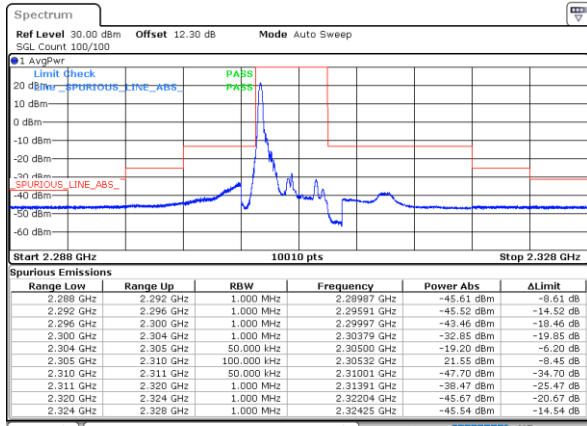




# Conducted Band Edge

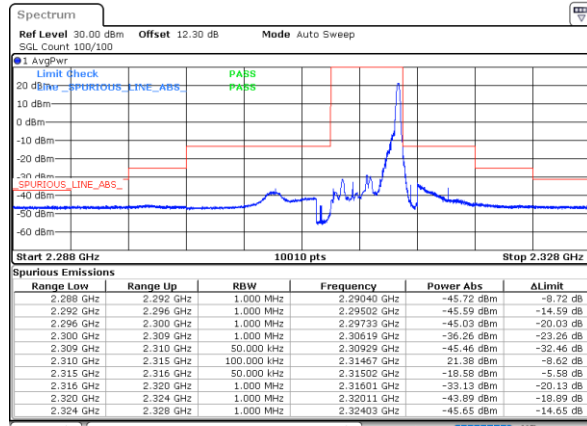
## LTE Band 30 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



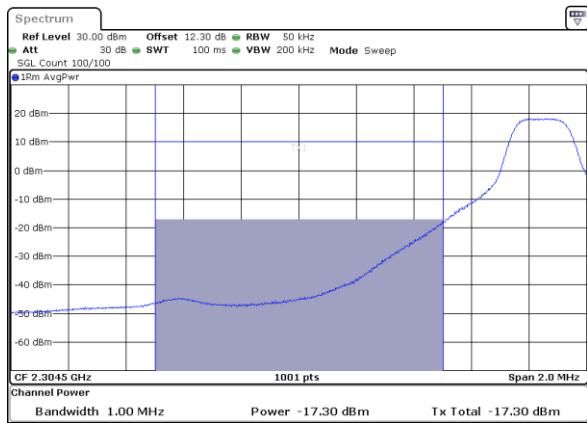
Date: 16.MAY.2024 01:31:43

### Highest Band Edge / 1 RB



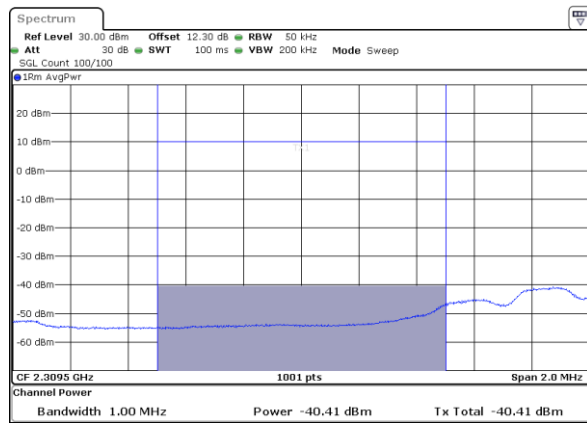
Date: 16.MAY.2024 01:38:55

### Lowest Band Edge / 1 RB / Lower zoom in



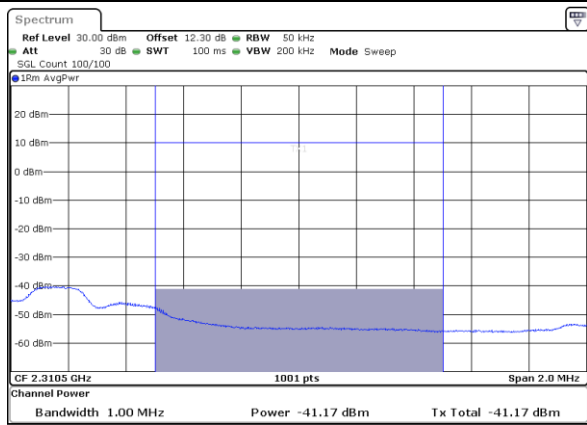
Date: 16.MAY.2024 11:24:20

### Highest Band Edge / 1 RB / Lower zoom in



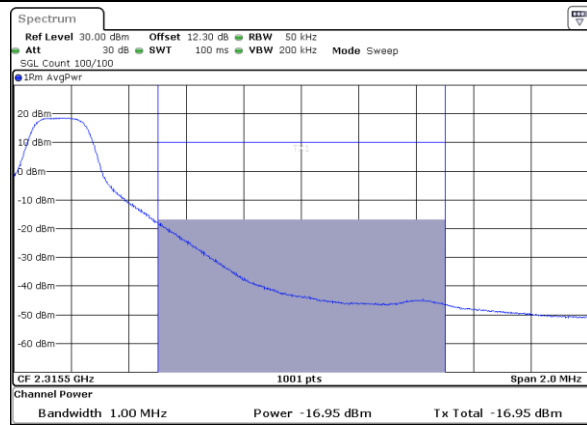
Date: 16.MAY.2024 10:49:28

### Lowest Band Edge / 1 RB / Upper zoom in



Date: 16.MAY.2024 11:24:58

### Highest Band Edge / 1 RB / Upper zoom in

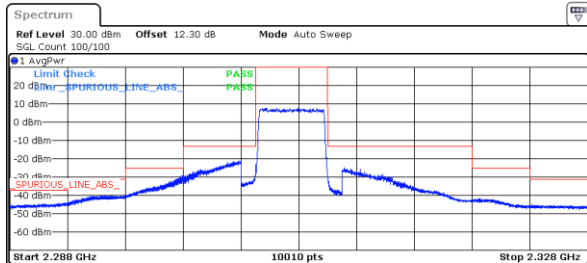


Date: 16.MAY.2024 10:50:16



LTE Band 30 / 5MHz / QPSK

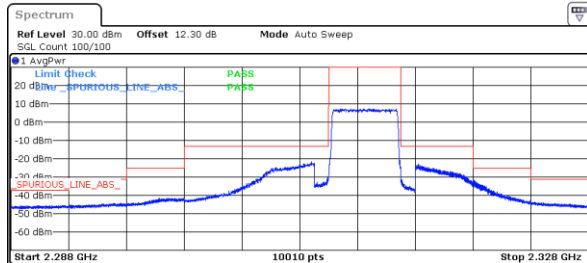
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.29198 GHz	-43.35 dBm	-6.35 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29583 GHz	-40.32 dBm	-9.32 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29983 GHz	-29.00 dBm	-4.00 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30388 GHz	-21.19 dBm	-8.19 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-28.44 dBm	-15.44 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30648 GHz	7.71 dBm	-22.29 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-30.07 dBm	-17.07 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31114 GHz	-24.99 dBm	-11.99 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32057 GHz	-41.79 dBm	-16.79 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32416 GHz	-44.90 dBm	-13.90 dB

Date: 16.MAY.2024 01:35:19

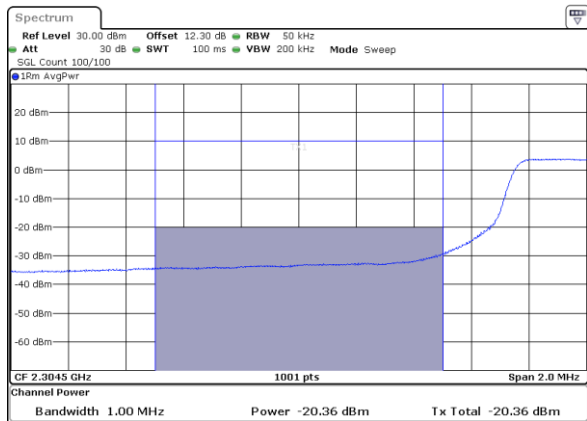
Highest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.29179 GHz	-46.53 dBm	-8.53 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29557 GHz	-44.22 dBm	-13.22 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29890 GHz	-41.66 dBm	-16.66 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30881 GHz	-21.79 dBm	-8.79 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30999 GHz	-29.23 dBm	-16.23 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31113 GHz	7.37 dBm	-22.63 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-29.57 dBm	-16.57 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31619 GHz	-22.87 dBm	-9.87 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32002 GHz	-31.41 dBm	-6.41 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32426 GHz	-43.49 dBm	-12.49 dB

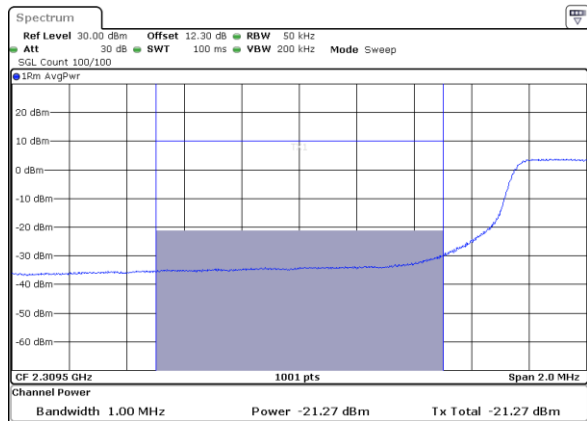
Date: 16.MAY.2024 01:42:30

Lowest Band Edge / Full RB / Lower zoom in



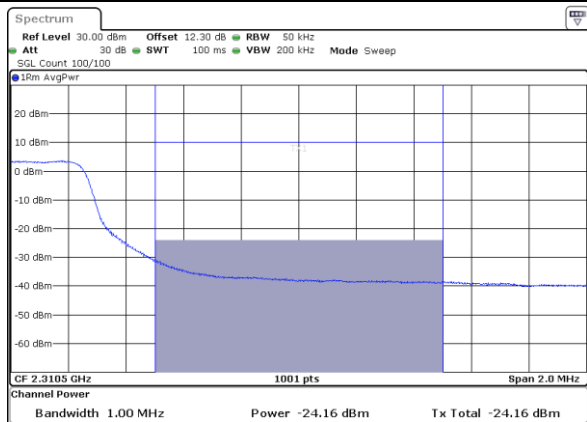
Date: 16.MAY.2024 11:06:26

Highest Band Edge / Full RB / Lower zoom in



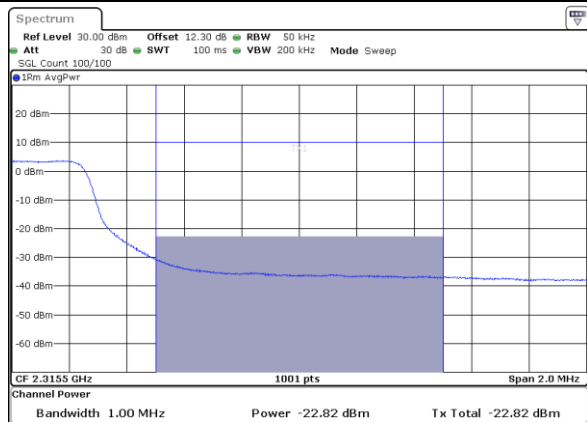
Date: 16.MAY.2024 11:05:11

Lowest Band Edge / Full RB / Upper zoom in



Date: 16.MAY.2024 11:07:53

Highest Band Edge / Full RB / Upper zoom in

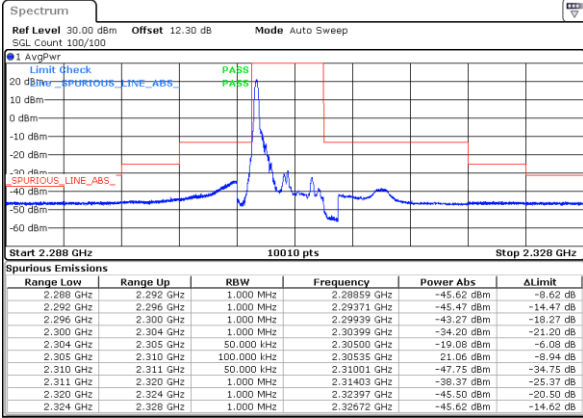


Date: 16.MAY.2024 11:04:31

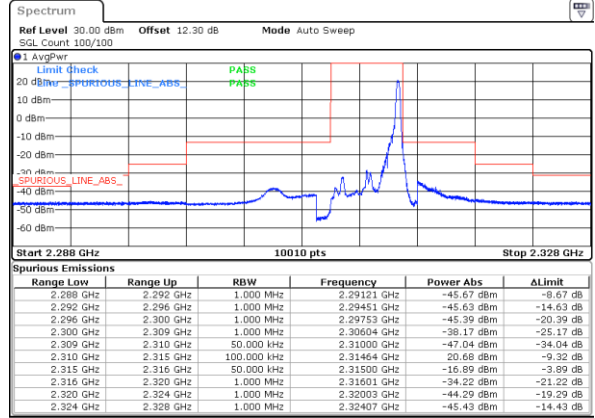


LTE Band 30 / 5MHz / 16QAM

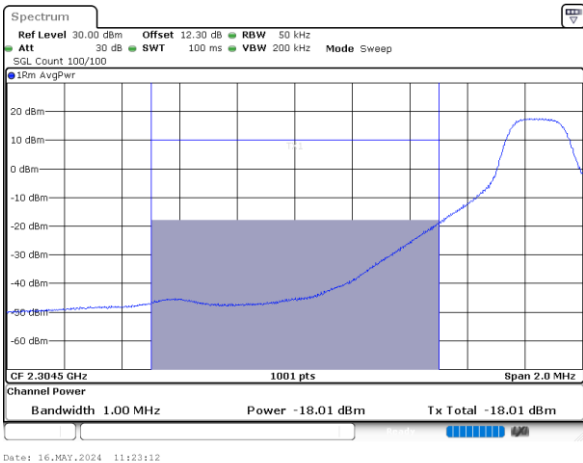
Lowest Band Edge / 1 RB



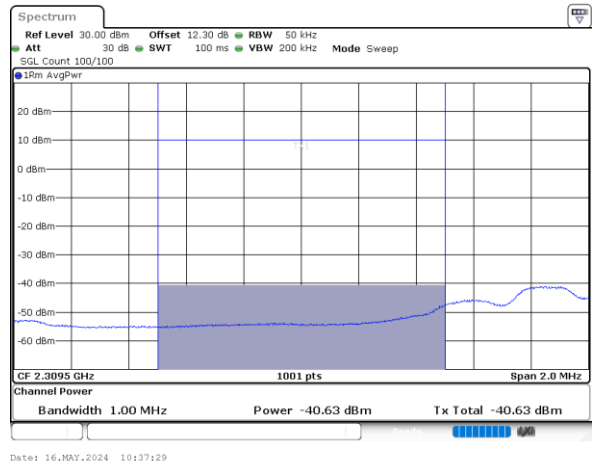
Highest Band Edge / 1 RB



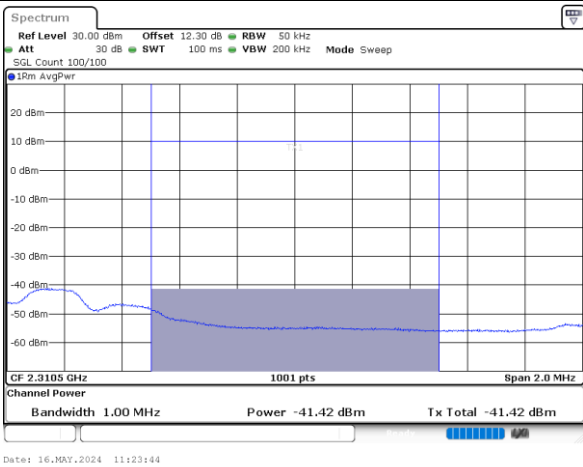
Lowest Band Edge / 1 RB / Lower zoom in



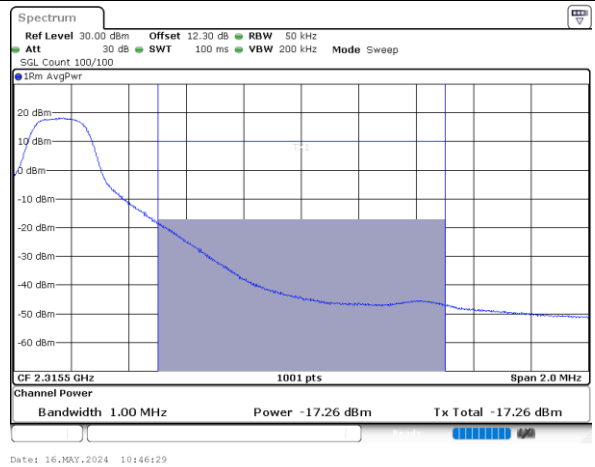
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



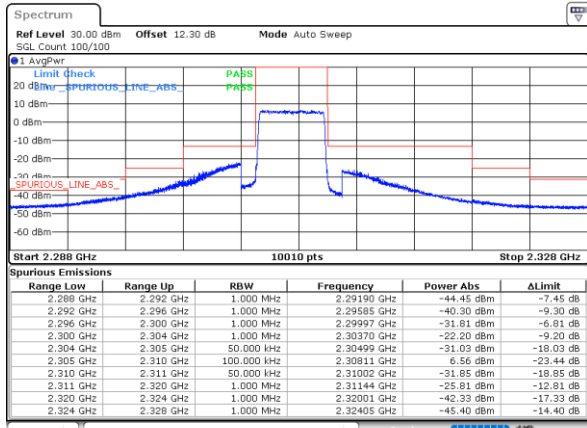
Highest Band Edge / 1 RB / Upper zoom in





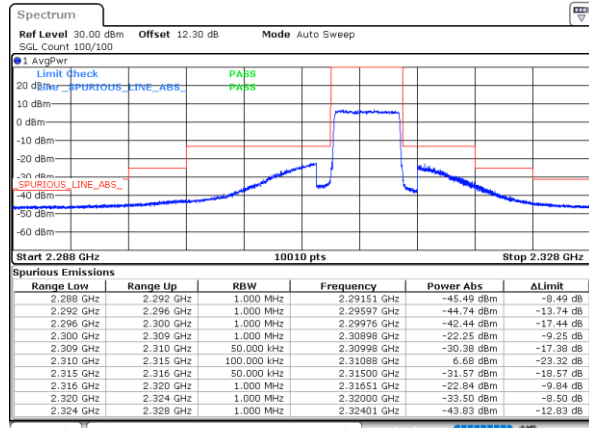
LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / Full RB



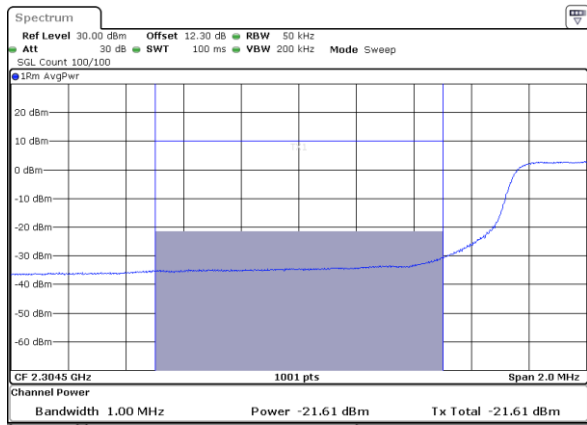
Date: 16.MAY.2024 01:36:12

Highest Band Edge / Full RB



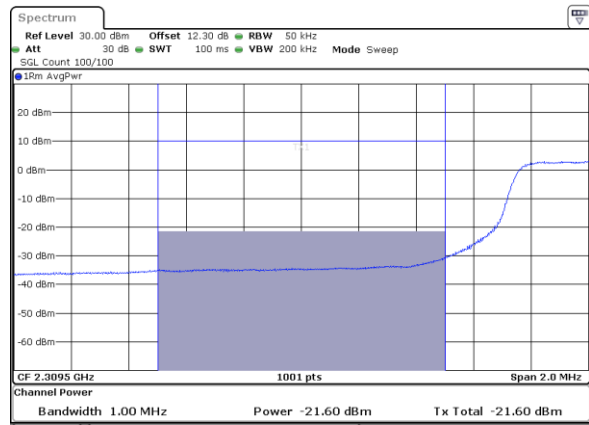
Date: 16.MAY.2024 01:43:24

Lowest Band Edge / Full RB / Lower zoom in



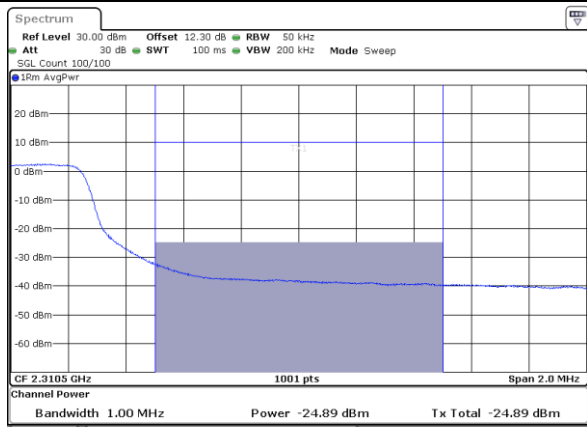
Date: 16.MAY.2024 11:08:33

Highest Band Edge / Full RB / Lower zoom in



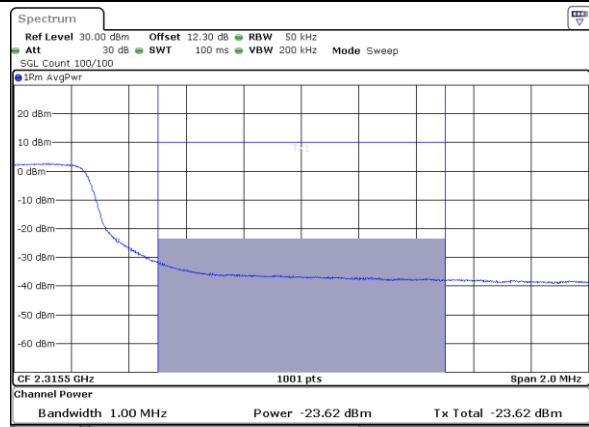
Date: 16.MAY.2024 11:03:16

Lowest Band Edge / Full RB / Upper zoom in



Date: 16.MAY.2024 11:09:08

Highest Band Edge / Full RB / Upper zoom in

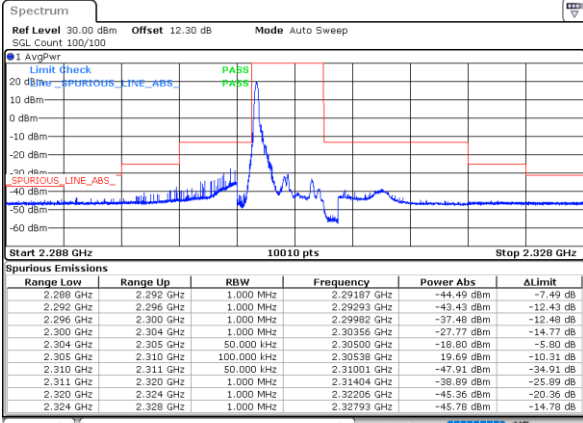


Date: 16.MAY.2024 11:03:51

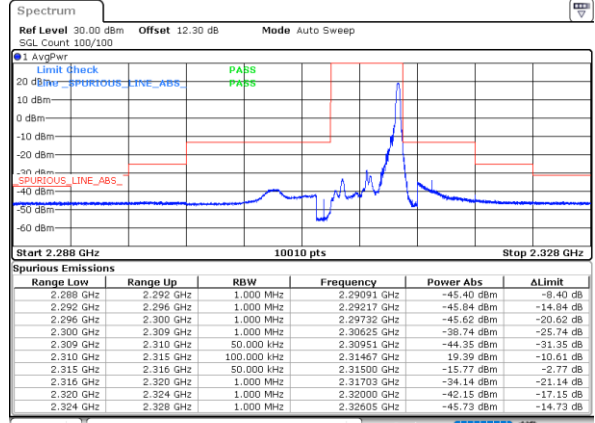


LTE Band 30 / 5MHz / 64QAM

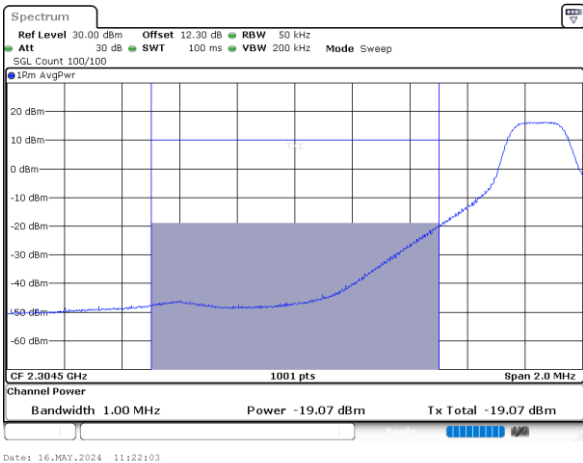
Lowest Band Edge / 1 RB



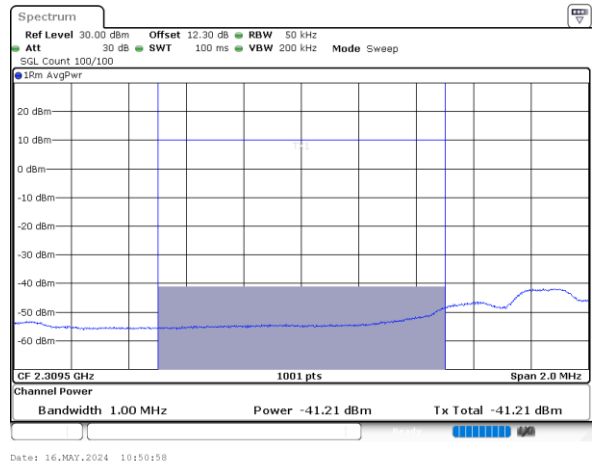
Highest Band Edge / 1 RB



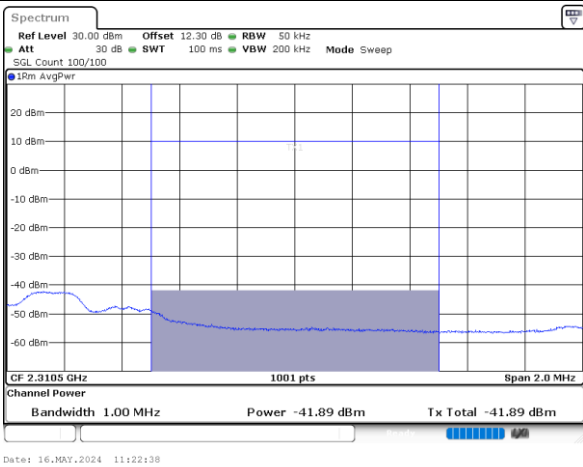
Lowest Band Edge / 1 RB / Lower zoom in



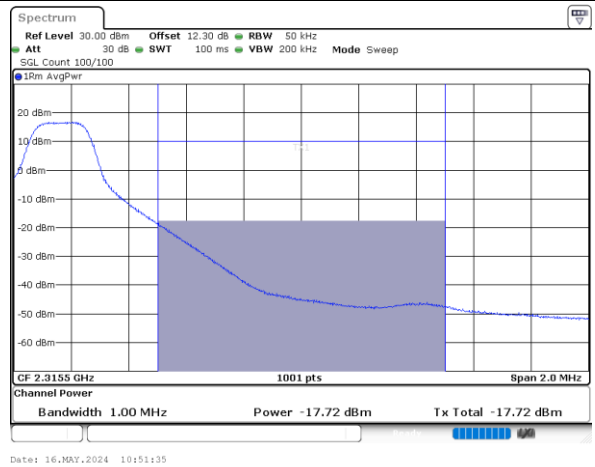
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



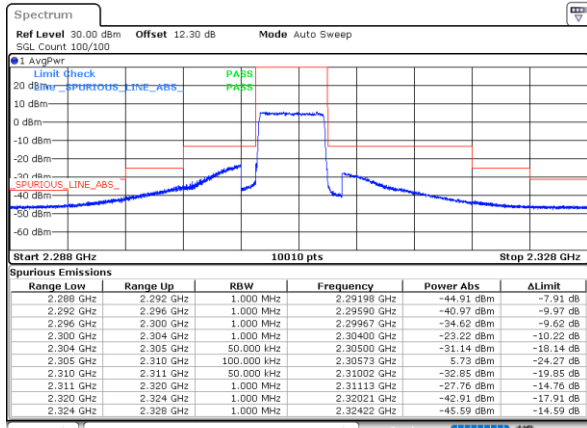
Highest Band Edge / 1 RB / Upper zoom in





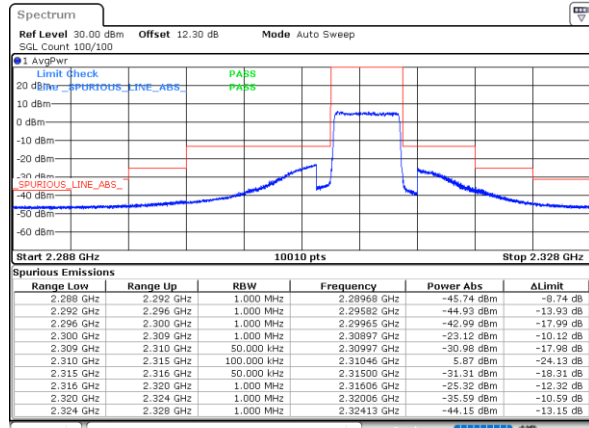
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / Full RB



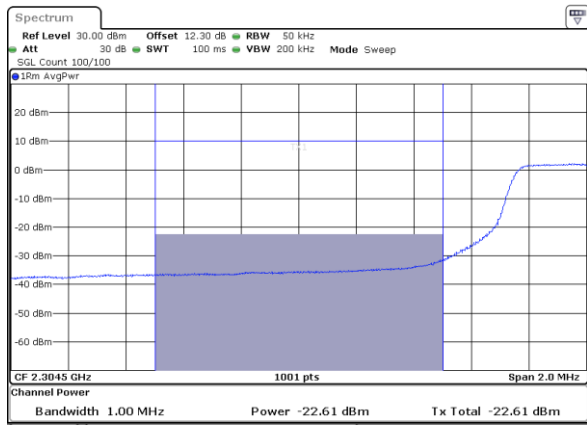
Date: 16.MAY.2024 01:37:07

Highest Band Edge / Full RB



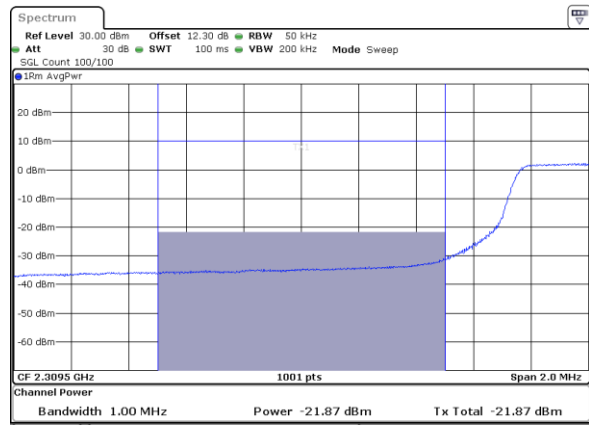
Date: 16.MAY.2024 01:44:18

Lowest Band Edge / Full RB / Lower zoom in



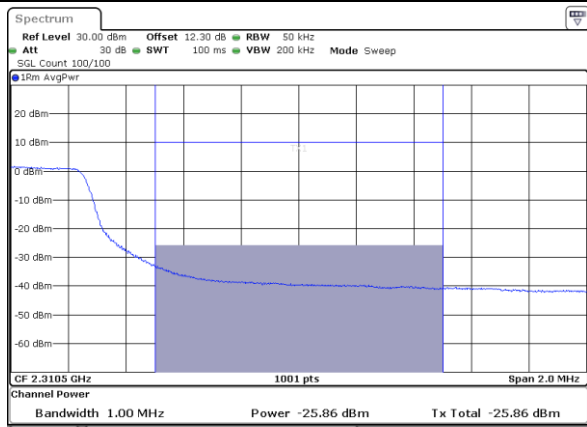
Date: 16.MAY.2024 11:09:51

Highest Band Edge / Full RB / Lower zoom in



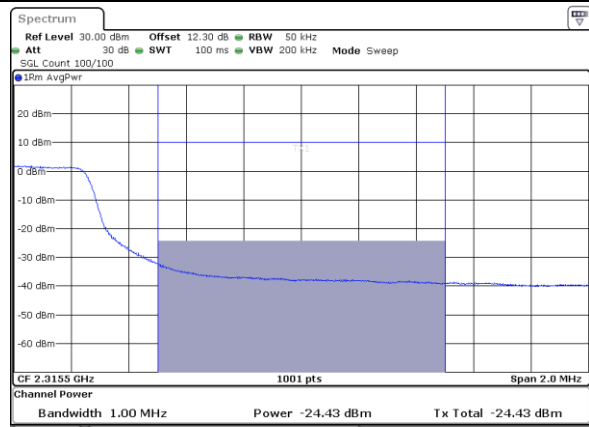
Date: 16.MAY.2024 11:00:56

Lowest Band Edge / Full RB / Upper zoom in



Date: 16.MAY.2024 11:10:24

Highest Band Edge / Full RB / Upper zoom in

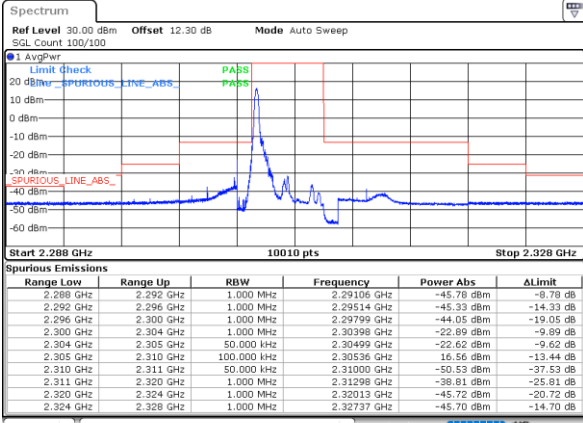


Date: 16.MAY.2024 11:10:30



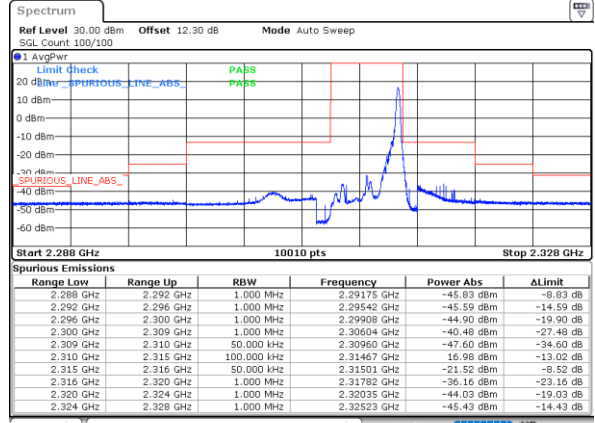
LTE Band 30 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



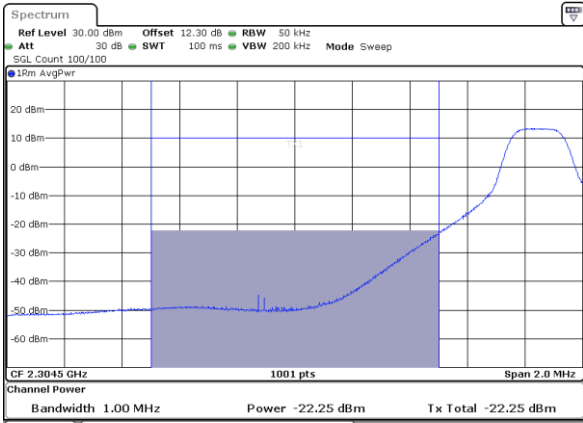
Date: 16.MAY.2024 01:34:24

Highest Band Edge / 1 RB



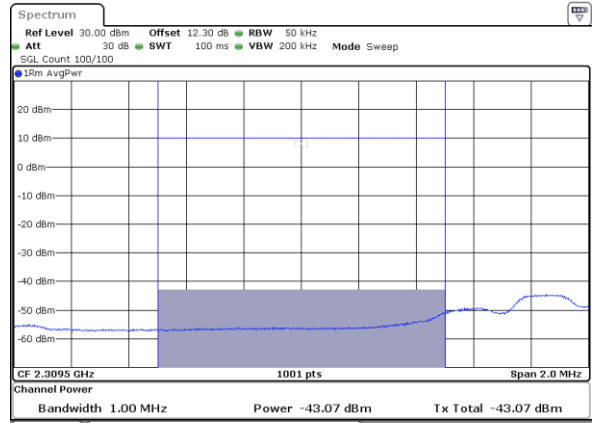
Date: 16.MAY.2024 01:41:36

Lowest Band Edge / 1 RB / Lower zoom in



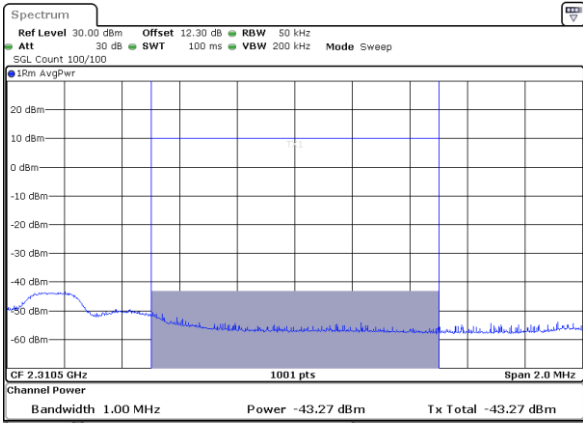
Date: 16.MAY.2024 11:17:32

Highest Band Edge / 1 RB / Lower zoom in



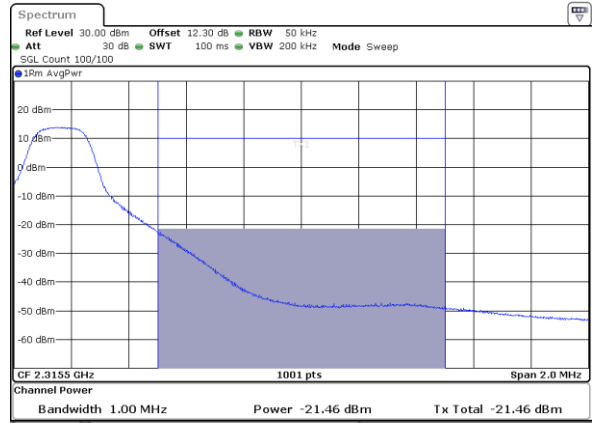
Date: 16.MAY.2024 10:52:18

Lowest Band Edge / 1 RB / Upper zoom in



Date: 16.MAY.2024 11:20:23

Highest Band Edge / 1 RB / Upper zoom in

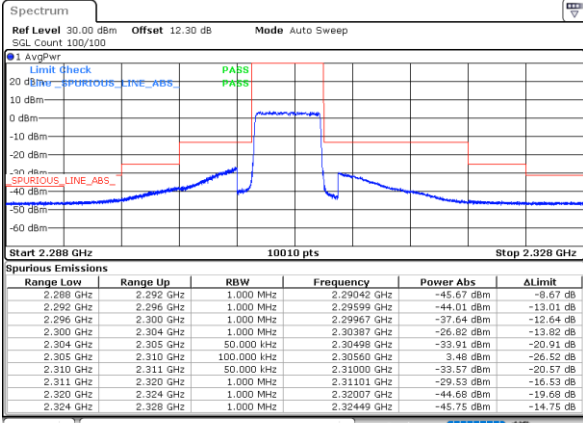


Date: 16.MAY.2024 10:53:47

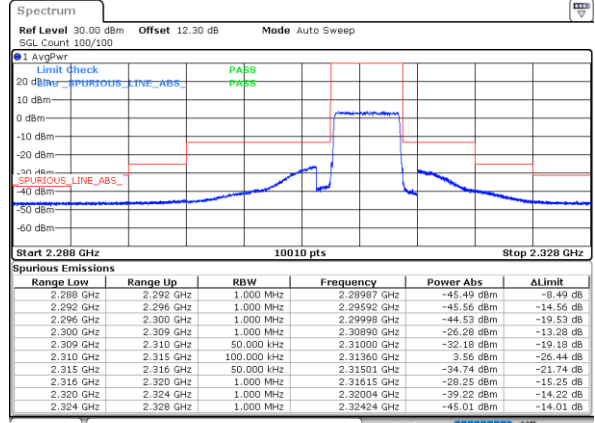


LTE Band 30 / 5MHz / 256QAM

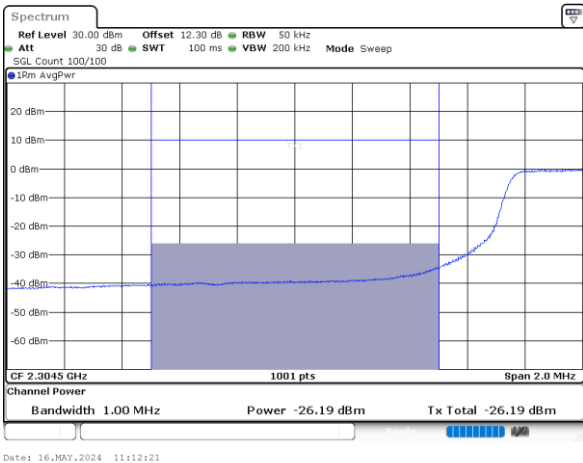
Lowest Band Edge / Full RB



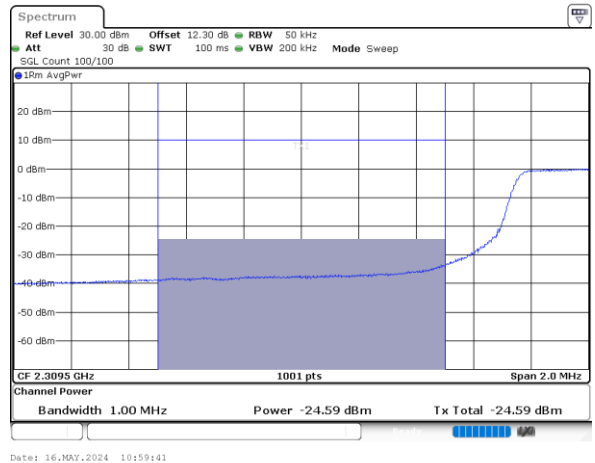
Highest Band Edge / Full RB



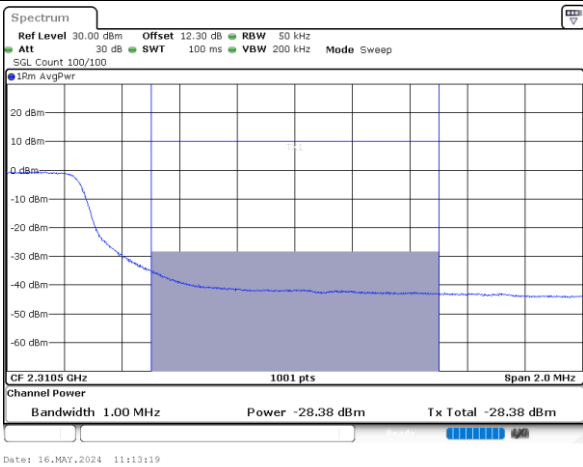
Lowest Band Edge / Full RB / Lower zoom in



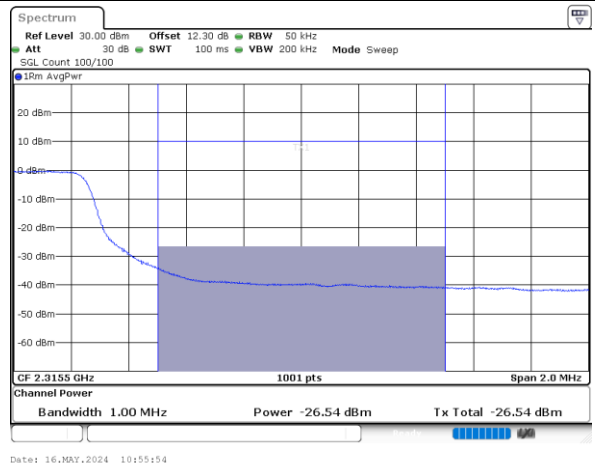
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



Highest Band Edge / Full RB / Upper zoom in

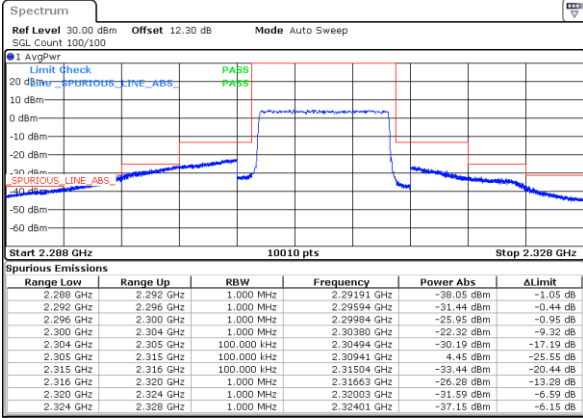






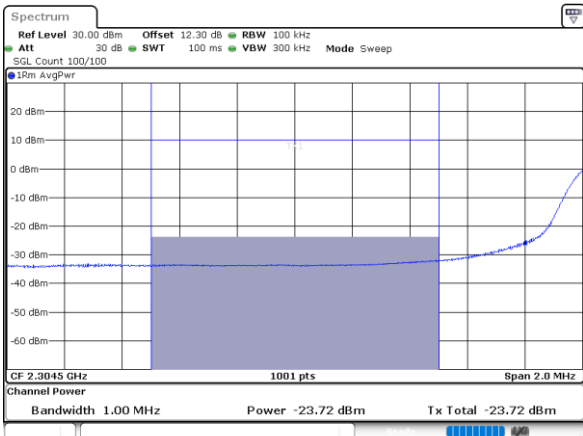
LTE Band 30 / 10MHz / QPSK

Middle Band Edge / Full RB



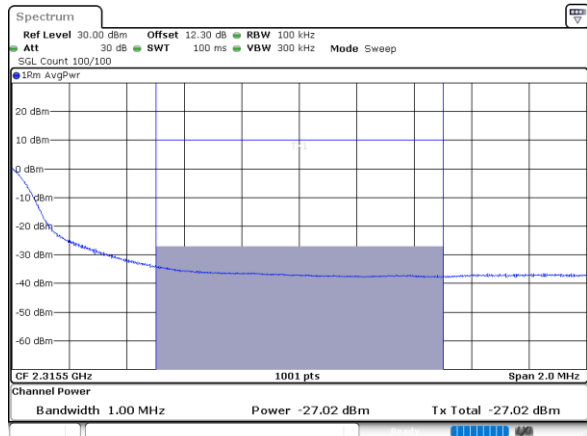
Date: 16.MAY.2024 01:46:49

Middle Band Edge / Full RB / Lower zoom in



Date: 16.MAY.2024 11:40:42

Middle Band Edge / Full RB / Upper zoom in

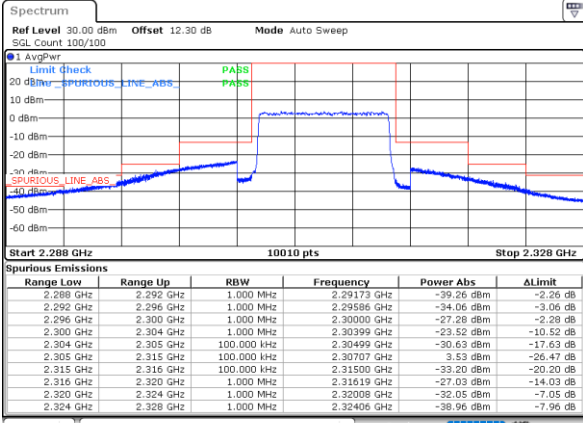


Date: 16.MAY.2024 11:41:45



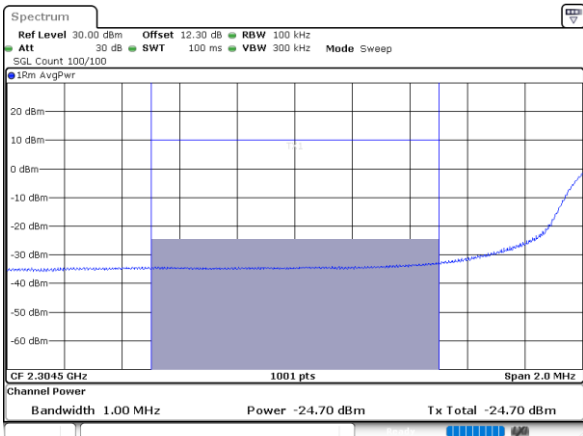
LTE Band 30 / 10MHz / 16QAM

Middle Band Edge / Full RB



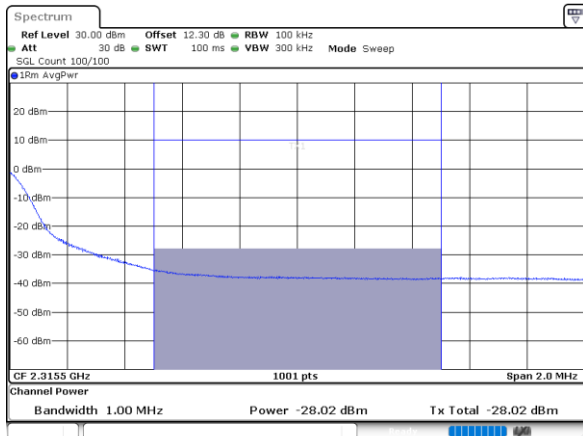
Date: 16.MAY.2024 01:47:43

Middle Band Edge / Full RB / Lower zoom in



Date: 16.MAY.2024 11:43:05

Middle Band Edge / Full RB / Upper zoom in

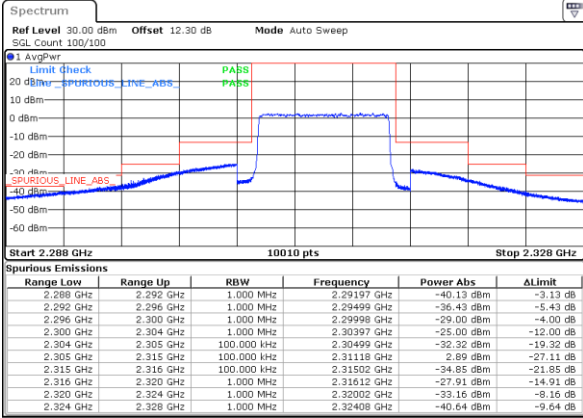


Date: 16.MAY.2024 11:42:29



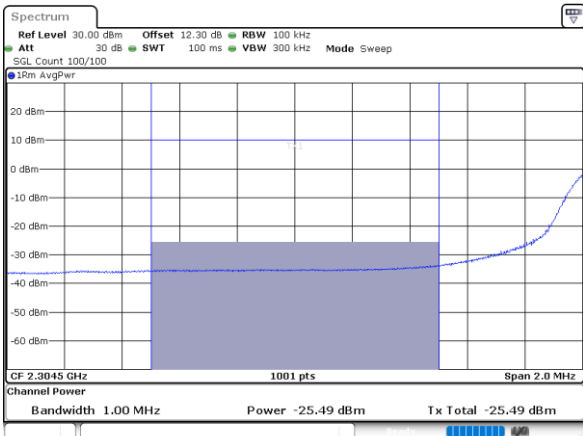
LTE Band 30 / 10MHz / 64QAM

Middle Band Edge / Full RB



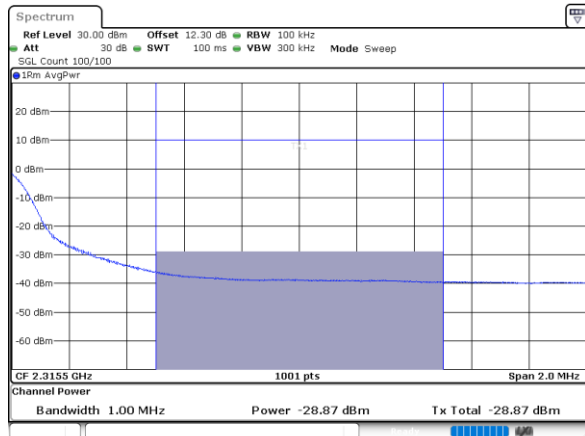
Date: 16.MAY.2024 01:48:36

Middle Band Edge / Full RB / Lower zoom in



Date: 16.MAY.2024 11:44:15

Middle Band Edge / Full RB / Upper zoom in

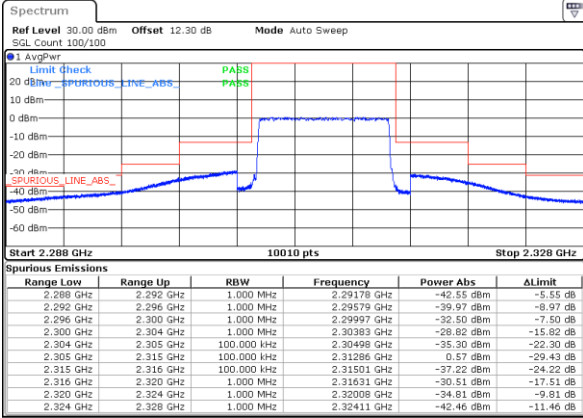


Date: 16.MAY.2024 11:45:27



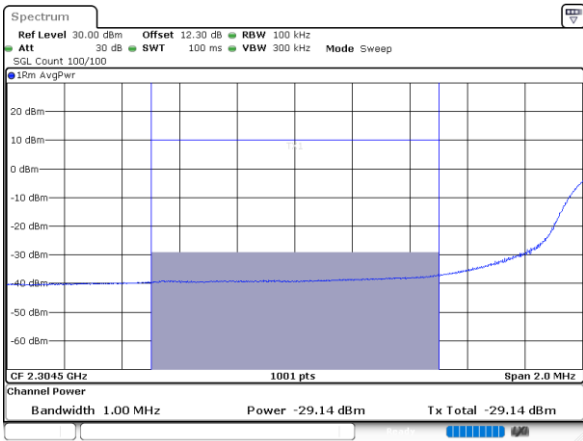
LTE Band 30 / 10MHz / 256QAM

Middle Band Edge / Full RB



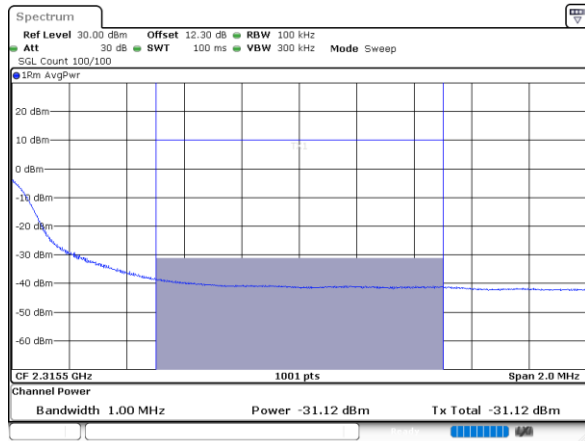
Date: 16.MAY.2024 01:49:29

Middle Band Edge / Full RB / Lower zoom in



Date: 16.MAY.2024 11:46:01

Middle Band Edge / Full RB / Upper zoom in



Date: 16.MAY.2024 11:46:34



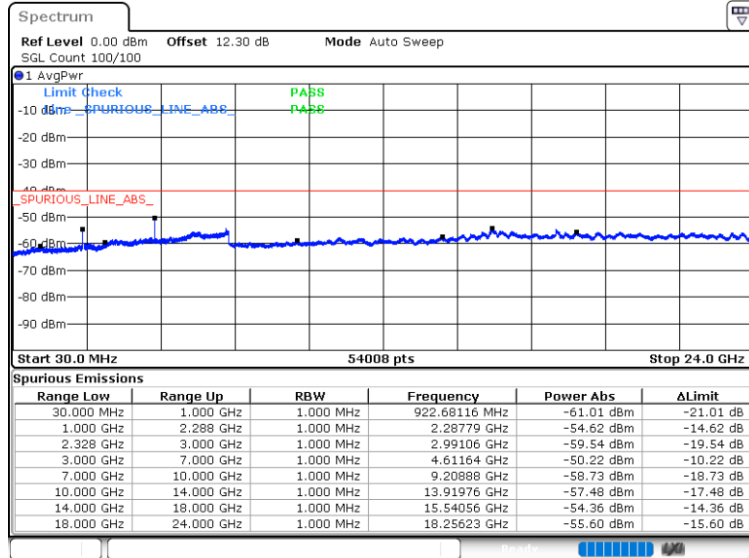
# Conducted Spurious Emission





LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 16.MAY.2024 02:05:17



### Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0039	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0062	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

**Note:**

- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

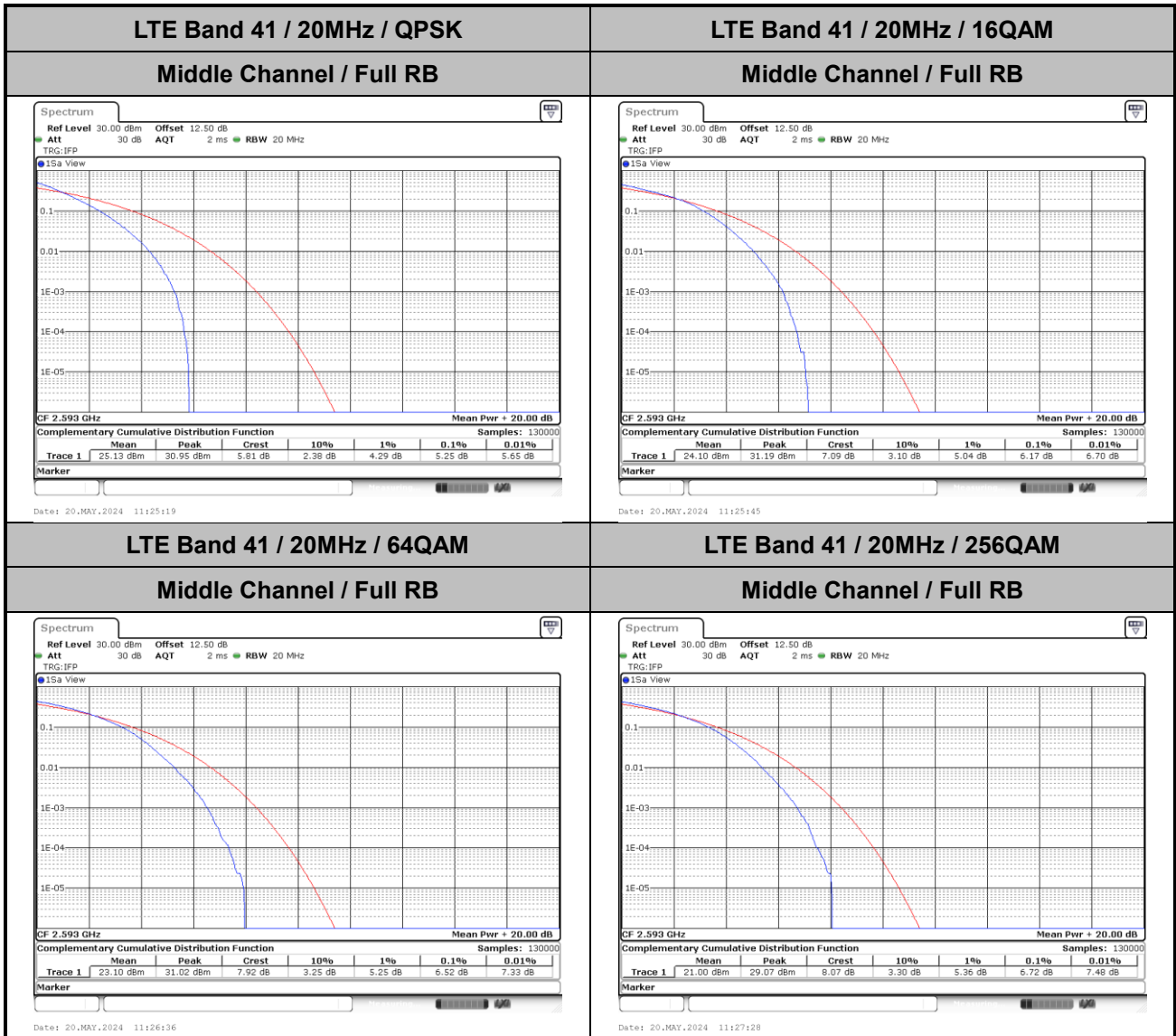


## LTE Band 41 (HPUE)

### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.17	6.52	6.72	PASS







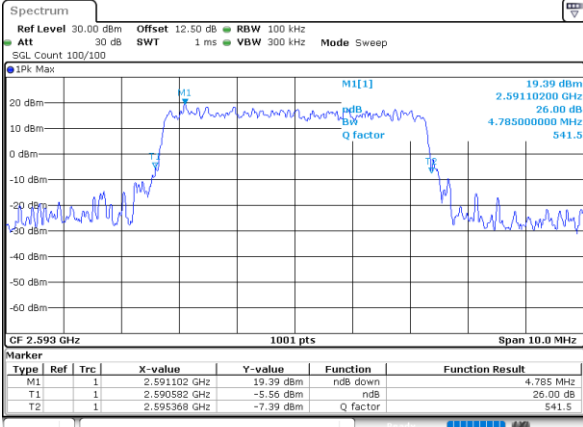
**26dB Bandwidth**

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	-	-	-	-	4.78	4.80	9.65	9.65	14.38	14.20	18.74	18.74
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.83	4.81	9.71	9.66	14.26	14.23	18.86	18.70



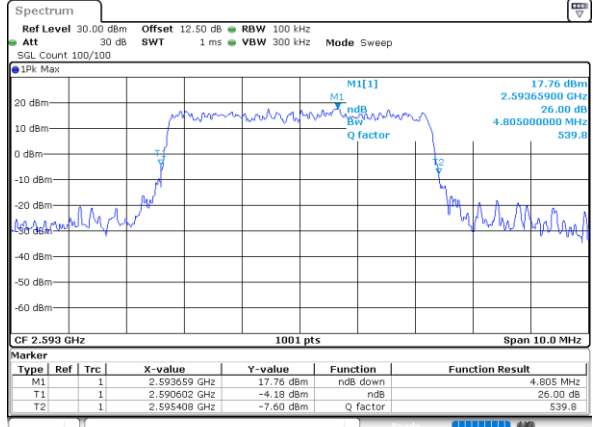
LTE Band 41

Middle Channel / 5MHz / QPSK



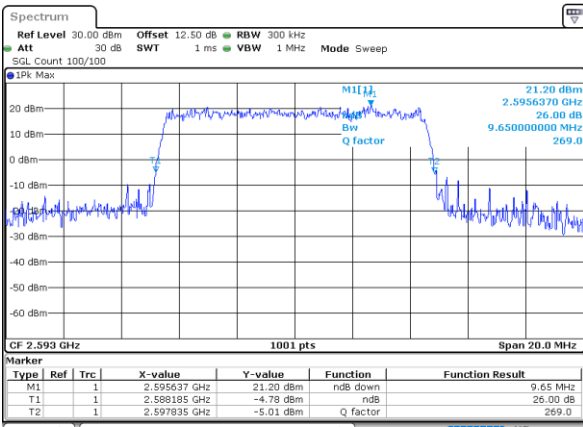
Date: 20\_MAY.2024 10:45:43

Middle Channel / 5MHz / 16QAM



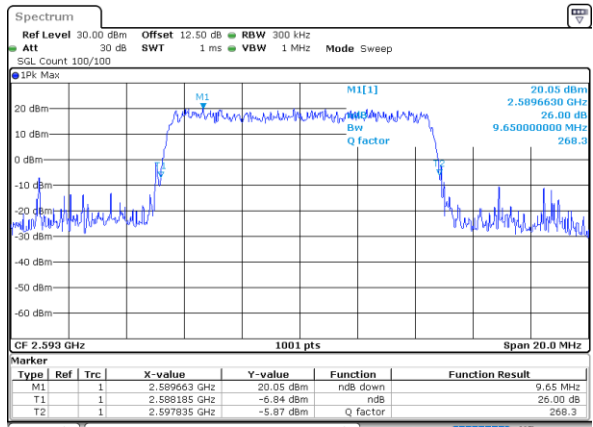
Date: 20\_MAY.2024 10:46:21

Middle Channel / 10MHz / QPSK



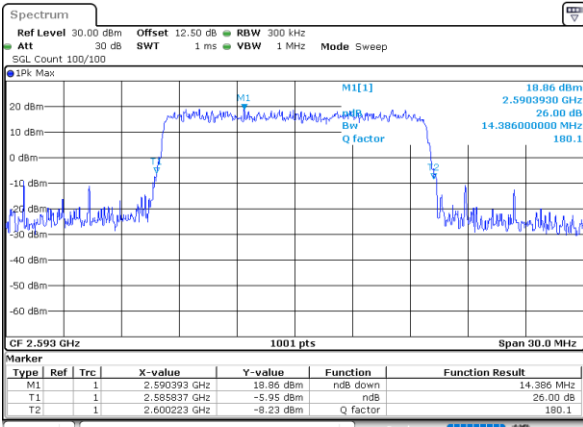
Date: 20\_MAY.2024 11:04:16

Middle Channel / 10MHz / 16QAM



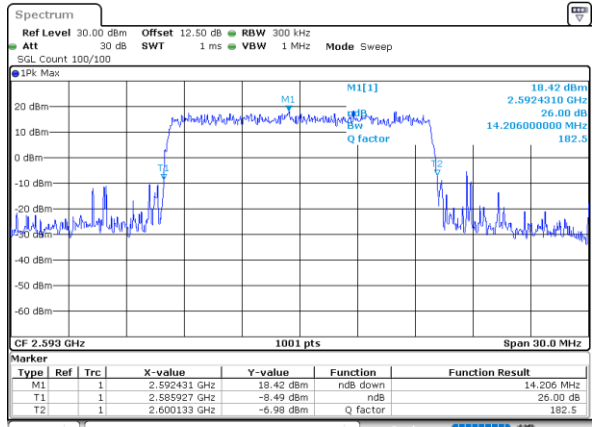
Date: 20\_MAY.2024 11:04:53

Middle Channel / 15MHz / QPSK



Date: 20\_MAY.2024 11:14:41

Middle Channel / 15MHz / 16QAM

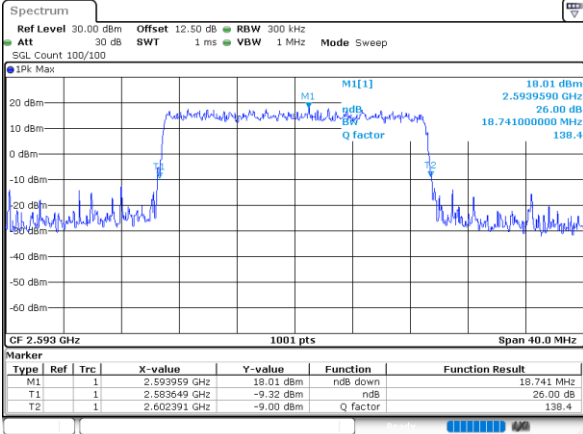


Date: 20\_MAY.2024 11:15:18



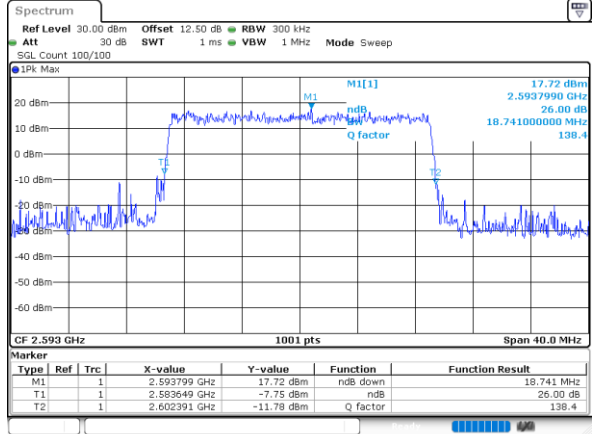
LTE Band 41

Middle Channel / 20MHz / QPSK



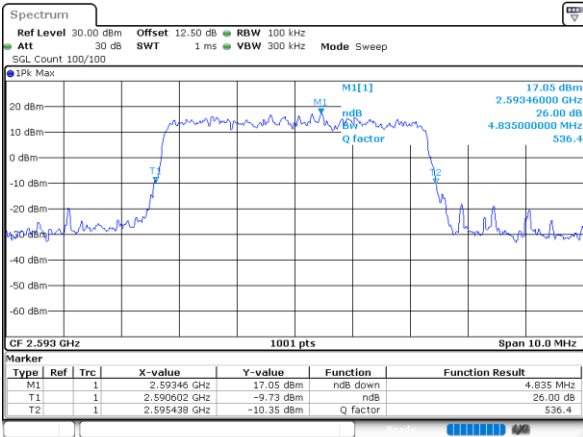
Date: 20\_MAY.2024 11:25:05

Middle Channel / 20MHz / 16QAM



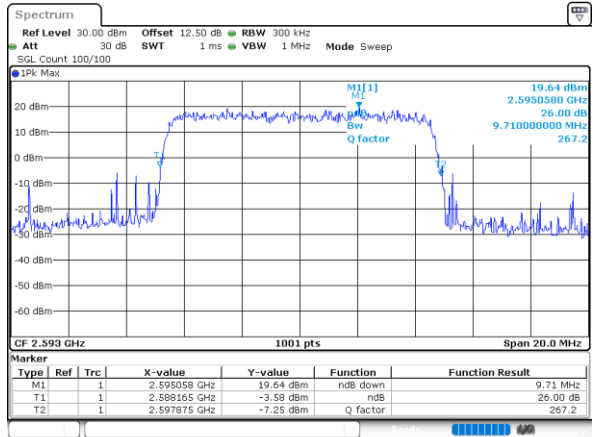
Date: 20\_MAY.2024 11:26:11

Middle Channel / 5MHz / 64QAM



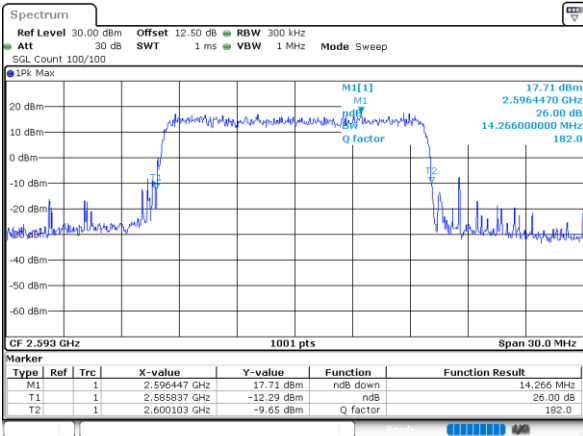
Date: 20\_MAY.2024 10:46:58

Middle Channel / 10MHz / 64QAM



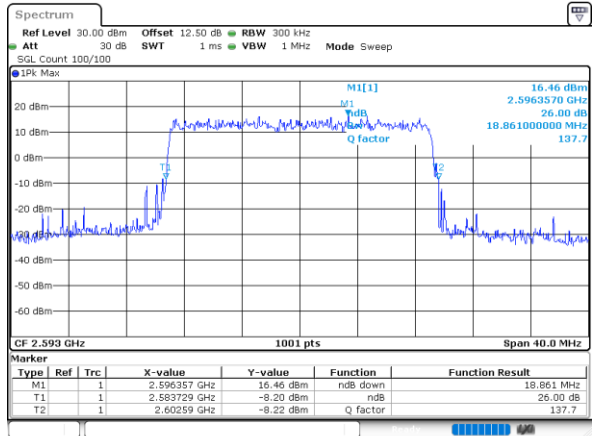
Date: 20\_MAY.2024 11:05:31

Middle Channel / 15MHz / 64QAM



Date: 20\_MAY.2024 11:15:56

Middle Channel / 20MHz / 64QAM

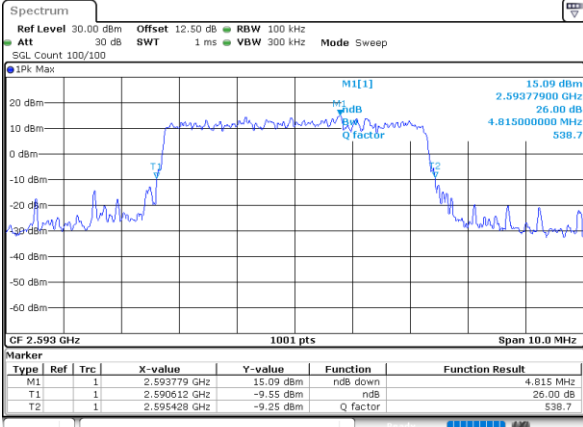


Date: 20\_MAY.2024 11:27:02



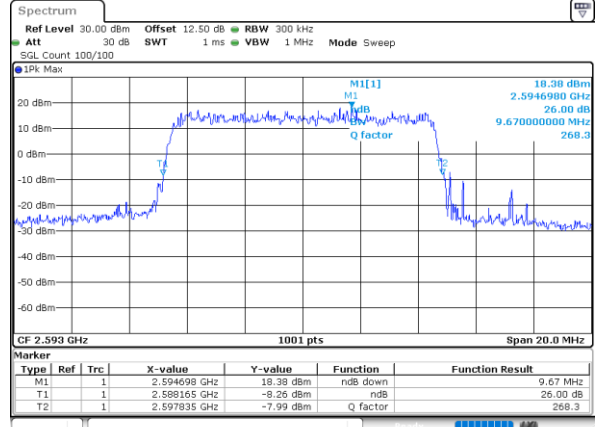
LTE Band 41

Middle Channel / 5MHz / 256QAM



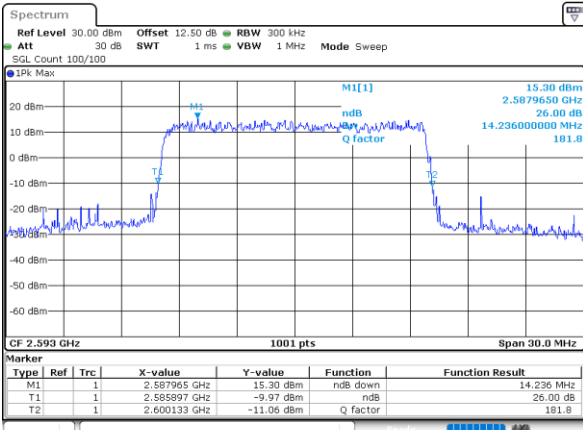
Date: 20.MAY.2024 10:47:35

Middle Channel / 10MHz / 256QAM



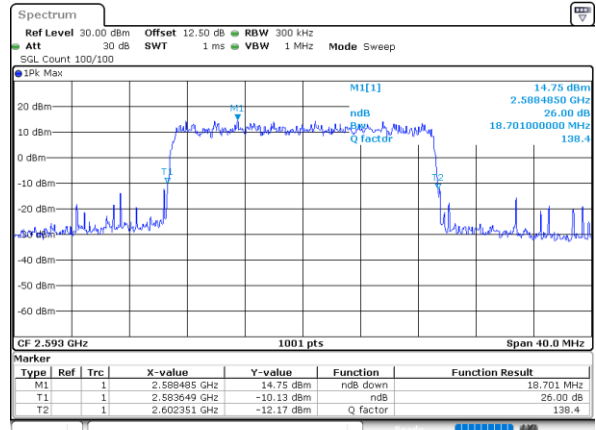
Date: 20.MAY.2024 11:06:08

Middle Channel / 15MHz / 256QAM



Date: 20.MAY.2024 11:16:33

Middle Channel / 20MHz / 256QAM



Date: 20.MAY.2024 11:27:54



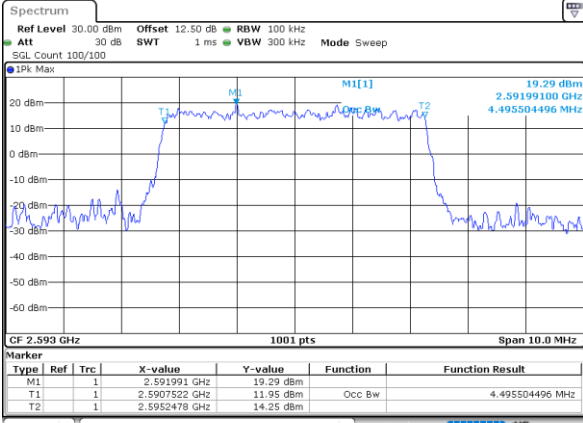
Occupied Bandwidth

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	4.48	9.01	9.03	13.39	13.45	17.82	17.86
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.49	4.48	9.01	9.01	13.45	13.39	17.82	17.86



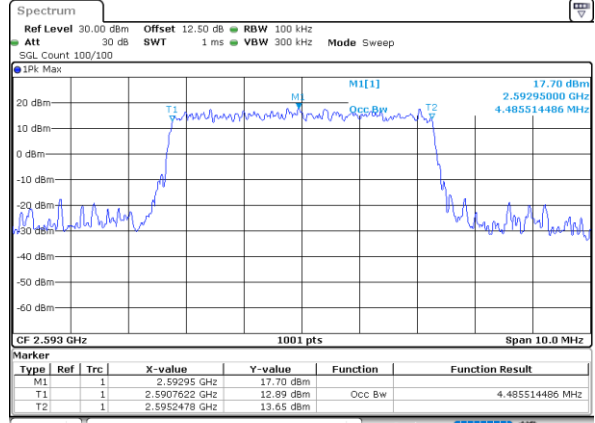
LTE Band 41

Middle Channel / 5MHz / QPSK



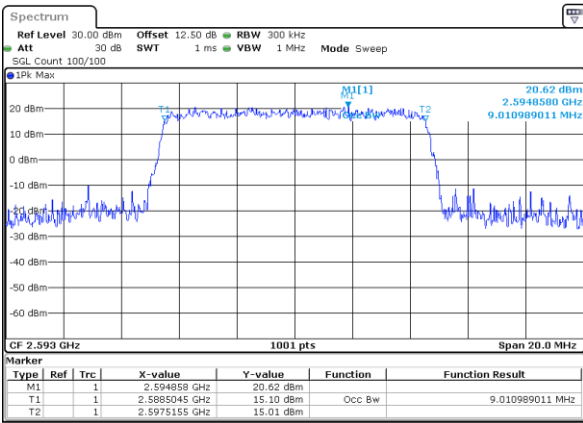
Date: 20\_MAY\_2024 10:45:30

Middle Channel / 5MHz / 16QAM



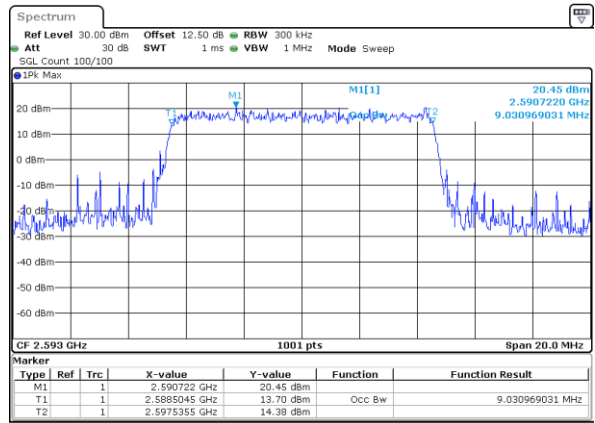
Date: 20\_MAY\_2024 10:46:08

Middle Channel / 10MHz / QPSK



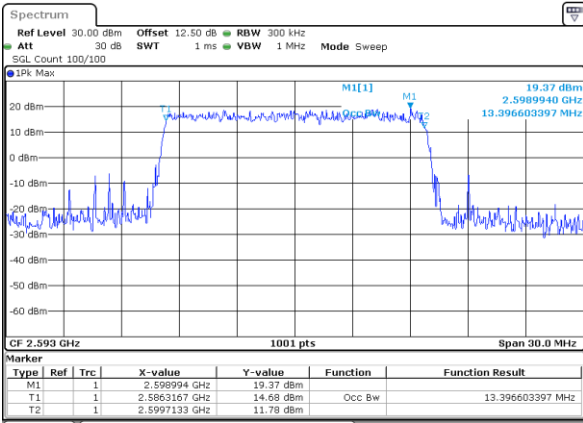
Date: 20\_MAY\_2024 11:04:03

Middle Channel / 10MHz / 16QAM



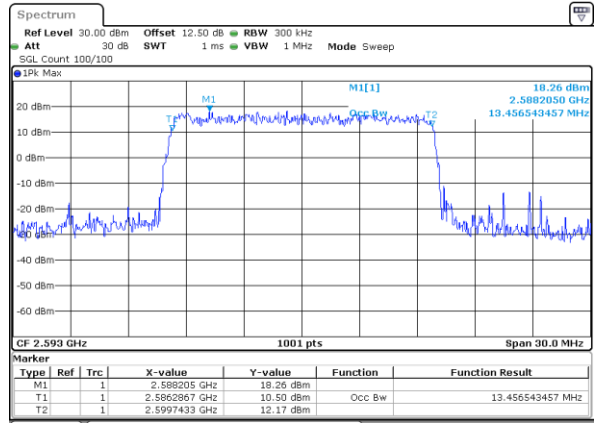
Date: 20\_MAY\_2024 11:04:40

Middle Channel / 15MHz / QPSK



Date: 20\_MAY\_2024 11:14:28

Middle Channel / 15MHz / 16QAM

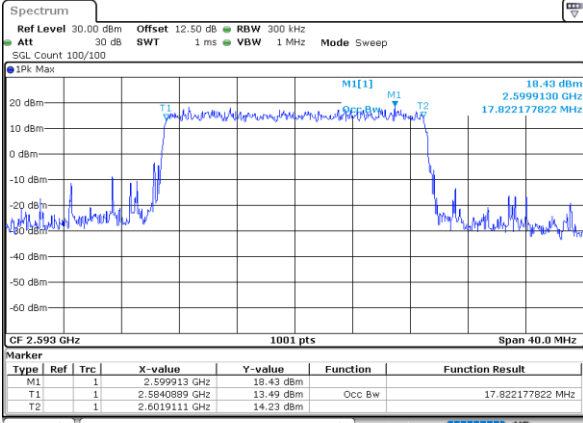


Date: 20\_MAY\_2024 11:15:05



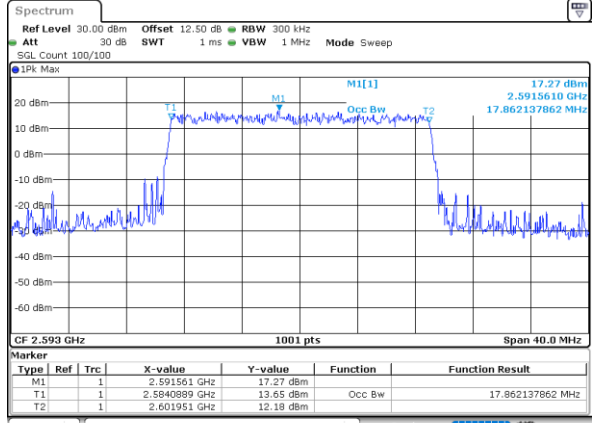
LTE Band 41

Middle Channel / 20MHz / QPSK



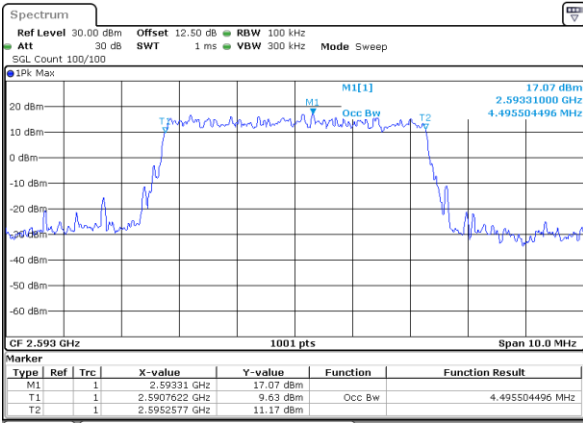
Date: 20.MAY.2024 11:24:52

Middle Channel / 20MHz / 16QAM



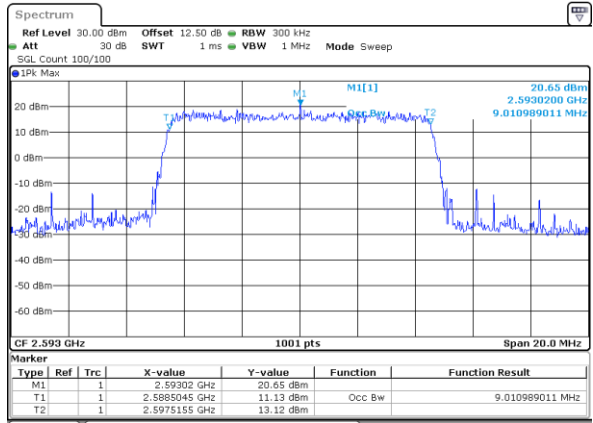
Date: 20.MAY.2024 11:25:58

Middle Channel / 5MHz / 64QAM



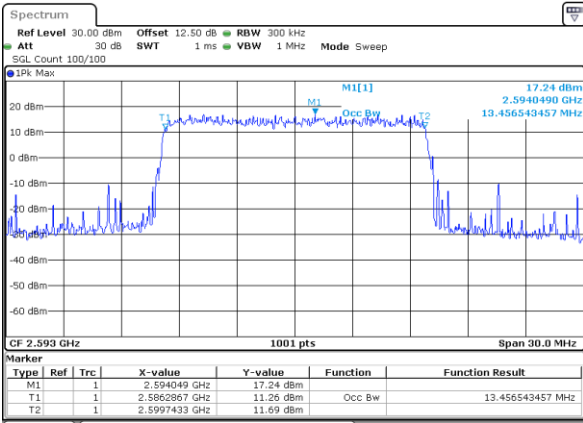
Date: 20.MAY.2024 10:46:45

Middle Channel / 10MHz / 64QAM



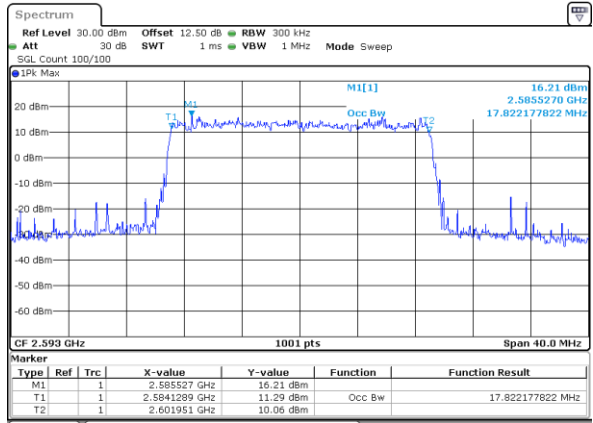
Date: 20.MAY.2024 11:05:18

Middle Channel / 15MHz / 64QAM



Date: 20.MAY.2024 11:15:43

Middle Channel / 20MHz / 64QAM



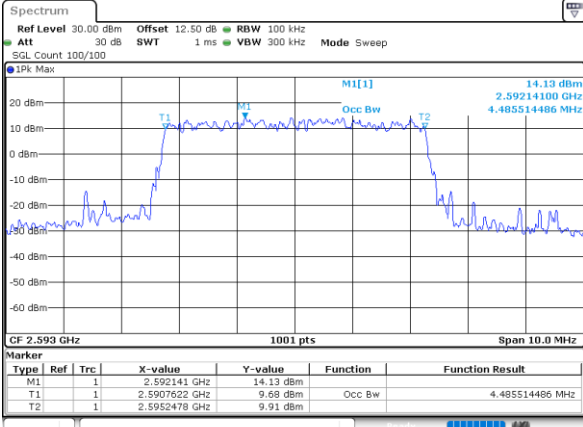
Date: 20.MAY.2024 11:26:49





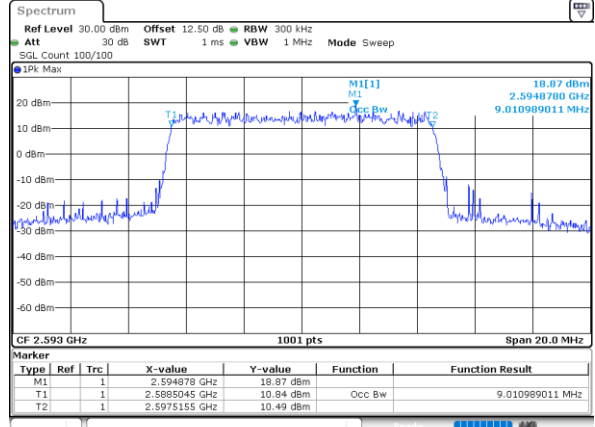
LTE Band 41

Middle Channel / 5MHz / 256QAM



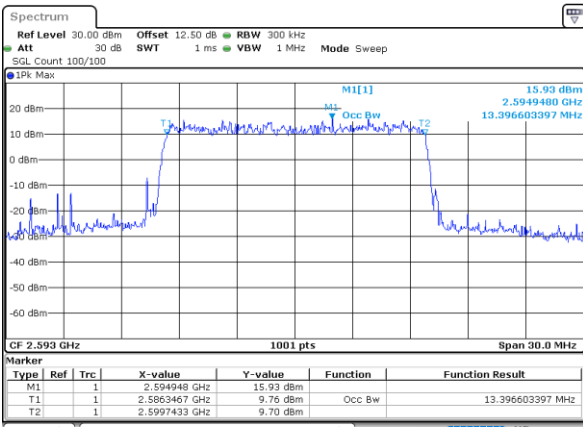
Date: 20.MAY.2024 10:47:22

Middle Channel / 10MHz / 256QAM



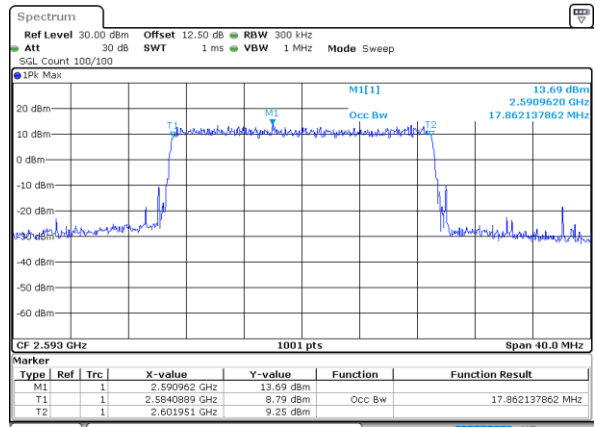
Date: 20.MAY.2024 11:05:55

Middle Channel / 15MHz / 256QAM



Date: 20.MAY.2024 11:16:20

Middle Channel / 20MHz / 256QAM



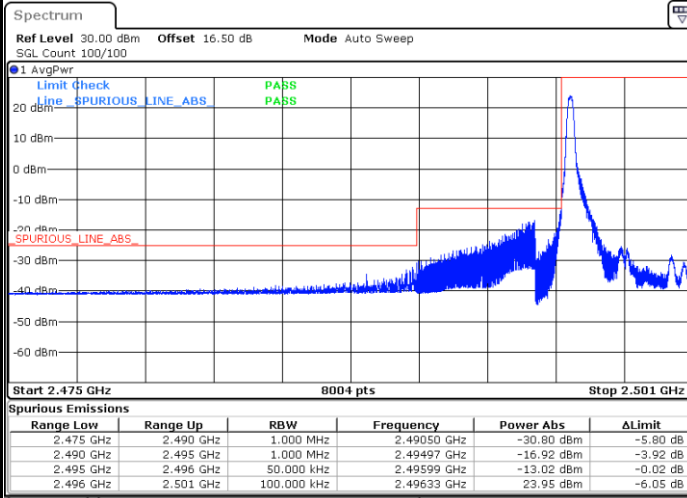
Date: 20.MAY.2024 11:27:41



# Conducted Band Edge

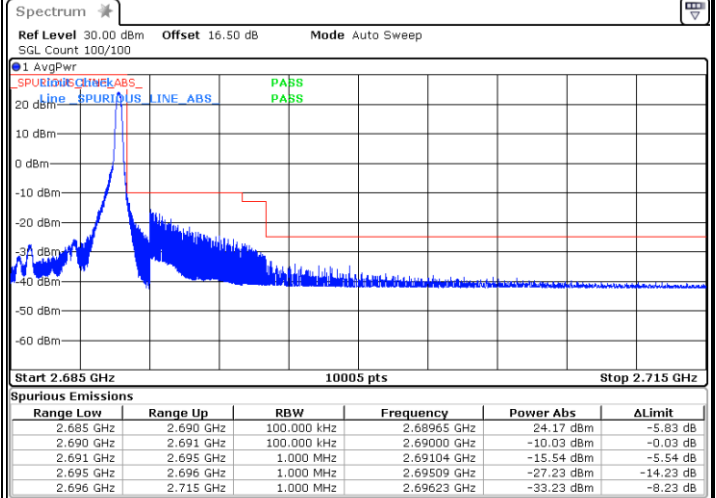
## LTE Band 41 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



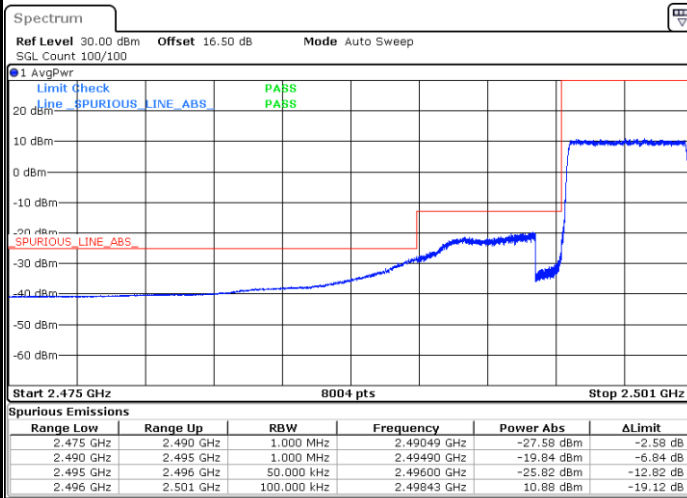
Date: 20.MAY.2024 10:34:42

### Highest Band Edge / 1 RB



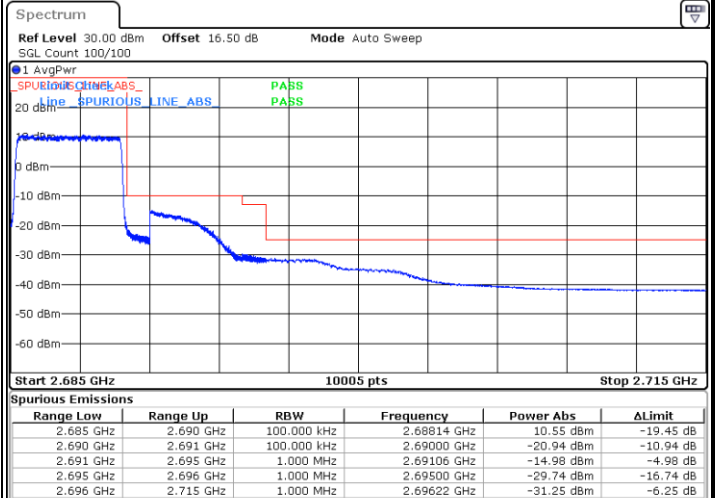
Date: 20.MAY.2024 12:08:44

### Lowest Band Edge / Full RB



Date: 20.MAY.2024 10:41:10

### Highest Band Edge / Full RB

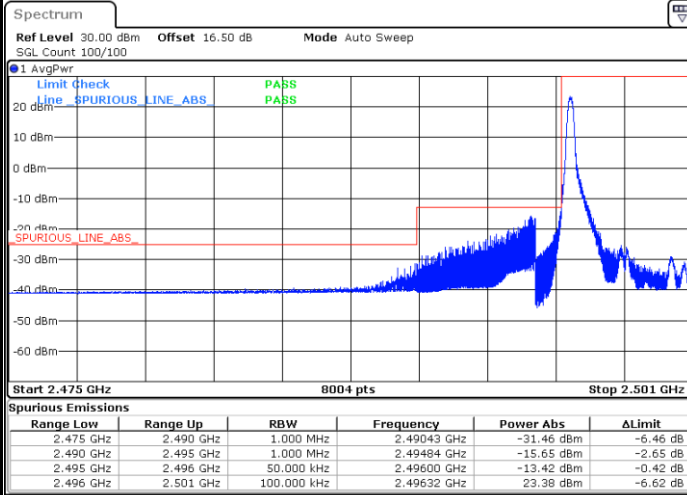


Date: 20.MAY.2024 10:48:41



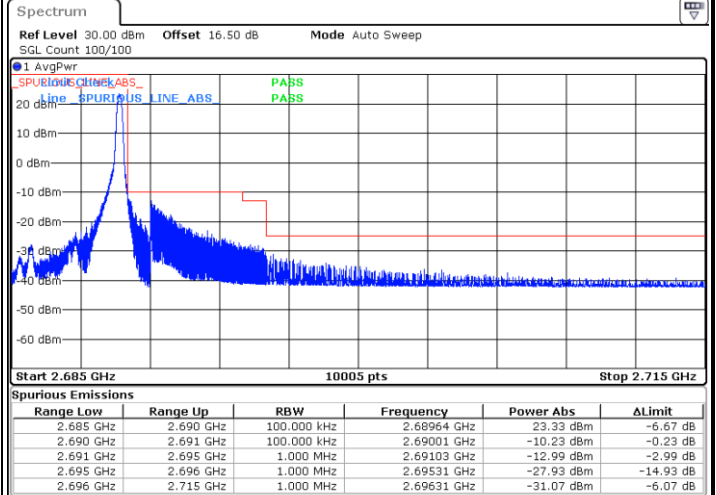
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



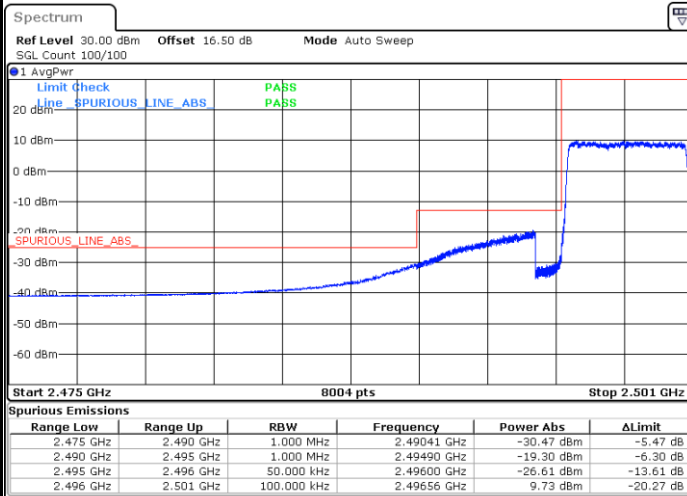
Date: 20.MAY.2024 10:35:36

Highest Band Edge / 1 RB



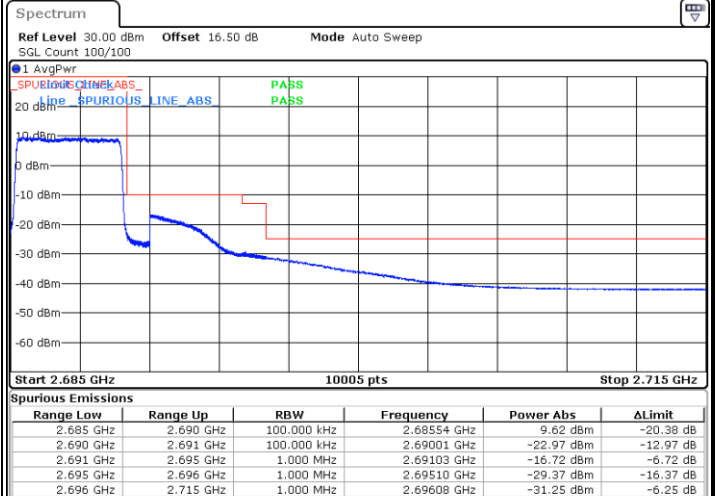
Date: 20.MAY.2024 11:49:12

Lowest Band Edge / Full RB



Date: 20.MAY.2024 10:42:04

Highest Band Edge / Full RB

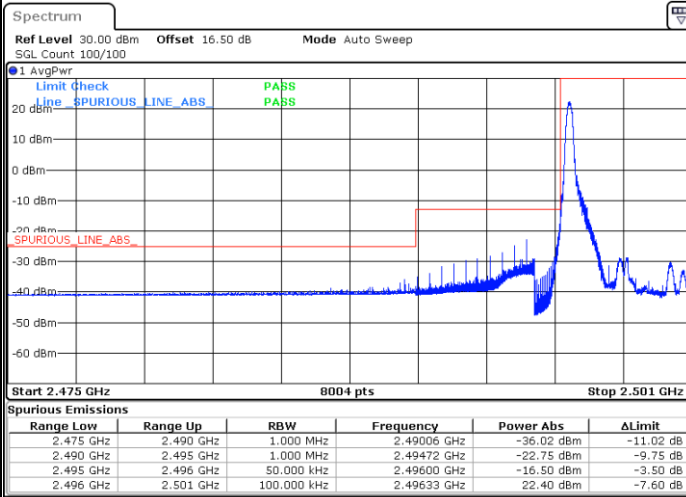


Date: 20.MAY.2024 10:49:48



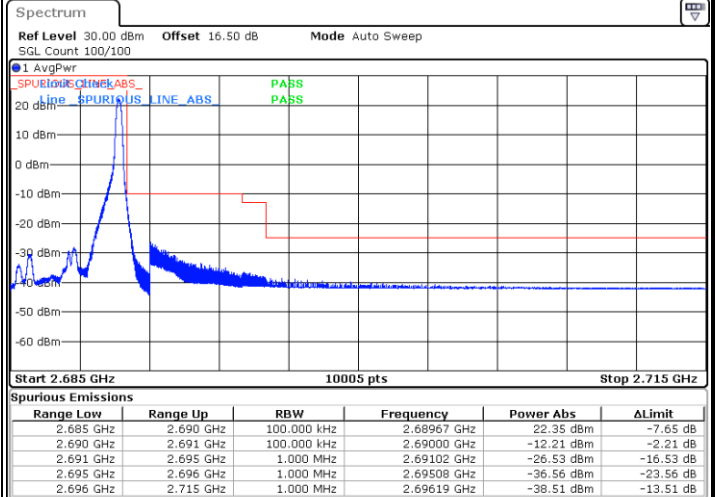
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



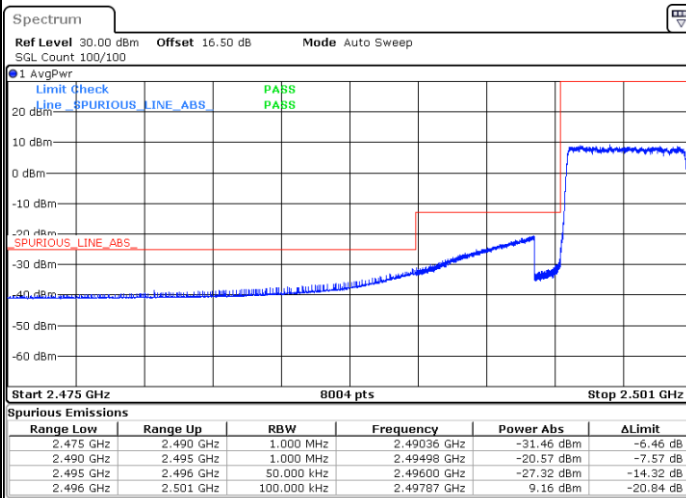
Date: 20.MAY.2024 10:36:30

Highest Band Edge / 1 RB



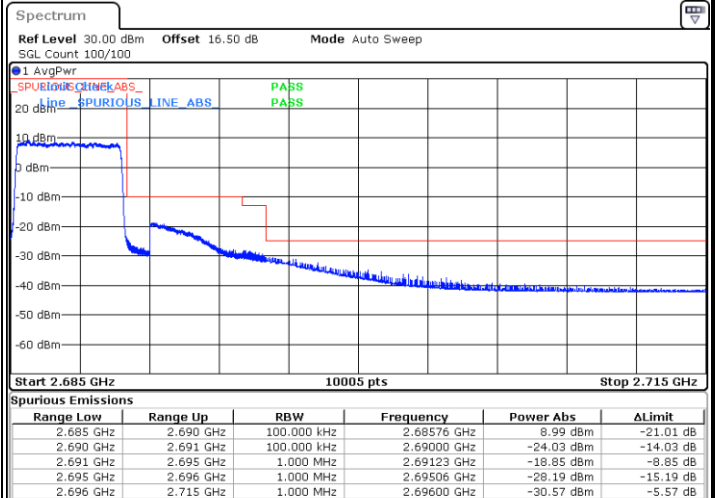
Date: 20.MAY.2024 10:55:21

Lowest Band Edge / Full RB



Date: 20.MAY.2024 10:42:58

Highest Band Edge / Full RB

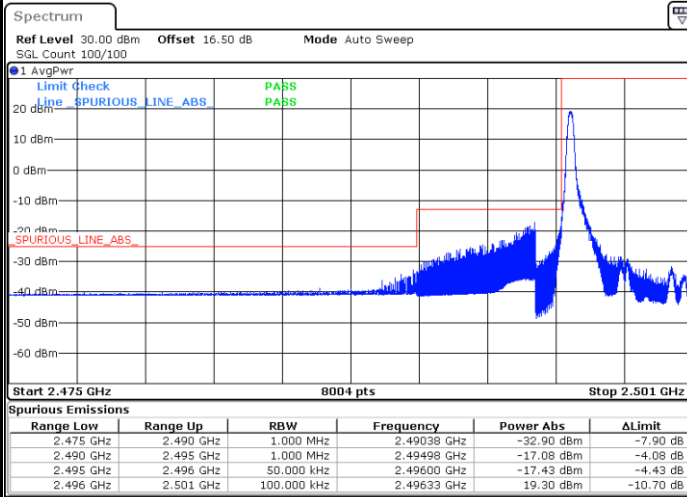


Date: 20.MAY.2024 10:50:54



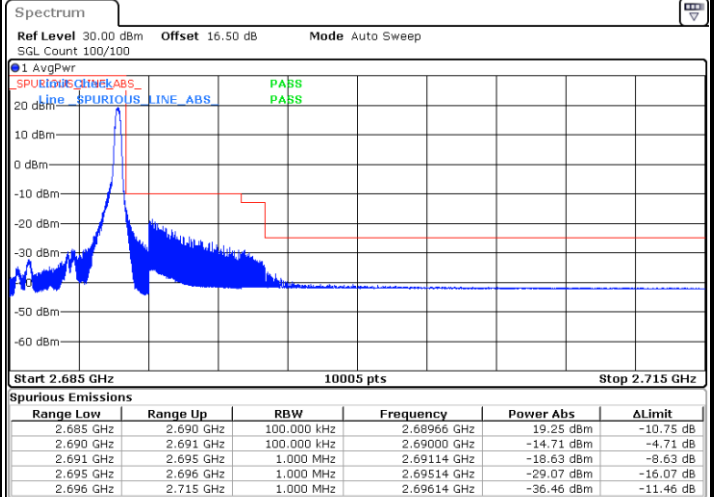
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



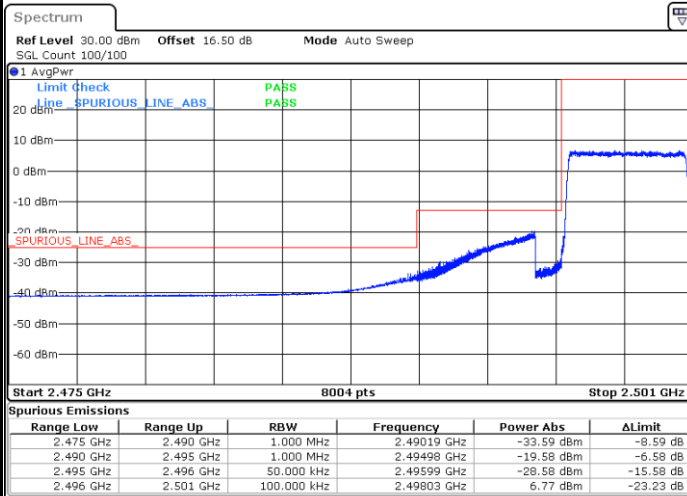
Date: 20.MAY.2024 10:37:25

Highest Band Edge / 1 RB



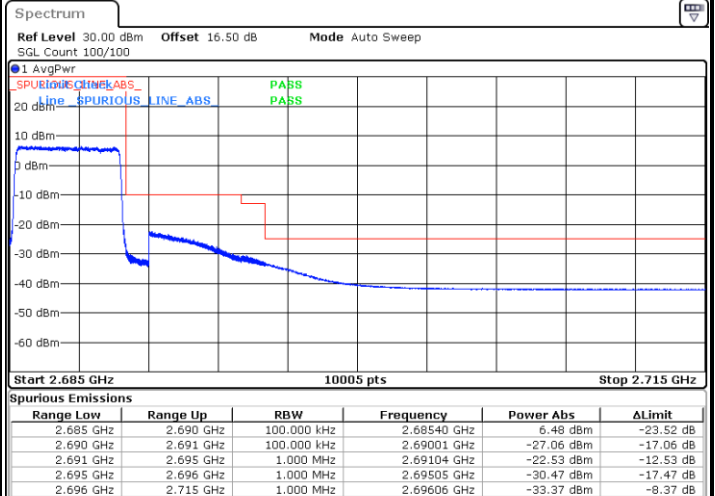
Date: 20.MAY.2024 10:56:28

Lowest Band Edge / Full RB



Date: 20.MAY.2024 10:43:52

Highest Band Edge / Full RB



Date: 20.MAY.2024 10:52:01