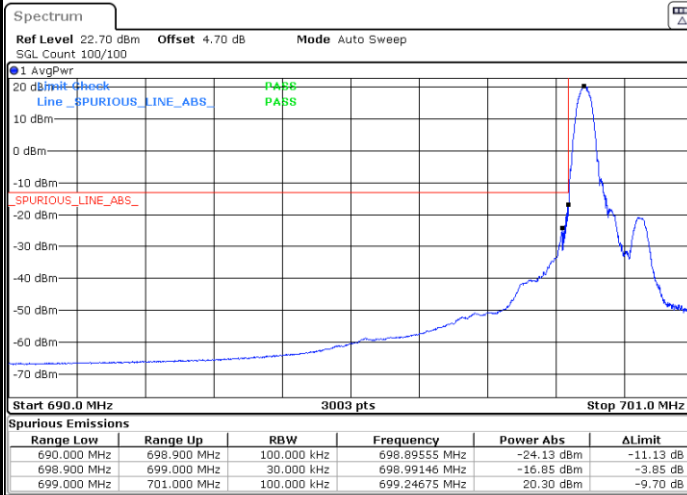




Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



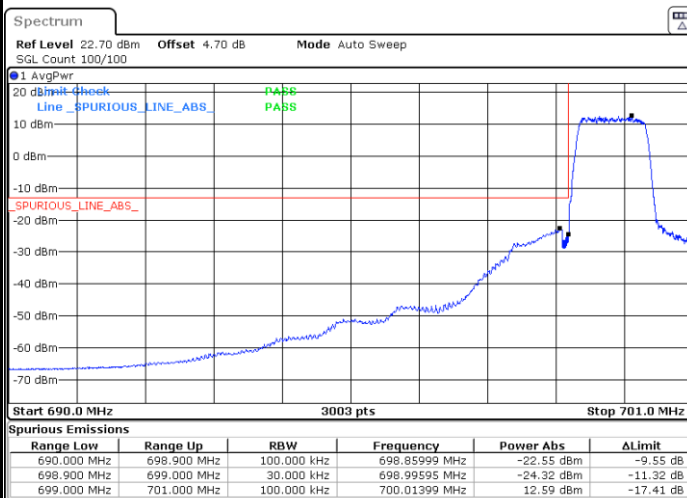
Date: 23.JAN.2024 16:03:43

Highest Band Edge / 1RB



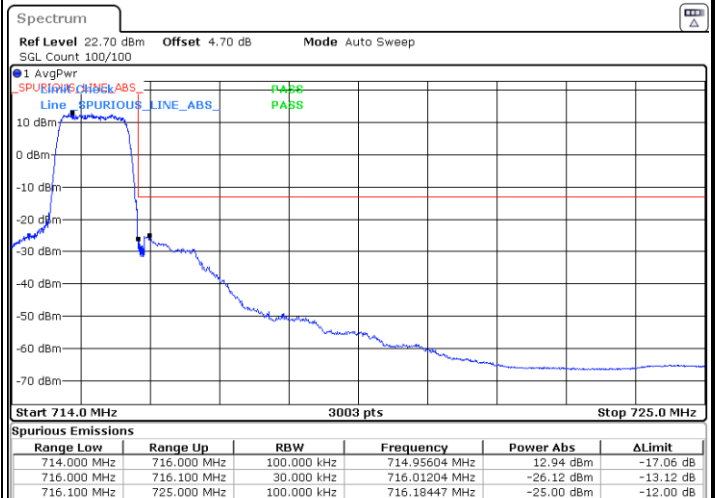
Date: 23.JAN.2024 16:11:51

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:08:17

Highest Band Edge / Full RB

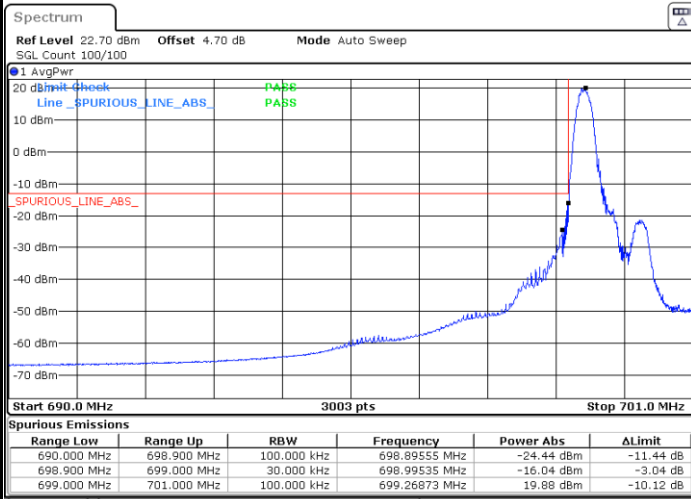


Date: 23.JAN.2024 16:16:24



LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



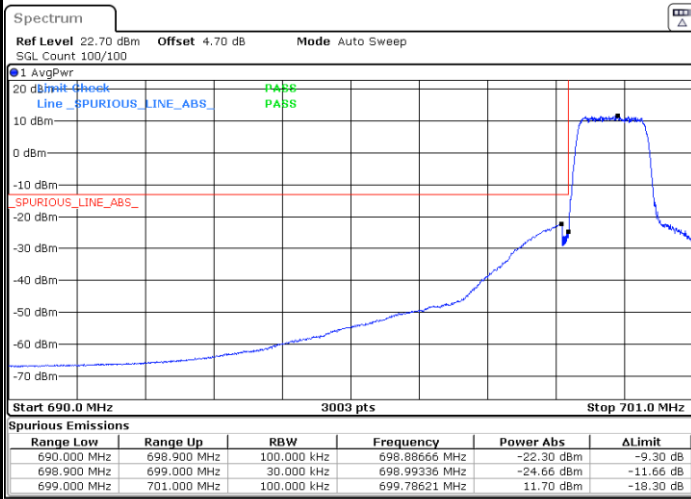
Date: 23.JAN.2024 16:04:39

Highest Band Edge / 1 RB



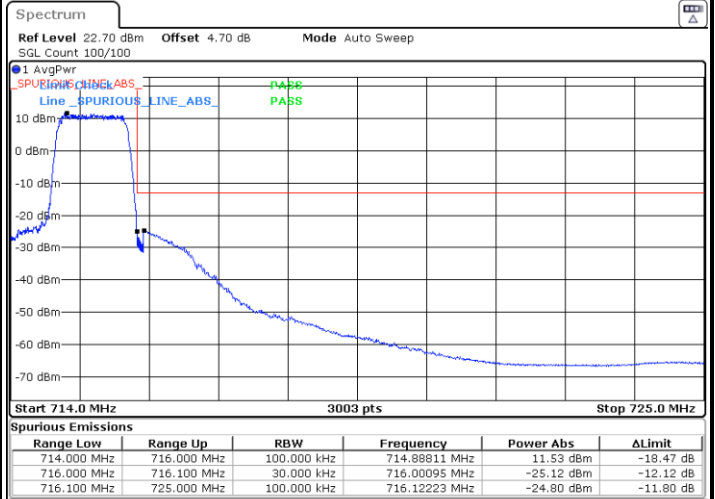
Date: 23.JAN.2024 16:12:46

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:07:22

Highest Band Edge / Full RB

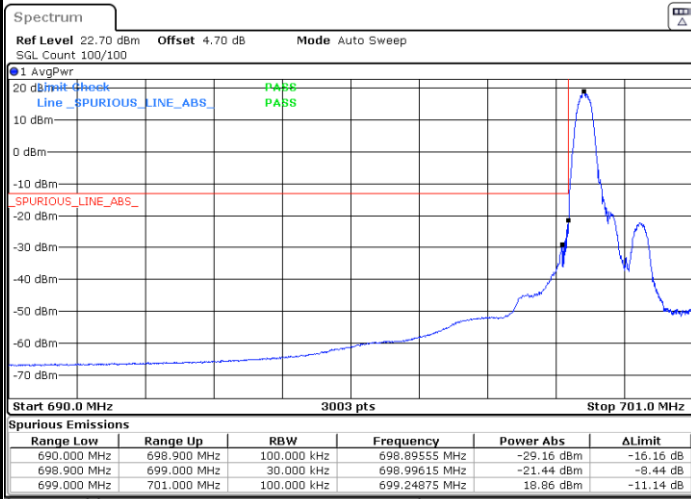


Date: 23.JAN.2024 16:15:30



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



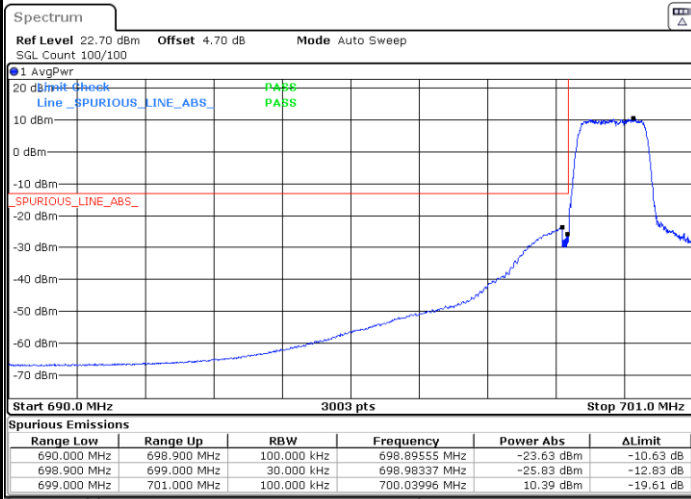
Date: 23.JAN.2024 16:05:32

Highest Band Edge / 1 RB



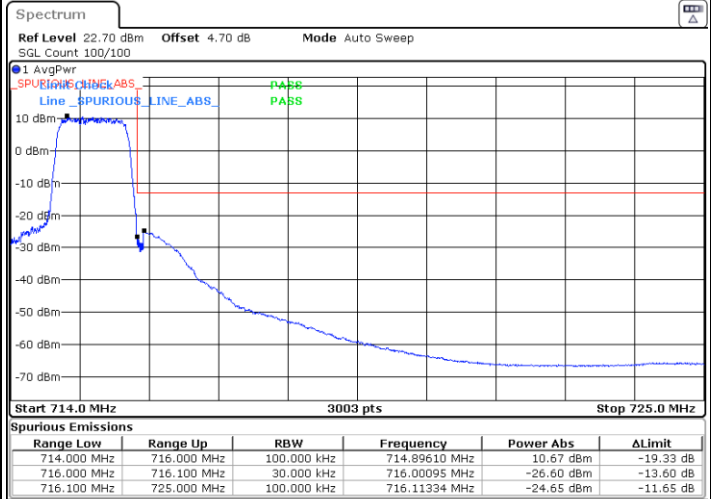
Date: 23.JAN.2024 16:13:41

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:06:28

Highest Band Edge / Full RB

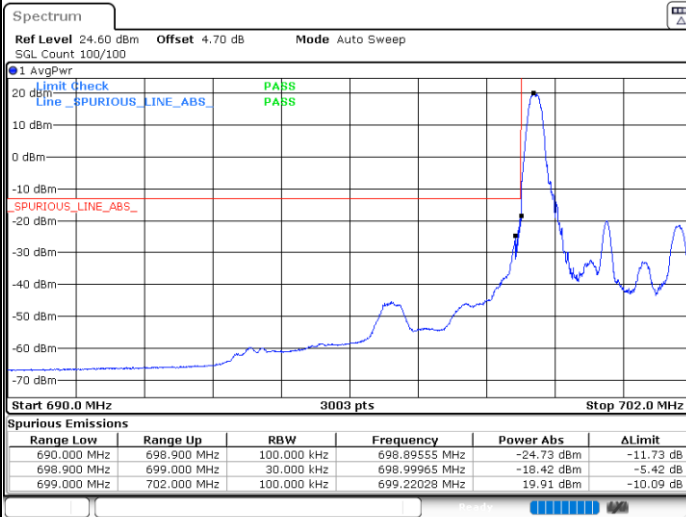


Date: 23.JAN.2024 16:14:35



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



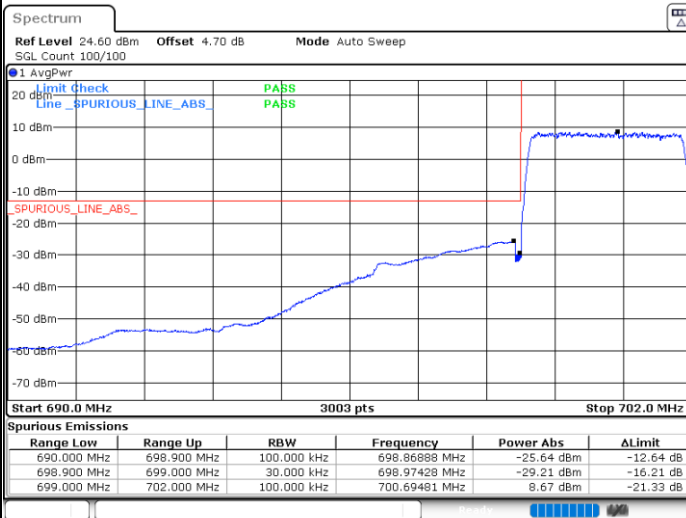
Date: 23.JAN.2024 16:18:41

Highest Band Edge / 1 RB



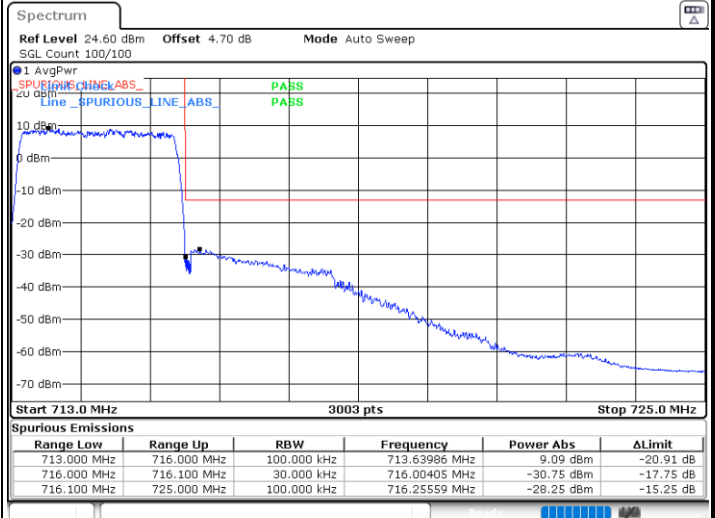
Date: 23.JAN.2024 16:26:49

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:23:15

Highest Band Edge / Full RB

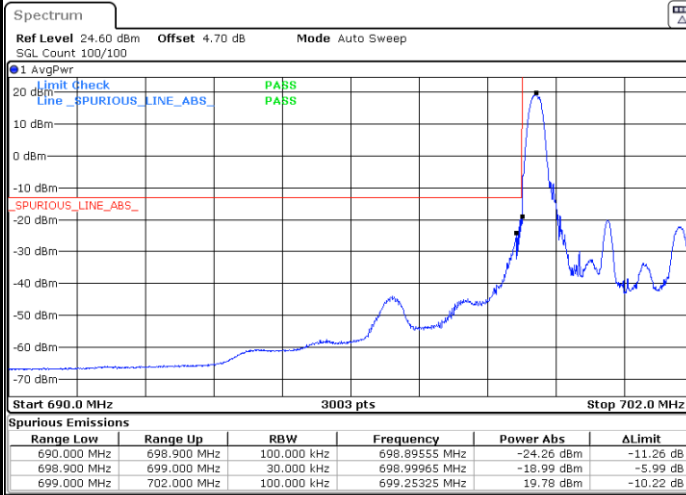


Date: 23.JAN.2024 16:31:23



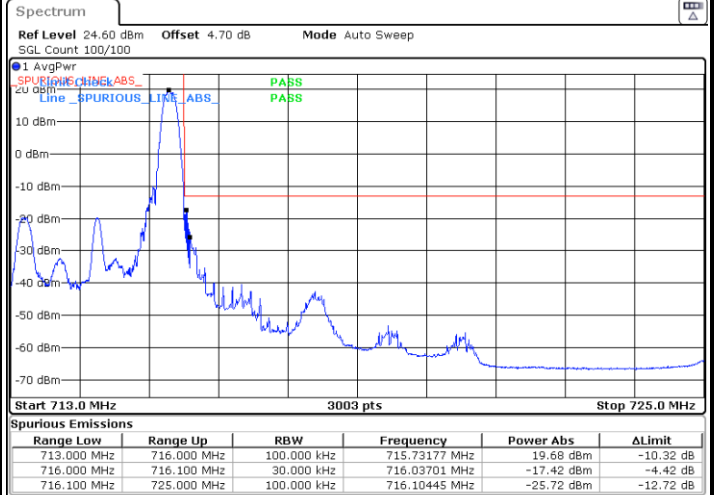
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



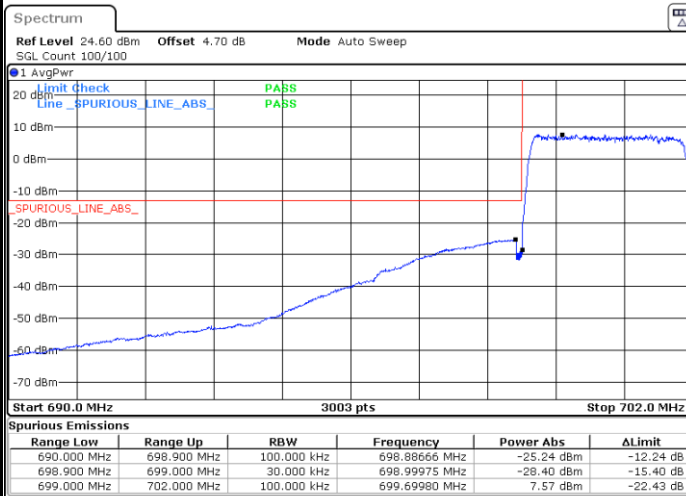
Date: 23.JAN.2024 16:19:36

Highest Band Edge / 1 RB



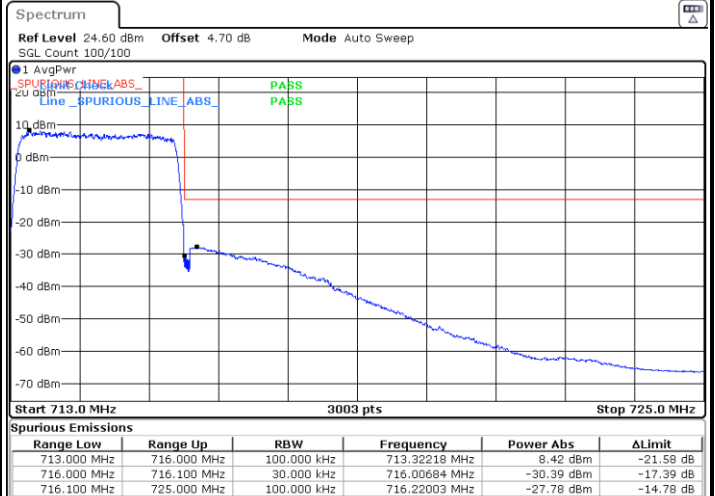
Date: 23.JAN.2024 16:27:44

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:22:20

Highest Band Edge / Full RB

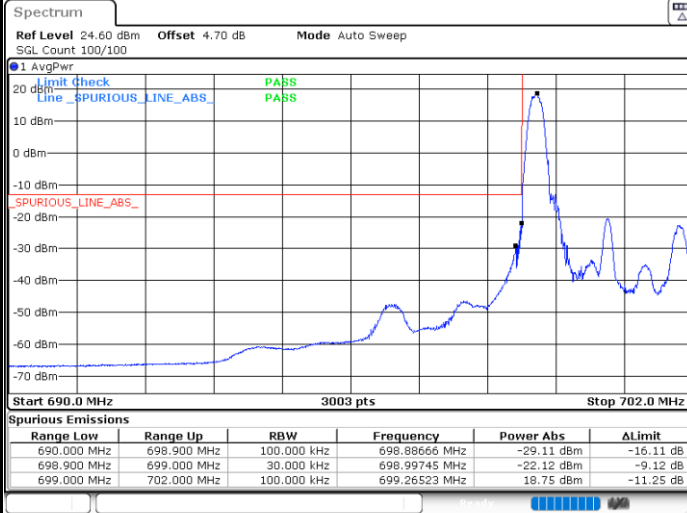


Date: 23.JAN.2024 16:30:29



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



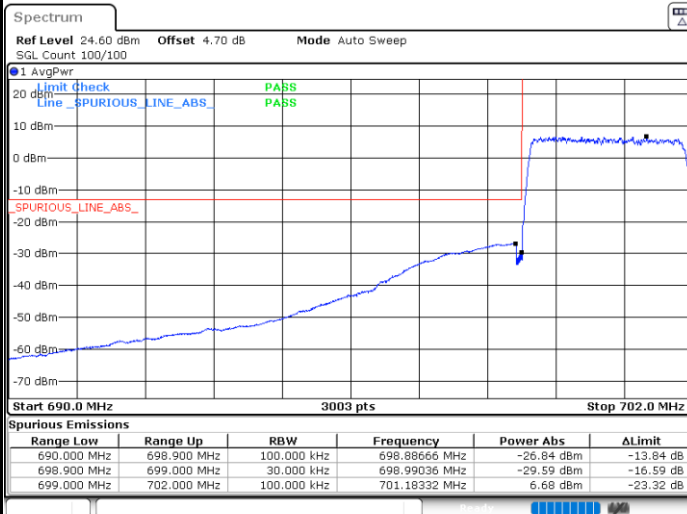
Date: 23.JAN.2024 16:20:31

Highest Band Edge / 1 RB



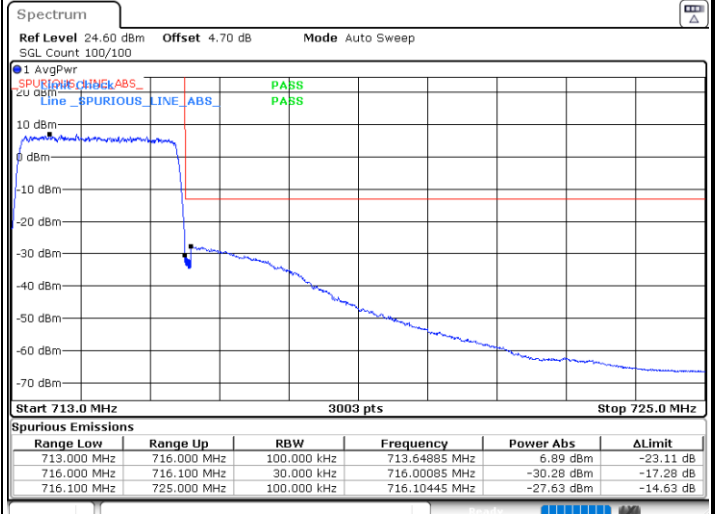
Date: 23.JAN.2024 16:28:39

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:21:26

Highest Band Edge / Full RB

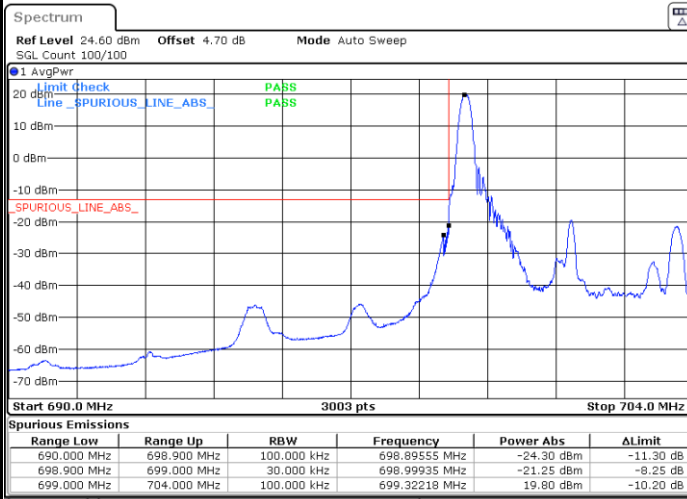


Date: 23.JAN.2024 16:29:34



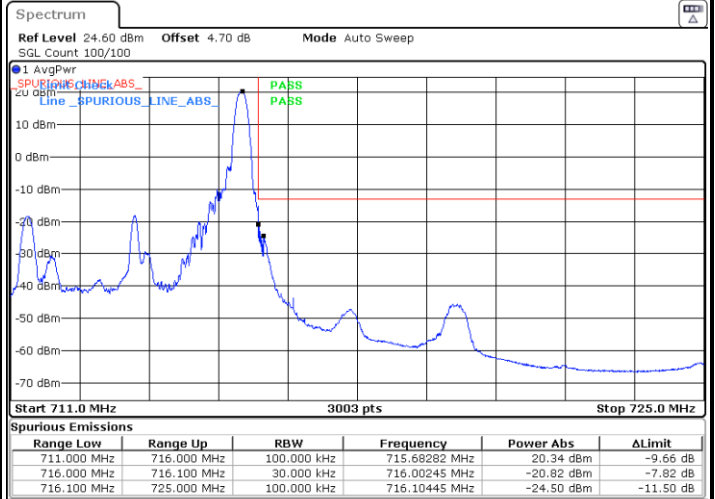
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



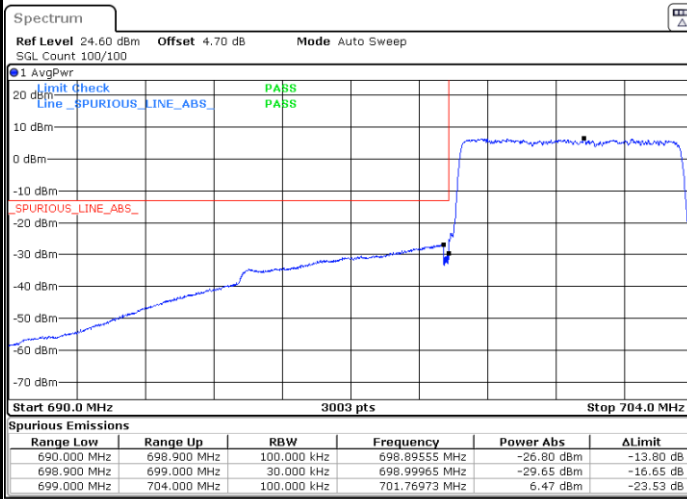
Date: 23.JAN.2024 16:33:39

Highest Band Edge / 1 RB



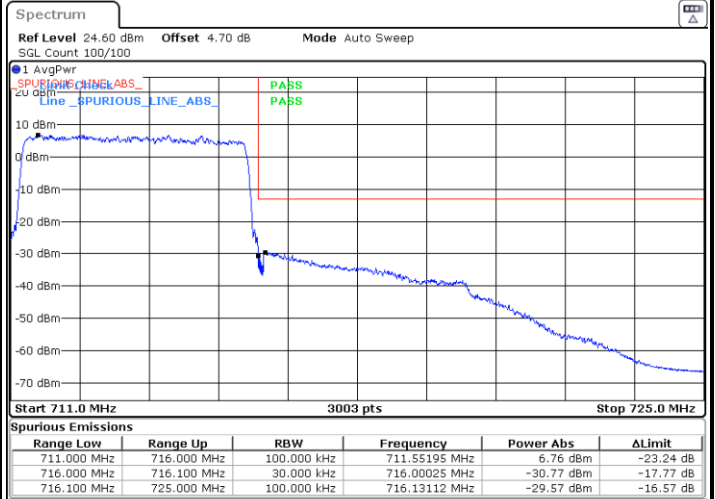
Date: 23.JAN.2024 16:41:46

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:38:12

Highest Band Edge / Full RB

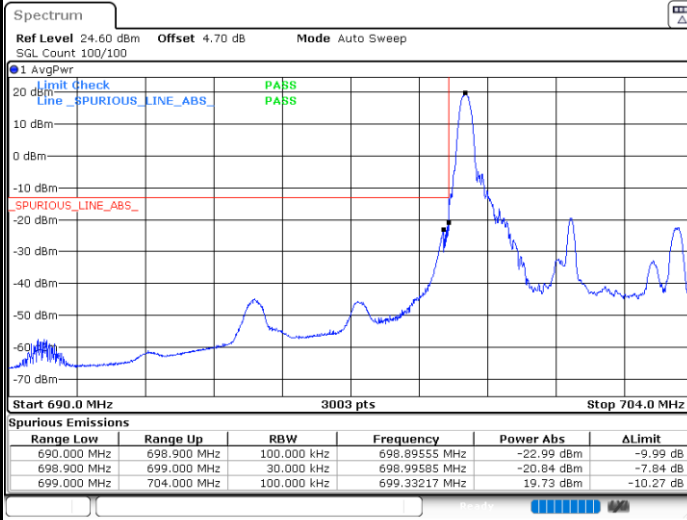


Date: 23.JAN.2024 16:46:22



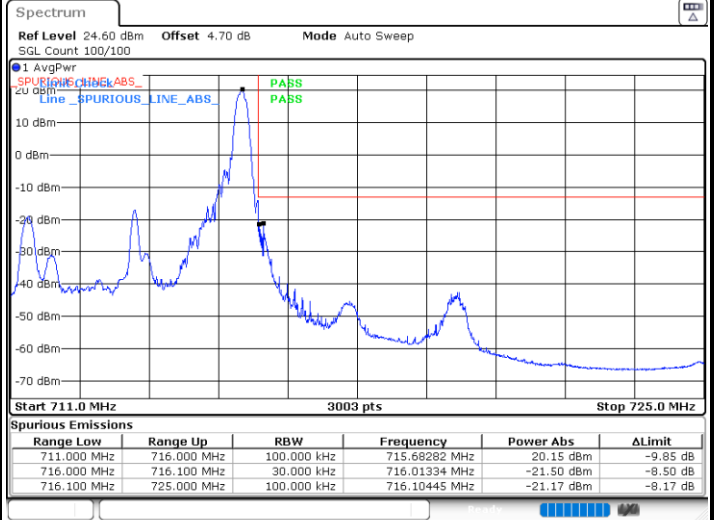
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



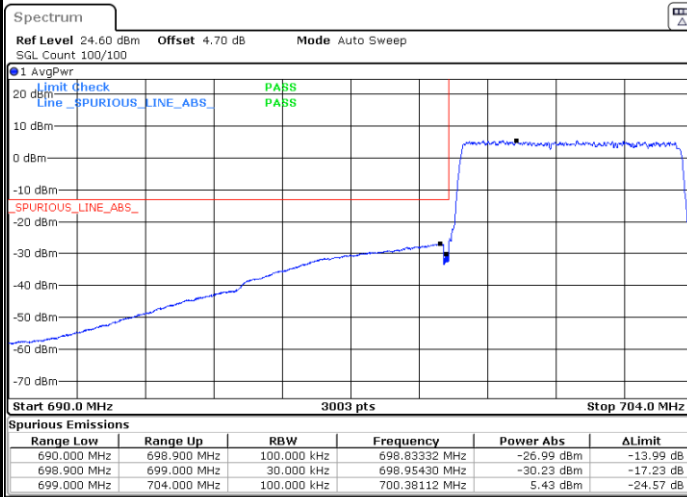
Date: 23.JAN.2024 16:34:33

Highest Band Edge / 1 RB



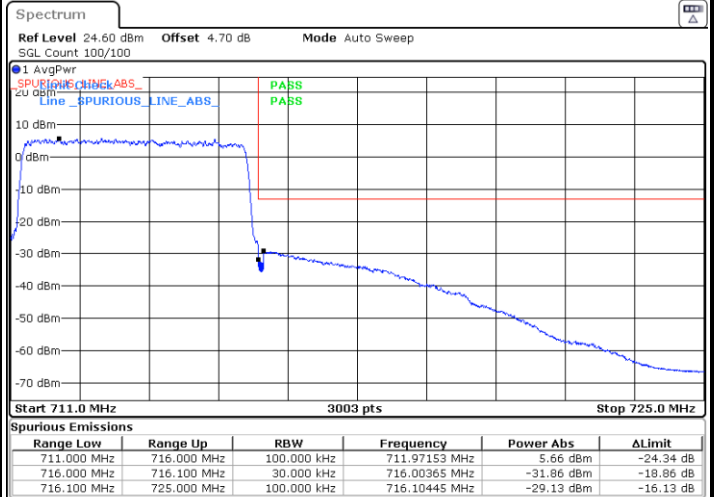
Date: 23.JAN.2024 16:42:42

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:37:18

Highest Band Edge / Full RB

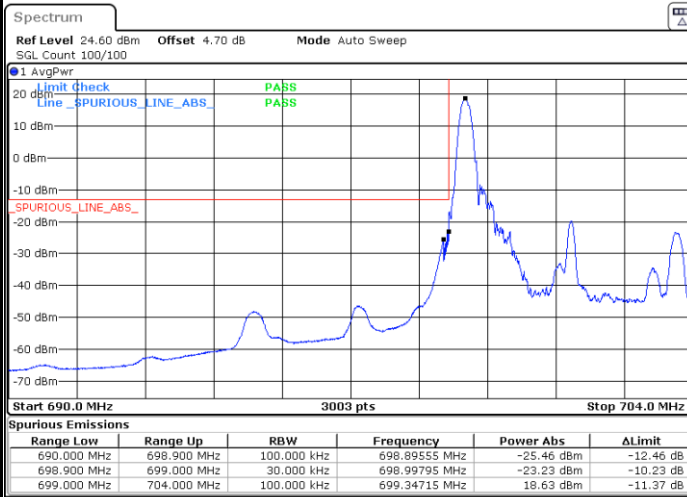


Date: 23.JAN.2024 16:45:27



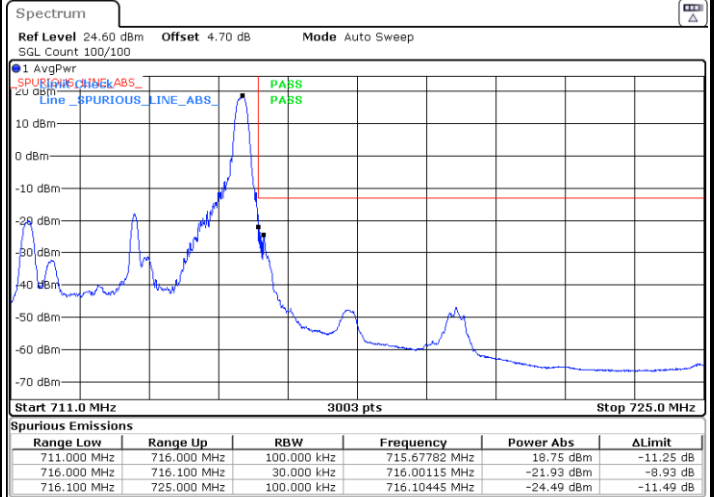
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



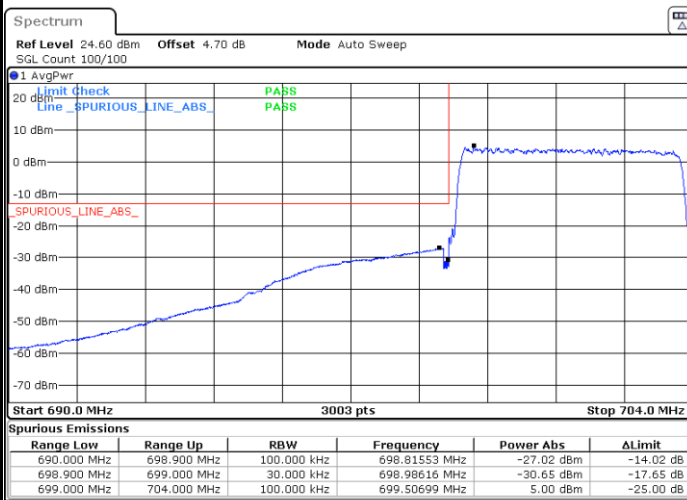
Date: 23.JAN.2024 16:35:28

Highest Band Edge / 1 RB



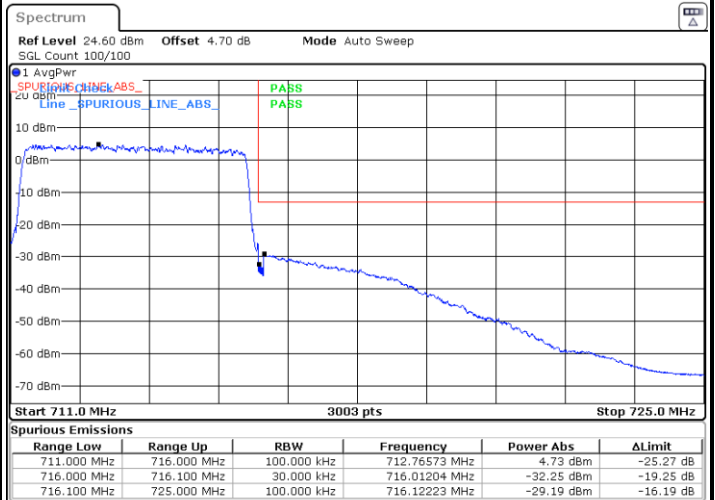
Date: 23.JAN.2024 16:43:37

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:36:23

Highest Band Edge / Full RB

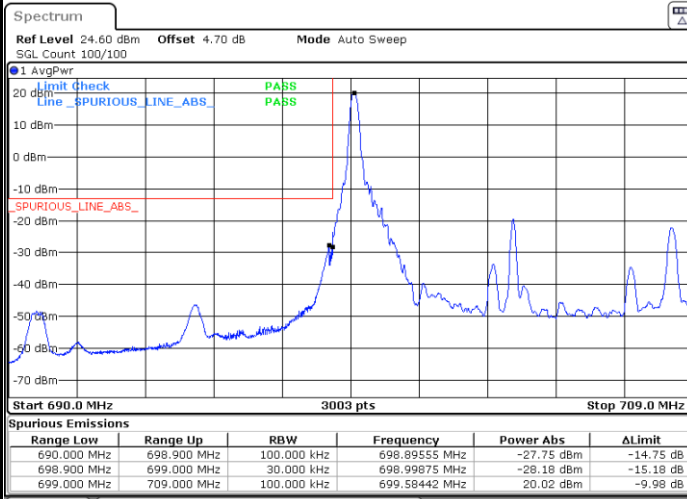


Date: 23.JAN.2024 16:44:32



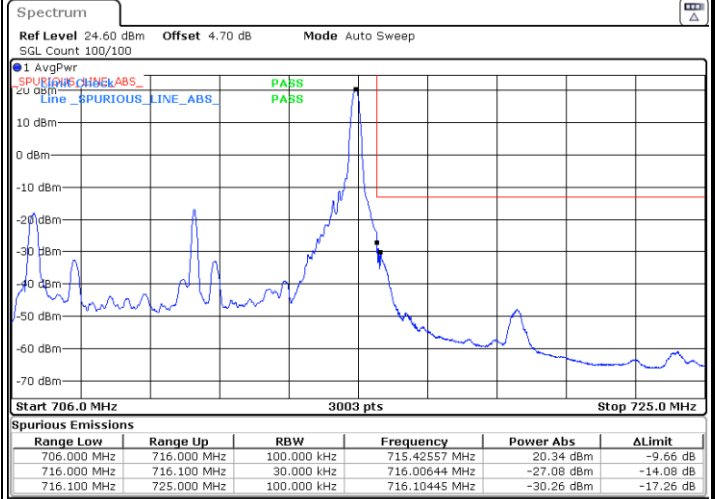
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



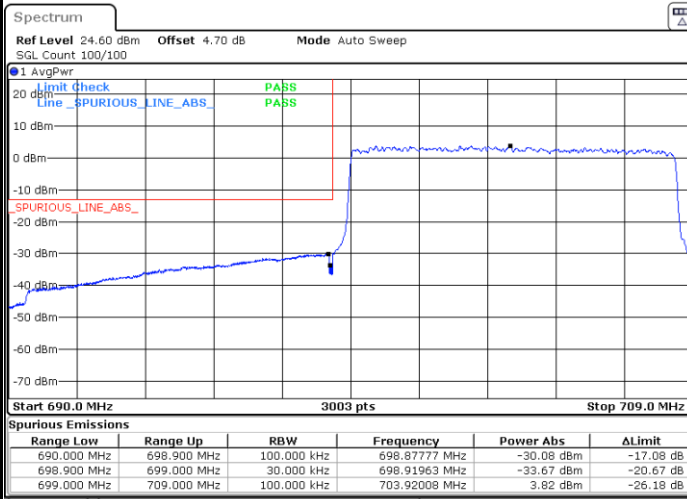
Date: 23.JAN.2024 16:48:37

Highest Band Edge / 1 RB



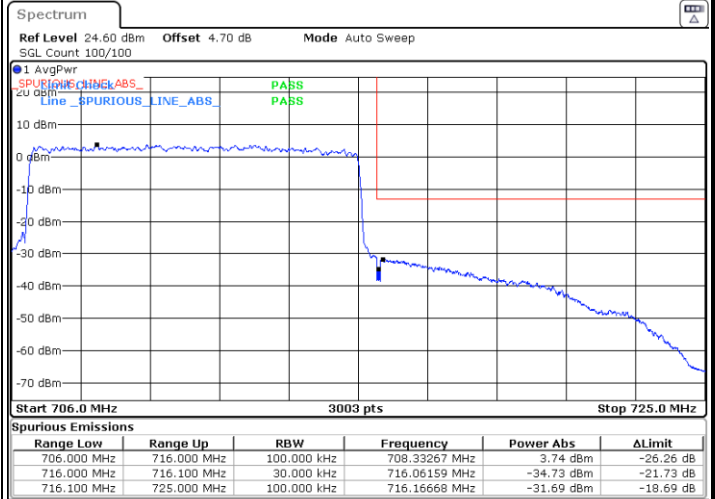
Date: 23.JAN.2024 16:56:45

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:53:11

Highest Band Edge / Full RB

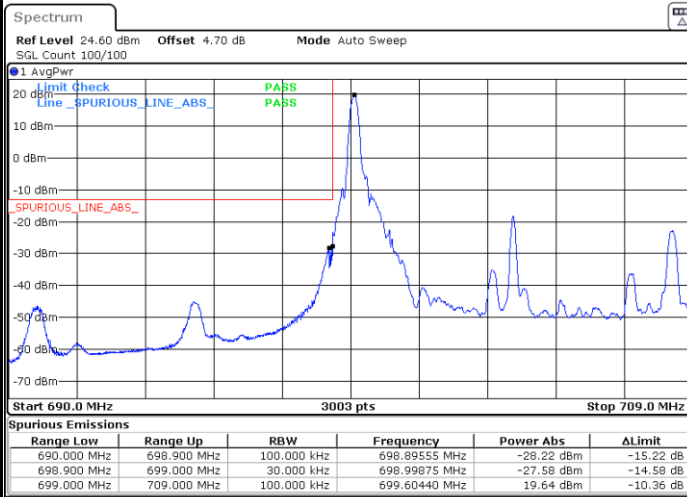


Date: 23.JAN.2024 17:01:20



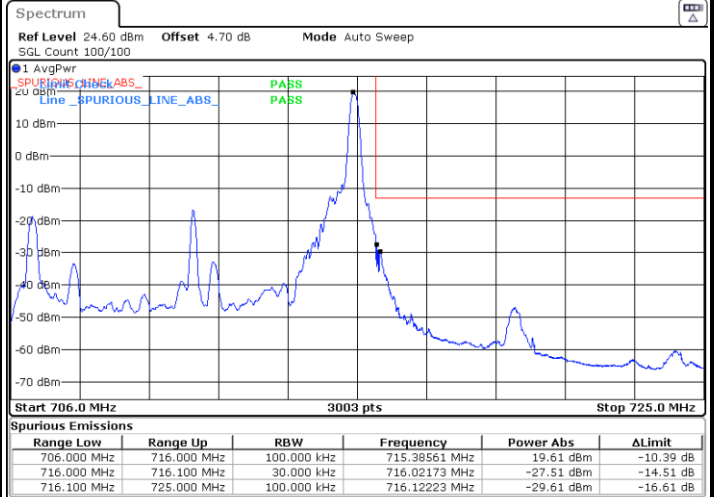
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



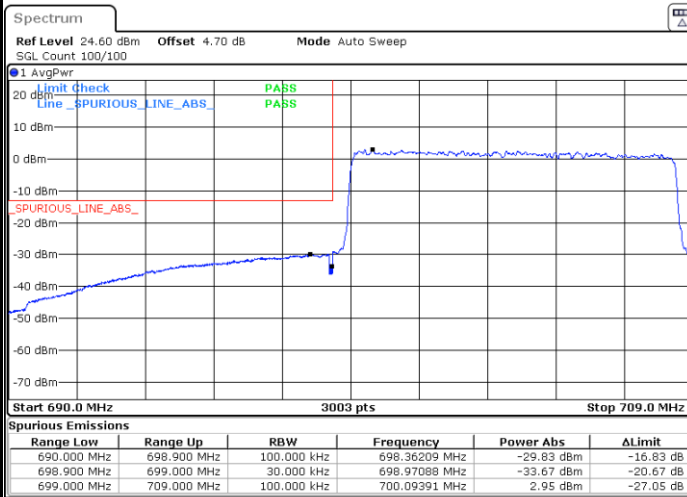
Date: 23.JAN.2024 16:49:32

Highest Band Edge / 1 RB



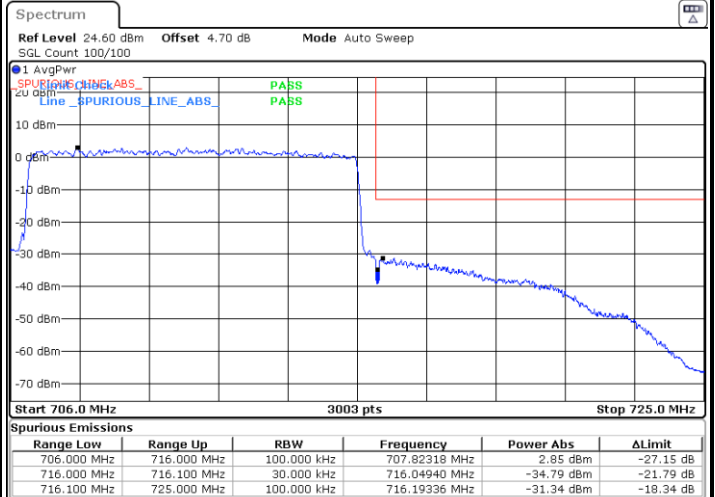
Date: 23.JAN.2024 16:57:40

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:52:16

Highest Band Edge / Full RB

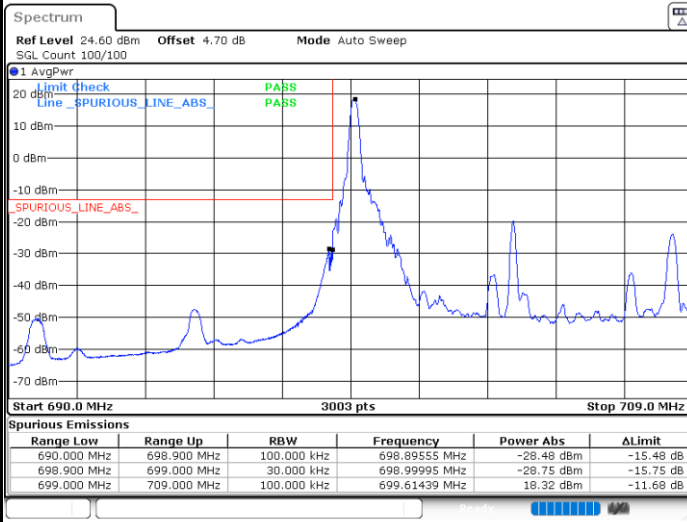


Date: 23.JAN.2024 17:00:25



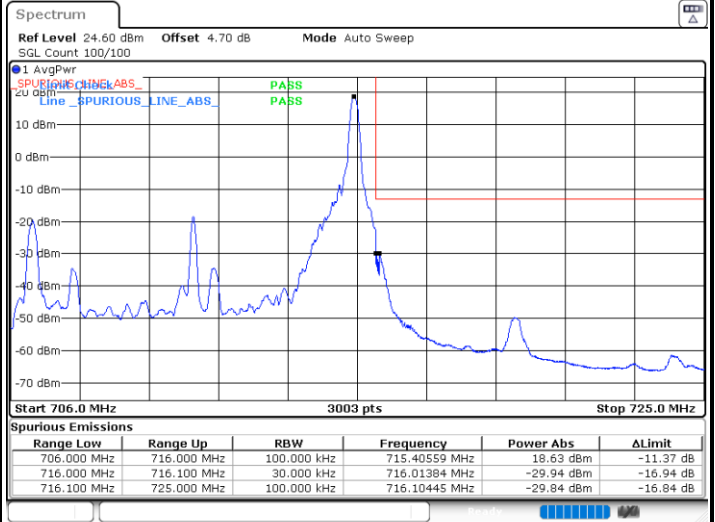
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



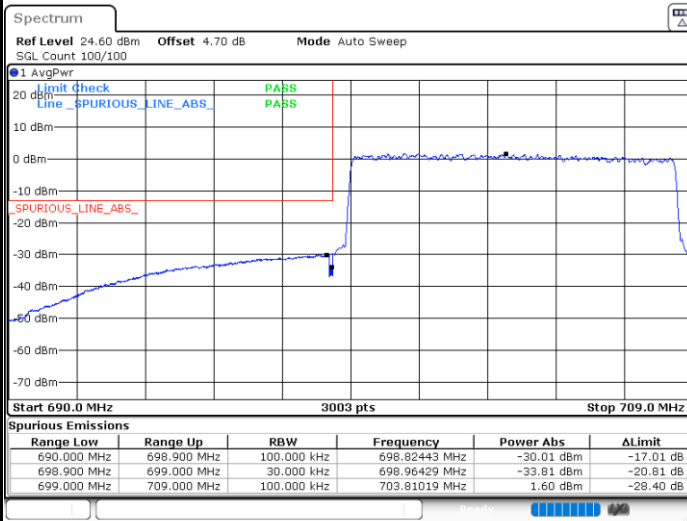
Date: 23.JAN.2024 16:50:26

Highest Band Edge / 1 RB



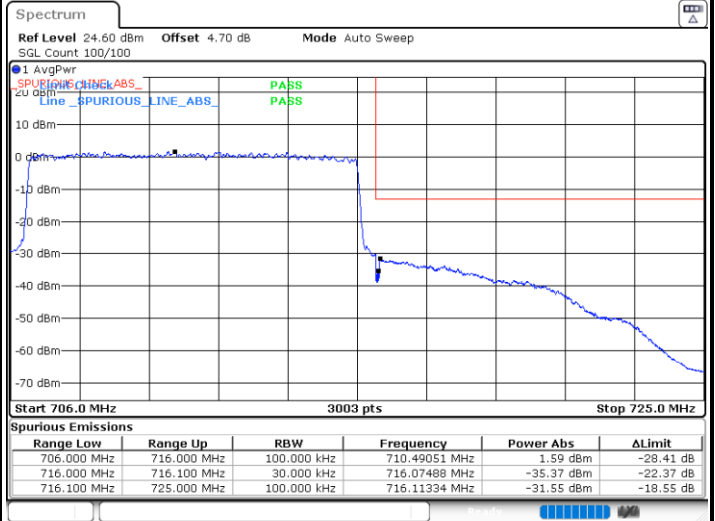
Date: 23.JAN.2024 16:58:35

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:51:21

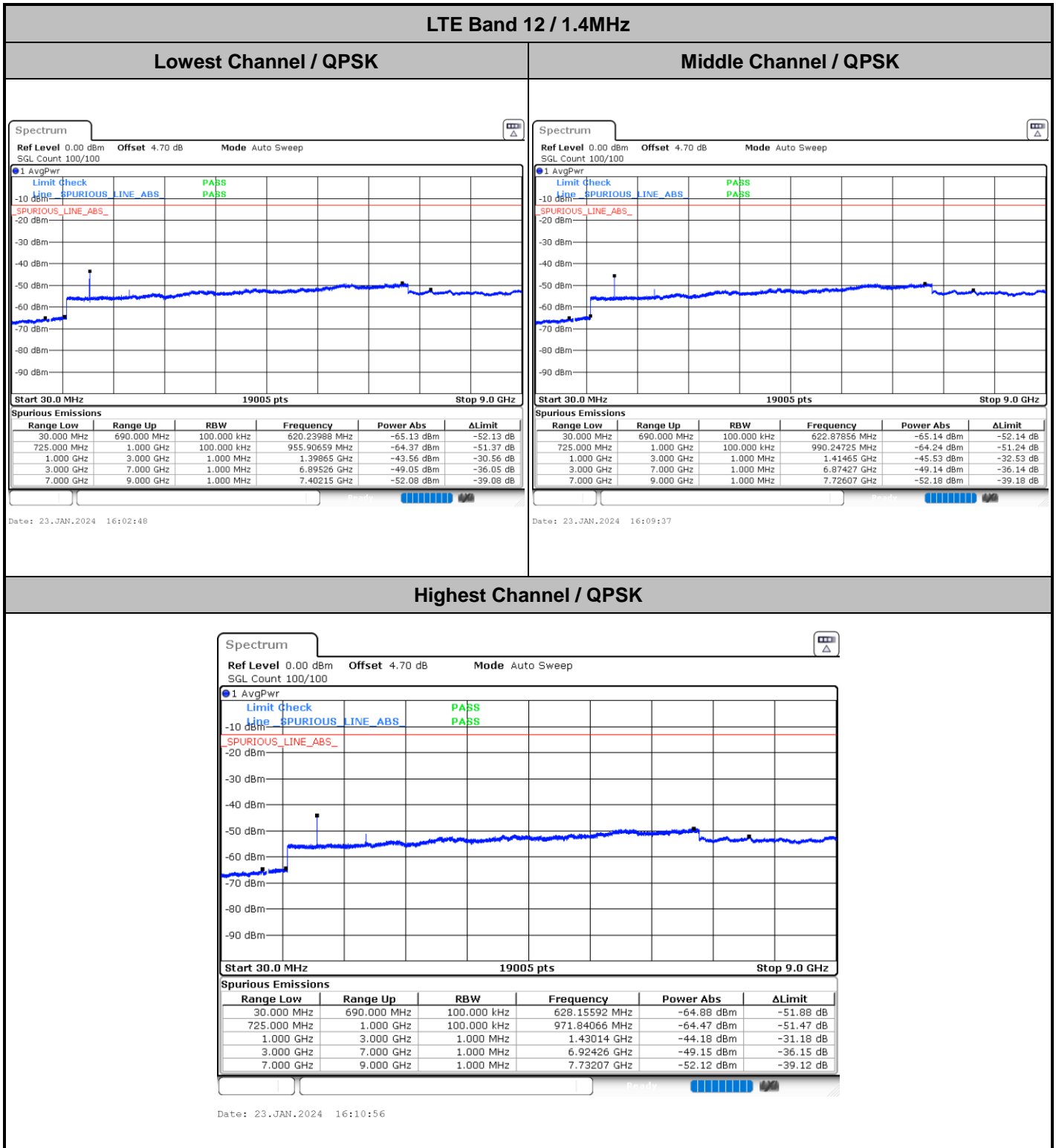
Highest Band Edge / Full RB



Date: 23.JAN.2024 16:59:30



Conducted Spurious Emission

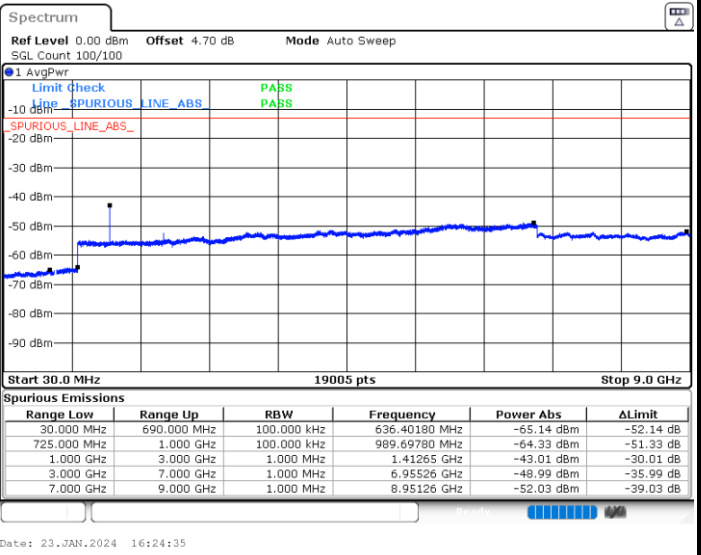
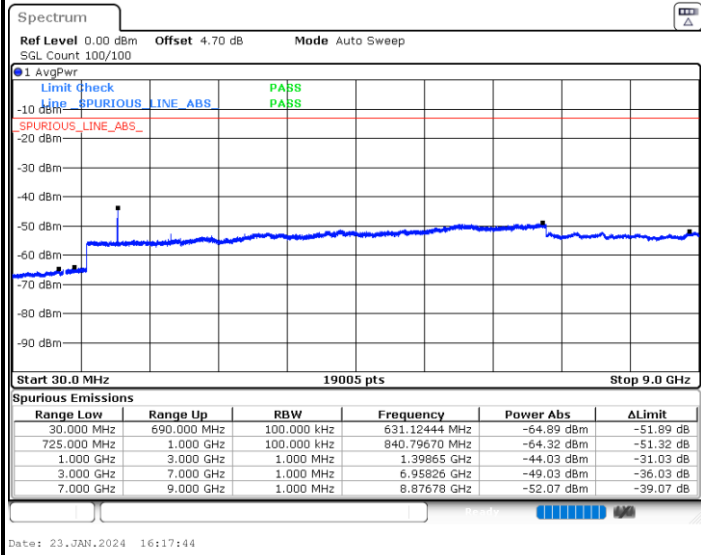




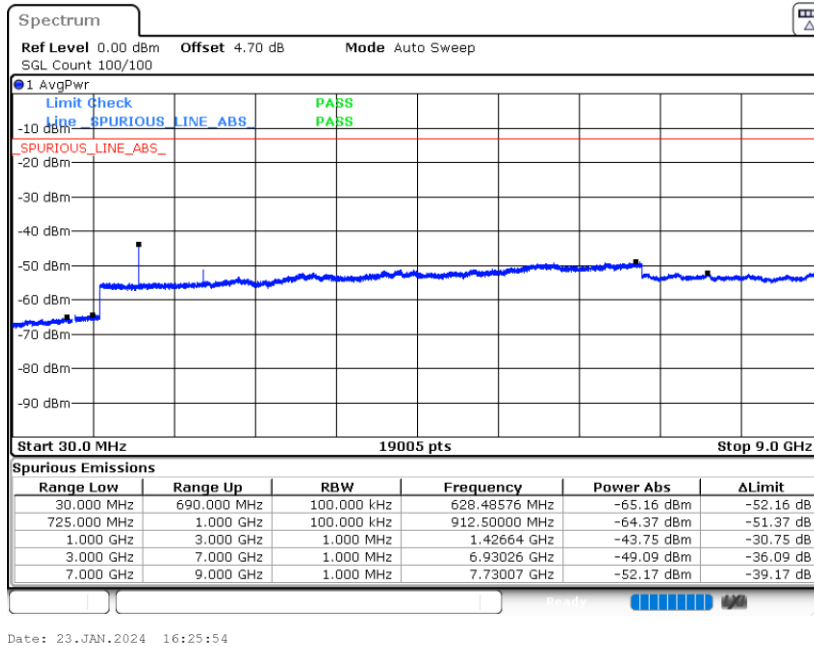
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

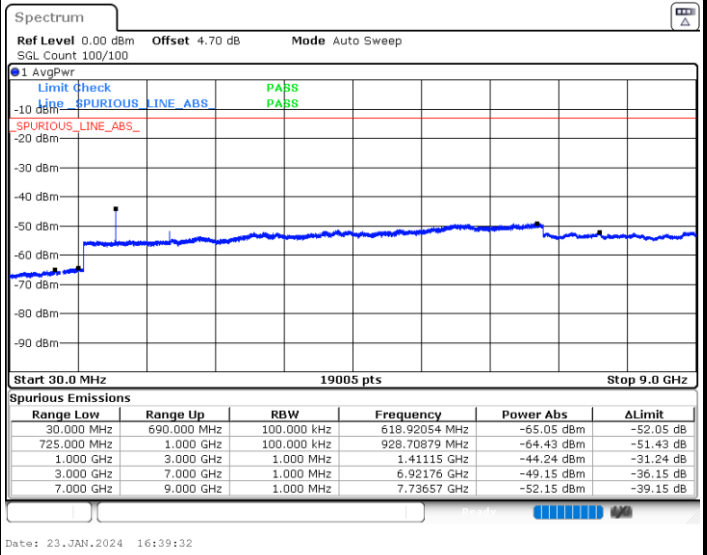
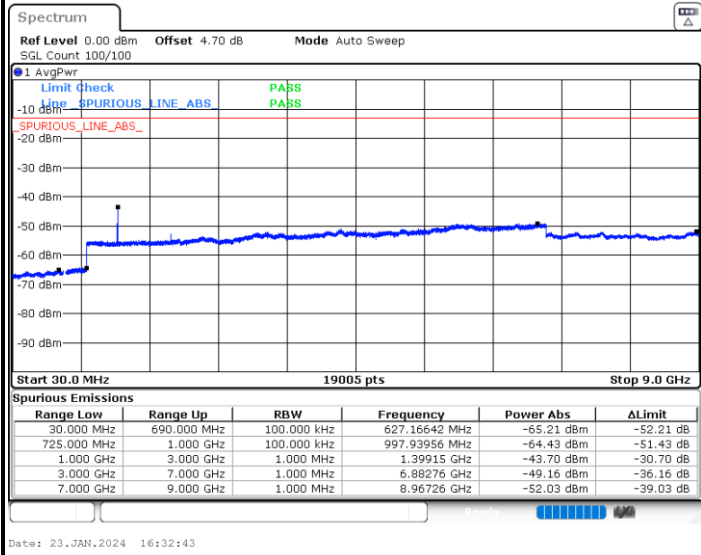




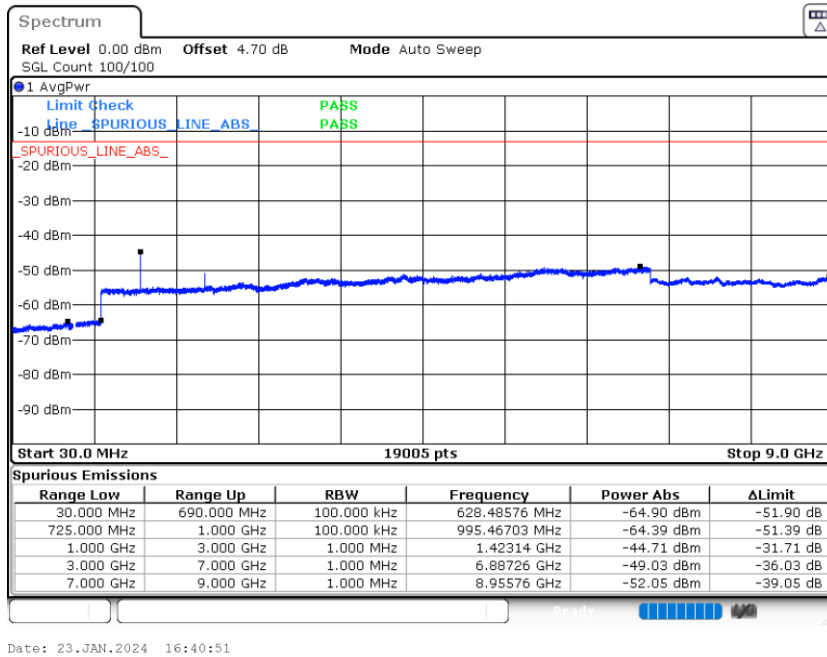
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

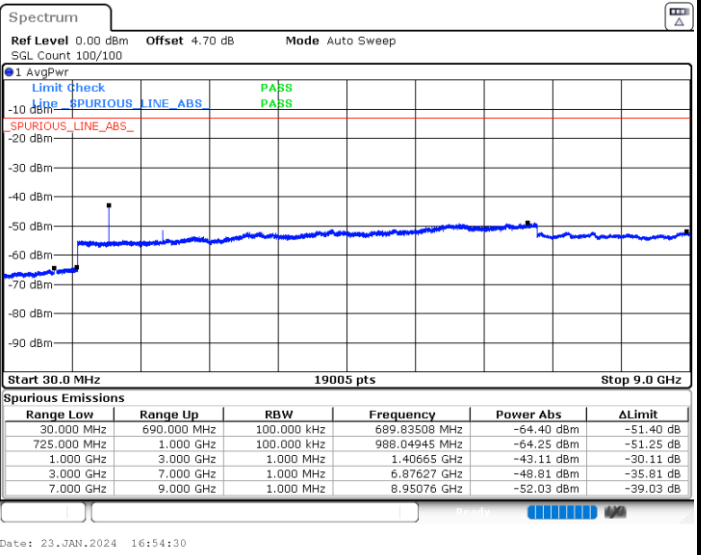
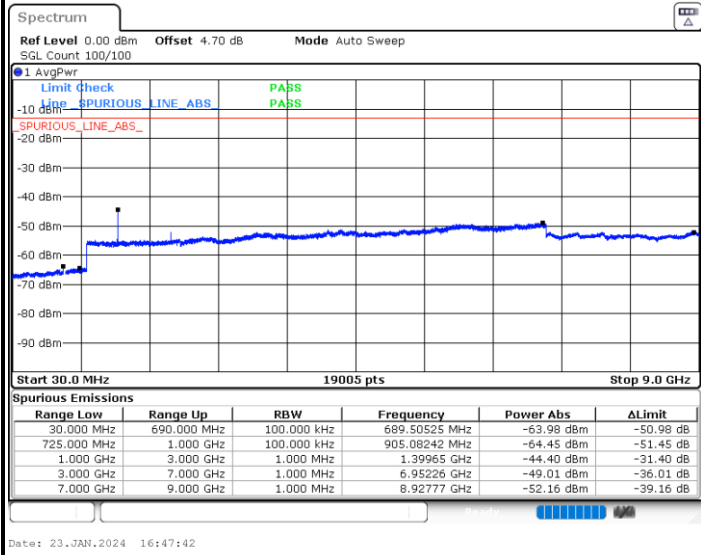




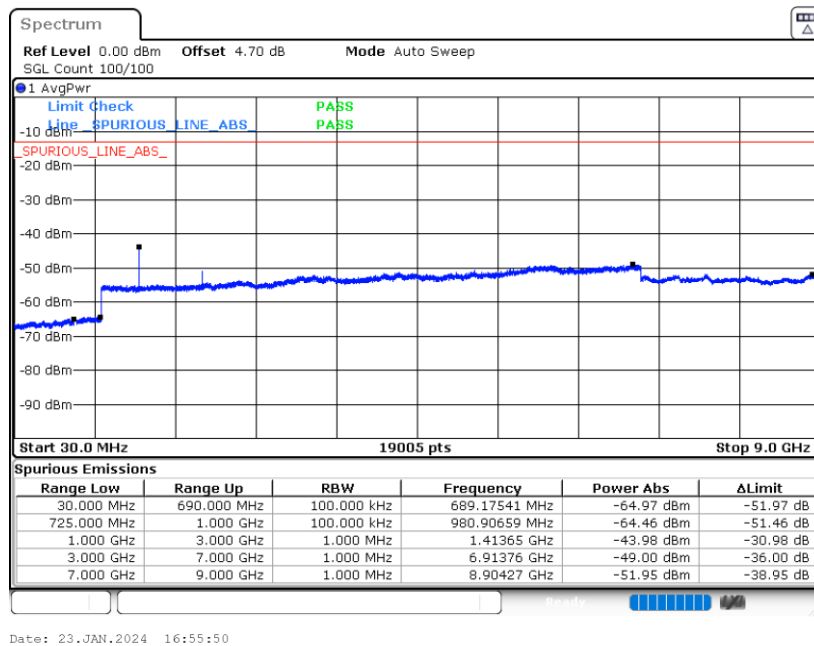
LTE Band 12 / 10MHz

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	0.0029	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0012	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

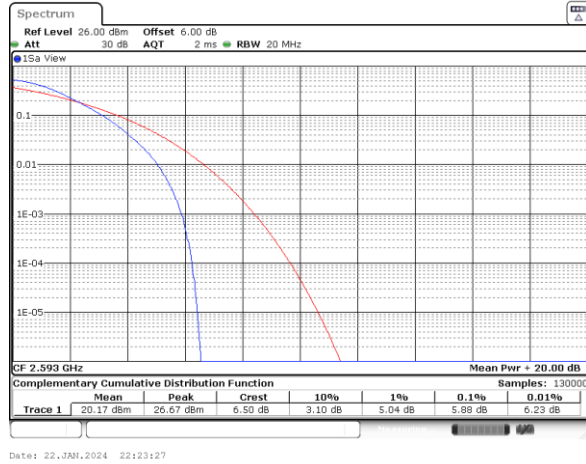
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.88	5.80	6.23	PASS

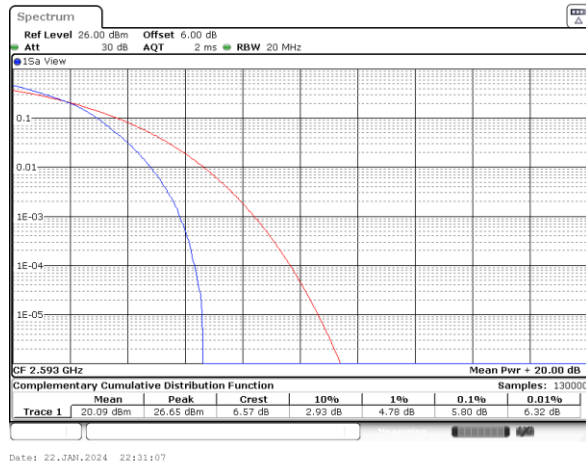


LTE Band 41 / 20MHz

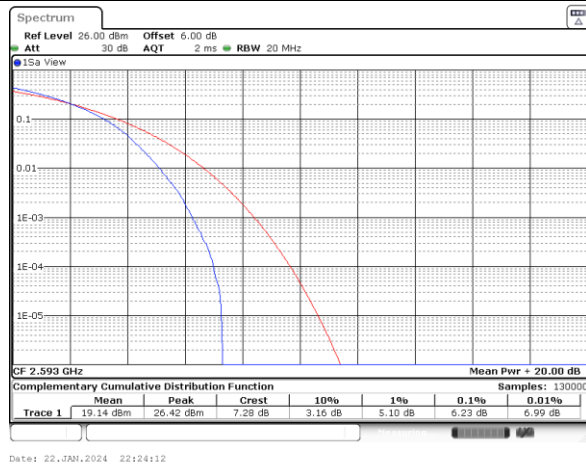
Middle Channel / Full RB / QPSK



Middle Channel / Full RB / 16QAM



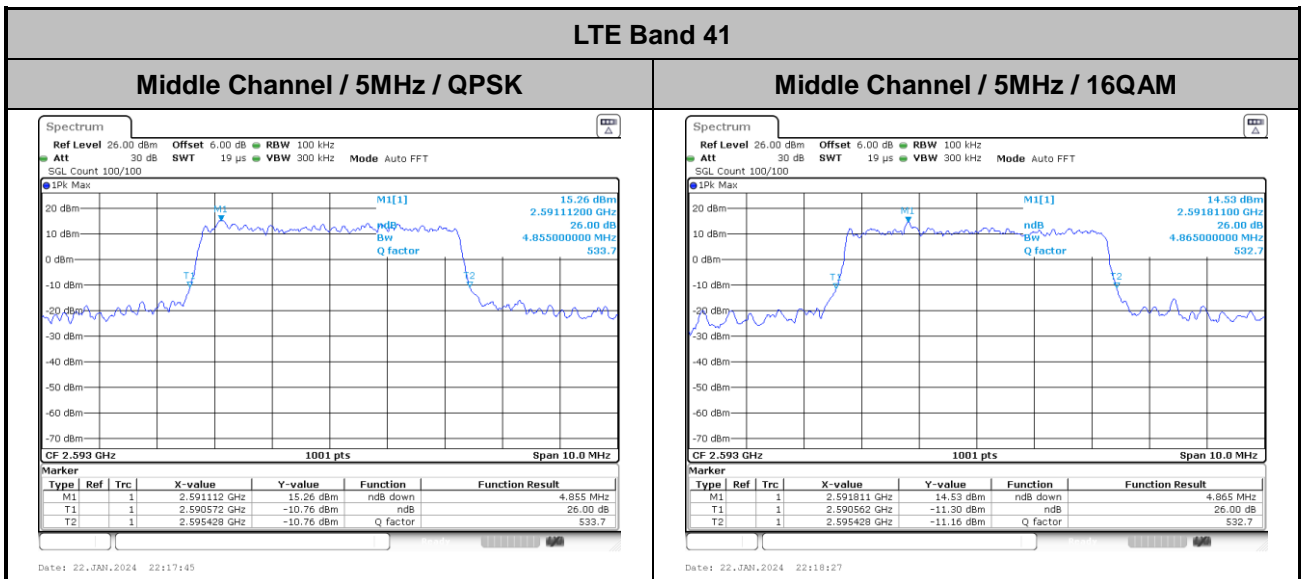
Middle Channel / Full RB / 64QAM





26dB Bandwidth

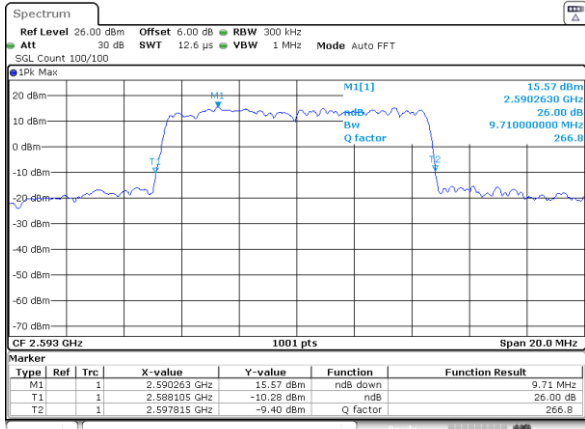
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.86	4.87
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.71	9.71
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.36	14.39
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.06	18.78





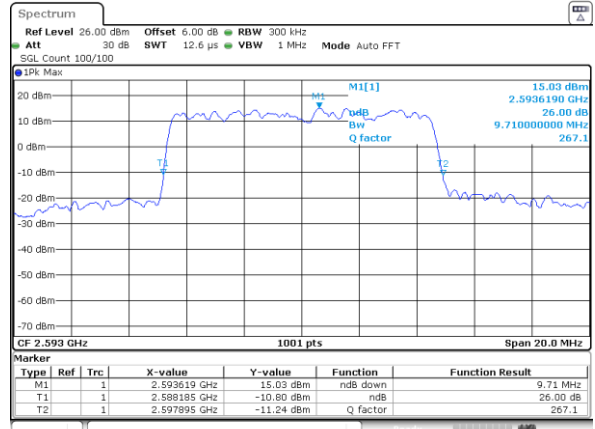
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 22_JAN_2024 22:19:33

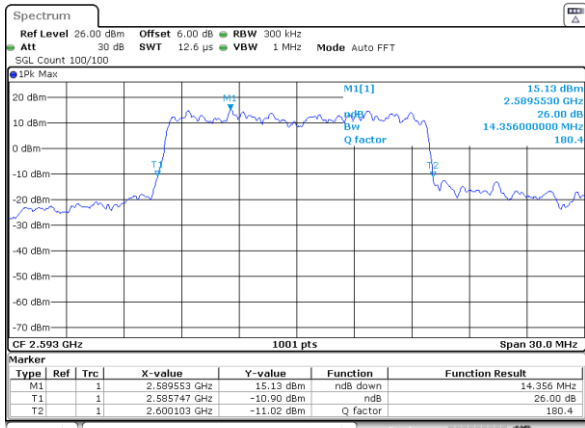
Middle Channel / 10MHz / 16QAM



Date: 22_JAN_2024 22:19:53

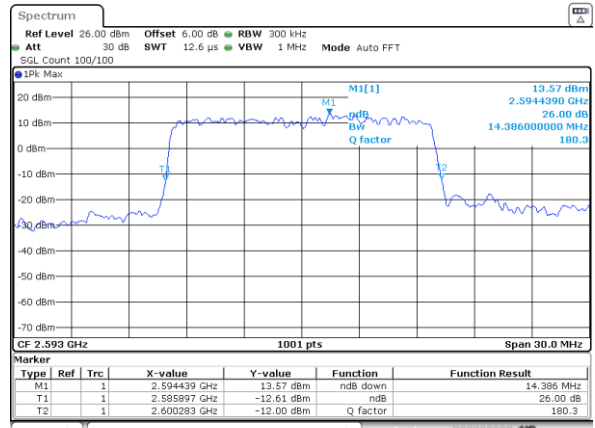
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 22_JAN_2024 22:20:57

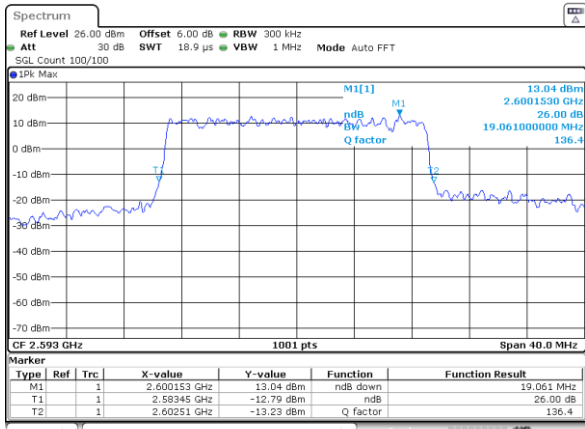
Middle Channel / 15MHz / 16QAM



Date: 22_JAN_2024 22:21:18

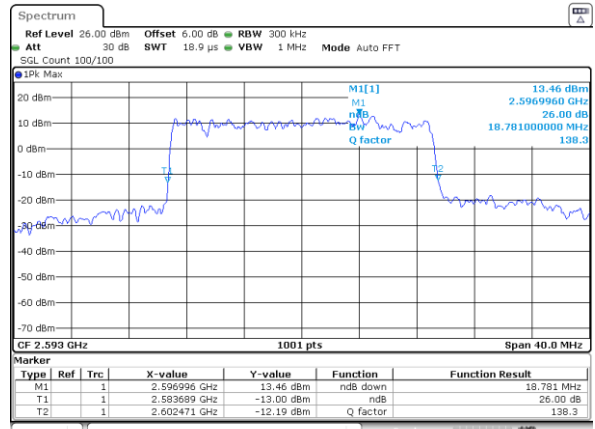
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 22_JAN_2024 22:22:22

Middle Channel / 20MHz / 16QAM

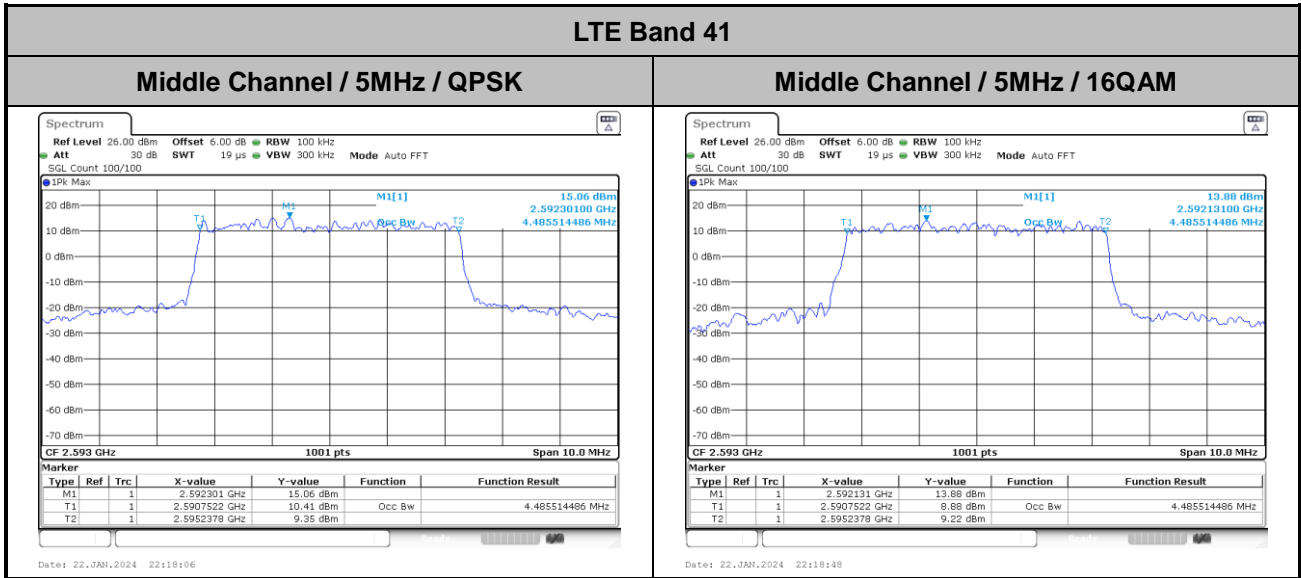


Date: 22_JAN_2024 22:22:43



Occupied Bandwidth

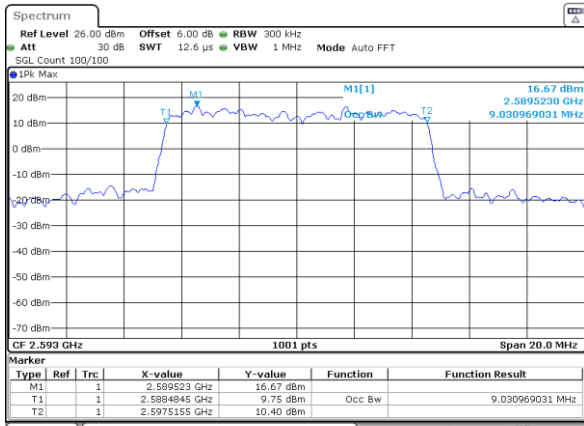
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.40
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.78





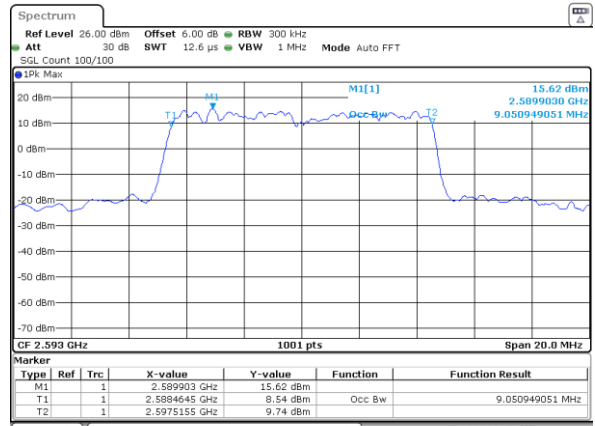
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 22.JAN.2024 22:19:10

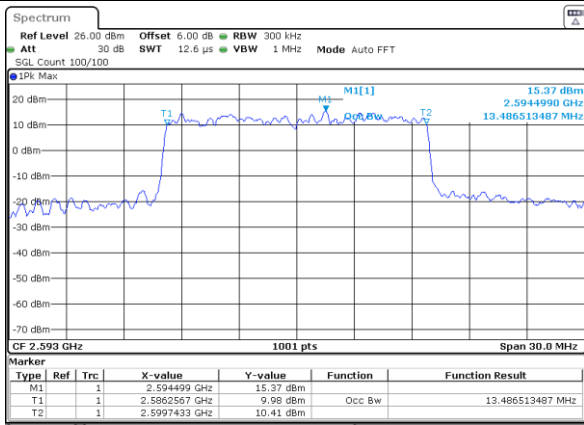
Middle Channel / 10MHz / 16QAM



Date: 22.JAN.2024 22:20:14

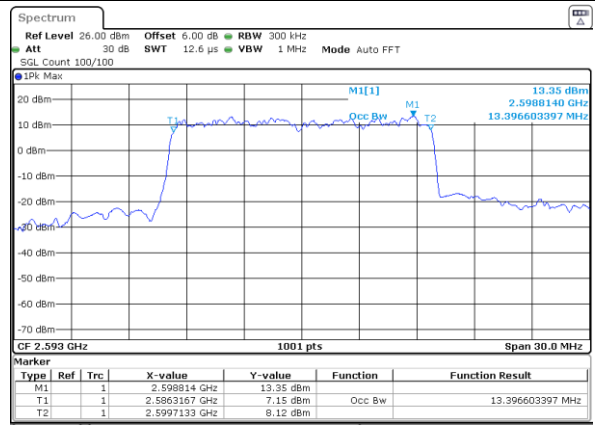
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 22.JAN.2024 22:20:36

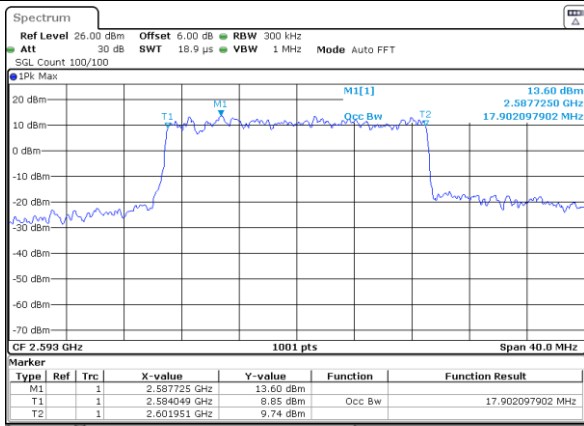
Middle Channel / 15MHz / 16QAM



Date: 22.JAN.2024 22:21:39

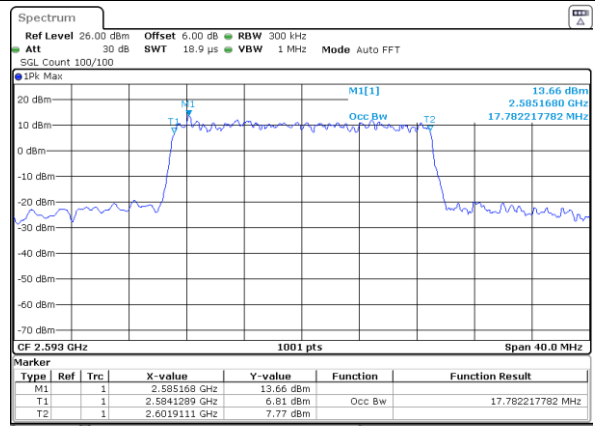
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 22.JAN.2024 22:22:01

Middle Channel / 20MHz / 16QAM



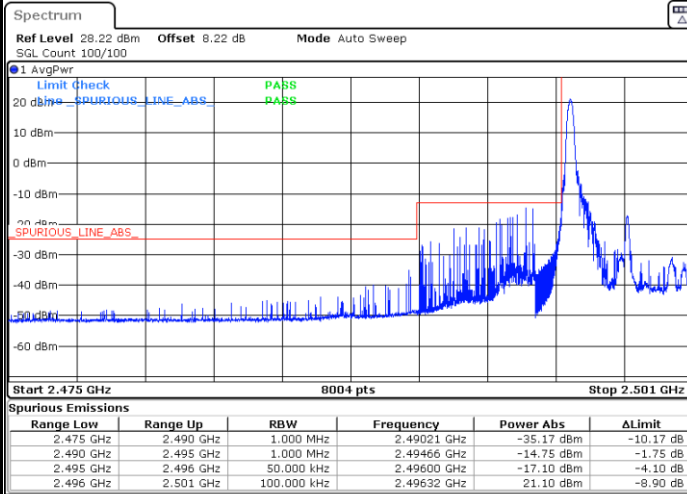
Date: 22.JAN.2024 22:23:05



Conducted Band Edge

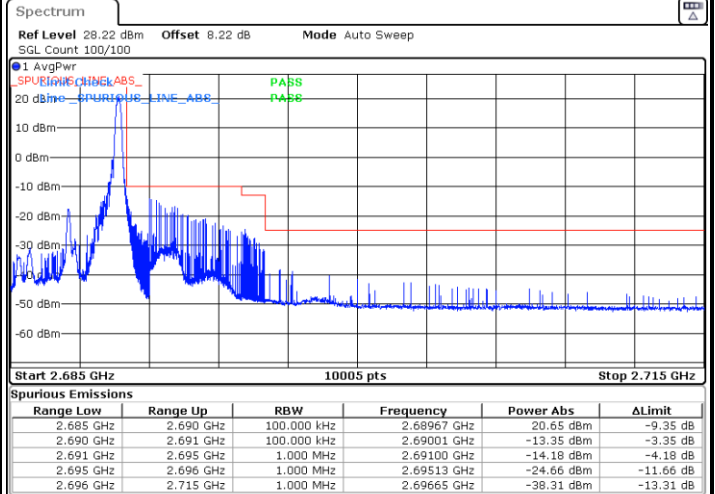
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



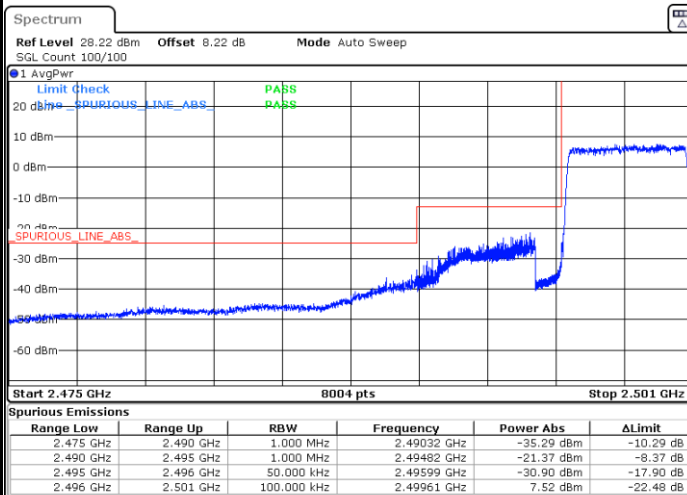
Date: 22.JAN.2024 21:10:29

Highest Band Edge / 1 RB



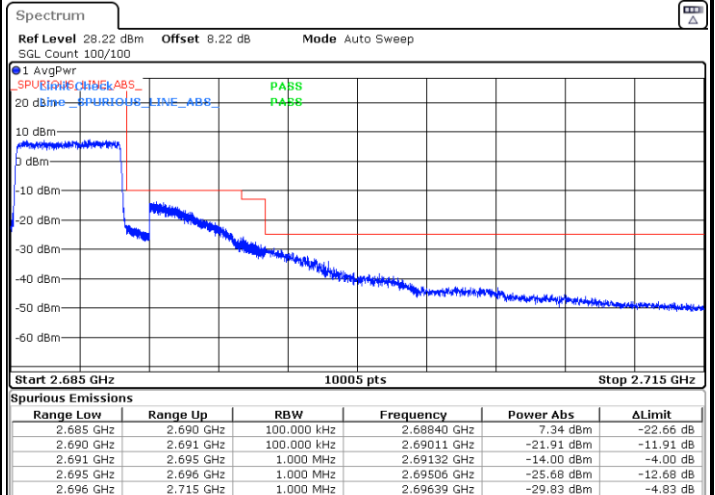
Date: 22.JAN.2024 21:15:14

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:14:28

Highest Band Edge / Full RB

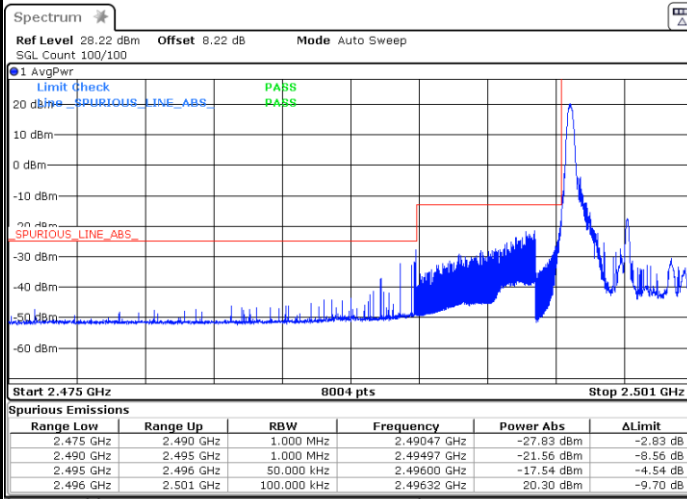


Date: 22.JAN.2024 21:19:05



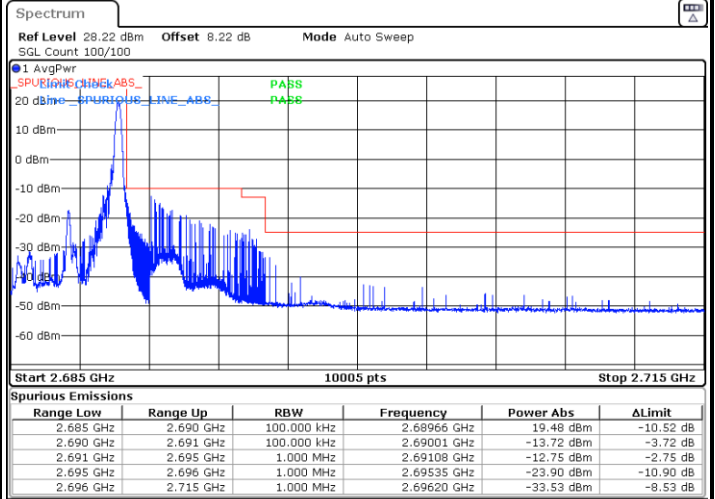
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



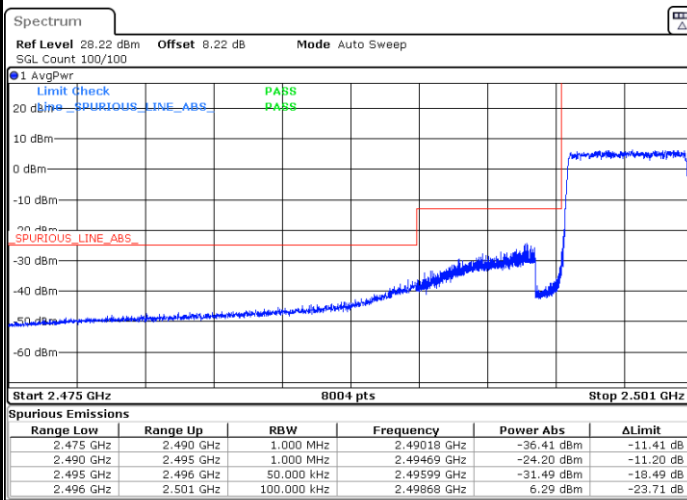
Date: 22.JAN.2024 21:49:23

Highest Band Edge / 1 RB



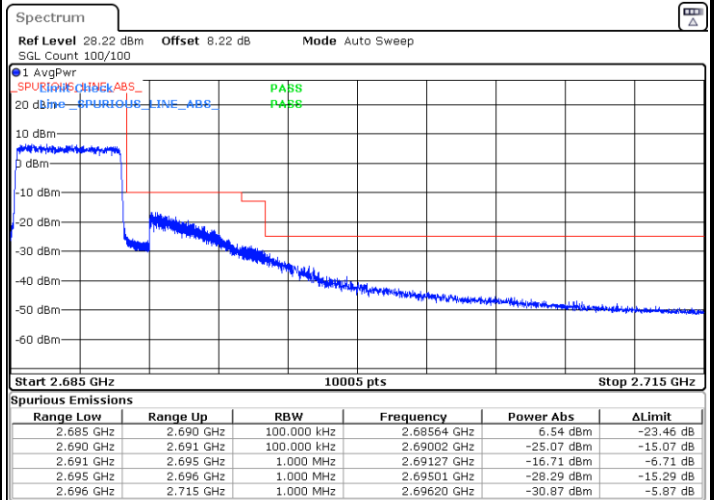
Date: 22.JAN.2024 21:16:00

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:13:41

Highest Band Edge / Full RB

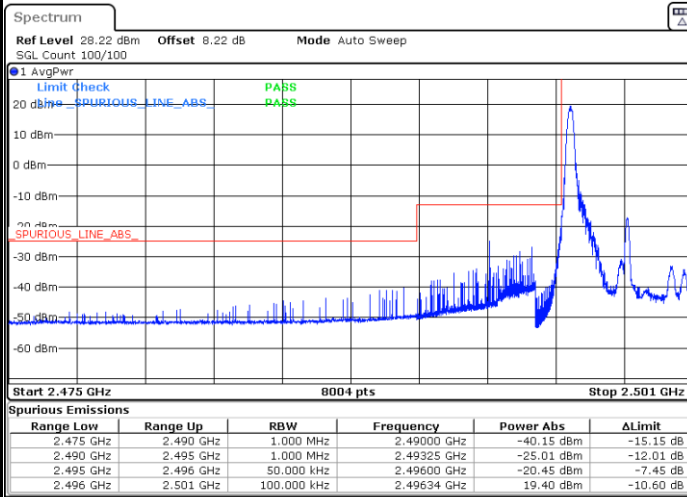


Date: 22.JAN.2024 21:18:19



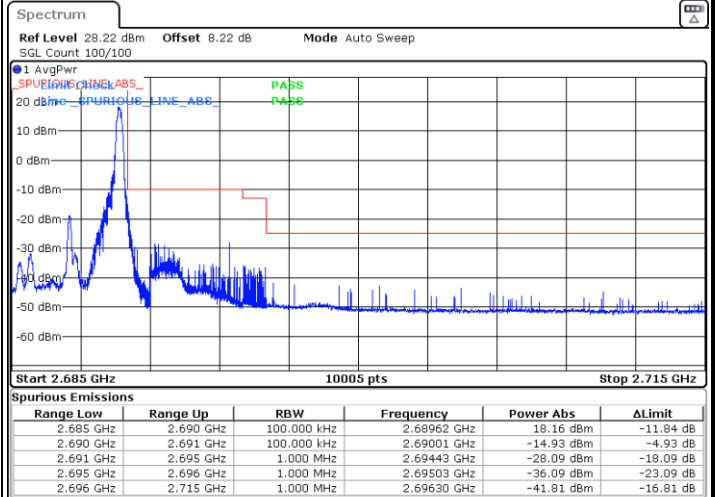
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



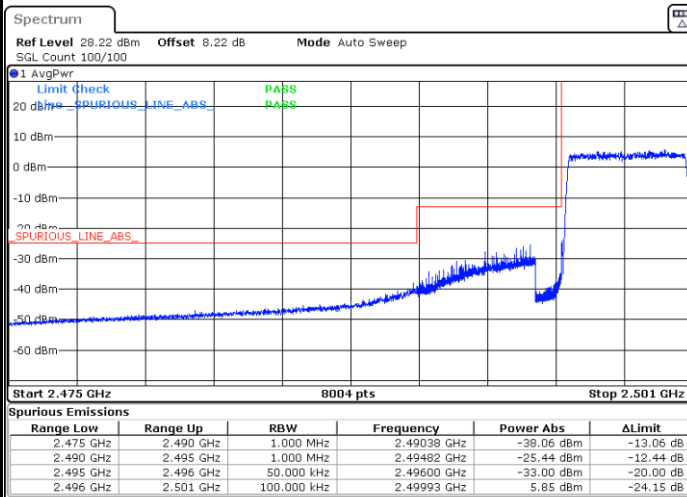
Date: 22.JAN.2024 21:12:05

Highest Band Edge / 1 RB



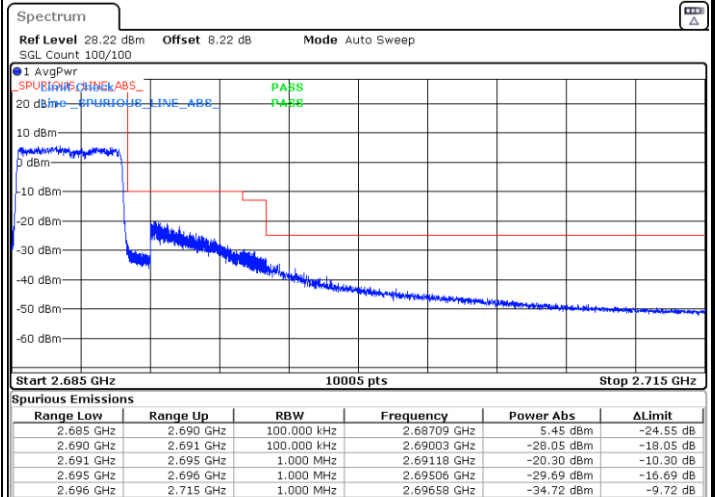
Date: 22.JAN.2024 21:16:46

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:12:53

Highest Band Edge / Full RB

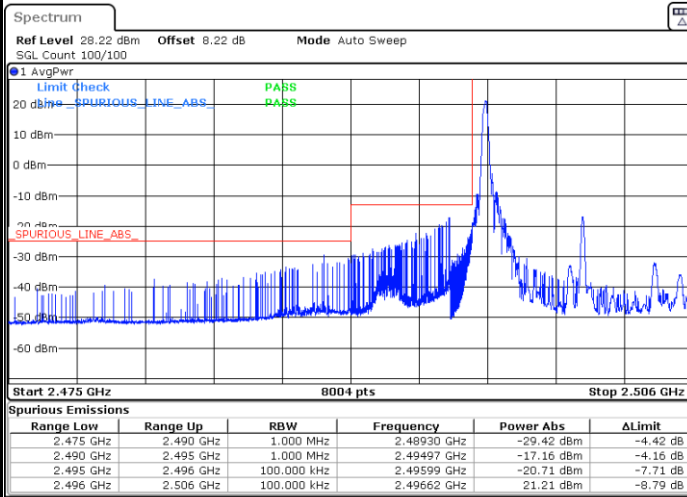


Date: 22.JAN.2024 21:17:33



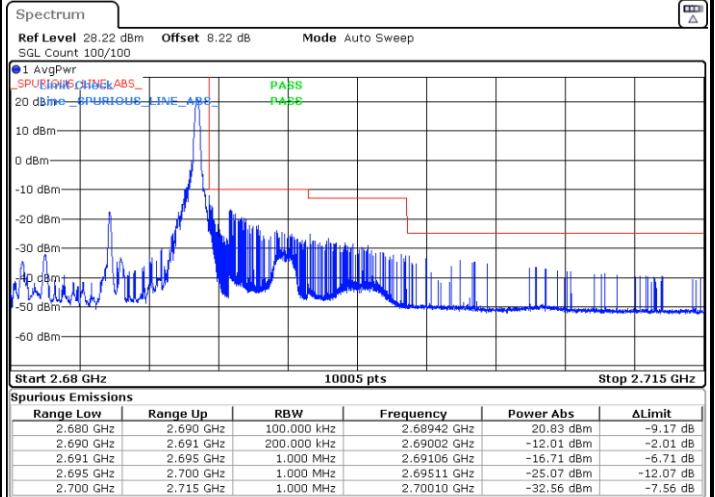
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



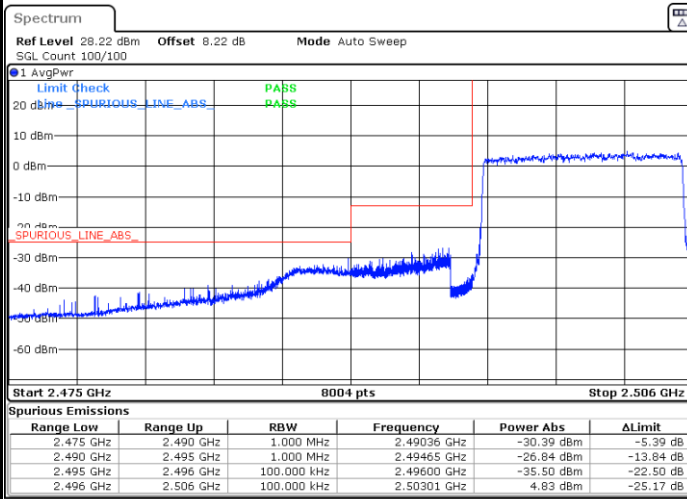
Date: 22.JAN.2024 21:19:54

Highest Band Edge / 1 RB



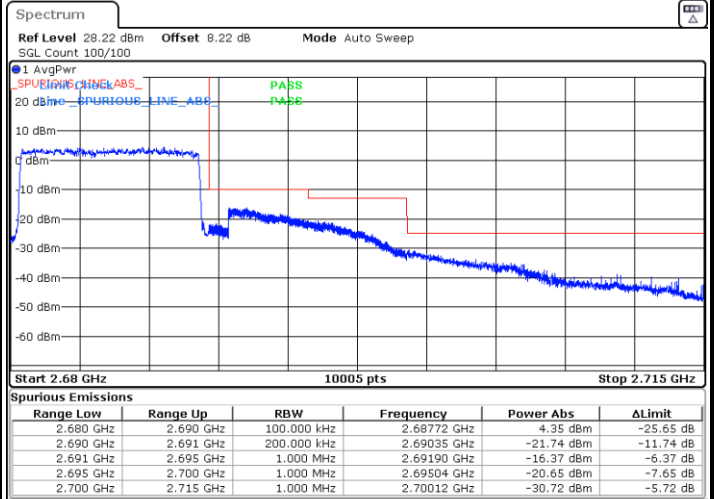
Date: 22.JAN.2024 21:24:39

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:22:17

Highest Band Edge / Full RB

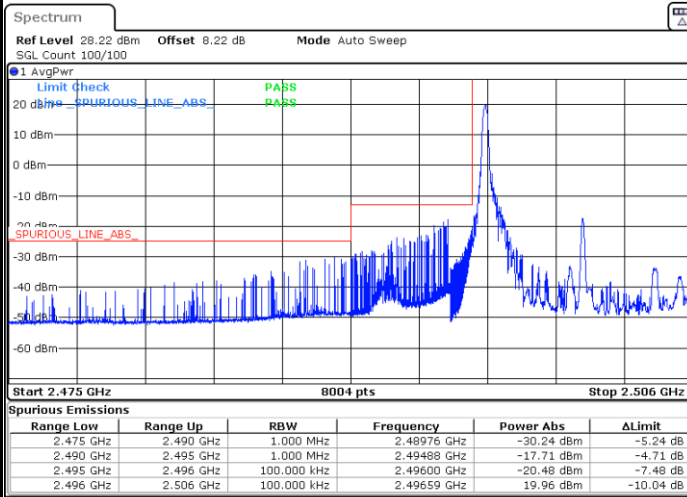


Date: 22.JAN.2024 21:26:56



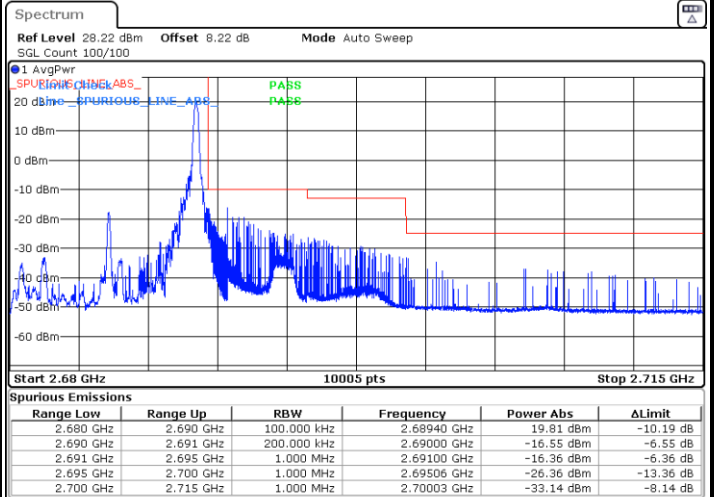
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



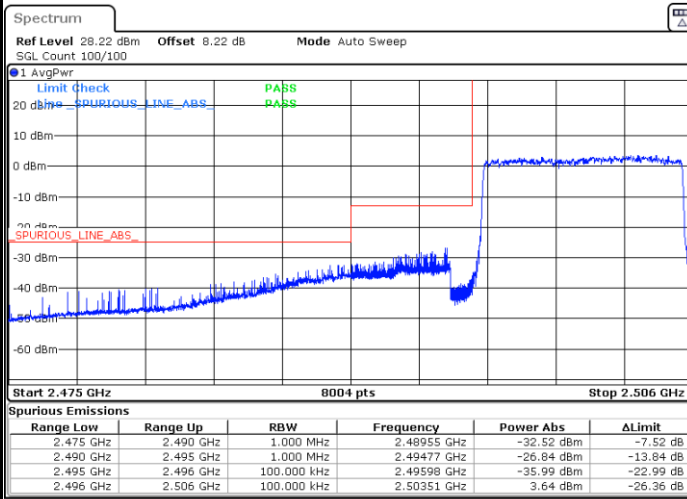
Date: 22, JAN, 2024 21:20:41

Highest Band Edge / 1 RB



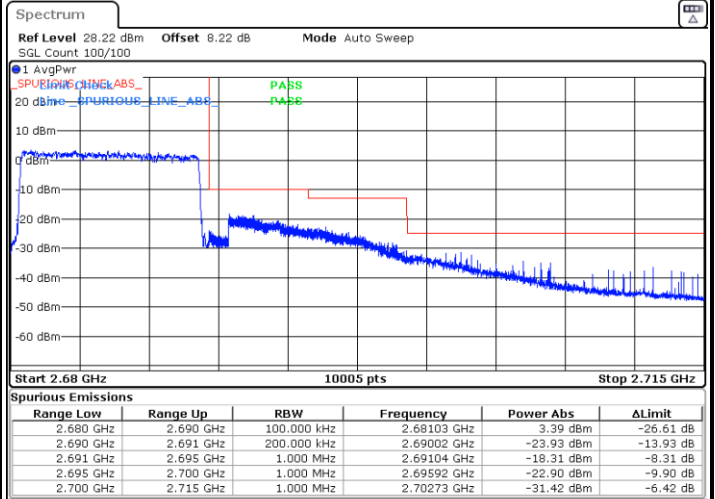
Date: 22, JAN, 2024 21:25:25

Lowest Band Edge / Full RB



Date: 22, JAN, 2024 21:23:05

Highest Band Edge / Full RB

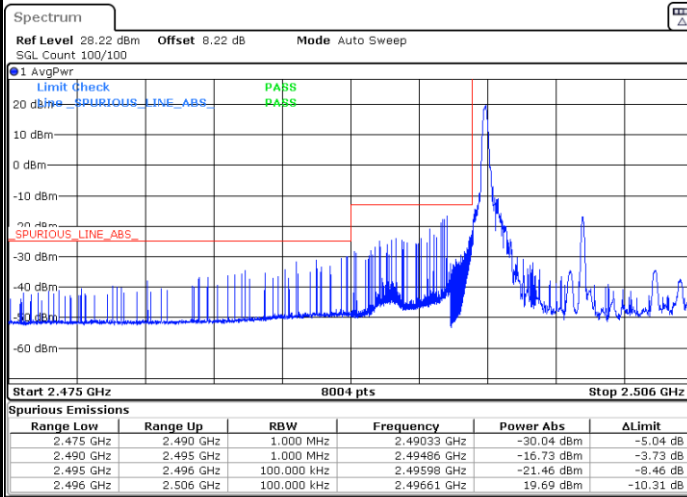


Date: 22, JAN, 2024 21:27:42



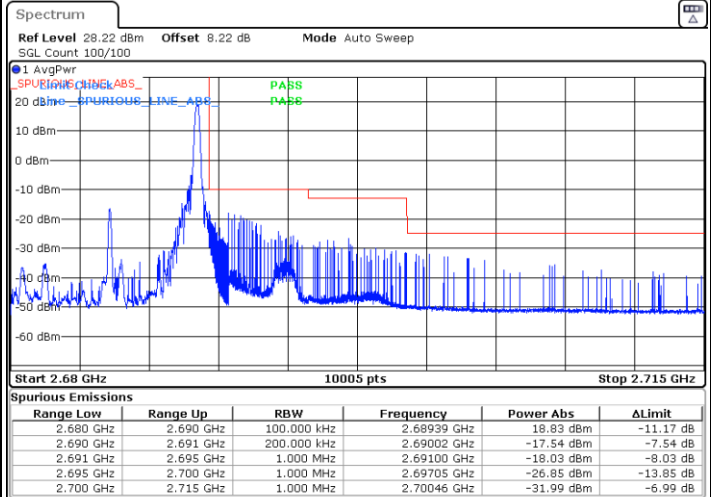
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



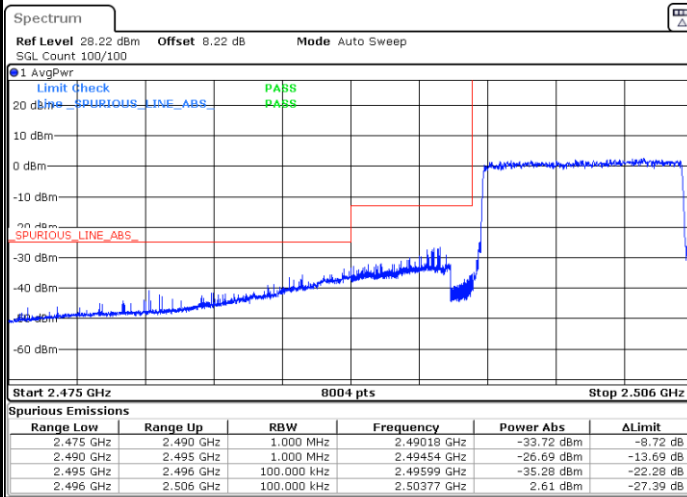
Date: 22.JAN.2024 21:21:29

Highest Band Edge / 1 RB



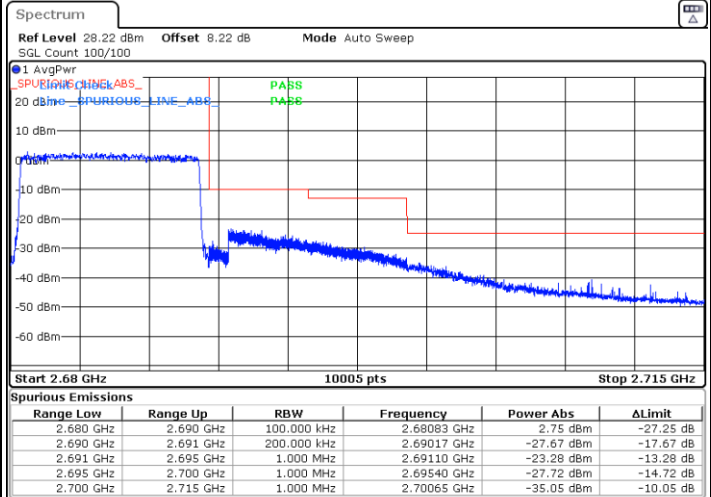
Date: 22.JAN.2024 21:26:10

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:23:53

Highest Band Edge / Full RB

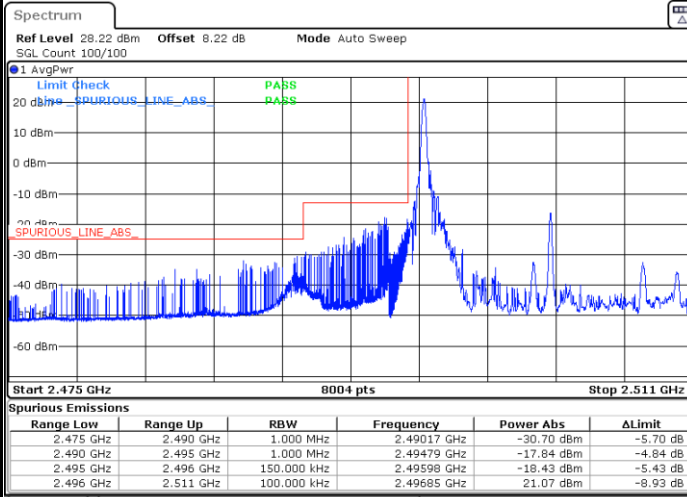


Date: 22.JAN.2024 21:28:28



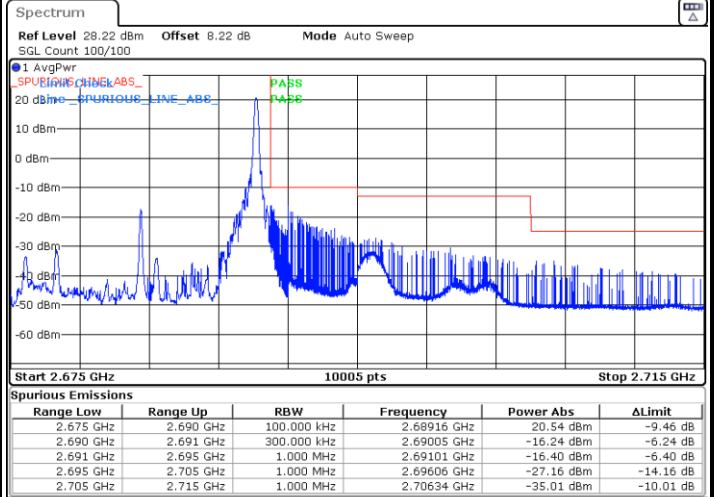
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



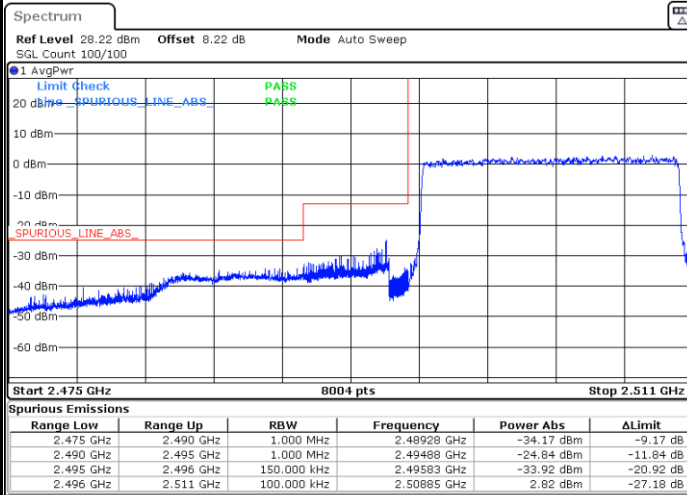
Date: 22.JAN.2024 21:29:21

Highest Band Edge / 1 RB



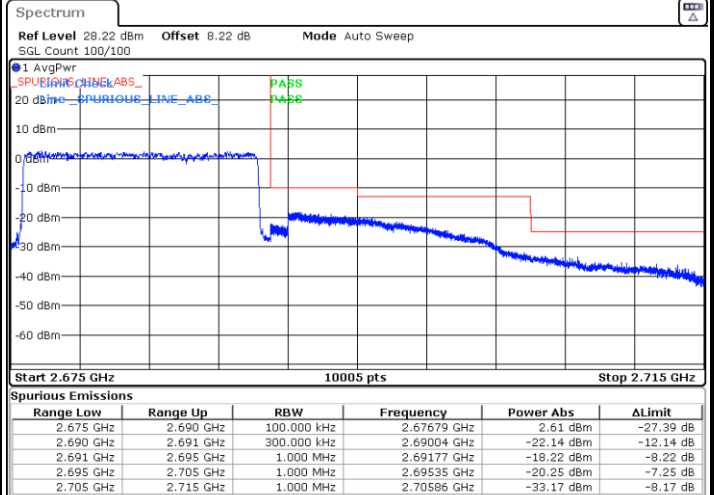
Date: 22.JAN.2024 21:34:06

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:31:45

Highest Band Edge / Full RB



Date: 22.JAN.2024 21:36:22