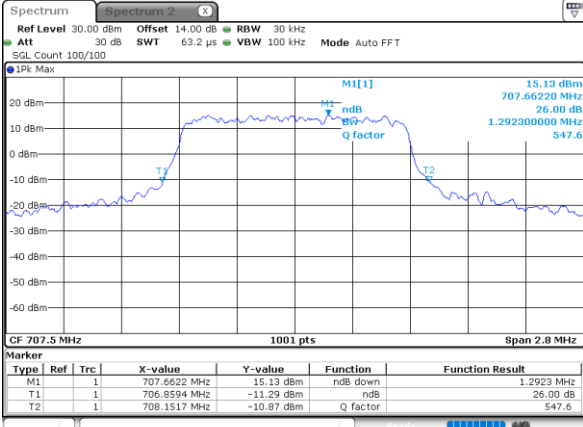




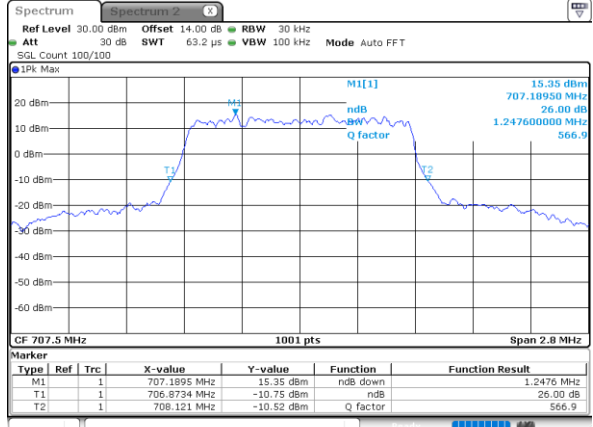
LTE Band 12

Middle Channel / 1.4MHz / QPSK



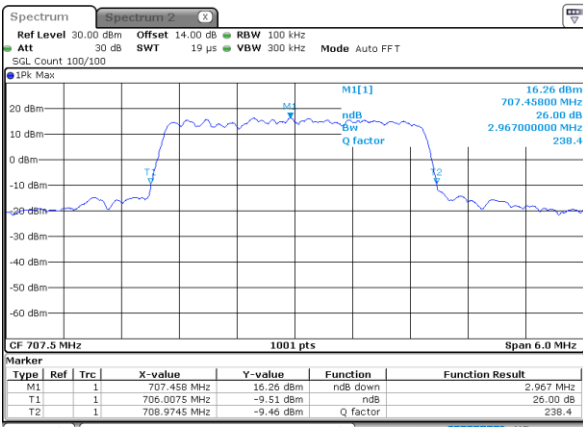
Date: 25.OCT.2023 11:14:15

Middle Channel / 1.4MHz / 16QAM



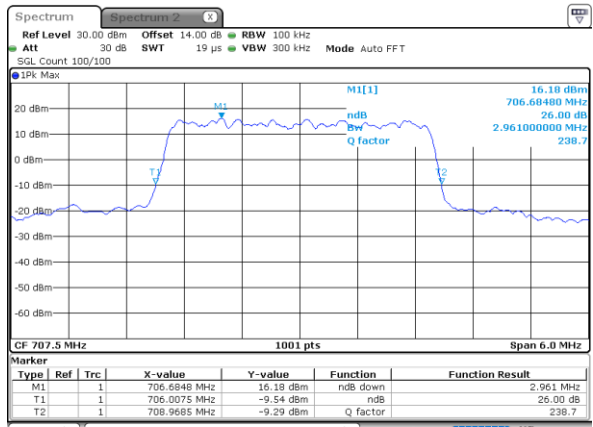
Date: 25.OCT.2023 11:14:59

Middle Channel / 3MHz / QPSK



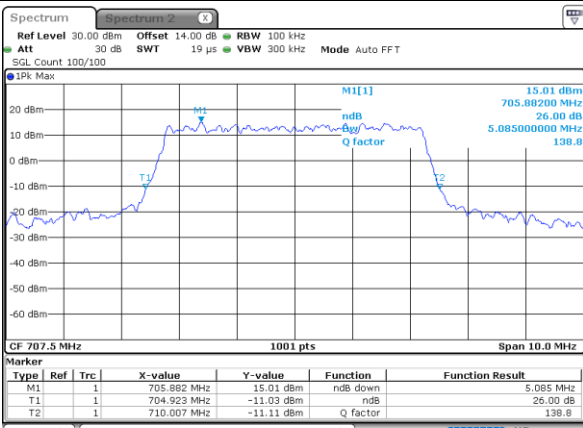
Date: 25.OCT.2023 11:14:21

Middle Channel / 3MHz / 16QAM



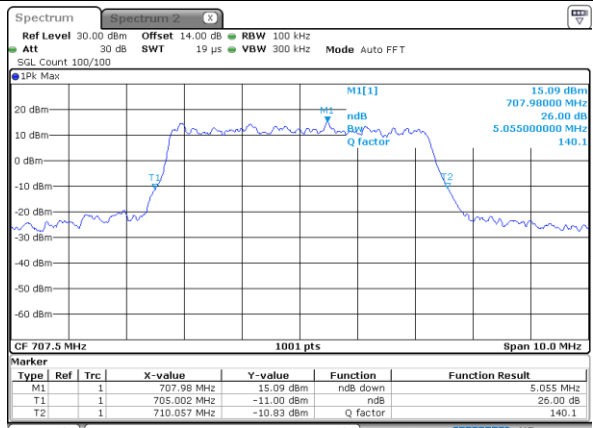
Date: 25.OCT.2023 11:14:55

Middle Channel / 5MHz / QPSK



Date: 25.OCT.2023 12:12:26

Middle Channel / 5MHz / 16QAM

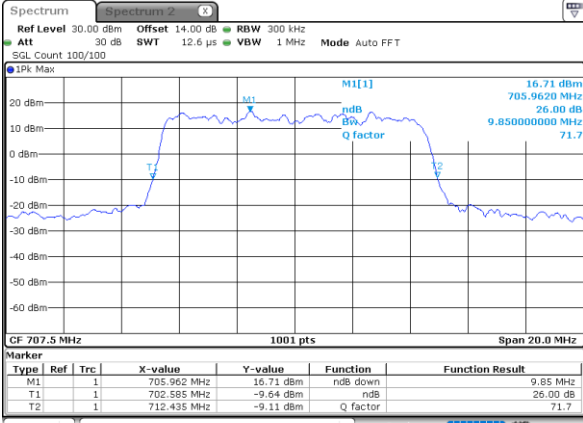


Date: 25.OCT.2023 12:13:15



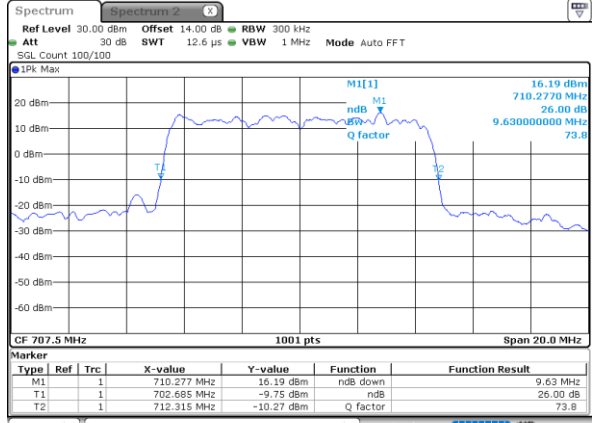
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 25.OCT.2023 12:36:37

Middle Channel / 10MHz / 16QAM



Date: 25.OCT.2023 12:37:14



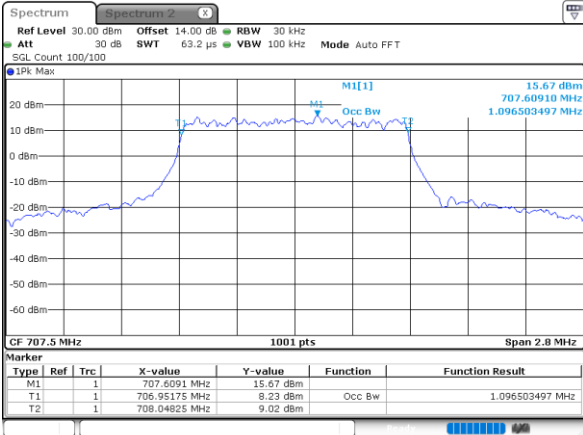
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.10	1.09	2.72	2.72	4.52	4.50	9.07	9.03	-	-	-	-



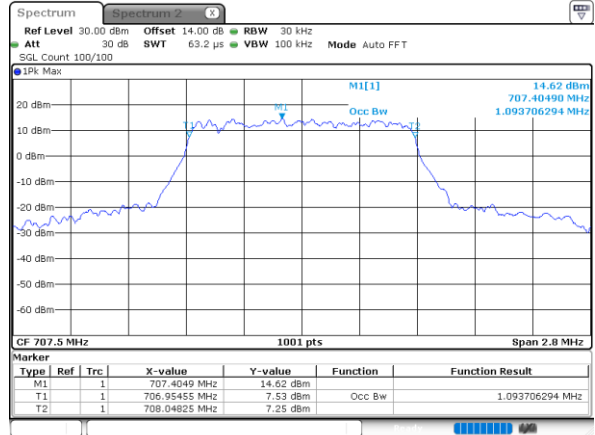
LTE Band 12

Middle Channel / 1.4MHz / QPSK



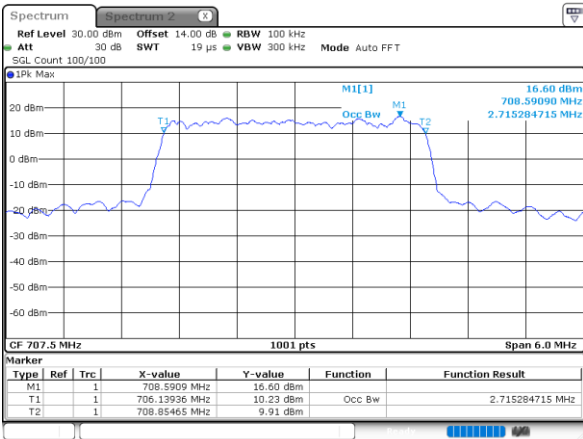
Date: 25.OCT.2023 11:13:59

Middle Channel / 1.4MHz / 16QAM



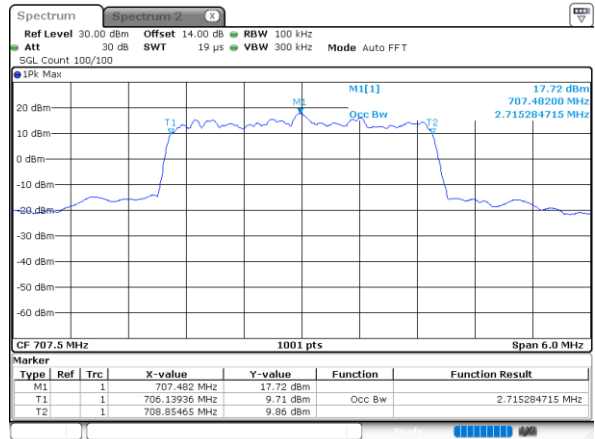
Date: 25.OCT.2023 11:14:44

Middle Channel / 3MHz / QPSK



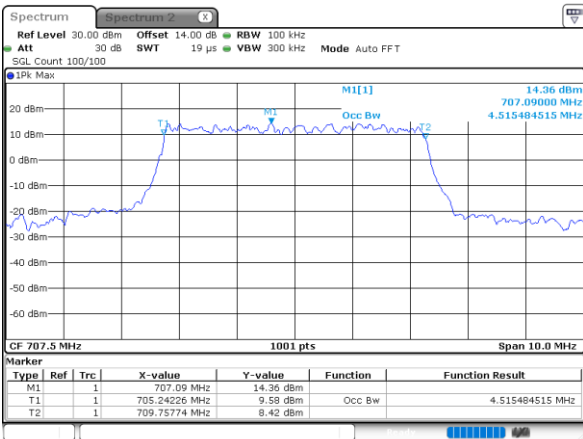
Date: 25.OCT.2023 11:44:10

Middle Channel / 3MHz / 16QAM



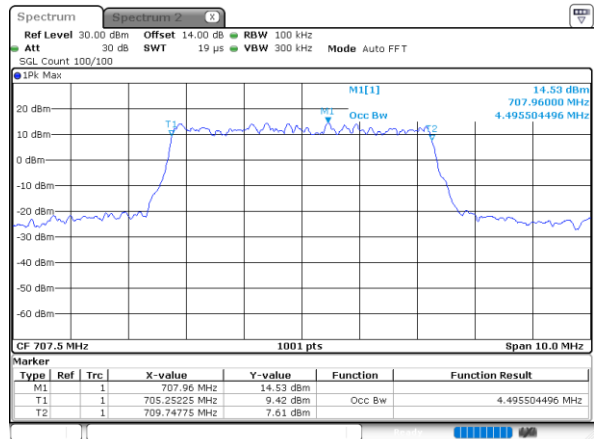
Date: 25.OCT.2023 11:44:41

Middle Channel / 5MHz / QPSK



Date: 25.OCT.2023 12:12:08

Middle Channel / 5MHz / 16QAM

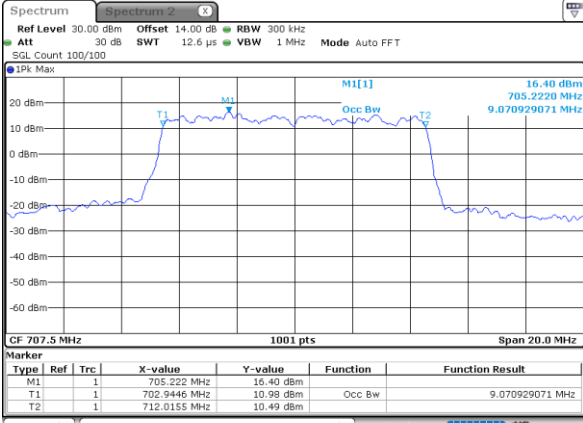


Date: 25.OCT.2023 12:13:01



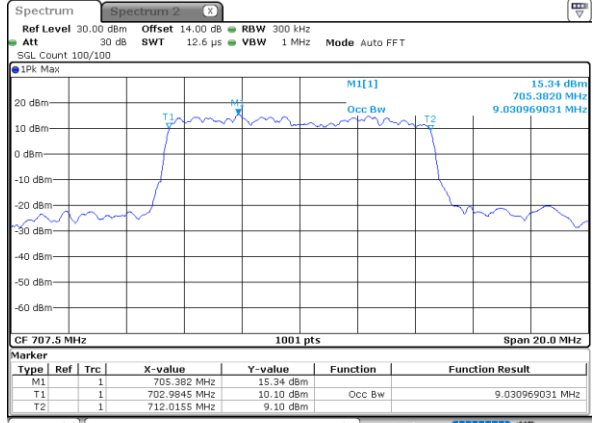
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 25.OCT.2023 12:36:24

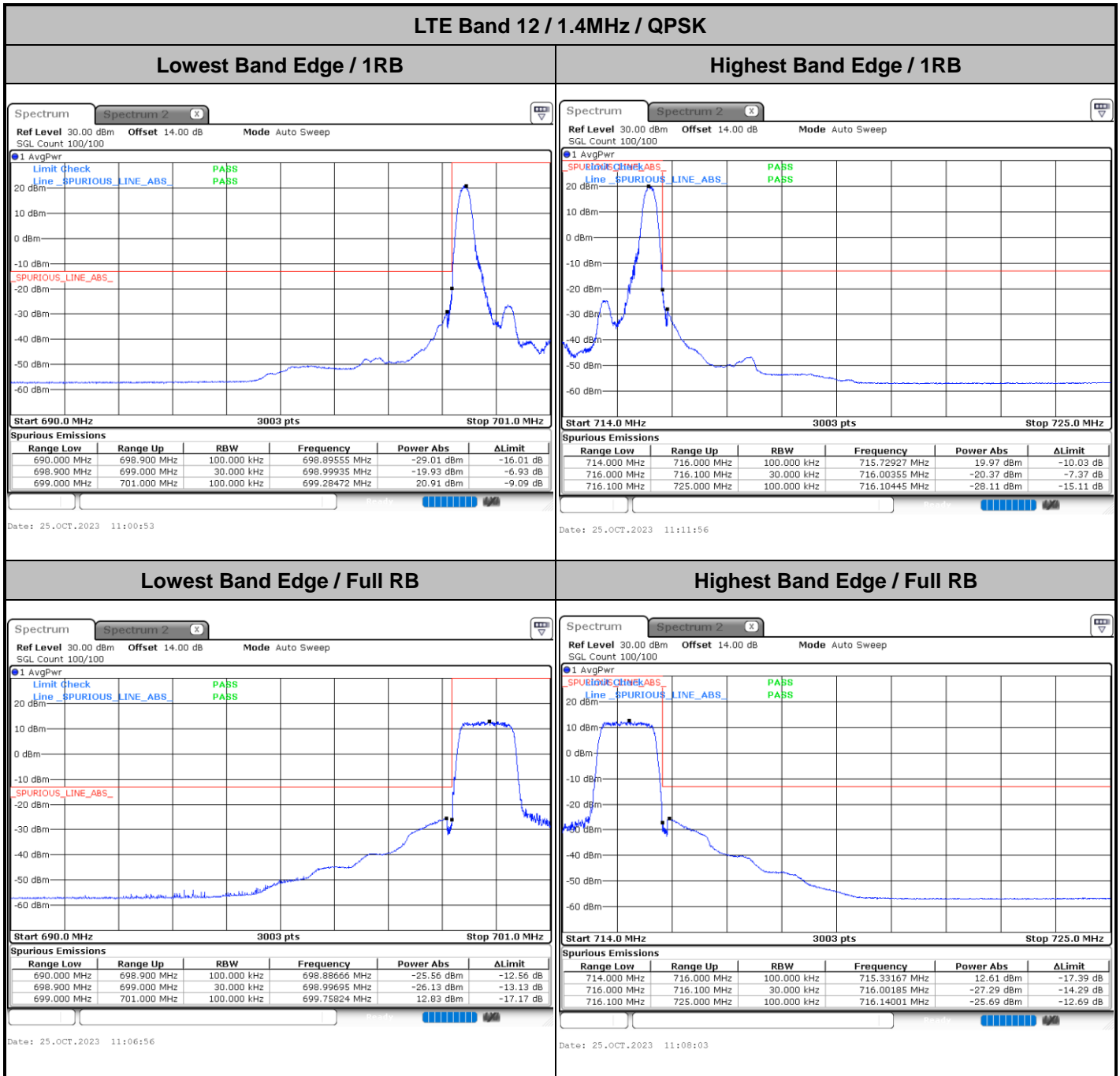
Middle Channel / 10MHz / 16QAM



Date: 25.OCT.2023 12:37:01



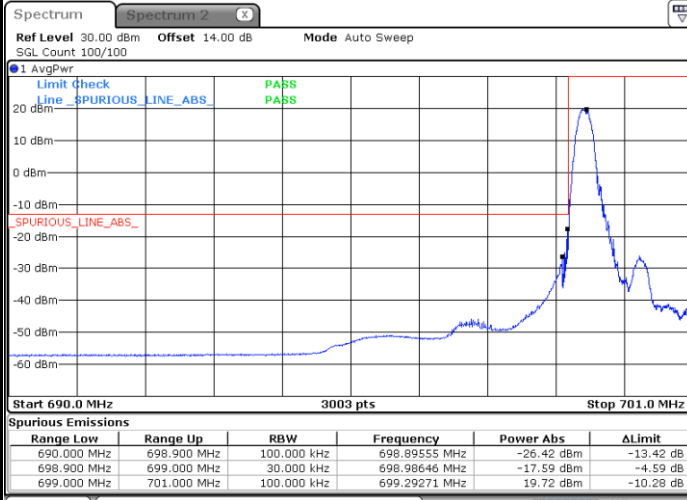
Conducted Band Edge





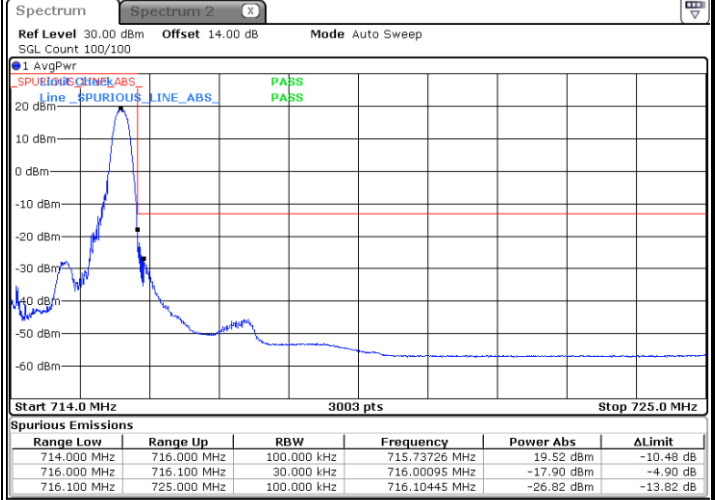
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



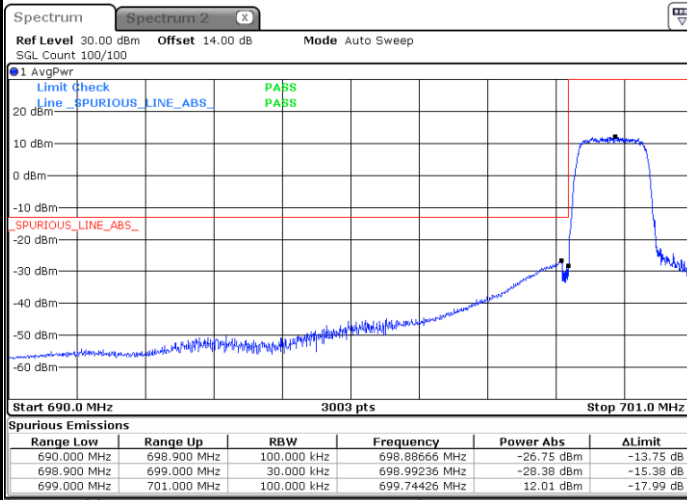
Date: 25.OCT.2023 11:02:57

Highest Band Edge / 1 RB



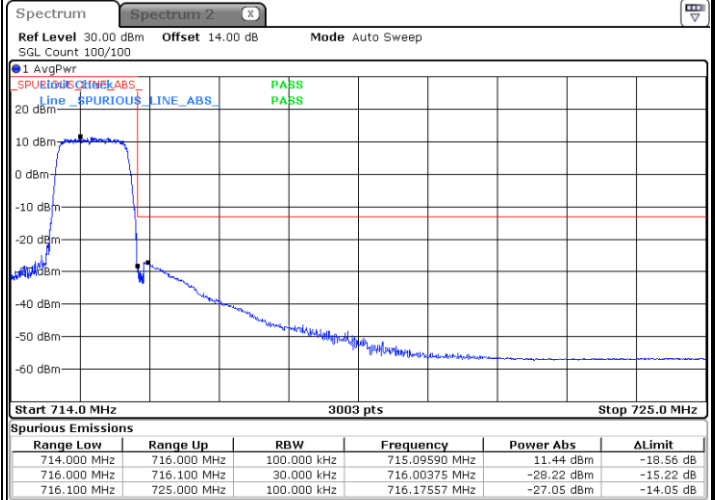
Date: 25.OCT.2023 11:11:10

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:06:08

Highest Band Edge / Full RB

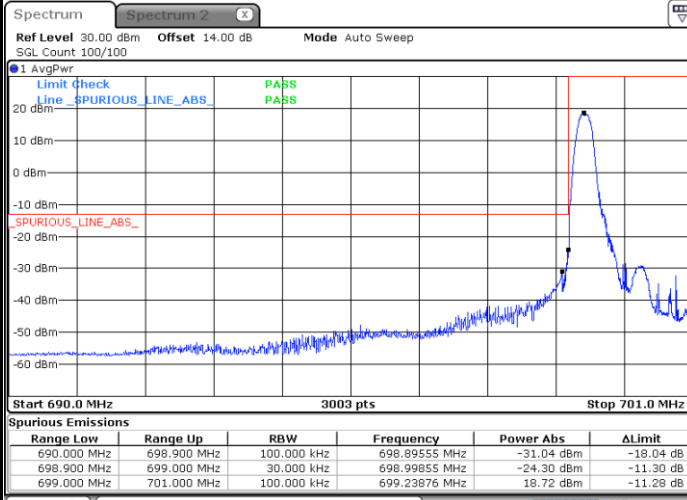


Date: 25.OCT.2023 11:08:44



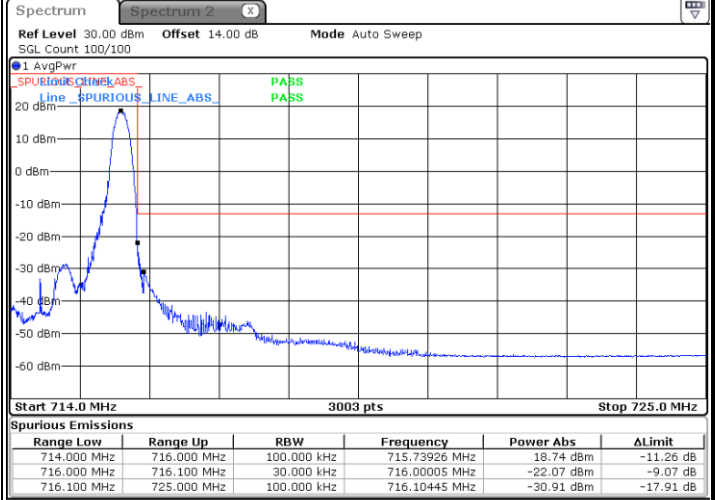
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



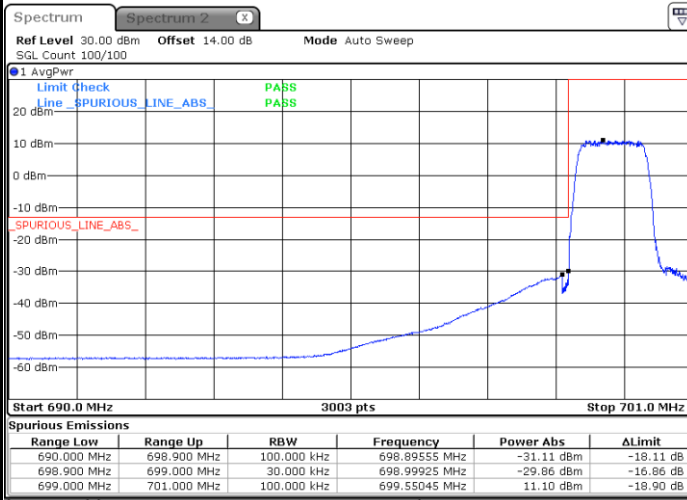
Date: 25.OCT.2023 11:04:06

Highest Band Edge / 1 RB



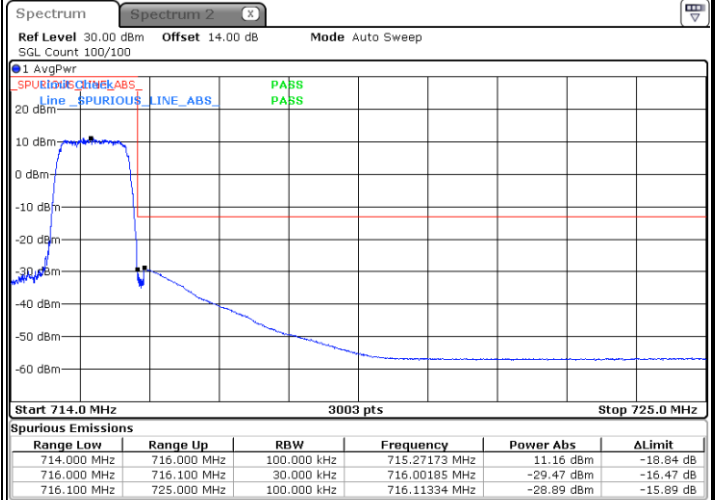
Date: 25.OCT.2023 11:10:23

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:05:17

Highest Band Edge / Full RB

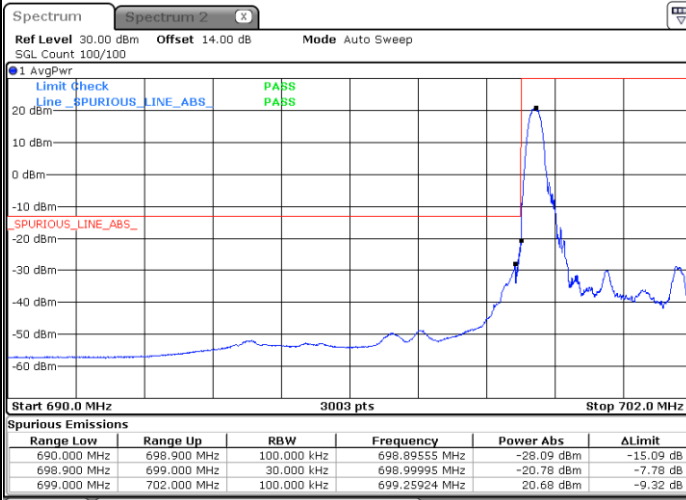


Date: 25.OCT.2023 11:09:31



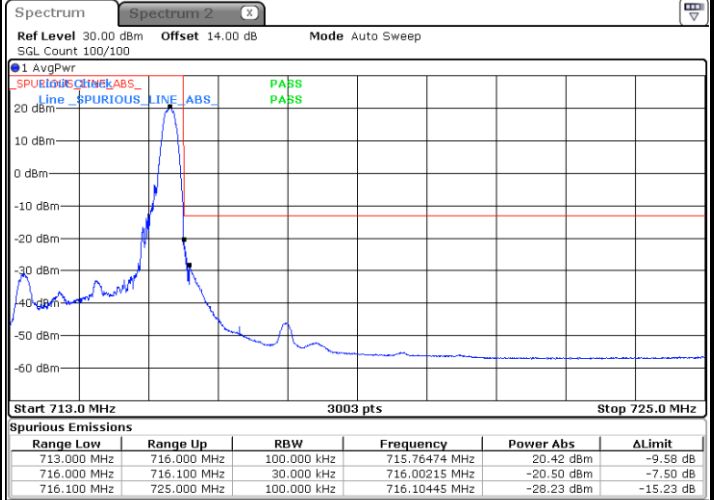
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



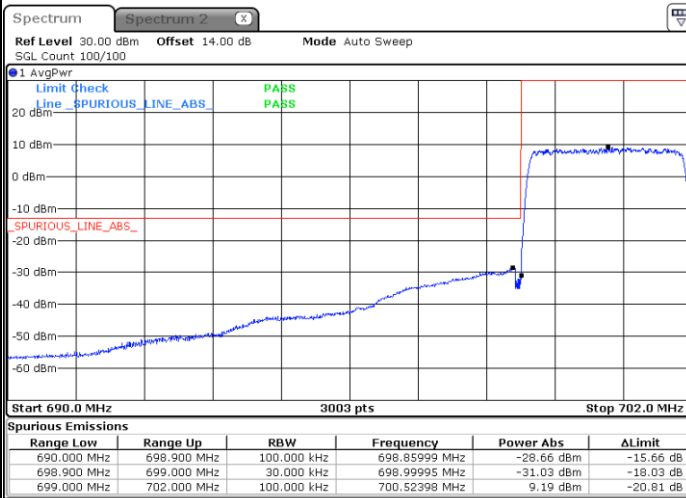
Date: 25.OCT.2023 11:32:23

Highest Band Edge / 1RB



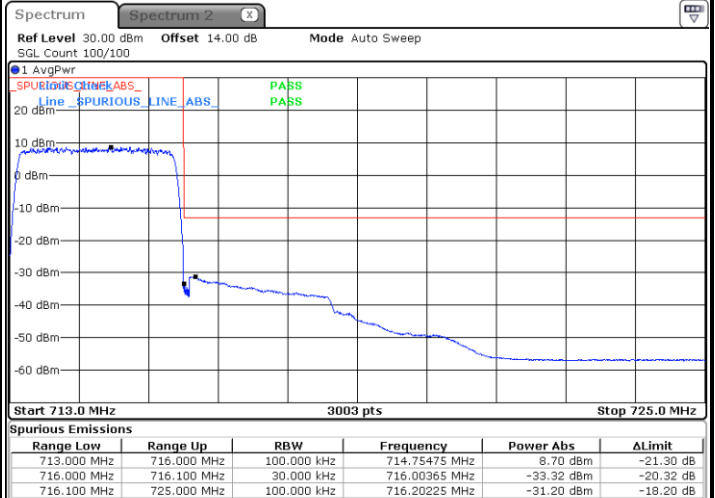
Date: 25.OCT.2023 11:40:11

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:35:21

Highest Band Edge / Full RB

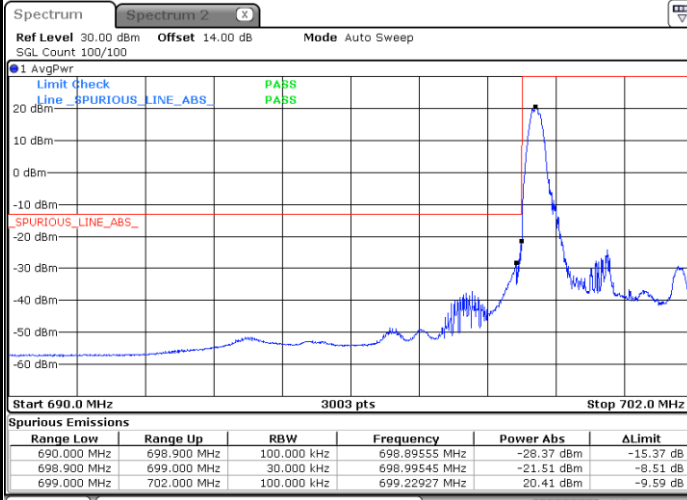


Date: 25.OCT.2023 11:39:20



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



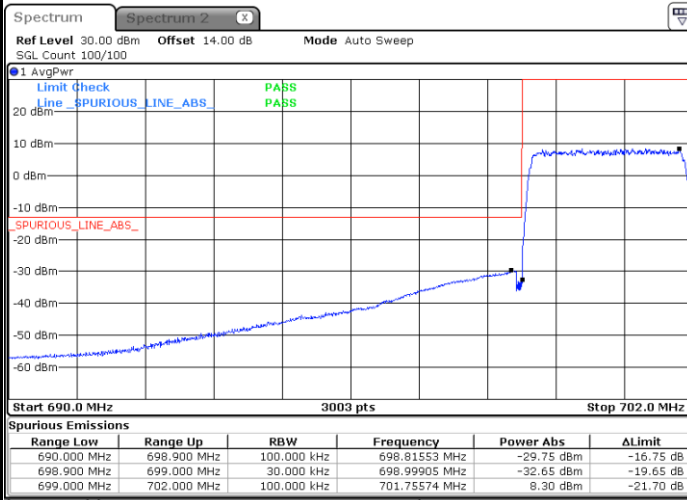
Date: 25.OCT.2023 11:33:09

Highest Band Edge / 1 RB



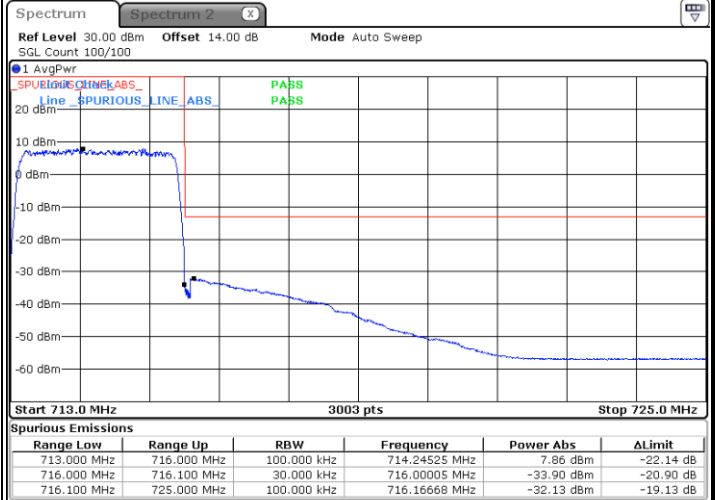
Date: 25.OCT.2023 11:40:57

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:36:12

Highest Band Edge / Full RB

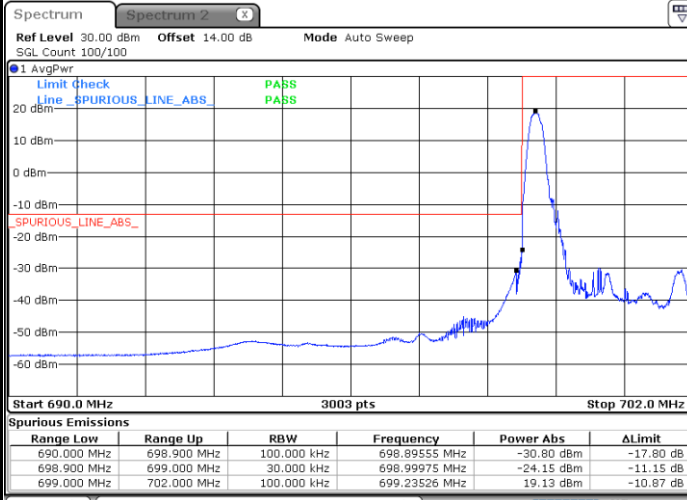


Date: 25.OCT.2023 11:38:38



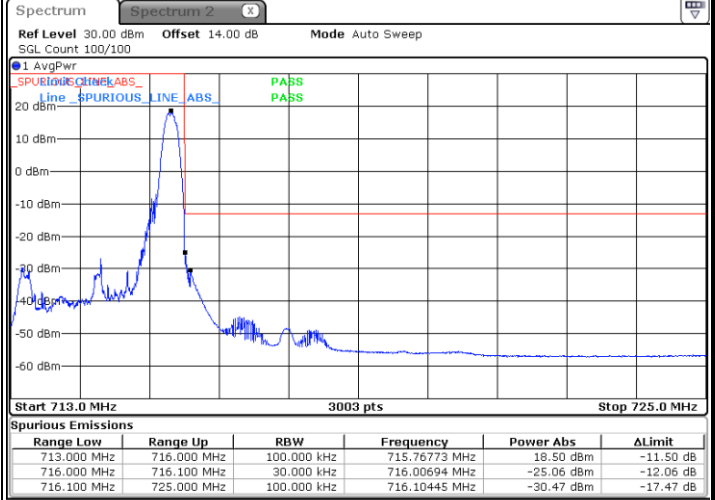
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



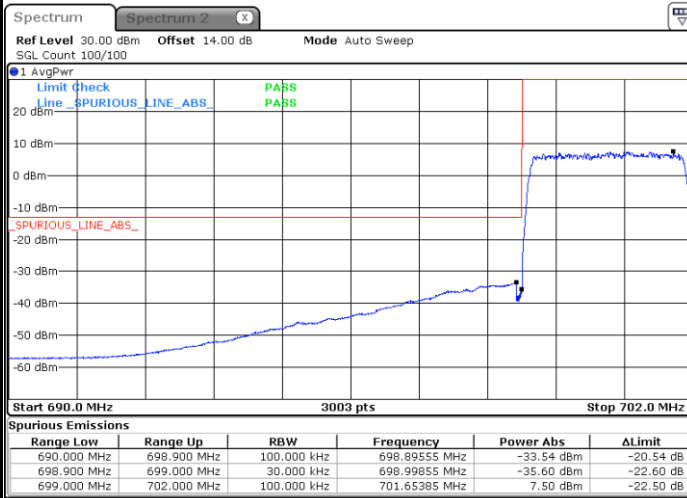
Date: 25.OCT.2023 11:33:50

Highest Band Edge / 1 RB



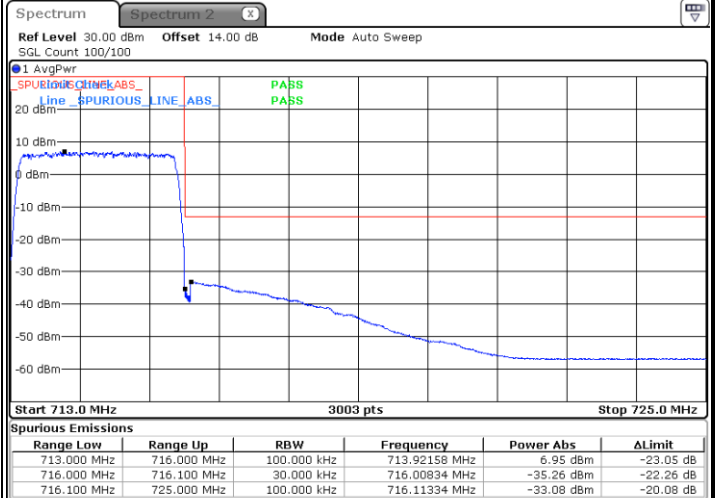
Date: 25.OCT.2023 11:41:48

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:36:57

Highest Band Edge / Full RB

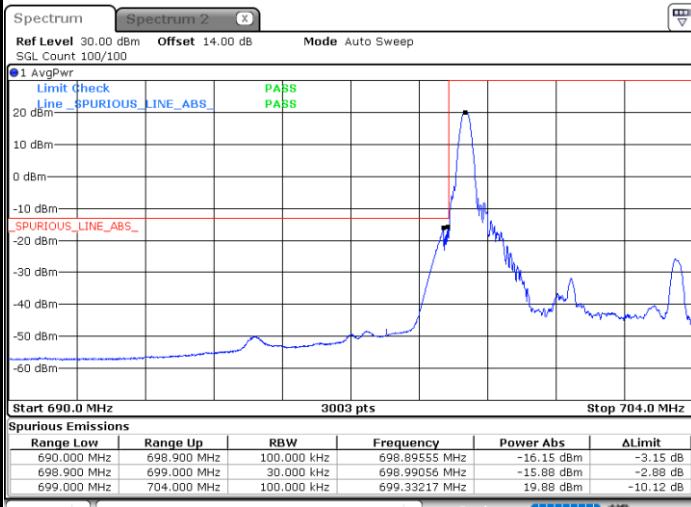


Date: 25.OCT.2023 11:37:56



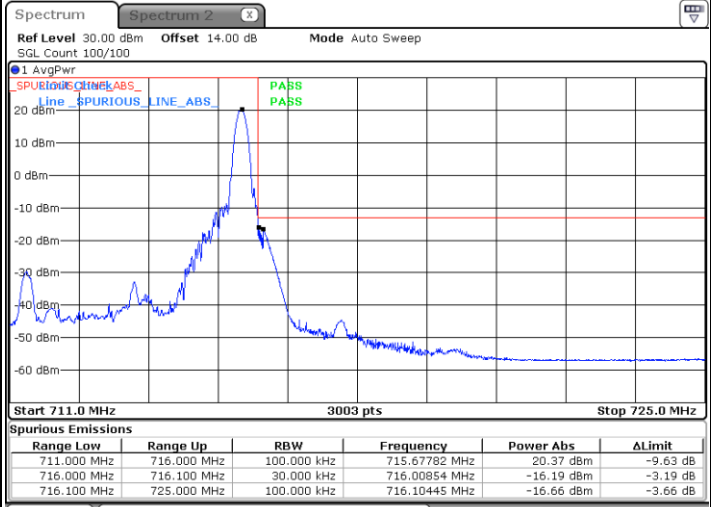
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



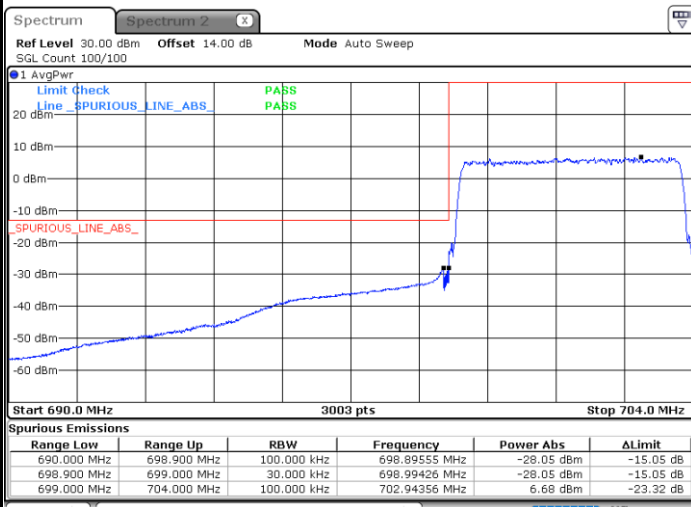
Date: 25.OCT.2023 11:46:24

Highest Band Edge / 1RB



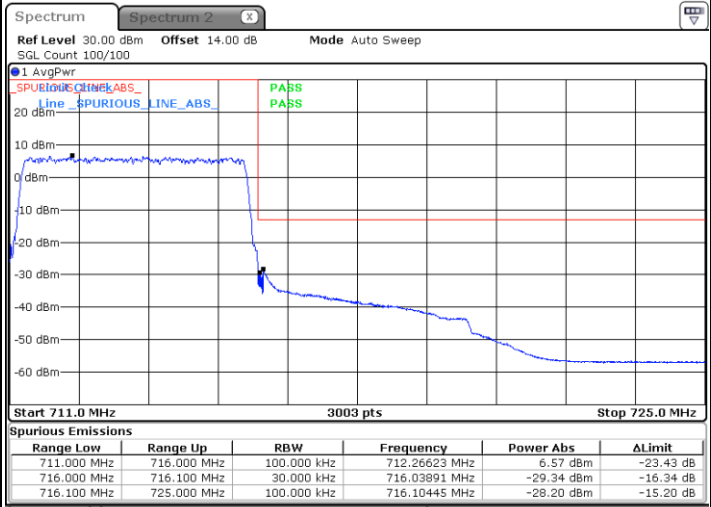
Date: 25.OCT.2023 12:08:06

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:49:21

Highest Band Edge / Full RB

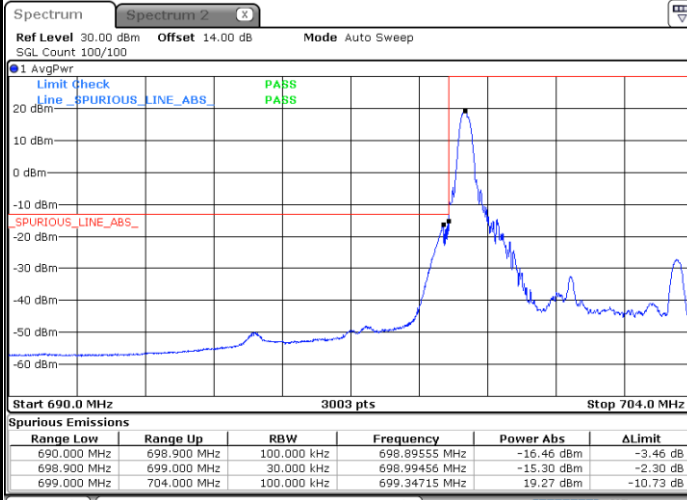


Date: 25.OCT.2023 11:58:12



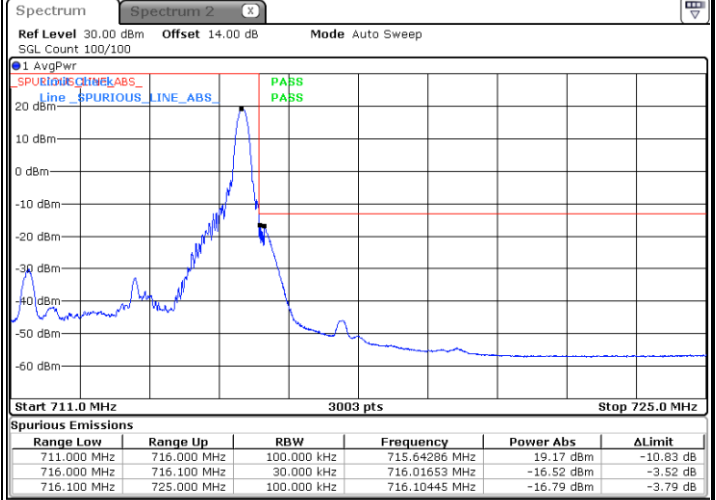
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



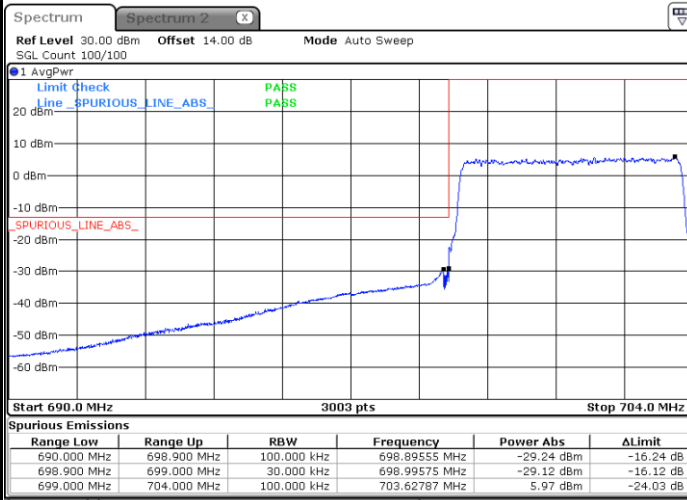
Date: 25.OCT.2023 11:47:11

Highest Band Edge / 1 RB



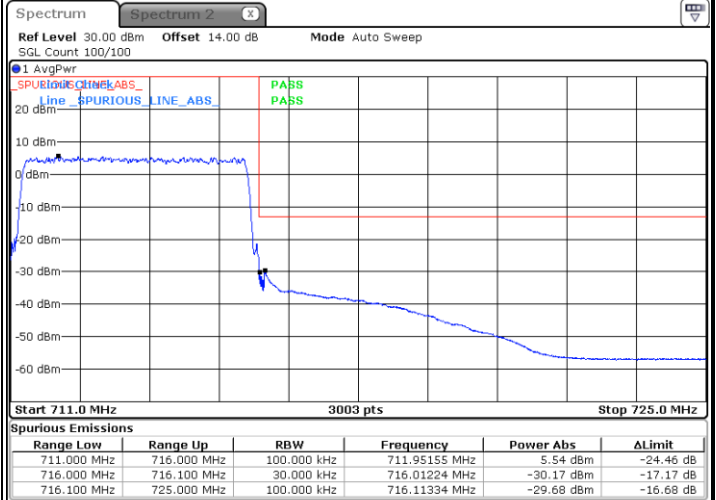
Date: 25.OCT.2023 12:08:47

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:50:04

Highest Band Edge / Full RB

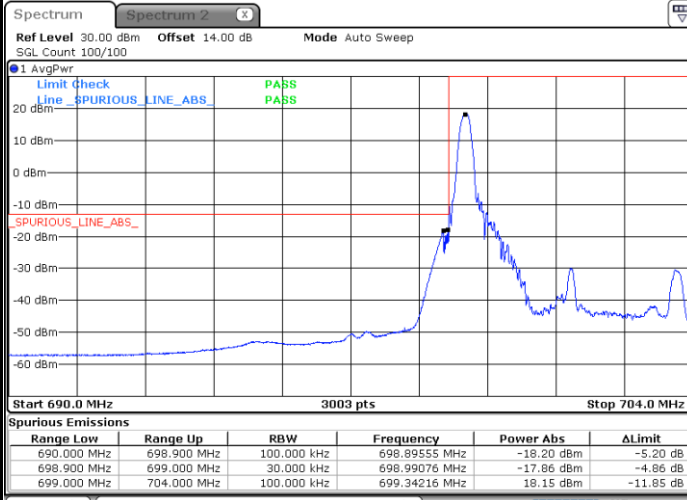


Date: 25.OCT.2023 11:52:34



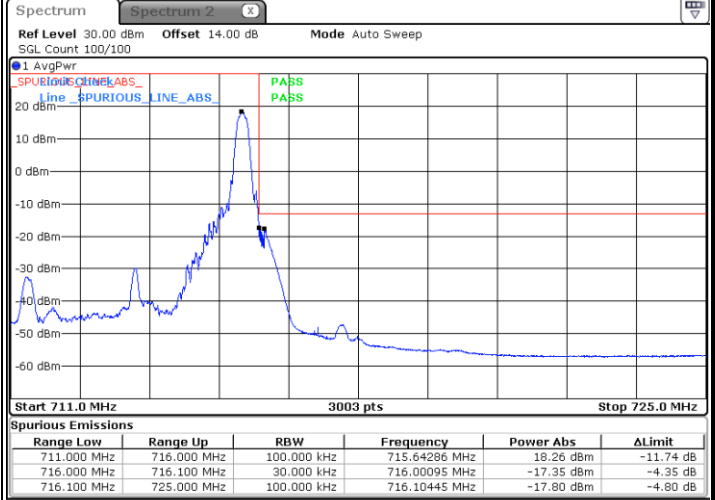
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



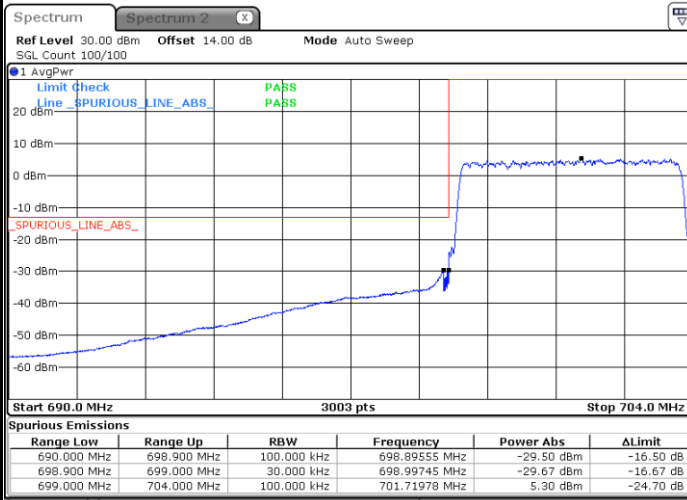
Date: 25.OCT.2023 11:47:54

Highest Band Edge / 1 RB



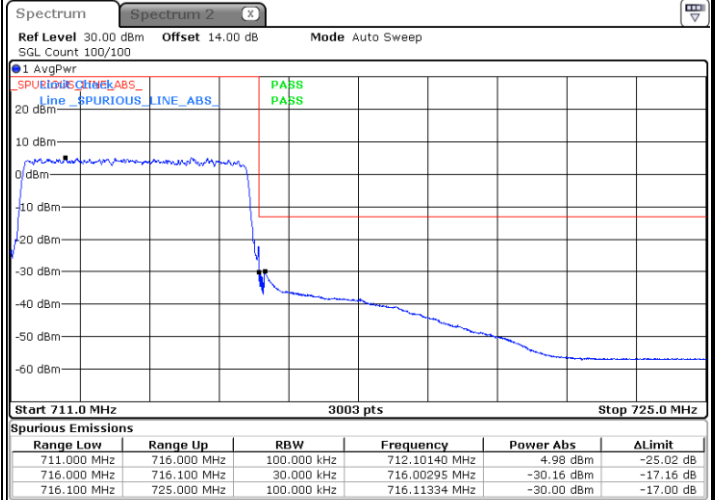
Date: 25.OCT.2023 12:09:38

Lowest Band Edge / Full RB



Date: 25.OCT.2023 11:50:50

Highest Band Edge / Full RB

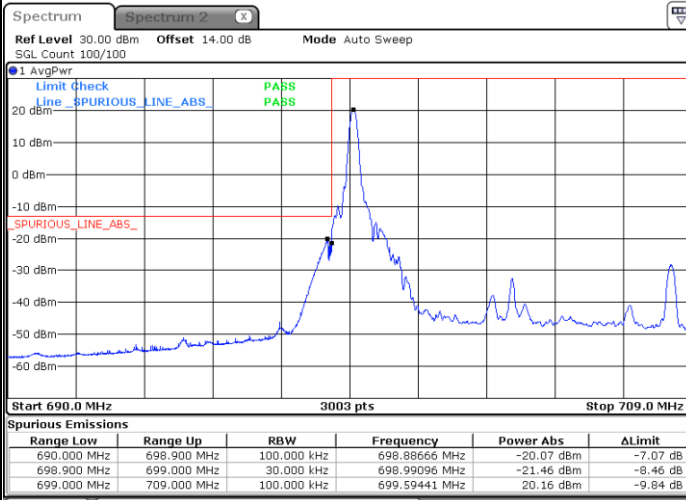


Date: 25.OCT.2023 11:51:41



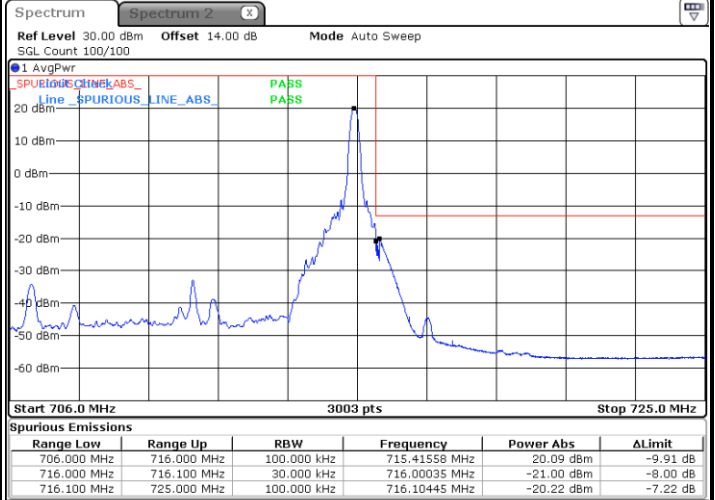
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



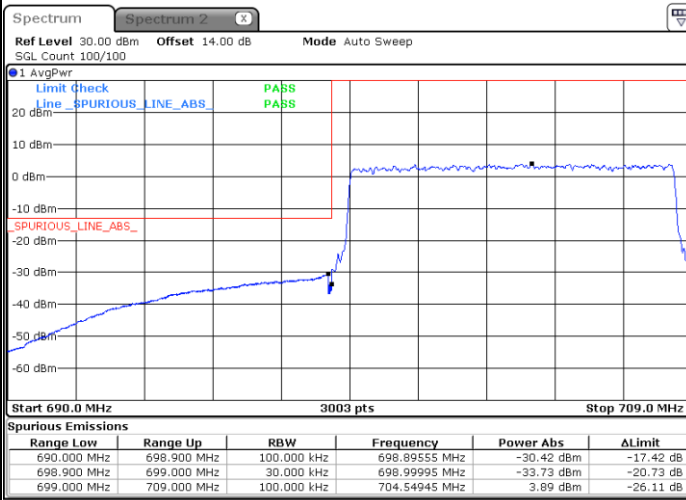
Date: 25.OCT.2023 12:15:24

Highest Band Edge / 1RB



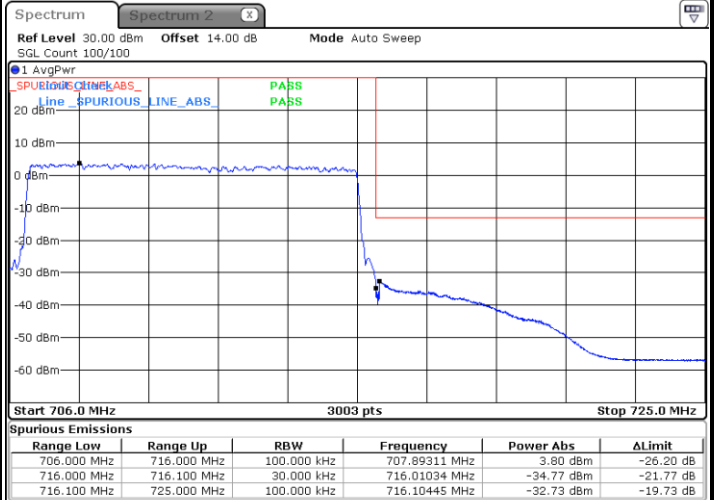
Date: 25.OCT.2023 12:32:58

Lowest Band Edge / Full RB



Date: 25.OCT.2023 12:21:10

Highest Band Edge / Full RB

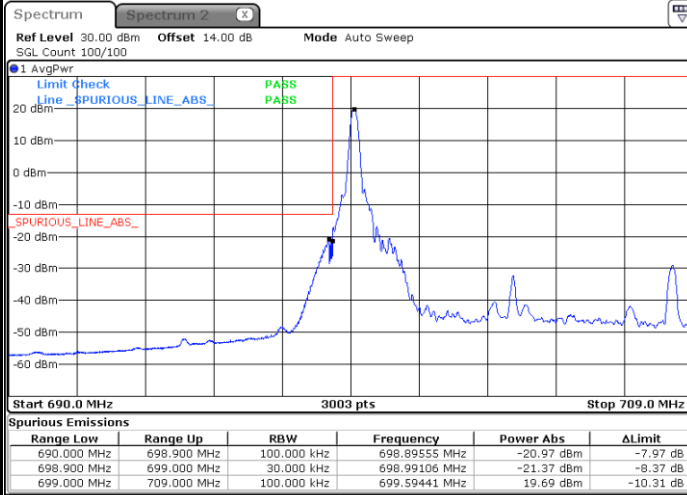


Date: 25.OCT.2023 12:22:33



LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



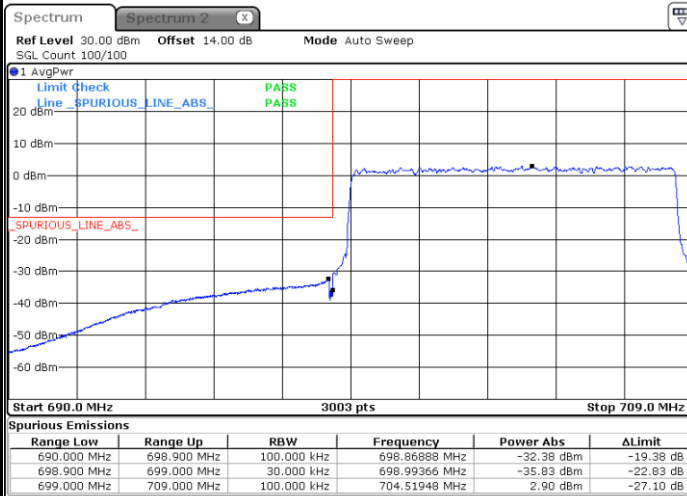
Date: 25.OCT.2023 12:16:51

Highest Band Edge / 1 RB



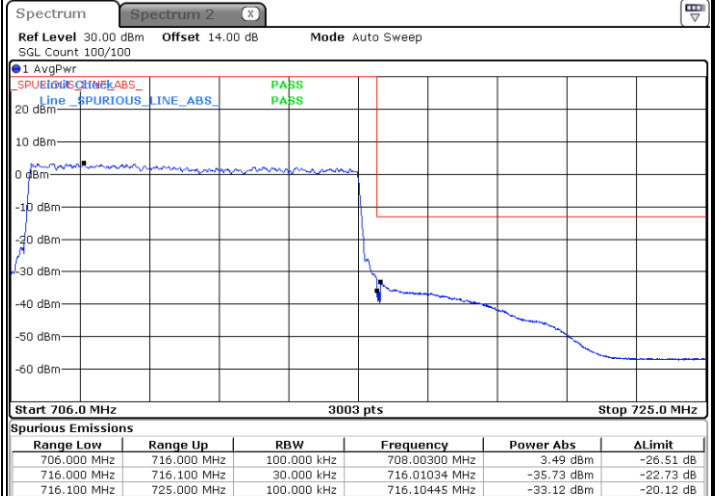
Date: 25.OCT.2023 12:33:39

Lowest Band Edge / Full RB



Date: 25.OCT.2023 12:20:29

Highest Band Edge / Full RB

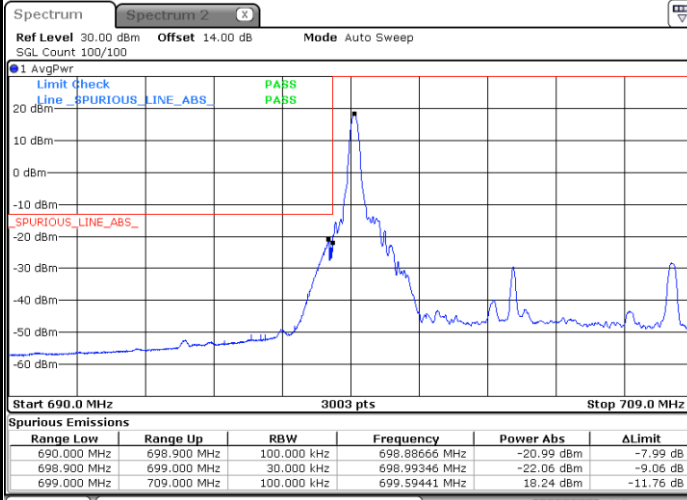


Date: 25.OCT.2023 12:23:16



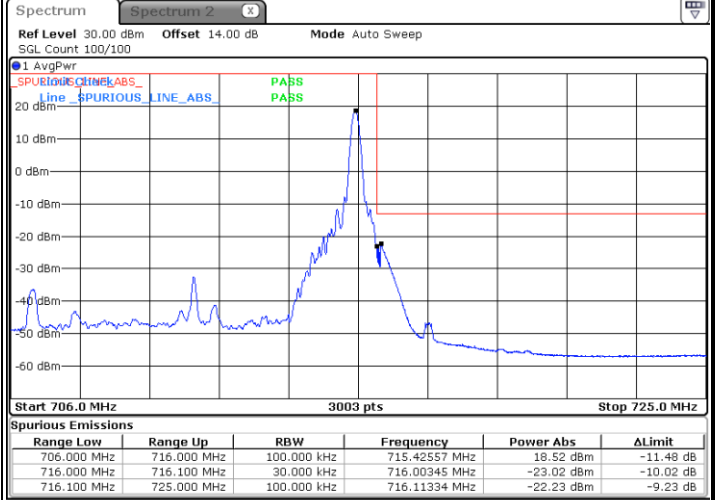
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



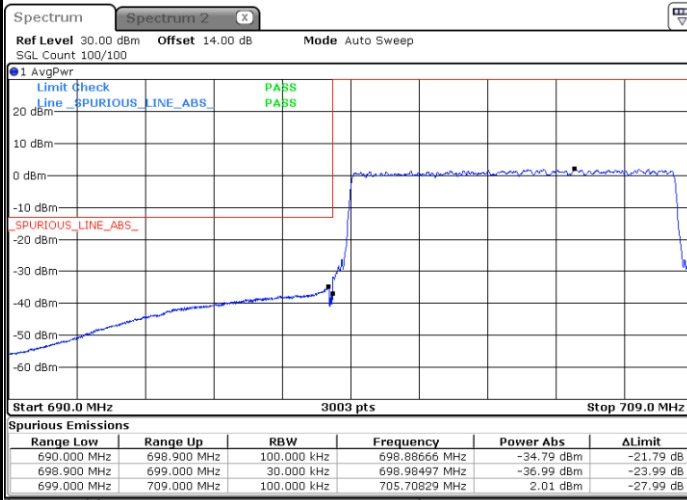
Date: 25.OCT.2023 12:17:37

Highest Band Edge / 1 RB



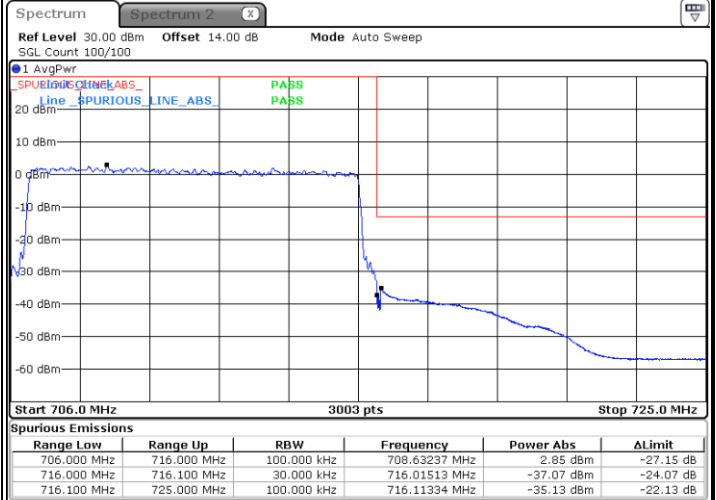
Date: 25.OCT.2023 12:34:19

Lowest Band Edge / Full RB



Date: 25.OCT.2023 12:19:44

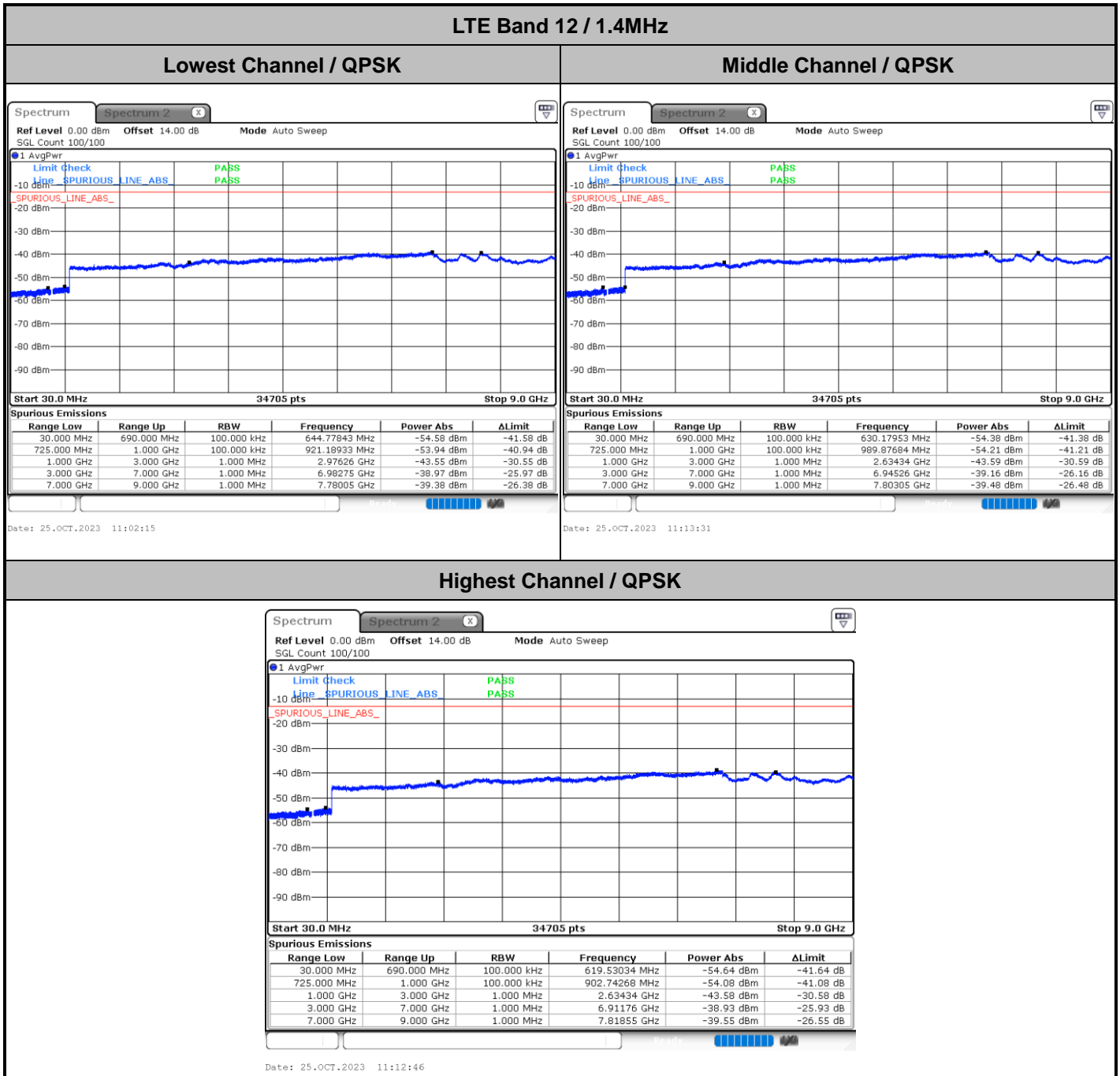
Highest Band Edge / Full RB



Date: 25.OCT.2023 12:24:10



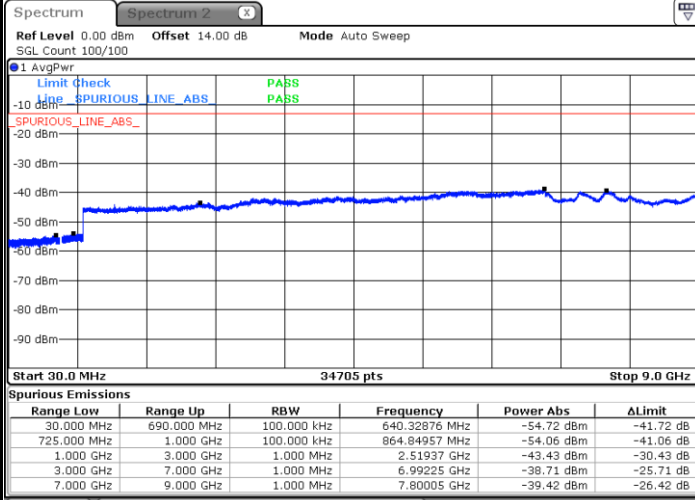
Conducted Spurious Emission





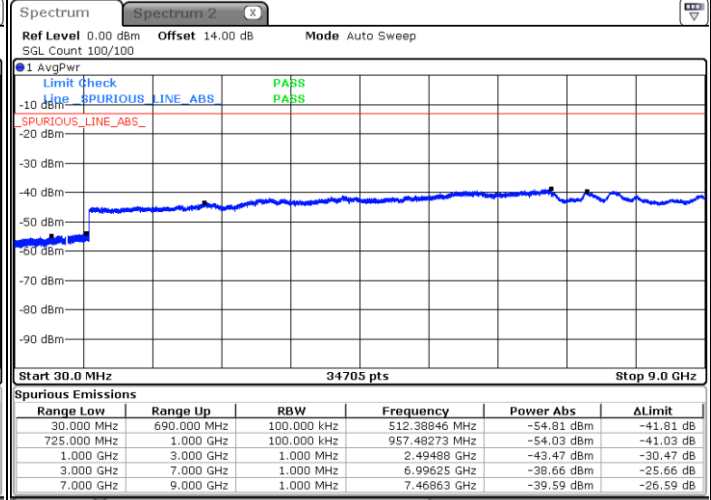
LTE Band 12 / 3MHz

Lowest Channel / QPSK



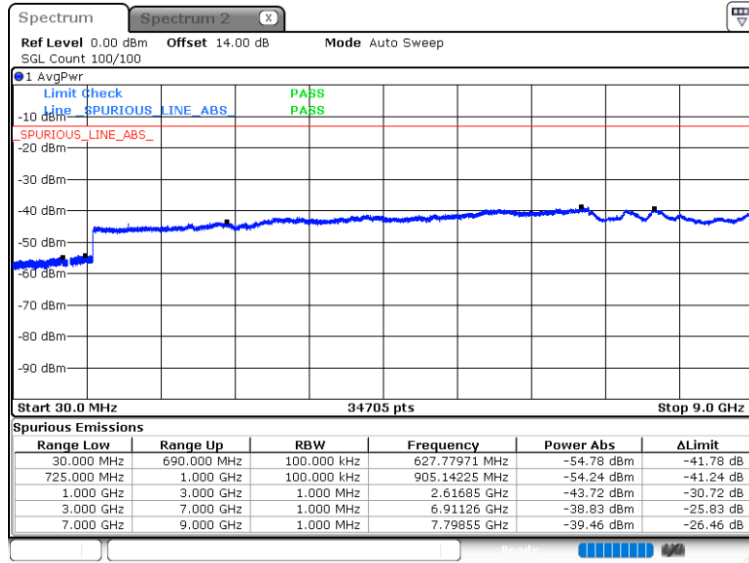
Date: 25.OCT.2023 11:34:28

Middle Channel / QPSK



Date: 25.OCT.2023 11:43:37

Highest Channel / QPSK

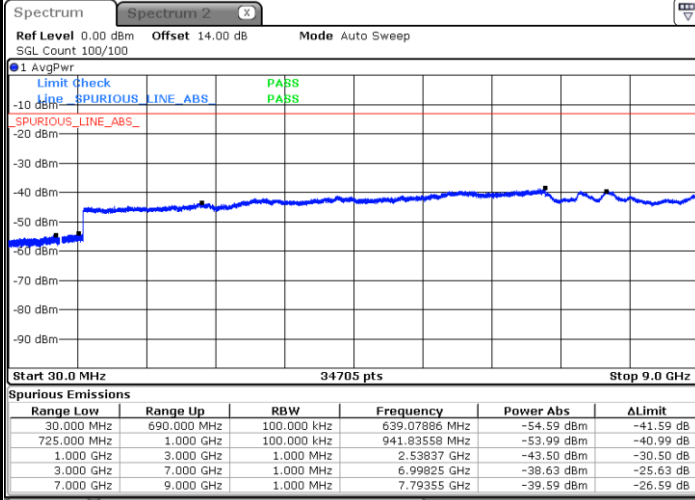


Date: 25.OCT.2023 11:42:50



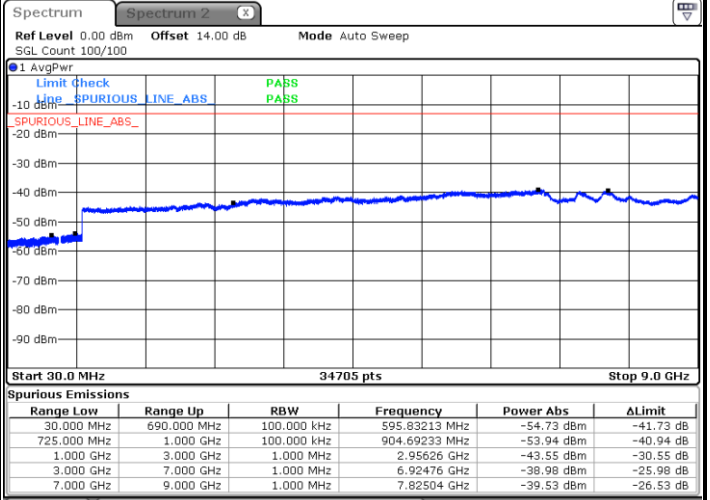
LTE Band 12 / 5MHz

Lowest Channel / QPSK



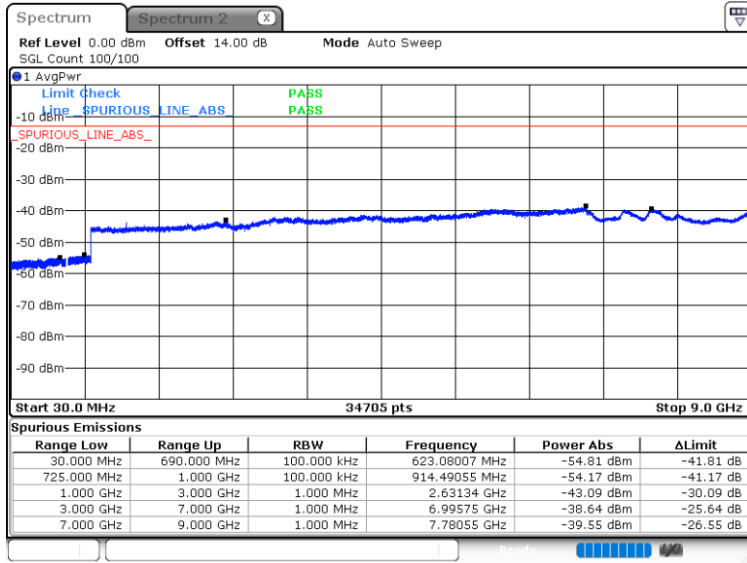
Date: 25.OCT.2023 11:48:33

Middle Channel / QPSK



Date: 25.OCT.2023 12:11:23

Highest Channel / QPSK

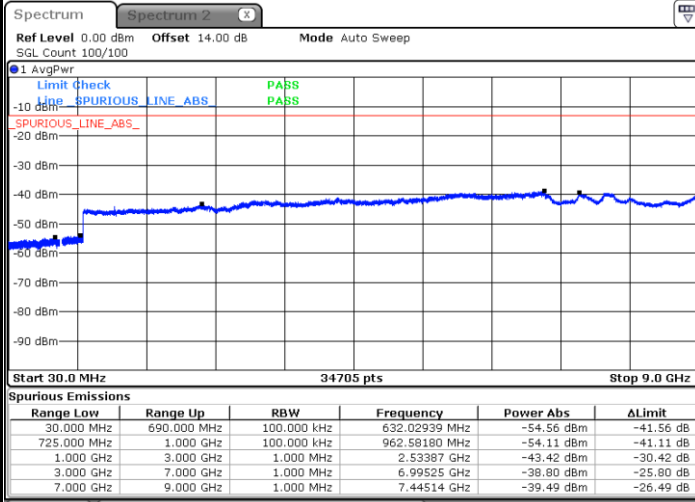


Date: 25.OCT.2023 12:10:35



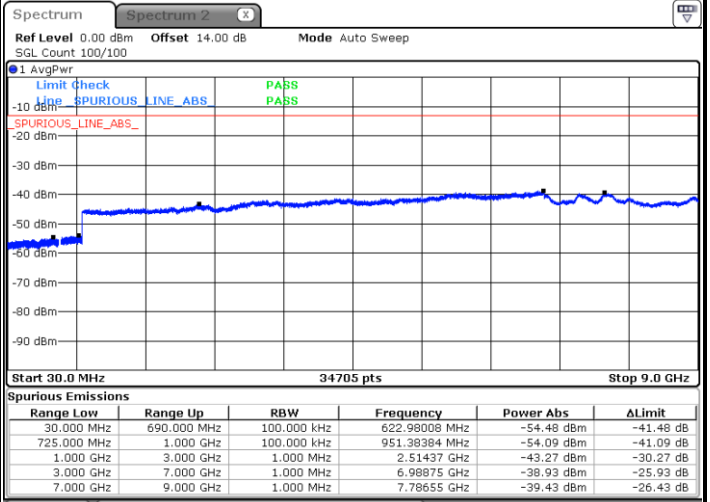
LTE Band 12 / 10MHz

Lowest Channel / QPSK



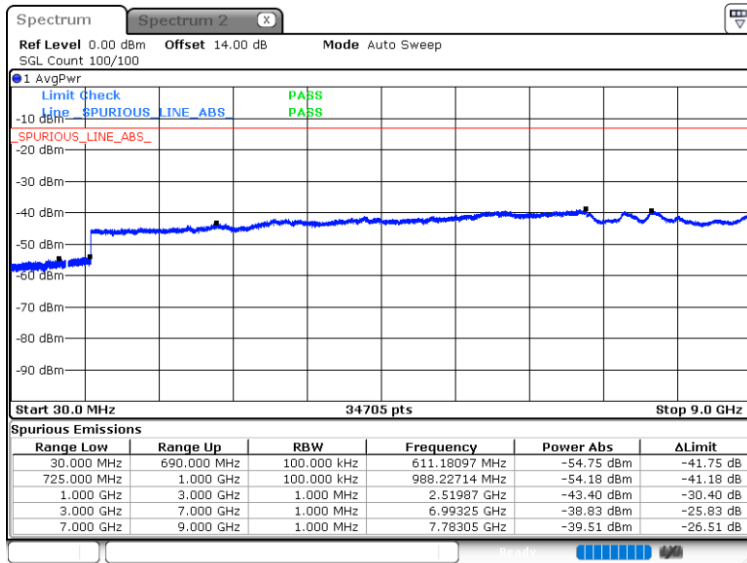
Date: 25.OCT.2023 12:16:05

Middle Channel / QPSK



Date: 25.OCT.2023 12:35:53

Highest Channel / QPSK



Date: 25.OCT.2023 12:35:09



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	0.0037	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0040	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

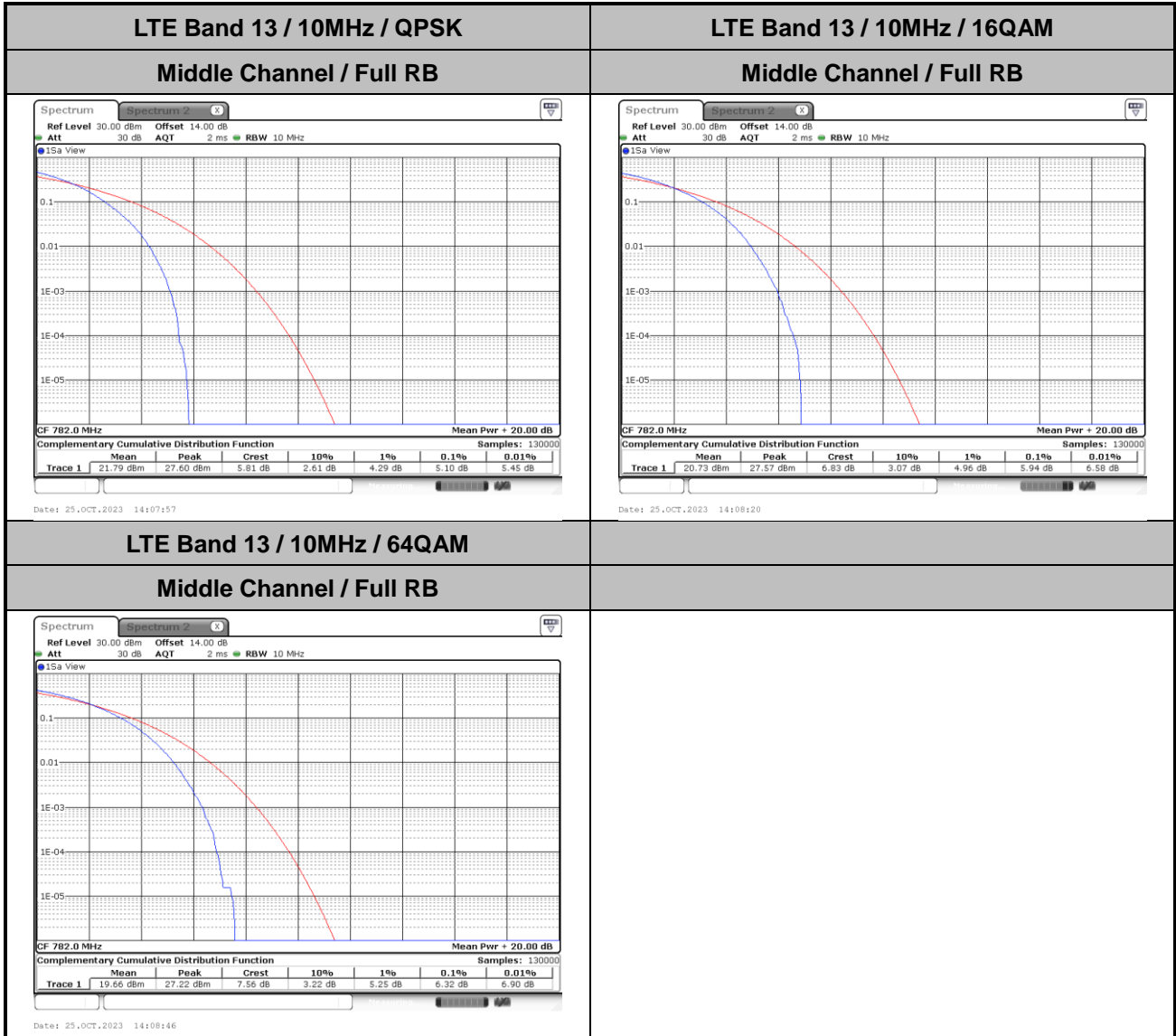
1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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	5.10	5.94	6.32	PASS





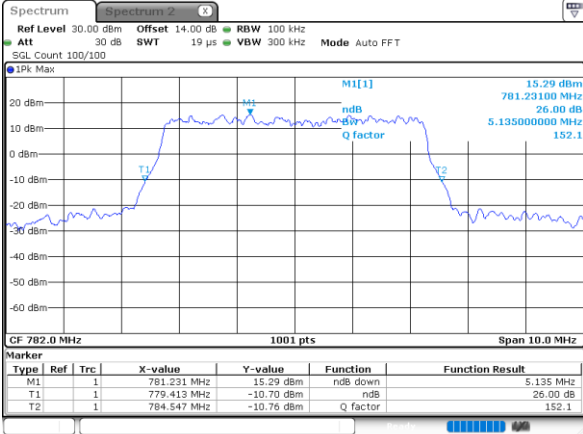
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
	BW				5MHz		10MHz					
Mod.					QPSK	16QAM	QPSK	16QAM				
Middle CH					5.14	5.16	9.95	9.69				



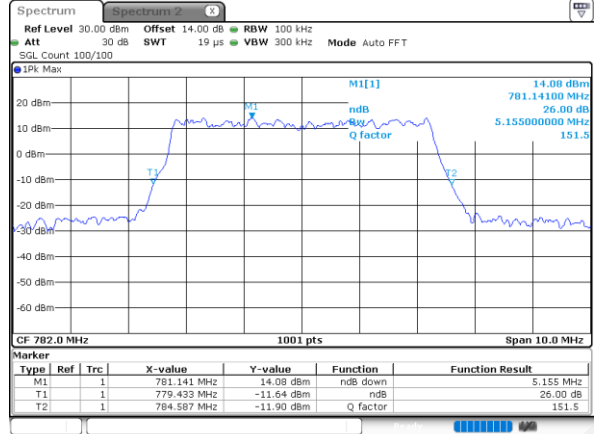
LTE Band 13

Middle Channel / 5MHz / QPSK



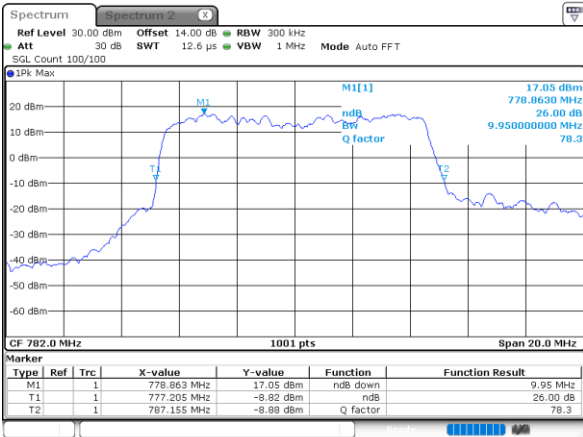
Date: 25.OCT.2023 12:51:16

Middle Channel / 5MHz / 16QAM



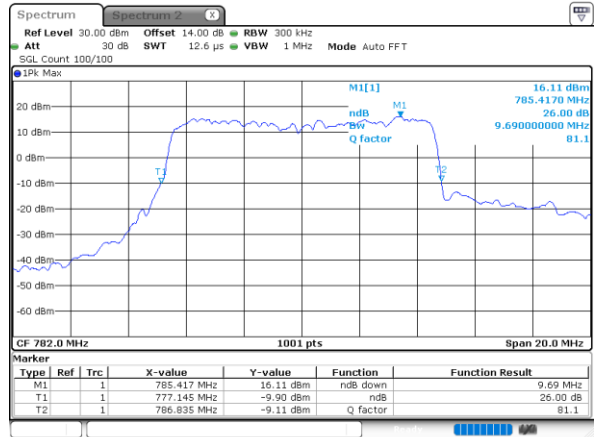
Date: 25.OCT.2023 12:52:05

Middle Channel / 10MHz / QPSK



Date: 25.OCT.2023 14:06:19

Middle Channel / 10MHz / 16QAM



Date: 25.OCT.2023 14:07:04



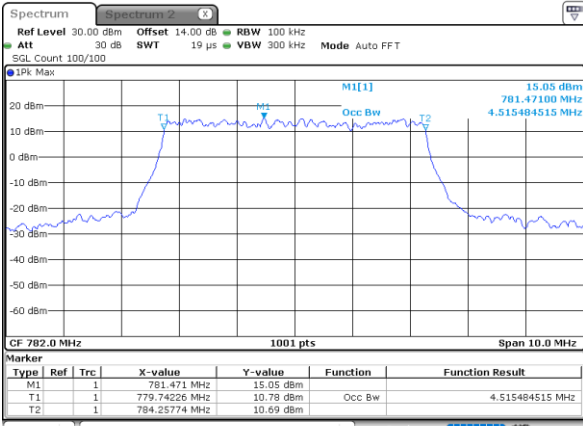
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	BW				5MHz		10MHz					
Mod.					QPSK	16QAM	QPSK	16QAM				
Middle CH					4.52	4.49	9.03	9.03				



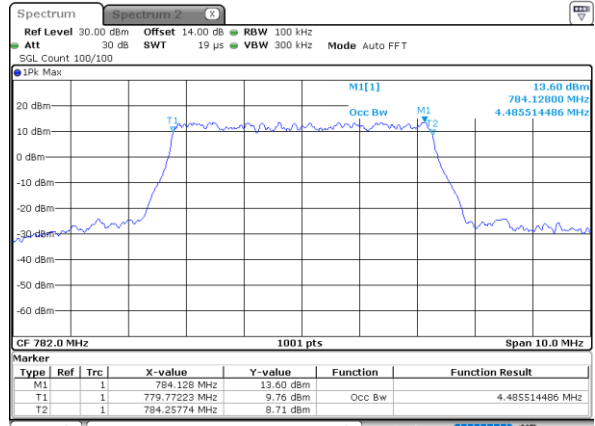
LTE Band 13

Middle Channel / 5MHz / QPSK



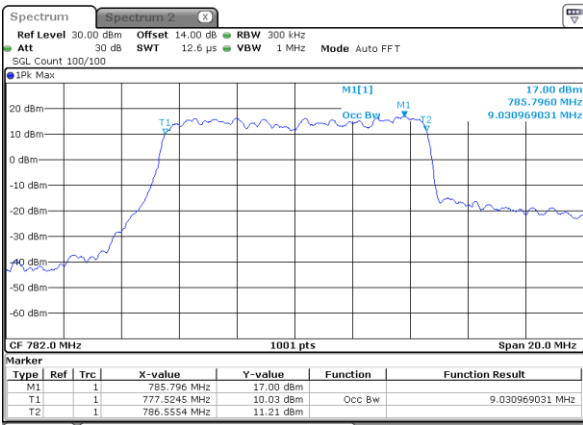
Date: 25.OCT.2023 12:50:58

Middle Channel / 5MHz / 16QAM



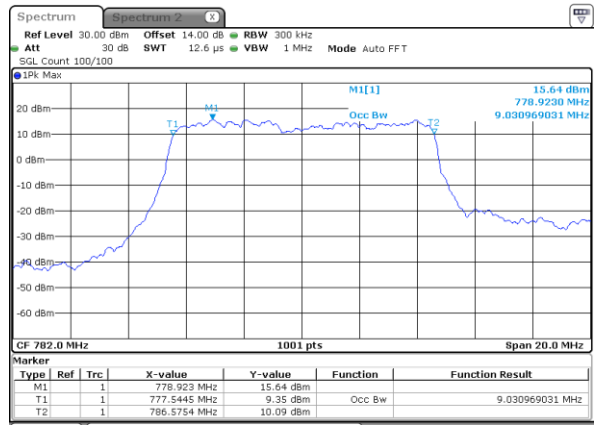
Date: 25.OCT.2023 12:51:43

Middle Channel / 10MHz / QPSK



Date: 25.OCT.2023 14:06:05

Middle Channel / 10MHz / 16QAM



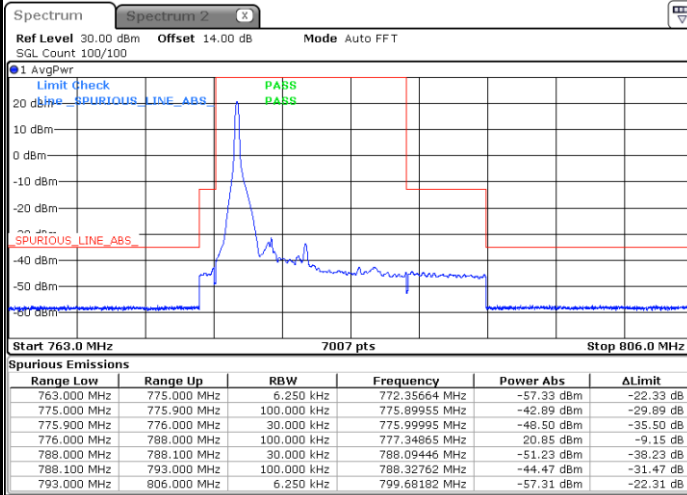
Date: 25.OCT.2023 14:06:52



Conducted Band Edge

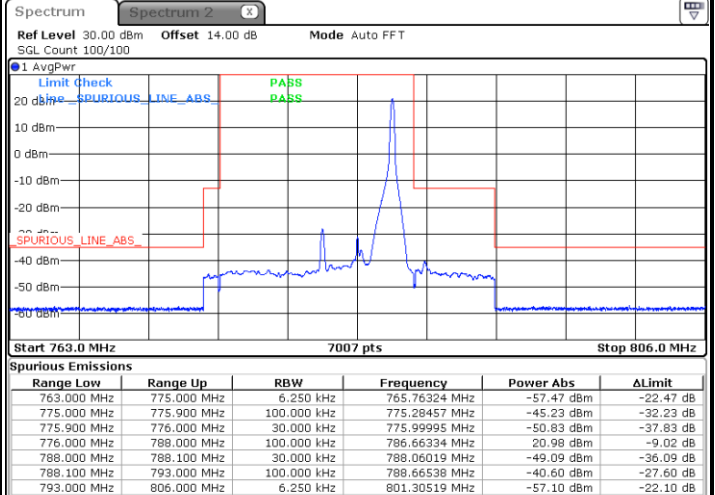
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



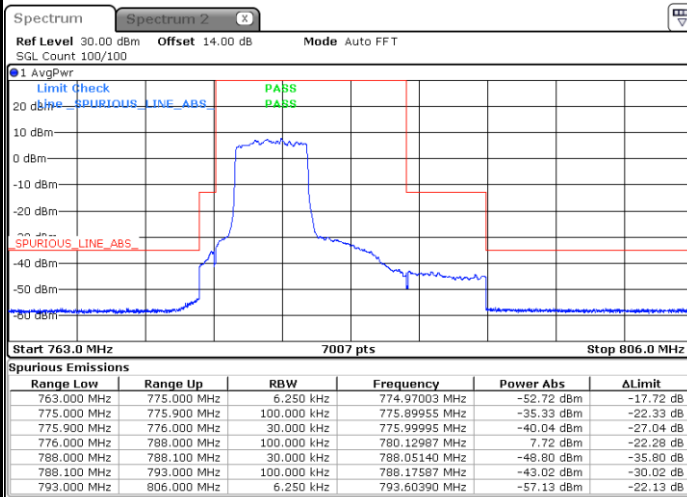
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Highest Band Edge / 1 RB



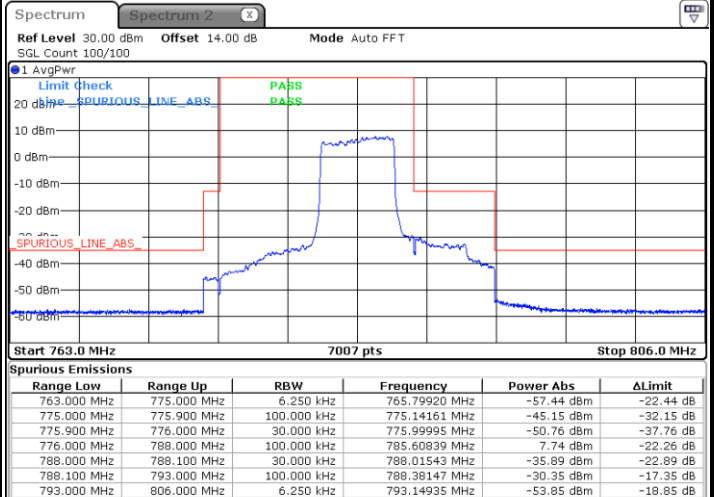
Date: 25.OCT.2023 12:48:09

Lowest Band Edge / Full RB



Date: 25.OCT.2023 12:44:46

Highest Band Edge / Full RB

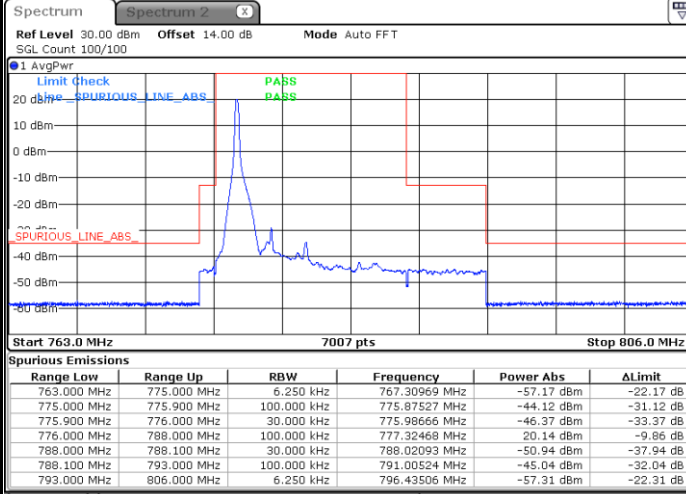


Date: 25.OCT.2023 12:47:22



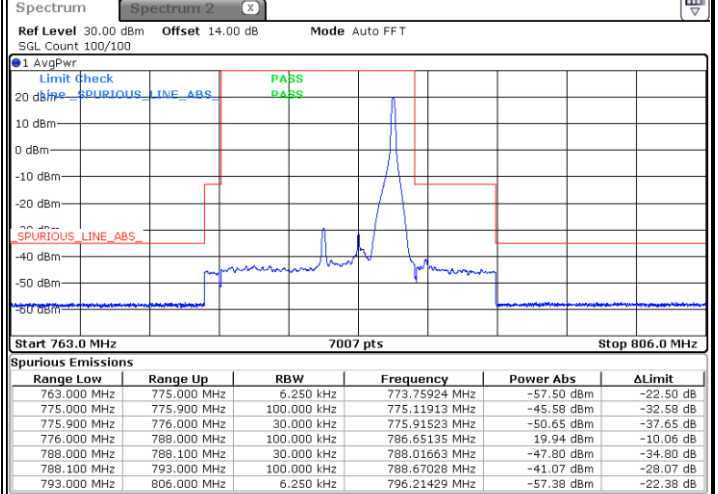
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



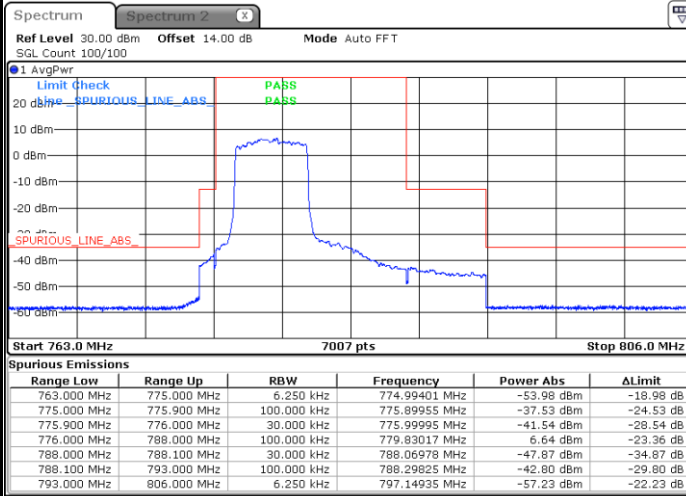
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Highest Band Edge / 1 RB



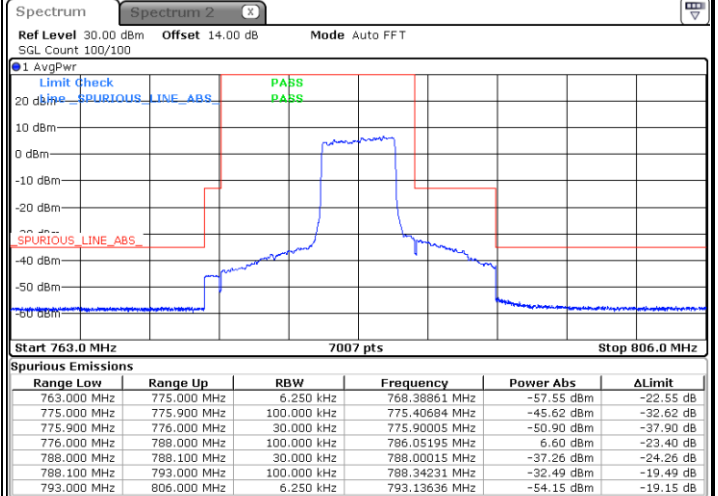
Date: 25.OCT.2023 12:48:32

Lowest Band Edge / Full RB



Date: 25.OCT.2023 12:45:12

Highest Band Edge / Full RB

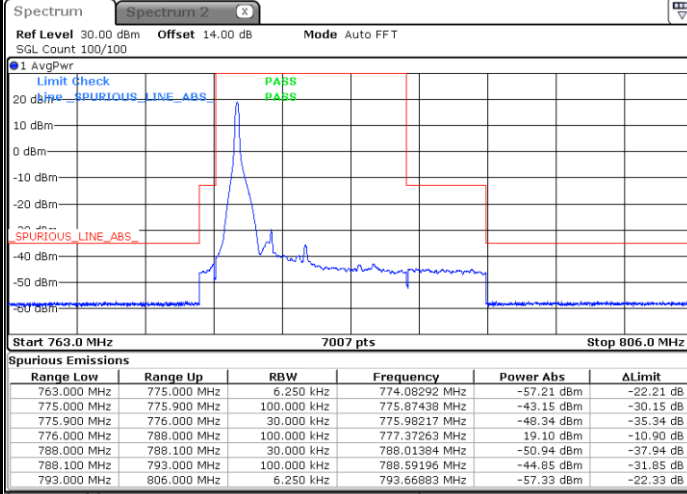


Date: 25.OCT.2023 12:46:58



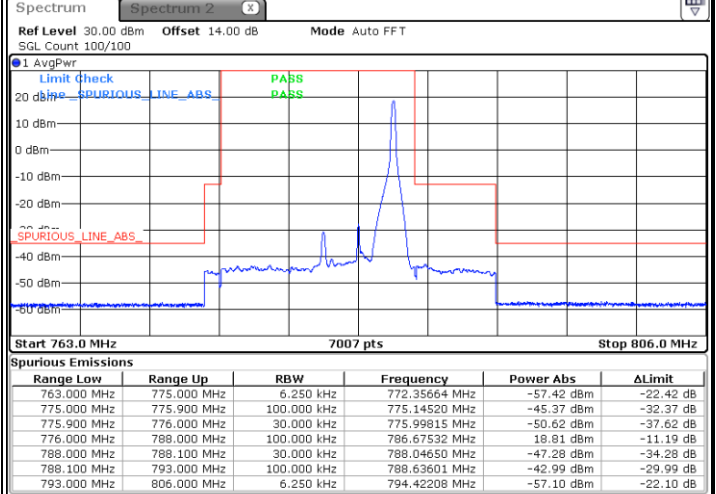
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



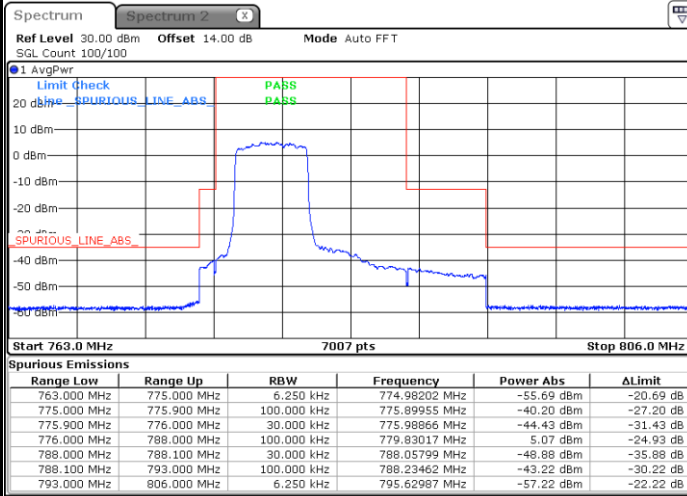
Date: 25.OCT.2023 12:43:21

Highest Band Edge / 1 RB



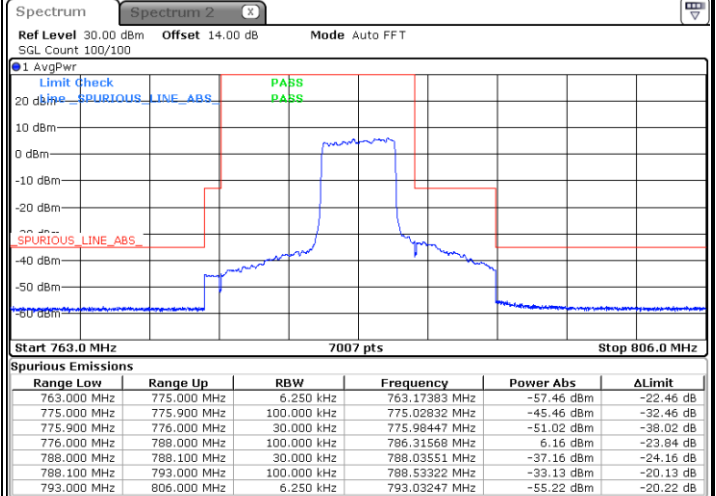
Date: 25.OCT.2023 12:49:00

Lowest Band Edge / Full RB



Date: 25.OCT.2023 12:45:35

Highest Band Edge / Full RB



Date: 25.OCT.2023 12:46:29

