



LTE Band 4

Middle Channel / 1.4MHz / QPSK



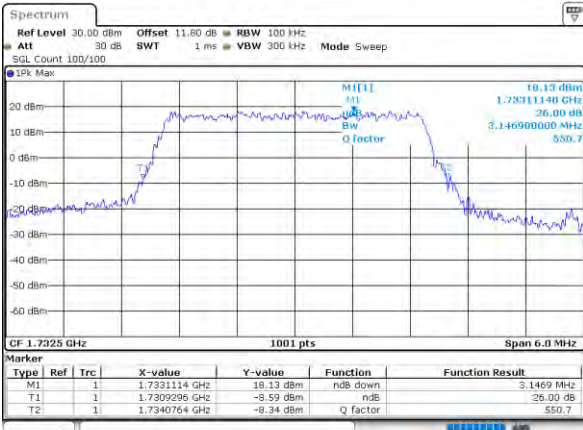
Date: 12\_JAN\_2024 09:31:42

Middle Channel / 1.4MHz / 16QAM



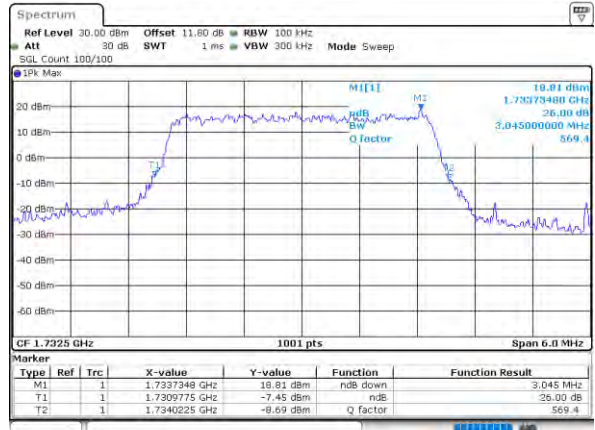
Date: 12\_JAN\_2024 09:32:10

Middle Channel / 3MHz / QPSK



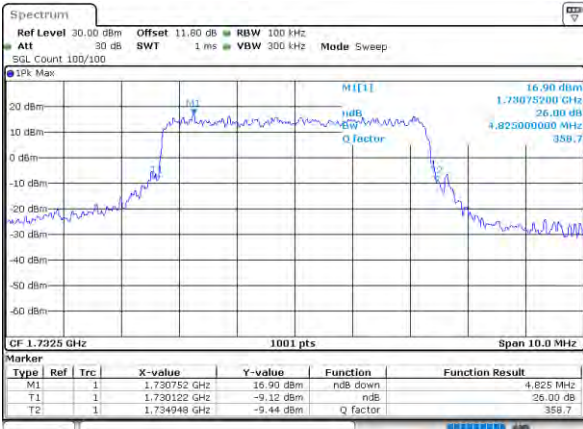
Date: 12\_JAN\_2024 09:33:52

Middle Channel / 3MHz / 16QAM



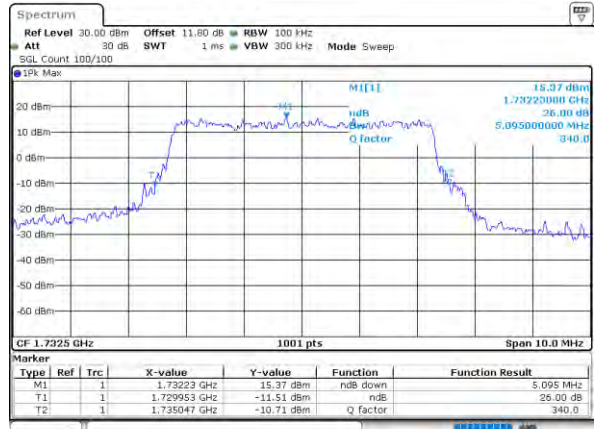
Date: 12\_JAN\_2024 09:34:42

Middle Channel / 5MHz / QPSK



Date: 12\_JAN\_2024 09:39:59

Middle Channel / 5MHz / 16QAM

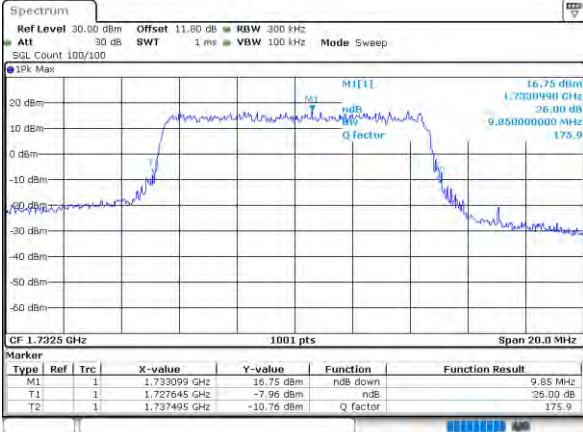


Date: 12\_JAN\_2024 09:40:27



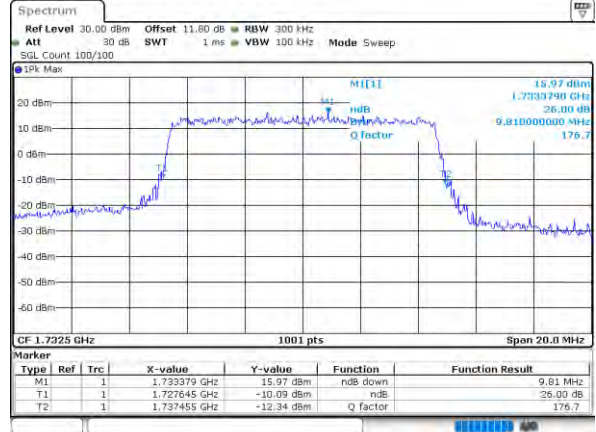
LTE Band 4

Middle Channel / 10MHz / QPSK



Date: 12\_JAN\_2024 01:16:25

Middle Channel / 10MHz / 16QAM



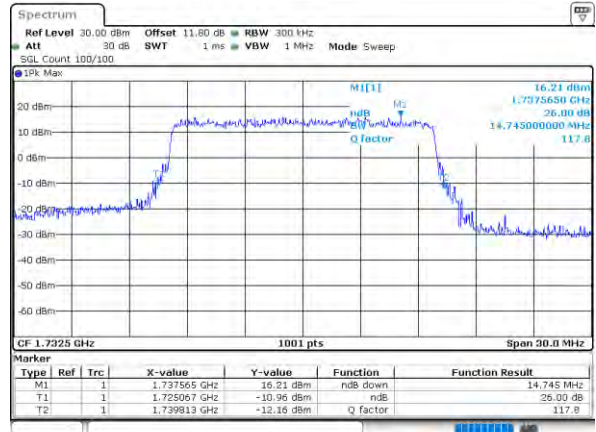
Date: 12\_JAN\_2024 01:16:52

Middle Channel / 15MHz / QPSK



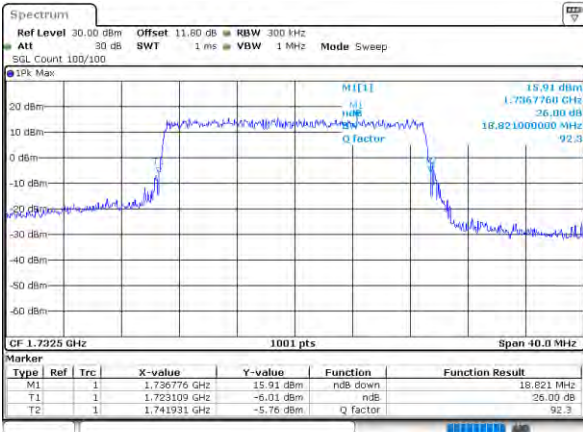
Date: 12\_JAN\_2024 01:19:16

Middle Channel / 15MHz / 16QAM



Date: 12\_JAN\_2024 01:19:14

Middle Channel / 20MHz / QPSK



Date: 12\_JAN\_2024 01:42:48

Middle Channel / 20MHz / 16QAM

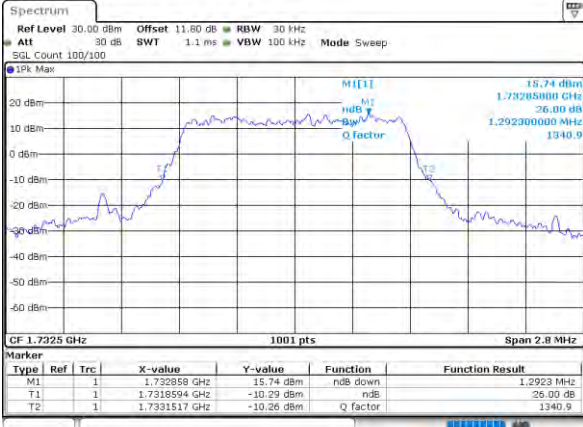


Date: 12\_JAN\_2024 01:43:15

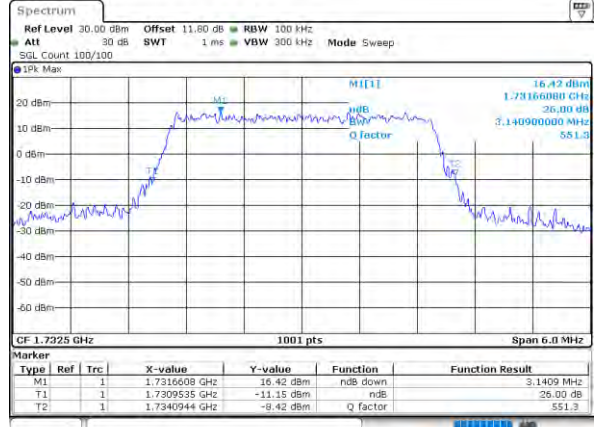


LTE Band 4

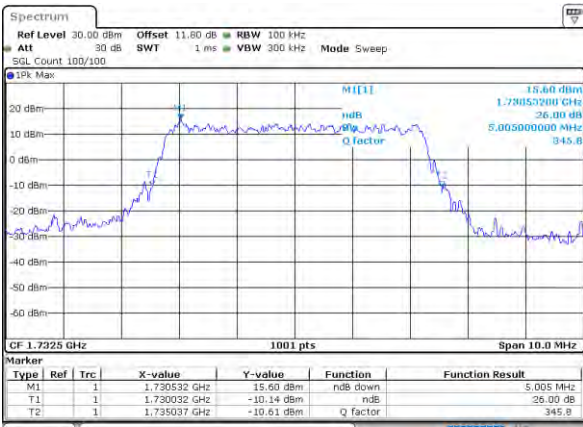
Middle Channel / 1.4MHz / 64QAM



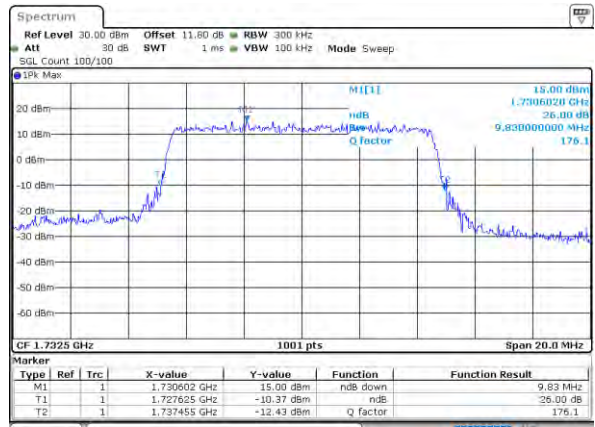
Middle Channel / 3MHz / 64QAM



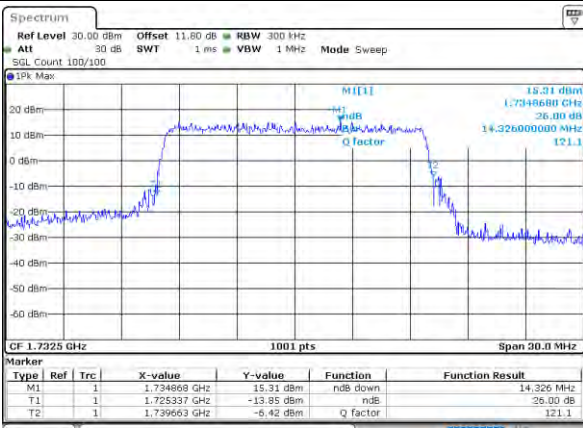
Middle Channel / 5MHz / 64QAM



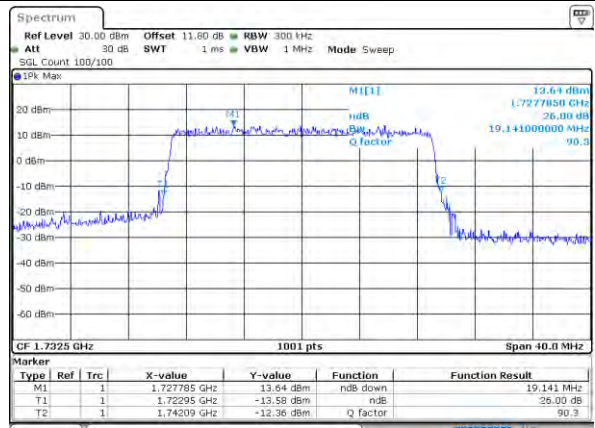
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM





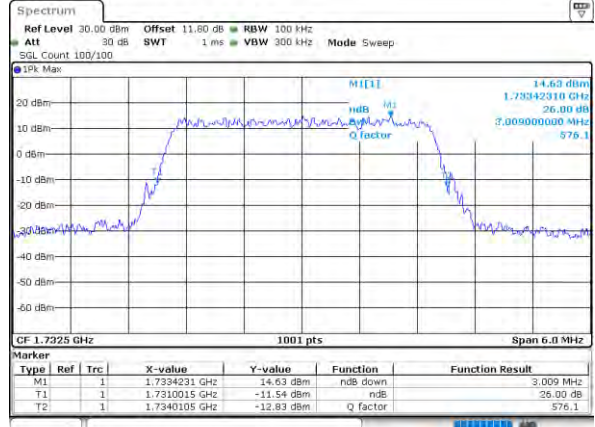
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



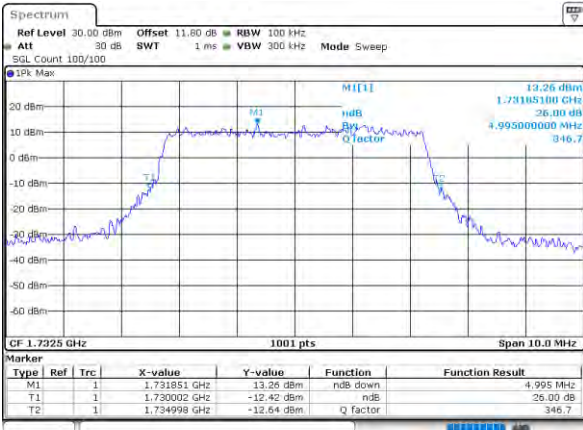
Date: 12\_JAN\_2024 02:44:57

Middle Channel / 3MHz / 256QAM



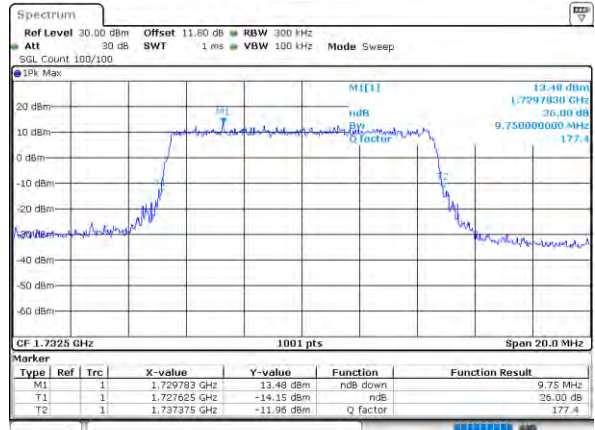
Date: 12\_JAN\_2024 02:49:06

Middle Channel / 5MHz / 256QAM



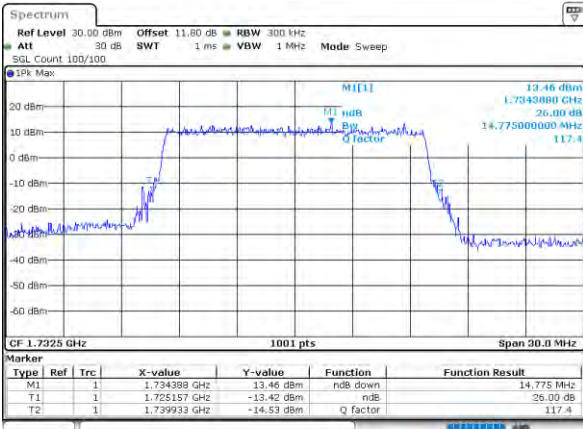
Date: 12\_JAN\_2024 02:52:06

Middle Channel / 10MHz / 256QAM



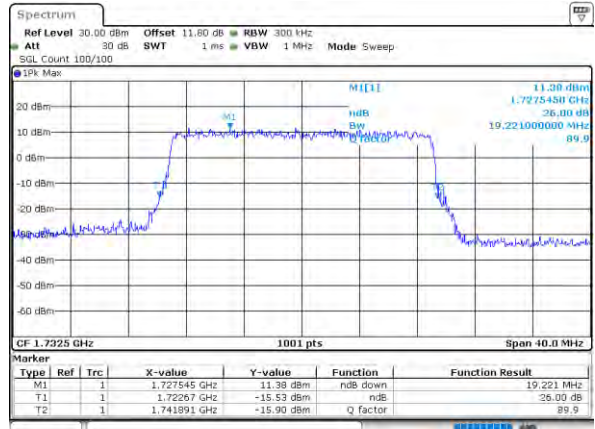
Date: 12\_JAN\_2024 02:55:06

Middle Channel / 15MHz / 256QAM



Date: 12\_JAN\_2024 02:58:07

Middle Channel / 20MHz / 256QAM



Date: 12\_JAN\_2024 03:01:07



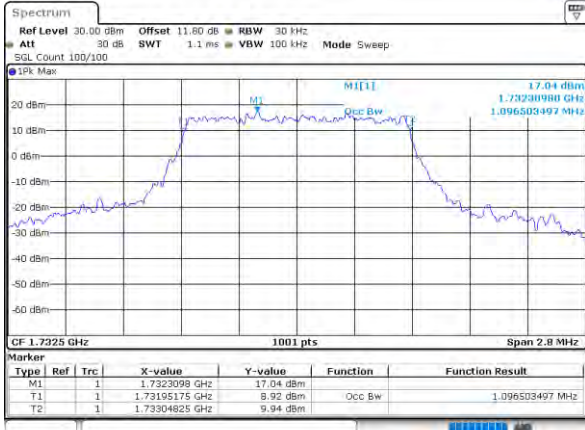
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.73	2.73	4.50	4.49	9.11	9.09	13.48	13.45	17.94	17.94
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	1.09	2.75	2.71	4.50	4.50	9.09	9.11	13.48	13.48	17.94	17.94



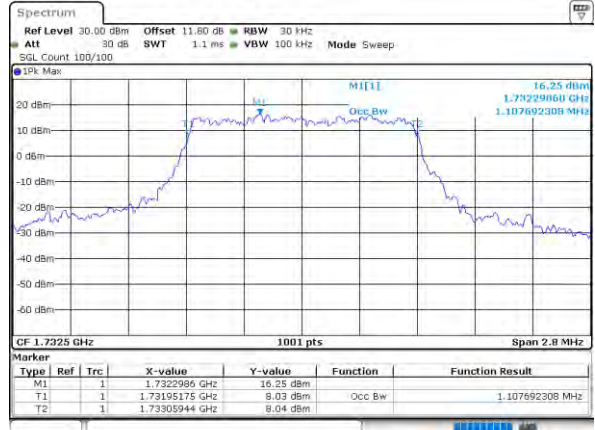
LTE Band 4

Middle Channel / 1.4MHz / QPSK



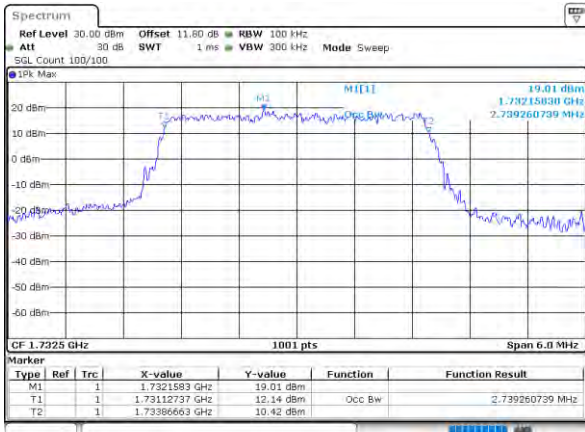
Date: 12.JAN.2024 00:38:46

Middle Channel / 1.4MHz / 16QAM



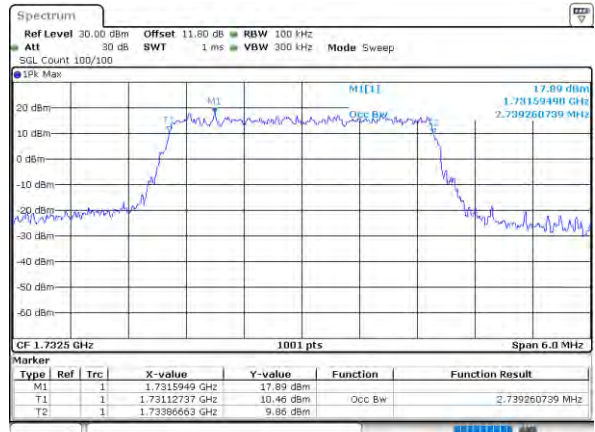
Date: 12.JAN.2024 00:38:14

Middle Channel / 3MHz / QPSK



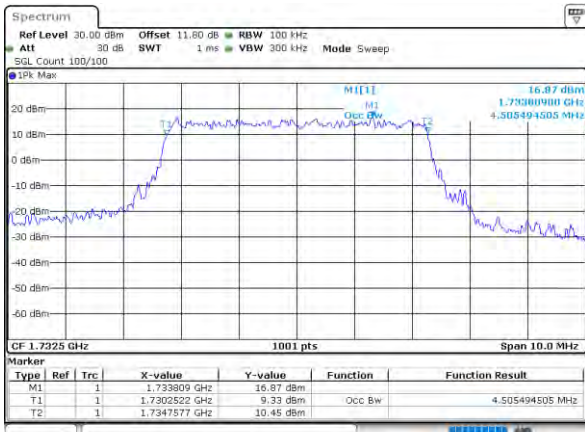
Date: 12.JAN.2024 00:49:07

Middle Channel / 3MHz / 16QAM



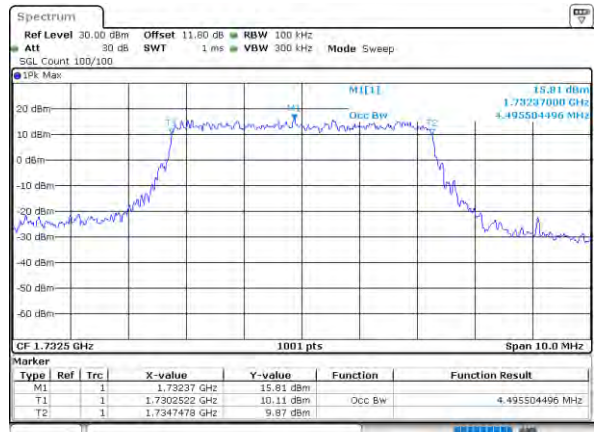
Date: 12.JAN.2024 00:49:34

Middle Channel / 5MHz / QPSK



Date: 12.JAN.2024 01:09:03

Middle Channel / 5MHz / 16QAM

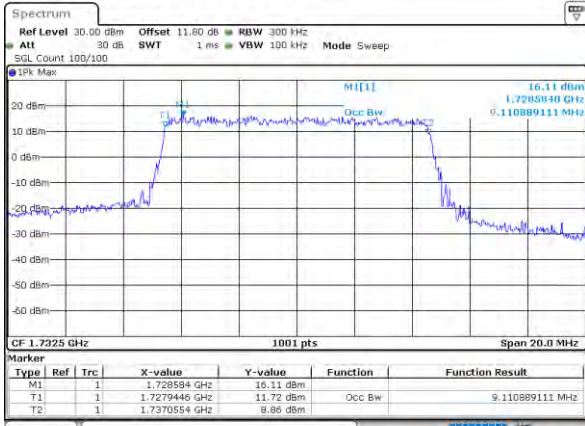


Date: 12.JAN.2024 01:09:31



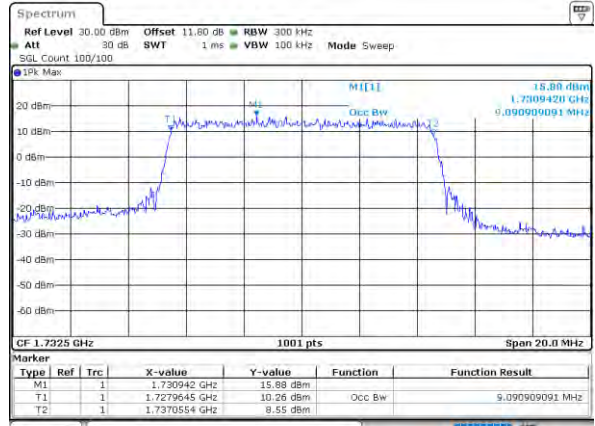
LTE Band 4

Middle Channel / 10MHz / QPSK



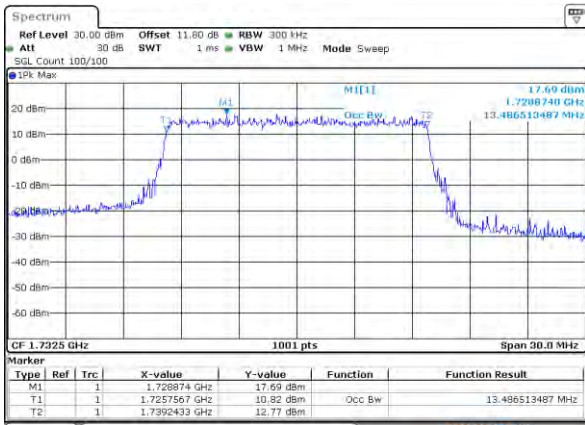
Date: 12.JAN.2024 01:15:29

Middle Channel / 10MHz / 16QAM



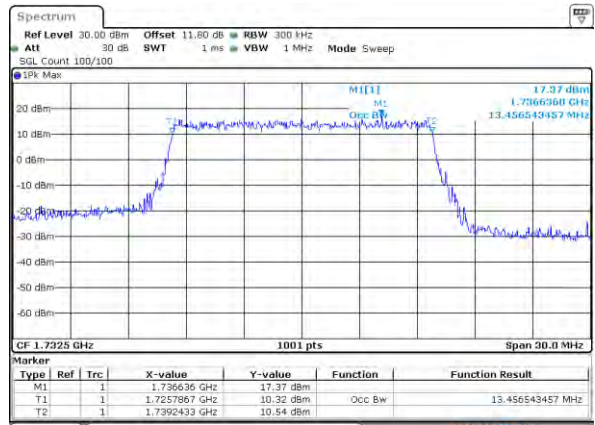
Date: 12.JAN.2024 01:15:57

Middle Channel / 15MHz / QPSK



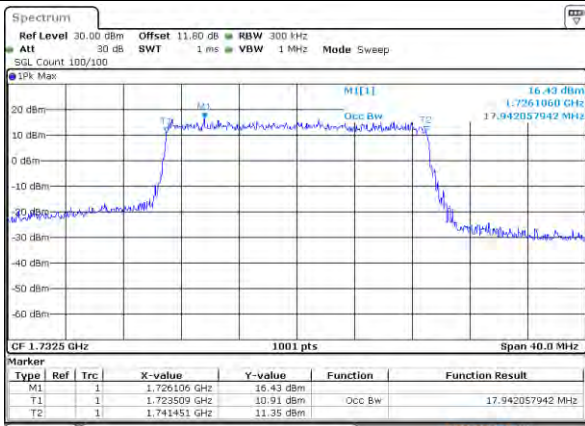
Date: 12.JAN.2024 01:28:40

Middle Channel / 15MHz / 16QAM



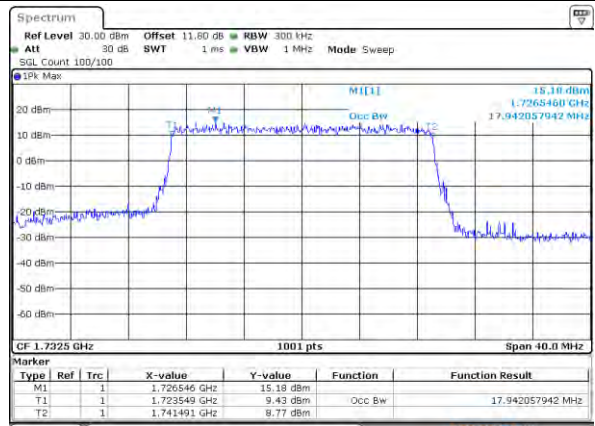
Date: 12.JAN.2024 01:29:08

Middle Channel / 20MHz / QPSK



Date: 12.JAN.2024 01:41:52

Middle Channel / 20MHz / 16QAM

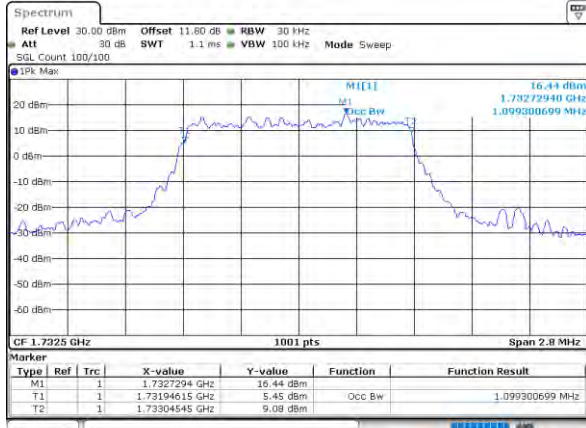


Date: 12.JAN.2024 01:42:20



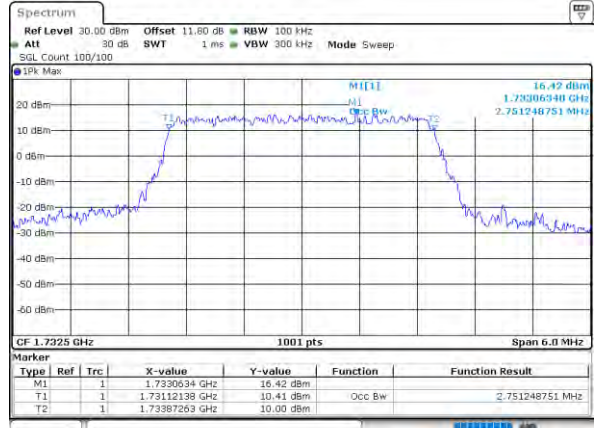
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



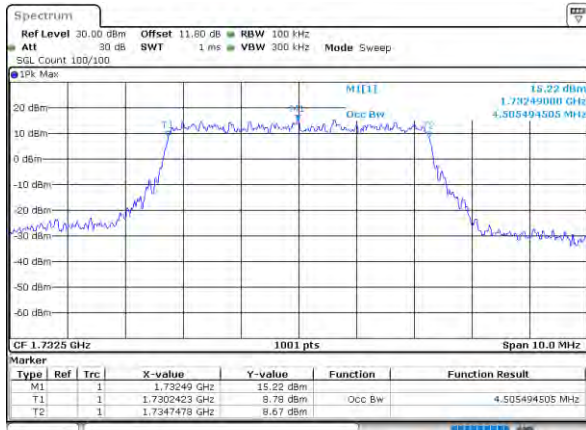
Date: 12.JAN.2024 00:41:56

Middle Channel / 3MHz / 64QAM



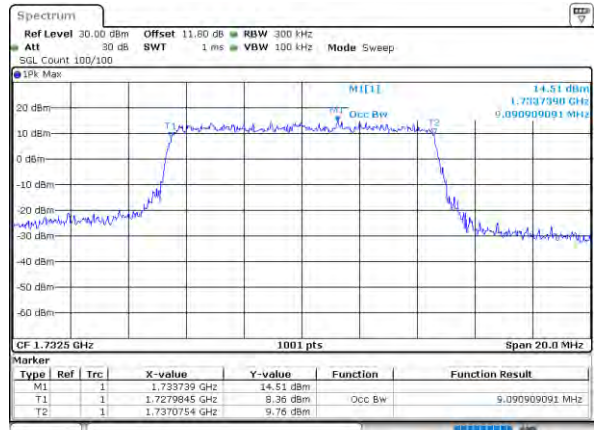
Date: 12.JAN.2024 00:58:10

Middle Channel / 5MHz / 64QAM



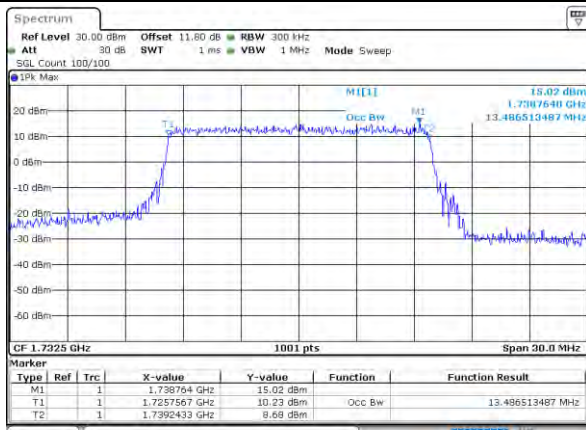
Date: 12.JAN.2024 01:10:10

Middle Channel / 10MHz / 64QAM



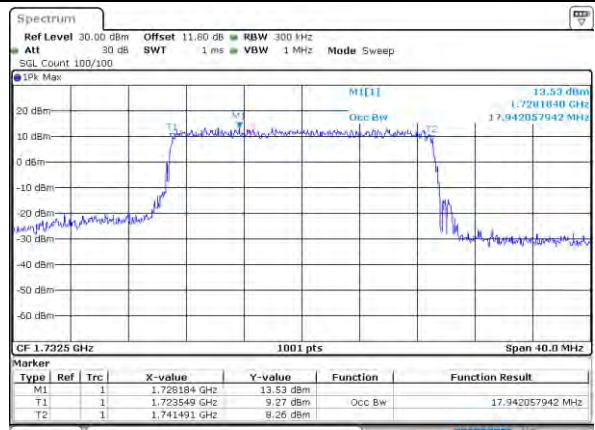
Date: 12.JAN.2024 01:20:42

Middle Channel / 15MHz / 64QAM



Date: 12.JAN.2024 01:37:44

Middle Channel / 20MHz / 64QAM



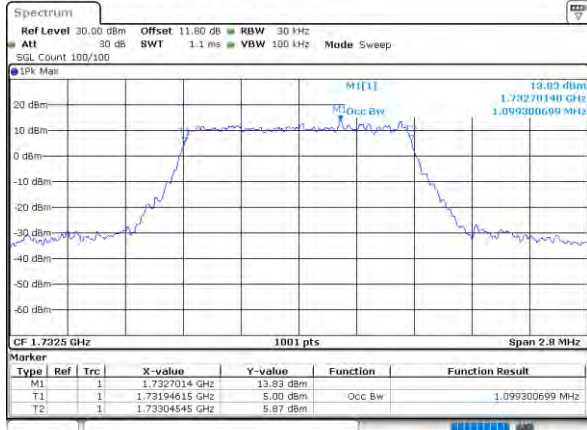
Date: 12.JAN.2024 01:50:55



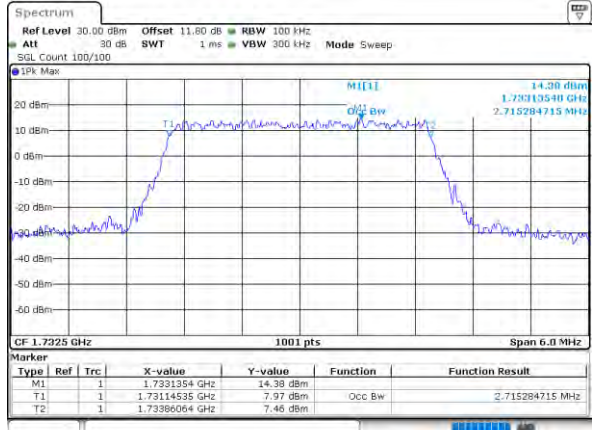


LTE Band 4

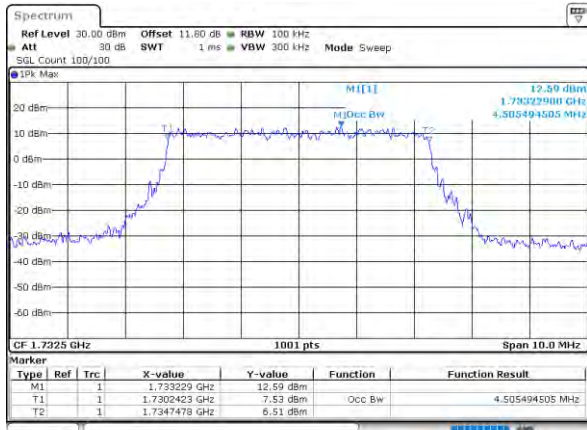
Middle Channel / 1.4MHz / 256QAM



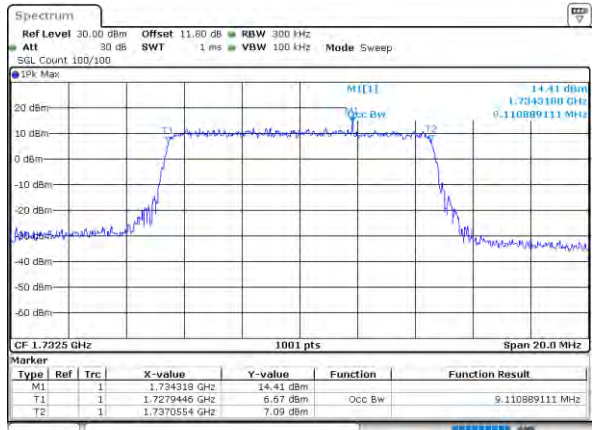
Middle Channel / 3MHz / 256QAM



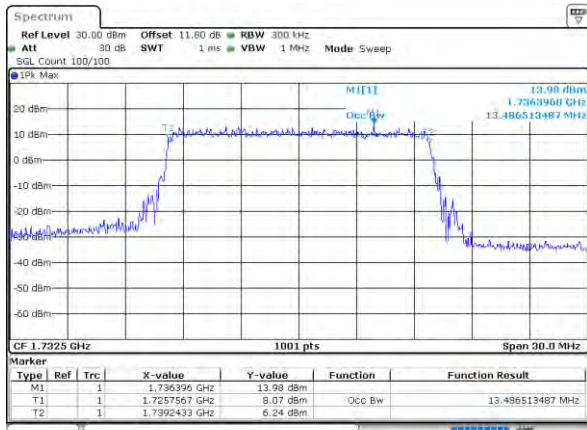
Middle Channel / 5MHz / 256QAM



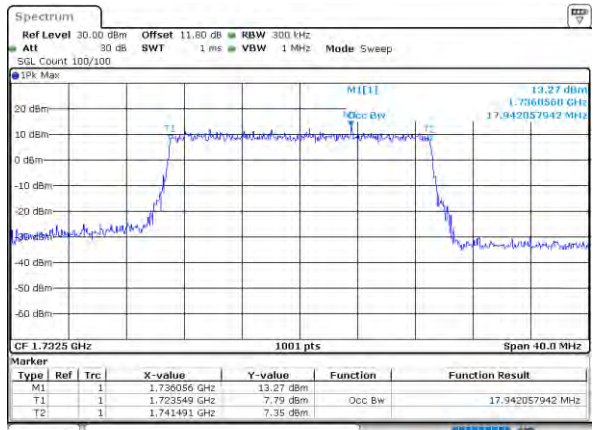
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

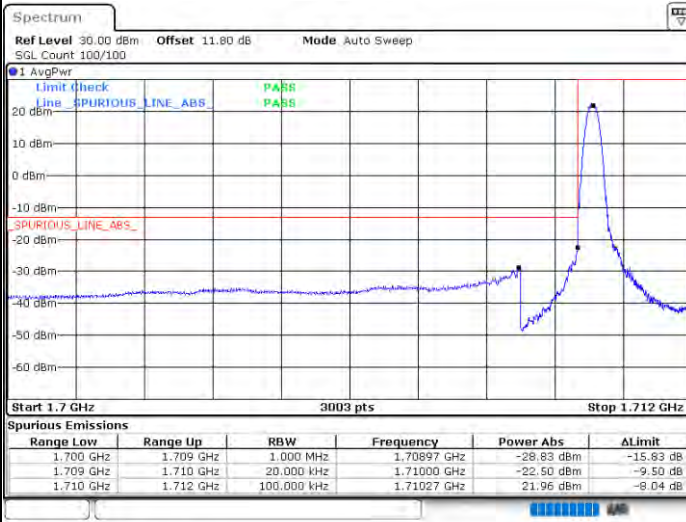




# Conducted Band Edge

## LTE Band 4 / 1.4MHz / QPSK

### Lowest Band Edge / 1RB



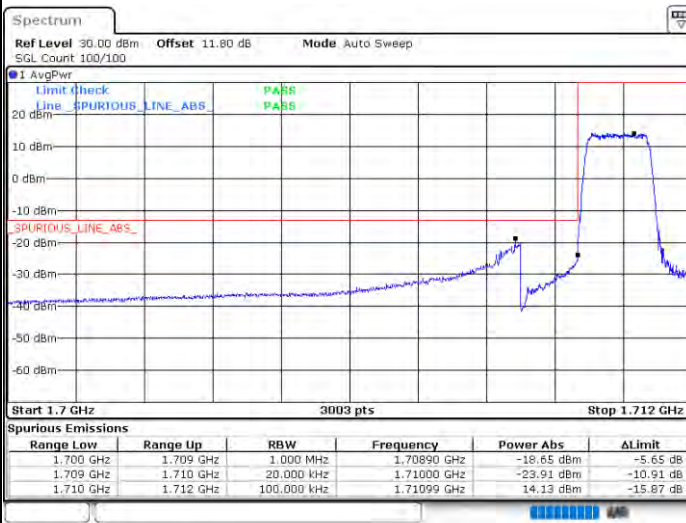
Date: 12.JAN.2024 00:23:38

### Highest Band Edge / 1RB



Date: 12.JAN.2024 00:34:33

### Lowest Band Edge / Full RB



Date: 12.JAN.2024 00:27:53

### Highest Band Edge / Full RB



Date: 12.JAN.2024 00:36:46



LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



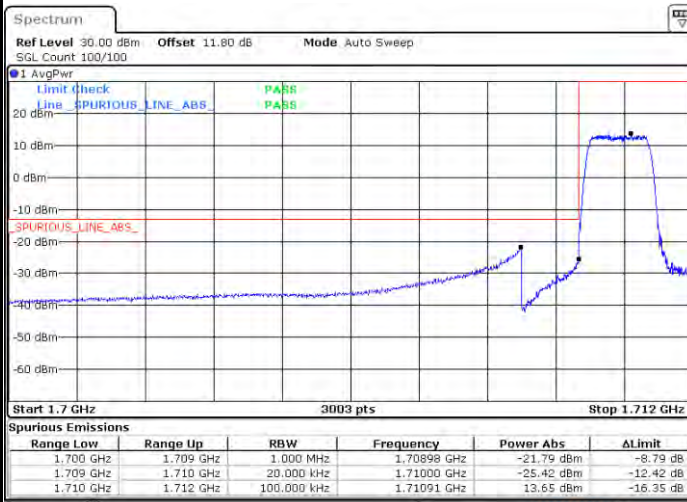
Date: 12.JAN.2024 00:26:45

Highest Band Edge / 1 RB



Date: 12.JAN.2024 00:35:40

Lowest Band Edge / Full RB



Date: 12.JAN.2024 00:29:01

Highest Band Edge / Full RB



Date: 12.JAN.2024 00:37:55



LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 12.JAN.2024 00:40:20

Highest Band Edge / 1 RB



Date: 12.JAN.2024 00:43:16

Lowest Band Edge / Full RB



Date: 12.JAN.2024 00:43:28

Highest Band Edge / Full RB

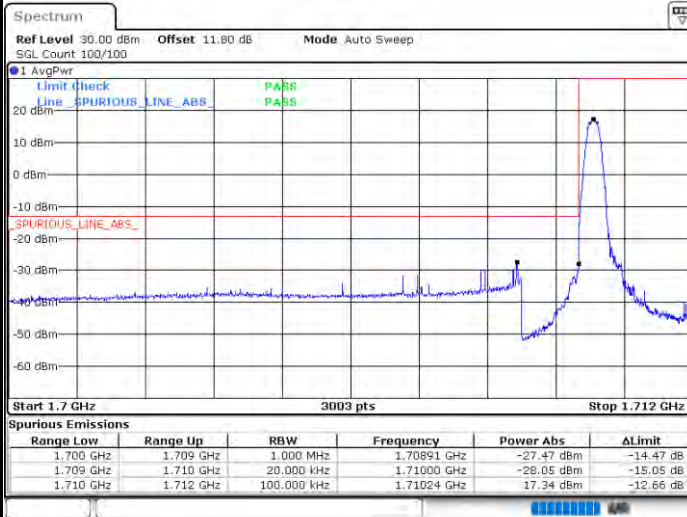


Date: 12.JAN.2024 00:44:24



LTE Band 4 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



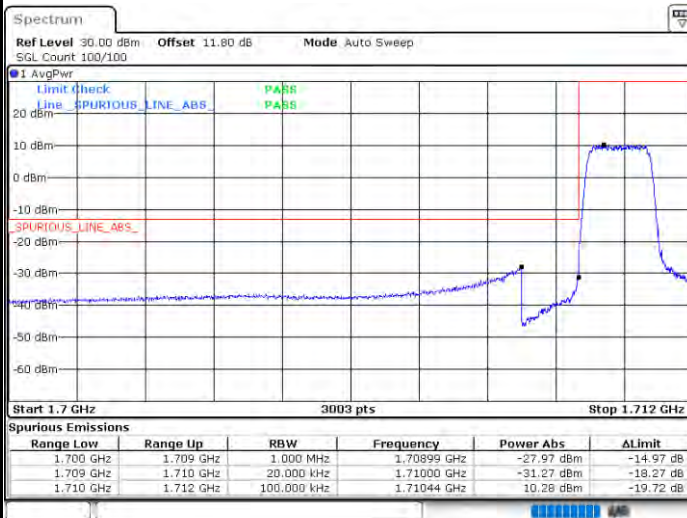
Date: 12.JAN.2024 01:56:57

Highest Band Edge / 1 RB



Date: 12.JAN.2024 02:14:04

Lowest Band Edge / Full RB



Date: 12.JAN.2024 02:40:16

Highest Band Edge / Full RB

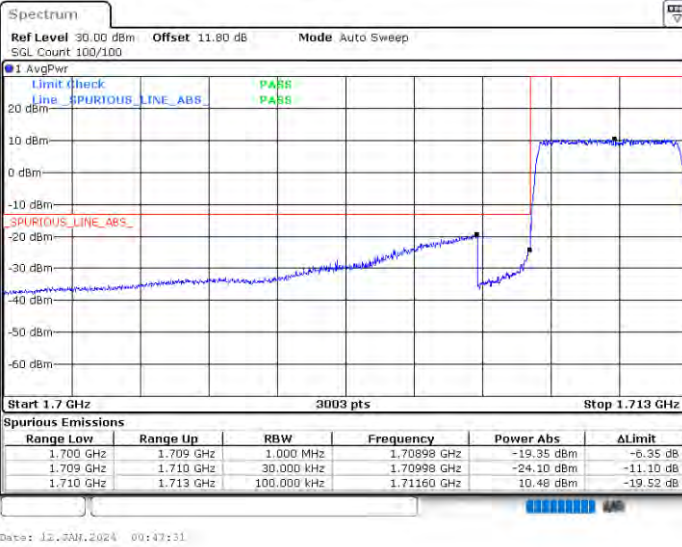


Date: 12.JAN.2024 02:47:12

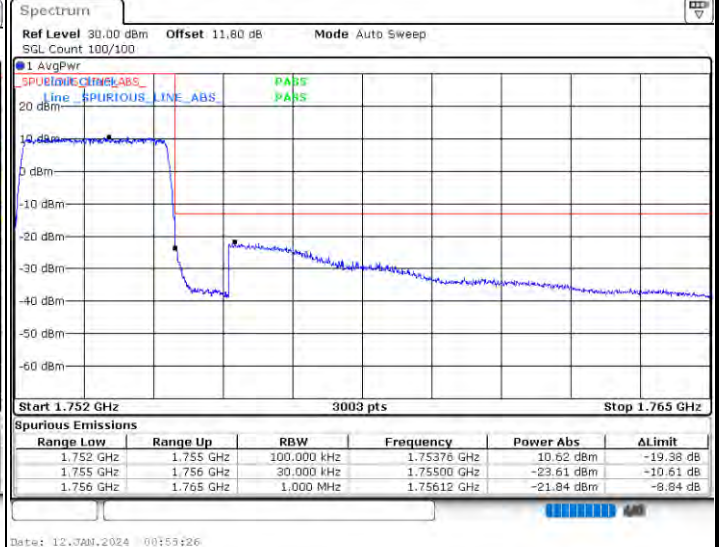


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

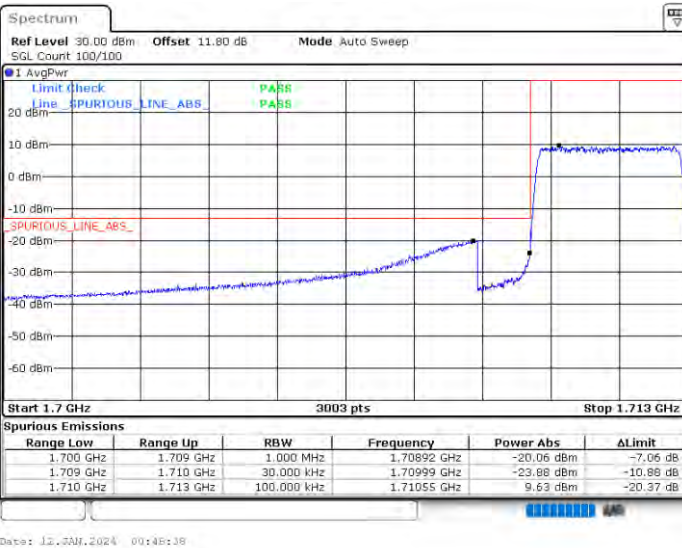


Highest Band Edge / Full RB

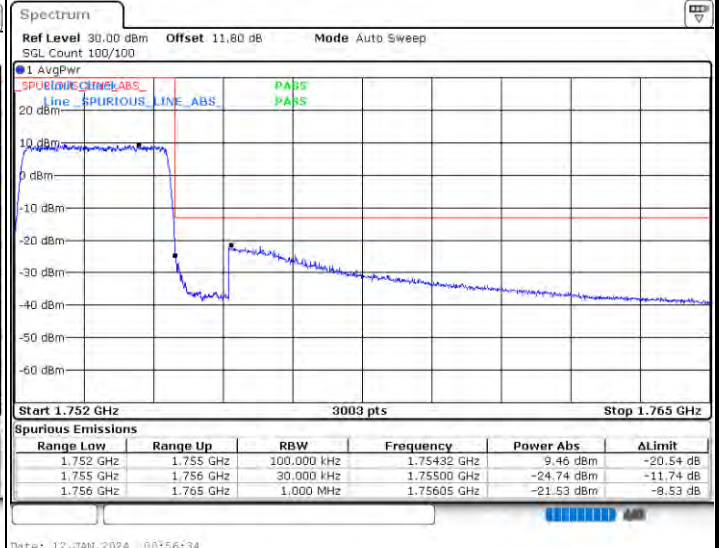


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 00:57:41

Highest Band Edge / Full RB



Date: 12.JAN.2024 00:59:25

LTE Band 4 / 3MHz / 256QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 02:48:24

Highest Band Edge / Full RB

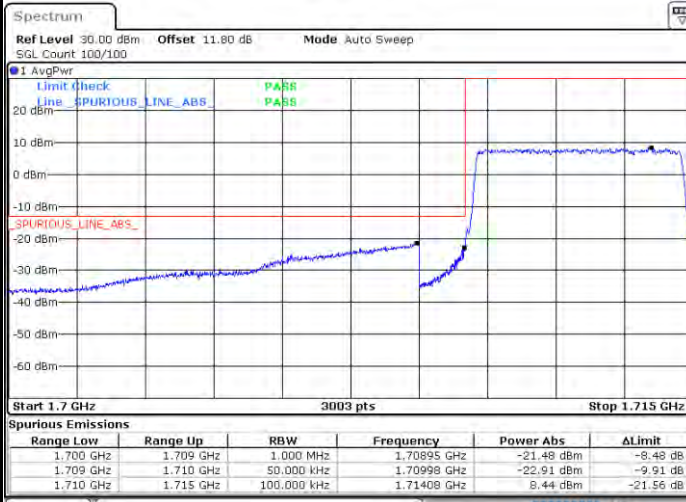


Date: 12.JAN.2024 02:50:12



LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:07:27

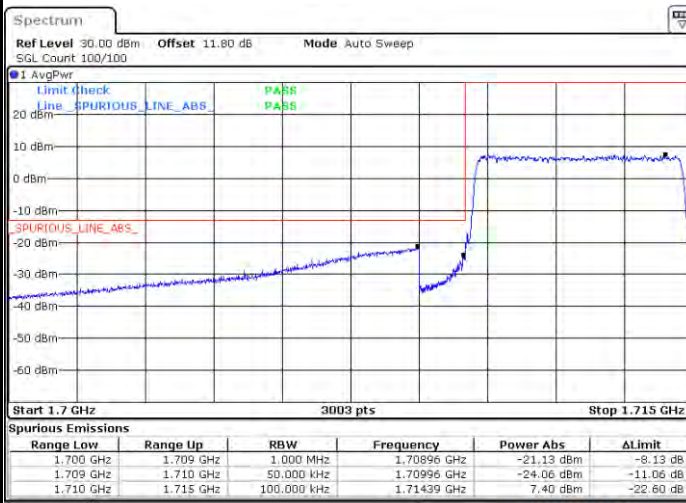
Highest Band Edge / Full RB



Date: 12.JAN.2024 01:11:33

LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:08:35

Highest Band Edge / Full RB



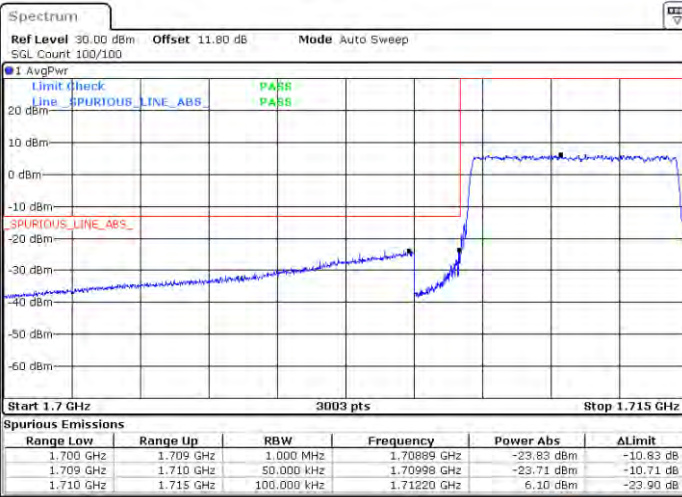
Date: 12.JAN.2024 01:12:40





LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / Full RB

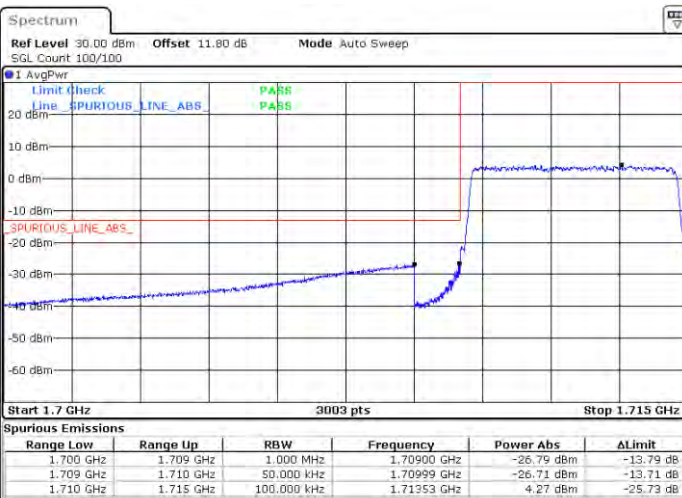


Highest Band Edge / Full RB



LTE Band 4 / 5MHz / 256QAM

Lowest Band Edge / Full RB



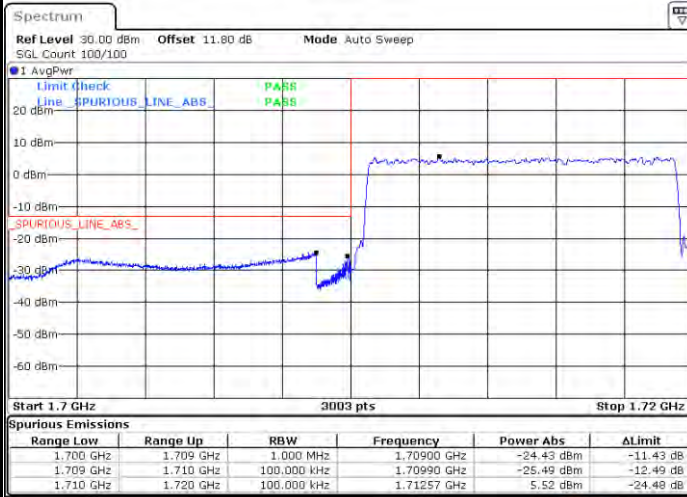
Highest Band Edge / Full RB





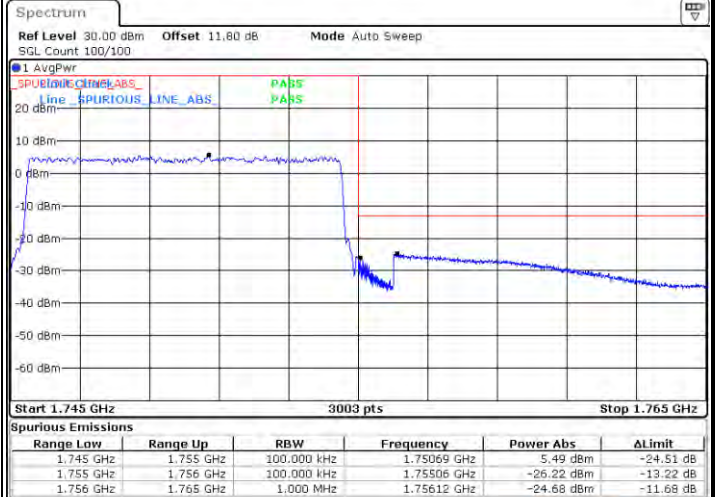
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:13:53

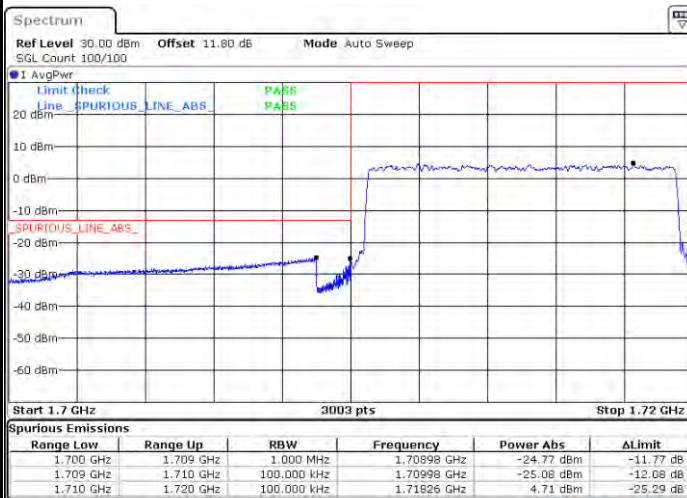
Highest Band Edge / Full RB



Date: 12.JAN.2024 01:13:53

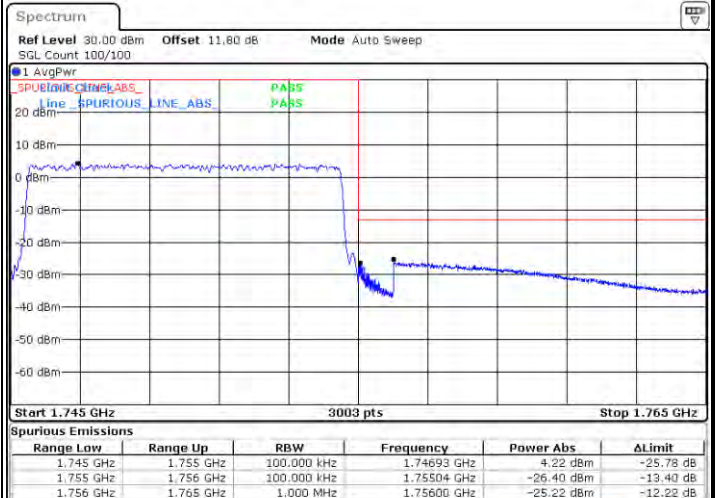
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:19:00

Highest Band Edge / Full RB

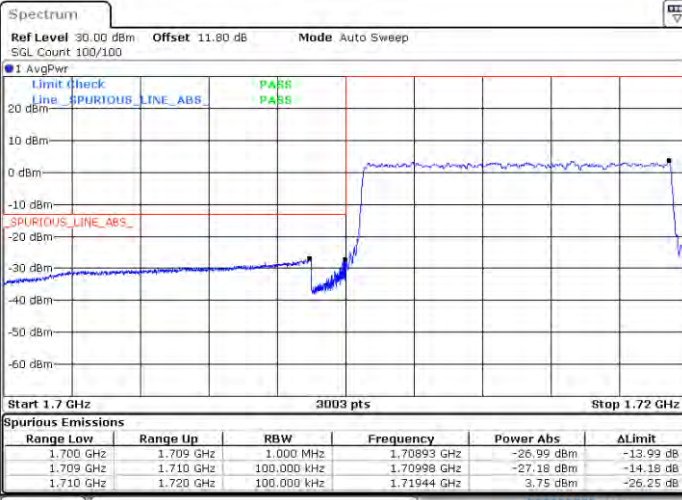


Date: 12.JAN.2024 01:19:06



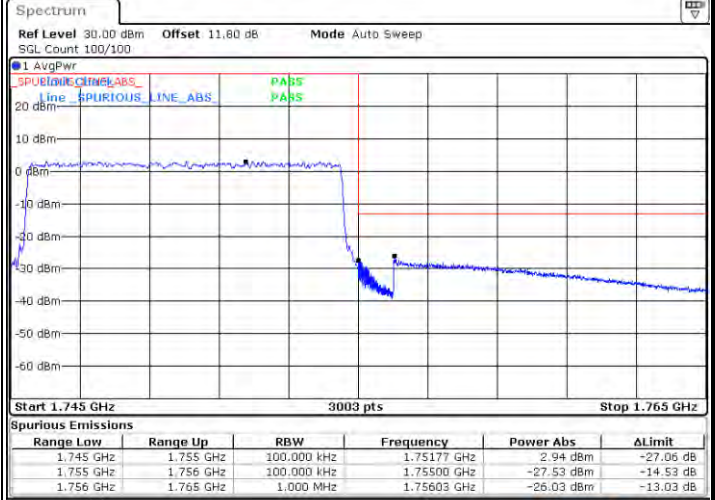
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:20:14

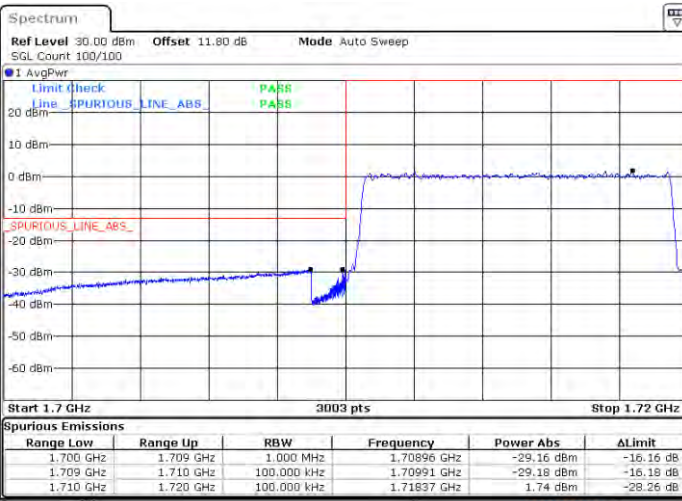
Highest Band Edge / Full RB



Date: 12.JAN.2024 01:23:52

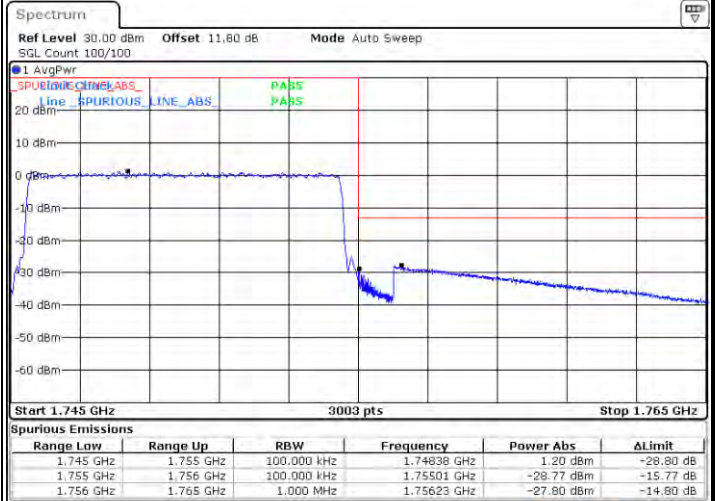
LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 02:58:25

Highest Band Edge / Full RB

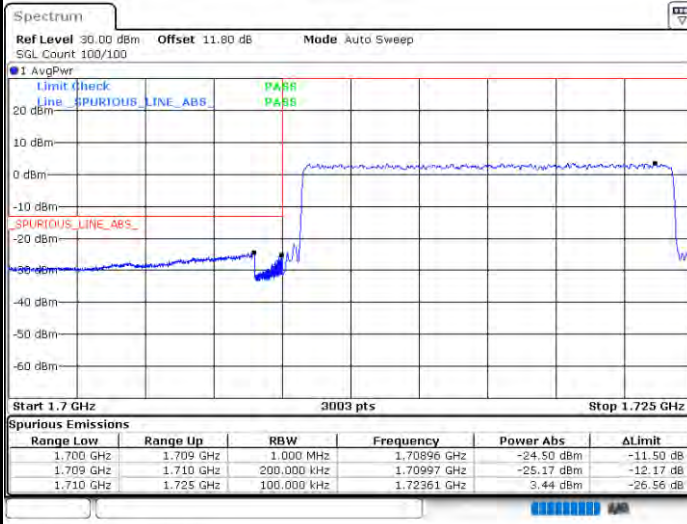


Date: 12.JAN.2024 02:56:13



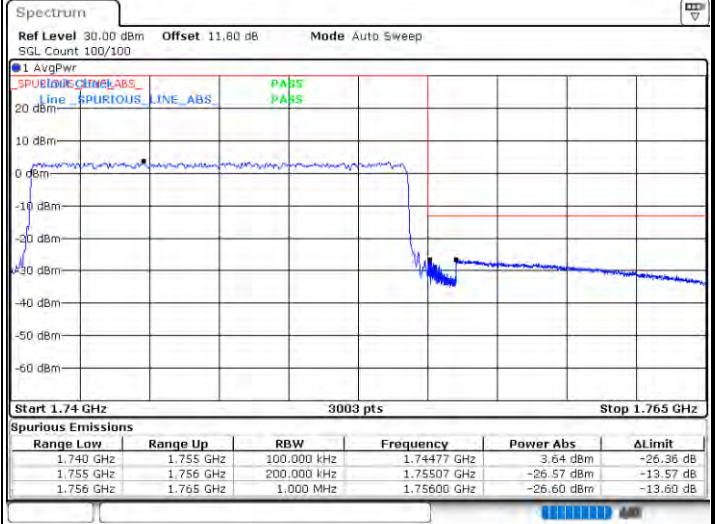
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:27:01

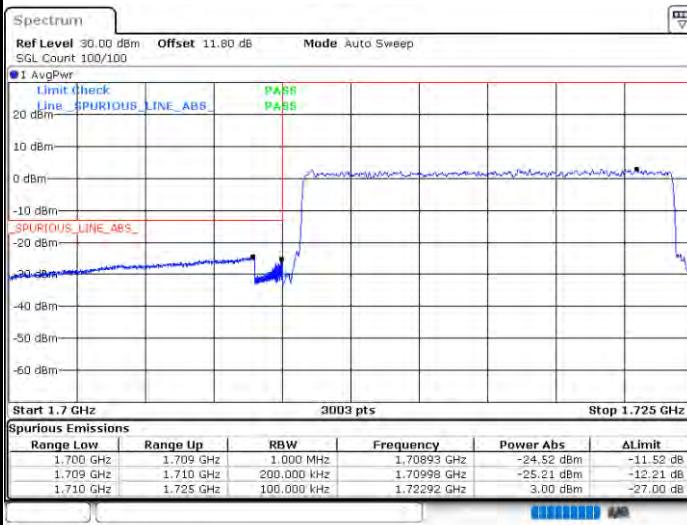
Highest Band Edge / Full RB



Date: 12.JAN.2024 01:35:00

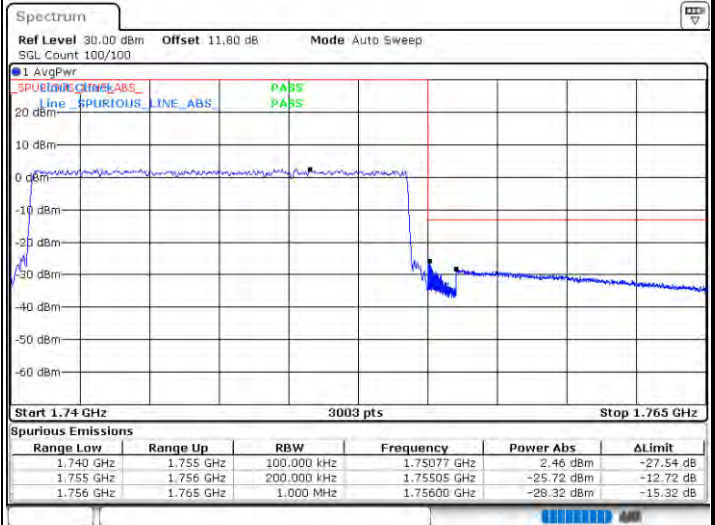
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:28:12

Highest Band Edge / Full RB

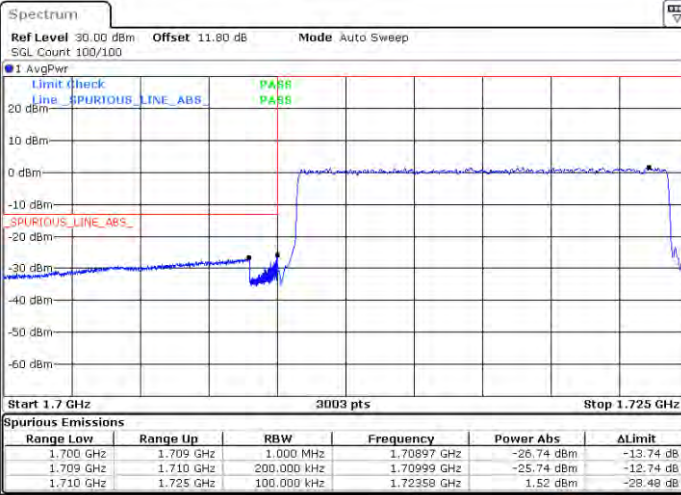


Date: 12.JAN.2024 01:36:05



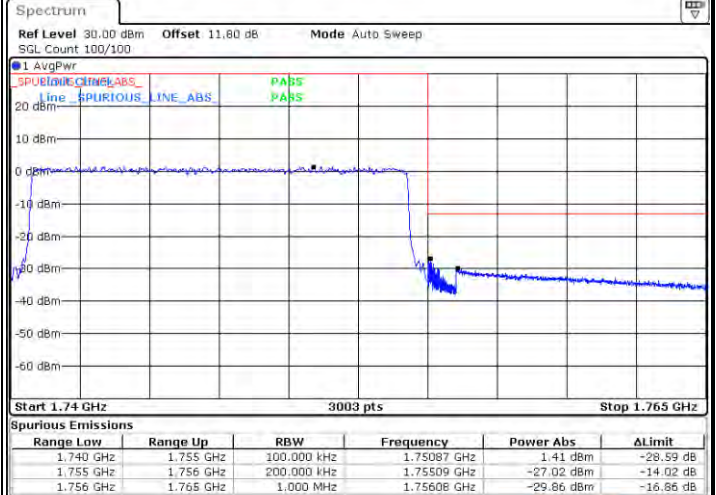
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:37:16

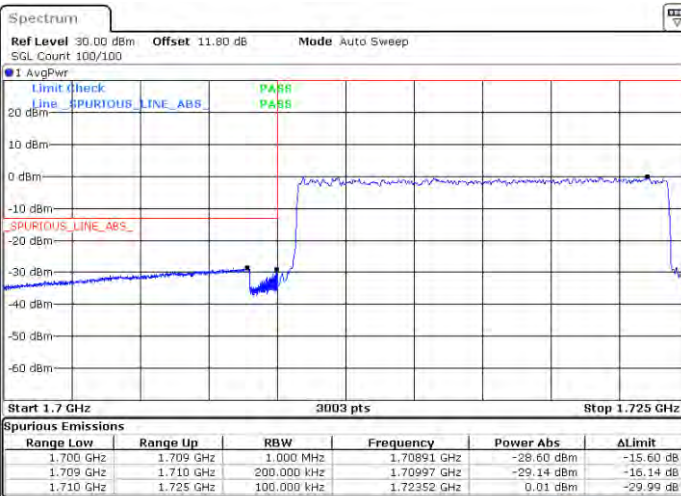
Highest Band Edge / Full RB



Date: 12.JAN.2024 01:39:04

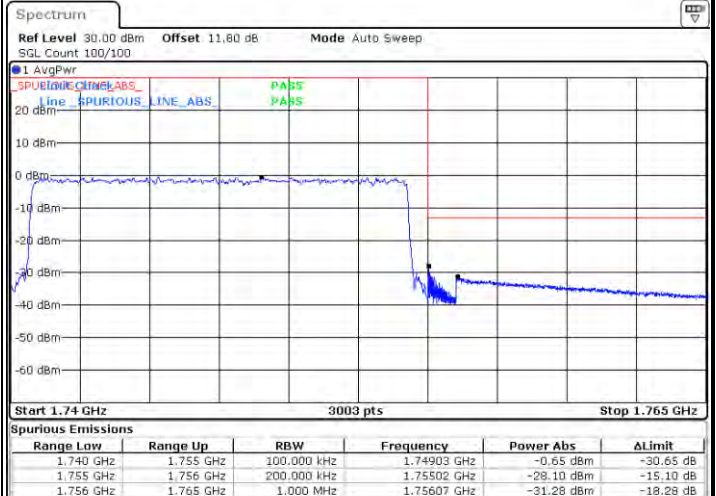
LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 02:57:25

Highest Band Edge / Full RB

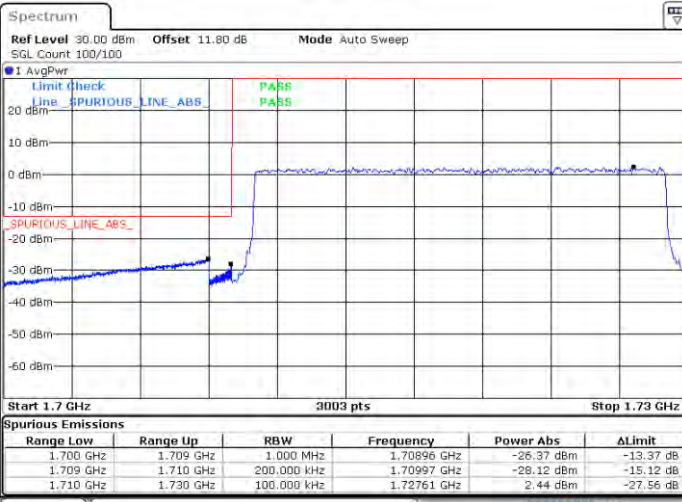


Date: 12.JAN.2024 02:59:14



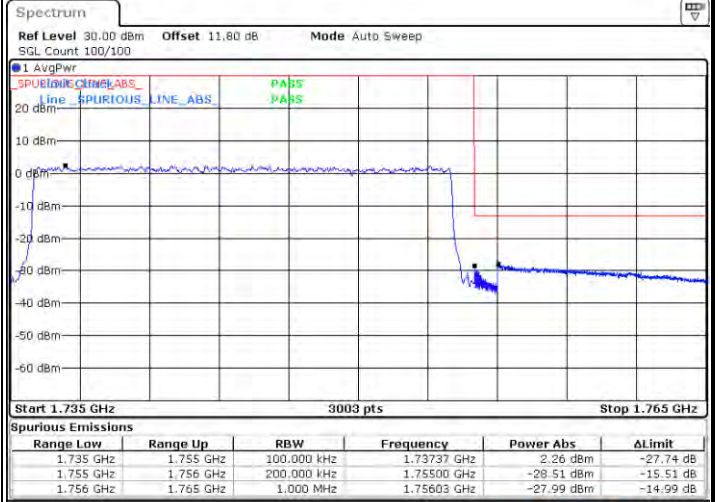
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:40:16

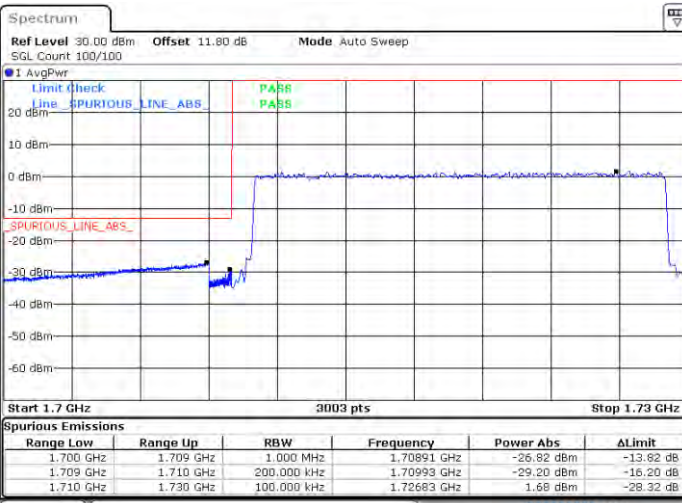
Highest Band Edge / Full RB



Date: 12.JAN.2024 01:49:12

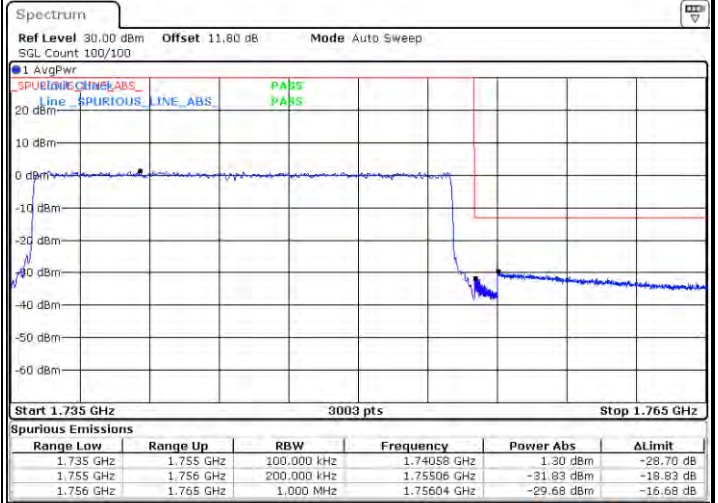
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 12.JAN.2024 01:41:23

Highest Band Edge / Full RB

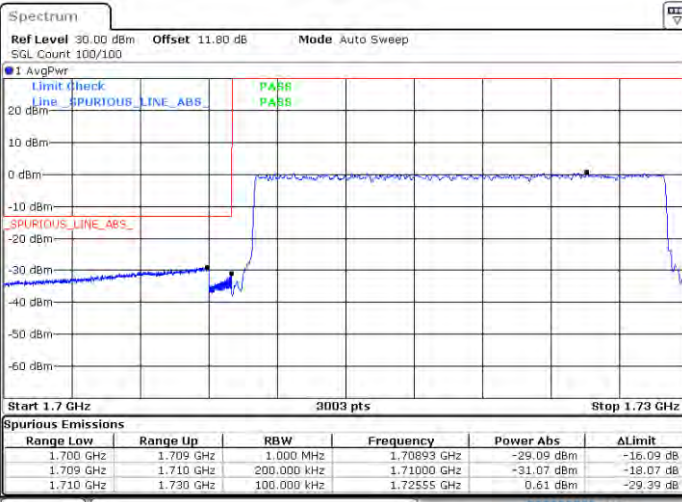


Date: 12.JAN.2024 01:49:20

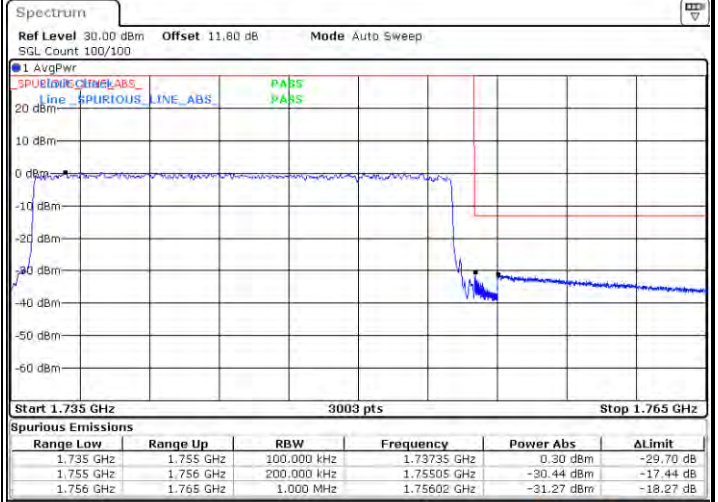


LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / Full RB

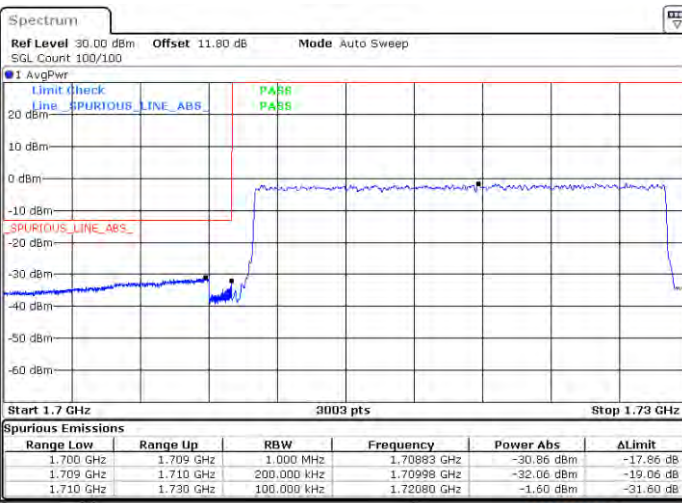


Highest Band Edge / Full RB

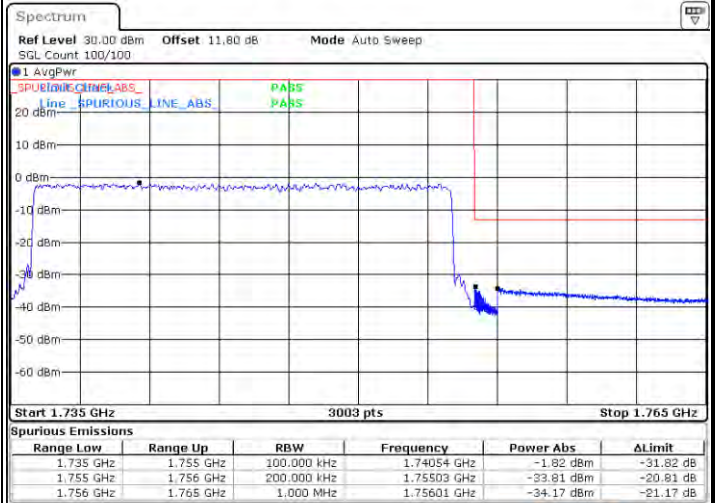


LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



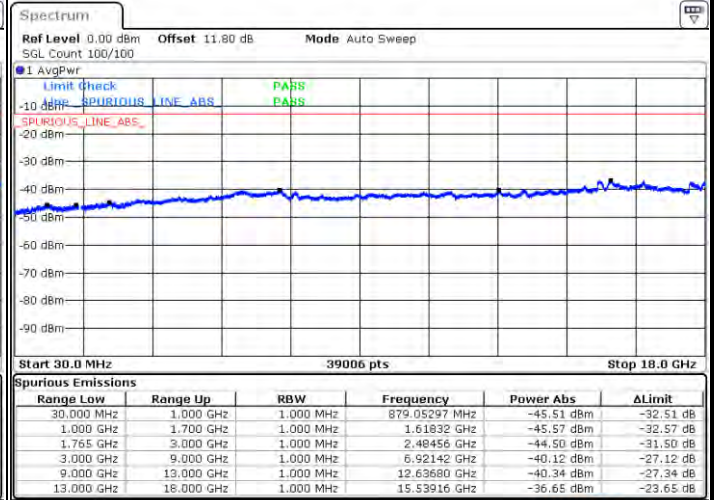
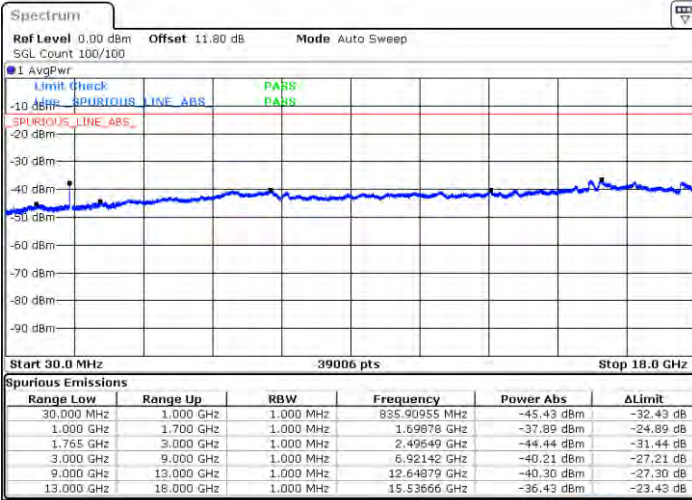


# Conducted Spurious Emission

## LTE Band 4 / 1.4MHz

### Lowest Channel / QPSK

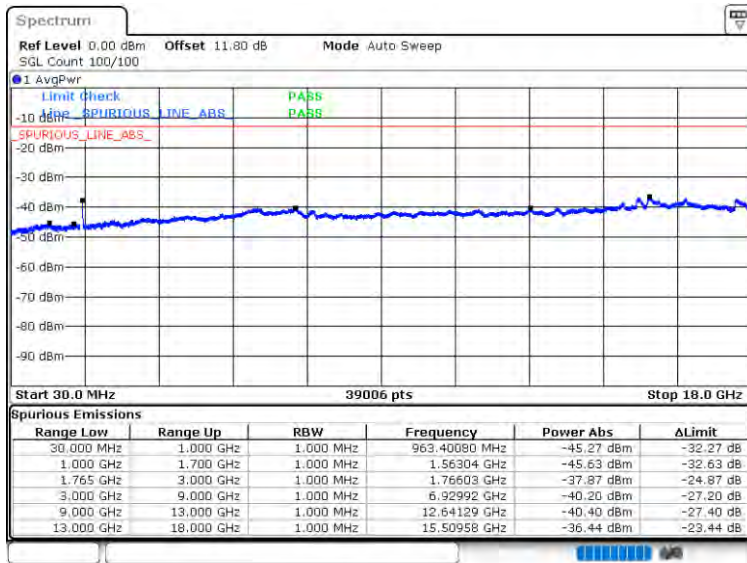
### Middle Channel / QPSK



Date: 12, JAN, 2024 00:30:16

Date: 12, JAN, 2024 00:31:16

### Highest Channel / QPSK



Date: 12, JAN, 2024 00:39:13

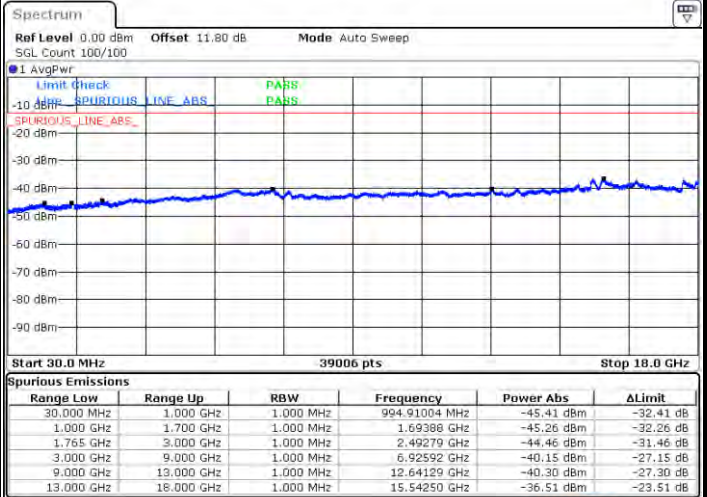
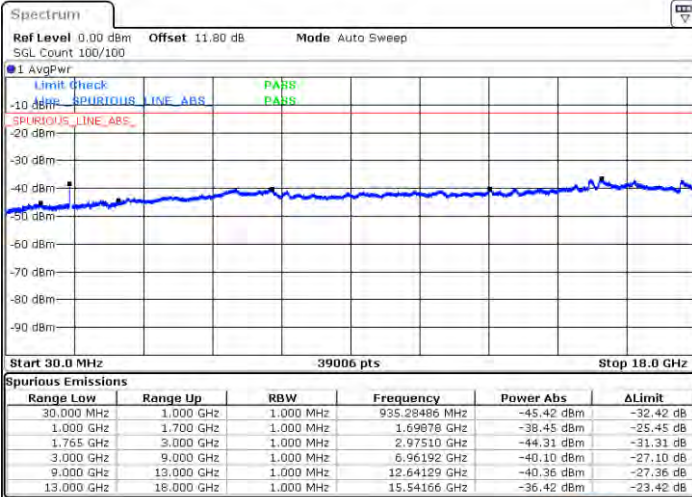




LTE Band 4 / 3MHz

Lowest Channel / QPSK

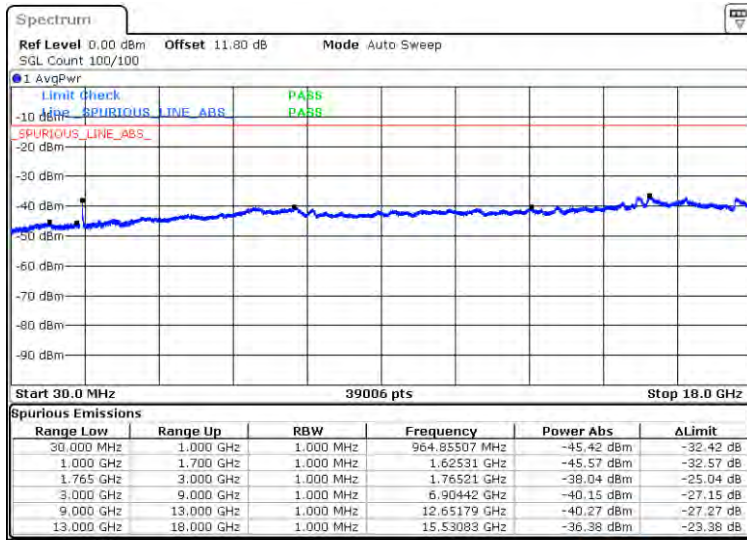
Middle Channel / QPSK



Date: 12.JAN.2024 00:50:51

Date: 12.JAN.2024 00:52:07

Highest Channel / QPSK



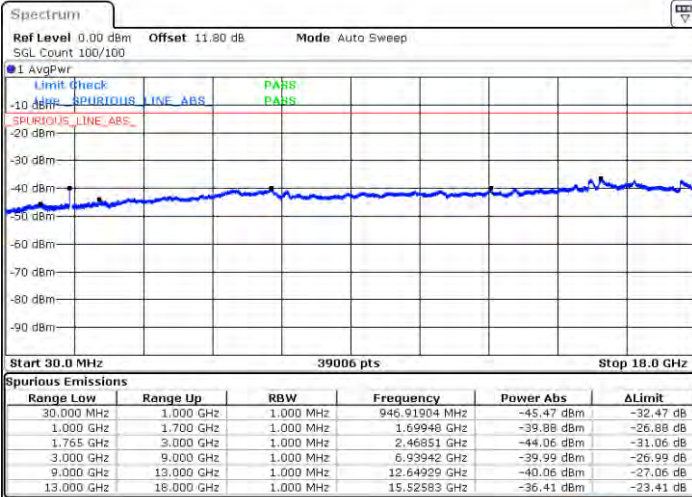
Date: 12.JAN.2024 00:53:23



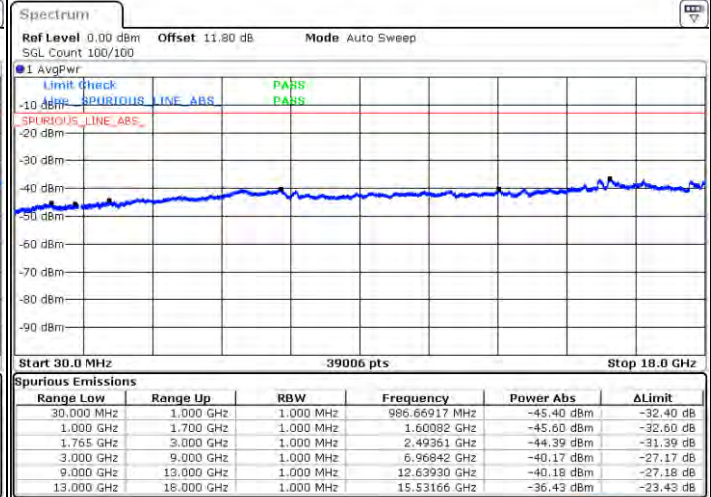
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

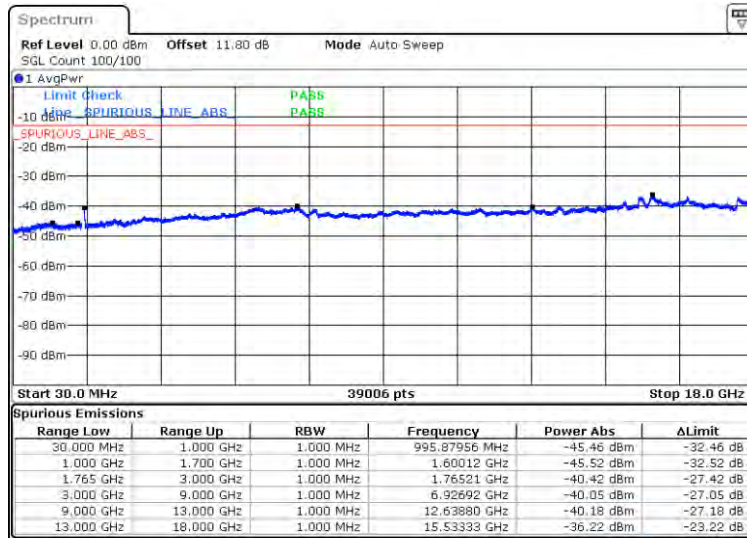


Date: 12.JAN.2024 01:02:40



Date: 12.JAN.2024 01:03:56

Highest Channel / QPSK



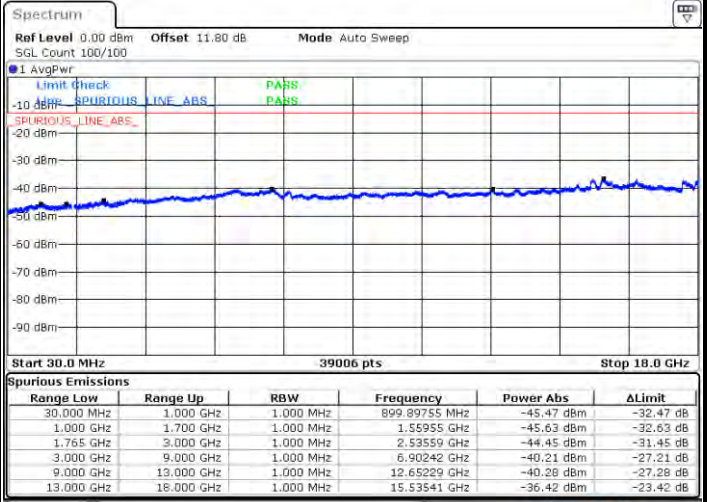
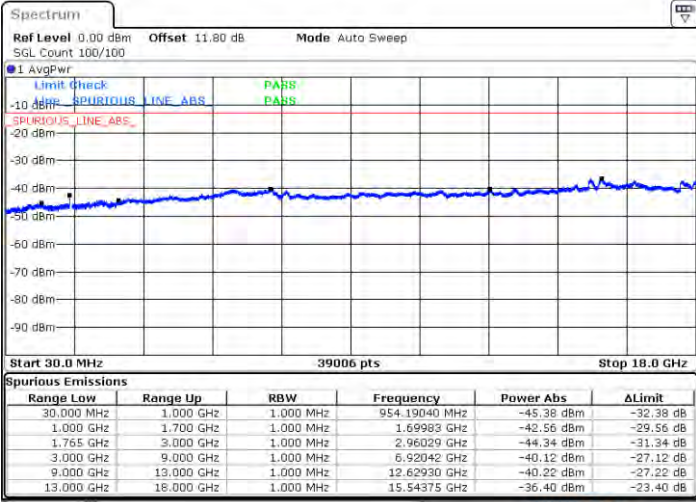
Date: 12.JAN.2024 01:05:12



LTE Band 4 / 10MHz

Lowest Channel / QPSK

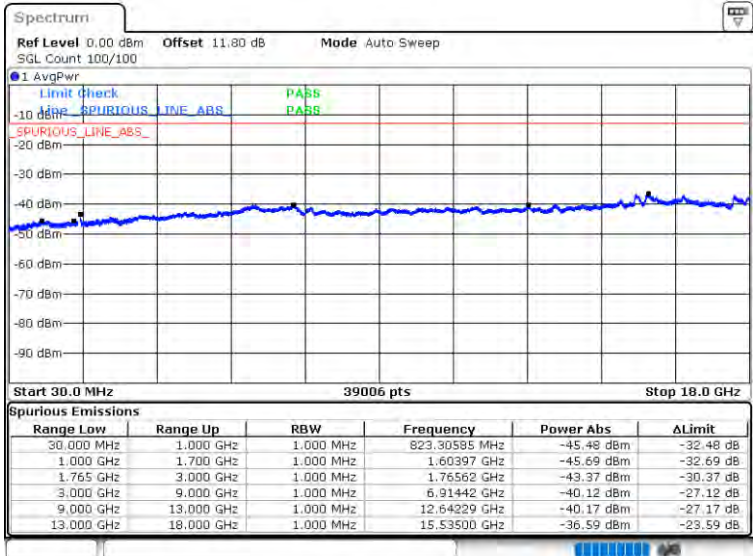
Middle Channel / QPSK



Date: 12.JAN.2024 01:22:11

Date: 12.JAN.2024 01:23:26

Highest Channel / QPSK



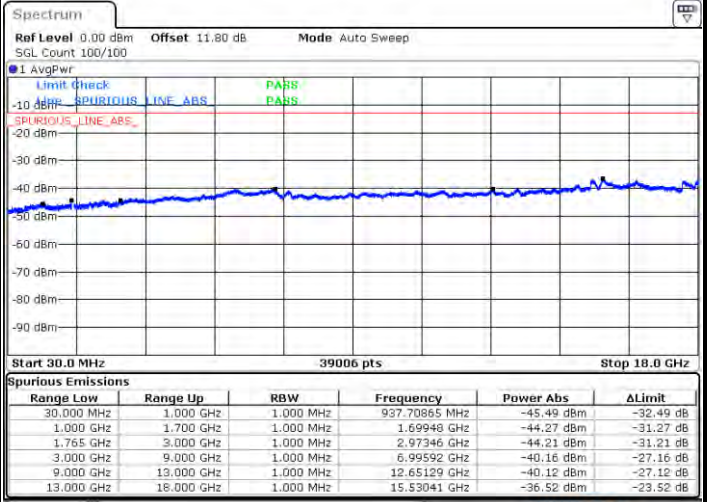
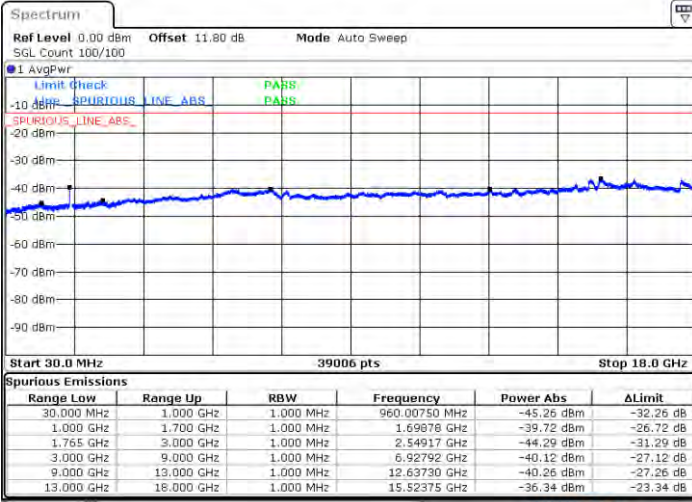
Date: 12.JAN.2024 01:24:44



LTE Band 4 / 15MHz

Lowest Channel / QPSK

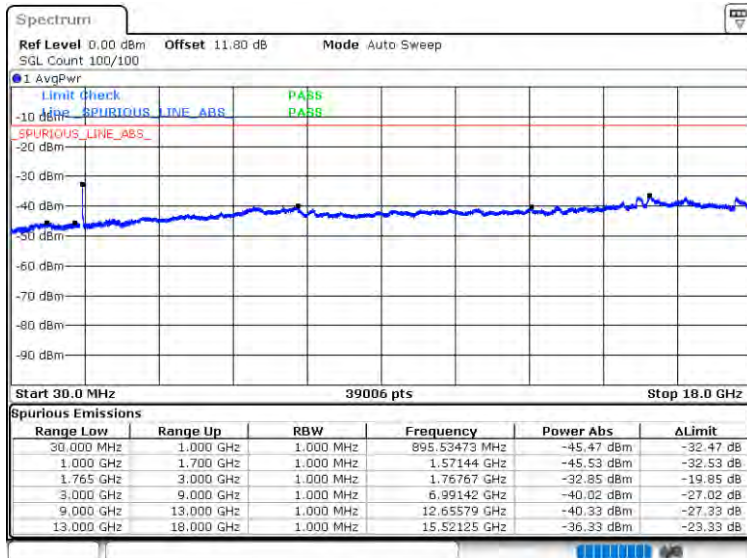
Middle Channel / QPSK



Date: 12, JAN, 2024 01:31:20

Date: 12, JAN, 2024 01:32:36

Highest Channel / QPSK



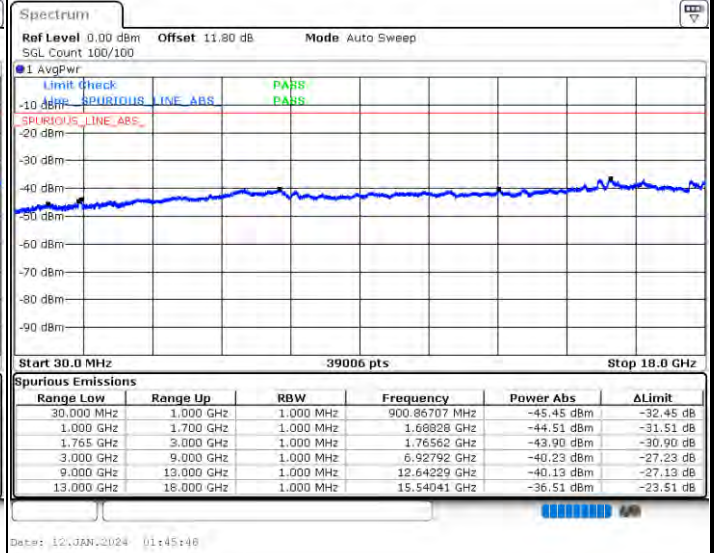
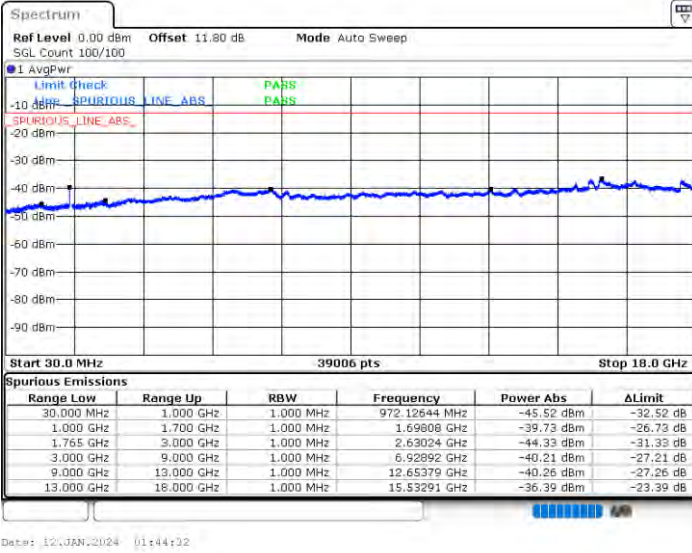
Date: 12, JAN, 2024 01:33:53



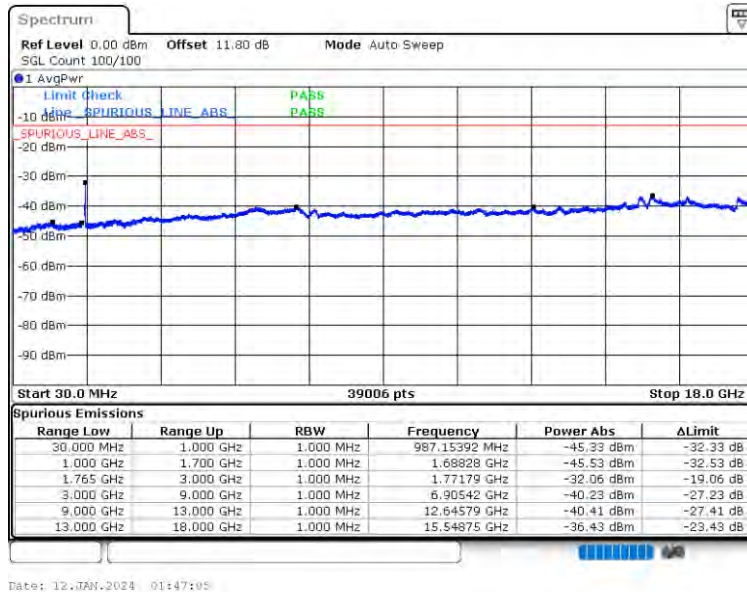
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





**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	0.0006	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0065	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0036	
-20	Normal Voltage	0.0098	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0089	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0058	

**Note:**

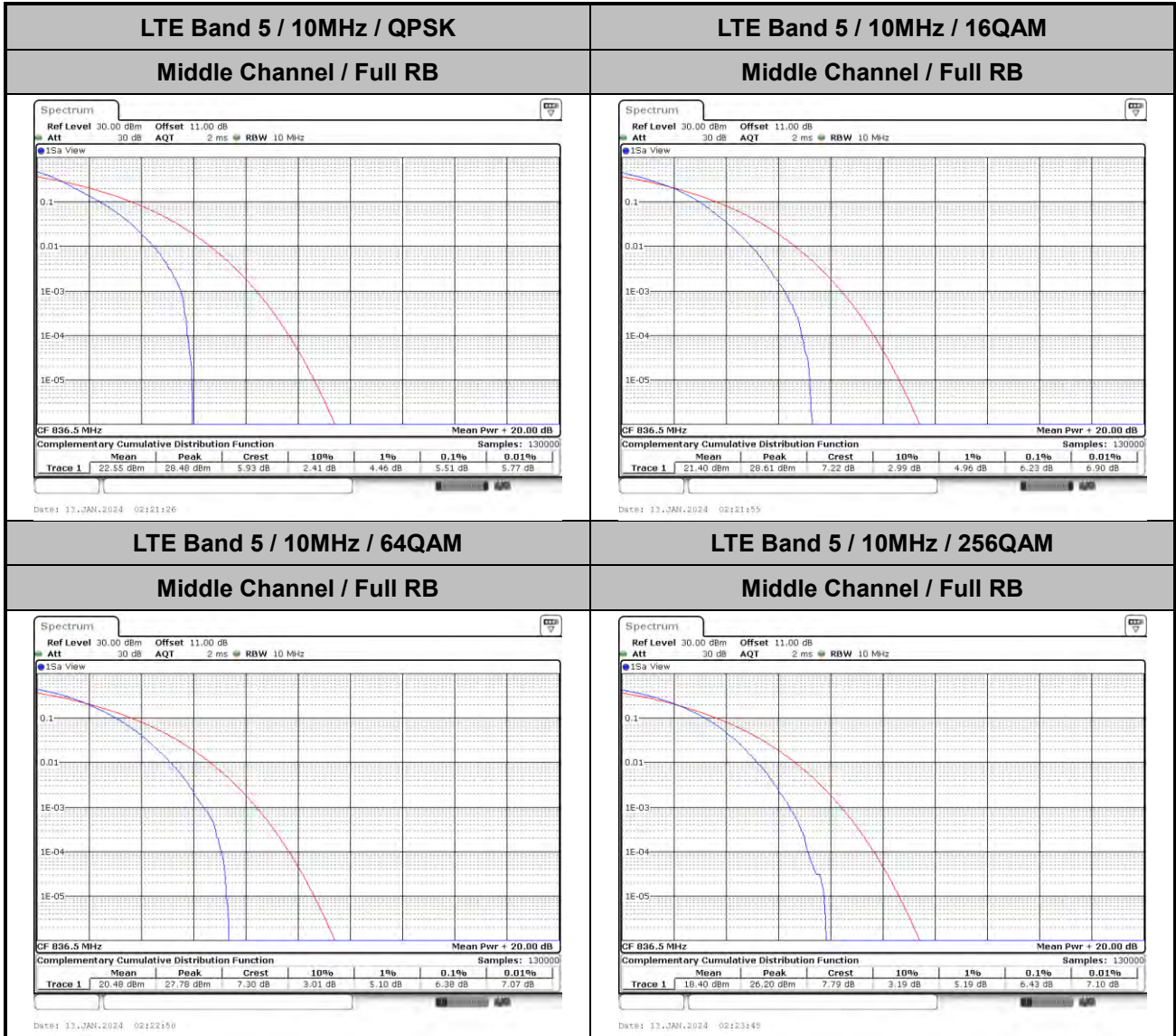
- 1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5

### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.51	6.23	6.38	6.43	PASS







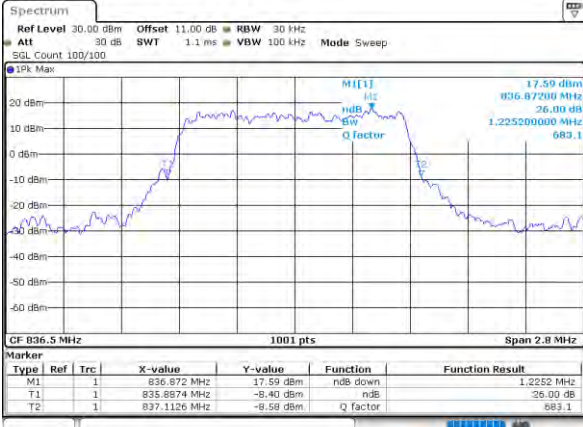
**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.22	1.27	3.07	3.04	4.88	5.22	9.81	10.02	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.28	1.29	3.08	3.00	5.02	5.09	9.81	9.73	-	-	-	-



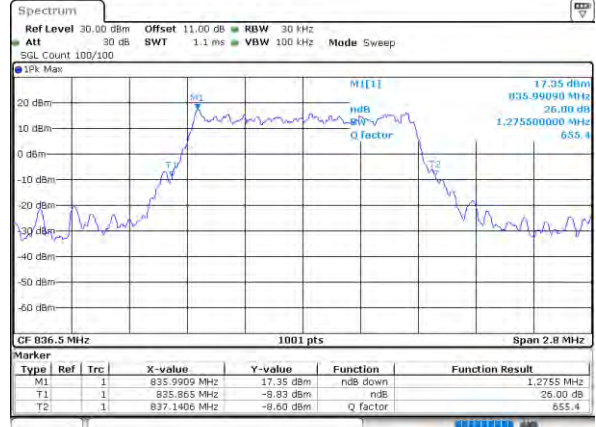
LTE Band 5

Middle Channel / 1.4MHz / QPSK



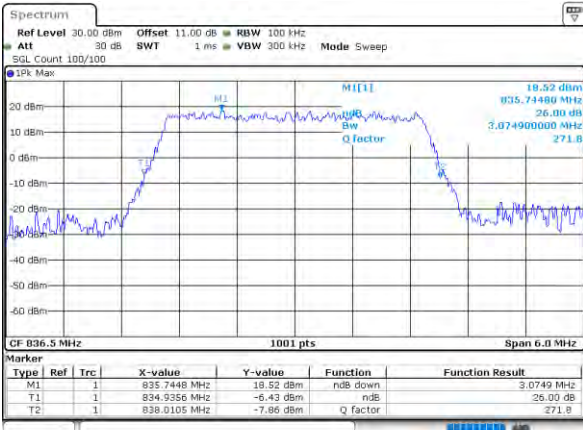
Date: 13\_JAN\_2024 01:34:17

Middle Channel / 1.4MHz / 16QAM



Date: 13\_JAN\_2024 01:34:57

Middle Channel / 3MHz / QPSK



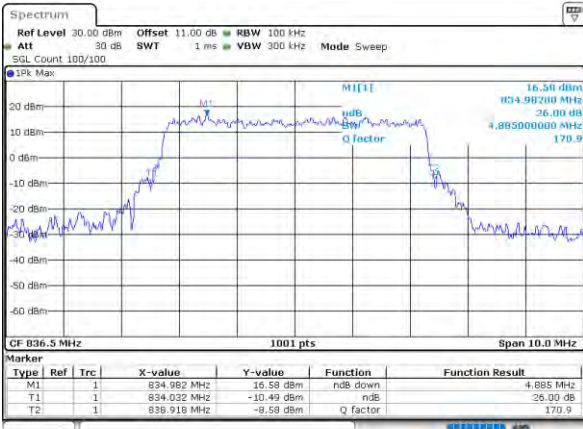
Date: 13\_JAN\_2024 01:35:48

Middle Channel / 3MHz / 16QAM



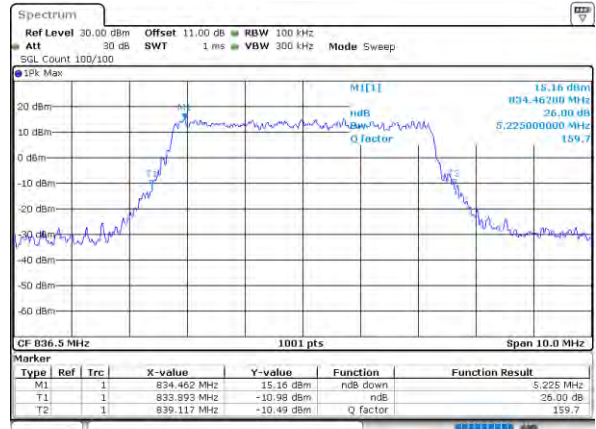
Date: 13\_JAN\_2024 01:36:29

Middle Channel / 5MHz / QPSK



Date: 13\_JAN\_2024 02:07:30

Middle Channel / 5MHz / 16QAM

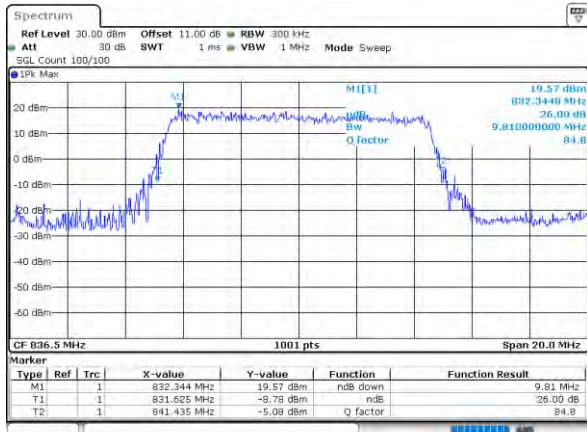


Date: 13\_JAN\_2024 02:08:11



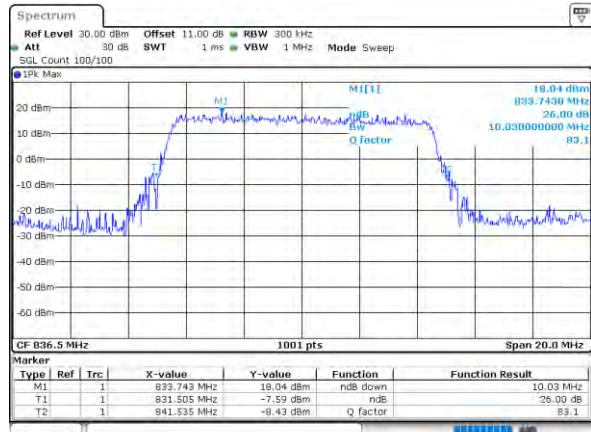
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 13\_JAN\_2024 02:21:13

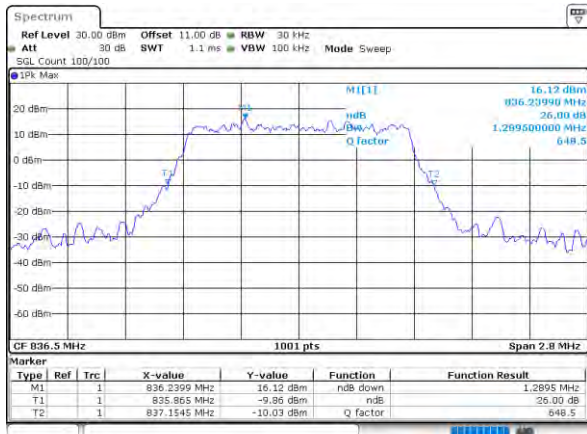
Middle Channel / 10MHz / 16QAM



Date: 13\_JAN\_2024 02:22:21

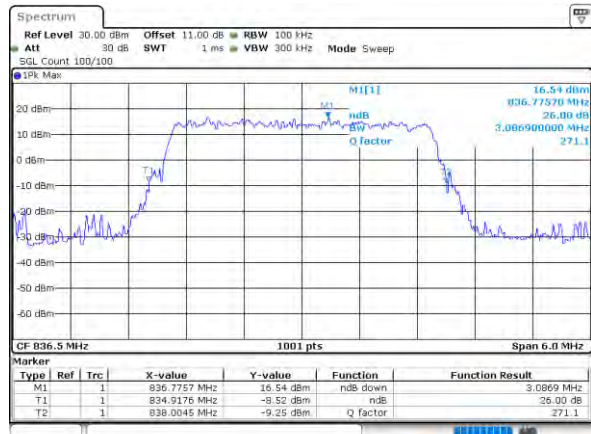
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



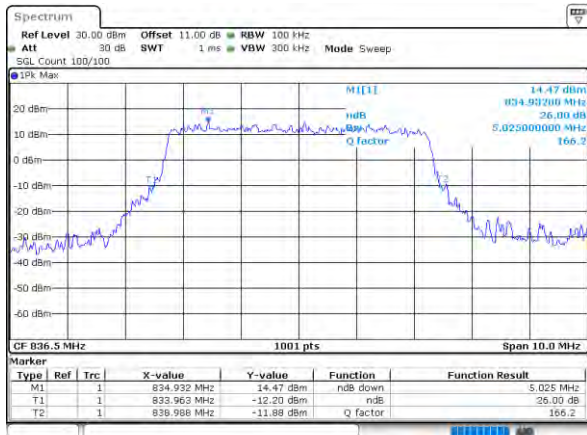
Date: 13\_JAN\_2024 01:35:38

Middle Channel / 3MHz / 64QAM



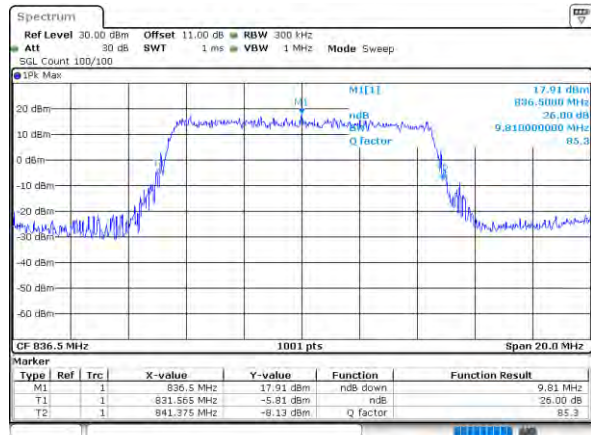
Date: 13\_JAN\_2024 01:55:10

Middle Channel / 5MHz / 64QAM



Date: 13\_JAN\_2024 02:19:53

Middle Channel / 10MHz / 64QAM



Date: 13\_JAN\_2024 02:23:16



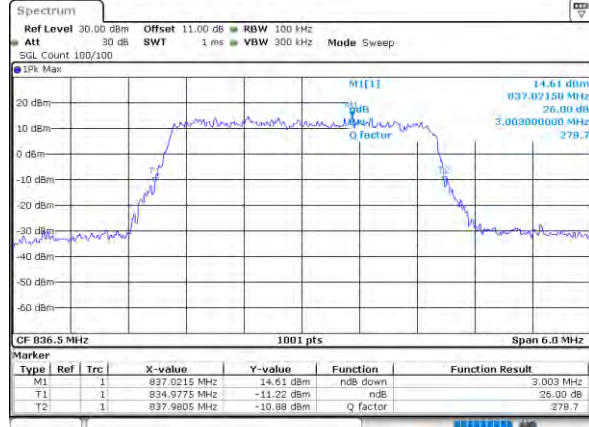
LTE Band 5

Middle Channel / 1.4MHz / 256QAM



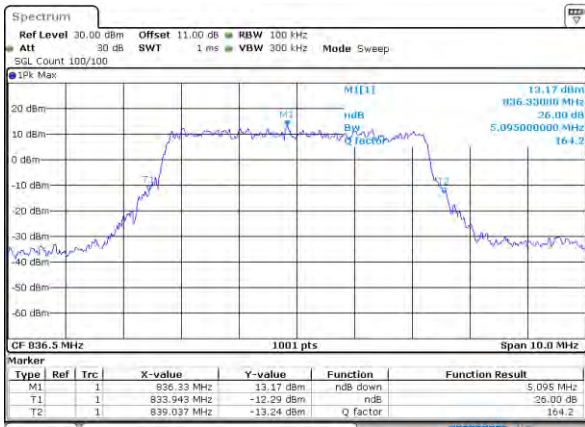
Date: 13\_JAN\_2024 01:36:19

Middle Channel / 3MHz / 256QAM



Date: 13\_JAN\_2024 01:55:01

Middle Channel / 5MHz / 256QAM



Date: 13\_JAN\_2024 02:09:32

Middle Channel / 10MHz / 256QAM



Date: 13\_JAN\_2024 02:24:11



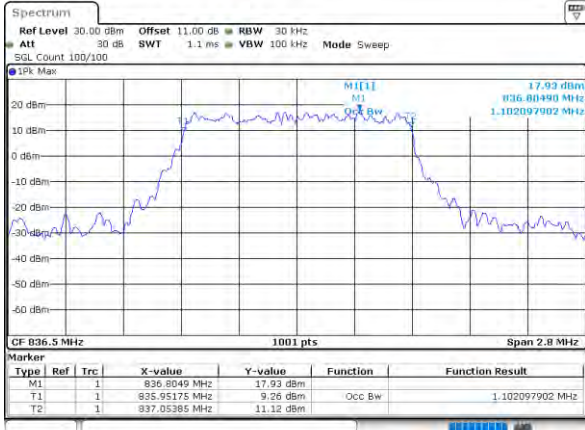
**Occupied Bandwidth**

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.09	2.72	2.73	4.51	4.51	9.01	9.03	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	1.09	2.73	2.72	4.52	4.48	9.07	9.07	-	-	-	-

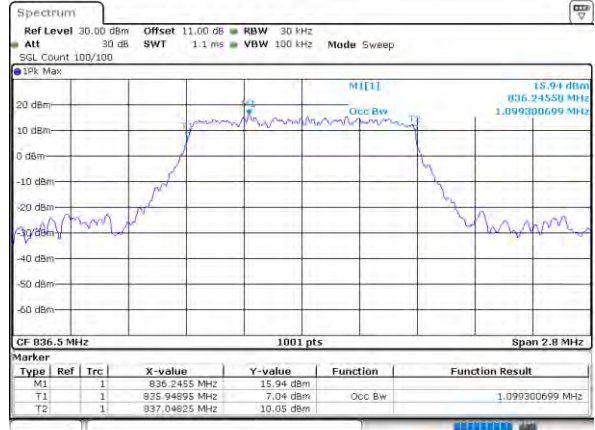


LTE Band 5

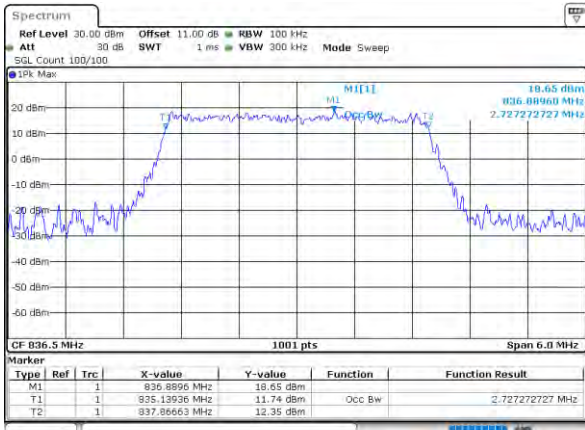
Middle Channel / 1.4MHz / QPSK



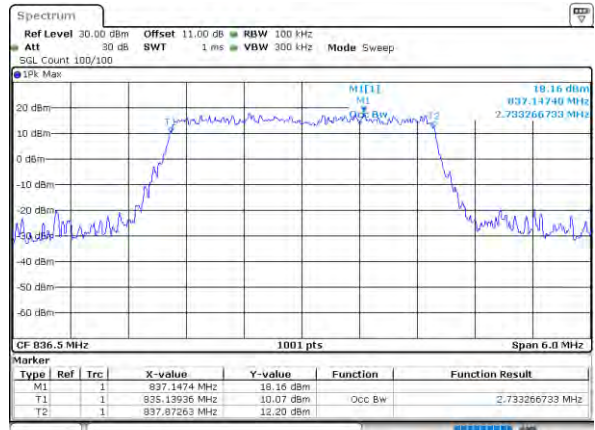
Middle Channel / 1.4MHz / 16QAM



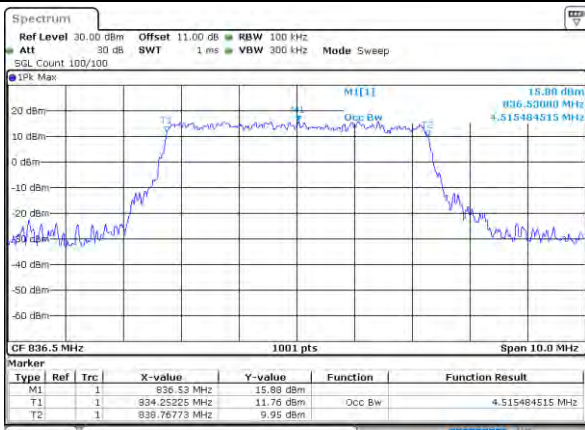
Middle Channel / 3MHz / QPSK



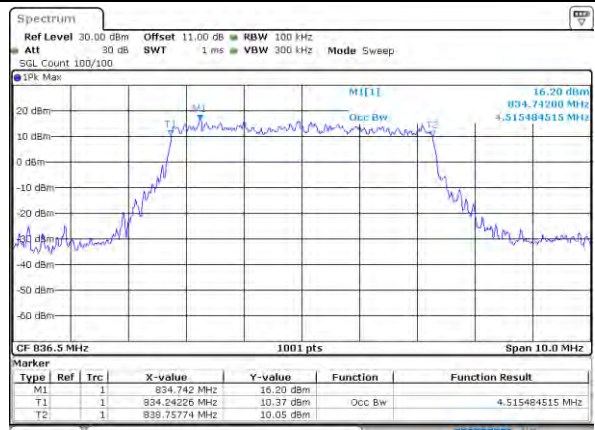
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



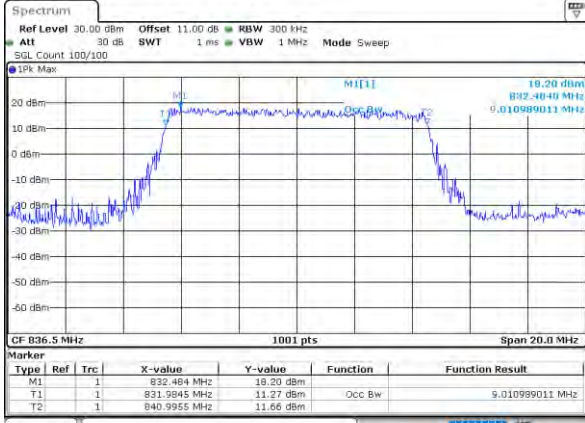
Middle Channel / 5MHz / 16QAM





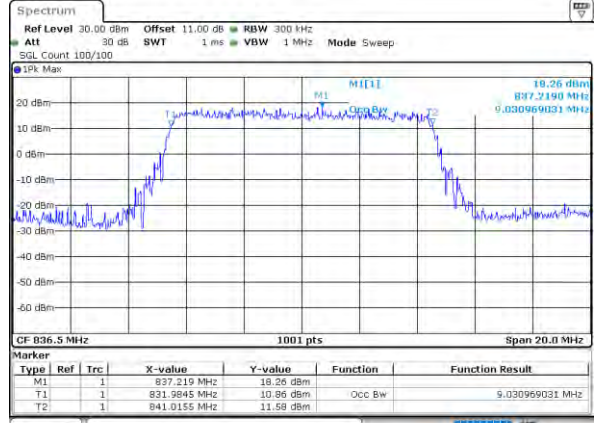
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 13\_JAN\_2024 02:28:59

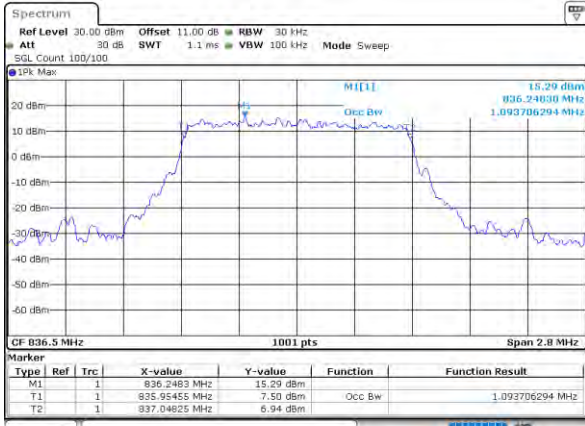
Middle Channel / 10MHz / 16QAM



Date: 13\_JAN\_2024 02:22:09

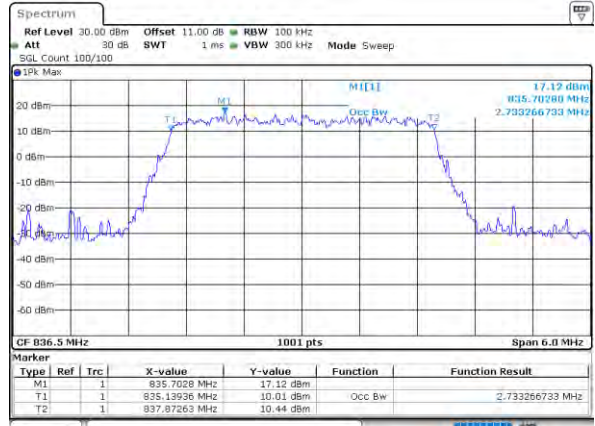
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



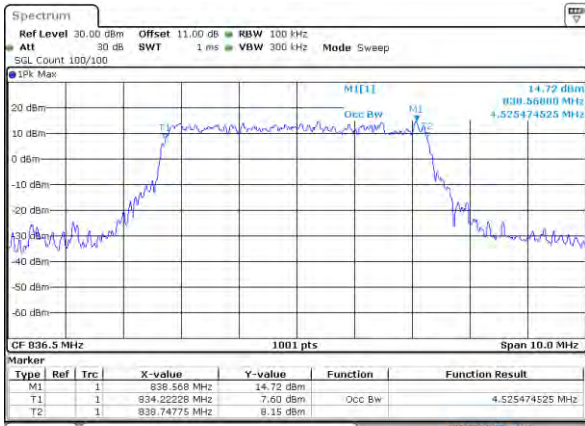
Date: 13\_JAN\_2024 01:38:25

Middle Channel / 3MHz / 64QAM



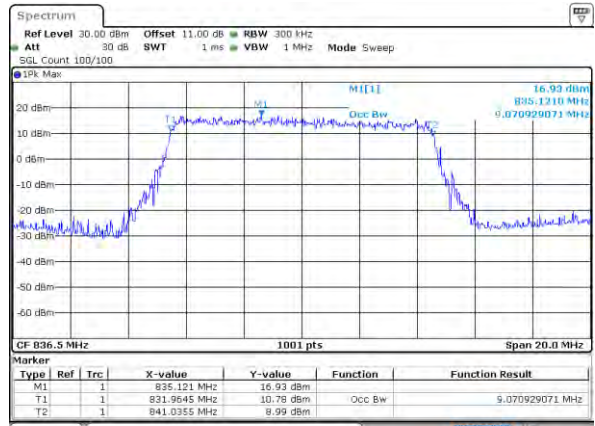
Date: 13\_JAN\_2024 01:44:57

Middle Channel / 5MHz / 64QAM



Date: 13\_JAN\_2024 02:19:19

Middle Channel / 10MHz / 64QAM

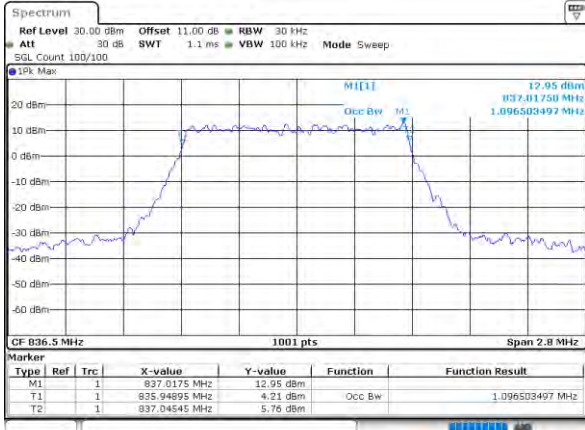


Date: 13\_JAN\_2024 02:23:03



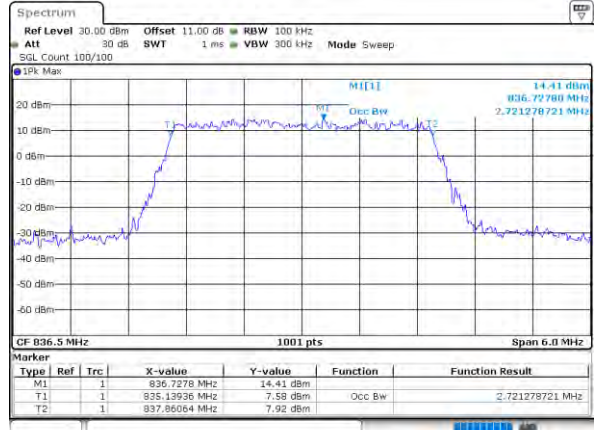
LTE Band 5

Middle Channel / 1.4MHz / 256QAM



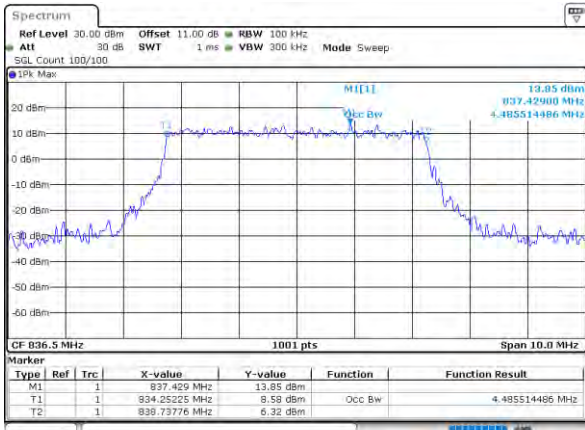
Date: 13\_JAN\_2024 01:36:10

Middle Channel / 3MHz / 256QAM



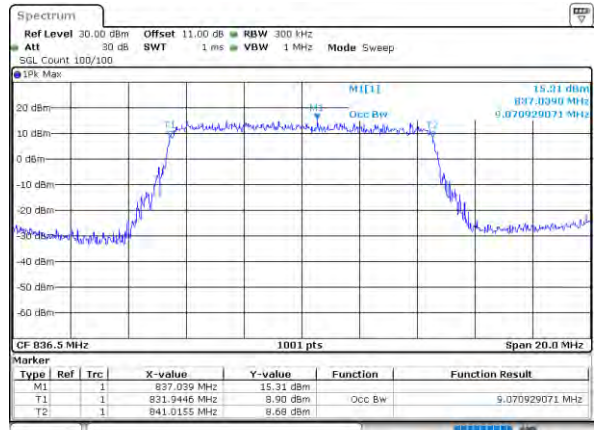
Date: 13\_JAN\_2024 01:55:38

Middle Channel / 5MHz / 256QAM



Date: 13\_JAN\_2024 02:08:10

Middle Channel / 10MHz / 256QAM



Date: 13\_JAN\_2024 02:23:59





# Conducted Band Edge

## LTE Band 5 / 1.4MHz / QPSK

### Lowest Band Edge / 1RB



Date: 13 JAN 2024 01:23:09

### Highest Band Edge / 1RB



Date: 13 JAN 2024 01:41:59

### Lowest Band Edge / Full RB



Date: 13 JAN 2024 01:28:56

### Highest Band Edge / Full RB

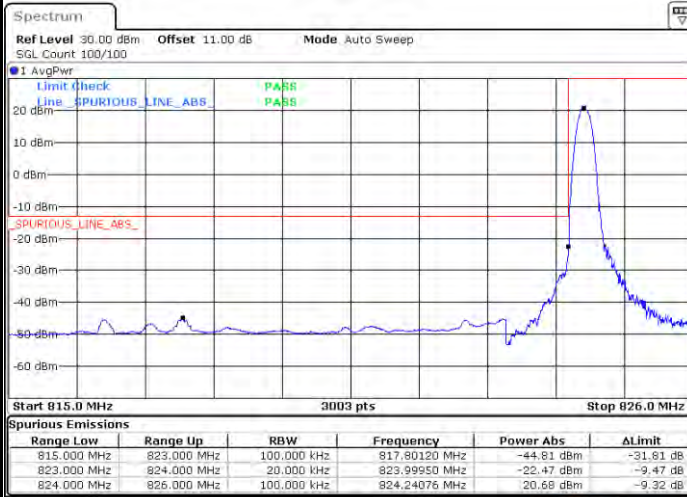


Date: 13 JAN 2024 01:37:25



LTE Band 5 / 1.4MHz / 16QAM

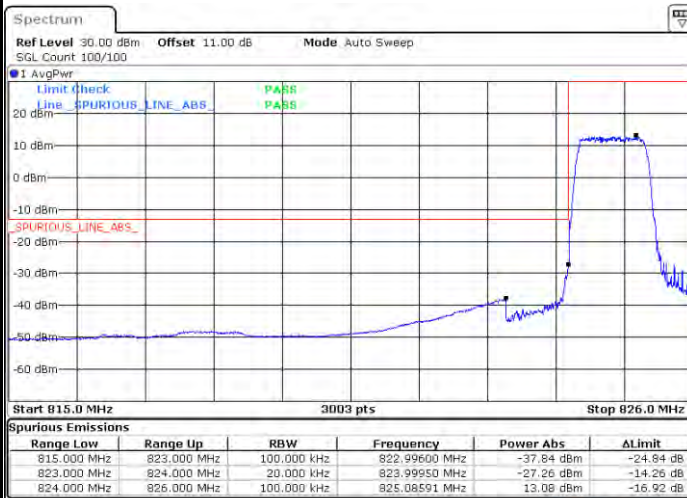
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



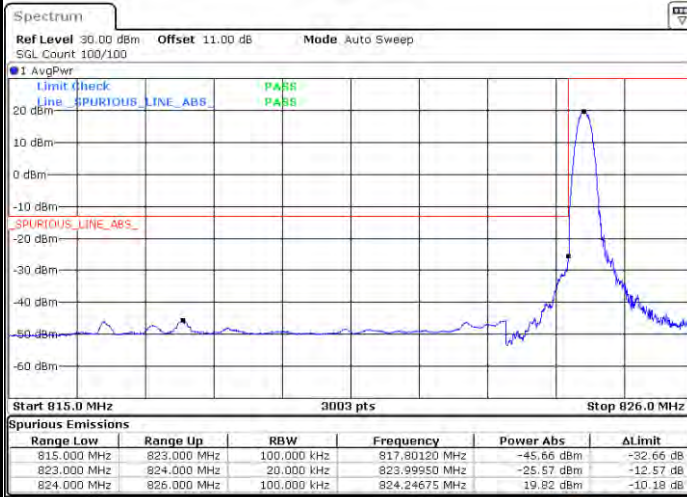
Highest Band Edge / Full RB





LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



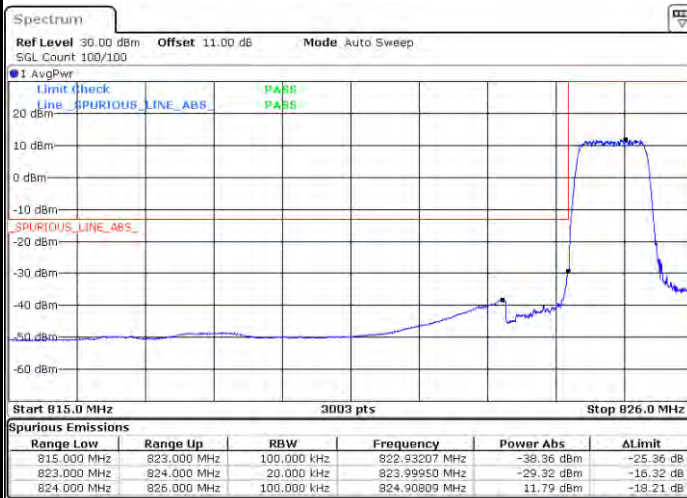
Date: 13 JAN 2024 01:29:24

Highest Band Edge / 1 RB



Date: 13 JAN 2024 01:44:14

Lowest Band Edge / Full RB



Date: 13 JAN 2024 01:31:11

Highest Band Edge / Full RB

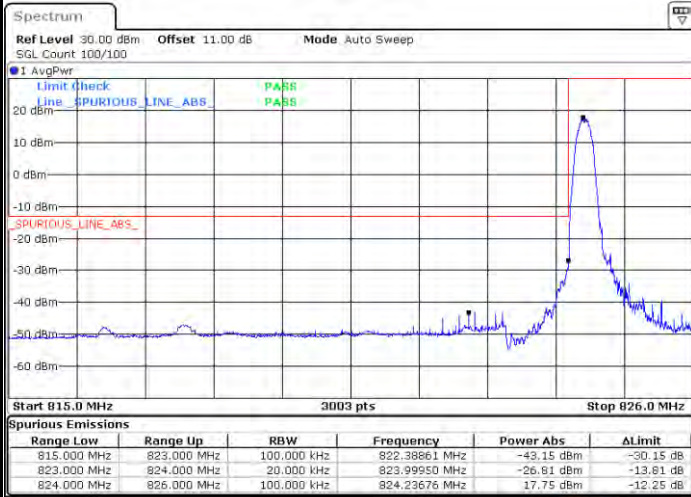


Date: 13 JAN 2024 01:39:40



LTE Band 5 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



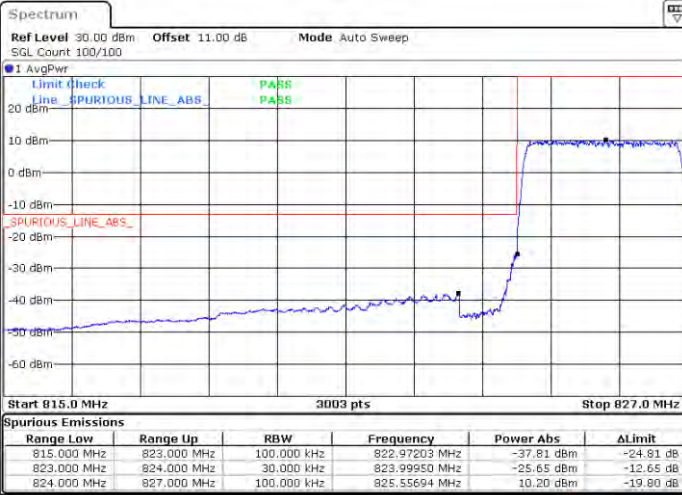
Highest Band Edge / Full RB





LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 13 JAN 2024 01:49:45

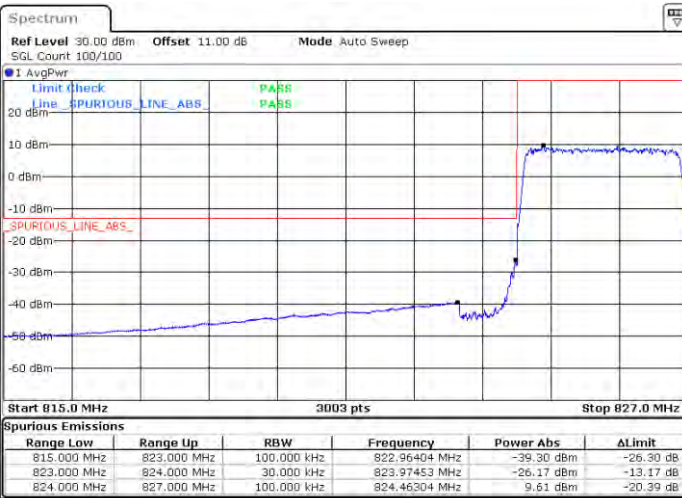
Highest Band Edge / Full RB



Date: 13 JAN 2024 01:56:57

LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 01:50:52

Highest Band Edge / Full RB



Date: 13 JAN 2024 01:58:05



LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 01:52:00

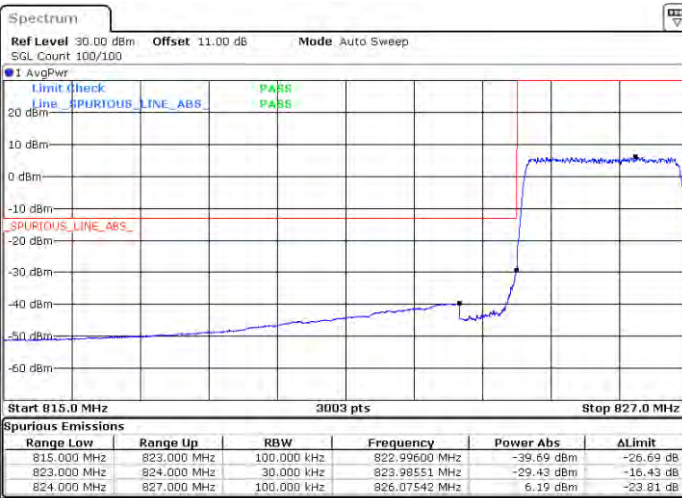
Highest Band Edge / Full RB



Date: 13 JAN 2024 01:59:12

LTE Band 5 / 3MHz / 256QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 01:52:07

Highest Band Edge / Full RB

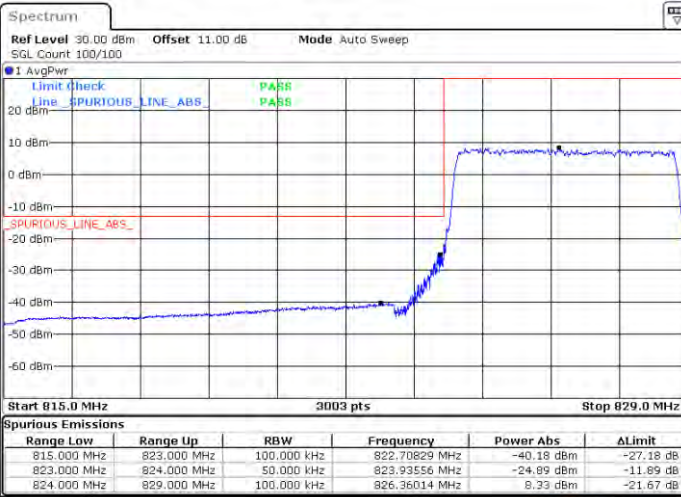


Date: 13 JAN 2024 02:00:19



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:03:26

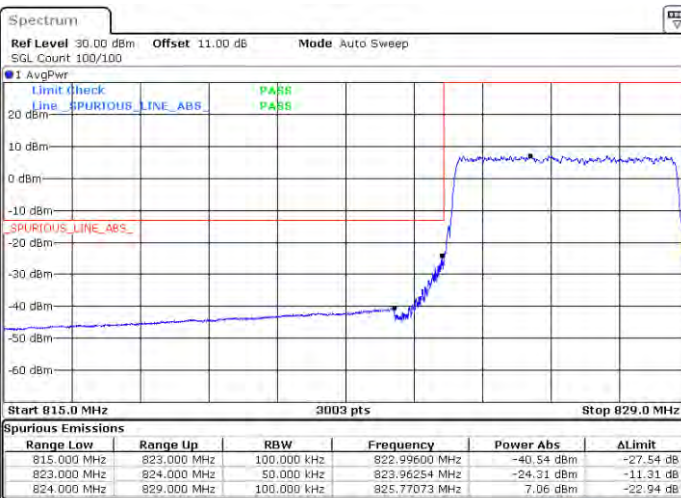
Highest Band Edge / Full RB



Date: 13 JAN 2024 02:10:39

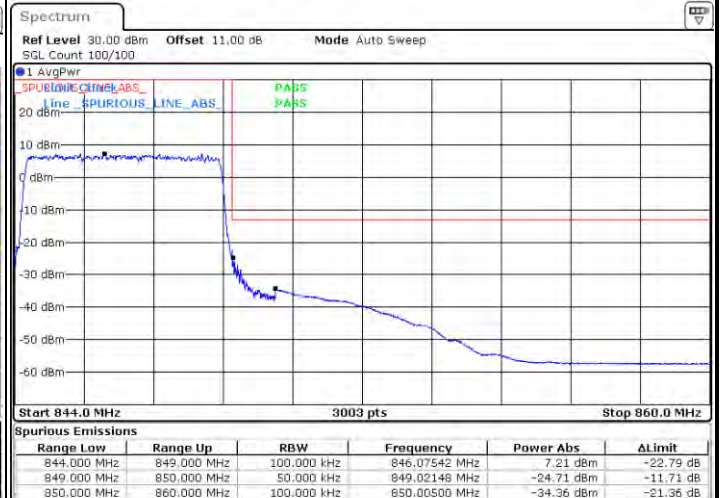
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:04:33

Highest Band Edge / Full RB

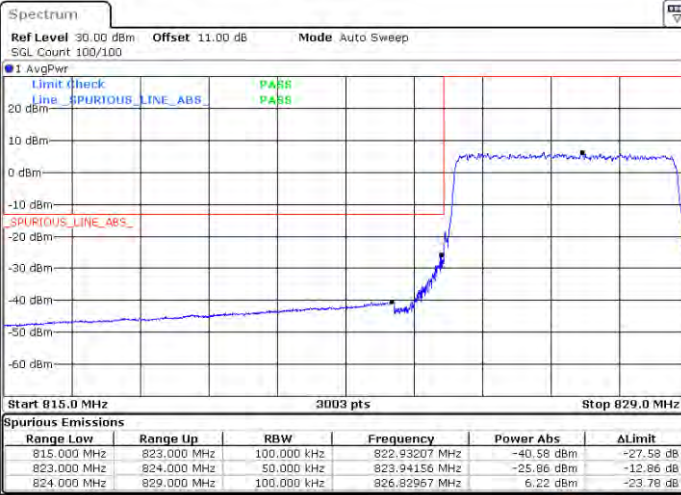


Date: 13 JAN 2024 02:11:47



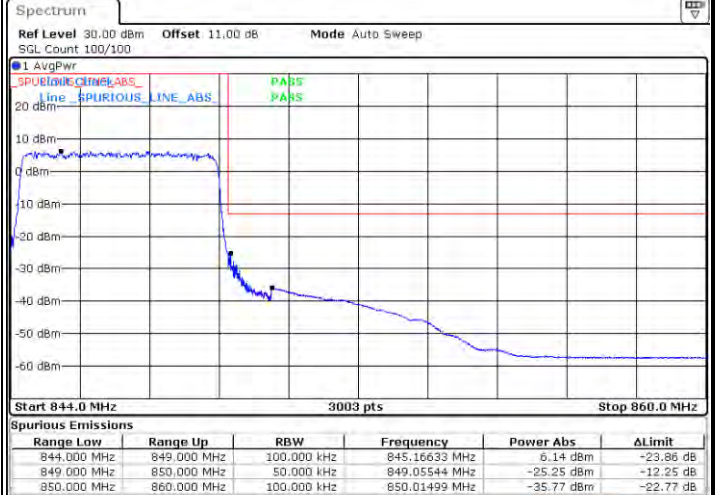
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:09:41

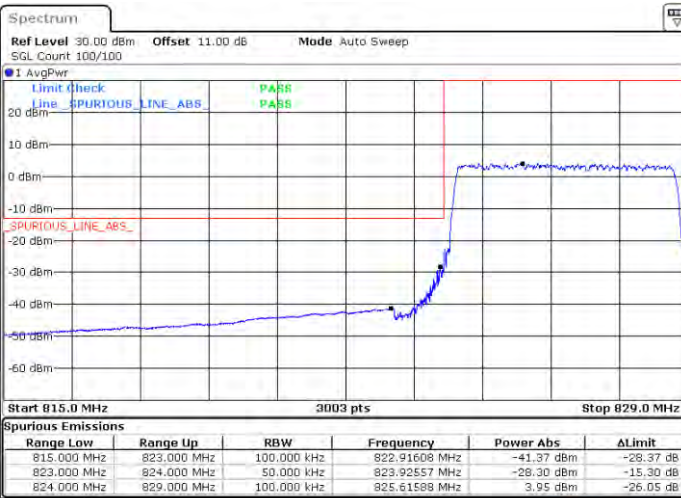
Highest Band Edge / Full RB



Date: 13 JAN 2024 02:12:54

LTE Band 5 / 5MHz / 256QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:06:48

Highest Band Edge / Full RB



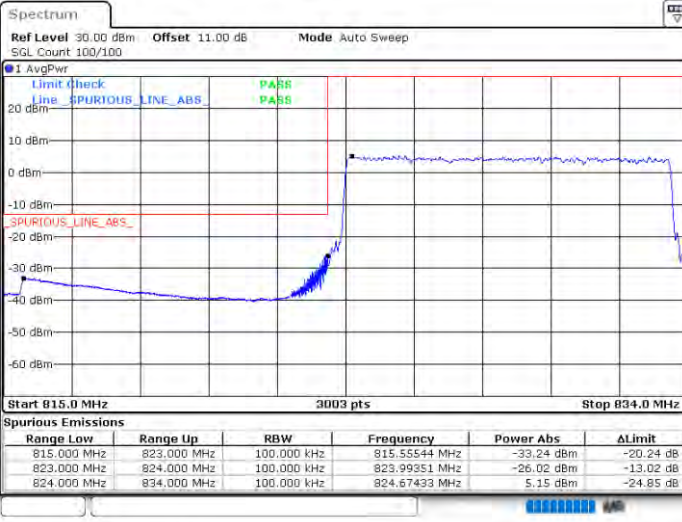
Date: 13 JAN 2024 02:14:01





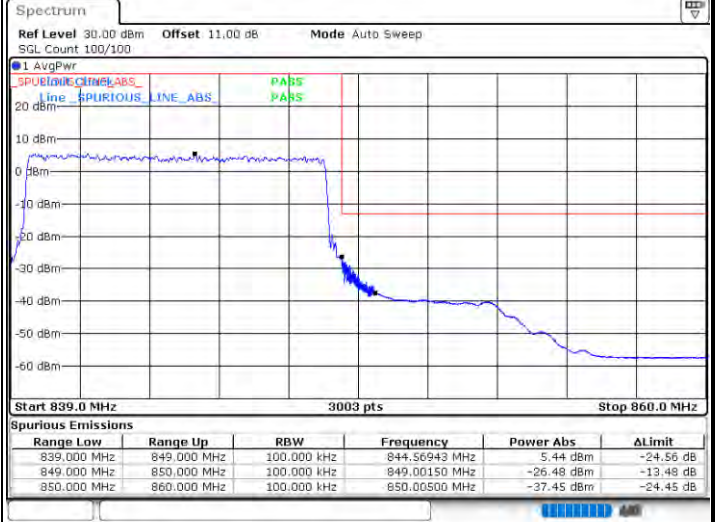
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:17:08

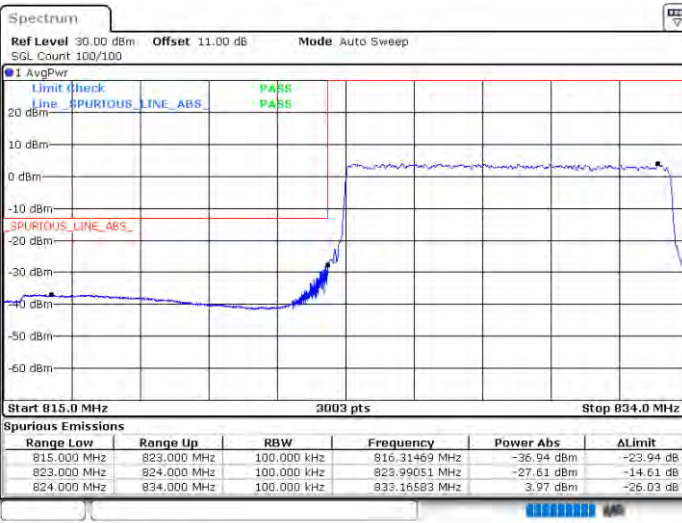
Highest Band Edge / Full RB



Date: 13 JAN 2024 02:25:17

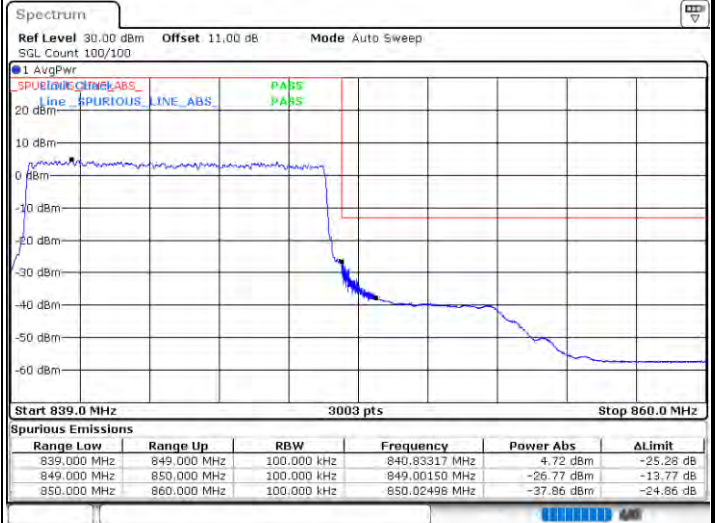
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:18:16

Highest Band Edge / Full RB

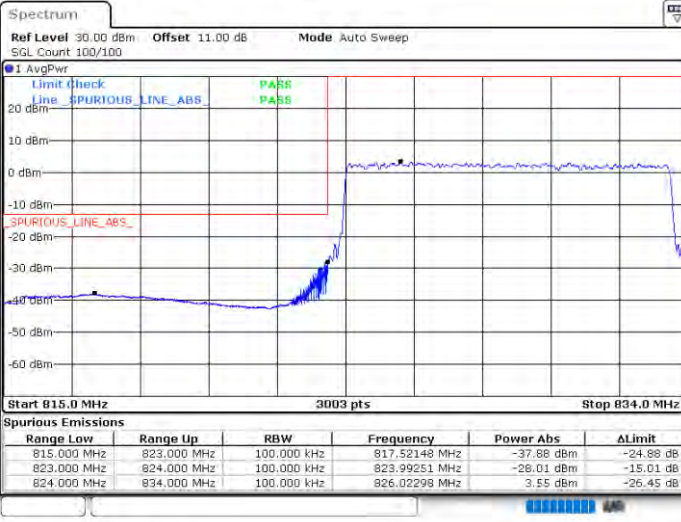


Date: 13 JAN 2024 02:26:25



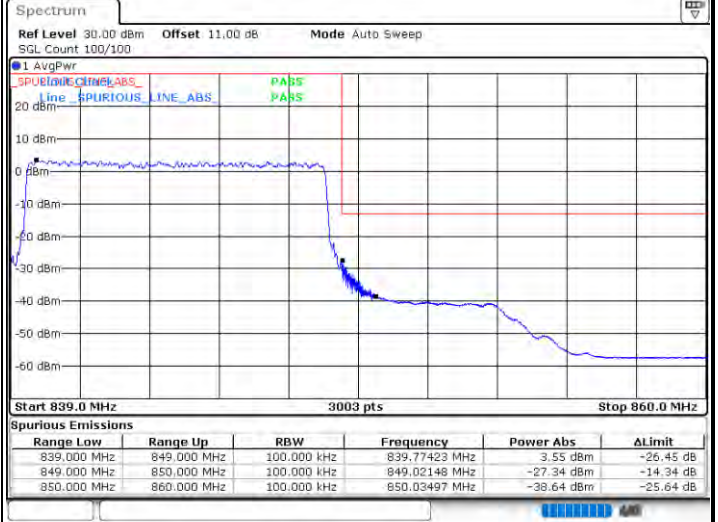
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:19:23

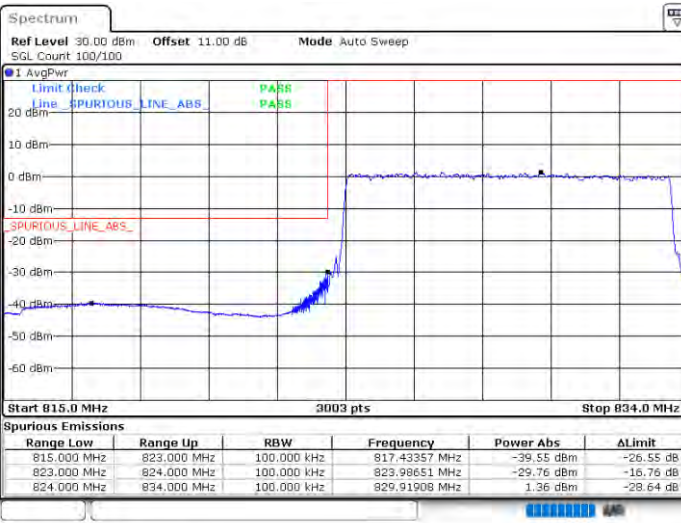
Highest Band Edge / Full RB



Date: 13 JAN 2024 02:27:32

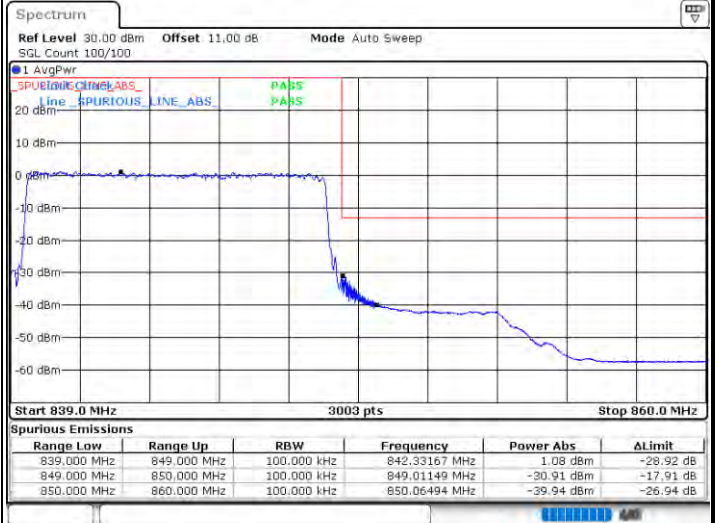
LTE Band 5 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 13 JAN 2024 02:20:10

Highest Band Edge / Full RB



Date: 13 JAN 2024 02:28:40

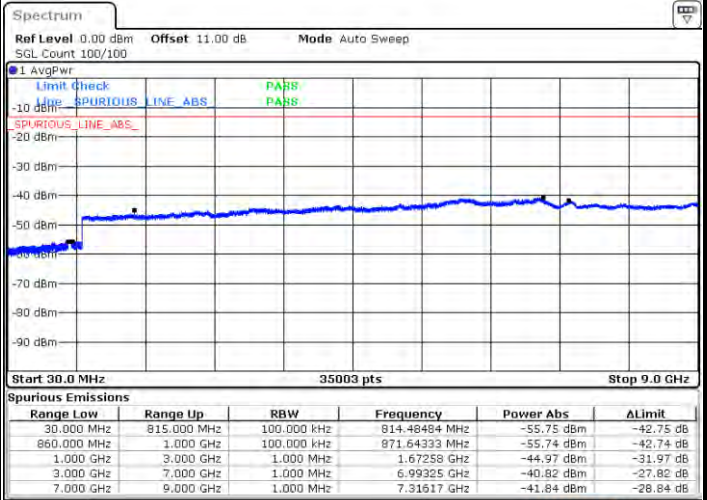
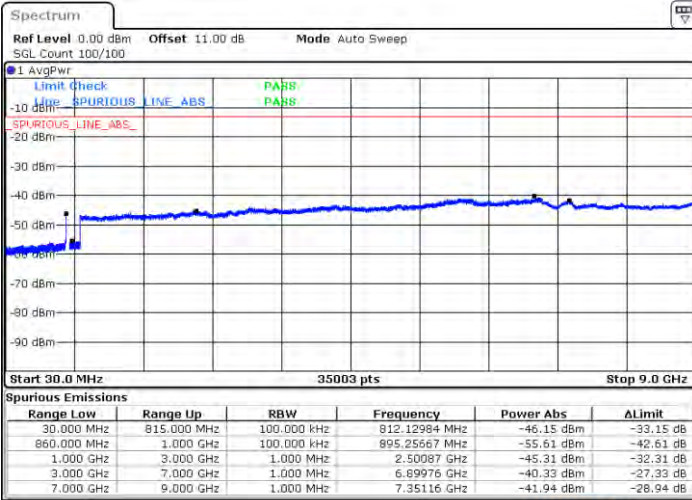


# Conducted Spurious Emission

## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK

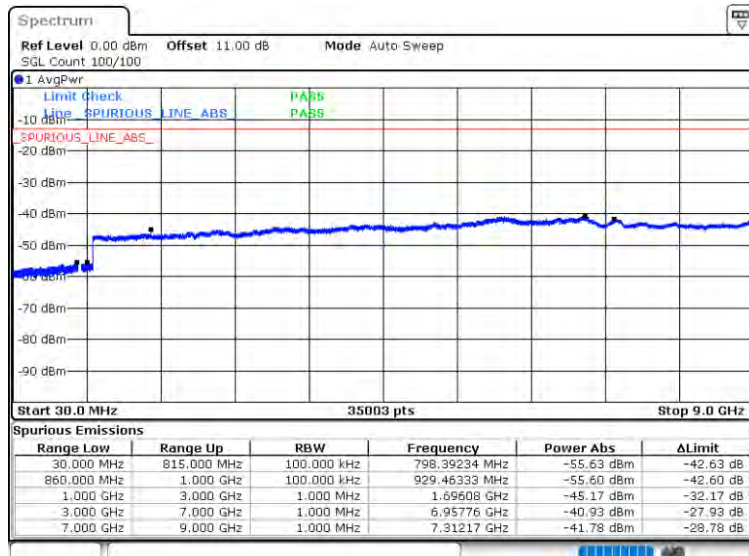
### Middle Channel / QPSK



Date: 13.JAN.2024 01:27:49

Date: 13.JAN.2024 01:33:35

### Highest Channel / QPSK

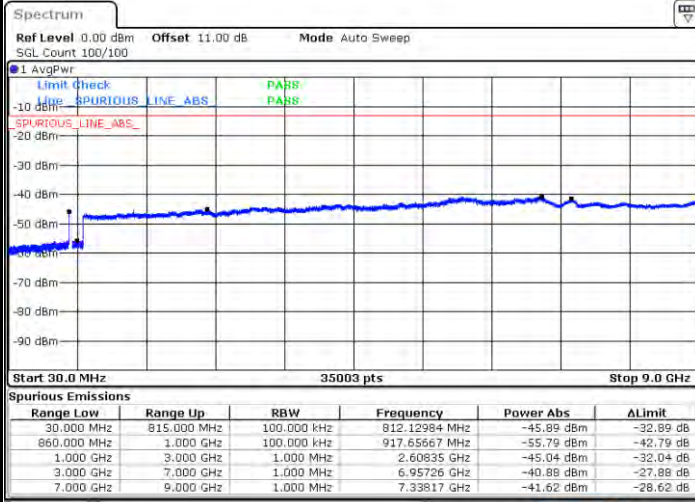


Date: 13.JAN.2024 01:46:38

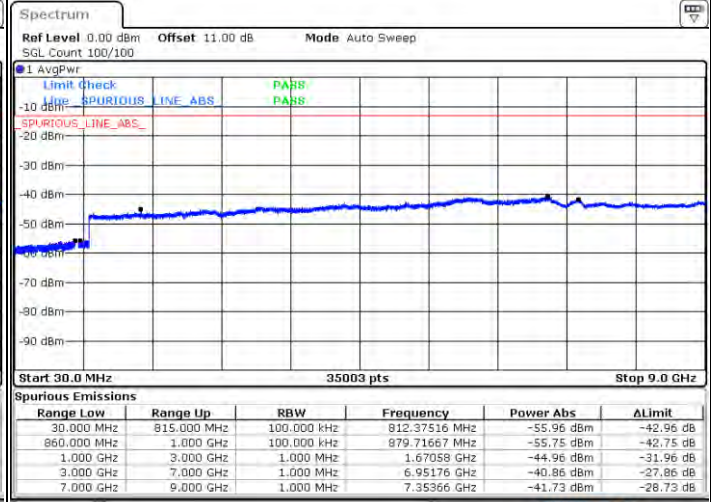


LTE Band 5 / 3MHz

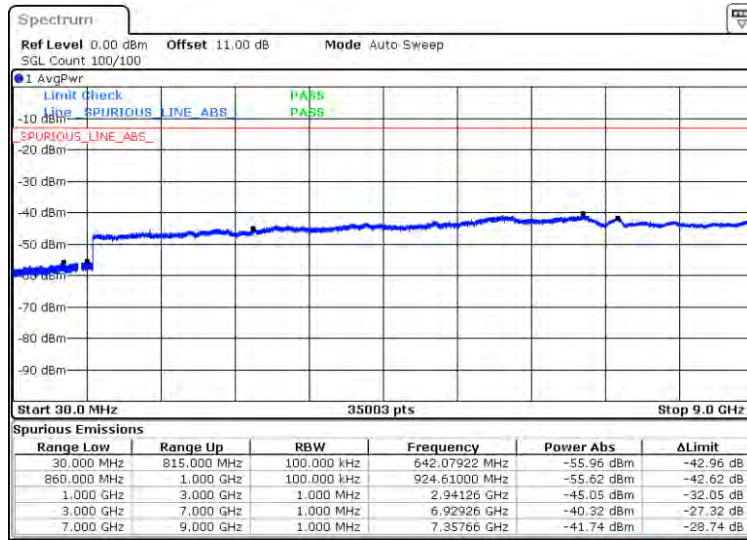
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

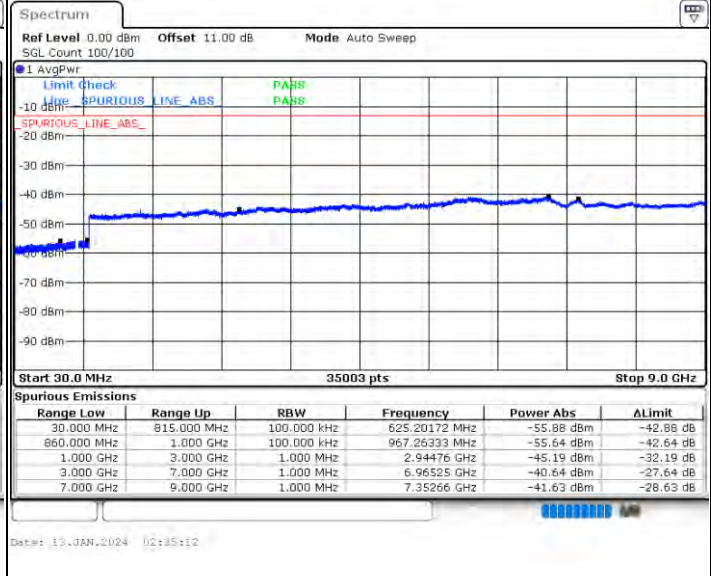
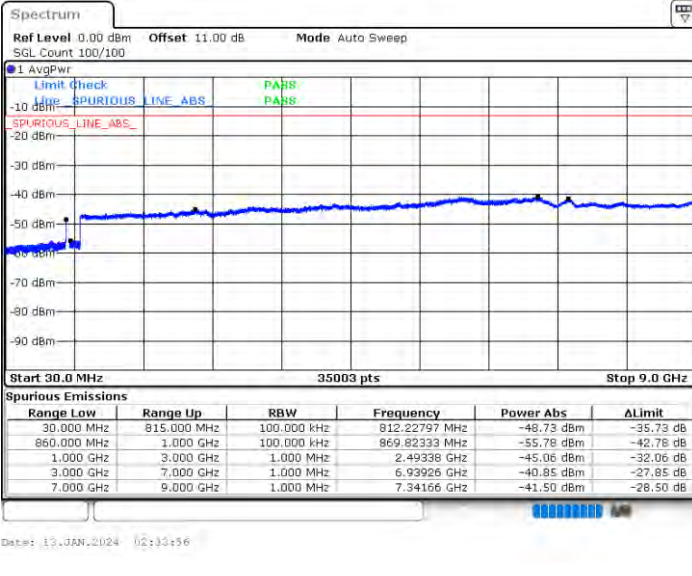




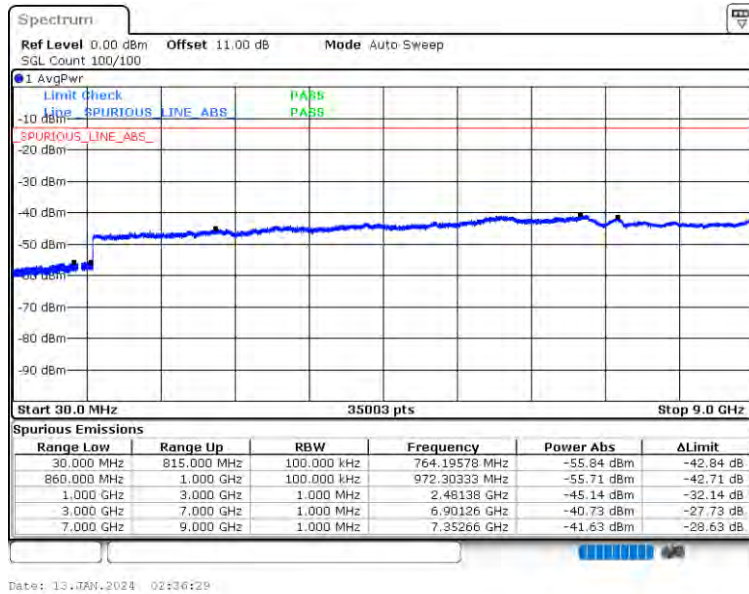
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



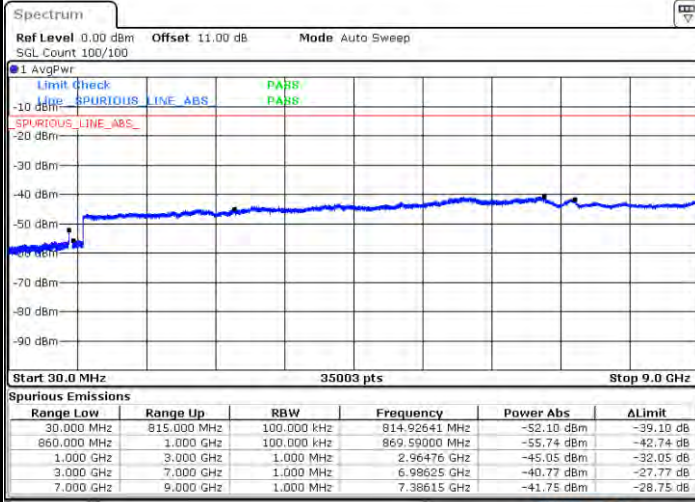
Highest Channel / QPSK





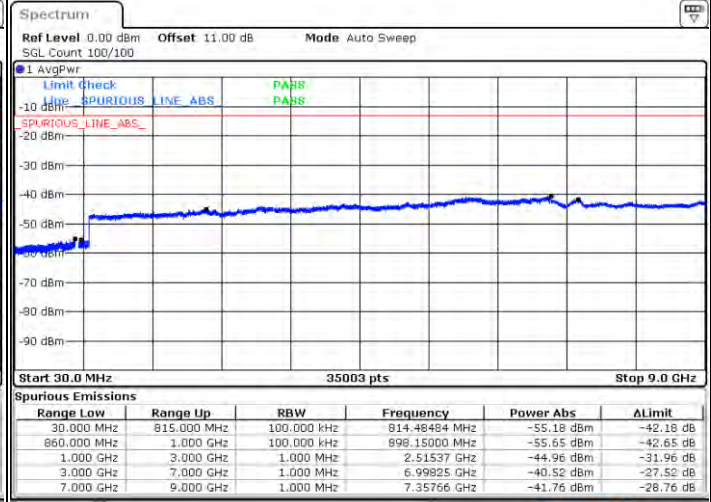
LTE Band 5 / 10MHz

Lowest Channel / QPSK



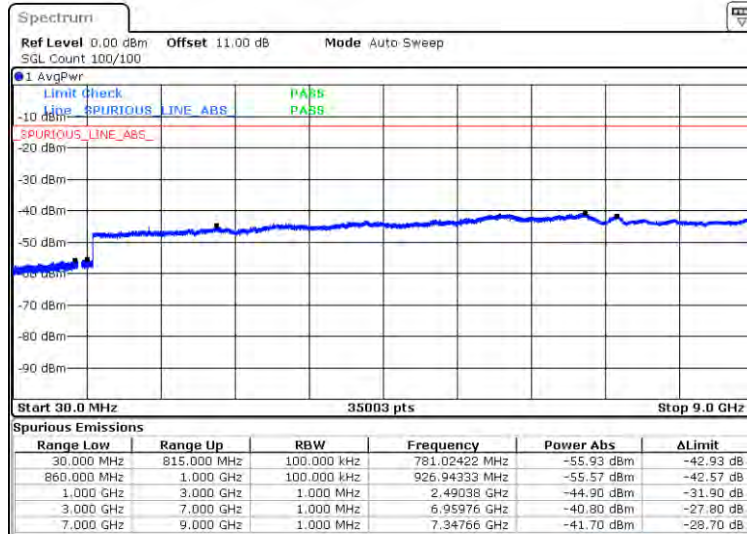
Date: 13.JAN.2024 02:37:51

Middle Channel / QPSK



Date: 13.JAN.2024 02:39:07

Highest Channel / QPSK



Date: 13.JAN.2024 02:40:23



### Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0088	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0079	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0115	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0166	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0115	

**Note:**

- 1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 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	8.19	8.27	14.71
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.98	19.94	-

Mode	LTE Band 5B : 26dB BW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.10	8.08	14.62
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.77	19.78	-

Mode	LTE Band 5B : 26dB BW(MHz)		
64QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.16	8.26	14.68
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.77	19.62	-

Mode	LTE Band 5B : 26dB BW(MHz)		
256QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.15	8.26	14.59
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.74	19.82	-

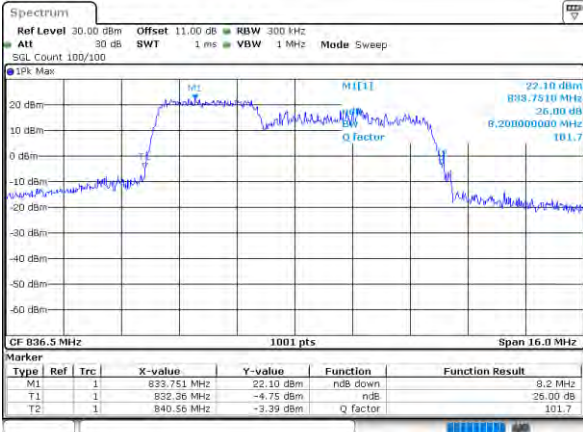




LTE Band 5B

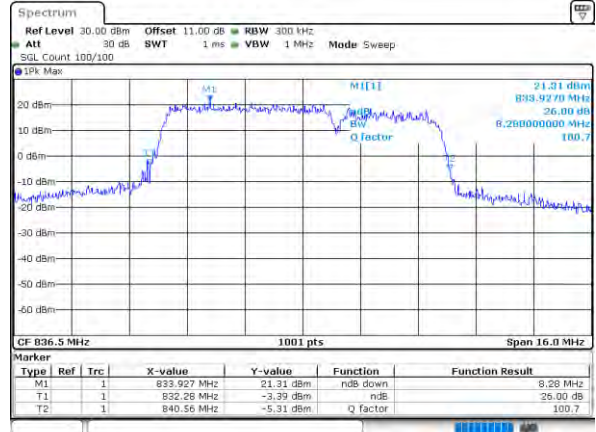
QPSK

Middle Channel / 3MHz+5MHz



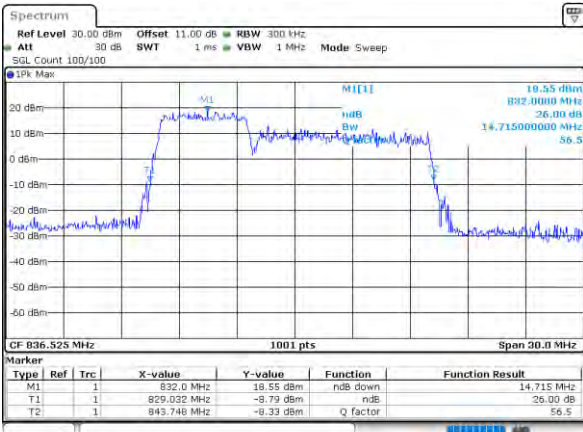
Date: 13\_JAN\_2024 14:01:37

Middle Channel / 5MHz+3MHz



Date: 13\_JAN\_2024 19:04:29

Middle Channel / 5MHz+10MHz



Date: 13\_JAN\_2024 19:48:06

Middle Channel / 10MHz+5MHz



Date: 13\_JAN\_2024 20:24:04

Middle Channel / 10MHz+10MHz



Date: 13\_JAN\_2024 22:49:20

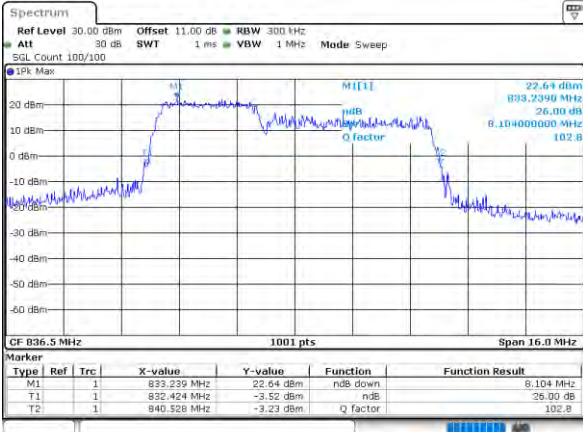
N/A



LTE Band 5B

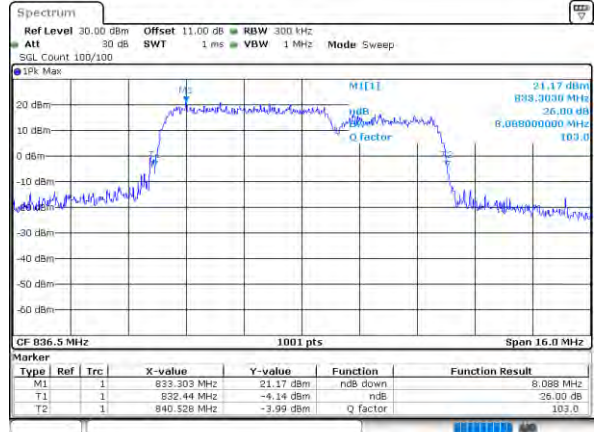
16QAM

Middle Channel / 3MHz+5MHz



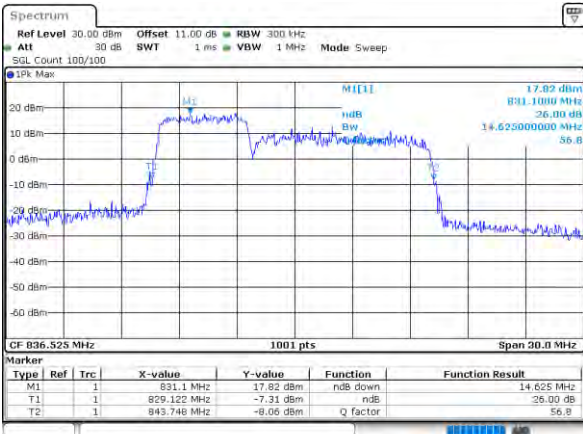
Date: 13\_JAN\_2024 13:01:03

Middle Channel / 5MHz+3MHz



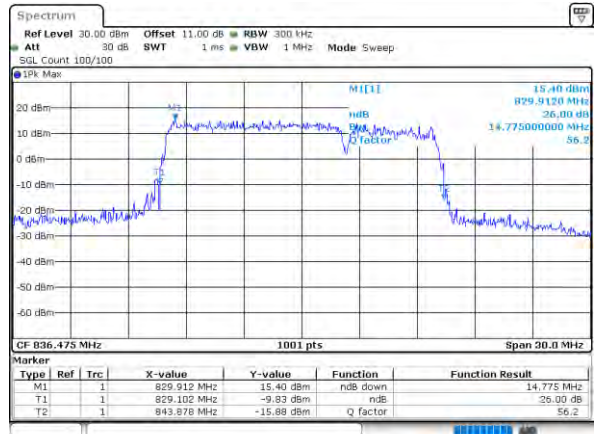
Date: 13\_JAN\_2024 13:03:53

Middle Channel / 5MHz+10MHz



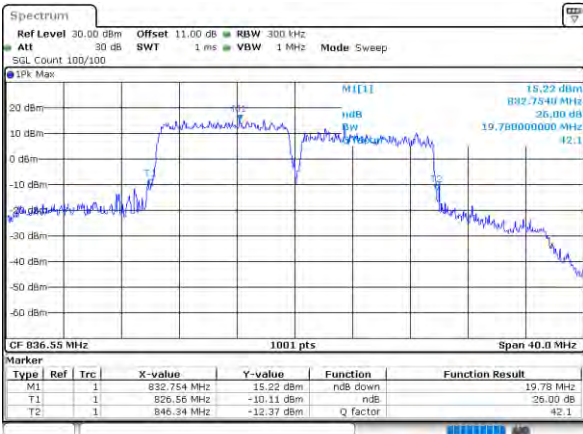
Date: 13\_JAN\_2024 13:47:31

Middle Channel / 10MHz+5MHz



Date: 13\_JAN\_2024 00:33:23

Middle Channel / 10MHz+10MHz



Date: 13\_JAN\_2024 02:39:29

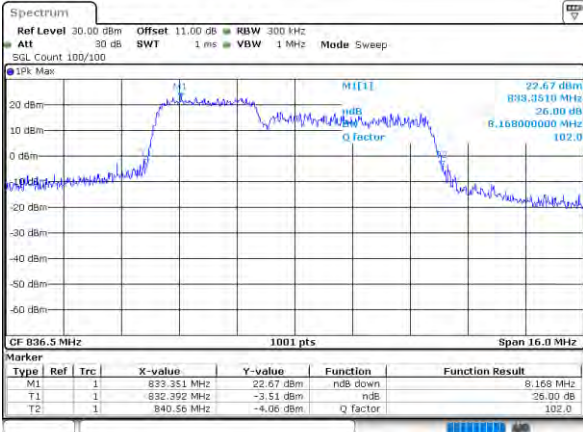
N/A



LTE Band 5B

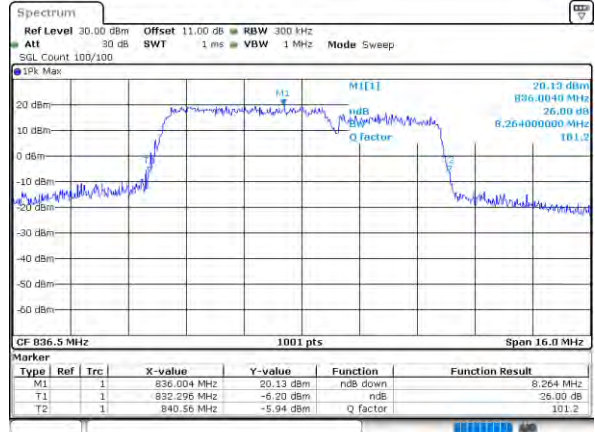
64QAM

Middle Channel / 3MHz+5MHz



Date: 13\_JAN\_2024 14:09:26

Middle Channel / 5MHz+3MHz



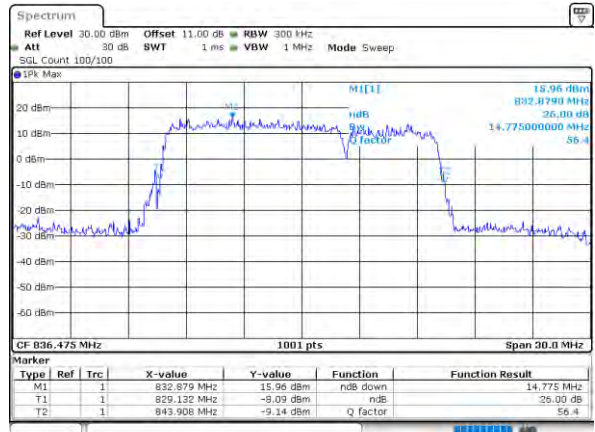
Date: 13\_JAN\_2024 14:03:18

Middle Channel / 5MHz+10MHz



Date: 13\_JAN\_2024 14:46:56

Middle Channel / 10MHz+5MHz



Date: 13\_JAN\_2024 00:22:54

Middle Channel / 10MHz+10MHz



Date: 13\_JAN\_2024 02:43:46

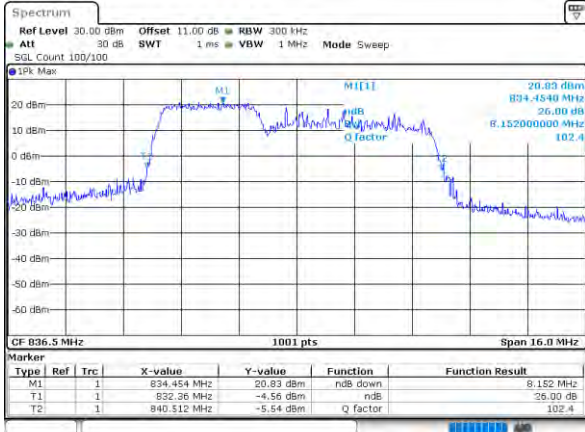
N/A



LTE Band 5B

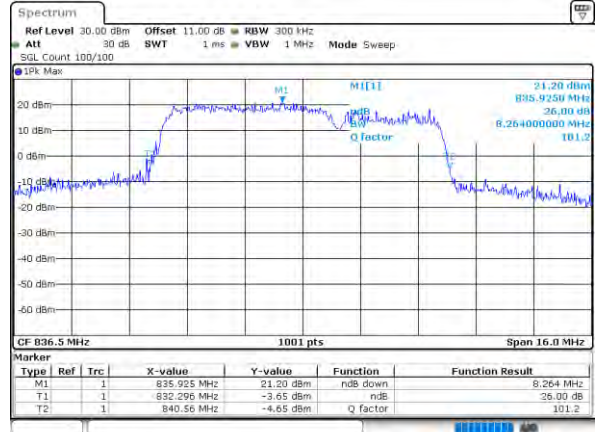
256QAM

Middle Channel / 3MHz+5MHz



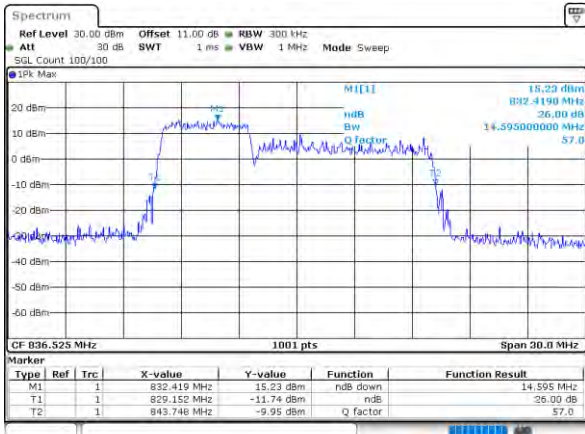
Date: 19\_JAN.2024 22:14:03

Middle Channel / 5MHz+3MHz



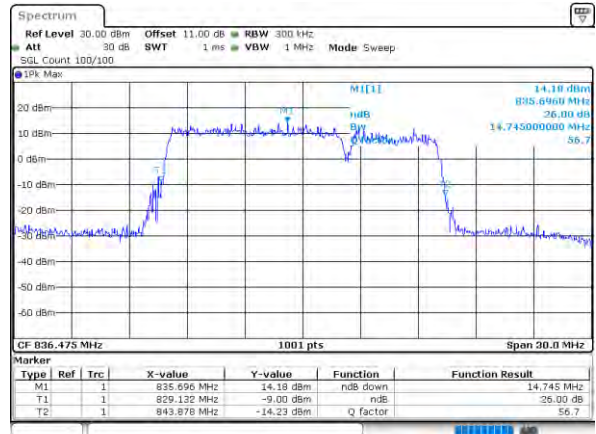
Date: 19\_JAN.2024 22:10:14

Middle Channel / 5MHz+10MHz



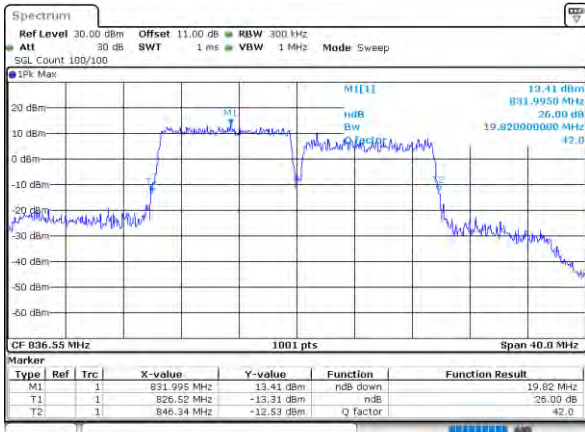
Date: 19\_JAN.2024 22:11:04

Middle Channel / 10MHz+5MHz



Date: 19\_JAN.2024 22:11:05

Middle Channel / 10MHz+10MHz



Date: 19\_JAN.2024 22:12:24

N/A



### Occupied Bandwidth

Mode	LTE Band 5B : 99%OBW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.59	7.59	13.81
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.90	18.66	-

Mode	LTE Band 5B : 99%OBW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.52	7.54	13.75
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.87	18.78	-

Mode	LTE Band 5B : 99%OBW(MHz)		
64QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.56	7.60	13.78
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.90	18.74	-

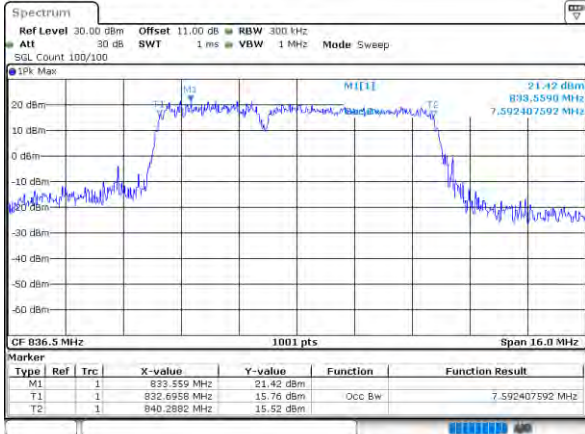
Mode	LTE Band 5B : 99%OBW(MHz)		
254QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.52	7.54	13.78
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.78	18.62	-



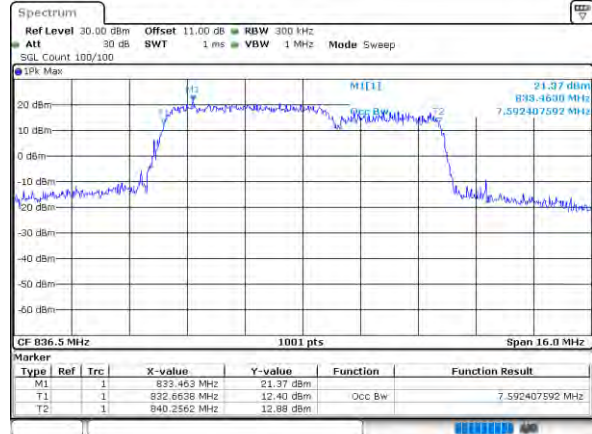
LTE Band 5B

QPSK

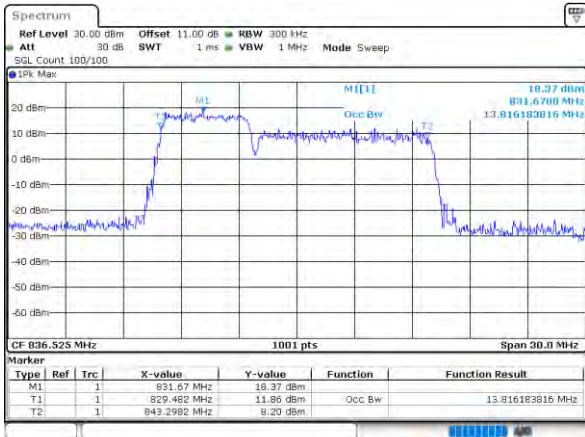
Middle Channel / 3MHz+5MHz



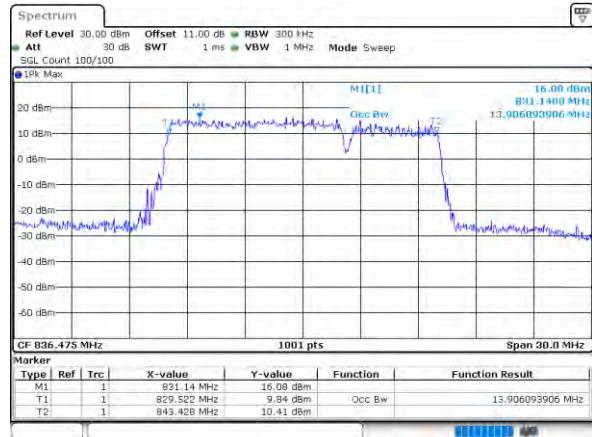
Middle Channel / 5MHz+3MHz



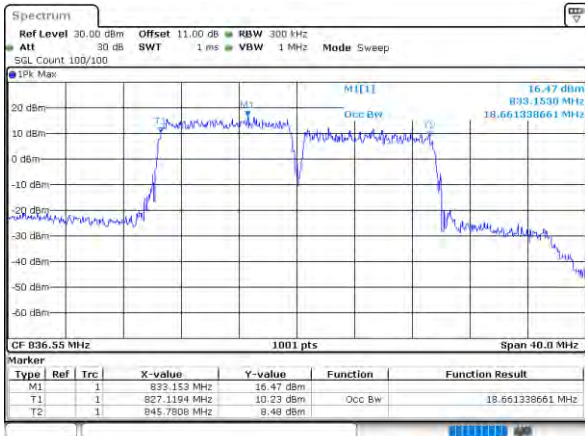
Middle Channel / 5MHz+10MHz



Middle Channel / 10MHz+5MHz



Middle Channel / 10MHz+10MHz



N/A