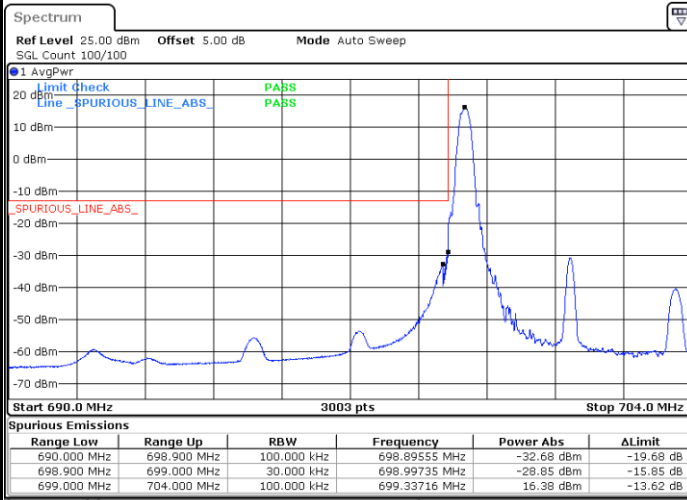




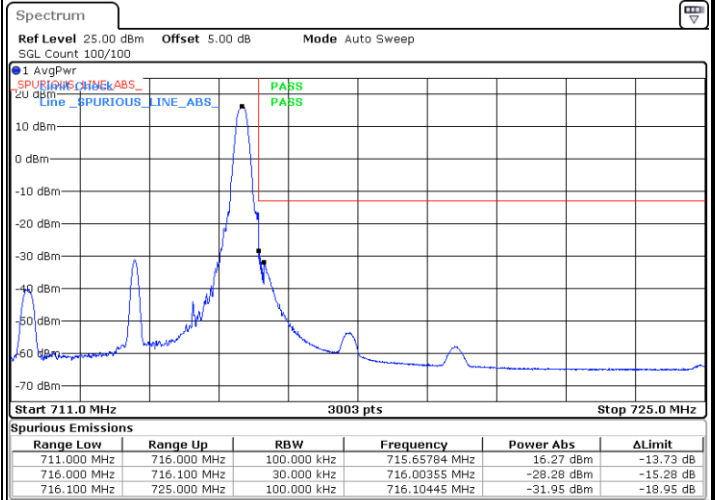
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



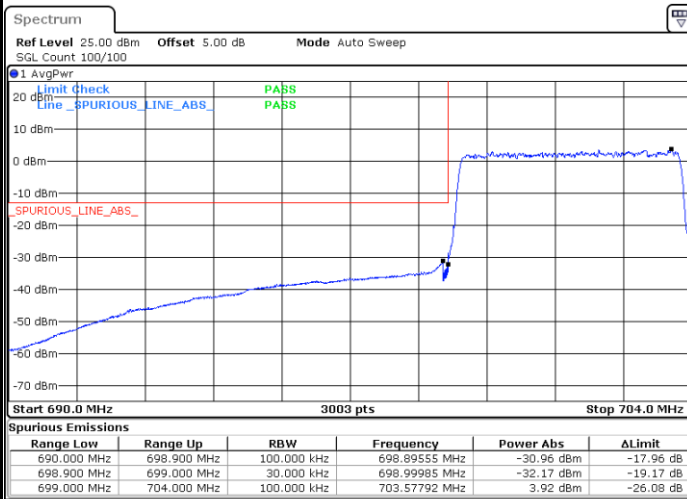
Date: 28 JUN.2022 05:17:19

Highest Band Edge / 1 RB



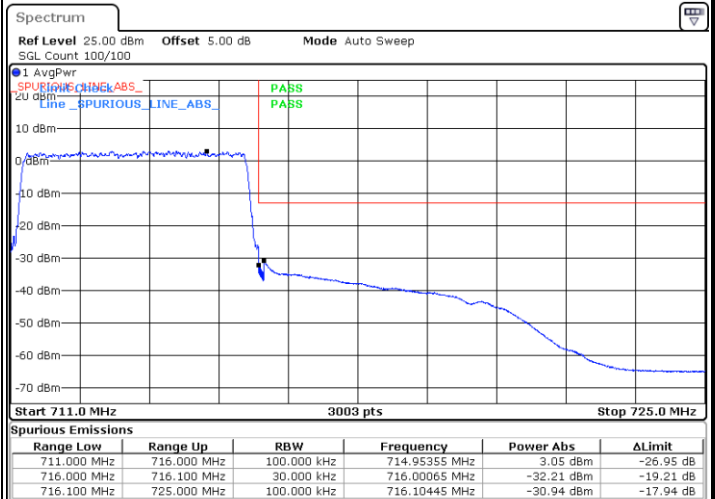
Date: 28 JUN.2022 05:32:41

Lowest Band Edge / Full RB



Date: 28 JUN.2022 05:19:55

Highest Band Edge / Full RB

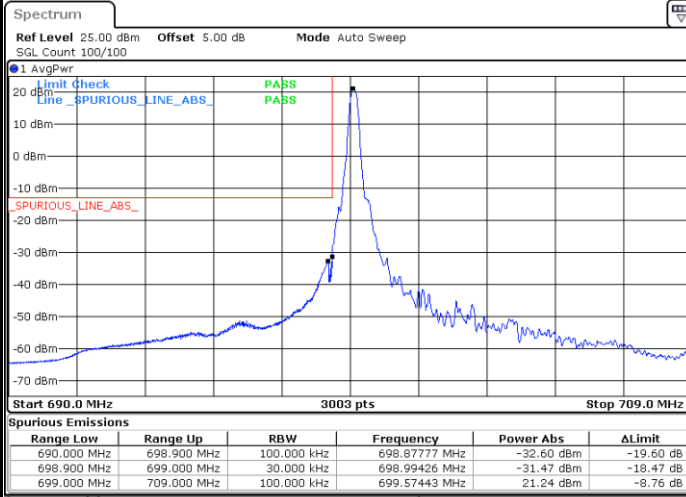


Date: 28 JUN.2022 05:36:31



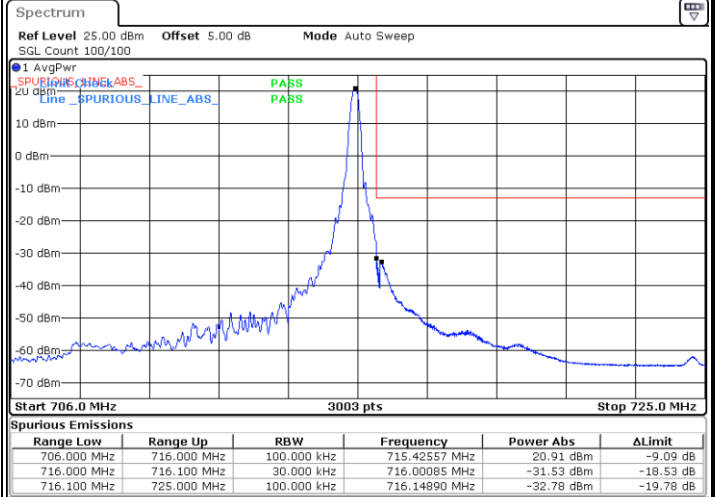
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



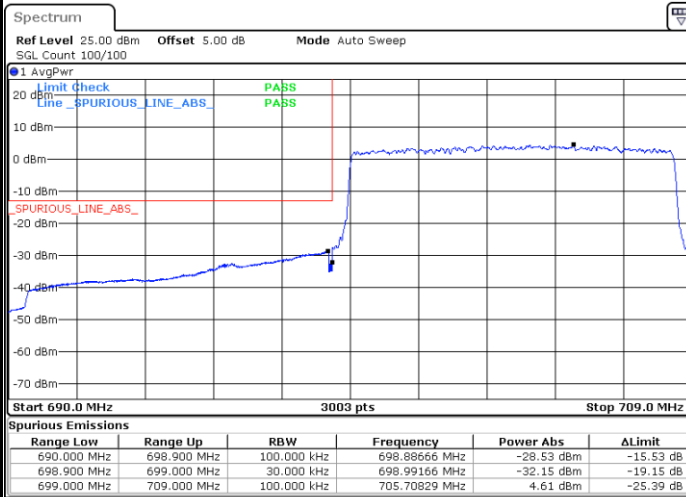
Date: 28 JUN.2022 05:44:17

Highest Band Edge / 1 RB



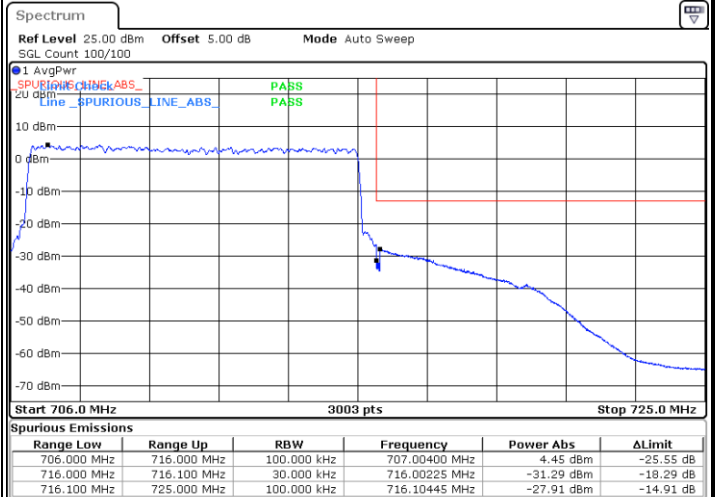
Date: 28 JUN.2022 05:58:23

Lowest Band Edge / Full RB



Date: 28 JUN.2022 05:53:39

Highest Band Edge / Full RB

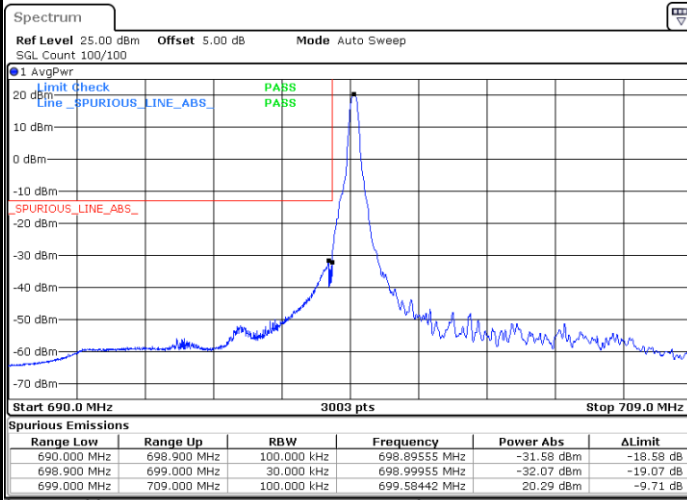


Date: 28 JUN.2022 06:07:44



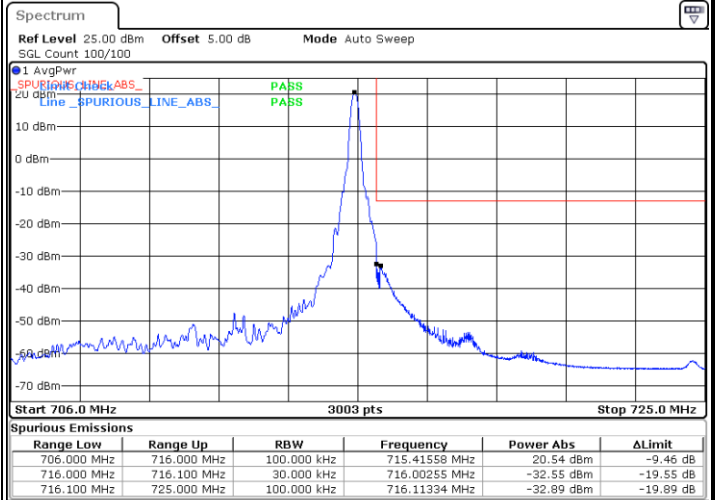
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



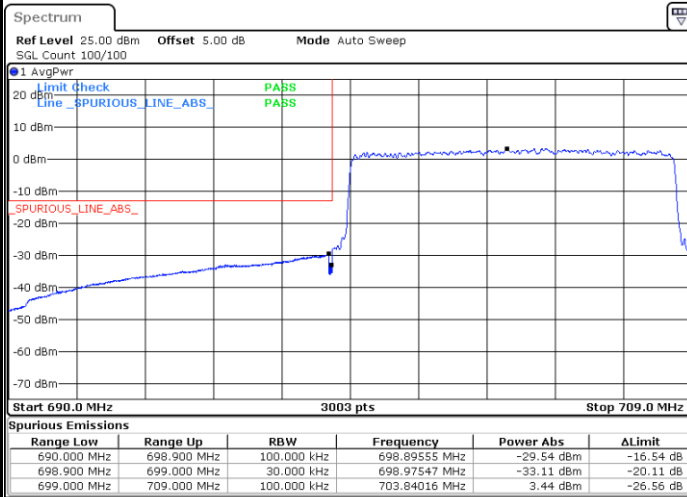
Date: 28 JUN 2022 05:45:38

Highest Band Edge / 1 RB



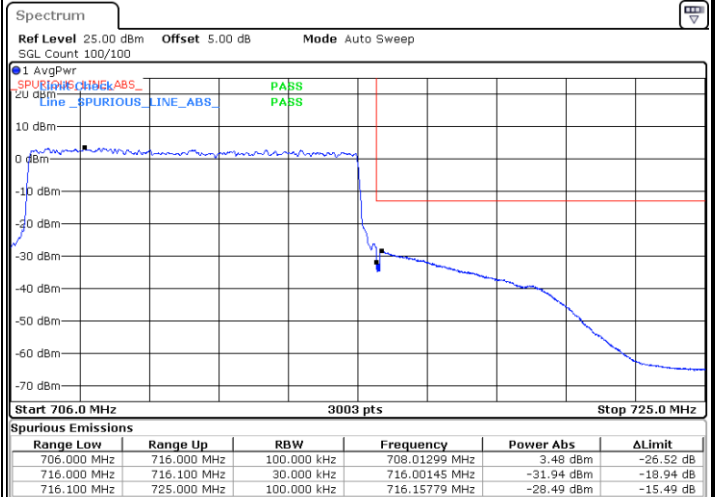
Date: 28 JUN 2022 05:59:43

Lowest Band Edge / Full RB



Date: 28 JUN 2022 05:52:19

Highest Band Edge / Full RB

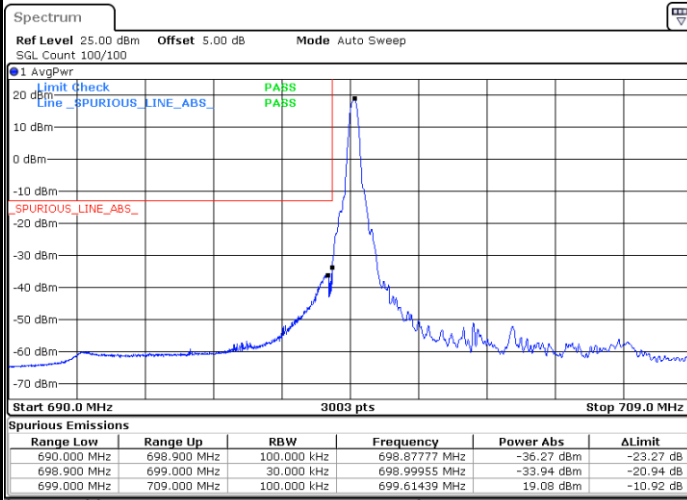


Date: 28 JUN 2022 06:06:24



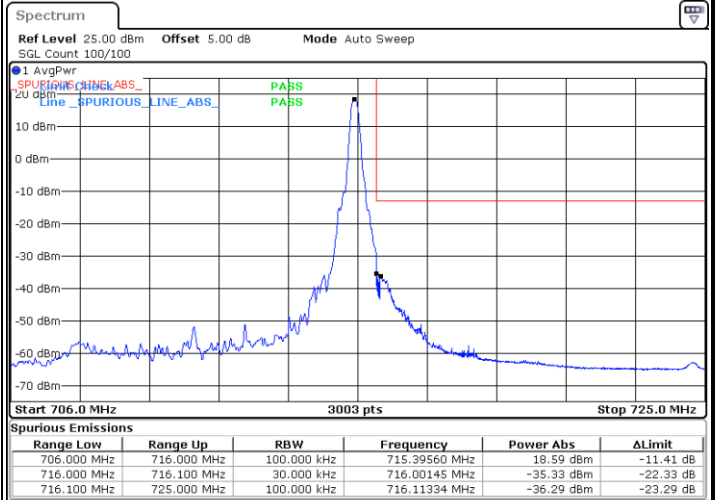
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



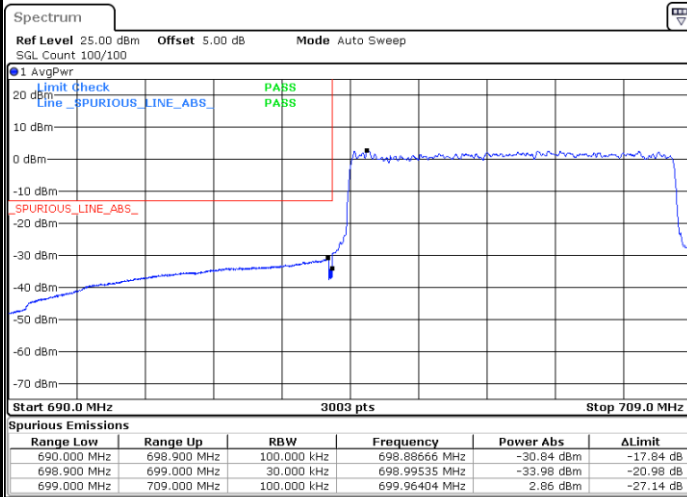
Date: 28 JUN 2022 05:46:58

Highest Band Edge / 1 RB



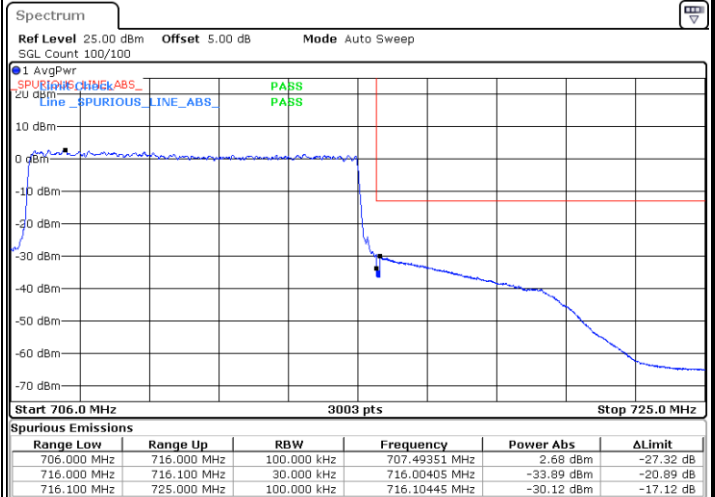
Date: 28 JUN 2022 06:01:03

Lowest Band Edge / Full RB



Date: 28 JUN 2022 05:50:58

Highest Band Edge / Full RB

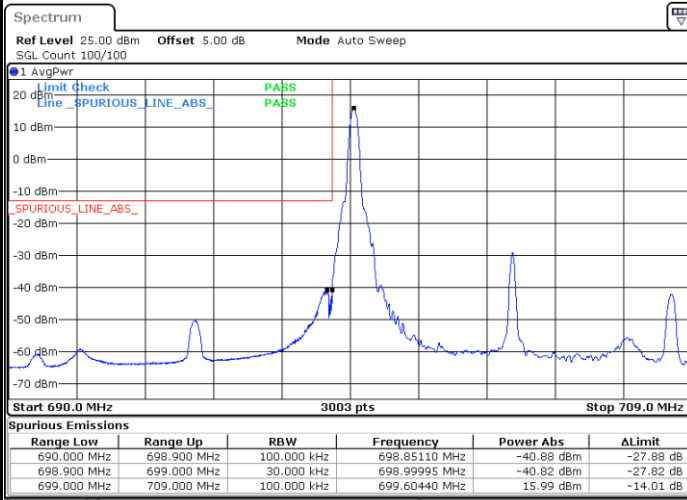


Date: 28 JUN 2022 06:05:04



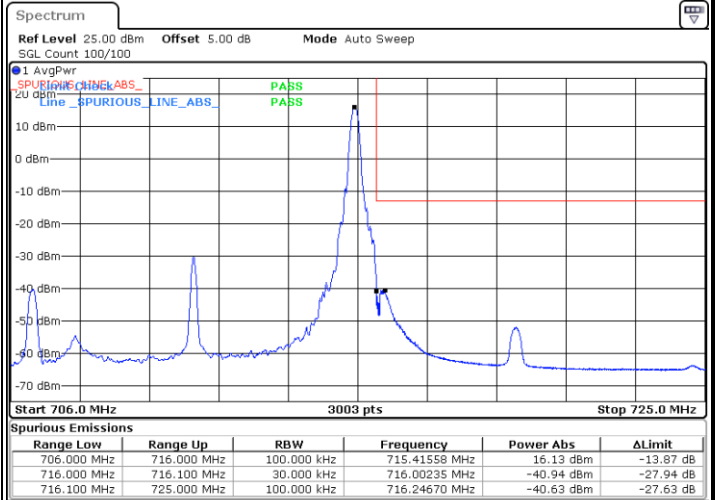
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



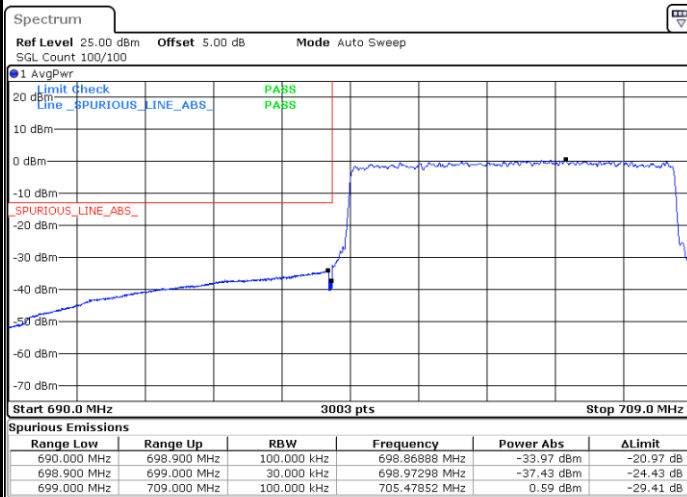
Date: 28 JUN 2022 05:48:18

Highest Band Edge / 1 RB



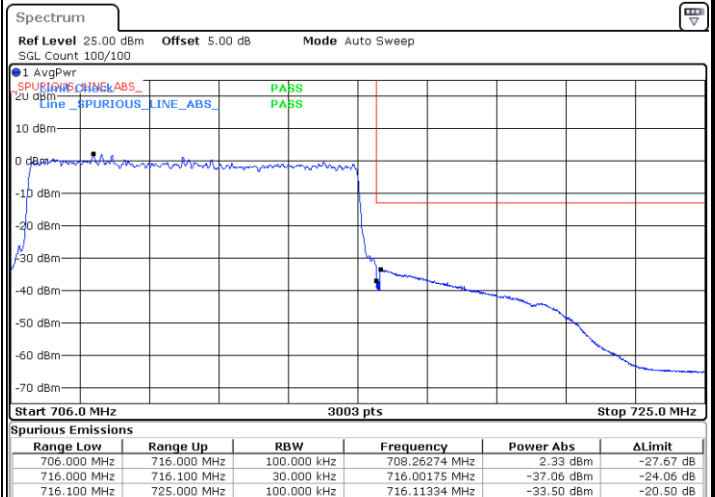
Date: 28 JUN 2022 06:02:23

Lowest Band Edge / Full RB



Date: 28 JUN 2022 06:17:16

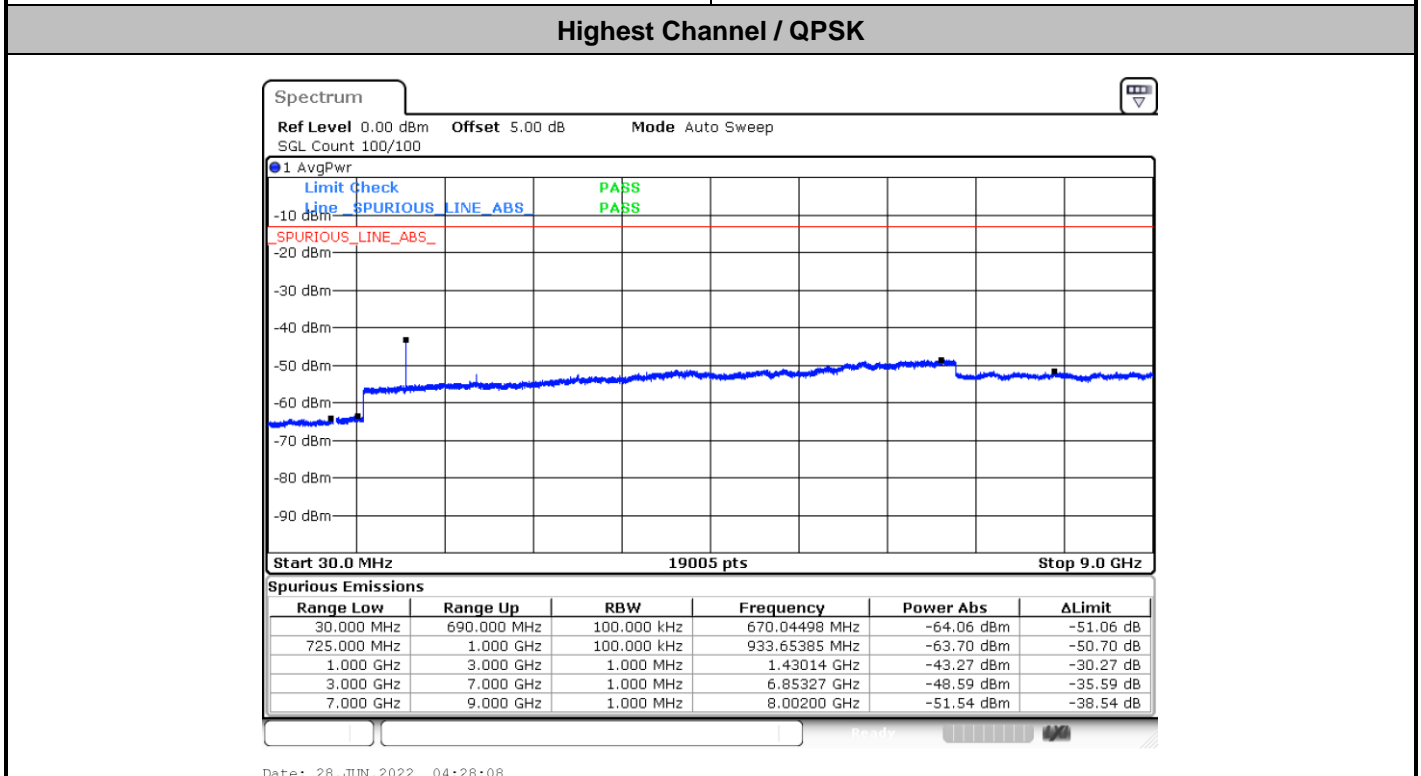
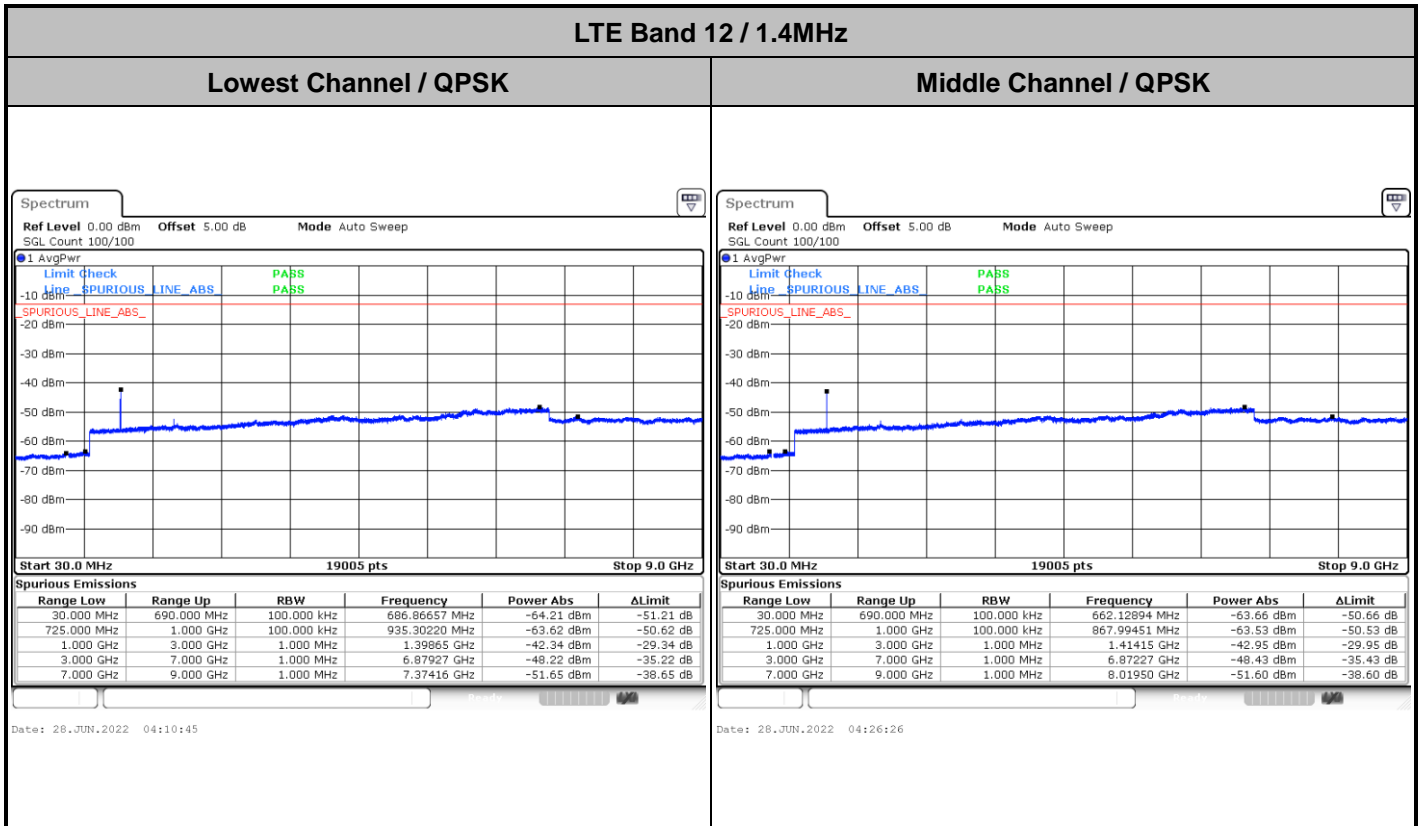
Highest Band Edge / Full RB



Date: 28 JUN 2022 06:03:44



# Conducted Spurious Emission

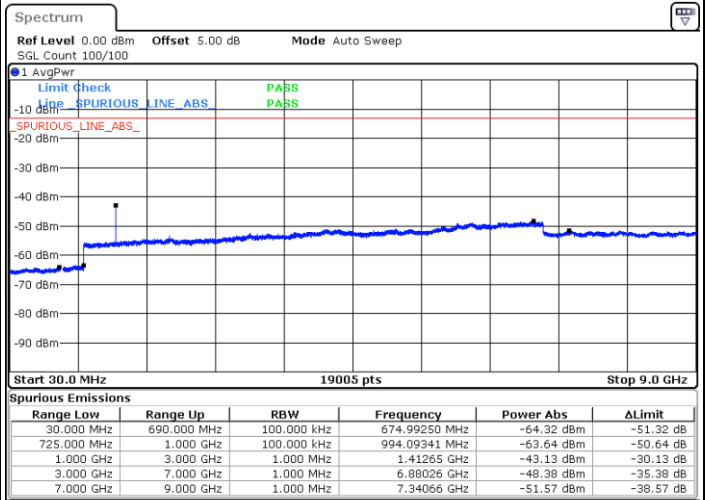
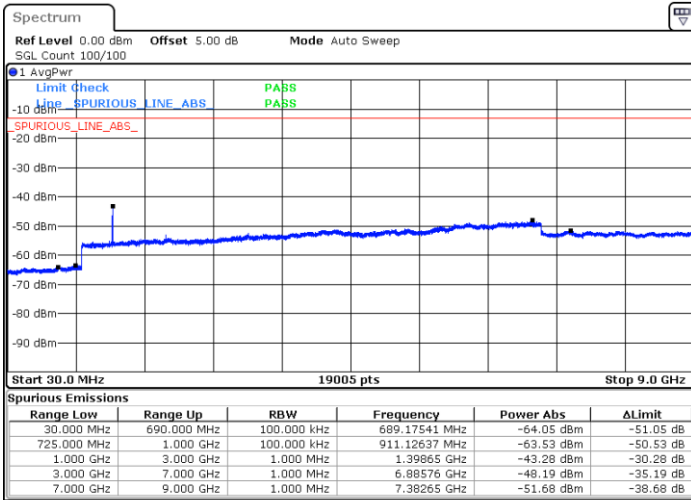




LTE Band 12 / 3MHz

Lowest Channel / QPSK

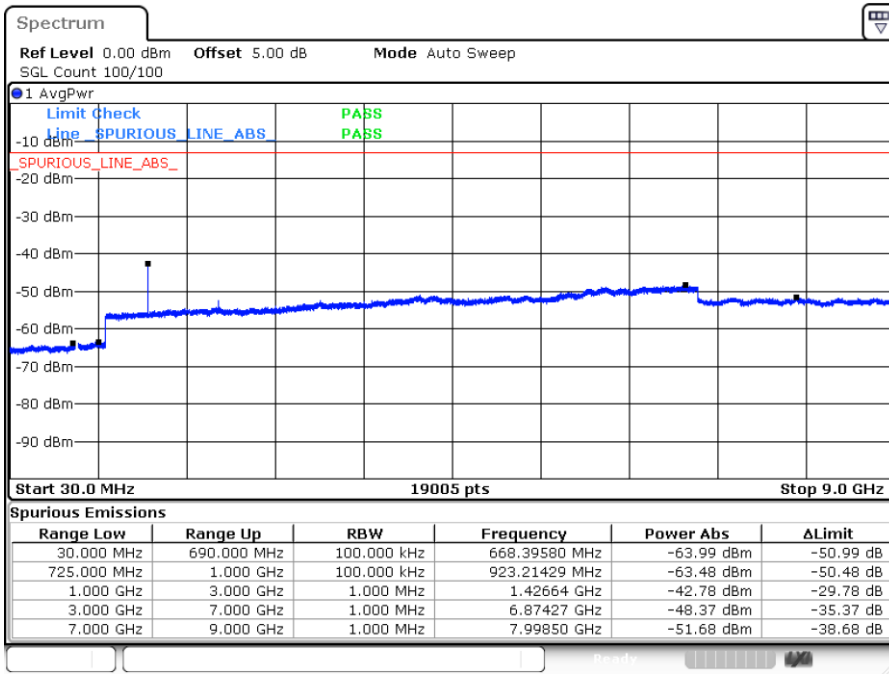
Middle Channel / QPSK



Date: 28. JUN. 2022 04:40:32

Date: 28. JUN. 2022 04:55:55

Highest Channel / QPSK



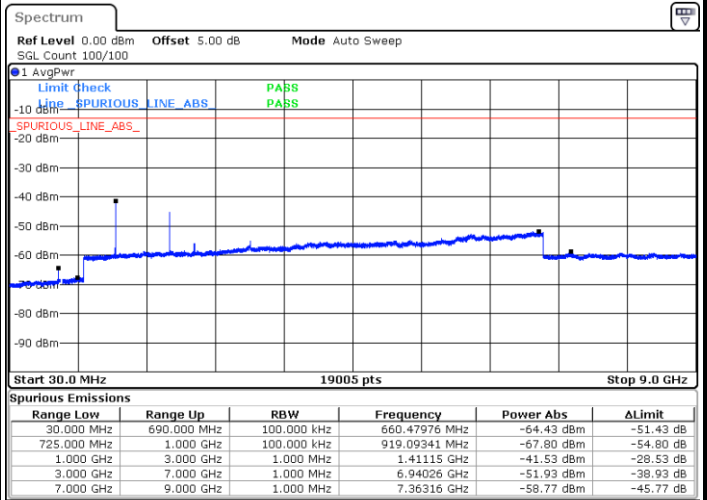
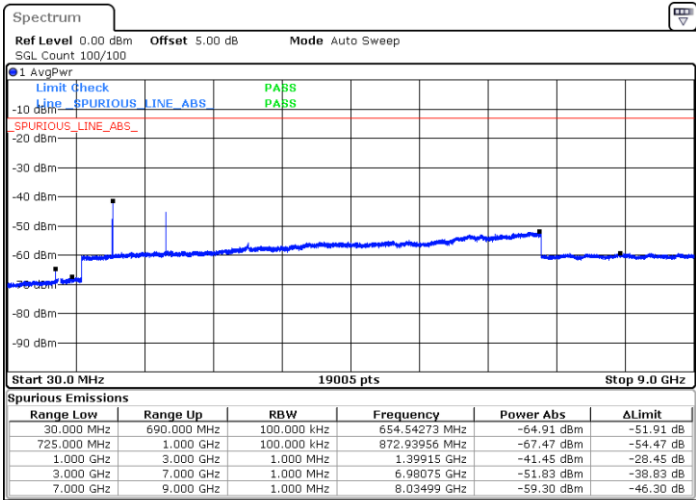
Date: 28. JUN. 2022 04:57:37



LTE Band 12 / 5MHz

Lowest Channel / QPSK

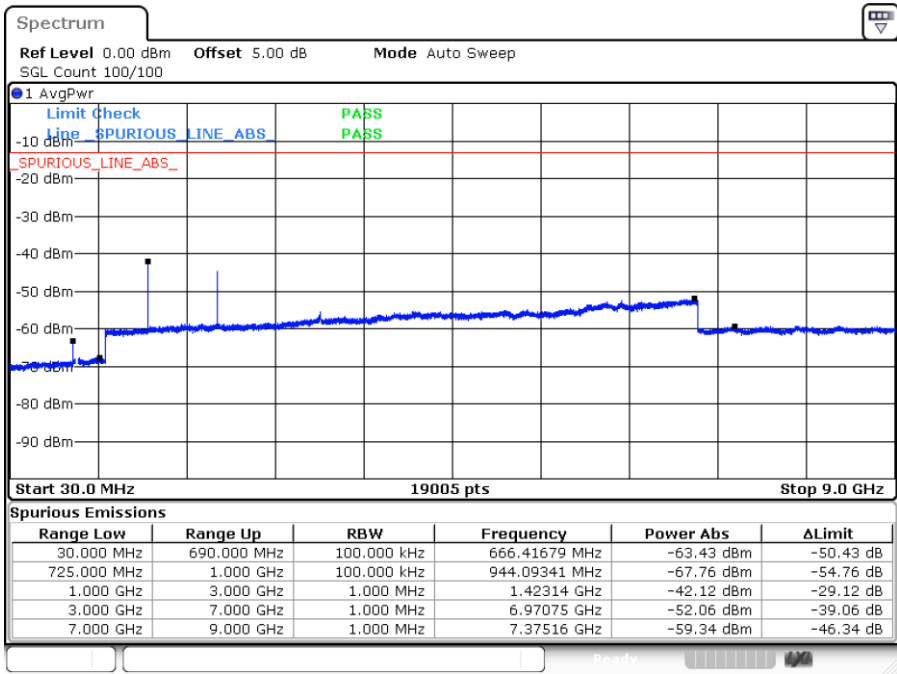
Middle Channel / QPSK



Date: 28 JUN 2022 05:11:58

Date: 28 JUN 2022 05:25:37

Highest Channel / QPSK



Date: 28 JUN 2022 05:27:19

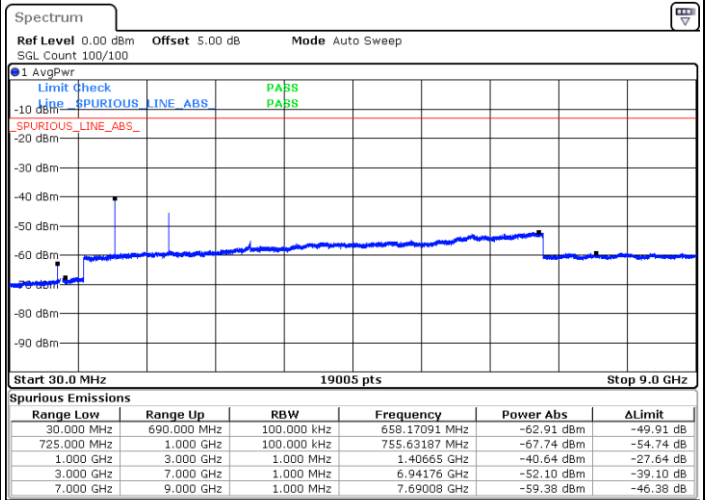
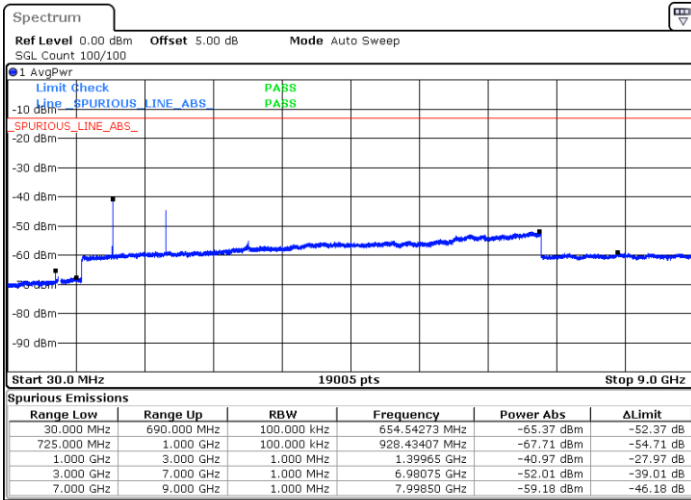




LTE Band 12 / 10MHz

Lowest Channel / QPSK

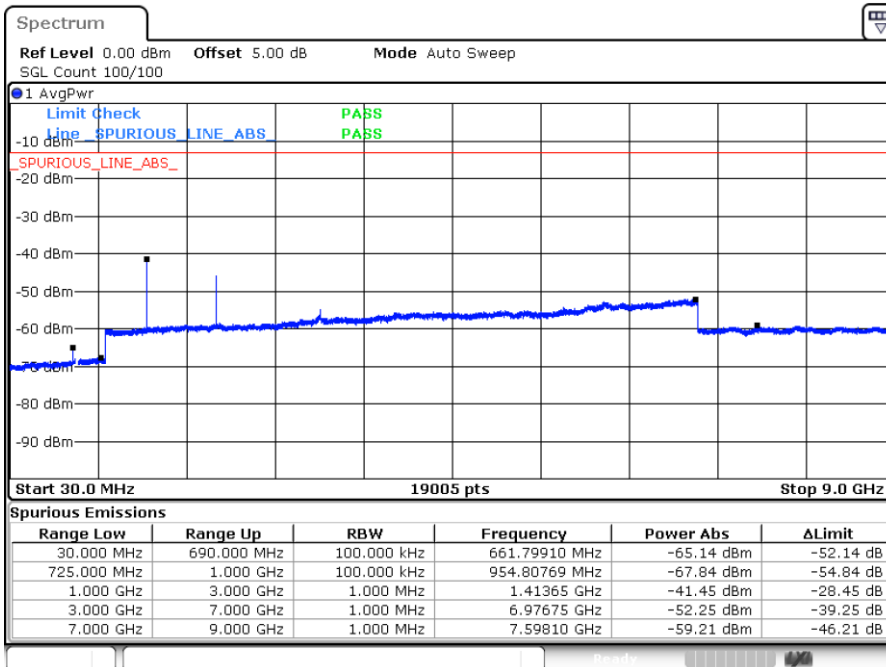
Middle Channel / QPSK



Date: 28 JUN 2022 05:42:57

Date: 28 JUN 2022 05:55:21

Highest Channel / QPSK



Date: 28 JUN 2022 05:57:02



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0092	PASS
40	Normal Voltage	0.0064	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0093	
-20	Normal Voltage	0.0112	
-30	Normal Voltage	0.0132	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0034	

Note:

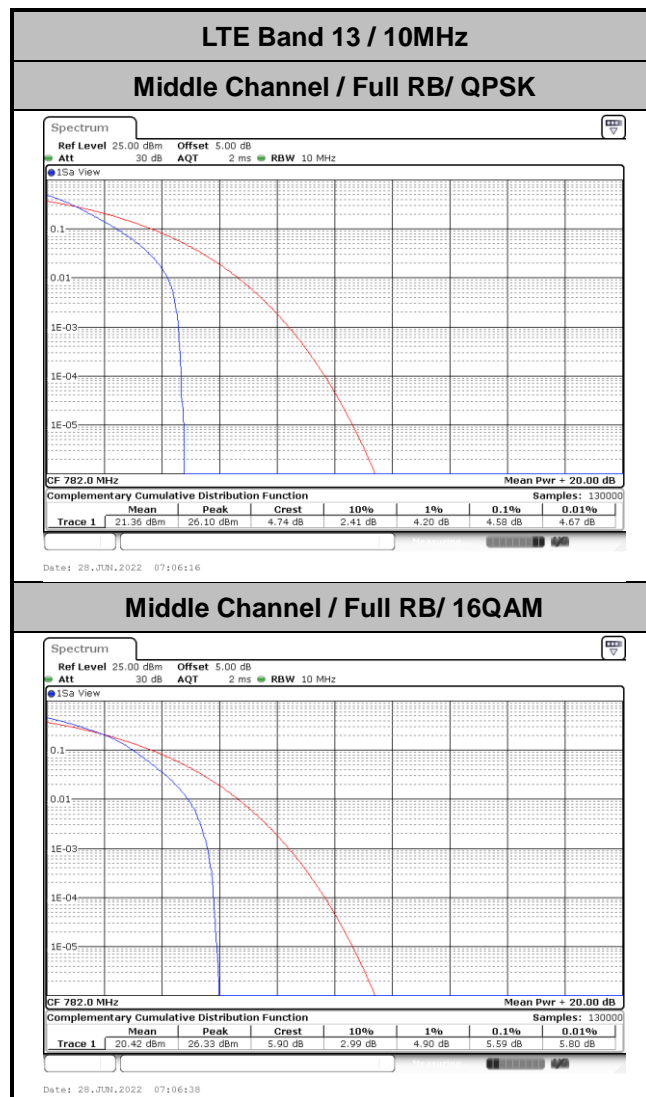
- 3. Normal Voltage =3.87V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.25 V.
- 4. Note: The frequency fundamental emissions stay within the authorized frequency block.

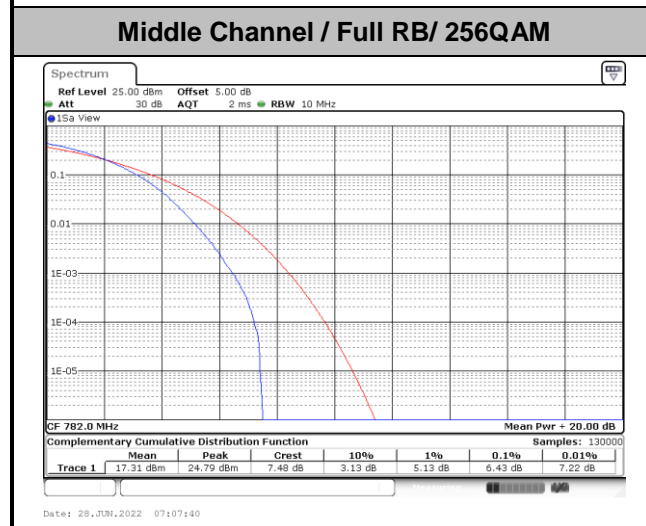
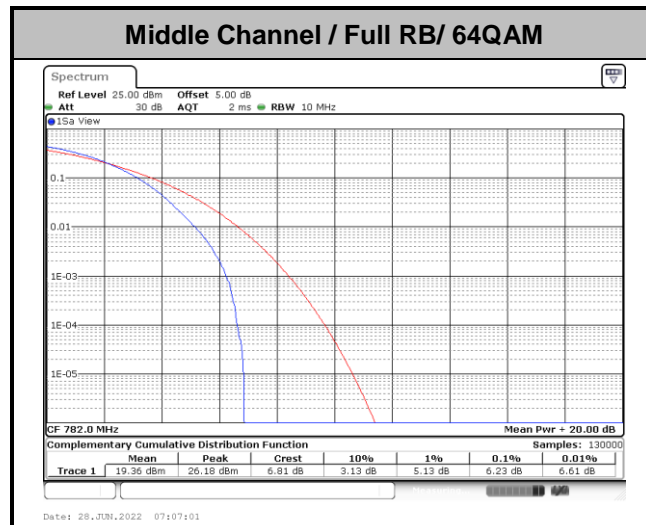


# LTE Band 13

## Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.59	6.23	6.43	PASS

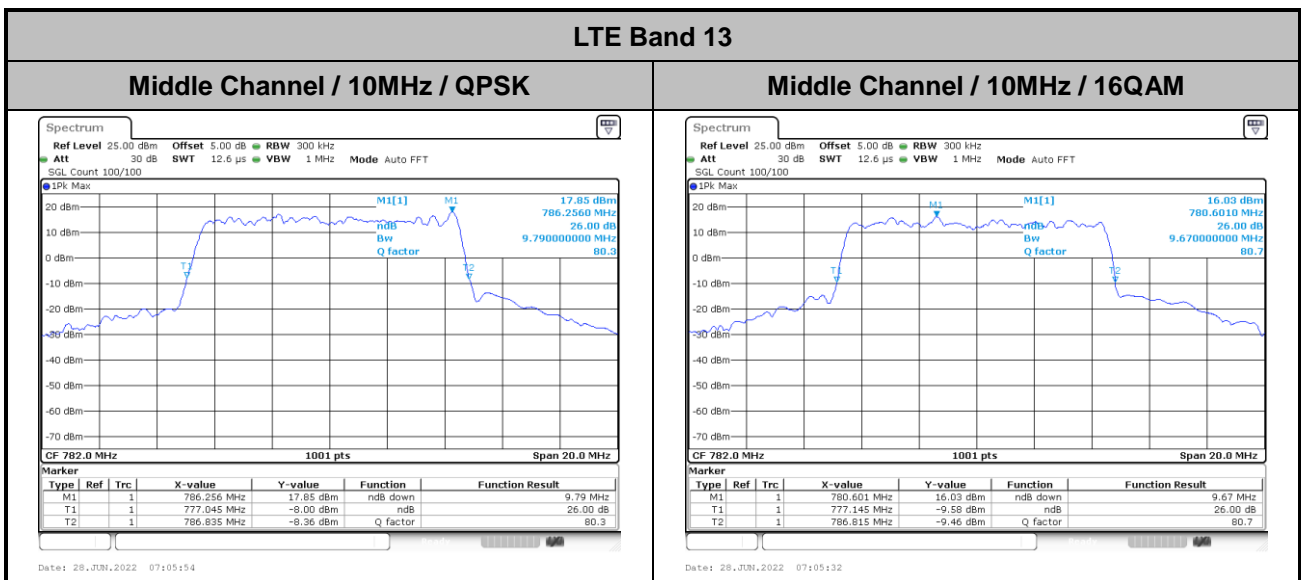






**26dB Bandwidth**

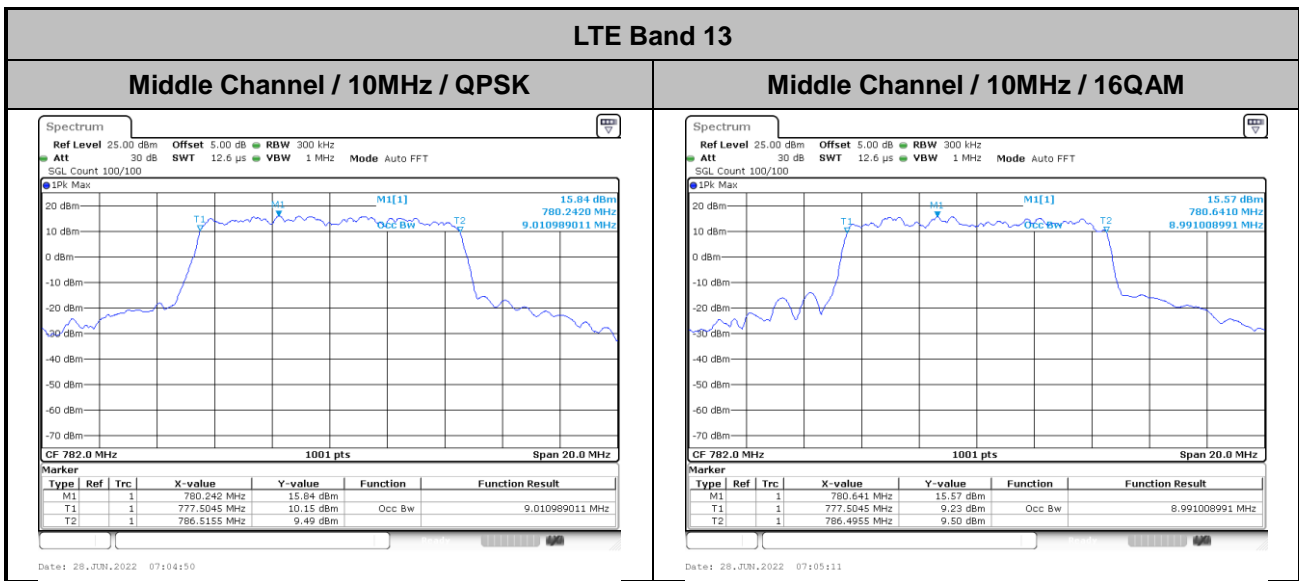
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.79	9.67





## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 13 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.011	8.991

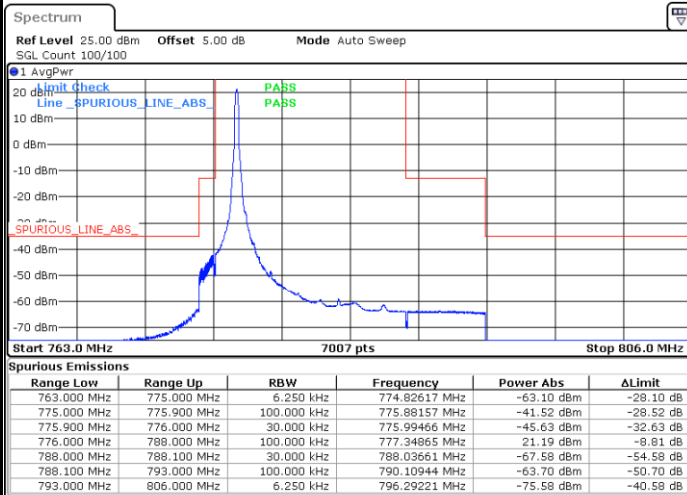




# Conducted Band Edge

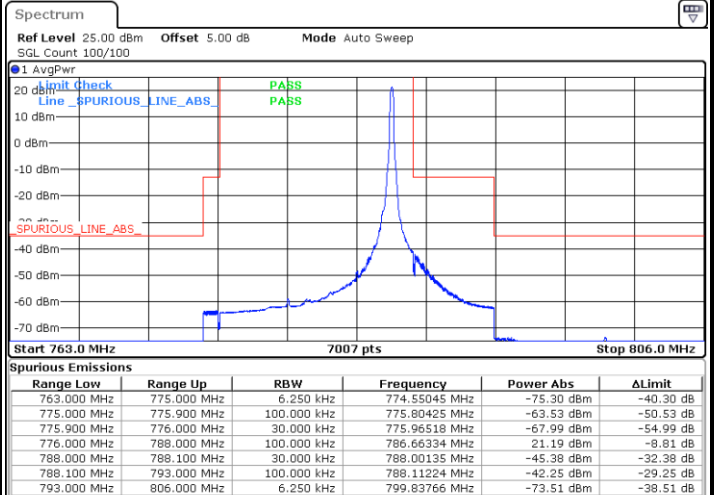
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



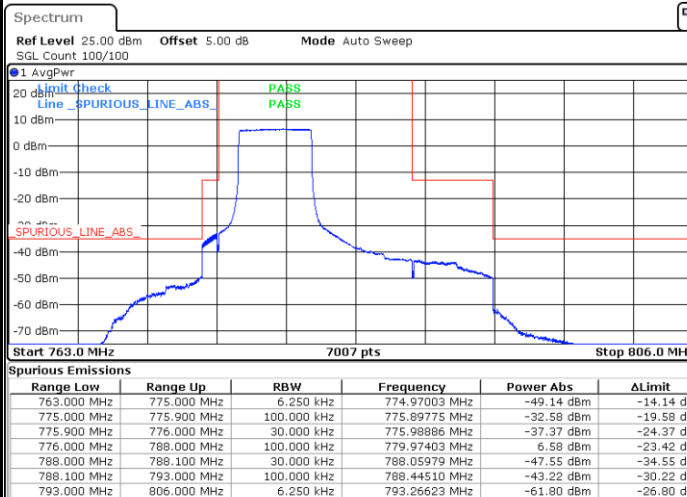
Date: 28 JUN 2022 07:57:22

### Highest Band Edge / 1 RB



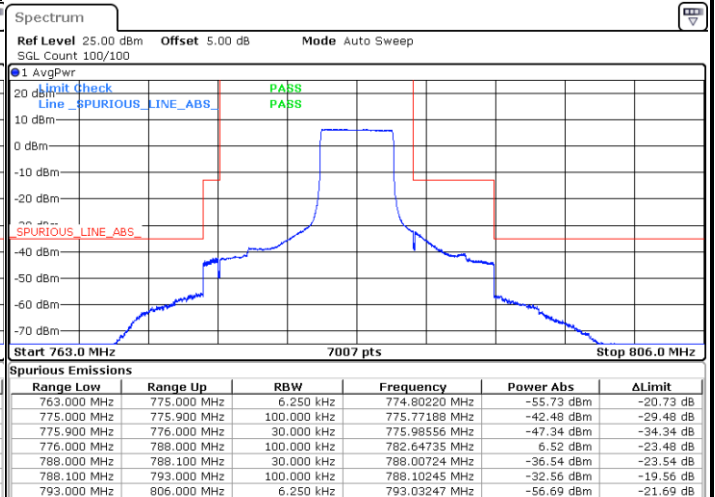
Date: 28 JUN 2022 08:01:02

### Lowest Band Edge / Full RB



Date: 28 JUN 2022 07:59:12

### Highest Band Edge / Full RB



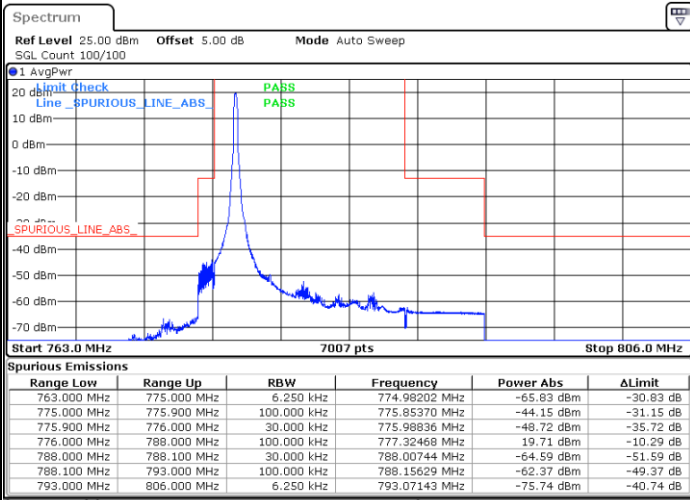
Date: 28 JUN 2022 08:02:53



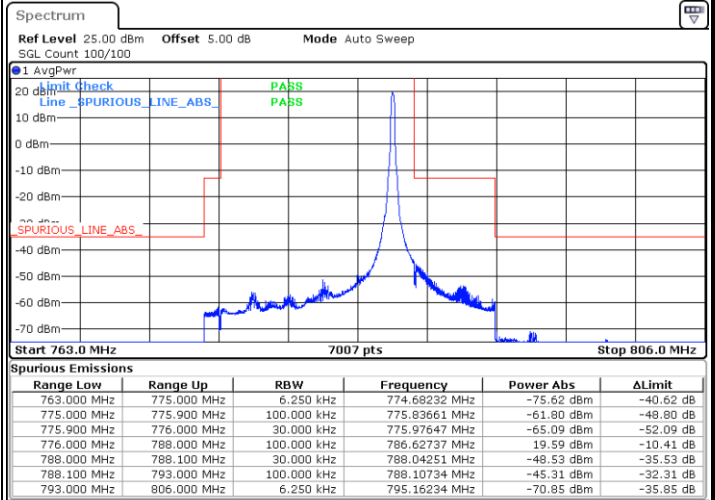
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



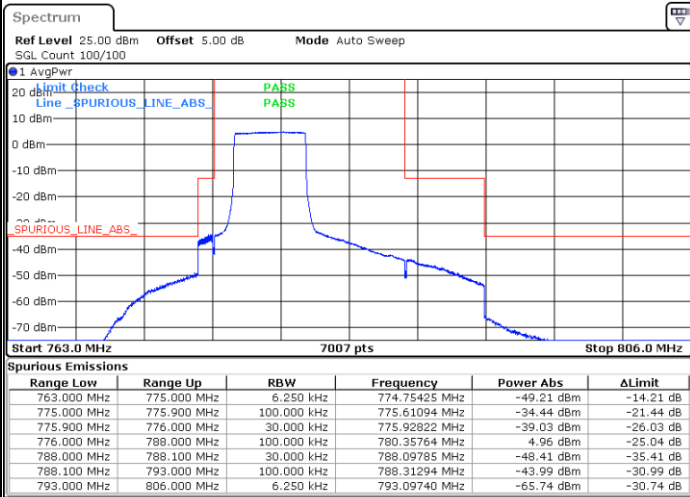
Date: 28 JUN 2022 06:24:35



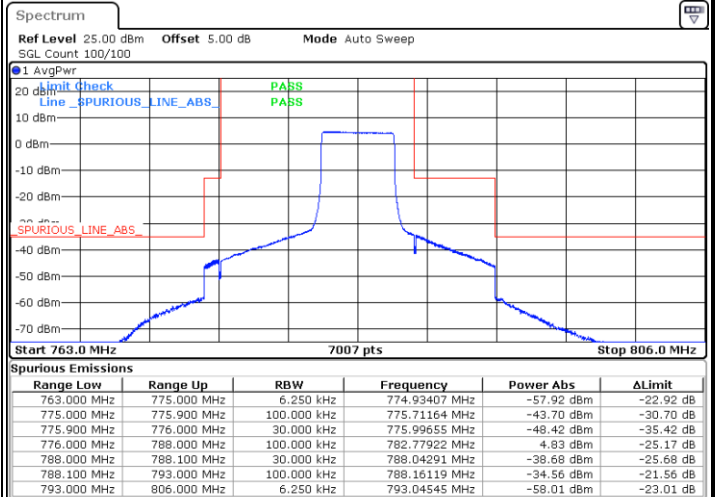
Date: 28 JUN 2022 06:38:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28 JUN 2022 06:30:06



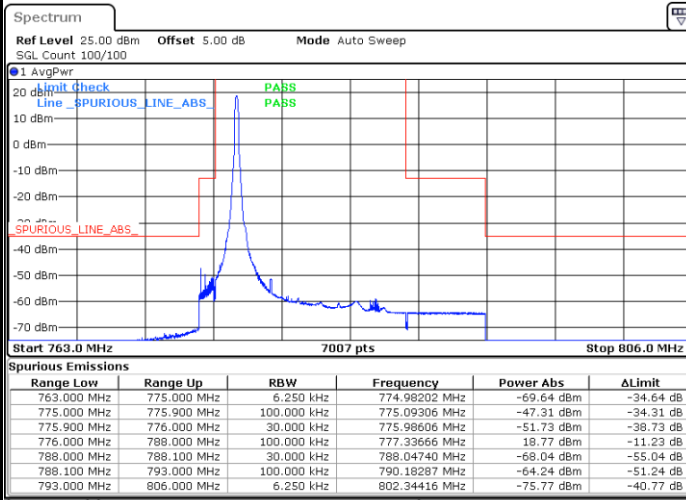
Date: 28 JUN 2022 06:44:30



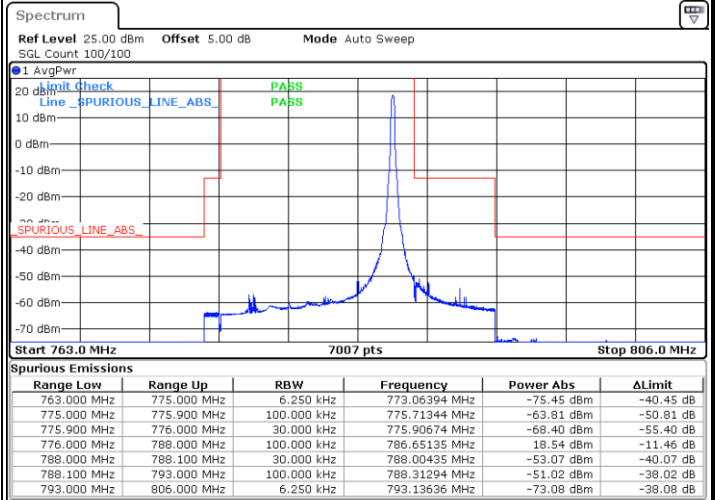


LTE Band 13 / 5MHz / 64QAM

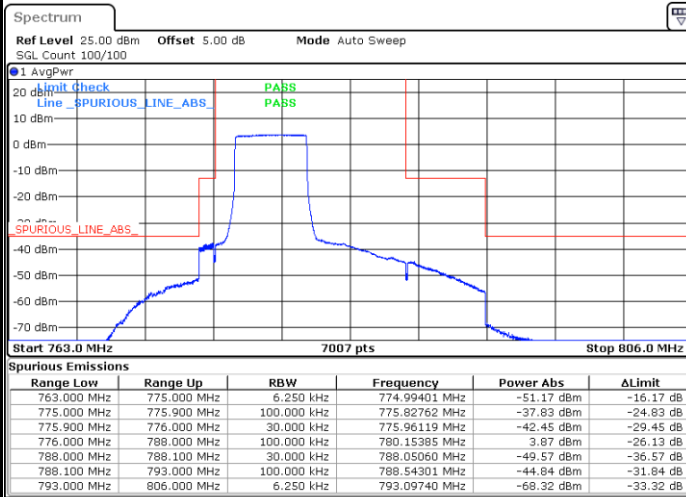
Lowest Band Edge / 1RB



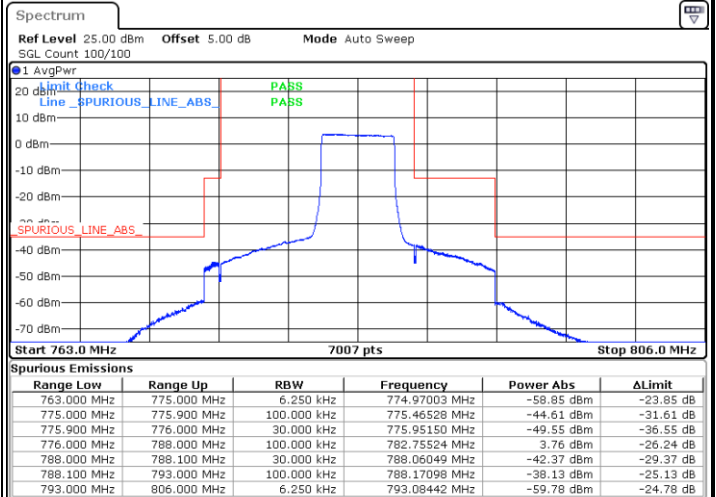
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

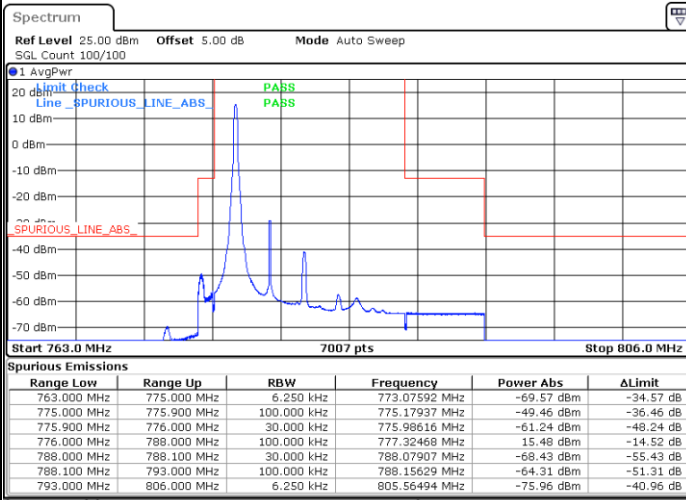




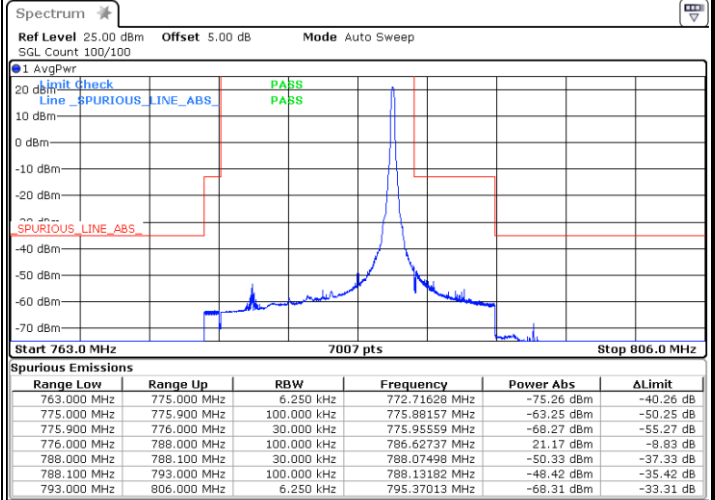
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



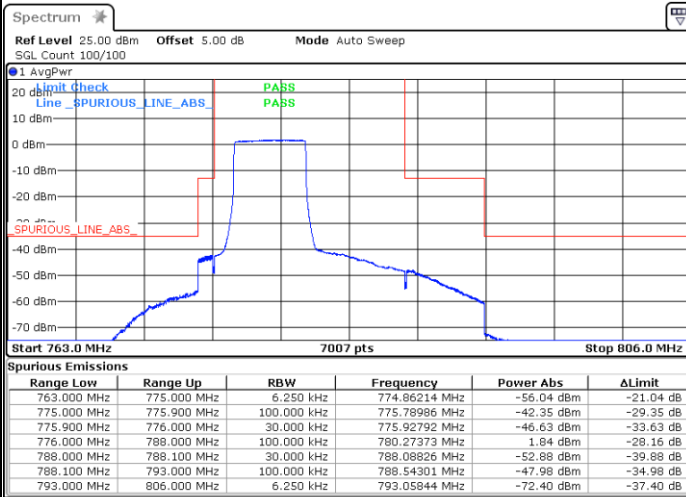
Date: 28 JUN 2022 07:21:06



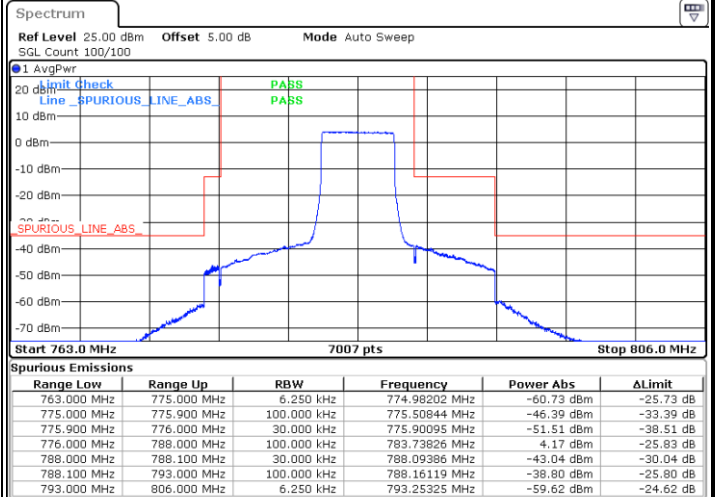
Date: 6 JUL 2022 17:51:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28 JUN 2022 07:18:58



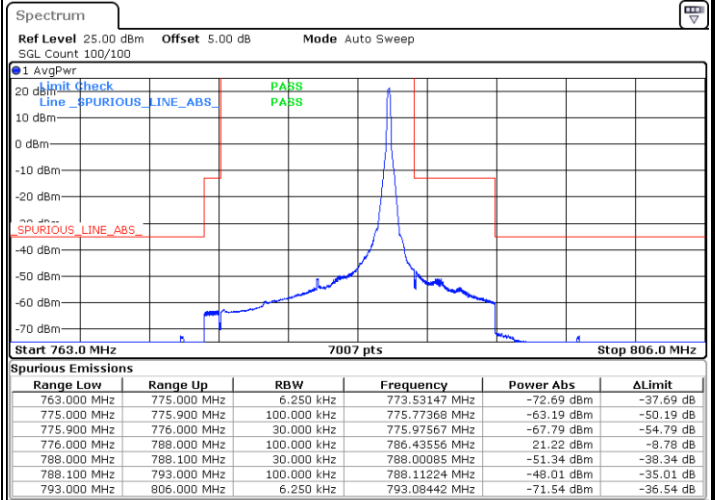
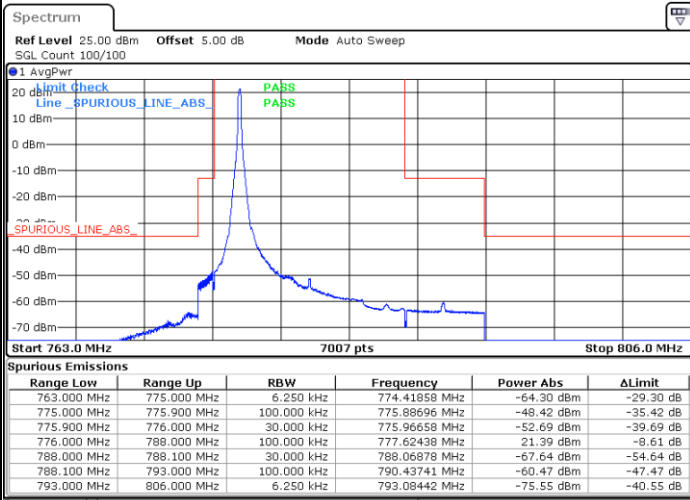
Date: 6 JUL 2022 17:53:08



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

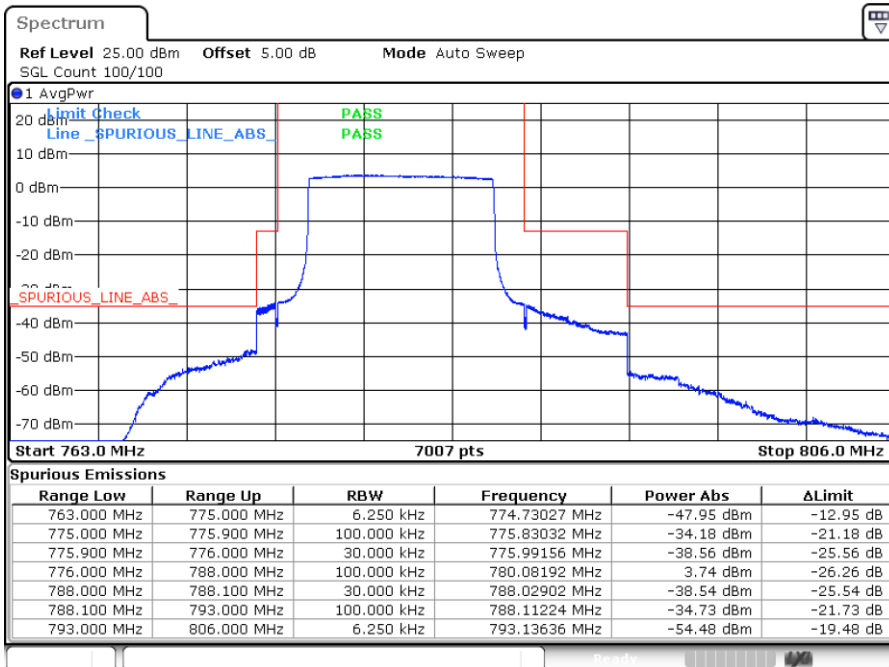
middle Band Edge / 1 RB



Date: 28 JUN 2022 08:04:43

Date: 28 JUN 2022 08:06:33

Middle Band Edge / Full RB



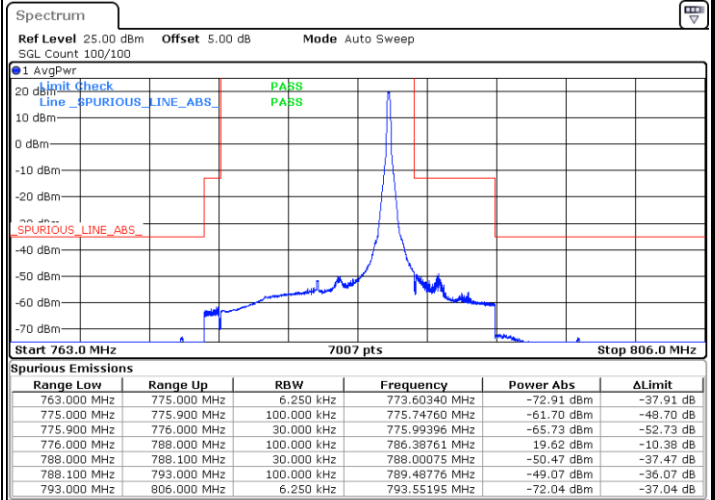
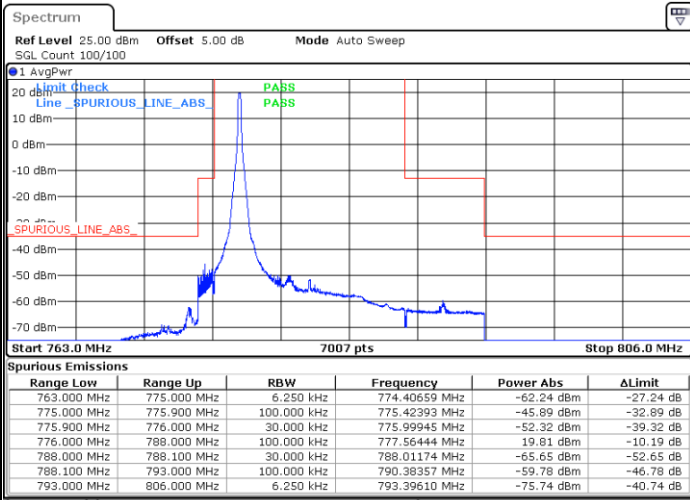
Date: 28 JUN 2022 08:08:23



LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB

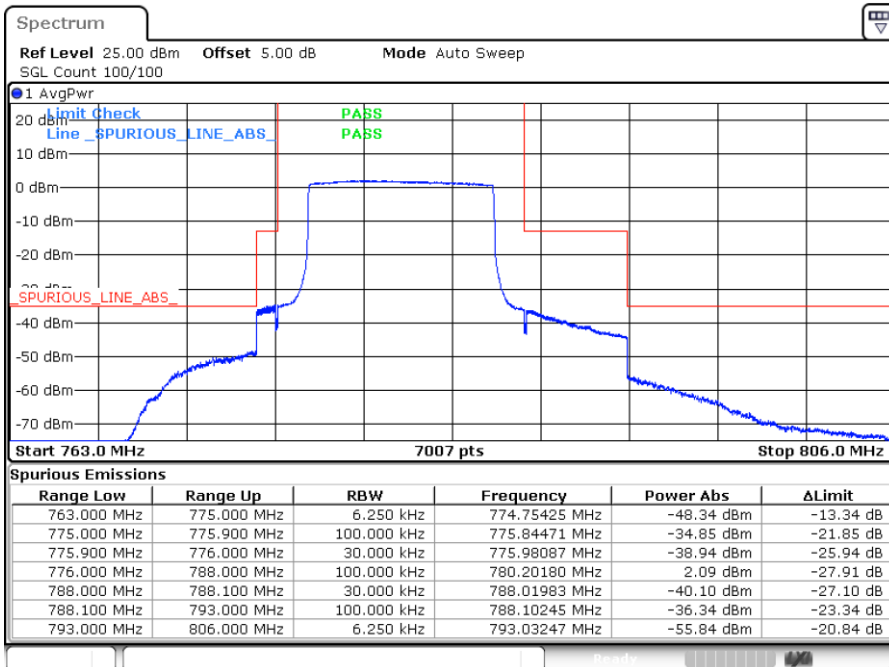
middle Band Edge / 1 RB



Date: 28 JUN 2022 06:51:42

Date: 28 JUN 2022 06:57:11

middle Band Edge / Full RB

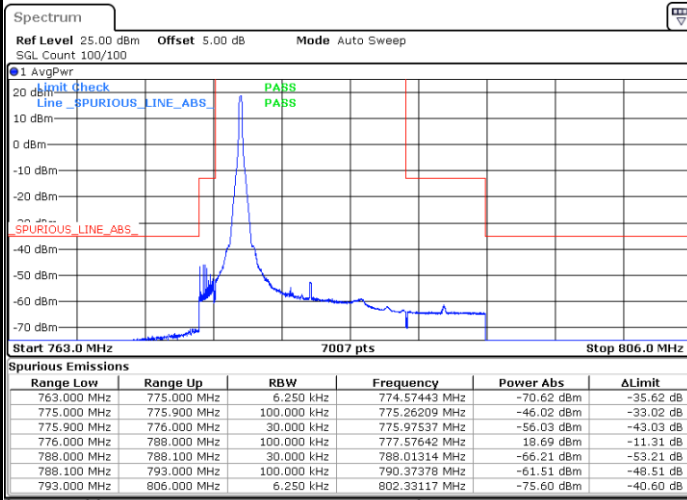


Date: 28 JUN 2022 07:02:39



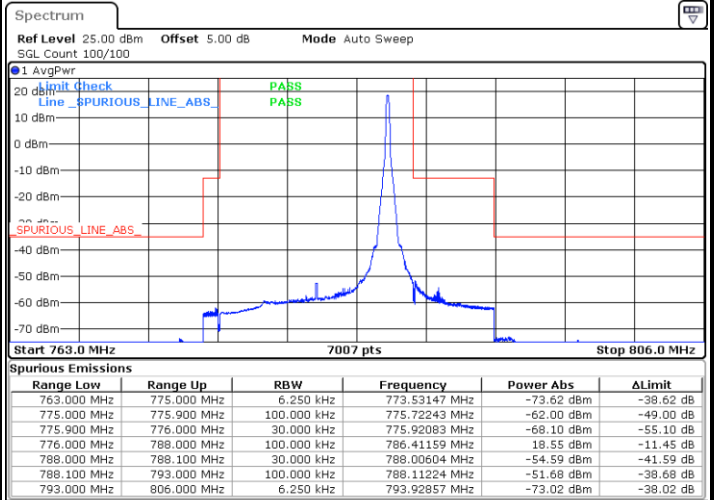
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



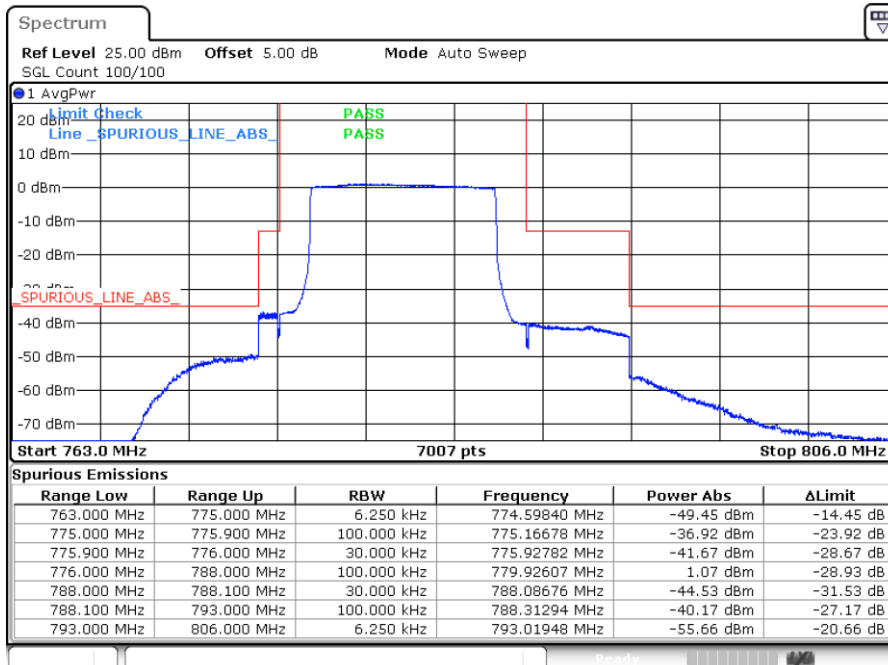
Date: 28 JUN 2022 06:53:31

middle Band Edge / 1 RB



Date: 28 JUN 2022 06:55:21

middle Band Edge / Full RB



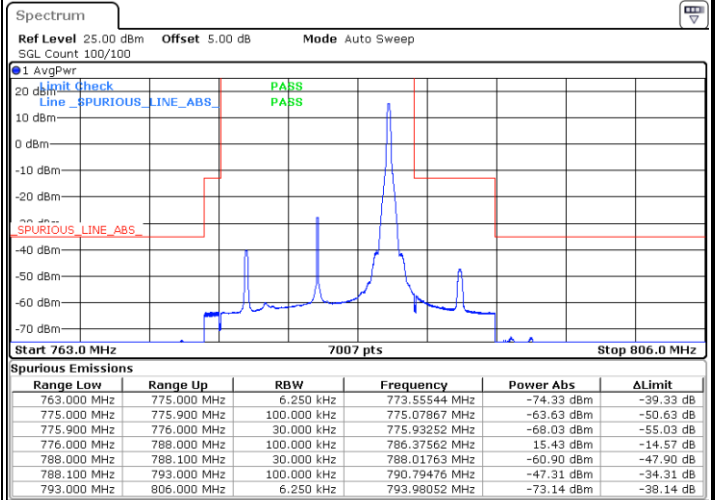
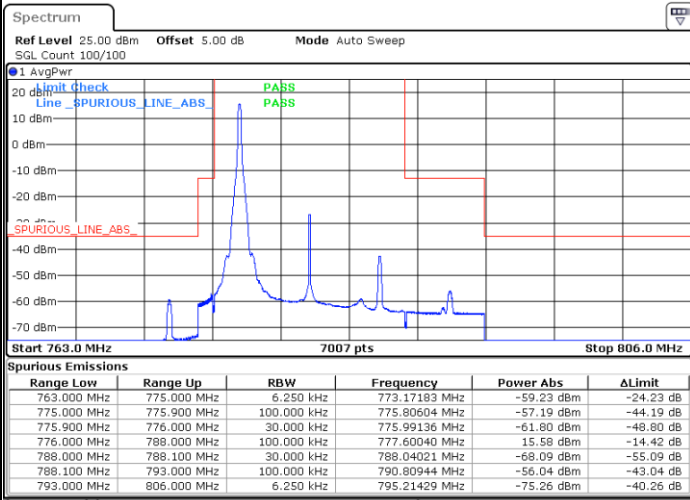
Date: 28 JUN 2022 07:04:29



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

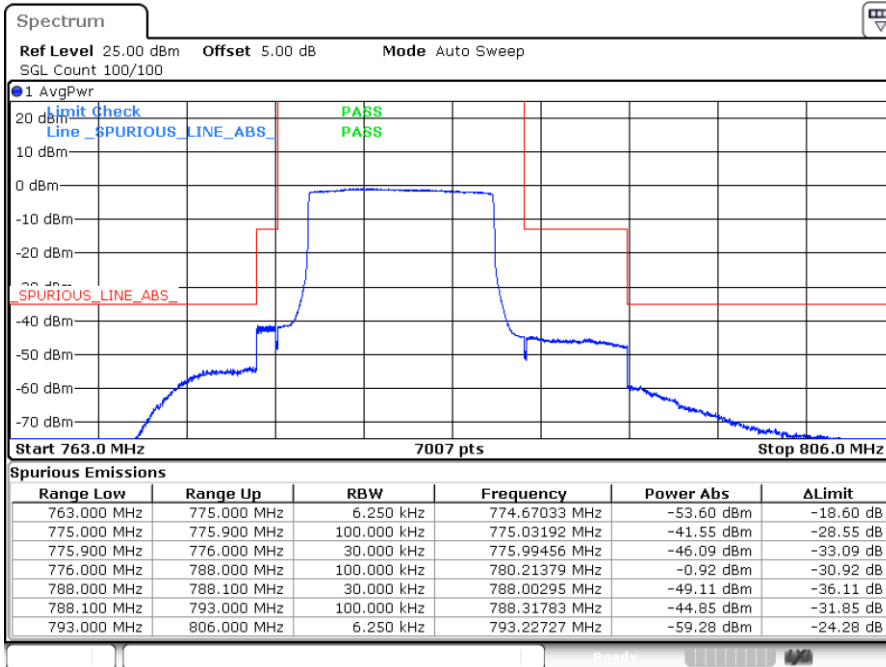
middle Band Edge / 1 RB



Date: 28 JUN 2022 07:11:22

Date: 28 JUN 2022 07:12:46

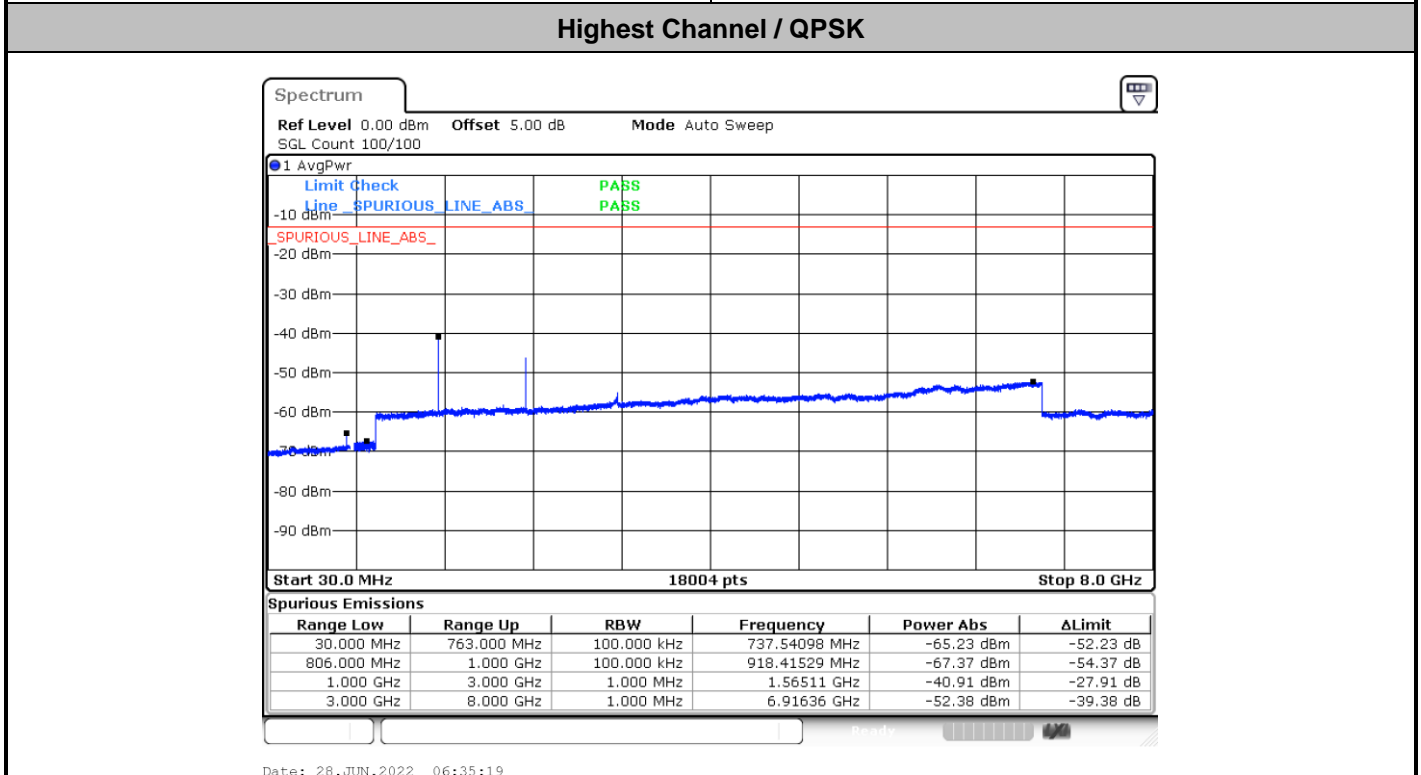
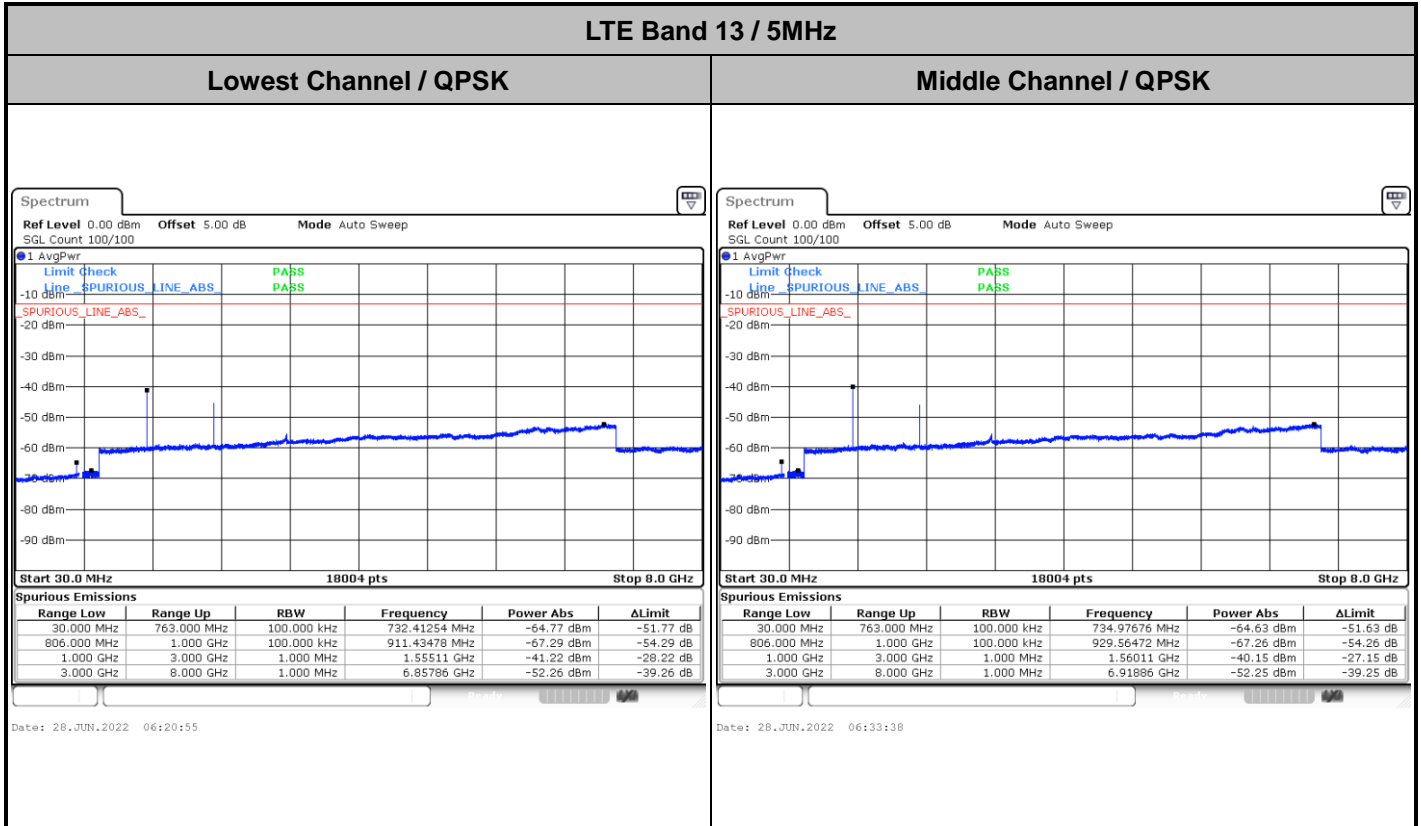
Middle Band Edge / Full RB



Date: 28 JUN 2022 07:14:29



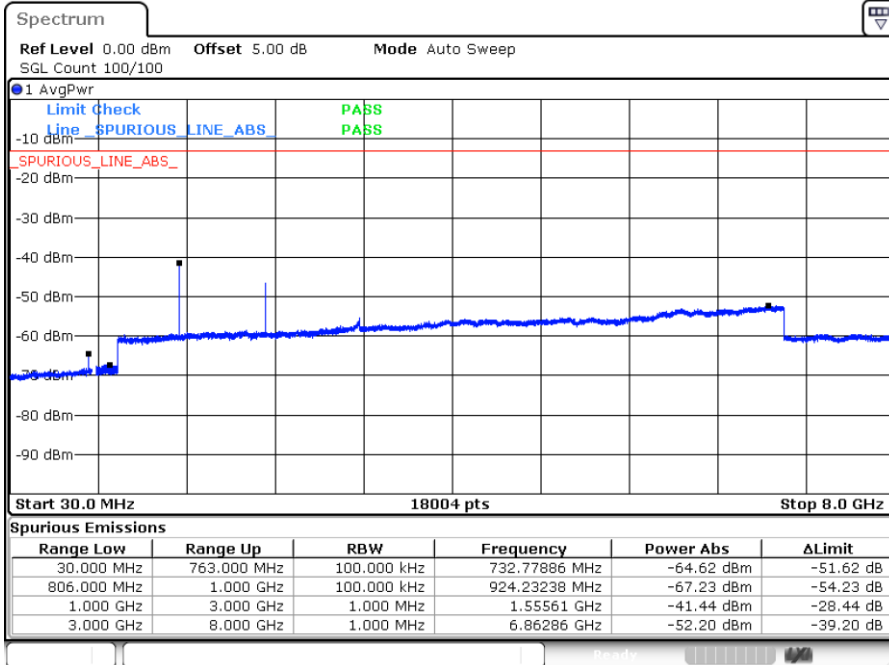
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 28 JUN 2022 06:48:02





Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0102	PASS
40	Normal Voltage	0.0081	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0095	
-30	Normal Voltage	0.0112	
20	Maximum Voltage	0.0126	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Note:

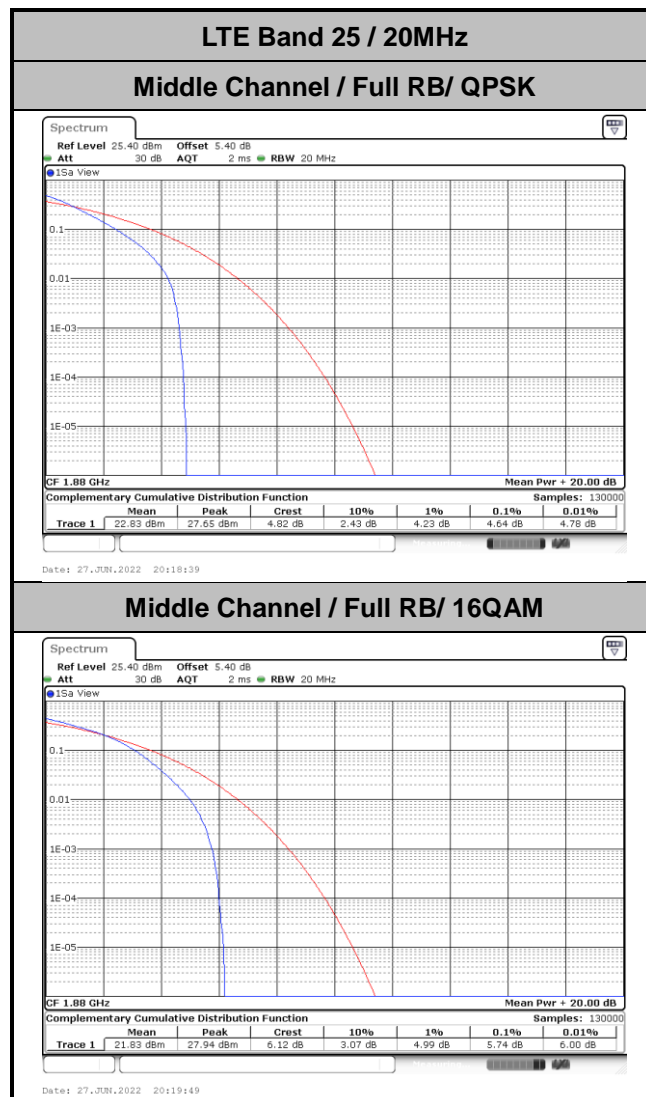
1. Normal Voltage =3.87V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.25.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

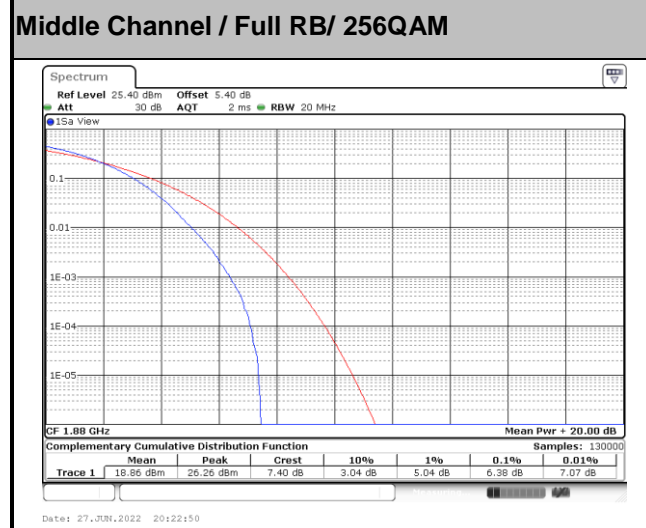
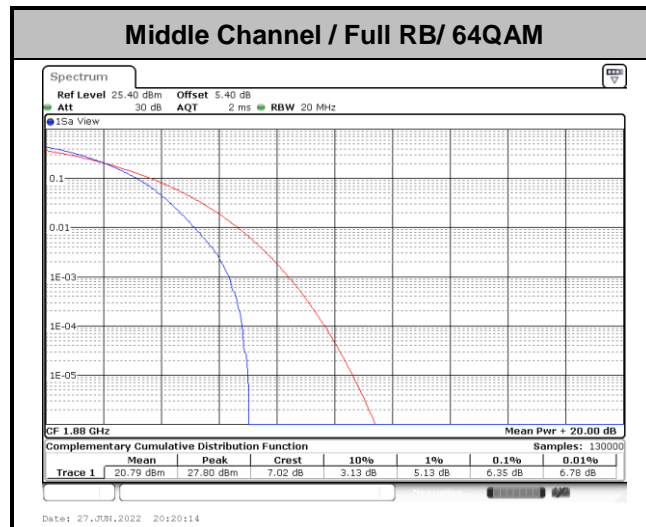


# LTE Band 25

## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.64	5.74	6.35	6.38	PASS

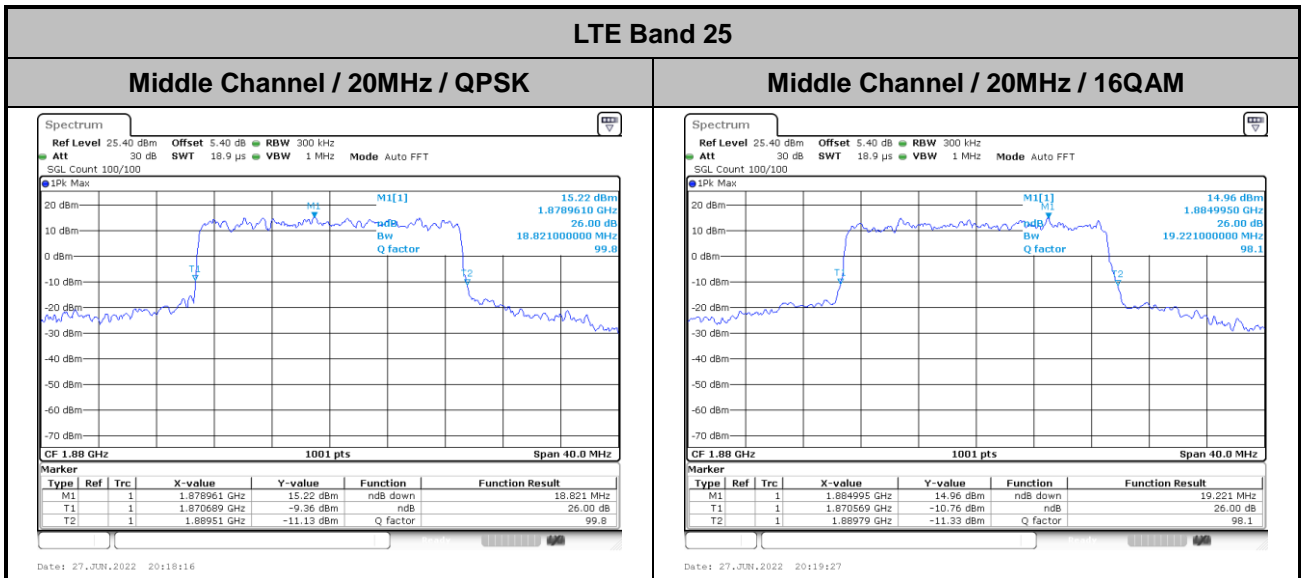






**26dB Bandwidth**

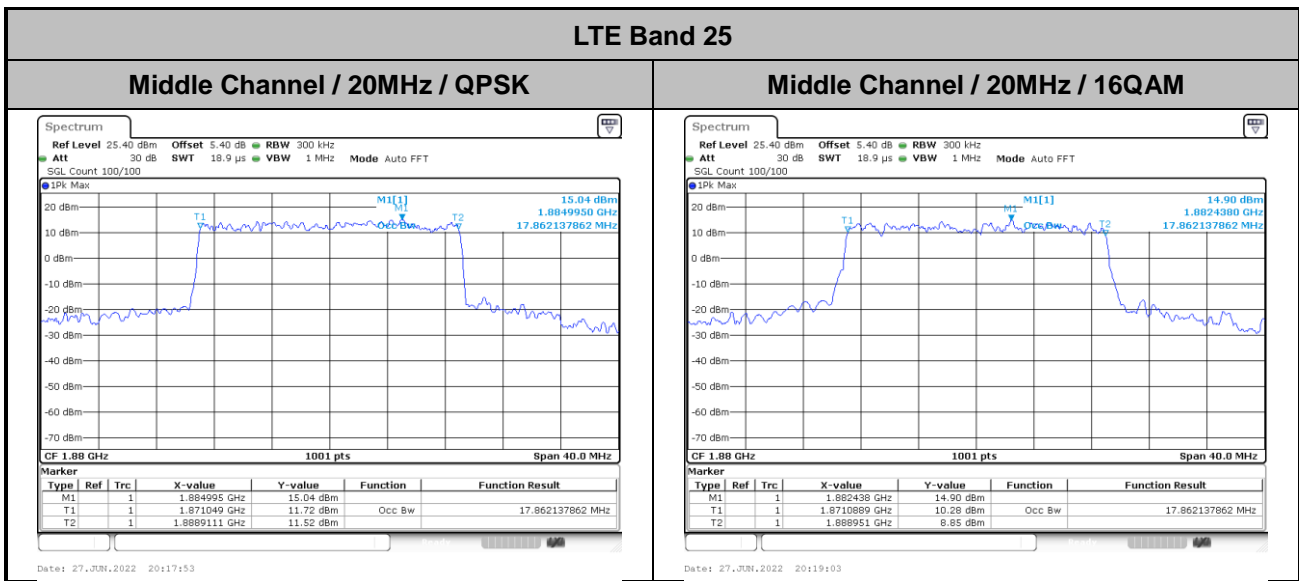
<b>Mode</b>	<b>LTE Band 25 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.82	19.22





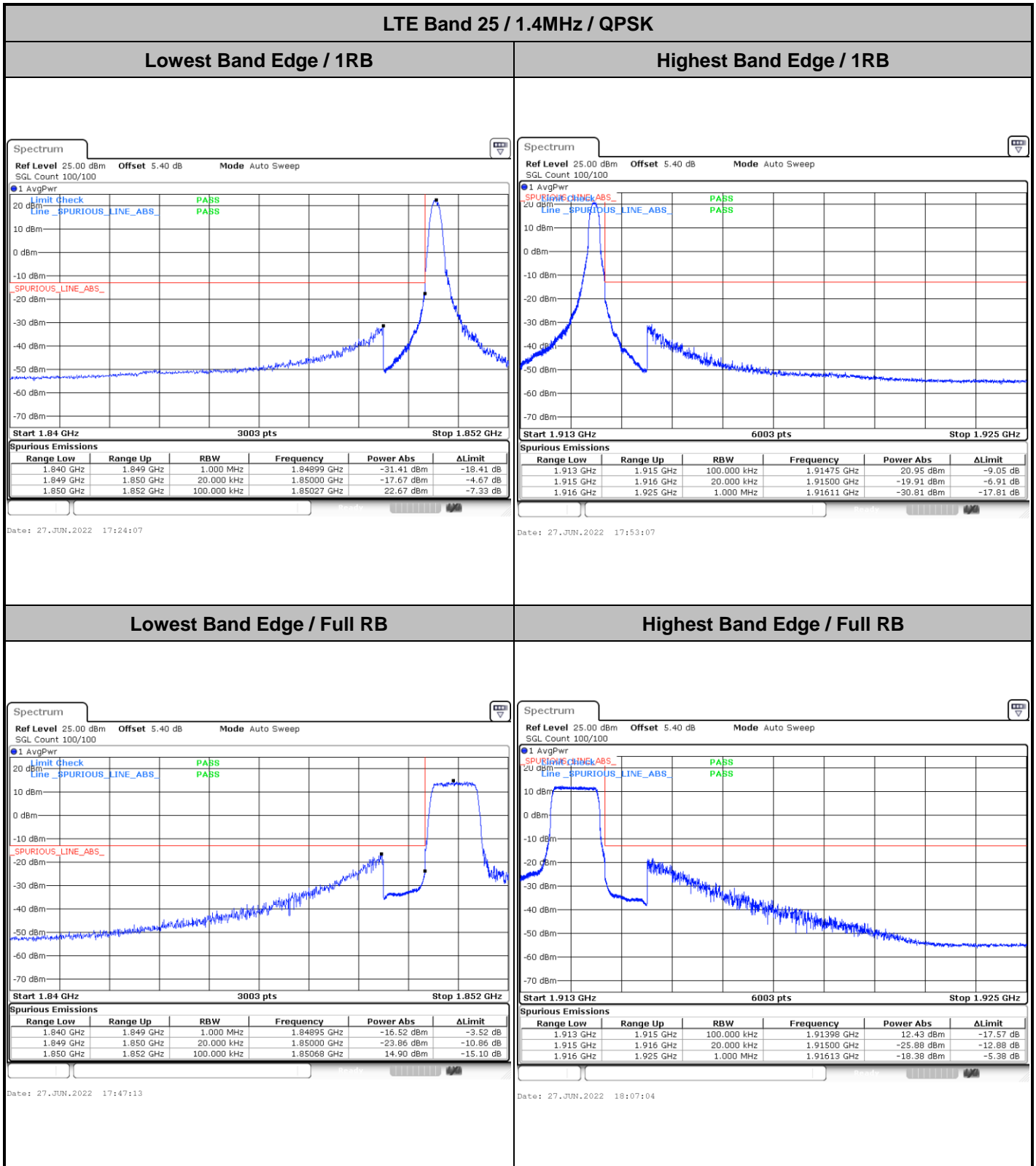
# Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.86





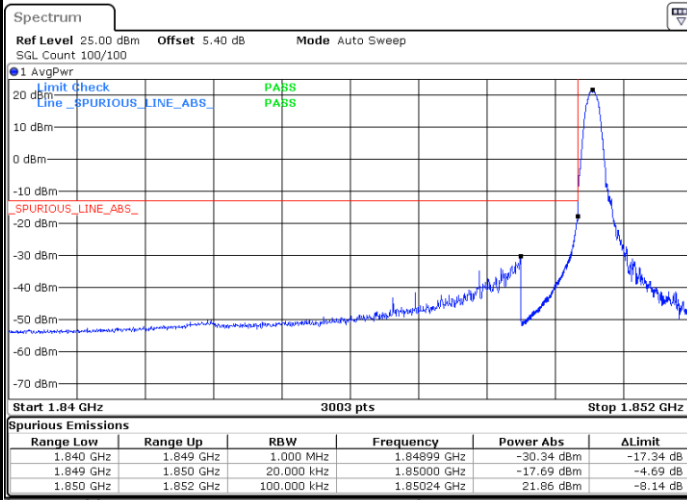
# Conducted Band Edge





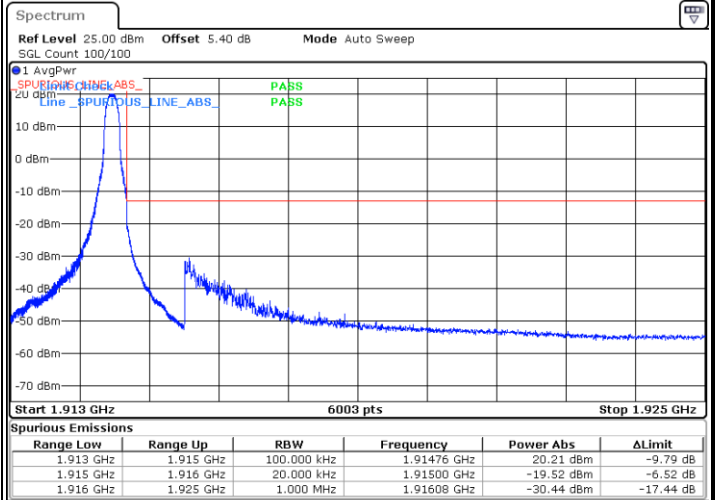
LTE Band 25 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



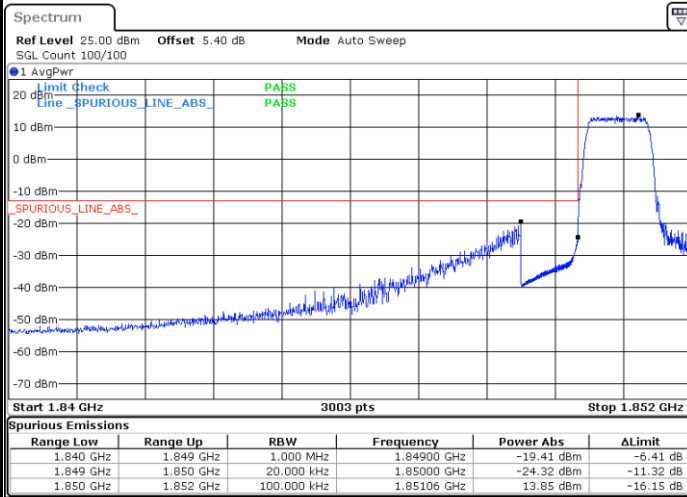
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Highest Band Edge / 1 RB



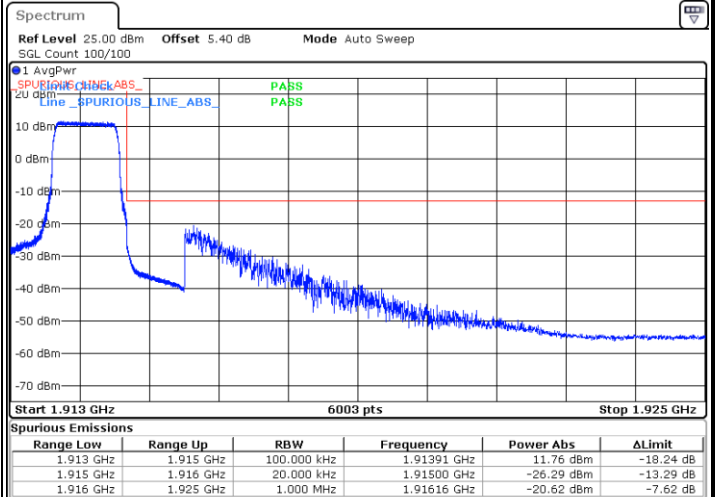
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Lowest Band Edge / Full RB



Date: 27 JUN 2022 17:45:28

Highest Band Edge / Full RB



Date: 27 JUN 2022 18:05:18