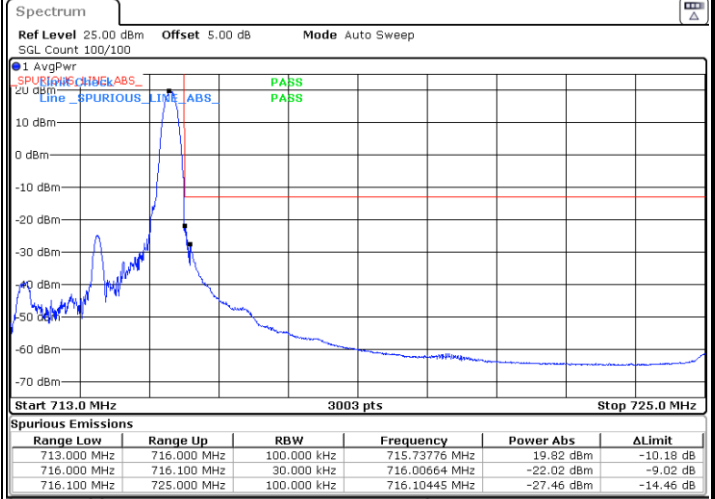
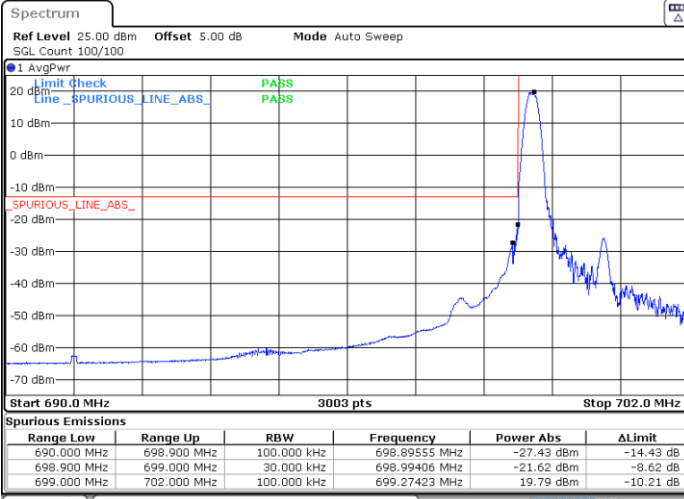




LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

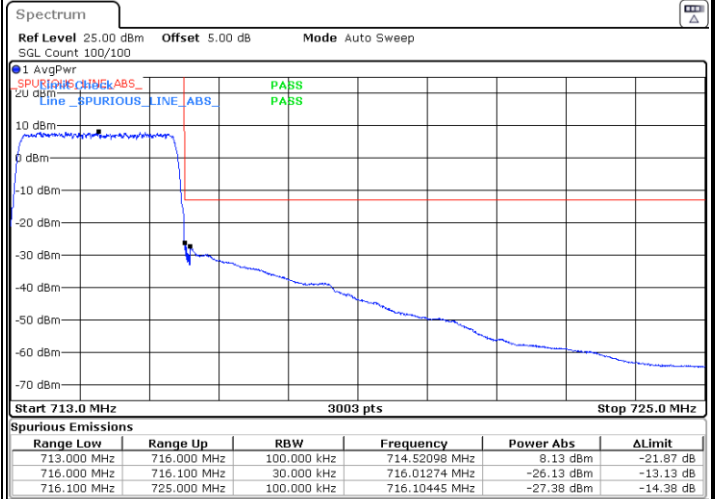
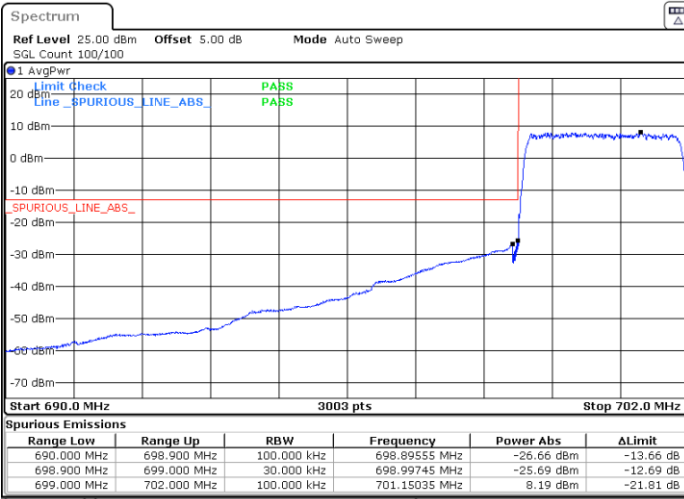


Date: 28.FEB.2024 01:38:42

Date: 28.FEB.2024 01:47:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



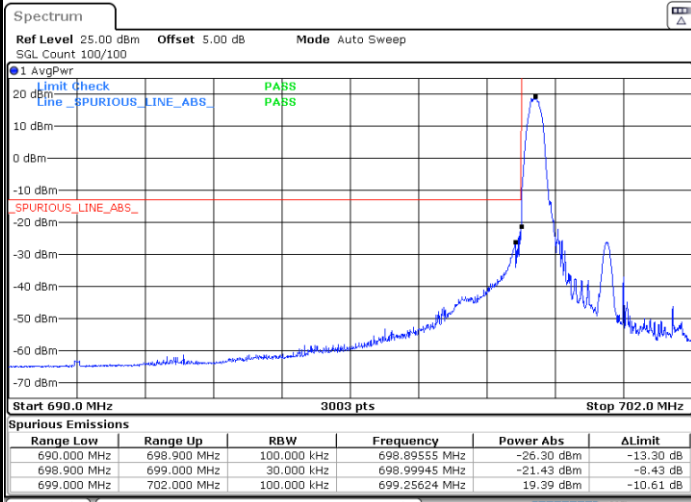
Date: 28.FEB.2024 01:41:00

Date: 28.FEB.2024 01:49:45



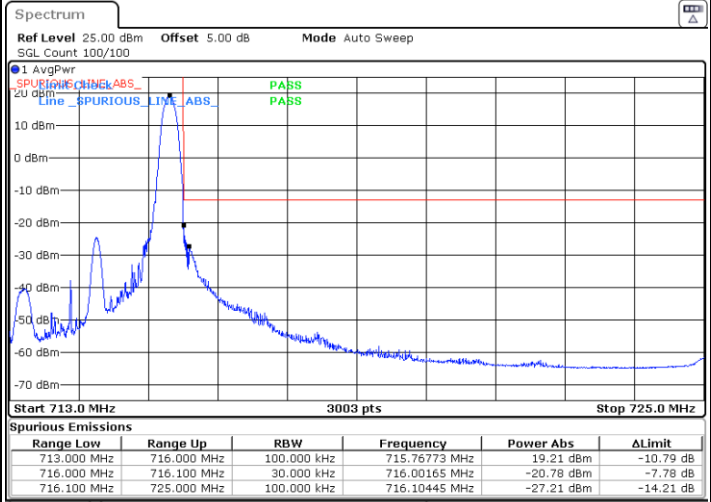
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



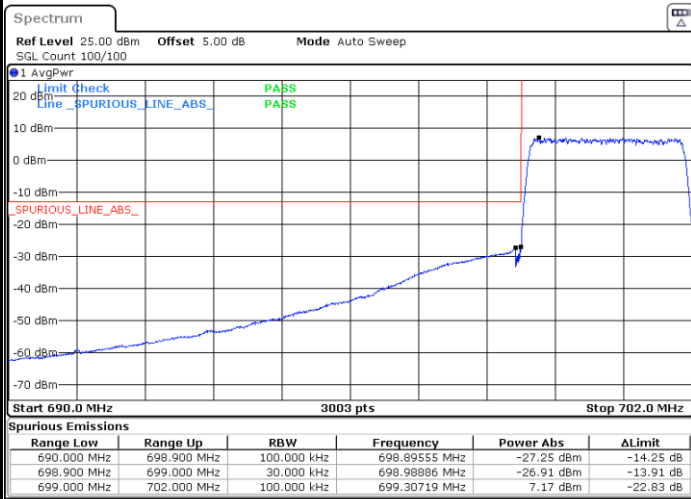
Date: 28.FEB.2024 01:39:28

Highest Band Edge / 1 RB



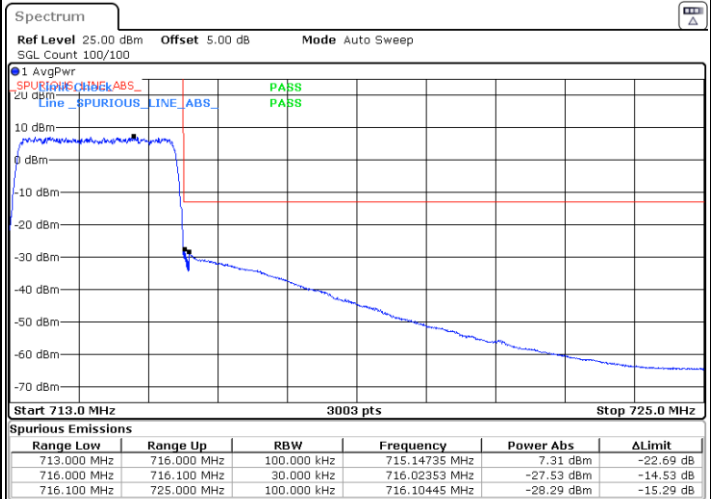
Date: 28.FEB.2024 01:48:13

Lowest Band Edge / Full RB



Date: 28.FEB.2024 01:41:46

Highest Band Edge / Full RB



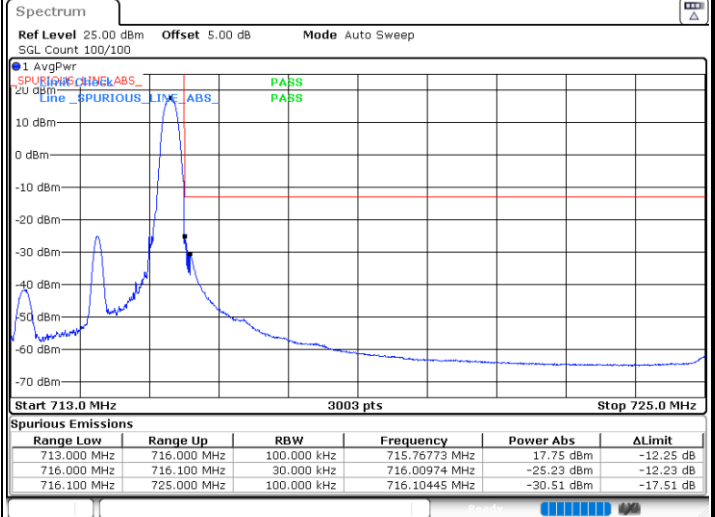
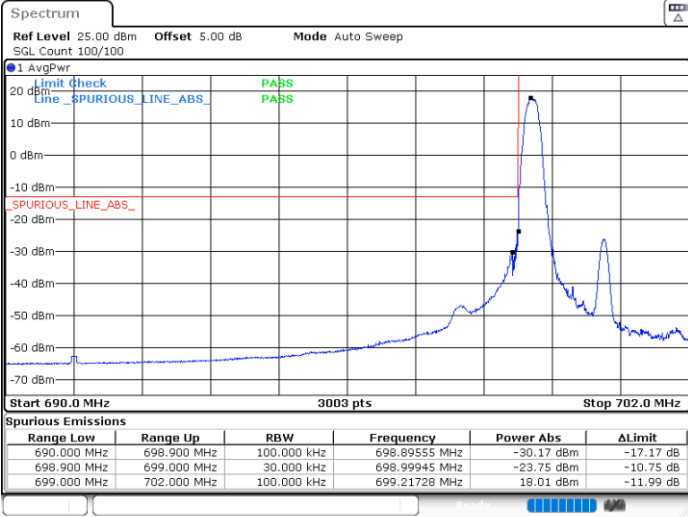
Date: 28.FEB.2024 01:50:31



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

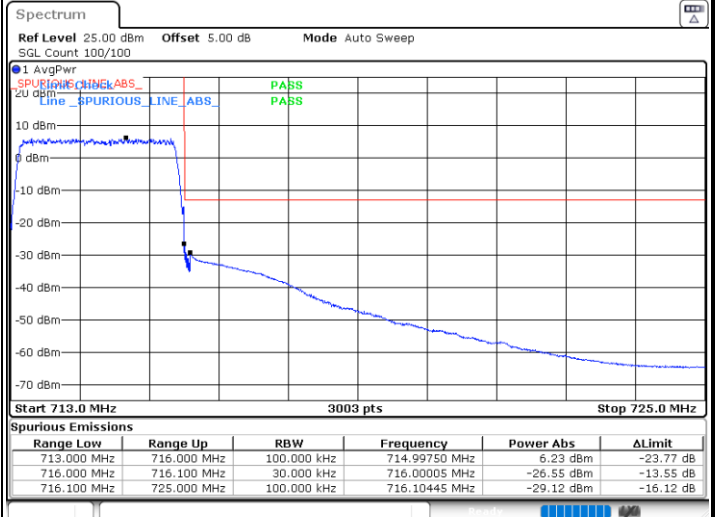
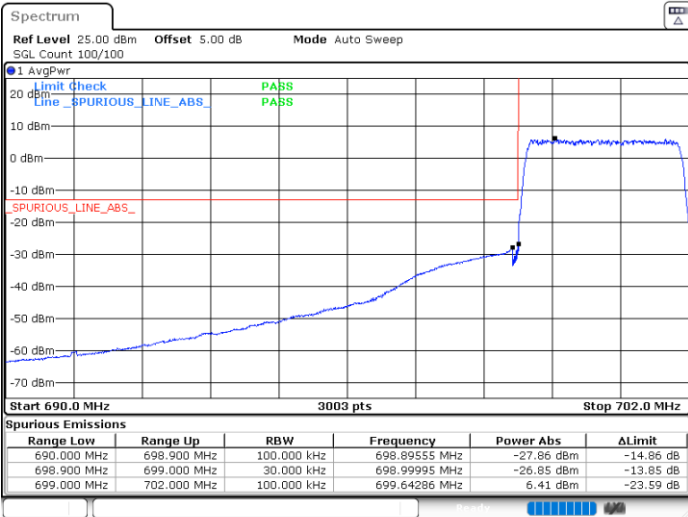


Date: 28.FEB.2024 01:40:14

Date: 28.FEB.2024 01:48:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.FEB.2024 01:42:32

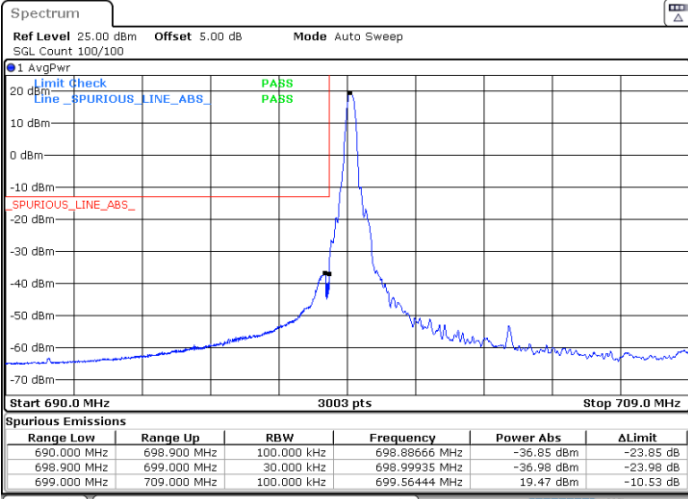
Date: 28.FEB.2024 01:51:17



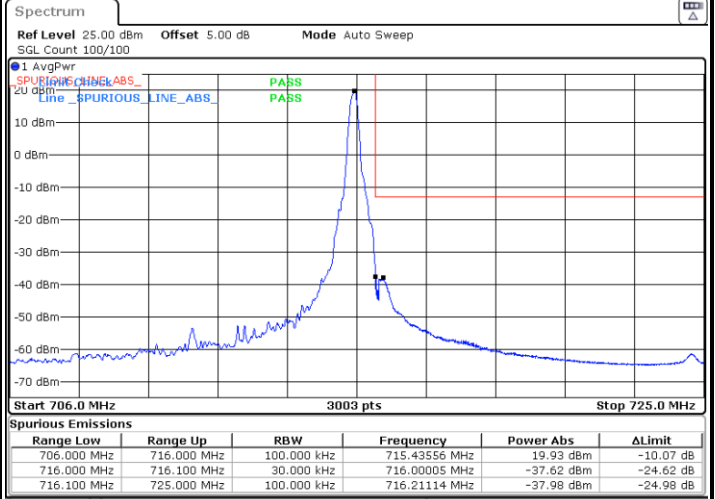
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



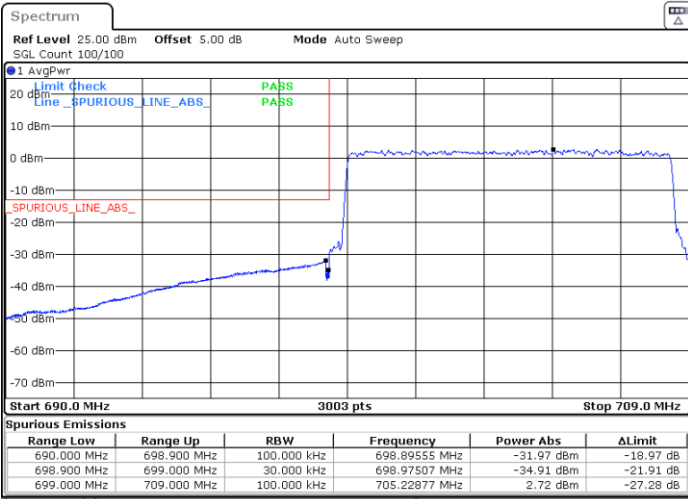
Date: 28.FEB.2024 02:10:00



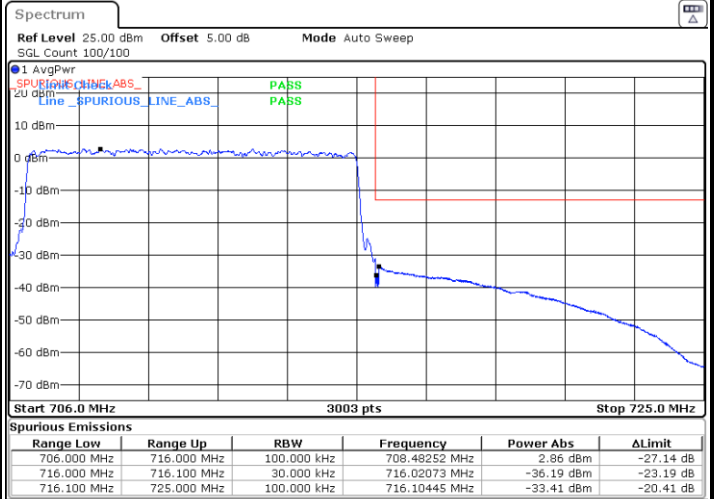
Date: 28.FEB.2024 02:20:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.FEB.2024 02:12:19

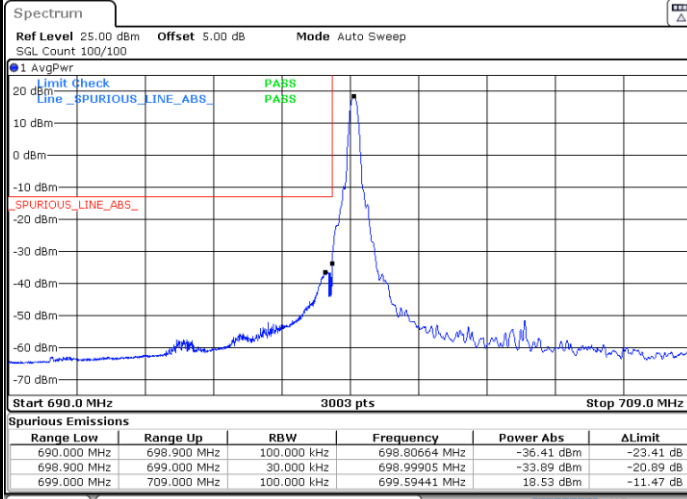


Date: 28.FEB.2024 02:22:25



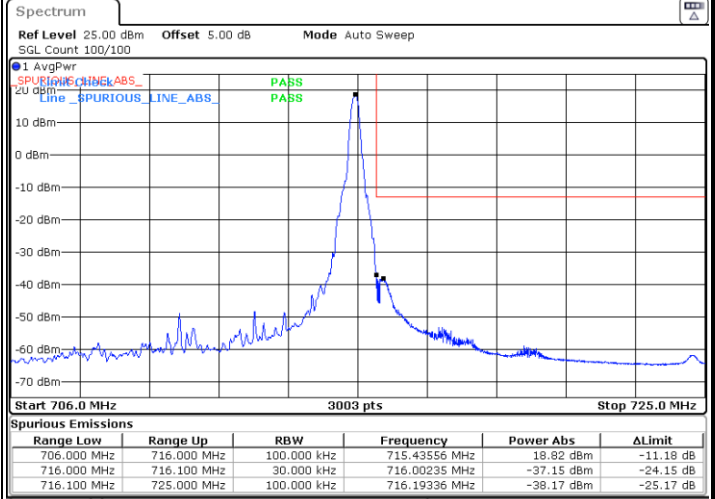
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



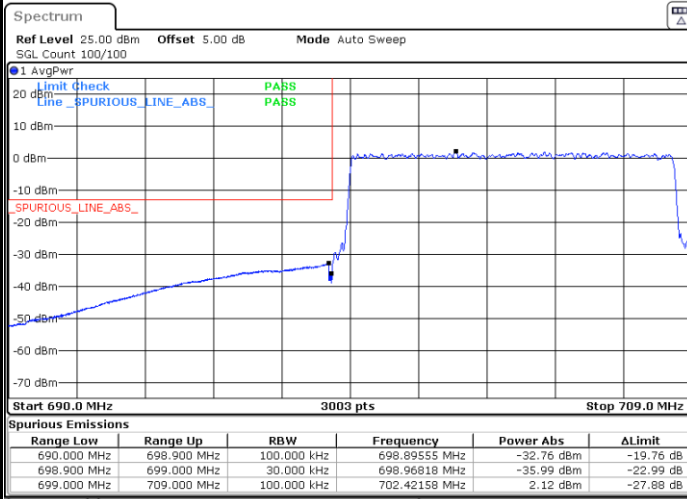
Date: 28.FEB.2024 02:10:46

Highest Band Edge / 1 RB



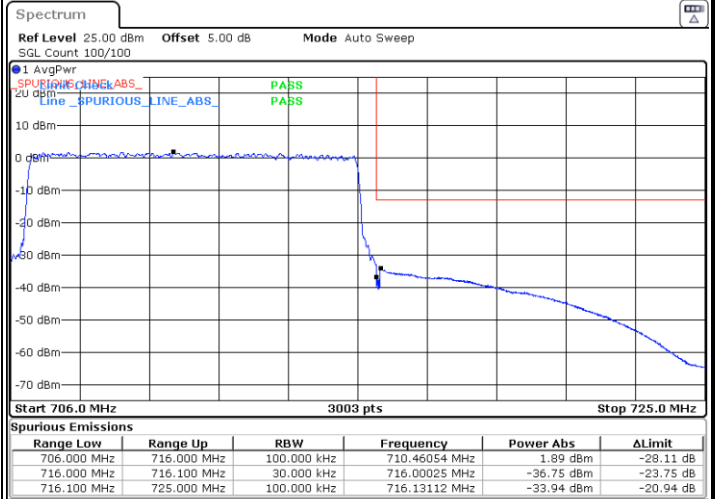
Date: 28.FEB.2024 02:20:52

Lowest Band Edge / Full RB



Date: 28.FEB.2024 02:13:05

Highest Band Edge / Full RB

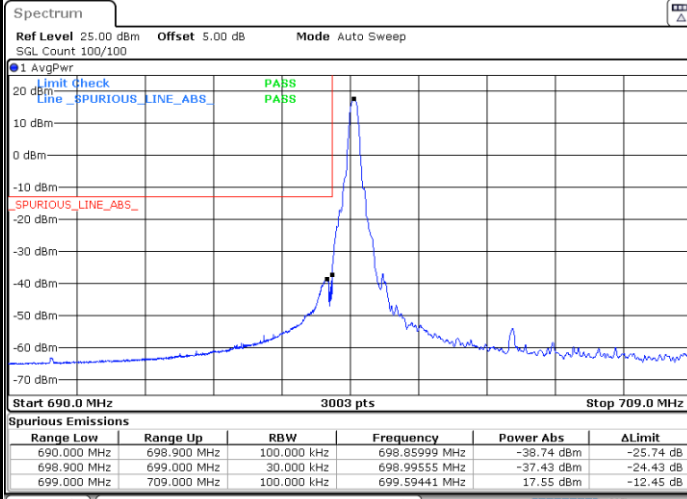


Date: 28.FEB.2024 02:23:11



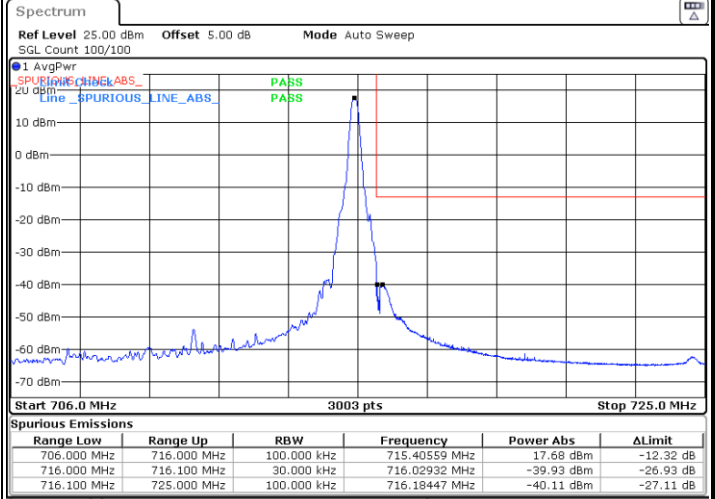
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



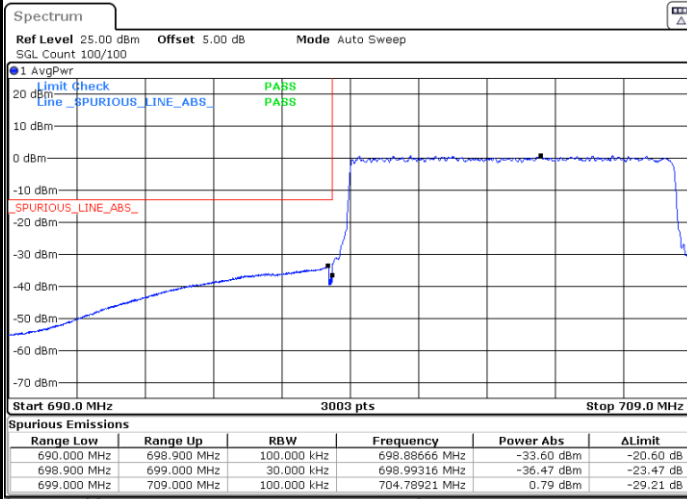
Date: 28.FEB.2024 02:11:33

Highest Band Edge / 1 RB



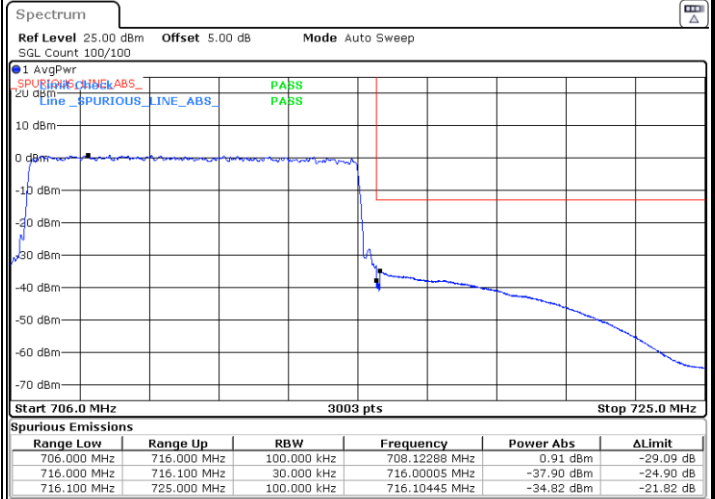
Date: 28.FEB.2024 02:21:38

Lowest Band Edge / Full RB



Date: 28.FEB.2024 02:13:52

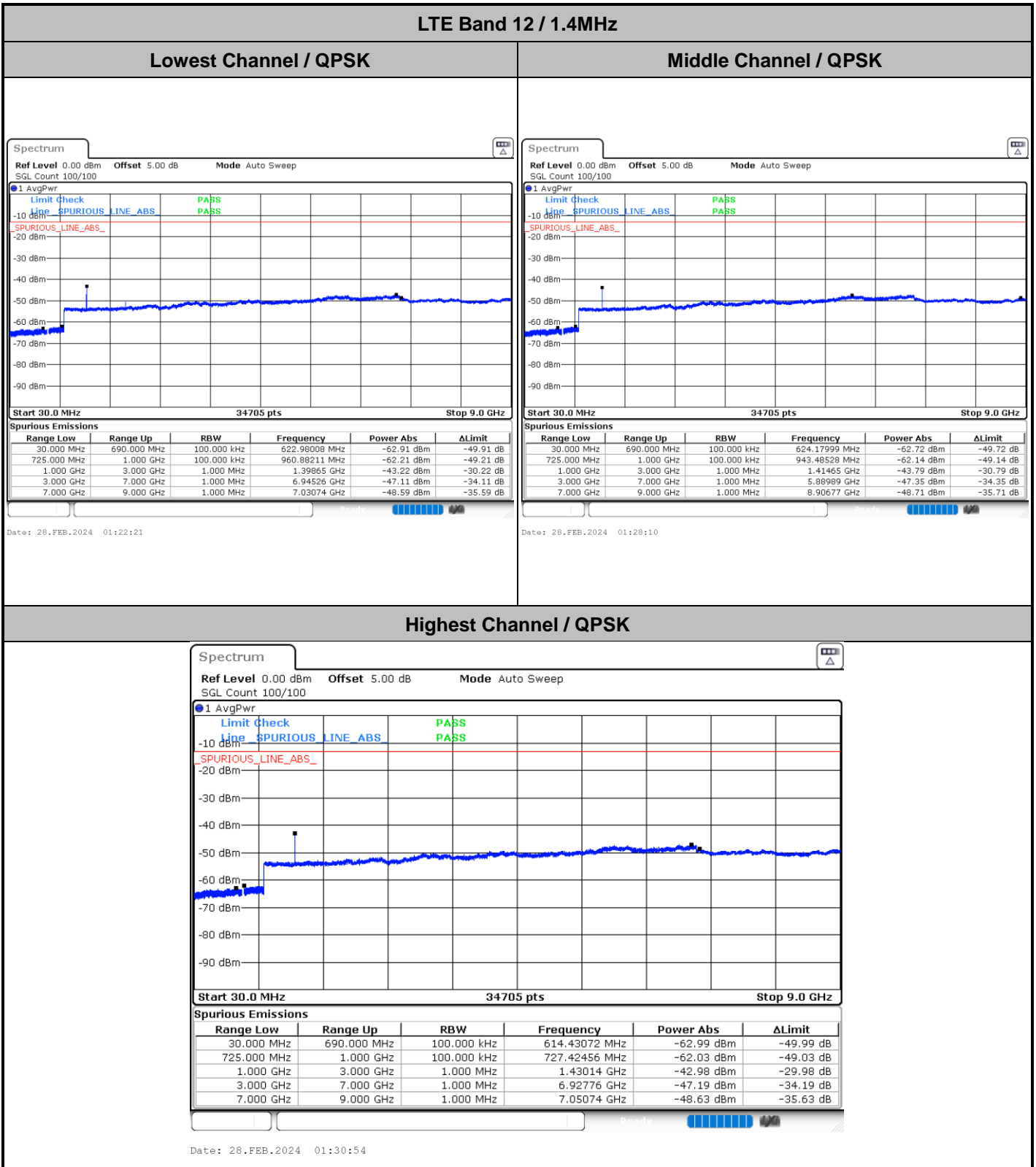
Highest Band Edge / Full RB



Date: 28.FEB.2024 02:23:57



Conducted Spurious Emission

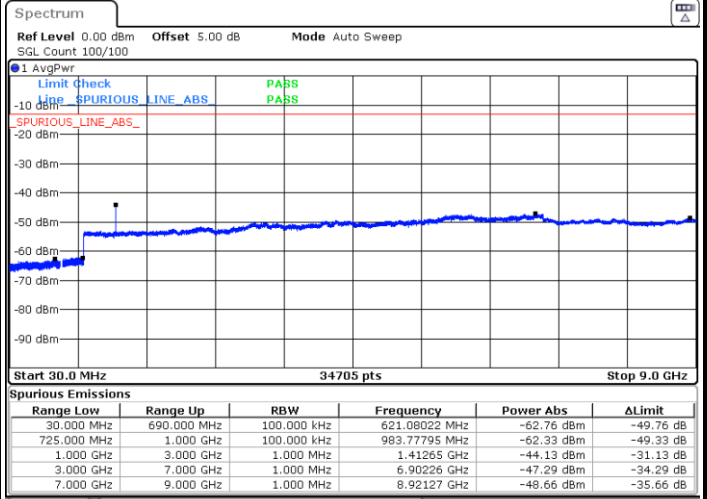
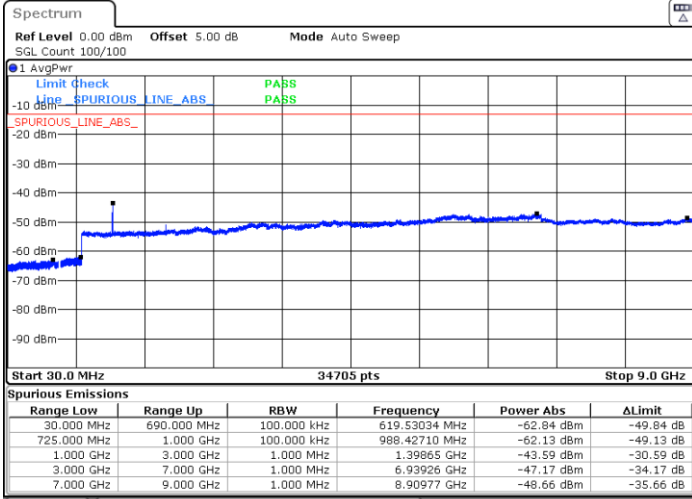




LTE Band 12 / 3MHz

Lowest Channel / QPSK

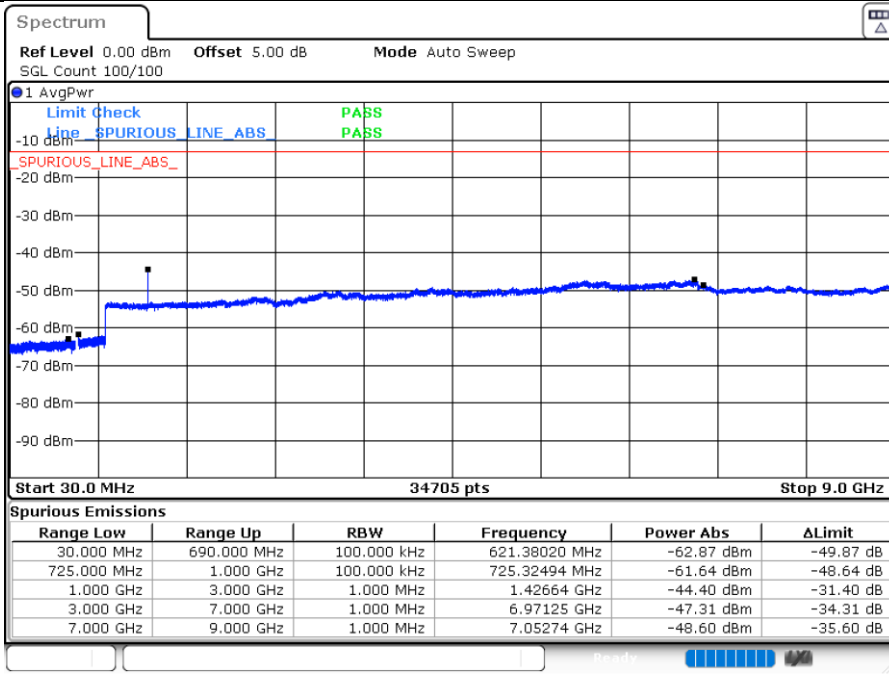
Middle Channel / QPSK



Date: 28.FEB.2024 01:38:08

Date: 28.FEB.2024 01:43:57

Highest Channel / QPSK



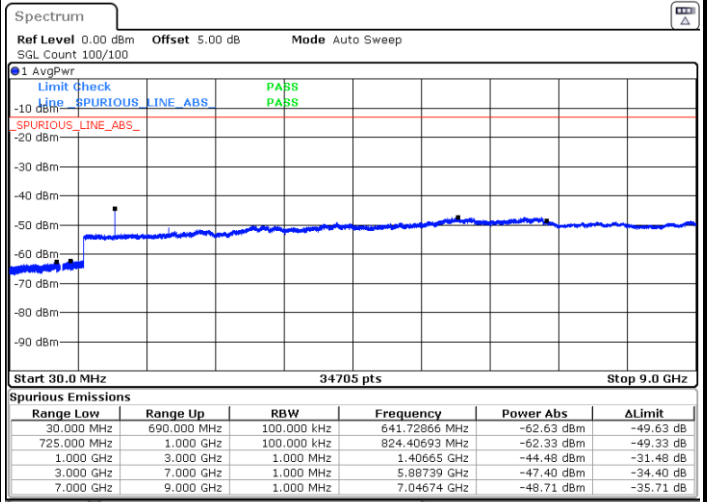
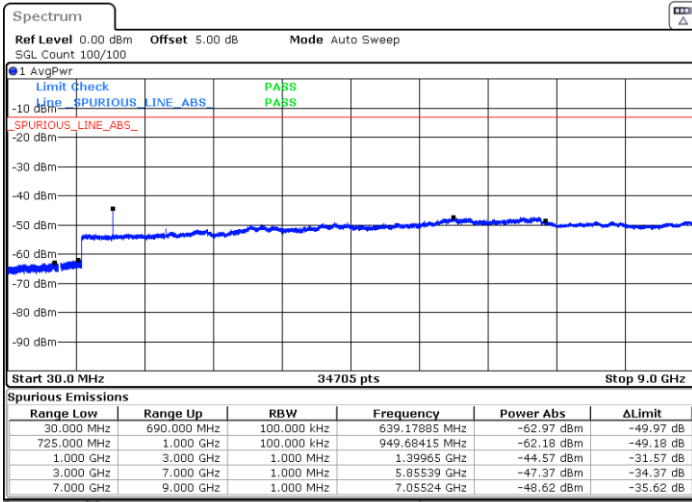
Date: 28.FEB.2024 01:46:41



LTE Band 12 / 10MHz

Lowest Channel / QPSK

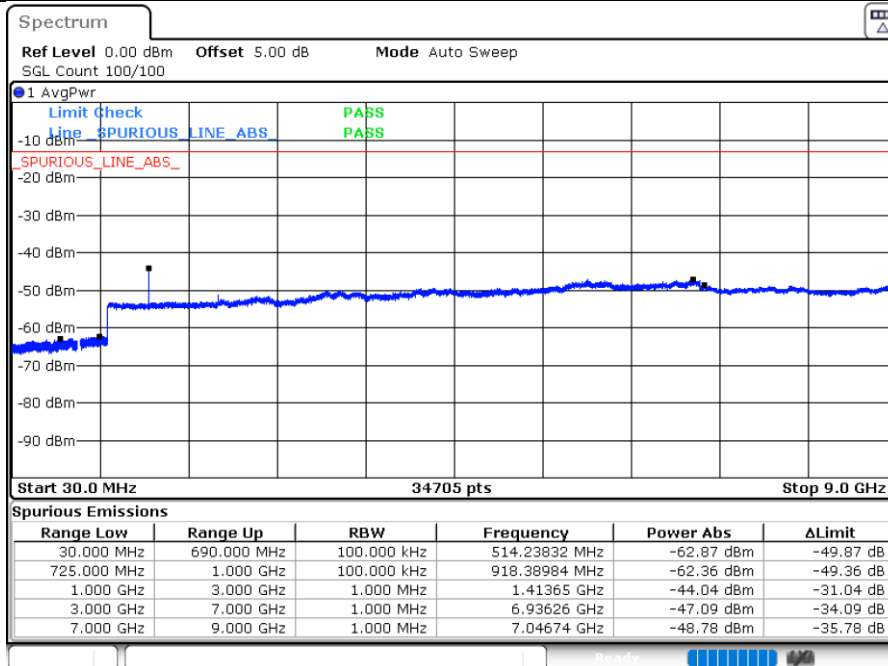
Middle Channel / QPSK



Date: 28.FEB.2024 02:09:25

Date: 28.FEB.2024 02:15:16

Highest Channel / QPSK



Date: 28.FEB.2024 02:19:20



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	0.0026	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0036	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.53 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41 (Main PA)

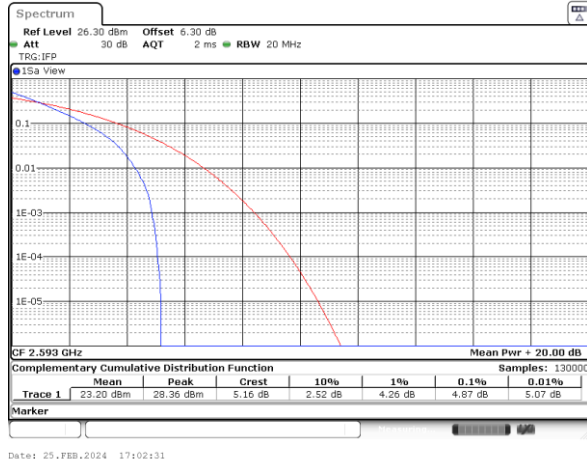
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.88	6.32	PASS



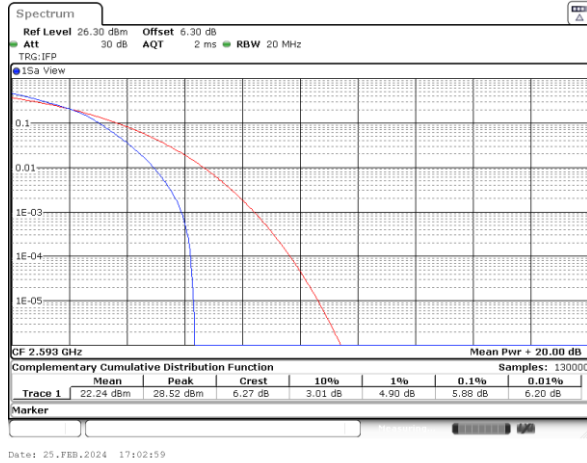
LTE Band 41 / 20MHz

Middle Channel / Full RB / QPSK



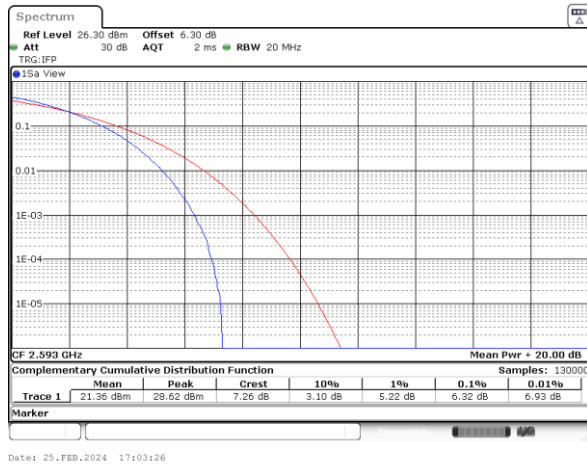
Date: 25.FEB.2024 17:02:31

Middle Channel / Full RB / 16QAM



Date: 25.FEB.2024 17:02:59

Middle Channel / Full RB / 64QAM

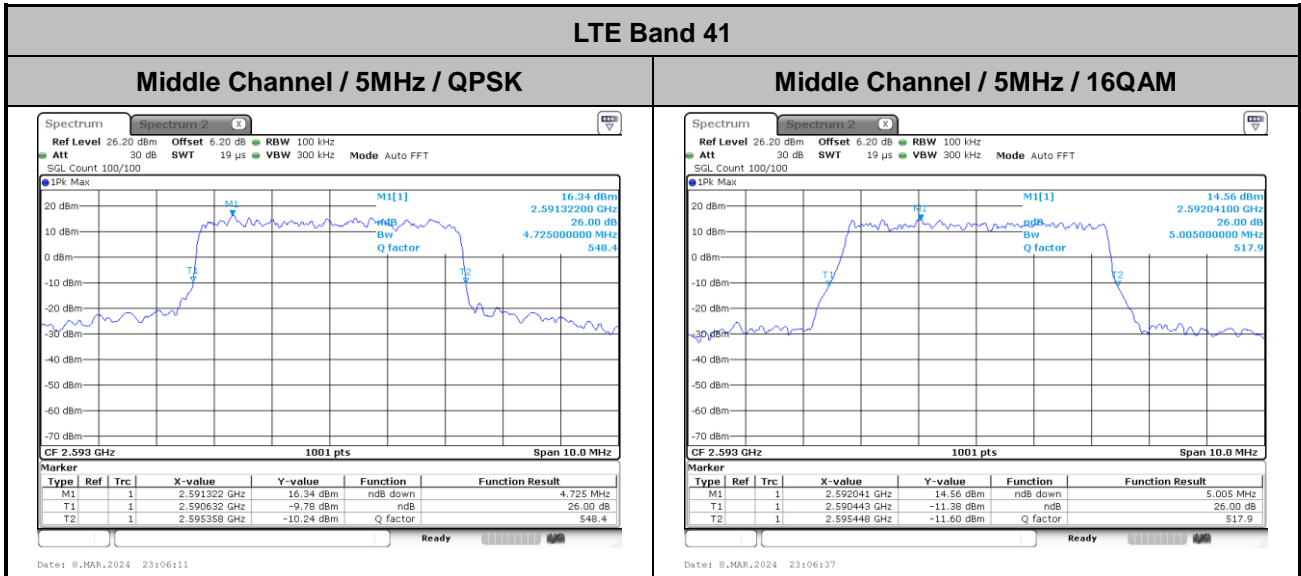


Date: 25.FEB.2024 17:03:26



26dB Bandwidth

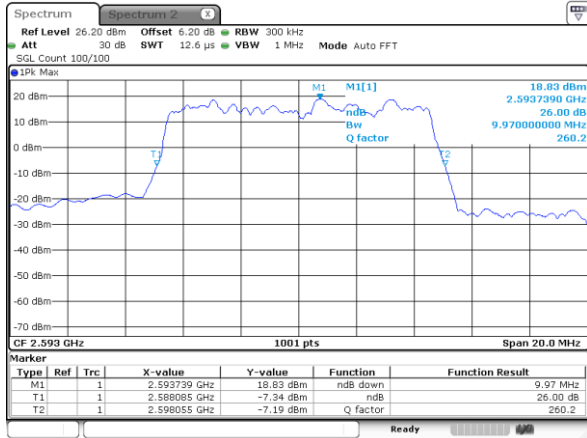
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.73	5.01
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.97	9.69
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.72	14.42
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.90	18.70





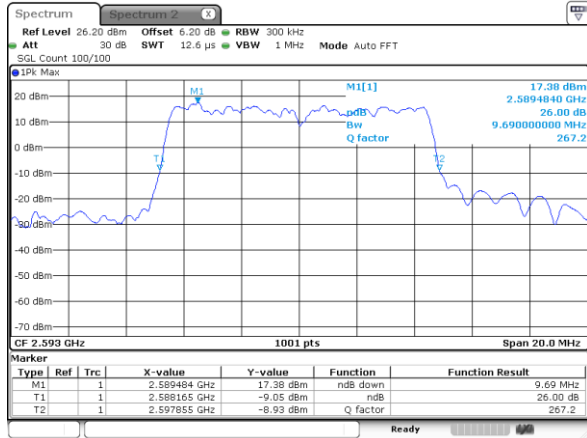
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 8.MAR.2024 23:08:16

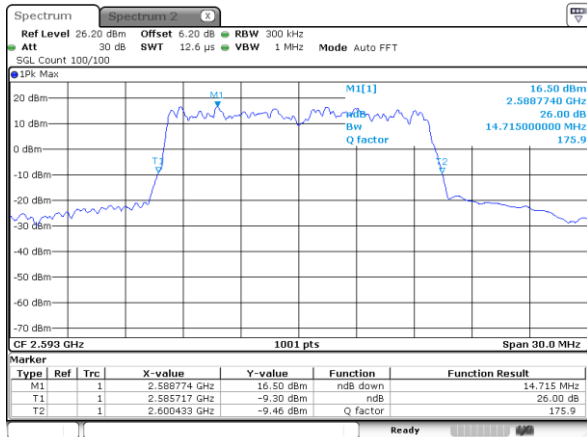
Middle Channel / 10MHz / 16QAM



Date: 8.MAR.2024 23:08:42

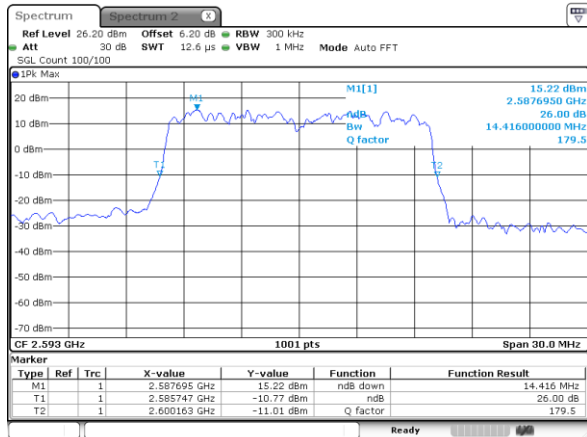
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 8.MAR.2024 23:10:21

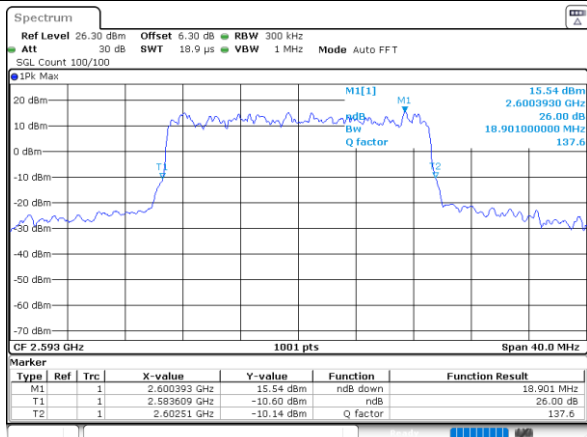
Middle Channel / 15MHz / 16QAM



Date: 8.MAR.2024 23:10:47

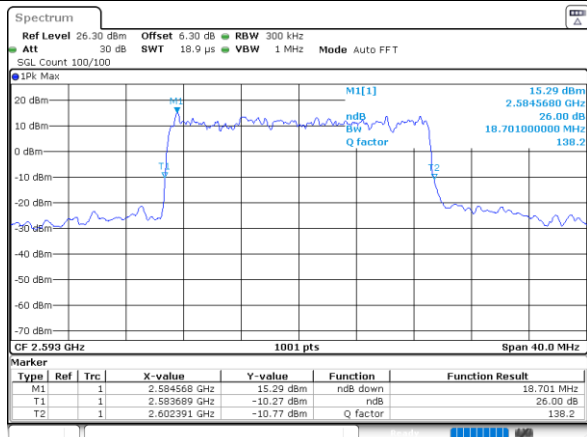
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25.FEB.2024 17:01:07

Middle Channel / 20MHz / 16QAM

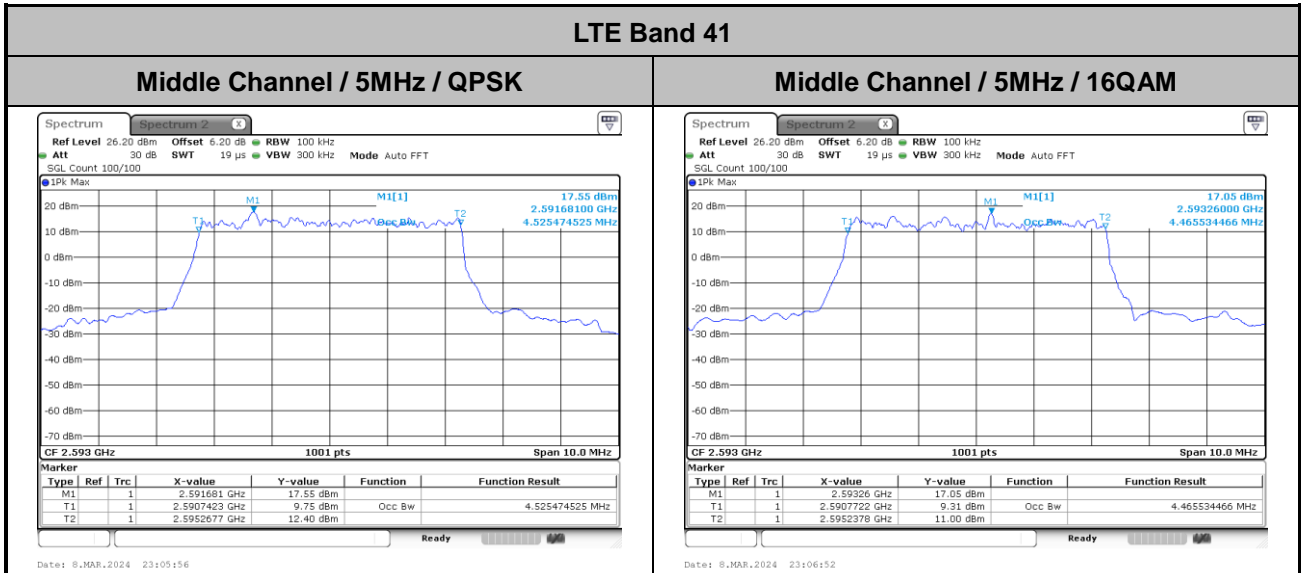


Date: 25.FEB.2024 17:02:03



Occupied Bandwidth

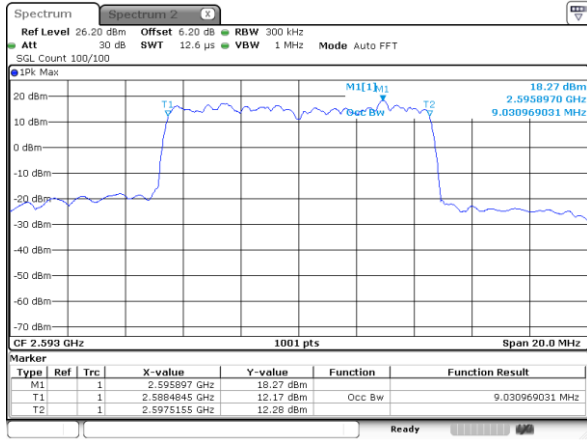
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.53	4.47
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.99
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.40	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.86





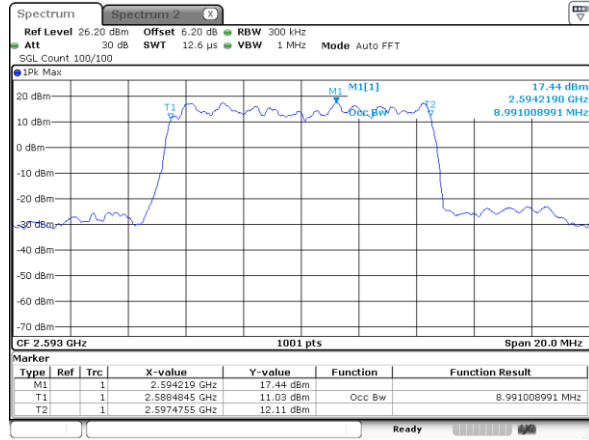
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 8.MAR.2024 23:08:01

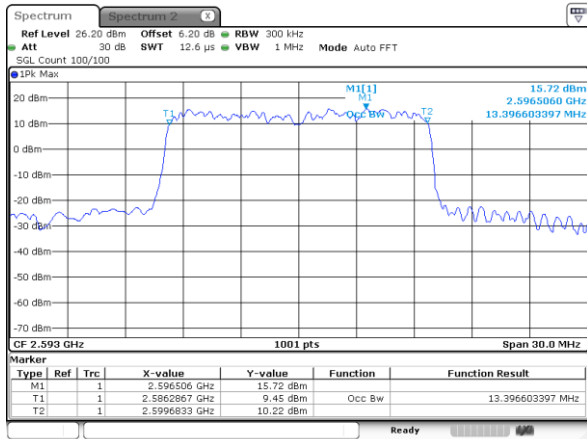
Middle Channel / 10MHz / 16QAM



Date: 8.MAR.2024 23:08:57

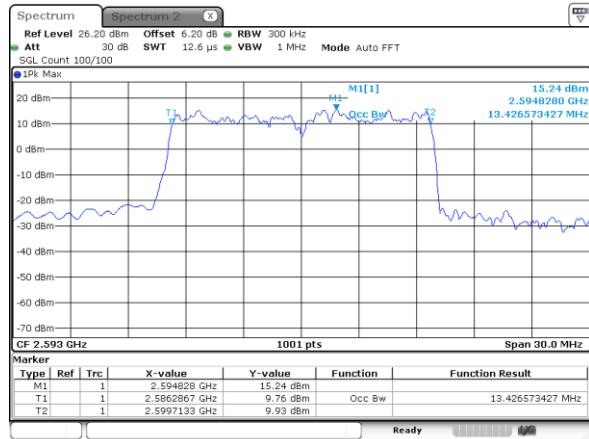
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 8.MAR.2024 23:10:07

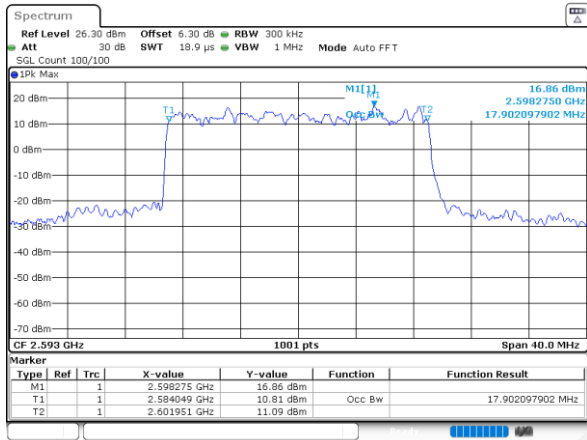
Middle Channel / 15MHz / 16QAM



Date: 8.MAR.2024 23:11:02

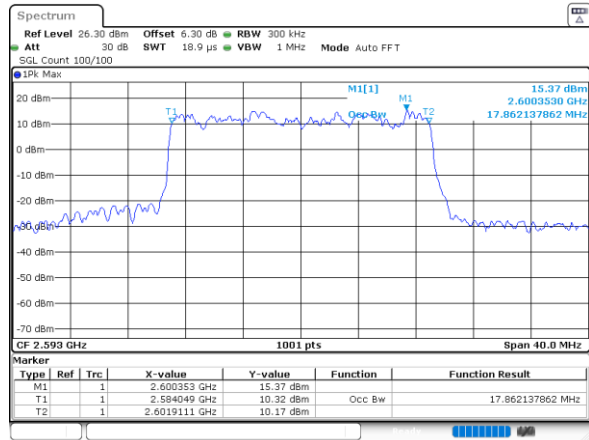
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25.FEB.2024 17:01:22

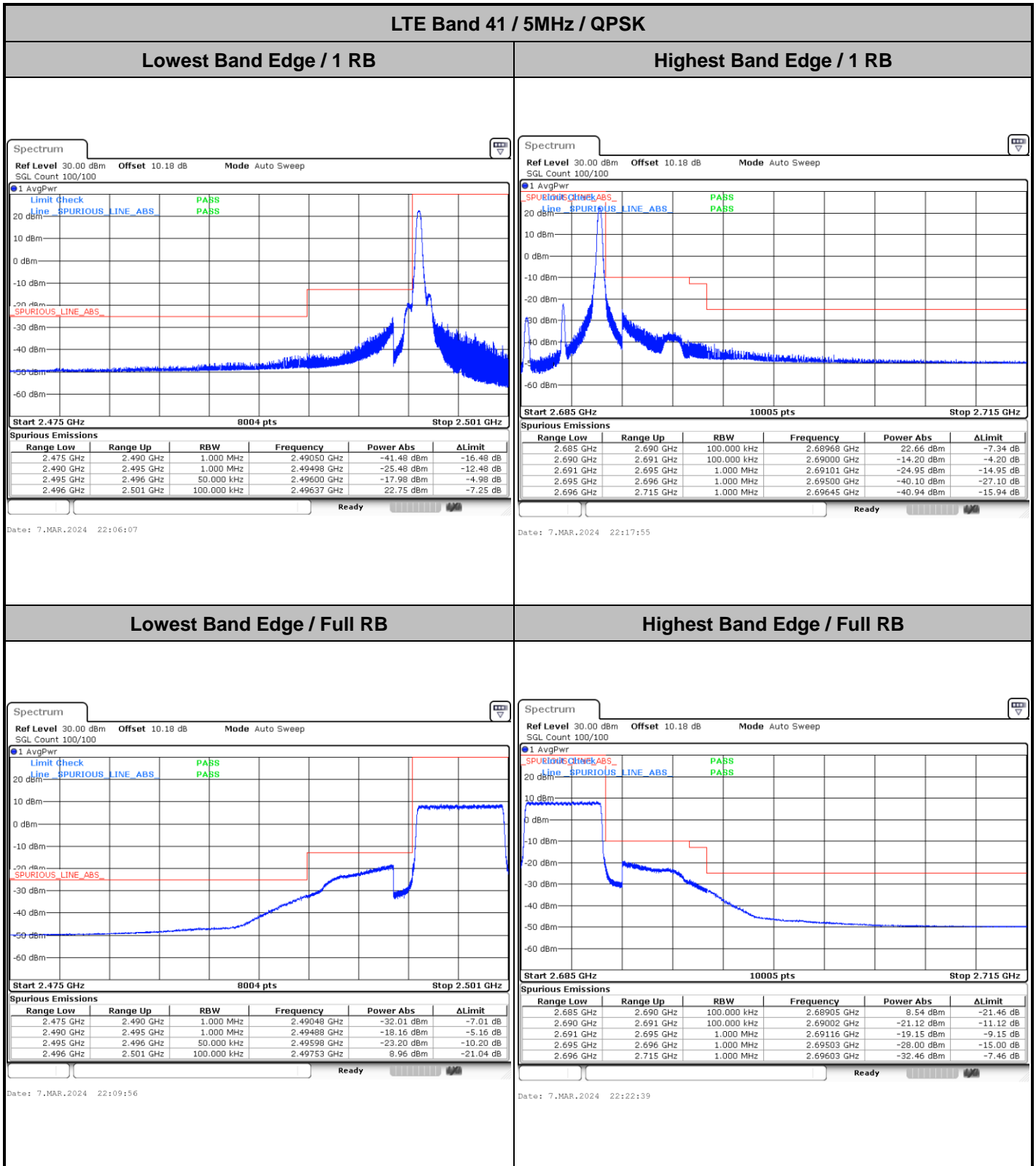
Middle Channel / 20MHz / 16QAM



Date: 25.FEB.2024 17:01:48



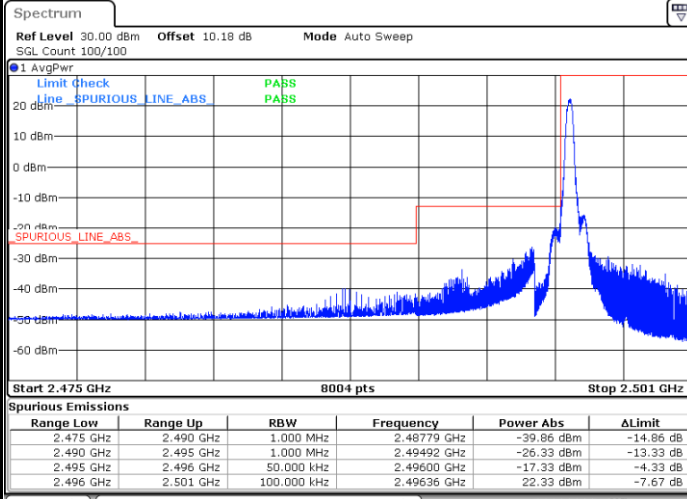
Conducted Band Edge





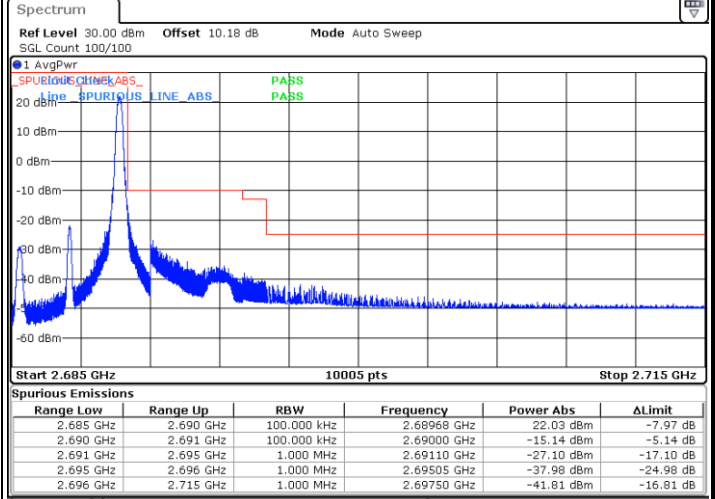
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



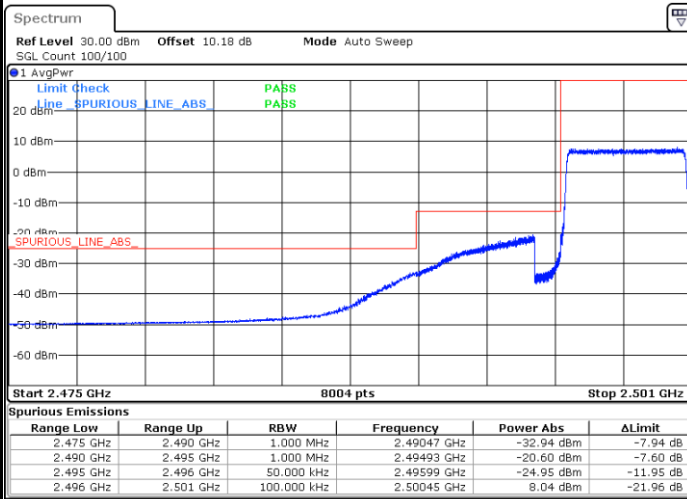
Date: 7.MAR.2024 22:07:04

Highest Band Edge / 1 RB



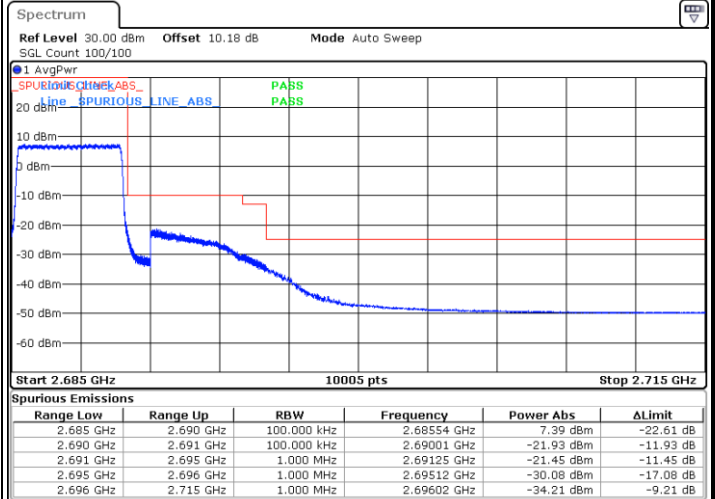
Date: 7.MAR.2024 22:19:05

Lowest Band Edge / Full RB



Date: 7.MAR.2024 22:10:52

Highest Band Edge / Full RB

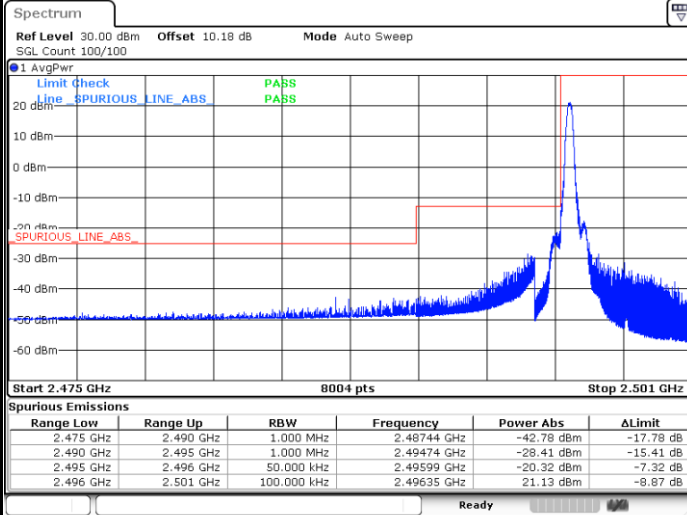


Date: 7.MAR.2024 22:23:49



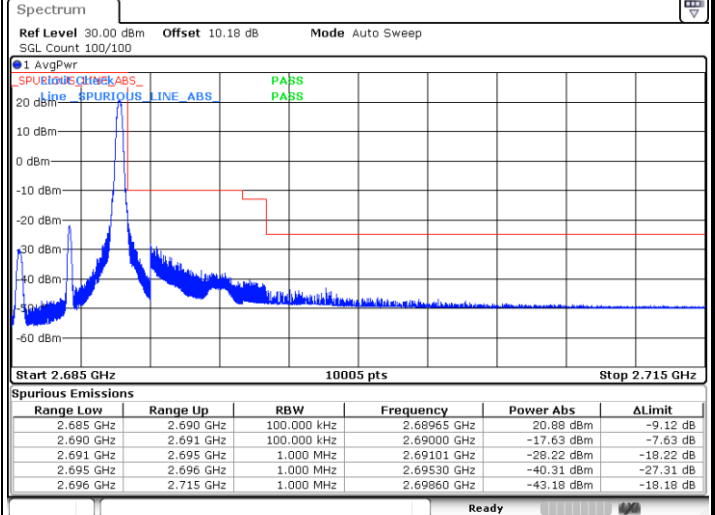
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



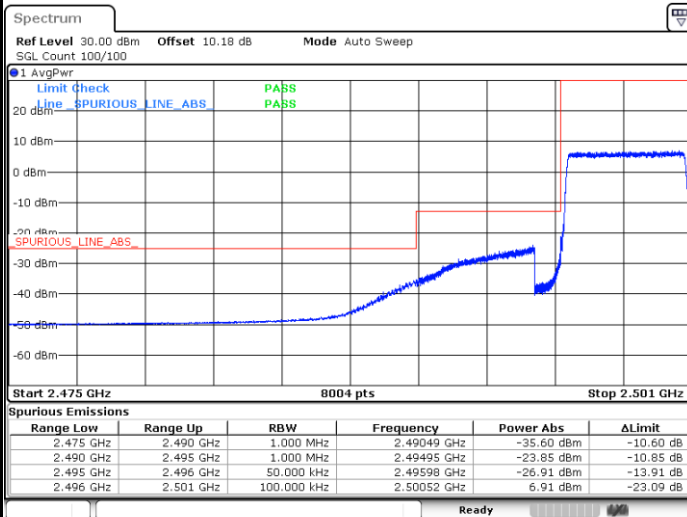
Date: 7.MAR.2024 22:08:00

Highest Band Edge / 1 RB



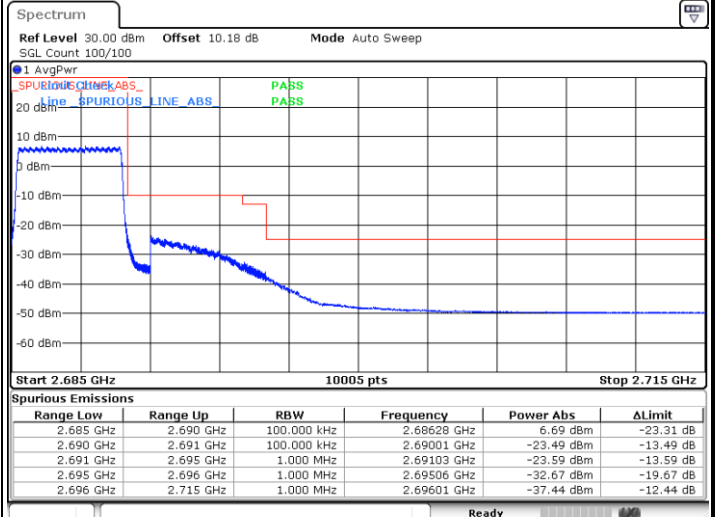
Date: 7.MAR.2024 22:20:16

Lowest Band Edge / Full RB



Date: 7.MAR.2024 22:11:49

Highest Band Edge / Full RB



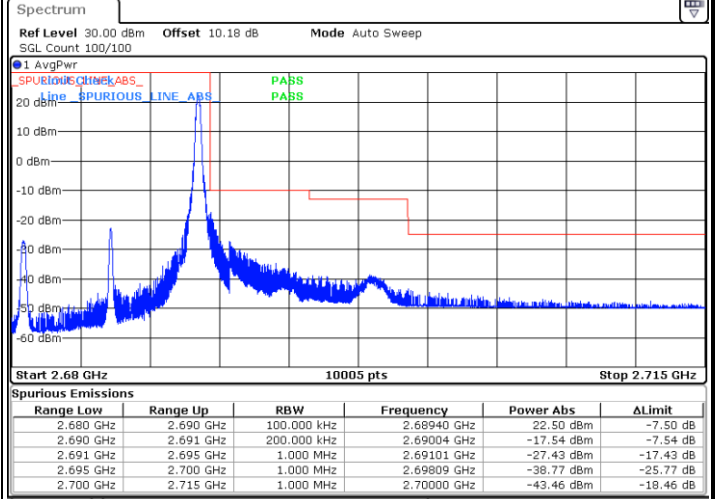
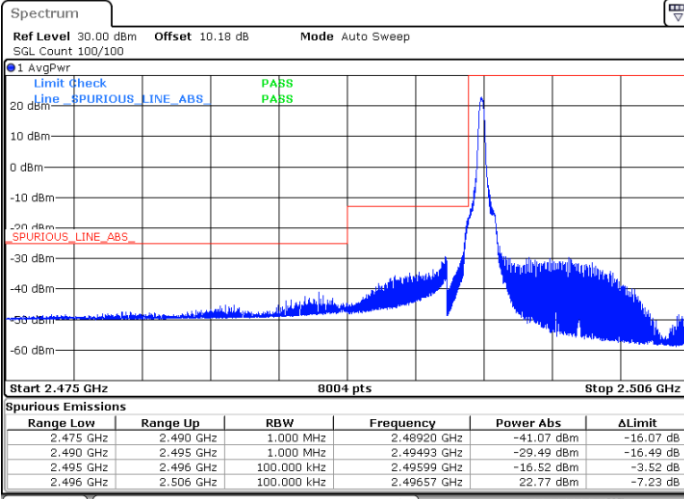
Date: 7.MAR.2024 22:24:59



LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

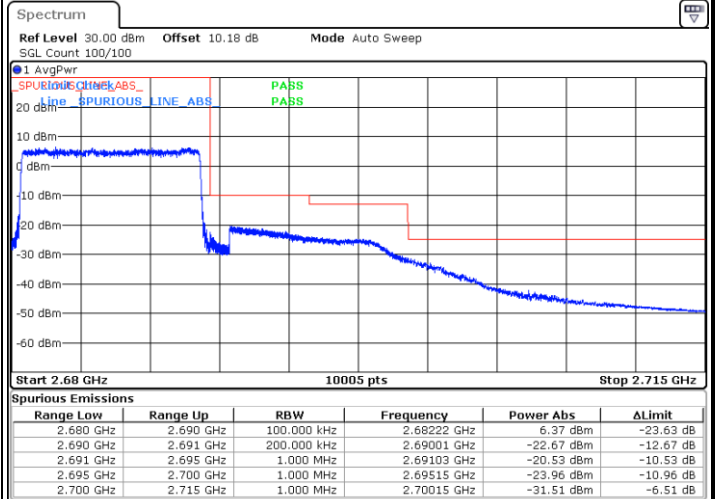
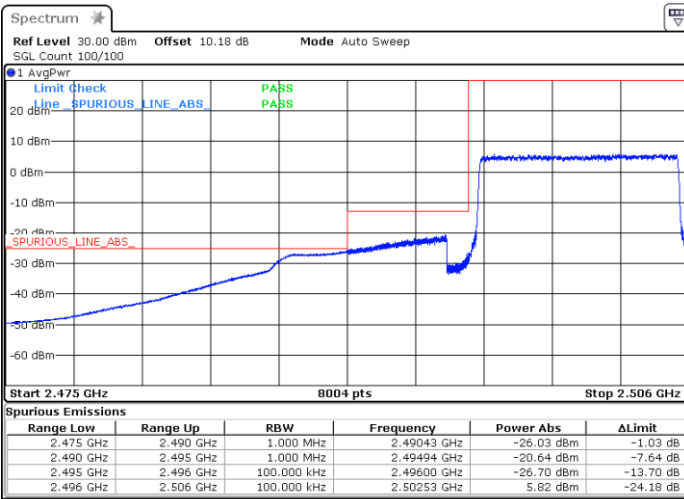


Date: 7.MAR.2024 22:28:03

Date: 7.MAR.2024 22:37:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.MAR.2024 23:36:45

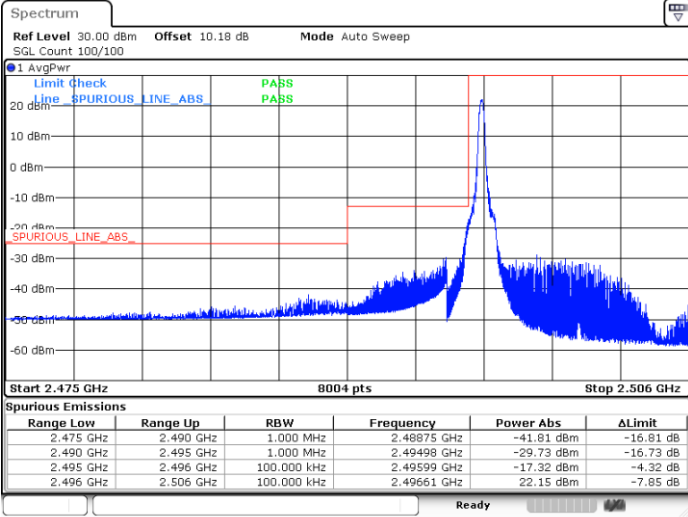
Date: 7.MAR.2024 22:42:24



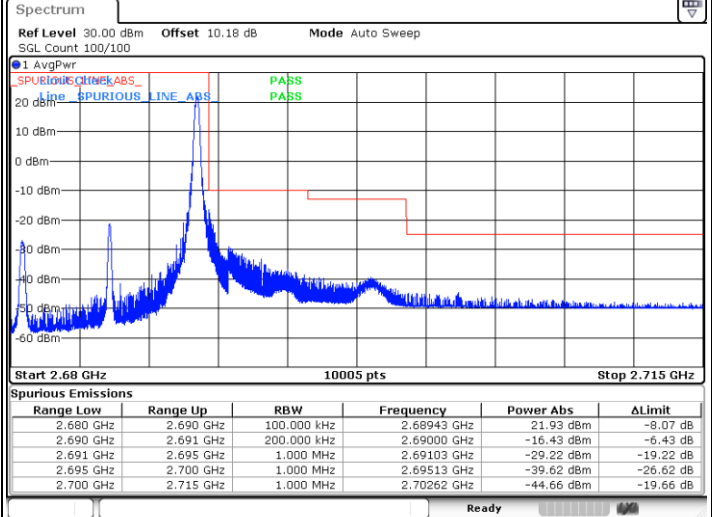
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



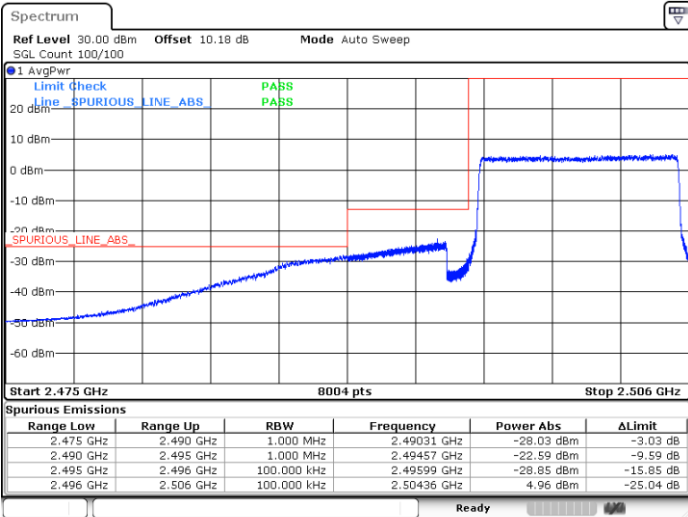
Date: 7.MAR.2024 22:29:15



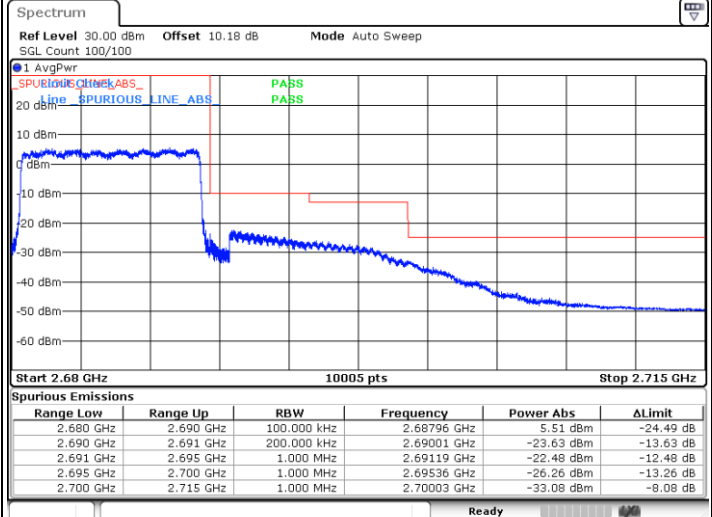
Date: 7.MAR.2024 22:38:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.MAR.2024 22:34:04

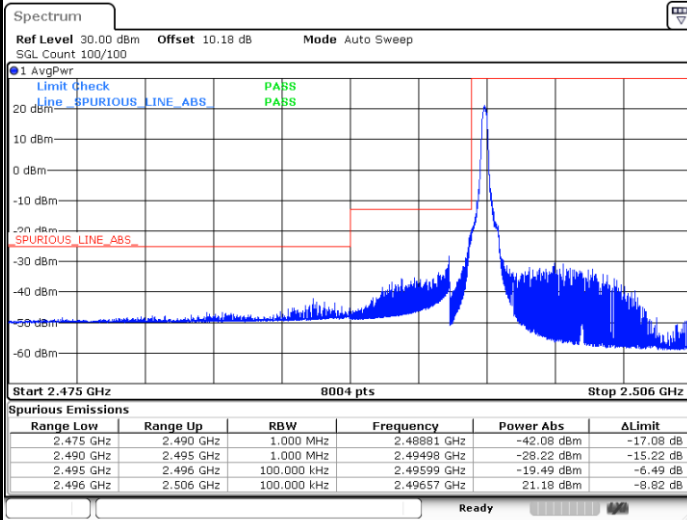


Date: 7.MAR.2024 22:43:35



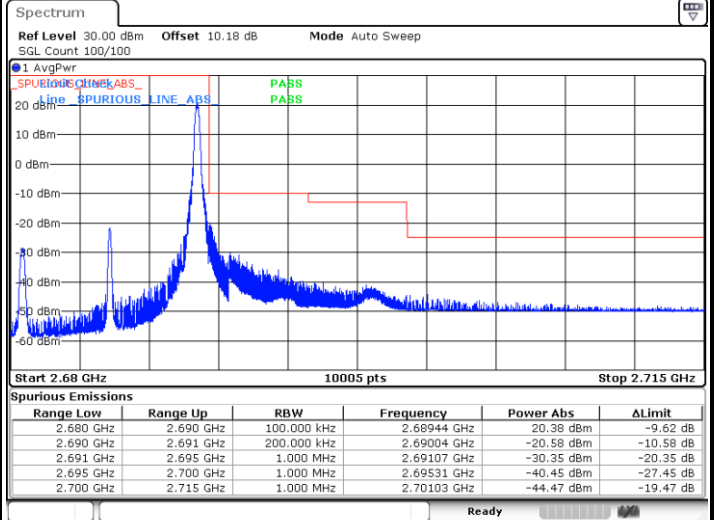
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



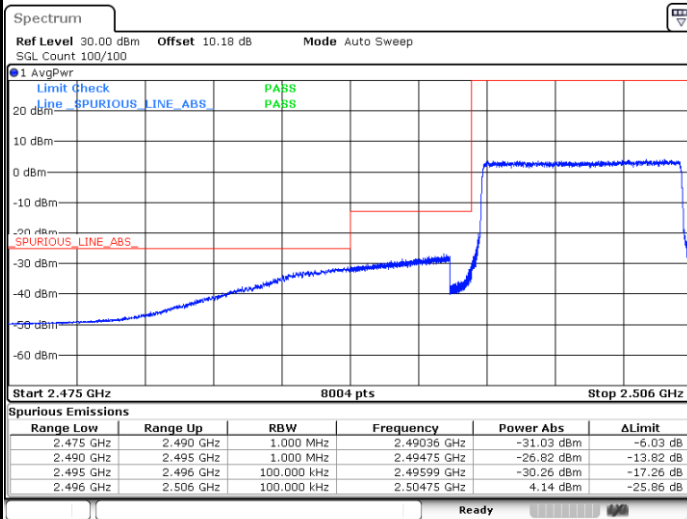
Date: 7.MAR.2024 22:30:27

Highest Band Edge / 1 RB



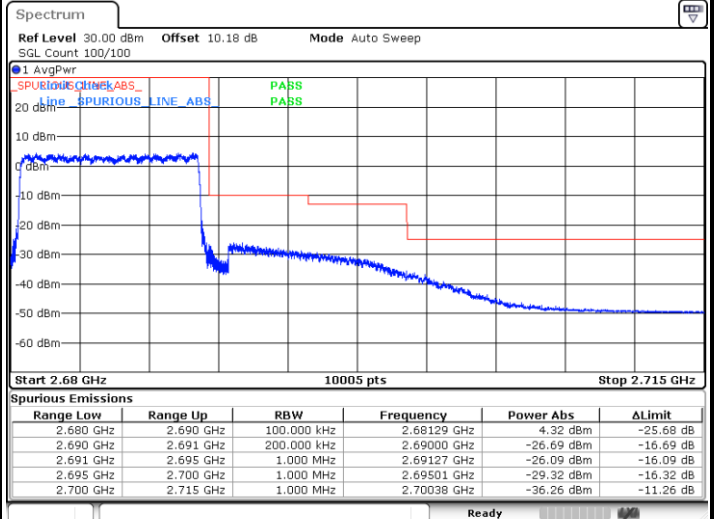
Date: 7.MAR.2024 22:40:02

Lowest Band Edge / Full RB



Date: 7.MAR.2024 22:35:16

Highest Band Edge / Full RB

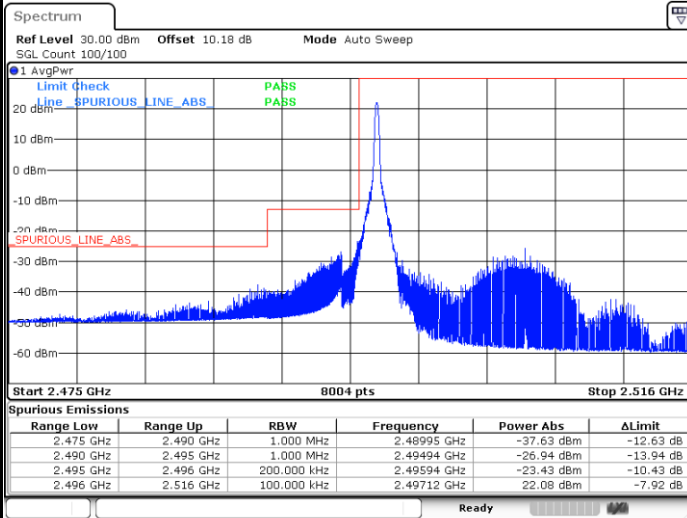


Date: 7.MAR.2024 22:44:46



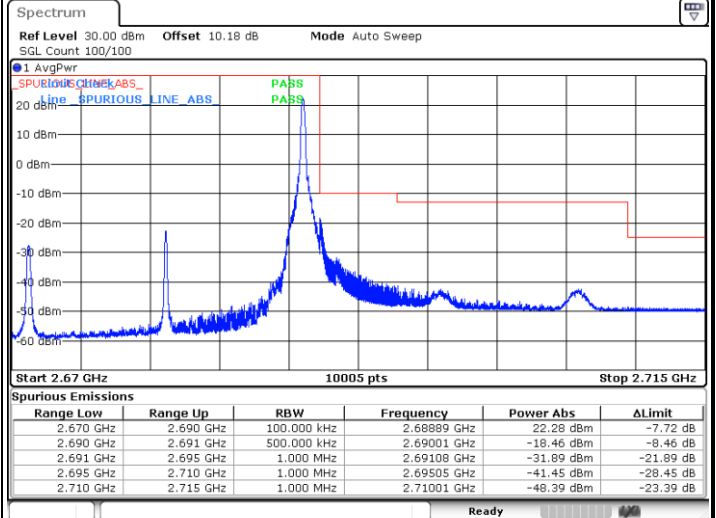
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



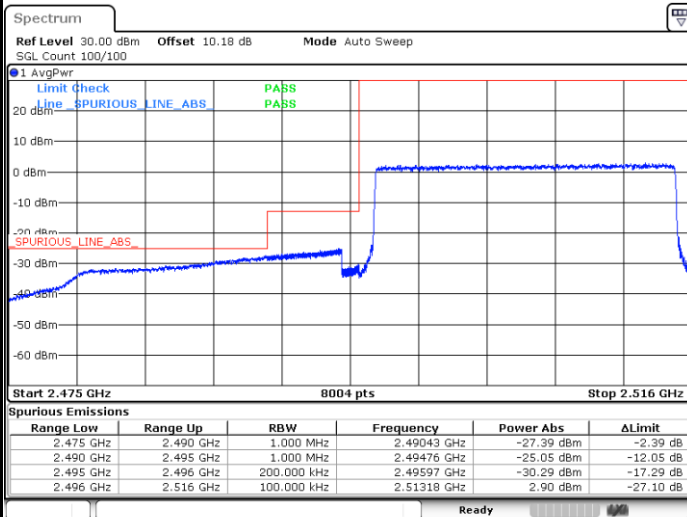
Date: 7.MAR.2024 23:07:27

Highest Band Edge / 1 RB



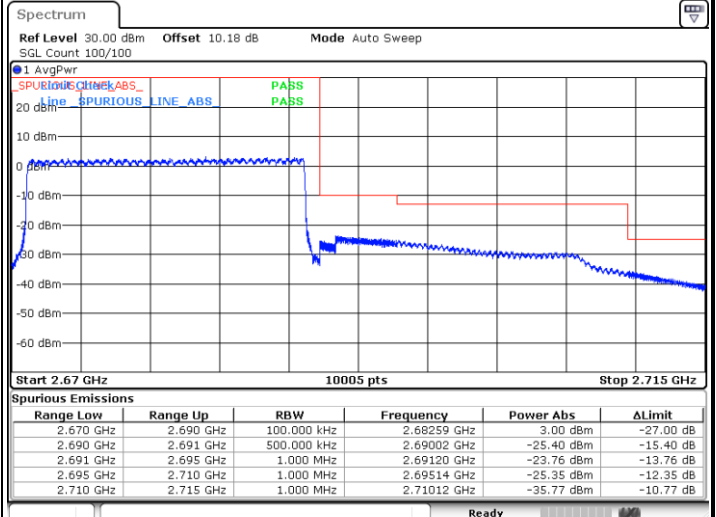
Date: 7.MAR.2024 23:17:00

Lowest Band Edge / Full RB



Date: 7.MAR.2024 23:12:14

Highest Band Edge / Full RB

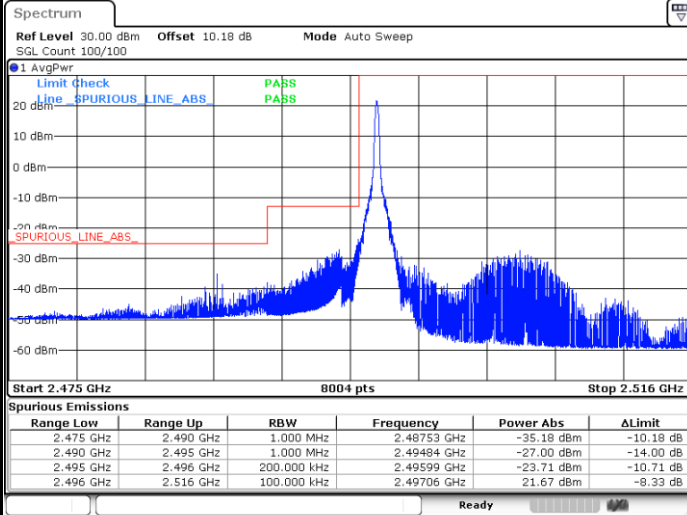


Date: 7.MAR.2024 23:21:44



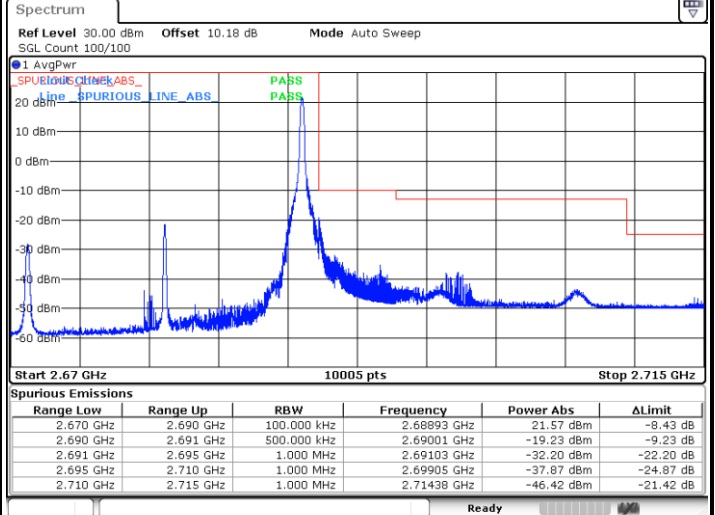
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



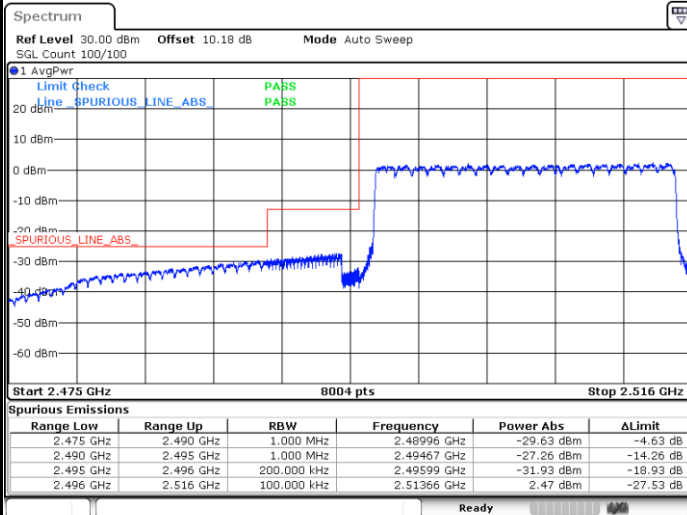
Date: 7.MAR.2024 23:08:38

Highest Band Edge / 1 RB



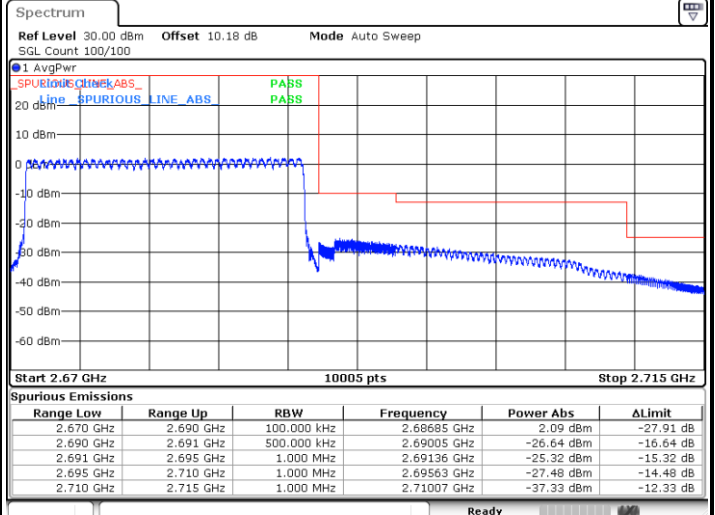
Date: 7.MAR.2024 23:18:10

Lowest Band Edge / Full RB



Date: 7.MAR.2024 23:13:24

Highest Band Edge / Full RB

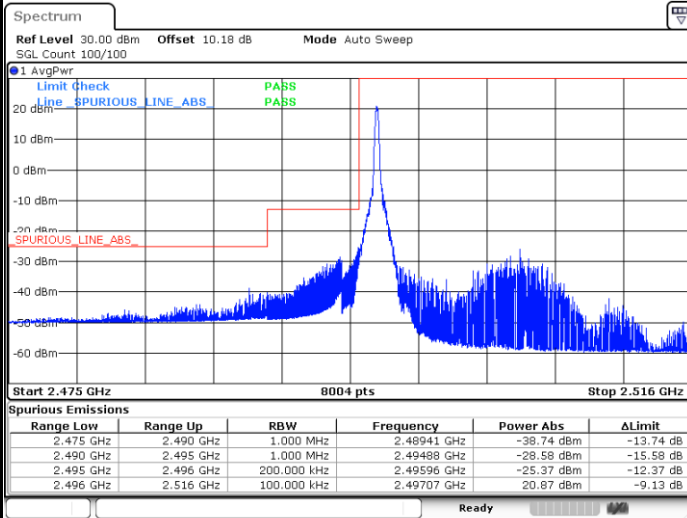


Date: 7.MAR.2024 23:22:54



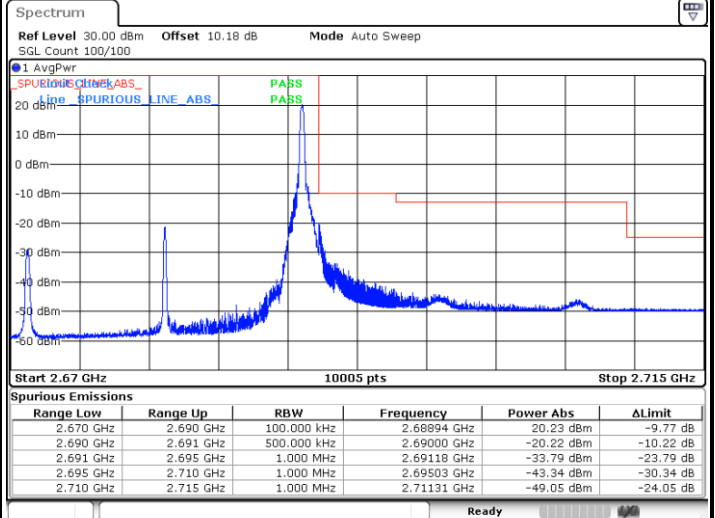
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



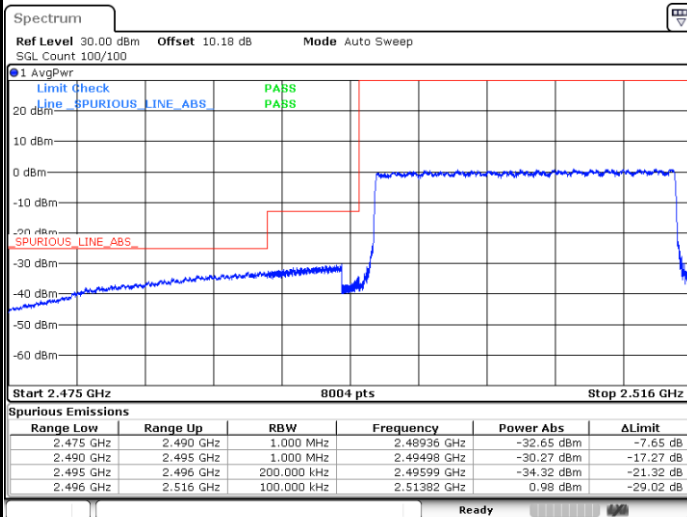
Date: 7.MAR.2024 23:09:49

Highest Band Edge / 1 RB



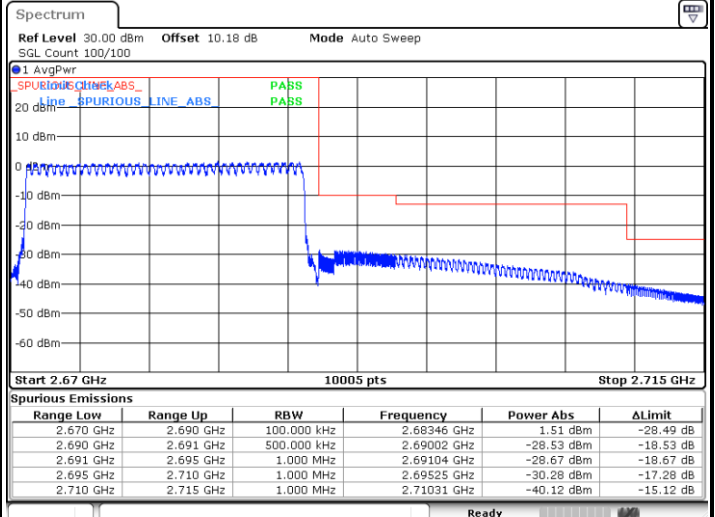
Date: 7.MAR.2024 23:19:21

Lowest Band Edge / Full RB



Date: 7.MAR.2024 23:14:35

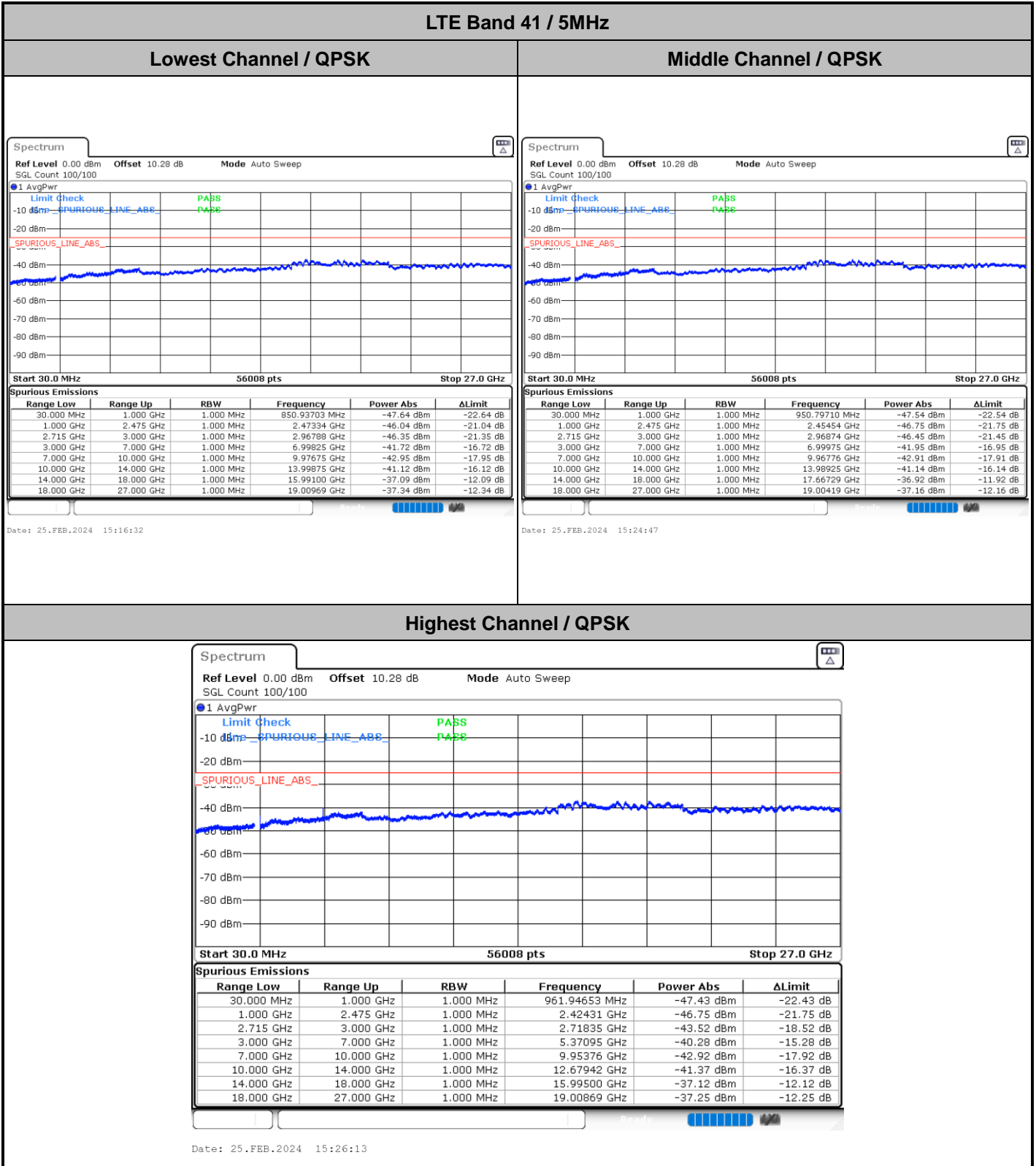
Highest Band Edge / Full RB



Date: 7.MAR.2024 23:24:04



Conducted Spurious Emission

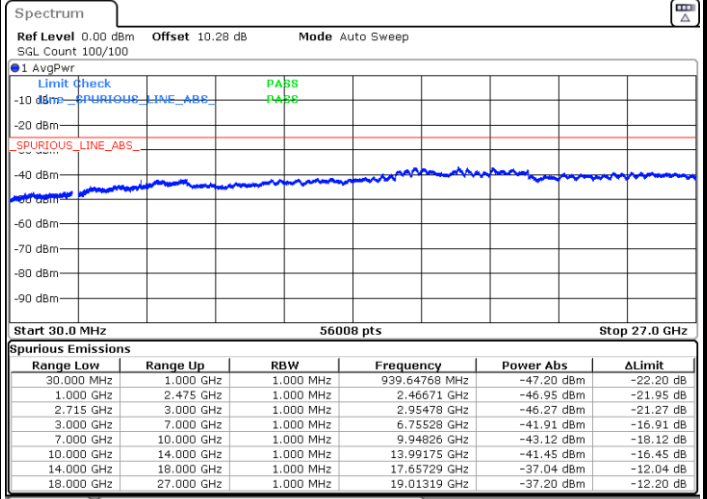
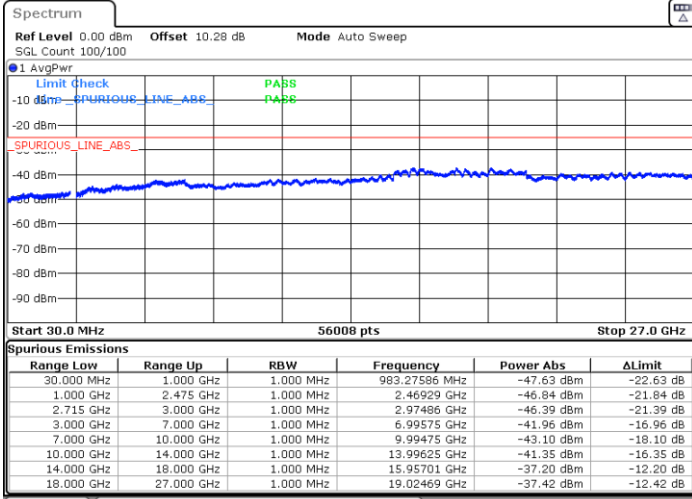




LTE Band 41 / 10MHz

Lowest Channel / QPSK

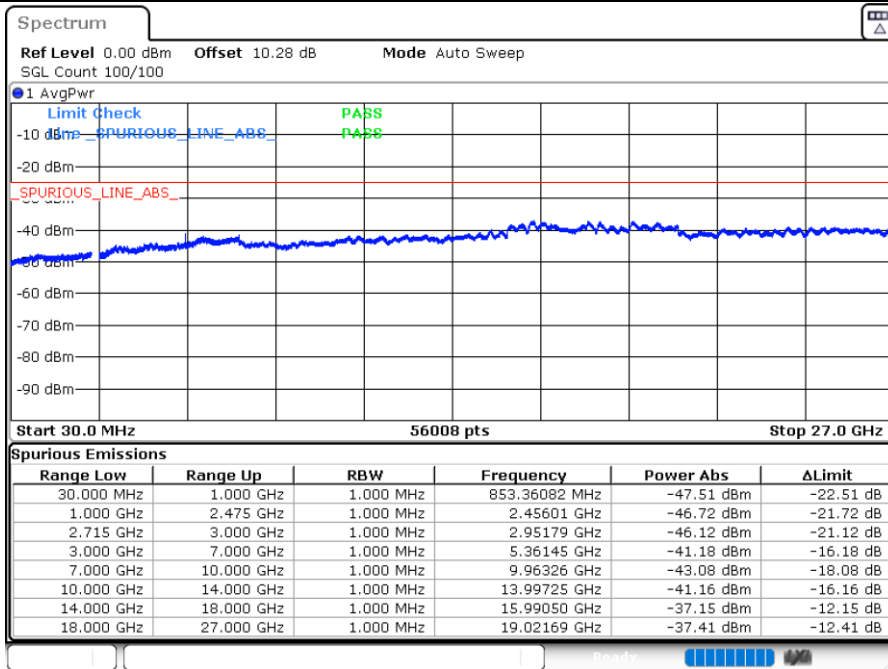
Middle Channel / QPSK



Date: 25.FEB.2024 15:37:04

Date: 25.FEB.2024 15:44:53

Highest Channel / QPSK



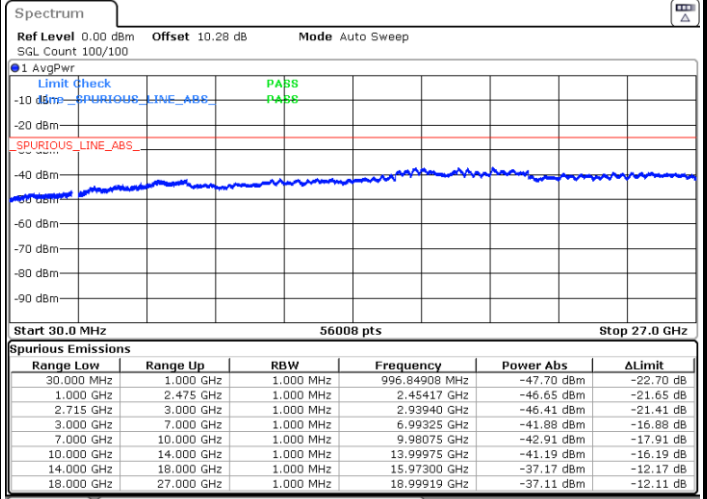
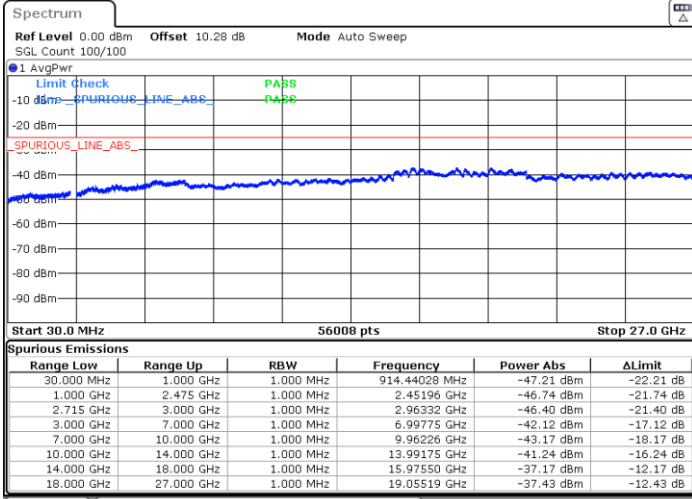
Date: 25.FEB.2024 15:46:18



LTE Band 41 / 20MHz

Lowest Channel / QPSK

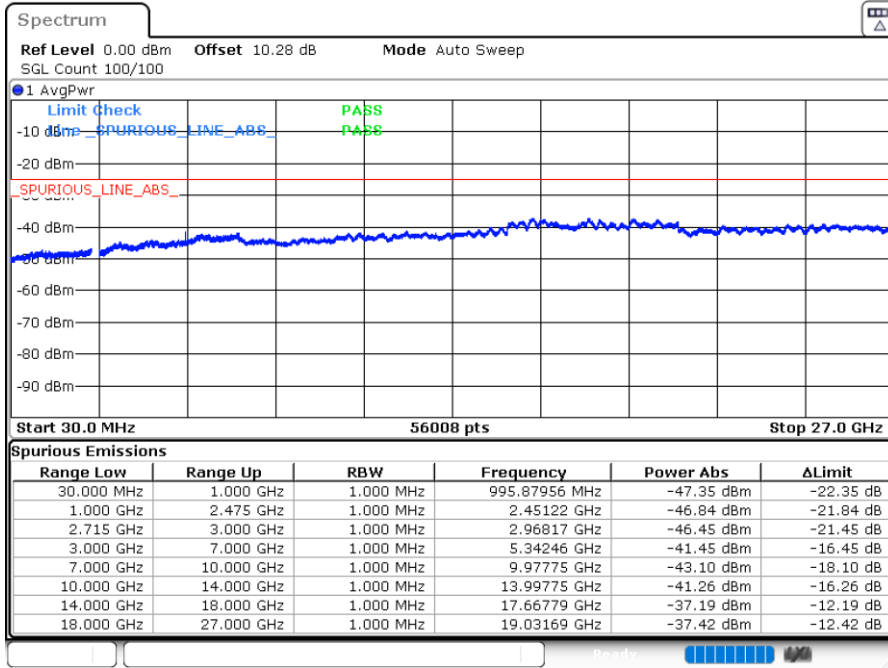
Middle Channel / QPSK



Date: 25.FEB.2024 16:38:48

Date: 25.FEB.2024 16:49:39

Highest Channel / QPSK



Date: 25.FEB.2024 16:51:04



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0033	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.53V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41 (Other PA)

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	4.67	6.84	6.81	PASS