



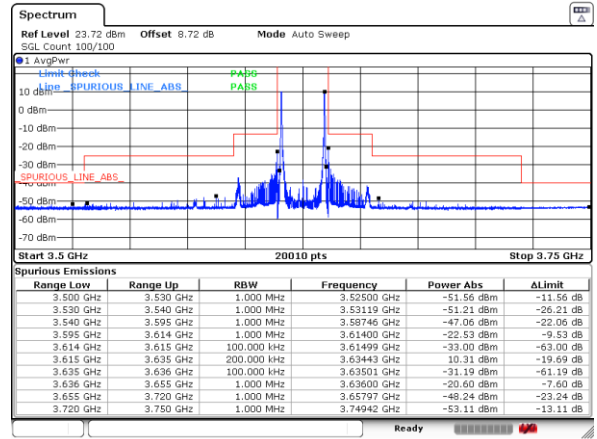
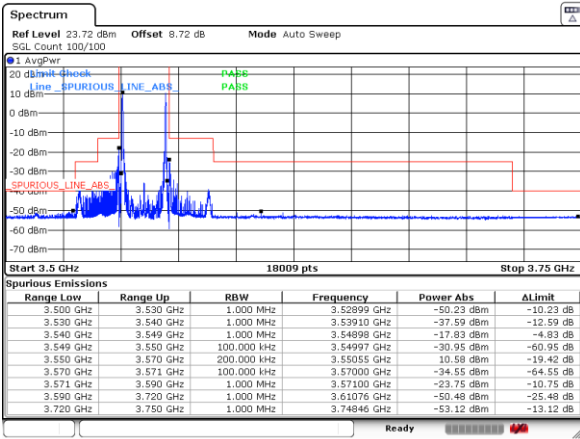


LTE Band 48B / 10MHz+10MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

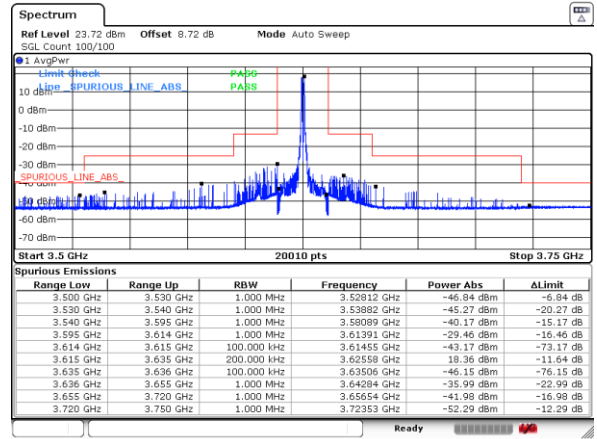
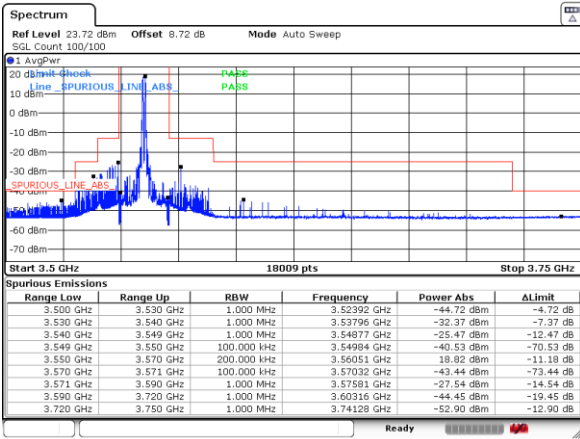


Date: 8.OCT.2022 09:27:46

Date: 8.OCT.2022 08:45:27

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB9 and 1RB0

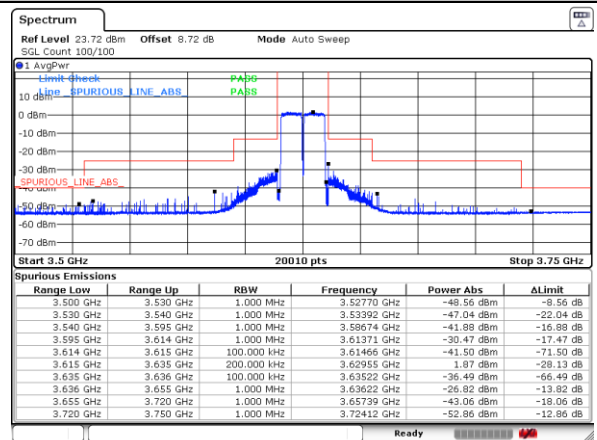
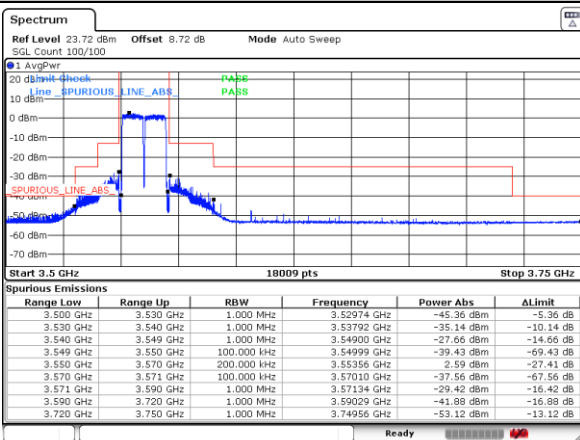


Date: 8.OCT.2022 09:22:11

Date: 8.OCT.2022 08:47:28

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 8.OCT.2022 09:30:13

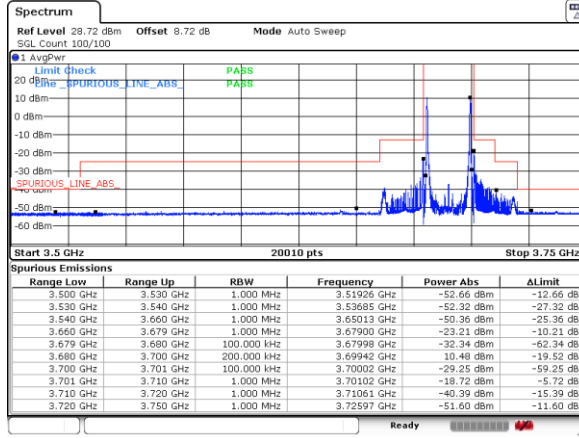
Date: 8.OCT.2022 08:41:40



LTE Band 48B / 10MHz+10MHz

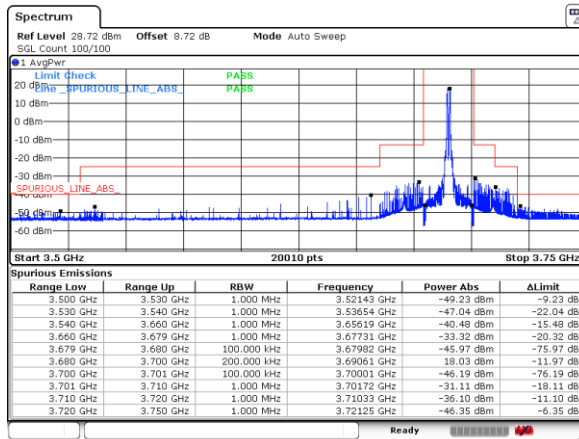
16QAM

Highest Band Edge / 1RB0 and 1RB49



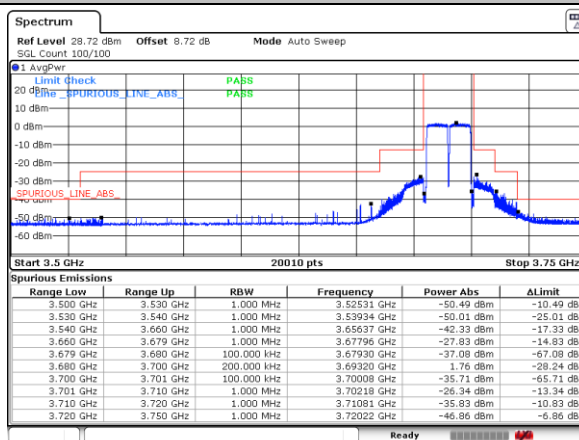
Date: 8.OCT.2022 06:06:04

Highest Band Edge / 1RB49 and 1RB0



Date: 8.OCT.2022 06:03:19

Highest Band Edge / Full RB



Date: 8.OCT.2022 06:08:50

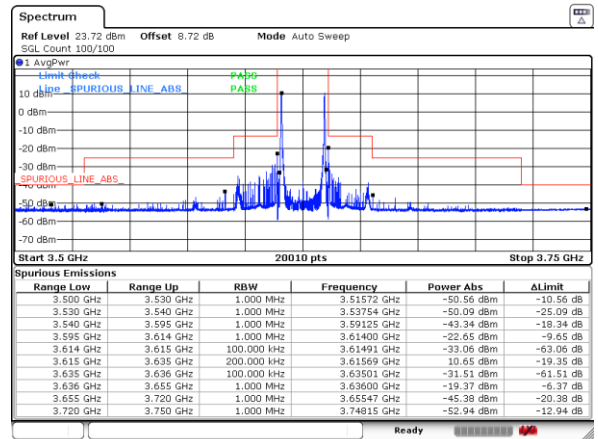
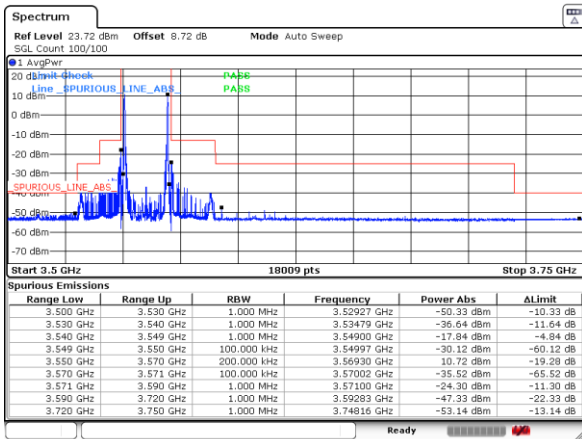


LTE Band 48B/ 10MHz+10MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

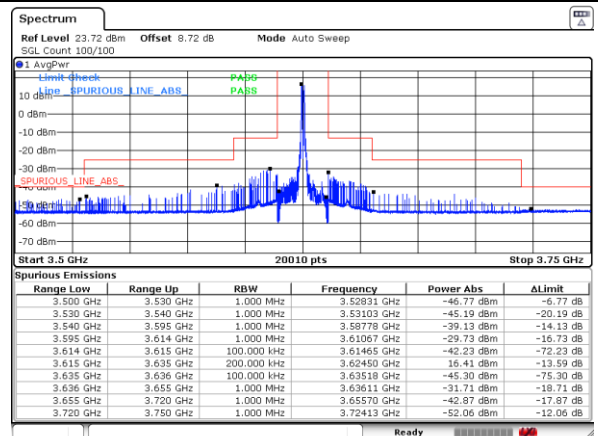
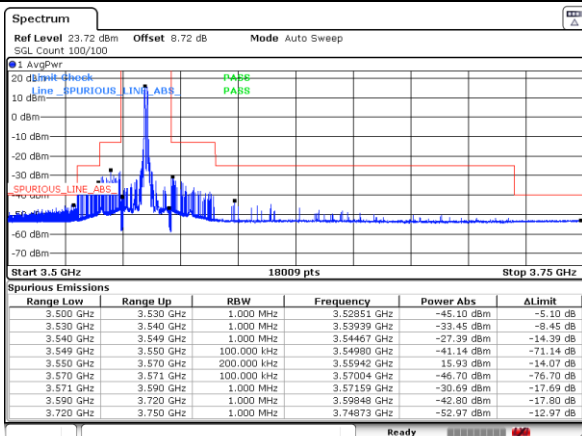


Date: 8.OCT.2022 09:28:24

Date: 8.OCT.2022 08:43:20

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

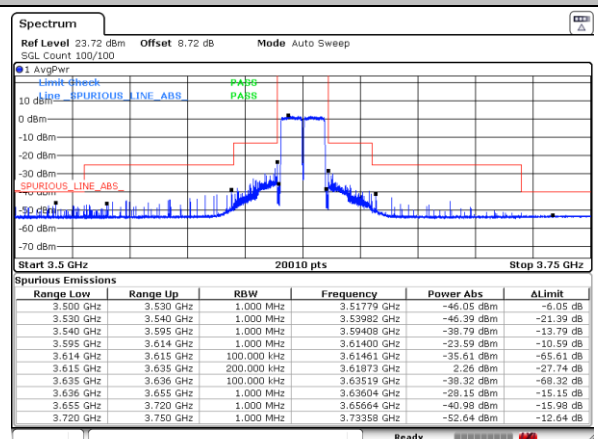
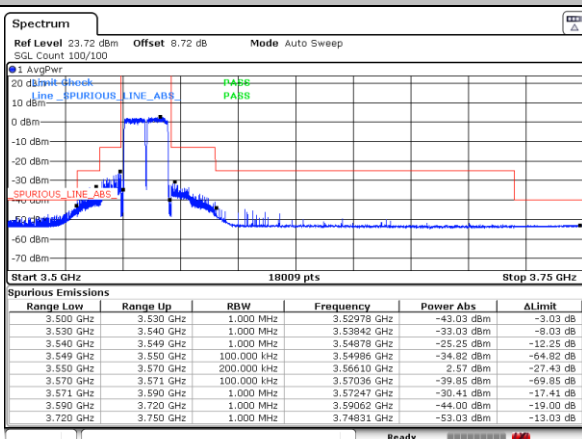


Date: 8.OCT.2022 09:21:34

Date: 8.OCT.2022 08:49:51

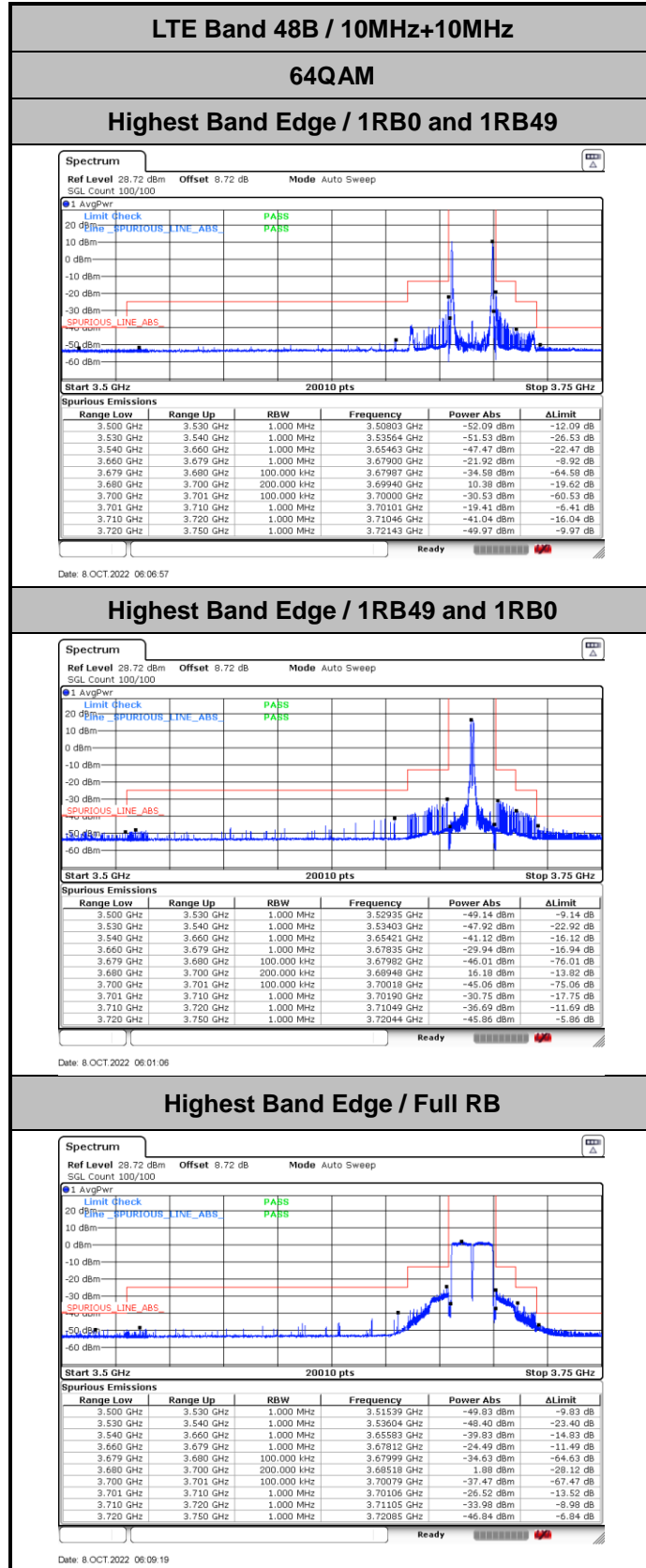
Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 8.OCT.2022 09:30:44

Date: 8.OCT.2022 08:42:19





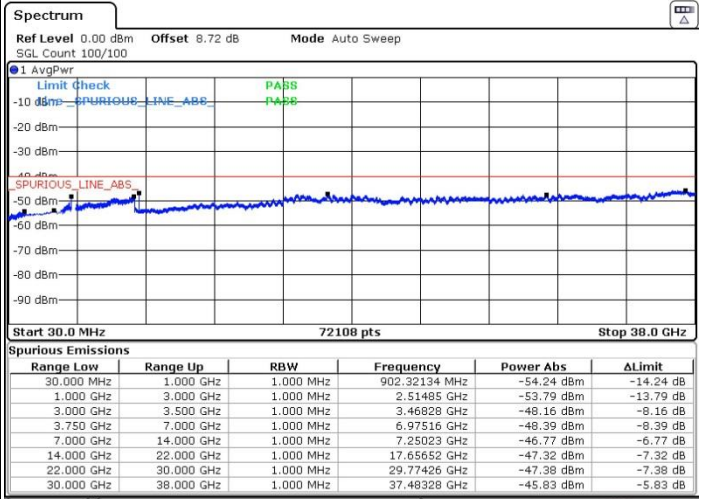
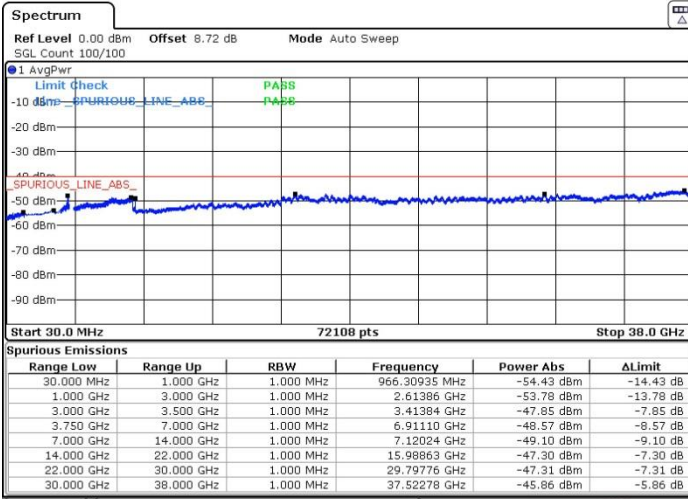
# Conducted Spurious Emission

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

### QPSK

#### Lowest Channel / 1RB49 and 1RB0

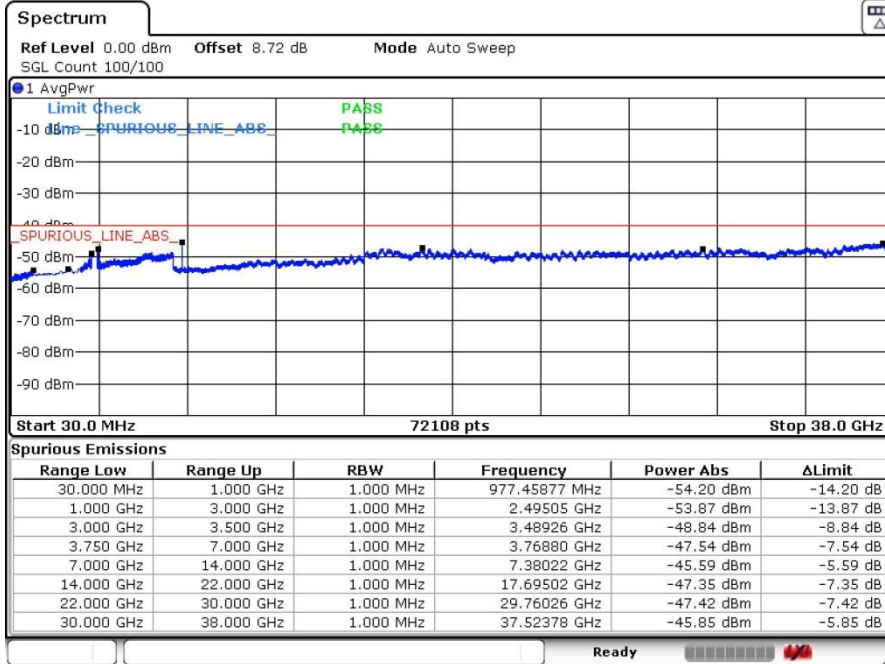
#### Middle Channel / 1RB49 and 1RB0



Date: 9.OCT.2022 10:49:16

Date: 9.OCT.2022 10:56:01

#### Highest Channel / 1RB99 and 1RB0



Date: 9.OCT.2022 10:57:46



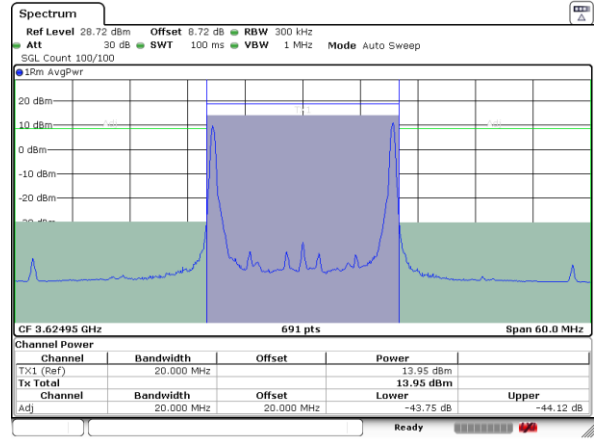
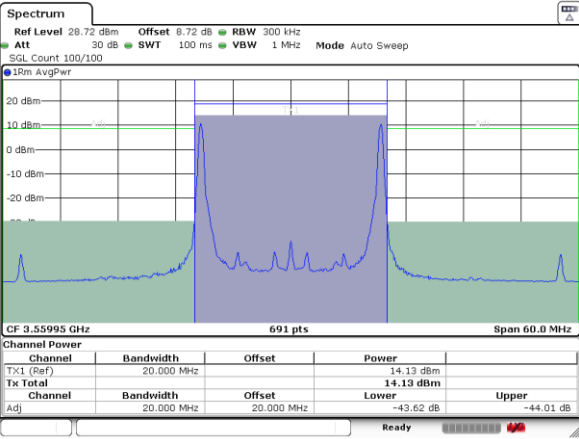
**ACLR**

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

**QPSK**

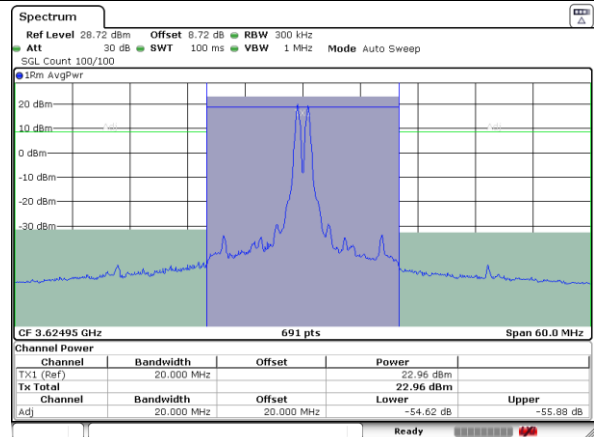
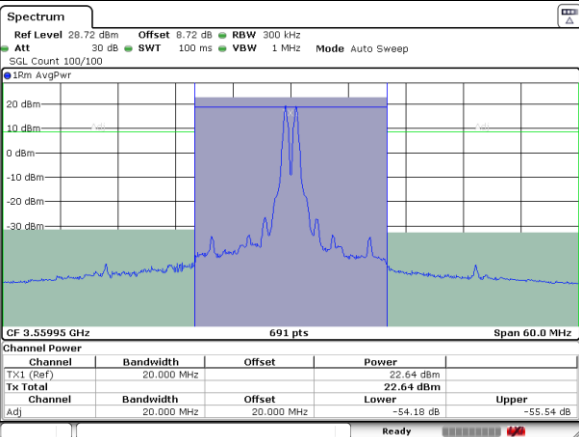
**Lowest Band Edge / 1RB0 and 1RB99**

**Middle Band Edge / 1RB0 and 1RB99**



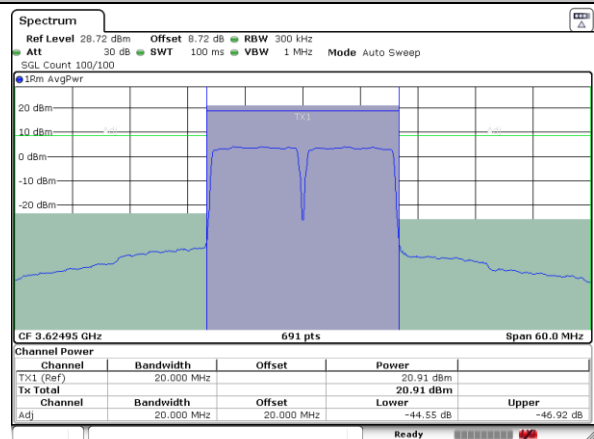
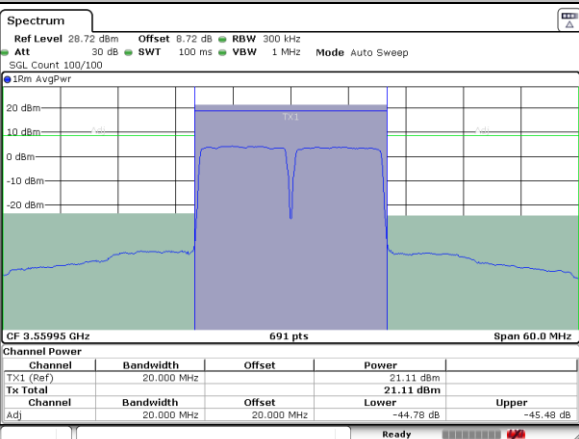
**Lowest Band Edge / 1RB99 and 1RB0**

**Middle Band Edge / 1RB99 and 1RB0**

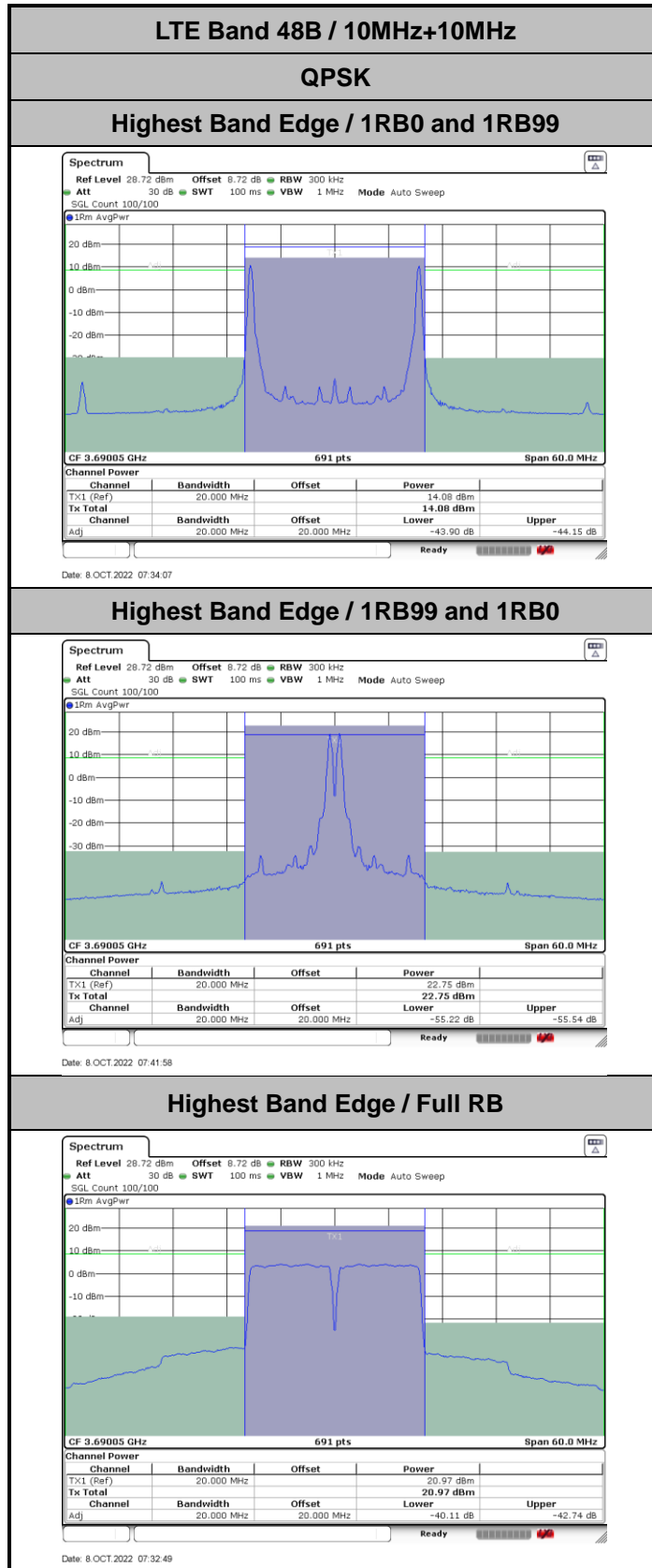


**Lowest Band Edge / Full RB**

**Middle Band Edge / Full RB**









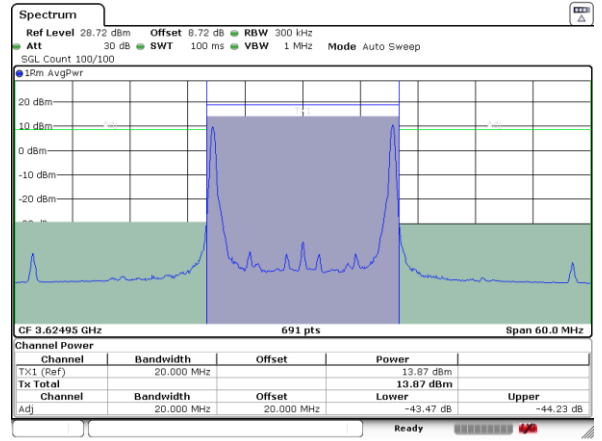
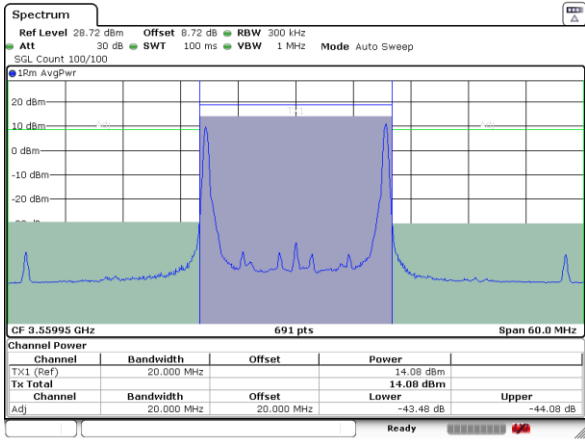


LTE Band 48B/ 10MHz+10MHz

16QAM

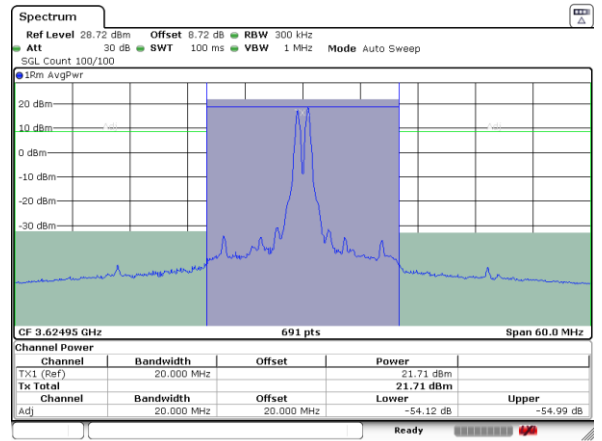
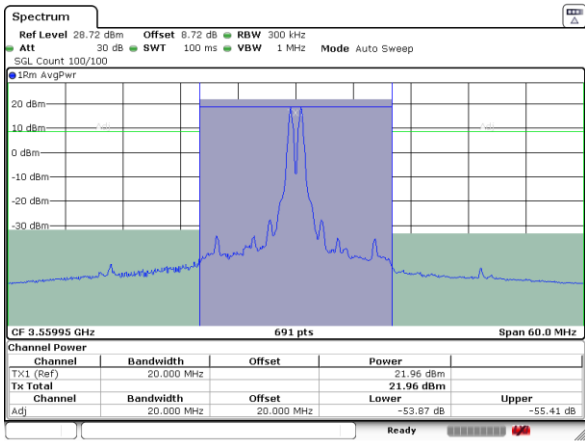
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



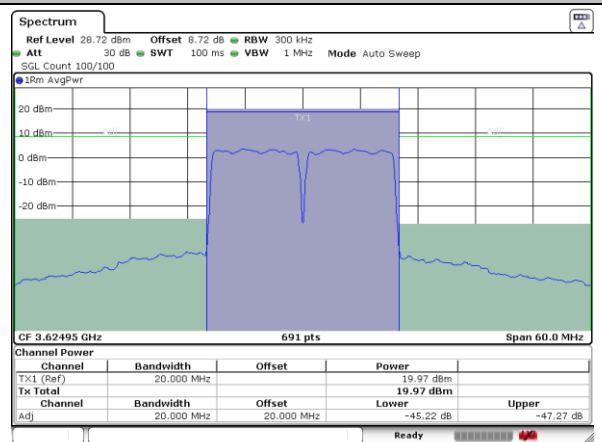
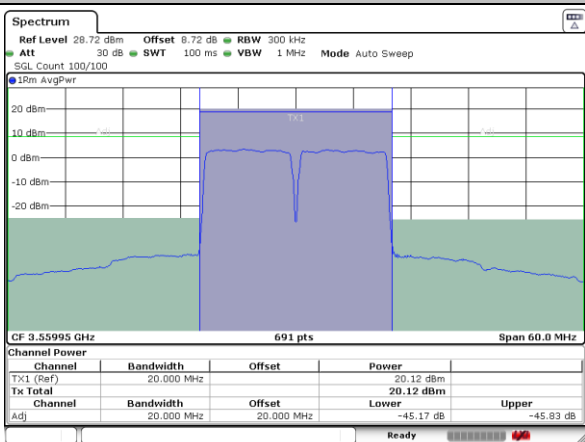
Lowest Band Edge / 1RB99 and 1RB0

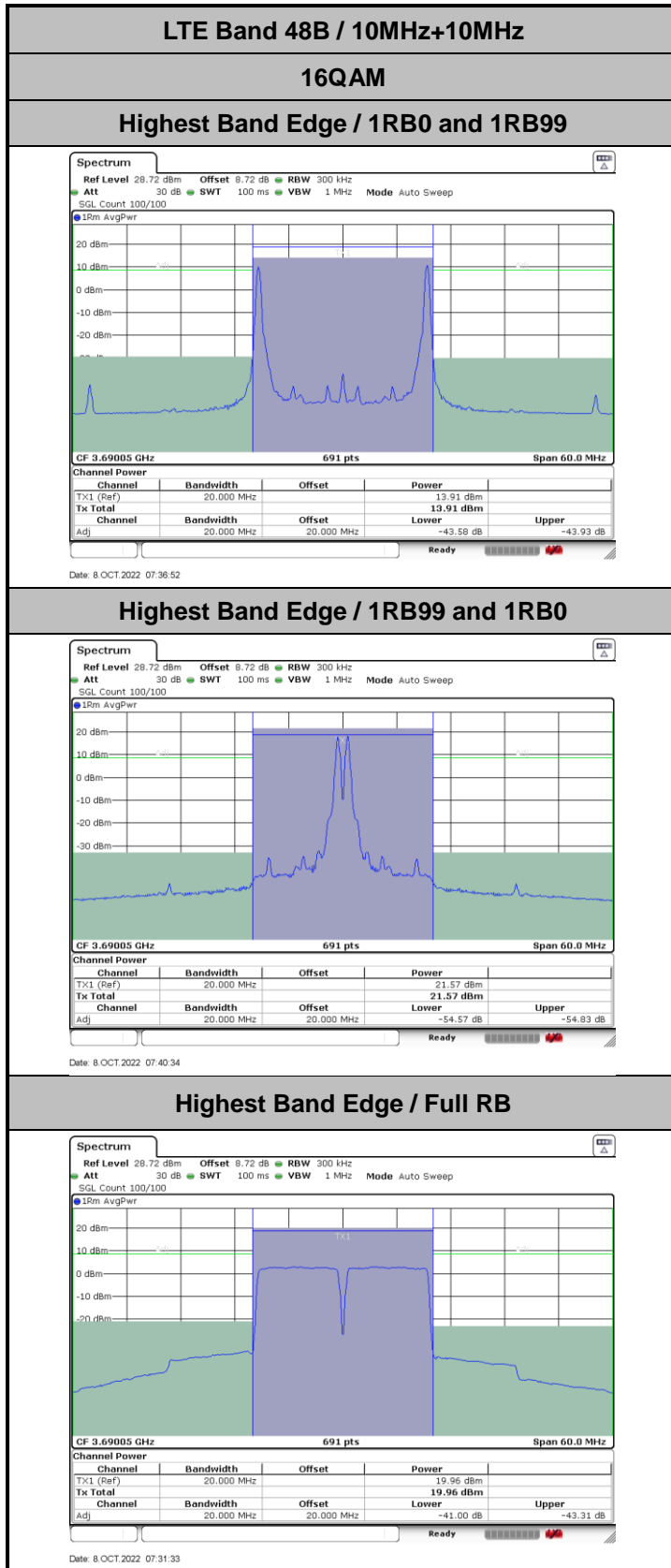
Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB





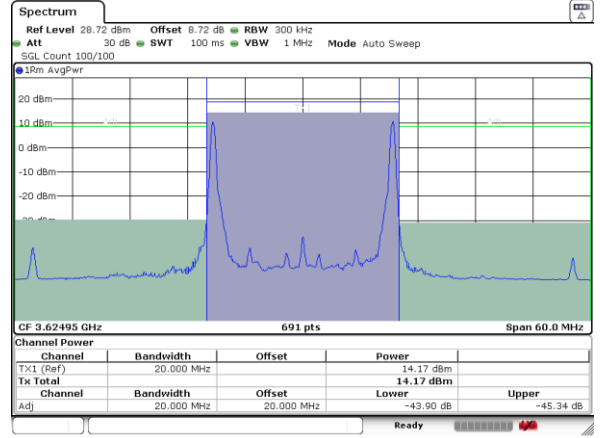
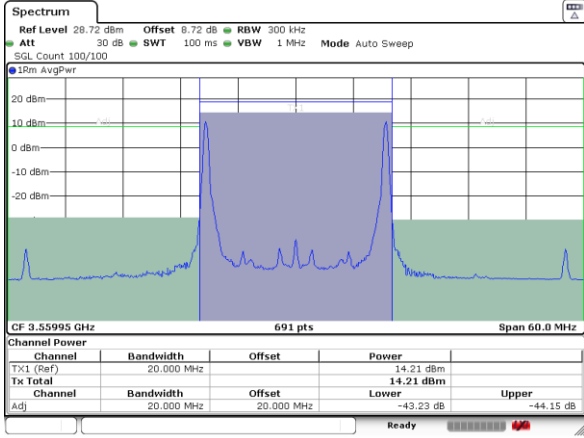


LTE Band 48B / 10MHz+10MHz

64QAM

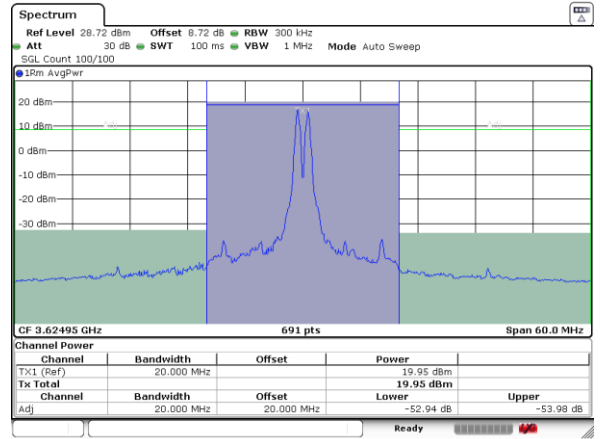
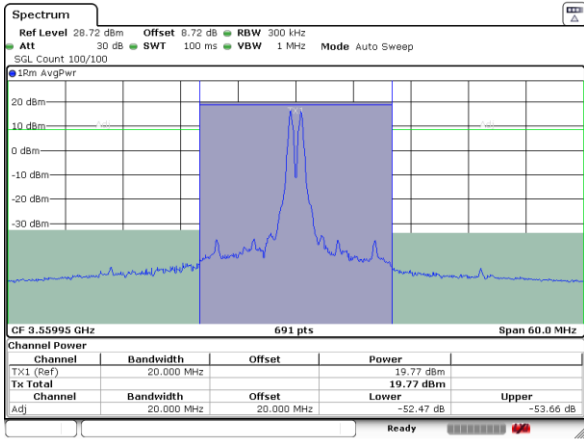
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



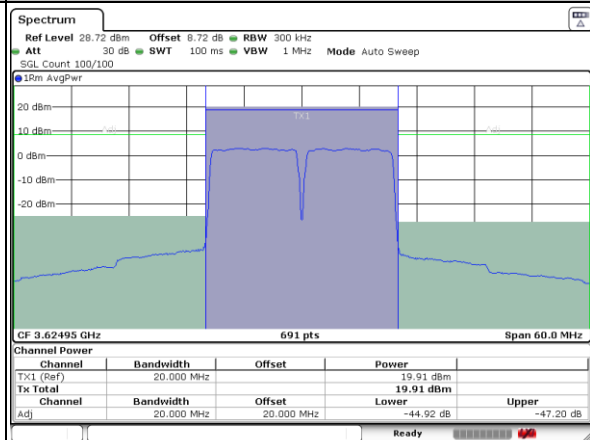
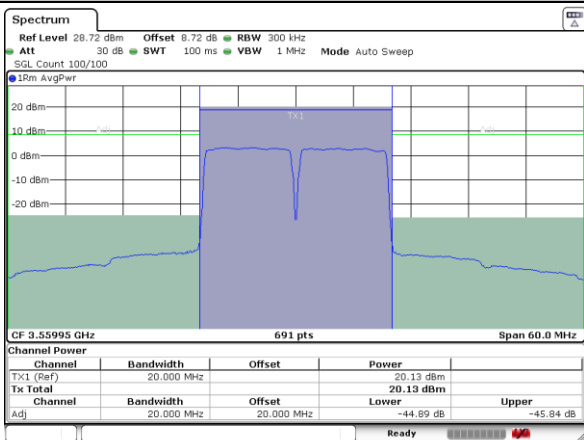
Lowest Band Edge / 1RB99 and 1RB0

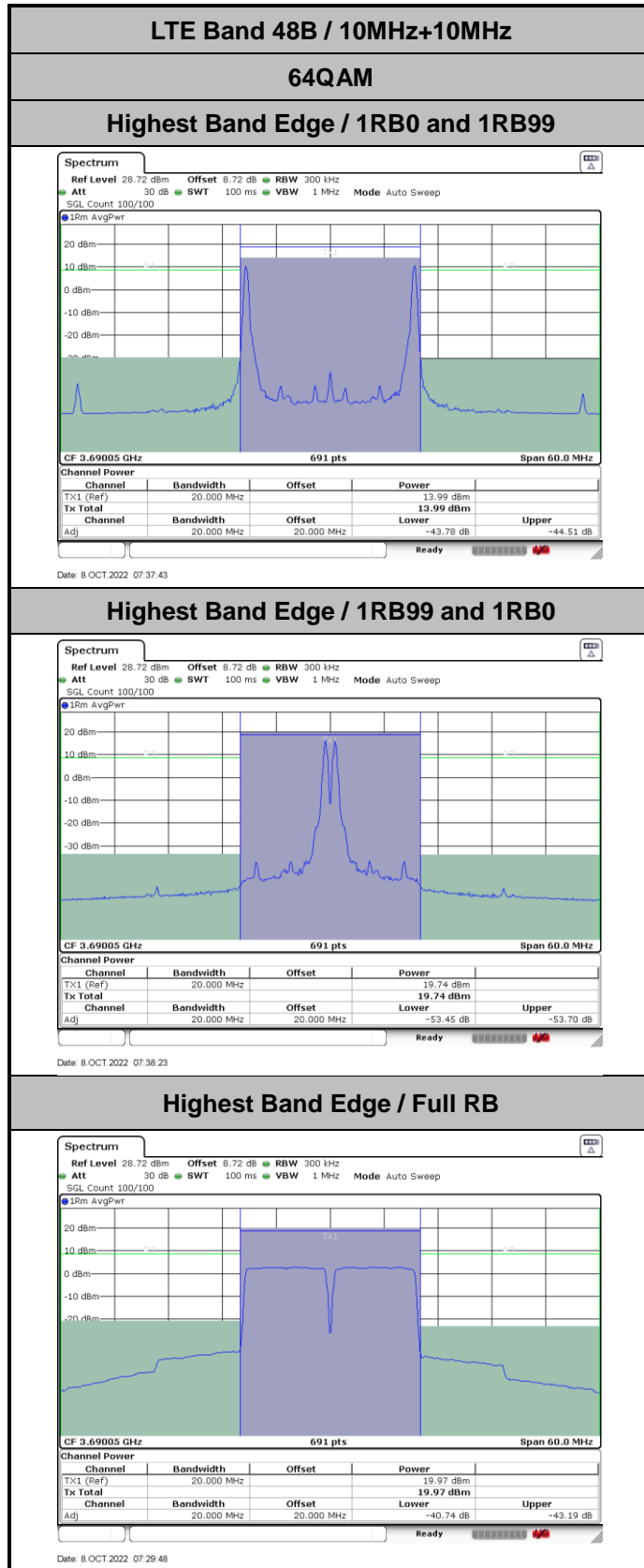
Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB







Frequency Stability

Test Conditions		LTE Band 48B (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10+10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0017	

Note:

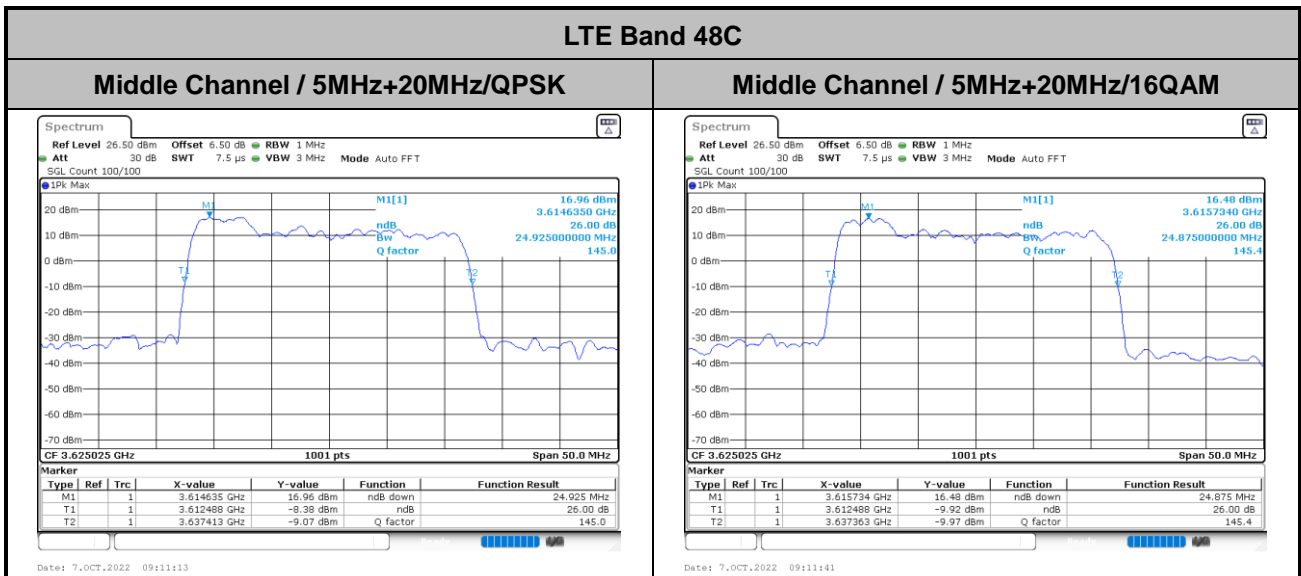
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 48C

## 26dB Bandwidth

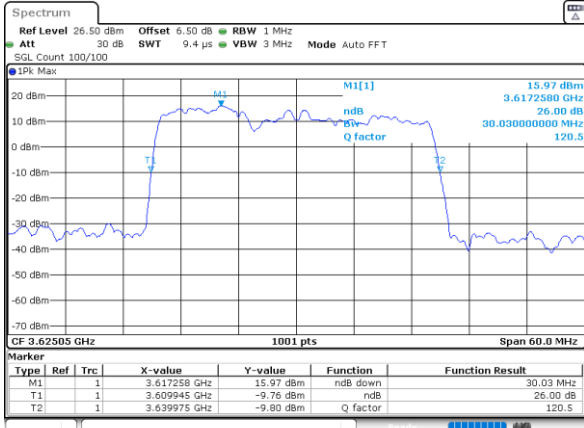
Mode	LTE Band 48C : 26dB BW(MHz)	
QPSK	QPSK	16QAM
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	24.93	24.88
QPSK	QPSK	16QAM
BW	10MHz+20MHz	10MHz+20MHz
Middle CH	30.03	29.91
QPSK	QPSK	16QAM
BW	15MHz+20MHz	15MHz+20MHz
Middle CH	34.90	34.83
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.80	39.72





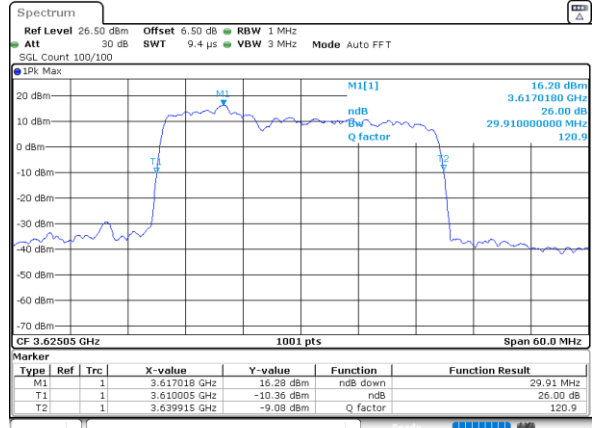
LTE Band 48C

Middle Channel / 10MHz+20MHz/QPSK



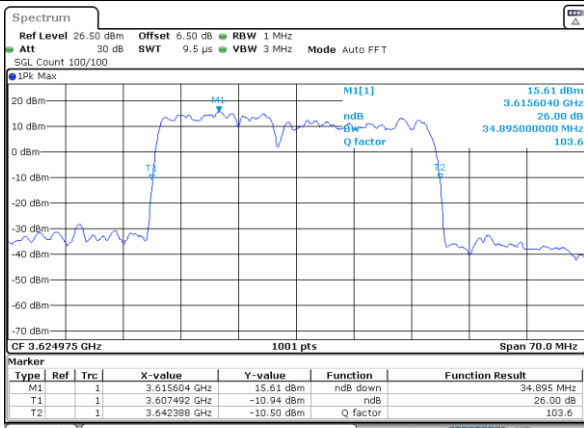
Date: 7.OCT.2022 09:13:12

Middle Channel / 10MHz+20MHz/16QAM



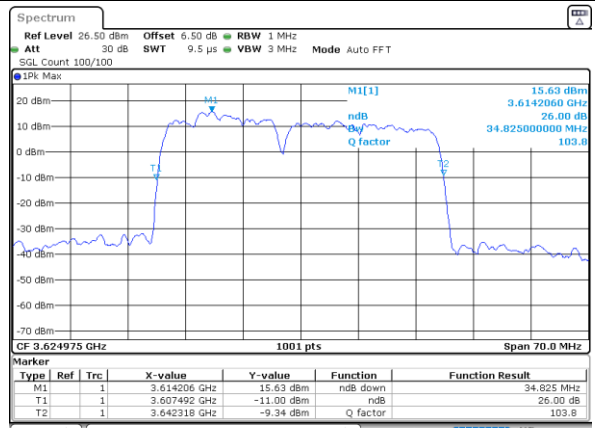
Date: 7.OCT.2022 09:13:40

Middle Channel / 15MHz+20MHz/QPSK



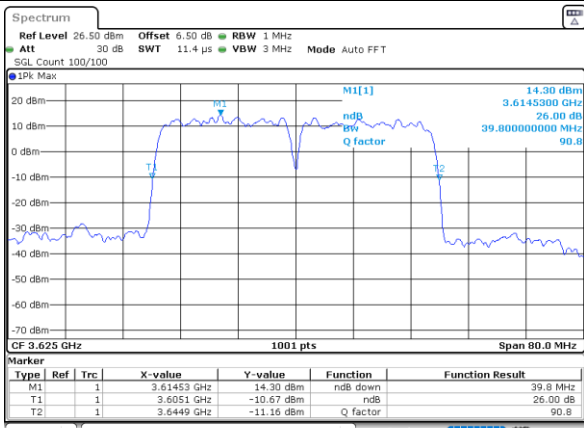
Date: 7.OCT.2022 09:15:06

Middle Channel / 15MHz+20MHz/16QAM



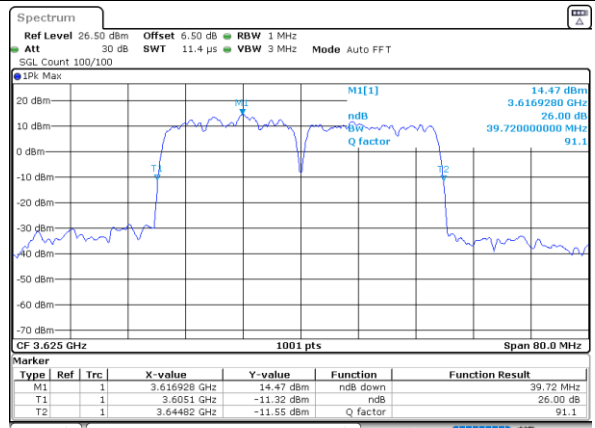
Date: 7.OCT.2022 09:15:34

Middle Channel / 20MHz+20MHz/QPSK



Date: 7.OCT.2022 09:17:05

Middle Channel / 20MHz+20MHz/16QAM



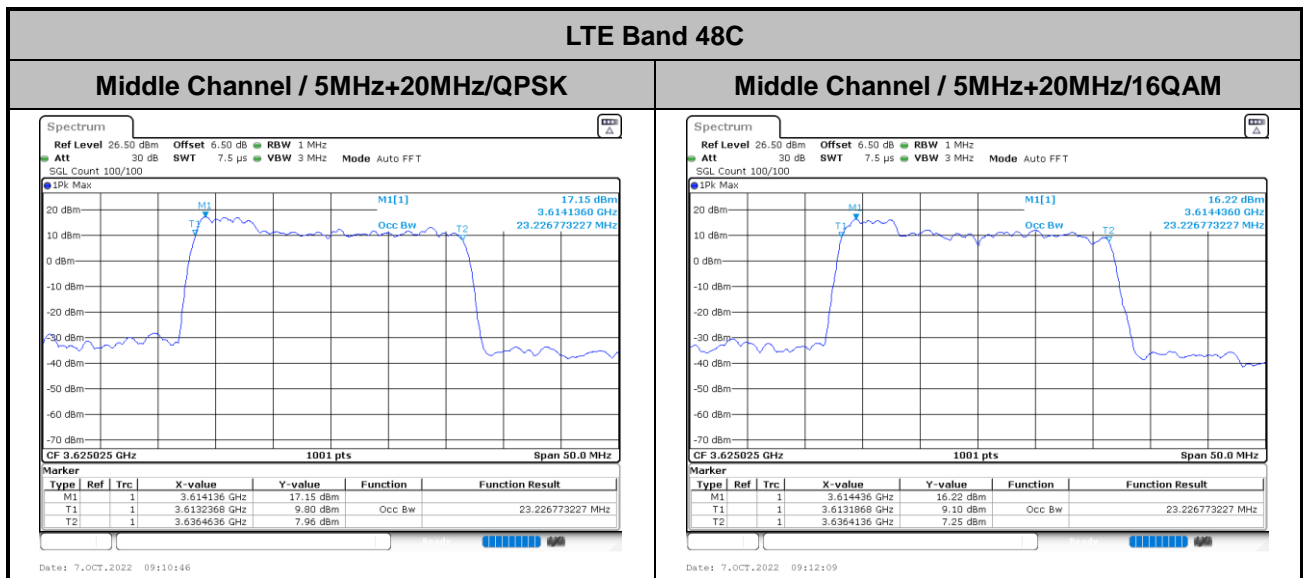
Date: 7.OCT.2022 09:17:33





## Occupied Bandwidth

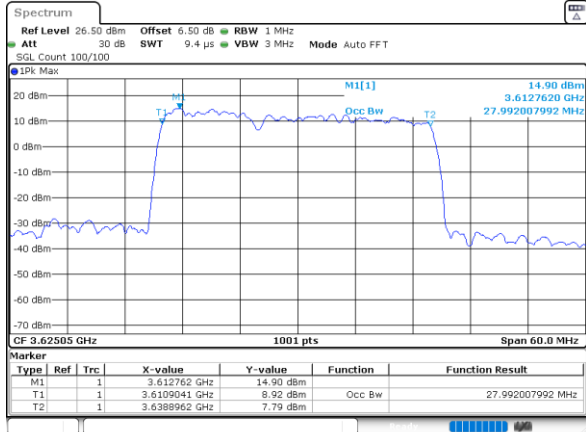
Mode	LTE Band 48C : OBW(MHz)	
QPSK	QPSK	16QAM
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	23.23	23.23
QPSK	QPSK	16QAM
BW	10MHz+20MHz	10MHz+20MHz
Middle CH	27.99	28.11
QPSK	QPSK	16QAM
BW	15MHz+20MHz	15MHz+20MHz
Middle CH	32.80	32.94
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.72	37.56





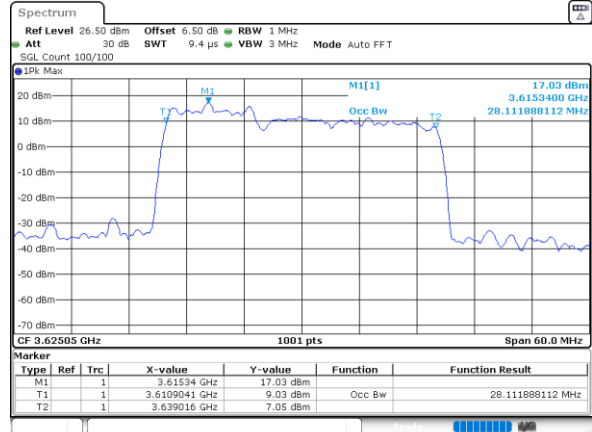
LTE Band 48C

Middle Channel / 10MHz+20MHz/QPSK



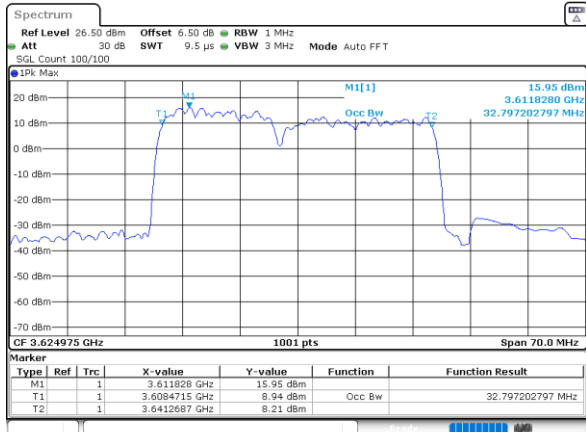
Date: 7.OCT.2022 09:12:11

Middle Channel / 10MHz+20MHz/16QAM



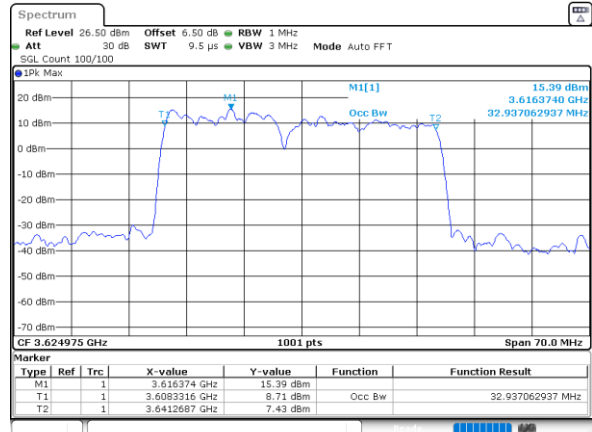
Date: 7.OCT.2022 09:14:07

Middle Channel / 15MHz+20MHz/QPSK



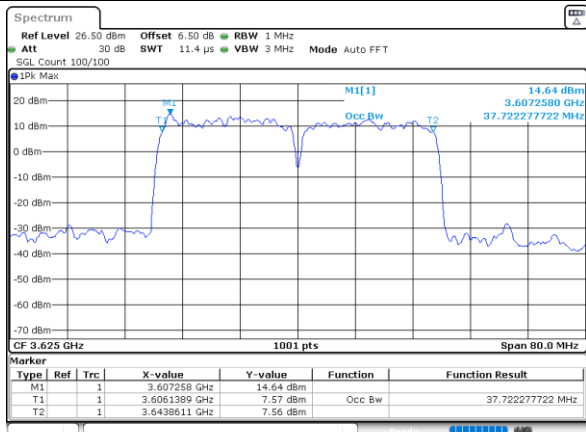
Date: 7.OCT.2022 09:14:38

Middle Channel / 15MHz+20MHz/16QAM



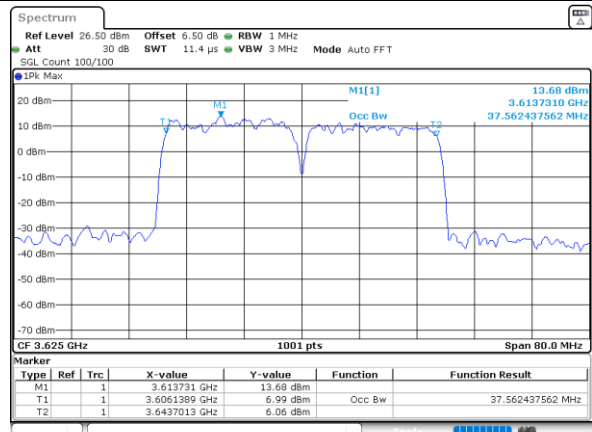
Date: 7.OCT.2022 09:16:01

Middle Channel / 20MHz+20MHz/QPSK



Date: 7.OCT.2022 09:16:37

Middle Channel / 20MHz+20MHz/16QAM



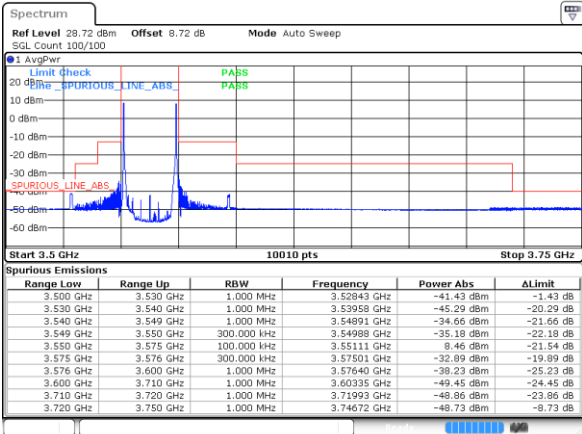
Date: 7.OCT.2022 09:18:00



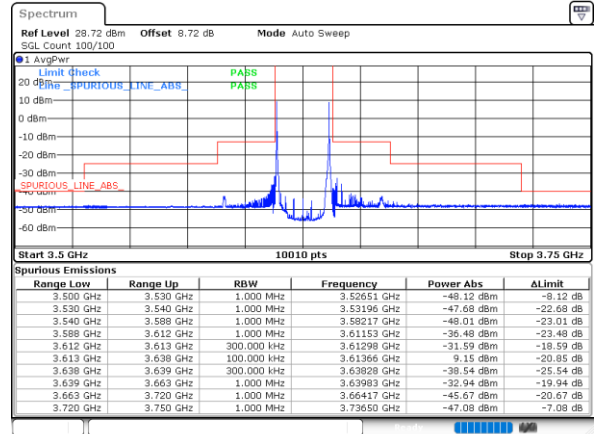
# Conducted Band Edge

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

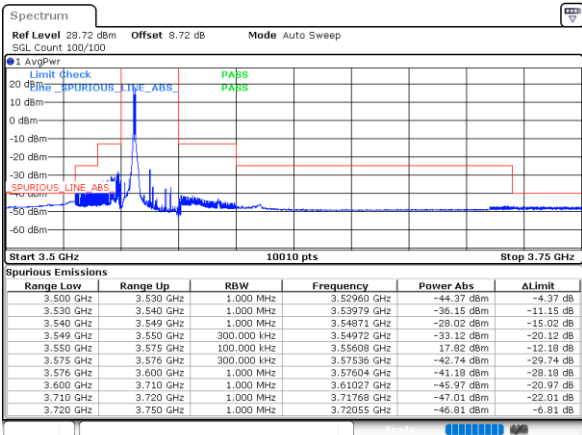
### Lowest Band Edge / 1RB0 and 1RB99



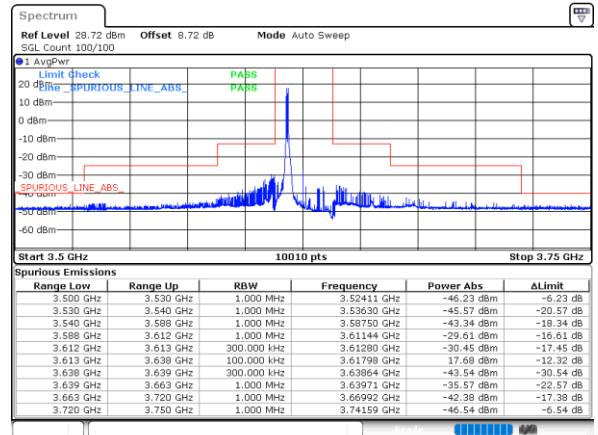
### Middle Band Edge / 1RB0 and 1RB99



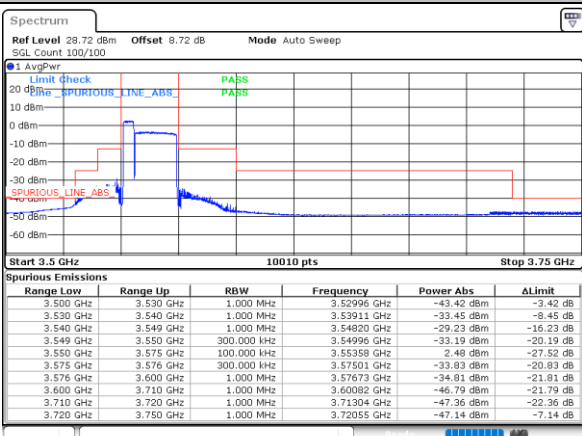
### Lowest Band Edge / 1RB24 and 1RB0



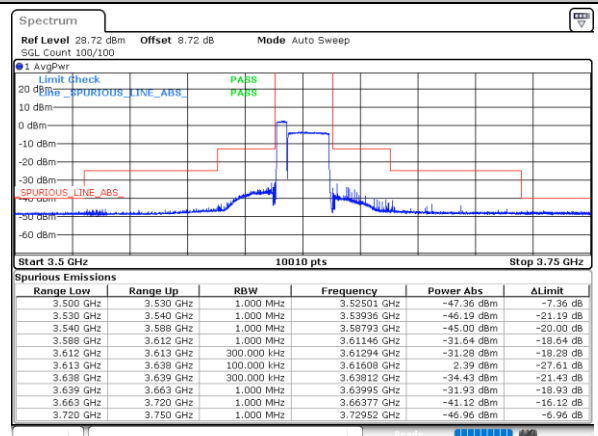
### Middle Band Edge / 1RB24 and 1RB0



### Lowest Band Edge / Full RB



### Middle Band Edge / Full RB

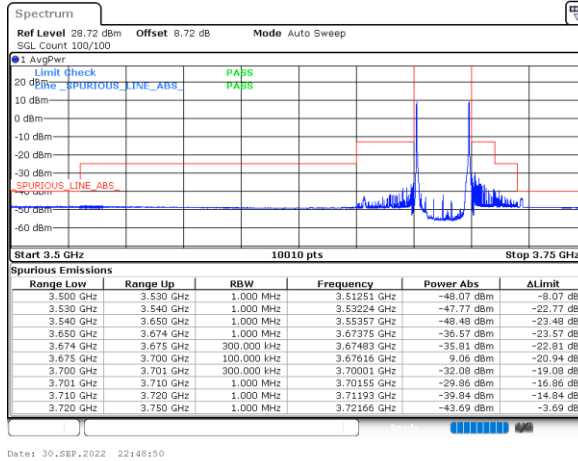




LTE Band 48C / 5MHz+20MHz

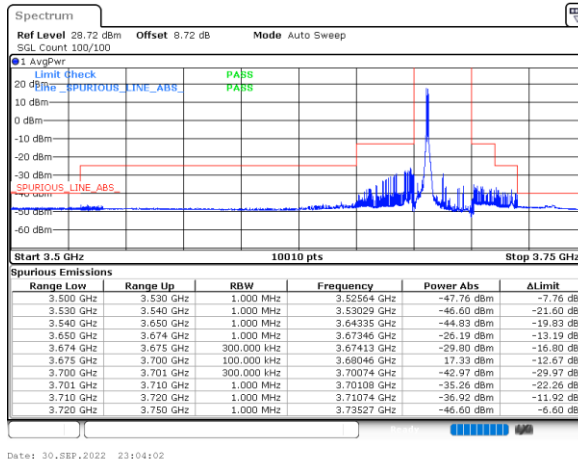
QPSK

Highest Band Edge / 1RB0 and 1RB99



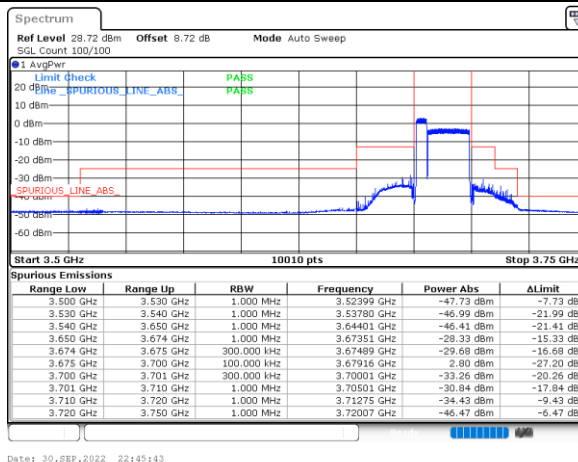
Date: 30,SEP,2022 22:48:50

Highest Band Edge / 1RB24 and 1RB0



Date: 30,SEP,2022 23:04:02

Highest Band Edge / Full RB



Date: 30,SEP,2022 22:45:43

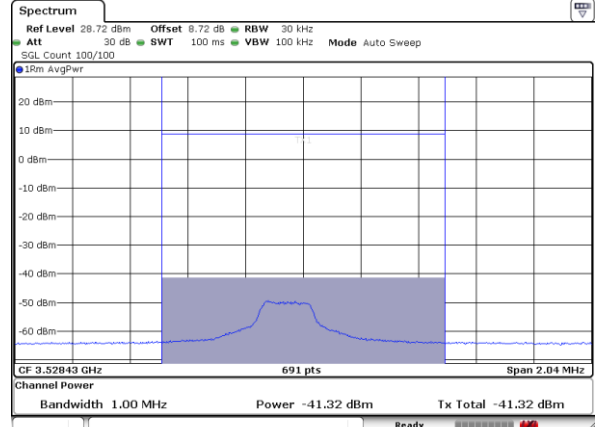
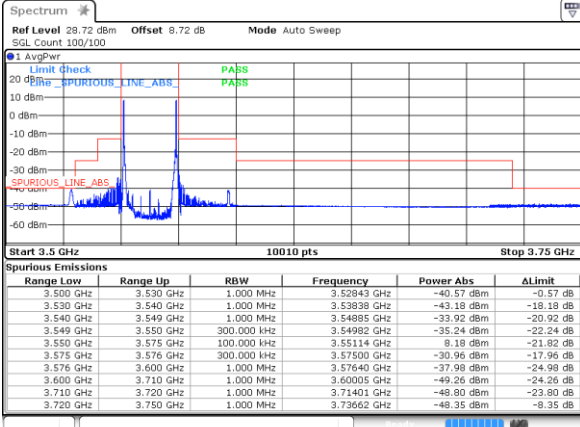


LTE Band 48C / 5MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB99

Lowest Band Edge / 1RB0 and 1RB99

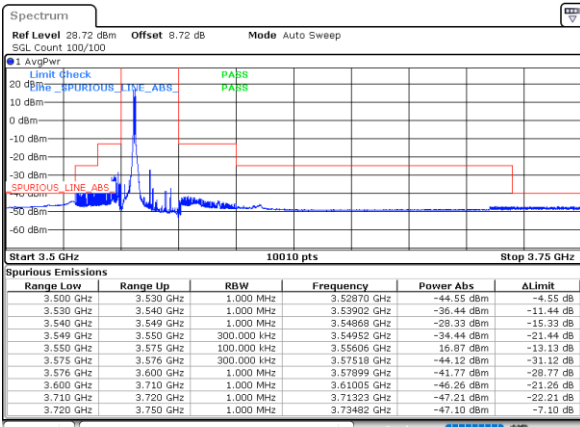


Date: 6.OCT.2022 17:51:36

Date: 6.OCT.2022 18:13:28

Lowest Band Edge / 1RB24 and 1RB0

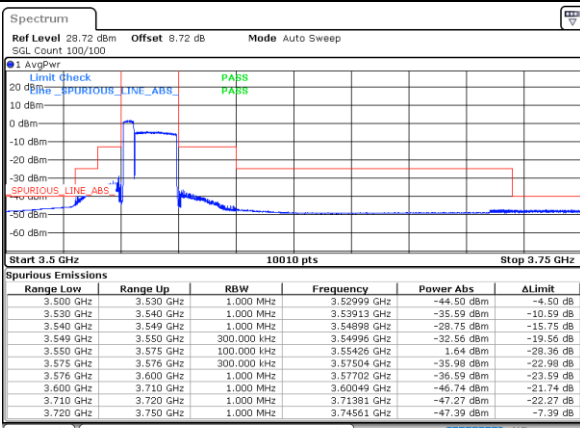
NA



Date: 30.SEP.2022 22:13:10

Lowest Band Edge / Full RB

NA



Date: 30.SEP.2022 22:09:05

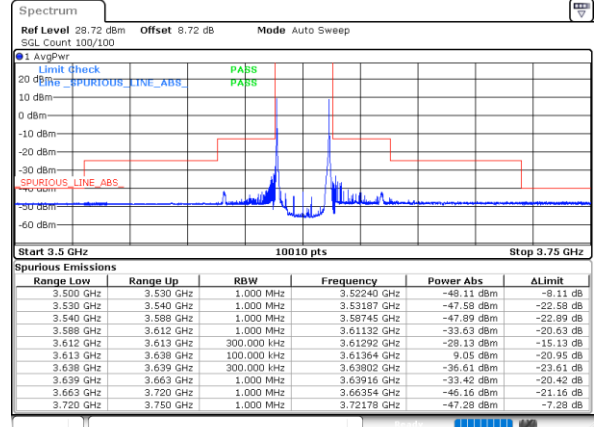
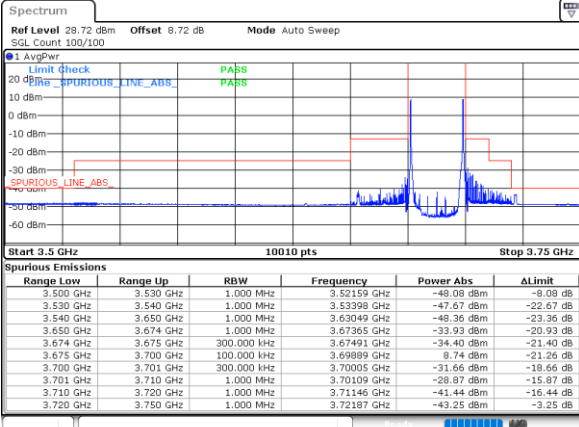


LTE Band 48C / 5MHz+20MHz

16QAM

Highest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

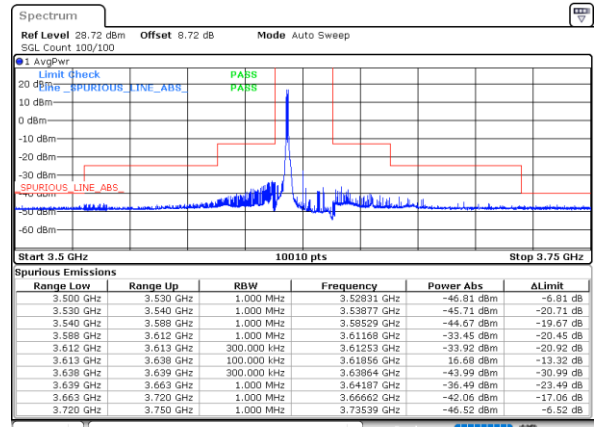
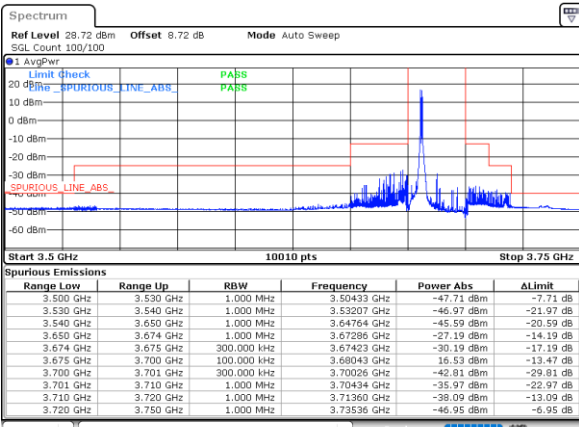


Date: 30\_SEP.2022 22:51:36

Date: 30\_SEP.2022 23:17:12

Highest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0

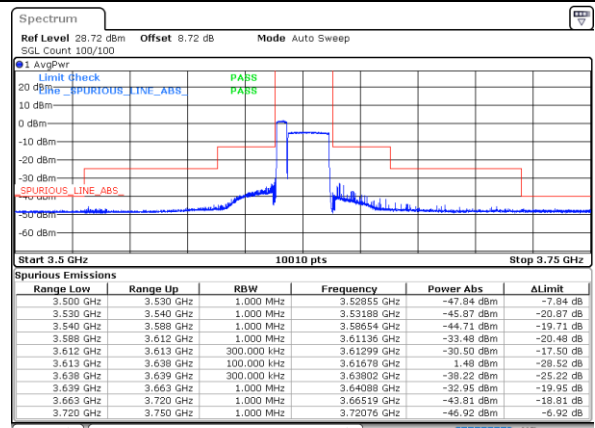
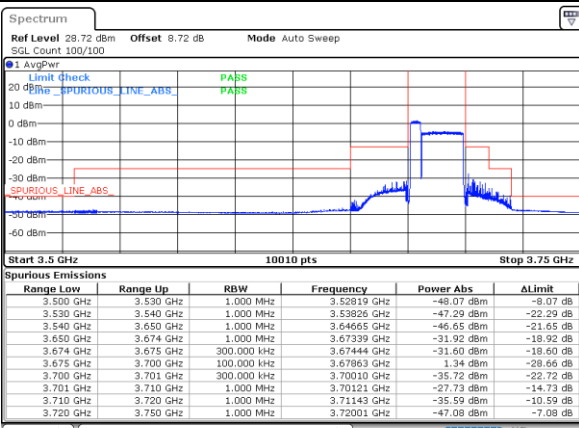


Date: 30\_SEP.2022 22:59:58

Date: 30\_SEP.2022 23:26:28

Highest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 30\_SEP.2022 22:42:36

Date: 30\_SEP.2022 23:09:21

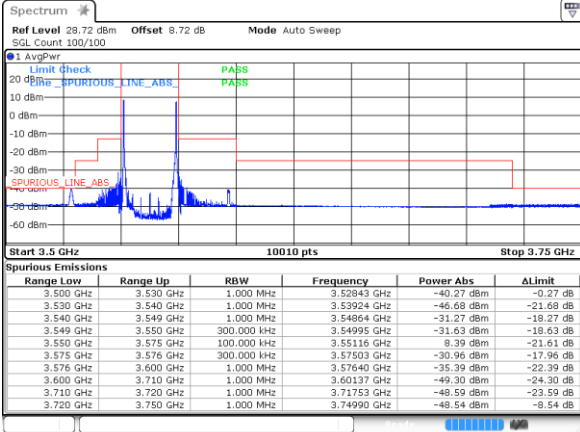


LTE Band 48C / 5MHz+20MHz

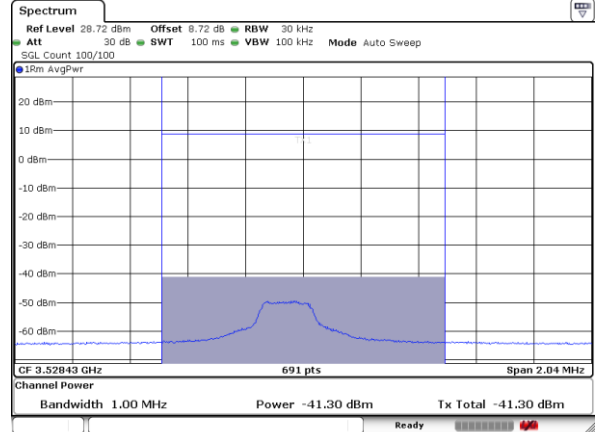
64QAM

Lowest Band Edge / 1RB0 and 1RB99

Lowest Band Edge / 1RB0 and 1RB99



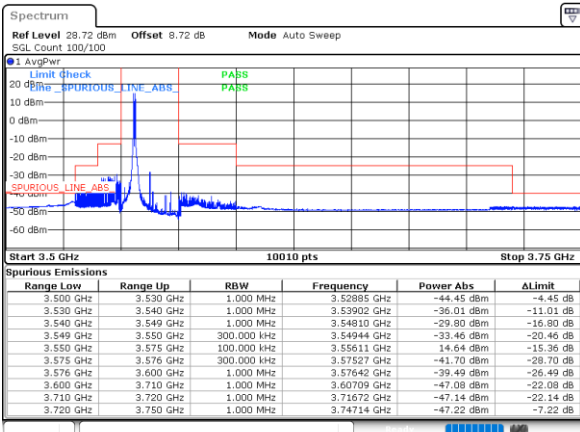
Date: 6.OCT.2022 17:56:02



Date: 6.OCT.2022 18:11:39

Lowest Band Edge / 1RB24 and 1RB0

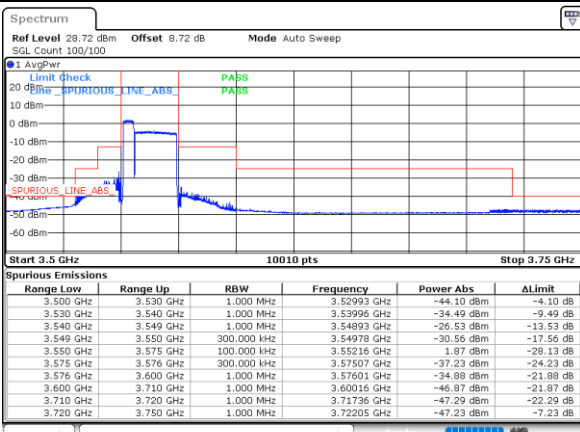
NA



Date: 30.SEP.2022 22:16:17

Lowest Band Edge / Full RB

NA



Date: 30.SEP.2022 22:16:10



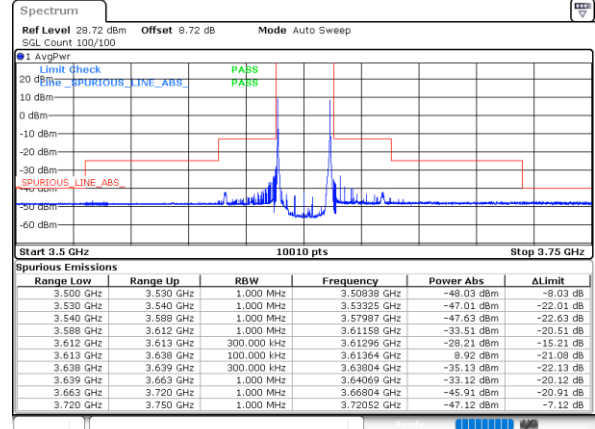
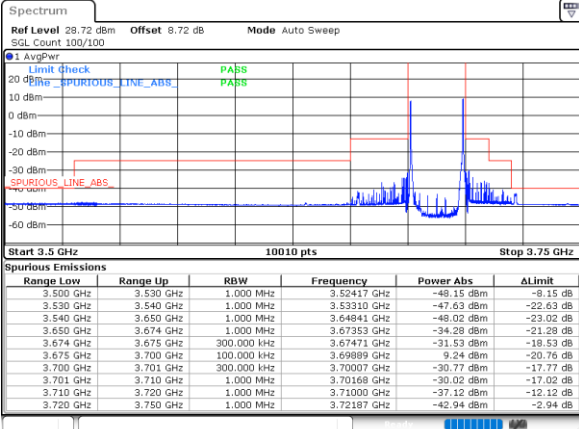


LTE Band 48C / 5MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

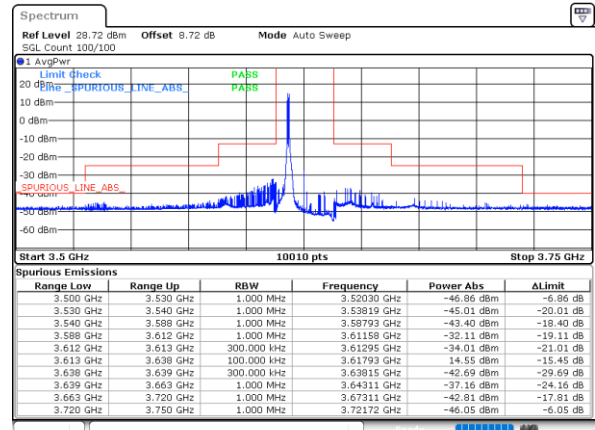
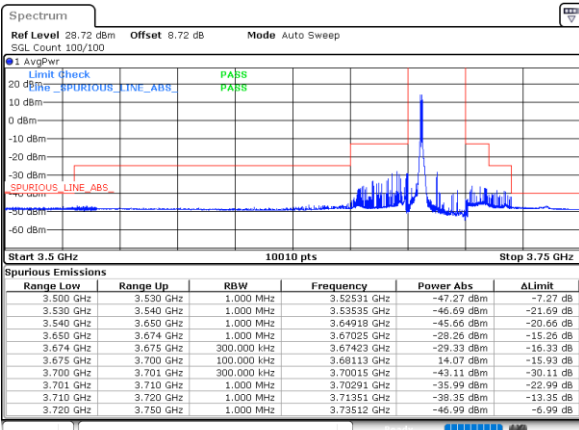


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Date: 30\_SEP.2022 23:14:35

Highest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0

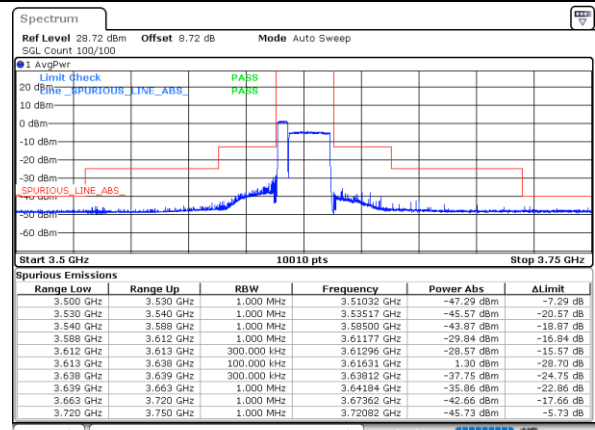
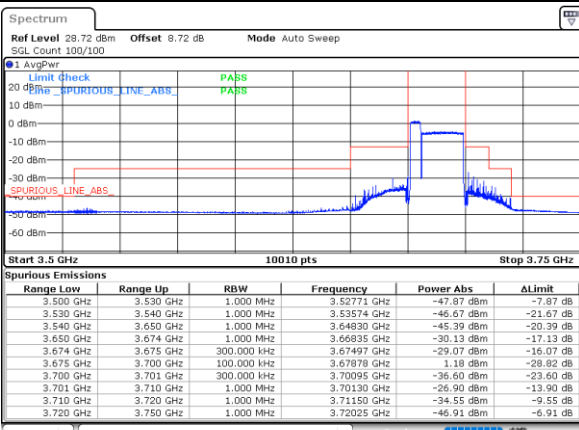


Date: 30\_SEP.2022 22:57:10

Date: 30\_SEP.2022 23:29:05

Highest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 30\_SEP.2022 22:39:30

Date: 30\_SEP.2022 23:11:58

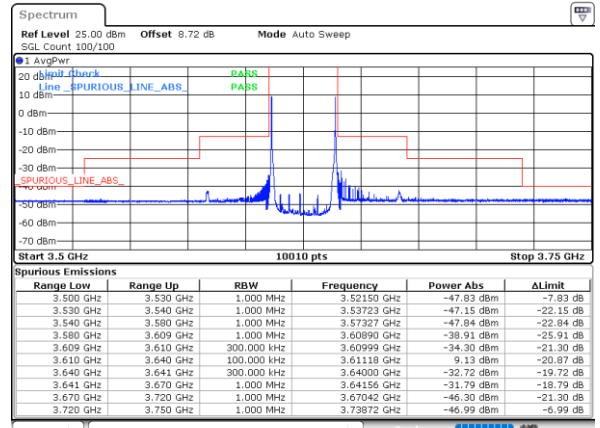
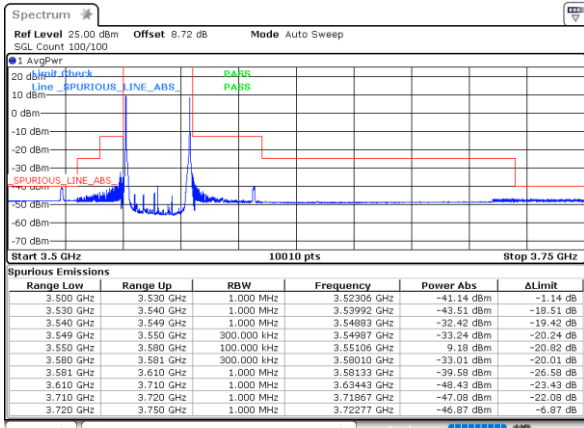


LTE Band 48C / 10MHz+20MHz

QPSK

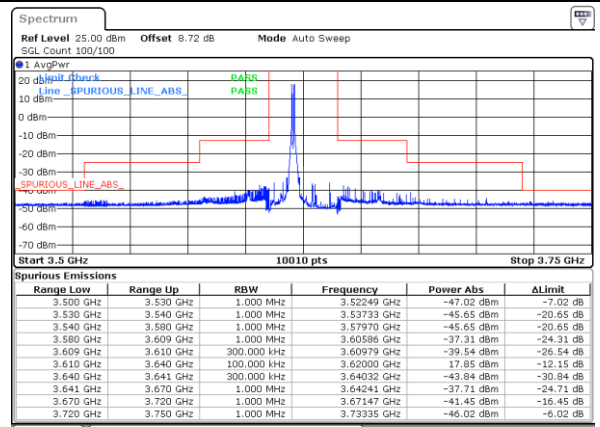
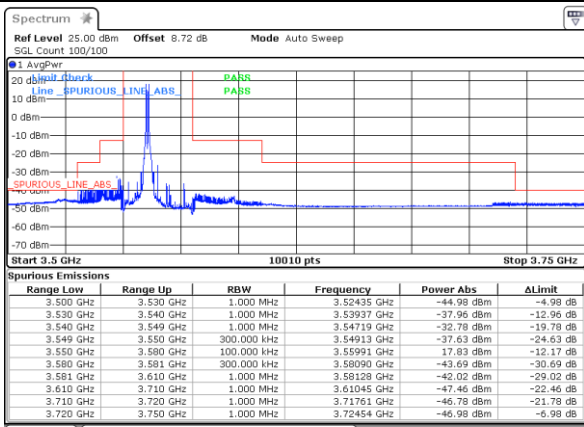
Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9



Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB

