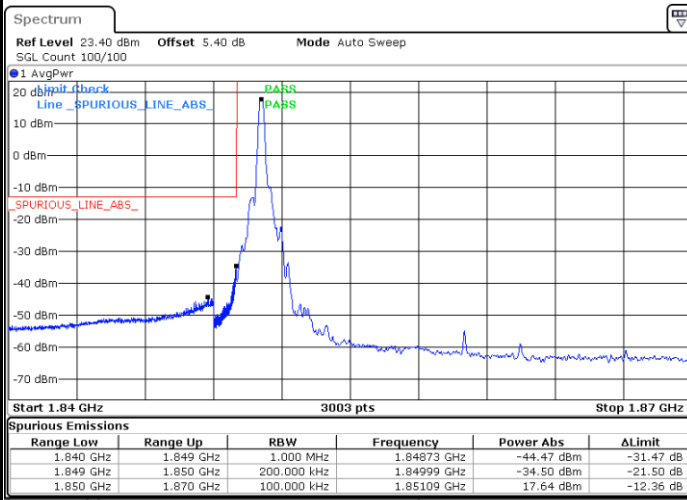




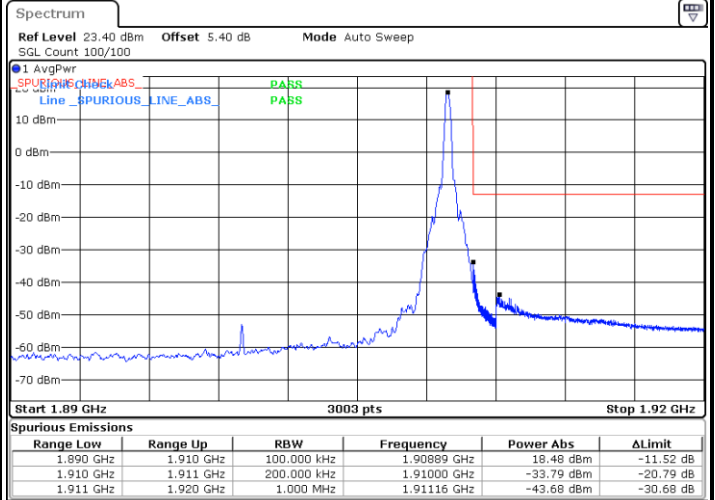
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



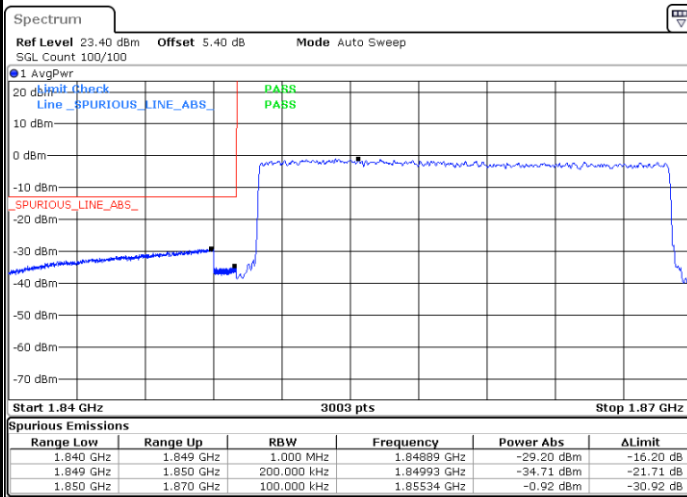
Date: 19.AUG.2021 22:06:01

Highest Band Edge / 1 RB



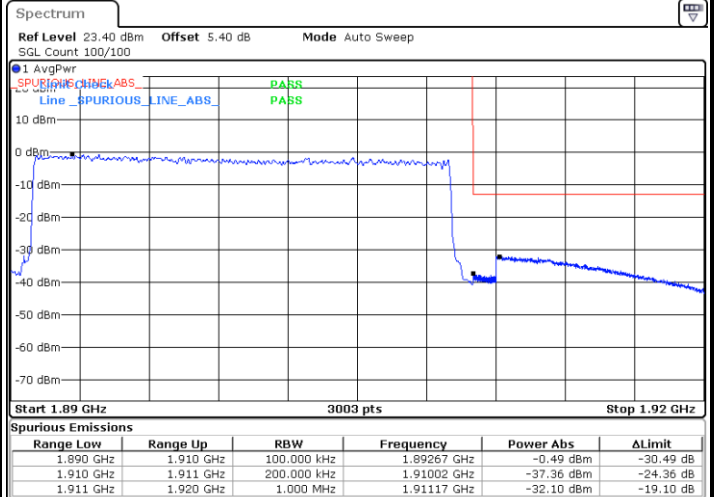
Date: 19.AUG.2021 22:08:57

Lowest Band Edge / Full RB



Date: 19.AUG.2021 22:07:00

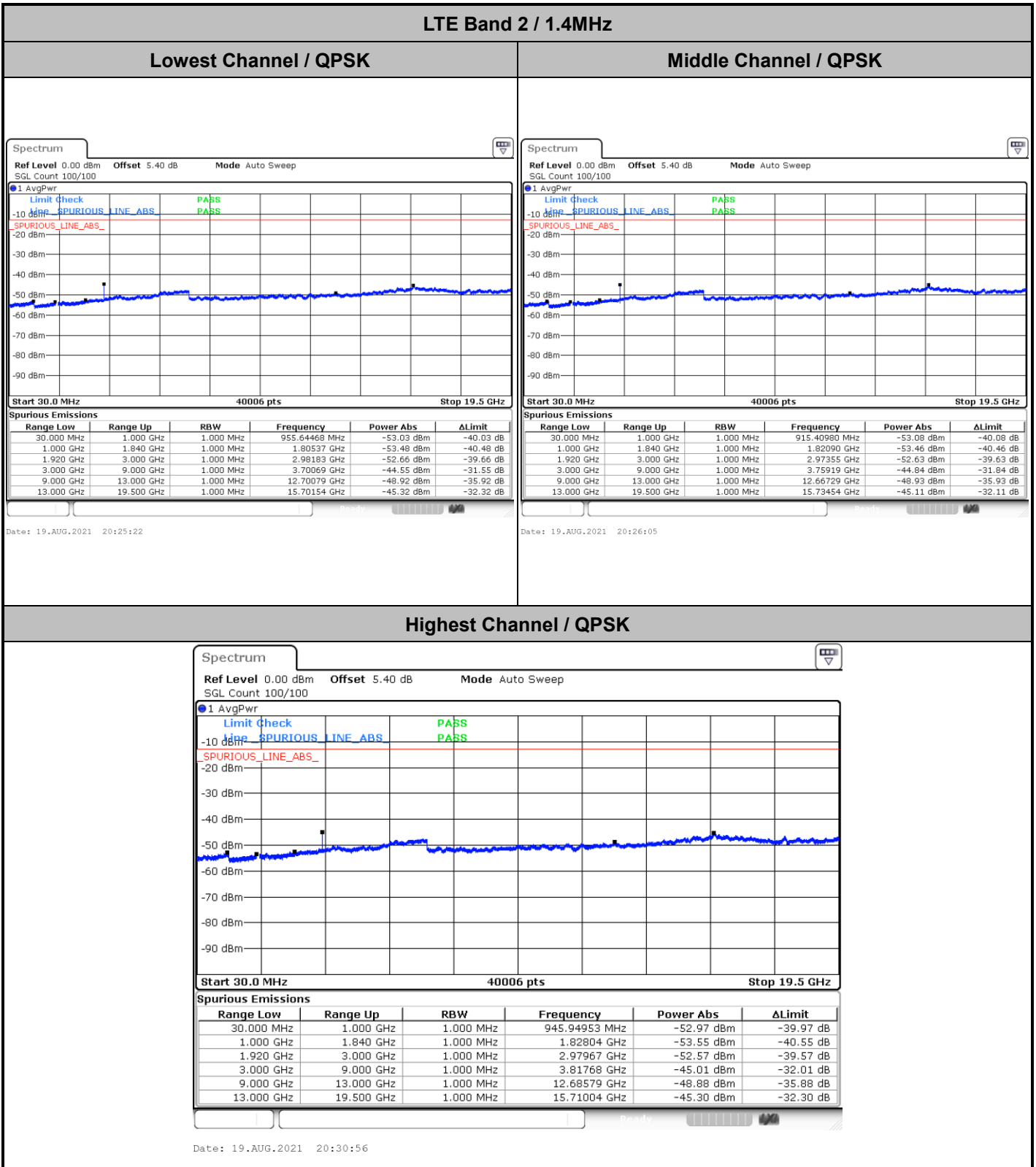
Highest Band Edge / Full RB



Date: 19.AUG.2021 22:07:58



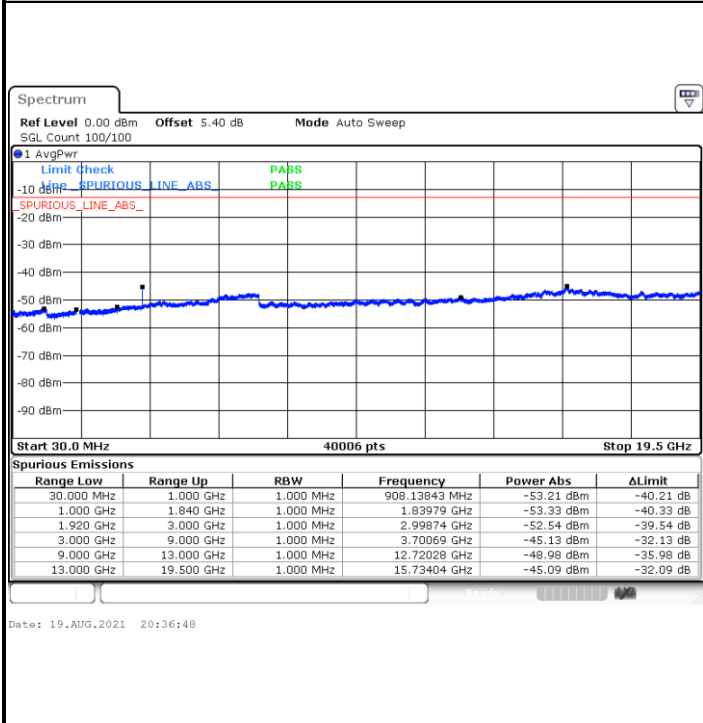
Conducted Spurious Emission



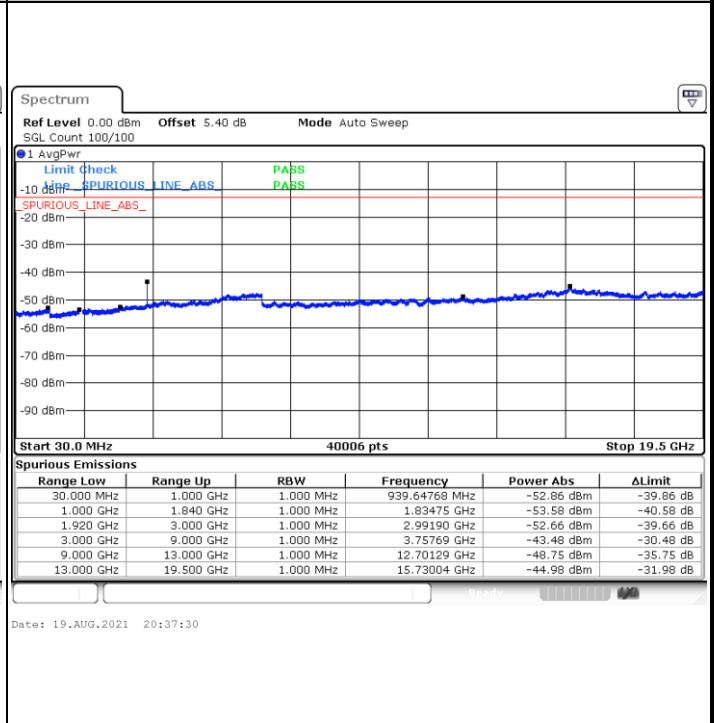


LTE Band 2 / 3MHz

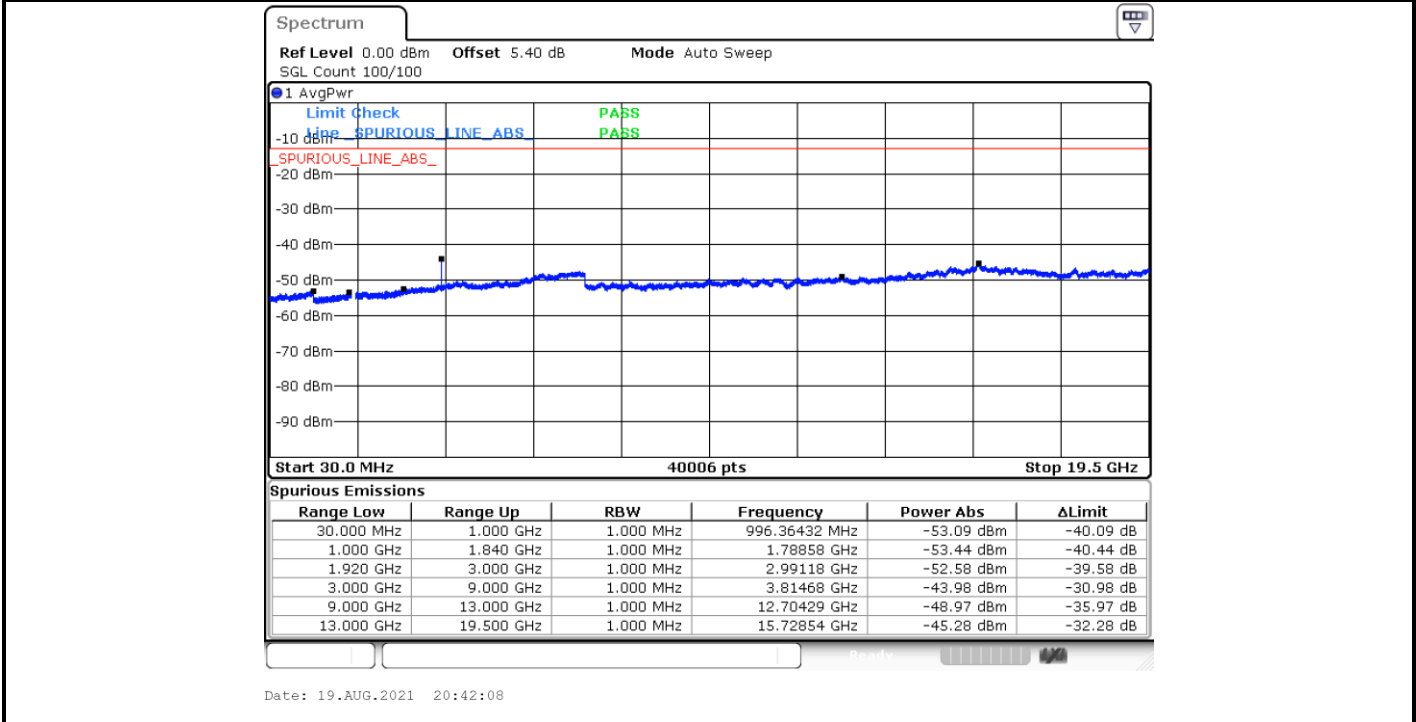
Lowest Channel / QPSK



Middle Channel / QPSK



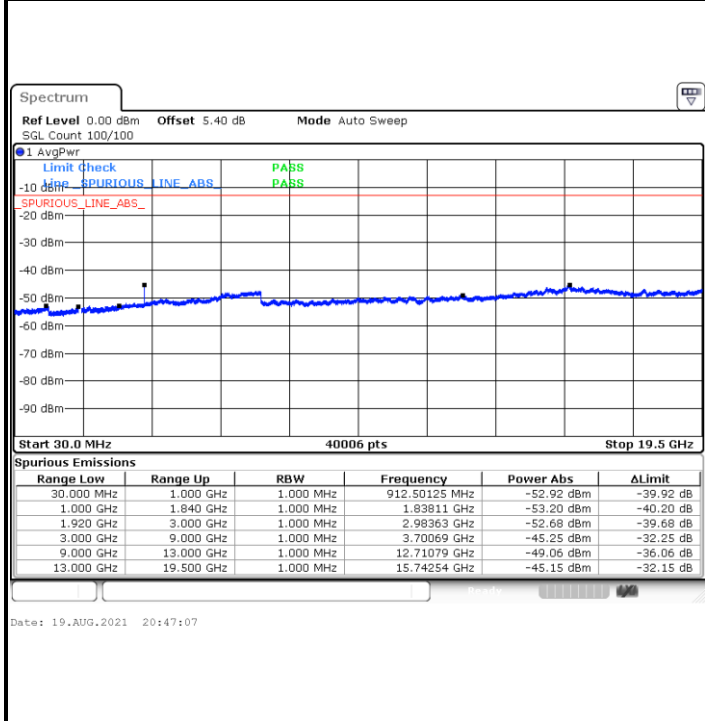
Highest Channel / QPSK



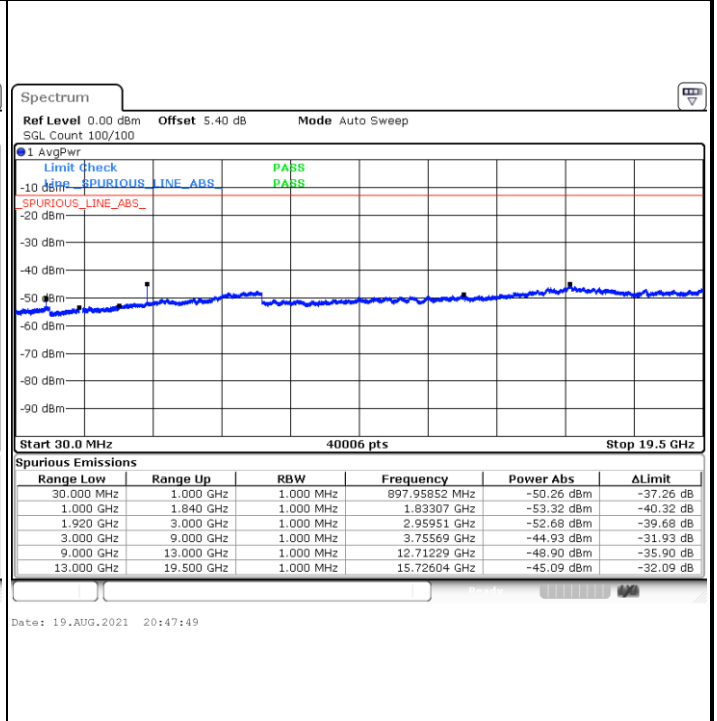


LTE Band 2 / 5MHz

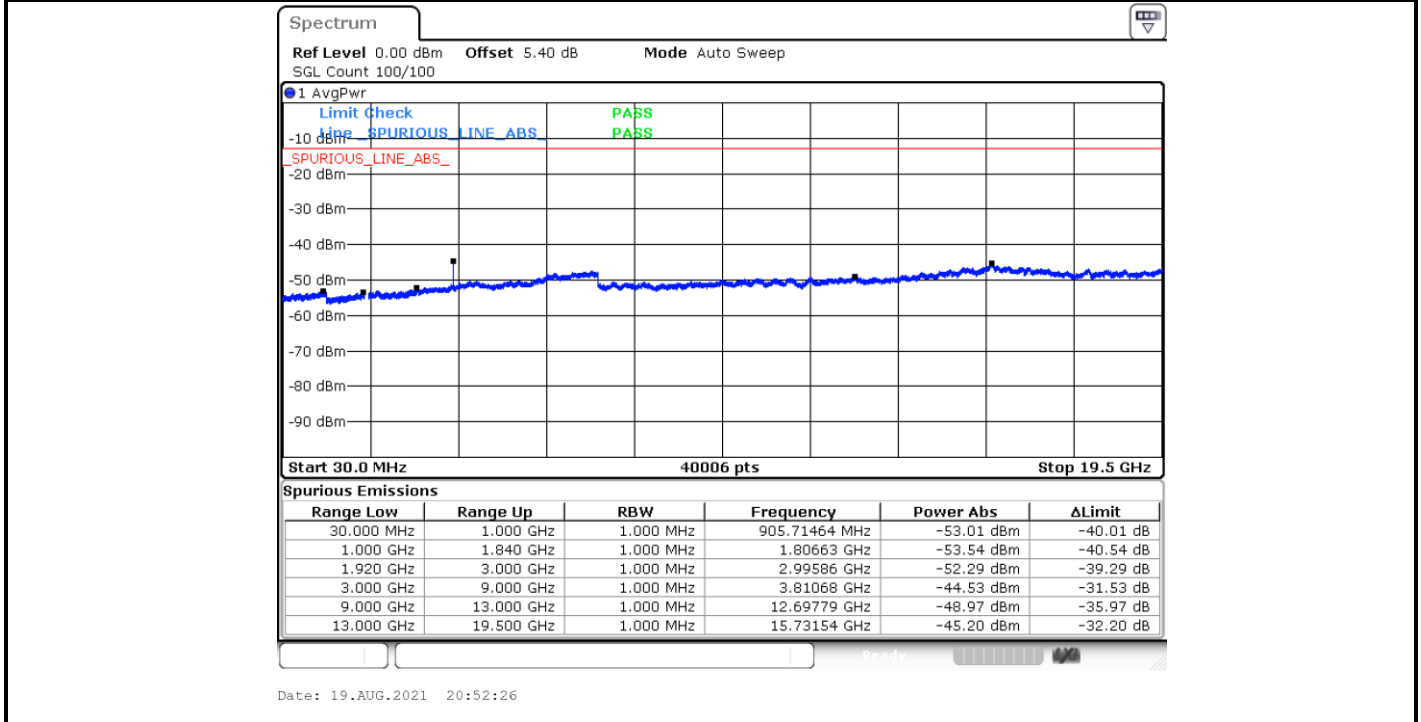
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

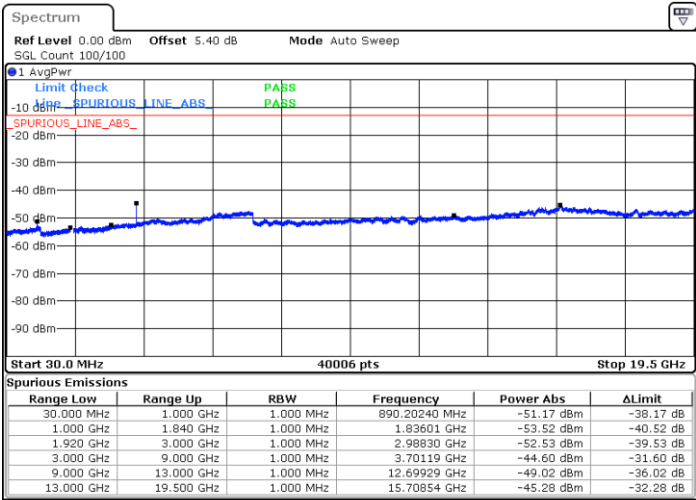




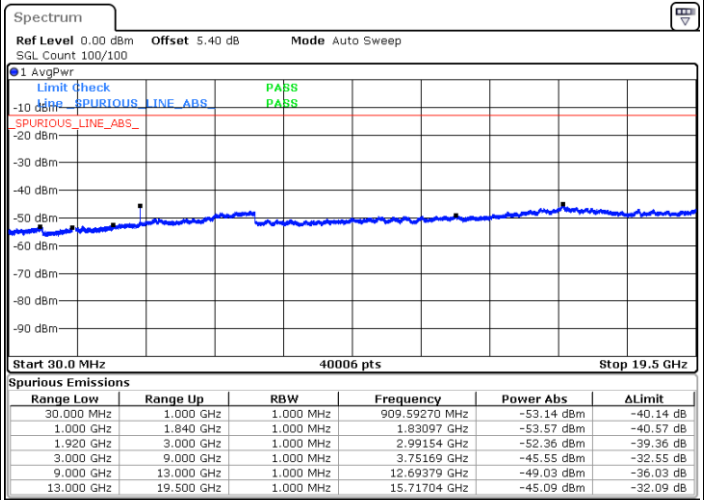
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

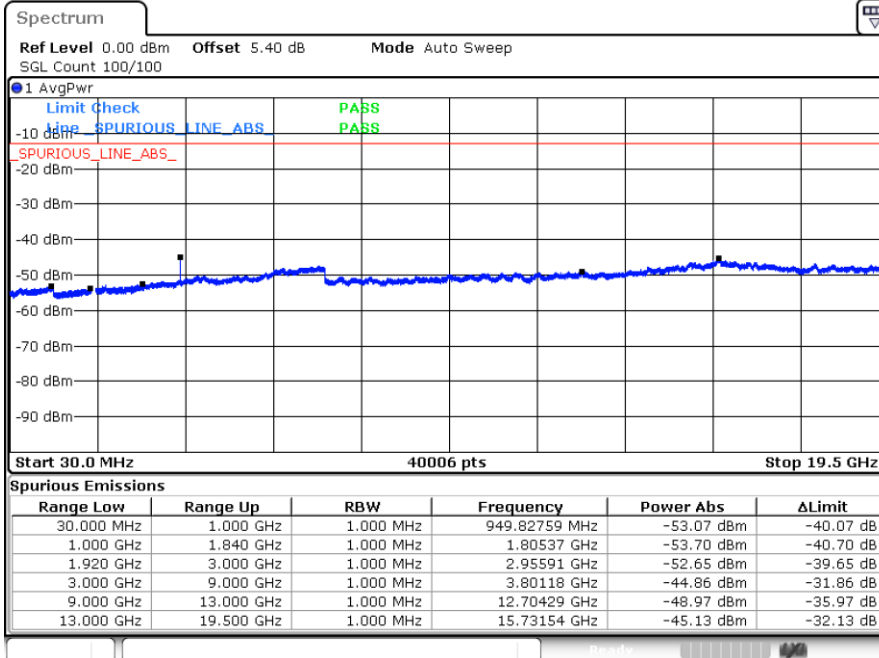


Date: 19.AUG.2021 20:57:26



Date: 19.AUG.2021 20:58:09

Highest Channel / QPSK



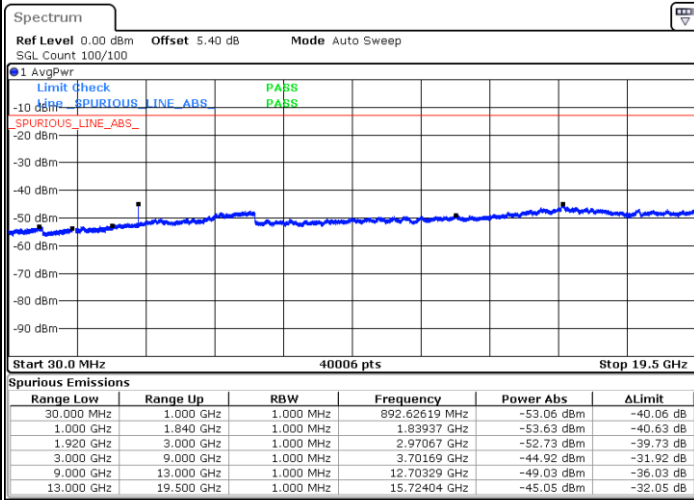
Date: 19.AUG.2021 21:02:46



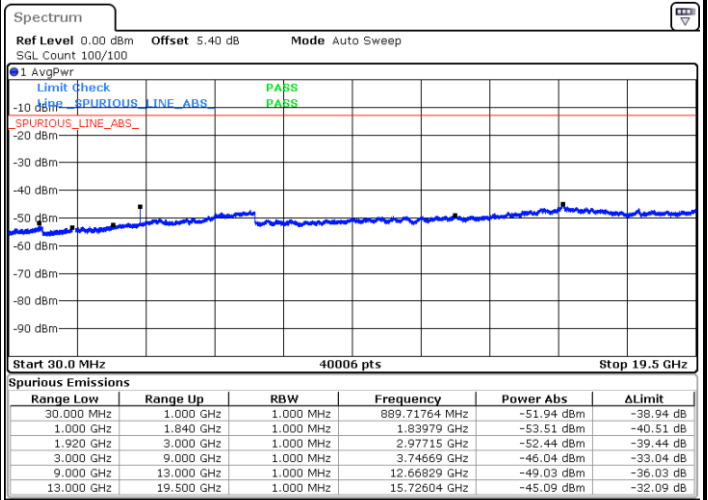
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

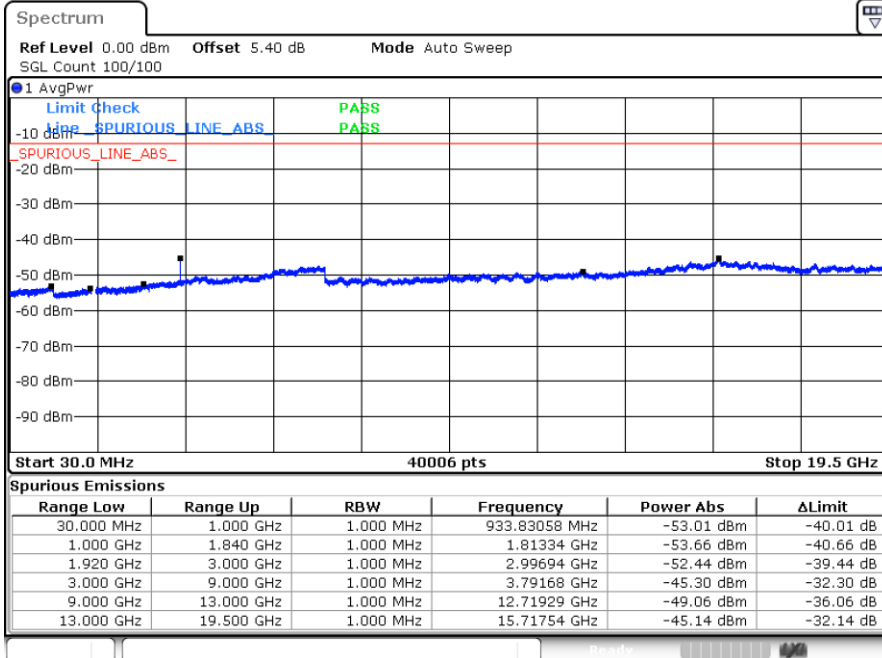


Date: 19.AUG.2021 21:08:50



Date: 19.AUG.2021 21:09:32

Highest Channel / QPSK



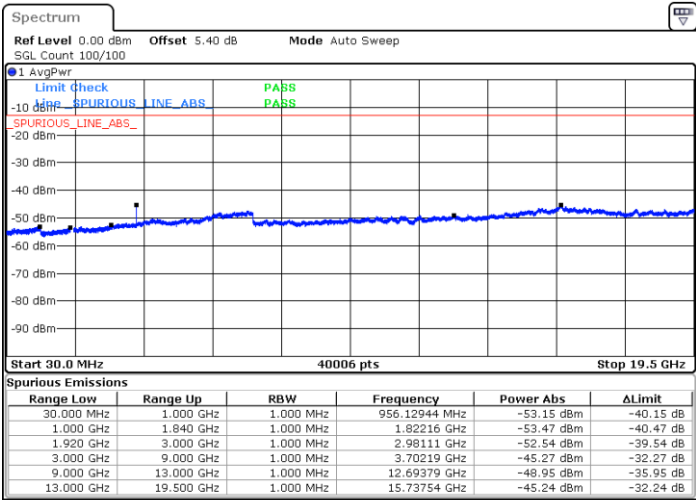
Date: 19.AUG.2021 21:14:09



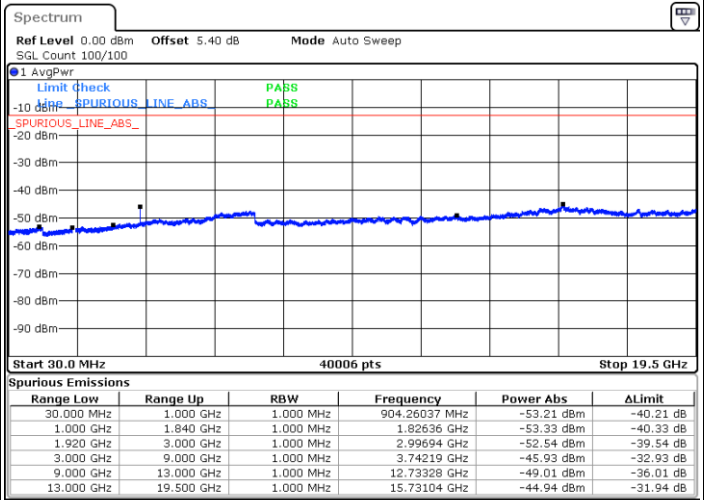
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

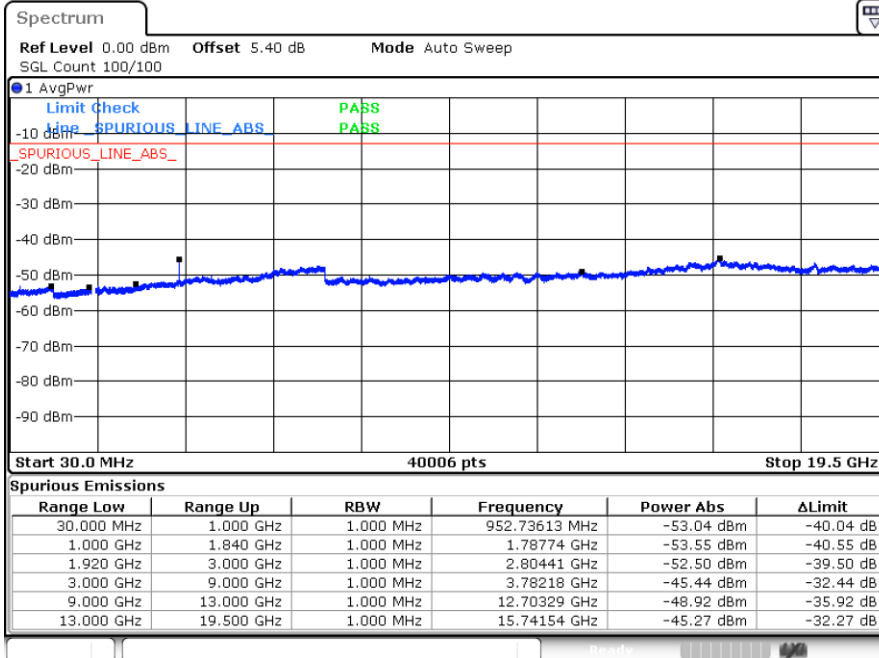


Date: 19.AUG.2021 21:19:05



Date: 19.AUG.2021 21:20:31

Highest Channel / QPSK



Date: 19.AUG.2021 21:25:08



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

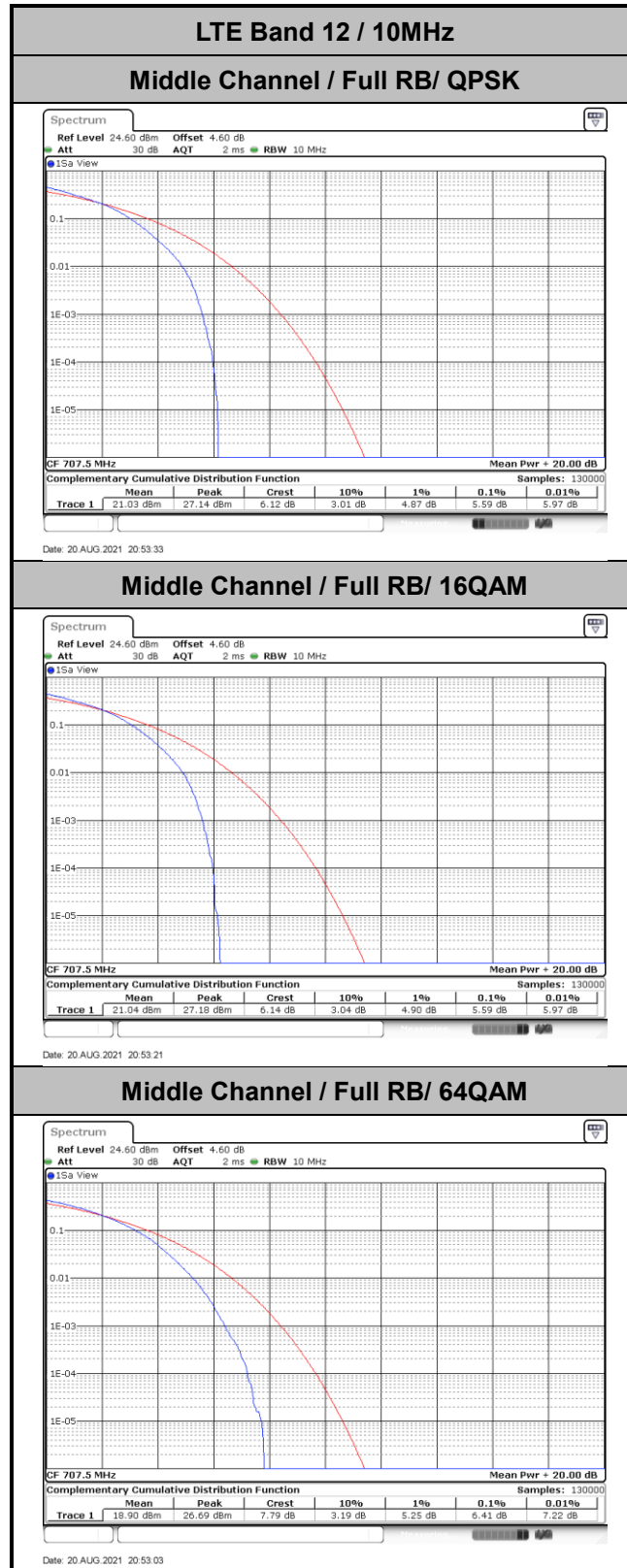
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

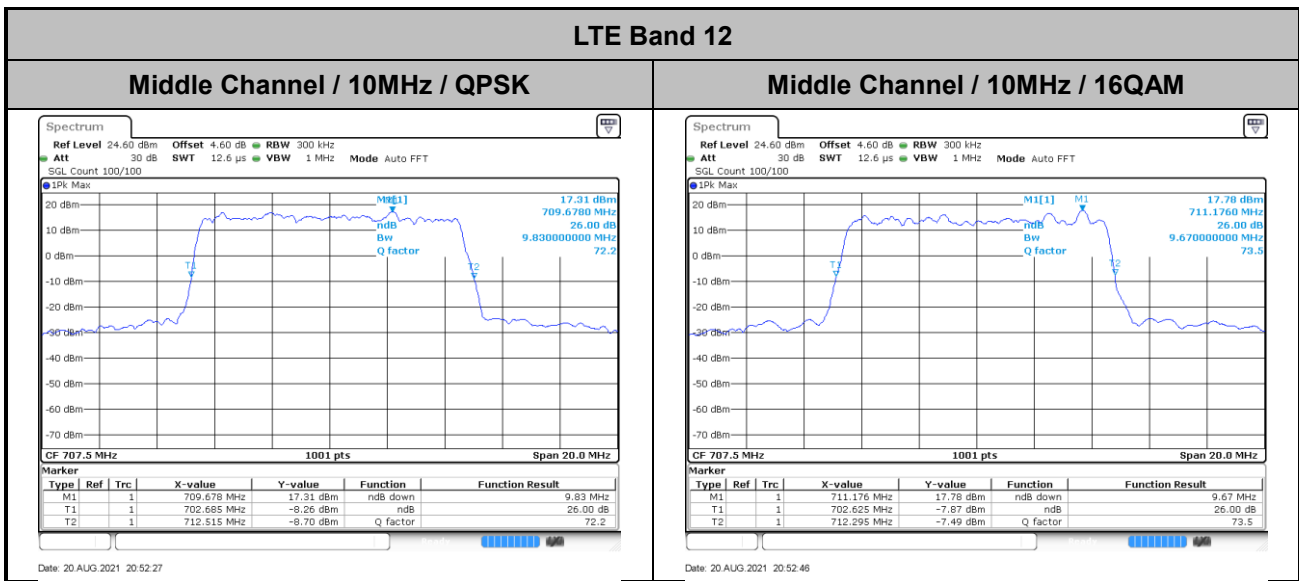
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.59	5.59	6.41	PASS





26dB Bandwidth

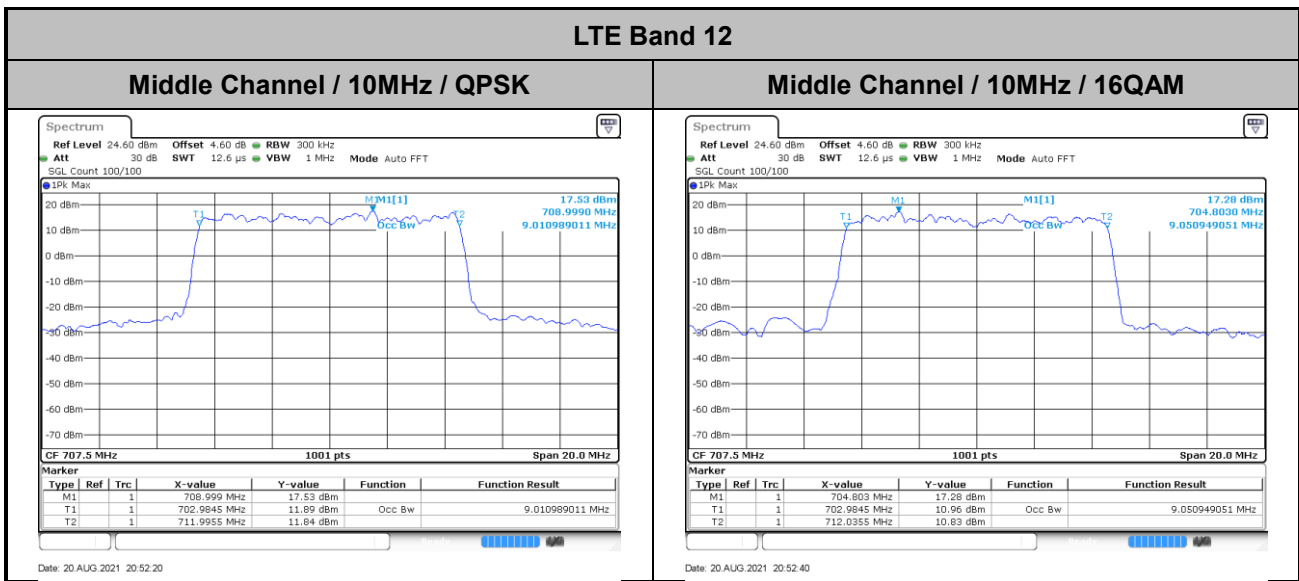
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.67





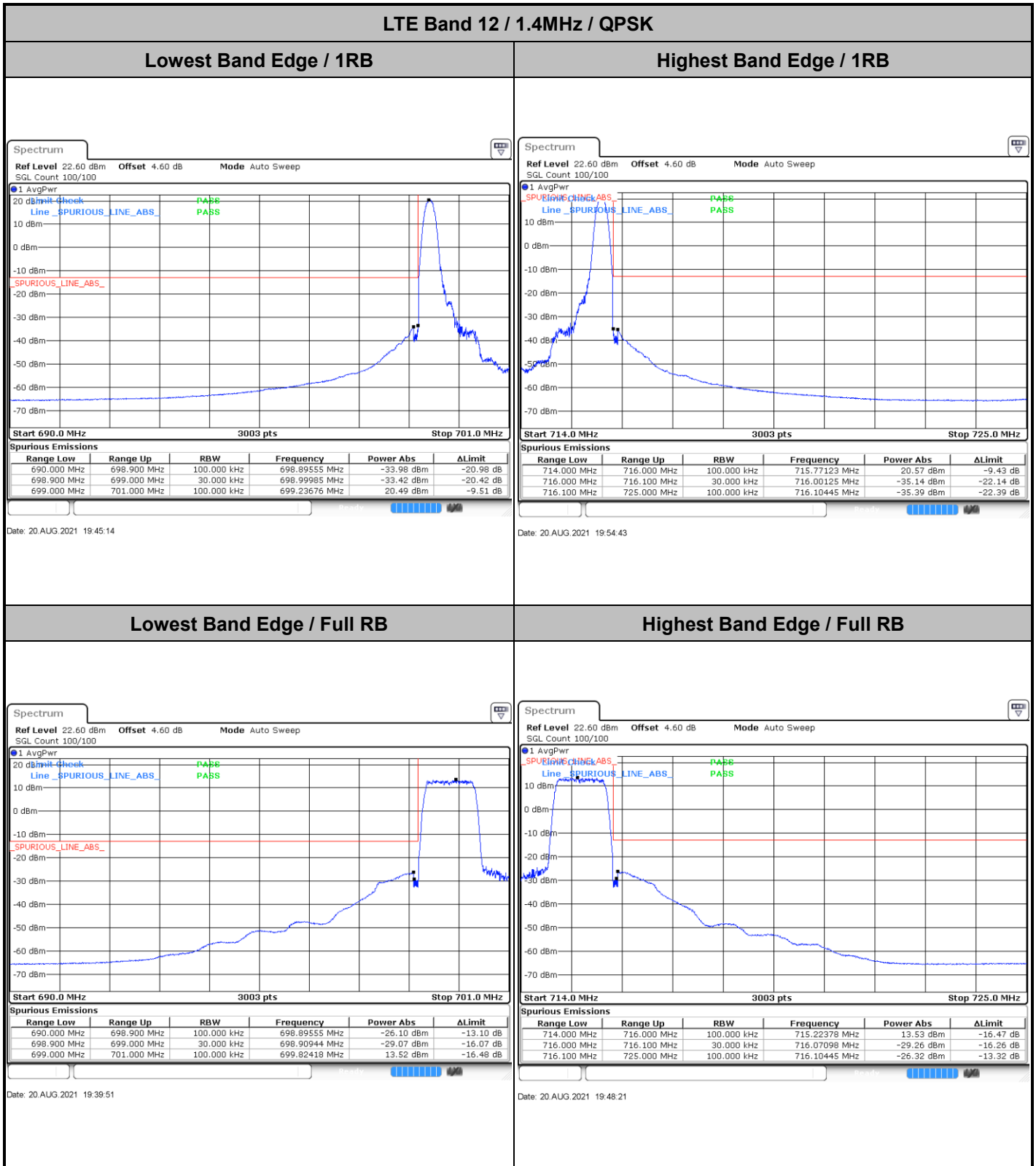
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.05





Conducted Band Edge

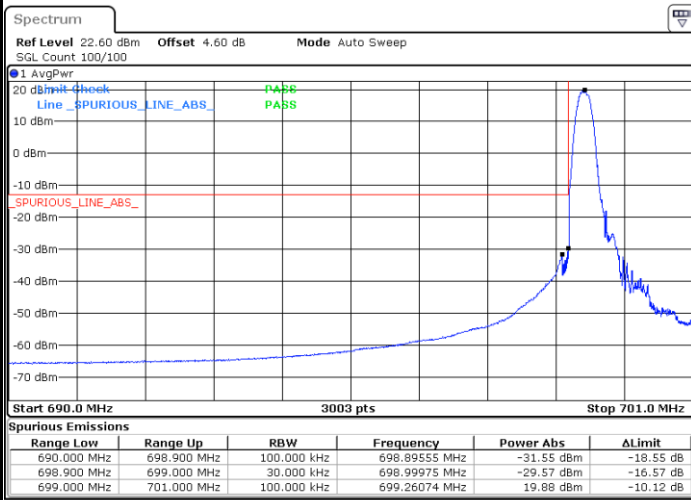




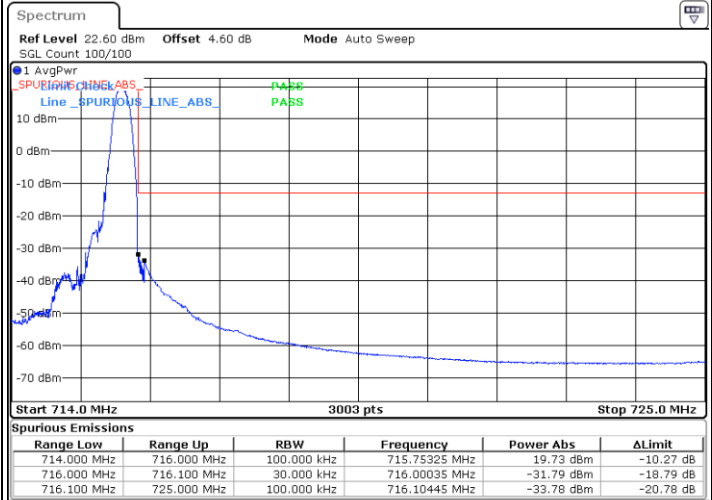
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



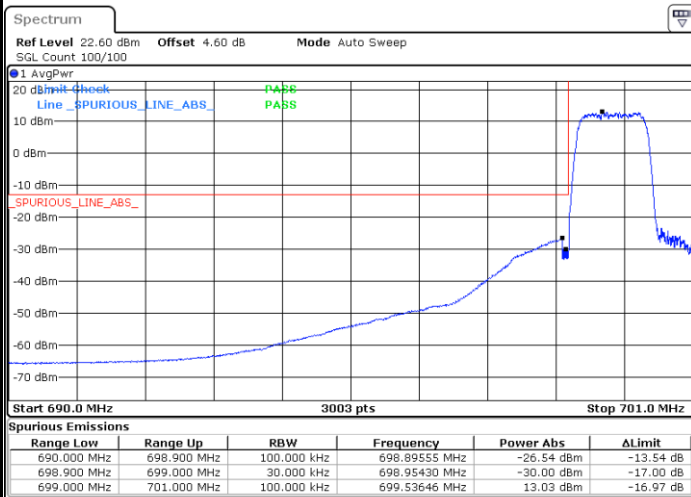
Date: 20 AUG 2021 19:44:37



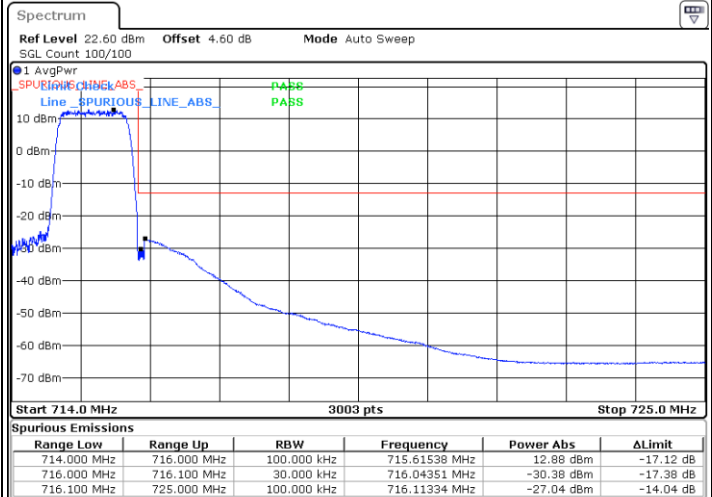
Date: 20 AUG 2021 19:54:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 20 AUG 2021 19:41:08

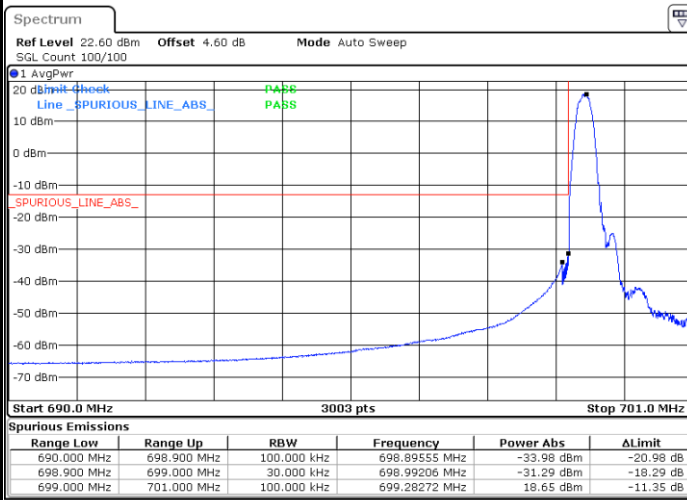


Date: 20 AUG 2021 19:49:00



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



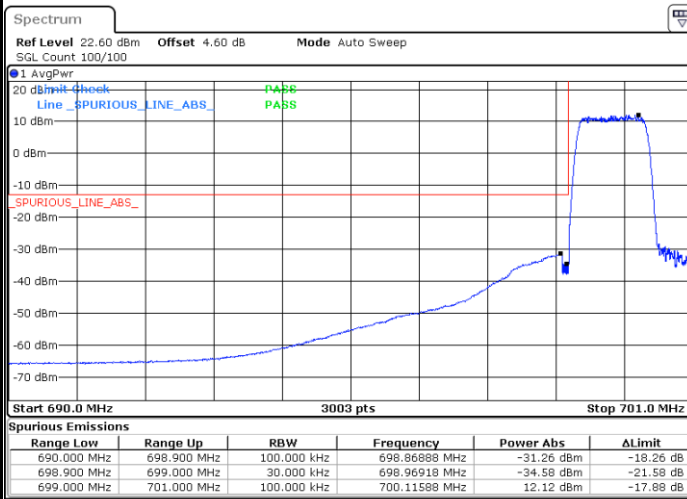
Date: 20 AUG 2021 19:43:33

Highest Band Edge / 1 RB



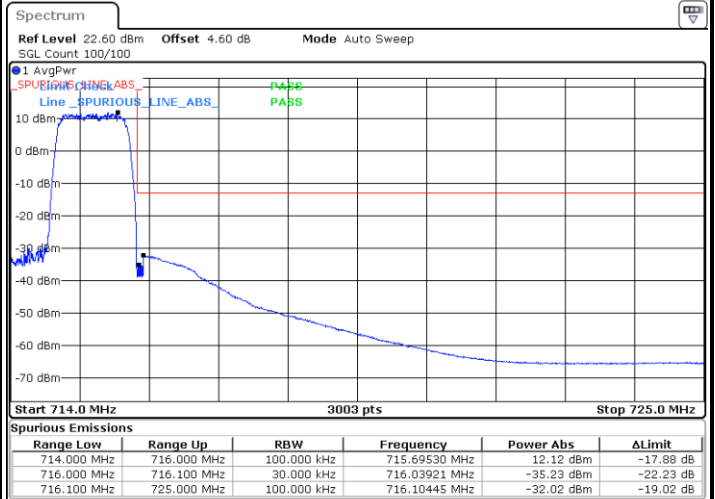
Date: 20 AUG 2021 19:53:23

Lowest Band Edge / Full RB



Date: 20 AUG 2021 19:42:50

Highest Band Edge / Full RB



Date: 20 AUG 2021 19:49:46



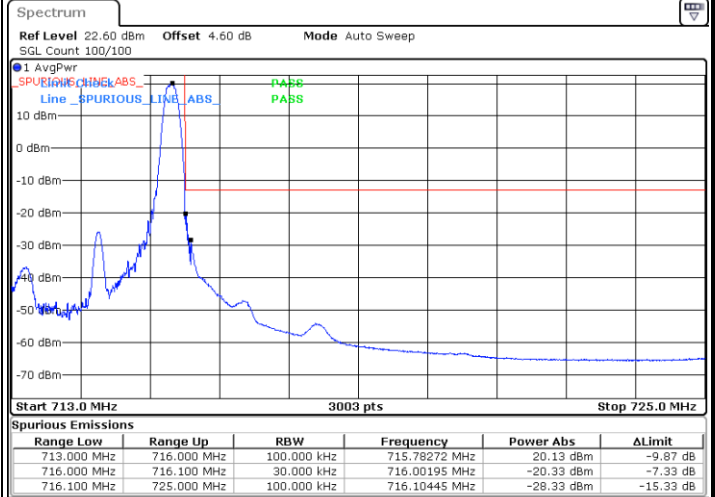
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



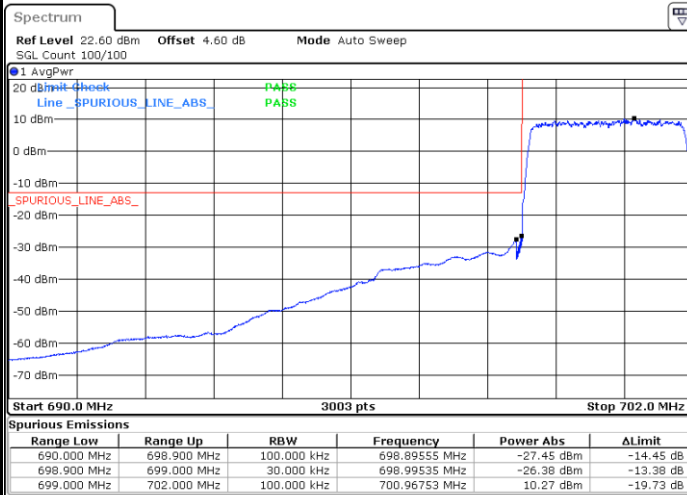
Date: 20 AUG 2021 20:01:42

Highest Band Edge / 1 RB



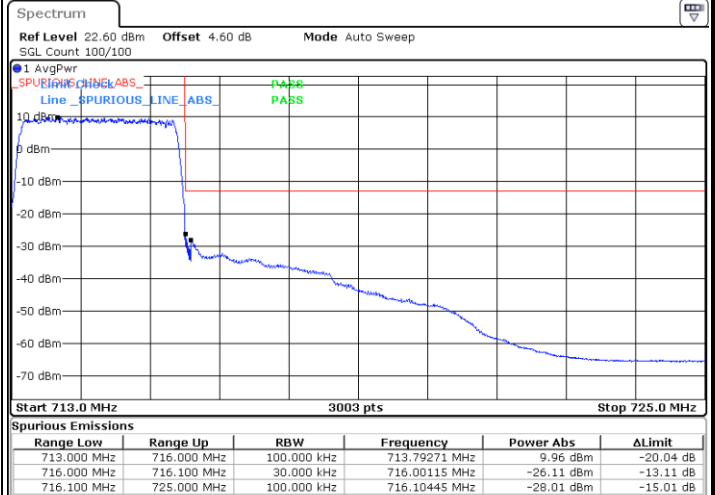
Date: 20 AUG 2021 20:12:48

Lowest Band Edge / Full RB



Date: 20 AUG 2021 19:55:56

Highest Band Edge / Full RB

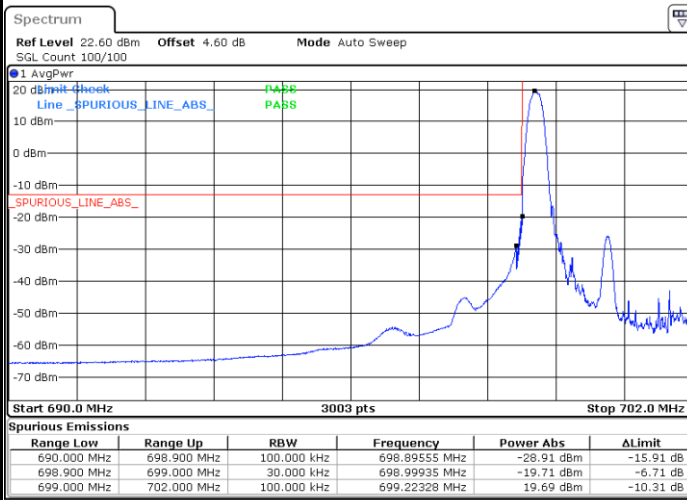


Date: 20 AUG 2021 20:06:50



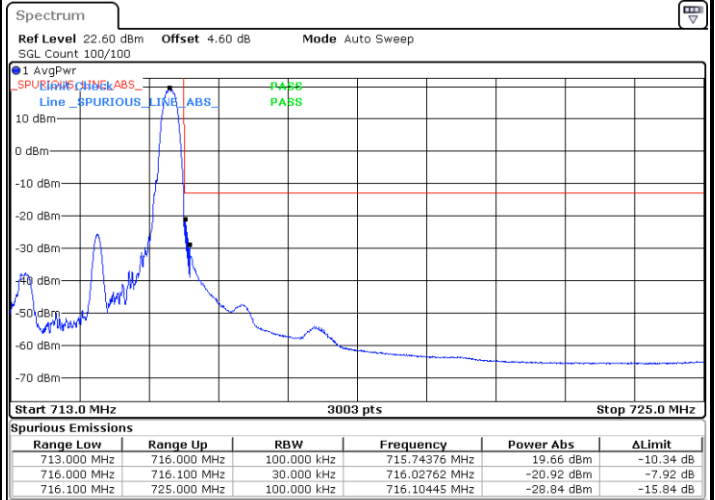
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



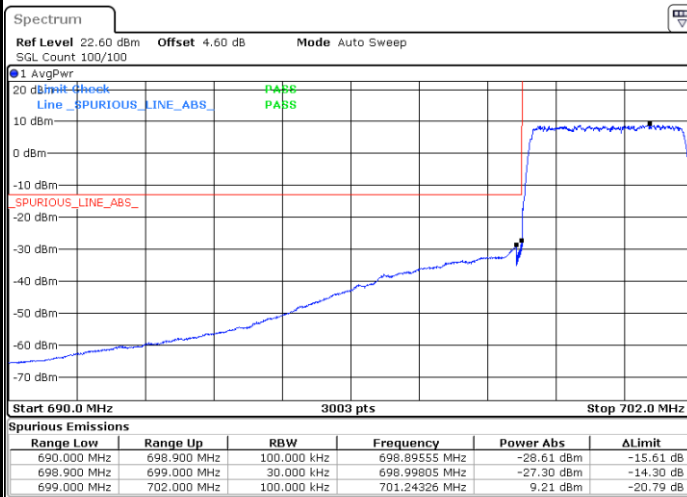
Date: 20 AUG 2021 20:01:02

Highest Band Edge / 1 RB



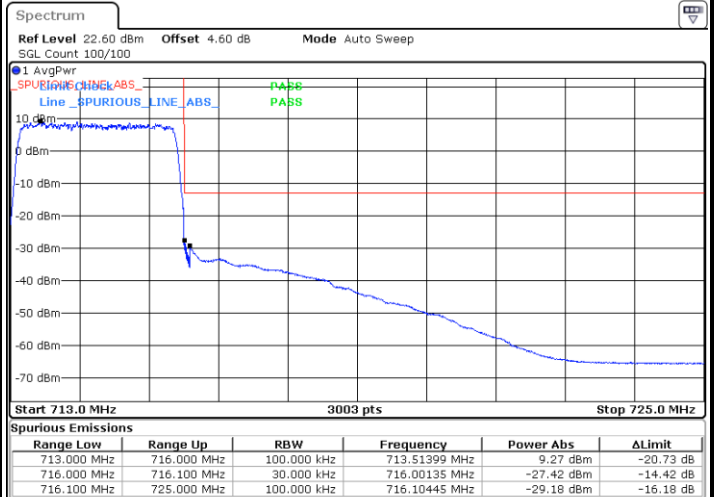
Date: 20 AUG 2021 20:12:06

Lowest Band Edge / Full RB



Date: 20 AUG 2021 19:56:39

Highest Band Edge / Full RB

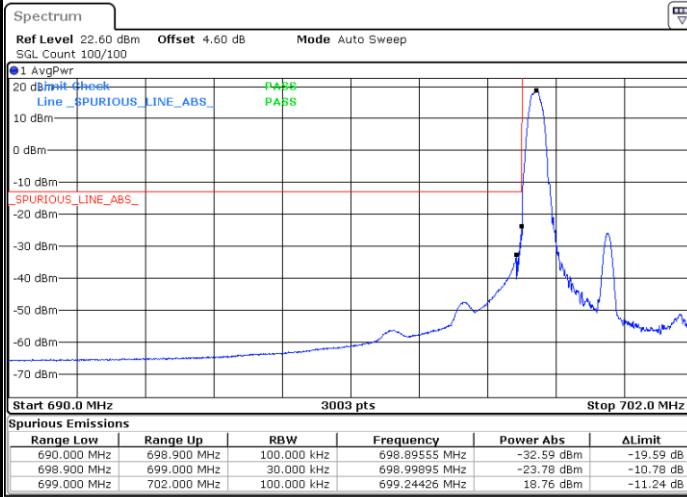


Date: 20 AUG 2021 20:07:37

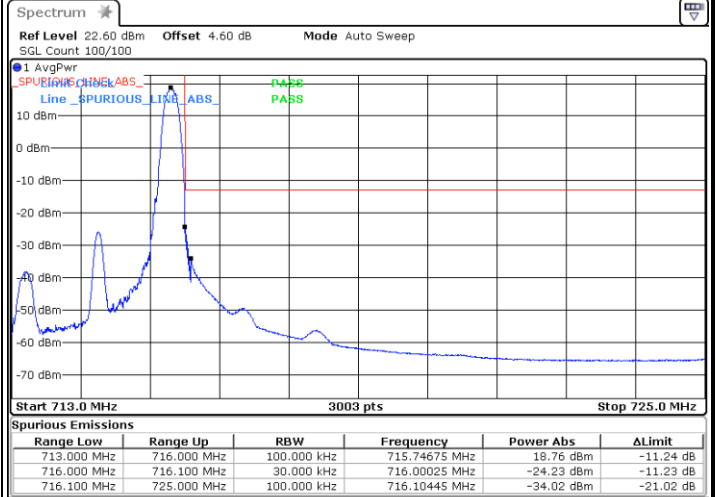


LTE Band 12 / 3MHz / 64QAM

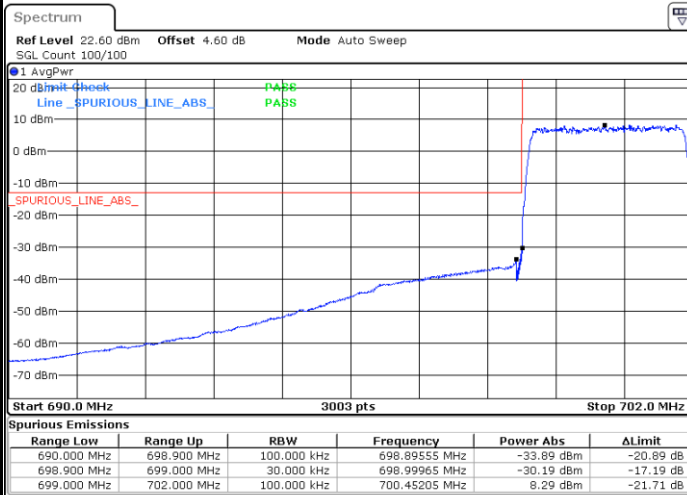
Lowest Band Edge / 1 RB



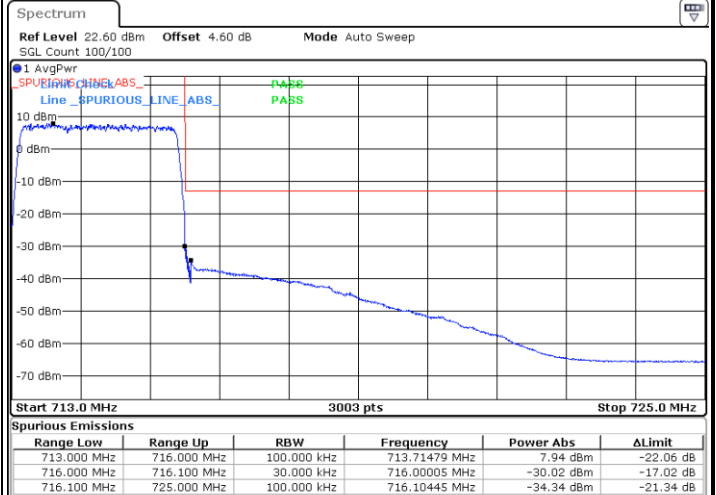
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



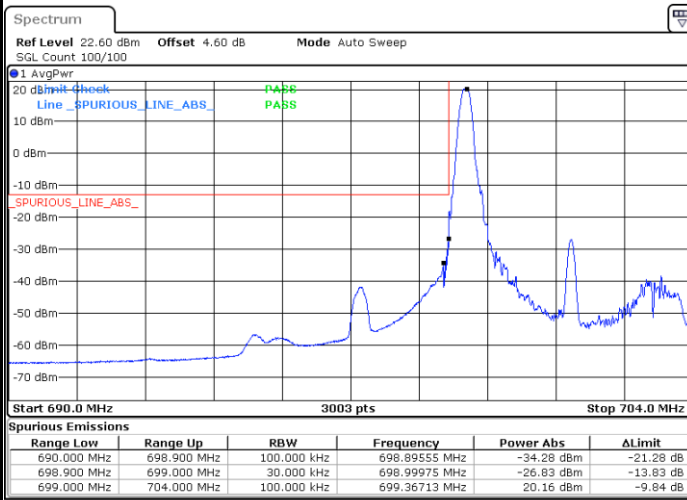
Highest Band Edge / Full RB





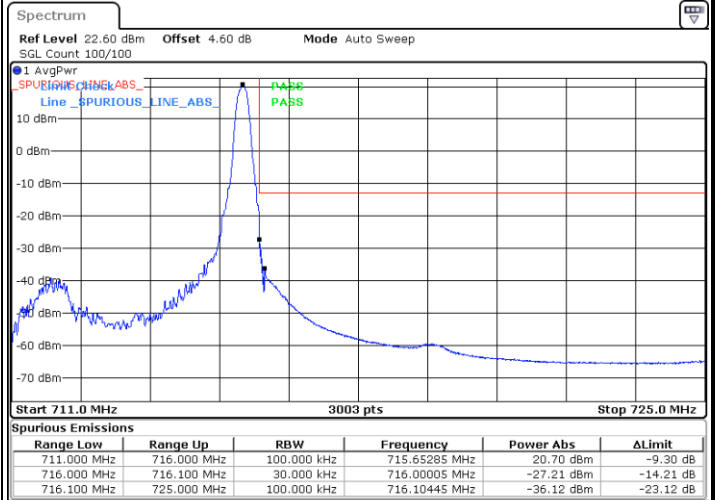
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



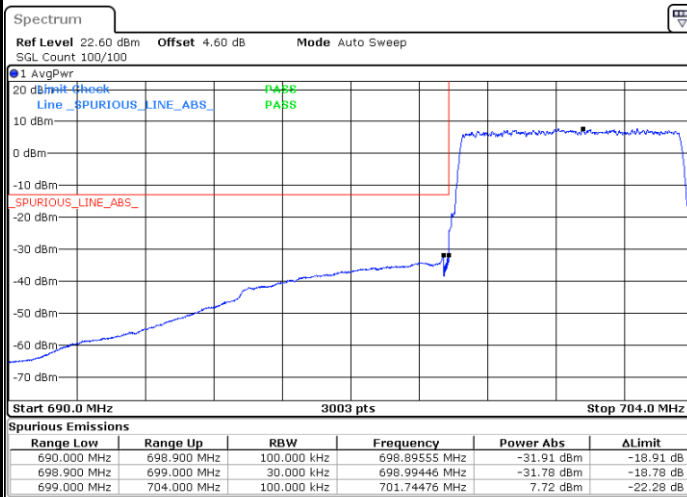
Date: 20 AUG 2021 20:19:12

Highest Band Edge / 1 RB



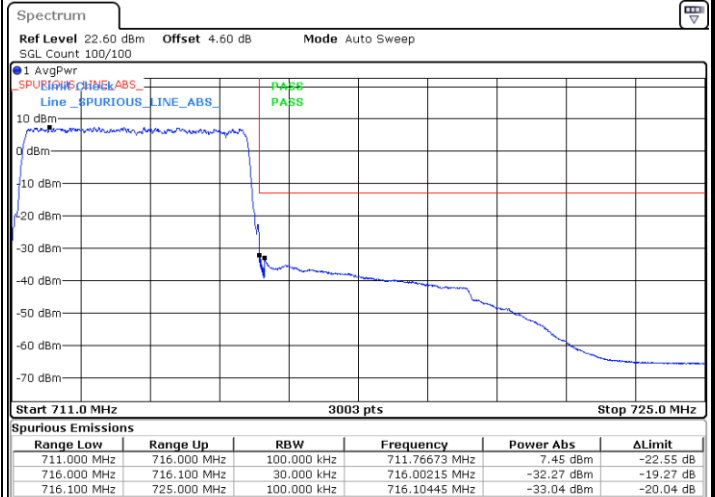
Date: 20 AUG 2021 20:28:52

Lowest Band Edge / Full RB



Date: 20 AUG 2021 20:14:33

Highest Band Edge / Full RB

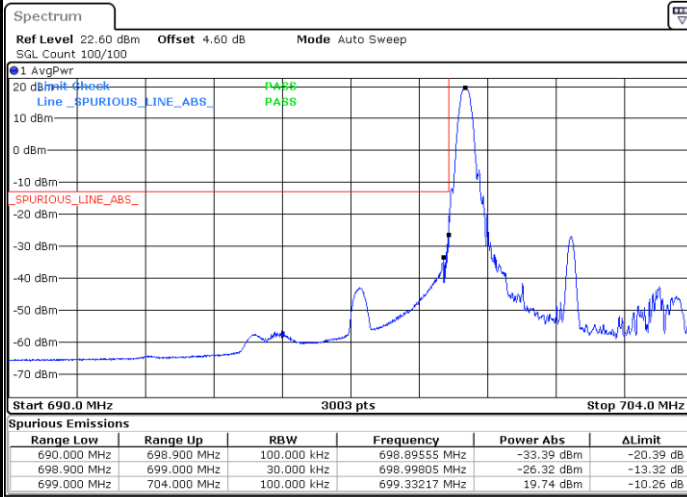


Date: 20 AUG 2021 20:24:11



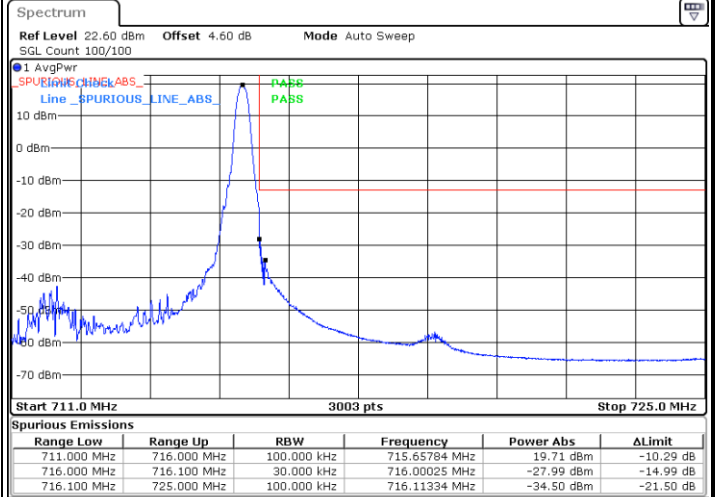
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



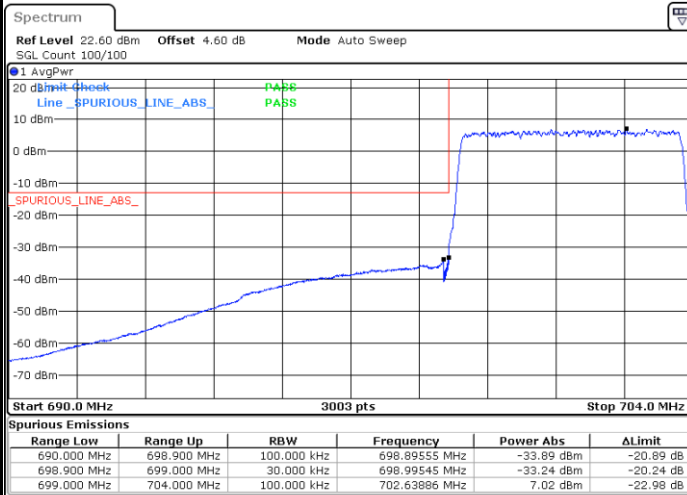
Date: 20 AUG 2021 20:18:14

Highest Band Edge / 1 RB



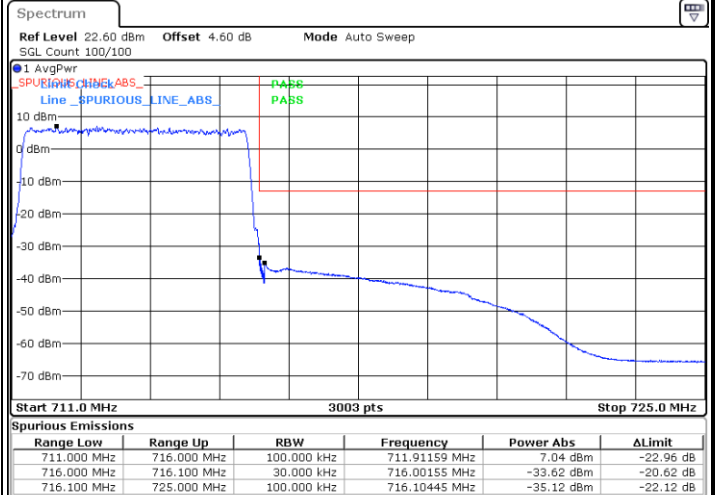
Date: 20 AUG 2021 20:28:12

Lowest Band Edge / Full RB



Date: 20 AUG 2021 20:15:44

Highest Band Edge / Full RB

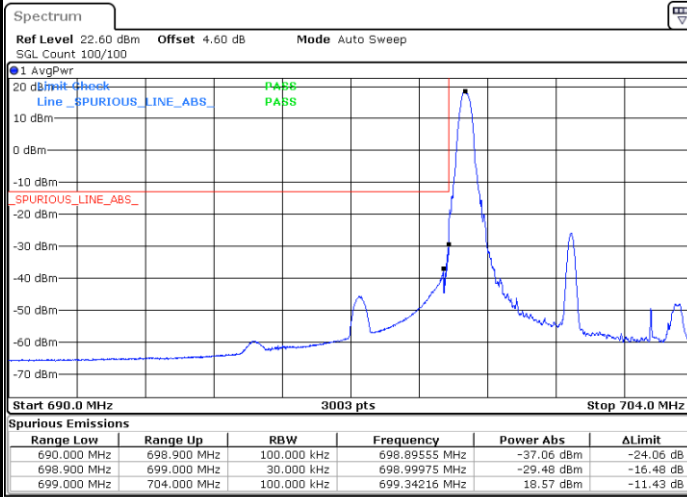


Date: 20 AUG 2021 20:24:58



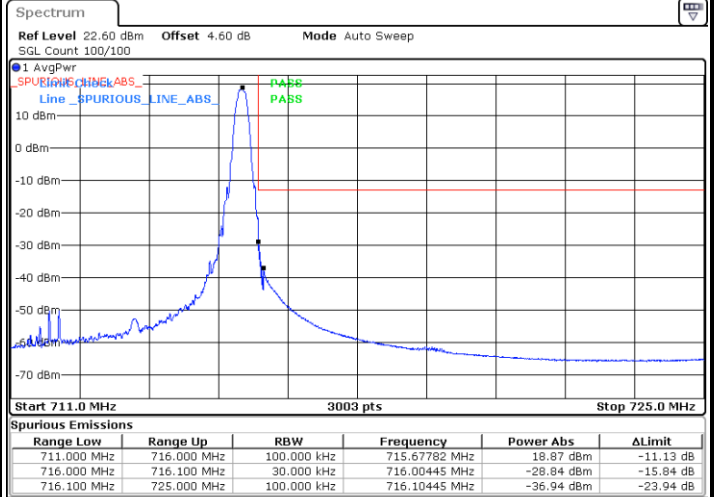
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



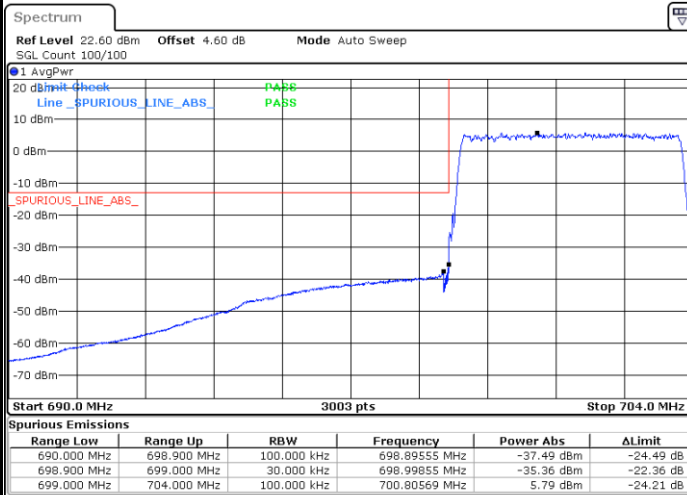
Date: 20 AUG 2021 20:17:22

Highest Band Edge / 1 RB



Date: 20 AUG 2021 20:27:22

Lowest Band Edge / Full RB



Date: 20 AUG 2021 20:16:39

Highest Band Edge / Full RB

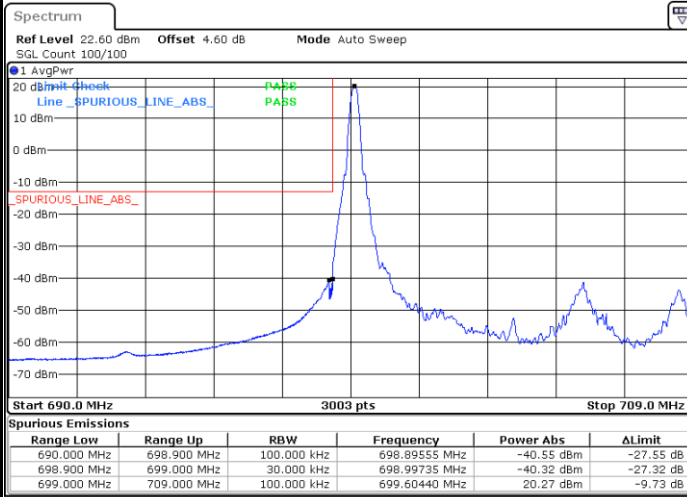


Date: 20 AUG 2021 20:25:42



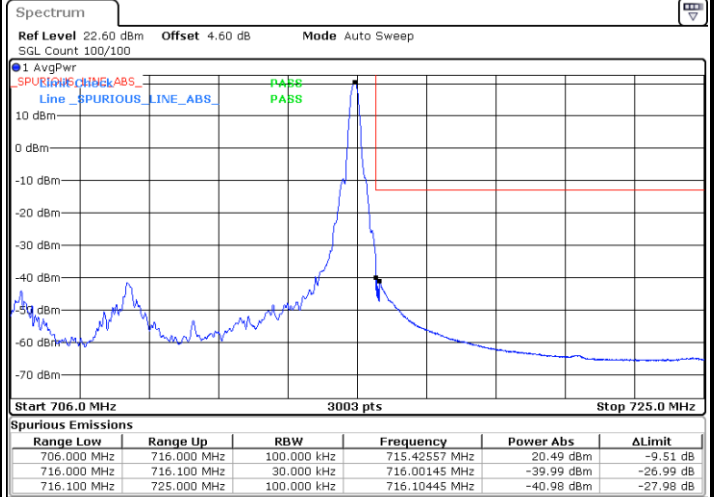
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



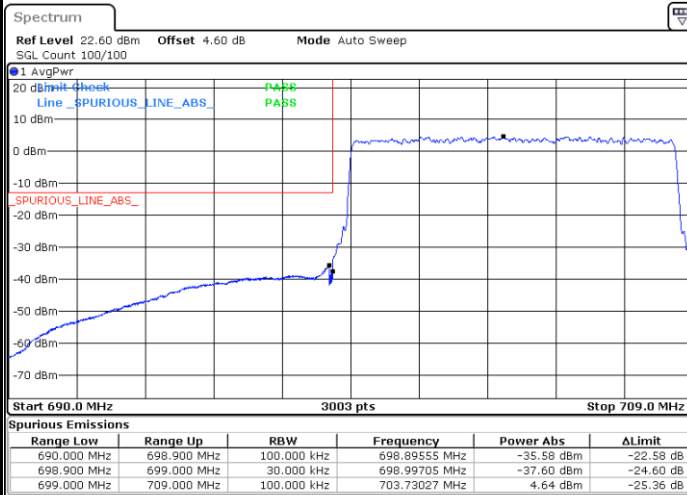
Date: 20 AUG 2021 20:43:07

Highest Band Edge / 1 RB



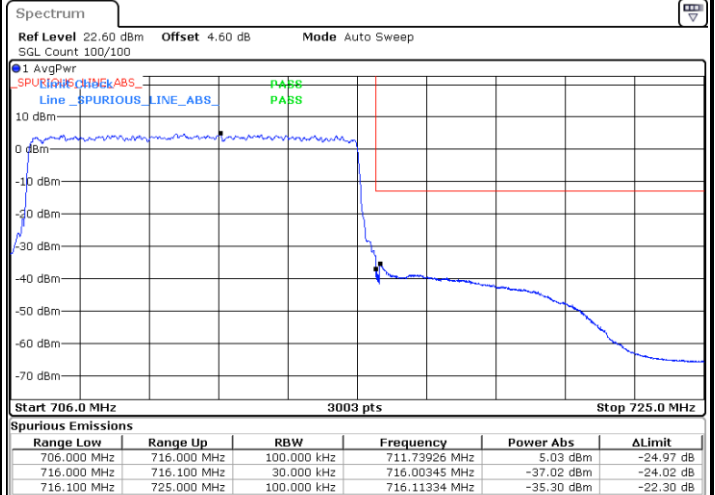
Date: 20 AUG 2021 20:51:49

Lowest Band Edge / Full RB



Date: 20 AUG 2021 20:33:00

Highest Band Edge / Full RB

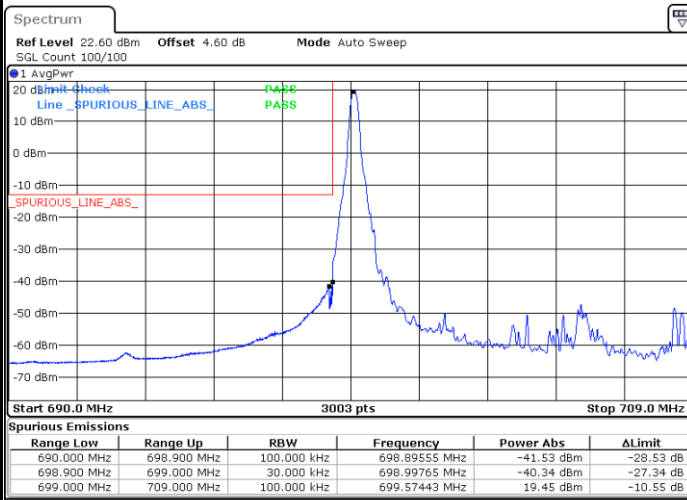


Date: 20 AUG 2021 20:47:10



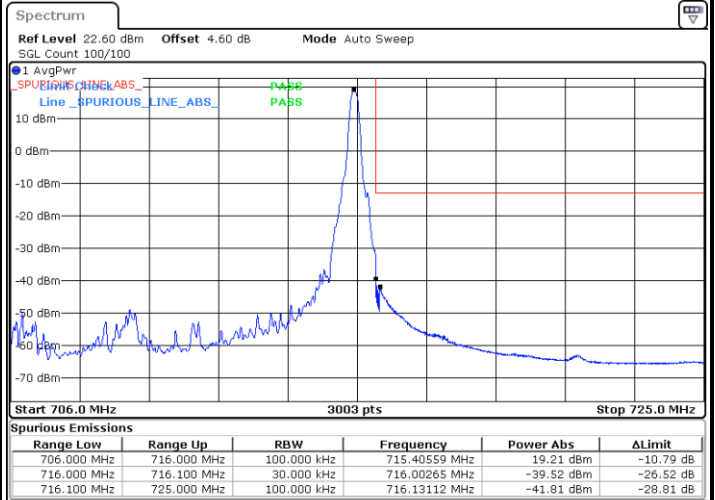
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



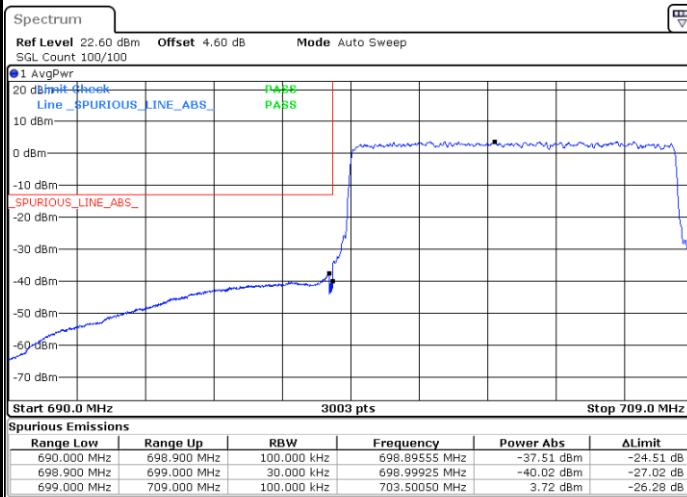
Date: 20 AUG 2021 20:44:36

Highest Band Edge / 1 RB



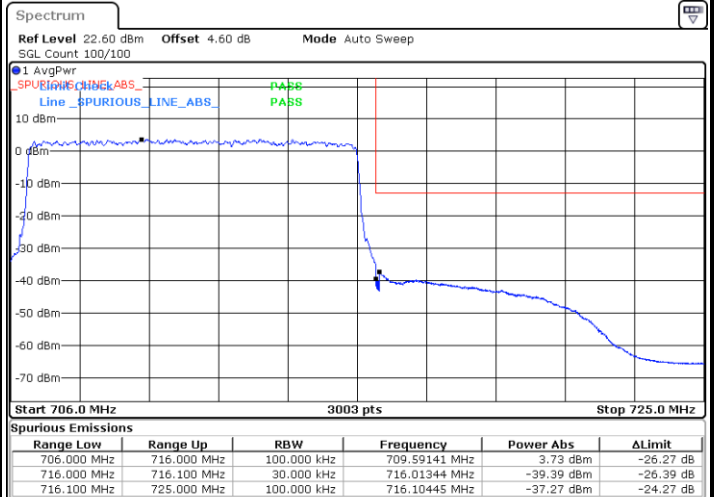
Date: 20 AUG 2021 20:51:05

Lowest Band Edge / Full RB



Date: 20 AUG 2021 20:35:45

Highest Band Edge / Full RB

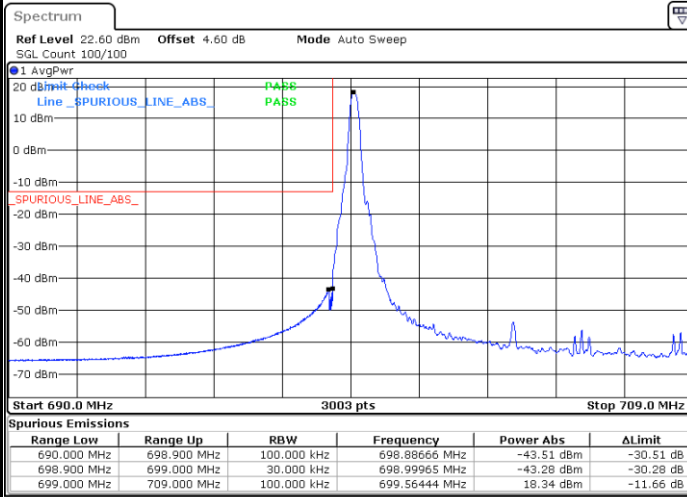


Date: 20 AUG 2021 20:48:00



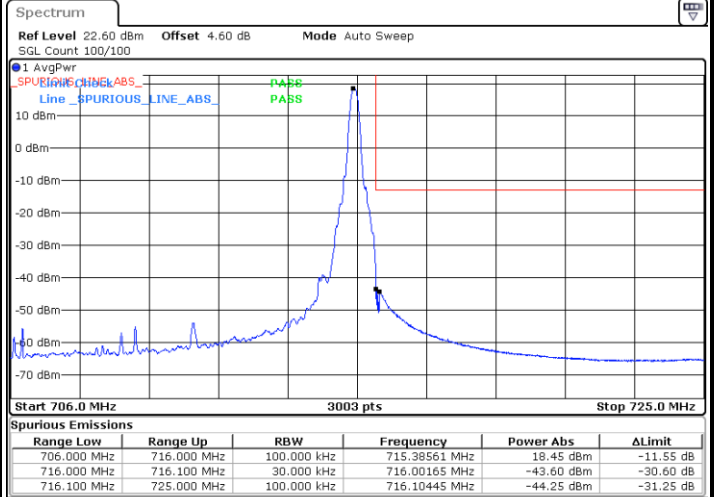
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



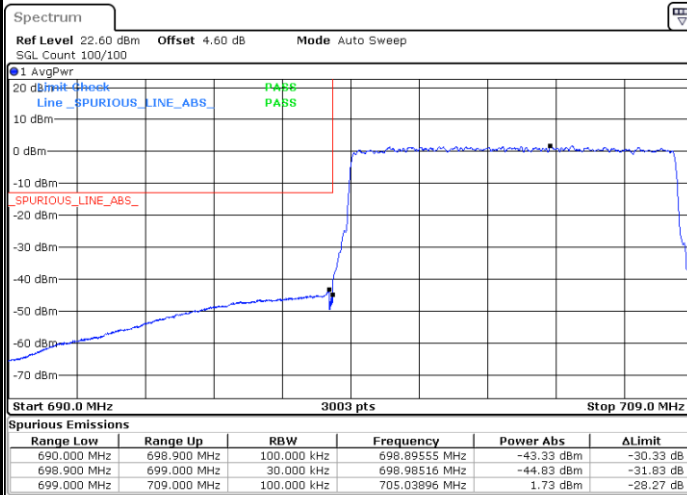
Date: 20 AUG 2021 20:41:13

Highest Band Edge / 1 RB



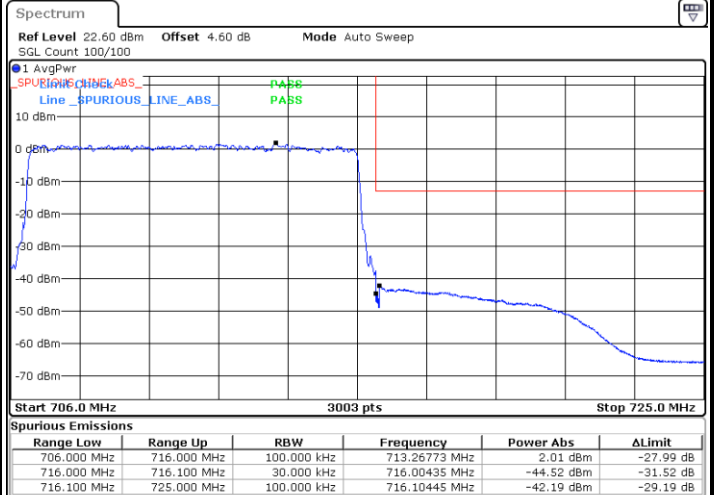
Date: 20 AUG 2021 20:50:16

Lowest Band Edge / Full RB



Date: 20 AUG 2021 20:40:11

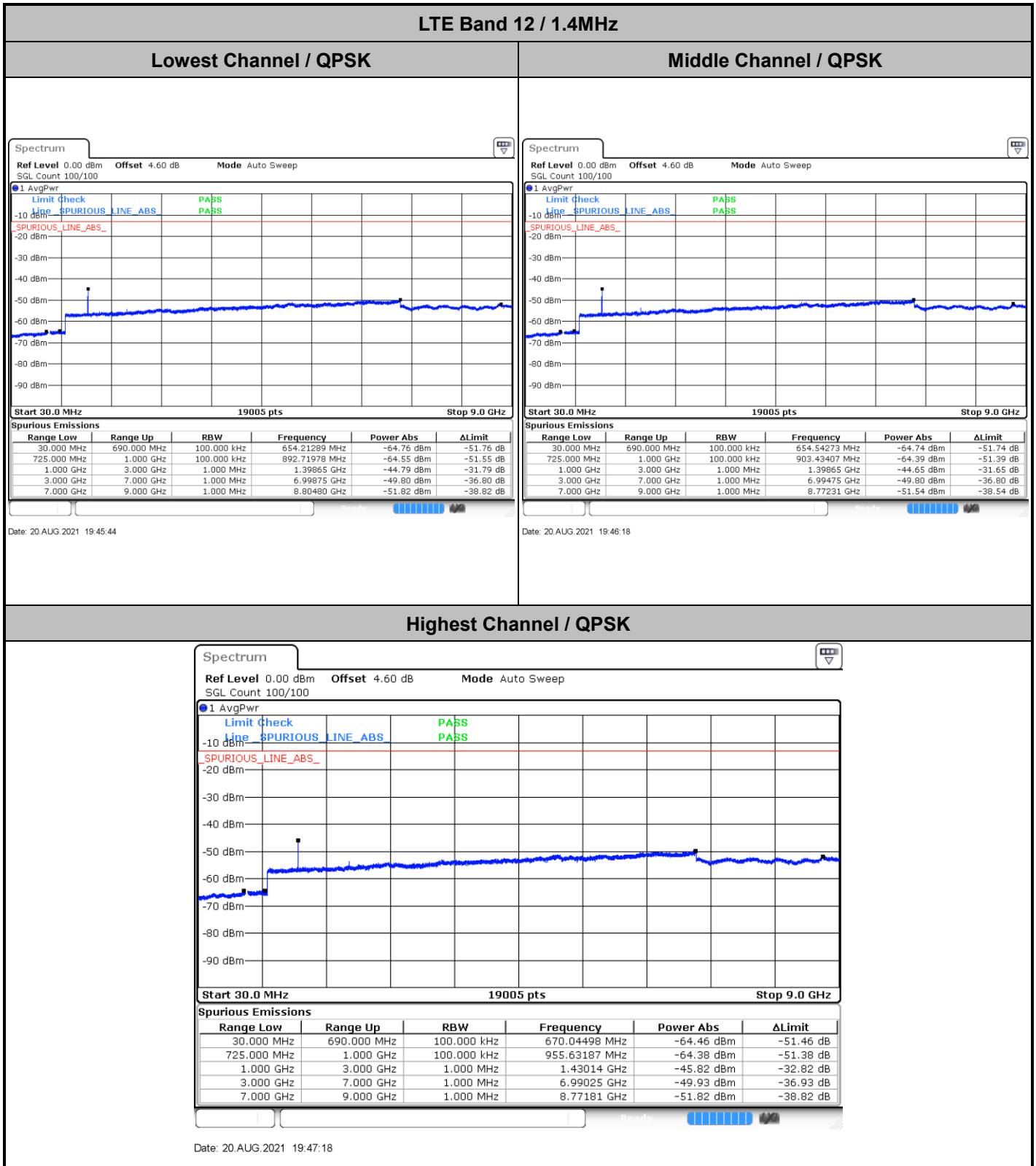
Highest Band Edge / Full RB



Date: 20 AUG 2021 20:48:02



Conducted Spurious Emission

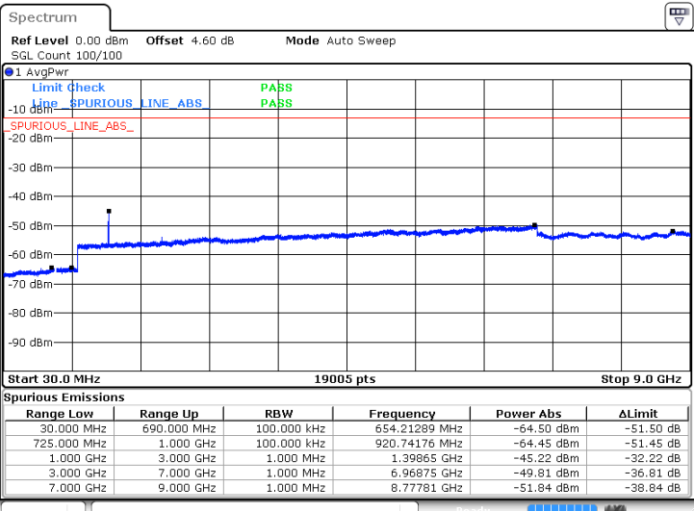
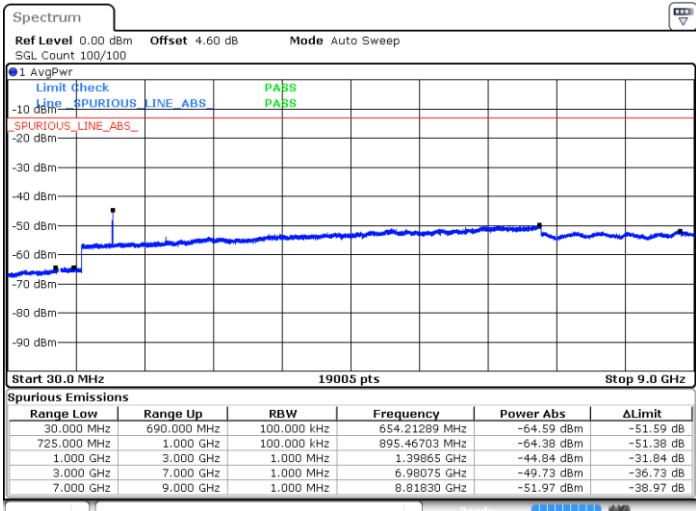




LTE Band 12 / 3MHz

Lowest Channel / QPSK

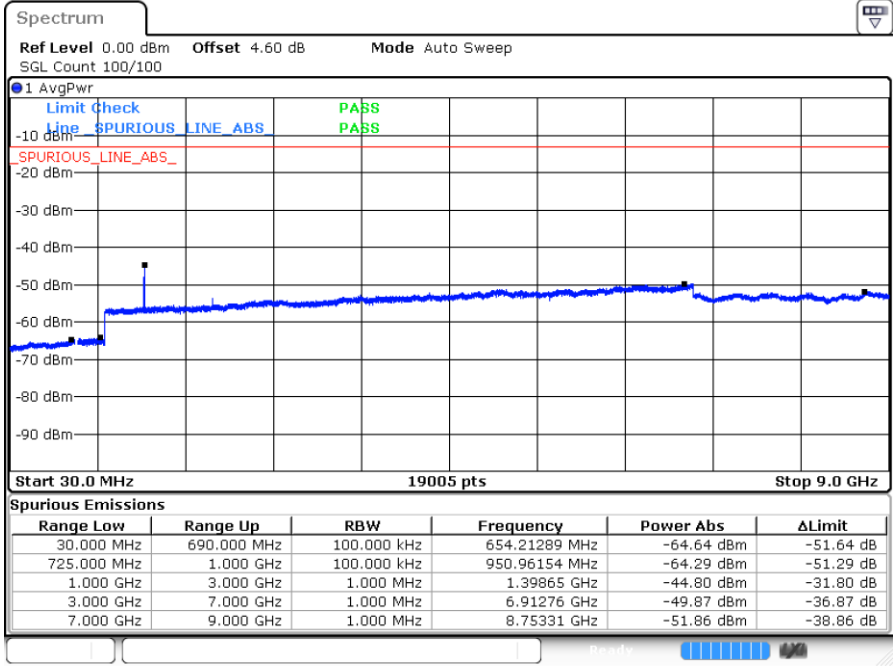
Middle Channel / QPSK



Date: 20.AUG.2021 20:02:25

Date: 20.AUG.2021 20:03:01

Highest Channel / QPSK



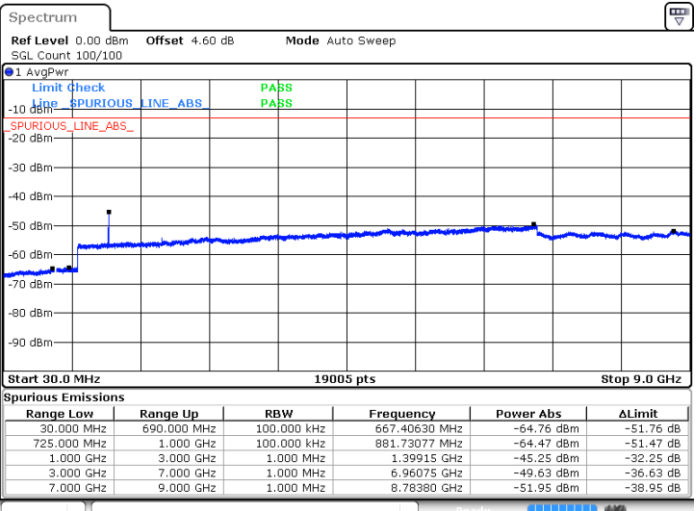
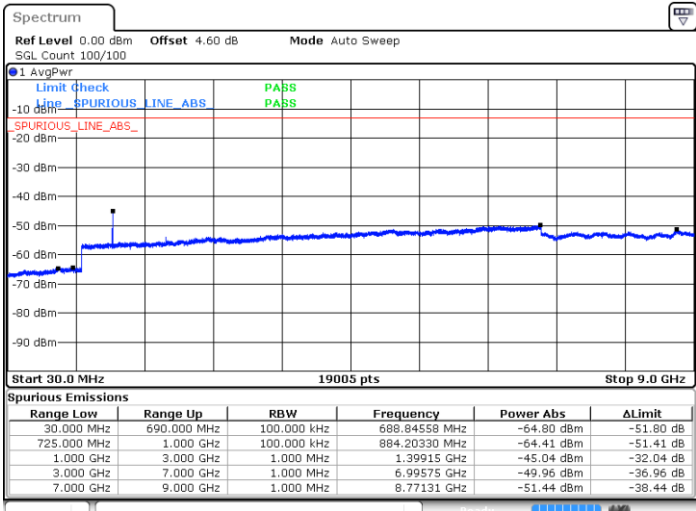
Date: 20.AUG.2021 20:04:45



LTE Band 12 / 5MHz

Lowest Channel / QPSK

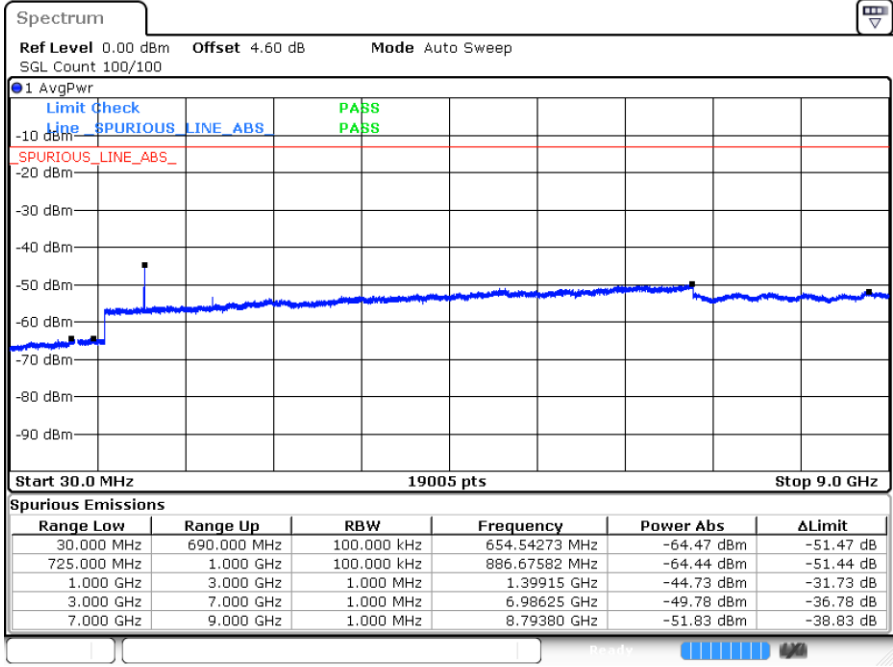
Middle Channel / QPSK



Date: 20.AUG.2021 20:20:04

Date: 20.AUG.2021 20:20:41

Highest Channel / QPSK



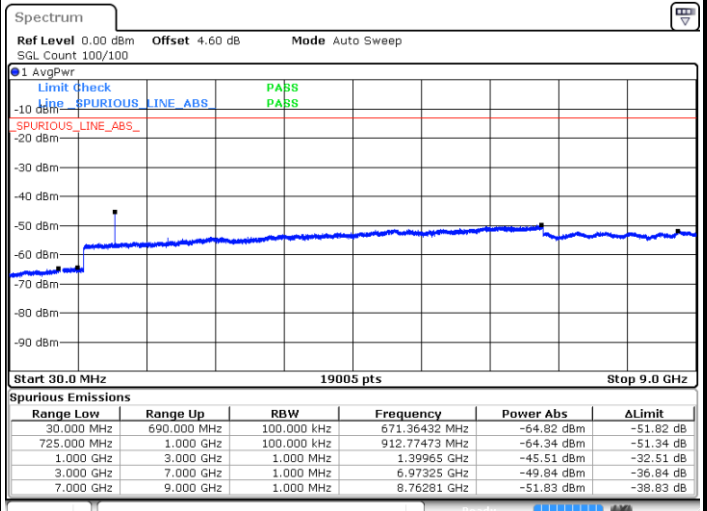
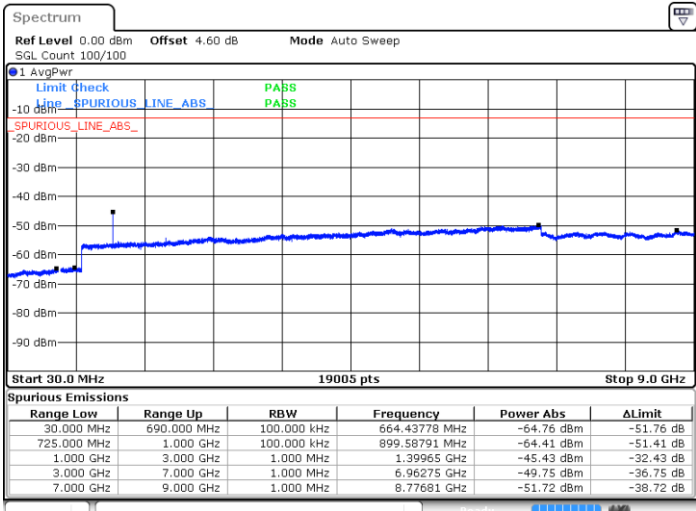
Date: 20.AUG.2021 20:21:24



LTE Band 12 / 10MHz

Lowest Channel / QPSK

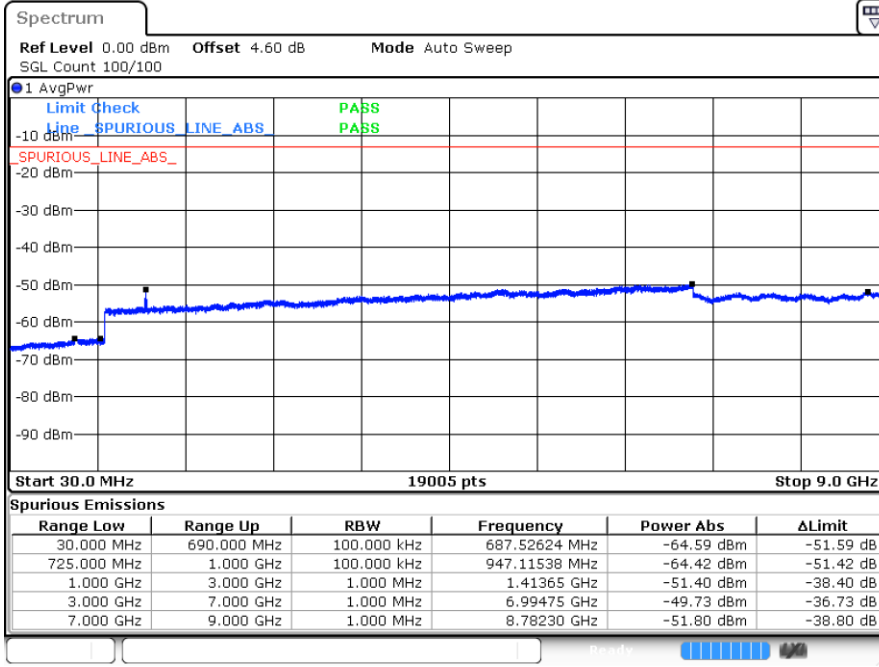
Middle Channel / QPSK



Date: 20.AUG.2021 20:43:57

Date: 20.AUG.2021 20:45:44

Highest Channel / QPSK



Date: 20.AUG.2021 20:46:22



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	0.0006	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0099	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0071	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0102	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. 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	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.62	6.23	PASS