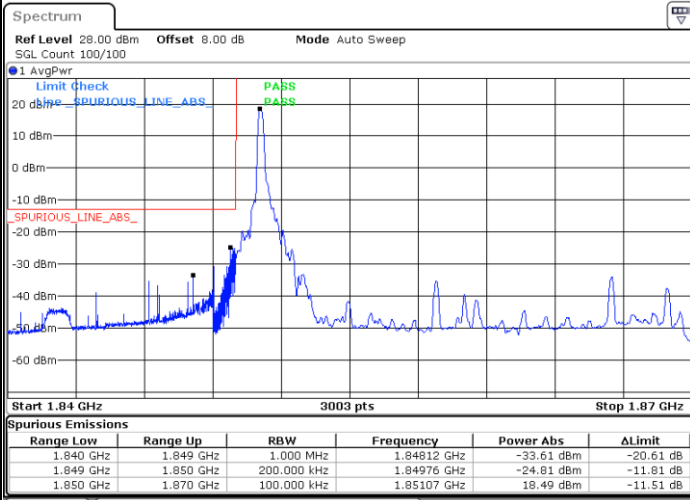




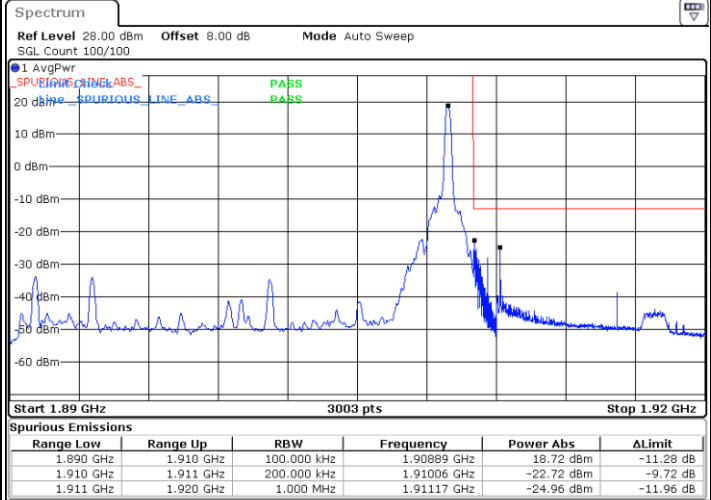
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



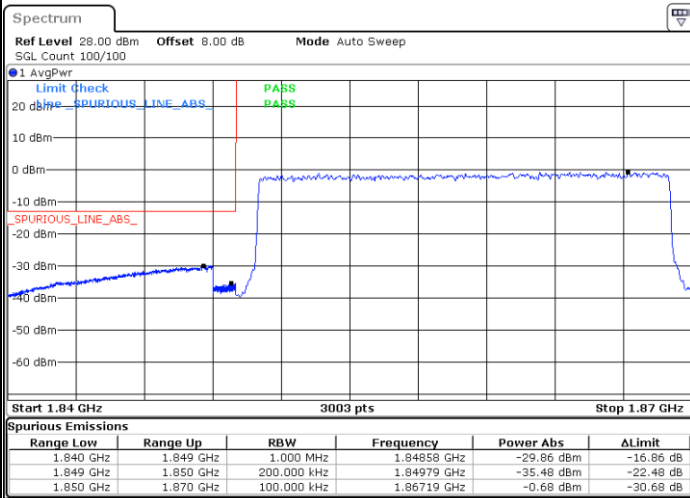
Date: 24.NOV.2023 22:09:27

Highest Band Edge / 1 RB



Date: 24.NOV.2023 22:23:55

Lowest Band Edge / Full RB



Date: 24.NOV.2023 22:13:50

Highest Band Edge / Full RB

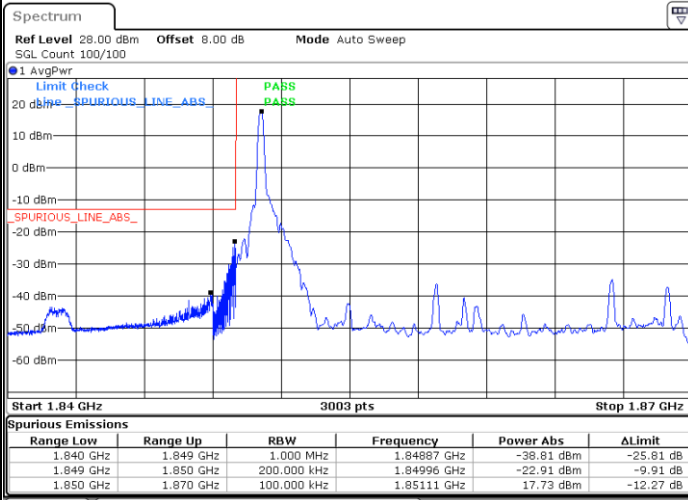


Date: 24.NOV.2023 22:28:18



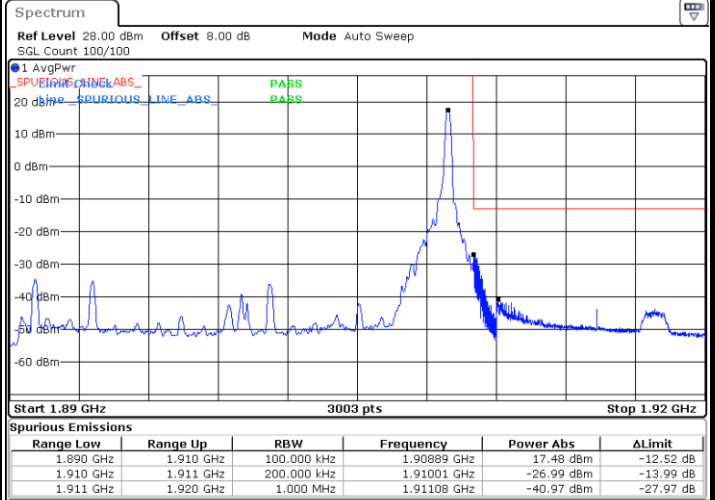
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



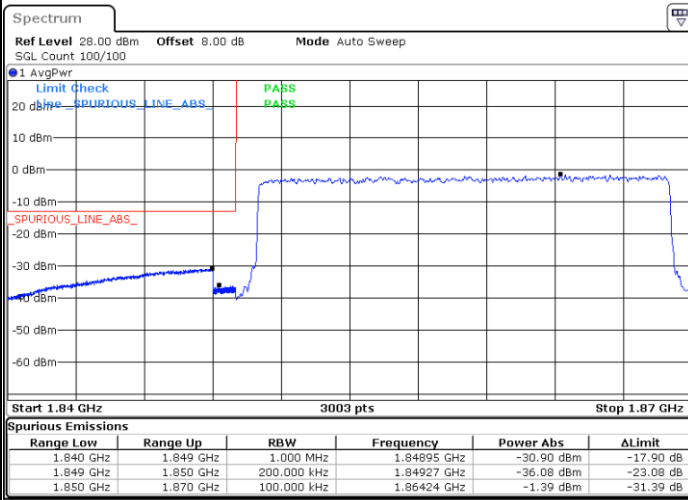
Date: 24.NOV.2023 22:10:54

Highest Band Edge / 1 RB



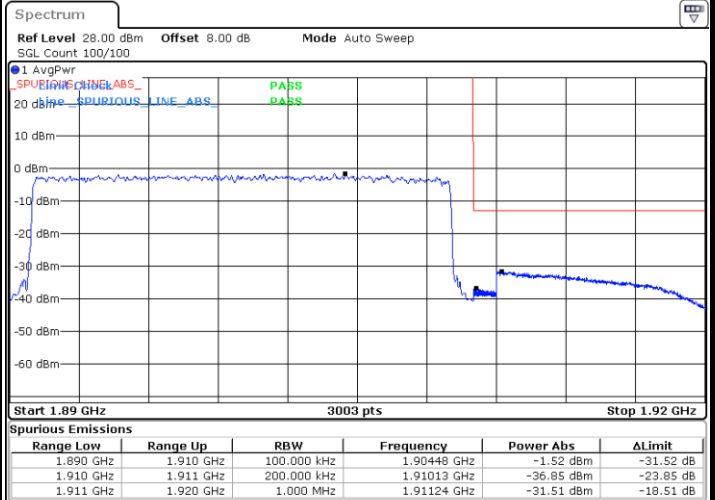
Date: 24.NOV.2023 22:25:23

Lowest Band Edge / Full RB



Date: 24.NOV.2023 22:15:17

Highest Band Edge / Full RB



Date: 24.NOV.2023 22:29:46

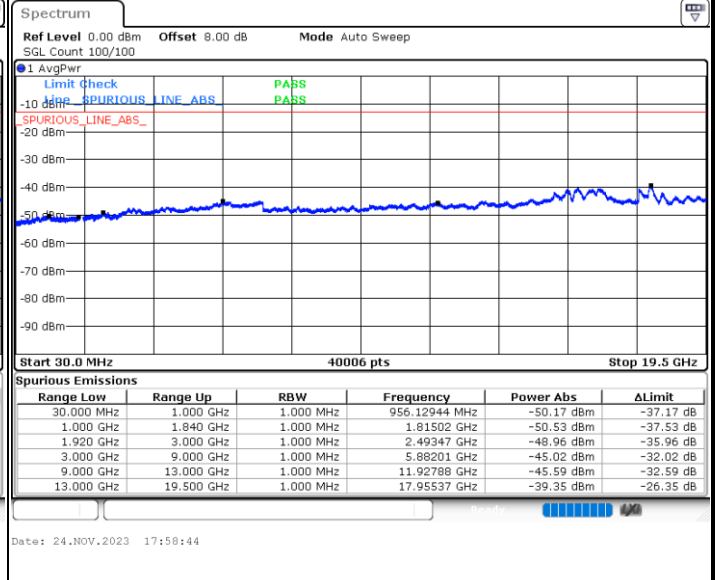
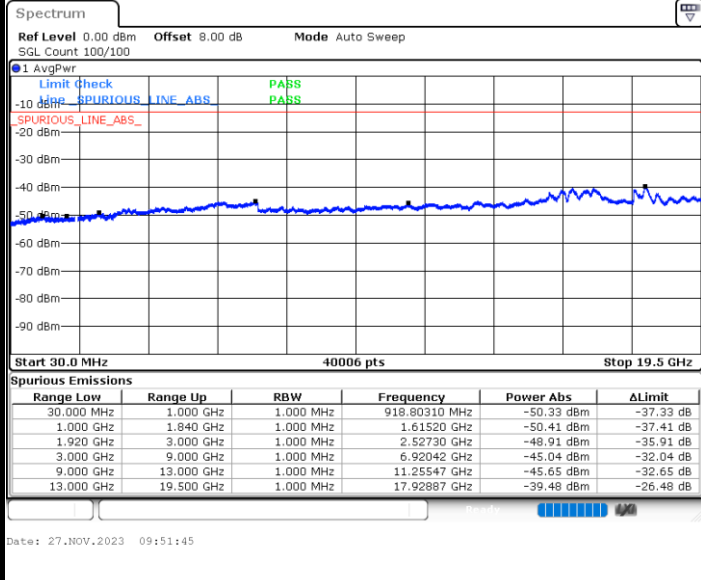


Conducted Spurious Emission

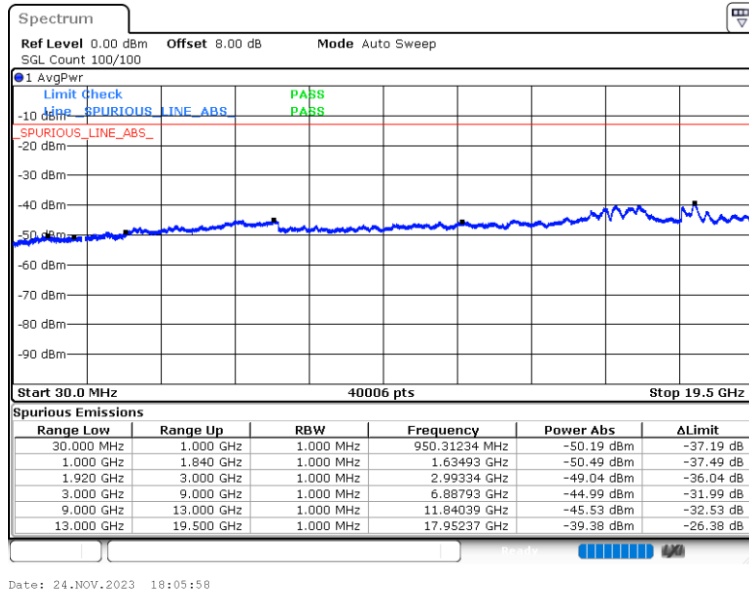
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

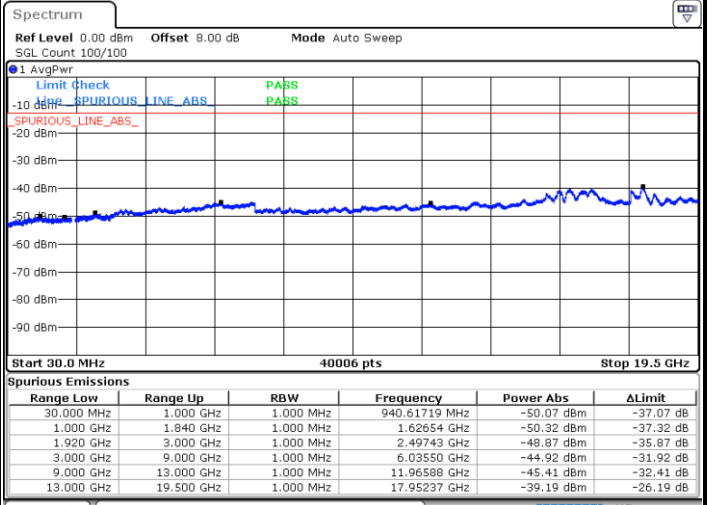
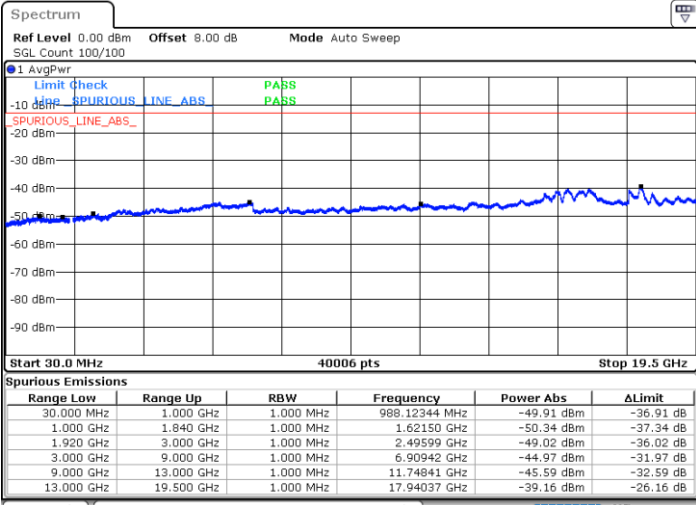




LTE Band 2 / 3MHz

Lowest Channel / QPSK

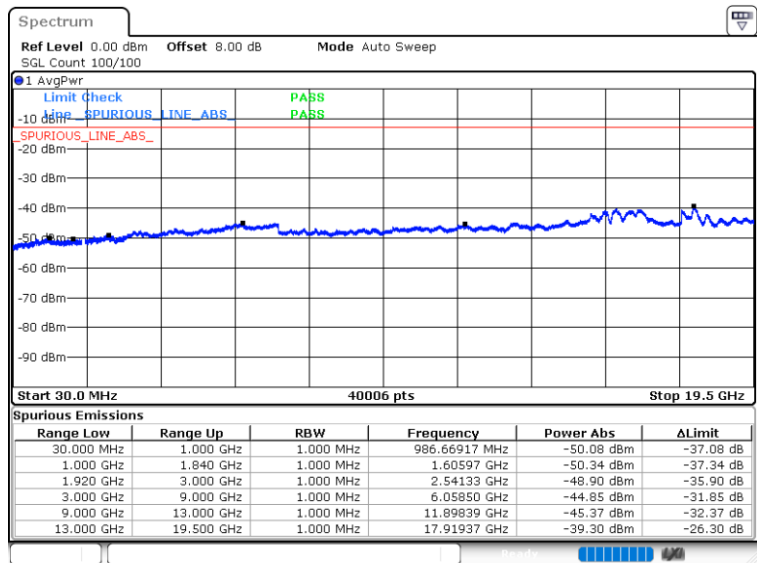
Middle Channel / QPSK



Date: 24.NOV.2023 18:18:09

Date: 24.NOV.2023 18:24:01

Highest Channel / QPSK



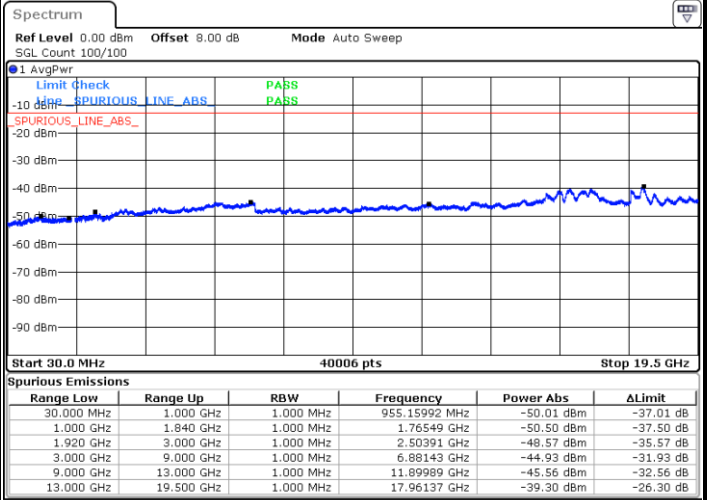
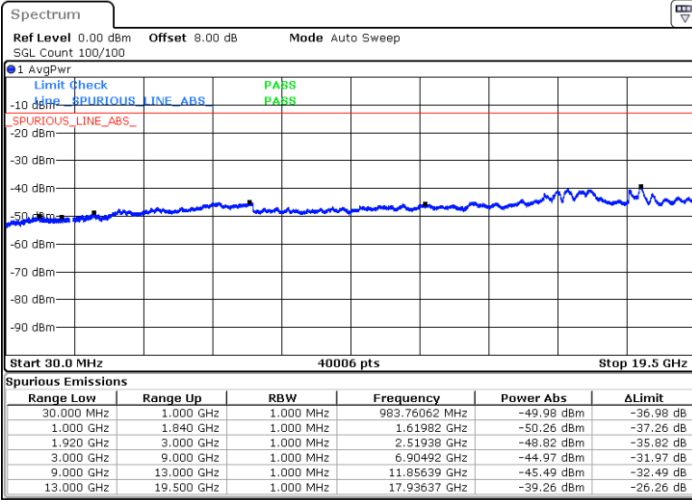
Date: 24.NOV.2023 18:35:40



LTE Band 2 / 5MHz

Lowest Channel / QPSK

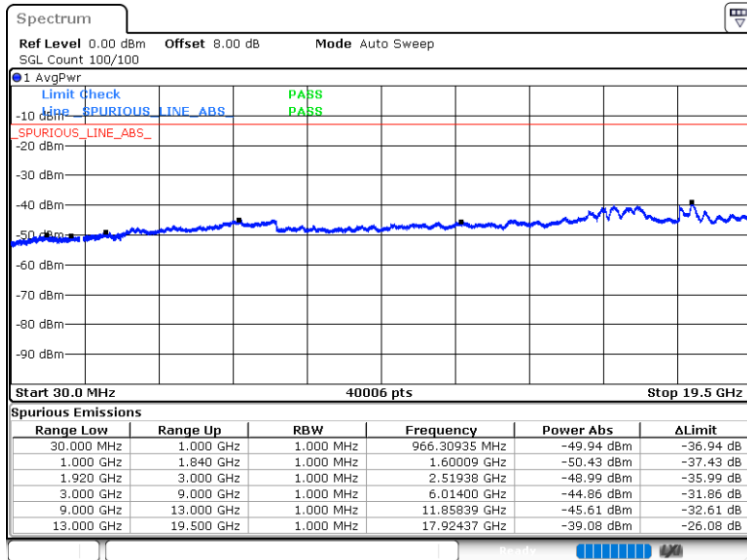
Middle Channel / QPSK



Date: 24.NOV.2023 18:43:27

Date: 24.NOV.2023 18:49:18

Highest Channel / QPSK



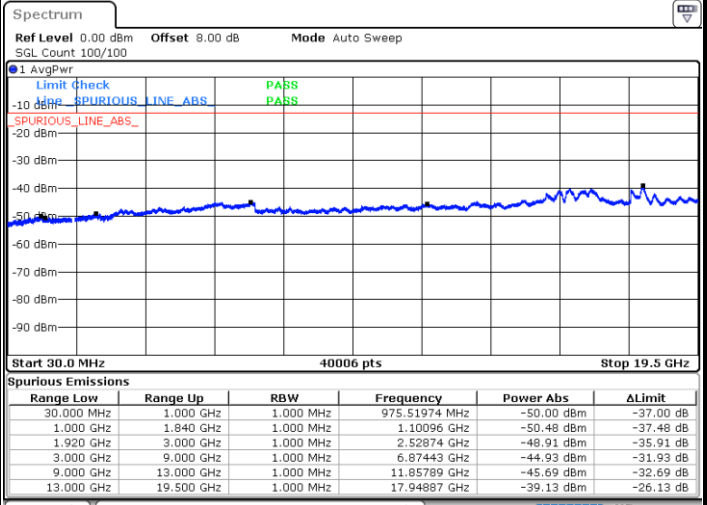
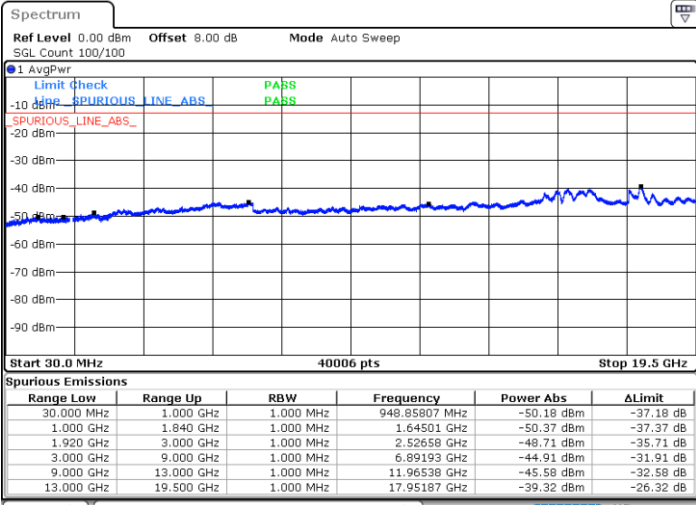
Date: 24.NOV.2023 19:00:57



LTE Band 2 / 10MHz

Lowest Channel / QPSK

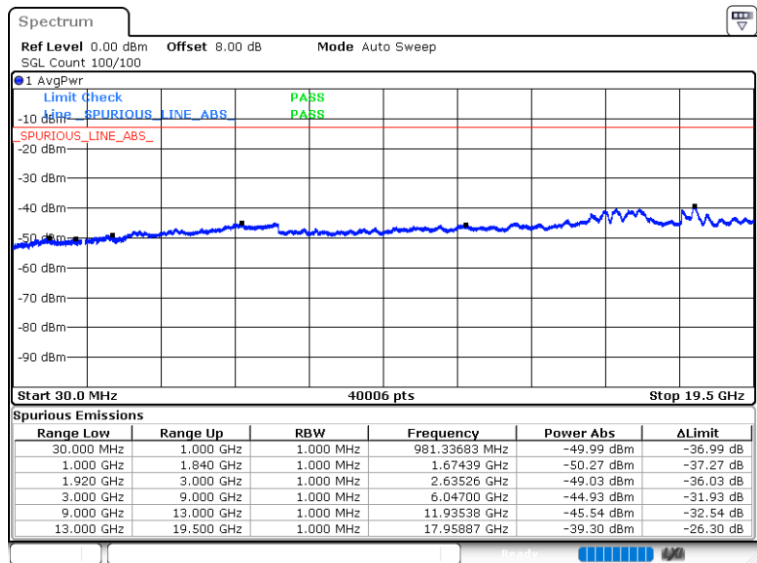
Middle Channel / QPSK



Date: 24.NOV.2023 19:13:11

Date: 24.NOV.2023 19:14:38

Highest Channel / QPSK



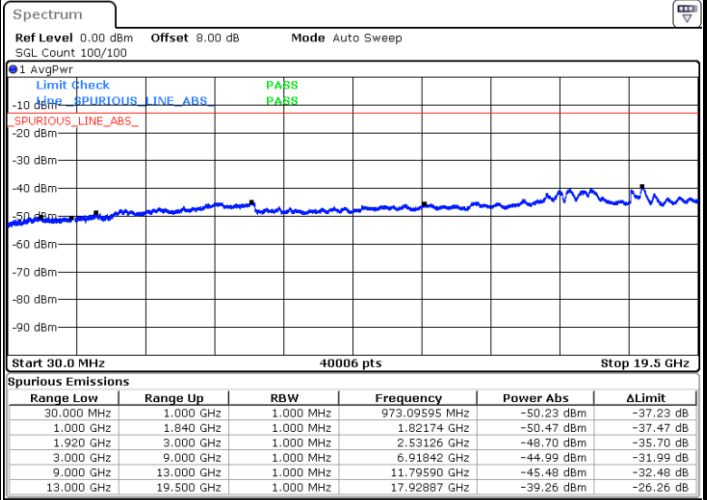
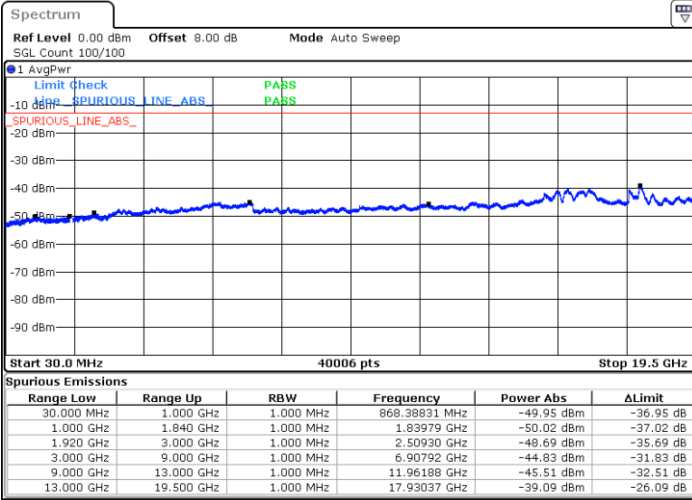
Date: 24.NOV.2023 19:26:17



LTE Band 2 / 15MHz

Lowest Channel / QPSK

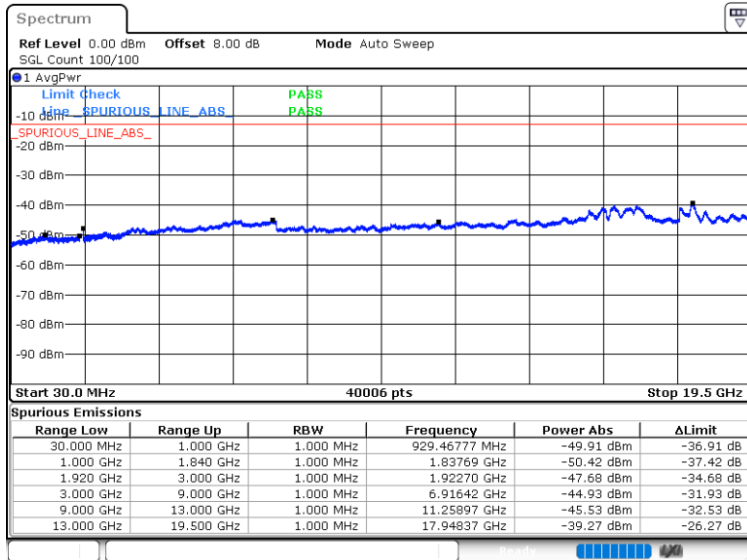
Middle Channel / QPSK



Date: 24.NOV.2023 19:38:28

Date: 24.NOV.2023 19:39:55

Highest Channel / QPSK



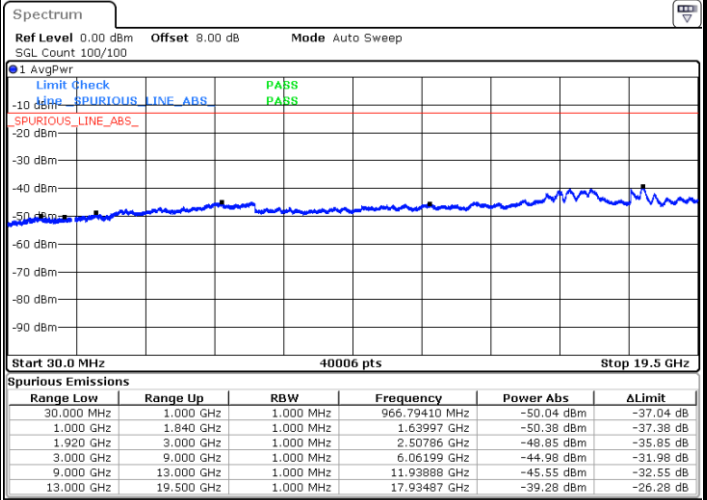
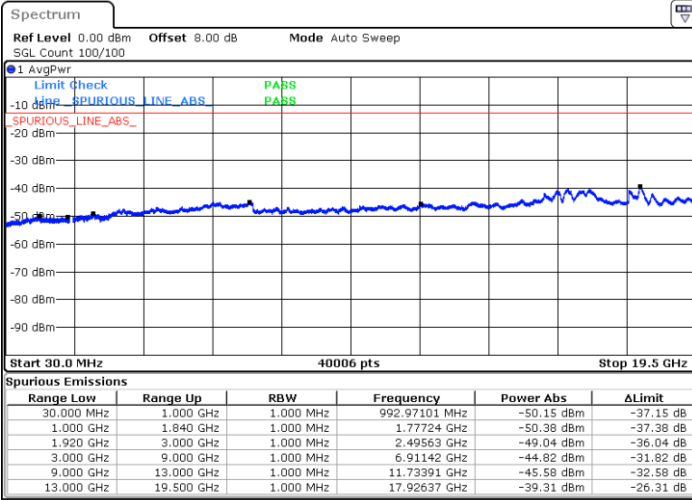
Date: 24.NOV.2023 19:51:34



LTE Band 2 / 20MHz

Lowest Channel / QPSK

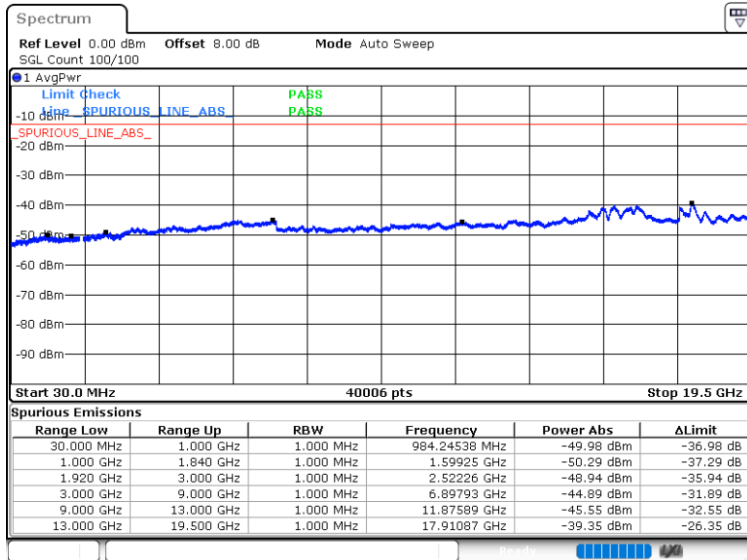
Middle Channel / QPSK



Date: 24.NOV.2023 22:16:44

Date: 24.NOV.2023 22:18:11

Highest Channel / QPSK



Date: 24.NOV.2023 22:31:13



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	0.0010	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

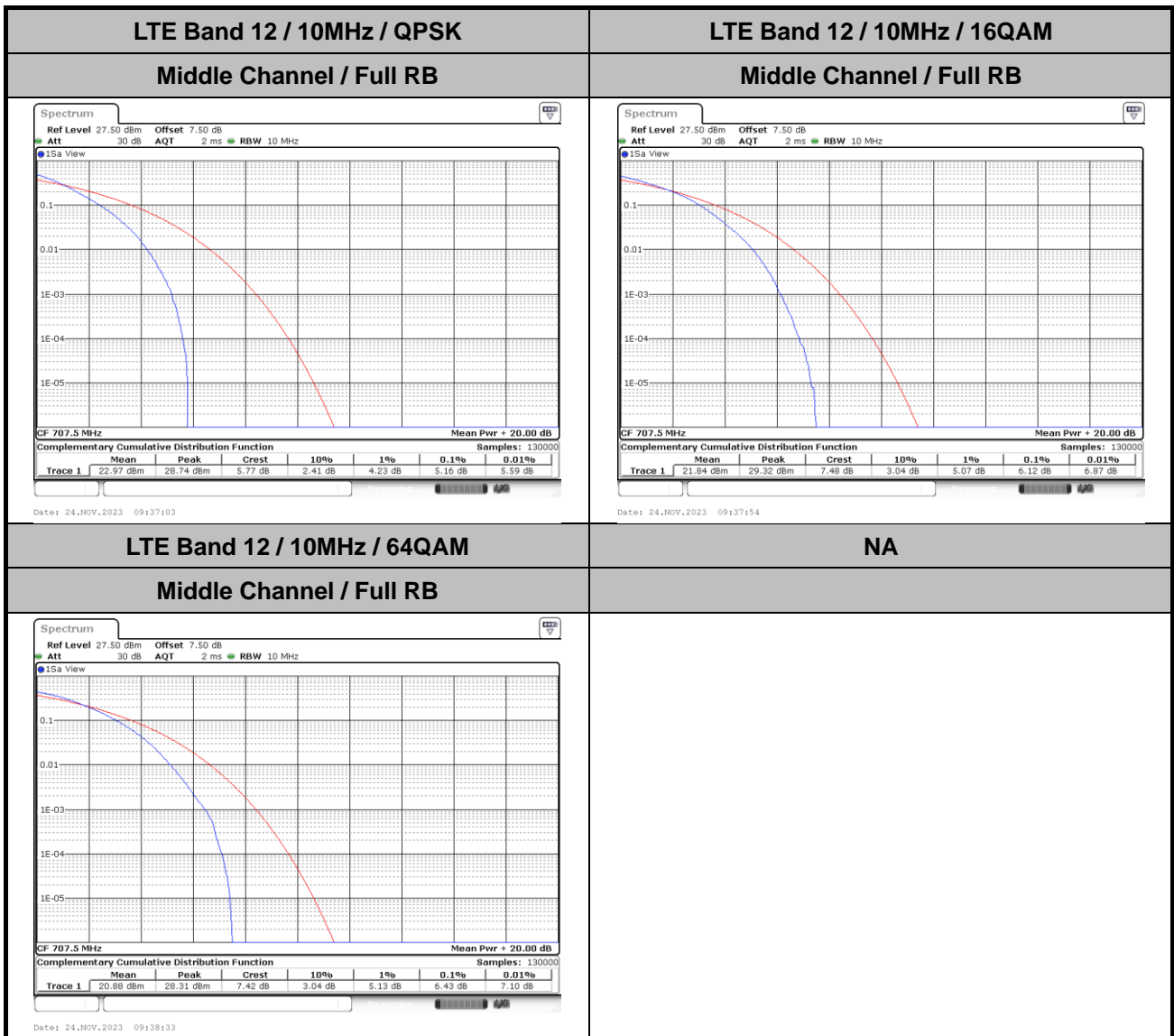
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

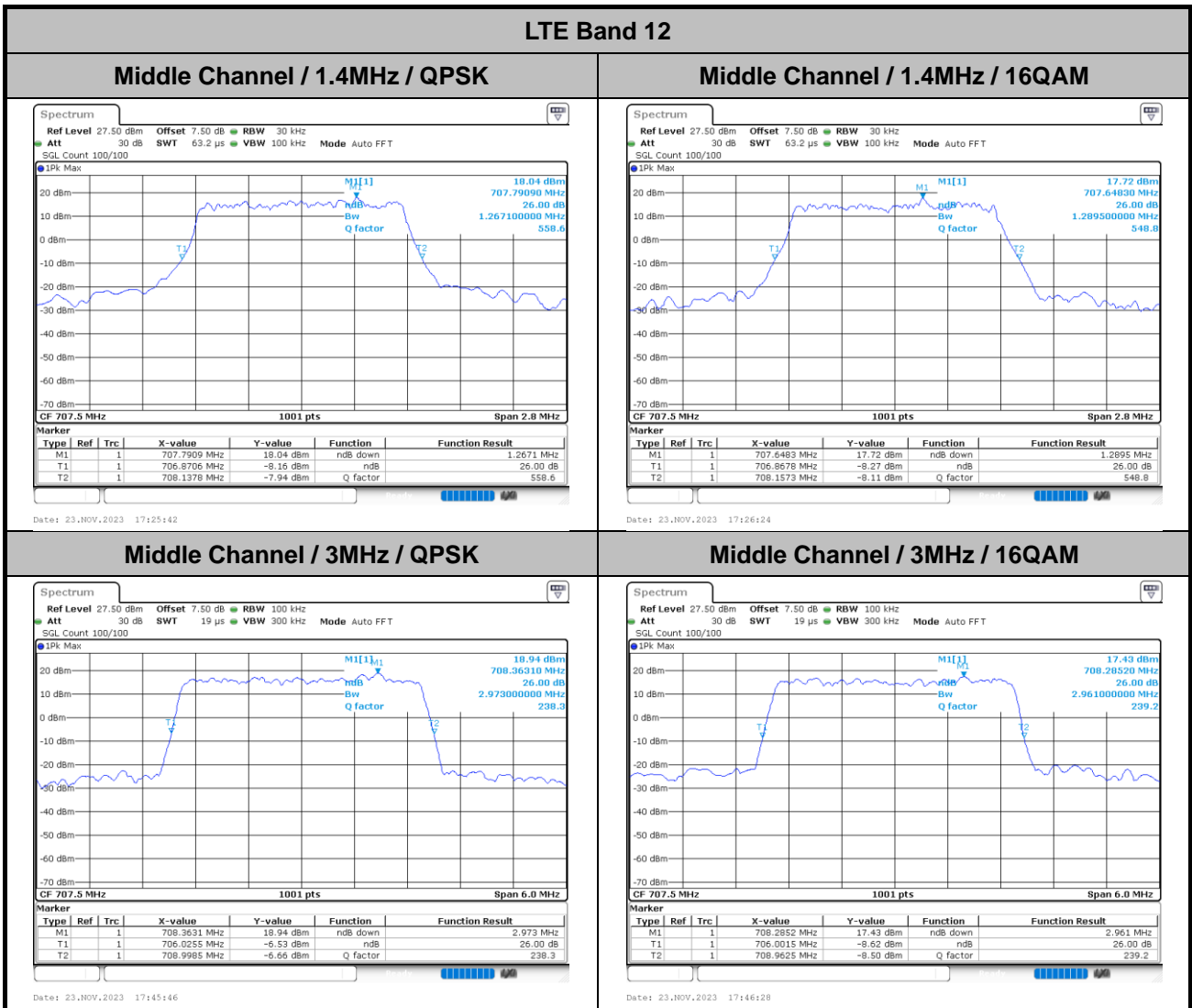
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.16	6.12	6.43	PASS





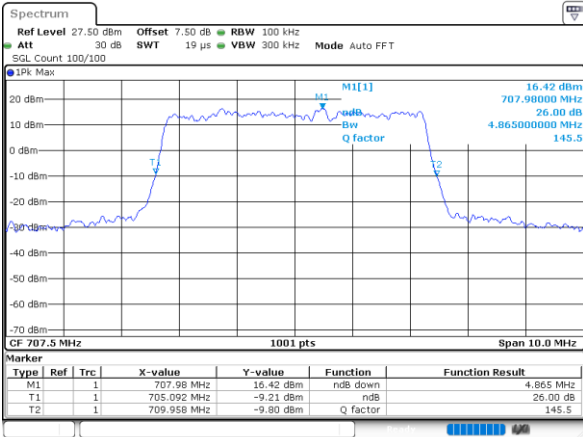
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)									
BW	1.4MHz		3MHz		5MHz		10MHz		-	-
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	-	-
Middle CH	1.27	1.29	2.97	2.96	4.87	4.90	9.87	9.73	-	-



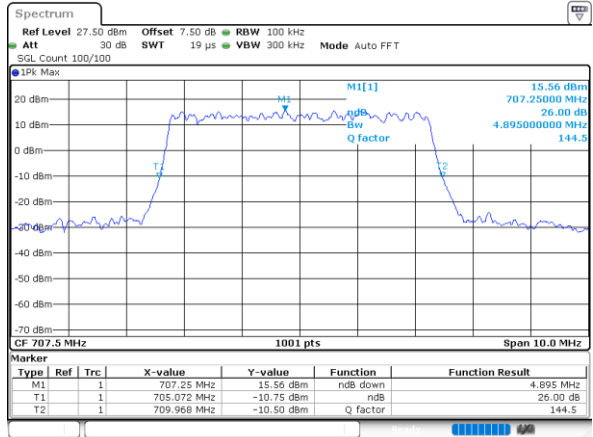


Middle Channel / 5MHz / QPSK



Date: 23.NOV.2023 18:04:07

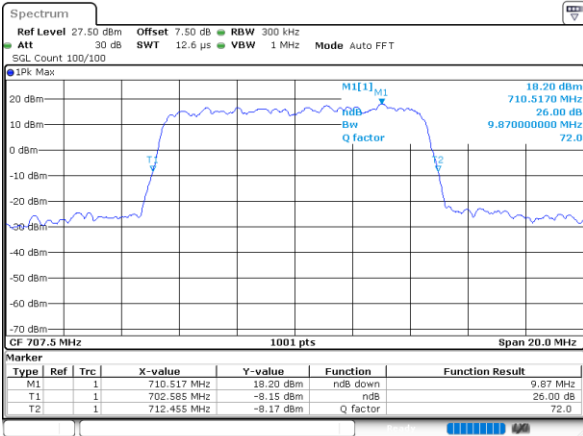
Middle Channel / 5MHz / 16QAM



Date: 23.NOV.2023 18:04:50

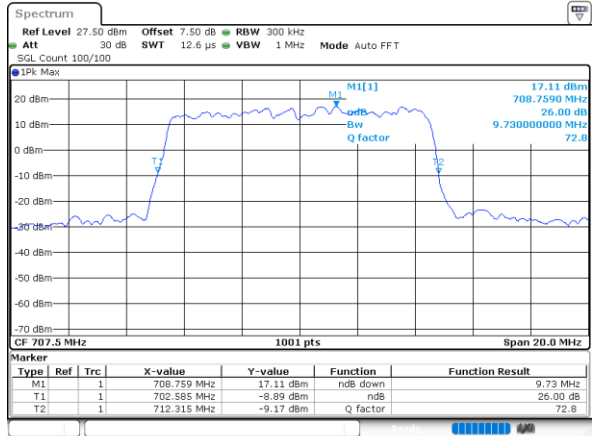
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 23.NOV.2023 18:23:00

Middle Channel / 10MHz / 16QAM

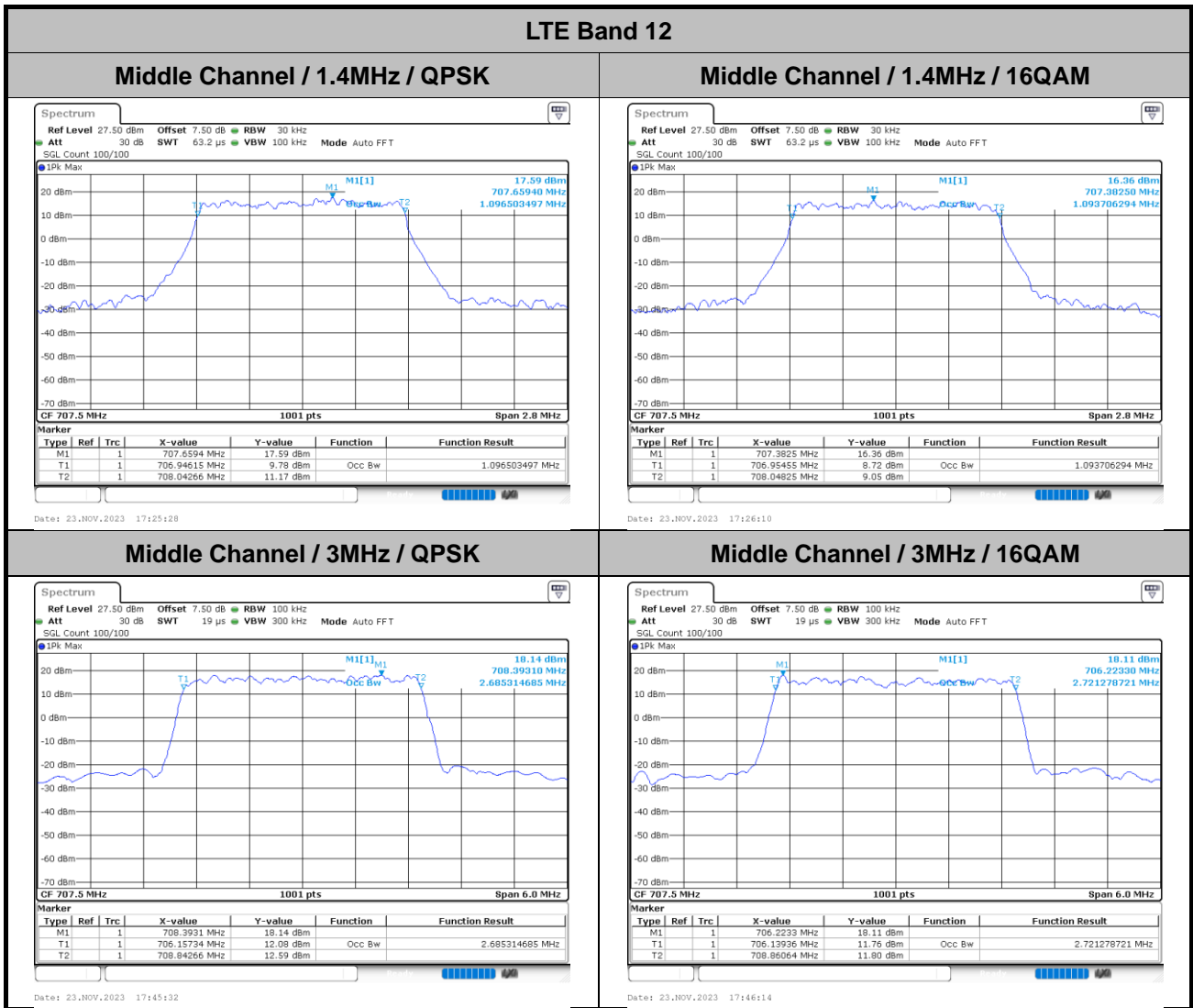


Date: 23.NOV.2023 18:23:43



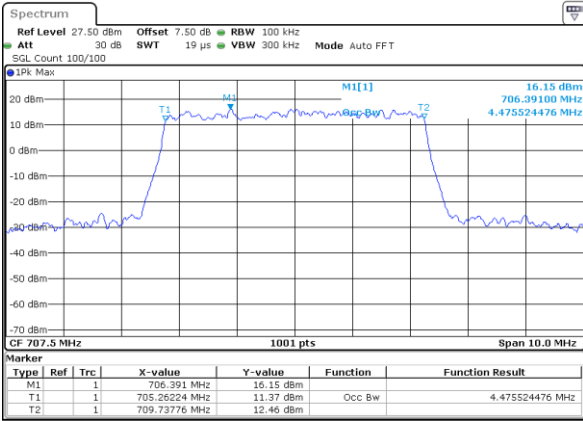
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)									
BW	1.4MHz		3MHz		5MHz		10MHz		-	-
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	-	-
Middle CH	1.10	1.09	2.69	2.72	4.48	4.48	8.99	9.01	-	-



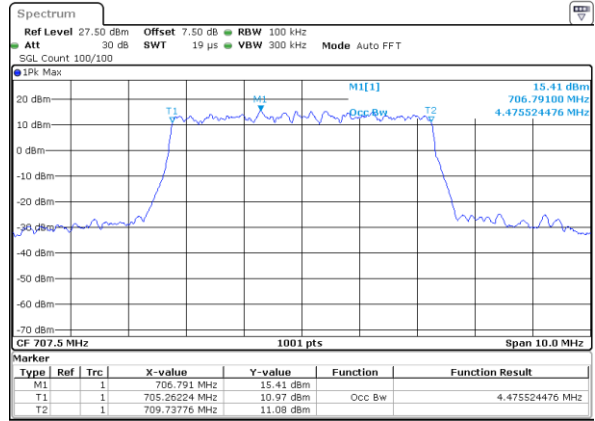


Middle Channel / 5MHz / QPSK



Date: 23.NOV.2023 18:03:53

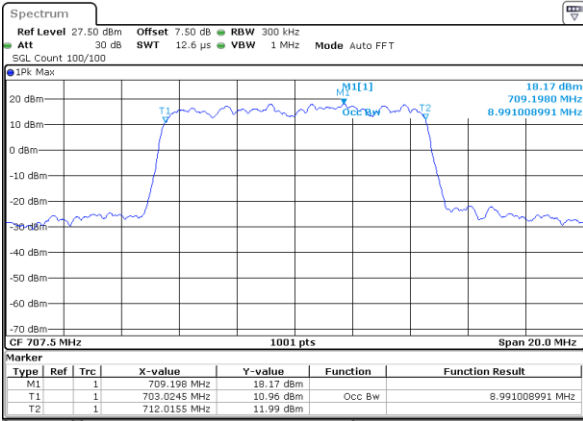
Middle Channel / 5MHz / 16QAM



Date: 23.NOV.2023 18:04:35

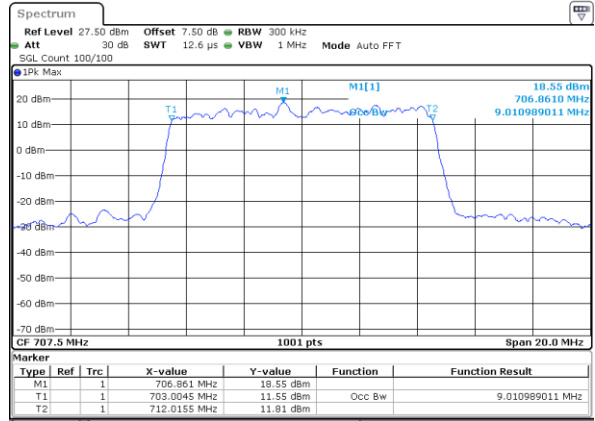
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 23.NOV.2023 18:22:46

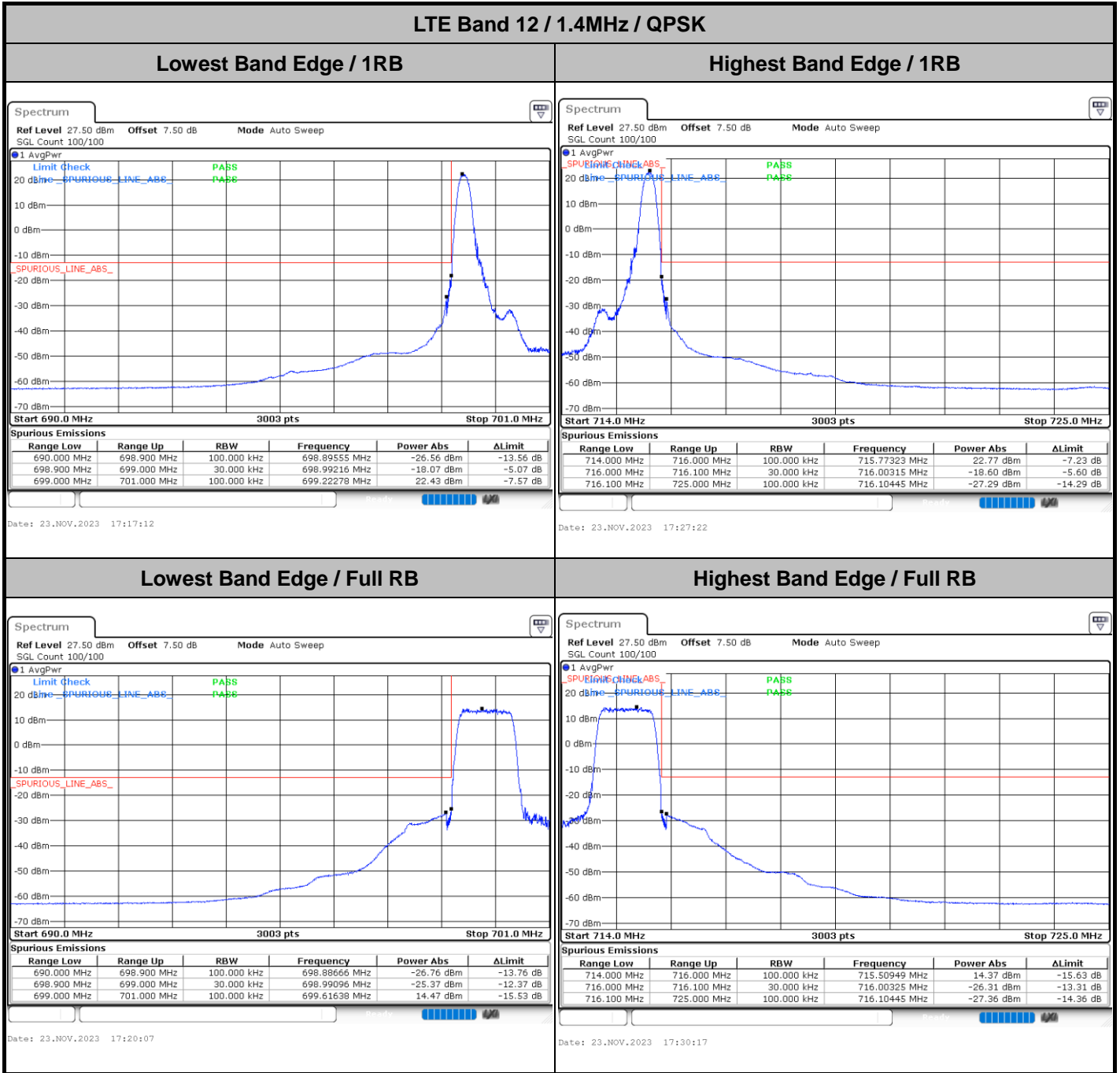
Middle Channel / 10MHz / 16QAM



Date: 23.NOV.2023 18:23:29



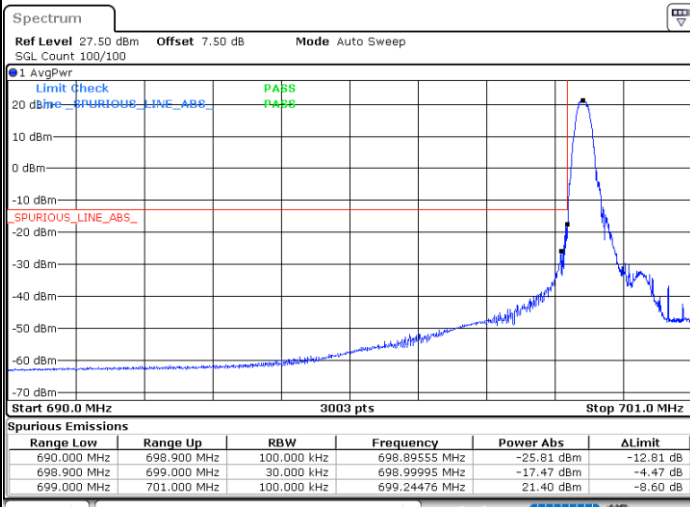
Conducted Band Edge





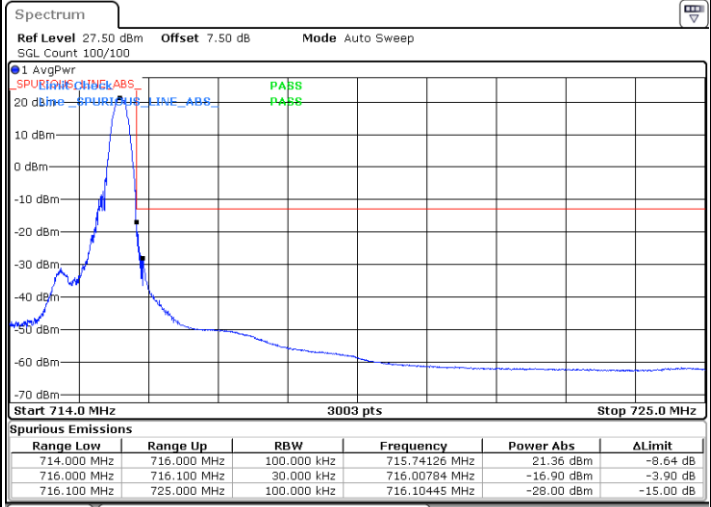
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



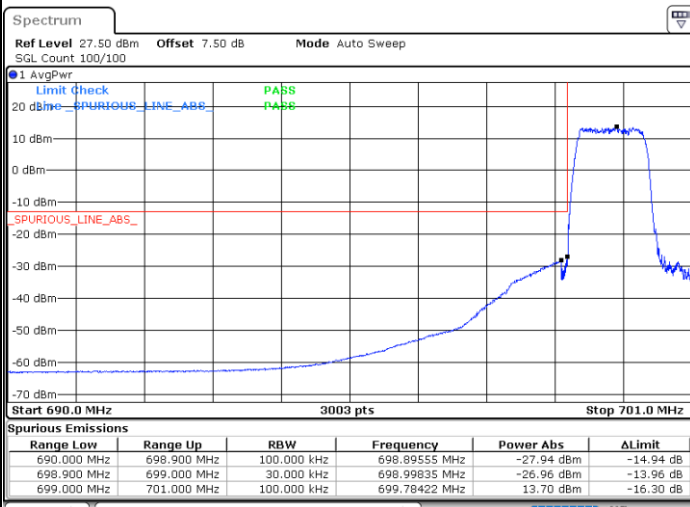
Date: 23.NOV.2023 17:18:10

Highest Band Edge / 1 RB



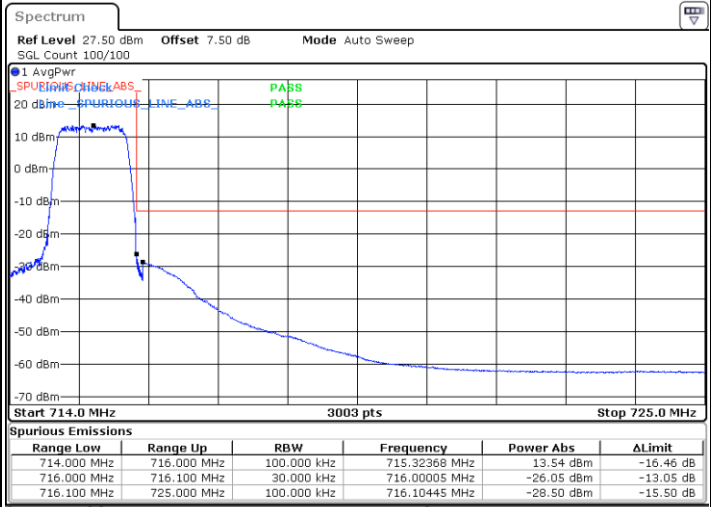
Date: 23.NOV.2023 17:28:20

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:21:05

Highest Band Edge / Full RB



Date: 23.NOV.2023 17:31:15



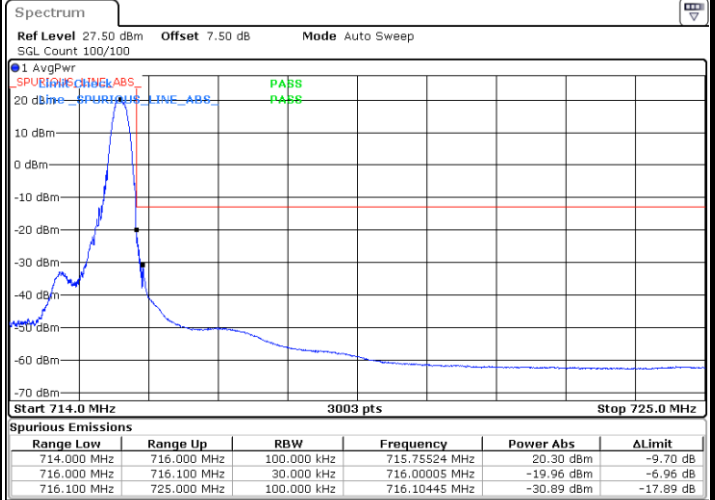
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



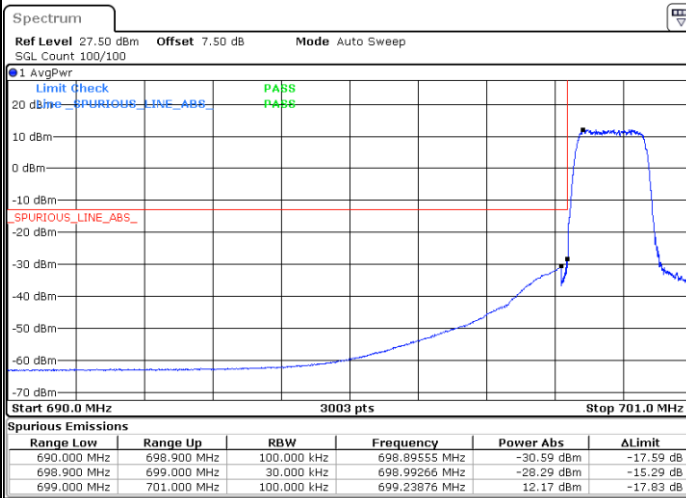
Date: 23.NOV.2023 17:19:08

Highest Band Edge / 1 RB



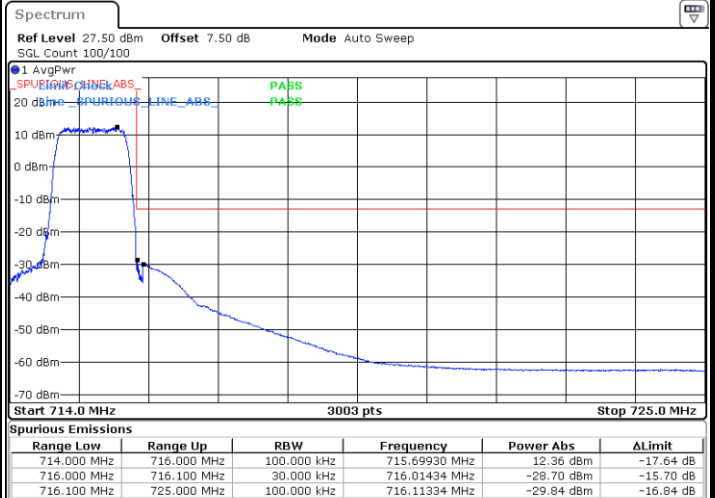
Date: 23.NOV.2023 17:29:19

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:22:03

Highest Band Edge / Full RB

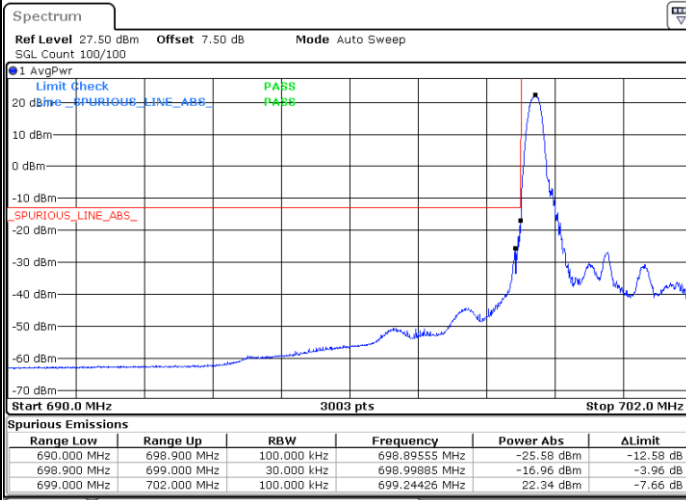


Date: 23.NOV.2023 17:32:14



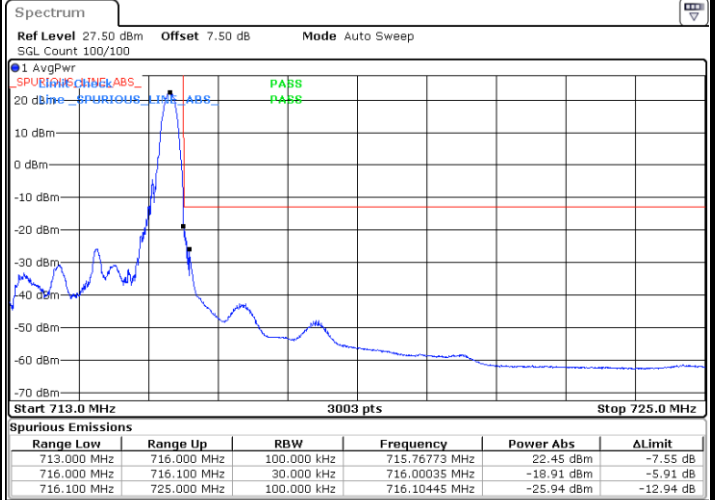
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



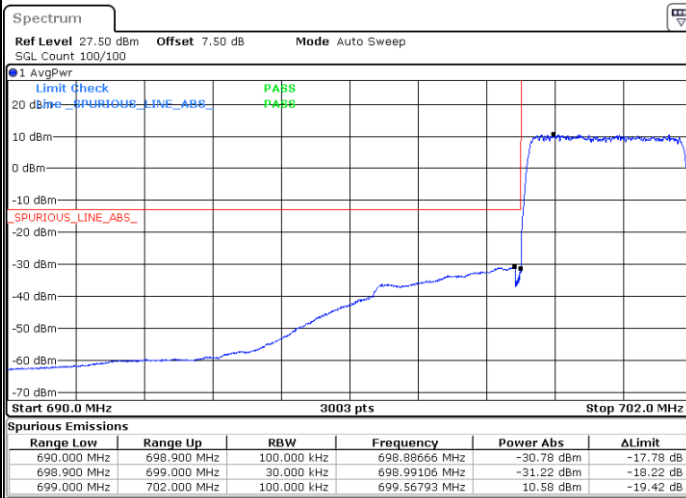
Date: 23.NOV.2023 17:37:16

Highest Band Edge / 1RB



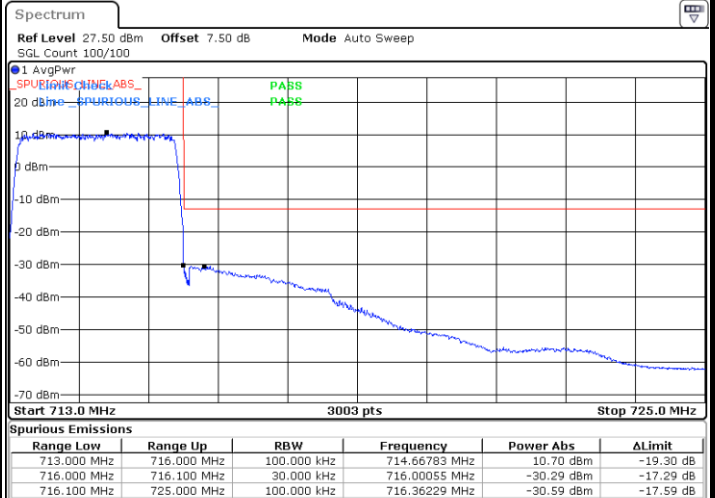
Date: 23.NOV.2023 17:47:26

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:40:11

Highest Band Edge / Full RB

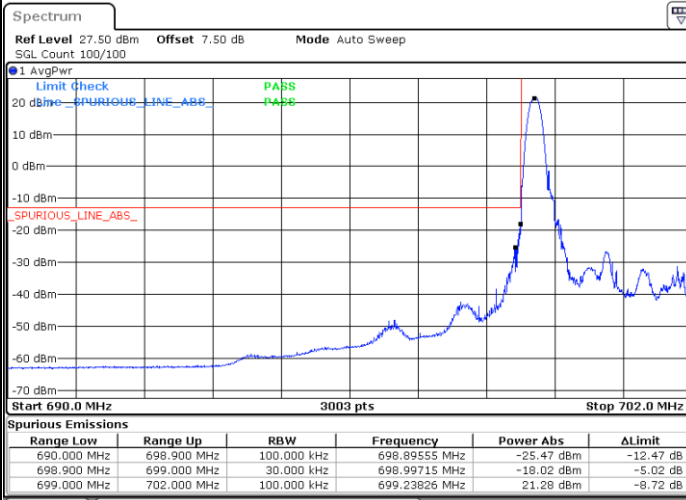


Date: 23.NOV.2023 17:50:21



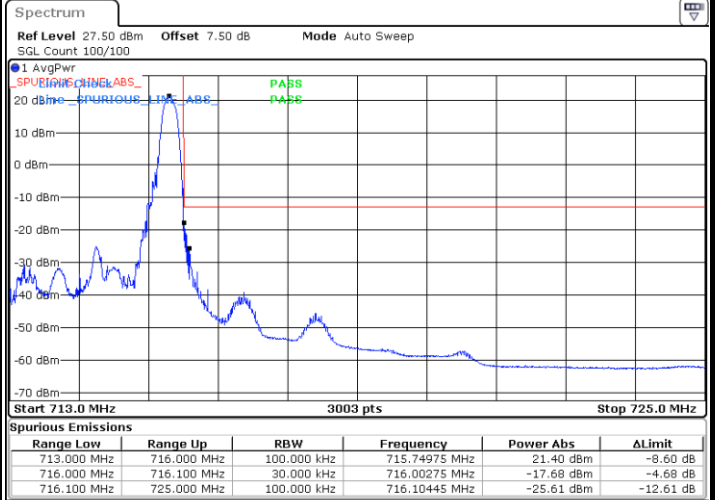
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



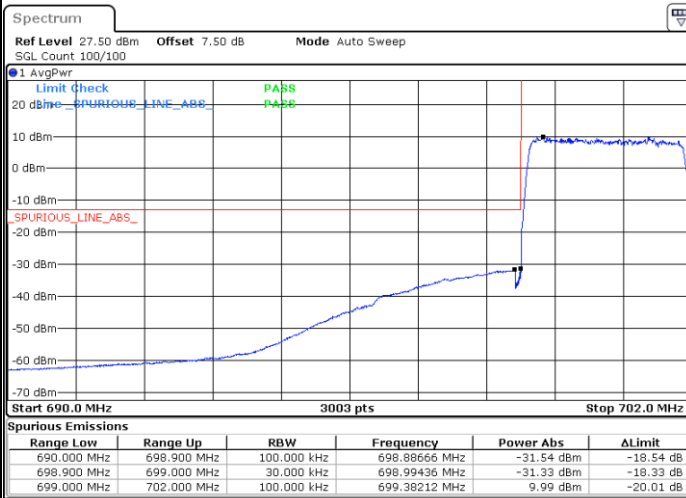
Date: 23.NOV.2023 17:38:14

Highest Band Edge / 1 RB



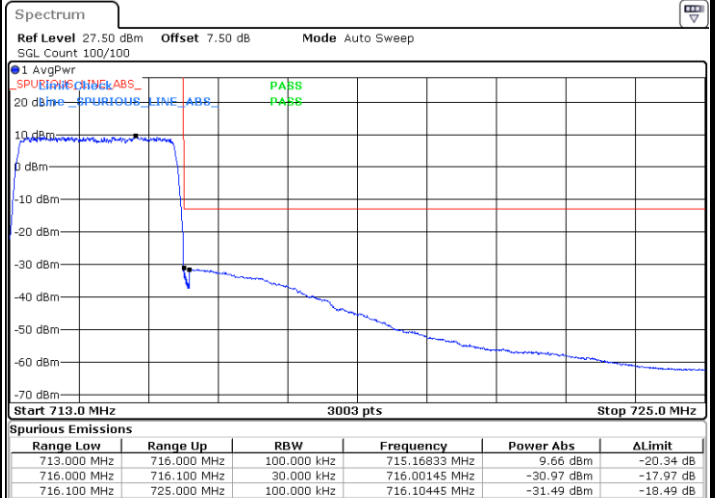
Date: 23.NOV.2023 17:48:24

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:41:10

Highest Band Edge / Full RB

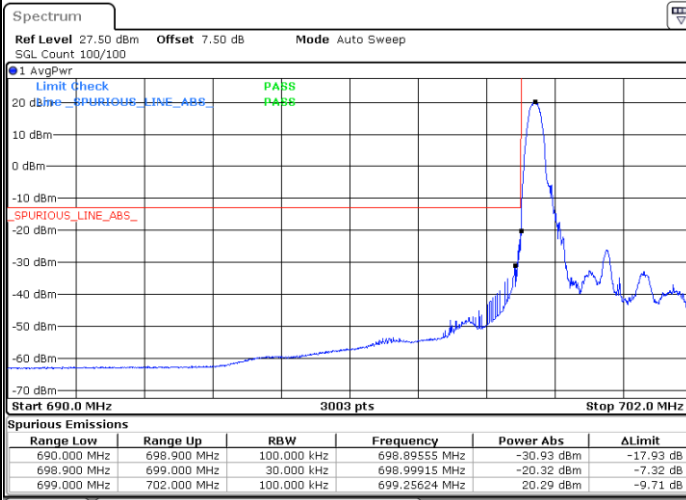


Date: 23.NOV.2023 17:51:20



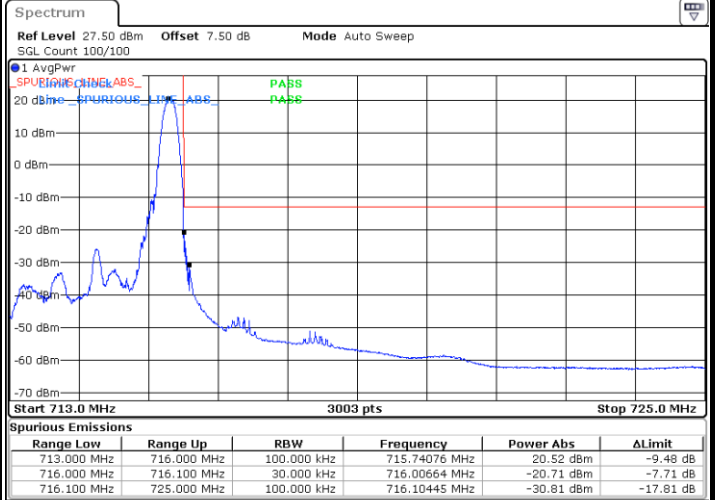
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



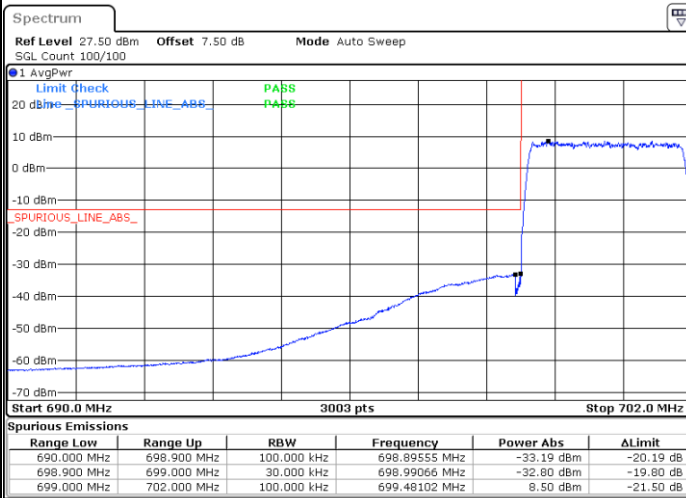
Date: 23.NOV.2023 17:39:13

Highest Band Edge / 1 RB



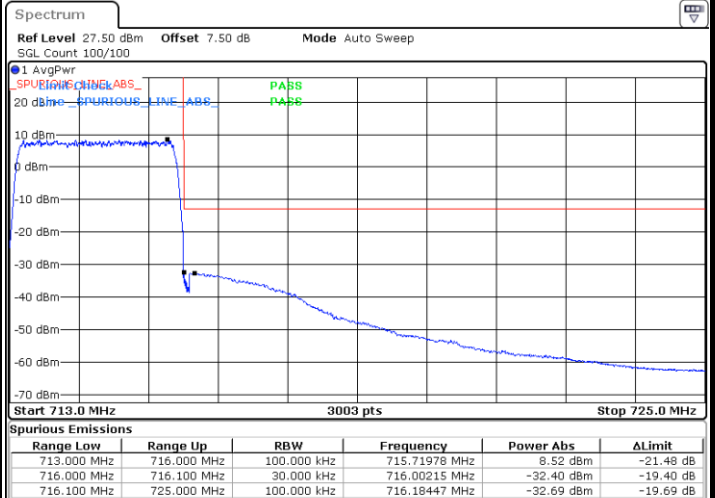
Date: 23.NOV.2023 17:49:23

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:42:08

Highest Band Edge / Full RB

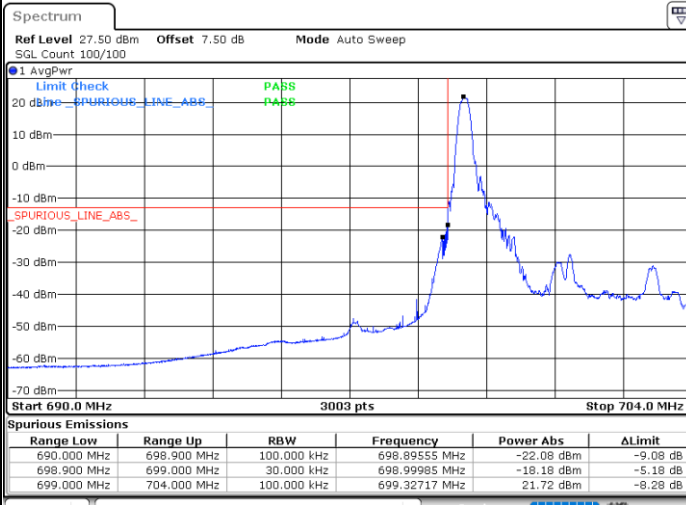


Date: 23.NOV.2023 17:52:18



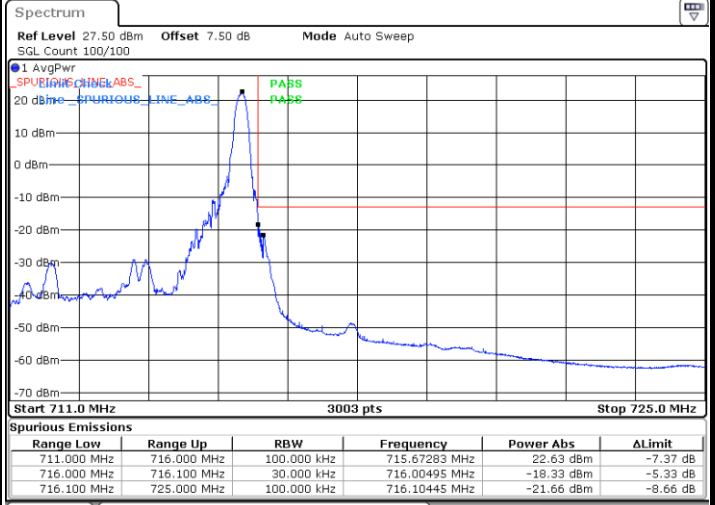
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



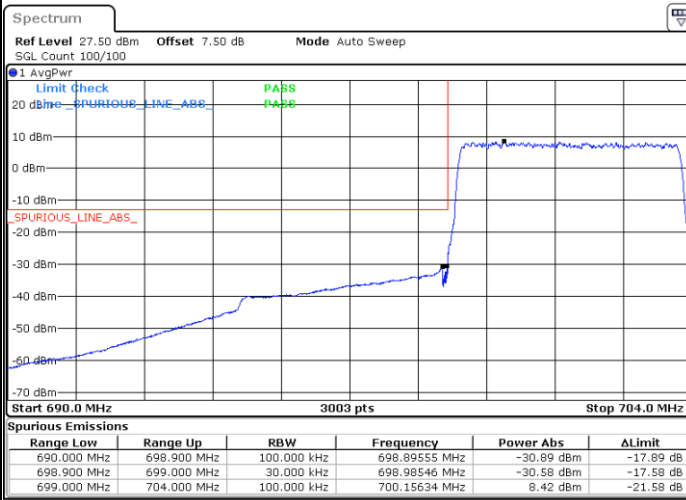
Date: 23.NOV.2023 17:55:37

Highest Band Edge / 1RB



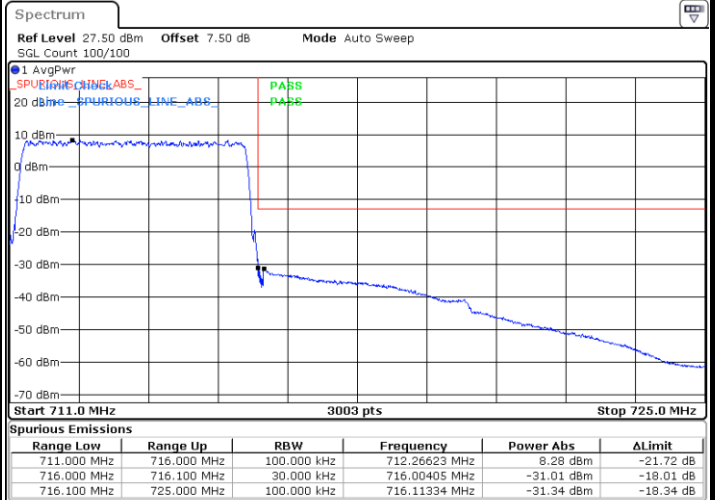
Date: 23.NOV.2023 18:05:47

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:58:32

Highest Band Edge / Full RB

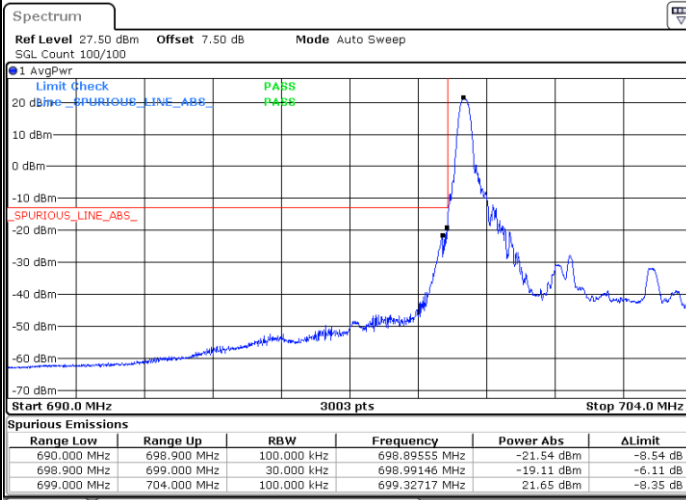


Date: 23.NOV.2023 18:08:42



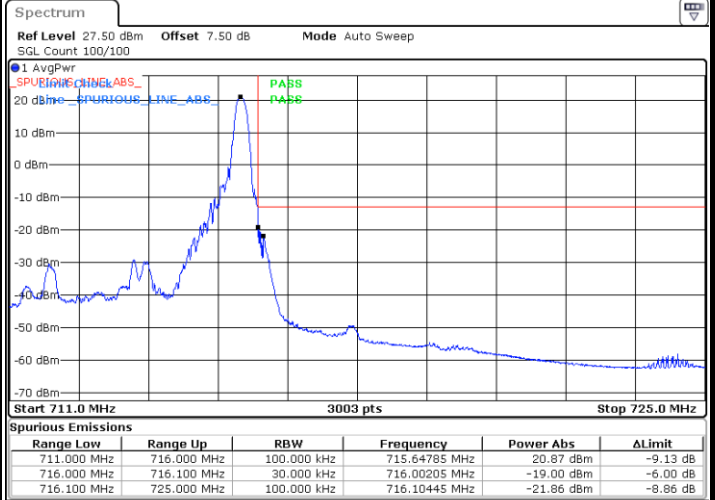
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



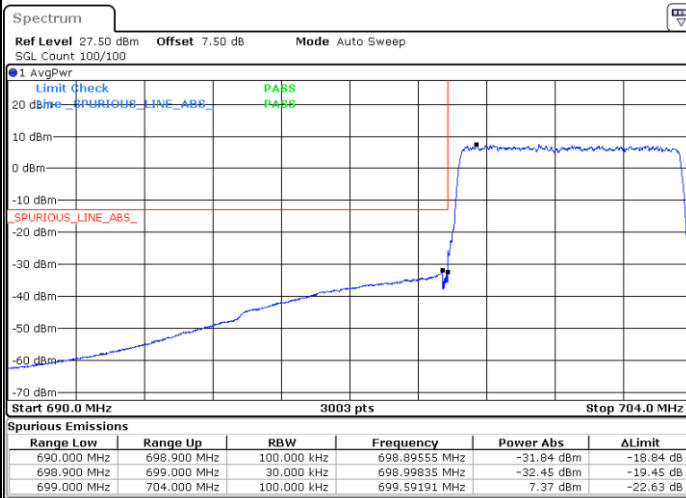
Date: 23.NOV.2023 17:56:36

Highest Band Edge / 1 RB



Date: 23.NOV.2023 18:06:46

Lowest Band Edge / Full RB



Date: 23.NOV.2023 17:59:31

Highest Band Edge / Full RB

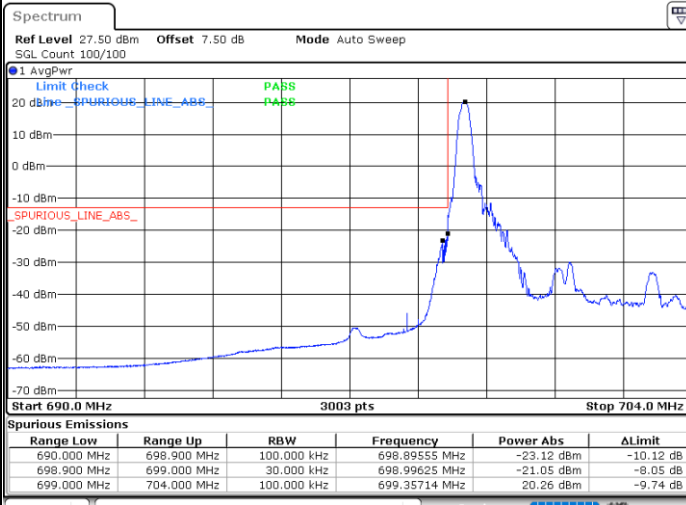


Date: 23.NOV.2023 18:09:41



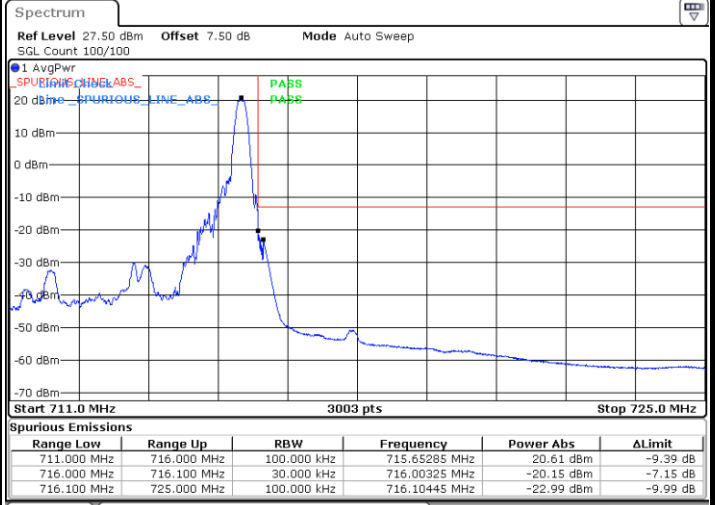
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



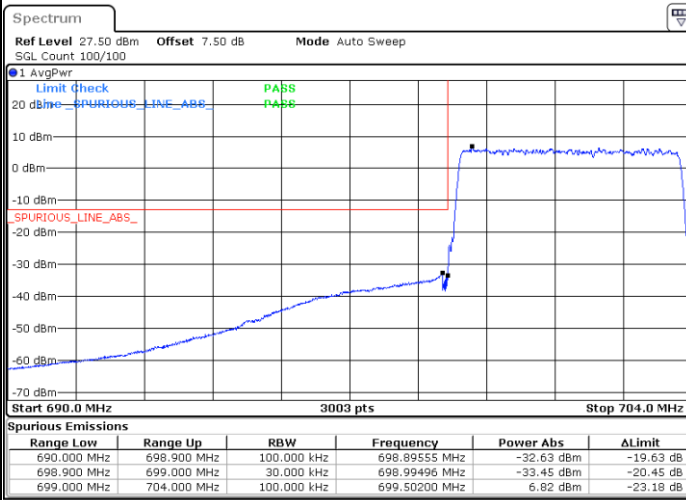
Date: 23.NOV.2023 17:57:34

Highest Band Edge / 1 RB



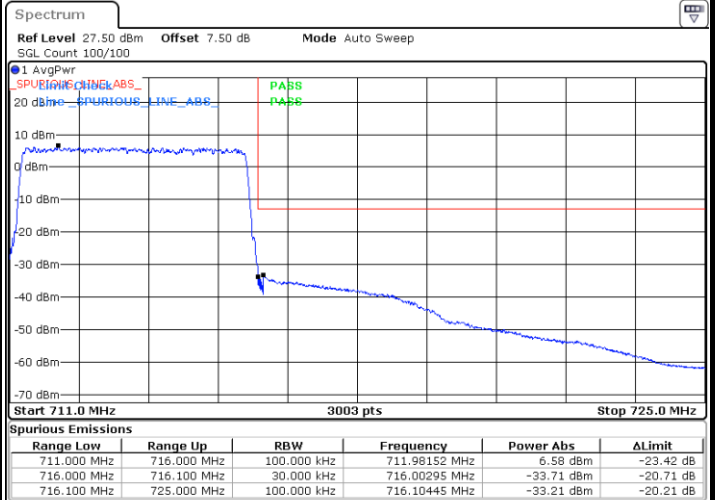
Date: 23.NOV.2023 18:07:44

Lowest Band Edge / Full RB



Date: 23.NOV.2023 18:00:29

Highest Band Edge / Full RB

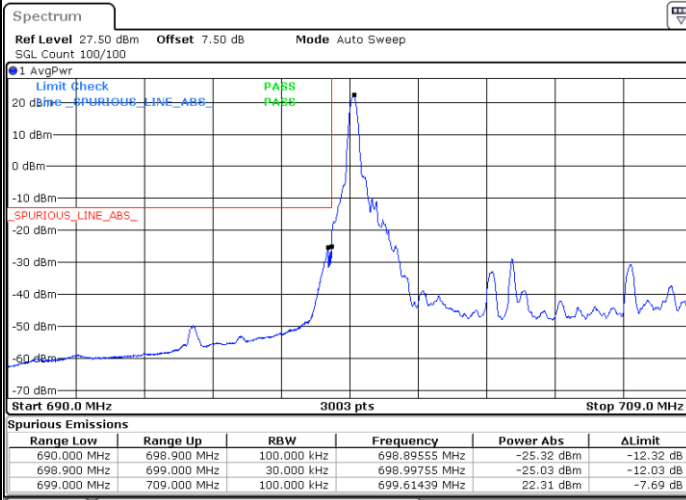


Date: 23.NOV.2023 18:10:39



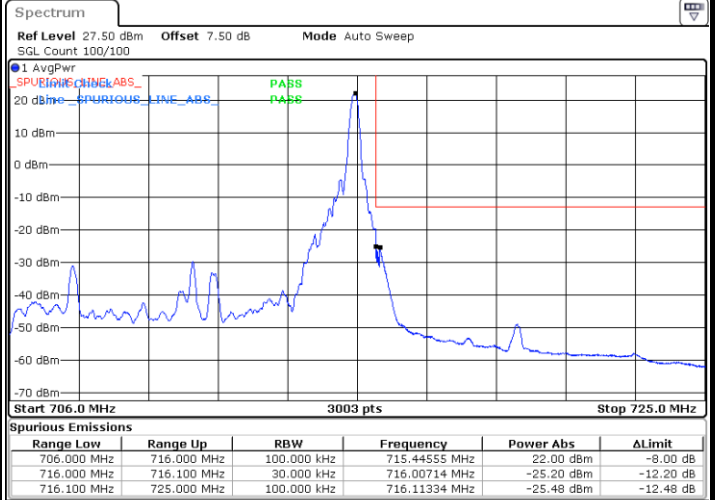
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



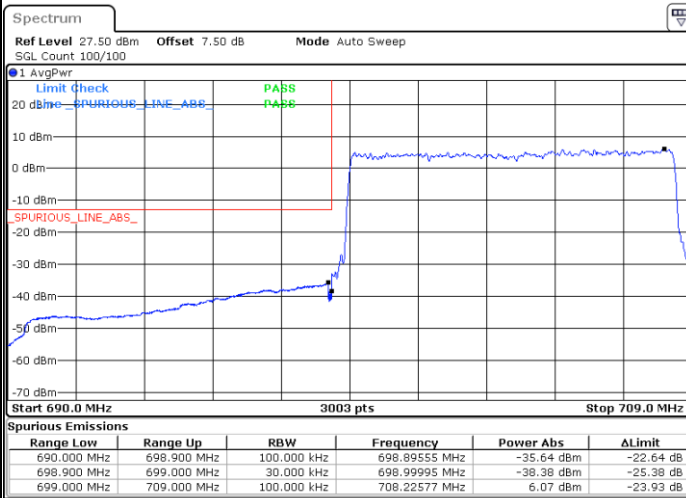
Date: 23.NOV.2023 18:14:30

Highest Band Edge / 1RB



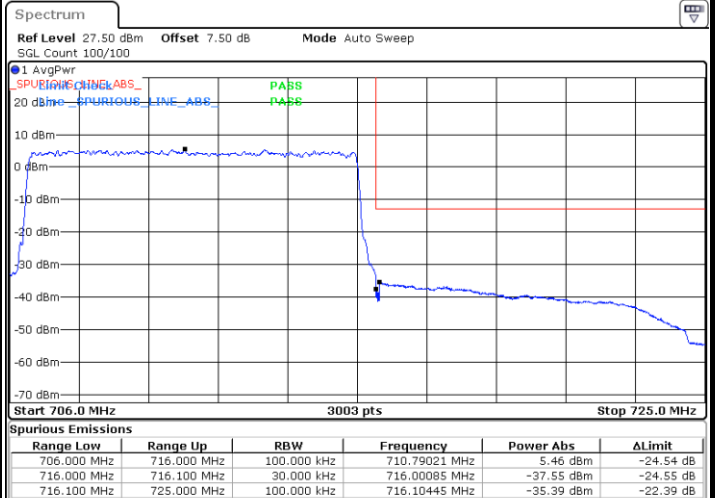
Date: 23.NOV.2023 18:24:40

Lowest Band Edge / Full RB



Date: 23.NOV.2023 18:17:26

Highest Band Edge / Full RB

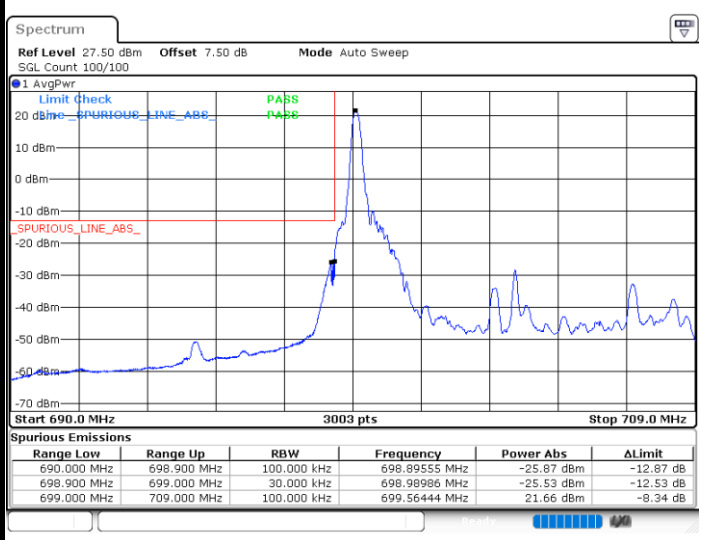


Date: 23.NOV.2023 18:27:36



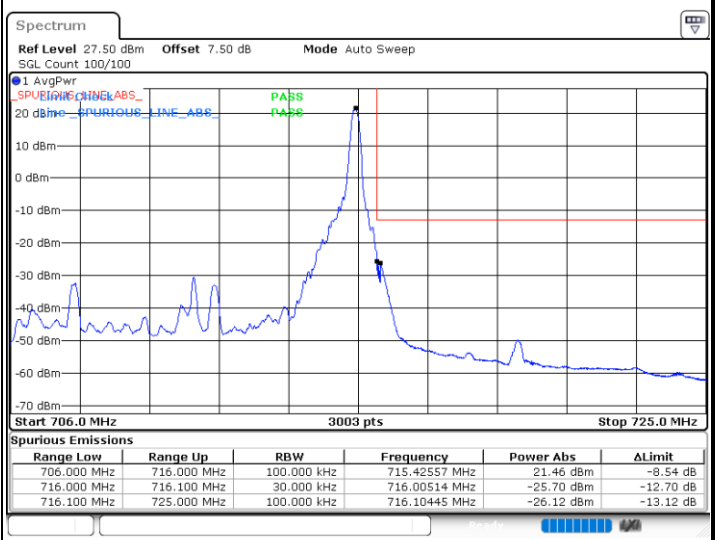
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



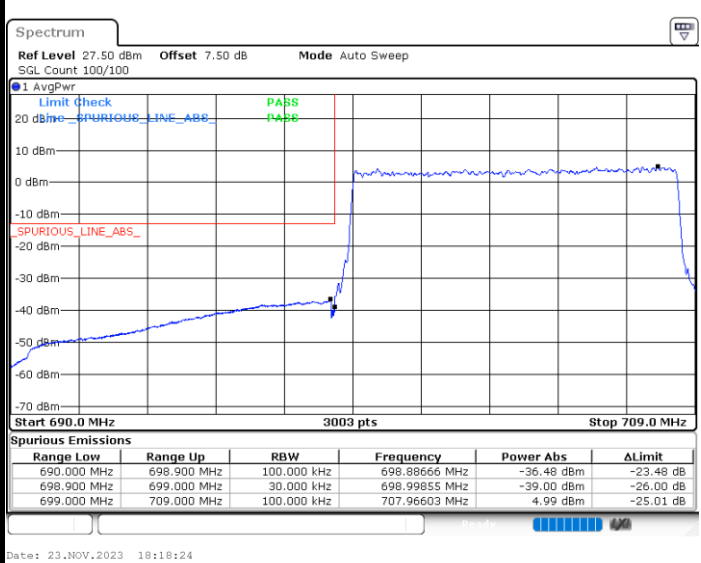
Date: 23.NOV.2023 18:15:29

Highest Band Edge / 1 RB



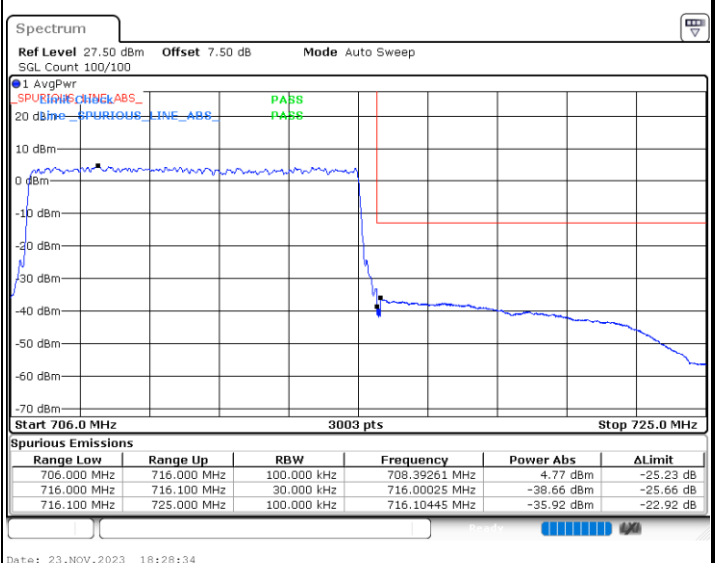
Date: 23.NOV.2023 18:25:39

Lowest Band Edge / Full RB



Date: 23.NOV.2023 18:18:24

Highest Band Edge / Full RB

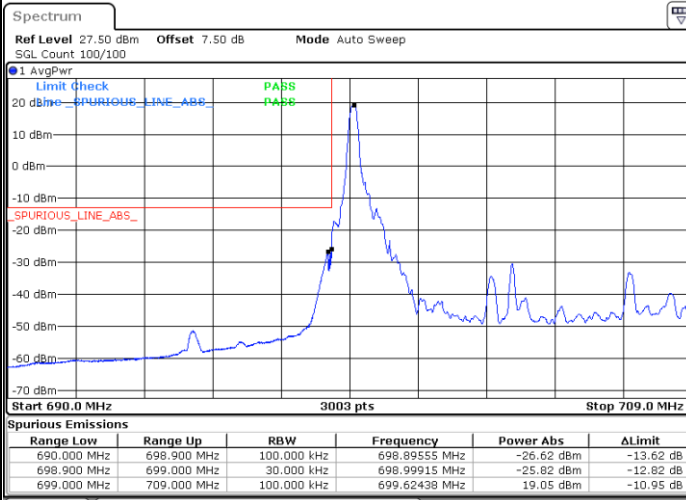


Date: 23.NOV.2023 18:28:34



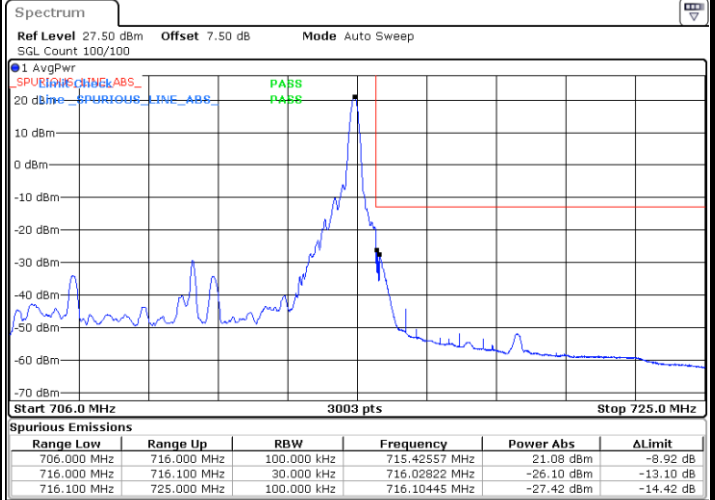
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



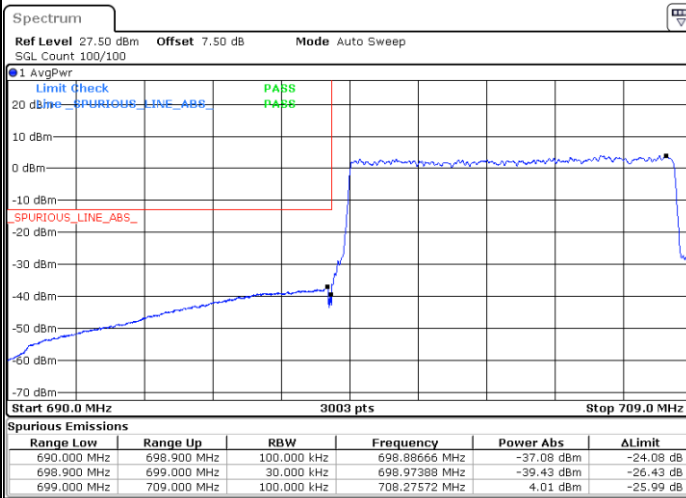
Date: 23.NOV.2023 18:16:27

Highest Band Edge / 1 RB



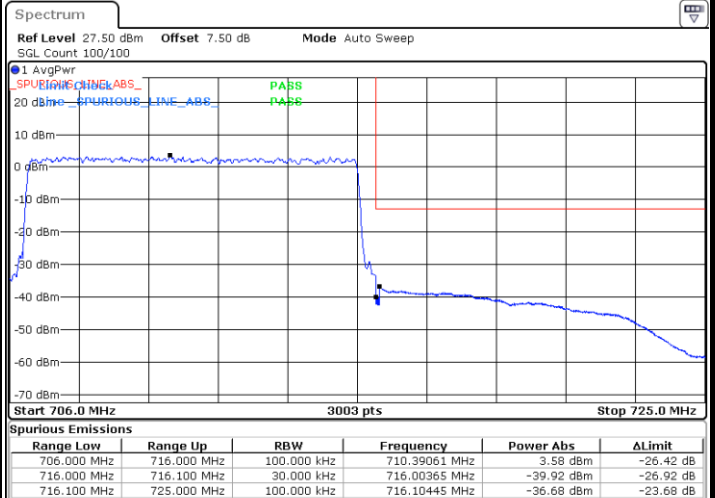
Date: 23.NOV.2023 18:26:37

Lowest Band Edge / Full RB



Date: 23.NOV.2023 18:19:22

Highest Band Edge / Full RB



Date: 23.NOV.2023 18:29:32



Conducted Spurious Emission

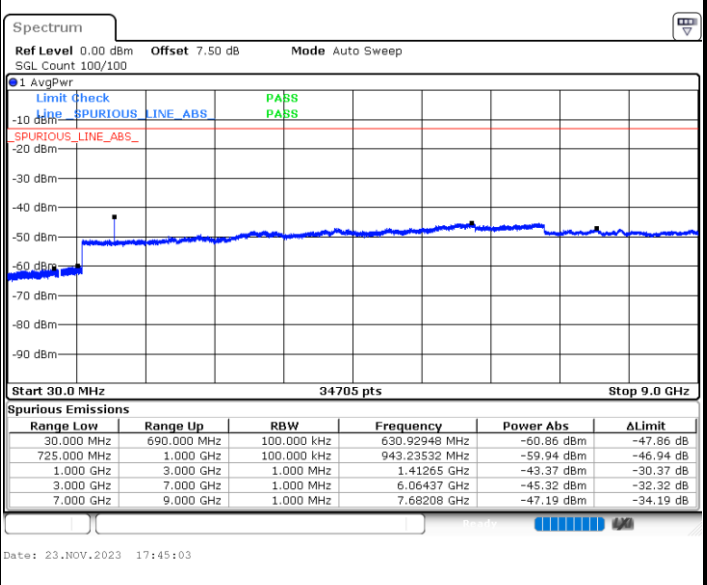
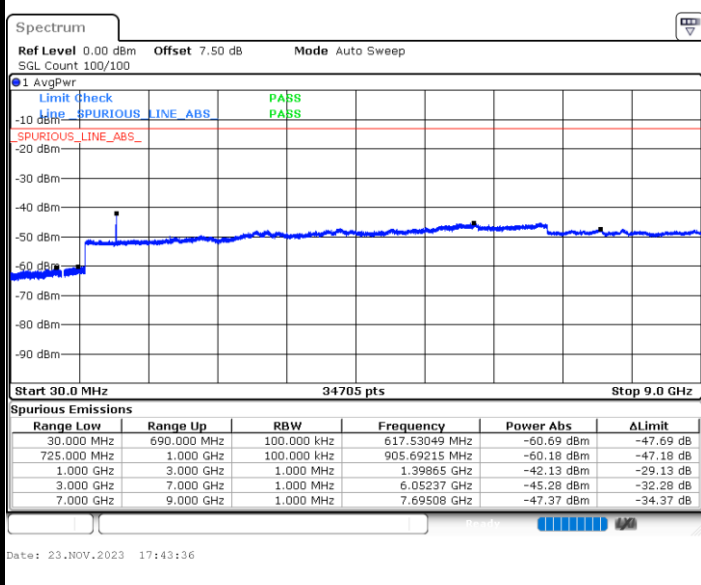




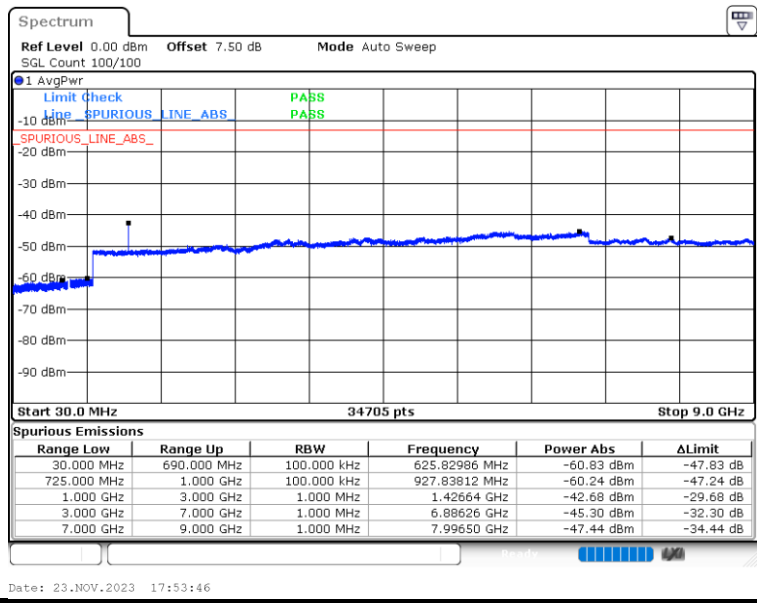
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

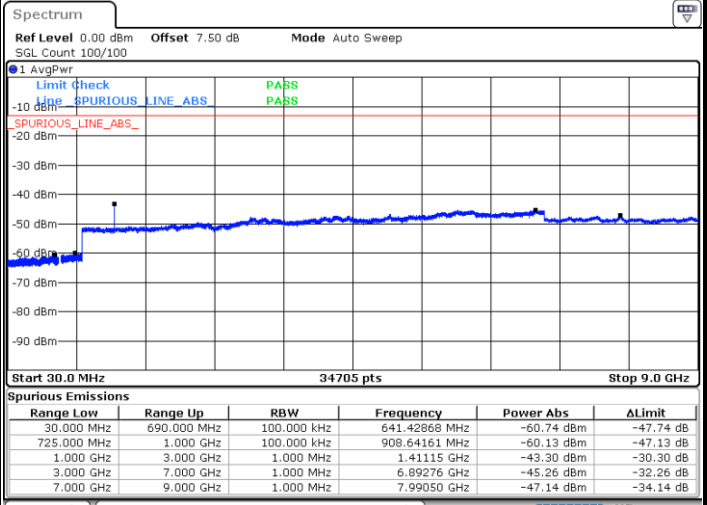
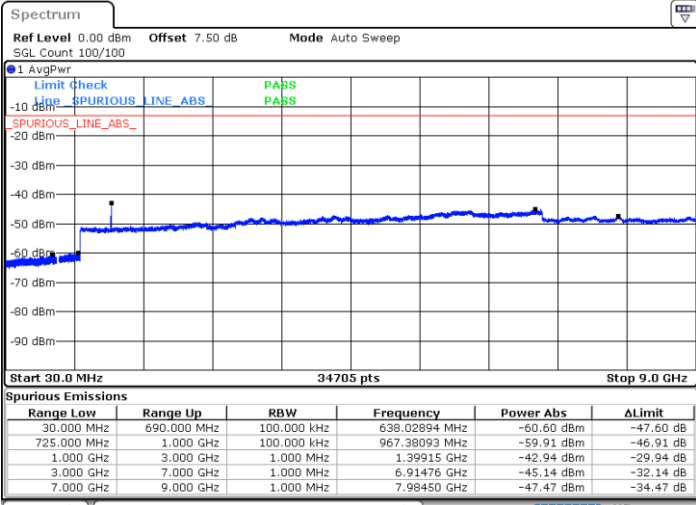




LTE Band 12 / 5MHz

Lowest Channel / QPSK

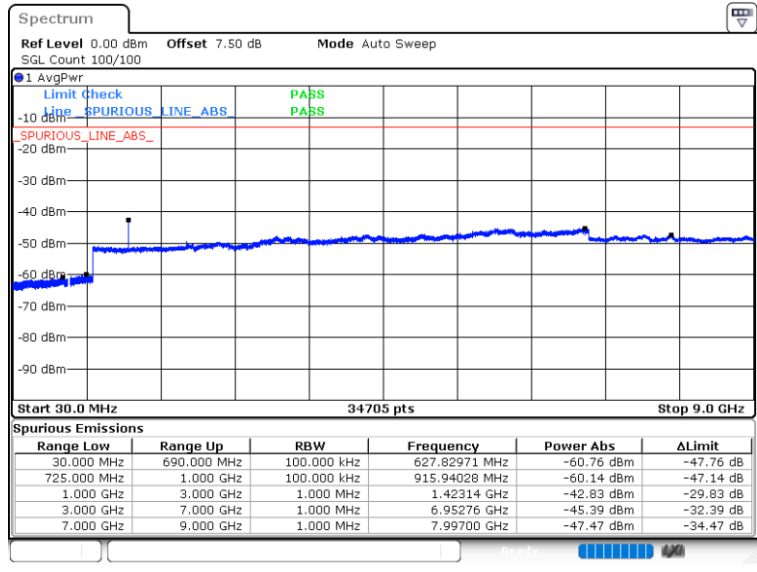
Middle Channel / QPSK



Date: 23.NOV.2023 18:01:57

Date: 23.NOV.2023 18:03:24

Highest Channel / QPSK



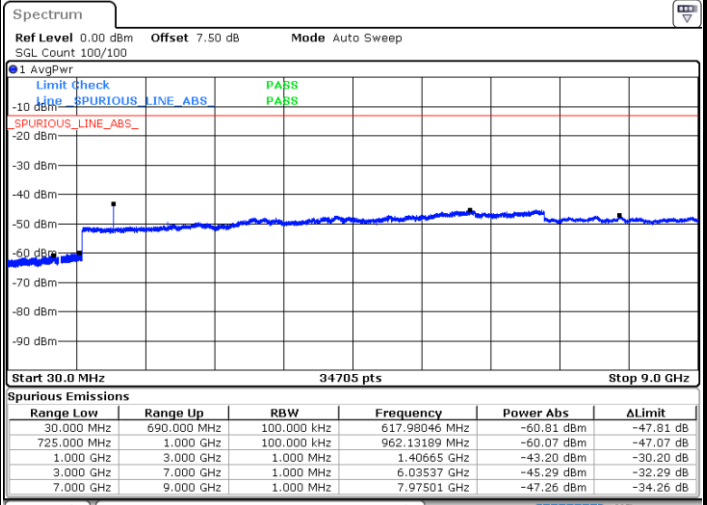
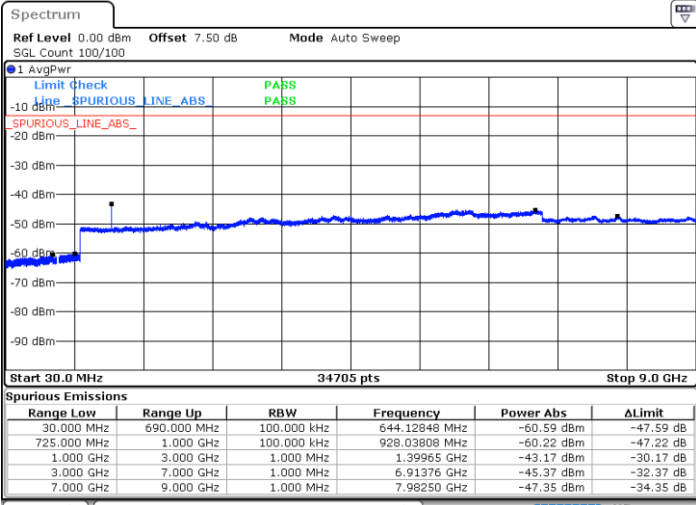
Date: 23.NOV.2023 18:12:07



LTE Band 12 / 10MHz

Lowest Channel / QPSK

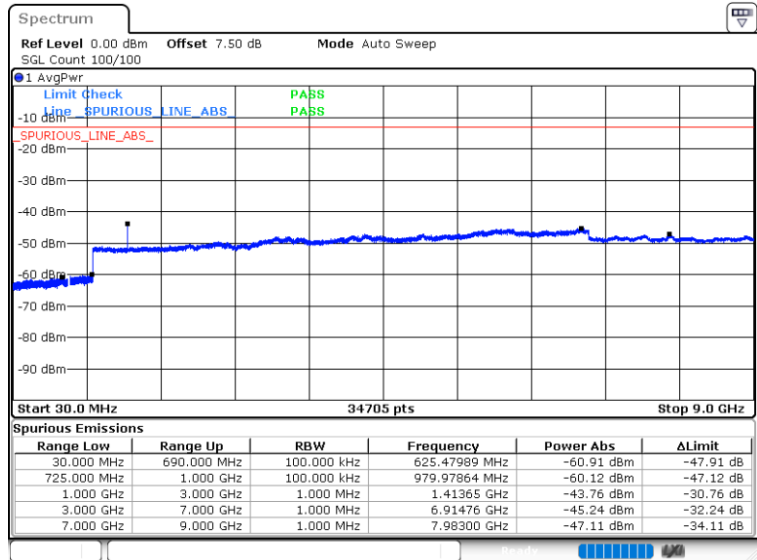
Middle Channel / QPSK



Date: 23.NOV.2023 18:20:50

Date: 23.NOV.2023 18:22:17

Highest Channel / QPSK



Date: 23.NOV.2023 18:31:00



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	0.0016	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0064	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0058	
20	Maximum Voltage	0.0064	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. 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	5.16	6.06	6.23	PASS

