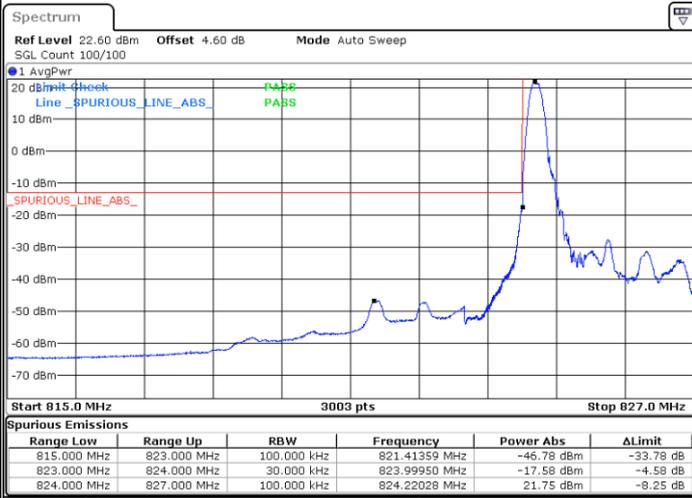




LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 20 AUG 2021 16:17:39



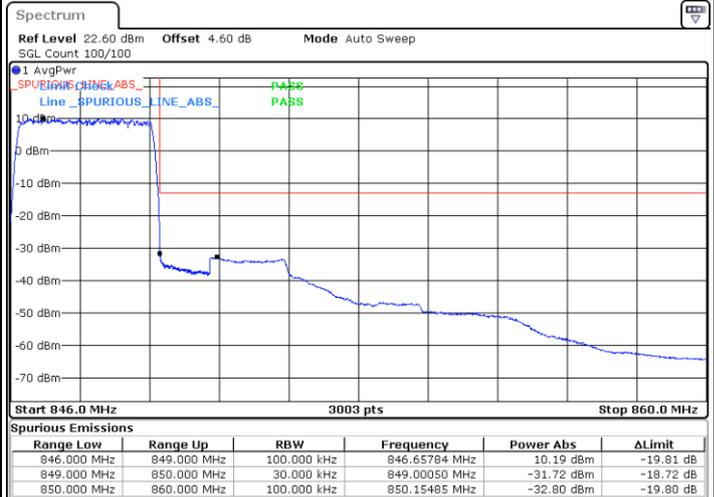
Date: 20 AUG 2021 16:28:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 20 AUG 2021 16:23:54

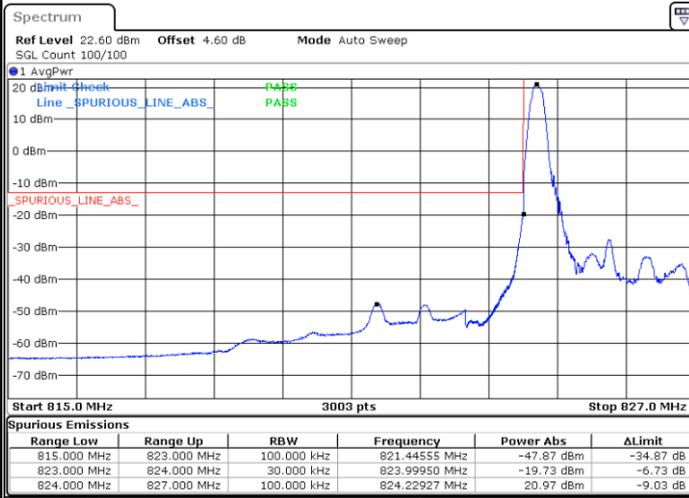


Date: 20 AUG 2021 16:35:05



LTE Band 5/ 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 20 AUG 2021 16:18:56

Highest Band Edge / 1 RB



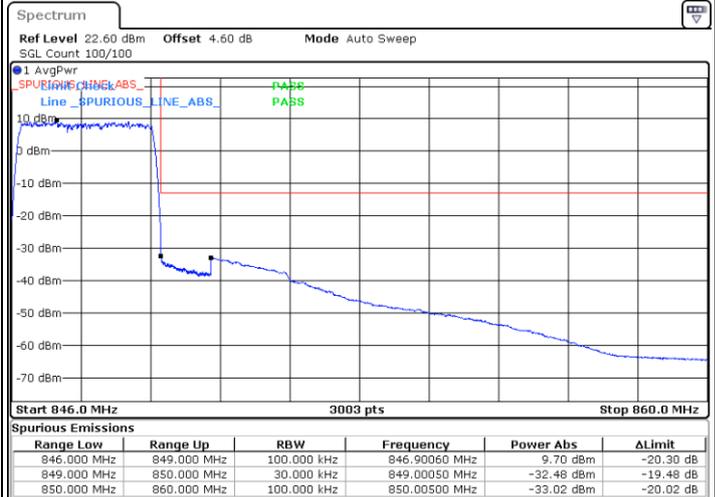
Date: 20 AUG 2021 16:29:41

Lowest Band Edge / Full RB



Date: 20 AUG 2021 16:22:37

Highest Band Edge / Full RB

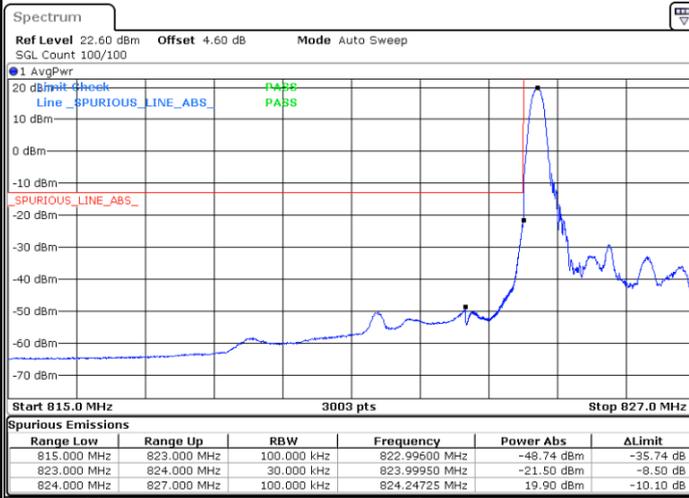


Date: 20 AUG 2021 16:33:48



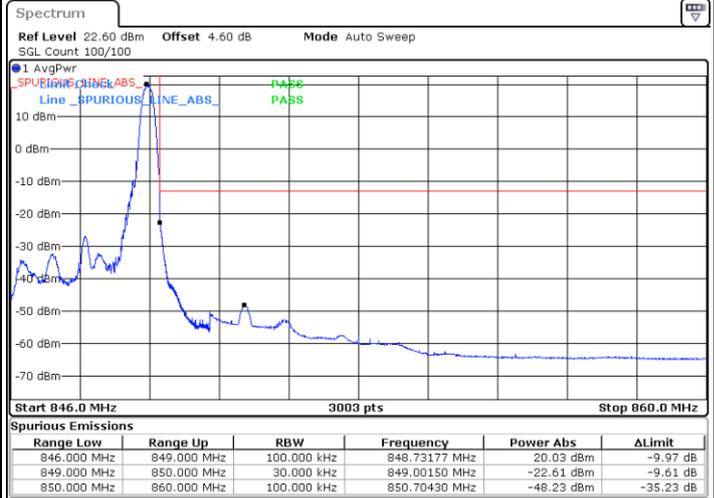
LTE Band 5/ 3MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 20 AUG 2021 16:20:01

Highest Band Edge / 1 RB



Date: 20 AUG 2021 16:30:56

Lowest Band Edge / Full RB



Date: 20 AUG 2021 16:21:24

Highest Band Edge / Full RB

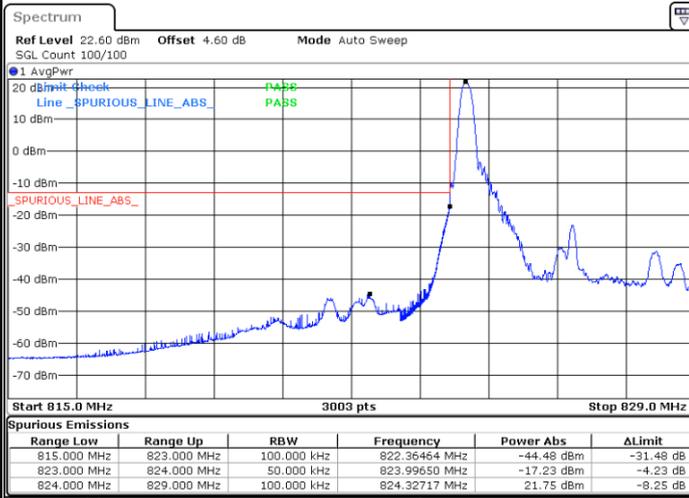


Date: 20 AUG 2021 16:32:23



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 20 AUG 2021 16:36:35

Highest Band Edge / 1 RB



Date: 20 AUG 2021 16:47:23

Lowest Band Edge / Full RB



Date: 20 AUG 2021 16:41:51

Highest Band Edge / Full RB

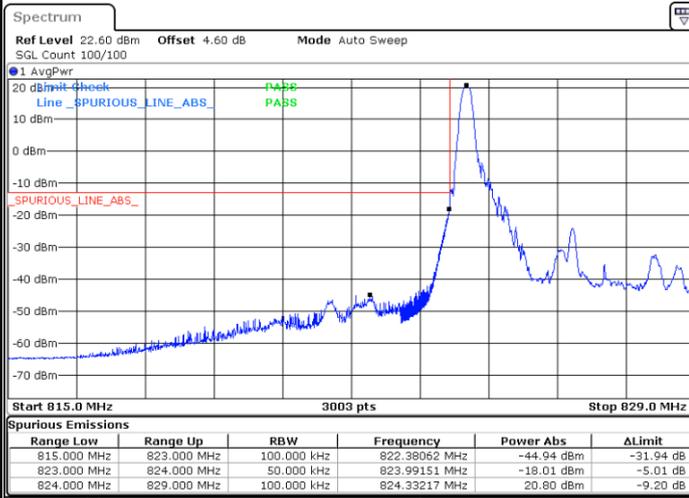


Date: 20 AUG 2021 16:52:44



LTE Band 5/ 5MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 20 AUG 2021 16:37:44

Highest Band Edge / 1 RB



Date: 20 AUG 2021 16:48:29

Lowest Band Edge / Full RB



Date: 20 AUG 2021 16:40:43

Highest Band Edge / Full RB

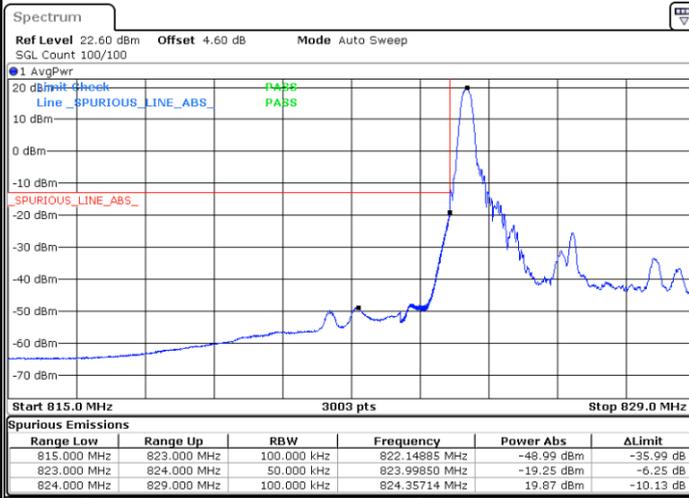


Date: 20 AUG 2021 16:51:45



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 20 AUG 2021 16:38:37

Highest Band Edge / 1 RB



Date: 20 AUG 2021 16:49:36

Lowest Band Edge / Full RB



Date: 20 AUG 2021 16:39:43

Highest Band Edge / Full RB

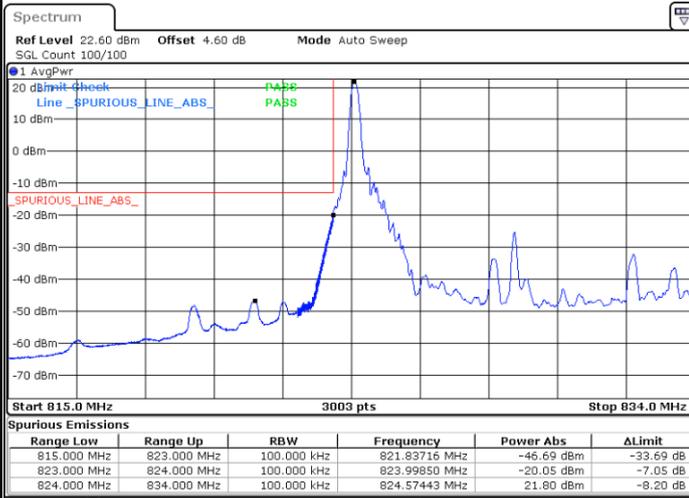


Date: 20 AUG 2021 16:50:48



LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



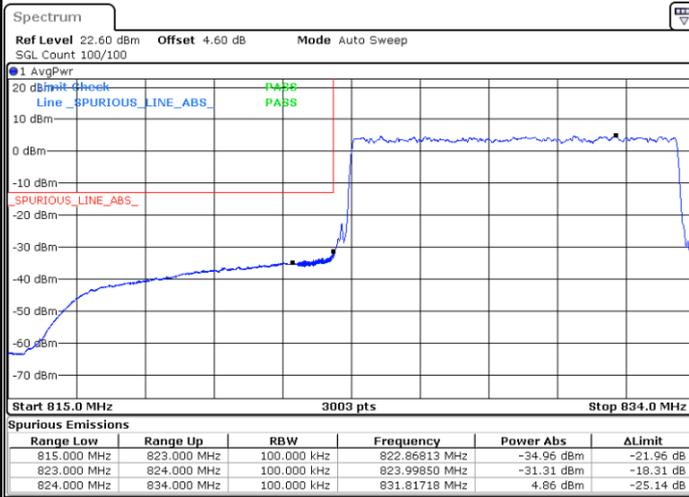
Date: 20 AUG 2021 17:00:45

Highest Band Edge / 1 RB



Date: 20 AUG 2021 17:17:39

Lowest Band Edge / Full RB



Date: 20 AUG 2021 17:07:54

Highest Band Edge / Full RB

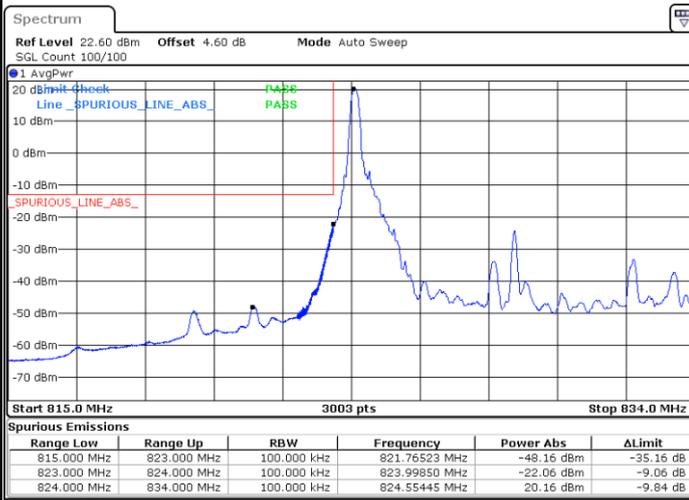


Date: 20 AUG 2021 17:26:32



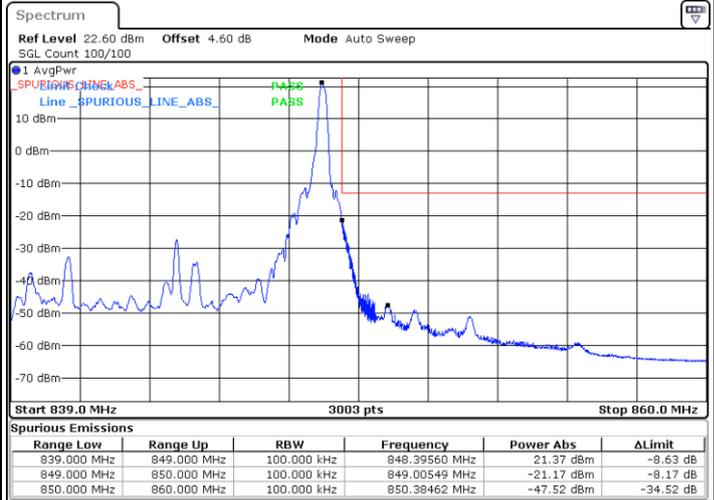
LTE Band 5/ 10MHz / 16QAM

Lowest Band Edge / 1 RB



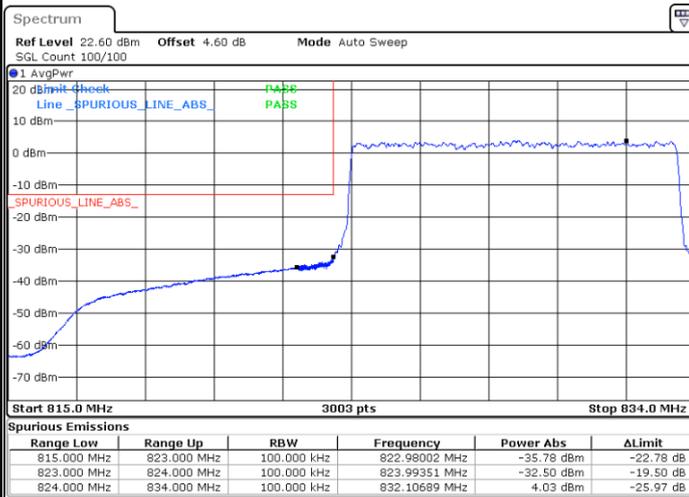
Date: 20 AUG 2021 17:03:39

Highest Band Edge / 1 RB



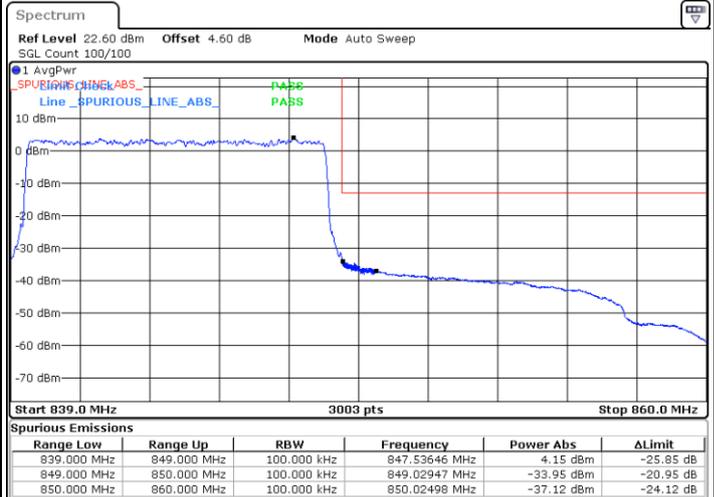
Date: 20 AUG 2021 17:19:10

Lowest Band Edge / Full RB



Date: 20 AUG 2021 17:07:06

Highest Band Edge / Full RB

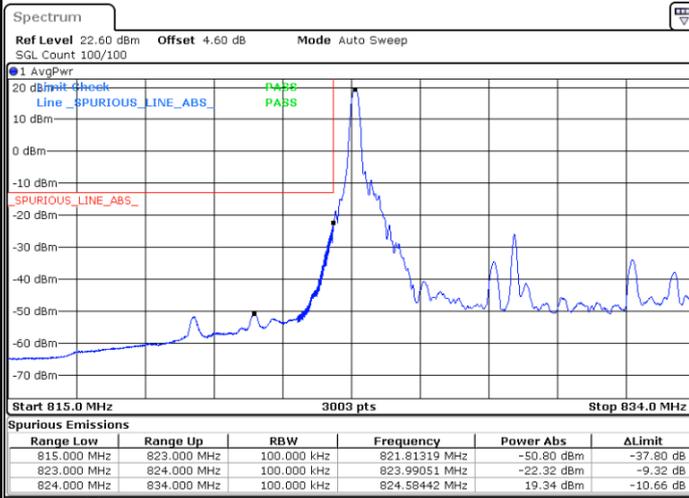


Date: 20 AUG 2021 17:25:30



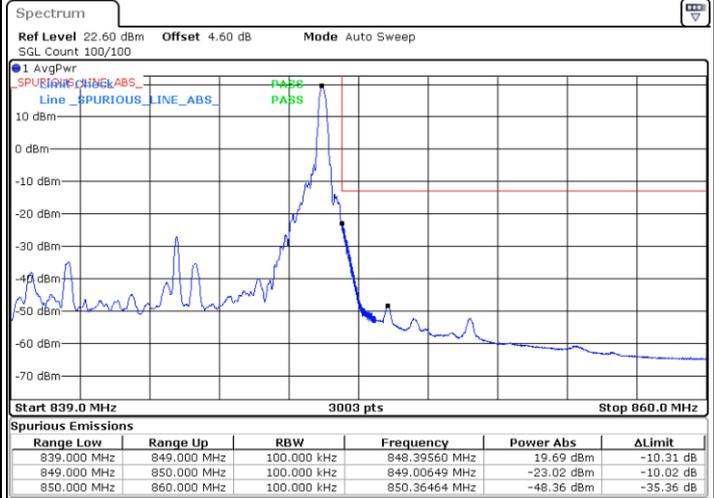
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



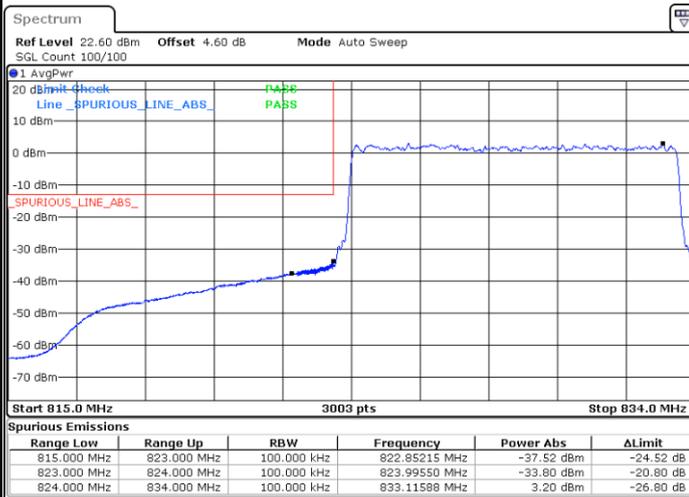
Date: 20 AUG 2021 17:04:45

Highest Band Edge / 1 RB



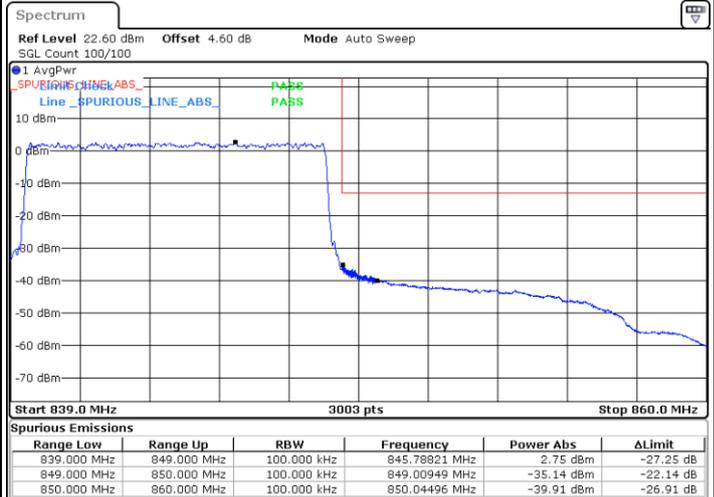
Date: 20 AUG 2021 17:20:03

Lowest Band Edge / Full RB



Date: 20 AUG 2021 17:06:08

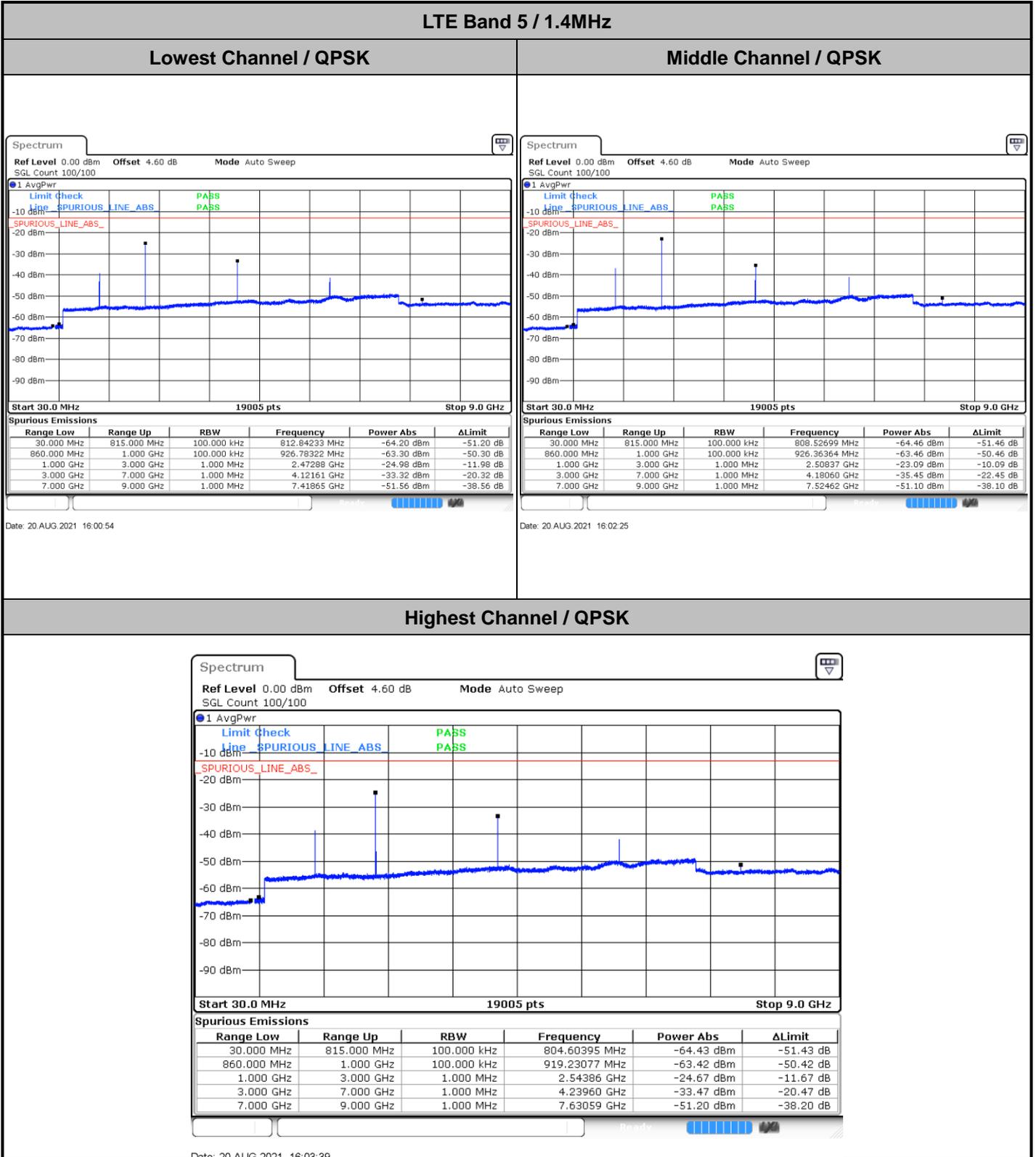
Highest Band Edge / Full RB



Date: 20 AUG 2021 17:24:15



# Conducted Spurious Emission

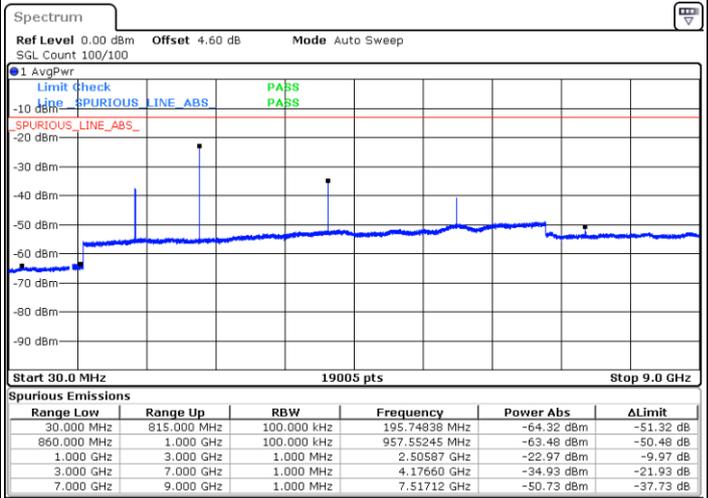
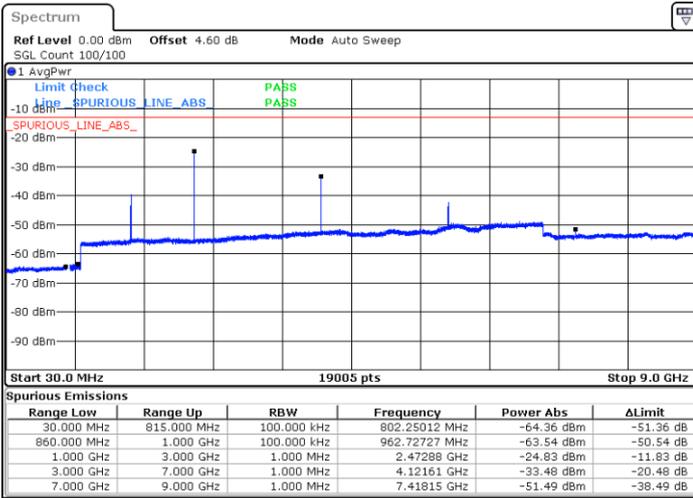




LTE Band 5 / 3MHz

Lowest Channel / QPSK

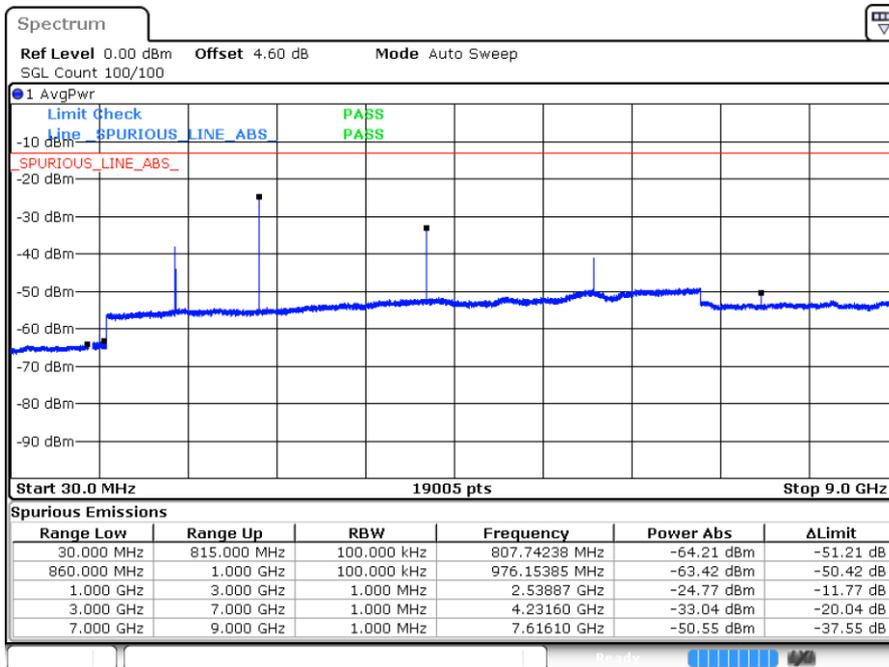
Middle Channel / QPSK



Date: 20 AUG 2021 16:24:58

Date: 20 AUG 2021 16:26:17

Highest Channel / QPSK



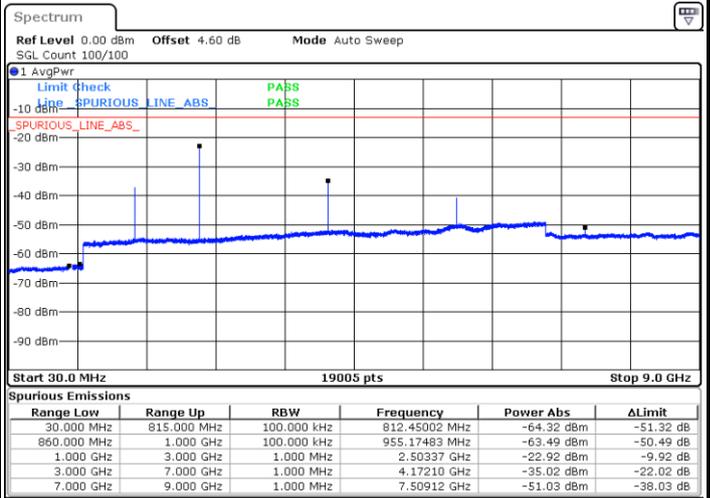
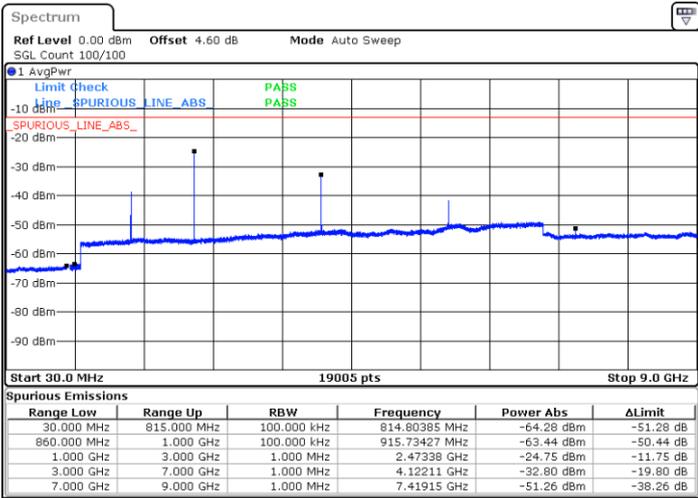
Date: 20 AUG 2021 16:27:08



LTE Band 5/ 5MHz

Lowest Channel / QPSK

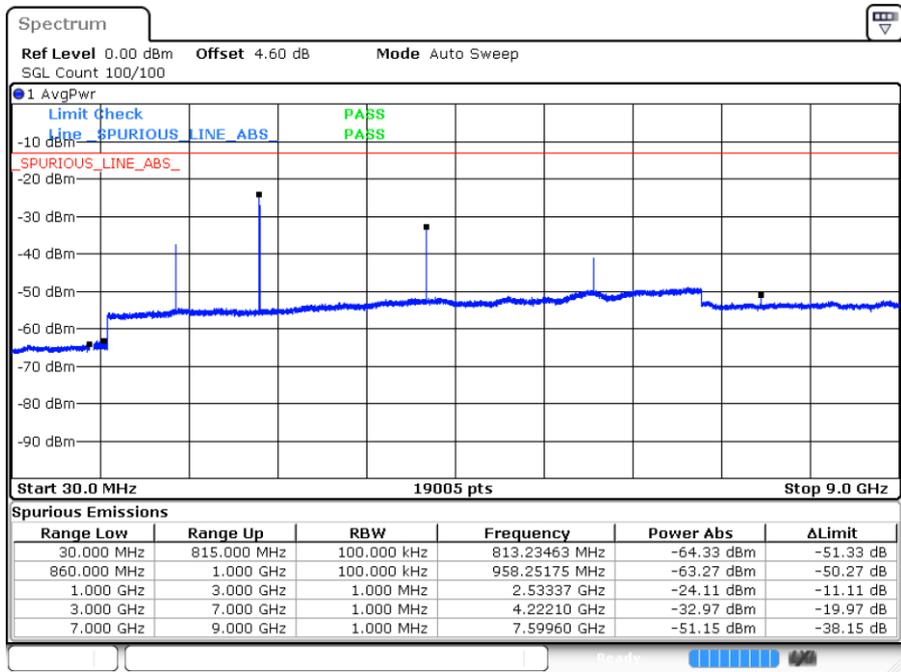
Middle Channel / QPSK



Date: 20 AUG 2021 16:42:54

Date: 20 AUG 2021 16:44:45

Highest Channel / QPSK



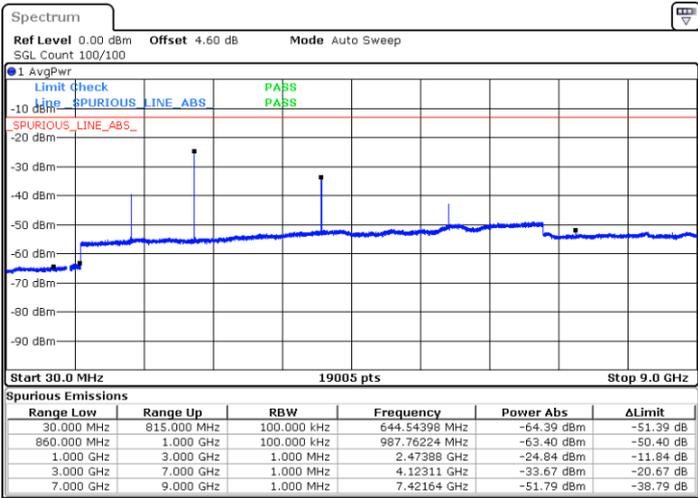
Date: 20 AUG 2021 16:46:03



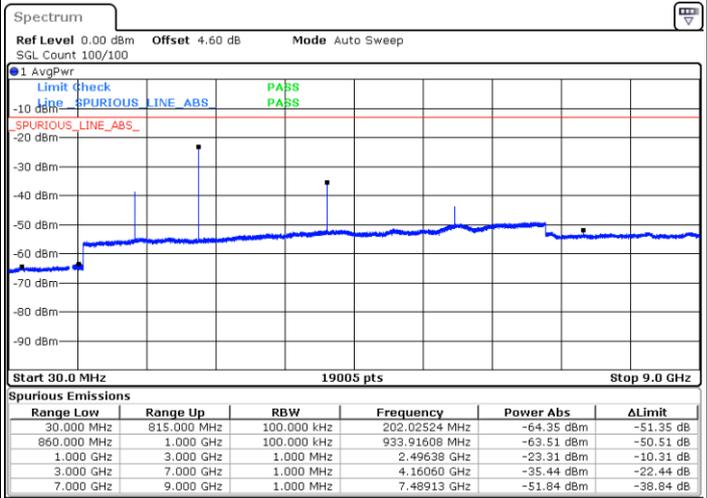
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

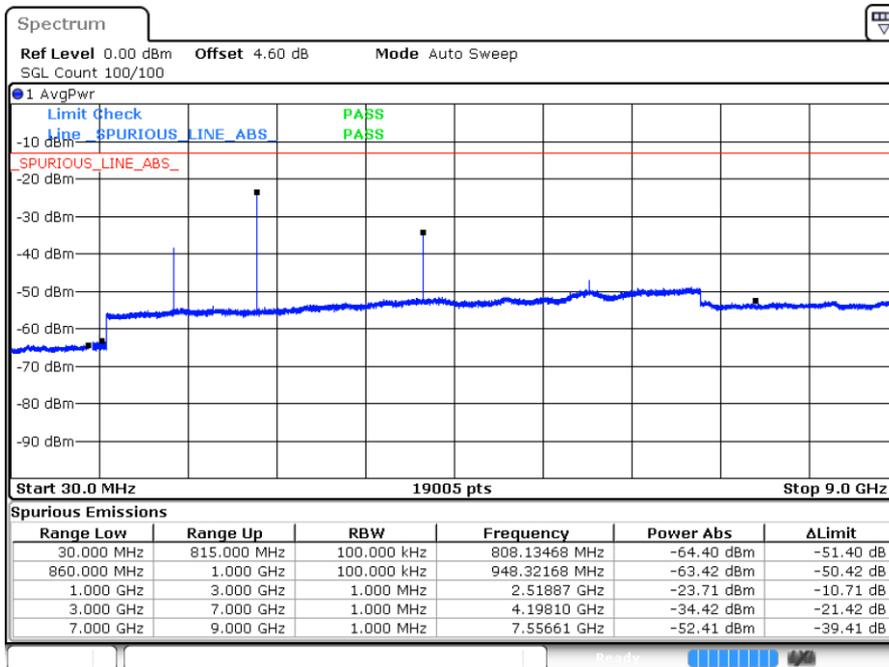


Date: 20 AUG 2021 17:08:53



Date: 20 AUG 2021 17:10:31

Highest Channel / QPSK



Date: 20 AUG 2021 17:16:23



**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

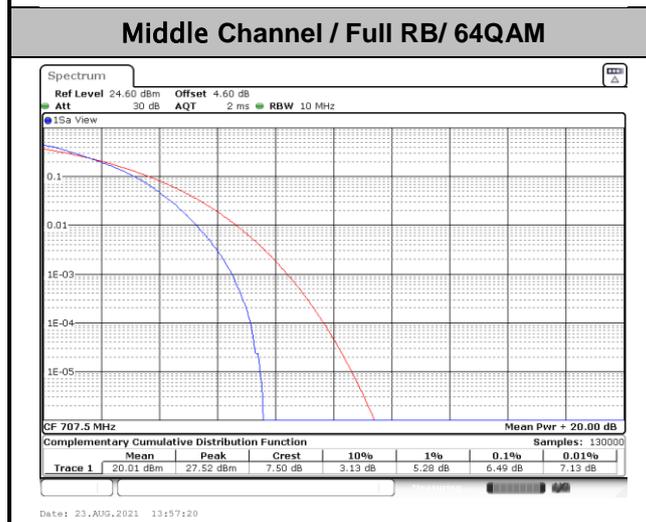
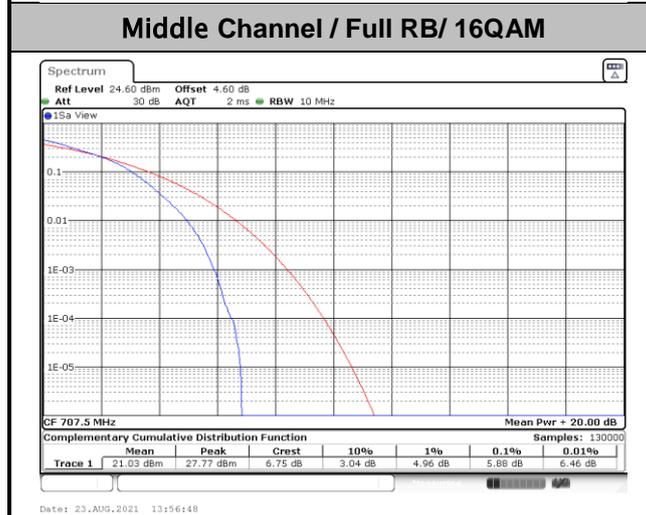
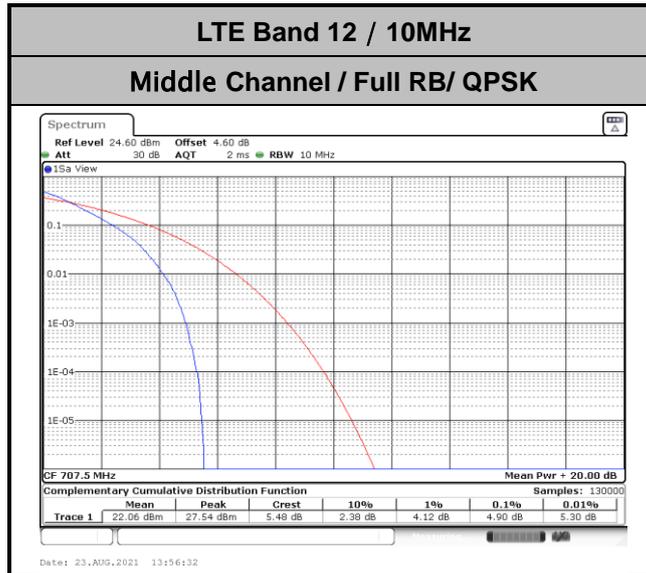
**Note:** Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.



## LTE Band 12

### Peak-to-Average Ratio

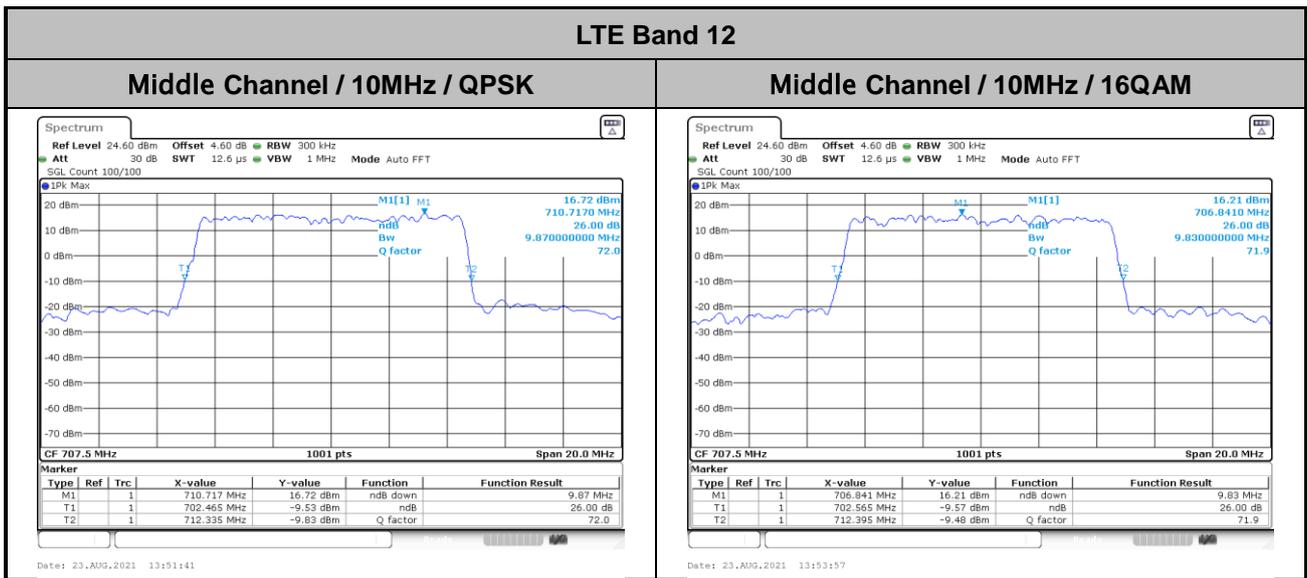
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.88	6.49	<b>PASS</b>





## 26dB Bandwidth

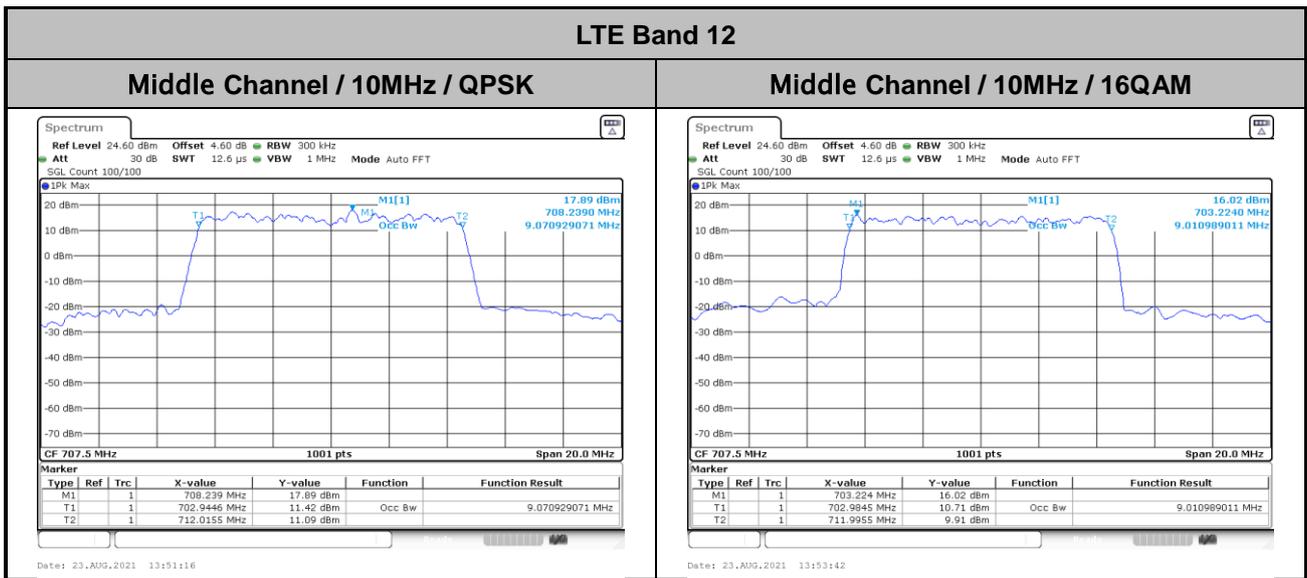
<b>Mode</b>	<b>LTE Band 12 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.87	9.83





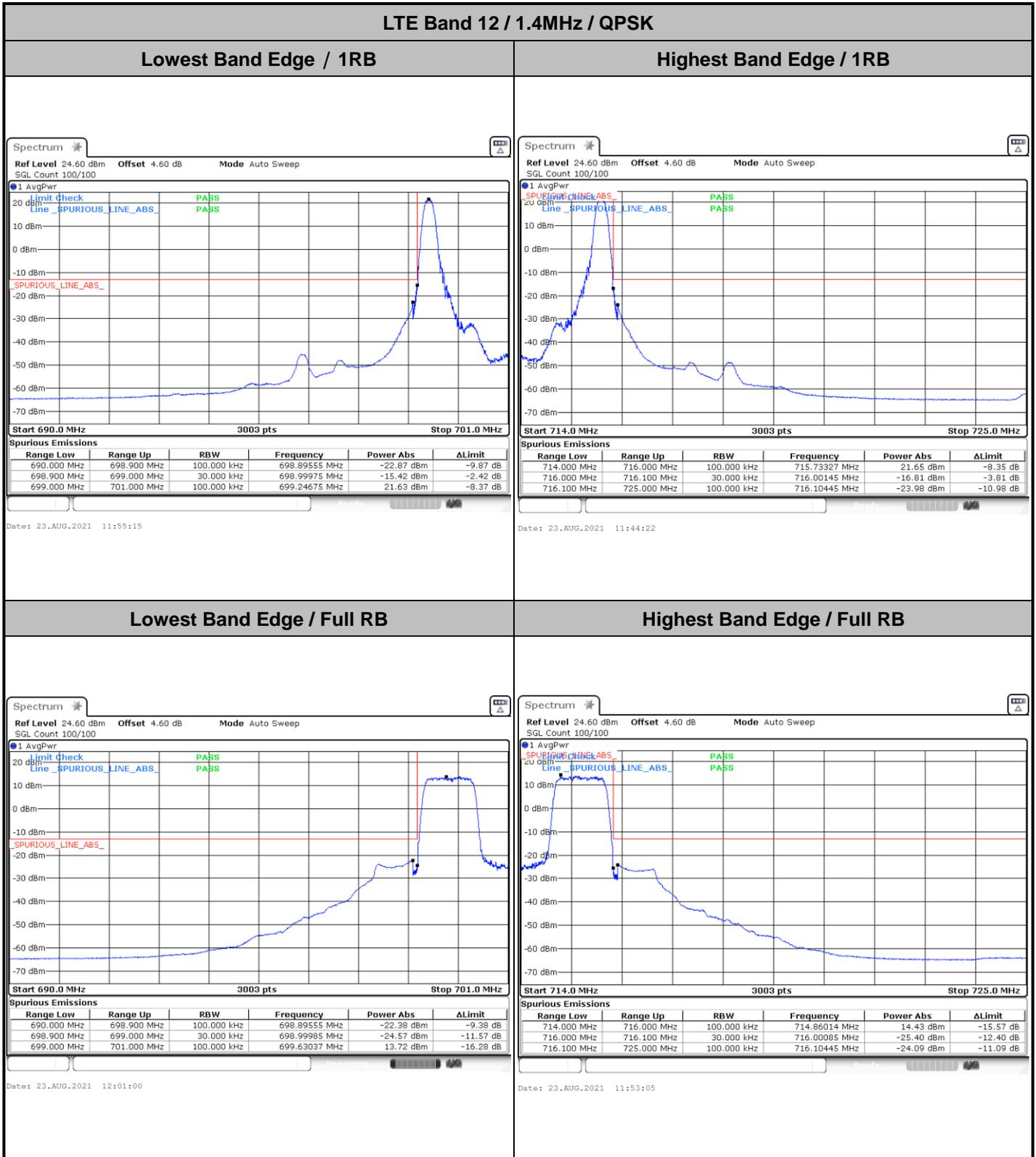
## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 12 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.07	9.01





# Conducted Band Edge

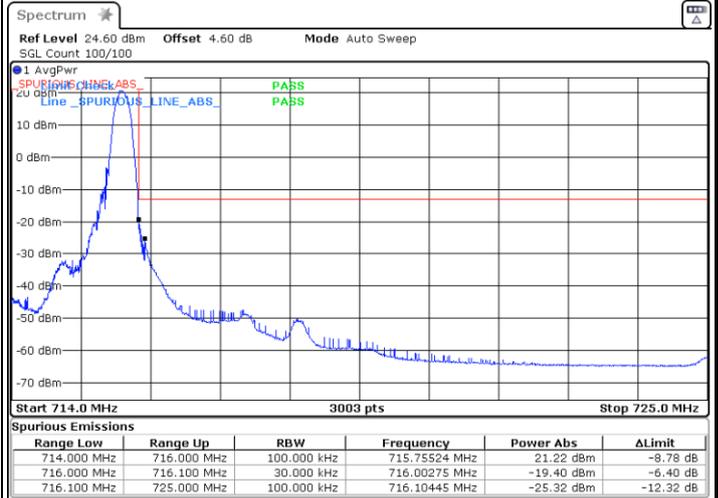




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

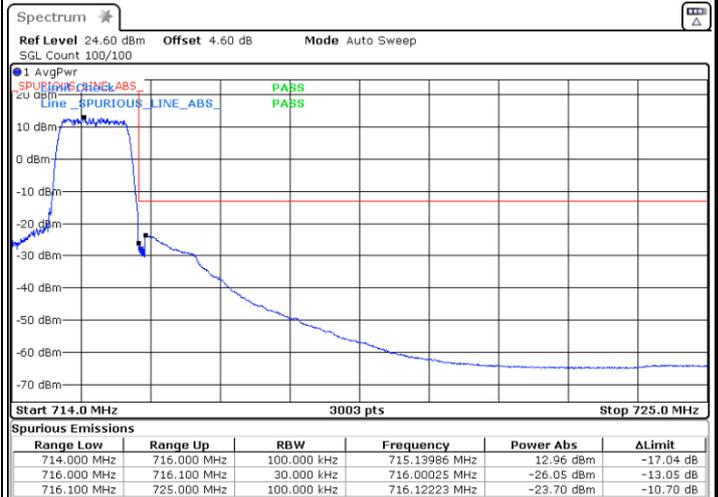


Date: 23.AUG.2021 11:56:10

Date: 23.AUG.2021 11:46:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.AUG.2021 11:59:16

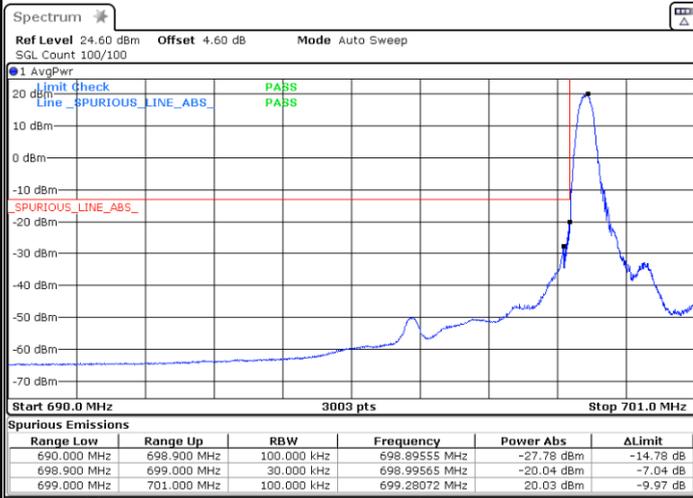
Date: 23.AUG.2021 11:51:36



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 23.AUG.2021 11:57:13

Date: 23.AUG.2021 11:47:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.AUG.2021 11:58:20

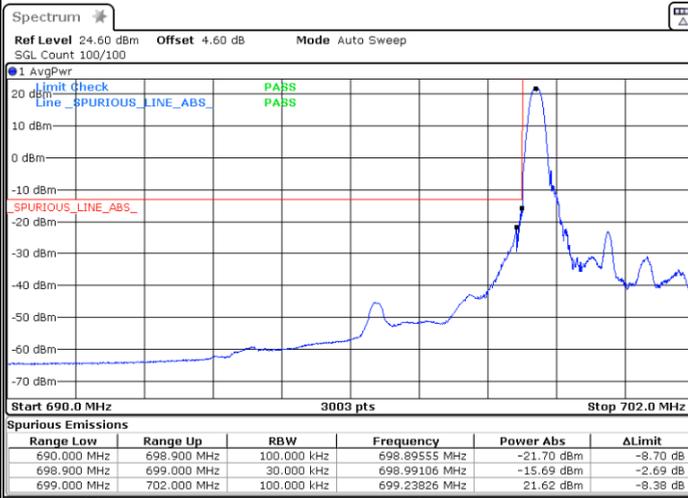
Date: 23.AUG.2021 11:49:34



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



Date: 23.AUG.2021 12:04:47

Date: 23.AUG.2021 13:17:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



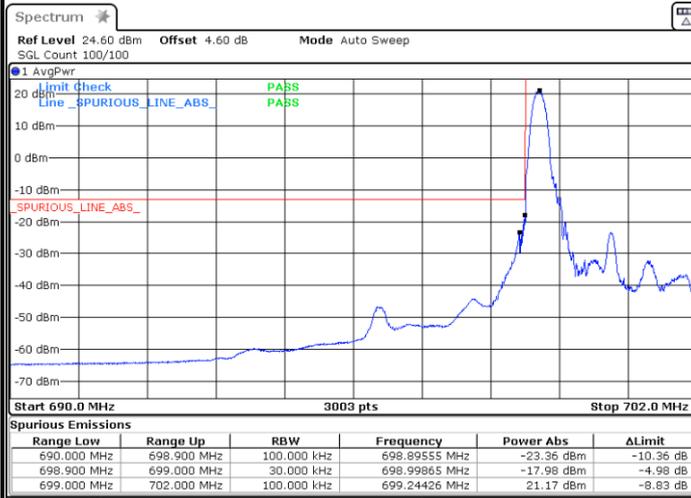
Date: 23.AUG.2021 12:11:46

Date: 23.AUG.2021 13:23:01



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 23.AUG.2021 12:07:03

Highest Band Edge / 1 RB



Date: 23.AUG.2021 13:18:31

Lowest Band Edge / Full RB



Date: 23.AUG.2021 12:10:28

Highest Band Edge / Full RB

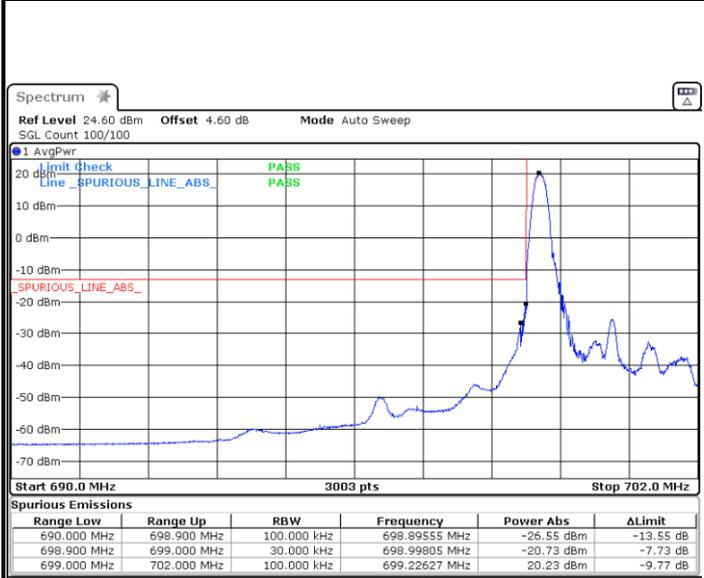


Date: 23.AUG.2021 13:22:07



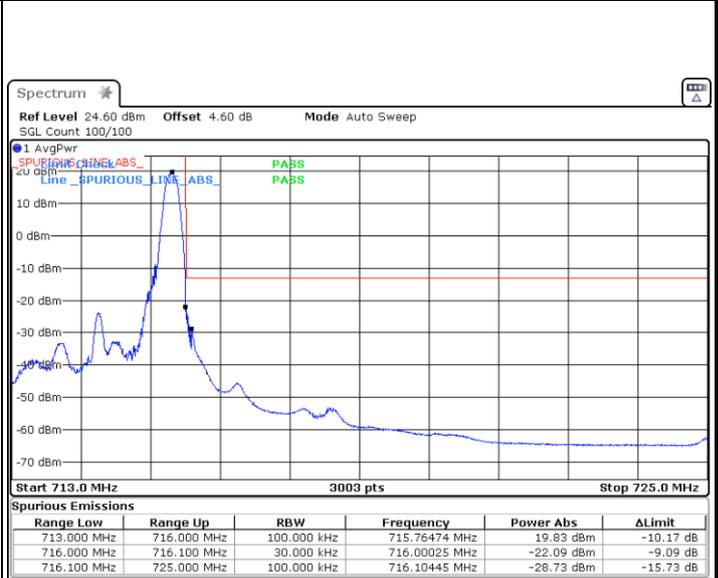
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



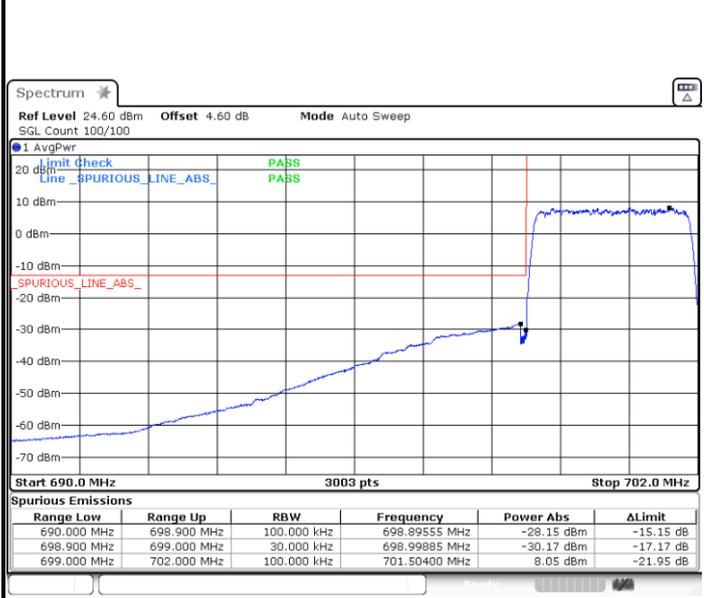
Date: 23.AUG.2021 12:08:11

Highest Band Edge / 1 RB



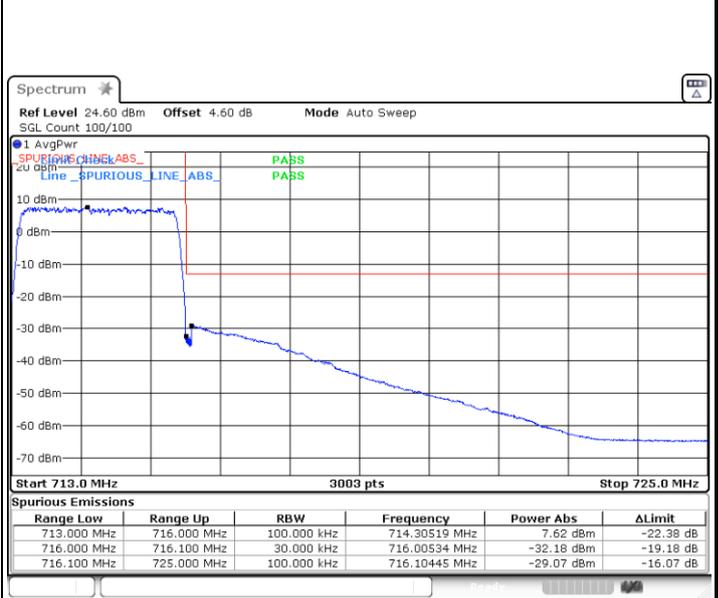
Date: 23.AUG.2021 13:19:46

Lowest Band Edge / Full RB



Date: 23.AUG.2021 12:09:34

Highest Band Edge / Full RB



Date: 23.AUG.2021 13:20:52



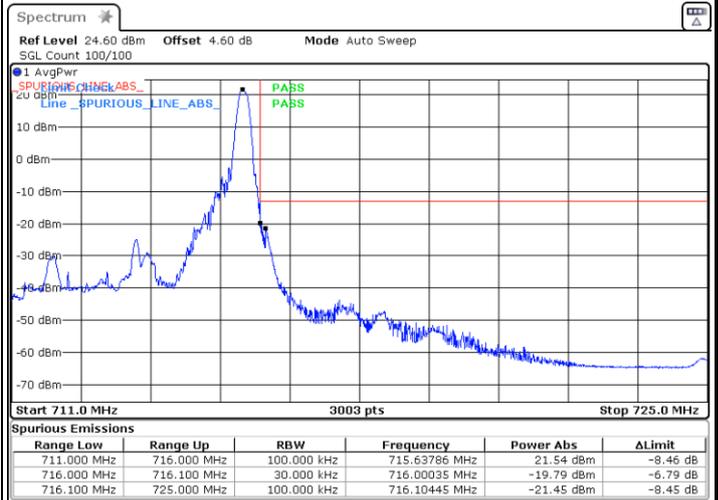
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



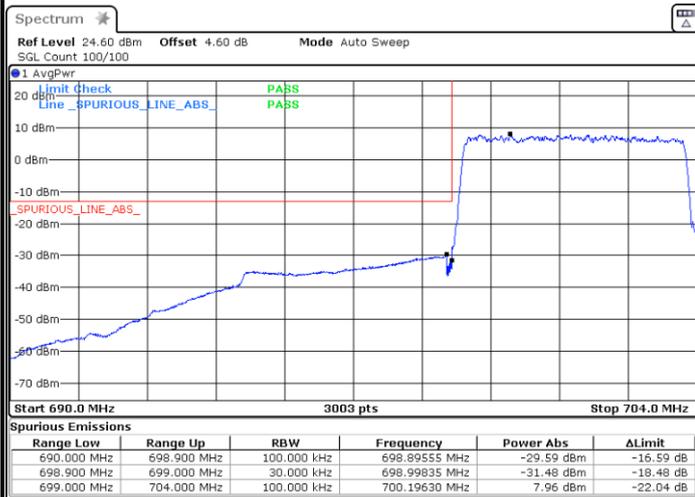
Date: 23.AUG.2021 13:25:43

Highest Band Edge / 1 RB



Date: 23.AUG.2021 13:35:19

Lowest Band Edge / Full RB



Date: 23.AUG.2021 13:31:11

Highest Band Edge / Full RB

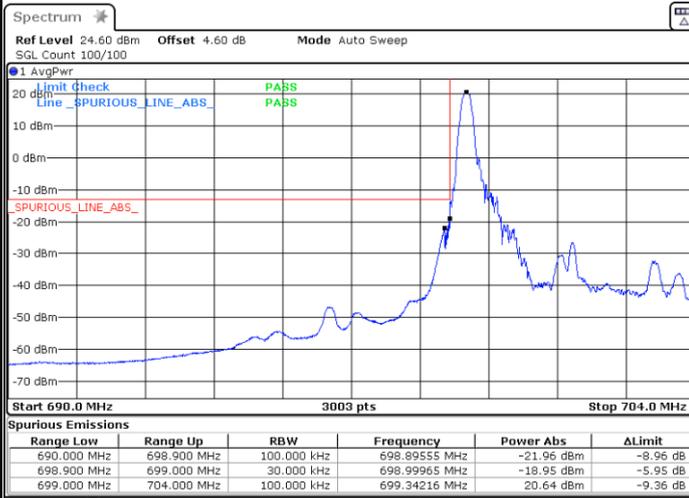


Date: 23.AUG.2021 13:42:01



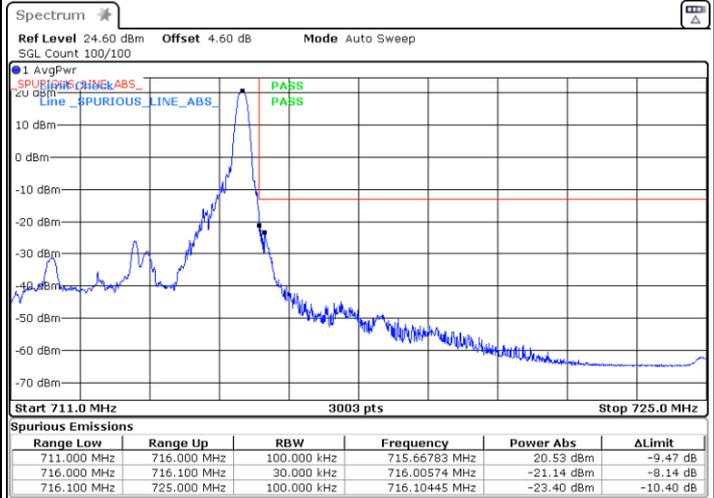
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



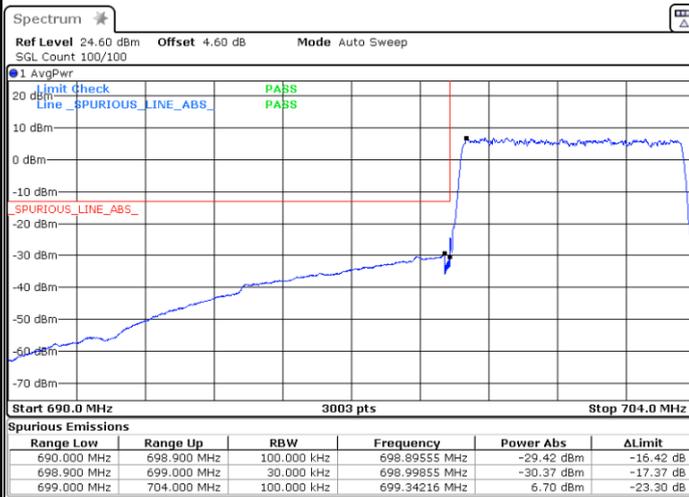
Date: 23.AUG.2021 13:26:38

Highest Band Edge / 1 RB



Date: 23.AUG.2021 13:36:24

Lowest Band Edge / Full RB



Date: 23.AUG.2021 13:29:58

Highest Band Edge / Full RB



Date: 23.AUG.2021 13:39:54



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



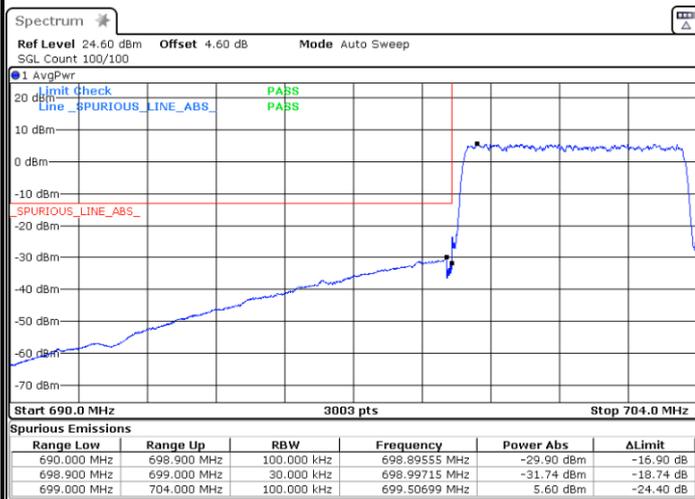
Date: 23.AUG.2021 13:27:28

Highest Band Edge / 1 RB



Date: 23.AUG.2021 13:37:19

Lowest Band Edge / Full RB



Date: 23.AUG.2021 13:28:56

Highest Band Edge / Full RB

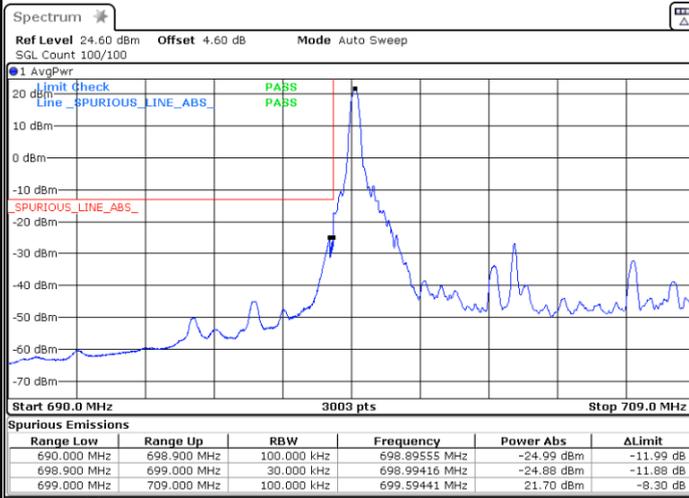


Date: 23.AUG.2021 13:38:41

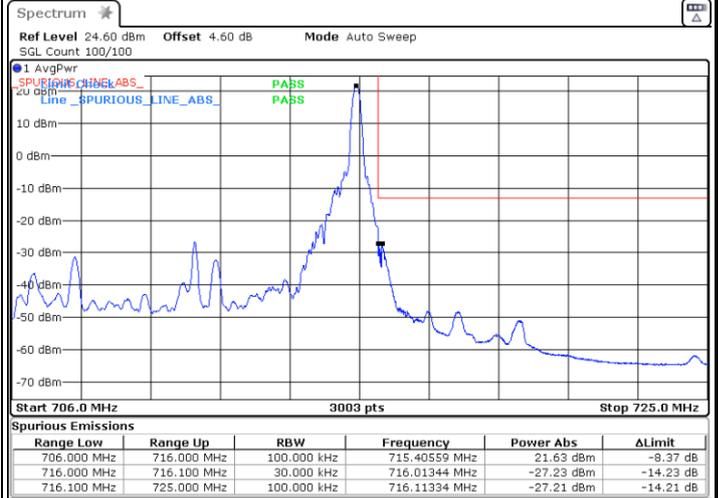


LTE Band 12 / 10MHz / QPSK

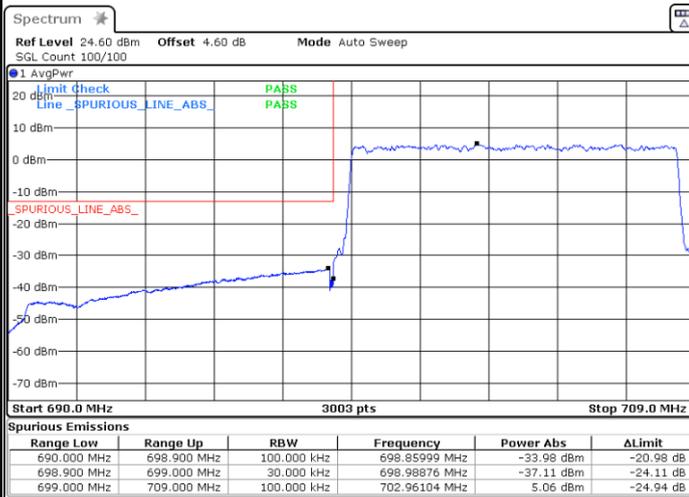
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



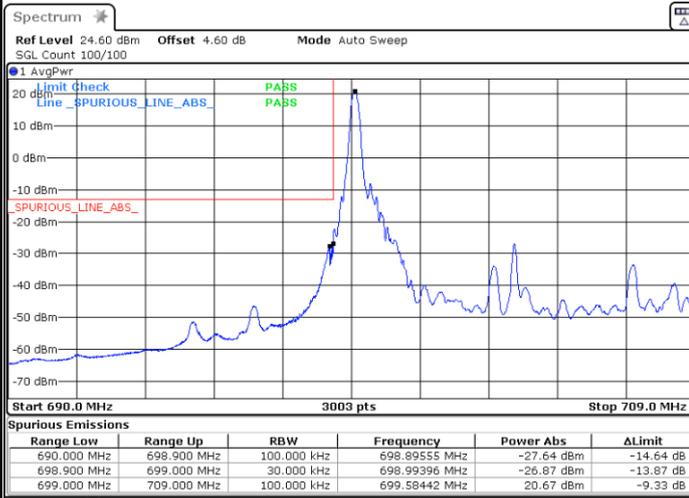
Highest Band Edge / Full RB





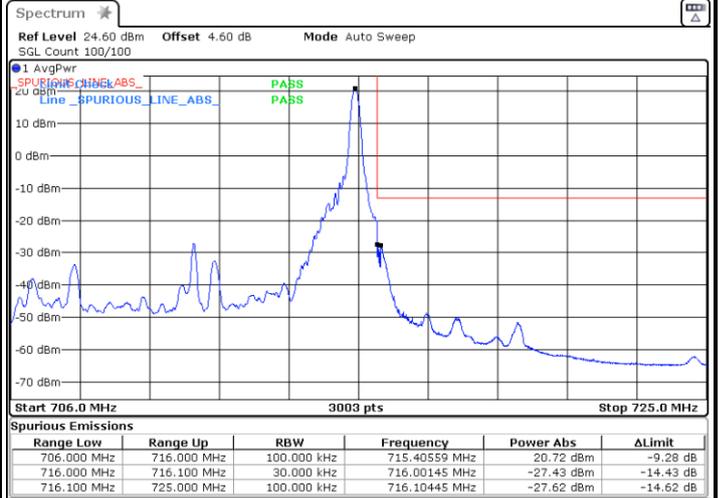
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



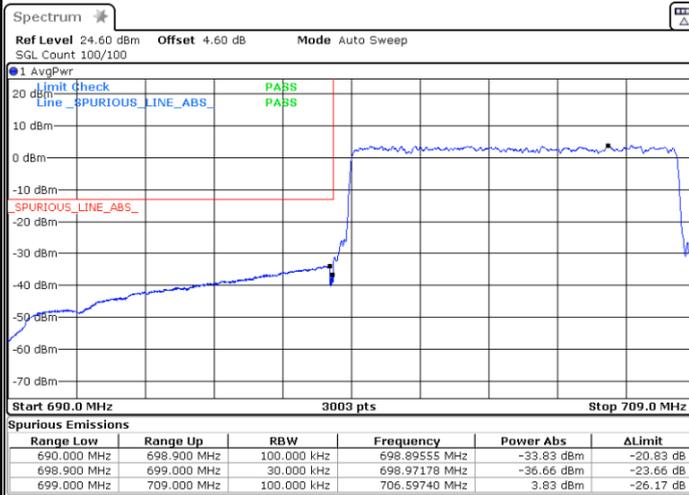
Date: 23.AUG.2021 13:46:04

Highest Band Edge / 1 RB



Date: 23.AUG.2021 14:01:55

Lowest Band Edge / Full RB



Date: 23.AUG.2021 13:49:13

Highest Band Edge / Full RB



Date: 23.AUG.2021 14:05:01