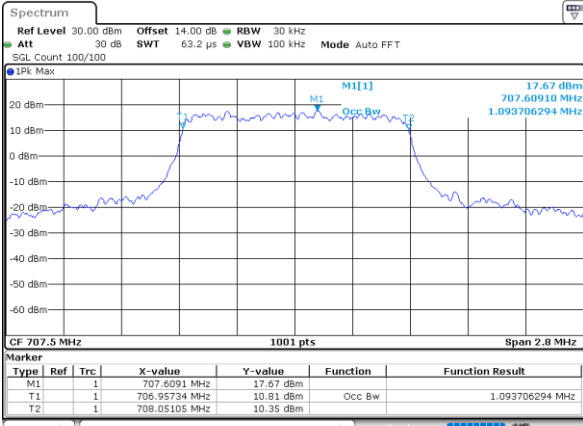




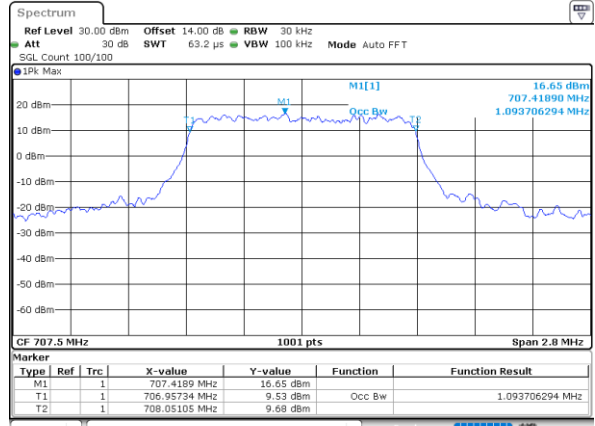
LTE Band 12

Middle Channel / 1.4MHz / QPSK



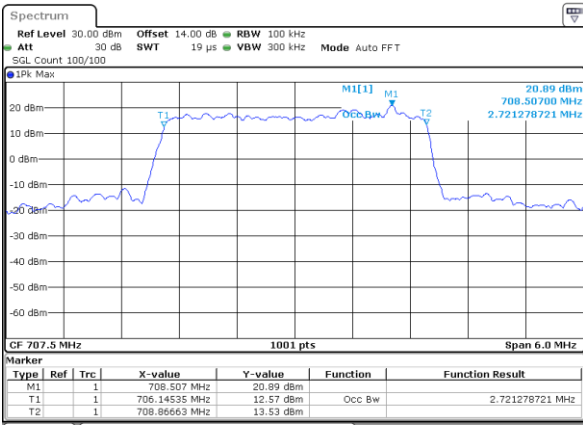
Date: 19_MAR_2024 21:14:12

Middle Channel / 1.4MHz / 16QAM



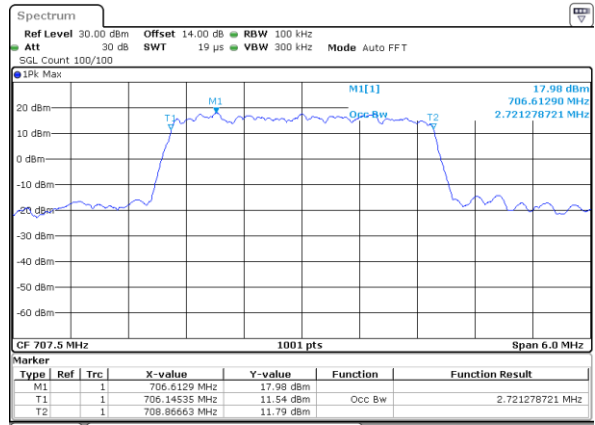
Date: 19_MAR_2024 21:14:52

Middle Channel / 3MHz / QPSK



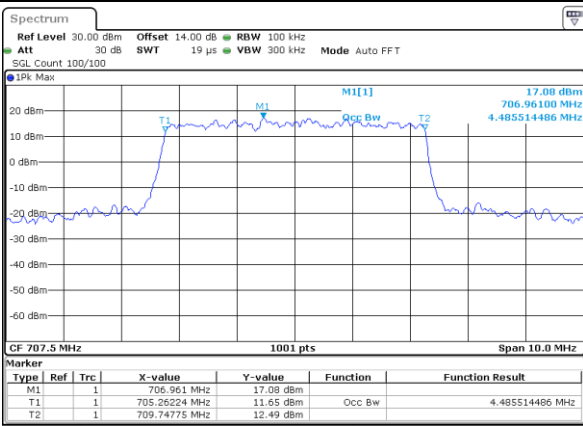
Date: 19_MAR_2024 21:32:46

Middle Channel / 3MHz / 16QAM



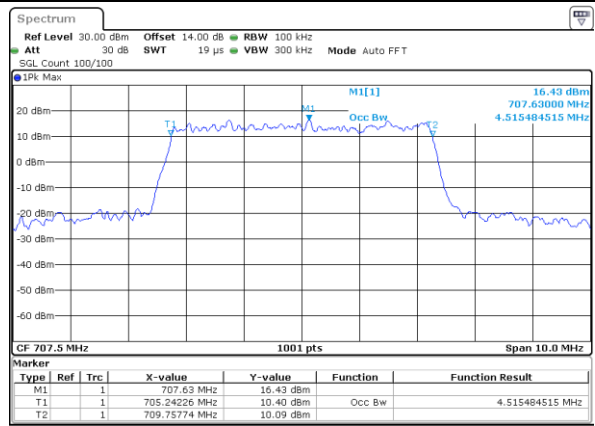
Date: 19_MAR_2024 21:33:26

Middle Channel / 5MHz / QPSK



Date: 19_MAR_2024 21:51:16

Middle Channel / 5MHz / 16QAM

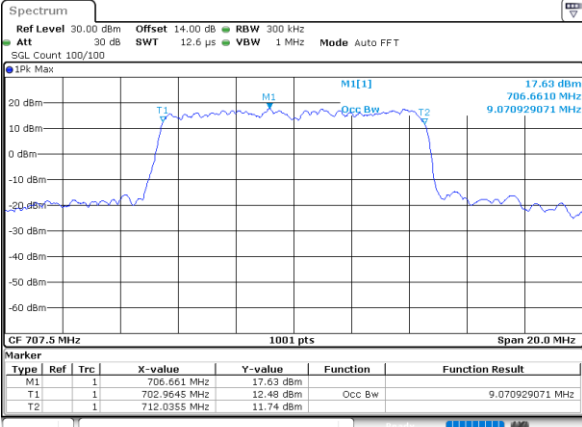


Date: 19_MAR_2024 21:51:56



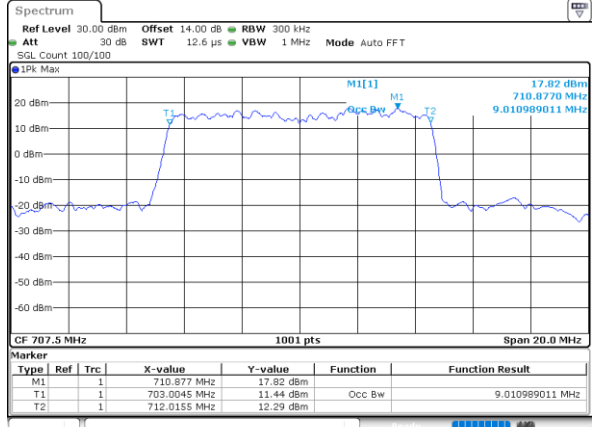
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 19_MAR_2024 22:38:11

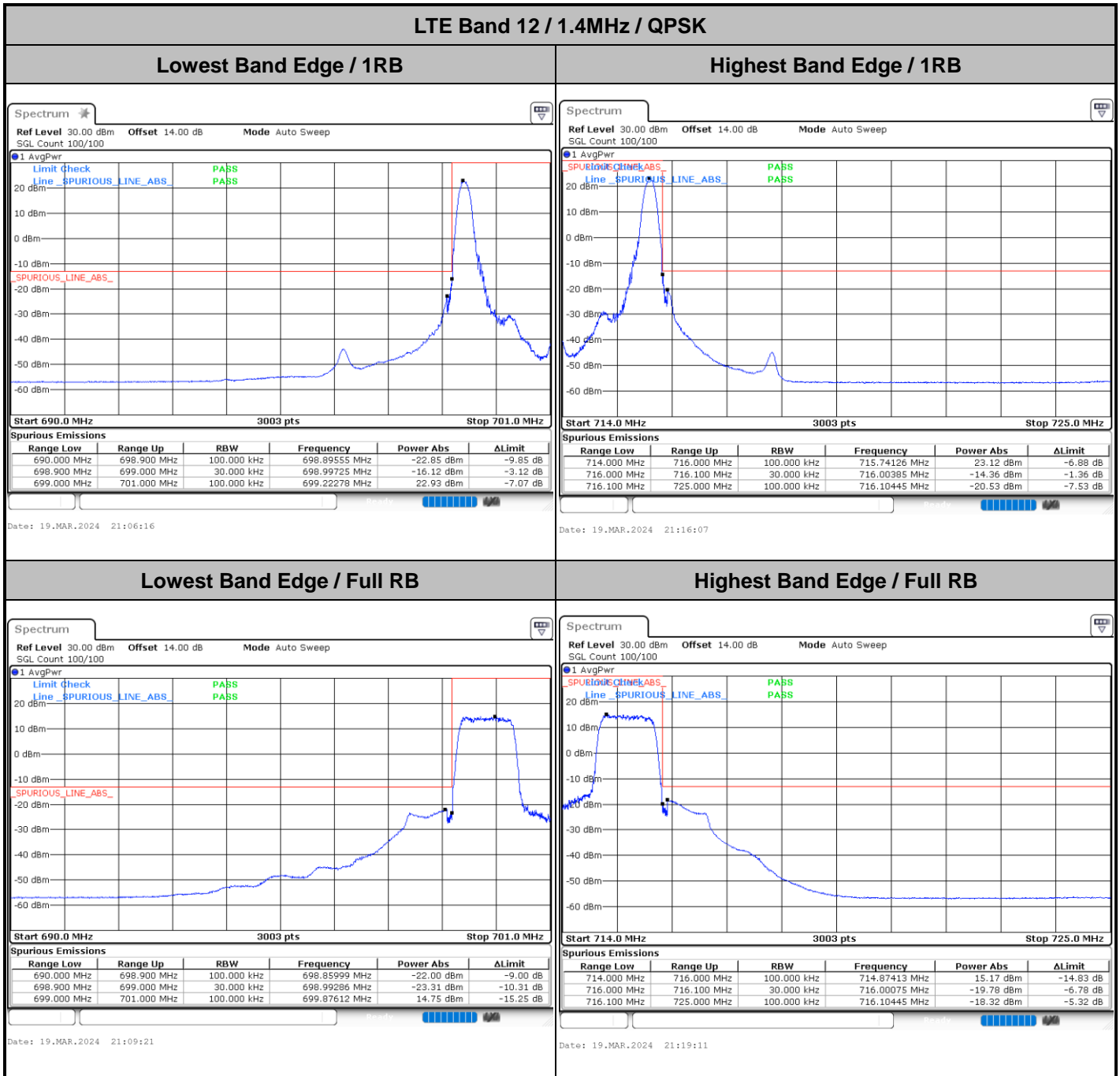
Middle Channel / 10MHz / 16QAM



Date: 19_MAR_2024 22:38:59



Conducted Band Edge





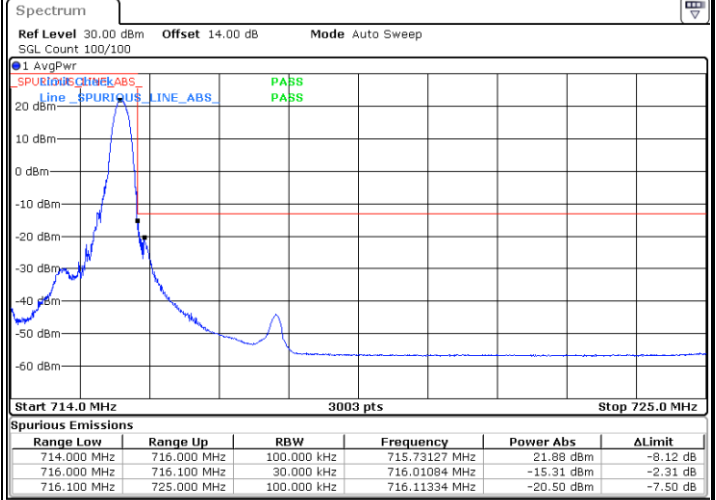
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



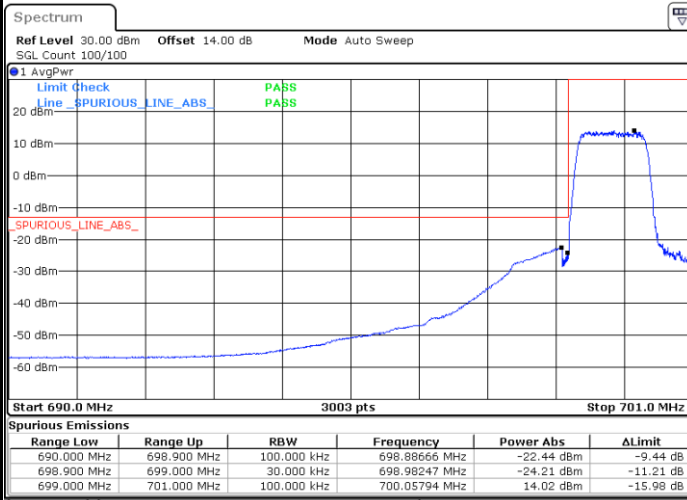
Date: 19.MAR.2024 21:07:18

Highest Band Edge / 1 RB



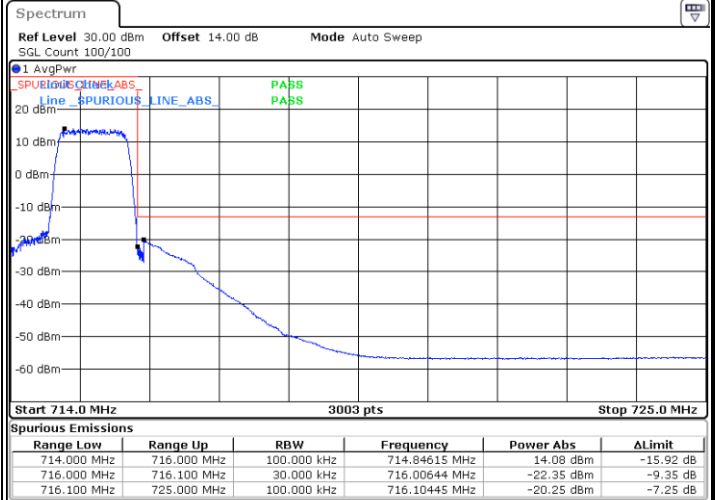
Date: 19.MAR.2024 21:17:08

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:10:23

Highest Band Edge / Full RB

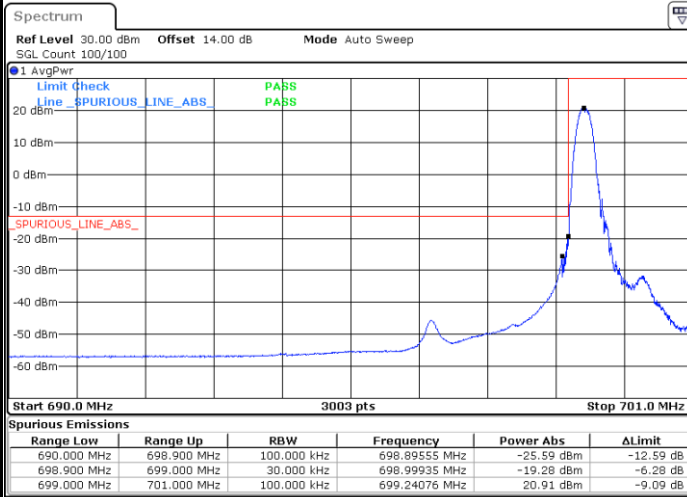


Date: 19.MAR.2024 21:20:13



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



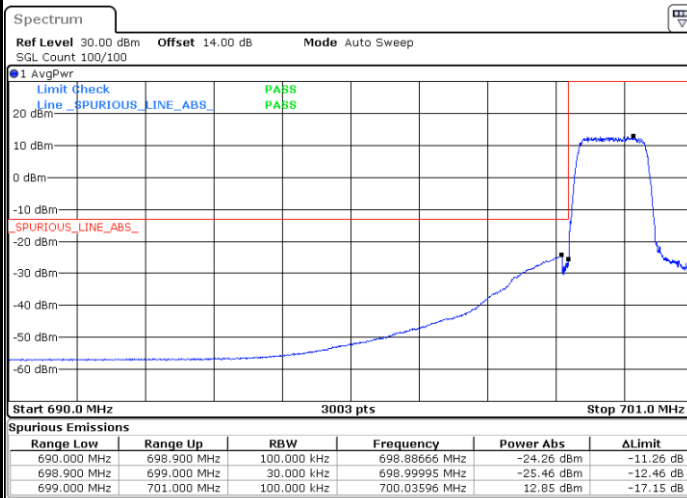
Date: 19.MAR.2024 21:08:19

Highest Band Edge / 1 RB



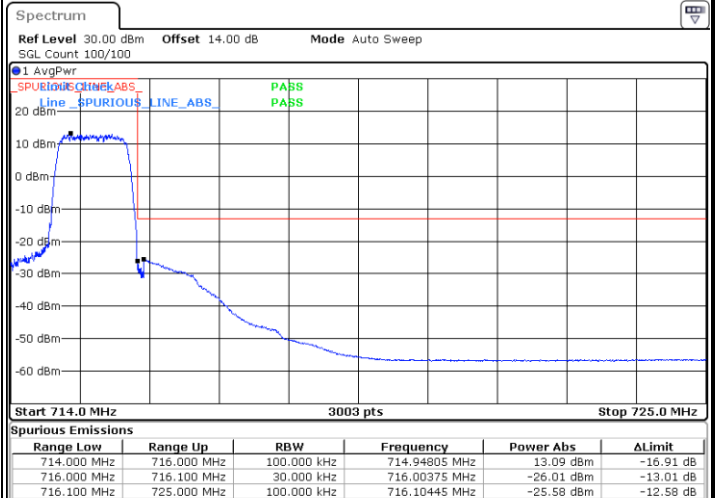
Date: 19.MAR.2024 21:18:10

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:11:24

Highest Band Edge / Full RB

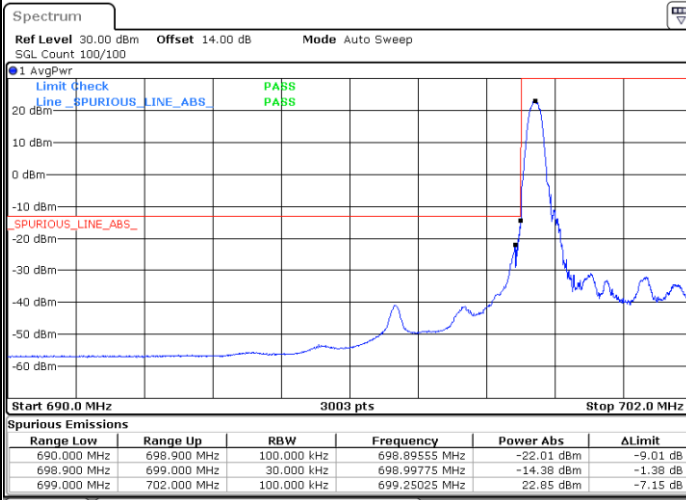


Date: 19.MAR.2024 21:21:14



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



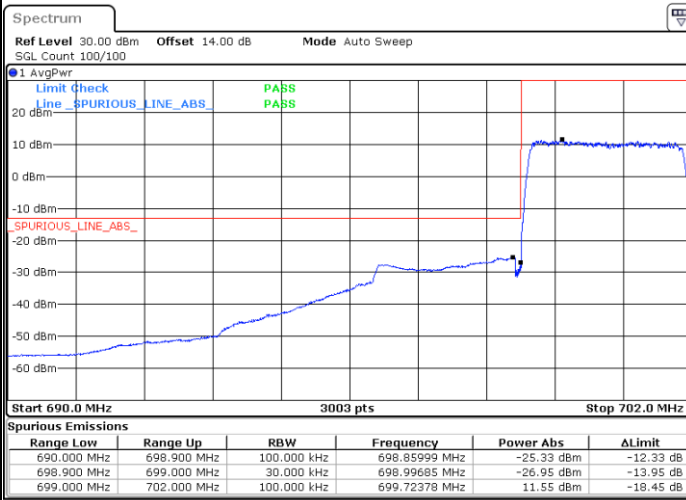
Date: 19.MAR.2024 21:24:49

Highest Band Edge / 1RB



Date: 19.MAR.2024 21:34:41

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:27:54

Highest Band Edge / Full RB

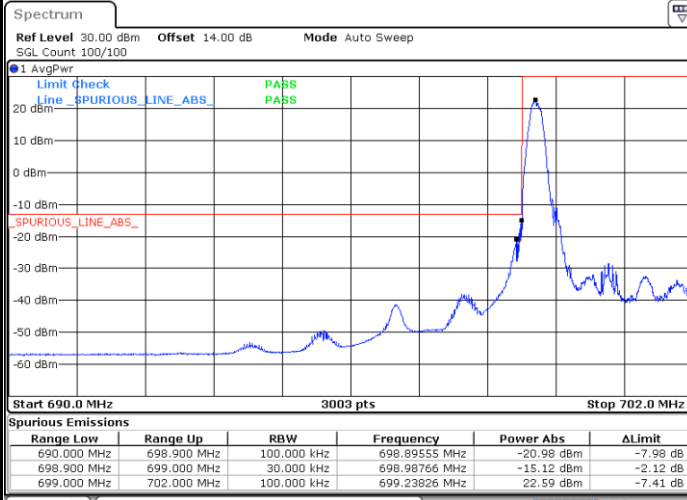


Date: 19.MAR.2024 21:37:45



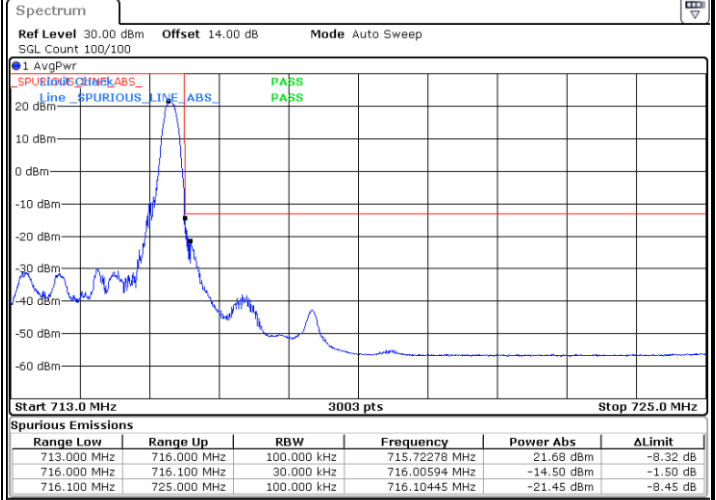
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



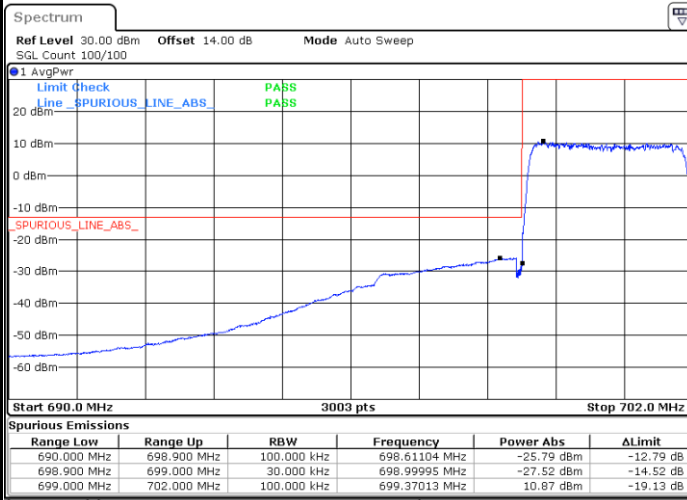
Date: 19.MAR.2024 21:25:51

Highest Band Edge / 1 RB



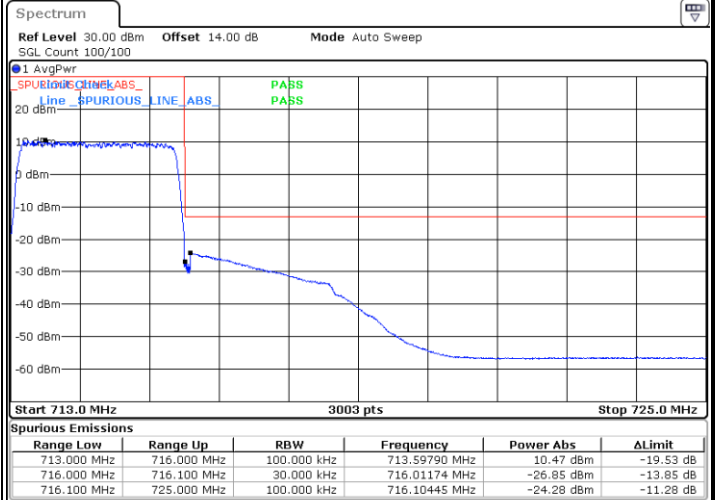
Date: 19.MAR.2024 21:35:42

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:28:56

Highest Band Edge / Full RB

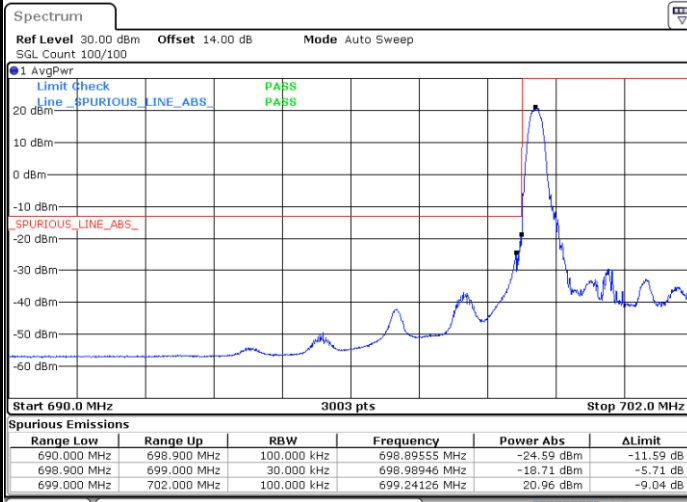


Date: 19.MAR.2024 21:38:47



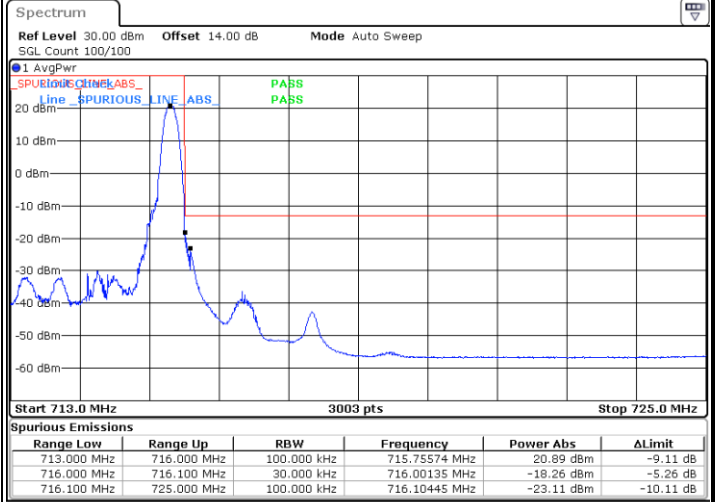
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



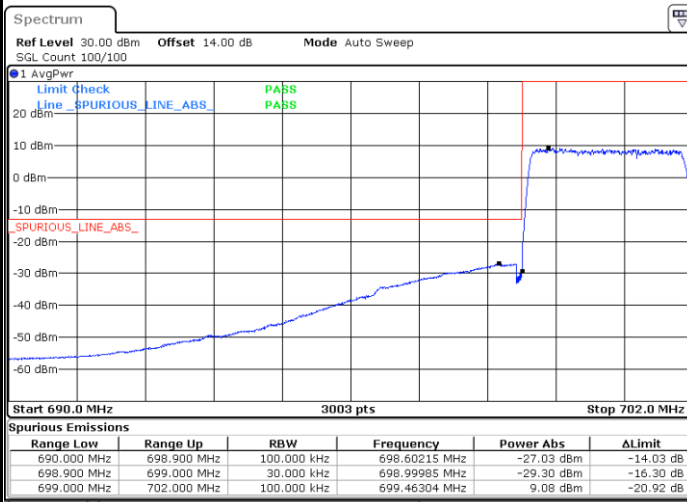
Date: 19.MAR.2024 21:26:52

Highest Band Edge / 1 RB



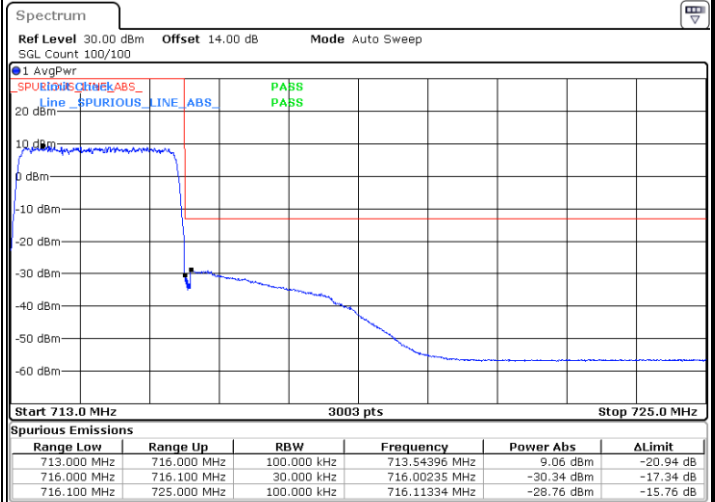
Date: 19.MAR.2024 21:36:44

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:29:57

Highest Band Edge / Full RB

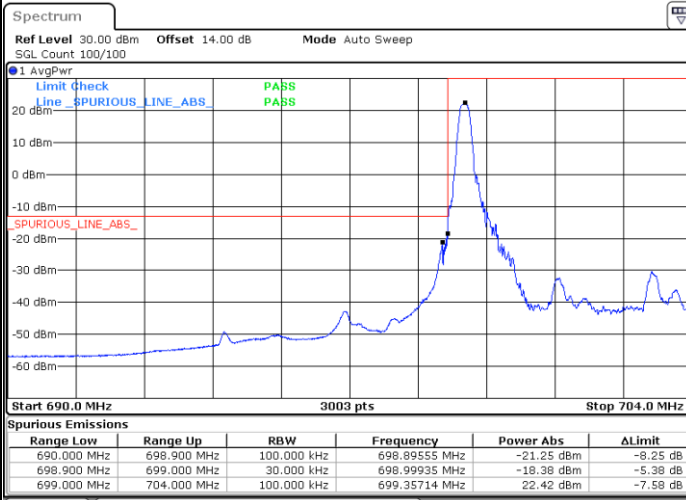


Date: 19.MAR.2024 21:39:49



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



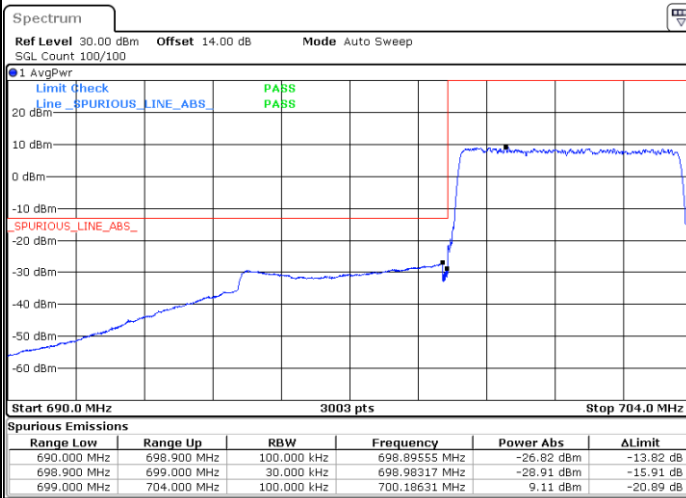
Date: 19.MAR.2024 21:43:23

Highest Band Edge / 1RB



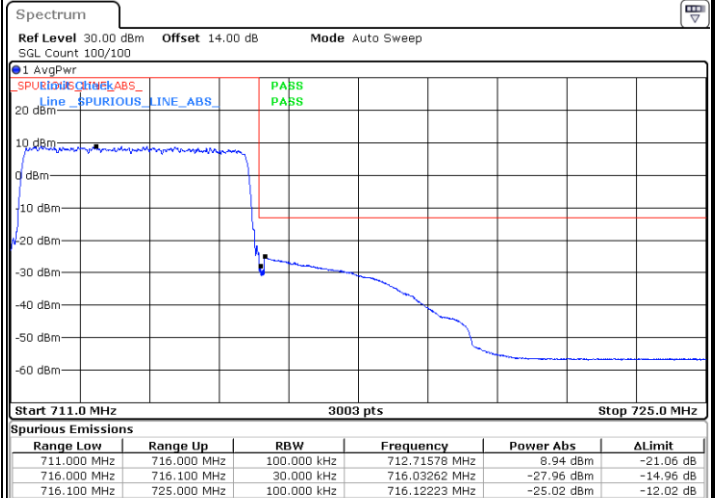
Date: 19.MAR.2024 21:53:10

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:46:28

Highest Band Edge / Full RB

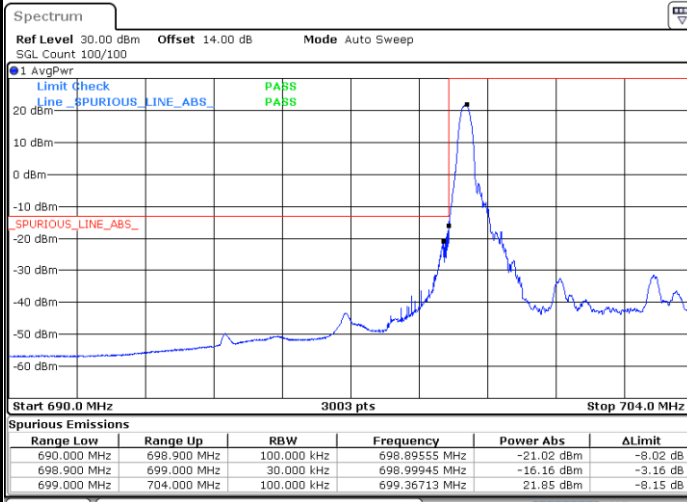


Date: 19.MAR.2024 21:56:12



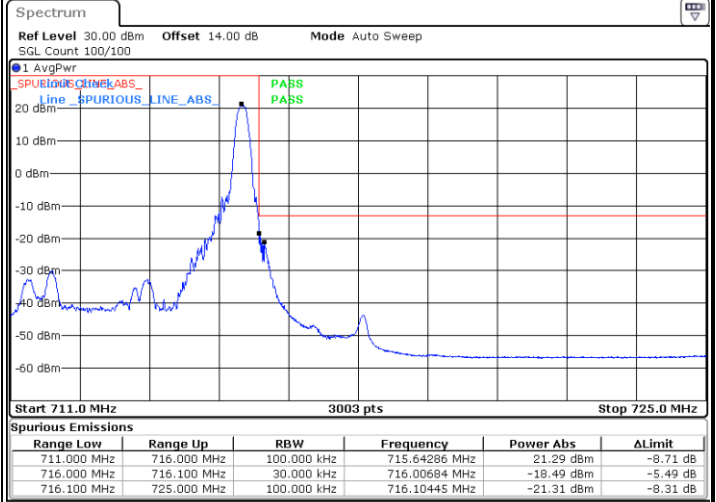
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



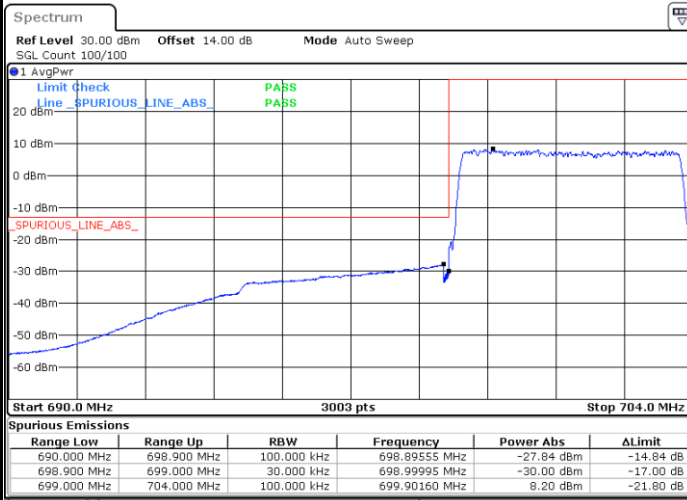
Date: 19.MAR.2024 21:44:25

Highest Band Edge / 1 RB



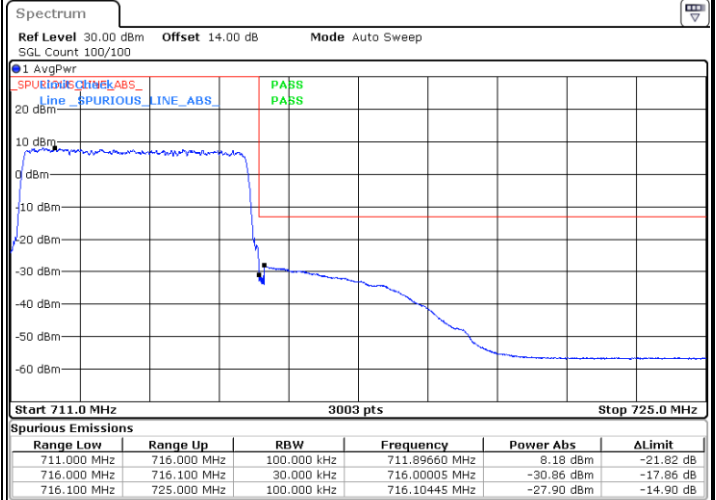
Date: 19.MAR.2024 21:54:11

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:47:29

Highest Band Edge / Full RB

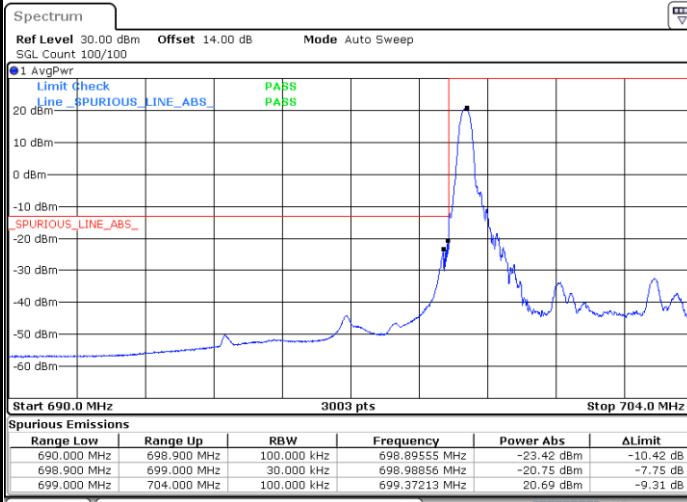


Date: 19.MAR.2024 21:57:13



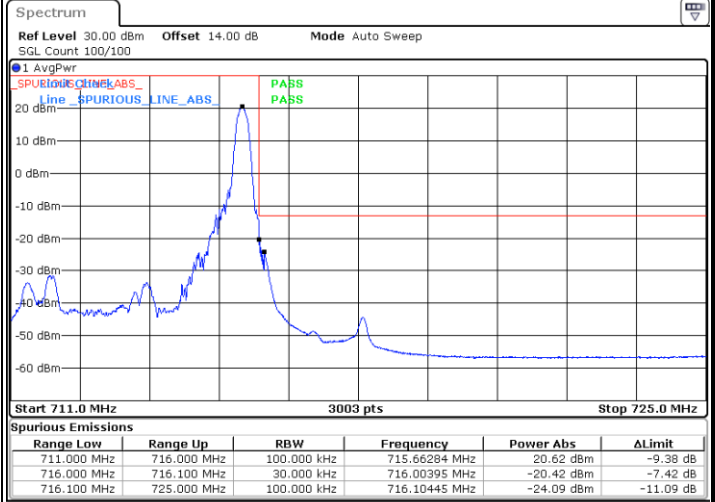
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



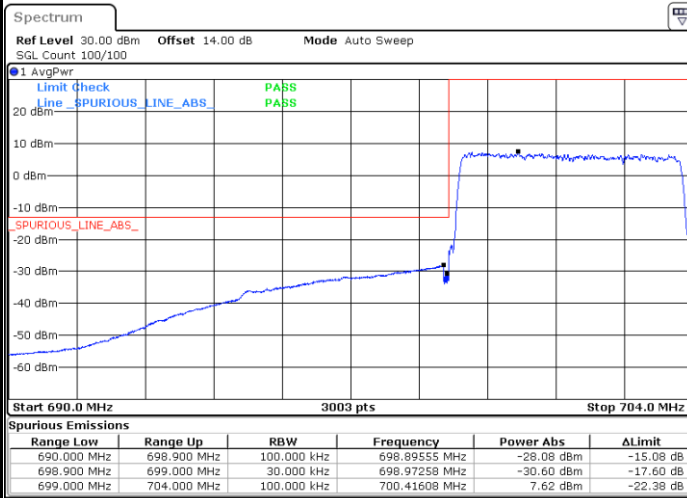
Date: 19.MAR.2024 21:45:26

Highest Band Edge / 1 RB



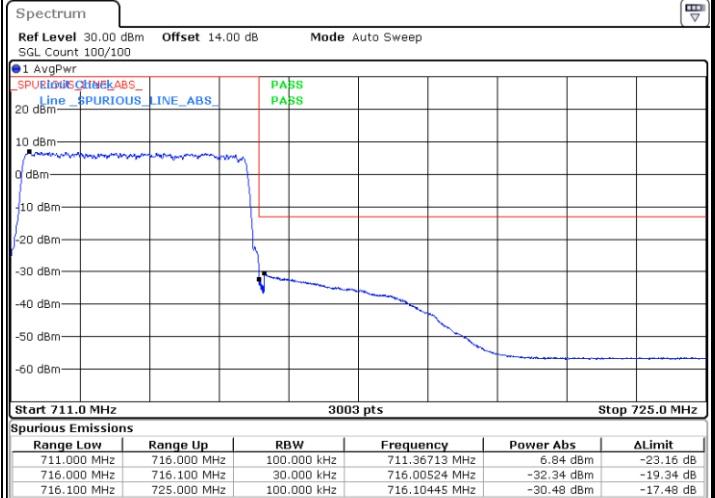
Date: 19.MAR.2024 21:55:11

Lowest Band Edge / Full RB



Date: 19.MAR.2024 21:48:31

Highest Band Edge / Full RB

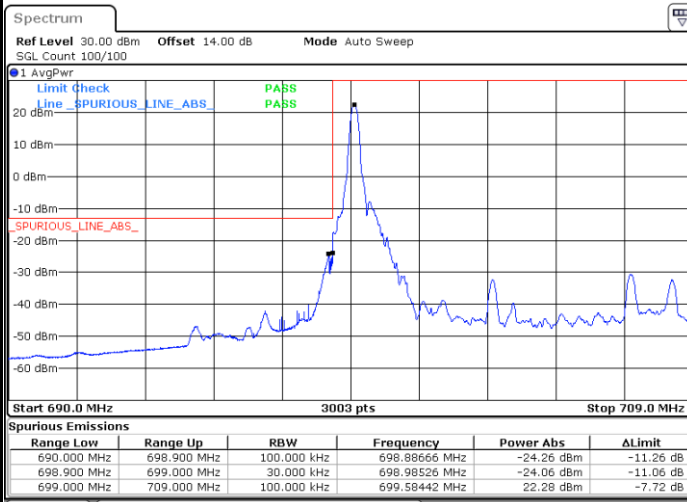


Date: 19.MAR.2024 21:58:13



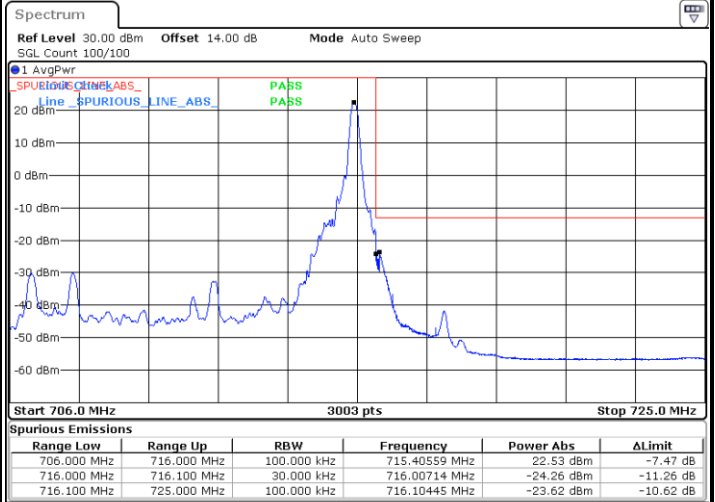
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



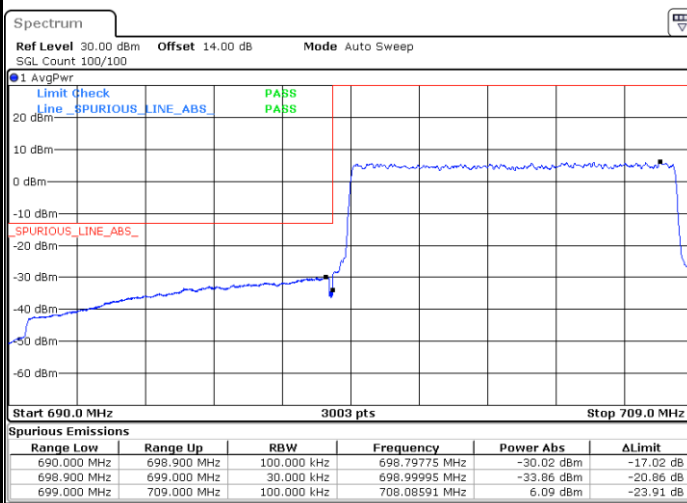
Date: 19.MAR.2024 22:30:03

Highest Band Edge / 1RB



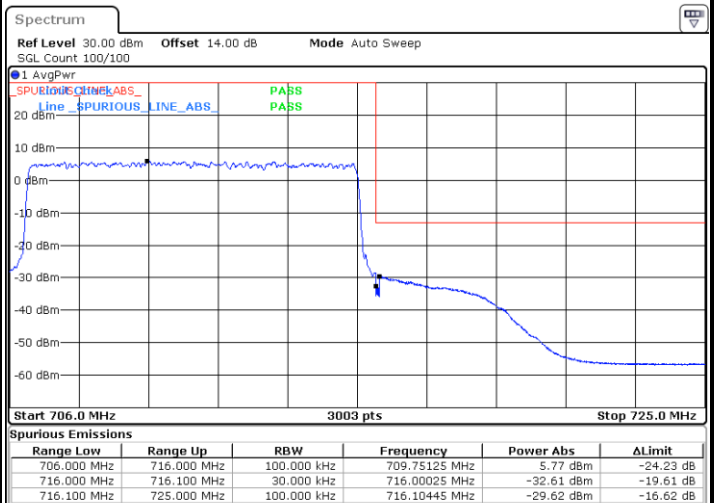
Date: 19.MAR.2024 22:40:15

Lowest Band Edge / Full RB



Date: 19.MAR.2024 22:33:12

Highest Band Edge / Full RB

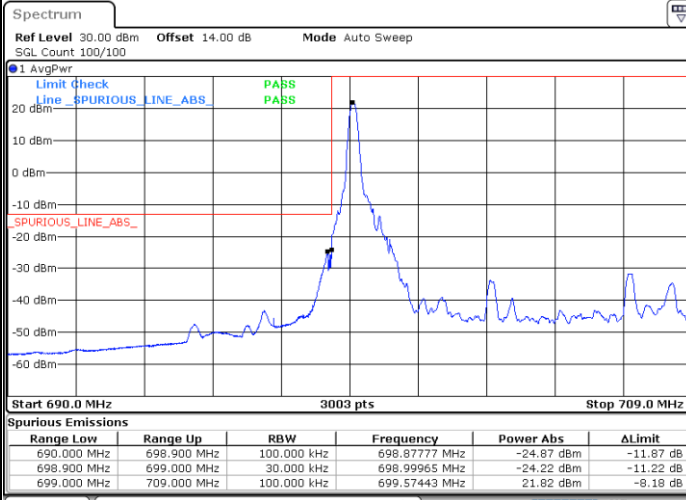


Date: 19.MAR.2024 22:43:25



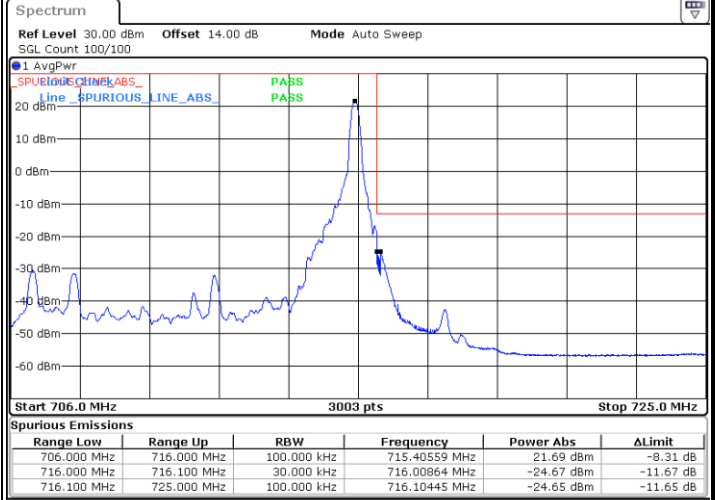
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



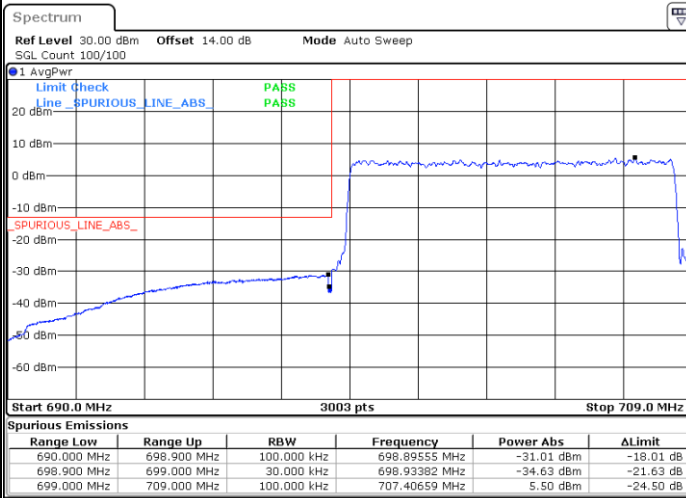
Date: 19.MAR.2024 22:31:06

Highest Band Edge / 1 RB



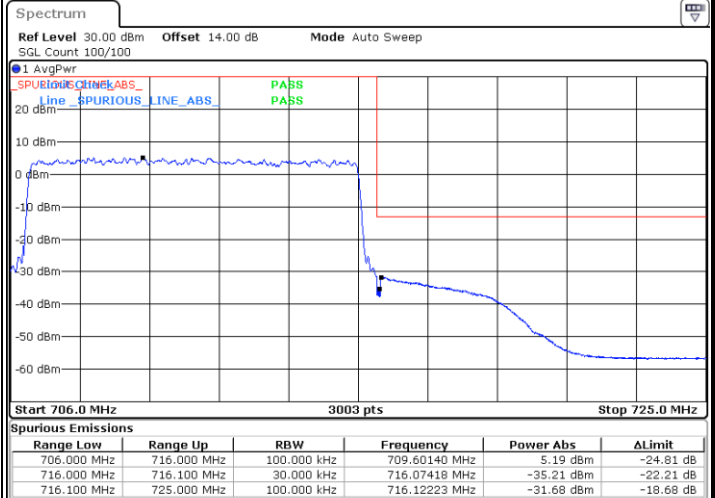
Date: 19.MAR.2024 22:41:17

Lowest Band Edge / Full RB



Date: 19.MAR.2024 22:34:16

Highest Band Edge / Full RB

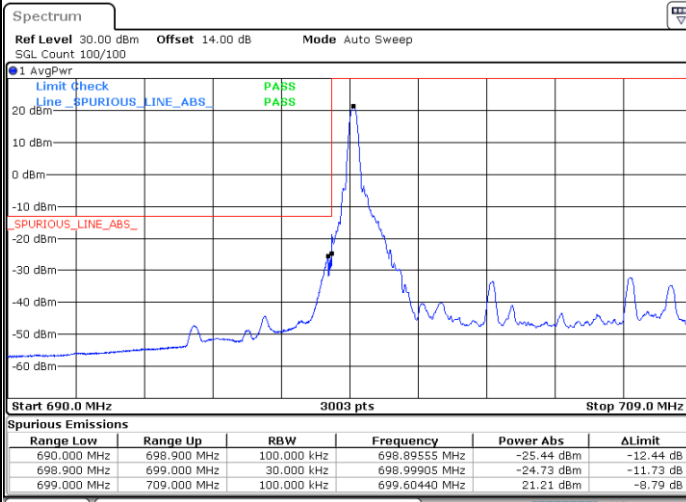


Date: 19.MAR.2024 22:44:26



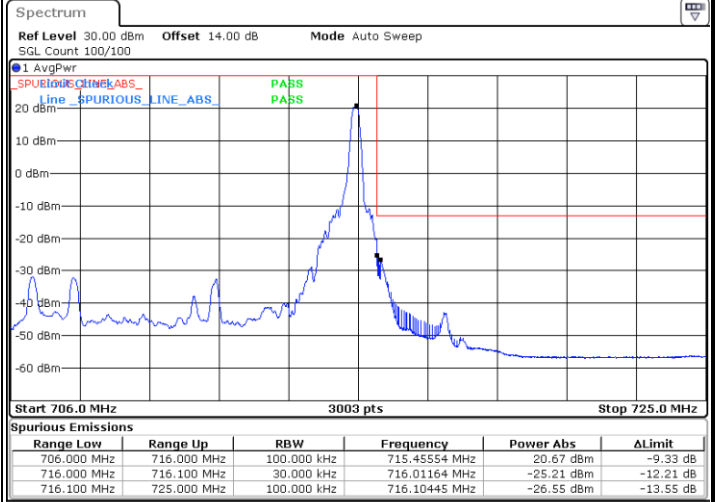
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



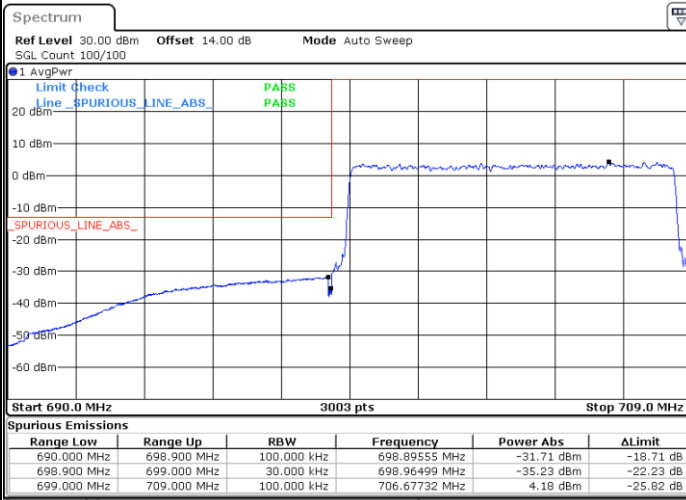
Date: 19.MAR.2024 22:32:11

Highest Band Edge / 1 RB



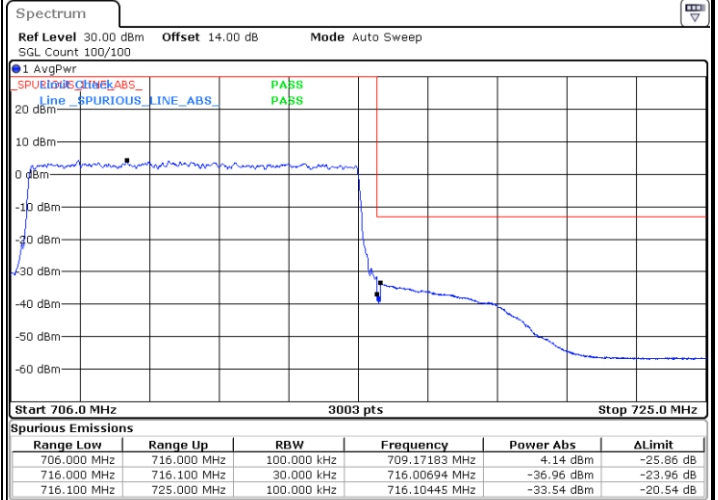
Date: 19.MAR.2024 22:42:20

Lowest Band Edge / Full RB



Date: 19.MAR.2024 22:35:21

Highest Band Edge / Full RB



Date: 19.MAR.2024 22:45:30



Conducted Spurious Emission

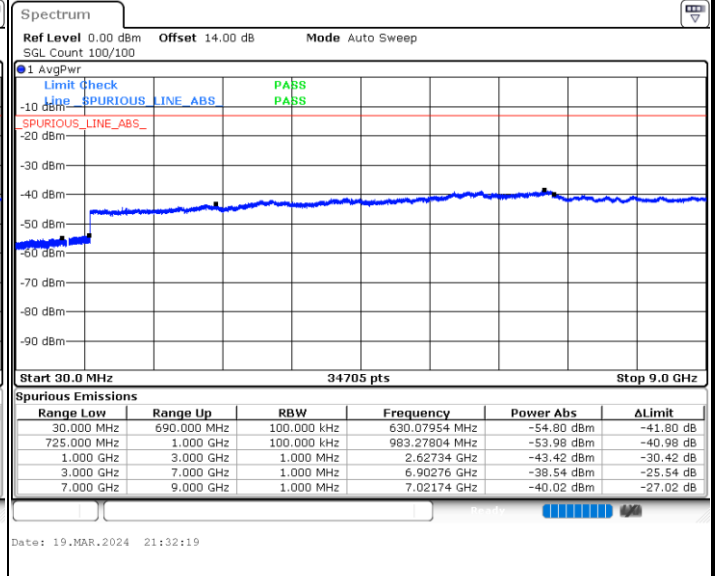
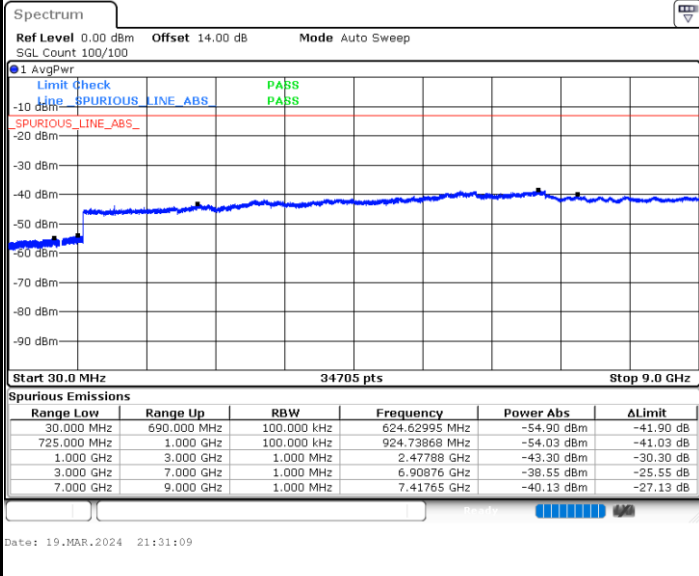




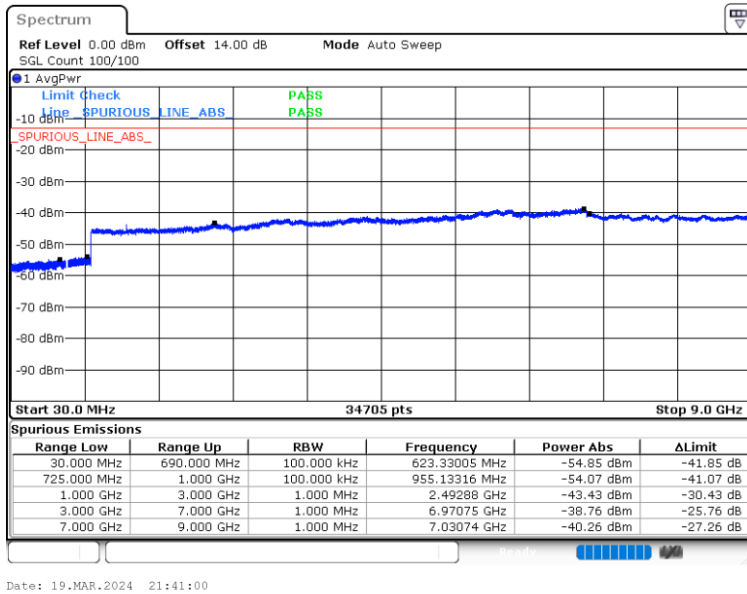
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

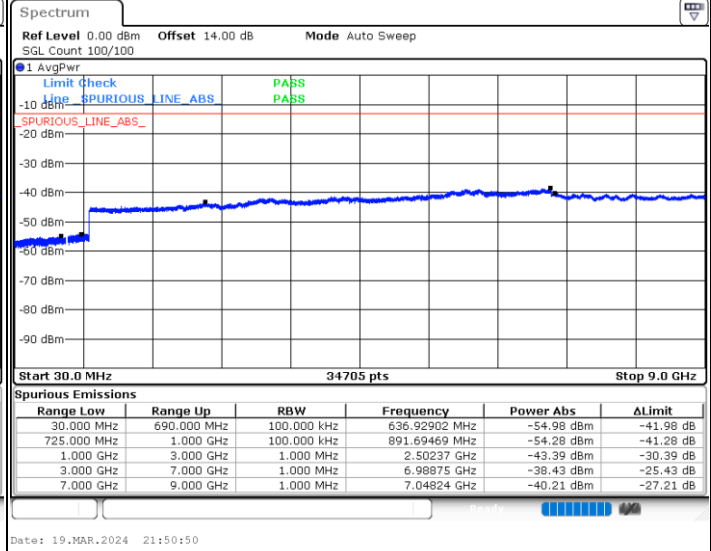
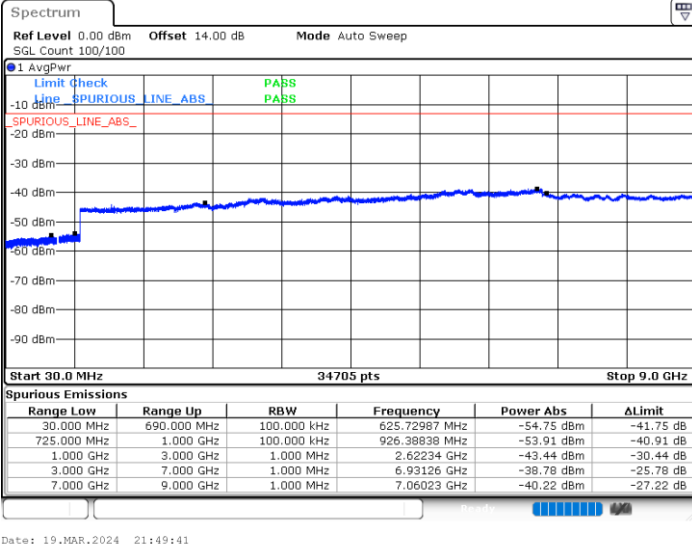




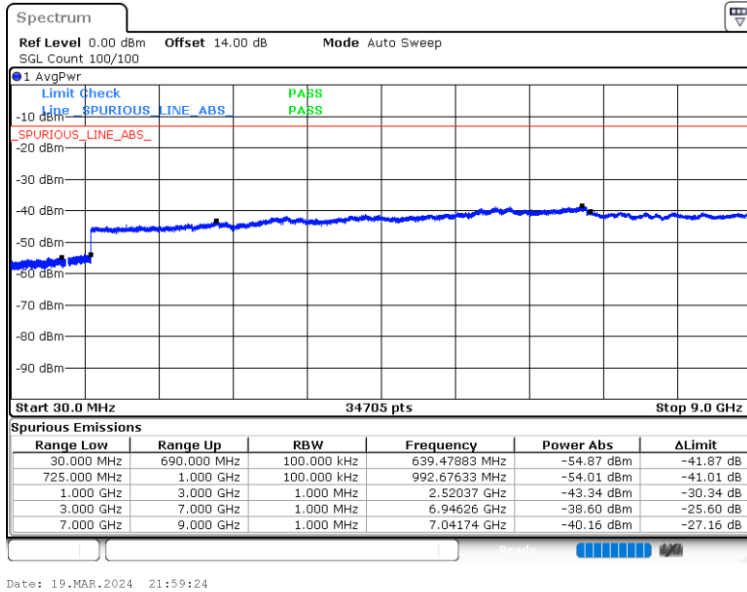
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

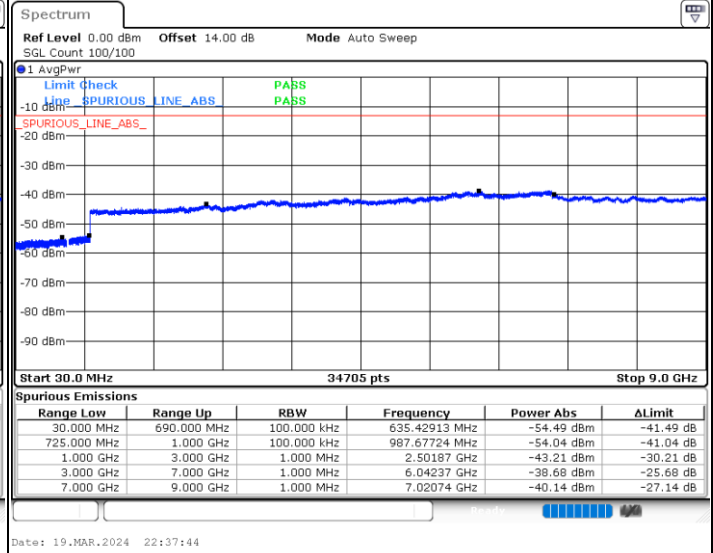
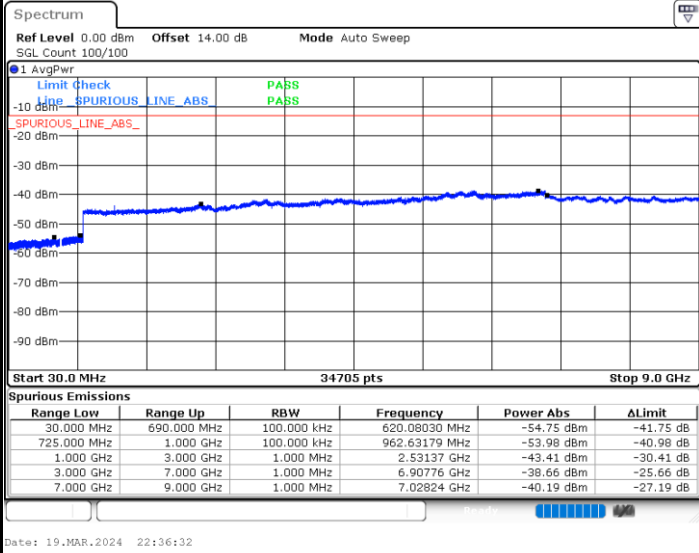




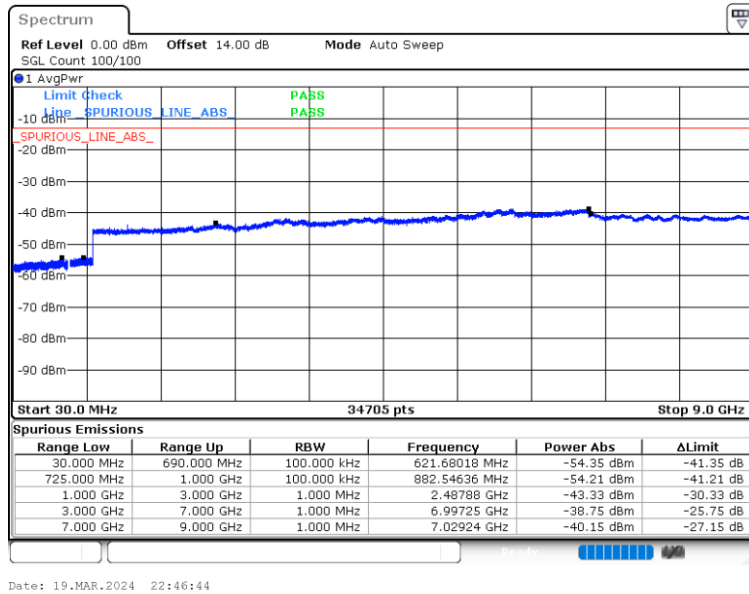
LTE Band 12 / 10MHz

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	0.0008	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

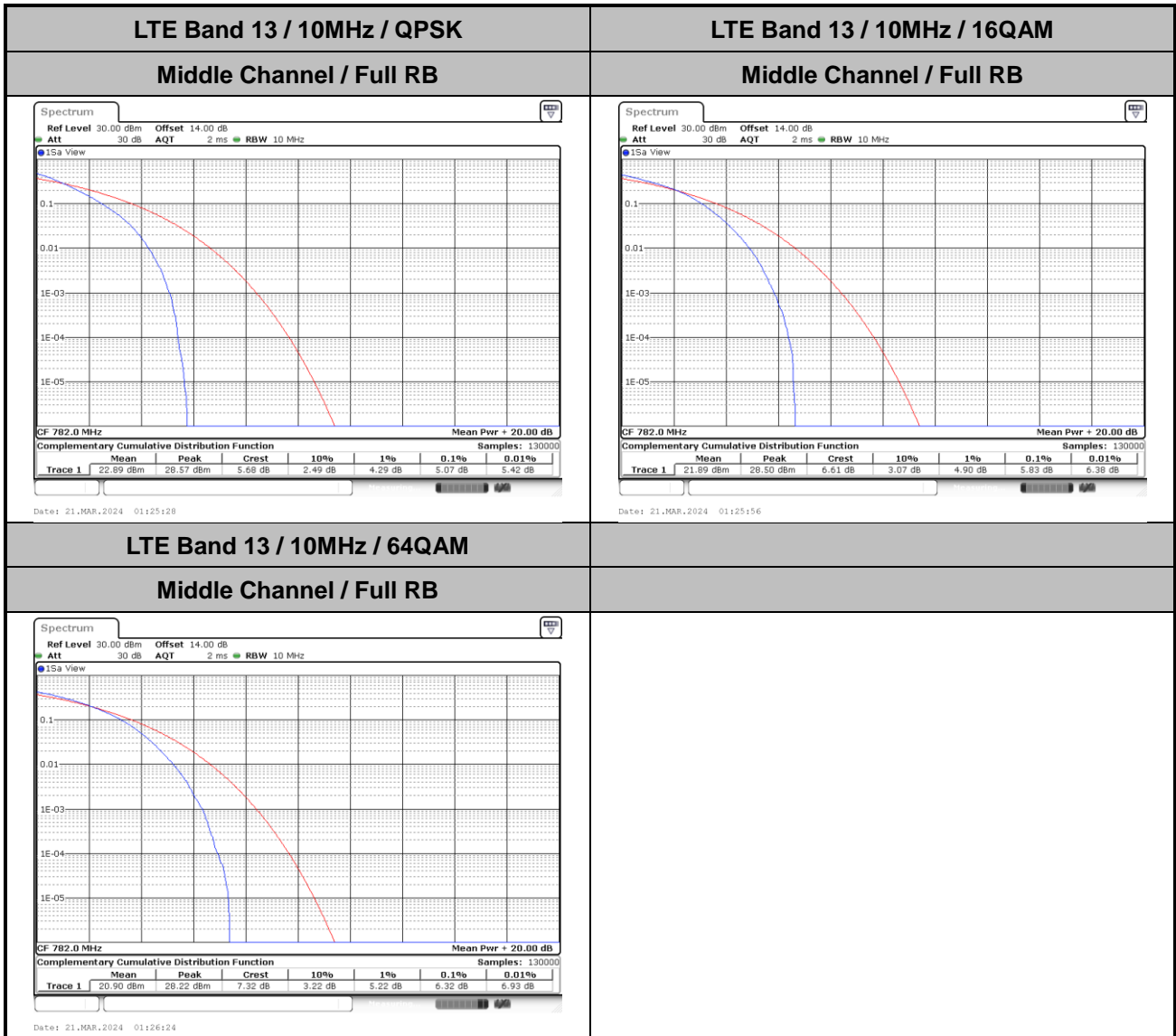
1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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	5.07	5.83	6.32	PASS





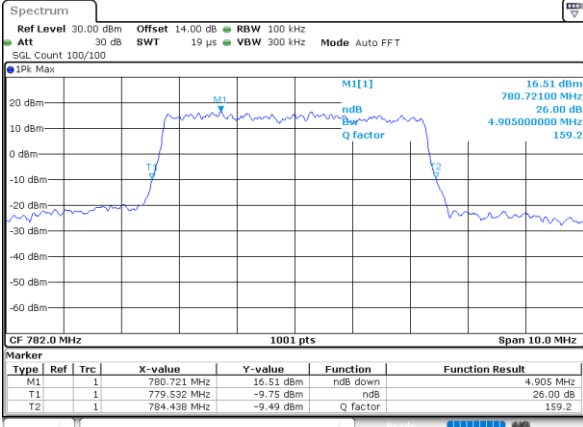
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)			
	5MHz		10MHz	
BW				
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.91	4.94	9.73	9.75



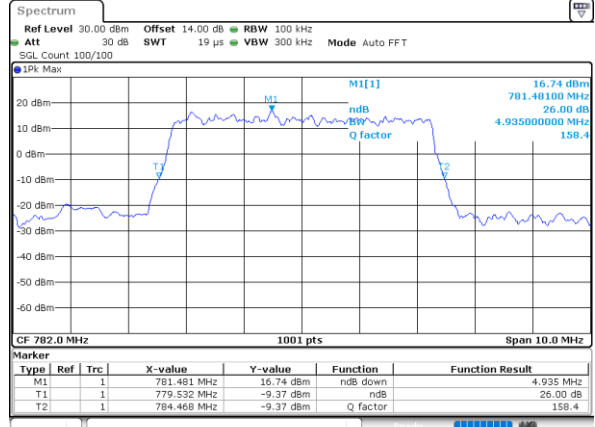
LTE Band 13

Middle Channel / 5MHz / QPSK



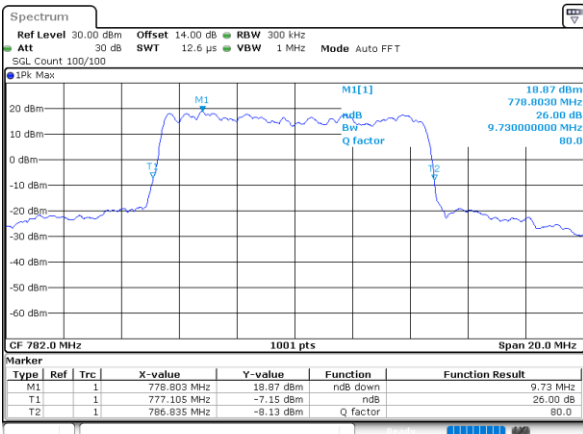
Date: 21.MAR.2024 01:04:30

Middle Channel / 5MHz / 16QAM



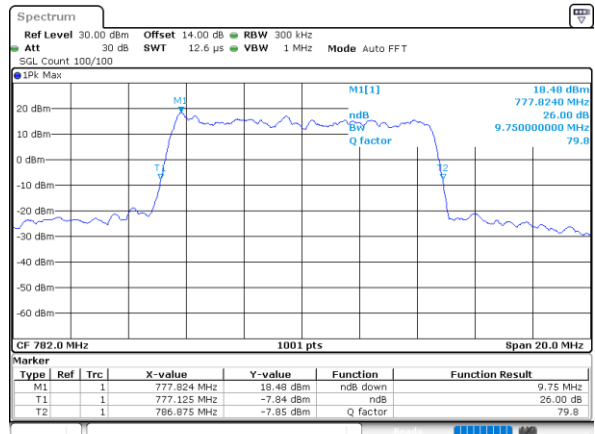
Date: 21.MAR.2024 01:05:10

Middle Channel / 10MHz / QPSK



Date: 21.MAR.2024 01:24:20

Middle Channel / 10MHz / 16QAM



Date: 21.MAR.2024 01:25:01



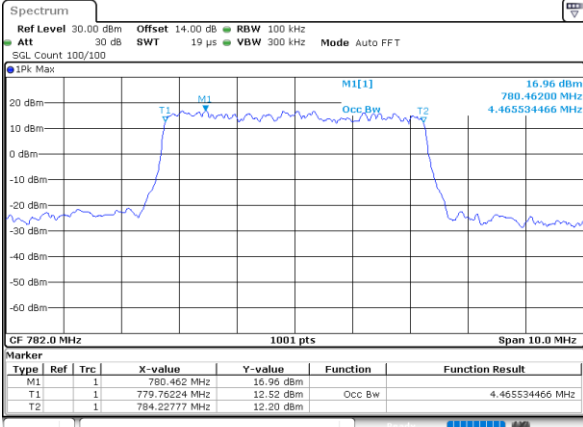
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)			
	5MHz		10MHz	
BW				
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.47	4.50	9.09	9.01



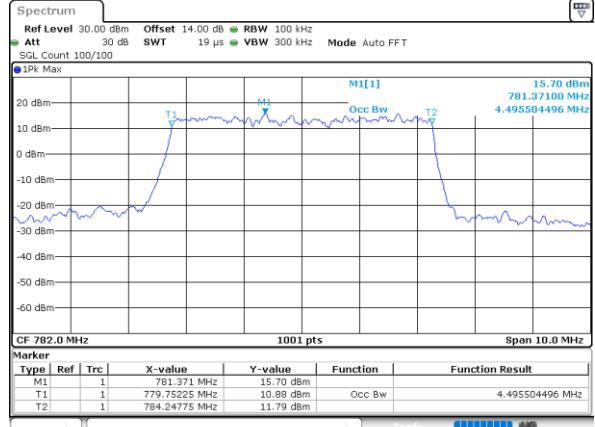
LTE Band 13

Middle Channel / 5MHz / QPSK



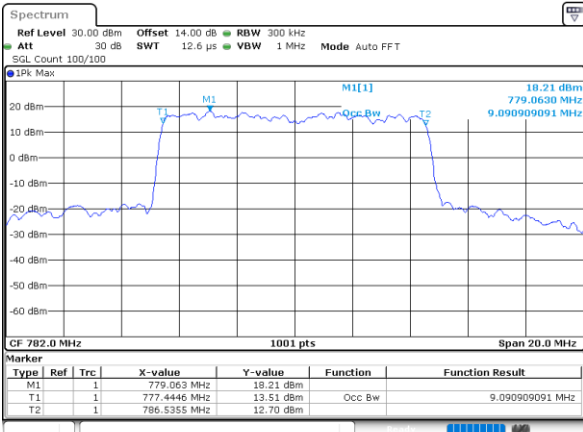
Date: 21.MAR.2024 01:04:16

Middle Channel / 5MHz / 16QAM



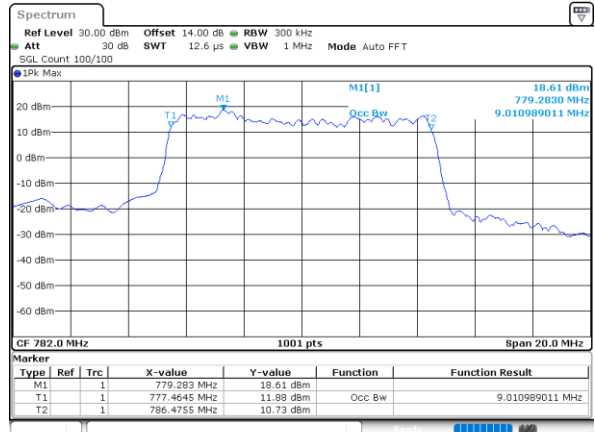
Date: 21.MAR.2024 01:04:56

Middle Channel / 10MHz / QPSK



Date: 21.MAR.2024 01:24:06

Middle Channel / 10MHz / 16QAM



Date: 21.MAR.2024 01:24:47

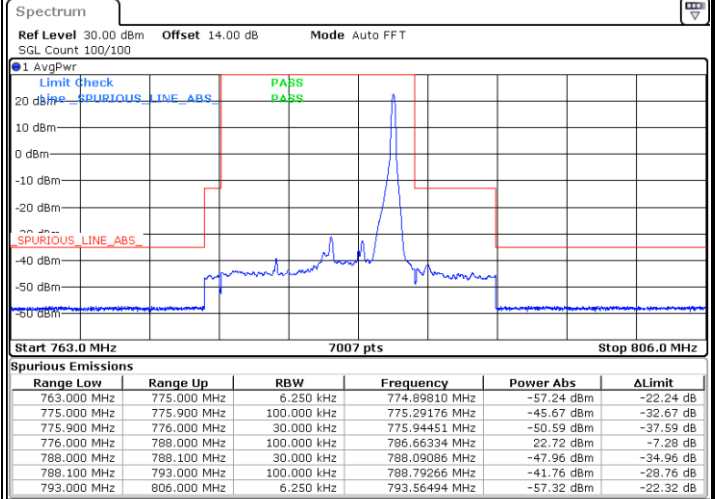
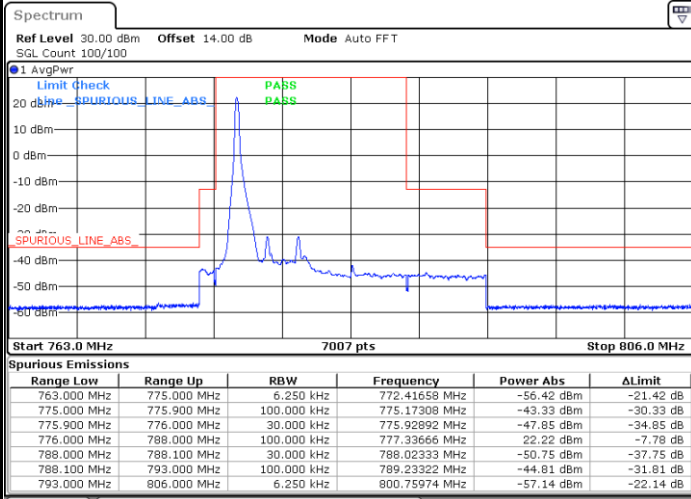


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

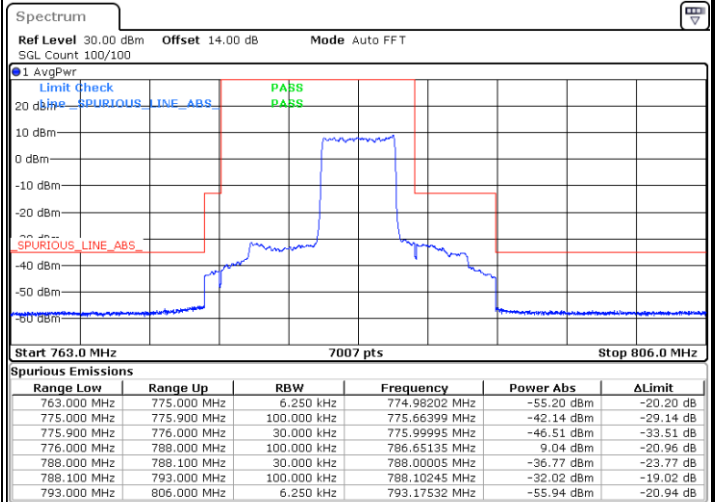
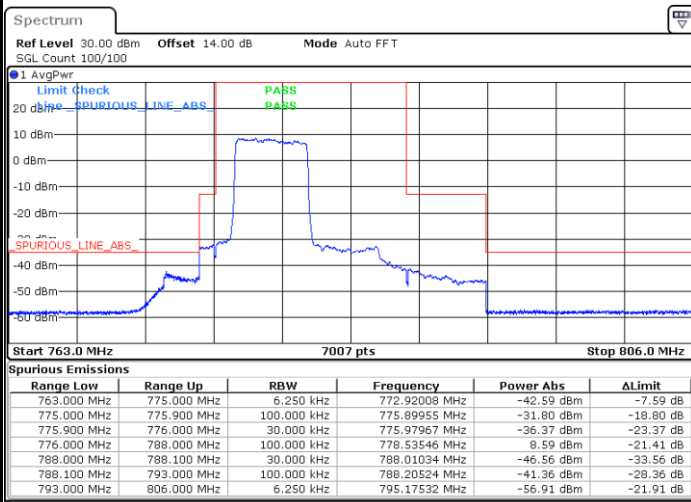


Date: 21.MAR.2024 00:56:20

Date: 21.MAR.2024 01:06:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.MAR.2024 00:59:24

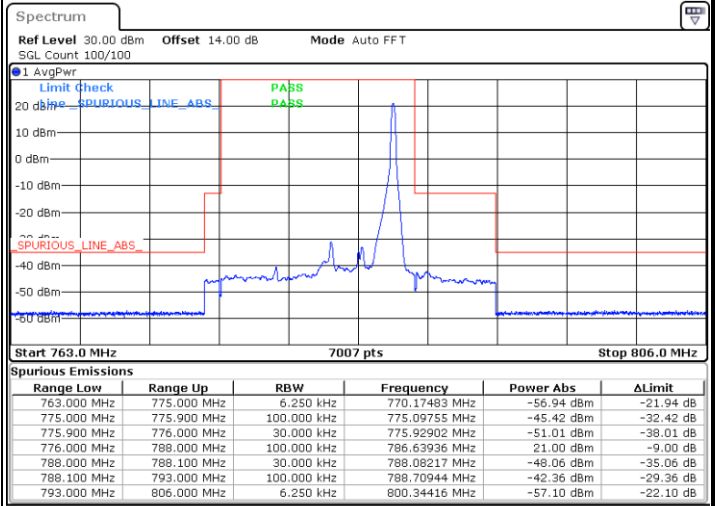
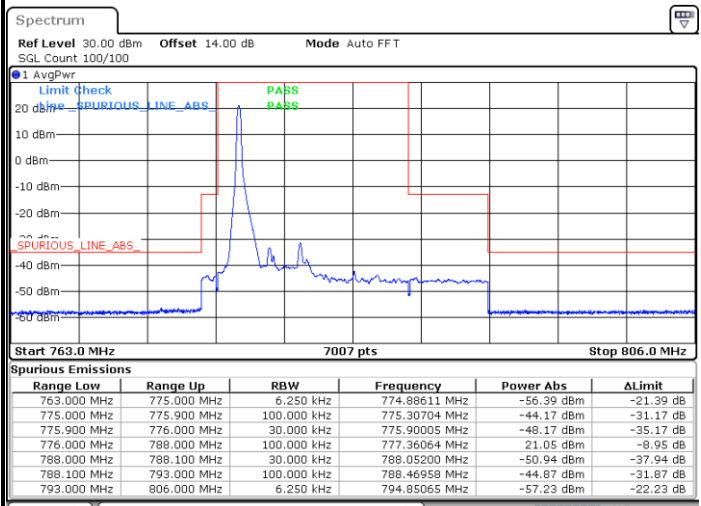
Date: 21.MAR.2024 01:09:15



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

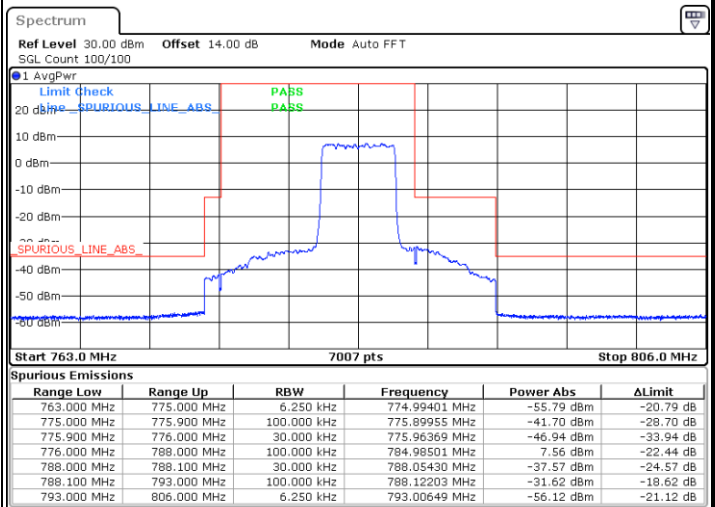
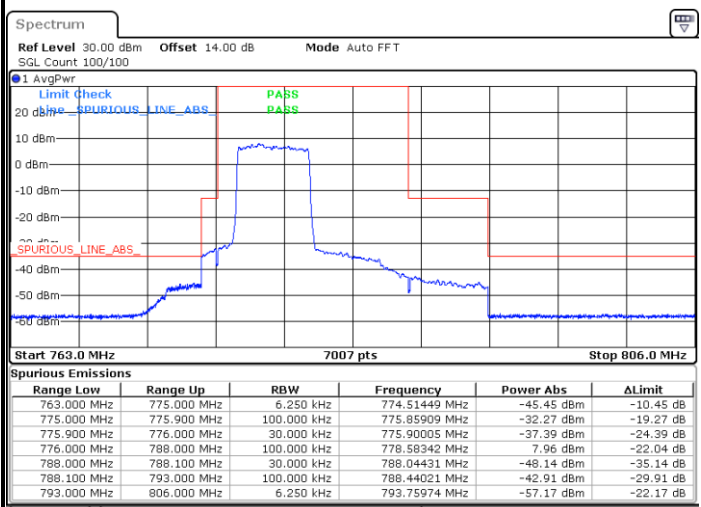


Date: 21.MAR.2024 00:57:21

Date: 21.MAR.2024 01:07:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.MAR.2024 01:00:26

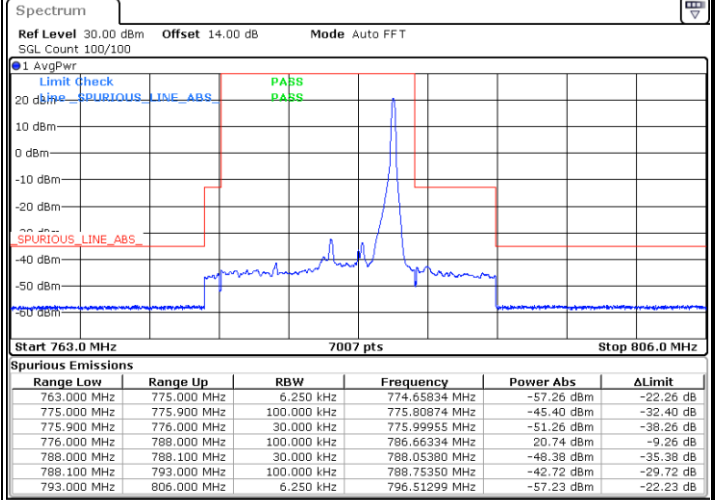
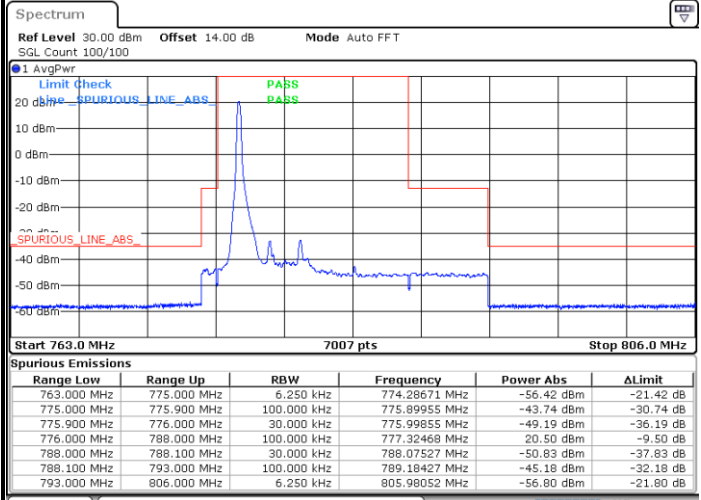
Date: 21.MAR.2024 01:10:17



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

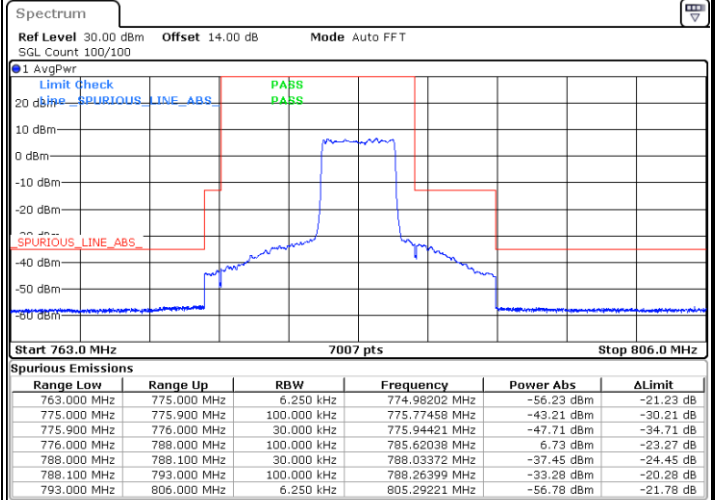
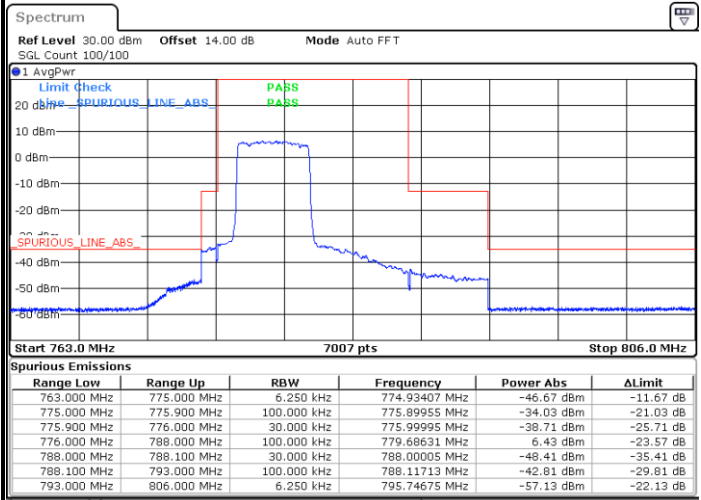


Date: 21.MAR.2024 00:58:23

Date: 21.MAR.2024 01:08:14

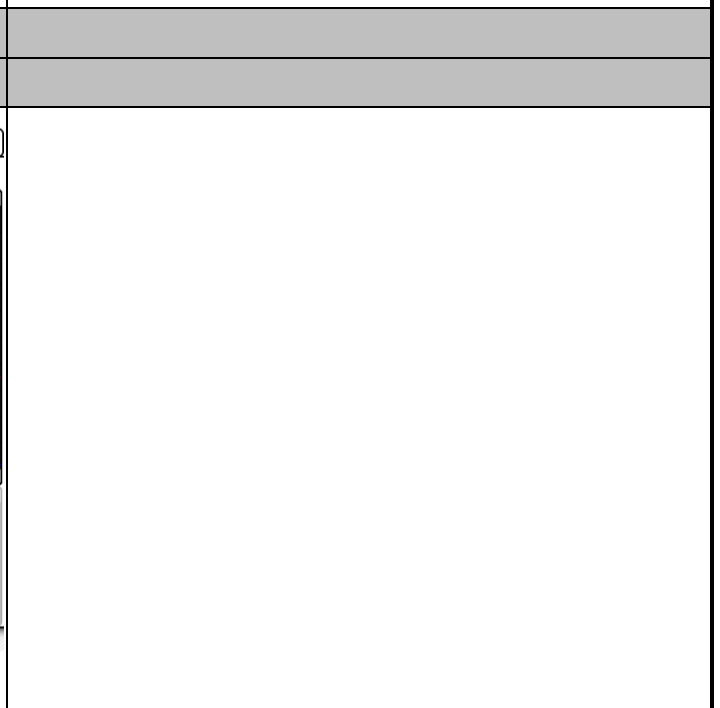
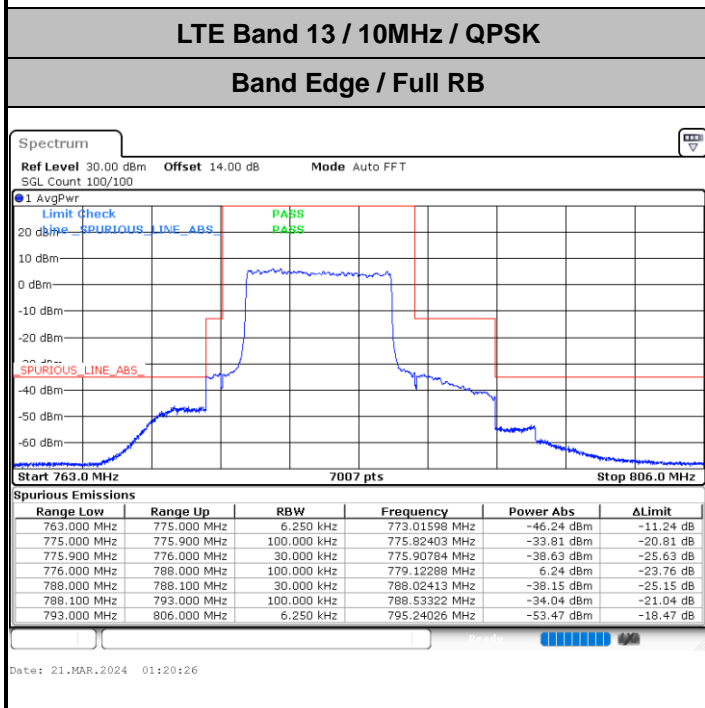
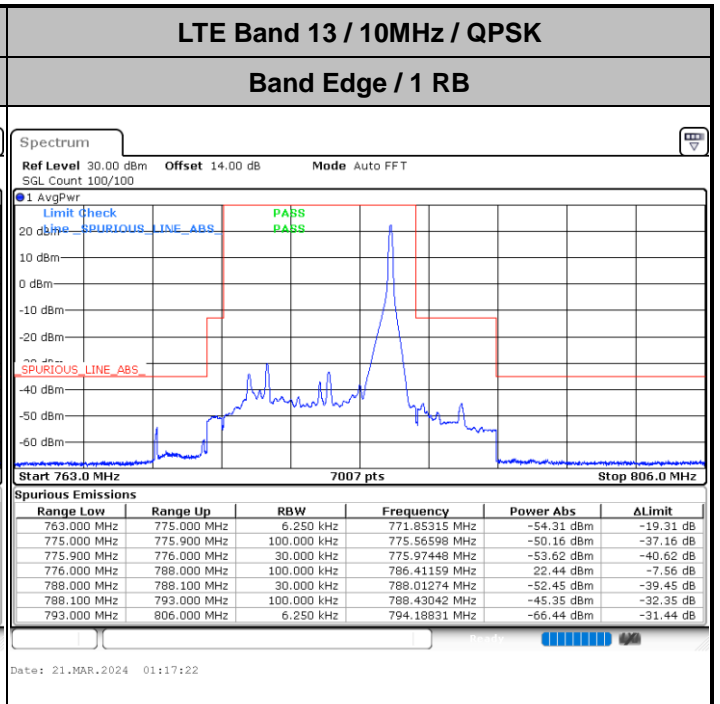
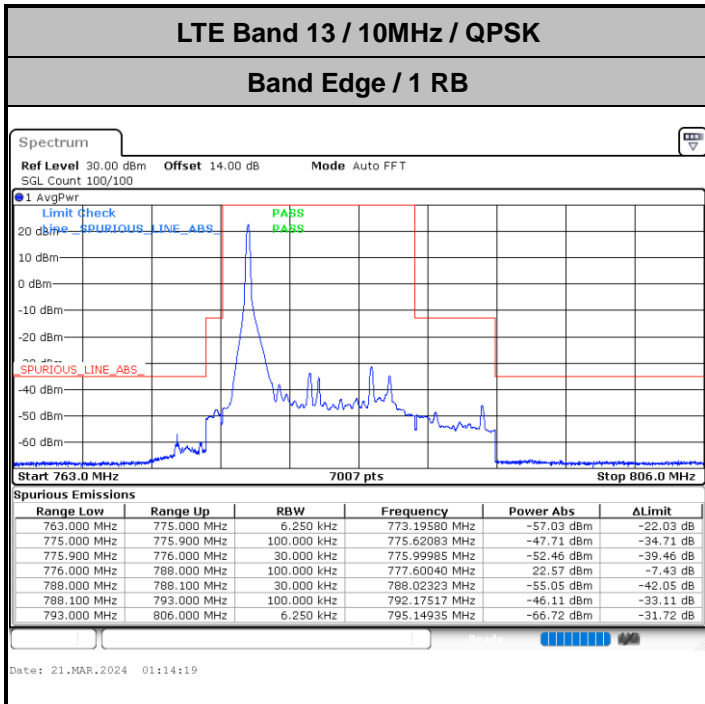
Lowest Band Edge / Full RB

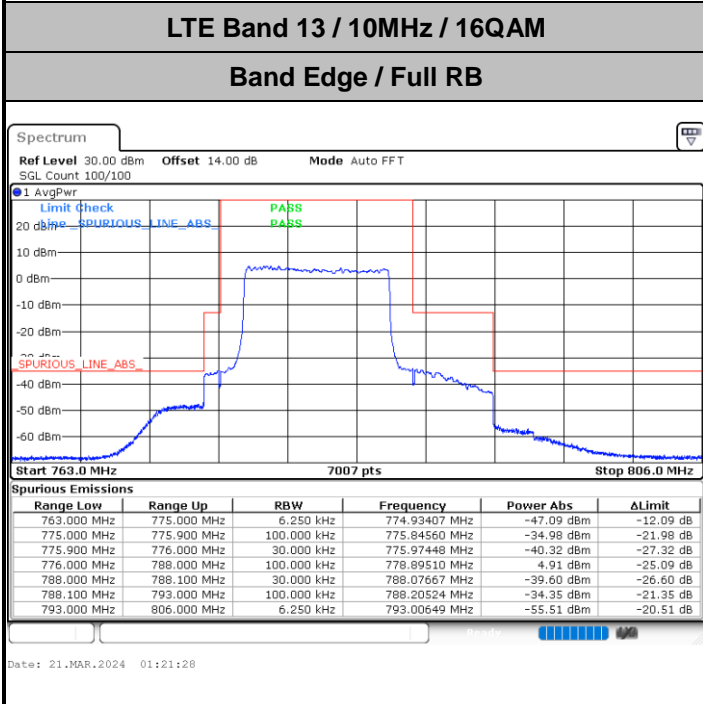
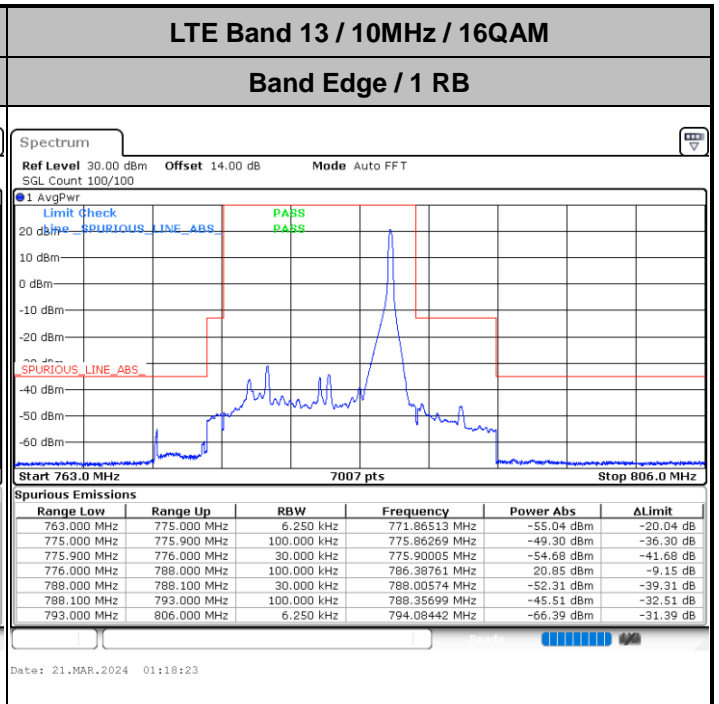
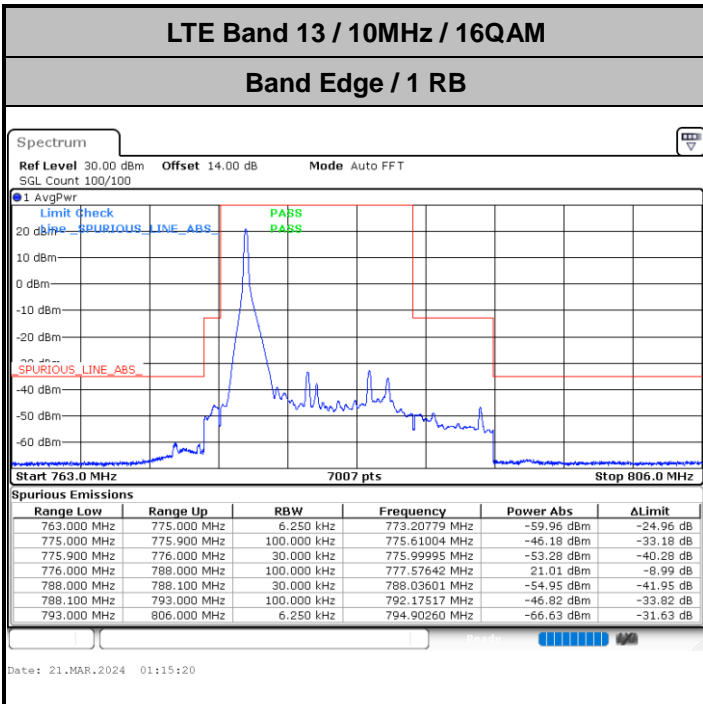
Highest Band Edge / Full RB

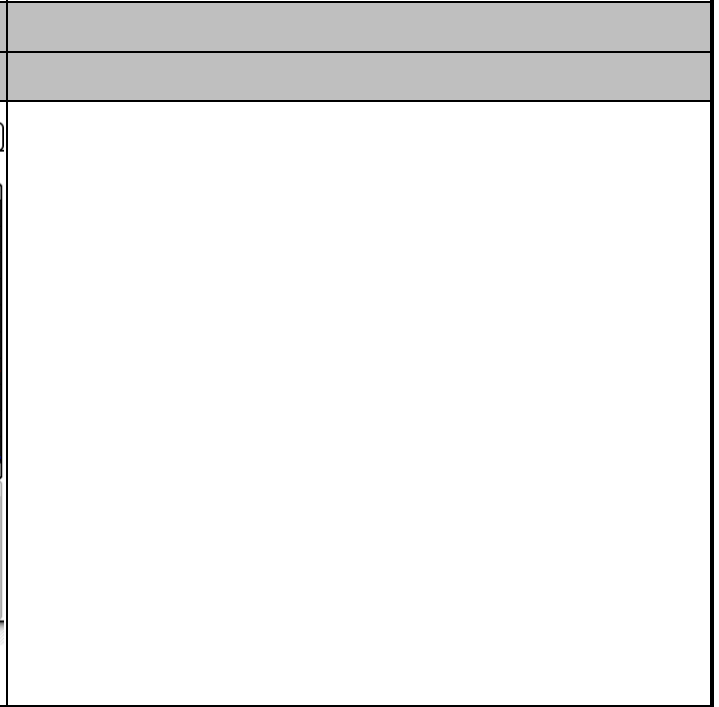
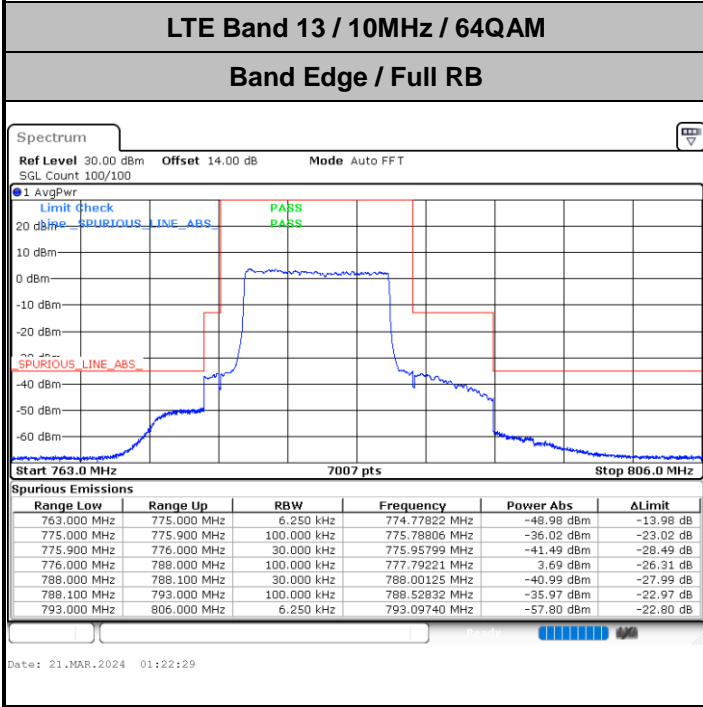
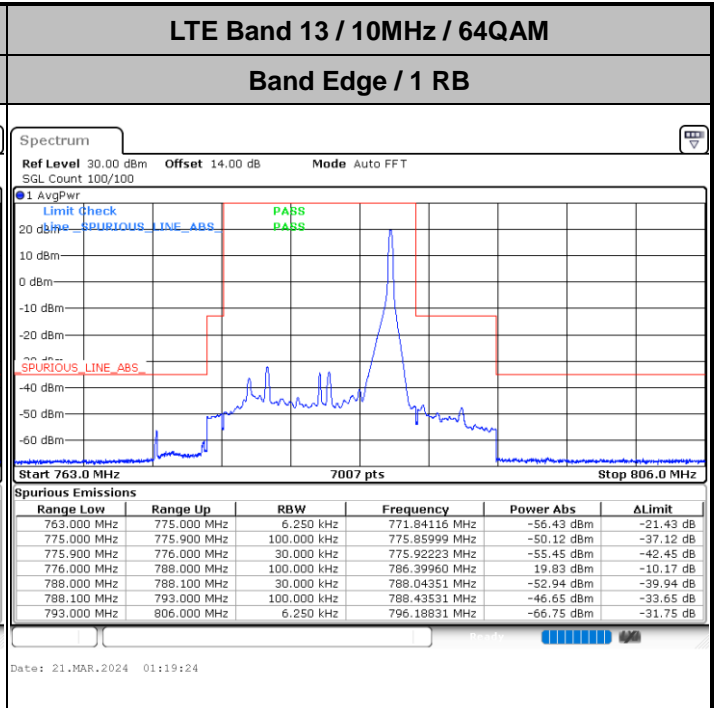
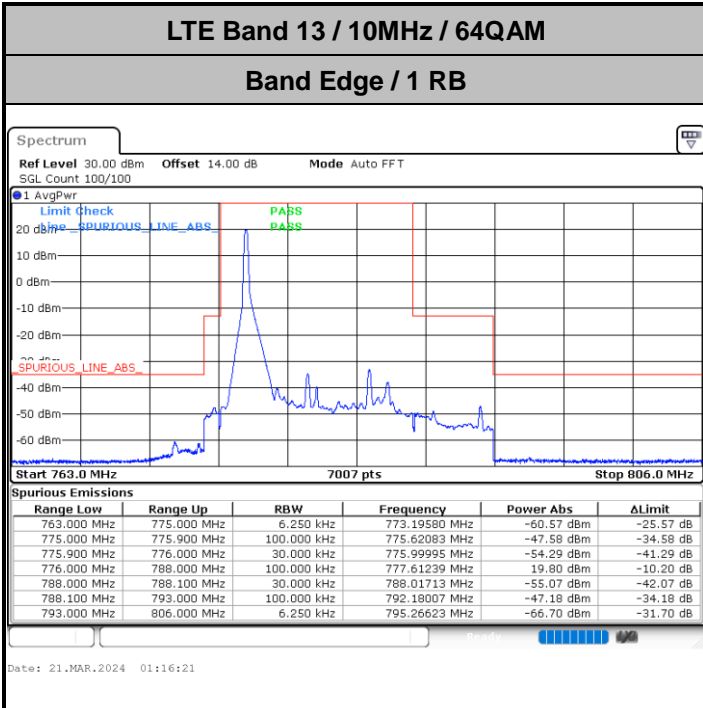


Date: 21.MAR.2024 01:01:27

Date: 21.MAR.2024 01:11:18

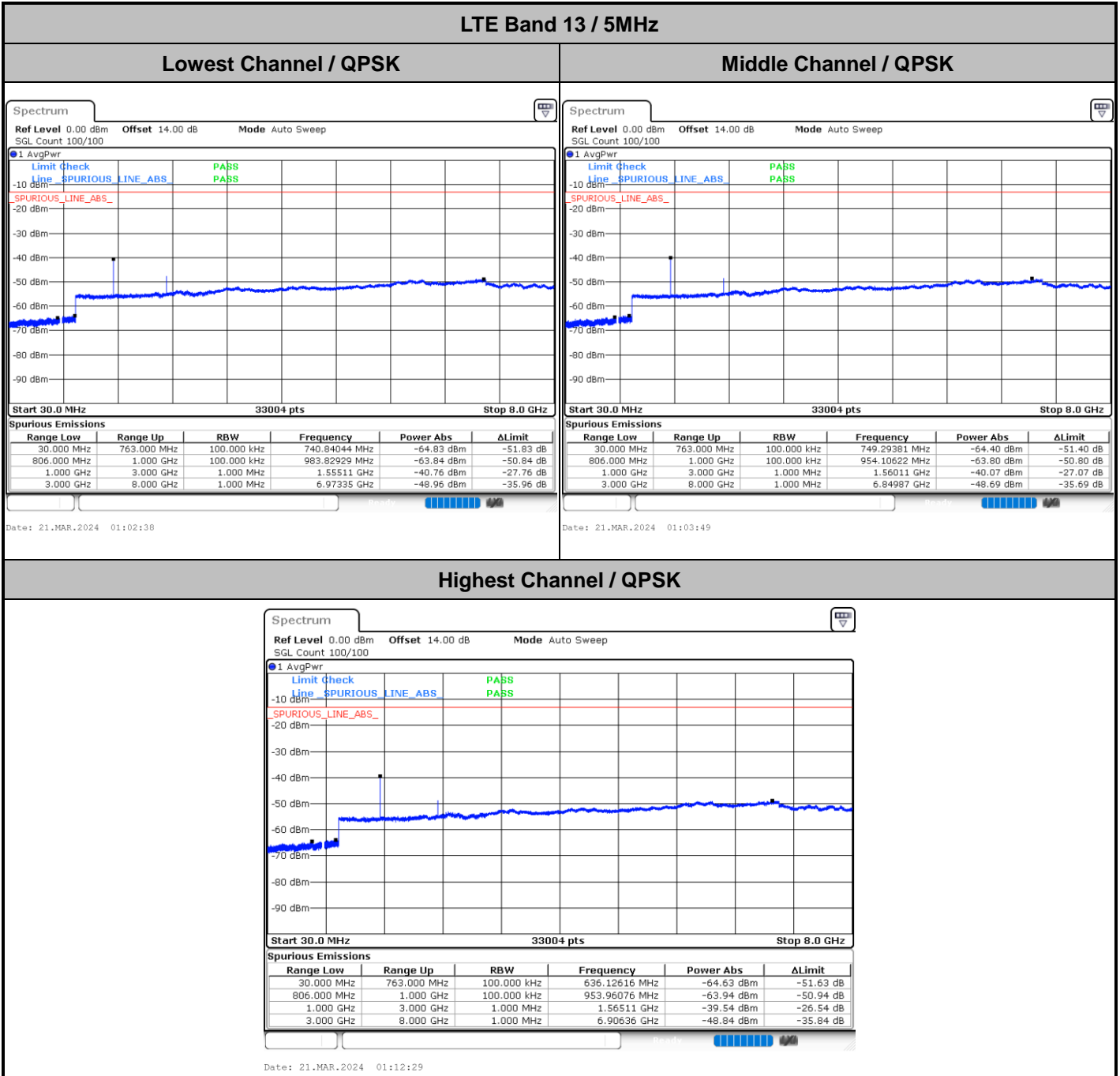








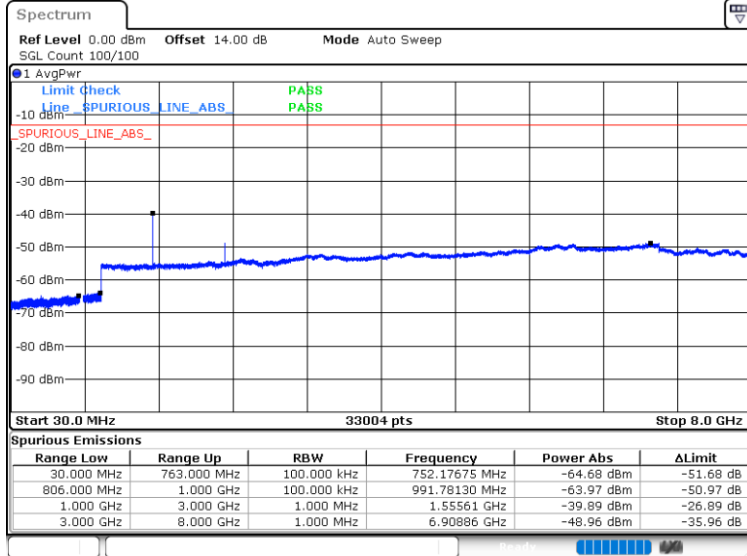
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 21.MAR.2024 01:23:39



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

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 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.84	5.80	6.20	PASS