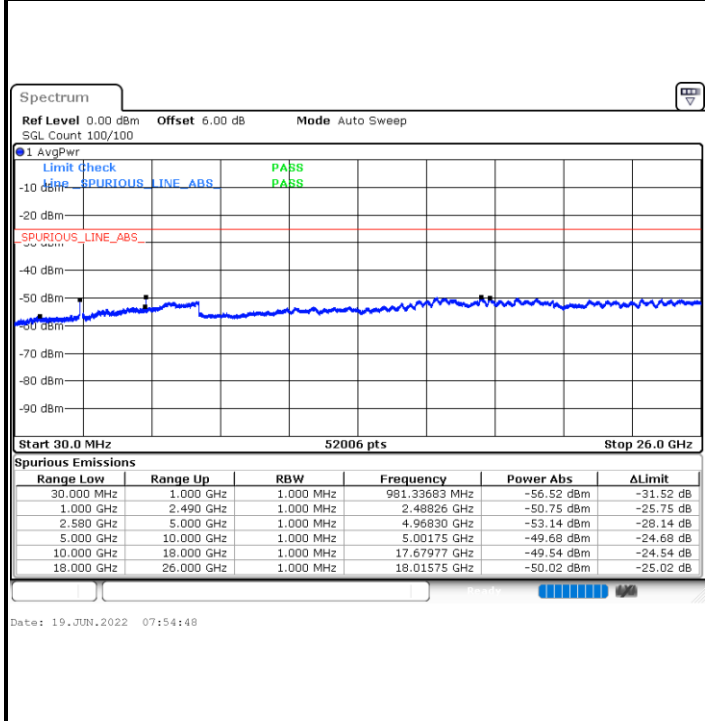


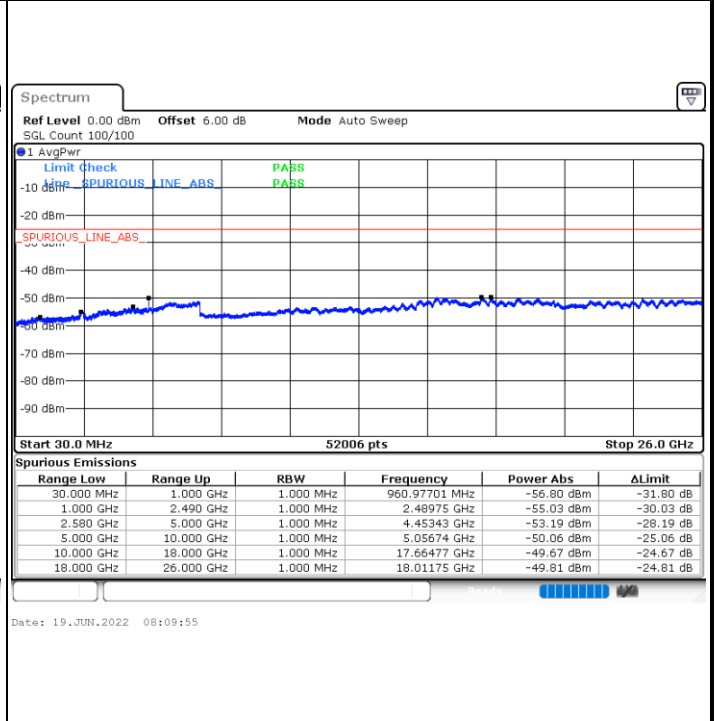


**LTE Band 7 / 15MHz**

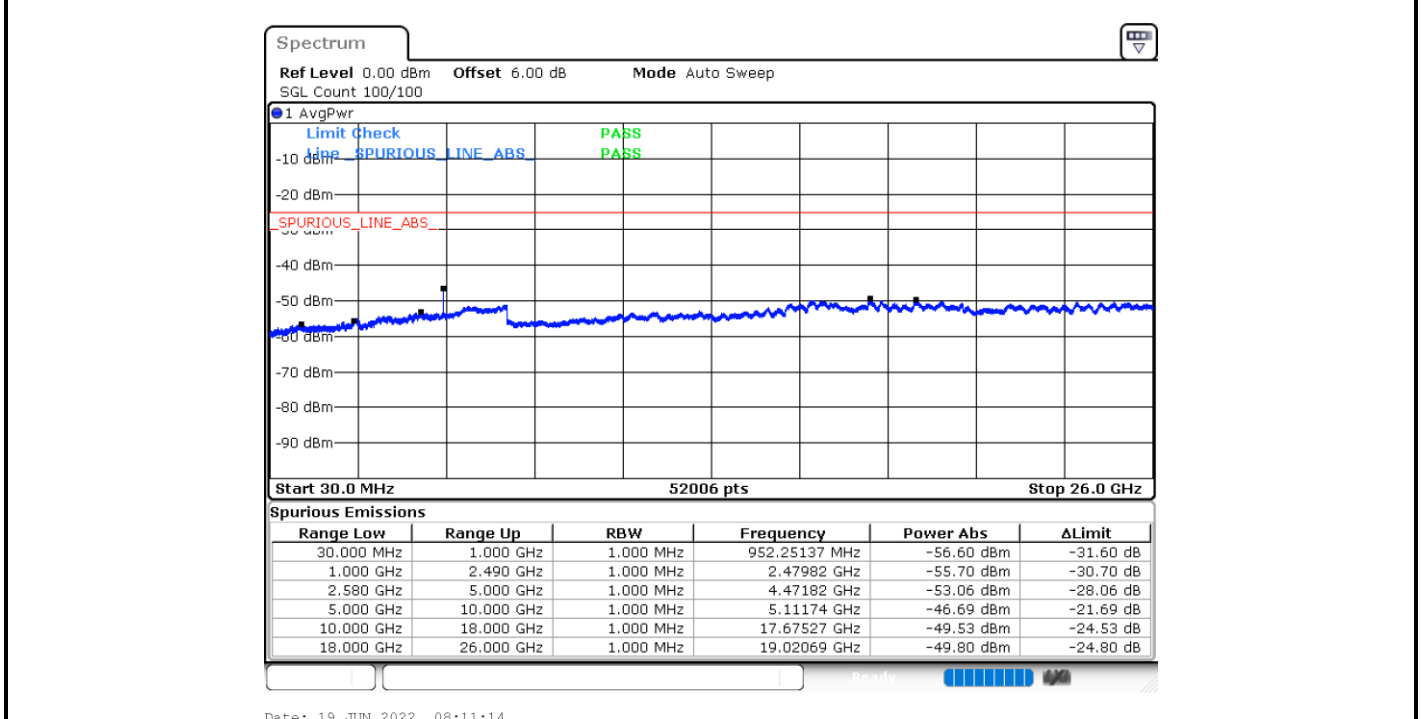
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



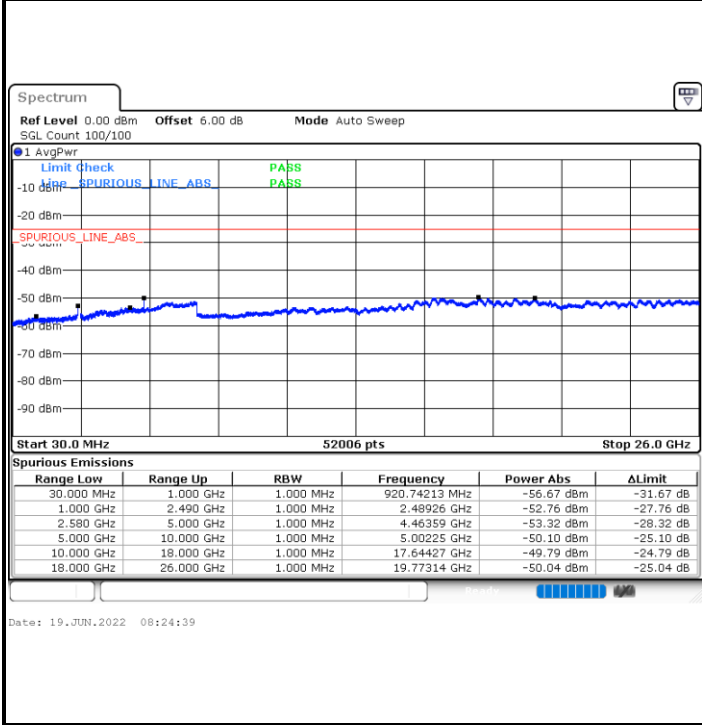
**Highest Channel / QPSK**



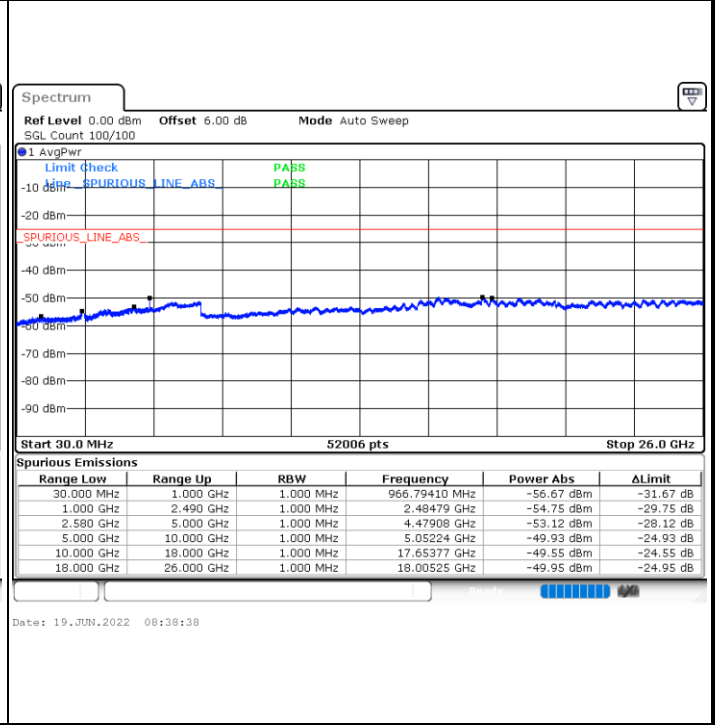


**LTE Band 7 / 20MHz**

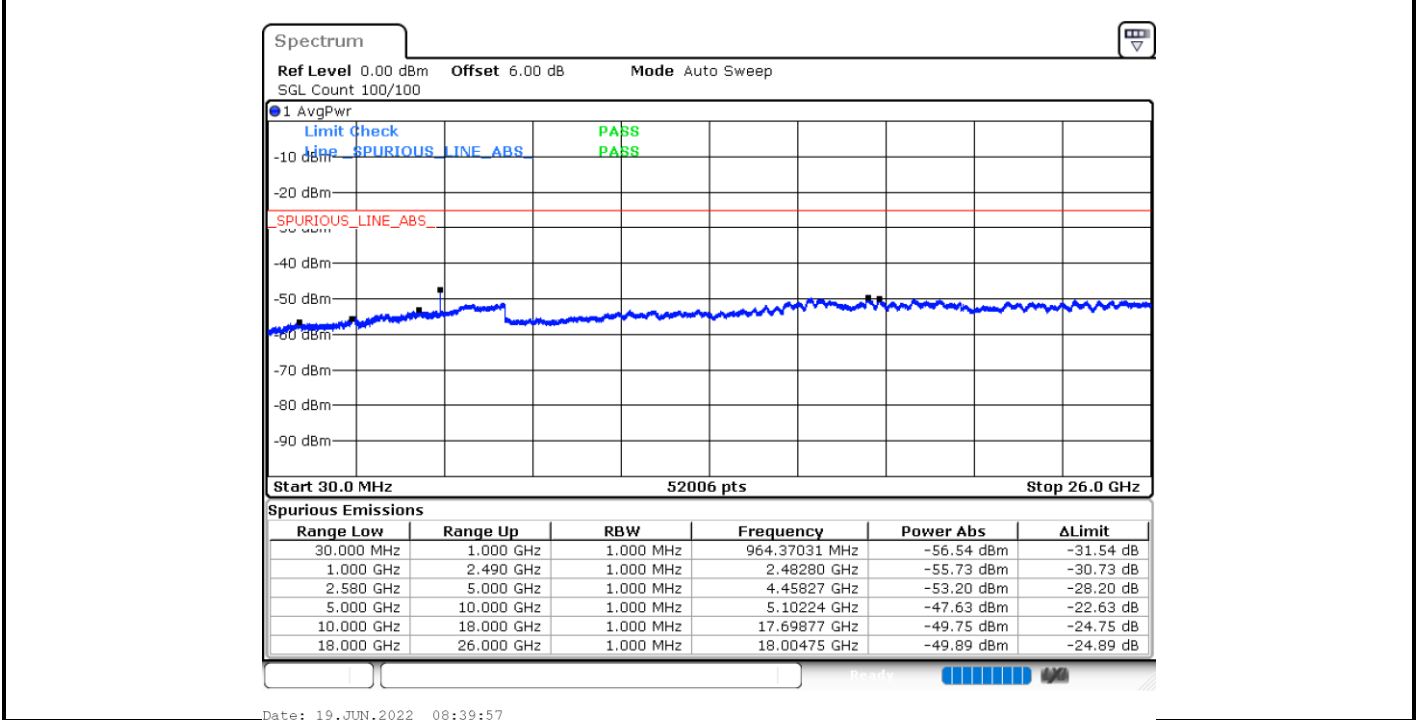
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**





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	0.0021	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0005	

Note:

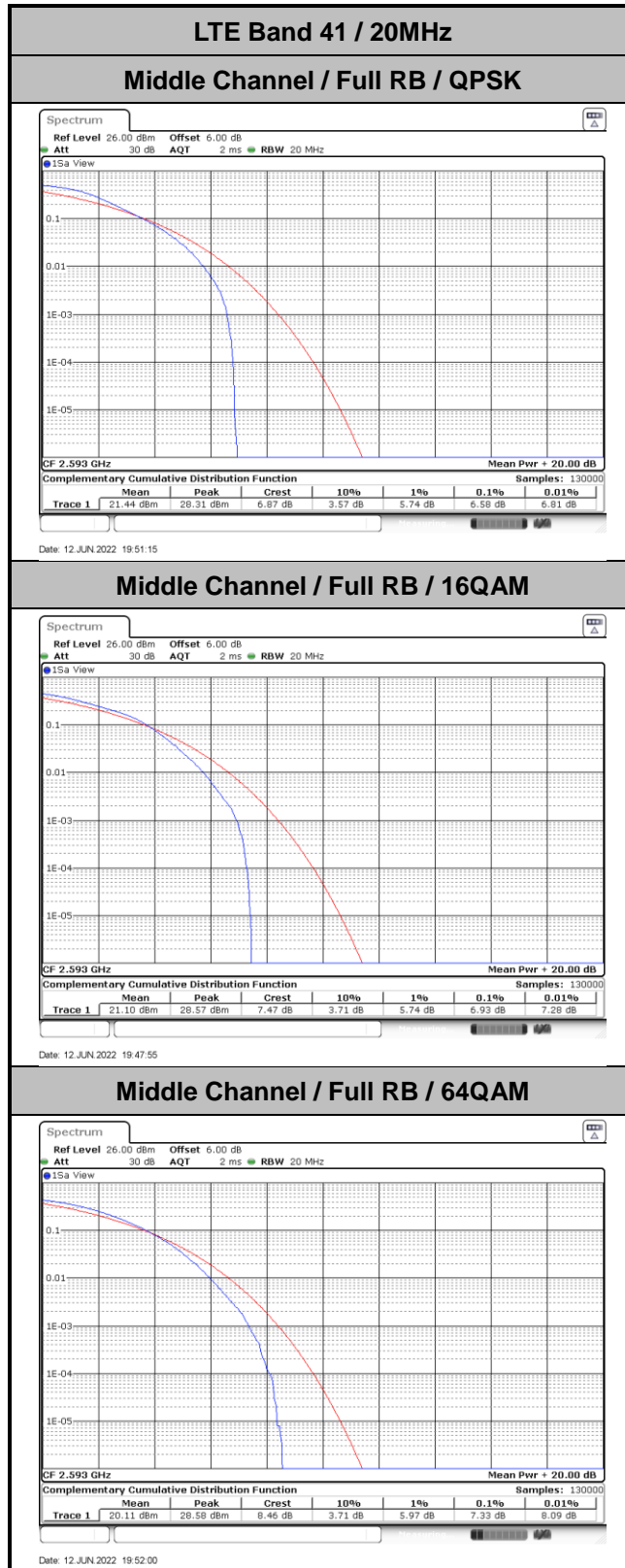
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

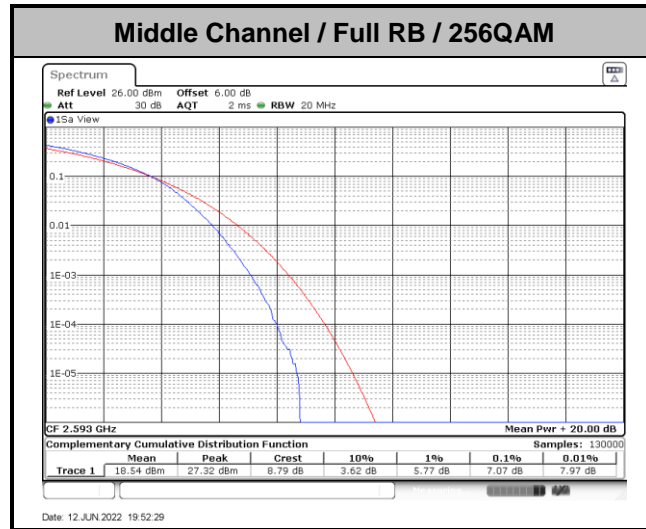


## LTE Band 41

### 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	6.58	6.93	7.33	7.07	PASS

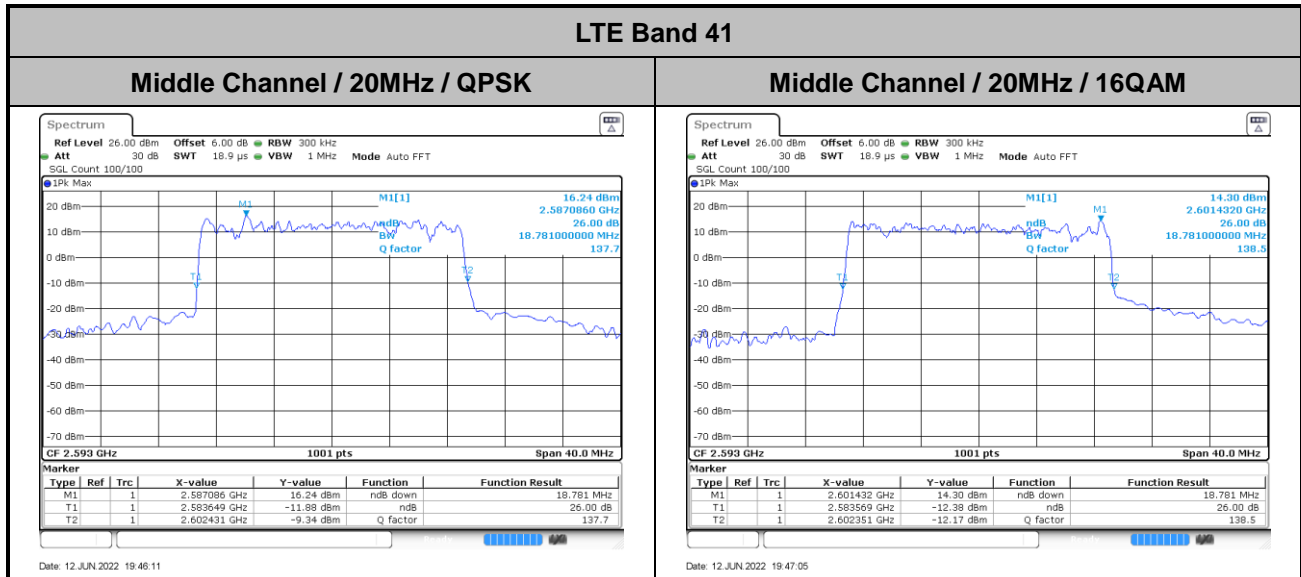






**26dB Bandwidth**

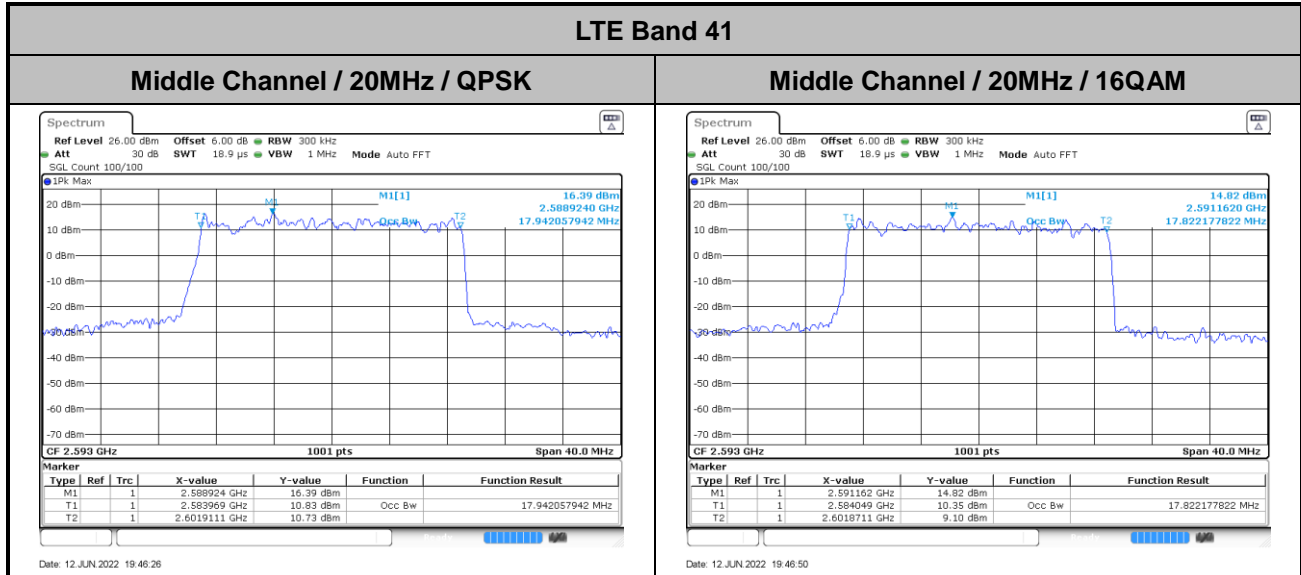
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.78	18.78





# Occupied Bandwidth

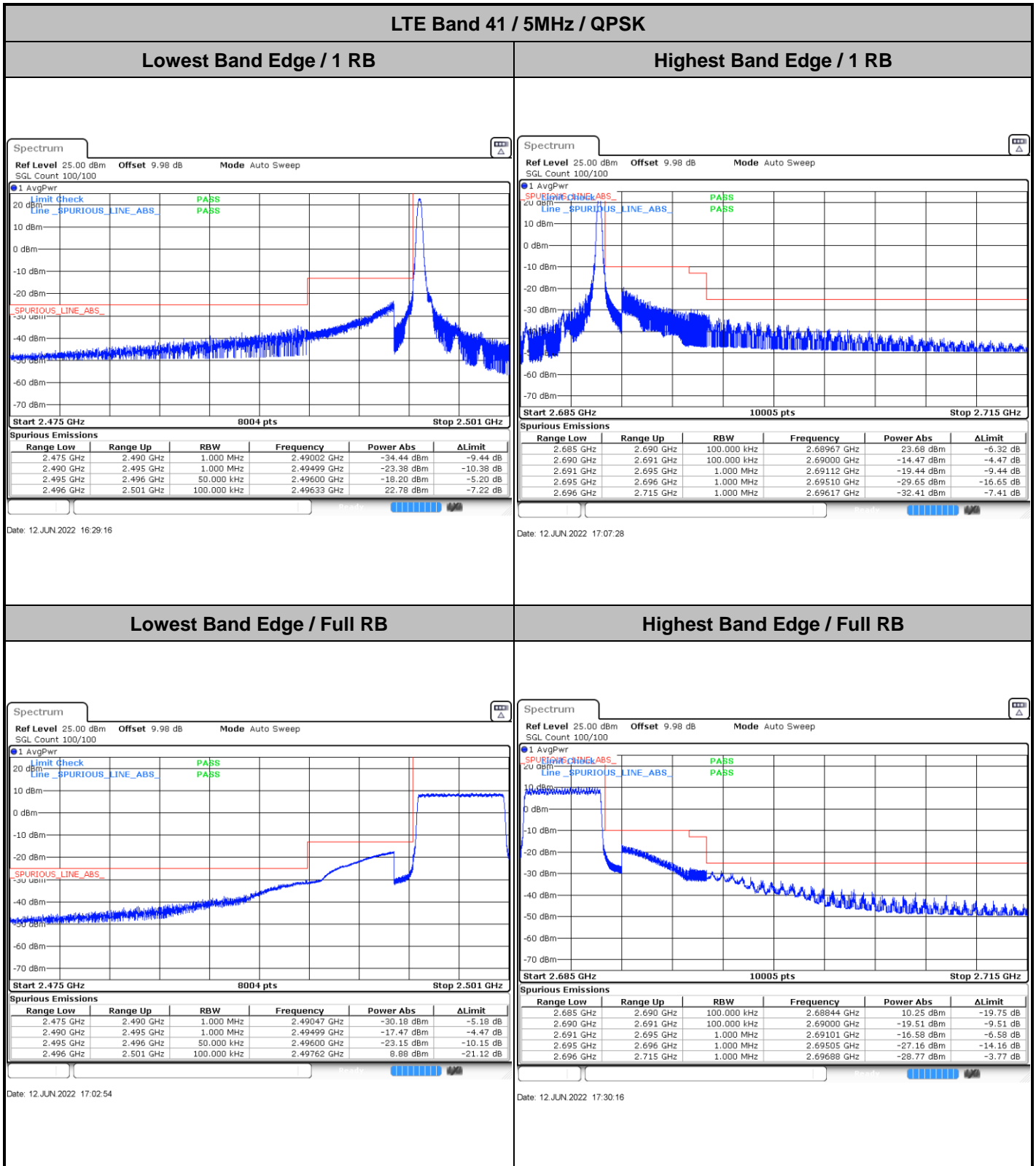
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.94	17.82







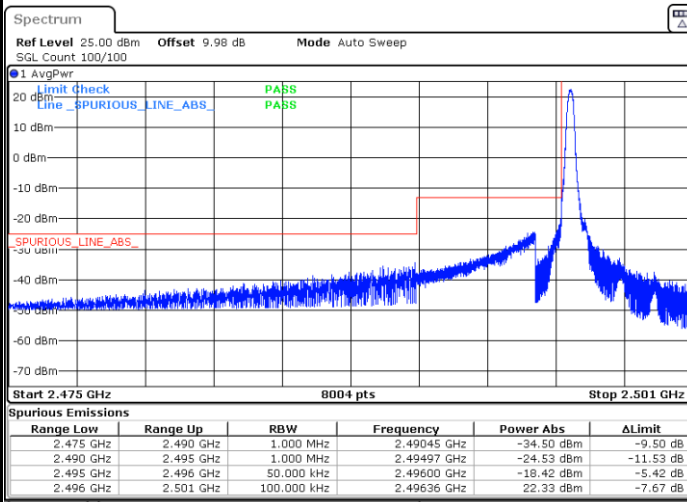
# Conducted Band Edge





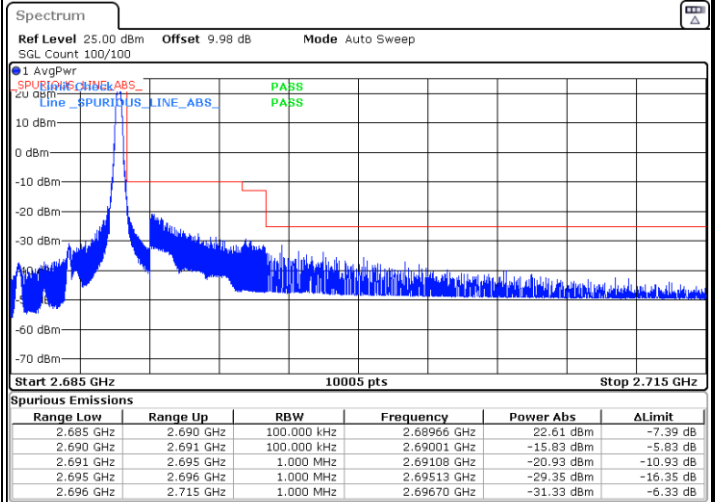
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



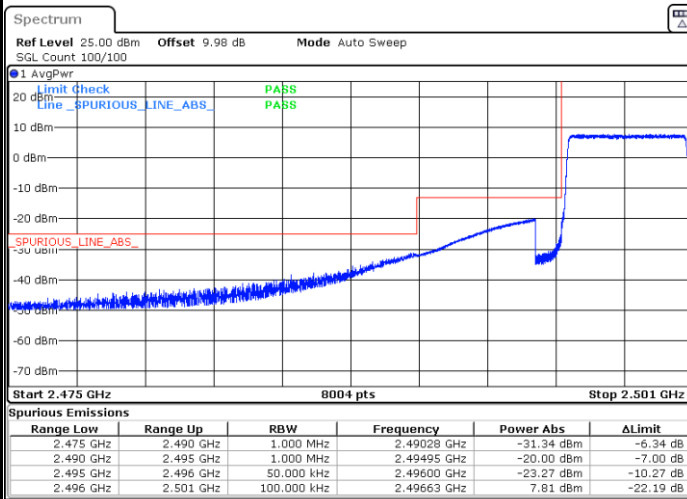
Date: 12 JUN 2022 16:31:02

Highest Band Edge / 1 RB



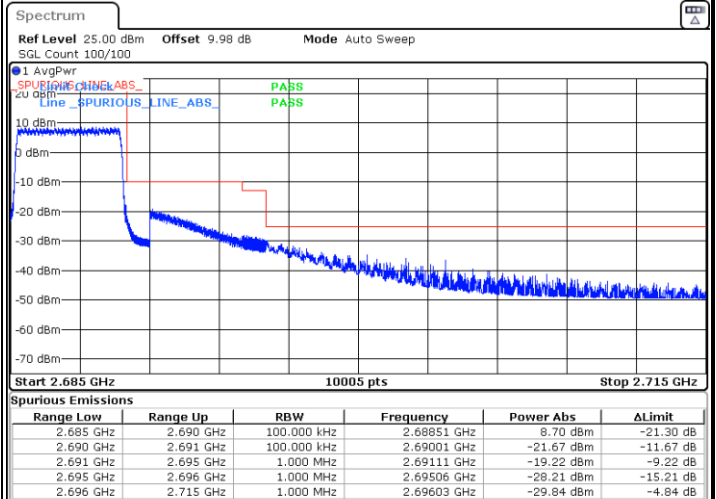
Date: 12 JUN 2022 17:09:16

Lowest Band Edge / Full RB



Date: 12 JUN 2022 17:01:06

Highest Band Edge / Full RB

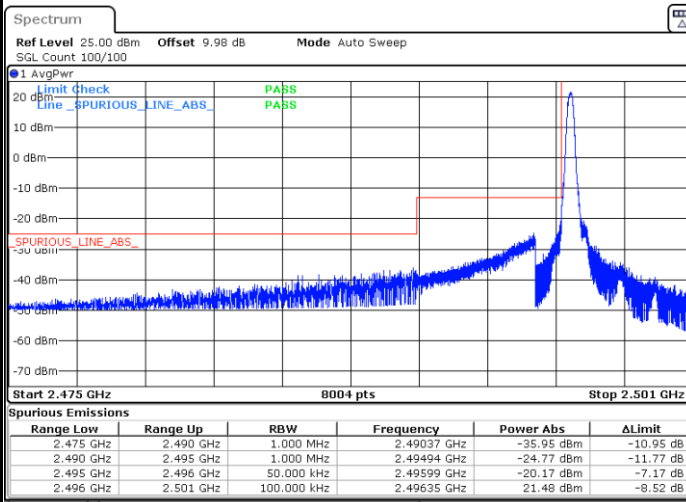


Date: 12 JUN 2022 17:28:28



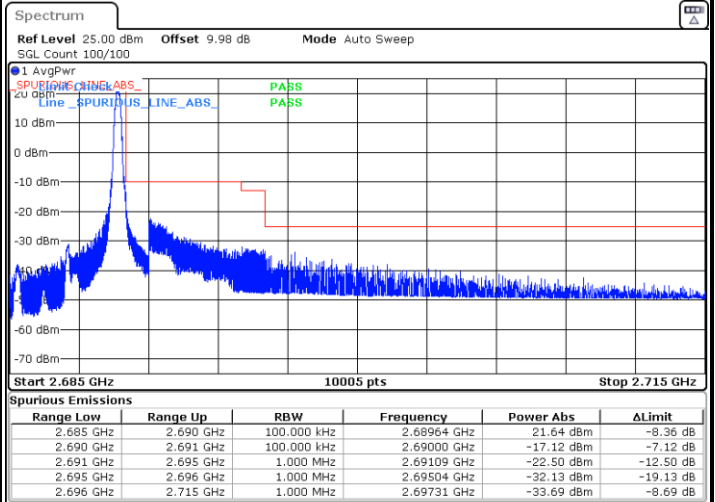
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



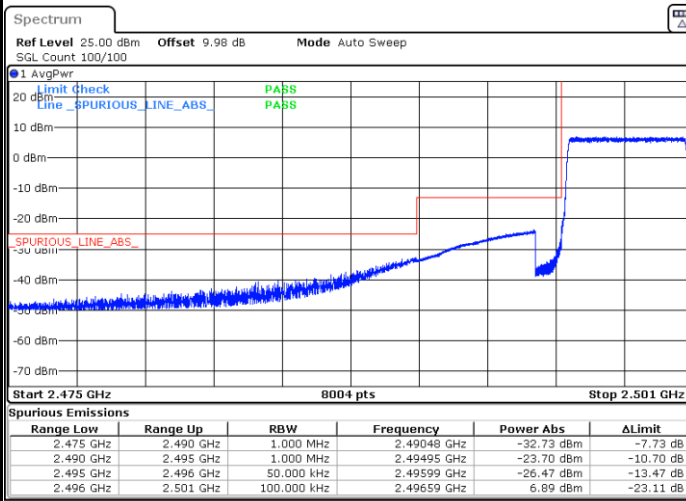
Date: 12 JUN 2022 16:37:40

Highest Band Edge / 1 RB



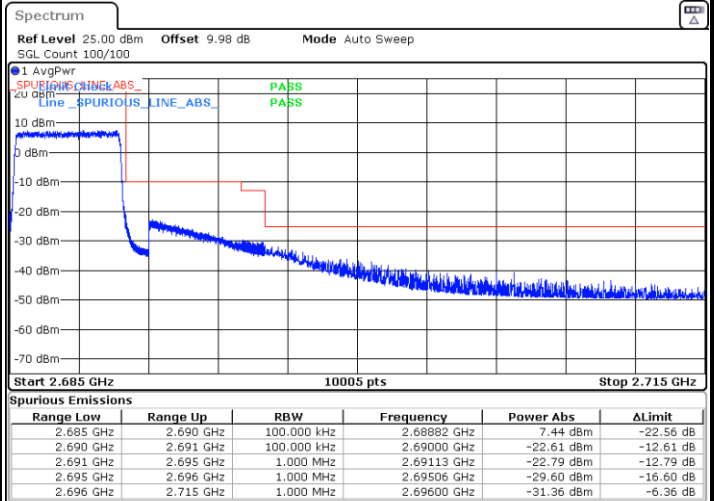
Date: 12 JUN 2022 17:11:04

Lowest Band Edge / Full RB



Date: 12 JUN 2022 16:59:17

Highest Band Edge / Full RB

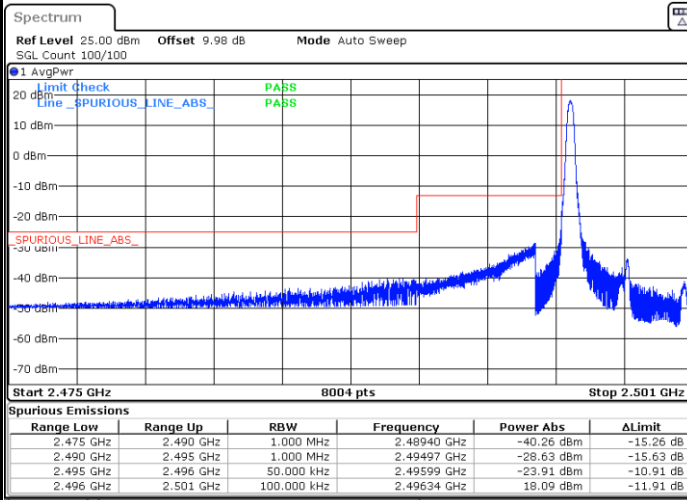


Date: 12 JUN 2022 17:26:40



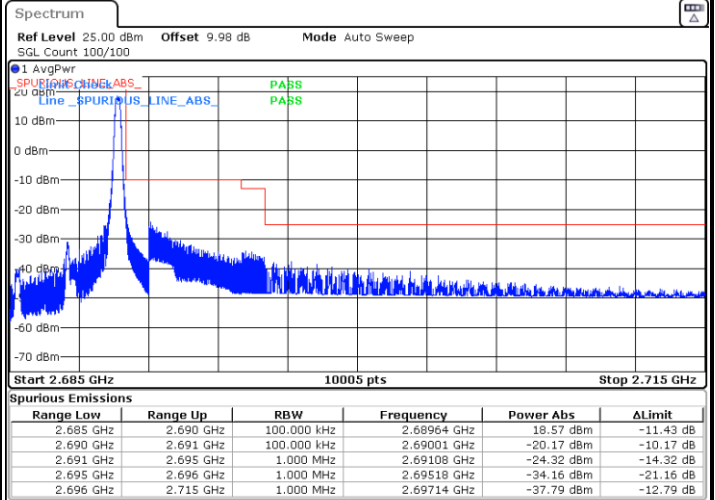
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



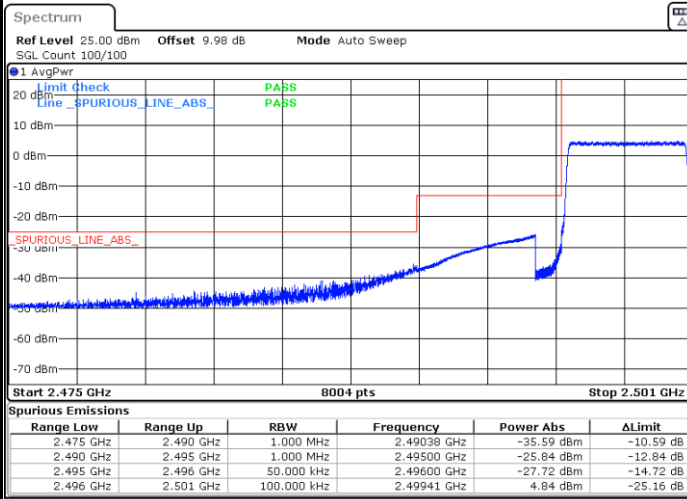
Date: 12 JUN 2022 16:39:26

Highest Band Edge / 1 RB



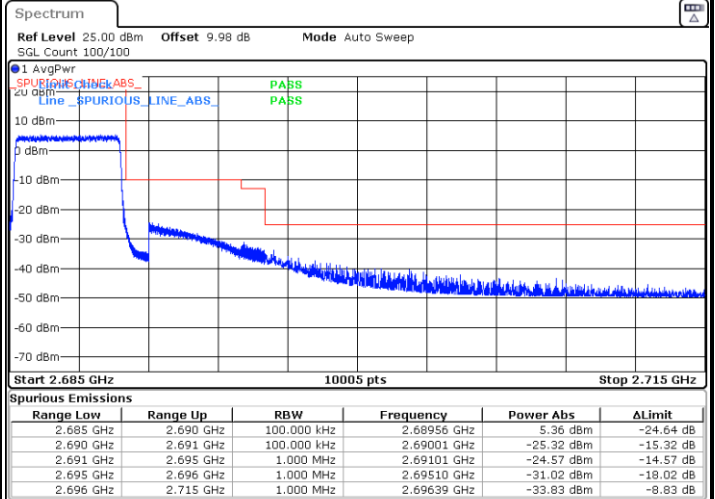
Date: 12 JUN 2022 17:12:53

Lowest Band Edge / Full RB



Date: 12 JUN 2022 16:57:29

Highest Band Edge / Full RB

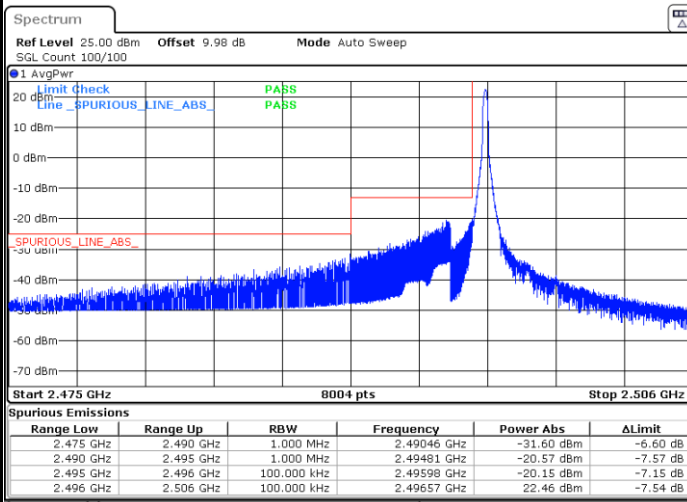


Date: 12 JUN 2022 17:24:49



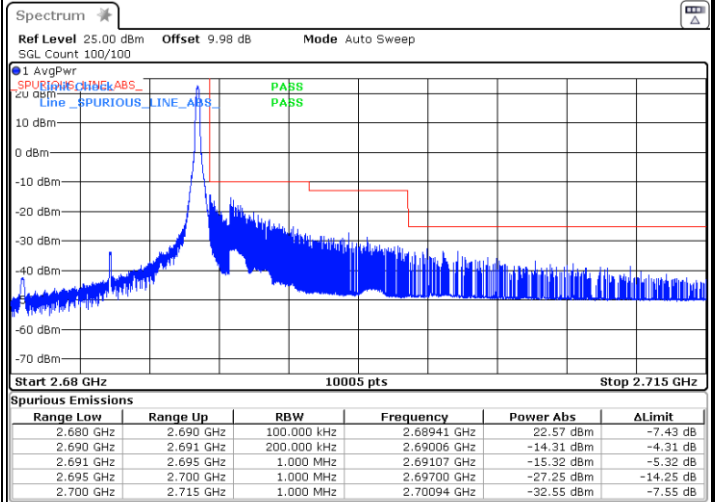
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



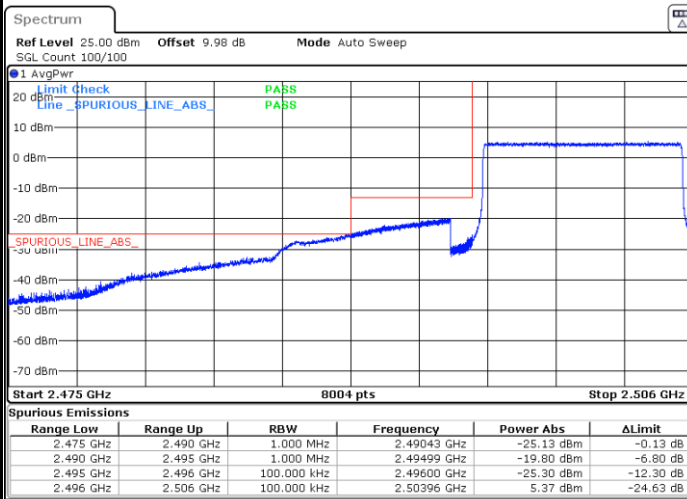
Date: 12 JUN 2022 18:30:50

Highest Band Edge / 1 RB



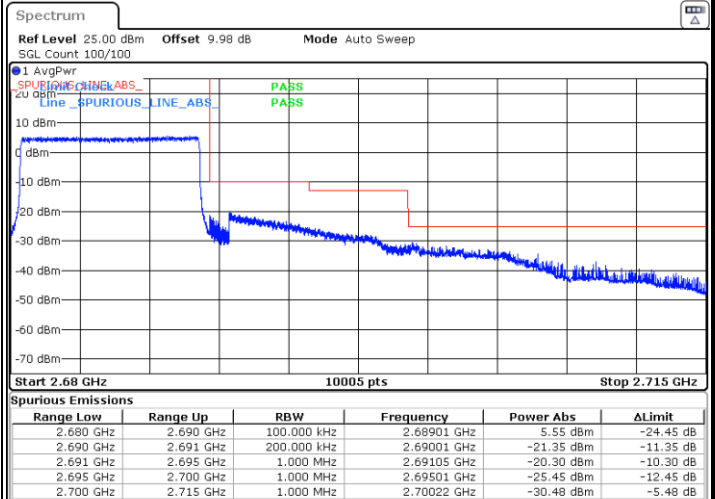
Date: 12 JUN 2022 18:17:13

Lowest Band Edge / Full RB

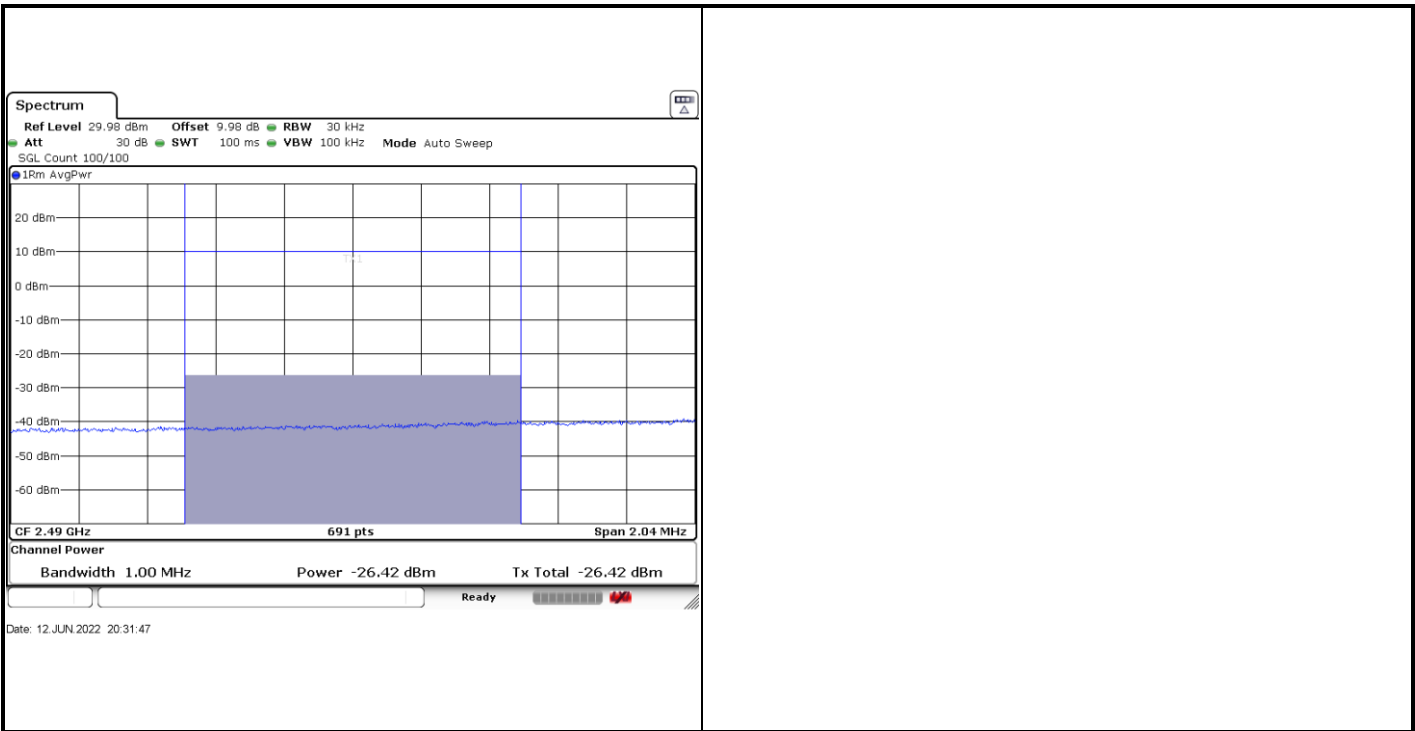


Date: 12 JUN 2022 18:38:29

Highest Band Edge / Full RB



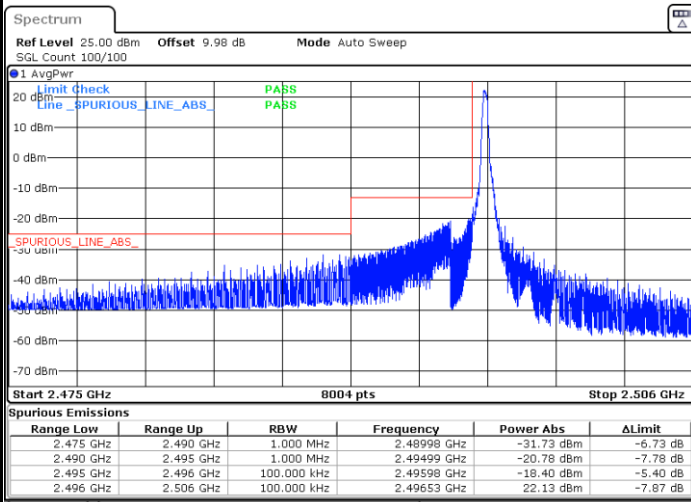
Date: 12 JUN 2022 18:55:16





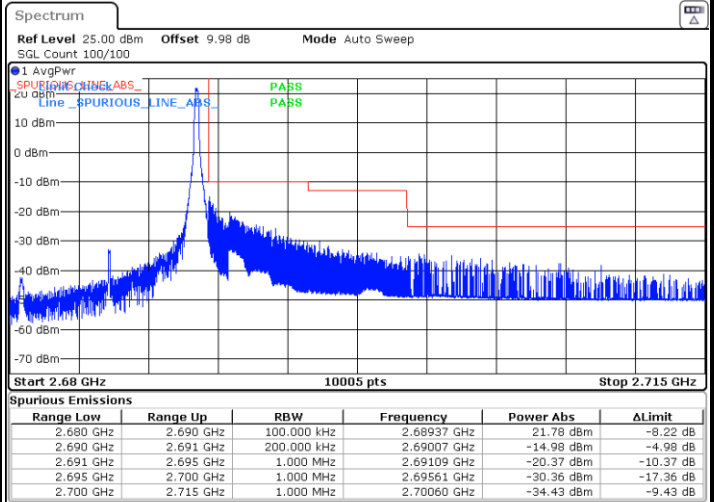
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



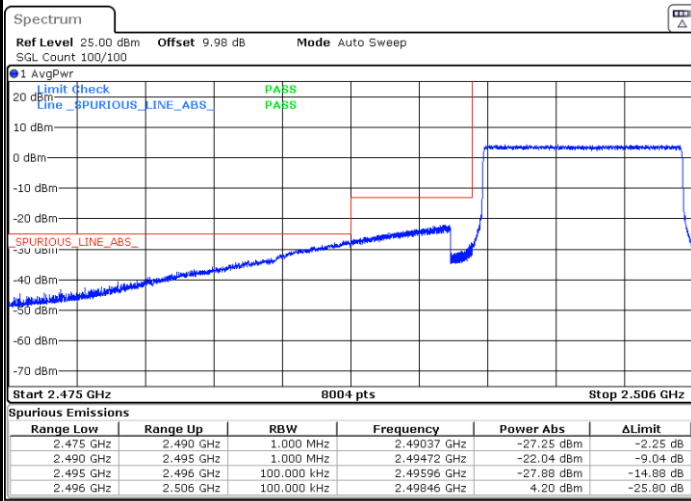
Date: 12 JUN 2022 17:35:07

Highest Band Edge / 1 RB



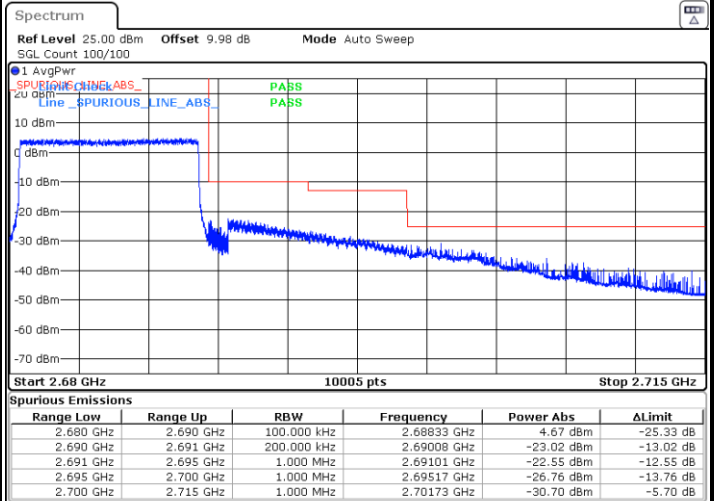
Date: 12 JUN 2022 18:42:28

Lowest Band Edge / Full RB



Date: 12 JUN 2022 18:35:05

Highest Band Edge / Full RB

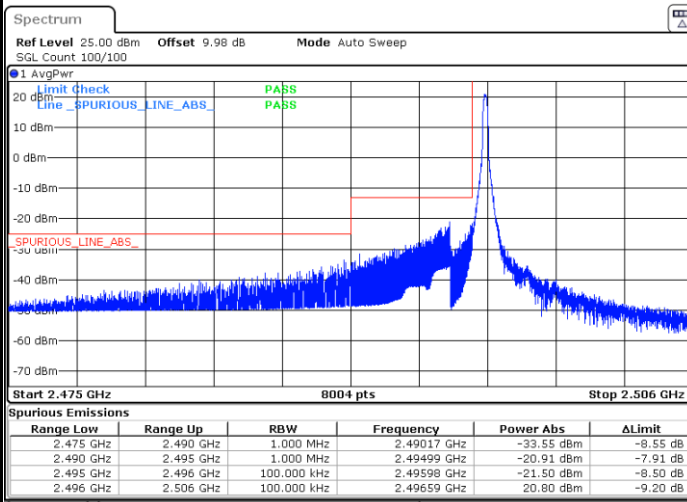


Date: 12 JUN 2022 18:54:03



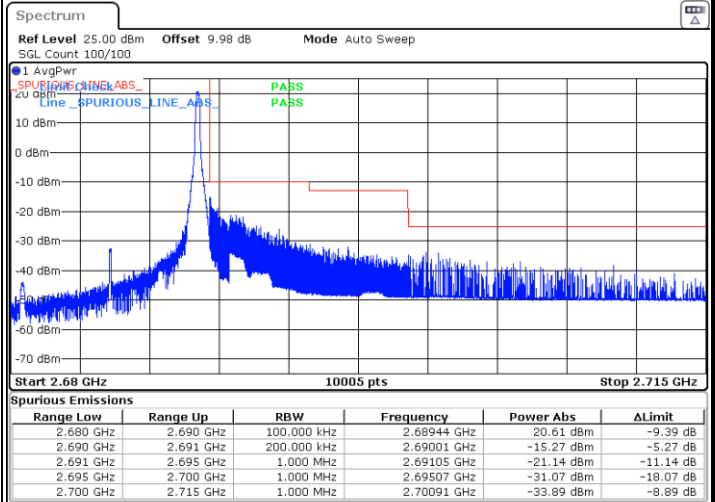
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



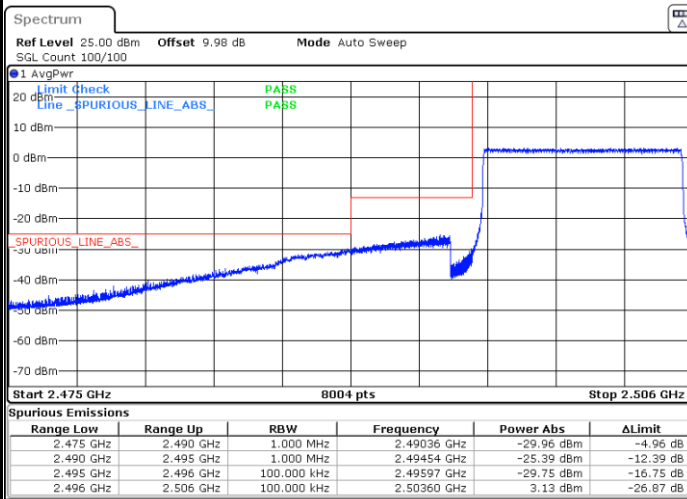
Date: 12 JUN 2022 18:32:39

Highest Band Edge / 1 RB



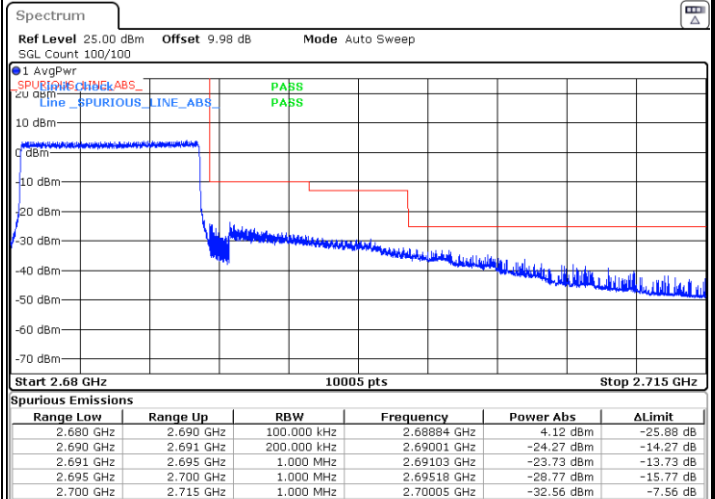
Date: 12 JUN 2022 18:43:41

Lowest Band Edge / Full RB



Date: 12 JUN 2022 18:33:52

Highest Band Edge / Full RB



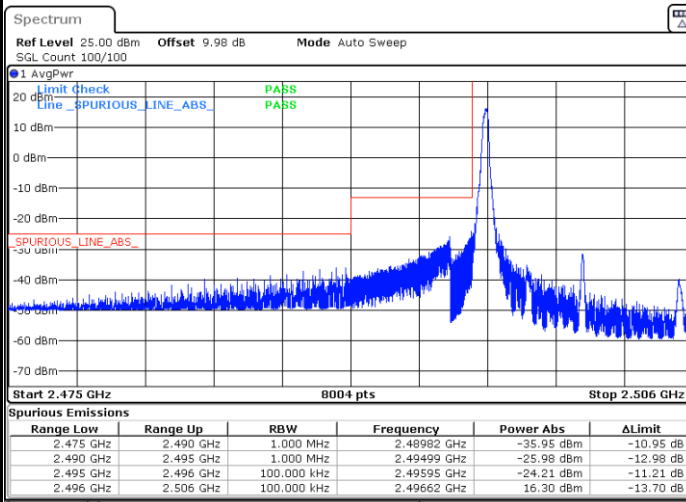
Date: 12 JUN 2022 18:52:50





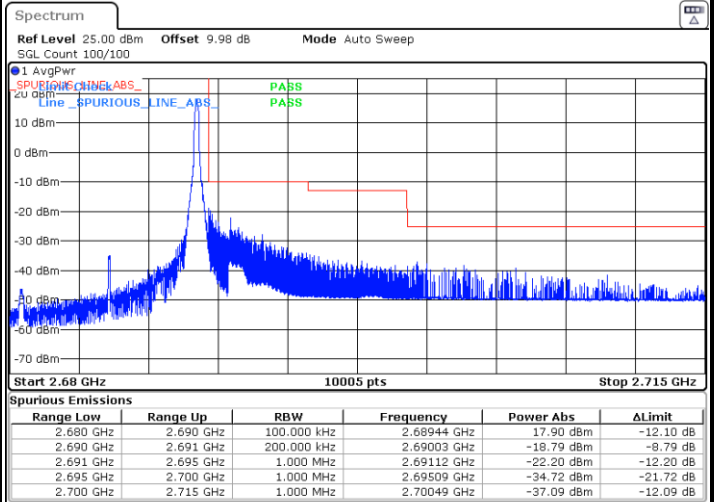
LTE Band 41 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



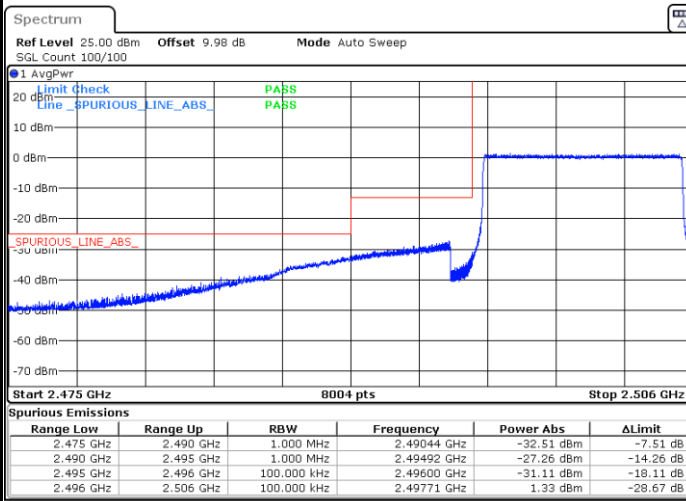
Date: 12 JUN 2022 17:38:44

Highest Band Edge / 1 RB



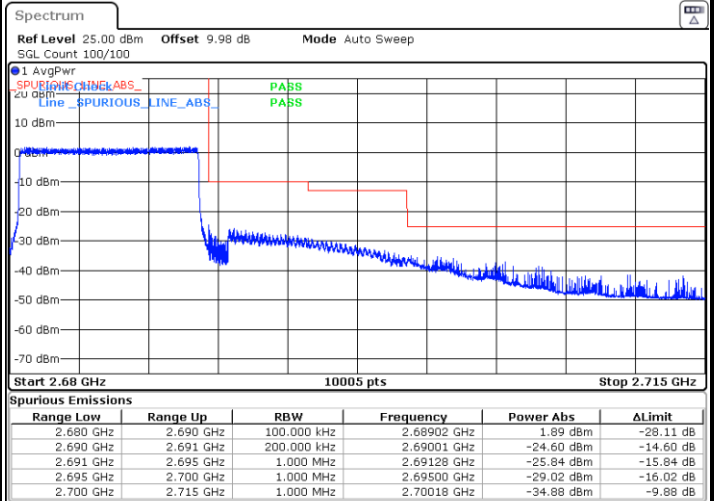
Date: 12 JUN 2022 18:44:54

Lowest Band Edge / Full RB



Date: 12 JUN 2022 18:12:35

Highest Band Edge / Full RB

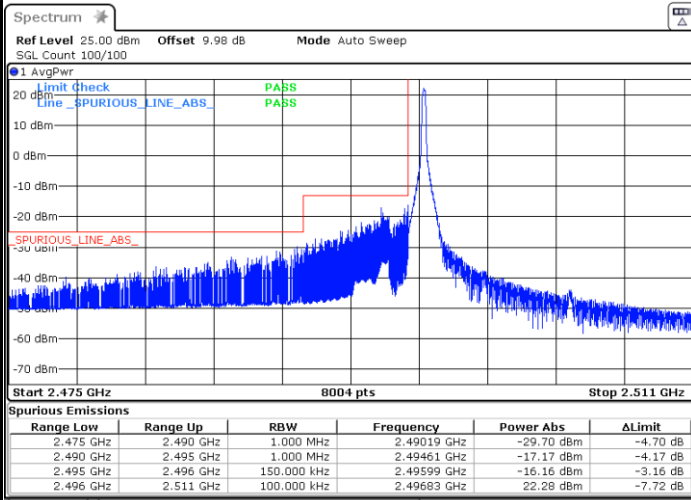


Date: 12 JUN 2022 18:51:37



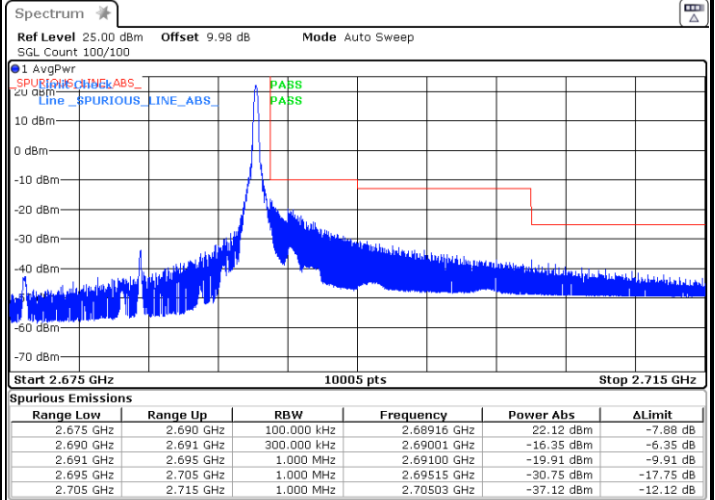
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



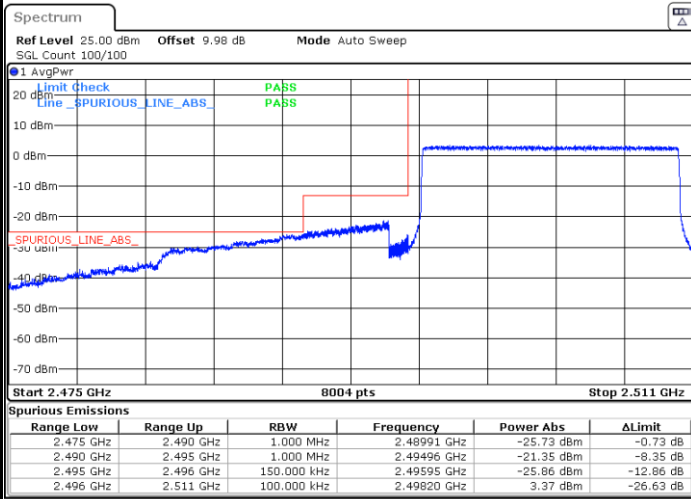
Date: 12 JUN 2022 18:22:52

Highest Band Edge / 1 RB



Date: 12 JUN 2022 18:24:24

Lowest Band Edge / Full RB

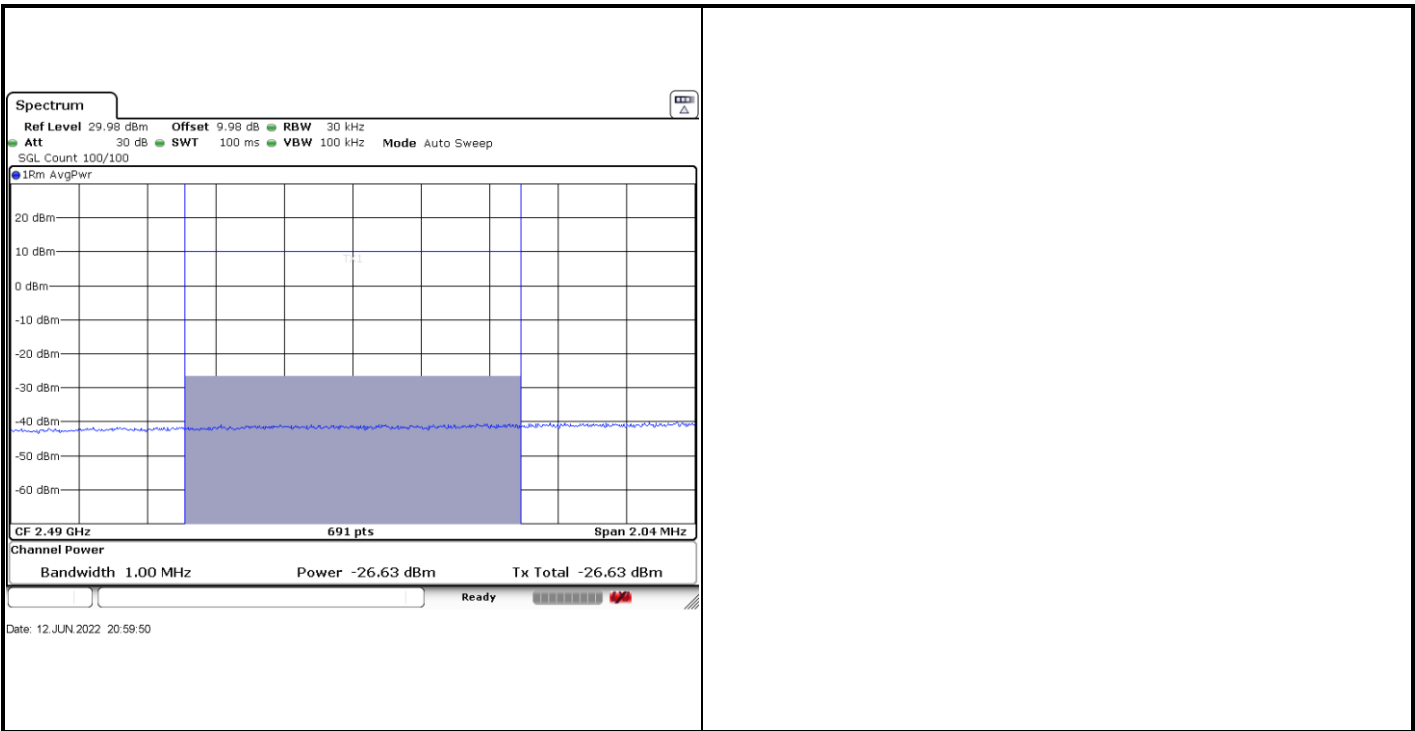


Date: 12 JUN 2022 19:06:31

Highest Band Edge / Full RB



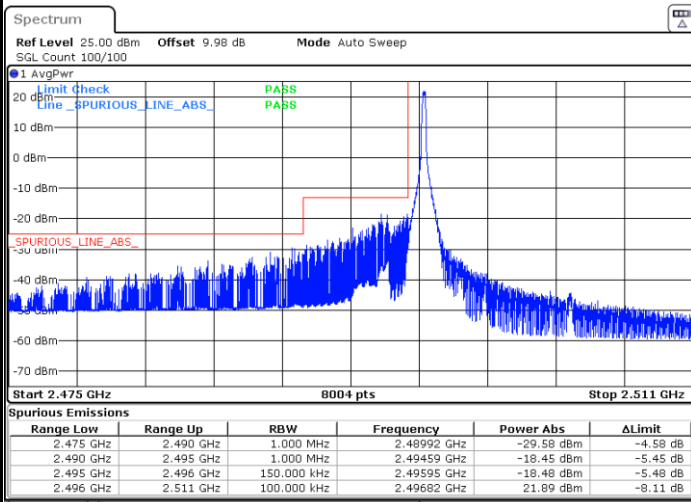
Date: 12 JUN 2022 19:19:07





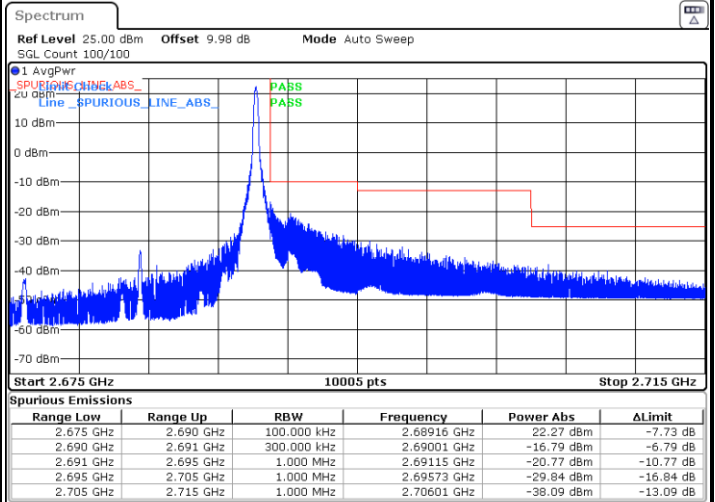
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



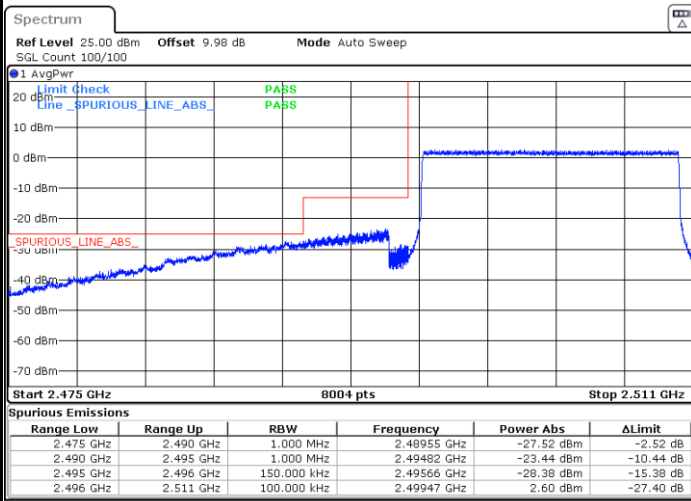
Date: 12 JUN 2022 18:57:53

Highest Band Edge / 1 RB



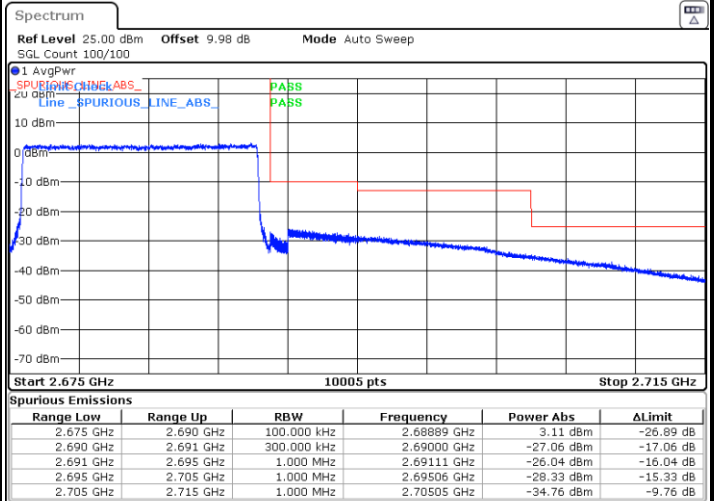
Date: 12 JUN 2022 19:10:31

Lowest Band Edge / Full RB



Date: 12 JUN 2022 19:05:18

Highest Band Edge / Full RB

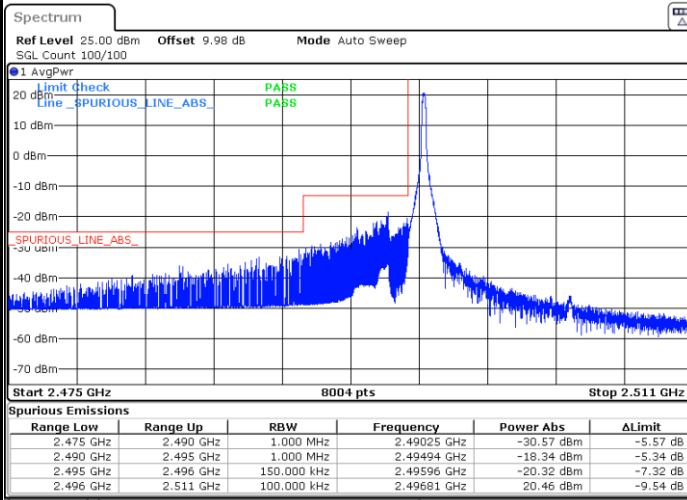


Date: 12 JUN 2022 19:17:53



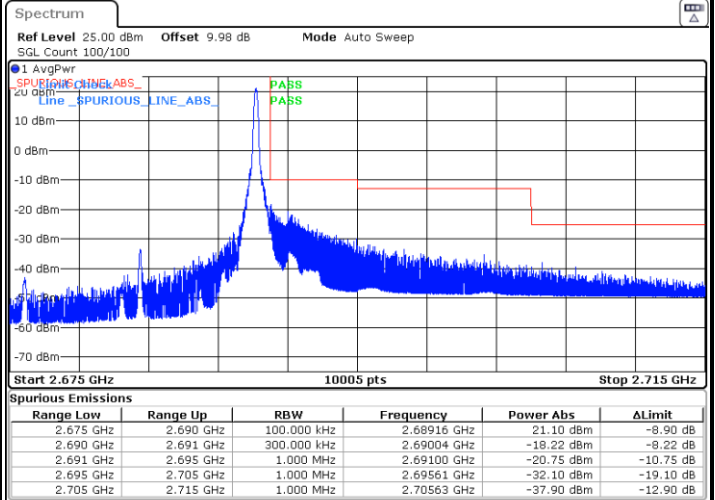
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



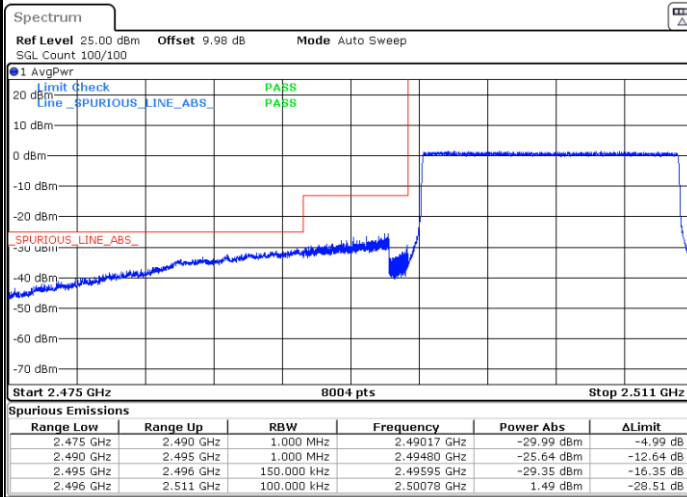
Date: 12 JUN 2022 18:59:07

Highest Band Edge / 1 RB



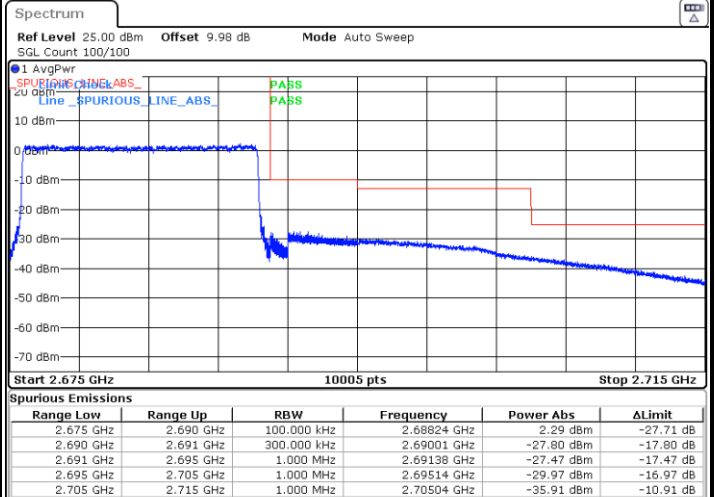
Date: 12 JUN 2022 19:11:44

Lowest Band Edge / Full RB



Date: 12 JUN 2022 19:04:05

Highest Band Edge / Full RB

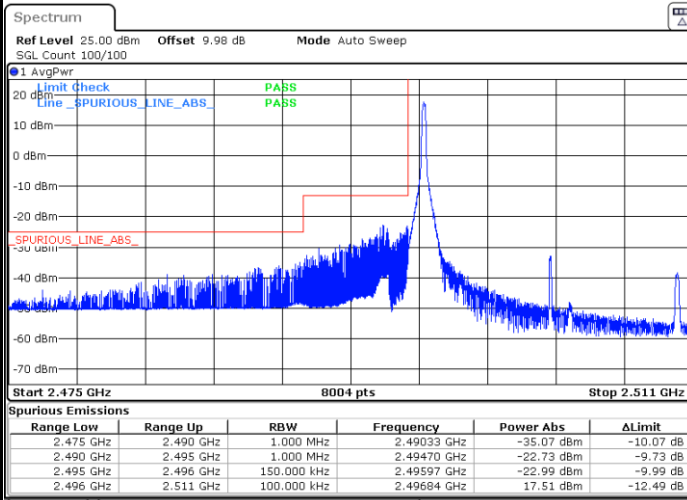


Date: 12 JUN 2022 19:16:40



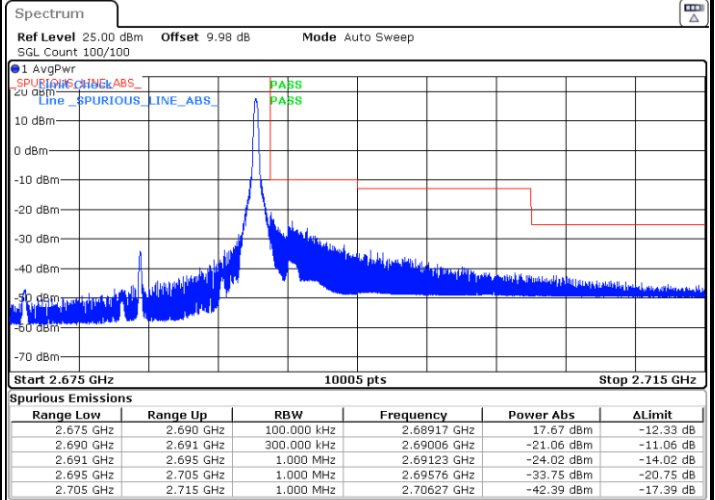
LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



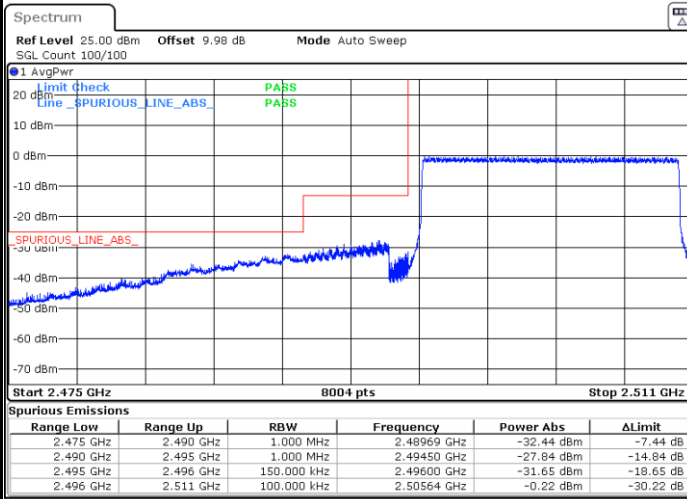
Date: 12 JUN 2022 19:00:20

Highest Band Edge / 1 RB



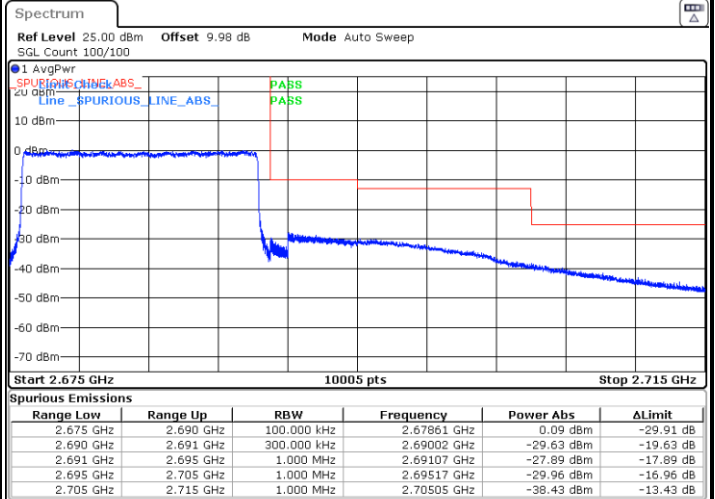
Date: 12 JUN 2022 19:12:57

Lowest Band Edge / Full RB



Date: 12 JUN 2022 19:02:52

Highest Band Edge / Full RB

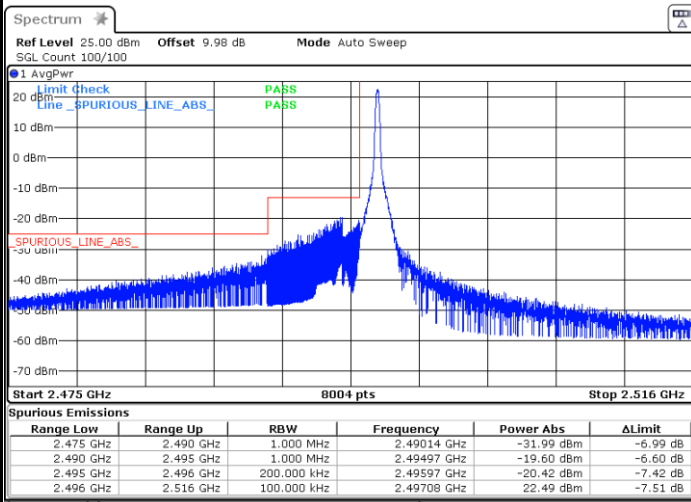


Date: 12 JUN 2022 19:15:27



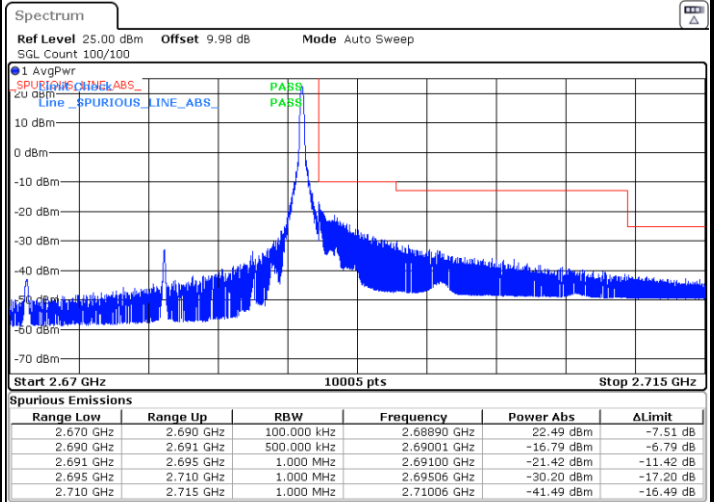
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



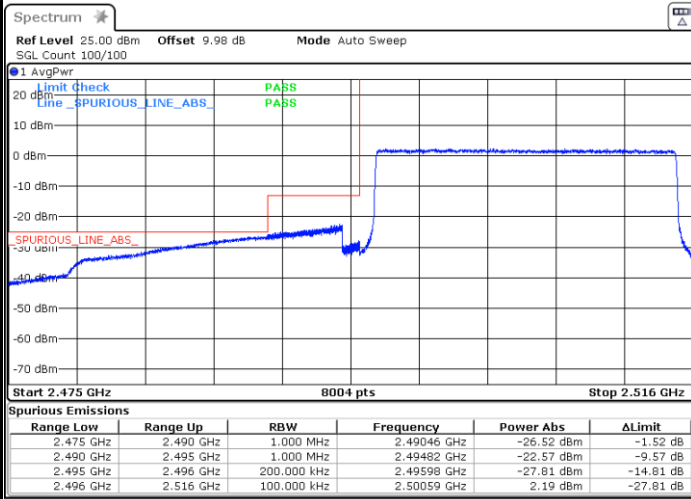
Date: 12 JUN 2022 18:27:10

Highest Band Edge / 1 RB



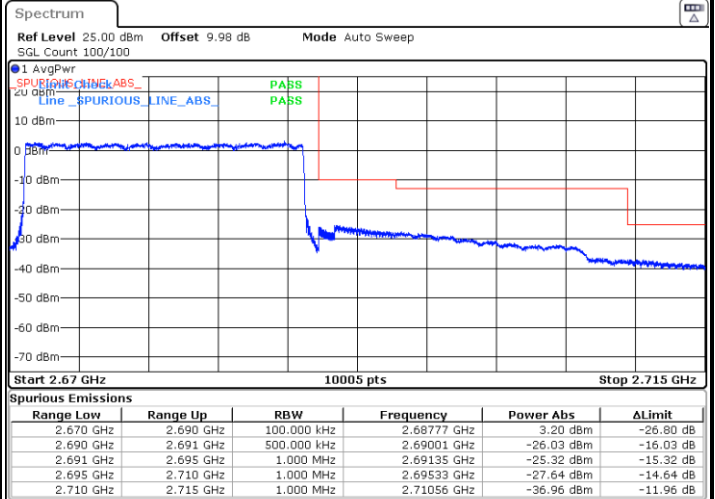
Date: 12 JUN 2022 18:28:27

Lowest Band Edge / Full RB



Date: 12 JUN 2022 20:19:21

Highest Band Edge / Full RB

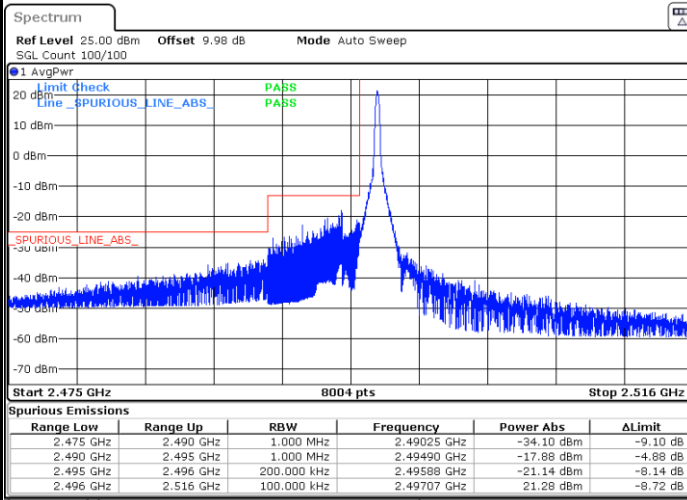


Date: 12 JUN 2022 19:45:47



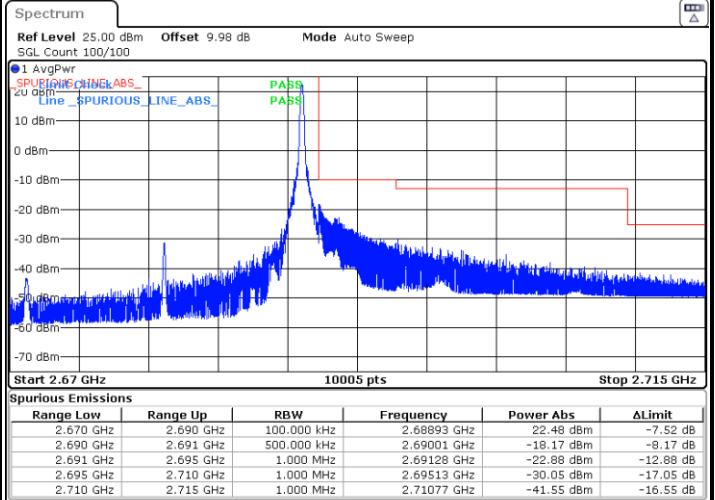
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



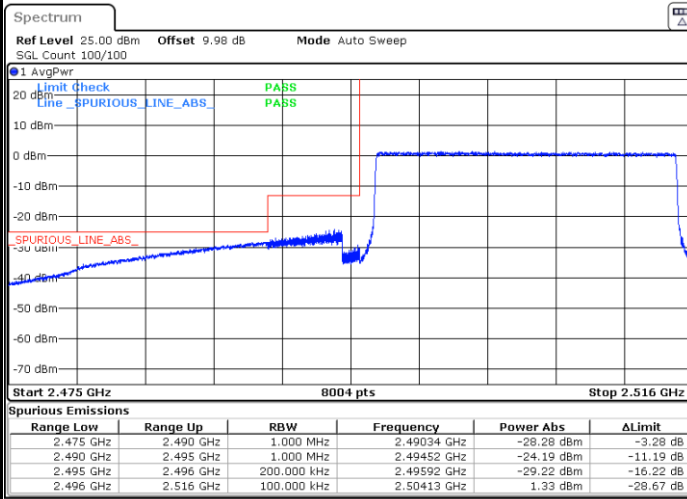
Date: 12 JUN 2022 19:21:44

Highest Band Edge / 1 RB



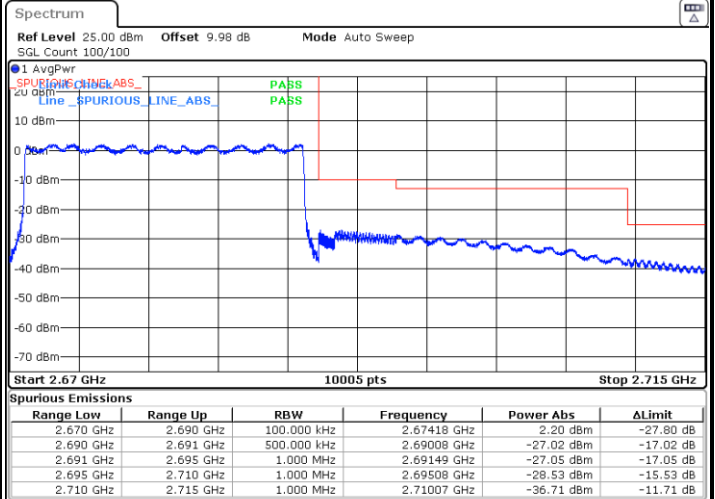
Date: 12 JUN 2022 19:34:26

Lowest Band Edge / Full RB



Date: 12 JUN 2022 19:29:13

Highest Band Edge / Full RB



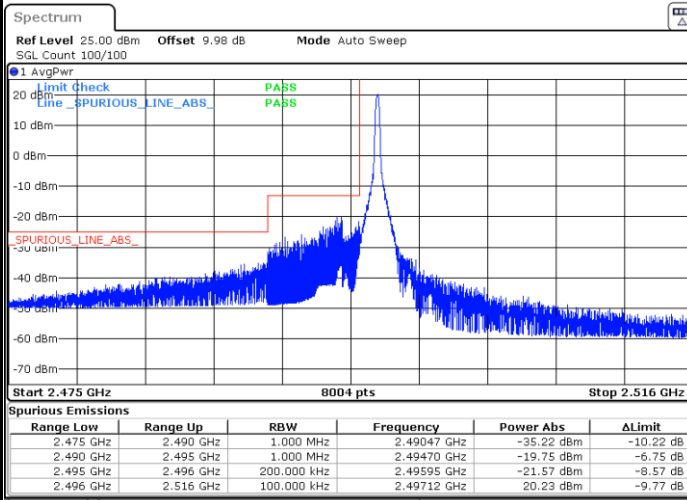
Date: 12 JUN 2022 19:44:34





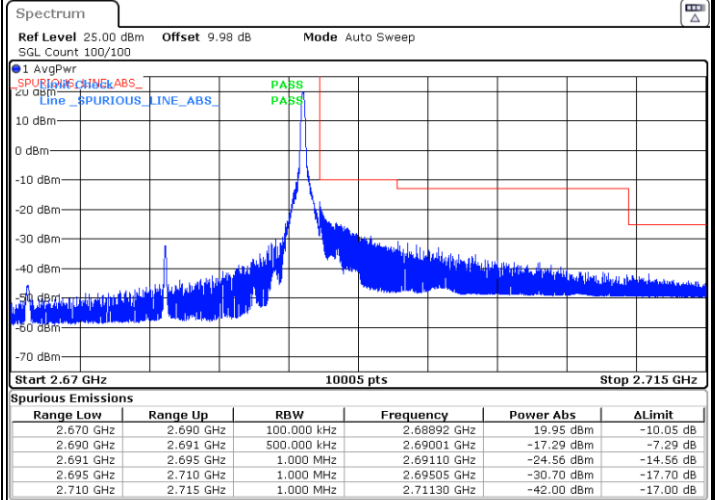
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



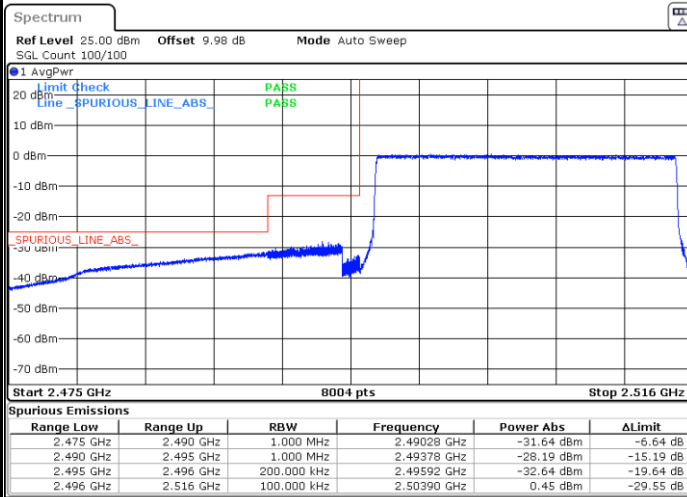
Date: 12 JUN 2022 19:22:57

Highest Band Edge / 1 RB



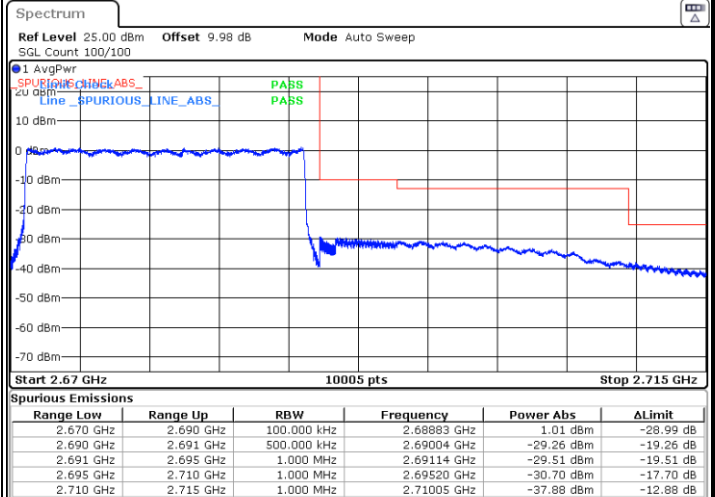
Date: 12 JUN 2022 19:38:12

Lowest Band Edge / Full RB



Date: 12 JUN 2022 19:27:59

Highest Band Edge / Full RB

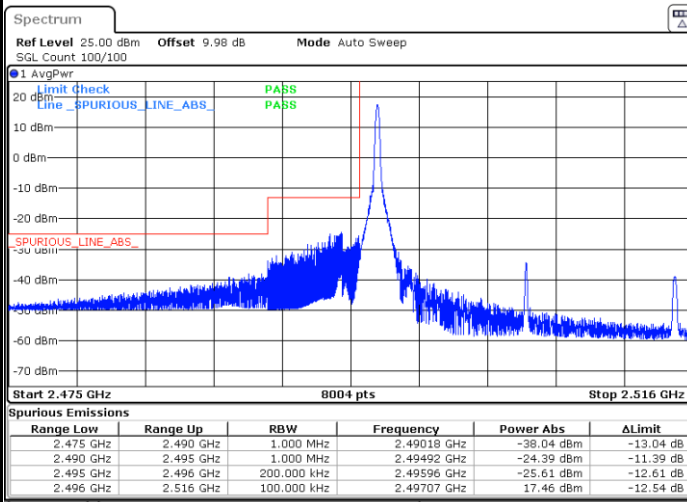


Date: 12 JUN 2022 19:43:21



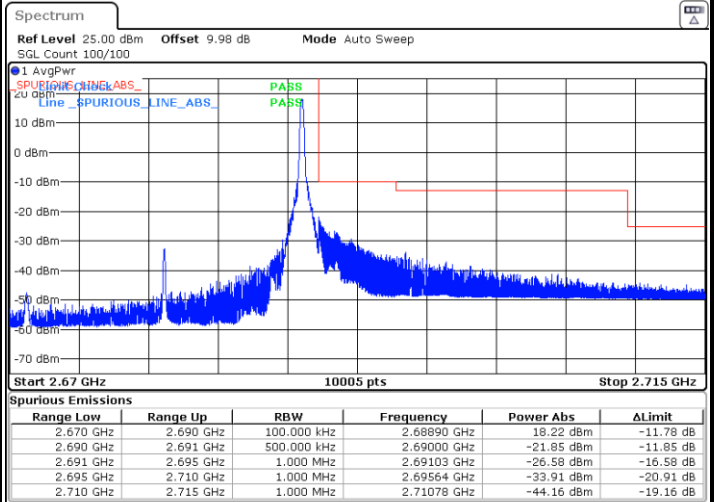
LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



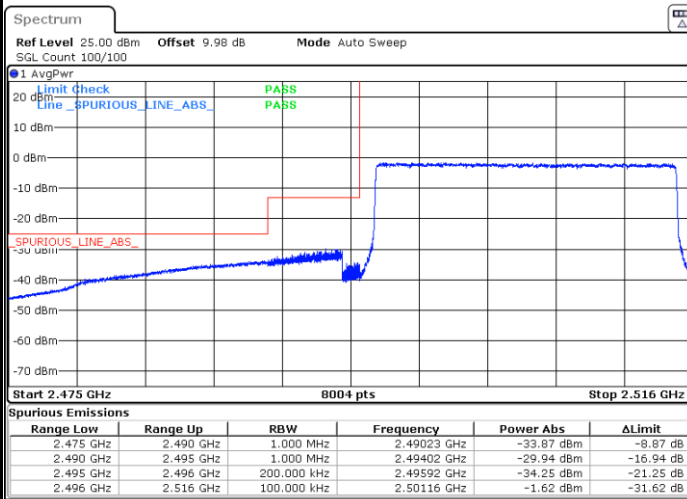
Date: 12 JUN 2022 19:24:10

Highest Band Edge / 1 RB



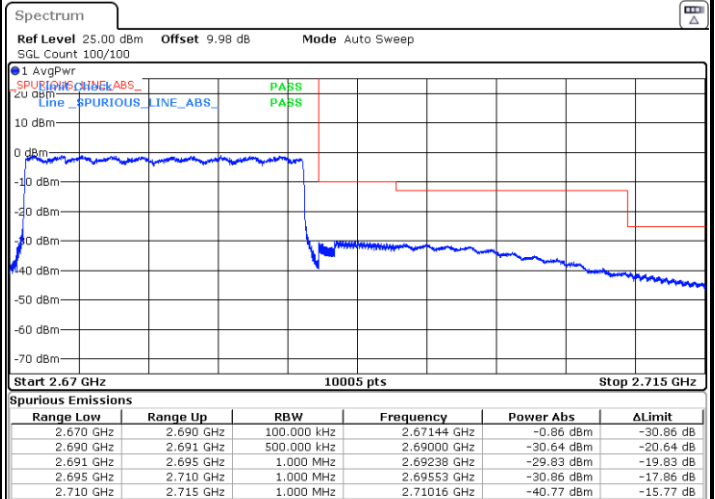
Date: 12 JUN 2022 19:39:25

Lowest Band Edge / Full RB



Date: 12 JUN 2022 19:26:43

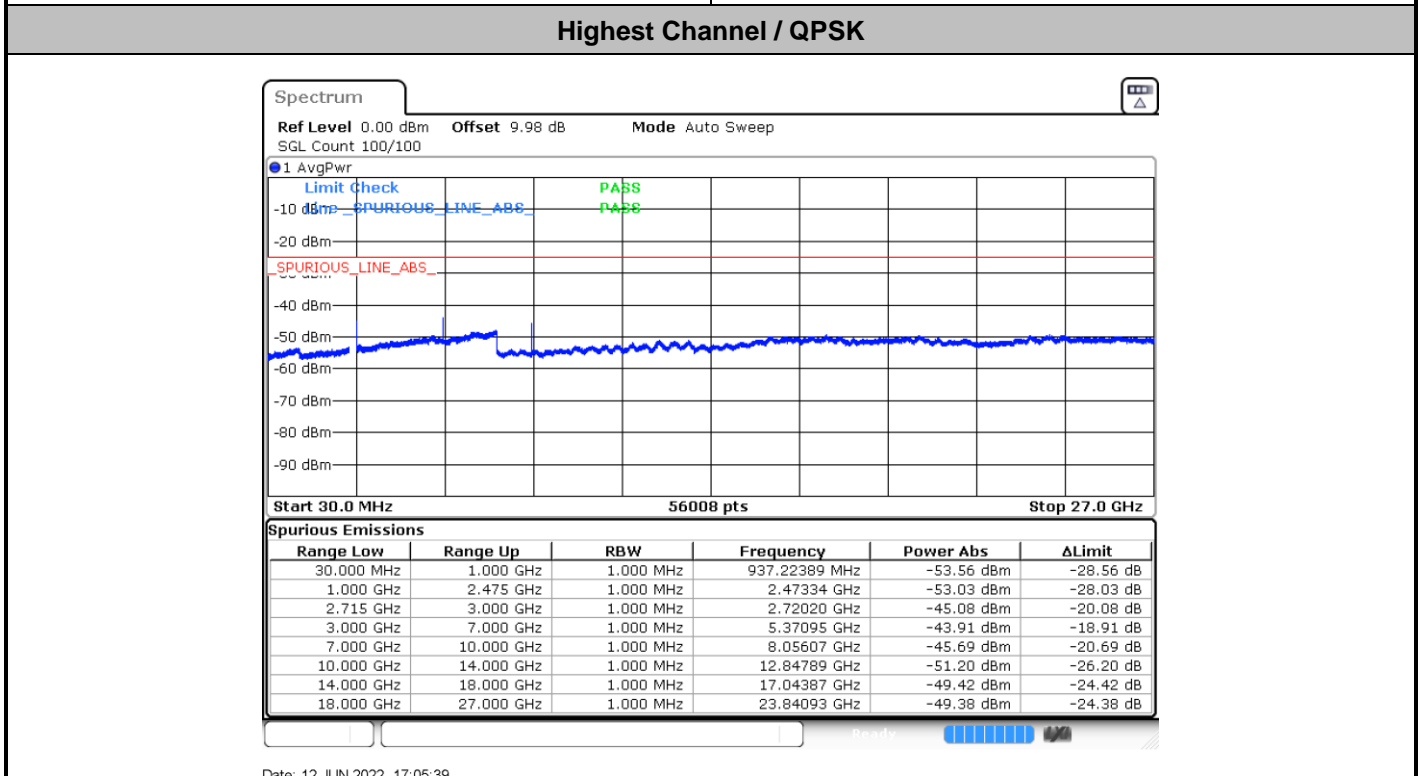
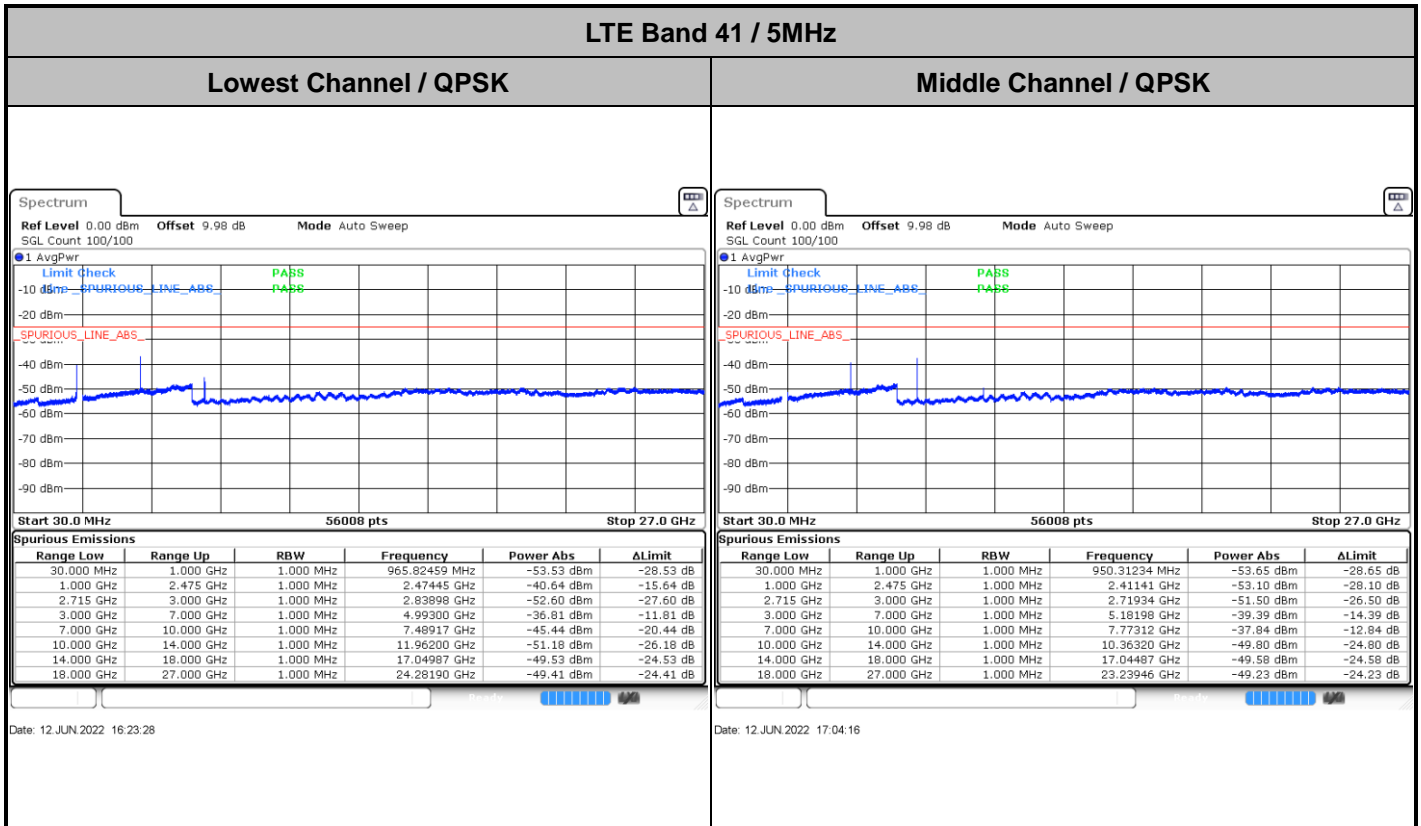
Highest Band Edge / Full RB



Date: 12 JUN 2022 19:42:08



# Conducted Spurious Emission

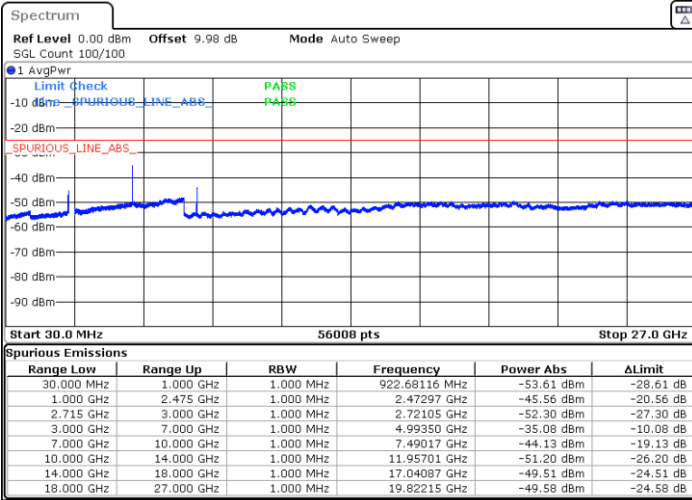




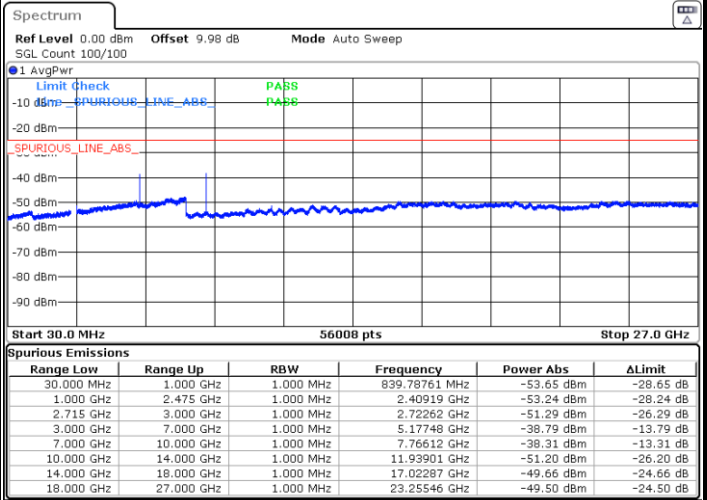
LTE Band 41 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

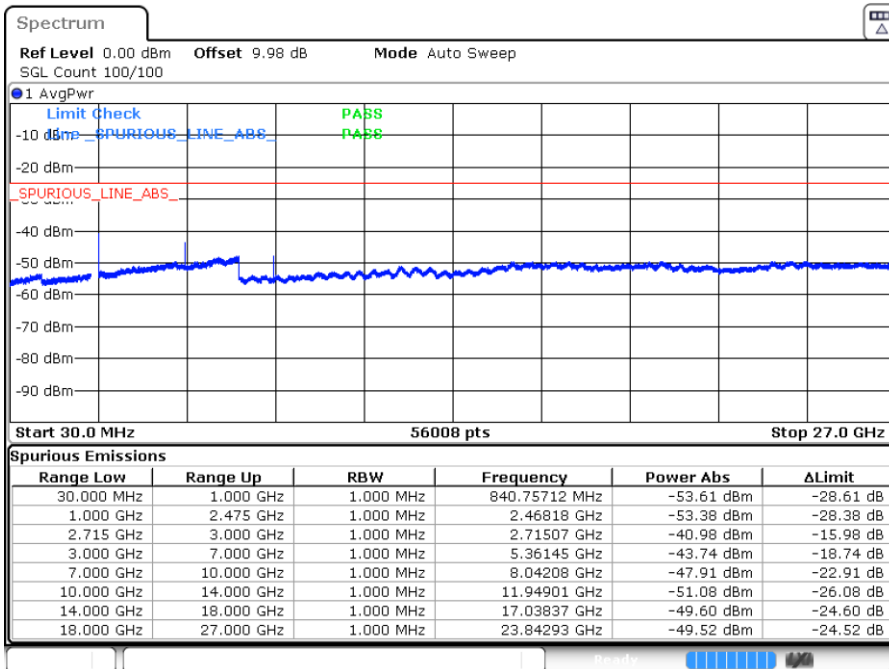


Date: 12 JUN 2022 17:31:40



Date: 12 JUN 2022 18:39:51

Highest Channel / QPSK

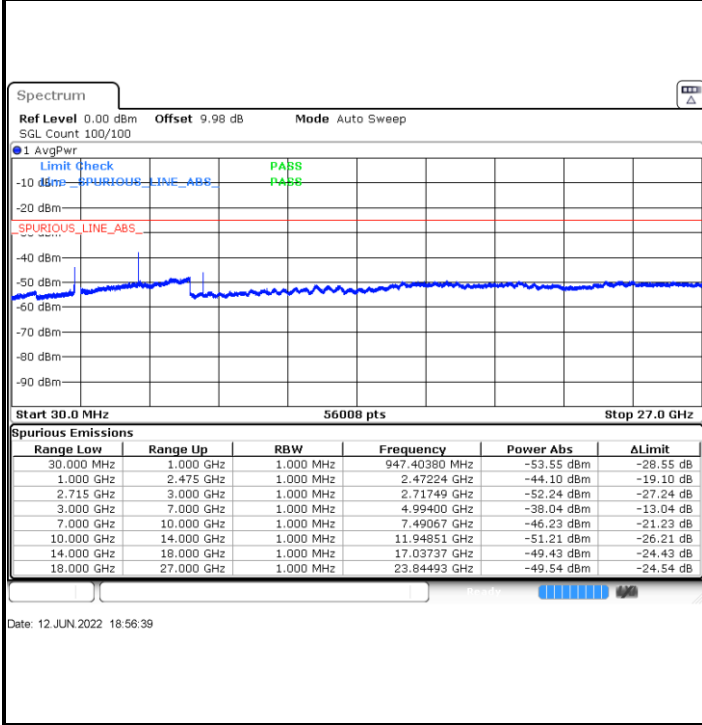


Date: 12 JUN 2022 18:41:14

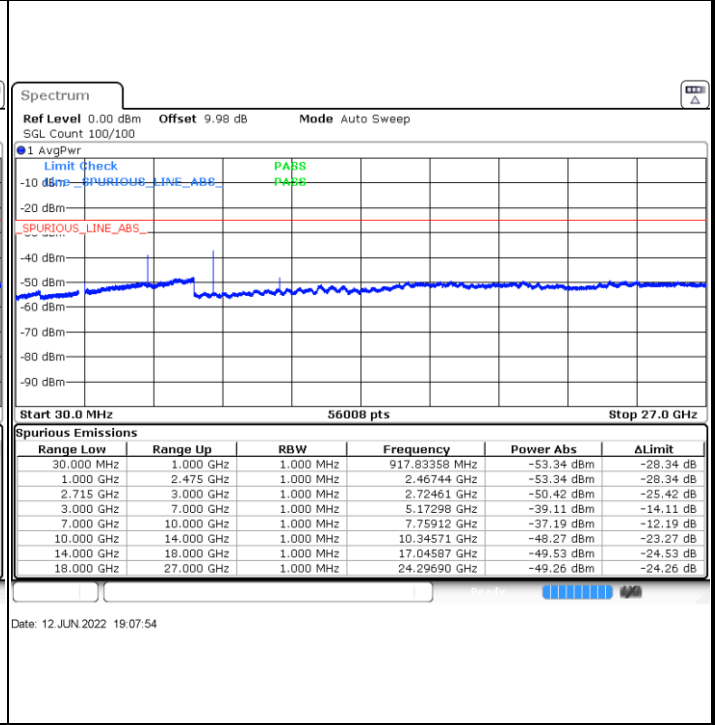


**LTE Band 41 / 15MHz**

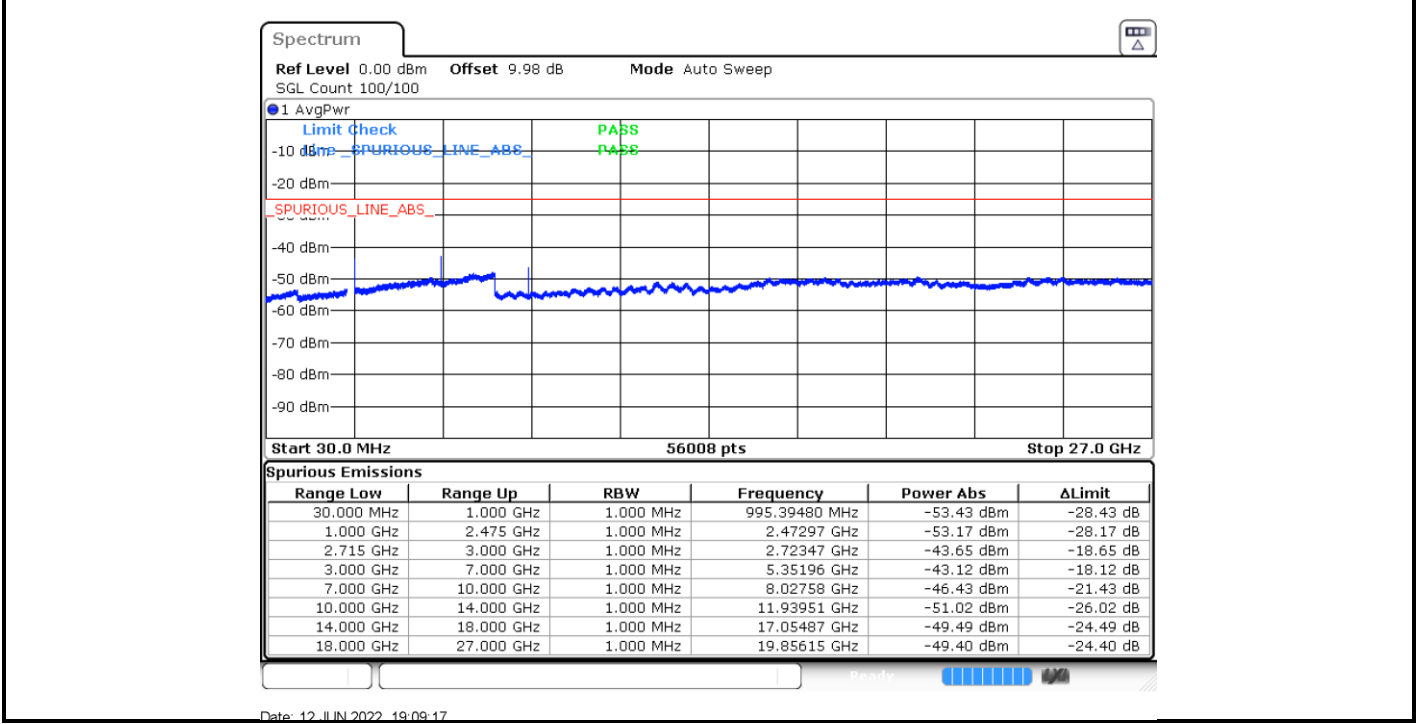
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

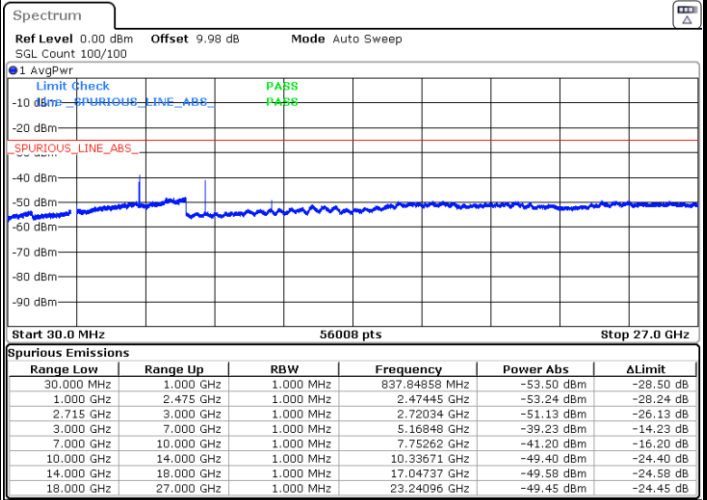
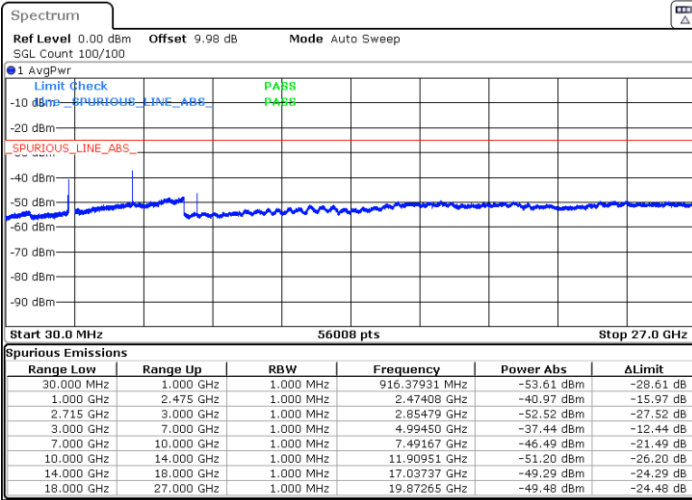




LTE Band 41 / 20MHz

Lowest Channel / QPSK

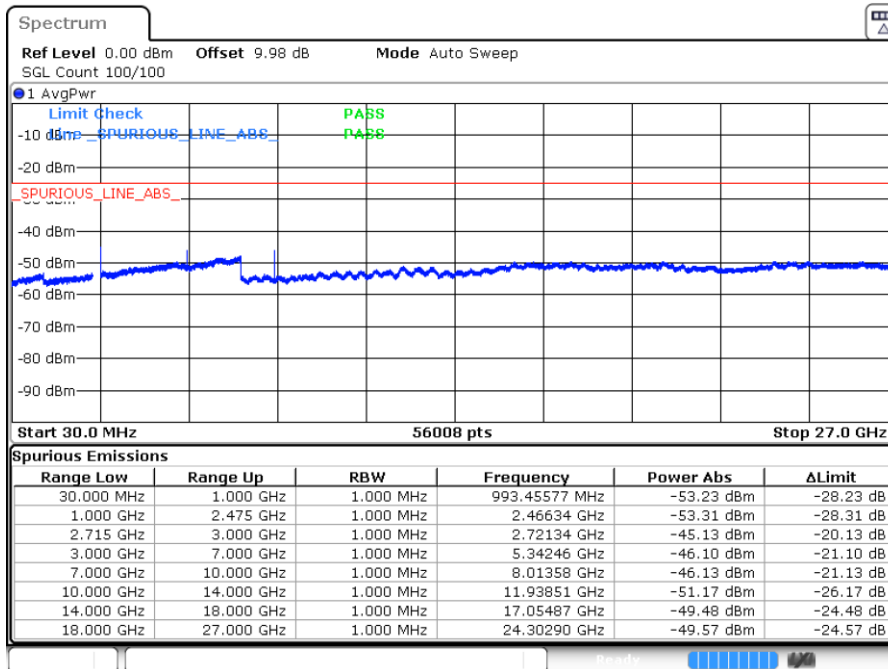
Middle Channel / QPSK



Date: 12 JUN 2022 19:59:43

Date: 12 JUN 2022 19:31:49

Highest Channel / QPSK



Date: 12 JUN 2022 19:33:12



### 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	0.0022	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0004	

**Note:**

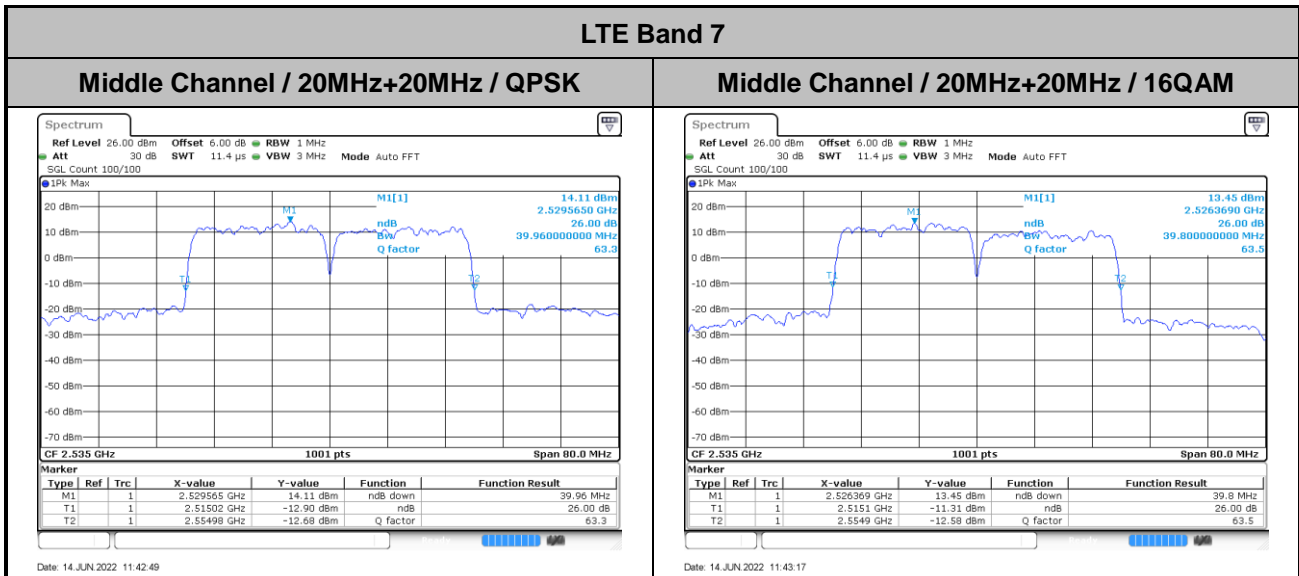
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 7C

## 26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)	
BW	20MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	39.96	39.80







# Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)	
BW	20MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	37.72	37.80

