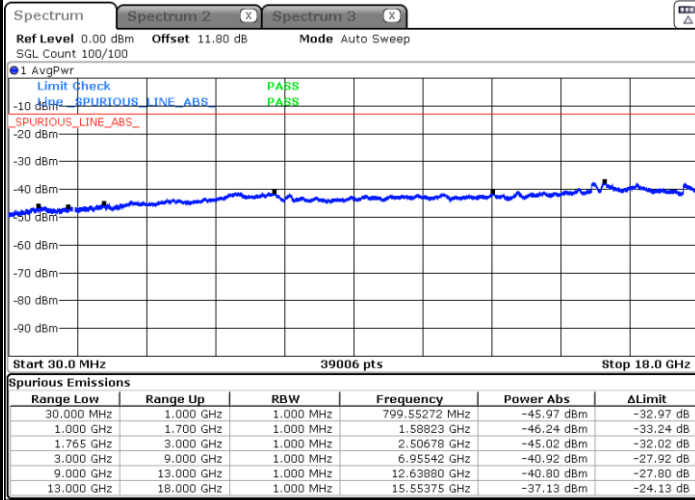




# Conducted Spurious Emission

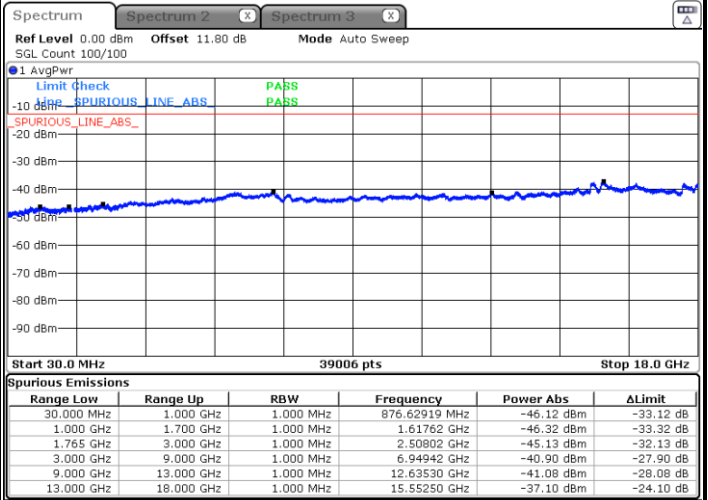
## LTE Band 4 / 1.4MHz

### Lowest Channel / QPSK



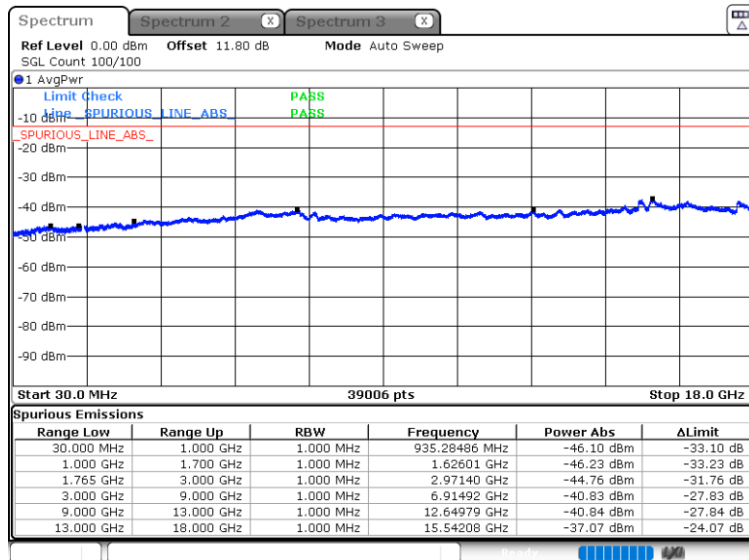
Date: 7.MAR.2024 14:39:45

### Middle Channel / QPSK



Date: 7.MAR.2024 14:50:12

### Highest Channel / QPSK



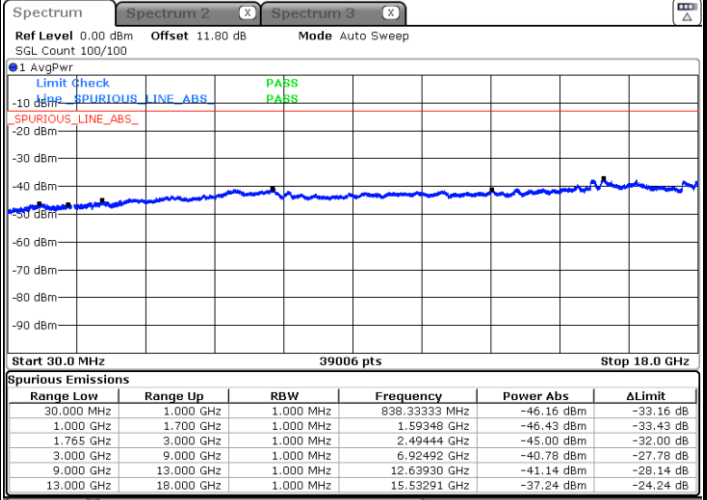
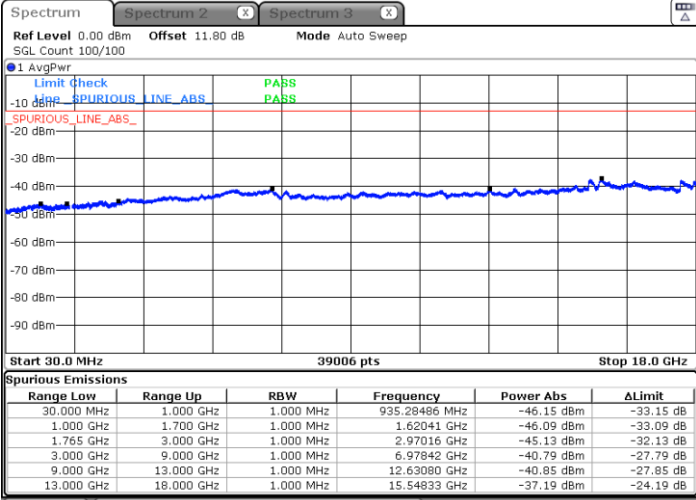
Date: 7.MAR.2024 14:51:13



LTE Band 4 / 3MHz

Lowest Channel / QPSK

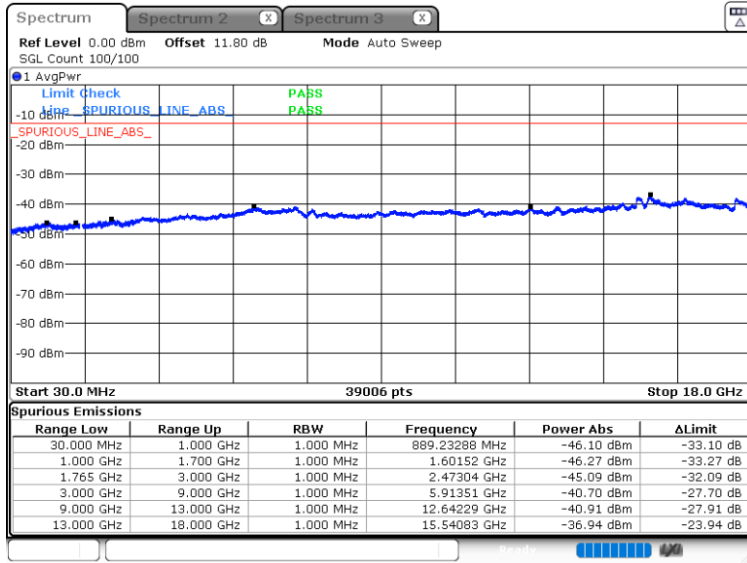
Middle Channel / QPSK



Date: 7.MAR.2024 15:21:59

Date: 7.MAR.2024 15:32:26

Highest Channel / QPSK



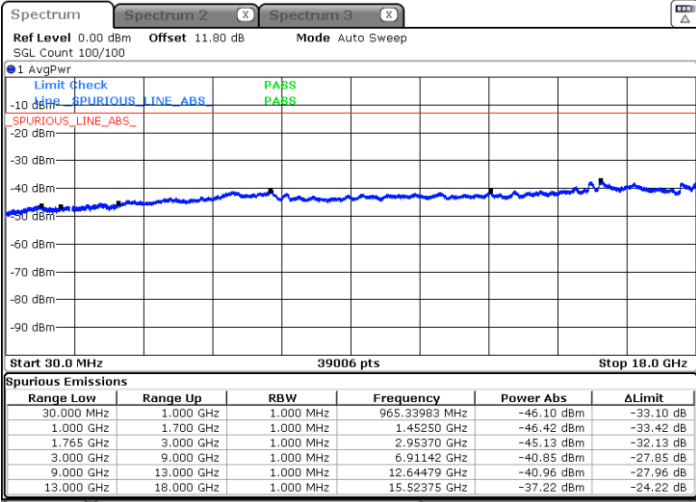
Date: 7.MAR.2024 15:33:27



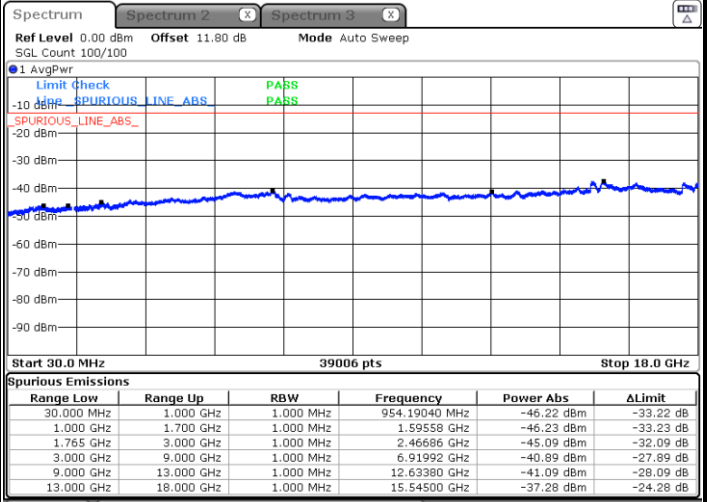
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

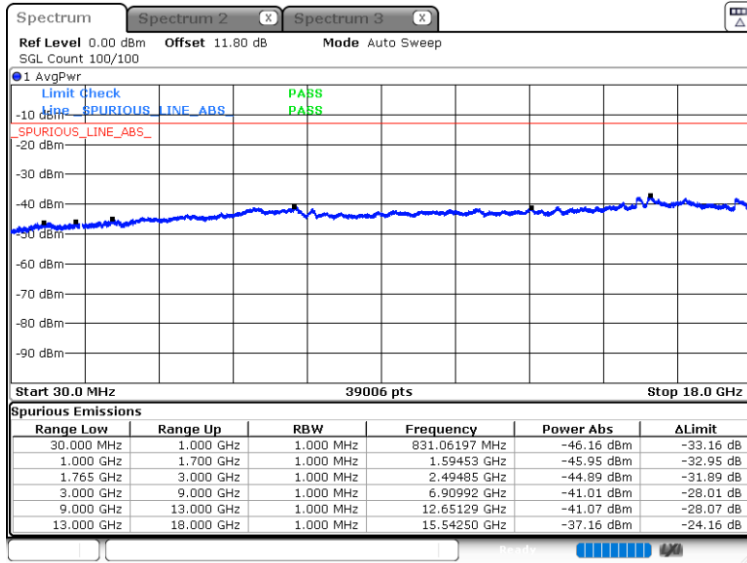


Date: 7.MAR.2024 16:02:15



Date: 7.MAR.2024 16:12:41

Highest Channel / QPSK

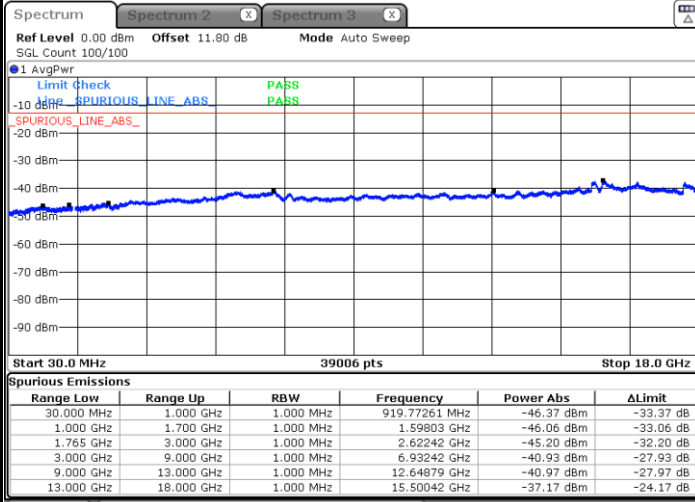


Date: 7.MAR.2024 16:13:42



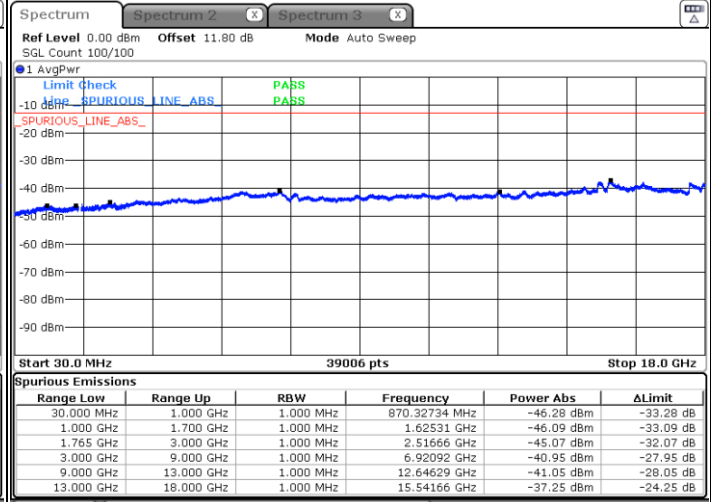
LTE Band 4 / 10MHz

Lowest Channel / QPSK



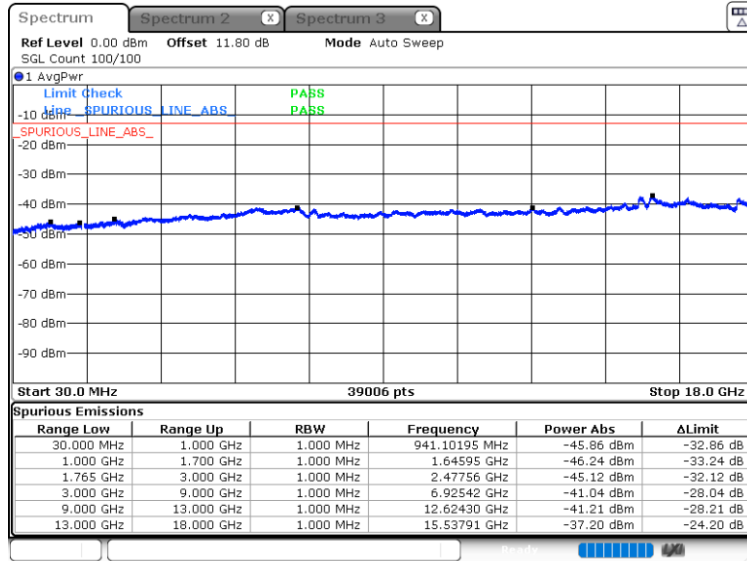
Date: 7.MAR.2024 16:26:38

Middle Channel / QPSK



Date: 7.MAR.2024 16:37:05

Highest Channel / QPSK

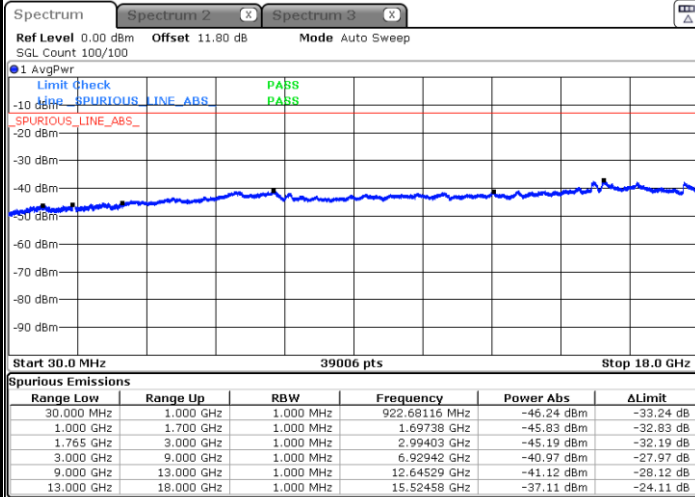


Date: 7.MAR.2024 16:38:06



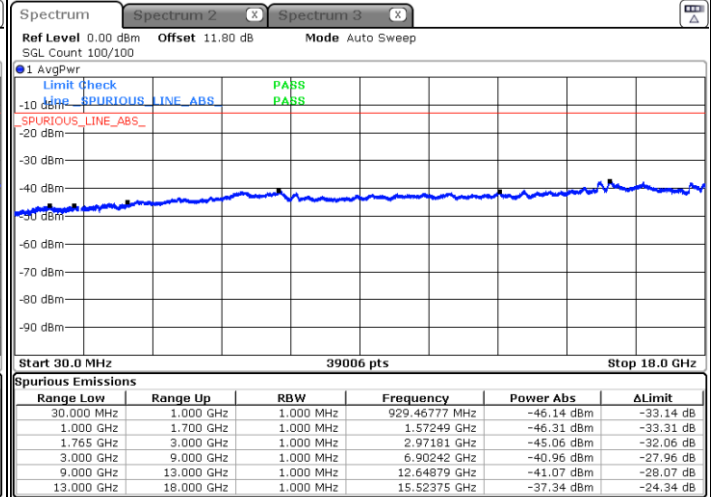
LTE Band 4 / 15MHz

Lowest Channel / QPSK



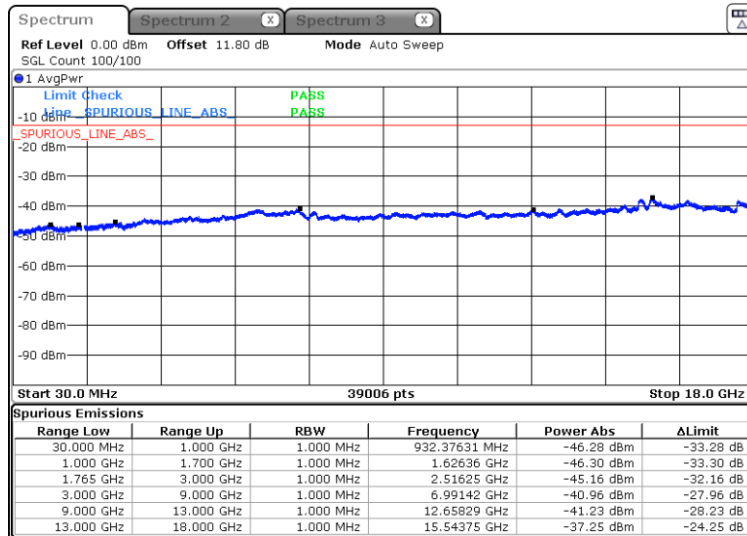
Date: 7.MAR.2024 17:31:12

Middle Channel / QPSK



Date: 7.MAR.2024 17:41:38

Highest Channel / QPSK



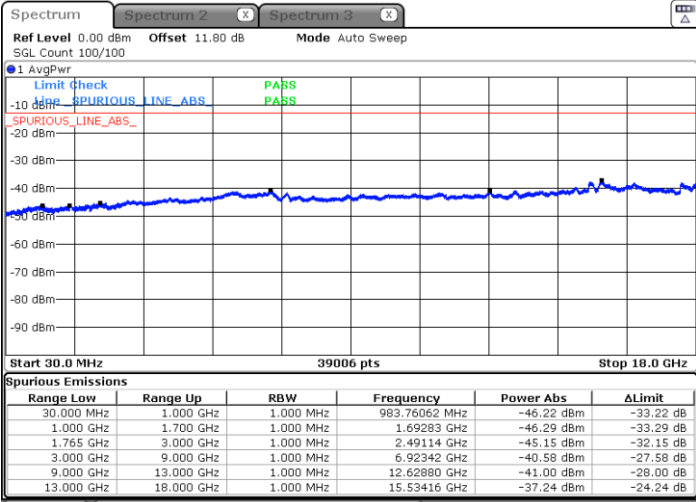
Date: 7.MAR.2024 17:42:39



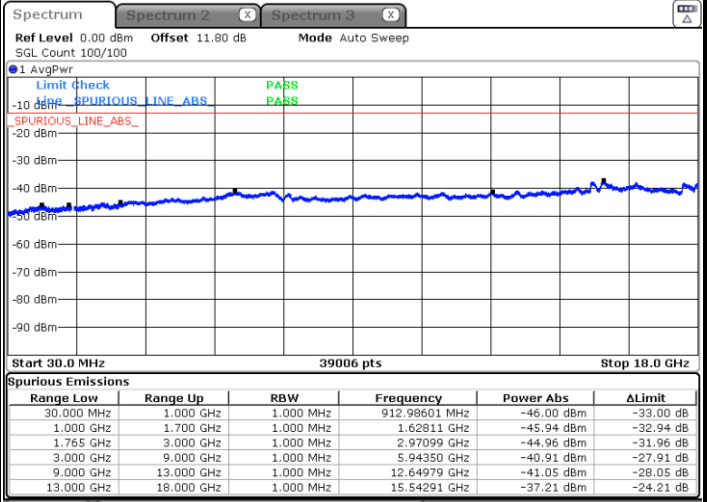
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

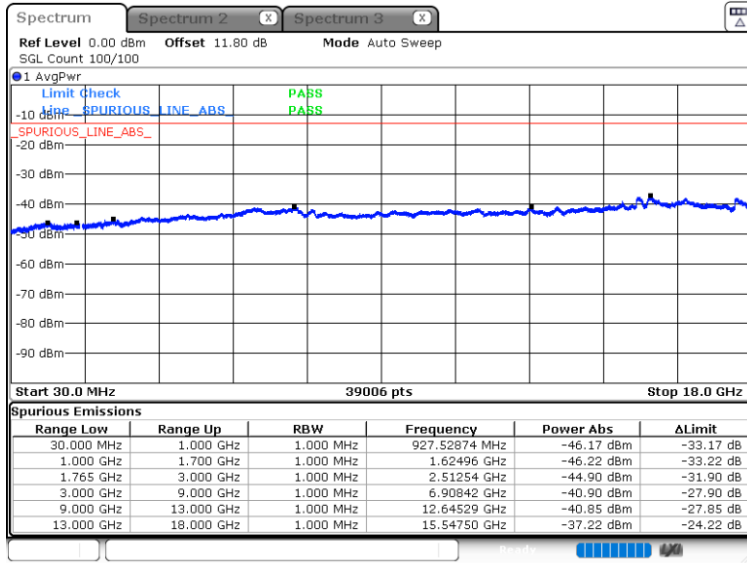


Date: 7.MAR.2024 17:57:32



Date: 7.MAR.2024 18:07:58

Highest Channel / QPSK



Date: 7.MAR.2024 18:08:59



**Frequency Stability**

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0073	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0080	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0070	
-10	Normal Voltage	0.0057	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0074	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0083	

**Note:**

- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5B

### 26dB Bandwidth

Mode	LTE Band 5B : 26dB BW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.34	8.80	14.68
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.80	19.73	-

Mode	LTE Band 5B : 26dB BW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	10.43	10.32	14.62
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.74	19.73	-

Mode	LTE Band 5B : 26dB BW(MHz)		
64QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.72	9.27	14.68
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.86	19.69	-

Mode	LTE Band 5B : 26dB BW(MHz)		
256QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.32	8.31	14.71
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.74	19.85	-

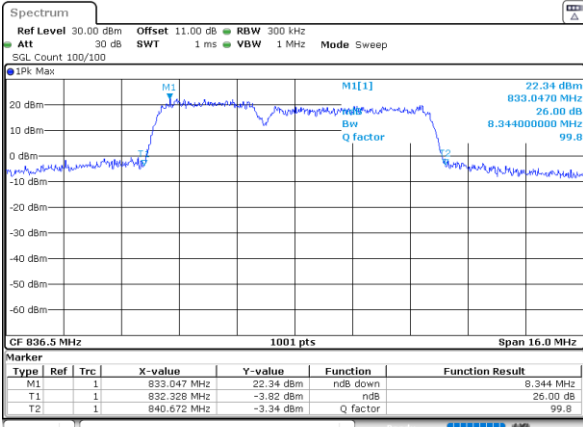




LTE Band 5B

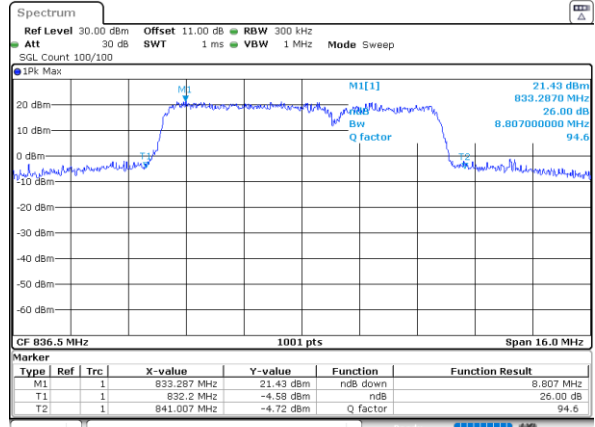
QPSK

Middle Channel / 3MHz+5MHz



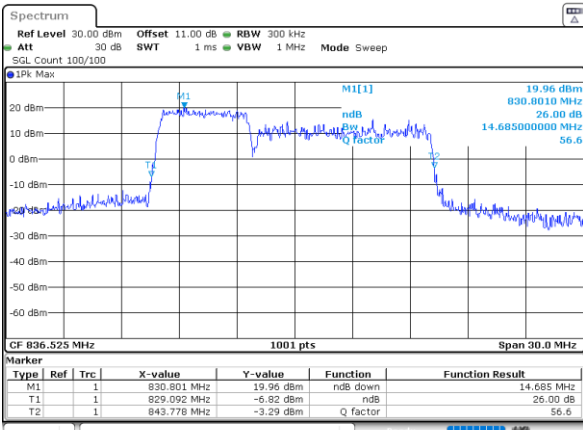
Date: 28.FEB.2024 17:23:27

Middle Channel / 5MHz+3MHz



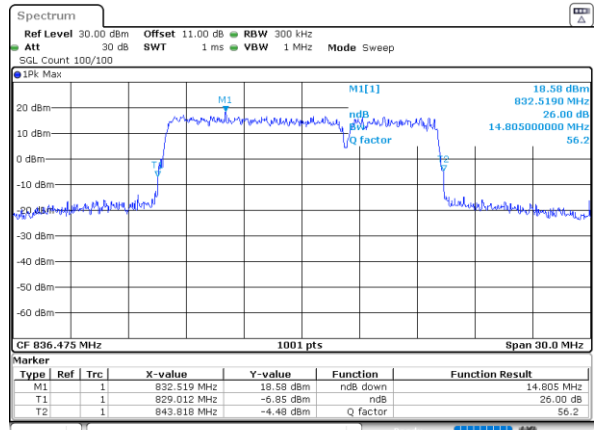
Date: 28.FEB.2024 18:10:53

Middle Channel / 5MHz+10MHz



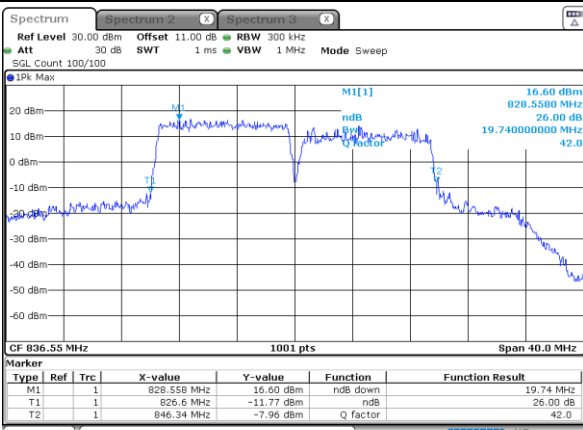
Date: 28.FEB.2024 18:58:41

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:47:18

Middle Channel / 10MHz+10MHz



Date: 8.MAR.2024 10:46:32

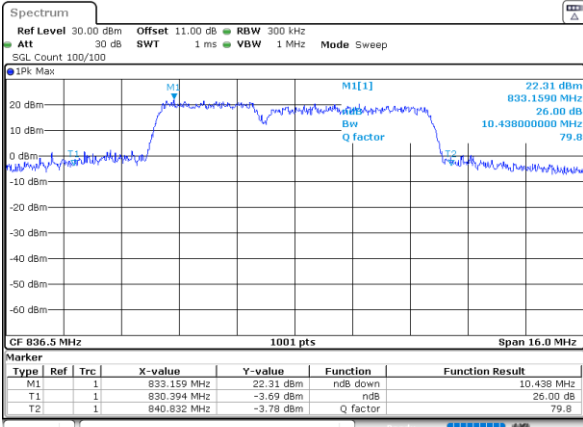
N/A



LTE Band 5B

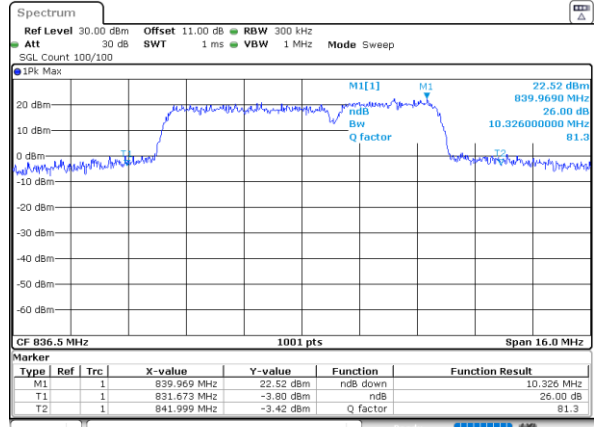
16QAM

Middle Channel / 3MHz+5MHz



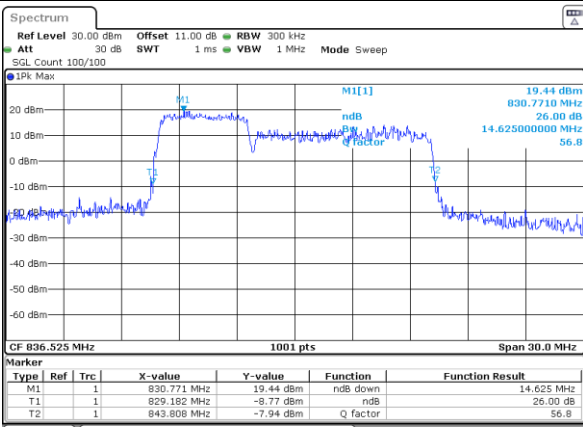
Date: 28.FEB.2024 17:23:57

Middle Channel / 5MHz+3MHz



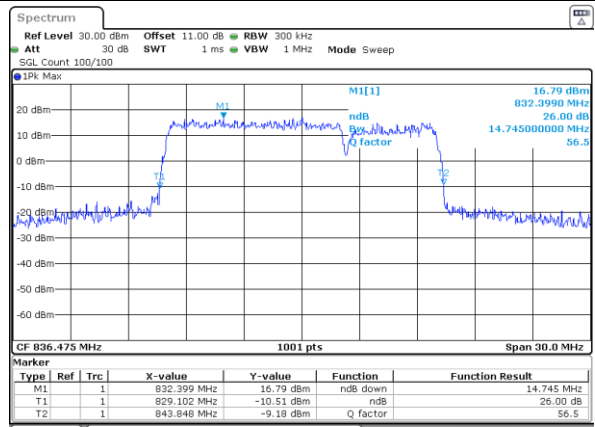
Date: 28.FEB.2024 18:11:23

Middle Channel / 5MHz+10MHz



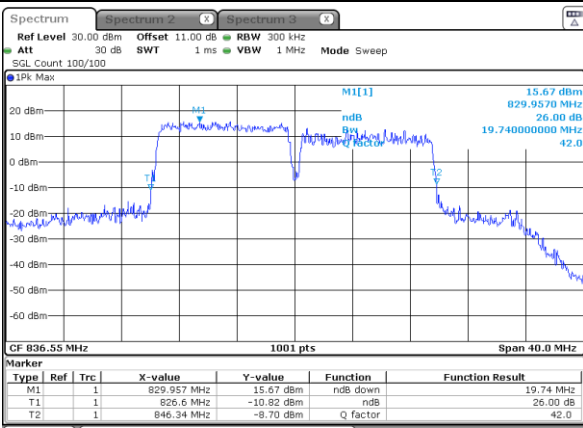
Date: 28.FEB.2024 18:59:11

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:47:48

Middle Channel / 10MHz+10MHz



Date: 8.MAR.2024 10:47:18

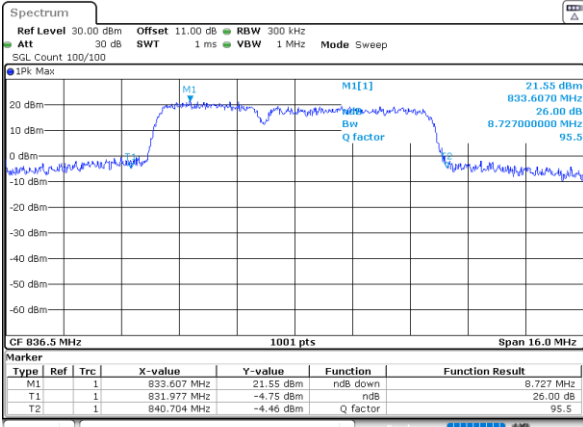
N/A



LTE Band 5B

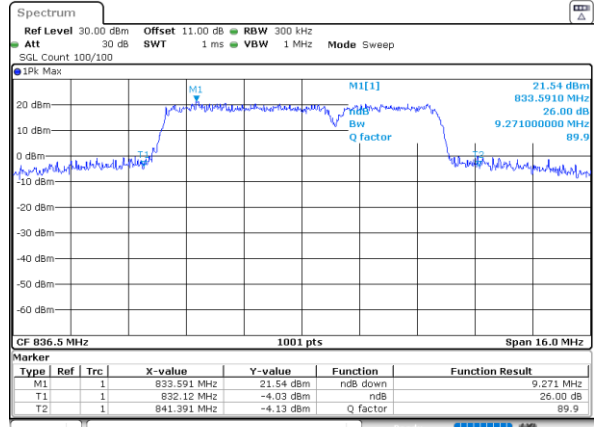
64QAM

Middle Channel / 3MHz+5MHz



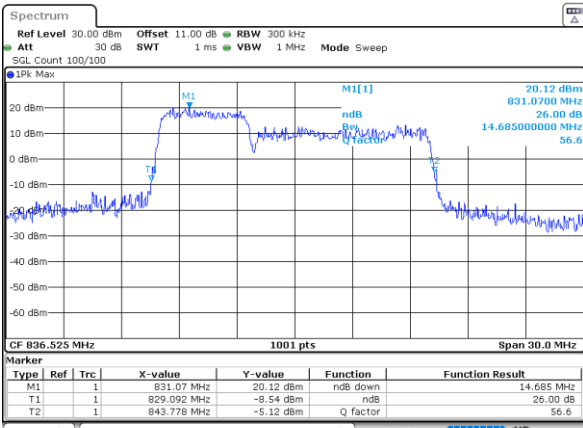
Date: 28.FEB.2024 17:24:27

Middle Channel / 5MHz+3MHz



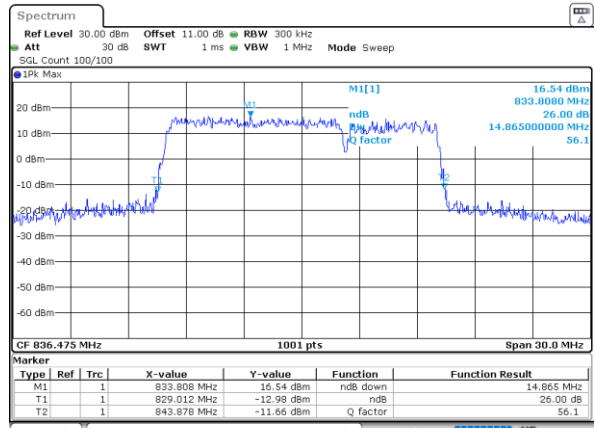
Date: 28.FEB.2024 18:11:54

Middle Channel / 5MHz+10MHz



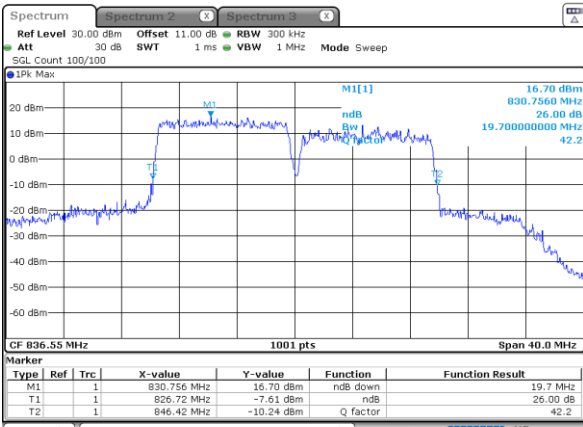
Date: 28.FEB.2024 18:59:41

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:48:18

Middle Channel / 10MHz+10MHz



Date: 8.MAR.2024 10:48:27

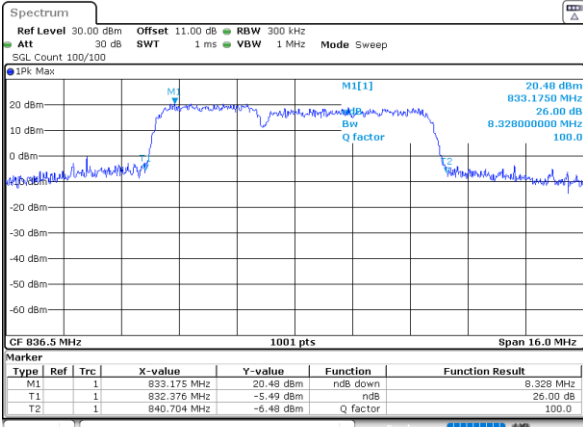
N/A



LTE Band 5B

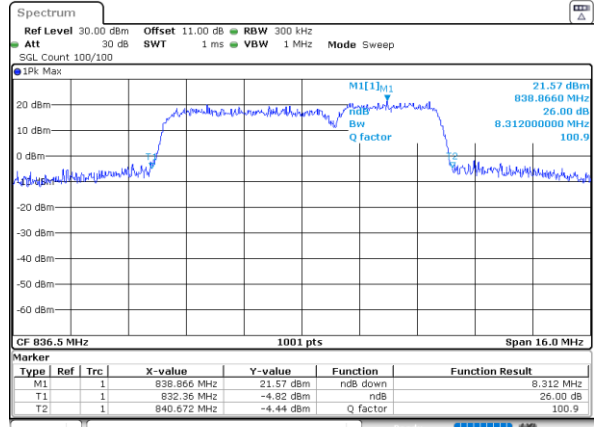
256QAM

Middle Channel / 3MHz+5MHz



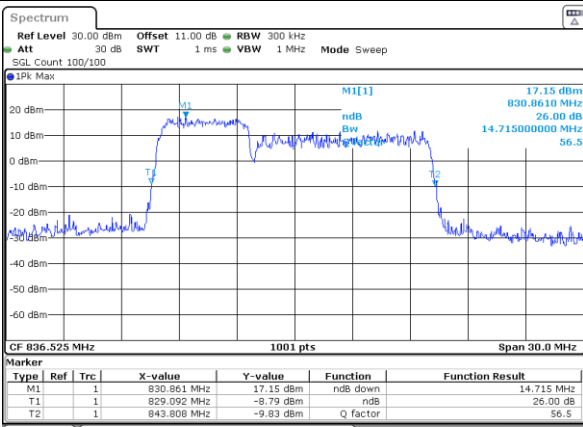
Date: 28.FEB.2024 17:24:57

Middle Channel / 5MHz+3MHz



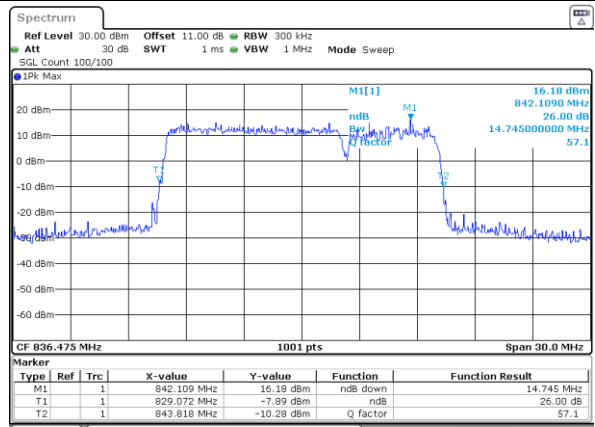
Date: 28.FEB.2024 18:12:24

Middle Channel / 5MHz+10MHz



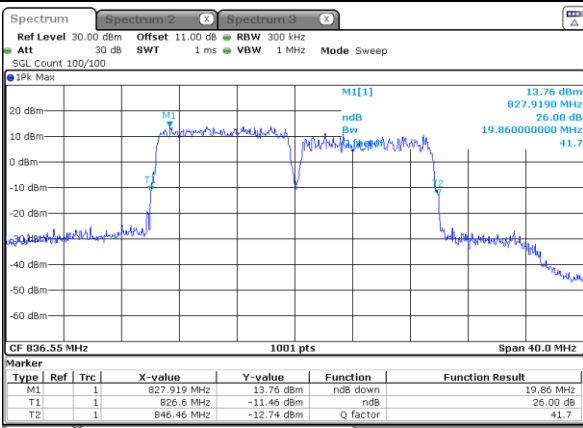
Date: 28.FEB.2024 19:00:11

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:48:48

Middle Channel / 10MHz+10MHz



Date: 8.MAR.2024 10:49:57

N/A



### Occupied Bandwidth

Mode	LTE Band 5B : 99%OBW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.65	7.68	13.90
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.93	18.74	-

Mode	LTE Band 5B : 99%OBW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.80	7.78	13.87
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.87	18.74	-

Mode	LTE Band 5B : 99%OBW(MHz)		
64QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.70	7.73	13.93
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.90	18.74	-

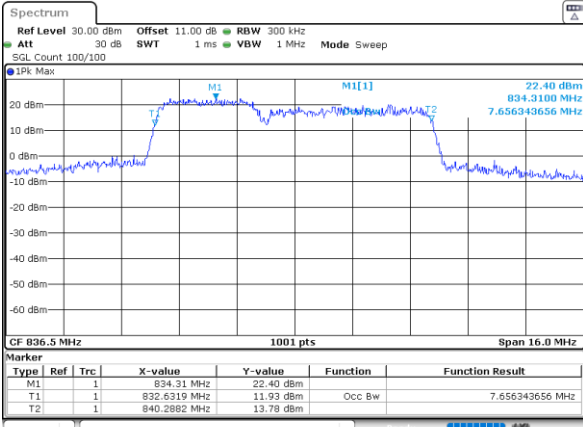
Mode	LTE Band 5B : 99%OBW(MHz)		
254QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.67	7.64	13.81
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.90	18.74	-



LTE Band 5B

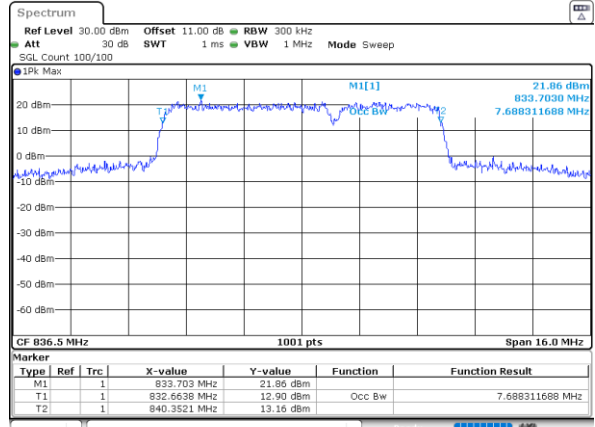
QPSK

Middle Channel / 3MHz+5MHz



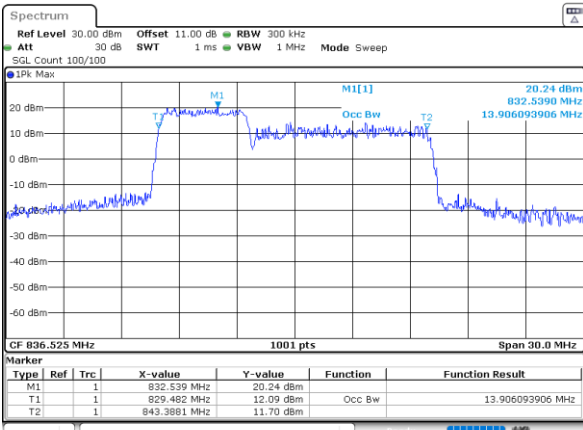
Date: 28.FEB.2024 17:21:27

Middle Channel / 5MHz+3MHz



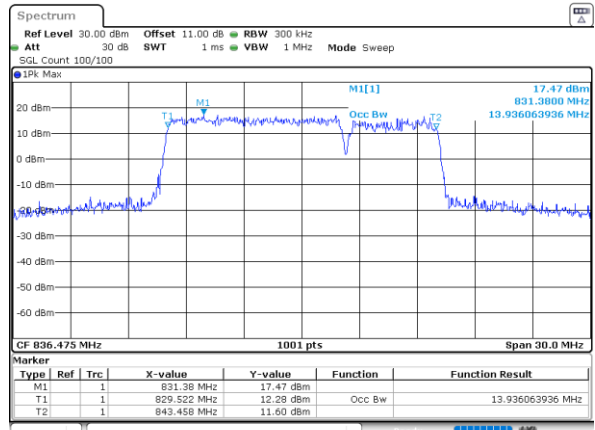
Date: 28.FEB.2024 18:08:53

Middle Channel / 5MHz+10MHz



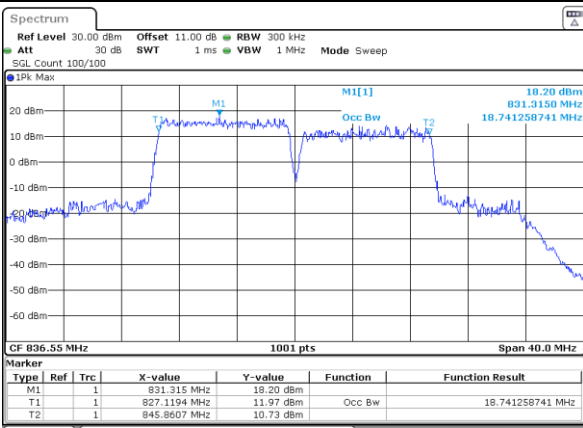
Date: 28.FEB.2024 18:56:40

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:45:17

Middle Channel / 10MHz+10MHz



Date: 28.FEB.2024 20:32:41

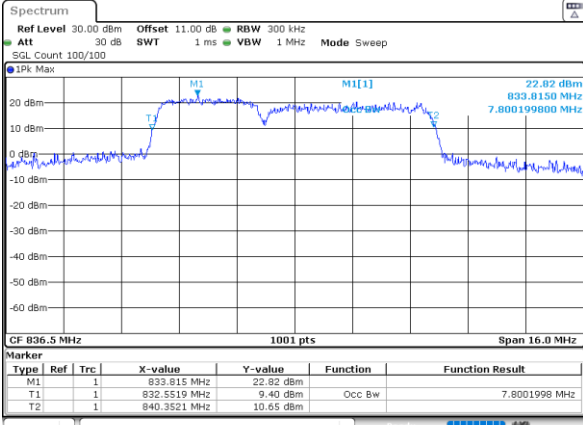
N/A



LTE Band 5B

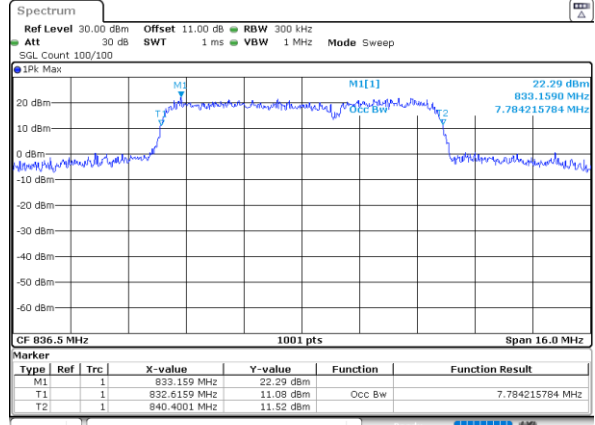
16QAM

Middle Channel / 3MHz+5MHz



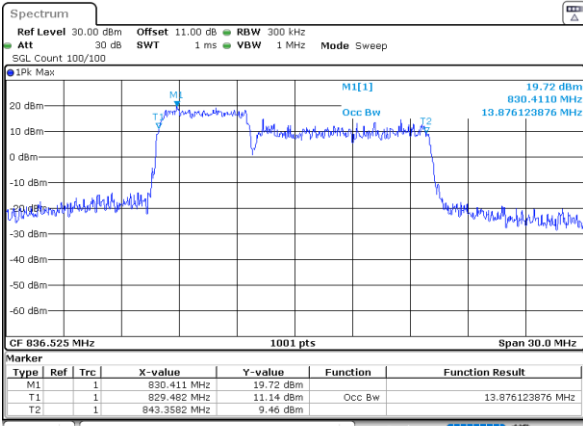
Date: 28.FEB.2024 17:21:57

Middle Channel / 5MHz+3MHz



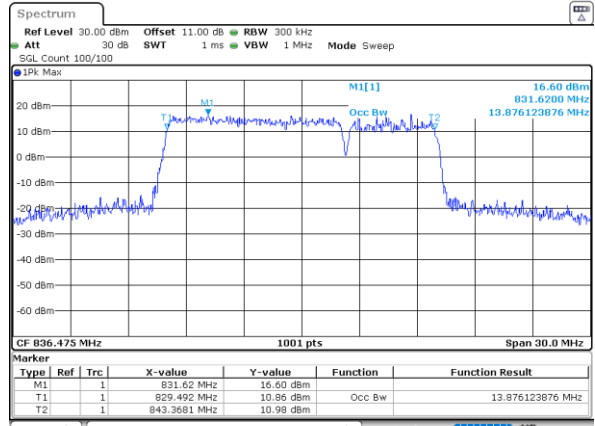
Date: 28.FEB.2024 18:09:23

Middle Channel / 5MHz+10MHz



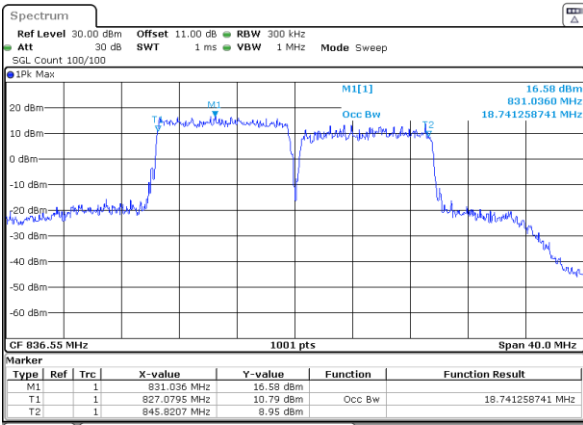
Date: 28.FEB.2024 18:57:10

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:45:47

Middle Channel / 10MHz+10MHz



Date: 28.FEB.2024 20:33:09

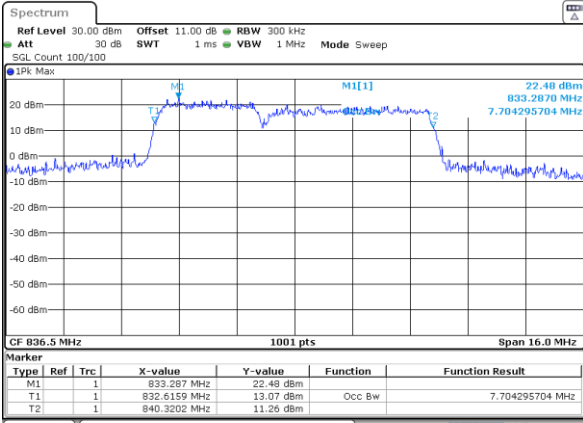
N/A



LTE Band 5B

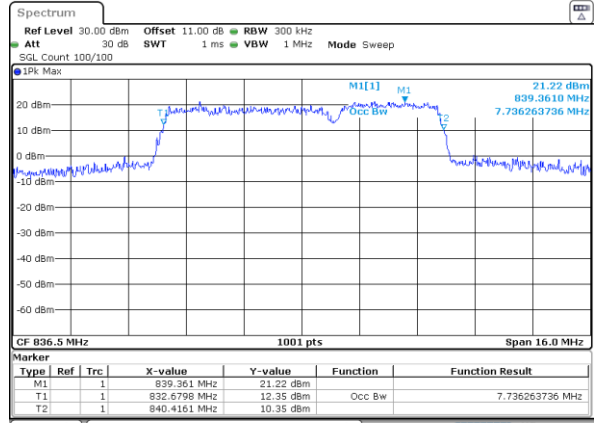
64QAM

Middle Channel / 3MHz+5MHz



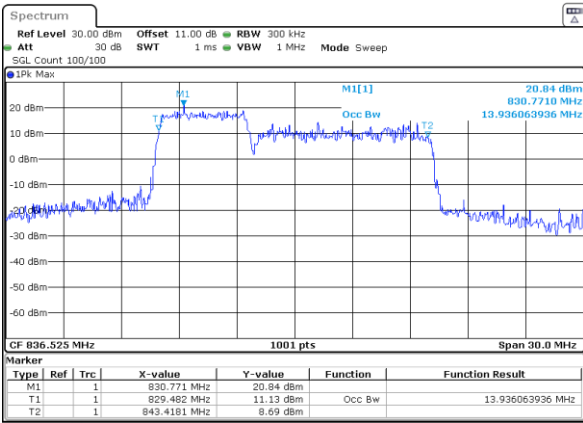
Date: 28.FEB.2024 17:22:27

Middle Channel / 5MHz+3MHz



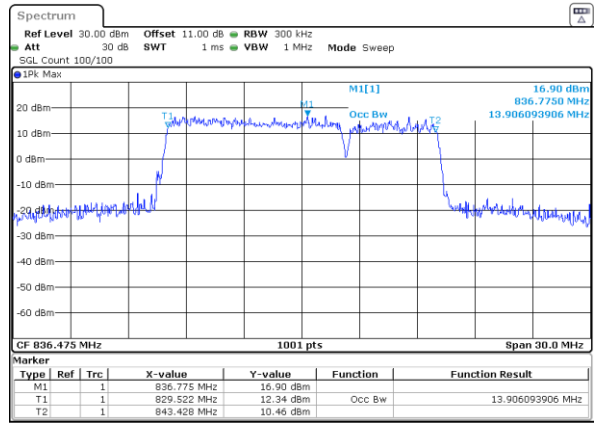
Date: 28.FEB.2024 18:09:53

Middle Channel / 5MHz+10MHz



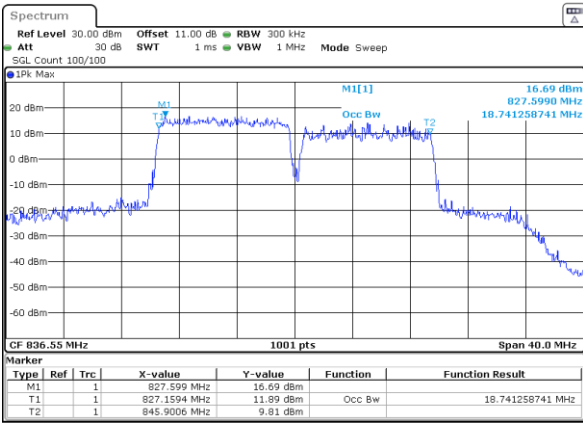
Date: 28.FEB.2024 18:57:40

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:46:17

Middle Channel / 10MHz+10MHz



Date: 28.FEB.2024 20:33:37

N/A

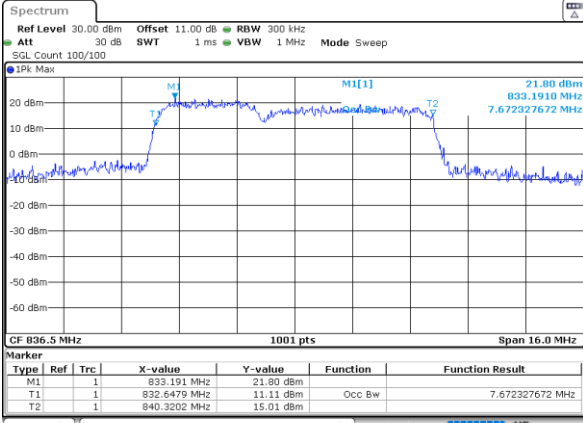




LTE Band 5B

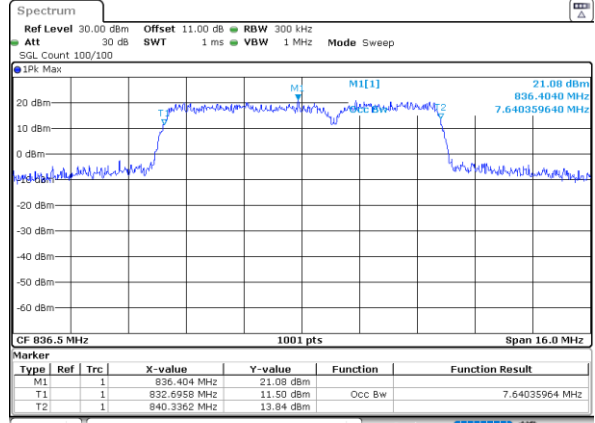
256QAM

Middle Channel / 3MHz+5MHz



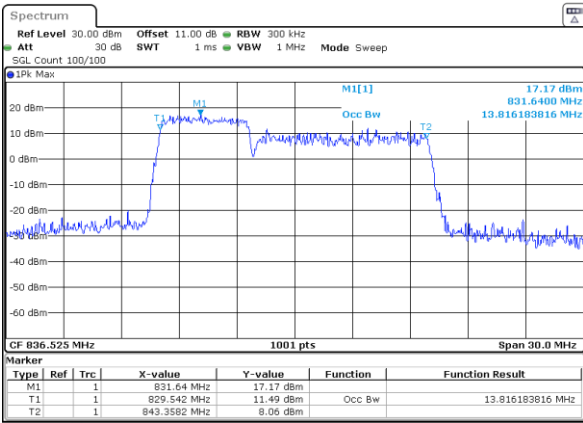
Date: 28.FEB.2024 17:22:57

Middle Channel / 5MHz+3MHz



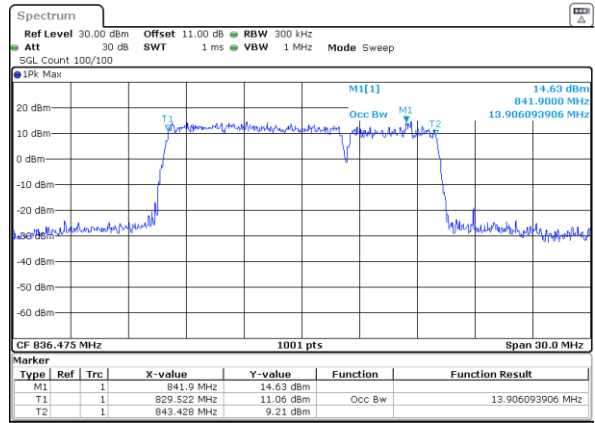
Date: 28.FEB.2024 18:10:23

Middle Channel / 5MHz+10MHz



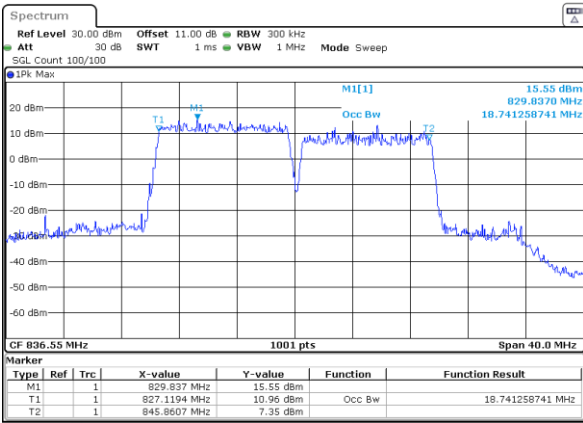
Date: 28.FEB.2024 18:58:11

Middle Channel / 10MHz+5MHz



Date: 28.FEB.2024 19:46:47

Middle Channel / 10MHz+10MHz



Date: 28.FEB.2024 20:34:04

N/A



**Conducted Band Edge**

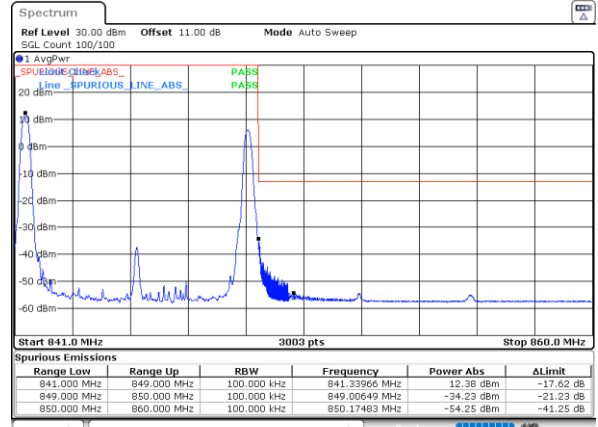
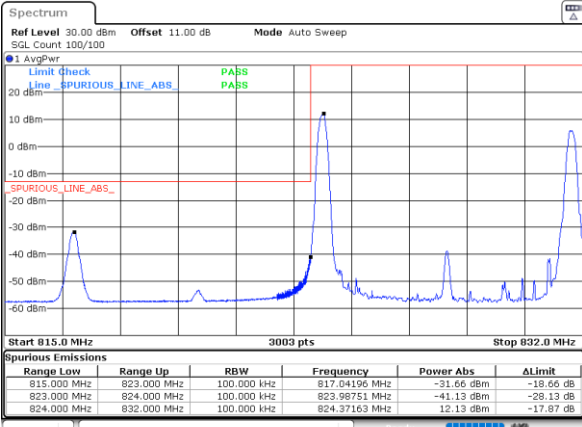


LTE Band 5B / 3MHz+5MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24

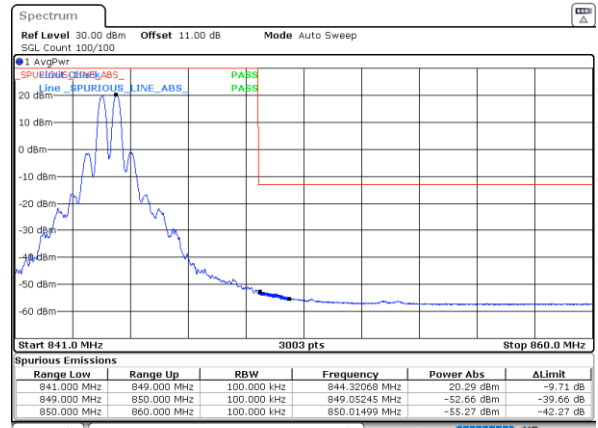
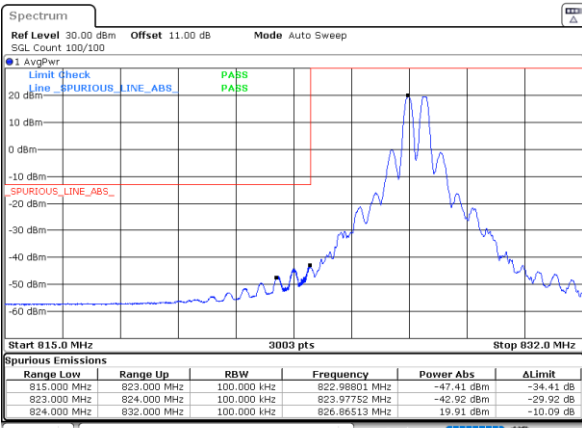


Date: 28.FEB.2024 17:07:57

Date: 28.FEB.2024 14:54:10

Lowest Band Edge / 1RB14 and 1RB0

Highest Band Edge / 1RB14 and 1RB0

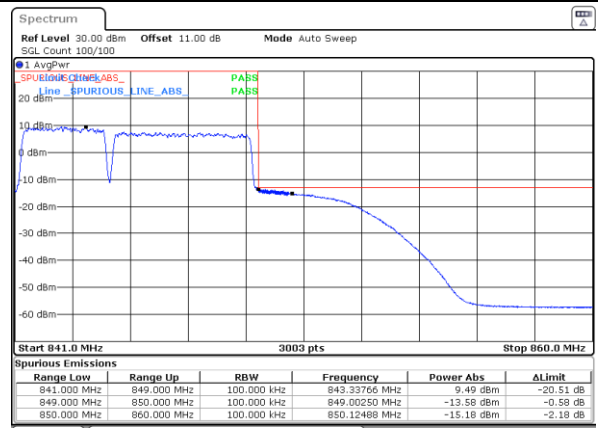
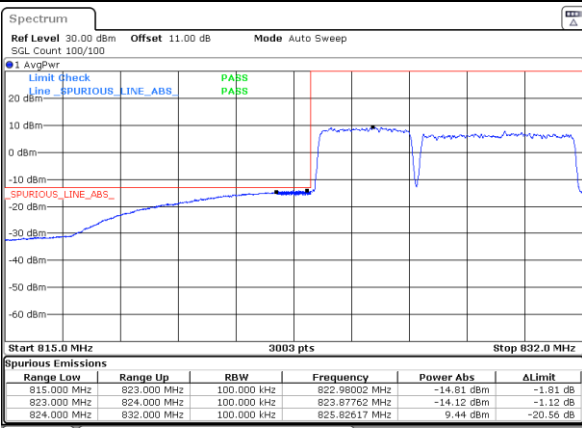


Date: 28.FEB.2024 17:13:54

Date: 28.FEB.2024 16:53:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.FEB.2024 17:01:59

Date: 28.FEB.2024 14:48:13

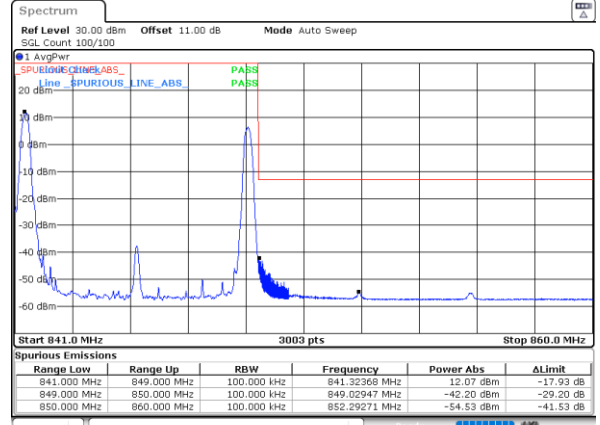
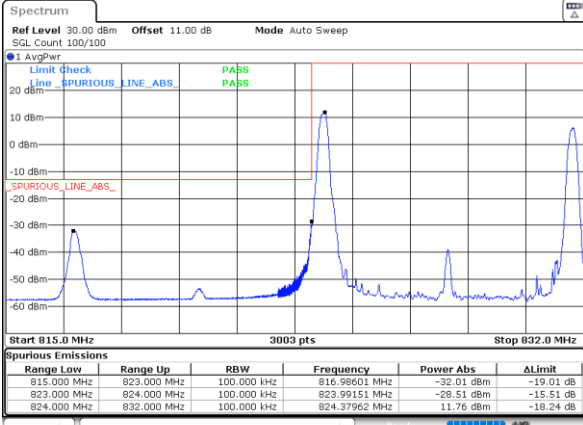


LTE Band 5B / 5MHz+3MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB14

Highest Band Edge / 1RB0 and 1RB14

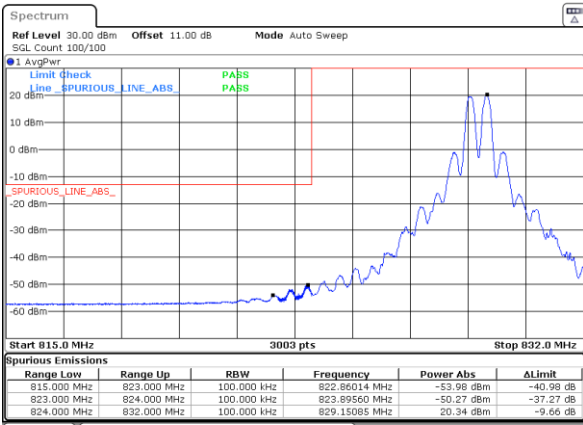


Date: 28.FEB.2024 17:55:23

Date: 28.FEB.2024 17:34:58

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

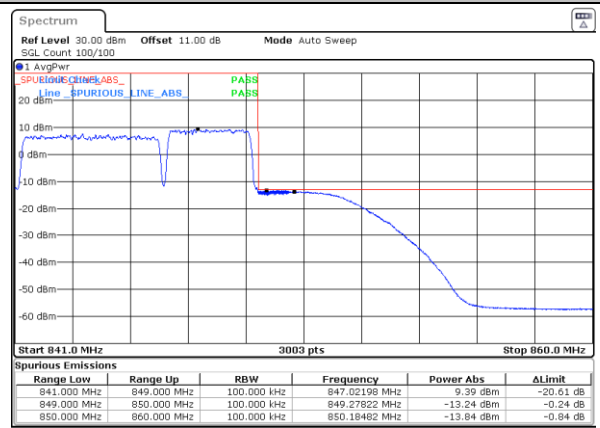
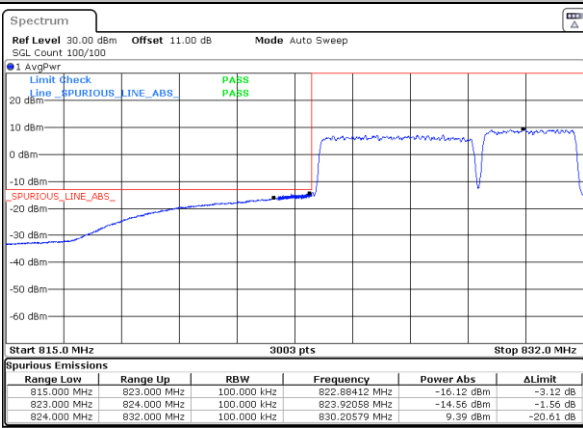


Date: 28.FEB.2024 18:01:21

Date: 28.FEB.2024 17:40:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.FEB.2024 17:49:26

Date: 28.FEB.2024 17:29:00

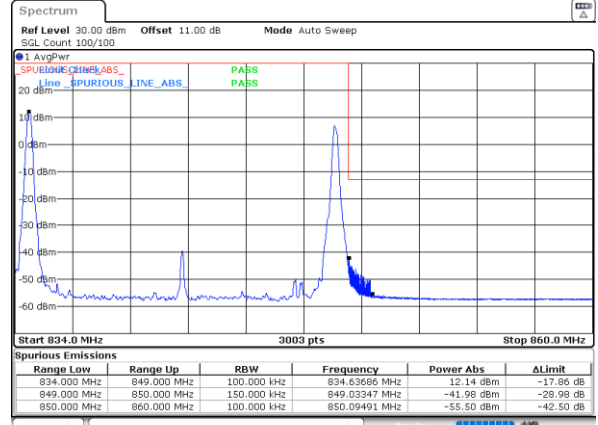
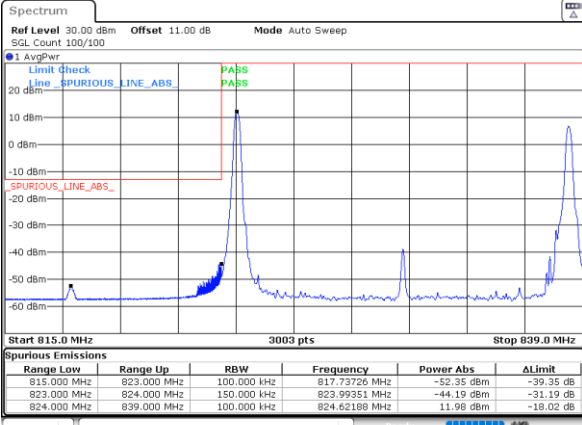


LTE Band 5B / 5MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

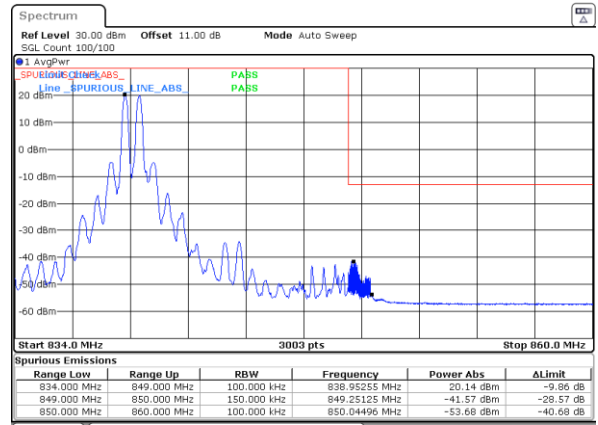
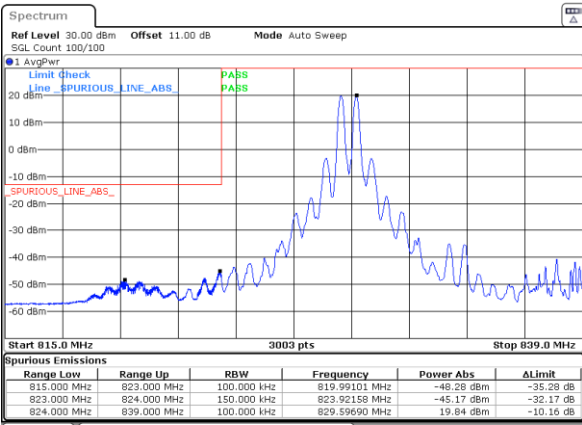


Date: 29.FEB.2024 18:43:13

Date: 28.FEB.2024 18:22:51

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

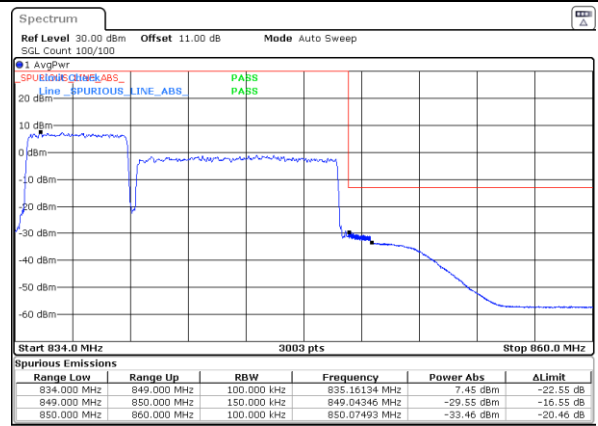
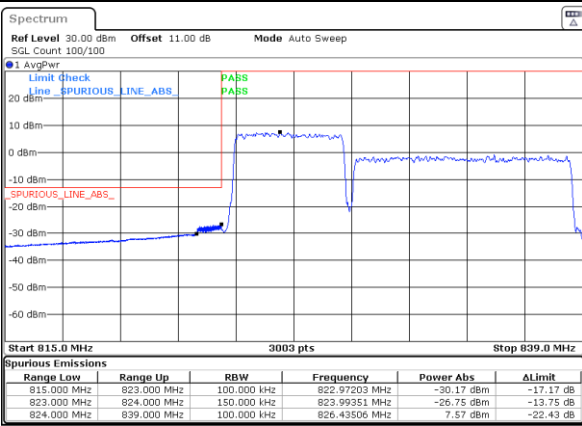


Date: 29.FEB.2024 18:49:11

Date: 28.FEB.2024 18:28:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.FEB.2024 18:37:16

Date: 28.FEB.2024 18:16:54

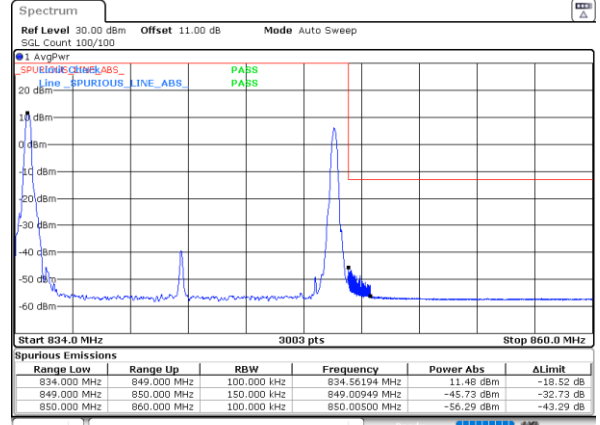
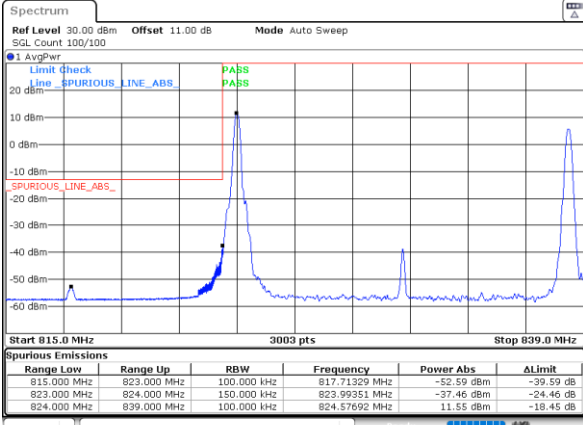


LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24

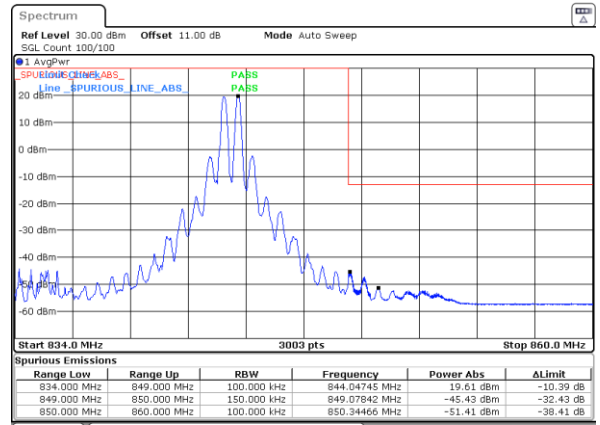
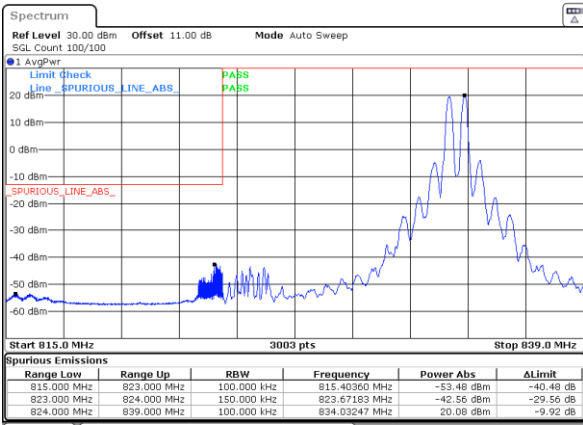


Date: 28.FEB.2024 19:30:35

Date: 28.FEB.2024 19:10:12

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

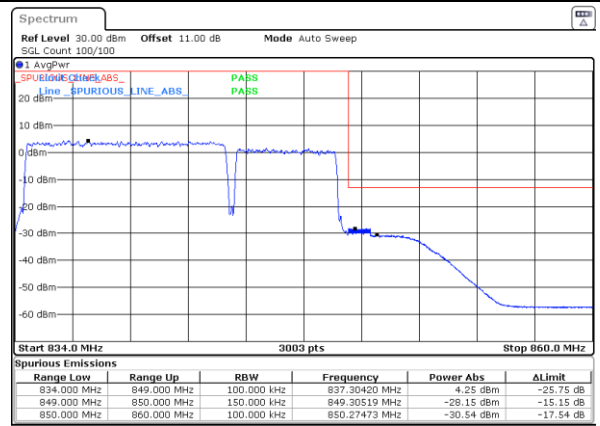
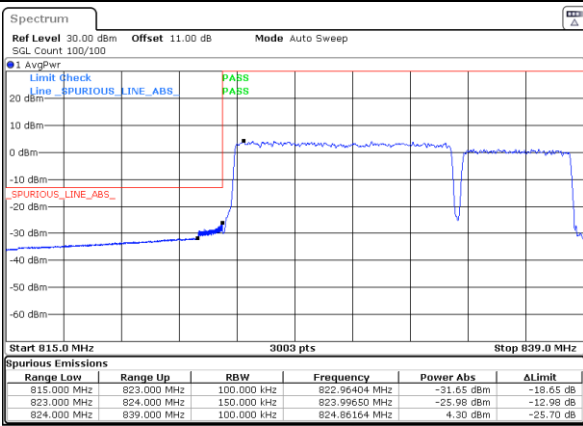


Date: 28.FEB.2024 19:36:32

Date: 28.FEB.2024 19:16:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.FEB.2024 19:24:37

Date: 28.FEB.2024 19:04:15

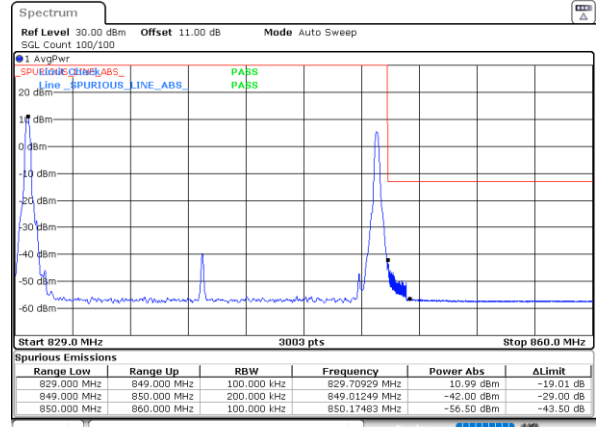
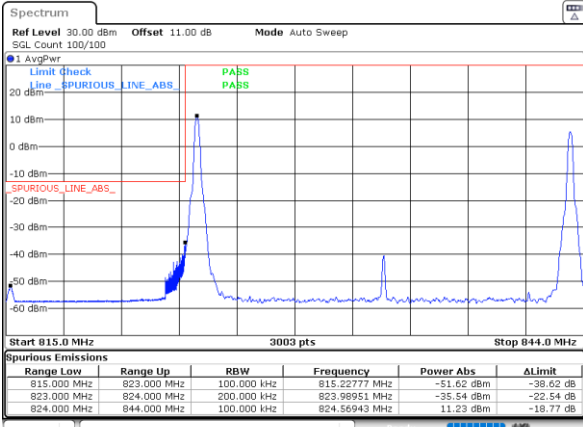


LTE Band 5B / 10MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

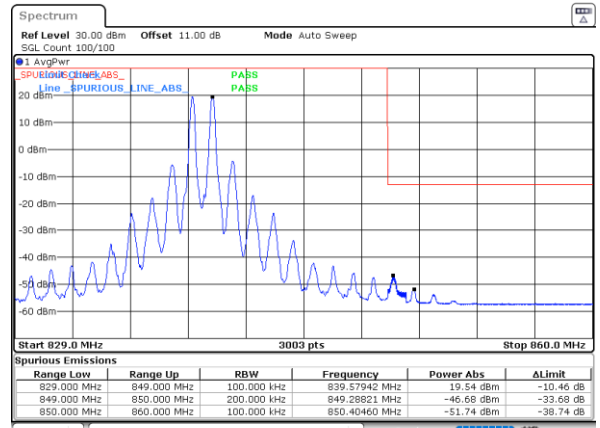
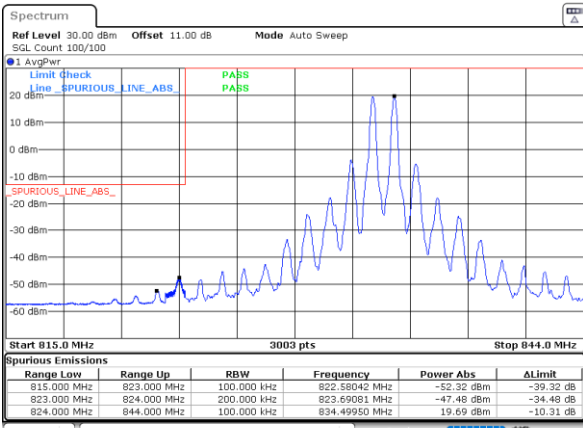


Date: 28.FEB.2024 20:18:22

Date: 28.FEB.2024 19:58:44

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

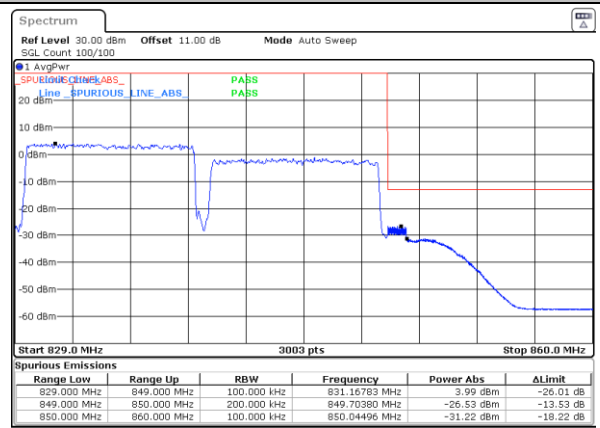
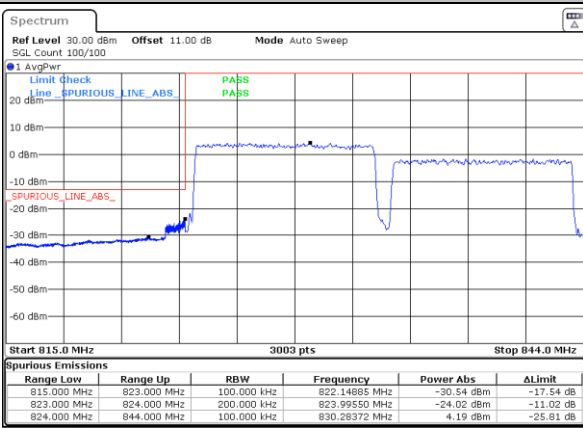


Date: 28.FEB.2024 20:24:10

Date: 28.FEB.2024 20:04:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.FEB.2024 20:12:33

Date: 28.FEB.2024 19:52:55

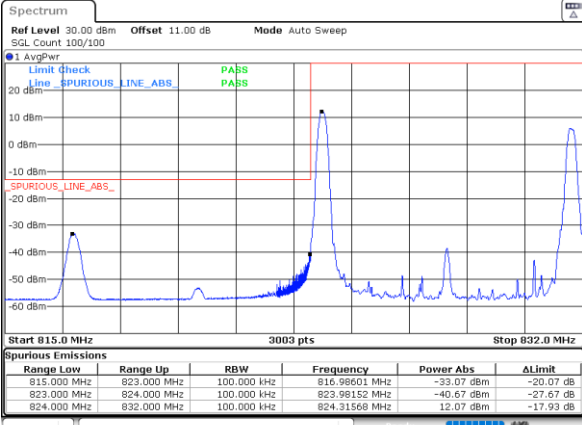


LTE Band 5B / 3MHz+5MHz

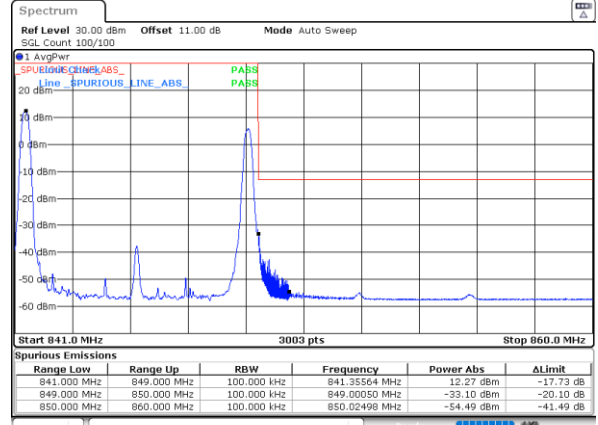
16QAM

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24



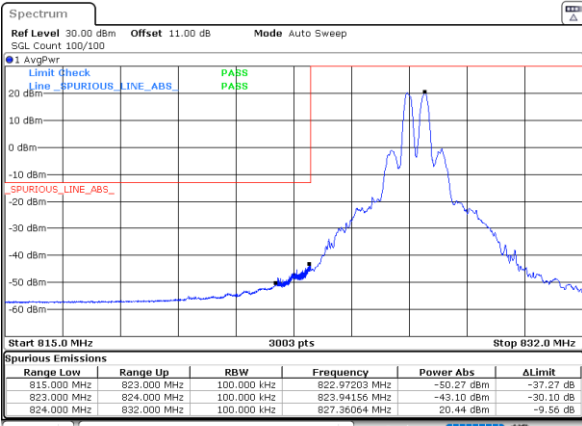
Date: 28.FEB.2024 17:09:26



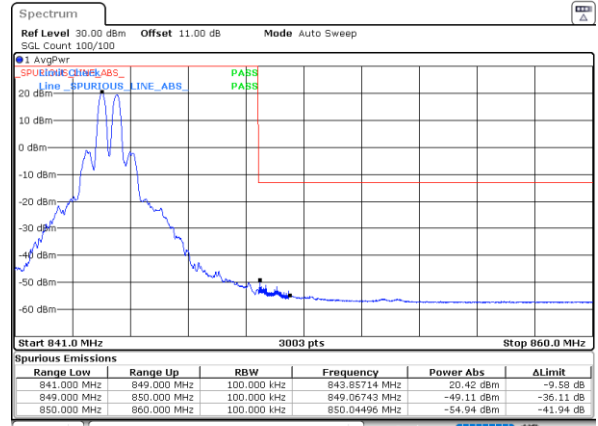
Date: 28.FEB.2024 14:55:39

Lowest Band Edge / 1RB14 and 1RB0

Highest Band Edge / 1RB14 and 1RB0



Date: 28.FEB.2024 17:15:23



Date: 28.FEB.2024 16:54:35

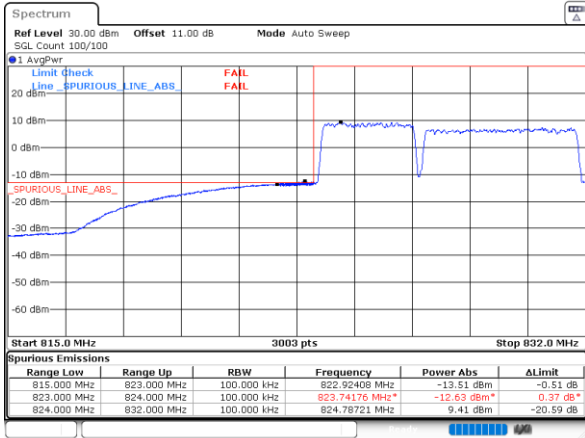




LTE Band 5B / 3MHz+5MHz

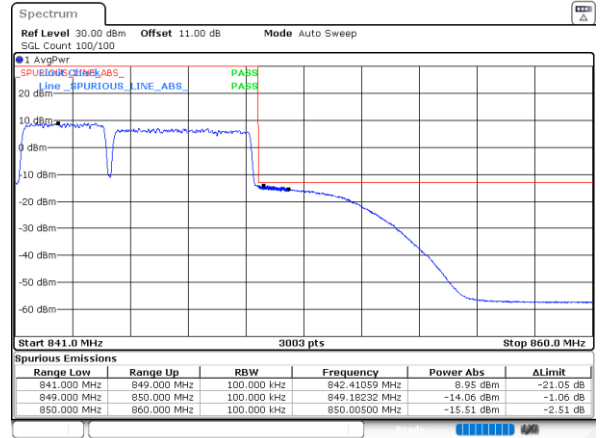
16QAM

Lowest Band Edge / Full RB



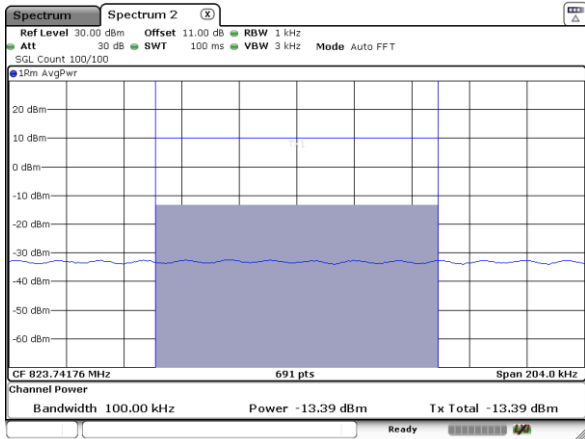
Date: 28.FEB.2024 17:03:28

Highest Band Edge / Full RB



Date: 28.FEB.2024 14:49:42

Verify Channel Power



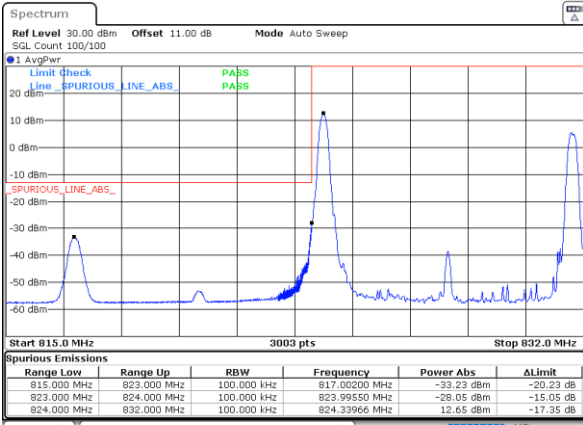
Date: 28.FEB.2024 21:04:20



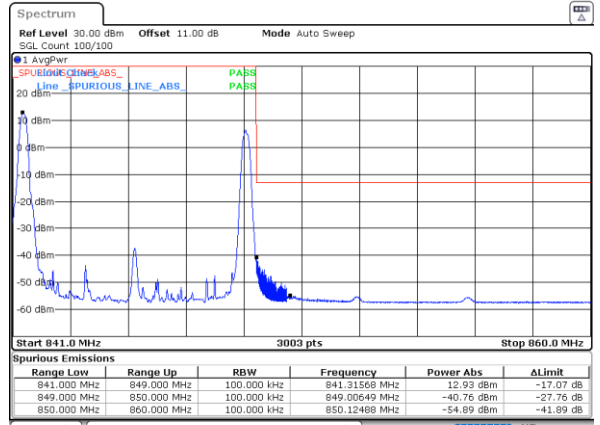
LTE Band 5B / 5MHz+3MHz

16QAM

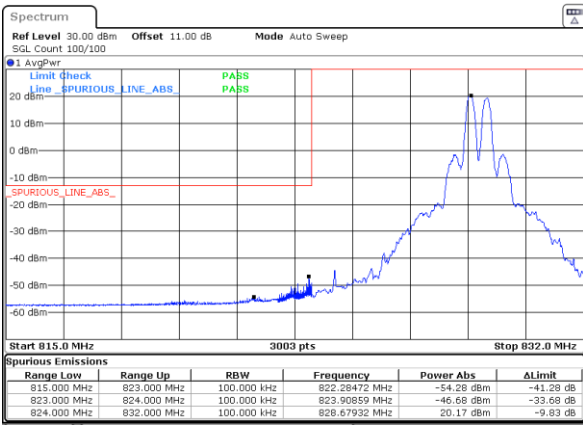
Lowest Band Edge / 1RB0 and 1RB14



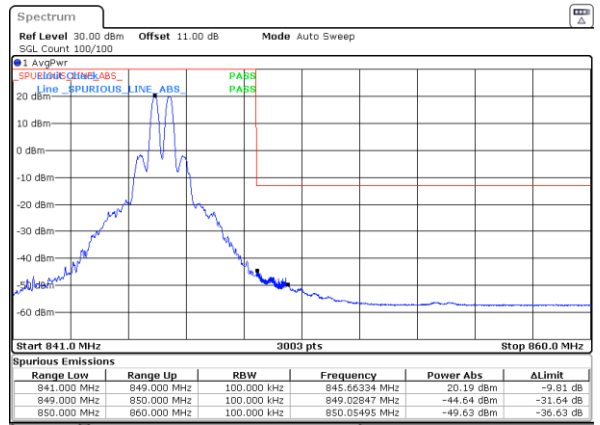
Highest Band Edge / 1RB0 and 1RB14



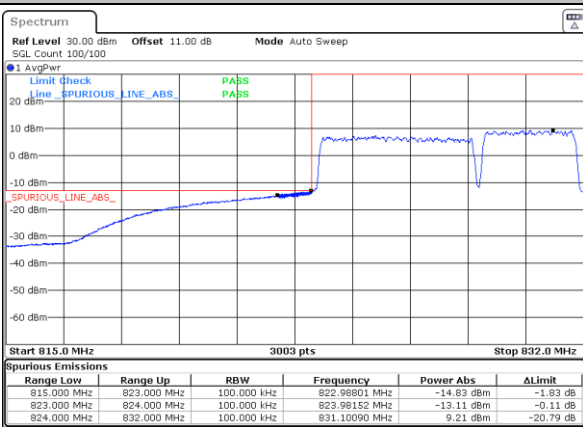
Lowest Band Edge / 1RB24 and 1RB0



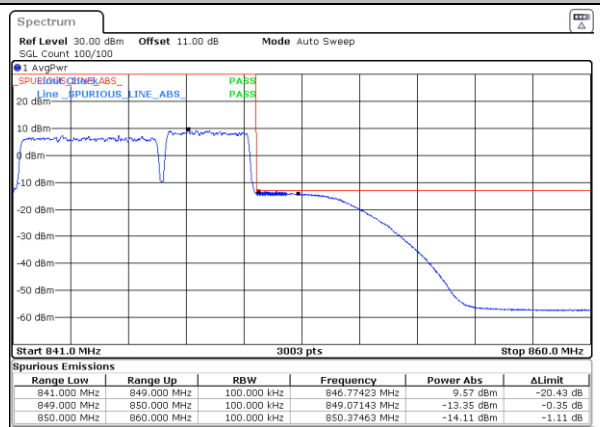
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

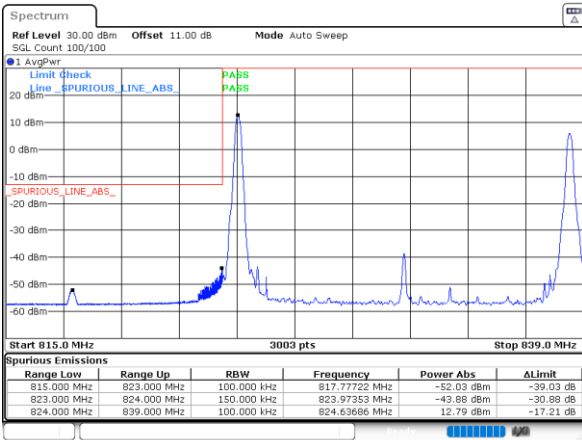


LTE Band 5B / 5MHz+10MHz



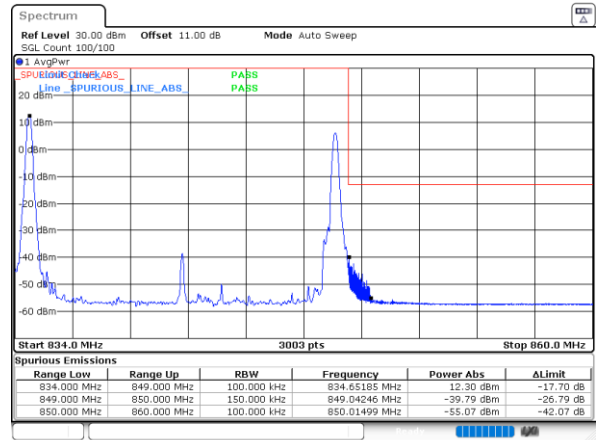
16QAM

Lowest Band Edge / 1RB0 and 1RB49



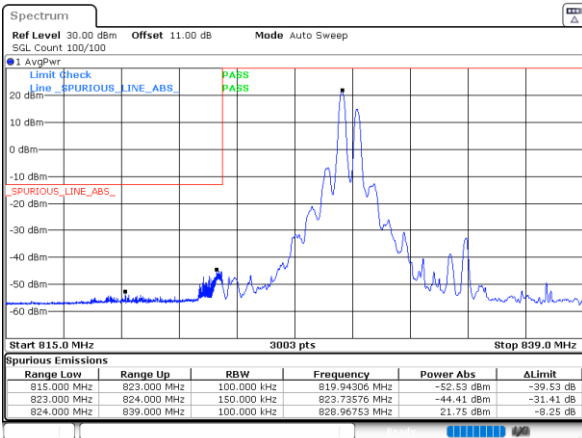
Date: 28.FEB.2024 18:44:43

Highest Band Edge / 1RB0 and 1RB49



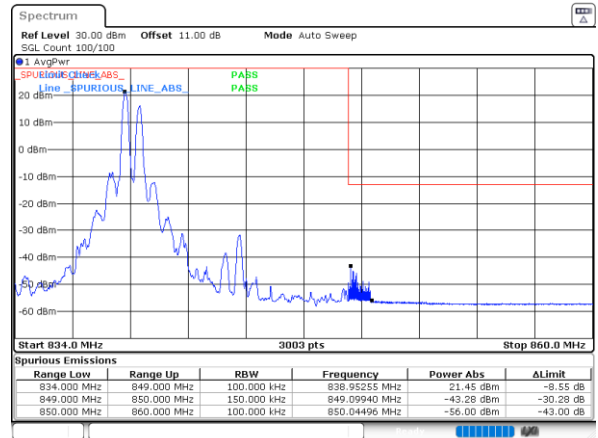
Date: 28.FEB.2024 18:24:20

Lowest Band Edge / 1RB24 and 1RB0



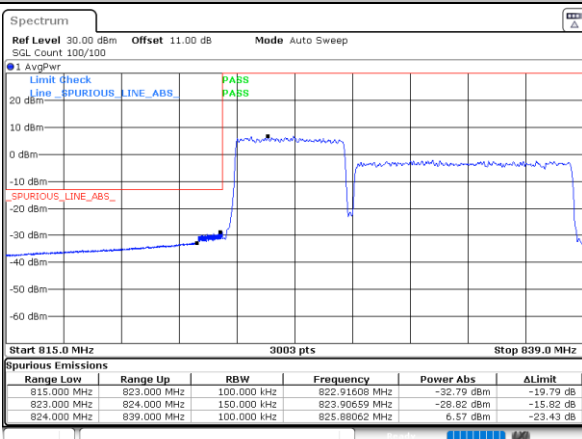
Date: 28.FEB.2024 18:50:40

Highest Band Edge / 1RB24 and 1RB0



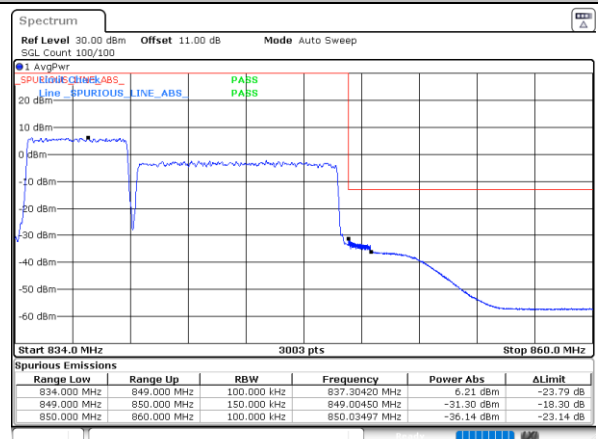
Date: 28.FEB.2024 18:30:17

Lowest Band Edge / Full RB



Date: 28.FEB.2024 18:38:45

Highest Band Edge / Full RB



Date: 28.FEB.2024 18:18:23

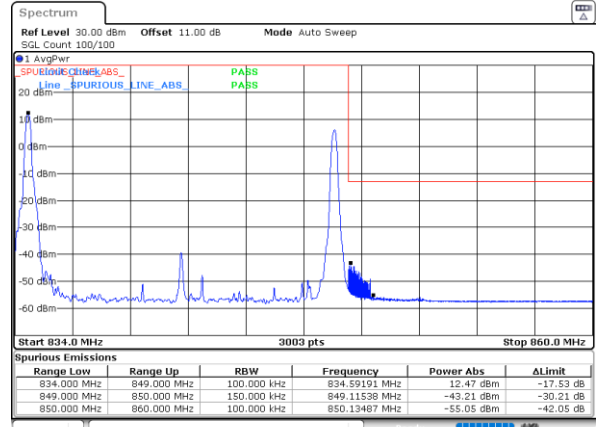
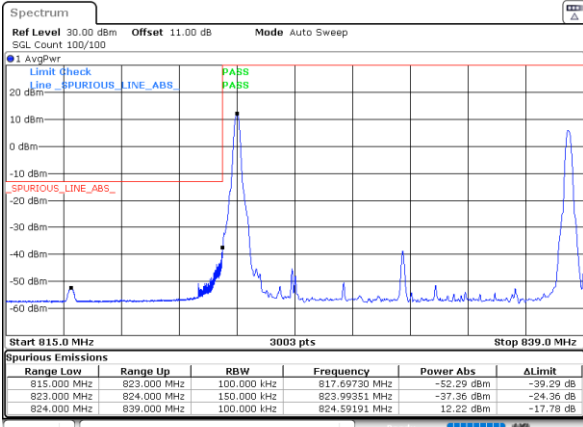


LTE Band 5B / 10MHz+5MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24

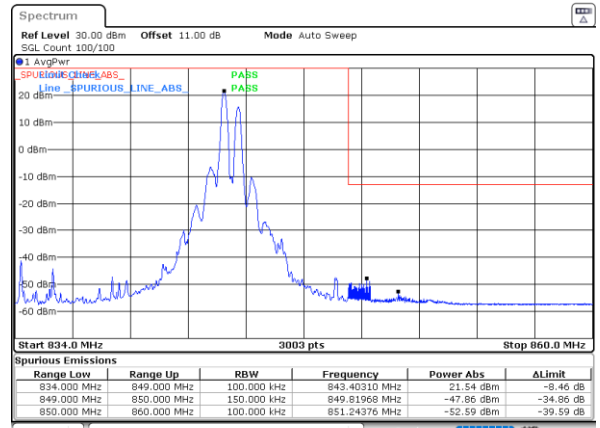
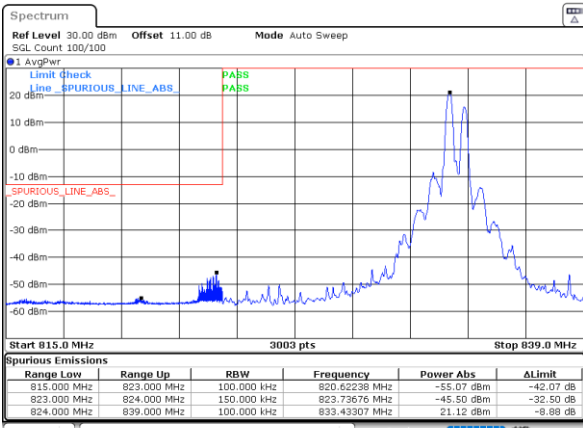


Date: 28.FEB.2024 19:32:04

Date: 28.FEB.2024 19:11:41

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

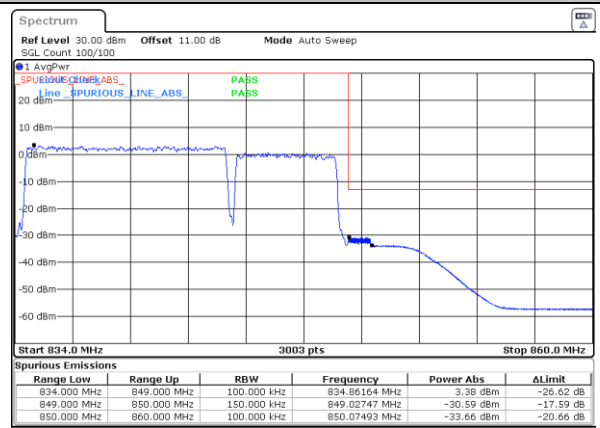
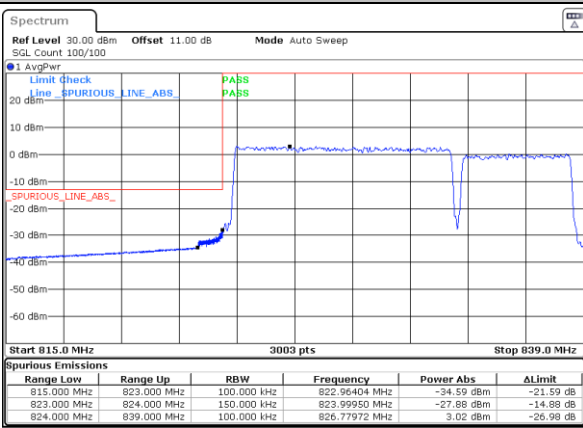


Date: 28.FEB.2024 19:38:02

Date: 28.FEB.2024 19:17:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.FEB.2024 19:26:06

Date: 28.FEB.2024 19:05:44