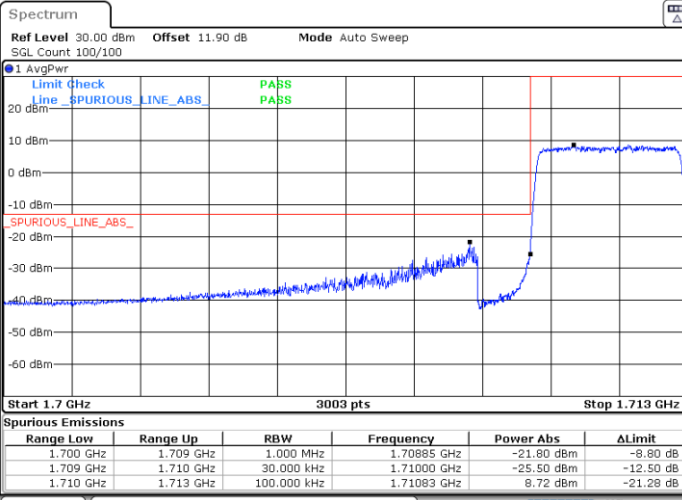




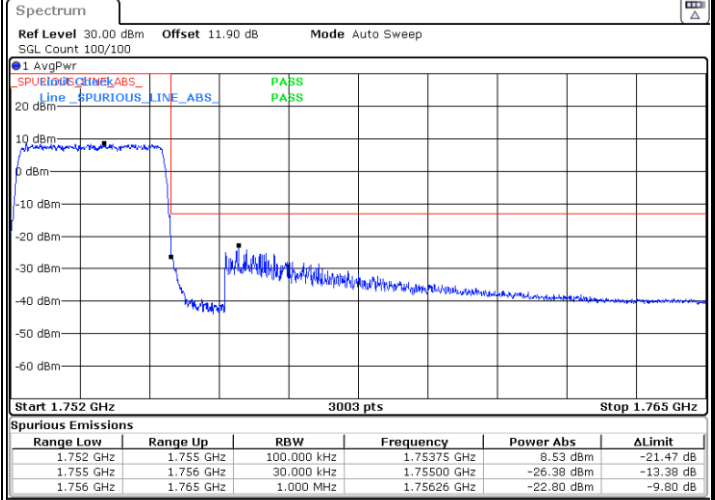
LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:08:03

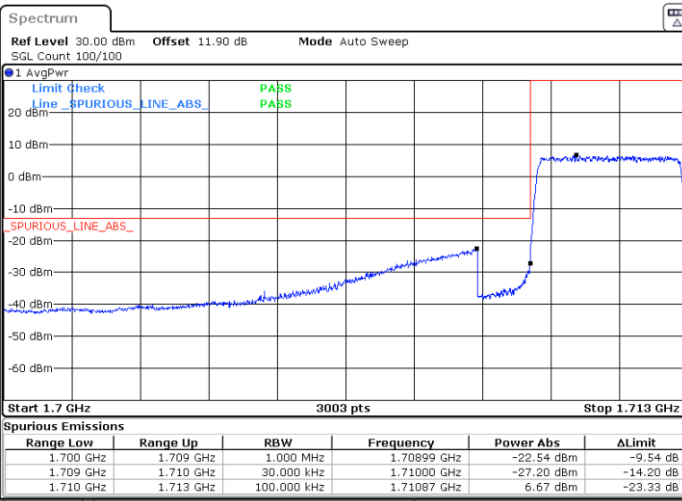
Highest Band Edge / Full RB



Date: 1.AUG.2023 07:09:45

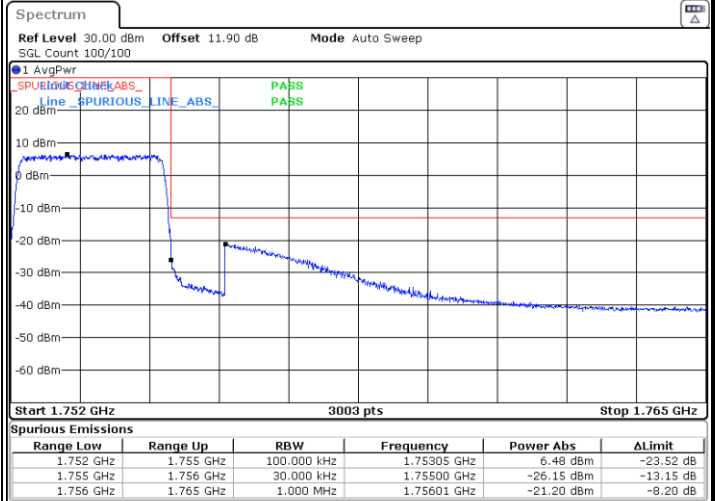
LTE Band 4 / 3MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:07:28

Highest Band Edge / Full RB

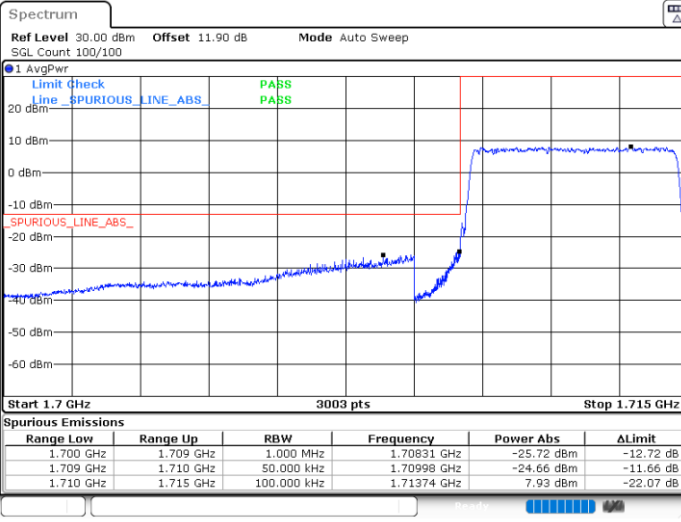


Date: 1.AUG.2023 08:09:10

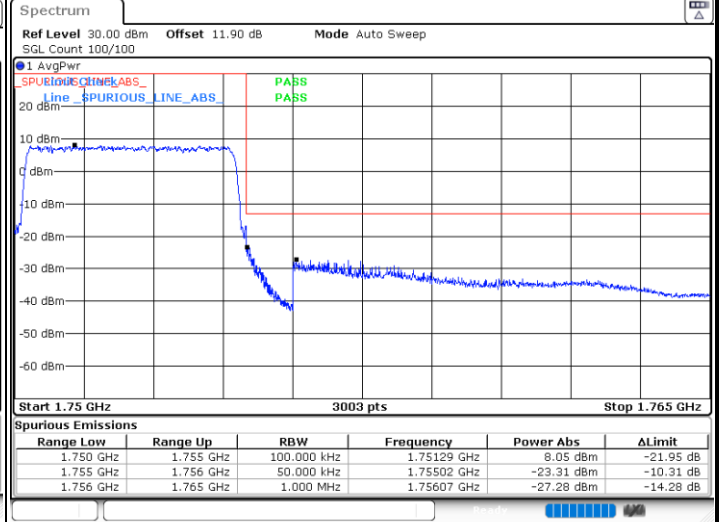


LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB

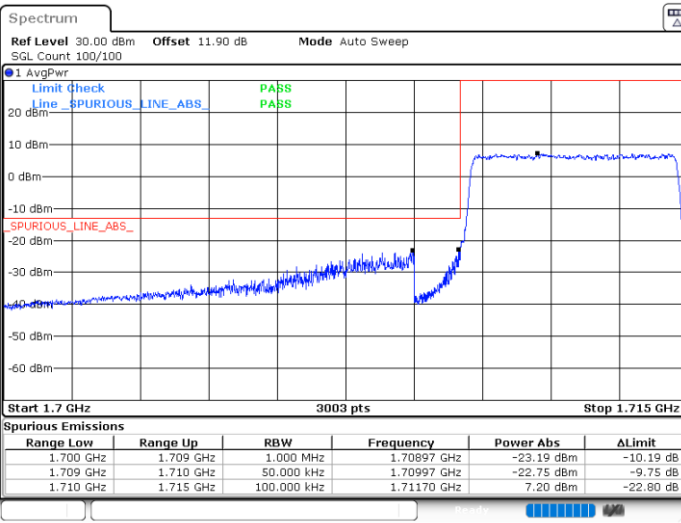


Highest Band Edge / Full RB

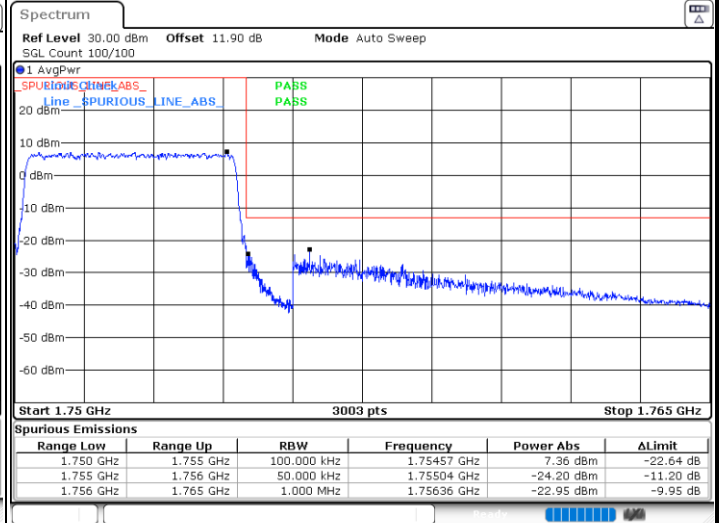


LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



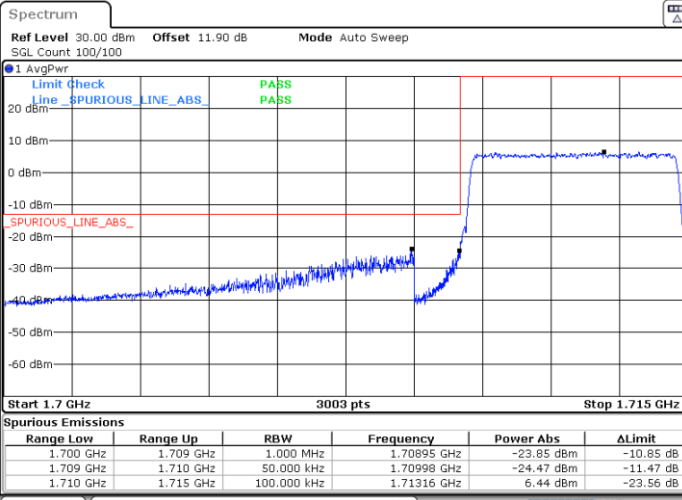
Highest Band Edge / Full RB





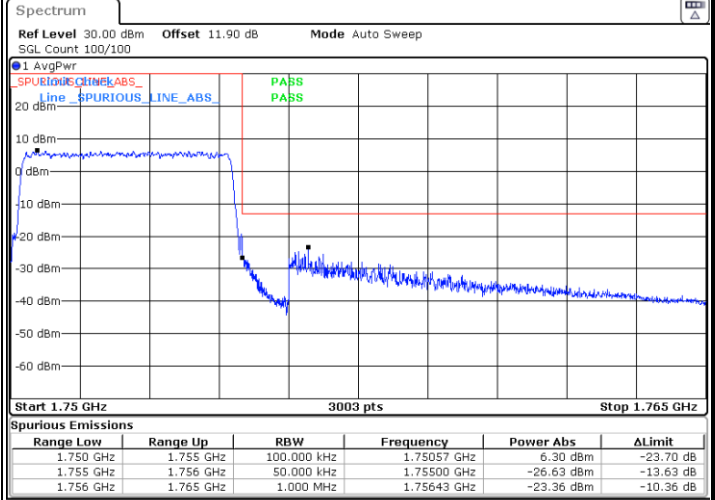
LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:10:49

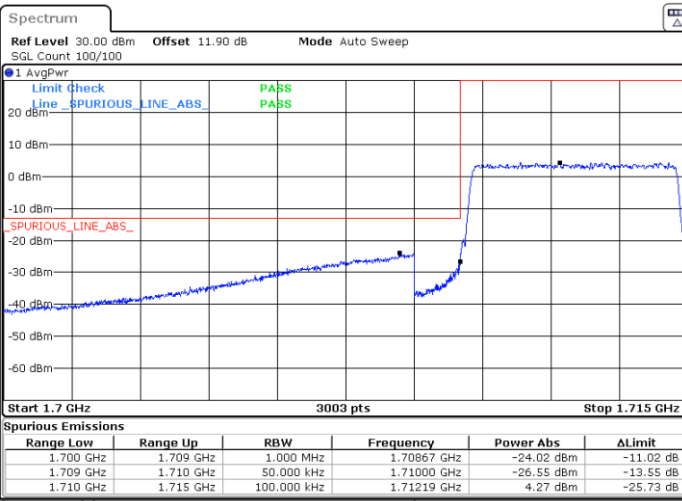
Highest Band Edge / Full RB



Date: 1.AUG.2023 07:15:56

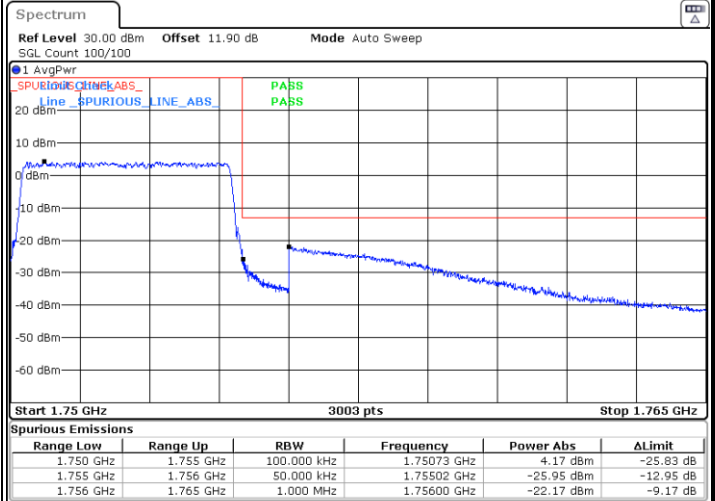
LTE Band 4 / 5MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:10:15

Highest Band Edge / Full RB

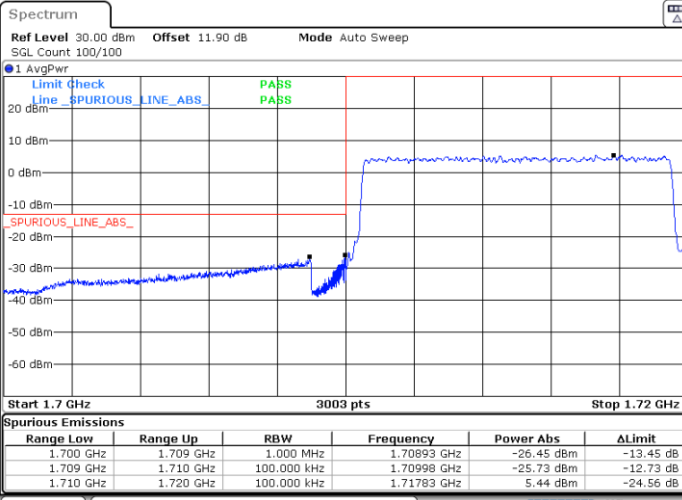


Date: 1.AUG.2023 08:11:57



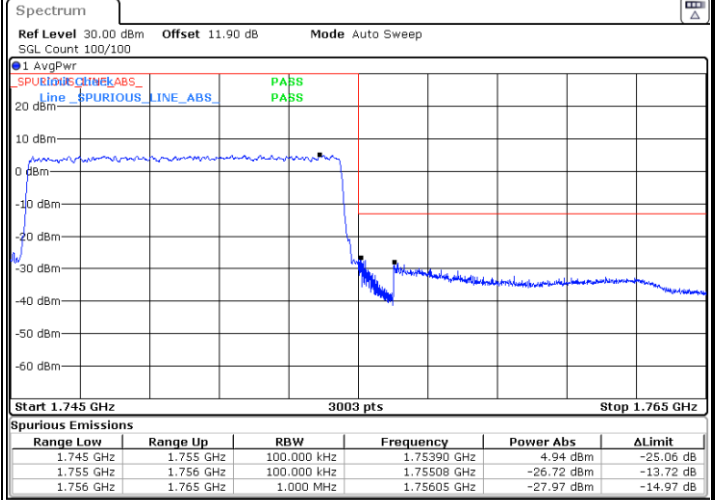
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:22:54

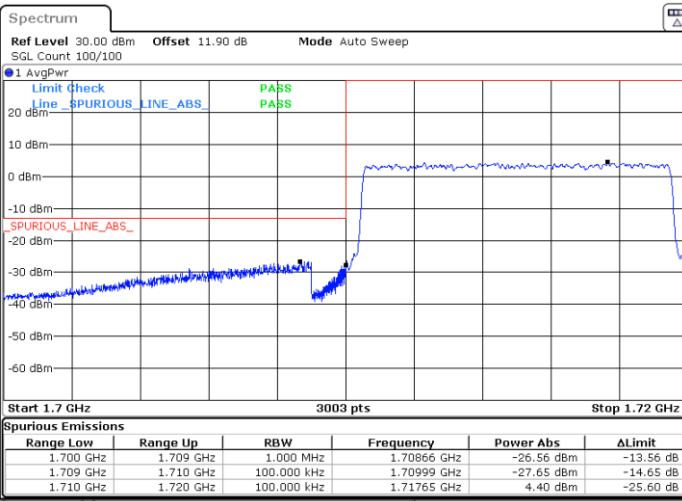
Highest Band Edge / Full RB



Date: 1.AUG.2023 07:26:48

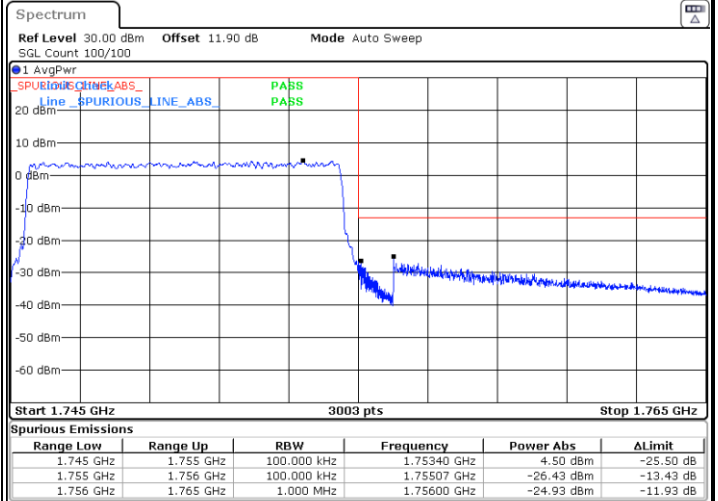
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:23:53

Highest Band Edge / Full RB

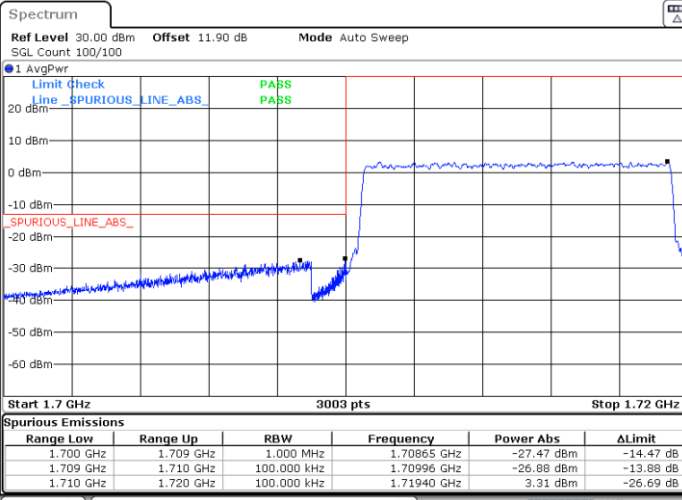


Date: 1.AUG.2023 07:27:47

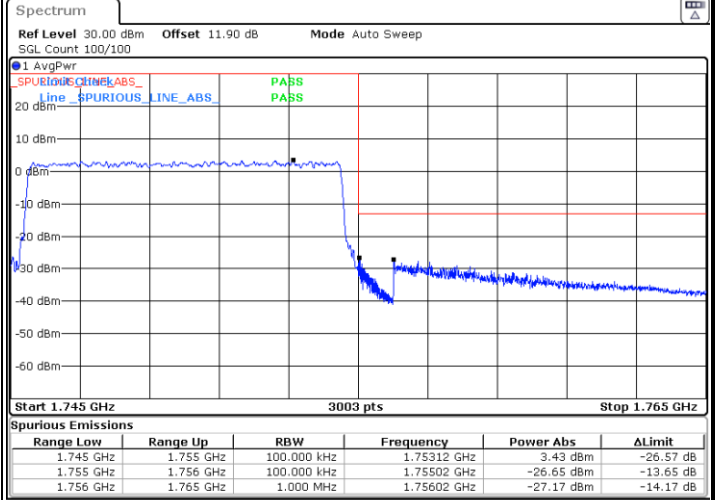


LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / Full RB

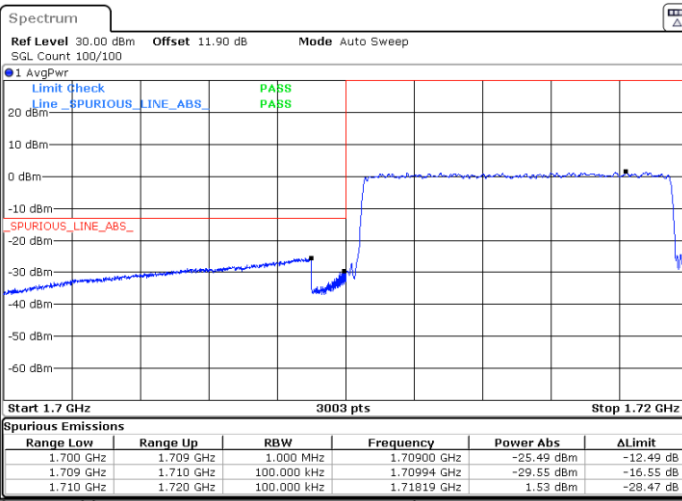


Highest Band Edge / Full RB

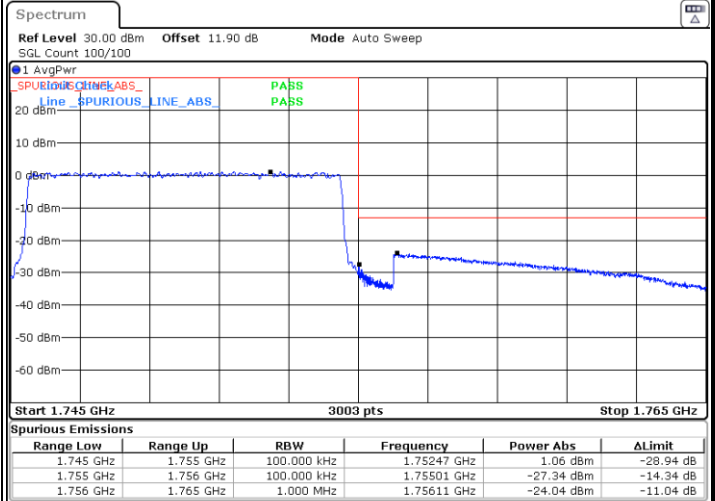


LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / Full RB



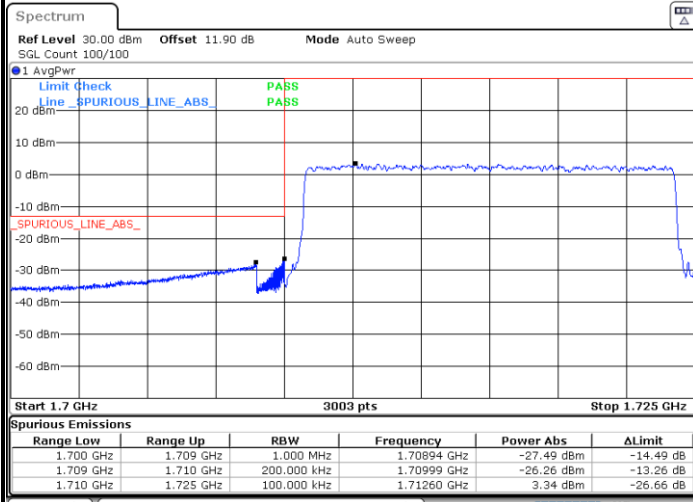
Highest Band Edge / Full RB





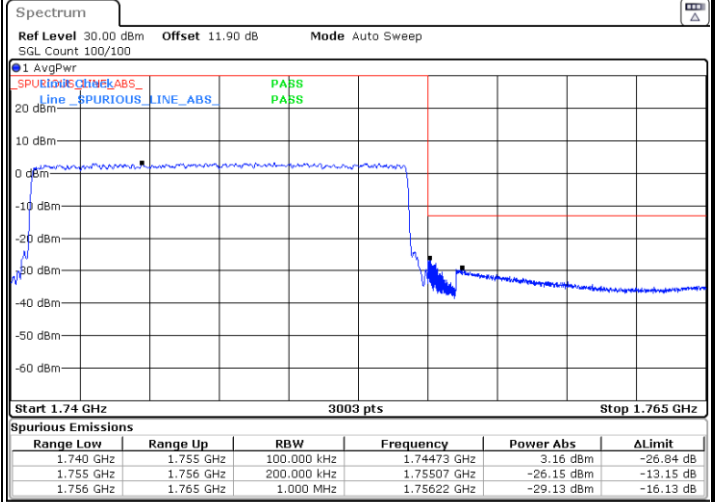
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:34:59

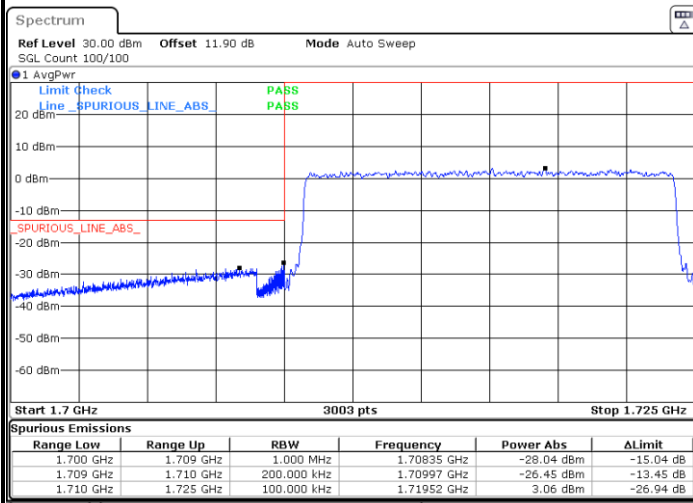
Highest Band Edge / Full RB



Date: 1.AUG.2023 07:42:17

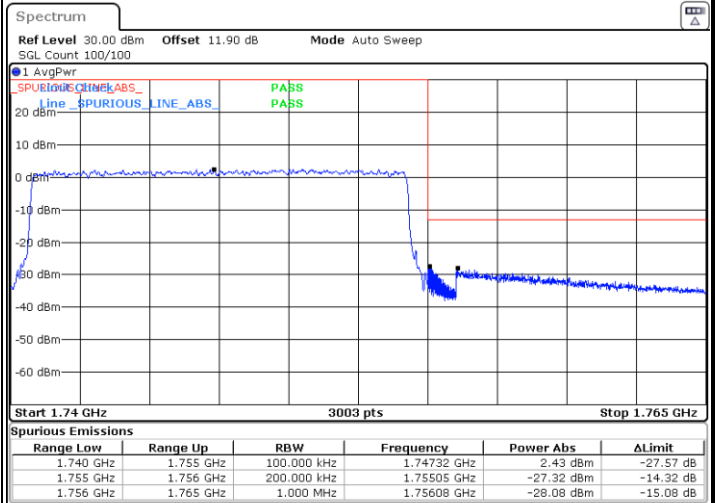
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:35:58

Highest Band Edge / Full RB

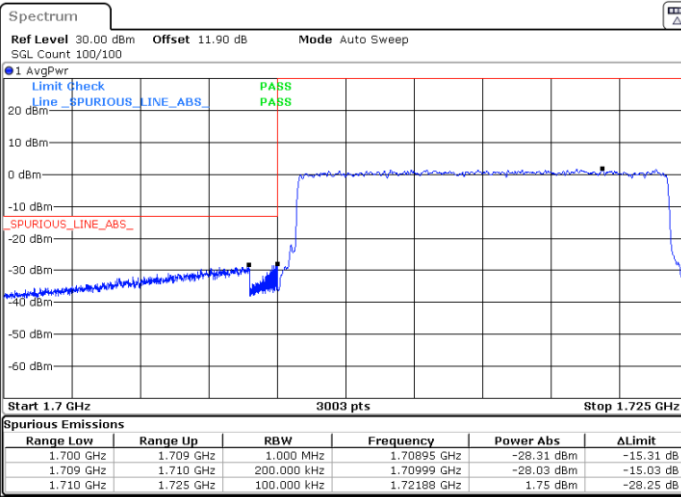


Date: 1.AUG.2023 07:43:17

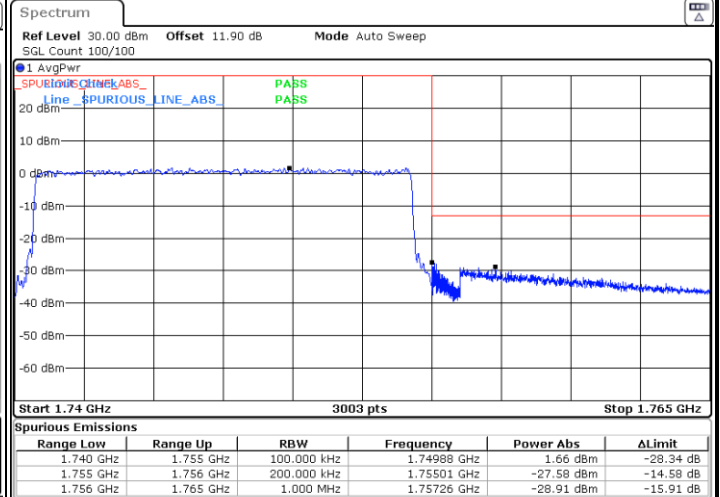


LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / Full RB

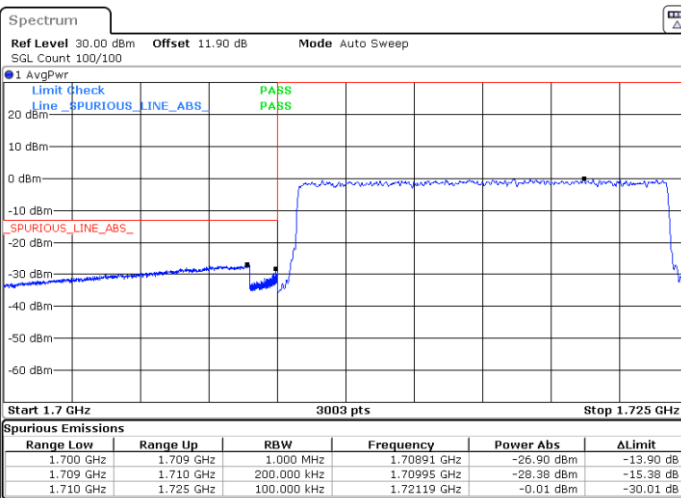


Highest Band Edge / Full RB

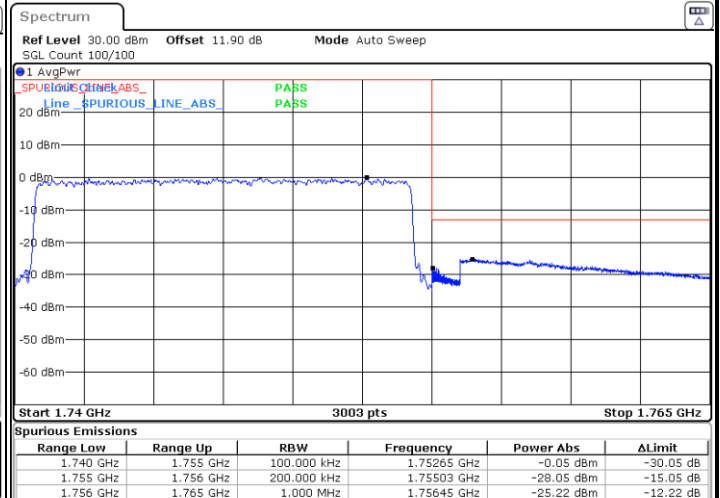


LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / Full RB



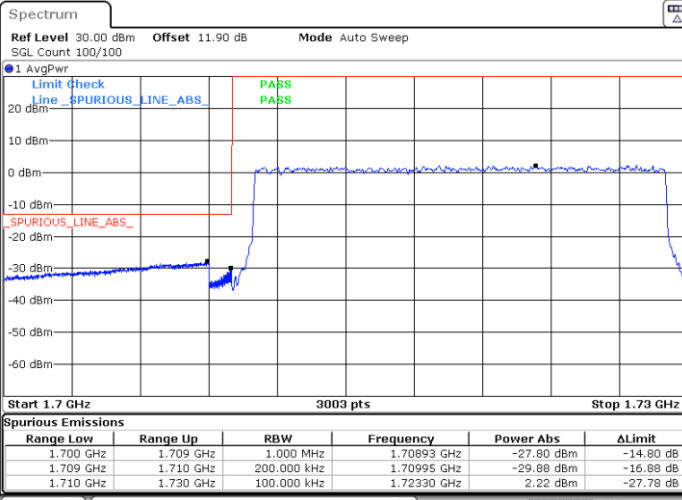
Highest Band Edge / Full RB





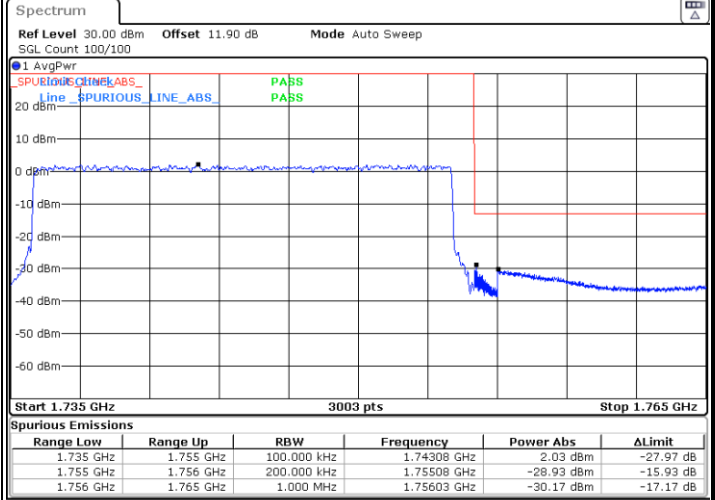
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:47:03

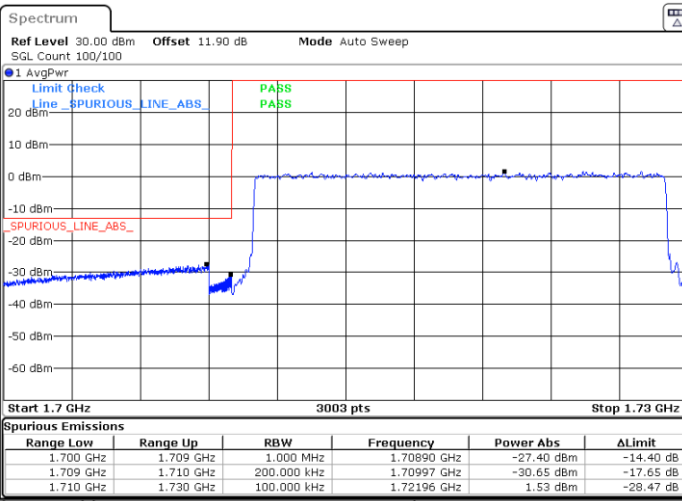
Highest Band Edge / Full RB



Date: 1.AUG.2023 07:54:22

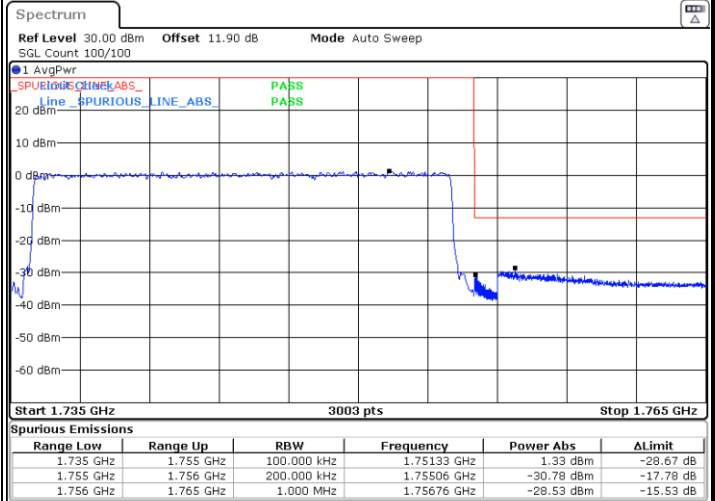
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:48:03

Highest Band Edge / Full RB

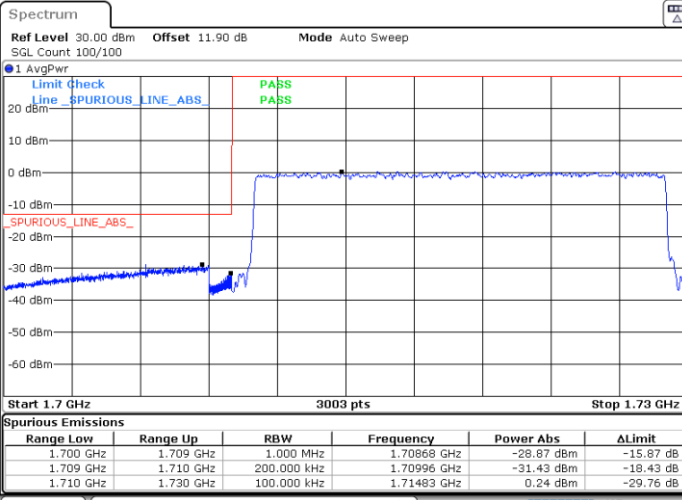


Date: 1.AUG.2023 07:55:22



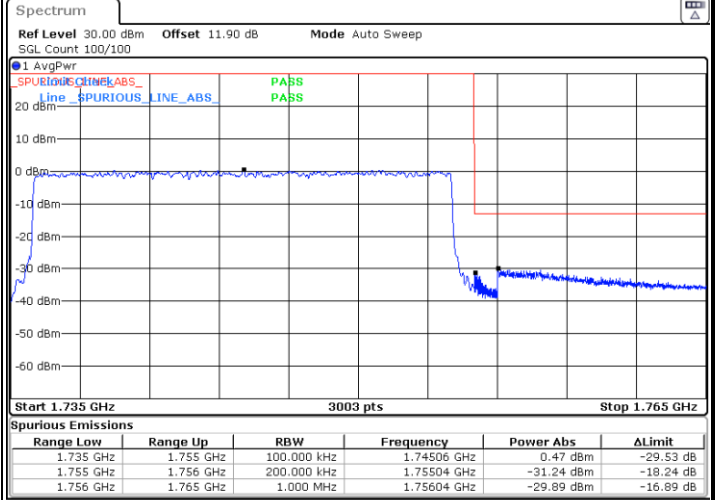
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 07:56:22

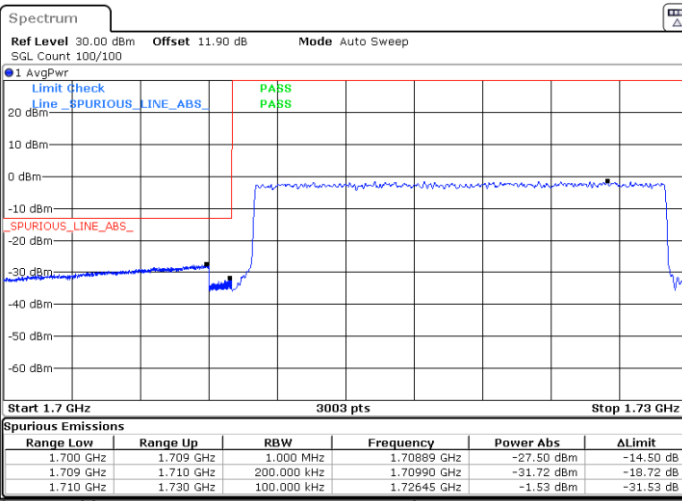
Highest Band Edge / Full RB



Date: 1.AUG.2023 07:58:04

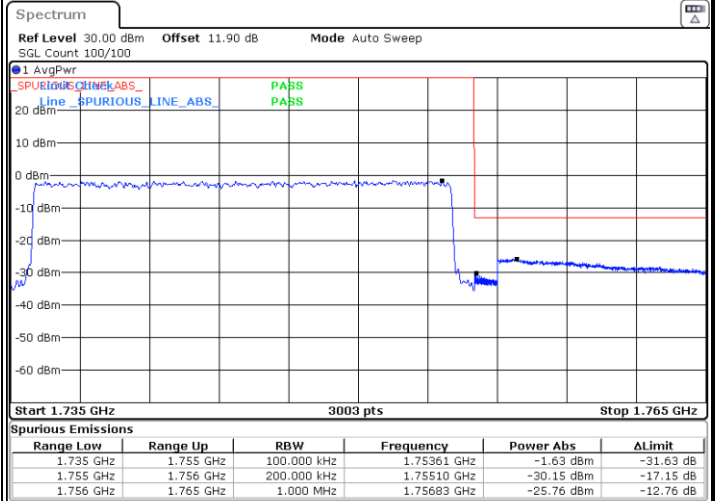
LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:18:35

Highest Band Edge / Full RB



Date: 1.AUG.2023 08:20:17

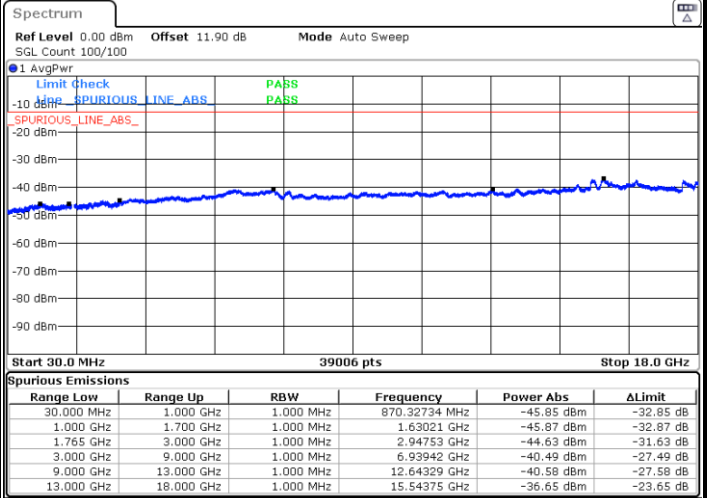
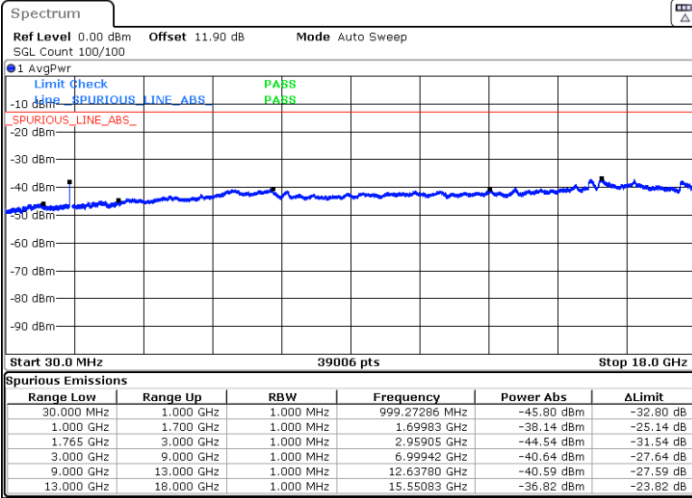


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

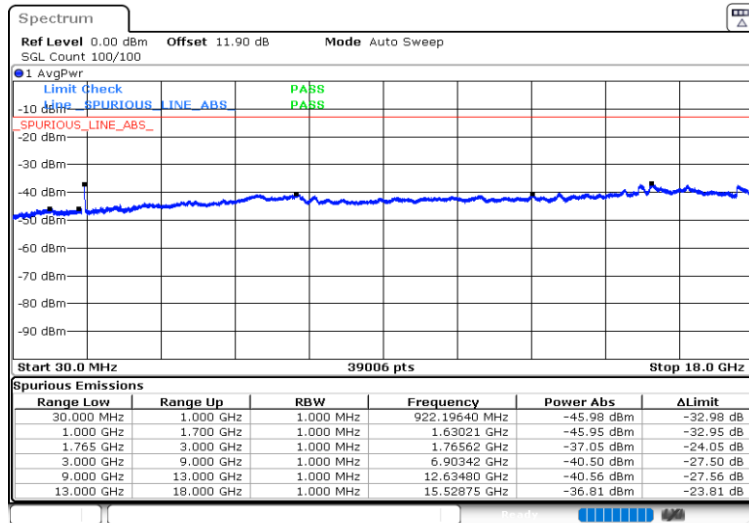
Middle Channel / QPSK



Date: 1.AUG.2023 06:42:55

Date: 1.AUG.2023 06:45:58

Highest Channel / QPSK



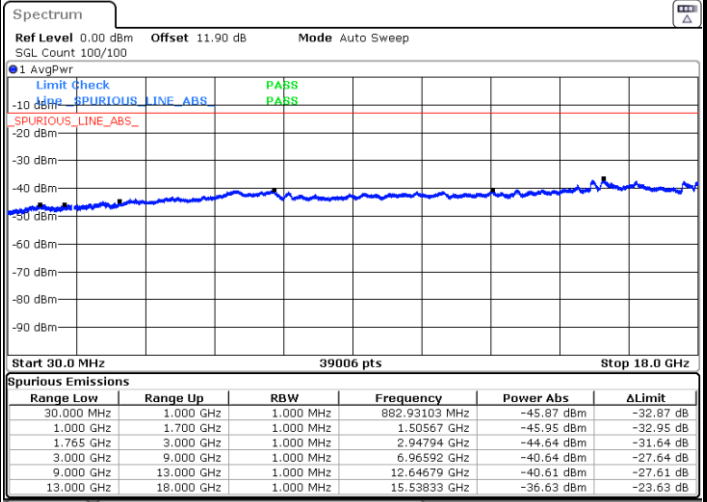
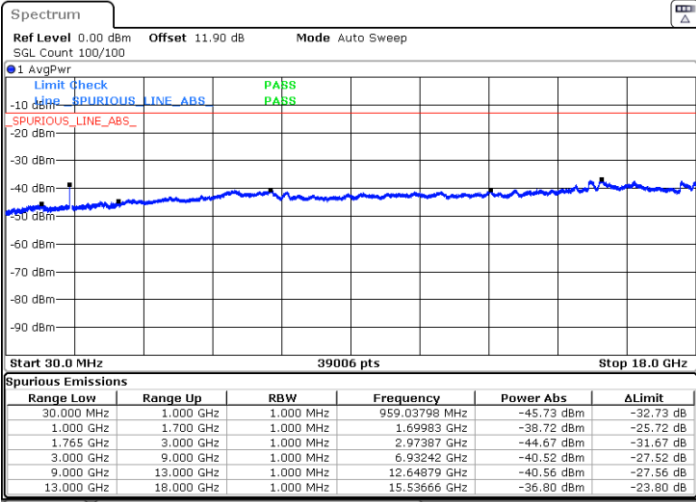
Date: 1.AUG.2023 06:51:04



LTE Band 4 / 3MHz

Lowest Channel / QPSK

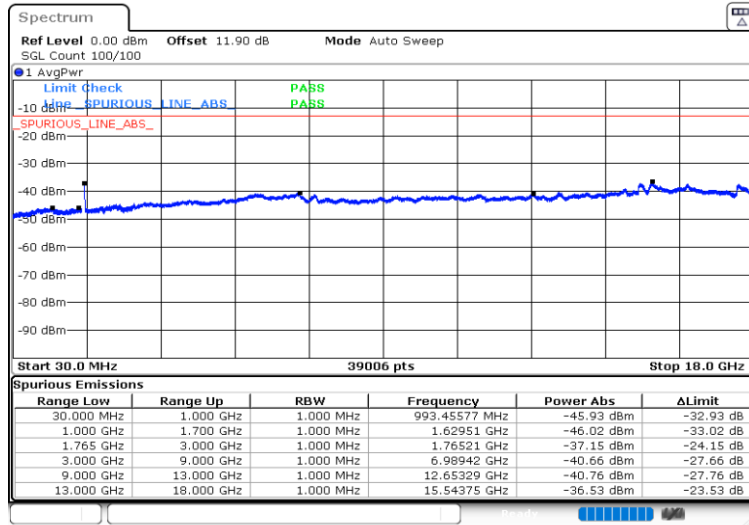
Middle Channel / QPSK



Date: 1.AUG.2023 07:01:51

Date: 1.AUG.2023 07:02:59

Highest Channel / QPSK



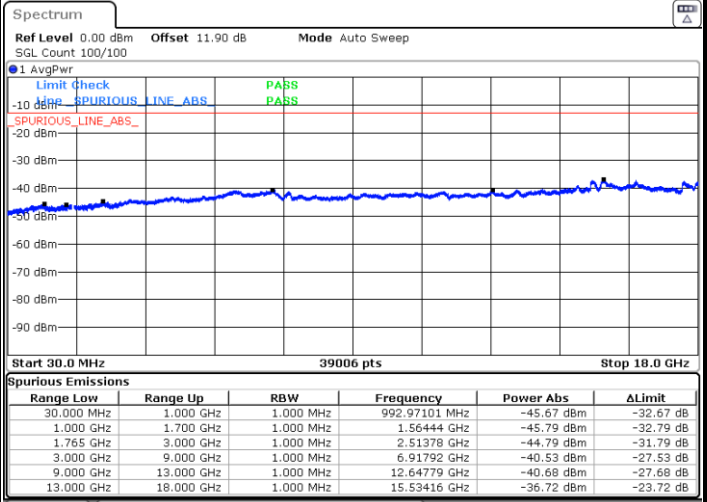
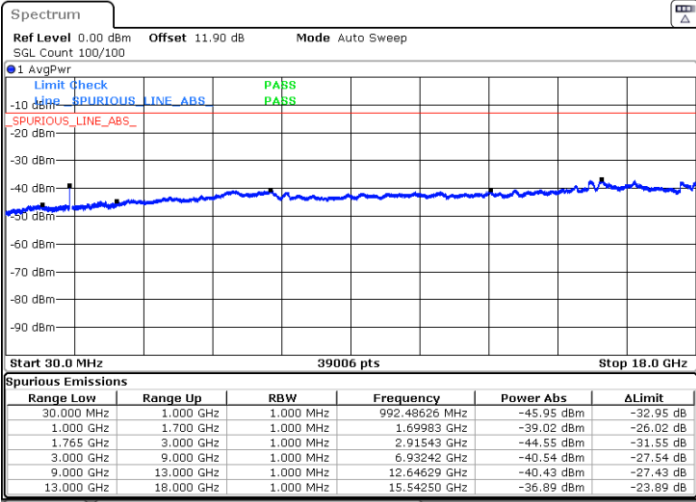
Date: 1.AUG.2023 07:04:07



LTE Band 4 / 5MHz

Lowest Channel / QPSK

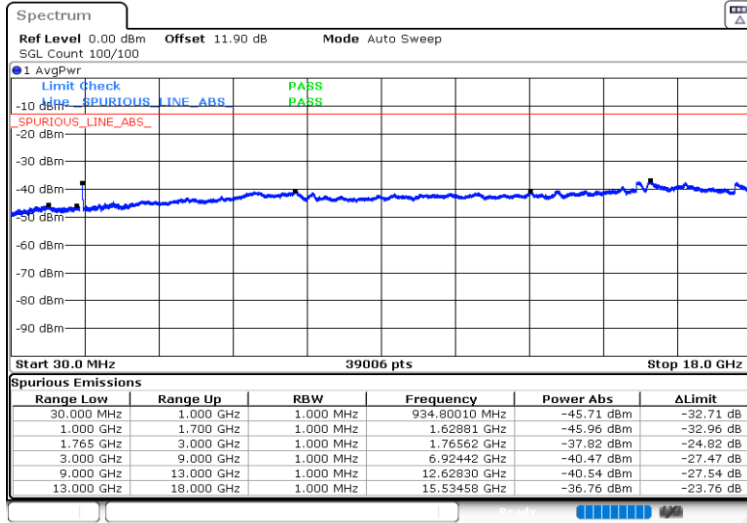
Middle Channel / QPSK



Date: 1.AUG.2023 07:12:41

Date: 1.AUG.2023 07:13:49

Highest Channel / QPSK



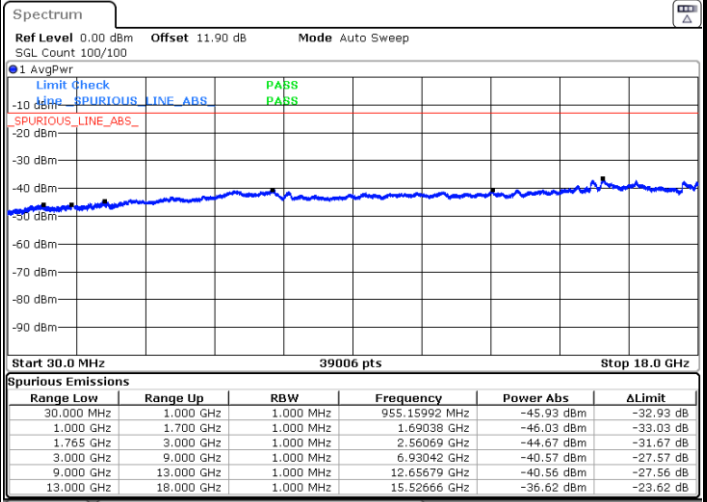
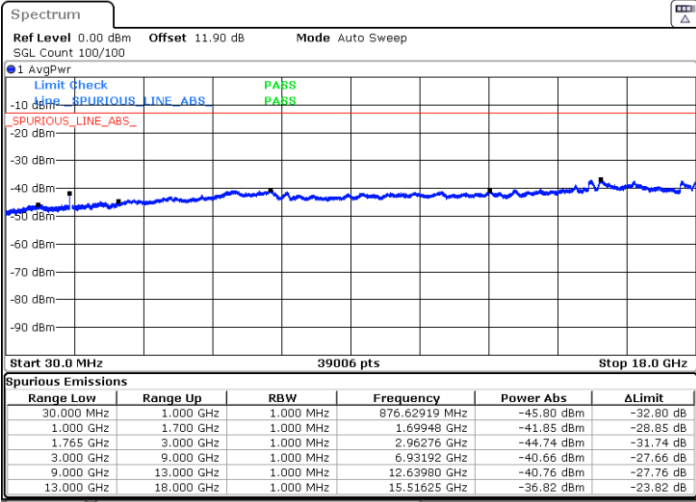
Date: 1.AUG.2023 07:14:57



LTE Band 4 / 10MHz

Lowest Channel / QPSK

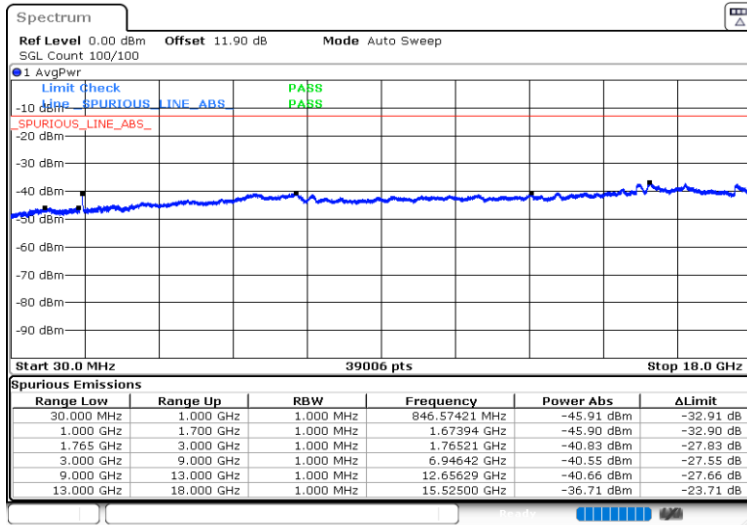
Middle Channel / QPSK



Date: 1.AUG.2023 07:30:39

Date: 1.AUG.2023 07:31:47

Highest Channel / QPSK



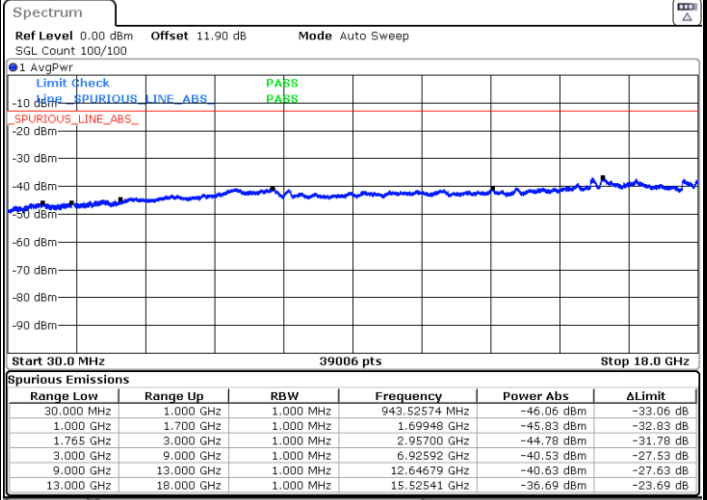
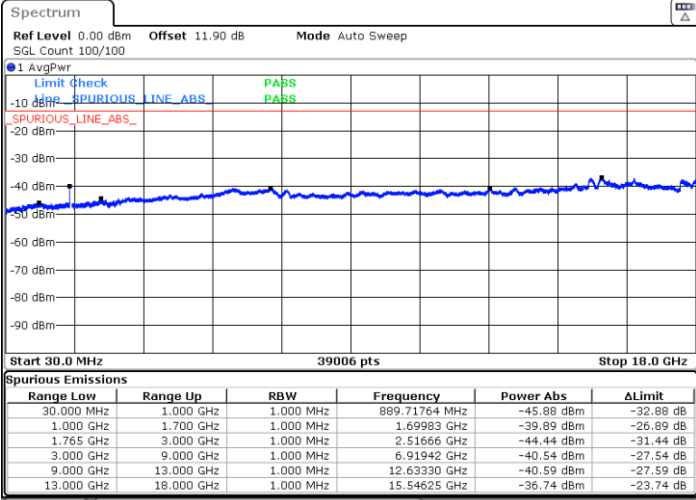
Date: 1.AUG.2023 07:32:55



LTE Band 4 / 15MHz

Lowest Channel / QPSK

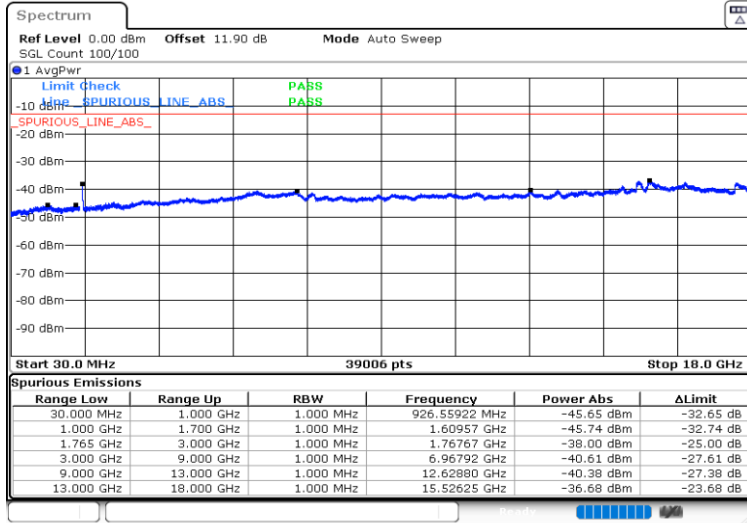
Middle Channel / QPSK



Date: 1.AUG.2023 07:39:02

Date: 1.AUG.2023 07:40:10

Highest Channel / QPSK



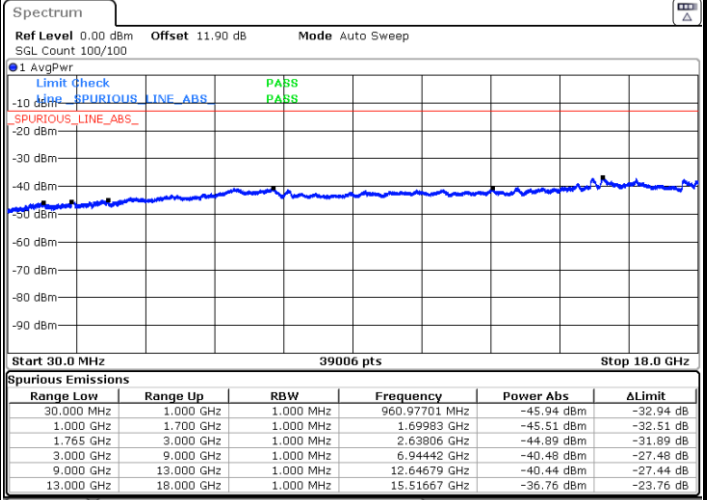
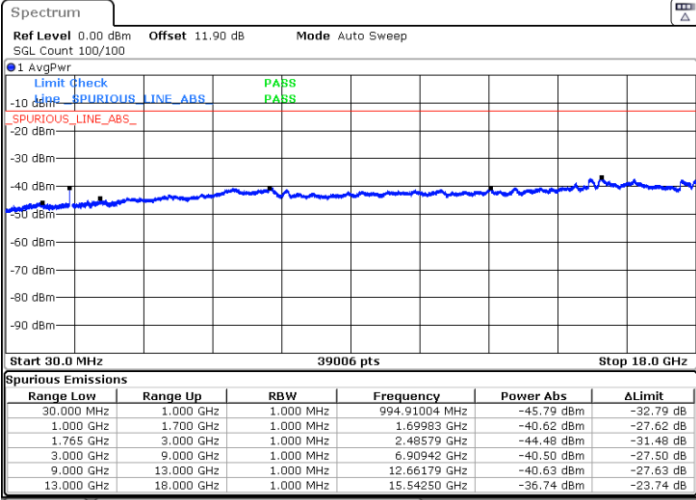
Date: 1.AUG.2023 07:41:18



LTE Band 4 / 20MHz

Lowest Channel / QPSK

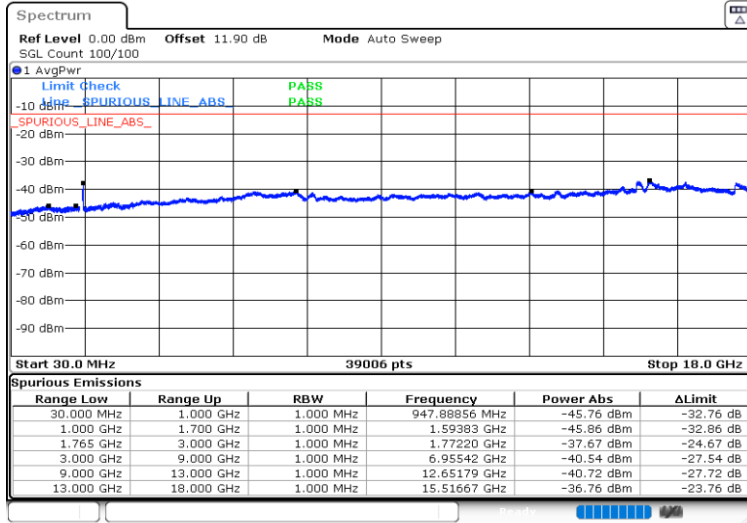
Middle Channel / QPSK



Date: 1.AUG.2023 07:51:07

Date: 1.AUG.2023 07:52:15

Highest Channel / QPSK



Date: 1.AUG.2023 07:53:23



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	0.0045	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0077	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0062	
0	Normal Voltage	0.0070	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0081	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0094	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0082	

Note:

- 1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

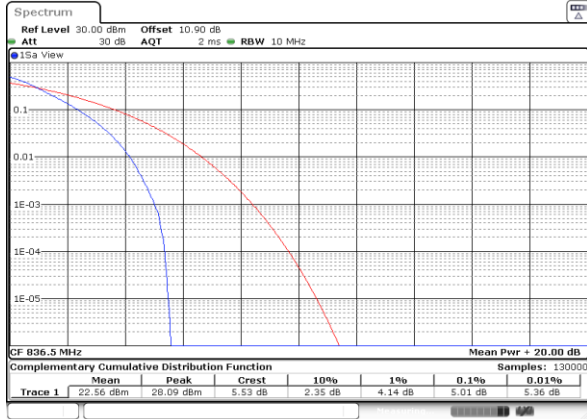
Peak-to-Average Ratio

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	5.01	6.00	6.43	6.84	PASS



LTE Band 5 / 10MHz / QPSK

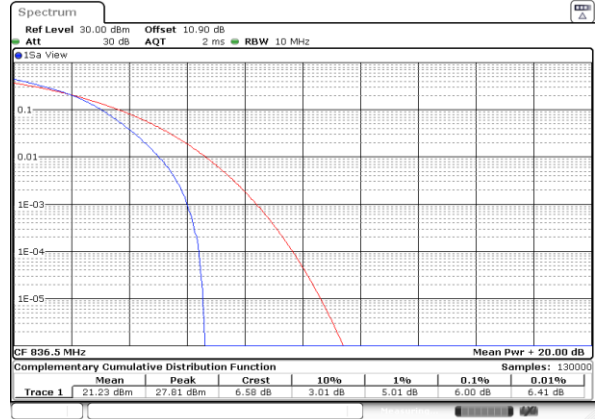
Middle Channel / Full RB



Date: 1.AUG.2023 20:59:02

LTE Band 5 / 10MHz / 16QAM

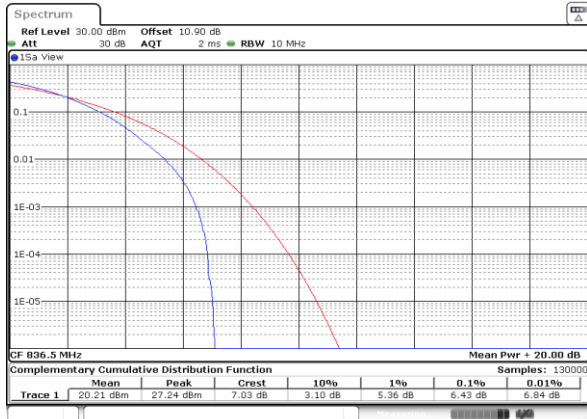
Middle Channel / Full RB



Date: 1.AUG.2023 20:59:32

LTE Band 5 / 10MHz / 64QAM

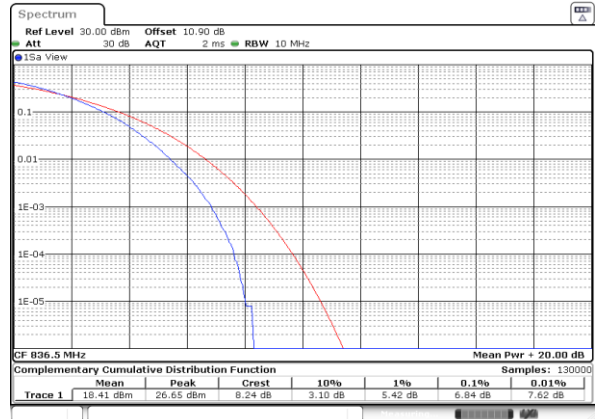
Middle Channel / Full RB



Date: 1.AUG.2023 21:00:31

LTE Band 5 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 1.AUG.2023 21:01:29



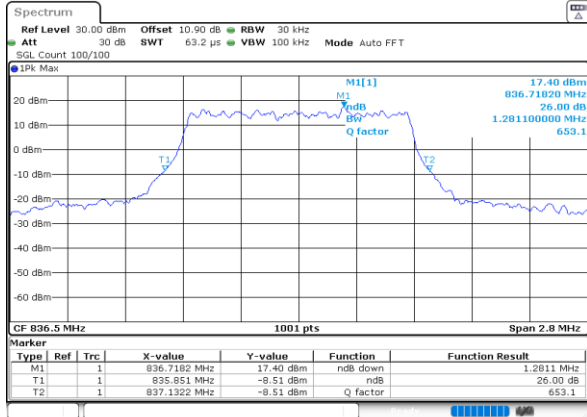
26dB Bandwidth

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	1.28	1.31	3.07	3.17	4.88	5.13	10.45	9.99	-	-	-	-
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	1.32	1.31	3.06	3.12	5.06	5.14	10.19	10.27	-	-	-	-



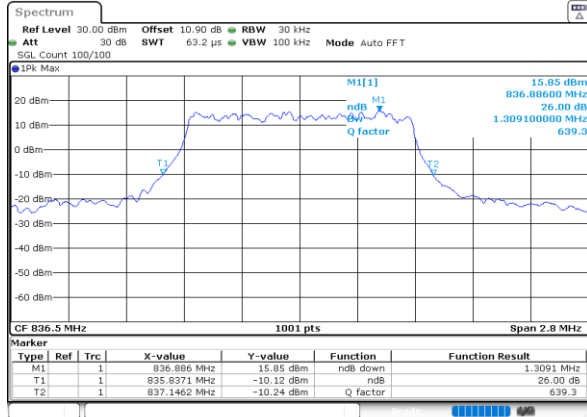
LTE Band 5

Middle Channel / 1.4MHz / QPSK



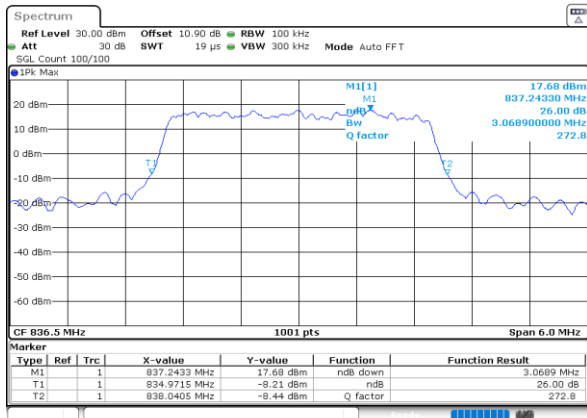
Date: 1.AUG.2023 19:45:35

Middle Channel / 1.4MHz / 16QAM



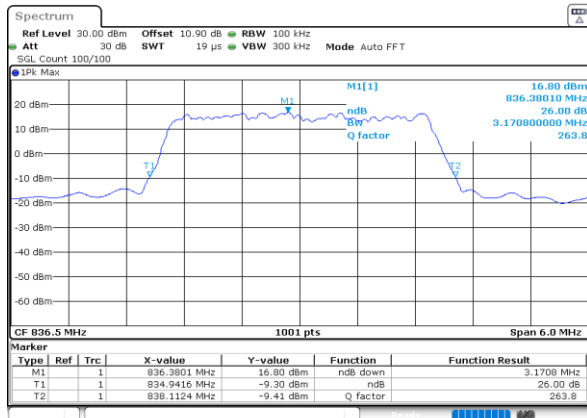
Date: 1.AUG.2023 19:46:18

Middle Channel / 3MHz / QPSK



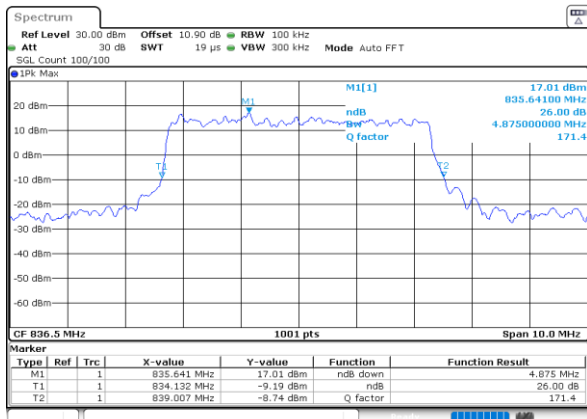
Date: 1.AUG.2023 20:36:57

Middle Channel / 3MHz / 16QAM



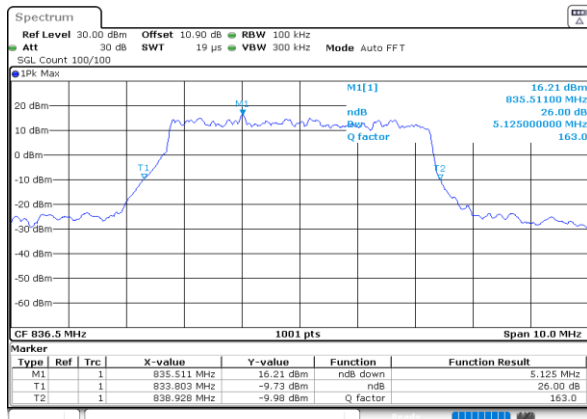
Date: 1.AUG.2023 20:37:40

Middle Channel / 5MHz / QPSK



Date: 1.AUG.2023 20:47:52

Middle Channel / 5MHz / 16QAM

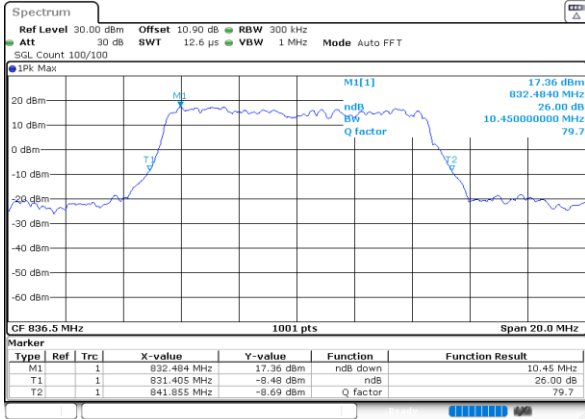


Date: 1.AUG.2023 20:48:35



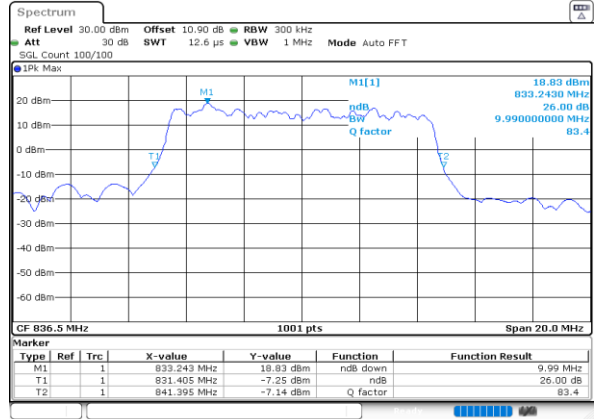
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 1.AUG.2023 20:58:47

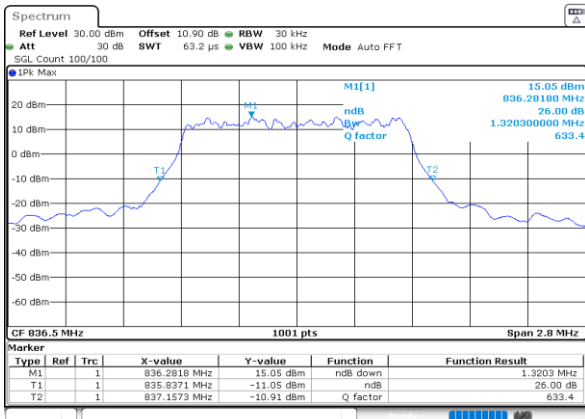
Middle Channel / 10MHz / 16QAM



Date: 1.AUG.2023 21:00:01

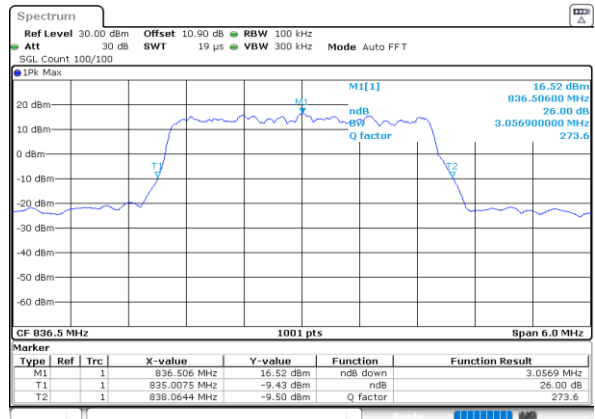
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



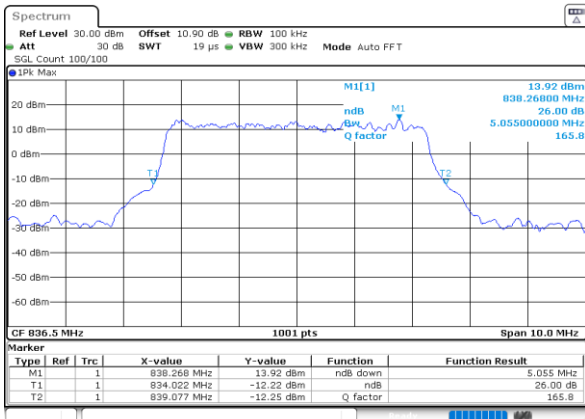
Date: 1.AUG.2023 19:47:01

Middle Channel / 3MHz / 64QAM



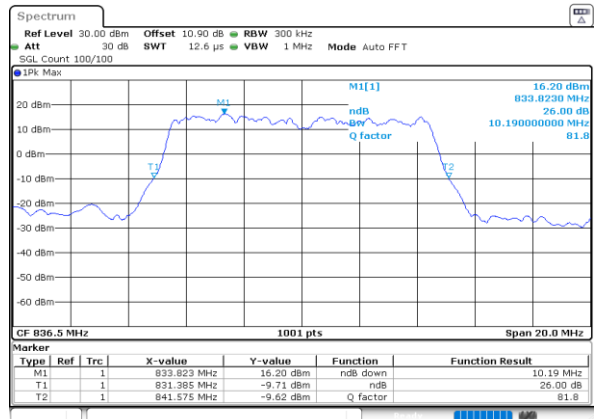
Date: 1.AUG.2023 20:38:23

Middle Channel / 5MHz / 64QAM



Date: 1.AUG.2023 20:49:18

Middle Channel / 10MHz / 64QAM

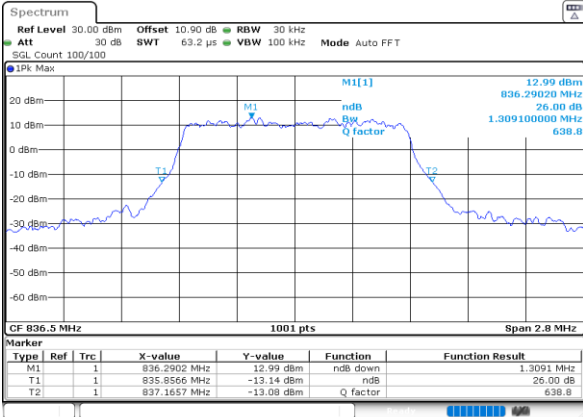


Date: 1.AUG.2023 21:00:59

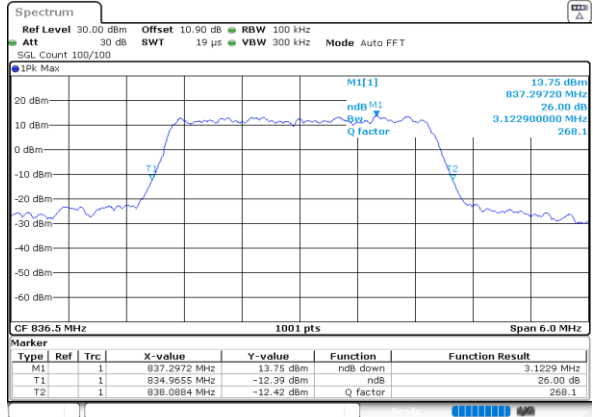


LTE Band 5

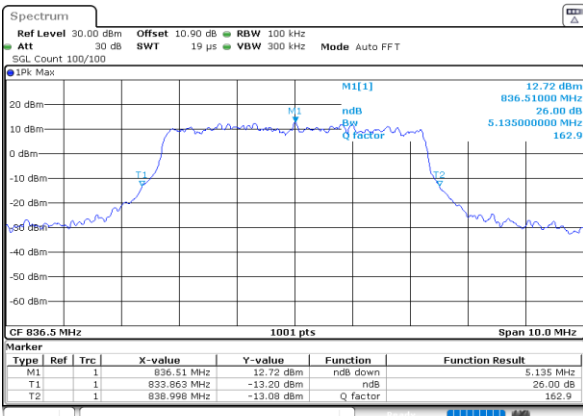
Middle Channel / 1.4MHz / 256QAM



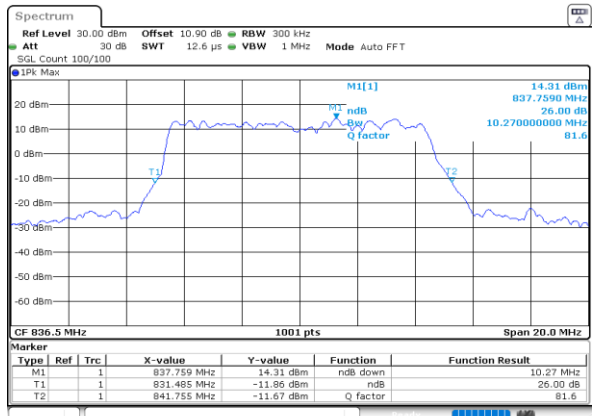
Middle Channel / 3MHz / 256QAM



Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM





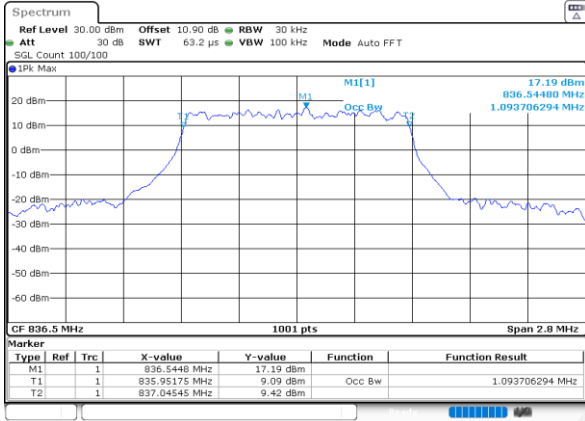
Occupied Bandwidth

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	1.09	1.10	2.73	2.73	4.52	4.54	9.09	9.01	-	-	-	-
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	2.74	2.75	4.50	4.52	9.07	9.05	-	-	-	-



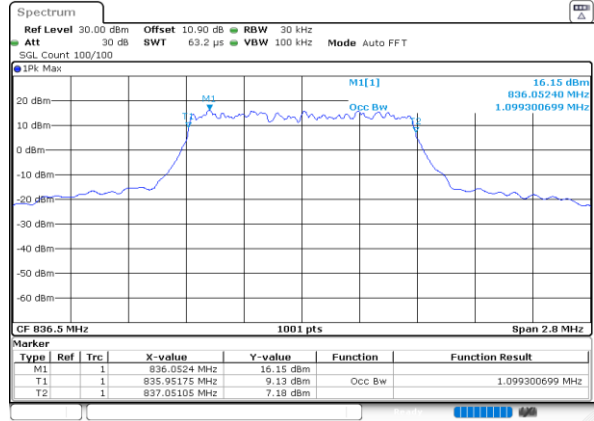
LTE Band 5

Middle Channel / 1.4MHz / QPSK



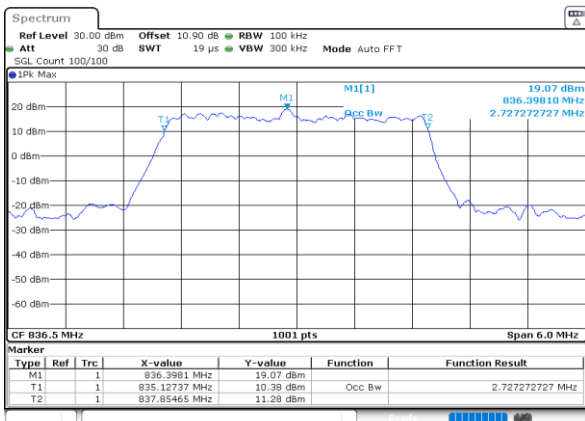
Date: 1.AUG.2023 19:45:21

Middle Channel / 1.4MHz / 16QAM



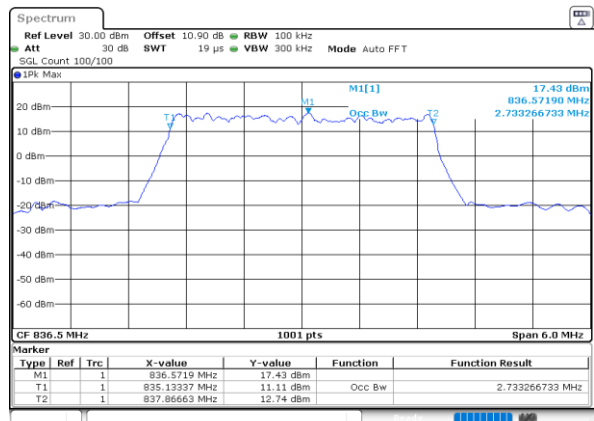
Date: 1.AUG.2023 19:46:04

Middle Channel / 3MHz / QPSK



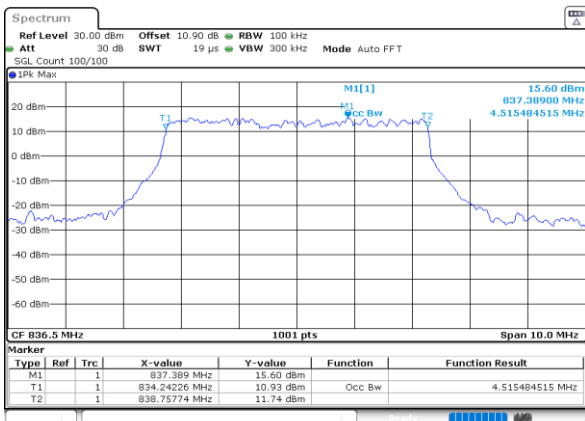
Date: 1.AUG.2023 20:13:43

Middle Channel / 3MHz / 16QAM



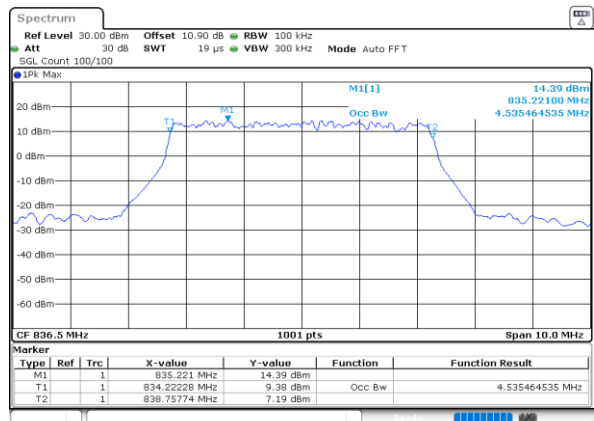
Date: 1.AUG.2023 20:13:26

Middle Channel / 5MHz / QPSK



Date: 1.AUG.2023 20:47:38

Middle Channel / 5MHz / 16QAM

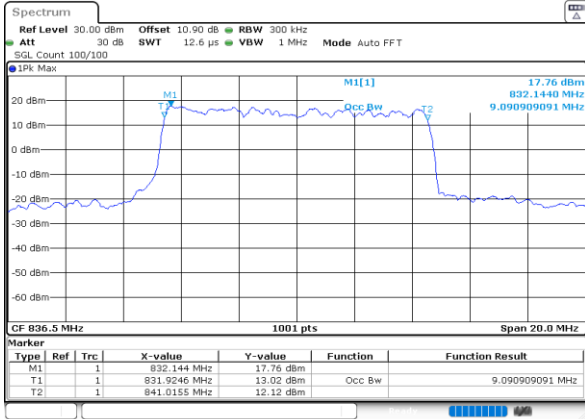


Date: 1.AUG.2023 20:48:21



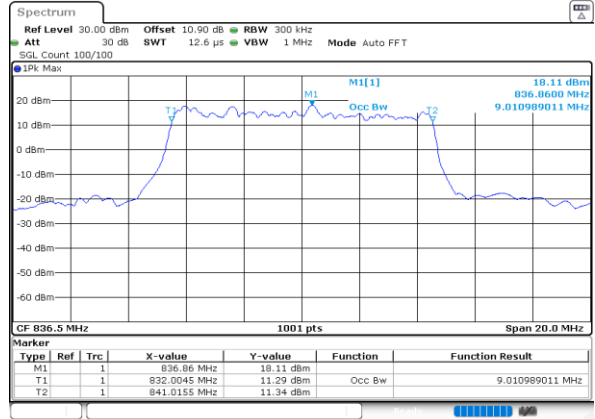
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 1.AUG.2023 20:58:33

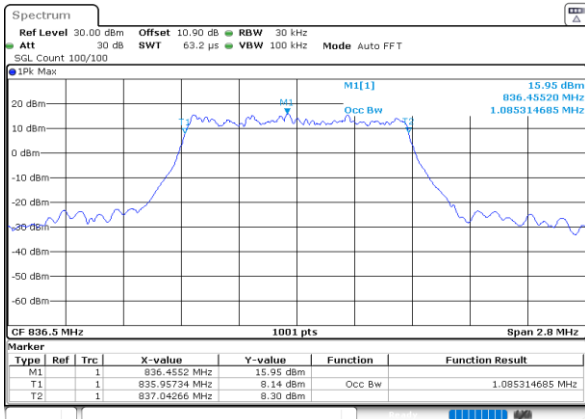
Middle Channel / 10MHz / 16QAM



Date: 1.AUG.2023 20:59:47

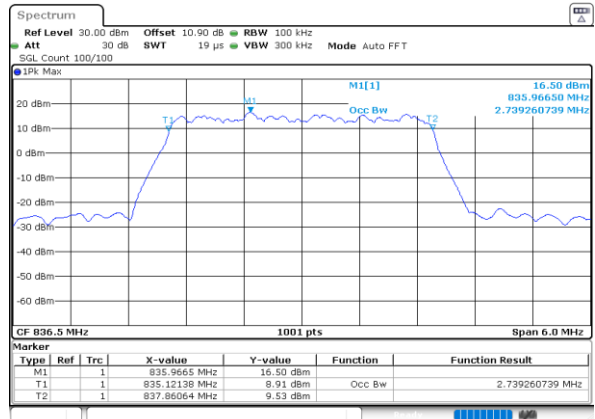
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



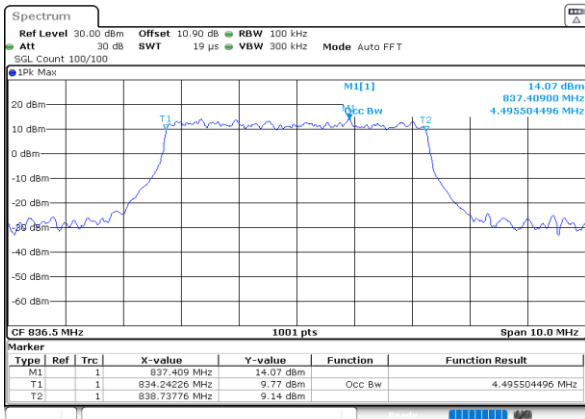
Date: 1.AUG.2023 19:46:47

Middle Channel / 3MHz / 64QAM



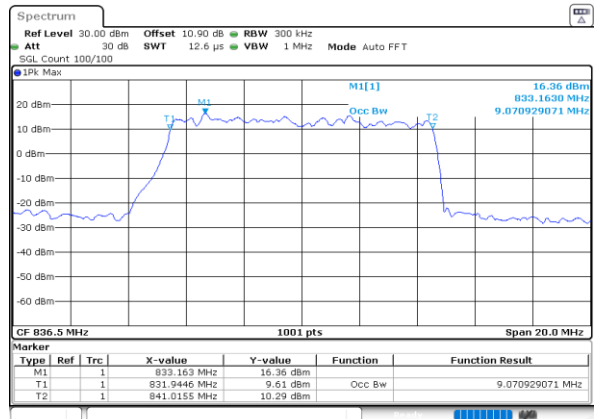
Date: 1.AUG.2023 20:38:09

Middle Channel / 5MHz / 64QAM



Date: 1.AUG.2023 20:49:04

Middle Channel / 10MHz / 64QAM

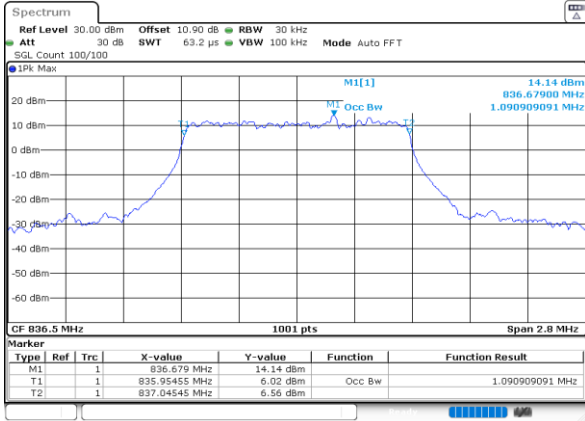


Date: 1.AUG.2023 21:00:45



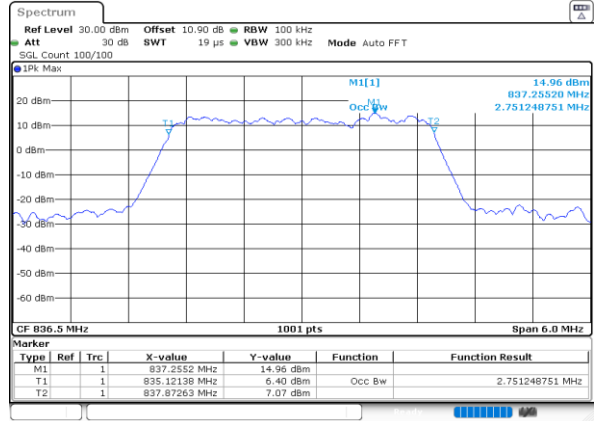
LTE Band 5

Middle Channel / 1.4MHz / 256QAM



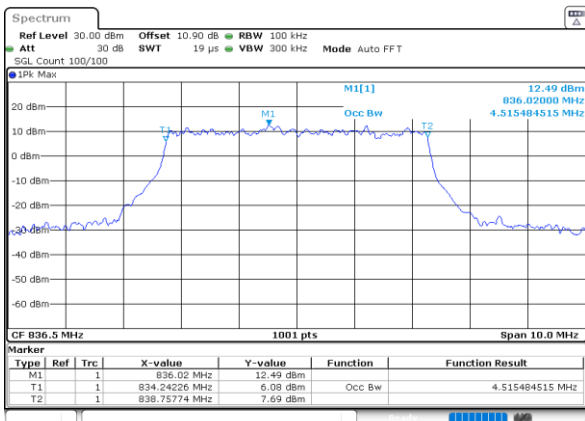
Date: 1.AUG.2023 19:47:29

Middle Channel / 3MHz / 256QAM



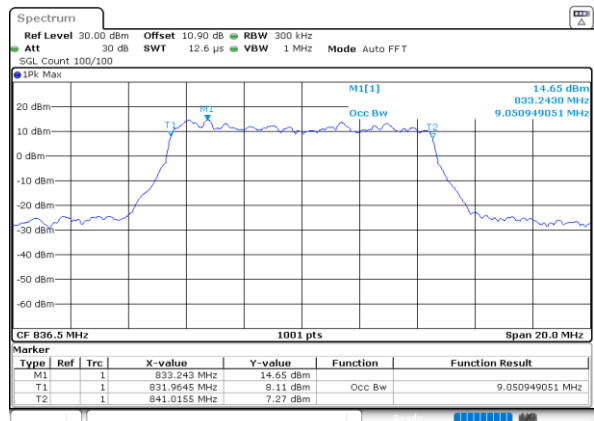
Date: 1.AUG.2023 20:38:52

Middle Channel / 5MHz / 256QAM



Date: 1.AUG.2023 20:49:47

Middle Channel / 10MHz / 256QAM



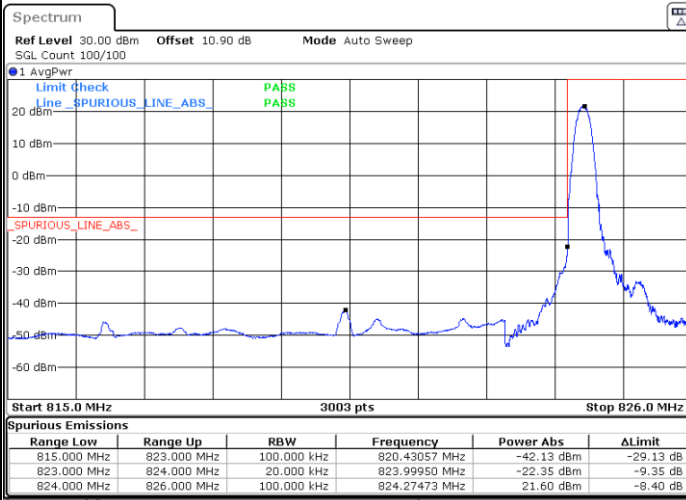
Date: 1.AUG.2023 21:01:44



Conducted Band Edge

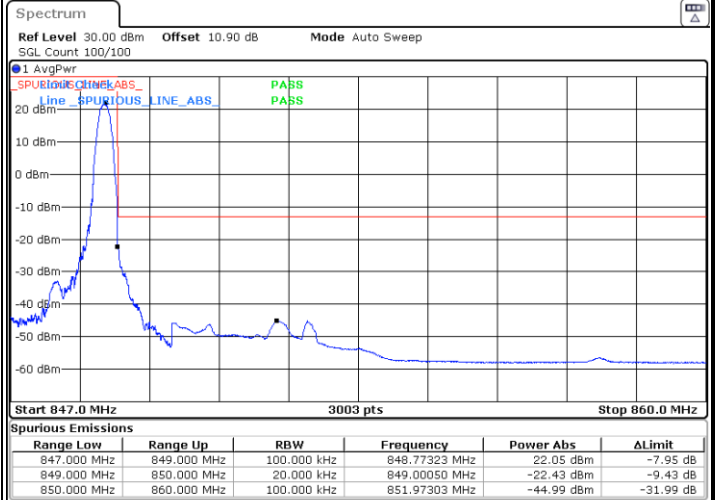
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



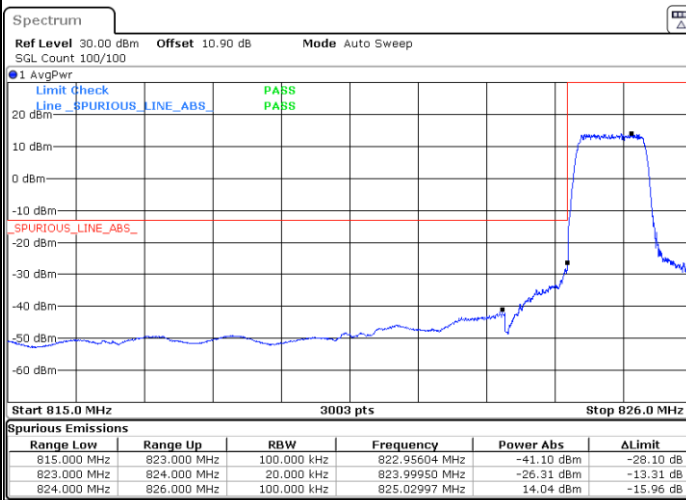
Date: 1.AUG.2023 19:35:35

Highest Band Edge / 1RB



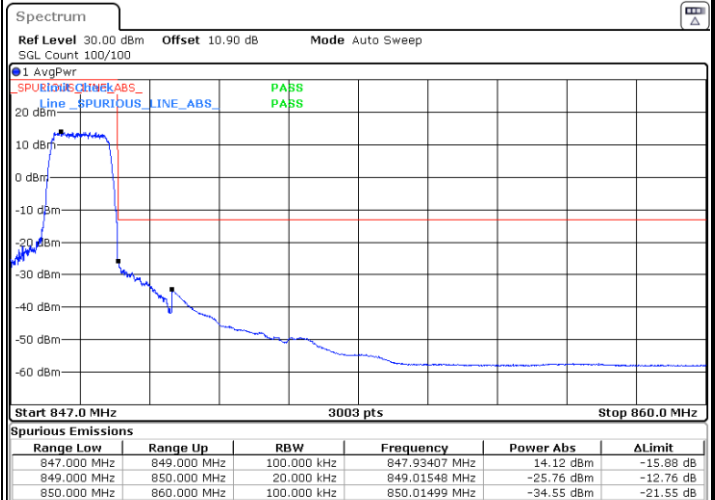
Date: 1.AUG.2023 19:52:41

Lowest Band Edge / Full RB



Date: 1.AUG.2023 19:40:43

Highest Band Edge / Full RB

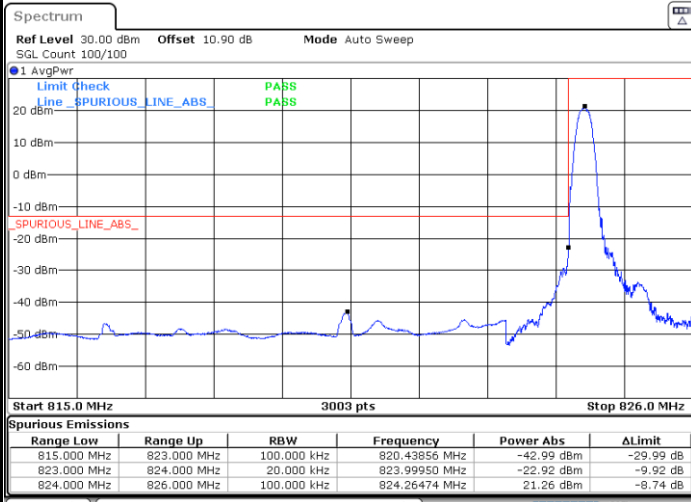


Date: 1.AUG.2023 19:48:42

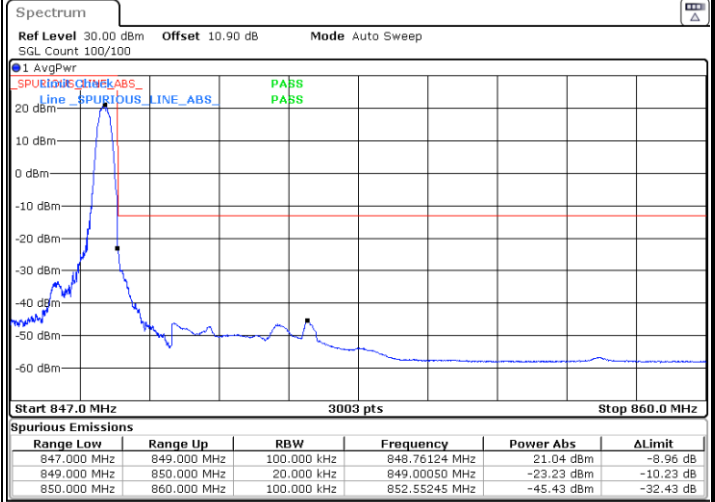


LTE Band 5 / 1.4MHz / 16QAM

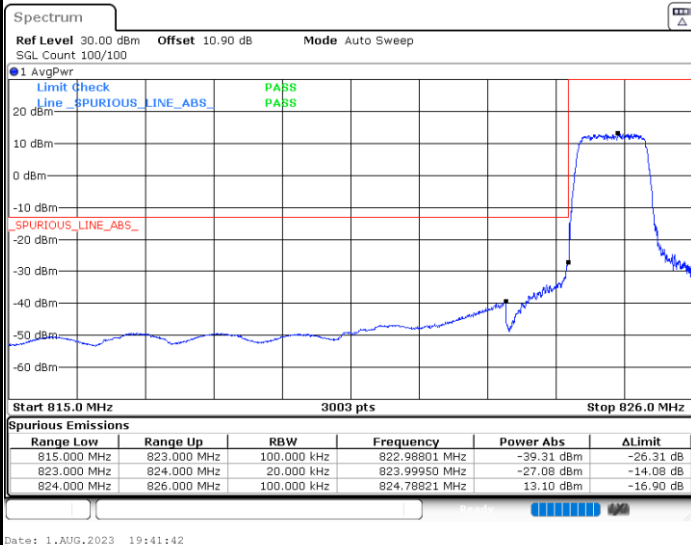
Lowest Band Edge / 1 RB



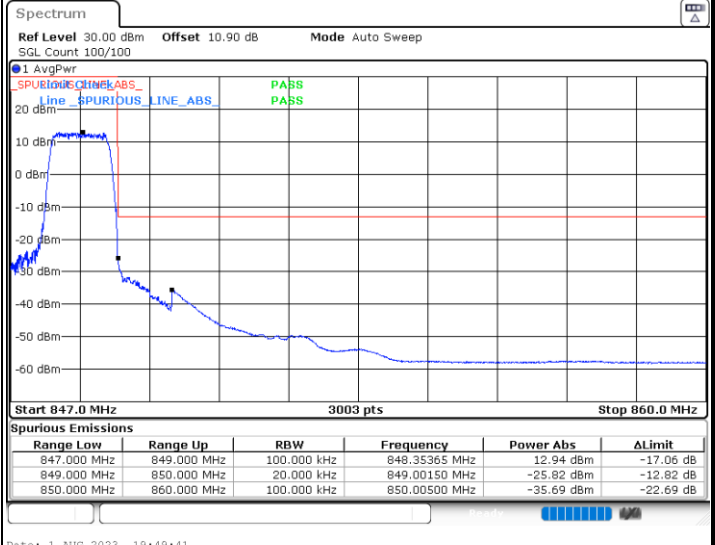
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



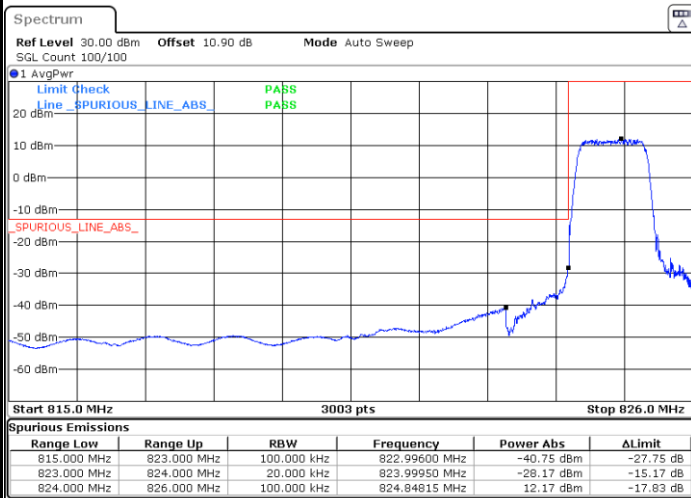
Date: 1.AUG.2023 19:37:34

Highest Band Edge / 1 RB



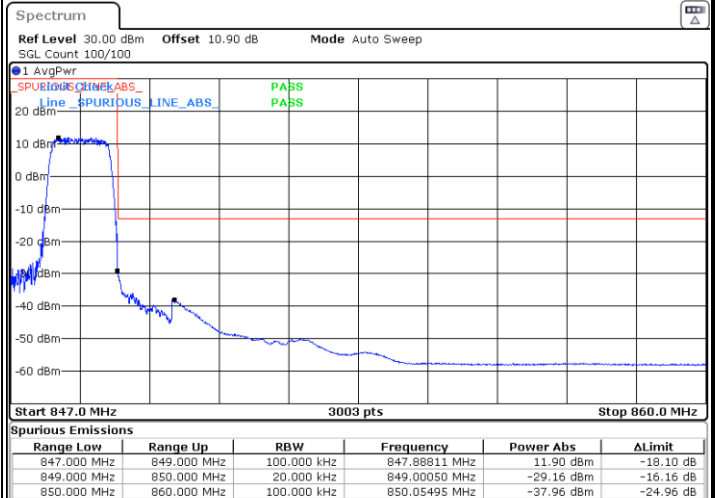
Date: 2.AUG.2023 20:29:45

Lowest Band Edge / Full RB



Date: 1.AUG.2023 19:42:42

Highest Band Edge / Full RB

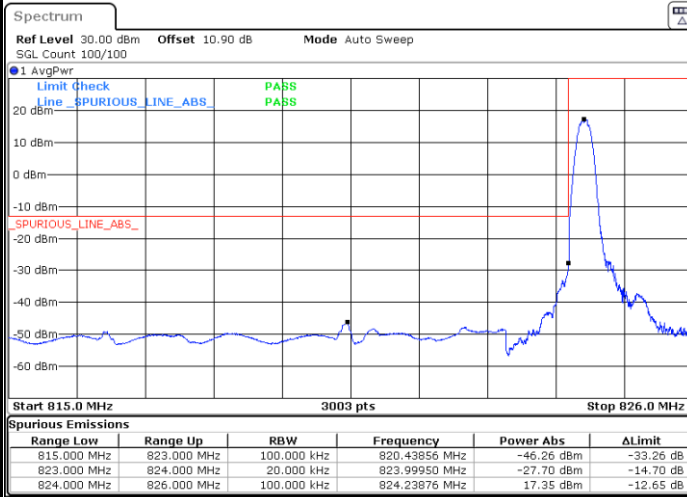


Date: 1.AUG.2023 19:50:41



LTE Band 5 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



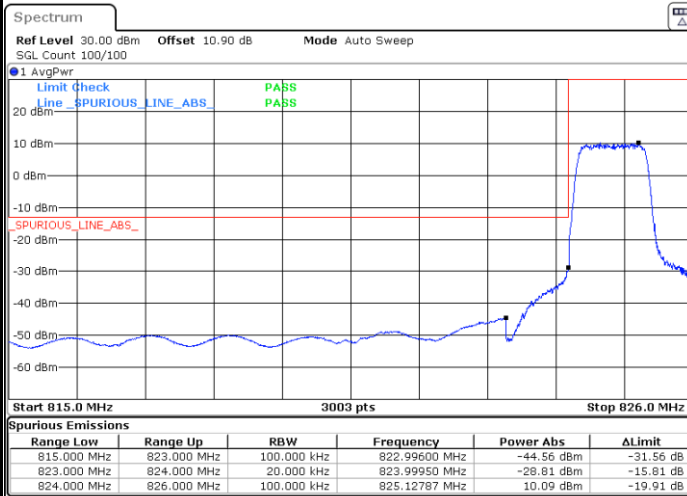
Date: 1.AUG.2023 19:38:35

Highest Band Edge / 1 RB



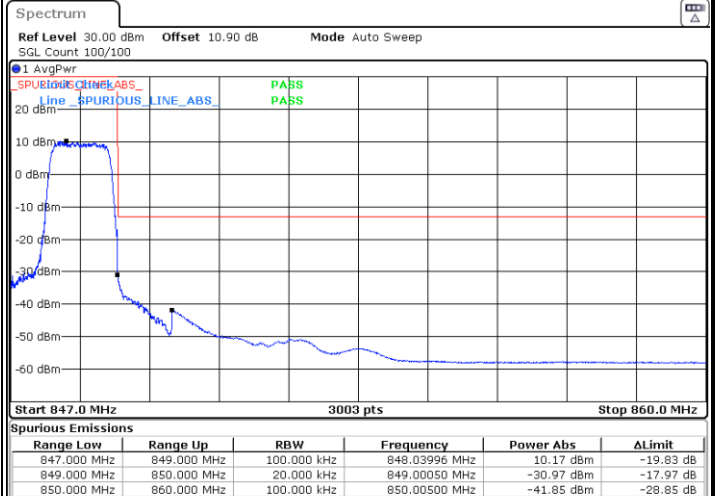
Date: 1.AUG.2023 20:31:01

Lowest Band Edge / Full RB



Date: 1.AUG.2023 19:43:42

Highest Band Edge / Full RB



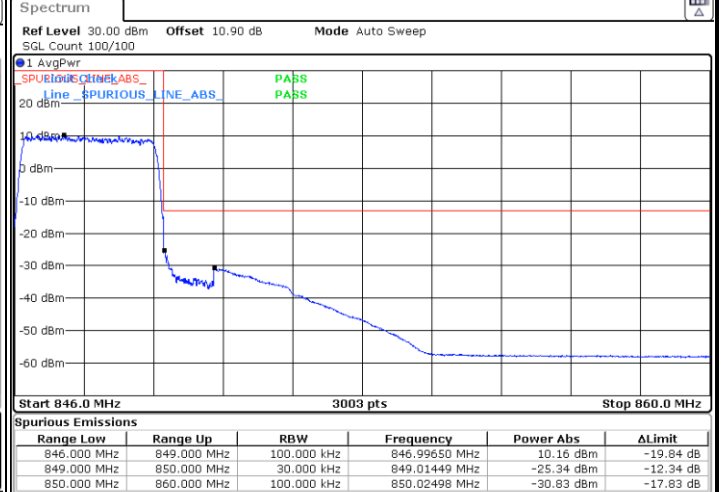
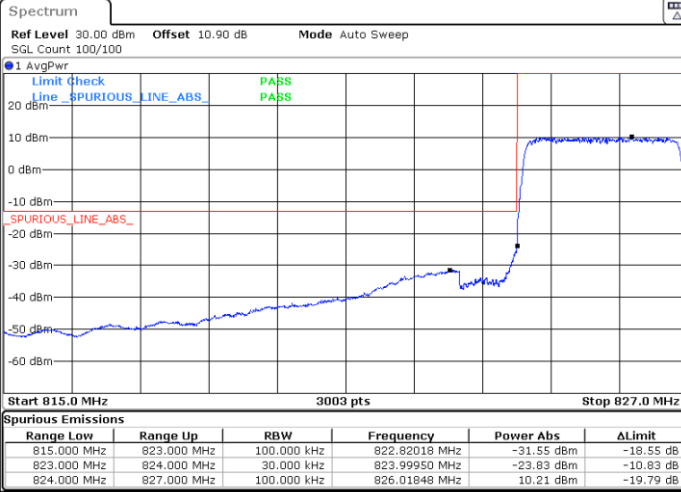
Date: 1.AUG.2023 19:51:41



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



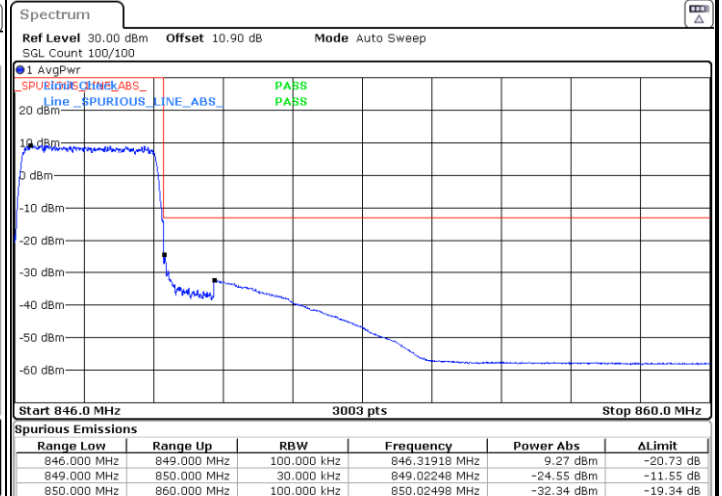
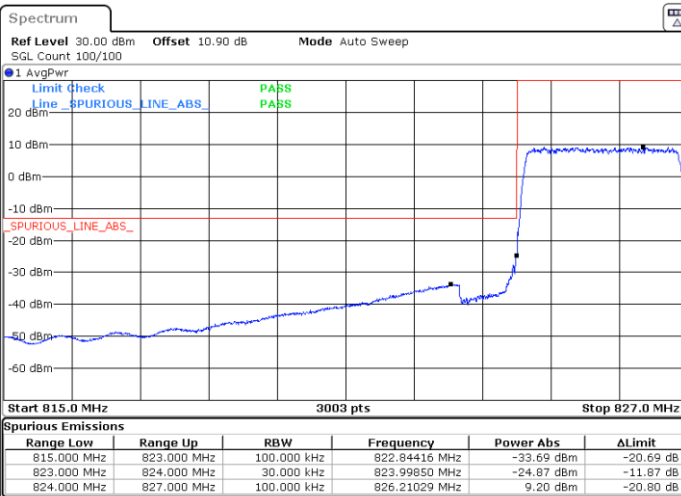
Date: 1.AUG.2023 20:33:14

Date: 1.AUG.2023 20:40:04

LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.AUG.2023 20:34:14

Date: 1.AUG.2023 20:41:04