

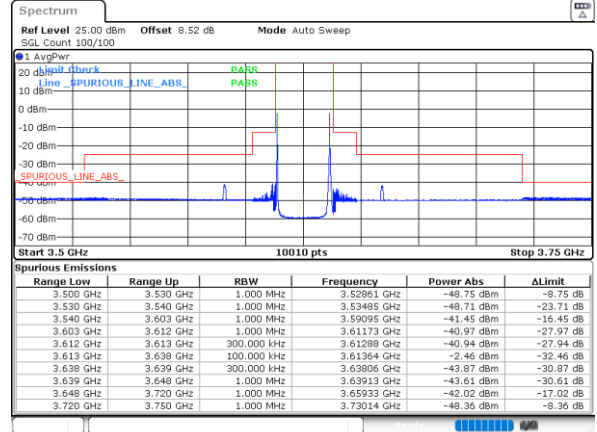
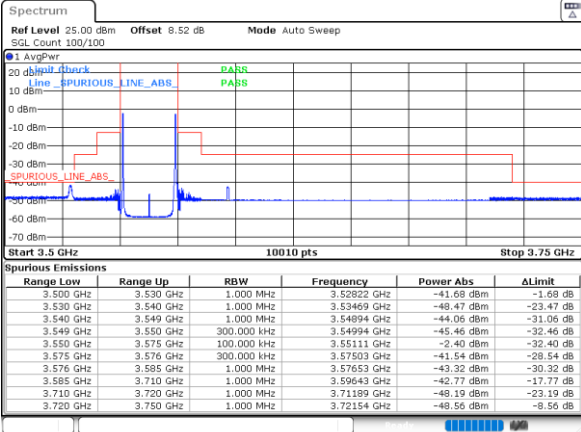


LTE Band 48C / 5MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

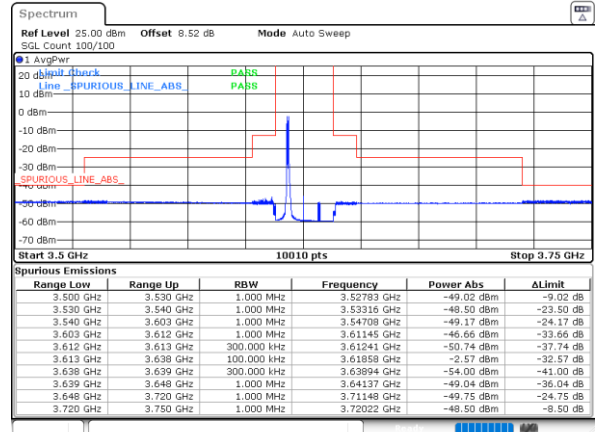
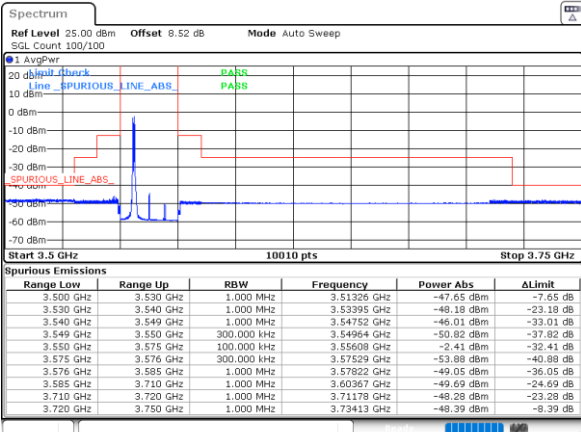


Date: 16.MAY.2023 19:07:17

Date: 16.MAY.2023 19:47:36

Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0

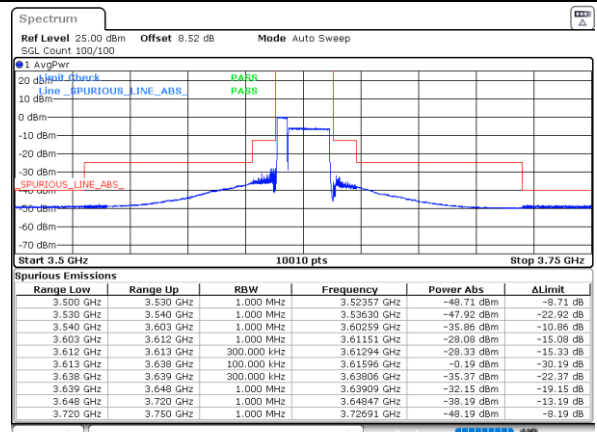
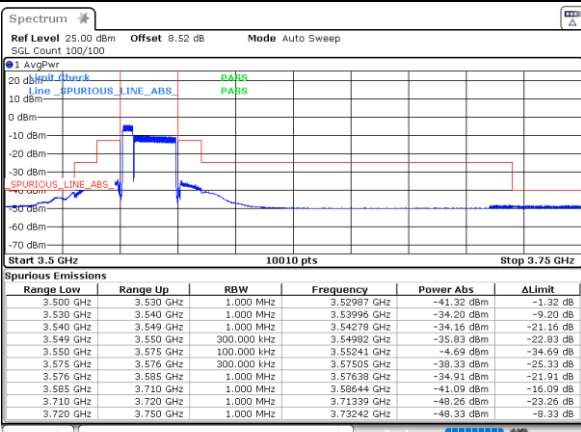


Date: 16.MAY.2023 19:17:09

Date: 16.MAY.2023 19:57:37

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 16.MAY.2023 19:27:09

Date: 16.MAY.2023 19:37:16

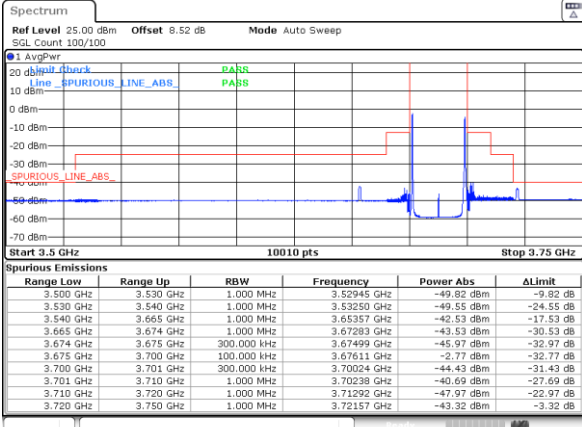


LTE Band 48C / 5MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

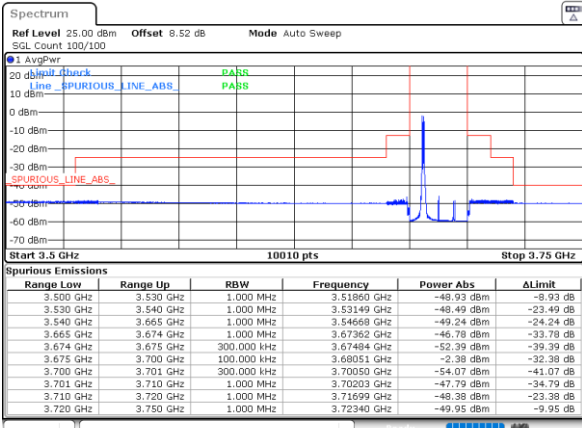
N/A



Date: 17.MAY.2023 19:37:10

Highest Band Edge / 1RB24 and 1RB0

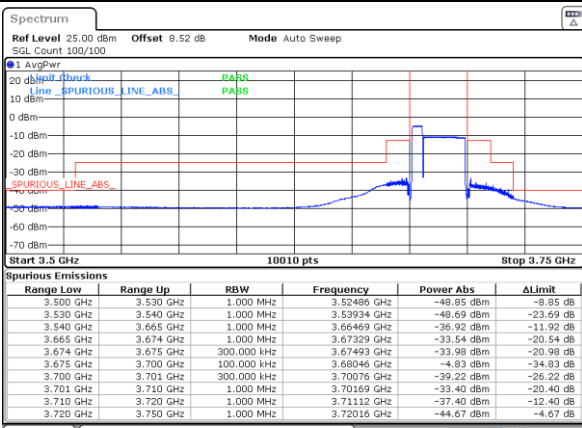
N/A



Date: 16.MAY.2023 20:07:42

Highest Band Edge / Full RB

N/A



Date: 16.MAY.2023 20:27:38

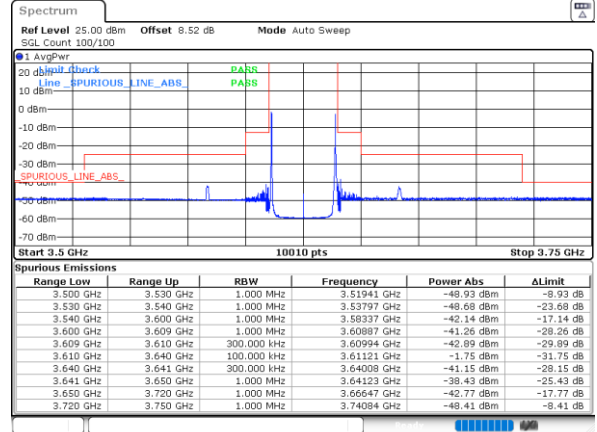
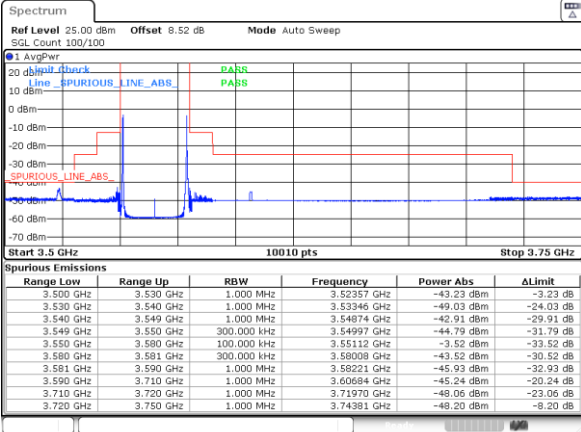


LTE Band 48C / 10MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

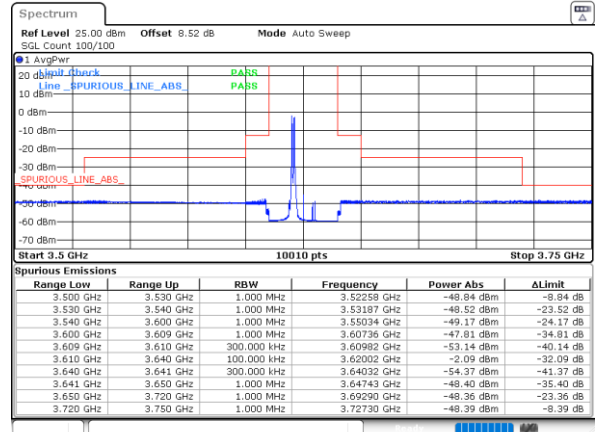
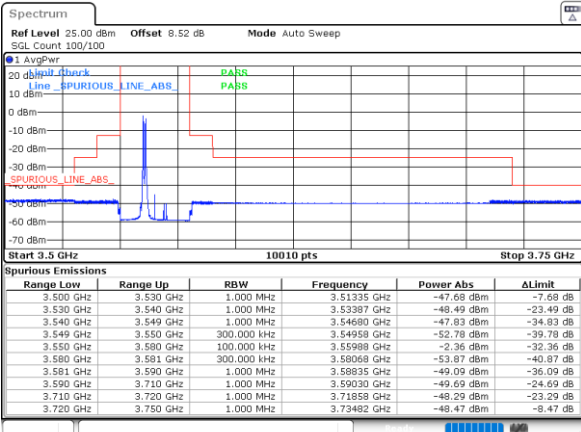


Date: 17.MAY.2023 20:14:20

Date: 16.MAY.2023 21:17:27

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

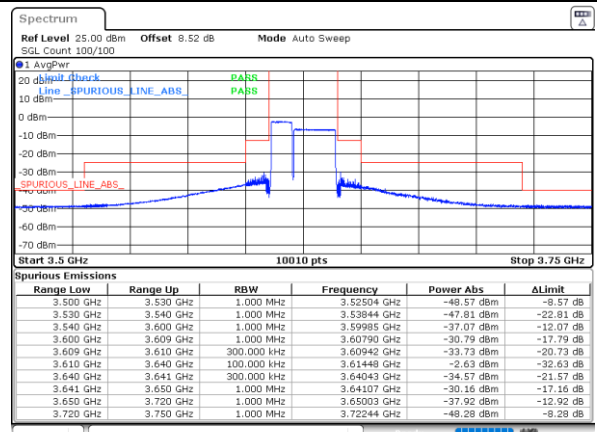
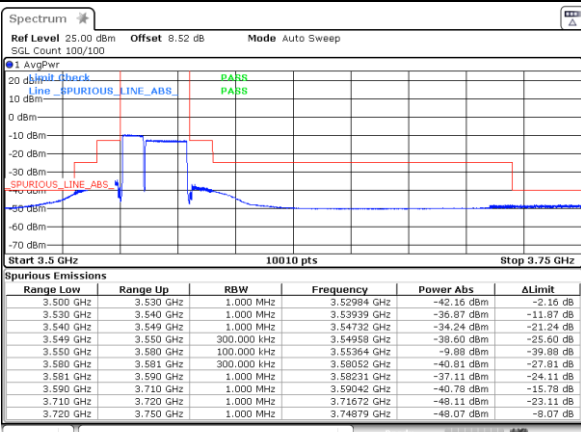


Date: 16.MAY.2023 20:57:41

Date: 16.MAY.2023 21:07:38

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 17.MAY.2023 19:55:04

Date: 16.MAY.2023 21:27:18

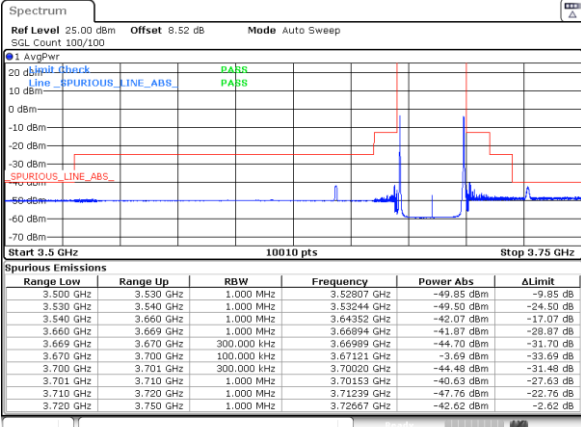


LTE Band 48C / 10MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

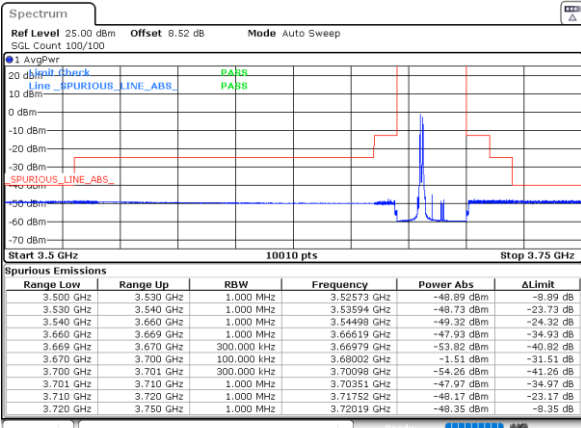
N/A



Date: 17.MAY.2023 20:24:21

Highest Band Edge / 1RB49 and 1RB0

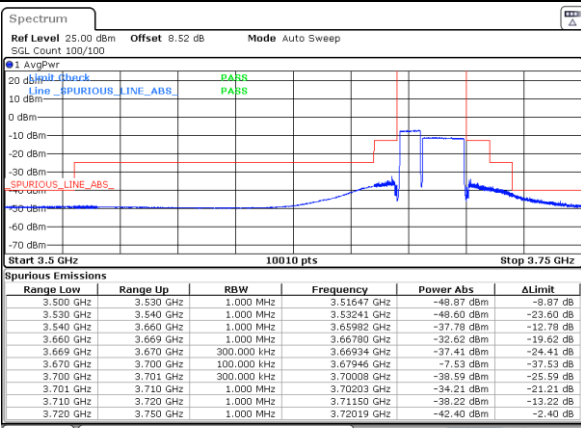
N/A



Date: 16.MAY.2023 21:56:52

Highest Band Edge / Full RB

N/A



Date: 16.MAY.2023 21:37:12

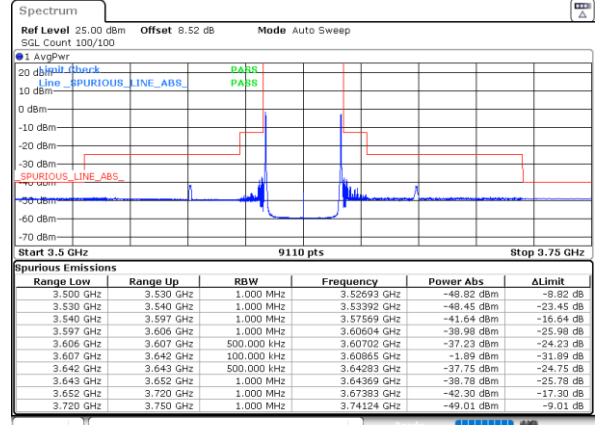
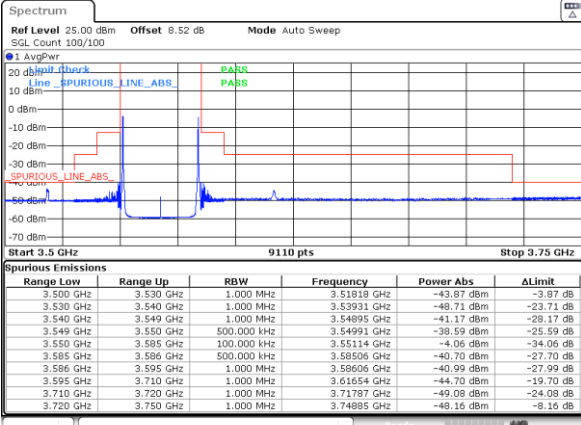


LTE Band 48C / 15MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

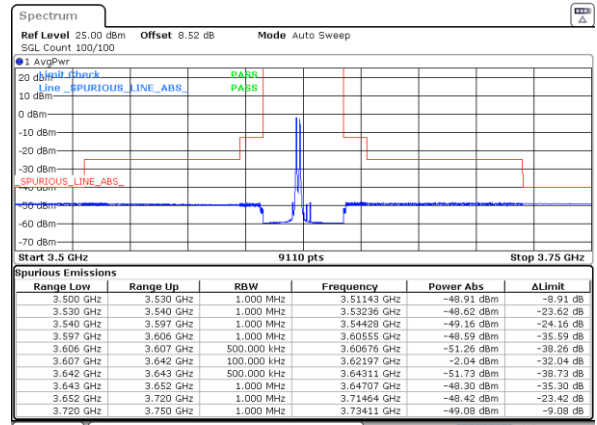
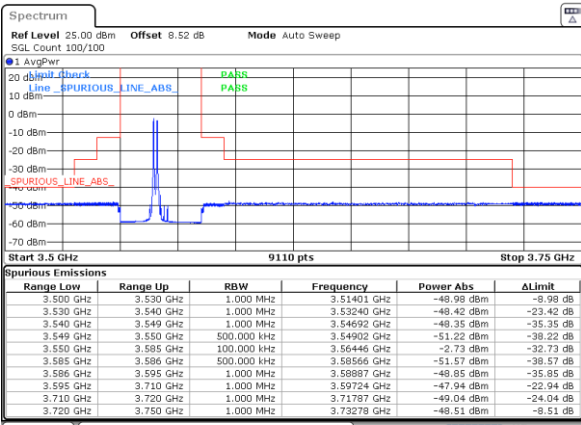


Date: 17, MAY, 2023 20:34:26

Date: 16, MAY, 2023 22:48:33

Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0

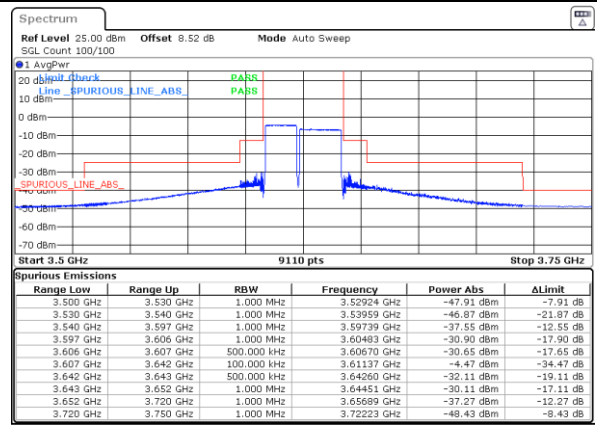
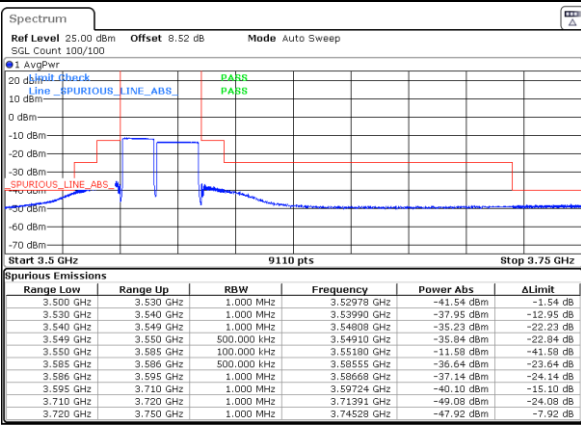


Date: 16, MAY, 2023 22:08:48

Date: 16, MAY, 2023 22:58:28

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 17, MAY, 2023 20:44:27

Date: 16, MAY, 2023 22:38:39

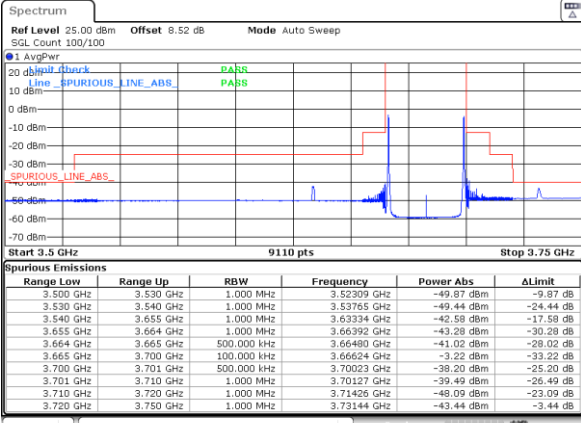


LTE Band 48C / 15MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

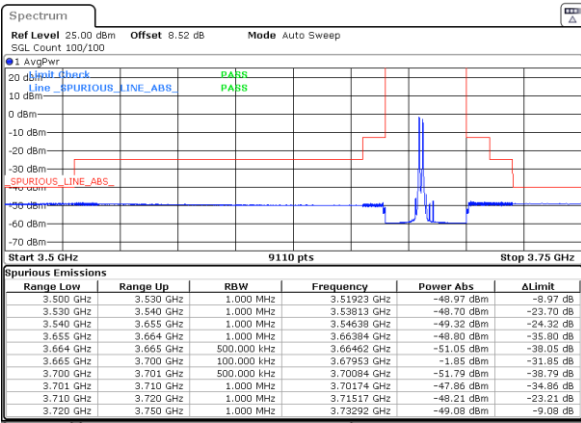
N/A



Date: 17.MAY.2023 20:54:32

Highest Band Edge / 1RB74 and 1RB0

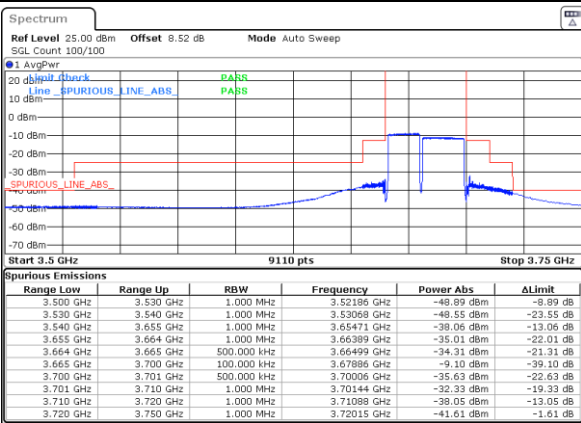
N/A



Date: 16.MAY.2023 23:08:26

Highest Band Edge / Full RB

N/A



Date: 16.MAY.2023 23:28:13

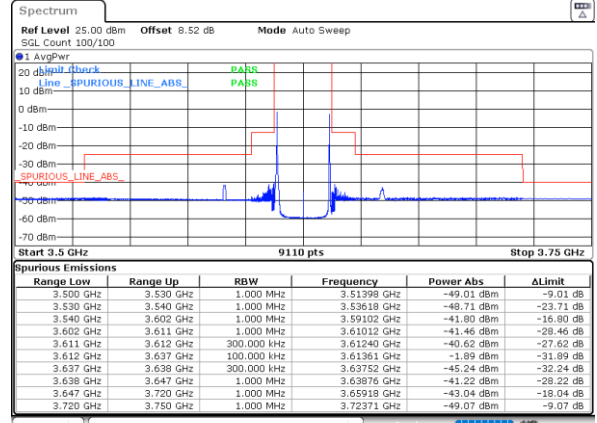
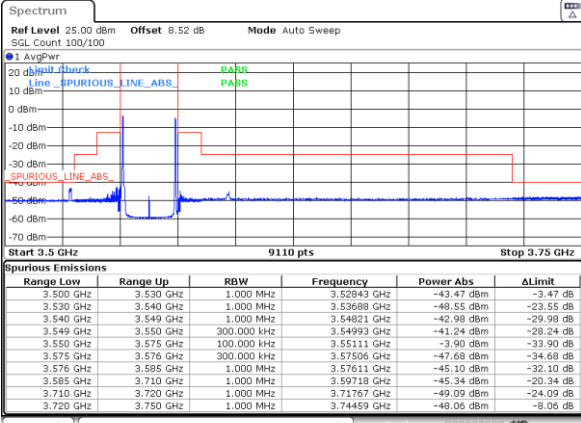


LTE Band 48C/ 20MHz+5MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB24

Middle Band Edge / 1RB0 and 1RB24

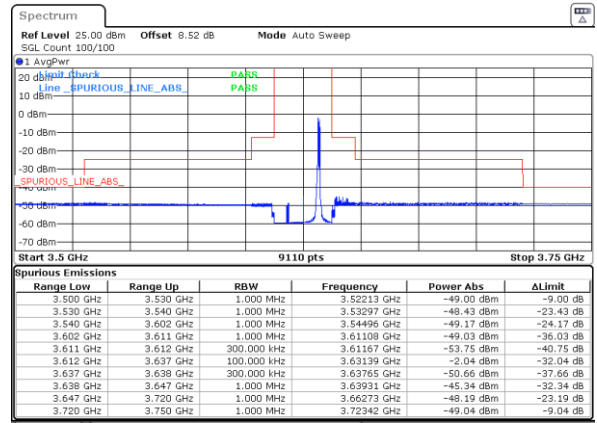
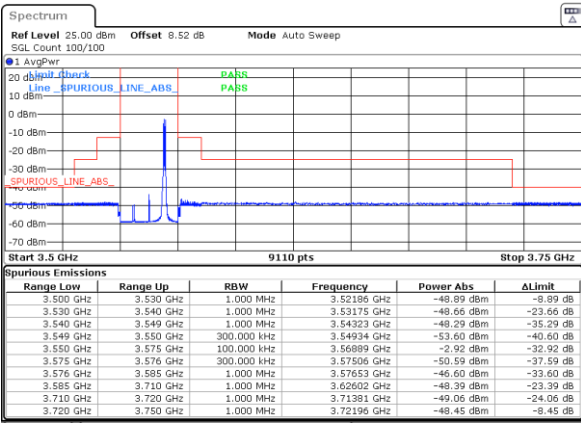


Date: 17.MAY.2023 21:04:37

Date: 17.MAY.2023 00:17:47

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

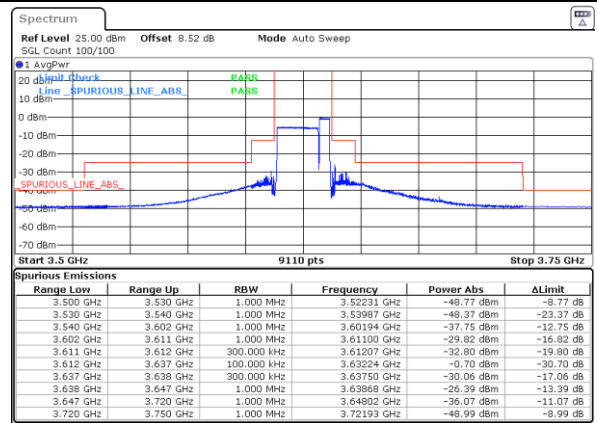
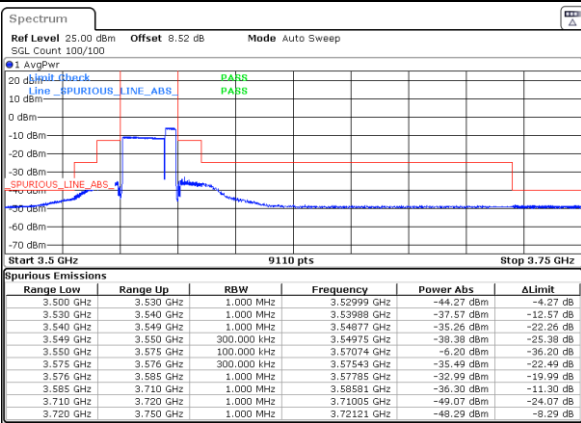


Date: 16.MAY.2023 23:57:55

Date: 17.MAY.2023 00:27:42

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 16.MAY.2023 23:38:09

Date: 17.MAY.2023 00:07:53

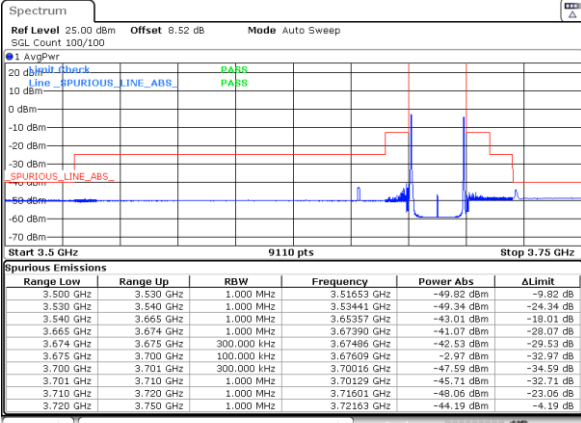


LTE Band 48C / 20MHz+5MHz

256QAM

Highest Band Edge / 1RB0 and 1RB24

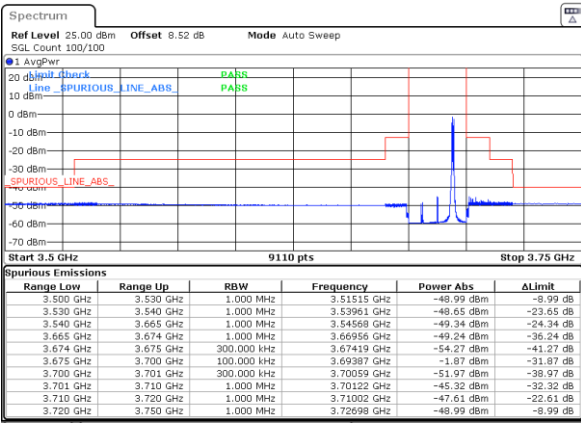
N/A



Date: 17\_MAY\_2023 21:14:42

Highest Band Edge / 1RB99 and 1RB0

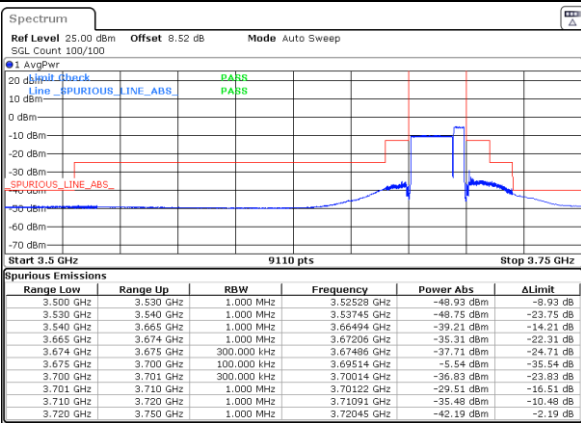
N/A



Date: 17\_MAY\_2023 00:57:26

Highest Band Edge / Full RB

N/A



Date: 17\_MAY\_2023 00:37:39



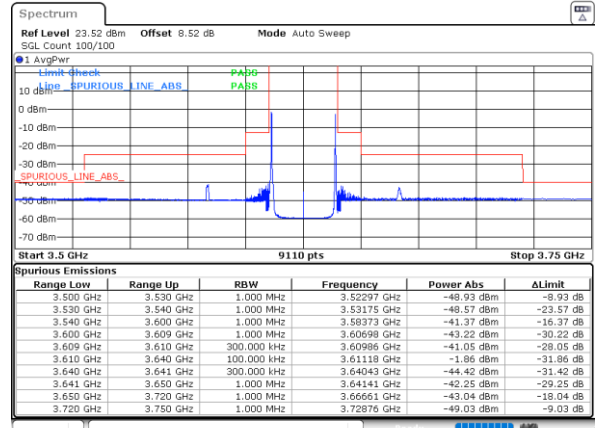
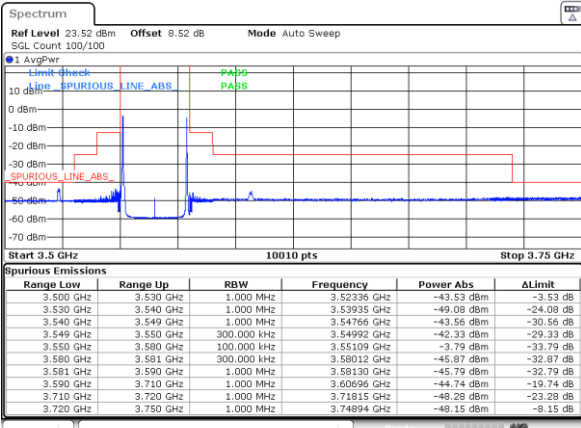


LTE Band 48C / 20MHz+10MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

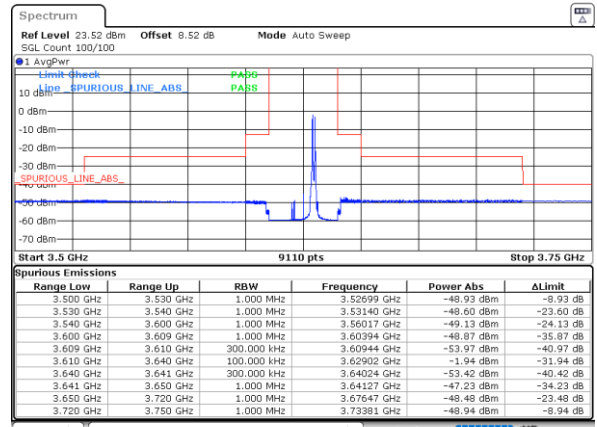
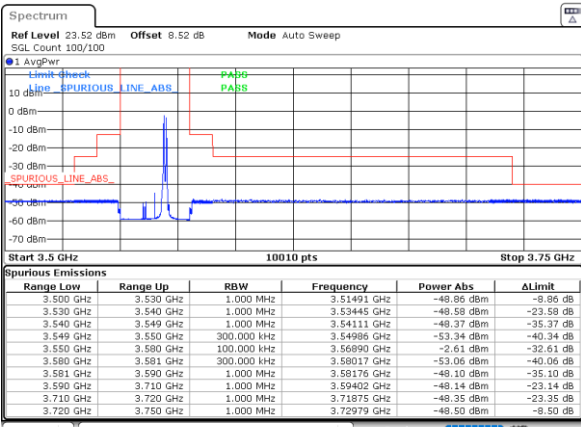


Date: 17.MAY.2023 21:24:46

Date: 17.MAY.2023 01:47:00

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

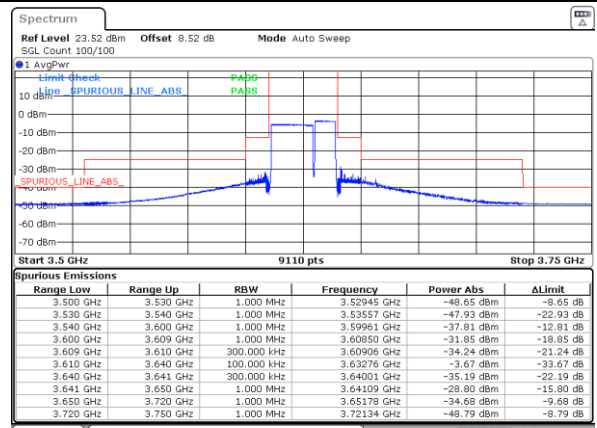
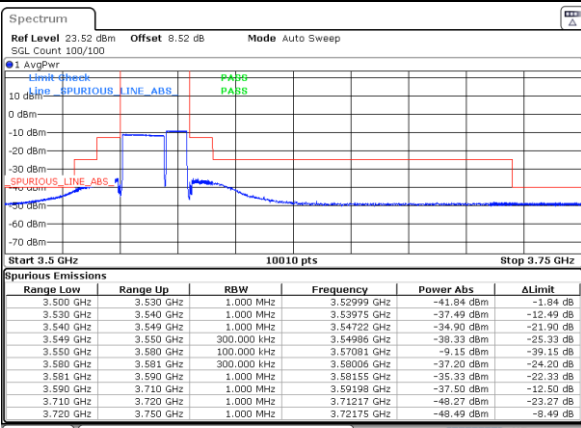


Date: 17.MAY.2023 01:27:10

Date: 17.MAY.2023 01:56:58

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 17.MAY.2023 01:07:23

Date: 17.MAY.2023 01:37:07

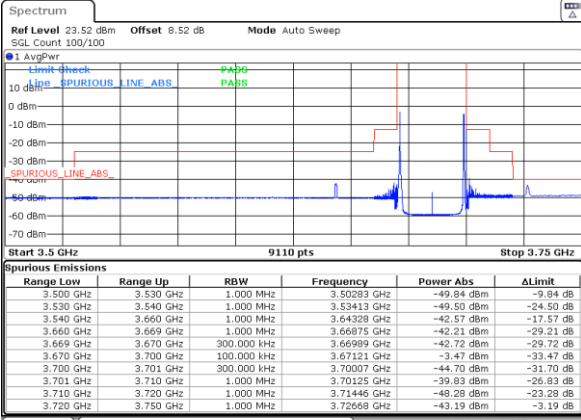


LTE Band 48C / 20MHz+10MHz

256QAM

Highest Band Edge / 1RB0 and 1RB49

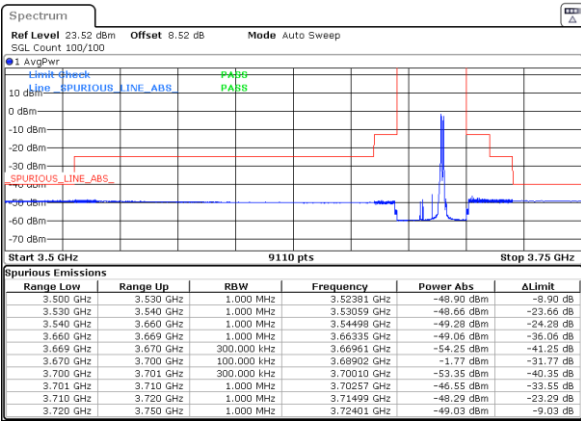
N/A



Date: 17.MAY.2023 21:34:49

Highest Band Edge / 1RB99 and 1RB0

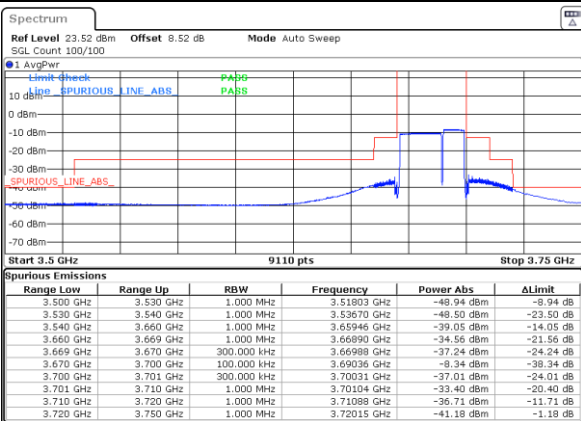
N/A



Date: 17.MAY.2023 02:26:45

Highest Band Edge / Full RB

N/A



Date: 17.MAY.2023 02:06:56

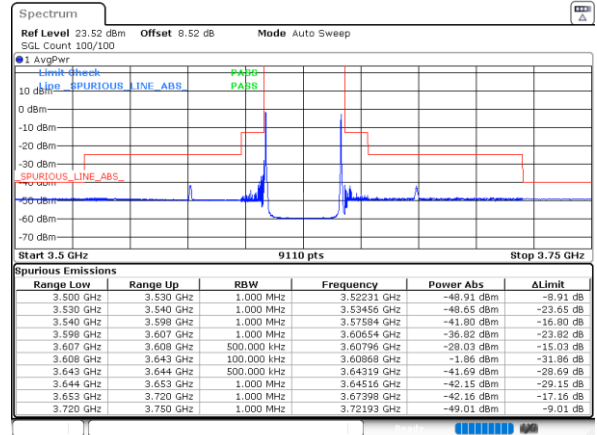
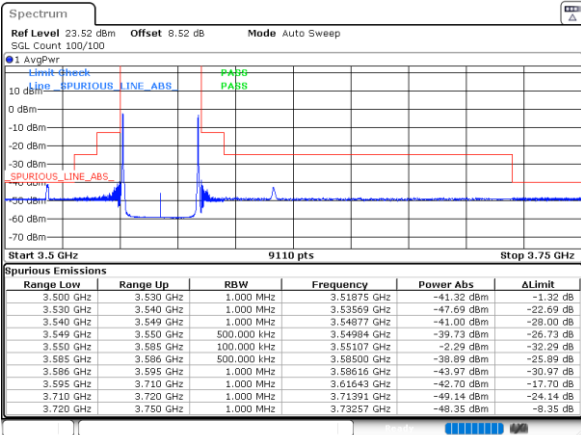


LTE Band 48C / 20MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Middle Band Edge / 1RB0 and 1RB74

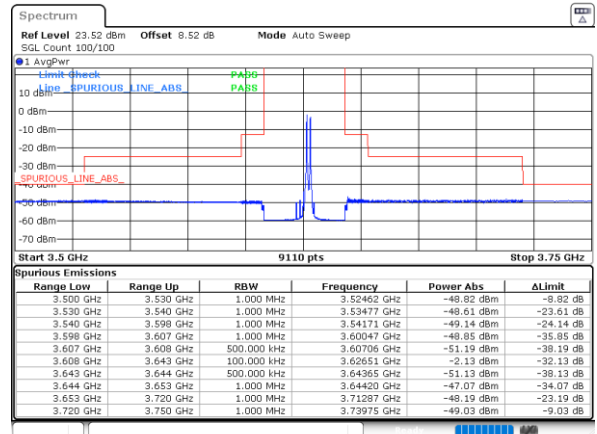
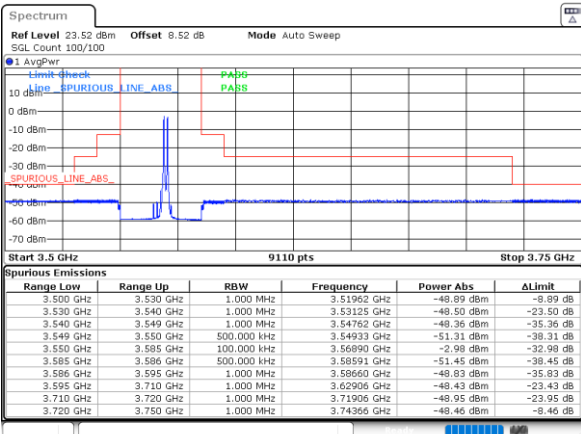


Date: 17.MAY.2023 02:46:37

Date: 17.MAY.2023 03:16:20

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

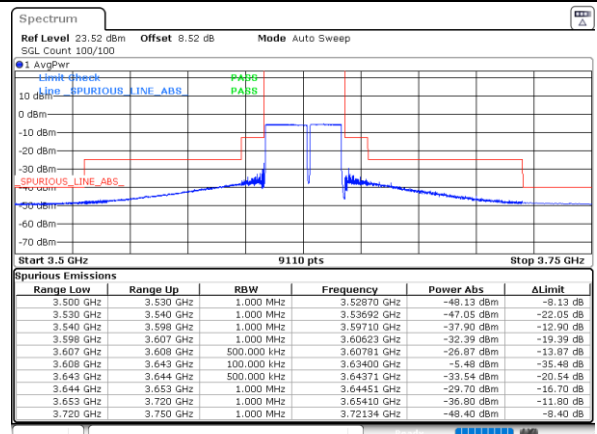
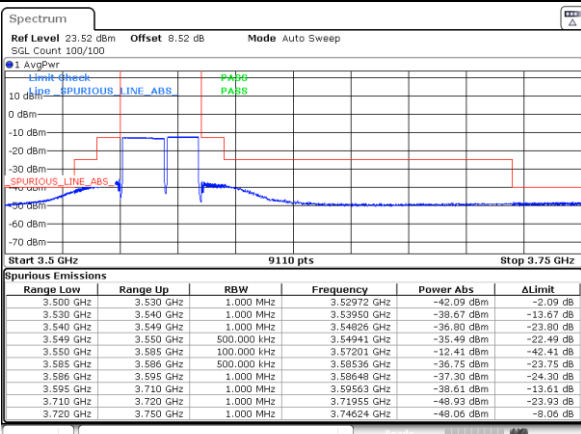


Date: 17.MAY.2023 02:56:30

Date: 17.MAY.2023 03:26:14

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 17.MAY.2023 21:44:52

Date: 17.MAY.2023 03:06:27

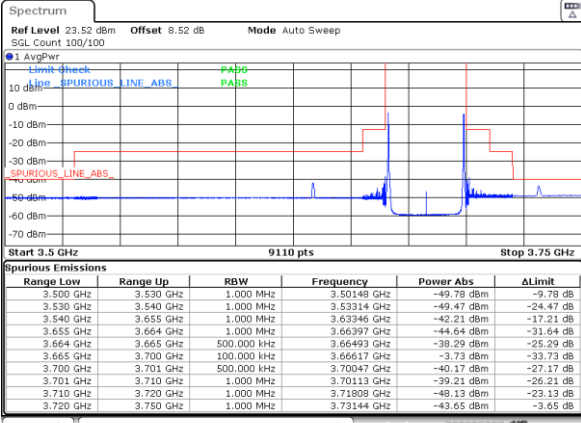


LTE Band 48C / 20MHz+15MHz

256QAM

Highest Band Edge / 1RB0 and 1RB74

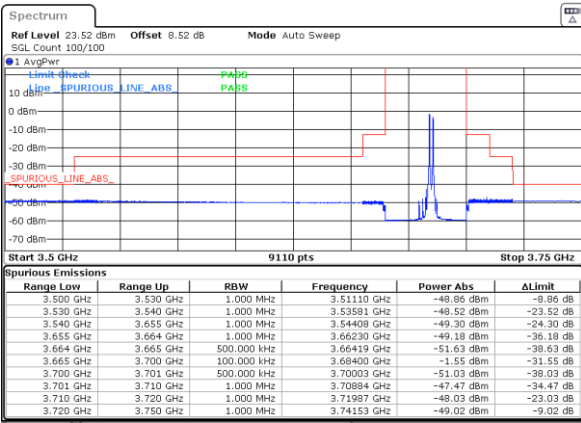
N/A



Date: 17\_MAY\_2023 22:04:57

Highest Band Edge / 1RB99 and 1RB0

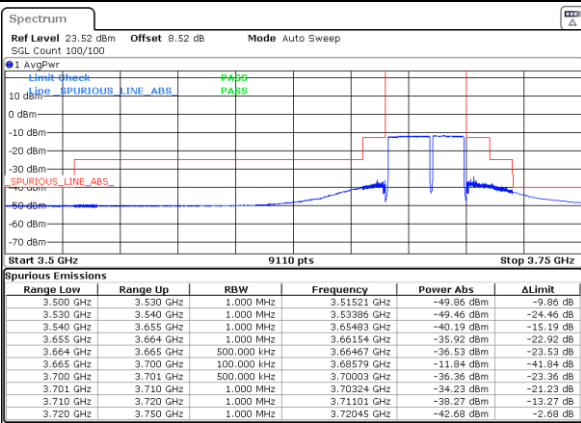
N/A



Date: 17\_MAY\_2023 03:55:56

Highest Band Edge / FullRB

N/A



Date: 17\_MAY\_2023 21:54:56

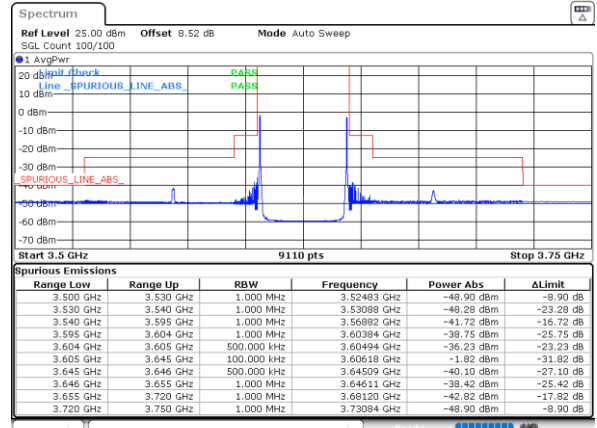
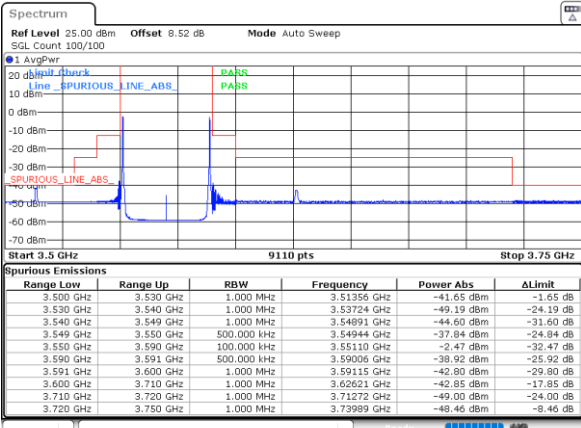


LTE Band 48C / 20MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

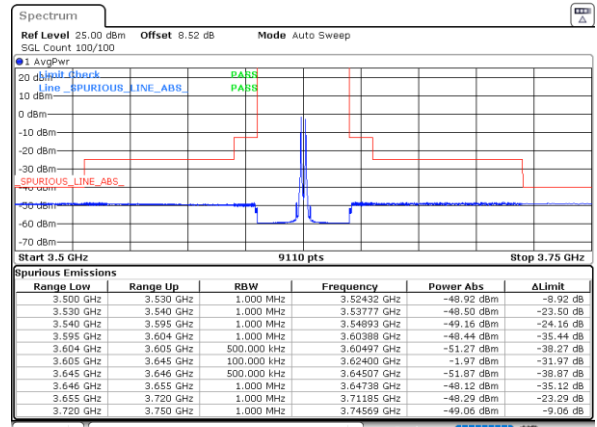
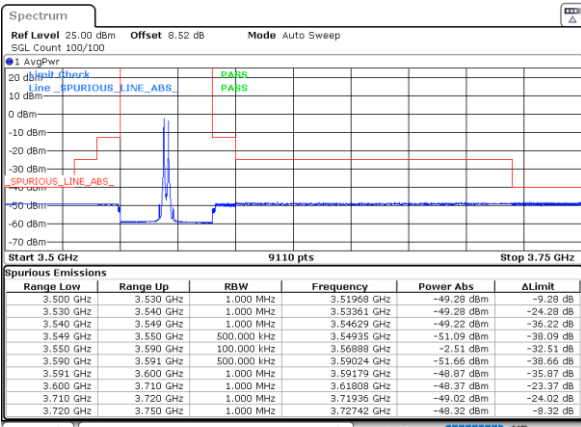


Date: 17.MAY.2023 04:15:47

Date: 17.MAY.2023 05:06:01

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

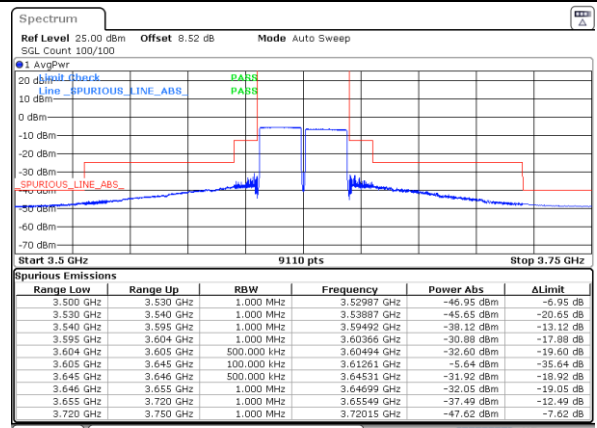
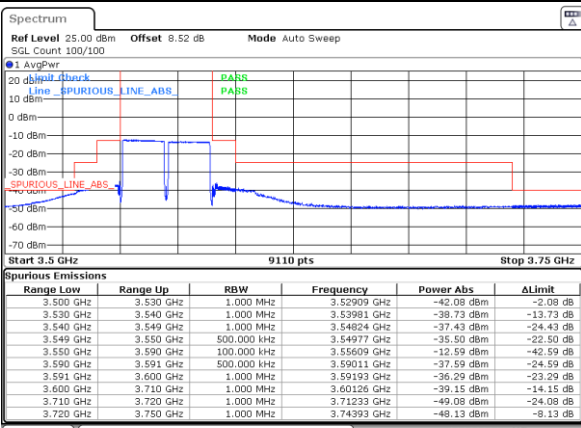


Date: 17.MAY.2023 04:46:12

Date: 17.MAY.2023 04:56:07

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 17.MAY.2023 22:15:02

Date: 17.MAY.2023 05:15:54

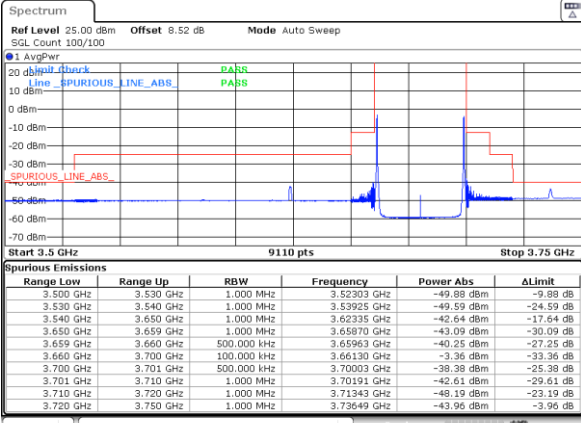


LTE Band 48C / 20MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB9

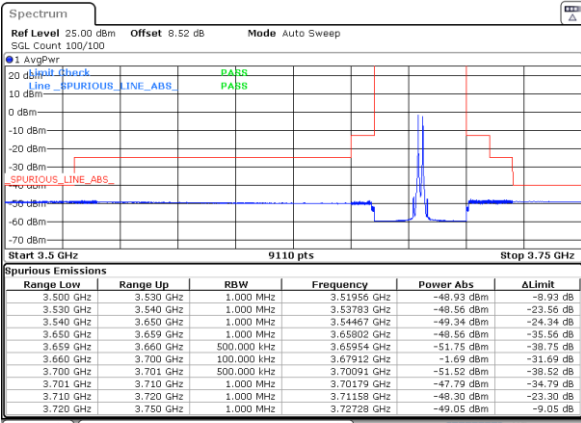
N/A



Date: 17\_MAY\_2023 22:25:08

Highest Band Edge / 1RB99 and 1RB0

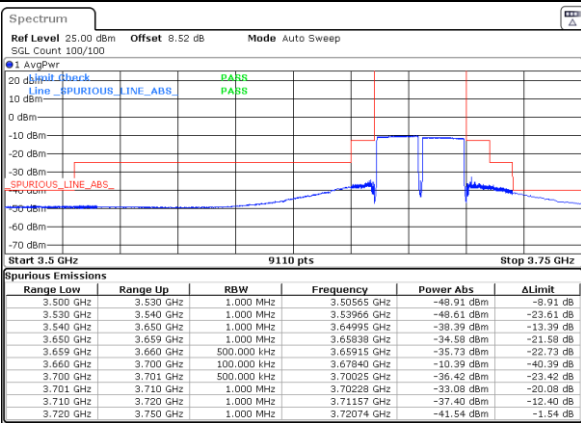
N/A



Date: 17\_MAY\_2023 05:45:43

Highest Band Edge / Full RB

N/A



Date: 17\_MAY\_2023 05:25:51



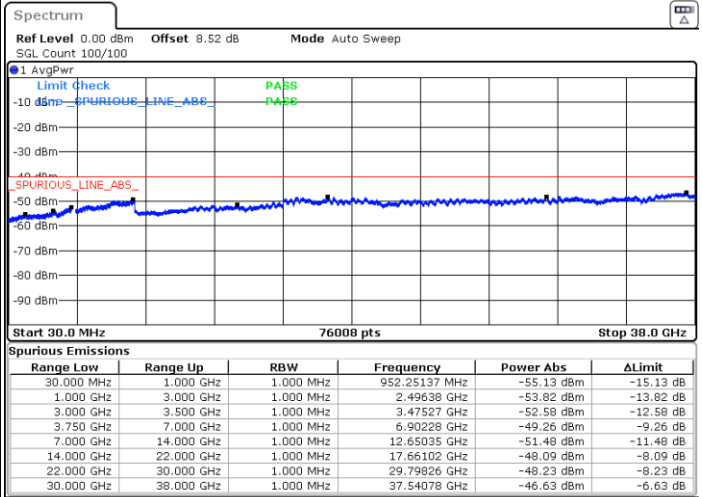
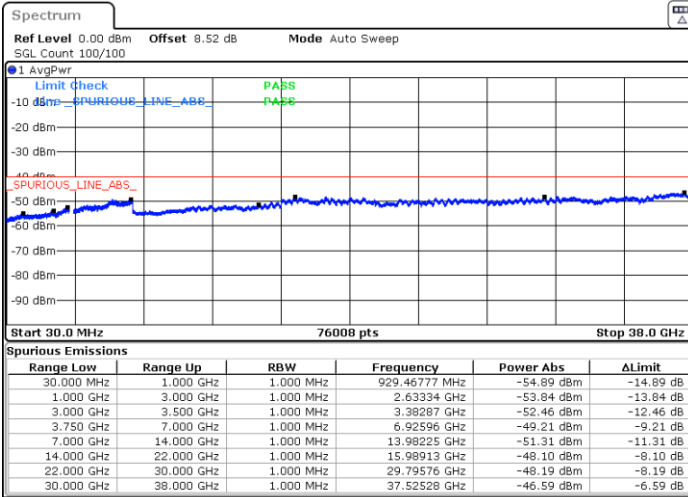
# Conducted Spurious Emission

## LTE Band 48C / 5MHz+20MHz

### QPSK

#### Lowest Channel / 1RB24 and 1RB0

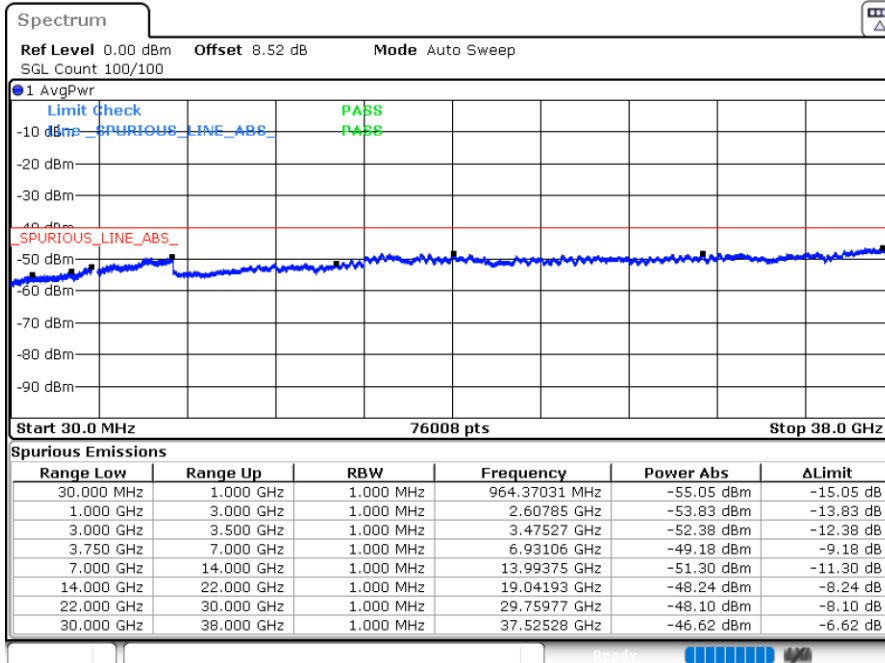
#### Middle Channel / 1RB24 and 1RB0



Date: 19.MAY.2023 12:30:39

Date: 19.MAY.2023 12:28:34

#### Highest Channel / 1RB24 and 1RB0



Date: 19.MAY.2023 12:32:33

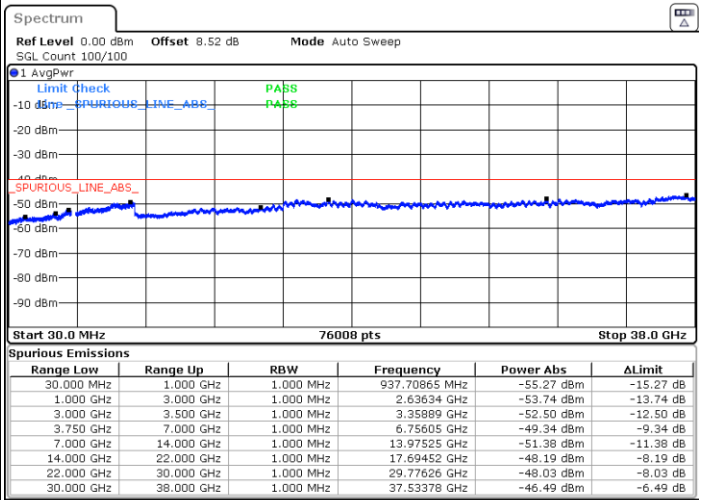
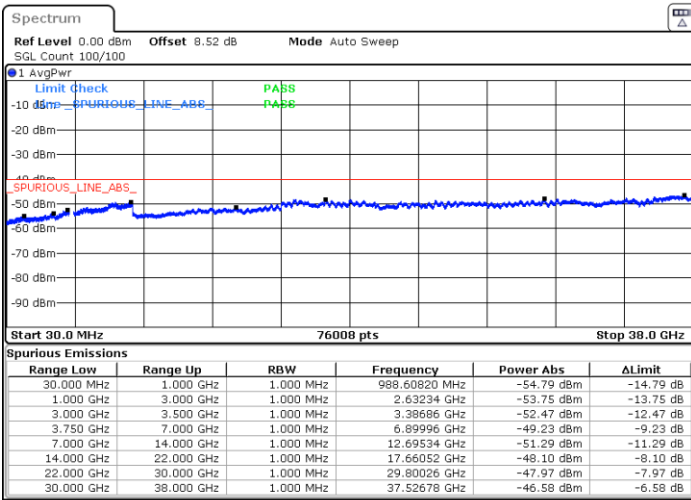


LTE Band 48C / 10MHz+20MHz

QPSK

Lowest Channel / 1RB49 and 1RB0

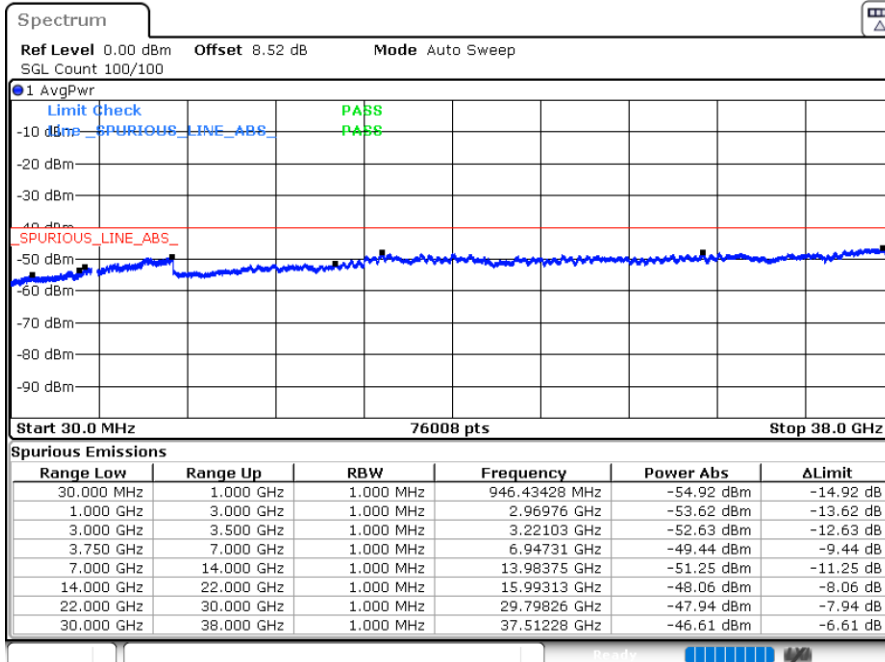
Middle Channel / 1RB49 and 1RB0



Date: 19.MAY.2023 12:37:02

Date: 19.MAY.2023 12:35:04

Highest Channel / 1RB49 and 1RB0



Date: 19.MAY.2023 12:38:52



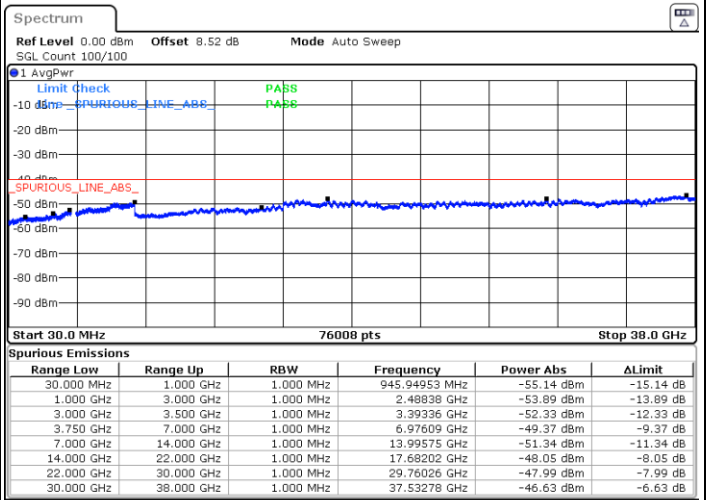
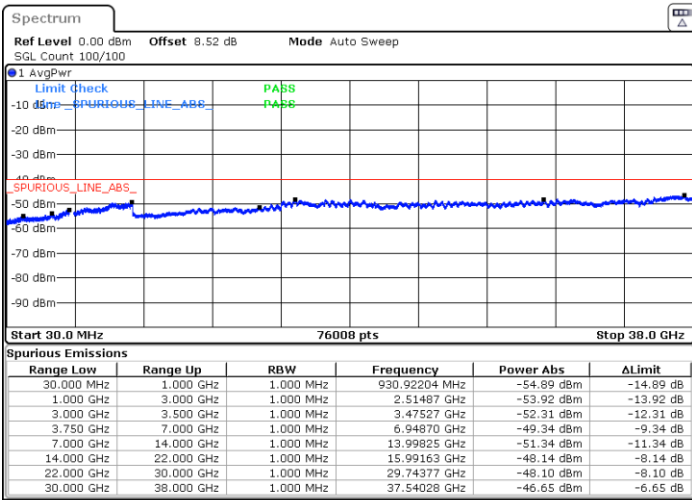


LTE Band 48C / 15MHz+20MHz

QPSK

Lowest Channel / 1RB74 and 1RB0

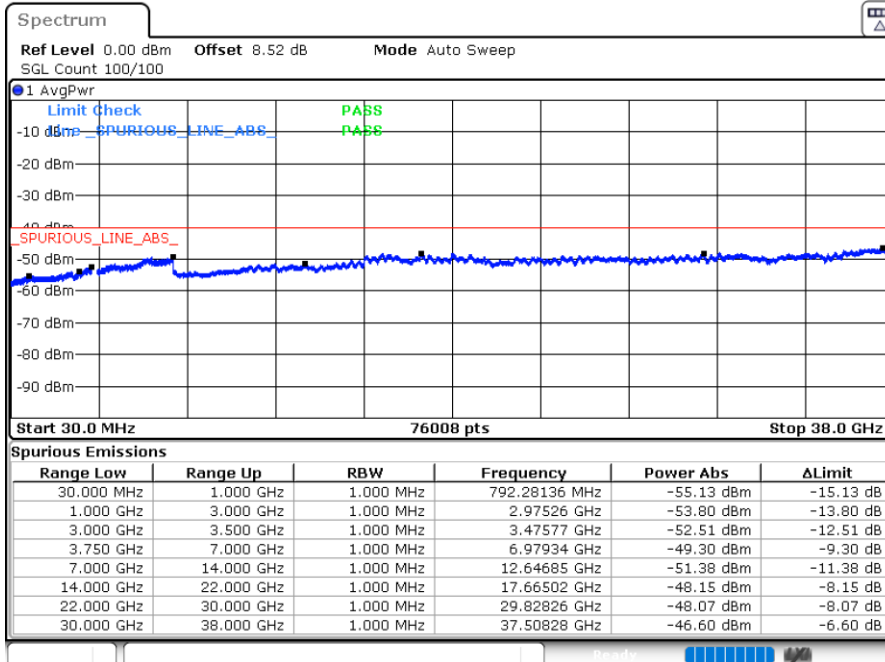
Middle Channel / 1RB74 and 1RB0



Date: 19.MAY.2023 12:42:45

Date: 19.MAY.2023 12:40:54

Highest Channel / 1RB74 and 1RB0



Date: 19.MAY.2023 12:44:26

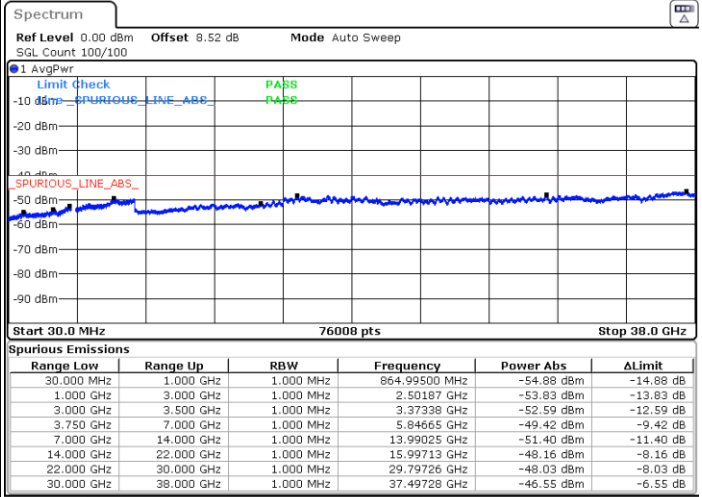
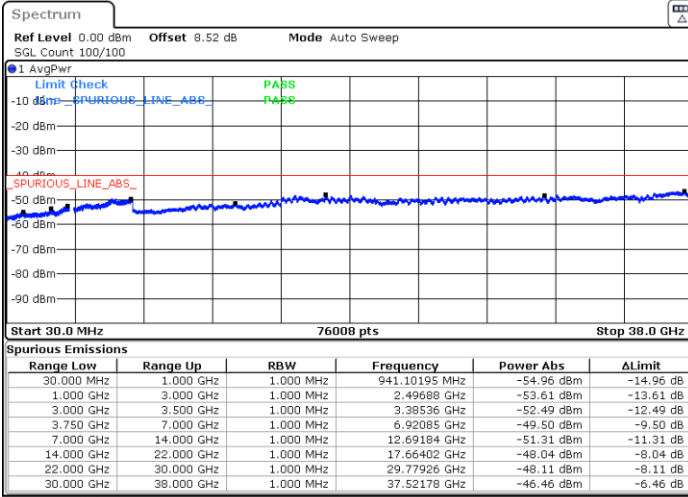


LTE Band 48C / 20MHz+5MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

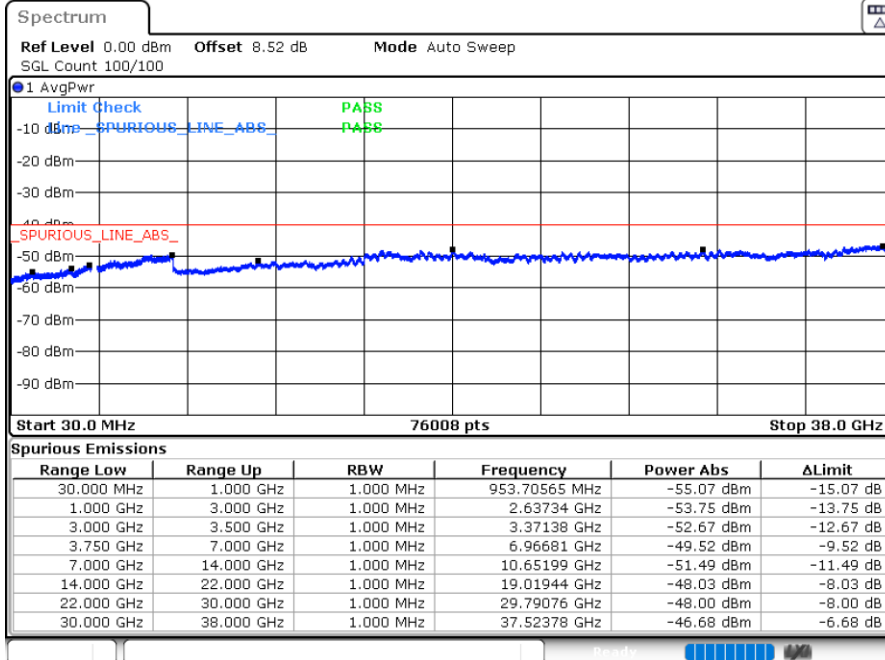
Middle Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 12:46:20

Date: 19.MAY.2023 12:47:56

Highest Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 12:49:31

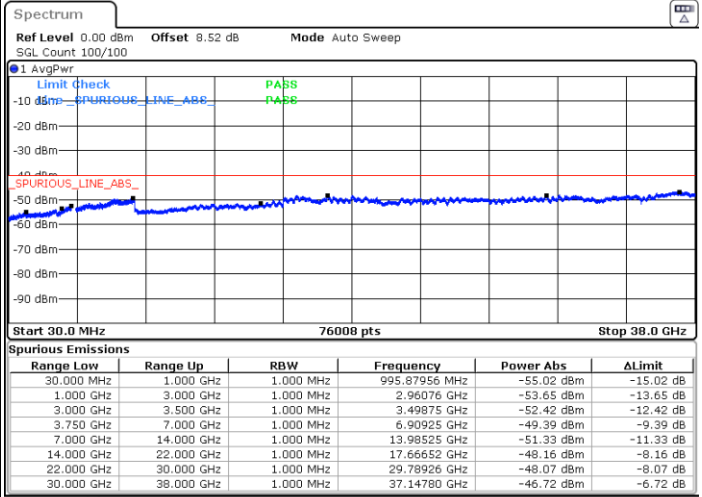
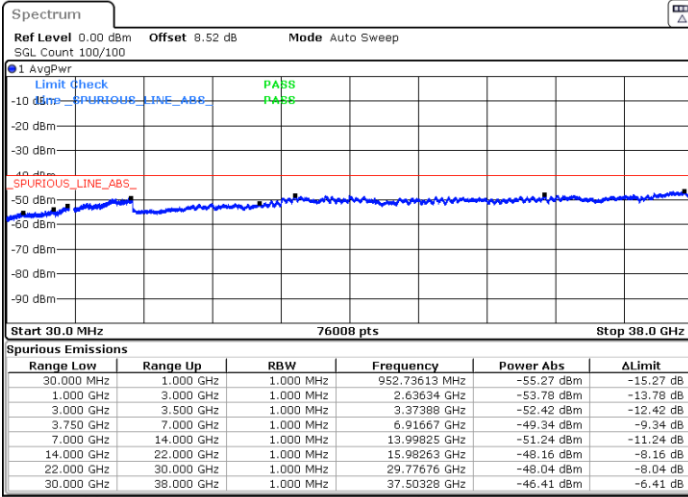


LTE Band 48C / 20MHz+10MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

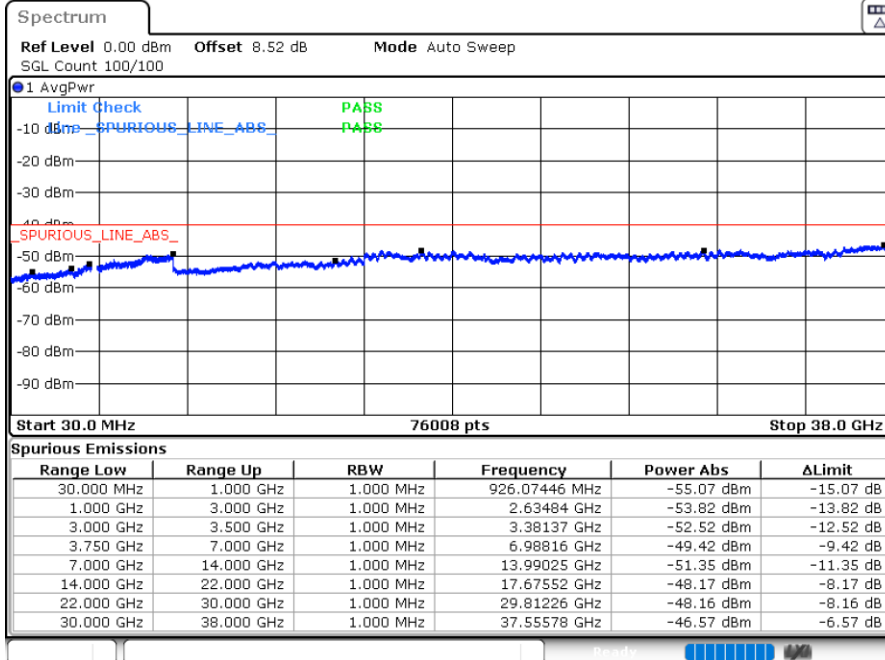
Middle Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 12:51:07

Date: 19.MAY.2023 12:52:42

Highest Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 12:54:17

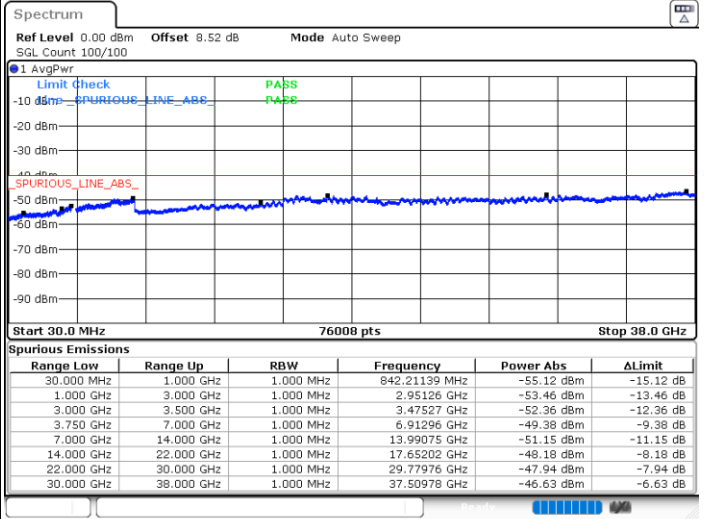
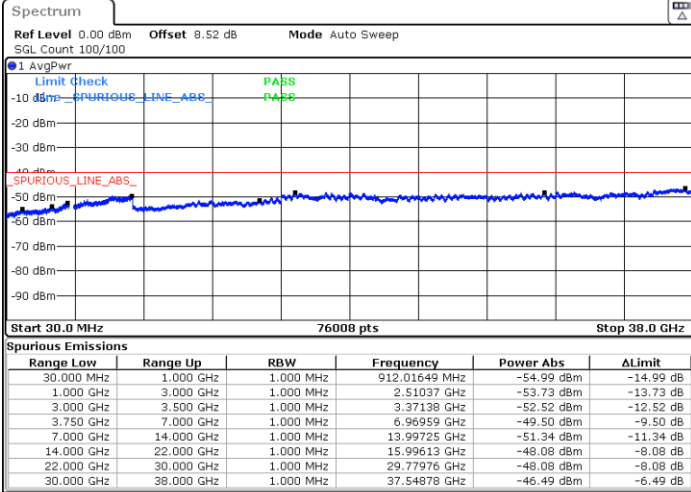


LTE Band 48C / 20MHz+15MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

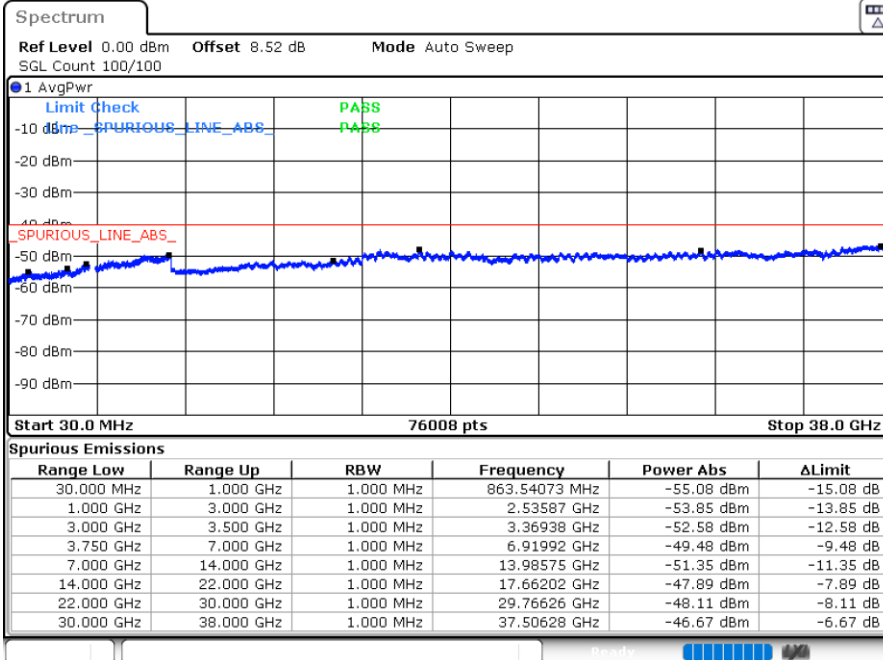
Middle Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 12:55:53

Date: 19.MAY.2023 12:57:28

Highest Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 12:59:03

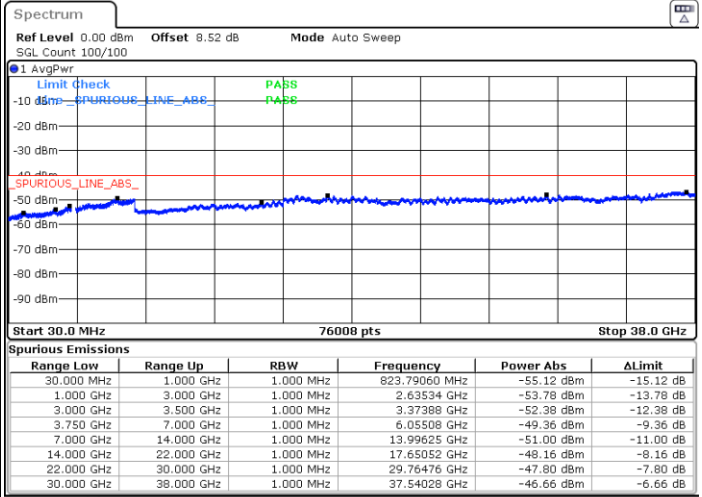
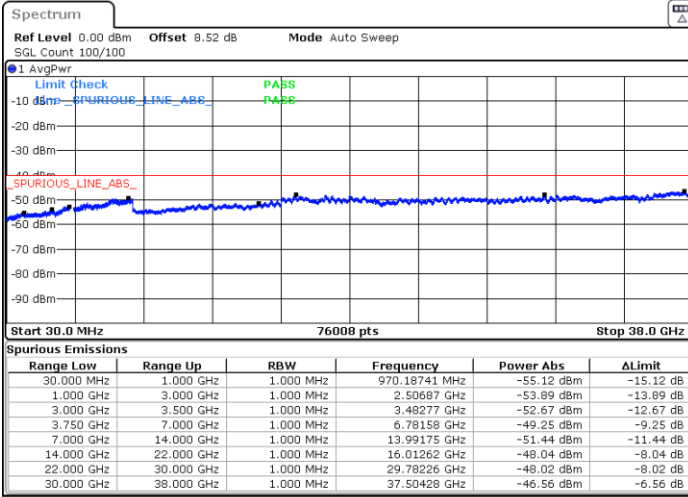


LTE Band 48C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

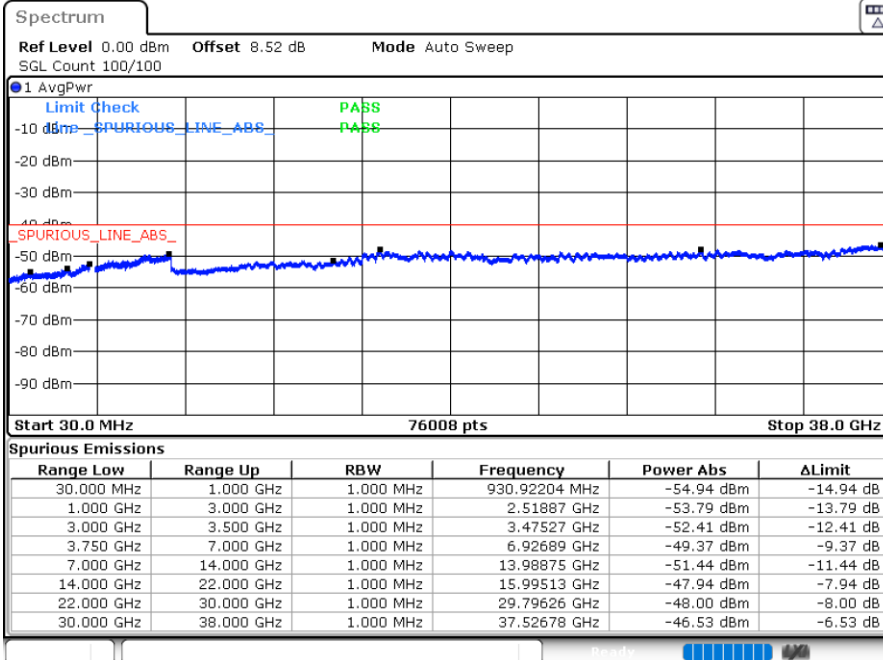
Middle Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 13:00:38

Date: 19.MAY.2023 13:02:13

Highest Channel / 1RB99 and 1RB0



Date: 19.MAY.2023 13:03:49



Frequency Stability

Test Conditions		LTE Band 48C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0214	PASS
40	Normal Voltage	0.0192	
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0208	
0	Normal Voltage	0.0143	
-10	Normal Voltage	0.0127	
-20	Normal Voltage	0.0136	
-30	Normal Voltage	0.0328	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0058	
20	Minimum Voltage	0.0018	

Note:

1. Normal Voltage =24 V. ; Minimum Voltage =20 V. ; Maximum Voltage =28 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 :	Herry Li	Temperature :	23~25°C
		Relative Humidity :	41~42%

LTE Band 48 / 20MHz / QPSK (Ant. 0)								
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	7230	-62.04	-40	-22.04	-73.50	2.84	14.30	H
	10848	-60.27	-40	-20.27	-70.21	3.49	13.43	H
	14466	-59.40	-40	-19.40	-69.64	3.85	14.09	H
	7230	-56.22	-40	-16.22	-67.68	2.84	14.30	V
	10848	-59.84	-40	-19.84	-69.78	3.49	13.43	V
	14466	-58.88	-40	-18.88	-69.12	3.85	14.09	V

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

LTE Band 48C_CA / 20MHz+20MHz / QPSK for 1RB0 (Ant. 0)								
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	7176	-63.32	-40	-23.32	-74.78	2.84	14.30	H
	10773	-61.33	-40	-21.33	-71.27	3.49	13.43	H
	14364	-60.48	-40	-20.48	-70.72	3.85	14.09	H
	7182	-59.53	-40	-19.53	-70.99	2.84	14.30	V
	10773	-61.34	-40	-21.34	-71.28	3.49	13.43	V
	14364	-60.22	-40	-20.22	-70.46	3.85	14.09	V

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

LTE Band 48C_CA / 20MHz+20MHz / QPSK for 1RBmax (Ant. 0)								
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	7218	-62.94	-40	-22.94	-74.40	2.84	14.30	H
	10827	-60.92	-40	-20.92	-70.86	3.49	13.43	H
	14436	-59.59	-40	-19.59	-69.83	3.85	14.09	H
	7218	-62.92	-40	-22.92	-74.38	2.84	14.30	V
	10827	-60.71	-40	-20.71	-70.65	3.49	13.43	V
	14436	-59.71	-40	-19.71	-69.95	3.85	14.09	V

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