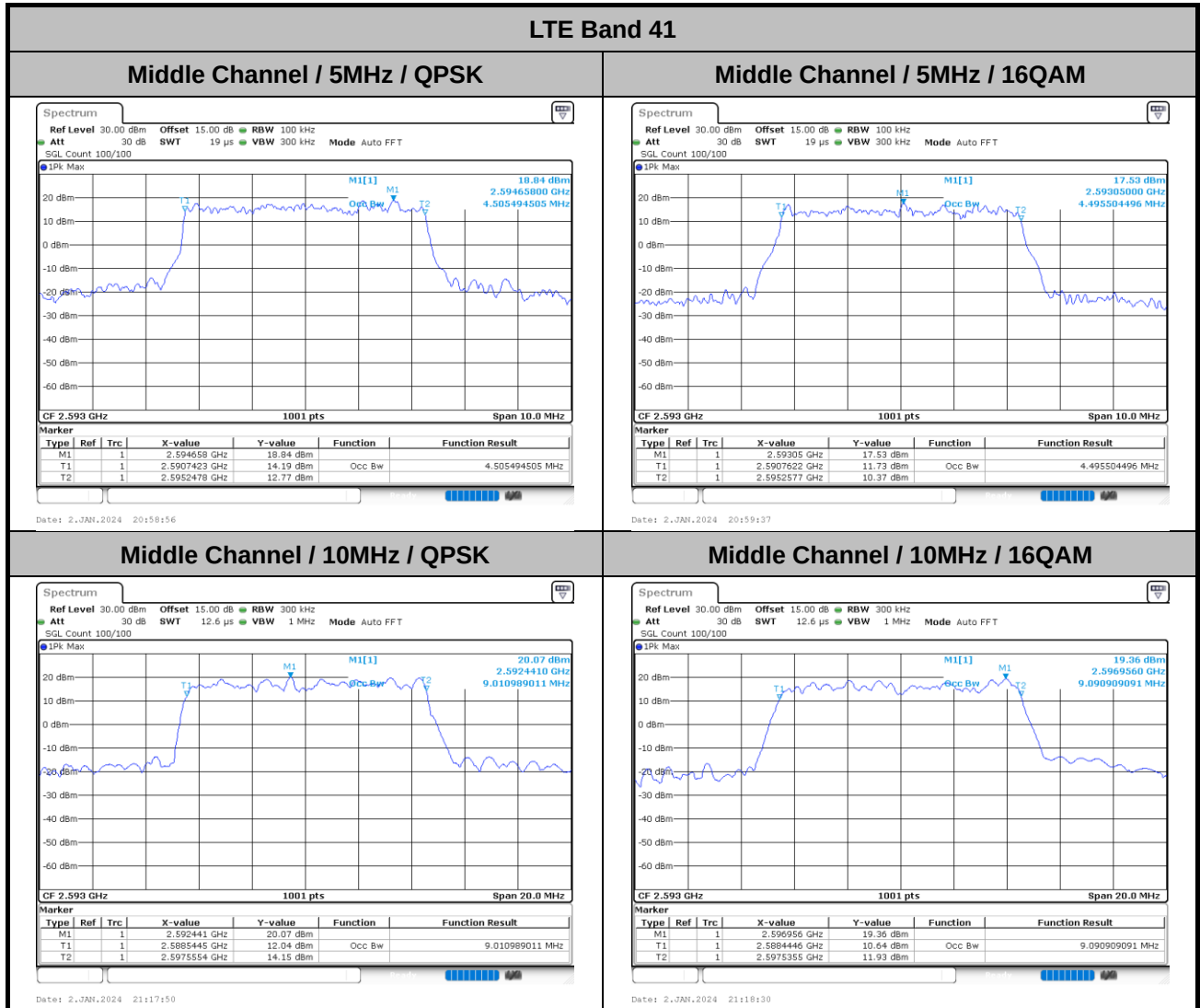




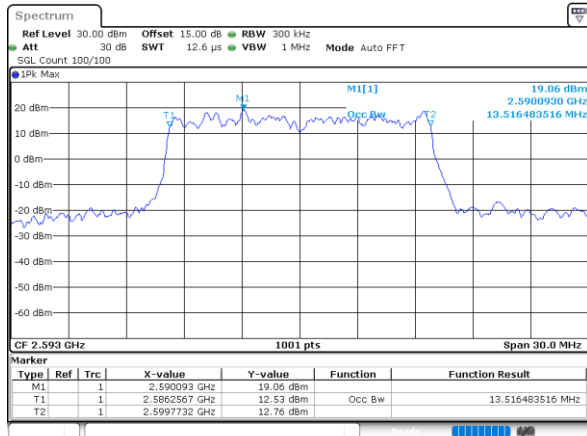
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.51	4.50	9.01	9.09	13.52	13.46	17.90	17.90



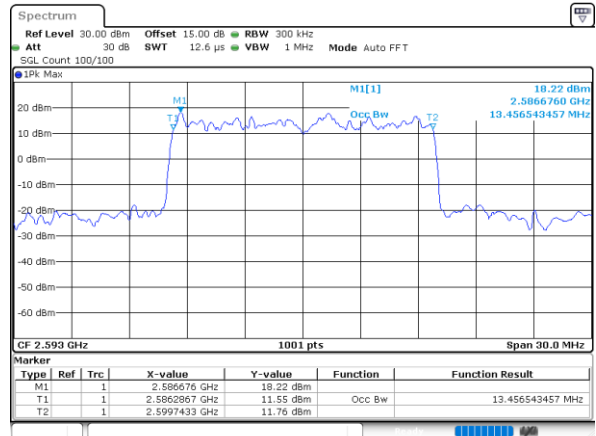


Middle Channel / 15MHz / QPSK



Date: 2, JAN, 2024 21:39:20

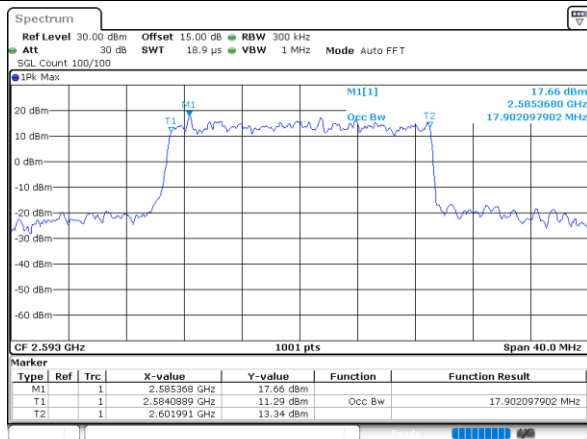
Middle Channel / 15MHz / 16QAM



Date: 2, JAN, 2024 21:40:00

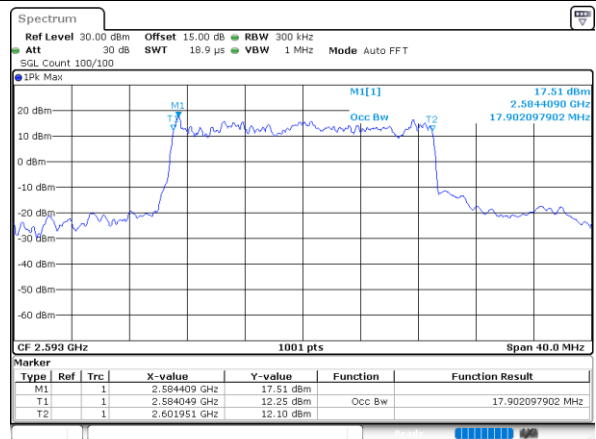
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 2, JAN, 2024 21:57:53

Middle Channel / 20MHz / 16QAM



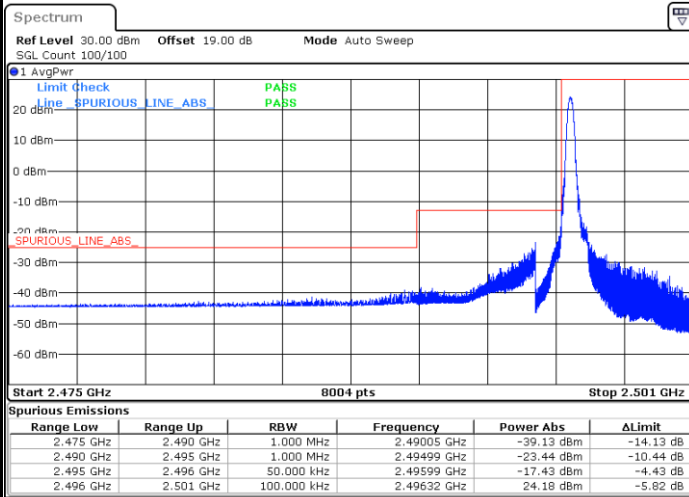
Date: 2, JAN, 2024 21:58:34



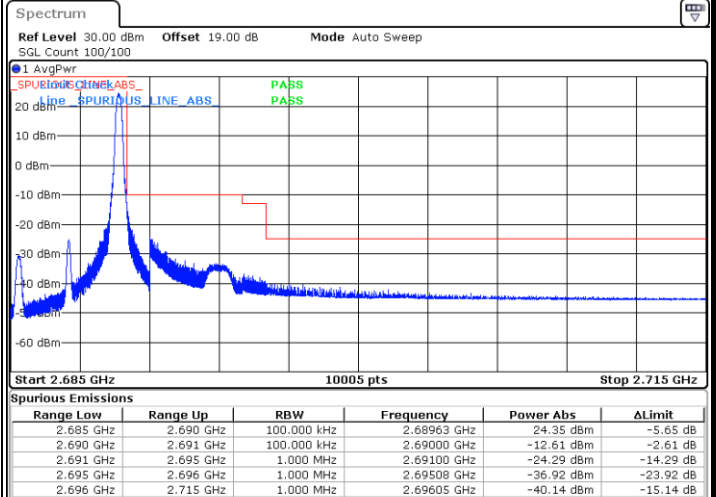
Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

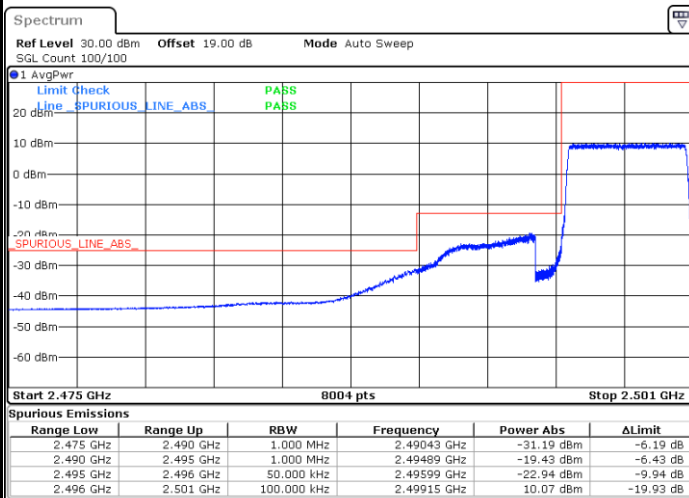
Lowest Band Edge / 1 RB



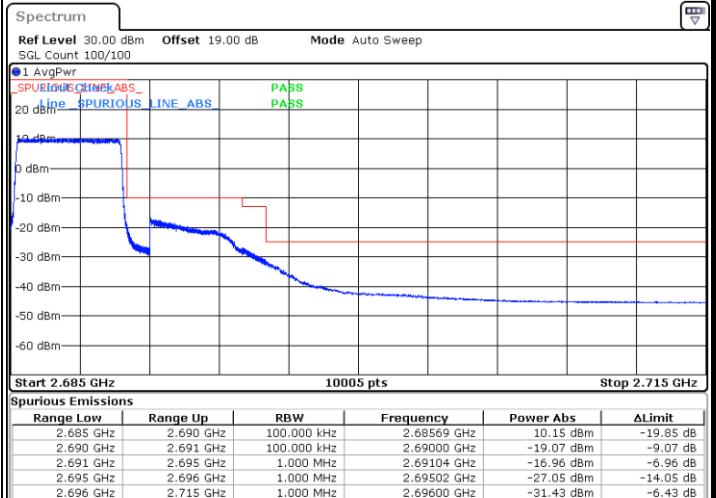
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



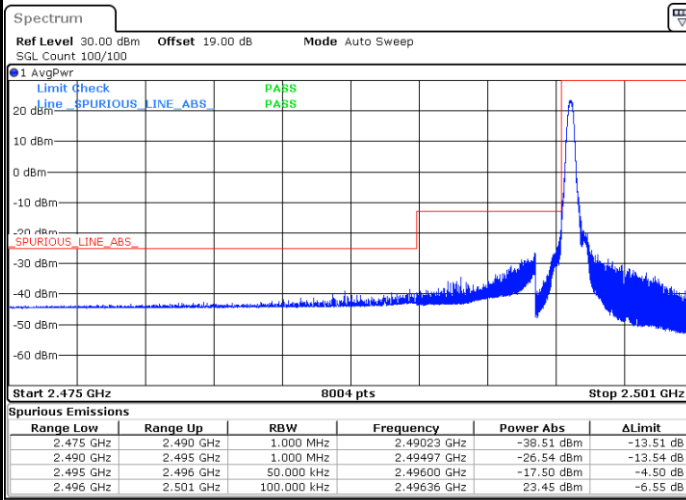
Highest Band Edge / Full RB



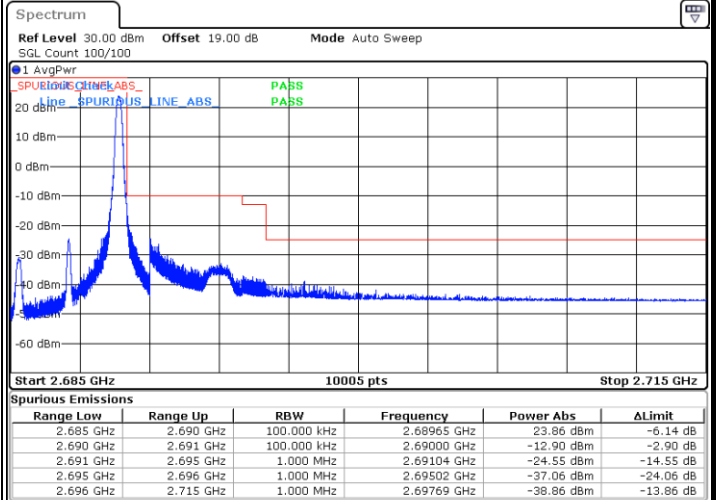


LTE Band 41 / 5MHz / 16QAM

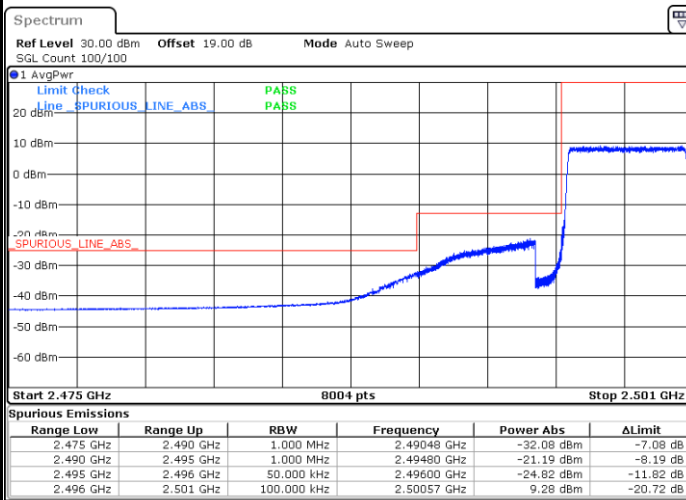
Lowest Band Edge / 1RB



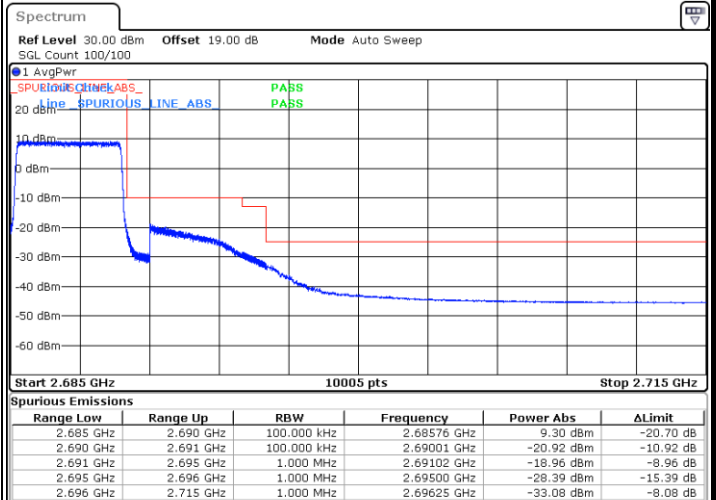
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



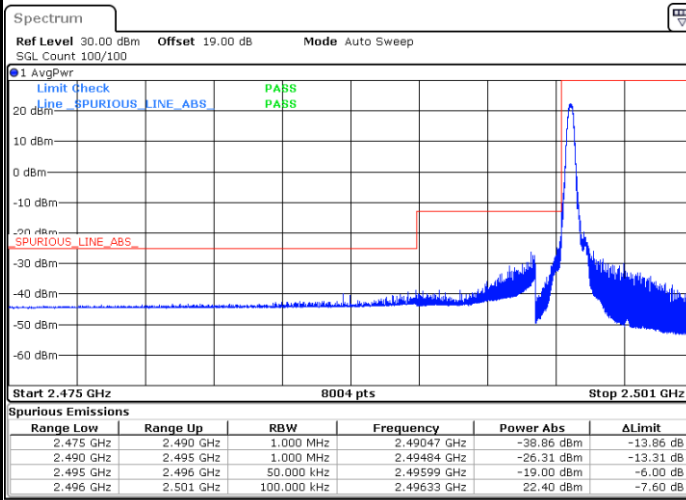
Highest Band Edge / Full RB



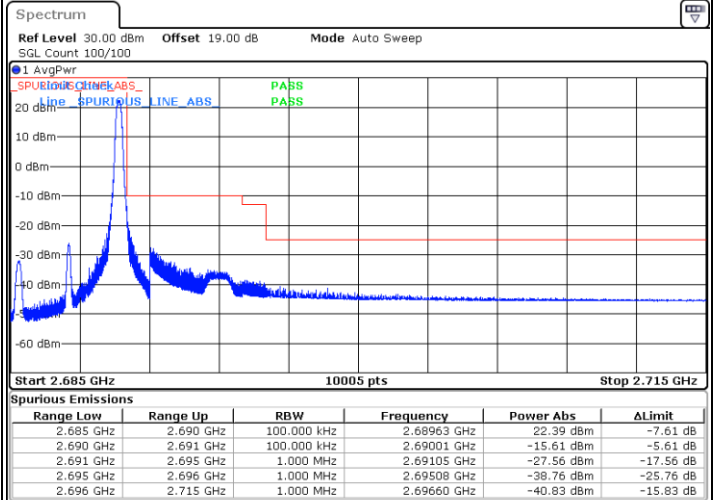


LTE Band 41 / 5MHz / 64QAM

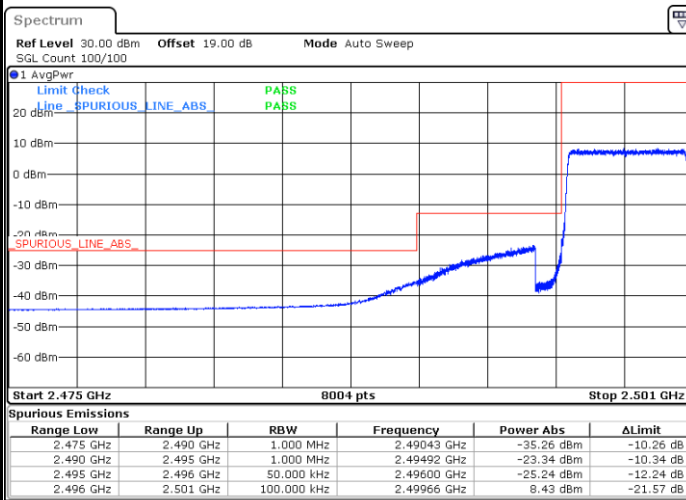
Lowest Band Edge / 1RB



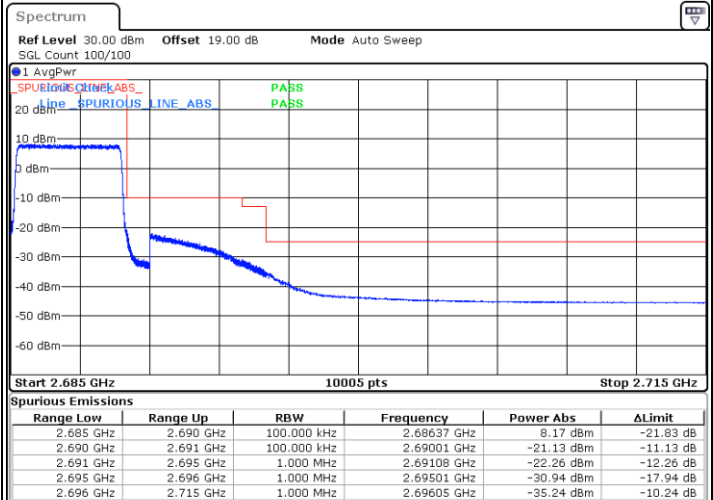
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



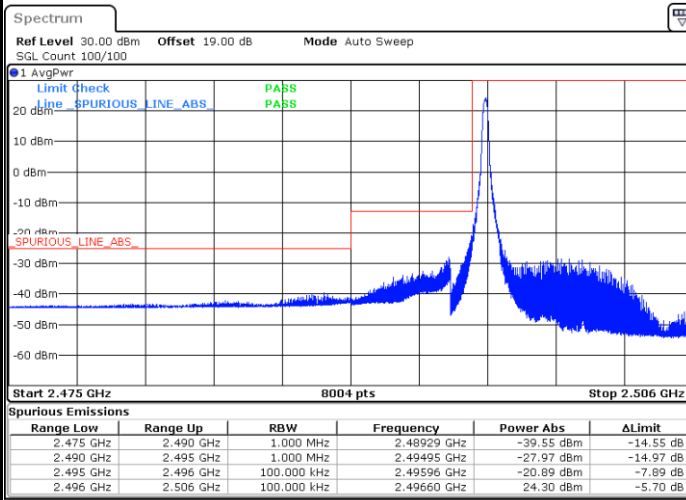
Highest Band Edge / Full RB



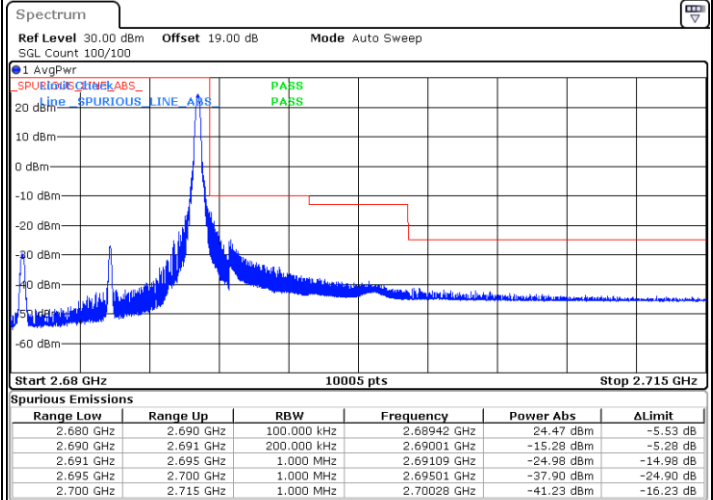


LTE Band 41 / 10MHz / QPSK

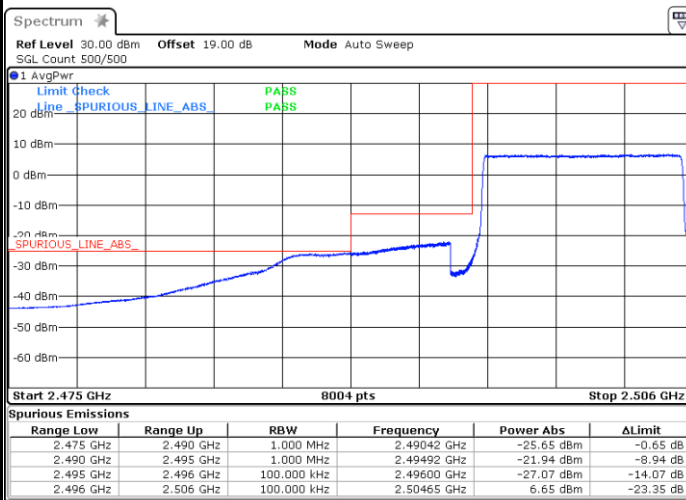
Lowest Band Edge / 1 RB



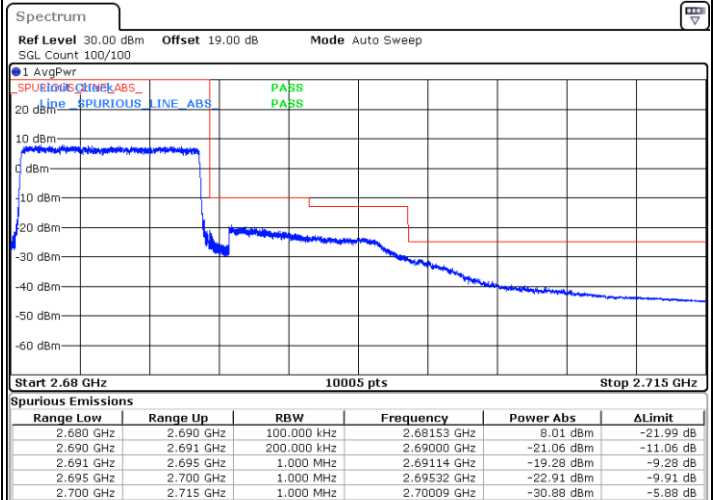
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



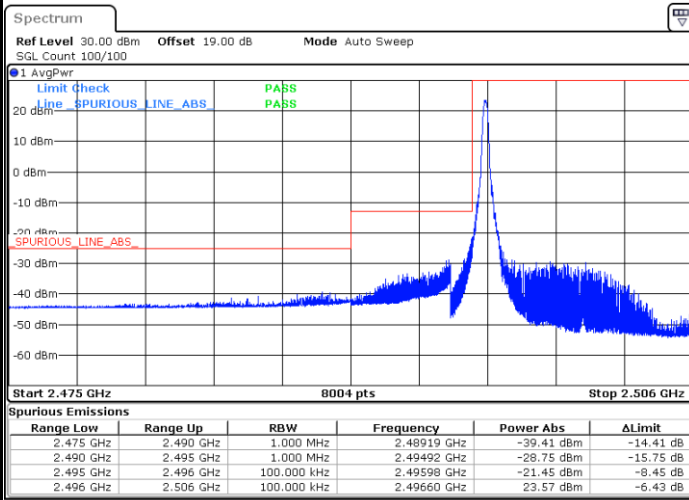
Highest Band Edge / Full RB



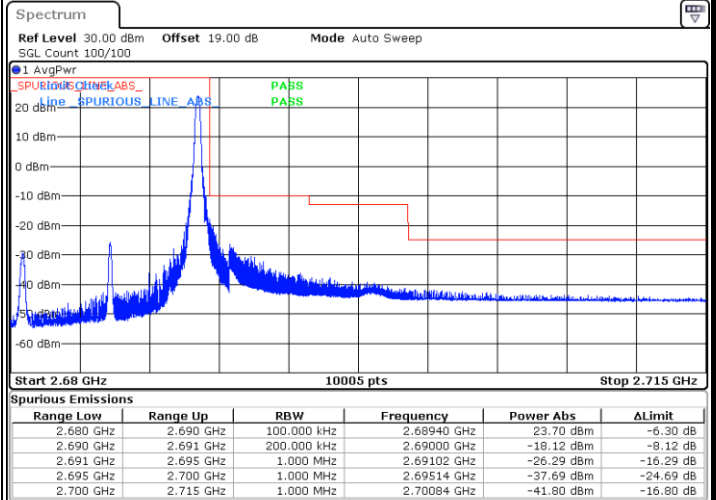


LTE Band 41 / 10MHz / 16QAM

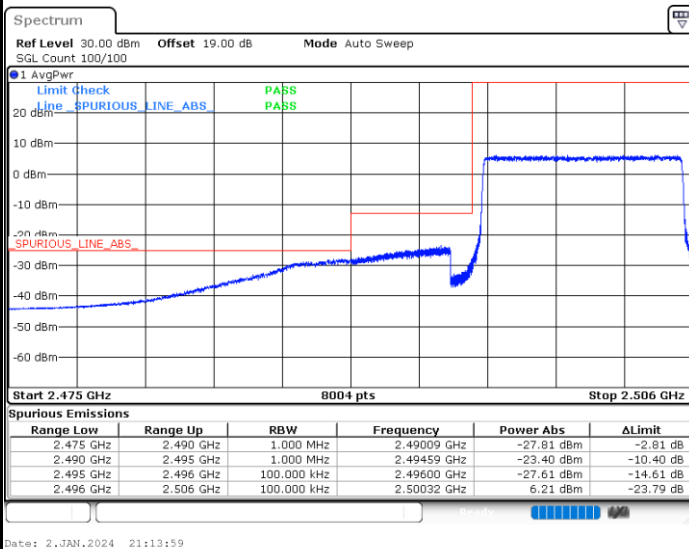
Lowest Band Edge / 1RB



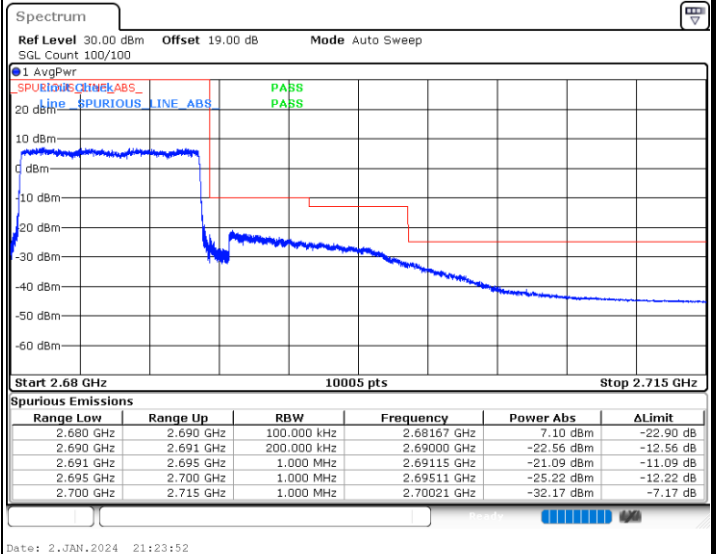
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



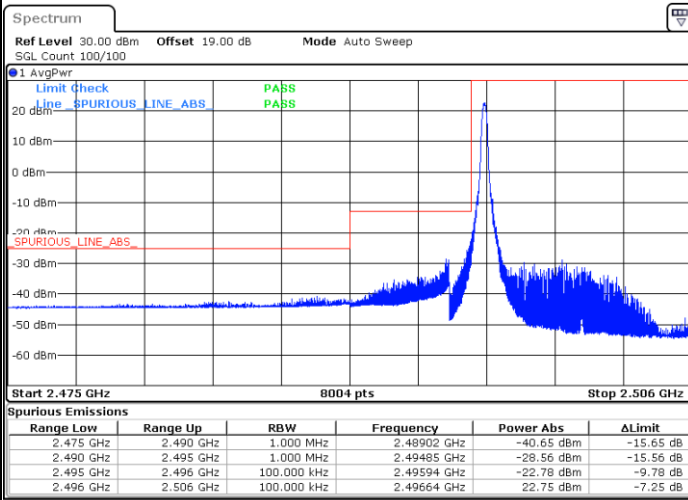
Highest Band Edge / Full RB



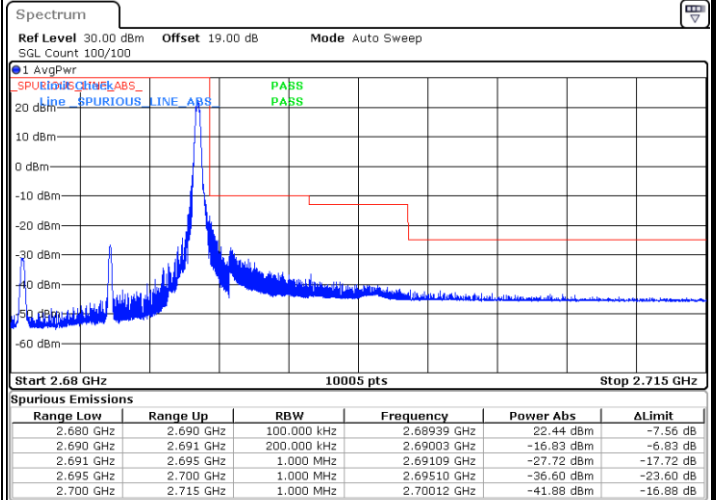


LTE Band 41 / 10MHz / 64QAM

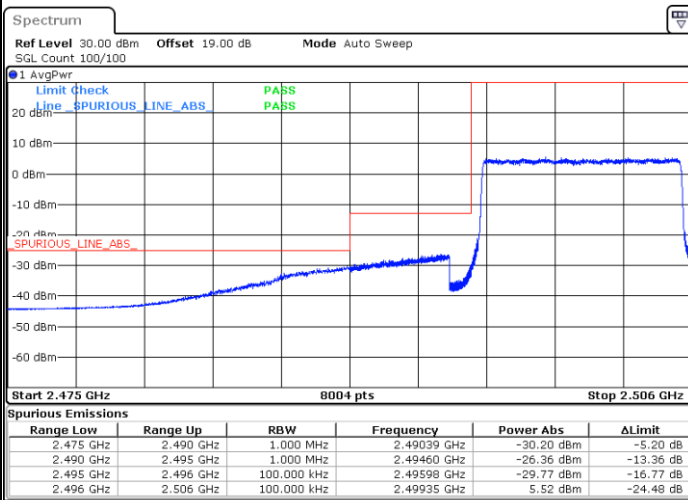
Lowest Band Edge / 1RB



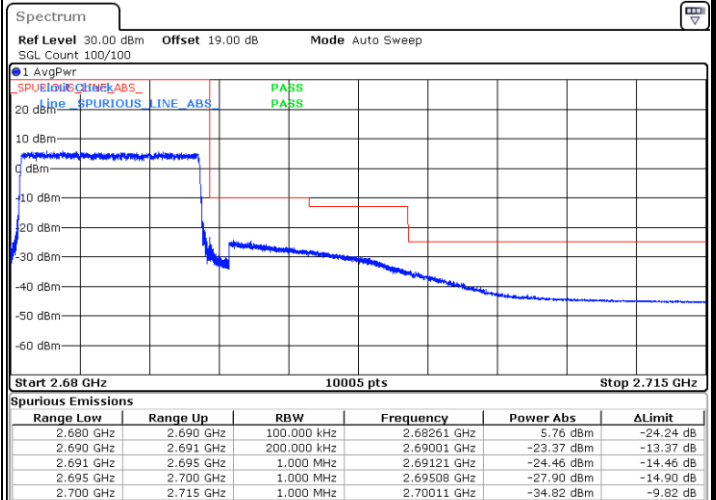
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



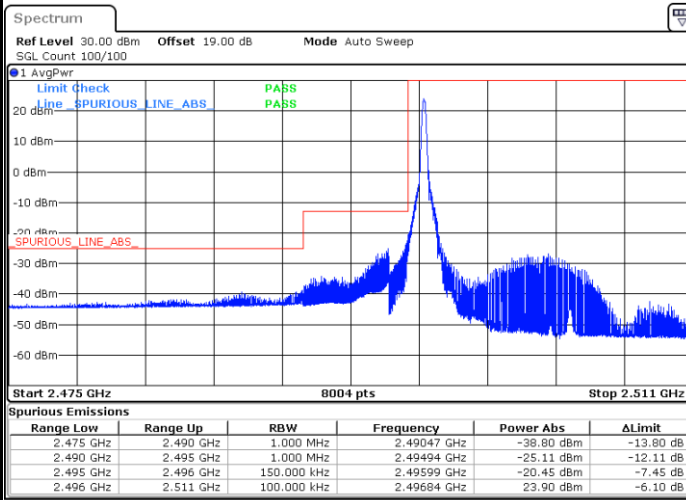
Highest Band Edge / Full RB



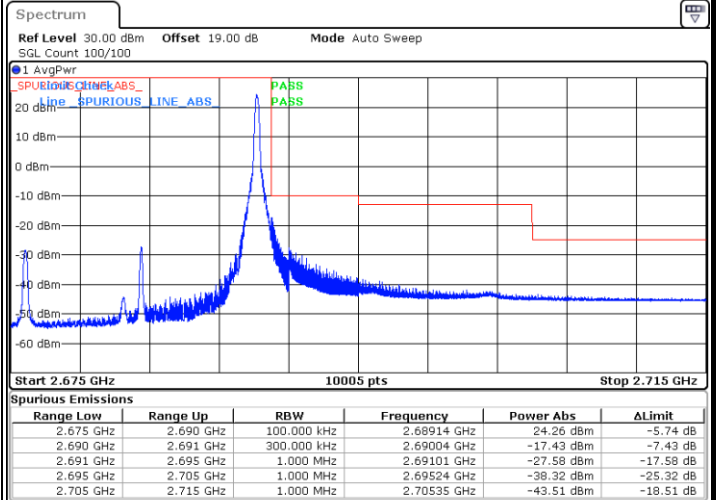


LTE Band 41 / 15MHz / QPSK

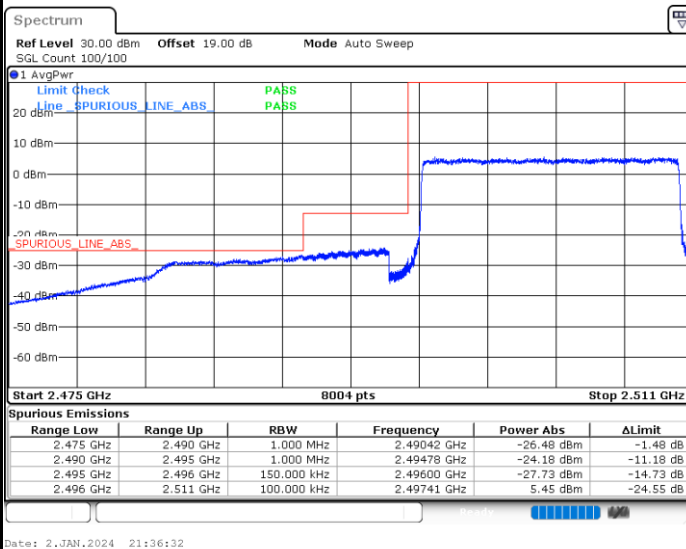
Lowest Band Edge / 1 RB



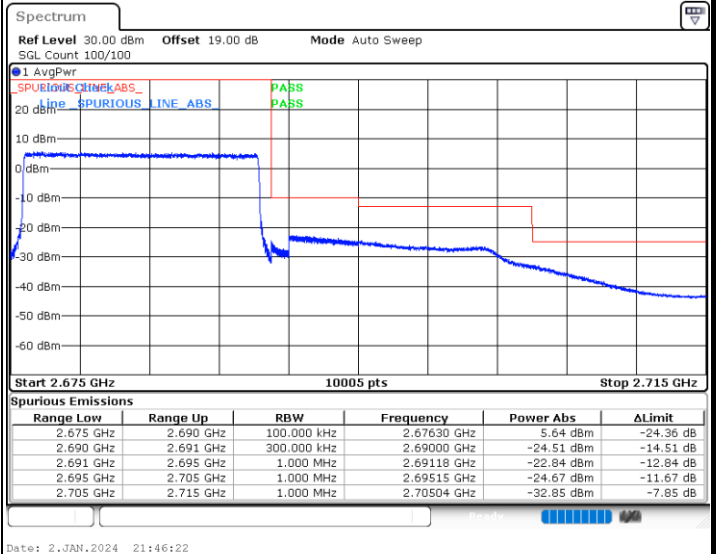
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



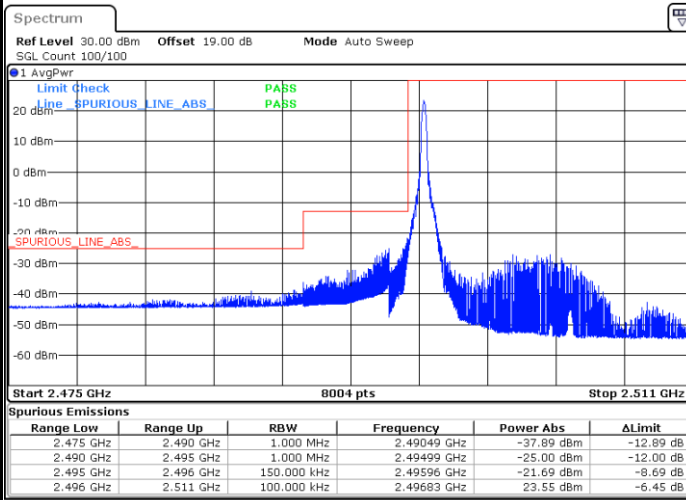
Highest Band Edge / Full RB



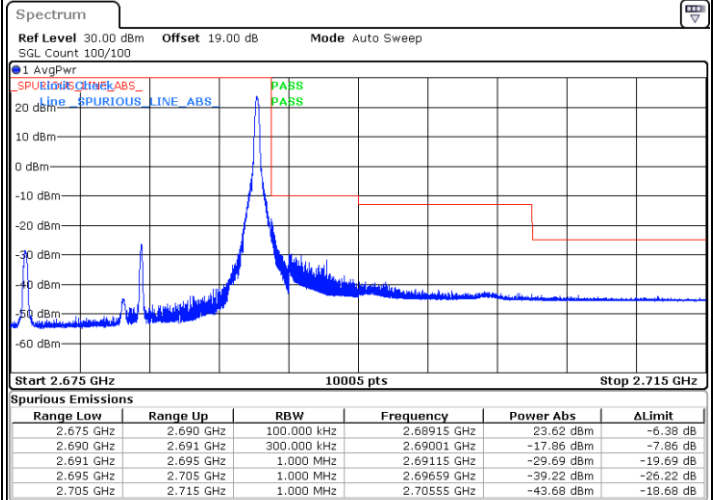


LTE Band 41 / 15MHz / 16QAM

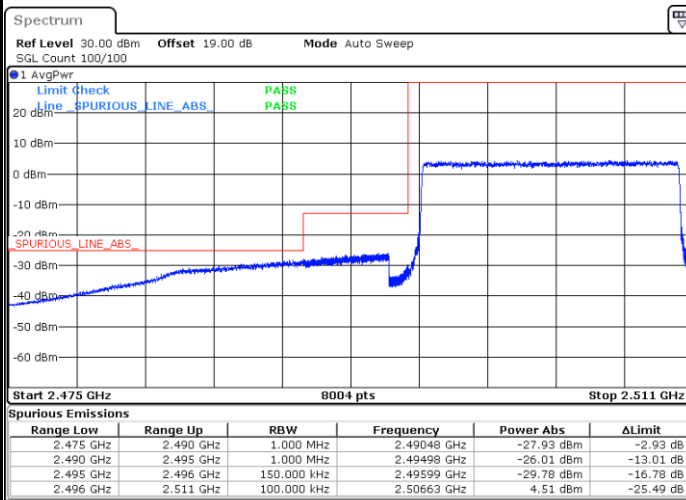
Lowest Band Edge / 1RB



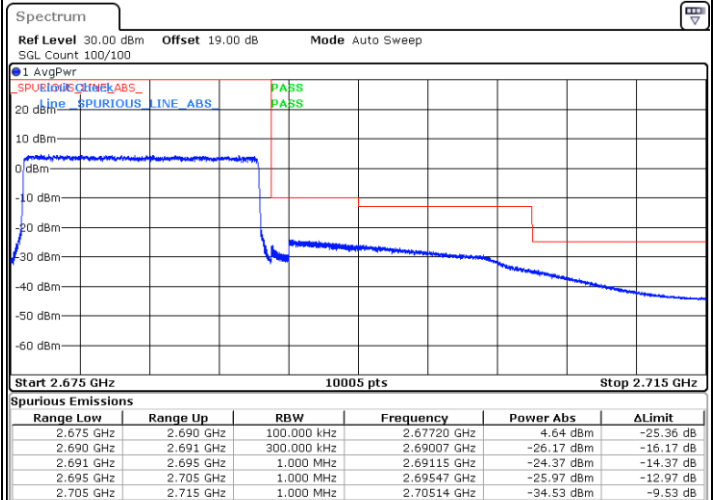
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



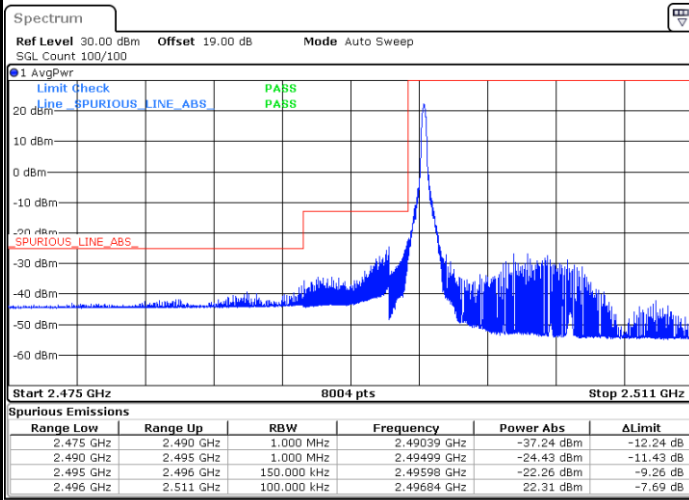
Highest Band Edge / Full RB



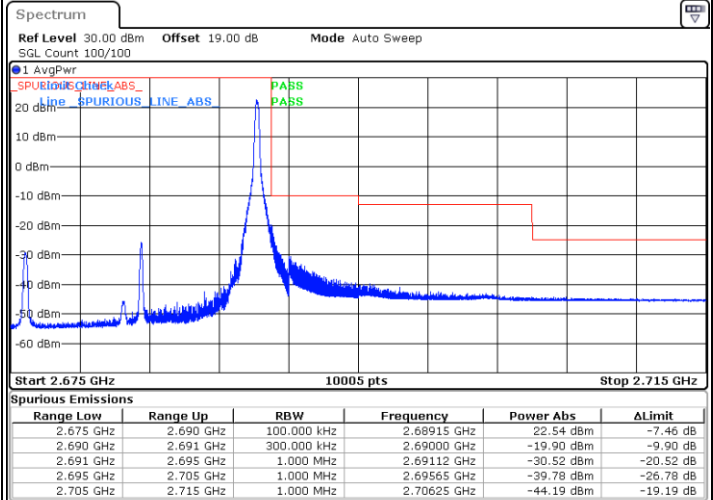


LTE Band 41 / 15MHz / 64QAM

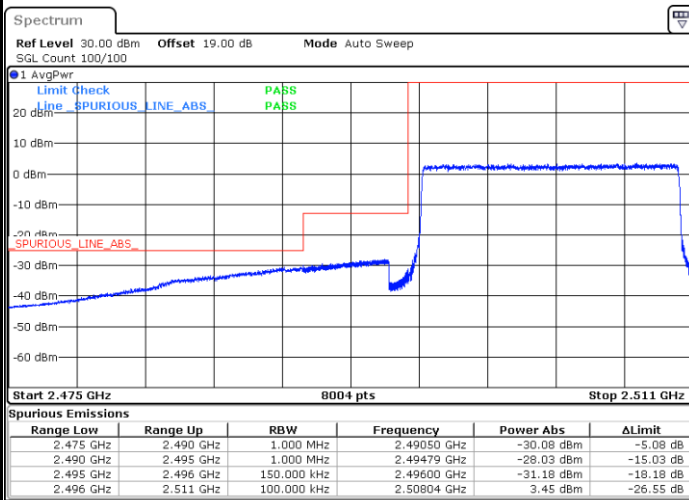
Lowest Band Edge / 1RB



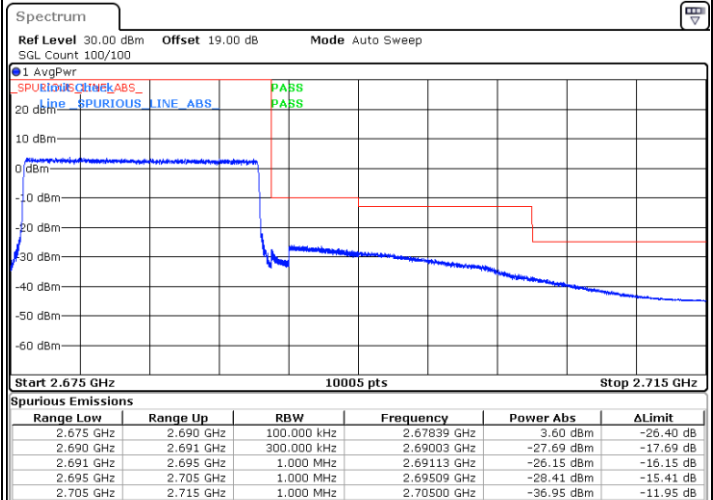
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



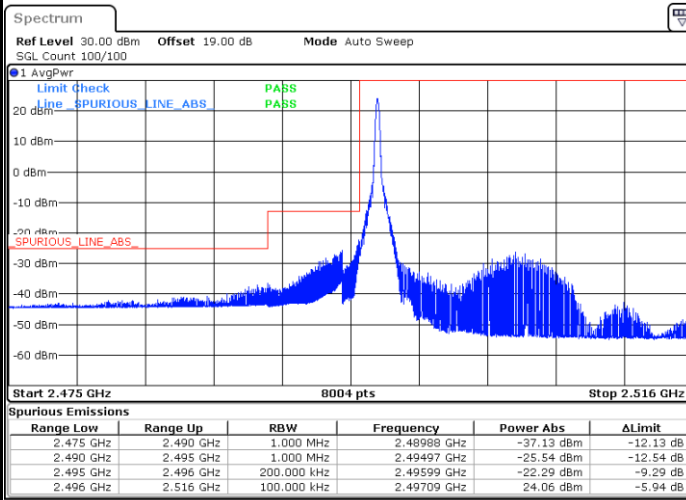
Highest Band Edge / Full RB



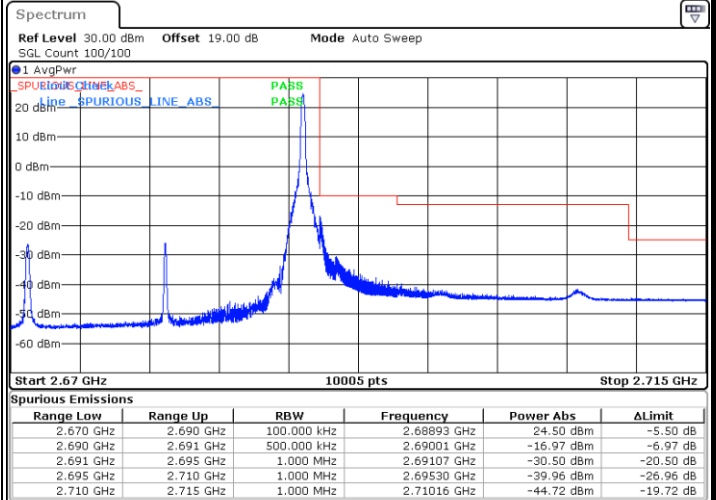


LTE Band 41 / 20MHz / QPSK

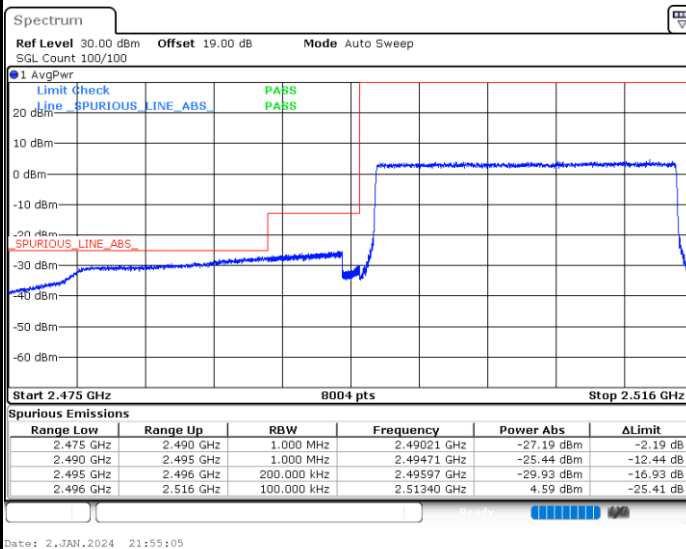
Lowest Band Edge / 1 RB



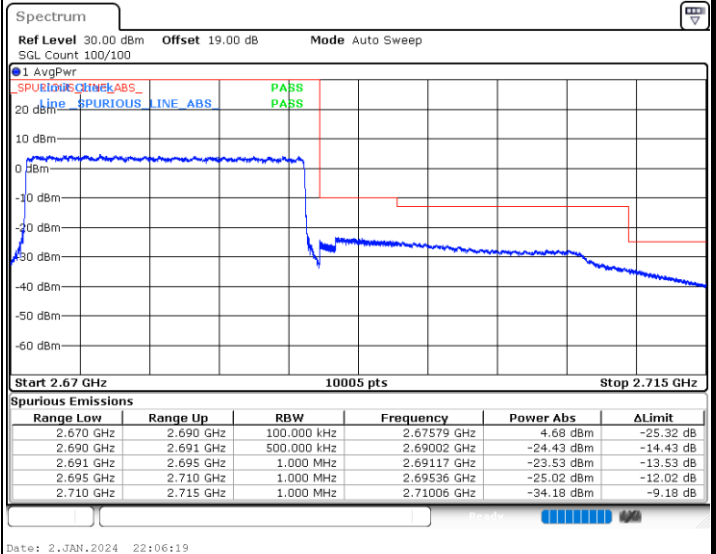
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



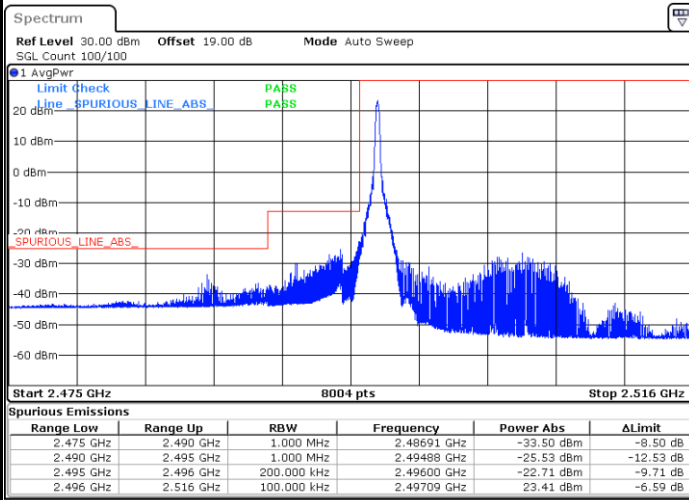
Highest Band Edge / Full RB



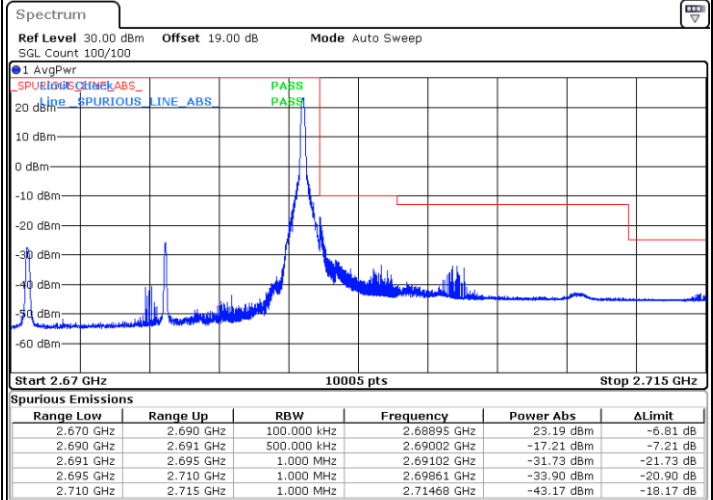


LTE Band 41 / 20MHz / 16QAM

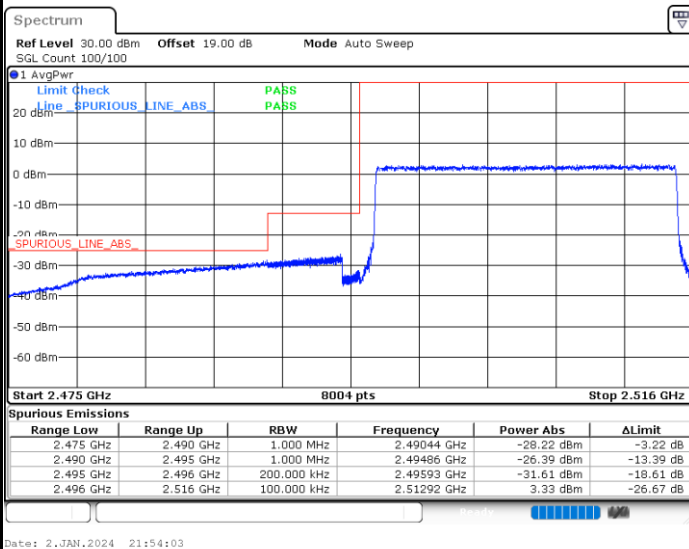
Lowest Band Edge / 1RB



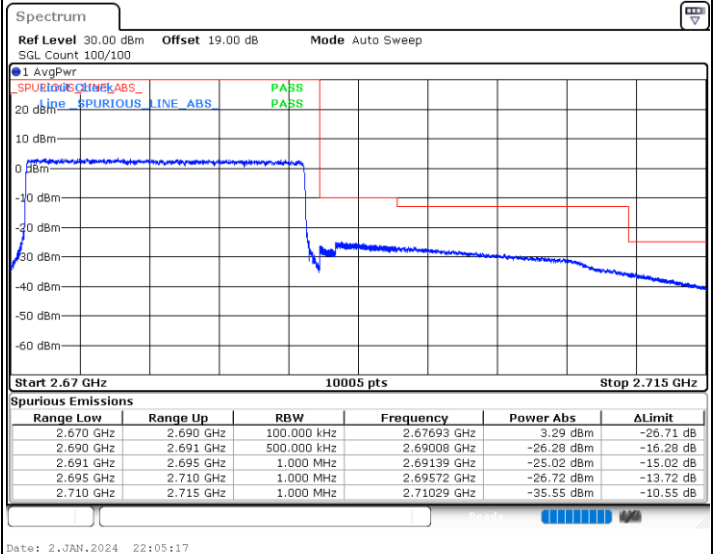
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



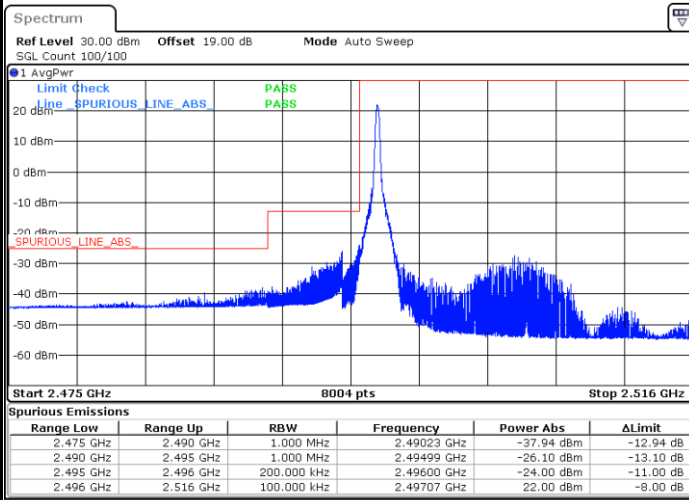
Highest Band Edge / Full RB



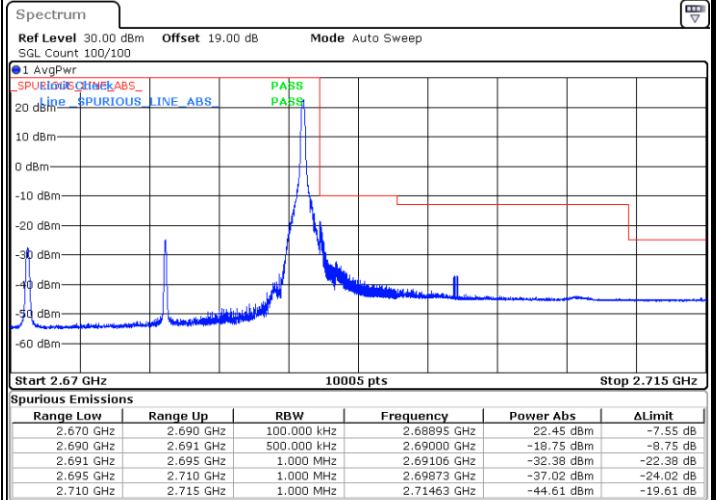


LTE Band 41 / 20MHz / 64QAM

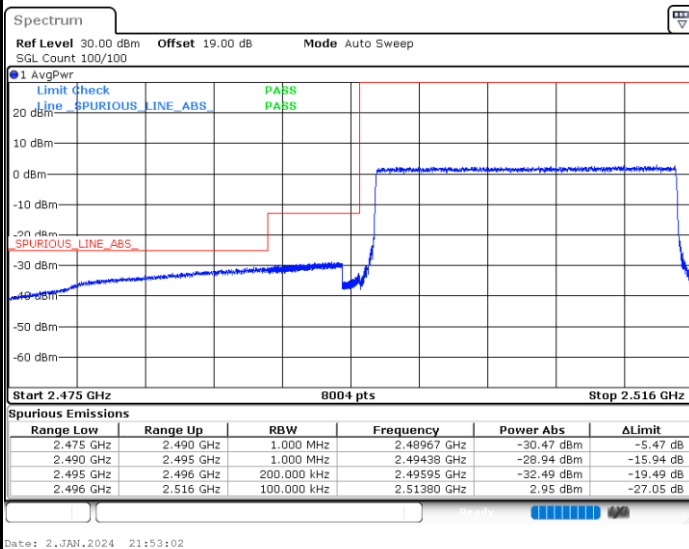
Lowest Band Edge / 1RB



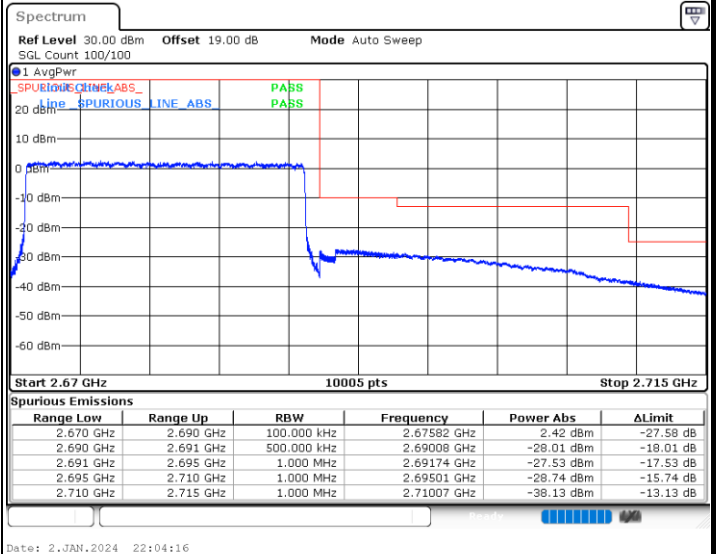
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

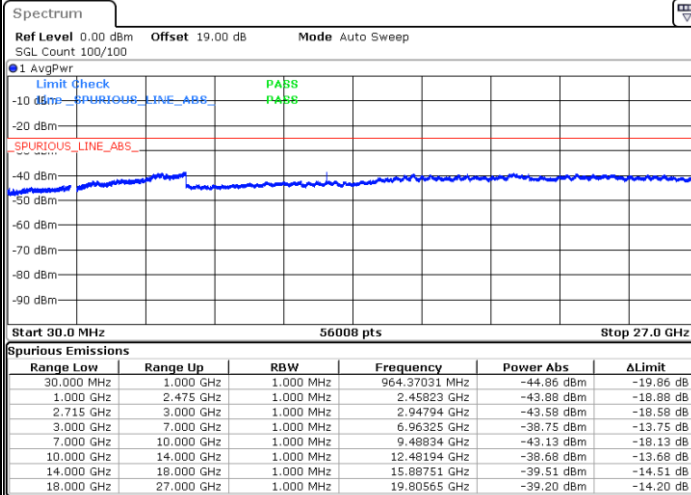




Conducted Spurious Emission

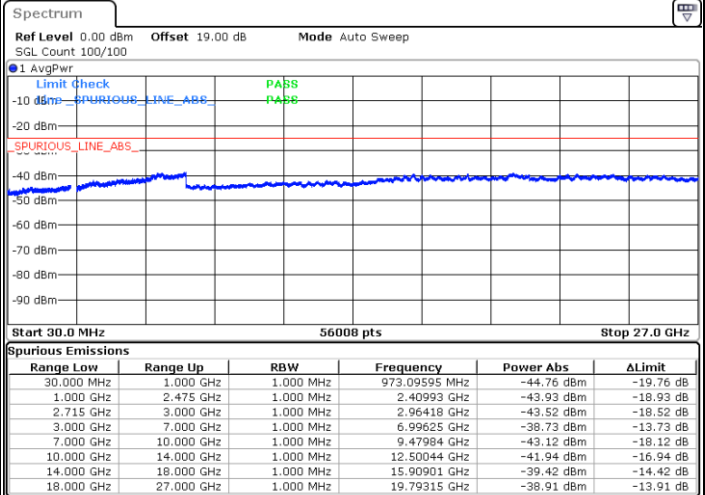
LTE Band 41 / 5MHz

Lowest Channel / QPSK



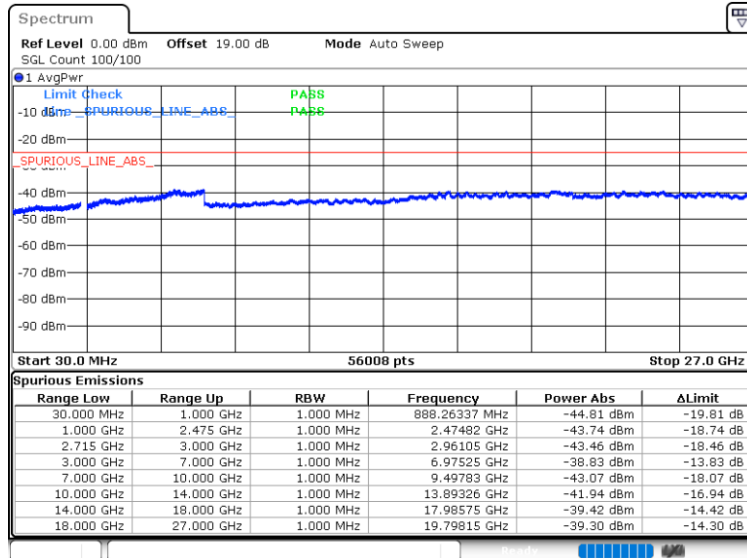
Date: 2.JAN.2024 20:57:19

Middle Channel / QPSK



Date: 2.JAN.2024 20:58:29

Highest Channel / QPSK

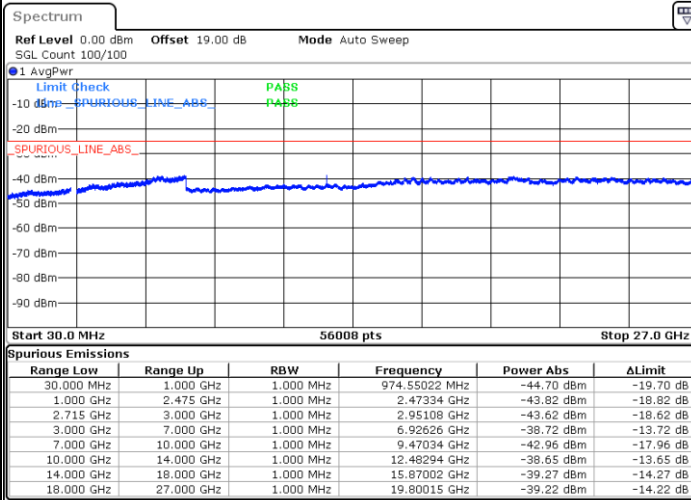


Date: 2.JAN.2024 21:07:27



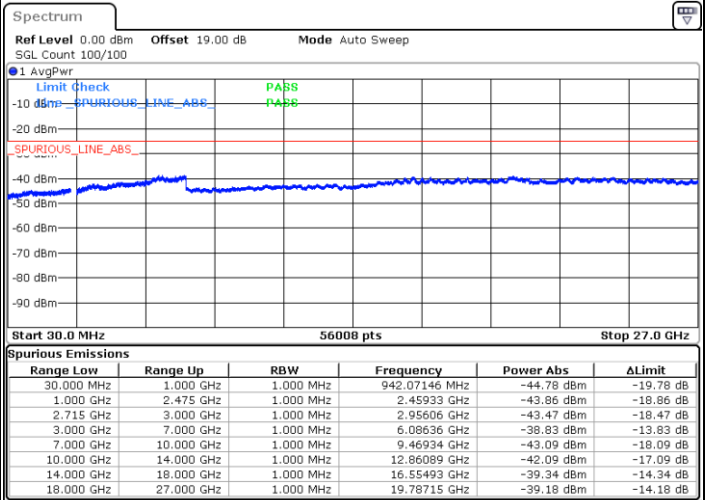
LTE Band 41 / 10MHz

Lowest Channel / QPSK



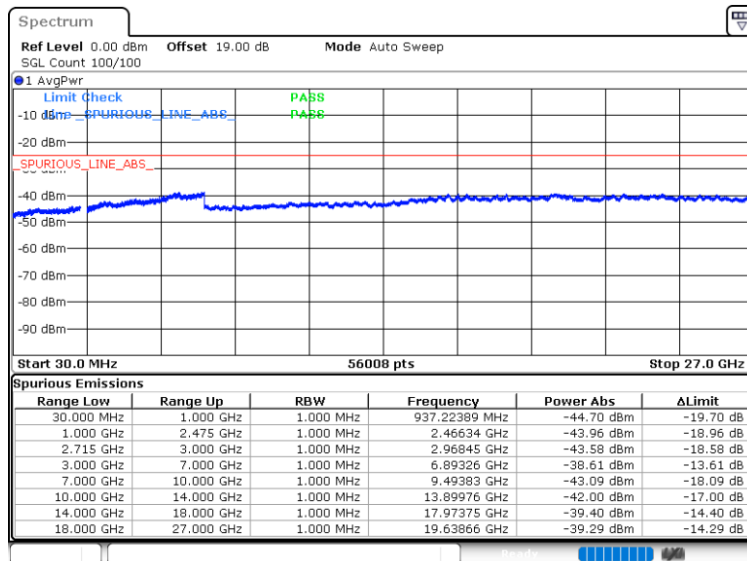
Date: 2.JAN.2024 21:16:12

Middle Channel / QPSK



Date: 2.JAN.2024 21:17:23

Highest Channel / QPSK



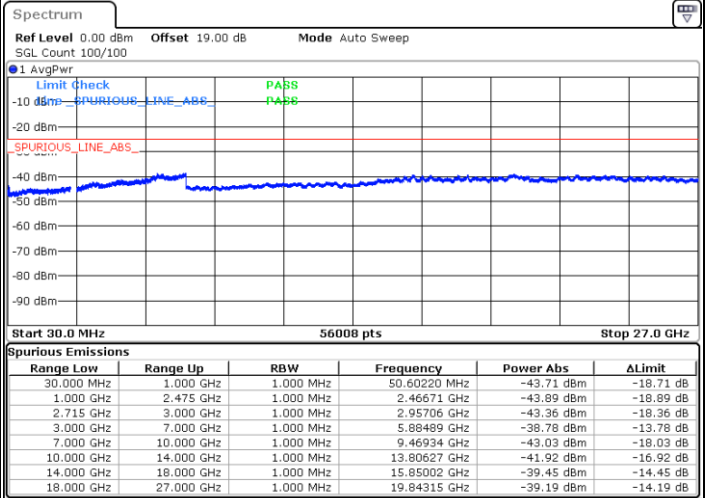
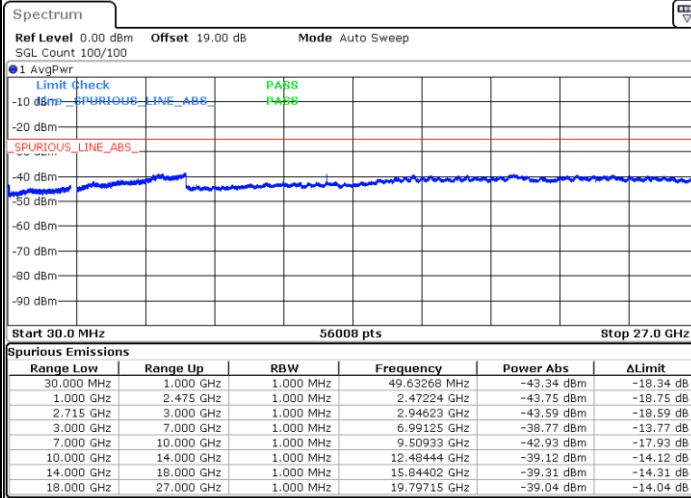
Date: 2.JAN.2024 21:26:04



LTE Band 41 / 15MHz

Lowest Channel / QPSK

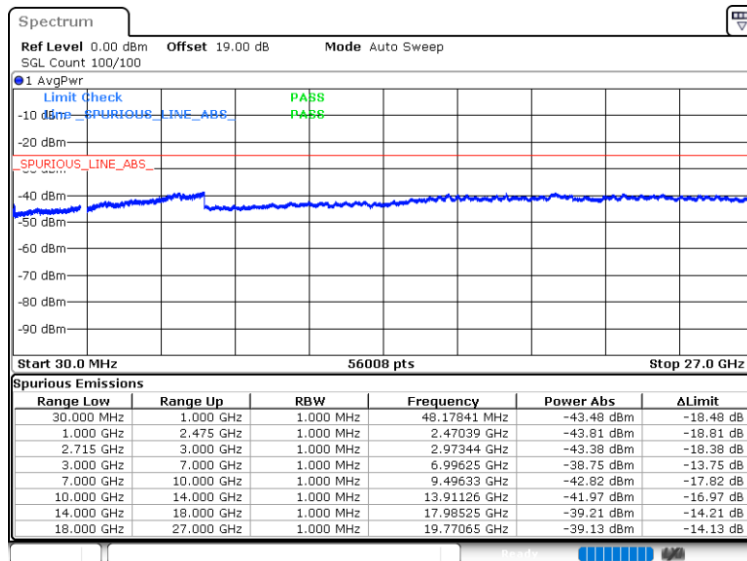
Middle Channel / QPSK



Date: 2.JAN.2024 21:37:43

Date: 2.JAN.2024 21:38:53

Highest Channel / QPSK



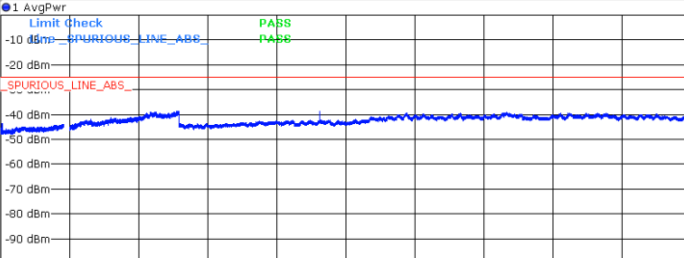
Date: 2.JAN.2024 21:47:33



LTE Band 41 / 20MHz

Lowest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 19.00 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz Stop 27.0 GHz 56008 pts

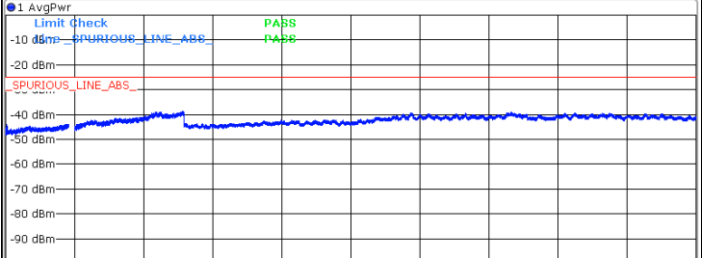
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	93.74563 MHz	-43.56 dBm	-18.56 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47482 GHz	-43.92 dBm	-18.92 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.96019 GHz	-43.57 dBm	-18.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-38.63 dBm	-13.63 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.49933 GHz	-43.15 dBm	-18.15 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.48544 GHz	-38.64 dBm	-13.64 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.99225 GHz	-39.46 dBm	-14.46 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.78865 GHz	-39.26 dBm	-14.26 dB

Date: 2.JAN.2024 21:56:16

Middle Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 19.00 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz Stop 27.0 GHz 56008 pts

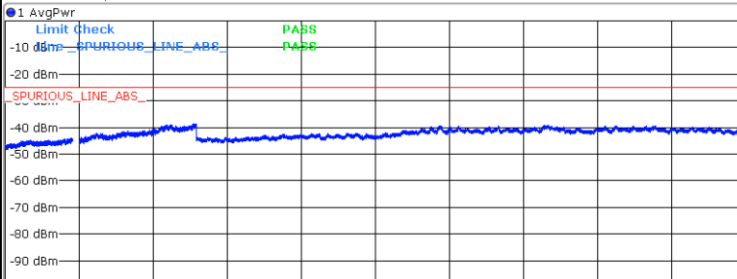
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	48.17841 MHz	-43.89 dBm	-18.89 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.45528 GHz	-43.88 dBm	-18.88 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.97144 GHz	-43.56 dBm	-18.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95126 GHz	-38.84 dBm	-13.84 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.51133 GHz	-43.15 dBm	-18.15 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.90576 GHz	-42.04 dBm	-17.04 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.91301 GHz	-39.43 dBm	-14.43 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.79315 GHz	-39.21 dBm	-14.21 dB

Date: 2.JAN.2024 21:57:26

Highest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 19.00 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz Stop 27.0 GHz 56008 pts

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	965.82459 MHz	-44.75 dBm	-19.75 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46302 GHz	-43.87 dBm	-18.87 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.95222 GHz	-43.39 dBm	-18.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94526 GHz	-38.59 dBm	-13.59 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.46084 GHz	-43.00 dBm	-18.00 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.87377 GHz	-41.75 dBm	-16.75 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.86202 GHz	-39.37 dBm	-14.37 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.79815 GHz	-39.09 dBm	-14.09 dB

Date: 2.JAN.2024 22:07:30

**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	0.0013	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

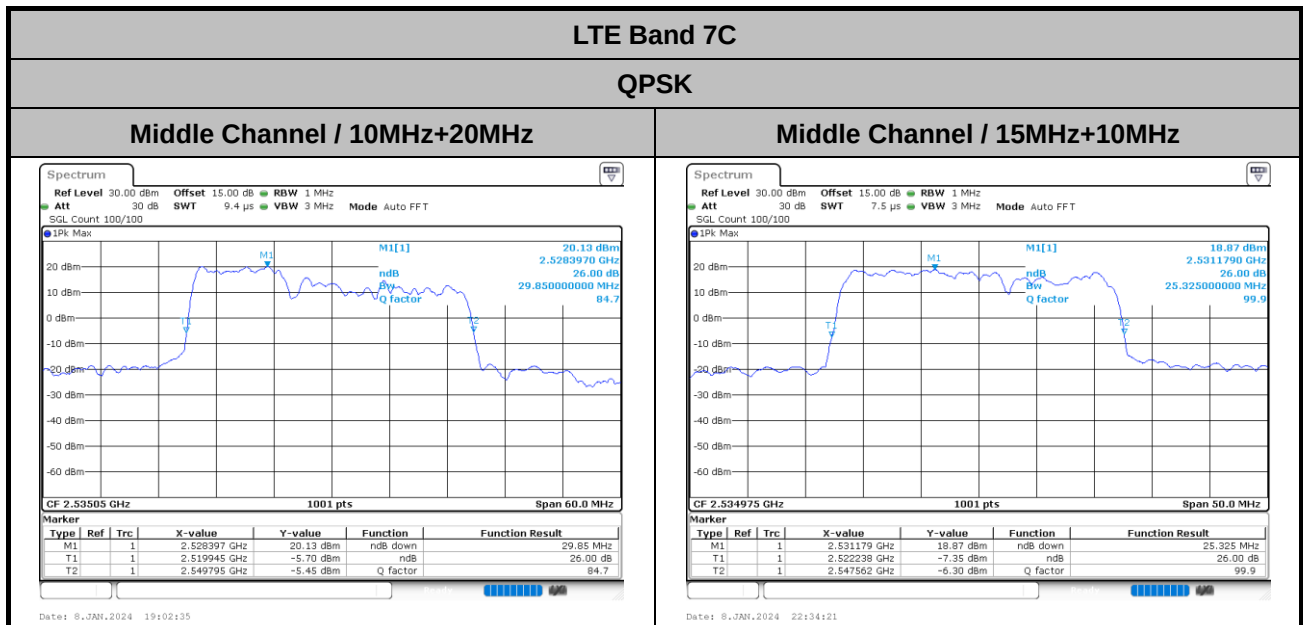


LTE Band CA_7C

26dB Bandwidth

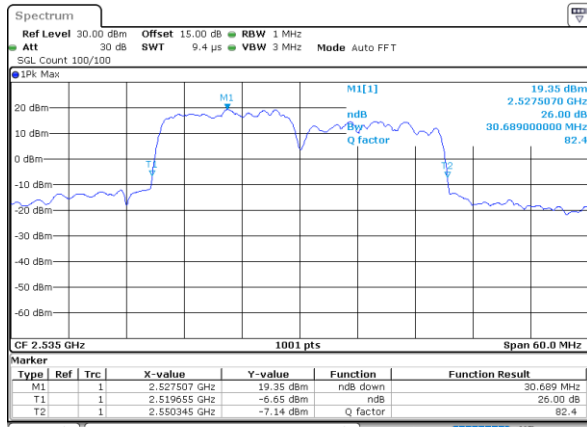
Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.85	25.33	30.69	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	35.39	39.96	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.43	30.57	34.76
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.21	35.04	39.64	



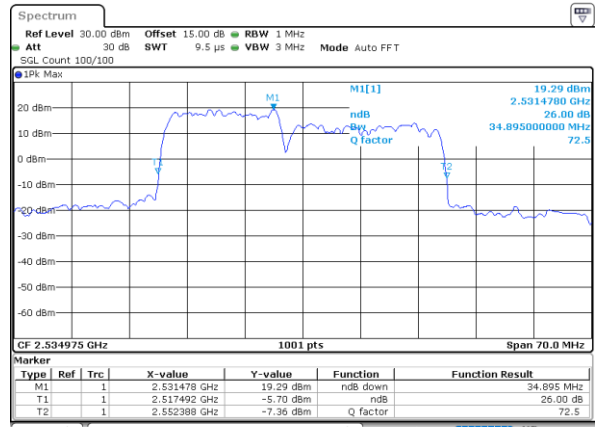


Middle Channel / 15MHz+15MHz



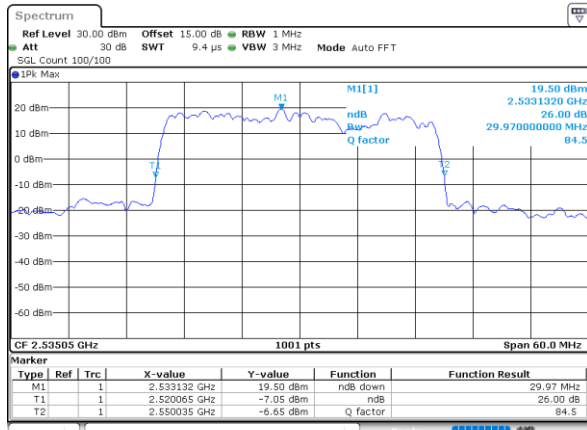
Date: 8, JAN, 2024 21:02:31

Middle Channel / 15MHz+20MHz



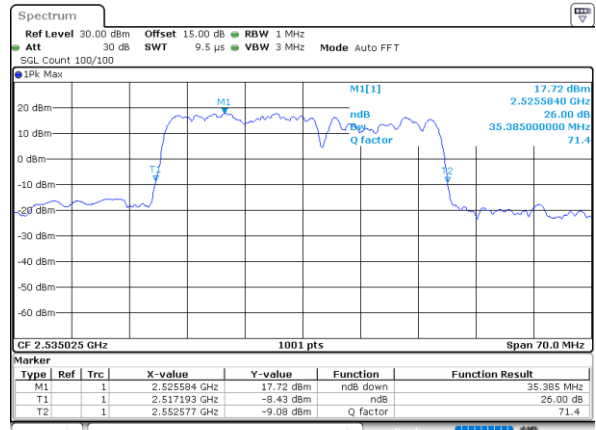
Date: 8, JAN, 2024 21:24:29

Middle Channel / 20MHz+10MHz



Date: 8, JAN, 2024 20:39:19

Middle Channel / 20MHz+15MHz

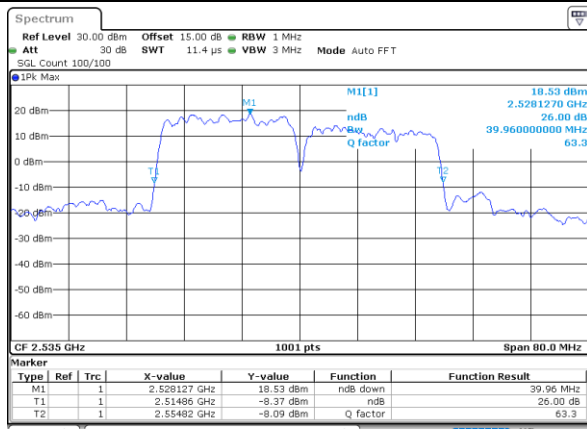


Date: 8, JAN, 2024 21:48:43

LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz



Date: 8, JAN, 2024 22:11:53

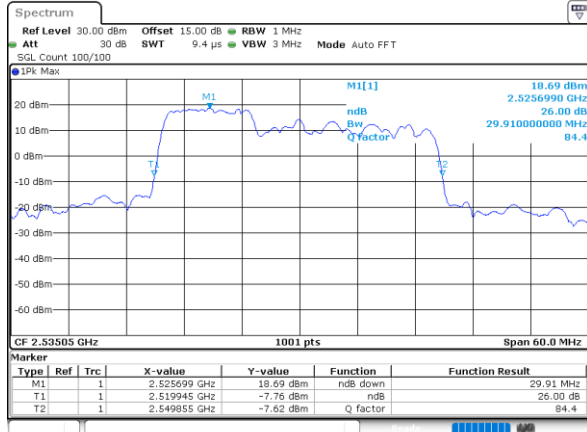
N/A



LTE Band 7C

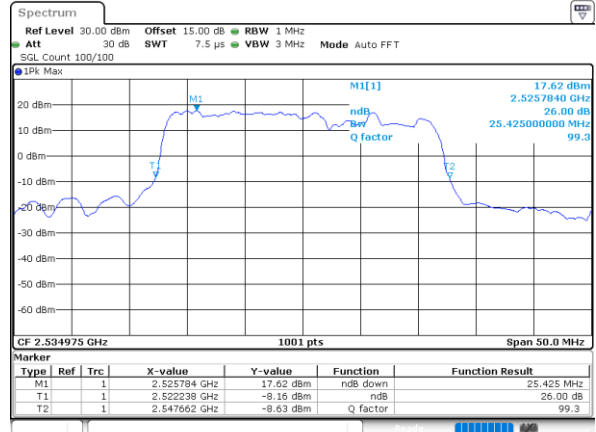
16QAM

Middle Channel / 10MHz+20MHz



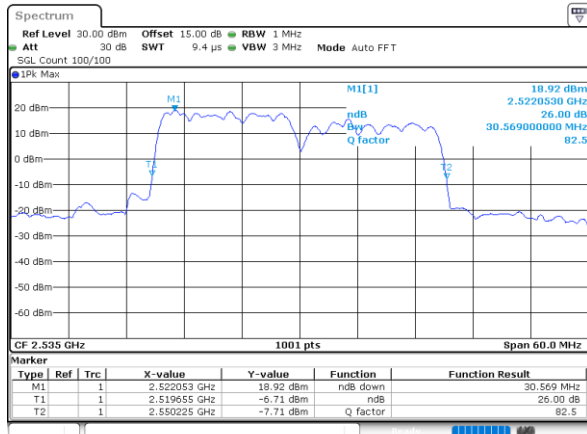
Date: 8.JAN.2024 19:03:06

Middle Channel / 15MHz+10MHz



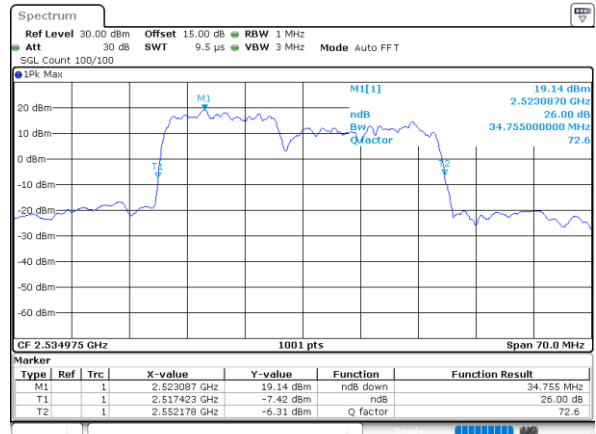
Date: 8.JAN.2024 22:34:53

Middle Channel / 15MHz+15MHz



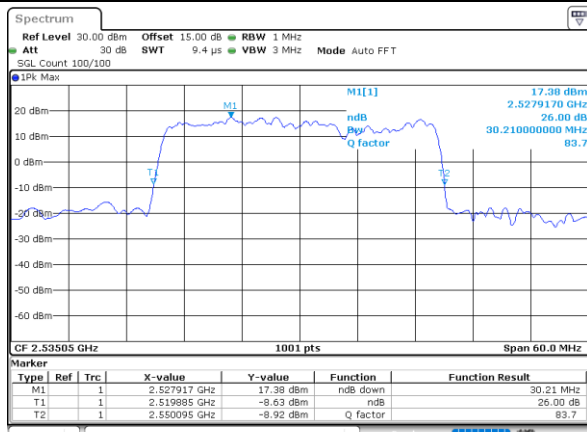
Date: 8.JAN.2024 21:02:59

Middle Channel / 15MHz+20MHz



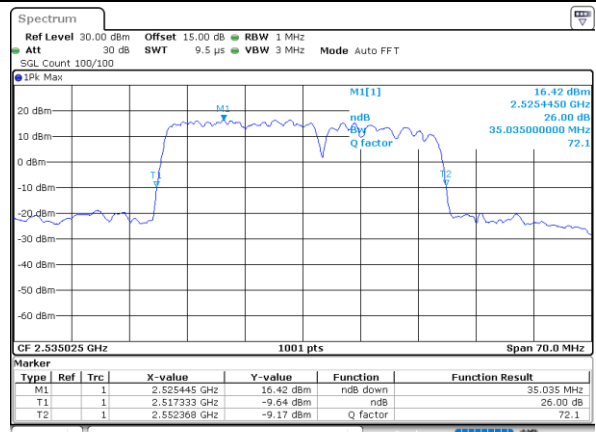
Date: 8.JAN.2024 21:25:00

Middle Channel / 20MHz+10MHz



Date: 8.JAN.2024 20:39:51

Middle Channel / 20MHz+15MHz



Date: 8.JAN.2024 21:49:14

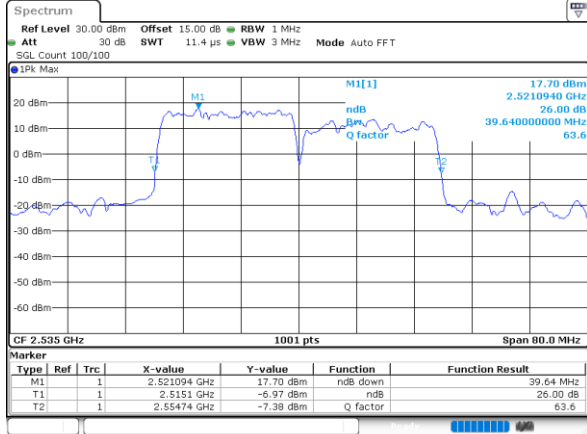


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



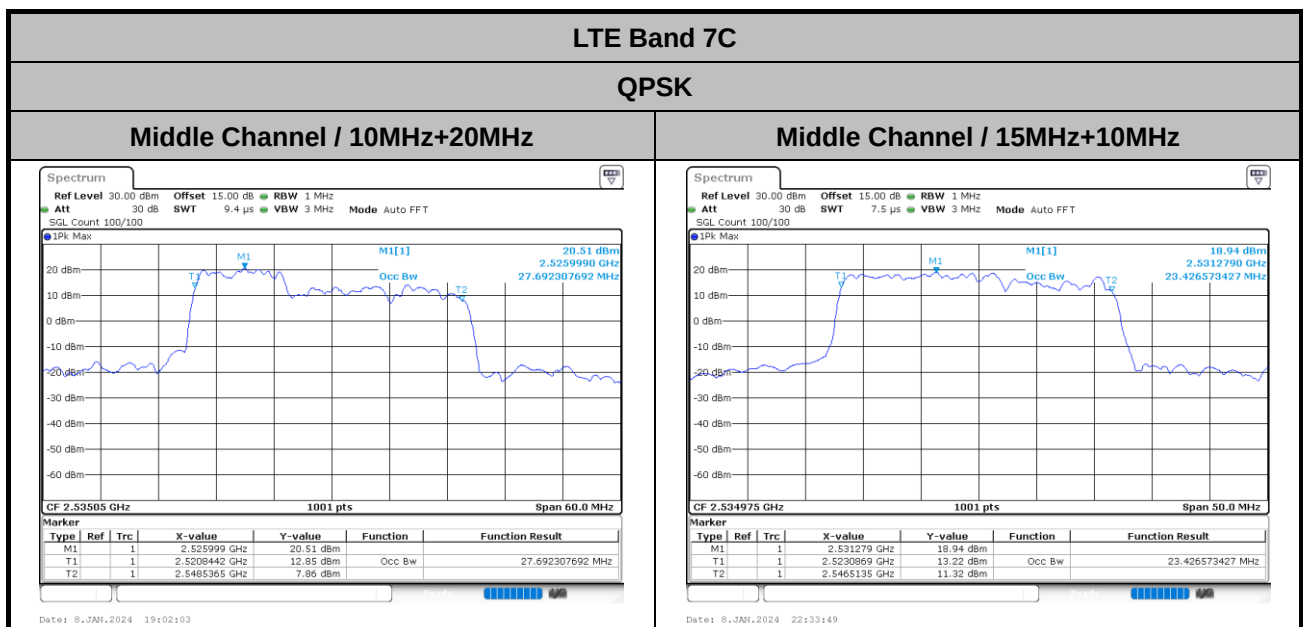
Date: 8-JAN-2024 22:12:22



Occupied Bandwidth

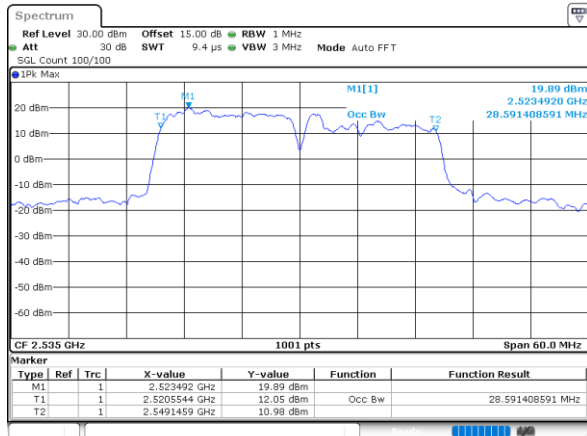
Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.69	23.43	28.59	32.59
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.17	32.66	37.72	

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.69	23.43	28.35	32.87
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.73	37.32	



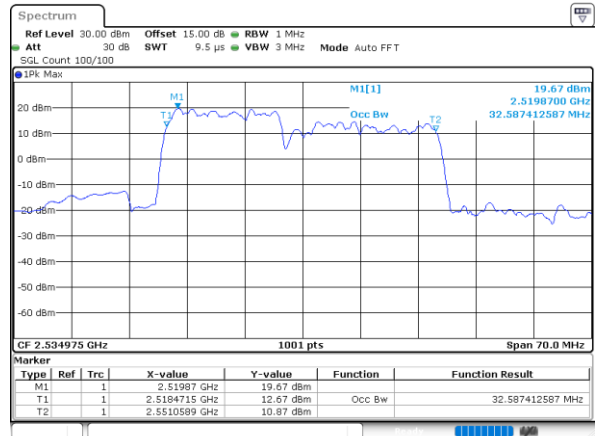


Middle Channel / 15MHz+15MHz



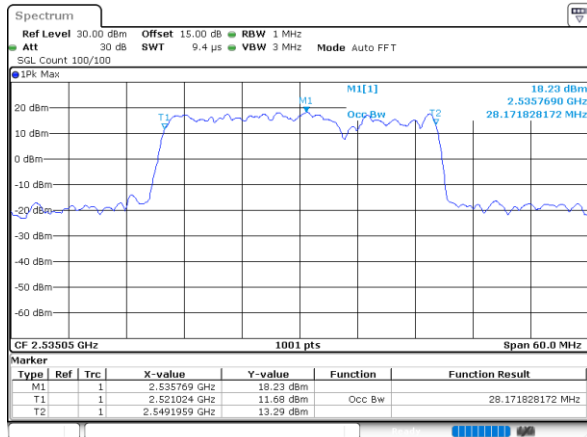
Date: 8, JAN, 2024 21:02:02

Middle Channel / 15MHz+20MHz



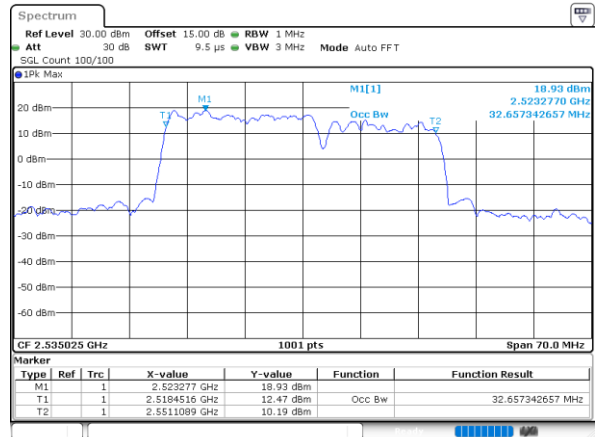
Date: 8, JAN, 2024 21:23:57

Middle Channel / 20MHz+10MHz



Date: 8, JAN, 2024 20:38:48

Middle Channel / 20MHz+15MHz

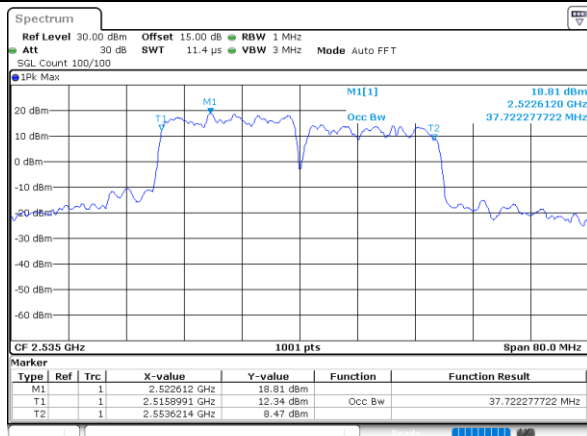


Date: 8, JAN, 2024 21:48:11

LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz



Date: 8, JAN, 2024 22:11:25

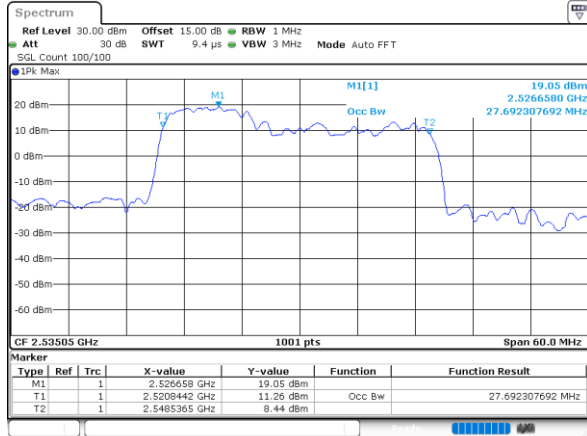
N/A



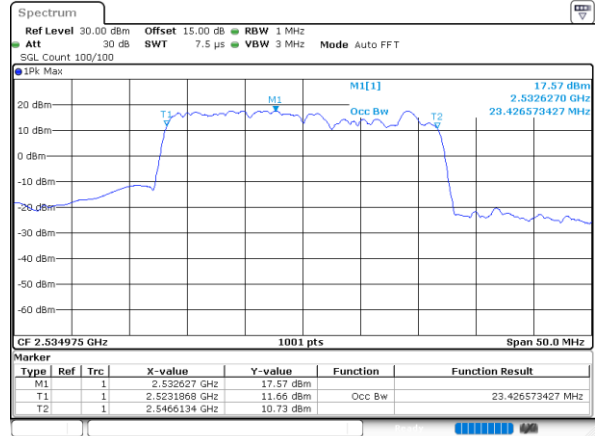
LTE Band 7C

16QAM

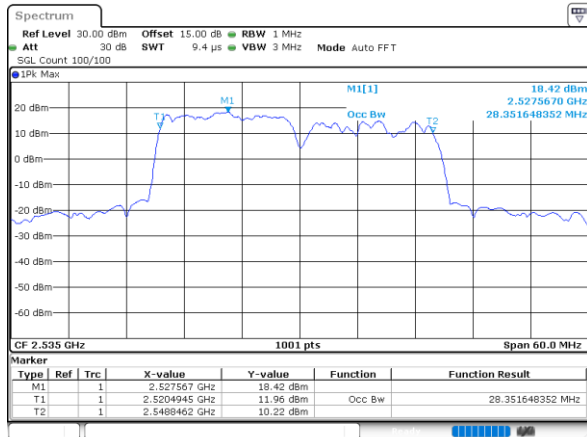
Middle Channel / 10MHz+20MHz



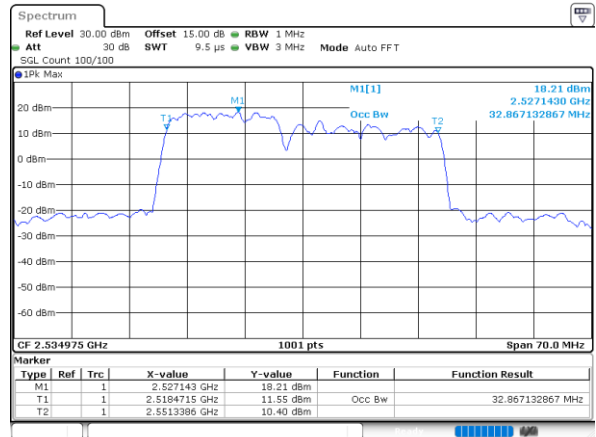
Middle Channel / 15MHz+10MHz



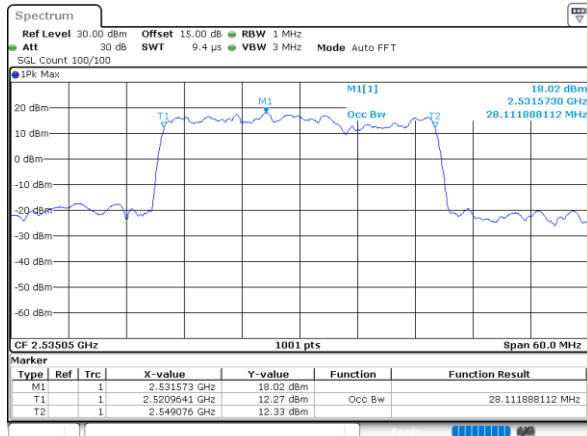
Middle Channel / 15MHz+15MHz



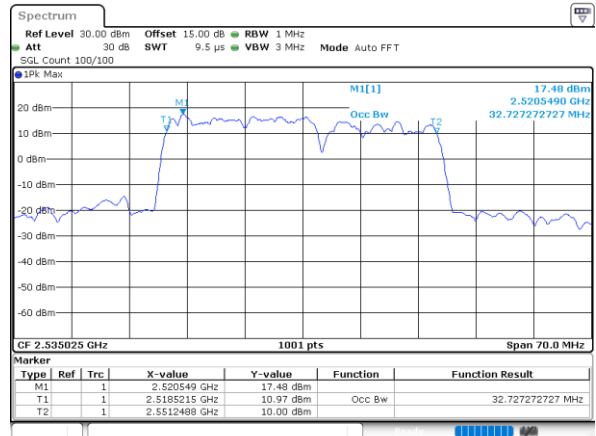
Middle Channel / 15MHz+20MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



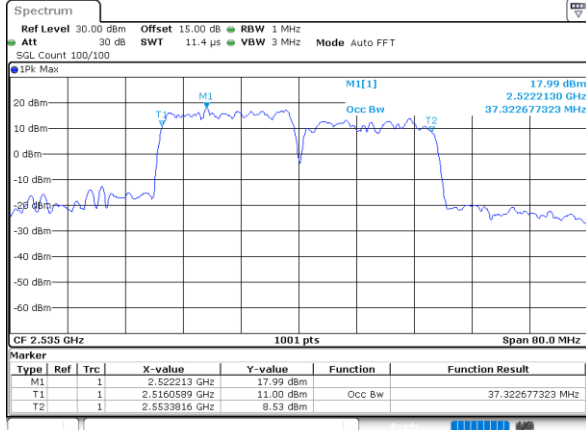


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 8-JAN-2024 22:12:50

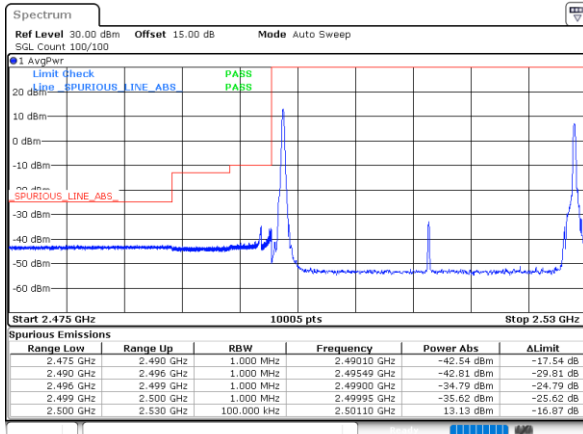


Conducted Band Edge

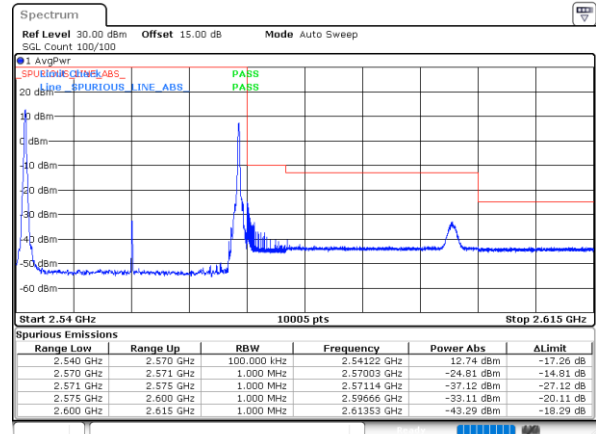
LTE Band 7C / 10MHz+20MHz

QPSK

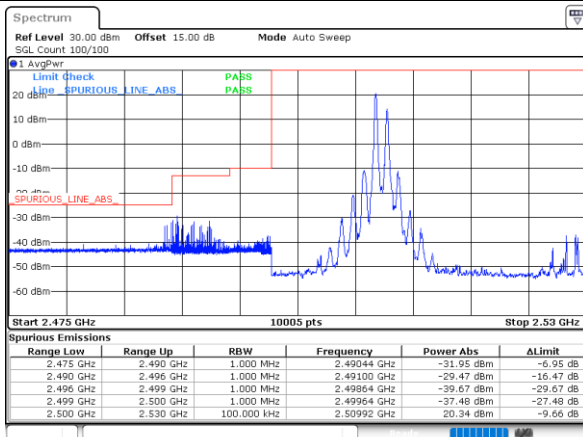
Lowest Band Edge / 1RB0 and 1RB99



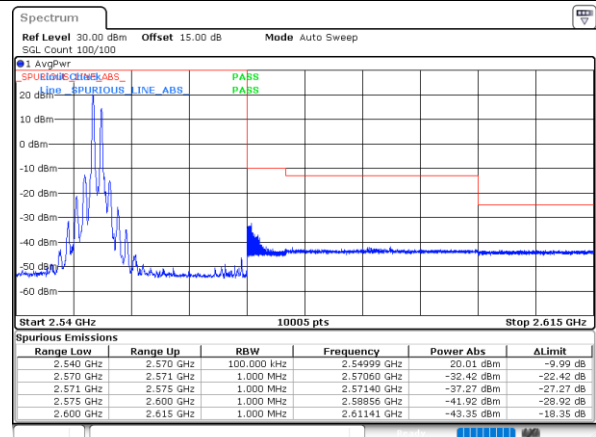
Highest Band Edge / 1RB0 and 1RB99



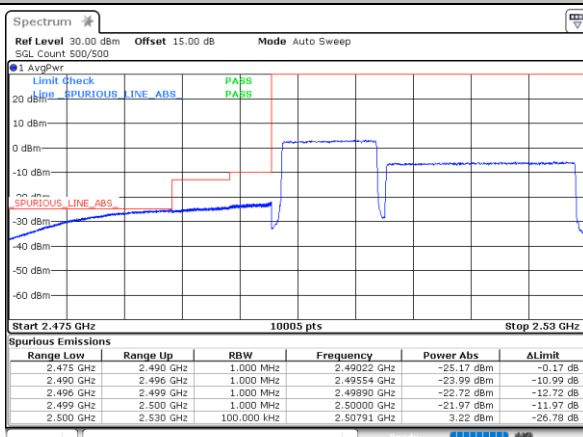
Lowest Band Edge / 1RB49 and 1RB0



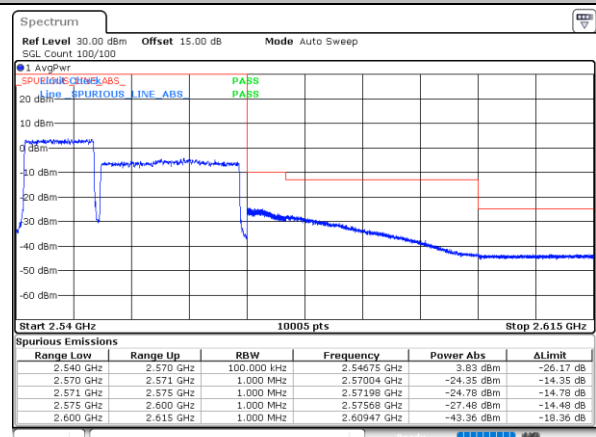
Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

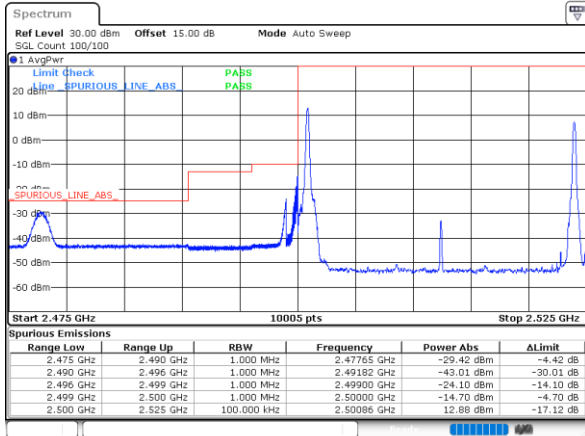




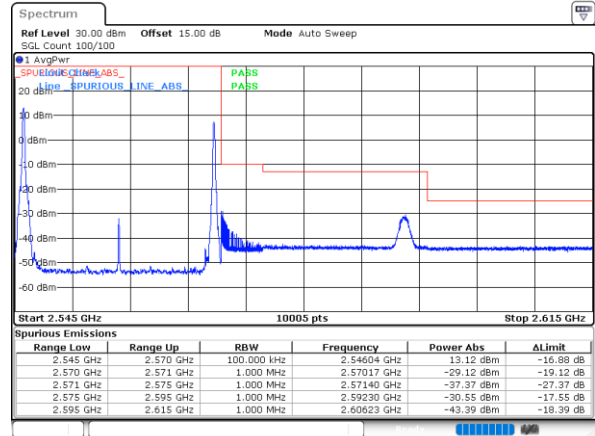
LTE Band 7C / 15MHz+10MHz

QPSK

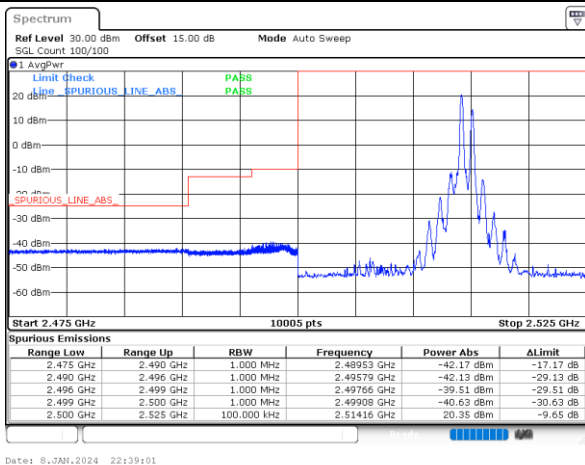
Lowest Band Edge / 1RB0 and 1RB49



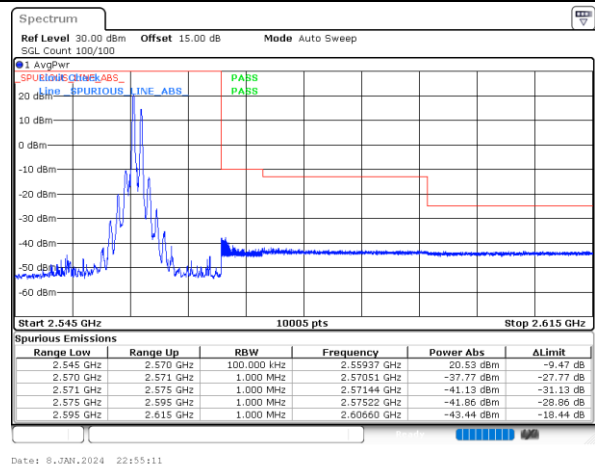
Highest Band Edge / 1RB0 and 1RB49



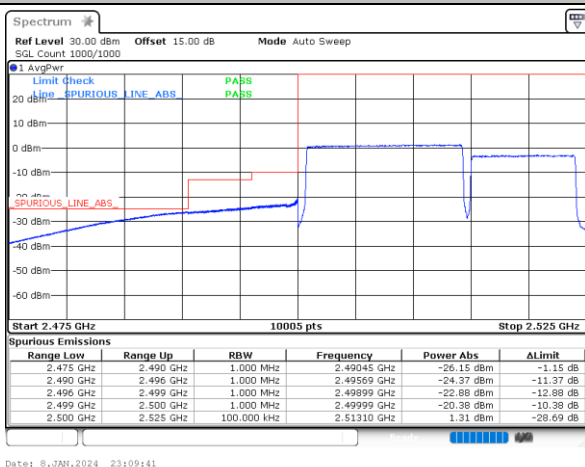
Lowest Band Edge / 1RB74 and 1RB0



Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

