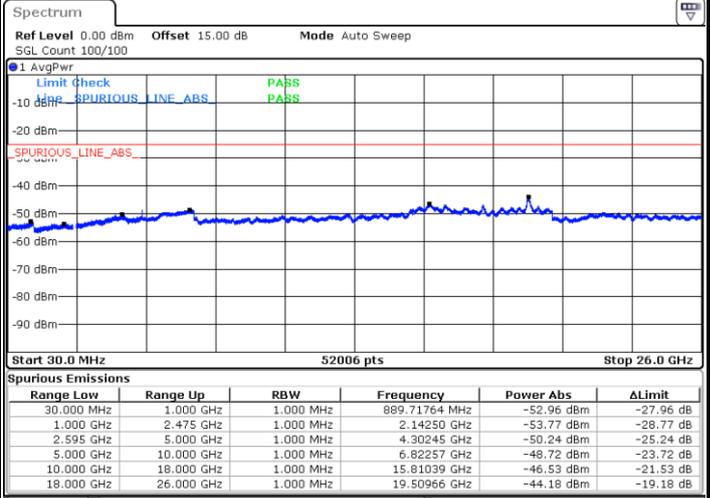
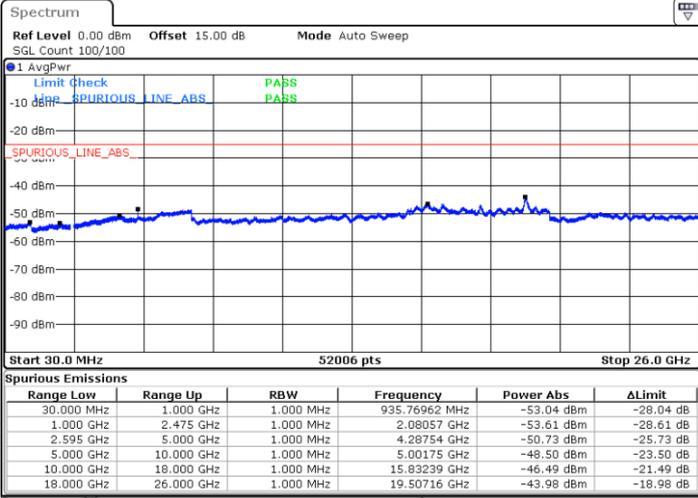




LTE Band 7 / 15MHz

Lowest Channel / QPSK

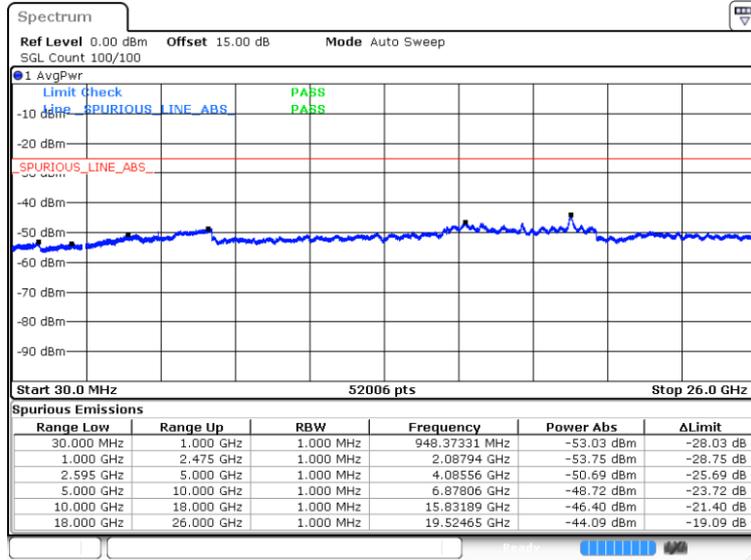
Middle Channel / QPSK



Date: 30 APR 2025 19:22:00

Date: 30 APR 2025 19:23:14

Highest Channel / QPSK



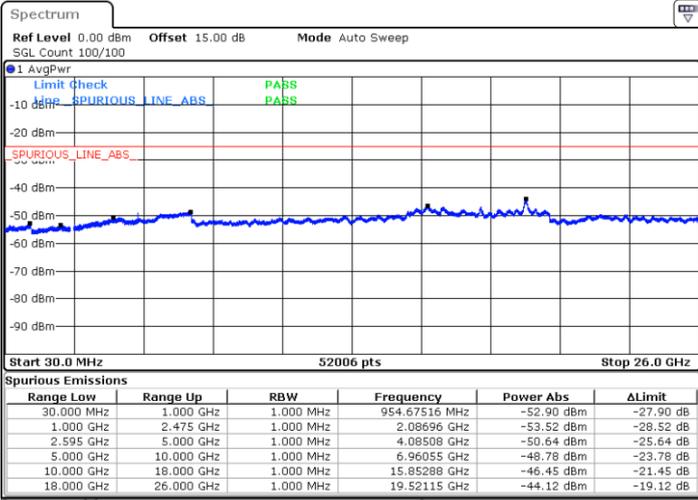
Date: 30 APR 2025 19:29:47



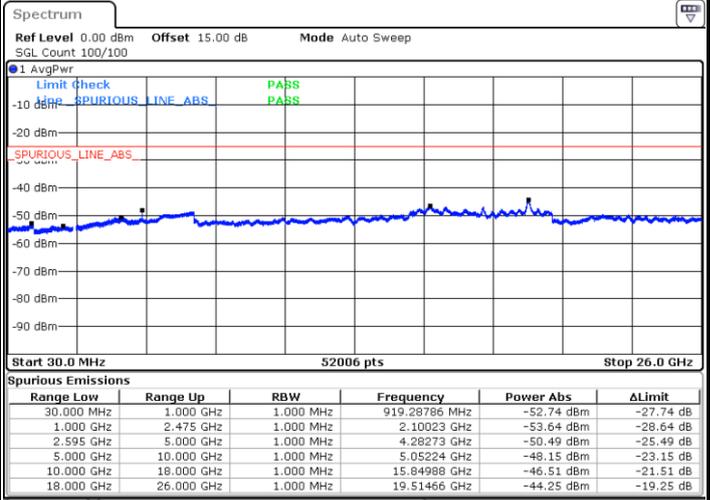
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

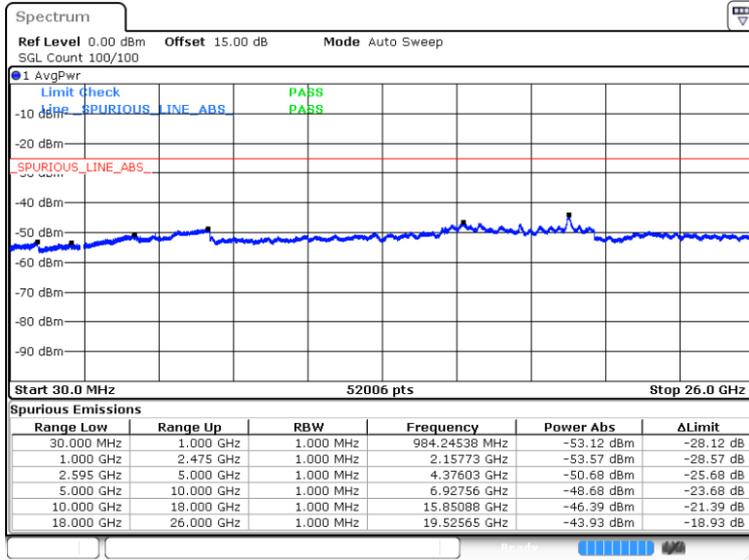


Date: 30 APR 2025 19:35:46



Date: 30 APR 2025 19:37:00

Highest Channel / QPSK



Date: 30 APR 2025 19:44:53



### Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

**Note:**

1. Normal Voltage = 3.93 V. ; Battery End Point = 3.7 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

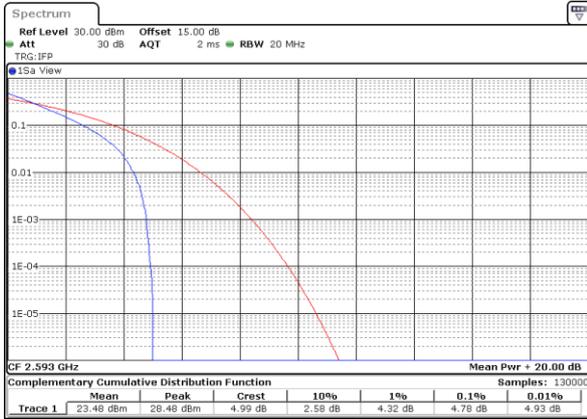
### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.78	5.62	6.26	<b>PASS</b>



LTE Band 41 / 20MHz / QPSK

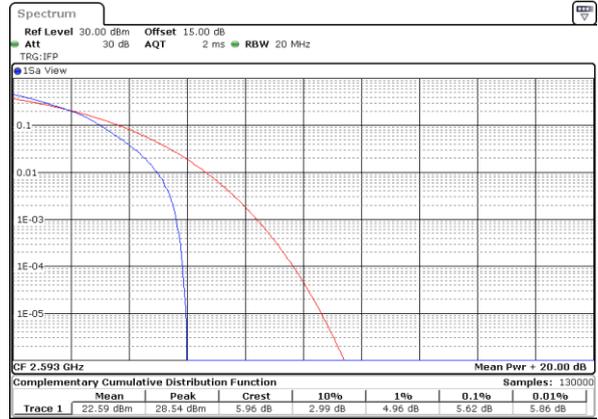
Middle Channel / Full RB



Date: 7.MAY.2025 11:31:05

LTE Band 41 / 20MHz / 16QAM

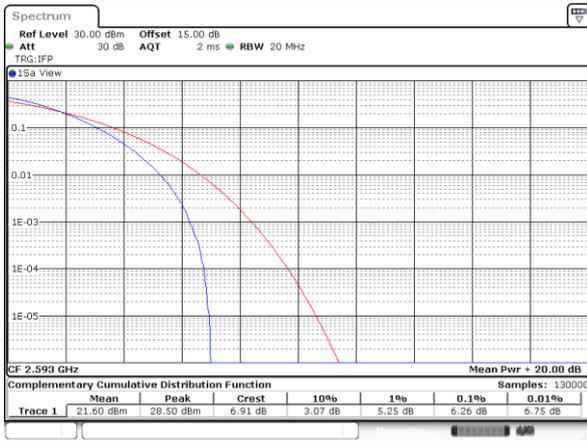
Middle Channel / Full RB



Date: 7.MAY.2025 11:31:46

LTE Band 41 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 7.MAY.2025 11:32:22



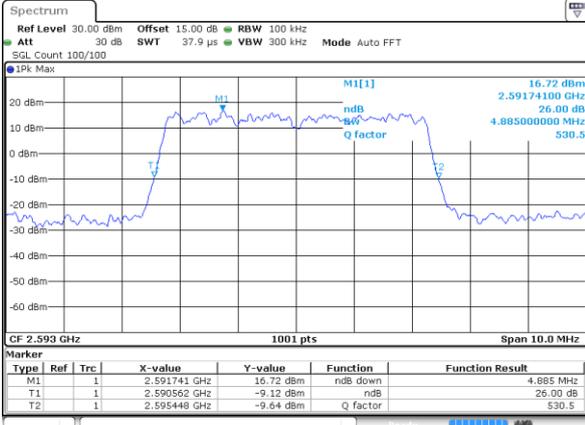
**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.89	4.94	9.79	9.65	14.30	14.24	18.70	18.74



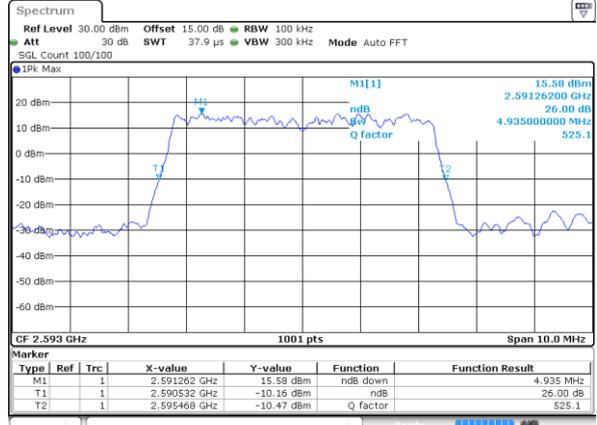
LTE Band 41

Middle Channel / 5MHz / QPSK



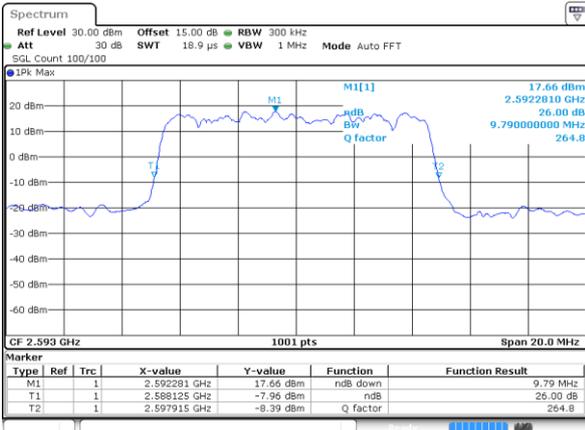
Date: 30 APR 2025 20:14:12

Middle Channel / 5MHz / 16QAM



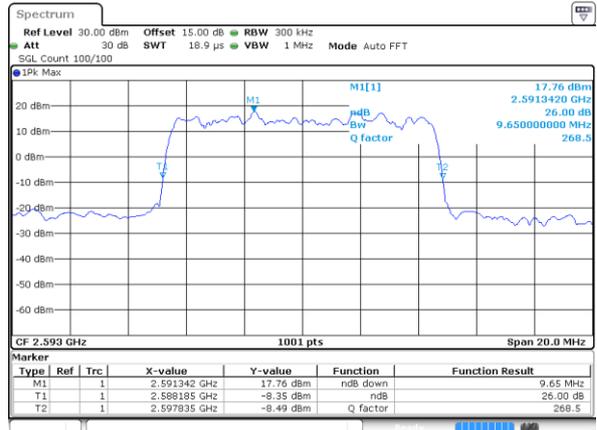
Date: 30 APR 2025 20:14:52

Middle Channel / 10MHz / QPSK



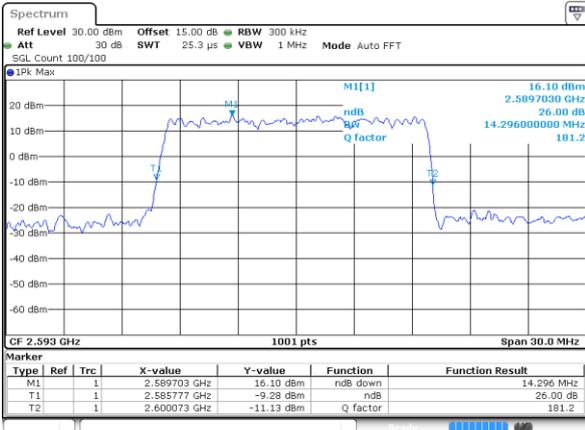
Date: 30 APR 2025 20:31:13

Middle Channel / 10MHz / 16QAM



Date: 30 APR 2025 20:31:52

Middle Channel / 15MHz / QPSK



Date: 30 APR 2025 20:48:10

Middle Channel / 15MHz / 16QAM

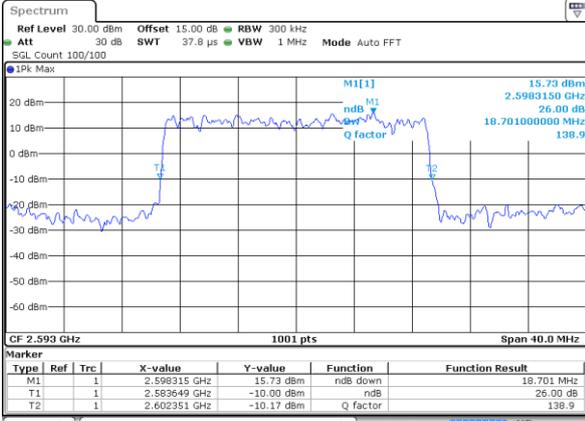


Date: 6 MAY 2025 17:50:55



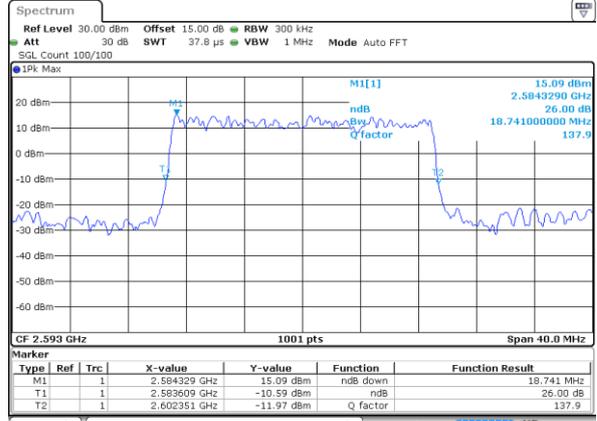
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 30 APR 2025 21:04:18

Middle Channel / 20MHz / 16QAM



Date: 30 APR 2025 21:04:58



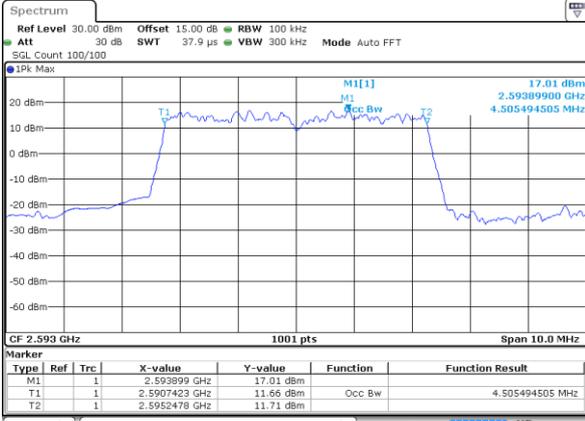
### Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.51	4.49	8.99	9.03	13.43	13.37	17.78	17.86



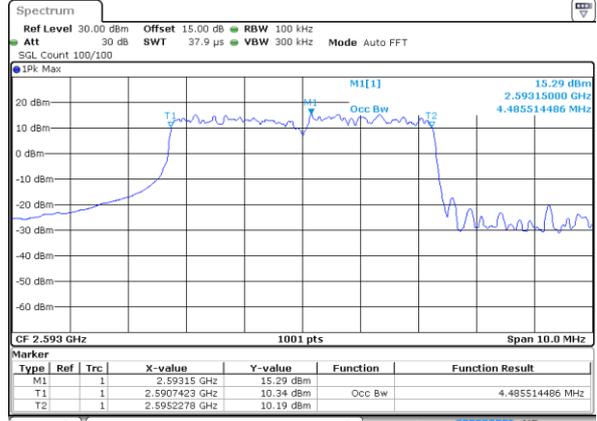
LTE Band 41

Middle Channel / 5MHz / QPSK



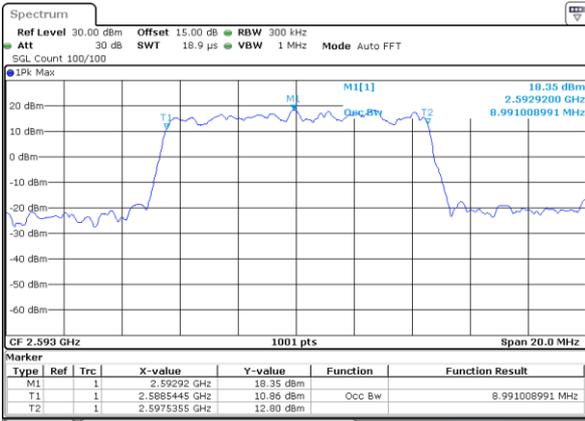
Date: 30 APR 2025 20:13:59

Middle Channel / 5MHz / 16QAM



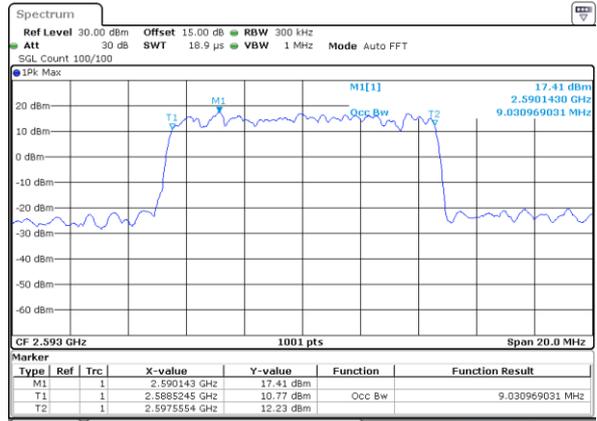
Date: 30 APR 2025 20:14:38

Middle Channel / 10MHz / QPSK



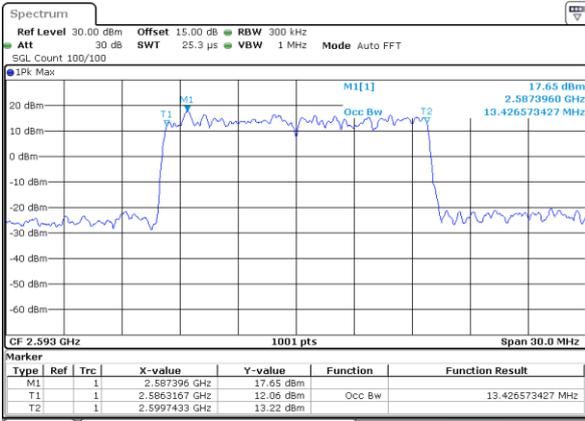
Date: 30 APR 2025 20:30:59

Middle Channel / 10MHz / 16QAM



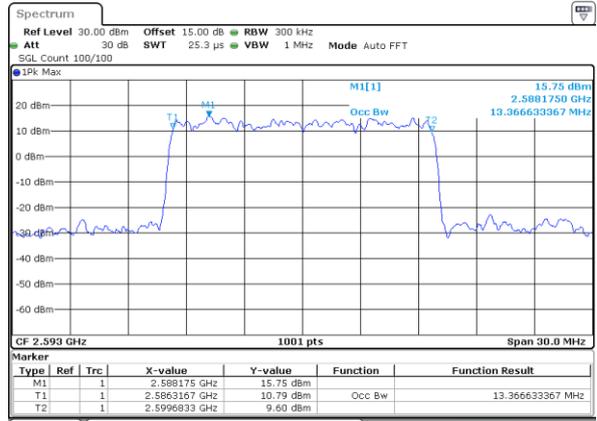
Date: 30 APR 2025 20:31:38

Middle Channel / 15MHz / QPSK



Date: 30 APR 2025 20:47:56

Middle Channel / 15MHz / 16QAM

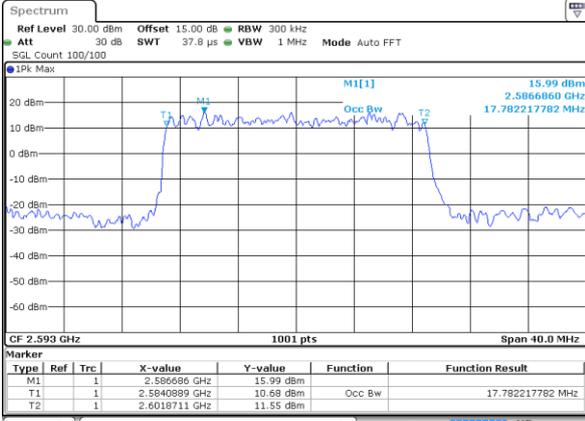


Date: 30 APR 2025 20:48:35



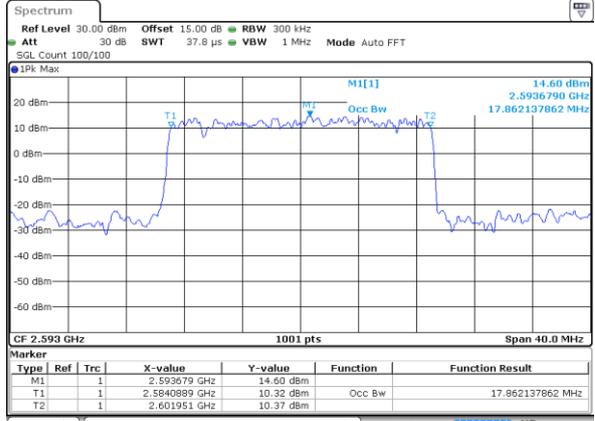
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 30 APR 2025 21:04:04

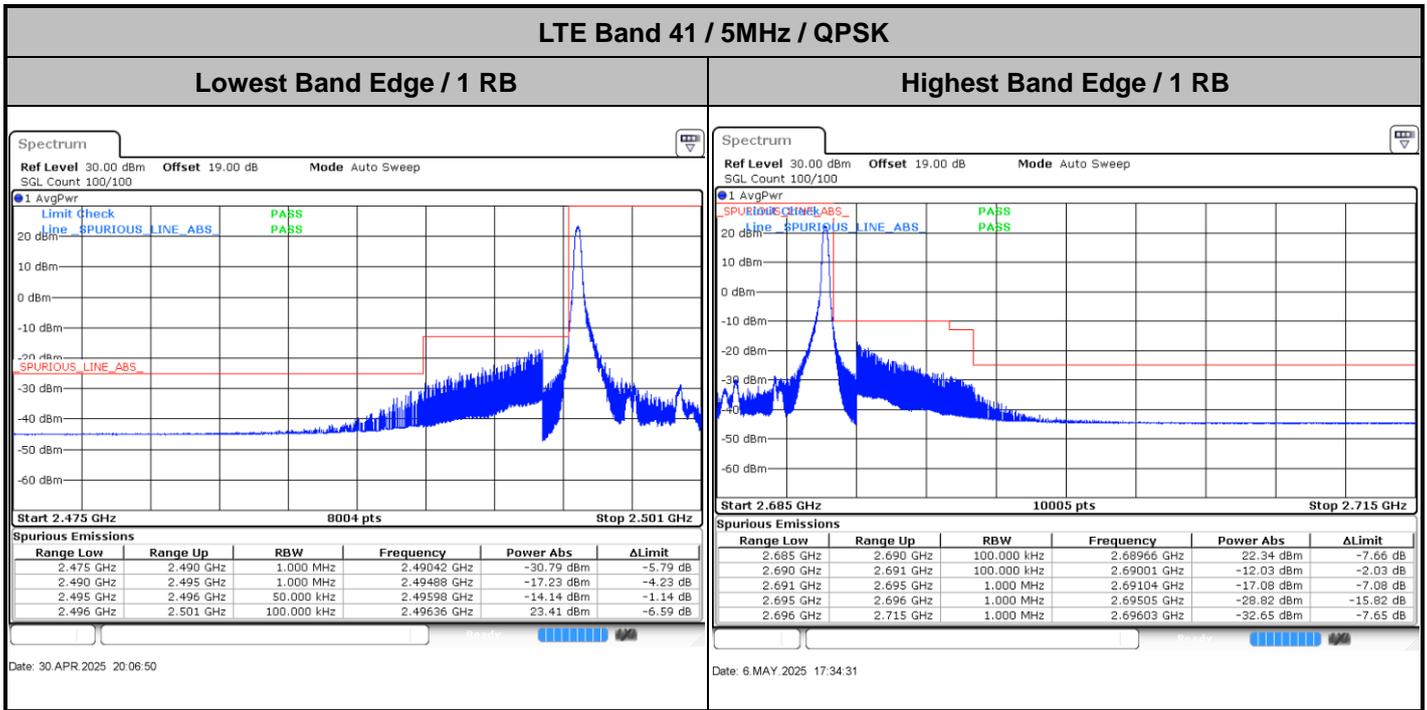
Middle Channel / 20MHz / 16QAM

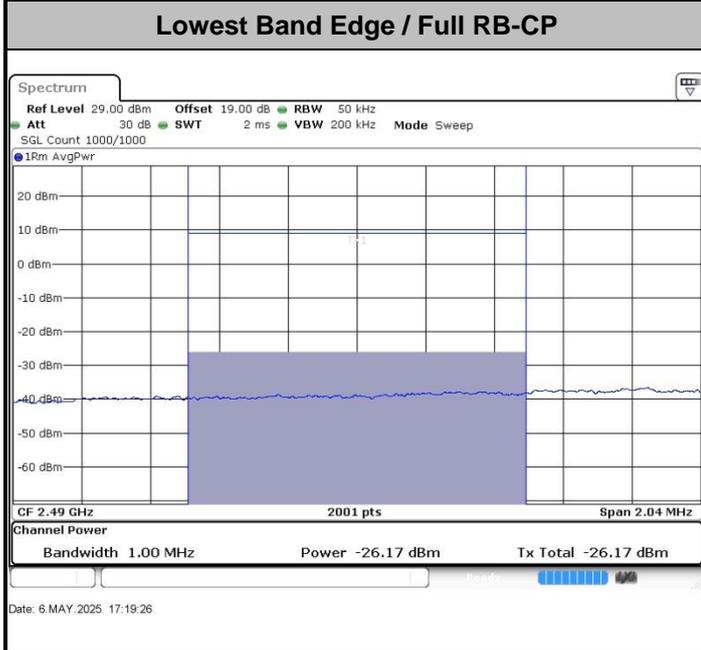
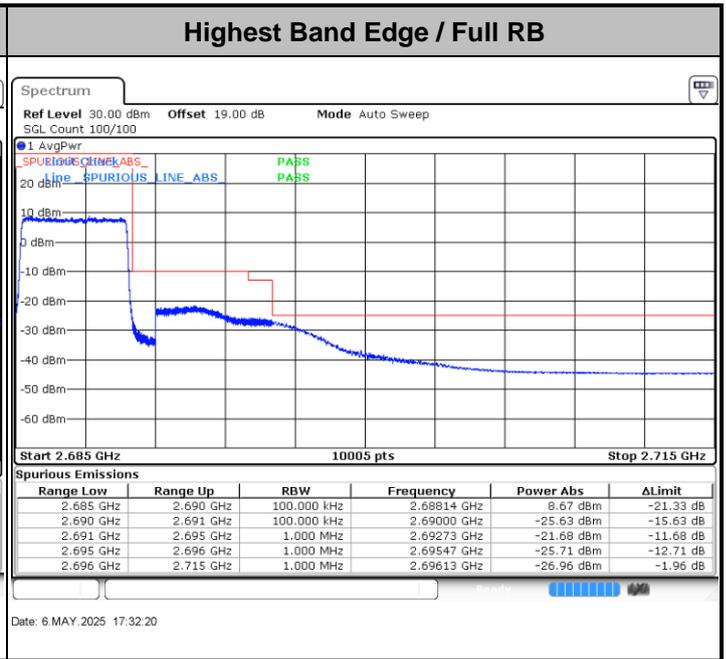
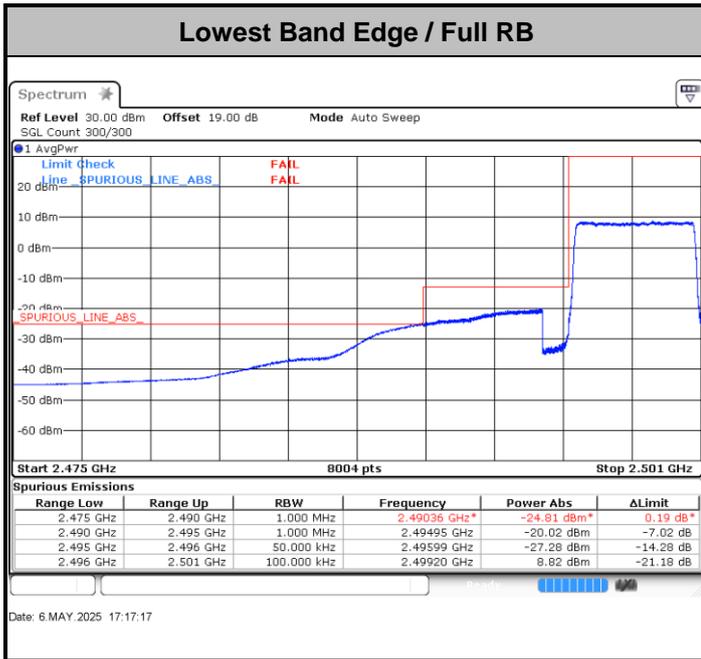


Date: 30 APR 2025 21:04:44



# Conducted Band Edge

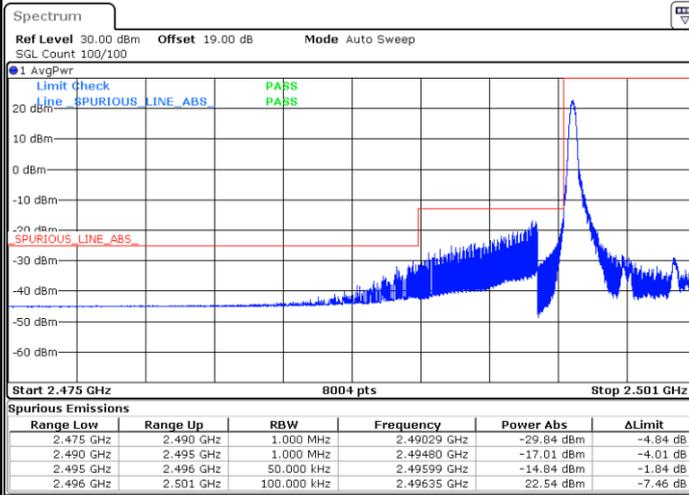






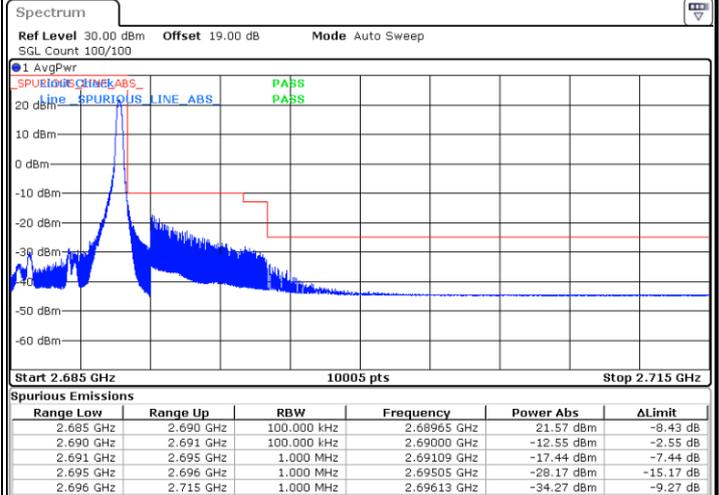
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



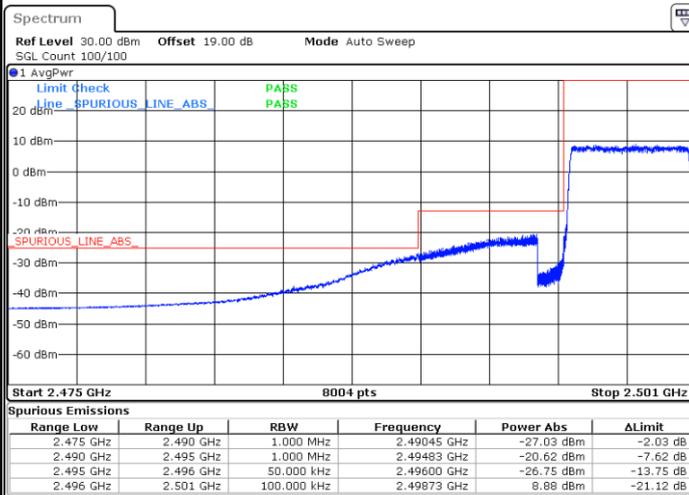
Date: 30 APR 2025 20:07:40

Highest Band Edge / 1 RB



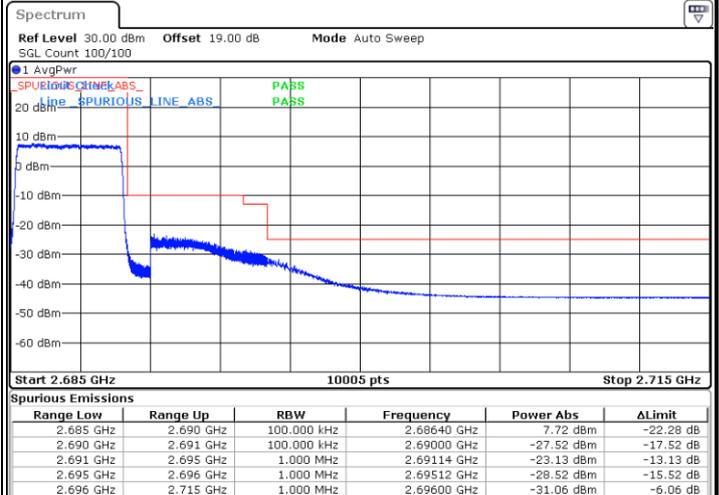
Date: 6 MAY 2025 17:35:34

Lowest Band Edge / Full RB



Date: 30 APR 2025 20:10:13

Highest Band Edge / Full RB



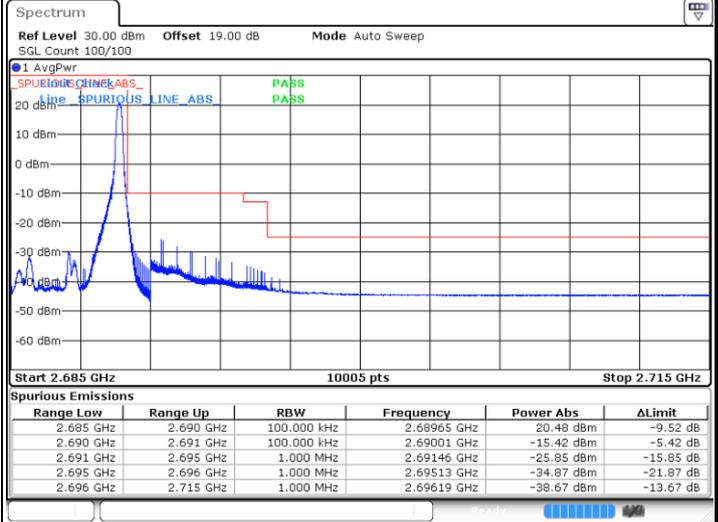
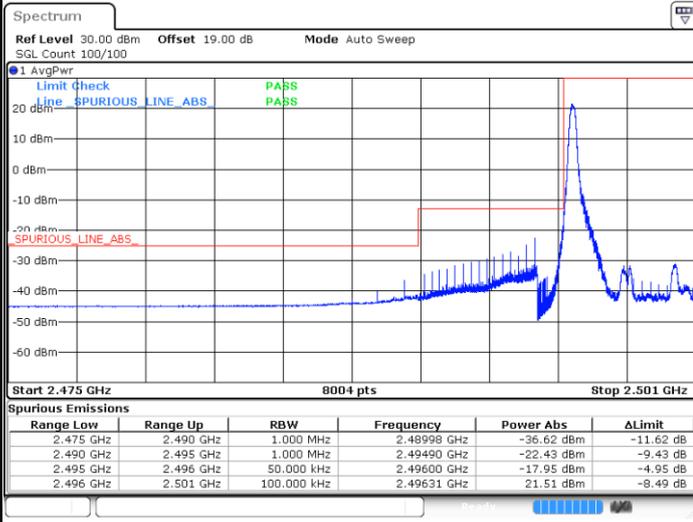
Date: 6 MAY 2025 17:31:17



LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

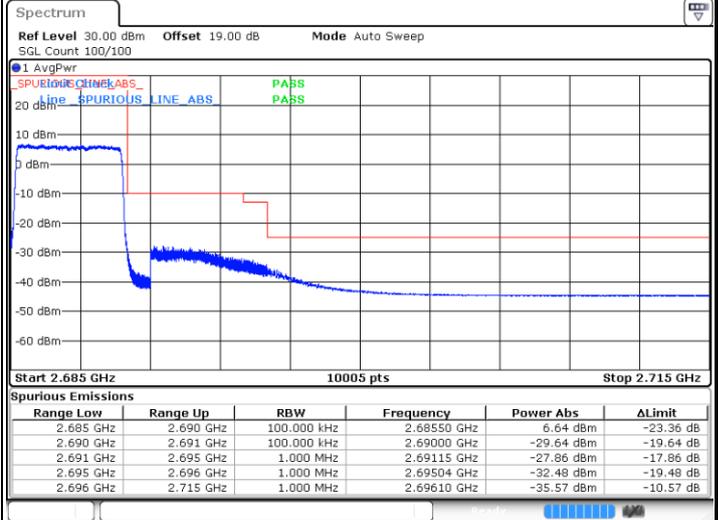
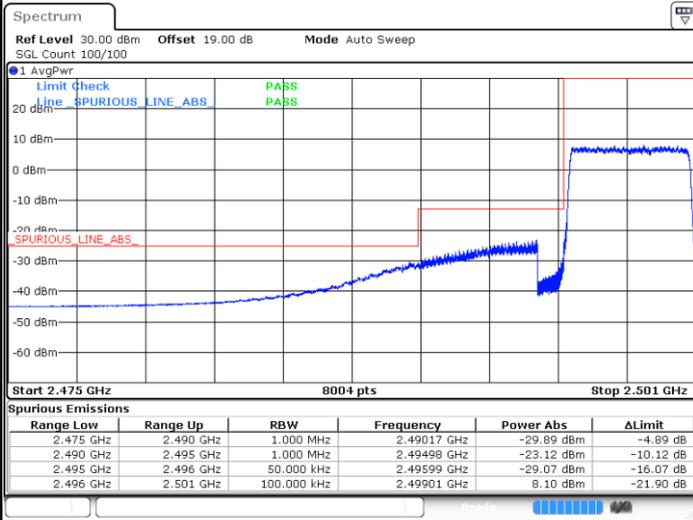


Date: 30 APR 2025 20:08:31

Date: 6 MAY 2025 17:36:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



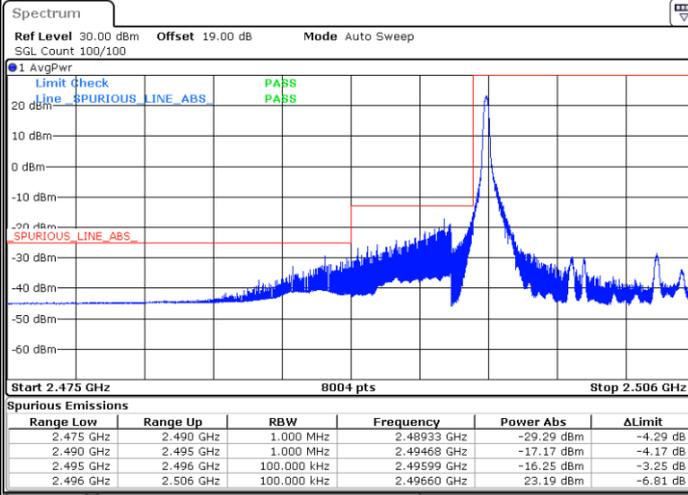
Date: 30 APR 2025 20:09:22

Date: 6 MAY 2025 17:30:14



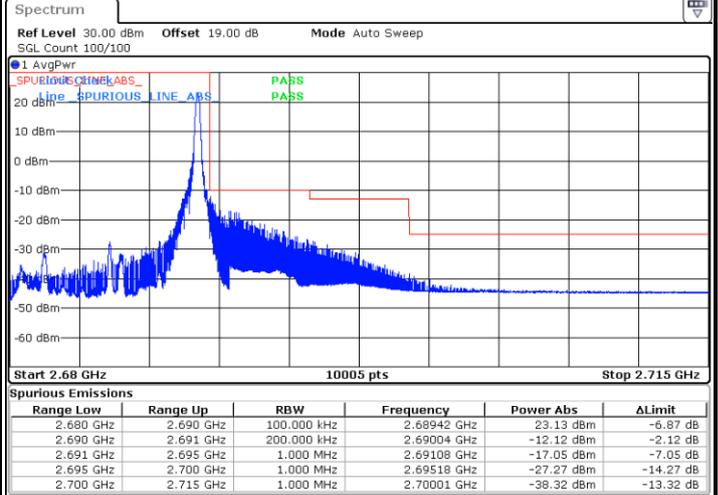
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



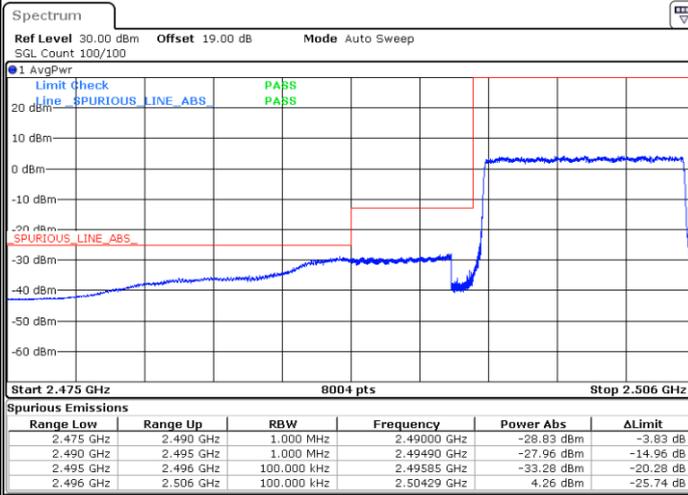
Date: 30 APR 2025 20:23:52

Highest Band Edge / 1 RB



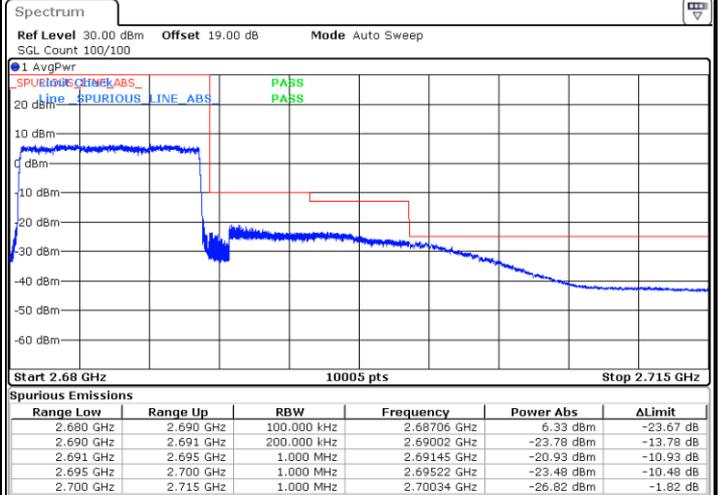
Date: 6 MAY 2025 17:49:38

Lowest Band Edge / Full RB



Date: 8 MAY 2025 15:17:17

Highest Band Edge / Full RB

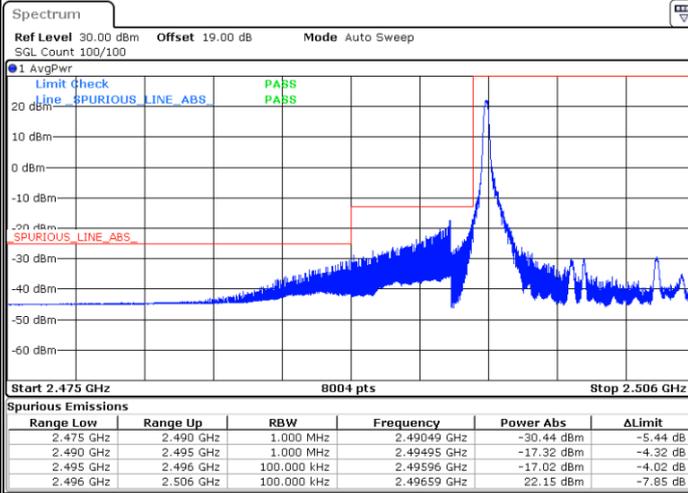


Date: 30 APR 2025 20:36:53



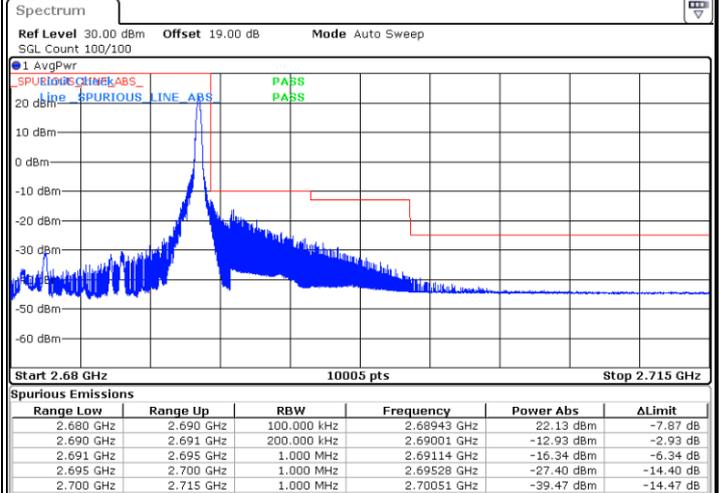
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



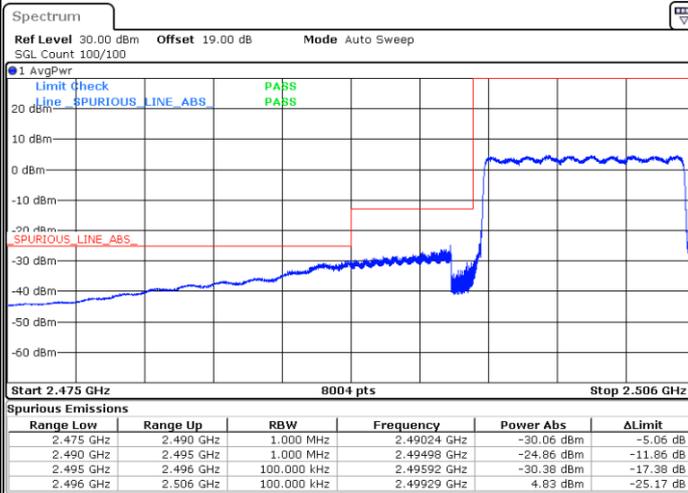
Date: 30 APR 2025 20:24:43

Highest Band Edge / 1 RB



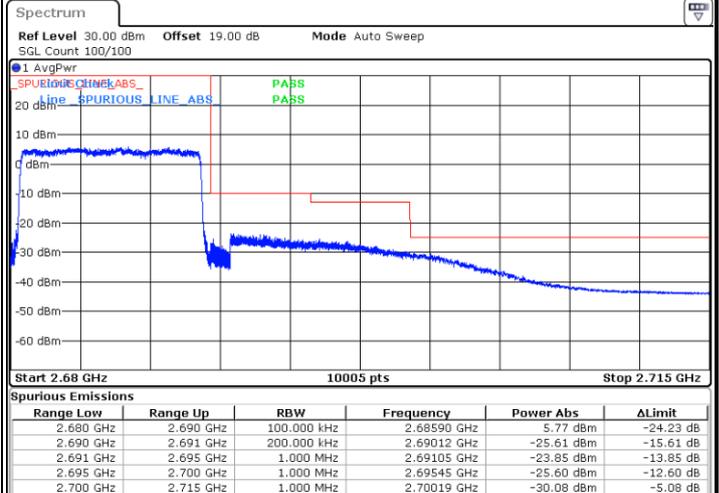
Date: 30 APR 2025 20:33:32

Lowest Band Edge / Full RB



Date: 9 MAY 2025 17:31:16

Highest Band Edge / Full RB

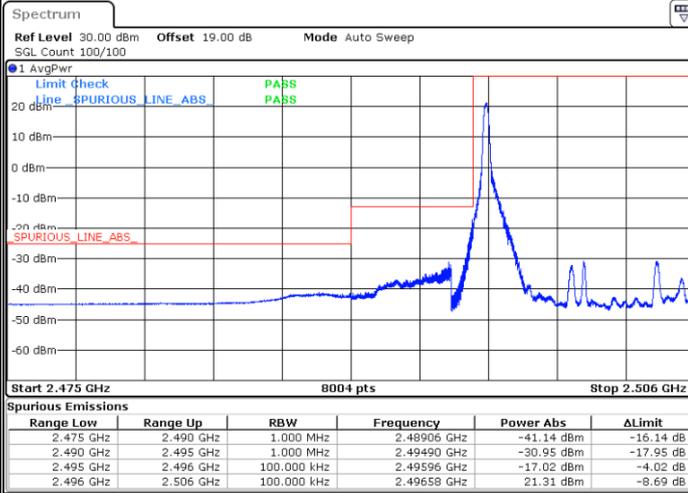


Date: 30 APR 2025 20:36:03



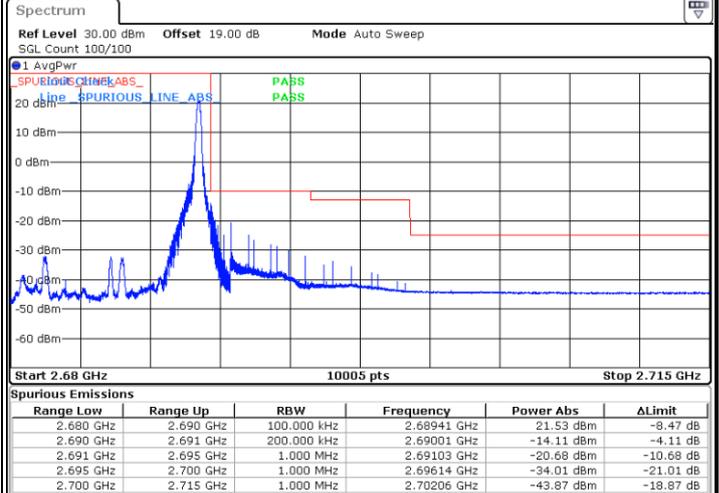
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



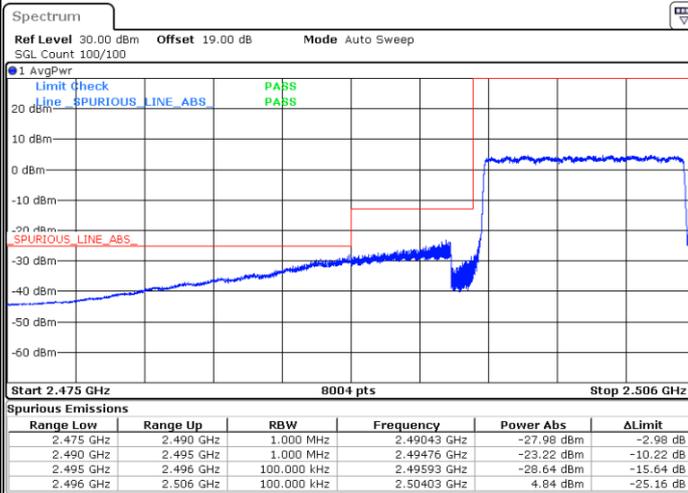
Date: 30 APR 2025 20:25:33

Highest Band Edge / 1 RB



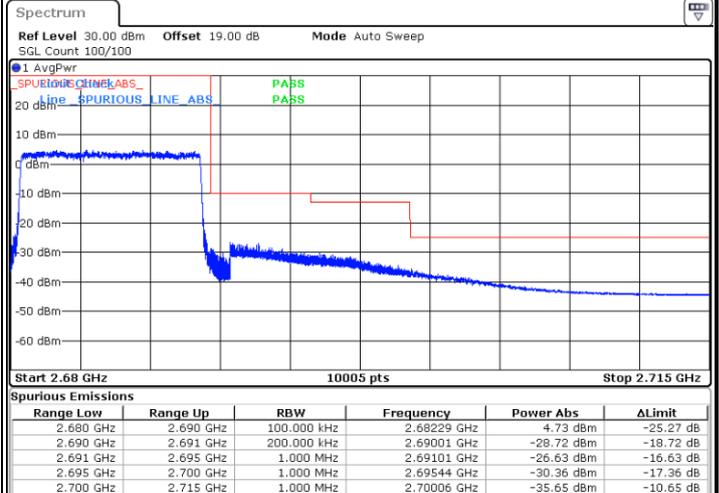
Date: 30 APR 2025 20:34:22

Lowest Band Edge / Full RB



Date: 30 APR 2025 20:26:24

Highest Band Edge / Full RB

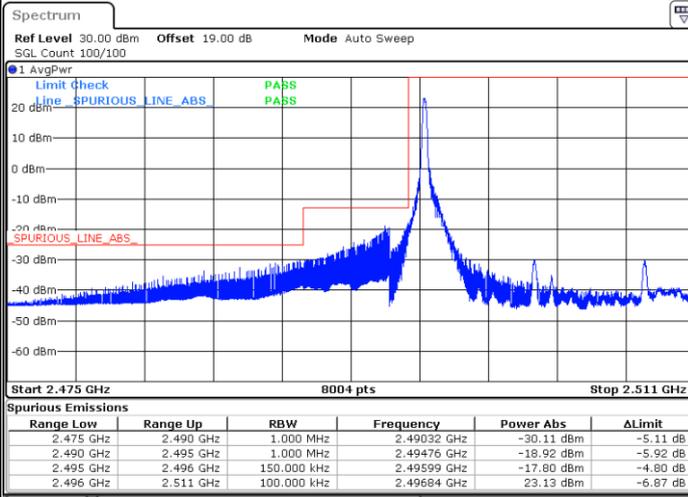


Date: 30 APR 2025 20:35:13



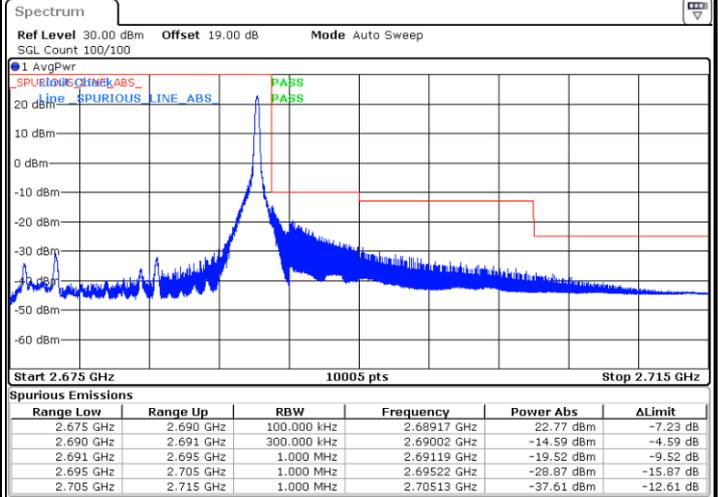
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



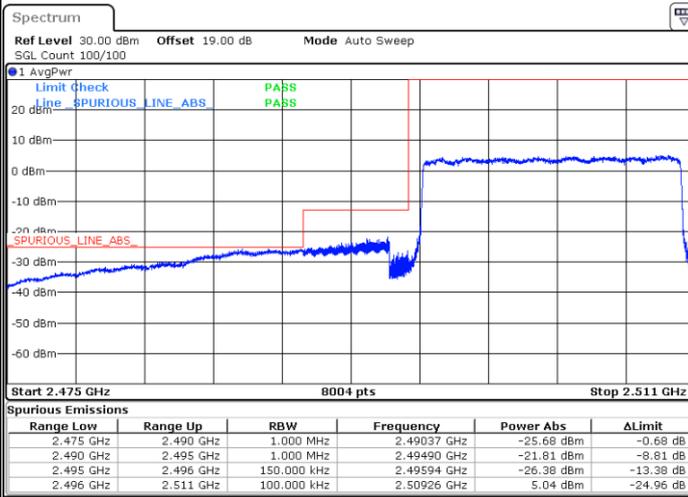
Date: 30 APR 2025 20:40:48

Highest Band Edge / 1 RB



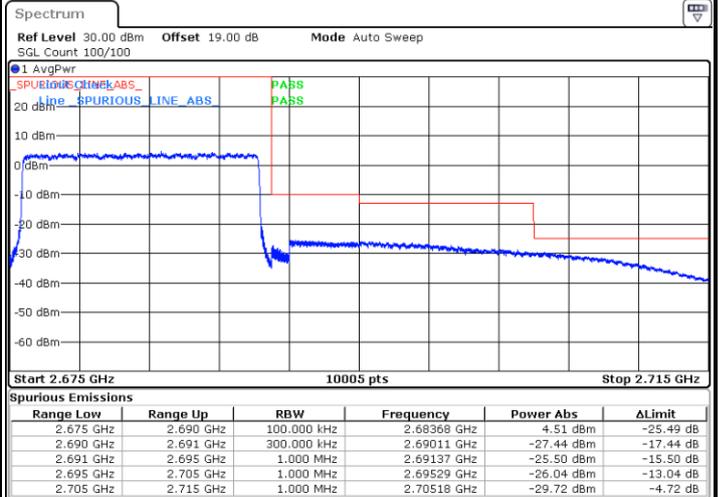
Date: 30 APR 2025 20:49:41

Lowest Band Edge / Full RB



Date: 30 APR 2025 20:45:01

Highest Band Edge / Full RB

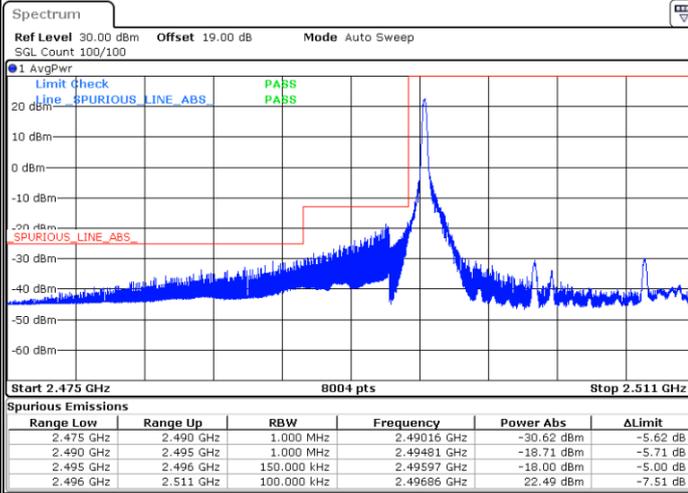


Date: 30 APR 2025 20:54:07



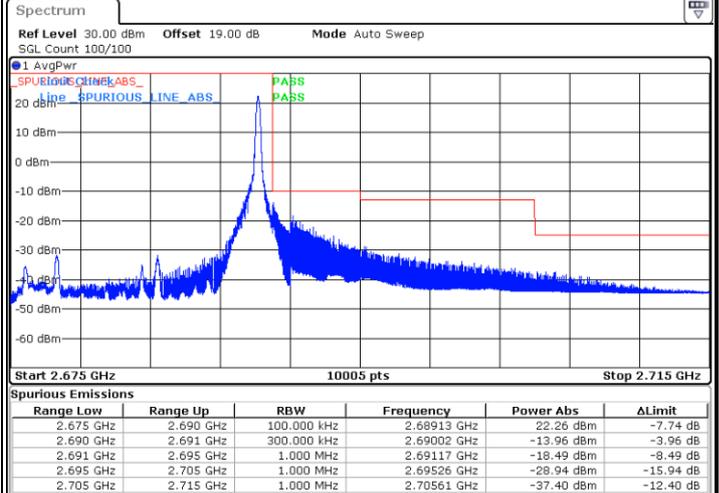
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1RB



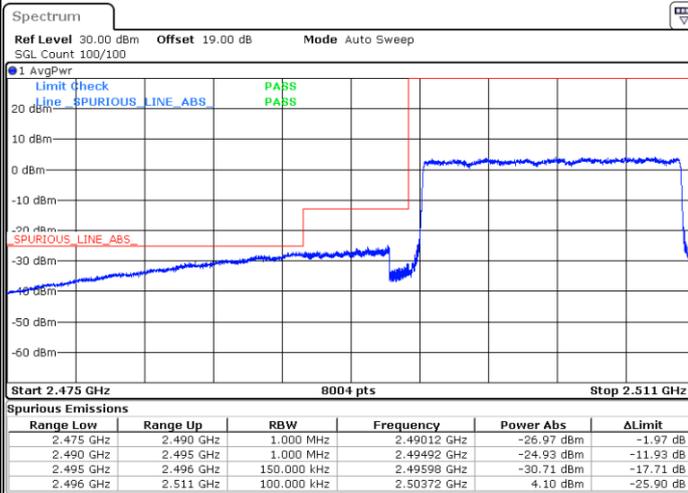
Date: 30 APR 2025 20:41:39

Highest Band Edge / 1 RB



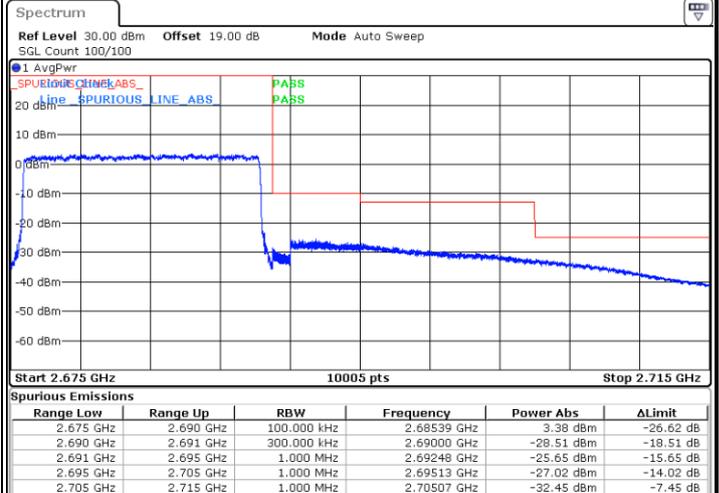
Date: 30 APR 2025 20:50:34

Lowest Band Edge / Full RB



Date: 30 APR 2025 20:44:10

Highest Band Edge / Full RB

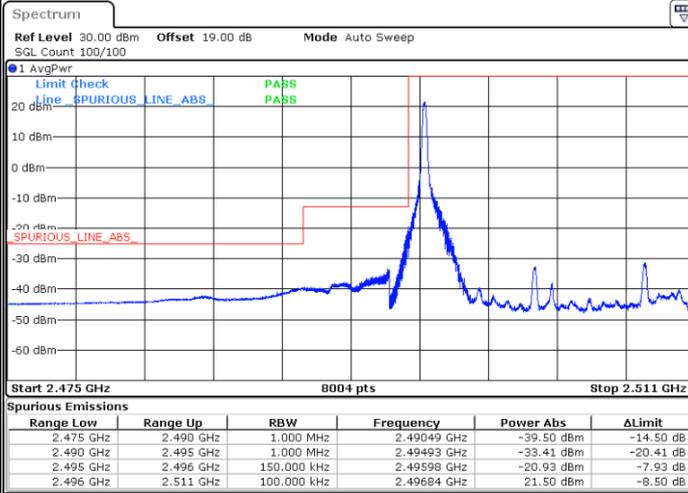


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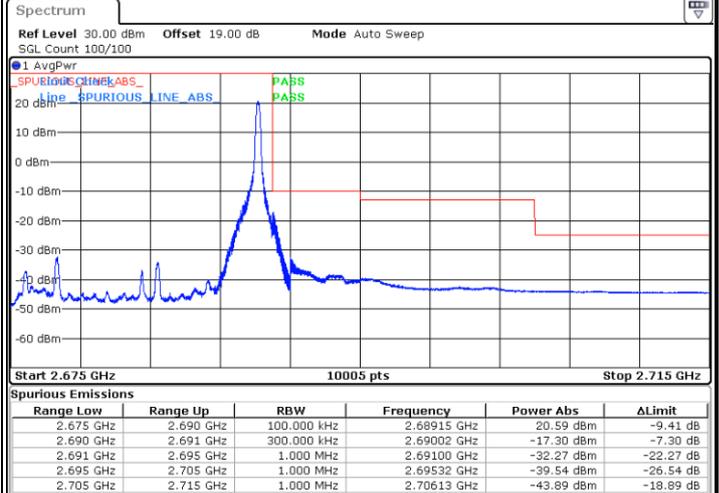
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1RB



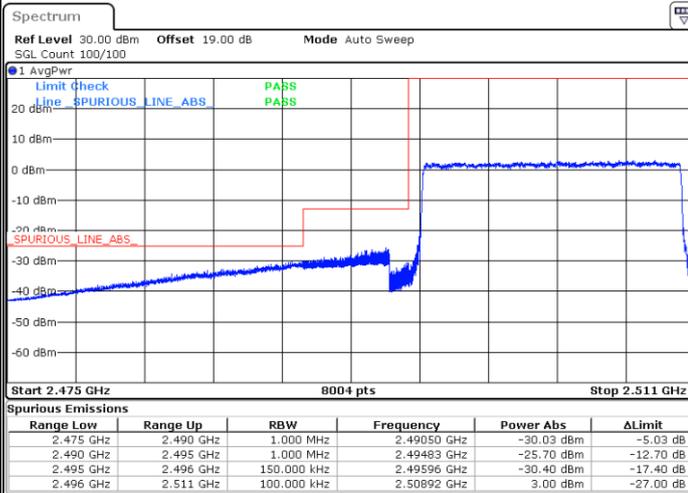
Date: 30 APR 2025 20:42:29

Highest Band Edge / 1 RB



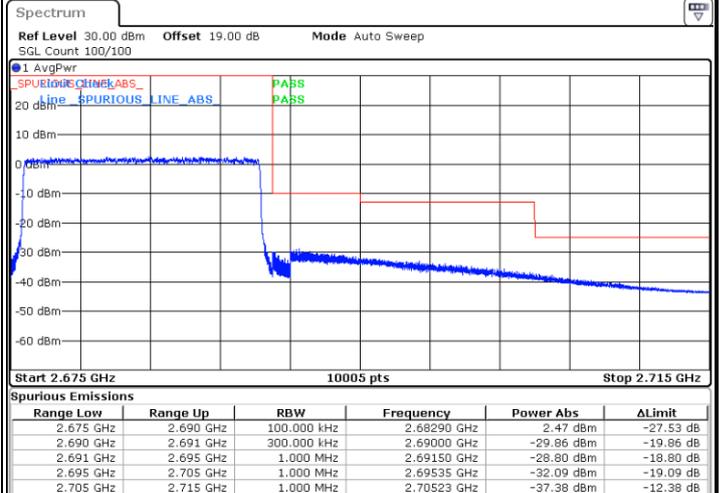
Date: 30 APR 2025 20:51:27

Lowest Band Edge / Full RB



Date: 30 APR 2025 20:43:20

Highest Band Edge / Full RB

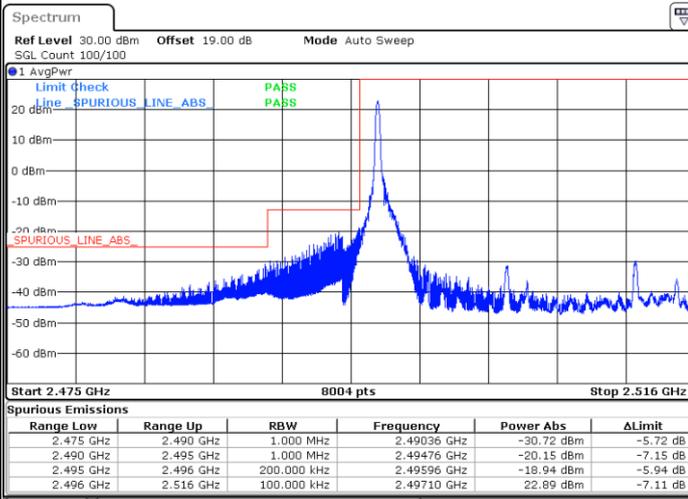


Date: 30 APR 2025 20:52:21



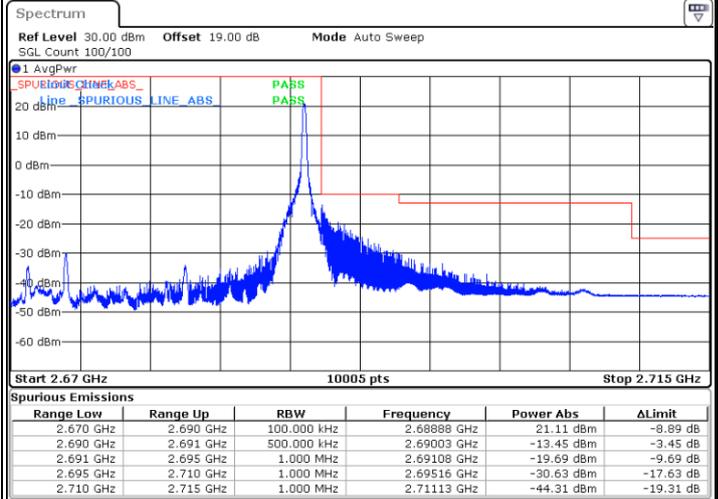
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



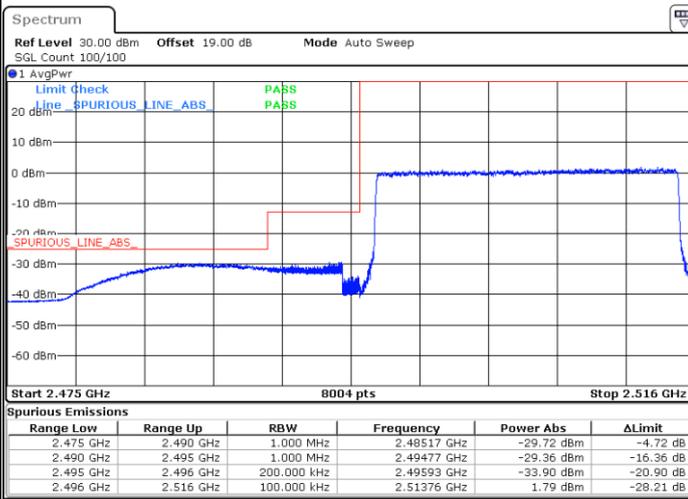
Date: 30 APR 2025 20:56:57

Highest Band Edge / 1 RB



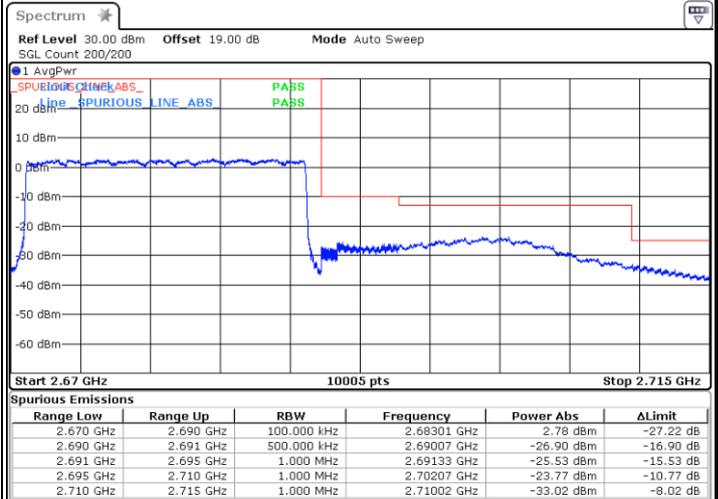
Date: 30 APR 2025 21:07:09

Lowest Band Edge / Full RB



Date: 8.MAY.2025 15:20:16

Highest Band Edge / Full RB

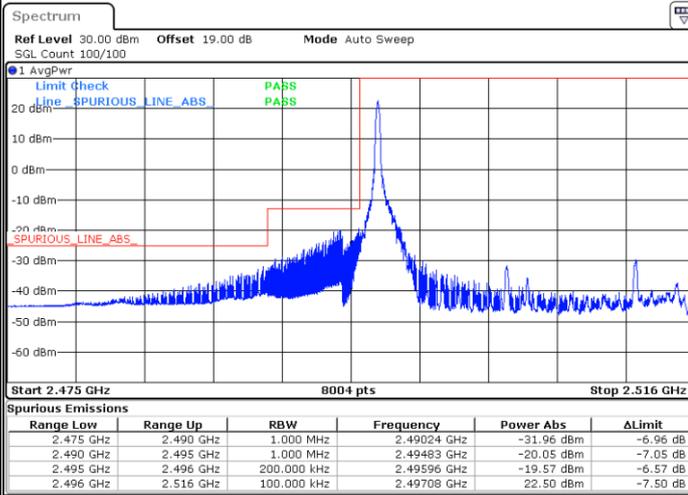


Date: 8.MAY.2025 17:59:01



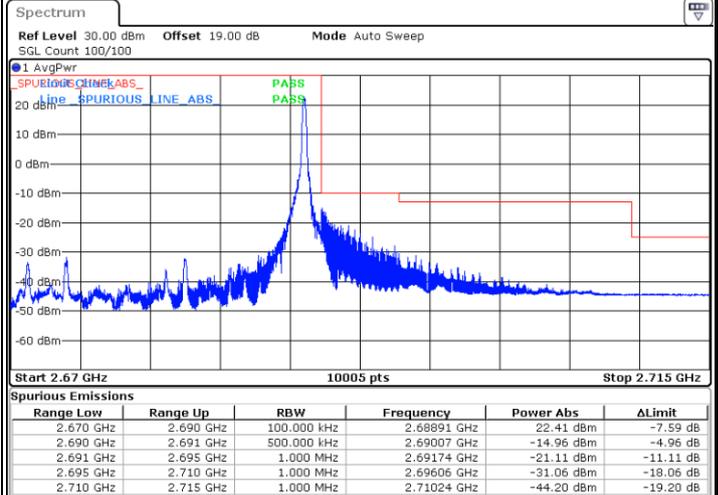
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1RB



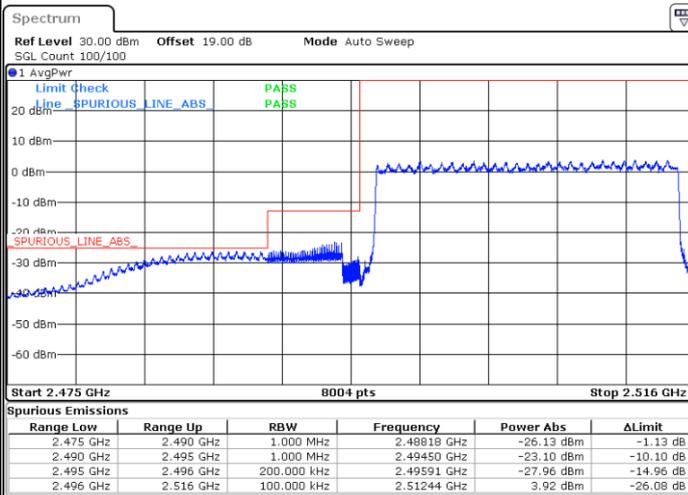
Date: 30 APR 2025 20:57:47

Highest Band Edge / 1 RB



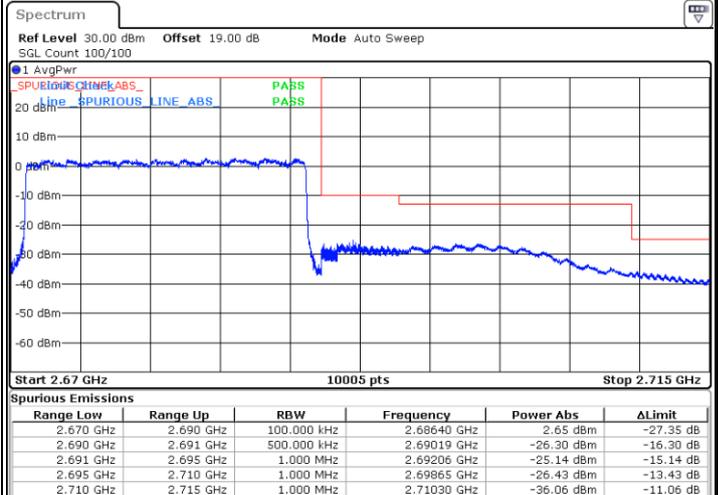
Date: 30 APR 2025 21:08:03

Lowest Band Edge / Full RB



Date: 30 APR 2025 21:00:19

Highest Band Edge / Full RB

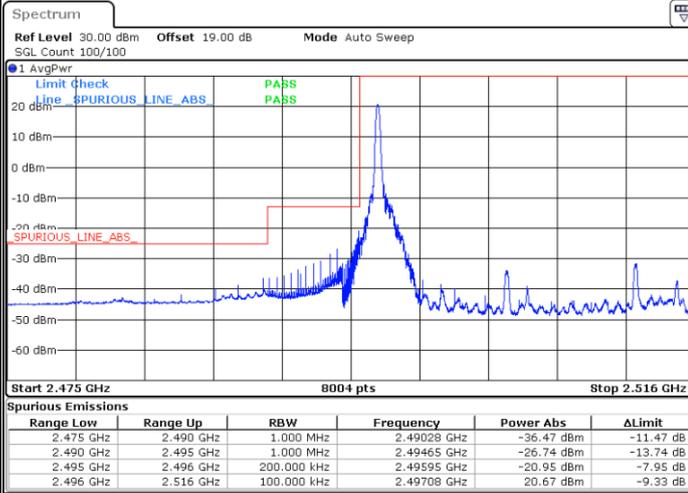


Date: 30 APR 2025 21:10:43



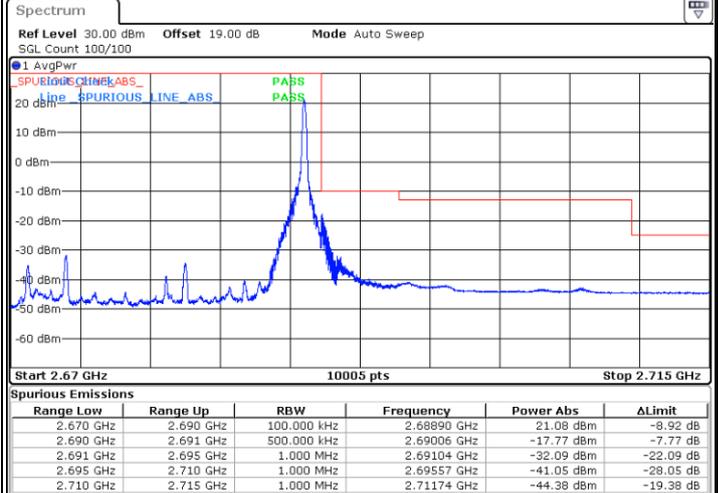
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1RB



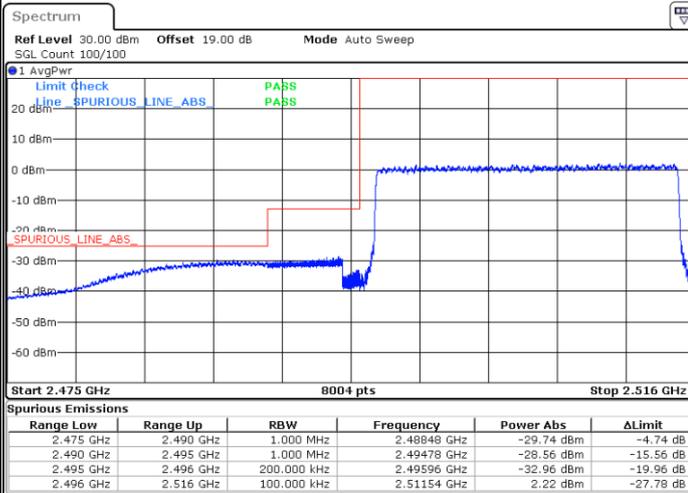
Date: 30 APR 2025 20:58:37

Highest Band Edge / 1 RB



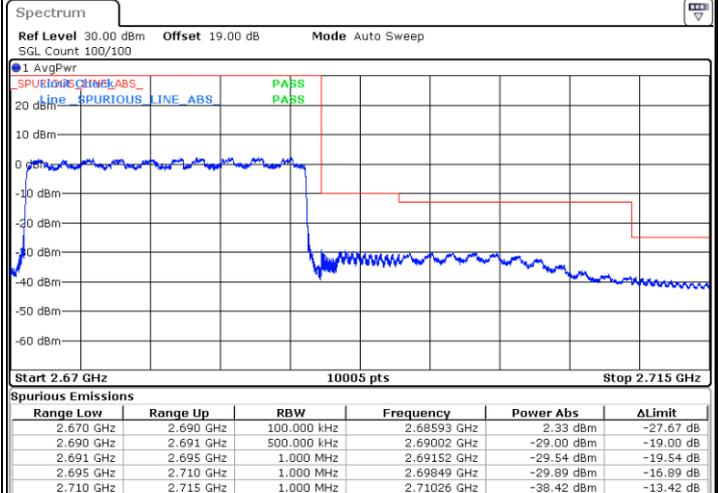
Date: 30 APR 2025 21:08:56

Lowest Band Edge / Full RB



Date: 30 APR 2025 20:59:28

Highest Band Edge / Full RB



Date: 30 APR 2025 21:09:49

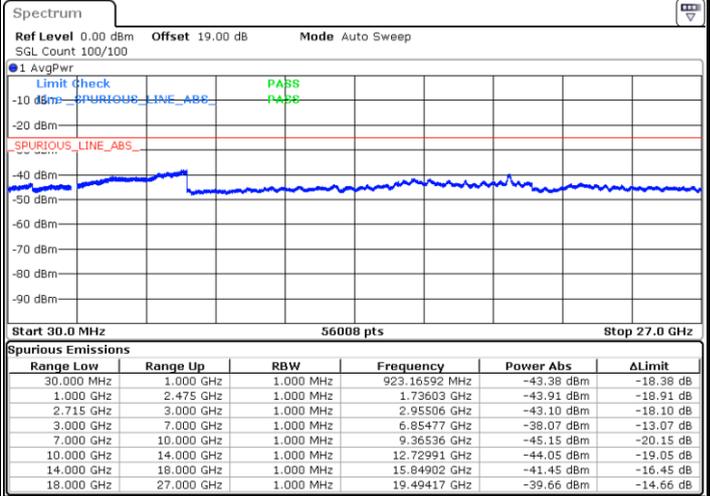
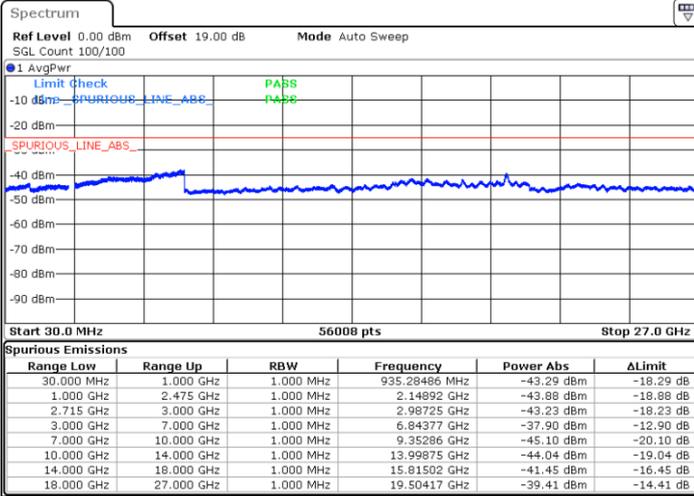


# Conducted Spurious Emission

## LTE Band 41 / 5MHz

### Lowest Channel / QPSK

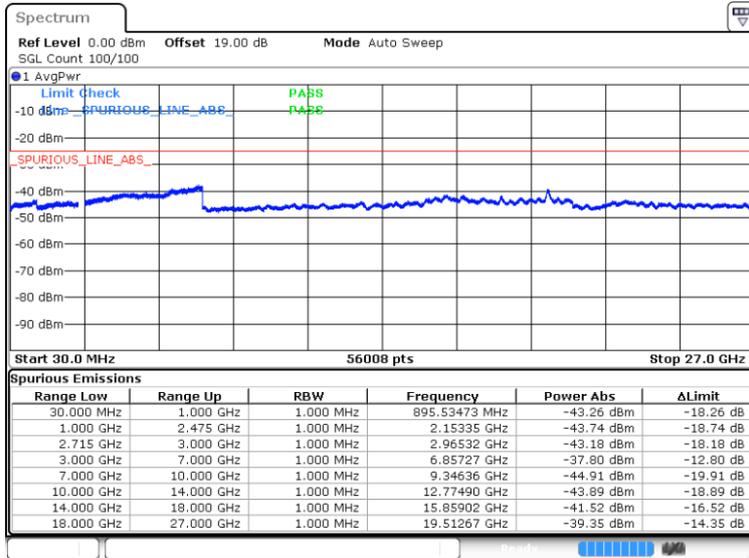
### Middle Channel / QPSK



Date: 30 APR 2025 20:12:18

Date: 30 APR 2025 20:13:32

### Highest Channel / QPSK



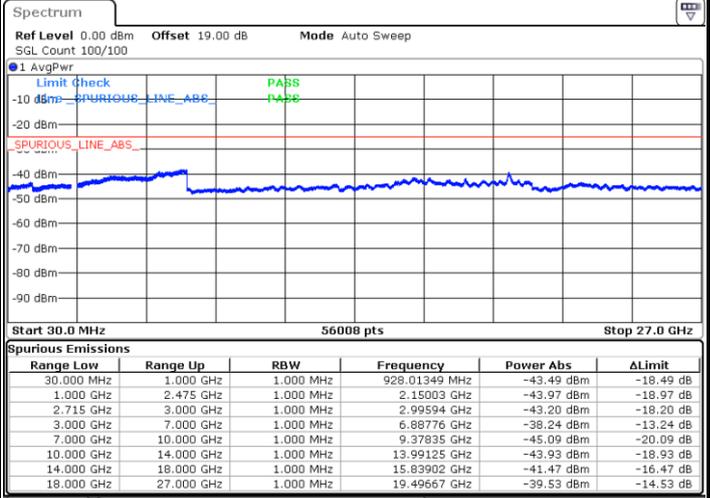
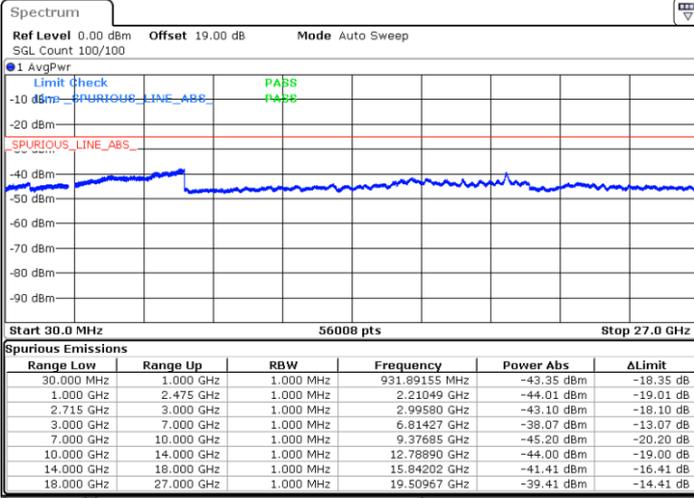
Date: 30 APR 2025 20:22:19



LTE Band 41 / 10MHz

Lowest Channel / QPSK

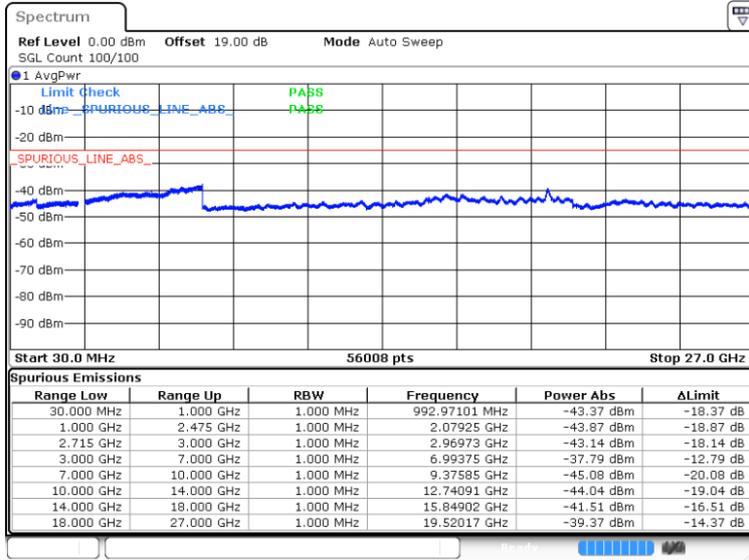
Middle Channel / QPSK



Date: 30 APR 2025 20:29:19

Date: 30 APR 2025 20:30:33

Highest Channel / QPSK



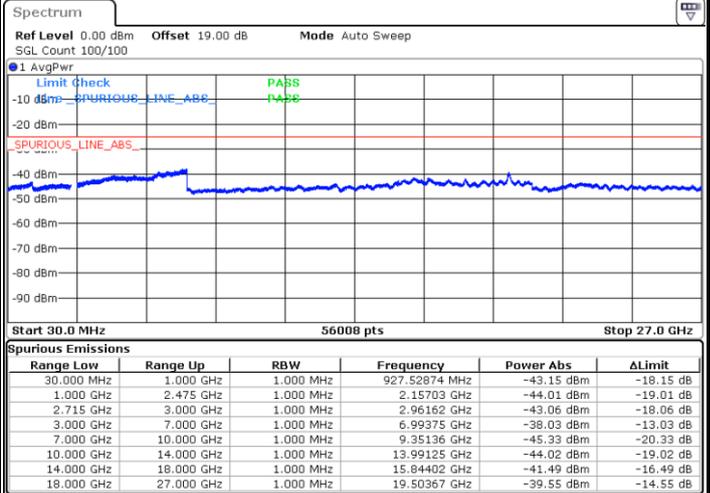
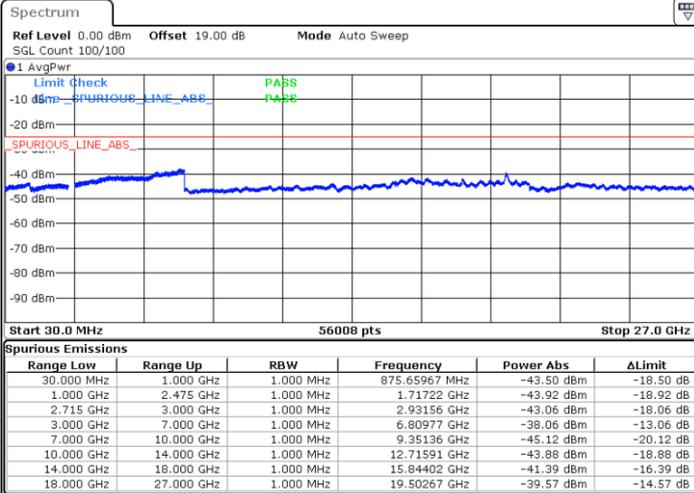
Date: 30 APR 2025 20:38:08



LTE Band 41 / 15MHz

Lowest Channel / QPSK

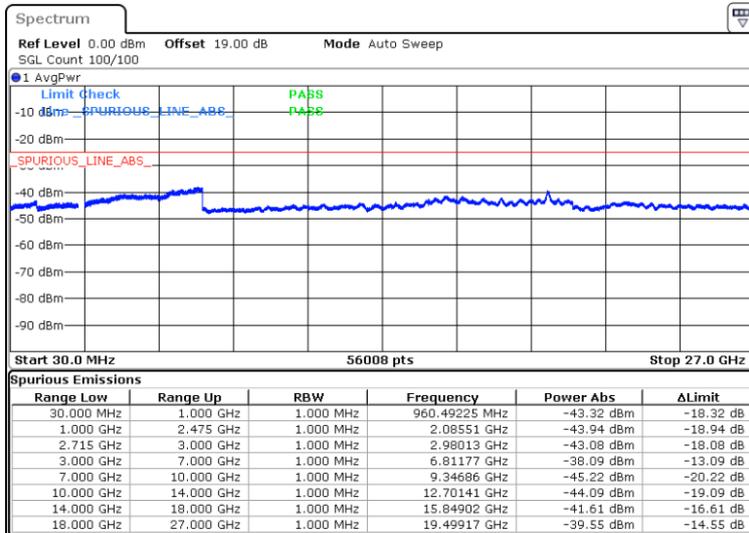
Middle Channel / QPSK



Date: 30 APR 2025 20:46:15

Date: 30 APR 2025 20:47:30

Highest Channel / QPSK



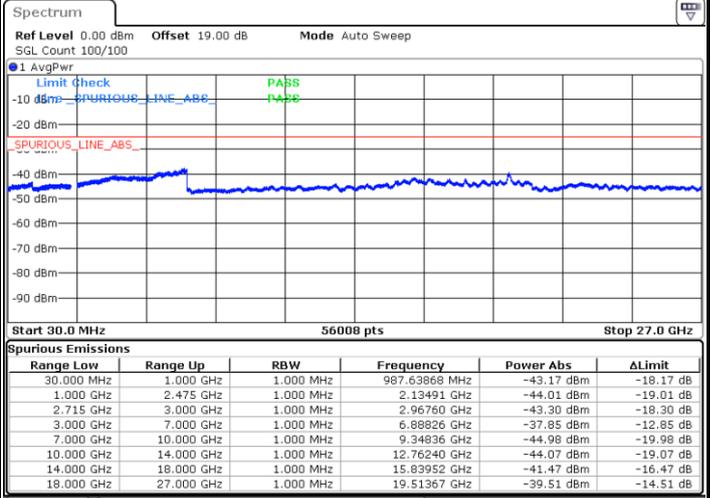
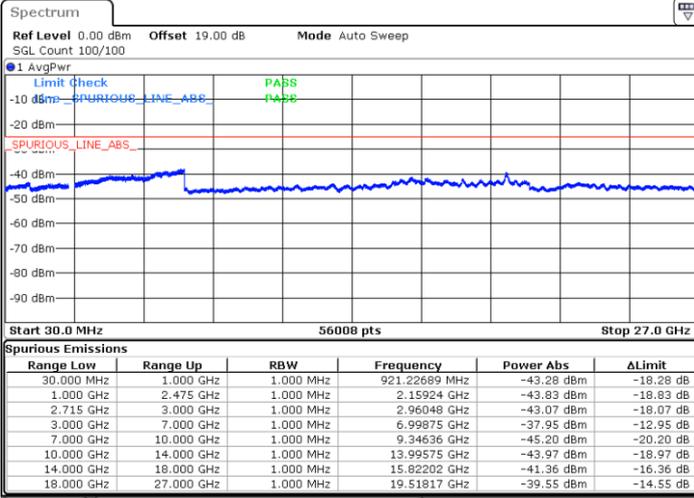
Date: 30 APR 2025 20:55:21



LTE Band 41 / 20MHz

Lowest Channel / QPSK

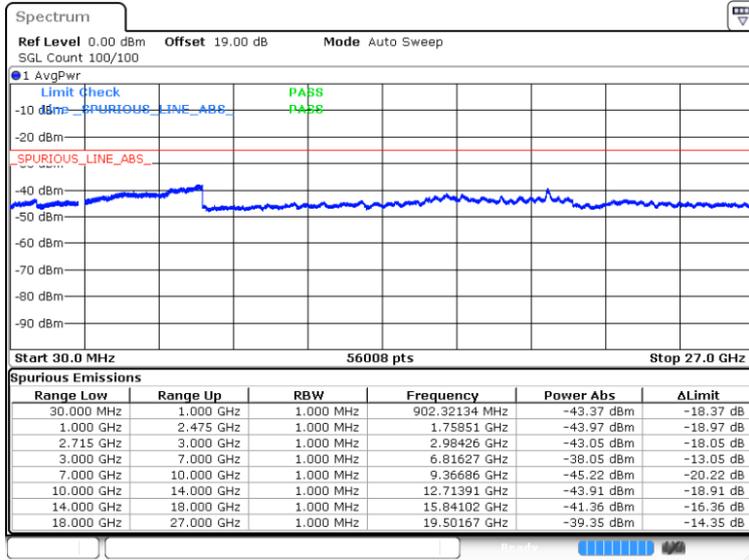
Middle Channel / QPSK



Date: 30 APR 2025 21:02:24

Date: 30 APR 2025 21:03:38

Highest Channel / QPSK



Date: 30 APR 2025 21:12:51



### 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	0.0001	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

**Note:**

1. Normal Voltage = 3.93 V. ; Battery End Point = 3.7 V. ; Maximum Voltage = 4.3 V.
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	25.52	30.75	35.11
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	35.11	39.96	

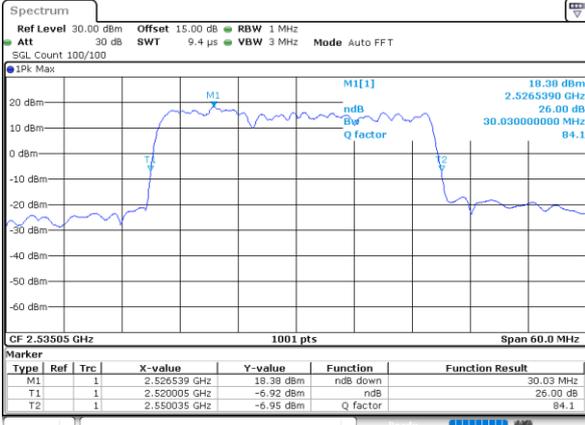
Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.03	25.33	30.63	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.04	40.04	



LTE Band 7C

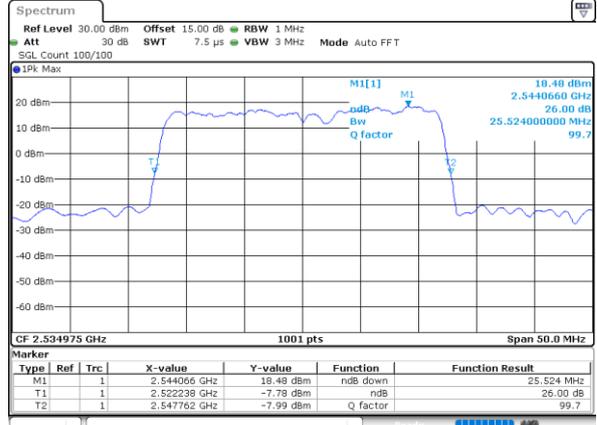
QPSK

Middle Channel / 10MHz+20MHz



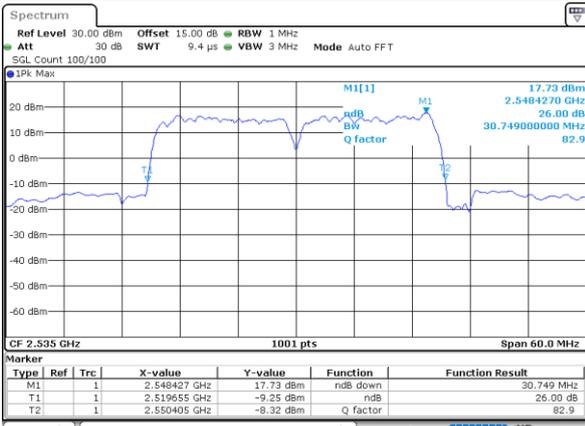
Date: 7.MAY.2025 11:57:12

Middle Channel / 15MHz+10MHz



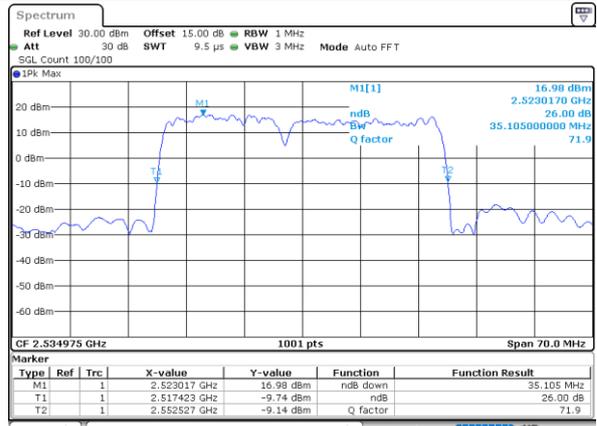
Date: 7.MAY.2025 13:29:46

Middle Channel / 15MHz+15MHz



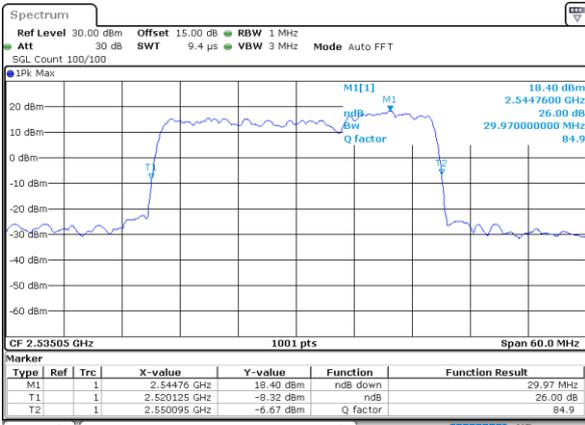
Date: 7.MAY.2025 13:17:19

Middle Channel / 15MHz+20MHz



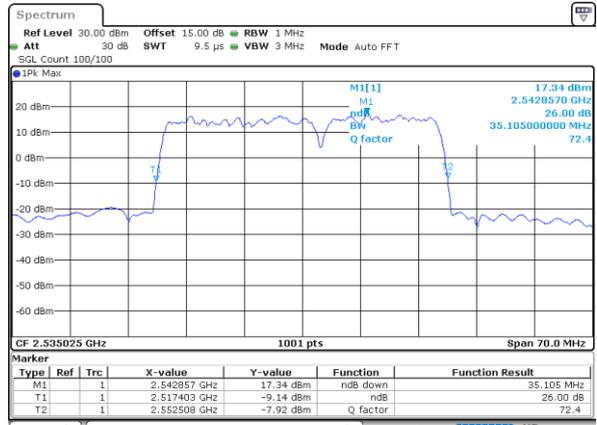
Date: 7.MAY.2025 13:19:46

Middle Channel / 20MHz+10MHz



Date: 7.MAY.2025 13:15:11

Middle Channel / 20MHz+15MHz



Date: 7.MAY.2025 13:22:04

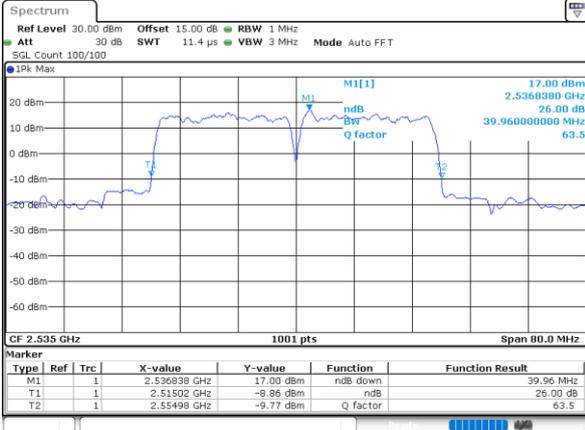


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



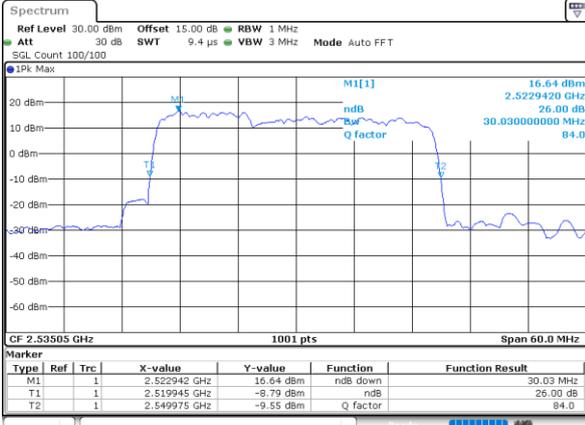
Date: 7.MAY.2025 13:24:06



LTE Band 7C

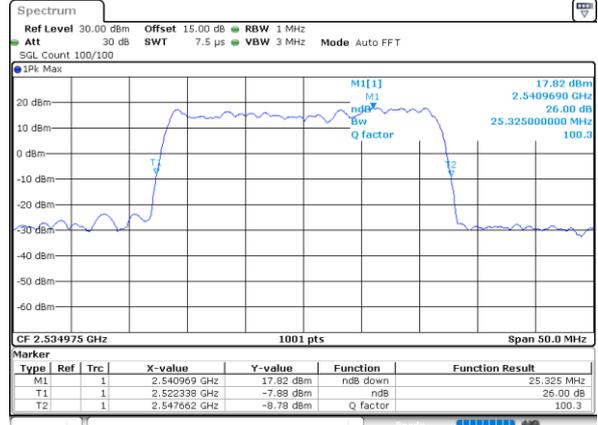
16QAM

Middle Channel / 10MHz+20MHz



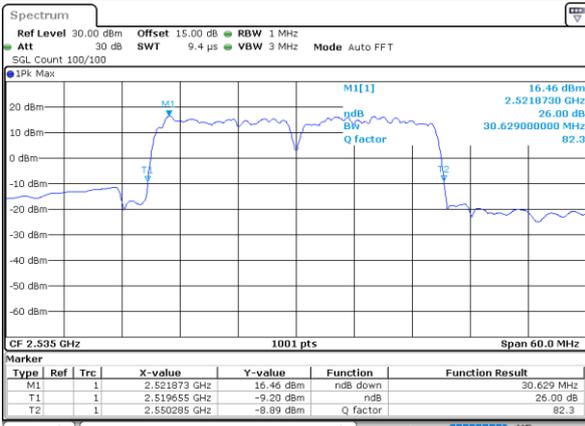
Date: 7.MAY.2025 13:13:23

Middle Channel / 15MHz+10MHz



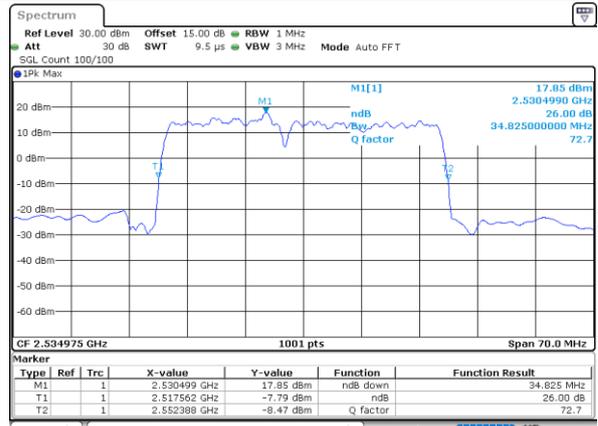
Date: 7.MAY.2025 13:30:16

Middle Channel / 15MHz+15MHz



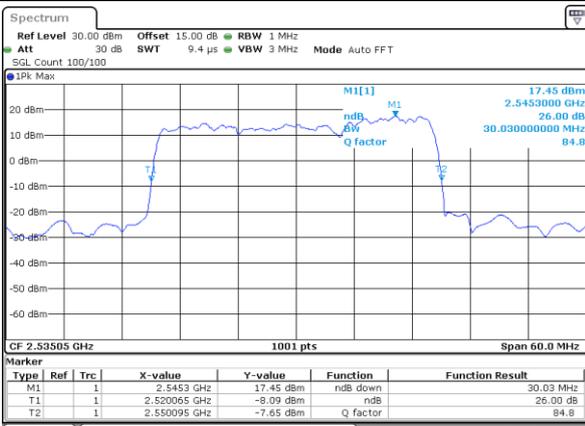
Date: 7.MAY.2025 13:17:47

Middle Channel / 15MHz+20MHz



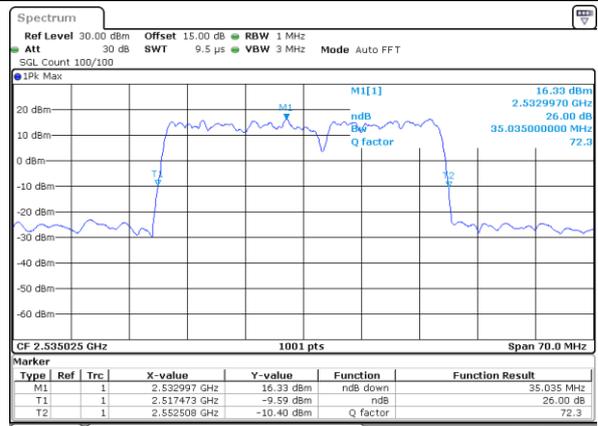
Date: 7.MAY.2025 13:20:16

Middle Channel / 20MHz+10MHz



Date: 7.MAY.2025 13:15:41

Middle Channel / 20MHz+15MHz



Date: 7.MAY.2025 13:22:34

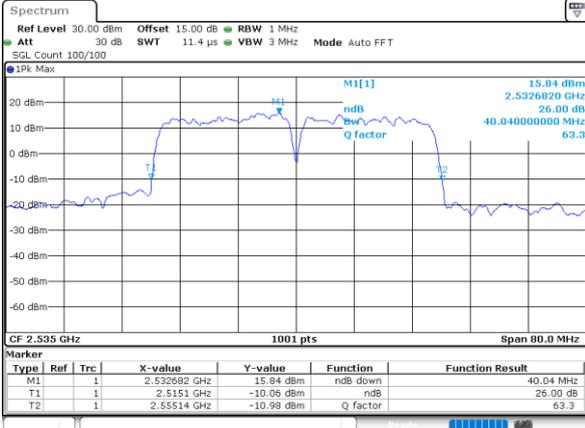


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 7.MAY.2025 13:24:34



### Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.93	23.63	28.65	32.59
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	33.22	37.64	

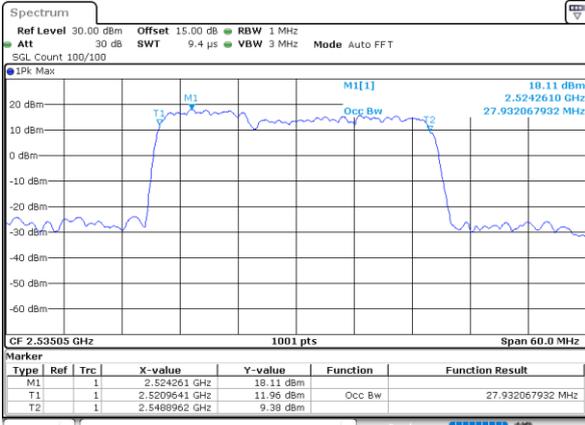
Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.11	23.43	28.65	32.66
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.94	37.72	



LTE Band 7C

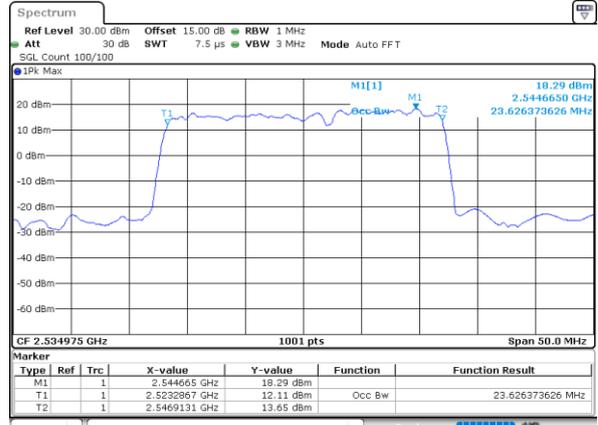
QPSK

Middle Channel / 10MHz+20MHz



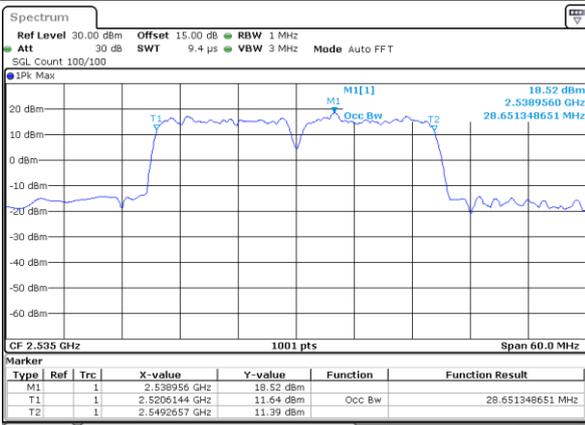
Date: 7.MAY.2025 11:56:42

Middle Channel / 15MHz+10MHz



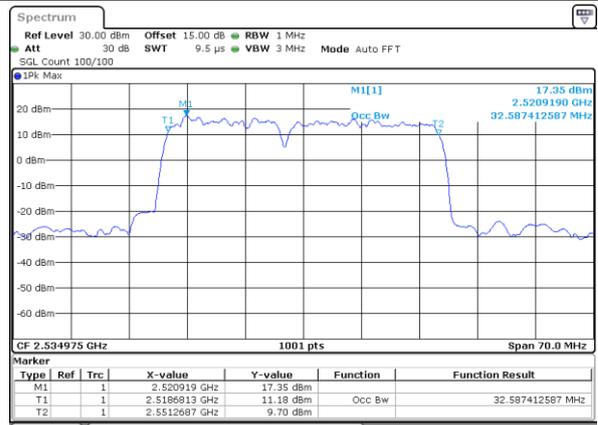
Date: 7.MAY.2025 13:27:01

Middle Channel / 15MHz+15MHz



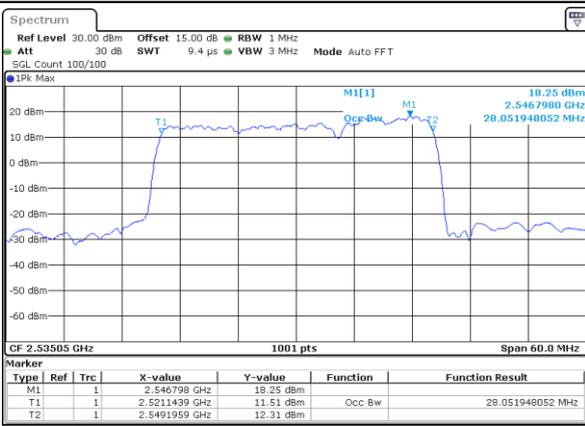
Date: 7.MAY.2025 13:16:51

Middle Channel / 15MHz+20MHz



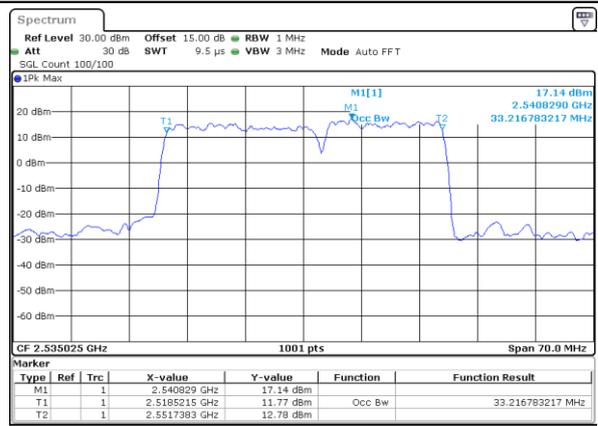
Date: 7.MAY.2025 13:19:16

Middle Channel / 20MHz+10MHz



Date: 7.MAY.2025 13:14:42

Middle Channel / 20MHz+15MHz



Date: 7.MAY.2025 13:21:34

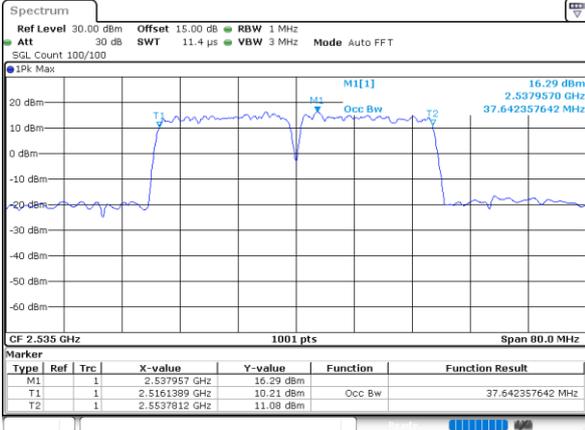


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



Date: 7.MAY.2025 13:23:39