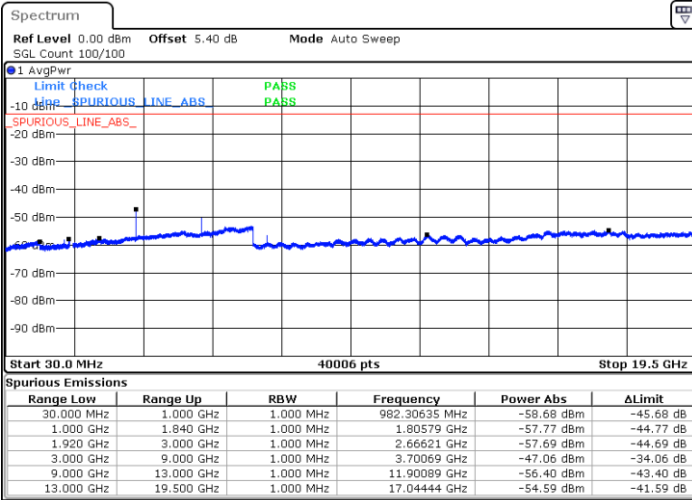




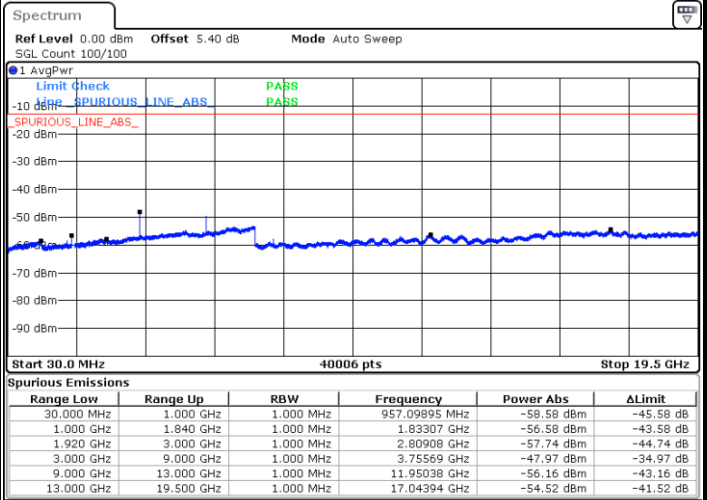
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

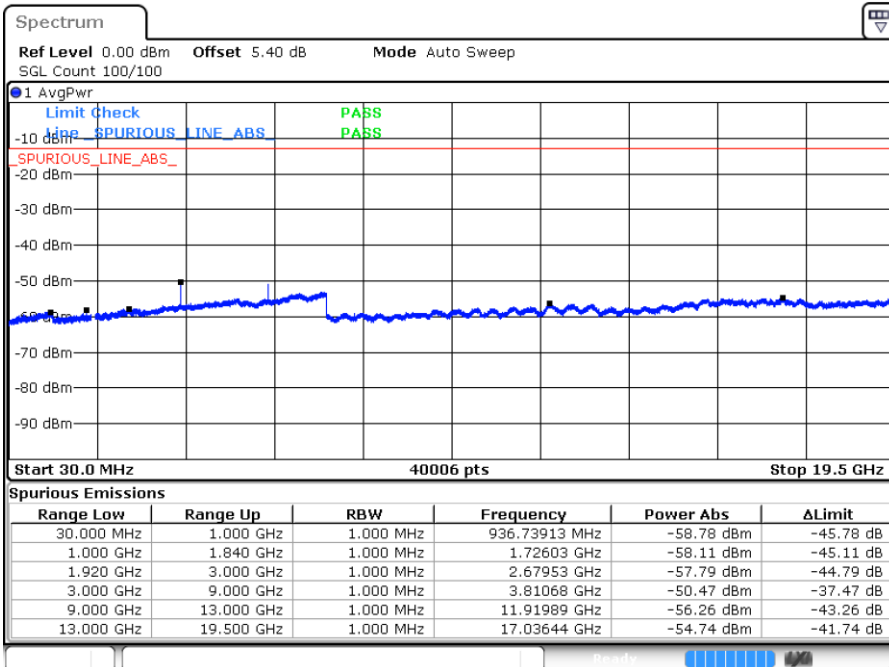


Date: 23.OCT.2022 23:49:07



Date: 24.OCT.2022 00:02:26

Highest Channel / QPSK



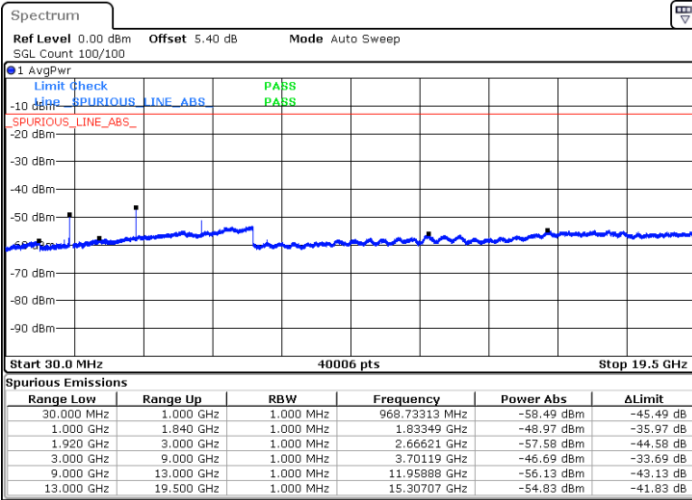
Date: 24.OCT.2022 00:03:46



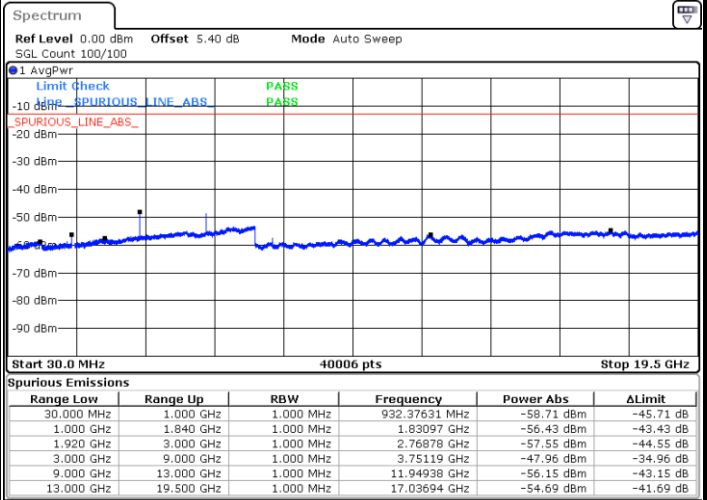
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

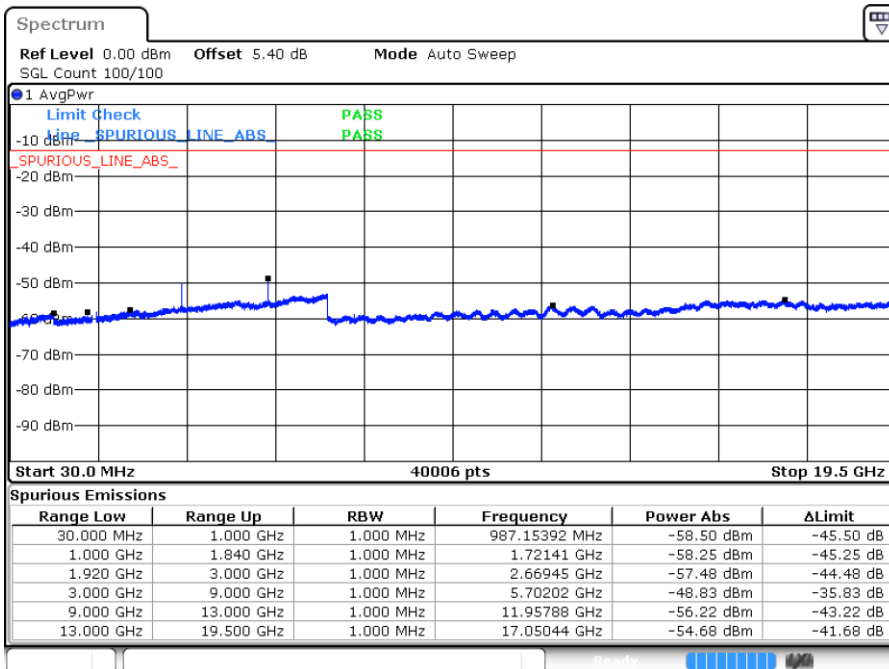


Date: 24.OCT.2022 00:17:06



Date: 24.OCT.2022 00:30:25

Highest Channel / QPSK



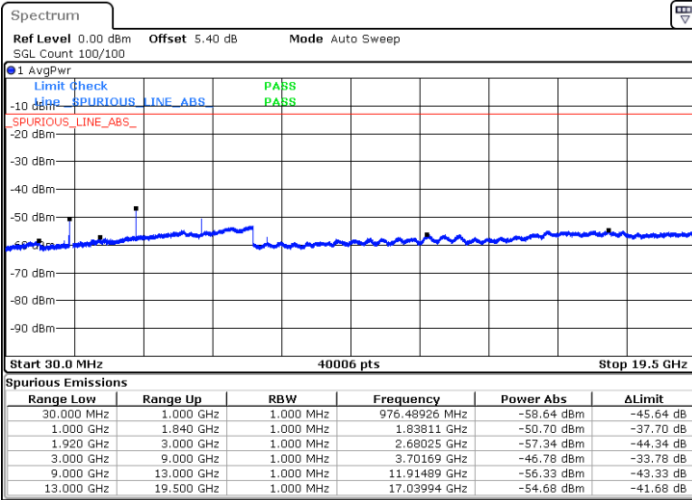
Date: 24.OCT.2022 00:31:46



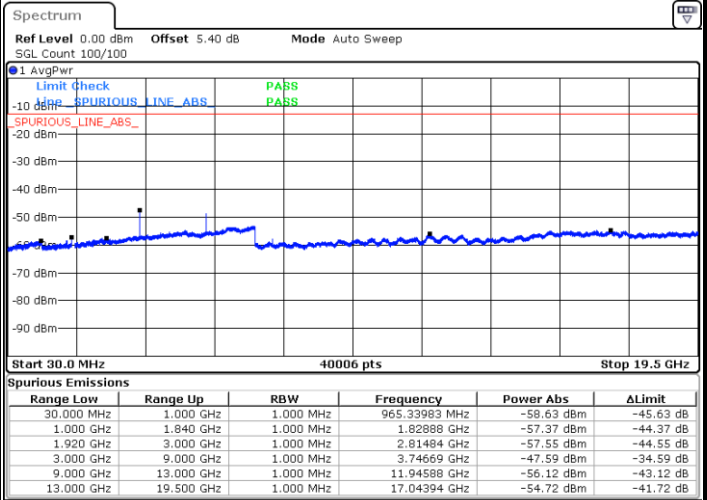
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

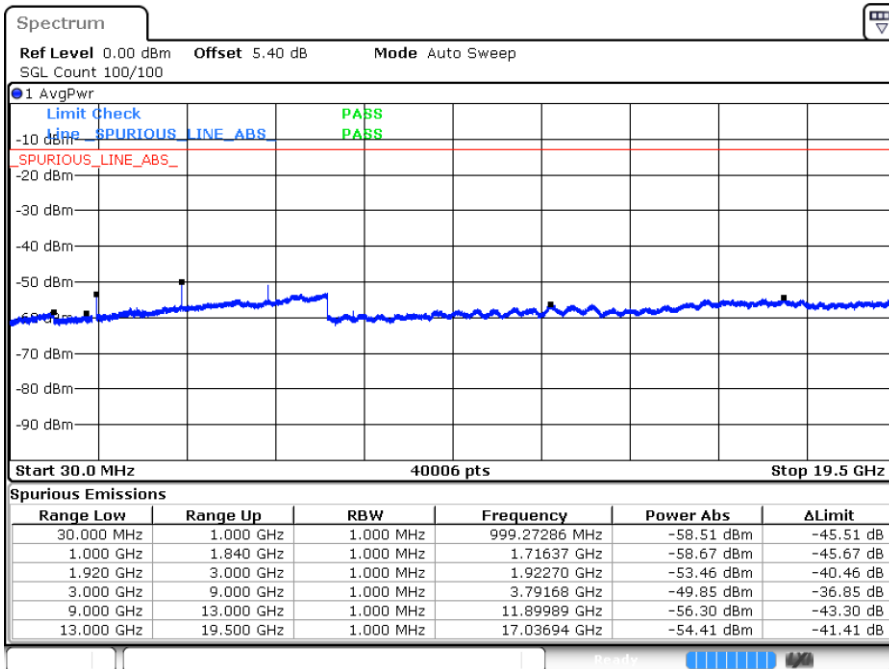


Date: 24.OCT.2022 00:45:06



Date: 24.OCT.2022 00:58:25

Highest Channel / QPSK



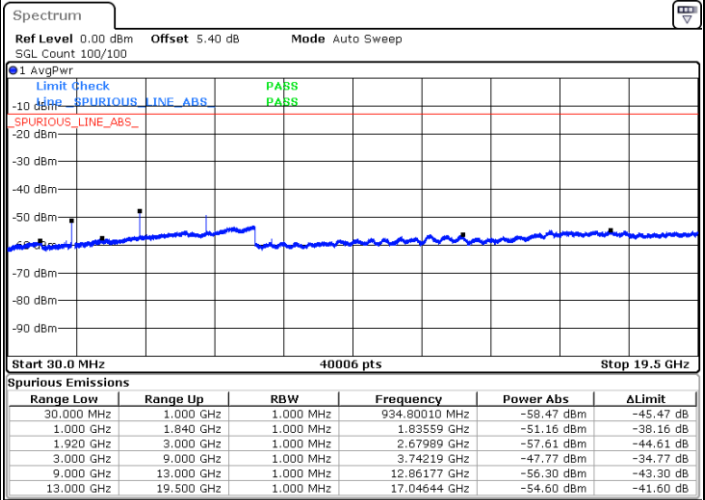
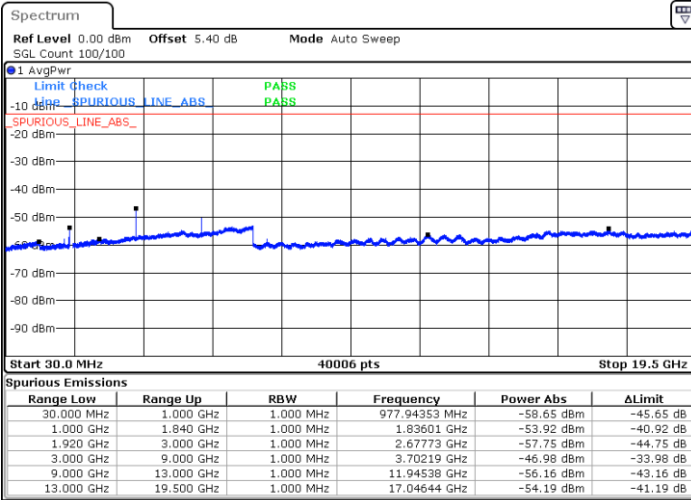
Date: 24.OCT.2022 00:59:45



LTE Band 2 / 20MHz

Lowest Channel / QPSK

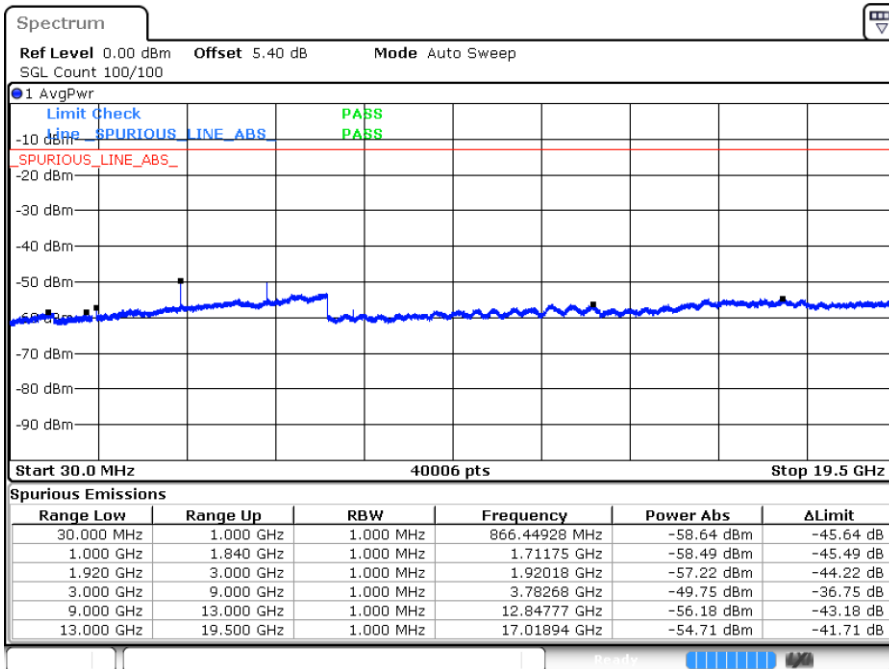
Middle Channel / QPSK



Date: 24.OCT.2022 01:13:05

Date: 24.OCT.2022 01:26:24

Highest Channel / QPSK



Date: 24.OCT.2022 01:27:44



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	0.0014	
20	Battery End Point	0.0003	

Note:

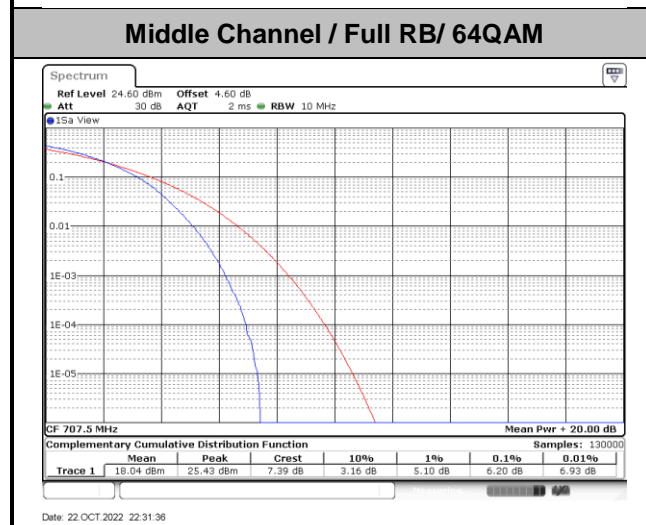
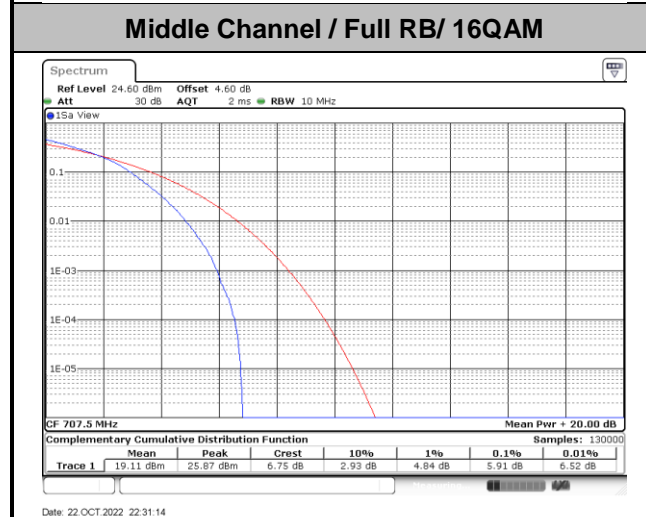
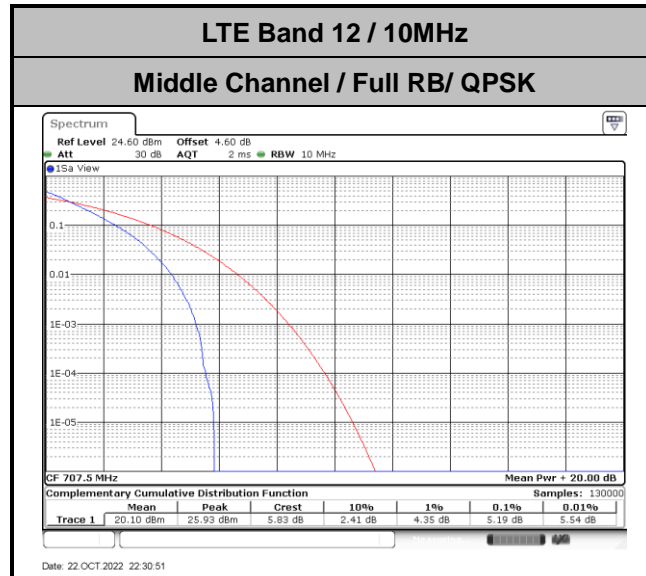
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

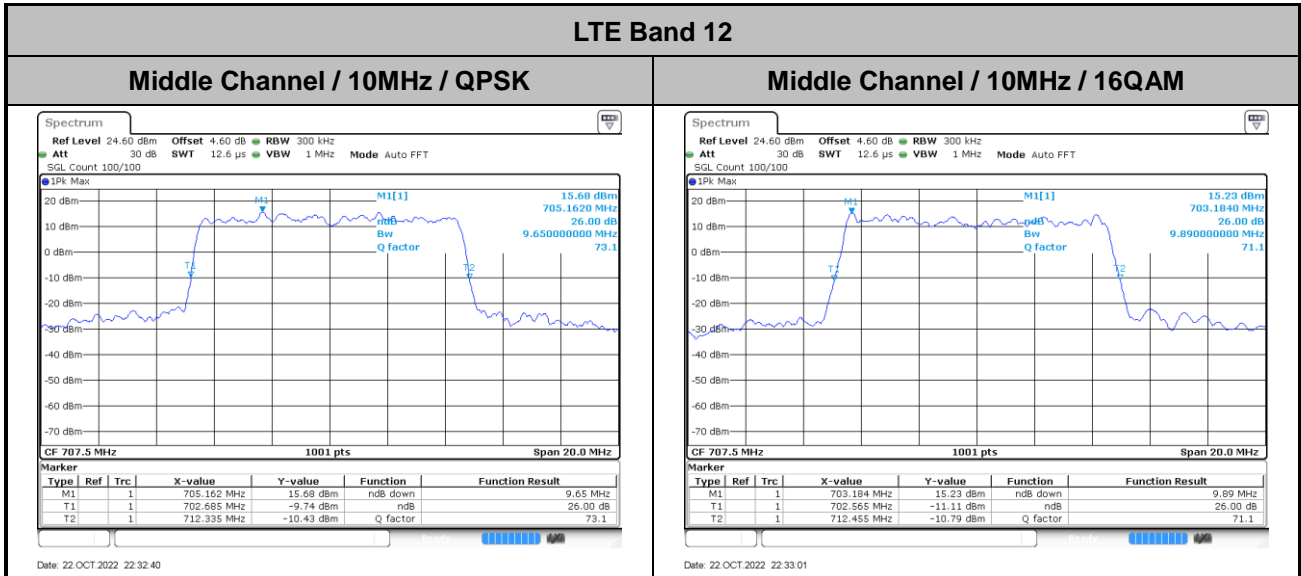
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.19	5.91	6.20	PASS





26dB Bandwidth

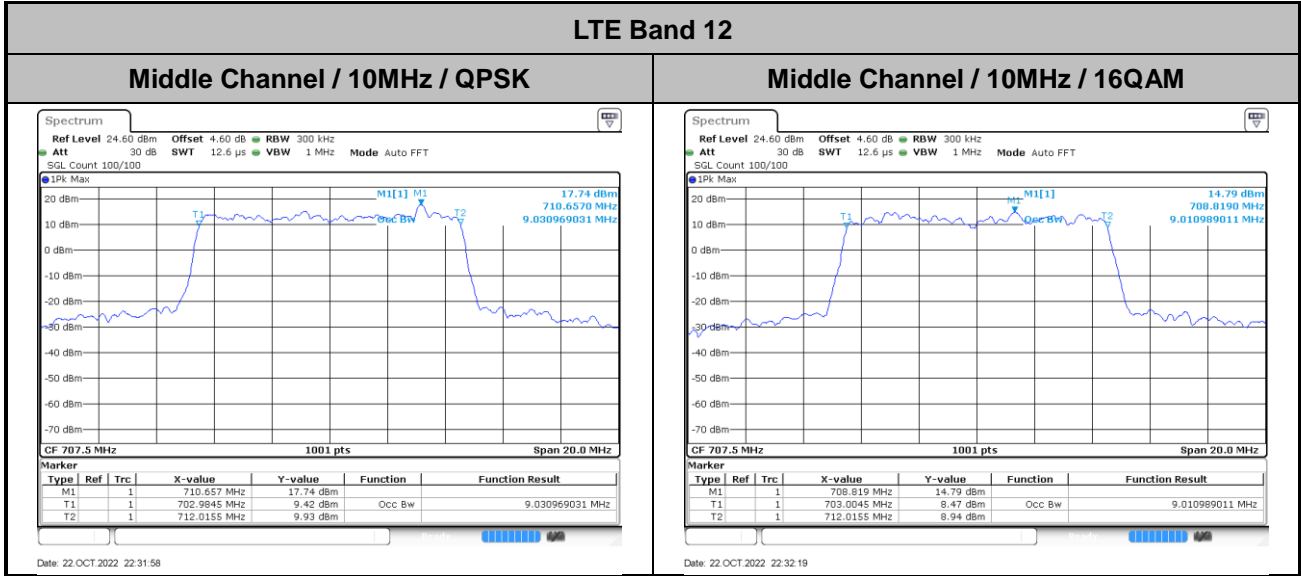
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.65	9.89





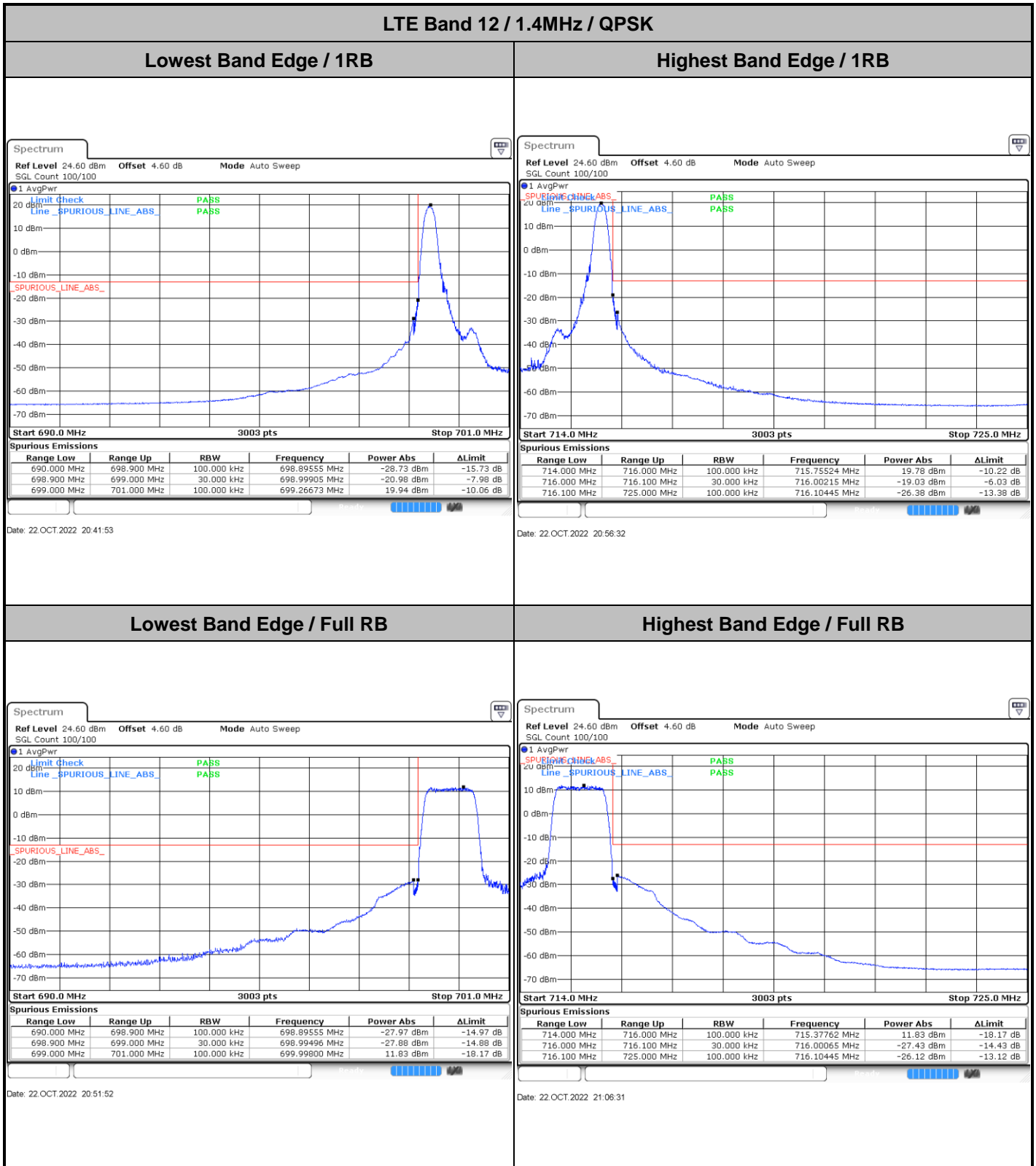
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.01





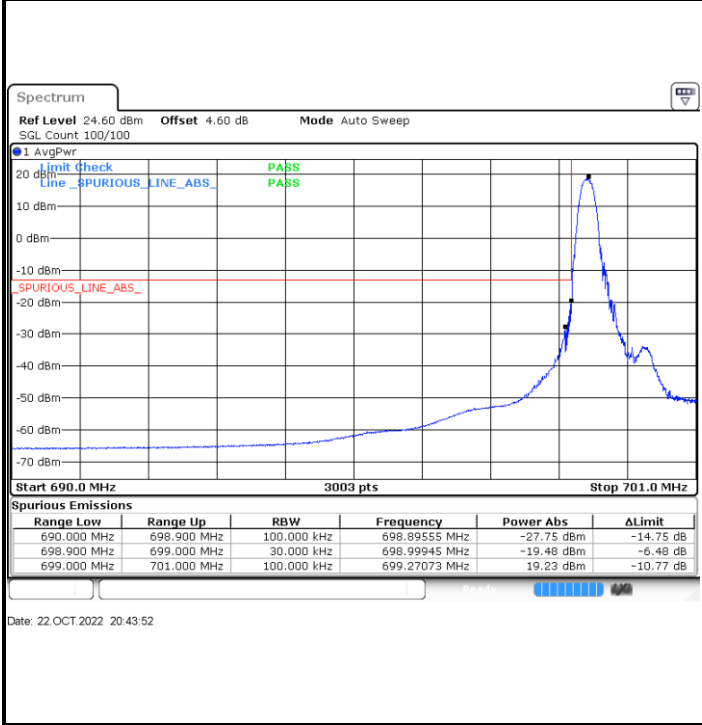
Conducted Band Edge



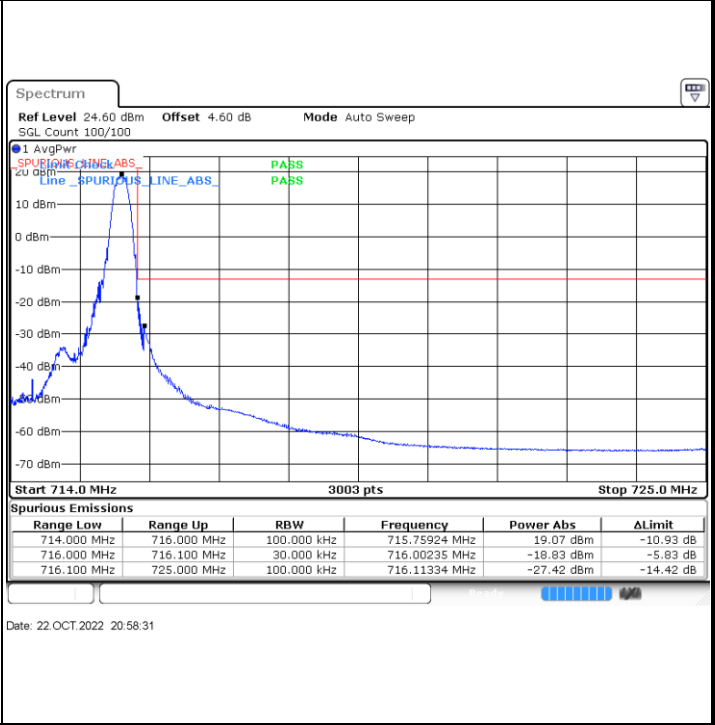


LTE Band 12 / 1.4MHz / 16QAM

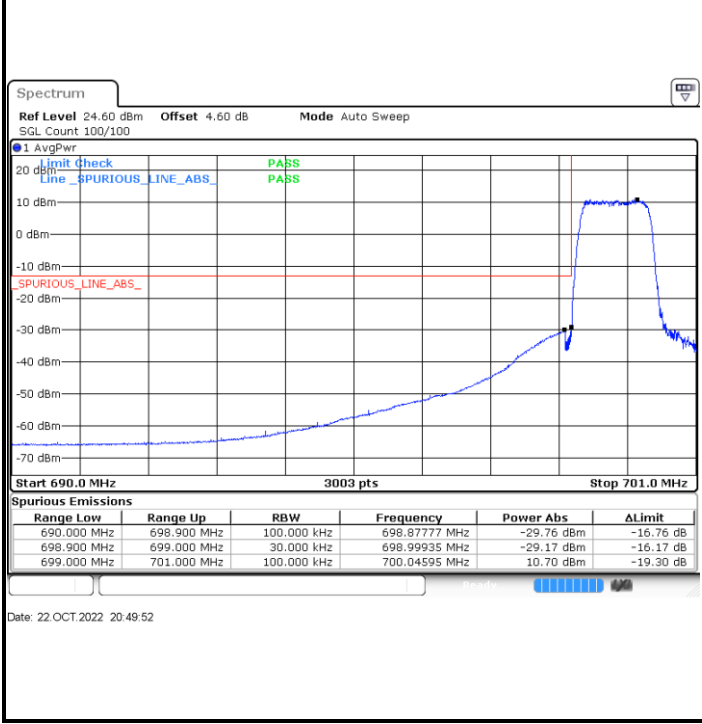
Lowest Band Edge / 1 RB



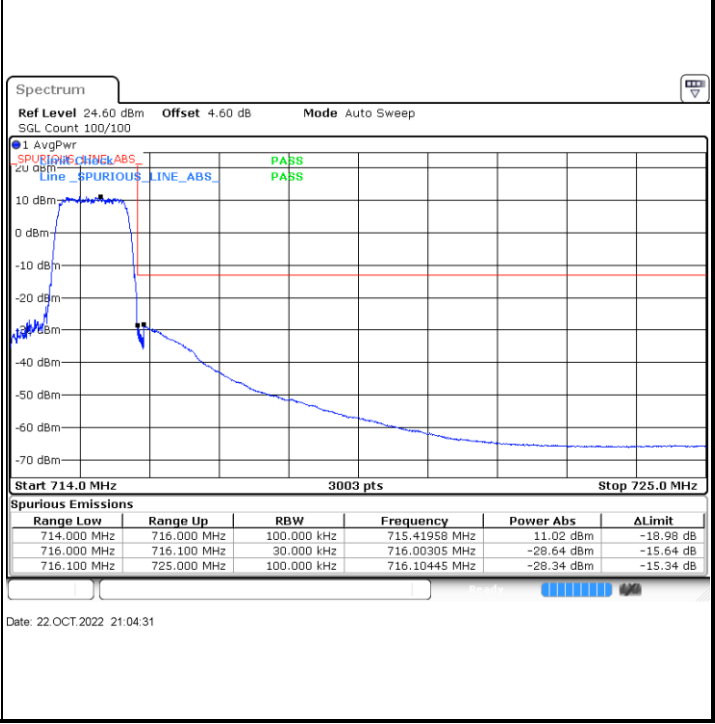
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



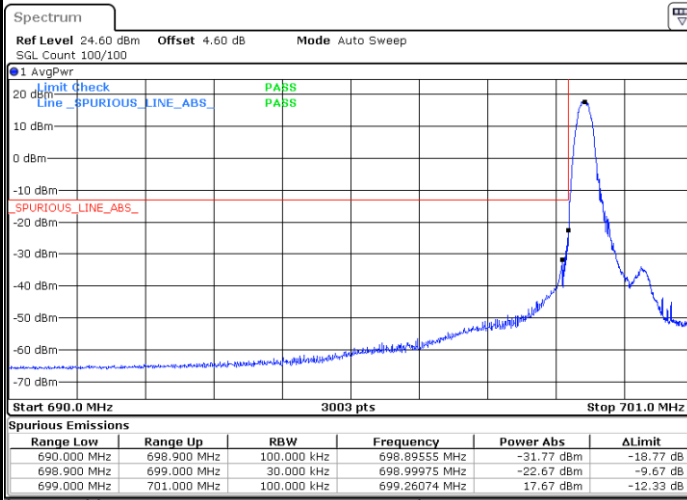
Highest Band Edge / Full RB





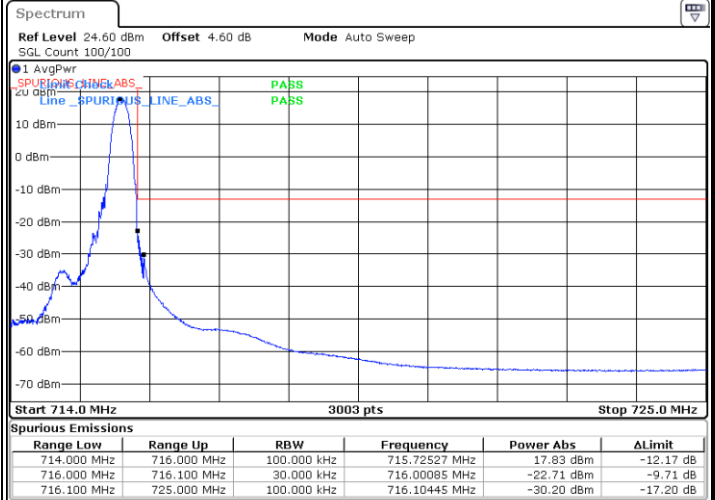
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



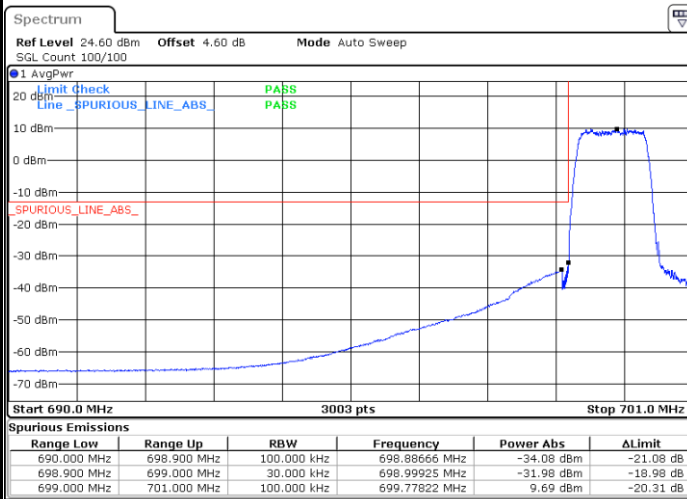
Date: 22.OCT.2022 20:45:52

Highest Band Edge / 1 RB



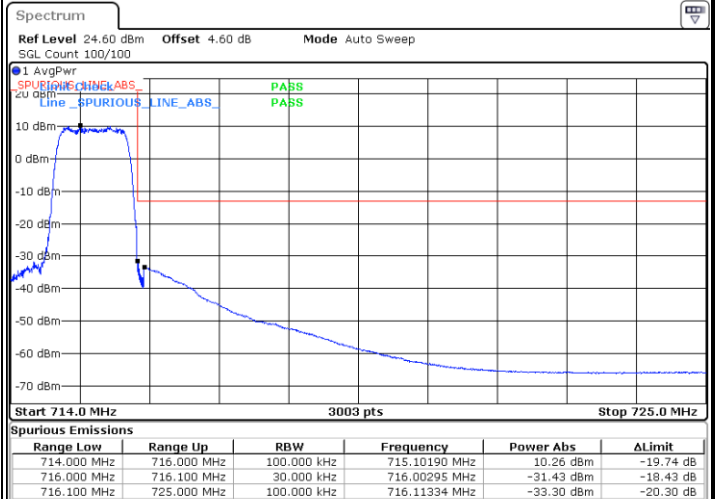
Date: 22.OCT.2022 21:00:31

Lowest Band Edge / Full RB



Date: 22.OCT.2022 20:47:52

Highest Band Edge / Full RB

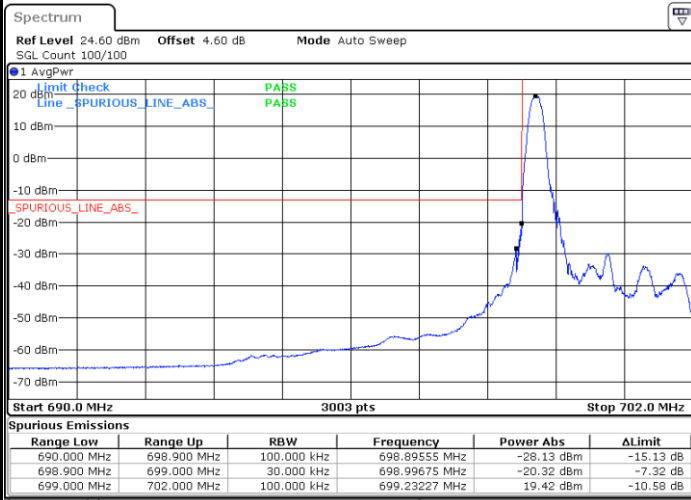


Date: 22.OCT.2022 21:02:31



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



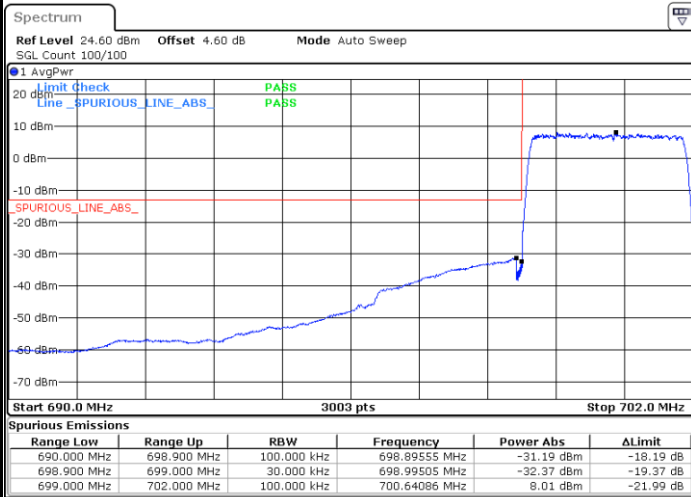
Date: 22.OCT.2022 21:09:51

Highest Band Edge / 1 RB



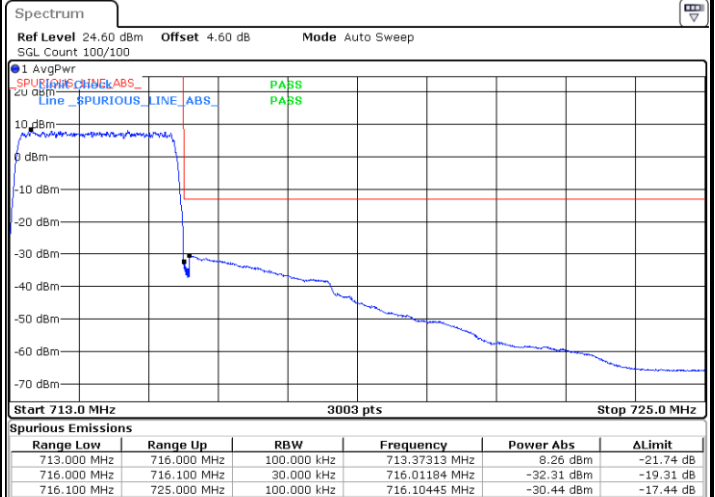
Date: 22.OCT.2022 21:24:30

Lowest Band Edge / Full RB



Date: 22.OCT.2022 21:19:50

Highest Band Edge / Full RB

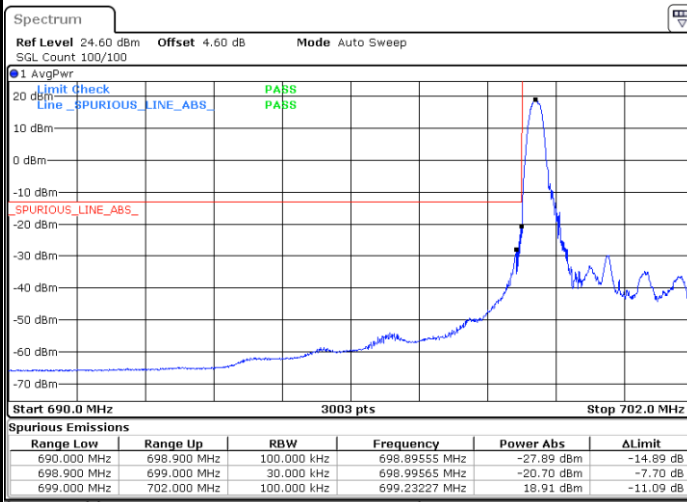


Date: 22.OCT.2022 21:34:29



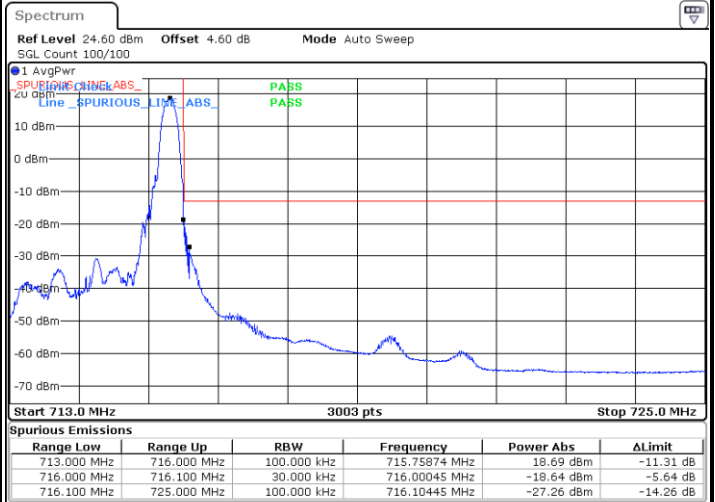
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



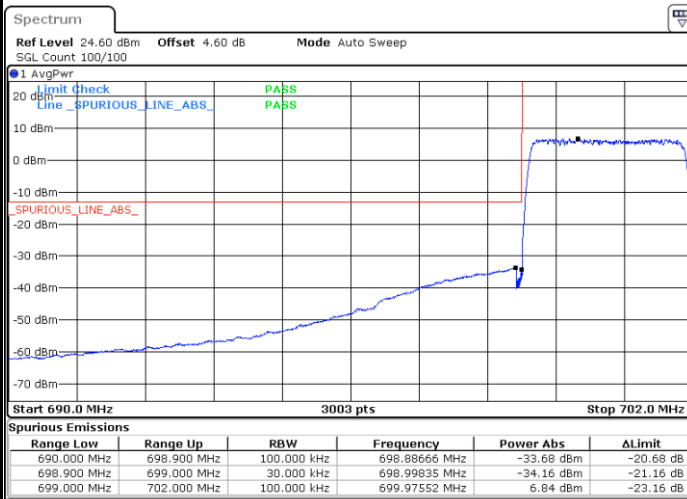
Date: 22.OCT.2022 21:11:51

Highest Band Edge / 1 RB



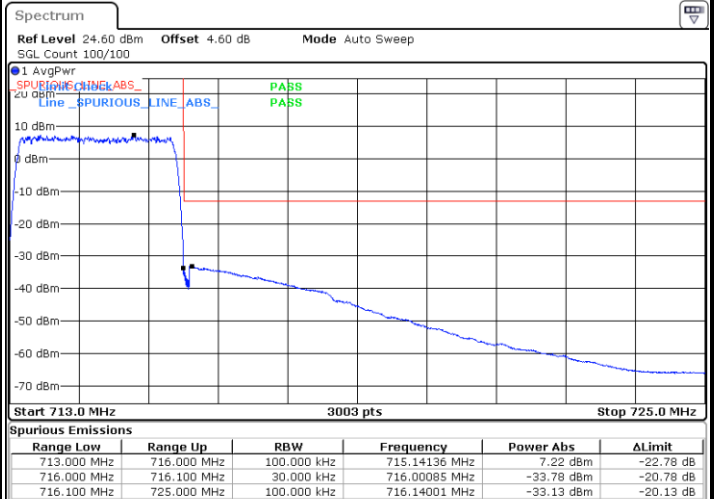
Date: 22.OCT.2022 21:26:30

Lowest Band Edge / Full RB



Date: 22.OCT.2022 21:17:50

Highest Band Edge / Full RB

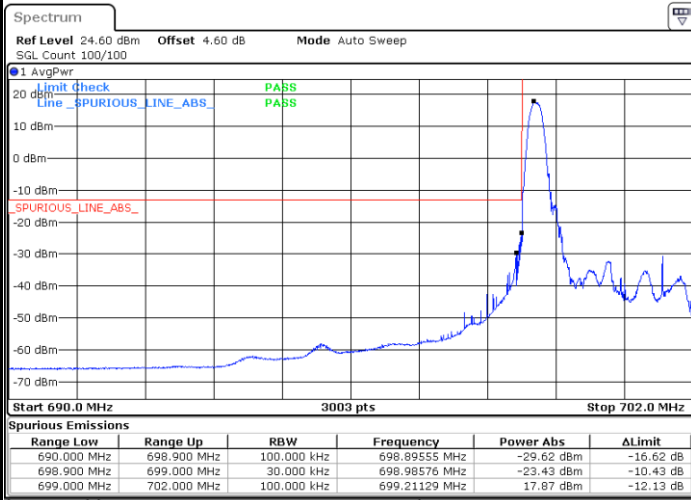


Date: 22.OCT.2022 21:32:29



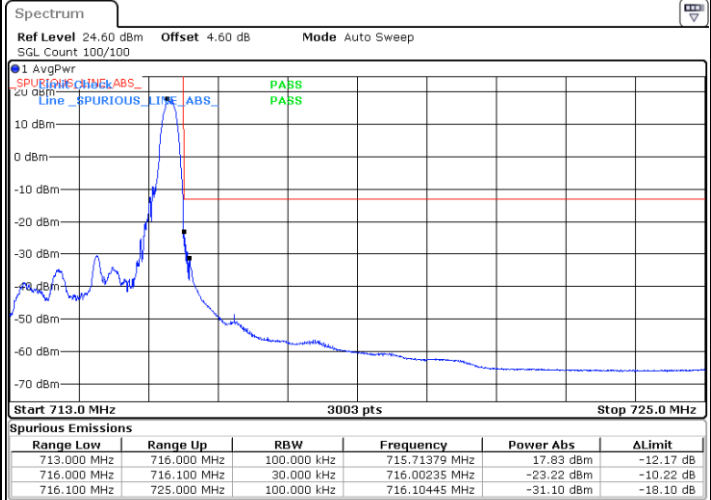
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



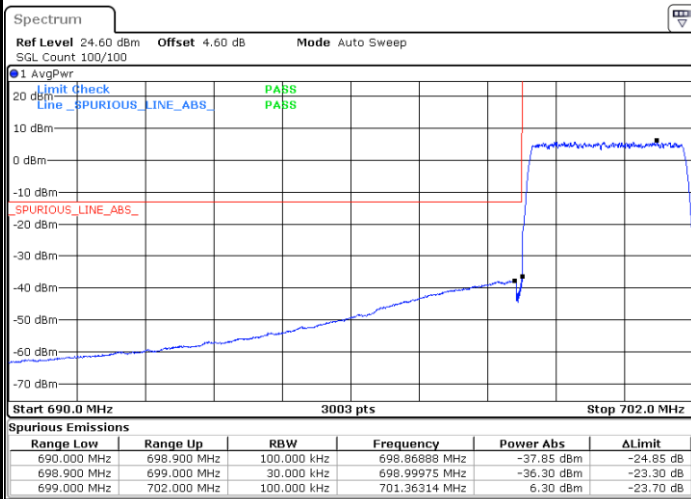
Date: 22.OCT.2022 21:13:51

Highest Band Edge / 1 RB



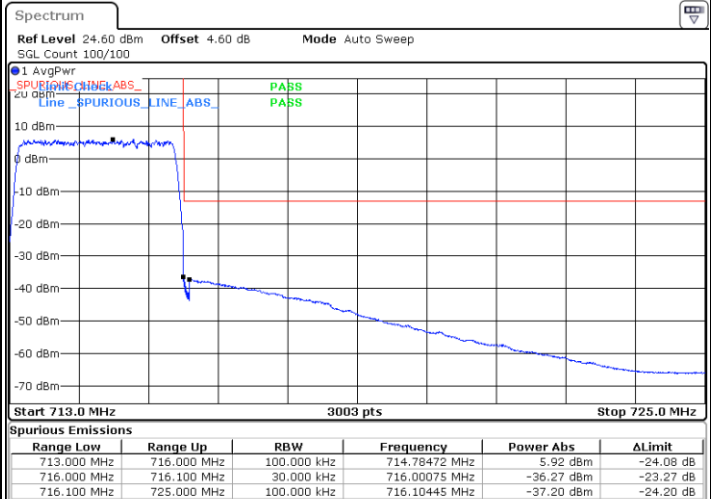
Date: 22.OCT.2022 21:28:29

Lowest Band Edge / Full RB



Date: 22.OCT.2022 21:15:51

Highest Band Edge / Full RB

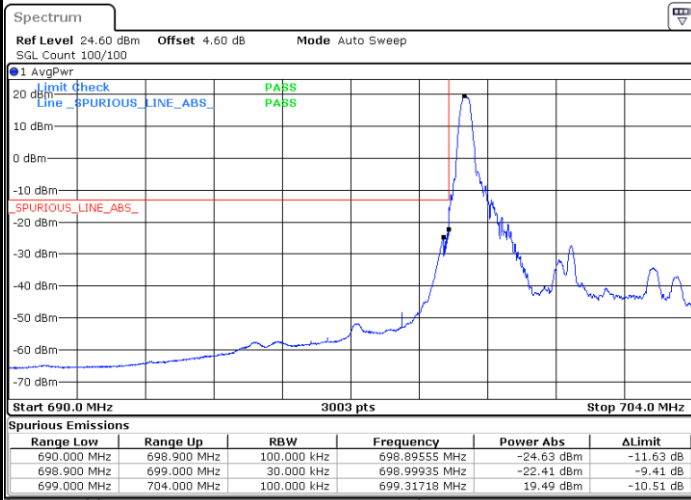


Date: 22.OCT.2022 21:30:29



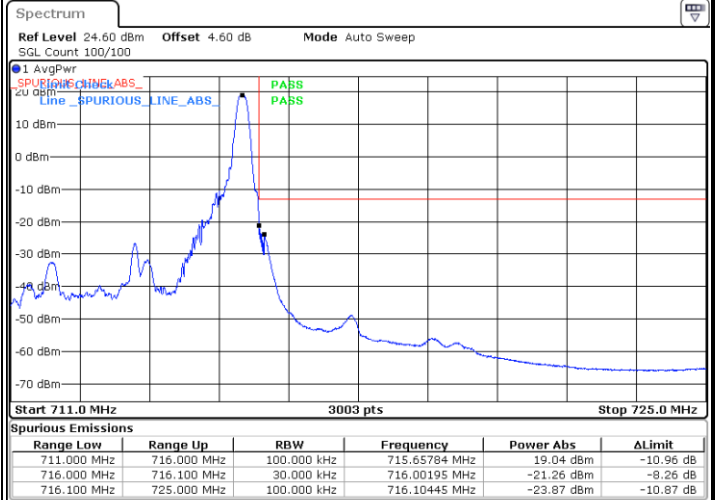
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



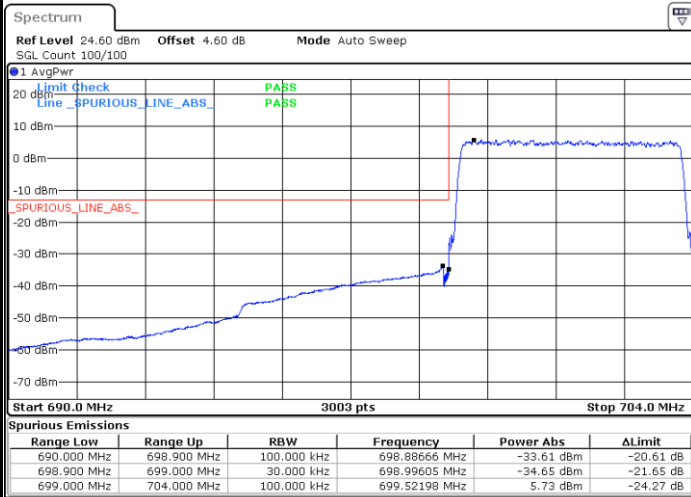
Date: 22.OCT.2022 21:37:49

Highest Band Edge / 1 RB



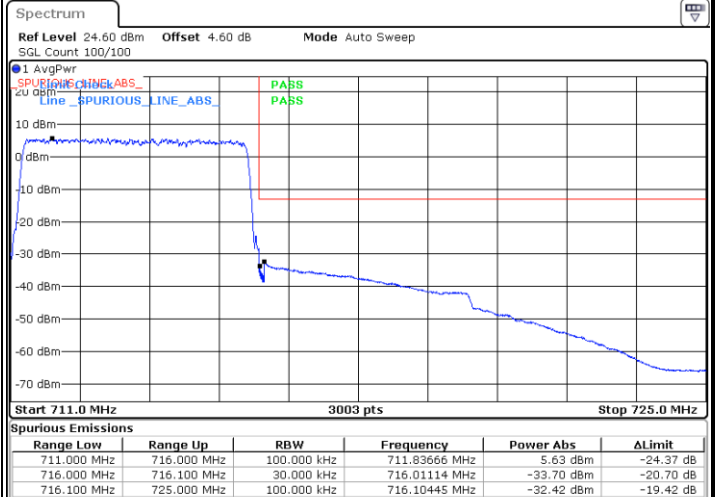
Date: 22.OCT.2022 21:52:28

Lowest Band Edge / Full RB



Date: 22.OCT.2022 21:47:48

Highest Band Edge / Full RB

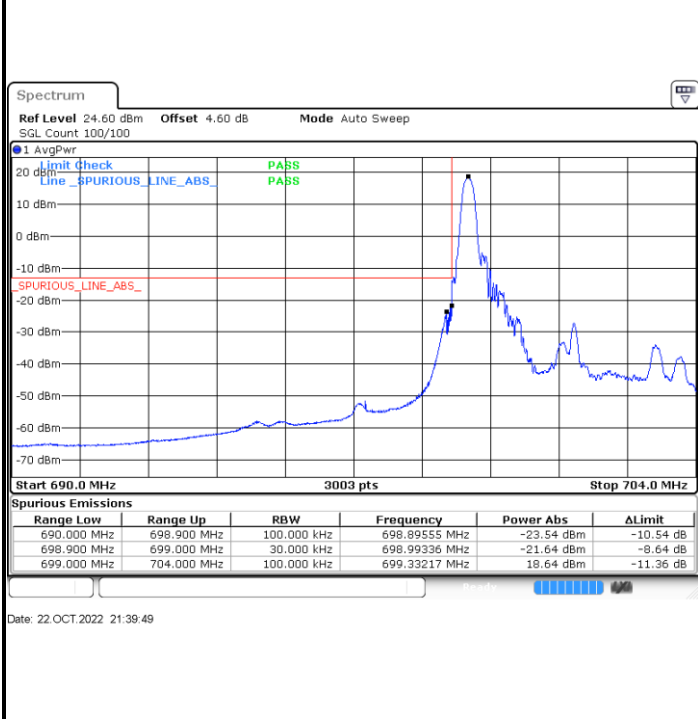


Date: 22.OCT.2022 22:02:27

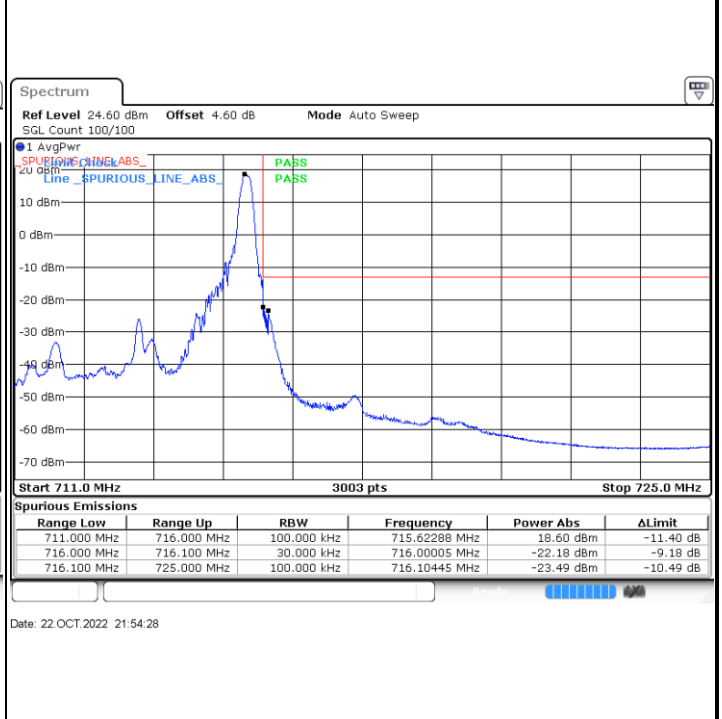


LTE Band 12 / 5MHz / 16QAM

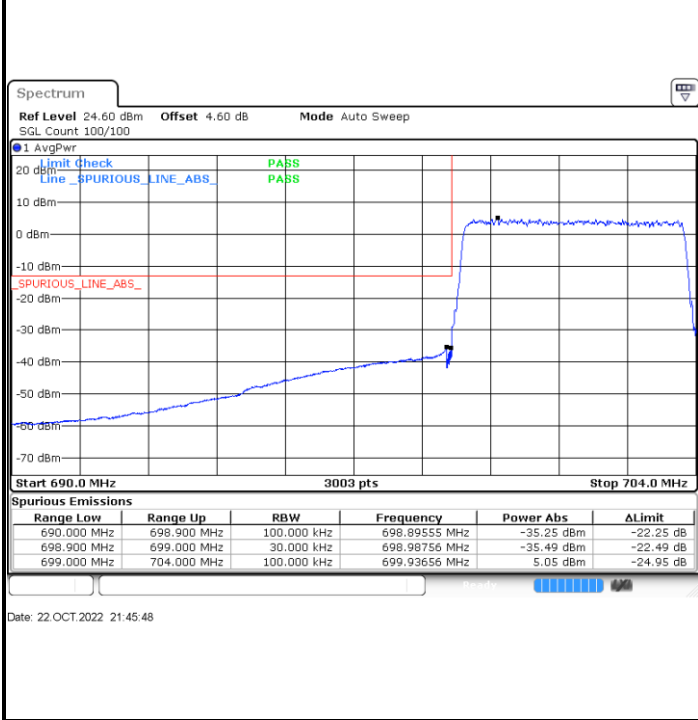
Lowest Band Edge / 1RB



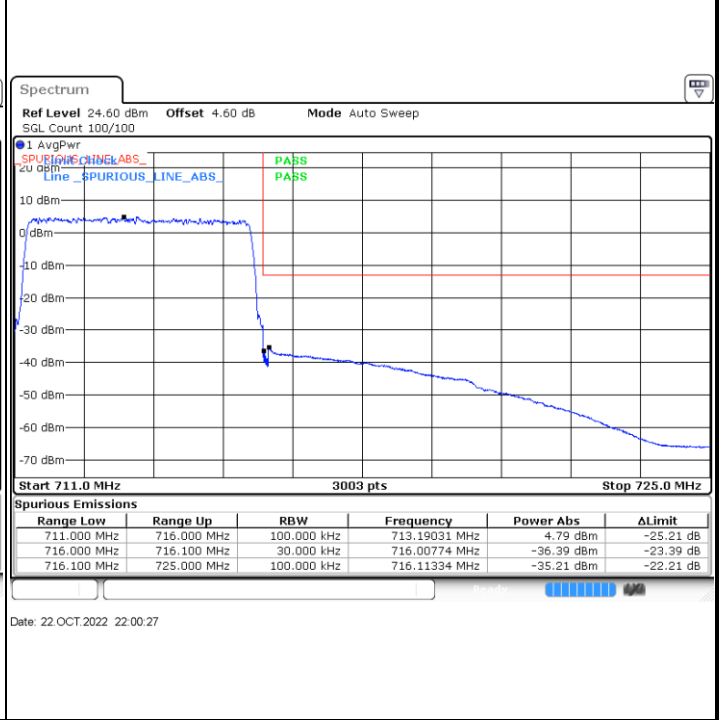
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



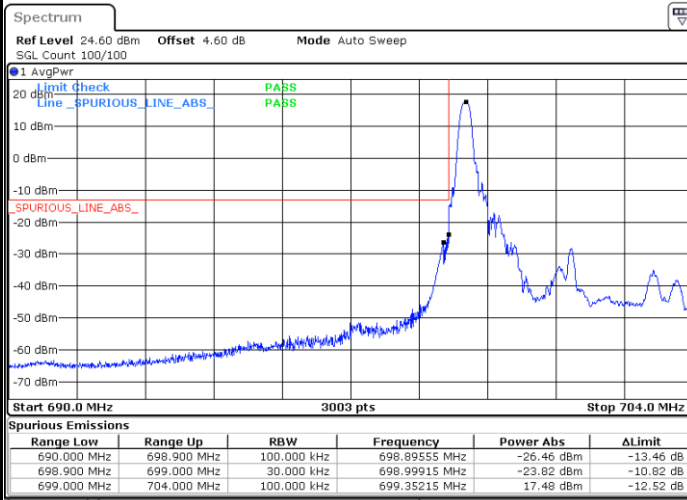
Highest Band Edge / Full RB





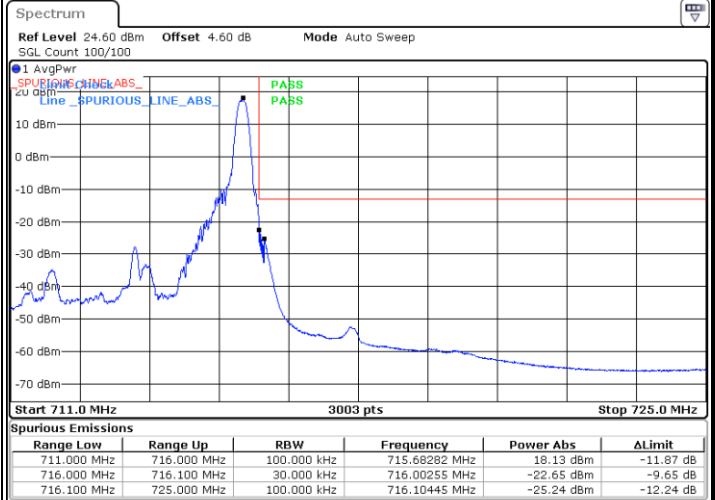
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



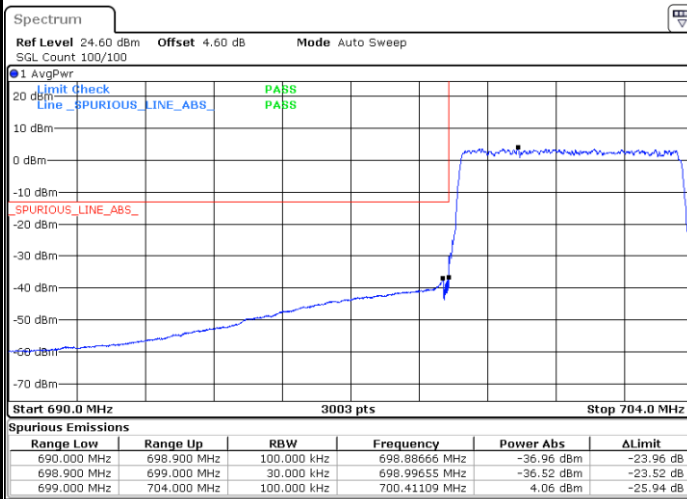
Date: 22.OCT.2022 21:41:49

Highest Band Edge / 1 RB



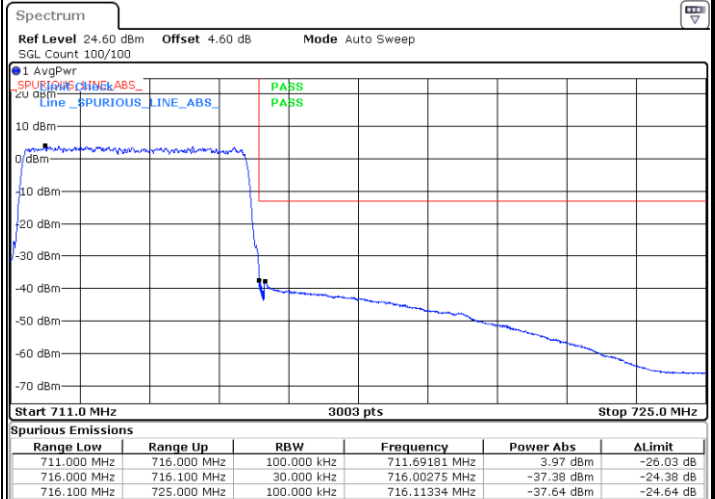
Date: 22.OCT.2022 21:56:28

Lowest Band Edge / Full RB



Date: 22.OCT.2022 21:43:49

Highest Band Edge / Full RB

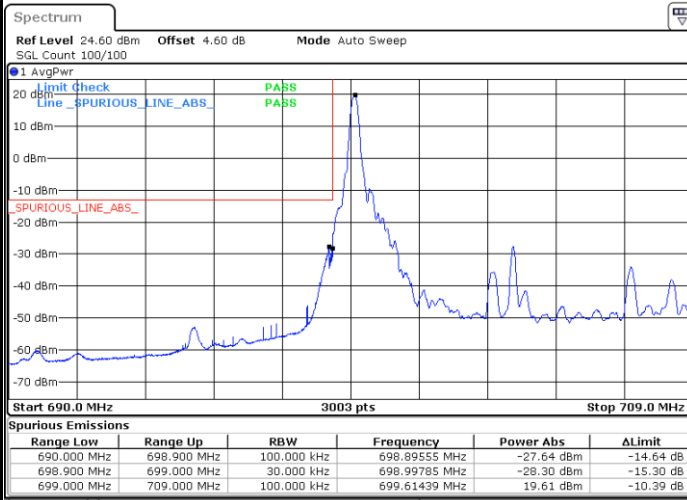


Date: 22.OCT.2022 21:58:28



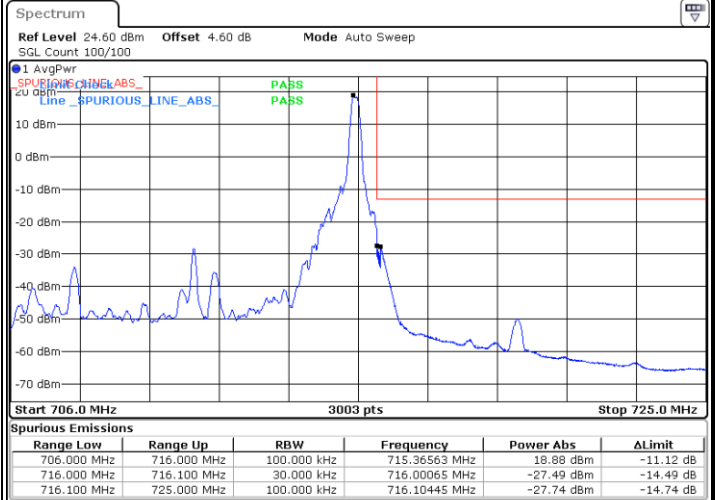
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



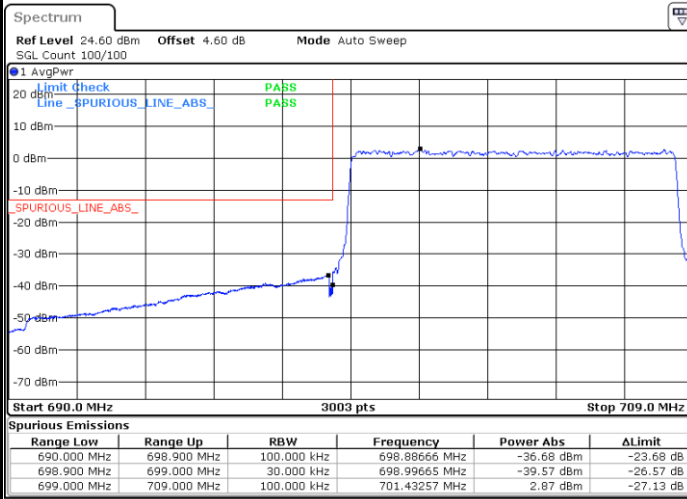
Date: 22.OCT.2022 22:05:48

Highest Band Edge / 1 RB



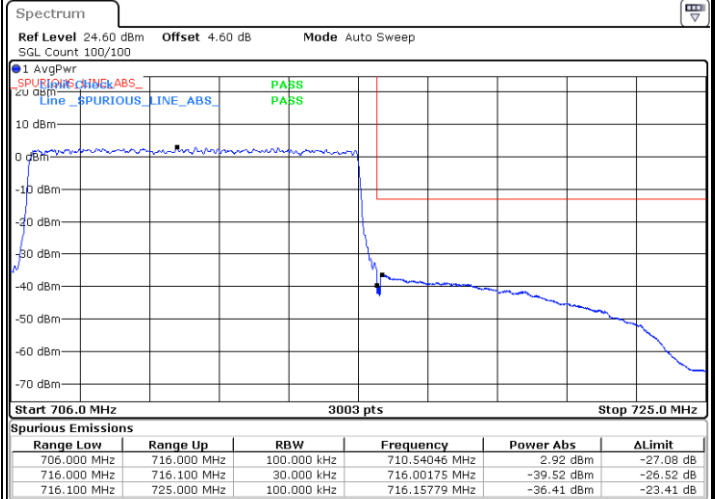
Date: 22.OCT.2022 22:20:27

Lowest Band Edge / Full RB



Date: 22.OCT.2022 22:15:47

Highest Band Edge / Full RB

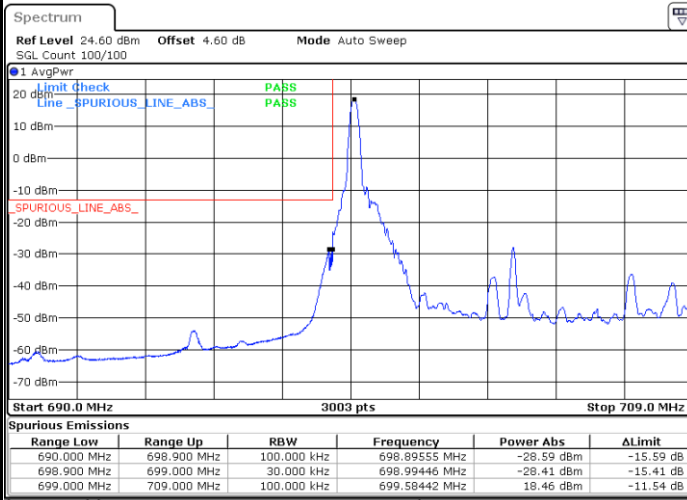


Date: 22.OCT.2022 22:30:29



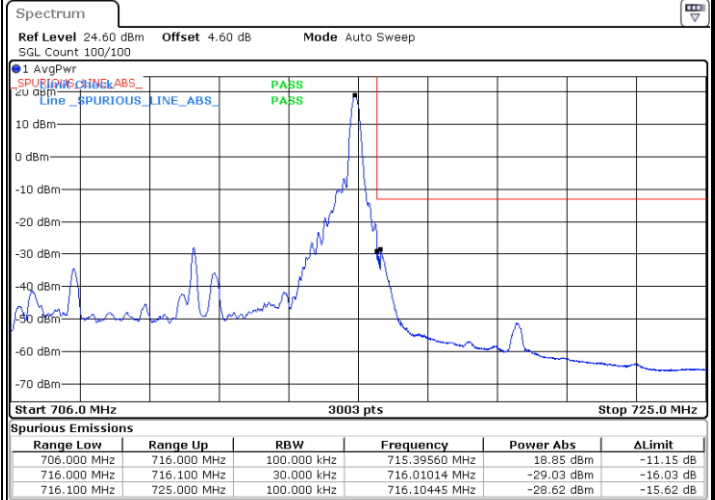
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



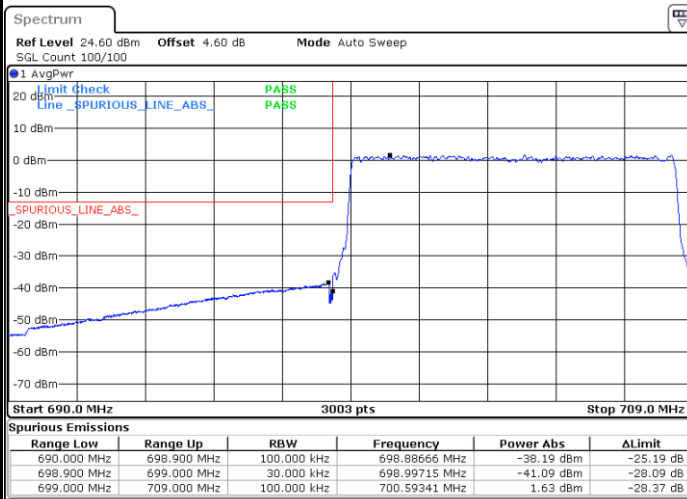
Date: 22.OCT.2022 22:07:48

Highest Band Edge / 1 RB



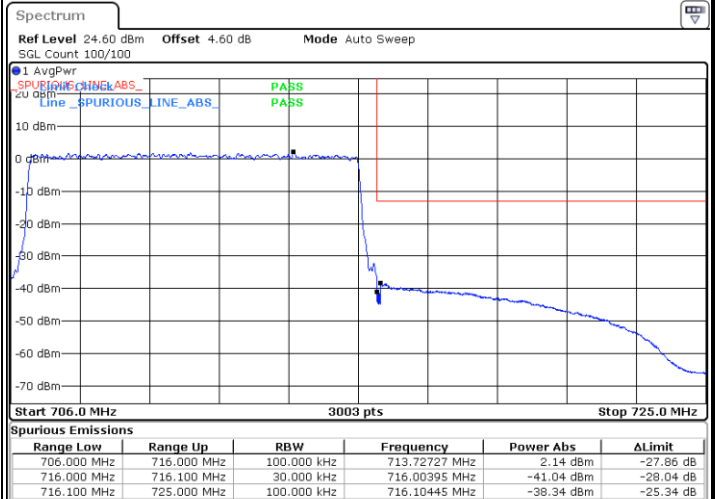
Date: 22.OCT.2022 22:22:27

Lowest Band Edge / Full RB



Date: 22.OCT.2022 22:13:47

Highest Band Edge / Full RB

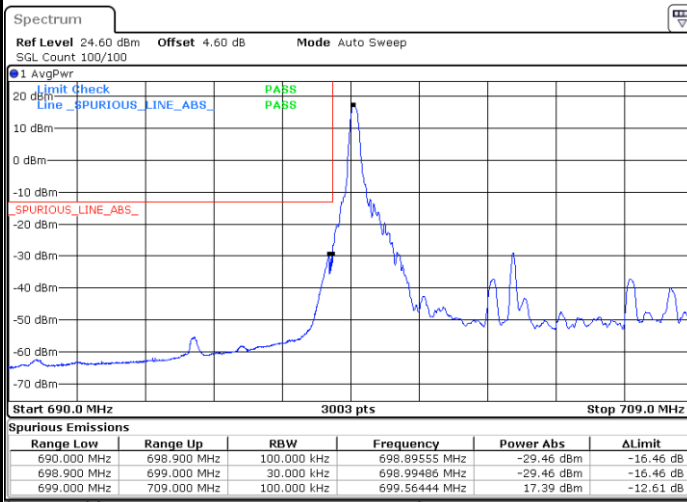


Date: 22.OCT.2022 22:28:29



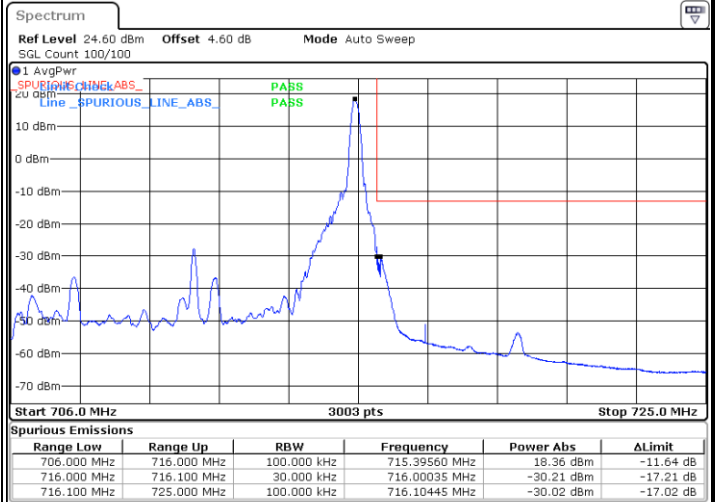
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



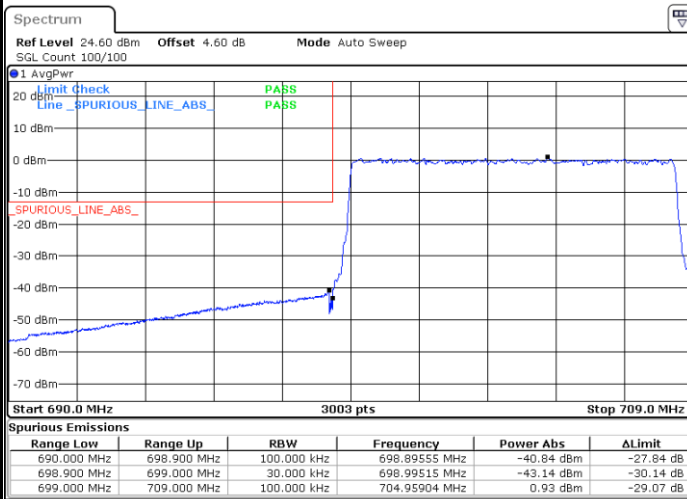
Date: 22.OCT.2022 22:09:48

Highest Band Edge / 1 RB



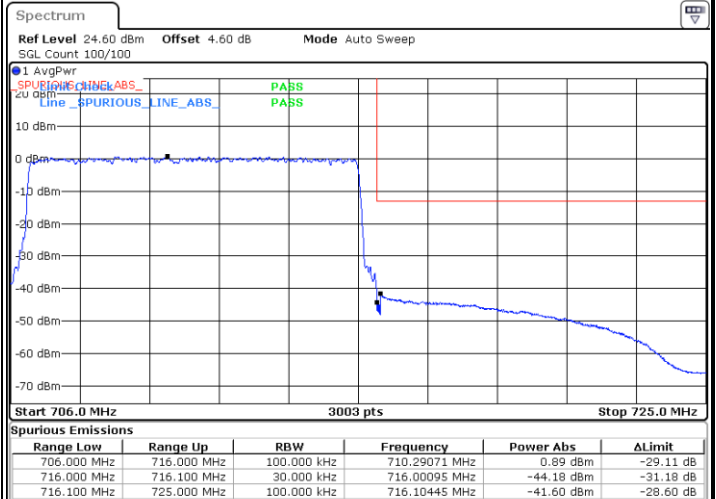
Date: 22.OCT.2022 22:24:26

Lowest Band Edge / Full RB



Date: 22.OCT.2022 22:11:47

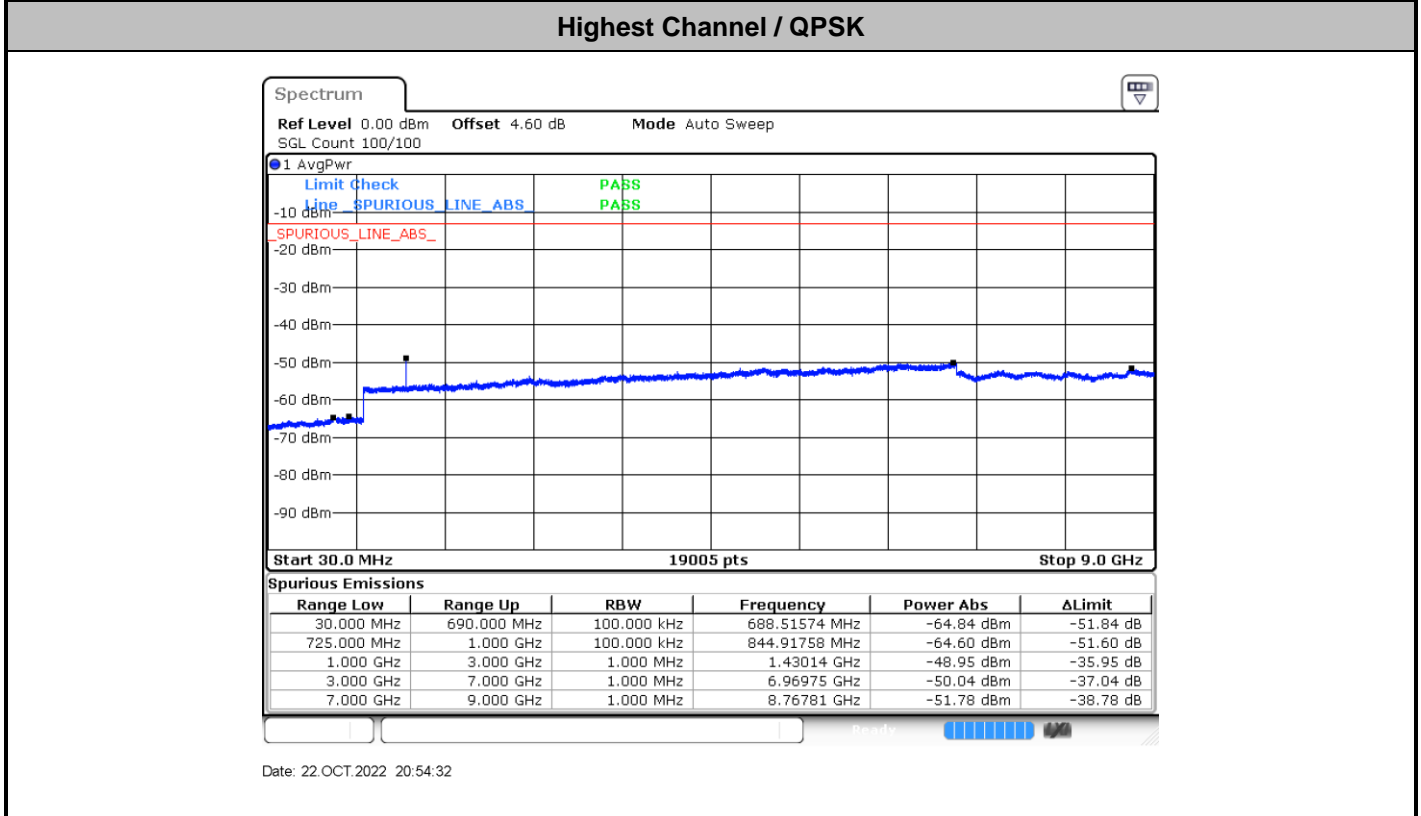
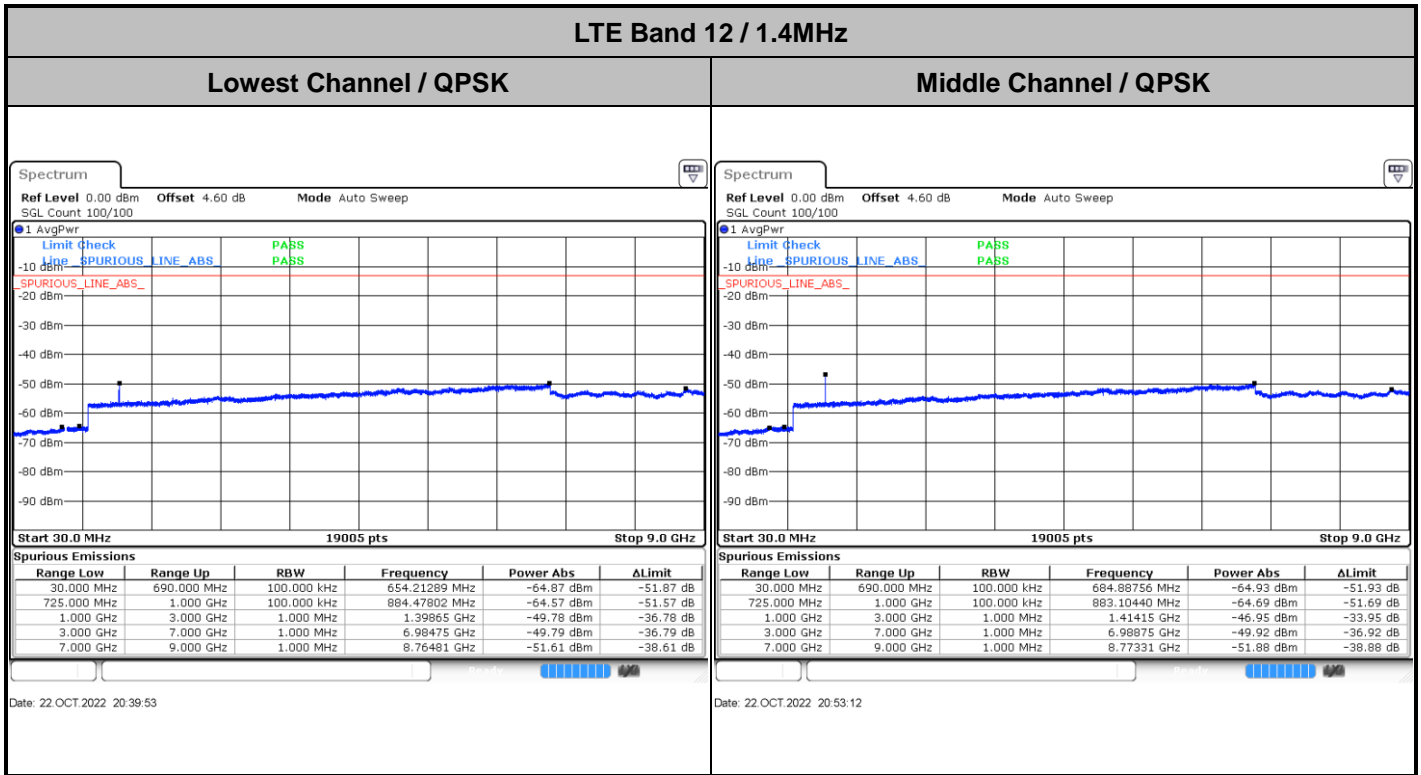
Highest Band Edge / Full RB



Date: 22.OCT.2022 22:26:26



Conducted Spurious Emission

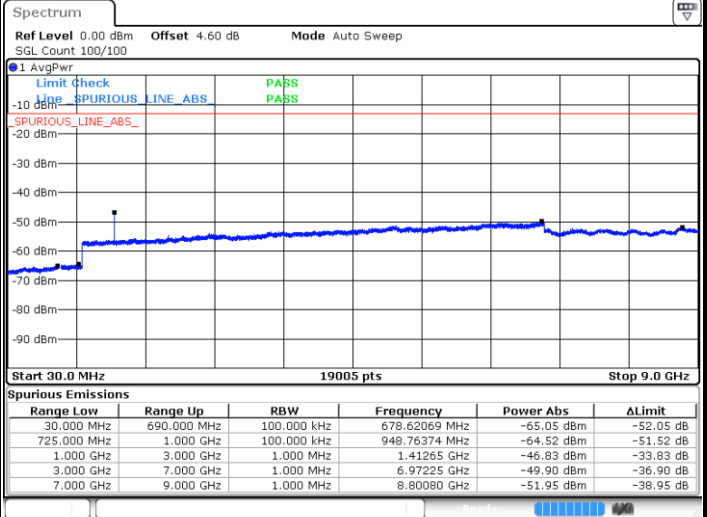
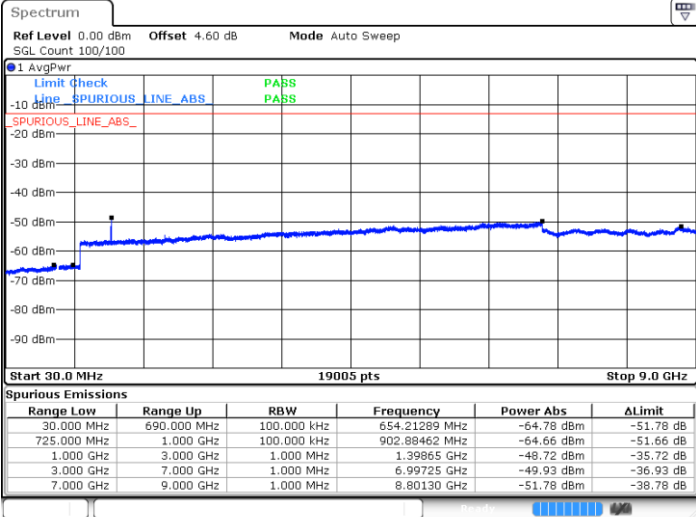




LTE Band 12 / 3MHz

Lowest Channel / QPSK

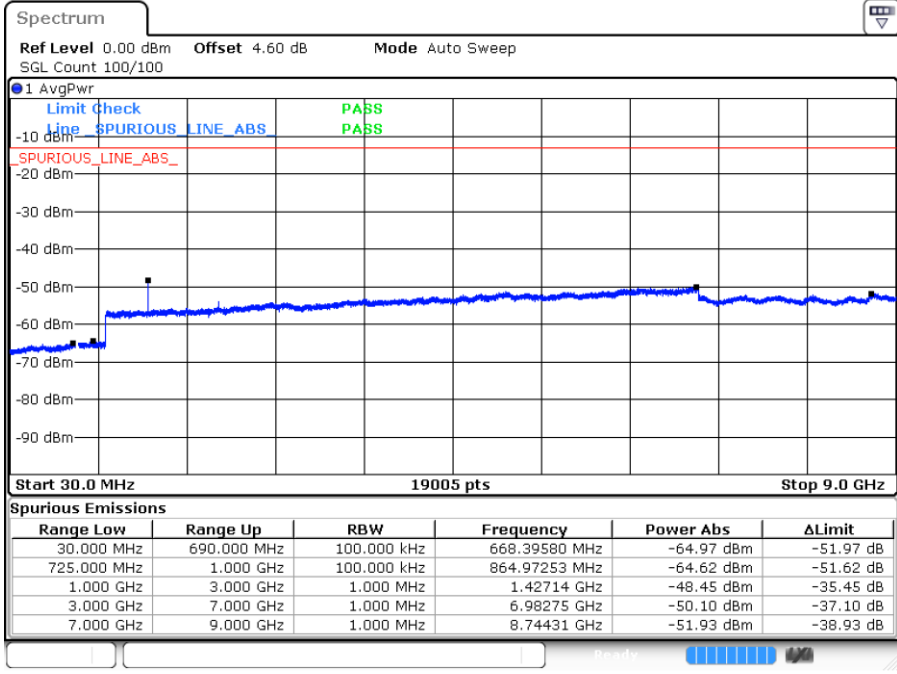
Middle Channel / QPSK



Date: 22.OCT.2022 21:07:51

Date: 22.OCT.2022 21:21:10

Highest Channel / QPSK

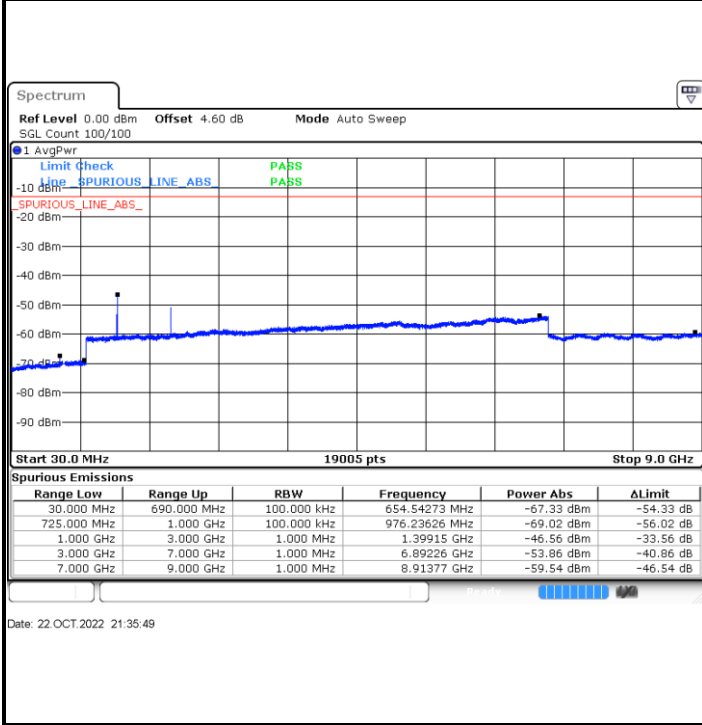


Date: 22.OCT.2022 21:22:30

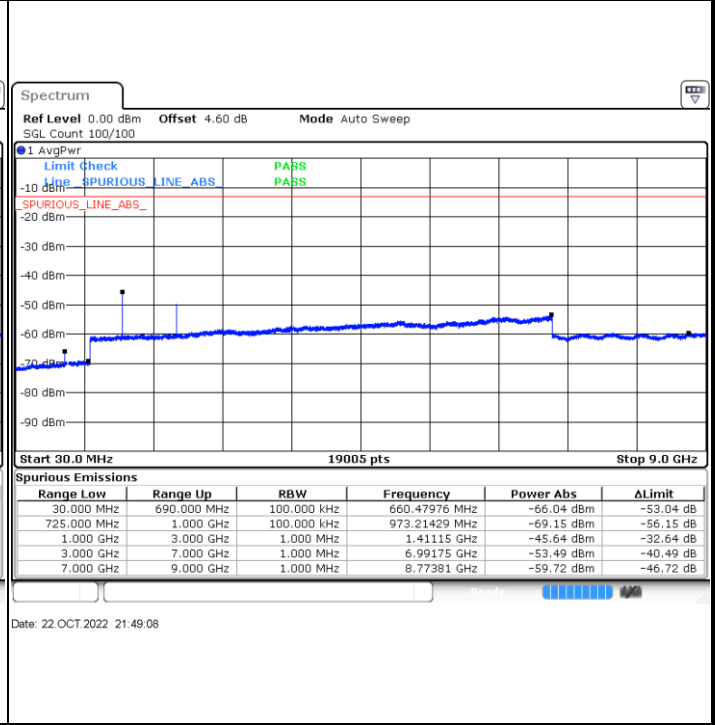


LTE Band 12 / 5MHz

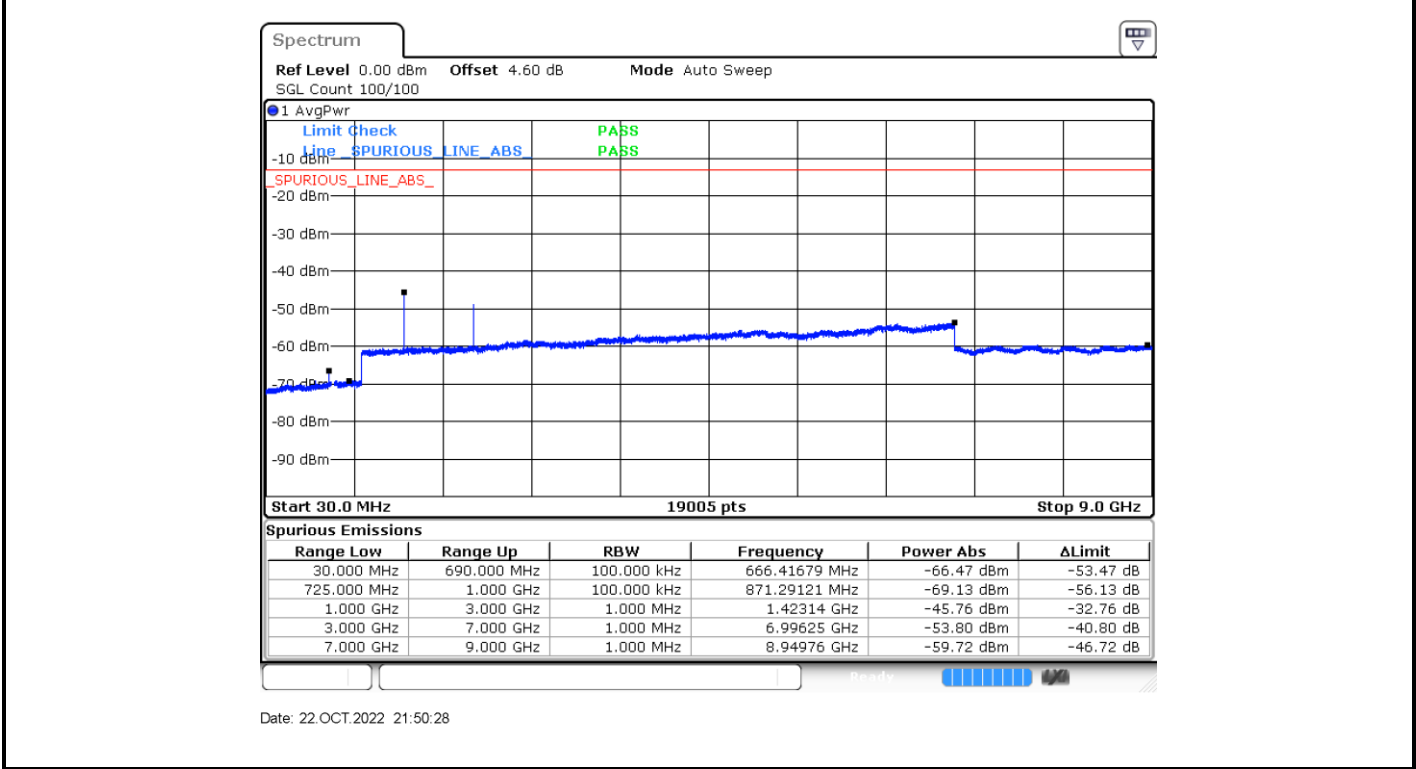
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

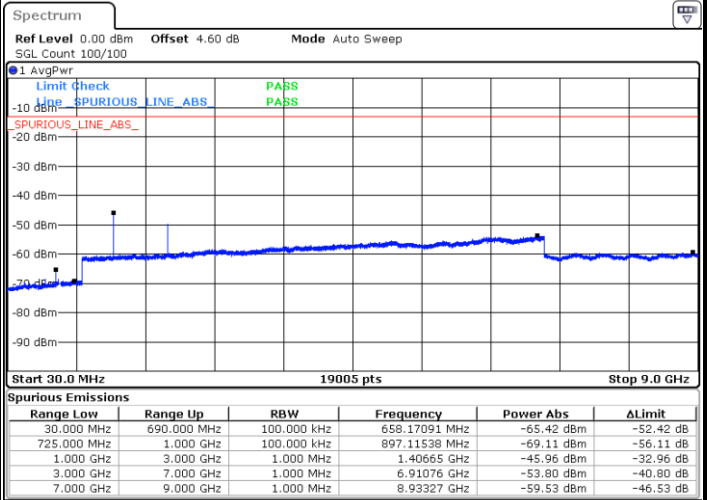
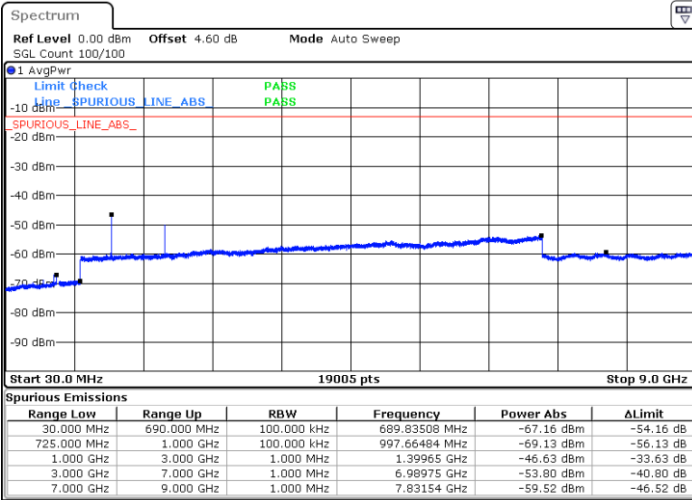




LTE Band 12 / 10MHz

Lowest Channel / QPSK

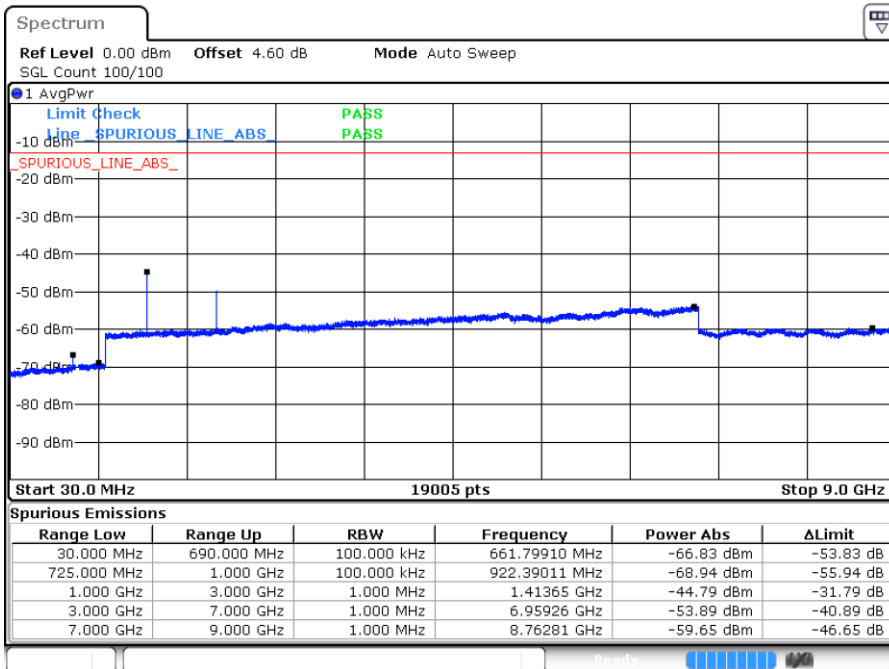
Middle Channel / QPSK



Date: 22.OCT.2022 22:03:48

Date: 22.OCT.2022 22:17:07

Highest Channel / QPSK



Date: 22.OCT.2022 22:18:27



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	0.0013	
20	Battery End Point	0.0102	

Note:

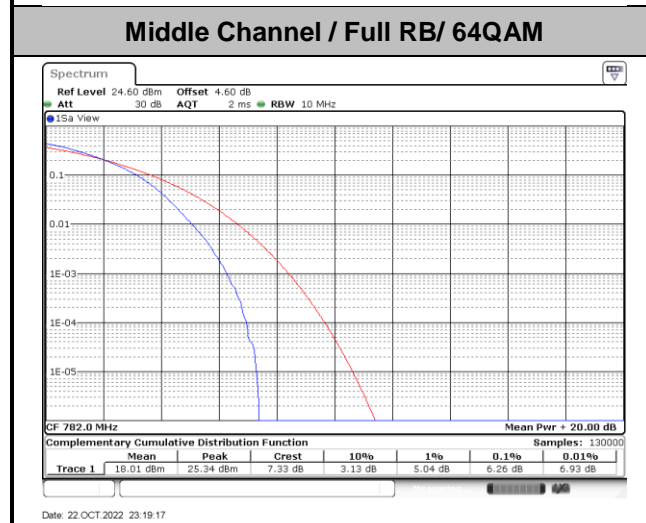
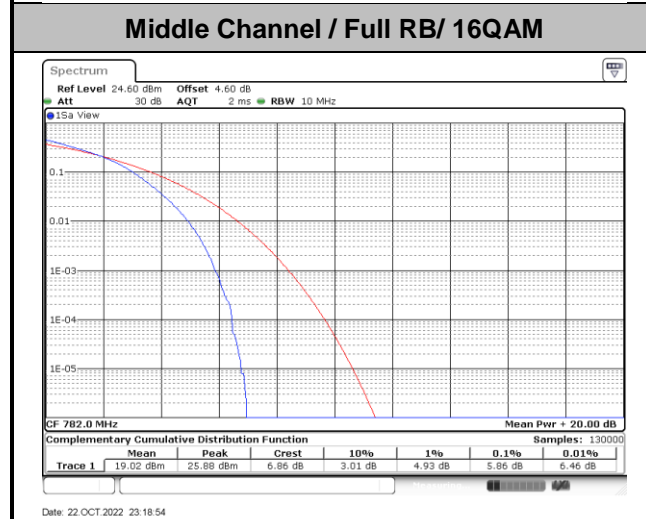
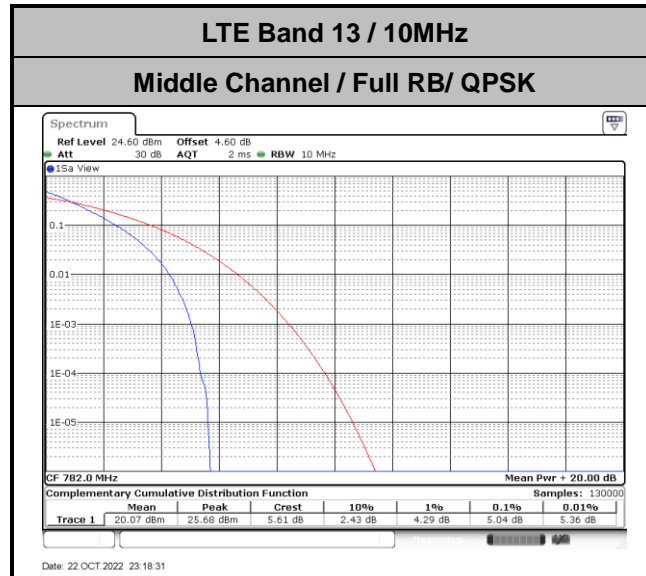
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

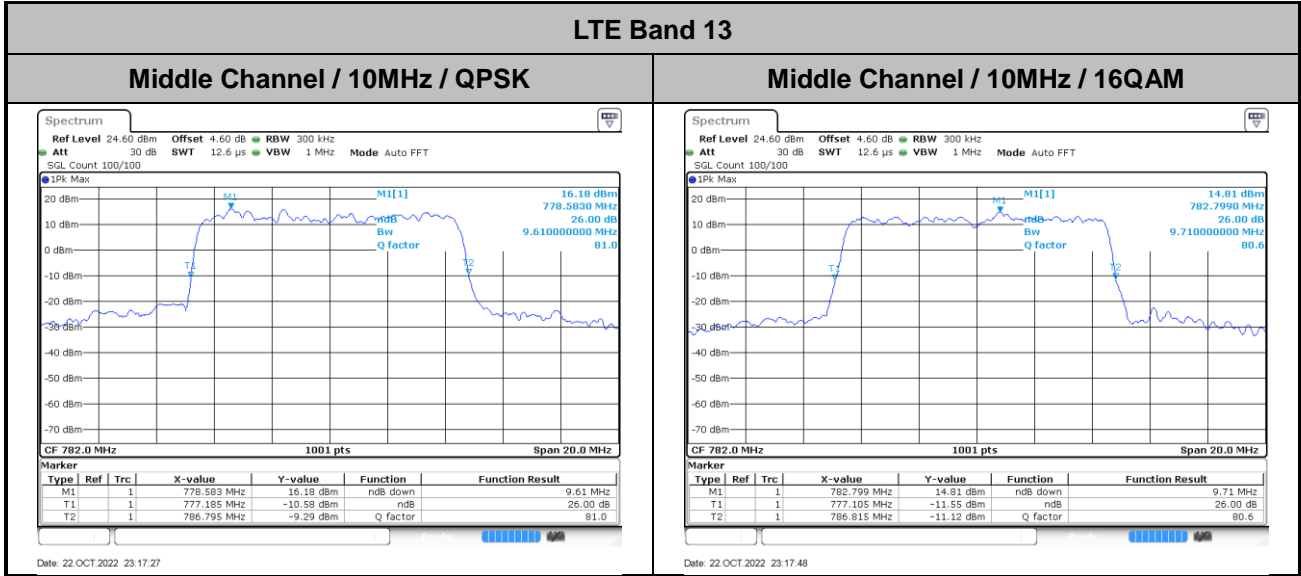
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	5.86	6.26	PASS





26dB Bandwidth

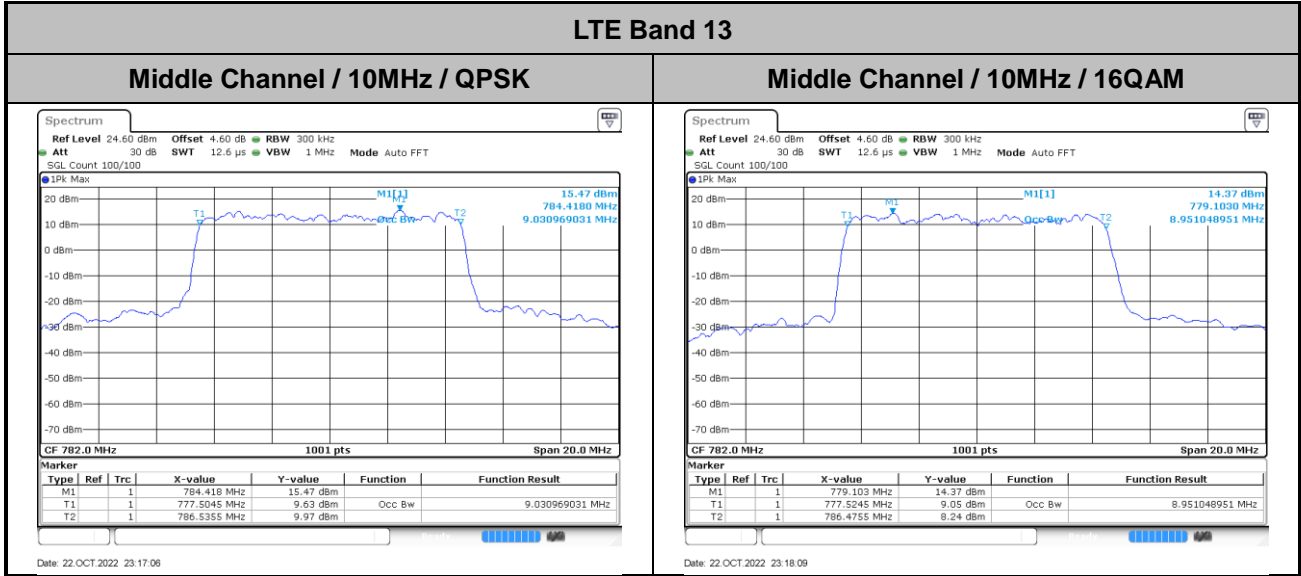
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.61	9.71





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.95

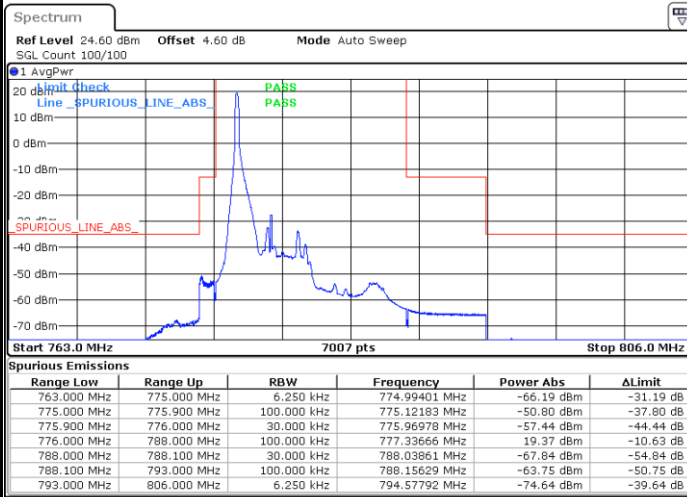




Conducted Band Edge

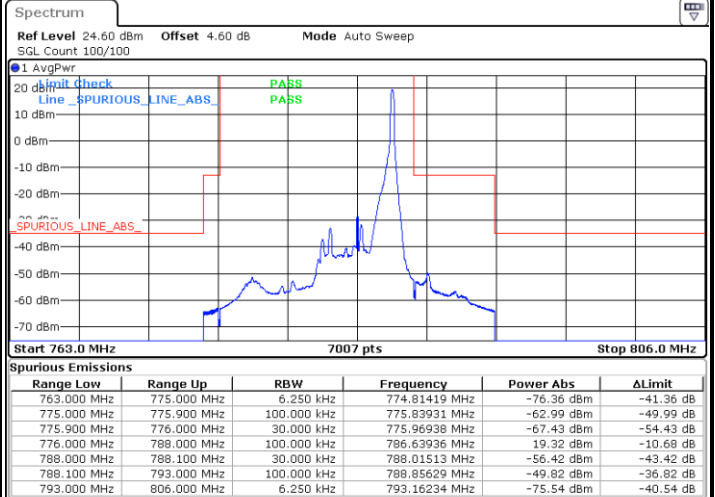
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



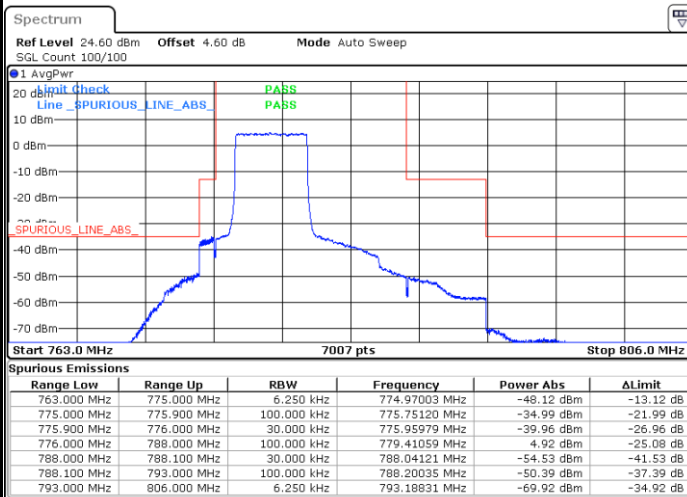
Date: 22.OCT.2022 22:34:51

Highest Band Edge / 1 RB



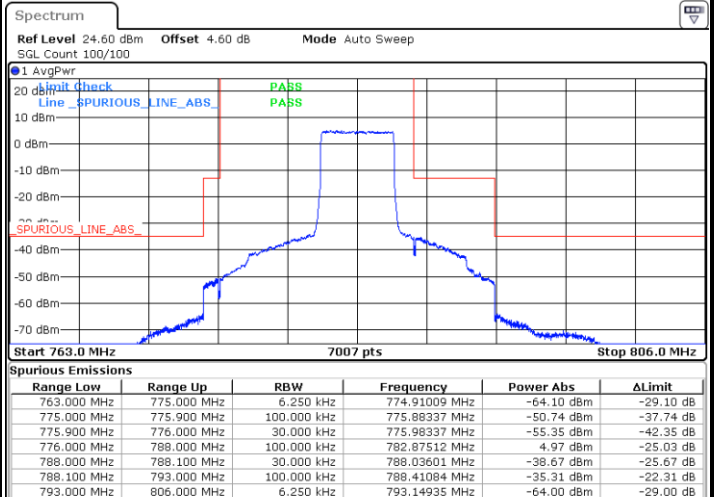
Date: 22.OCT.2022 22:49:51

Lowest Band Edge / Full RB



Date: 22.OCT.2022 22:44:01

Highest Band Edge / Full RB

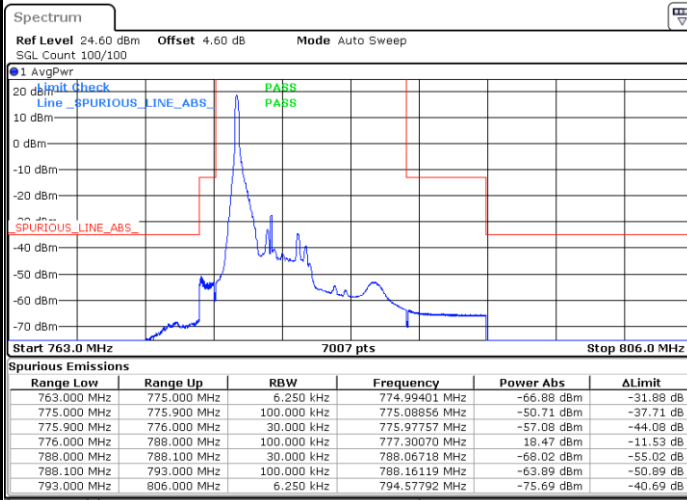


Date: 22.OCT.2022 22:59:00



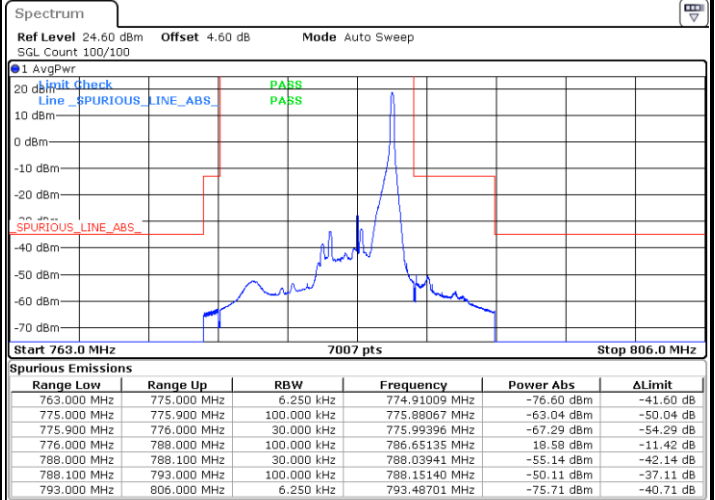
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



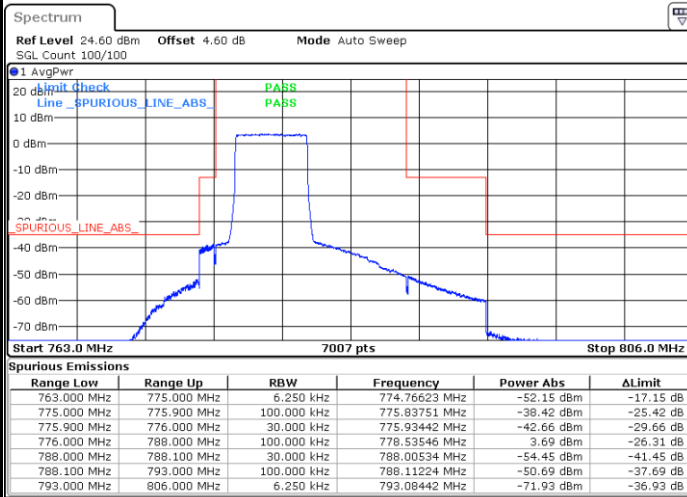
Date: 22.OCT.2022 22:36:41

Highest Band Edge / 1 RB



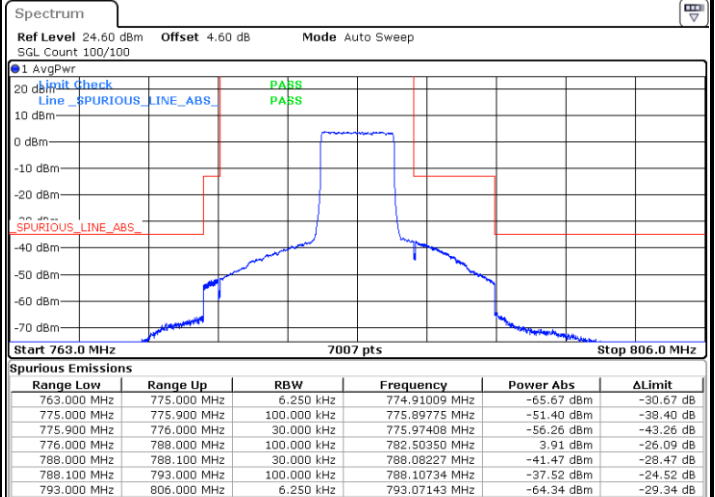
Date: 22.OCT.2022 22:51:41

Lowest Band Edge / Full RB



Date: 22.OCT.2022 22:42:11

Highest Band Edge / Full RB



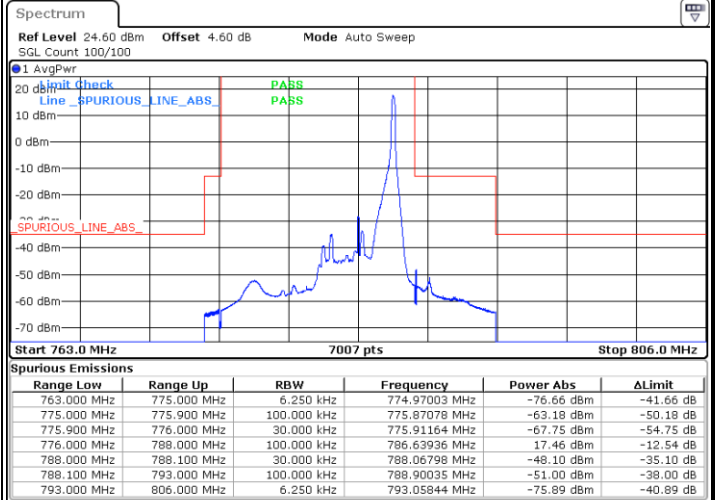
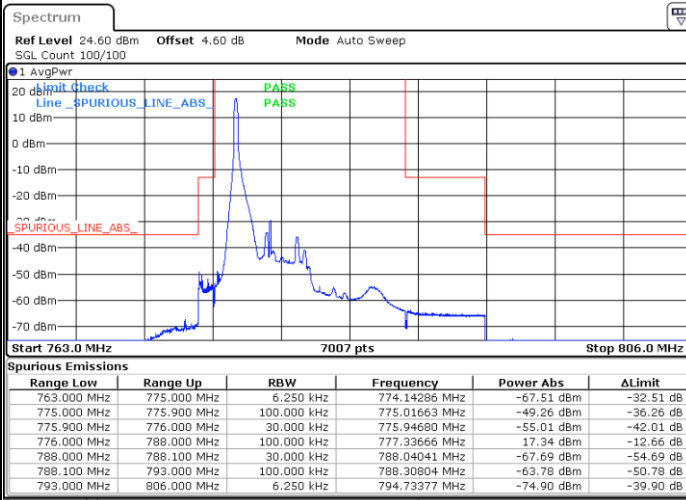
Date: 22.OCT.2022 22:57:10



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

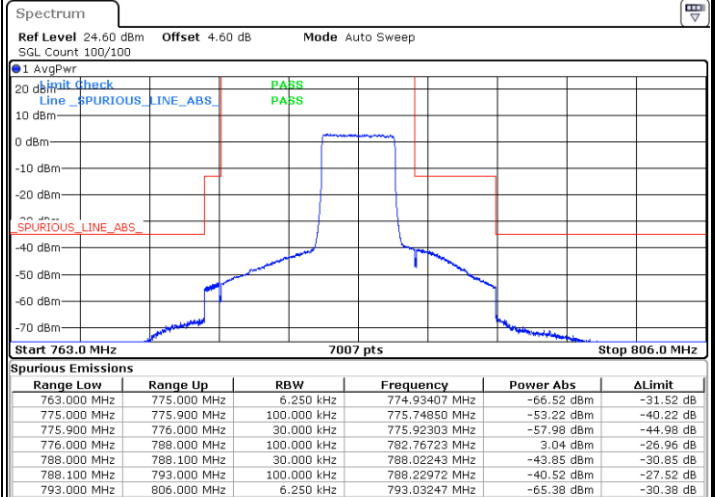
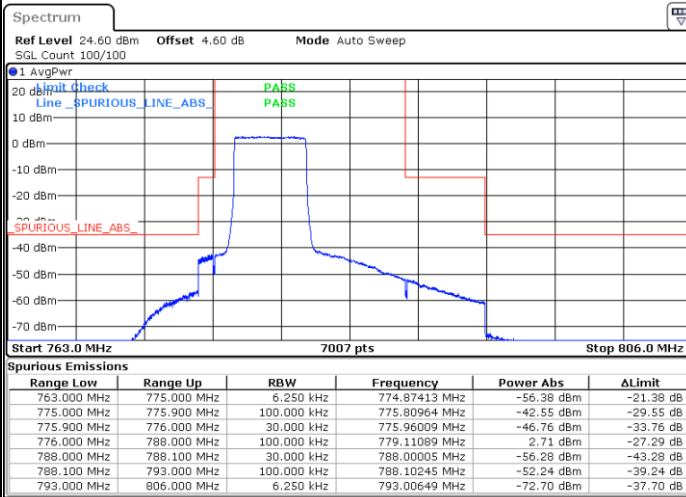


Date: 22.OCT.2022 22:38:31

Date: 22.OCT.2022 22:53:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.OCT.2022 22:40:21

Date: 22.OCT.2022 22:55:20