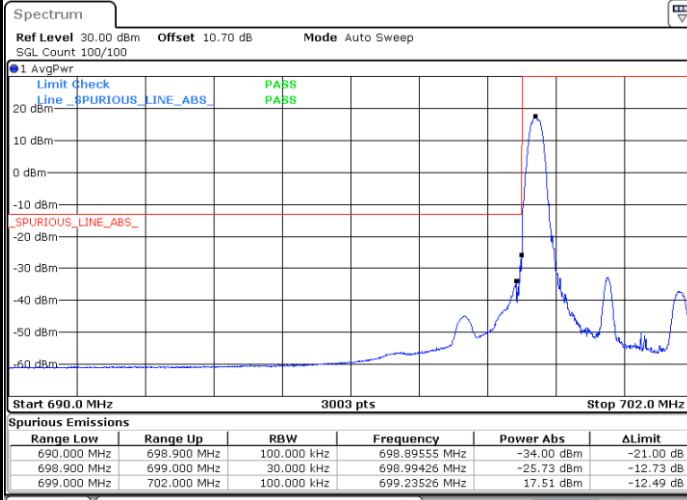


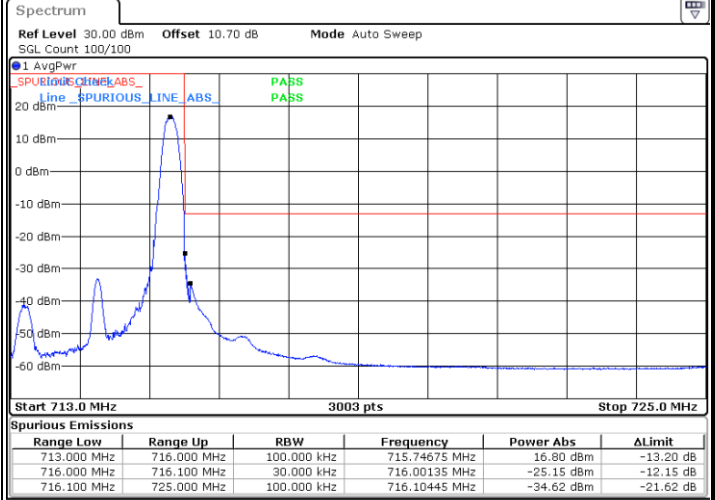


LTE Band 12 / 3MHz / 256QAM

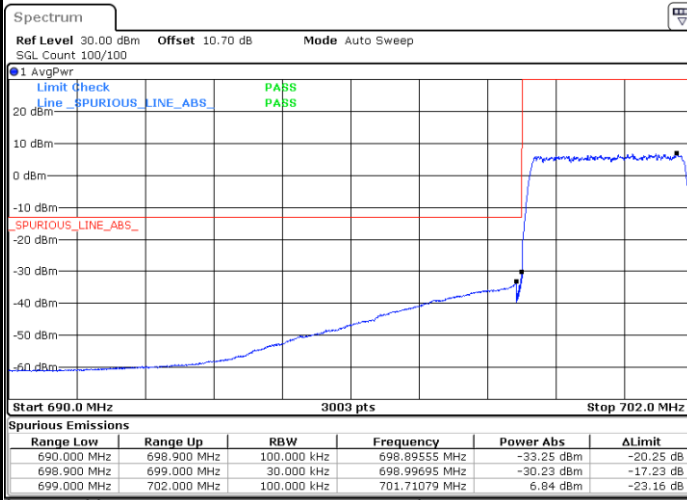
Lowest Band Edge / 1 RB



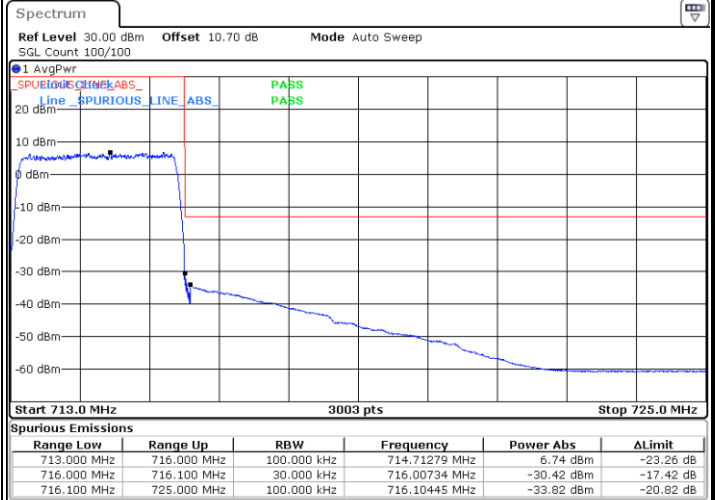
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



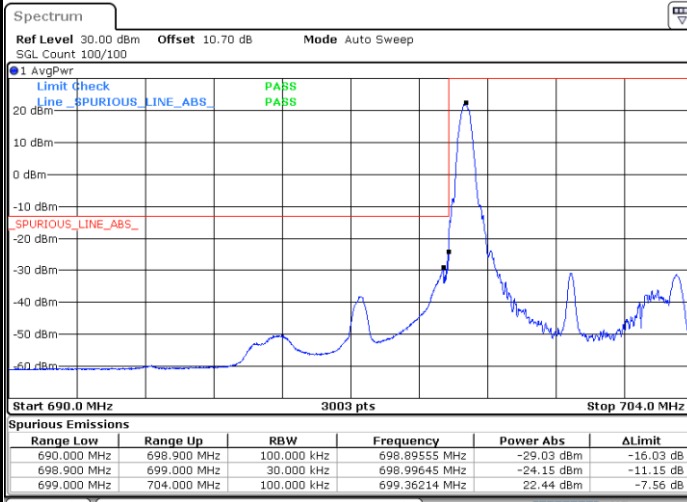
Highest Band Edge / Full RB





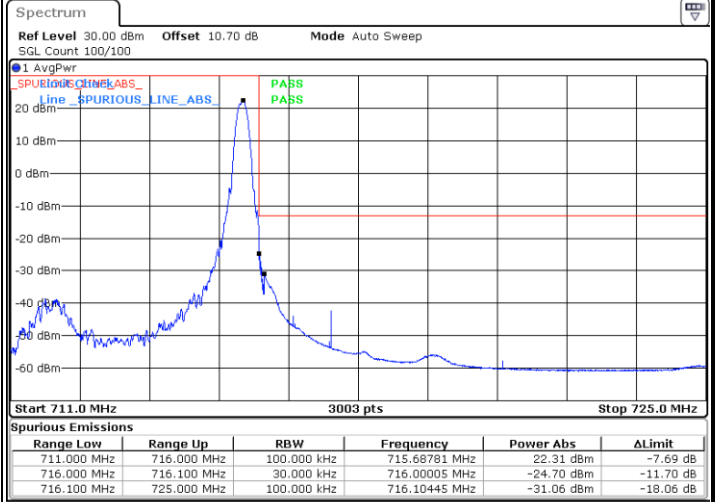
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



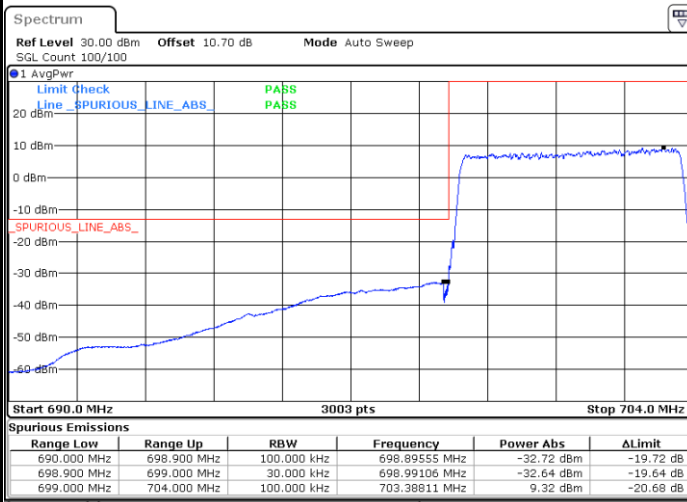
Date: 2.SEP.2022 11:10:39

Highest Band Edge / 1 RB



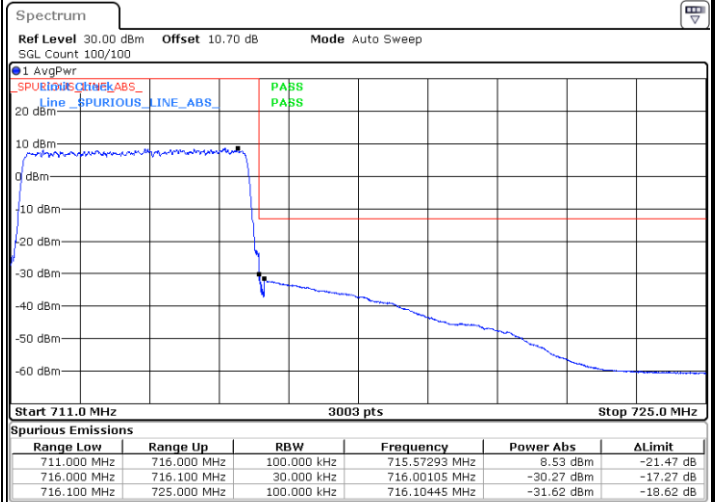
Date: 2.SEP.2022 11:17:24

Lowest Band Edge / Full RB



Date: 2.SEP.2022 11:07:54

Highest Band Edge / Full RB

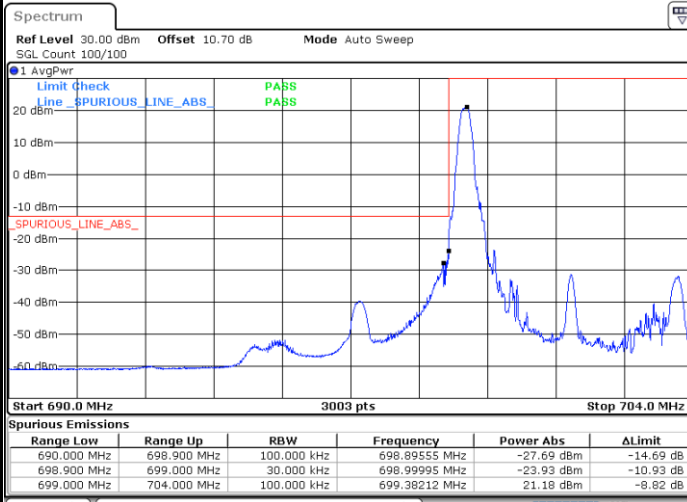


Date: 2.SEP.2022 11:15:35



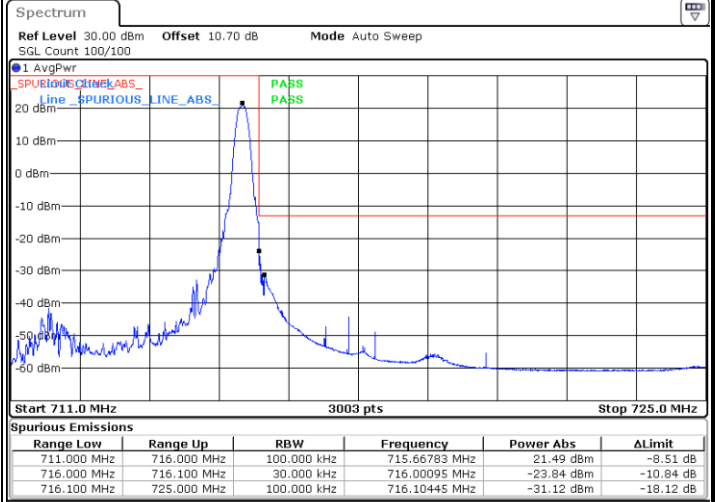
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



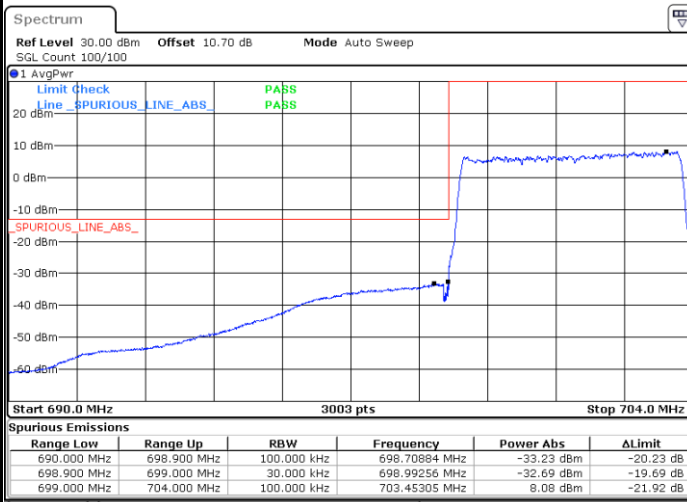
Date: 2.SEP.2022 11:09:44

Highest Band Edge / 1 RB



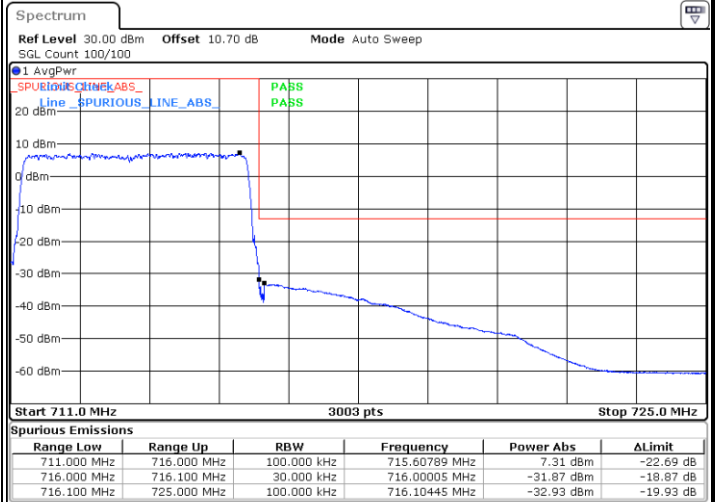
Date: 2.SEP.2022 11:18:19

Lowest Band Edge / Full RB



Date: 2.SEP.2022 11:08:49

Highest Band Edge / Full RB

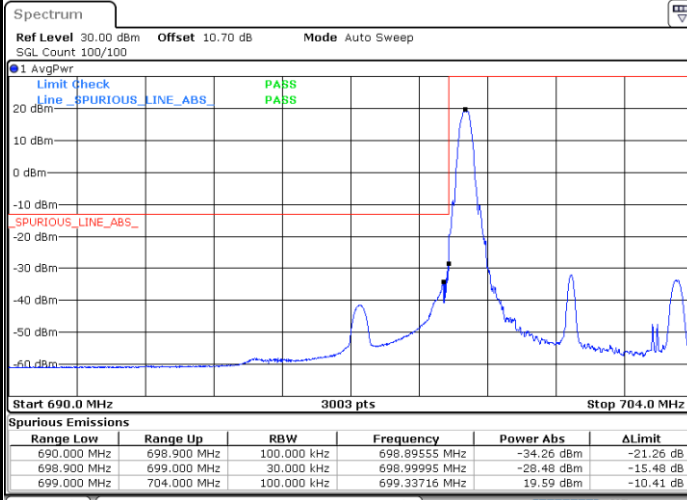


Date: 2.SEP.2022 11:16:29



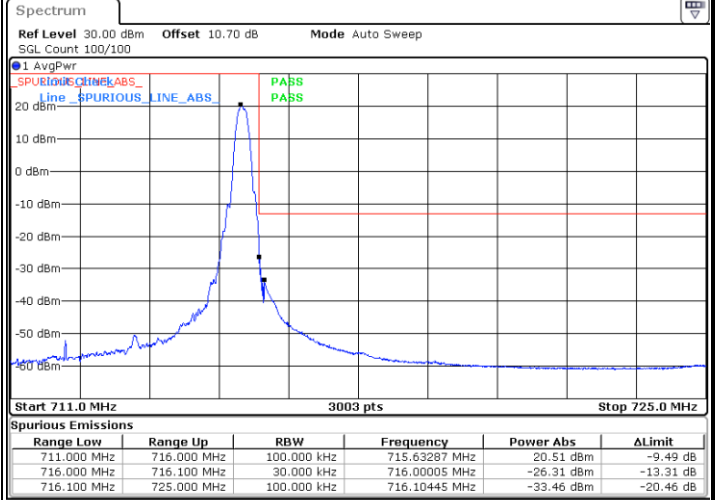
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



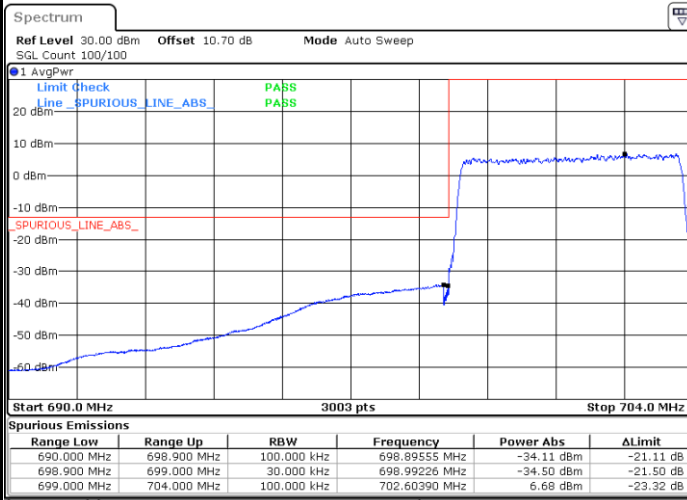
Date: 2.SEP.2022 11:04:22

Highest Band Edge / 1 RB



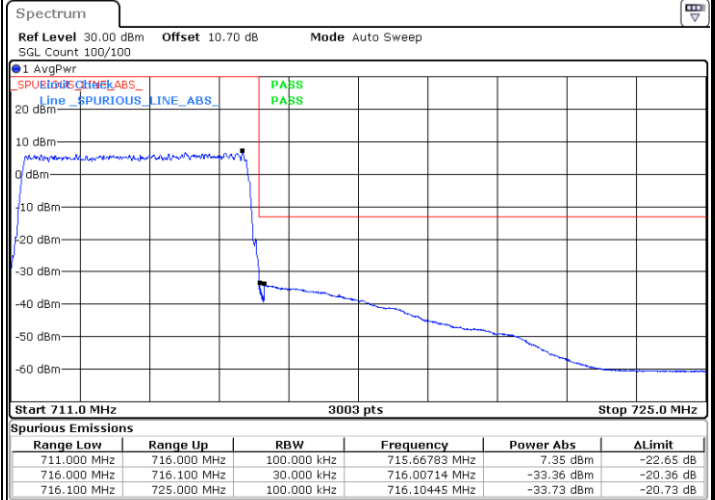
Date: 2.SEP.2022 11:06:59

Lowest Band Edge / Full RB



Date: 2.SEP.2022 11:03:28

Highest Band Edge / Full RB

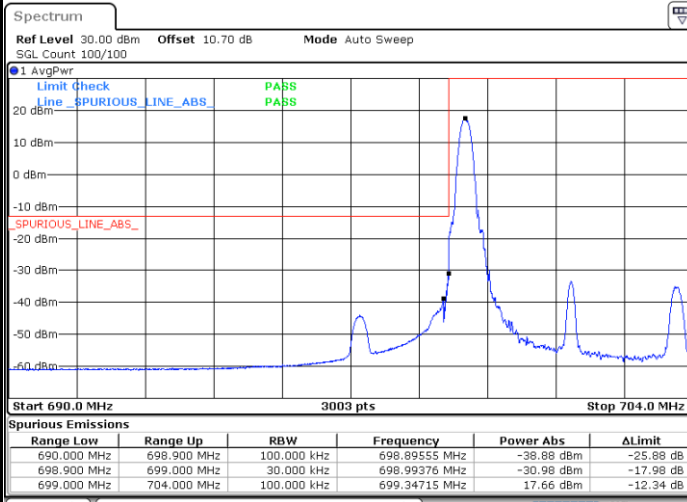


Date: 2.SEP.2022 11:06:04



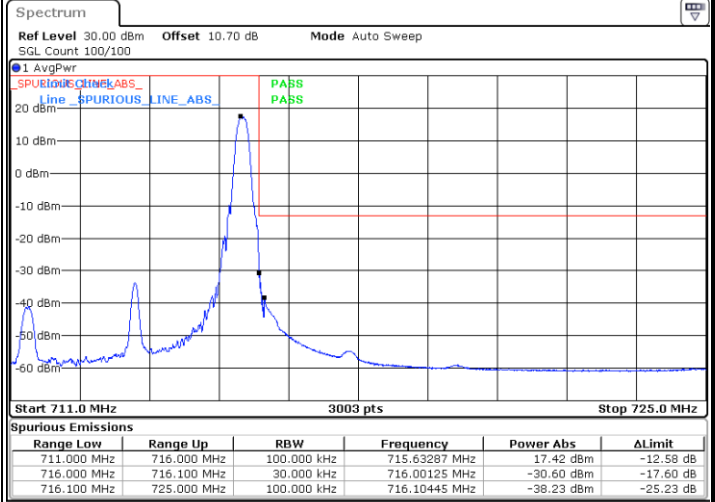
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



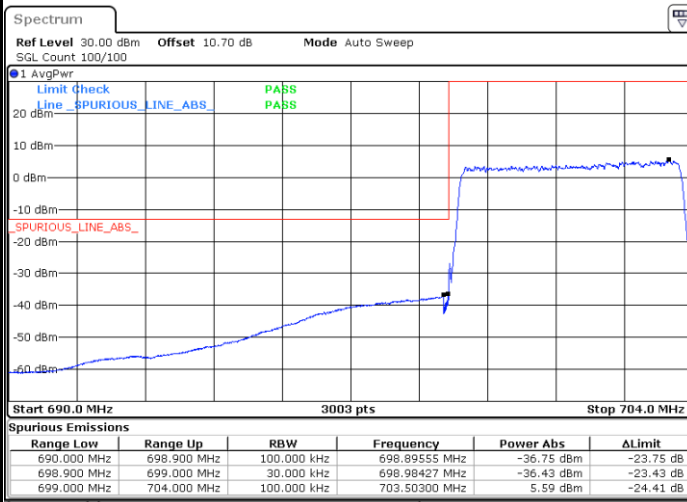
Date: 2.SEP.2022 11:57:54

Highest Band Edge / 1 RB



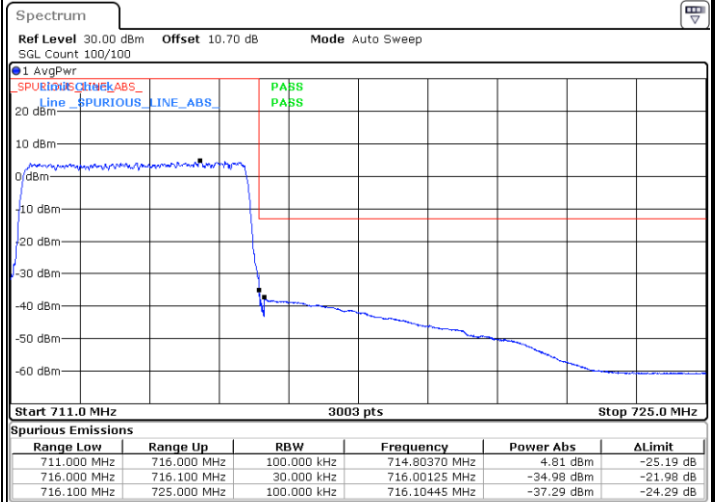
Date: 2.SEP.2022 12:01:40

Lowest Band Edge / Full RB



Date: 2.SEP.2022 11:56:57

Highest Band Edge / Full RB

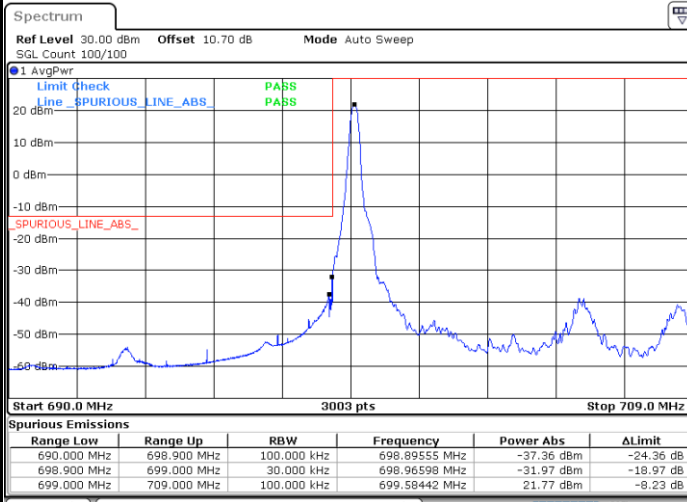


Date: 2.SEP.2022 12:00:42



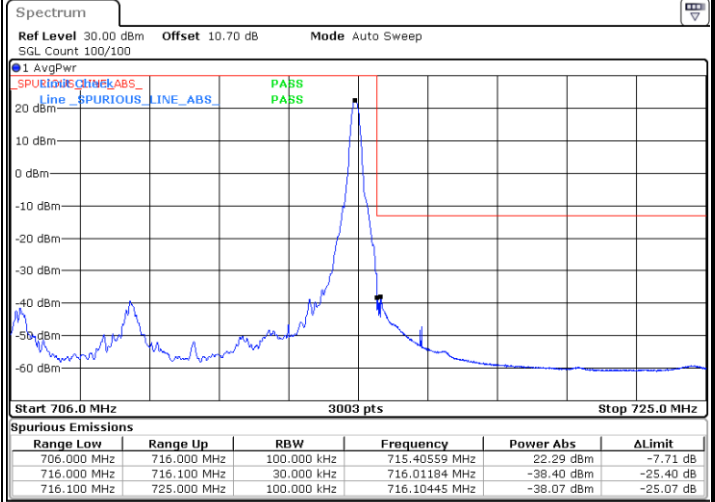
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



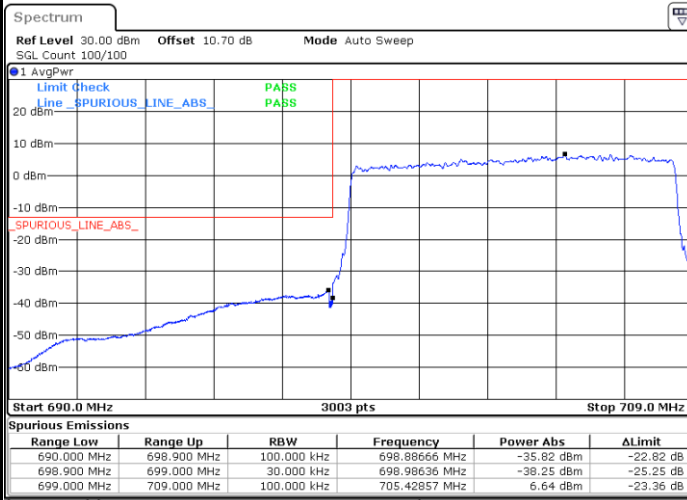
Date: 2.SEP.2022 11:23:11

Highest Band Edge / 1 RB



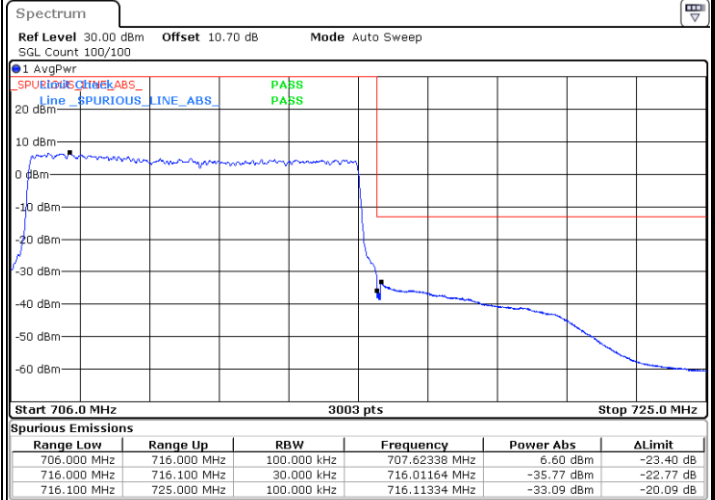
Date: 2.SEP.2022 11:30:51

Lowest Band Edge / Full RB



Date: 2.SEP.2022 11:20:27

Highest Band Edge / Full RB

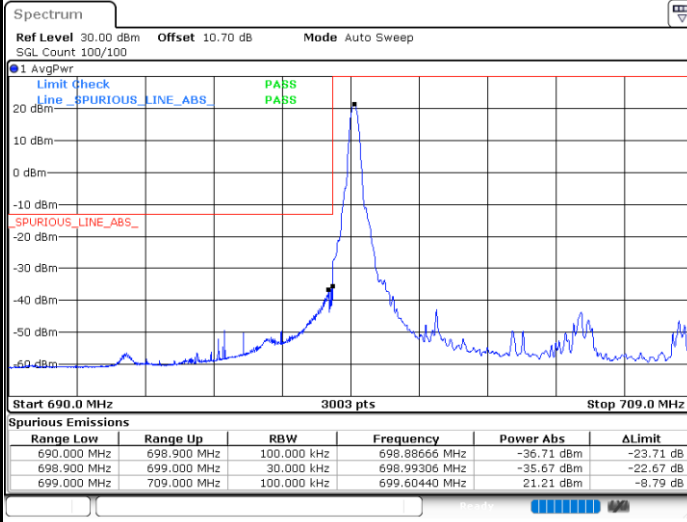


Date: 2.SEP.2022 11:28:06



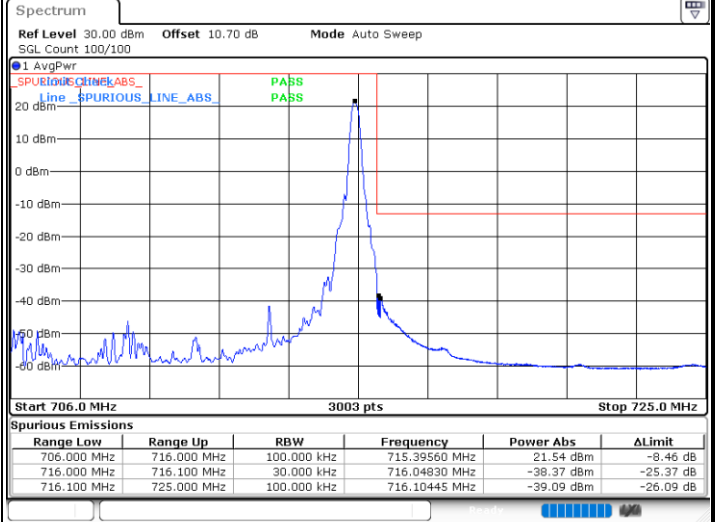
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



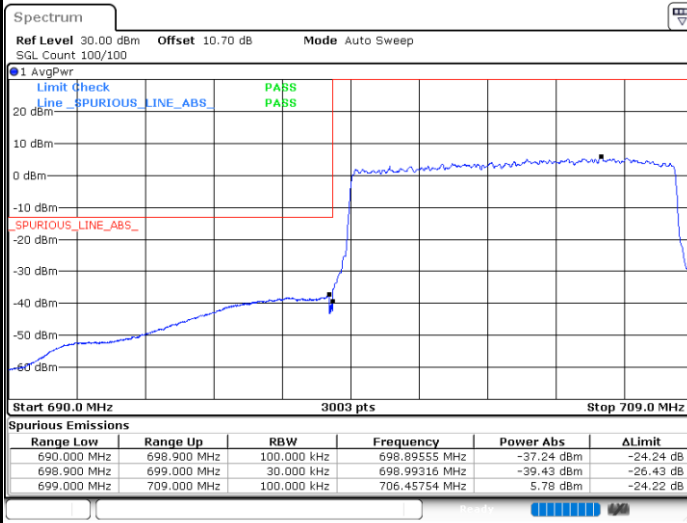
Date: 2.SEP.2022 11:22:17

Highest Band Edge / 1 RB



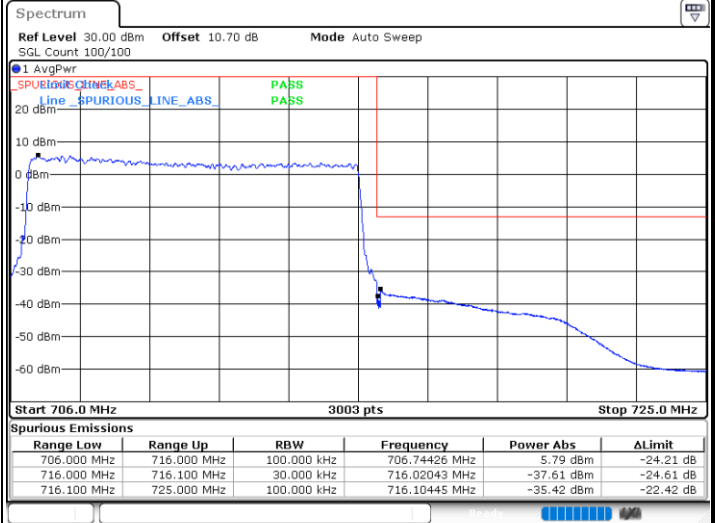
Date: 2.SEP.2022 11:29:56

Lowest Band Edge / Full RB



Date: 2.SEP.2022 11:21:22

Highest Band Edge / Full RB

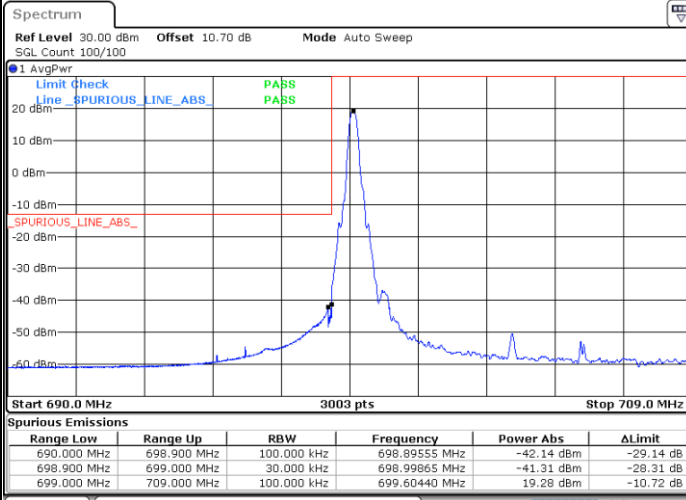


Date: 2.SEP.2022 11:29:01



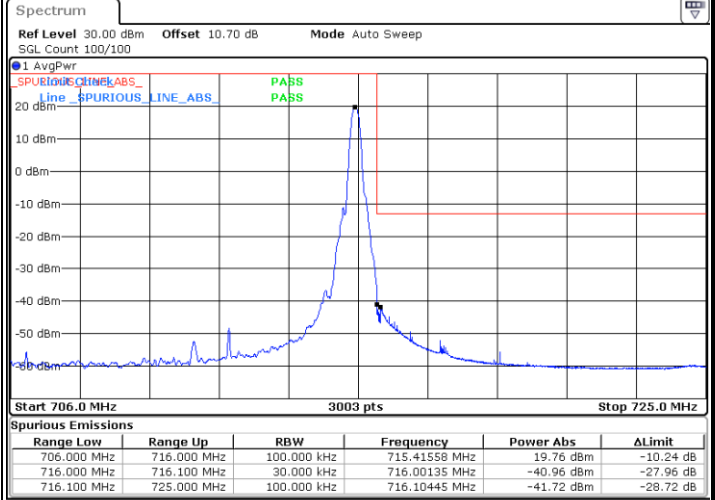
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



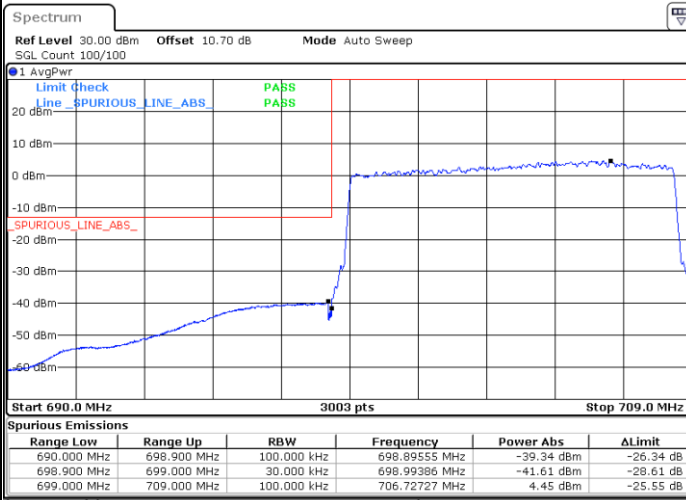
Date: 2.SEP.2022 11:33:54

Highest Band Edge / 1 RB



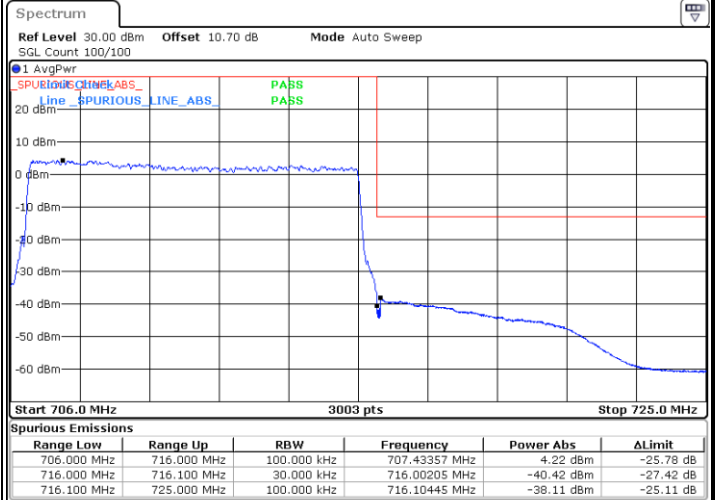
Date: 2.SEP.2022 11:36:30

Lowest Band Edge / Full RB



Date: 2.SEP.2022 11:32:59

Highest Band Edge / Full RB

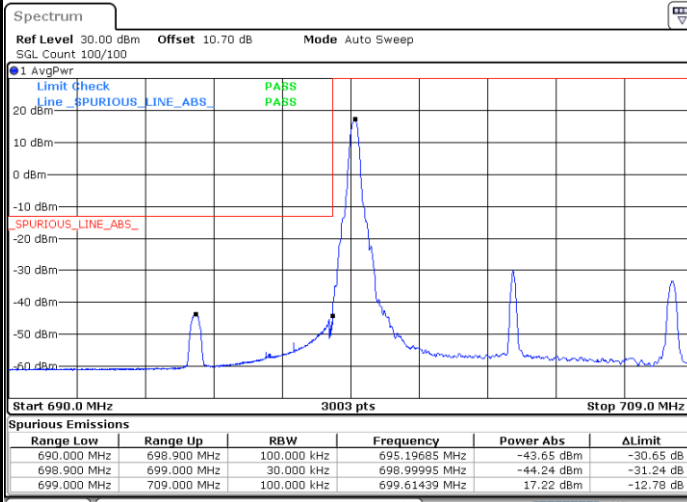


Date: 2.SEP.2022 11:35:36



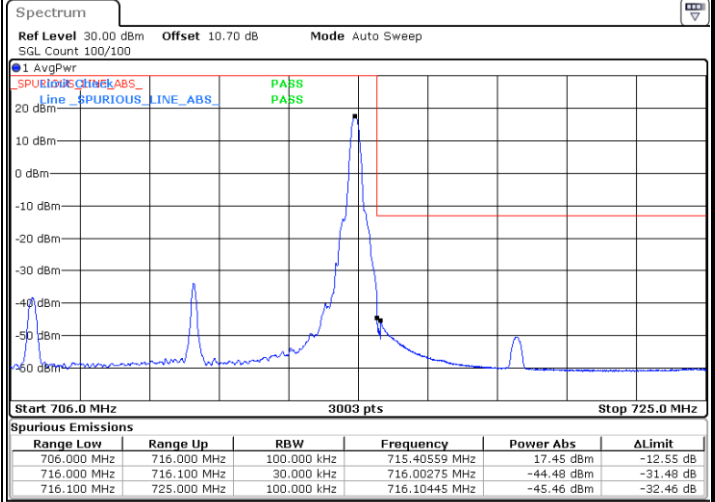
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



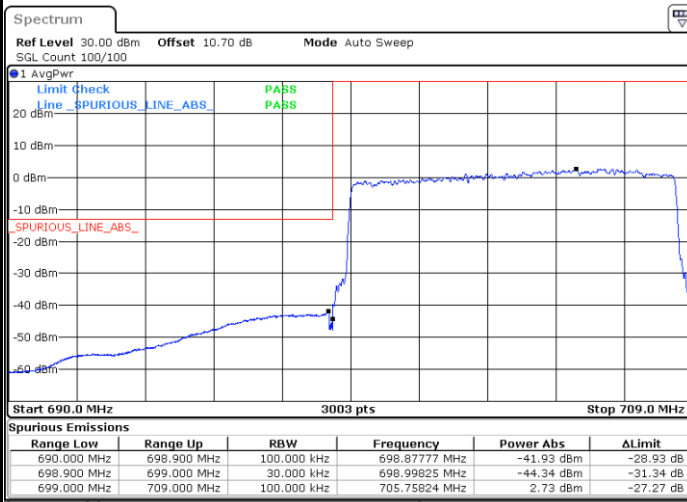
Date: 2.SEP.2022 12:07:01

Highest Band Edge / 1 RB



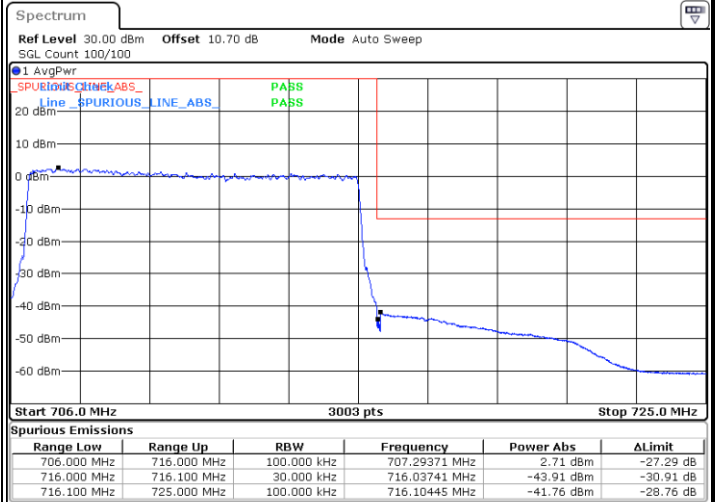
Date: 2.SEP.2022 12:36:42

Lowest Band Edge / Full RB



Date: 2.SEP.2022 12:06:04

Highest Band Edge / Full RB



Date: 2.SEP.2022 12:35:44



Conducted Spurious Emission

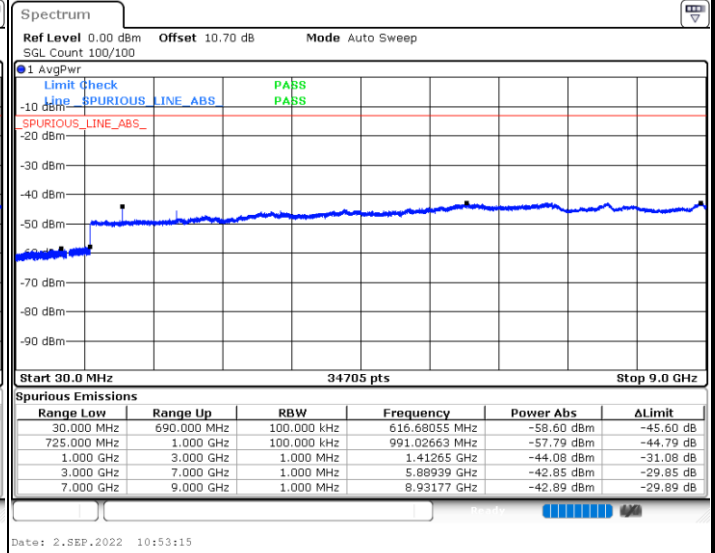
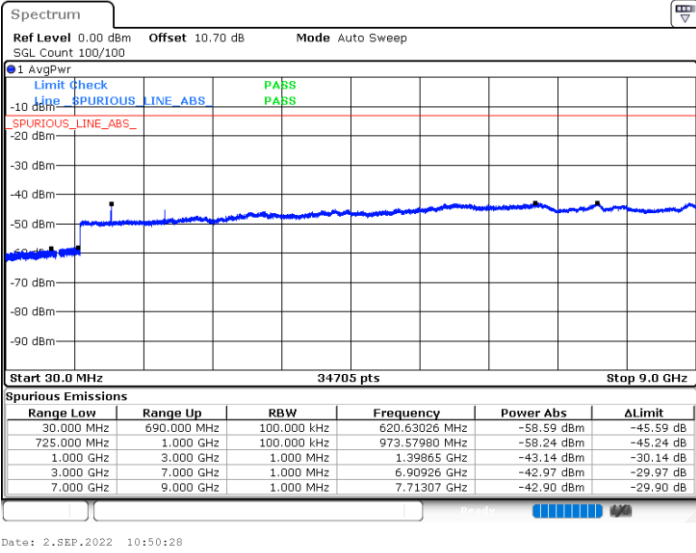




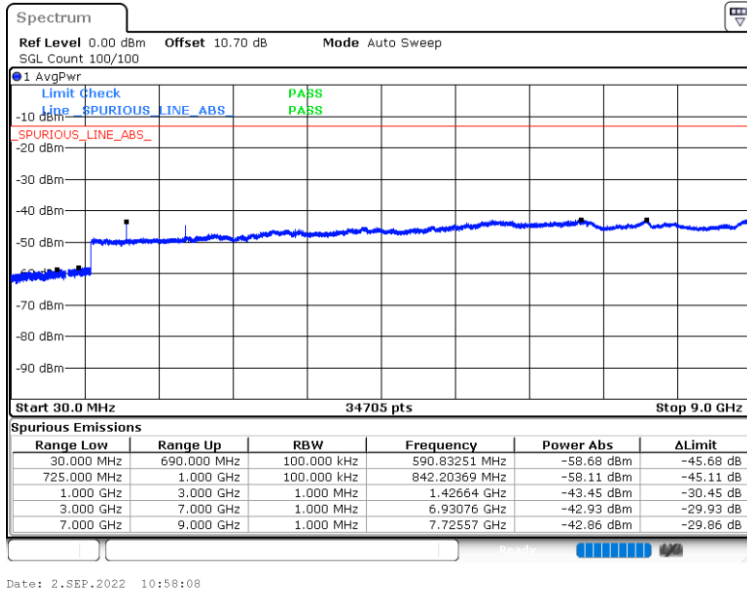
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

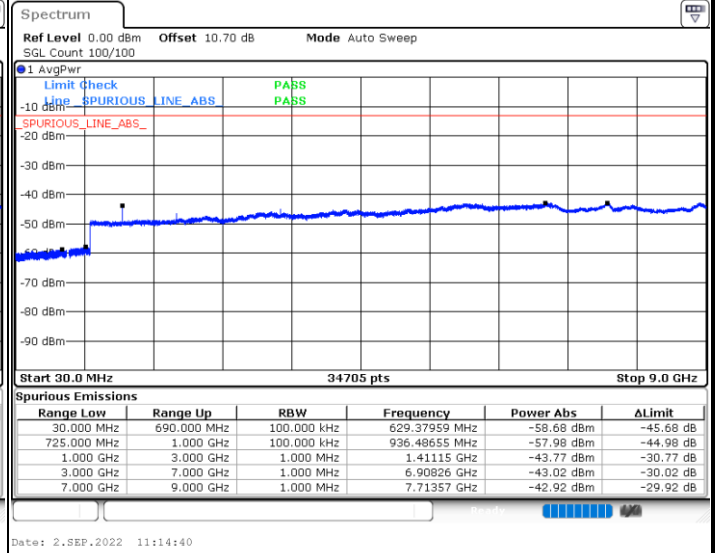
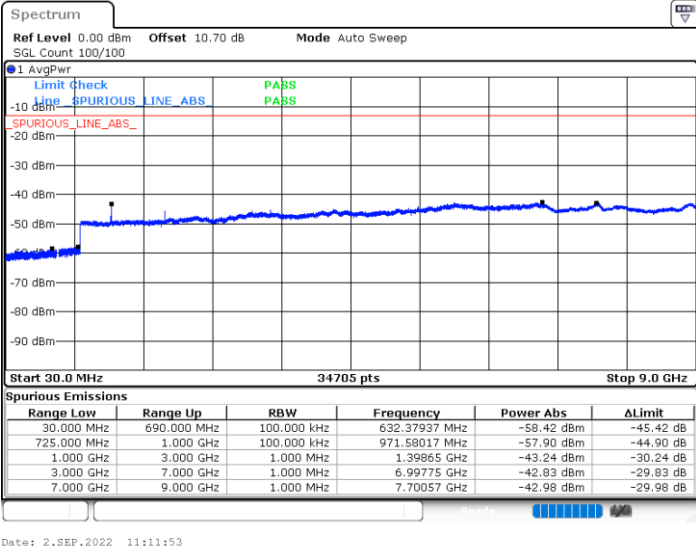




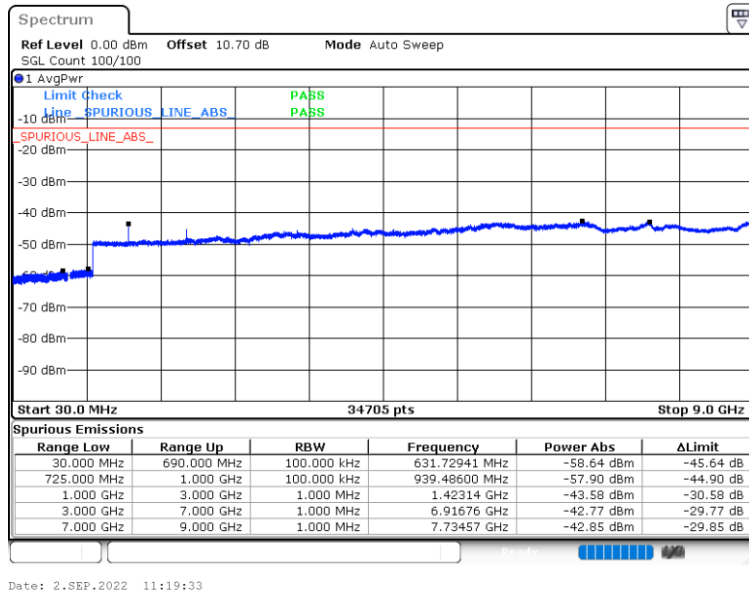
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

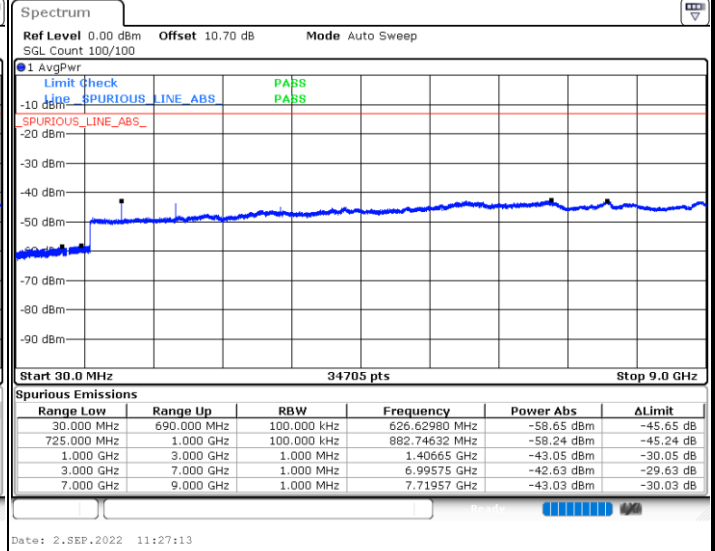
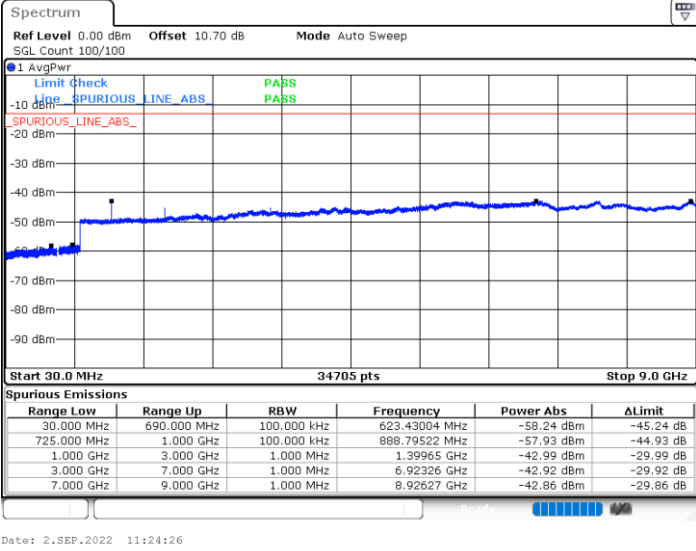




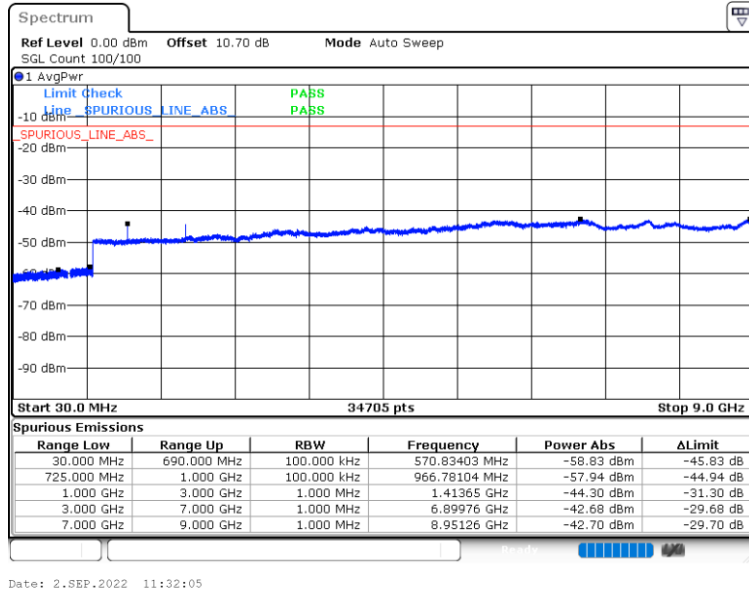
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0232	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0191	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.0198	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0208	
20	Maximum Voltage	0.0119	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

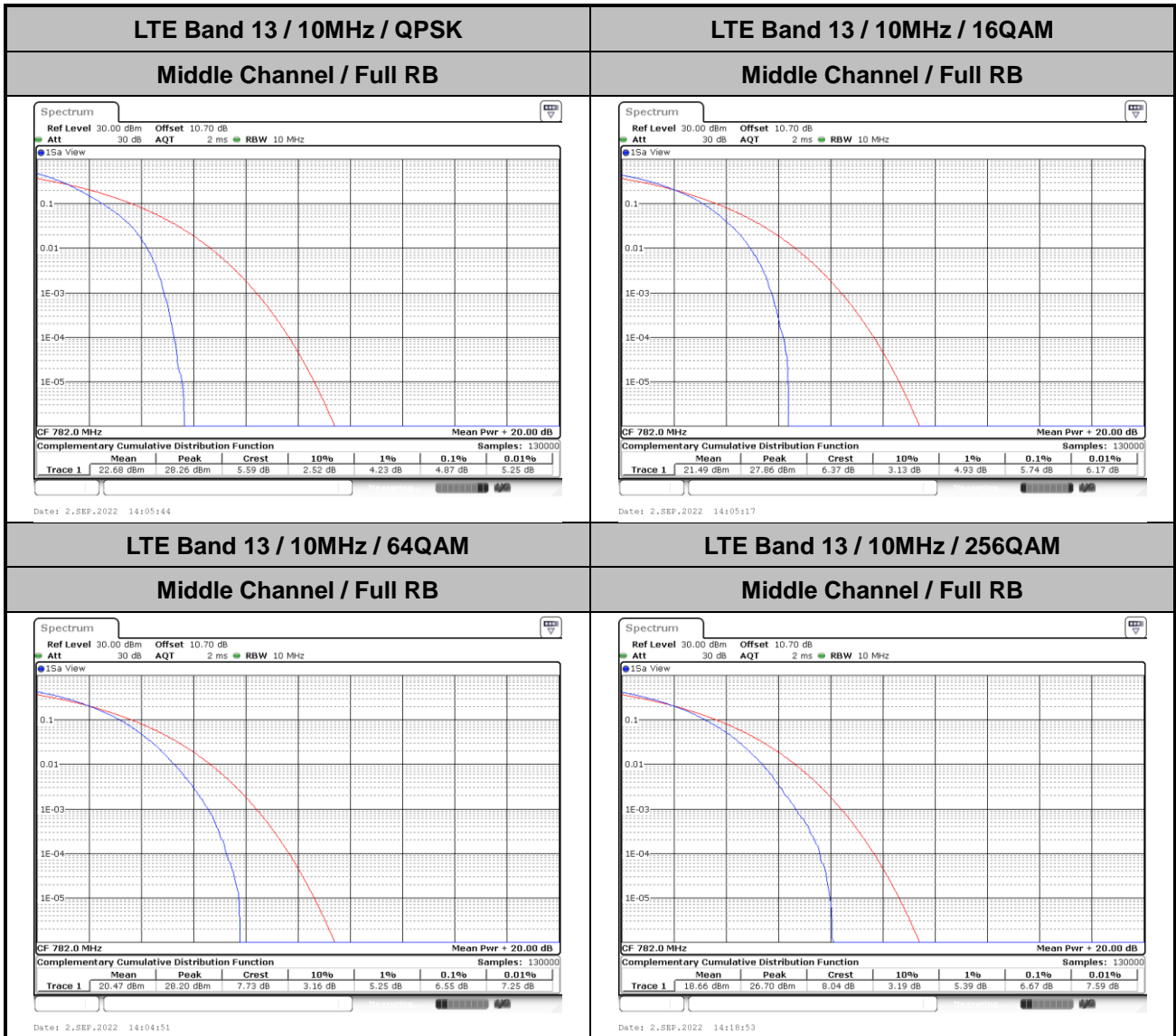
1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.74	6.55	6.67	PASS





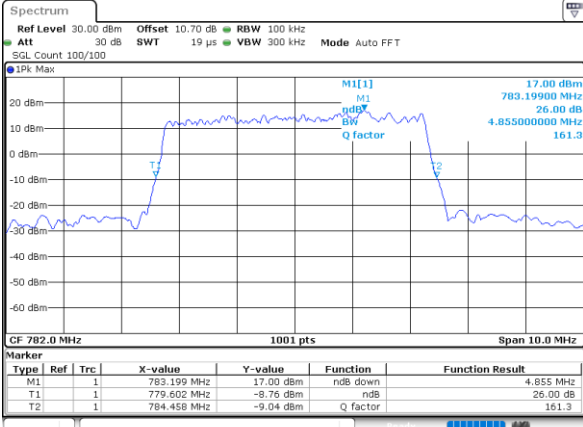
26dB Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.86	4.86	9.73	9.77	-	-	-	-
Mode	LTE Band 13 : 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	-	-	-	-	4.82	4.86	9.71	9.75	-	-	-	-



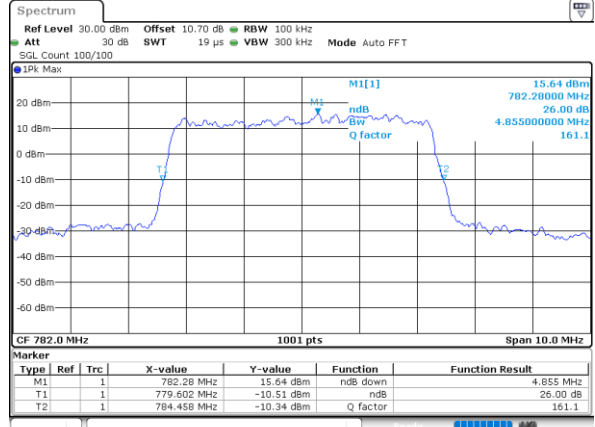
LTE Band 13

Middle Channel / 5MHz / QPSK



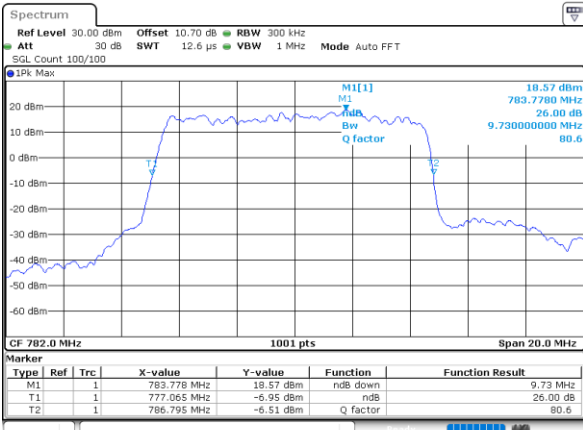
Date: 2,SEP,2022 13:42:13

Middle Channel / 5MHz / 16QAM



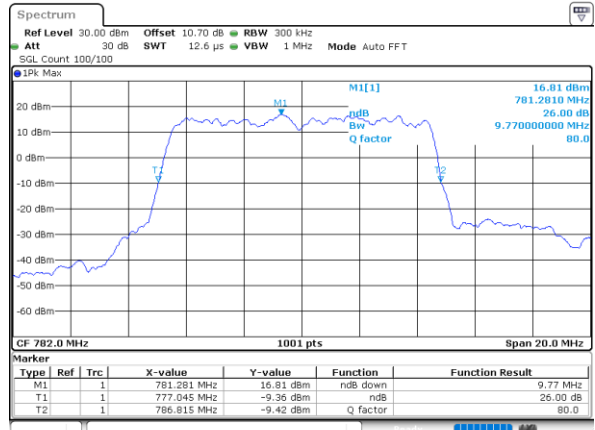
Date: 2,SEP,2022 13:42:36

Middle Channel / 10MHz / QPSK



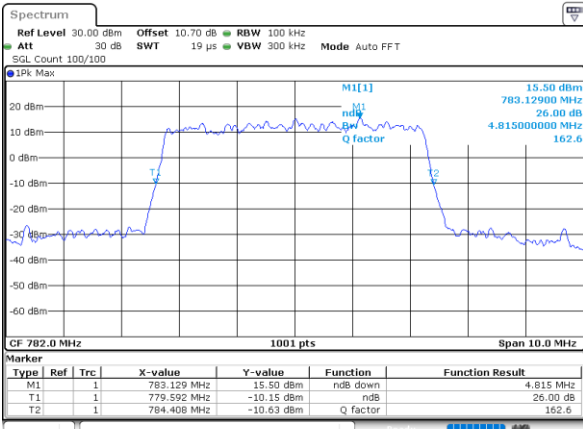
Date: 2,SEP,2022 13:54:18

Middle Channel / 10MHz / 16QAM



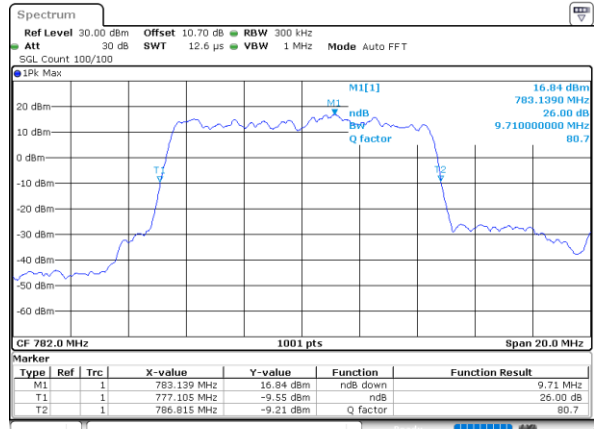
Date: 2,SEP,2022 13:53:55

Middle Channel / 5MHz / 64QAM



Date: 2,SEP,2022 13:50:29

Middle Channel / 10MHz / 64QAM



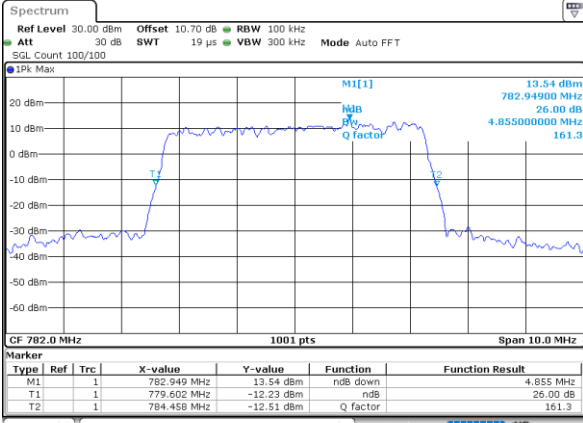
Date: 2,SEP,2022 14:01:44



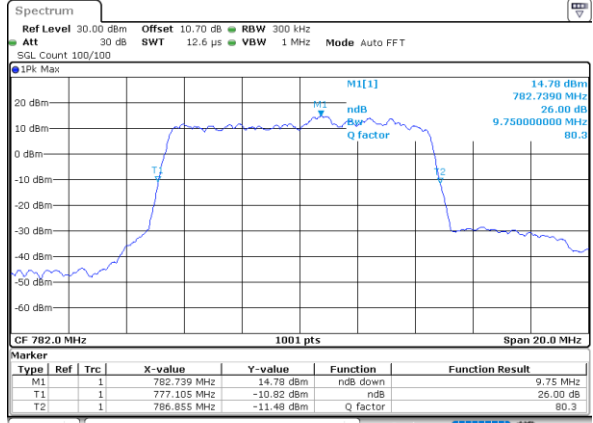
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 2.SEP.2022 14:08:25



Date: 2.SEP.2022 14:15:45



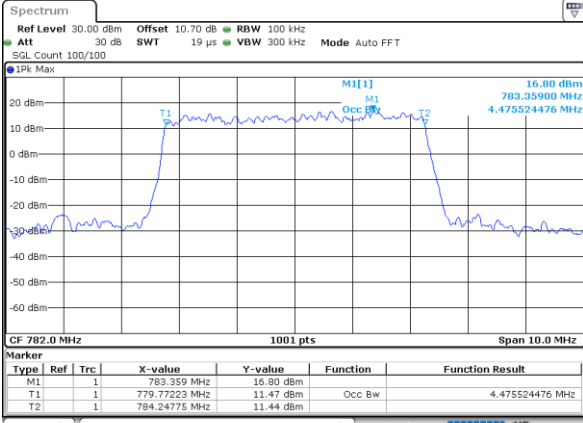
Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.48	4.48	8.95	8.97	-	-	-	-
Mode	LTE Band 13 : 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	-	-	-	-	4.48	4.48	8.97	8.97	-	-	-	-



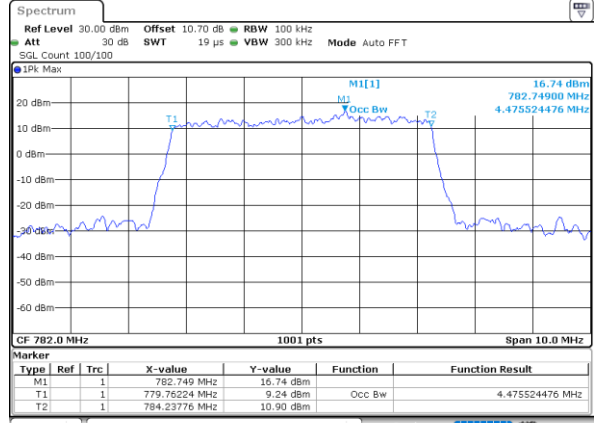
LTE Band 13

Middle Channel / 5MHz / QPSK



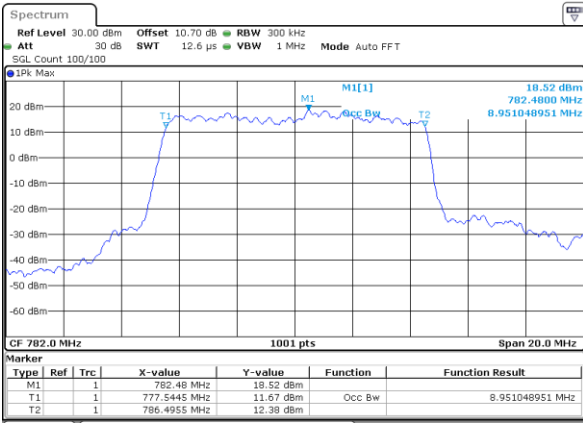
Date: 2,SEP,2022 13:43:23

Middle Channel / 5MHz / 16QAM



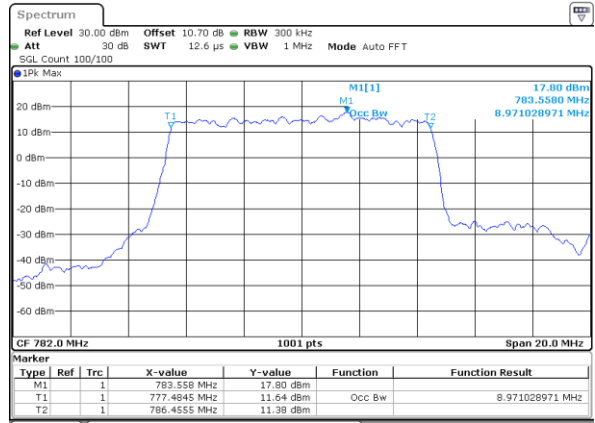
Date: 2,SEP,2022 13:43:00

Middle Channel / 10MHz / QPSK



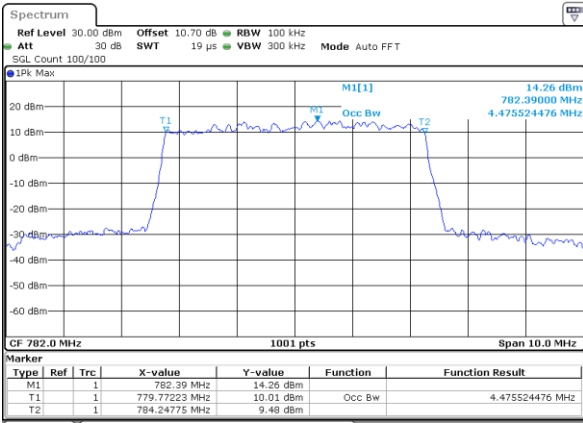
Date: 2,SEP,2022 13:53:07

Middle Channel / 10MHz / 16QAM



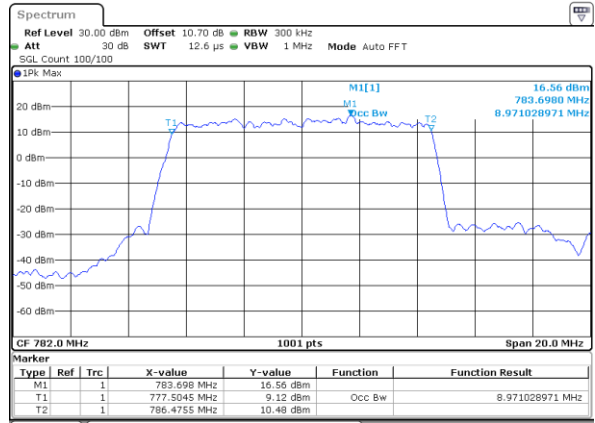
Date: 2,SEP,2022 13:53:31

Middle Channel / 5MHz / 64QAM



Date: 2,SEP,2022 13:50:53

Middle Channel / 10MHz / 64QAM



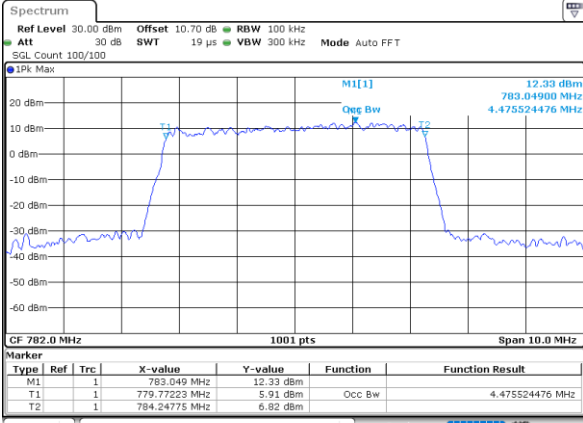
Date: 2,SEP,2022 14:01:20



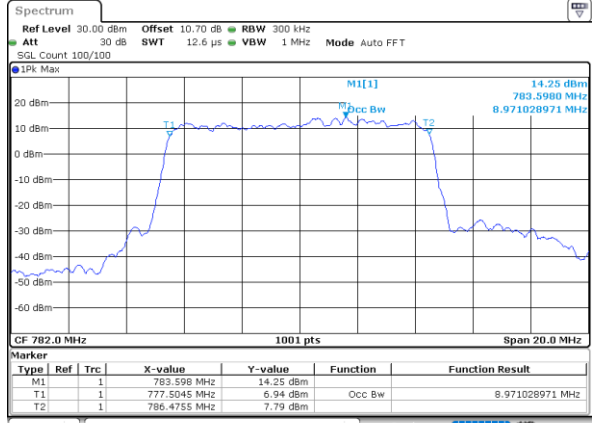
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 2.SEP.2022 14:08:49



Date: 2.SEP.2022 14:15:22

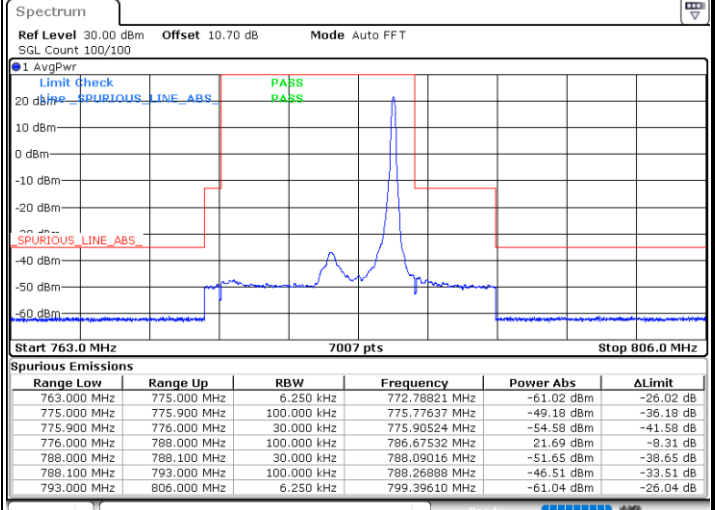
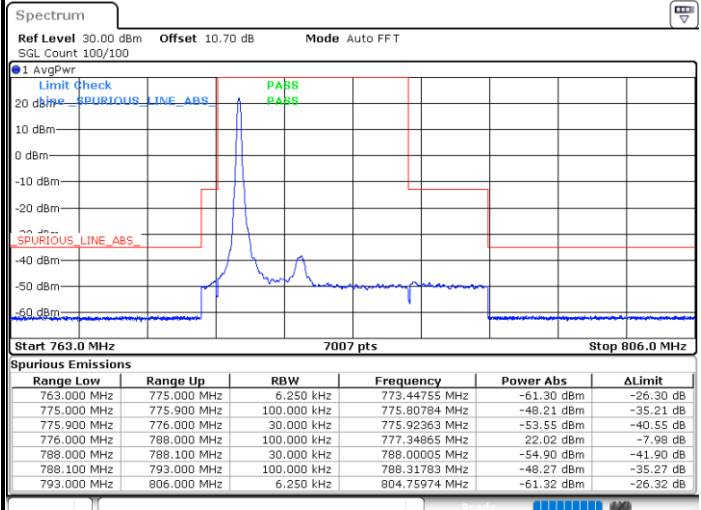


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

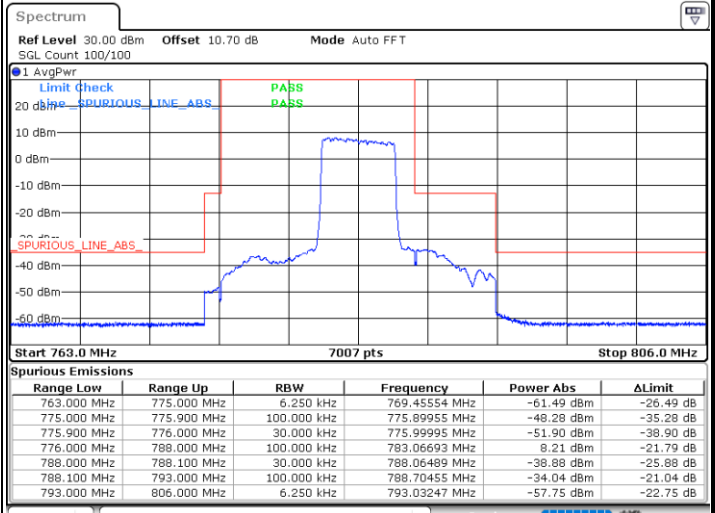
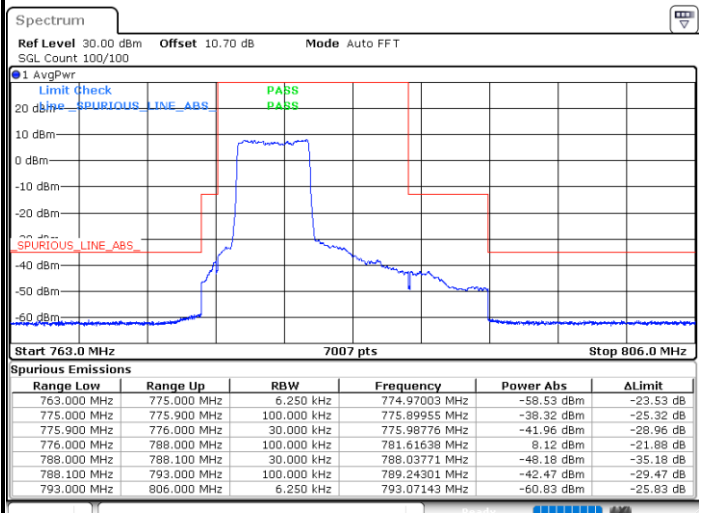


Date: 2.SEP.2022 13:39:21

Date: 2.SEP.2022 13:47:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



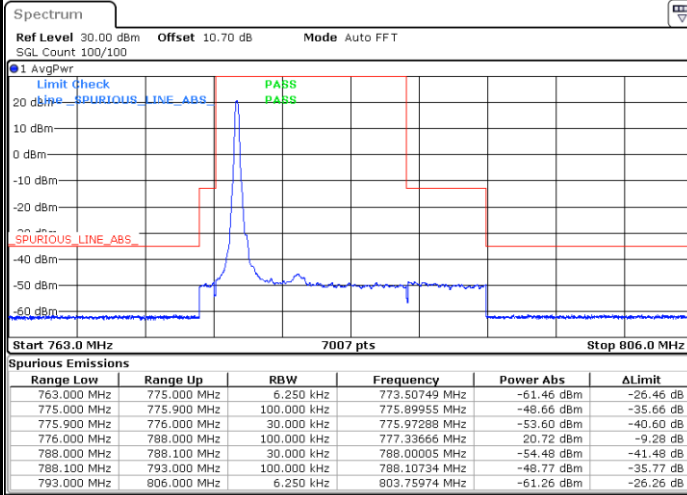
Date: 2.SEP.2022 13:36:36

Date: 2.SEP.2022 13:44:16



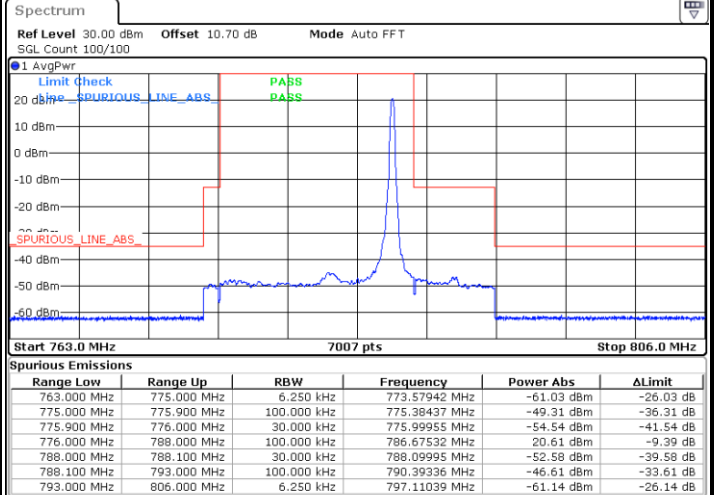
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



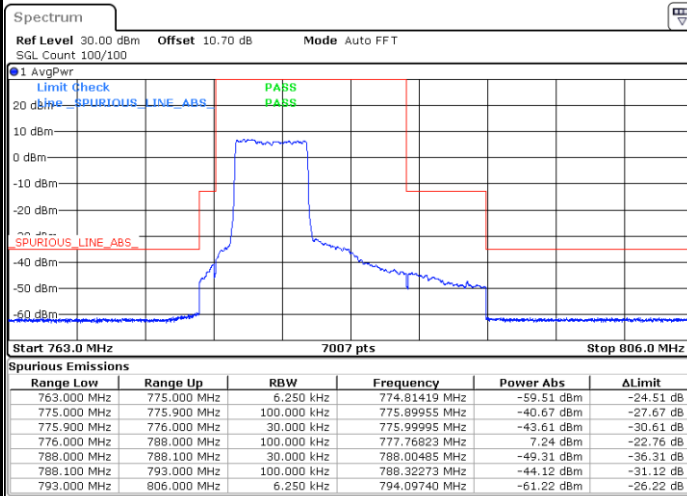
Date: 2.SEP.2022 13:38:26

Highest Band Edge / 1 RB



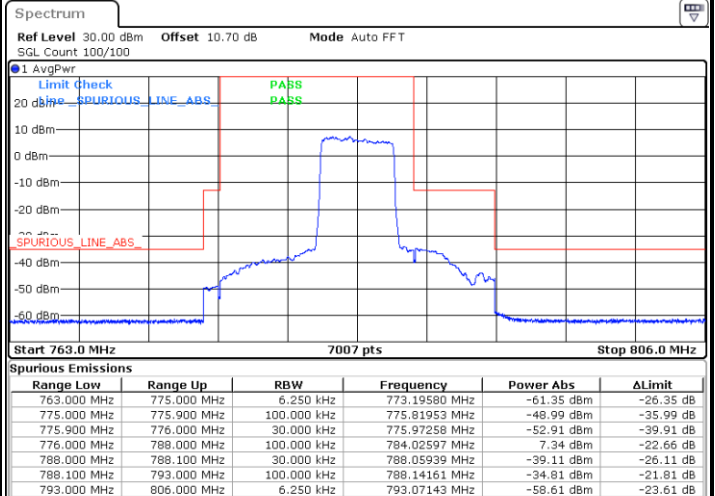
Date: 2.SEP.2022 13:46:06

Lowest Band Edge / Full RB



Date: 2.SEP.2022 13:37:31

Highest Band Edge / Full RB



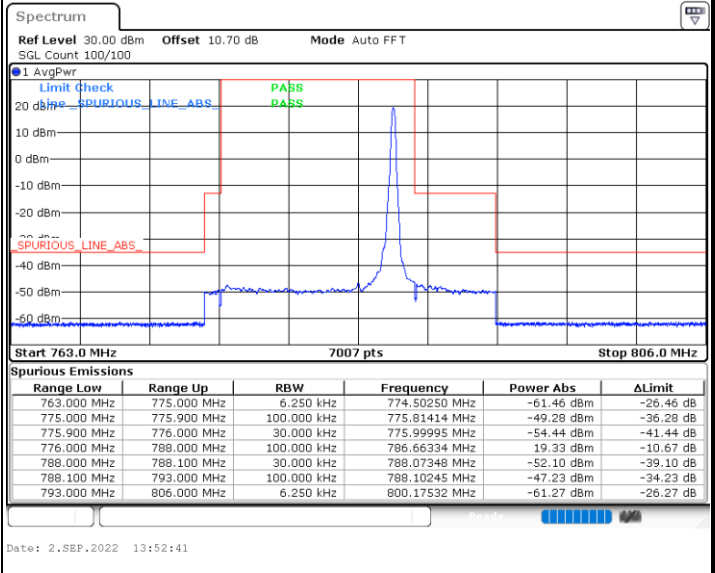
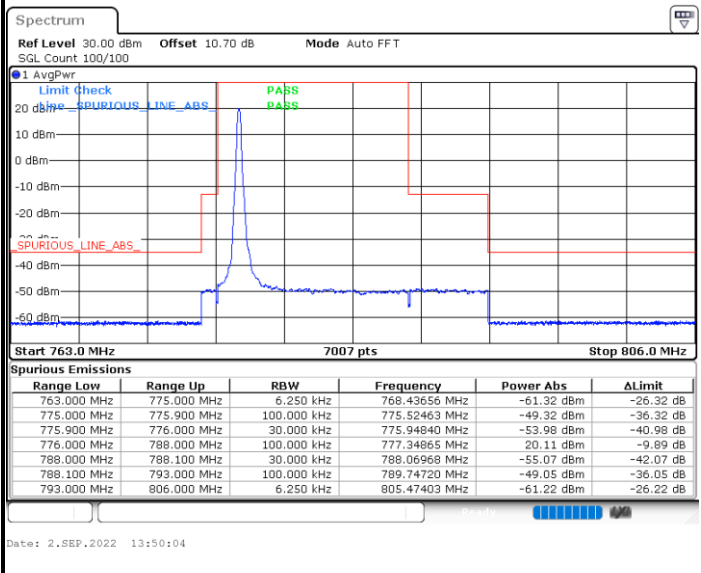
Date: 2.SEP.2022 13:45:11



LTE Band 13 / 5MHz / 64QAM

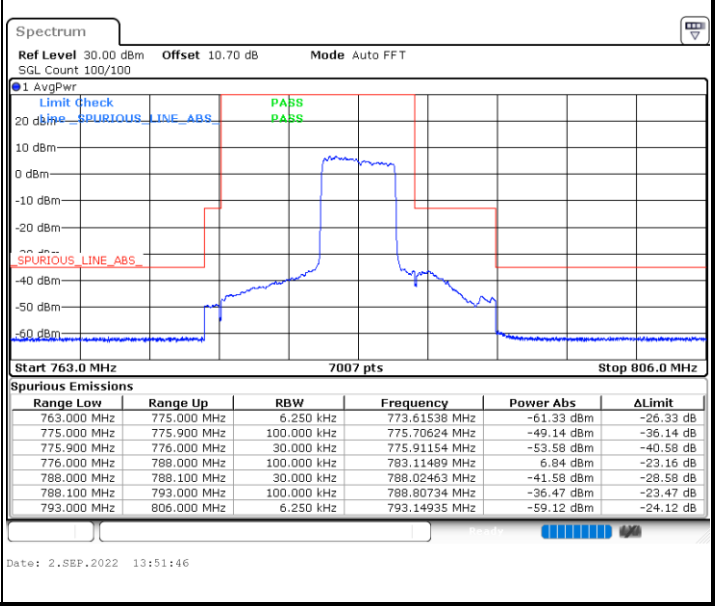
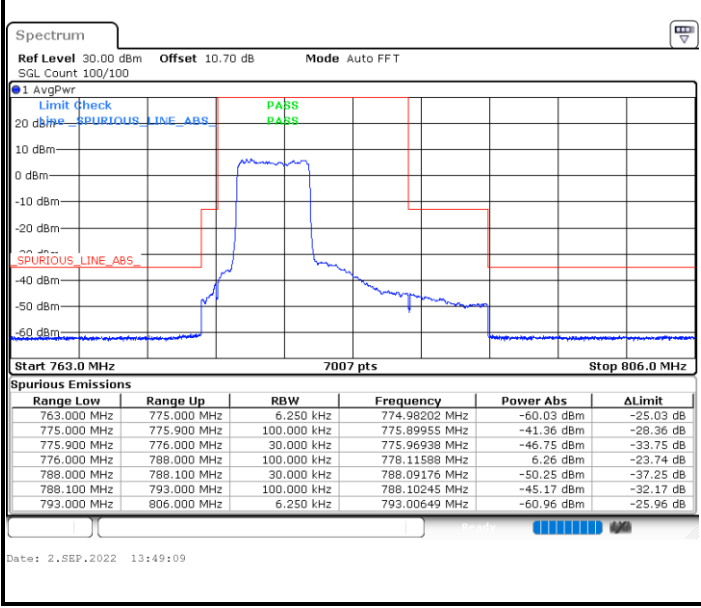
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

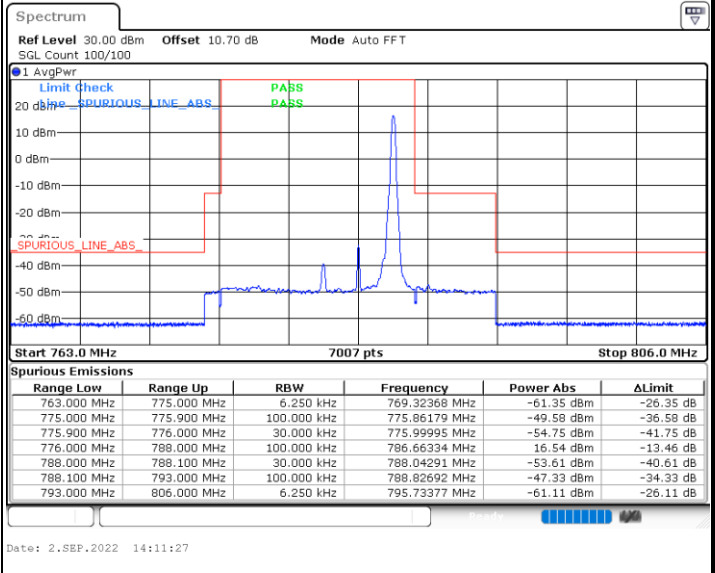
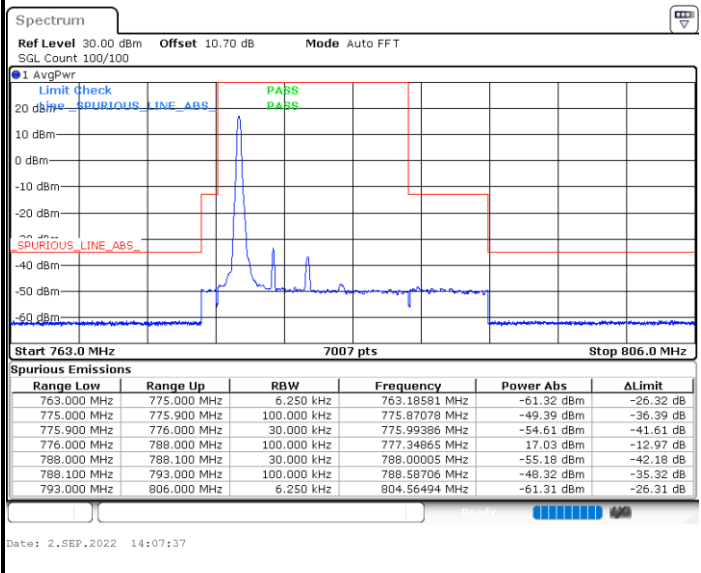




LTE Band 13 / 5MHz / 256QAM

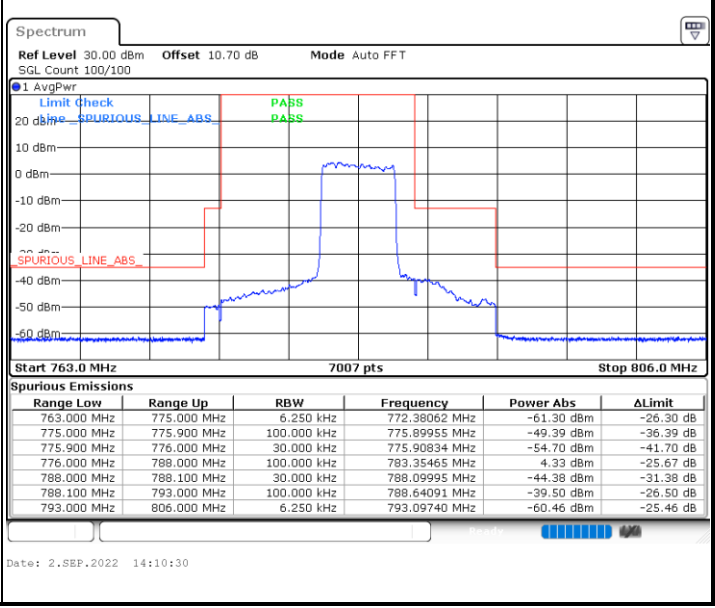
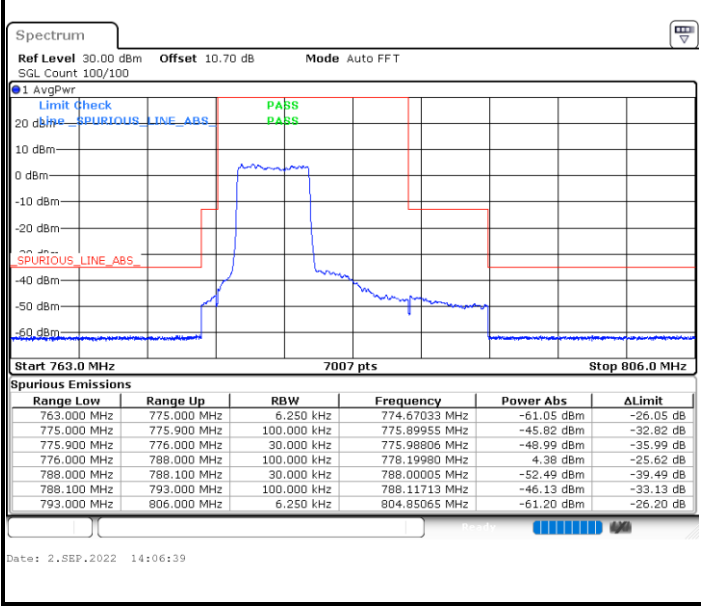
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

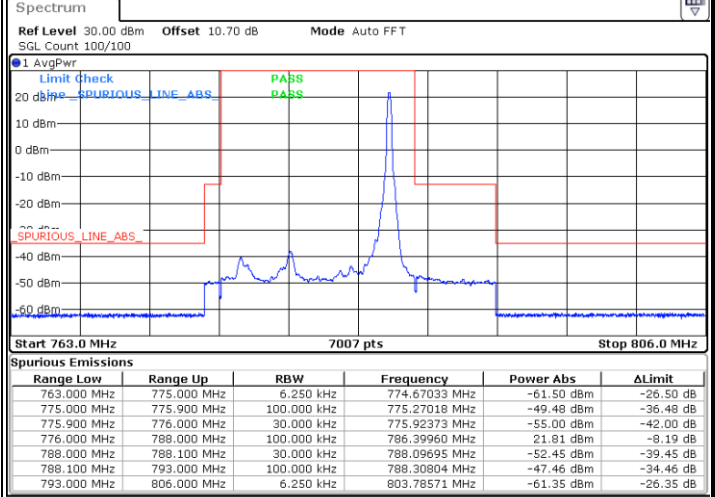
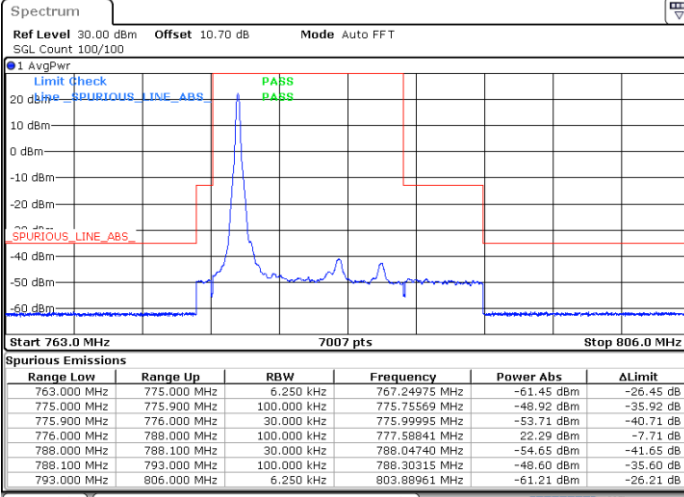




LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

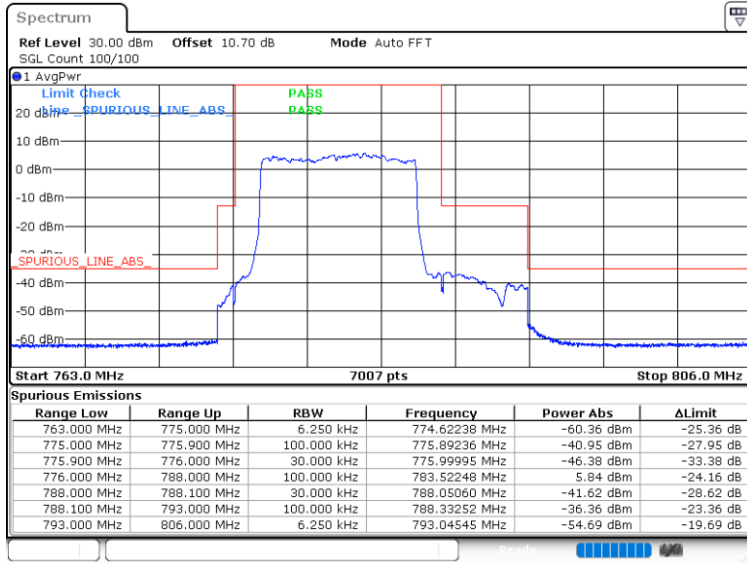
Highest Band Edge / 1 RB



Date: 2.SEP.2022 13:57:54

Date: 2.SEP.2022 13:58:48

Band Edge / Full RB



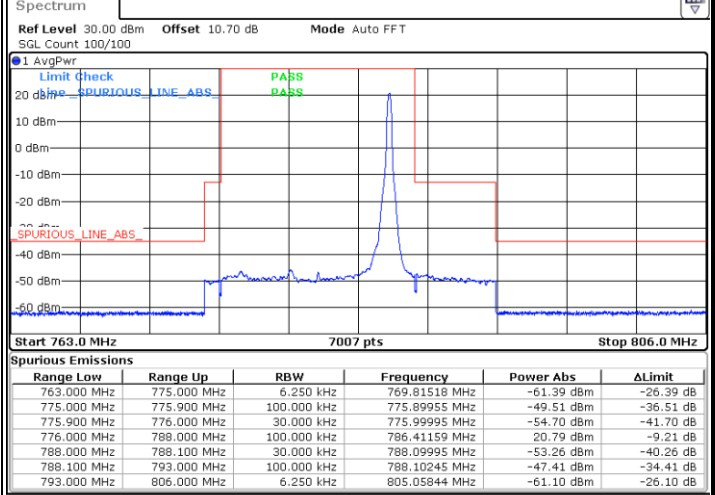
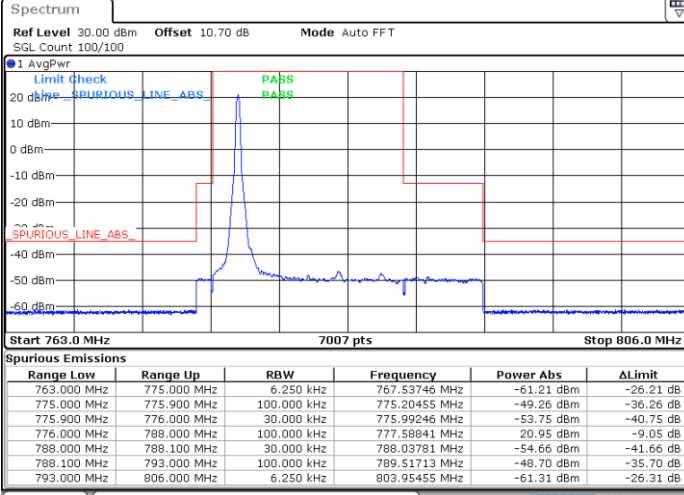
Date: 2.SEP.2022 13:55:11



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

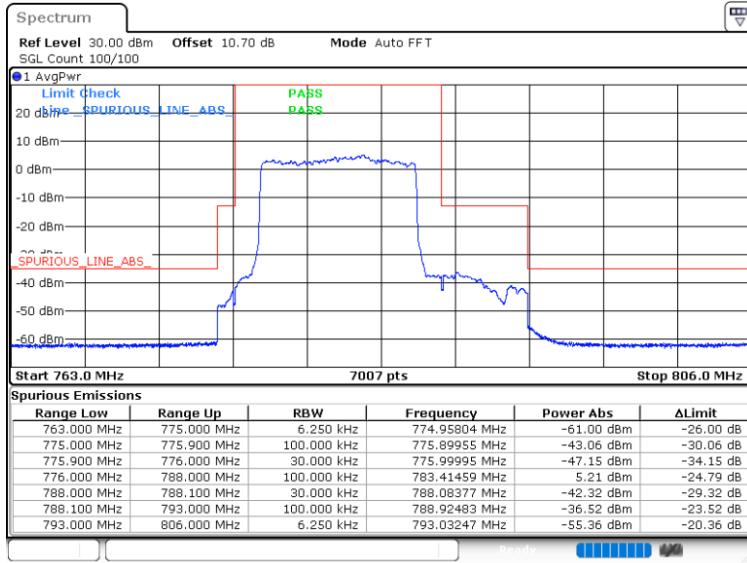
Highest Band Edge / 1 RB



Date: 2.SEP.2022 13:56:59

Date: 2.SEP.2022 13:59:42

Band Edge / Full RB

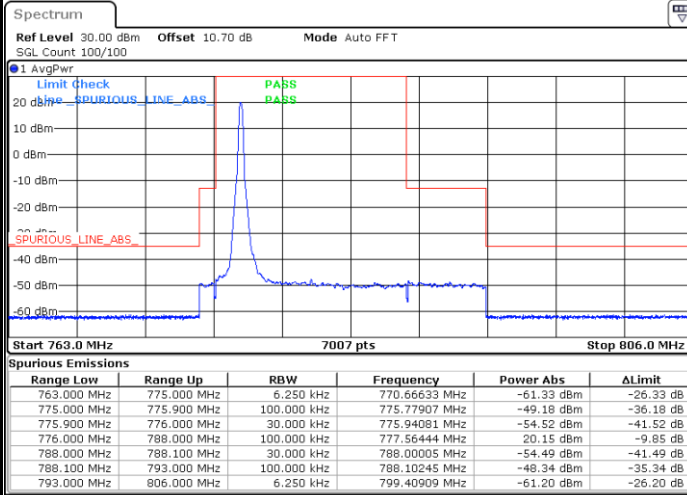


Date: 2.SEP.2022 13:56:05



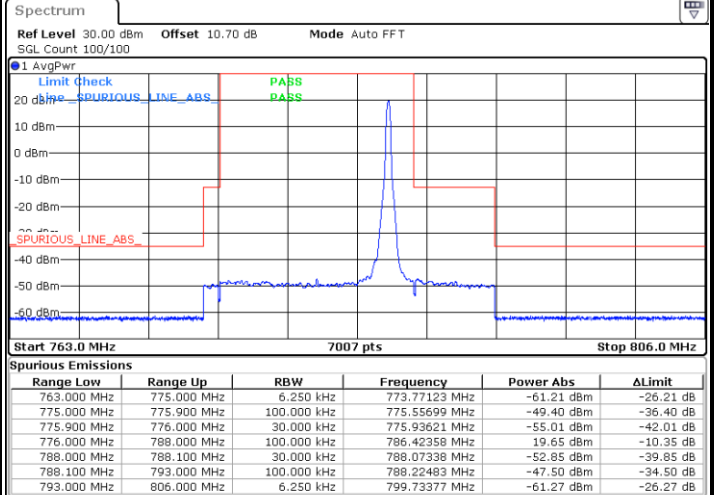
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



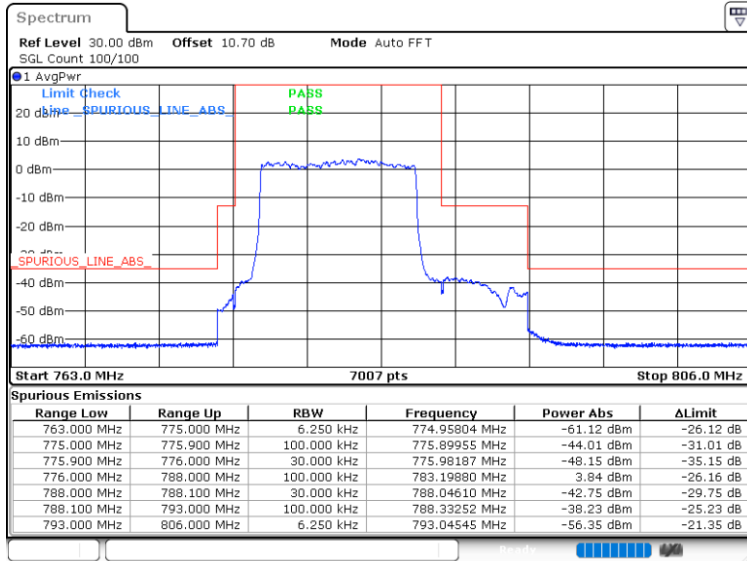
Date: 2.SEP.2022 14:03:31

Highest Band Edge / 1 RB



Date: 2.SEP.2022 14:04:25

Band Edge / Full RB

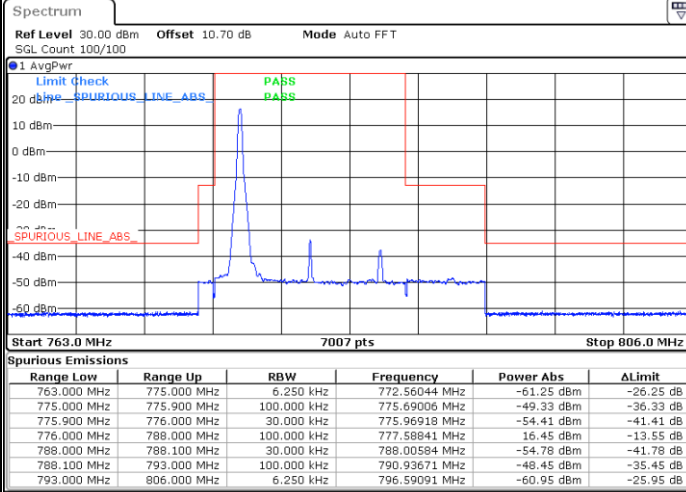


Date: 2.SEP.2022 14:02:36



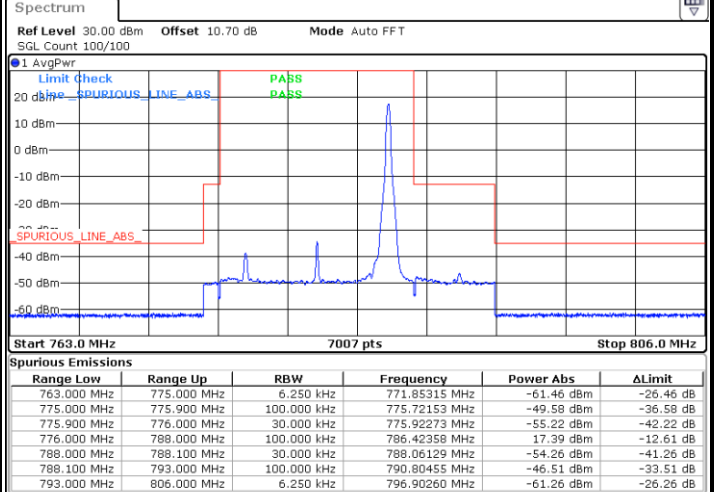
LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



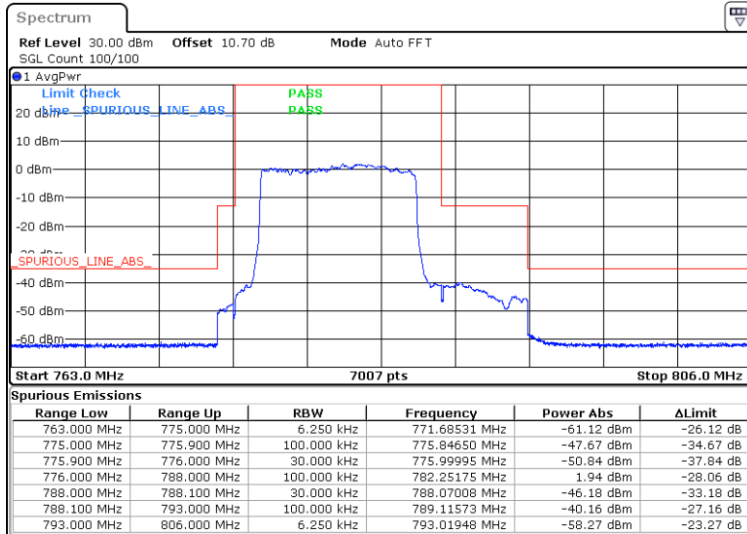
Date: 2.SEP.2022 14:17:32

Highest Band Edge / 1 RB



Date: 2.SEP.2022 14:18:26

Band Edge / Full RB

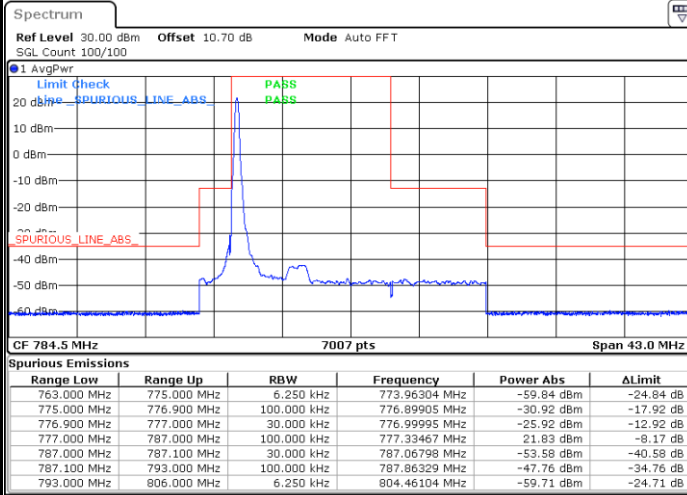


Date: 2.SEP.2022 14:16:37



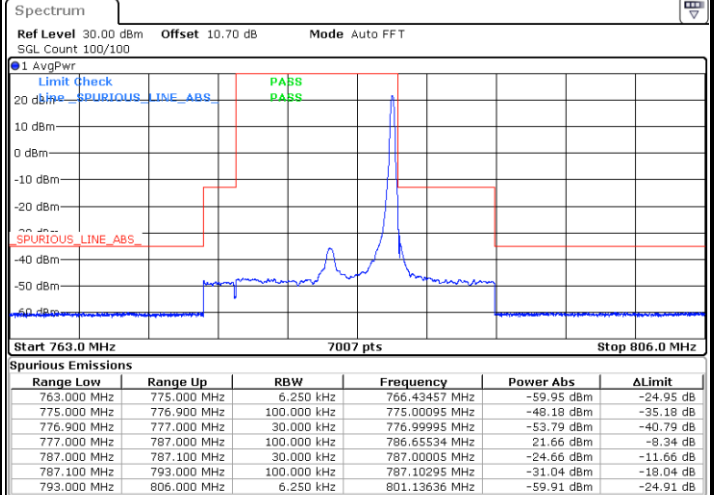
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



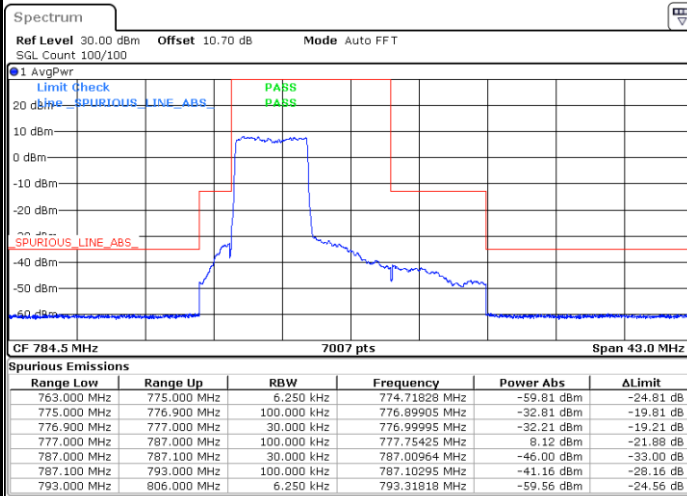
Date: 4.OCT.2022 16:20:18

Highest Band Edge / 1 RB



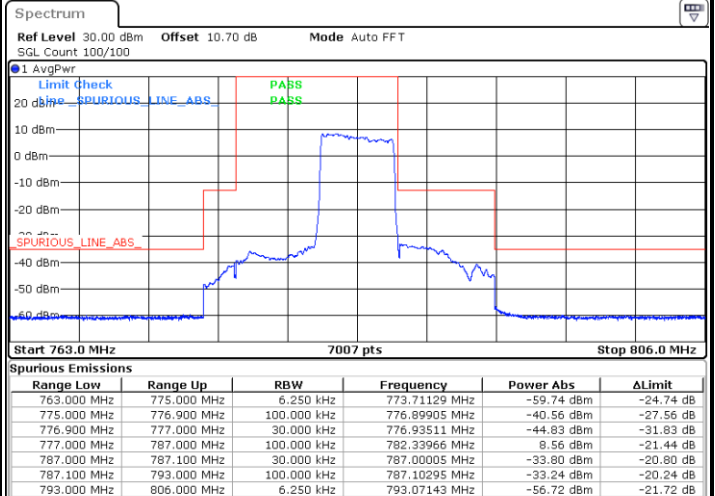
Date: 4.OCT.2022 16:24:03

Lowest Band Edge / Full RB



Date: 4.OCT.2022 16:16:43

Highest Band Edge / Full RB



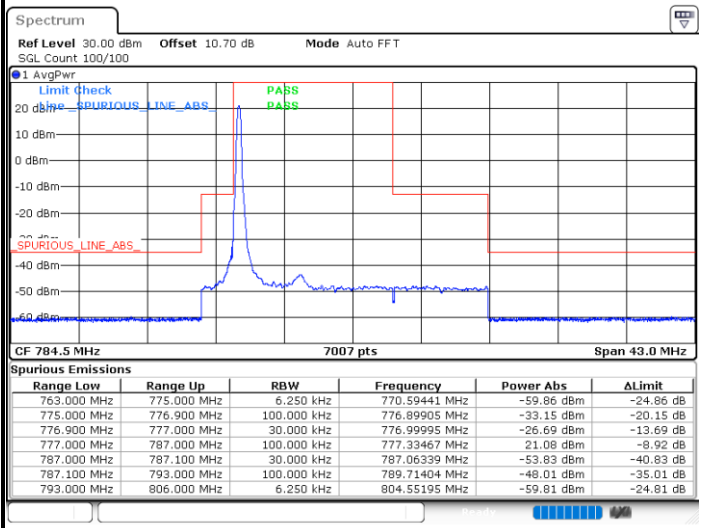
Date: 4.OCT.2022 16:27:40



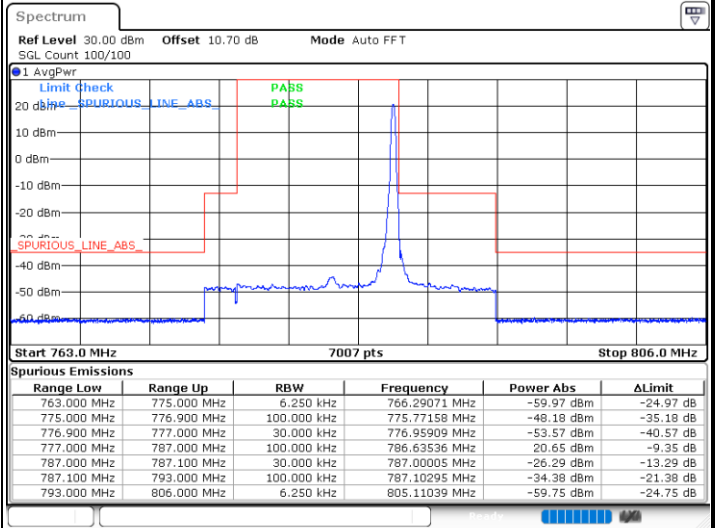
IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



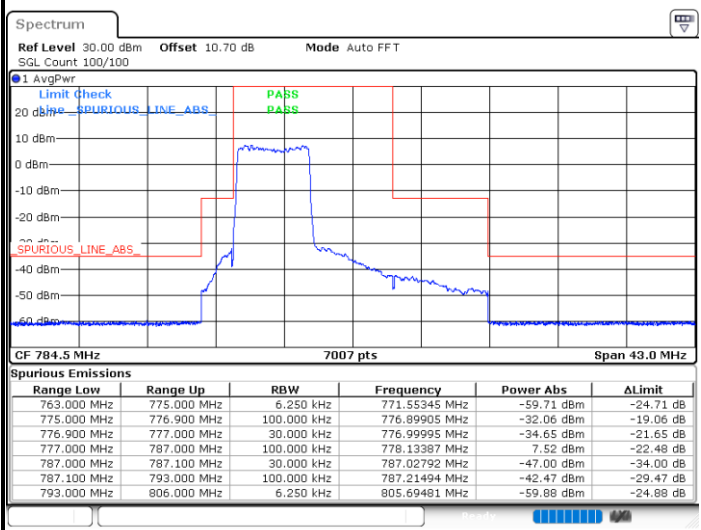
Date: 4.OCT.2022 16:21:11



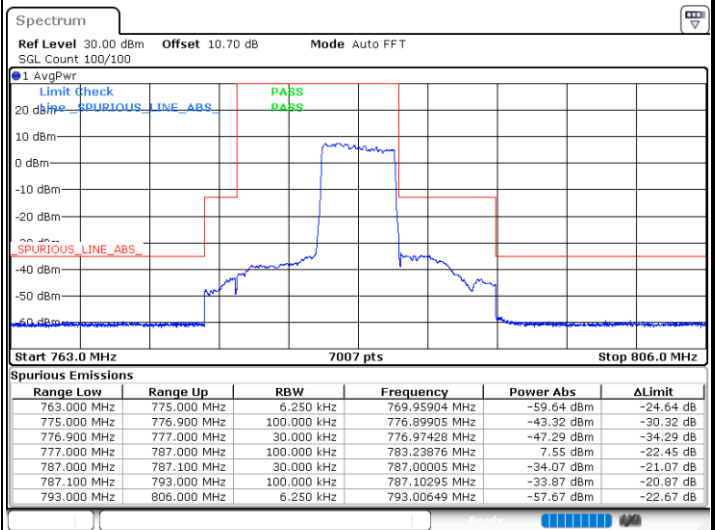
Date: 4.OCT.2022 16:24:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4.OCT.2022 16:17:36



Date: 4.OCT.2022 16:28:33