

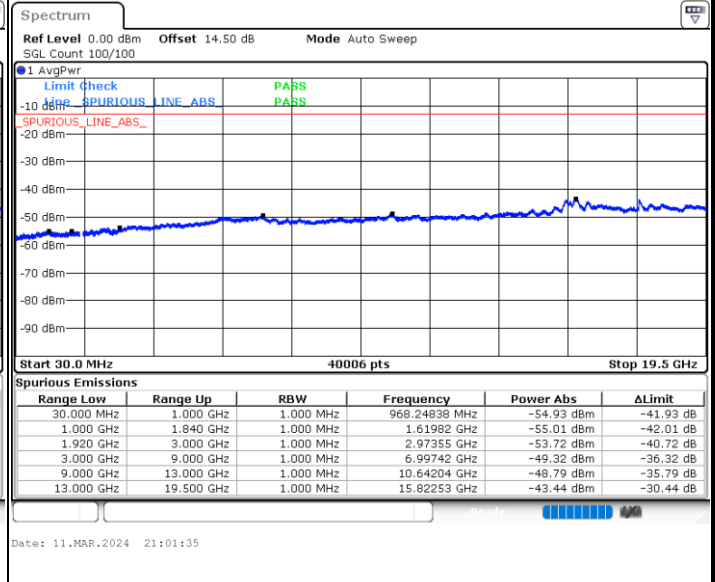
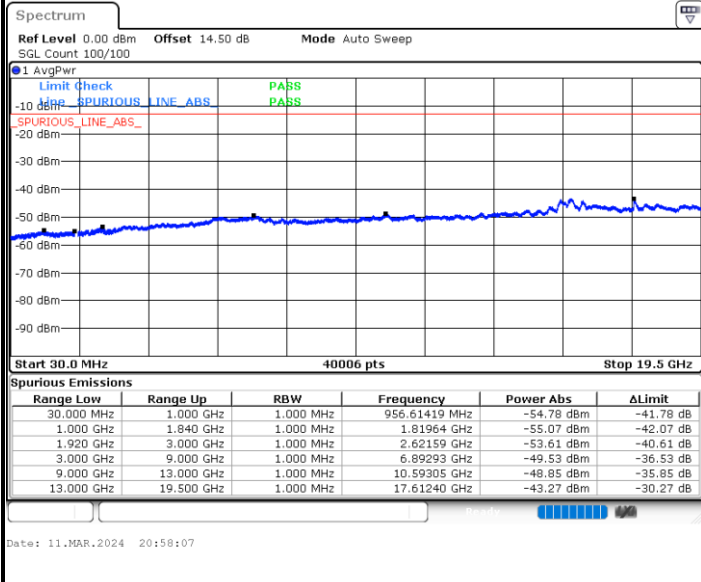


Conducted Spurious Emission

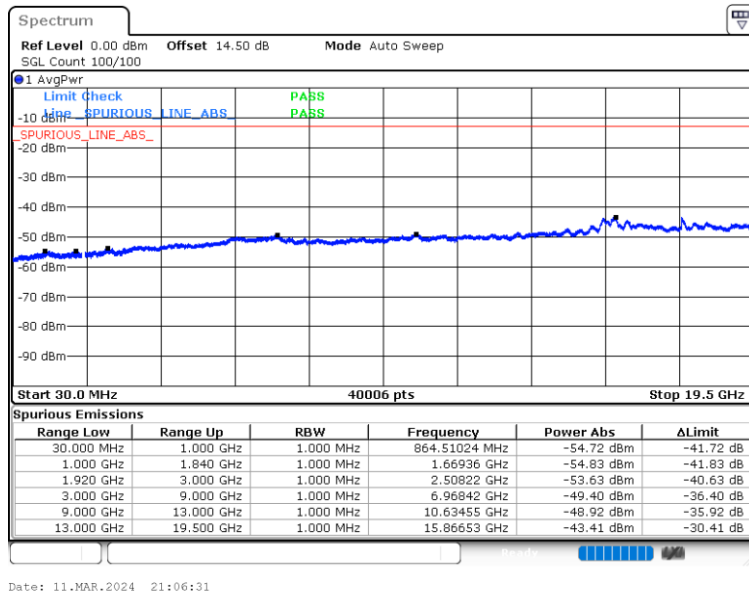
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

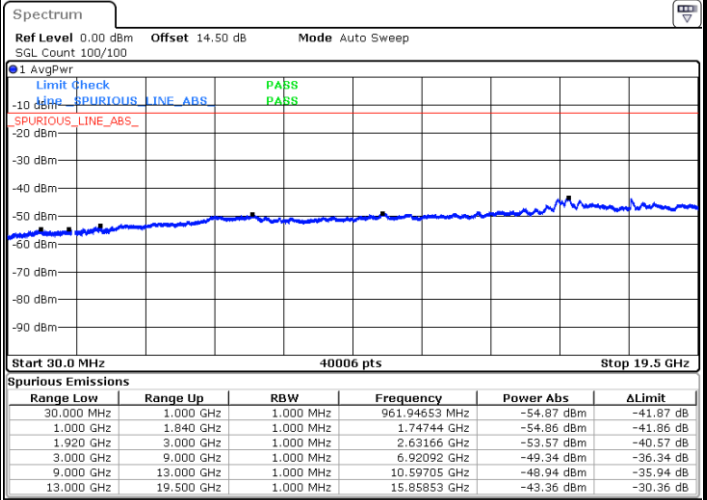
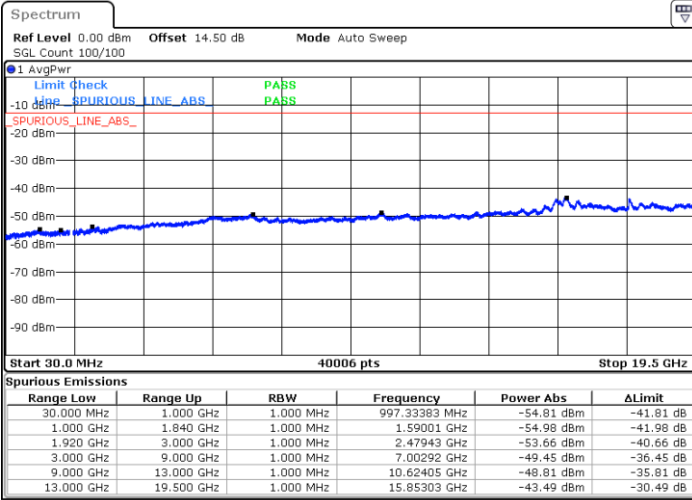




LTE Band 2 / 3MHz

Lowest Channel / QPSK

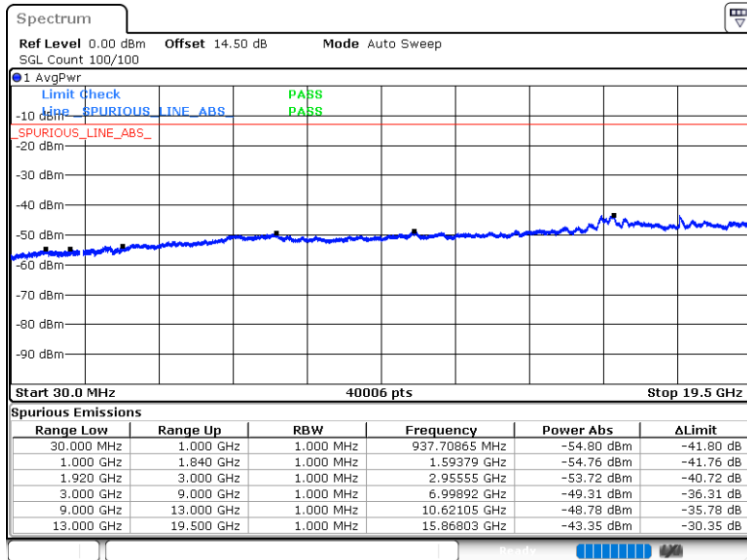
Middle Channel / QPSK



Date: 11.MAR.2024 21:12:58

Date: 11.MAR.2024 21:16:25

Highest Channel / QPSK



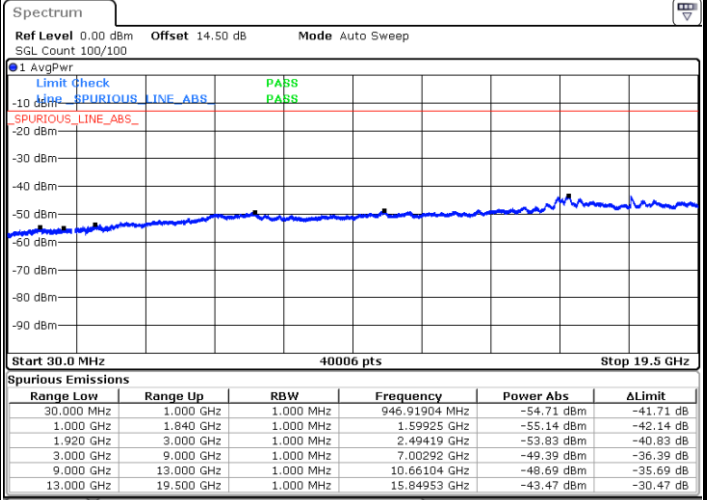
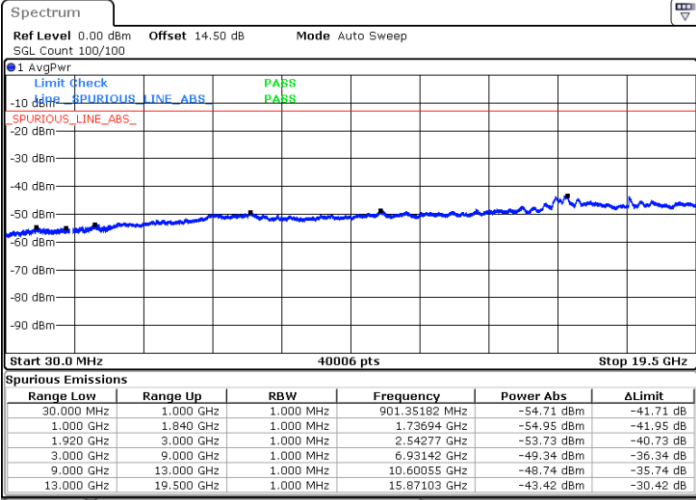
Date: 11.MAR.2024 21:23:28



LTE Band 2 / 5MHz

Lowest Channel / QPSK

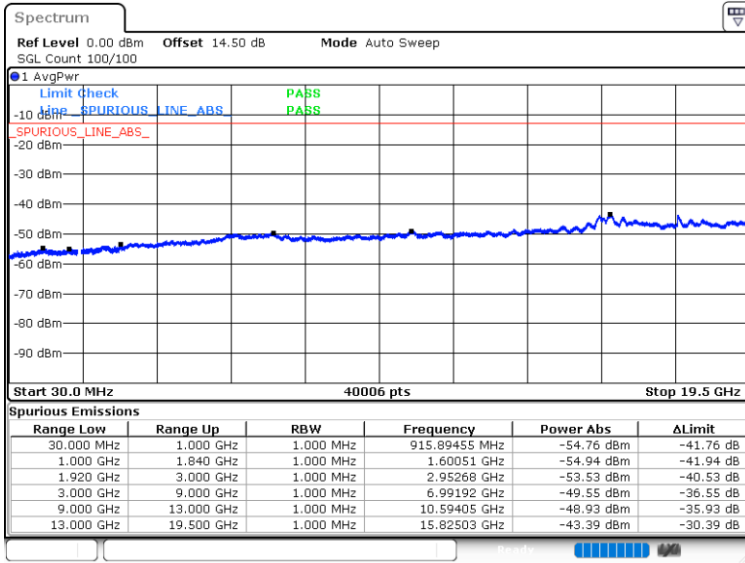
Middle Channel / QPSK



Date: 11.MAR.2024 21:27:38

Date: 11.MAR.2024 21:31:04

Highest Channel / QPSK



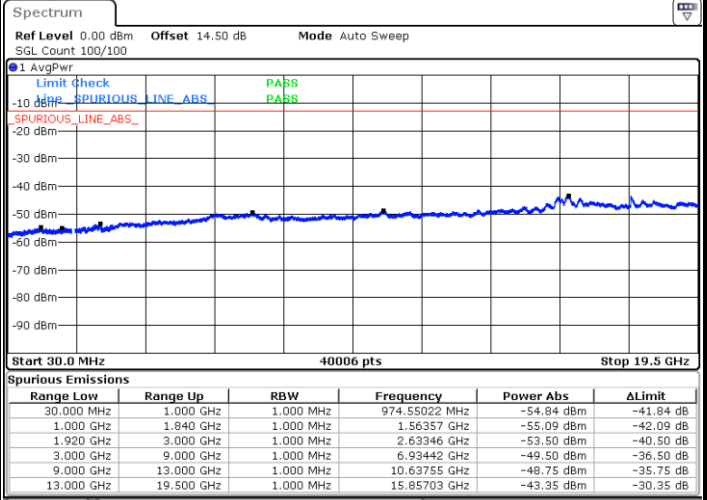
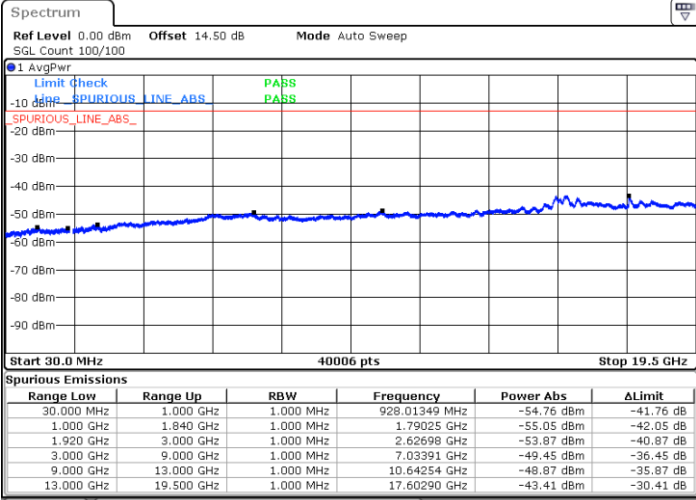
Date: 11.MAR.2024 21:38:07



LTE Band 2 / 10MHz

Lowest Channel / QPSK

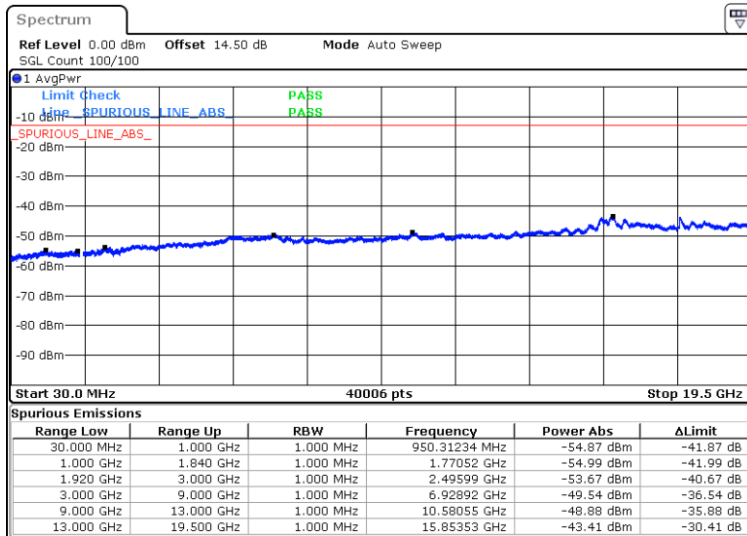
Middle Channel / QPSK



Date: 11.MAR.2024 21:44:34

Date: 11.MAR.2024 21:45:44

Highest Channel / QPSK



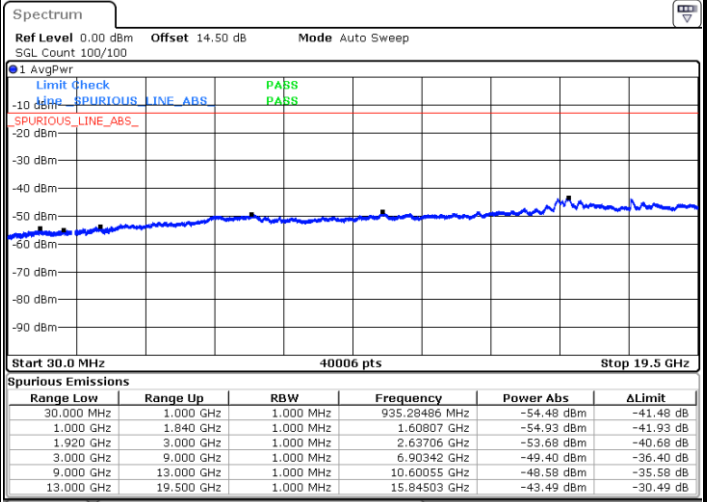
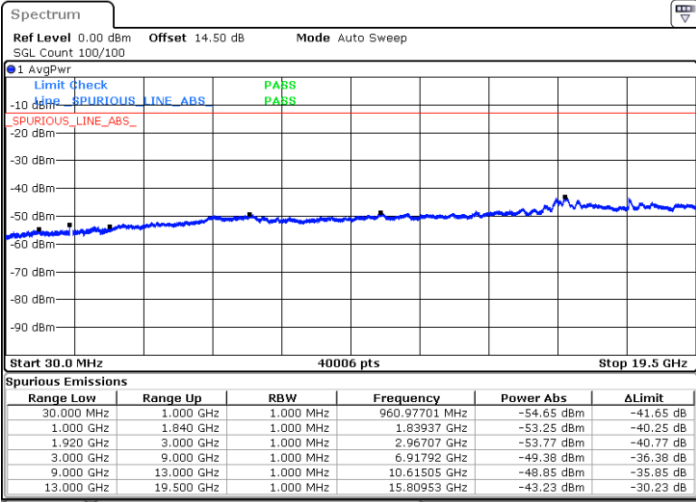
Date: 11.MAR.2024 21:52:47



LTE Band 2 / 15MHz

Lowest Channel / QPSK

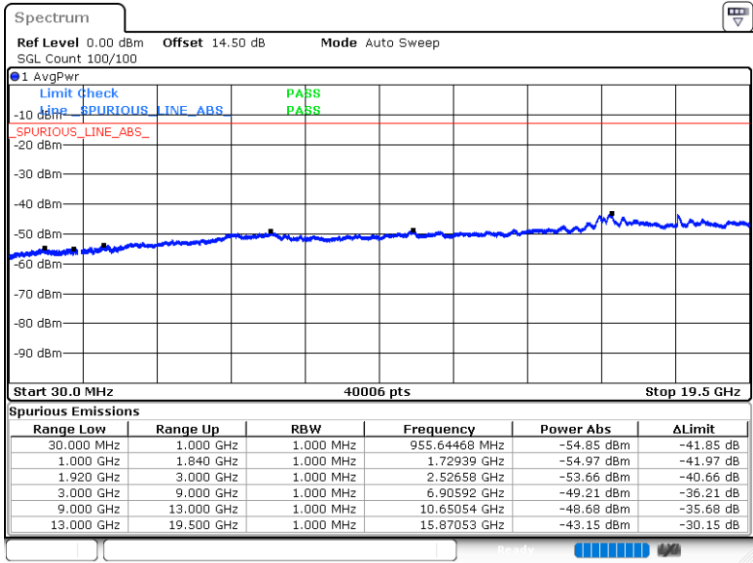
Middle Channel / QPSK



Date: 11.MAR.2024 21:59:14

Date: 11.MAR.2024 22:00:23

Highest Channel / QPSK



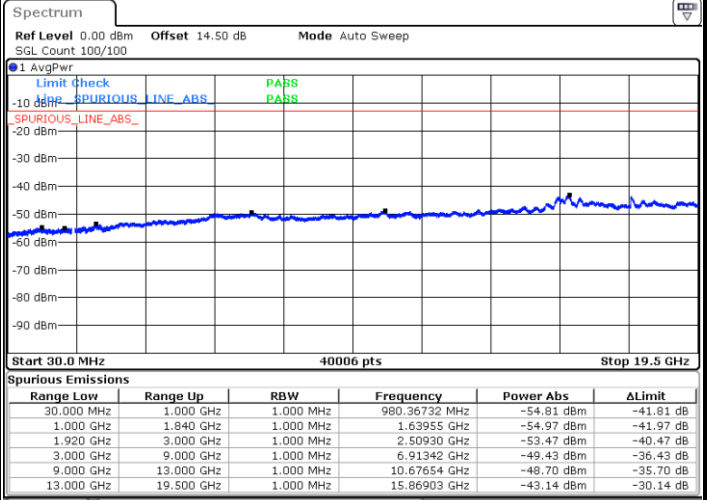
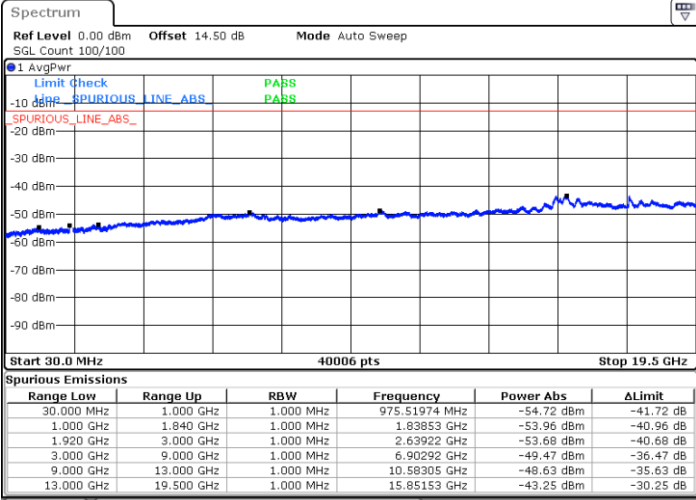
Date: 11.MAR.2024 22:07:26



LTE Band 2 / 20MHz

Lowest Channel / QPSK

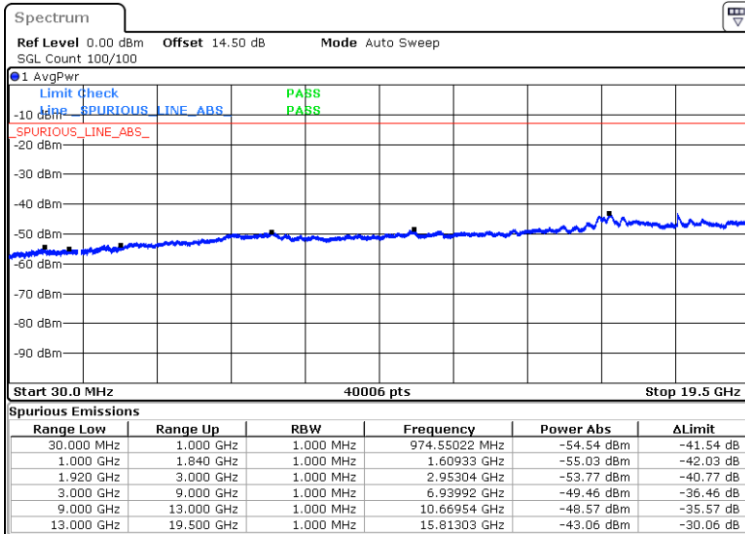
Middle Channel / QPSK



Date: 11.MAR.2024 22:13:53

Date: 11.MAR.2024 22:15:03

Highest Channel / QPSK



Date: 11.MAR.2024 22:23:26



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	0.0005	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

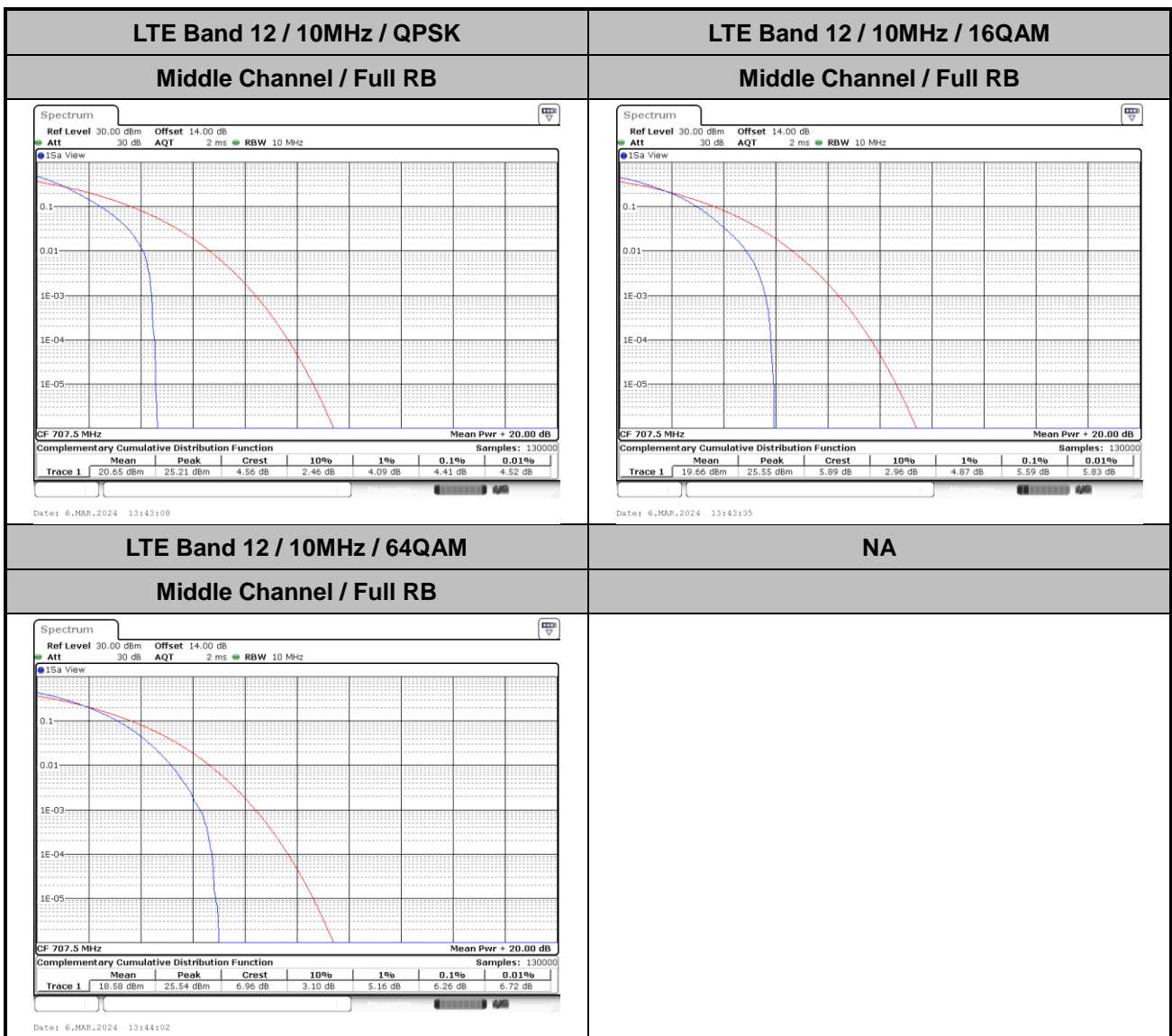
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

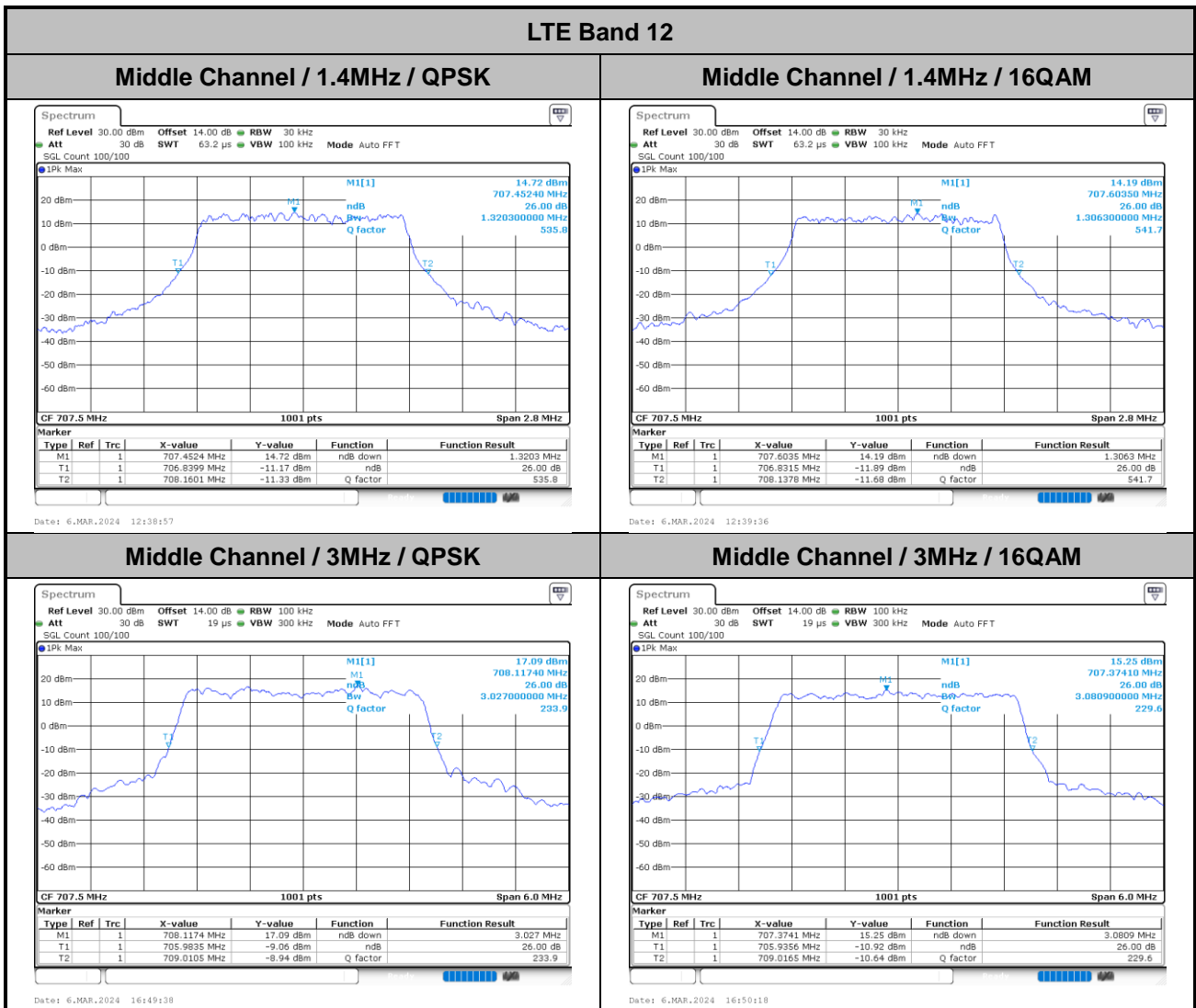
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.41	5.59	6.26	PASS





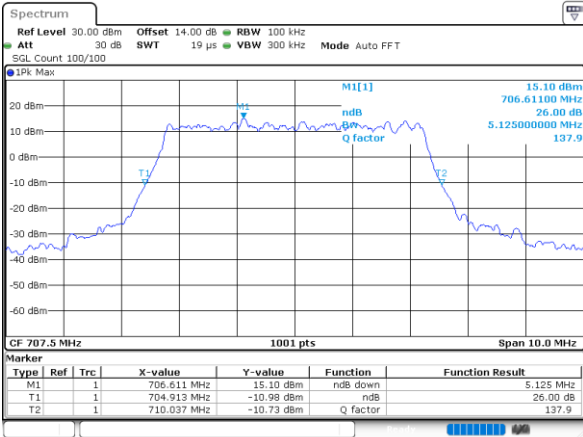
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		-		-	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	1.32	1.31	3.03	3.08	5.13	5.03	9.99	9.93	-	-	-	-



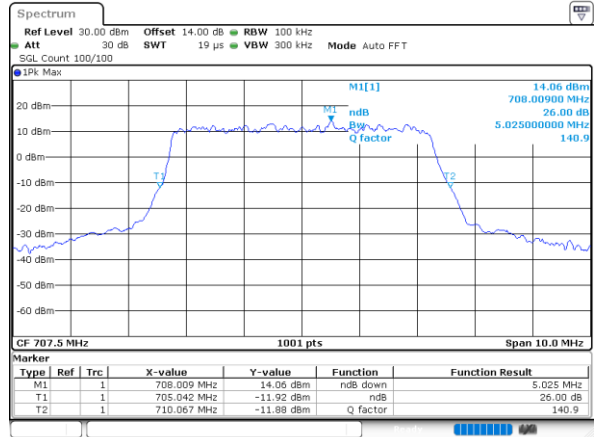


Middle Channel / 5MHz / QPSK



Date: 6,MAR,2024 13:14:28

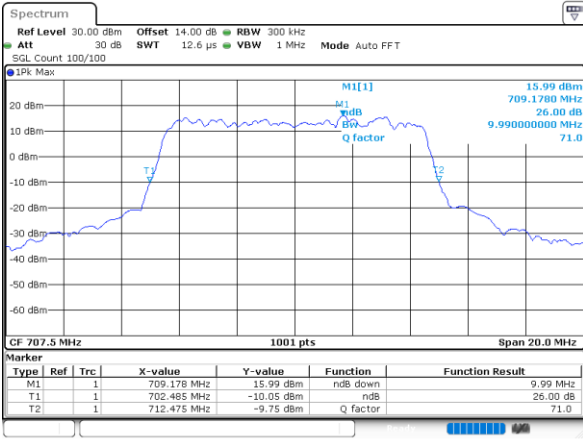
Middle Channel / 5MHz / 16QAM



Date: 6,MAR,2024 13:15:08

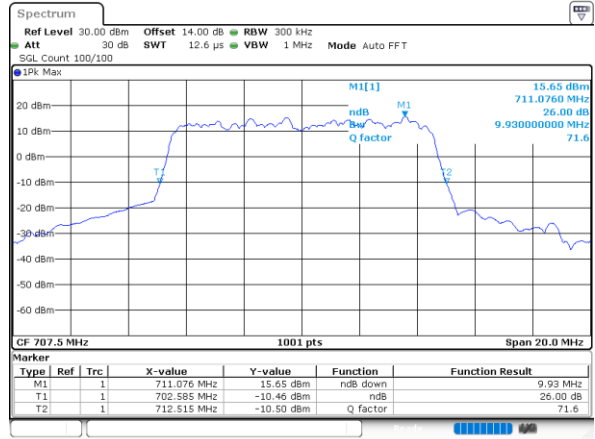
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6,MAR,2024 13:32:14

Middle Channel / 10MHz / 16QAM

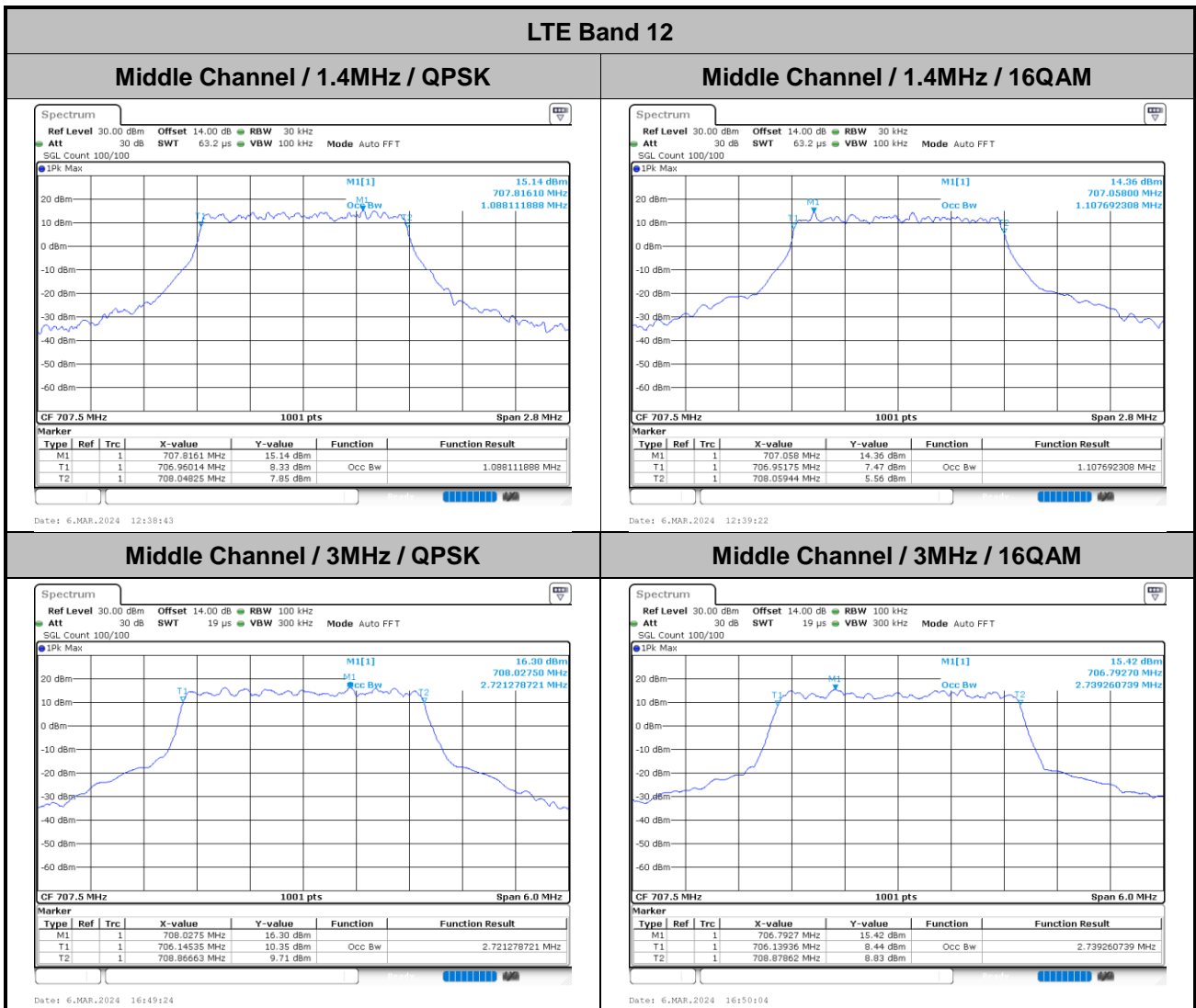


Date: 6,MAR,2024 13:32:53



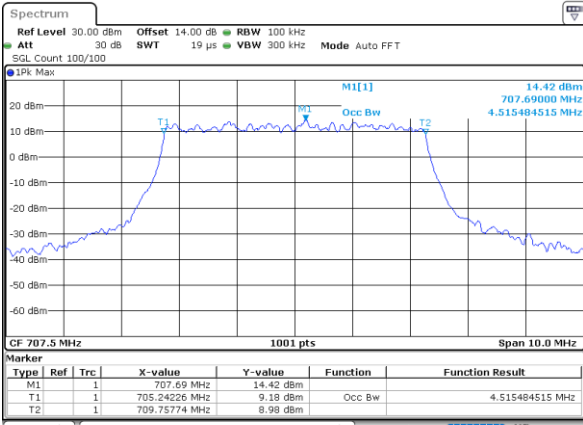
Occupied Bandwidth

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	1.11	2.72	2.74	4.52	4.48	9.09	9.01	-	-



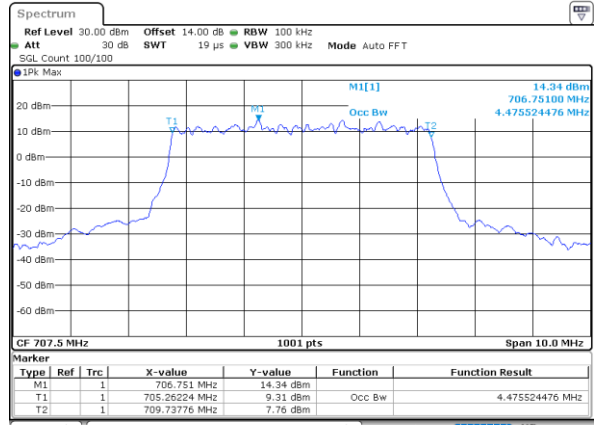


Middle Channel / 5MHz / QPSK



Date: 6.MAR.2024 13:14:14

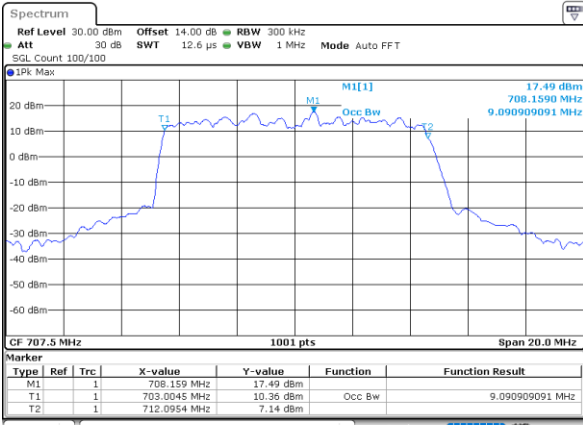
Middle Channel / 5MHz / 16QAM



Date: 6.MAR.2024 13:14:54

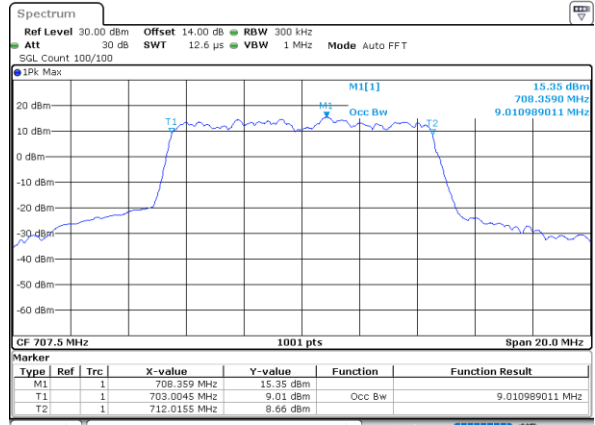
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6.MAR.2024 13:32:00

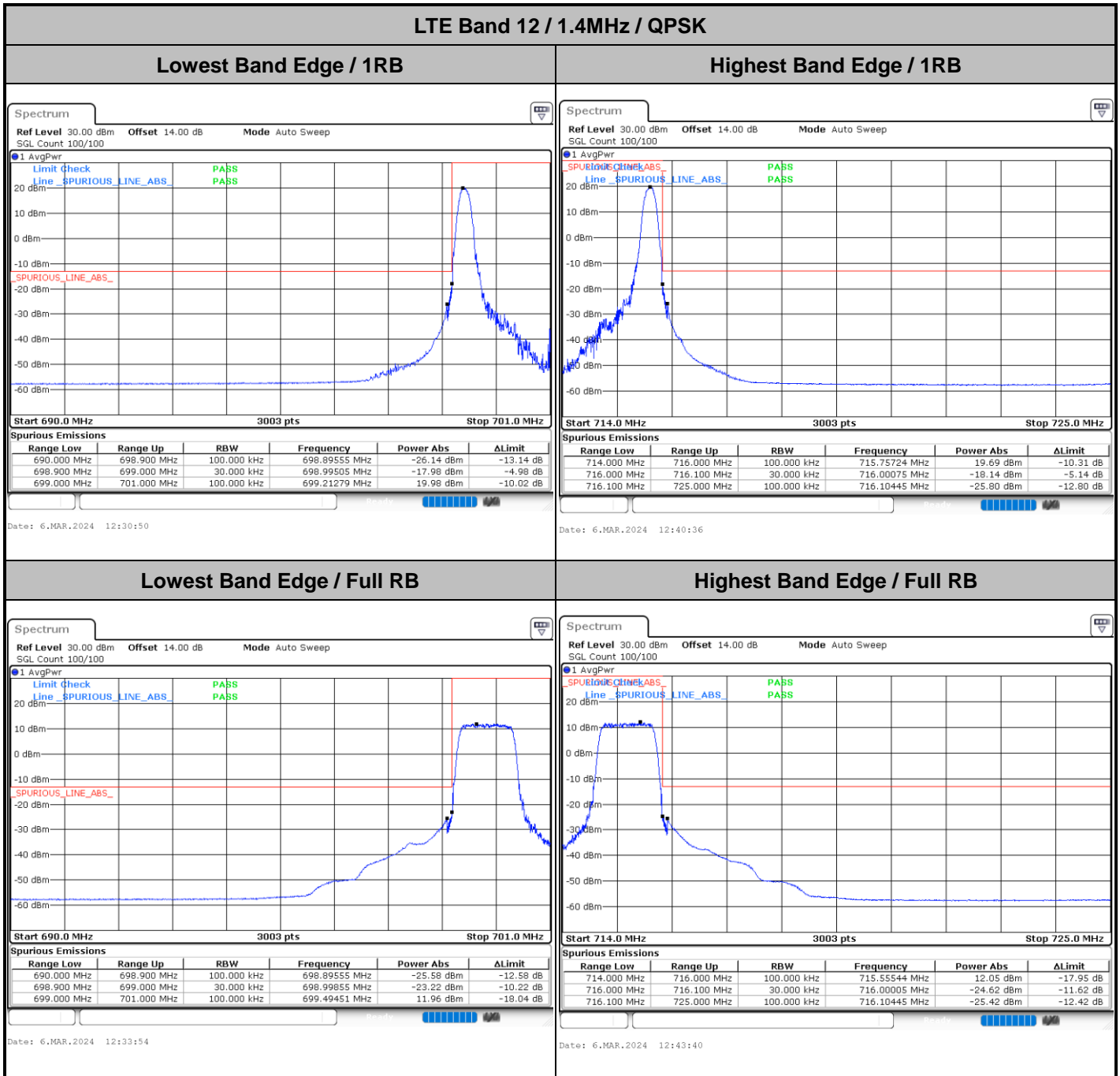
Middle Channel / 10MHz / 16QAM



Date: 6.MAR.2024 13:32:39



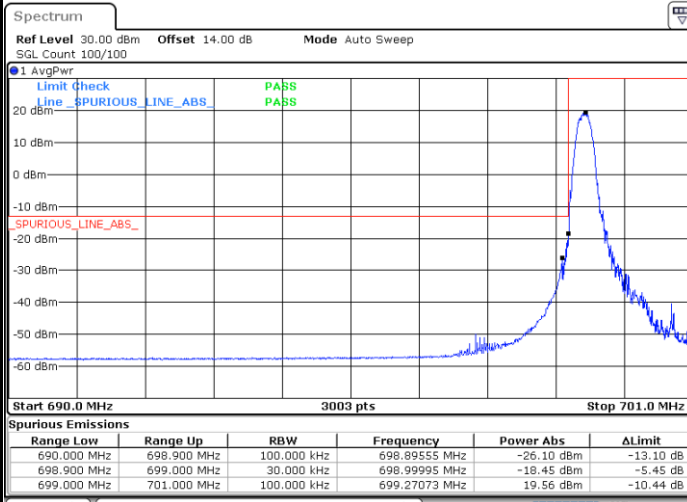
Conducted Band Edge





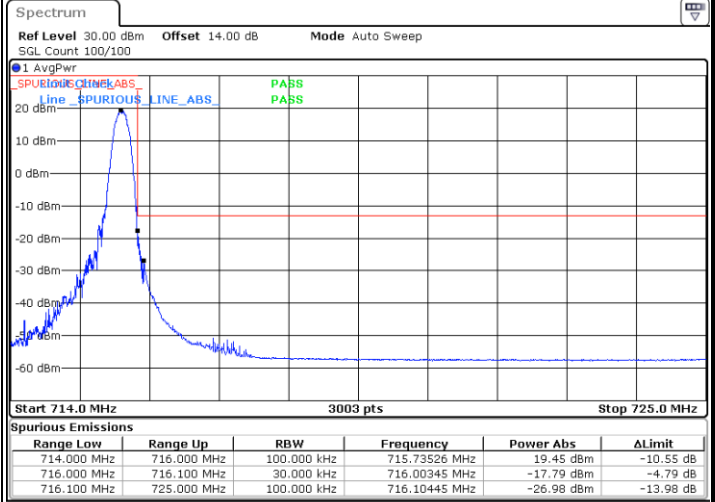
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



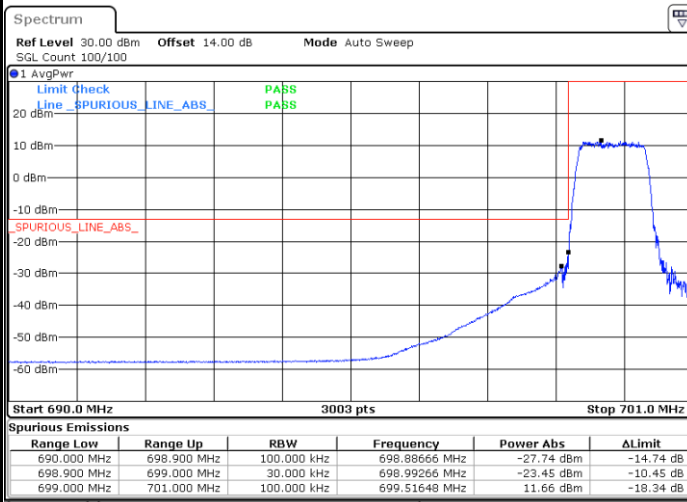
Date: 6.MAR.2024 12:31:51

Highest Band Edge / 1 RB



Date: 6.MAR.2024 12:41:38

Lowest Band Edge / Full RB



Date: 6.MAR.2024 12:34:55

Highest Band Edge / Full RB

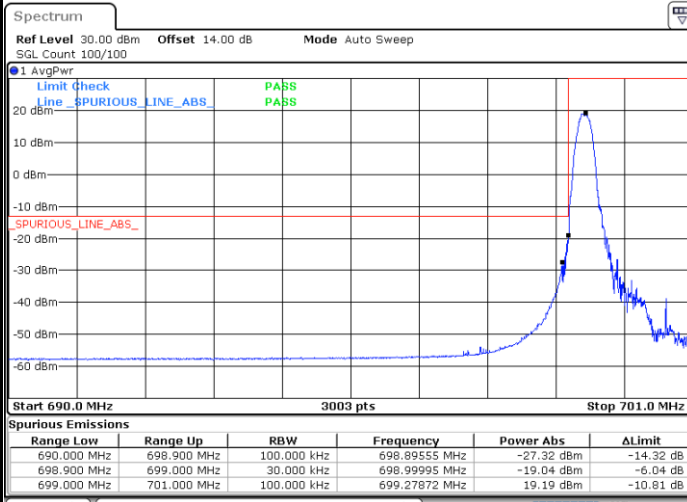


Date: 6.MAR.2024 12:44:41



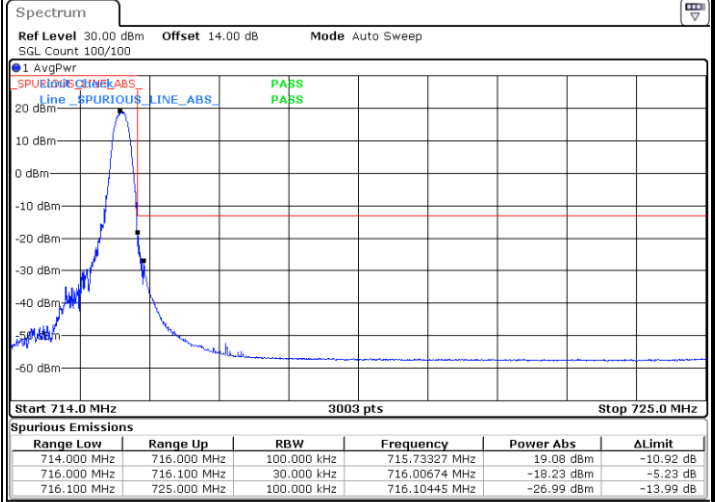
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



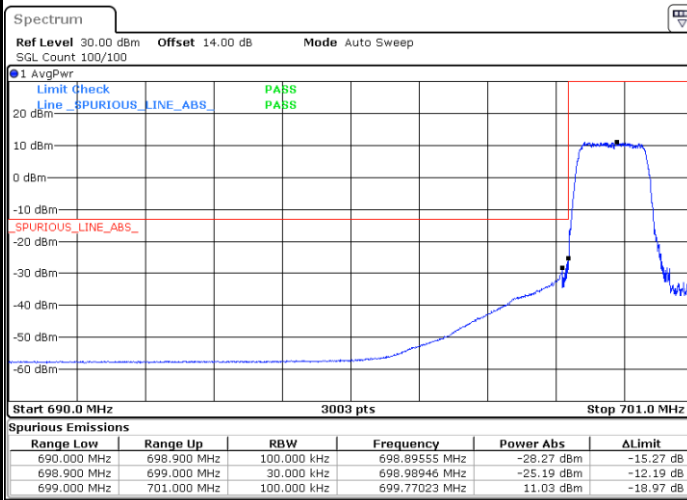
Date: 6.MAR.2024 12:32:53

Highest Band Edge / 1 RB



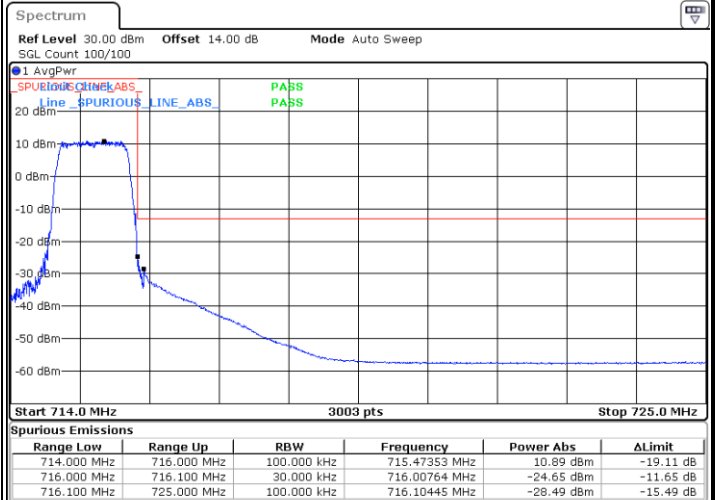
Date: 6.MAR.2024 12:42:39

Lowest Band Edge / Full RB



Date: 6.MAR.2024 12:35:57

Highest Band Edge / Full RB

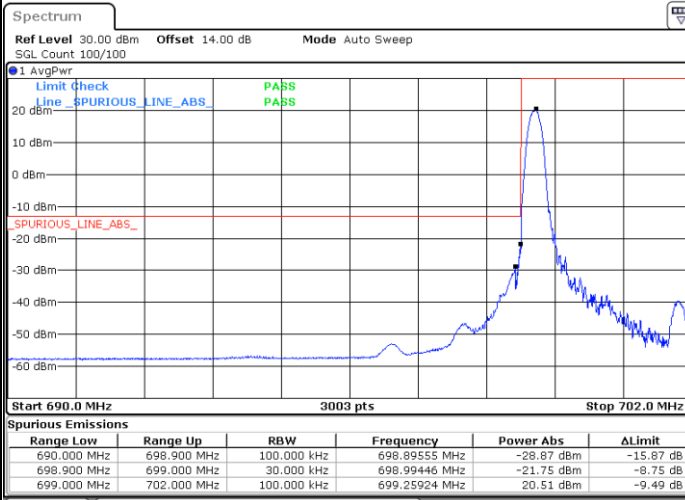


Date: 6.MAR.2024 12:45:43



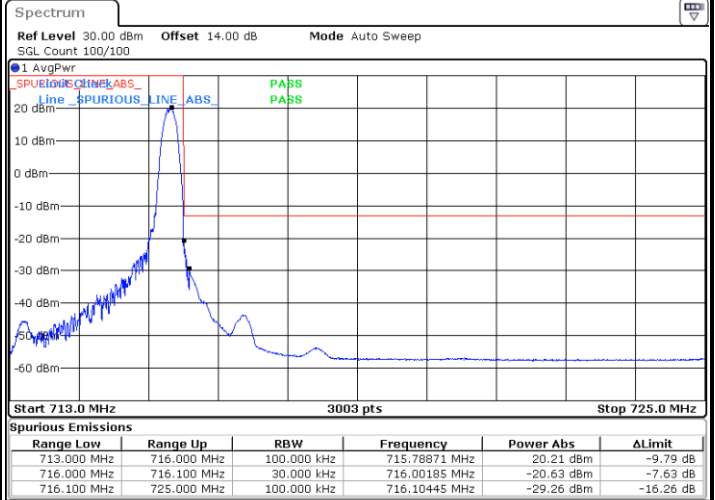
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



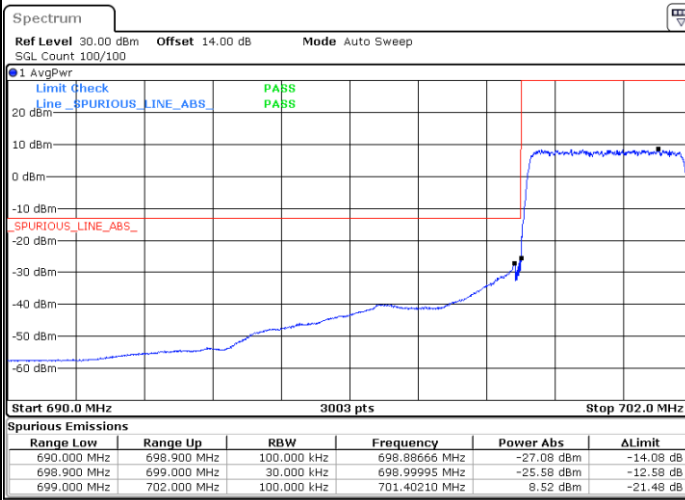
Date: 6.MAR.2024 16:43:02

Highest Band Edge / 1RB



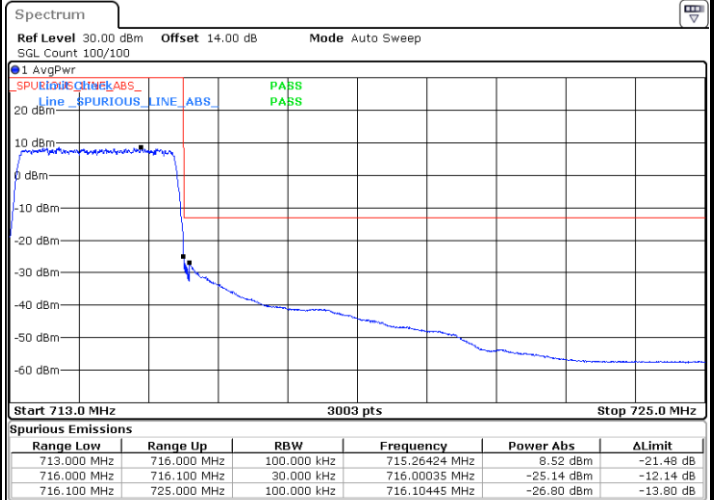
Date: 6.MAR.2024 16:51:08

Lowest Band Edge / Full RB



Date: 6.MAR.2024 16:45:36

Highest Band Edge / Full RB

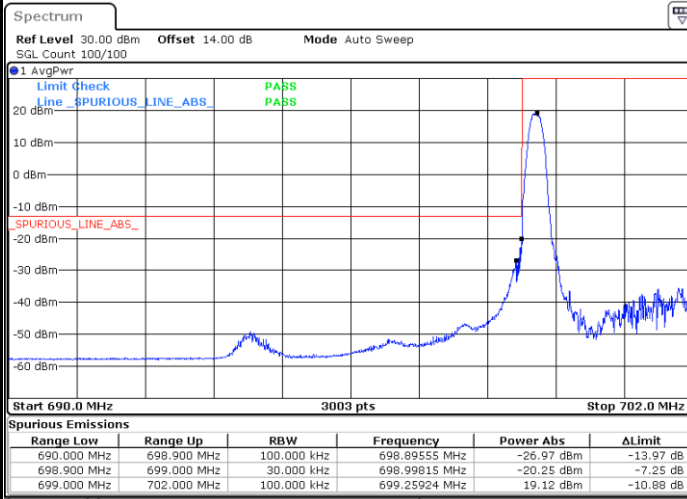


Date: 6.MAR.2024 16:53:42



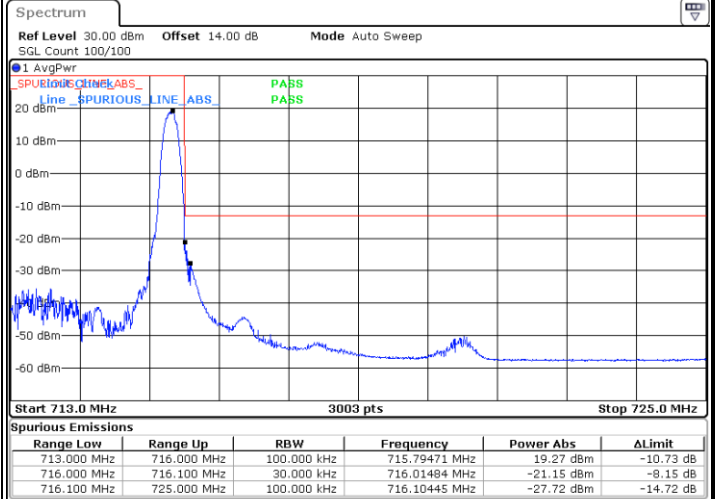
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



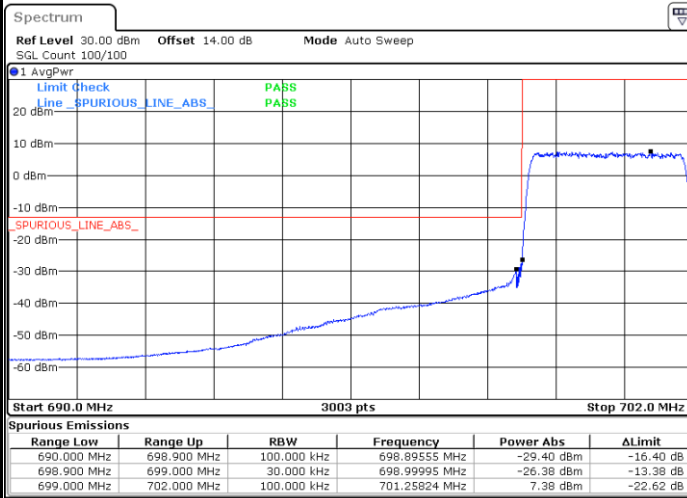
Date: 6.MAR.2024 16:43:53

Highest Band Edge / 1 RB



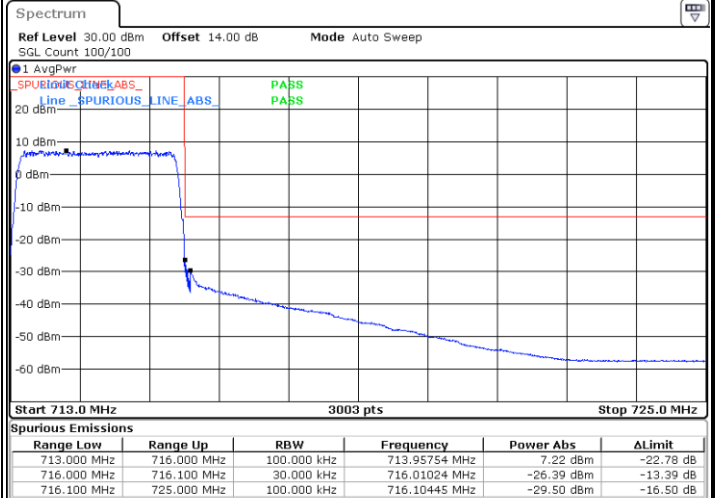
Date: 6.MAR.2024 16:51:59

Lowest Band Edge / Full RB



Date: 6.MAR.2024 16:46:27

Highest Band Edge / Full RB

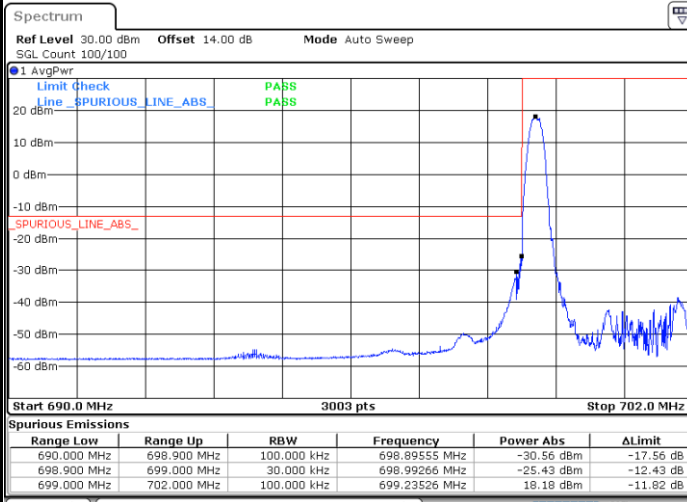


Date: 6.MAR.2024 16:54:33



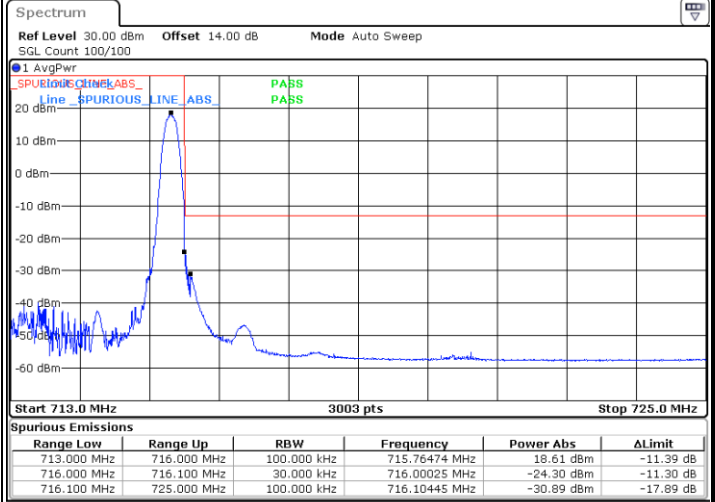
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



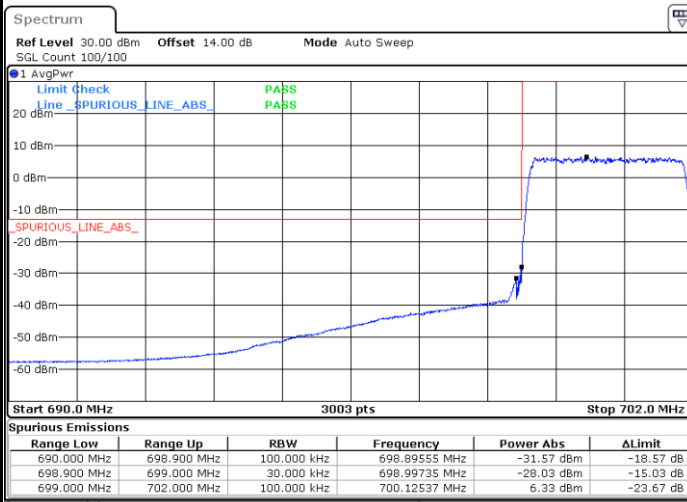
Date: 6.MAR.2024 16:44:44

Highest Band Edge / 1 RB



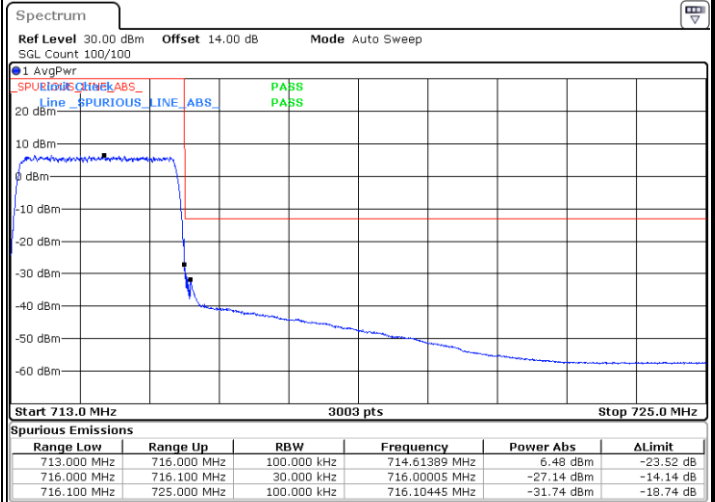
Date: 6.MAR.2024 16:52:50

Lowest Band Edge / Full RB



Date: 6.MAR.2024 16:47:18

Highest Band Edge / Full RB

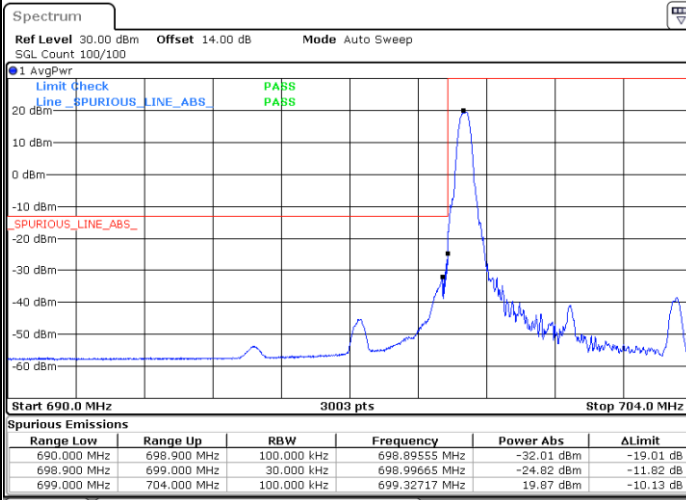


Date: 6.MAR.2024 16:55:24



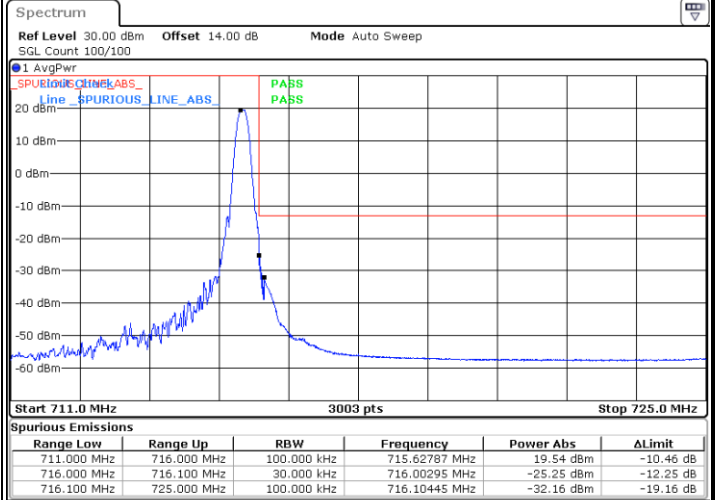
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



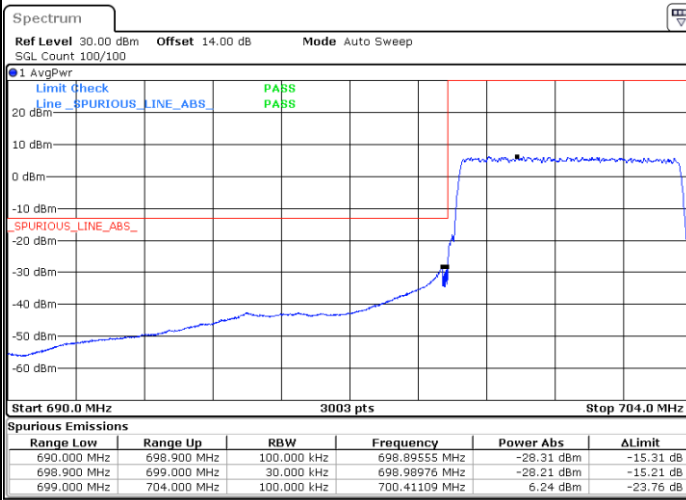
Date: 6.MAR.2024 16:57:48

Highest Band Edge / 1RB



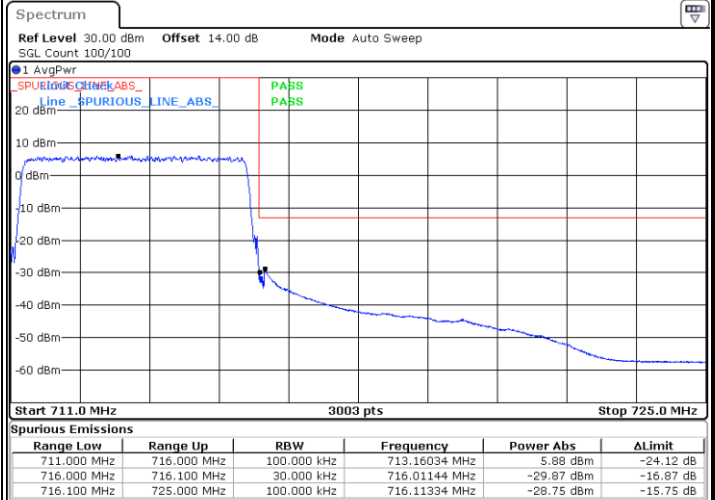
Date: 6.MAR.2024 13:16:08

Lowest Band Edge / Full RB



Date: 6.MAR.2024 17:00:22

Highest Band Edge / Full RB

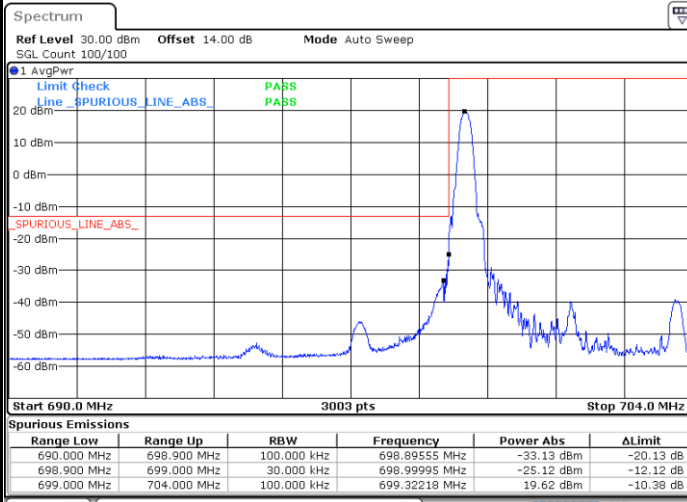


Date: 6.MAR.2024 13:19:11



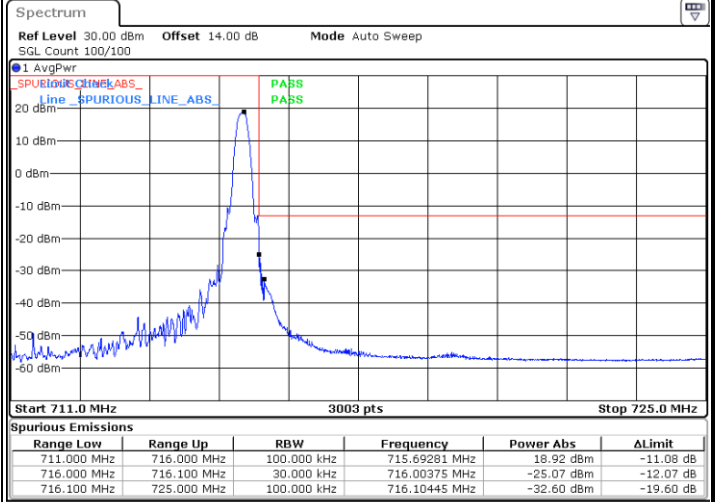
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



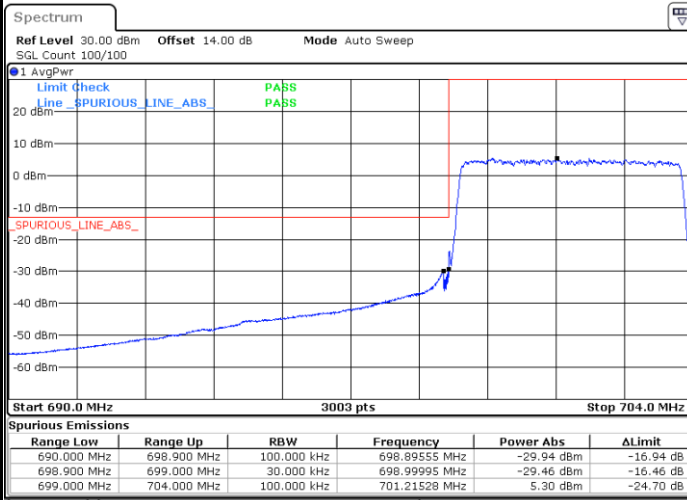
Date: 6.MAR.2024 16:58:40

Highest Band Edge / 1 RB



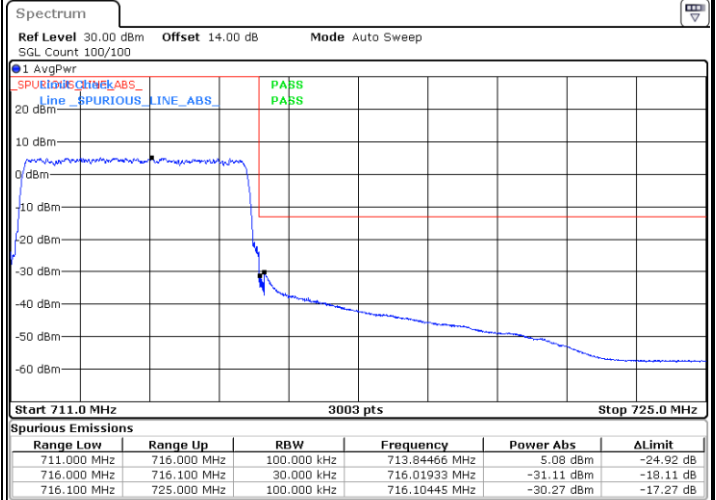
Date: 6.MAR.2024 13:17:09

Lowest Band Edge / Full RB



Date: 6.MAR.2024 17:01:13

Highest Band Edge / Full RB

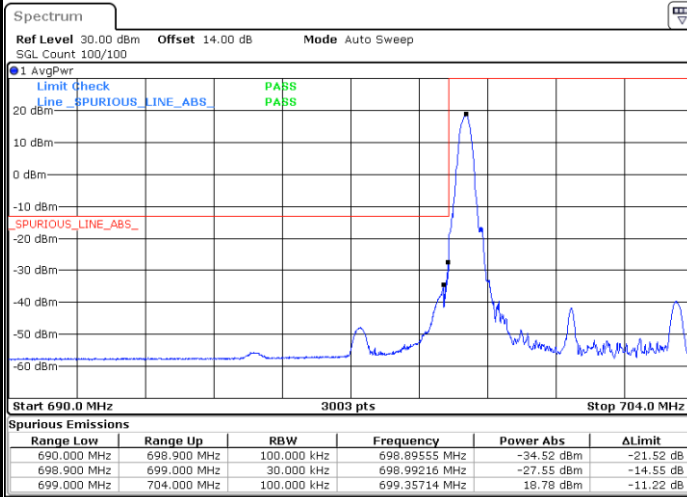


Date: 6.MAR.2024 13:20:12



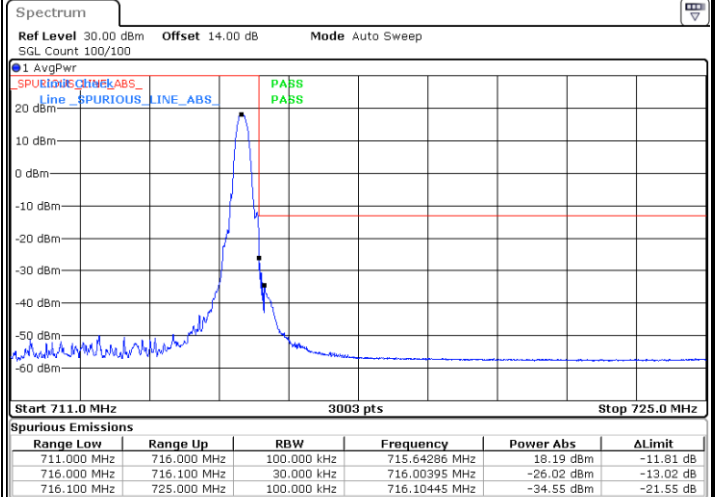
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



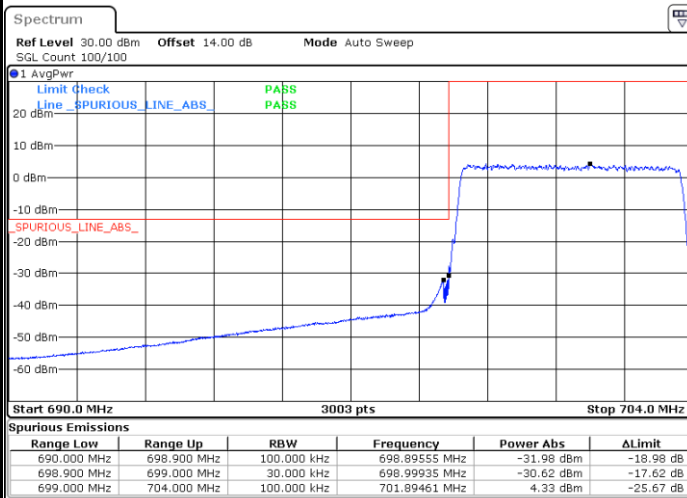
Date: 6.MAR.2024 16:59:31

Highest Band Edge / 1 RB



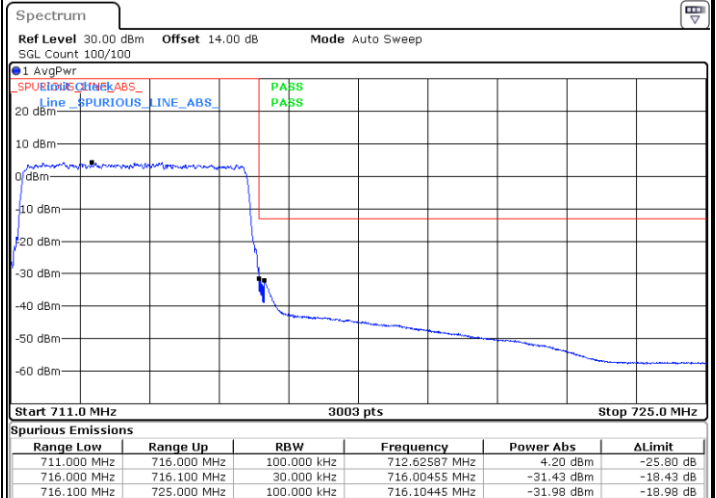
Date: 6.MAR.2024 13:18:10

Lowest Band Edge / Full RB



Date: 6.MAR.2024 13:11:28

Highest Band Edge / Full RB

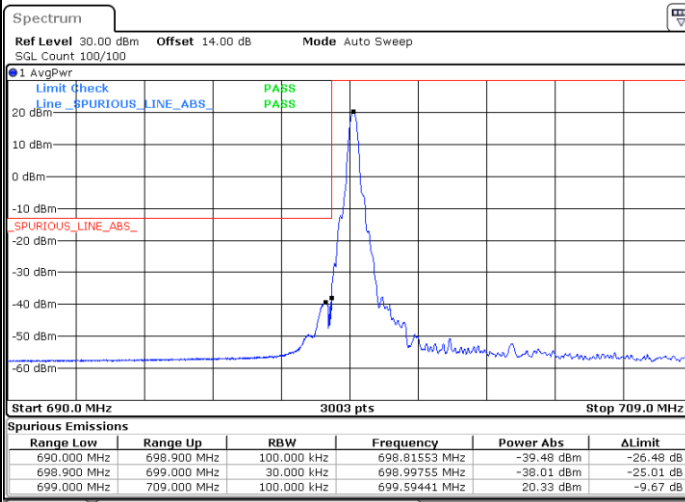


Date: 6.MAR.2024 13:21:13



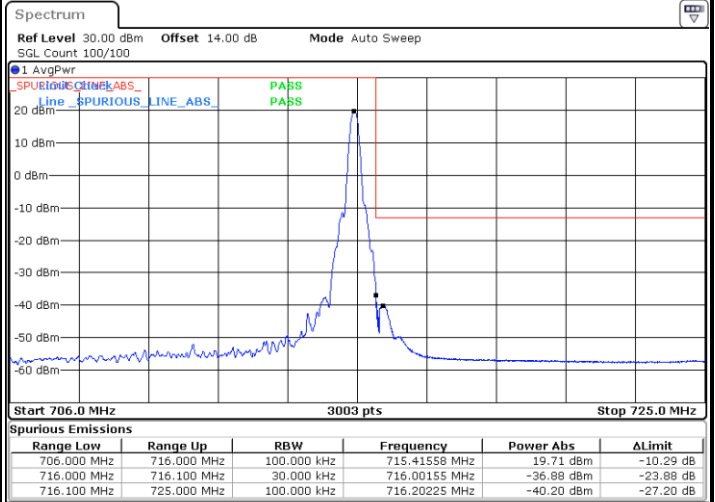
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



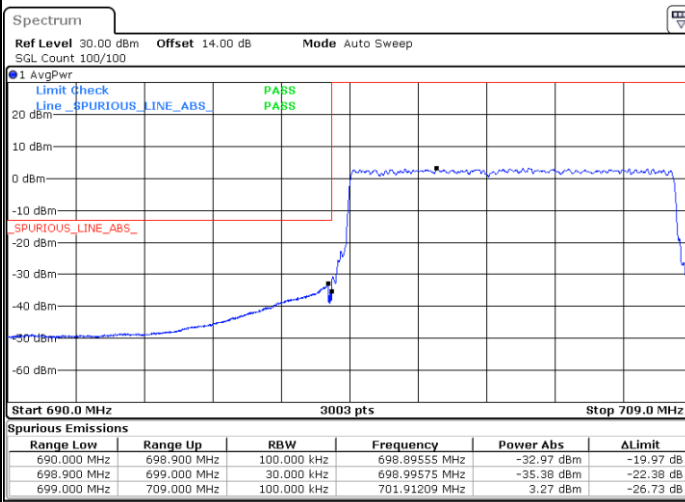
Date: 6.MAR.2024 13:24:08

Highest Band Edge / 1RB



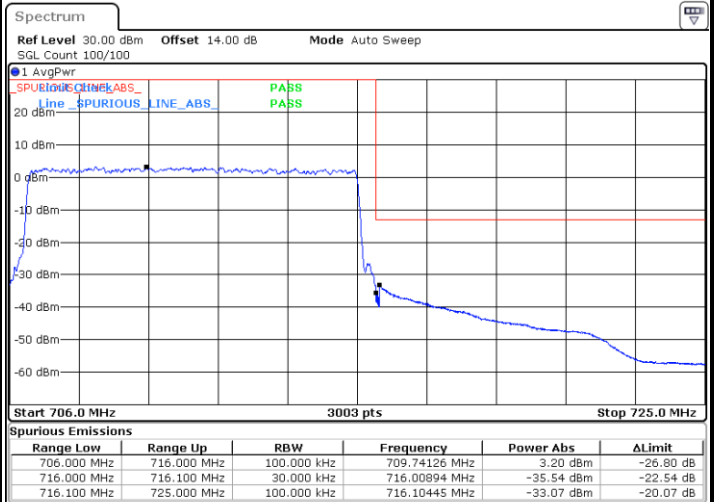
Date: 6.MAR.2024 13:33:53

Lowest Band Edge / Full RB



Date: 6.MAR.2024 13:27:11

Highest Band Edge / Full RB

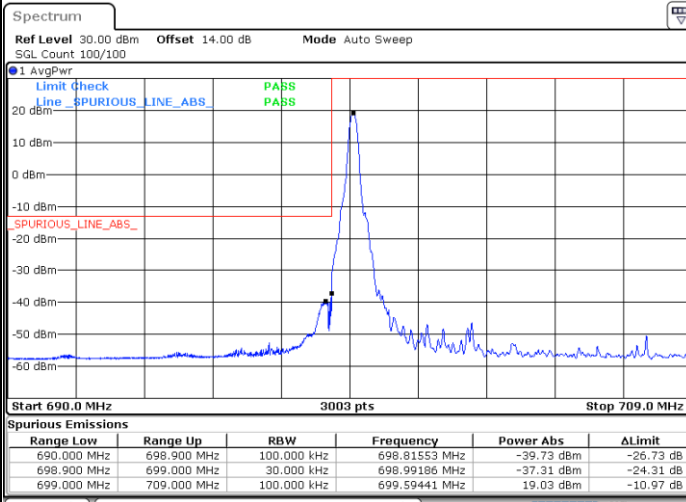


Date: 6.MAR.2024 13:36:57



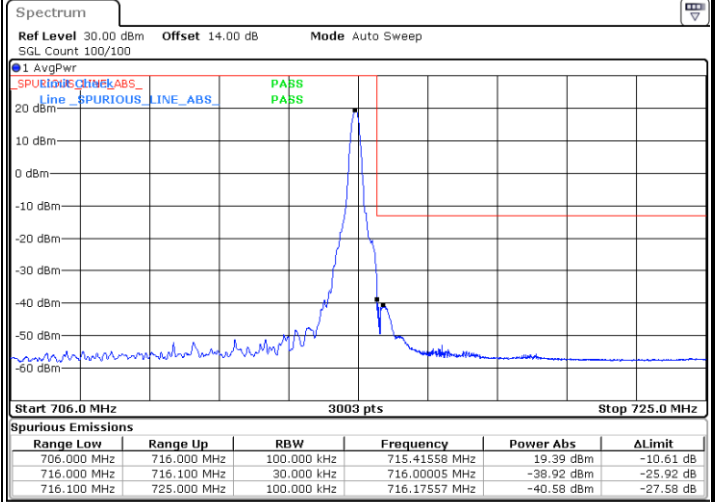
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



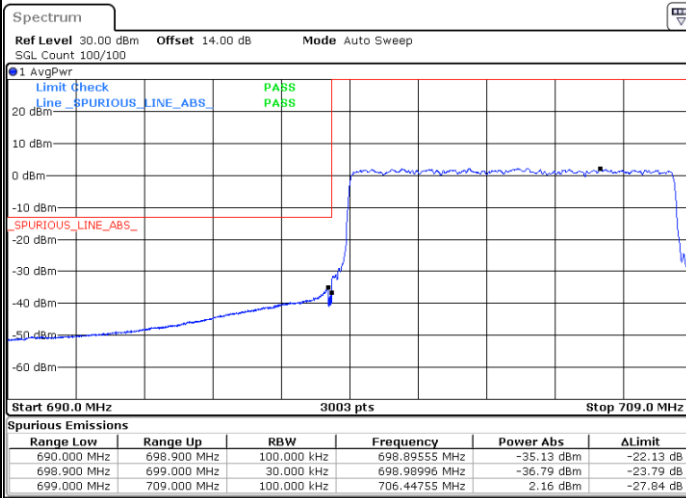
Date: 6.MAR.2024 13:25:09

Highest Band Edge / 1 RB



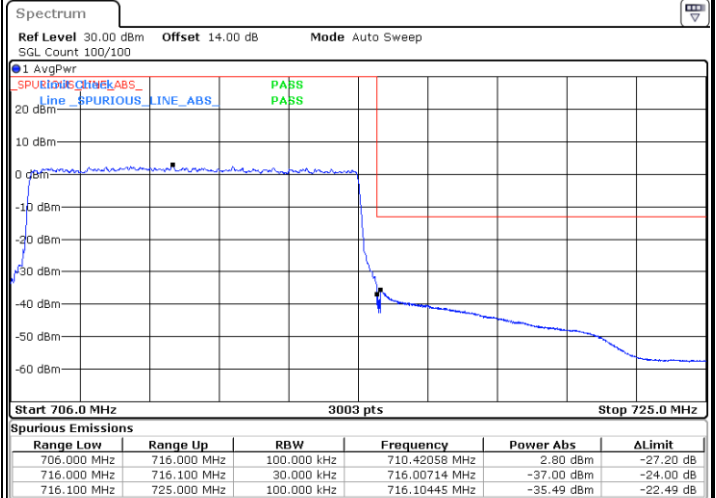
Date: 6.MAR.2024 13:34:54

Lowest Band Edge / Full RB



Date: 6.MAR.2024 13:28:13

Highest Band Edge / Full RB

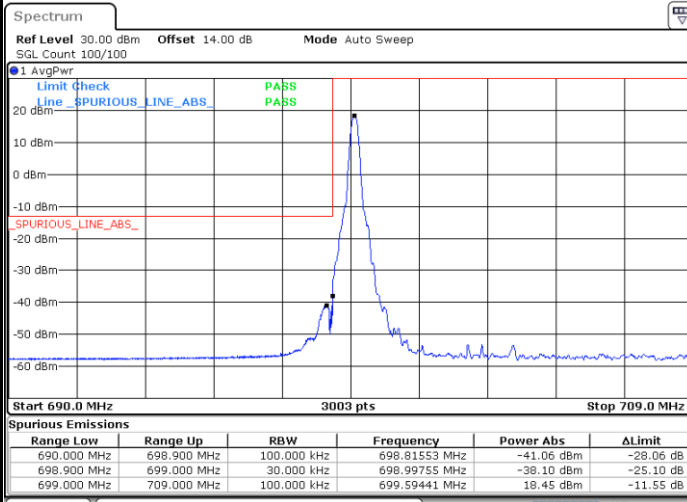


Date: 6.MAR.2024 13:37:58



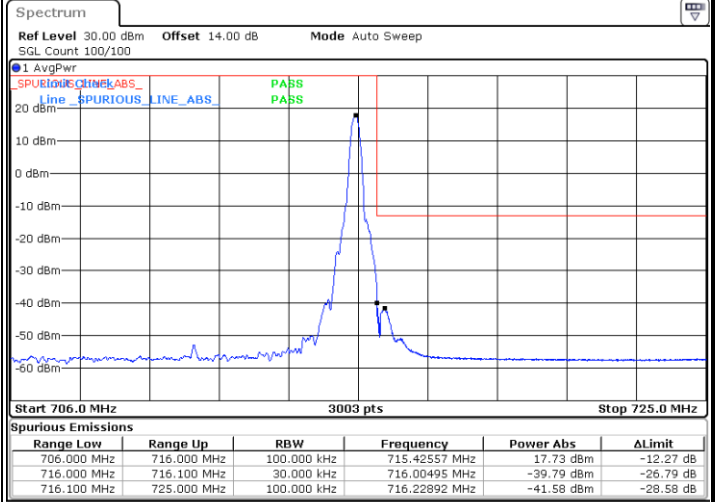
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



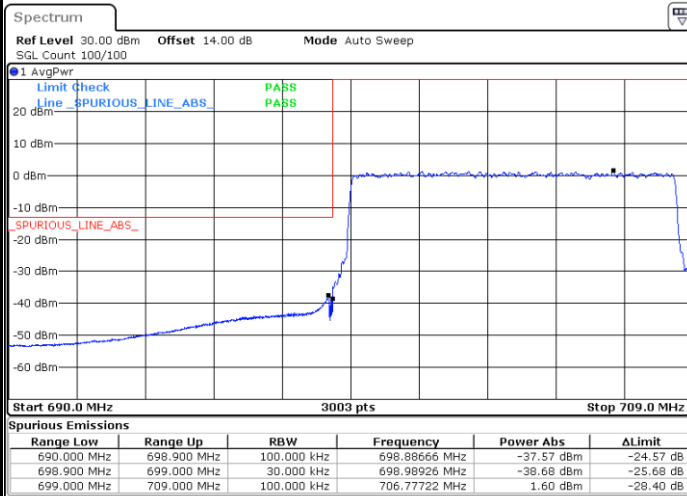
Date: 6.MAR.2024 13:26:10

Highest Band Edge / 1 RB



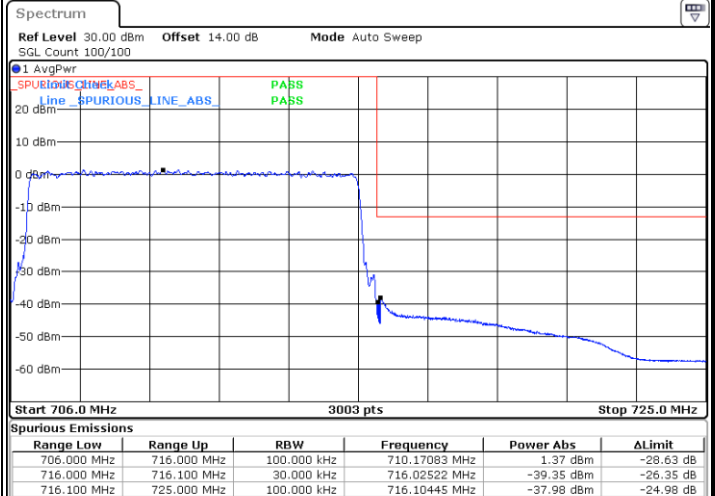
Date: 6.MAR.2024 13:35:55

Lowest Band Edge / Full RB



Date: 6.MAR.2024 13:29:14

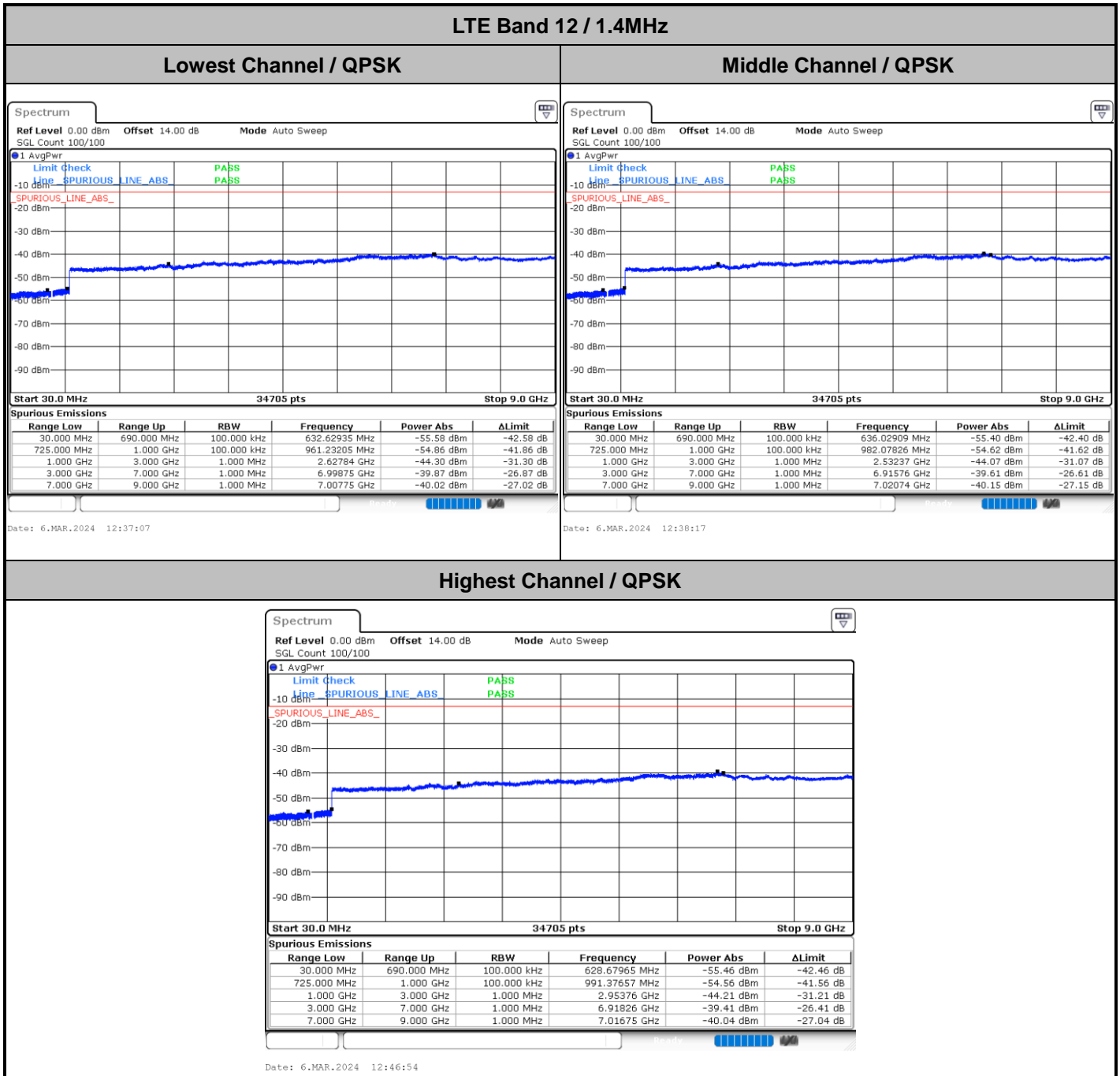
Highest Band Edge / Full RB



Date: 6.MAR.2024 13:38:59



Conducted Spurious Emission

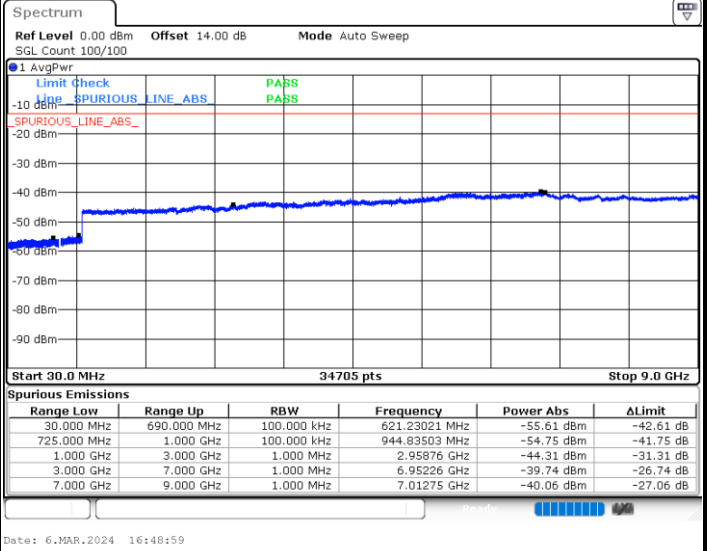
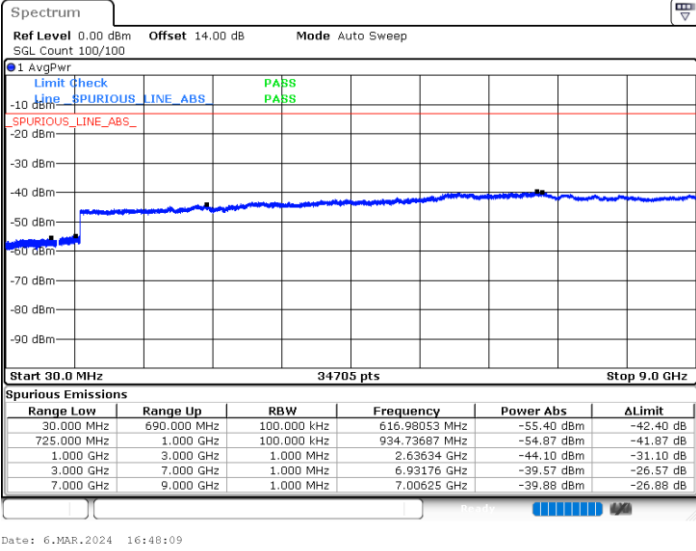




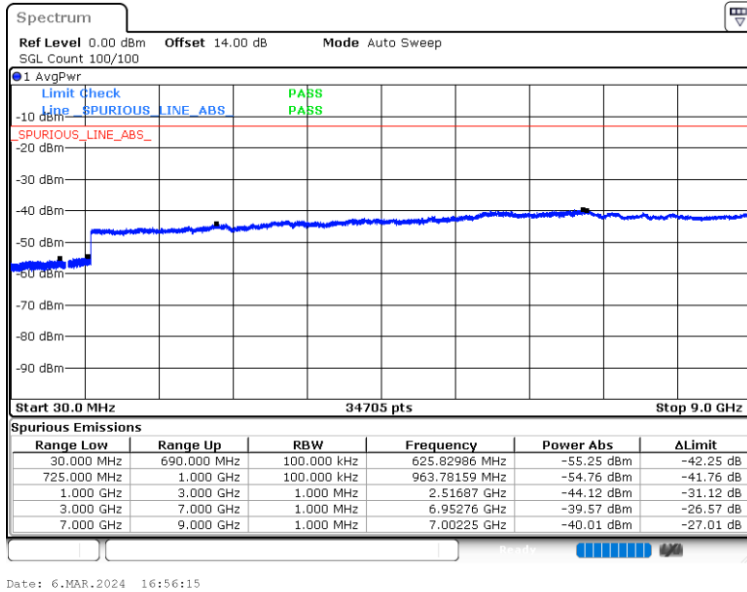
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

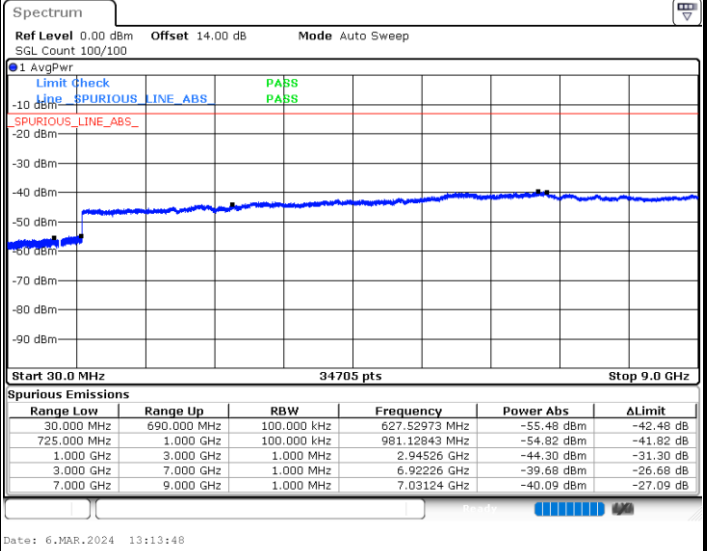
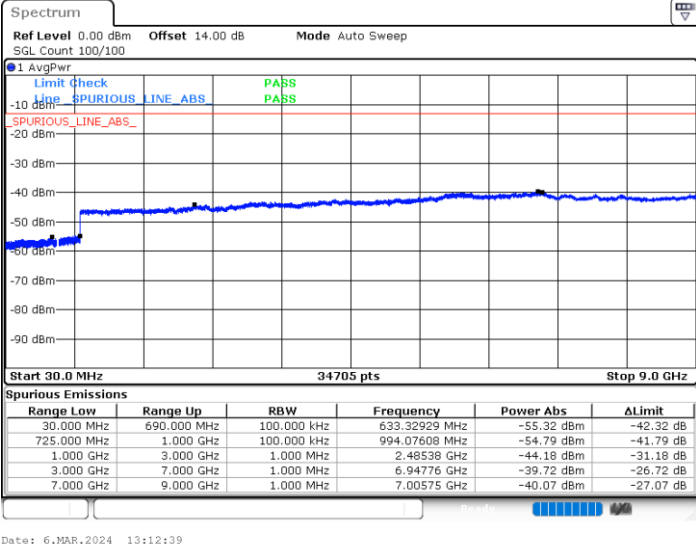




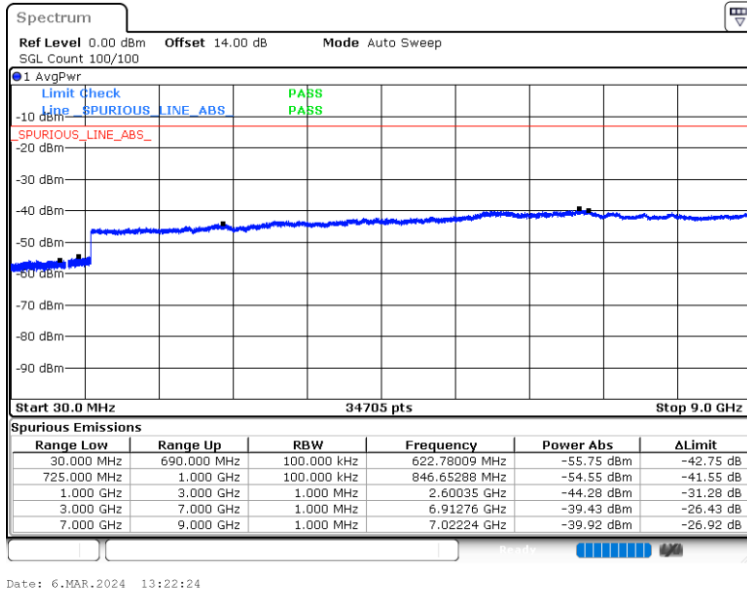
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

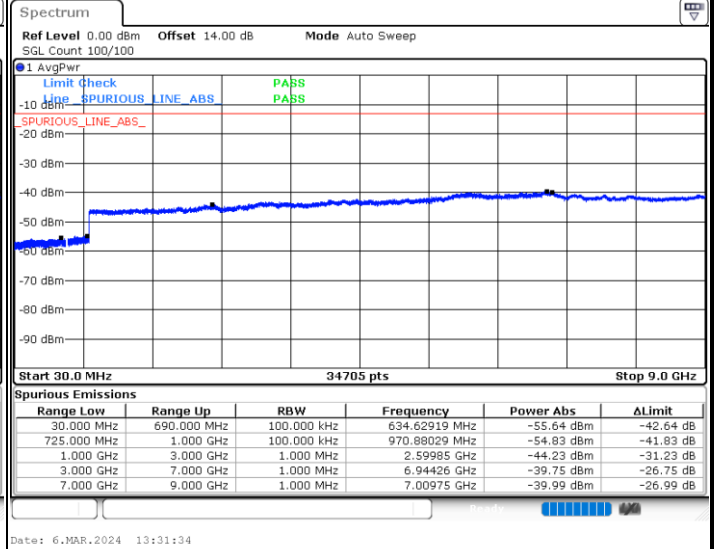
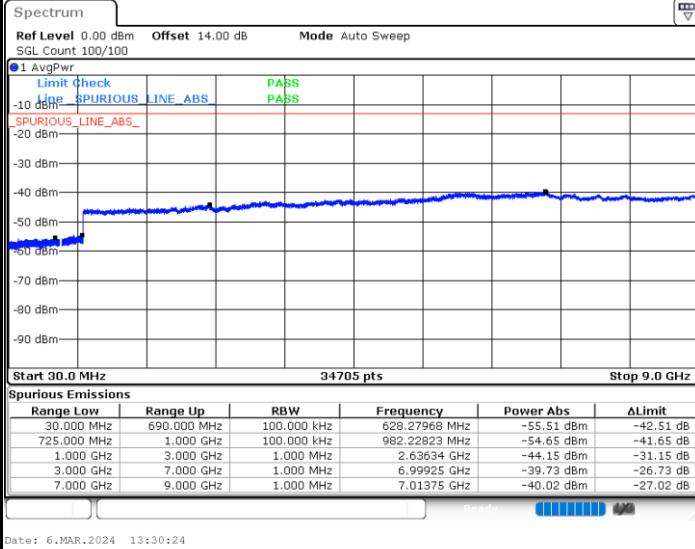




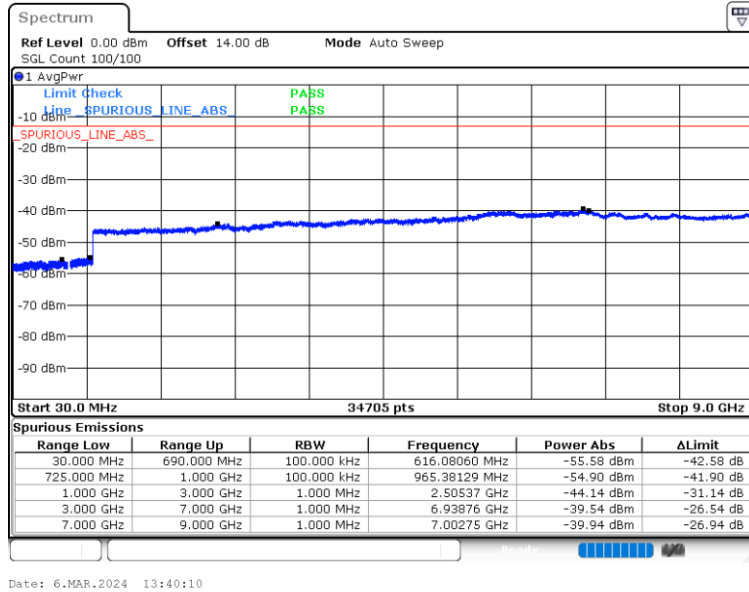
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



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	0.0029	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0061	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0067	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

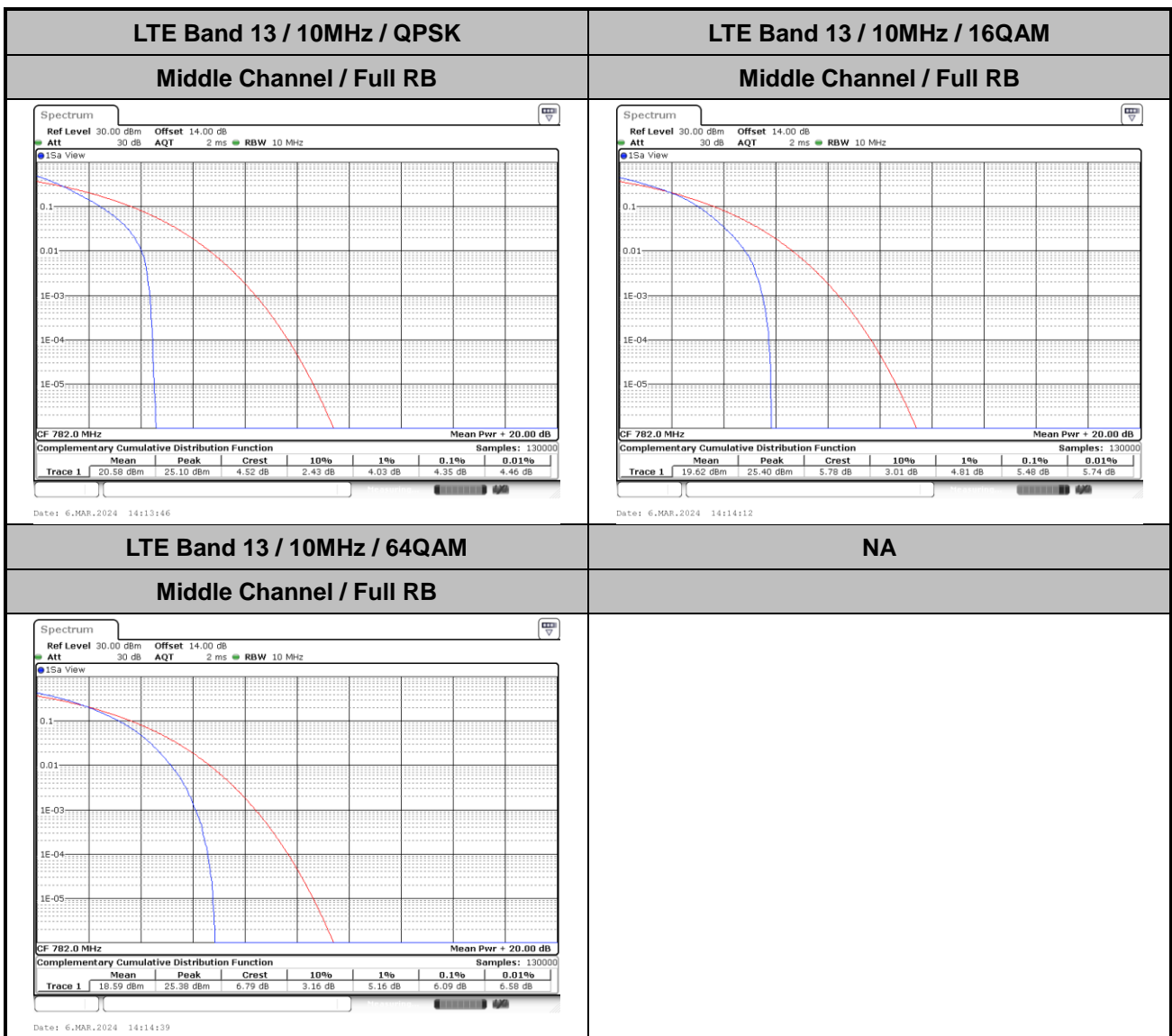
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

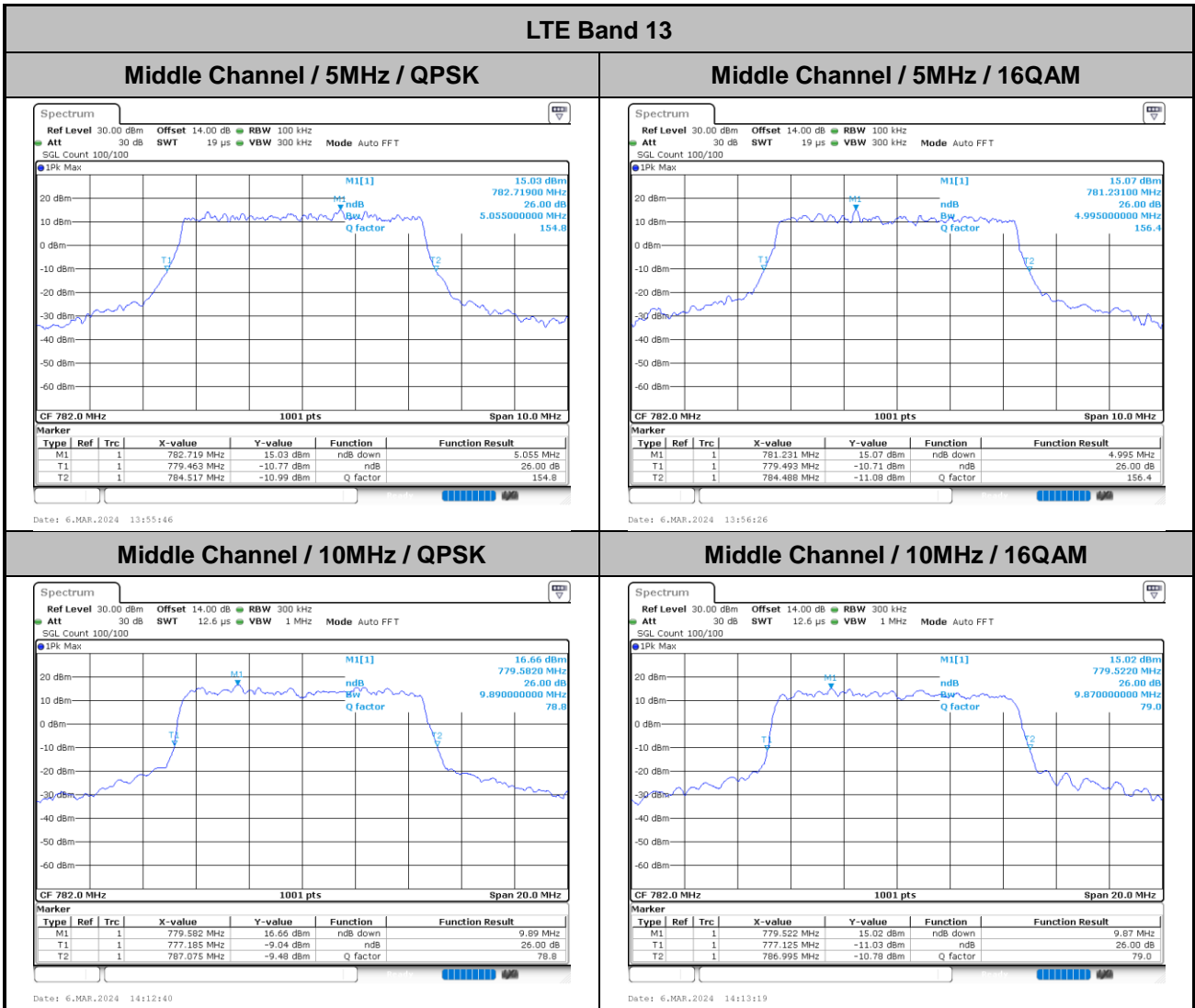
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.35	5.48	6.09	PASS





26dB Bandwidth

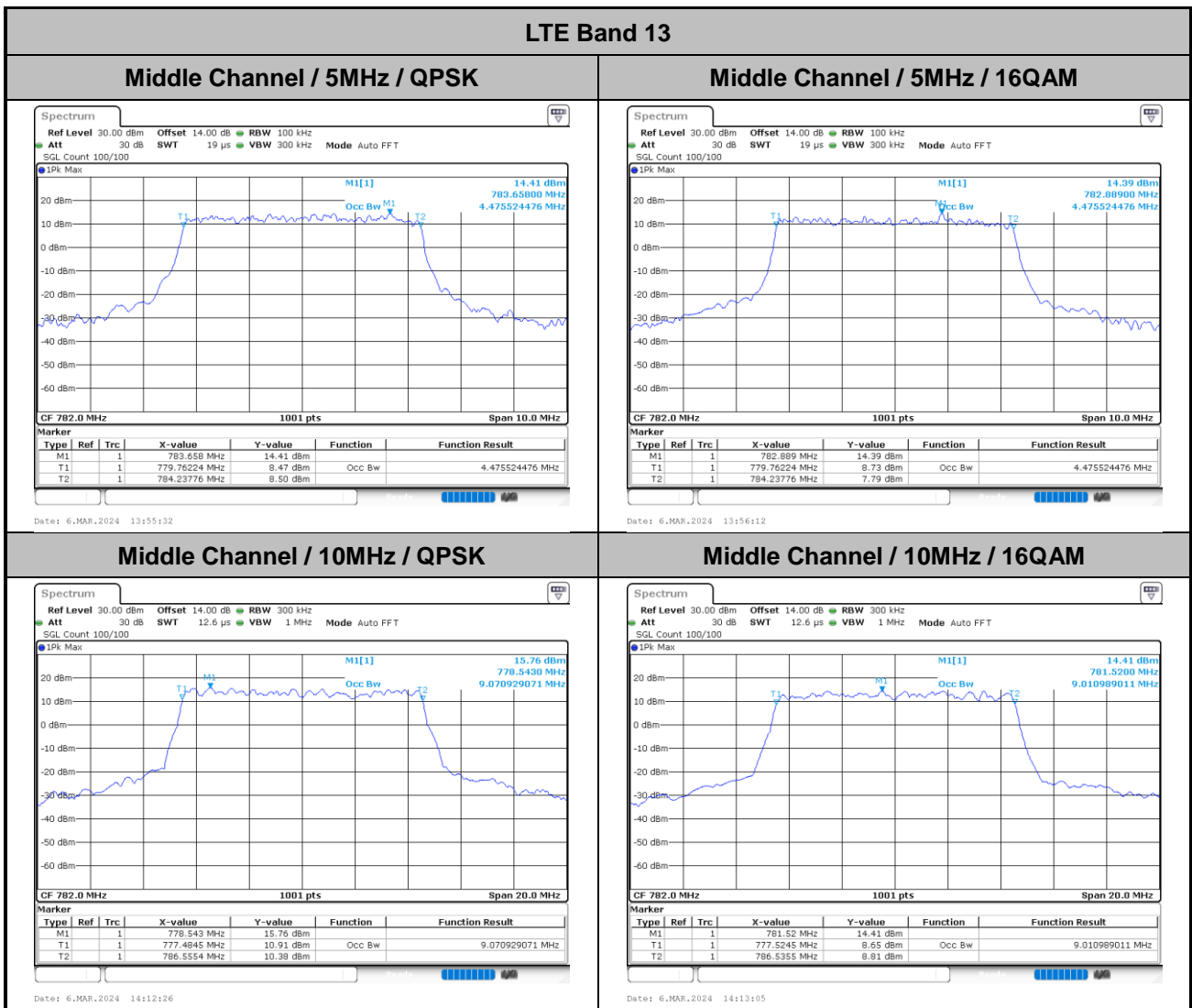
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	-			5MHz			10MHz			-		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	-	-	-	-	5.06	5.00	9.89	9.87	-	-	-	-





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	-			5MHz			10MHz			-		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	-	-	-	-	4.48	4.48	9.07	9.01	-	-	-	-

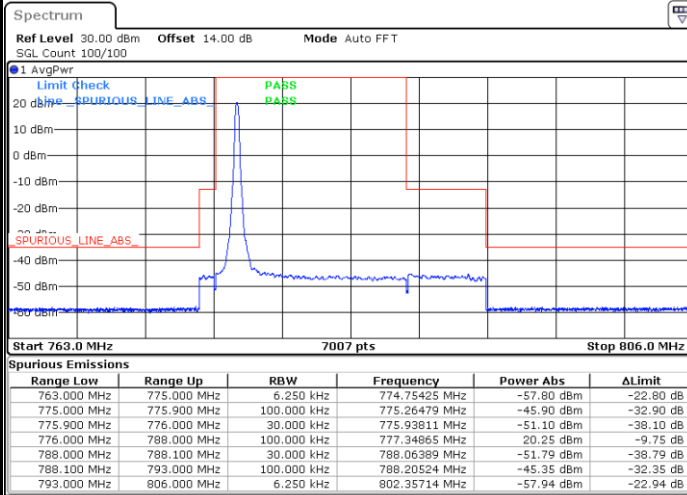




Conducted Band Edge

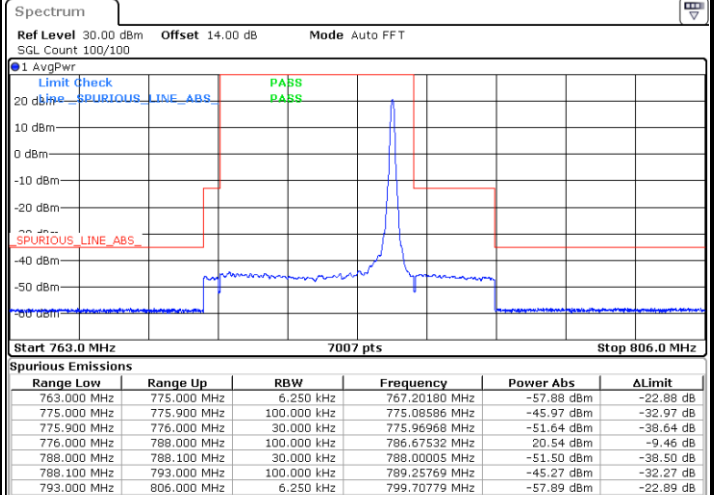
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



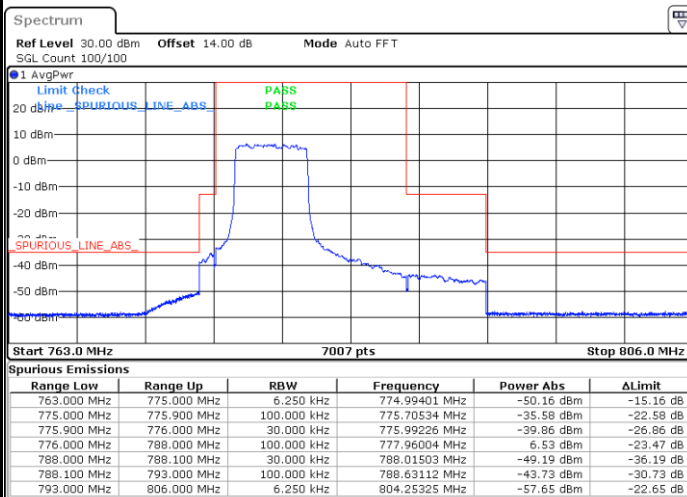
Date: 6.MAR.2024 13:48:43

Highest Band Edge / 1 RB



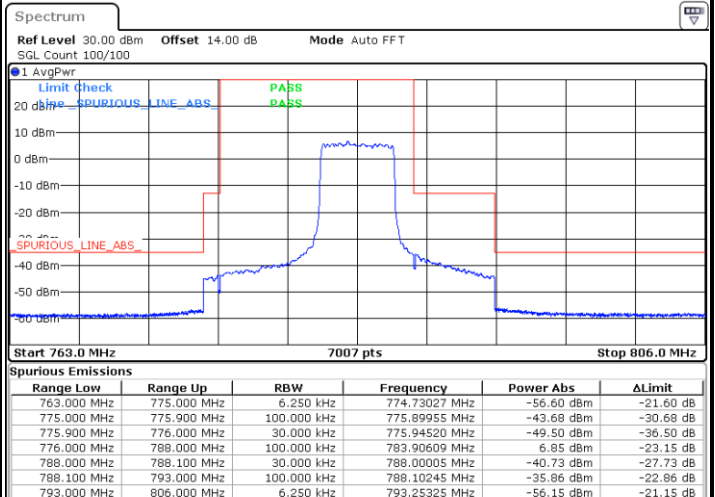
Date: 6.MAR.2024 13:57:23

Lowest Band Edge / Full RB



Date: 6.MAR.2024 13:51:19

Highest Band Edge / Full RB



Date: 6.MAR.2024 13:59:57