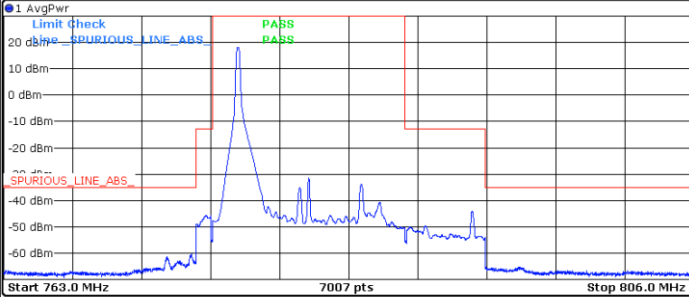




LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

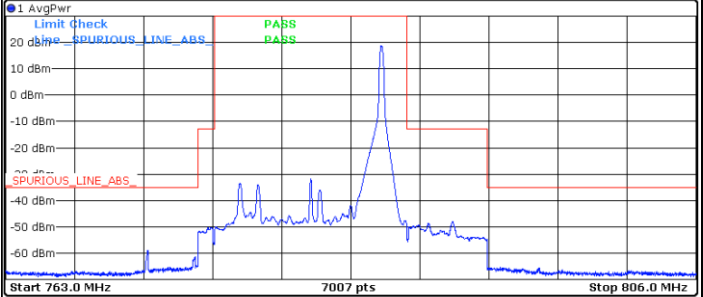
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.69431 MHz	-60.35 dBm	-25.35 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.60015 MHz	-45.78 dBm	-32.78 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93232 MHz	-54.92 dBm	-41.92 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.57642 MHz	-18.12 dBm	-11.88 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05480 MHz	-55.31 dBm	-42.31 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.17517 MHz	-44.09 dBm	-31.09 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.14935 MHz	-65.27 dBm	-30.27 dB

Date: 26 SEP 2024 10:22:18

LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

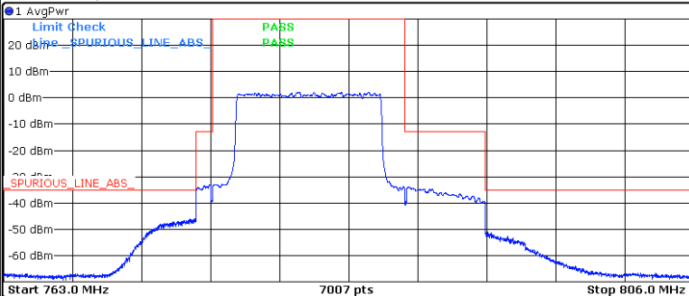
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.82917 MHz	-58.98 dBm	-23.98 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.78536 MHz	-50.38 dBm	-37.38 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-55.96 dBm	-42.96 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	-18.73 dBm	-11.27 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-54.27 dBm	-41.27 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.83392 MHz	-48.08 dBm	-35.08 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.79870 MHz	-65.30 dBm	-30.30 dB

Date: 26 SEP 2024 10:24:33

LTE Band 13 / 10MHz / 64QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.95804 MHz	-45.98 dBm	-10.98 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.82942 MHz	-33.03 dBm	-20.03 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90544 MHz	-38.49 dBm	-25.49 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.38861 MHz	2.22 dBm	-27.78 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09995 MHz	-39.31 dBm	-26.31 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.19545 MHz	-33.94 dBm	-20.94 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.14935 MHz	-51.22 dBm	-16.22 dB

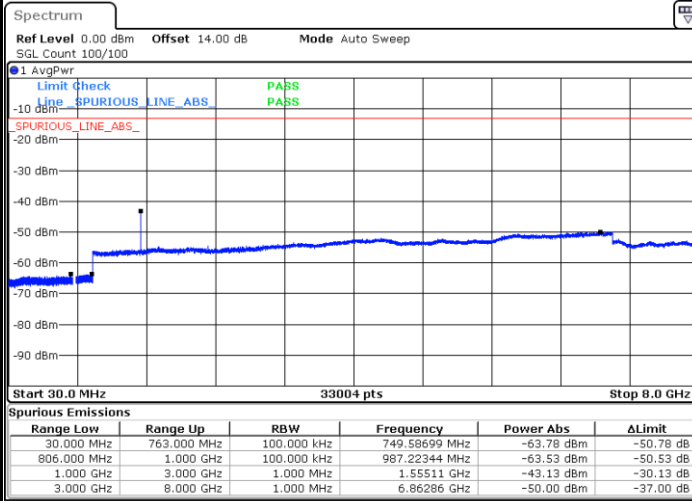
Date: 26 SEP 2024 10:26:49



Conducted Spurious Emission

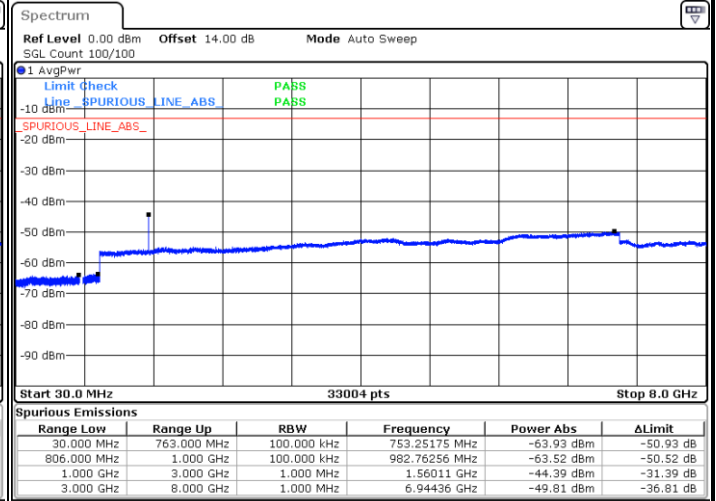
LTE Band 13 / 5MHz

Lowest Channel / QPSK



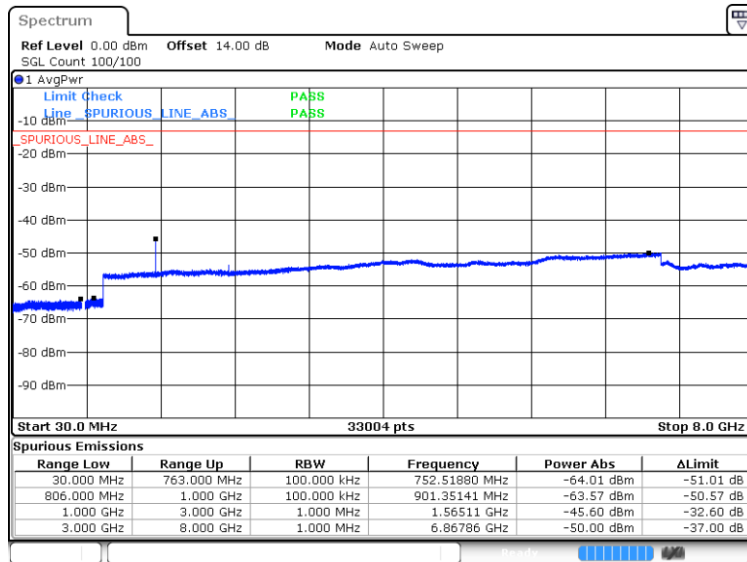
Date: 26 SEP 2024 10:10:12

Middle Channel / QPSK



Date: 26 SEP 2024 10:11:12

Highest Channel / QPSK

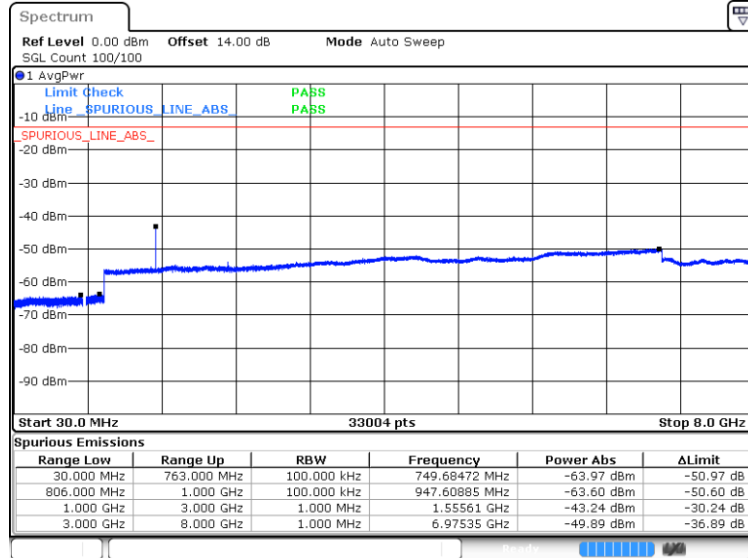


Date: 26 SEP 2024 10:18:04



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 26.SEP.2024 10:27:48

**Frequency Stability**

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

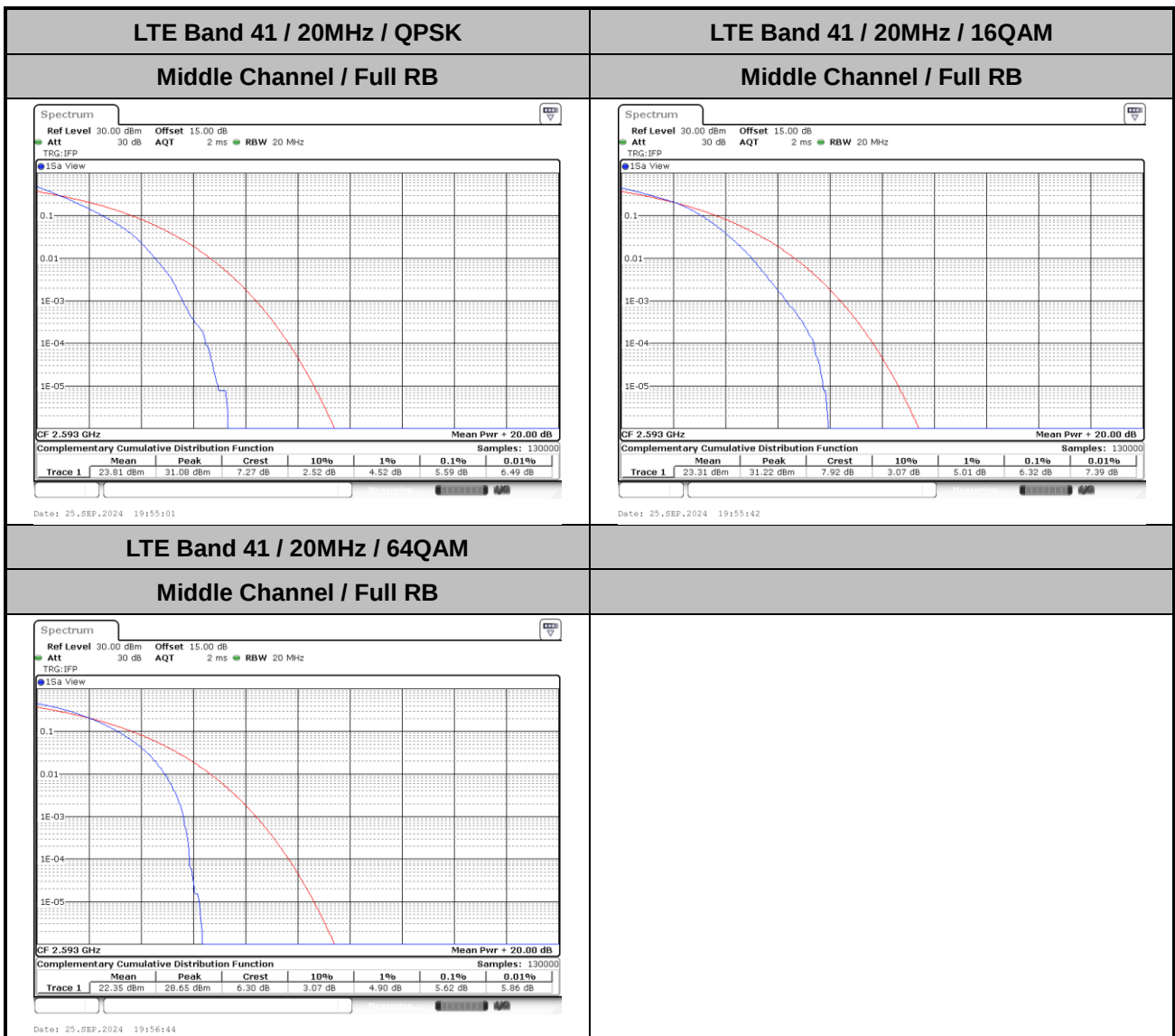
Note:

1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.53 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.59	6.32	5.62	PASS



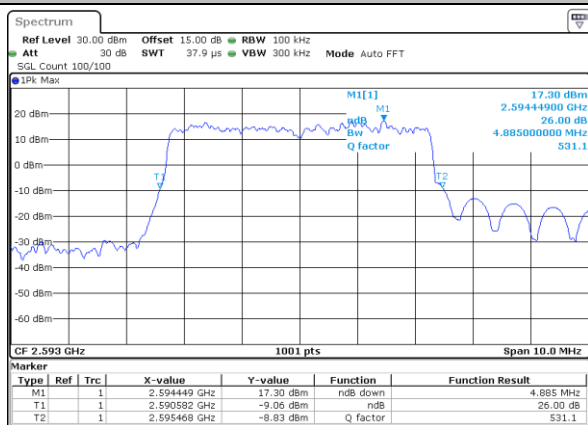


26dB Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.89	4.81	9.79	9.63	14.45	14.54	21.90	18.66

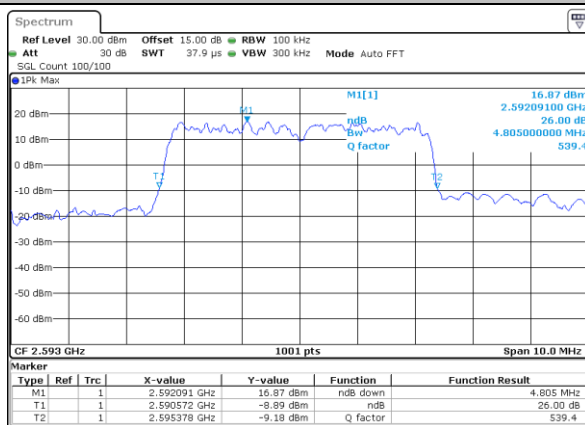
LTE Band 41

Middle Channel / 5MHz / QPSK



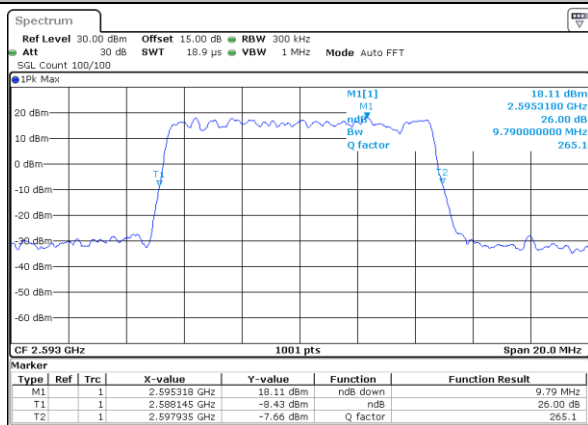
Date: 24 SEP 2024 07:10:28

Middle Channel / 5MHz / 16QAM



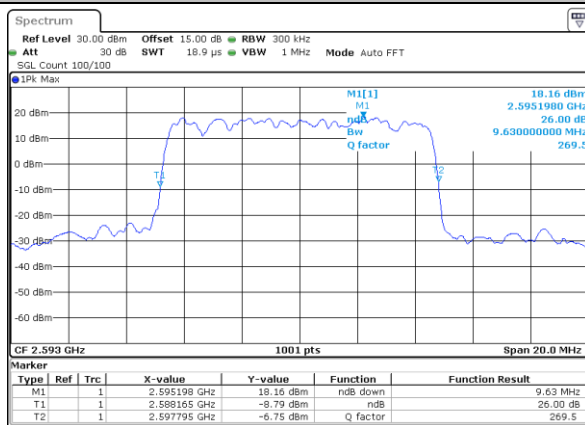
Date: 24 SEP 2024 07:11:08

Middle Channel / 10MHz / QPSK



Date: 24 SEP 2024 07:29:37

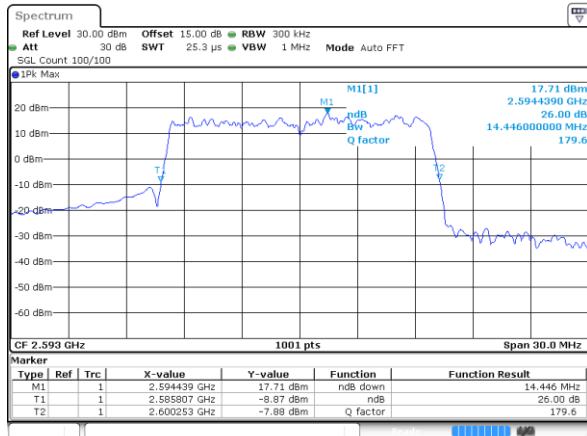
Middle Channel / 10MHz / 16QAM



Date: 24 SEP 2024 07:30:17

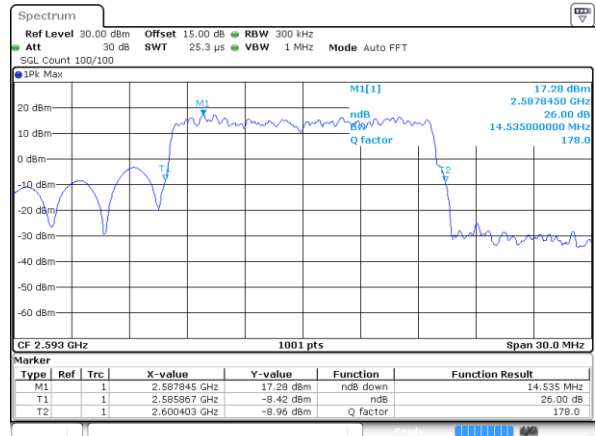


Middle Channel / 15MHz / QPSK



Date: 24 SEP 2024 07:48:45

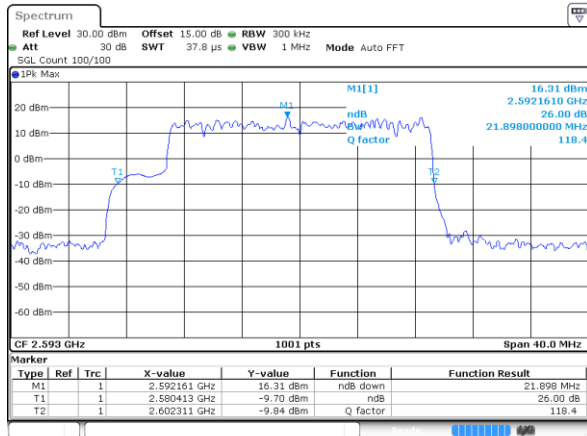
Middle Channel / 15MHz / 16QAM



Date: 24 SEP 2024 07:49:24

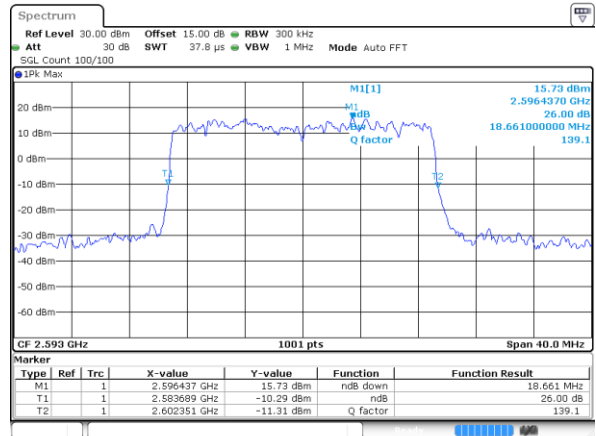
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 24 SEP 2024 08:07:52

Middle Channel / 20MHz / 16QAM

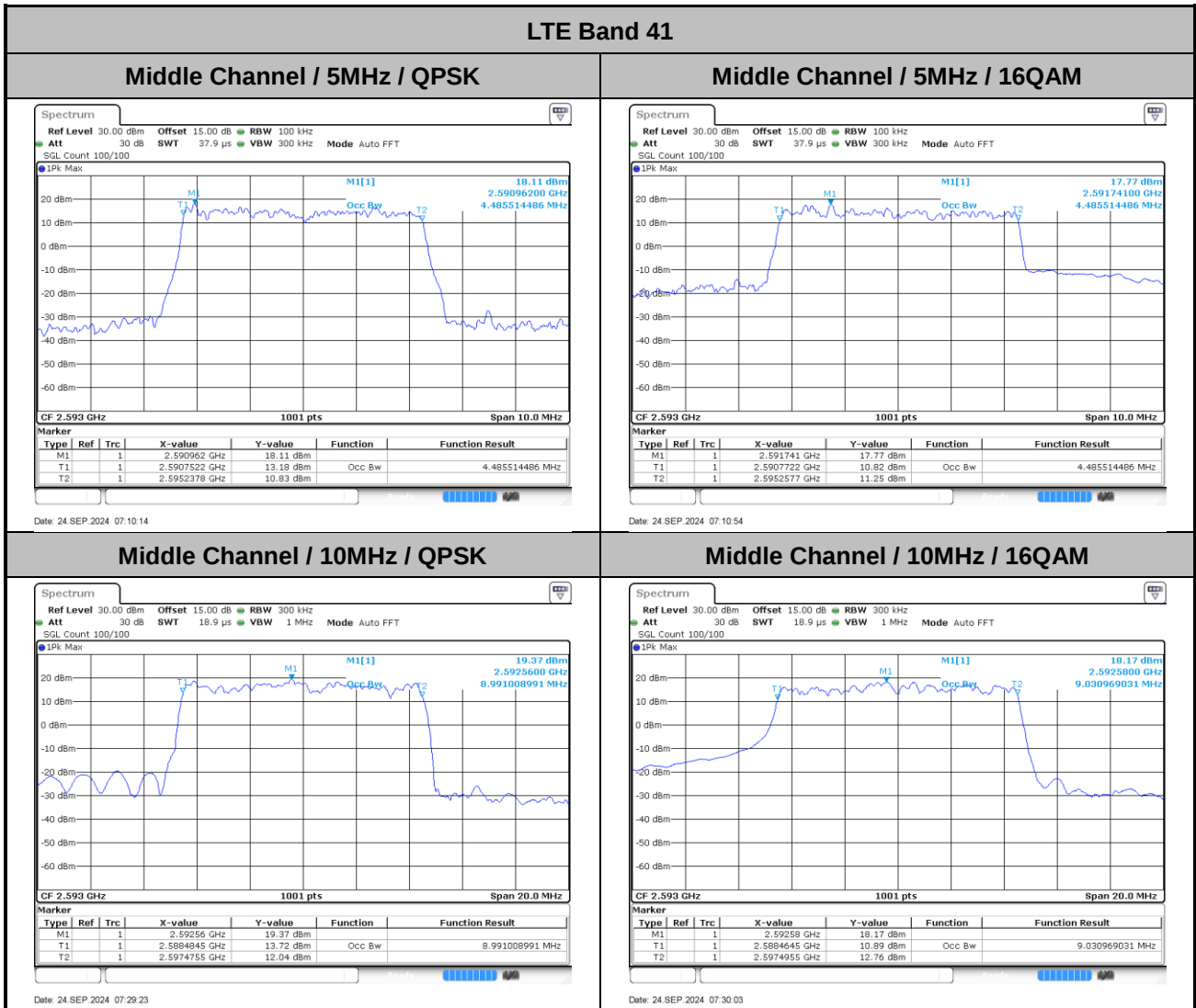


Date: 24 SEP 2024 08:08:32



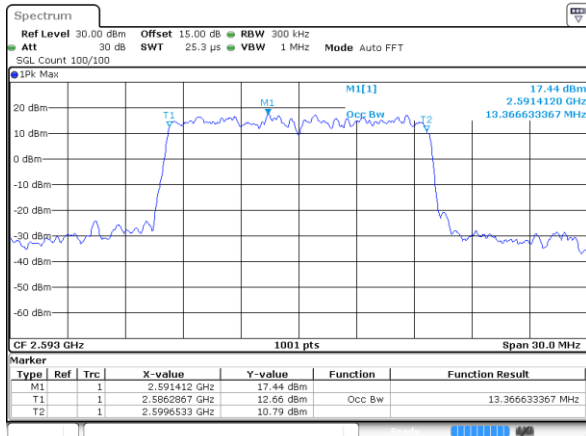
Occupied Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.49	4.49	8.99	9.03	13.37	13.43	17.82	17.90



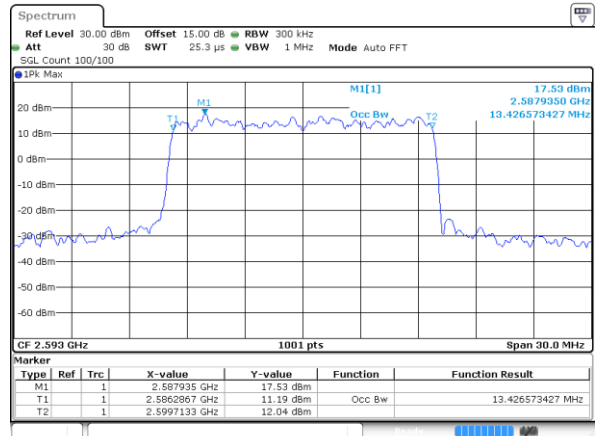


Middle Channel / 15MHz / QPSK



Date: 24 SEP 2024 07:48:31

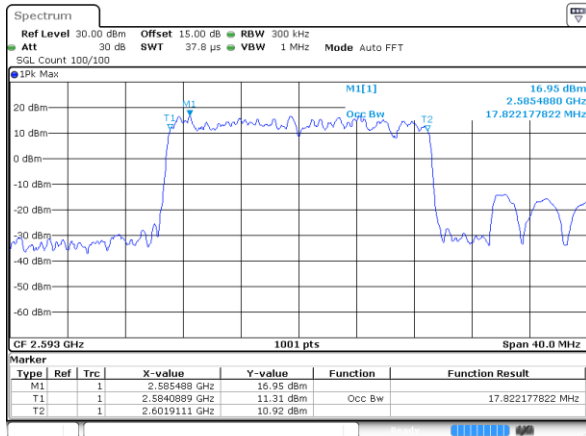
Middle Channel / 15MHz / 16QAM



Date: 24 SEP 2024 07:49:10

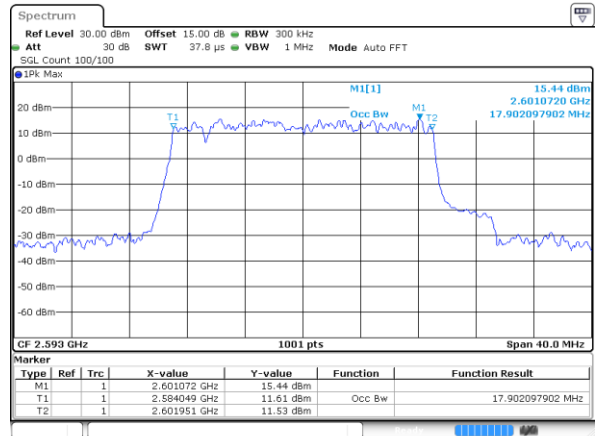
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 24 SEP 2024 08:07:38

Middle Channel / 20MHz / 16QAM



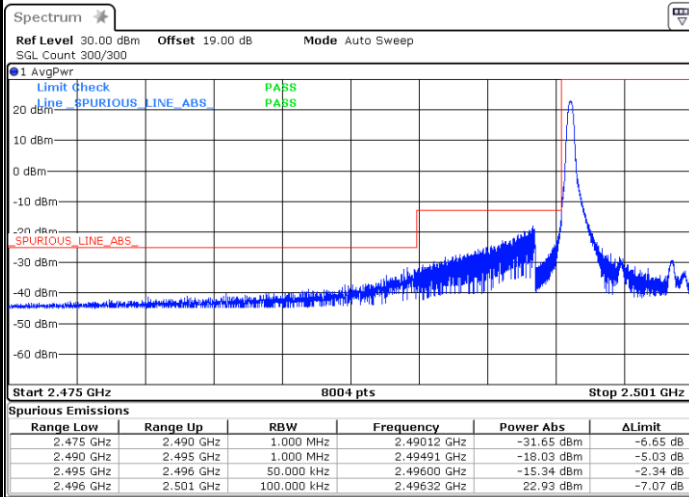
Date: 24 SEP 2024 08:08:18



Conducted Band Edge

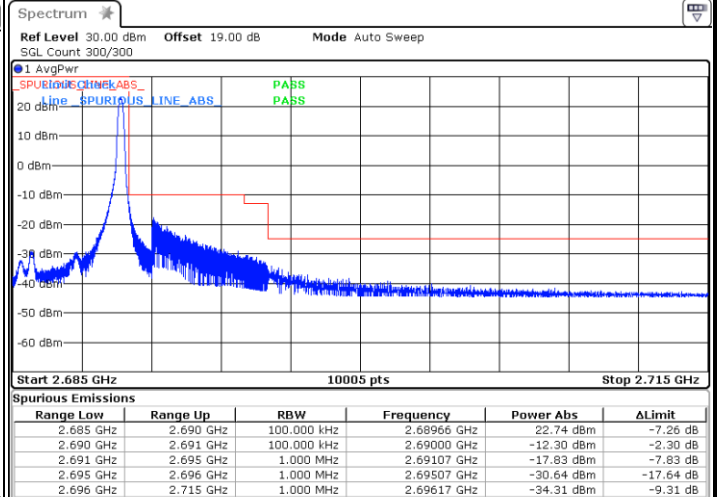
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



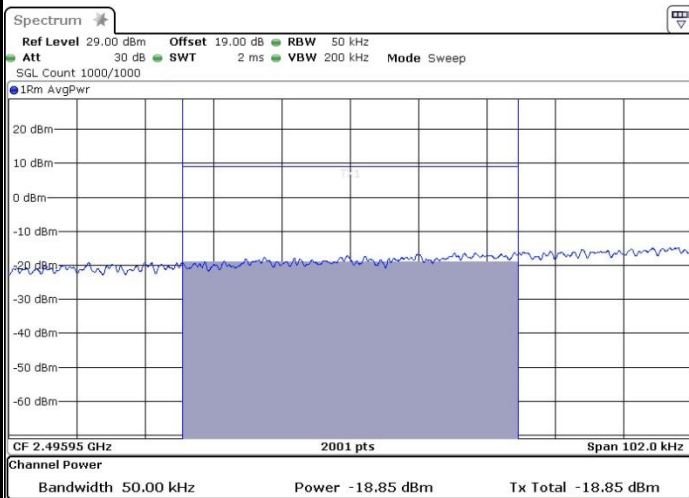
Date: 25 SEP 2024 13:12:20

Highest Band Edge / 1 RB

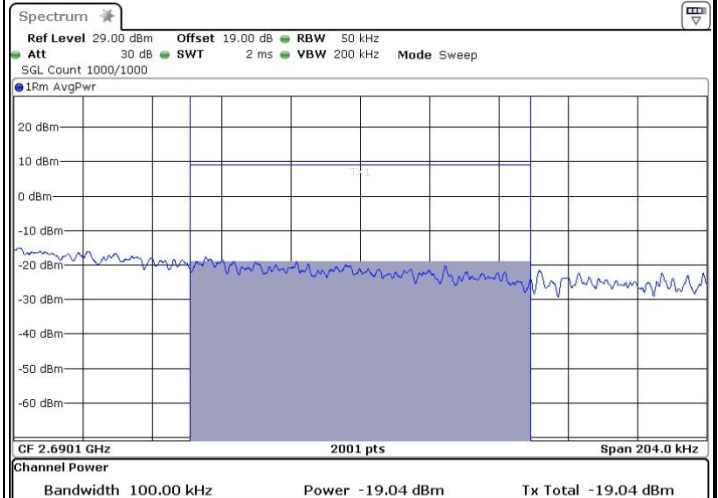


Date: 25 SEP 2024 13:28:00

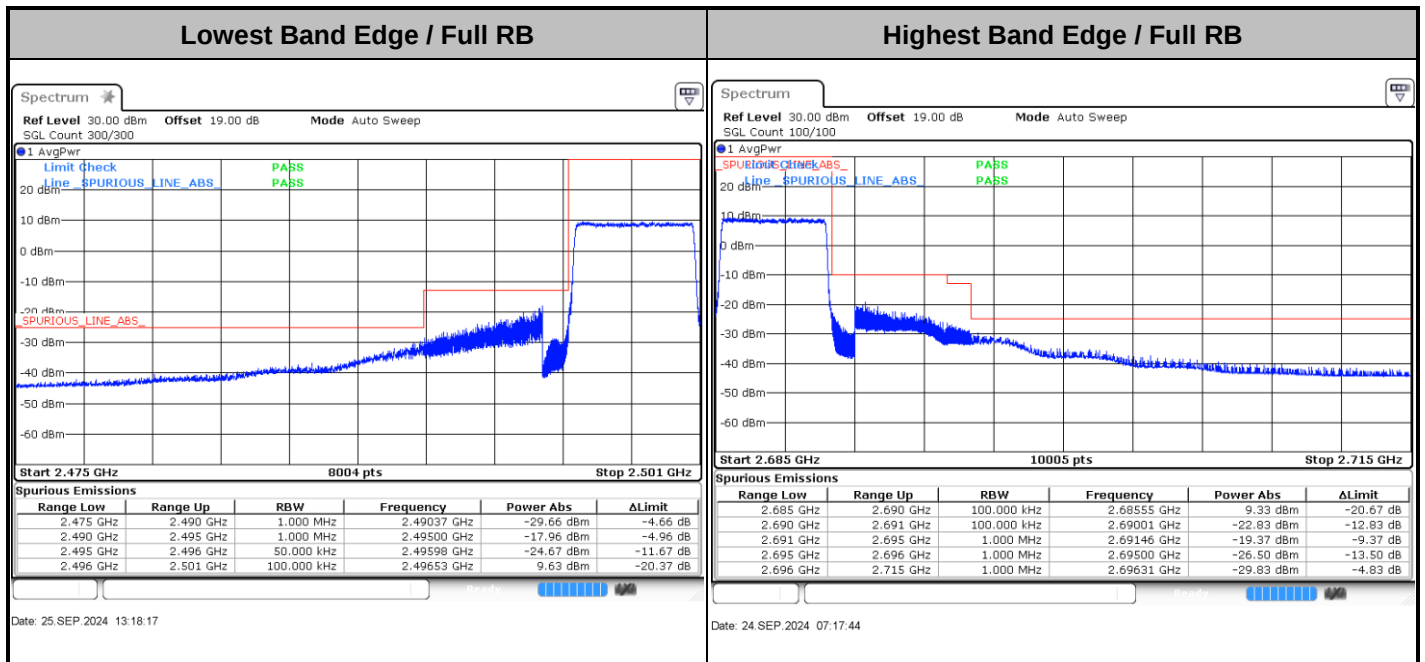
Highest Band Edge / 1 RB-CP



Date: 25 SEP 2024 13:14:39



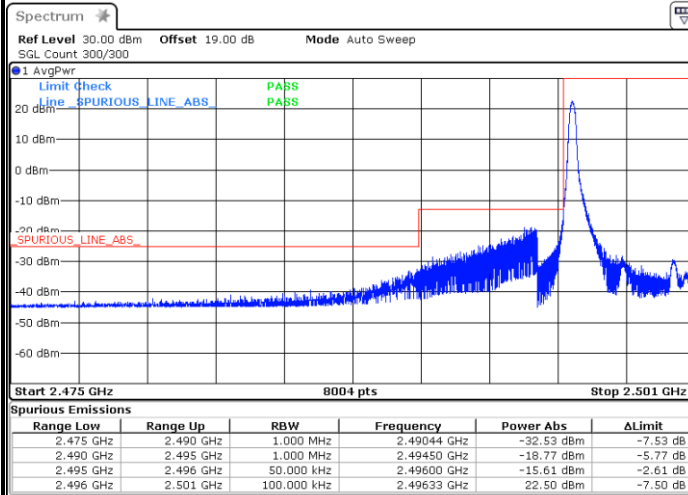
Date: 25 SEP 2024 13:29:22





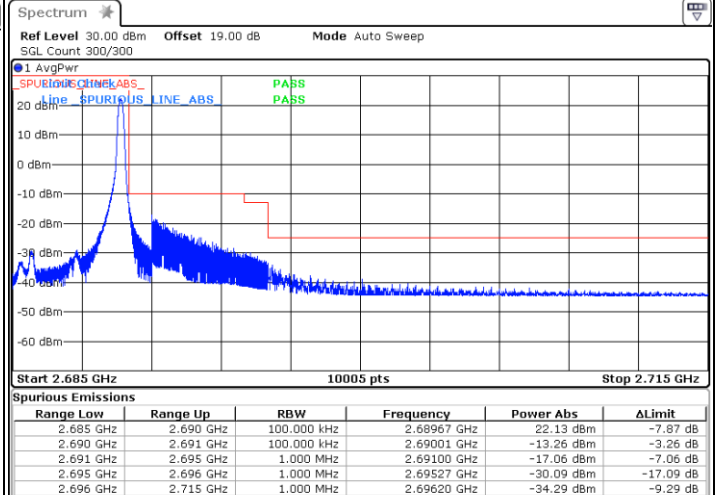
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



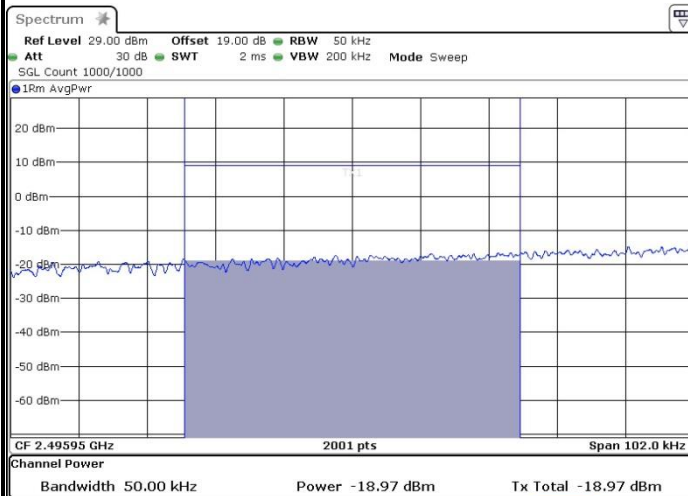
Date: 25 SEP 2024 11:39:47

Highest Band Edge / 1 RB

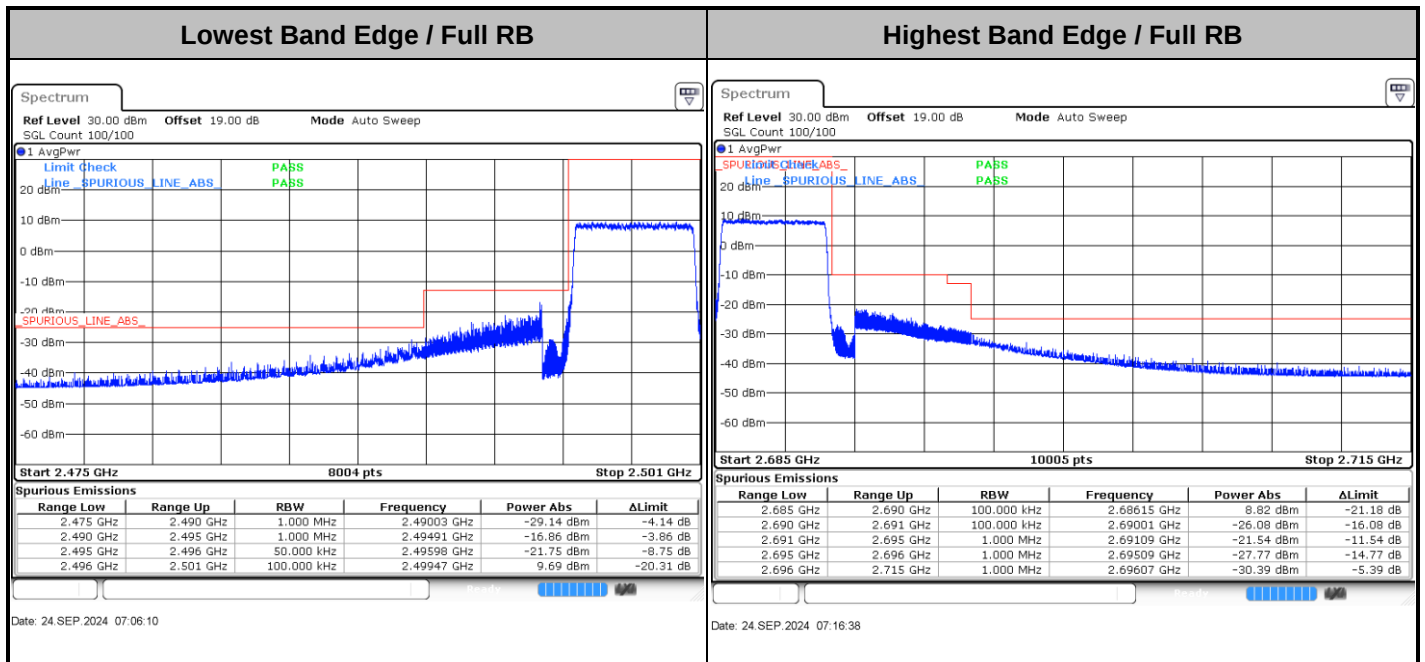


Date: 25 SEP 2024 13:24:32

Lowest Band Edge / 1RB-CP



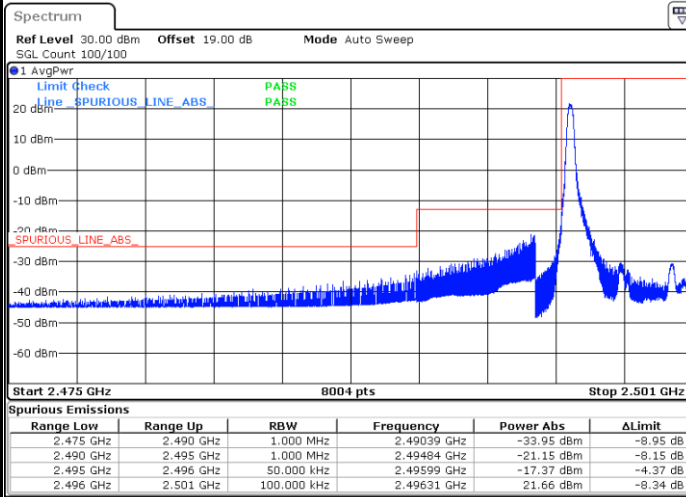
Date: 25 SEP 2024 11:41:54





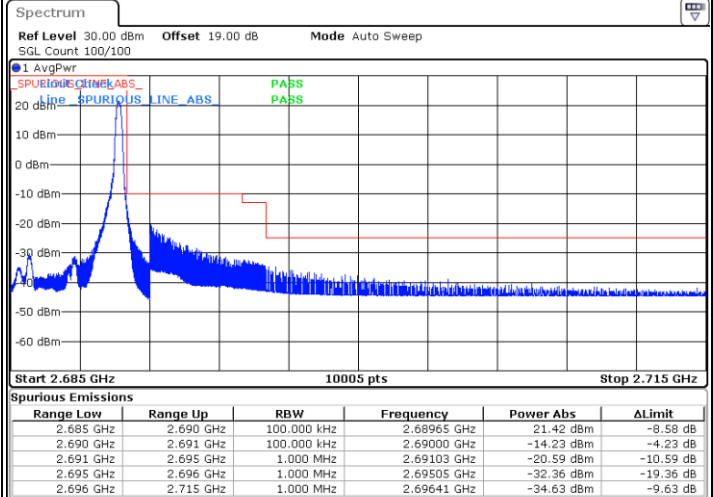
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



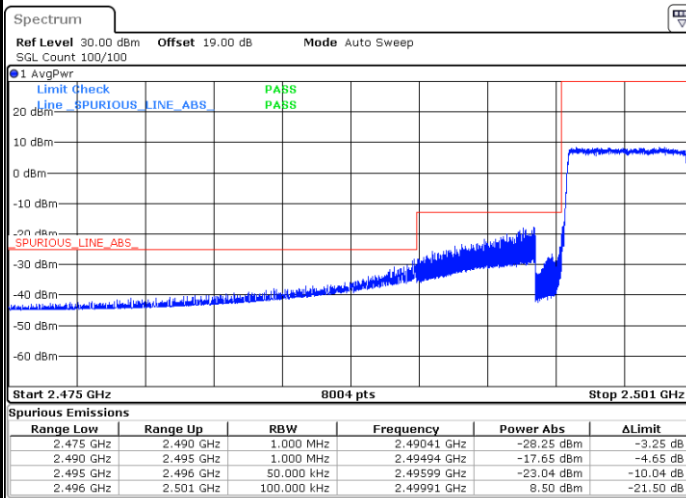
Date: 24 SEP 2024 07:03:56

Highest Band Edge / 1 RB



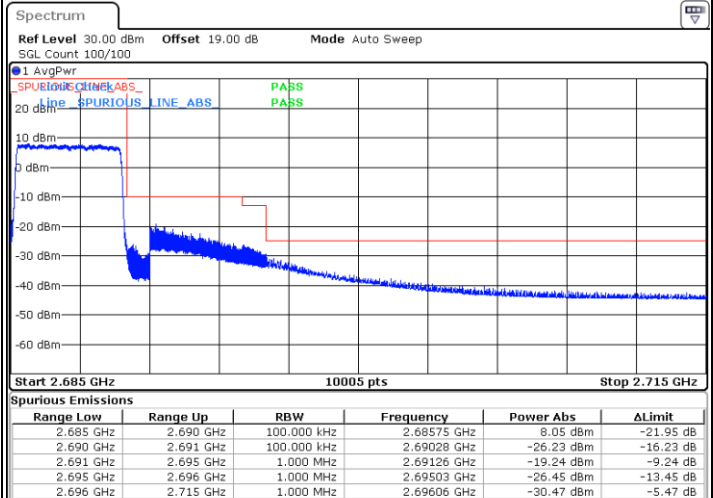
Date: 24 SEP 2024 07:14:25

Lowest Band Edge / Full RB



Date: 24 SEP 2024 07:05:03

Highest Band Edge / Full RB

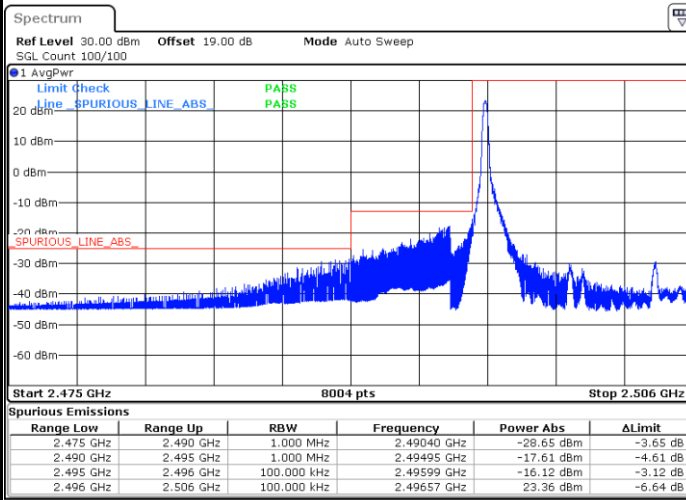


Date: 24 SEP 2024 07:15:32

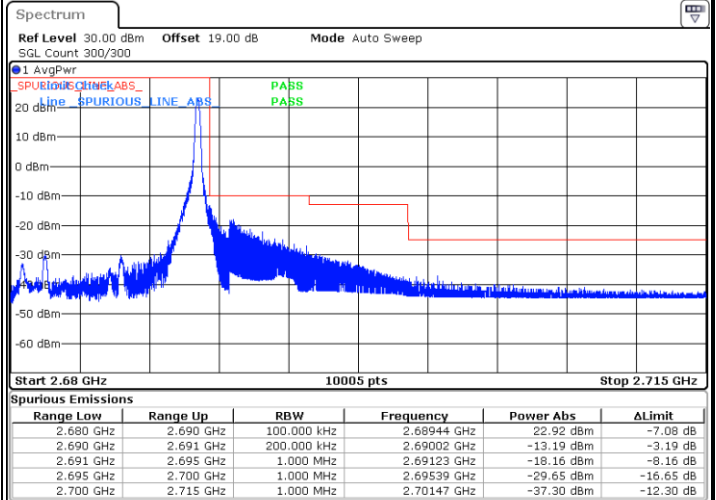


LTE Band 41 / 10MHz / QPSK

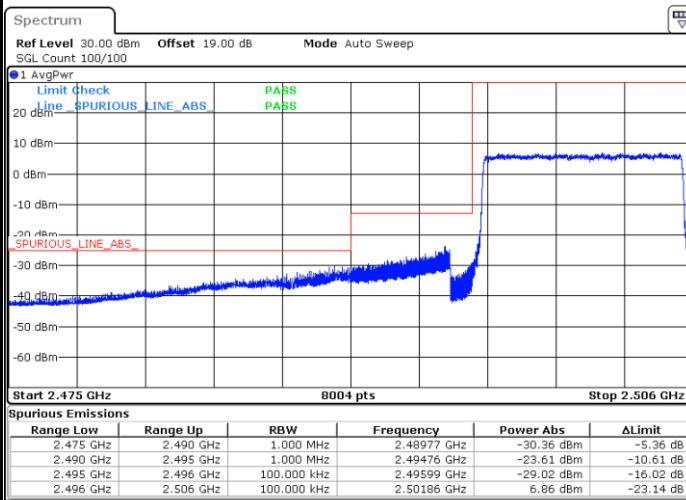
Lowest Band Edge / 1 RB



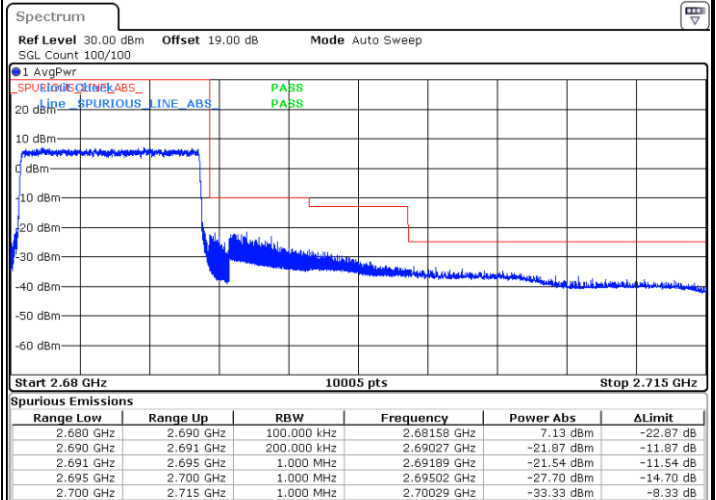
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



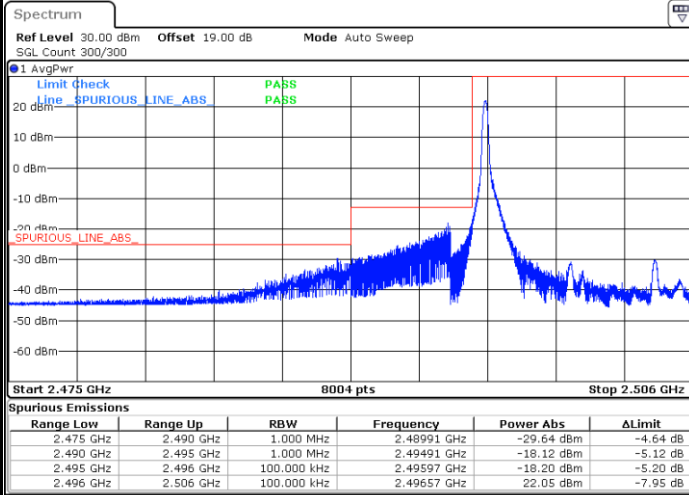
Highest Band Edge / Full RB





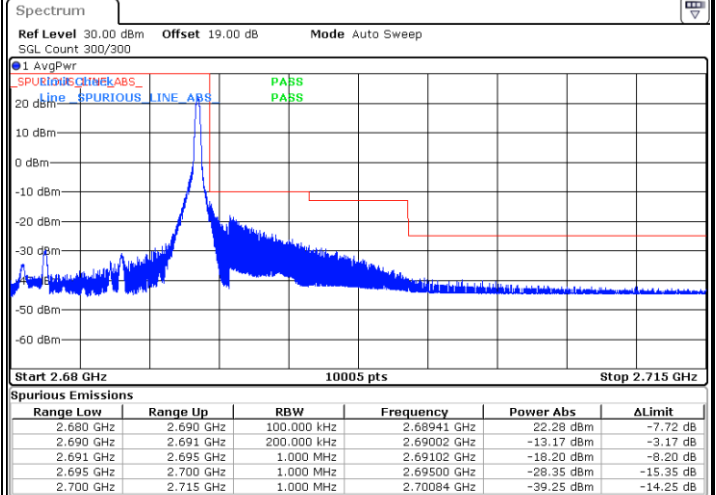
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



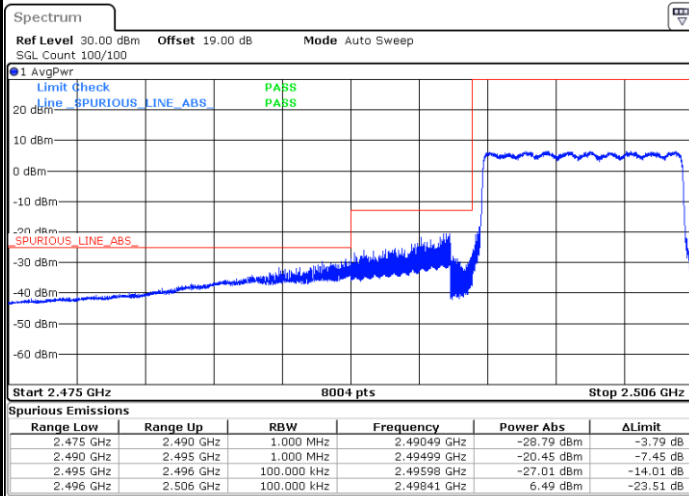
Date: 25 SEP 2024 13:33:05

Highest Band Edge / 1 RB



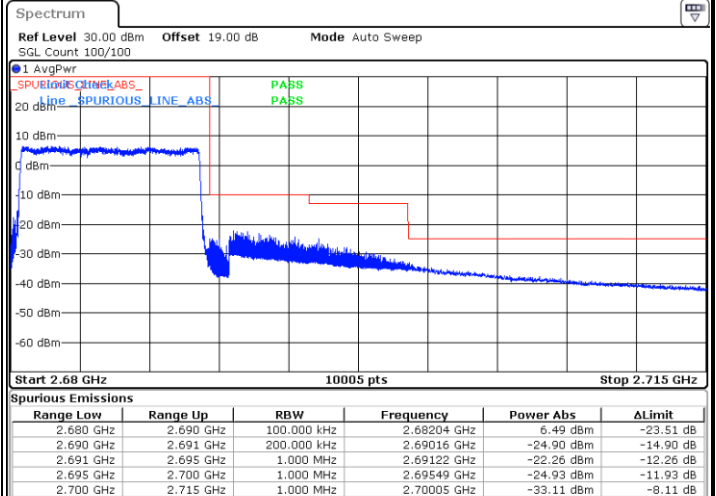
Date: 25 SEP 2024 13:37:18

Lowest Band Edge / Full RB



Date: 24 SEP 2024 07:25:19

Highest Band Edge / Full RB

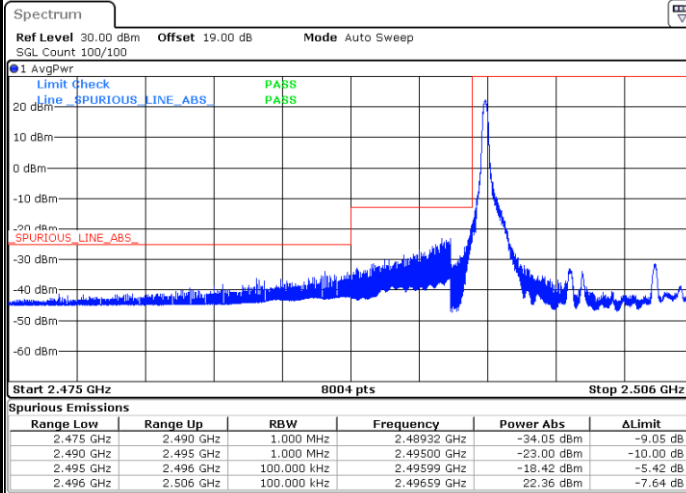


Date: 24 SEP 2024 07:35:47



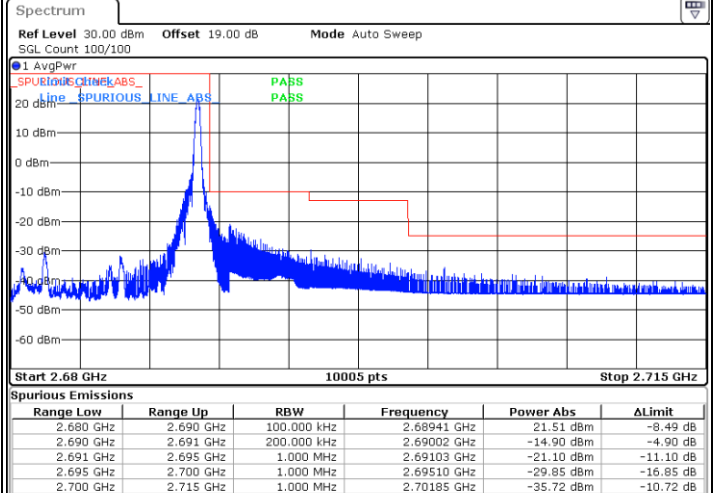
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



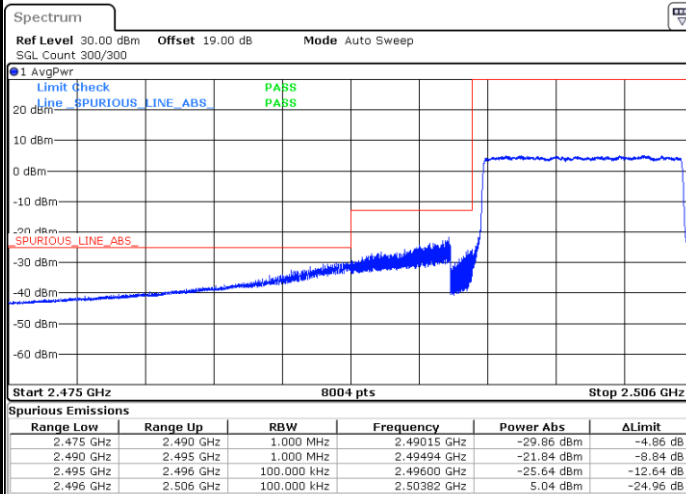
Date: 24 SEP 2024 07:23:06

Highest Band Edge / 1 RB



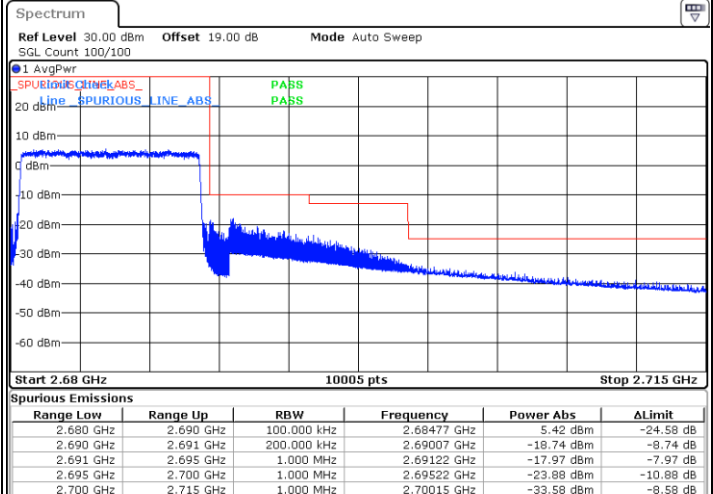
Date: 24 SEP 2024 07:33:34

Lowest Band Edge / Full RB



Date: 25 SEP 2024 13:35:18

Highest Band Edge / Full RB

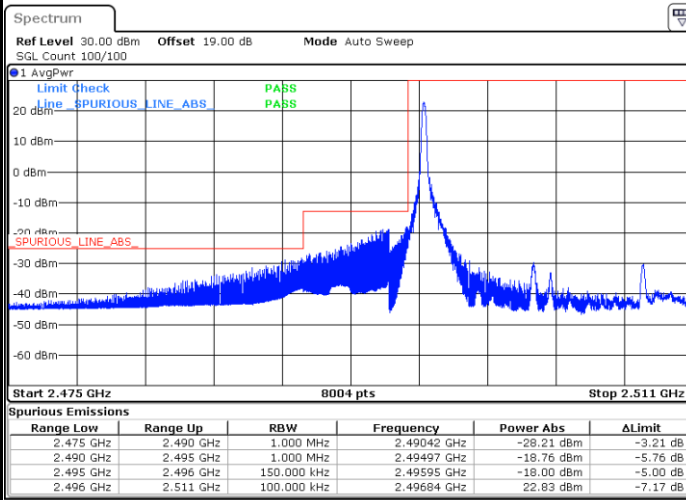


Date: 24 SEP 2024 07:34:41

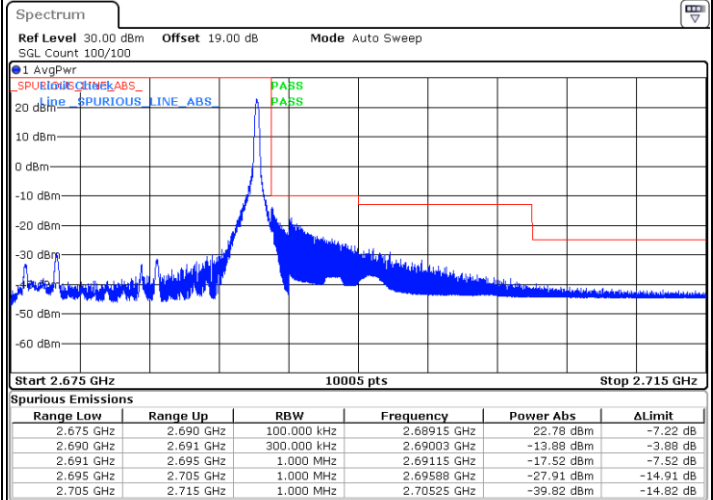


LTE Band 41 / 15MHz / QPSK

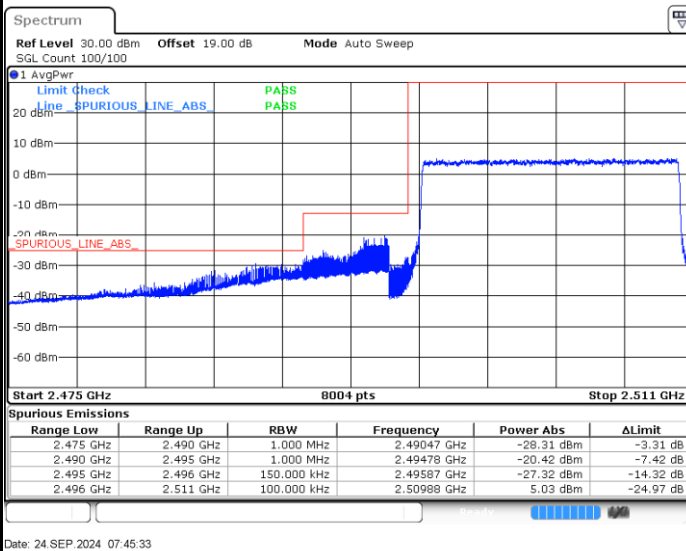
Lowest Band Edge / 1 RB



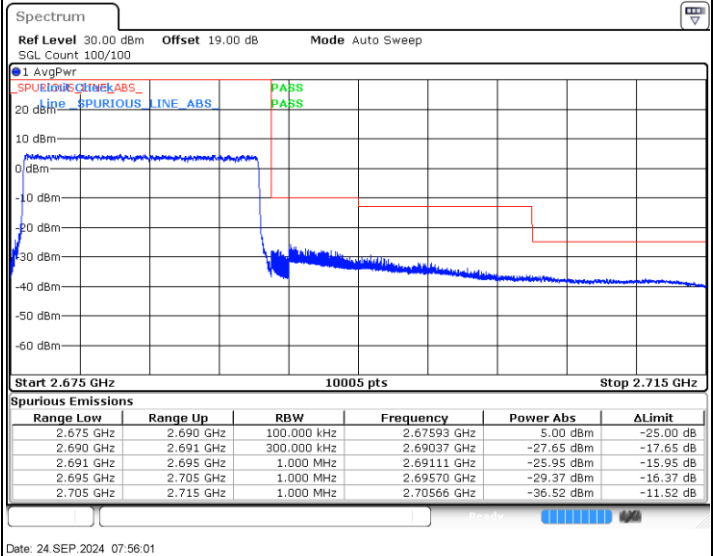
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



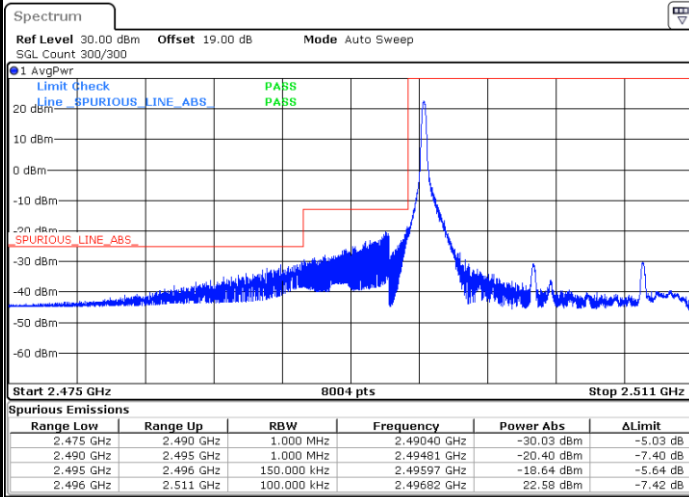
Highest Band Edge / Full RB





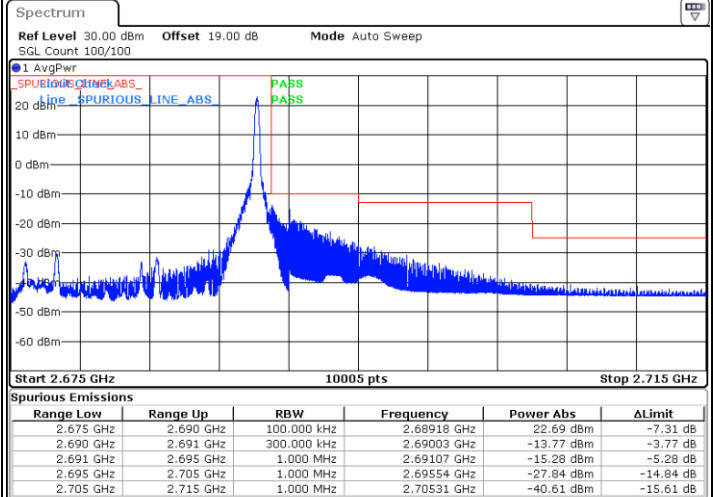
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1RB



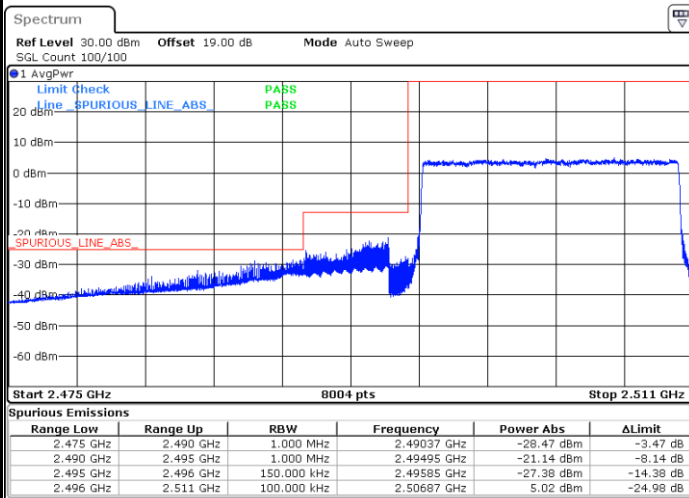
Date: 25 SEP 2024 13:54:21

Highest Band Edge / 1 RB



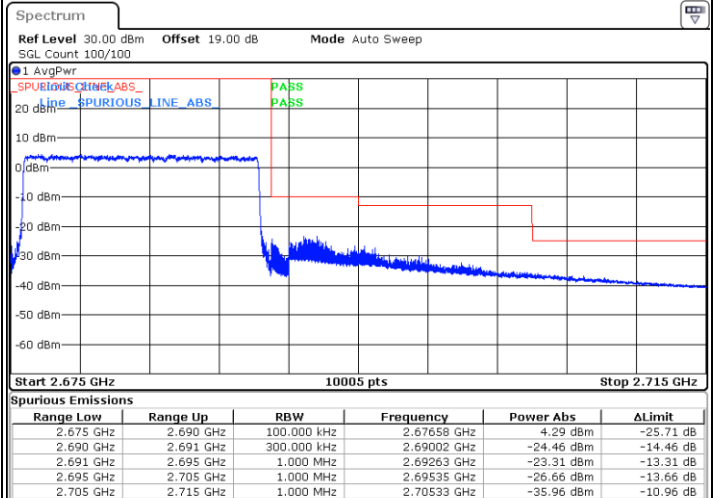
Date: 24 SEP 2024 07:51:36

Lowest Band Edge / Full RB



Date: 24 SEP 2024 07:44:27

Highest Band Edge / Full RB

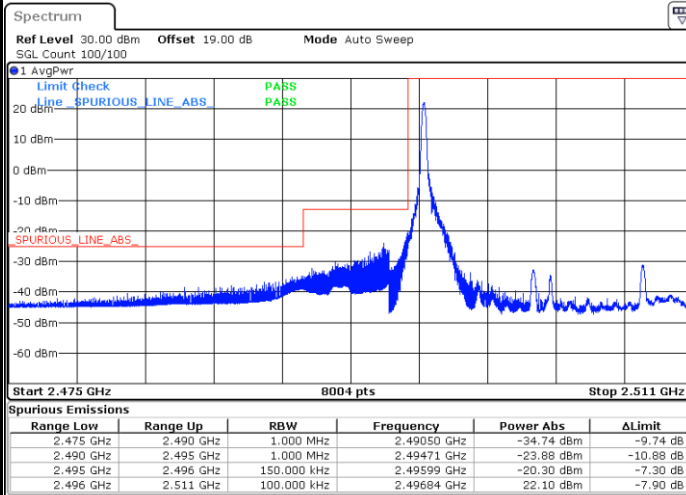


Date: 24 SEP 2024 07:54:55



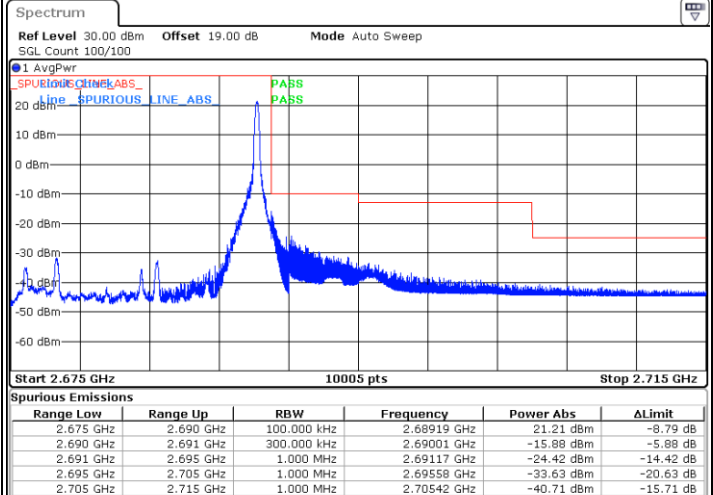
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1RB



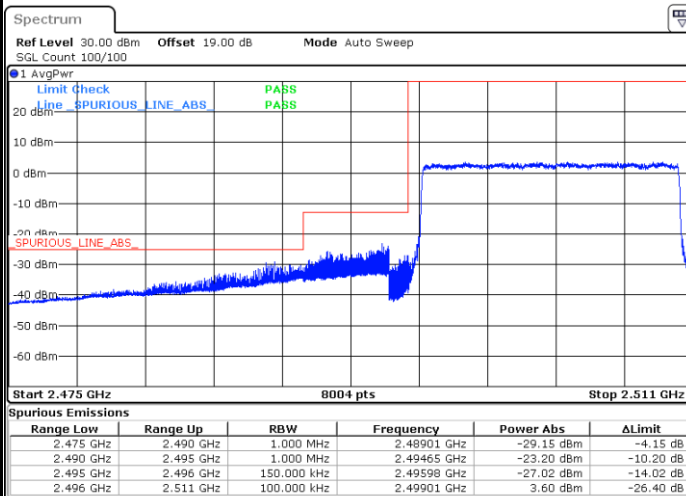
Date: 24 SEP 2024 07:42:14

Highest Band Edge / 1 RB



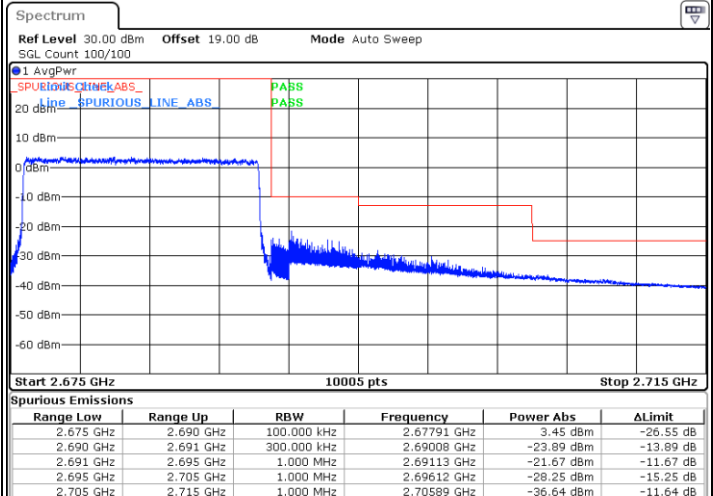
Date: 24 SEP 2024 07:52:42

Lowest Band Edge / Full RB



Date: 24 SEP 2024 07:43:21

Highest Band Edge / Full RB

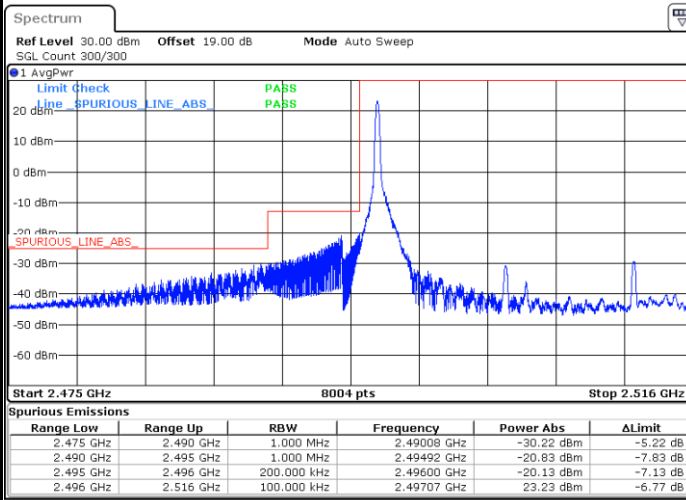


Date: 24 SEP 2024 07:53:48

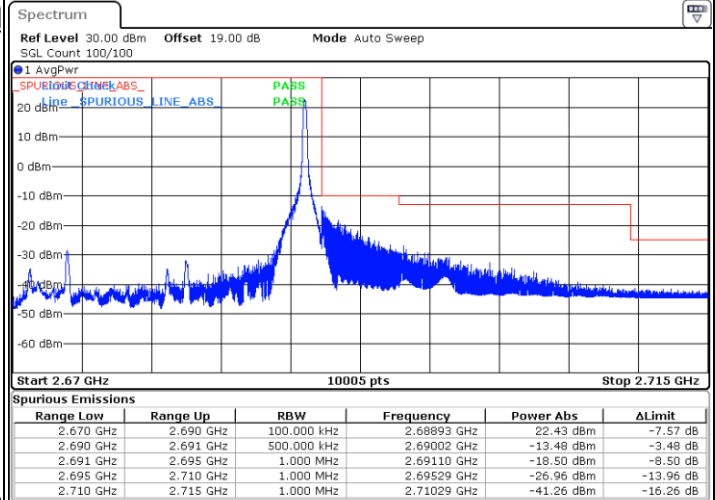


LTE Band 41 / 20MHz / QPSK

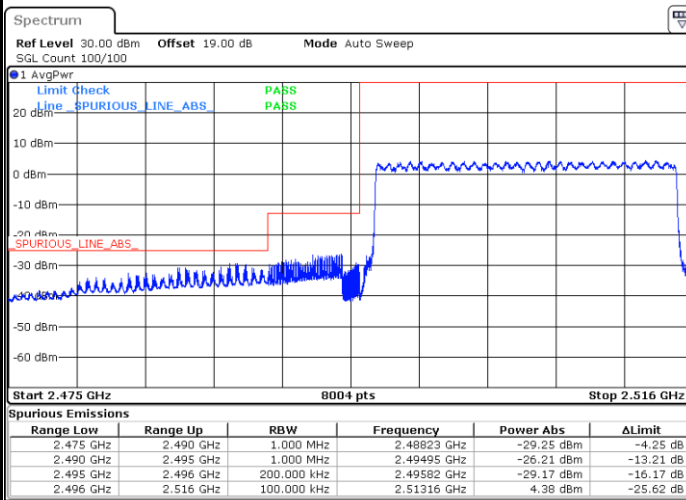
Lowest Band Edge / 1 RB



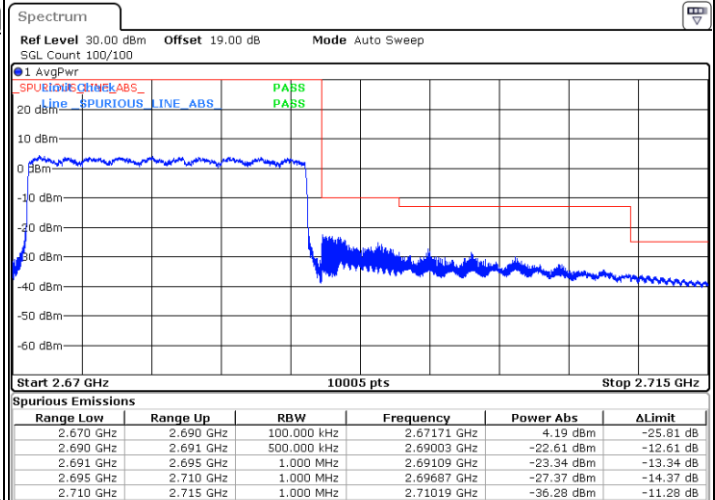
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



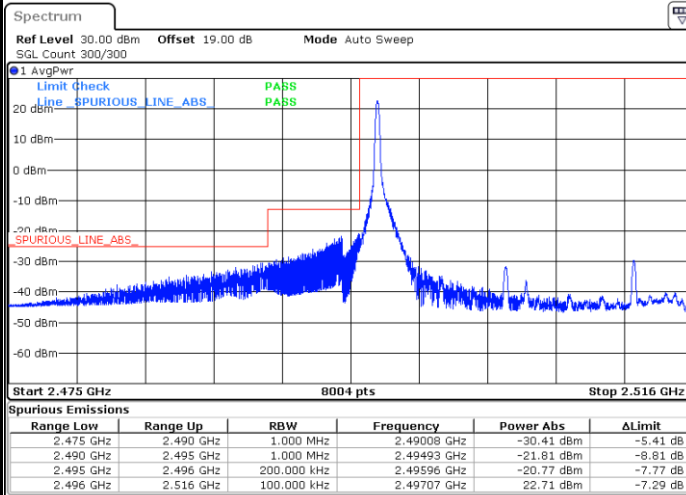
Highest Band Edge / Full RB





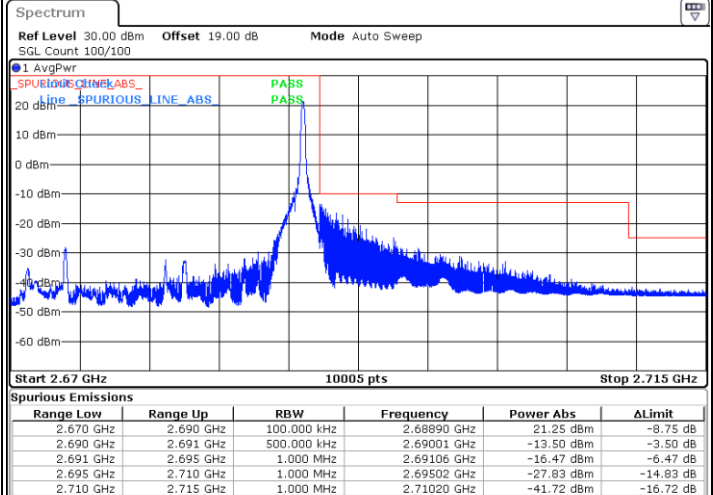
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1RB



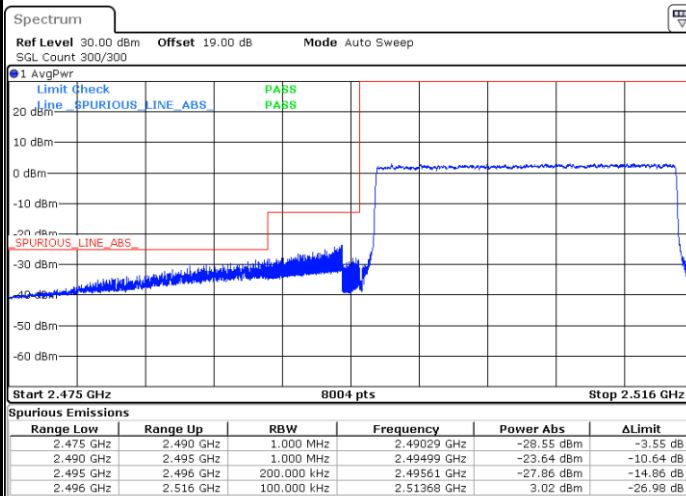
Date: 25 SEP 2024 13:50:00

Highest Band Edge / 1 RB



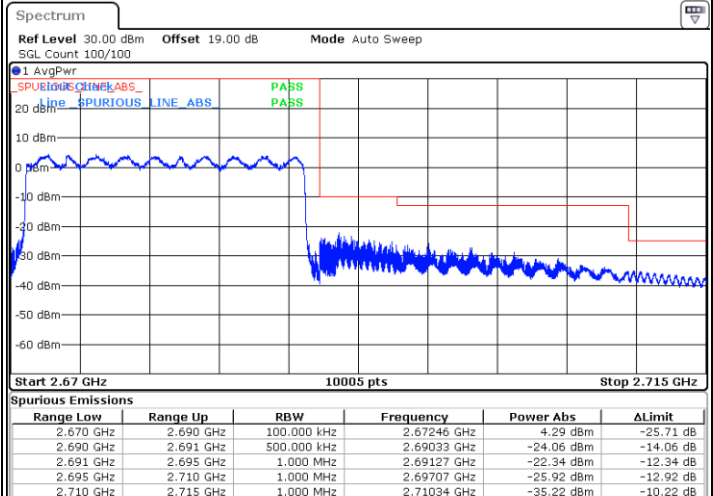
Date: 24 SEP 2024 08:12:05

Lowest Band Edge / Full RB



Date: 25 SEP 2024 13:51:47

Highest Band Edge / Full RB

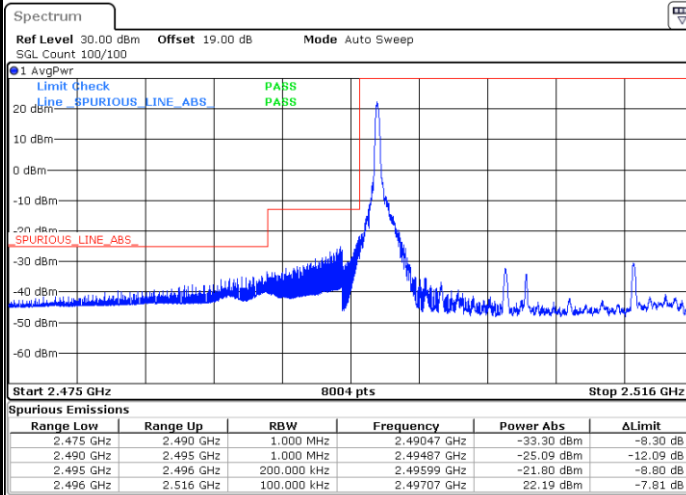


Date: 24 SEP 2024 08:15:25



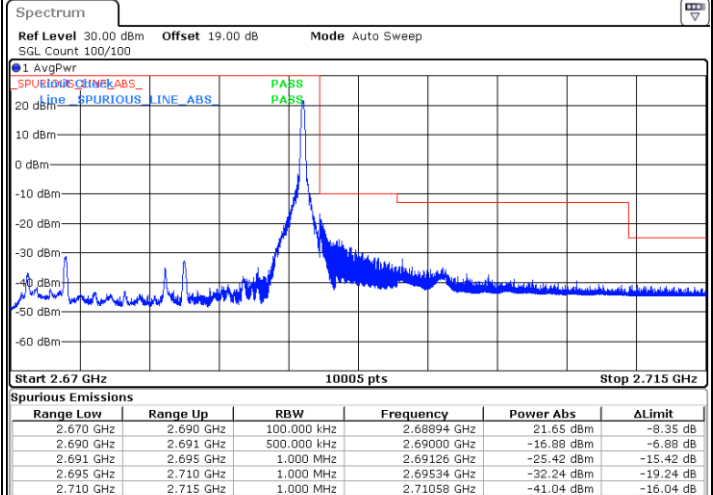
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1RB



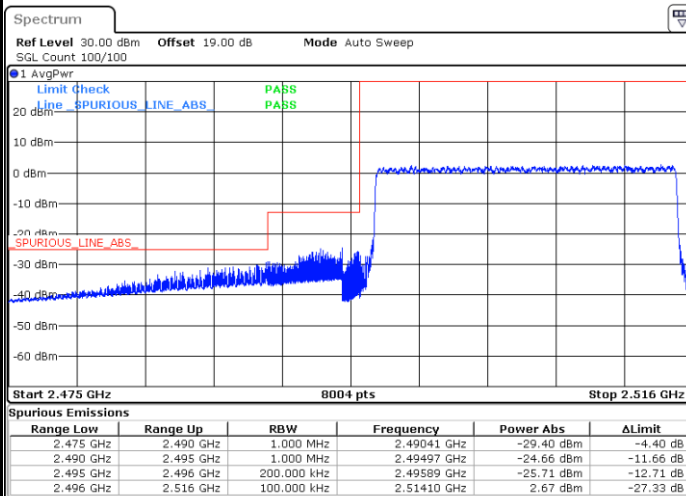
Date: 24 SEP 2024 08:01:21

Highest Band Edge / 1 RB



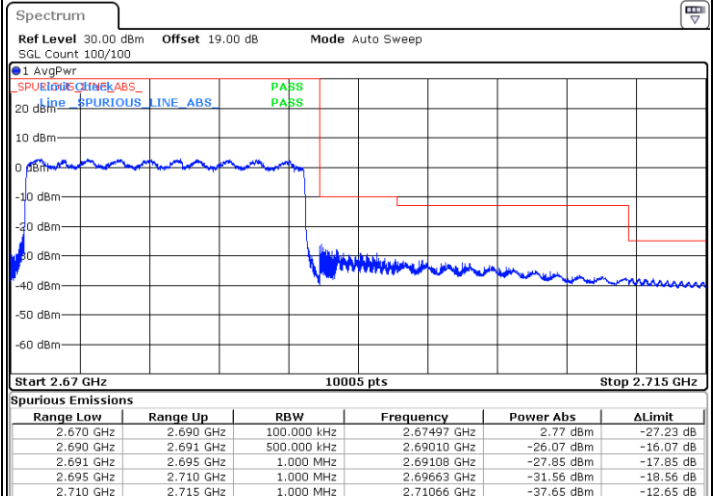
Date: 24 SEP 2024 08:13:11

Lowest Band Edge / Full RB



Date: 24 SEP 2024 08:02:28

Highest Band Edge / Full RB



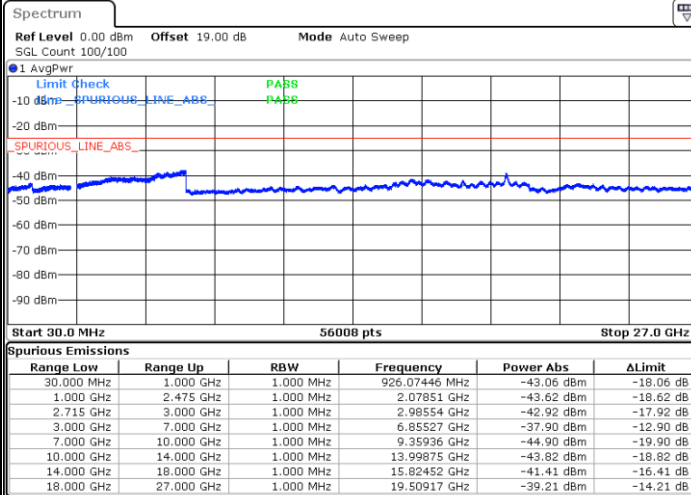
Date: 24 SEP 2024 08:14:17



Conducted Spurious Emission

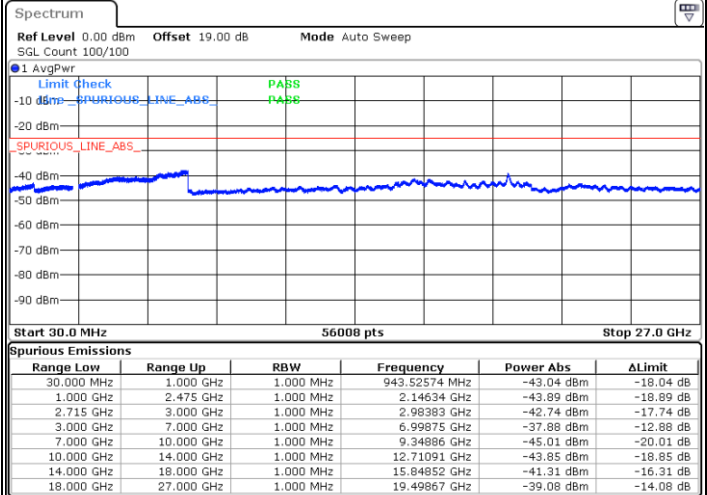
LTE Band 41 / 5MHz

Lowest Channel / QPSK



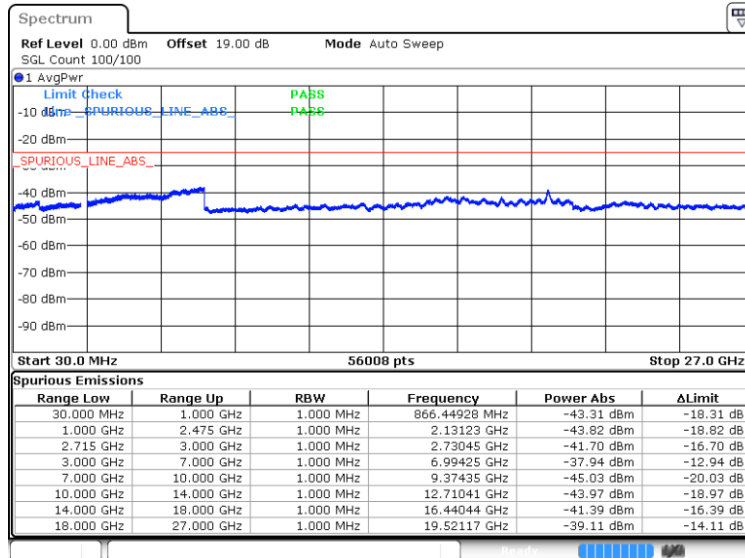
Date: 24 SEP 2024 07:08:32

Middle Channel / QPSK



Date: 24 SEP 2024 07:09:47

Highest Channel / QPSK

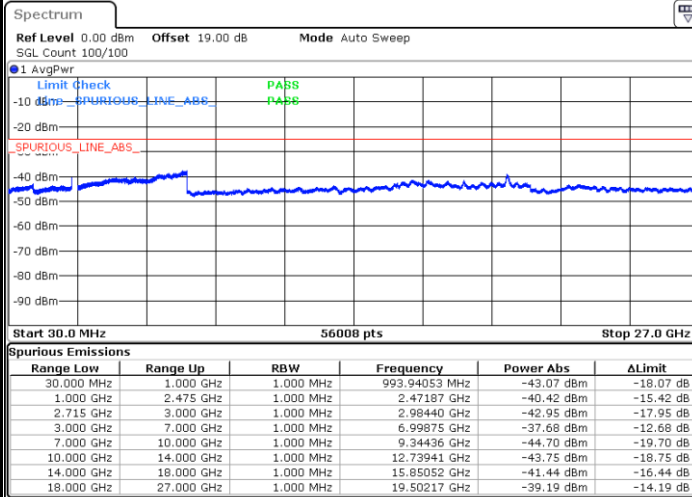


Date: 24 SEP 2024 07:19:00



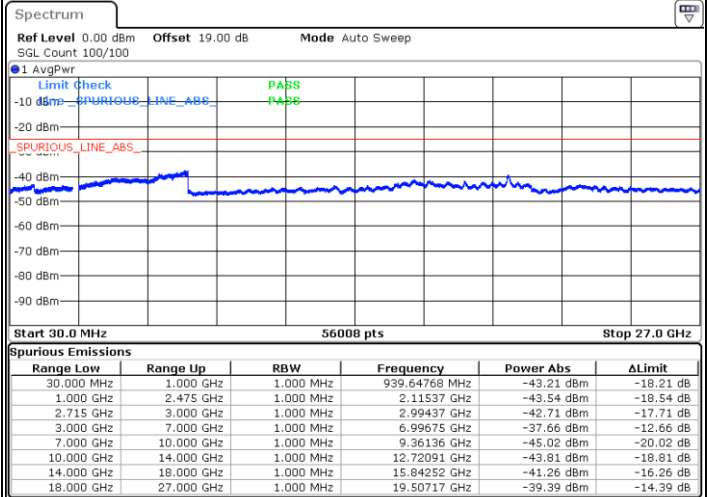
LTE Band 41 / 10MHz

Lowest Channel / QPSK



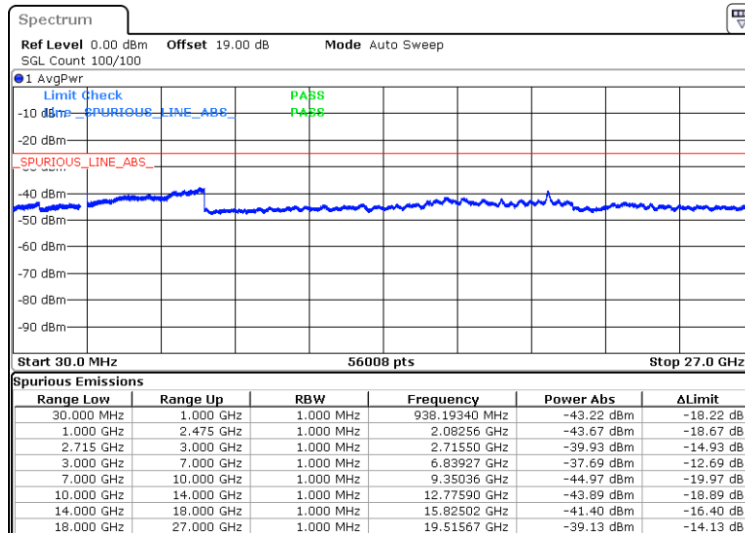
Date: 24 SEP 2024 07:27:41

Middle Channel / QPSK



Date: 24 SEP 2024 07:28:56

Highest Channel / QPSK

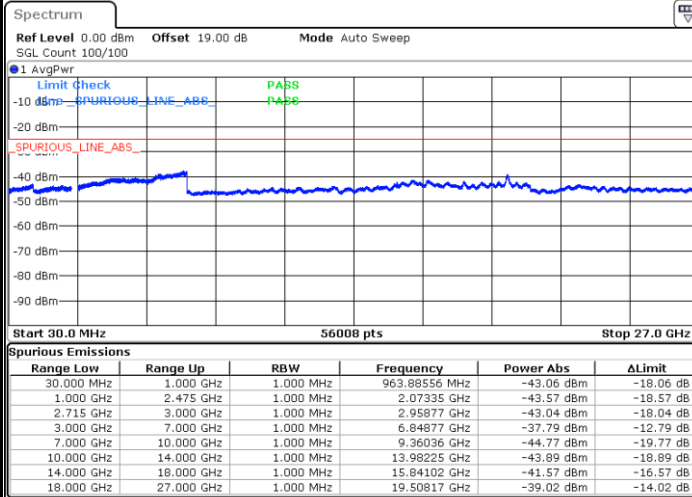


Date: 24 SEP 2024 07:38:09



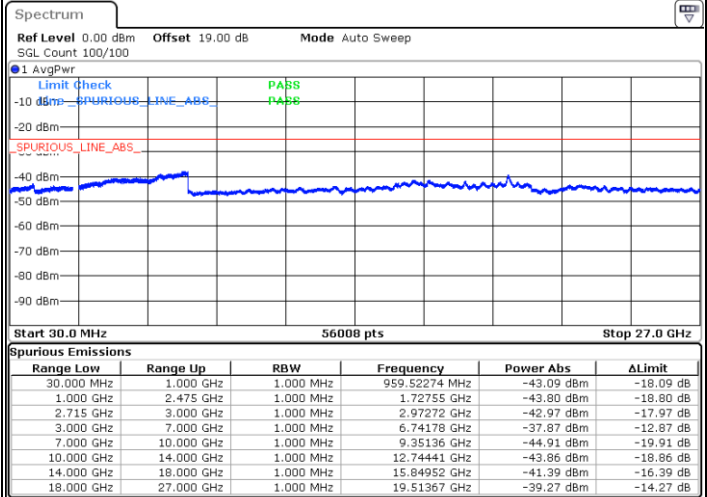
LTE Band 41 / 15MHz

Lowest Channel / QPSK



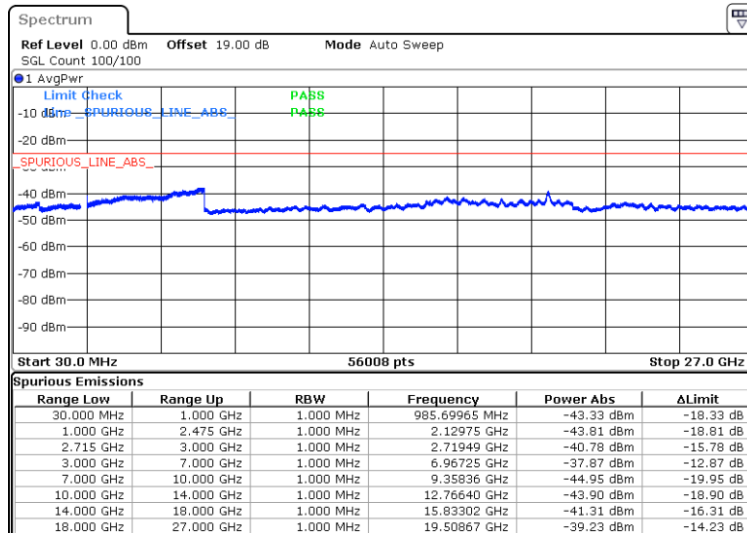
Date: 24 SEP 2024 07:46:49

Middle Channel / QPSK



Date: 24 SEP 2024 07:48:04

Highest Channel / QPSK

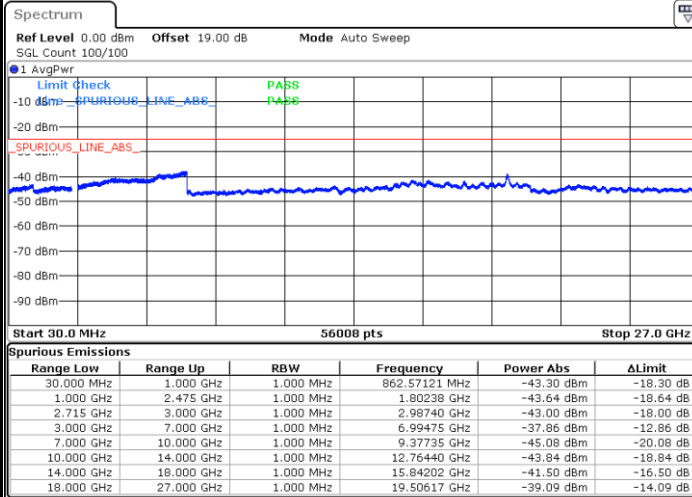


Date: 24 SEP 2024 07:57:16



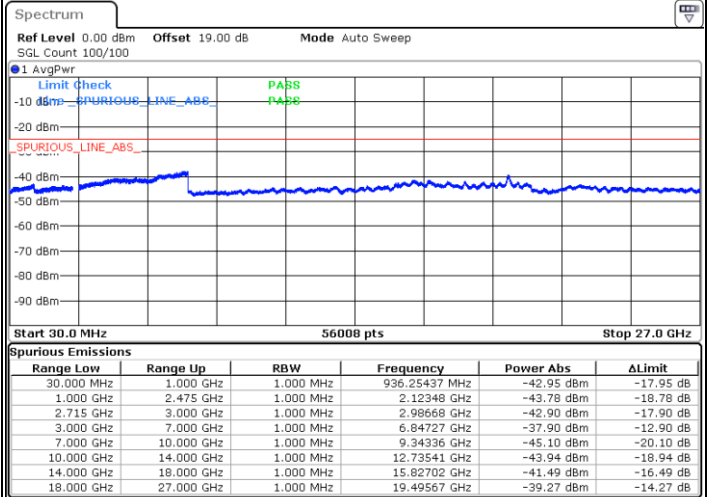
LTE Band 41 / 20MHz

Lowest Channel / QPSK



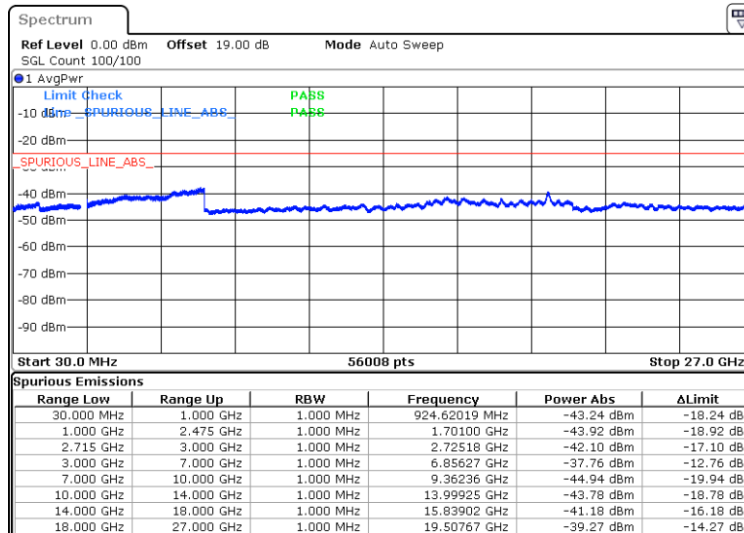
Date: 24 SEP 2024 08:05:56

Middle Channel / QPSK



Date: 24 SEP 2024 08:07:11

Highest Channel / QPSK



Date: 24 SEP 2024 08:17:47

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	0.0037	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0033	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage = 4V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage = 4.53V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C

26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.03	25.38	30.63	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	35.25	39.88	

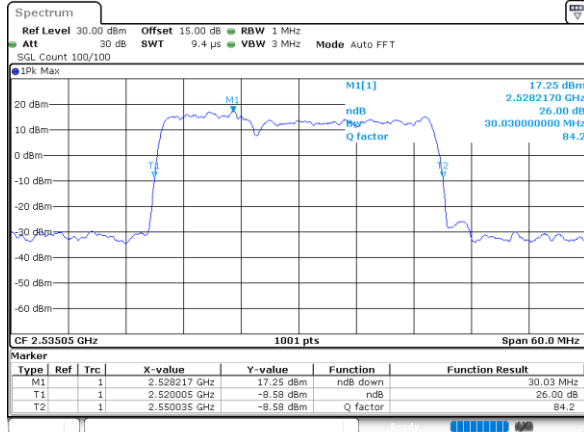
Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.09	25.43	30.69	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.11	40.04	



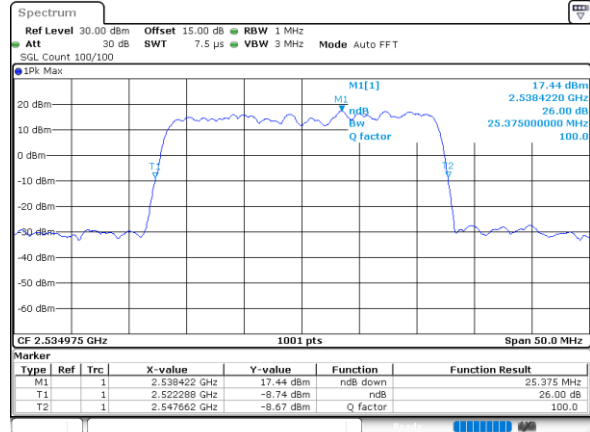
LTE Band 7C

QPSK

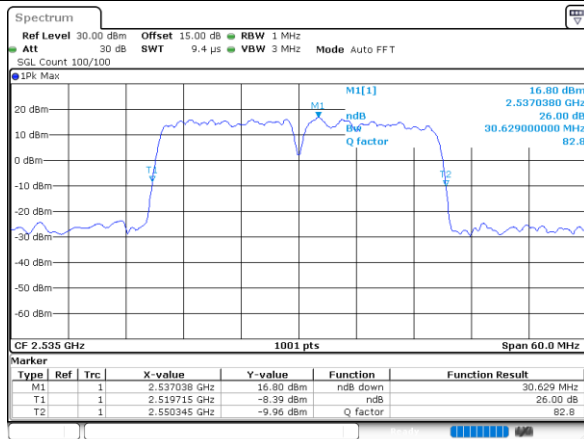
Middle Channel / 10MHz+20MHz



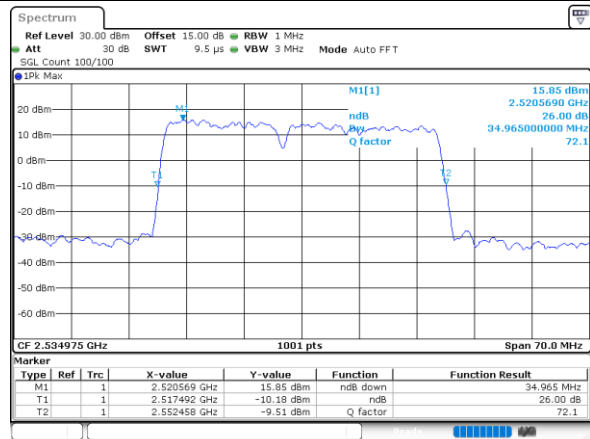
Middle Channel / 15MHz+10MHz



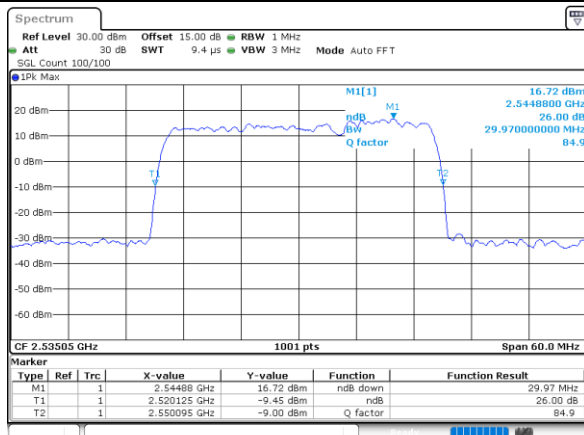
Middle Channel / 15MHz+15MHz



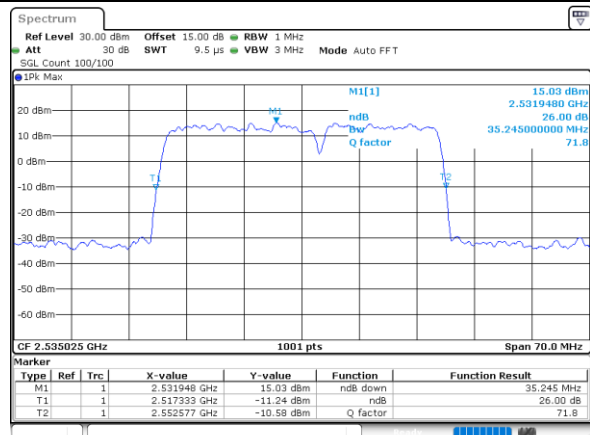
Middle Channel / 15MHz+20MHz

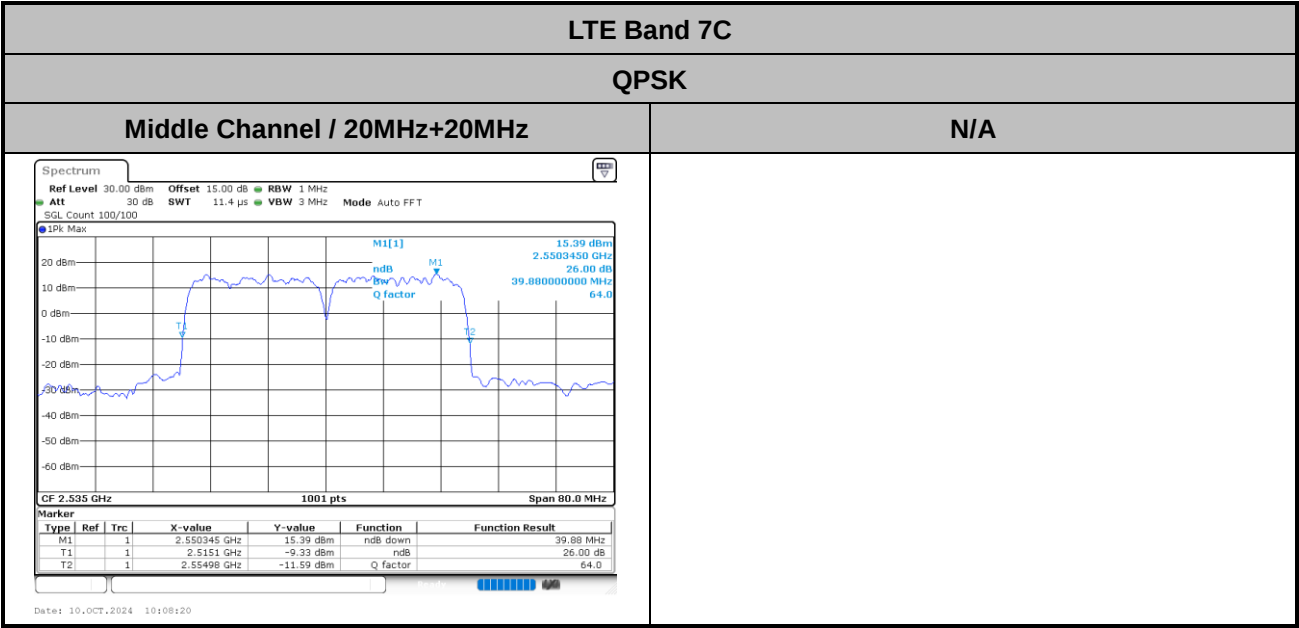


Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



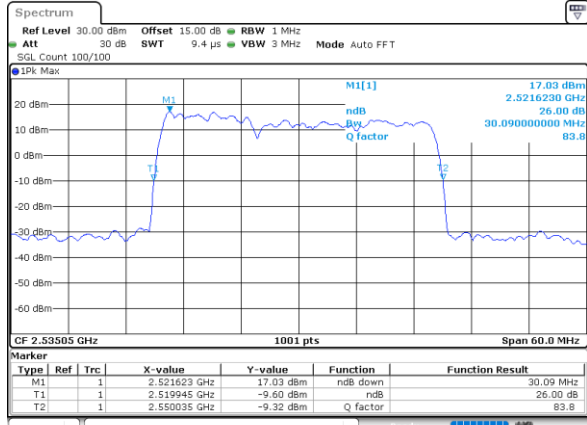




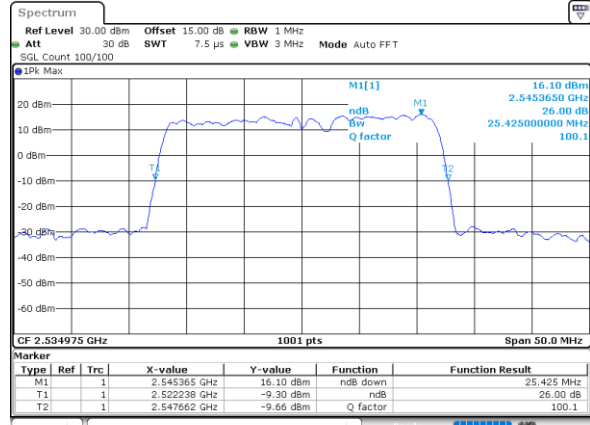
LTE Band 7C

16QAM

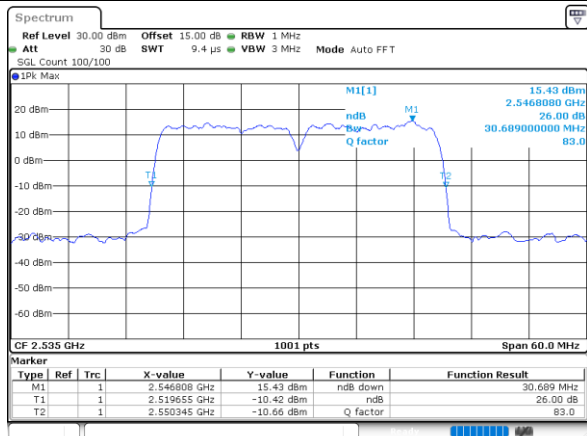
Middle Channel / 10MHz+20MHz



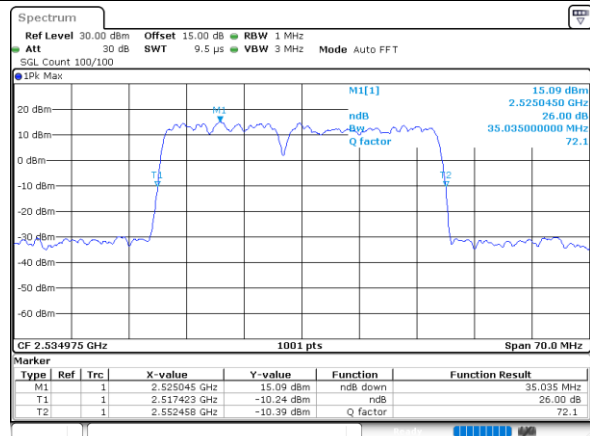
Middle Channel / 15MHz+10MHz



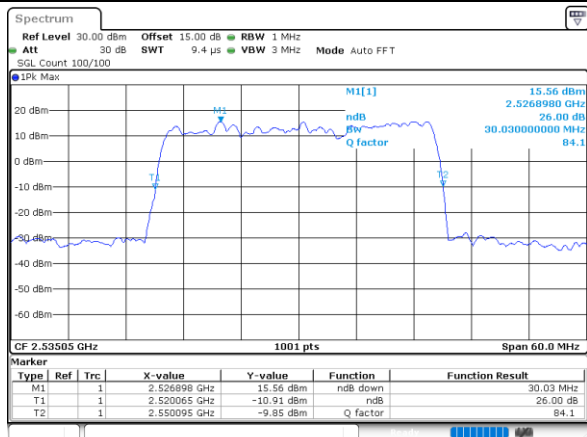
Middle Channel / 15MHz+15MHz



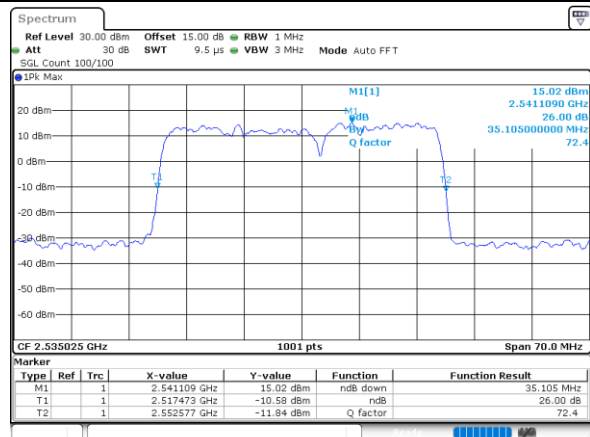
Middle Channel / 15MHz+20MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



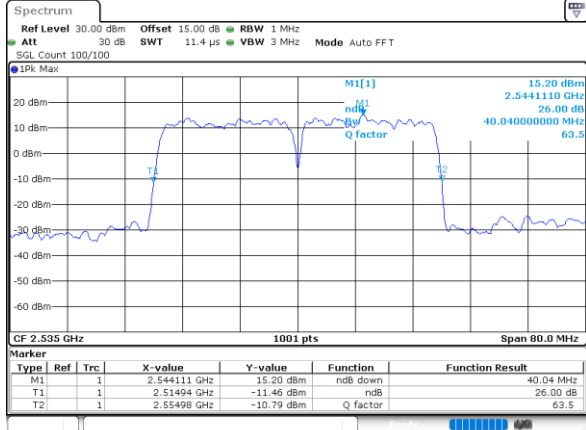


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 10, OCT, 2024 10:08:57

**Occupied Bandwidth**

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.05	23.38	28.77	32.73
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.73	37.80	

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.17	23.48	28.71	32.87
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.73	37.56	