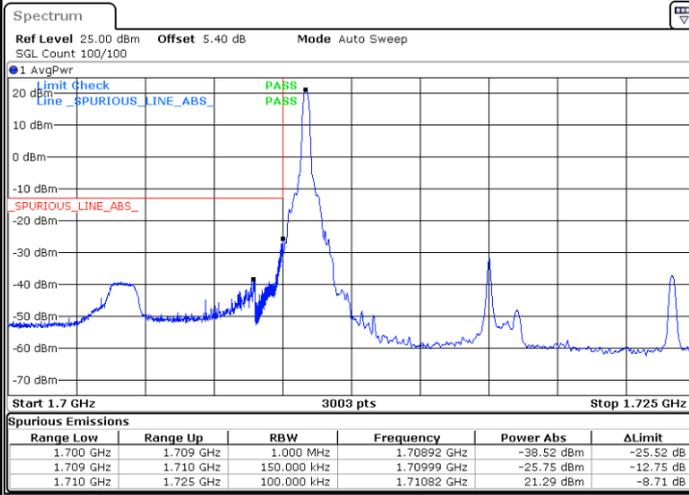




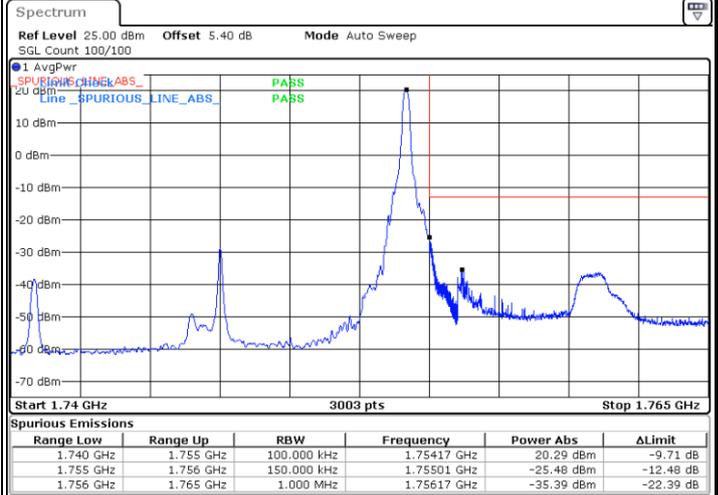
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



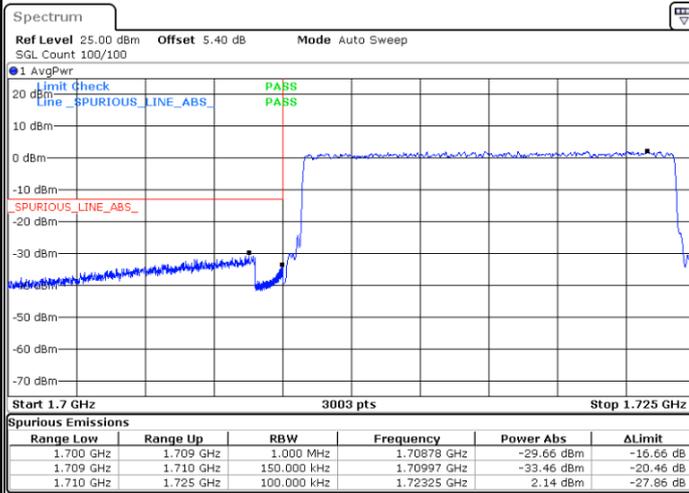
Date: 12.JUL.2022 18:45:19

Highest Band Edge / 1 RB



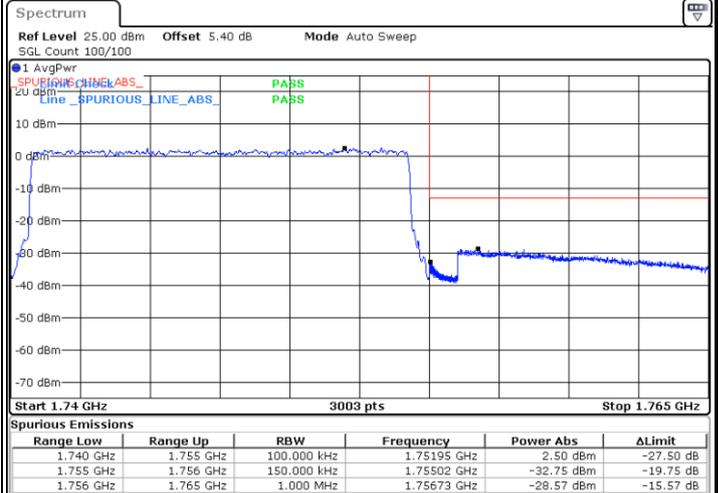
Date: 12.JUL.2022 18:55:43

Lowest Band Edge / Full RB



Date: 12.JUL.2022 18:49:04

Highest Band Edge / Full RB

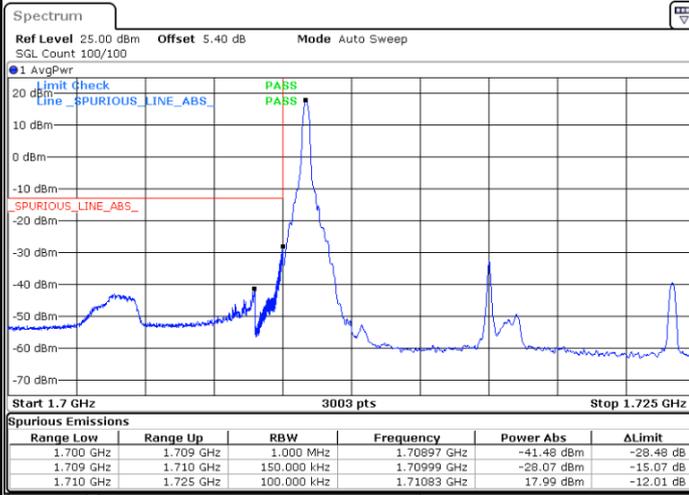


Date: 12.JUL.2022 18:59:27



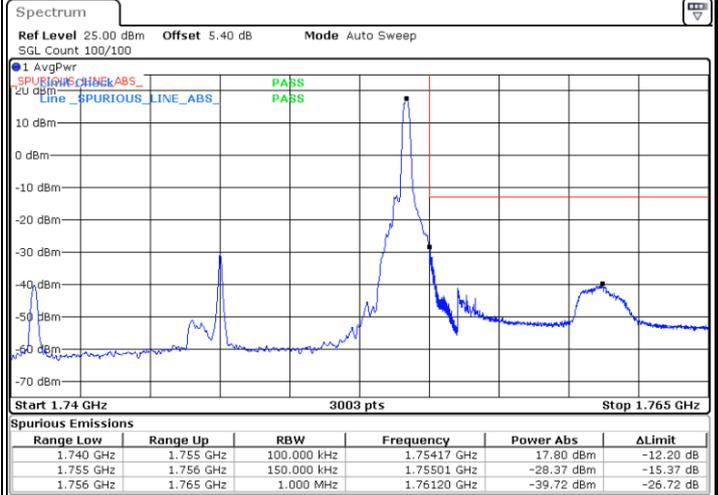
LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



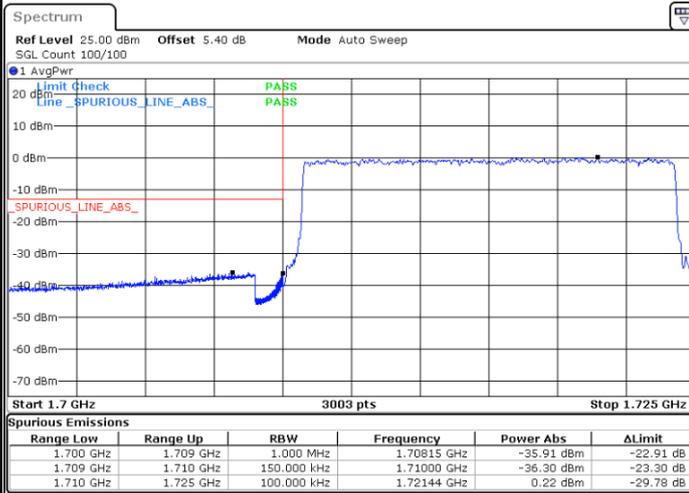
Date: 12.JUL.2022 18:46:15

Highest Band Edge / 1 RB



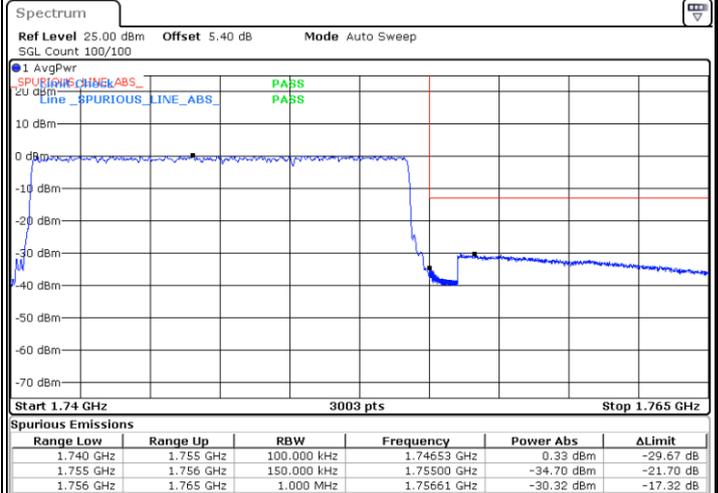
Date: 12.JUL.2022 18:56:40

Lowest Band Edge / Full RB



Date: 12.JUL.2022 18:50:00

Highest Band Edge / Full RB

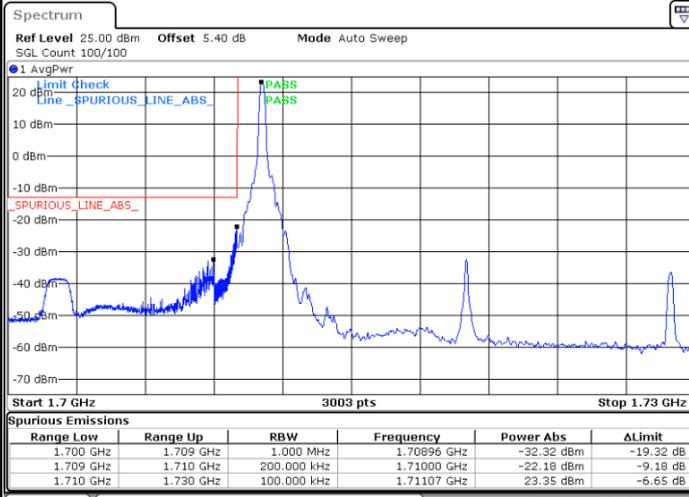


Date: 12.JUL.2022 19:00:25



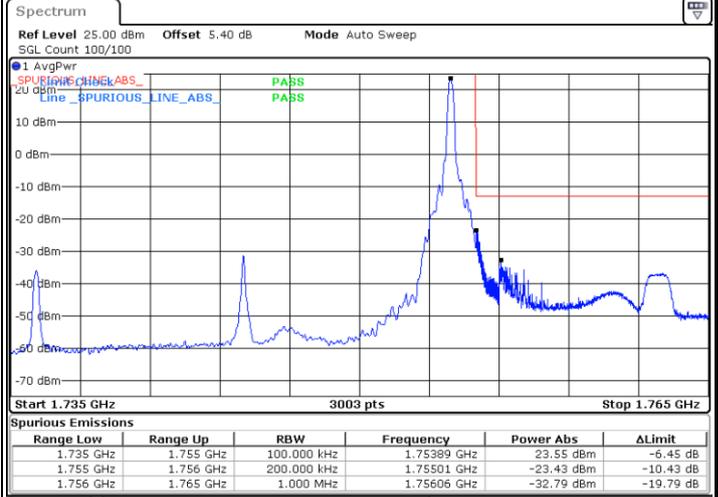
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



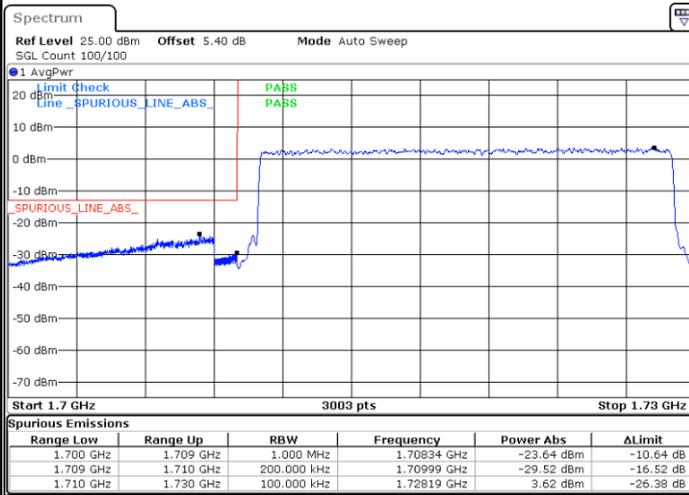
Date: 12.JUL.2022 19:05:39

Highest Band Edge / 1 RB



Date: 12.JUL.2022 19:13:48

Lowest Band Edge / Full RB



Date: 12.JUL.2022 19:08:25

Highest Band Edge / Full RB

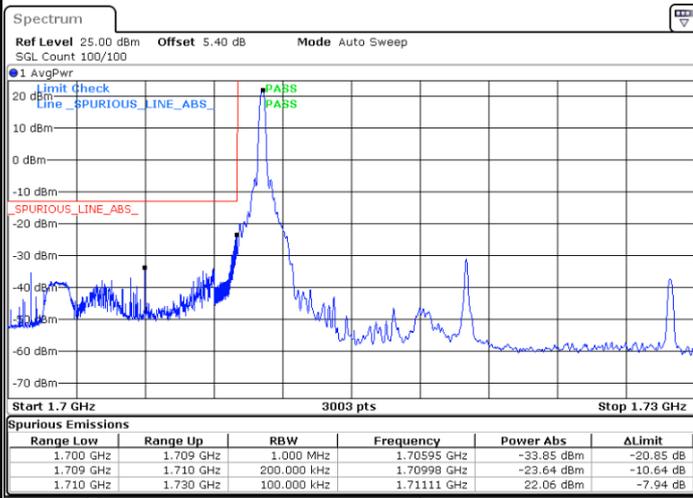


Date: 12.JUL.2022 19:16:33



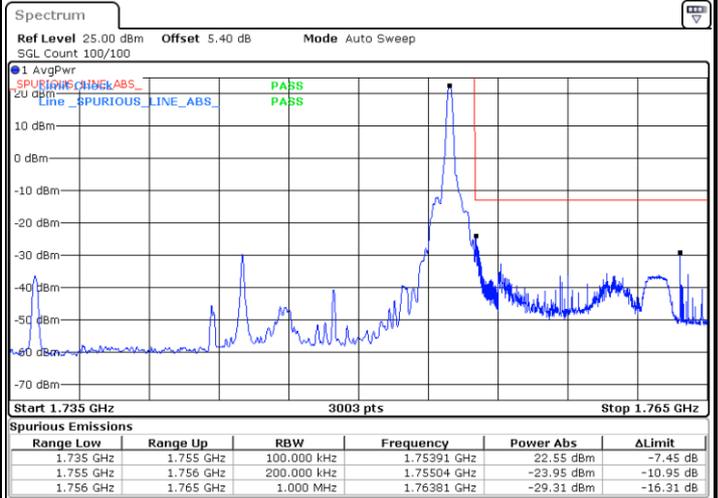
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



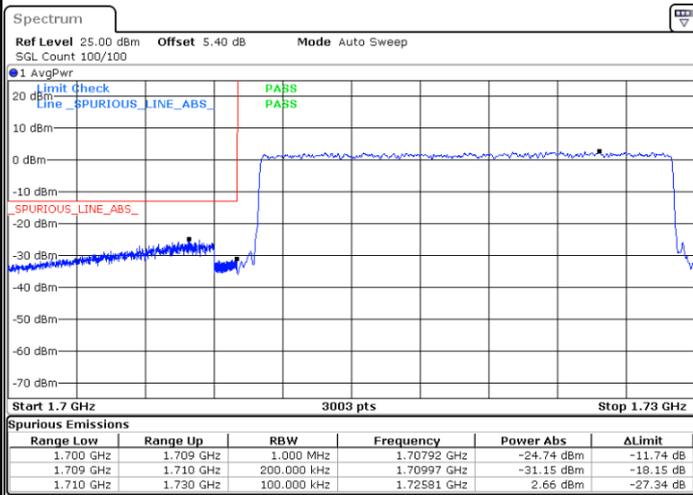
Date: 12.JUL.2022 19:06:21

Highest Band Edge / 1 RB



Date: 12.JUL.2022 19:14:30

Lowest Band Edge / Full RB



Date: 12.JUL.2022 19:09:05

Highest Band Edge / Full RB

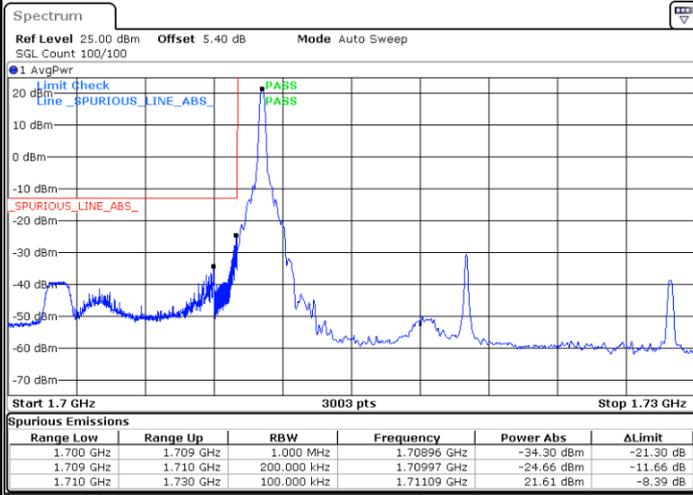


Date: 12.JUL.2022 19:17:13



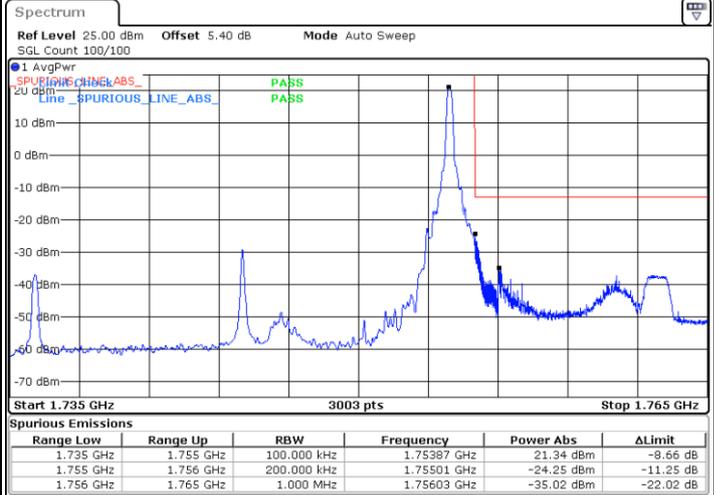
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



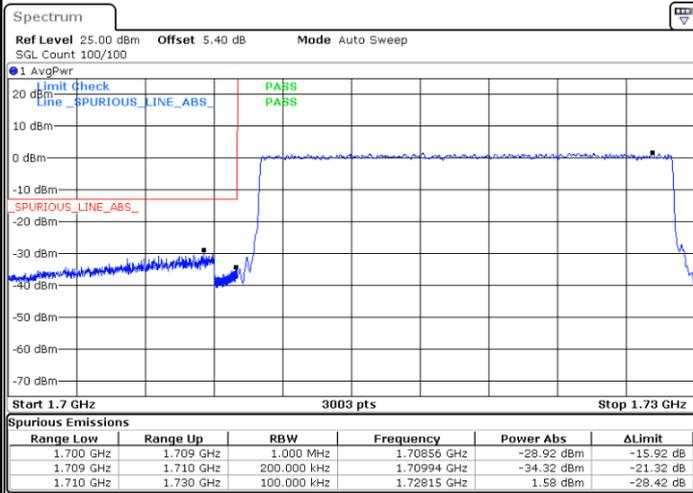
Date: 12.JUL.2022 19:07:02

Highest Band Edge / 1 RB



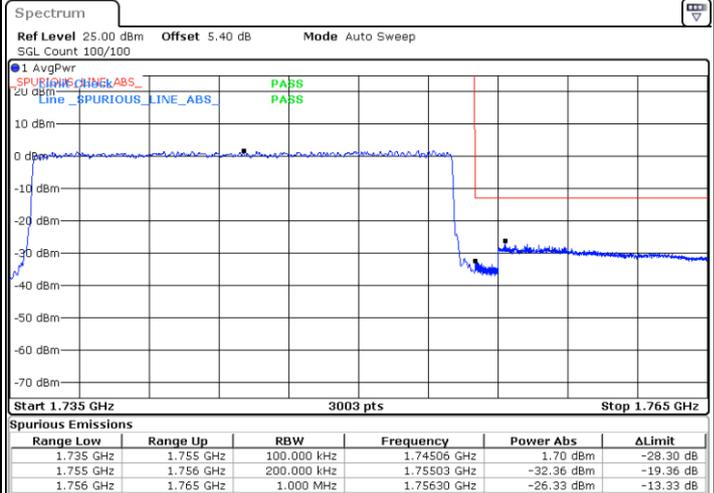
Date: 12.JUL.2022 19:15:11

Lowest Band Edge / Full RB



Date: 12.JUL.2022 19:09:45

Highest Band Edge / Full RB

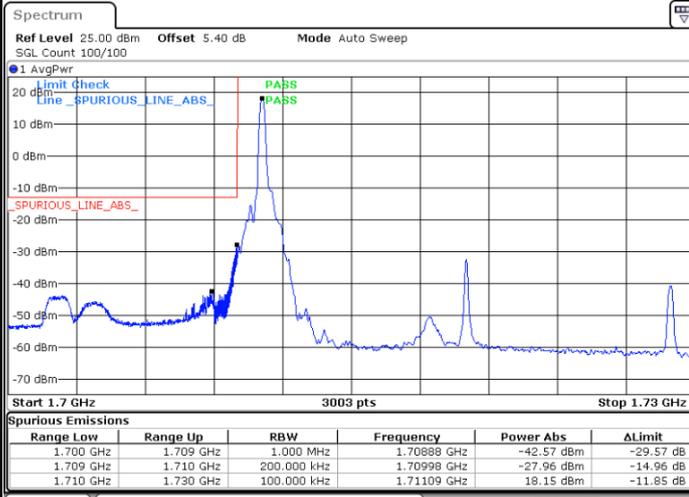


Date: 12.JUL.2022 19:17:54



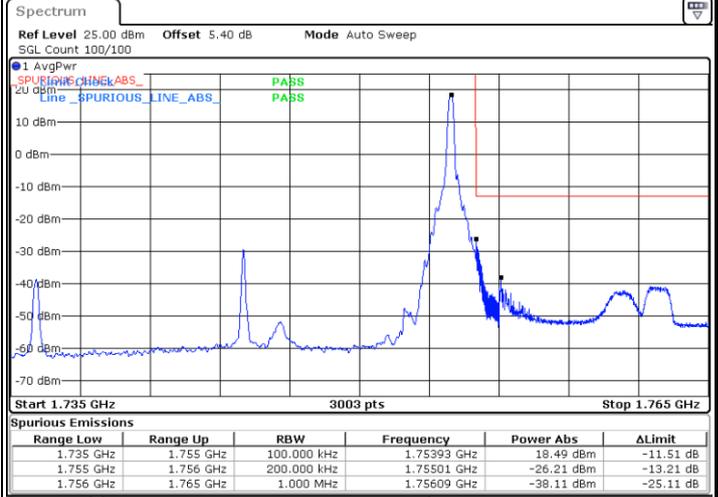
LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



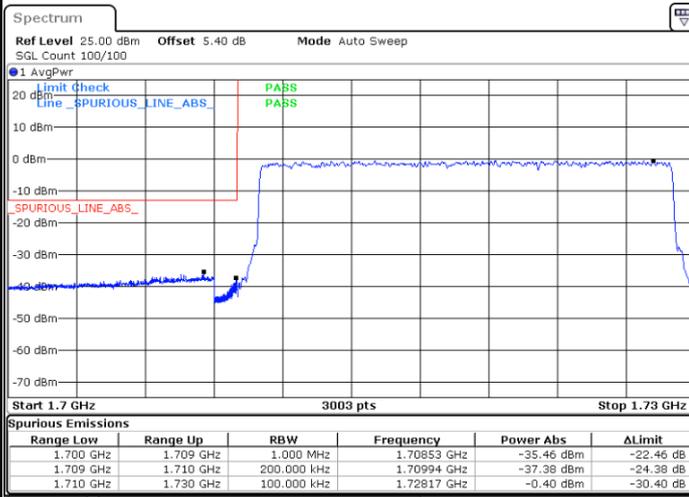
Date: 12.JUL.2022 19:07:42

Highest Band Edge / 1 RB



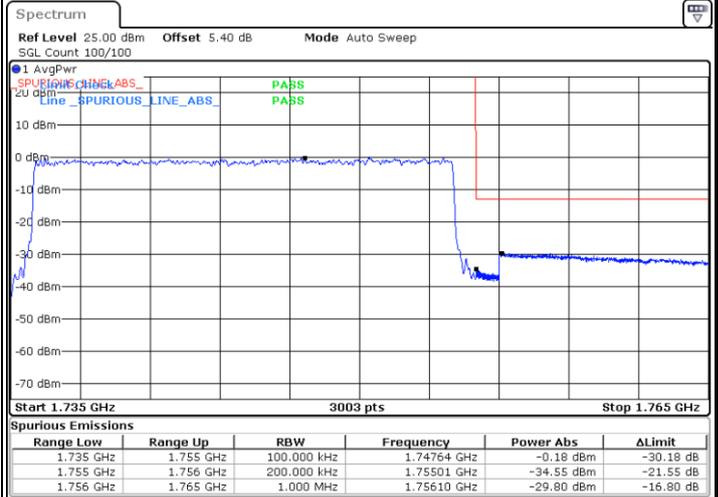
Date: 12.JUL.2022 19:15:51

Lowest Band Edge / Full RB



Date: 12.JUL.2022 19:10:29

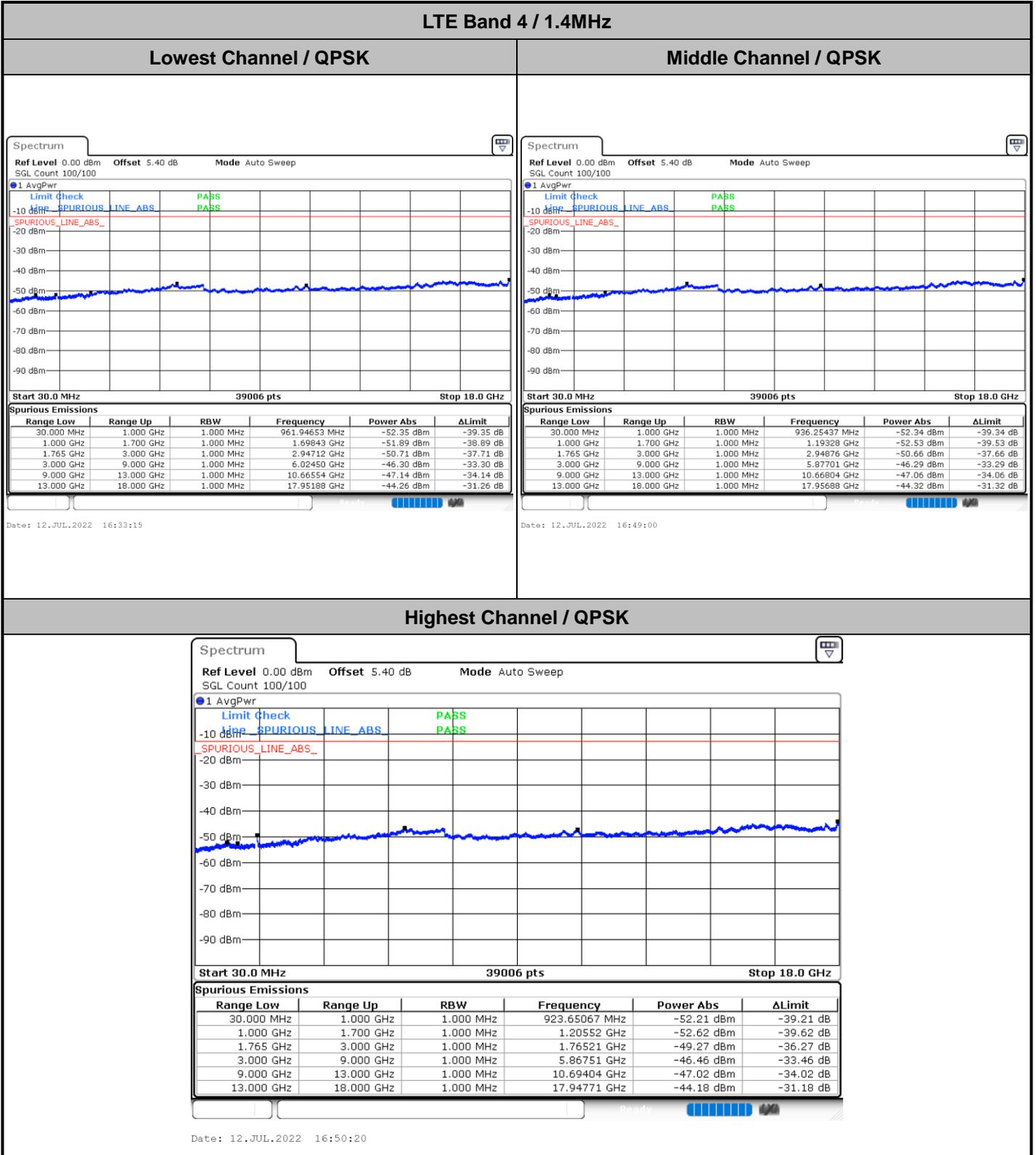
Highest Band Edge / Full RB



Date: 12.JUL.2022 19:18:36



# Conducted Spurious Emission

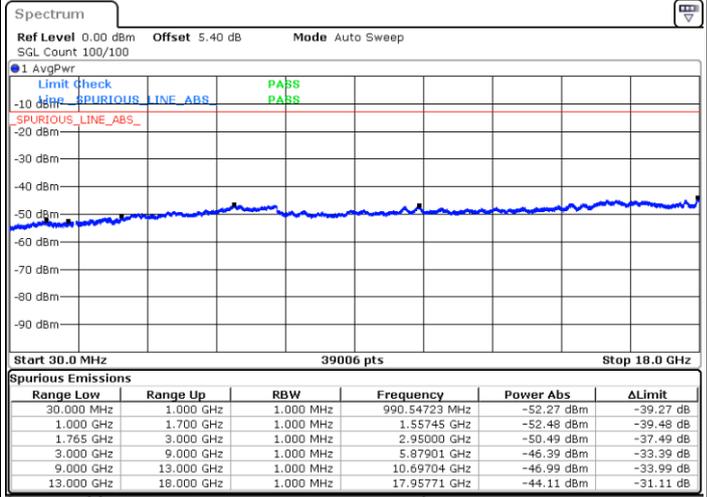
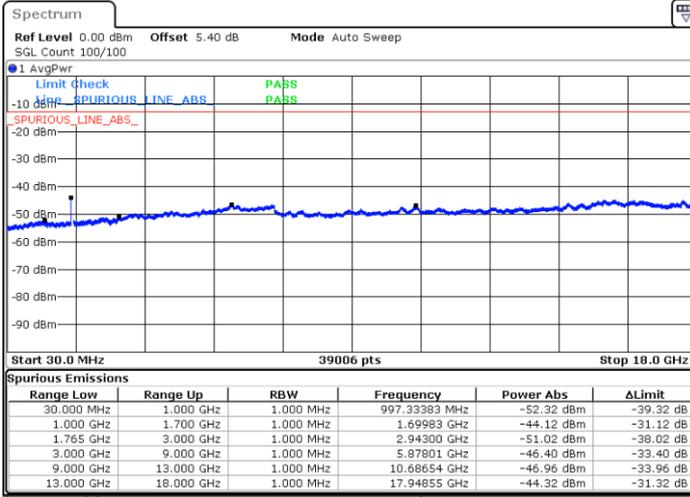




LTE Band 4 / 3MHz

Lowest Channel / QPSK

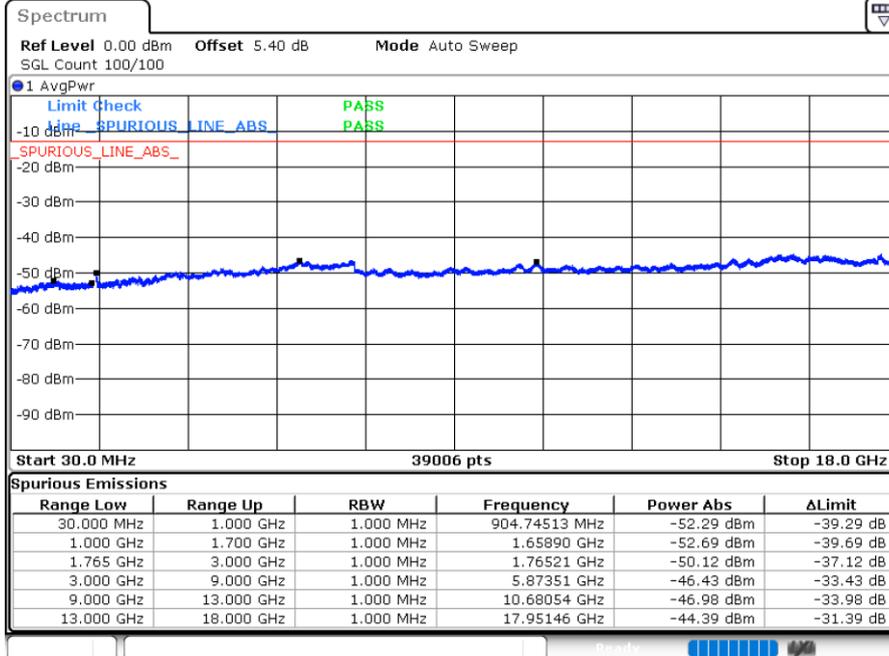
Middle Channel / QPSK



Date: 12.JUL.2022 17:14:41

Date: 12.JUL.2022 17:27:41

Highest Channel / QPSK



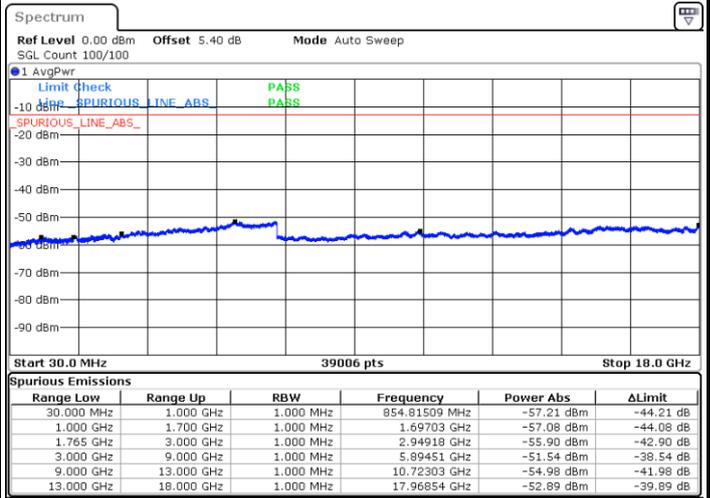
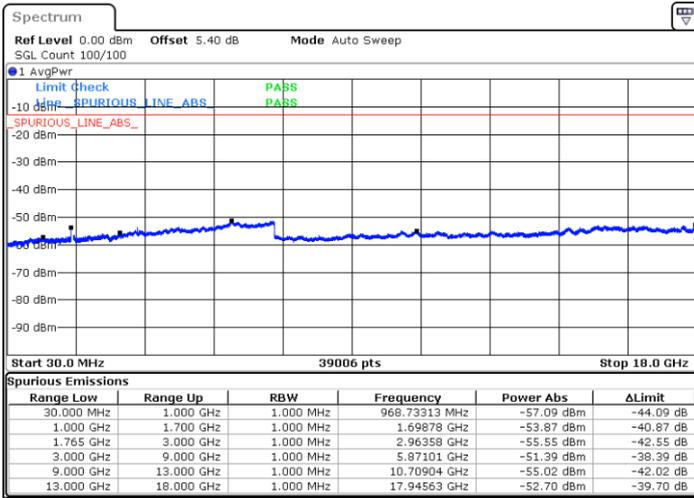
Date: 12.JUL.2022 17:28:46



LTE Band 4 / 5MHz

Lowest Channel / QPSK

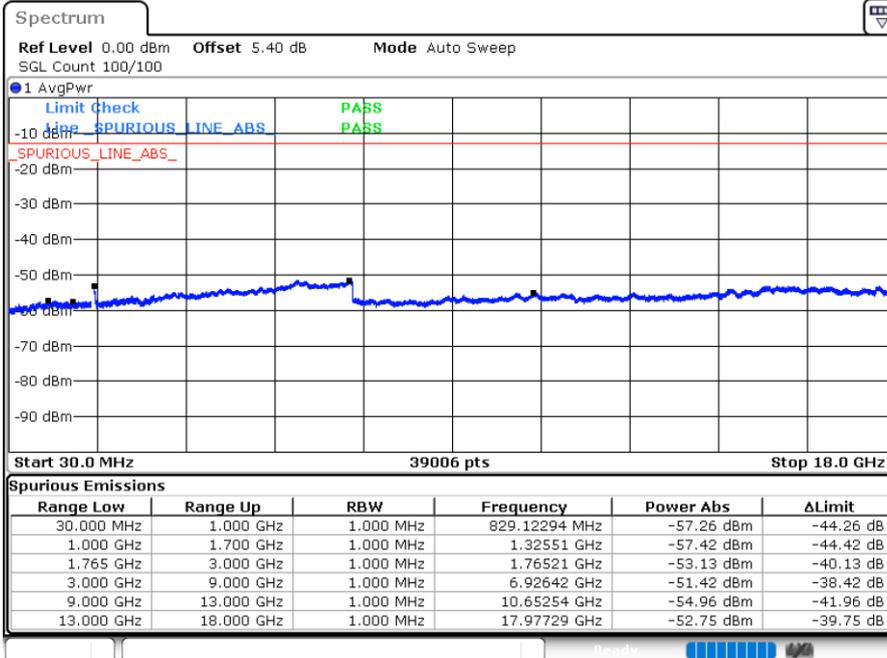
Middle Channel / QPSK



Date: 12.JUL.2022 17:41:52

Date: 12.JUL.2022 17:52:28

Highest Channel / QPSK



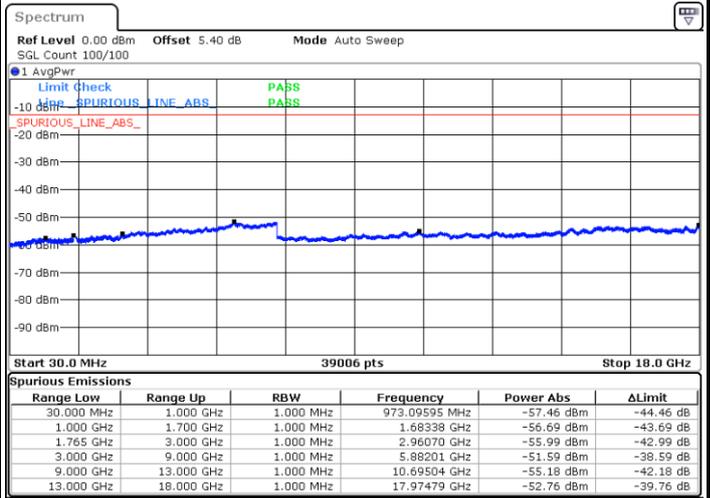
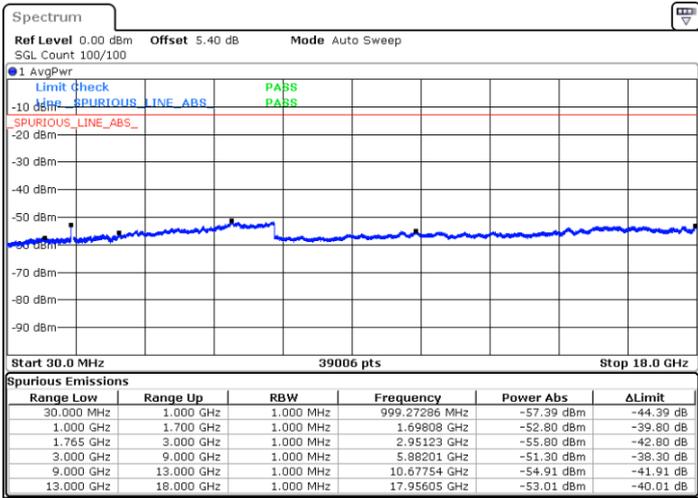
Date: 12.JUL.2022 17:53:27



LTE Band 4 / 10MHz

Lowest Channel / QPSK

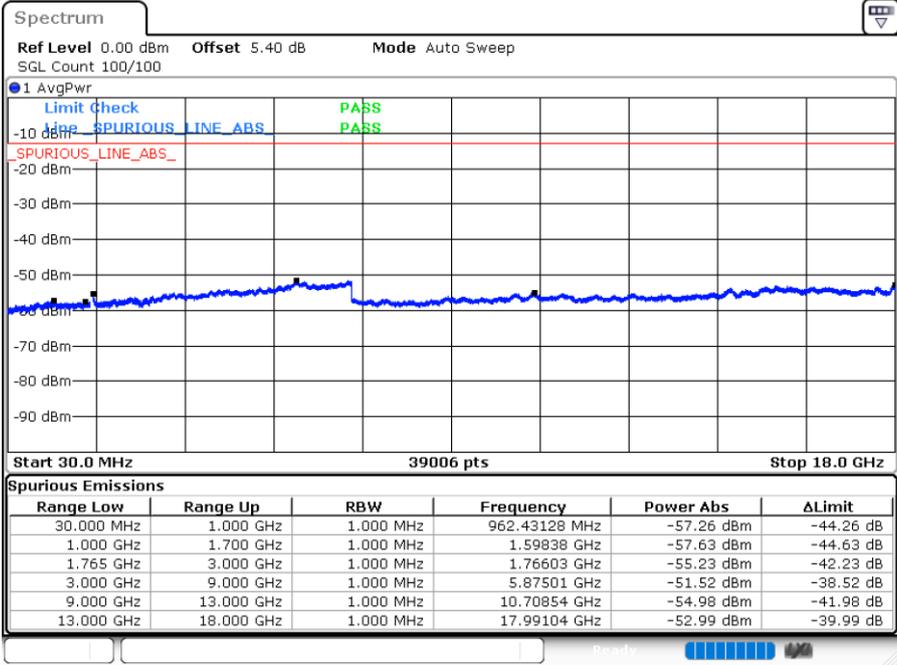
Middle Channel / QPSK



Date: 12.JUL.2022 18:21:02

Date: 12.JUL.2022 18:30:14

Highest Channel / QPSK



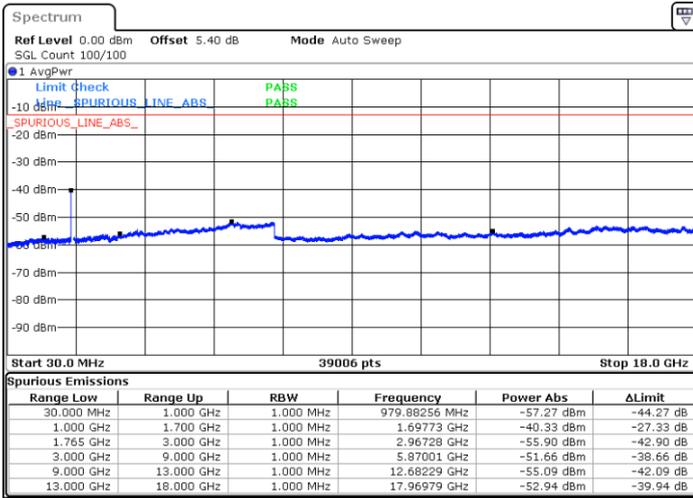
Date: 12.JUL.2022 18:31:13



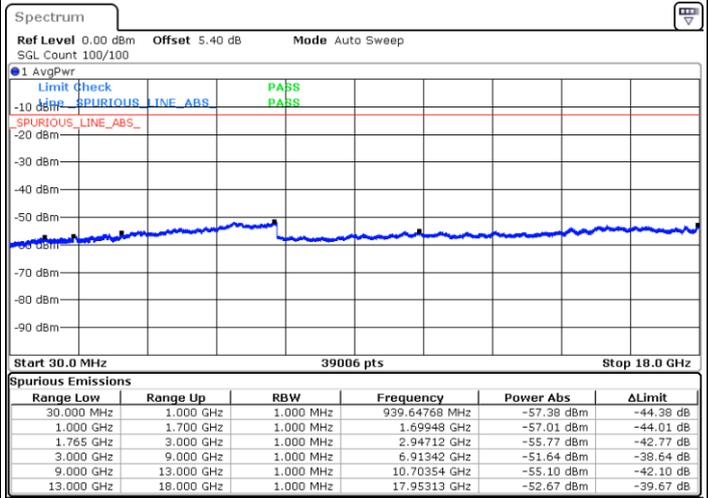
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

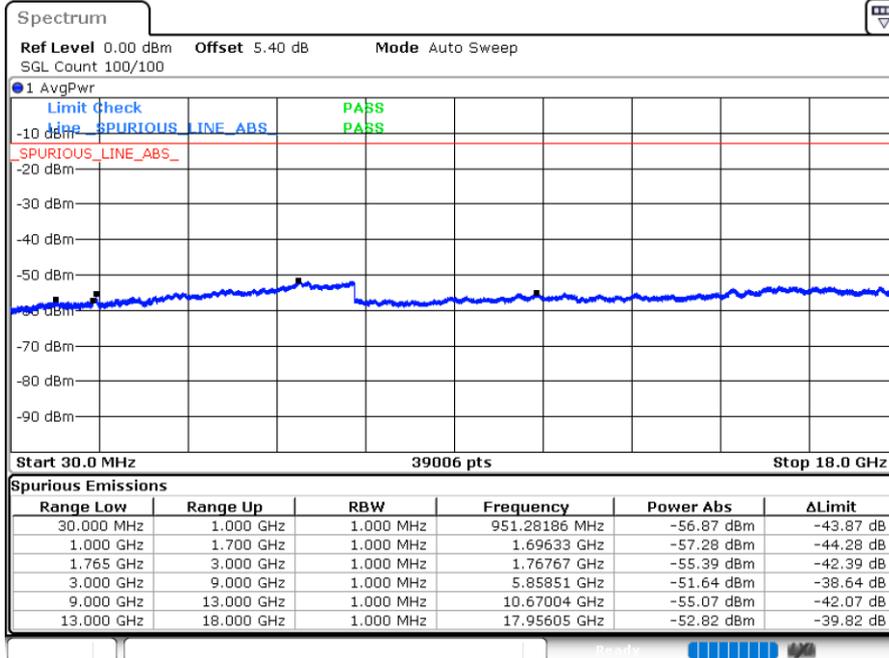


Date: 12.JUL.2022 18:42:34



Date: 12.JUL.2022 18:51:54

Highest Channel / QPSK



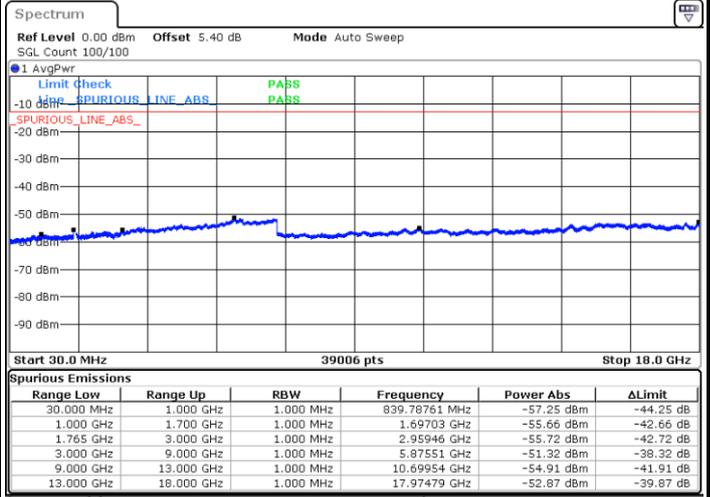
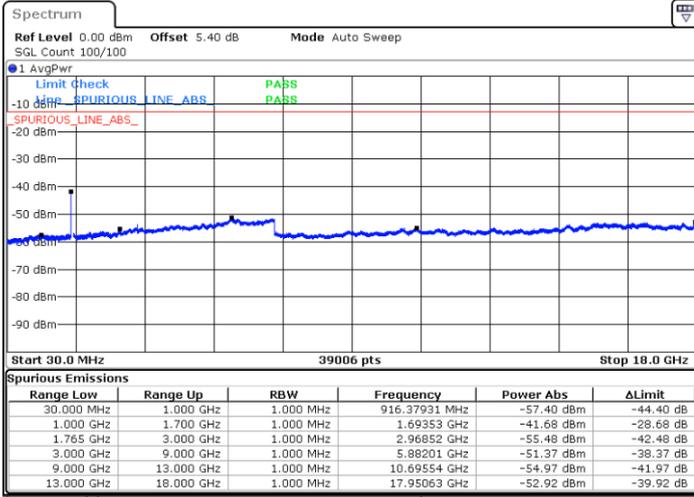
Date: 12.JUL.2022 18:52:56



LTE Band 4 / 20MHz

Lowest Channel / QPSK

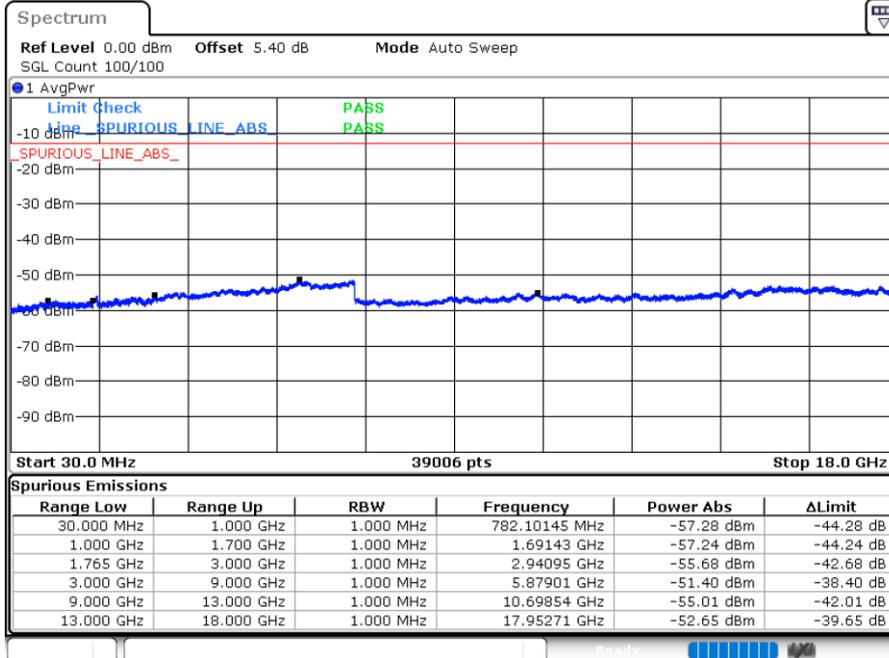
Middle Channel / QPSK



Date: 12.JUL.2022 19:04:59

Date: 12.JUL.2022 19:12:12

Highest Channel / QPSK



Date: 12.JUL.2022 19:13:07



### Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0085	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0151	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0162	

**Note:**

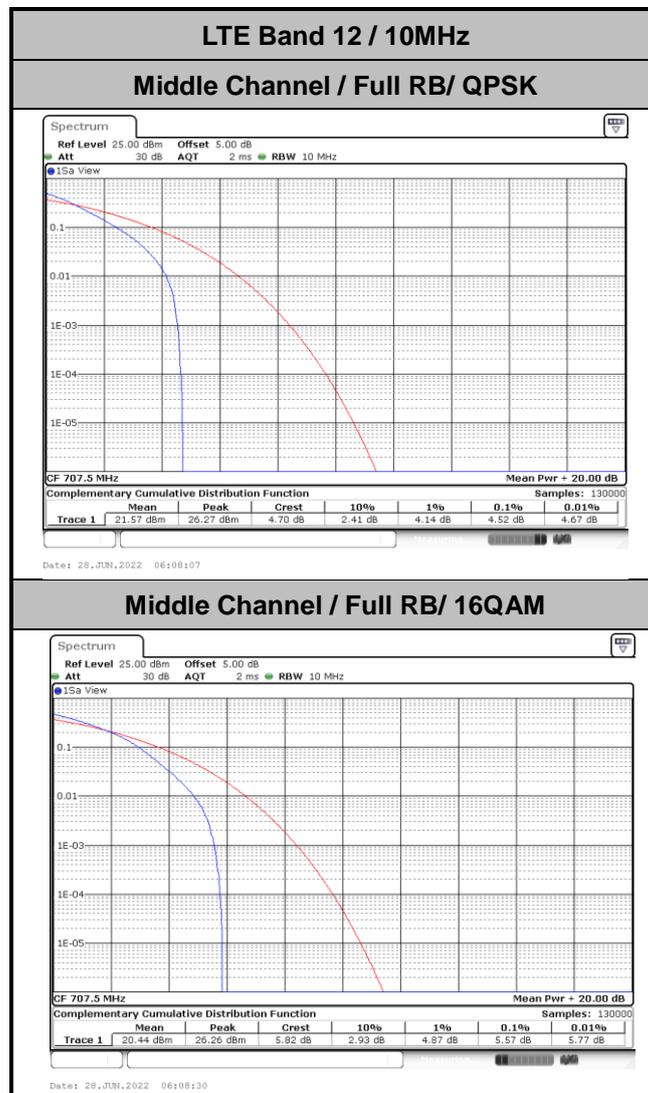
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

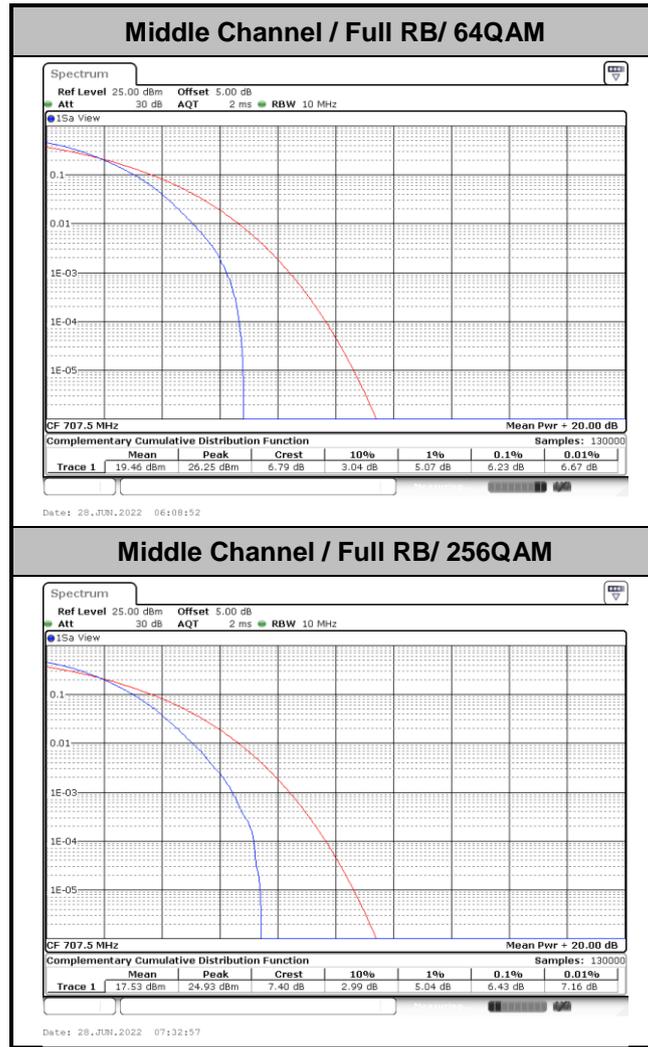


# LTE Band 12

## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.57	6.23	6.43	PASS

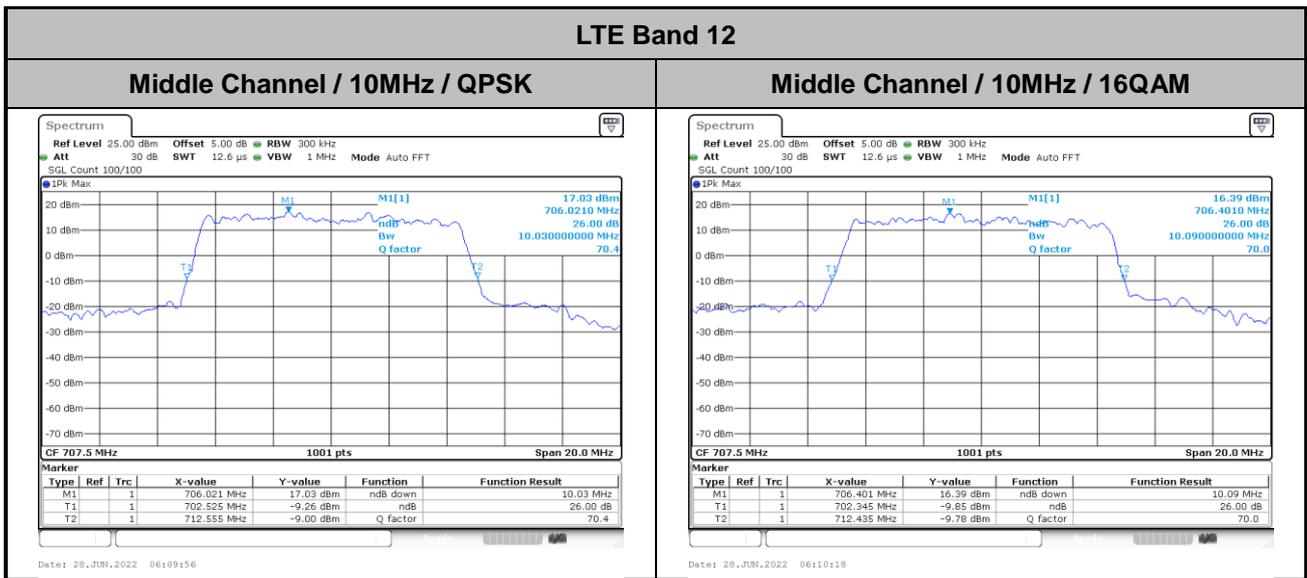






**26dB Bandwidth**

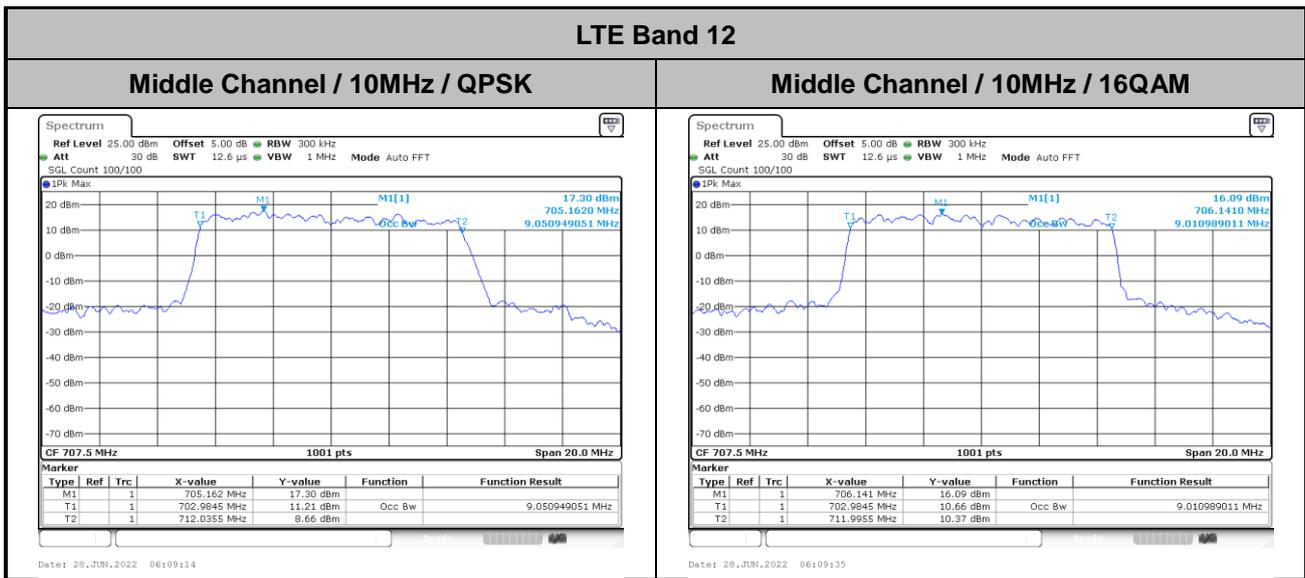
<b>Mode</b>	<b>LTE Band 12 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	10.03	10.09





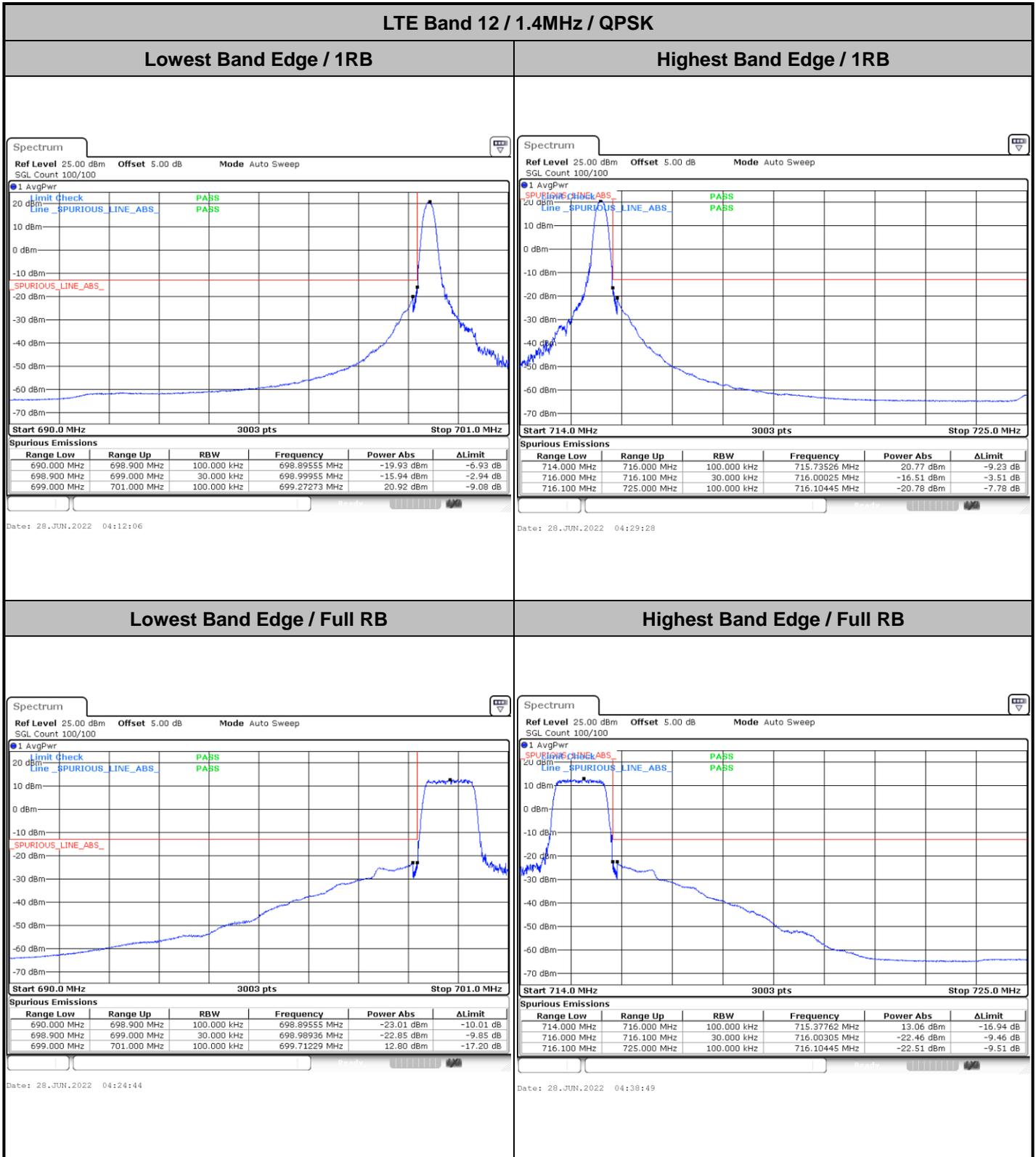
## Occupied Bandwidth

<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>	9.05	9.01





# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 28 JUN 2022 04:13:26

Highest Band Edge / 1 RB



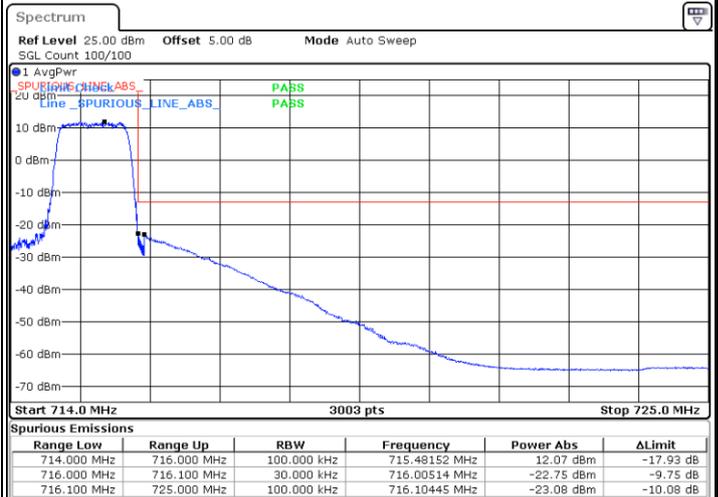
Date: 28 JUN 2022 04:30:48

Lowest Band Edge / Full RB



Date: 28 JUN 2022 04:23:24

Highest Band Edge / Full RB



Date: 28 JUN 2022 04:37:29



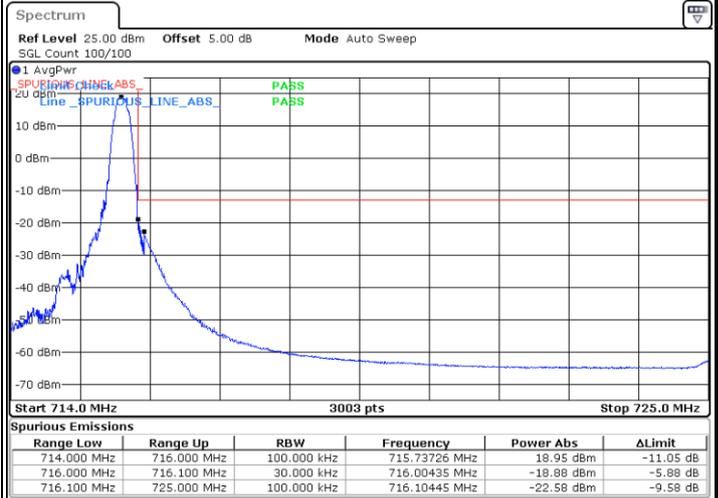
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 28 JUN.2022 04:14:46

Highest Band Edge / 1 RB



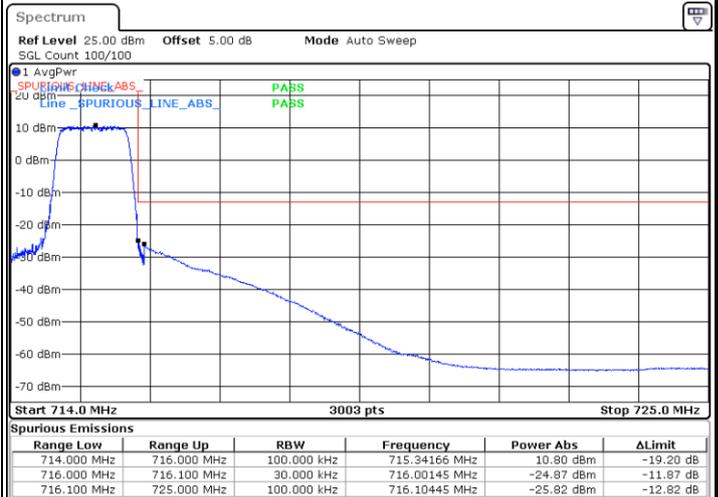
Date: 28 JUN.2022 04:32:08

Lowest Band Edge / Full RB



Date: 28 JUN.2022 04:22:04

Highest Band Edge / Full RB

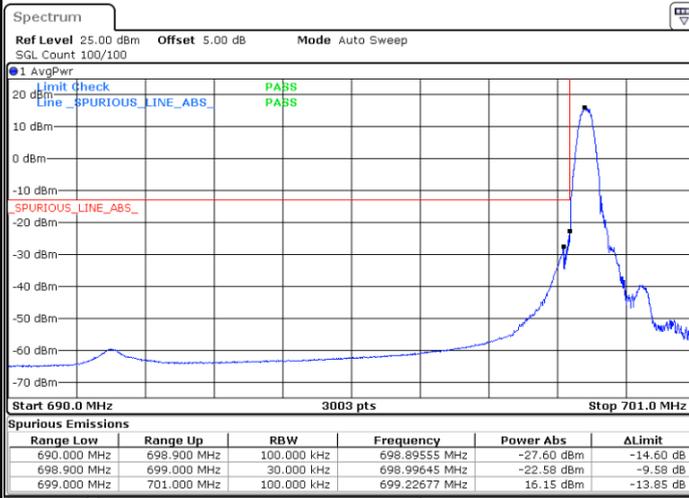


Date: 28 JUN.2022 04:36:09



LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1RB



Date: 28 JUN 2022 04:16:06

Highest Band Edge / 1RB



Date: 28 JUN 2022 04:33:29

Lowest Band Edge / Full RB



Date: 28 JUN 2022 04:20:34

Highest Band Edge / Full RB

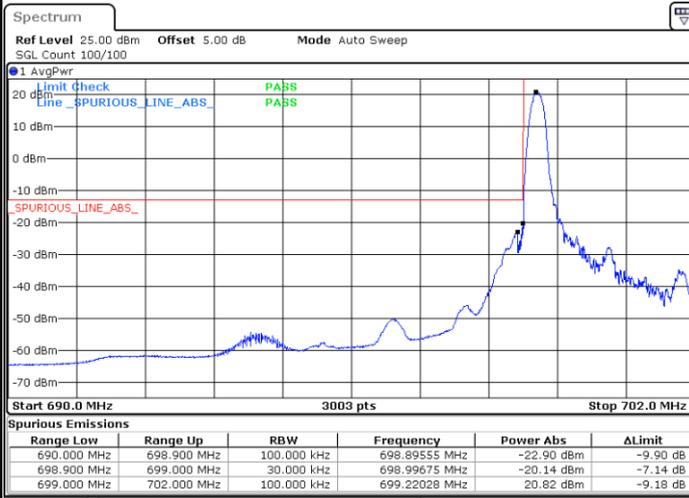


Date: 28 JUN 2022 04:34:49



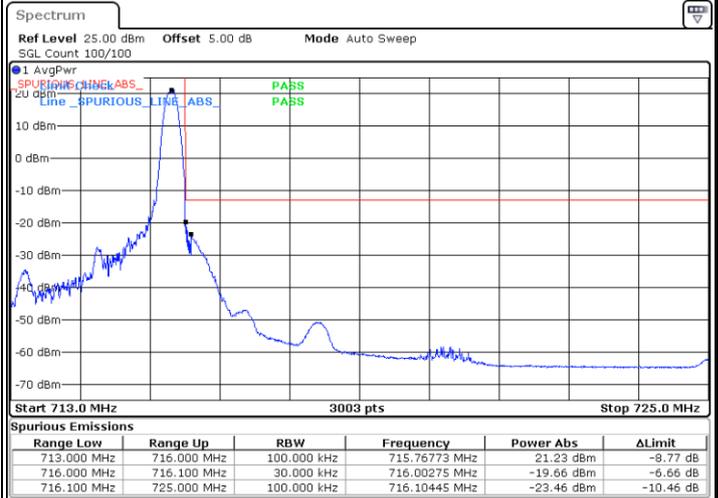
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 28 JUN 2022 04:41:52

Highest Band Edge / 1 RB



Date: 28 JUN 2022 04:58:57

Lowest Band Edge / Full RB



Date: 28 JUN 2022 04:54:13

Highest Band Edge / Full RB

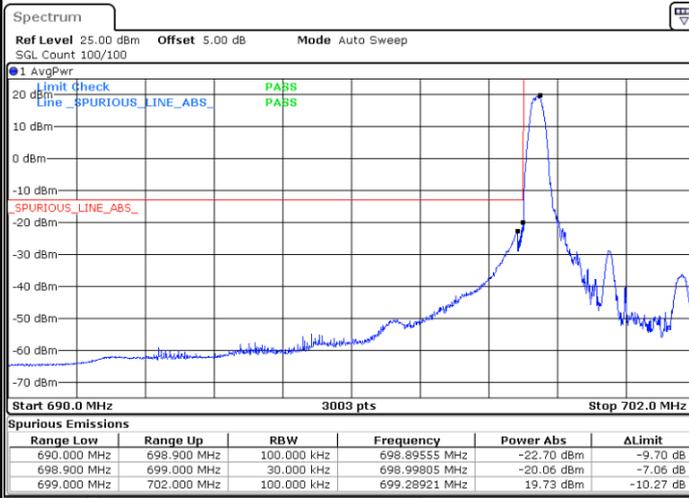


Date: 28 JUN 2022 05:10:15



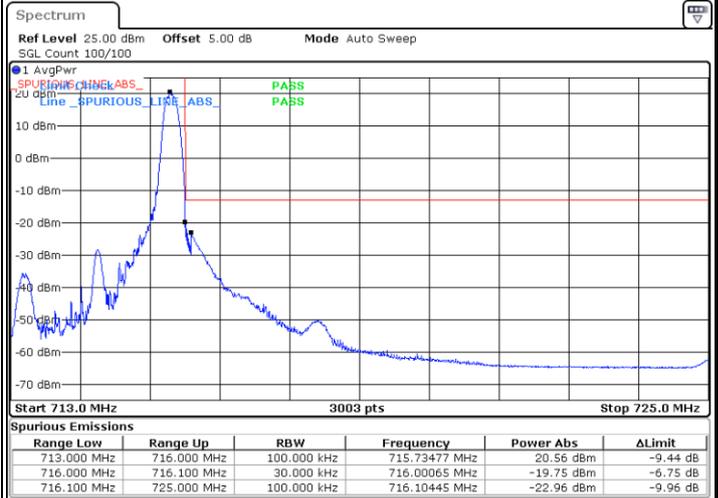
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



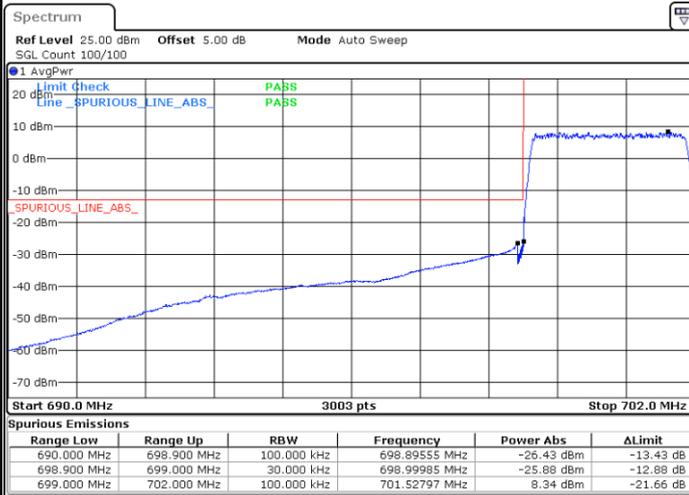
Date: 28 JUN 2022 04:43:12

Highest Band Edge / 1 RB



Date: 28 JUN 2022 05:00:18

Lowest Band Edge / Full RB



Date: 28 JUN 2022 04:52:53

Highest Band Edge / Full RB

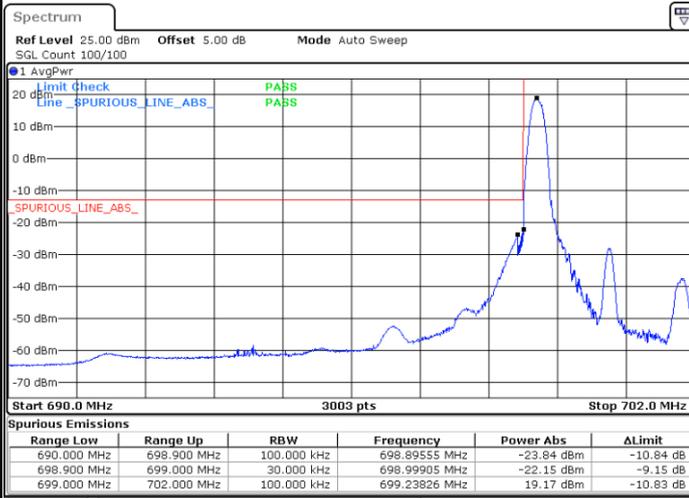


Date: 28 JUN 2022 05:00:55



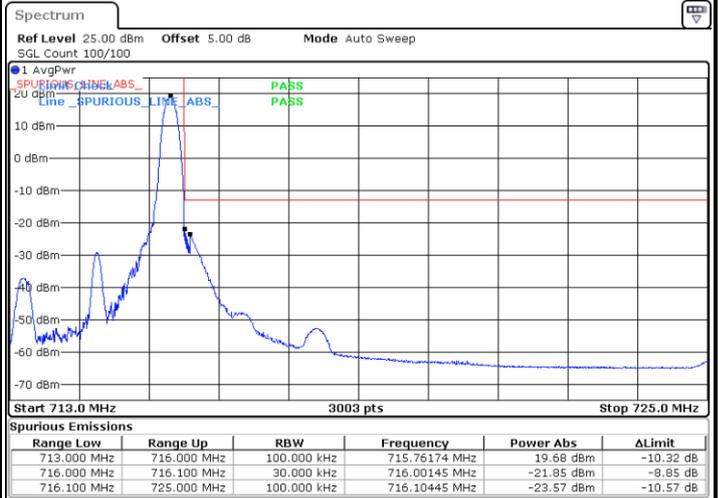
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 28 JUN 2022 04:44:33

Highest Band Edge / 1 RB



Date: 28 JUN 2022 05:01:38

Lowest Band Edge / Full RB



Date: 28 JUN 2022 04:51:33

Highest Band Edge / Full RB

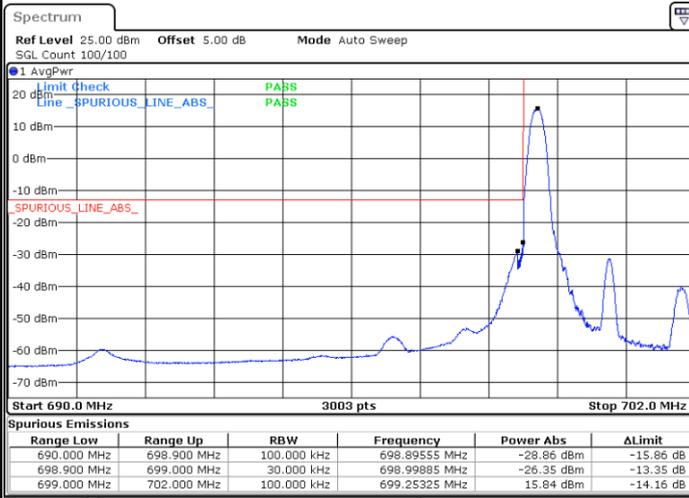


Date: 28 JUN 2022 05:07:35



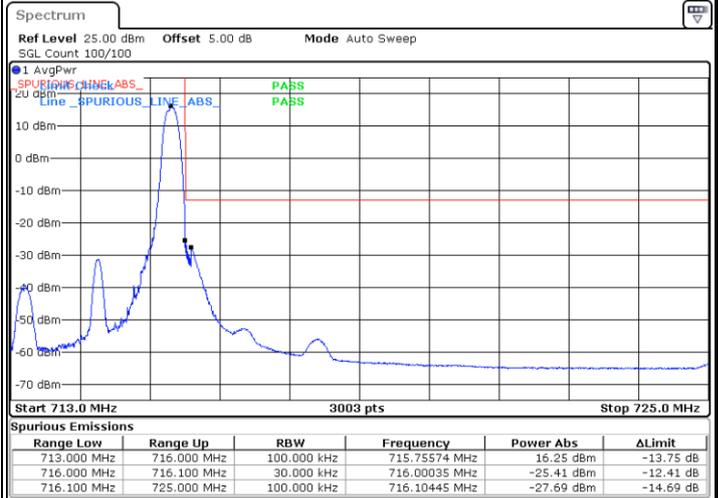
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1RB



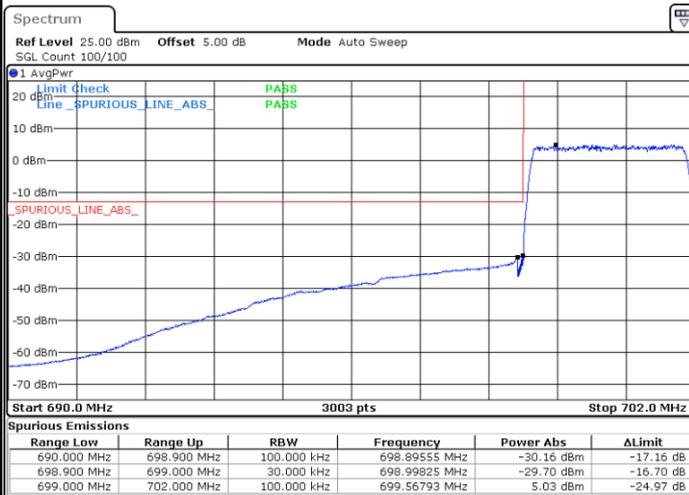
Date: 28 JUN.2022 04:45:53

Highest Band Edge / 1 RB



Date: 28 JUN.2022 05:02:58

Lowest Band Edge / Full RB



Date: 28 JUN.2022 04:50:10

Highest Band Edge / Full RB



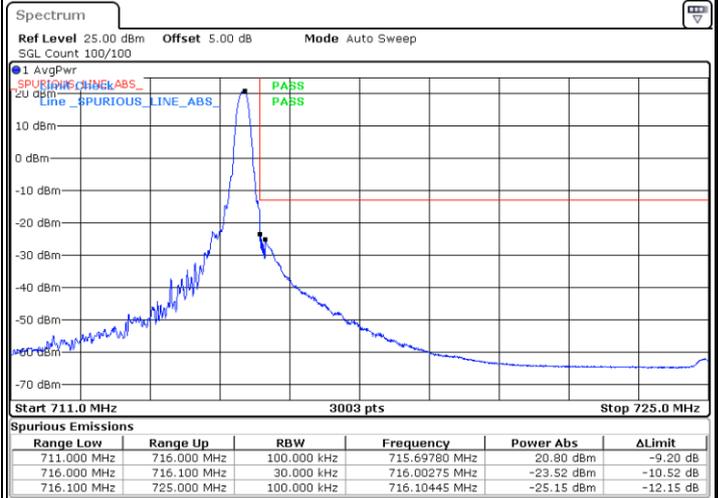
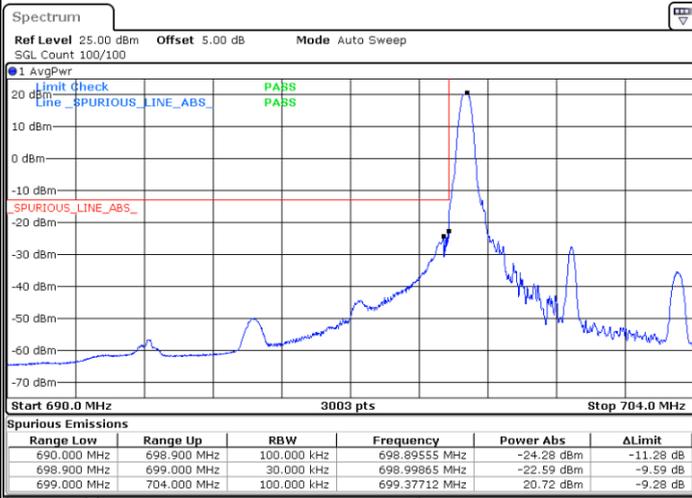
Date: 28 JUN.2022 05:06:15



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

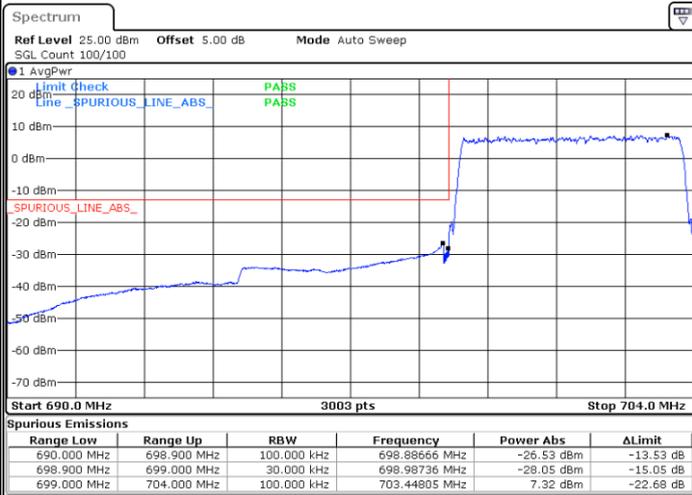


Date: 28 JUN 2022 05:13:18

Date: 28 JUN 2022 05:28:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



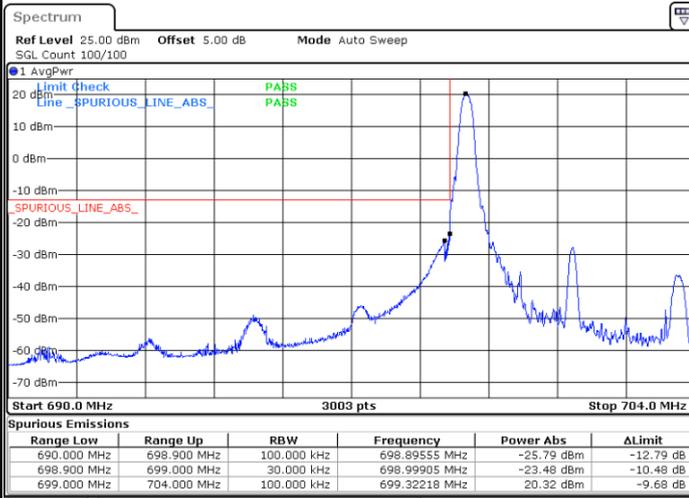
Date: 28 JUN 2022 05:23:55

Date: 28 JUN 2022 05:41:14



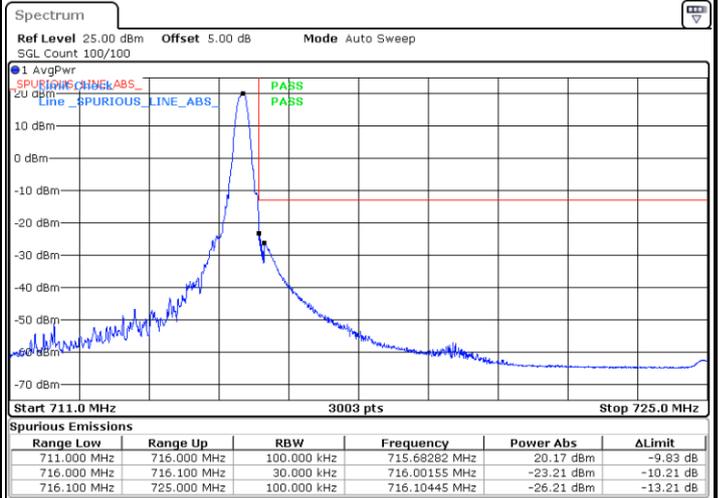
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



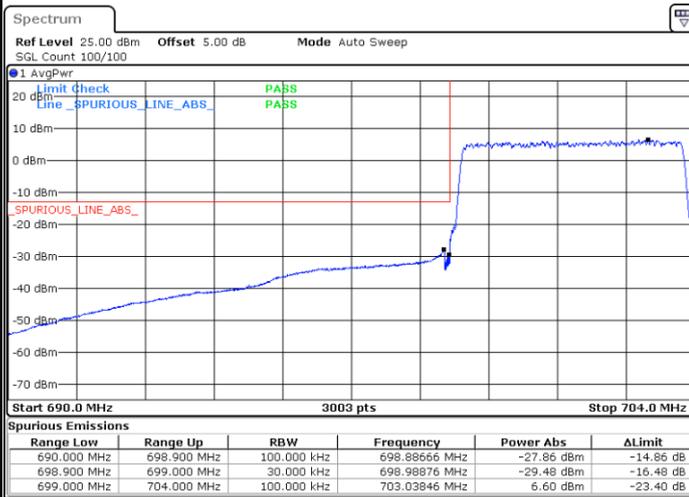
Date: 28 JUN.2022 05:14:39

Highest Band Edge / 1 RB



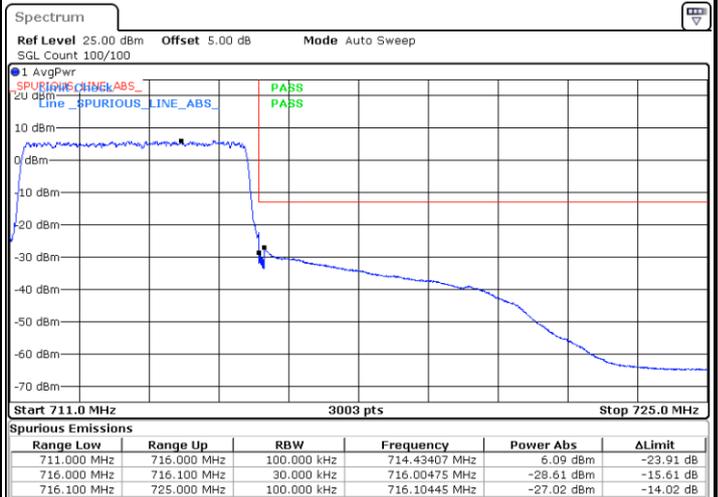
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Lowest Band Edge / Full RB



Date: 28 JUN.2022 05:22:35

Highest Band Edge / Full RB

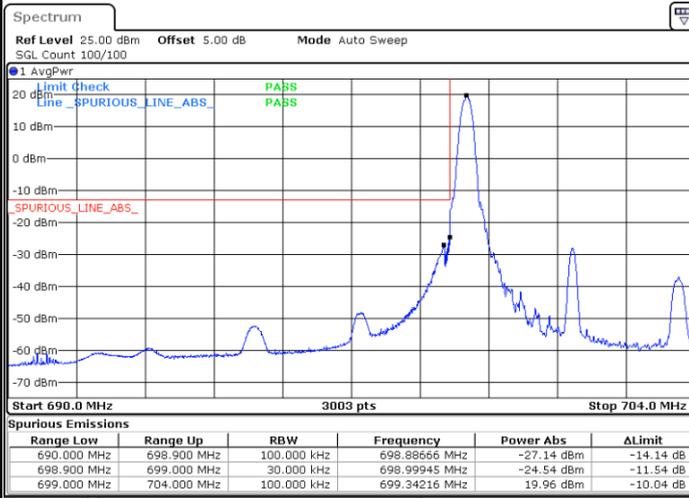


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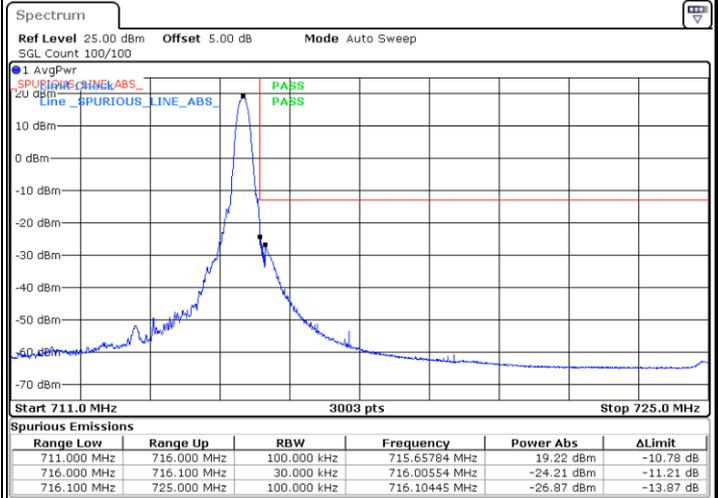
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



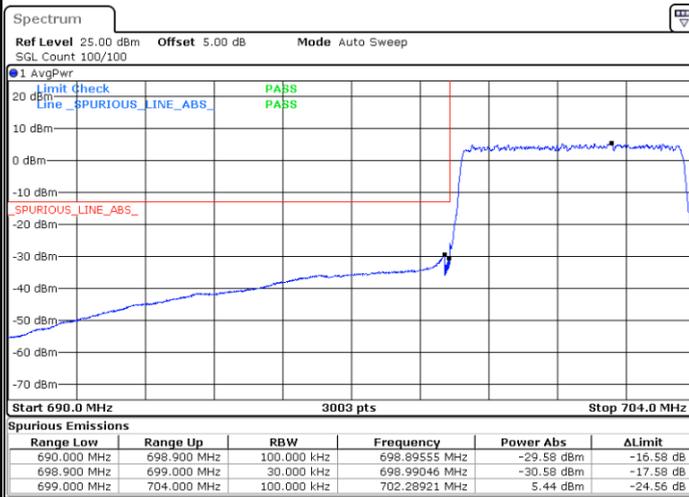
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Highest Band Edge / 1 RB



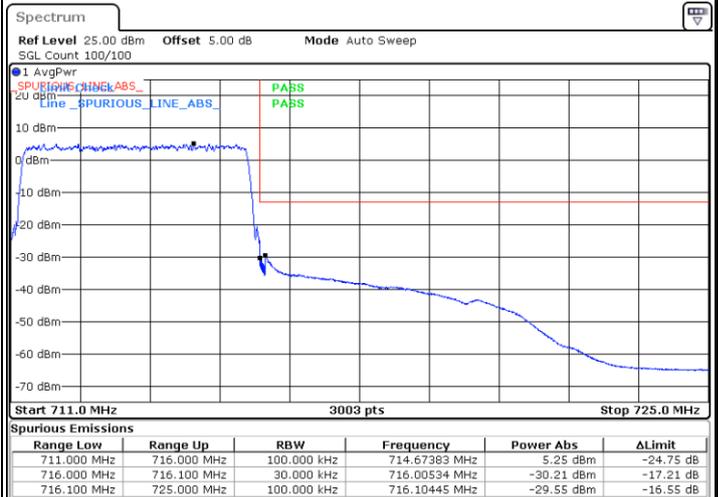
Date: 28 JUN.2022 05:31:20

Lowest Band Edge / Full RB



Date: 28 JUN.2022 05:21:15

Highest Band Edge / Full RB



Date: 28 JUN.2022 05:38:34