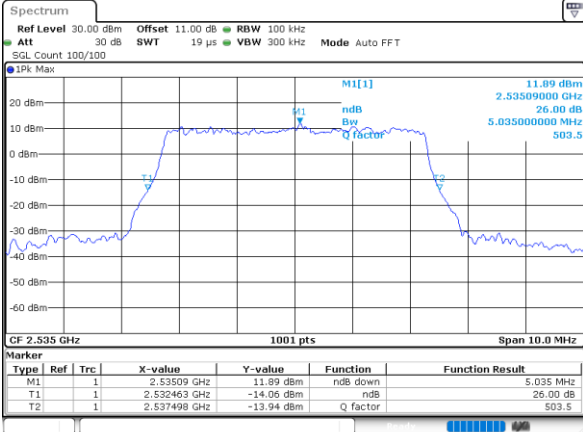




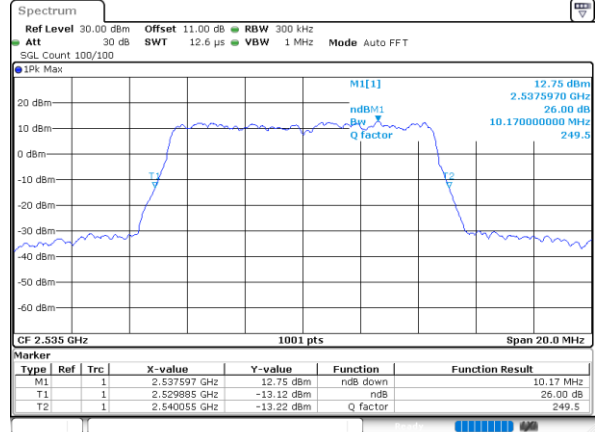
LTE Band 7

Middle Channel / 5MHz / 256QAM



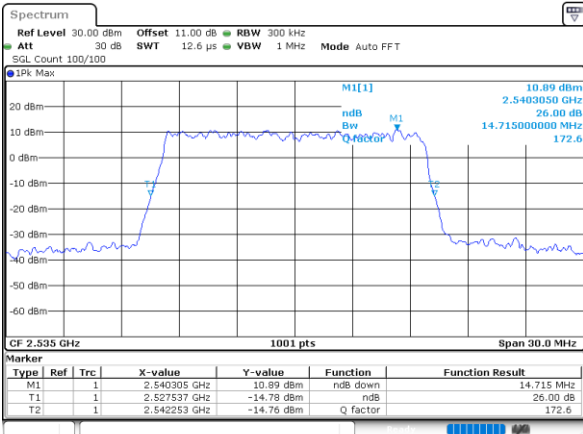
Date: 19_AUG.2022 09:24:34

Middle Channel / 10MHz / 256QAM



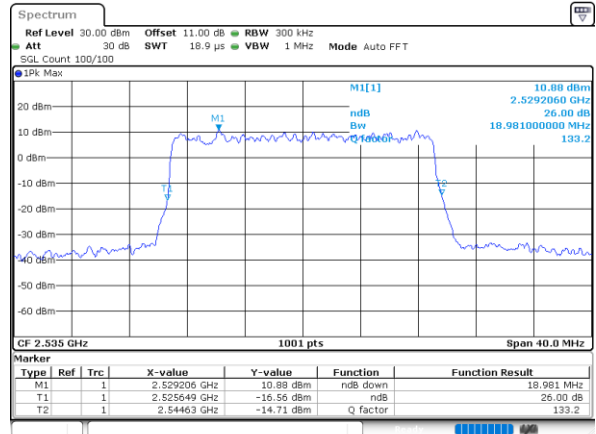
Date: 19_AUG.2022 09:29:44

Middle Channel / 15MHz / 256QAM



Date: 19_AUG.2022 09:34:54

Middle Channel / 20MHz / 256QAM



Date: 19_AUG.2022 09:40:01



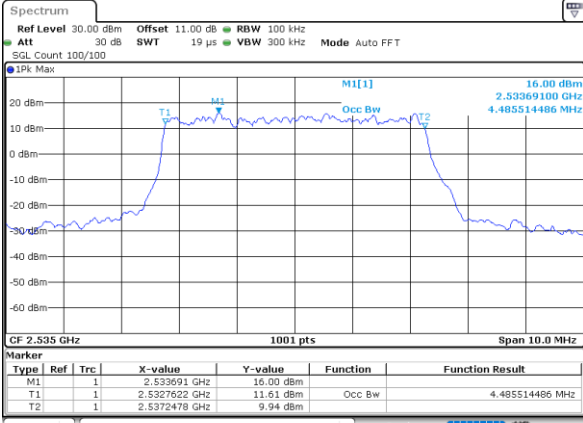
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.49	4.52	9.05	9.11	13.52	13.49	17.94	17.82
Mode	LTE Band 7 : 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	-	-	-	-	4.50	4.50	9.11	9.03	13.46	13.52	17.90	17.90



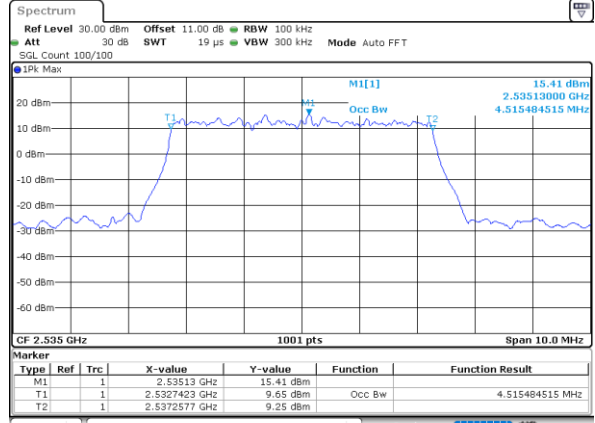
LTE Band 7

Middle Channel / 5MHz / QPSK



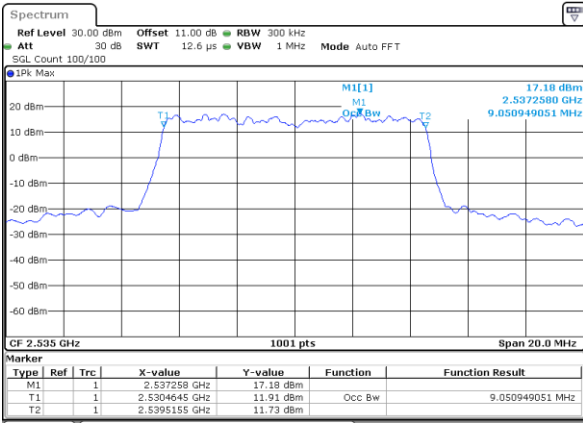
Date: 19_AUG.2022 04:04:08

Middle Channel / 5MHz / 16QAM



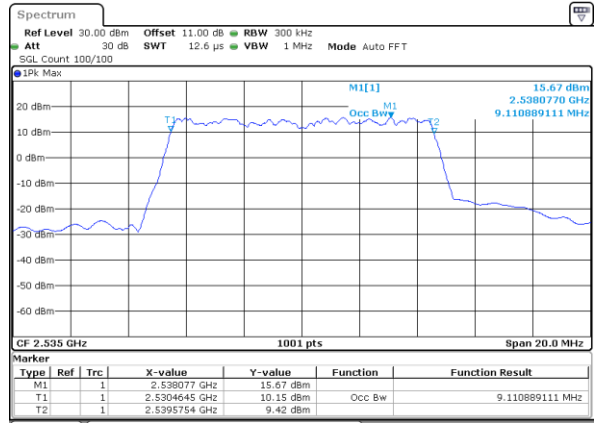
Date: 19_AUG.2022 04:04:37

Middle Channel / 10MHz / QPSK



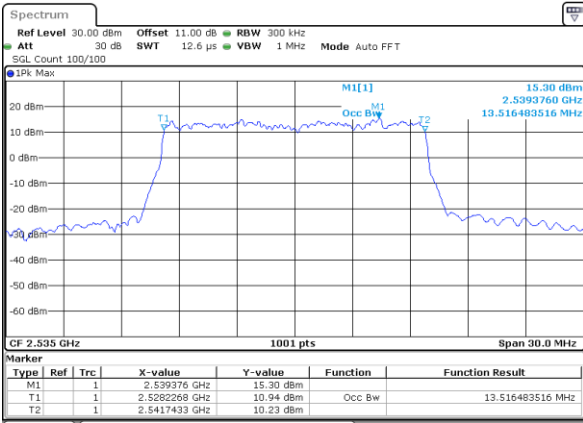
Date: 19_AUG.2022 04:23:02

Middle Channel / 10MHz / 16QAM



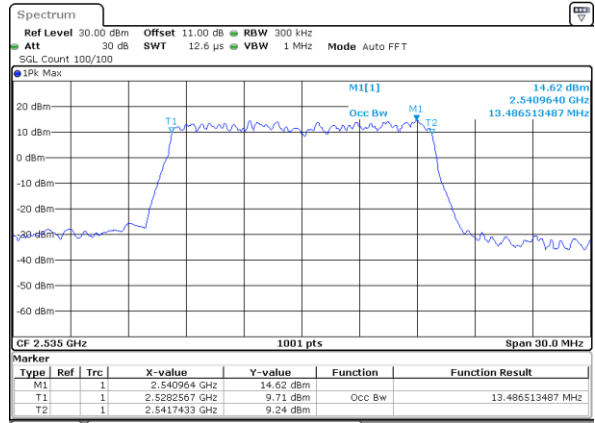
Date: 19_AUG.2022 04:24:02

Middle Channel / 15MHz / QPSK



Date: 19_AUG.2022 04:43:07

Middle Channel / 15MHz / 16QAM

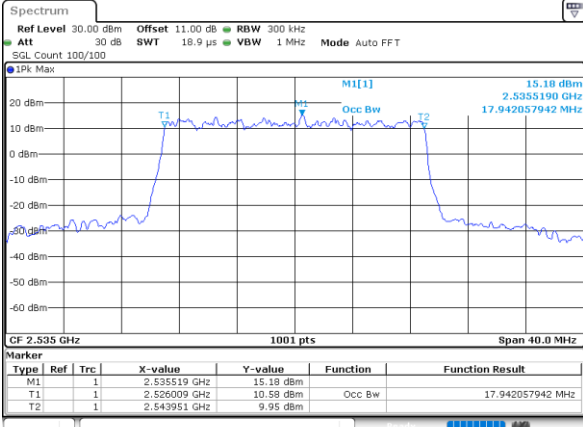


Date: 19_AUG.2022 04:43:36



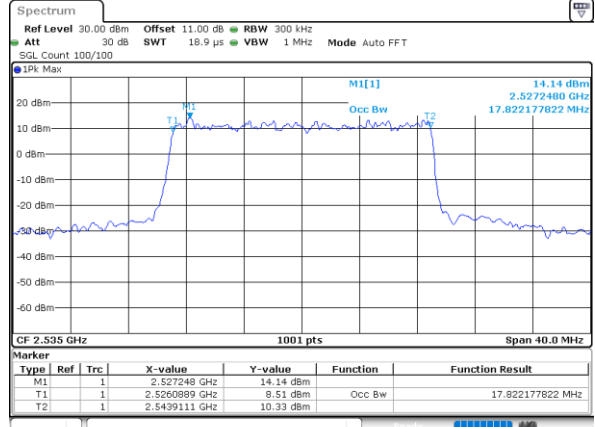
LTE Band 7

Middle Channel / 20MHz / QPSK



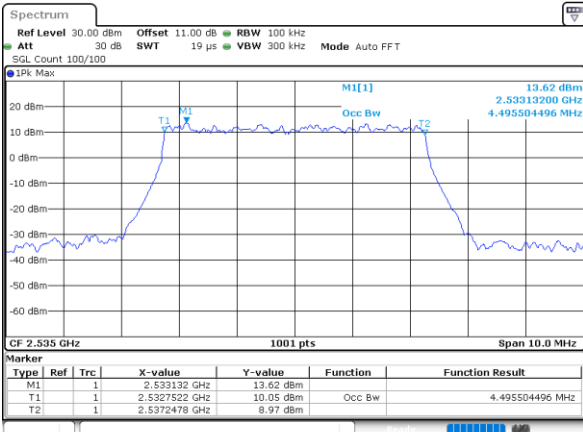
Date: 19_AUG.2022 09:06:44

Middle Channel / 20MHz / 16QAM



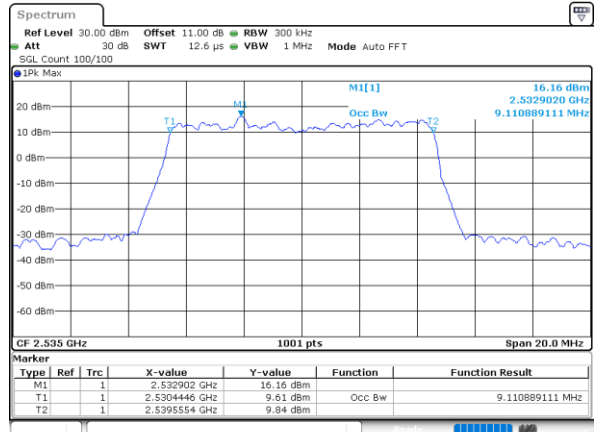
Date: 19_AUG.2022 09:07:13

Middle Channel / 5MHz / 64QAM



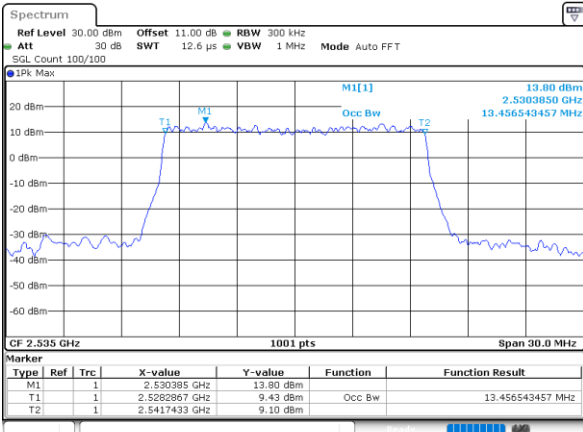
Date: 19_AUG.2022 04:15:03

Middle Channel / 10MHz / 64QAM



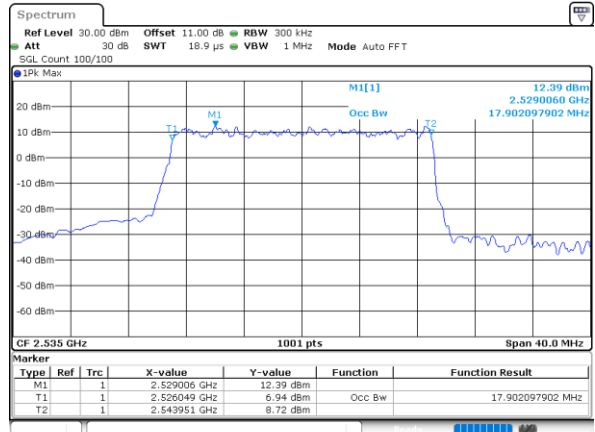
Date: 19_AUG.2022 04:34:32

Middle Channel / 15MHz / 64QAM



Date: 19_AUG.2022 04:54:07

Middle Channel / 20MHz / 64QAM

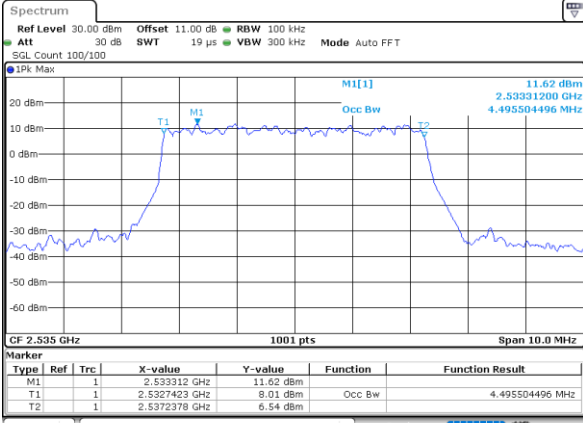


Date: 19_AUG.2022 09:17:40



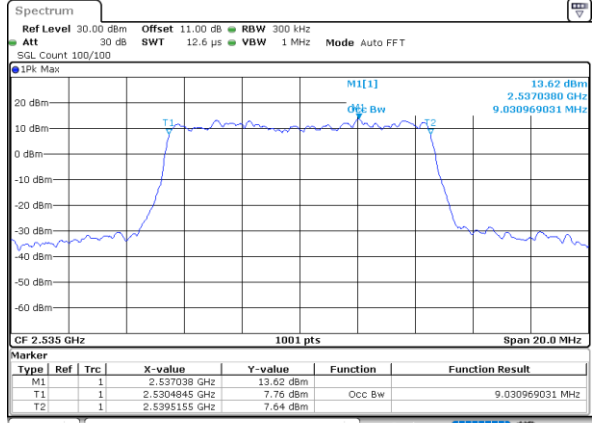
LTE Band 7

Middle Channel / 5MHz / 256QAM



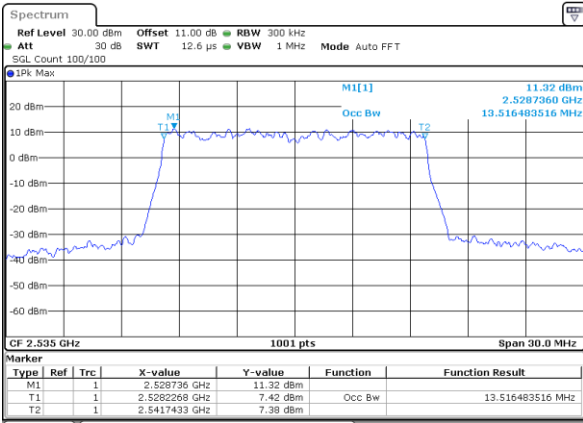
Date: 19_AUG.2022 09:24:20

Middle Channel / 10MHz / 256QAM



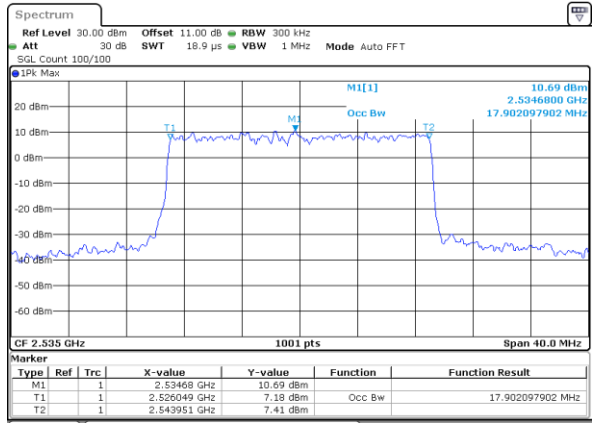
Date: 19_AUG.2022 09:29:30

Middle Channel / 15MHz / 256QAM



Date: 19_AUG.2022 09:34:40

Middle Channel / 20MHz / 256QAM



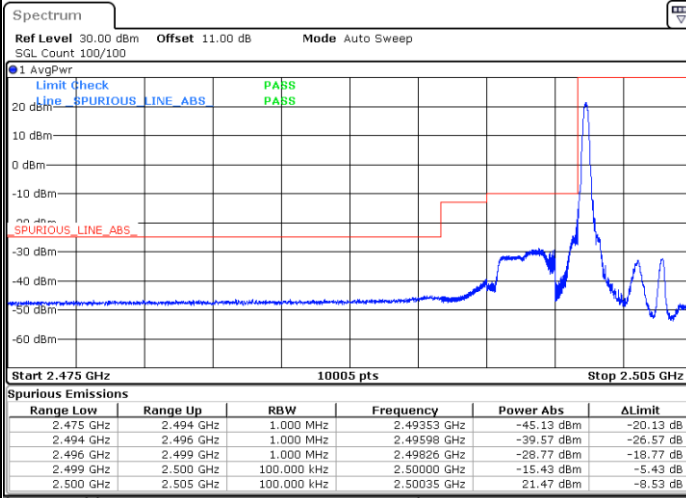
Date: 19_AUG.2022 09:39:47



Conducted Band Edge

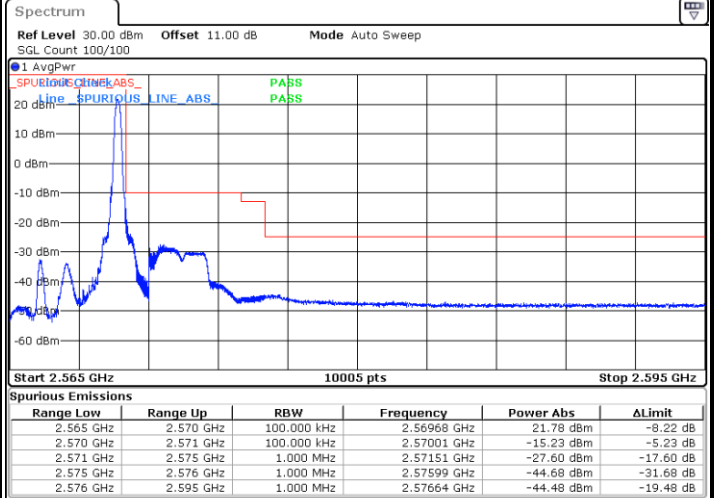
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



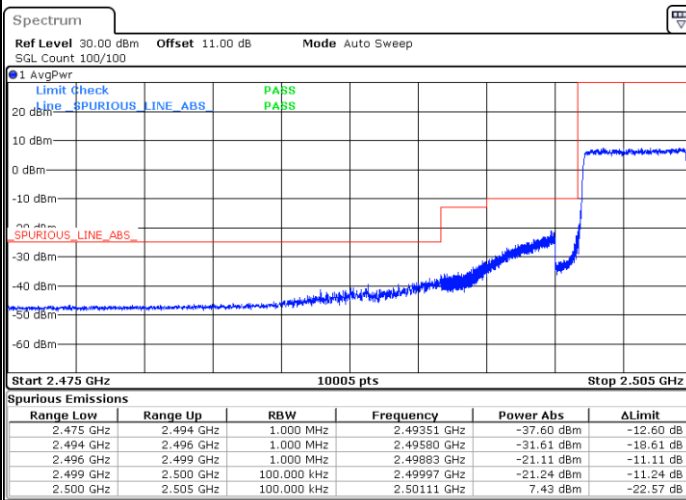
Date: 19.AUG.2022 03:59:07

Highest Band Edge / 1 RB



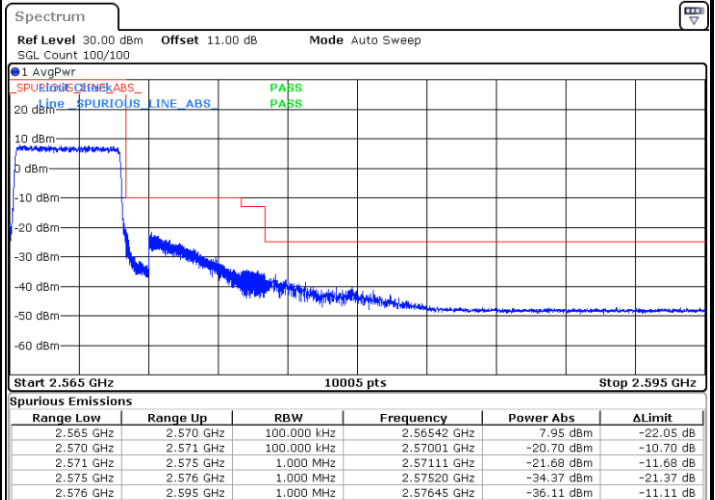
Date: 19.AUG.2022 04:07:57

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:01:17

Highest Band Edge / Full RB

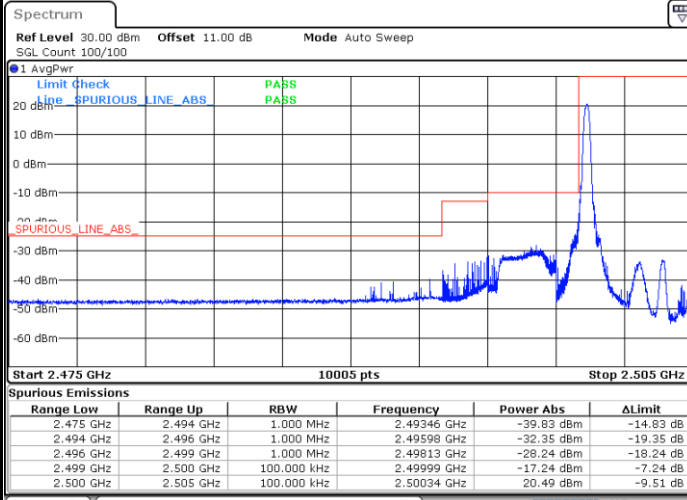


Date: 19.AUG.2022 04:10:04



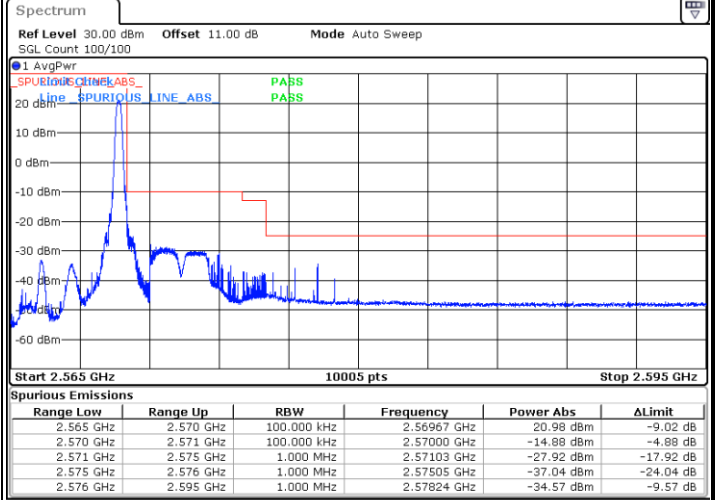
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



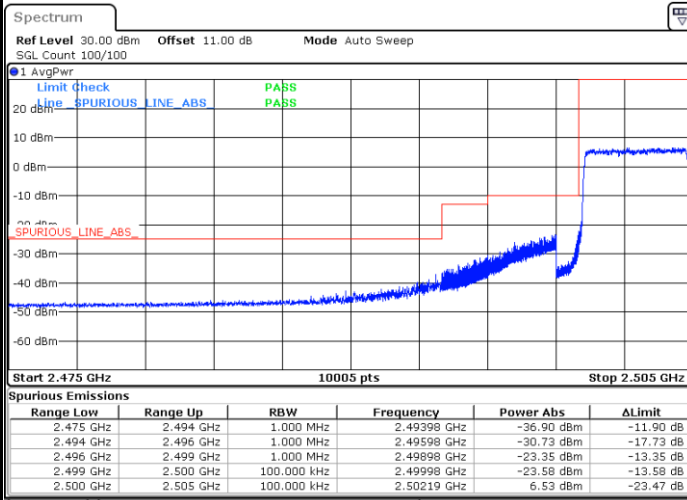
Date: 19.AUG.2022 04:00:12

Highest Band Edge / 1 RB



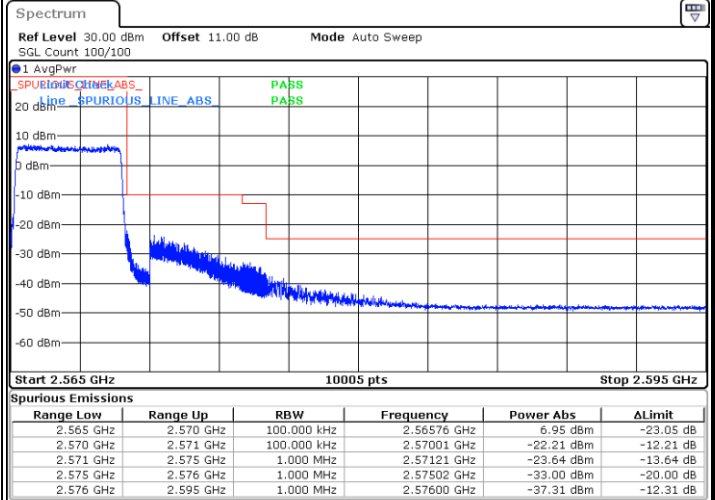
Date: 19.AUG.2022 04:09:00

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:02:21

Highest Band Edge / Full RB

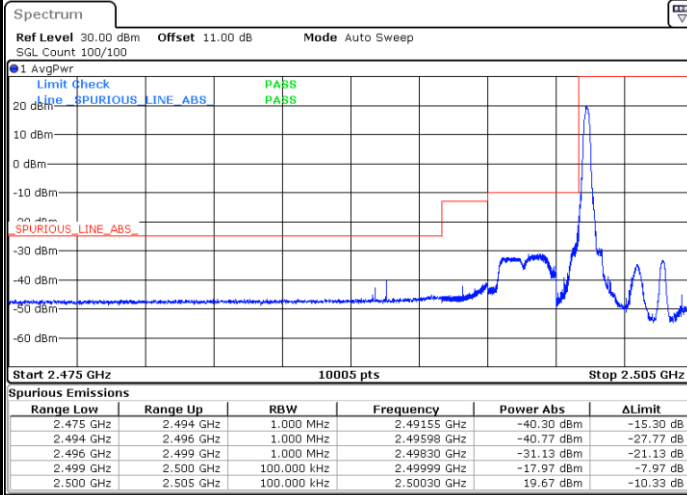


Date: 19.AUG.2022 04:11:08



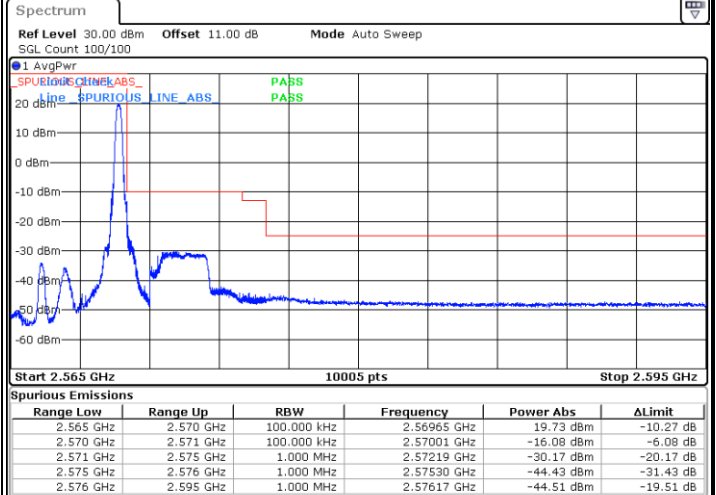
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



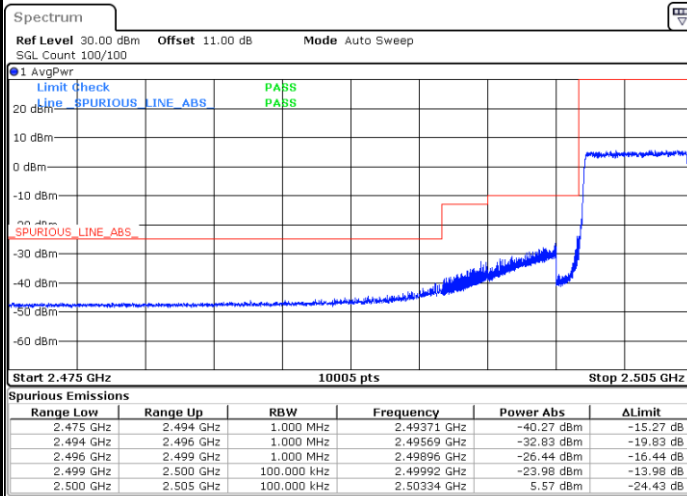
Date: 19.AUG.2022 04:13:30

Highest Band Edge / 1 RB



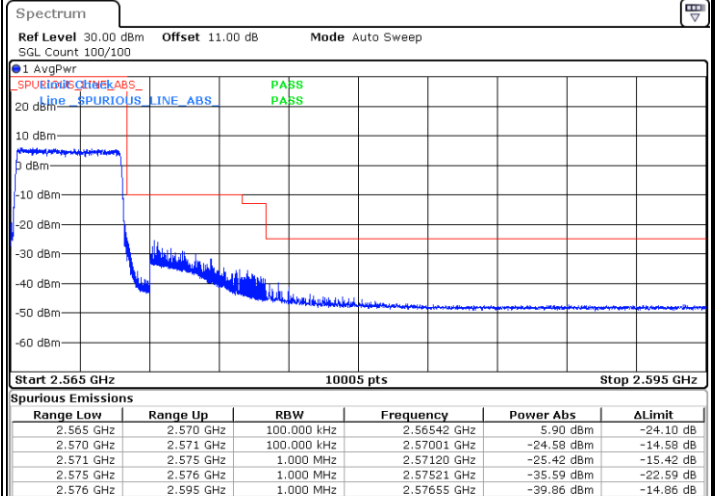
Date: 19.AUG.2022 04:16:21

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:14:34

Highest Band Edge / Full RB

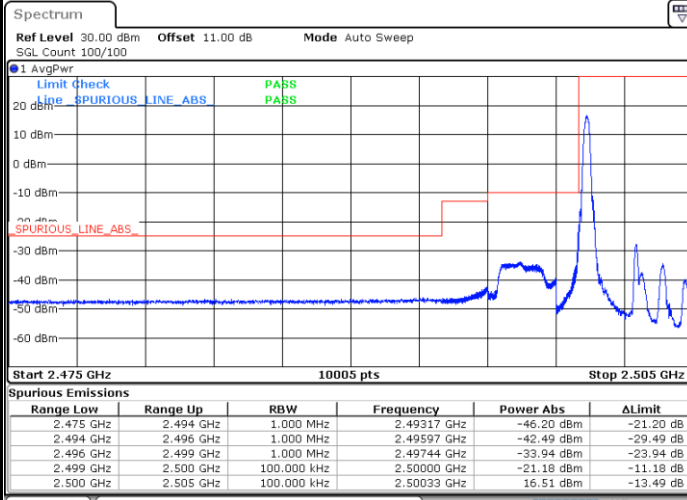


Date: 19.AUG.2022 04:17:25



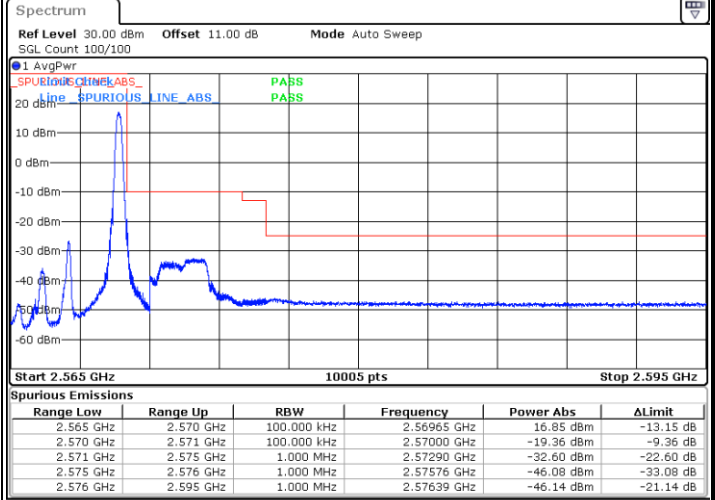
LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB



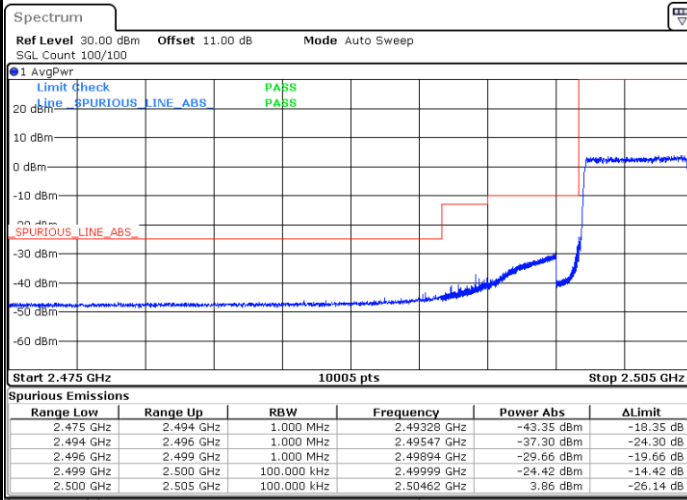
Date: 19.AUG.2022 09:22:44

Highest Band Edge / 1 RB



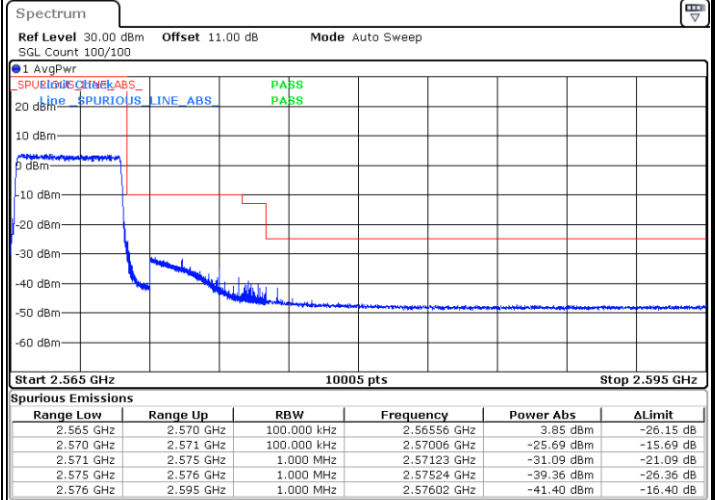
Date: 19.AUG.2022 09:25:38

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:23:51

Highest Band Edge / Full RB

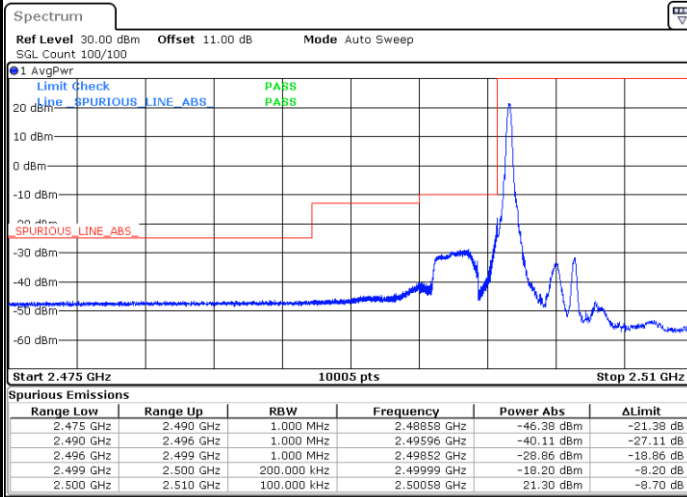


Date: 19.AUG.2022 09:26:44



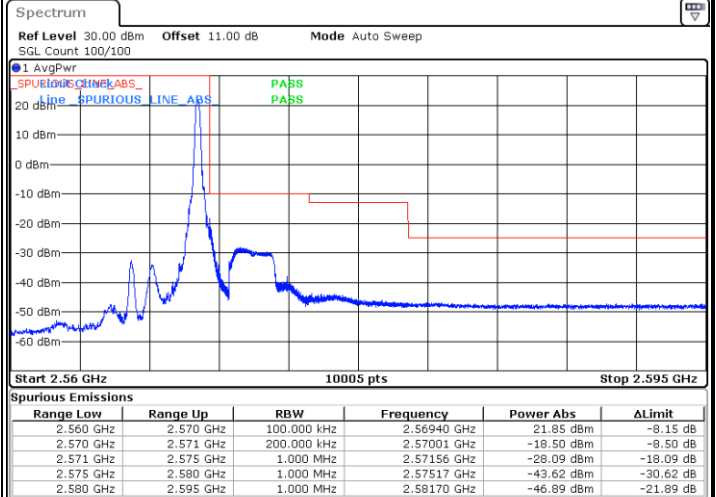
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



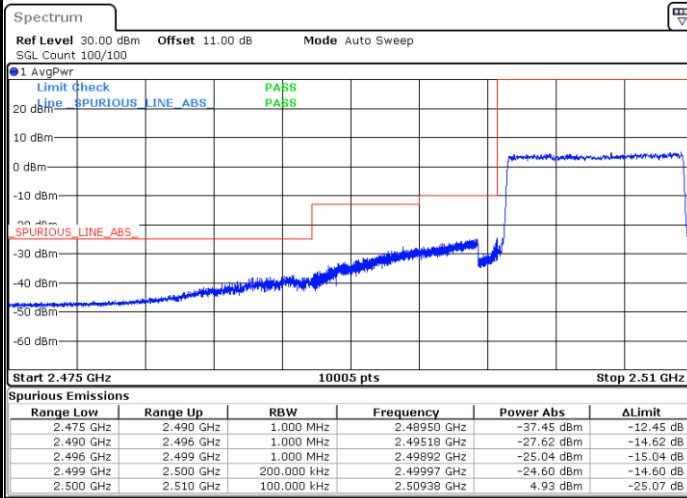
Date: 19.AUG.2022 04:18:33

Highest Band Edge / 1 RB



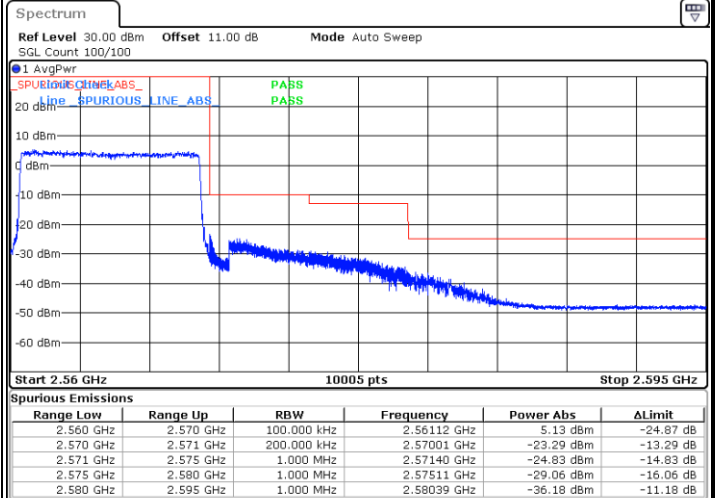
Date: 19.AUG.2022 04:27:22

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:20:41

Highest Band Edge / Full RB

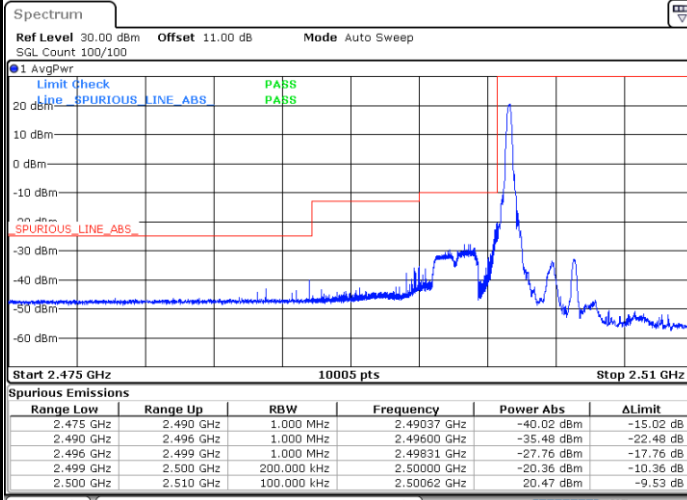


Date: 19.AUG.2022 04:29:31



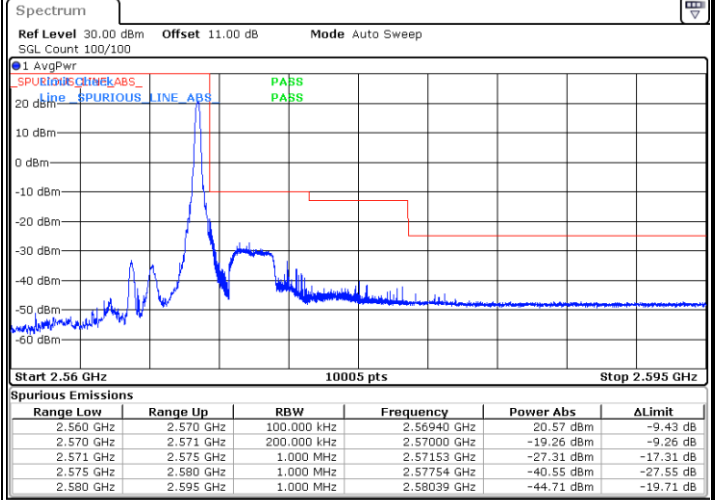
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



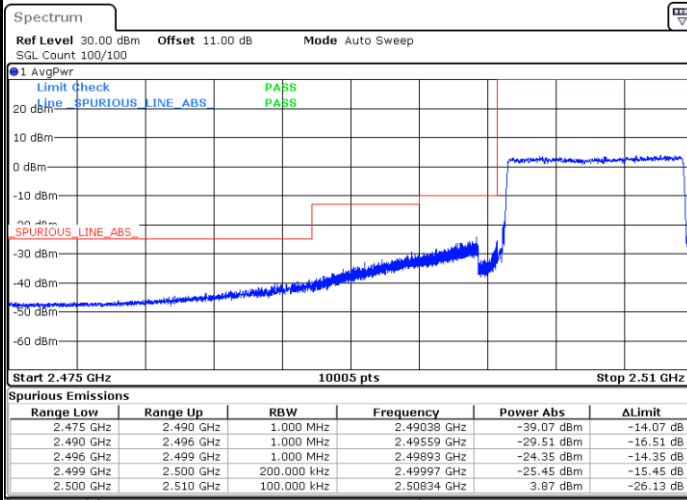
Date: 19.AUG.2022 04:19:37

Highest Band Edge / 1 RB



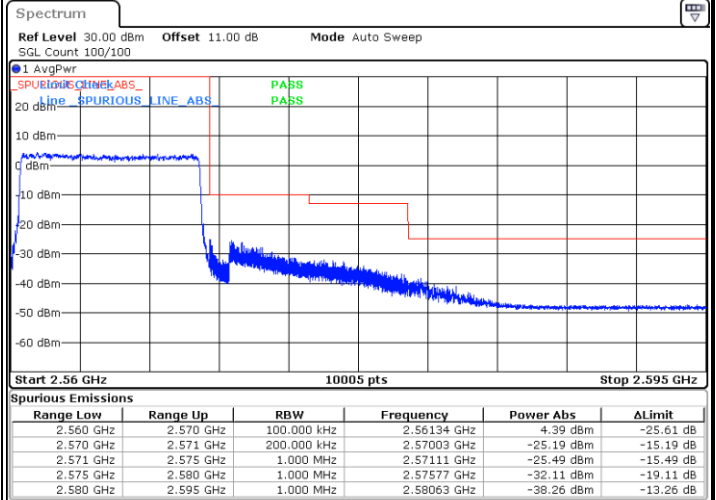
Date: 19.AUG.2022 04:28:26

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:21:45

Highest Band Edge / Full RB

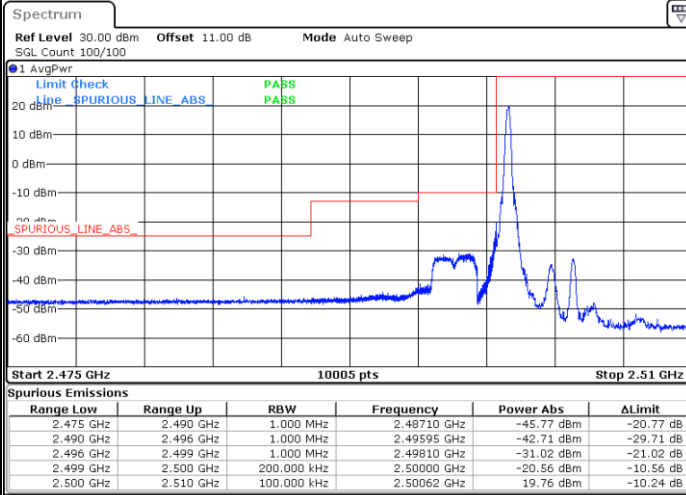


Date: 19.AUG.2022 04:30:36



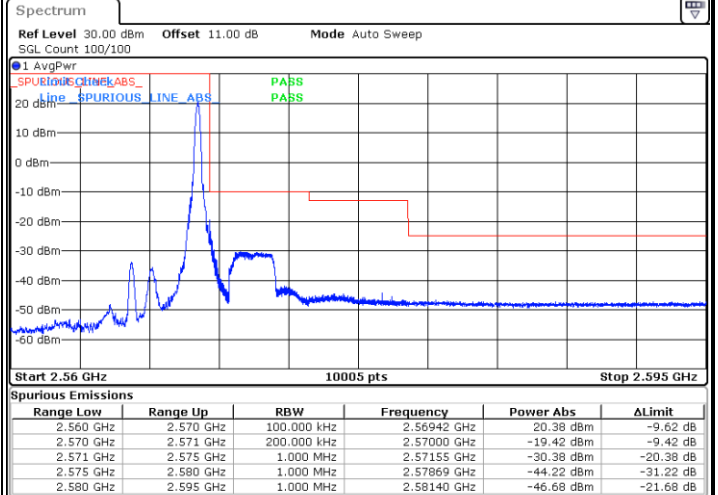
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



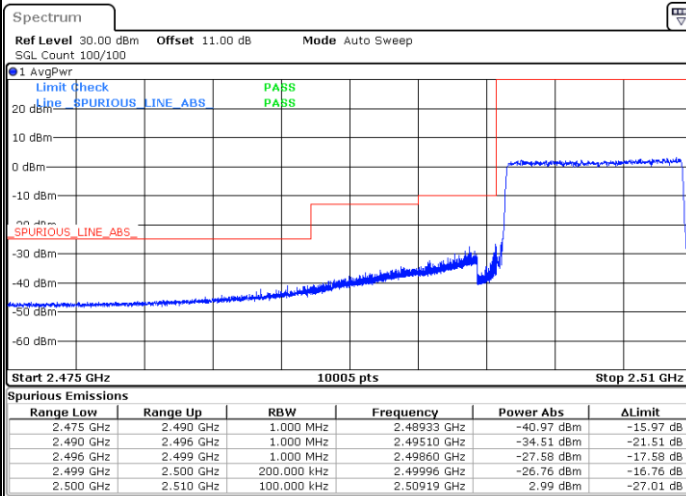
Date: 19.AUG.2022 04:32:58

Highest Band Edge / 1 RB



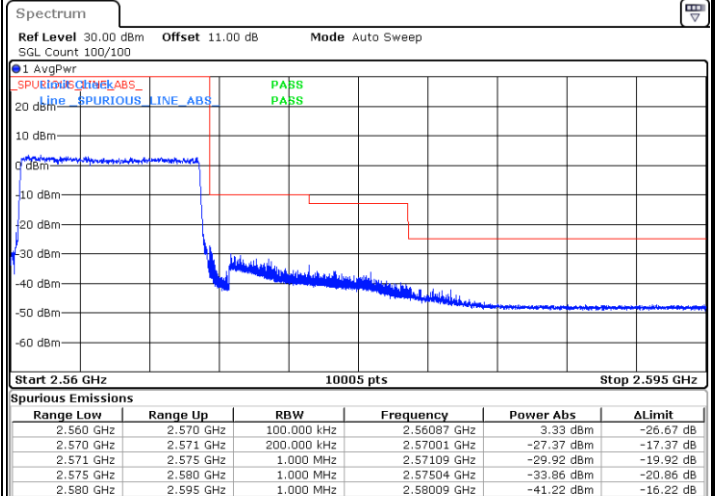
Date: 19.AUG.2022 04:35:50

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:34:02

Highest Band Edge / Full RB

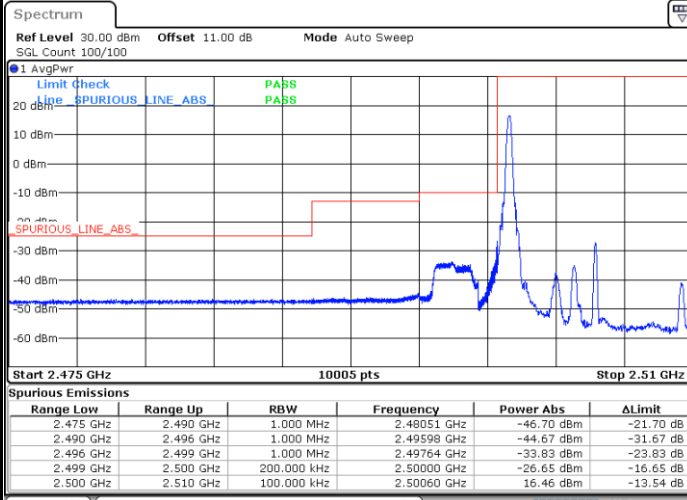


Date: 19.AUG.2022 04:36:54



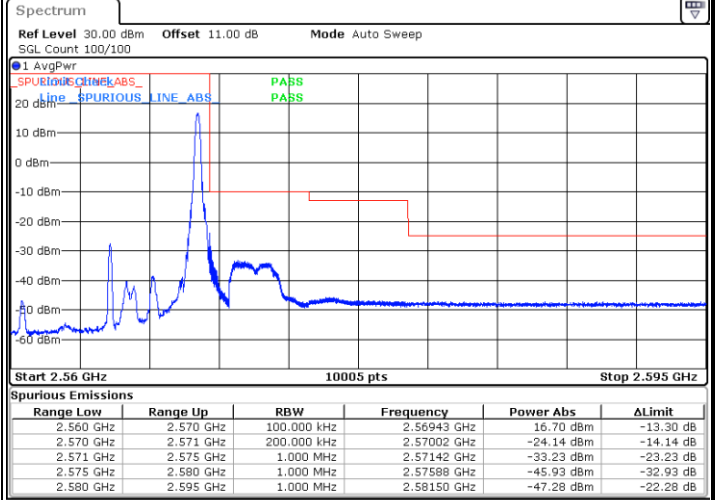
LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



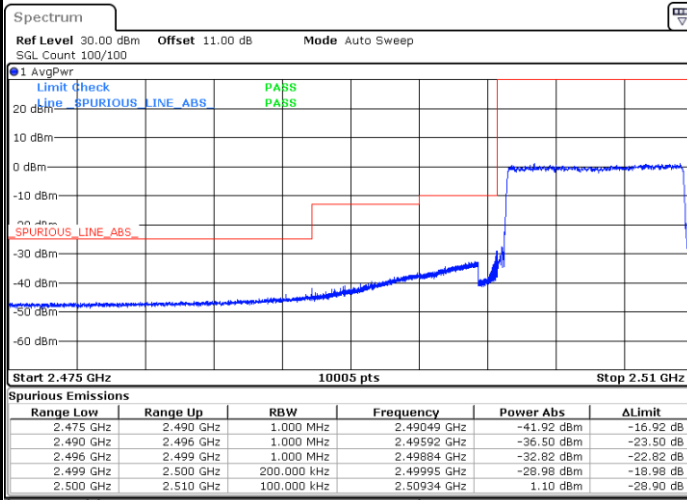
Date: 19.AUG.2022 09:27:53

Highest Band Edge / 1 RB



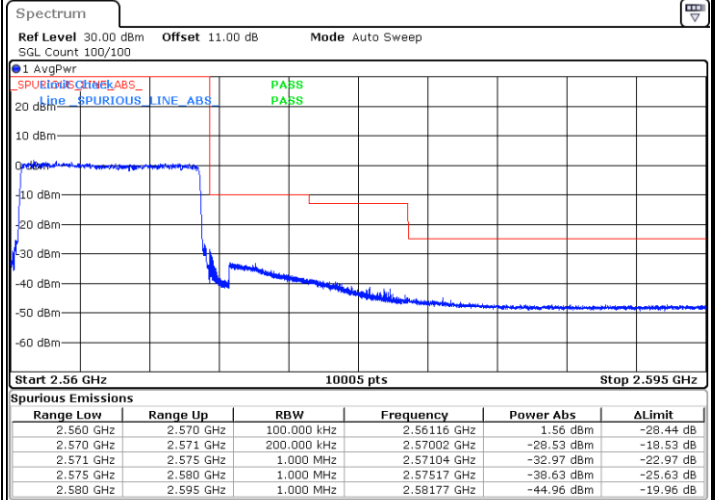
Date: 19.AUG.2022 09:30:47

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:29:00

Highest Band Edge / Full RB

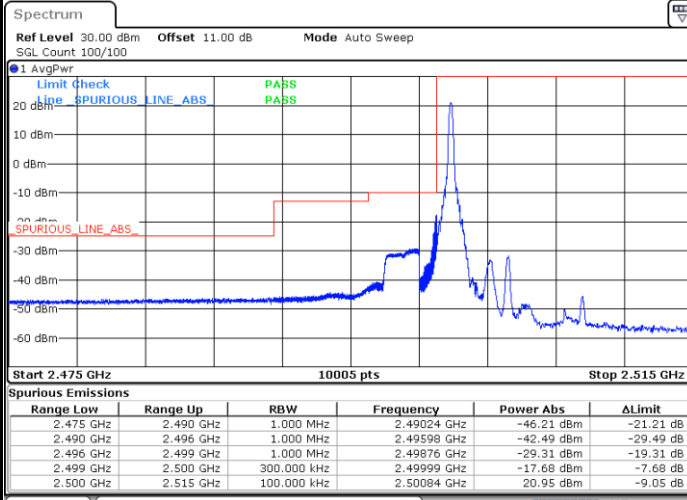


Date: 19.AUG.2022 09:31:54



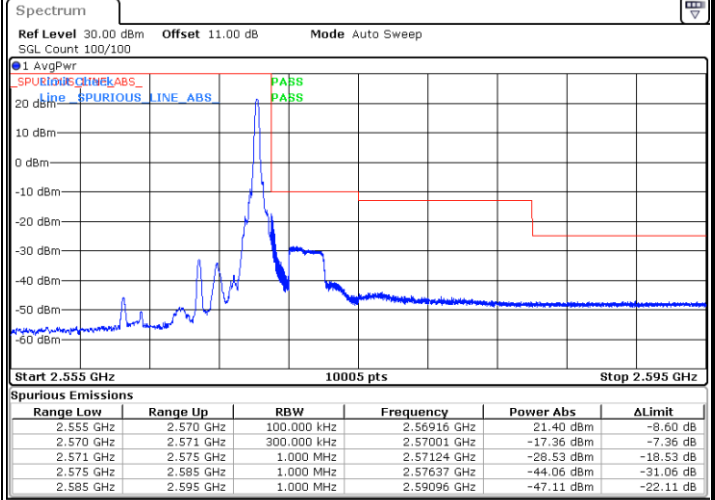
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



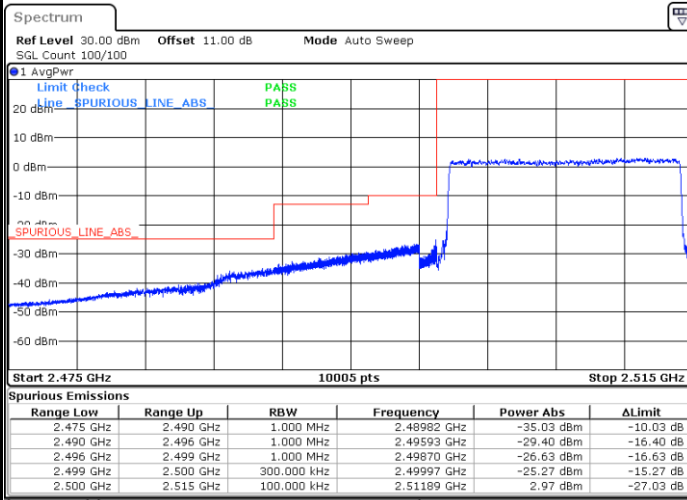
Date: 19.AUG.2022 04:38:03

Highest Band Edge / 1 RB



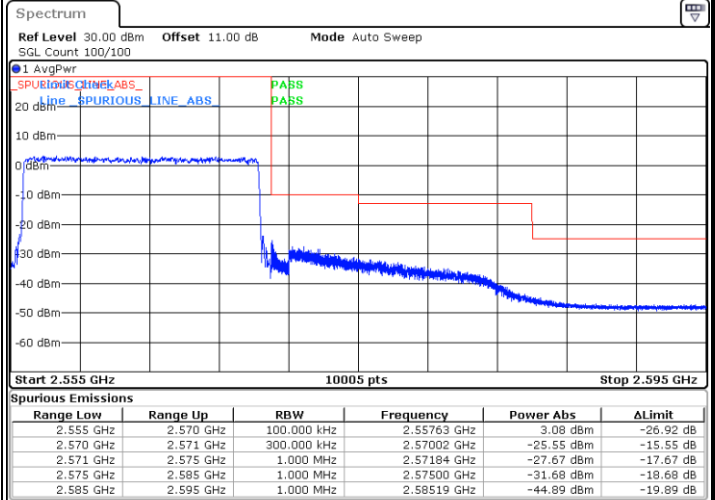
Date: 19.AUG.2022 04:46:57

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:40:14

Highest Band Edge / Full RB

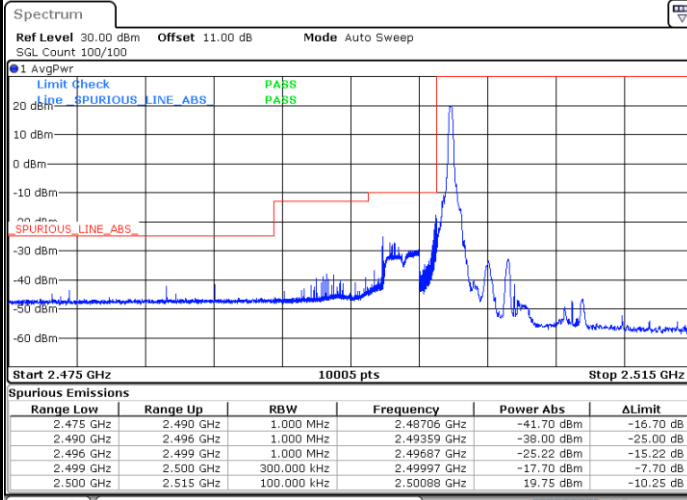


Date: 19.AUG.2022 04:49:06



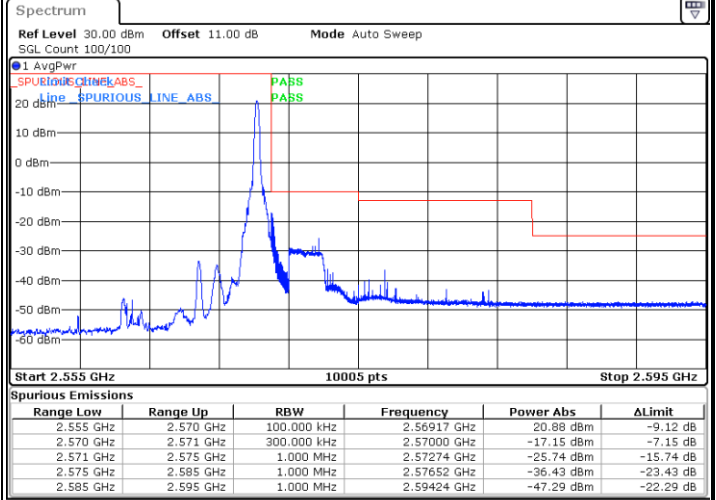
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



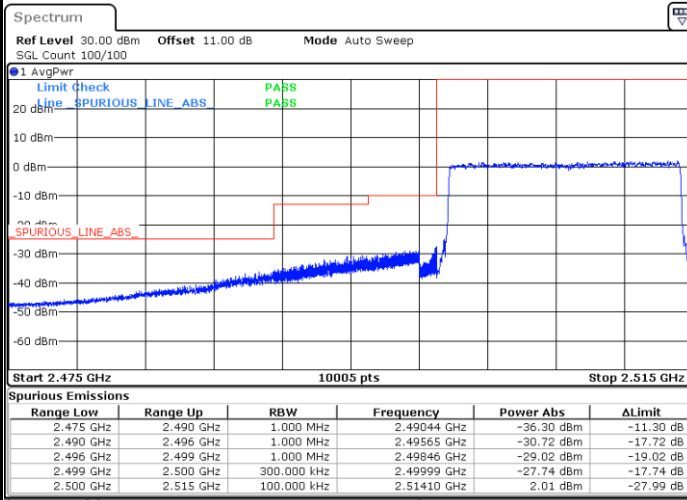
Date: 19.AUG.2022 04:39:09

Highest Band Edge / 1 RB



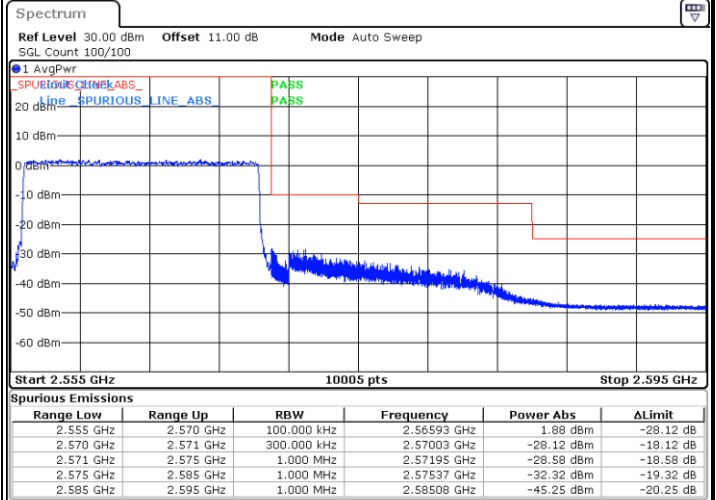
Date: 19.AUG.2022 04:48:01

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:41:18

Highest Band Edge / Full RB

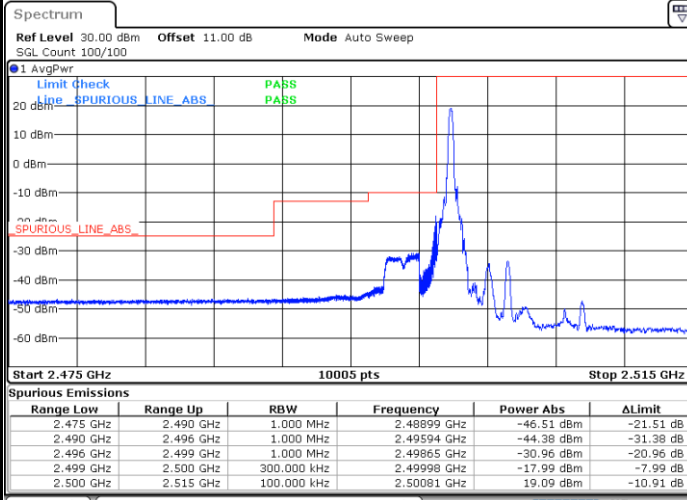


Date: 19.AUG.2022 04:50:10



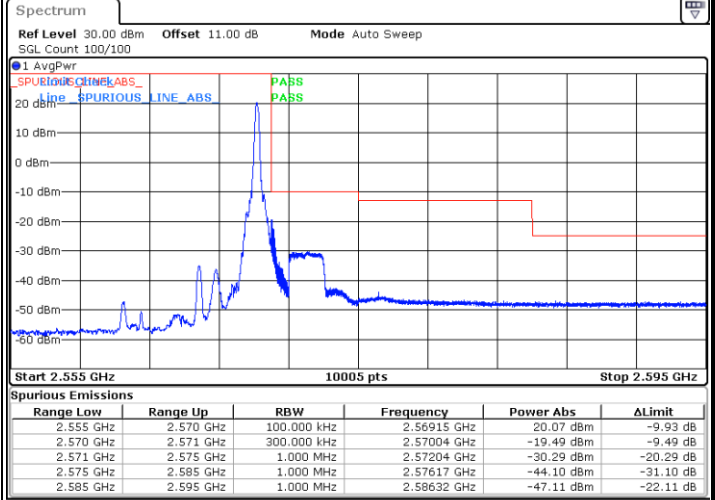
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



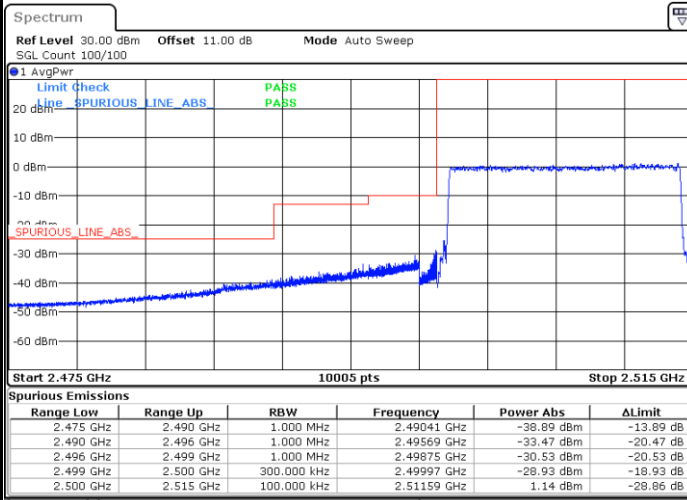
Date: 19.AUG.2022 04:52:32

Highest Band Edge / 1 RB



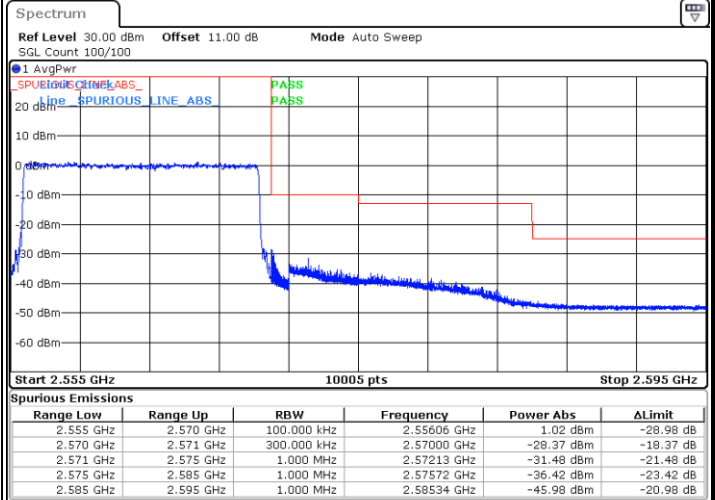
Date: 19.AUG.2022 04:55:24

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:53:37

Highest Band Edge / Full RB

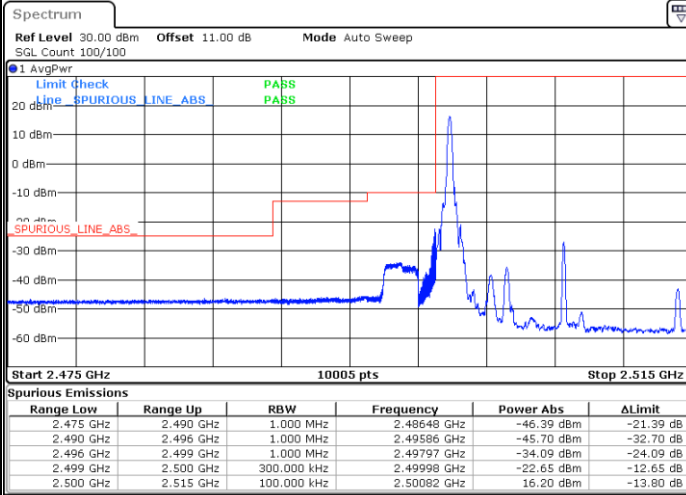


Date: 19.AUG.2022 04:56:28



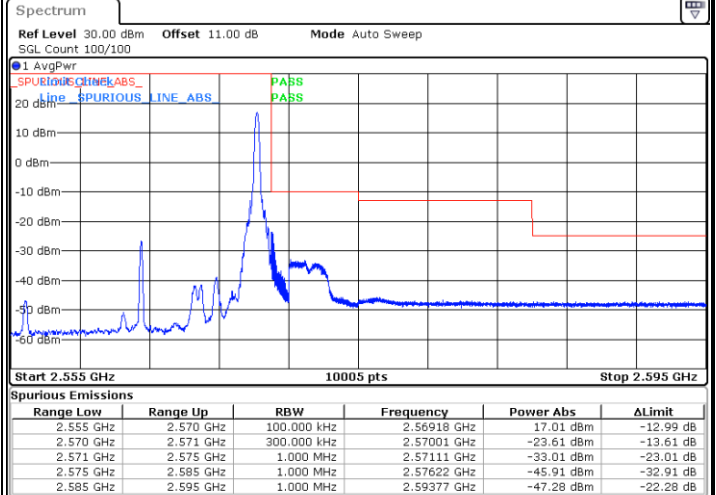
LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



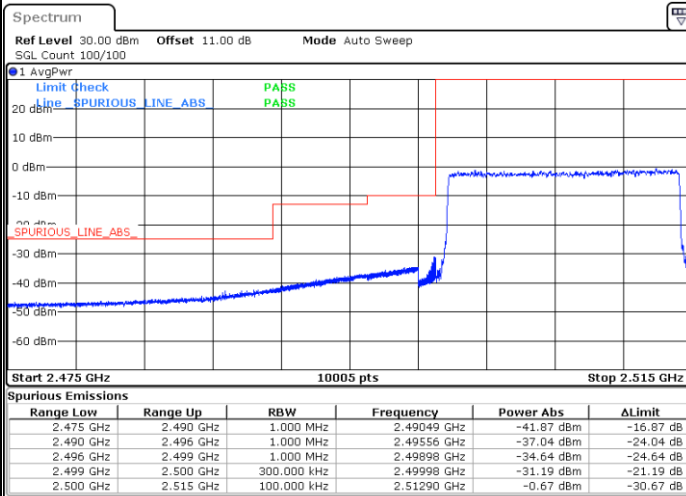
Date: 19.AUG.2022 09:33:03

Highest Band Edge / 1 RB



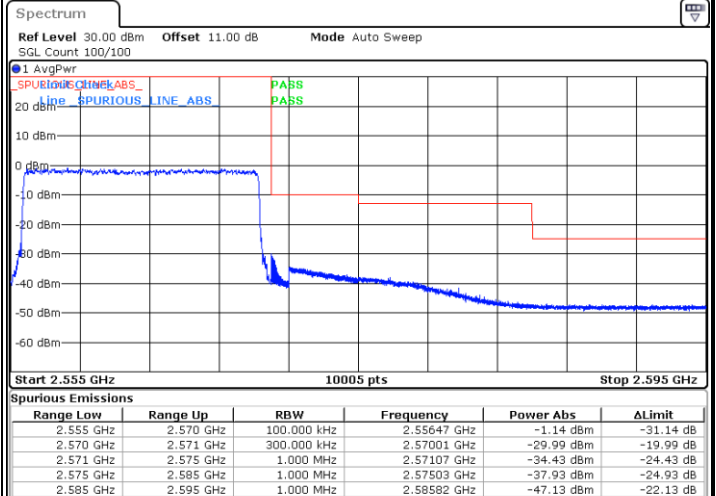
Date: 19.AUG.2022 09:35:57

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:34:10

Highest Band Edge / Full RB

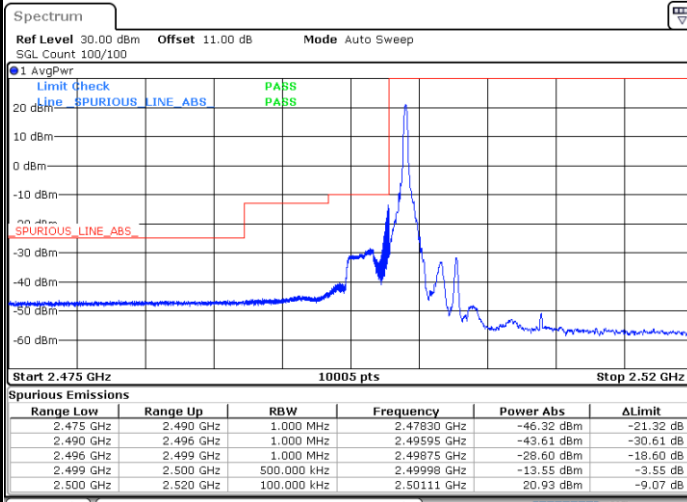


Date: 19.AUG.2022 09:37:04



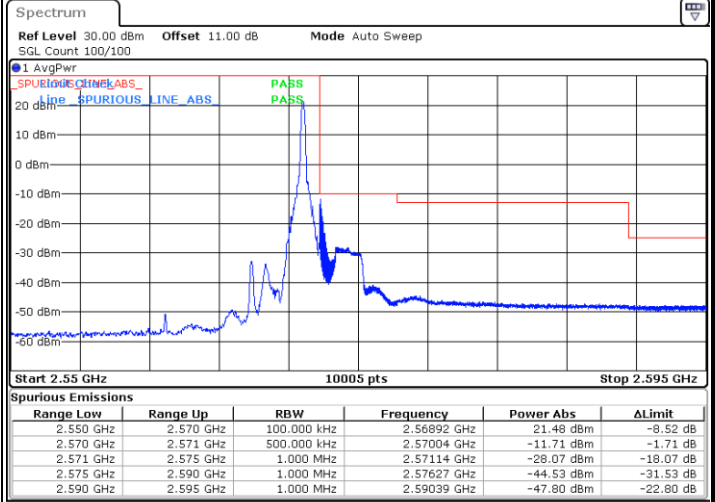
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



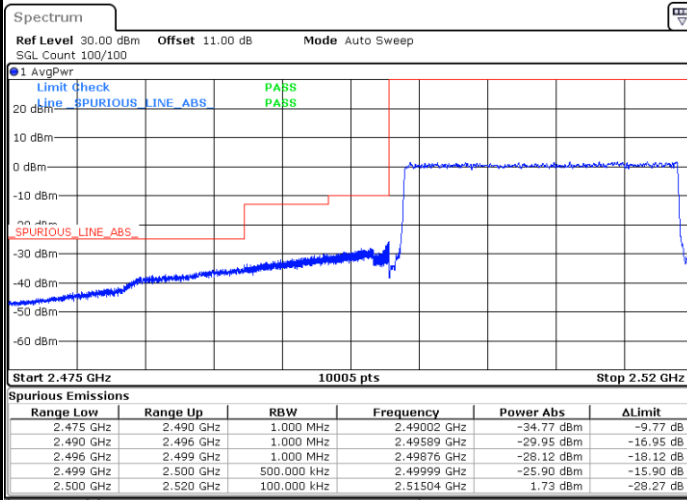
Date: 19.AUG.2022 09:01:44

Highest Band Edge / 1 RB



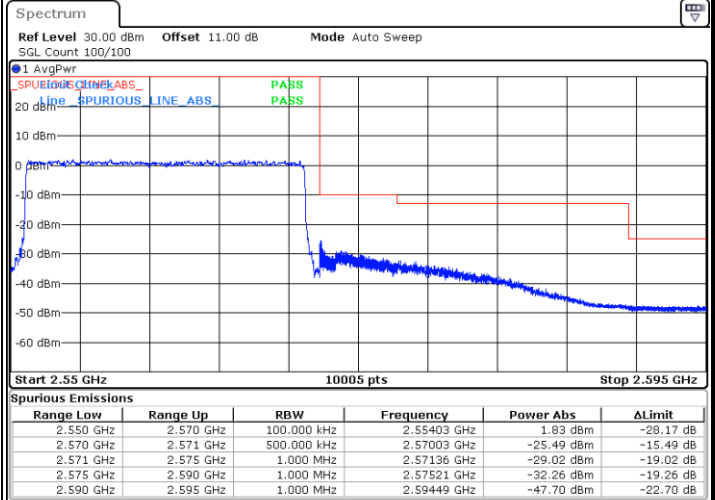
Date: 19.AUG.2022 09:10:32

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:03:52

Highest Band Edge / Full RB

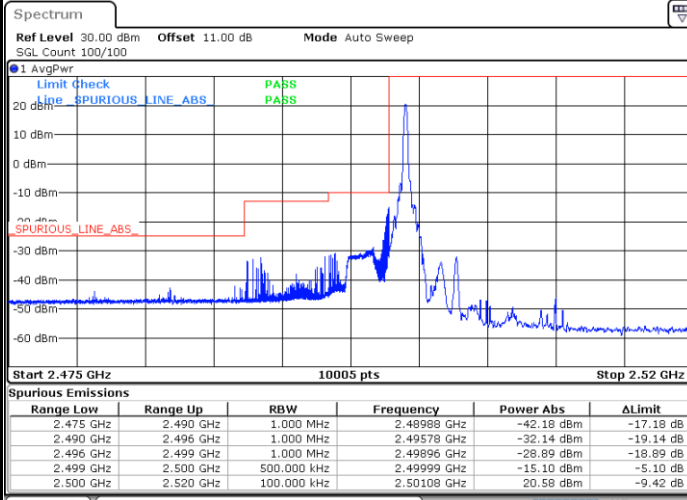


Date: 19.AUG.2022 09:13:43



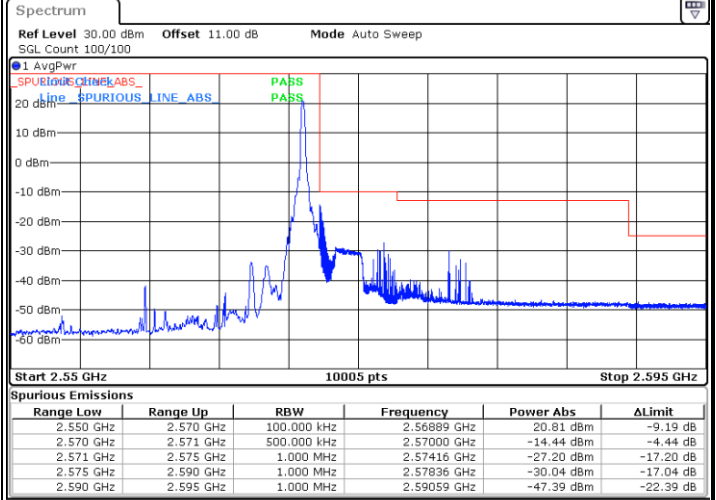
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



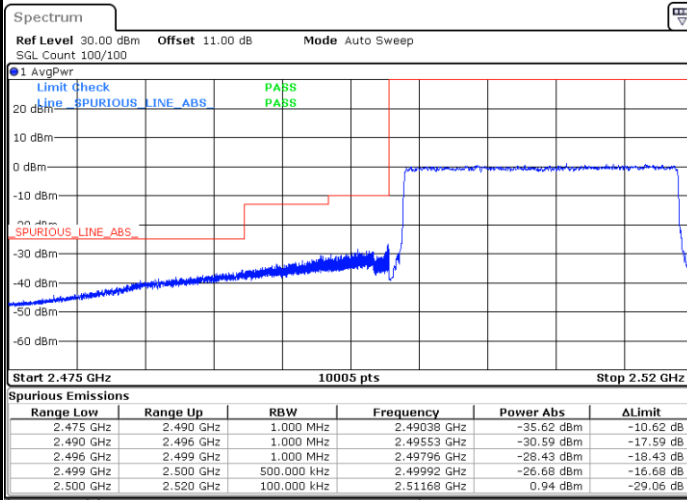
Date: 19.AUG.2022 09:02:48

Highest Band Edge / 1 RB



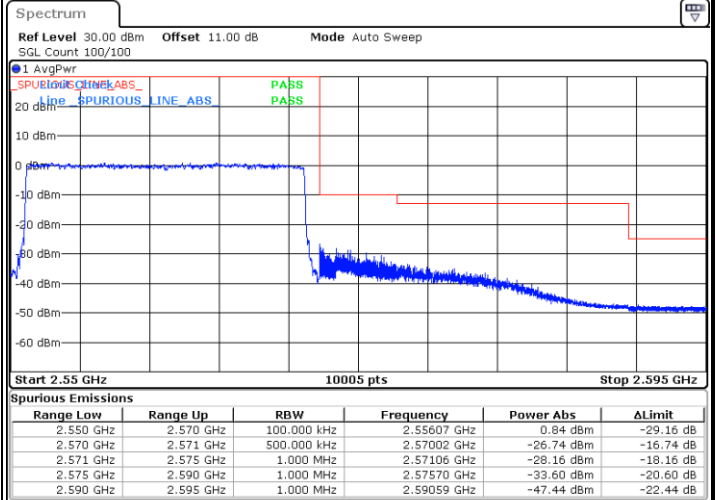
Date: 19.AUG.2022 09:11:36

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:04:56

Highest Band Edge / Full RB

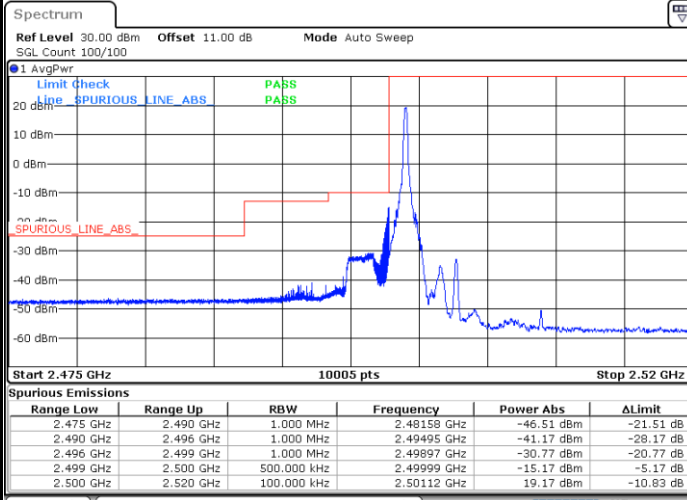


Date: 19.AUG.2022 09:12:39



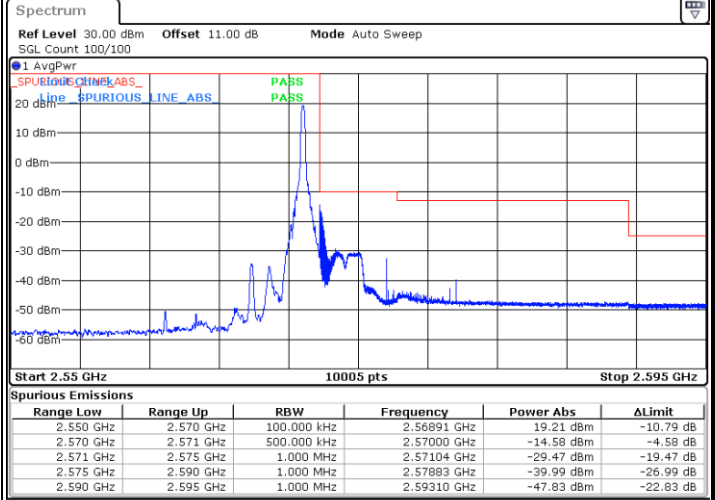
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



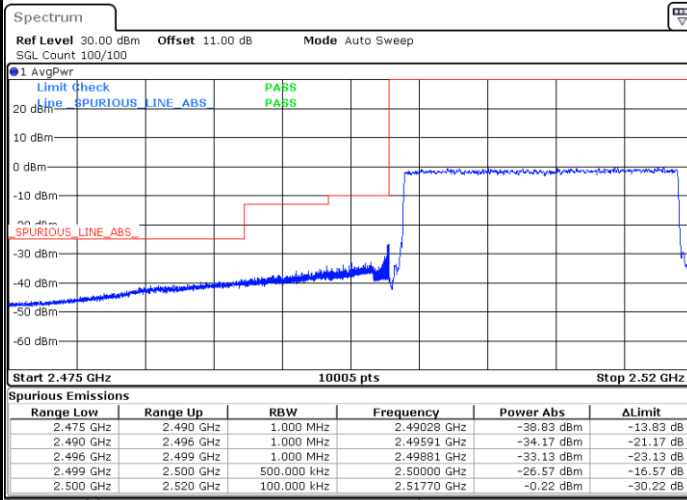
Date: 19.AUG.2022 09:16:05

Highest Band Edge / 1 RB



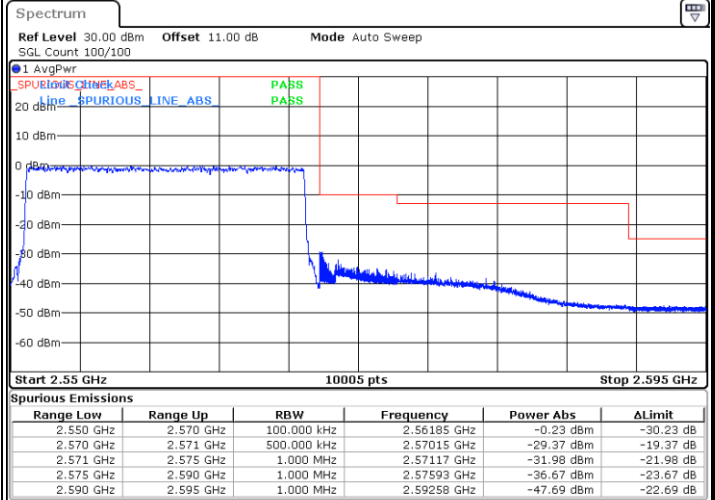
Date: 19.AUG.2022 09:18:57

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:17:10

Highest Band Edge / Full RB

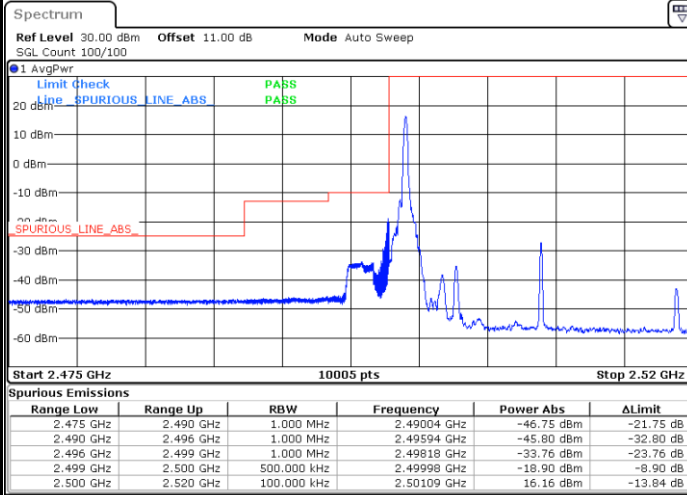


Date: 19.AUG.2022 09:20:02



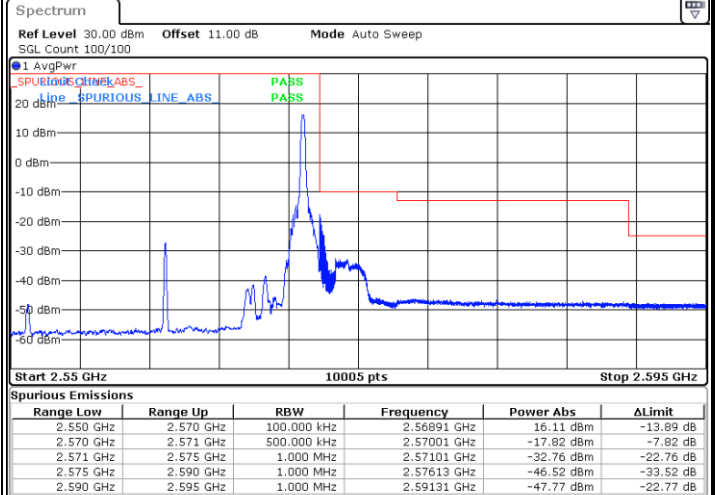
LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



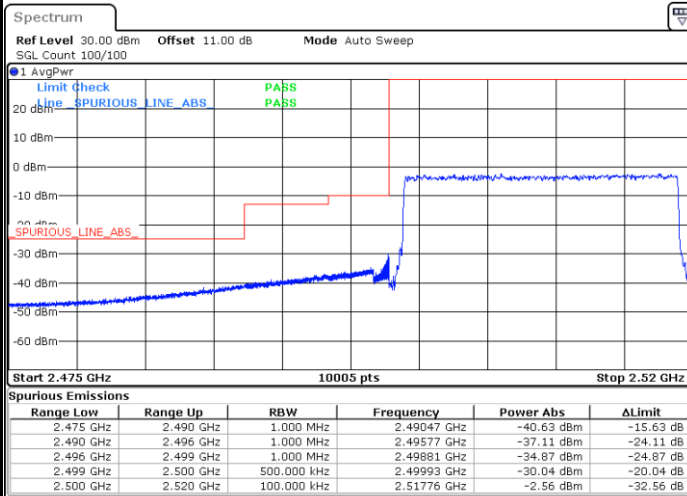
Date: 19.AUG.2022 09:38:13

Highest Band Edge / 1 RB



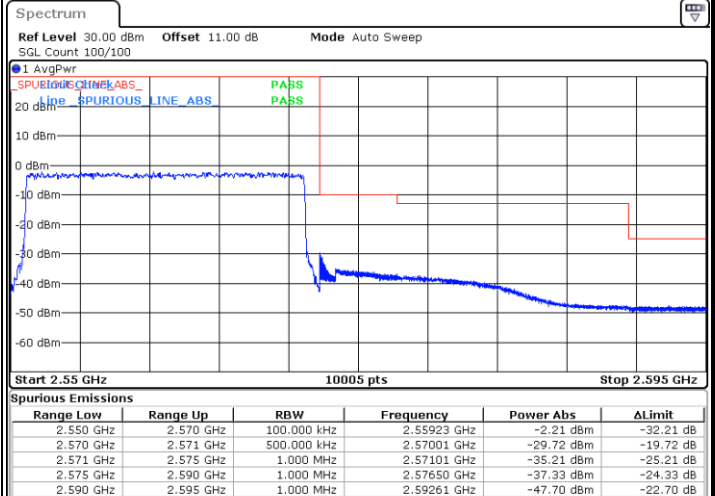
Date: 19.AUG.2022 09:41:04

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:39:17

Highest Band Edge / Full RB



Date: 19.AUG.2022 09:42:11



Conducted Spurious Emission

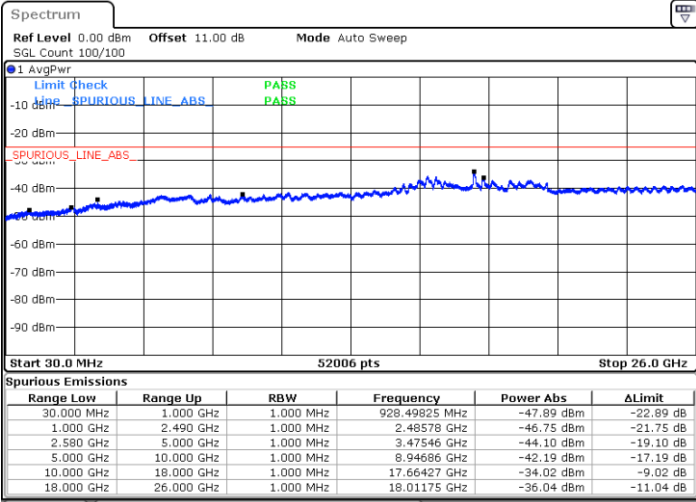




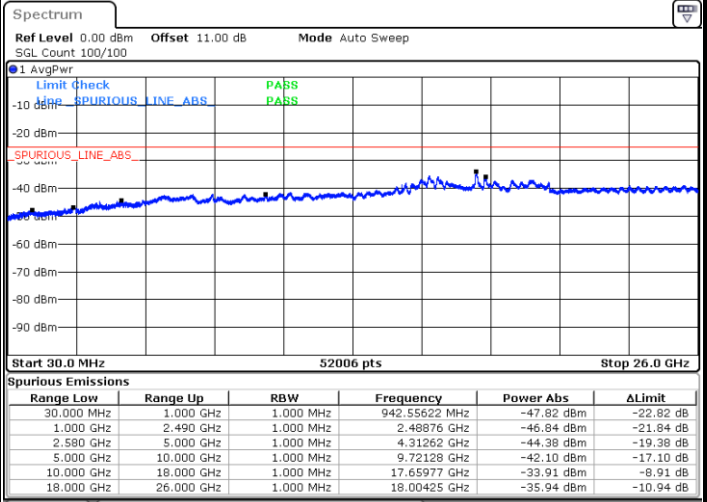
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

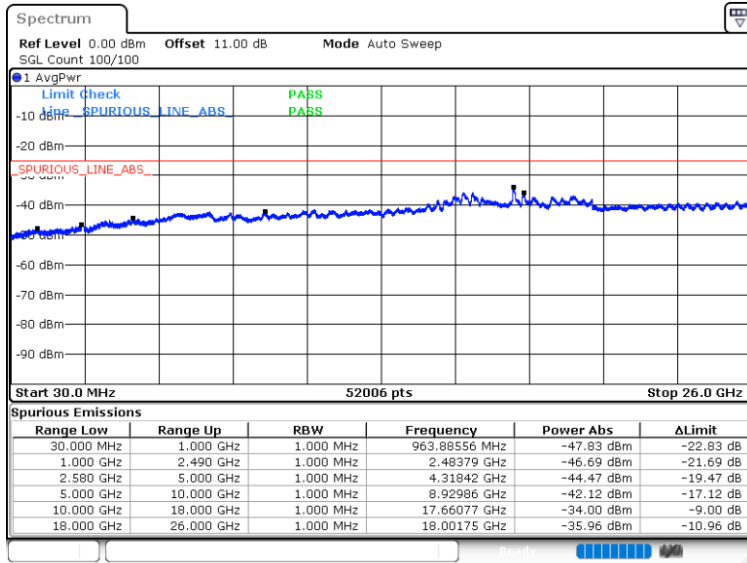


Date: 19.AUG.2022 04:23:02



Date: 19.AUG.2022 04:26:17

Highest Channel / QPSK



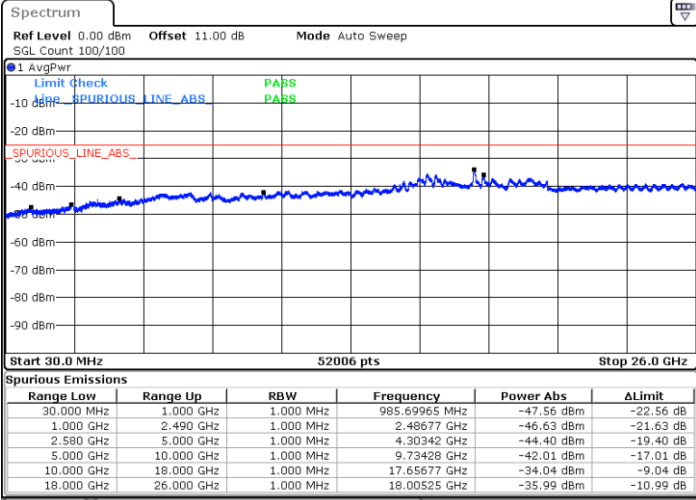
Date: 19.AUG.2022 04:31:54



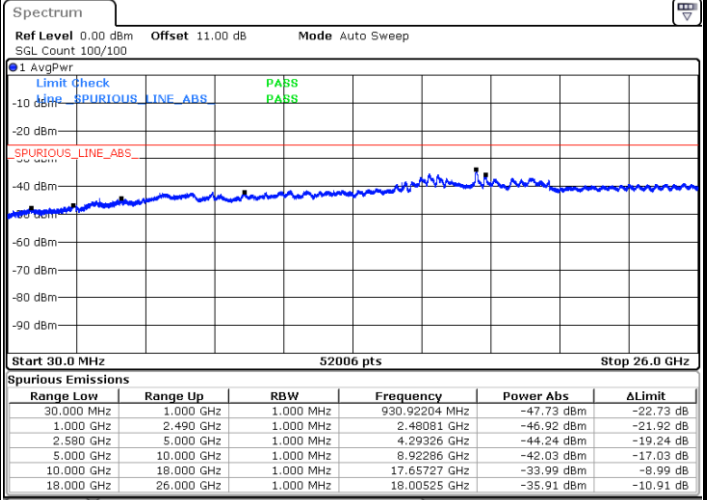
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

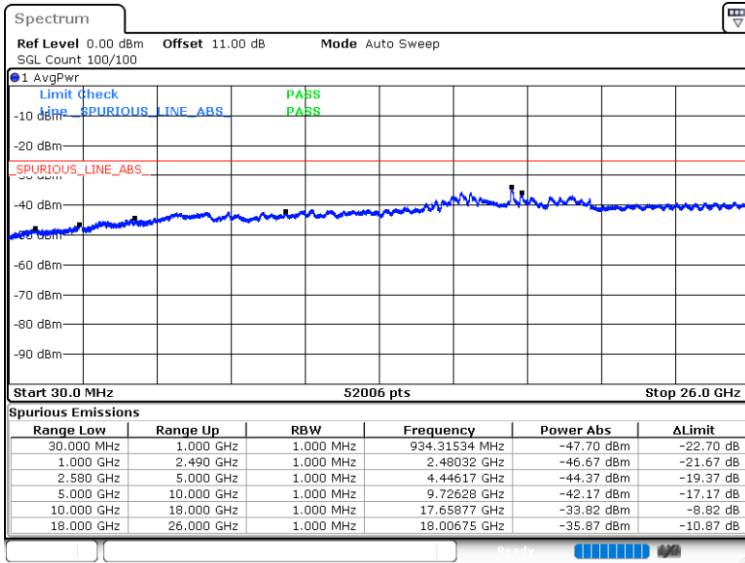


Date: 19.AUG.2022 04:42:36



Date: 19.AUG.2022 04:45:51

Highest Channel / QPSK



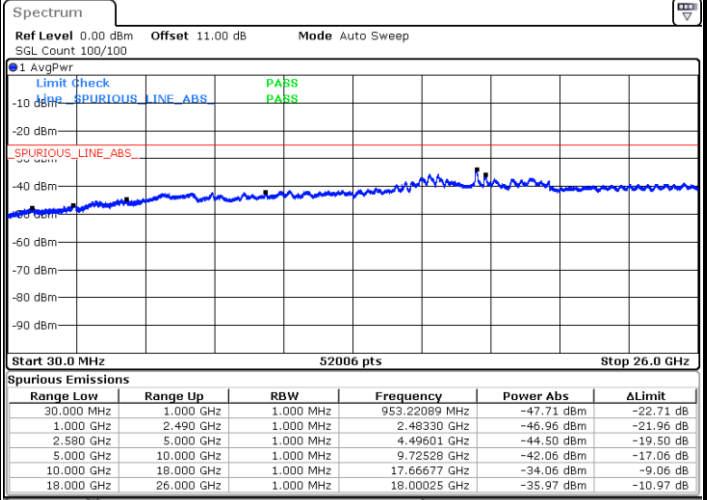
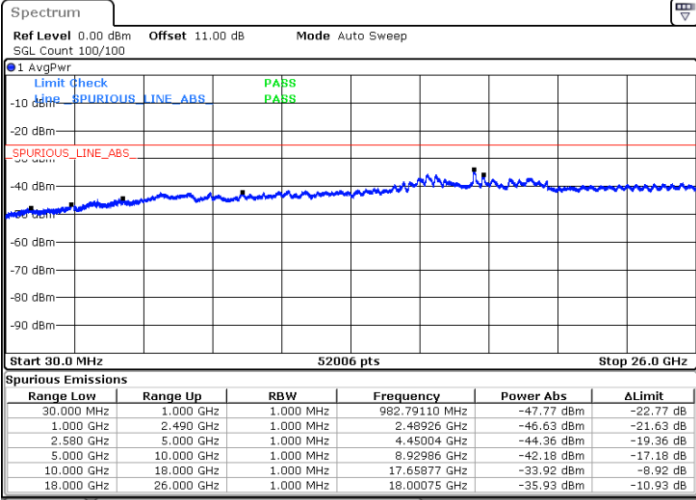
Date: 19.AUG.2022 04:51:28



LTE Band 7 / 20MHz

Lowest Channel / QPSK

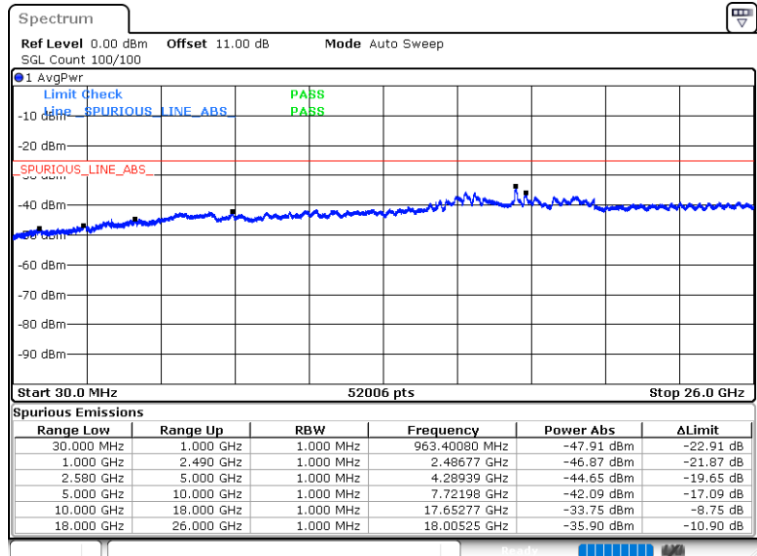
Middle Channel / QPSK



Date: 19.AUG.2022 09:06:14

Date: 19.AUG.2022 09:09:27

Highest Channel / QPSK



Date: 19.AUG.2022 09:15:00



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

- 1. Normal Voltage = 3.30 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C

26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.27	25.23	30.63	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.90	40.04	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.97	25.33	30.39	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.76	39.72	

Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.28	30.81	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.21	35.11	39.80	

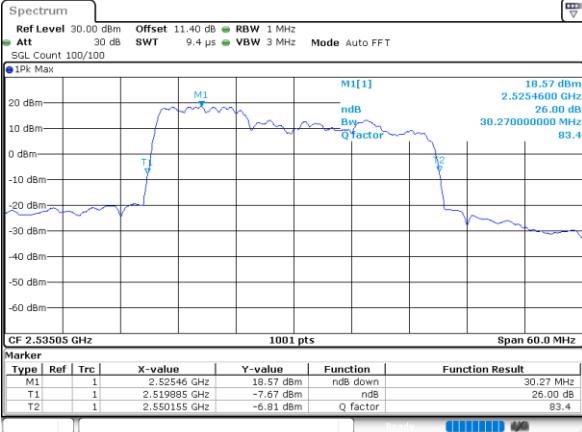
Mode	LTE Band 7C : 26dB BW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.79	25.18	30.51	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.97	39.56	



LTE Band 7C

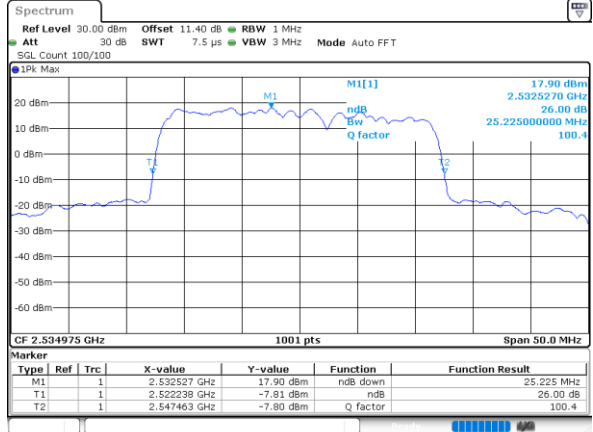
QPSK

Middle Channel / 10MHz+20MHz



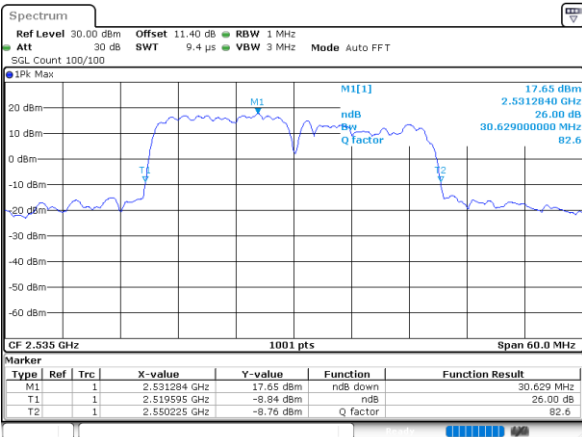
Date: 24_AUG.2022 23:44:07

Middle Channel / 15MHz+10MHz



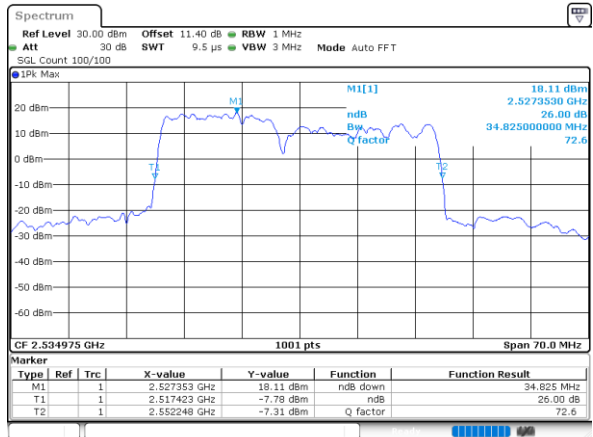
Date: 25_AUG.2022 05:12:01

Middle Channel / 15MHz+15MHz



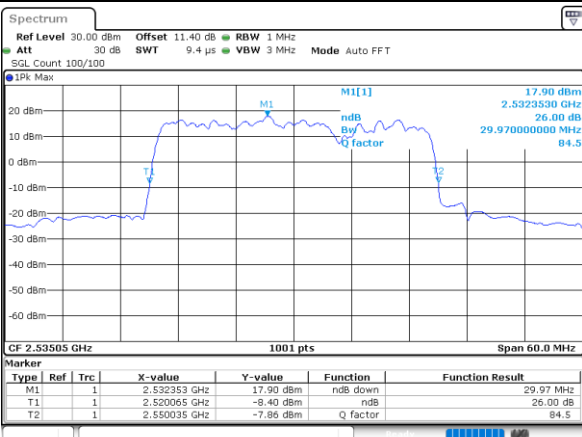
Date: 25_AUG.2022 01:53:43

Middle Channel / 15MHz+20MHz



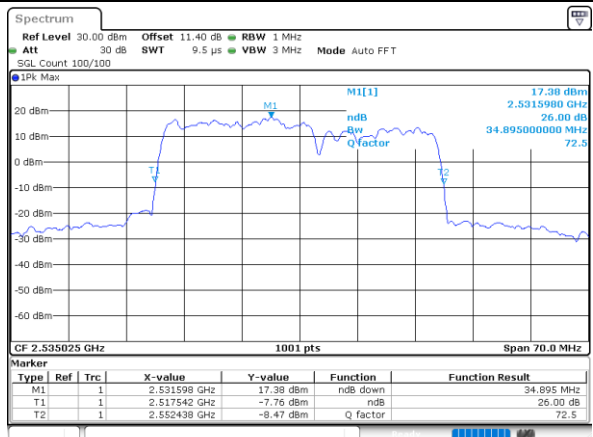
Date: 25_AUG.2022 02:44:12

Middle Channel / 20MHz+10MHz



Date: 25_AUG.2022 01:07:19

Middle Channel / 20MHz+15MHz



Date: 25_AUG.2022 03:34:57

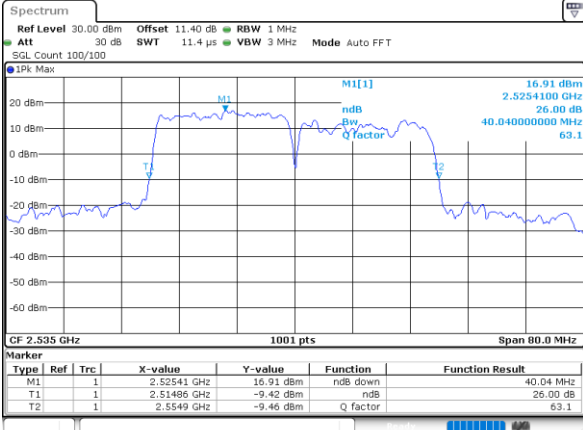


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



Date: 25_AUG_2022 04:21:24