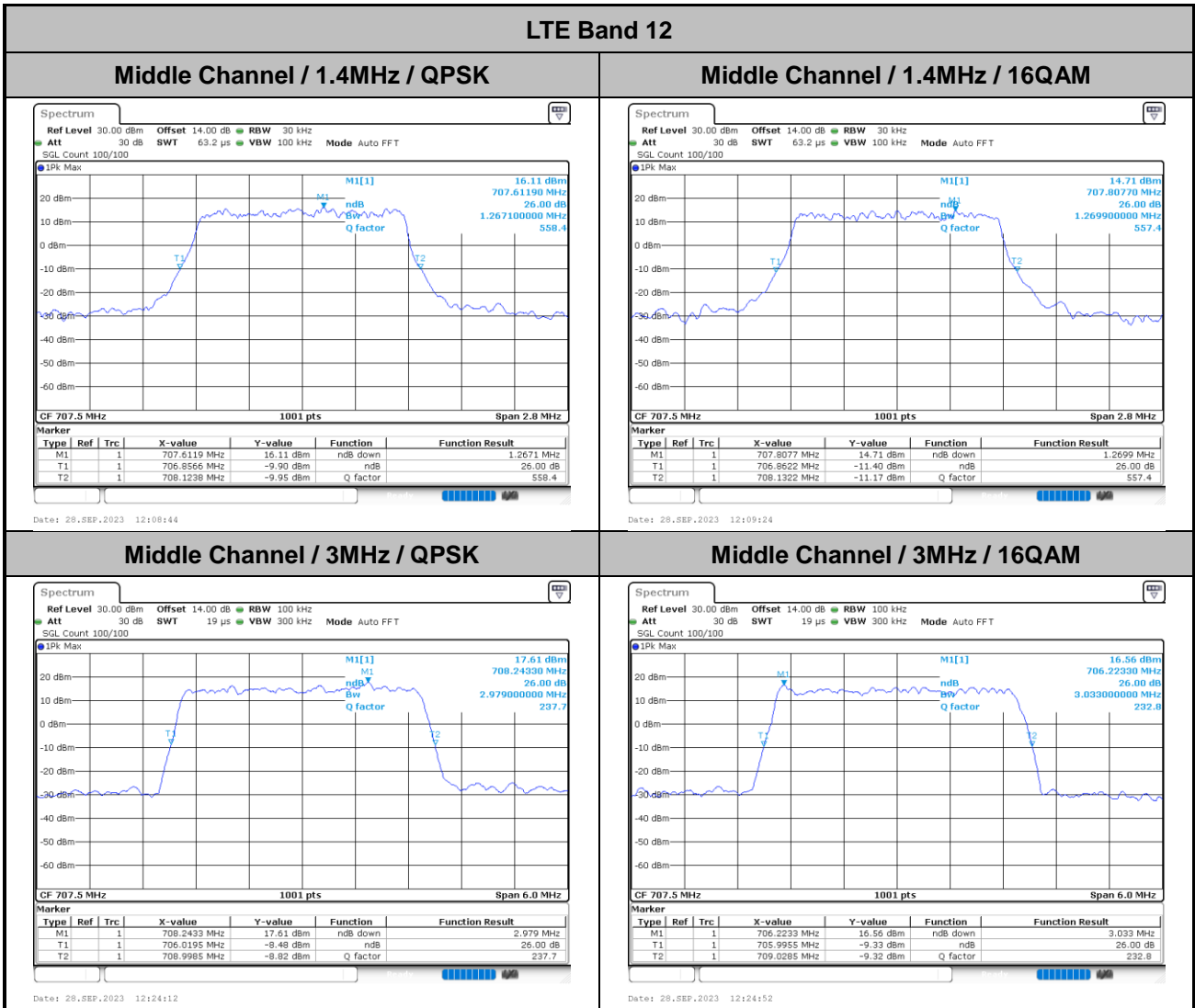




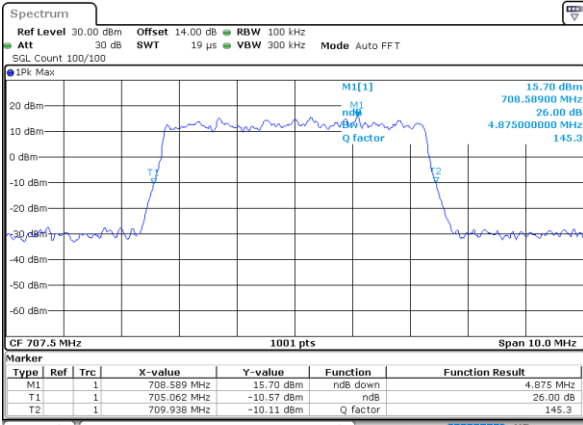
26dB Bandwidth

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	1.27	2.98	3.03	4.88	4.92	9.91	9.85	-	-



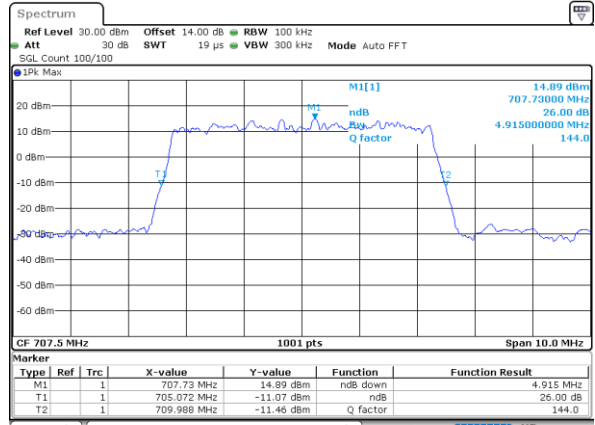


Middle Channel / 5MHz / QPSK



Date: 28_SEP.2023 12:39:41

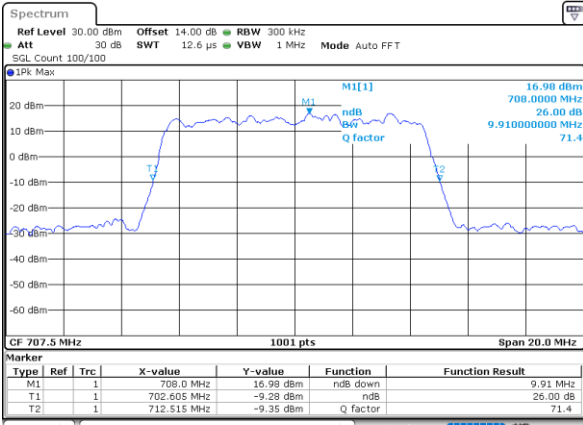
Middle Channel / 5MHz / 16QAM



Date: 28_SEP.2023 12:40:21

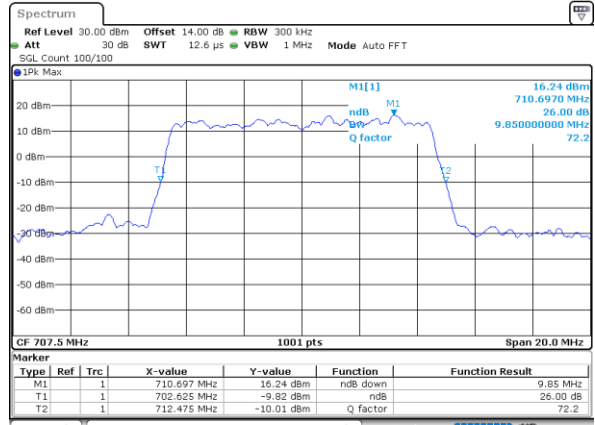
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 28_SEP.2023 13:32:06

Middle Channel / 10MHz / 16QAM

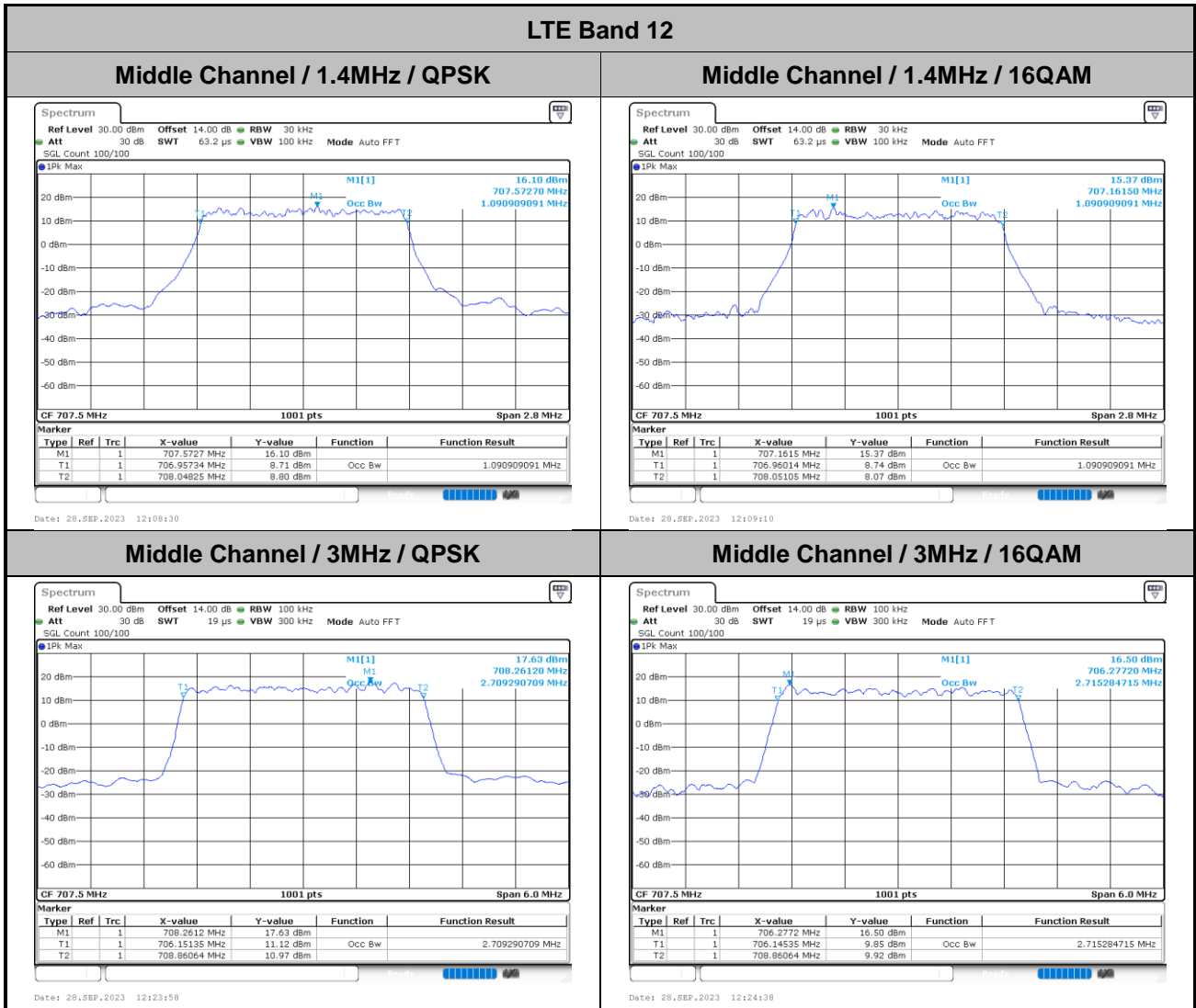


Date: 28_SEP.2023 13:33:16



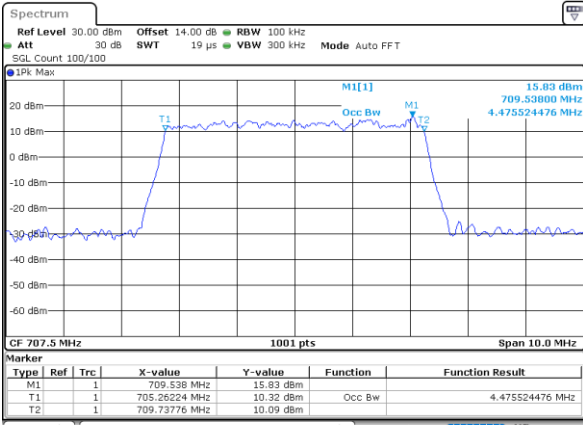
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)									
BW	1.4MHz		3MHz		5MHz		10MHz		-	-
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	-	-
Middle CH	1.09	1.09	2.71	2.72	4.48	4.47	8.97	9.03	-	-



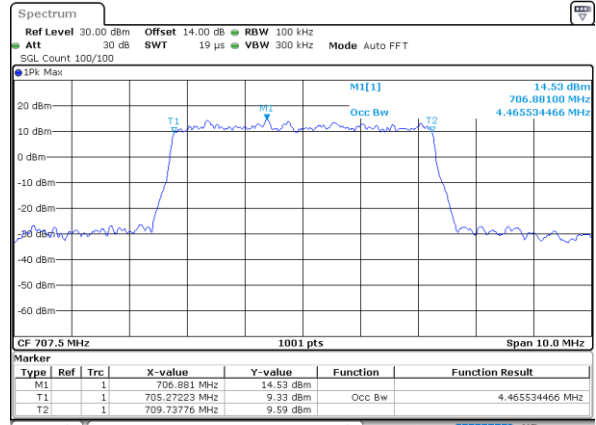


Middle Channel / 5MHz / QPSK



Date: 28_SEP.2023 12:39:27

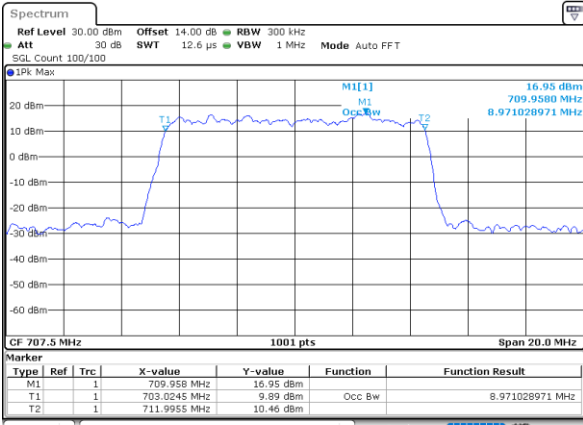
Middle Channel / 5MHz / 16QAM



Date: 28_SEP.2023 12:40:07

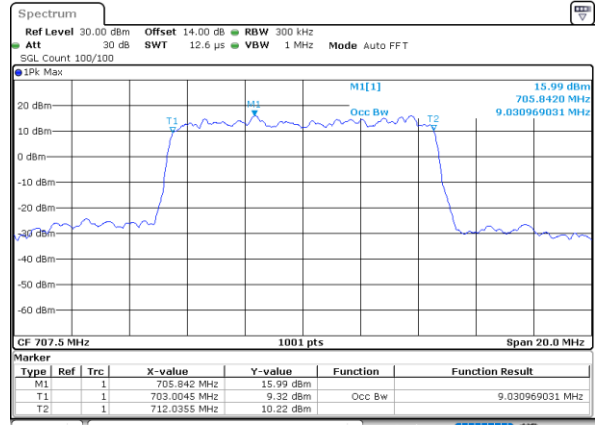
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 28_SEP.2023 13:32:22

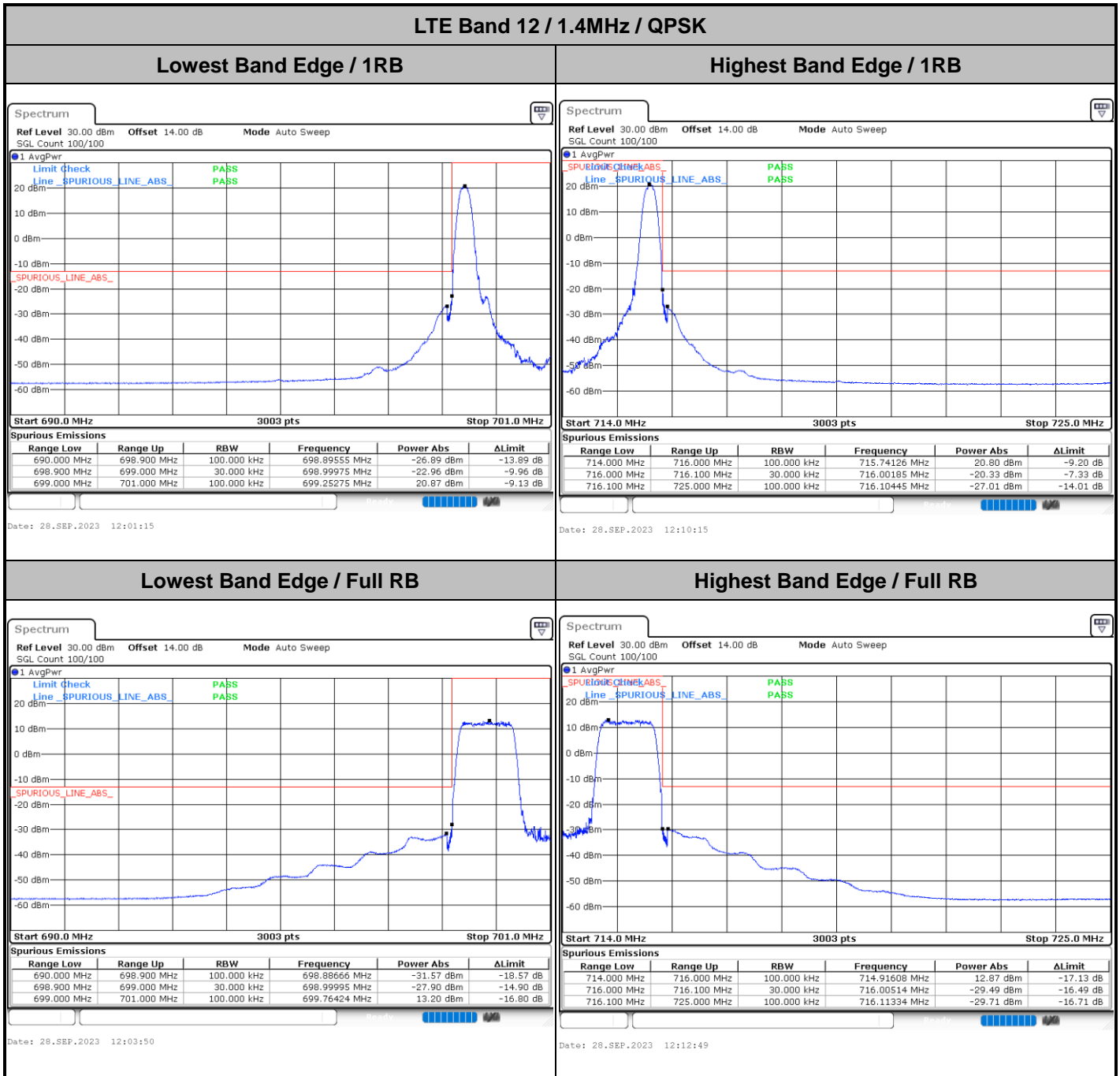
Middle Channel / 10MHz / 16QAM



Date: 28_SEP.2023 13:33:02



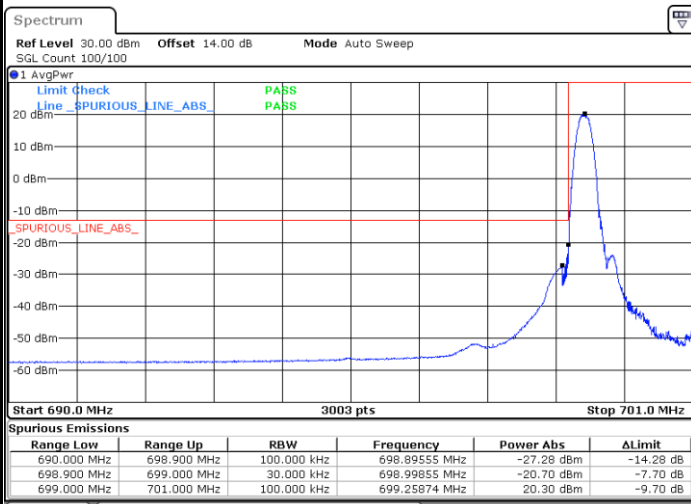
Conducted Band Edge





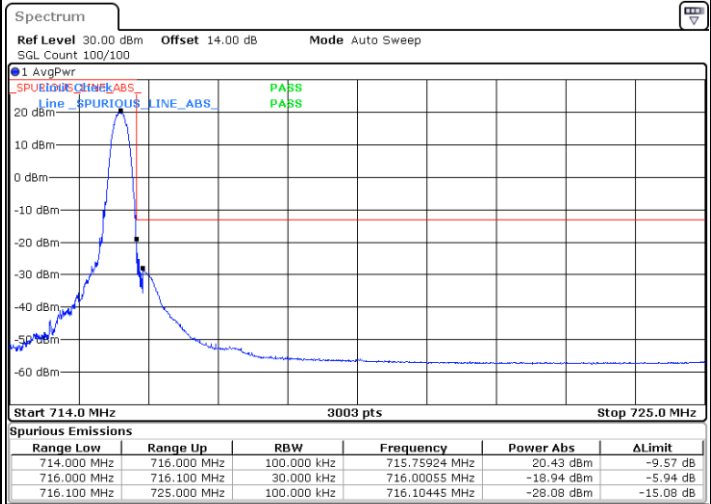
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



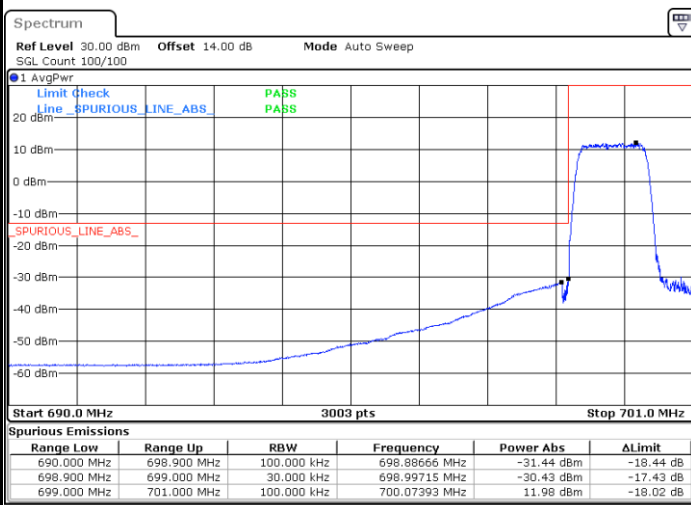
Date: 28.SEP.2023 12:02:07

Highest Band Edge / 1 RB



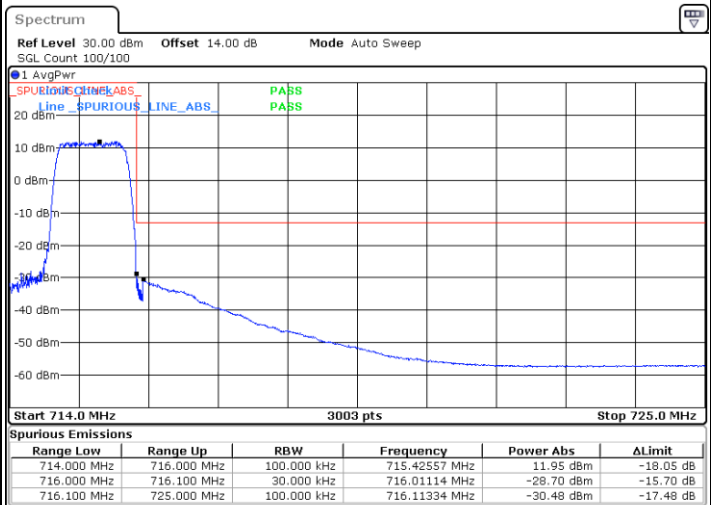
Date: 28.SEP.2023 12:11:06

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:04:41

Highest Band Edge / Full RB

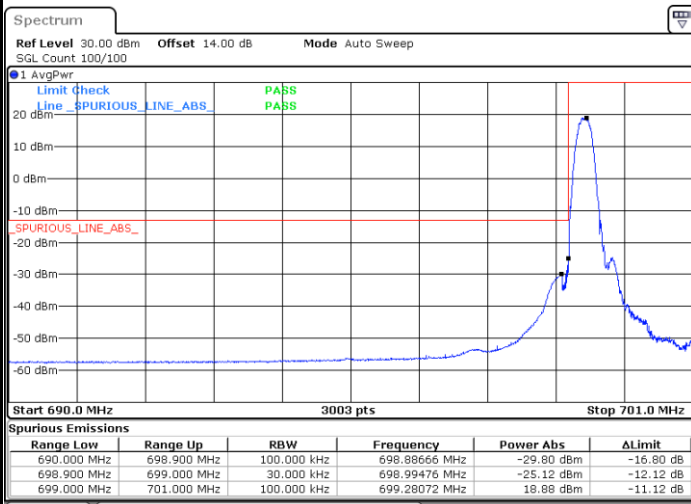


Date: 28.SEP.2023 12:13:41



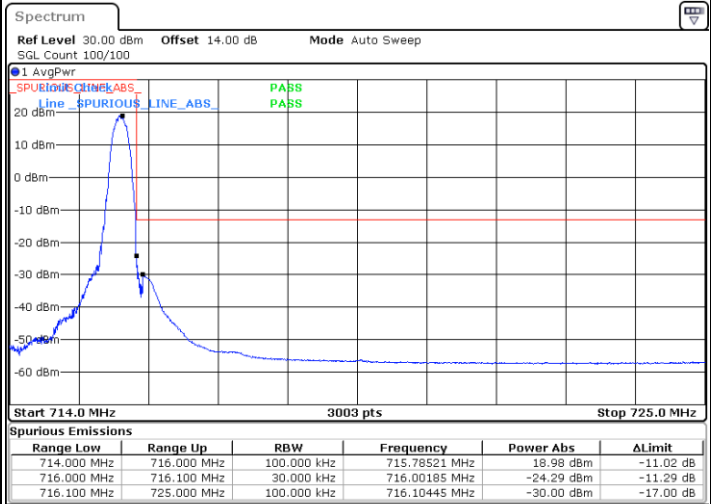
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



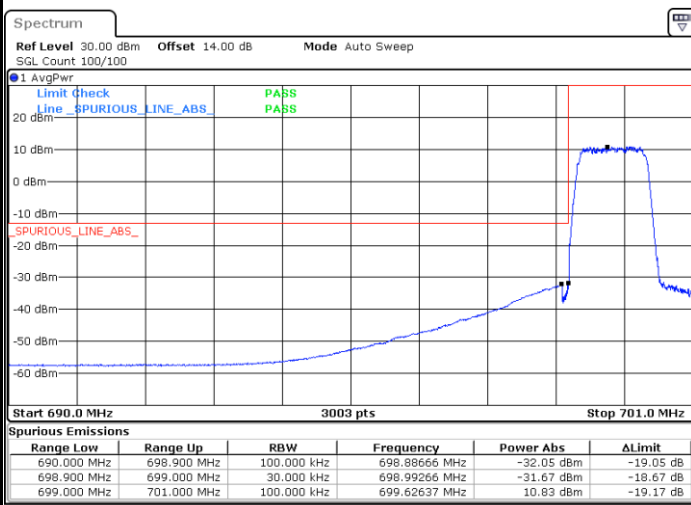
Date: 28.SEP.2023 12:02:58

Highest Band Edge / 1 RB



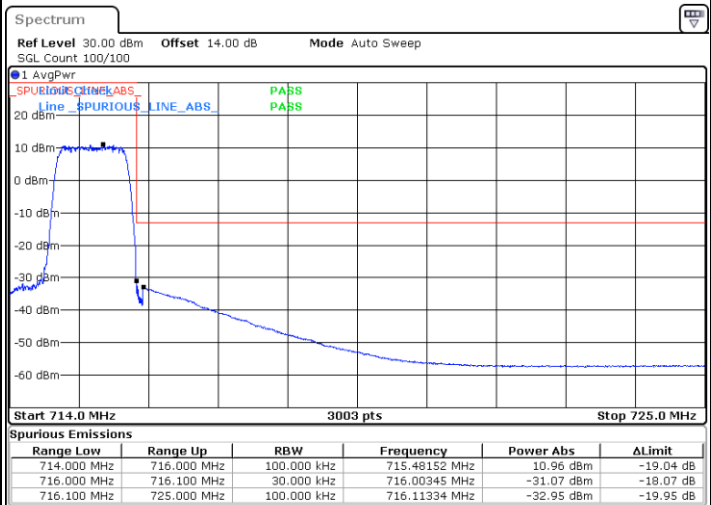
Date: 28.SEP.2023 12:11:58

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:05:32

Highest Band Edge / Full RB

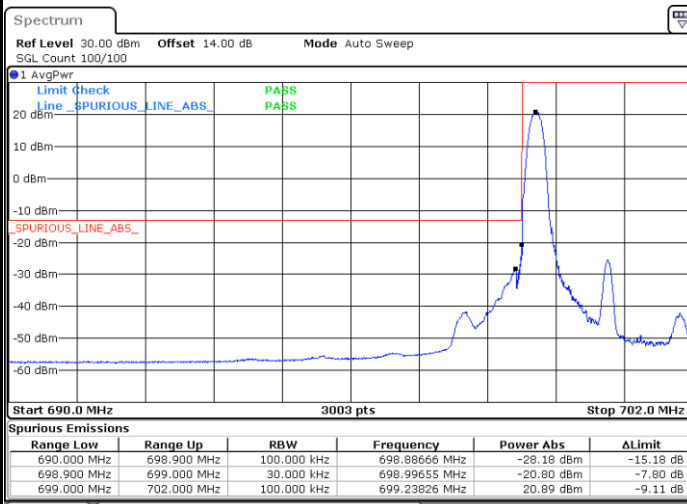


Date: 28.SEP.2023 12:14:32



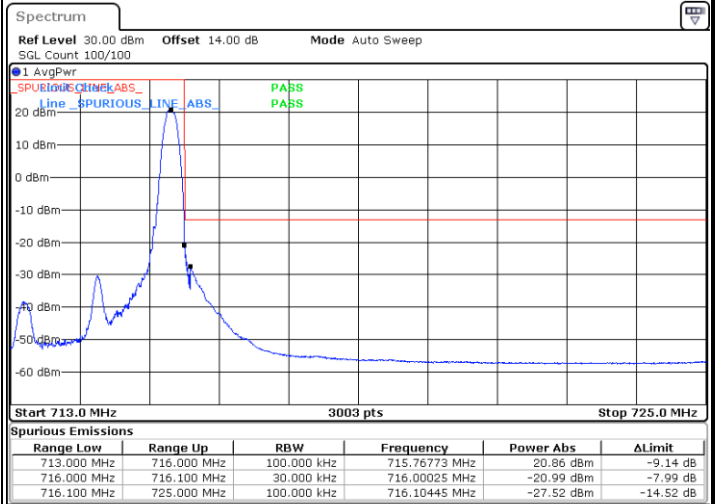
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



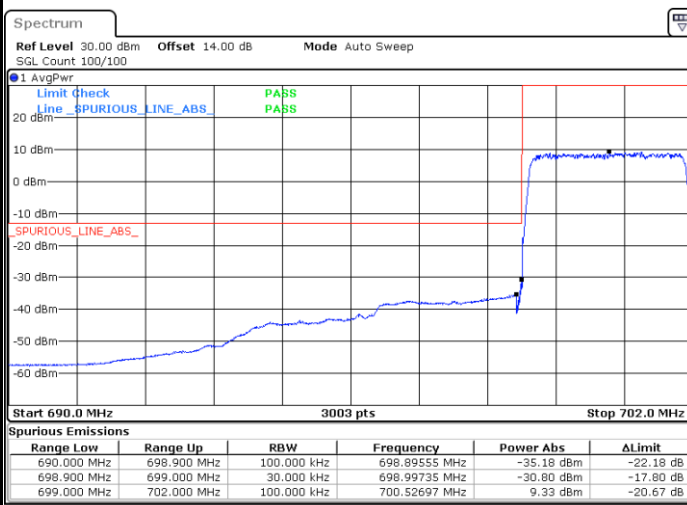
Date: 28.SEP.2023 12:16:42

Highest Band Edge / 1RB



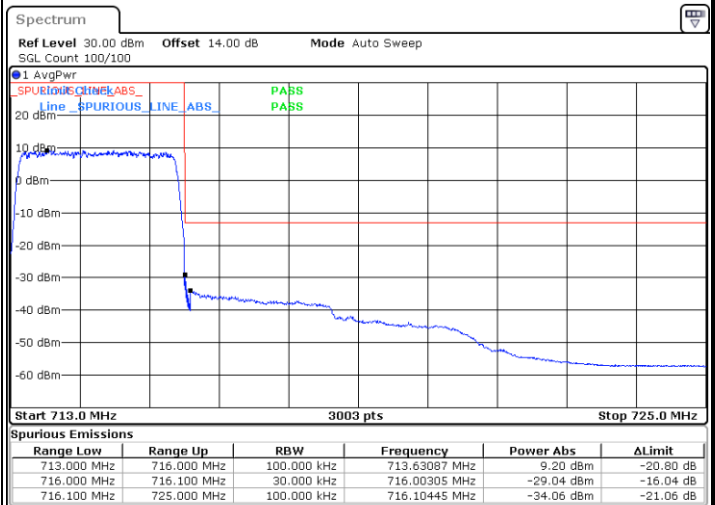
Date: 28.SEP.2023 12:25:43

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:19:17

Highest Band Edge / Full RB

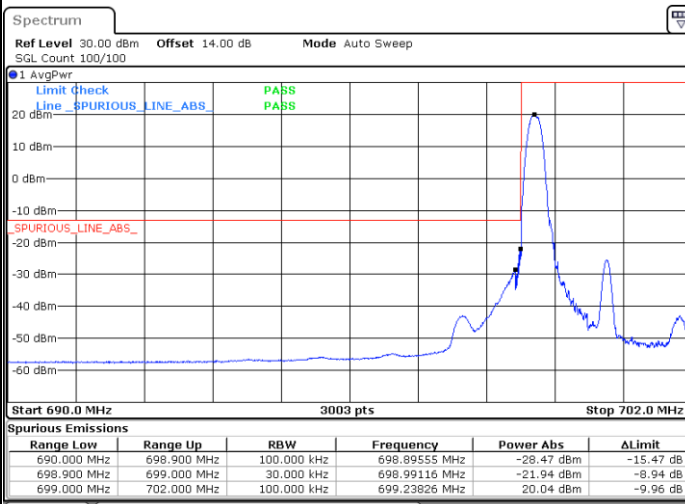


Date: 28.SEP.2023 12:28:18



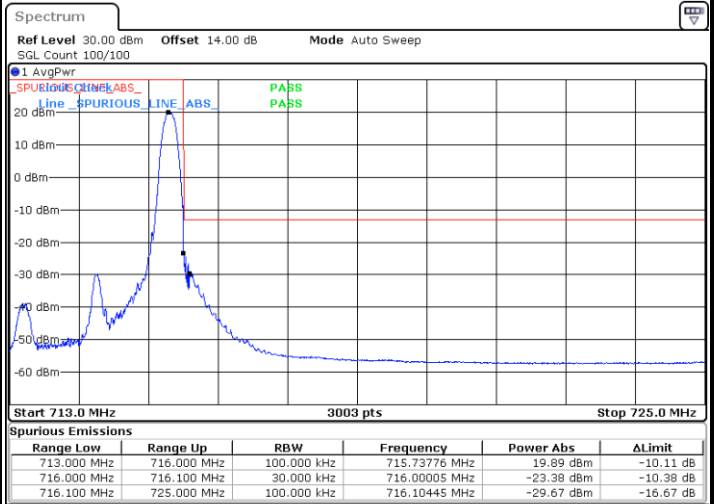
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



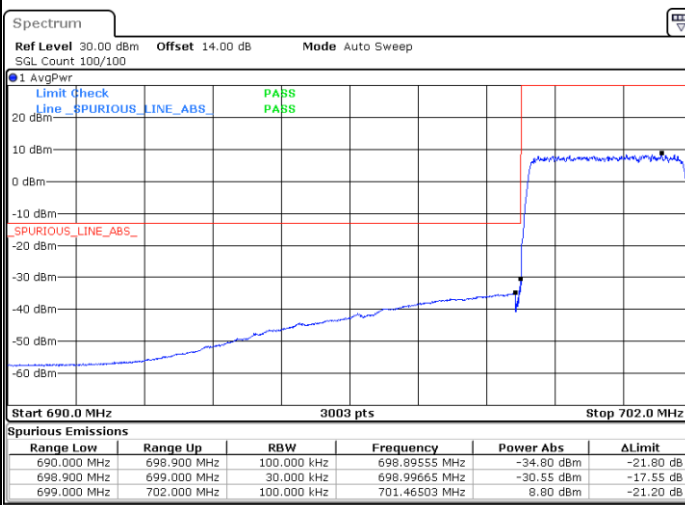
Date: 28.SEP.2023 12:17:34

Highest Band Edge / 1 RB



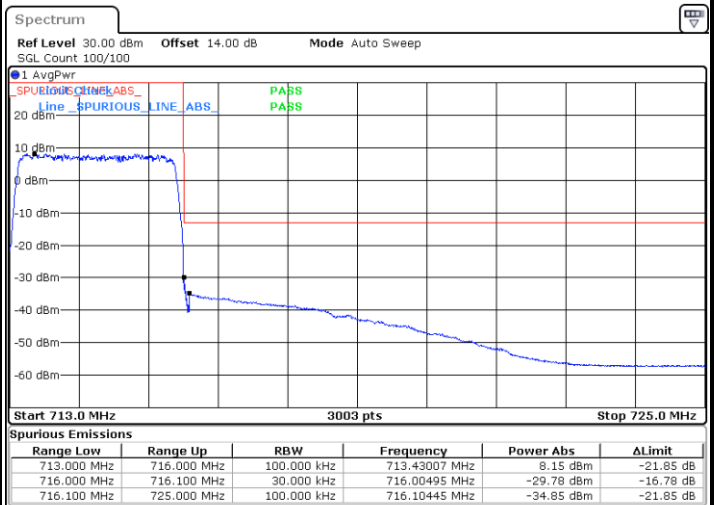
Date: 28.SEP.2023 12:26:34

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:20:08

Highest Band Edge / Full RB

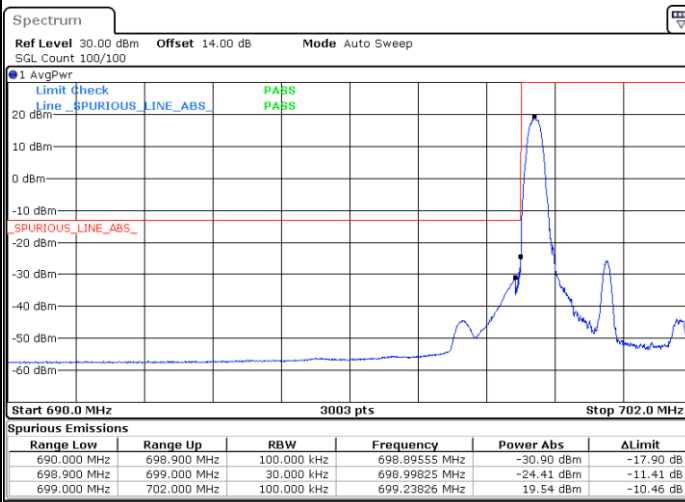


Date: 28.SEP.2023 12:29:11



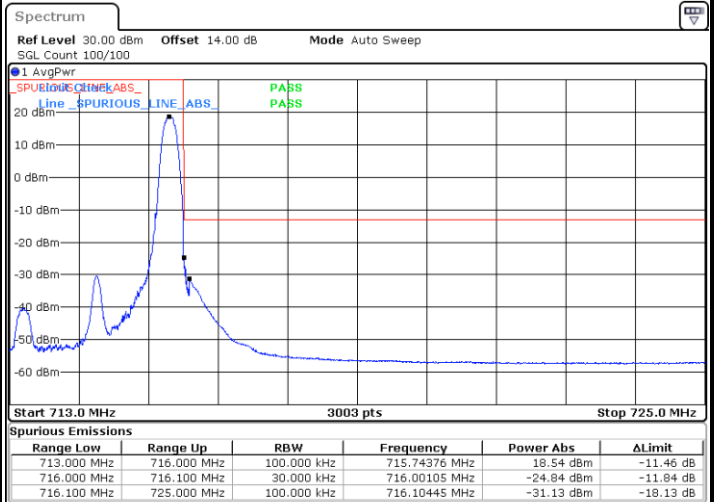
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



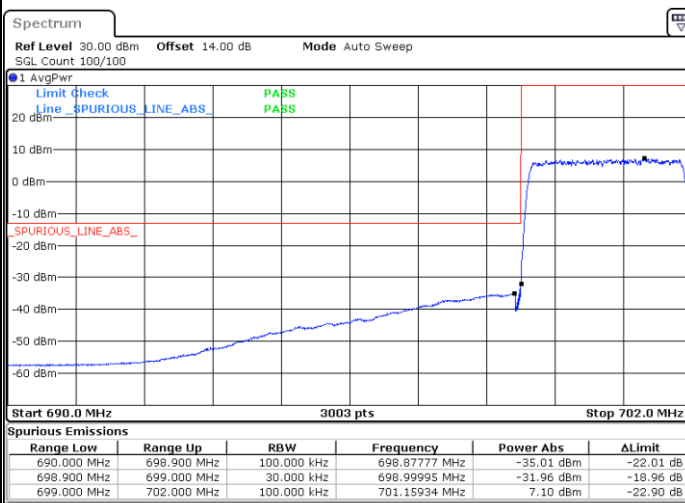
Date: 28.SEP.2023 12:18:25

Highest Band Edge / 1 RB



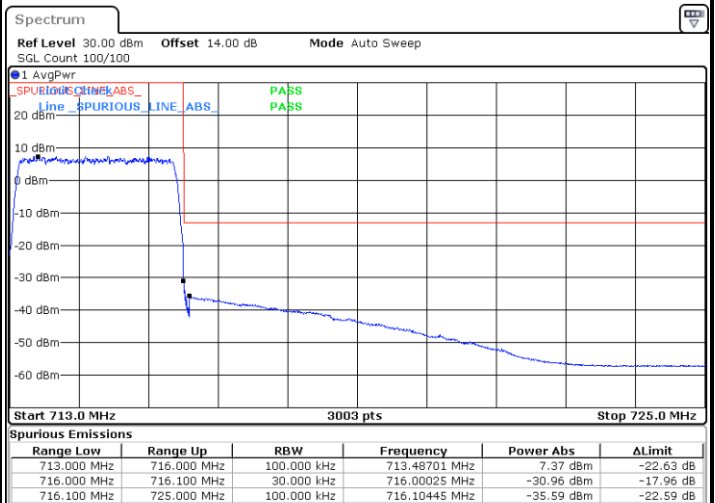
Date: 28.SEP.2023 12:27:26

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:21:00

Highest Band Edge / Full RB

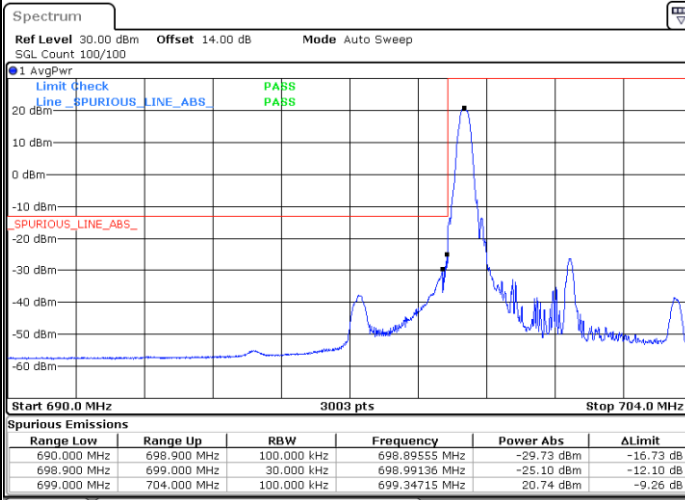


Date: 28.SEP.2023 12:30:02



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



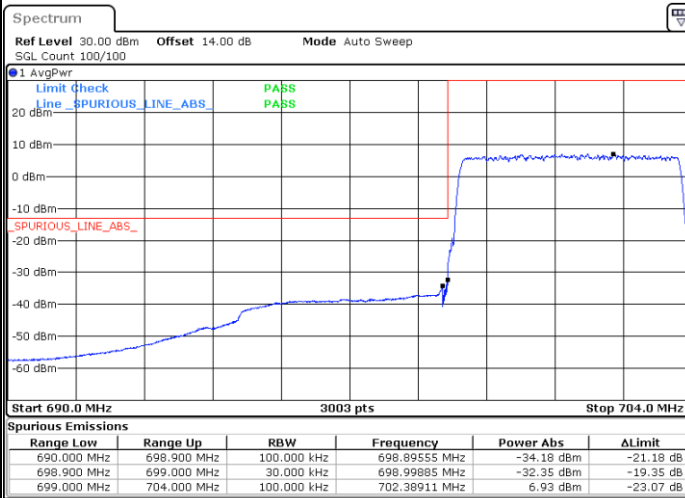
Date: 28.SEP.2023 12:32:12

Highest Band Edge / 1RB



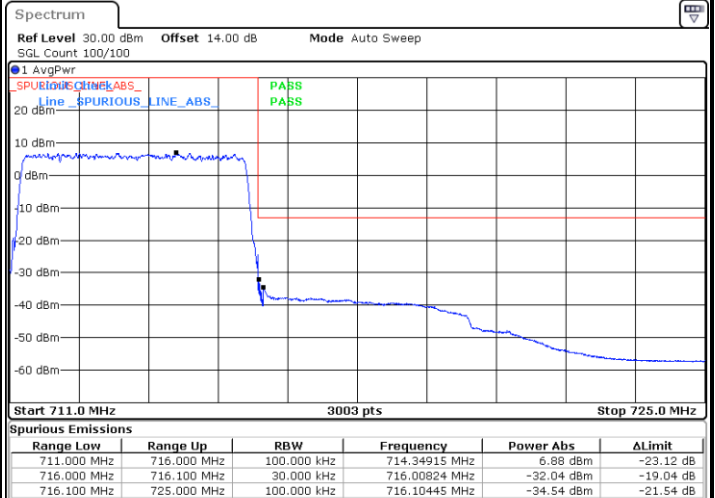
Date: 28.SEP.2023 12:41:11

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:34:46

Highest Band Edge / Full RB

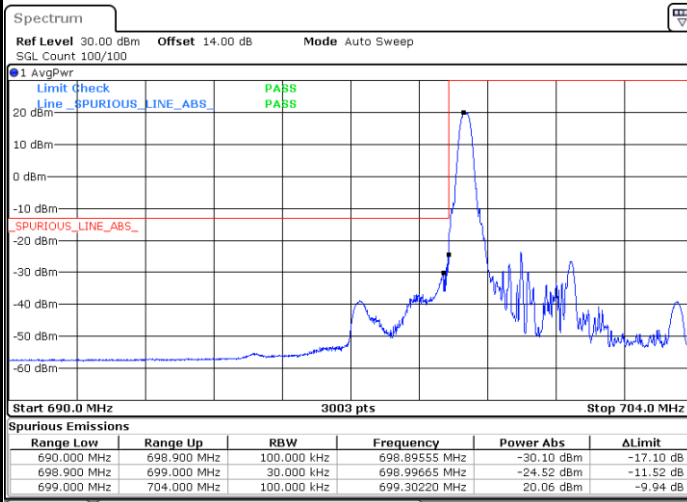


Date: 28.SEP.2023 12:43:47



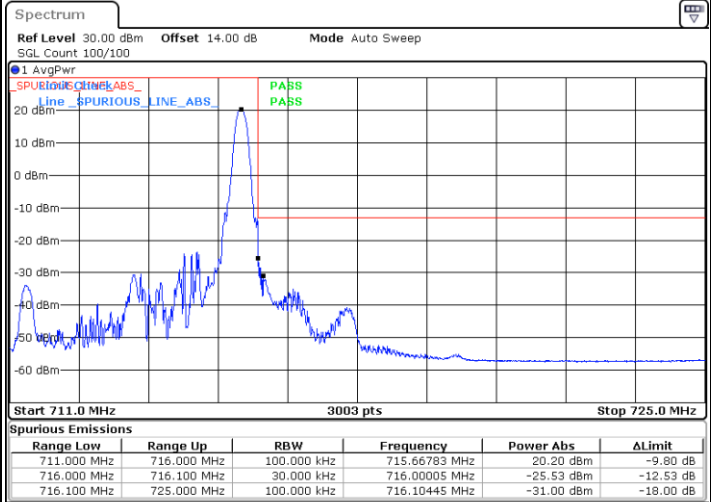
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



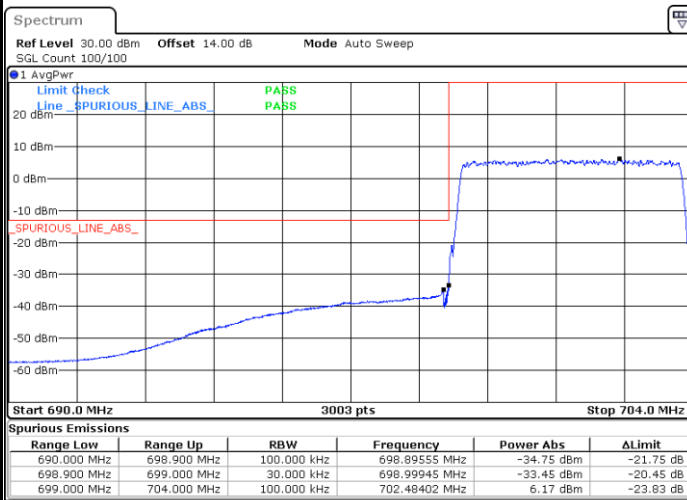
Date: 28.SEP.2023 12:33:03

Highest Band Edge / 1 RB



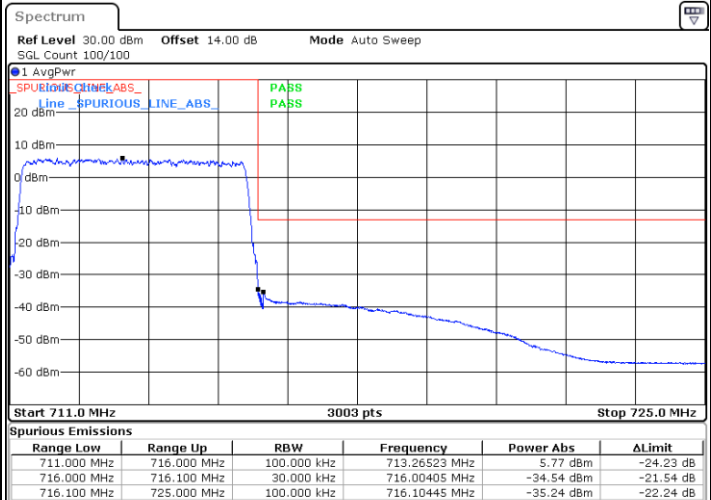
Date: 28.SEP.2023 12:42:03

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:35:38

Highest Band Edge / Full RB

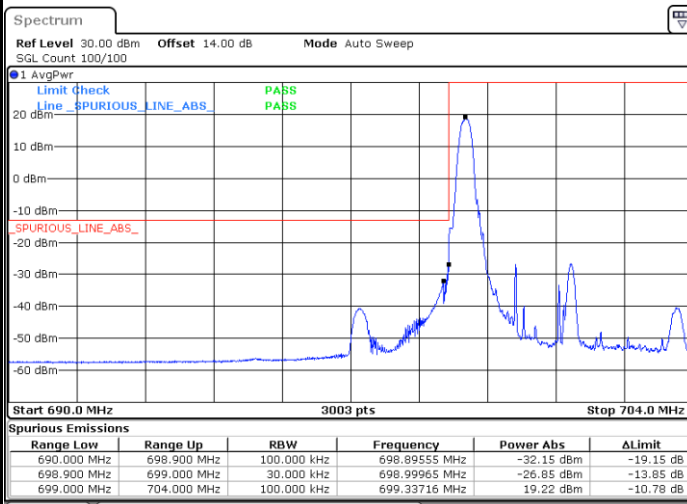


Date: 28.SEP.2023 13:22:05



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



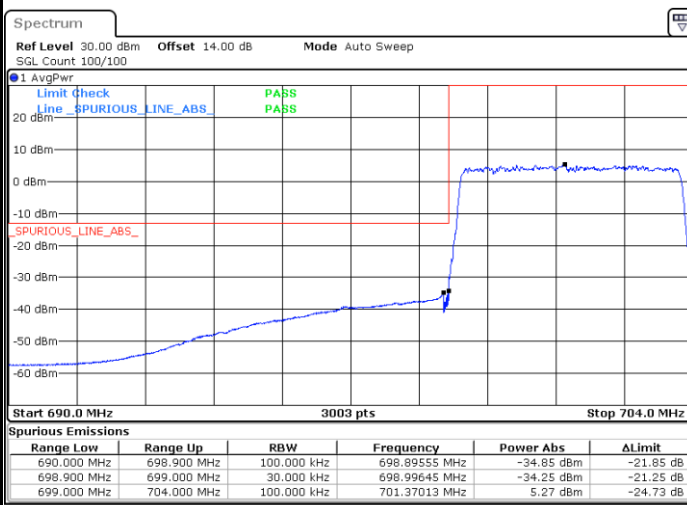
Date: 28.SEP.2023 12:33:55

Highest Band Edge / 1 RB



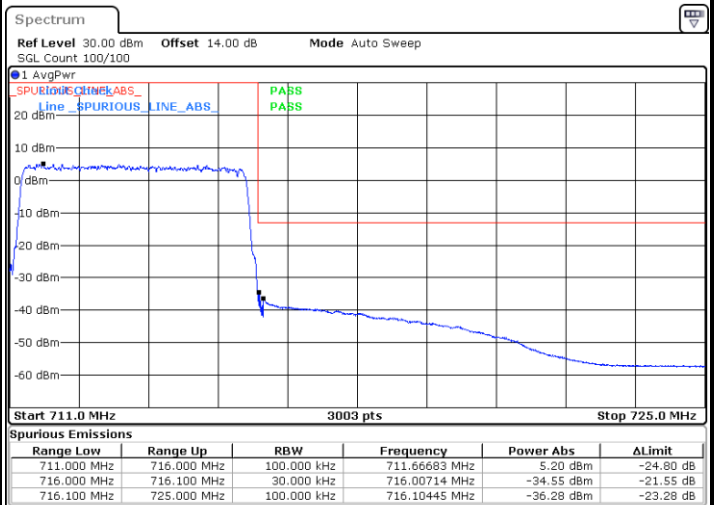
Date: 28.SEP.2023 12:42:54

Lowest Band Edge / Full RB



Date: 28.SEP.2023 12:36:29

Highest Band Edge / Full RB

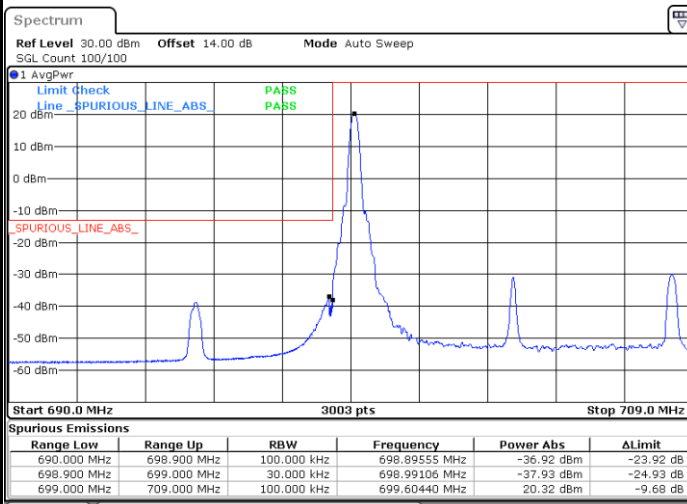


Date: 28.SEP.2023 13:22:56



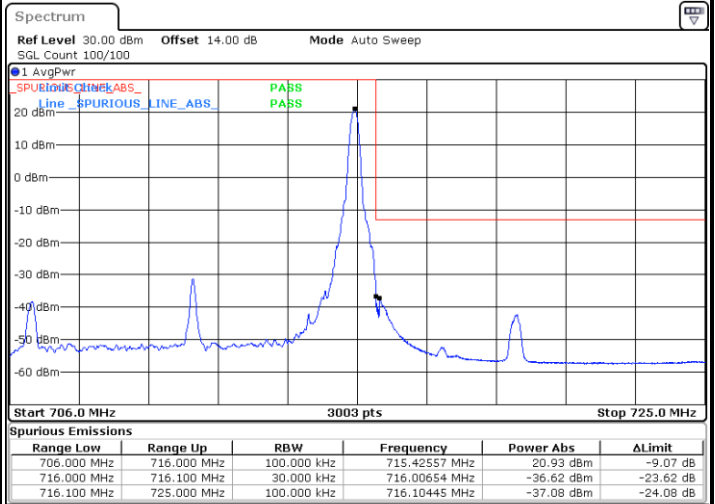
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



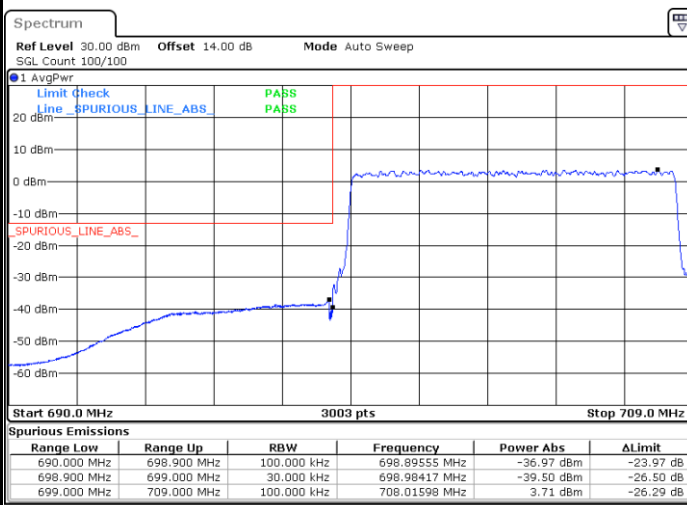
Date: 28.SEP.2023 13:25:05

Highest Band Edge / 1RB



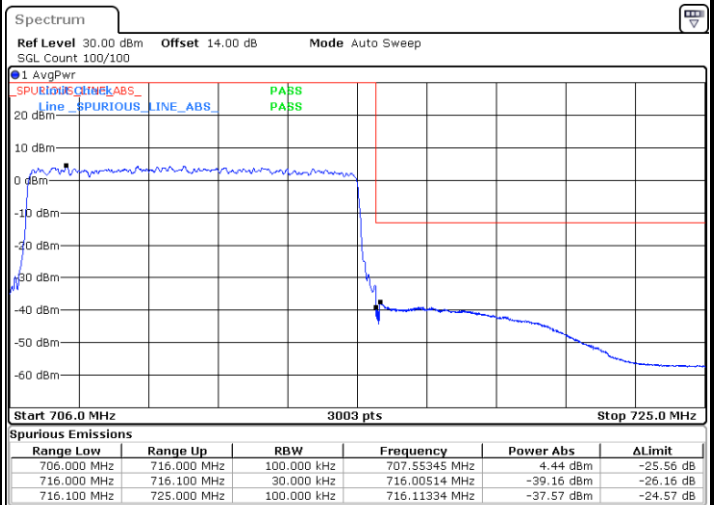
Date: 28.SEP.2023 13:34:06

Lowest Band Edge / Full RB



Date: 28.SEP.2023 13:27:40

Highest Band Edge / Full RB

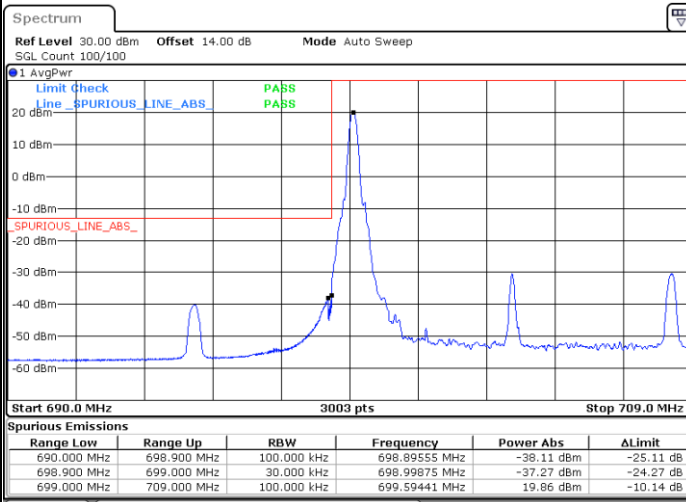


Date: 28.SEP.2023 13:36:41



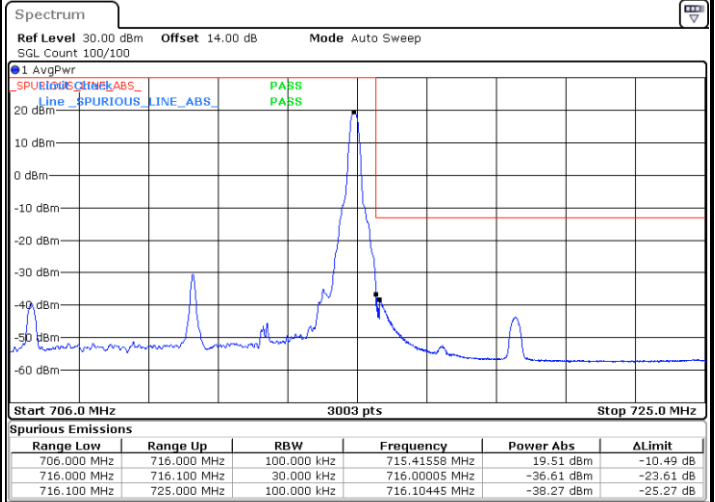
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



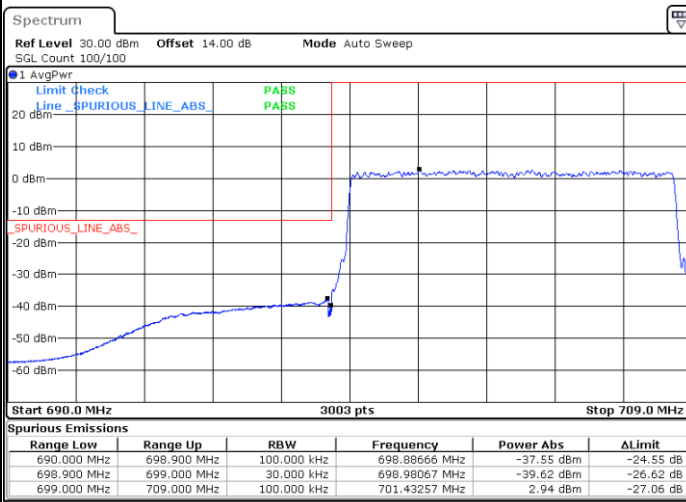
Date: 28.SEP.2023 13:25:57

Highest Band Edge / 1 RB



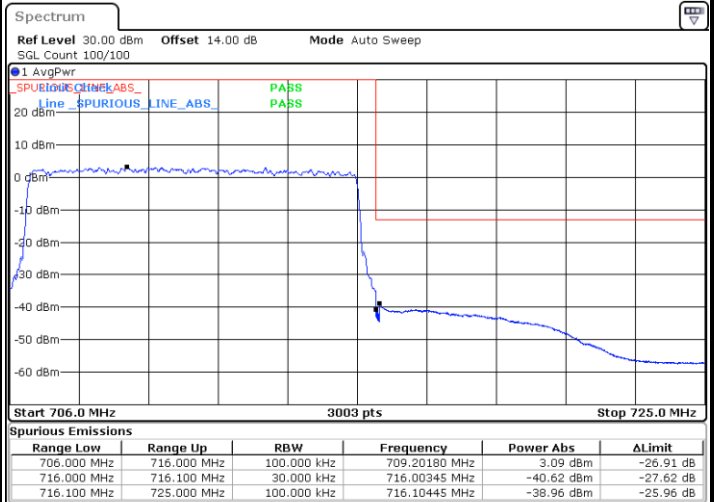
Date: 28.SEP.2023 13:34:58

Lowest Band Edge / Full RB



Date: 28.SEP.2023 13:28:32

Highest Band Edge / Full RB

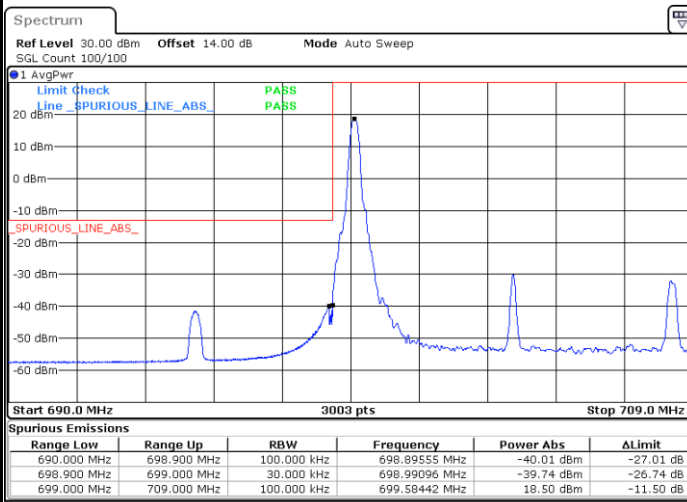


Date: 28.SEP.2023 13:37:33



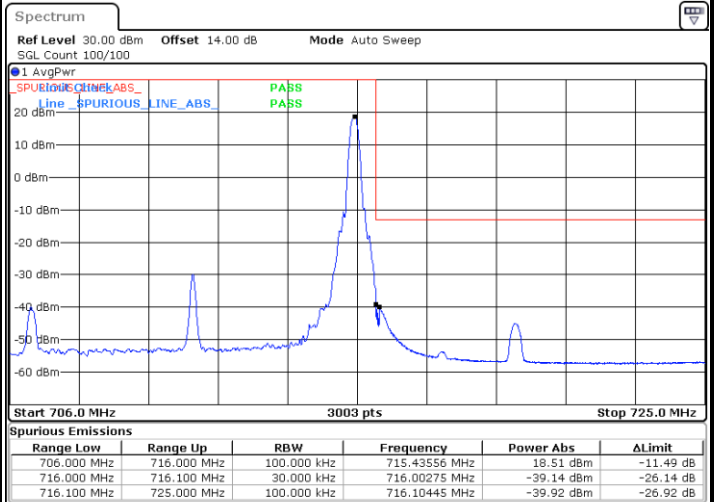
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



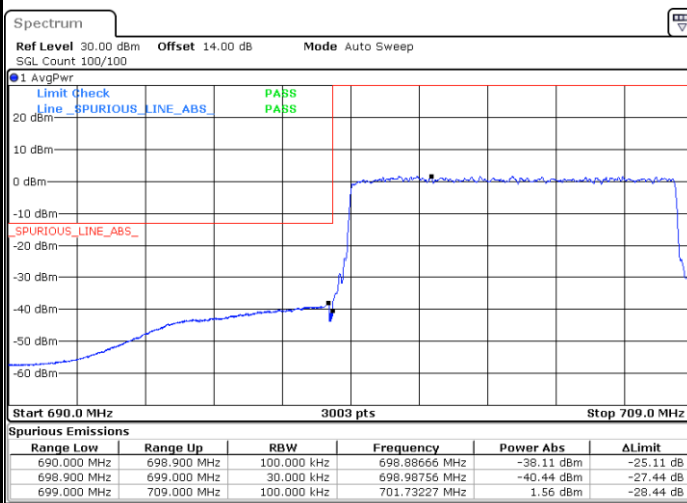
Date: 28.SEP.2023 13:26:49

Highest Band Edge / 1 RB



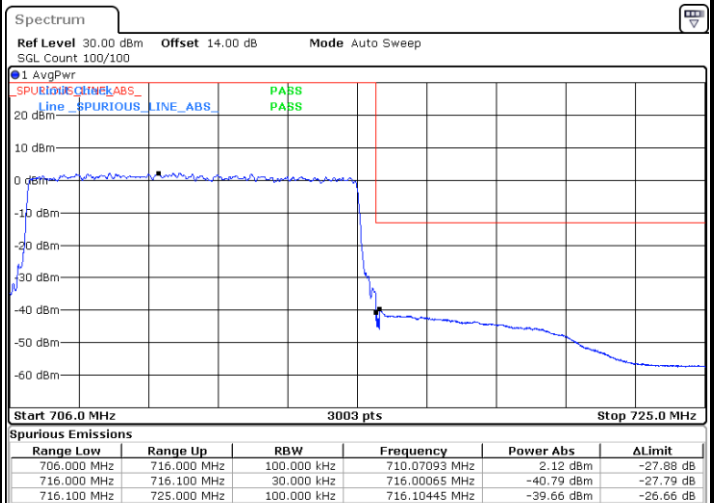
Date: 28.SEP.2023 13:35:49

Lowest Band Edge / Full RB



Date: 28.SEP.2023 13:29:24

Highest Band Edge / Full RB



Date: 28.SEP.2023 13:38:24



Conducted Spurious Emission

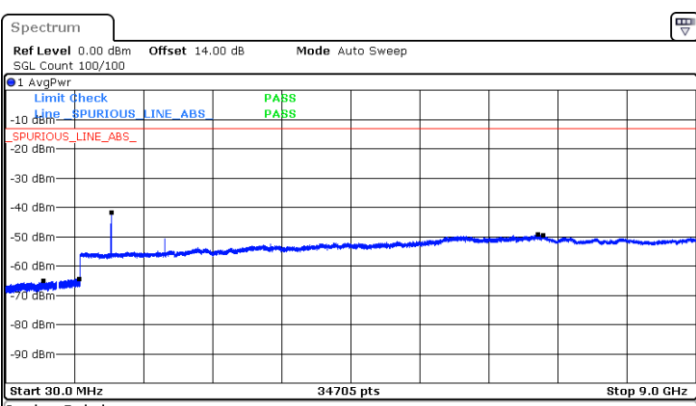




LTE Band 12 / 3MHz

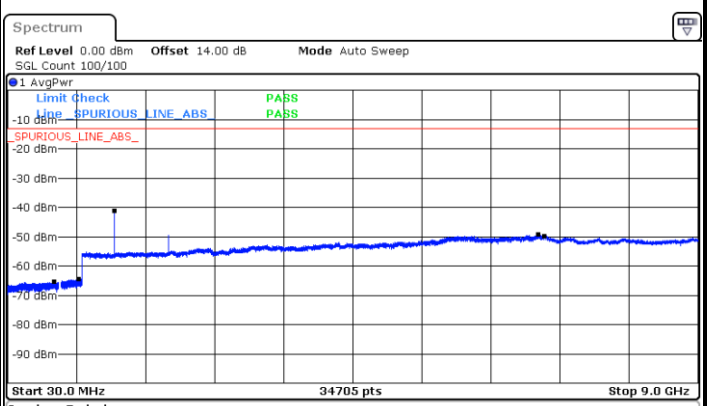
Lowest Channel / QPSK

Middle Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	522.68768 MHz	-65.18 dBm	-52.18 dB
725.000 MHz	1.000 GHz	100.000 kHz	978.32894 MHz	-64.37 dBm	-51.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-41.73 dBm	-28.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94676 GHz	-49.33 dBm	-36.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01425 GHz	-49.56 dBm	-36.56 dB

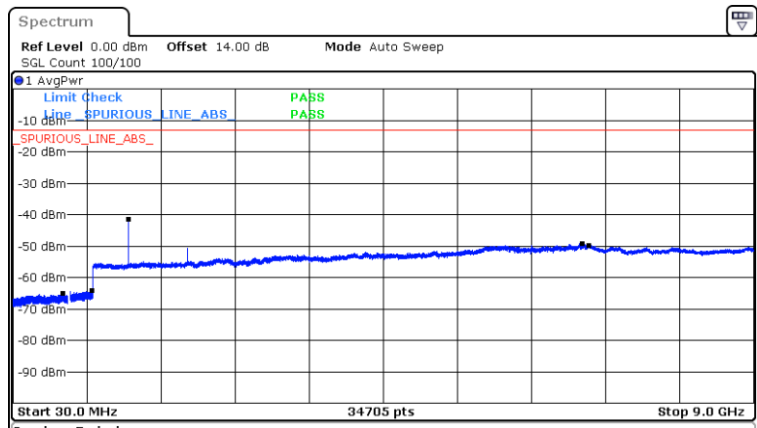
Date: 28.SEP.2023 12:22:17



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	630.82948 MHz	-65.23 dBm	-52.23 dB
725.000 MHz	1.000 GHz	100.000 kHz	949.43419 MHz	-64.43 dBm	-51.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-41.29 dBm	-28.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92626 GHz	-49.34 dBm	-36.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00025 GHz	-49.72 dBm	-36.72 dB

Date: 28.SEP.2023 12:23:32

Highest Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	634.57920 MHz	-65.16 dBm	-52.16 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.32749 MHz	-64.29 dBm	-51.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-41.35 dBm	-28.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91976 GHz	-49.29 dBm	-36.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00675 GHz	-49.80 dBm	-36.80 dB

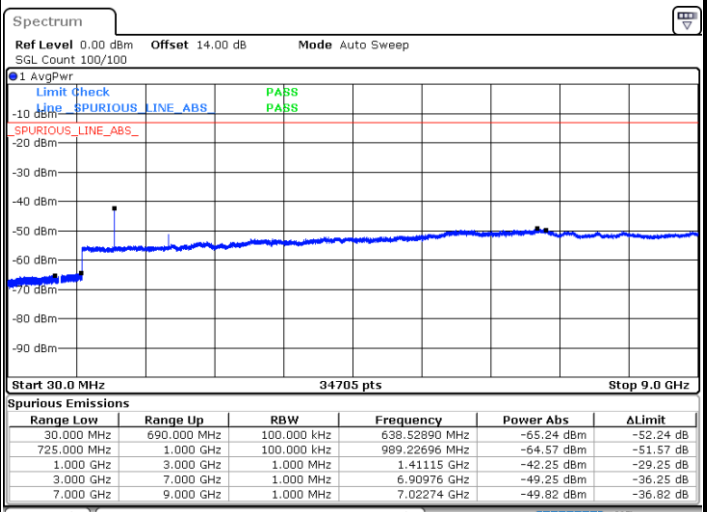
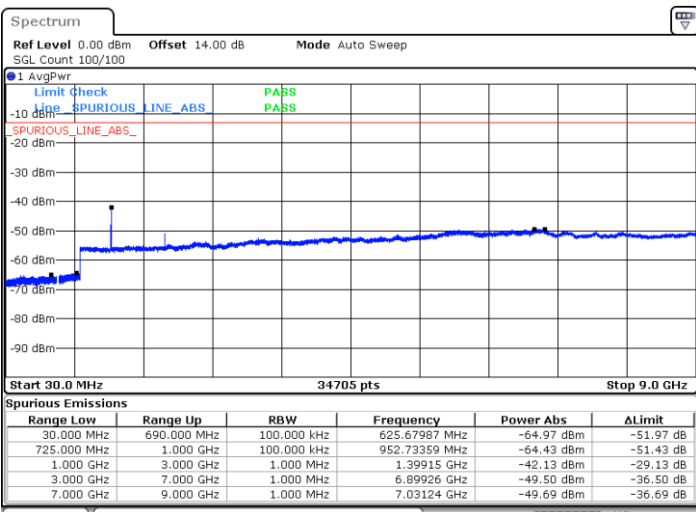
Date: 28.SEP.2023 12:31:18



LTE Band 12 / 5MHz

Lowest Channel / QPSK

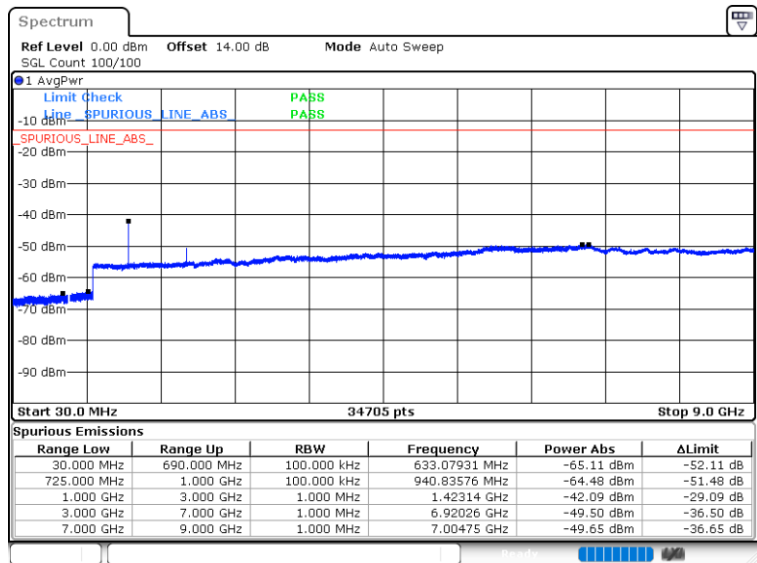
Middle Channel / QPSK



Date: 28.SEP.2023 12:37:45

Date: 28.SEP.2023 12:39:00

Highest Channel / QPSK



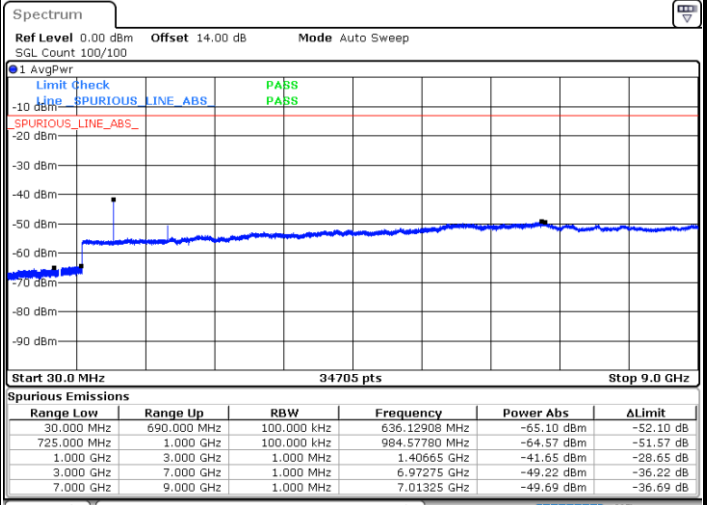
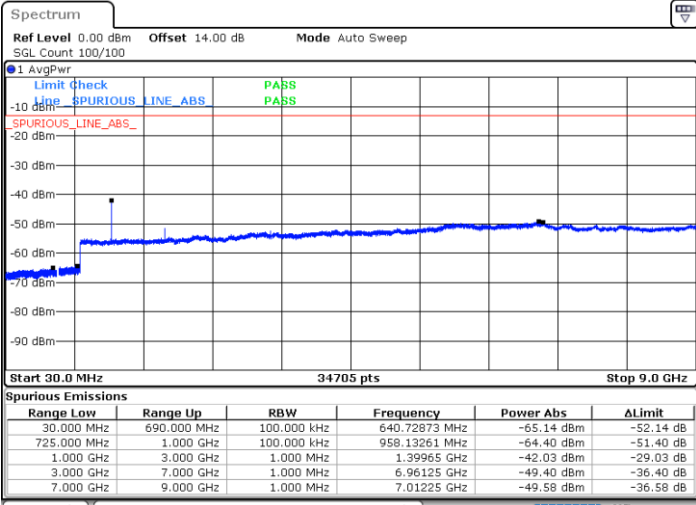
Date: 28.SEP.2023 13:24:12



LTE Band 12 / 10MHz

Lowest Channel / QPSK

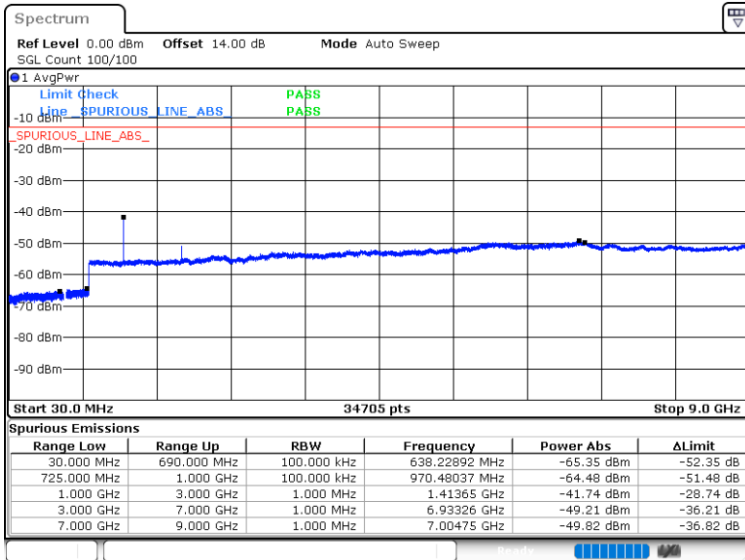
Middle Channel / QPSK



Date: 28.SEP.2023 13:30:40

Date: 28.SEP.2023 13:31:55

Highest Channel / QPSK



Date: 28.SEP.2023 13:39:41



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	0.0011	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

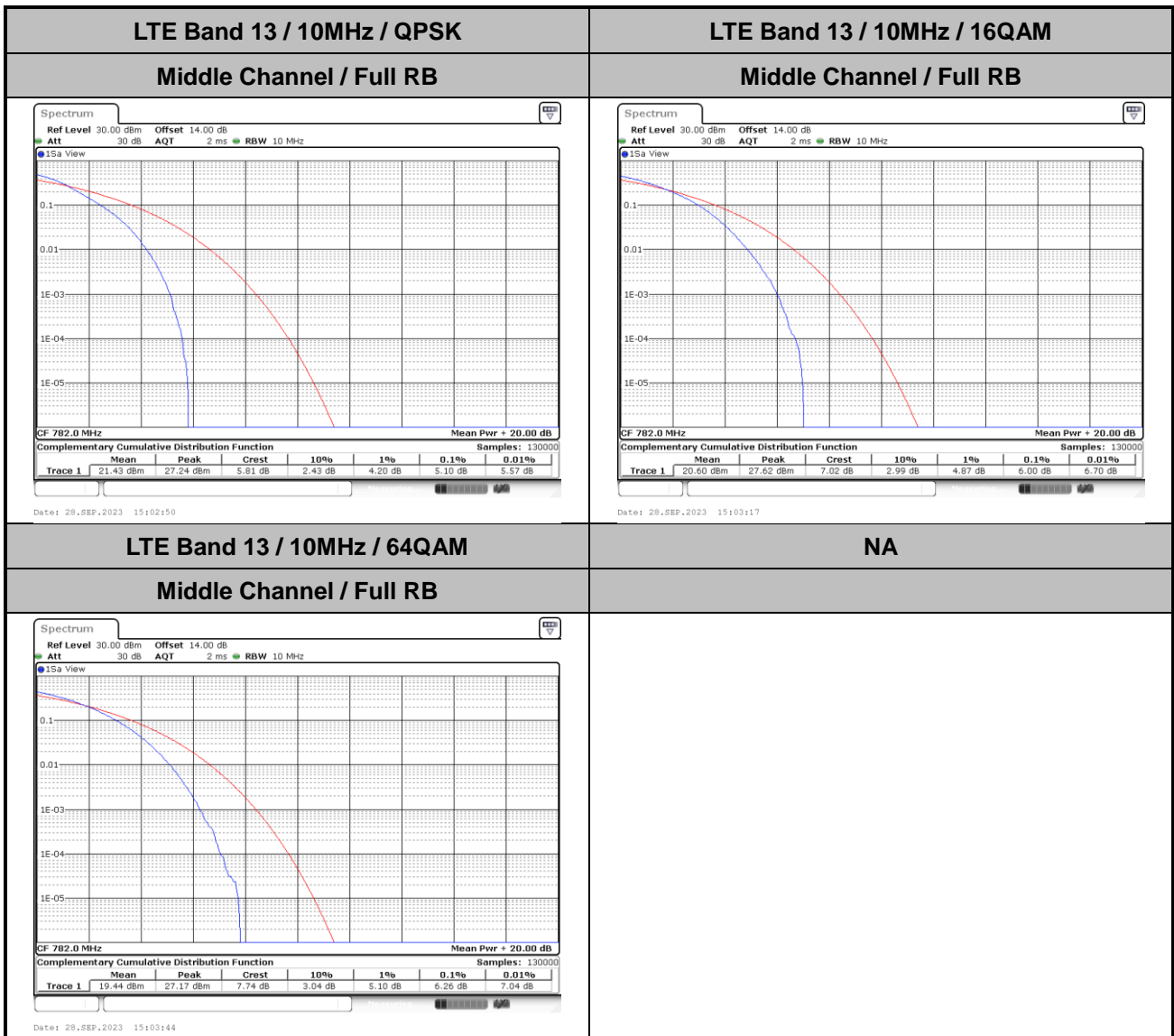
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

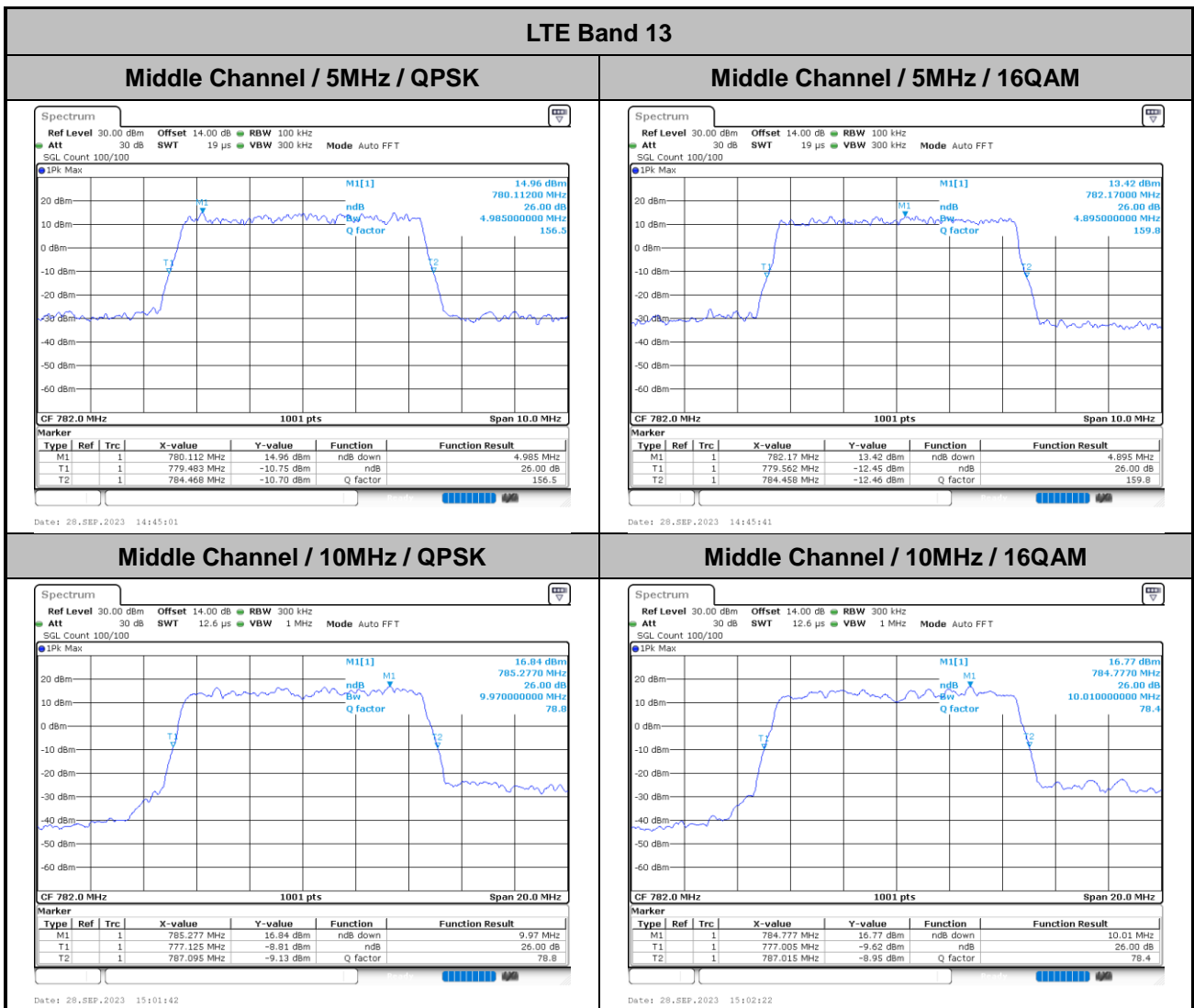
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.10	6.00	6.26	PASS





26dB Bandwidth

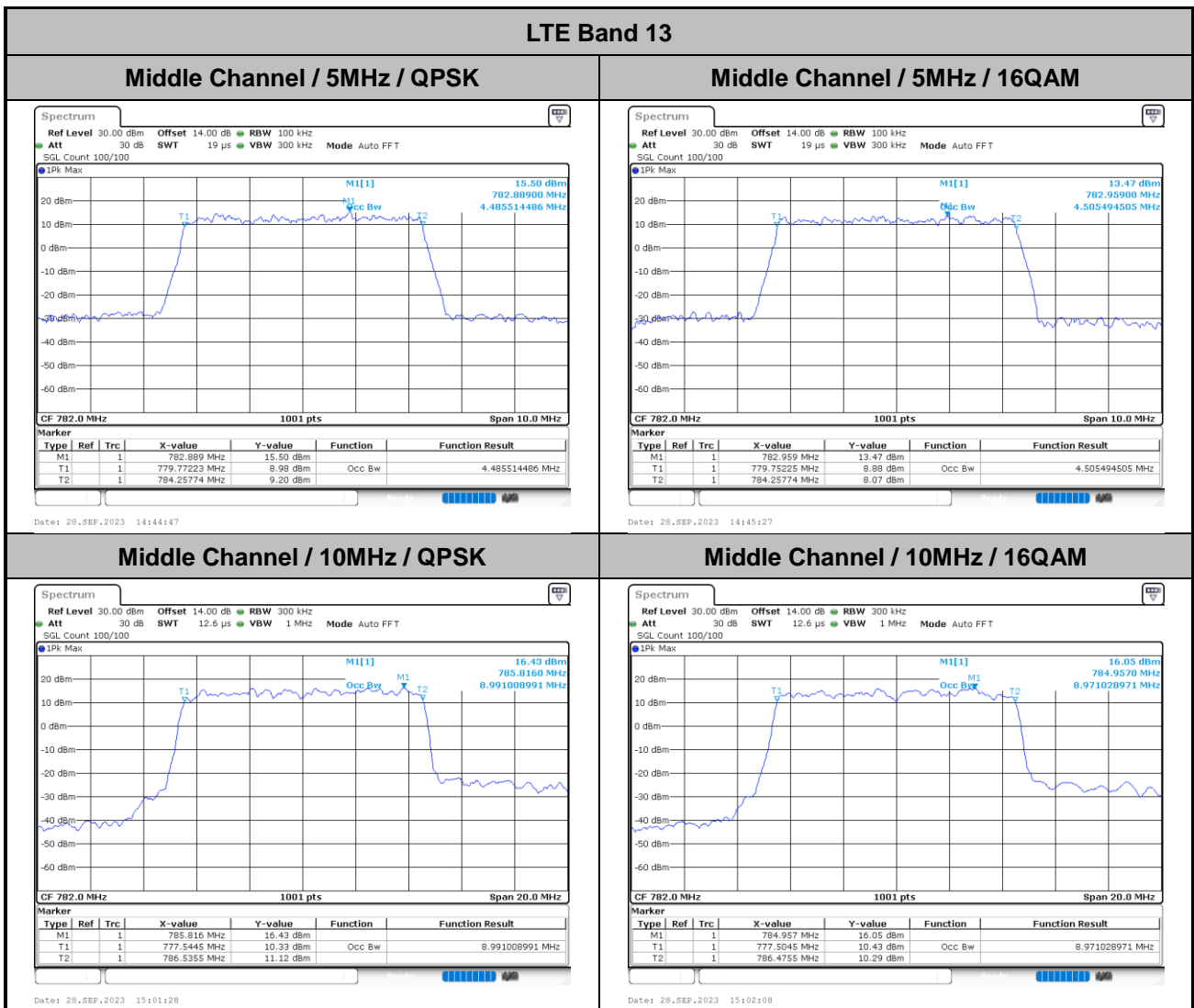
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	-			5MHz			10MHz			-		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	-	-	-	-	4.99	4.90	9.97	10.01	-	-	-	-





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	-			5MHz			10MHz			-		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	-	-	-	-	4.49	4.51	8.99	8.97	-	-	-	-



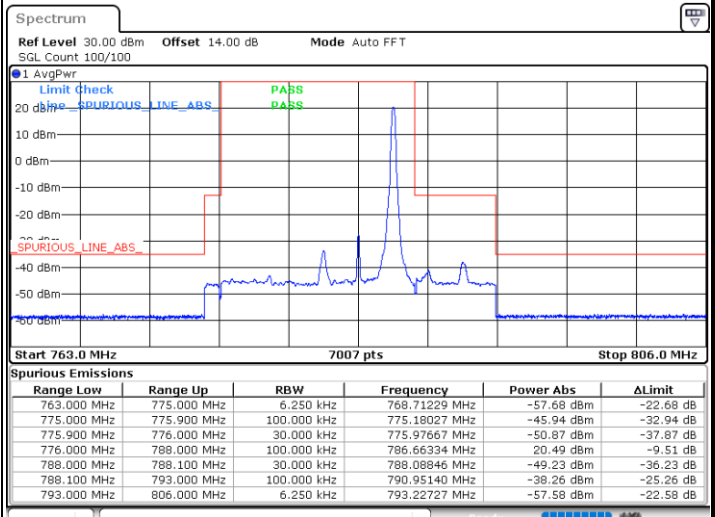
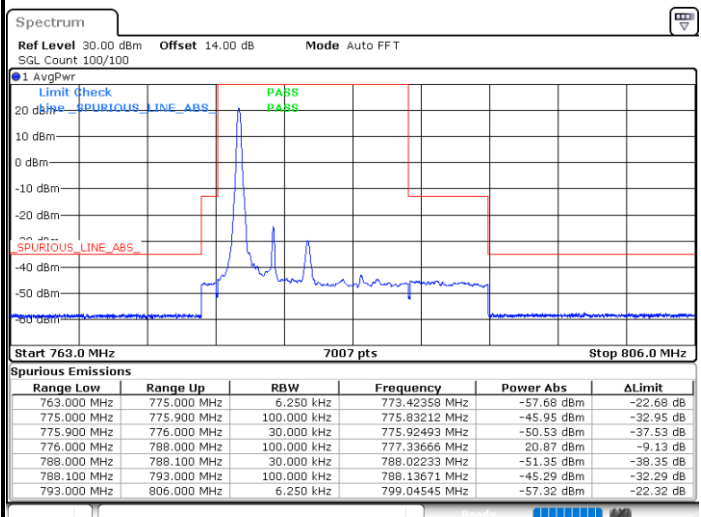


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

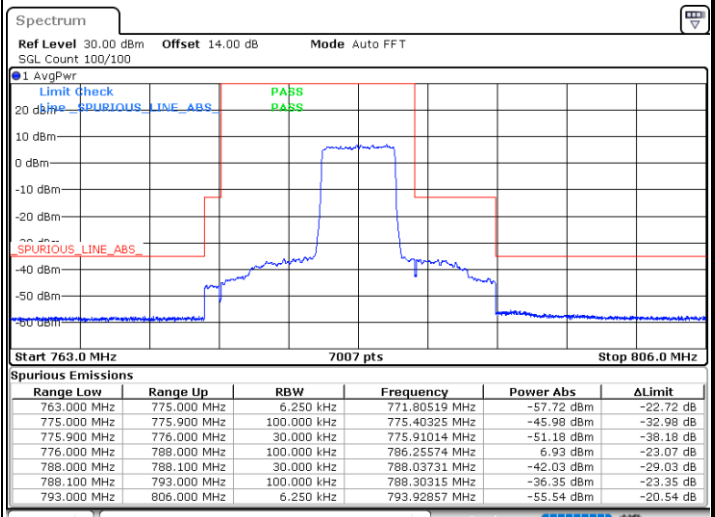
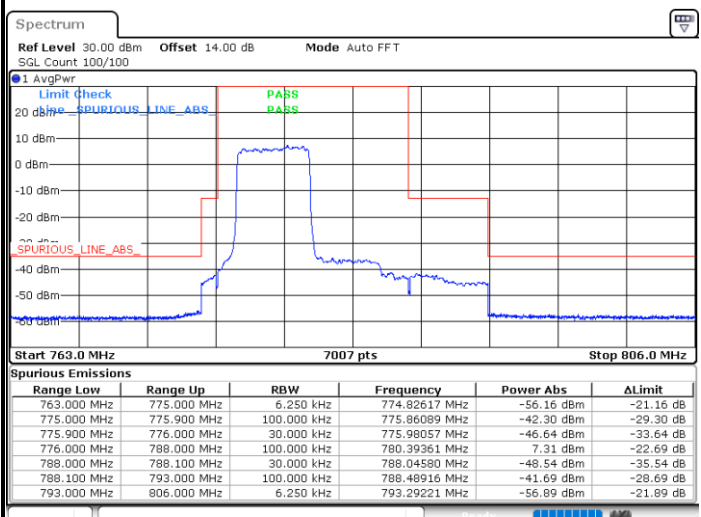


Date: 28.SEP.2023 14:37:29

Date: 28.SEP.2023 14:46:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.SEP.2023 14:40:05

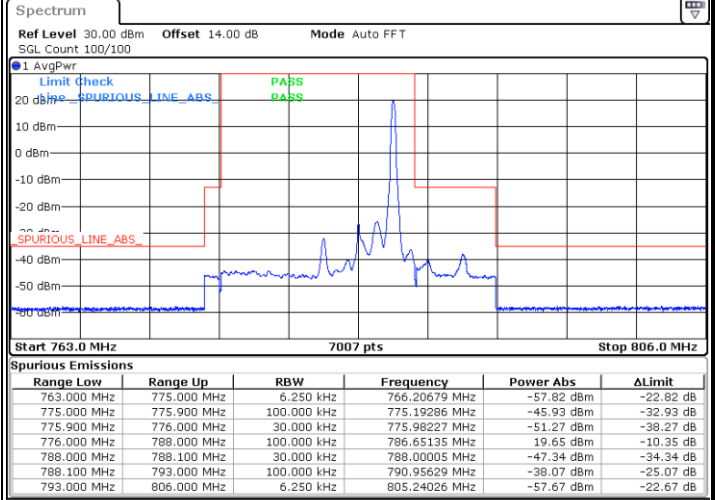
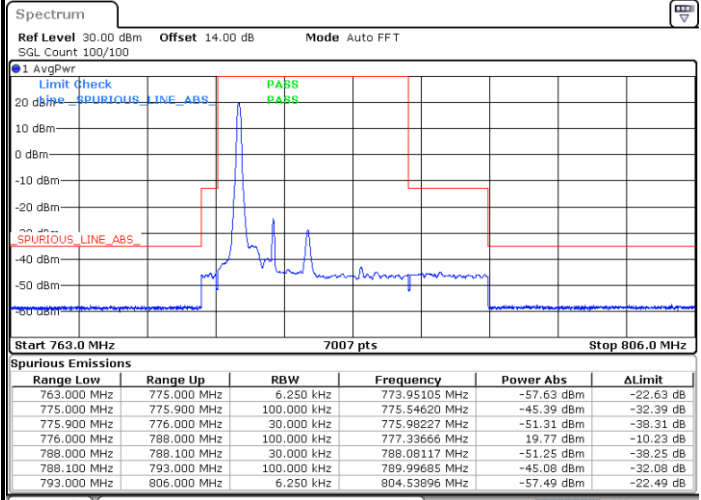
Date: 28.SEP.2023 14:49:06



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

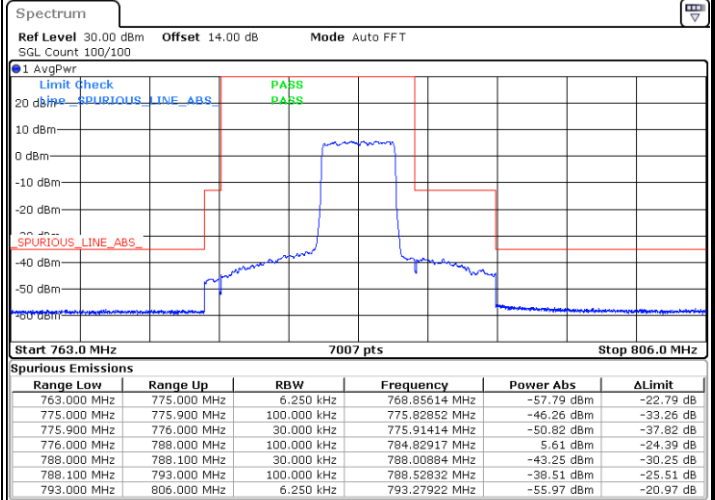
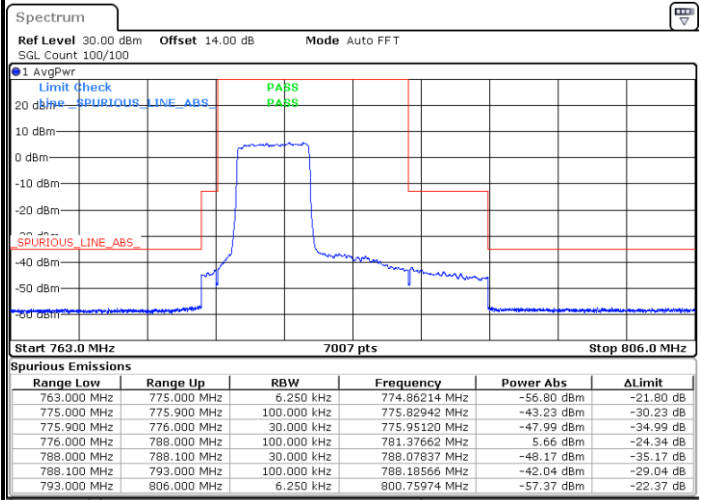


Date: 28.SEP.2023 14:38:20

Date: 28.SEP.2023 14:47:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.SEP.2023 14:40:56

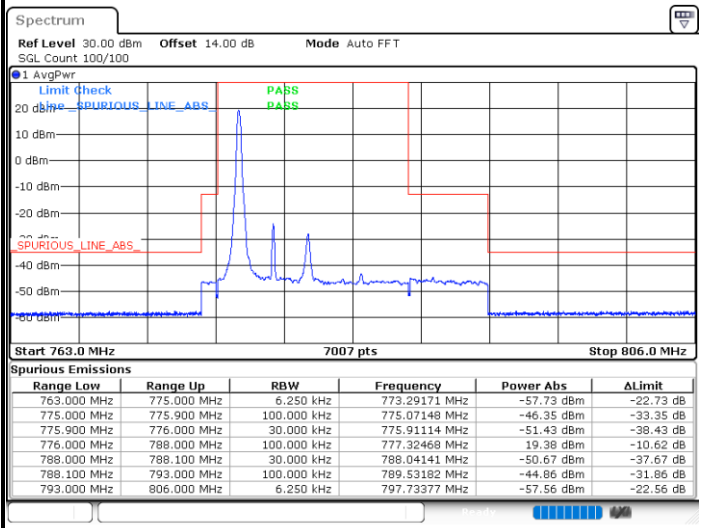
Date: 28.SEP.2023 14:49:58



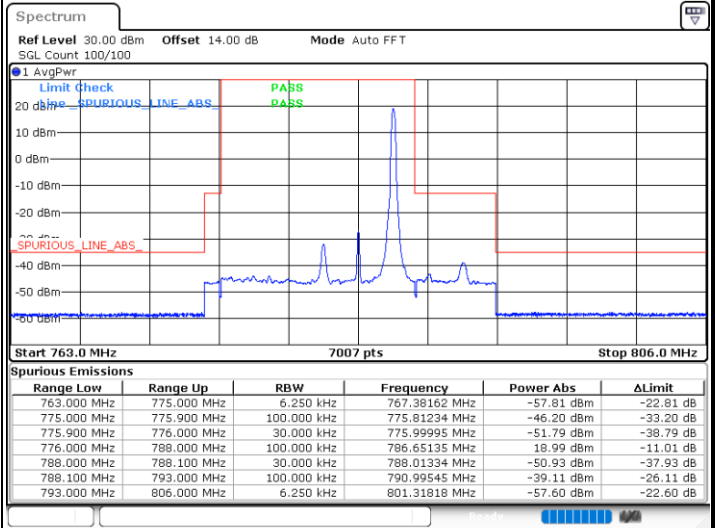
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



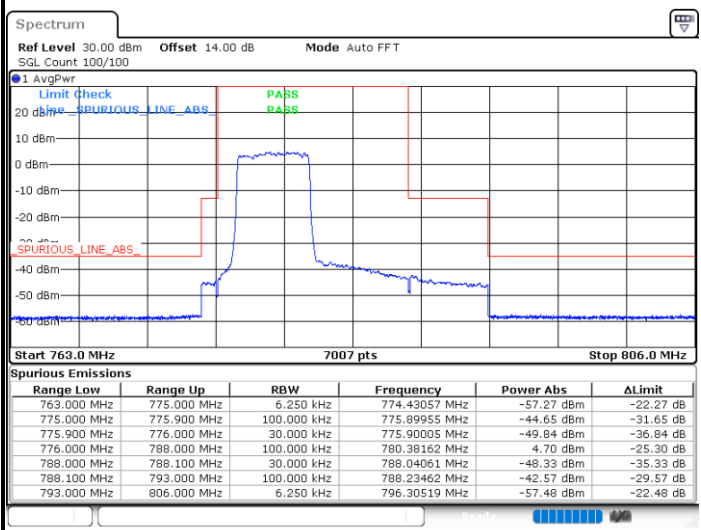
Date: 28.SEP.2023 14:39:12



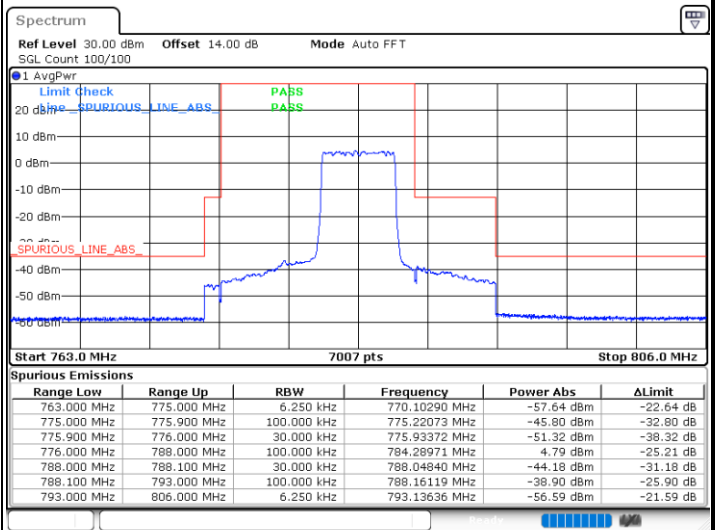
Date: 28.SEP.2023 14:48:14

Lowest Band Edge / Full RB

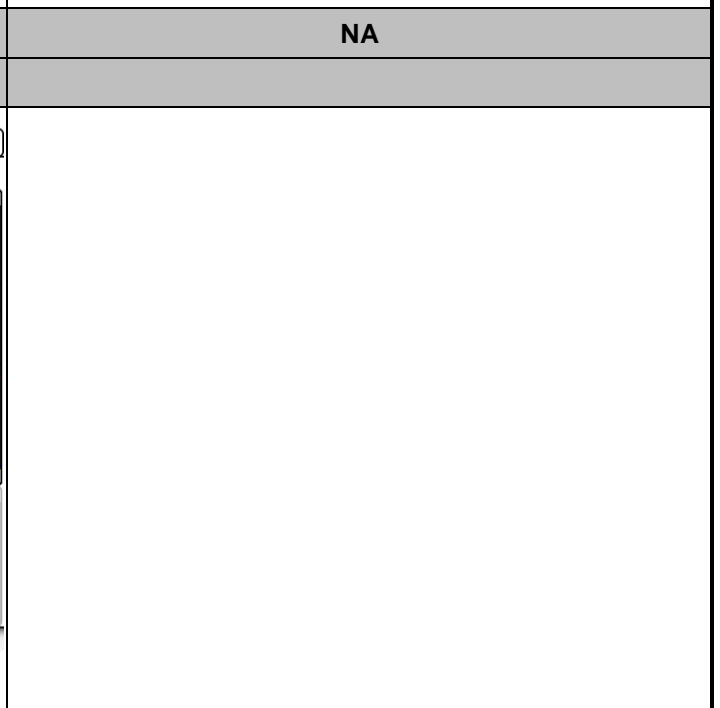
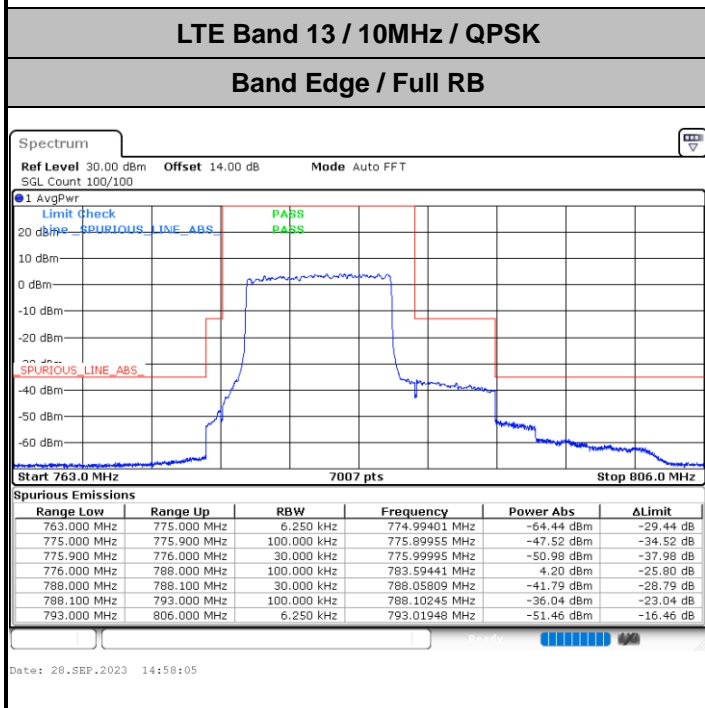
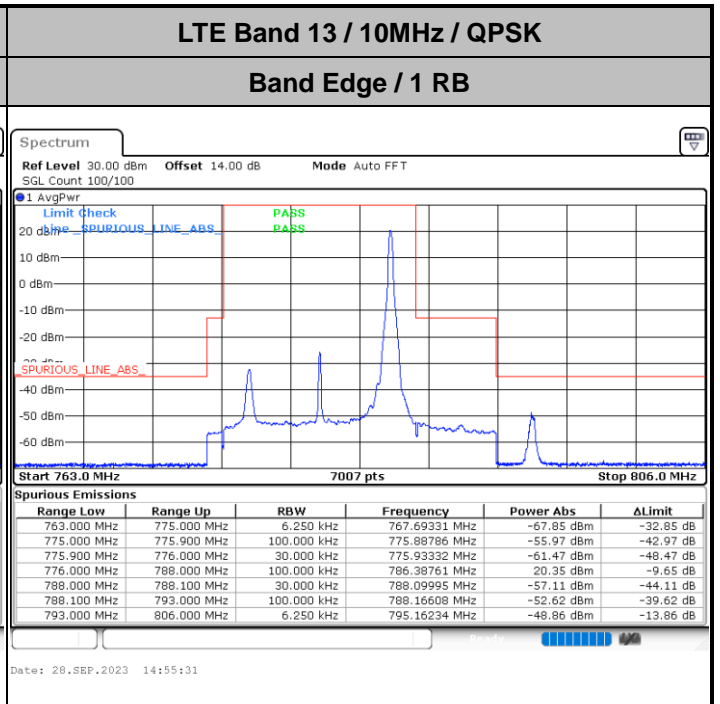
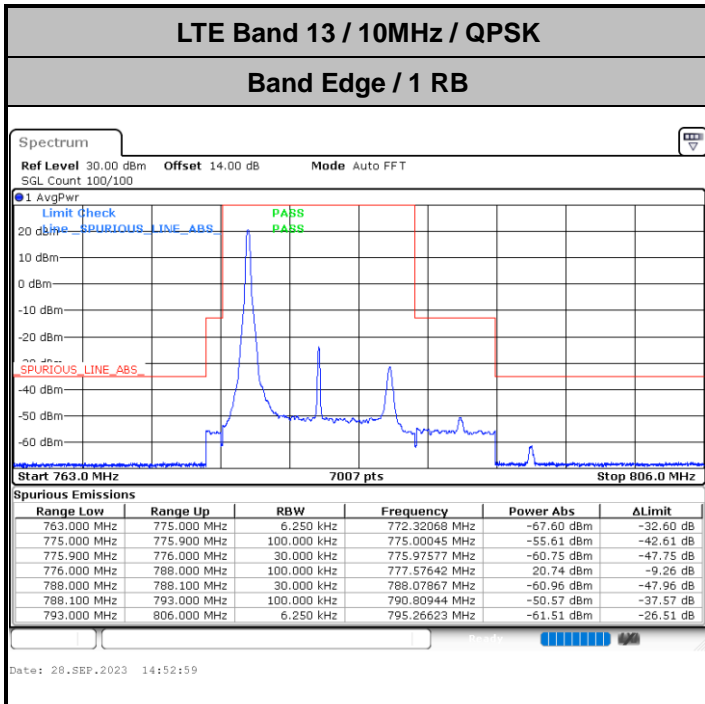
Highest Band Edge / Full RB

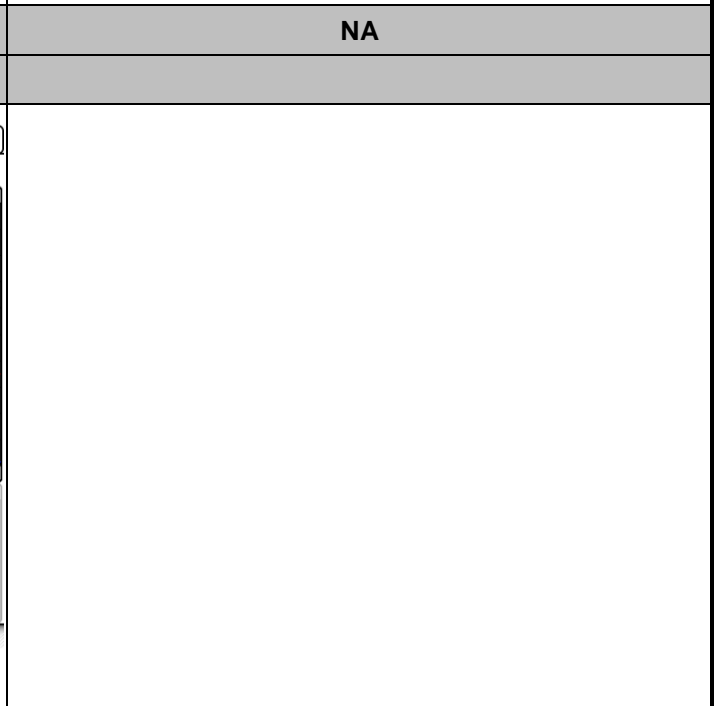
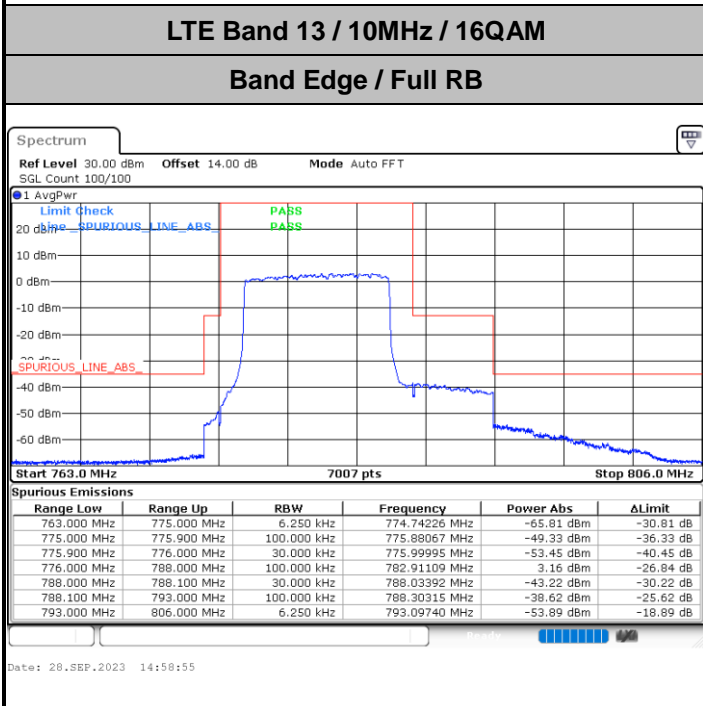
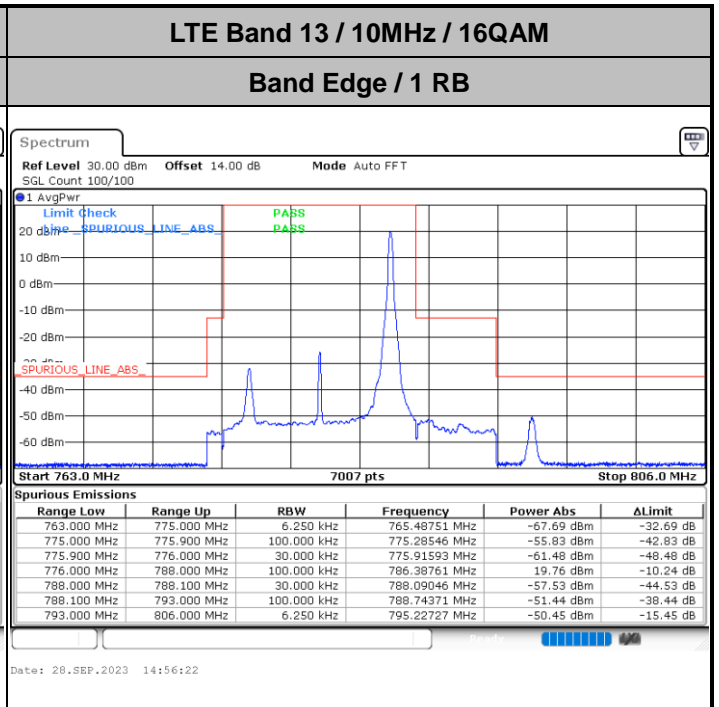
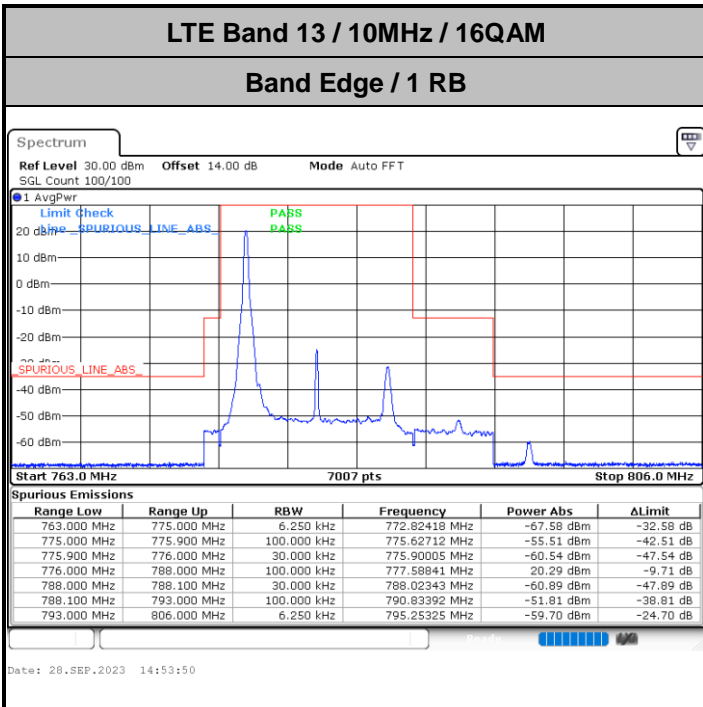


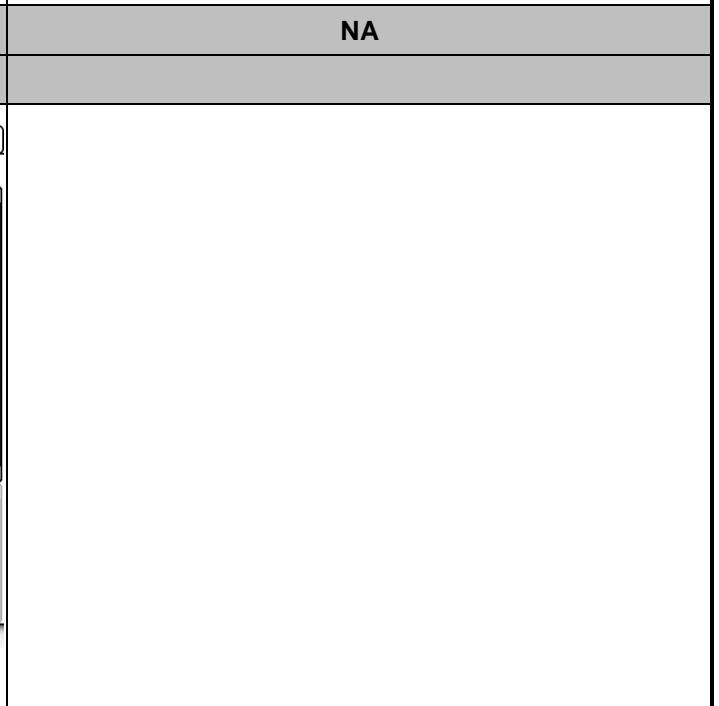
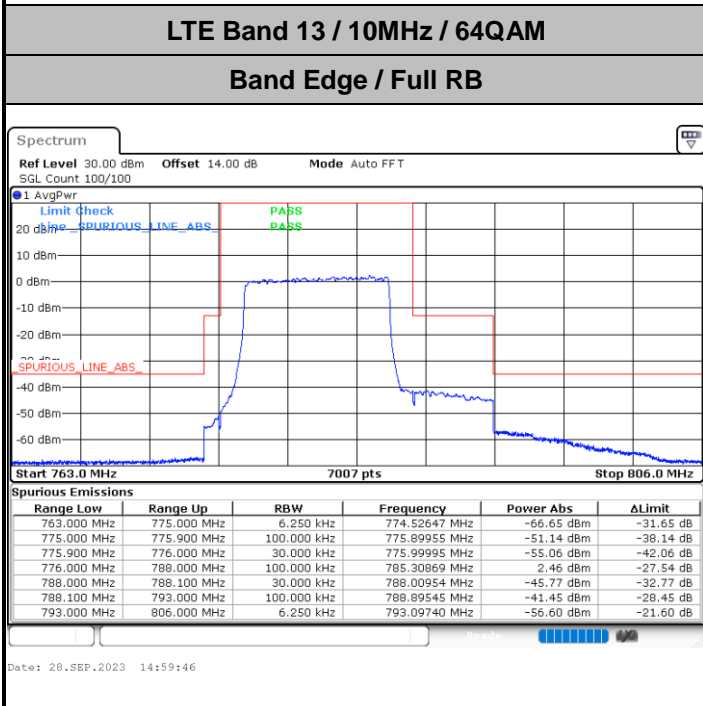
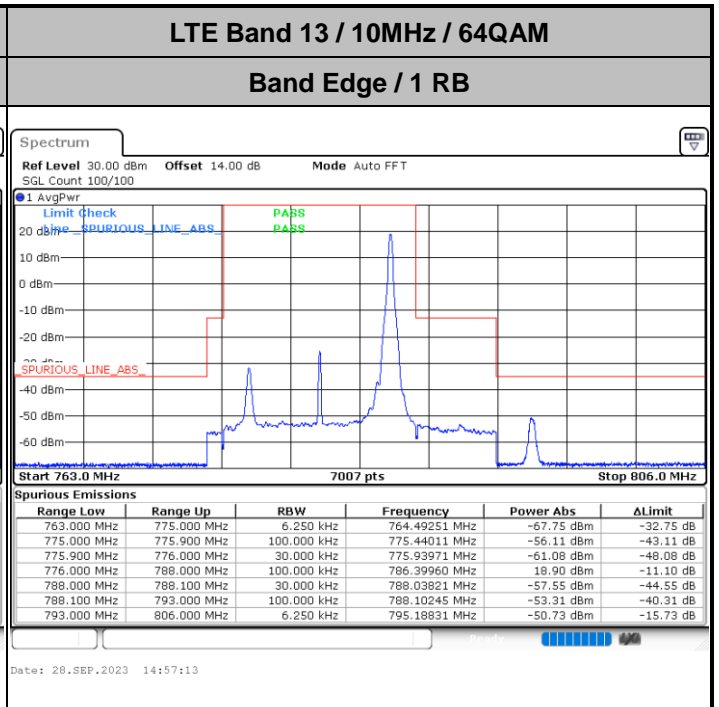
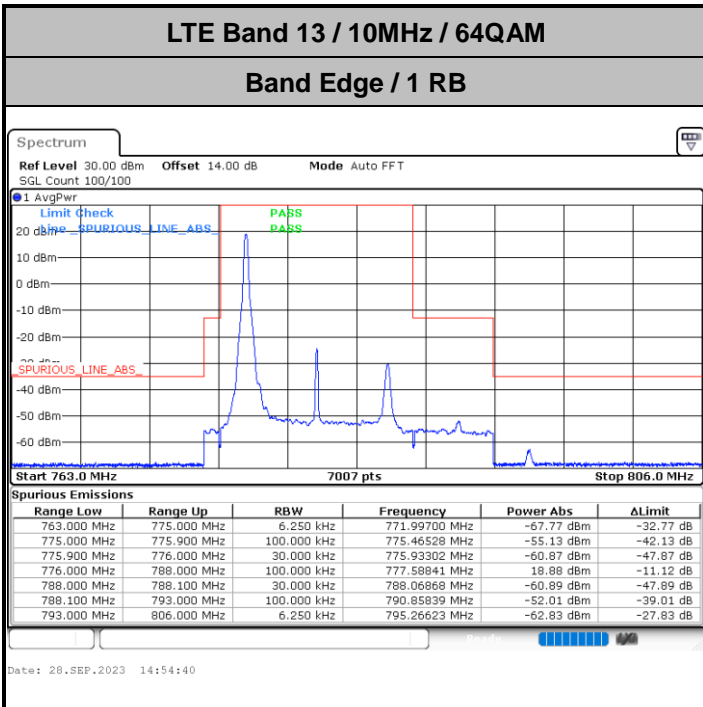
Date: 28.SEP.2023 14:41:49



Date: 28.SEP.2023 14:50:49









Conducted Spurious Emission

