

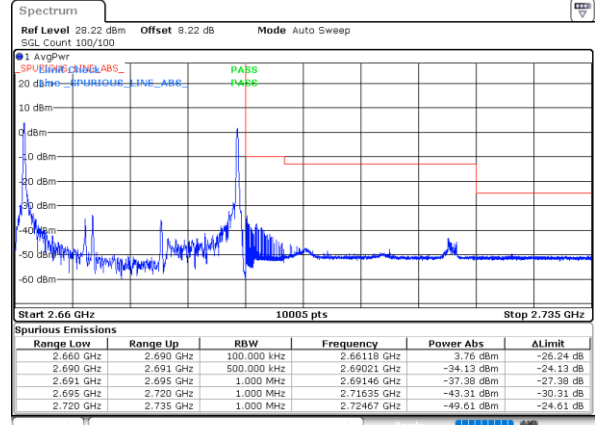
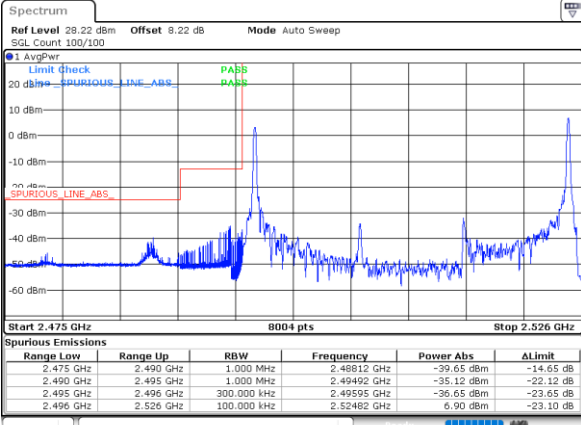


LTE Band 41C / 20MHz+10MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

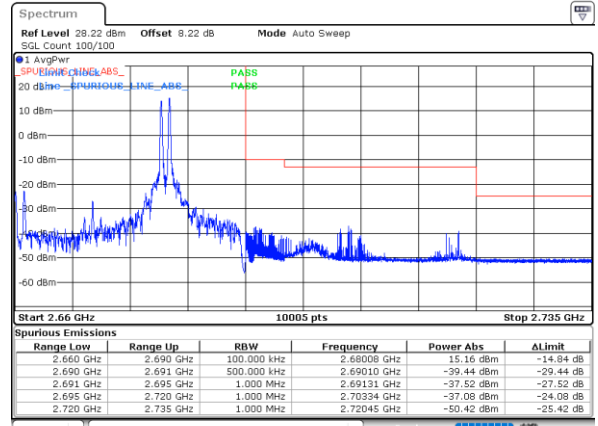
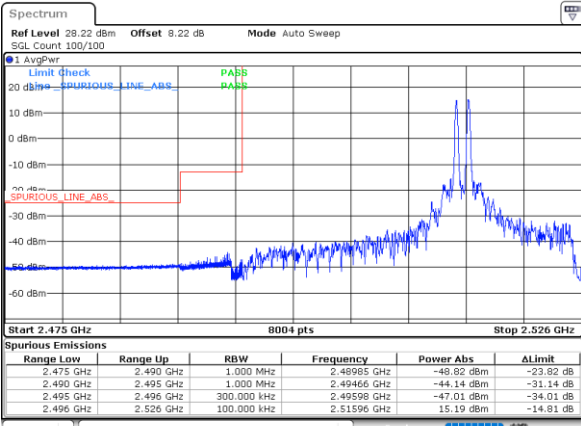


Date: 15.MAY.2024 01:46:42

Date: 15.MAY.2024 02:04:56

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

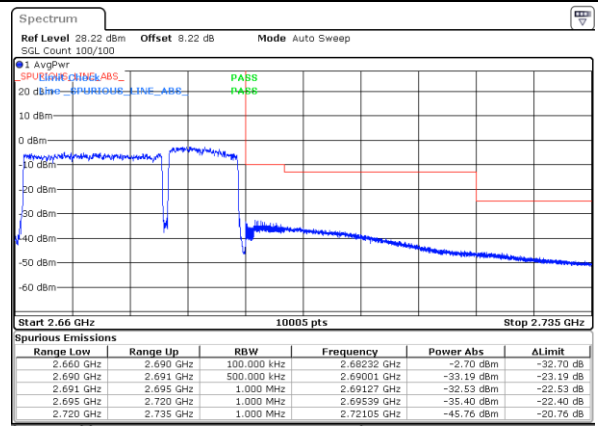
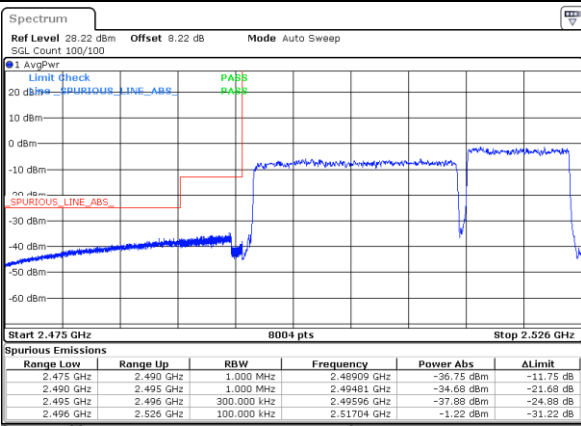


Date: 15.MAY.2024 01:42:25

Date: 15.MAY.2024 02:10:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 01:51:11

Date: 15.MAY.2024 02:08:34

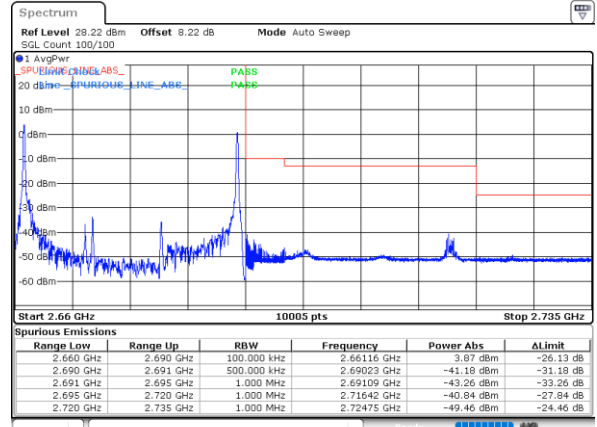
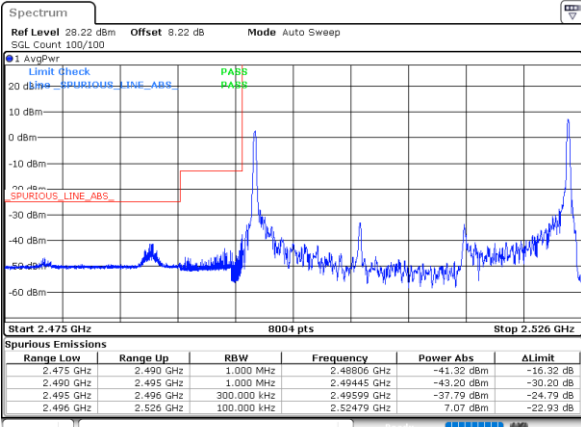


LTE Band 41C / 20MHz+10MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

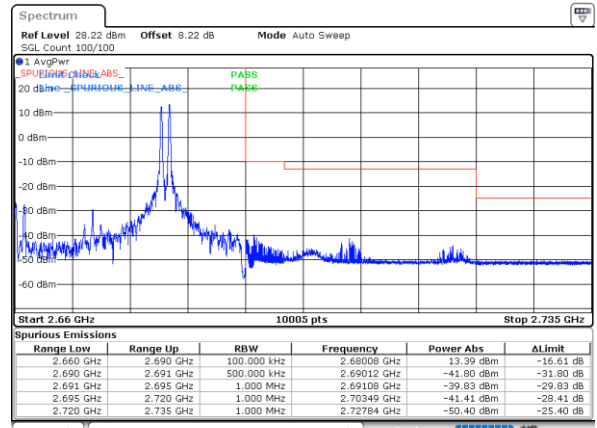
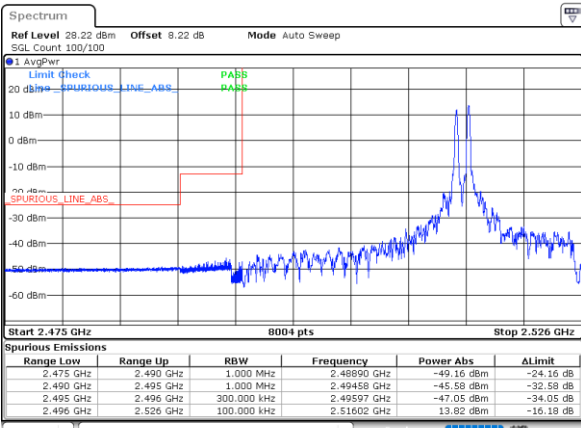


Date: 15.MAY.2024 01:48:29

Date: 15.MAY.2024 02:05:51

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

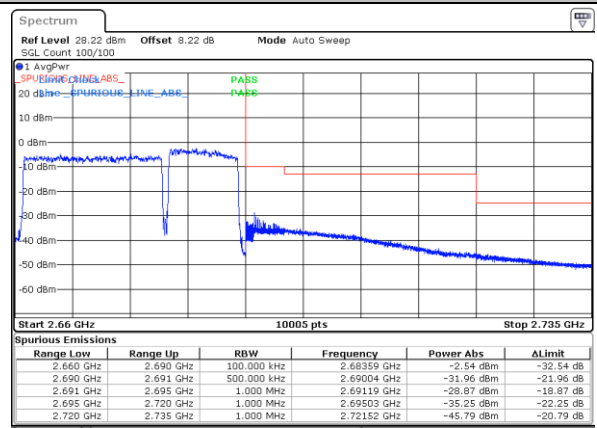
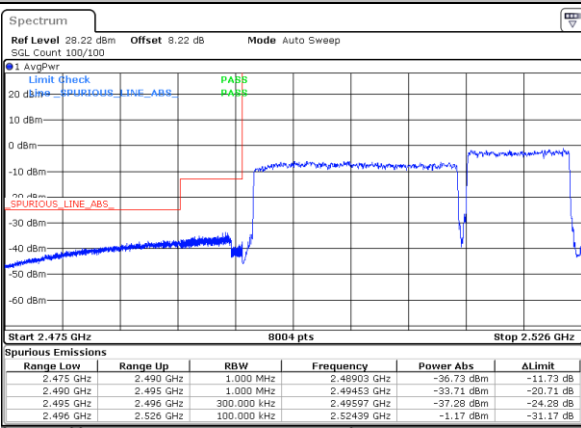


Date: 15.MAY.2024 01:43:19

Date: 15.MAY.2024 02:02:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 01:52:05

Date: 15.MAY.2024 02:09:28

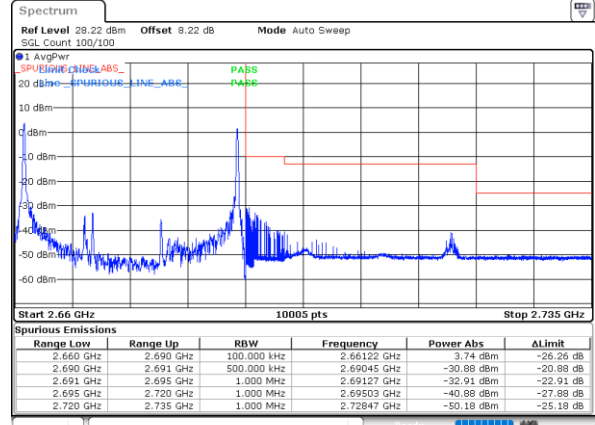
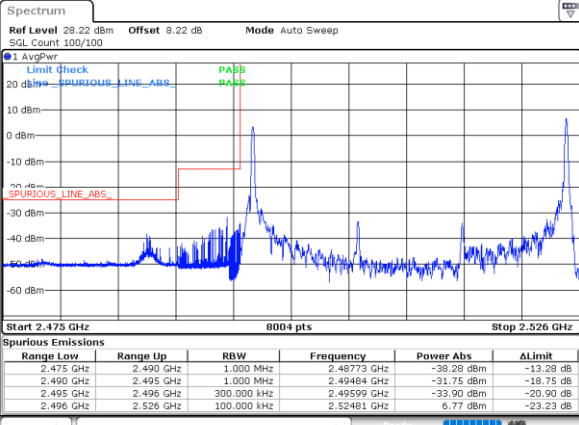


LTE Band 41C / 20MHz+10MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

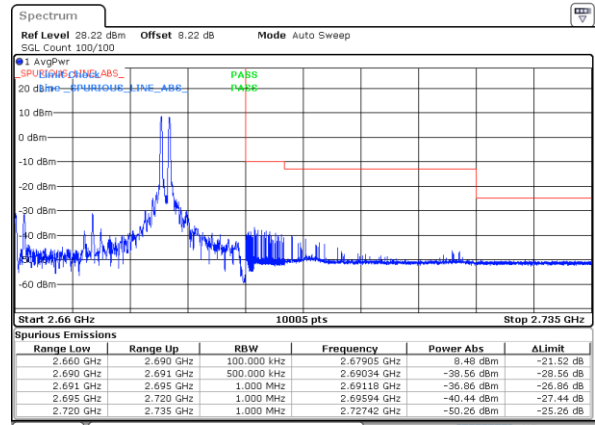
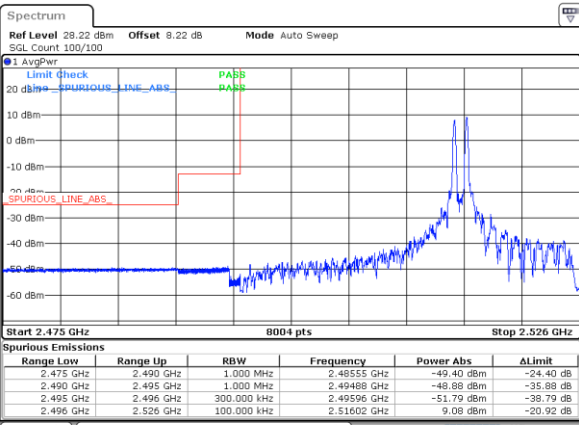


Date: 15.MAY.2024 01:49:23

Date: 15.MAY.2024 02:06:45

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

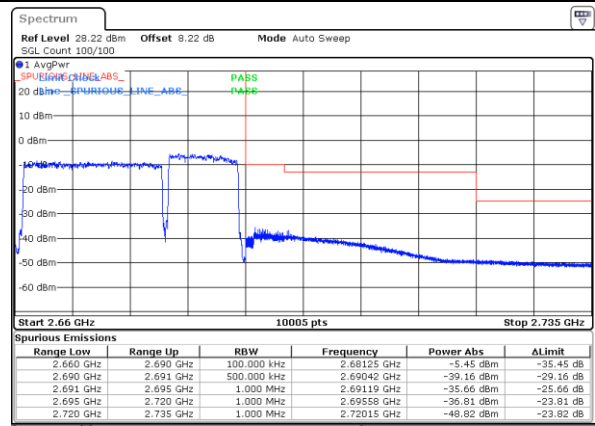
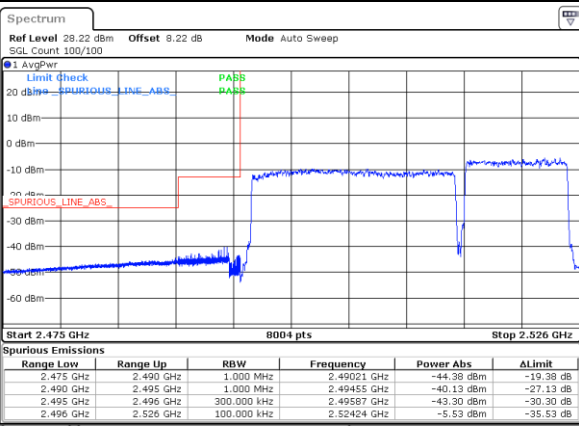


Date: 15.MAY.2024 01:44:13

Date: 15.MAY.2024 02:03:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 01:52:59

Date: 15.MAY.2024 02:10:22

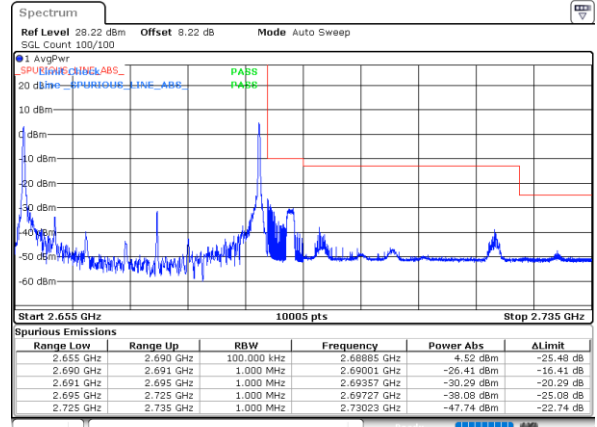
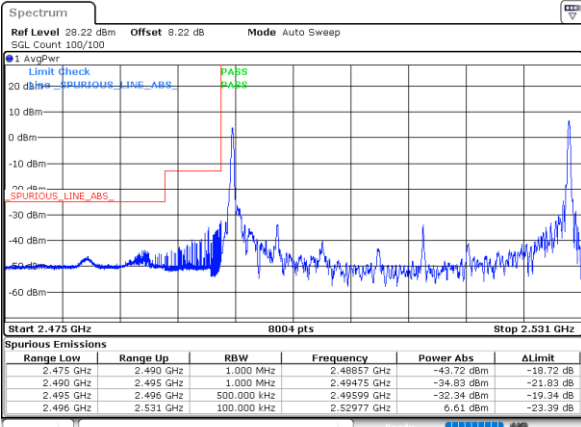


LTE Band 41C / 20MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

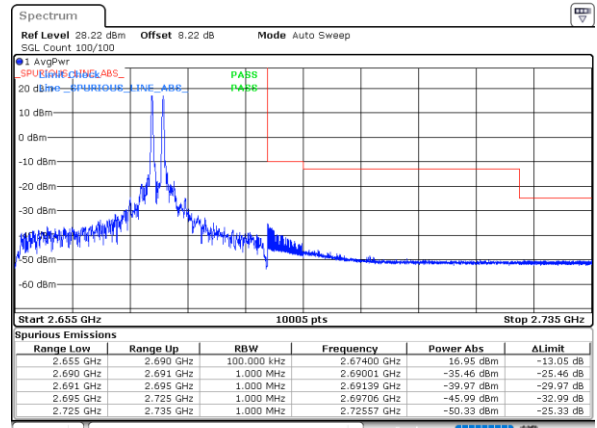
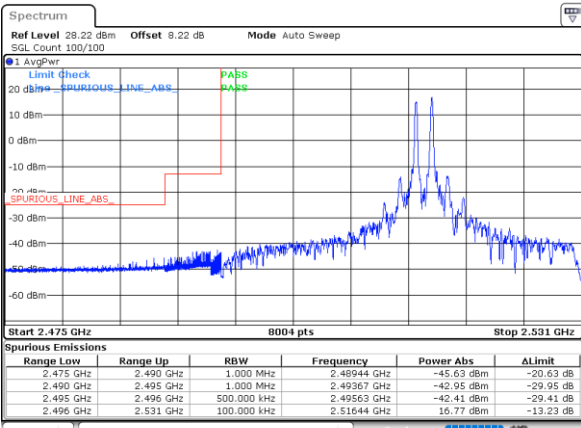


Date: 15.MAY.2024 02:17:39

Date: 15.MAY.2024 02:33:37

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

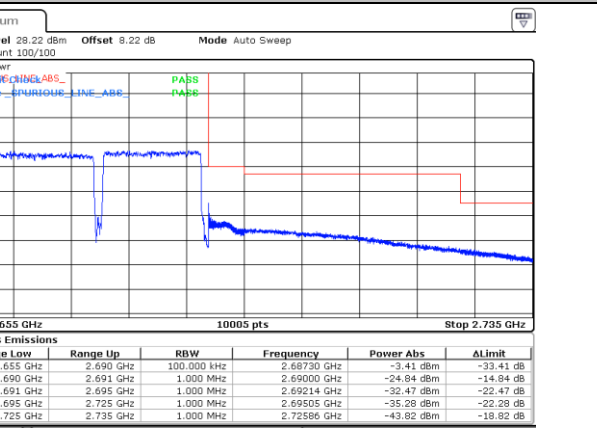
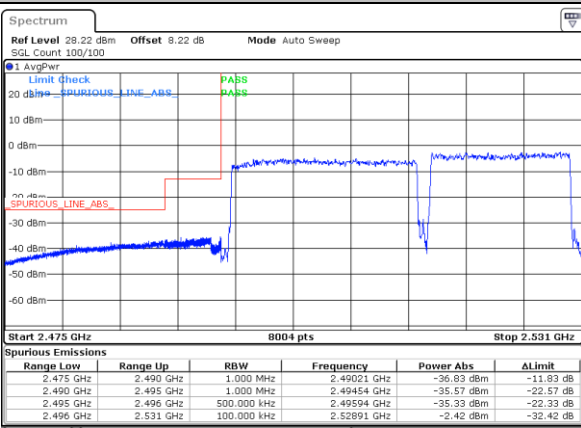


Date: 15.MAY.2024 03:20:00

Date: 15.MAY.2024 02:30:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:21:16

Date: 15.MAY.2024 02:37:13

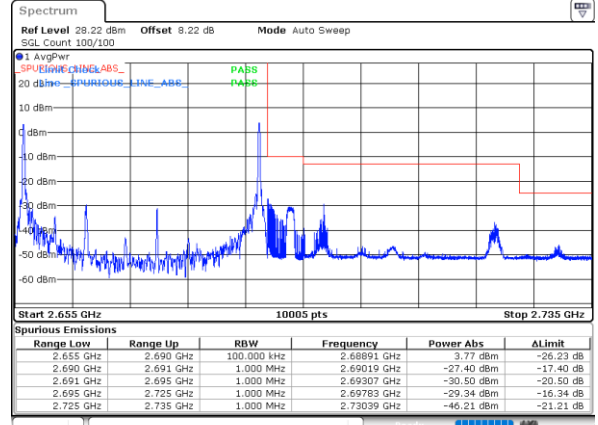
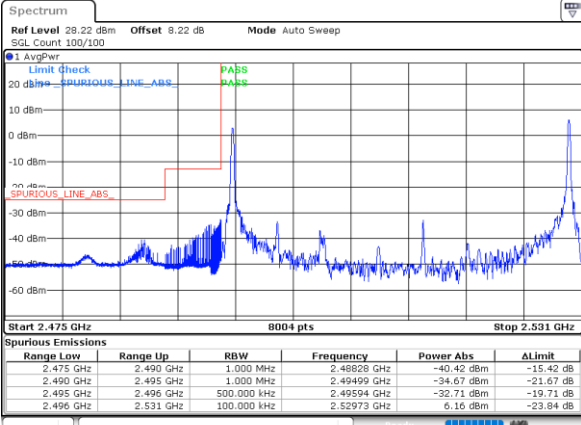


LTE Band 41C / 20MHz+15MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

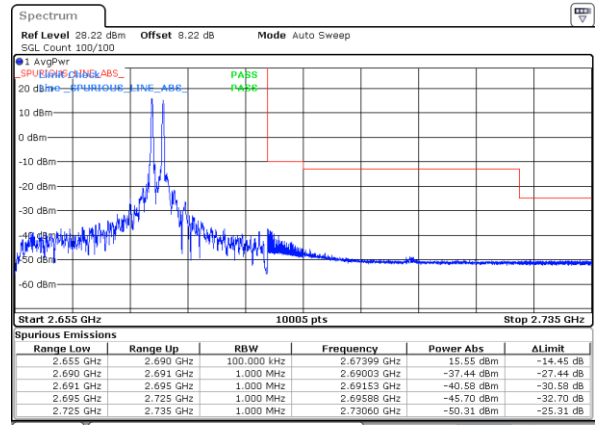
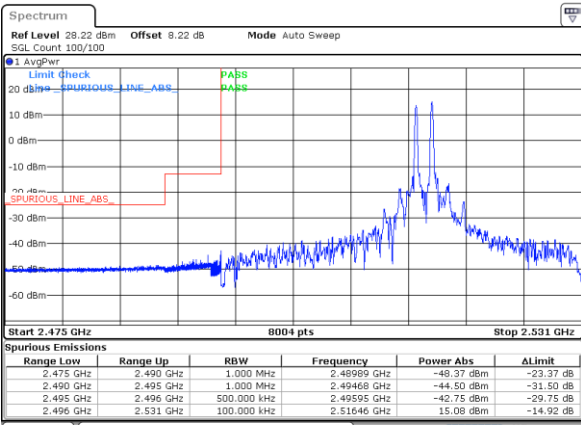


Date: 15.MAY.2024 02:18:33

Date: 15.MAY.2024 02:14:31

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

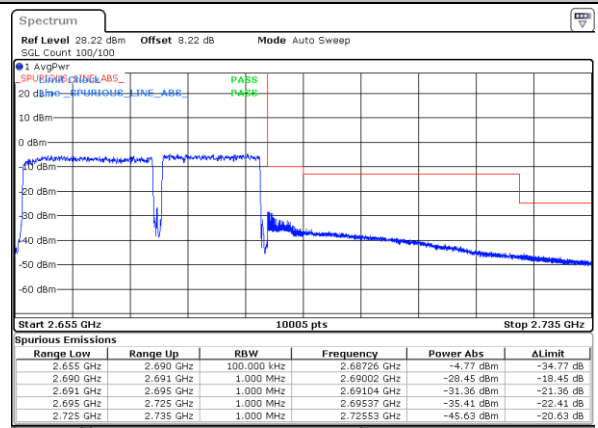
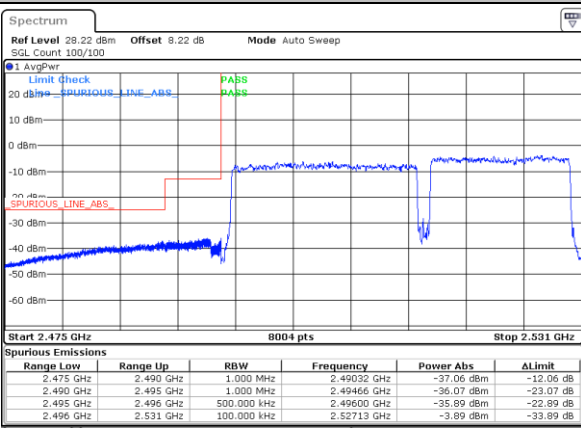


Date: 15.MAY.2024 02:14:57

Date: 15.MAY.2024 02:30:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:22:10

Date: 15.MAY.2024 02:38:07

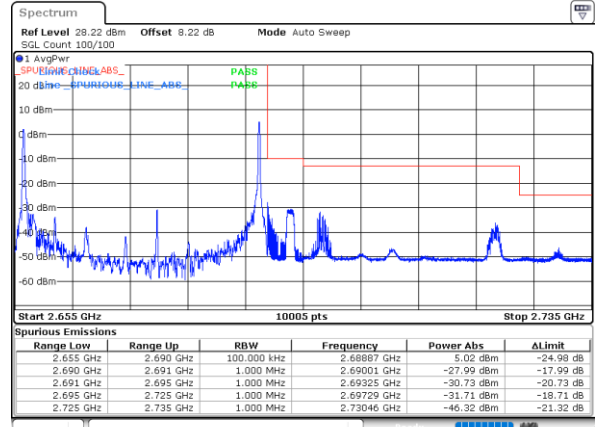
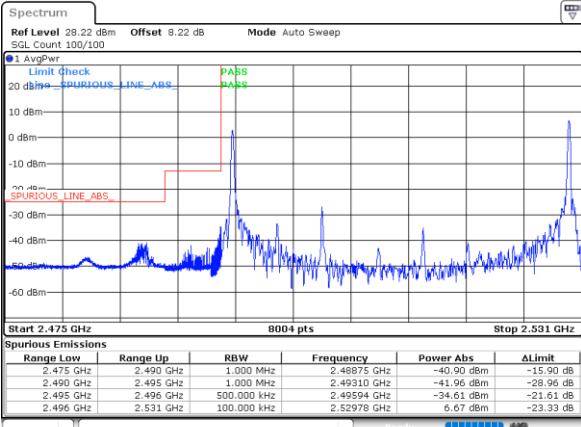


LTE Band 41C / 20MHz+15MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

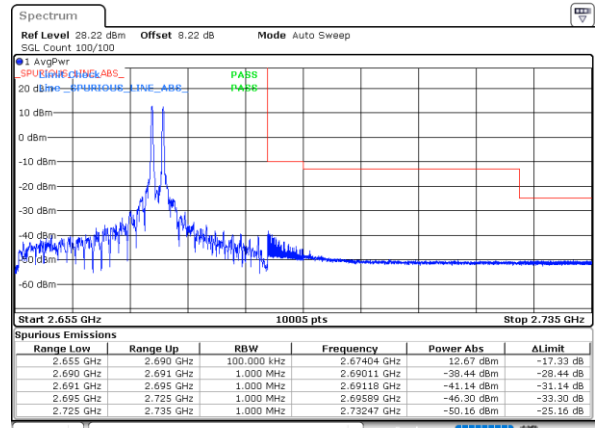
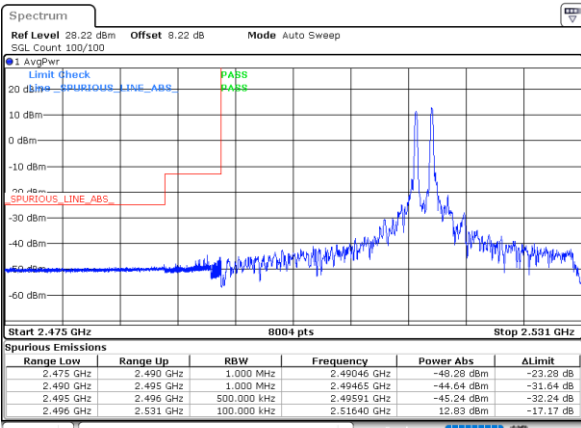


Date: 15.MAY.2024 02:19:28

Date: 15.MAY.2024 02:15:25

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

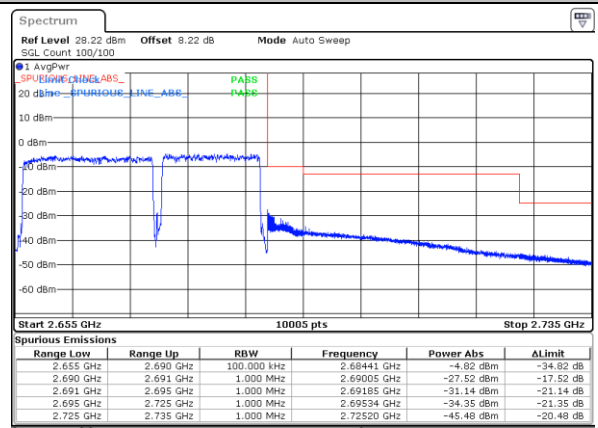
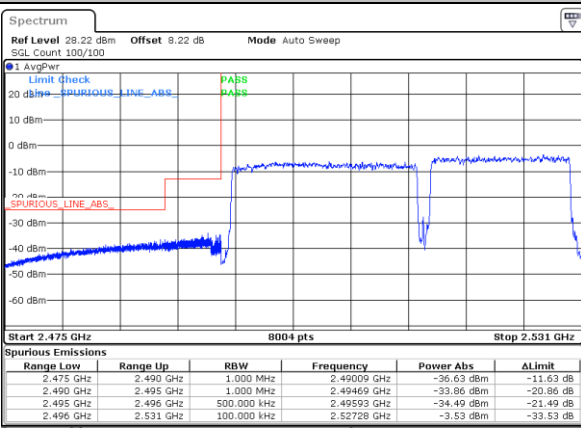


Date: 15.MAY.2024 02:15:51

Date: 15.MAY.2024 02:31:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:23:04

Date: 15.MAY.2024 02:39:01

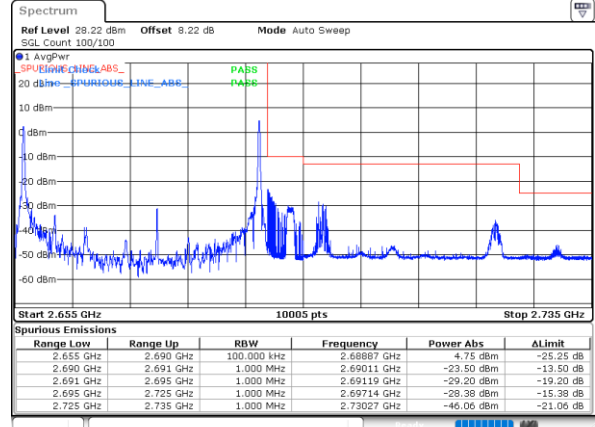
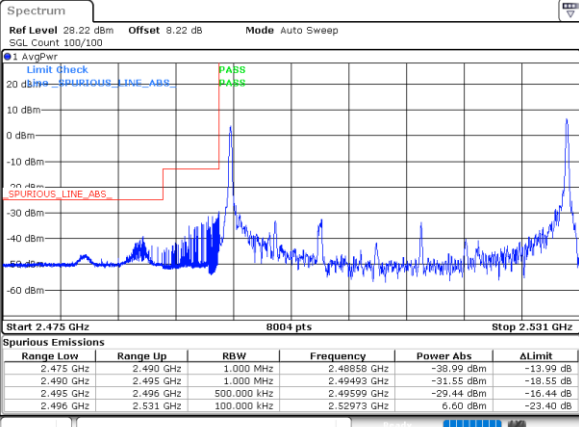


LTE Band 41C / 20MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

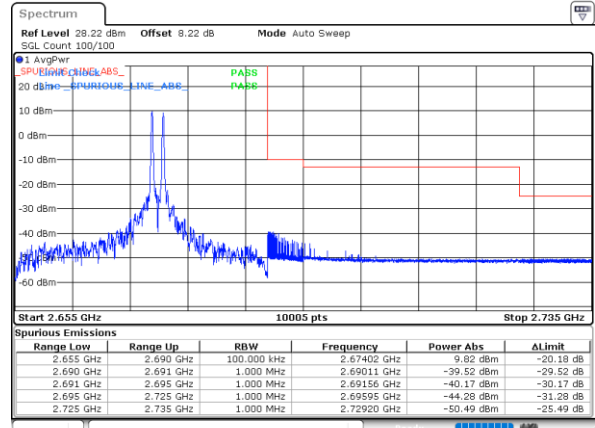
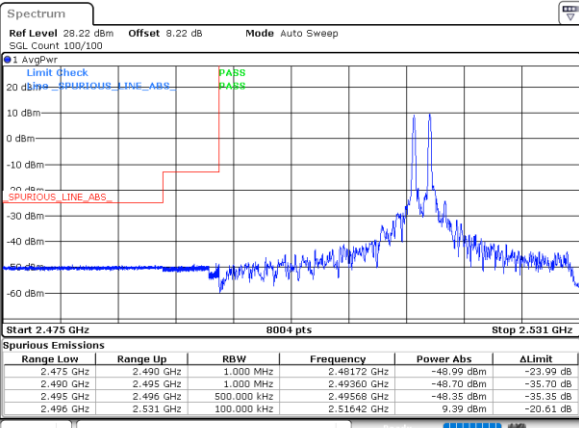


Date: 15.MAY.2024 02:20:22

Date: 15.MAY.2024 02:16:19

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

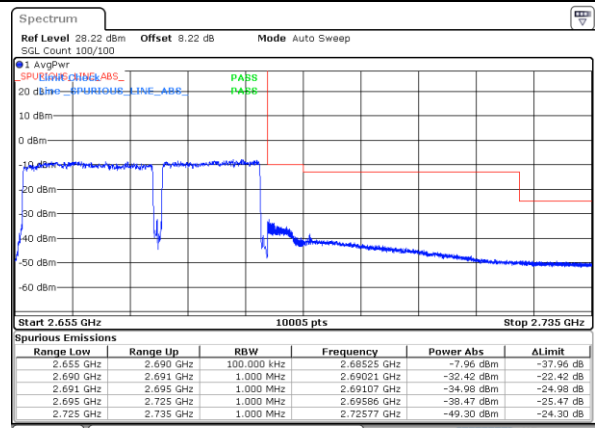
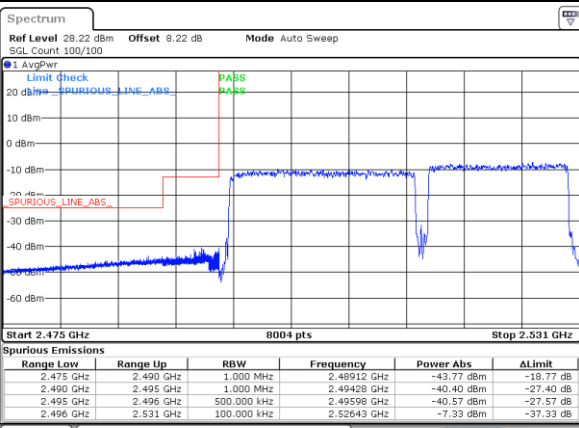


Date: 15.MAY.2024 02:16:45

Date: 15.MAY.2024 02:32:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:23:57

Date: 15.MAY.2024 02:39:55



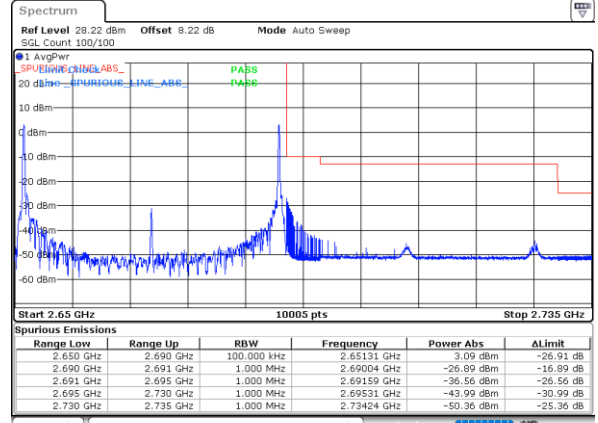
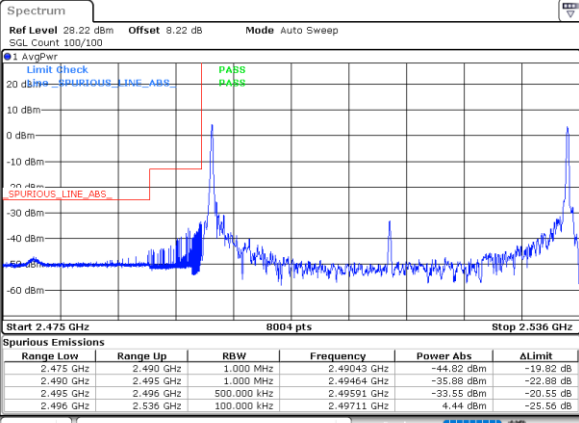


LTE Band 41C / 20MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Highest Band Edge / 1RB0 and 1RB99

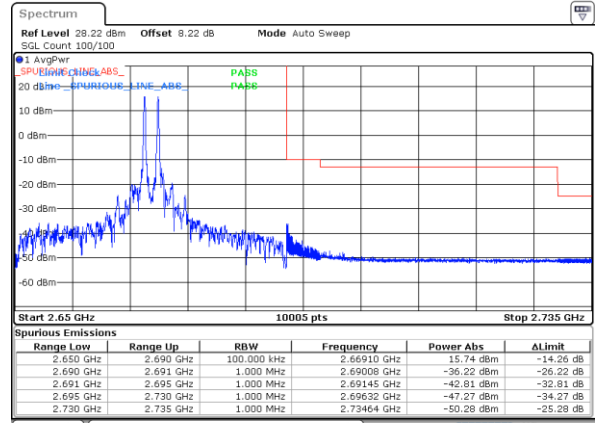
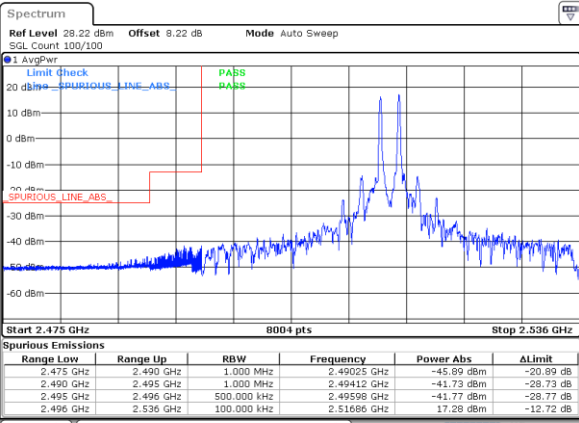


Date: 15.MAY.2024 02:47:04

Date: 15.MAY.2024 03:02:51

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

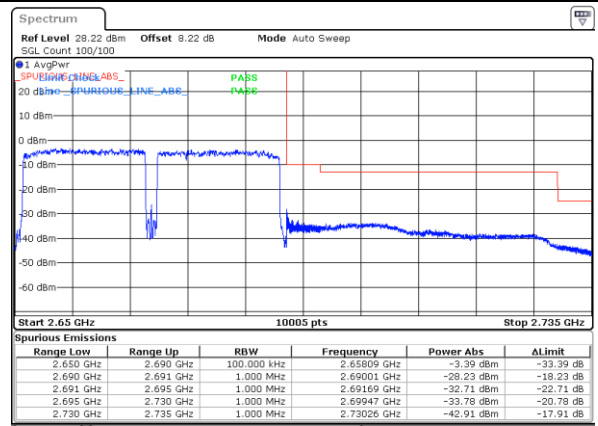
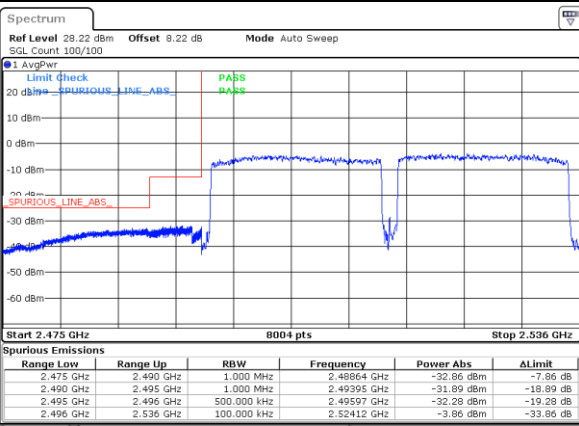


Date: 15.MAY.2024 02:43:25

Date: 15.MAY.2024 02:59:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:50:42

Date: 15.MAY.2024 03:06:28



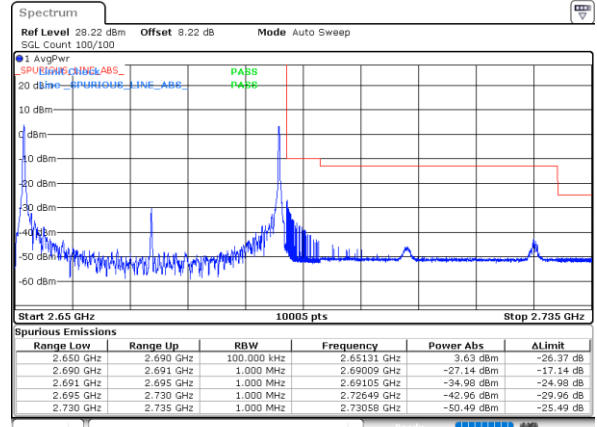
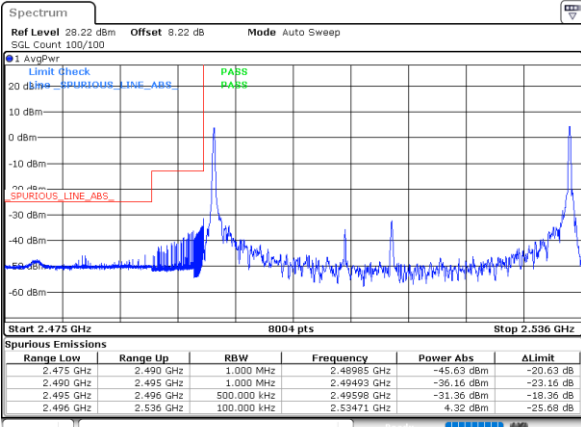


LTE Band 41C / 20MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

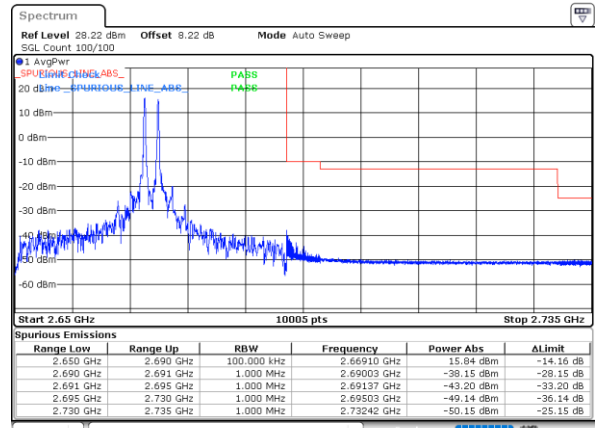
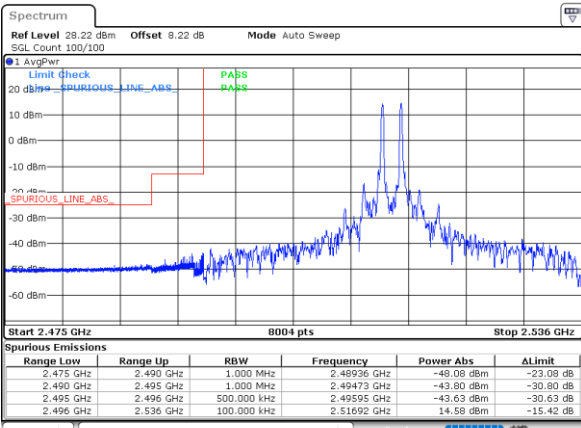


Date: 15.MAY.2024 03:17:46

Date: 15.MAY.2024 03:03:45

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

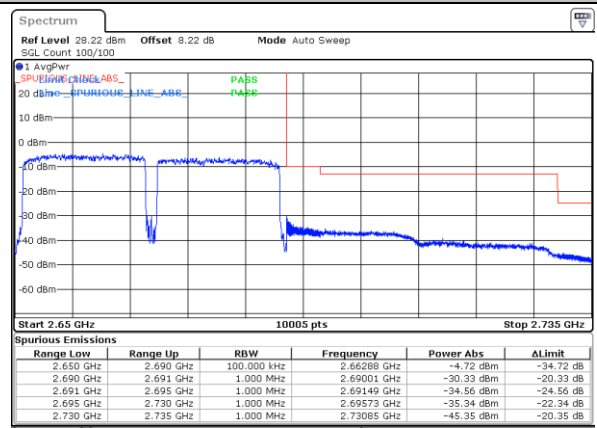
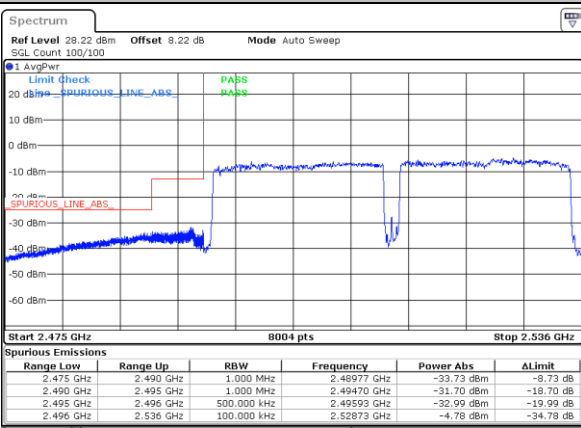


Date: 15.MAY.2024 02:44:18

Date: 15.MAY.2024 03:00:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:51:37

Date: 15.MAY.2024 03:07:22

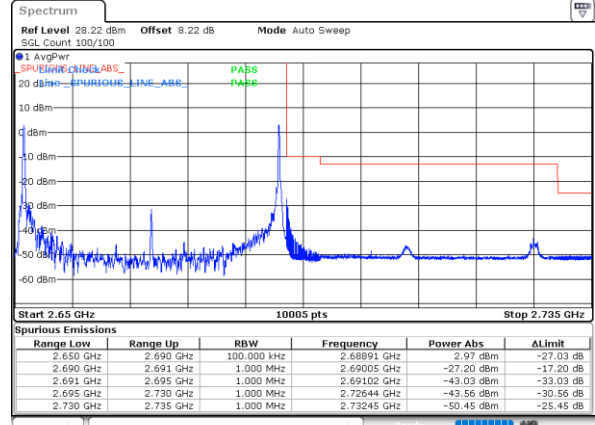
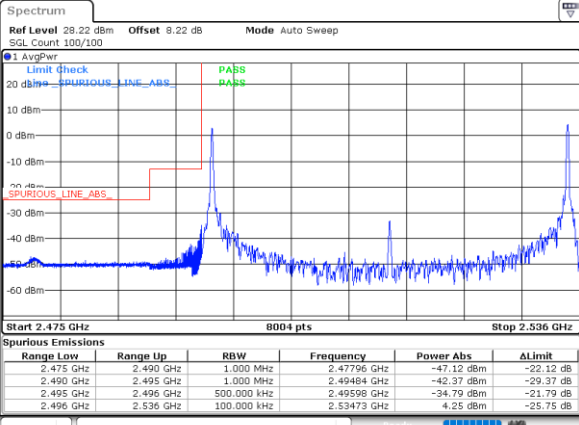


LTE Band 41C / 20MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

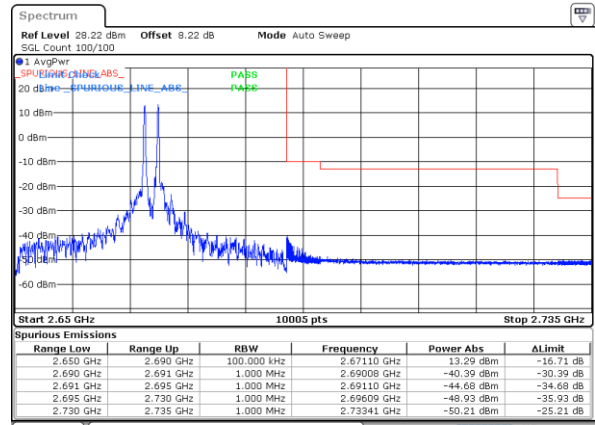
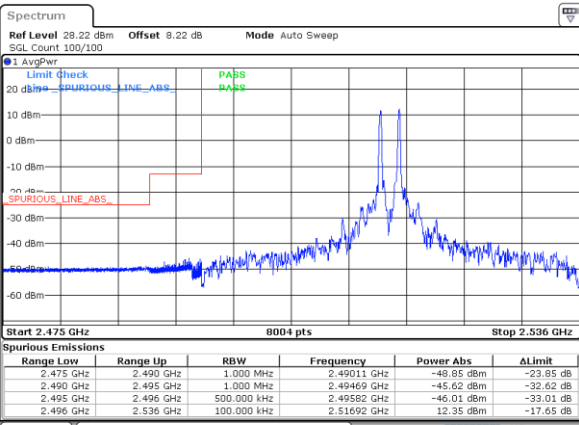


Date: 15.MAY.2024 02:48:54

Date: 15.MAY.2024 03:04:39

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

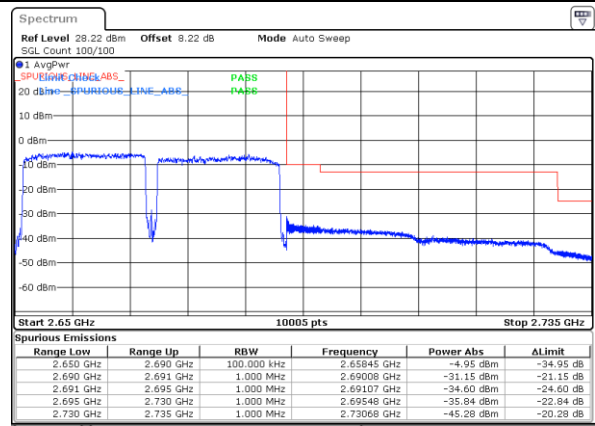
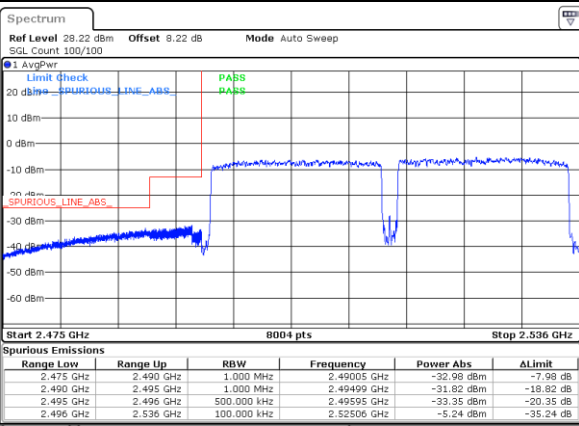


Date: 15.MAY.2024 02:45:13

Date: 15.MAY.2024 03:01:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:52:31

Date: 15.MAY.2024 03:08:17

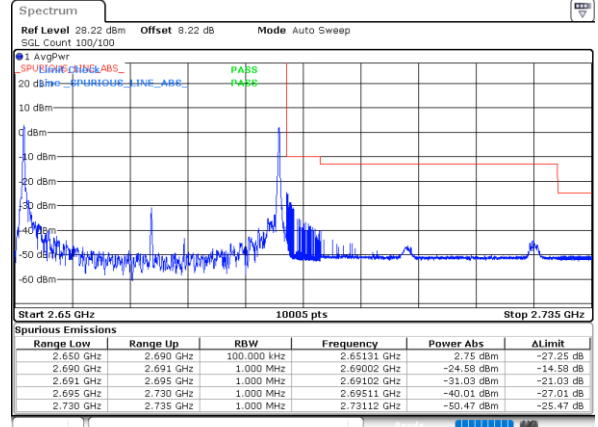
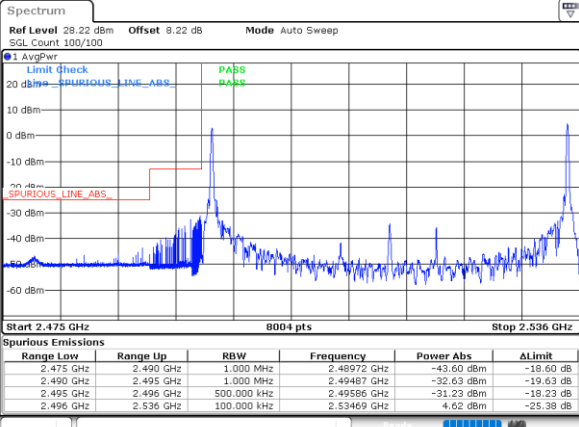


LTE Band 41C / 20MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

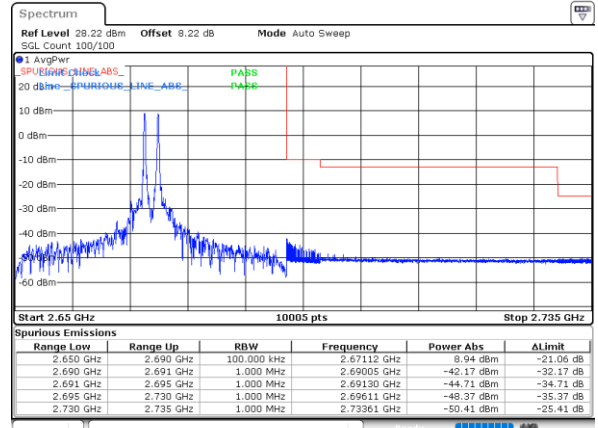
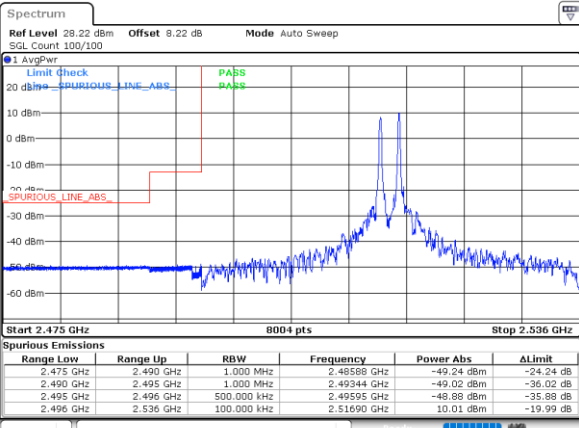


Date: 15.MAY.2024 02:49:47

Date: 15.MAY.2024 03:05:33

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

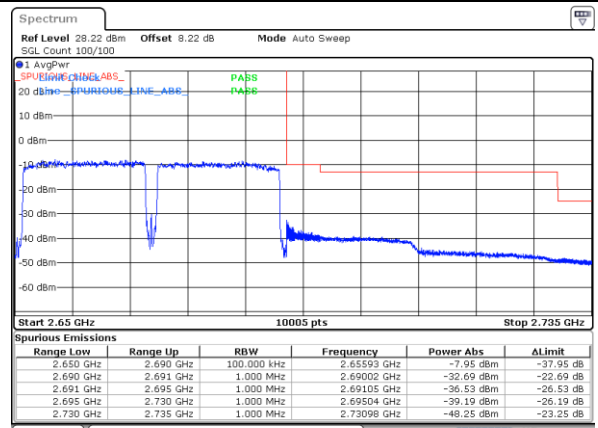
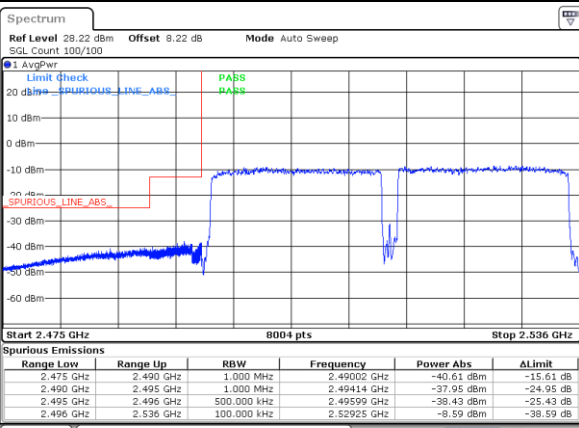


Date: 15.MAY.2024 02:46:06

Date: 15.MAY.2024 03:01:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2024 02:53:25

Date: 15.MAY.2024 03:09:11

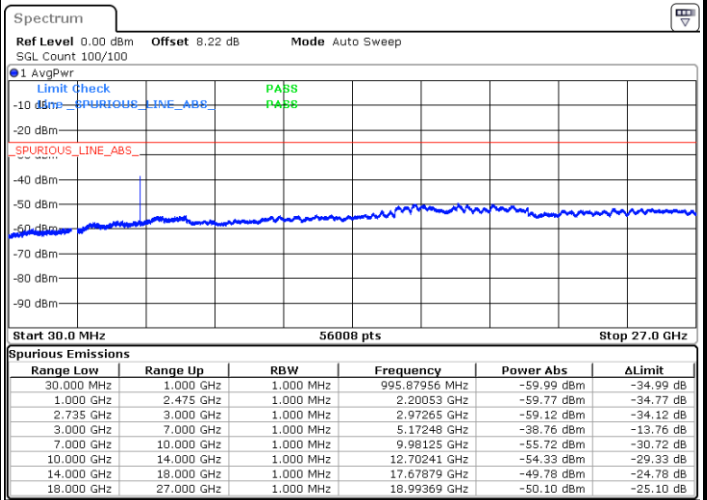
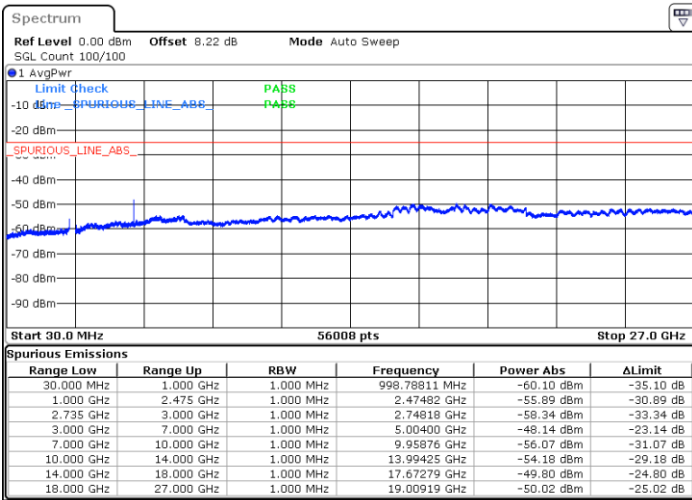


# Conducted Spurious Emission

## LTE Band 41C / 5MHz+20MHz

### Lowest Channel / QPSK

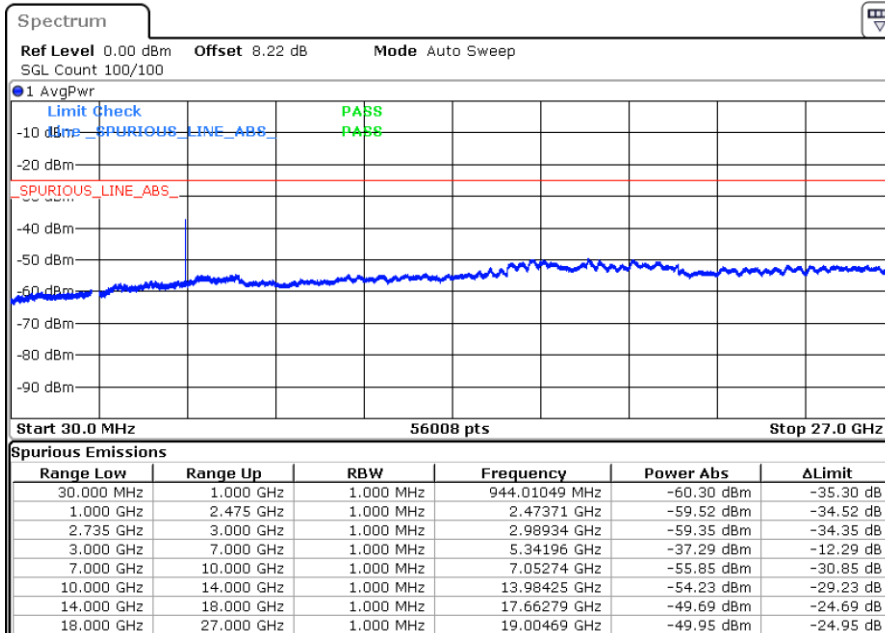
### Middle Channel / QPSK



Date: 14.MAY.2024 20:55:51

Date: 14.MAY.2024 21:11:12

### Highest Channel / QPSK



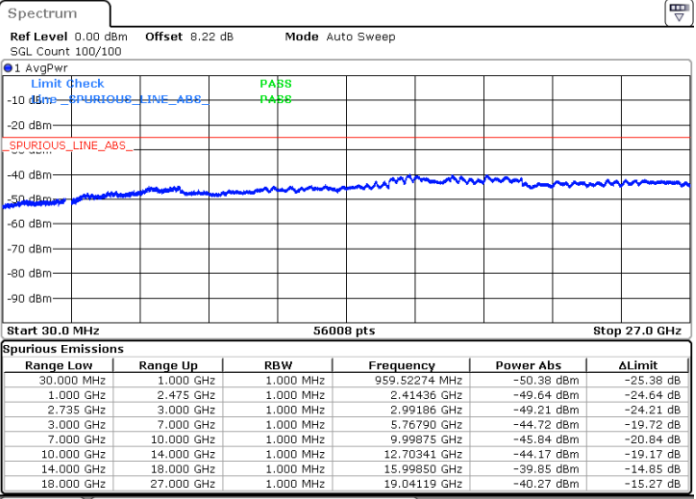
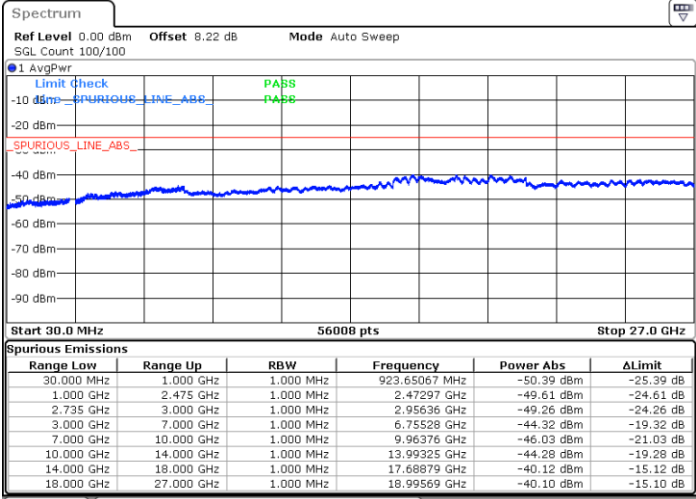
Date: 14.MAY.2024 21:15:56



LTE Band 41C / 10MHz+15MHz

Lowest Channel / QPSK

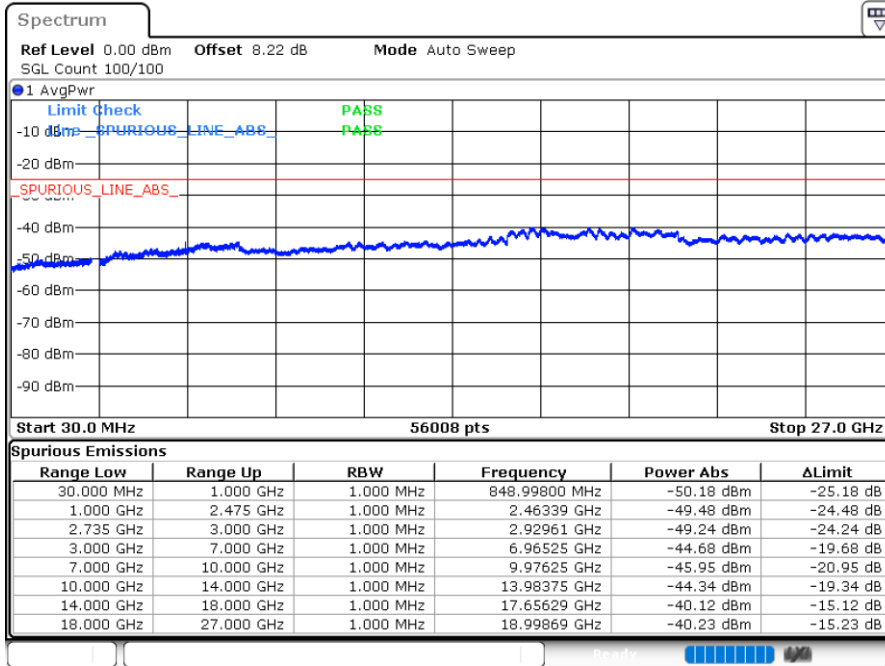
Middle Channel / QPSK



Date: 14.MAY.2024 21:29:26

Date: 14.MAY.2024 21:45:34

Highest Channel / QPSK



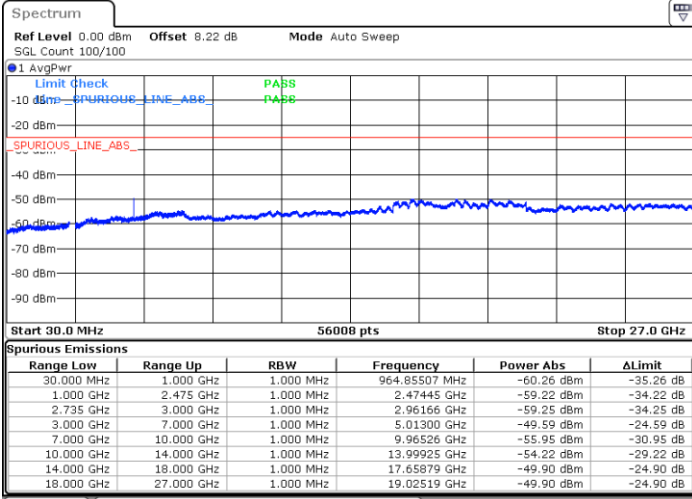
Date: 14.MAY.2024 21:49:56



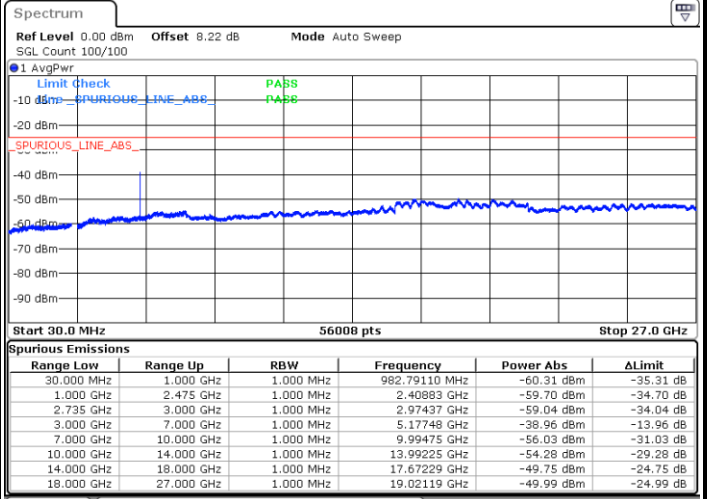
LTE Band 41C / 10MHz+20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

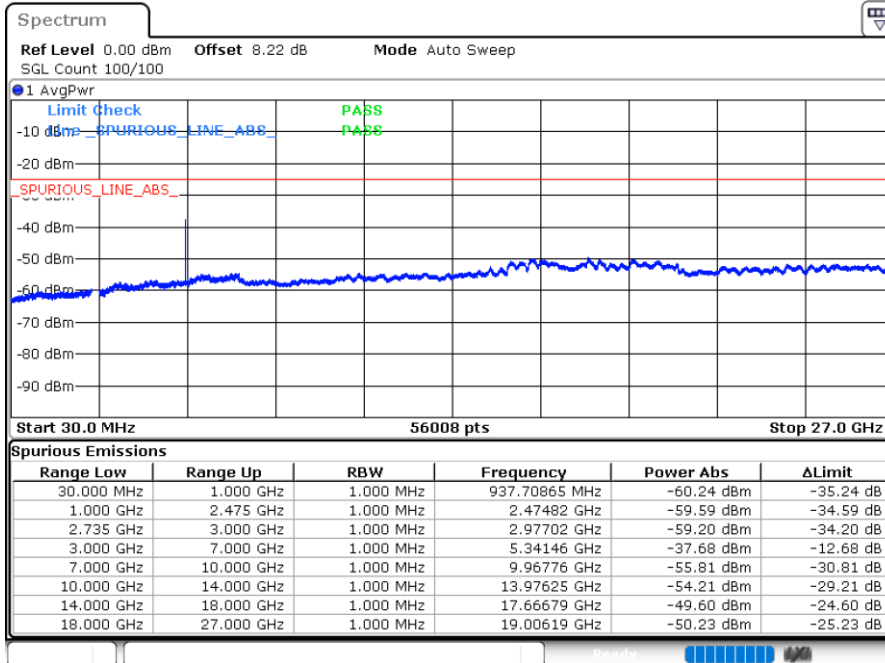


Date: 14.MAY.2024 22:04:29



Date: 15.MAY.2024 03:50:09

Highest Channel / QPSK



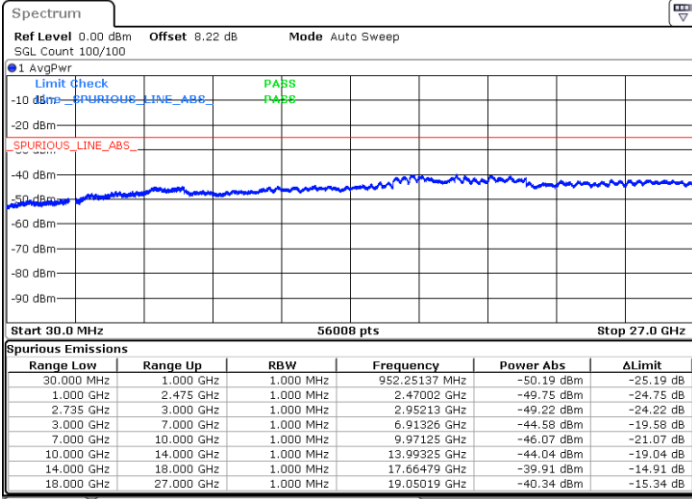
Date: 14.MAY.2024 22:23:13



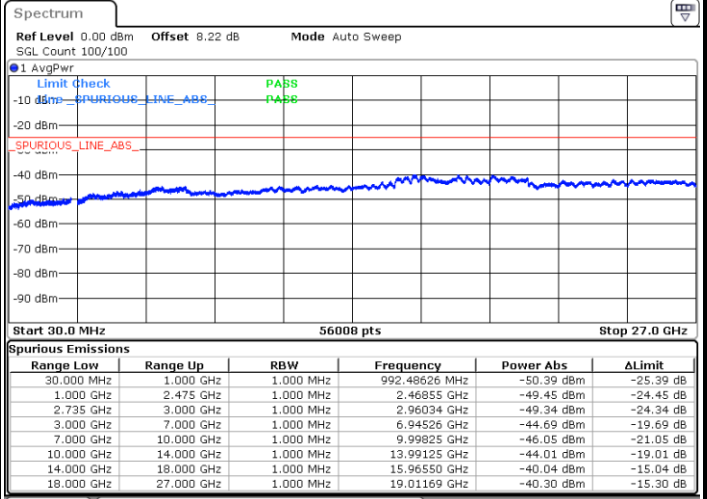
LTE Band 41C / 15MHz+10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

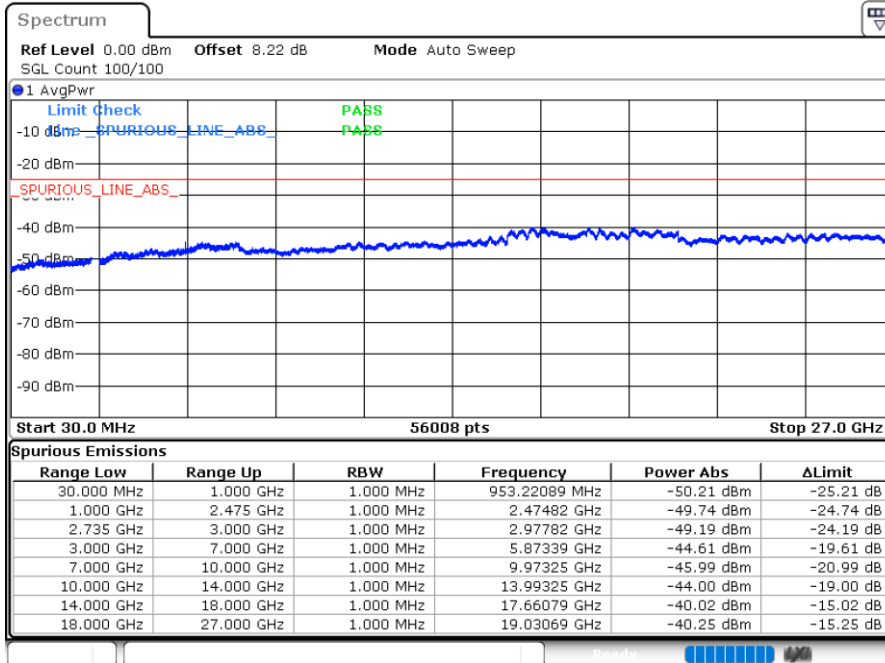


Date: 14.MAY.2024 22:39:34



Date: 14.MAY.2024 22:52:58

Highest Channel / QPSK



Date: 14.MAY.2024 22:57:15

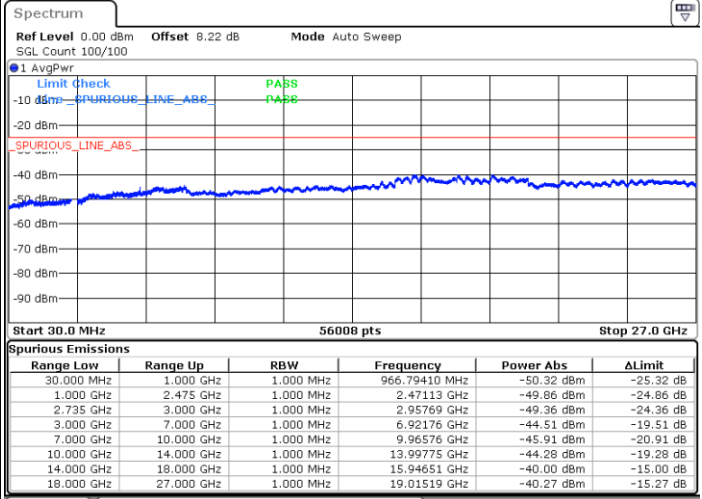
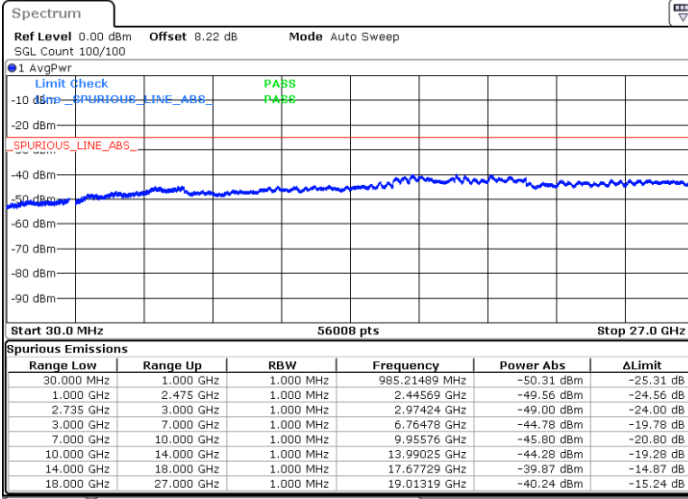




LTE Band 41C / 15MHz+15MHz

Lowest Channel / QPSK

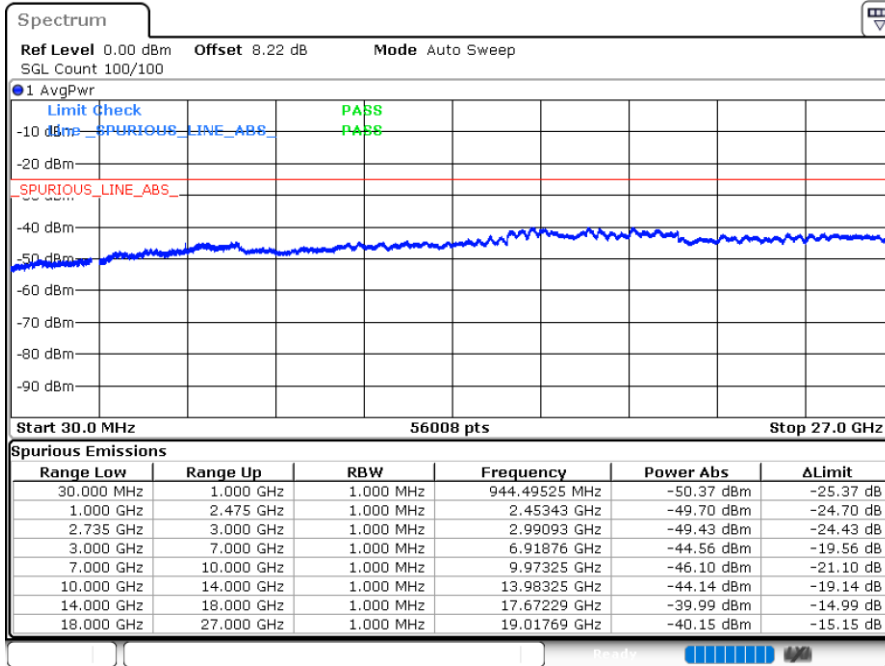
Middle Channel / QPSK



Date: 14.MAY.2024 23:28:26

Date: 14.MAY.2024 23:42:03

Highest Channel / QPSK



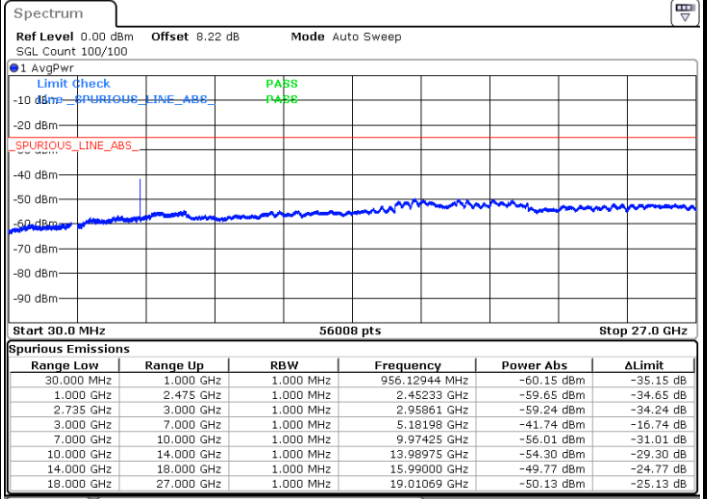
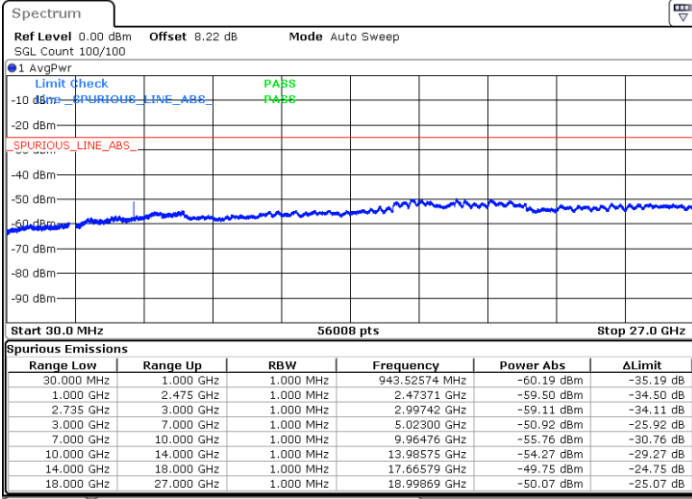
Date: 14.MAY.2024 23:45:01



LTE Band 41C / 15MHz+20MHz

Lowest Channel / QPSK

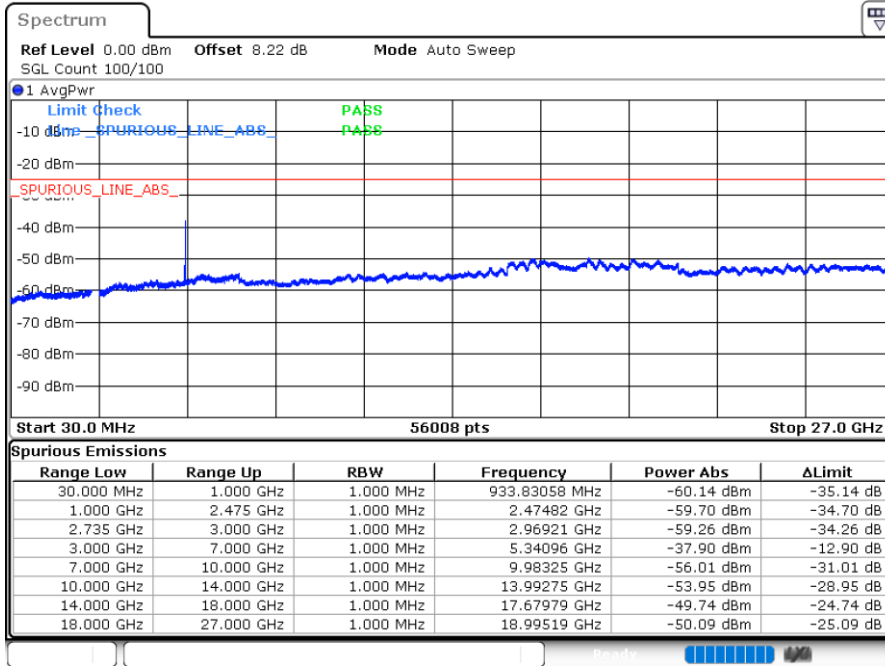
Middle Channel / QPSK



Date: 15.MAY.2024 00:29:59

Date: 15.MAY.2024 00:49:08

Highest Channel / QPSK



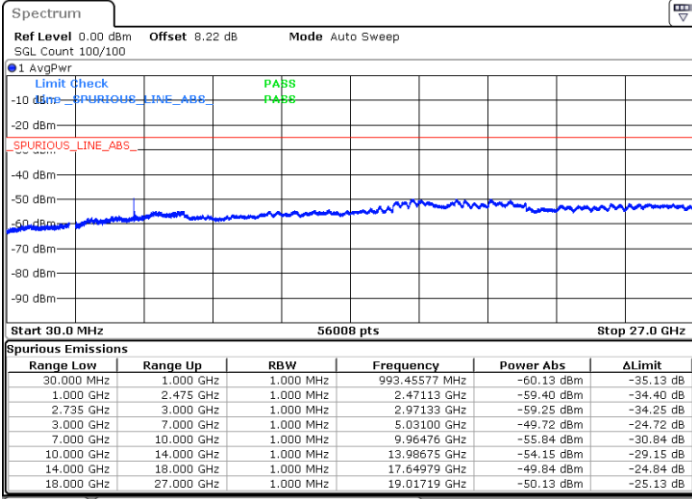
Date: 15.MAY.2024 00:52:09



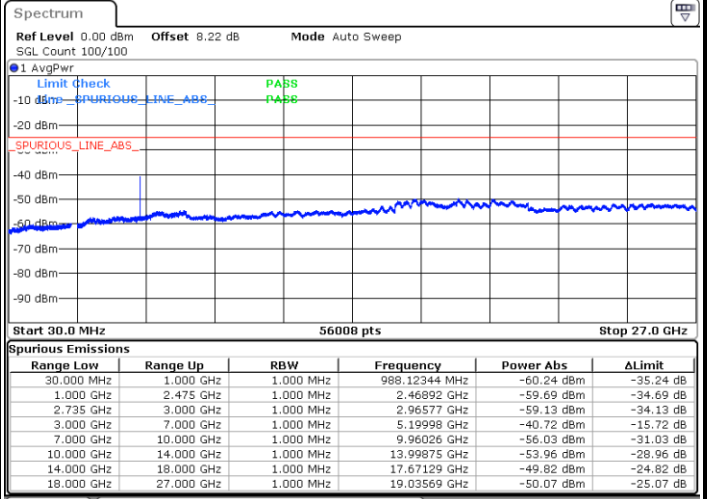
LTE Band 41C / 20MHz+5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

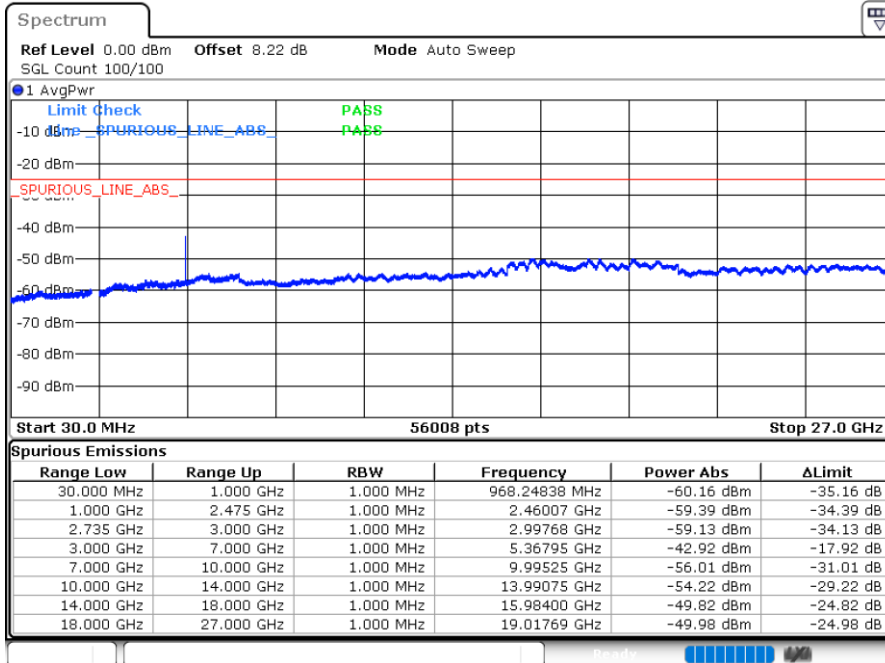


Date: 15.MAY.2024 01:05:38



Date: 15.MAY.2024 01:22:47

Highest Channel / QPSK



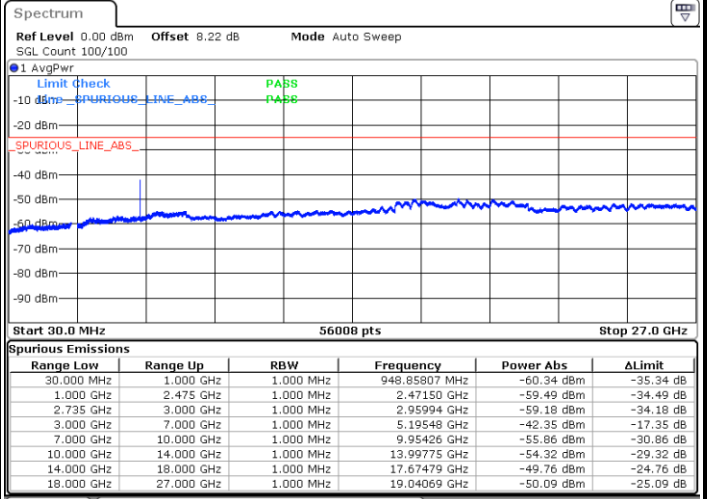
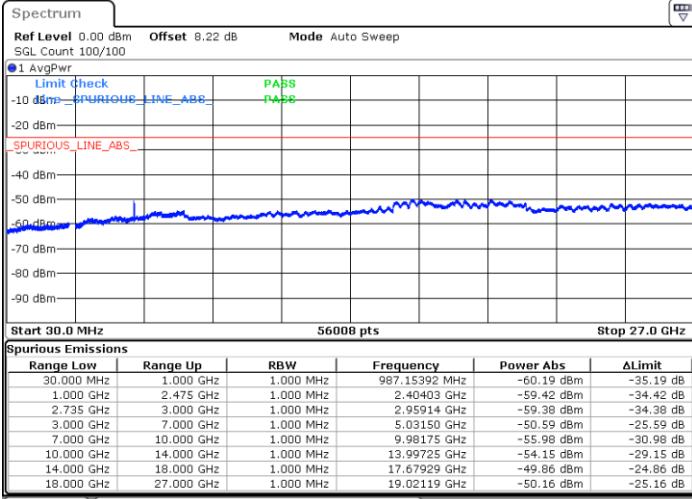
Date: 15.MAY.2024 01:27:19



LTE Band 41C / 20MHz+10MHz

Lowest Channel / QPSK

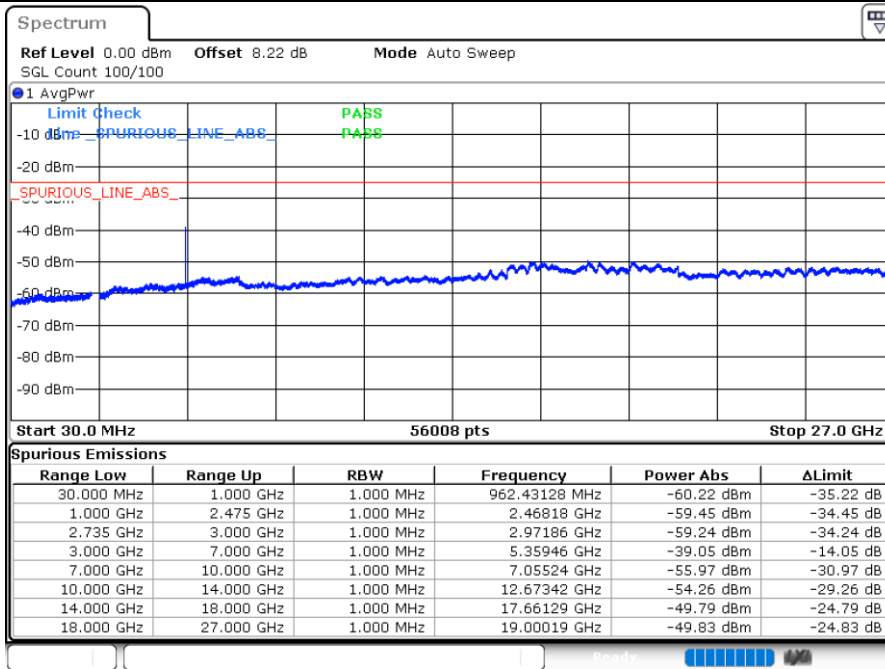
Middle Channel / QPSK



Date: 15.MAY.2024 01:40:37

Date: 15.MAY.2024 01:55:29

Highest Channel / QPSK



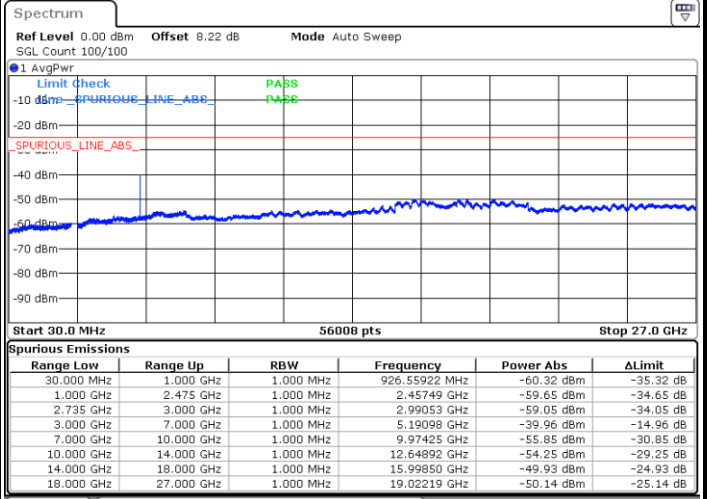
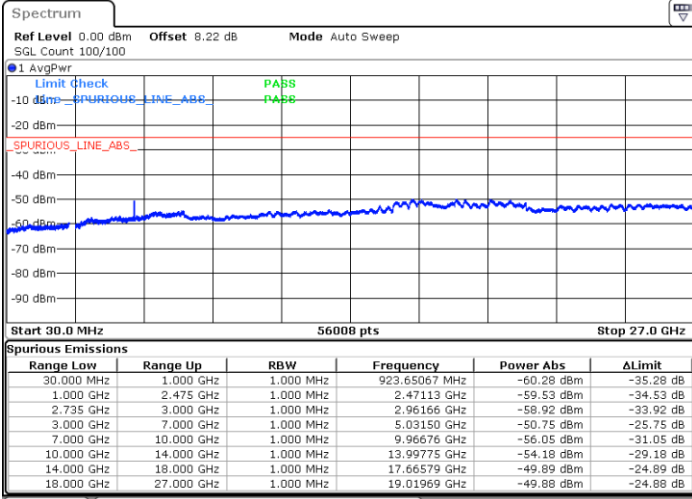
Date: 15.MAY.2024 01:59:33



LTE Band 41C / 20MHz+15MHz

Lowest Channel / QPSK

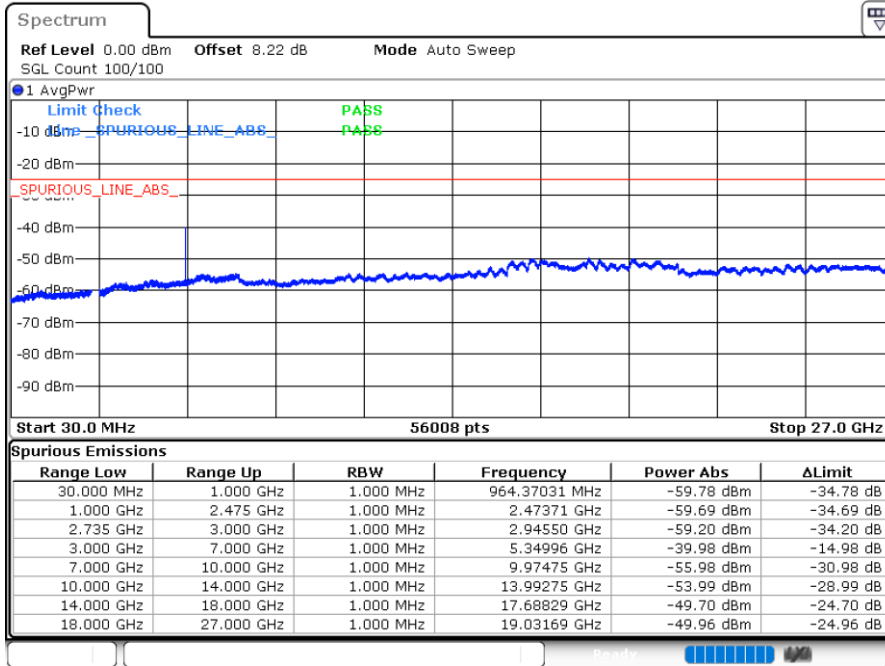
Middle Channel / QPSK



Date: 15.MAY.2024 02:13:10

Date: 15.MAY.2024 02:26:49

Highest Channel / QPSK



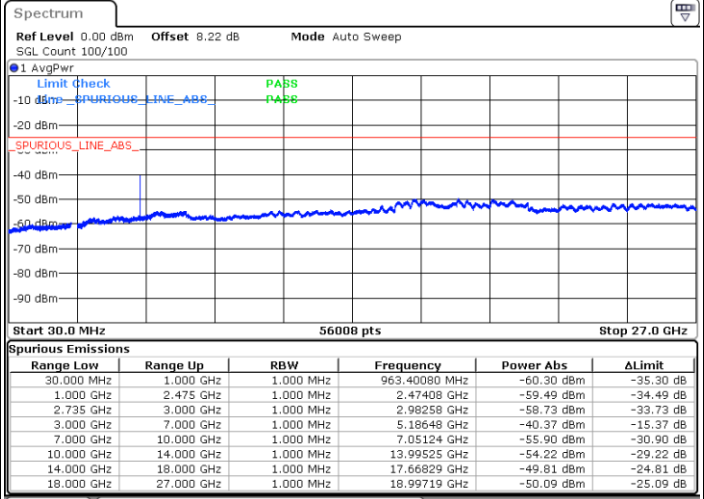
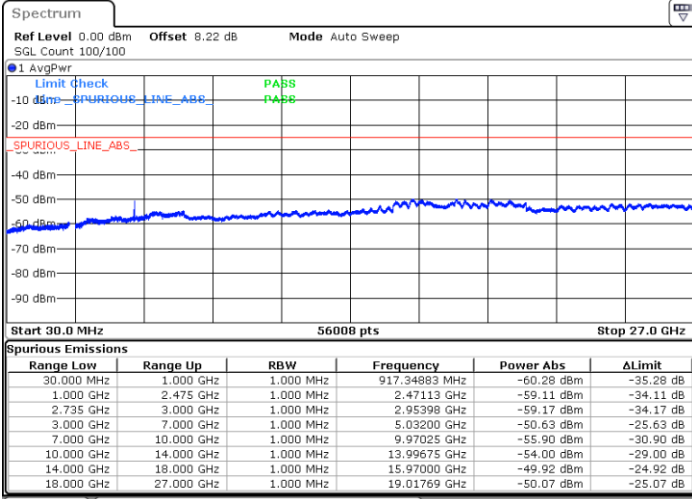
Date: 15.MAY.2024 02:29:09



LTE Band 41C / 20MHz+20MHz

Lowest Channel / QPSK

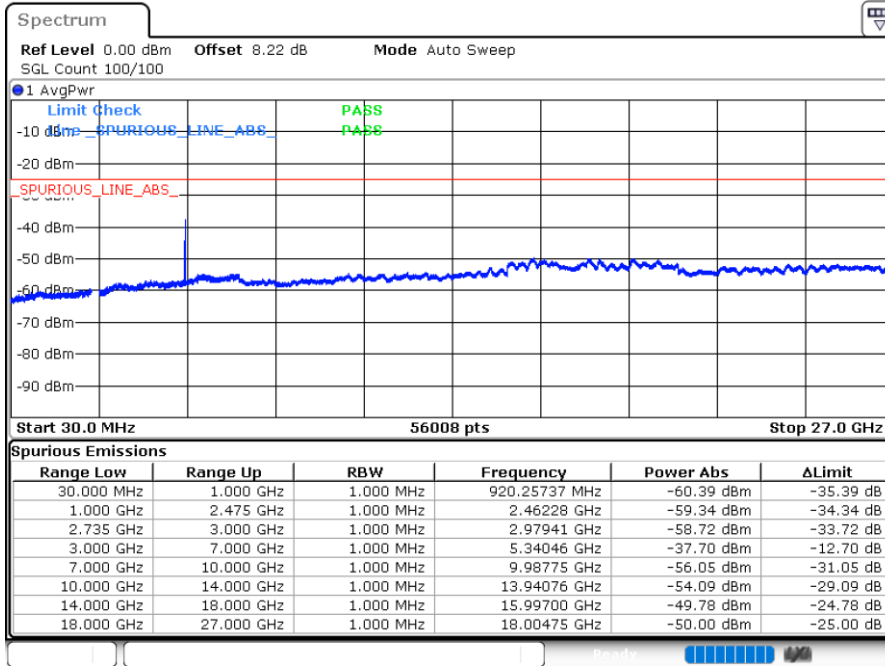
Middle Channel / QPSK



Date: 15.MAY.2024 02:42:31

Date: 15.MAY.2024 02:55:31

Highest Channel / QPSK



Date: 15.MAY.2024 02:58:23



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.5V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	Ried Huang	Temperature :	22~25°C
		Relative Humidity :	48~52%

DC_7A_n5A / 1.4MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
LTE Band 7 Middle	5052.18	-61.86	-25	-36.86	-79.28	-67.42	7.14	12.70	H
	7578.27	-56.54	-25	-31.54	-78.73	-59.84	8.30	11.60	H
	10104.36	-52.50	-25	-27.50	-79.59	-54.02	10.48	12.00	H
	5052.18	-62.28	-25	-37.28	-79.63	-67.84	7.14	12.70	V
	7578.27	-56.70	-25	-31.70	-78.69	-60.00	8.30	11.60	V
	10104.36	-52.98	-25	-27.98	-79.58	-54.50	10.48	12.00	V
5G NR n5 Middle	1654.5	-67.37	-13	-54.37	-73.65	-72.77	4.00	9.40	H
	2481.75	-65.27	-13	-52.27	-75.59	-70.99	4.88	10.60	H
	3309	-64.03	-13	-51.03	-76.36	-71.11	5.52	12.60	H
	1654.5	-67.72	-13	-54.72	-73.85	-73.12	4.00	9.40	V
	2481.75	-64.88	-13	-51.88	-75.56	-70.60	4.88	10.60	V
	3309	-63.48	-13	-50.48	-76.25	-70.56	5.52	12.60	V

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

LTE Band 41 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168.00	-51.41	-25	-26.41	-68.93	-56.97	7.14	12.70	H
	7752.00	-47.71	-25	-22.71	-70.37	-51.01	8.30	11.60	H
	10336.00	-42.64	-25	-17.64	-69.65	-44.16	10.48	12.00	H
	5168.00	-42.82	-25	-17.82	-60.29	-48.38	7.14	12.70	V
	7752.00	-49.10	-25	-24.10	-71.73	-52.40	8.30	11.60	V
	10336.00	-42.41	-25	-17.41	-69.19	-43.93	10.48	12.00	V

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



LTE CA_41C / 20MHz+20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5186.00	-52.39	-25	-27.39	-69.93	-57.95	7.14	12.70	H
	7779.00	-55.42	-25	-30.42	-78.18	-58.72	8.30	11.60	H
	10372.00	-51.56	-25	-26.56	-78.56	-53.08	10.48	12.00	H
	5186.00	-52.21	-25	-27.21	-69.7	-57.77	7.14	12.70	V
	7779.00	-55.77	-25	-30.77	-78.53	-59.07	8.30	11.60	V
	10372.00	-52.10	-25	-27.10	-78.92	-53.62	10.48	12.00	V

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