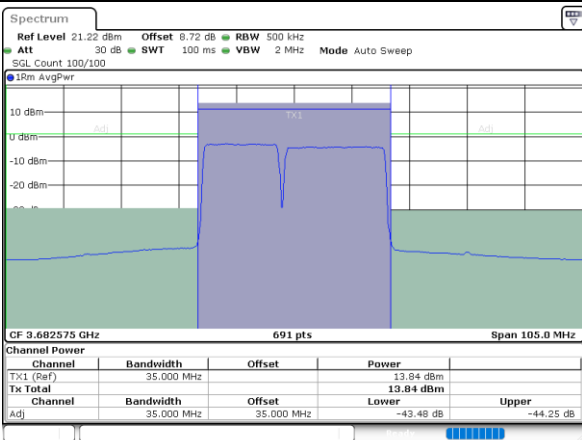
N/A



Date: 30, DEC, 2024 00:34:53

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 00:29:09

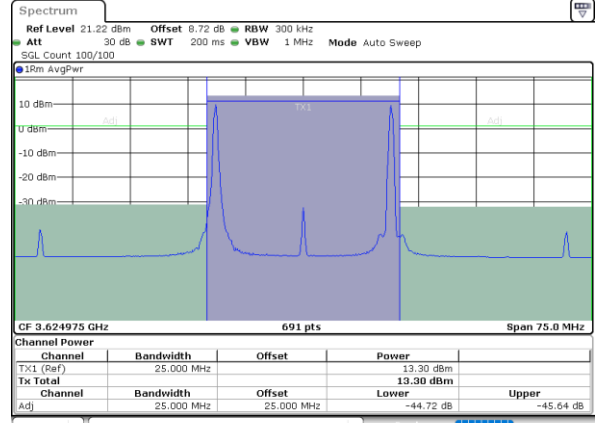
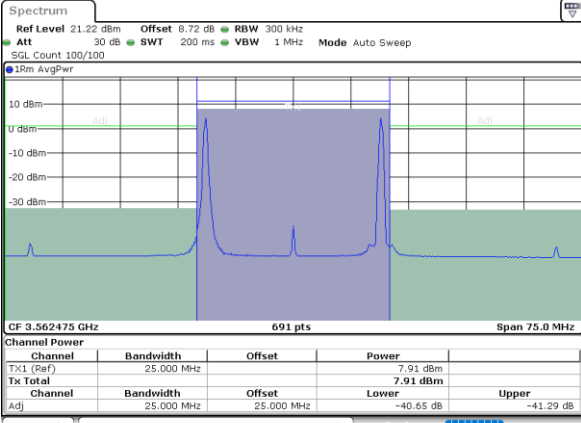


LTE Band 48C/ 20MHz+5MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB24

Middle Band Edge / 1RB0 and 1RB24

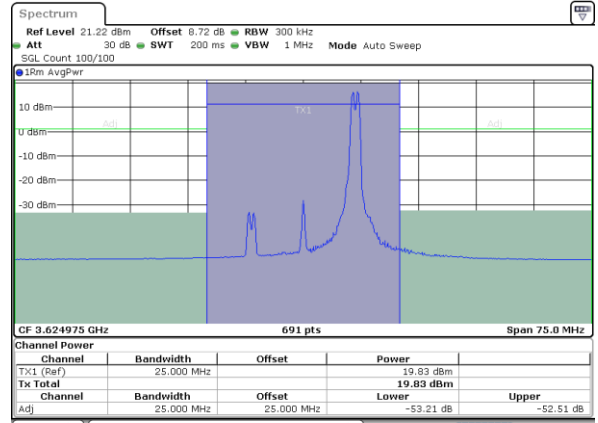
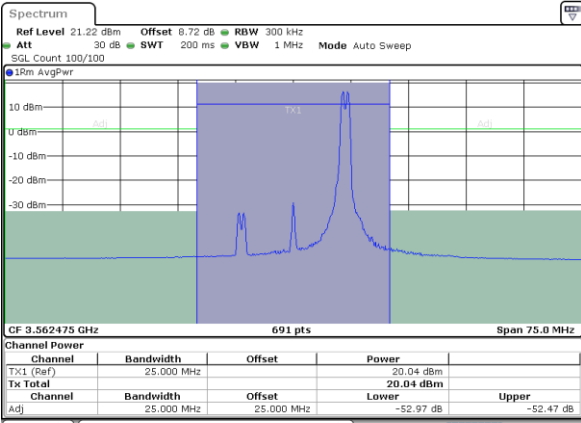


Date: 30, DEC, 2024 01:05:25

Date: 30, DEC, 2024 01:16:29

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

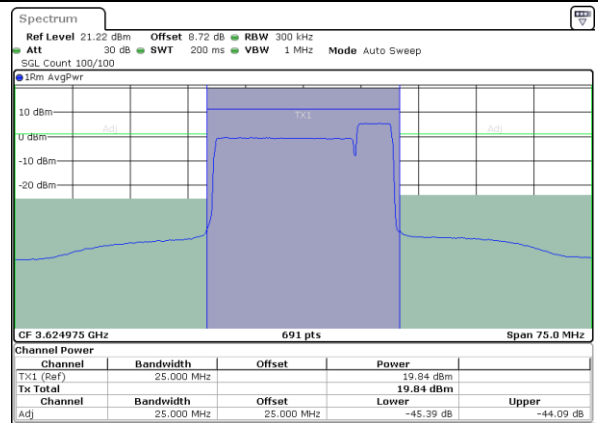
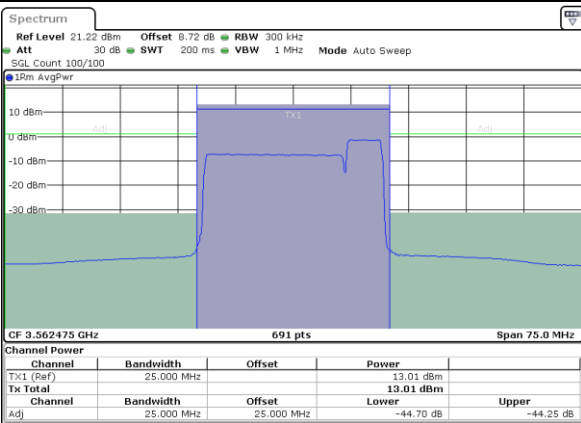


Date: 30, DEC, 2024 01:10:52

Date: 30, DEC, 2024 01:17:13

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 30, DEC, 2024 01:04:41

Date: 30, DEC, 2024 01:13:34

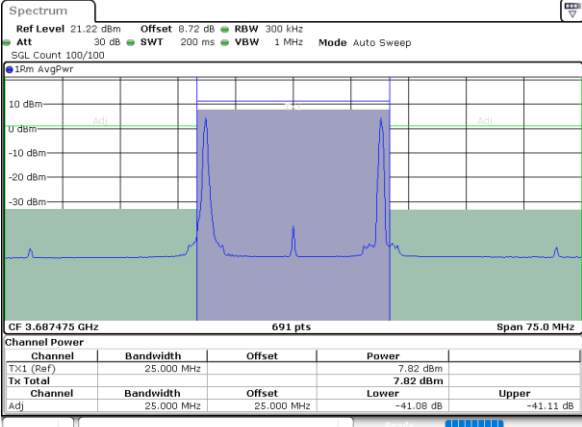


LTE Band 48C / 20MHz+5MHz

256QAM

Highest Band Edge / 1RB0 and 1RB24

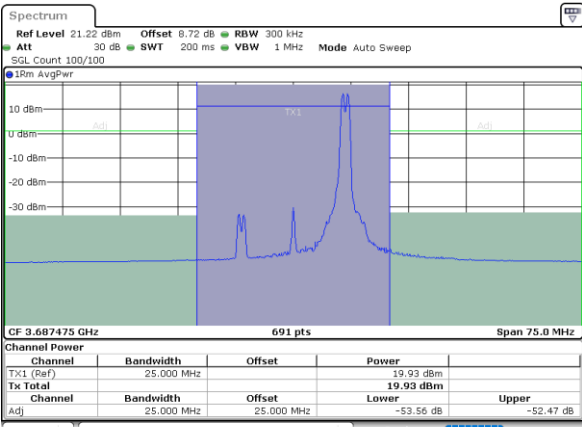
N/A



Date: 30, DEC, 2024 01:23:10

Highest Band Edge / 1RB99 and 1RB0

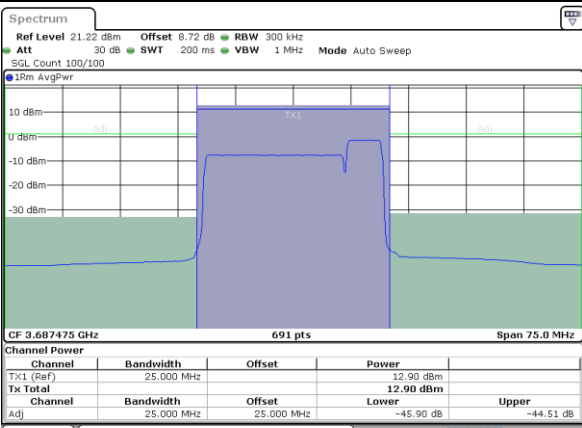
N/A



Date: 30, DEC, 2024 01:28:17

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 01:22:26

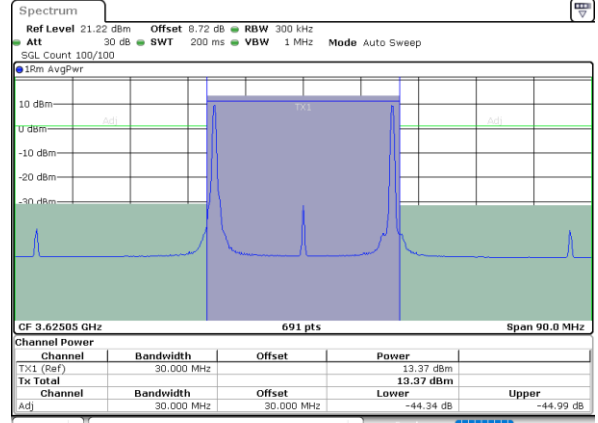
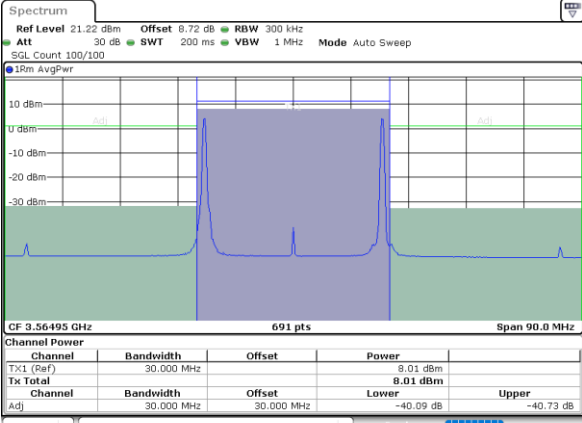


LTE Band 48C / 20MHz+10MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

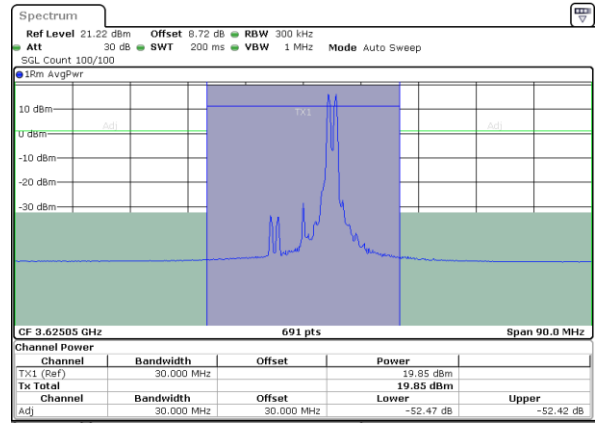
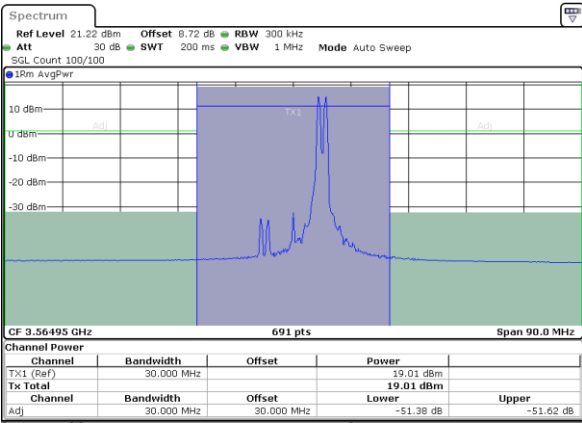


Date: 30, DEC, 2024 01:32:03

Date: 30, DEC, 2024 01:43:08

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

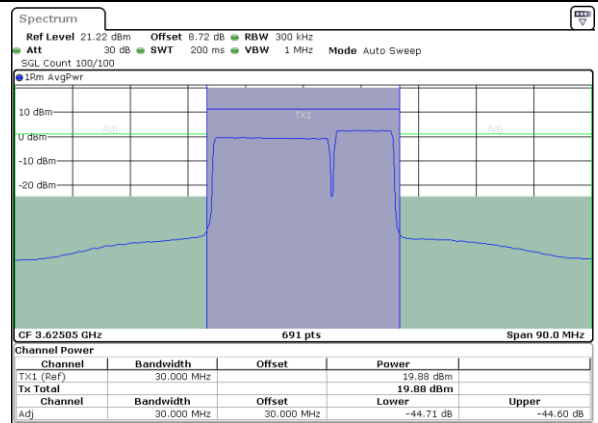
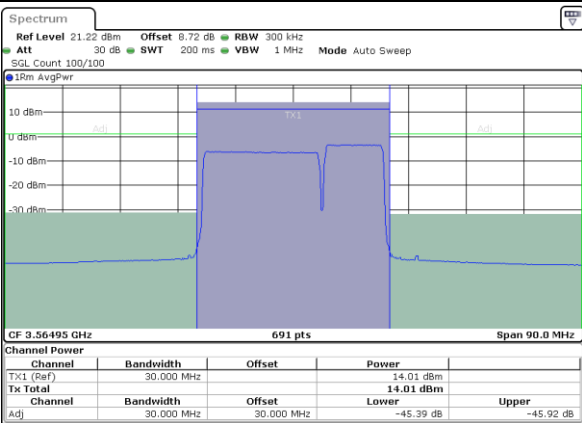


Date: 30, DEC, 2024 01:37:10

Date: 30, DEC, 2024 01:43:52

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 30, DEC, 2024 01:31:19

Date: 30, DEC, 2024 01:40:12

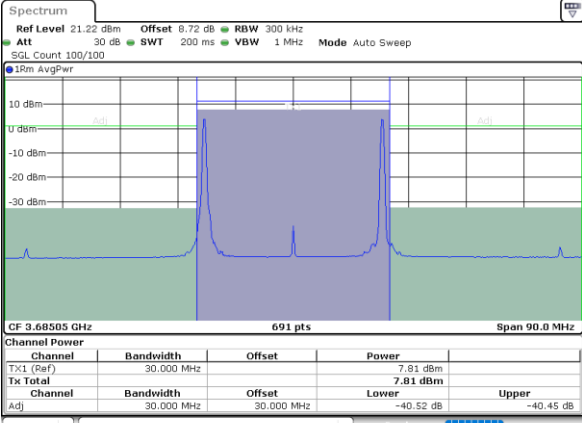


LTE Band 48C / 20MHz+10MHz

256QAM

Highest Band Edge / 1RB0 and 1RB49

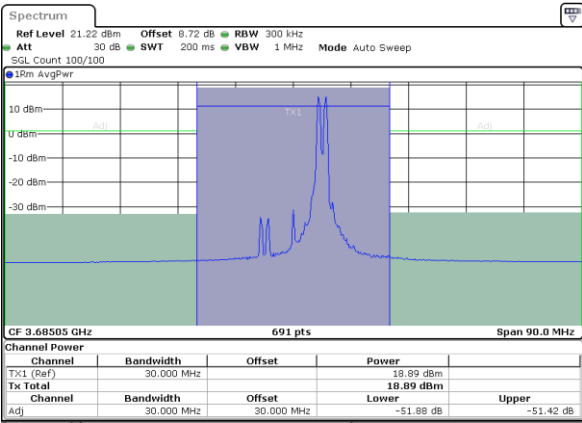
N/A



Date: 30, DEC, 2024 01:49:49

Highest Band Edge / 1RB99 and 1RB0

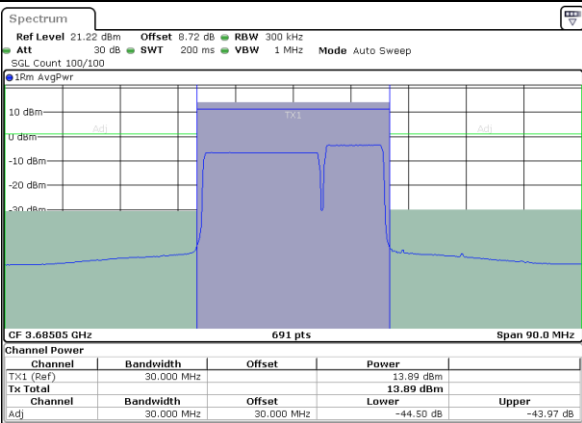
N/A



Date: 30, DEC, 2024 01:54:56

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 01:49:05

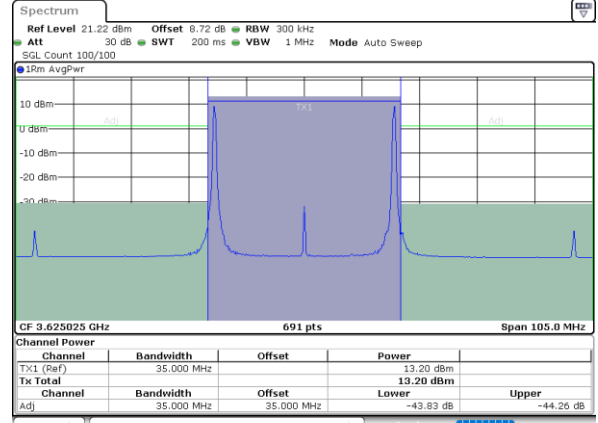
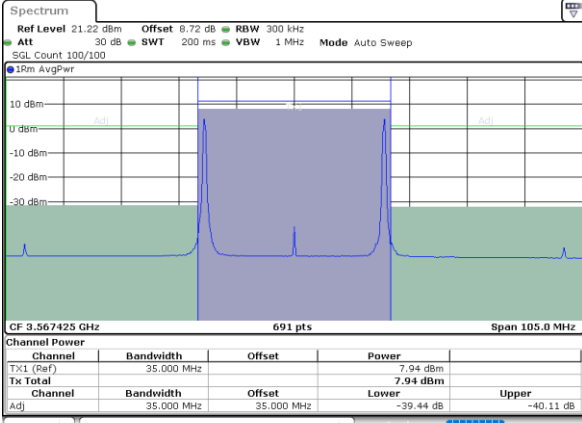


LTE Band 48C / 20MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Middle Band Edge / 1RB0 and 1RB74

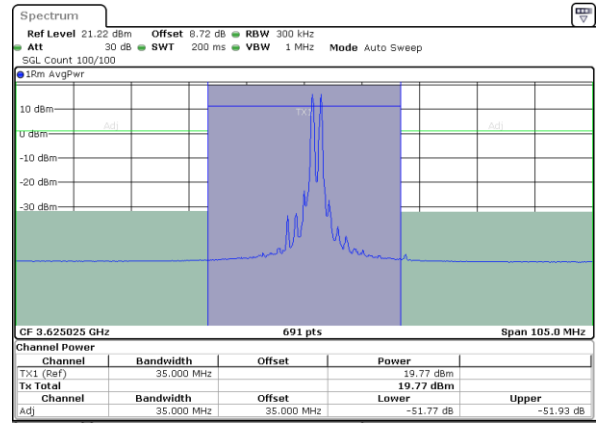
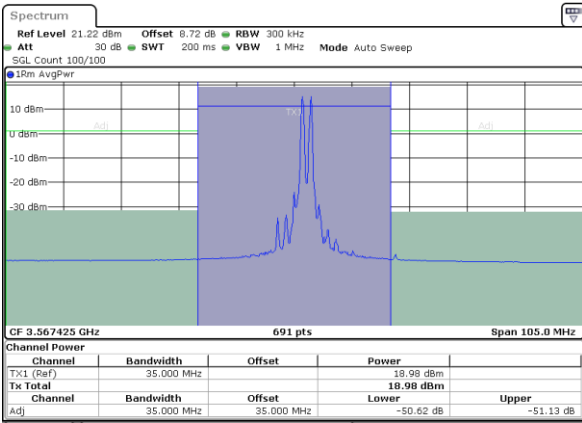


Date: 29, DEC, 2024 22:13:07

Date: 29, DEC, 2024 22:11:25

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

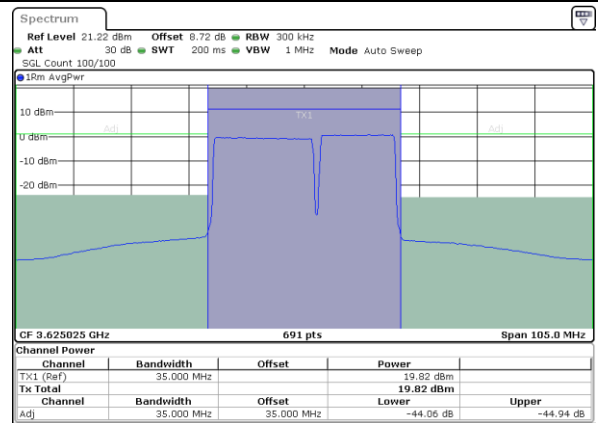
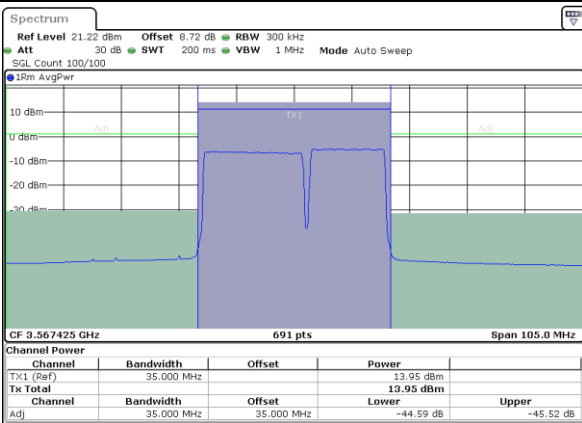


Date: 29, DEC, 2024 22:19:50

Date: 29, DEC, 2024 22:16:31

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 29, DEC, 2024 22:16:11

Date: 29, DEC, 2024 22:10:42

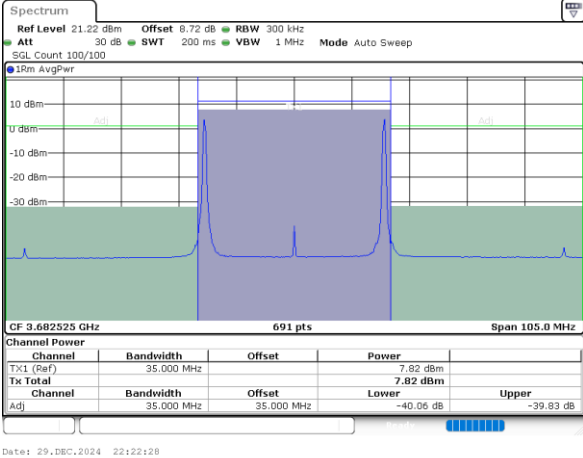


LTE Band 48C / 20MHz+15MHz

256QAM

Highest Band Edge / 1RB0 and 1RB74

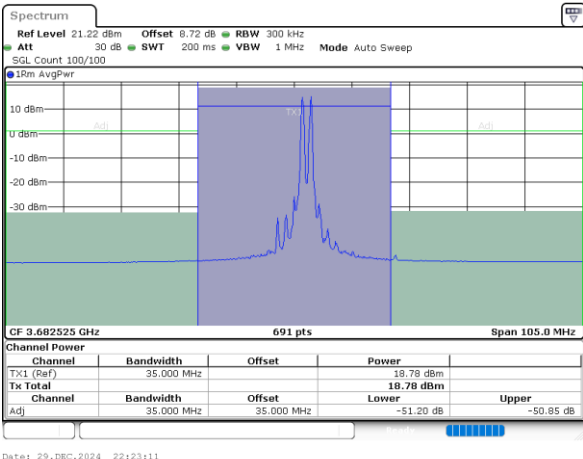
N/A



Date: 29, DEC, 2024 22:22:28

Highest Band Edge / 1RB99 and 1RB0

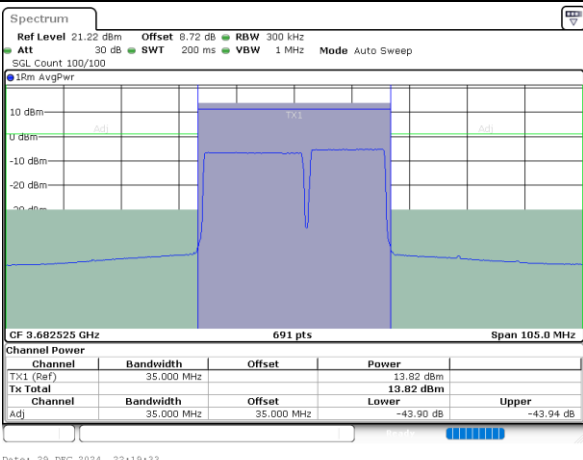
N/A



Date: 29, DEC, 2024 22:23:11

Highest Band Edge / Full RB

N/A



Date: 29, DEC, 2024 22:19:33

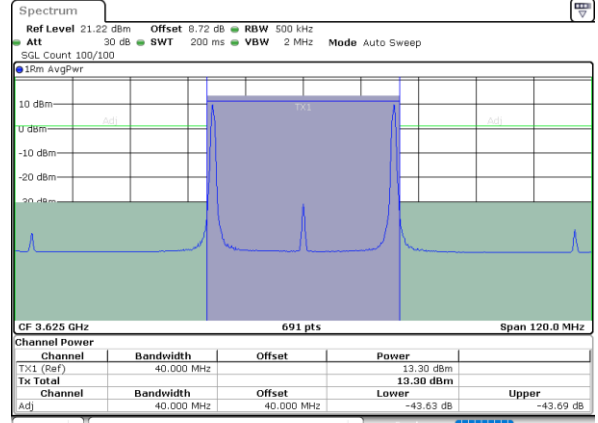
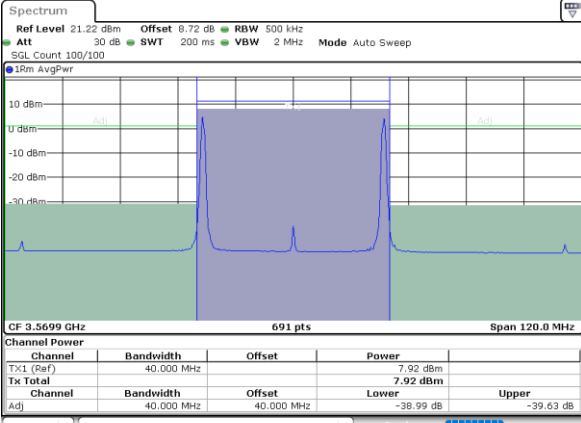


LTE Band 48C / 20MHz+20MHz

256QAM

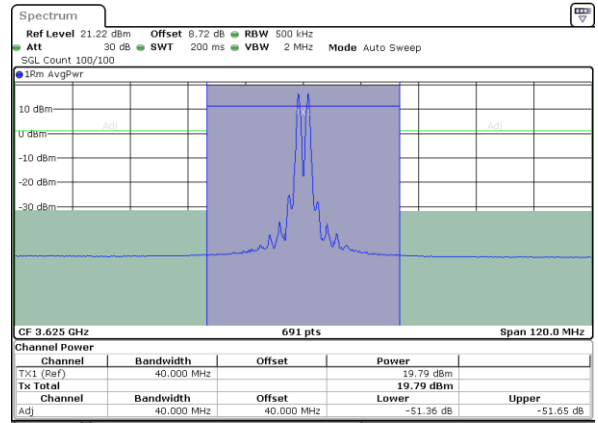
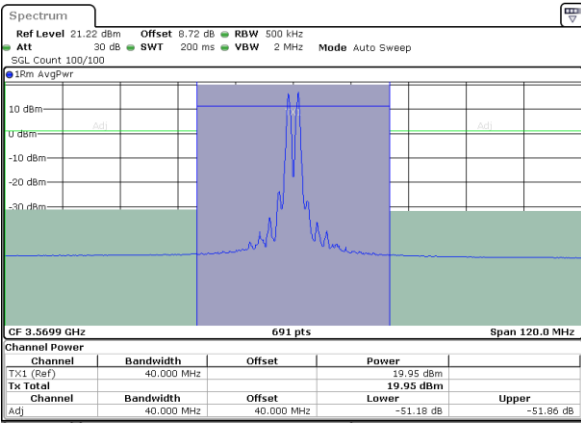
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



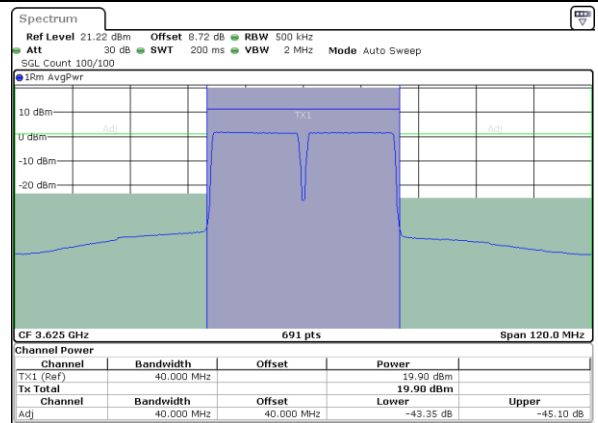
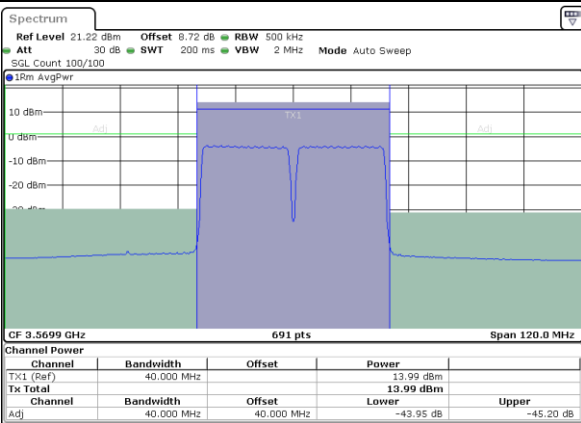
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



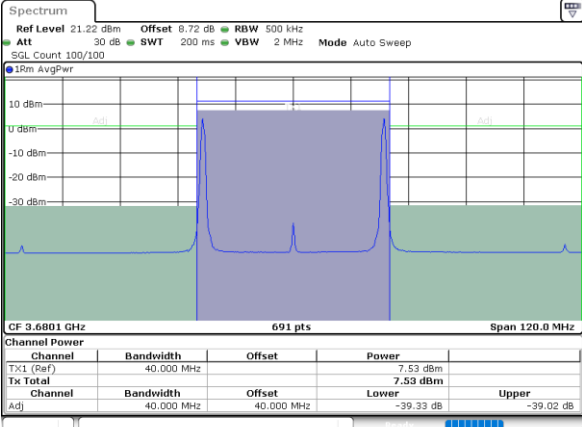


LTE Band 48C / 20MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

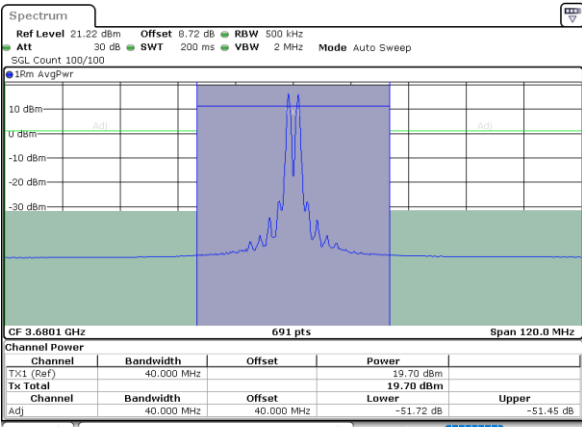
N/A



Date: 30, DEC, 2024 00:56:32

Highest Band Edge / 1RB99 and 1RB0

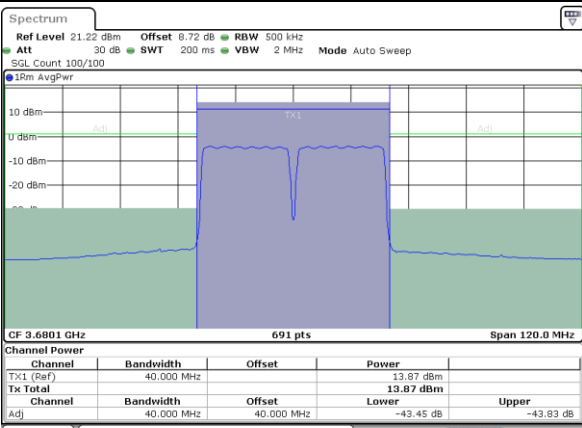
N/A



Date: 30, DEC, 2024 01:01:39

Highest Band Edge / Full RB

N/A



Date: 30, DEC, 2024 00:55:48



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0159	PASS
40	Normal Voltage	0.0183	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0324	
0	Normal Voltage	0.0178	
-10	Normal Voltage	0.0163	
-20	Normal Voltage	0.0149	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0046	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0023	

Note:

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



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Chris	Temperature :	21~25°C
		Relative Humidity :	51~53%

RSE pretest all the supported Antennas, only the worst results are shown in the report.

LTE Band 48 / 20MHz / QPSK / Ant.5 open status								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7236	-59.90	-40	-19.90	-71.36	2.84	14.30	H
	10848	-52.17	-40	-12.17	-62.11	3.49	13.43	H
	14460	-46.21	-40	-6.21	-56.45	3.85	14.09	H
	7236	-57.94	-40	-17.94	-69.40	2.84	14.30	V
	10848	-44.19	-40	-4.19	-54.13	3.49	13.43	V
	14460	-45.73	-40	-5.73	-55.97	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE CA_48B PCC / 10M+10M / QPSK / Ant.5 open status								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7272	-61.40	-40	-21.40	-72.86	2.84	14.30	H
	10920	-59.58	-40	-19.58	-69.52	3.49	13.43	H
	14556	-59.06	-40	-19.06	-69.30	3.85	14.09	H
	7272	-60.55	-40	-20.55	-72.01	2.84	14.30	V
	10920	-56.52	-40	-16.52	-66.46	3.49	13.43	V
	14556	-59.34	-40	-19.34	-69.58	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE CA_48B SCC / 10M+10M / QPSK / Ant.5 open status								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7296	-61.93	-40	-21.93	-73.39	2.84	14.30	H
	10944	-59.69	-40	-19.69	-69.63	3.49	13.43	H
	14592	-58.88	-40	-18.88	-69.12	3.85	14.09	H
	7296	-62.04	-40	-22.04	-73.50	2.84	14.30	V
	10944	-59.87	-40	-19.87	-69.81	3.49	13.43	V
	14592	-58.48	-40	-18.48	-68.72	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE CA_48C PCC / 20M+20M / QPSK / Ant.5 open status								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7236	-60.55	-40	-20.55	-72.01	2.84	14.30	H
	10848	-54.14	-40	-14.14	-64.08	3.49	13.43	H
	14460	-45.78	-40	-5.78	-56.02	3.85	14.09	H
	7236	-60.40	-40	-20.4	-71.86	2.84	14.30	V
	10848	-51.16	-40	-11.16	-61.10	3.49	13.43	V
	14460	-45.93	-40	-5.93	-56.17	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE CA_48C SCC / 20M+20M / QPSK / Ant.5 open status								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7272	-60.42	-40	-20.42	-71.88	2.84	14.30	H
	10908	-53.90	-40	-13.9	-63.84	3.49	13.43	H
	14544	-46.83	-40	-6.83	-57.07	3.85	14.09	H
	7272	-60.00	-40	-20	-71.46	2.84	14.30	V
	10908	-53.38	-40	-13.38	-63.32	3.49	13.43	V
	14544	-46.39	-40	-6.39	-56.63	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.