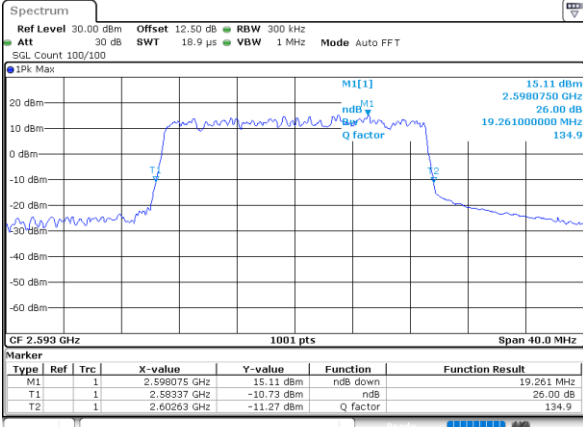




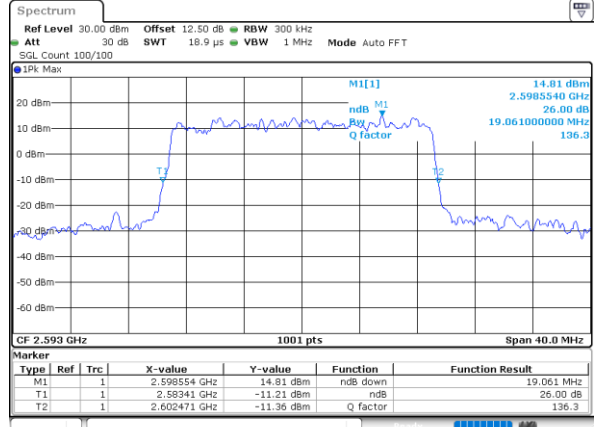
LTE Band 41

Middle Channel / 20MHz / QPSK



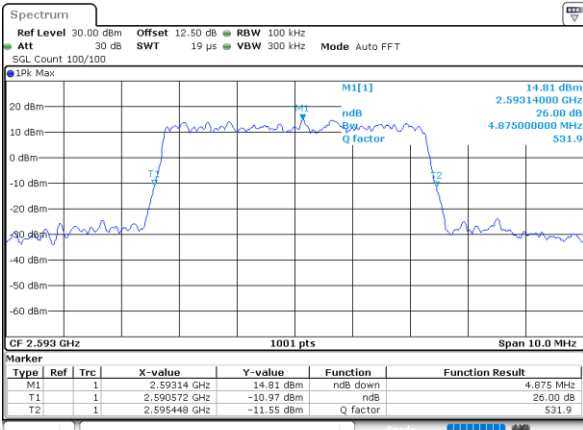
Date: 4.OCT.2022 10:29:25

Middle Channel / 20MHz / 16QAM



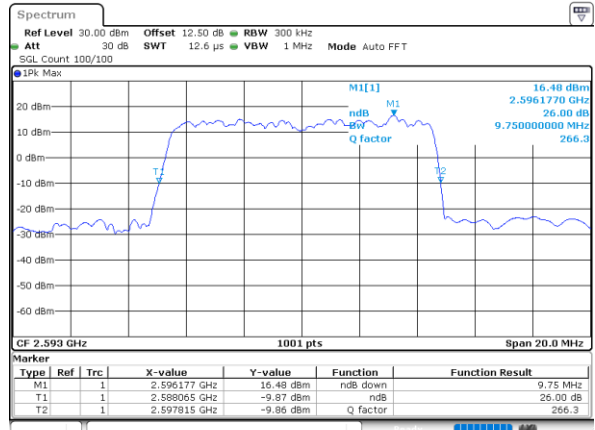
Date: 4.OCT.2022 10:29:54

Middle Channel / 5MHz / 64QAM



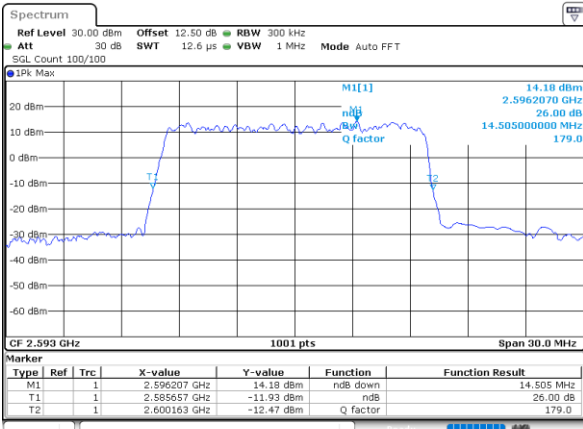
Date: 4.OCT.2022 10:33:37

Middle Channel / 10MHz / 64QAM



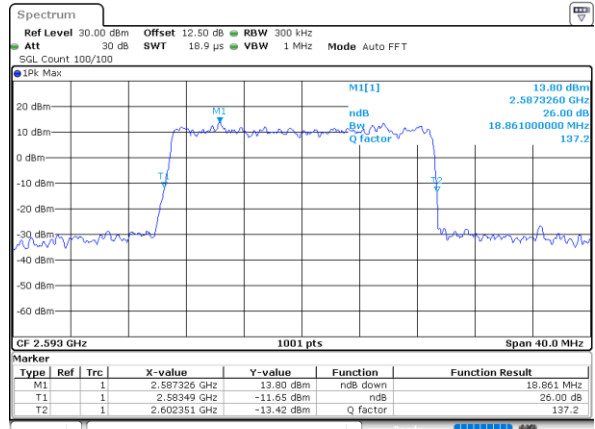
Date: 4.OCT.2022 10:33:30

Middle Channel / 15MHz / 64QAM



Date: 4.OCT.2022 10:33:19

Middle Channel / 20MHz / 64QAM

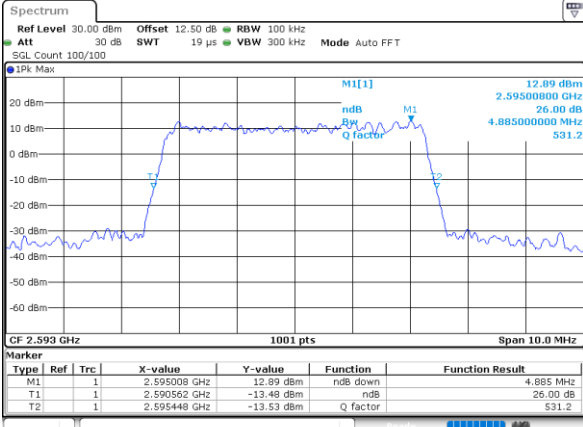


Date: 4.OCT.2022 10:37:32



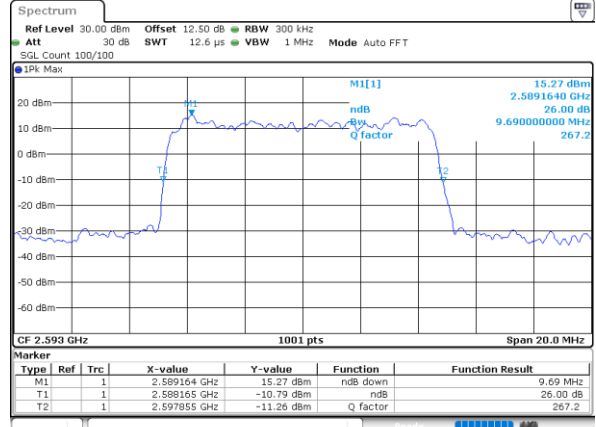
LTE Band 41

Middle Channel / 5MHz / 256QAM



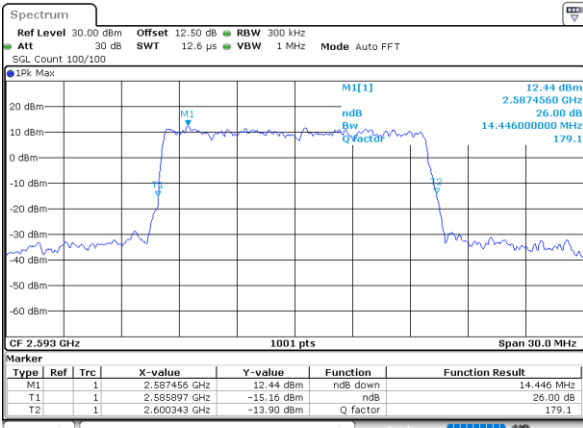
Date: 4.OCT.2022 10:31:58

Middle Channel / 10MHz / 256QAM



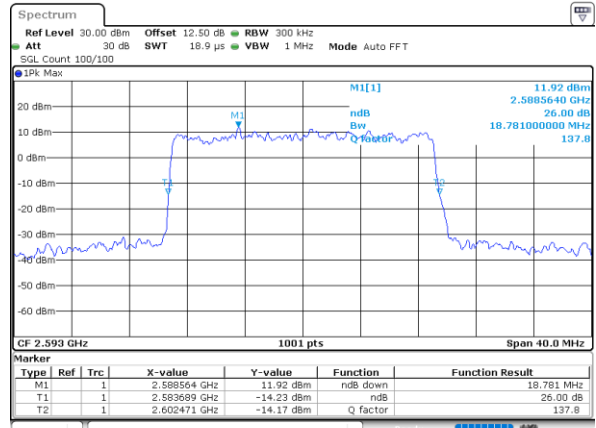
Date: 4.OCT.2022 10:33:59

Middle Channel / 15MHz / 256QAM



Date: 4.OCT.2022 10:36:00

Middle Channel / 20MHz / 256QAM



Date: 4.OCT.2022 10:38:01



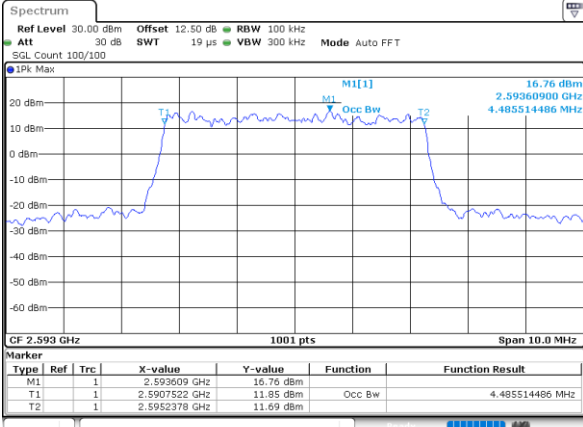
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	4.51	9.07	9.03	13.43	13.46	17.86	17.82
Mode	LTE Band 41 : 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	-	-	-	-	4.52	4.49	9.05	9.01	13.34	13.43	17.82	17.78



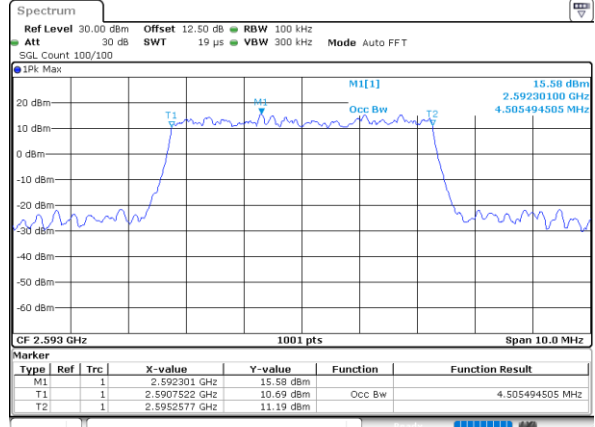
LTE Band 41

Middle Channel / 5MHz / QPSK



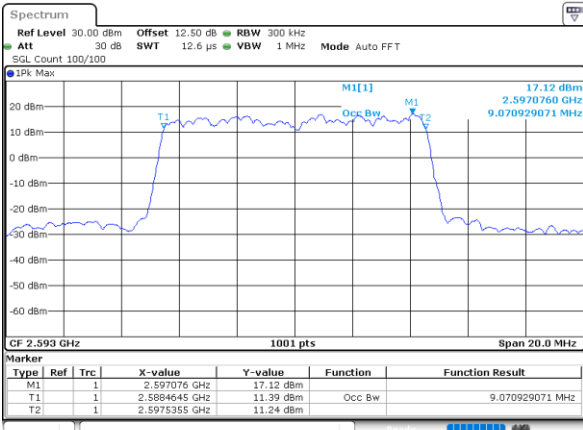
Date: 4.OCT.2022 10:22:12

Middle Channel / 5MHz / 16QAM



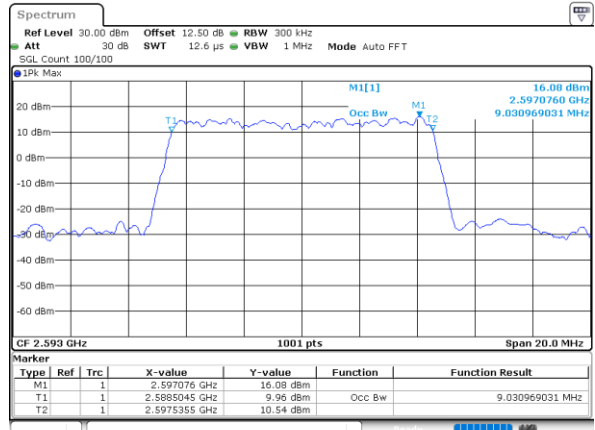
Date: 4.OCT.2022 10:22:50

Middle Channel / 10MHz / QPSK



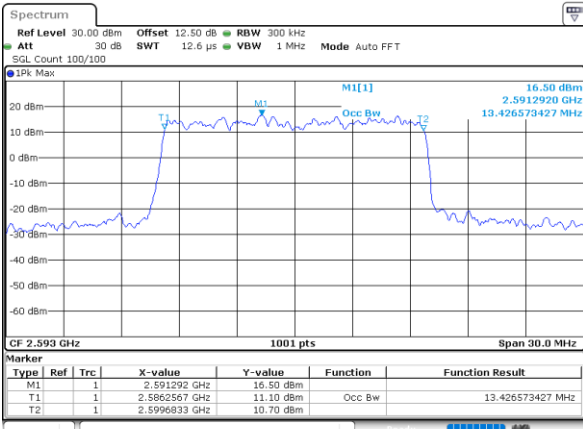
Date: 4.OCT.2022 10:24:22

Middle Channel / 10MHz / 16QAM



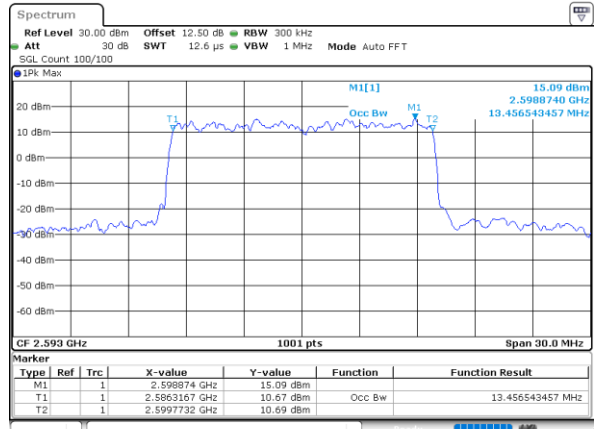
Date: 4.OCT.2022 10:24:54

Middle Channel / 15MHz / QPSK



Date: 4.OCT.2022 10:26:26

Middle Channel / 15MHz / 16QAM

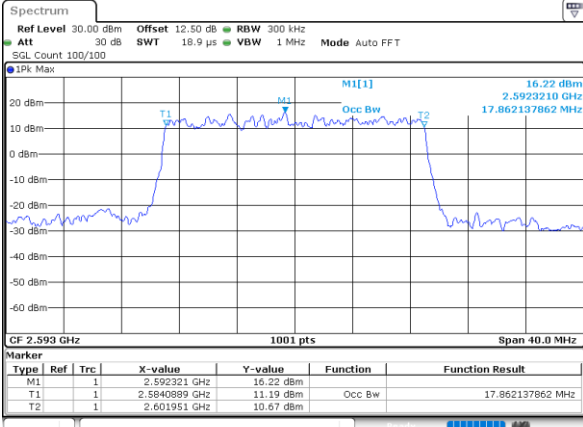


Date: 4.OCT.2022 10:26:55



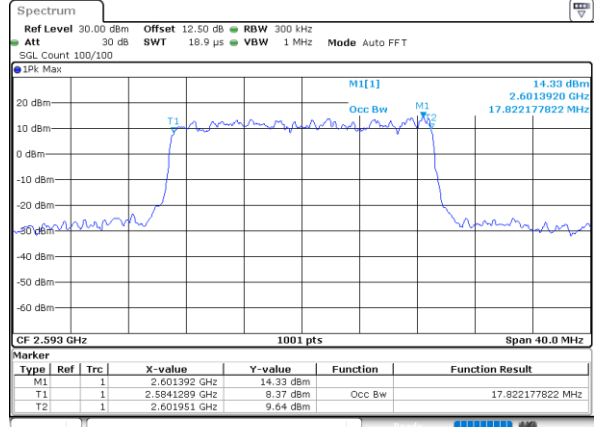
LTE Band 41

Middle Channel / 20MHz / QPSK



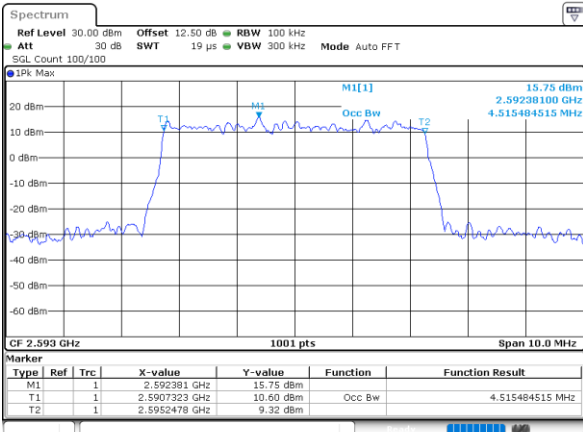
Date: 4.OCT.2022 10:28:27

Middle Channel / 20MHz / 16QAM



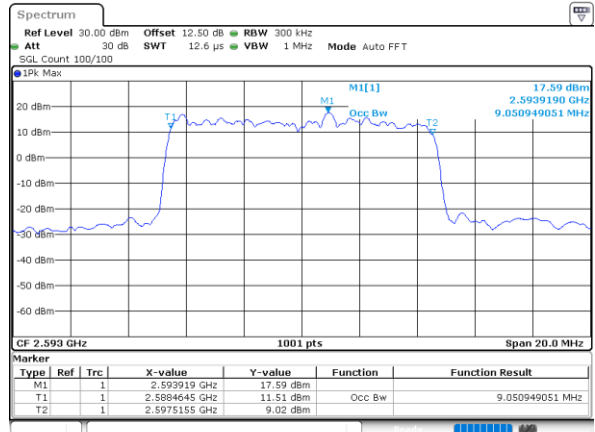
Date: 4.OCT.2022 10:28:56

Middle Channel / 5MHz / 64QAM



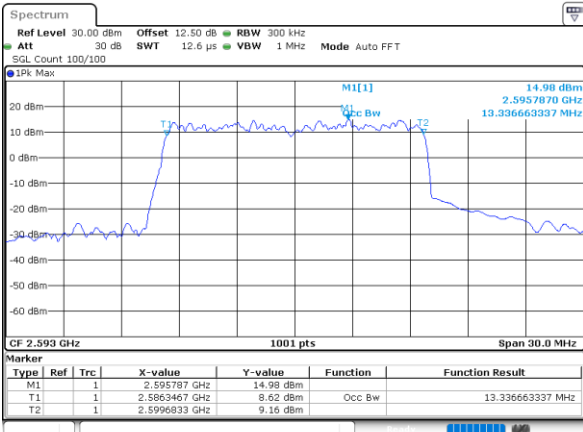
Date: 4.OCT.2022 10:30:28

Middle Channel / 10MHz / 64QAM



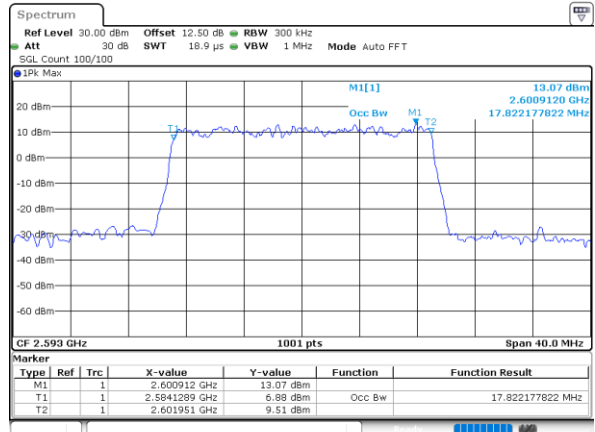
Date: 4.OCT.2022 10:32:33

Middle Channel / 15MHz / 64QAM



Date: 4.OCT.2022 10:34:33

Middle Channel / 20MHz / 64QAM

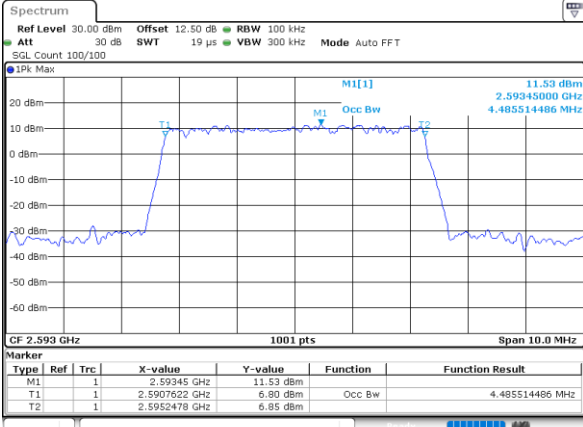


Date: 4.OCT.2022 10:36:34



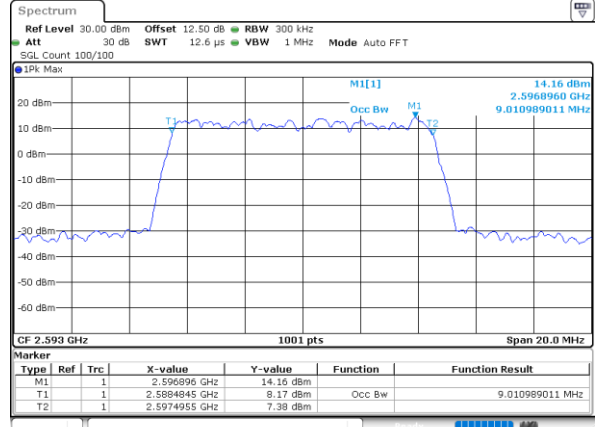
LTE Band 41

Middle Channel / 5MHz / 256QAM



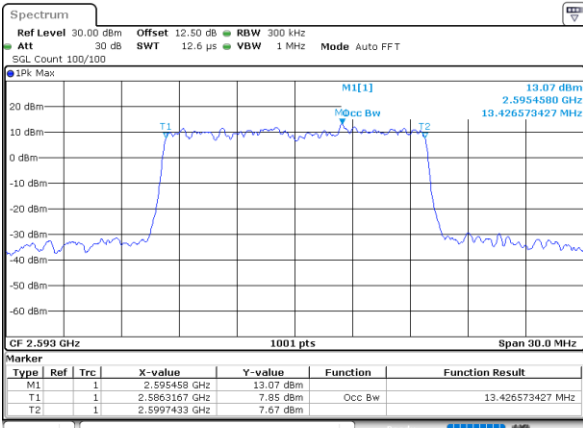
Date: 4.OCT.2022 10:30:57

Middle Channel / 10MHz / 256QAM



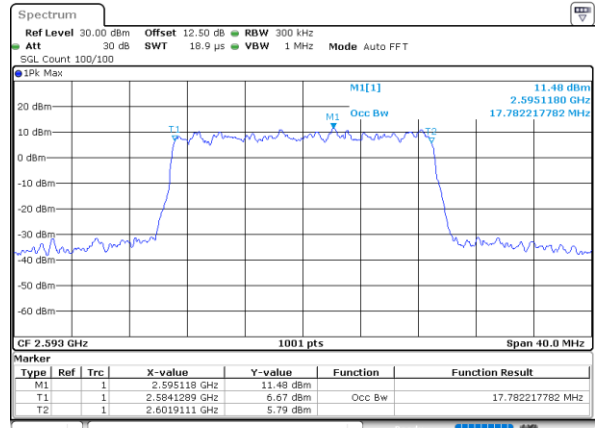
Date: 4.OCT.2022 10:33:02

Middle Channel / 15MHz / 256QAM



Date: 4.OCT.2022 10:35:02

Middle Channel / 20MHz / 256QAM



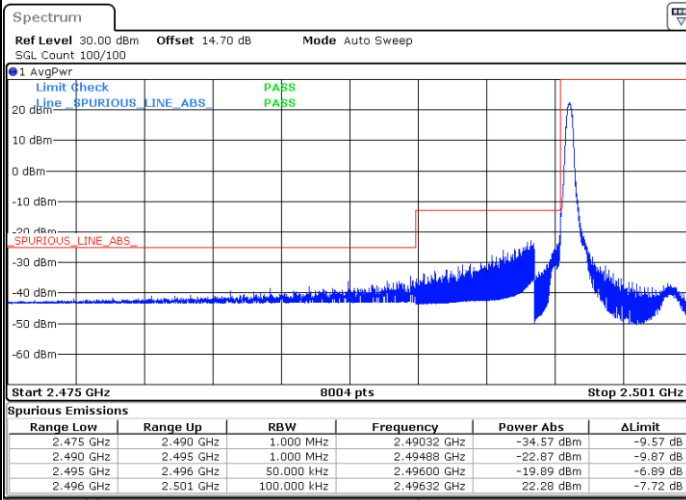
Date: 4.OCT.2022 10:37:03



# Conducted Band Edge

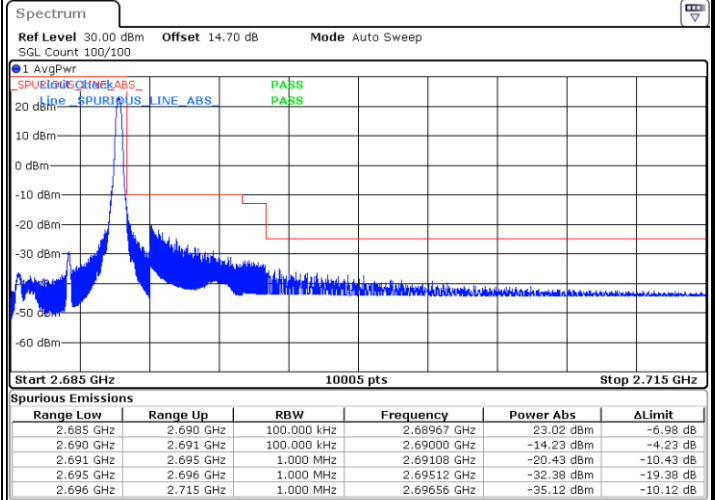
## LTE Band 41 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



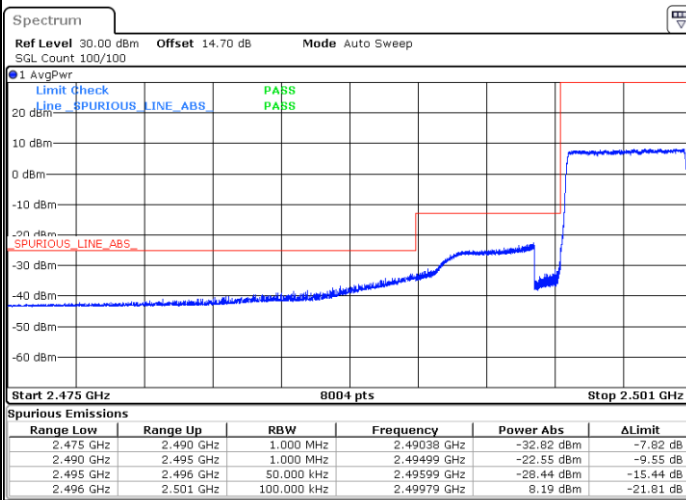
Date: 4.OCT.2022 10:41:09

### Highest Band Edge / 1 RB



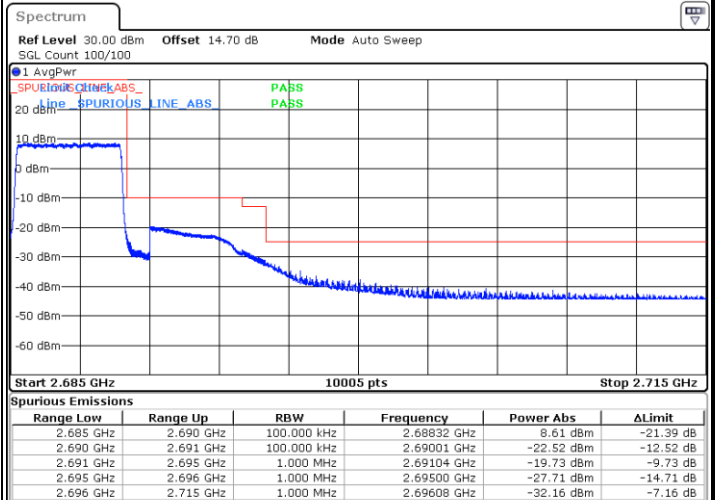
Date: 4.OCT.2022 10:45:04

### Lowest Band Edge / Full RB



Date: 4.OCT.2022 10:43:06

### Highest Band Edge / Full RB

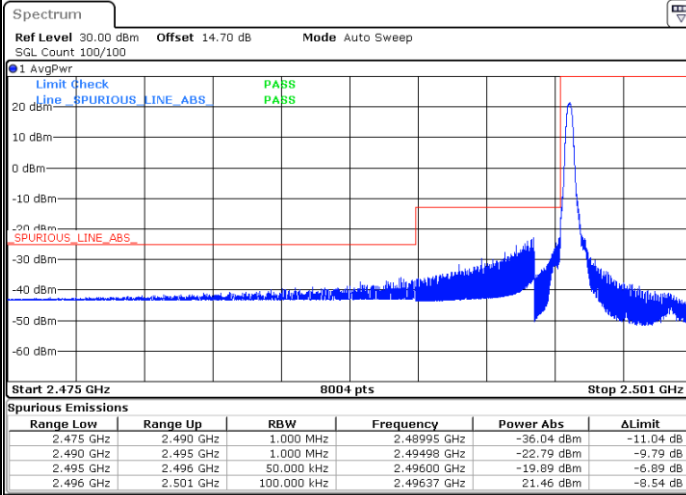


Date: 4.OCT.2022 10:47:02



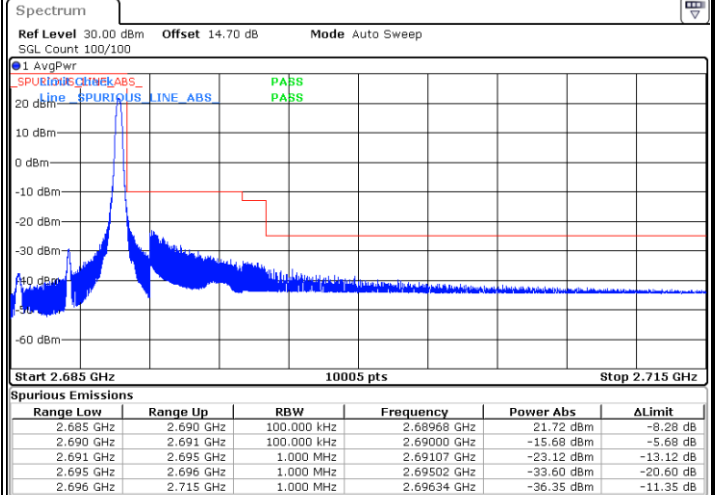
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



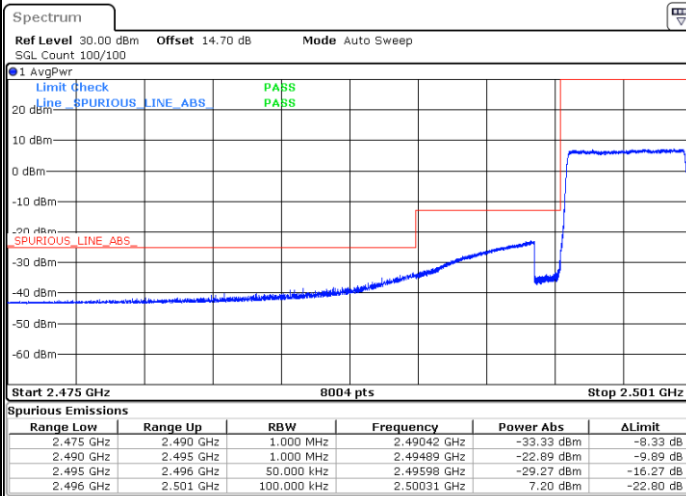
Date: 4.OCT.2022 10:42:07

Highest Band Edge / 1 RB



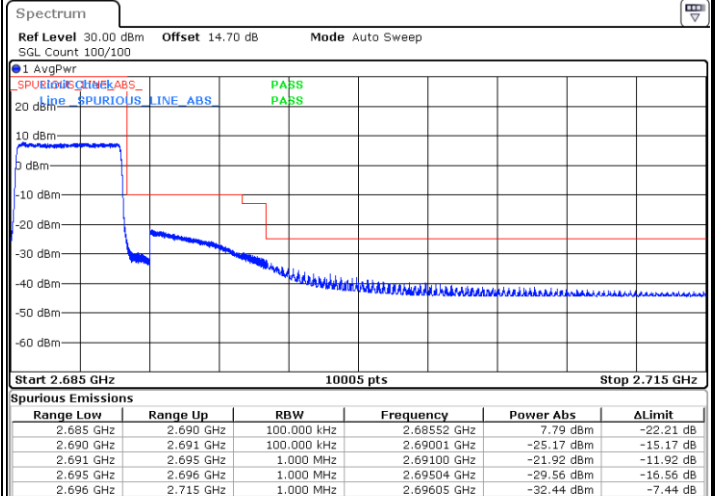
Date: 4.OCT.2022 10:46:03

Lowest Band Edge / Full RB



Date: 4.OCT.2022 10:44:05

Highest Band Edge / Full RB



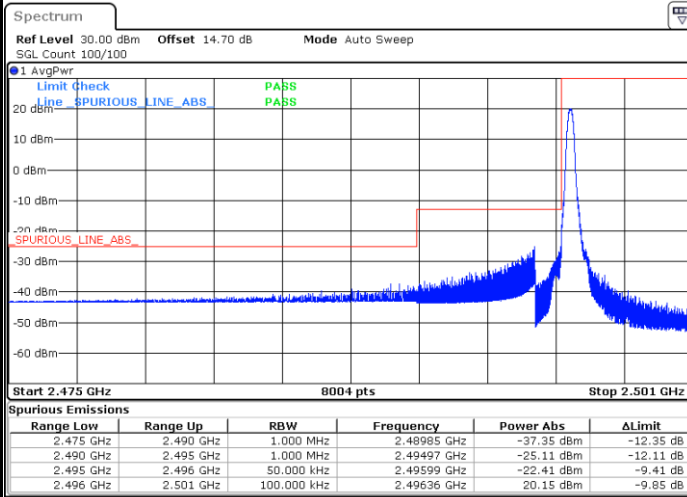
Date: 4.OCT.2022 10:48:01





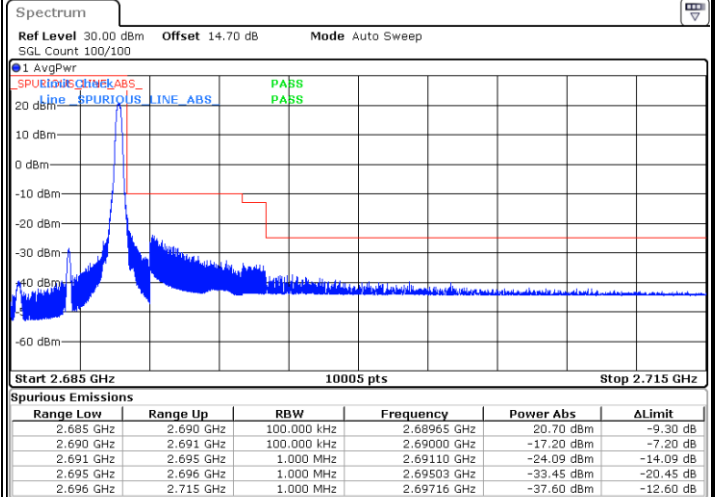
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



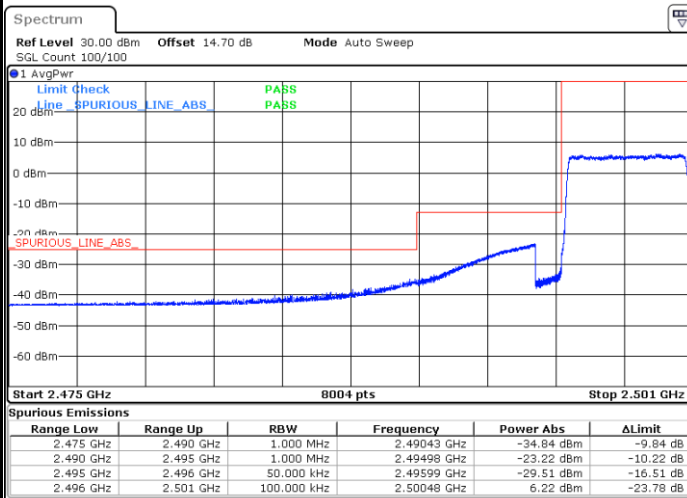
Date: 4.OCT.2022 10:48:59

Highest Band Edge / 1 RB



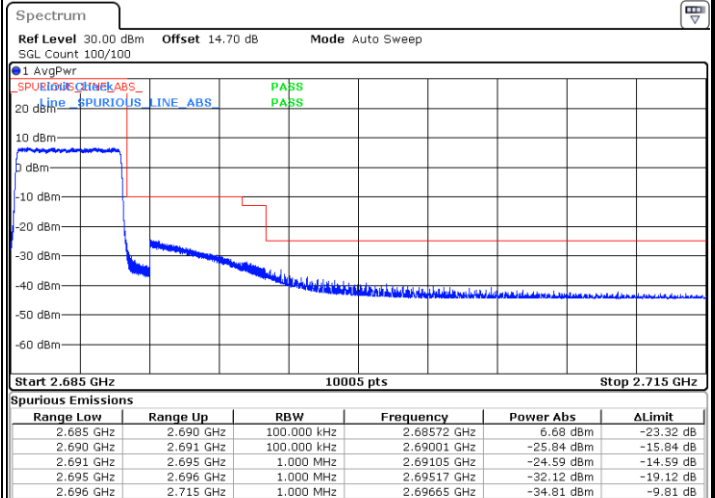
Date: 4.OCT.2022 10:53:54

Lowest Band Edge / Full RB



Date: 4.OCT.2022 10:50:59

Highest Band Edge / Full RB

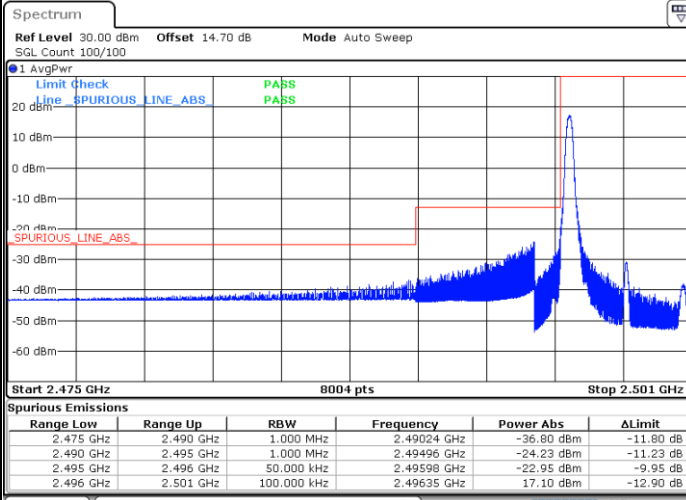


Date: 4.OCT.2022 10:55:55



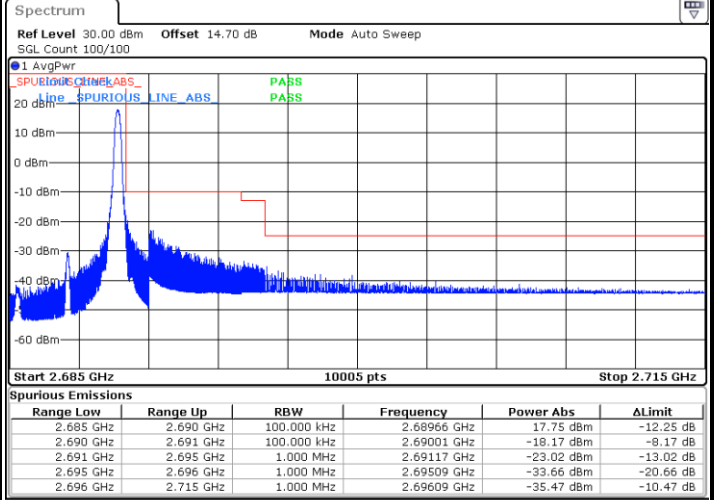
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



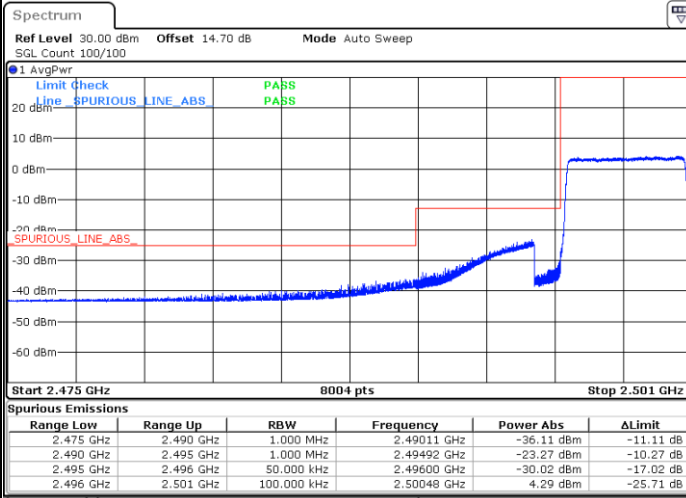
Date: 4.OCT.2022 10:49:58

Highest Band Edge / 1 RB



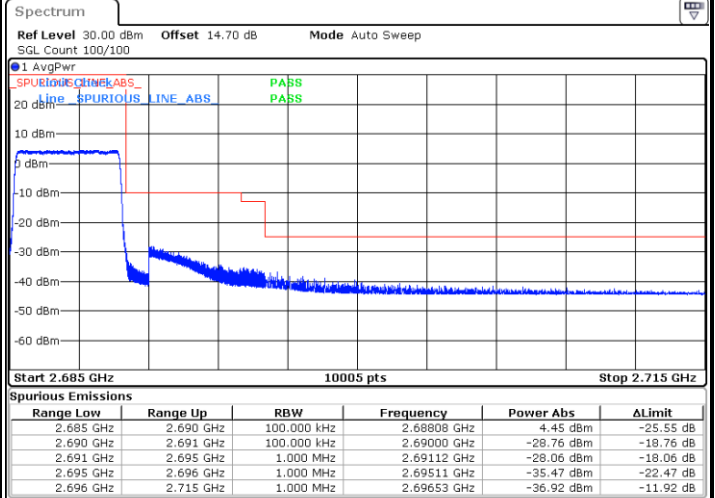
Date: 4.OCT.2022 10:54:53

Lowest Band Edge / Full RB



Date: 4.OCT.2022 10:51:58

Highest Band Edge / Full RB

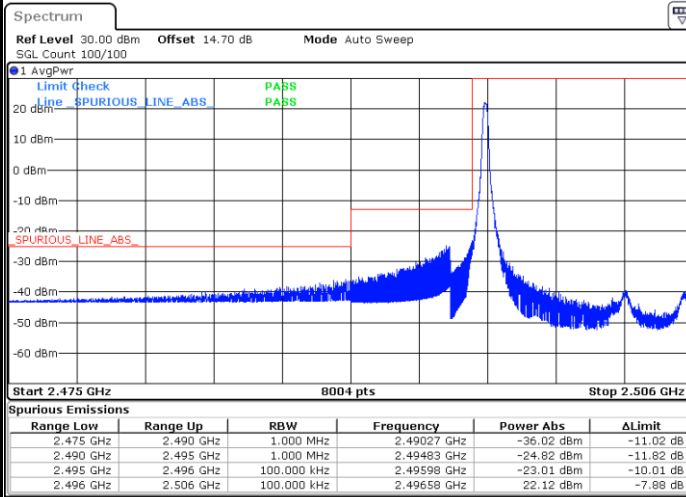


Date: 4.OCT.2022 10:56:57



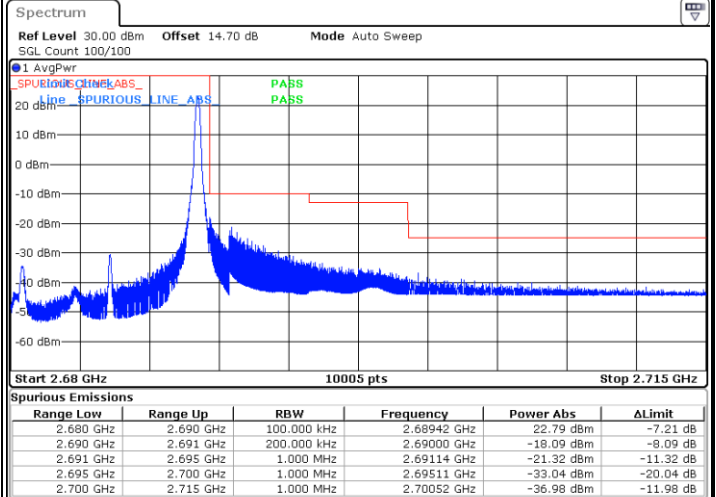
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



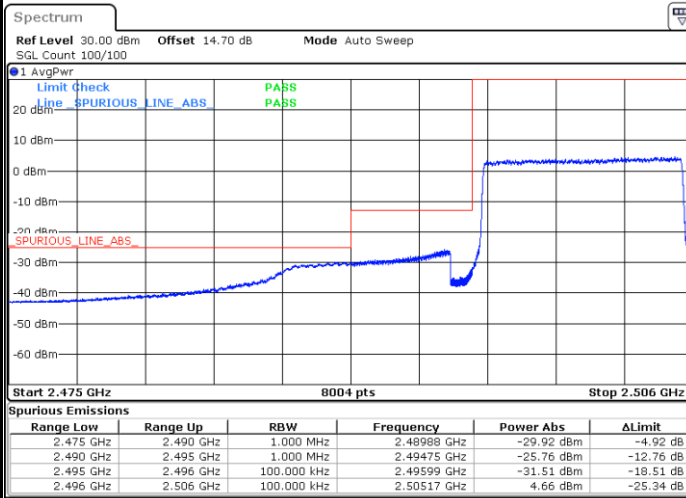
Date: 4.OCT.2022 10:58:01

Highest Band Edge / 1 RB



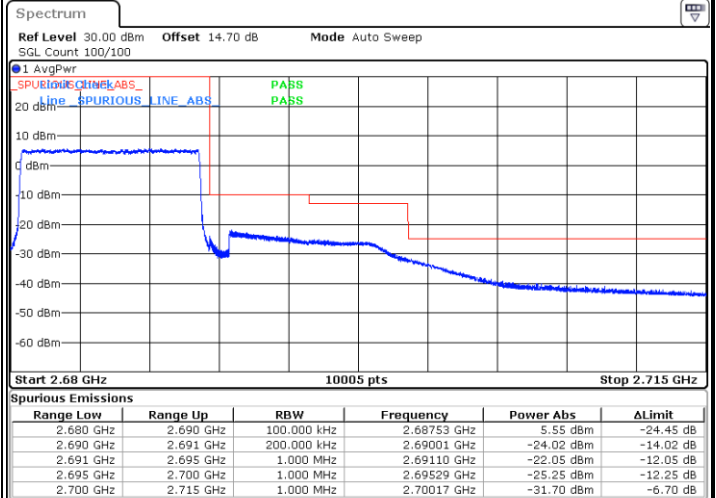
Date: 4.OCT.2022 11:02:00

Lowest Band Edge / Full RB



Date: 4.OCT.2022 10:59:59

Highest Band Edge / Full RB

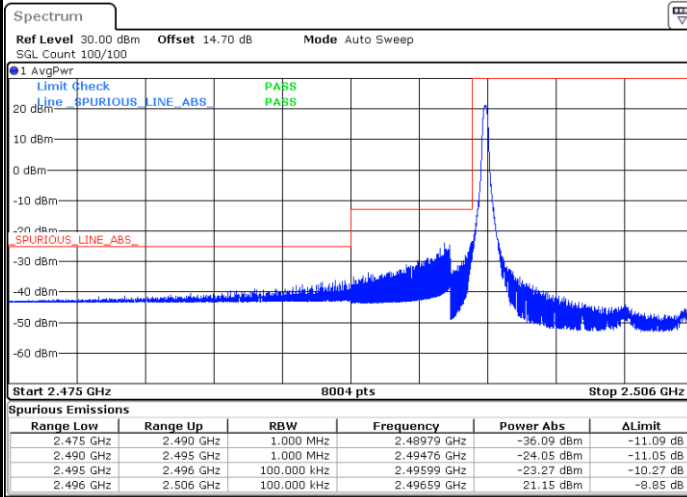


Date: 4.OCT.2022 11:03:59



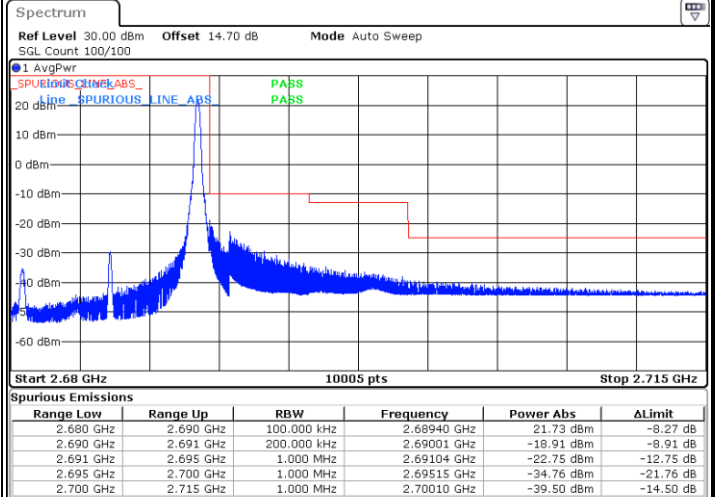
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



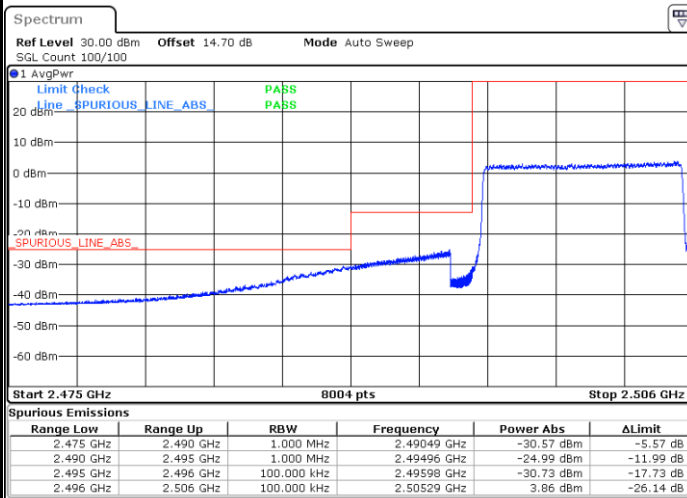
Date: 4.OCT.2022 10:59:00

Highest Band Edge / 1 RB



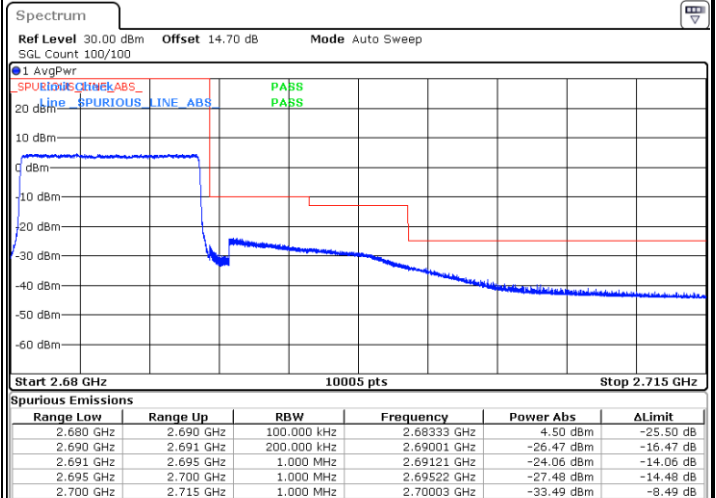
Date: 4.OCT.2022 11:02:59

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:01:01

Highest Band Edge / Full RB

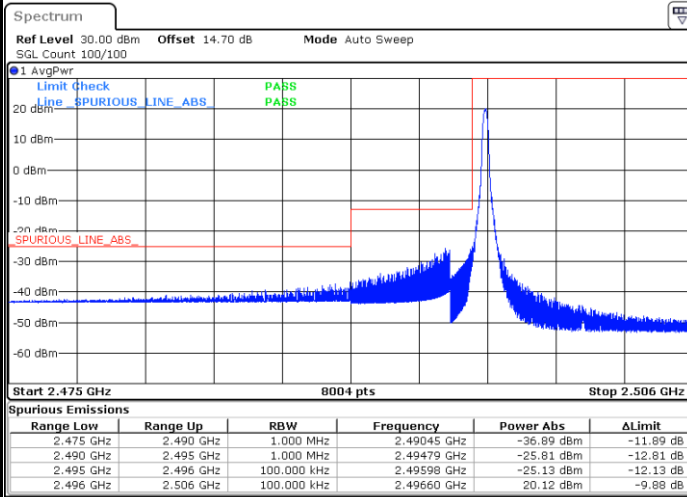


Date: 4.OCT.2022 11:04:58



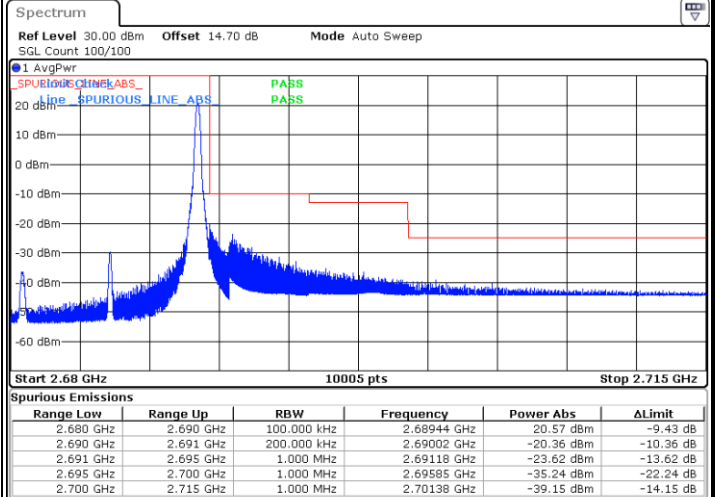
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



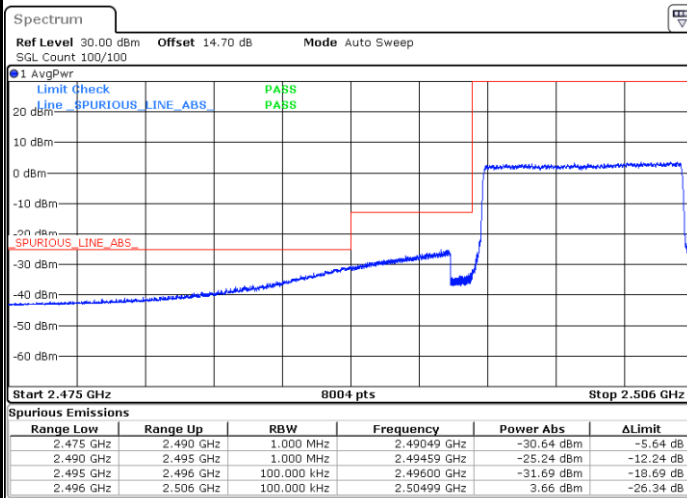
Date: 4.OCT.2022 11:05:56

Highest Band Edge / 1 RB



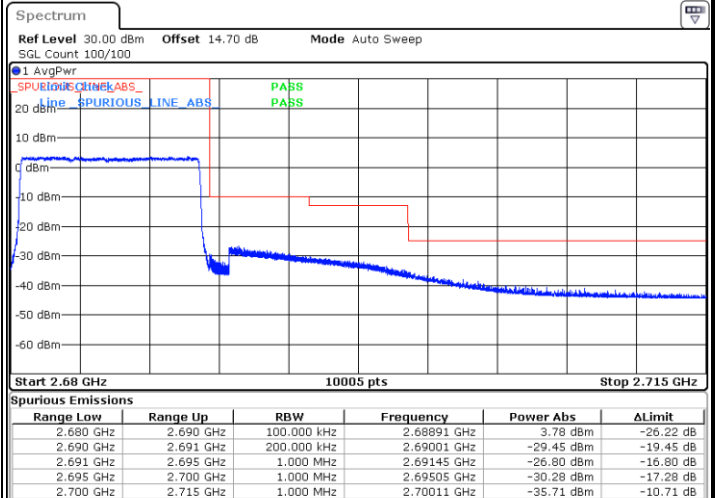
Date: 4.OCT.2022 11:09:56

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:07:56

Highest Band Edge / Full RB

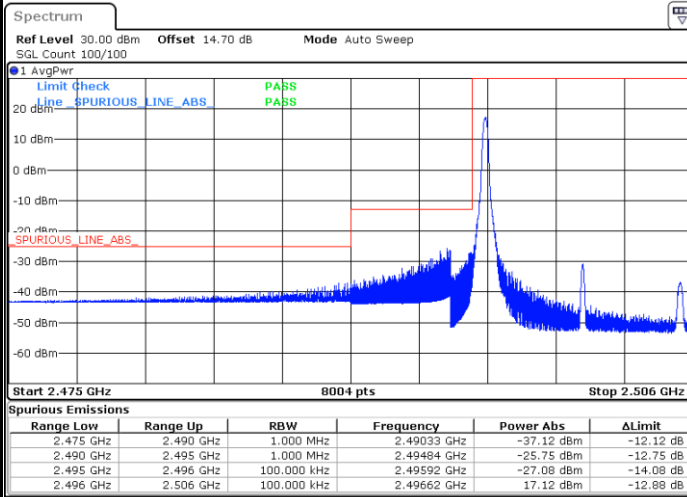


Date: 4.OCT.2022 11:11:58



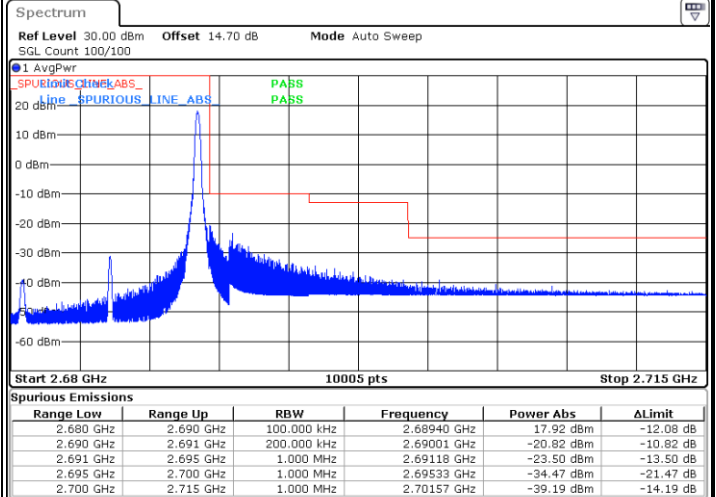
LTE Band 41 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



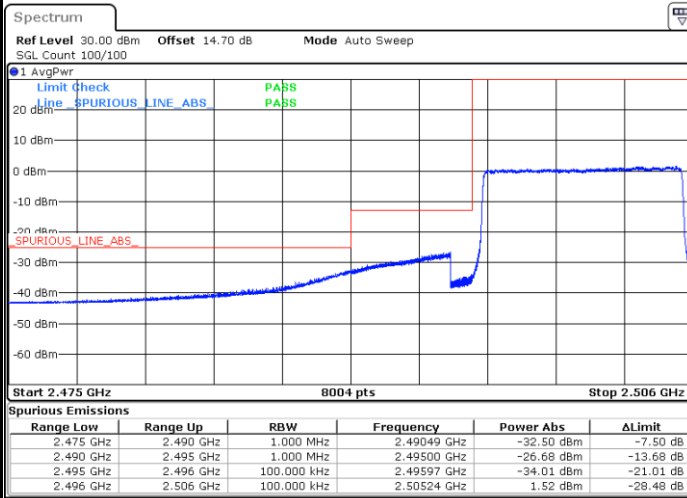
Date: 4.OCT.2022 11:06:54

Highest Band Edge / 1 RB



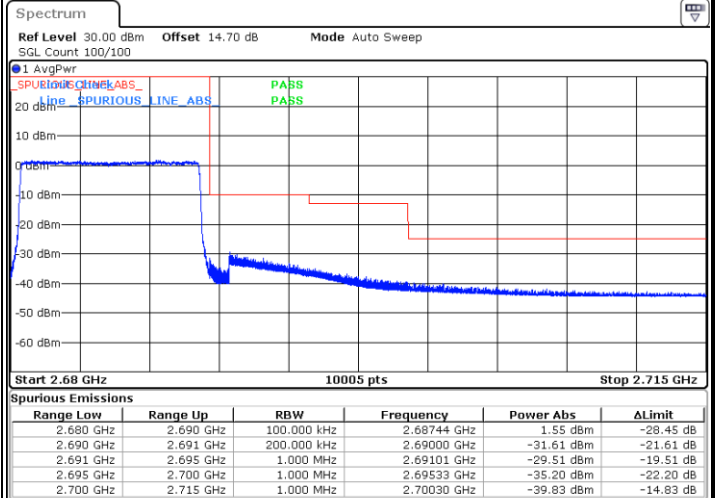
Date: 4.OCT.2022 11:10:56

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:08:55

Highest Band Edge / Full RB

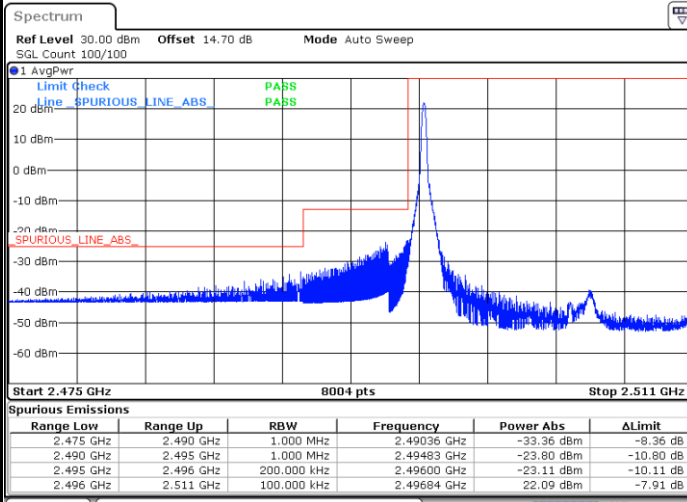


Date: 4.OCT.2022 11:12:57



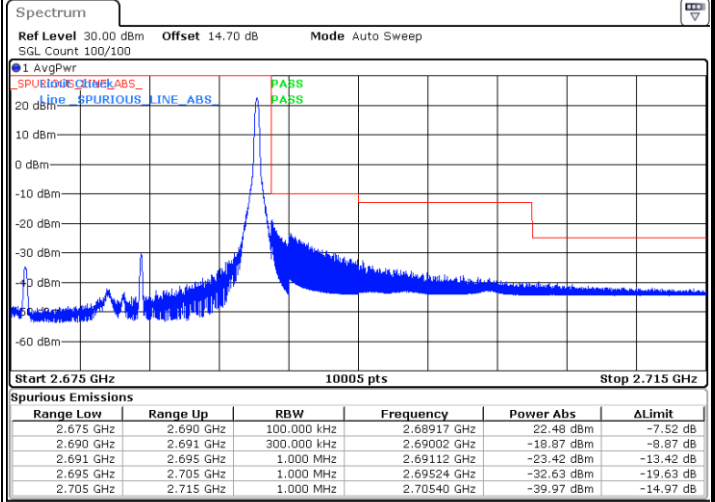
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



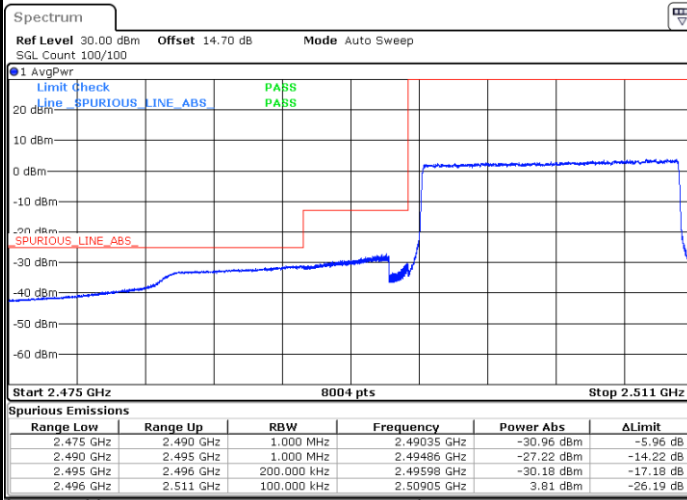
Date: 4.OCT.2022 11:22:06

Highest Band Edge / 1 RB



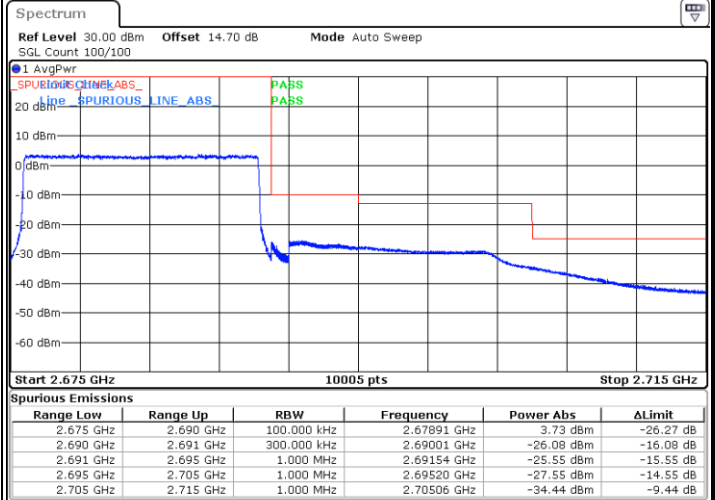
Date: 4.OCT.2022 11:26:01

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:24:03

Highest Band Edge / Full RB

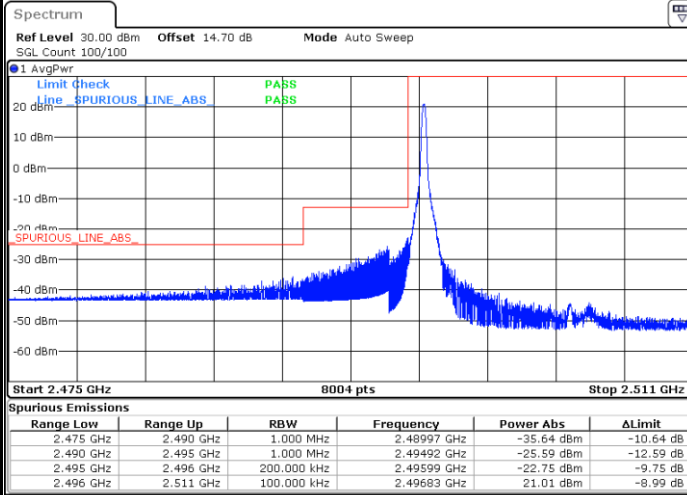


Date: 4.OCT.2022 11:27:58



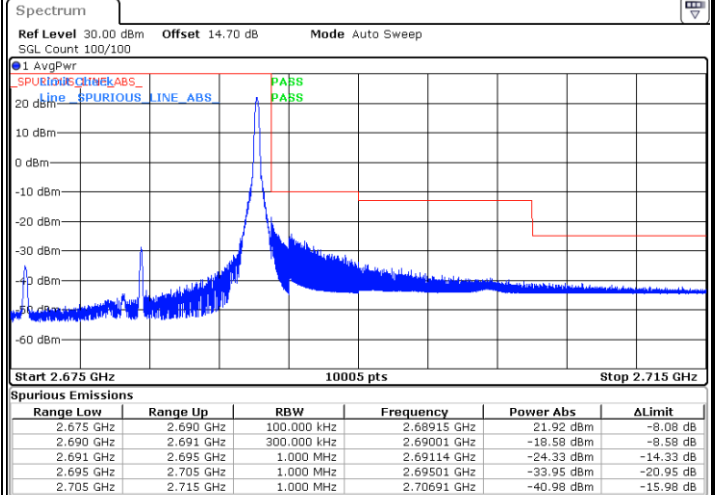
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



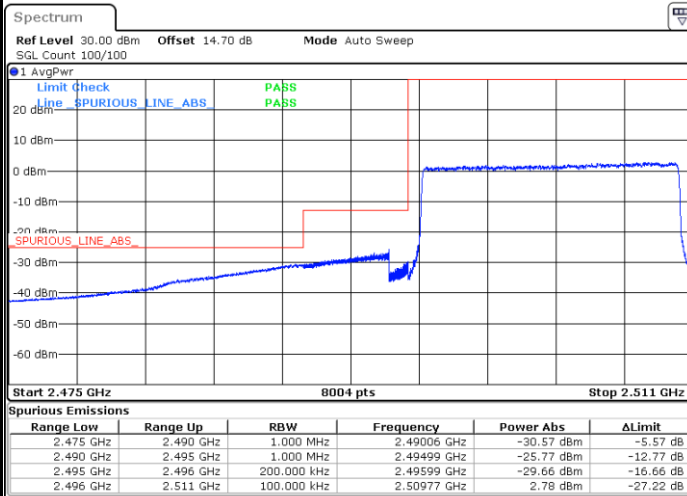
Date: 4.OCT.2022 11:23:05

Highest Band Edge / 1 RB



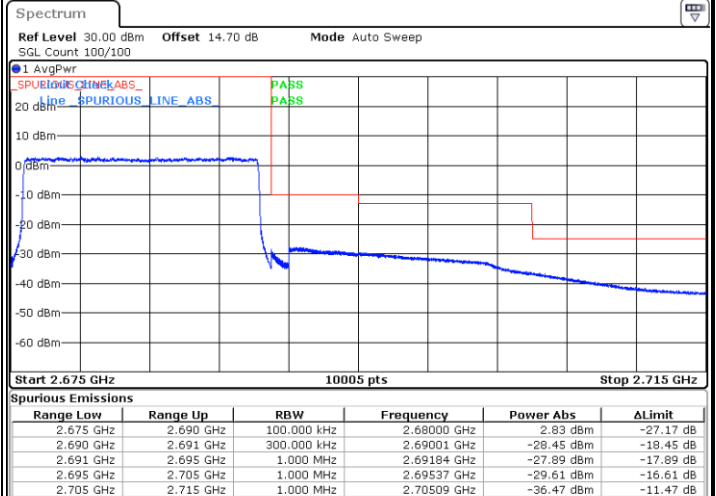
Date: 4.OCT.2022 11:27:00

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:25:02

Highest Band Edge / Full RB



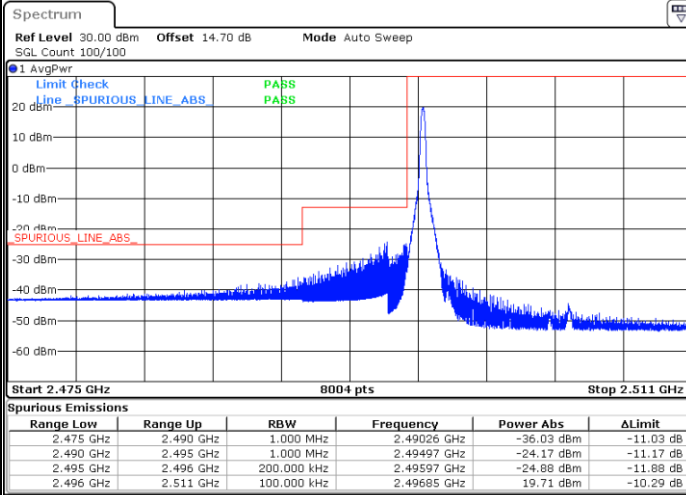
Date: 4.OCT.2022 11:28:57





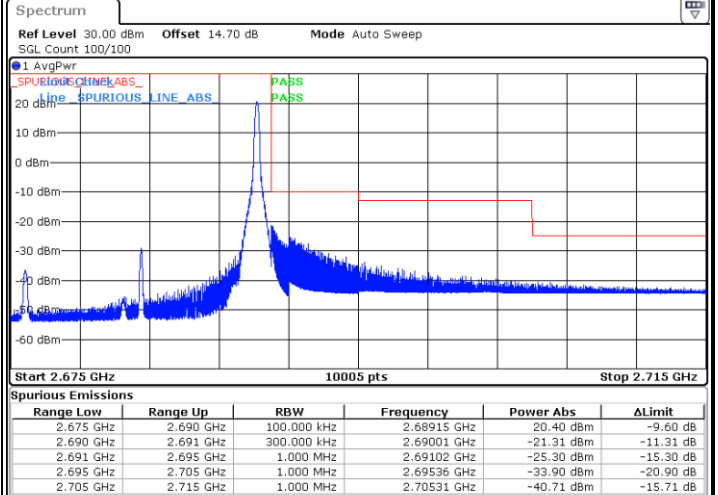
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



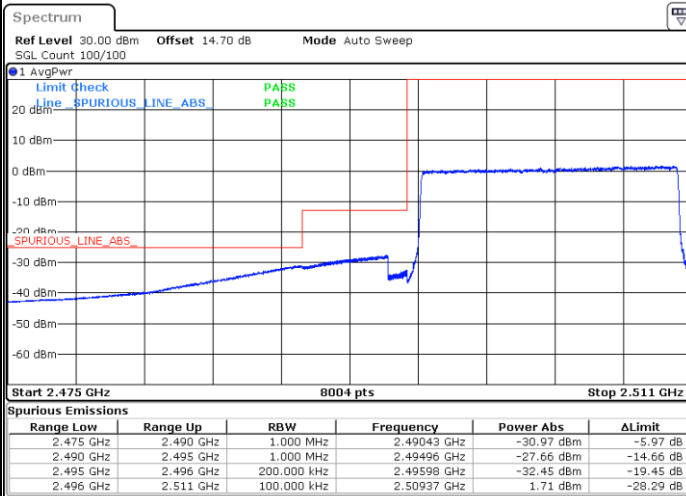
Date: 4.OCT.2022 11:14:00

Highest Band Edge / 1 RB



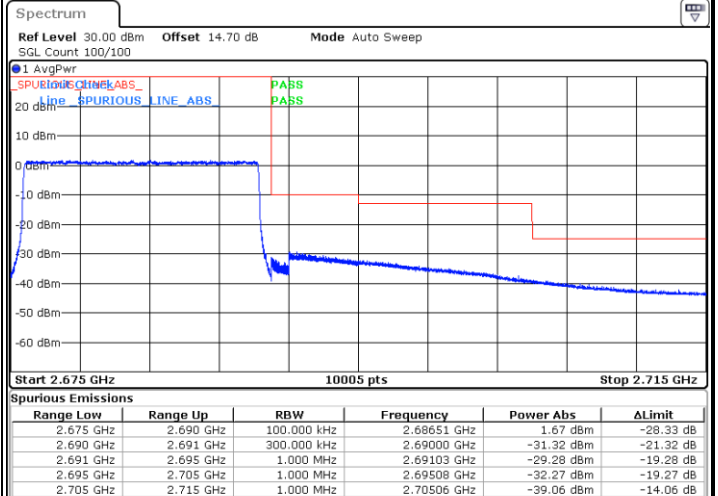
Date: 4.OCT.2022 11:18:04

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:16:00

Highest Band Edge / Full RB

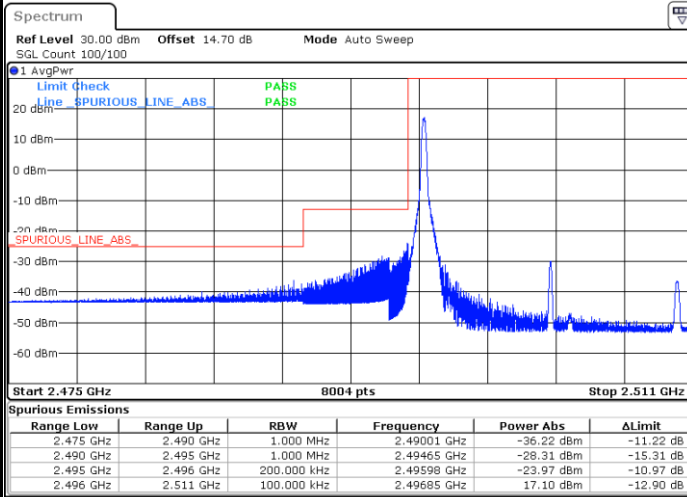


Date: 4.OCT.2022 11:20:05



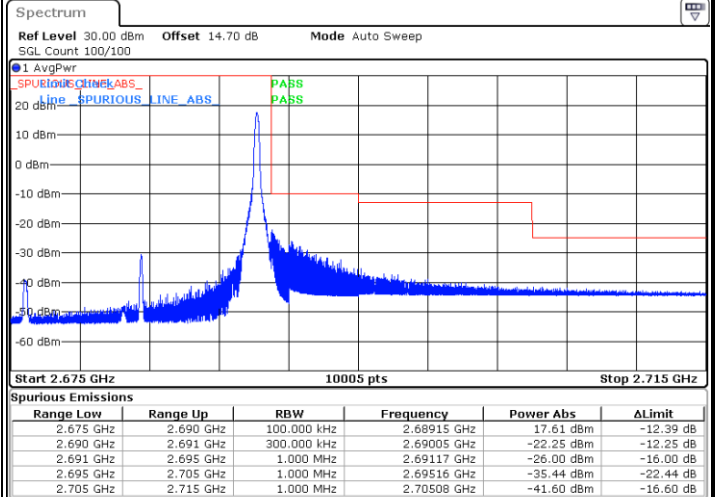
LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



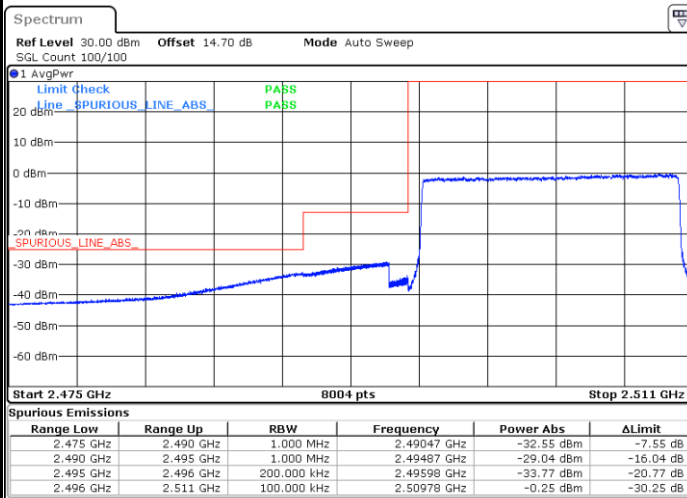
Date: 4.OCT.2022 11:14:58

Highest Band Edge / 1 RB



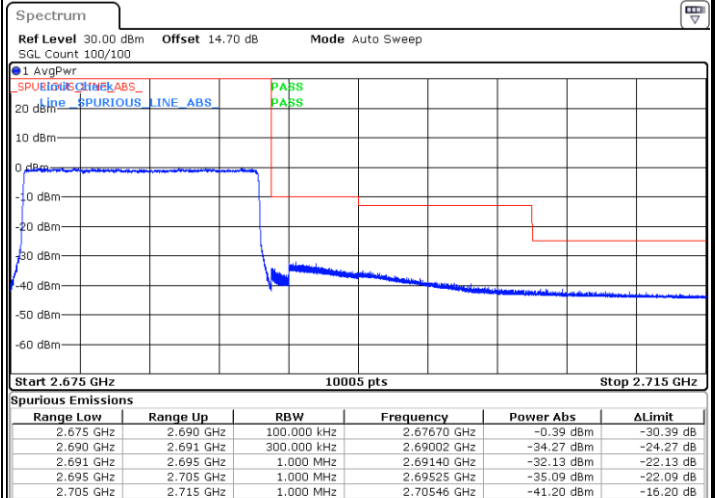
Date: 4.OCT.2022 11:19:03

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:16:58

Highest Band Edge / Full RB

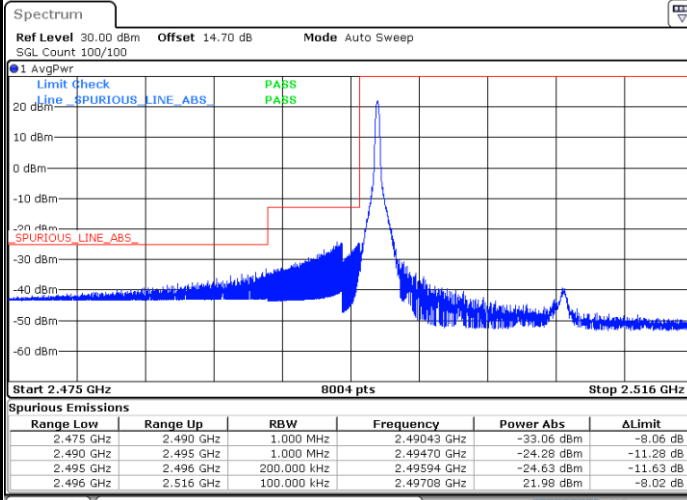


Date: 4.OCT.2022 11:21:05



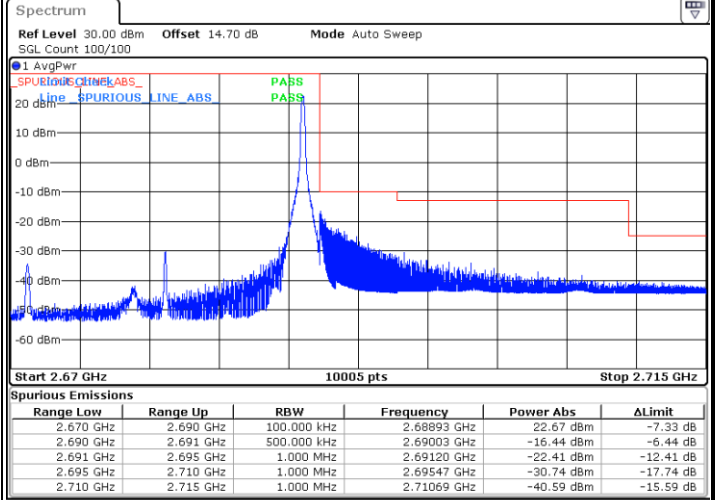
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



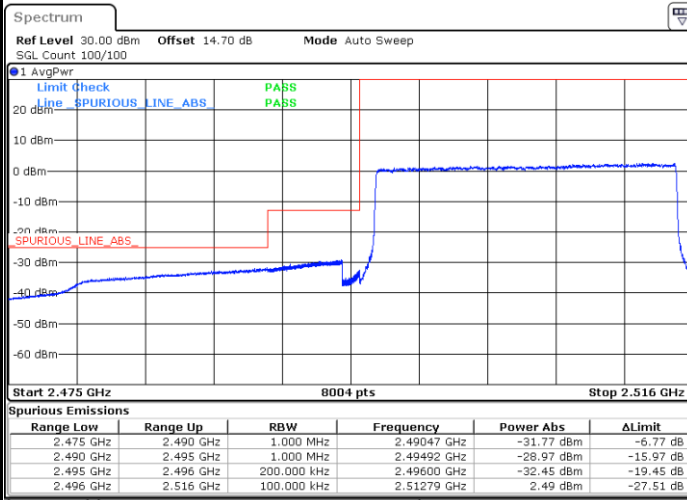
Date: 4.OCT.2022 11:30:01

Highest Band Edge / 1 RB



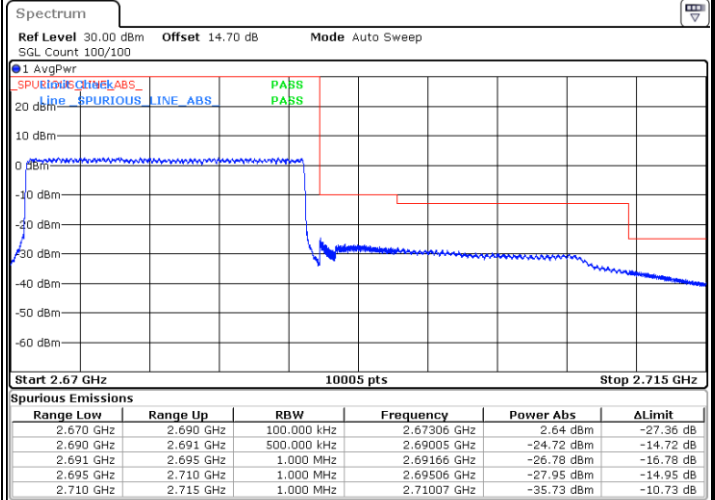
Date: 4.OCT.2022 11:33:56

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:31:58

Highest Band Edge / Full RB

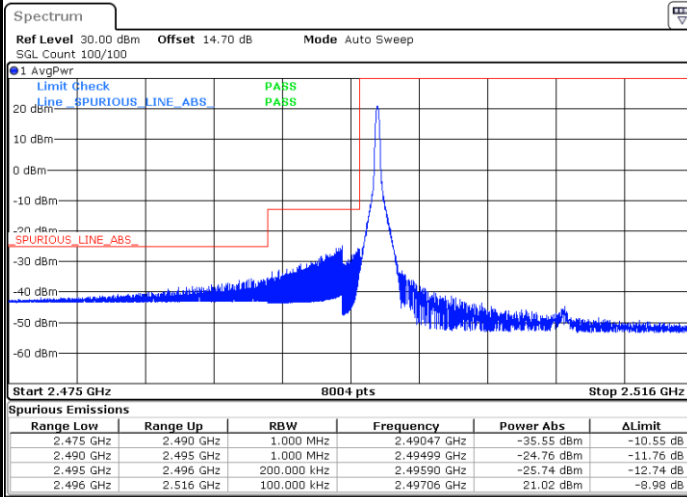


Date: 4.OCT.2022 11:36:53



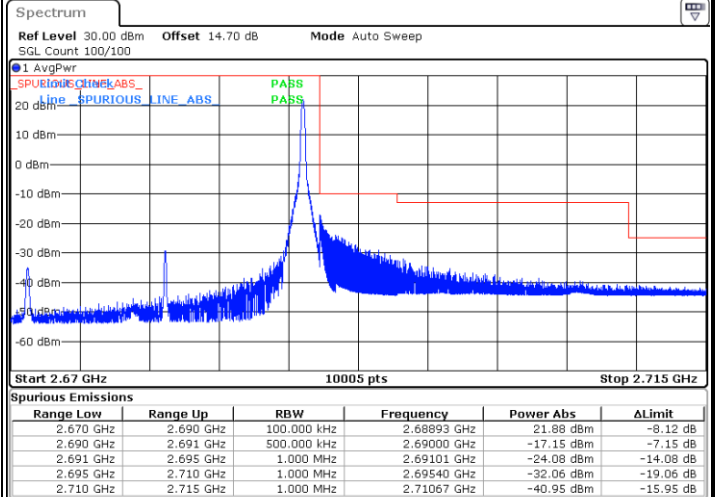
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



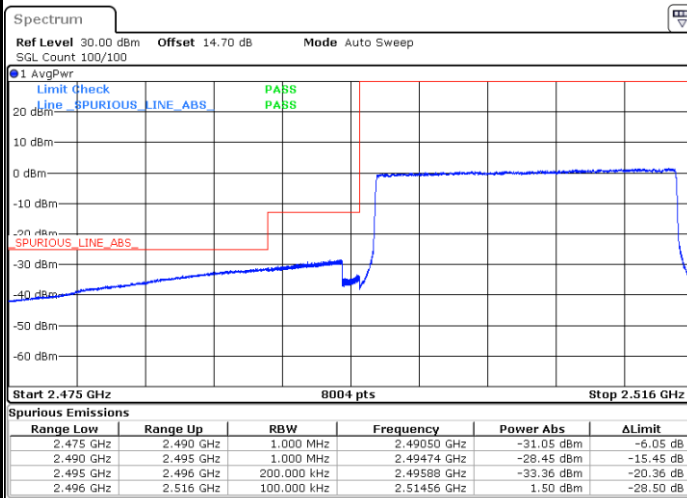
Date: 4.OCT.2022 11:30:59

Highest Band Edge / 1 RB



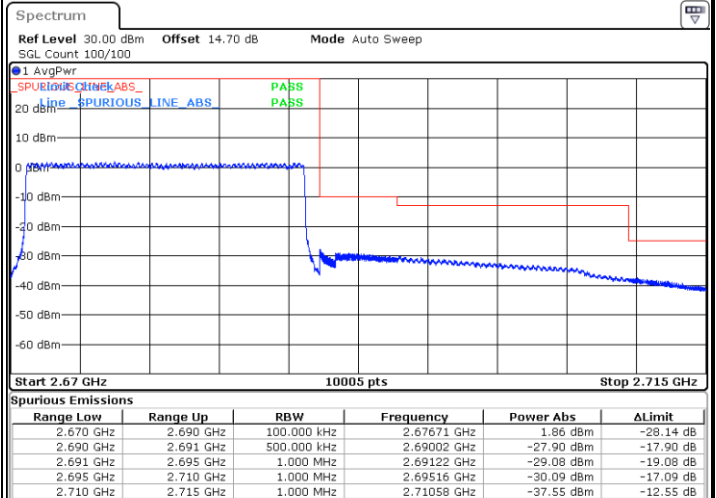
Date: 4.OCT.2022 11:34:55

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:32:56

Highest Band Edge / Full RB

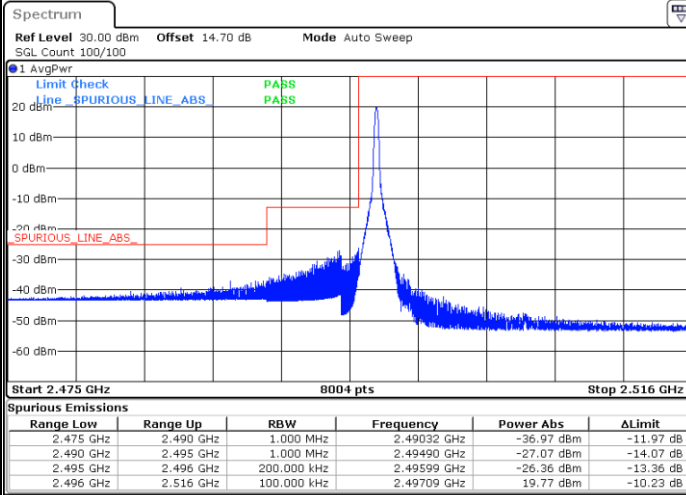


Date: 4.OCT.2022 11:35:54



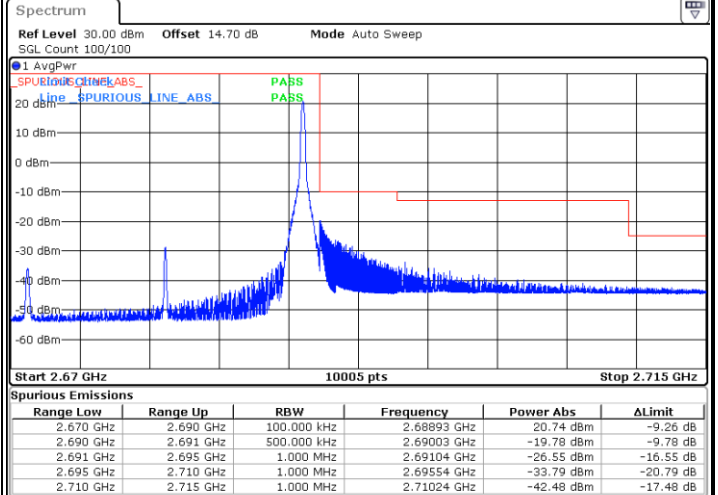
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



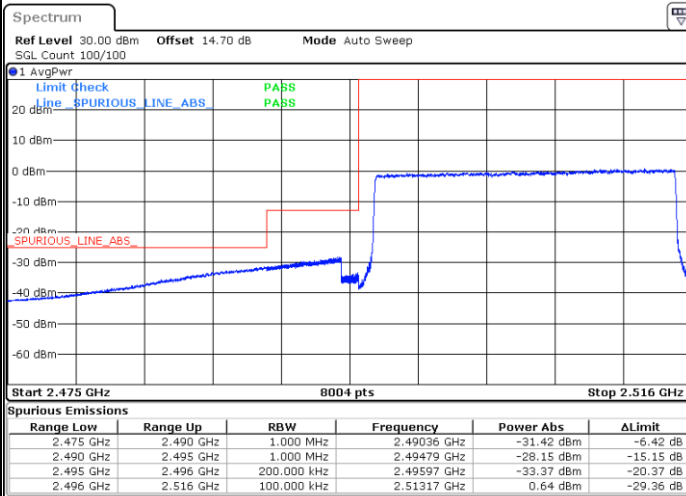
Date: 4.OCT.2022 11:37:52

Highest Band Edge / 1 RB



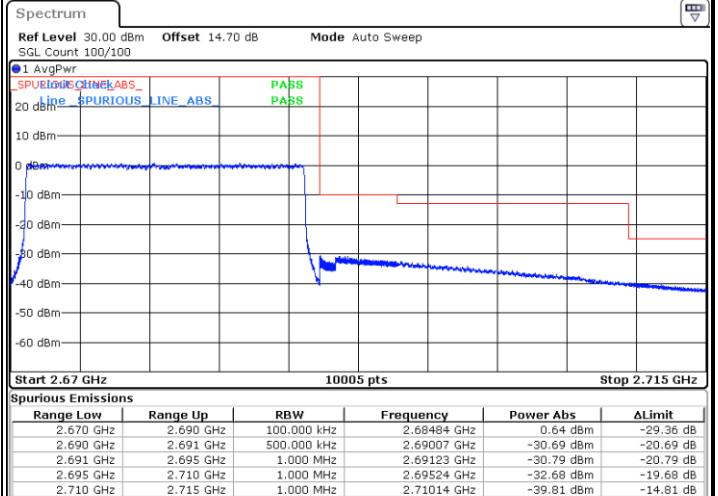
Date: 4.OCT.2022 11:41:56

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:39:55

Highest Band Edge / Full RB

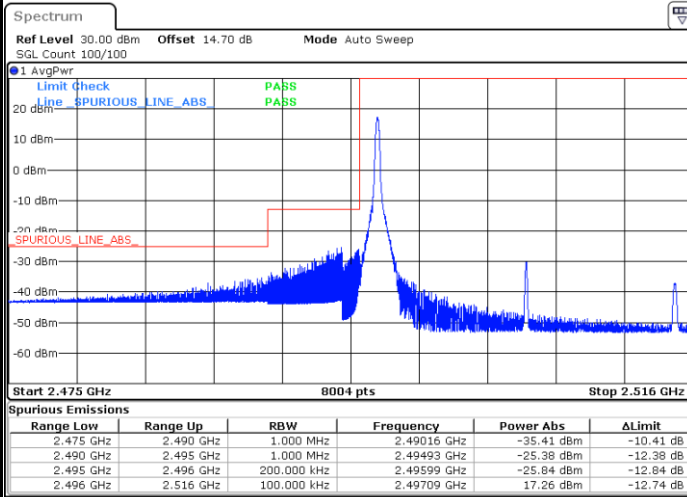


Date: 4.OCT.2022 11:43:57



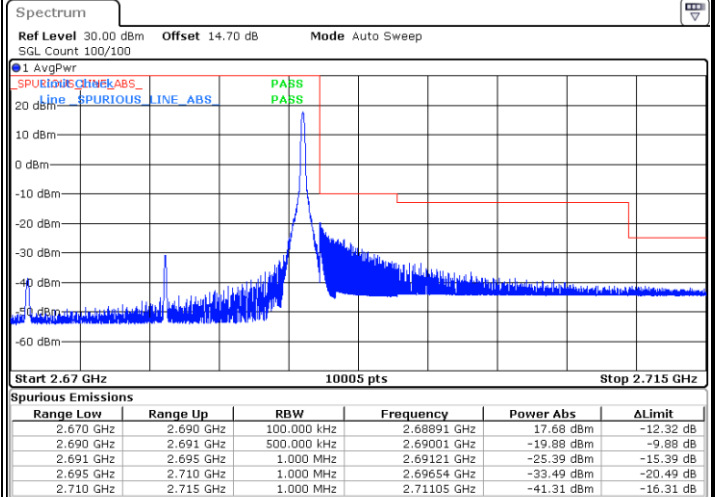
LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



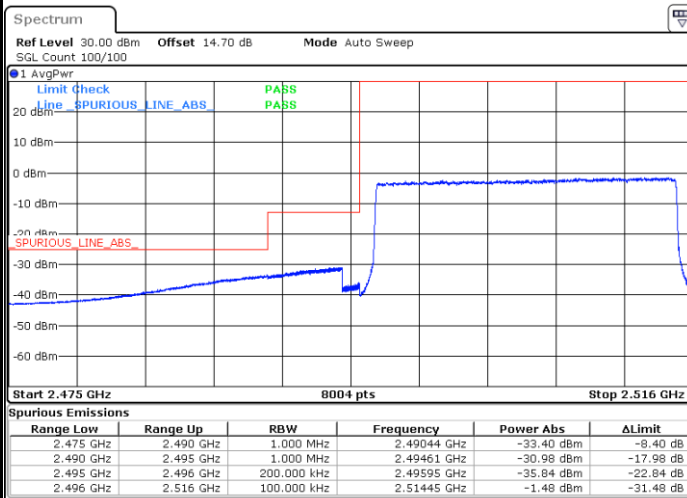
Date: 4.OCT.2022 11:38:54

Highest Band Edge / 1 RB



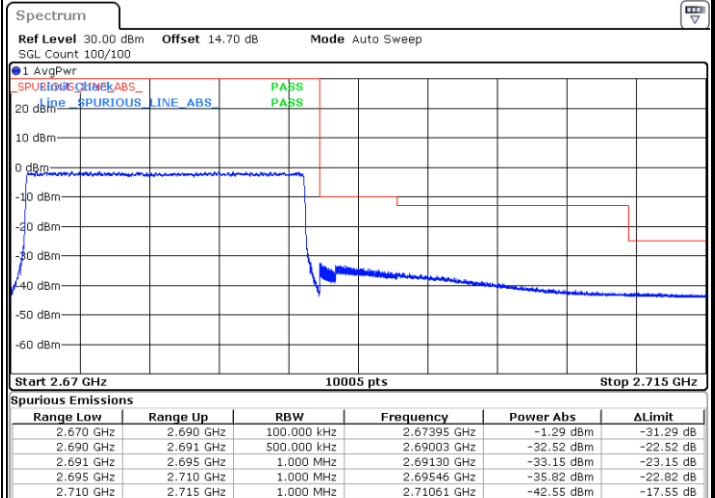
Date: 4.OCT.2022 11:42:55

Lowest Band Edge / Full RB



Date: 4.OCT.2022 11:40:54

Highest Band Edge / Full RB



Date: 4.OCT.2022 11:44:57

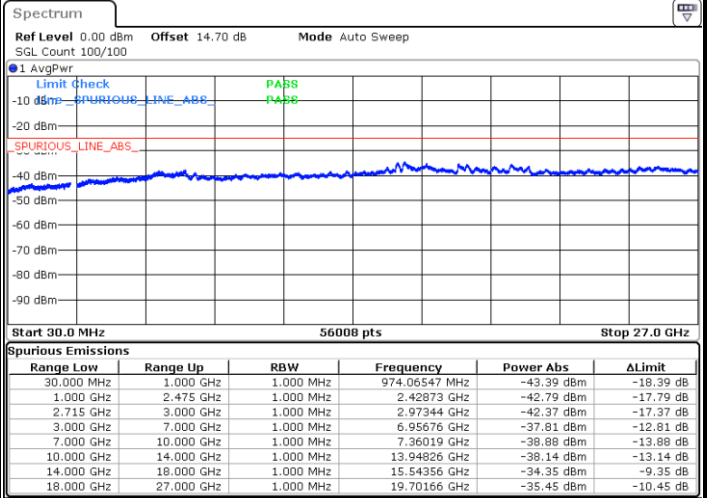
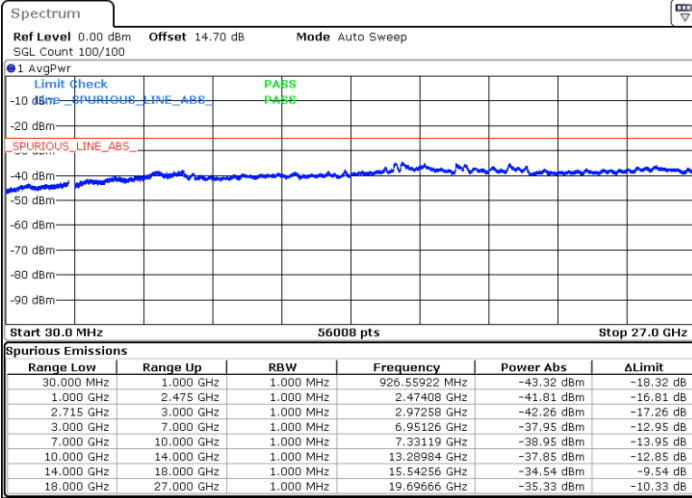


# Conducted Spurious Emission

## LTE Band 41 / 5MHz

### Lowest Channel / QPSK

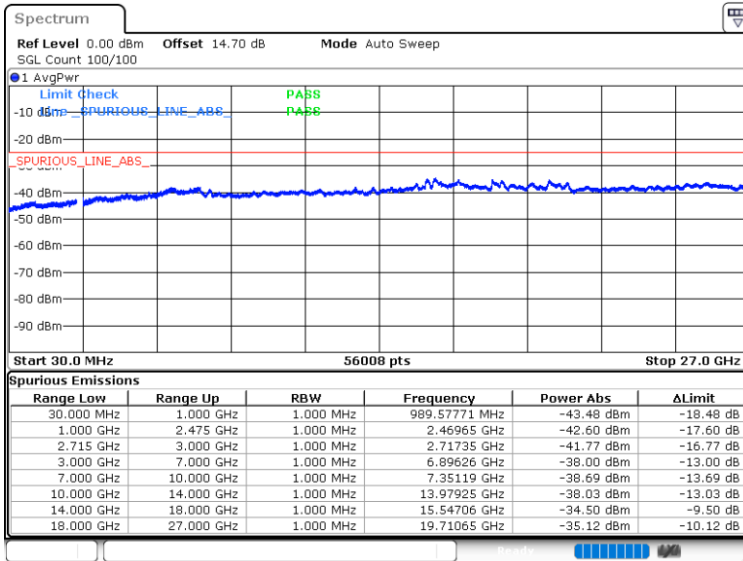
### Middle Channel / QPSK



Date: 4.OCT.2022 11:46:11

Date: 4.OCT.2022 11:47:20

### Highest Channel / QPSK



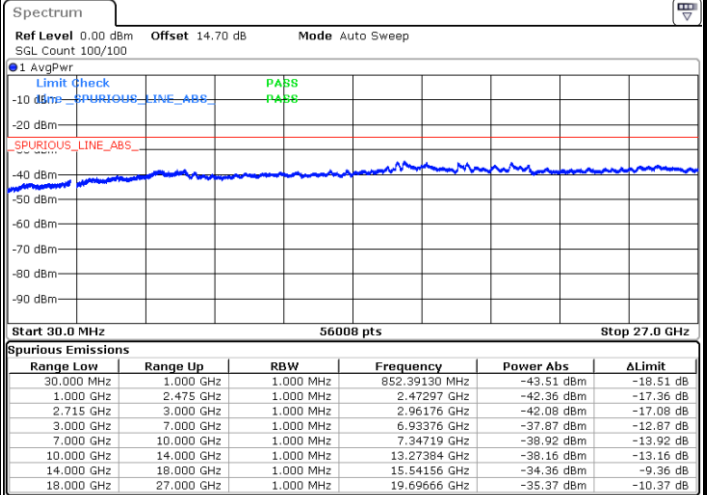
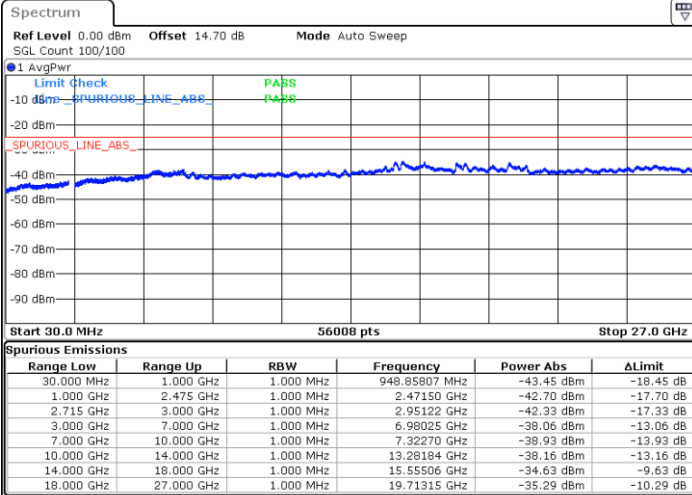
Date: 4.OCT.2022 11:48:29



LTE Band 41 / 10MHz

Lowest Channel / QPSK

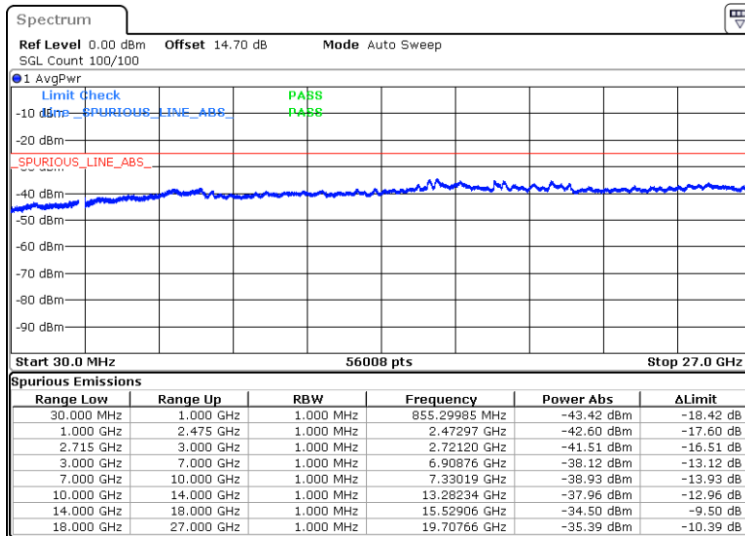
Middle Channel / QPSK



Date: 4.OCT.2022 11:49:43

Date: 4.OCT.2022 11:50:52

Highest Channel / QPSK



Date: 4.OCT.2022 11:52:01

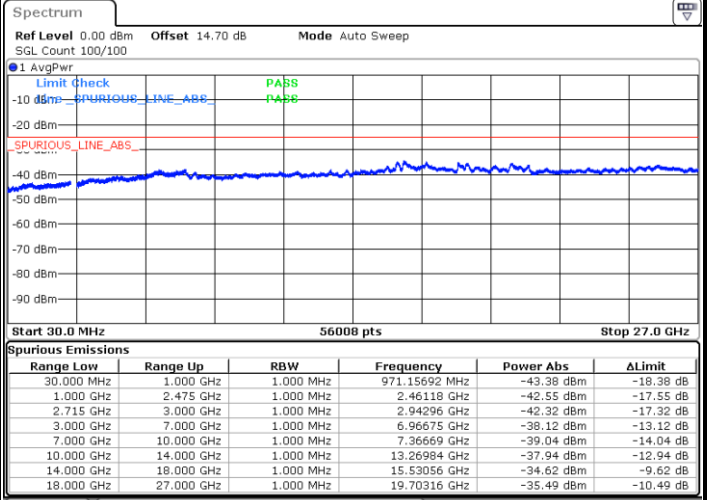
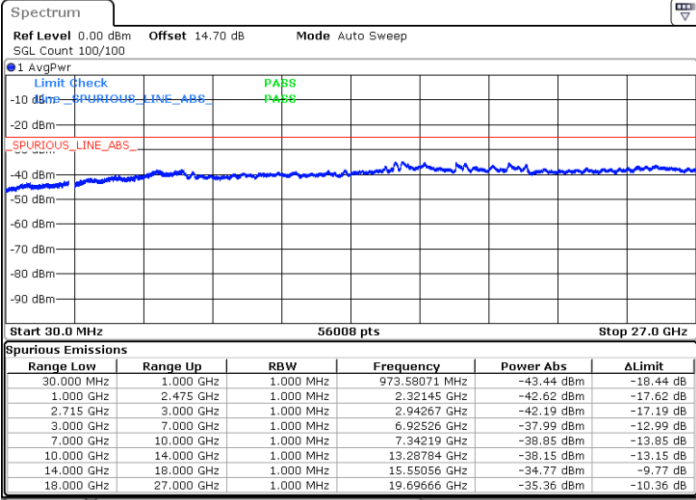




LTE Band 41 / 15MHz

Lowest Channel / QPSK

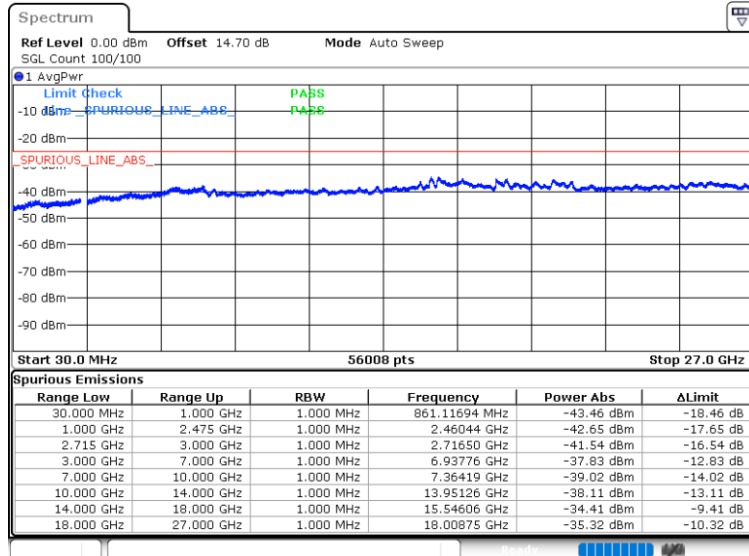
Middle Channel / QPSK



Date: 4.OCT.2022 11:53:18

Date: 4.OCT.2022 11:54:27

Highest Channel / QPSK



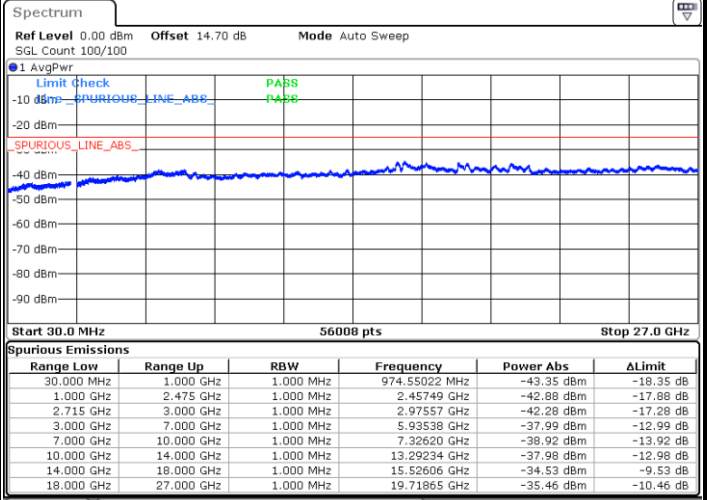
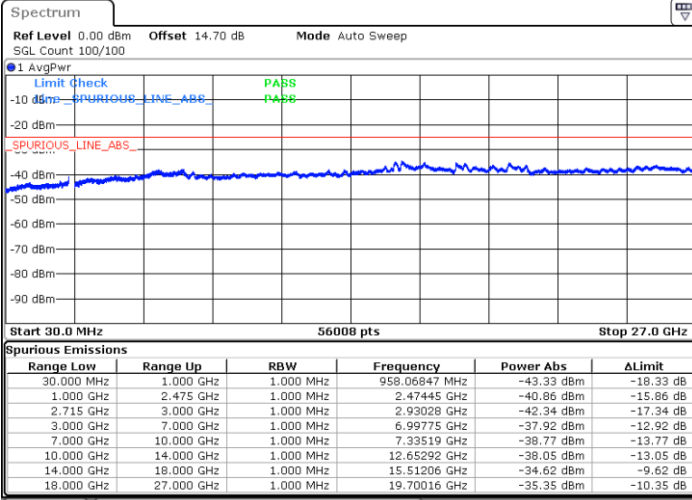
Date: 4.OCT.2022 11:55:36



LTE Band 41 / 20MHz

Lowest Channel / QPSK

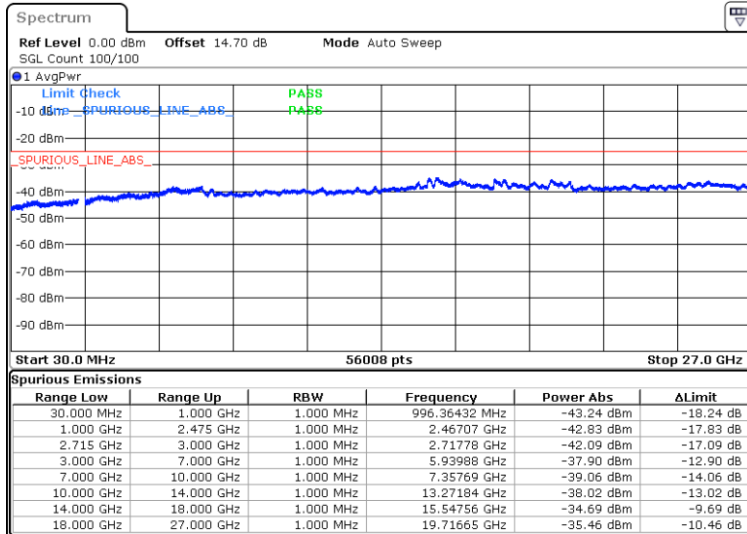
Middle Channel / QPSK



Date: 4.OCT.2022 11:56:50

Date: 4.OCT.2022 11:57:59

Highest Channel / QPSK



Date: 4.OCT.2022 11:59:08



### Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0039	
0	Normal Voltage	0.0055	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0052	

**Note:**

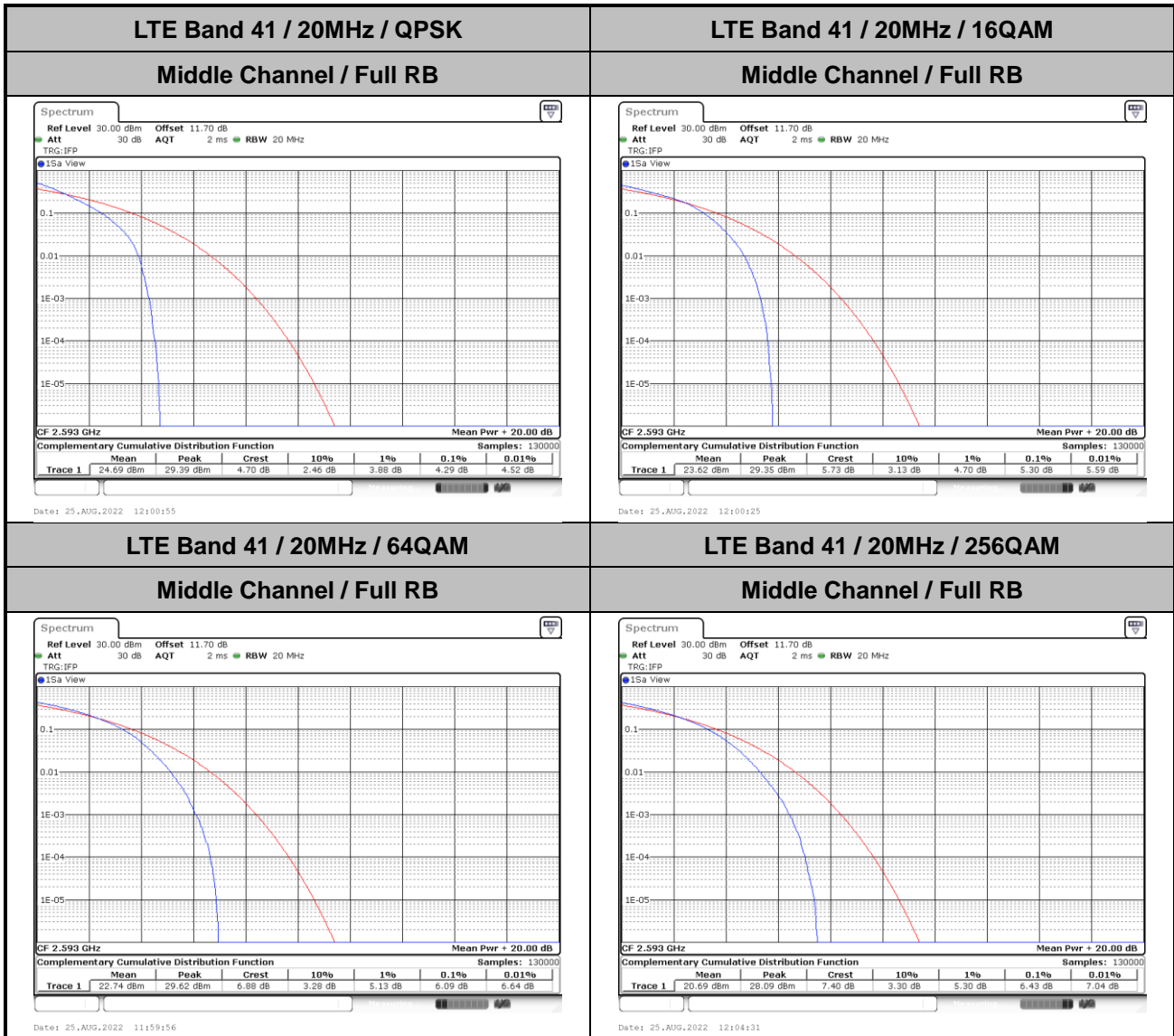
- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41 (HPUE)

### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.29	5.30	6.09	6.43	<b>PASS</b>





**26dB Bandwidth**

Mode	LTE Band 41 : 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	4.84	9.69	9.69	14.30	14.15	18.66	19.26
Mode	LTE Band 41 : 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	4.81	9.79	9.75	14.36	14.33	18.82	18.82