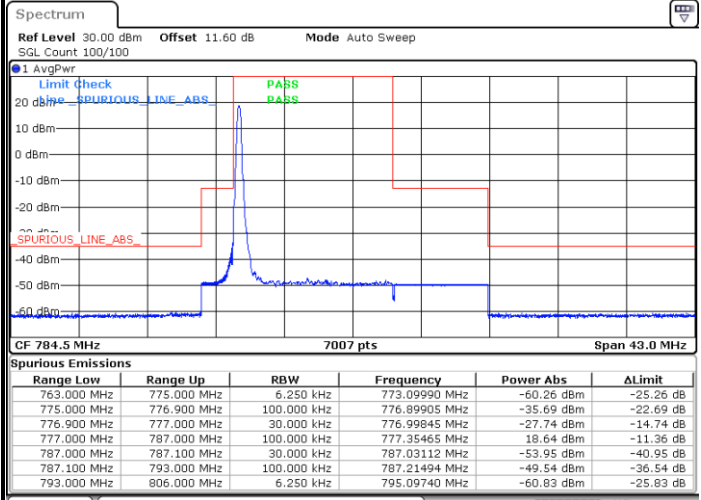




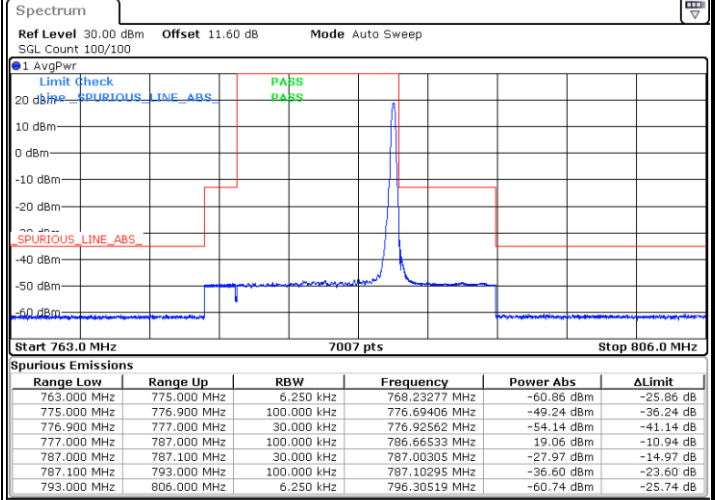
IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



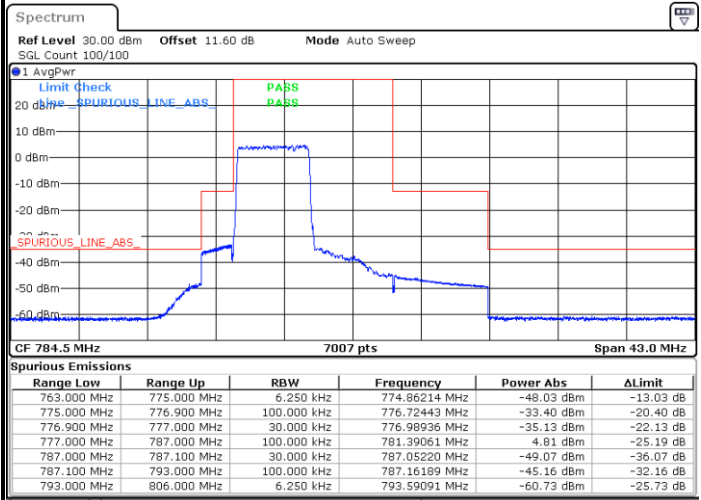
Date: 19.OCT.2023 19:50:20



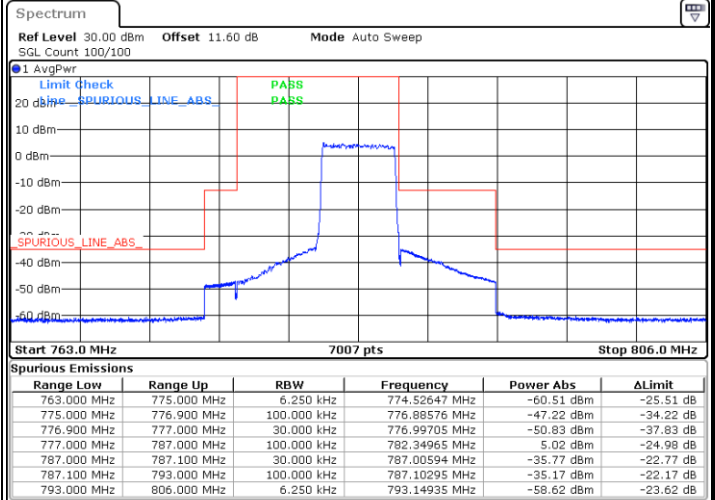
Date: 19.OCT.2023 19:52:26

Lowest Band Edge / Full RB

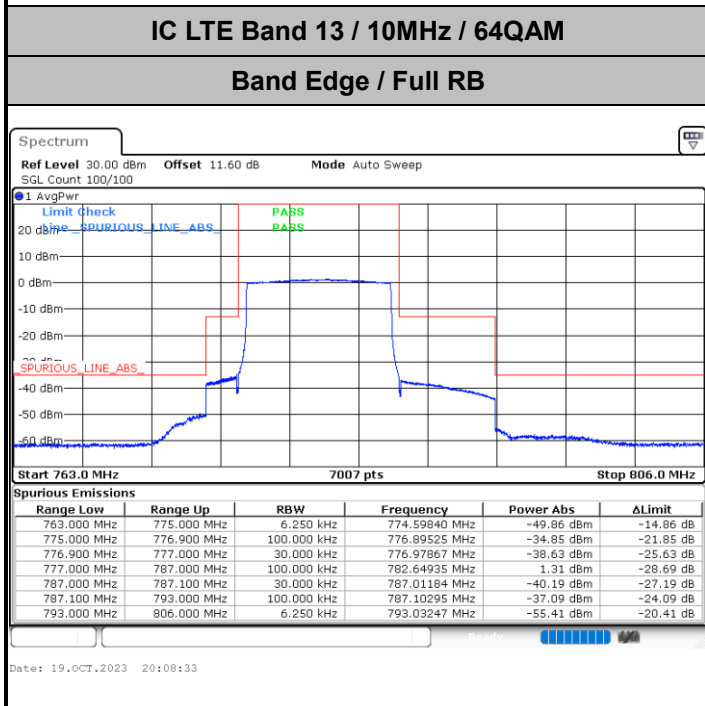
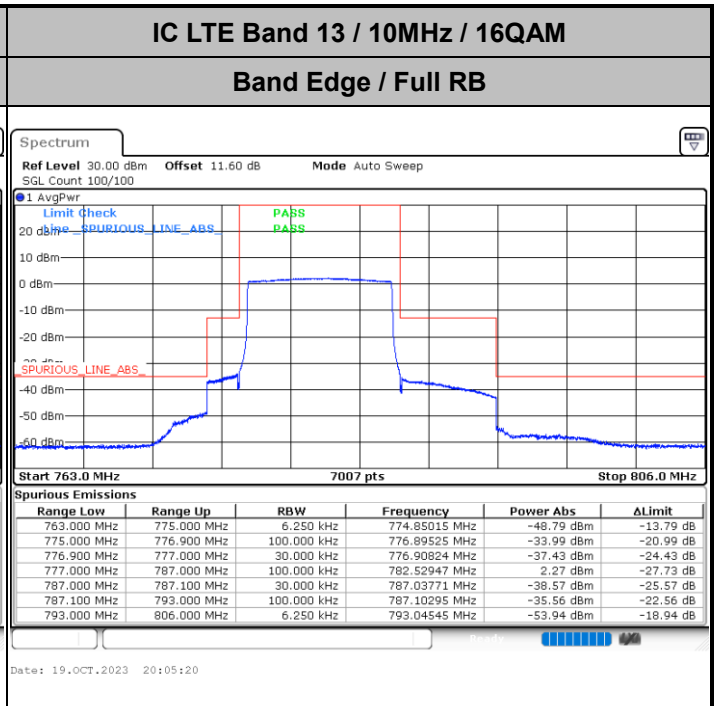
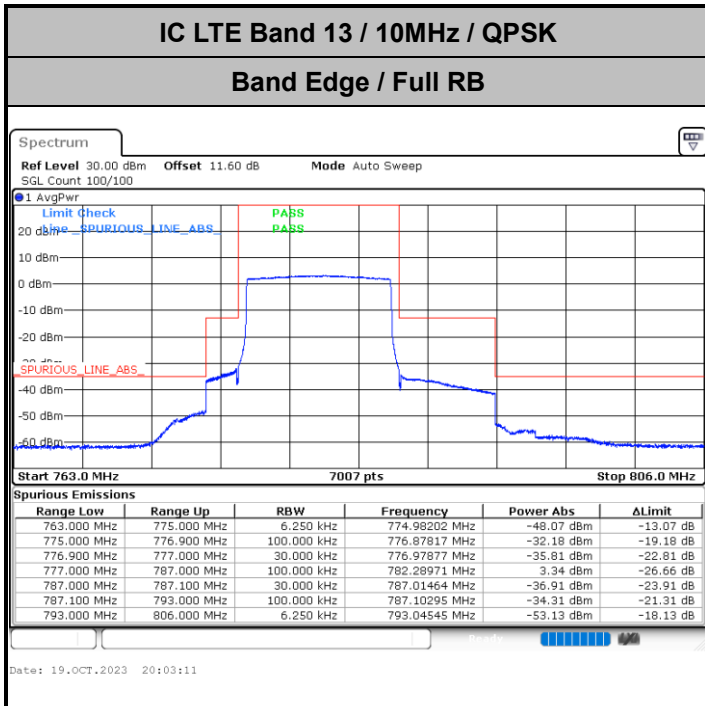
Highest Band Edge / Full RB



Date: 19.OCT.2023 19:49:19



Date: 19.OCT.2023 19:51:26

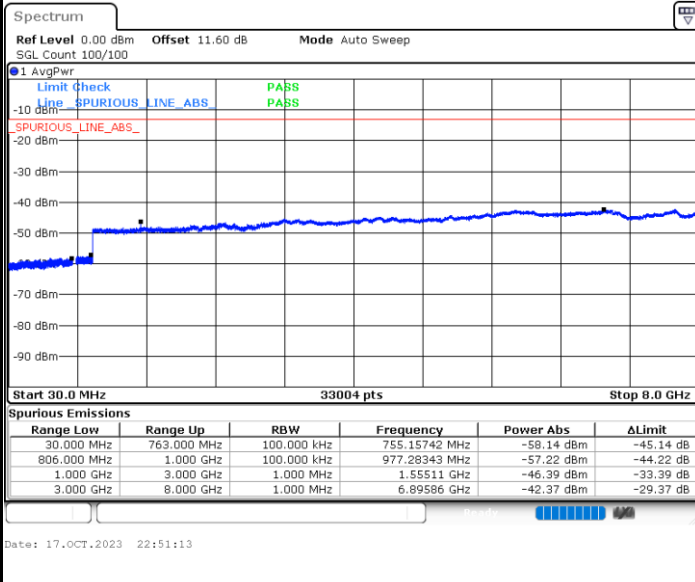




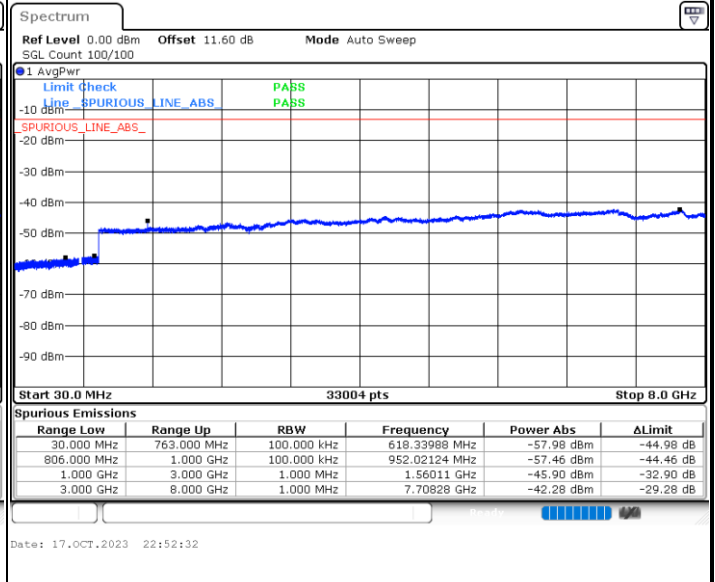
# Conducted Spurious Emission

## LTE Band 13 / 5MHz

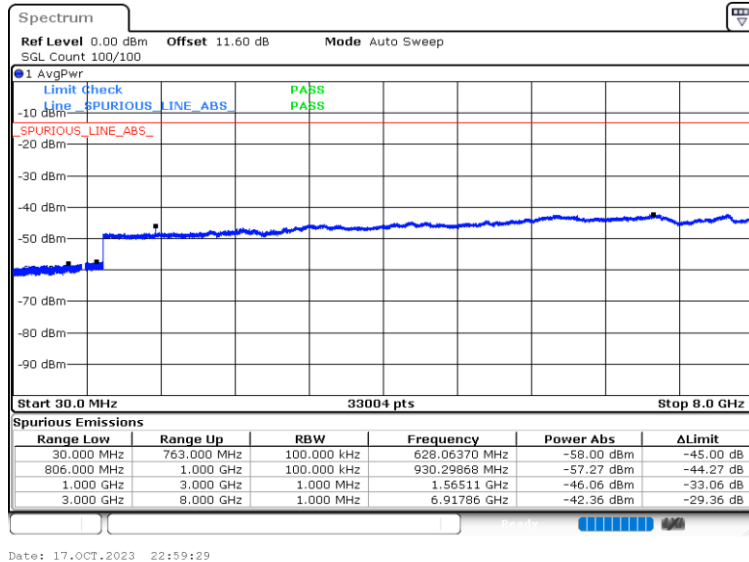
### Lowest Channel / QPSK



### Middle Channel / QPSK



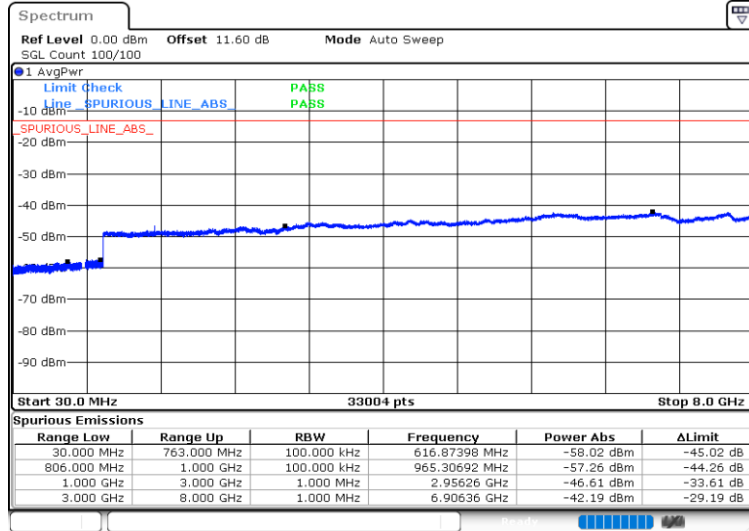
### Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 17.OCT.2023 23:11:41



**Frequency Stability**

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0104	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0081	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0092	
0	Normal Voltage	0.0055	
-10	Normal Voltage	0.0136	
-20	Normal Voltage	0.0157	
-30	Normal Voltage	0.0175	
20	Maximum Voltage	0.0105	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0113	

**Note:**

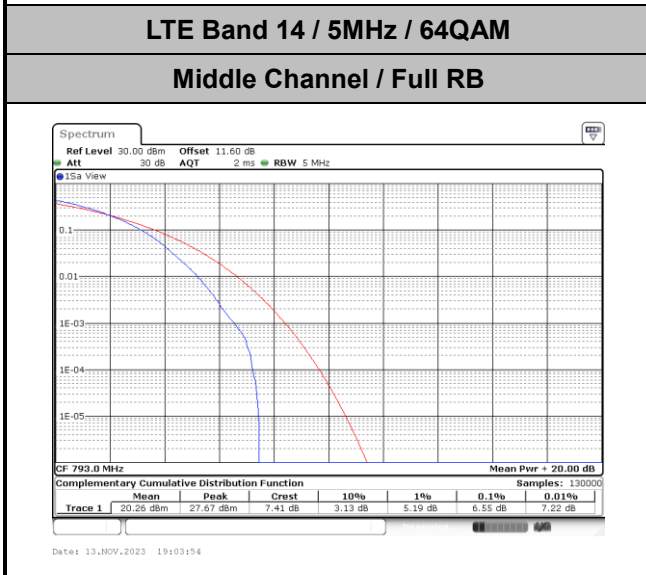
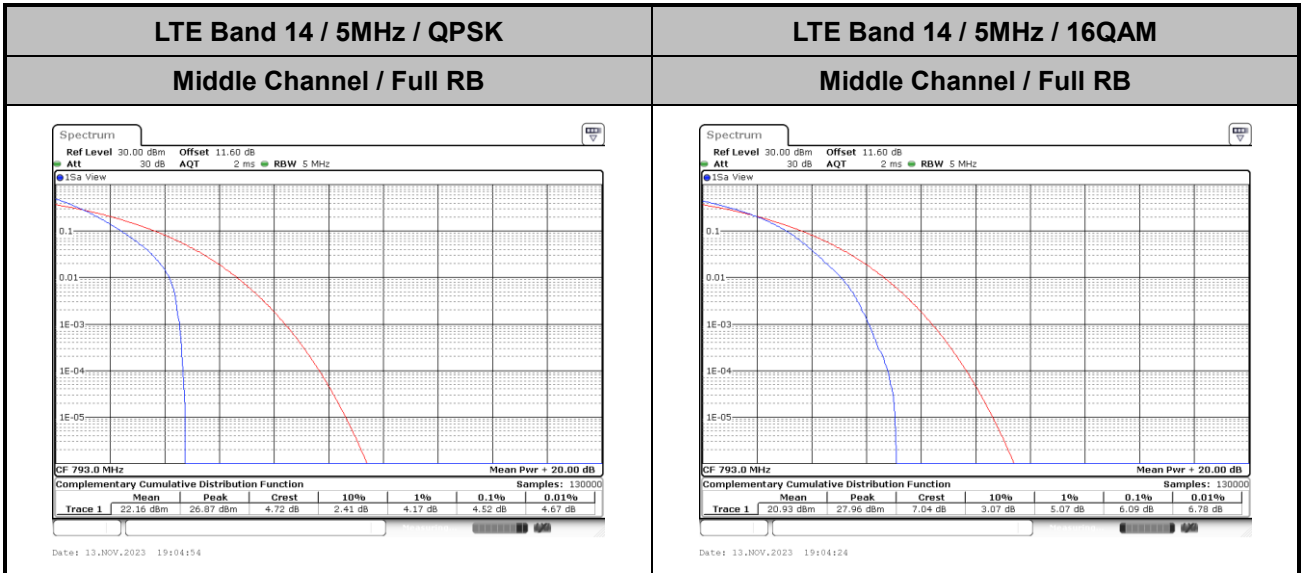
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 14

## Peak-to-Average Ratio

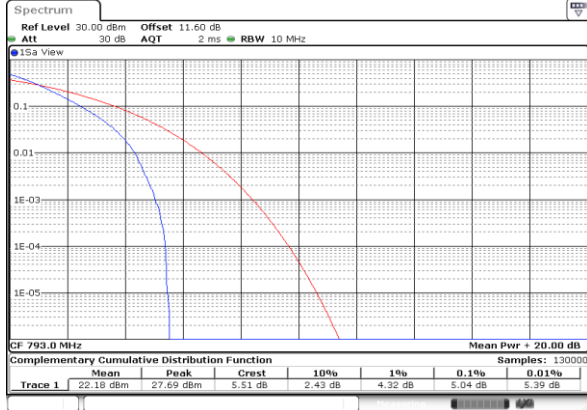
Mode	LTE Band 14 / 5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.52	6.09	6.55	-	PASS
Mode					
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.04	5.54	6.52	-	PASS





LTE Band 14 / 10MHz / QPSK

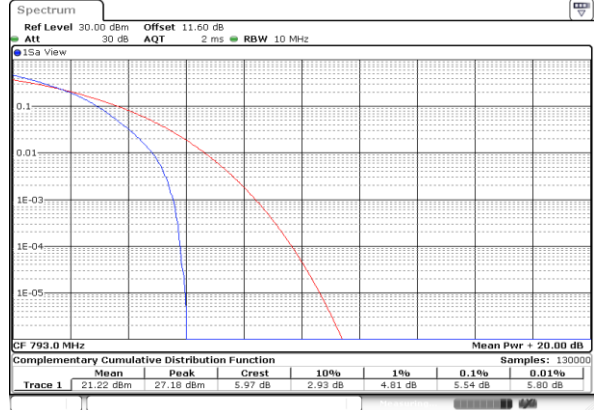
Middle Channel / Full RB



Date: 13.NOV.2023 19:03:18

LTE Band 14 / 10MHz / 16QAM

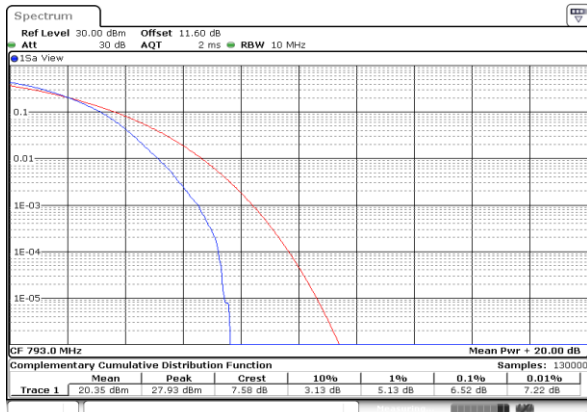
Middle Channel / Full RB



Date: 13.NOV.2023 19:02:48

LTE Band 14 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 13.NOV.2023 19:02:17



**26dB Bandwidth**

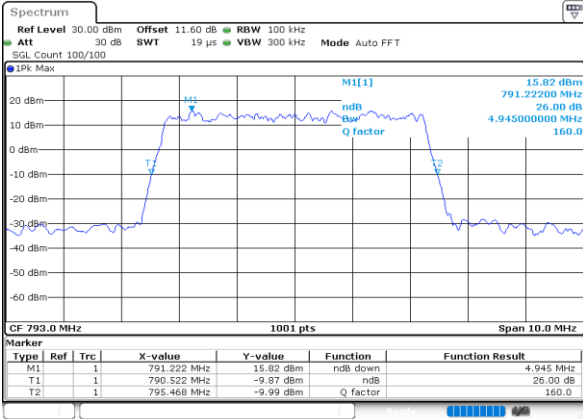
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.81	9.73	9.77	-	-	-	-
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.89	-	9.87	-	-	-	-	-





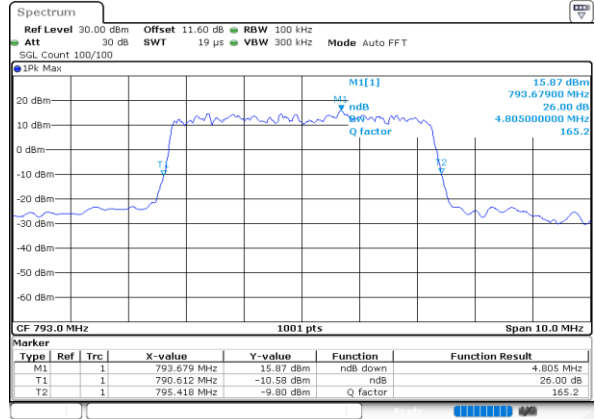
LTE Band 14

Middle Channel / 5MHz / QPSK



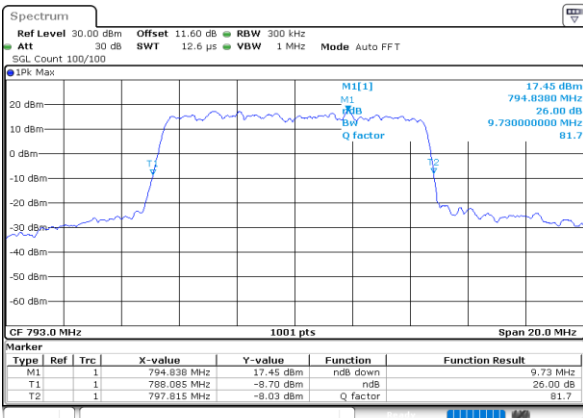
Date: 13.NOV.2023 18:17:11

Middle Channel / 5MHz / 16QAM



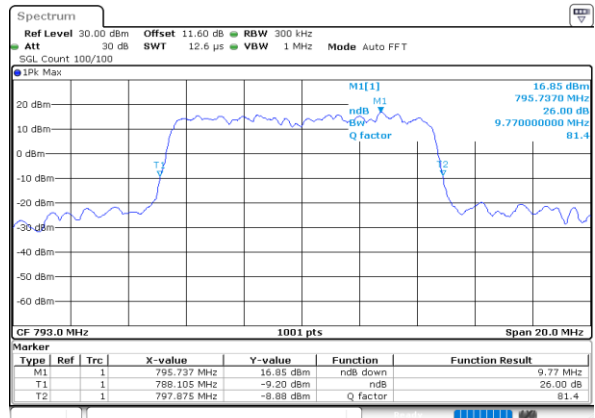
Date: 13.NOV.2023 18:17:40

Middle Channel / 10MHz / QPSK



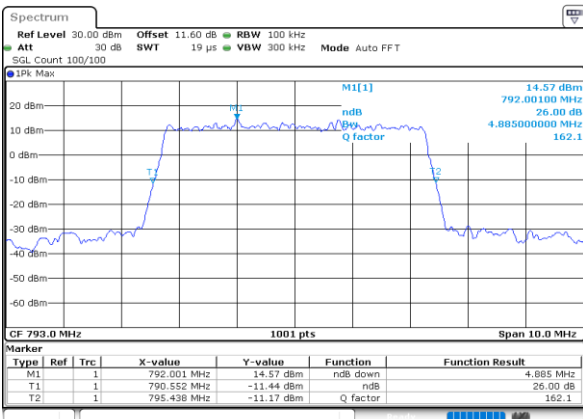
Date: 13.NOV.2023 18:56:00

Middle Channel / 10MHz / 16QAM



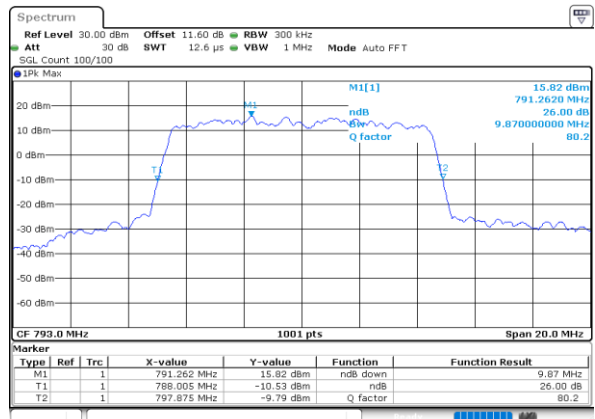
Date: 13.NOV.2023 18:55:31

Middle Channel / 5MHz / 64QAM



Date: 13.NOV.2023 18:26:06

Middle Channel / 10MHz / 64QAM



Date: 13.NOV.2023 18:58:26



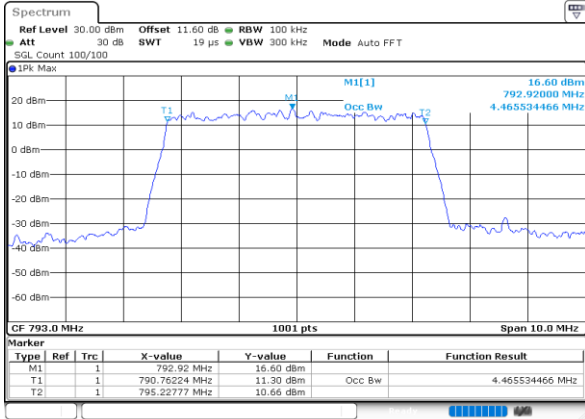
**Occupied Bandwidth**

Mode	LTE Band 14 : 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	-	-	-	-	4.47	4.49	9.03	8.99	-	-	-	-
Mode	LTE Band 14 : 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	-	-	-	-	4.51	-	9.05	-	-	-	-	-



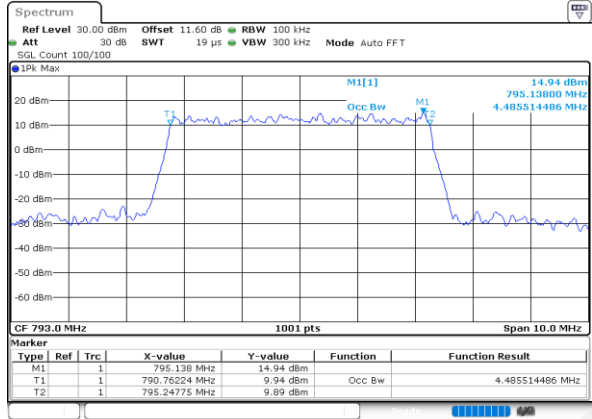
LTE Band 14

Middle Channel / 5MHz / QPSK



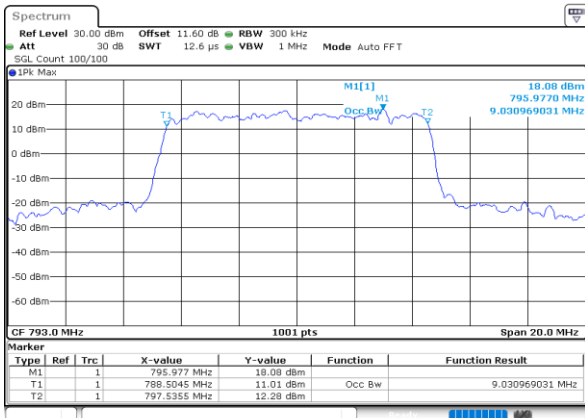
Date: 13.NOV.2023 18:18:23

Middle Channel / 5MHz / 16QAM



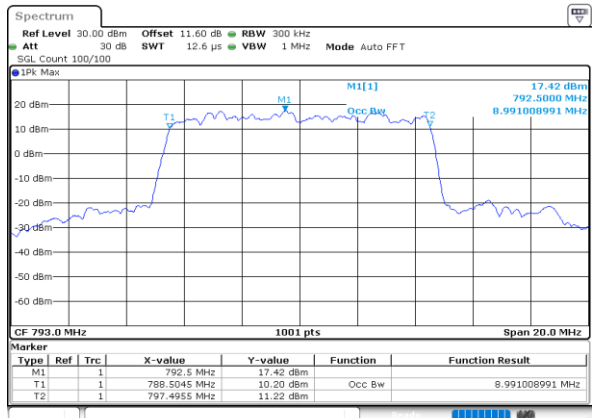
Date: 13.NOV.2023 18:17:54

Middle Channel / 10MHz / QPSK



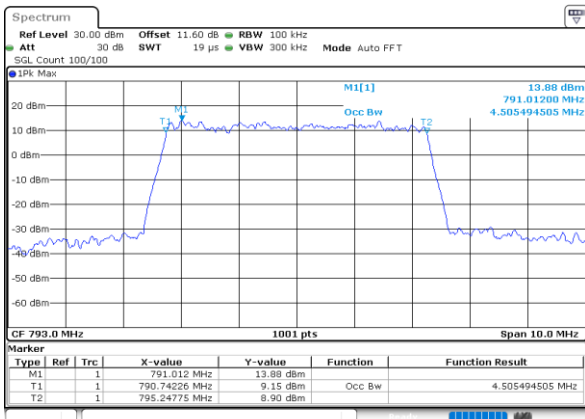
Date: 13.NOV.2023 18:54:40

Middle Channel / 10MHz / 16QAM



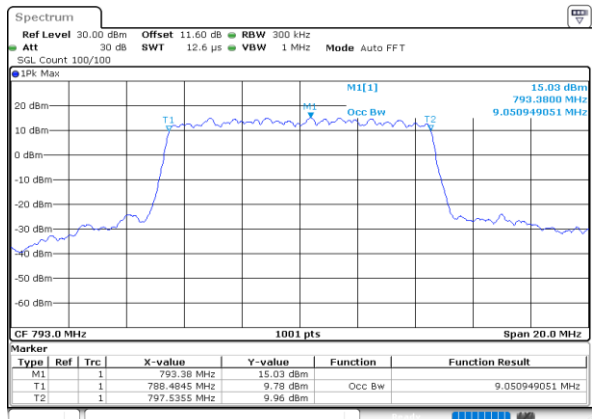
Date: 13.NOV.2023 18:55:17

Middle Channel / 5MHz / 64QAM



Date: 13.NOV.2023 18:26:21

Middle Channel / 10MHz / 64QAM



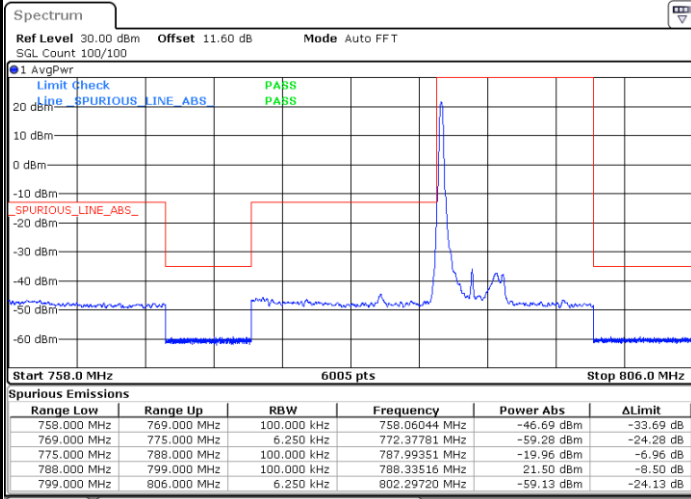
Date: 13.NOV.2023 18:58:12



# Conducted Band Edge

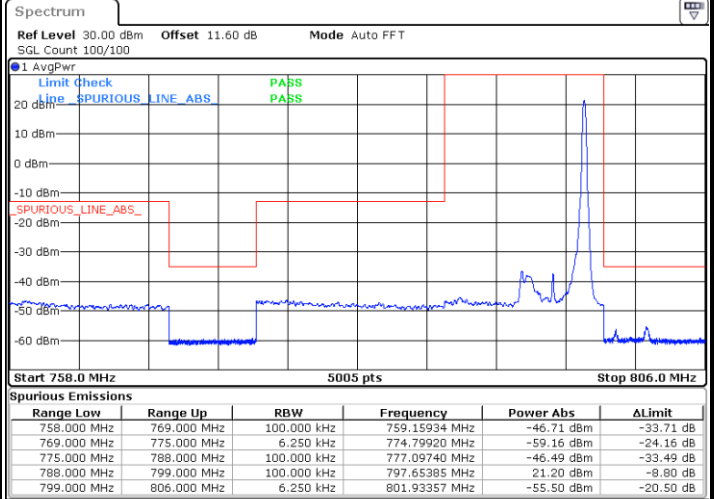
## LTE Band 14 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



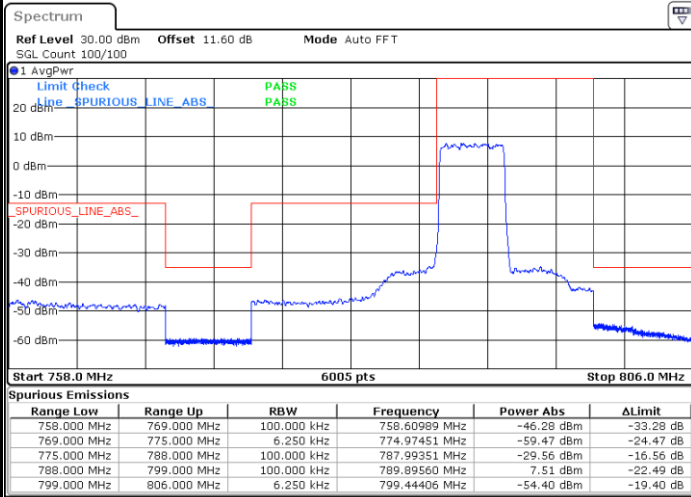
Date: 13.NOV.2023 18:14:20

### Highest Band Edge / 1 RB



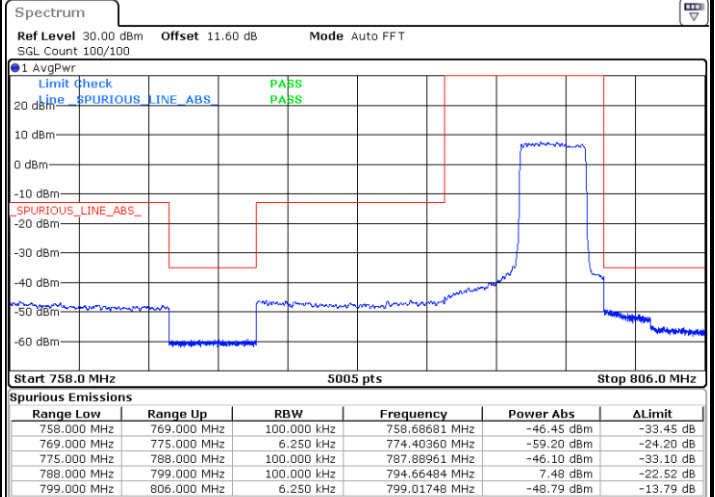
Date: 13.NOV.2023 18:22:19

### Lowest Band Edge / Full RB



Date: 13.NOV.2023 18:11:22

### Highest Band Edge / Full RB

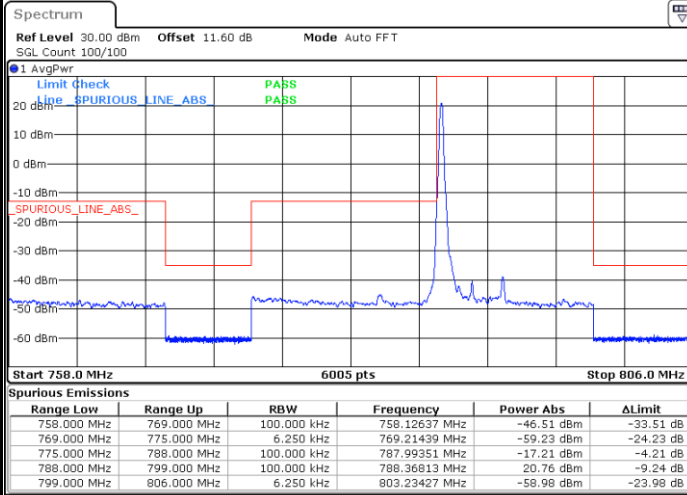


Date: 13.NOV.2023 18:19:21



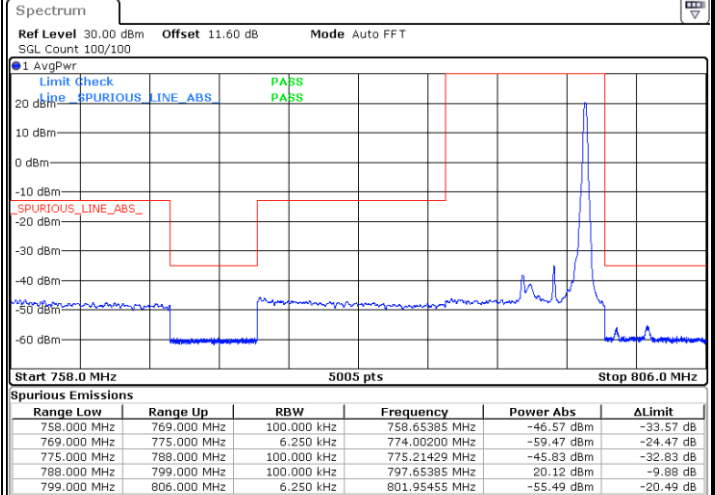
LTE Band 14 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



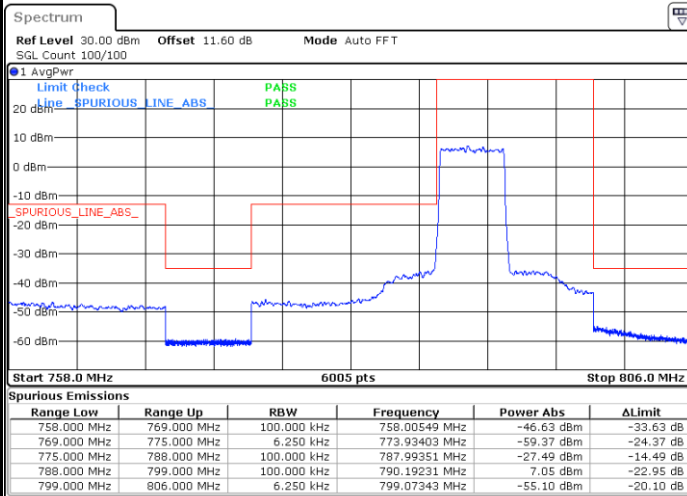
Date: 13.NOV.2023 18:13:21

Highest Band Edge / 1 RB



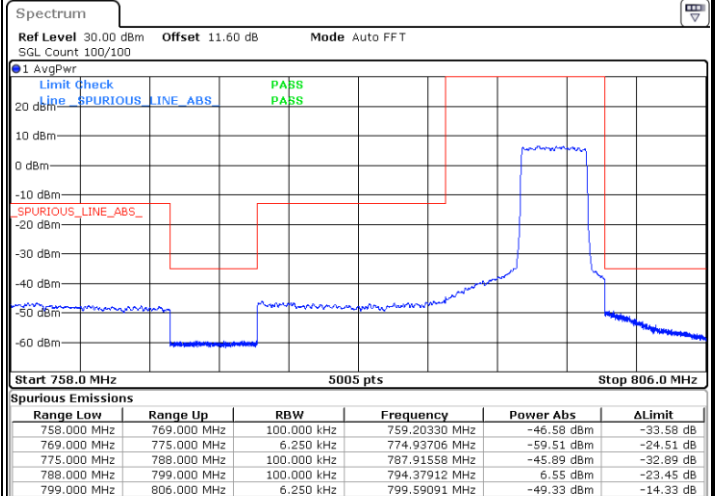
Date: 13.NOV.2023 18:21:19

Lowest Band Edge / Full RB



Date: 13.NOV.2023 18:12:22

Highest Band Edge / Full RB

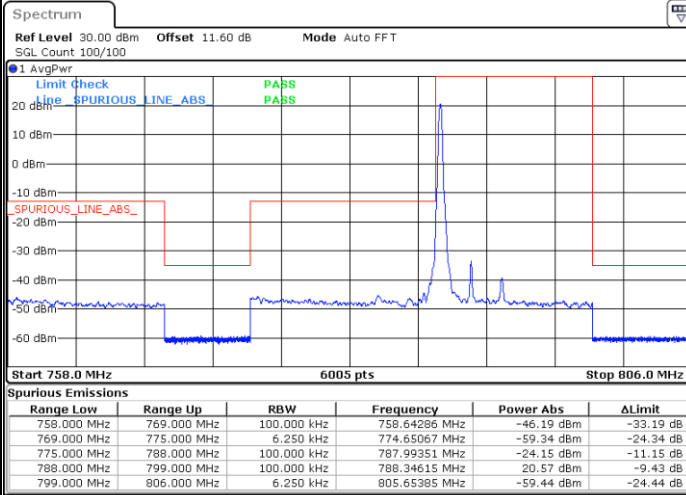


Date: 13.NOV.2023 18:20:20



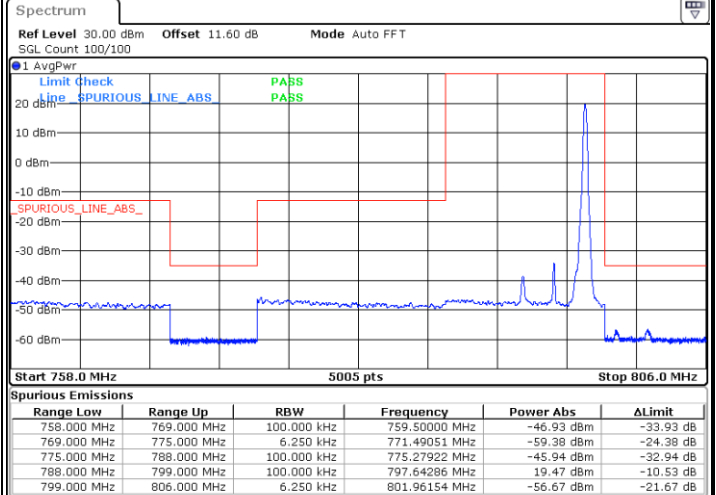
LTE Band 14 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



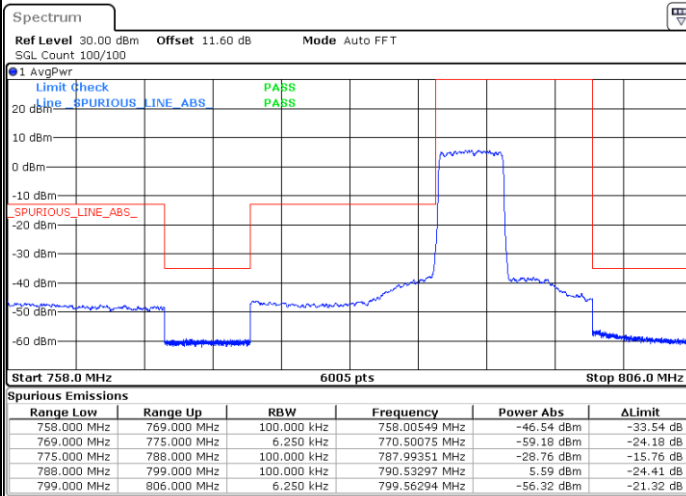
Date: 13.NOV.2023 18:25:36

Highest Band Edge / 1 RB



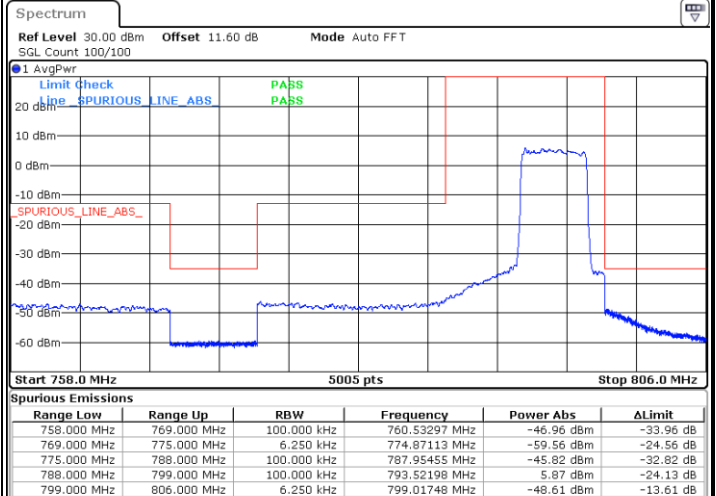
Date: 13.NOV.2023 18:28:18

Lowest Band Edge / Full RB

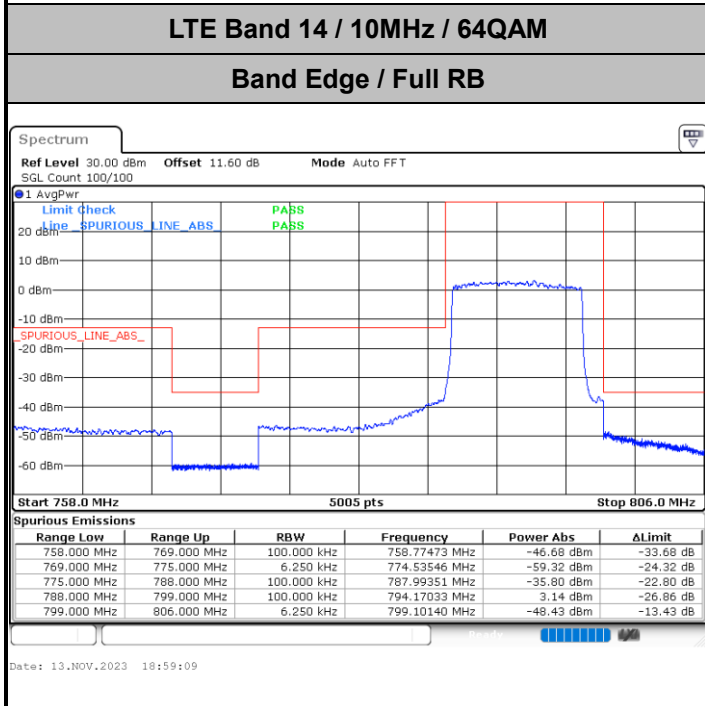
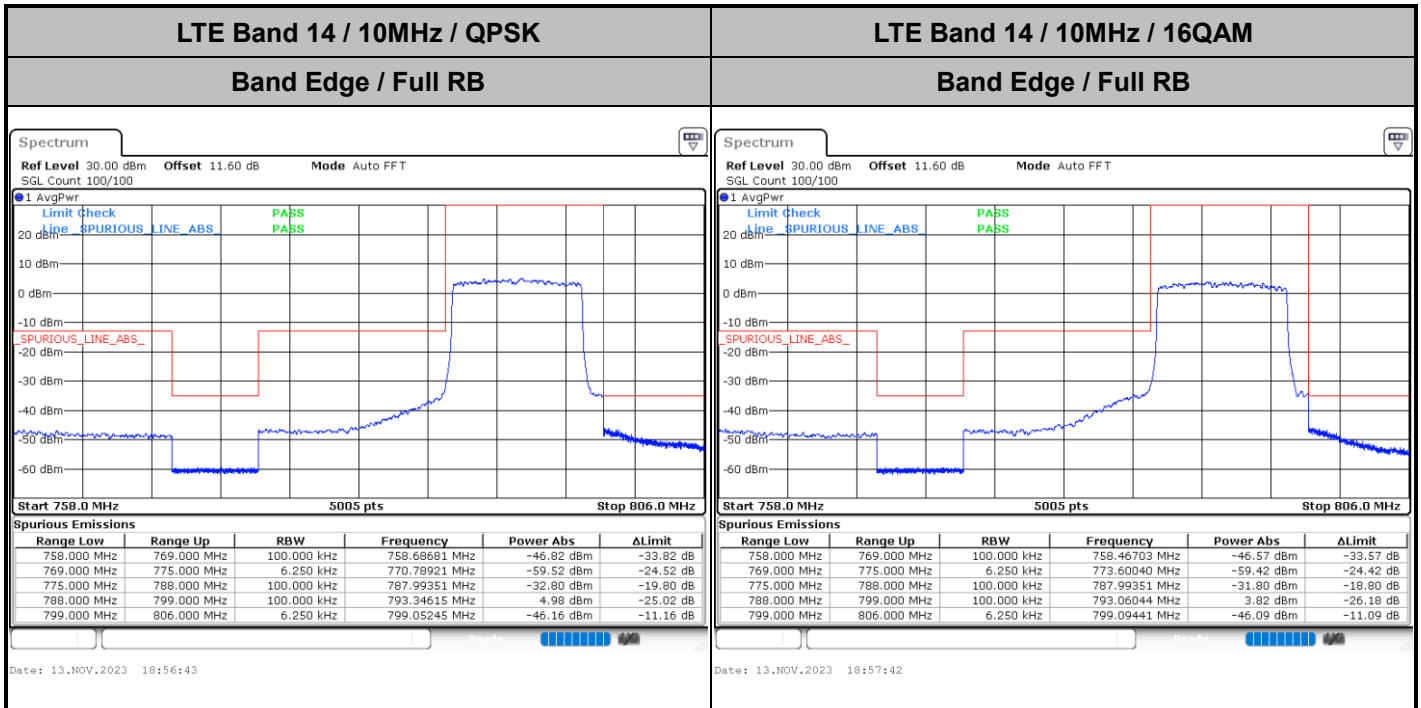


Date: 13.NOV.2023 18:24:37

Highest Band Edge / Full RB

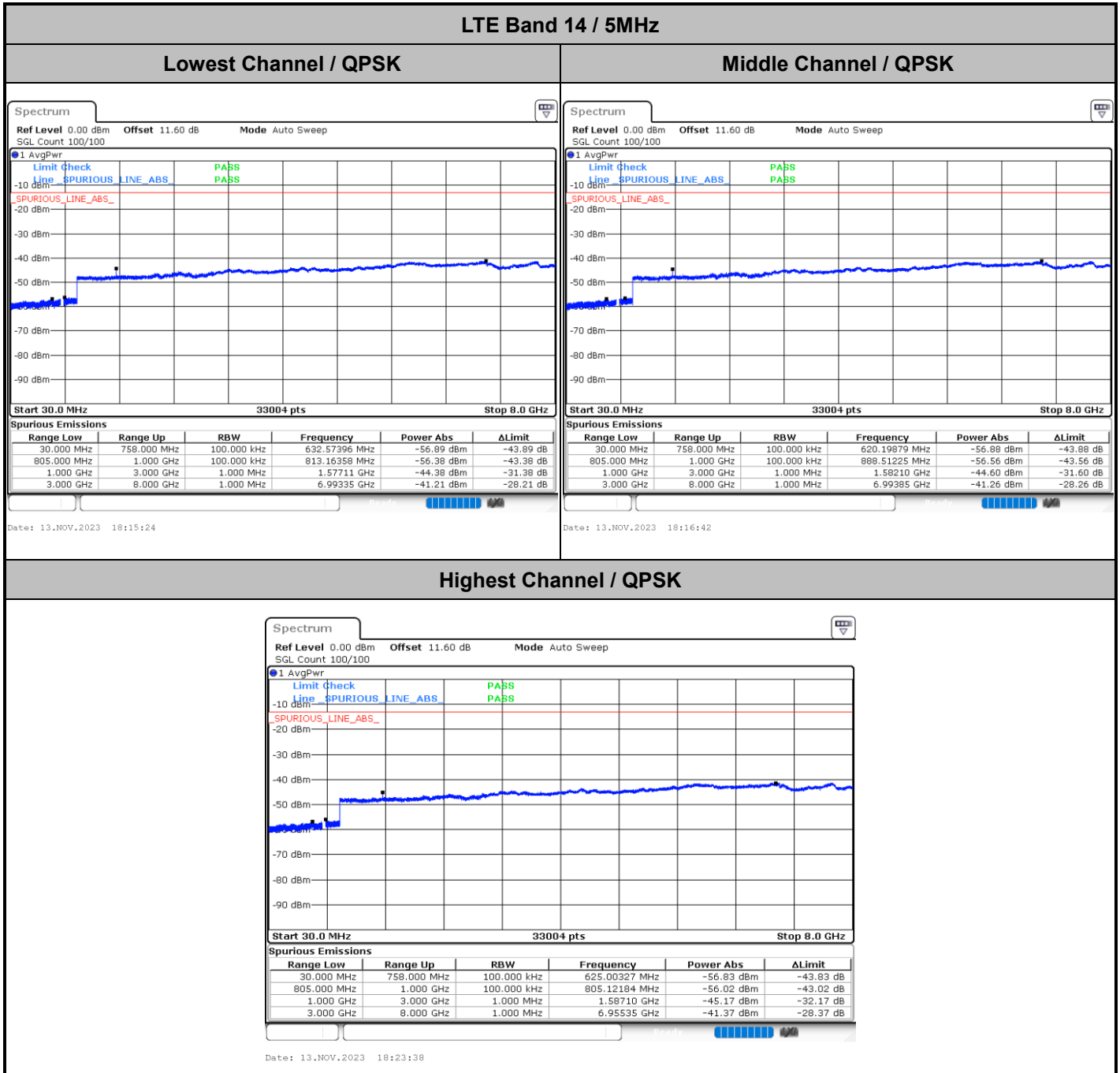


Date: 13.NOV.2023 18:27:18





# Conducted Spurious Emission

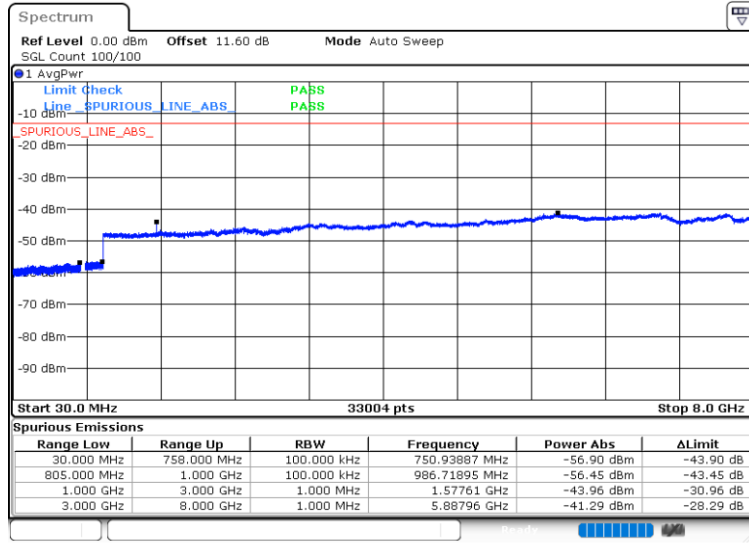






LTE Band 14 / 10MHz

Middle Channel / QPSK

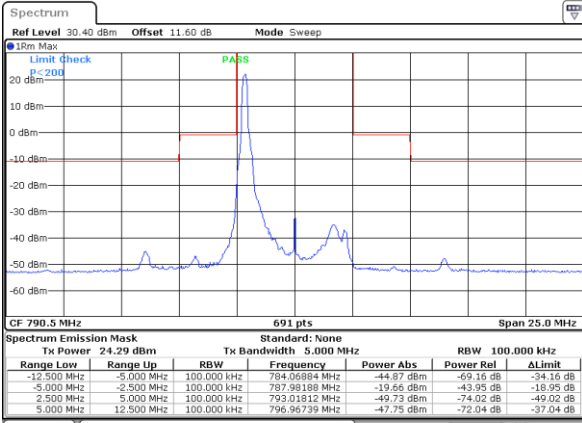


Date: 13.NOV.2023 19:06:17

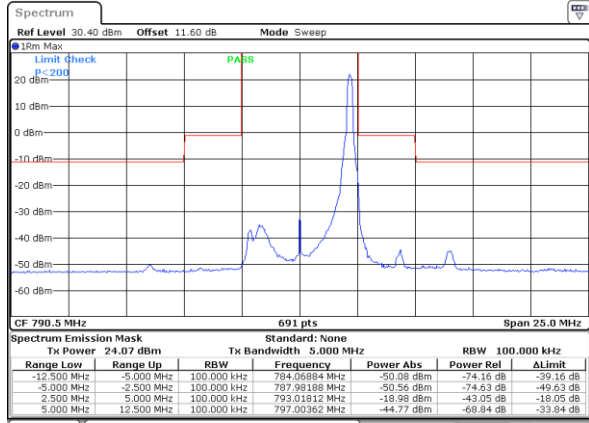
**Mask**

**LTE Band 14 / 5MHz / QPSK**

**Lowest Channel / 1RB**

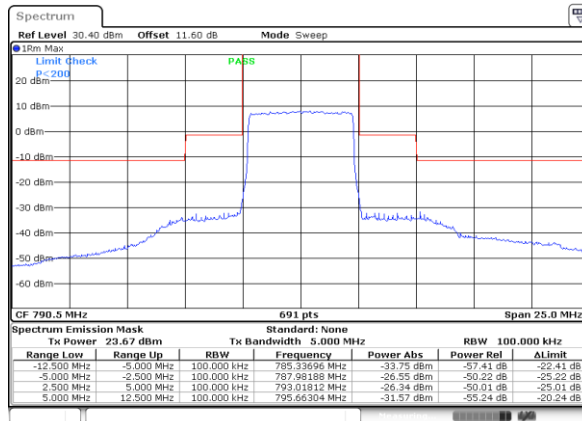


Date: 13.NOV.2023 18:34:05



Date: 13.NOV.2023 18:35:03

**Lowest Channel / Full RB**

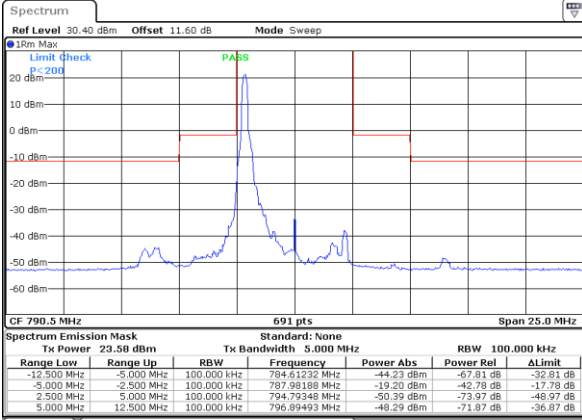


Date: 13.NOV.2023 18:29:17

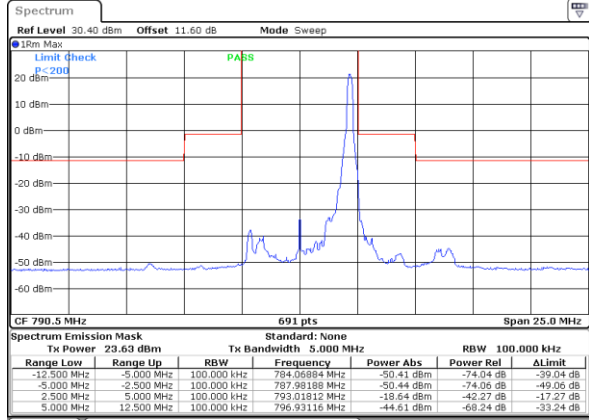


LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB

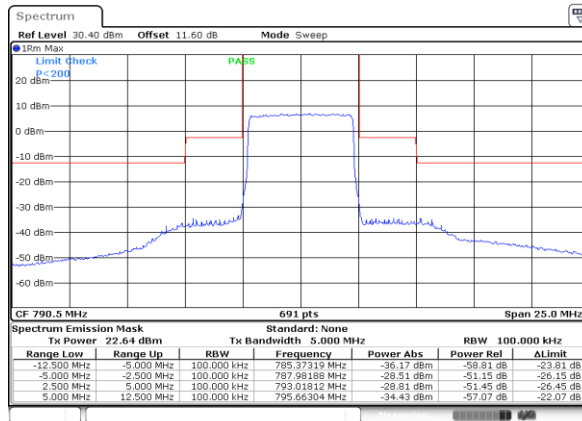


Date: 13.NOV.2023 18:13:07



Date: 13.NOV.2023 18:13:01

Lowest Channel / Full RB

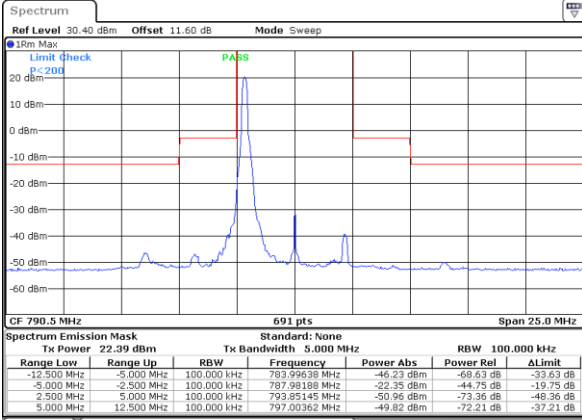


Date: 13.NOV.2023 18:13:14

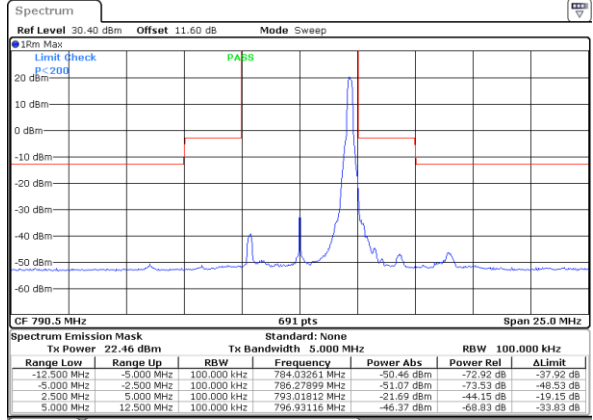


LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB

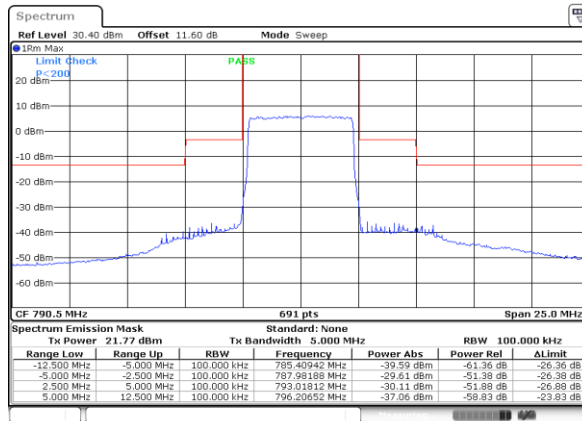


Date: 13.NOV.2023 18:32:10



Date: 13.NOV.2023 18:36:59

Lowest Channel / Full RB

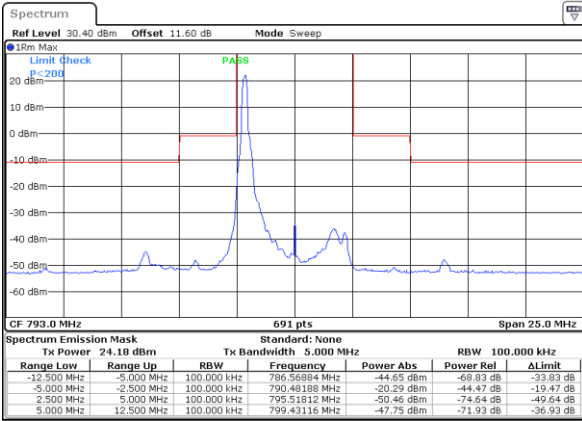


Date: 13.NOV.2023 18:31:12

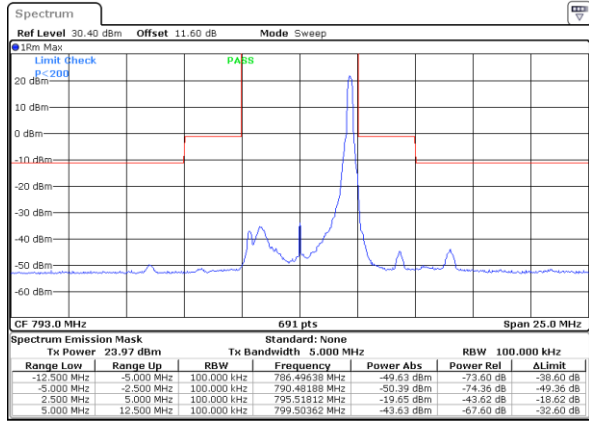


LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB

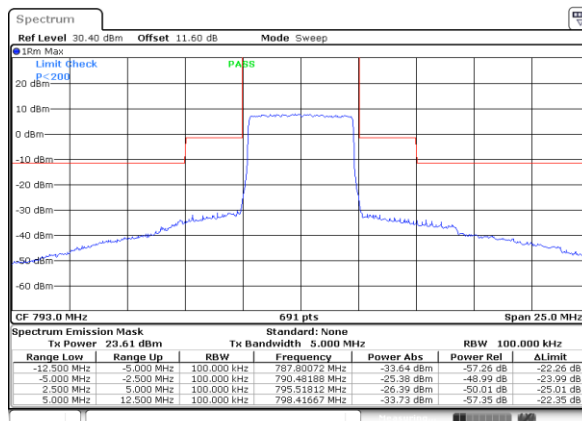


Date: 13.NOV.2023 18:40:47



Date: 13.NOV.2023 18:19:50

Middle Channel / Full RB

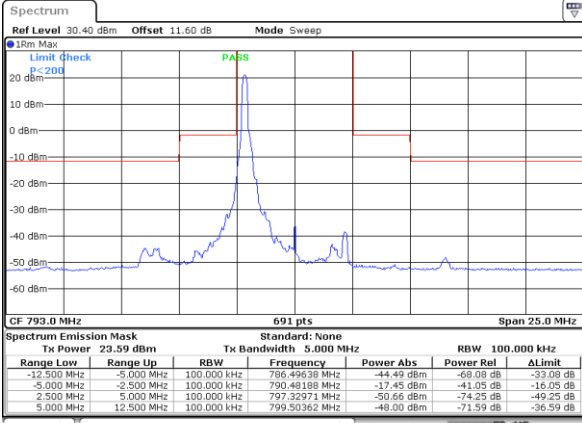


Date: 13.NOV.2023 18:45:34

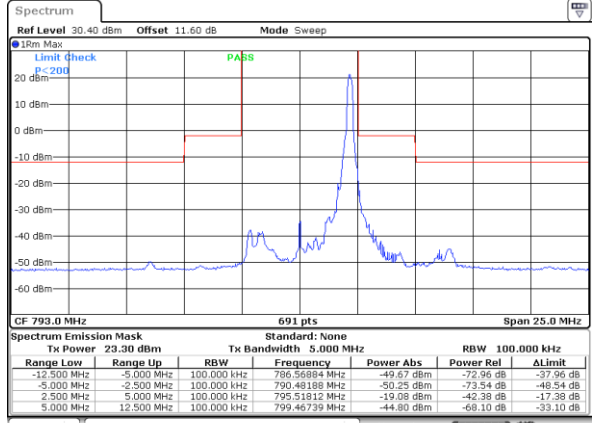


LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB

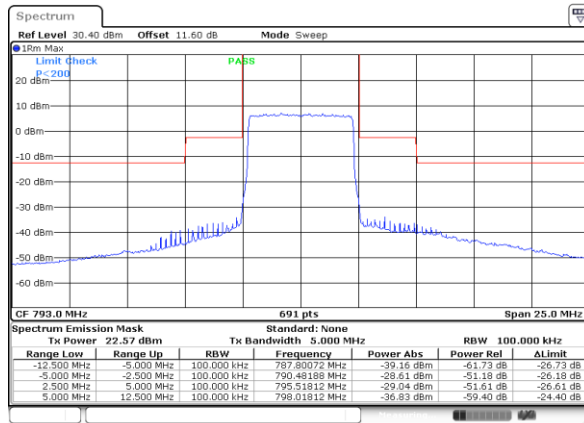


Date: 13.NOV.2023 18:41:45



Date: 13.NOV.2023 18:18:53

Middle Channel / Full RB

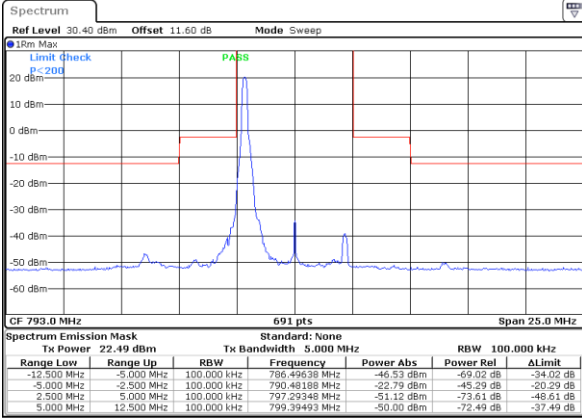


Date: 13.NOV.2023 18:44:36

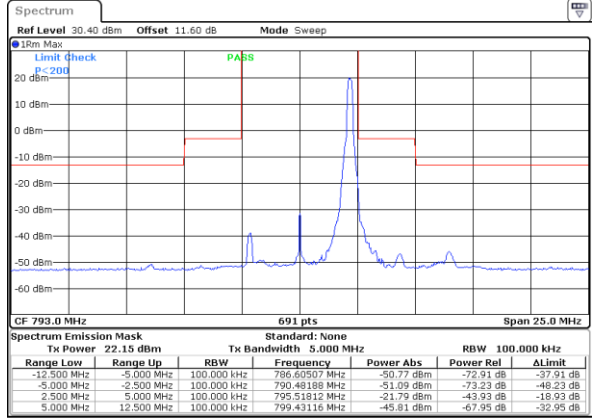


LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB

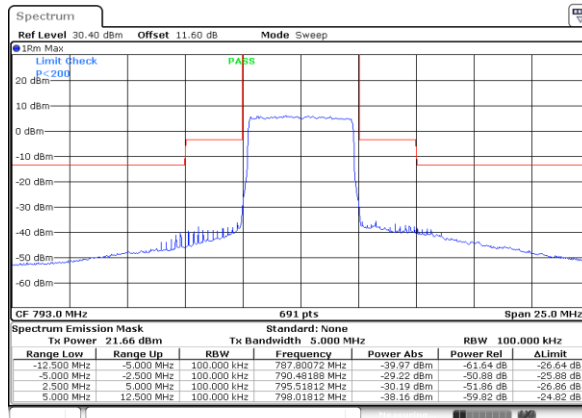


Date: 13.NOV.2023 18:42:42



Date: 13.NOV.2023 18:13:56

Middle Channel / Full RB

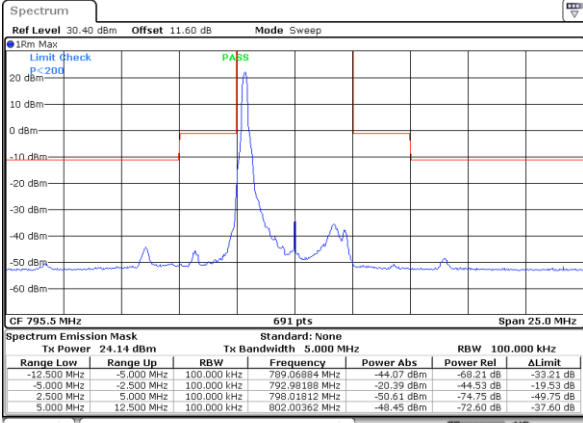


Date: 13.NOV.2023 18:43:39

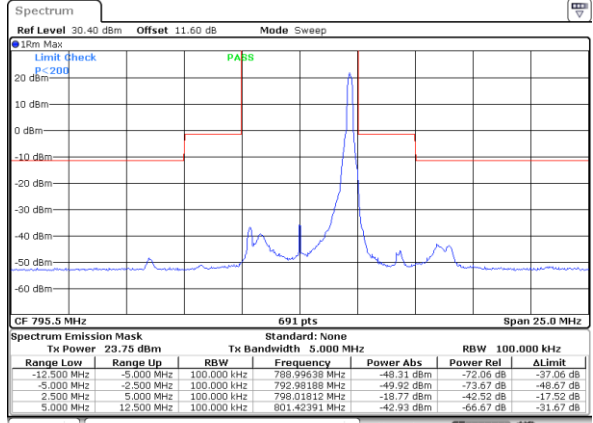


LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB

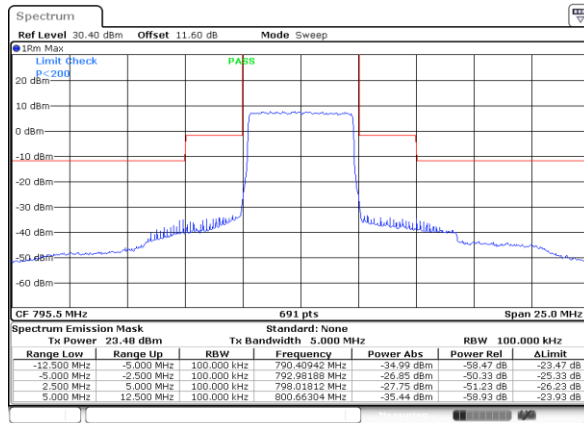


Date: 13.NOV.2023 18:51:20



Date: 13.NOV.2023 18:52:17

Highest Channel / Full RB



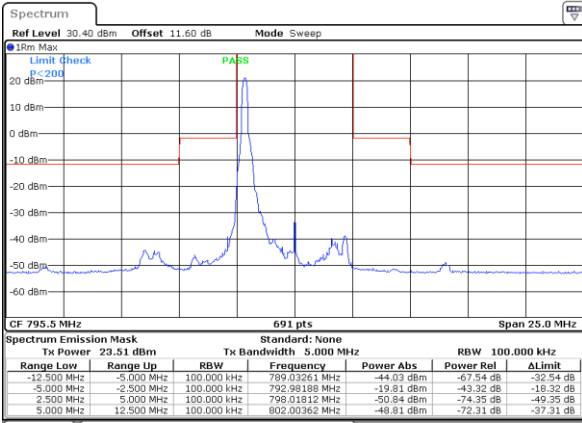
Date: 13.NOV.2023 18:46:31



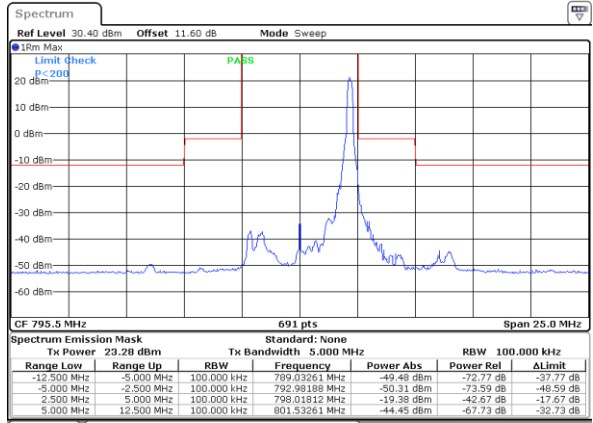


LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB

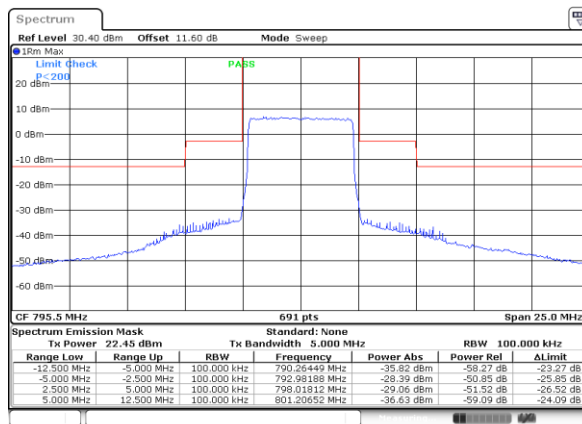


Date: 13.NOV.2023 18:50:22



Date: 13.NOV.2023 18:53:15

Highest Channel / Full RB

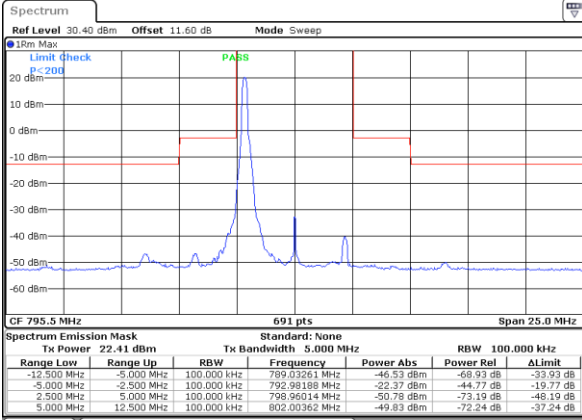


Date: 13.NOV.2023 18:47:29

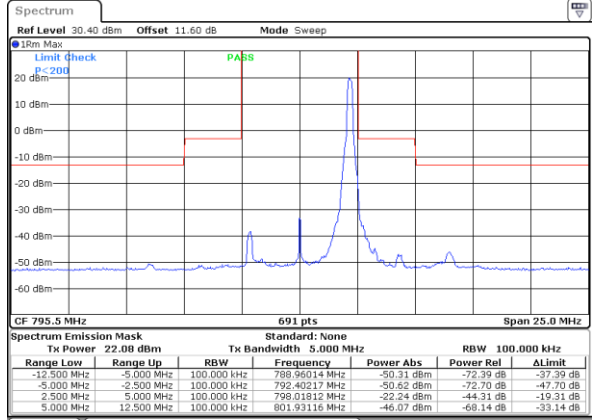


LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

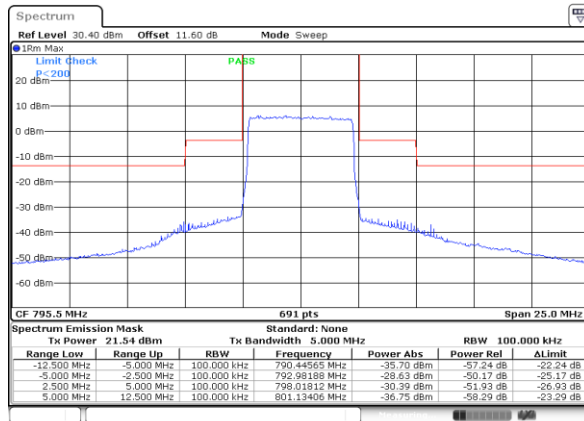


Date: 13.NOV.2023 18:49:24

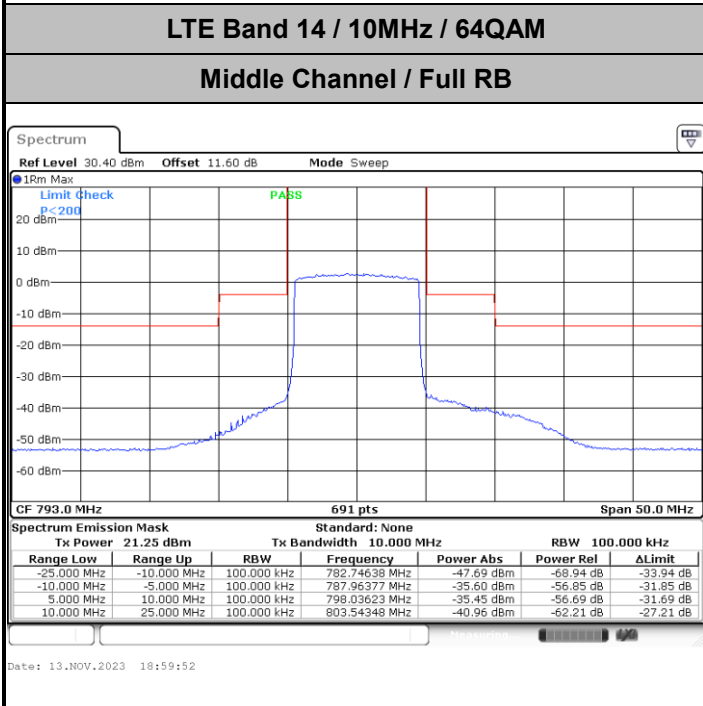
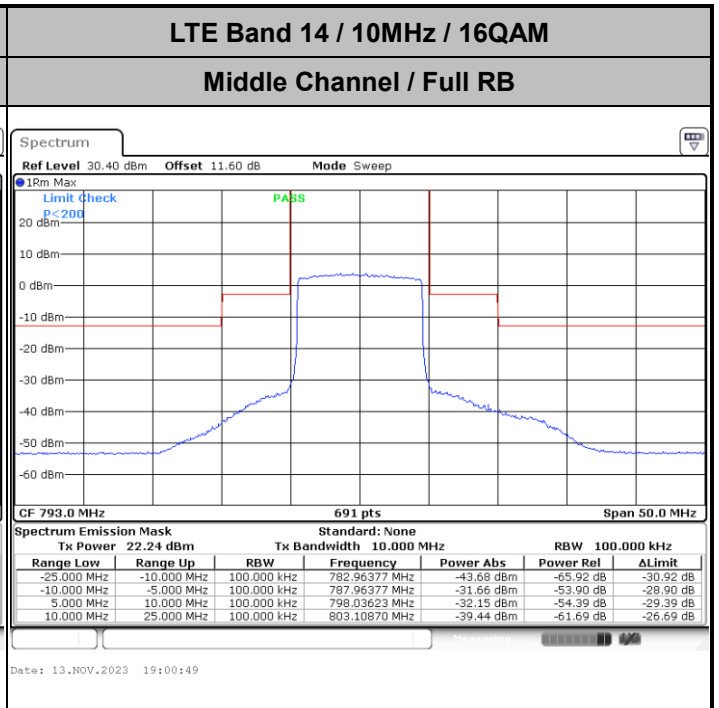
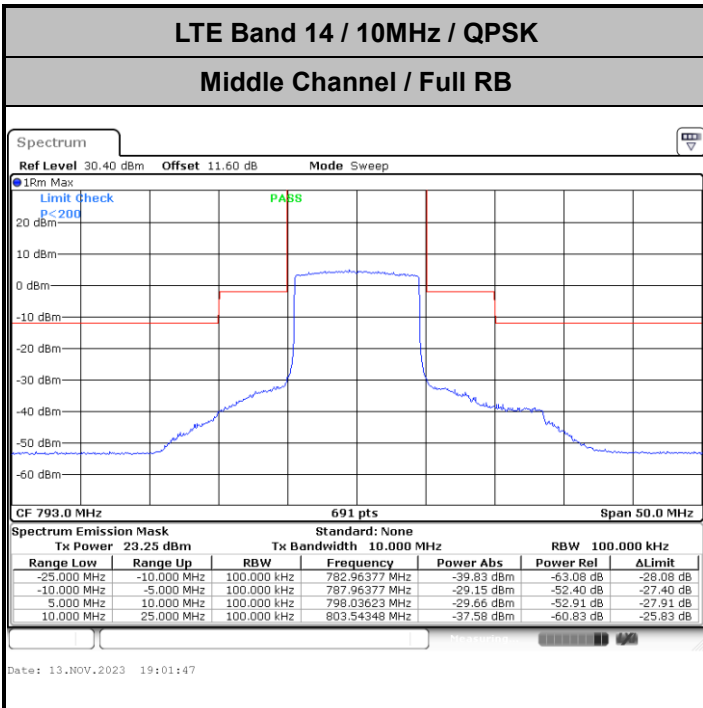


Date: 13.NOV.2023 18:54:13

Highest Channel / Full RB



Date: 13.NOV.2023 18:48:27





**Frequency Stability**

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0053	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0189	
-30	Normal Voltage	0.0110	
20	Maximum Voltage	0.0159	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

**Note:**

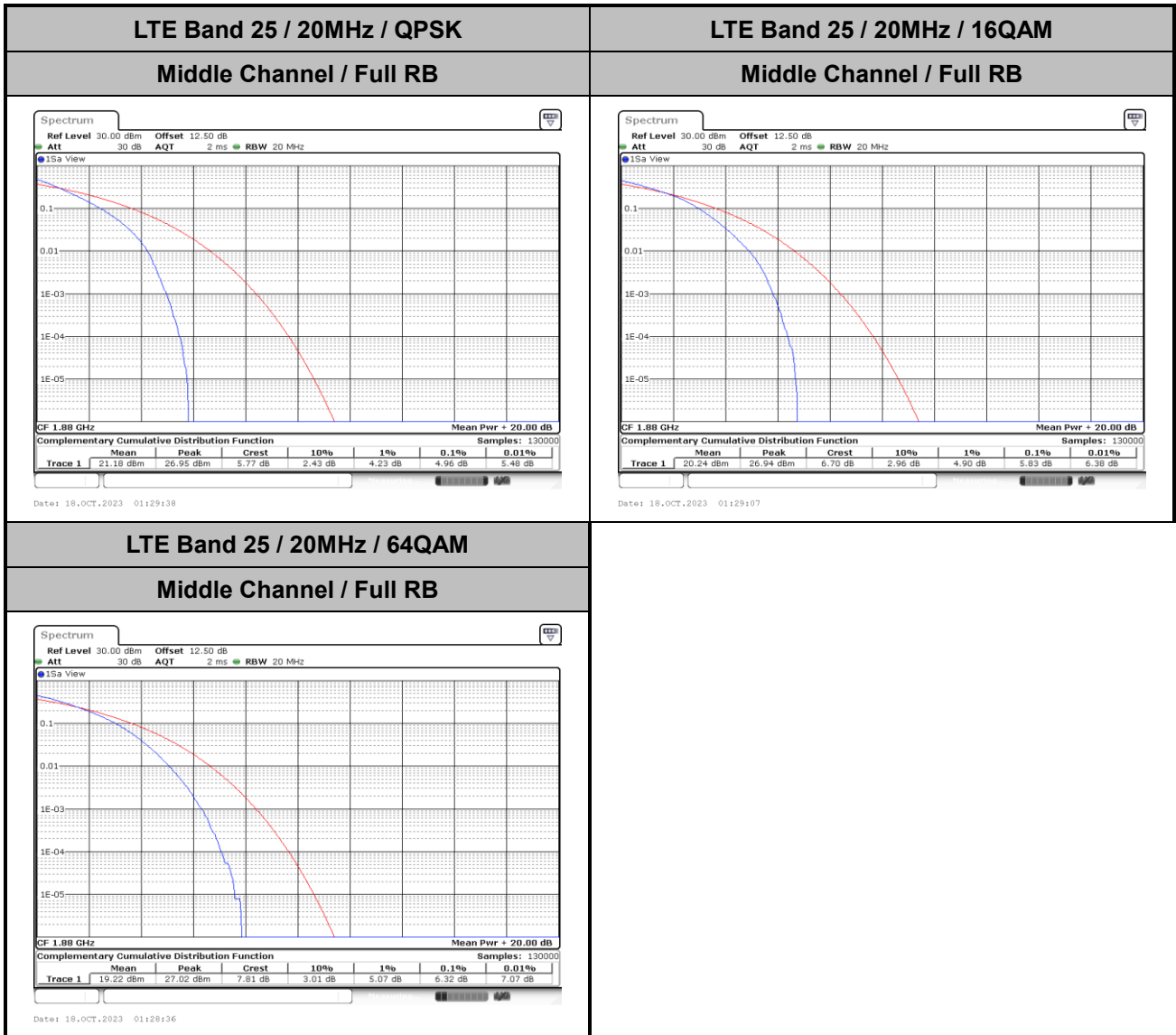
- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 25

## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.83	6.32	-	PASS





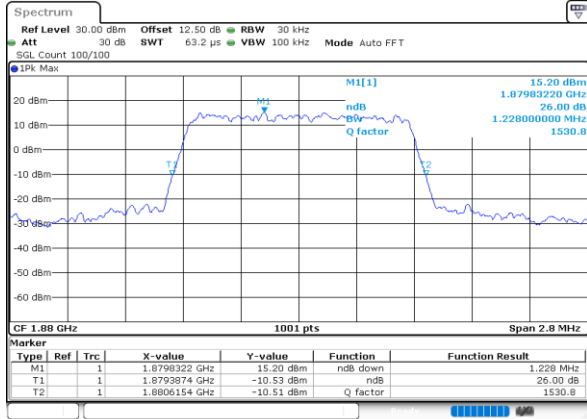
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.23	1.22	3.02	3.00	4.92	4.98	9.83	9.83	14.39	14.51	19.18	18.78
Mode	LTE Band 25 : 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	1.22	-	3.00	-	4.86	-	9.85	-	14.33	-	18.82	-



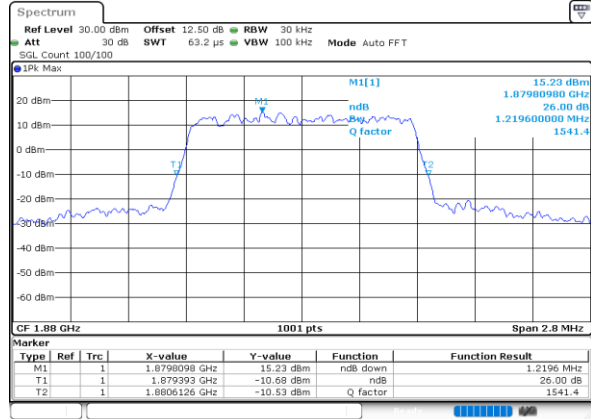
LTE Band 25

Middle Channel / 1.4MHz / QPSK



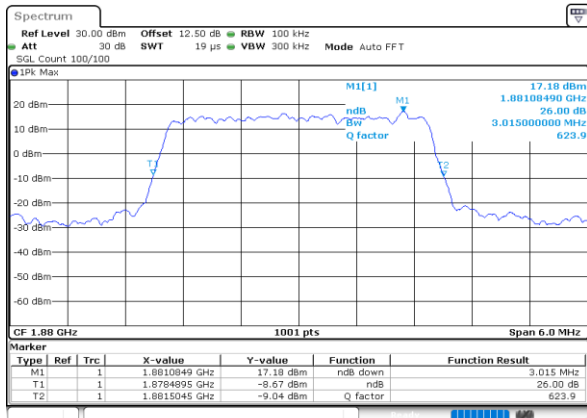
Date: 18.OCT.2023 00:32:41

Middle Channel / 1.4MHz / 16QAM



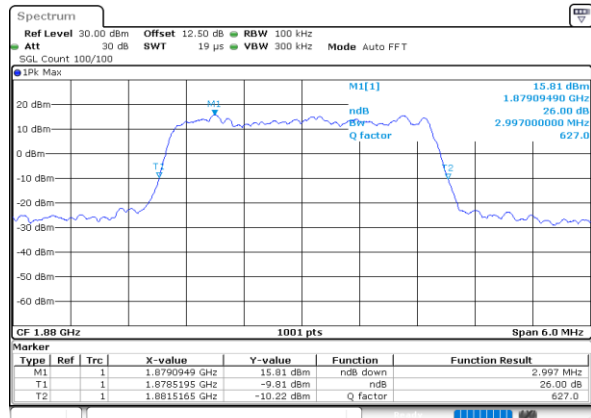
Date: 18.OCT.2023 00:33:10

Middle Channel / 3MHz / QPSK



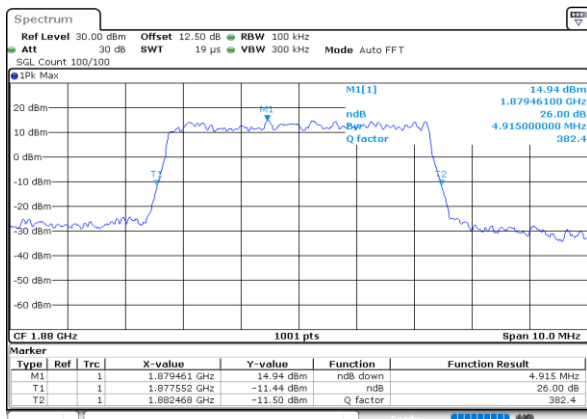
Date: 18.OCT.2023 00:50:42

Middle Channel / 3MHz / 16QAM



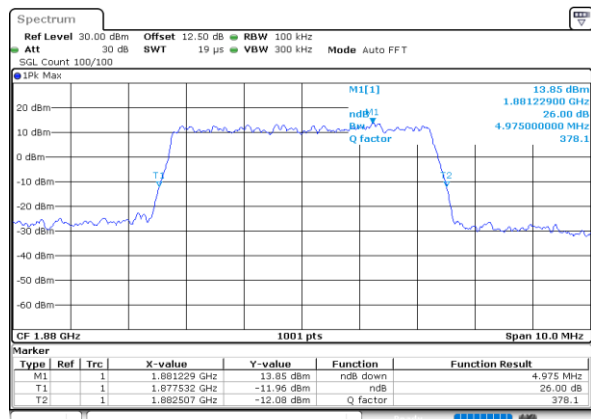
Date: 18.OCT.2023 00:51:12

Middle Channel / 5MHz / QPSK



Date: 18.OCT.2023 00:56:43

Middle Channel / 5MHz / 16QAM

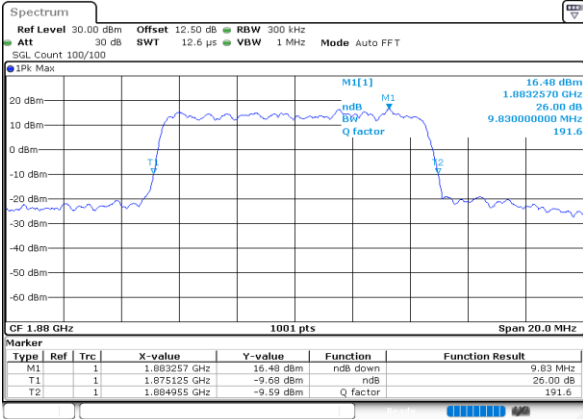


Date: 18.OCT.2023 00:57:13



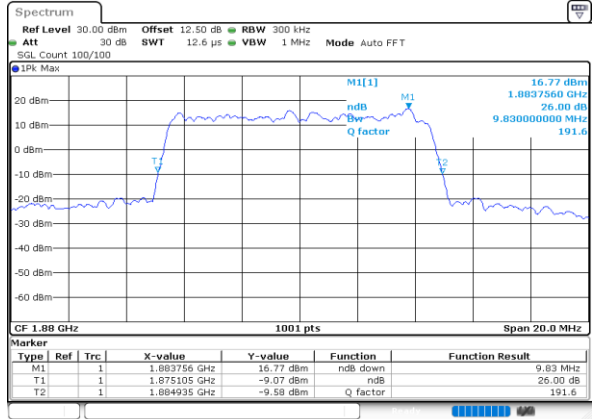
LTE Band 25

Middle Channel / 10MHz / QPSK



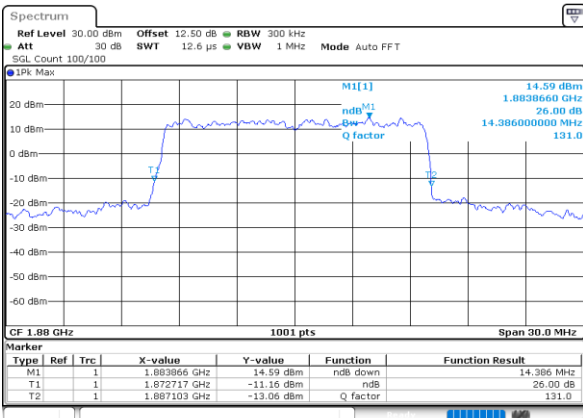
Date: 18.OCT.2023 01:05:26

Middle Channel / 10MHz / 16QAM



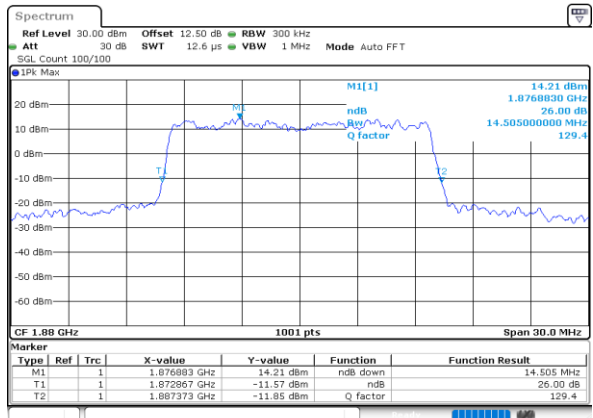
Date: 18.OCT.2023 01:05:56

Middle Channel / 15MHz / QPSK



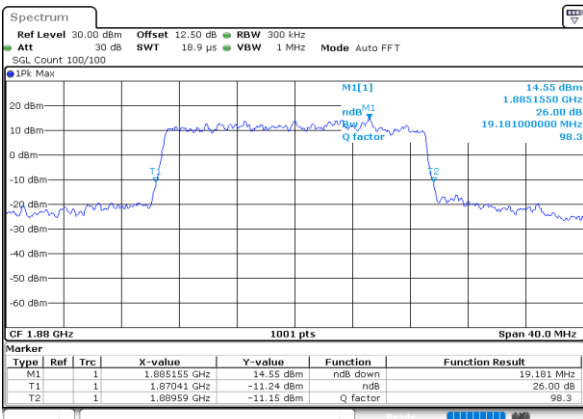
Date: 18.OCT.2023 01:16:53

Middle Channel / 15MHz / 16QAM



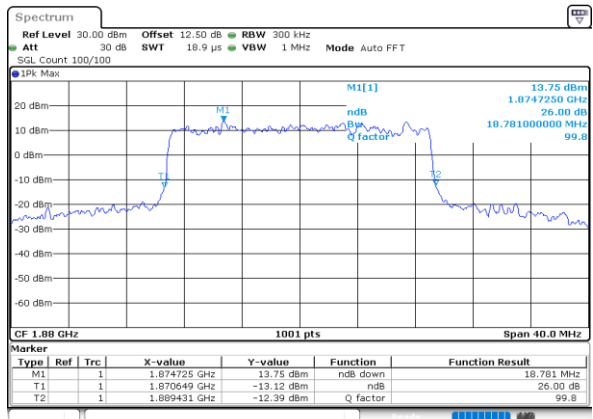
Date: 18.OCT.2023 01:17:22

Middle Channel / 20MHz / QPSK



Date: 18.OCT.2023 01:22:54

Middle Channel / 20MHz / 16QAM



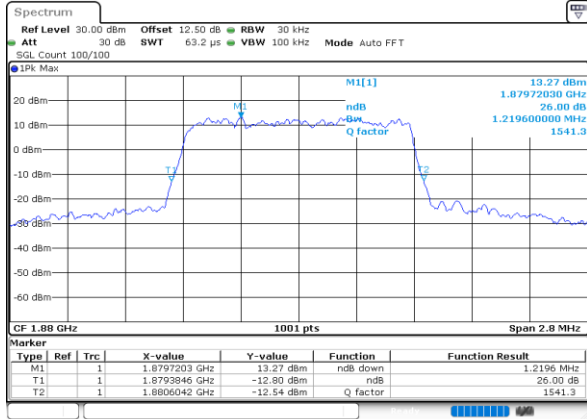
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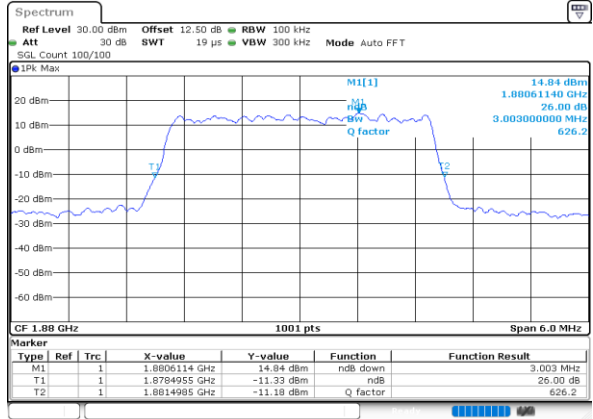
LTE Band 25

Middle Channel / 1.4MHz / 64QAM



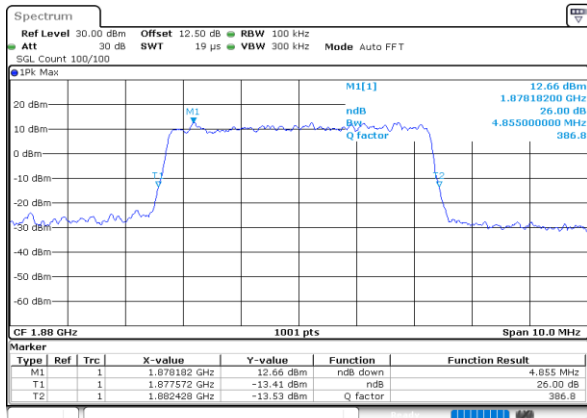
Date: 18.OCT.2023 00:42:29

Middle Channel / 3MHz / 64QAM



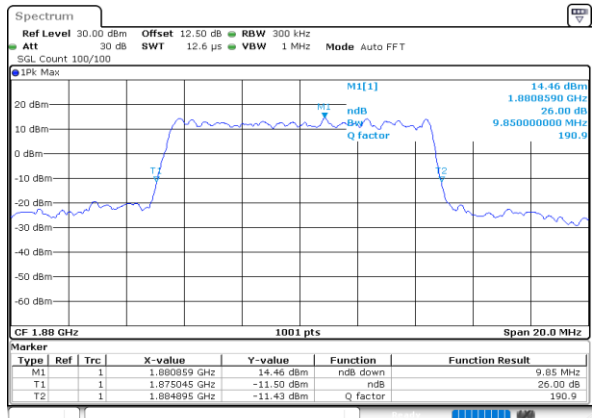
Date: 18.OCT.2023 00:46:16

Middle Channel / 5MHz / 64QAM



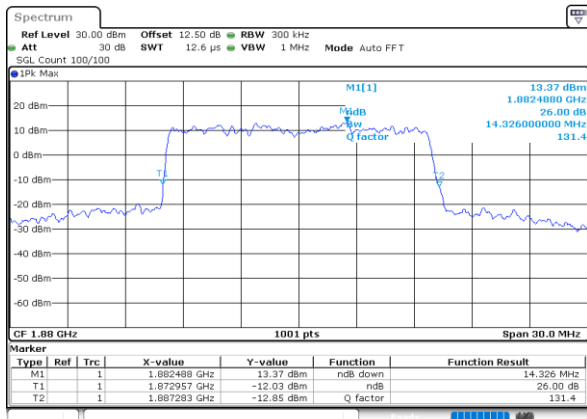
Date: 18.OCT.2023 01:00:54

Middle Channel / 10MHz / 64QAM



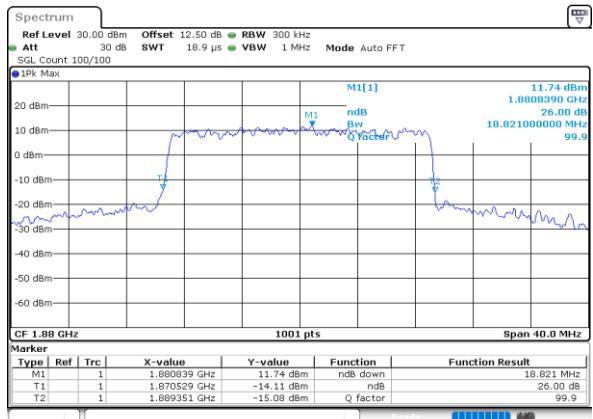
Date: 18.OCT.2023 01:09:38

Middle Channel / 15MHz / 64QAM



Date: 18.OCT.2023 01:12:26

Middle Channel / 20MHz / 64QAM



Date: 18.OCT.2023 01:12:06



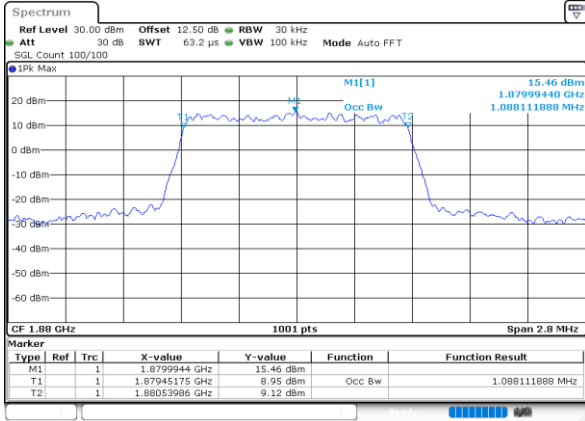
Occupied Bandwidth

Mode	LTE Band 25 : 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	1.08	2.71	2.70	4.49	4.52	9.01	8.97	13.43	13.46	17.90	17.82
Mode	LTE Band 25 : 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	-	2.73	-	4.49	-	9.03	-	13.46	-	17.94	-



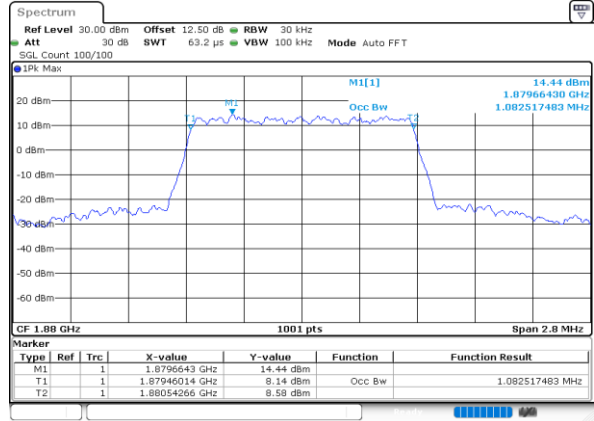
LTE Band 25

Middle Channel / 1.4MHz / QPSK



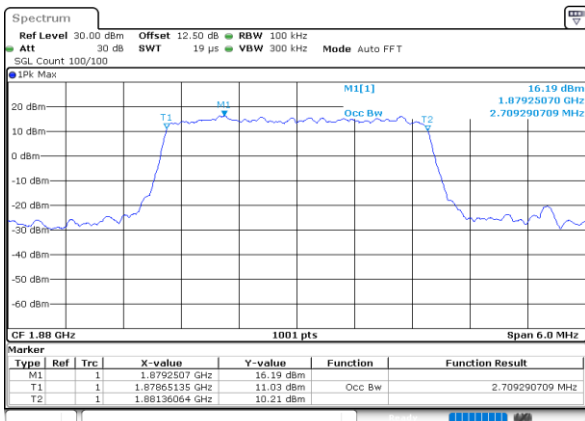
Date: 18.OCT.2023 00:31:42

Middle Channel / 1.4MHz / 16QAM



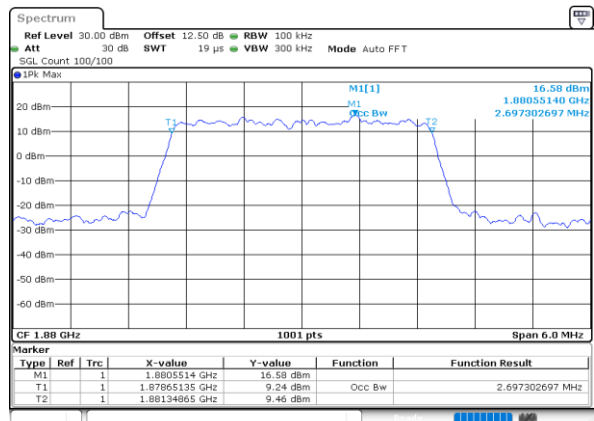
Date: 18.OCT.2023 00:32:12

Middle Channel / 3MHz / QPSK



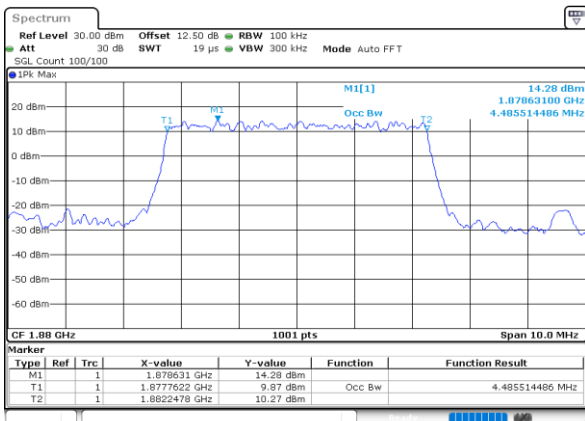
Date: 18.OCT.2023 00:49:43

Middle Channel / 3MHz / 16QAM



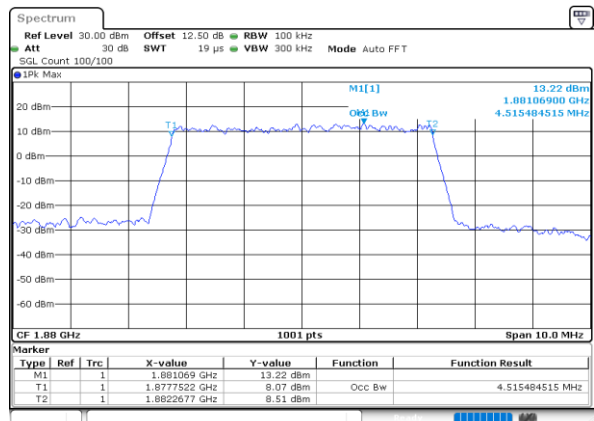
Date: 18.OCT.2023 00:50:13

Middle Channel / 5MHz / QPSK



Date: 18.OCT.2023 00:55:44

Middle Channel / 5MHz / 16QAM

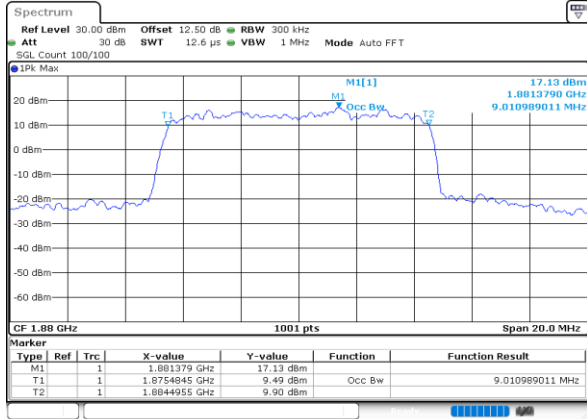


Date: 18.OCT.2023 00:56:14



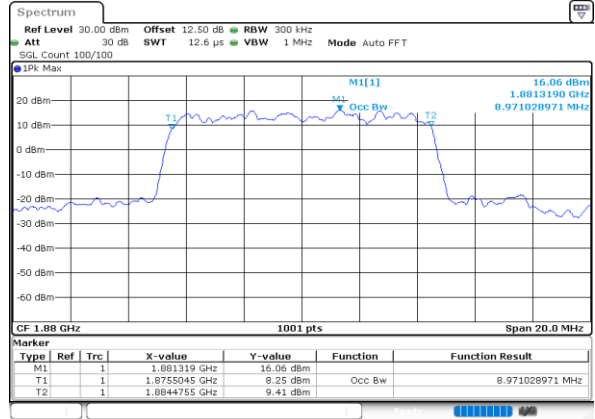
LTE Band 25

Middle Channel / 10MHz / QPSK



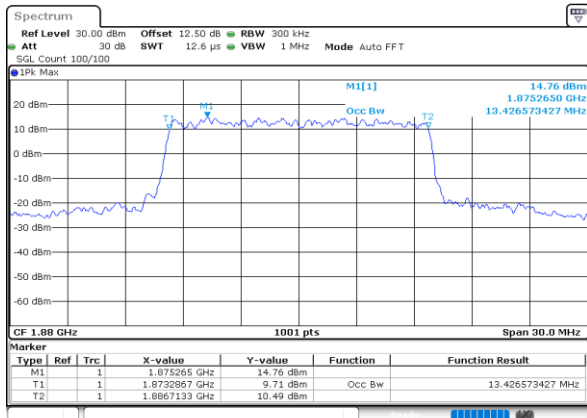
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Middle Channel / 10MHz / 16QAM



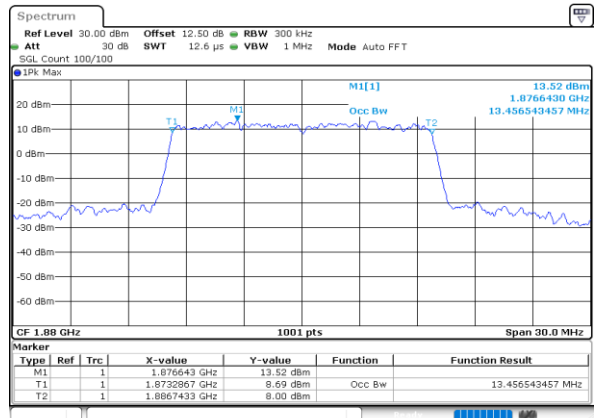
Date: 18.OCT.2023 01:04:57

Middle Channel / 15MHz / QPSK



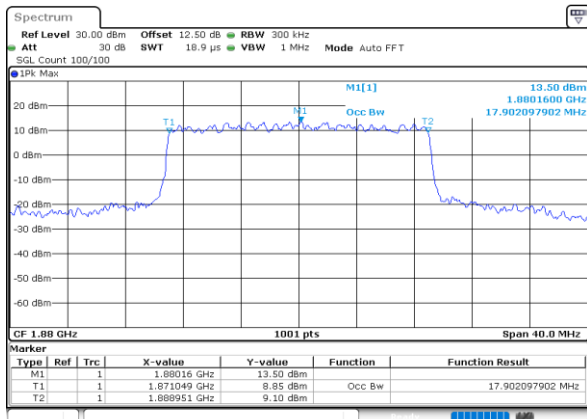
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Middle Channel / 15MHz / 16QAM



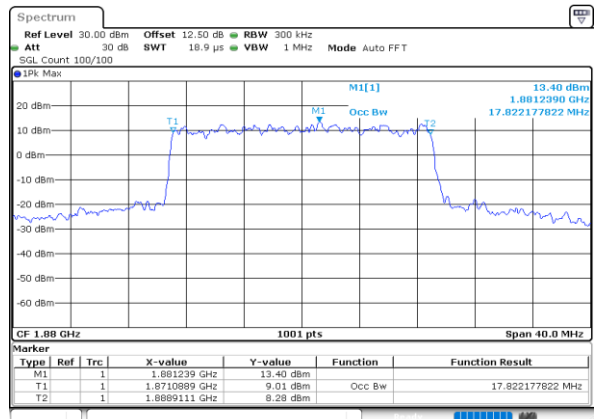
Date: 18.OCT.2023 01:16:23

Middle Channel / 20MHz / QPSK



Date: 18.OCT.2023 01:21:55

Middle Channel / 20MHz / 16QAM



Date: 18.OCT.2023 01:22:24