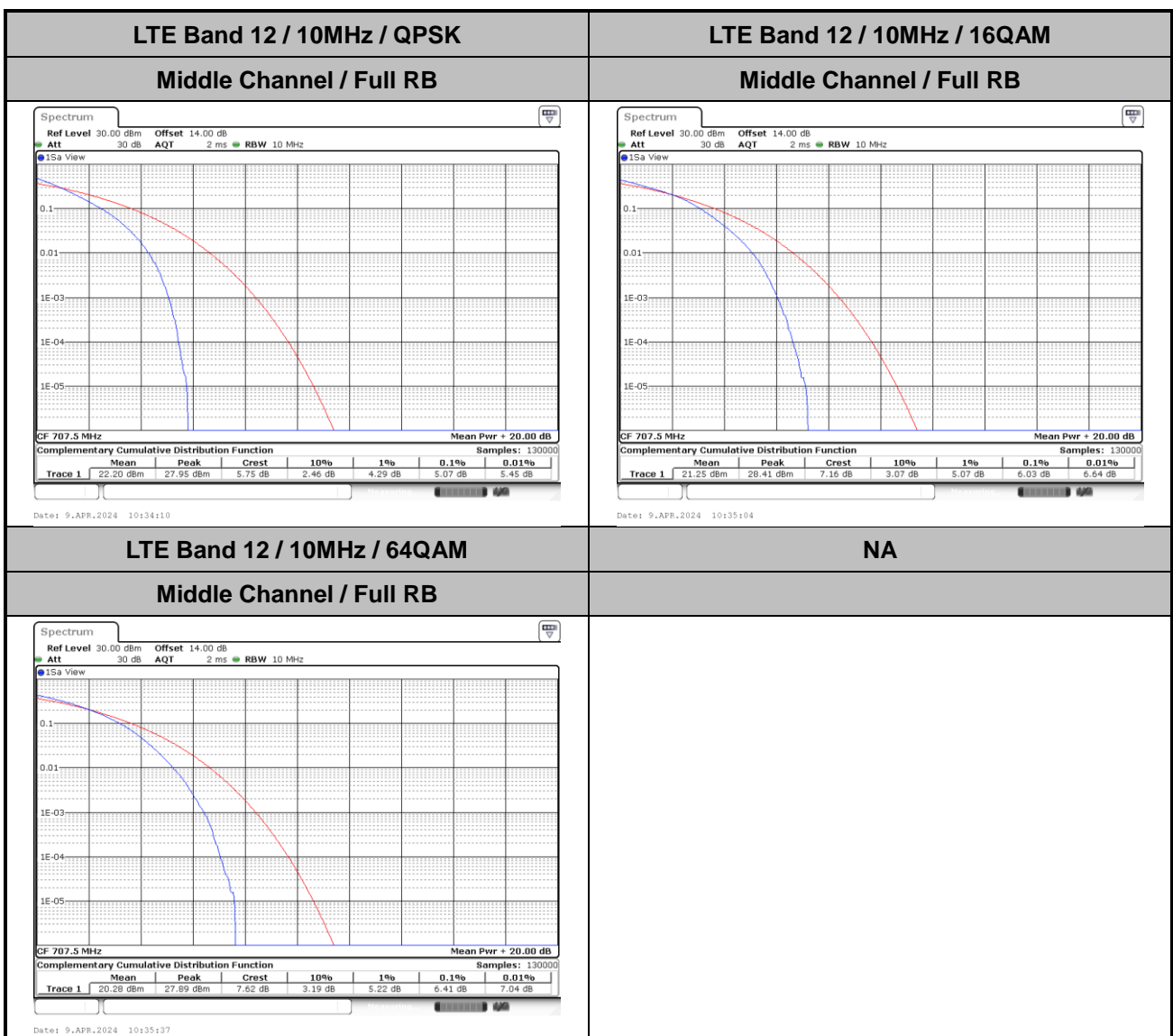




LTE Band 12

Peak-to-Average Ratio

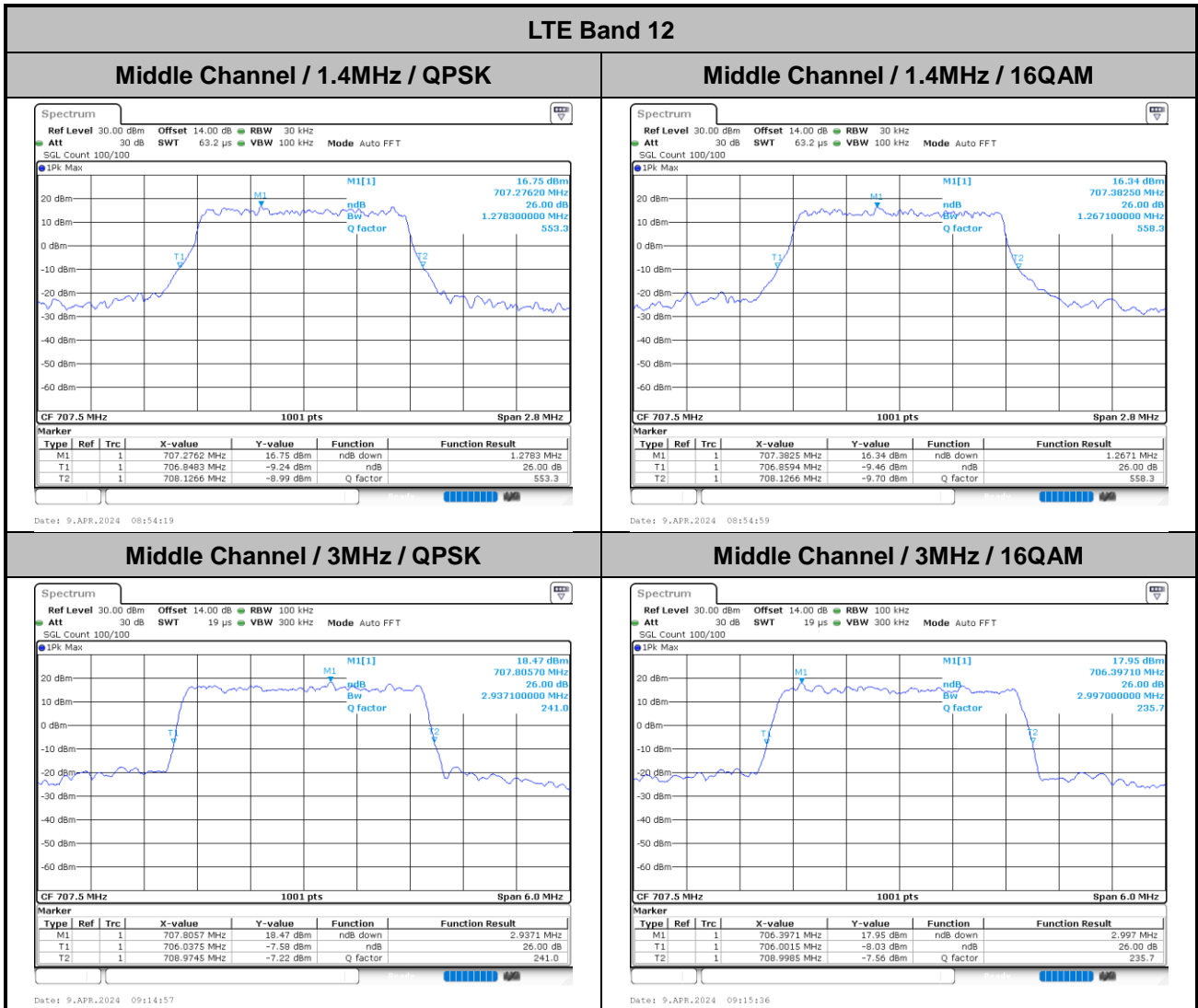
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.07	6.03	6.41	PASS





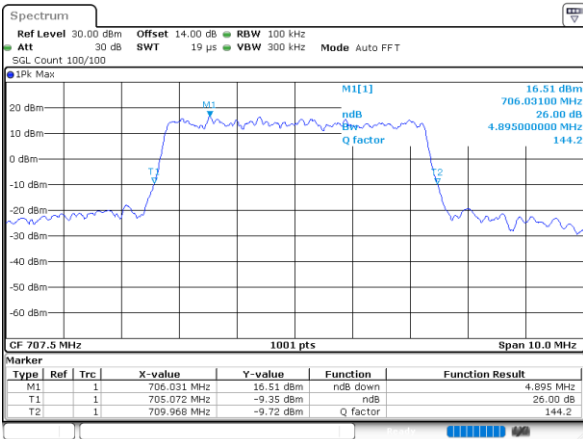
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.27	2.94	3.00	4.90	4.91	9.81	9.83



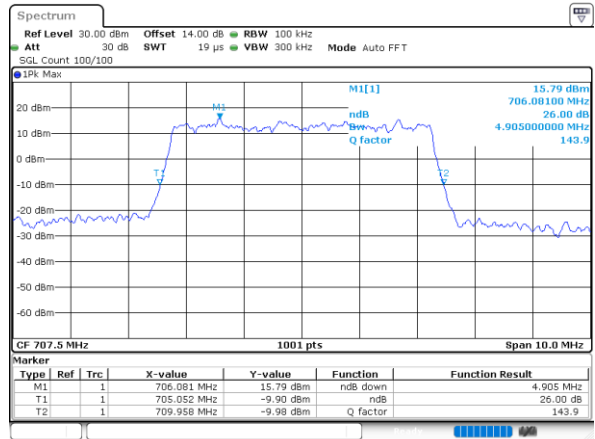


Middle Channel / 5MHz / QPSK



Date: 9.APR.2024 09:32:49

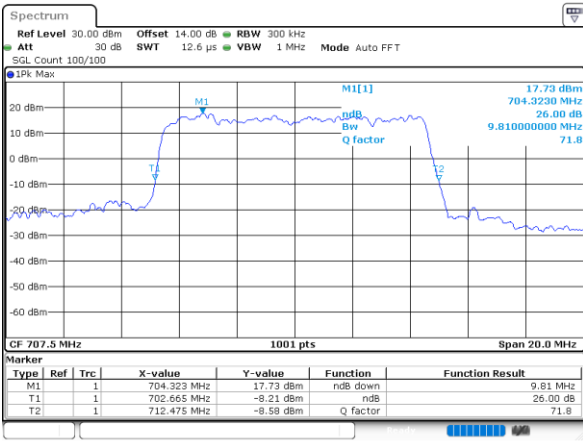
Middle Channel / 5MHz / 16QAM



Date: 9.APR.2024 09:33:29

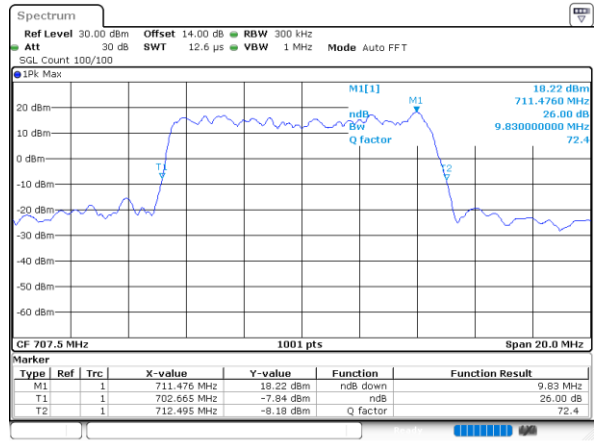
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 9.APR.2024 09:48:42

Middle Channel / 10MHz / 16QAM

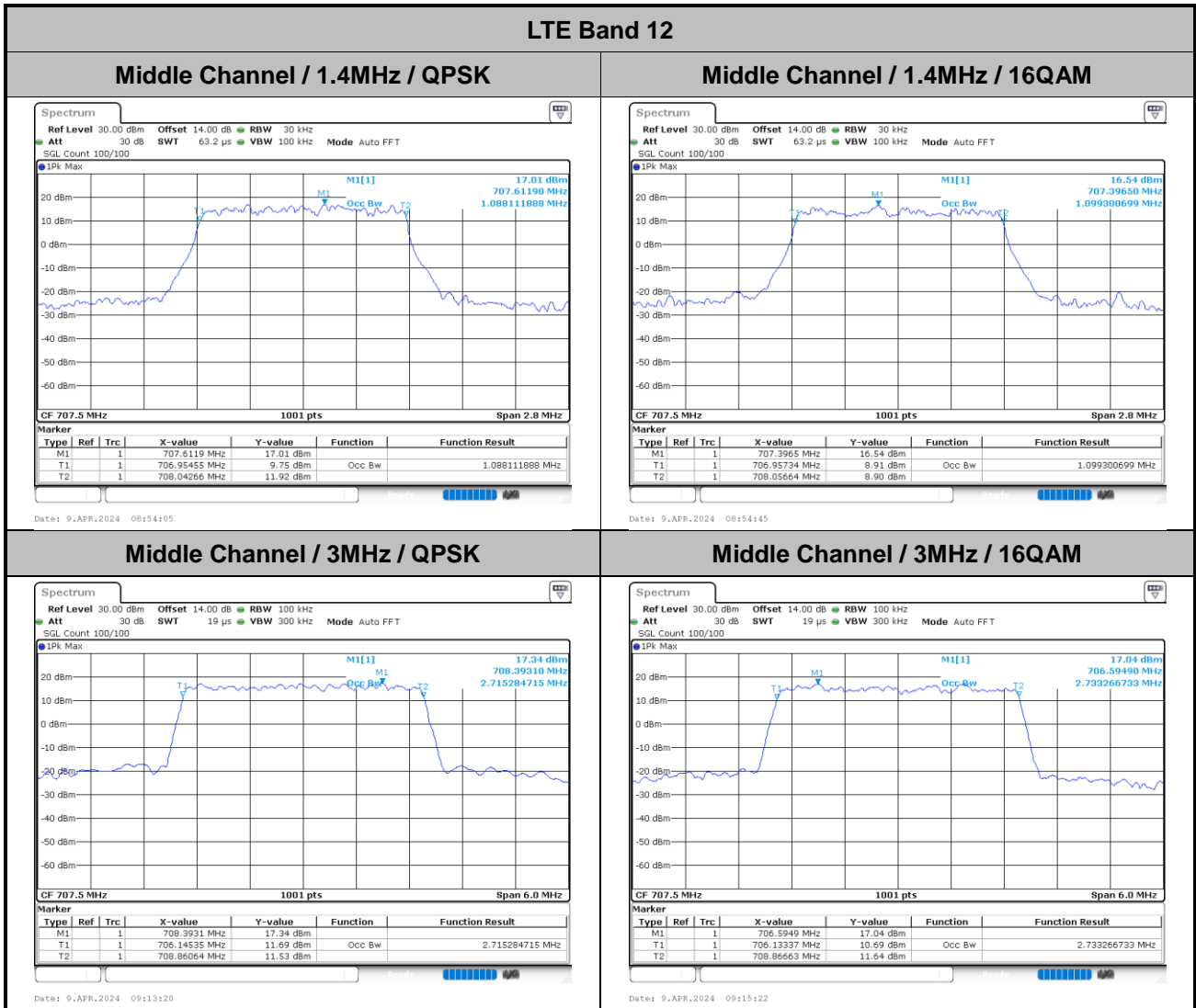


Date: 9.APR.2024 09:49:22



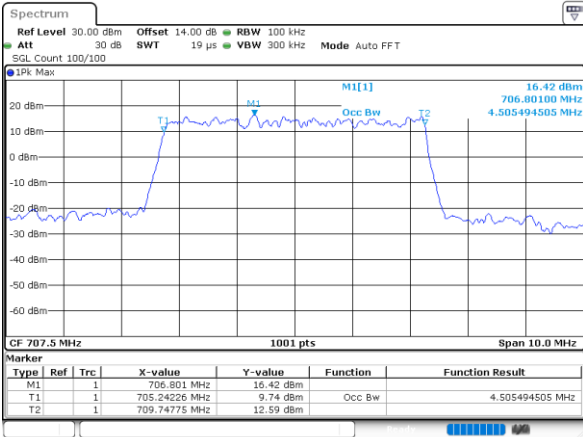
Occupied Bandwidth

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	1.10	2.72	2.73	4.51	4.51	8.99	9.05



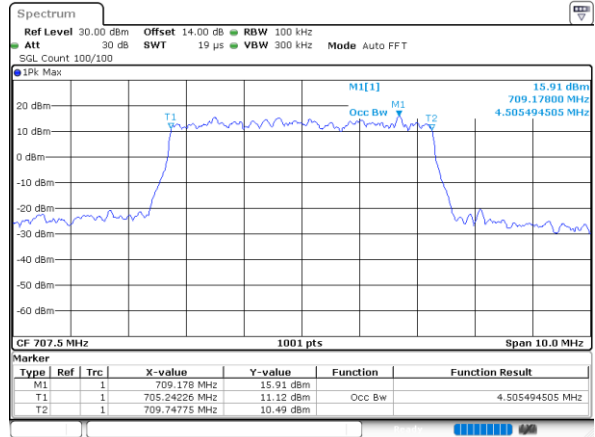


Middle Channel / 5MHz / QPSK



Date: 9,APR,2024 09:32:35

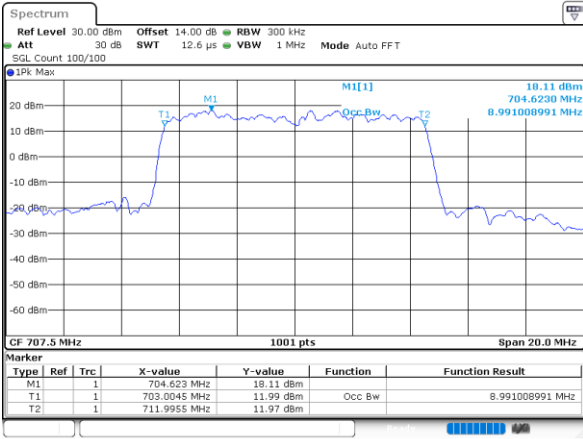
Middle Channel / 5MHz / 16QAM



Date: 9,APR,2024 09:33:15

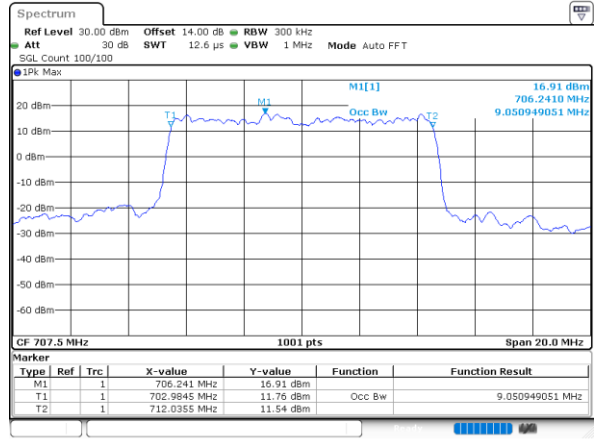
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 9,APR,2024 09:46:28

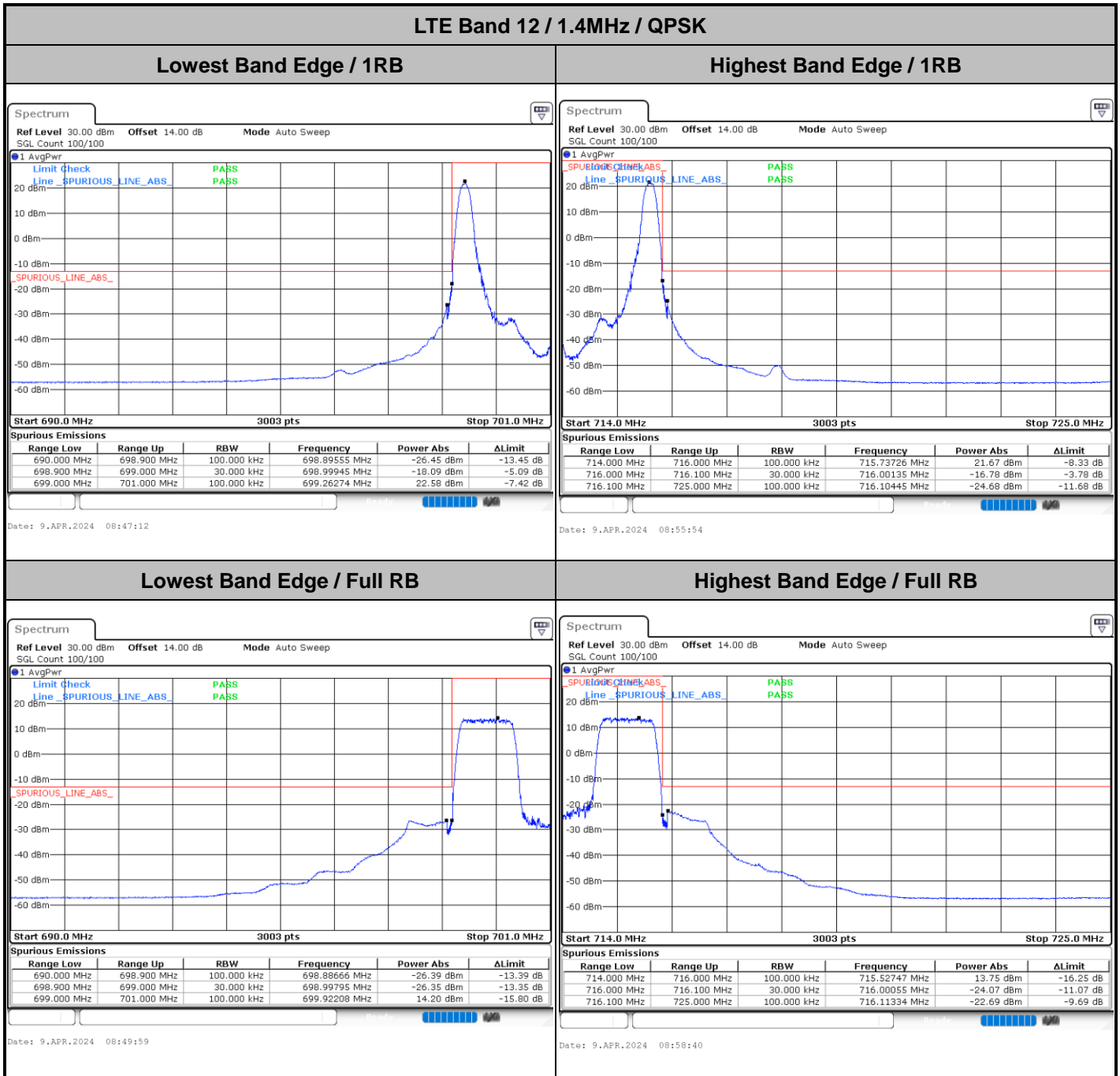
Middle Channel / 10MHz / 16QAM



Date: 9,APR,2024 09:49:08



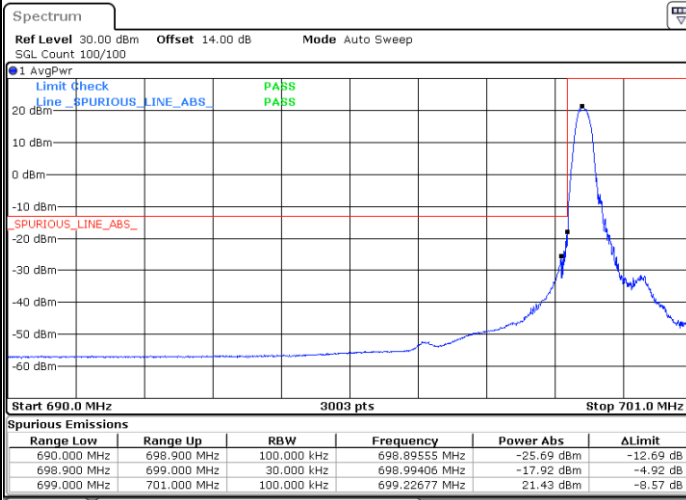
Conducted Band Edge





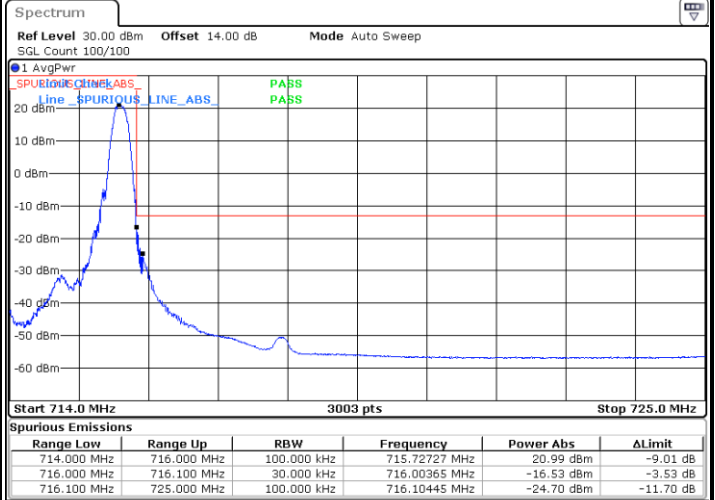
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



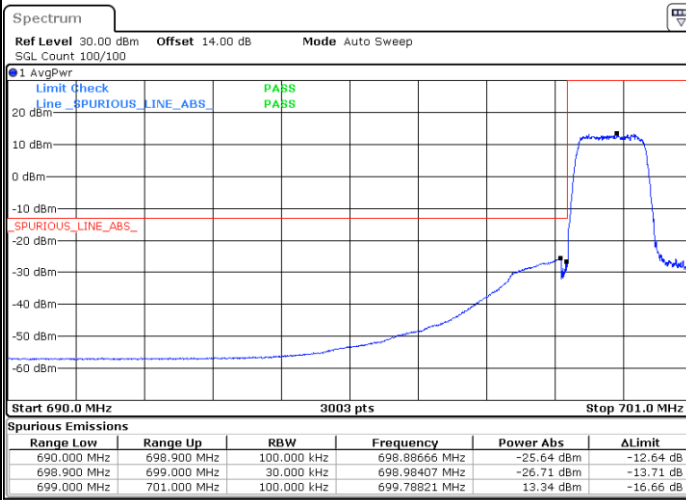
Date: 9.APR.2024 08:48:08

Highest Band Edge / 1 RB



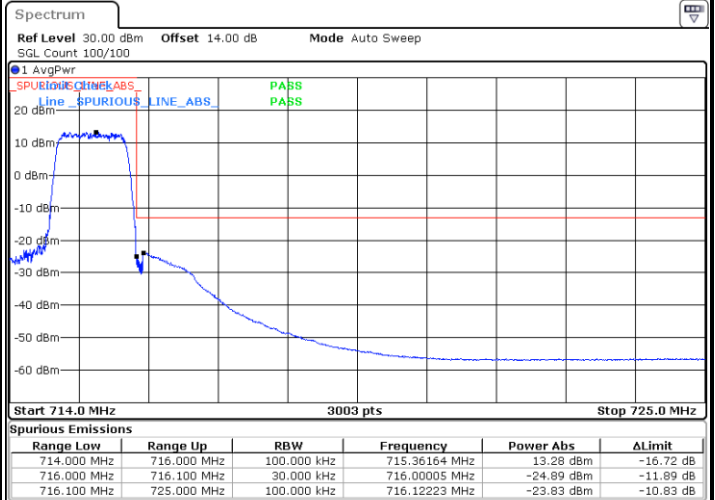
Date: 9.APR.2024 08:56:49

Lowest Band Edge / Full RB



Date: 9.APR.2024 08:50:55

Highest Band Edge / Full RB

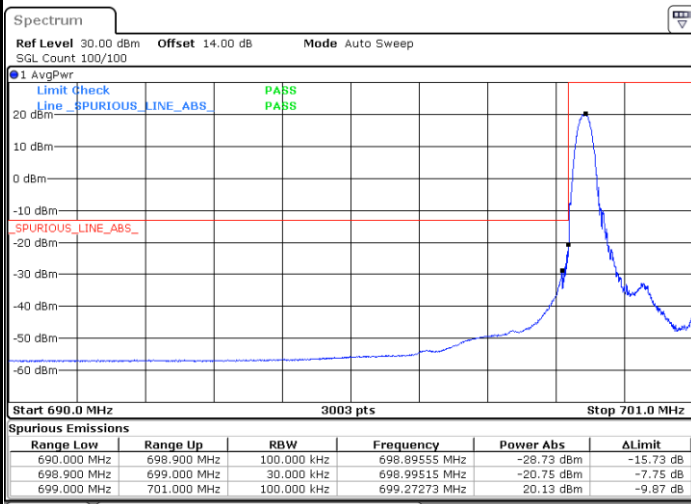


Date: 9.APR.2024 08:59:36



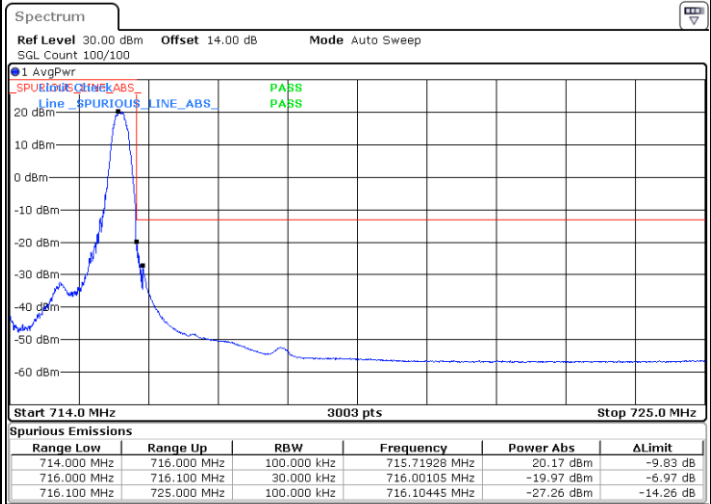
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



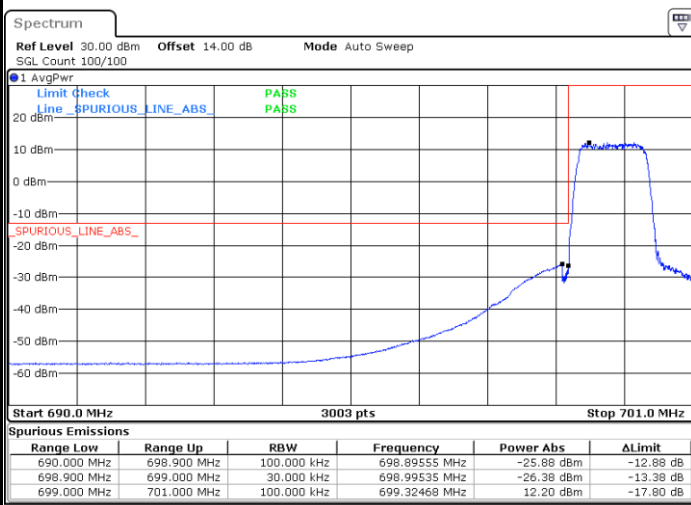
Date: 9.APR.2024 08:49:03

Highest Band Edge / 1 RB



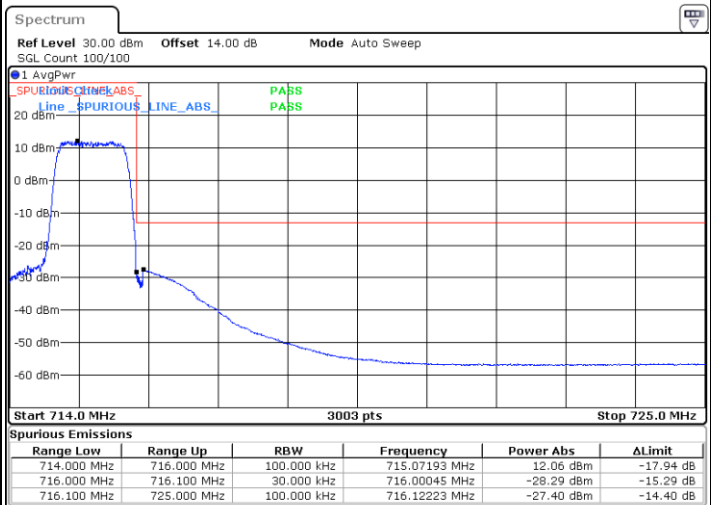
Date: 9.APR.2024 08:57:45

Lowest Band Edge / Full RB



Date: 9.APR.2024 08:51:50

Highest Band Edge / Full RB

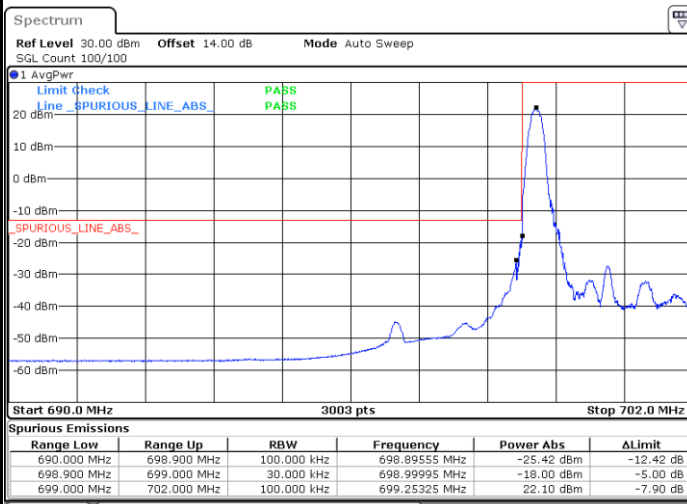


Date: 9.APR.2024 09:00:31



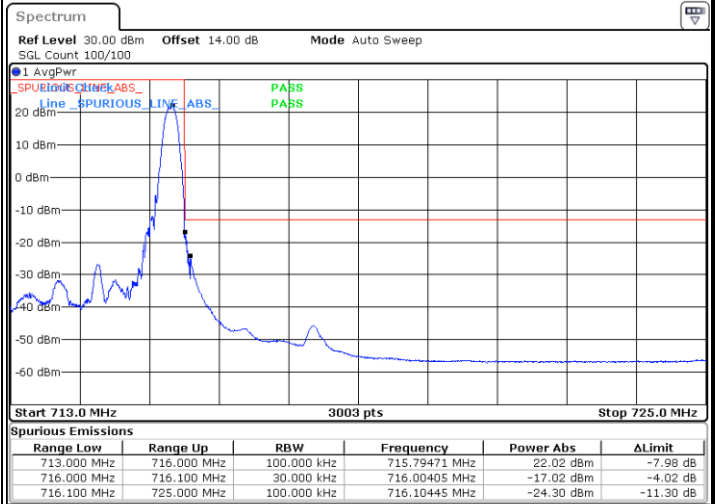
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



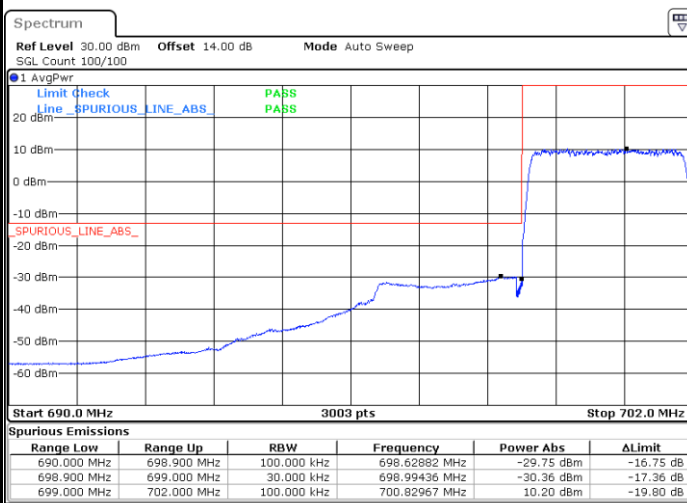
Date: 9.APR.2024 09:06:26

Highest Band Edge / 1RB



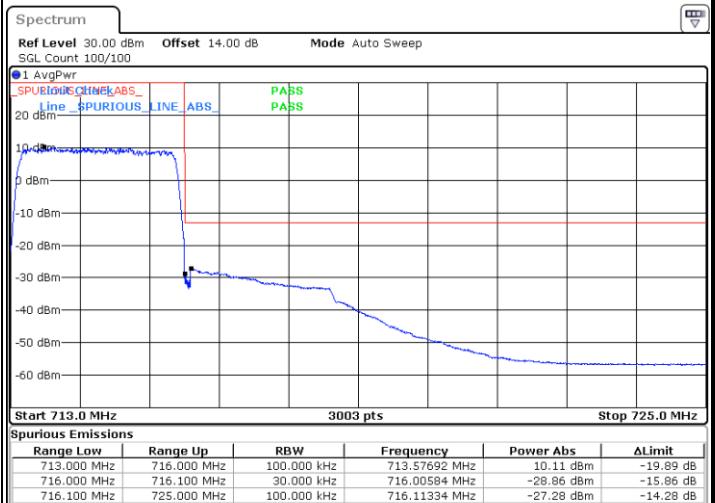
Date: 9.APR.2024 09:16:31

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:09:13

Highest Band Edge / Full RB

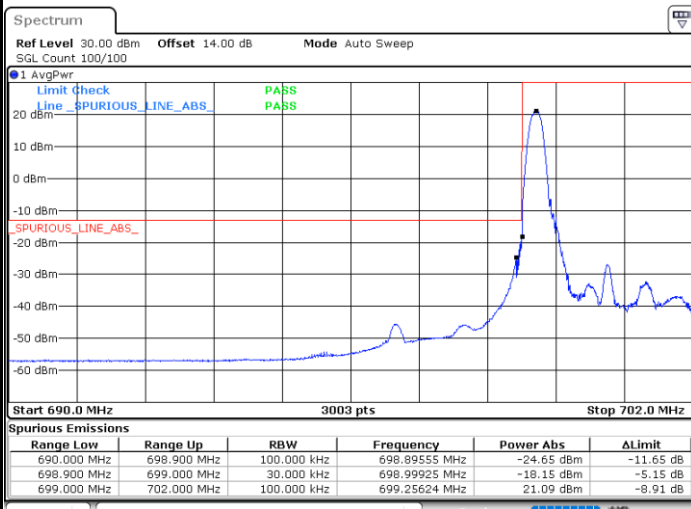


Date: 9.APR.2024 09:19:18



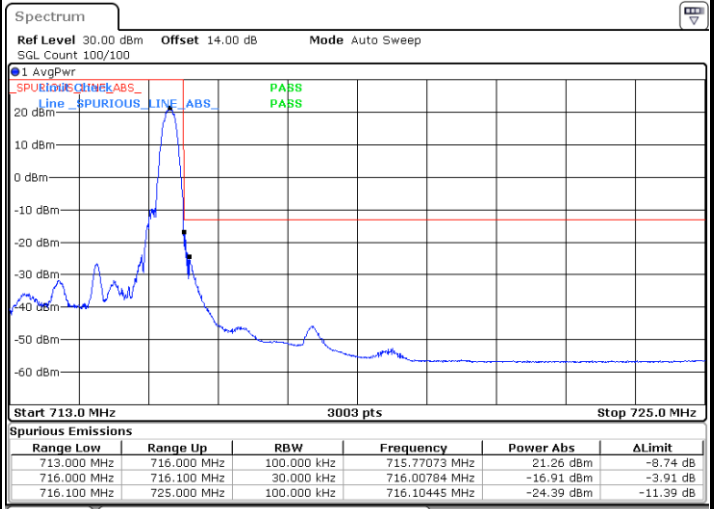
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



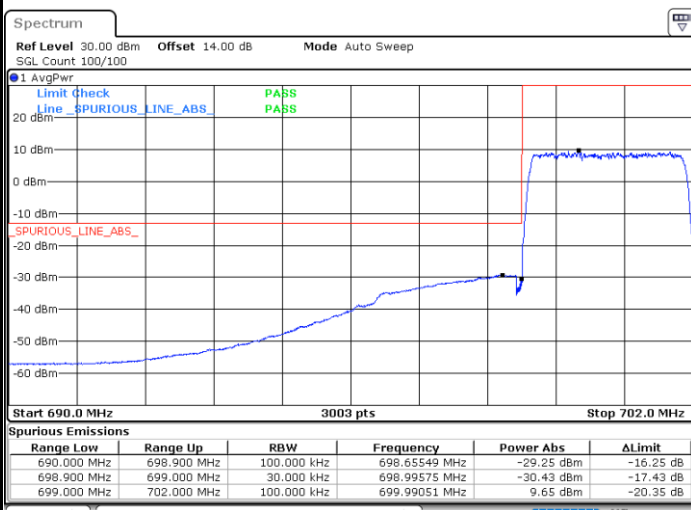
Date: 9.APR.2024 09:07:22

Highest Band Edge / 1 RB



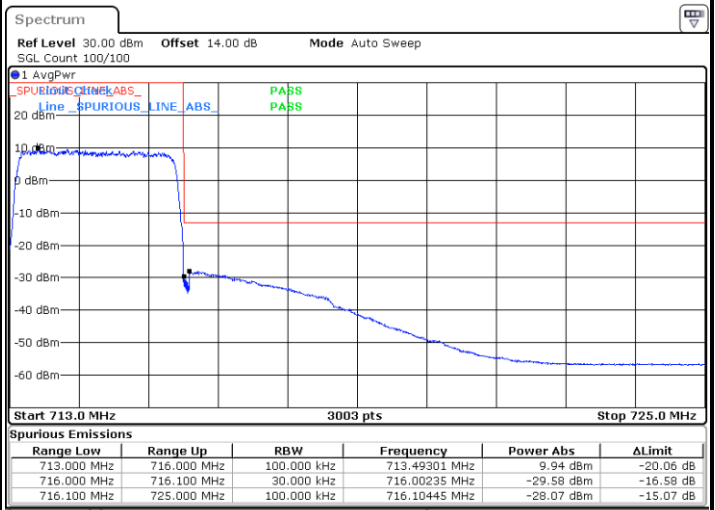
Date: 9.APR.2024 09:17:27

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:10:09

Highest Band Edge / Full RB

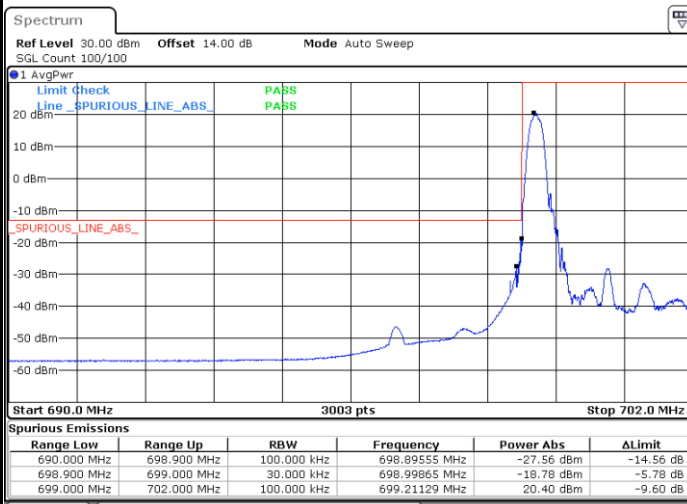


Date: 9.APR.2024 09:20:14



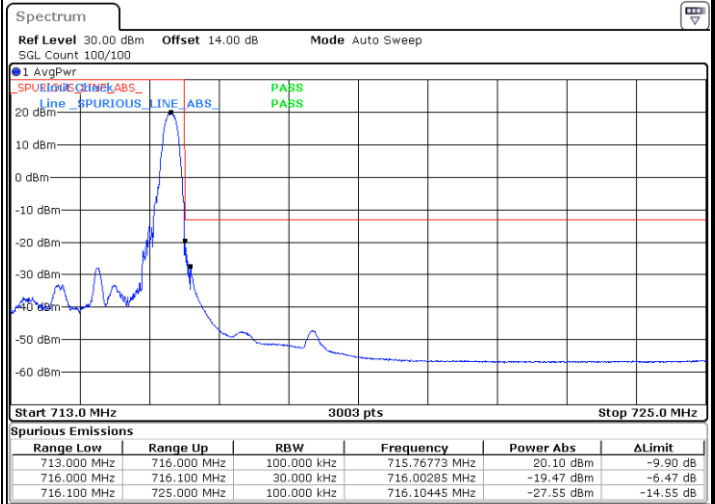
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



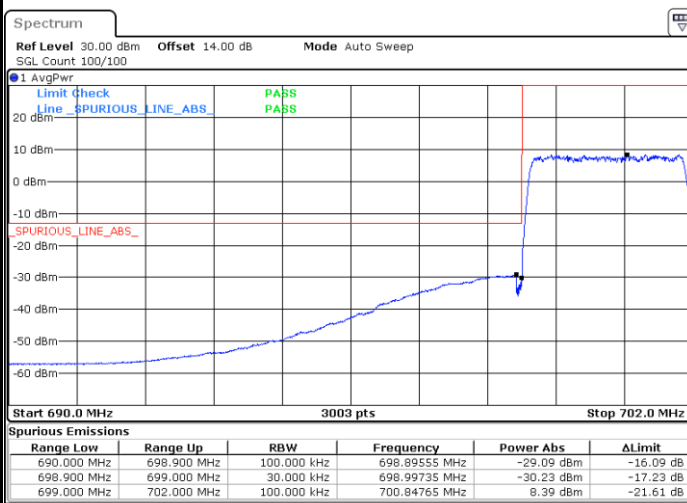
Date: 9.APR.2024 09:08:17

Highest Band Edge / 1 RB



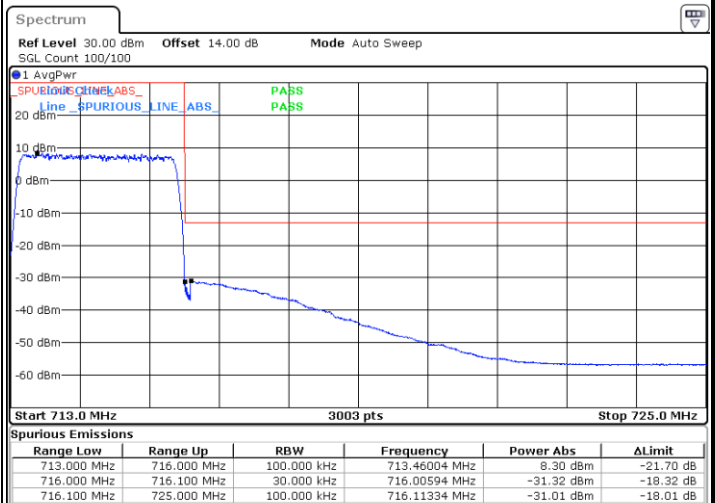
Date: 9.APR.2024 09:18:22

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:11:04

Highest Band Edge / Full RB

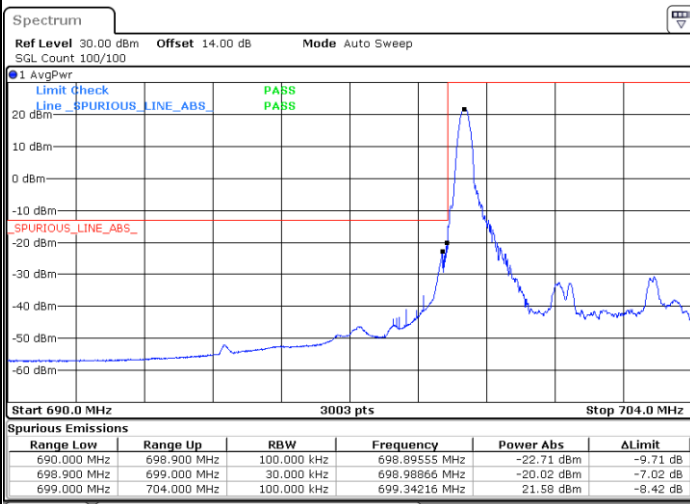


Date: 9.APR.2024 09:21:09



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



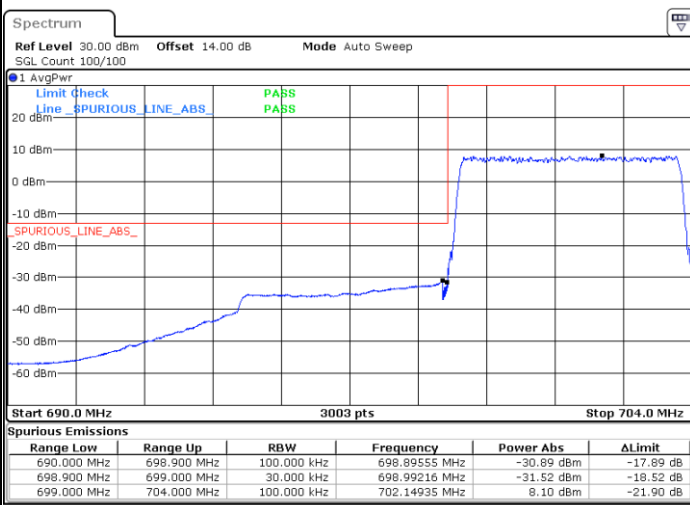
Date: 9.APR.2024 09:25:42

Highest Band Edge / 1RB



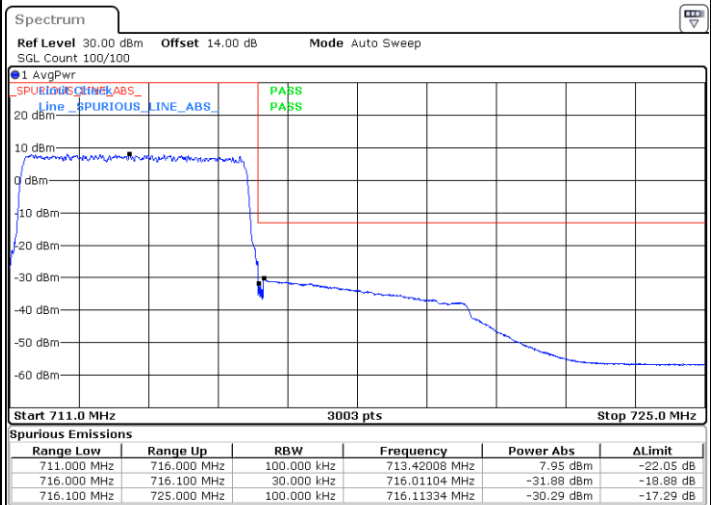
Date: 9.APR.2024 09:34:24

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:28:29

Highest Band Edge / Full RB

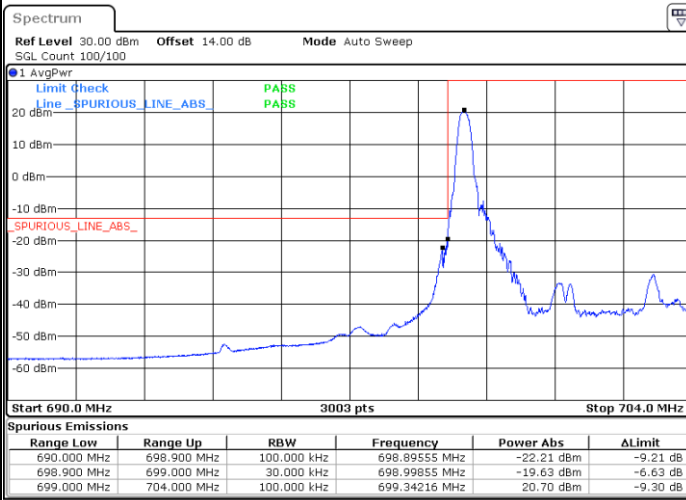


Date: 9.APR.2024 09:37:11



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



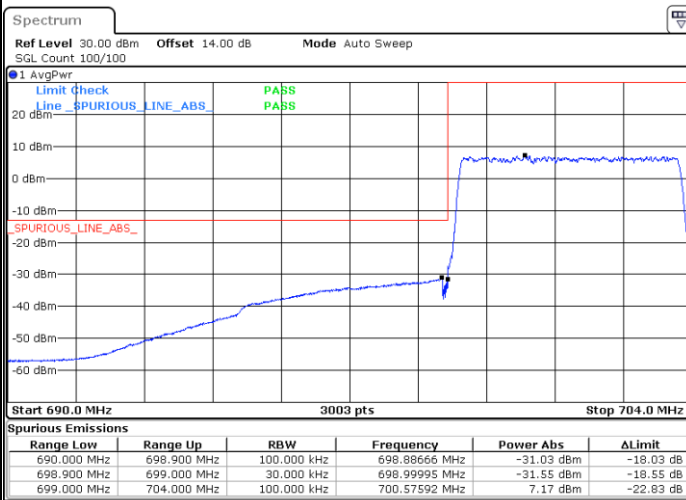
Date: 9.APR.2024 09:26:38

Highest Band Edge / 1 RB



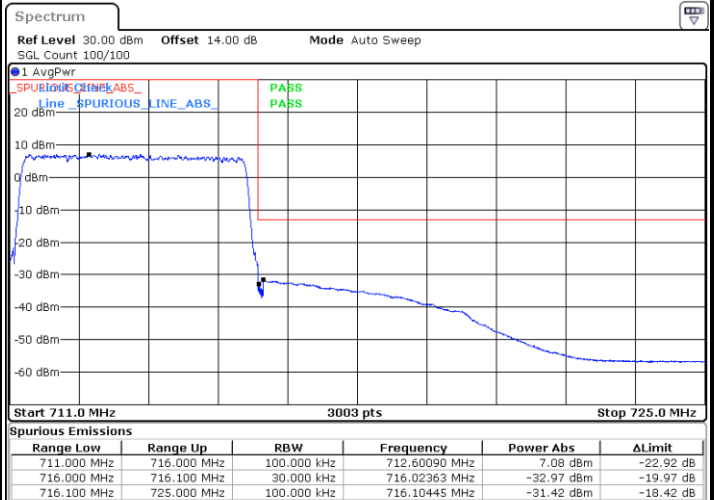
Date: 9.APR.2024 09:35:19

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:29:25

Highest Band Edge / Full RB

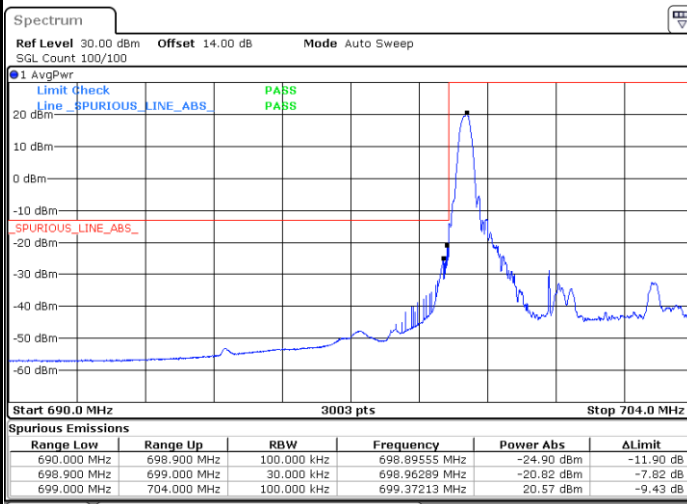


Date: 9.APR.2024 09:38:06



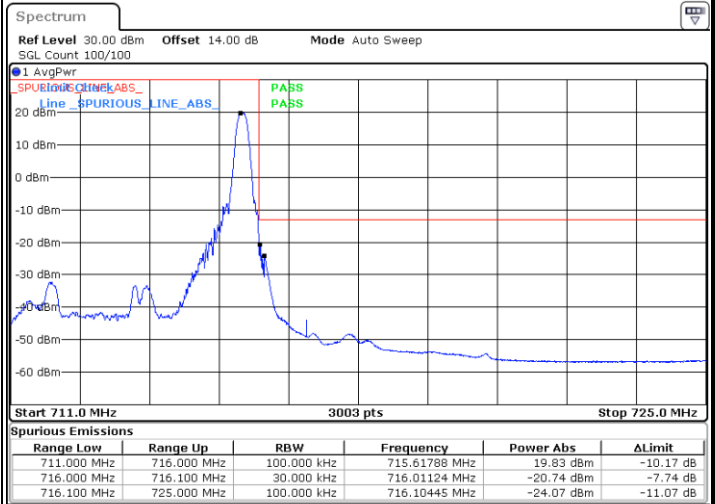
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



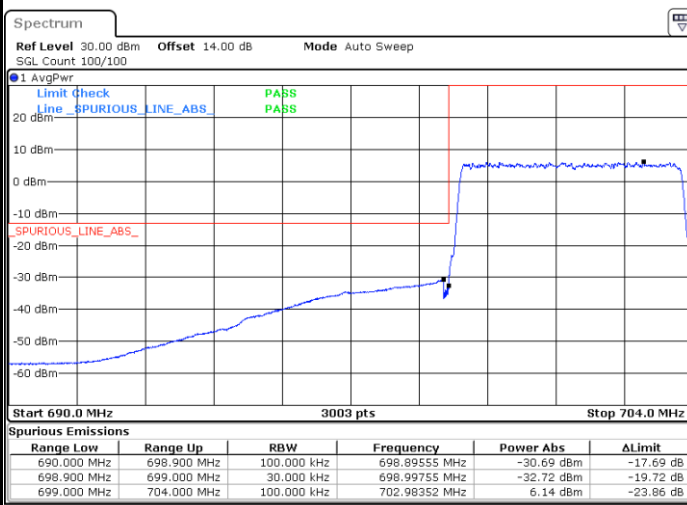
Date: 9.APR.2024 09:27:33

Highest Band Edge / 1 RB



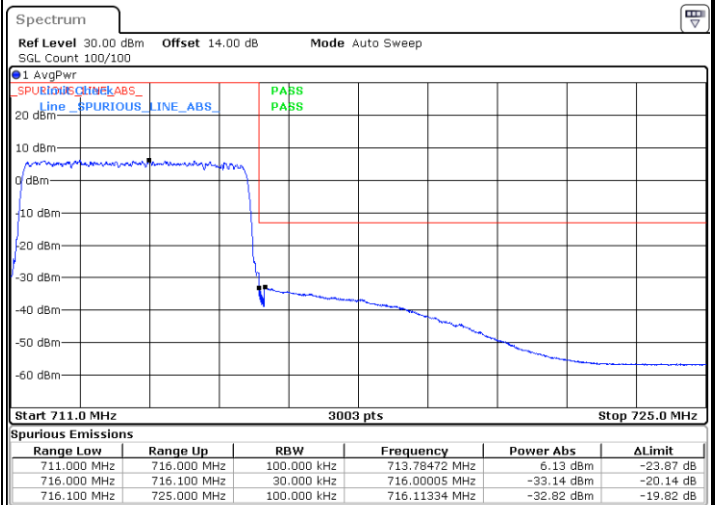
Date: 9.APR.2024 09:36:15

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:30:20

Highest Band Edge / Full RB

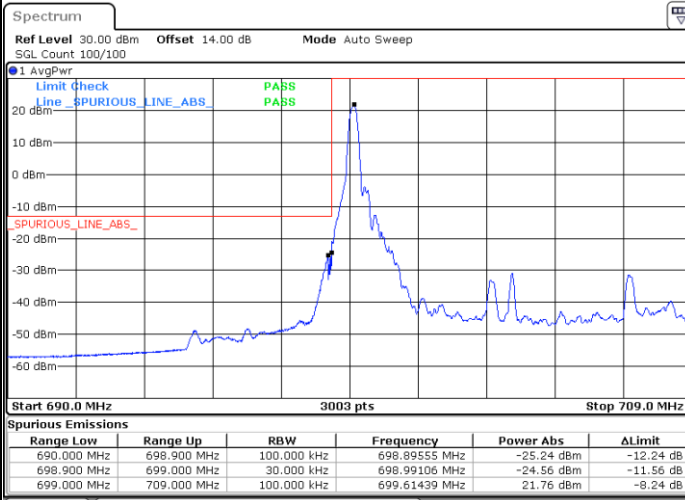


Date: 9.APR.2024 09:39:02



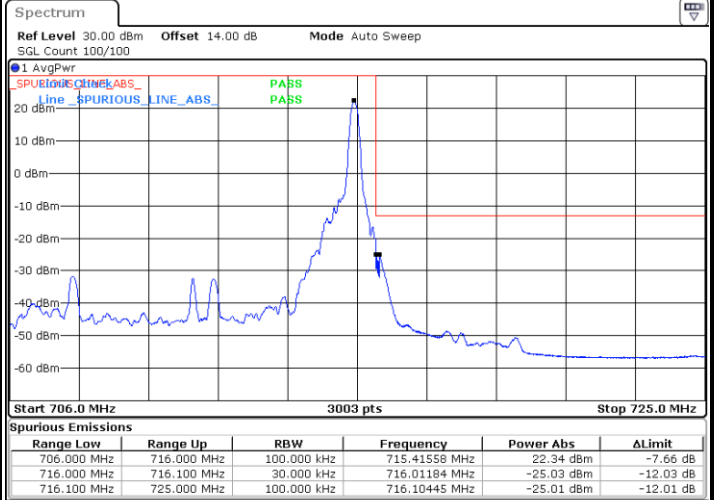
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



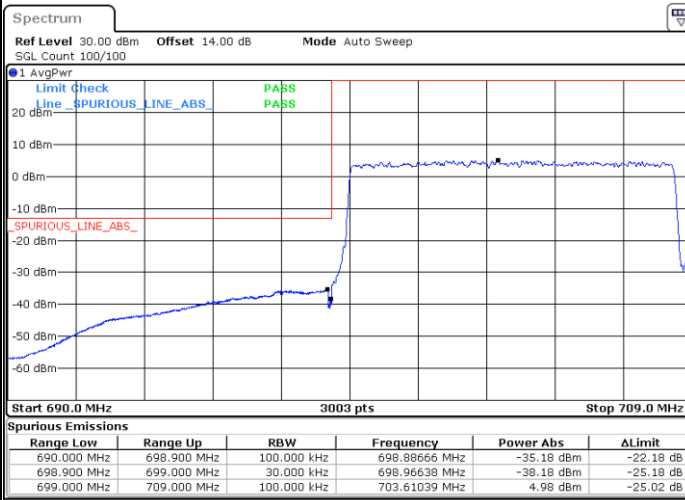
Date: 9.APR.2024 09:41:35

Highest Band Edge / 1RB



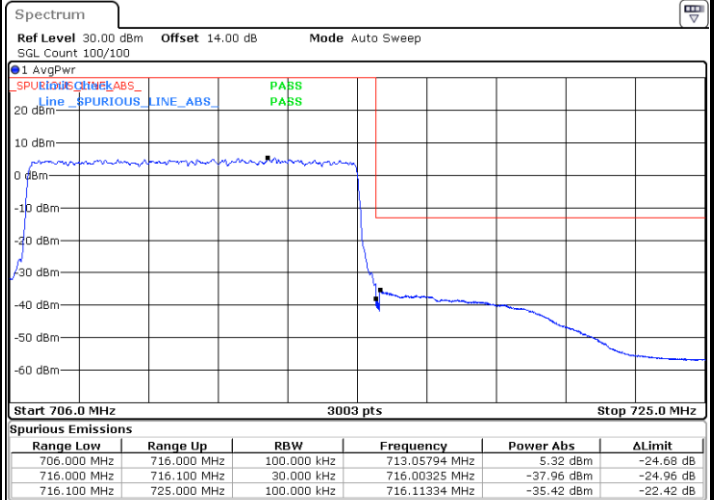
Date: 9.APR.2024 09:50:17

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:44:22

Highest Band Edge / Full RB

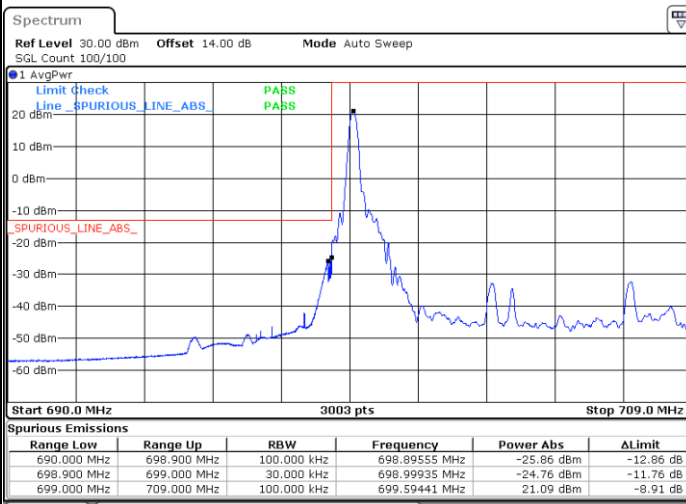


Date: 9.APR.2024 09:53:03



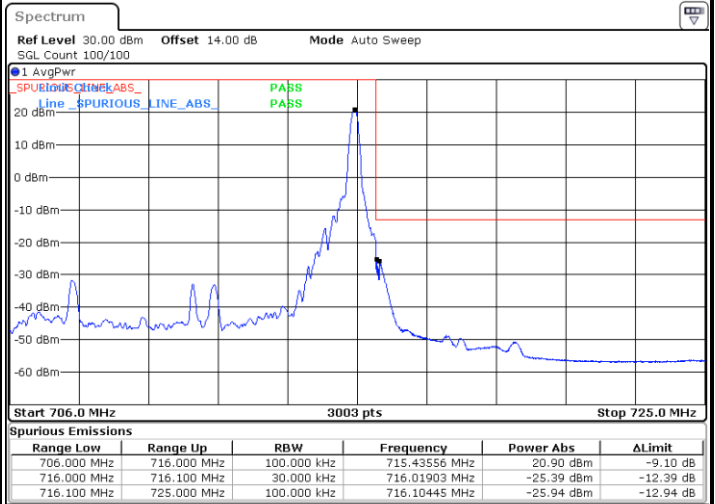
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



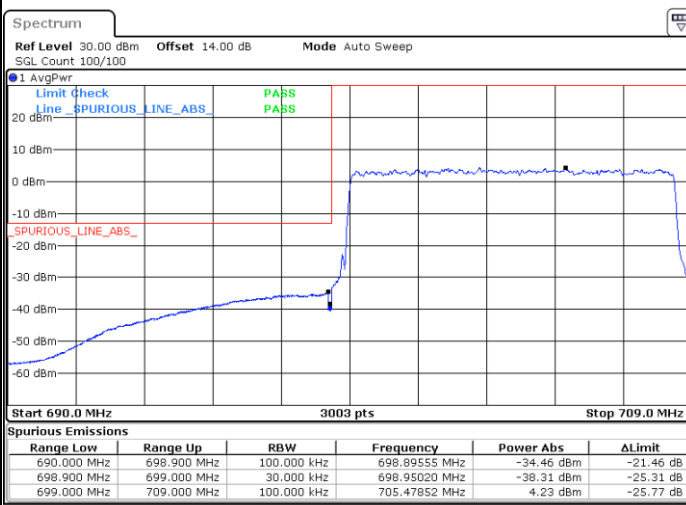
Date: 9.APR.2024 09:42:31

Highest Band Edge / 1 RB



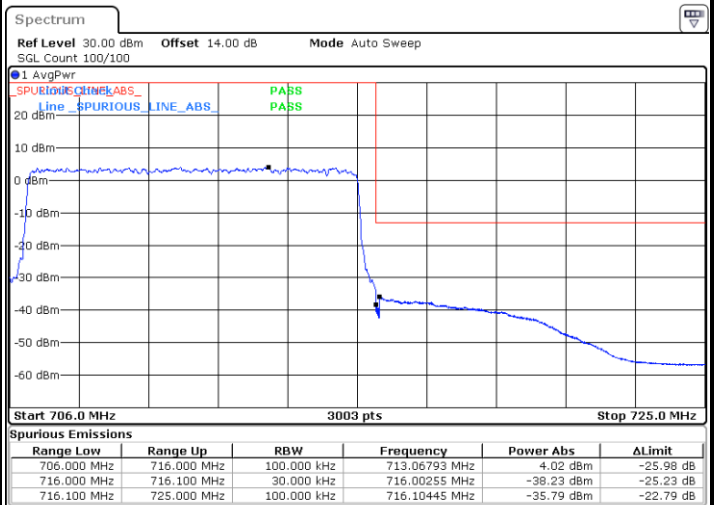
Date: 9.APR.2024 09:51:12

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:45:18

Highest Band Edge / Full RB

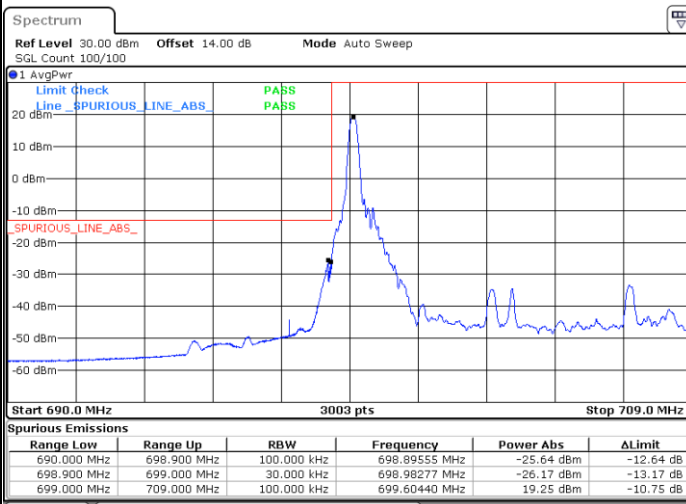


Date: 9.APR.2024 09:53:59



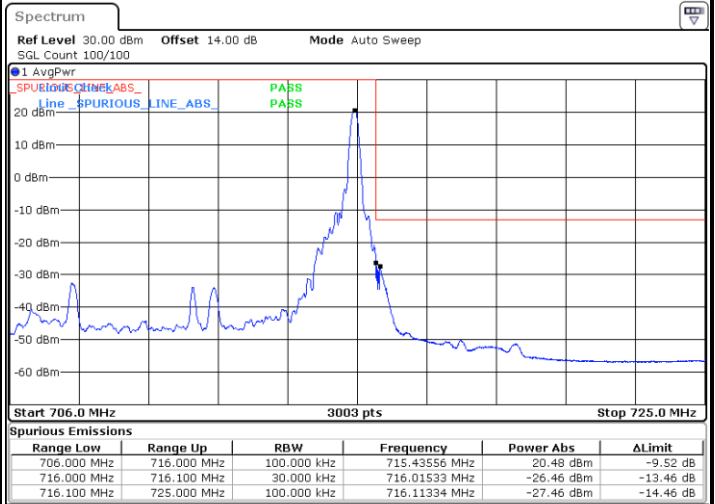
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



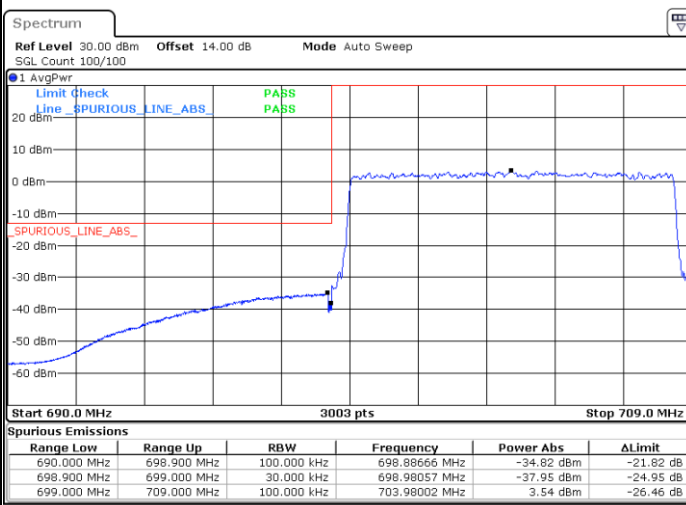
Date: 9.APR.2024 09:43:26

Highest Band Edge / 1 RB



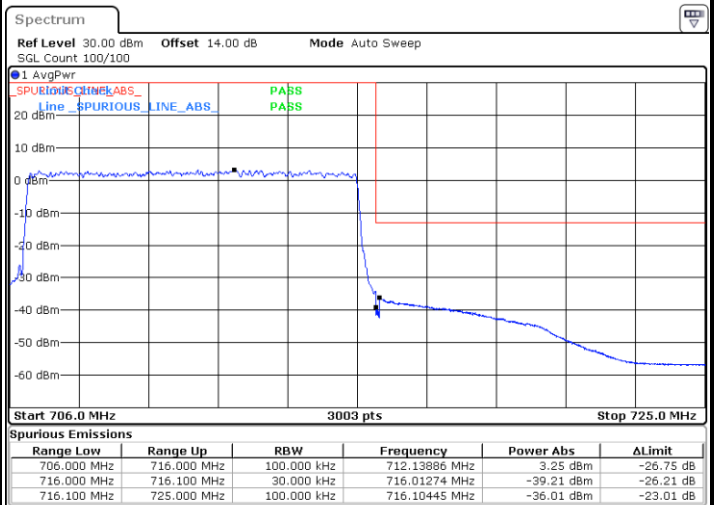
Date: 9.APR.2024 09:52:08

Lowest Band Edge / Full RB



Date: 9.APR.2024 09:46:13

Highest Band Edge / Full RB



Date: 9.APR.2024 09:54:54



Conducted Spurious Emission

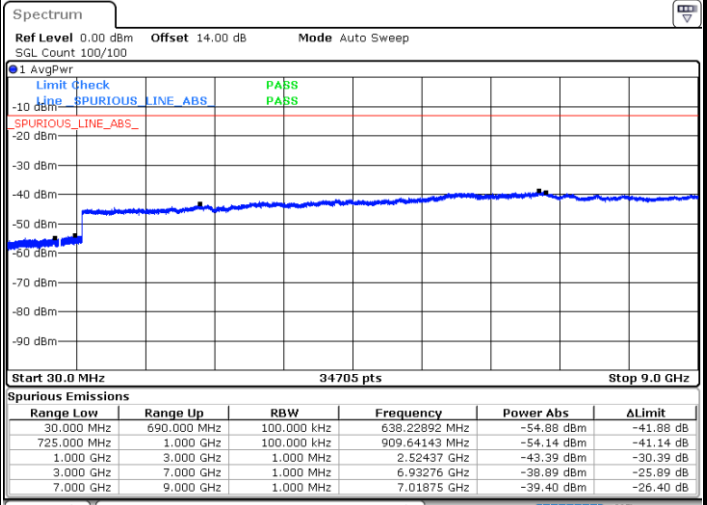
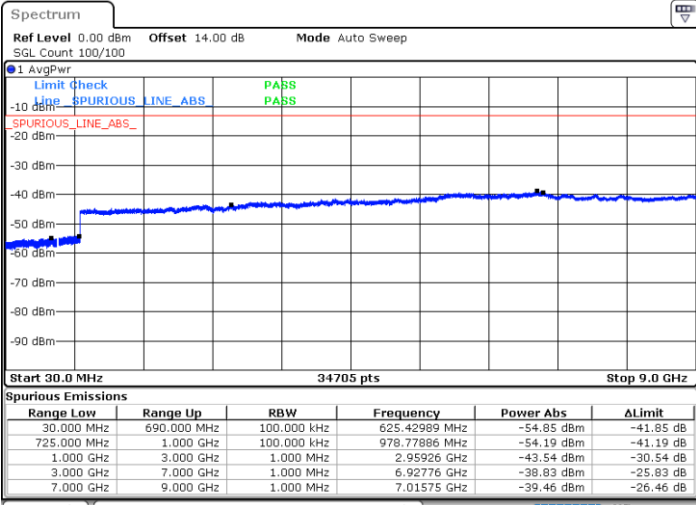




LTE Band 12 / 3MHz

Lowest Channel / QPSK

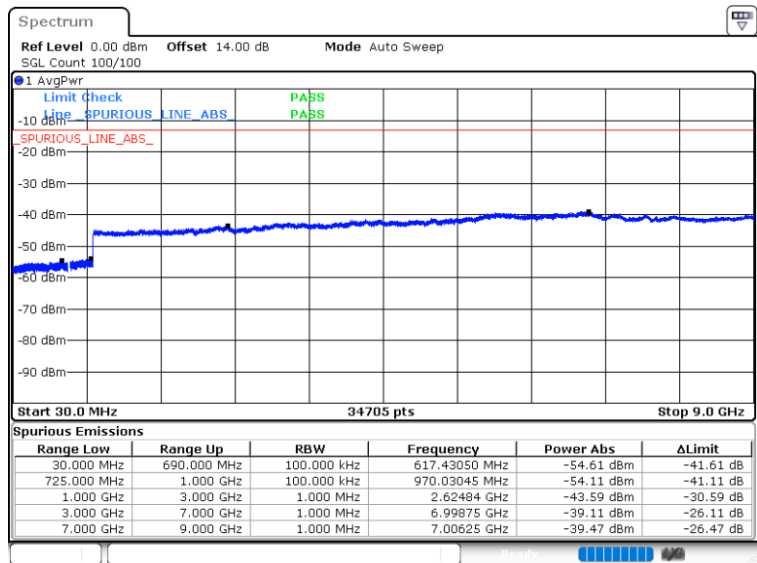
Middle Channel / QPSK



Date: 9.APR.2024 09:11:59

Date: 9.APR.2024 09:12:54

Highest Channel / QPSK



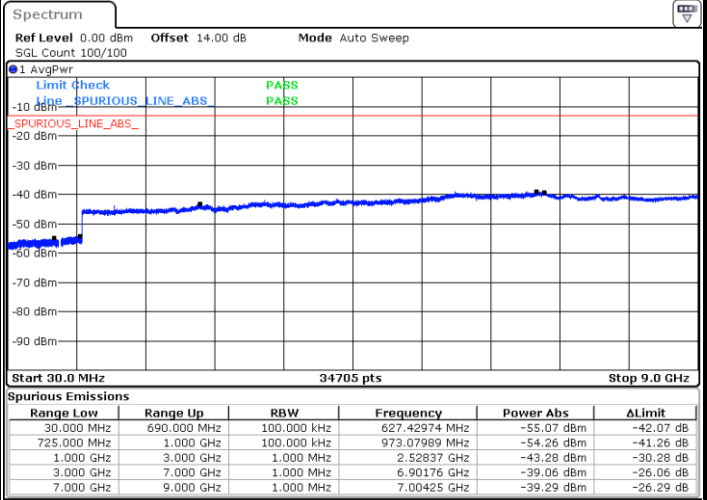
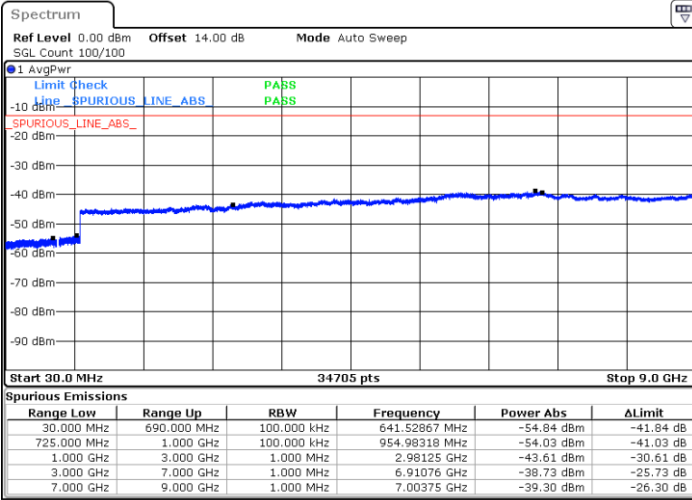
Date: 9.APR.2024 09:22:04



LTE Band 12 / 5MHz

Lowest Channel / QPSK

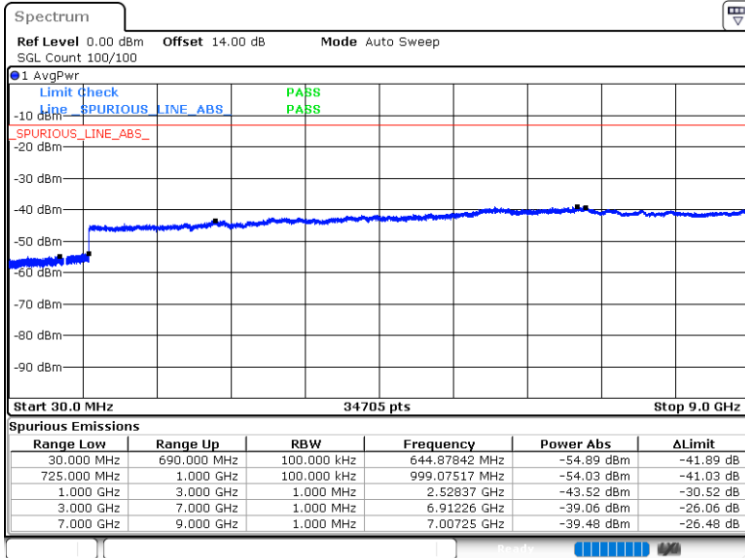
Middle Channel / QPSK



Date: 9.APR.2024 09:31:15

Date: 9.APR.2024 09:32:09

Highest Channel / QPSK



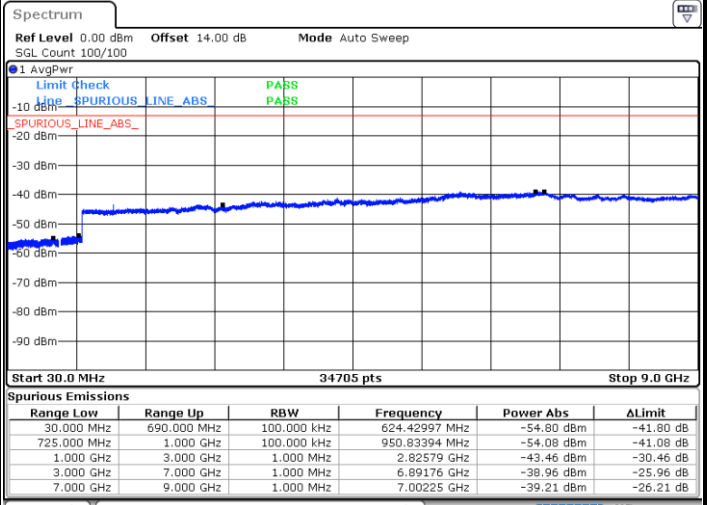
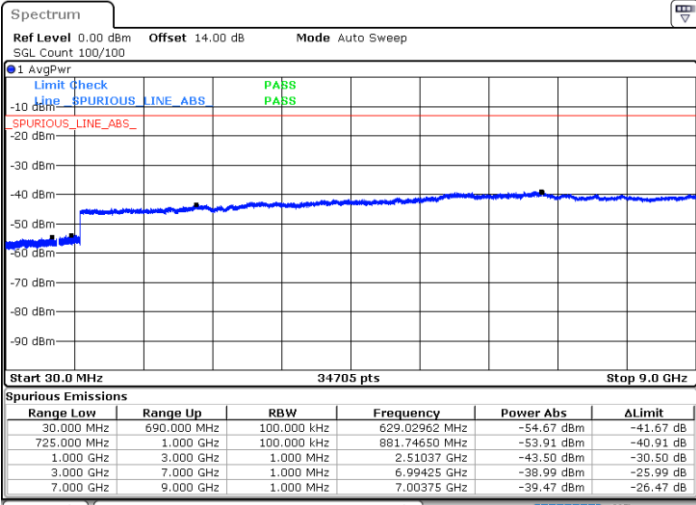
Date: 9.APR.2024 09:39:57



LTE Band 12 / 10MHz

Lowest Channel / QPSK

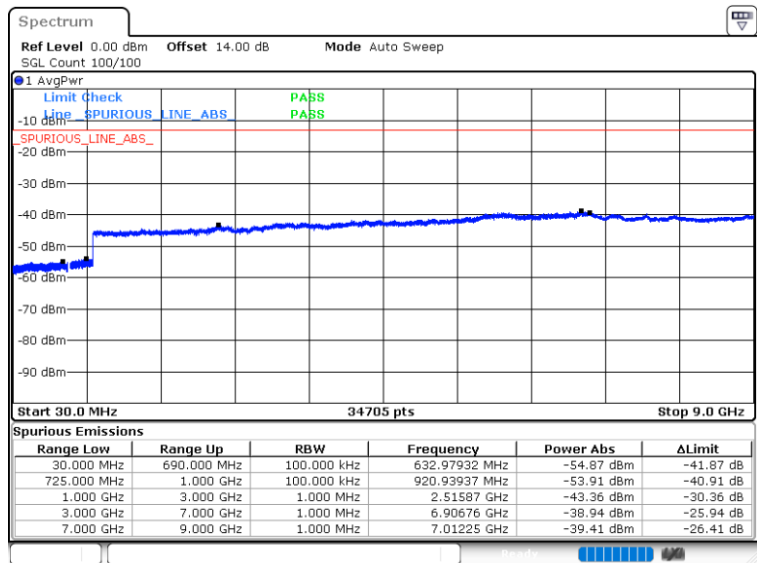
Middle Channel / QPSK



Date: 9.APR.2024 09:47:08

Date: 9.APR.2024 09:48:02

Highest Channel / QPSK



Date: 9.APR.2024 09:55:49



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	0.0013	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

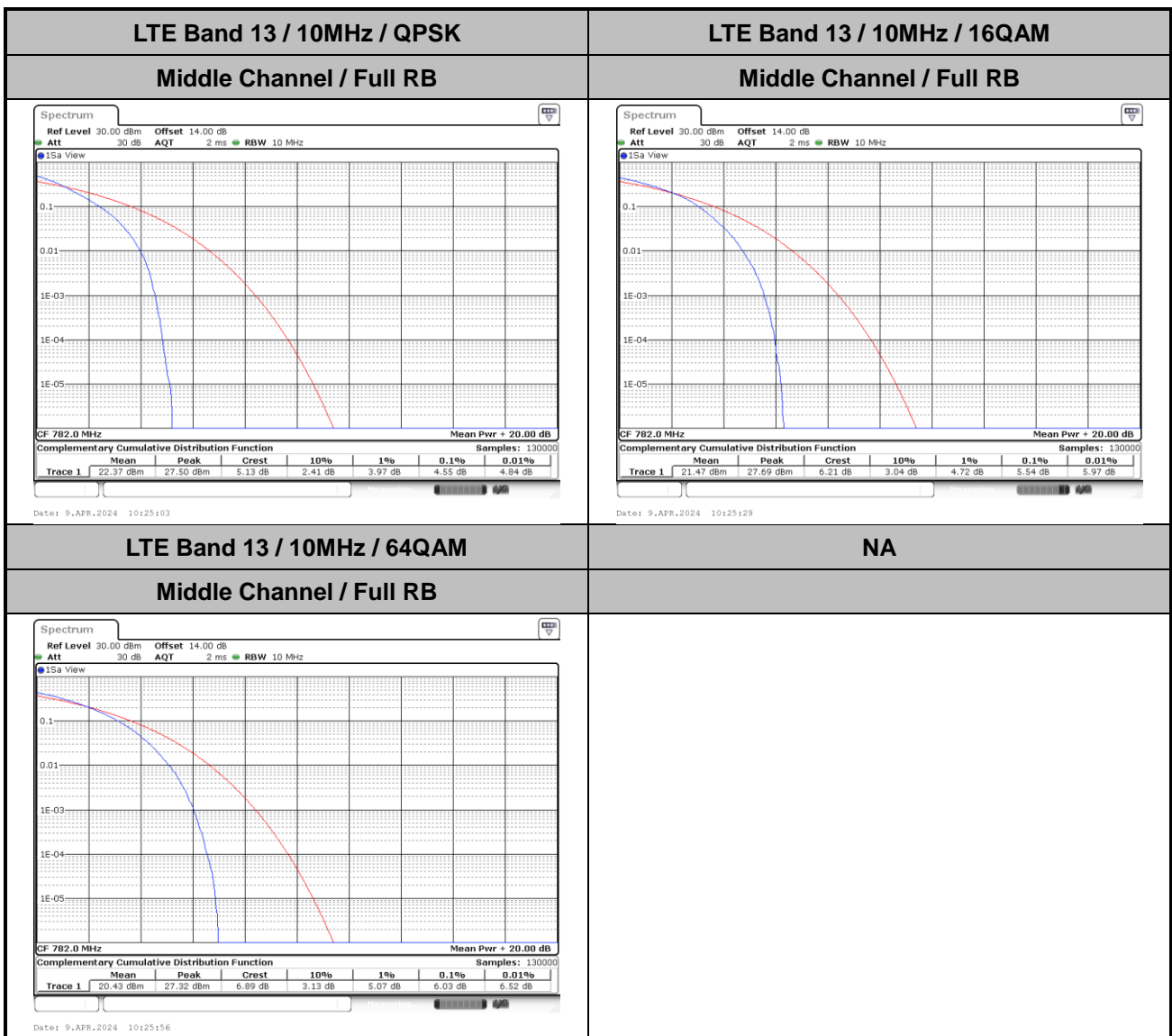
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

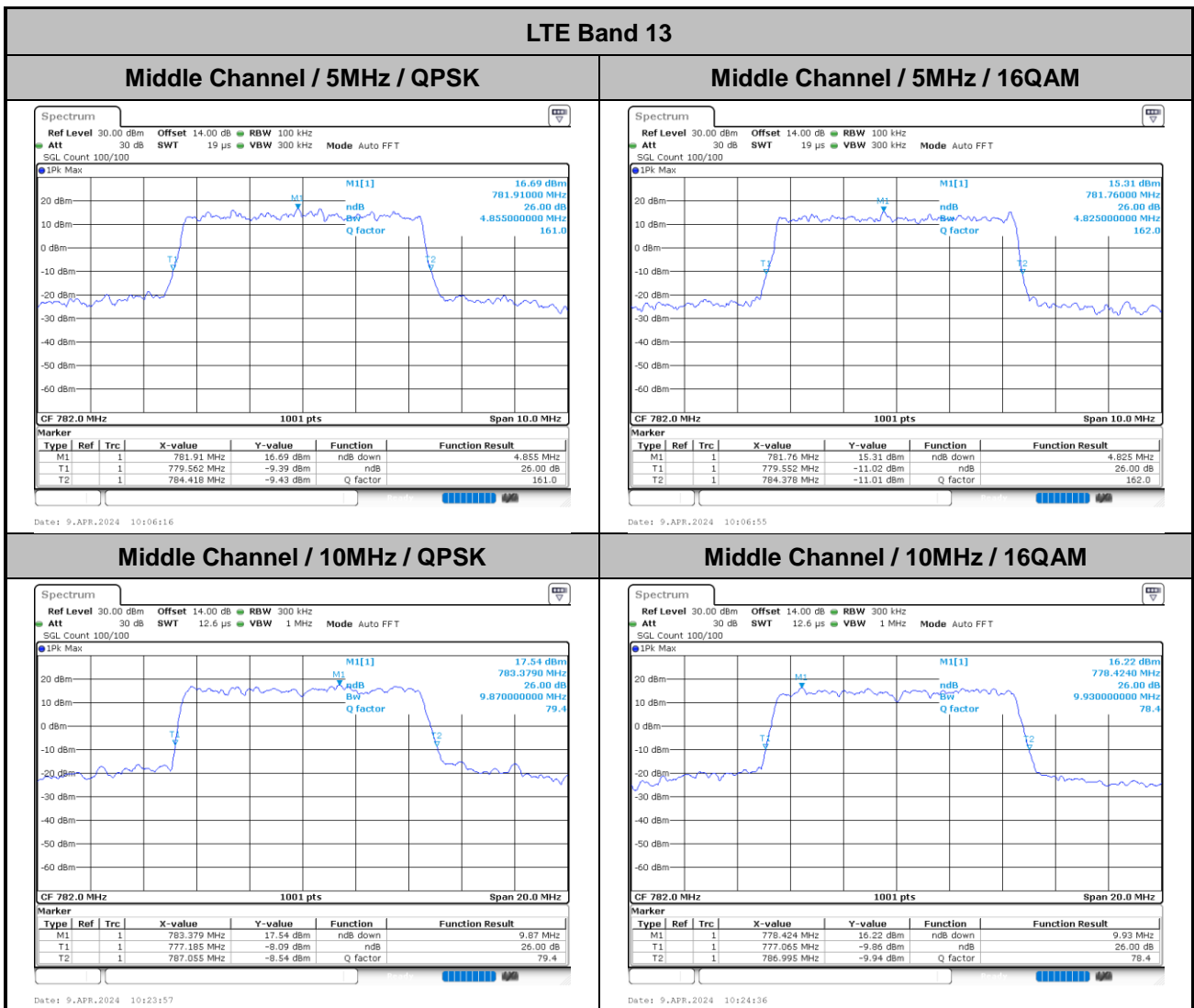
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.54	6.03	PASS





26dB Bandwidth

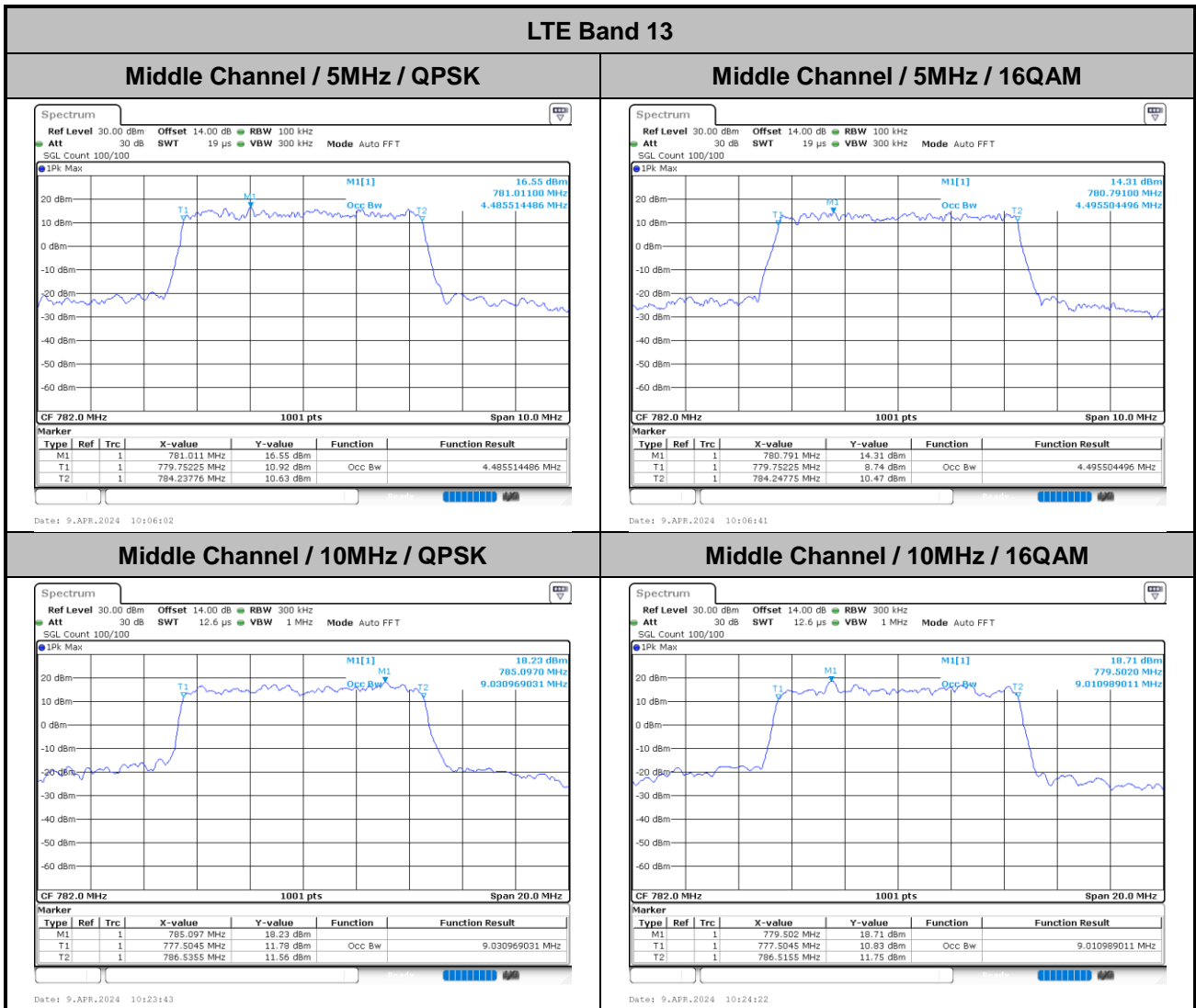
Mode	LTE Band 13 : 26dB BW(MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.86	4.83	9.87	9.93





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.50	9.03	9.01



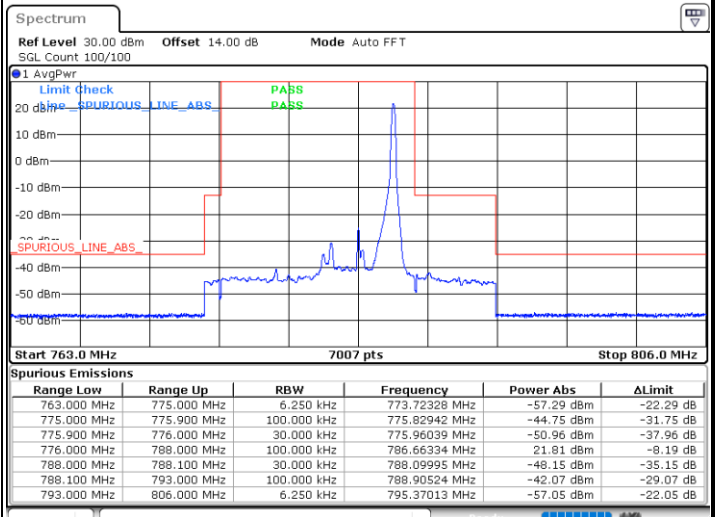
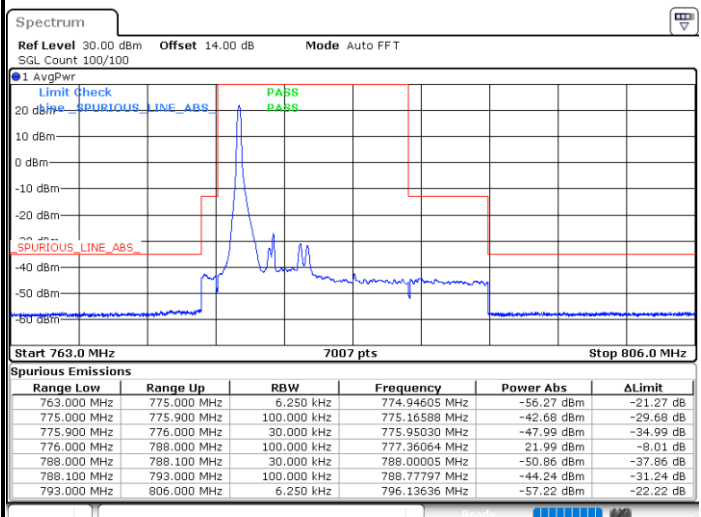


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

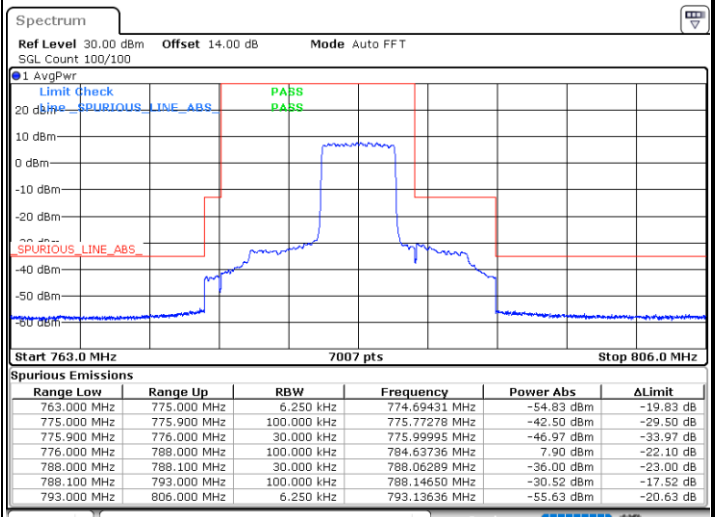
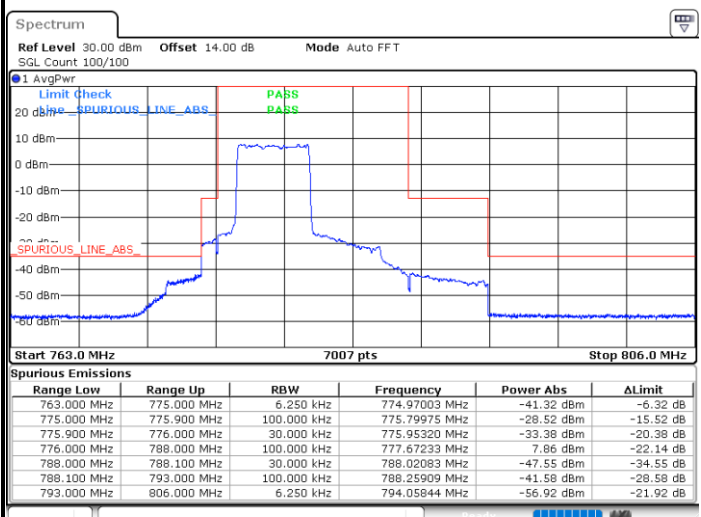


Date: 9.APR.2024 09:59:09

Date: 9.APR.2024 10:07:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.APR.2024 10:01:55

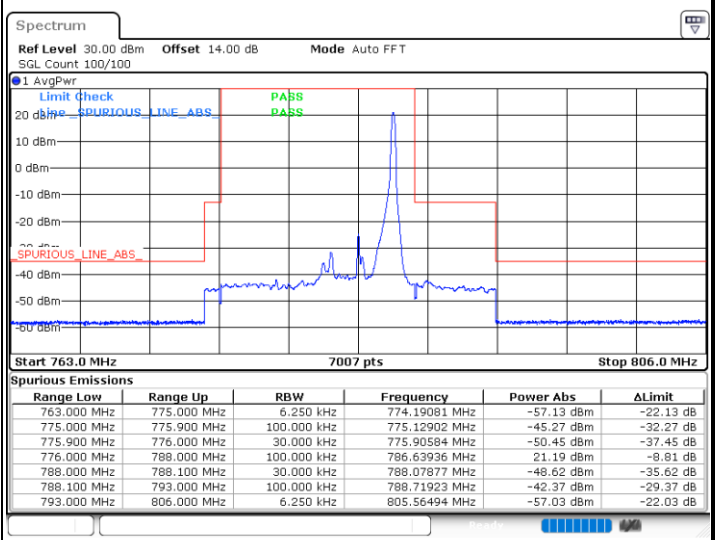
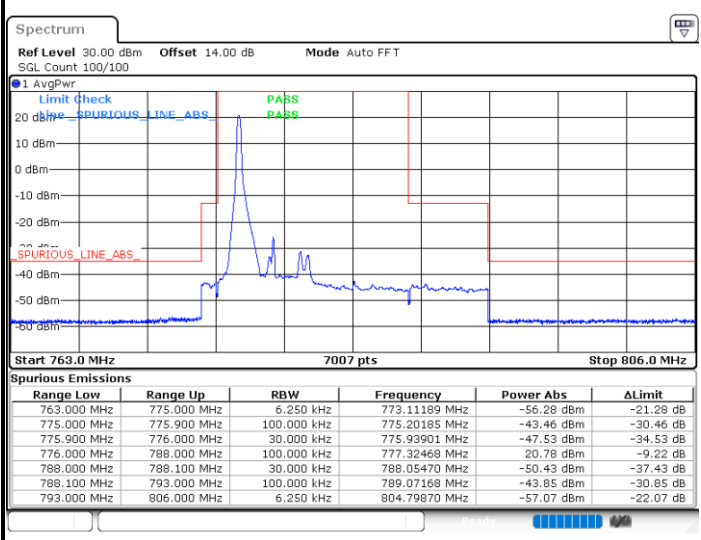
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LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

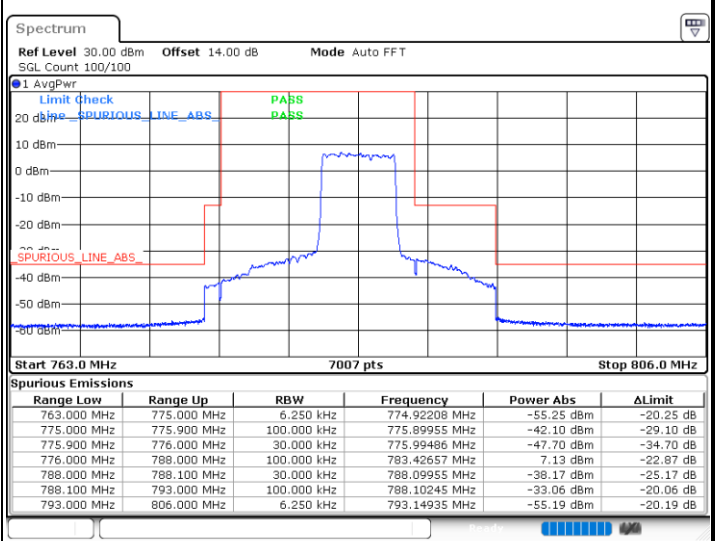
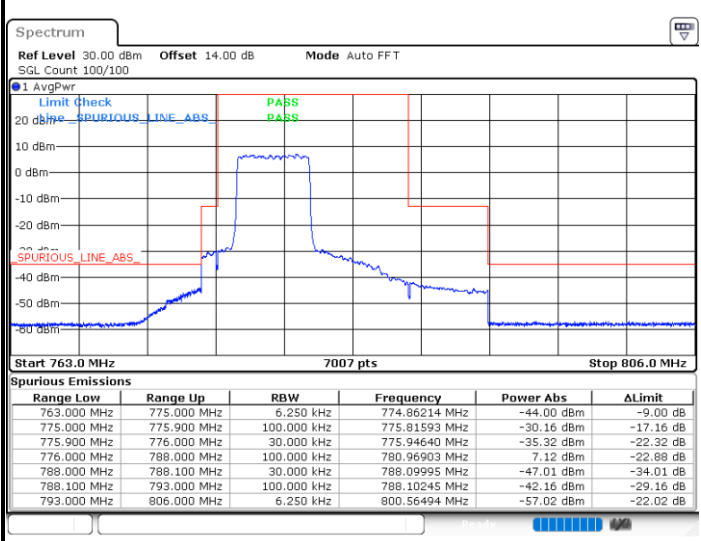


Date: 9.APR.2024 10:00:04

Date: 9.APR.2024 10:08:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



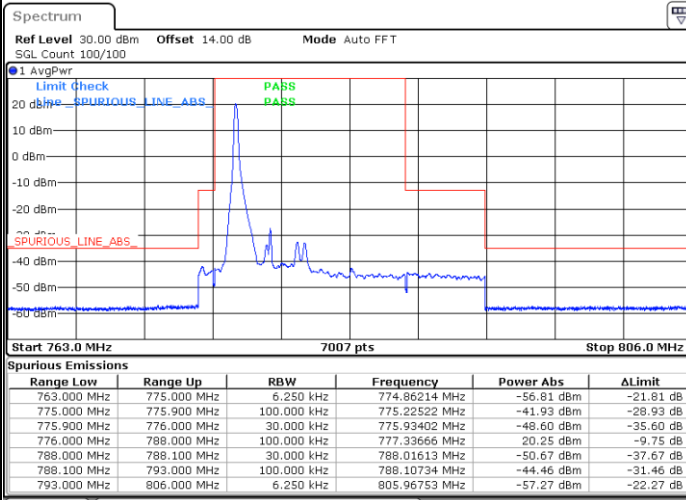
Date: 9.APR.2024 10:02:51

Date: 9.APR.2024 10:11:33



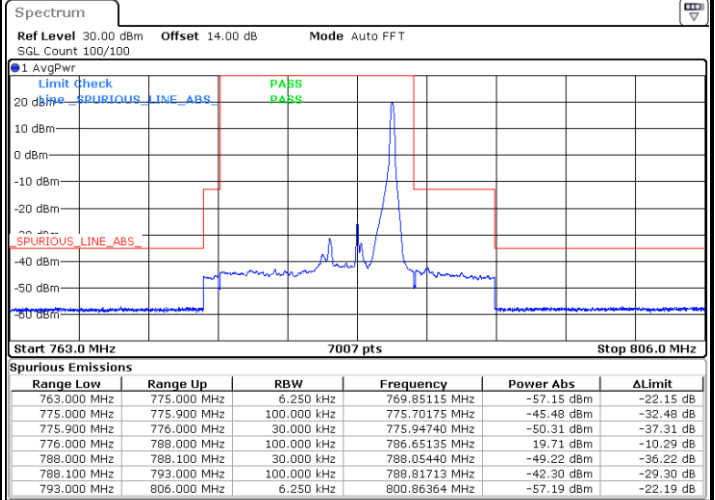
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



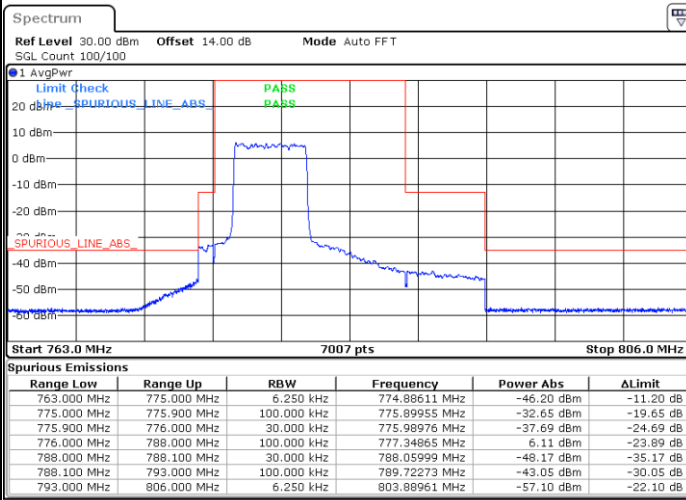
Date: 9.APR.2024 10:01:00

Highest Band Edge / 1 RB



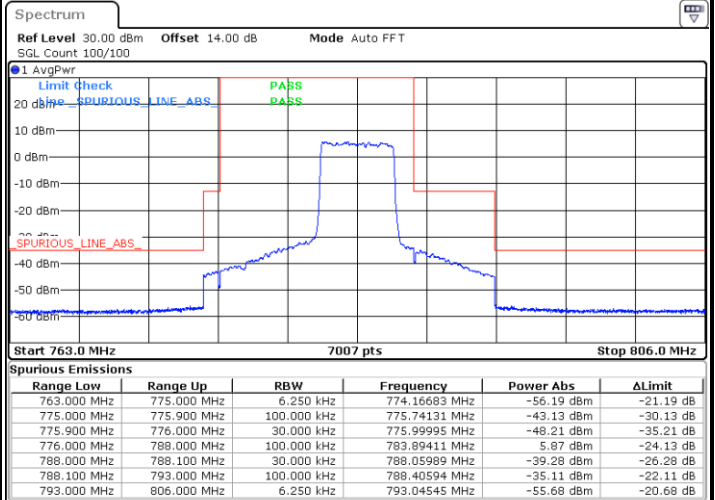
Date: 9.APR.2024 10:09:41

Lowest Band Edge / Full RB



Date: 9.APR.2024 10:03:47

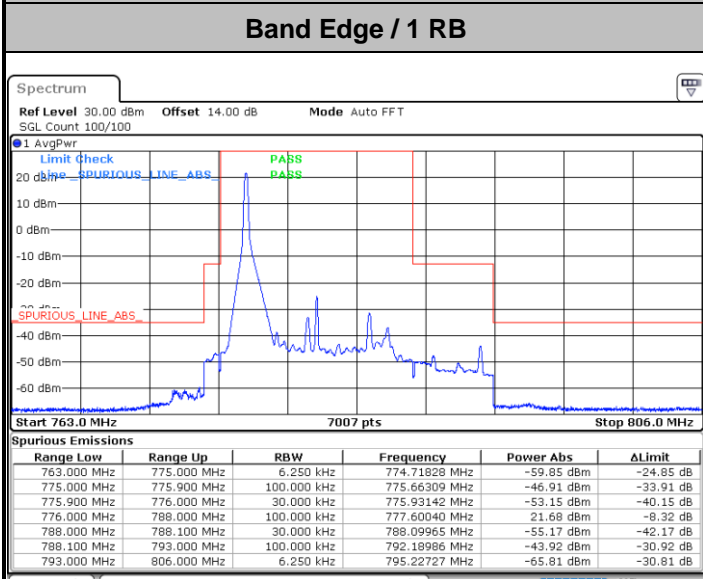
Highest Band Edge / Full RB



Date: 9.APR.2024 10:12:28

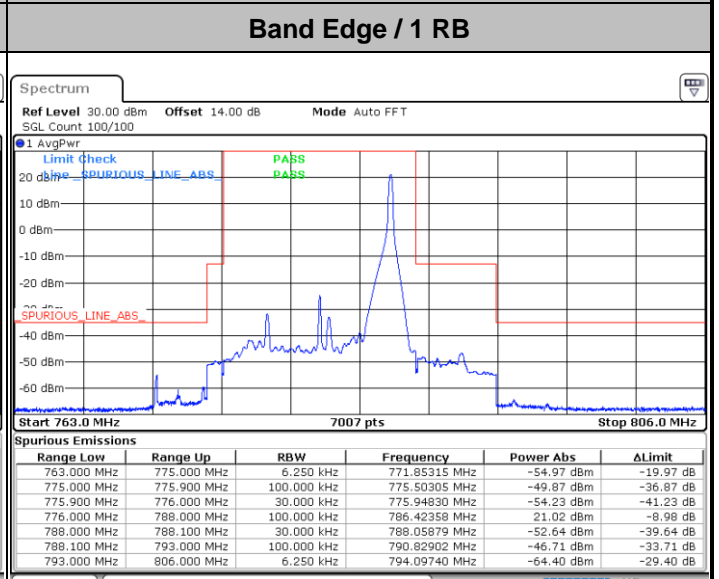


LTE Band 13 / 10MHz / QPSK
Band Edge / 1 RB



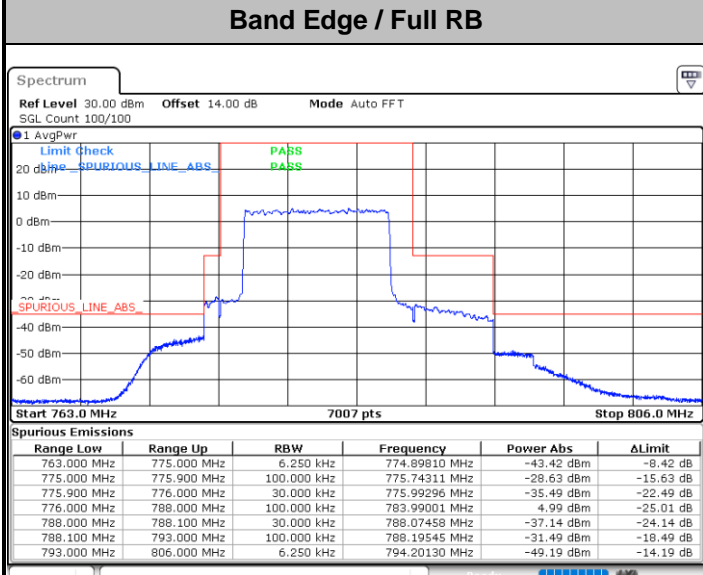
Date: 9.APR.2024 10:15:02

LTE Band 13 / 10MHz / QPSK
Band Edge / 1 RB



Date: 9.APR.2024 10:17:47

LTE Band 13 / 10MHz / QPSK
Band Edge / Full RB



Date: 9.APR.2024 10:20:32

NA

