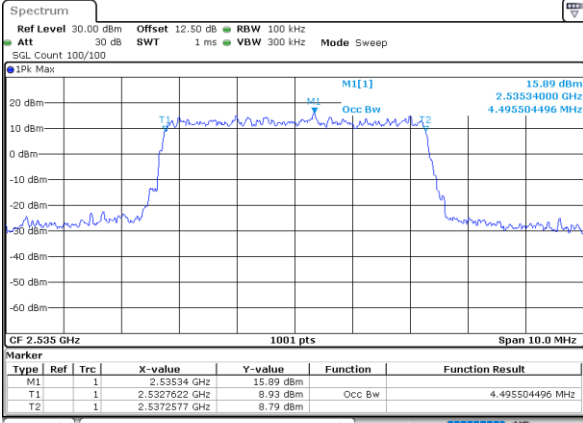




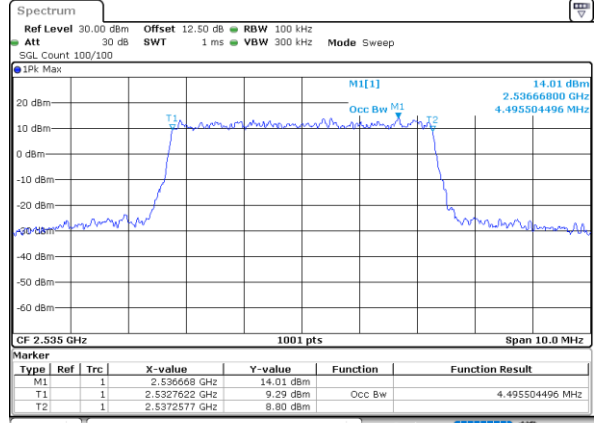
LTE Band 7

Middle Channel / 5MHz / QPSK



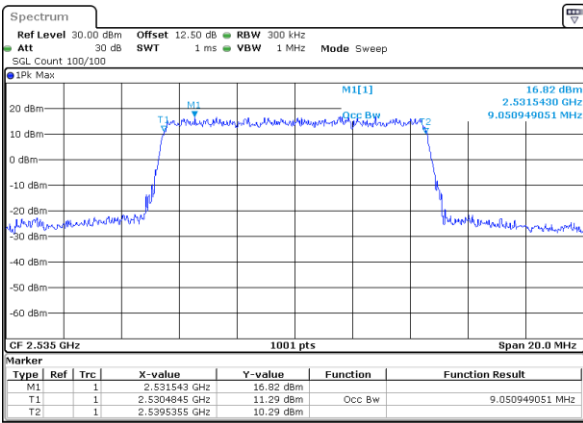
Date: 28.MAR.2024 09:46:06

Middle Channel / 5MHz / 16QAM



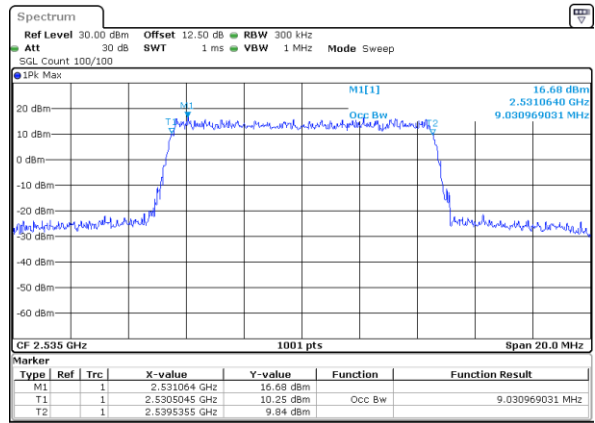
Date: 28.MAR.2024 09:46:58

Middle Channel / 10MHz / QPSK



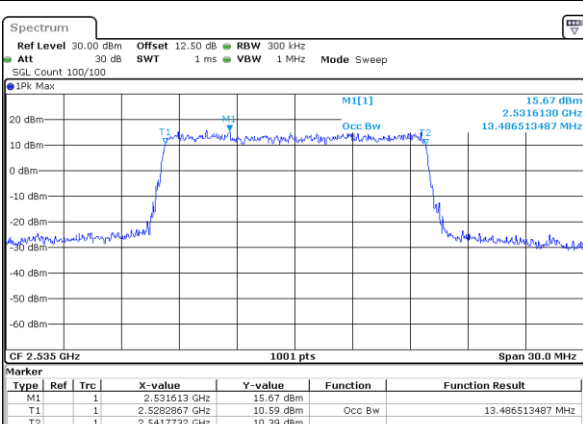
Date: 28.MAR.2024 10:06:44

Middle Channel / 10MHz / 16QAM



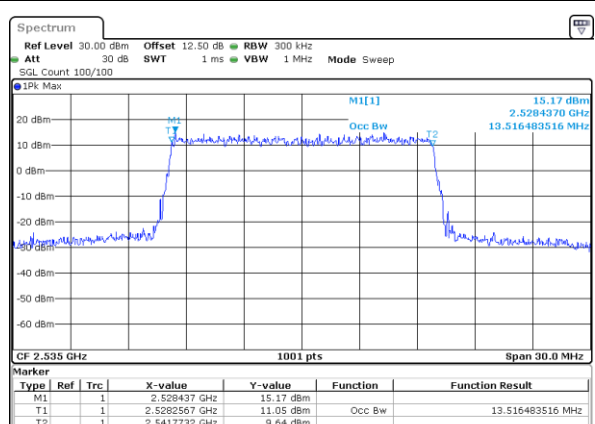
Date: 28.MAR.2024 10:07:33

Middle Channel / 15MHz / QPSK



Date: 28.MAR.2024 10:26:37

Middle Channel / 15MHz / 16QAM

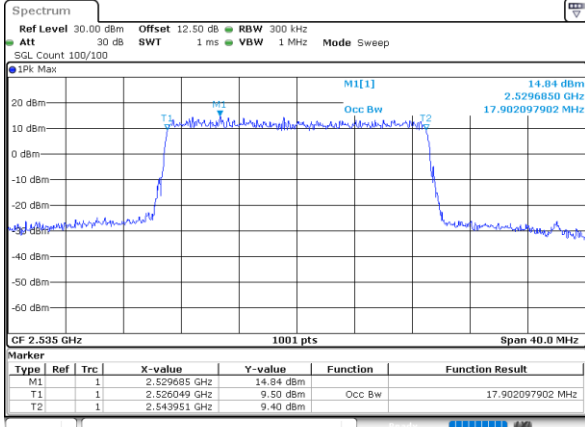


Date: 28.MAR.2024 10:27:23



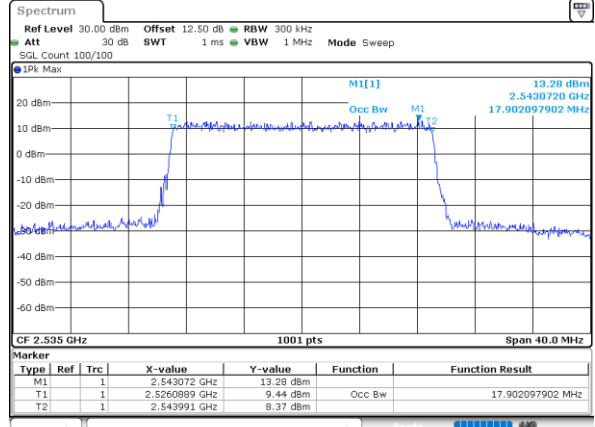
LTE Band 7

Middle Channel / 20MHz / QPSK



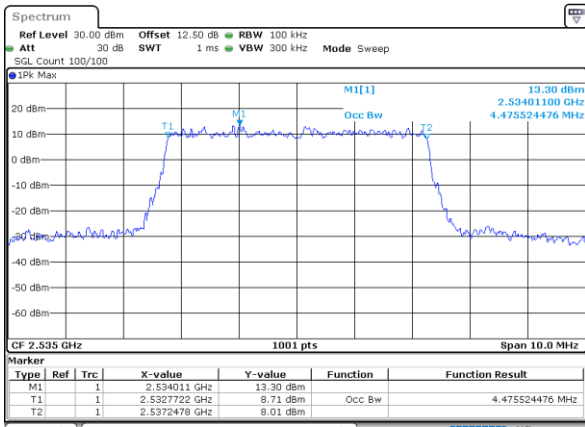
Date: 28.MAR.2024 10:47:08

Middle Channel / 20MHz / 16QAM



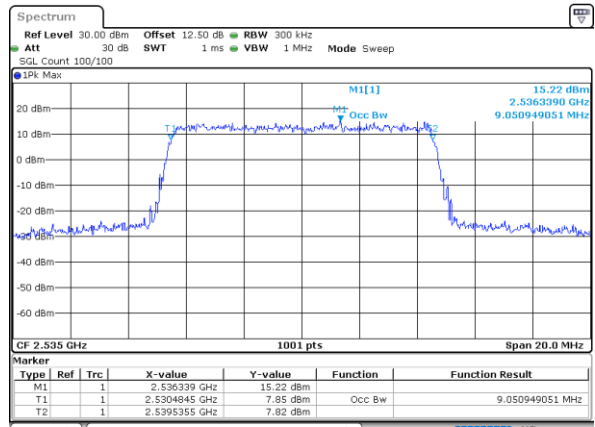
Date: 28.MAR.2024 10:47:55

Middle Channel / 5MHz / 64QAM



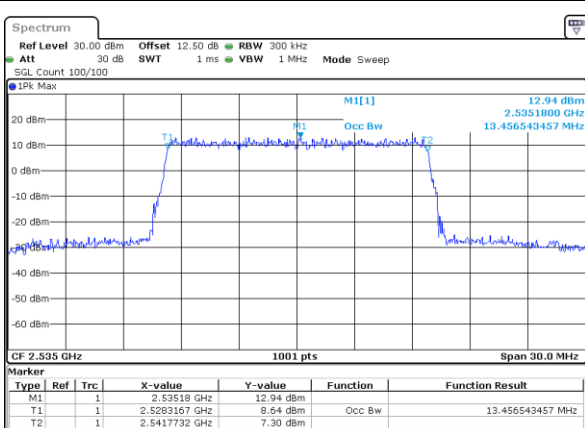
Date: 28.MAR.2024 09:47:50

Middle Channel / 10MHz / 64QAM



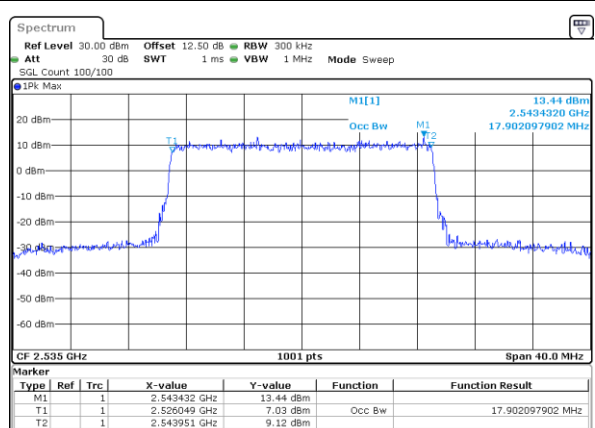
Date: 28.MAR.2024 10:08:19

Middle Channel / 15MHz / 64QAM



Date: 28.MAR.2024 10:28:15

Middle Channel / 20MHz / 64QAM



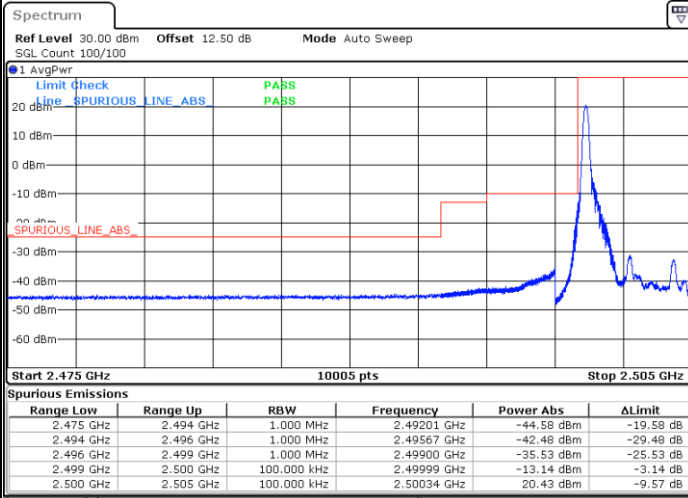
Date: 28.MAR.2024 10:48:50



Conducted Band Edge

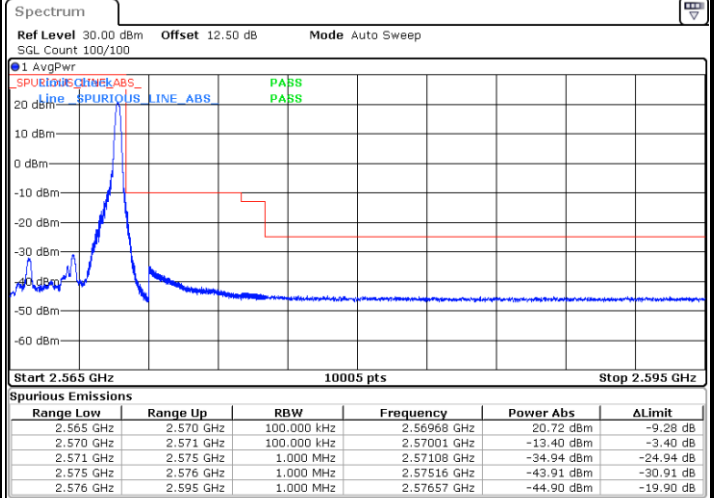
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



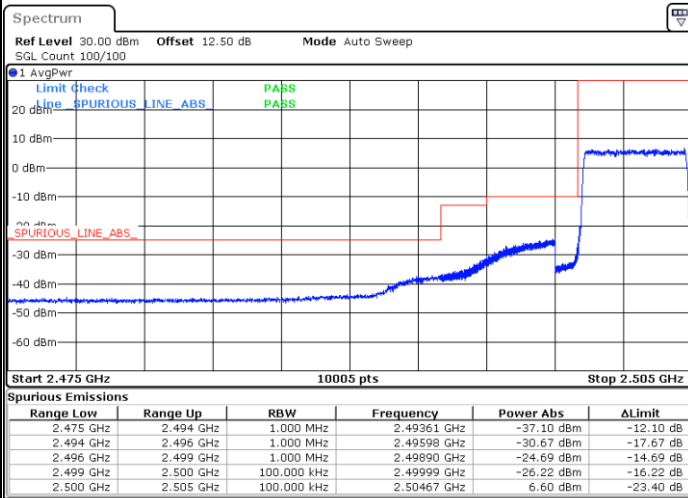
Date: 28.MAR.2024 09:26:24

Highest Band Edge / 1 RB



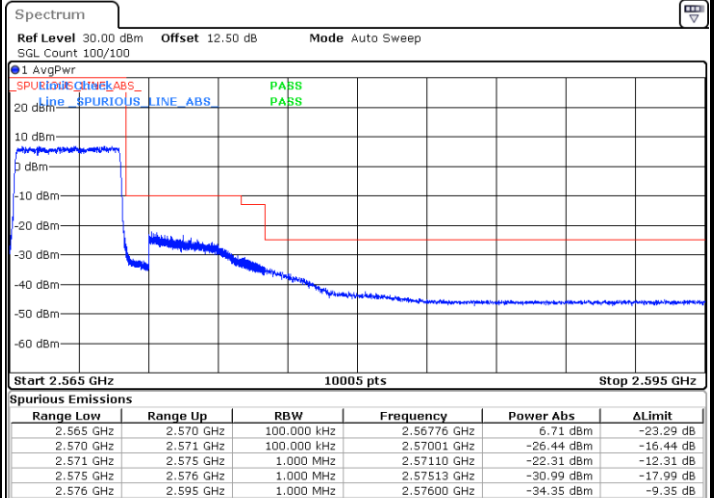
Date: 28.MAR.2024 09:36:31

Lowest Band Edge / Full RB



Date: 28.MAR.2024 09:31:28

Highest Band Edge / Full RB

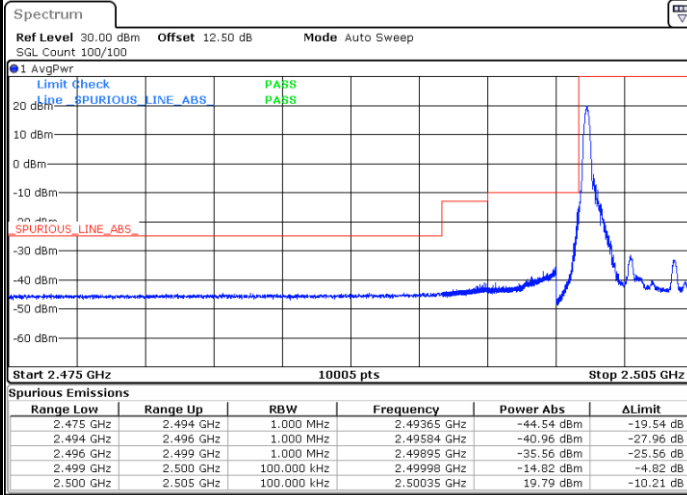


Date: 28.MAR.2024 09:41:57



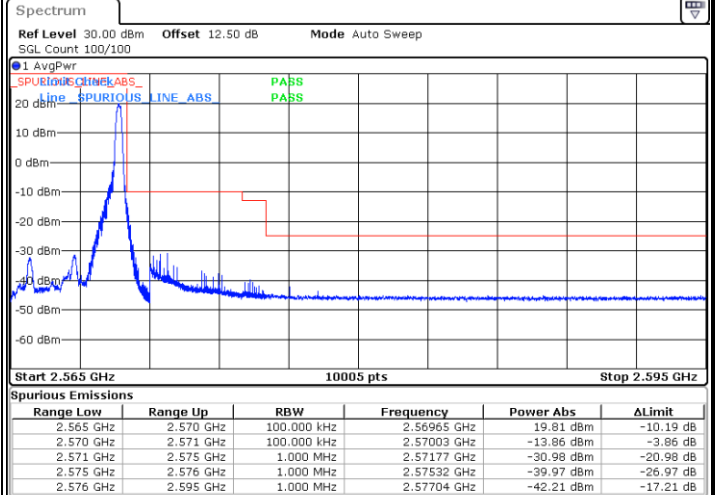
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



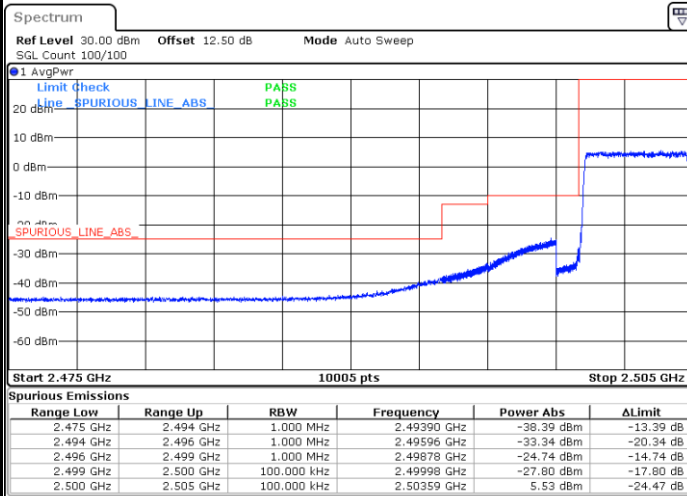
Date: 28.MAR.2024 09:27:59

Highest Band Edge / 1 RB



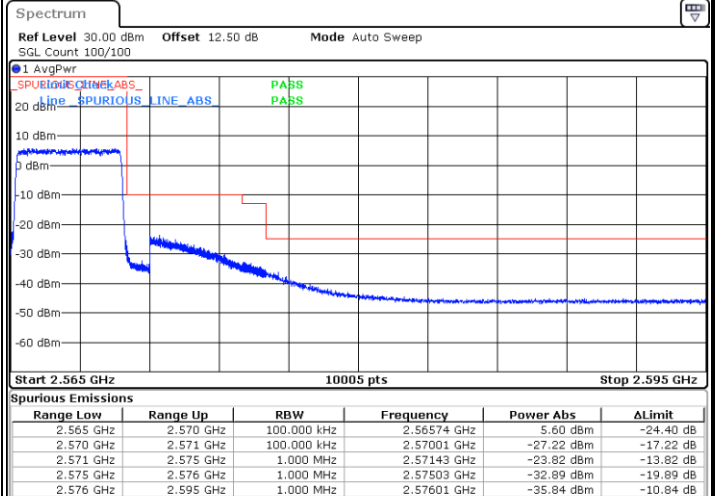
Date: 28.MAR.2024 09:38:17

Lowest Band Edge / Full RB



Date: 28.MAR.2024 09:33:16

Highest Band Edge / Full RB

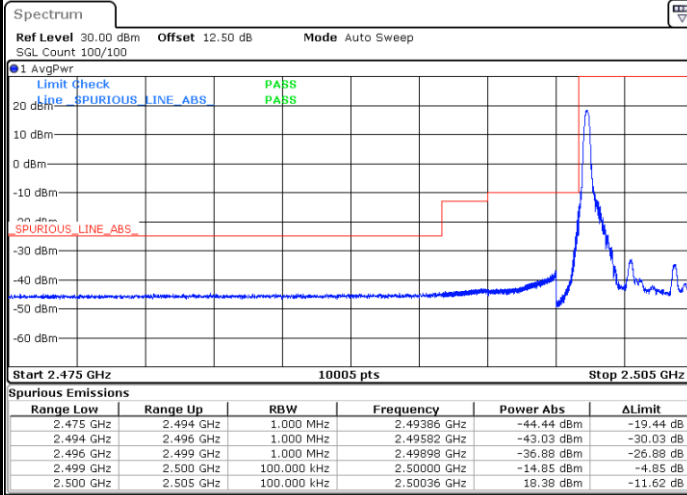


Date: 28.MAR.2024 09:43:39



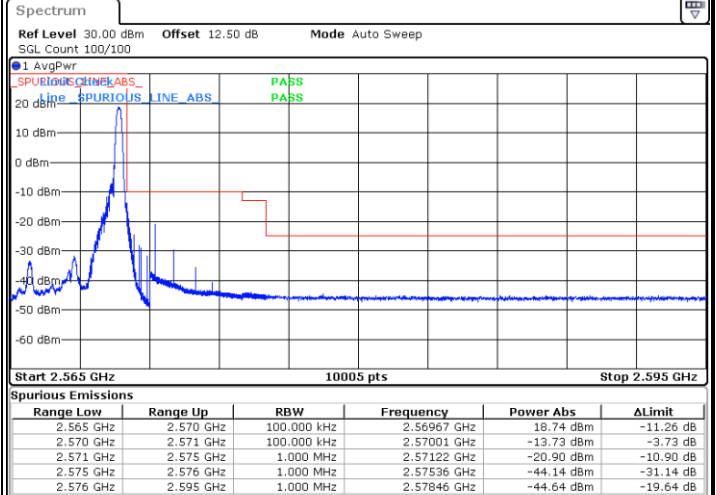
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



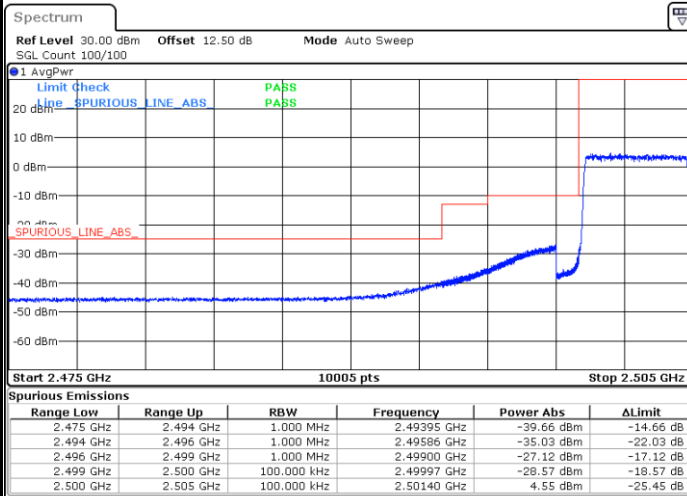
Date: 28.MAR.2024 09:29:46

Highest Band Edge / 1 RB



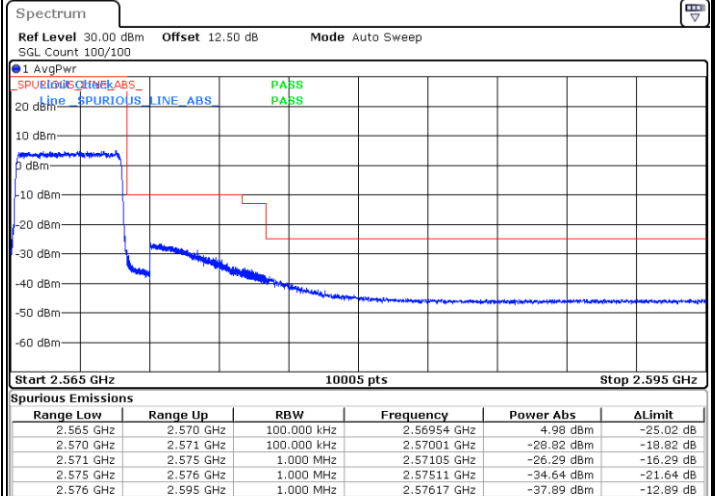
Date: 28.MAR.2024 09:40:08

Lowest Band Edge / Full RB



Date: 28.MAR.2024 09:34:53

Highest Band Edge / Full RB

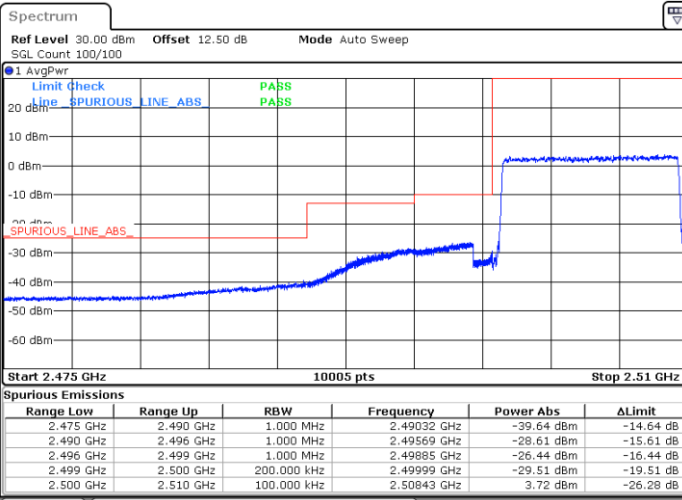


Date: 28.MAR.2024 09:45:17



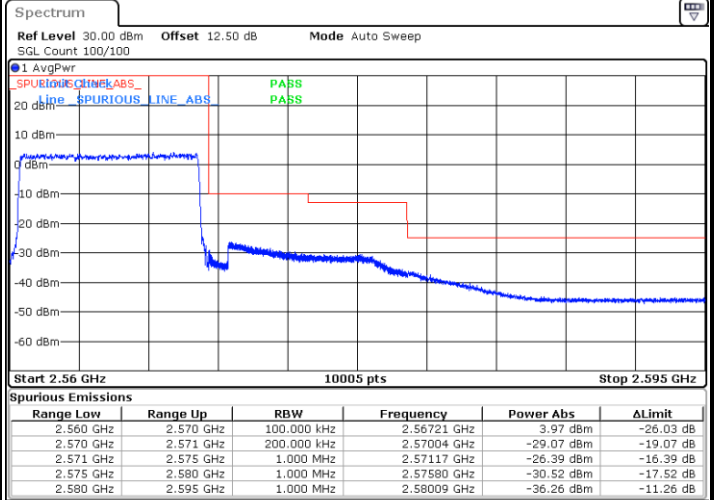
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 28.MAR.2024 09:57:19

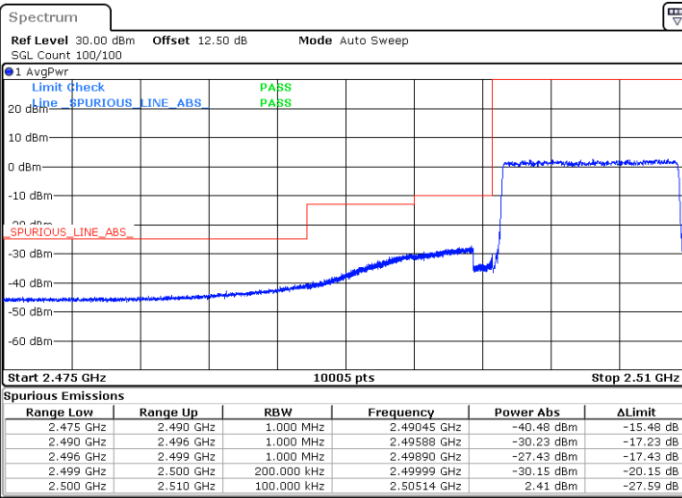
Highest Band Edge / Full RB



Date: 28.MAR.2024 10:02:14

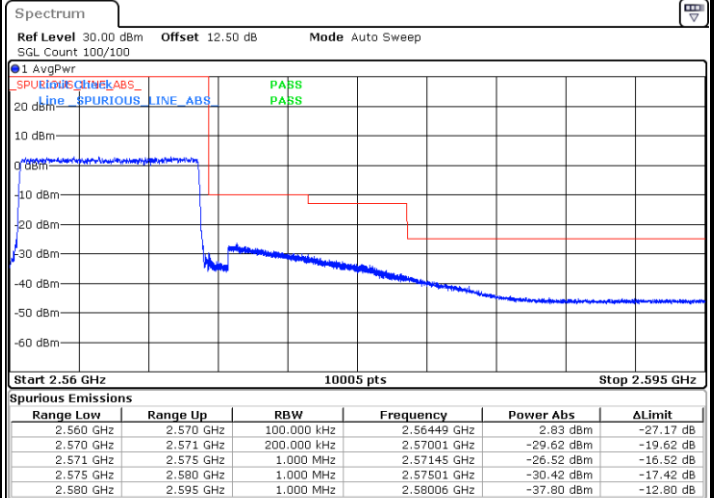
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 28.MAR.2024 09:59:00

Highest Band Edge / Full RB



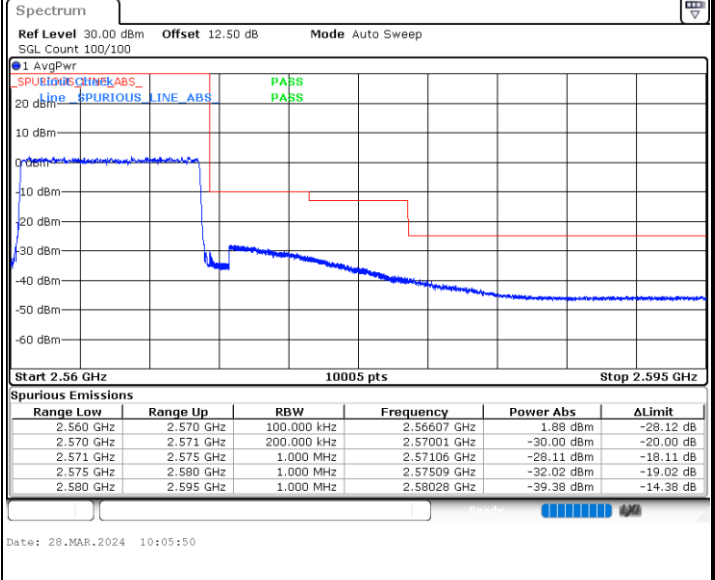
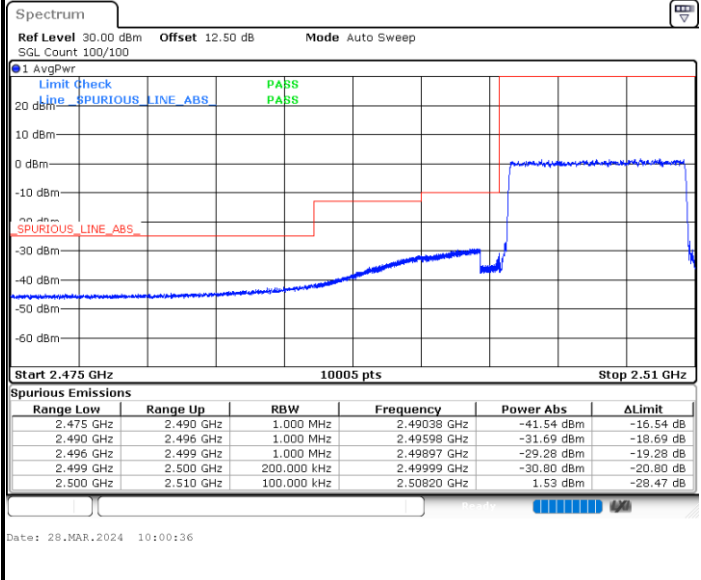
Date: 28.MAR.2024 10:04:02



LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / Full RB

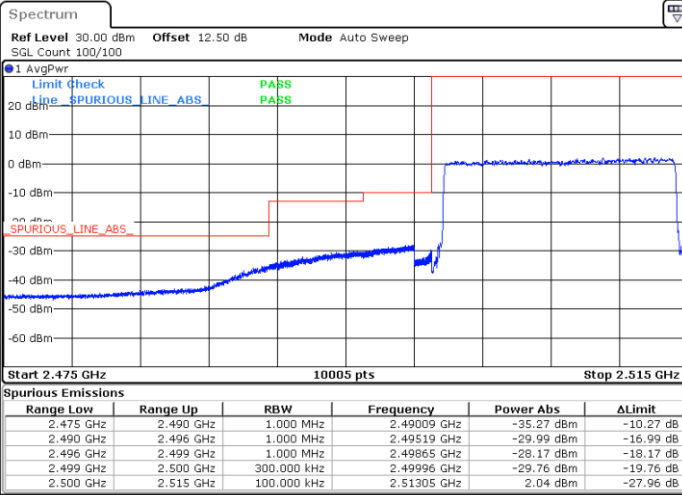
Highest Band Edge / Full RB





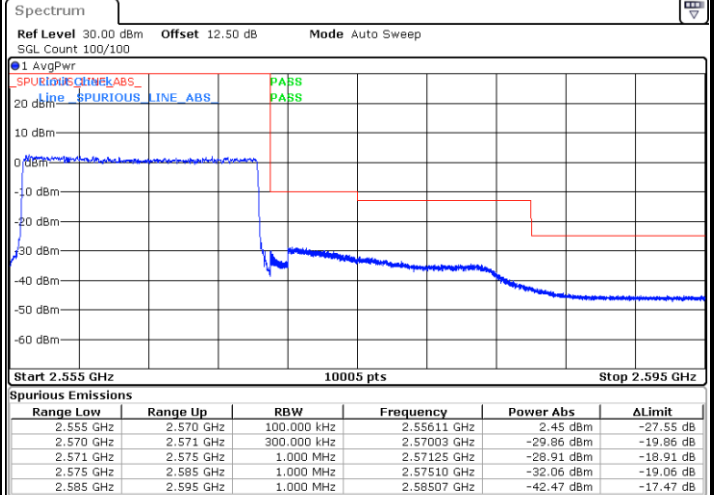
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 28.MAR.2024 10:17:25

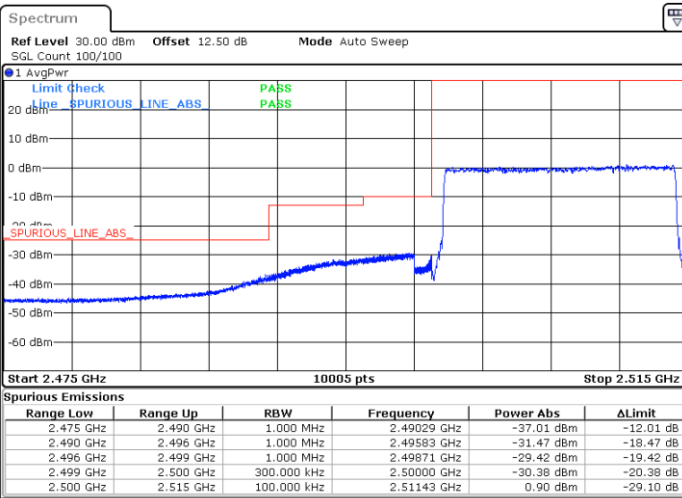
Highest Band Edge / Full RB



Date: 28.MAR.2024 10:22:28

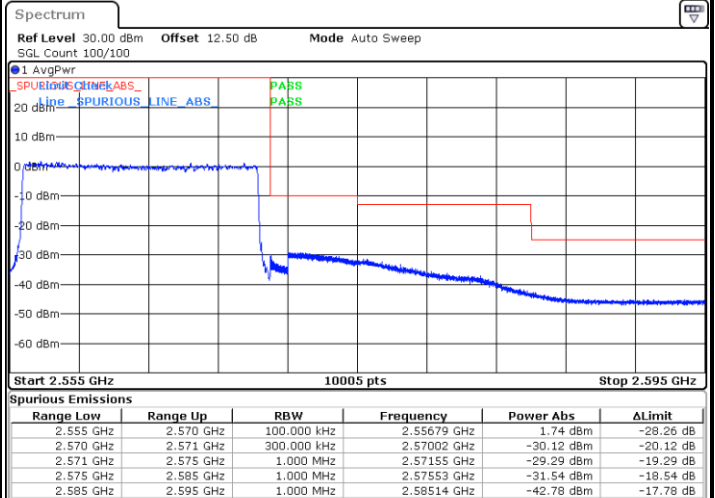
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 28.MAR.2024 10:19:06

Highest Band Edge / Full RB



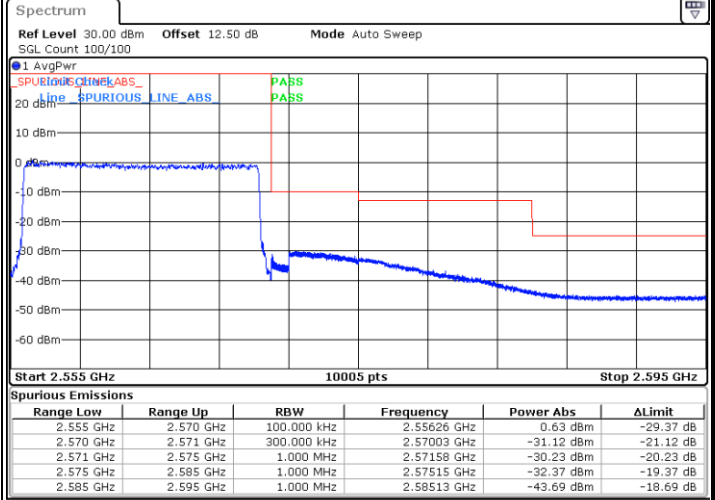
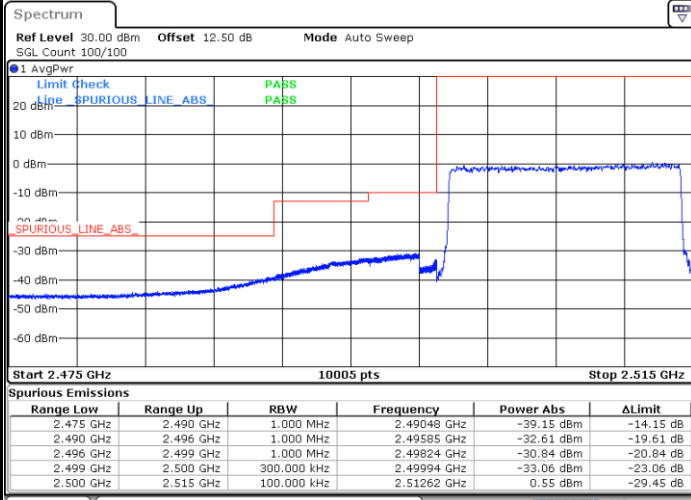
Date: 28.MAR.2024 10:24:05



LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



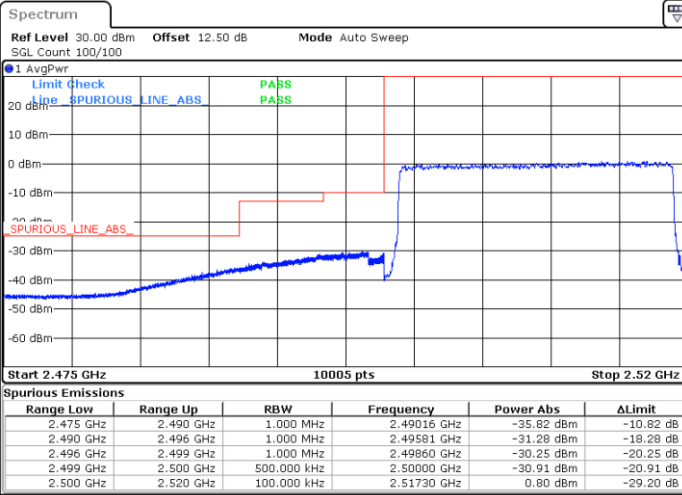
Date: 28.MAR.2024 10:20:45

Date: 28.MAR.2024 10:25:42



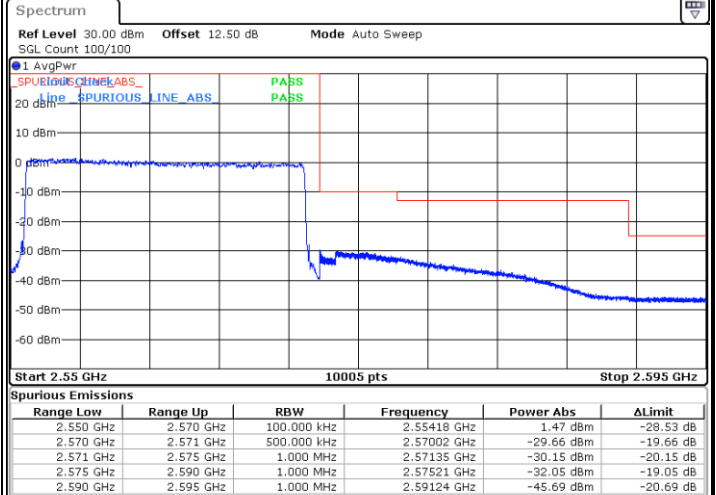
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 28.MAR.2024 10:37:35

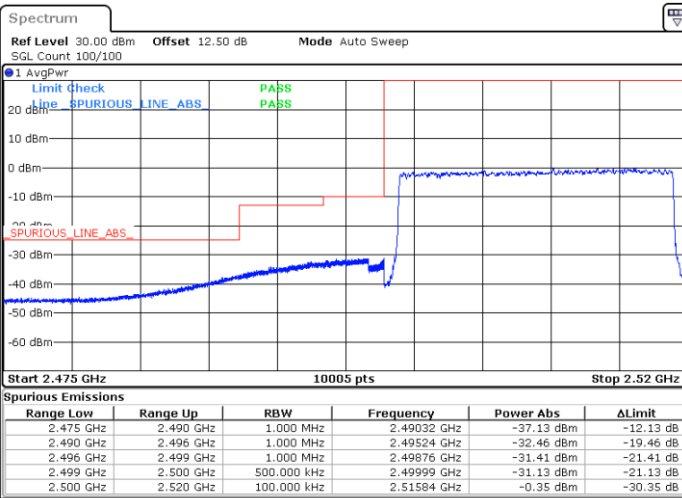
Highest Band Edge / Full RB



Date: 28.MAR.2024 10:42:32

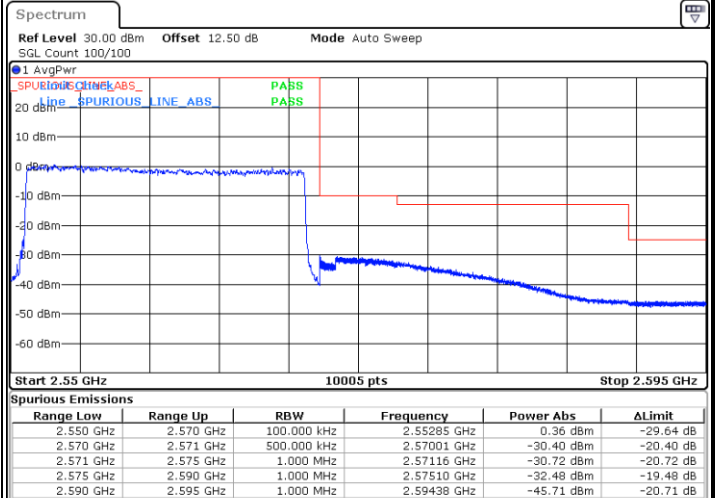
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 28.MAR.2024 10:39:01

Highest Band Edge / Full RB



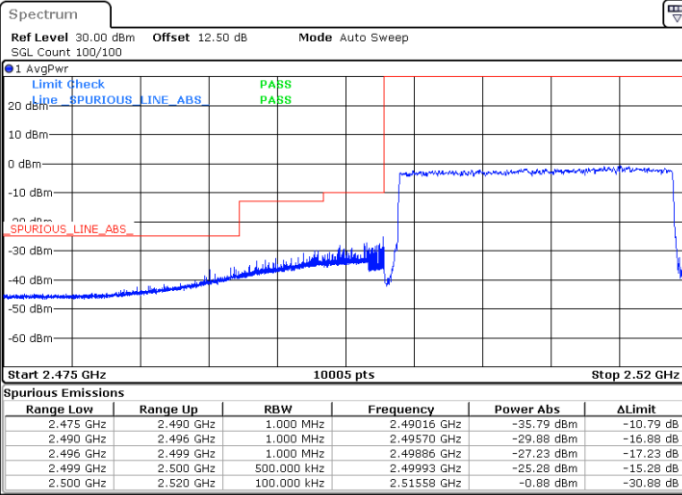
Date: 28.MAR.2024 10:44:18



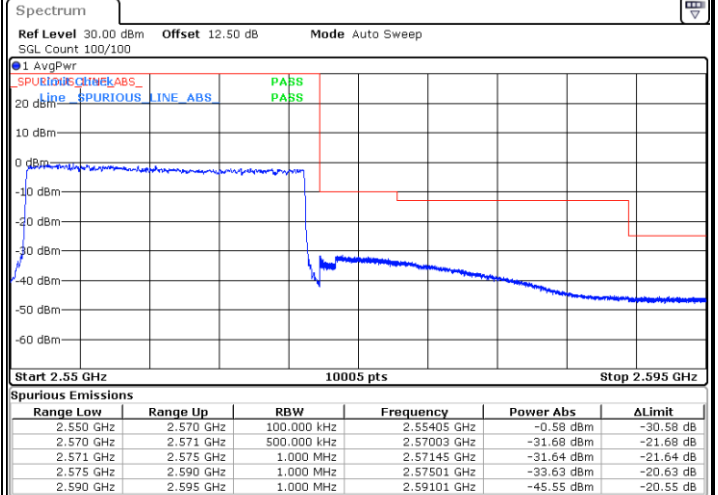
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAR.2024 10:40:46



Date: 28.MAR.2024 10:46:09

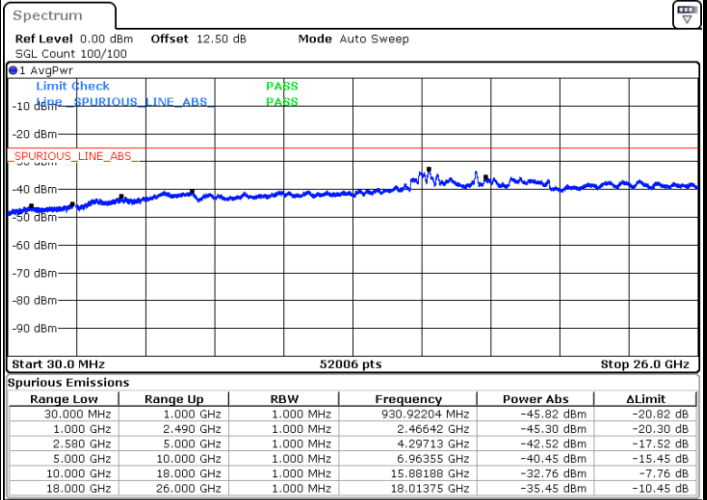
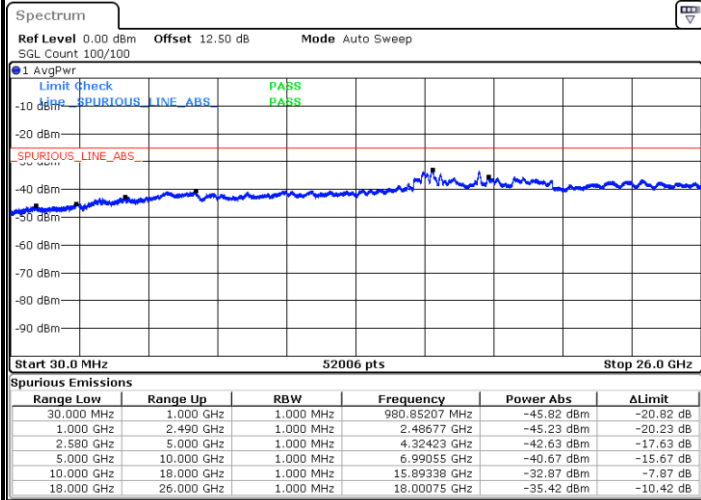


Conducted Spurious Emission

LTE Band 7 / 5MHz

Lowest Channel / QPSK

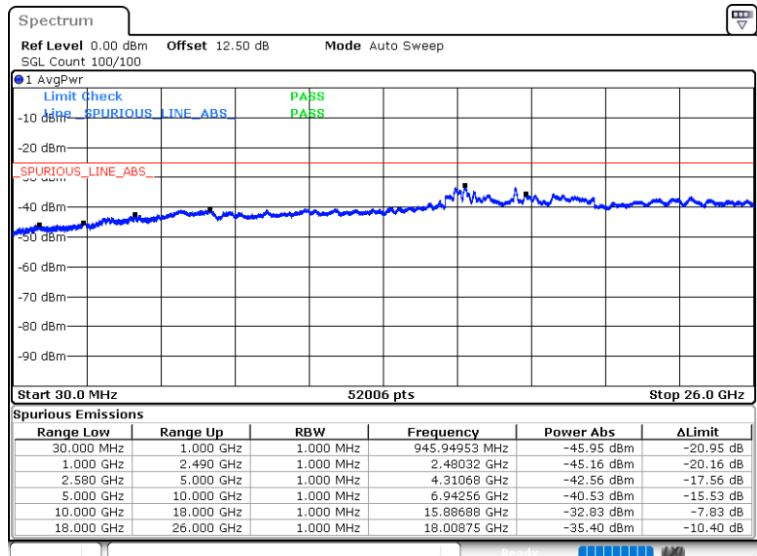
Middle Channel / QPSK



Date: 28.MAR.2024 09:52:18

Date: 28.MAR.2024 09:54:01

Highest Channel / QPSK



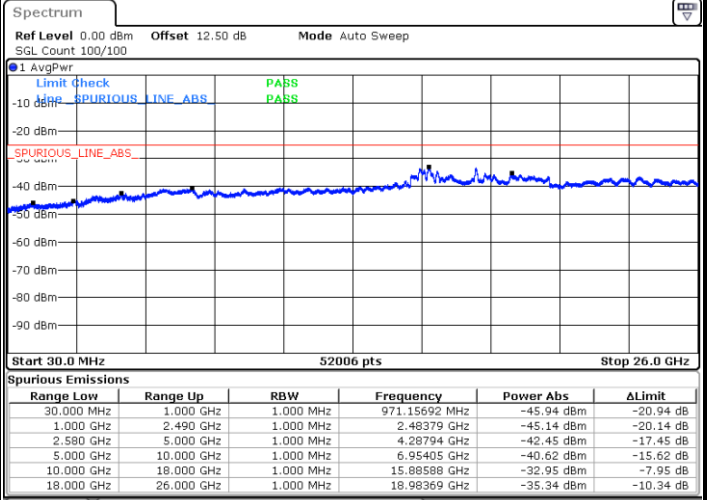
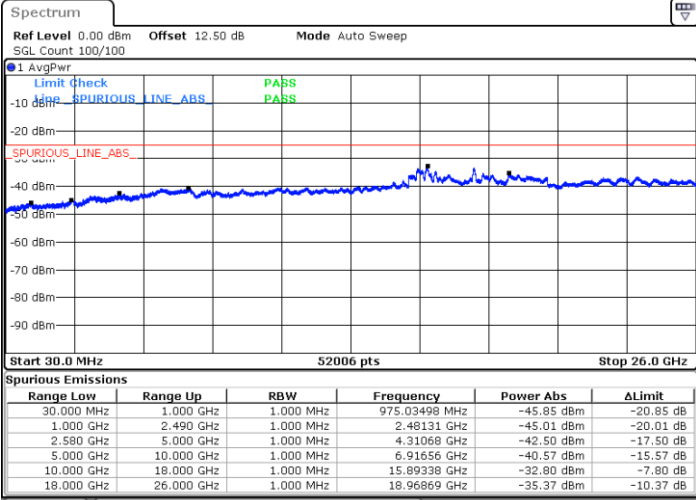
Date: 28.MAR.2024 09:55:41



LTE Band 7 / 10MHz

Lowest Channel / QPSK

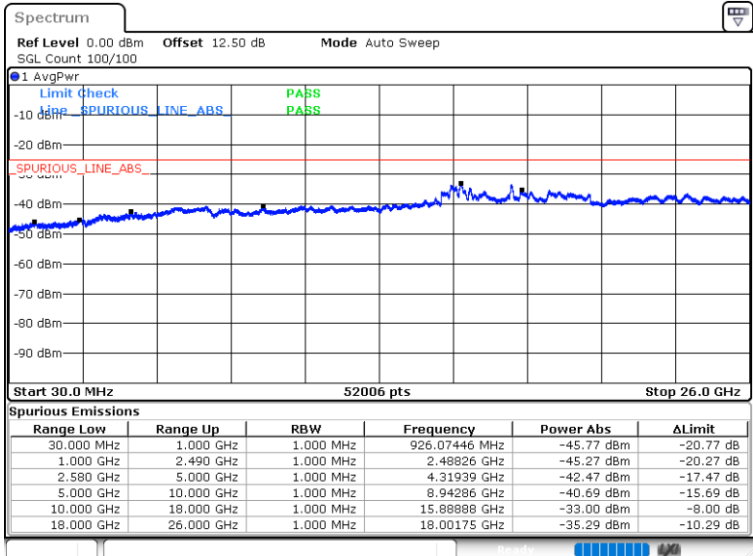
Middle Channel / QPSK



Date: 28.MAR.2024 10:12:33

Date: 28.MAR.2024 10:14:09

Highest Channel / QPSK



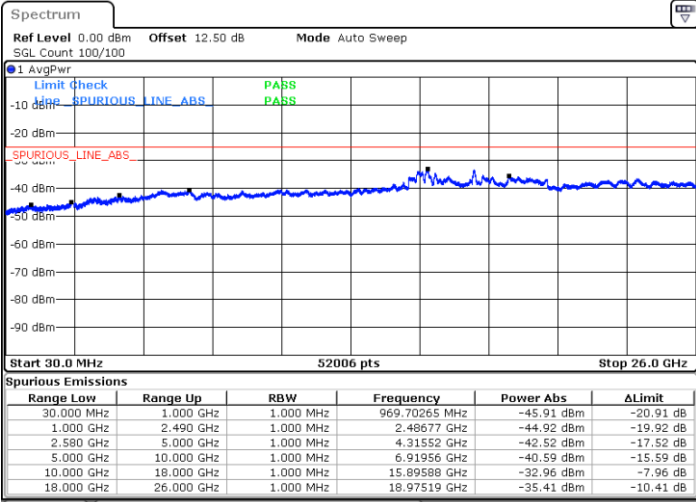
Date: 28.MAR.2024 10:15:49



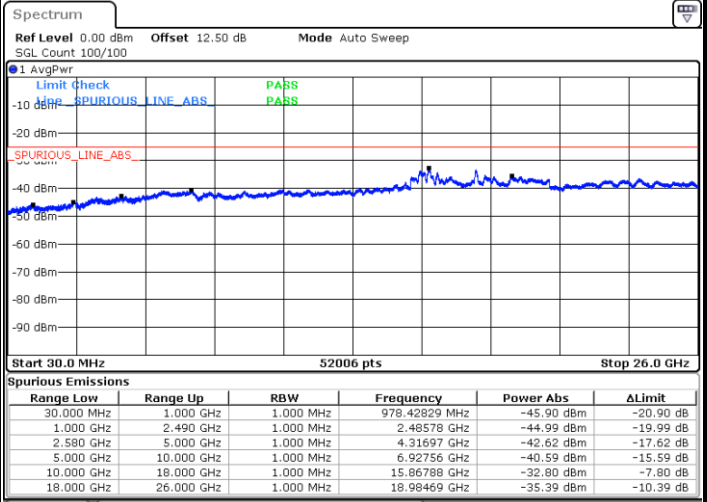
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

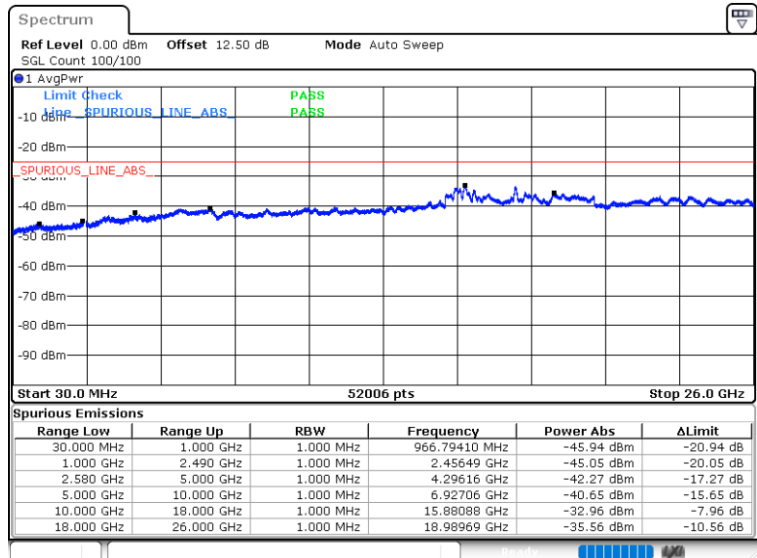


Date: 28.MAR.2024 10:32:38



Date: 28.MAR.2024 10:34:22

Highest Channel / QPSK



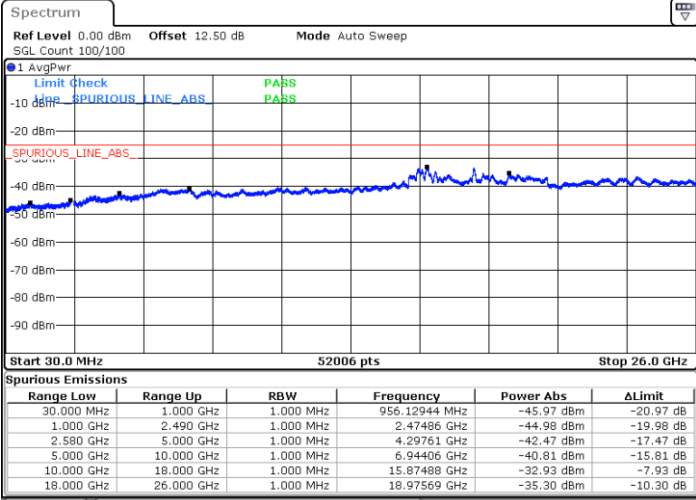
Date: 28.MAR.2024 10:35:57



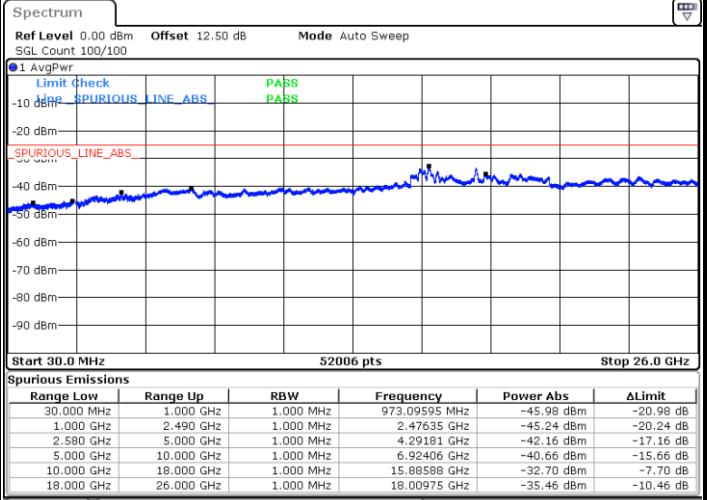
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

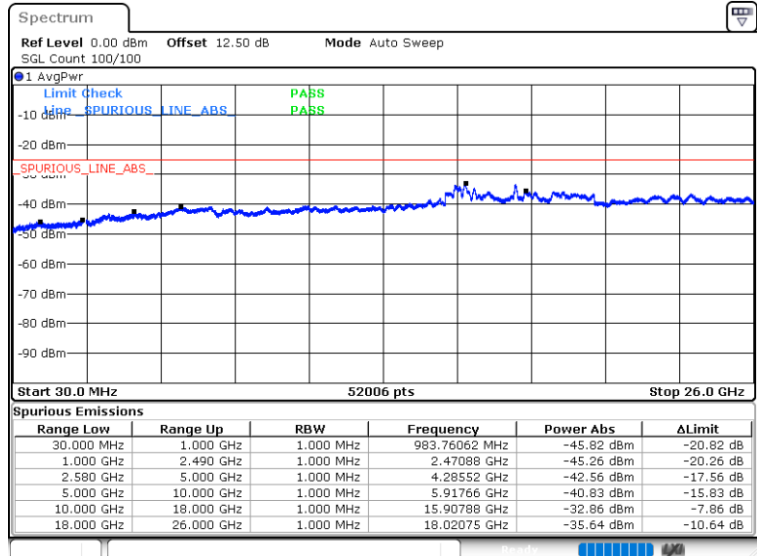


Date: 28.MAR.2024 10:55:42



Date: 28.MAR.2024 10:57:30

Highest Channel / QPSK



Date: 28.MAR.2024 10:59:16



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0030	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

- 1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



<Ant. 0>

LTE Band 12

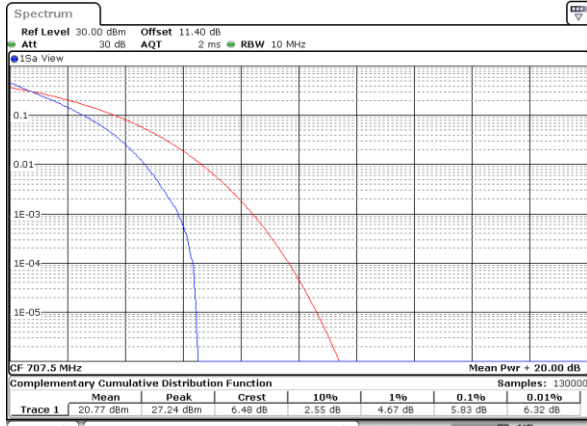
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.83	6.46	6.52	-	PASS



LTE Band 12 / 10MHz / QPSK

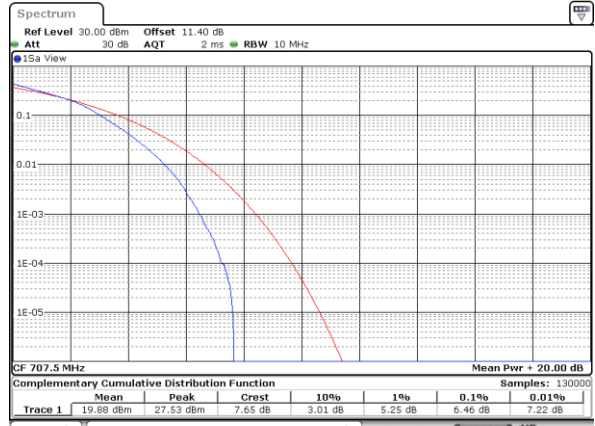
Middle Channel / Full RB



Date: 28.MAR.2024 11:12:20

LTE Band 12 / 10MHz / 16QAM

Middle Channel / Full RB



Date: 28.MAR.2024 11:15:24

LTE Band 12 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 28.MAR.2024 11:17:47



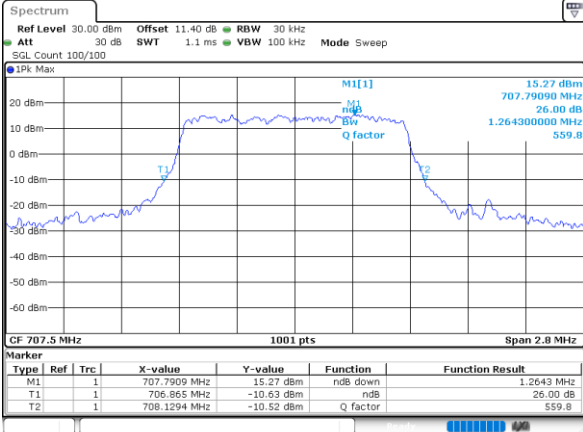
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.26	1.26	3.00	3.00	4.83	4.88	9.76	9.73	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.28	-	2.97	-	4.88	-	9.75	-	-	-	-	-



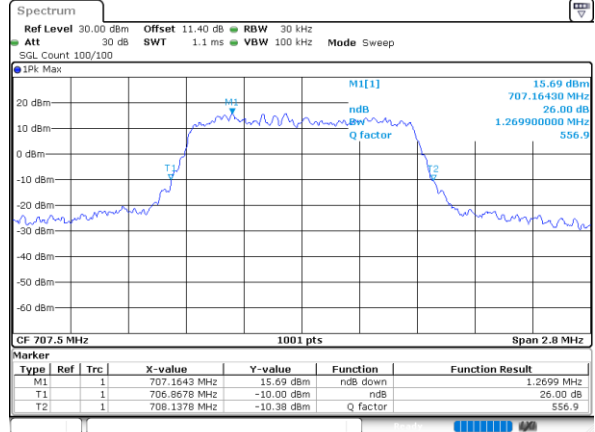
LTE Band 12

Middle Channel / 1.4MHz / QPSK



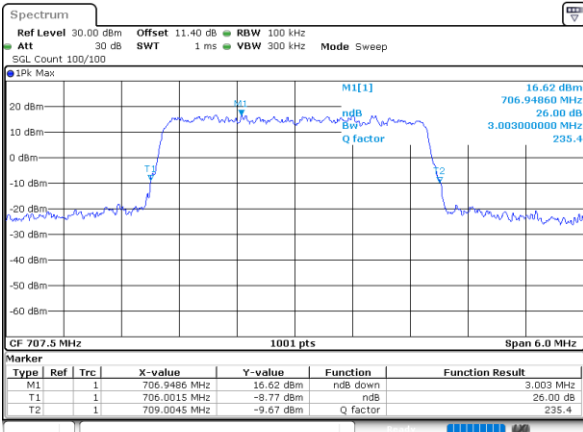
Date: 27_MAR_2024 17:09:10

Middle Channel / 1.4MHz / 16QAM



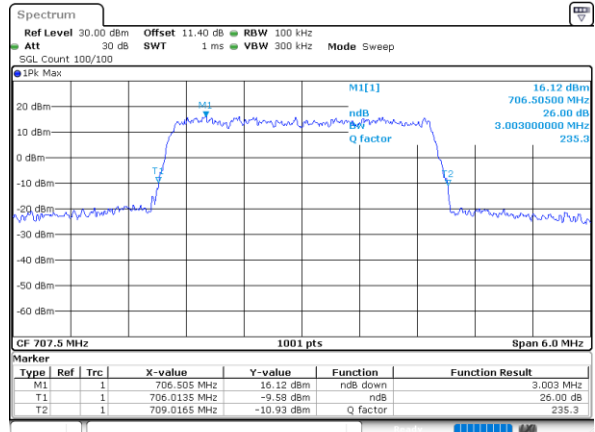
Date: 27_MAR_2024 17:10:09

Middle Channel / 3MHz / QPSK



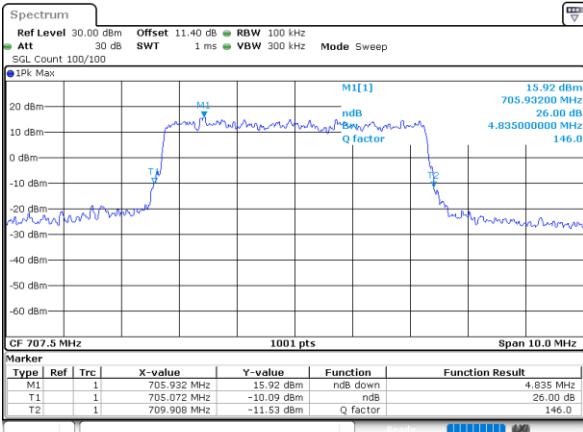
Date: 27_MAR_2024 17:39:05

Middle Channel / 3MHz / 16QAM



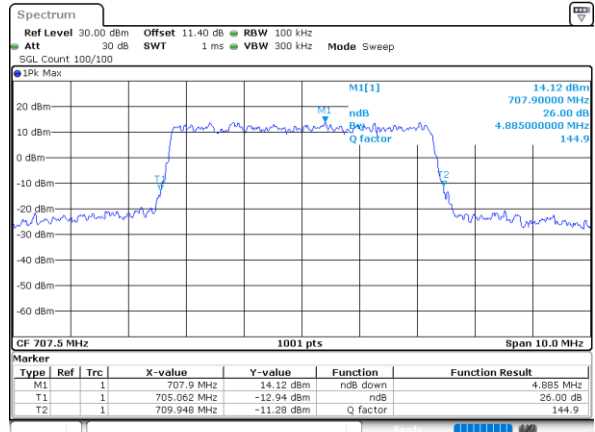
Date: 27_MAR_2024 17:40:23

Middle Channel / 5MHz / QPSK



Date: 27_MAR_2024 18:09:27

Middle Channel / 5MHz / 16QAM

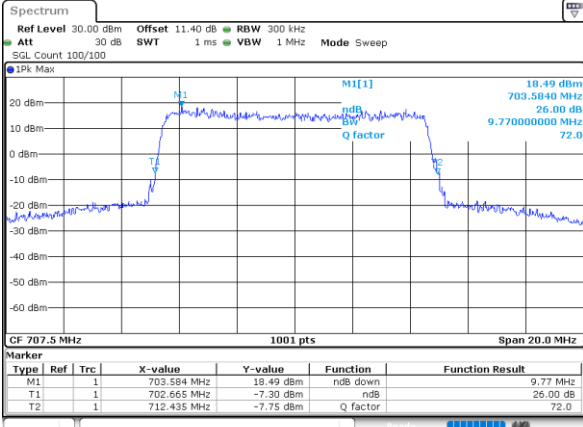


Date: 27_MAR_2024 18:10:23



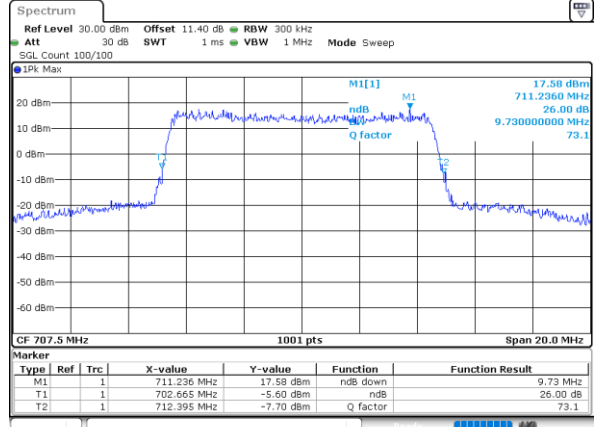
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 27_MAR_2024 18:40:08

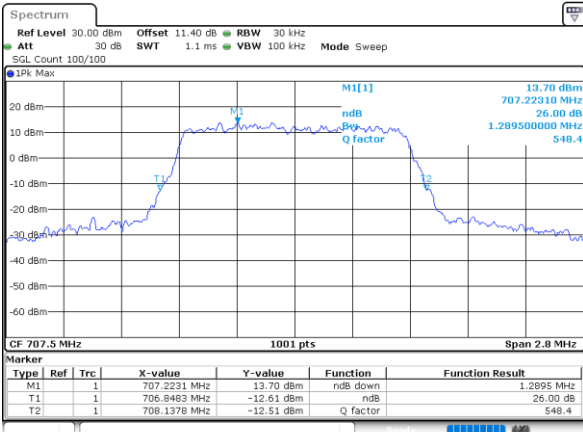
Middle Channel / 10MHz / 16QAM



Date: 27_MAR_2024 18:41:08

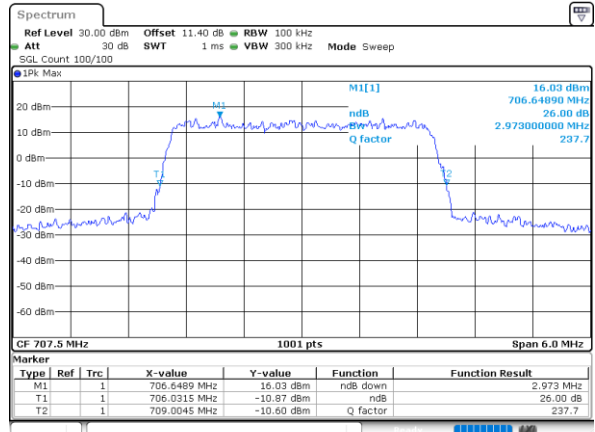
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



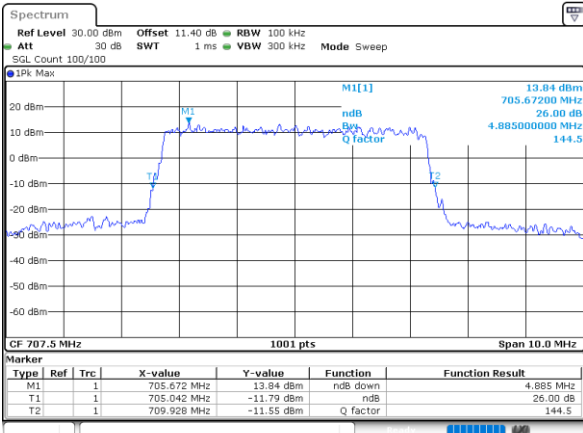
Date: 27_MAR_2024 17:11:05

Middle Channel / 3MHz / 64QAM



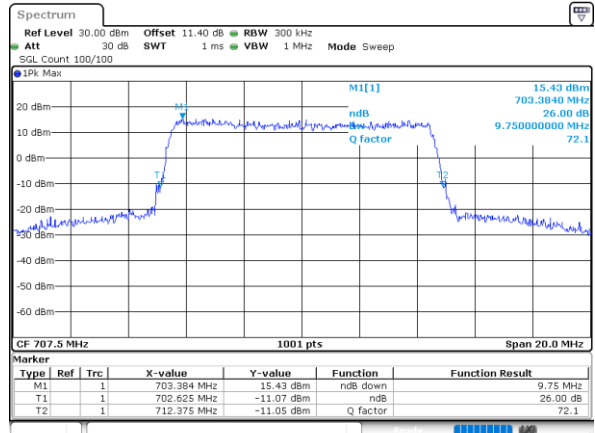
Date: 27_MAR_2024 17:41:18

Middle Channel / 5MHz / 64QAM



Date: 27_MAR_2024 18:11:14

Middle Channel / 10MHz / 64QAM



Date: 27_MAR_2024 18:41:56



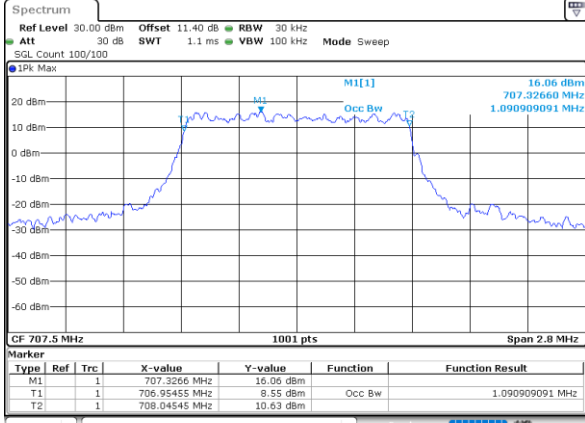
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.70	2.71	4.48	4.49	9.05	9.05	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	-	2.73	-	4.48	-	9.09	-	-	-	-	-



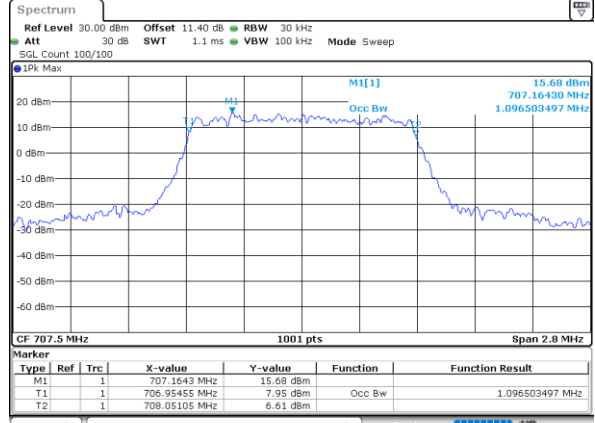
LTE Band 12

Middle Channel / 1.4MHz / QPSK



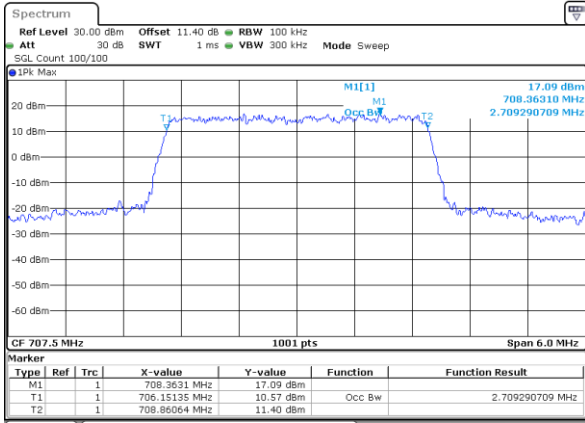
Date: 27_MAR_2024 17:06:12

Middle Channel / 1.4MHz / 16QAM



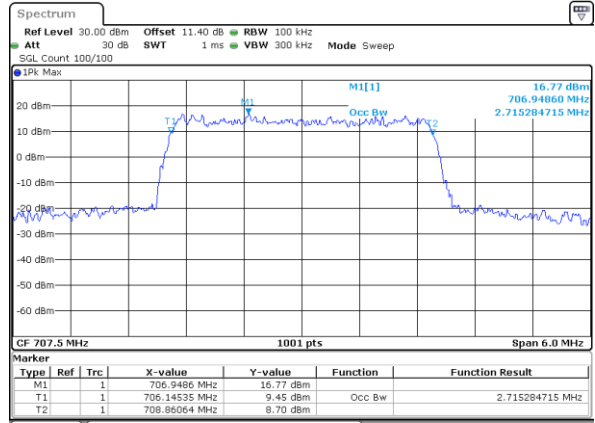
Date: 27_MAR_2024 17:07:10

Middle Channel / 3MHz / QPSK



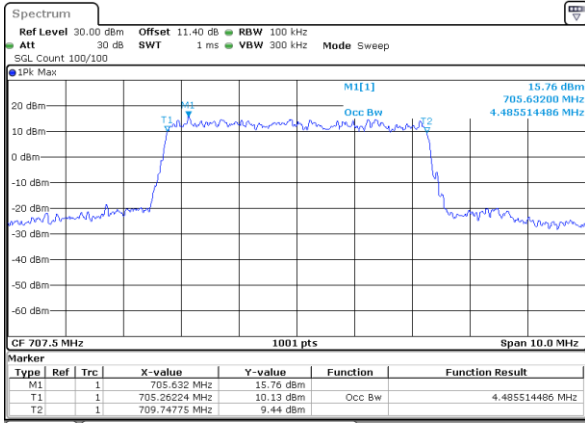
Date: 27_MAR_2024 17:36:47

Middle Channel / 3MHz / 16QAM



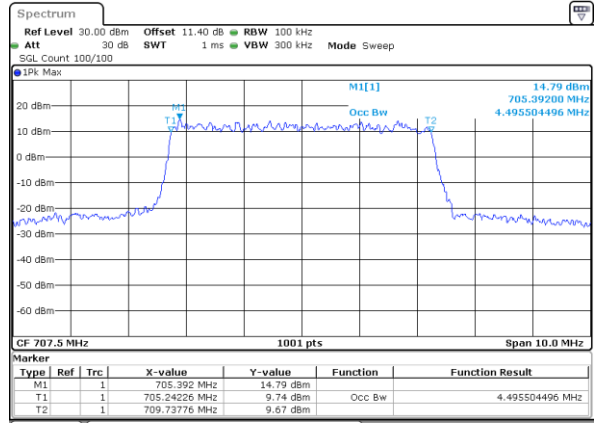
Date: 27_MAR_2024 17:37:47

Middle Channel / 5MHz / QPSK



Date: 27_MAR_2024 18:06:56

Middle Channel / 5MHz / 16QAM

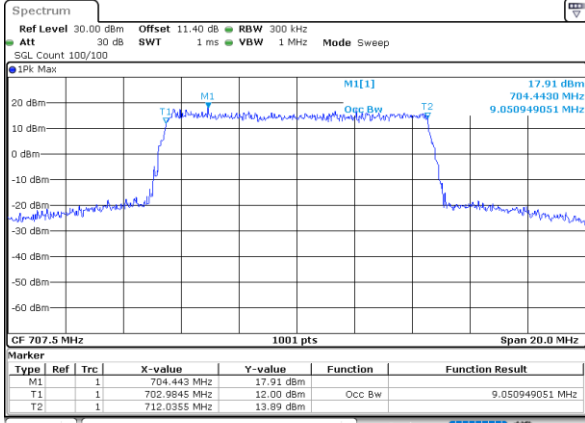


Date: 27_MAR_2024 18:07:47



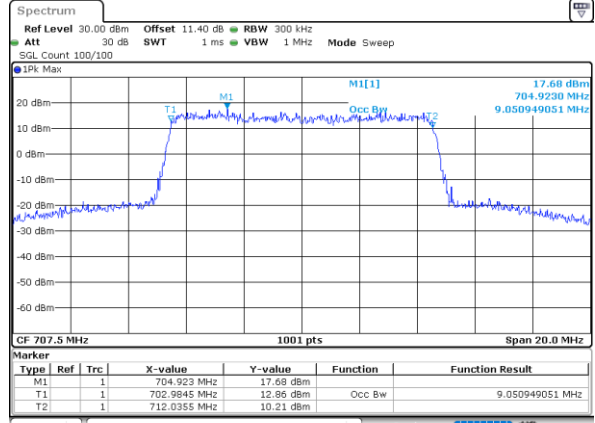
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 27_MAR_2024 18:37:28

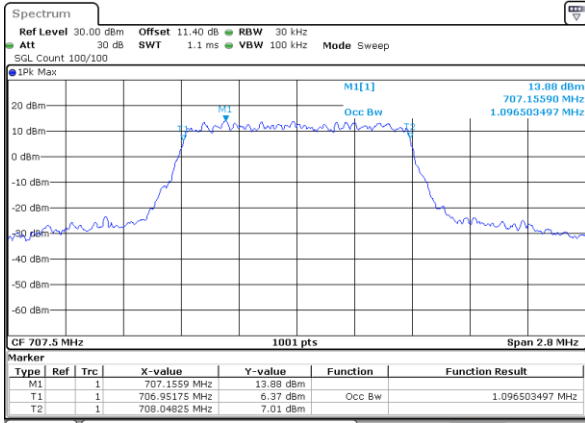
Middle Channel / 10MHz / 16QAM



Date: 27_MAR_2024 18:38:28

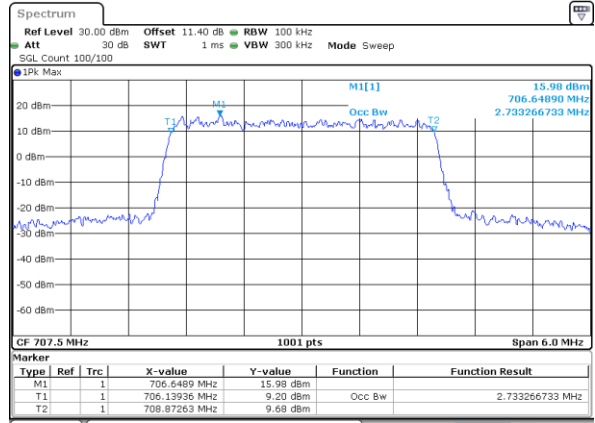
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



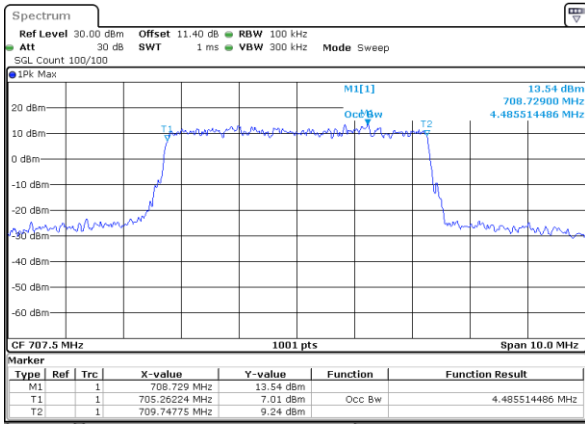
Date: 27_MAR_2024 17:08:07

Middle Channel / 3MHz / 64QAM



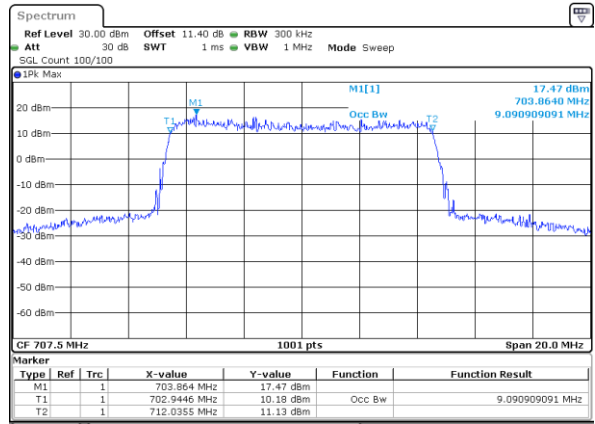
Date: 27_MAR_2024 17:18:17

Middle Channel / 5MHz / 64QAM



Date: 27_MAR_2024 18:08:36

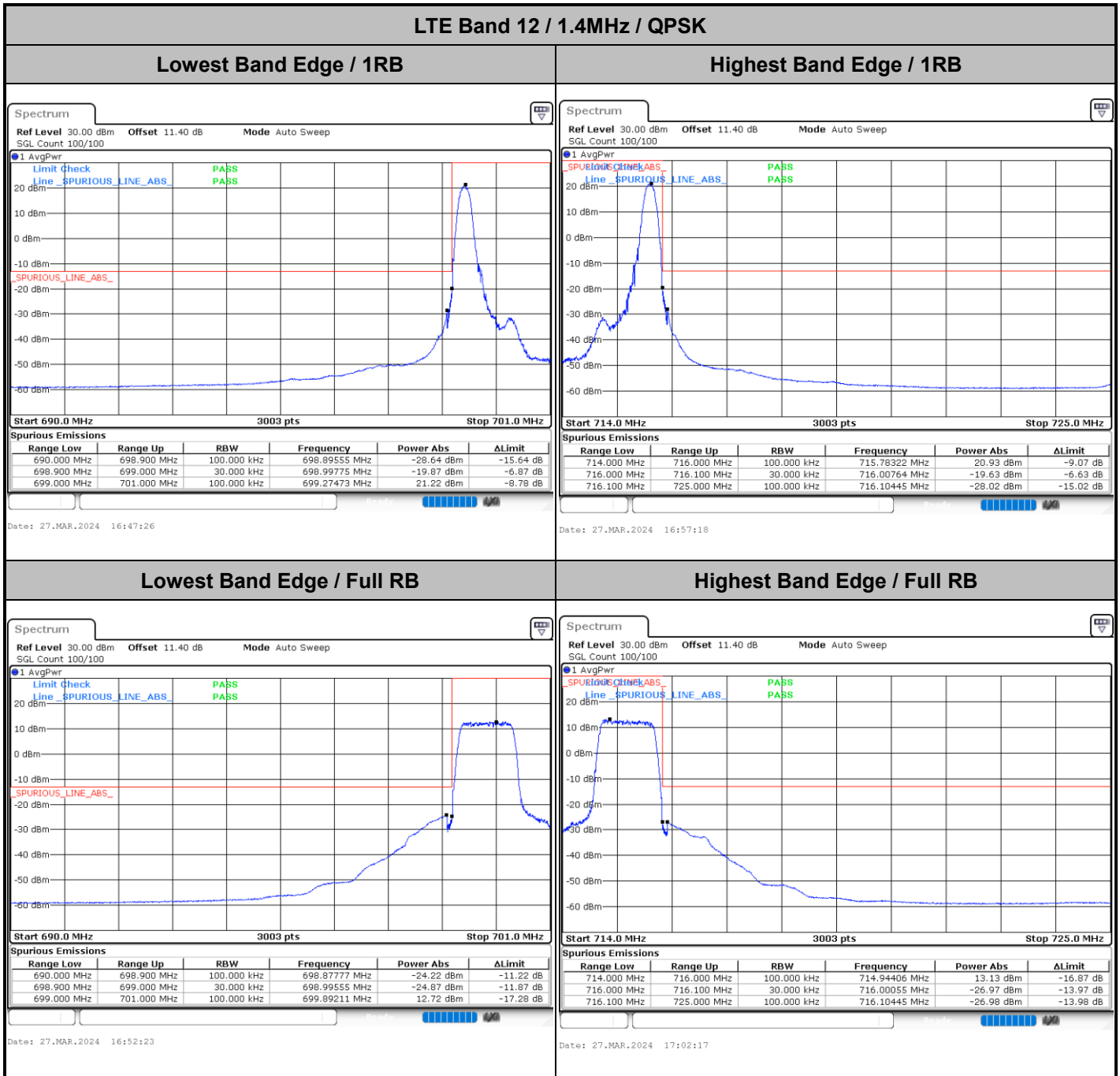
Middle Channel / 10MHz / 64QAM



Date: 27_MAR_2024 18:13:13



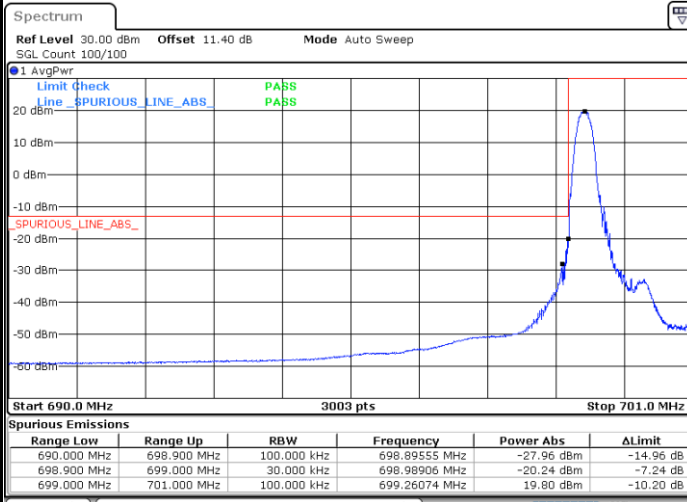
Conducted Band Edge





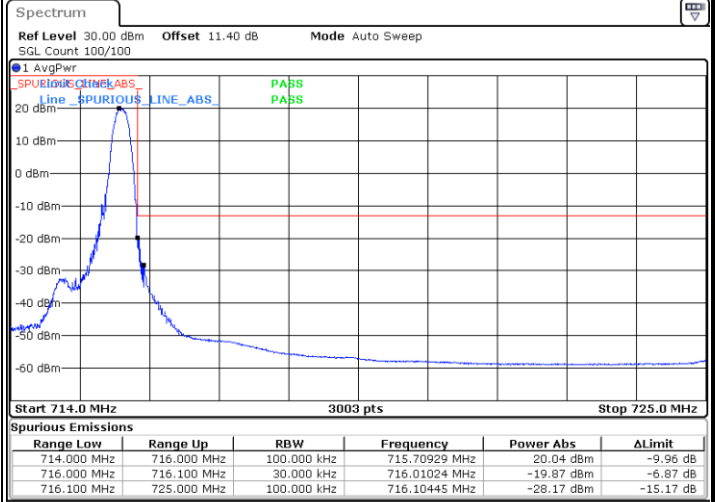
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



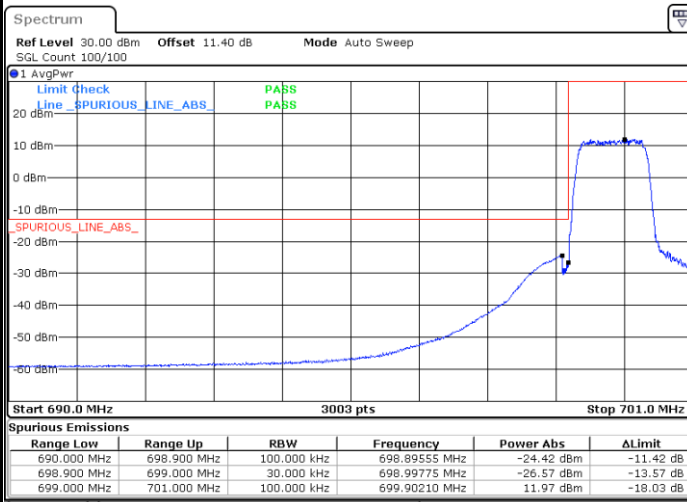
Date: 27.MAR.2024 16:49:02

Highest Band Edge / 1 RB



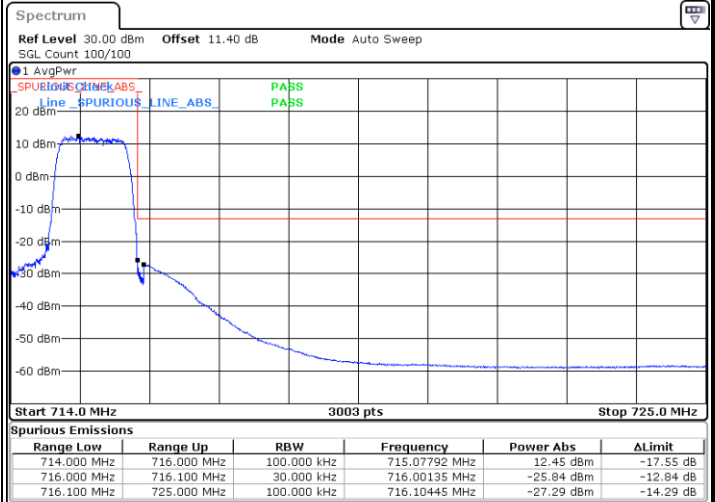
Date: 27.MAR.2024 16:58:57

Lowest Band Edge / Full RB



Date: 27.MAR.2024 16:54:07

Highest Band Edge / Full RB

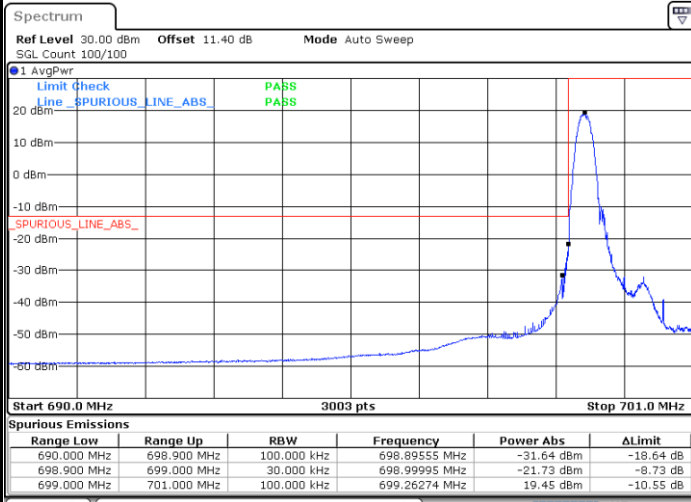


Date: 27.MAR.2024 17:03:47



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



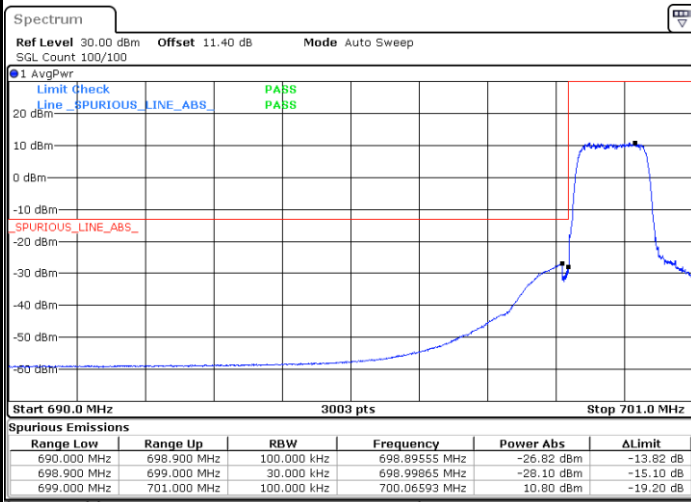
Date: 27.MAR.2024 16:50:45

Highest Band Edge / 1 RB



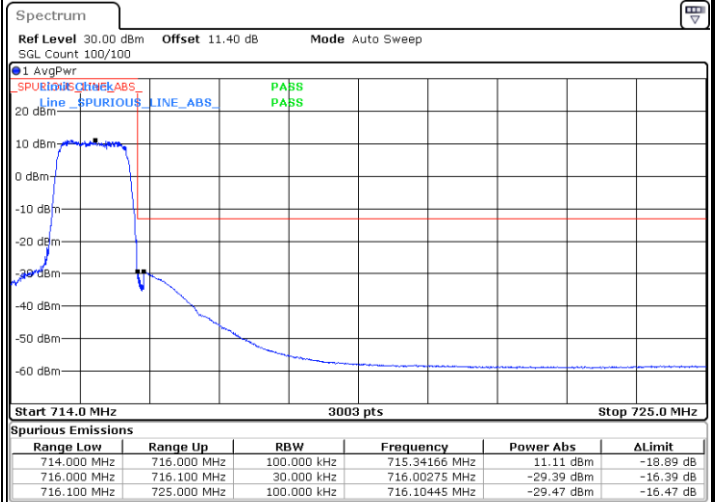
Date: 27.MAR.2024 17:00:38

Lowest Band Edge / Full RB



Date: 27.MAR.2024 16:55:42

Highest Band Edge / Full RB

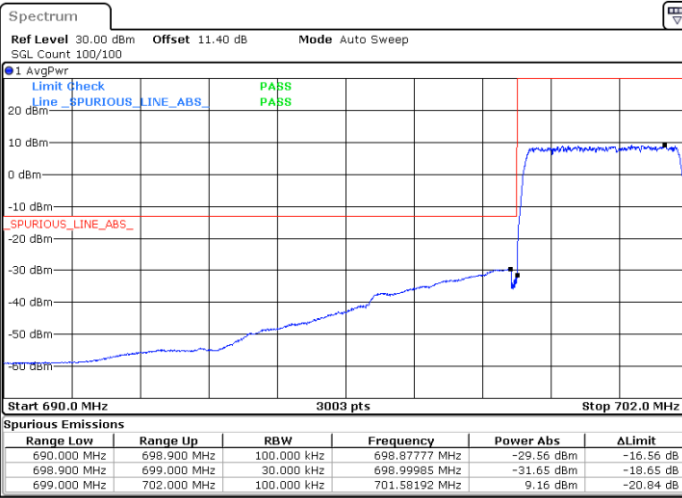


Date: 27.MAR.2024 17:05:19



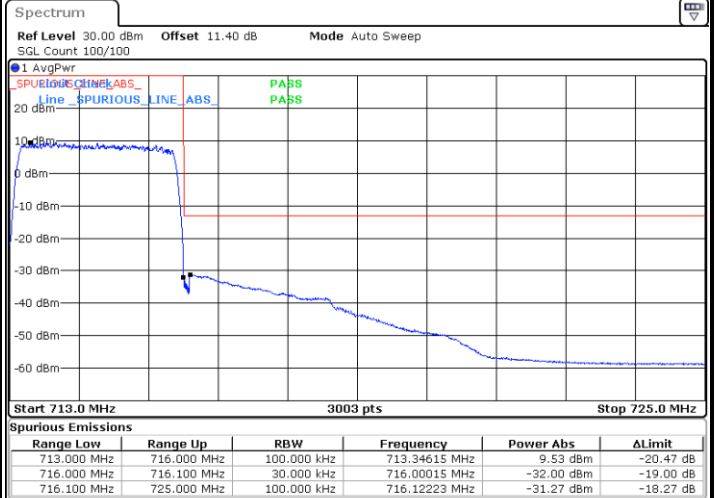
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 27.MAR.2024 17:22:29

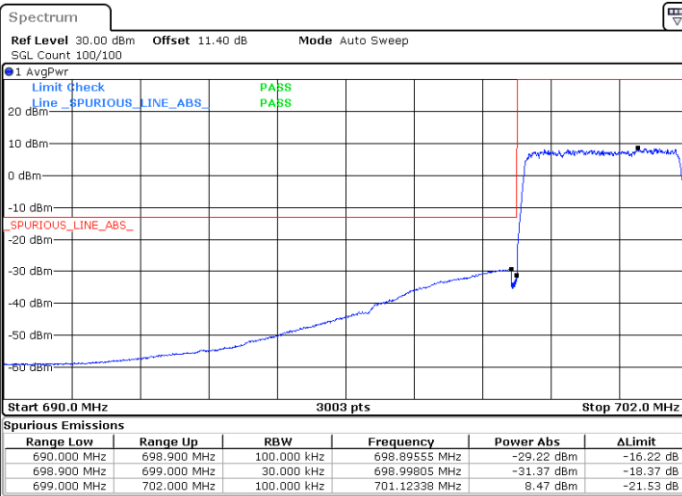
Highest Band Edge / Full RB



Date: 27.MAR.2024 17:32:33

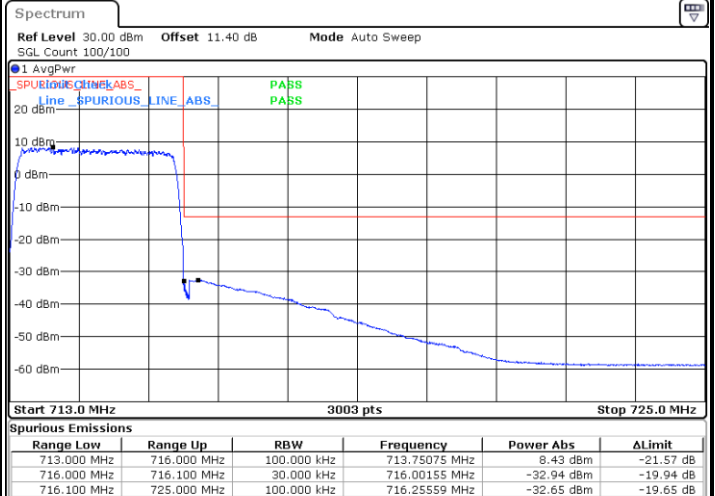
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / Full RB

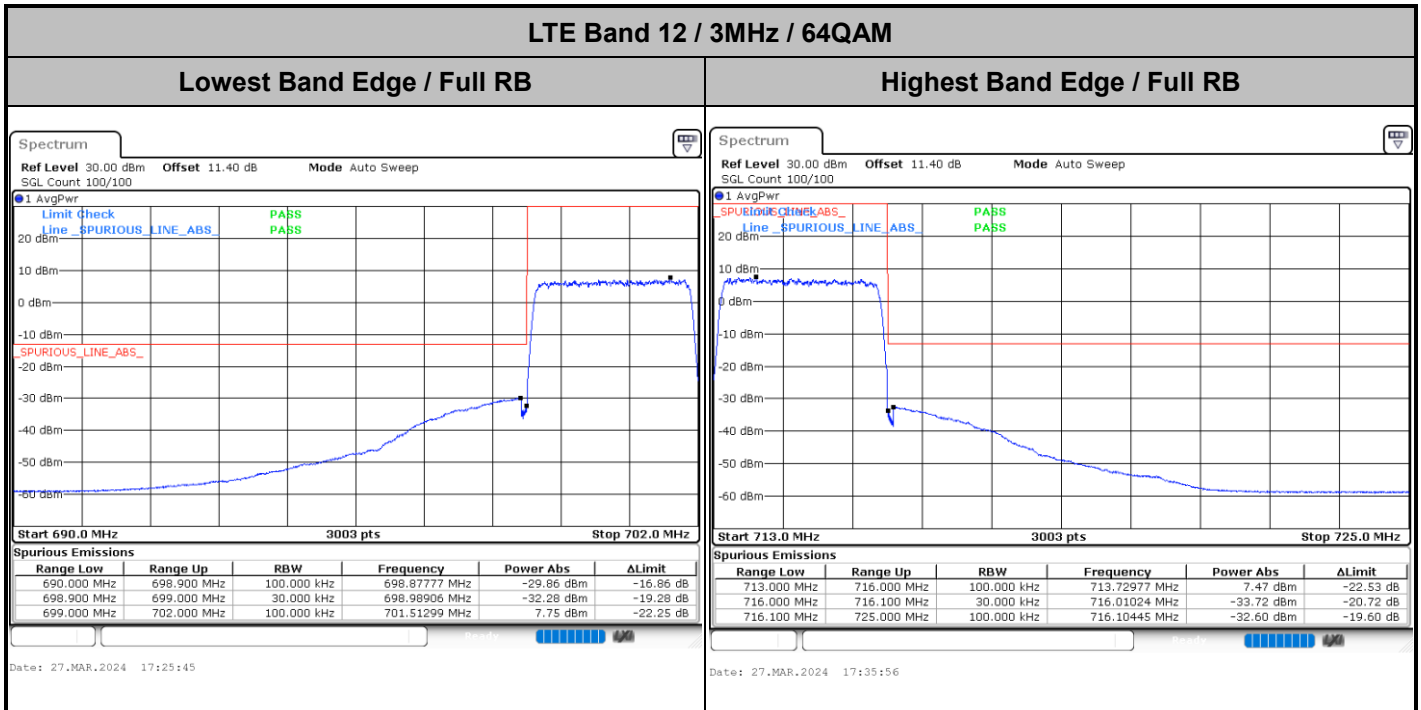


Date: 27.MAR.2024 17:24:07

Highest Band Edge / Full RB



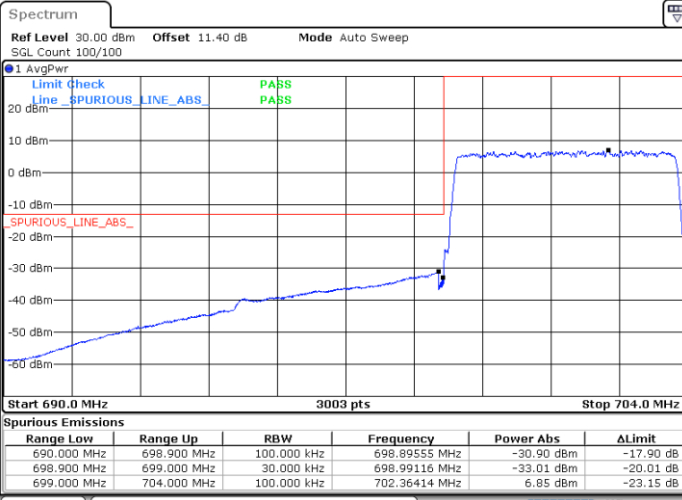
Date: 27.MAR.2024 17:34:17



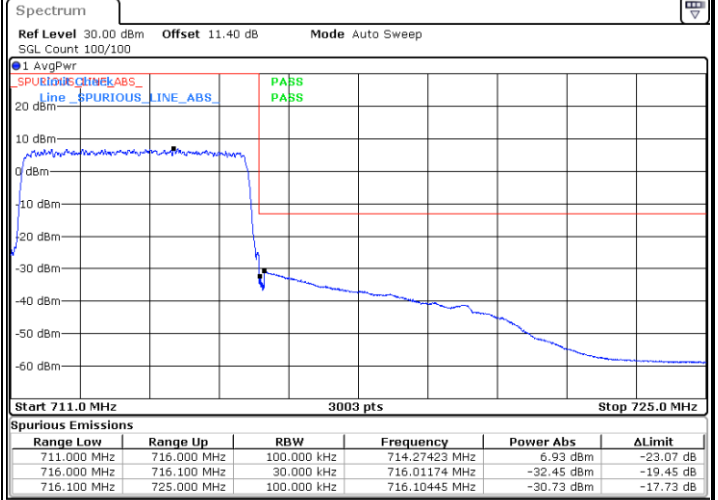


LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB

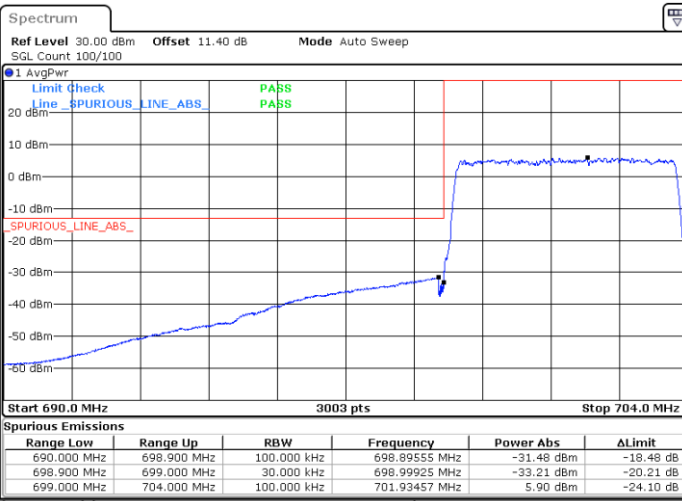


Highest Band Edge / Full RB

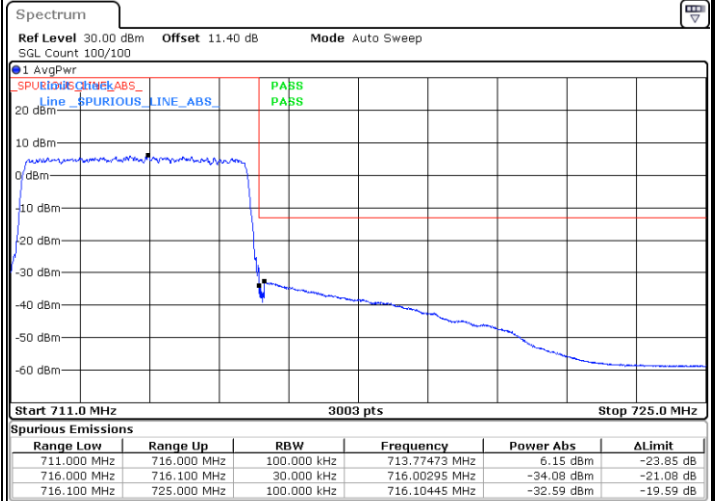


LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

