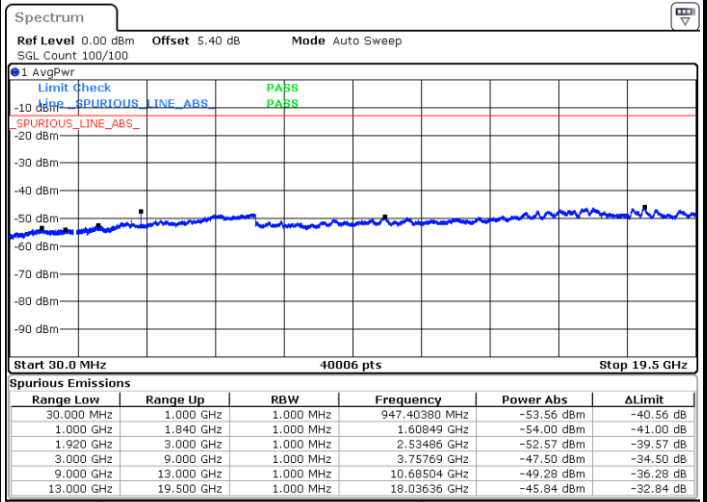
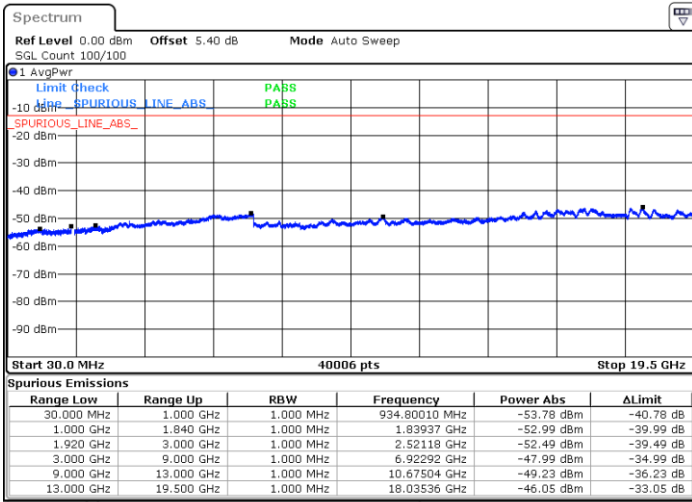




LTE Band 2 / 3MHz

Lowest Channel / QPSK

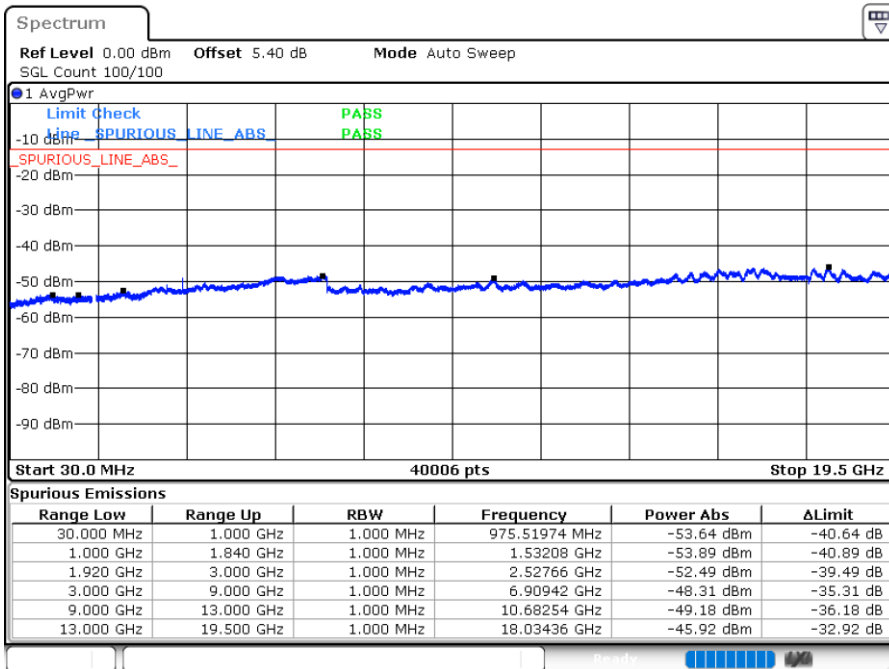
Middle Channel / QPSK



Date: 20.NOV.2022 14:43:13

Date: 20.NOV.2022 14:42:31

Highest Channel / QPSK



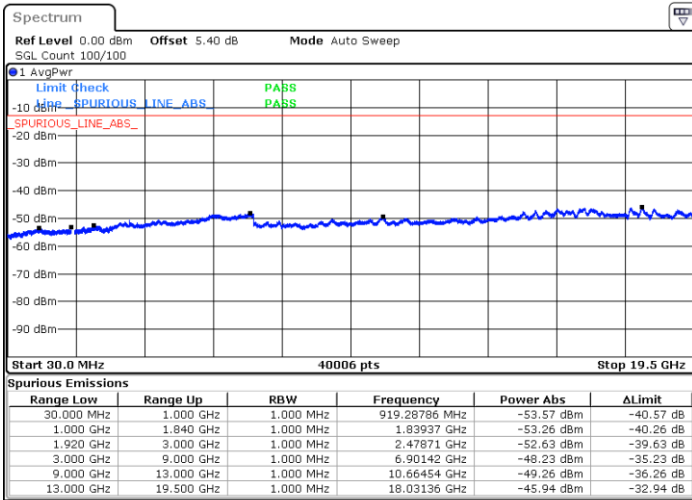
Date: 20.NOV.2022 14:41:22



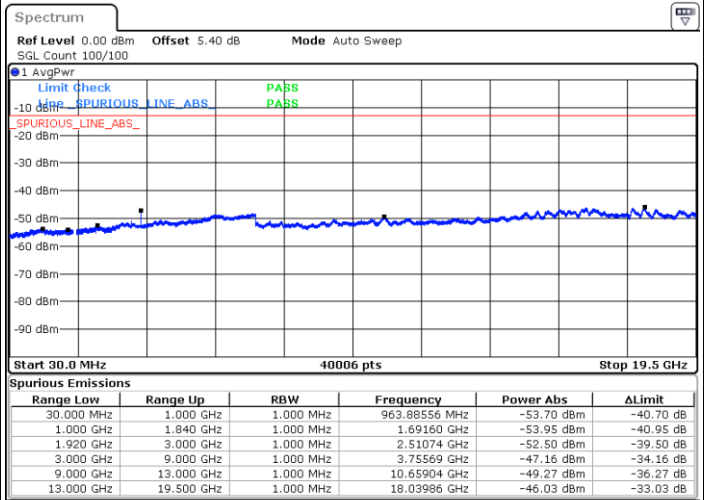
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

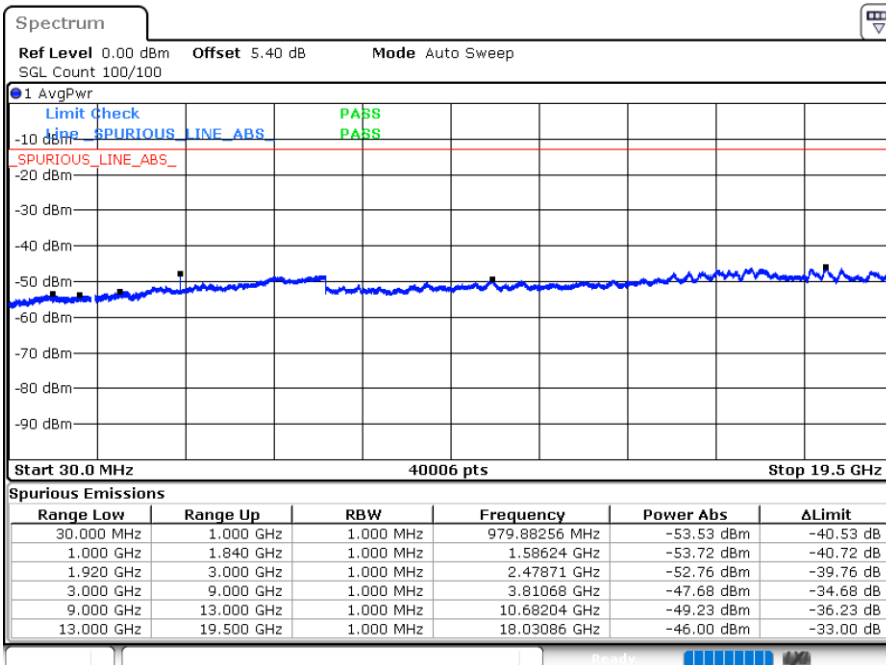


Date: 20.NOV.2022 14:58:18



Date: 20.NOV.2022 14:57:17

Highest Channel / QPSK



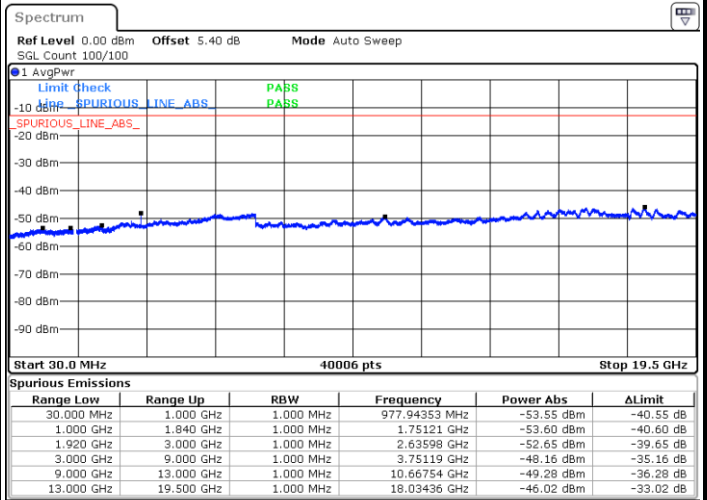
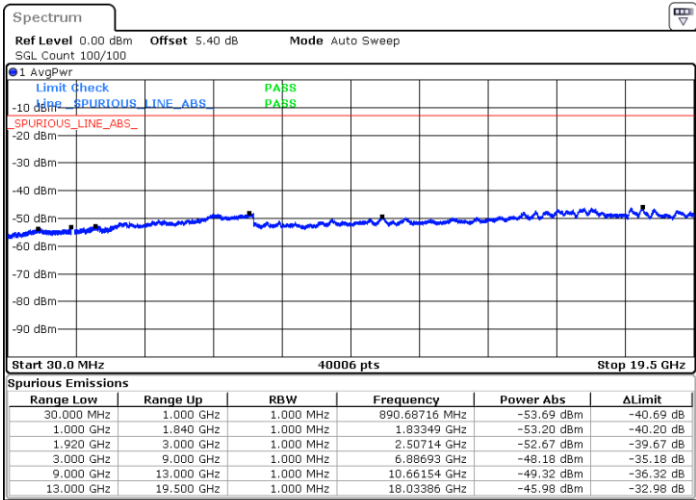
Date: 20.NOV.2022 14:56:16



LTE Band 2 / 10MHz

Lowest Channel / QPSK

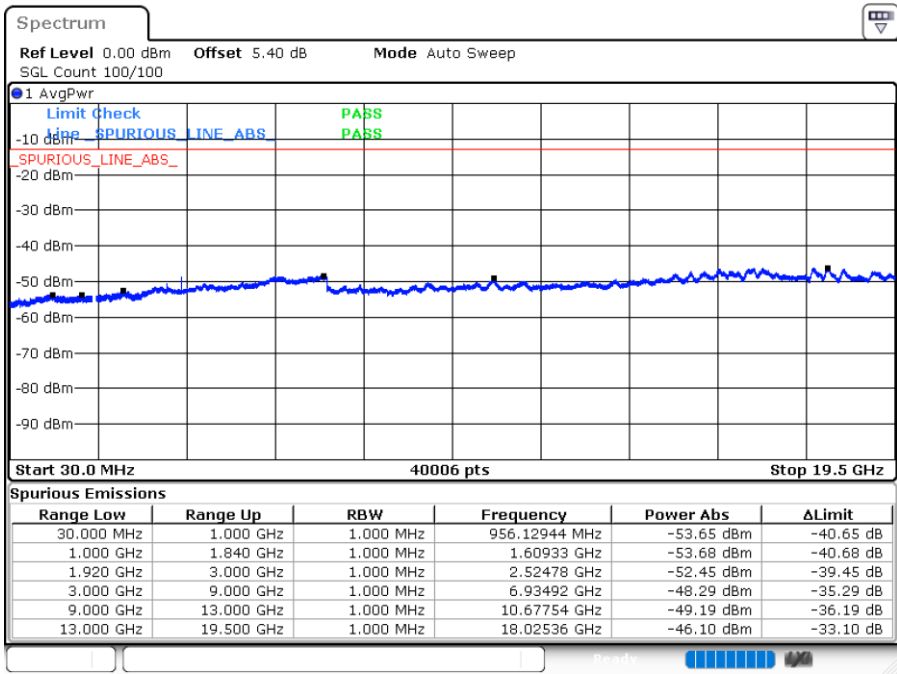
Middle Channel / QPSK



Date: 20.NOV.2022 15:10:50

Date: 20.NOV.2022 15:08:51

Highest Channel / QPSK



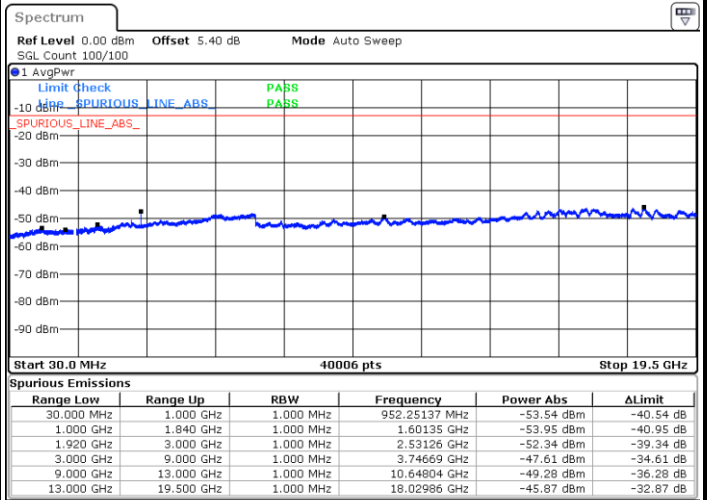
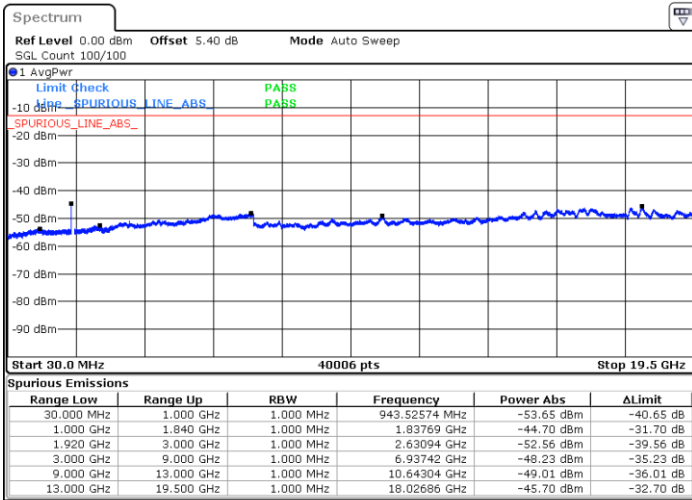
Date: 20.NOV.2022 15:07:52



LTE Band 2 / 15MHz

Lowest Channel / QPSK

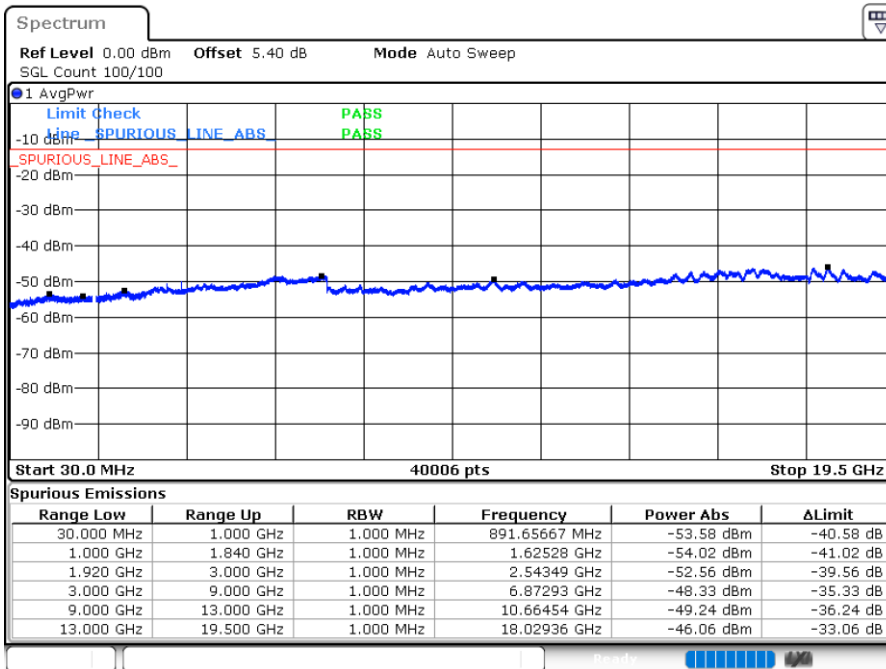
Middle Channel / QPSK



Date: 20.NOV.2022 15:21:39

Date: 20.NOV.2022 15:20:26

Highest Channel / QPSK



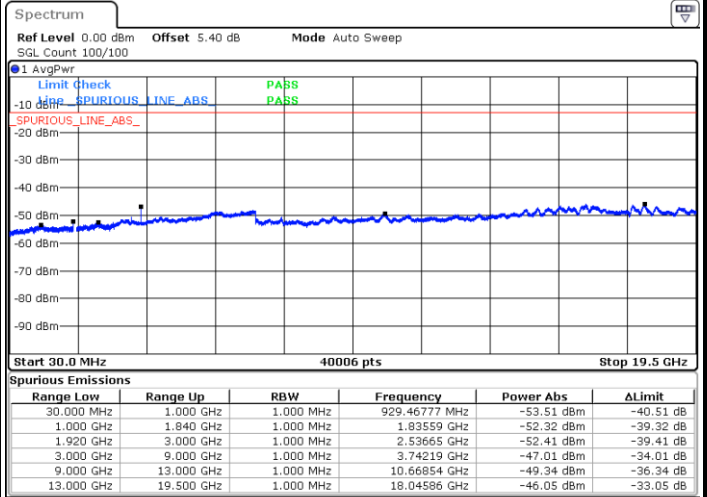
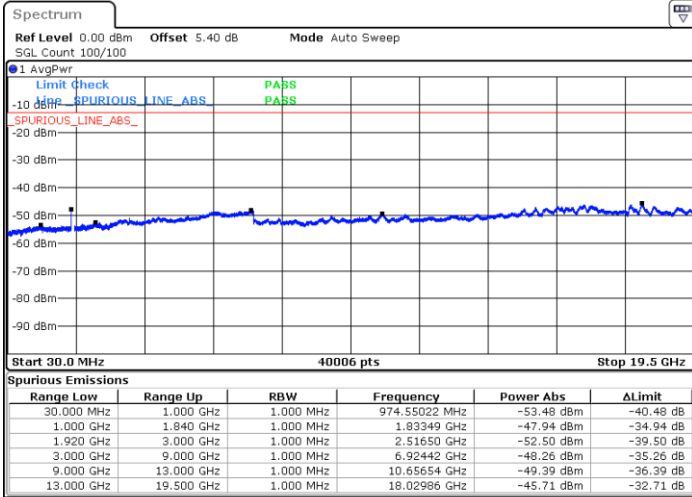
Date: 20.NOV.2022 15:19:27



LTE Band 2 / 20MHz

Lowest Channel / QPSK

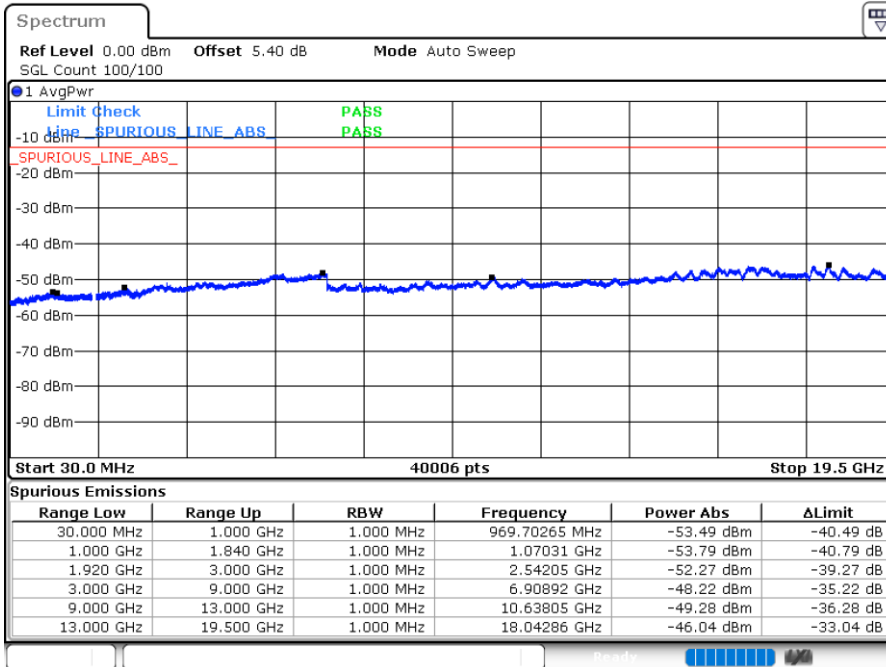
Middle Channel / QPSK



Date: 20.NOV.2022 15:36:10

Date: 20.NOV.2022 15:35:08

Highest Channel / QPSK



Date: 20.NOV.2022 15:34:03



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	0.0015	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0008	

Note:

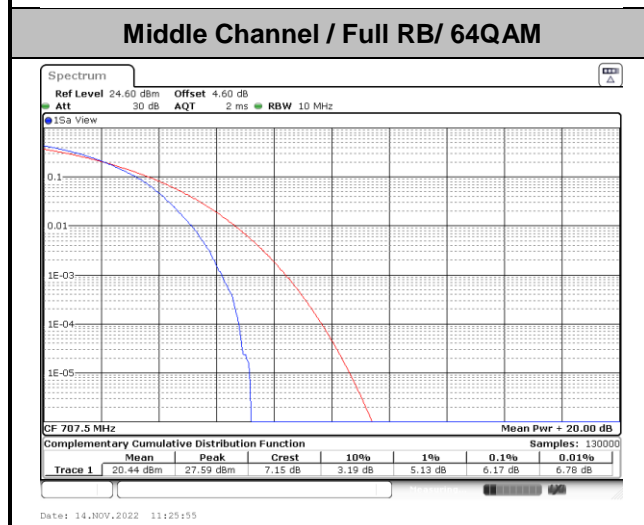
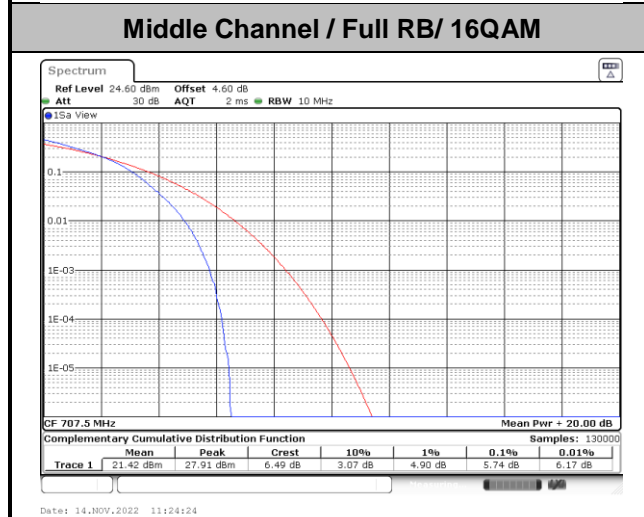
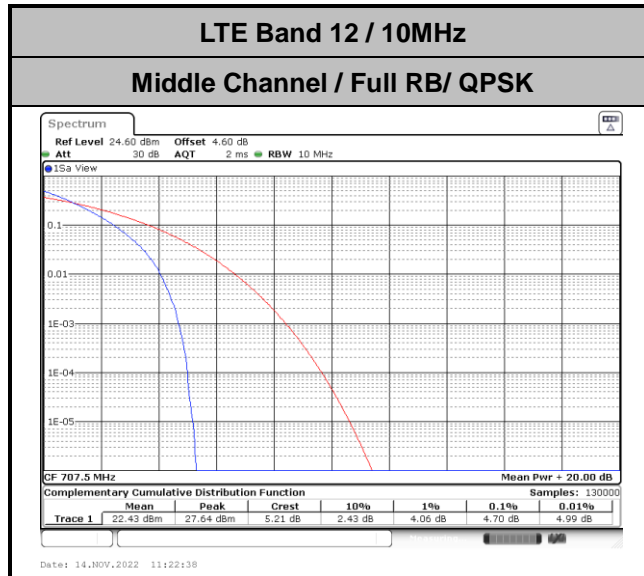
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

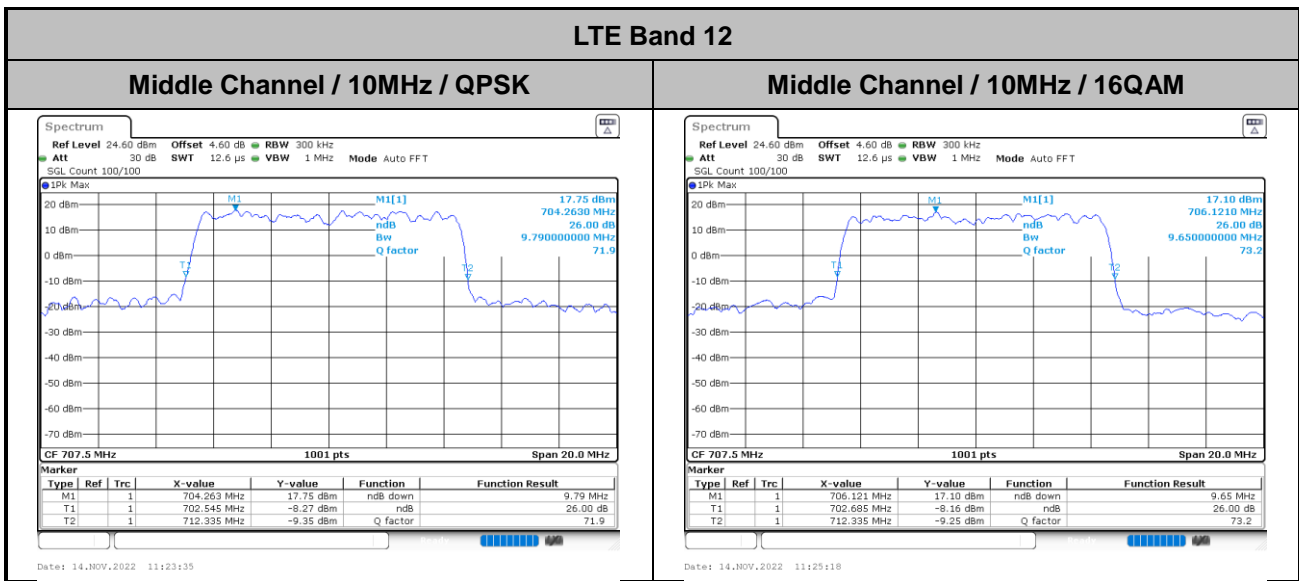
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.74	6.17	PASS





26dB Bandwidth

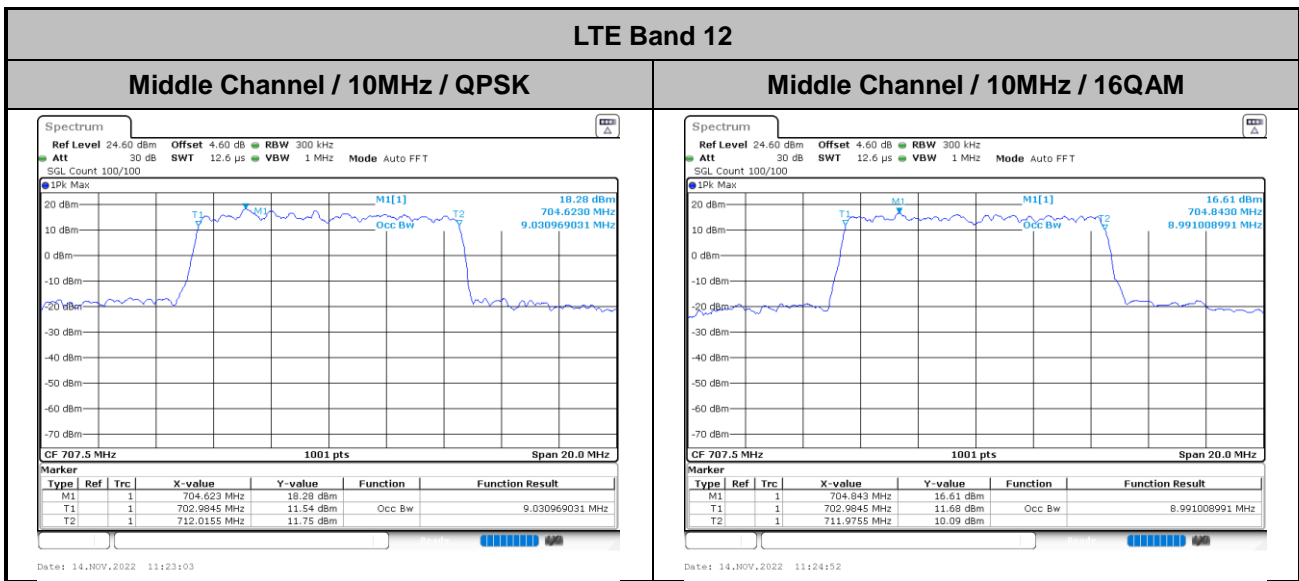
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.79	9.65





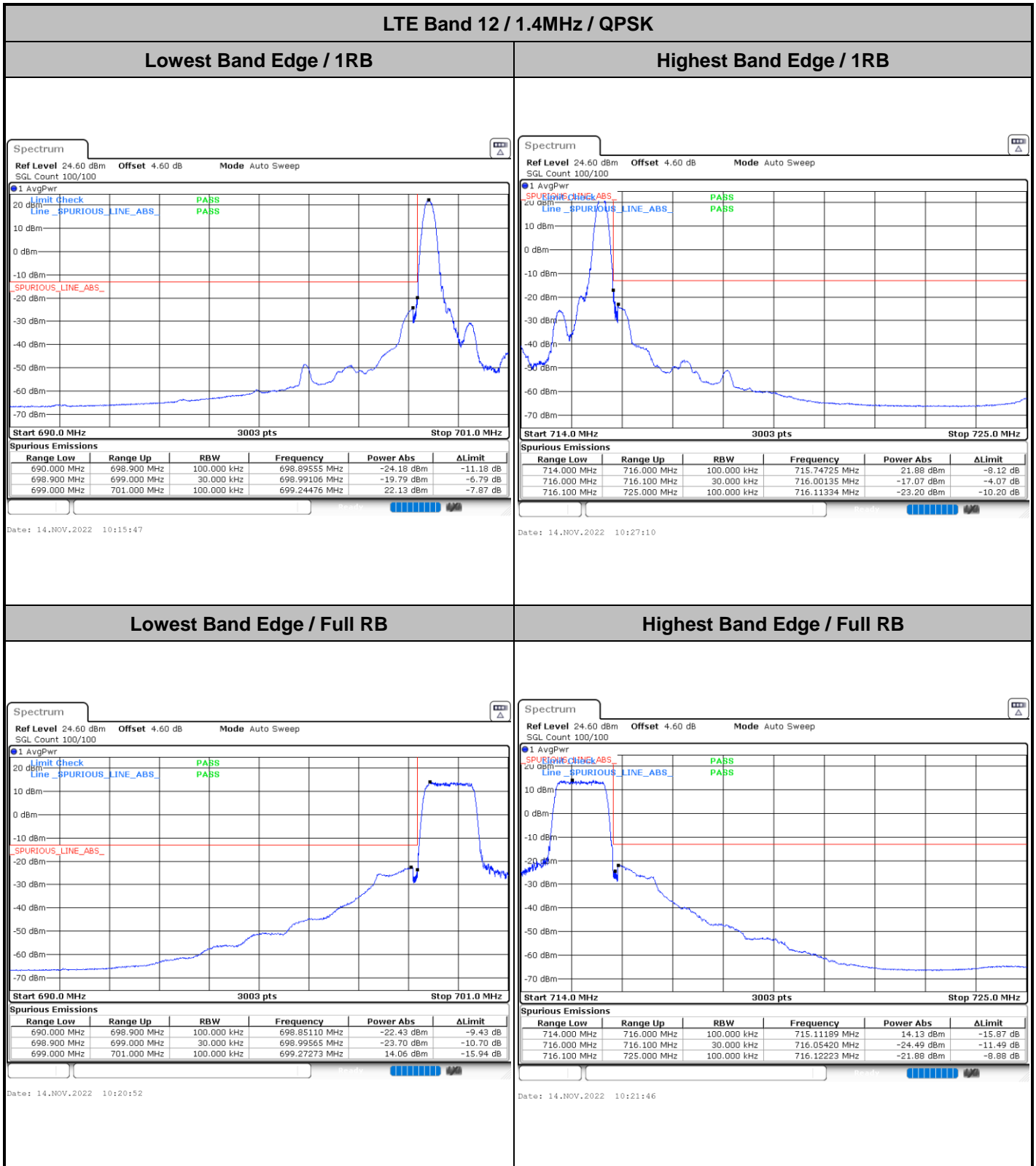
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.99





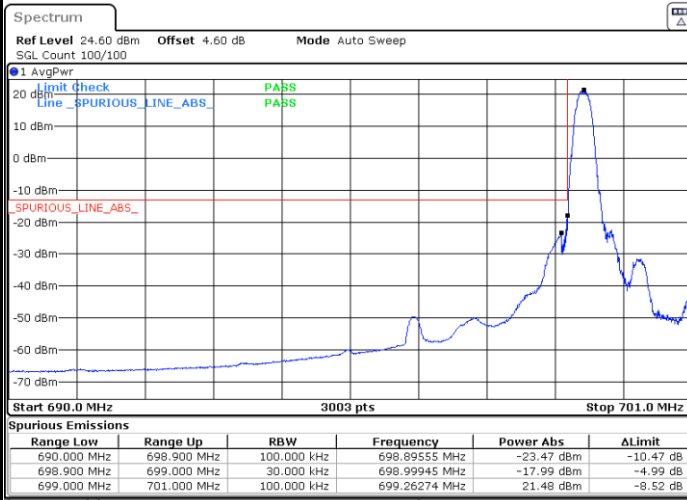
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



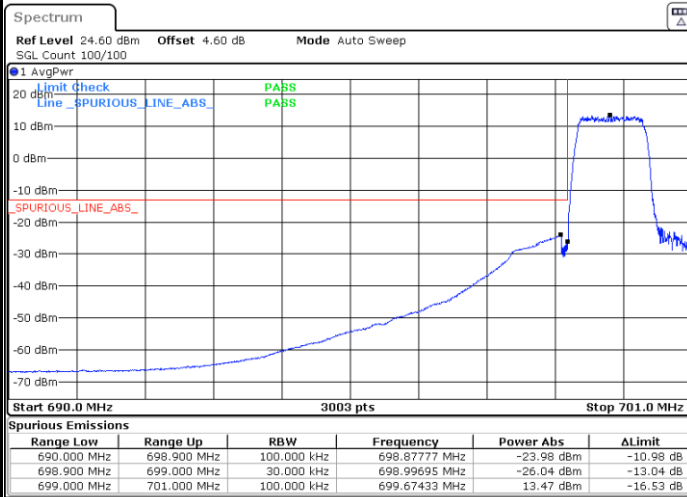
Date: 14.NOV.2022 10:16:58

Highest Band Edge / 1 RB



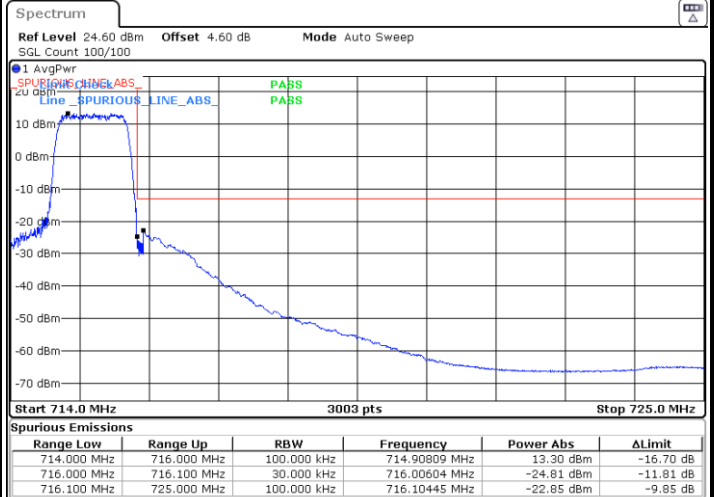
Date: 14.NOV.2022 10:26:23

Lowest Band Edge / Full RB



Date: 14.NOV.2022 10:19:57

Highest Band Edge / Full RB

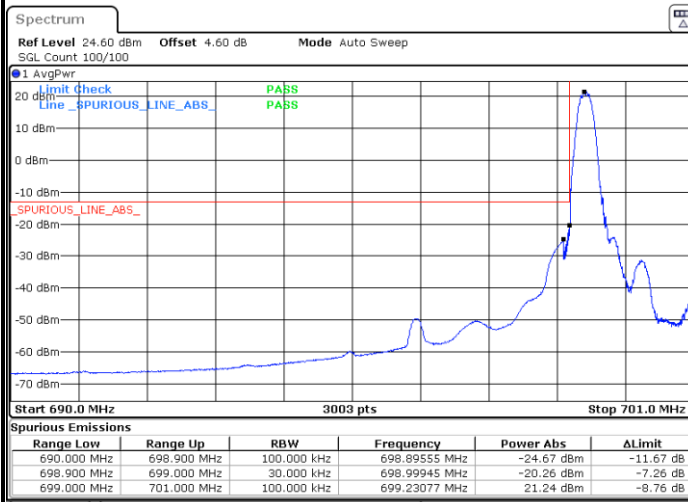


Date: 14.NOV.2022 10:22:41



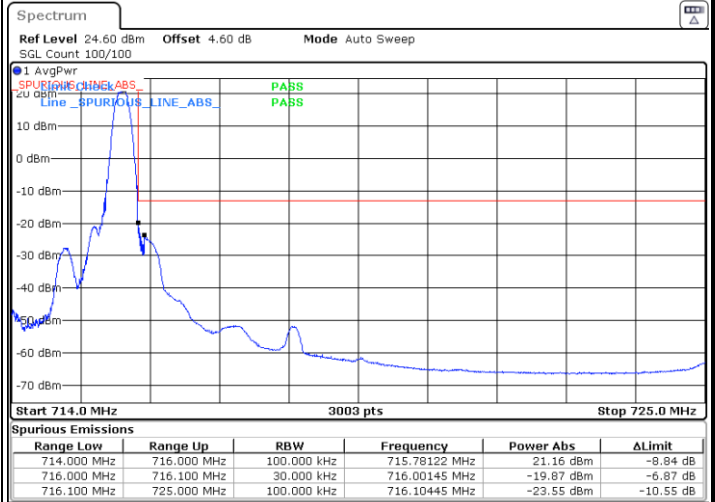
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



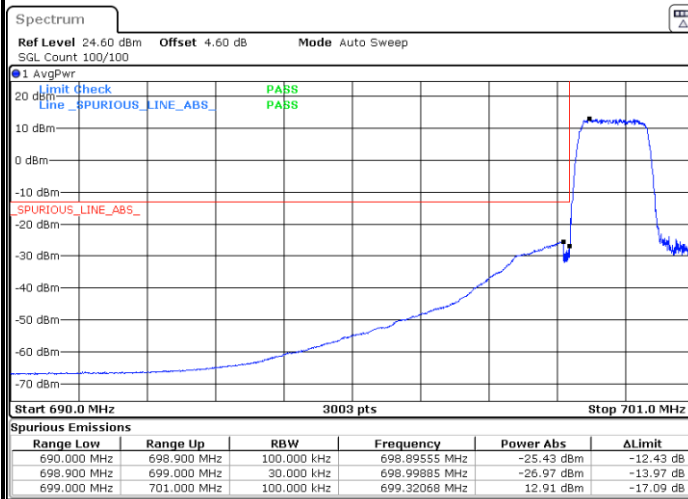
Date: 14.NOV.2022 10:17:50

Highest Band Edge / 1 RB



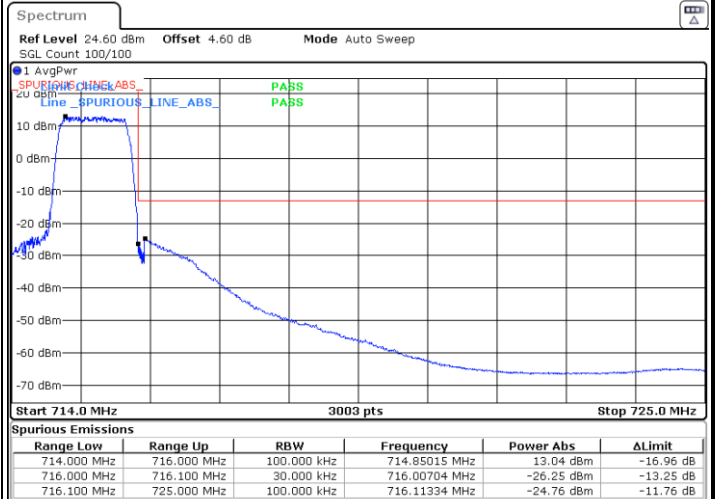
Date: 14.NOV.2022 10:24:43

Lowest Band Edge / Full RB



Date: 14.NOV.2022 10:18:47

Highest Band Edge / Full RB

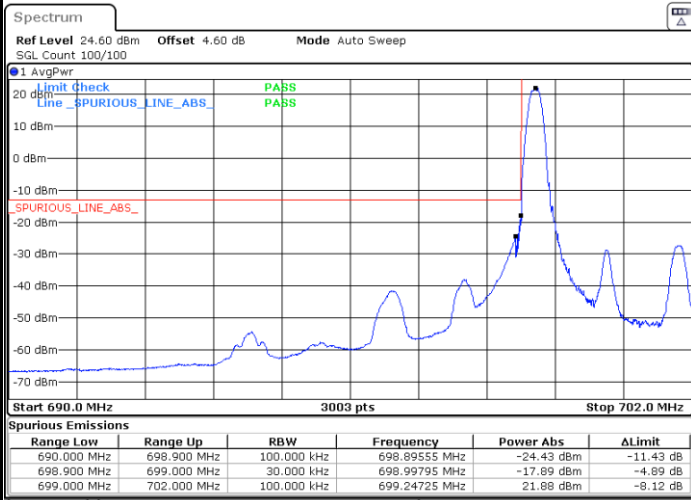


Date: 14.NOV.2022 10:23:33



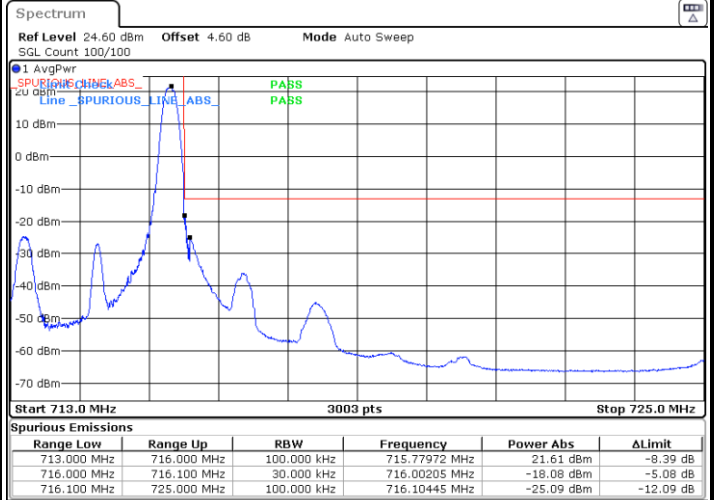
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



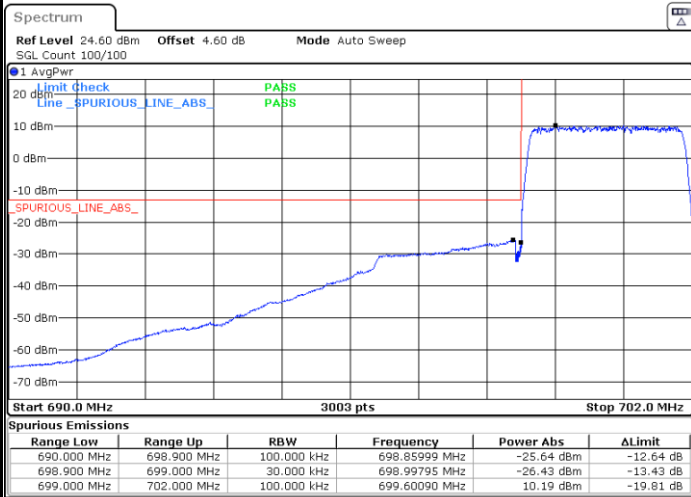
Date: 14.NOV.2022 10:31:53

Highest Band Edge / 1 RB



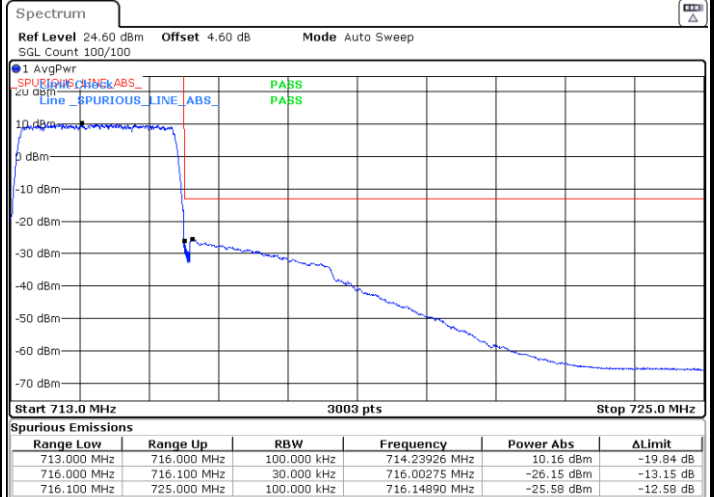
Date: 14.NOV.2022 10:47:49

Lowest Band Edge / Full RB



Date: 14.NOV.2022 10:41:16

Highest Band Edge / Full RB

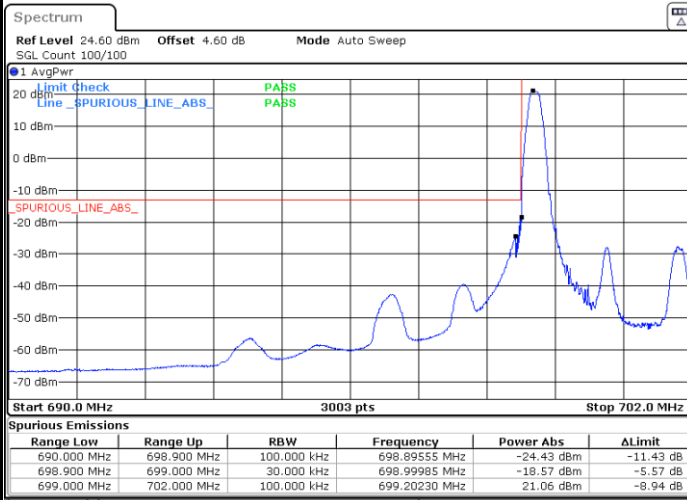


Date: 14.NOV.2022 10:42:14



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



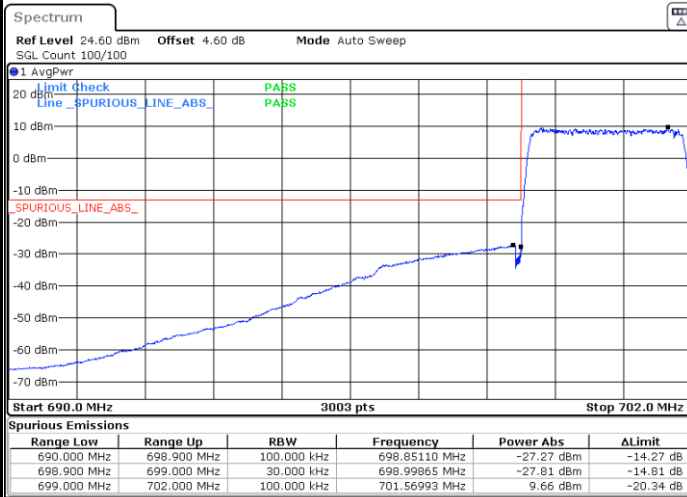
Date: 14.NOV.2022 10:32:59

Highest Band Edge / 1 RB



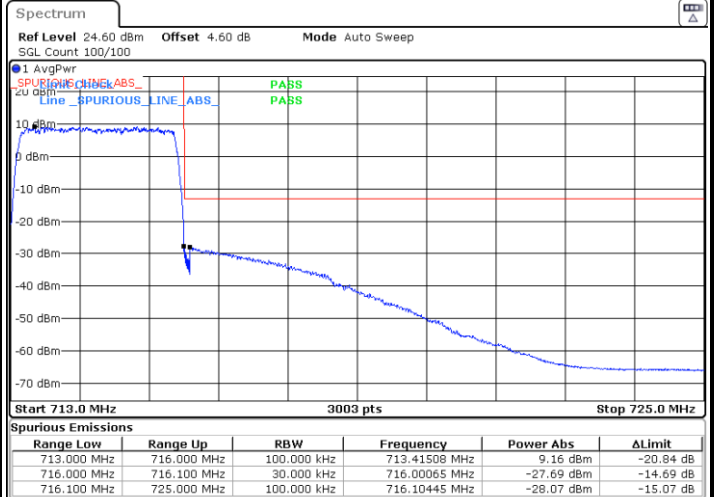
Date: 14.NOV.2022 10:46:52

Lowest Band Edge / Full RB



Date: 14.NOV.2022 10:40:11

Highest Band Edge / Full RB

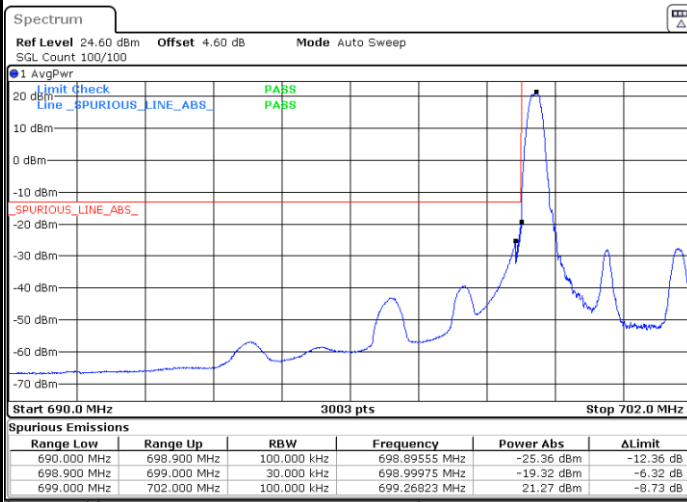


Date: 14.NOV.2022 10:43:12



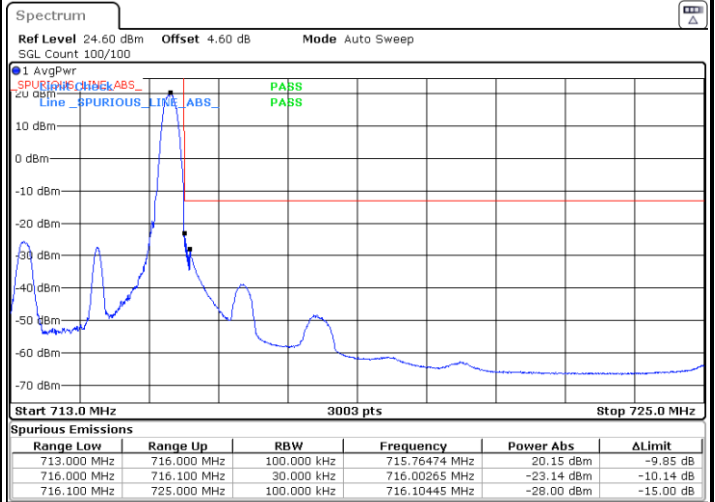
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



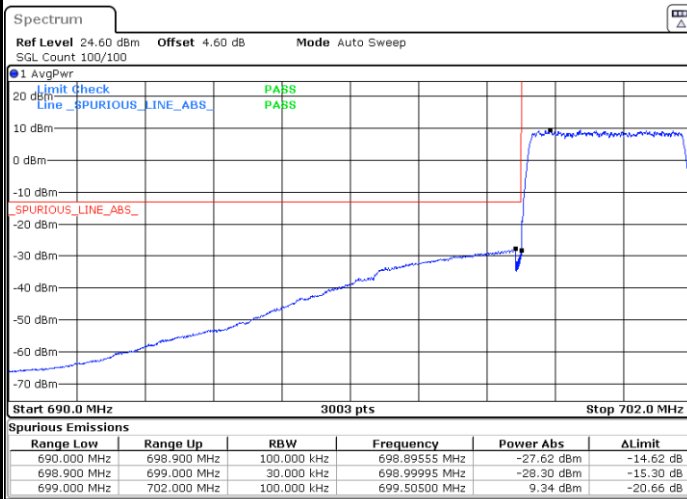
Date: 14.NOV.2022 10:33:51

Highest Band Edge / 1 RB



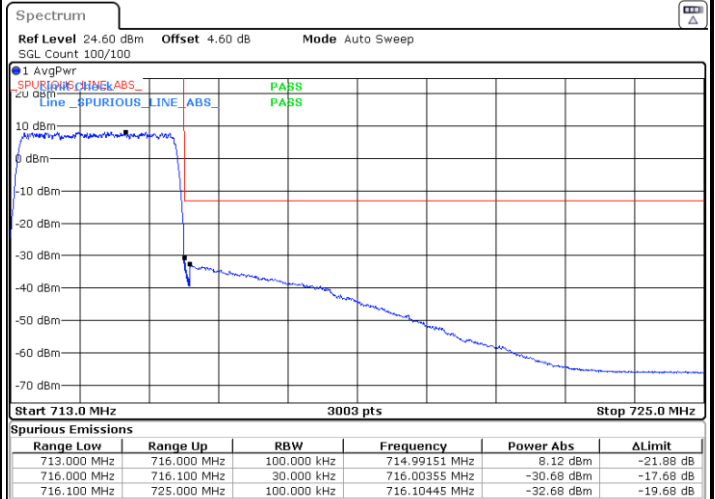
Date: 14.NOV.2022 10:45:59

Lowest Band Edge / Full RB



Date: 14.NOV.2022 10:34:40

Highest Band Edge / Full RB

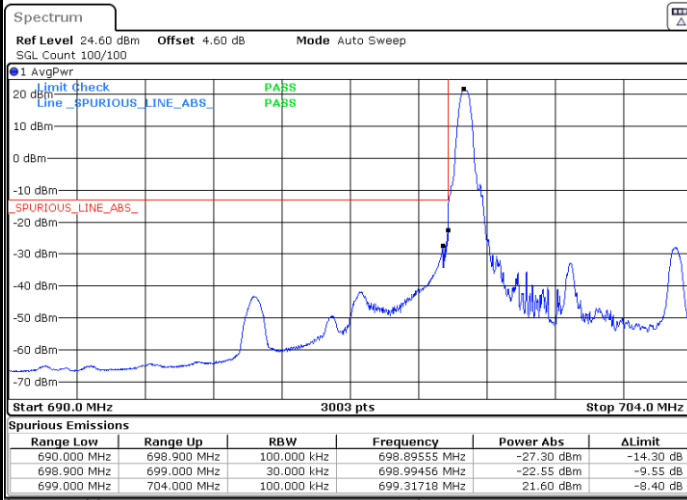


Date: 14.NOV.2022 10:44:50



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



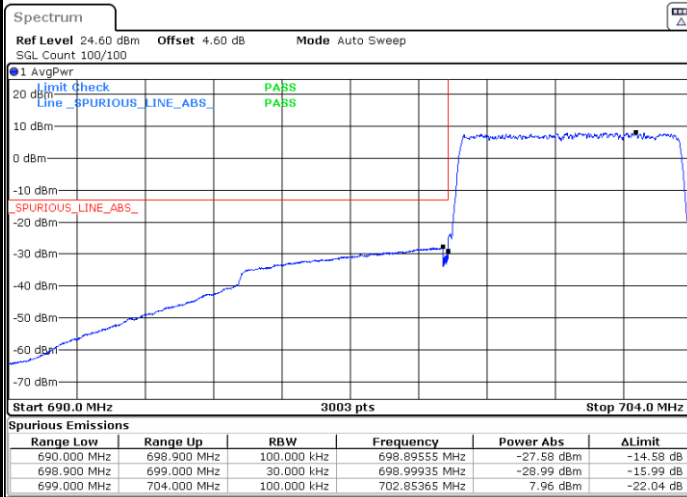
Date: 14.NOV.2022 10:53:02

Highest Band Edge / 1 RB



Date: 14.NOV.2022 11:03:34

Lowest Band Edge / Full RB



Date: 14.NOV.2022 10:57:49

Highest Band Edge / Full RB

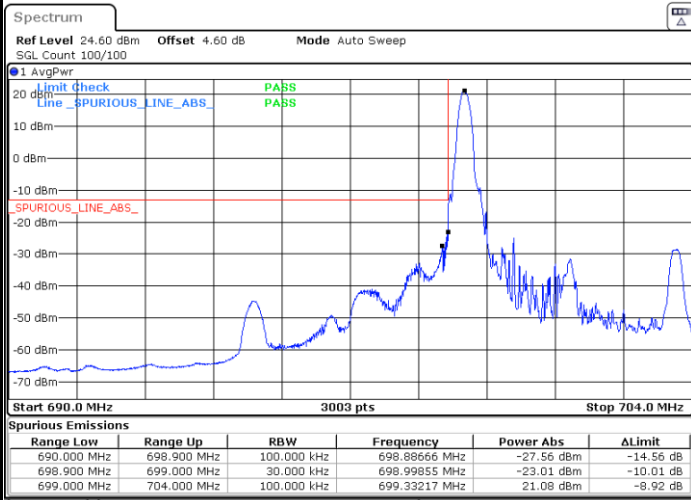


Date: 14.NOV.2022 10:58:40



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



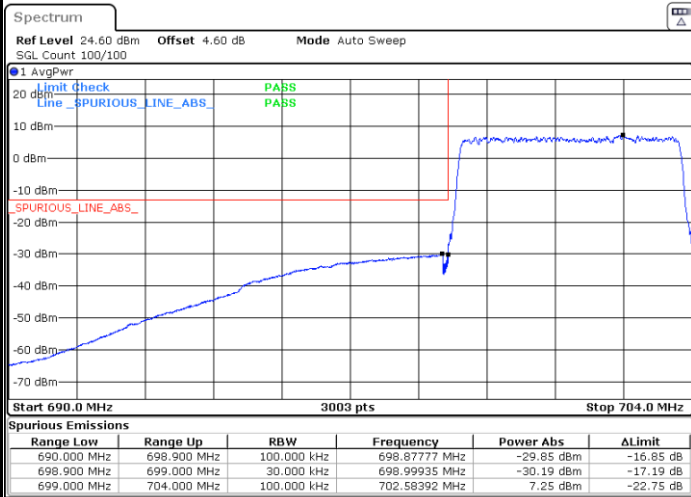
Date: 14.NOV.2022 10:53:57

Highest Band Edge / 1 RB



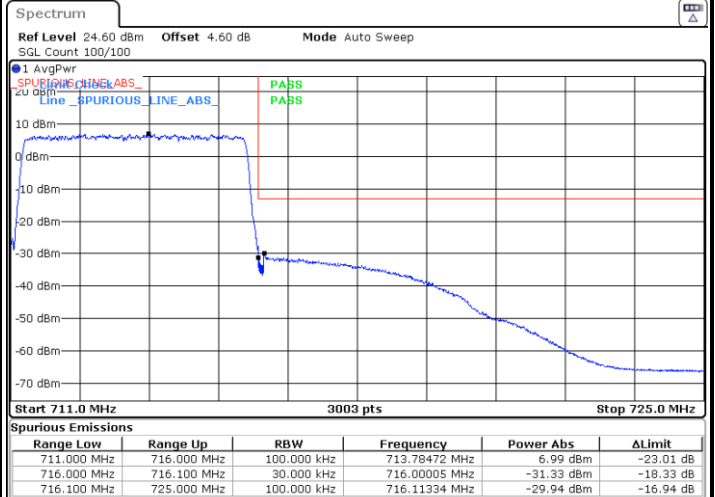
Date: 14.NOV.2022 11:02:42

Lowest Band Edge / Full RB



Date: 14.NOV.2022 10:56:57

Highest Band Edge / Full RB

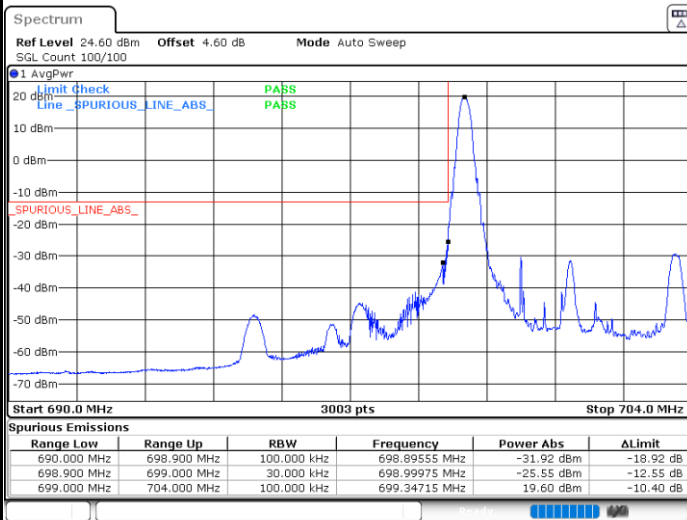


Date: 14.NOV.2022 10:59:37

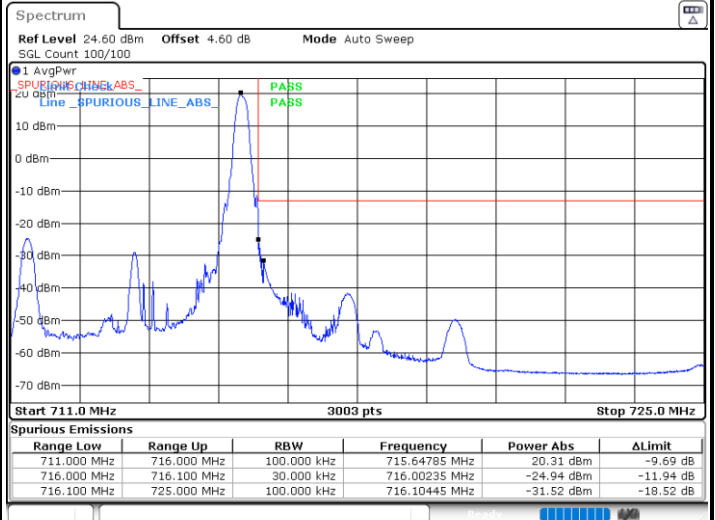


LTE Band 12 / 5MHz / 64QAM

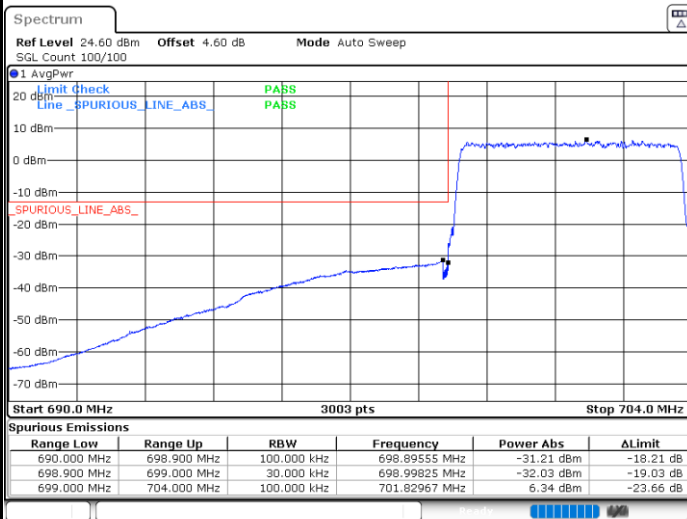
Lowest Band Edge / 1RB



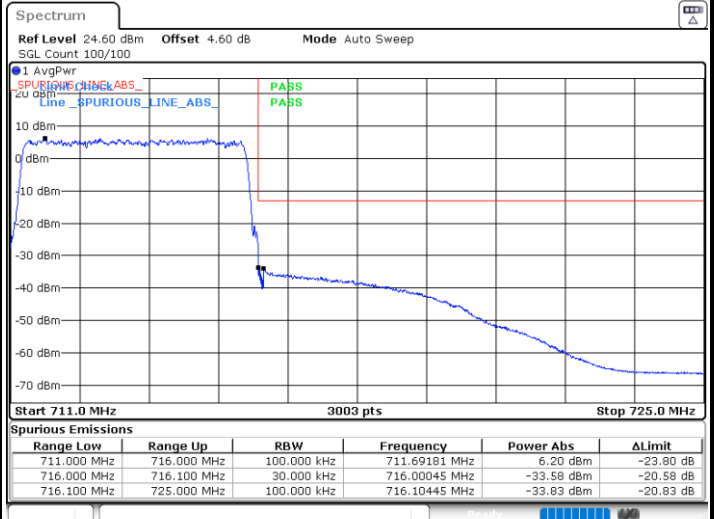
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



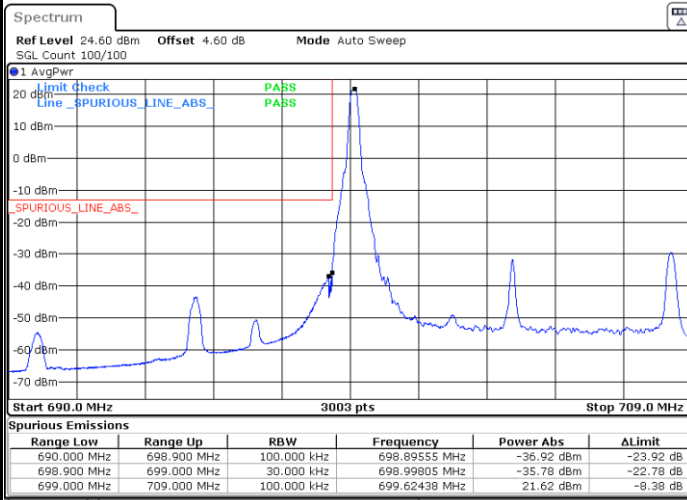
Highest Band Edge / Full RB





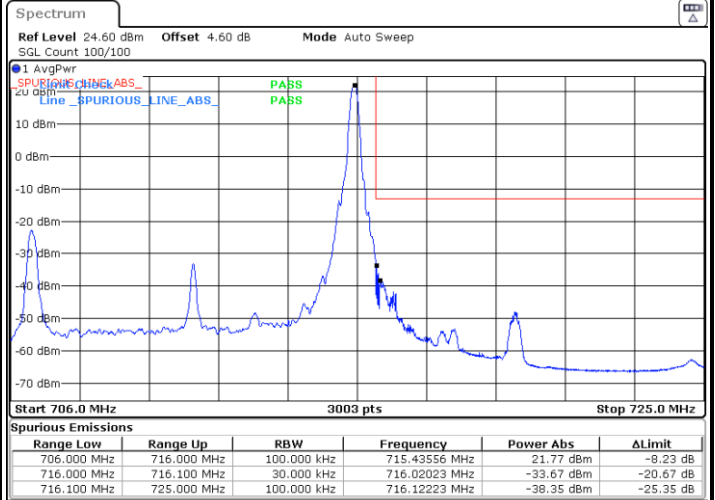
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



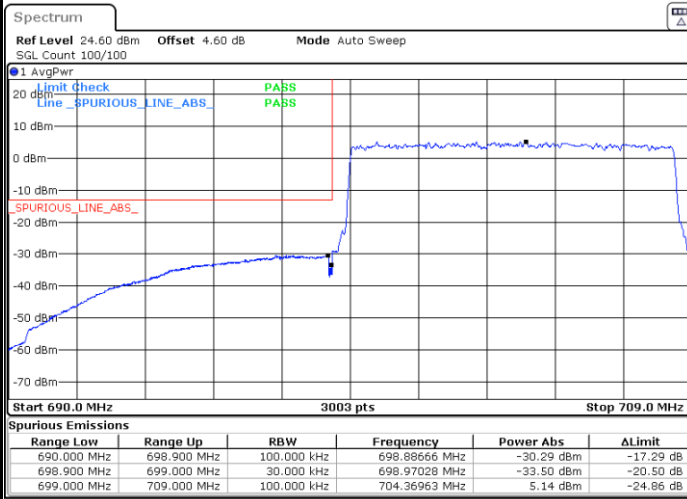
Date: 14.NOV.2022 11:08:33

Highest Band Edge / 1 RB



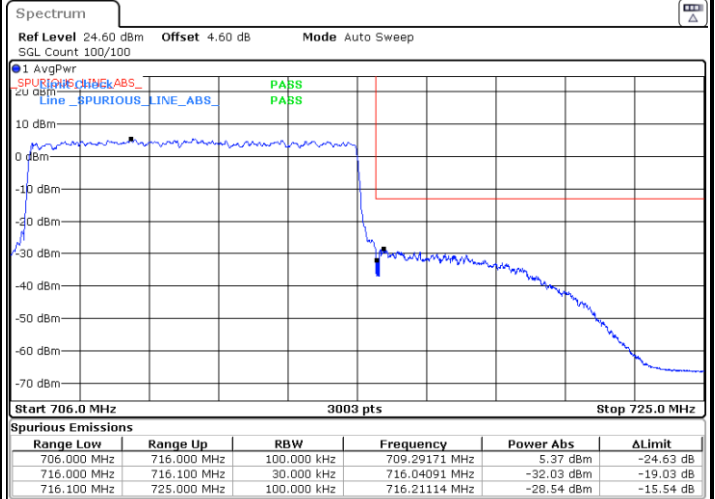
Date: 14.NOV.2022 11:19:16

Lowest Band Edge / Full RB



Date: 14.NOV.2022 11:13:18

Highest Band Edge / Full RB

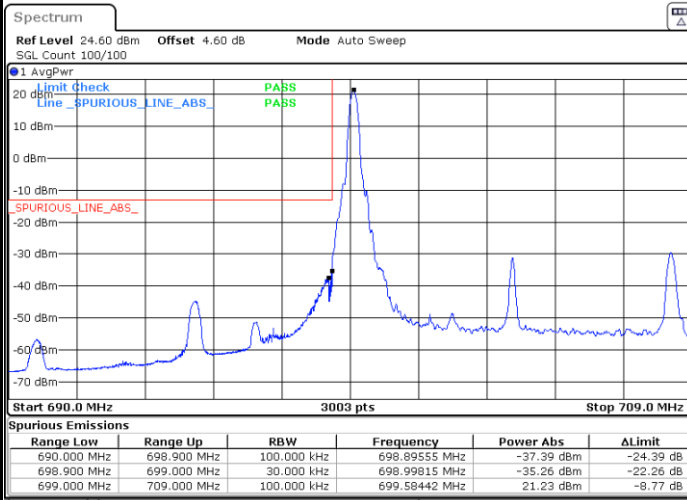


Date: 14.NOV.2022 11:14:26



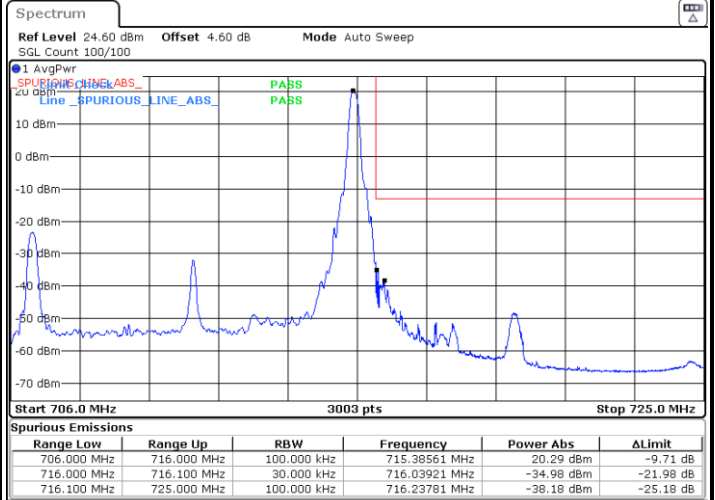
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



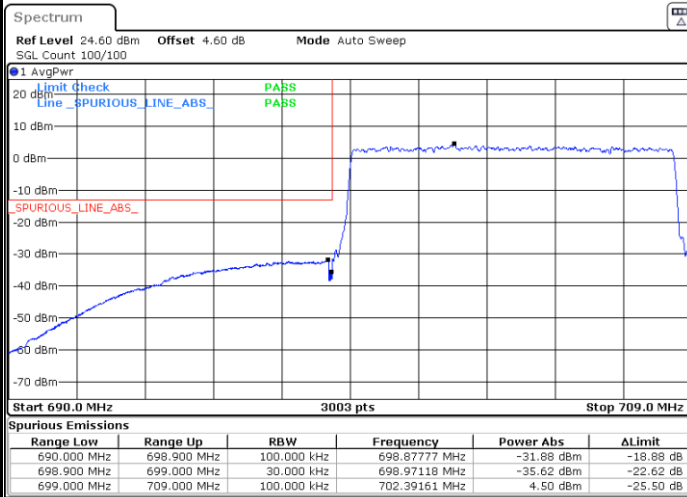
Date: 14.NOV.2022 11:09:34

Highest Band Edge / 1 RB



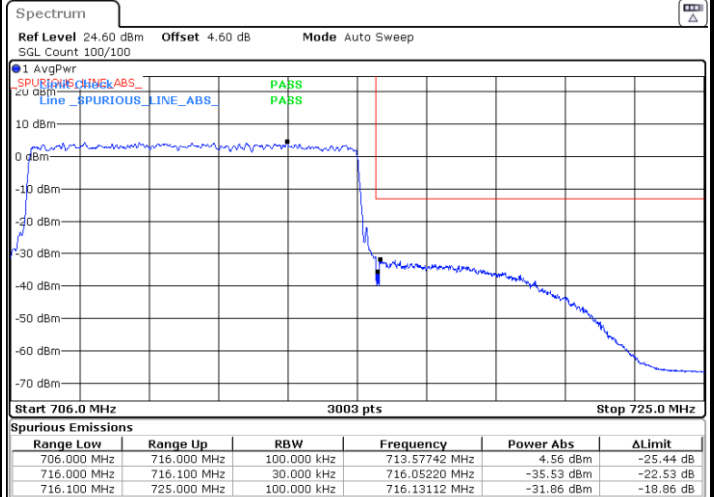
Date: 14.NOV.2022 11:18:25

Lowest Band Edge / Full RB



Date: 14.NOV.2022 11:12:20

Highest Band Edge / Full RB

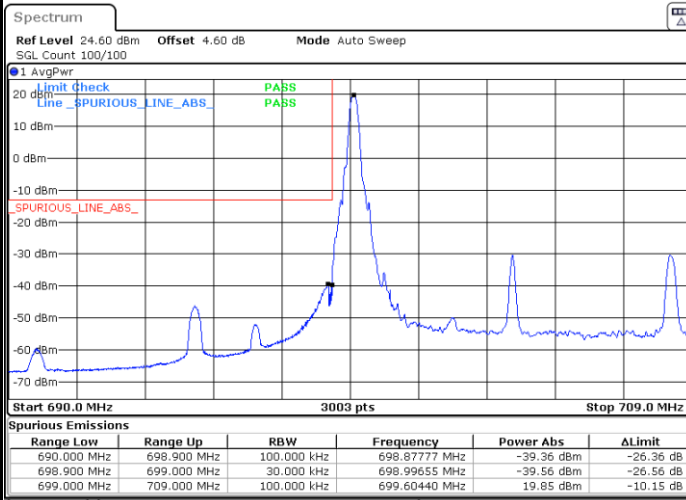


Date: 14.NOV.2022 11:15:33



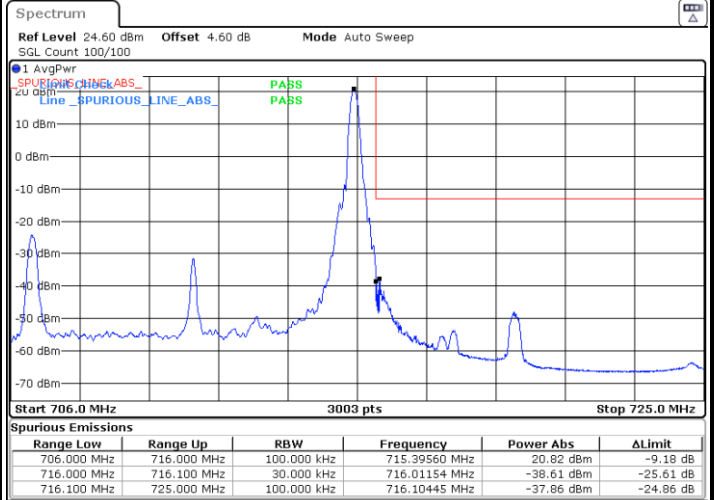
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



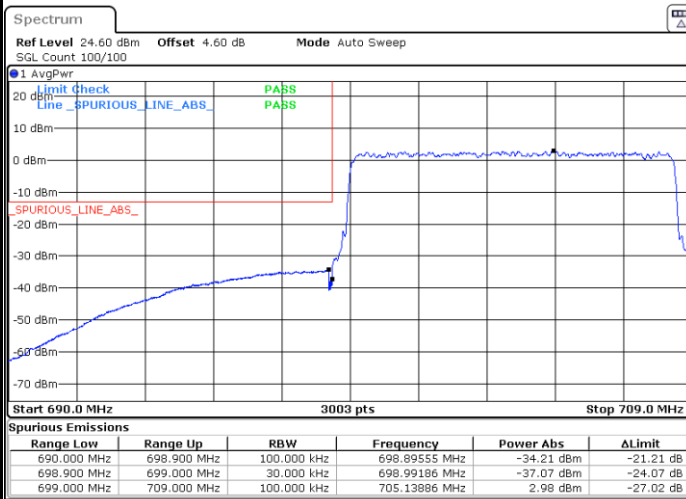
Date: 14.NOV.2022 11:10:25

Highest Band Edge / 1 RB



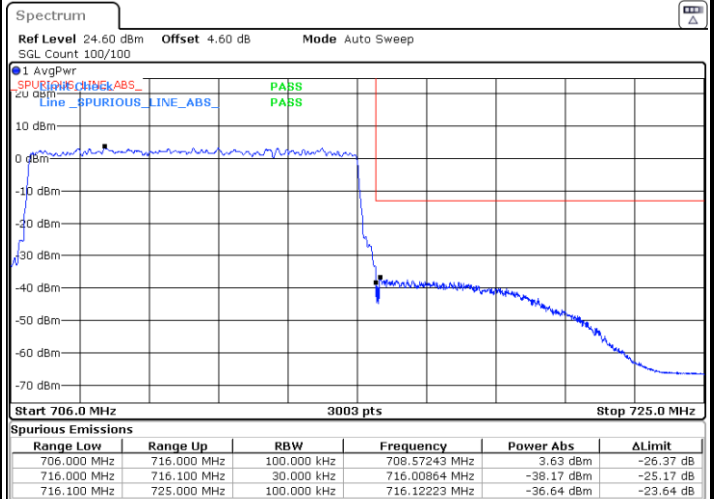
Date: 14.NOV.2022 11:17:29

Lowest Band Edge / Full RB



Date: 14.NOV.2022 11:11:27

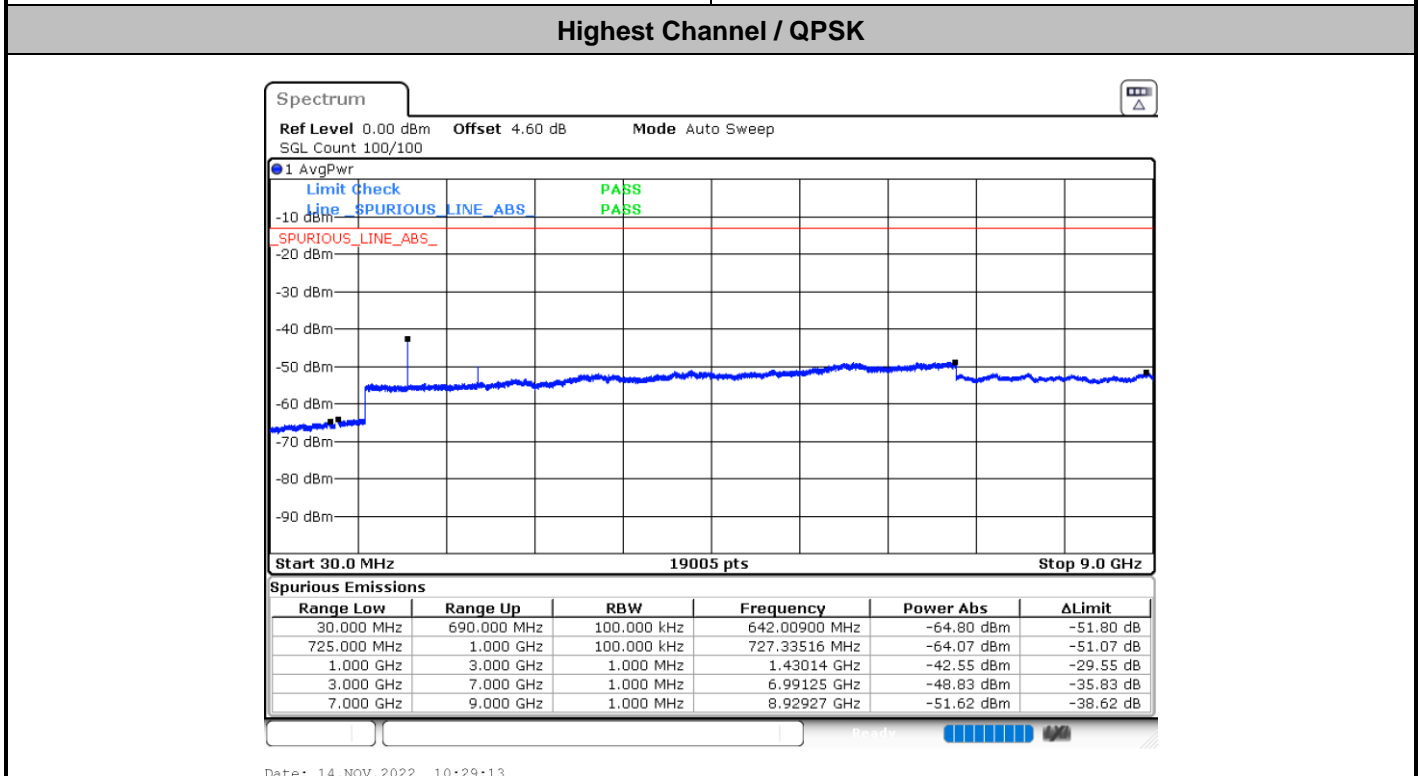
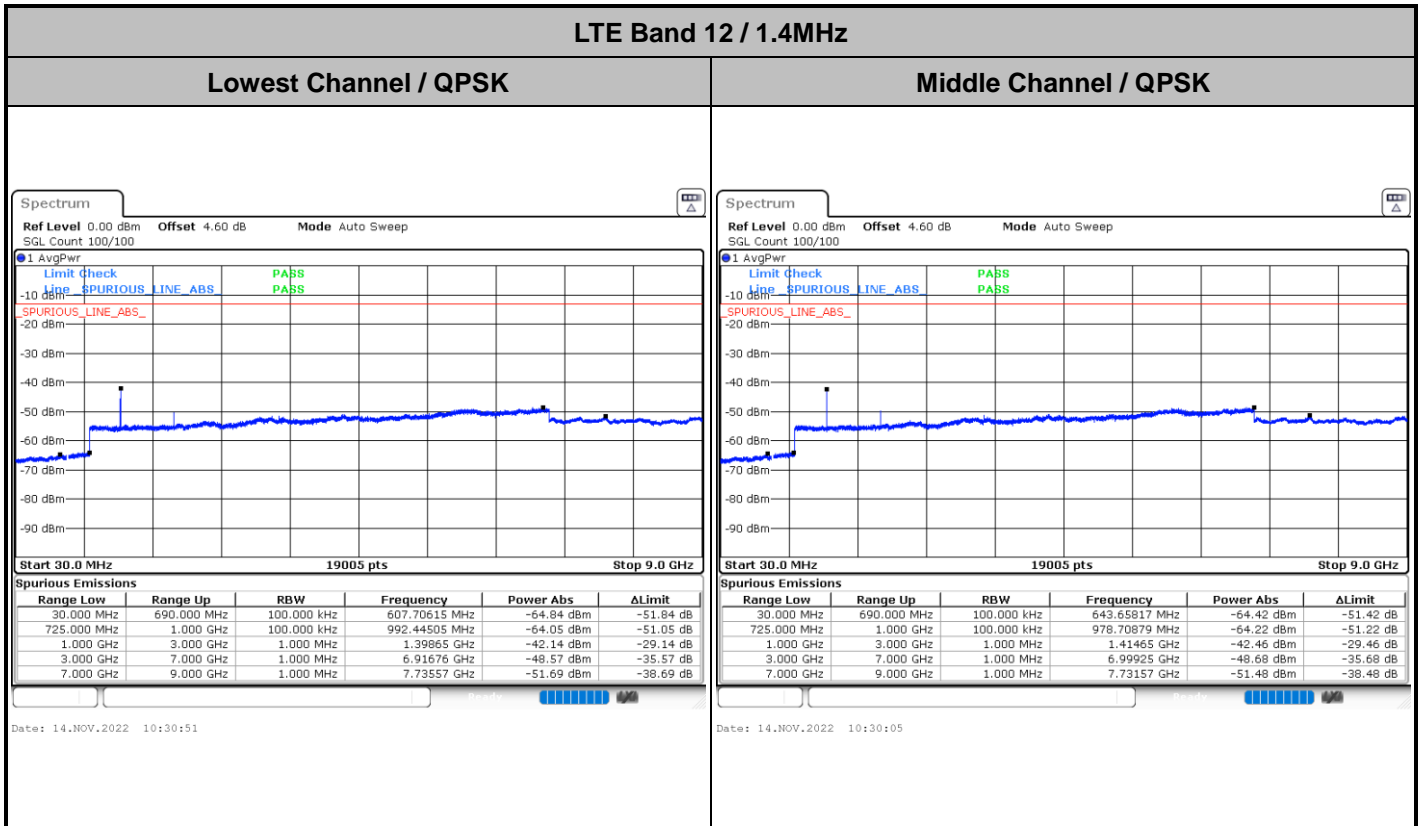
Highest Band Edge / Full RB



Date: 14.NOV.2022 11:16:25



Conducted Spurious Emission

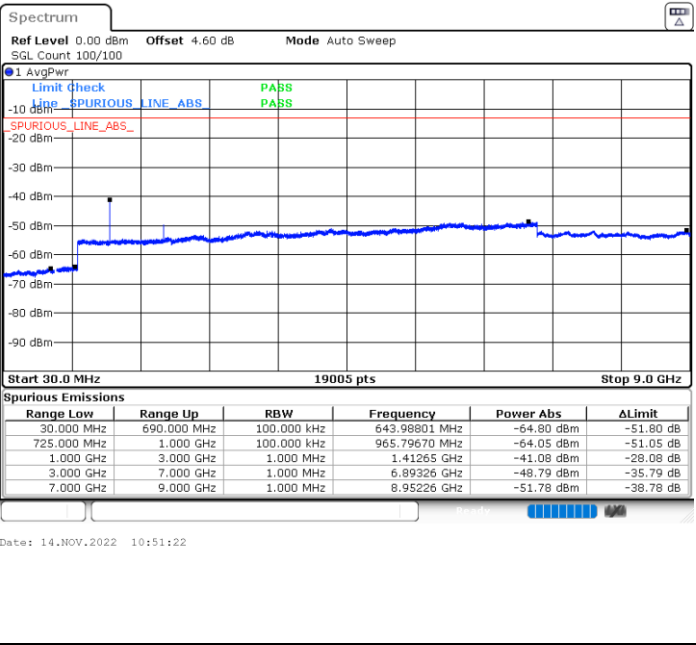
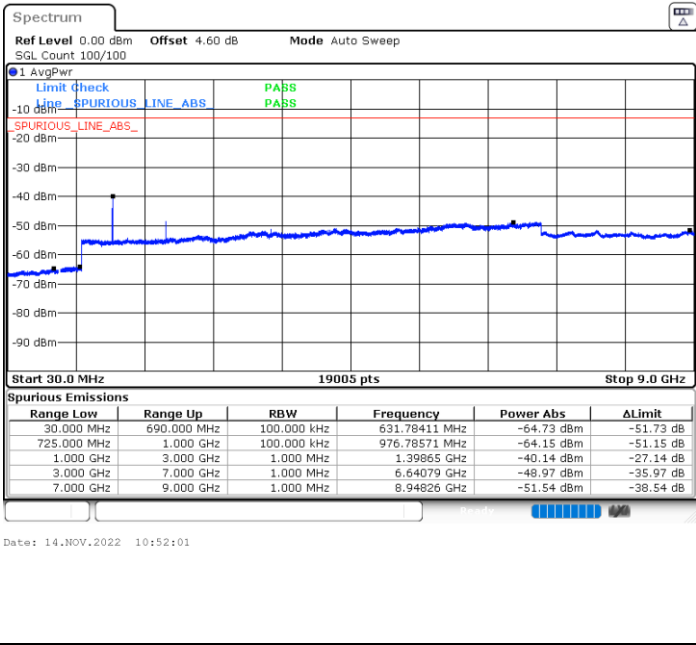




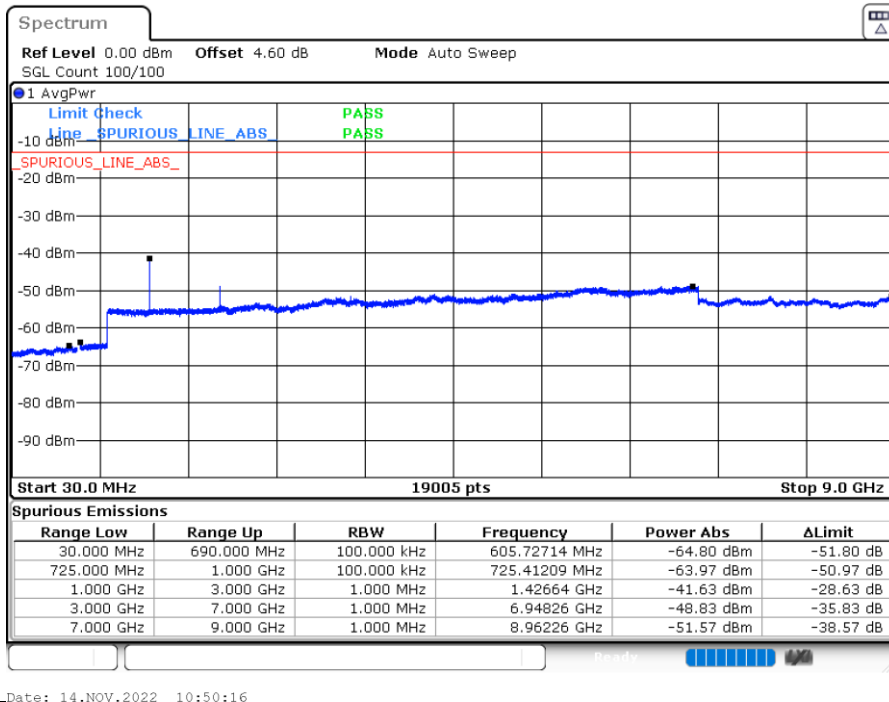
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

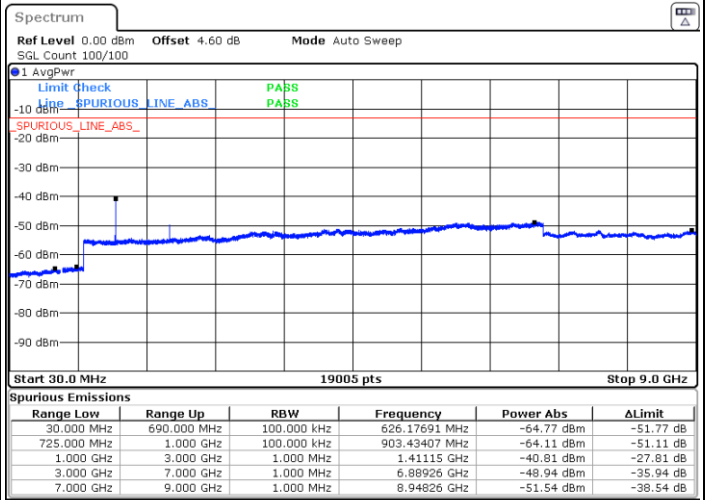
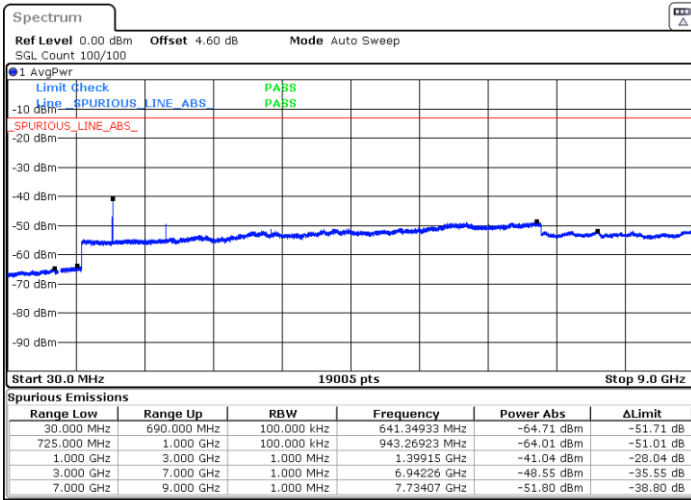




LTE Band 12 / 5MHz

Lowest Channel / QPSK

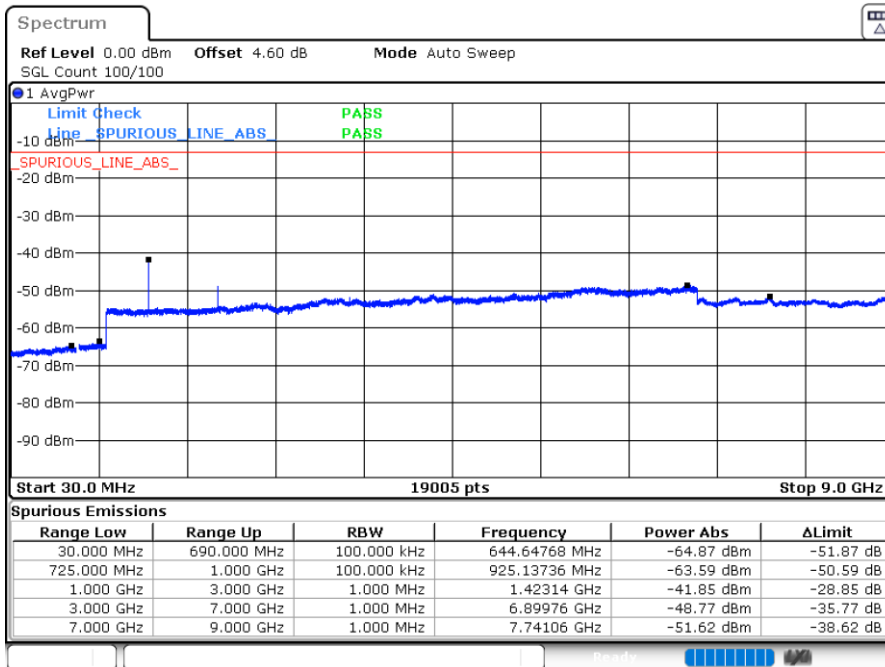
Middle Channel / QPSK



Date: 14.NOV.2022 11:06:48

Date: 14.NOV.2022 11:05:54

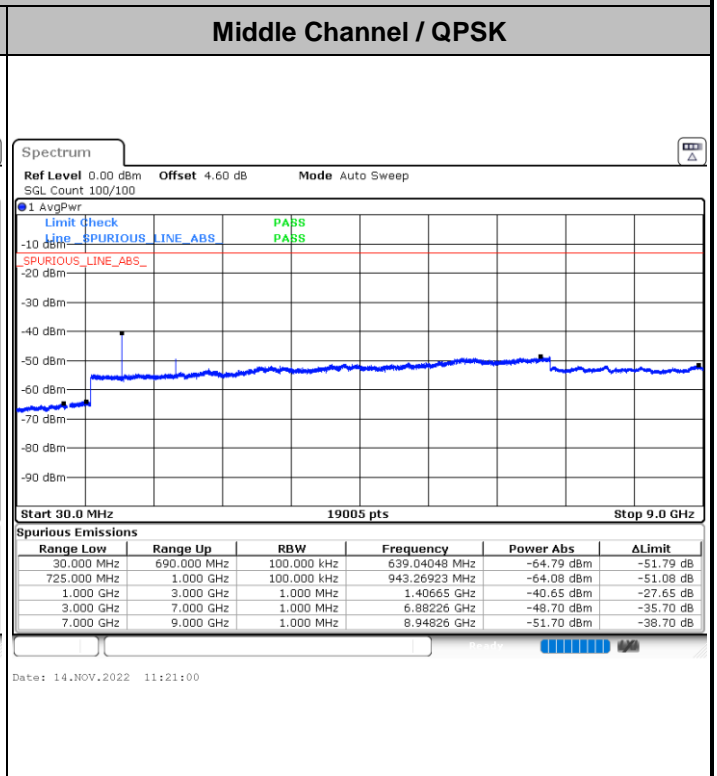
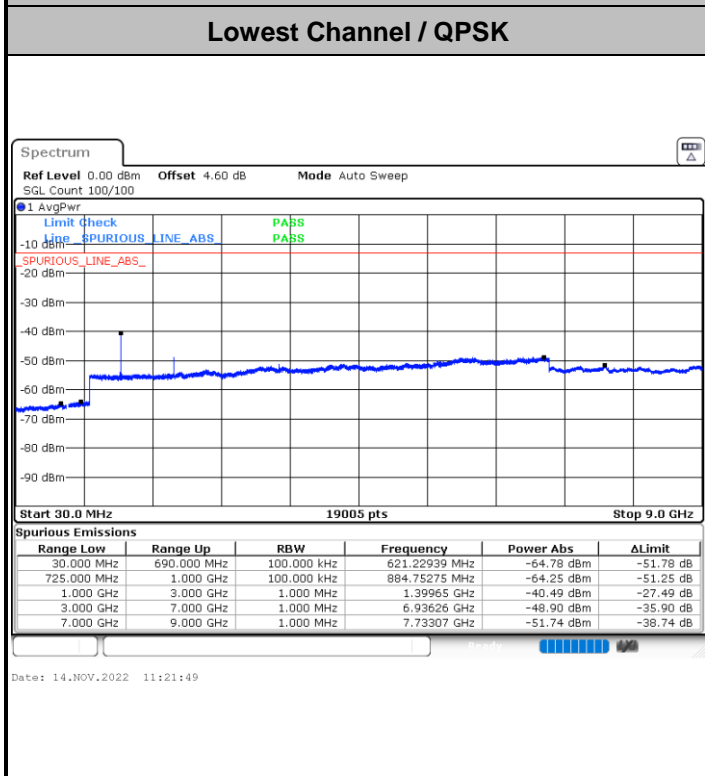
Highest Channel / QPSK



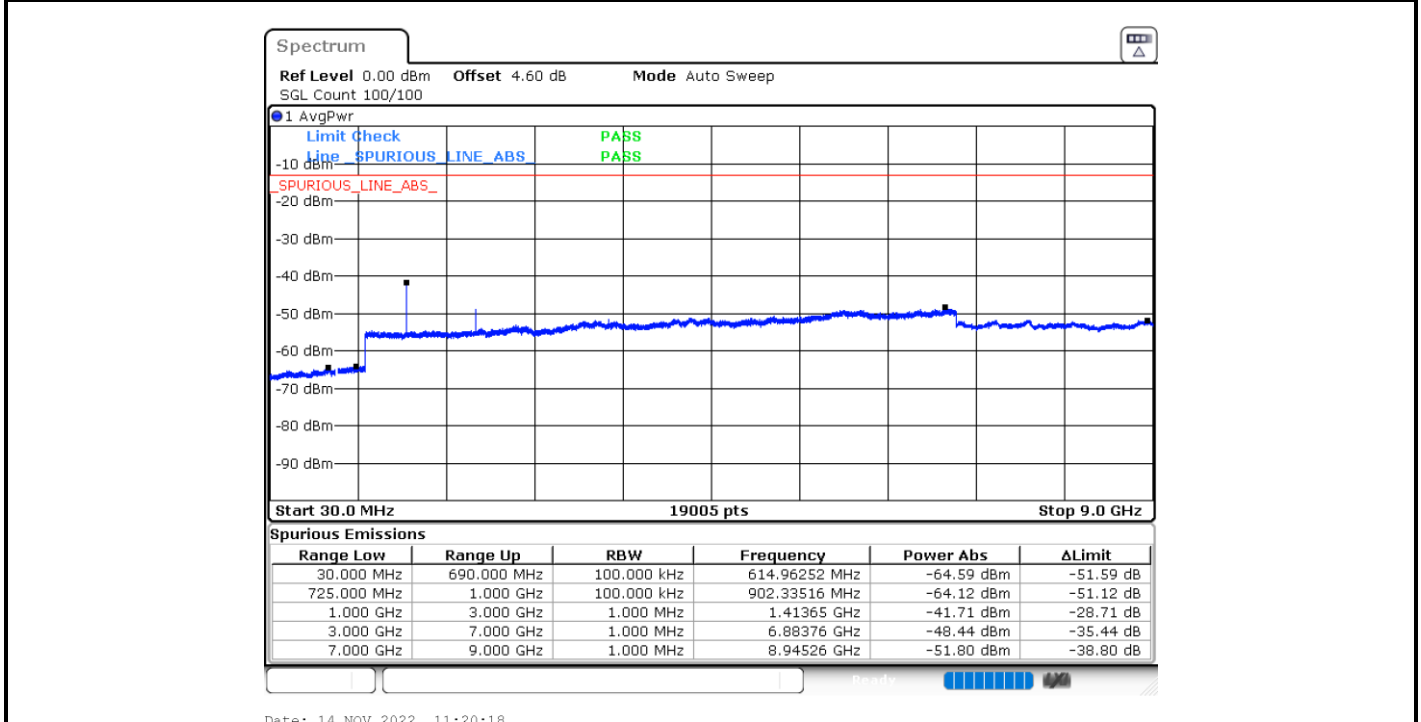
Date: 14.NOV.2022 11:04:46



LTE Band 12 / 10MHz



Highest Channel / QPSK





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	0.0008	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0027	
20	Battery End Point	0.0016	

Note:

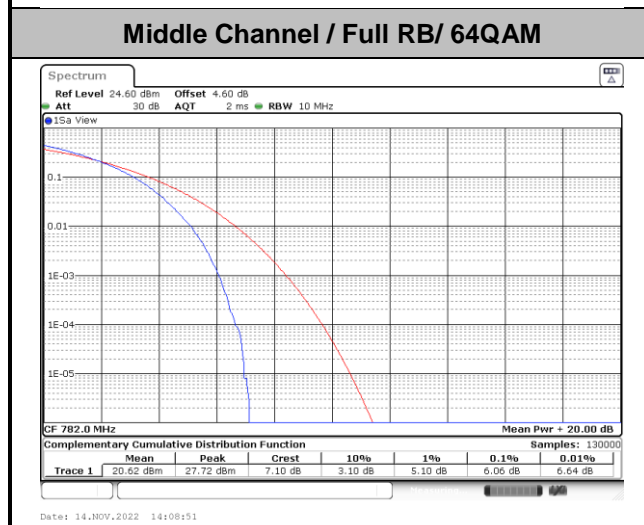
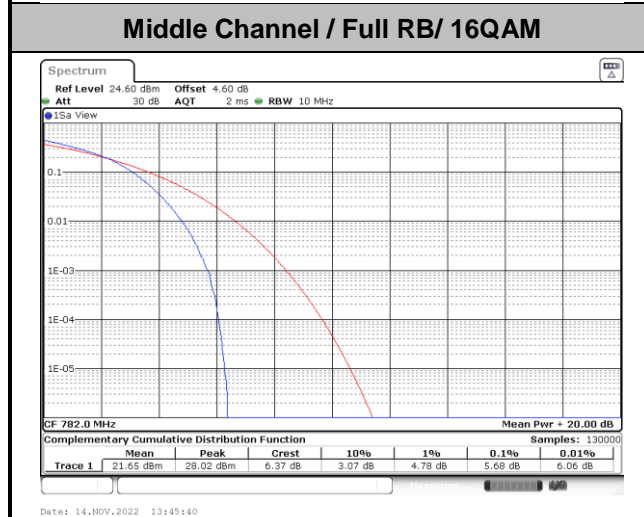
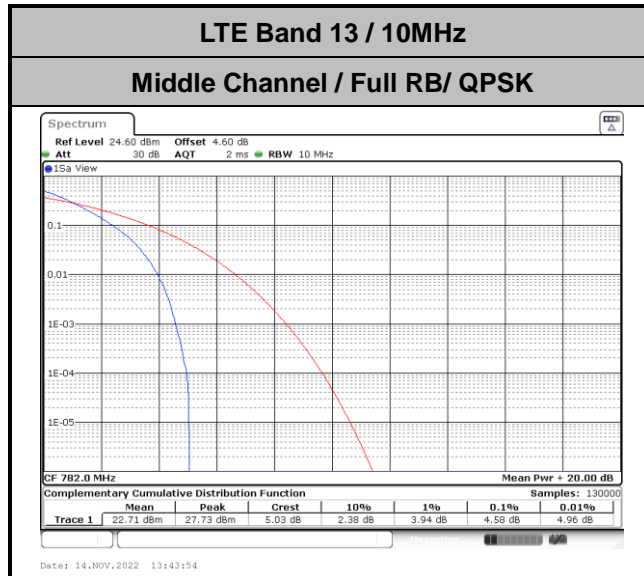
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

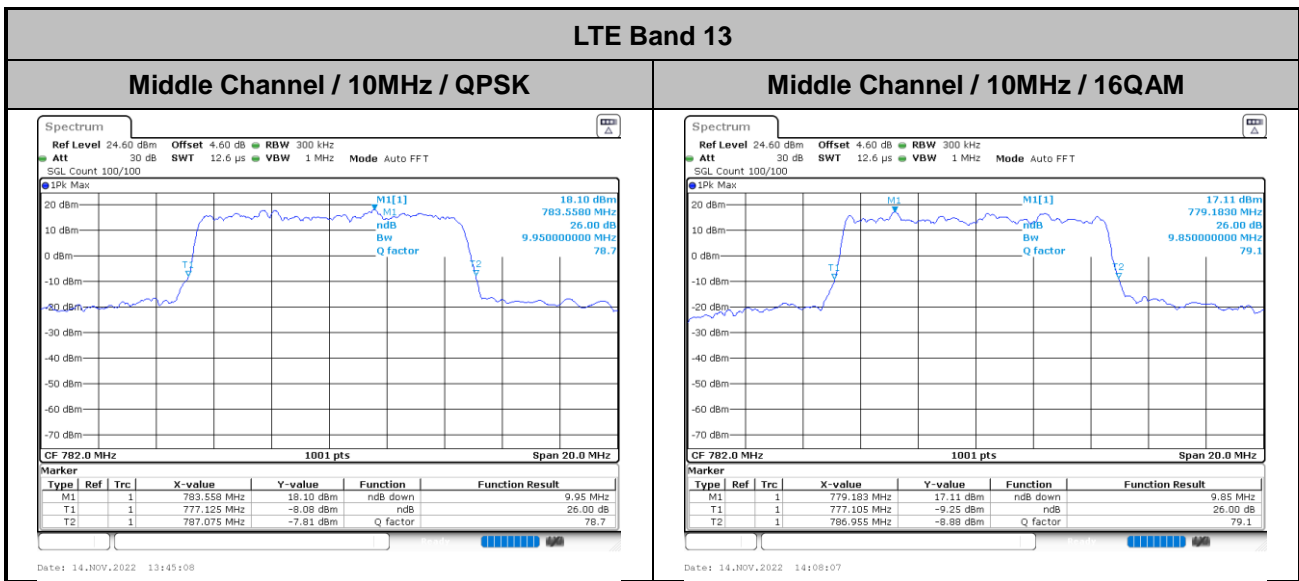
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.68	6.06	PASS





26dB Bandwidth

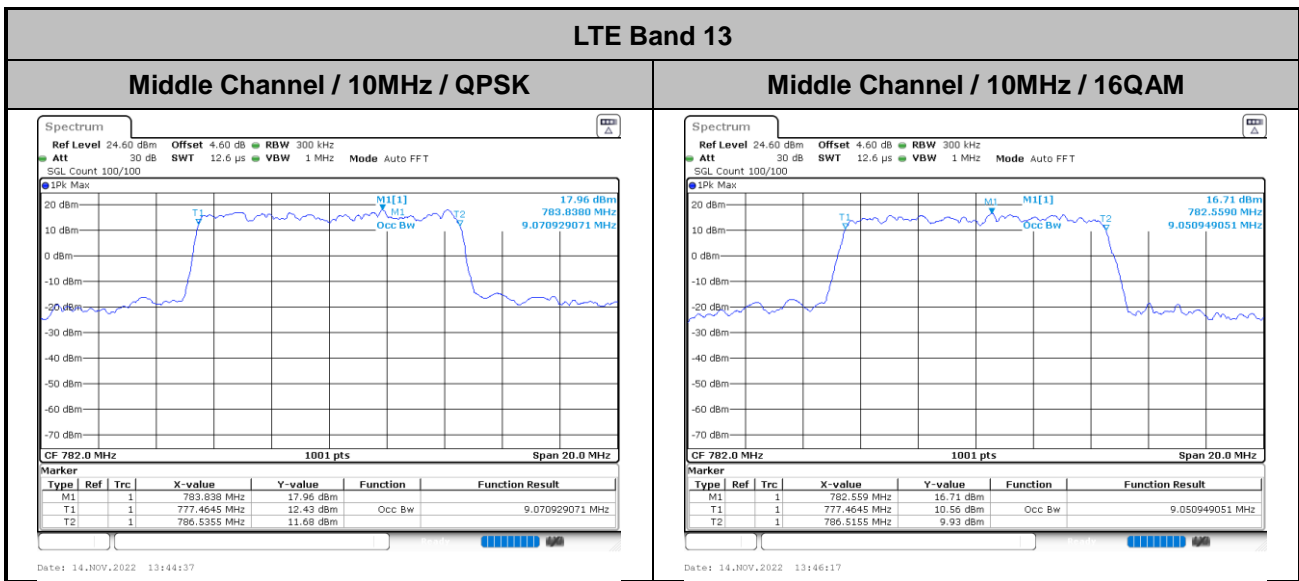
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.95	9.85





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.05

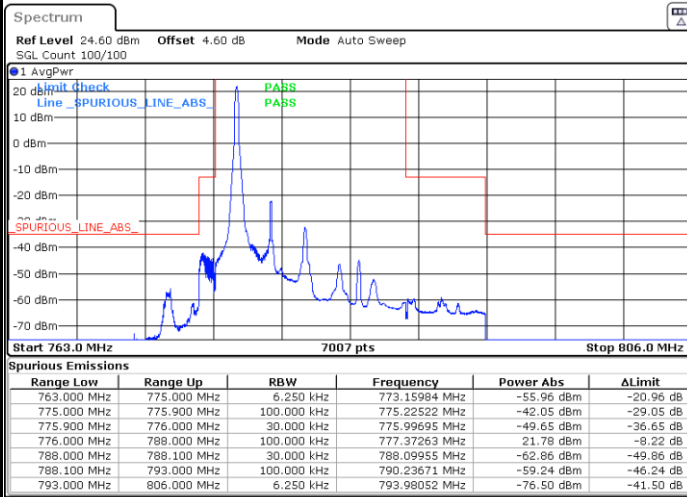




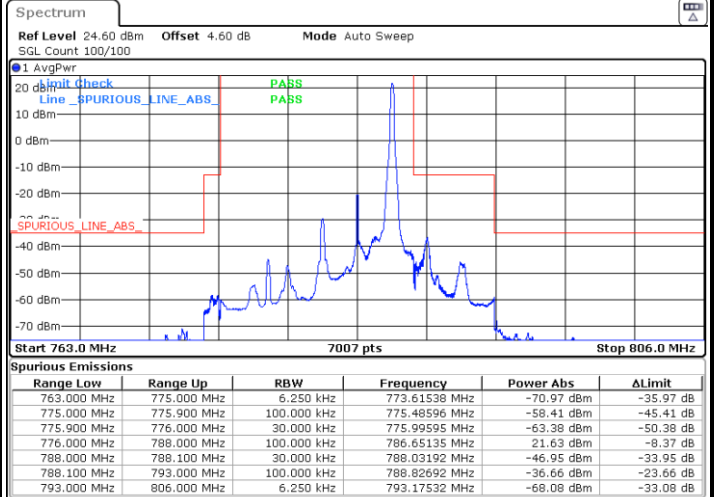
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

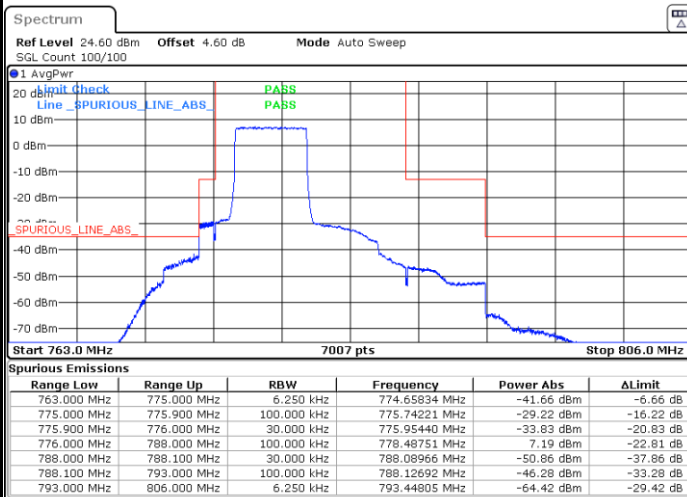
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

