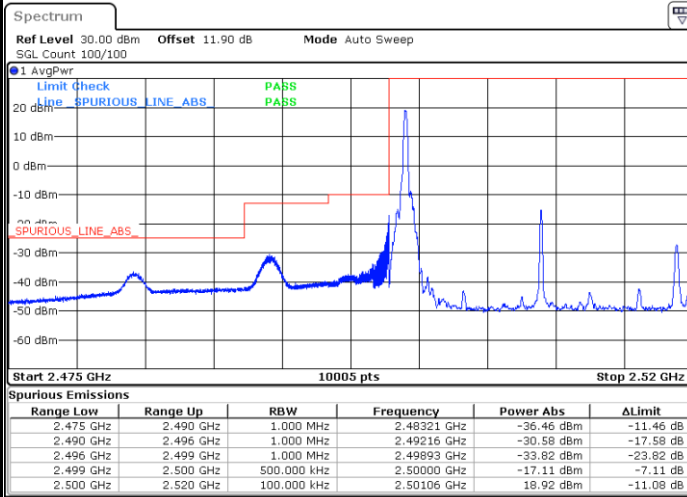




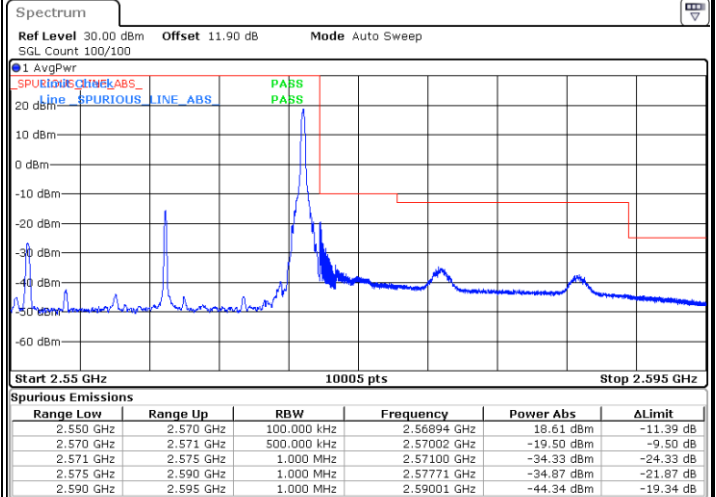
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



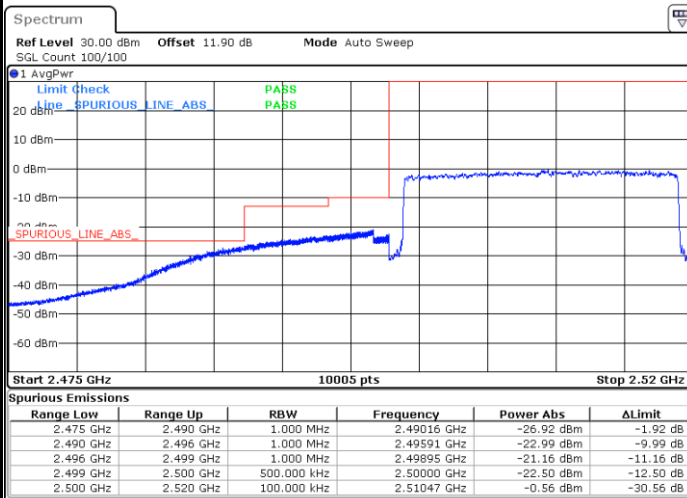
Date: 2.JUN.2021 12:11:52

Highest Band Edge / 1 RB



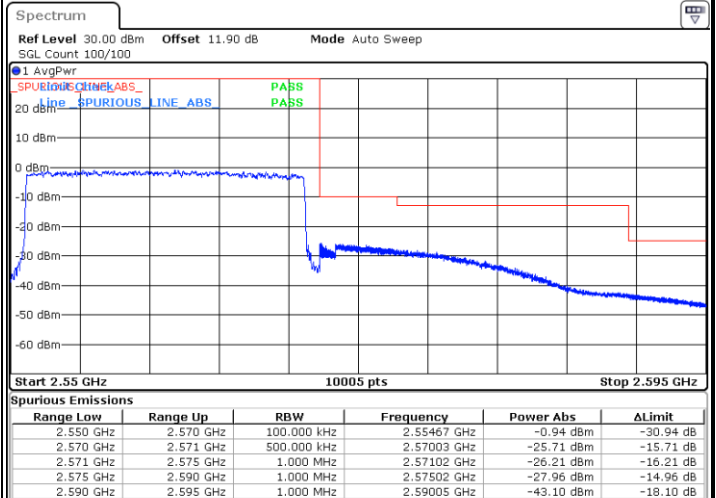
Date: 2.JUN.2021 12:17:04

Lowest Band Edge / Full RB



Date: 2.JUN.2021 12:12:45

Highest Band Edge / Full RB

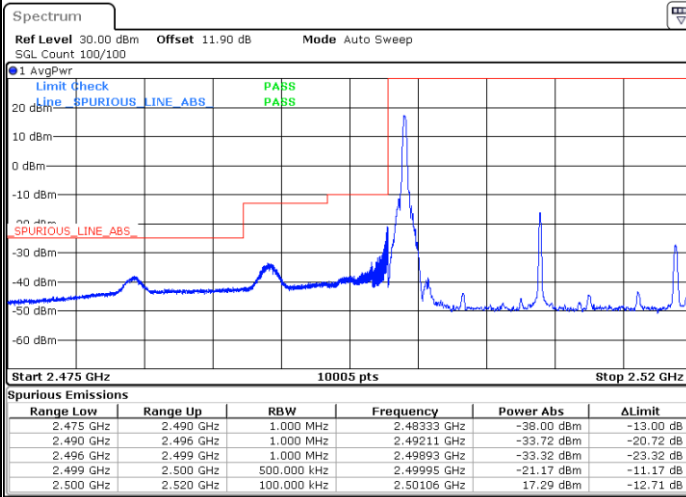


Date: 2.JUN.2021 12:17:30



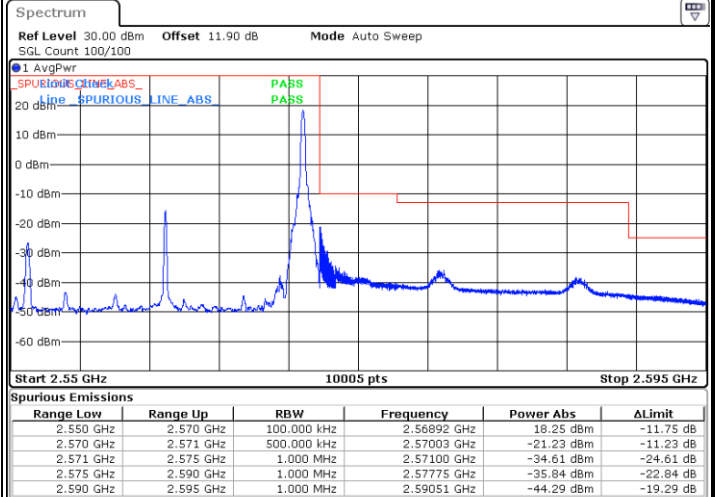
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



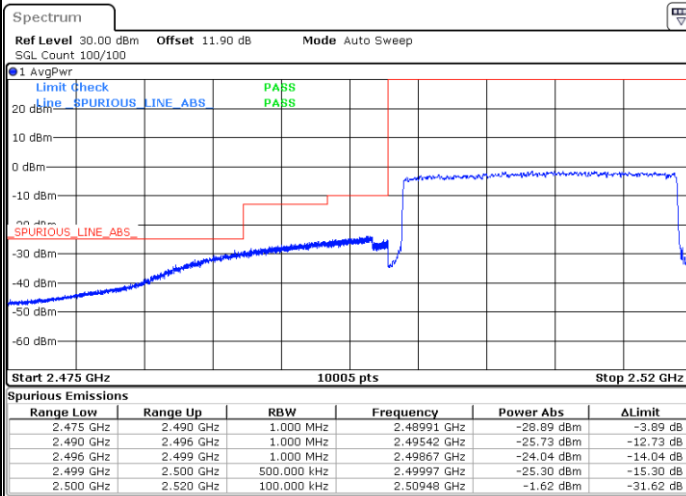
Date: 2 JUN.2021 12:19:22

Highest Band Edge / 1 RB



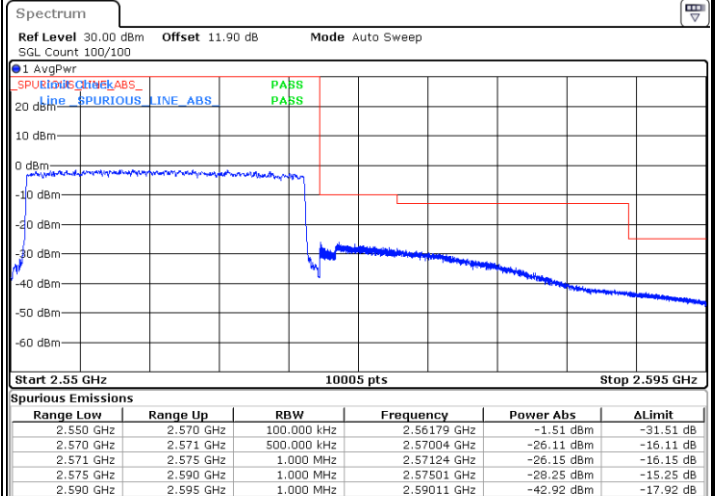
Date: 2 JUN.2021 12:20:57

Lowest Band Edge / Full RB



Date: 2 JUN.2021 12:19:48

Highest Band Edge / Full RB

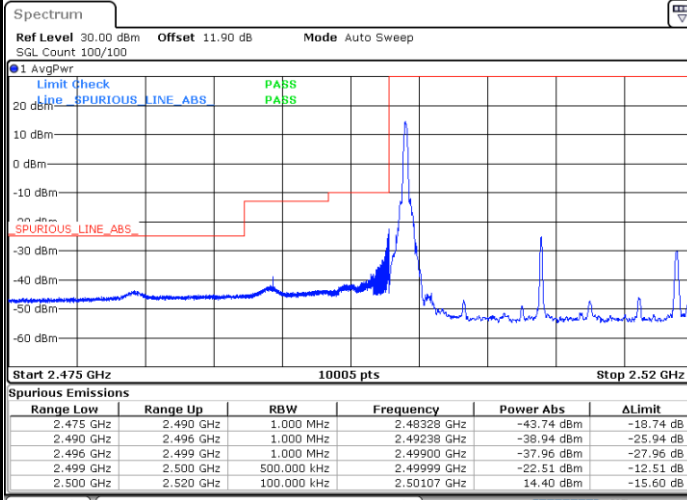


Date: 2 JUN.2021 12:21:23



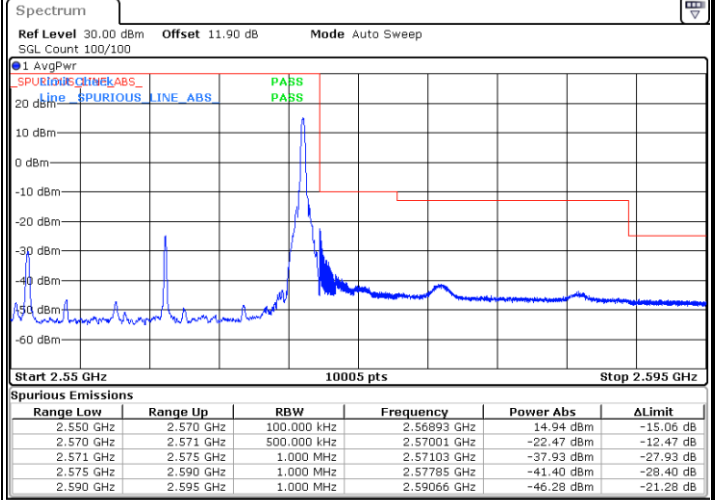
LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



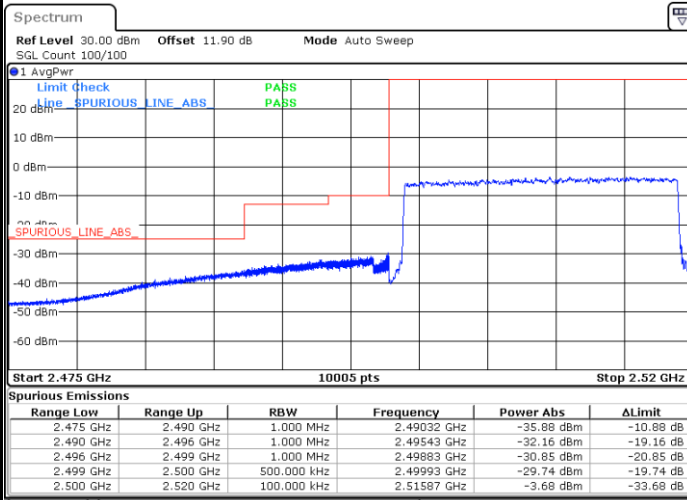
Date: 2.JUN.2021 19:02:15

Highest Band Edge / 1 RB



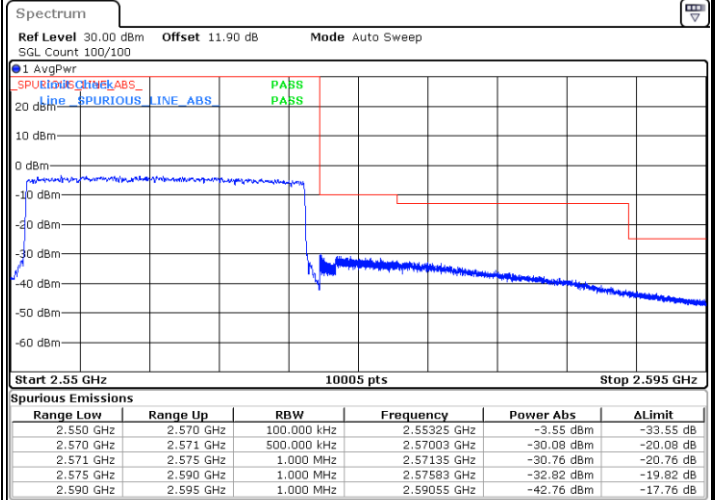
Date: 2.JUN.2021 19:04:48

Lowest Band Edge / Full RB



Date: 2.JUN.2021 19:03:02

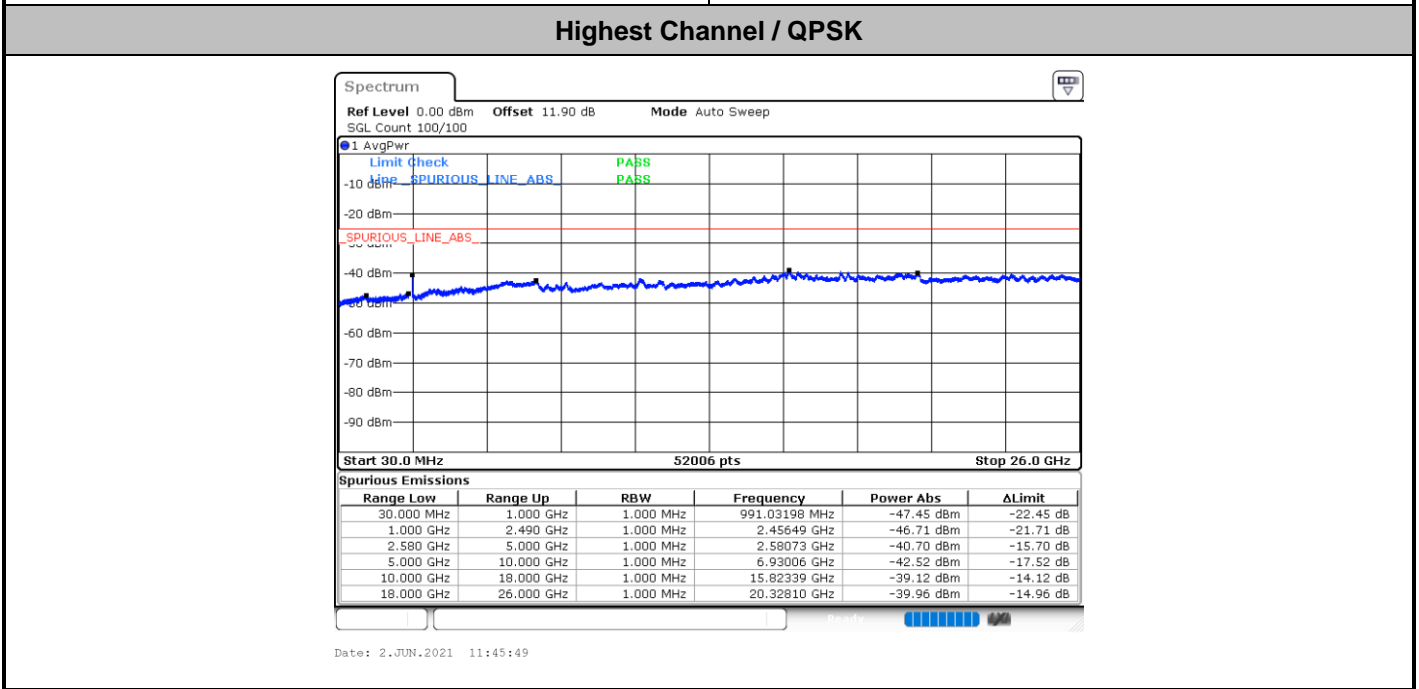
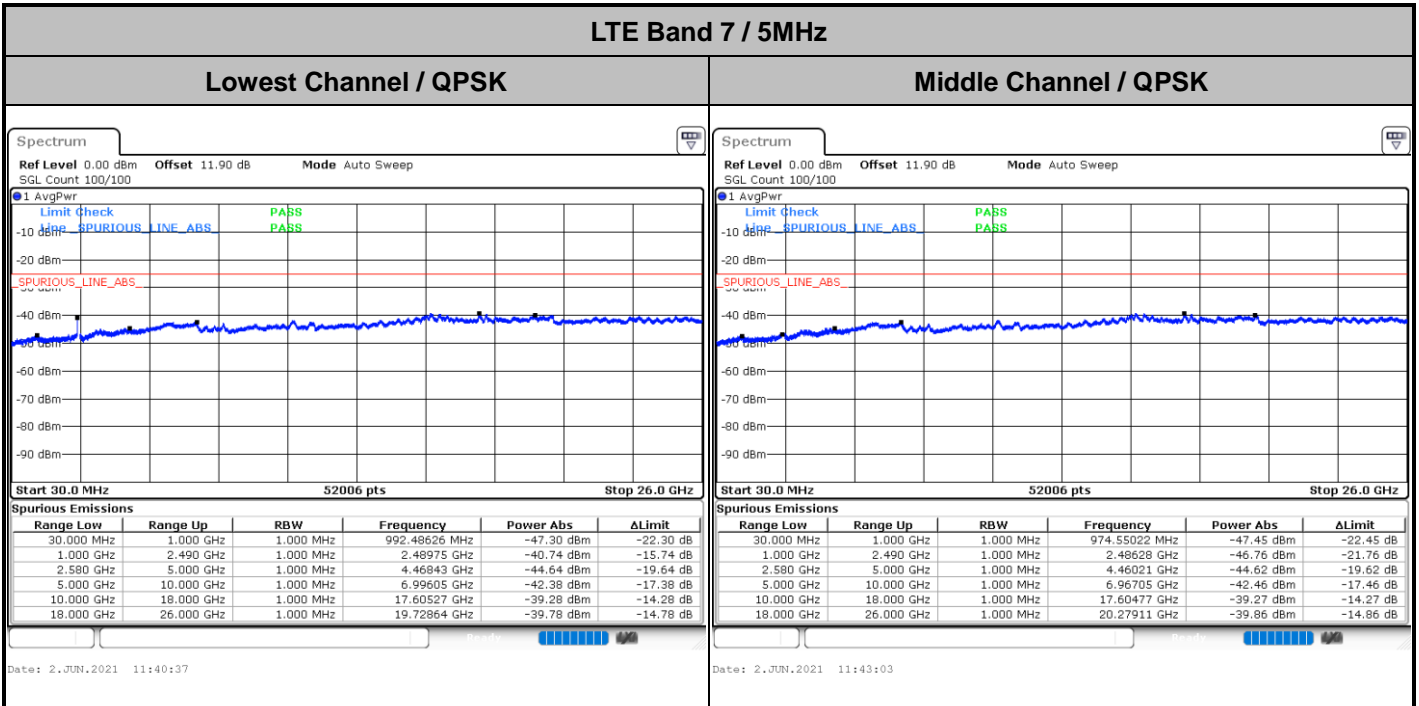
Highest Band Edge / Full RB



Date: 2.JUN.2021 19:05:34



# Conducted Spurious Emission

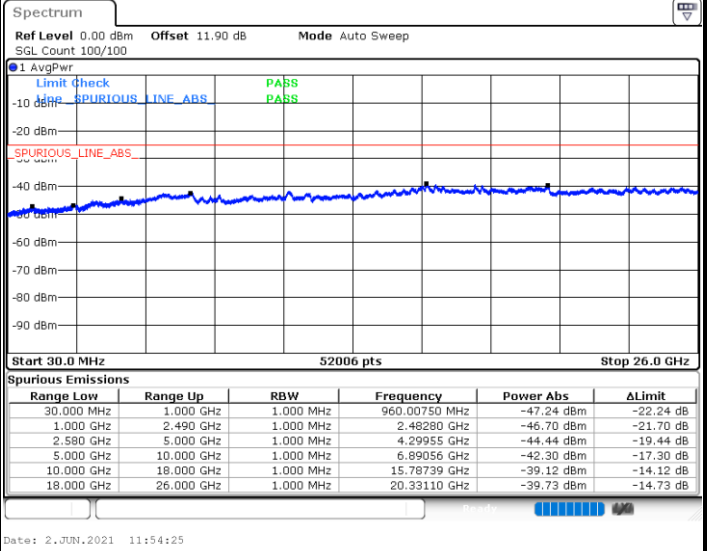
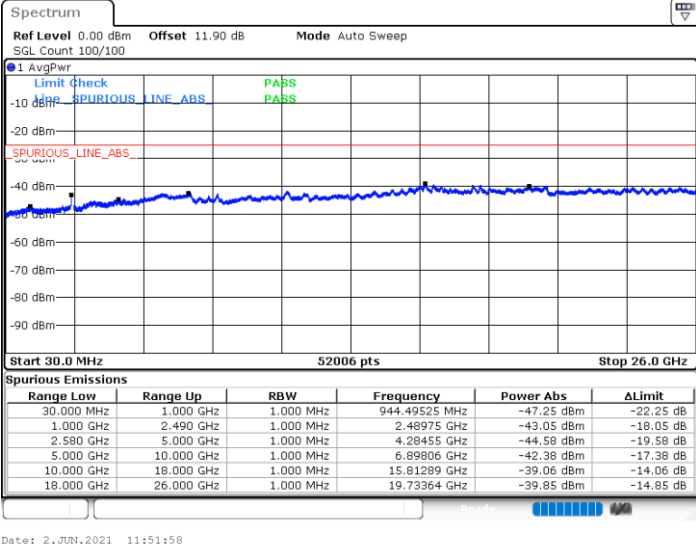




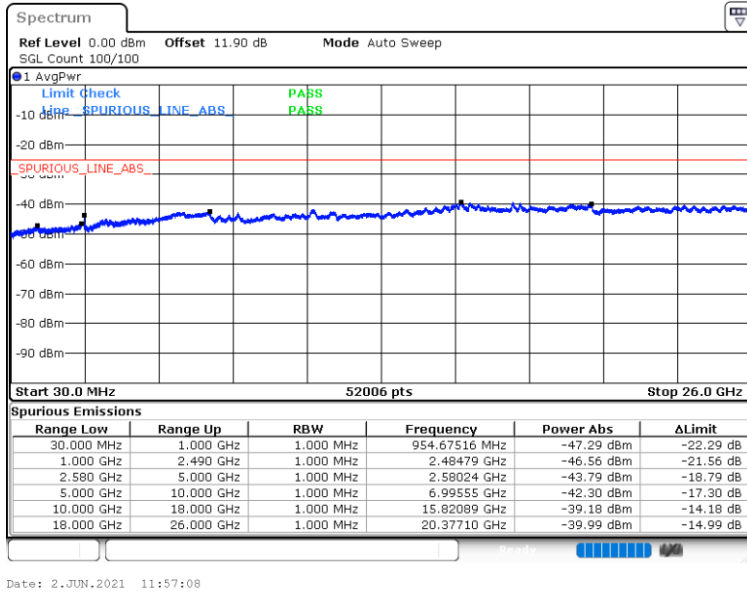
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

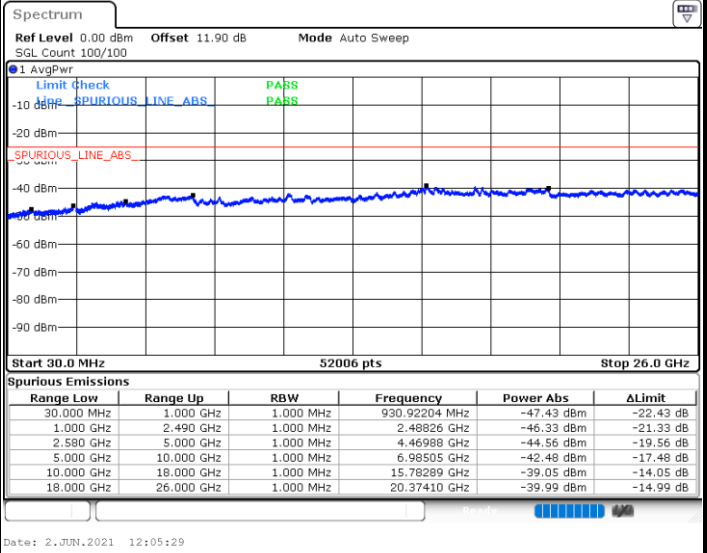
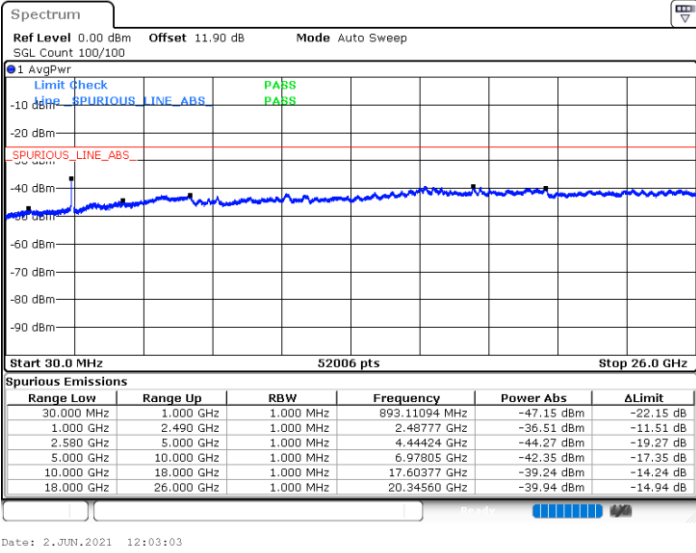




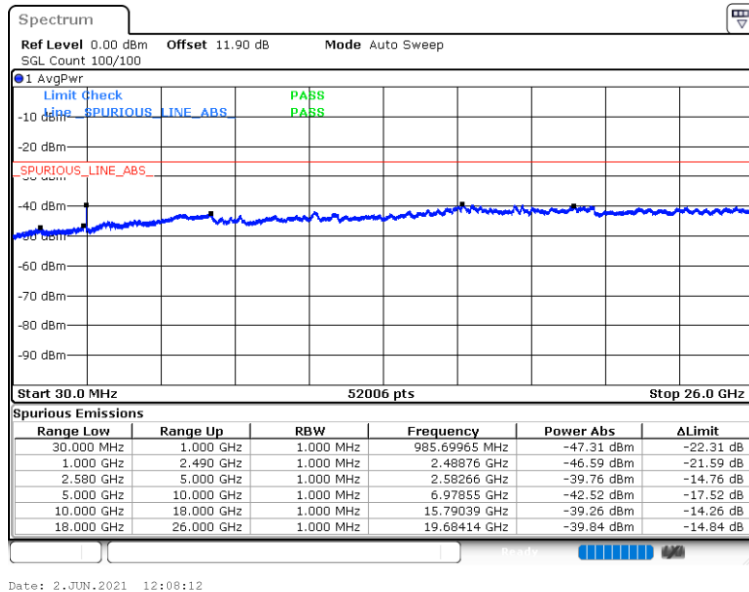
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

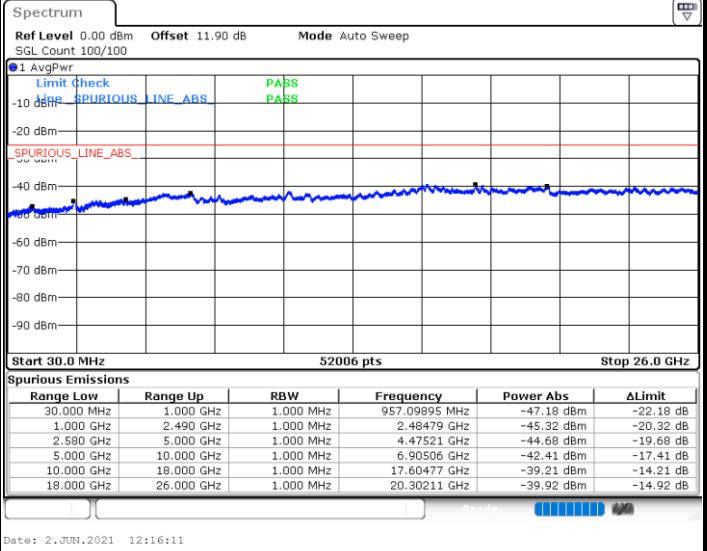
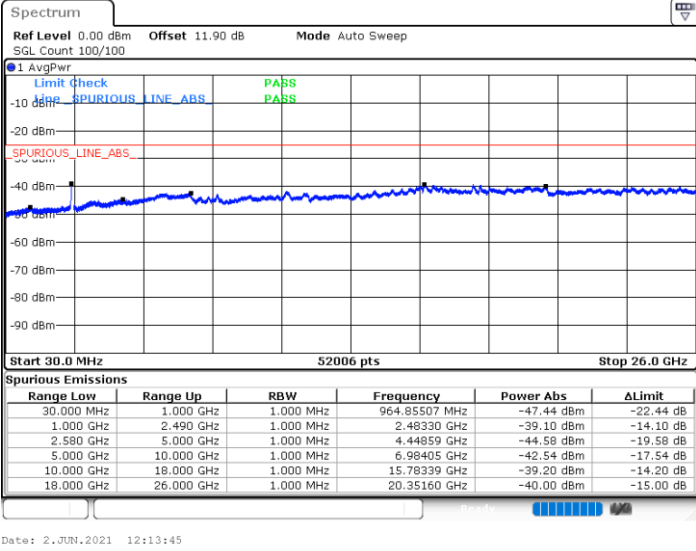




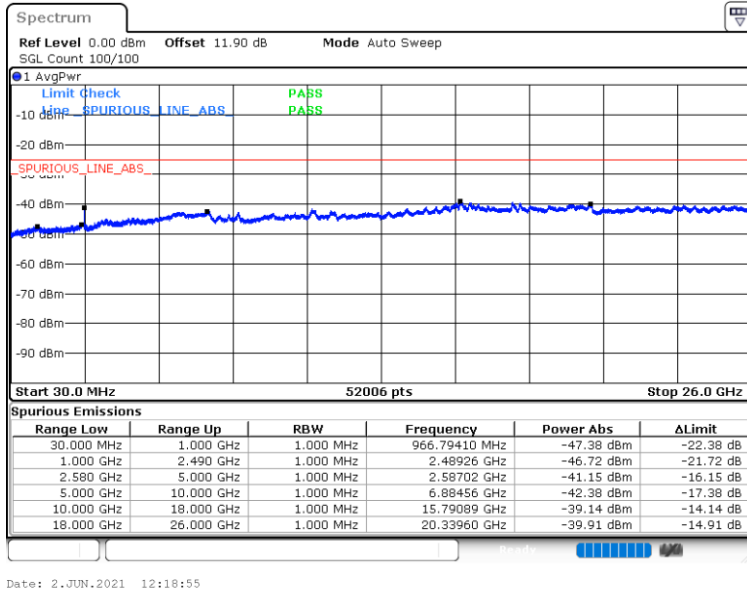
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





### 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	0.0015	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

**Note:**

- 1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 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	25.38	30.39	34.76
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.91	34.90	39.80	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.03	25.23	30.69	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.15	34.97	40.12	

Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.79	25.57	31.23	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.93	34.90	40.52	

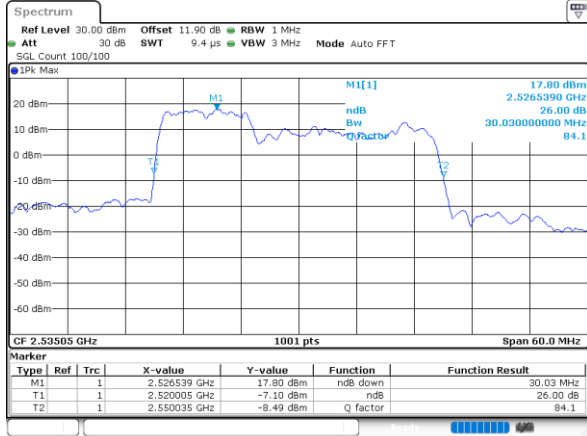
Mode	LTE Band 7C : 26dB BW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.97	25.77	30.69	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.97	39.96	



LTE Band 7C

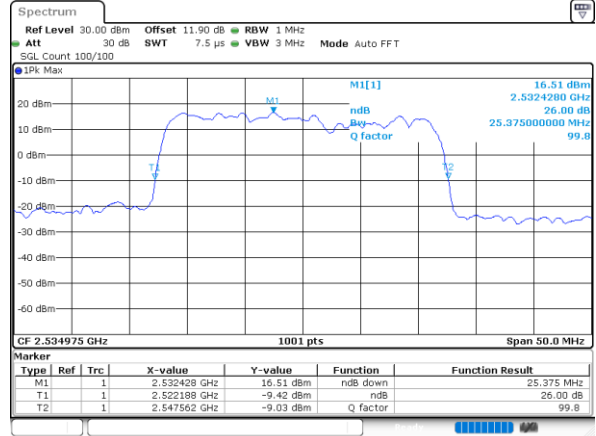
QPSK

Middle Channel / 10MHz+20MHz



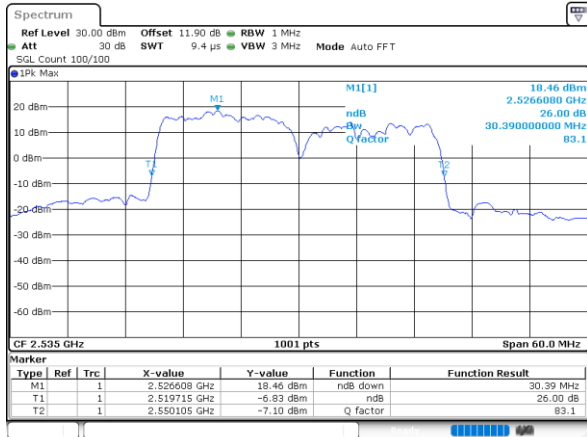
Date: 3 JUN 2021 11:22:03

Middle Channel / 15MHz+10MHz



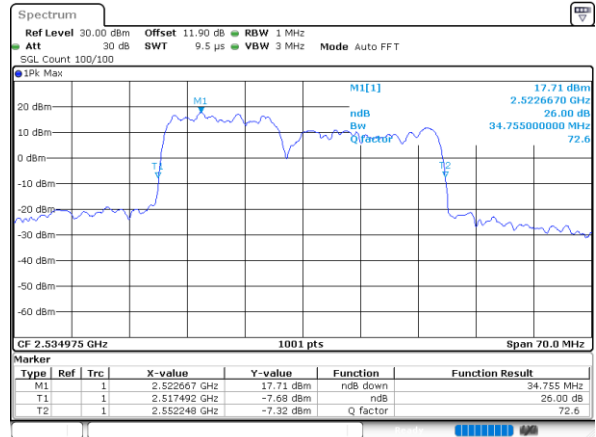
Date: 3 JUN 2021 15:36:50

Middle Channel / 15MHz+15MHz



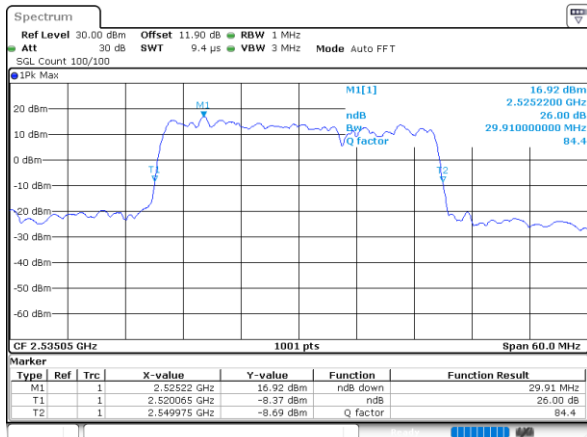
Date: 3 JUN 2021 14:09:06

Middle Channel / 15MHz+20MHz



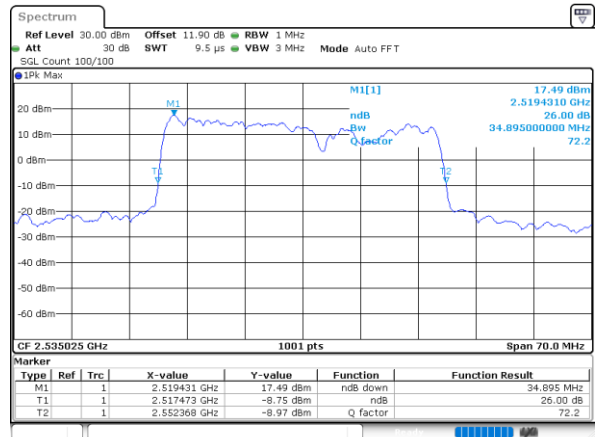
Date: 3 JUN 2021 14:38:33

Middle Channel / 20MHz+10MHz

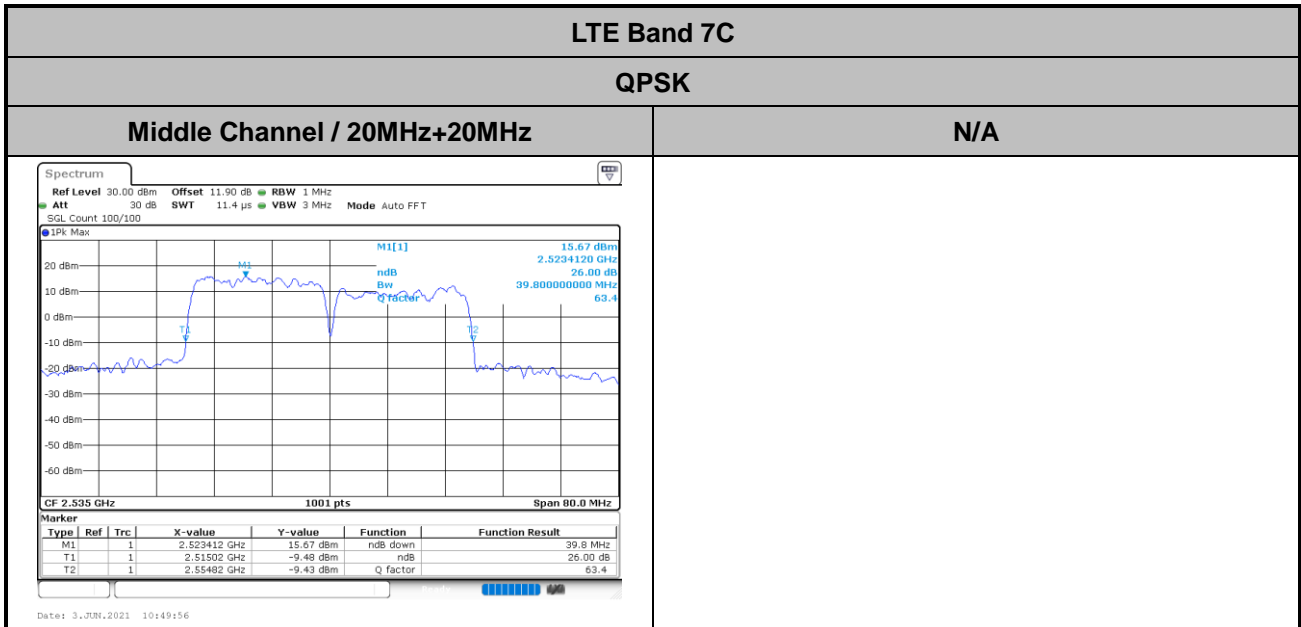


Date: 3 JUN 2021 11:50:59

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:08:25

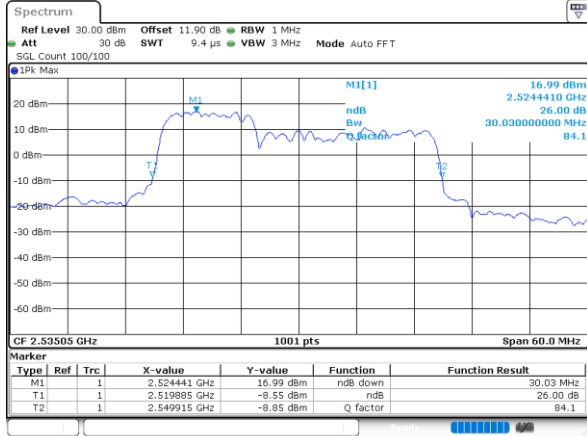




LTE Band 7C

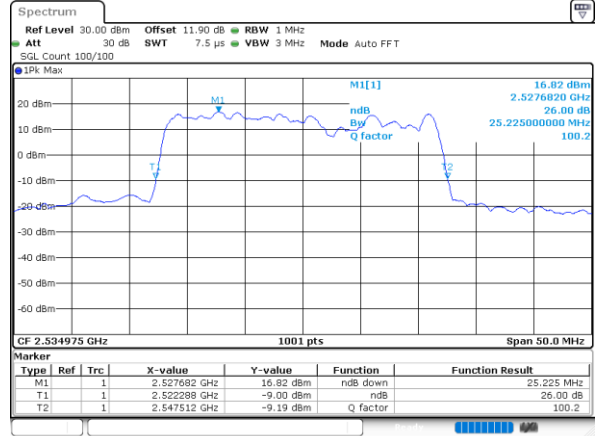
16QAM

Middle Channel / 10MHz+20MHz



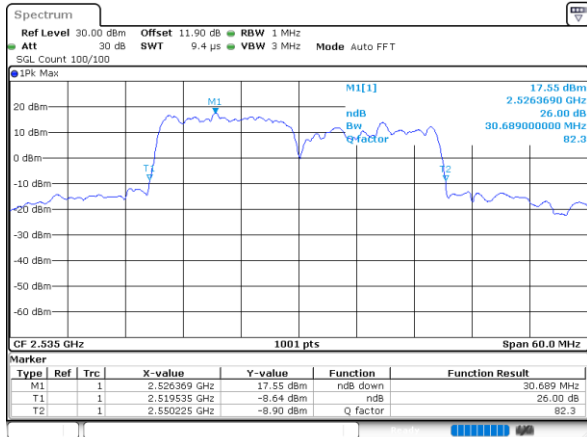
Date: 3 JUN 2021 11:21:36

Middle Channel / 15MHz+10MHz



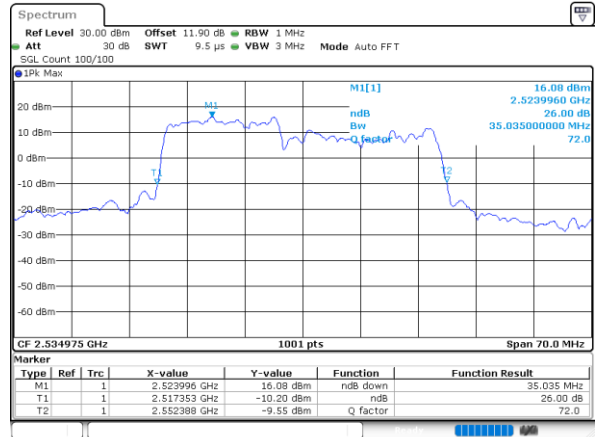
Date: 3 JUN 2021 15:36:22

Middle Channel / 15MHz+15MHz



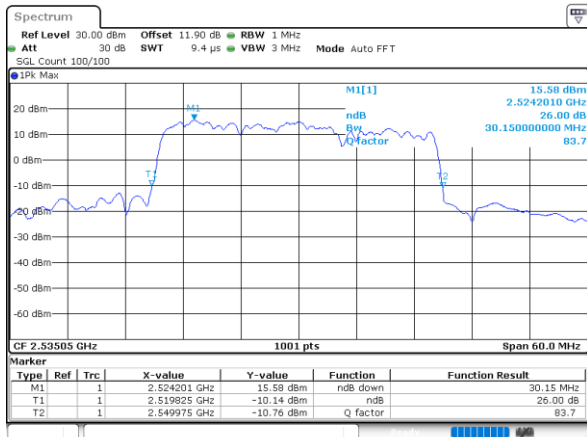
Date: 3 JUN 2021 14:08:39

Middle Channel / 15MHz+20MHz



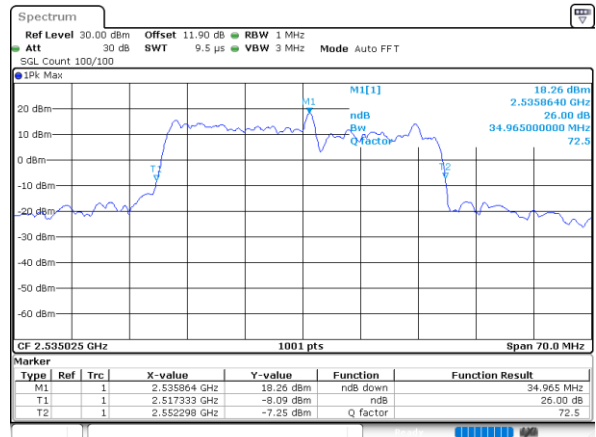
Date: 3 JUN 2021 14:38:06

Middle Channel / 20MHz+10MHz

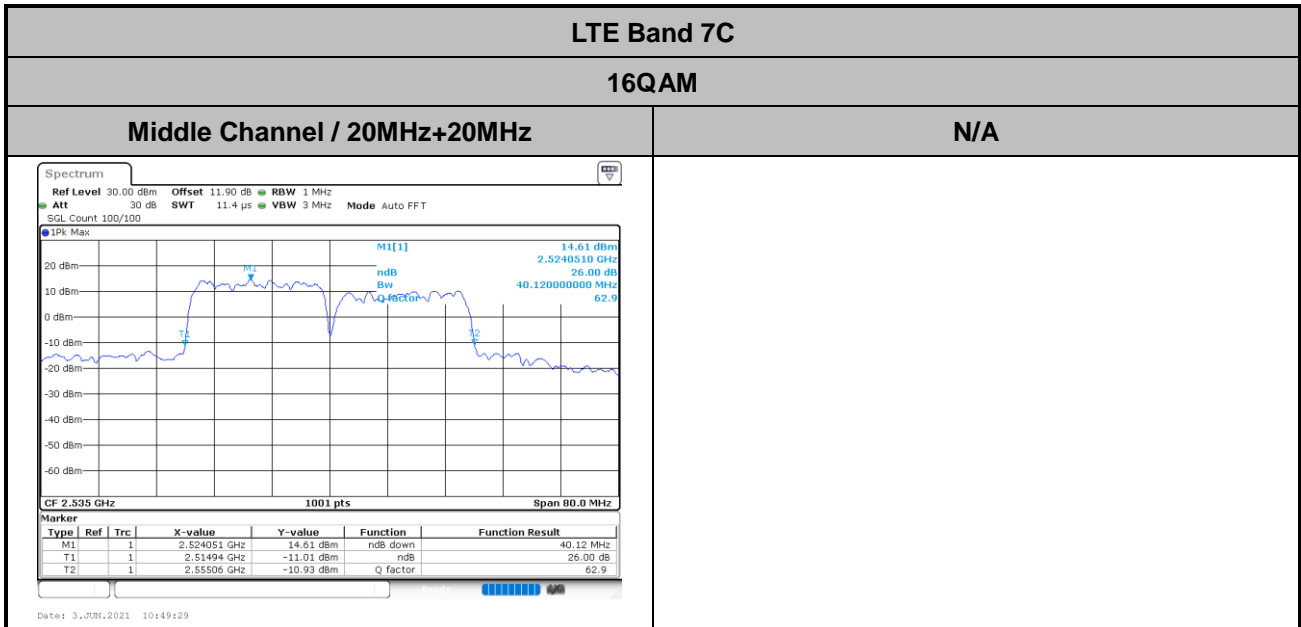


Date: 3 JUN 2021 11:50:31

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:07:58

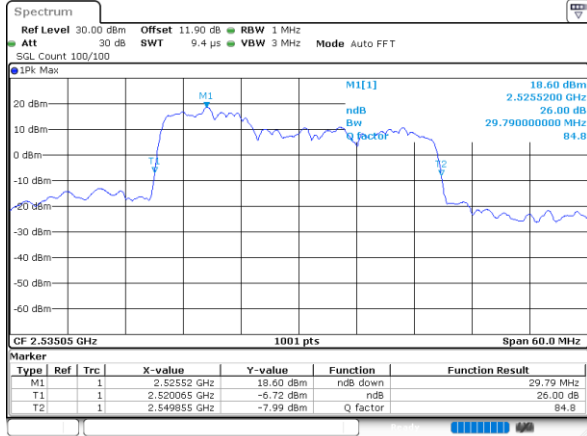




LTE Band 7C

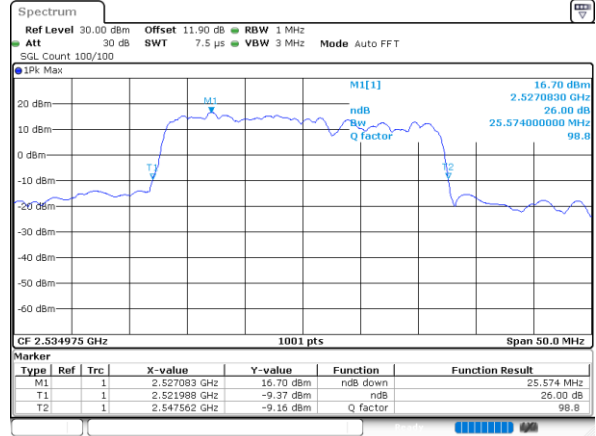
64QAM

Middle Channel / 10MHz+20MHz



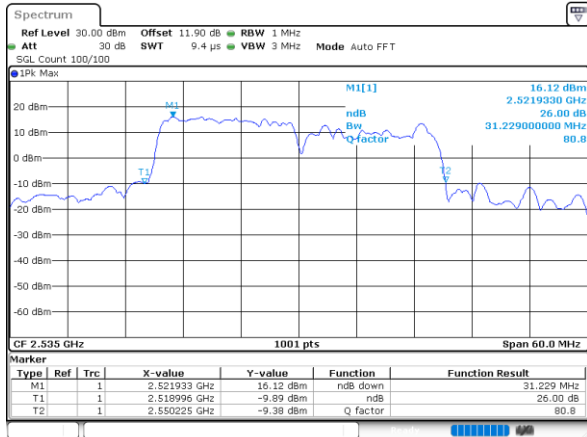
Date: 3 JUN 2021 11:21:08

Middle Channel / 15MHz+10MHz



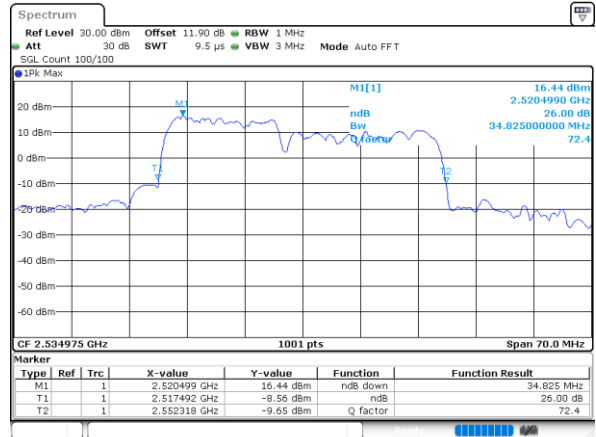
Date: 3 JUN 2021 15:35:55

Middle Channel / 15MHz+15MHz



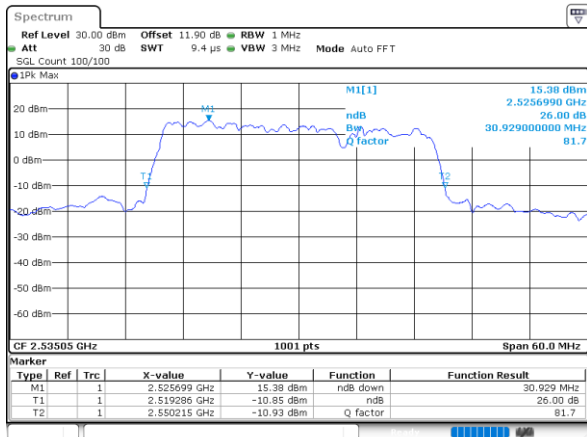
Date: 3 JUN 2021 14:08:11

Middle Channel / 15MHz+20MHz



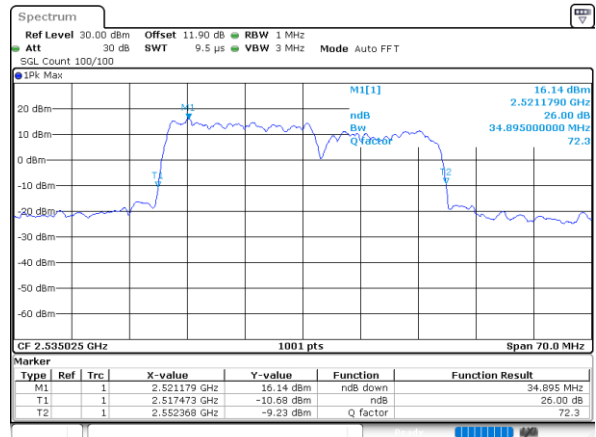
Date: 3 JUN 2021 14:37:38

Middle Channel / 20MHz+10MHz

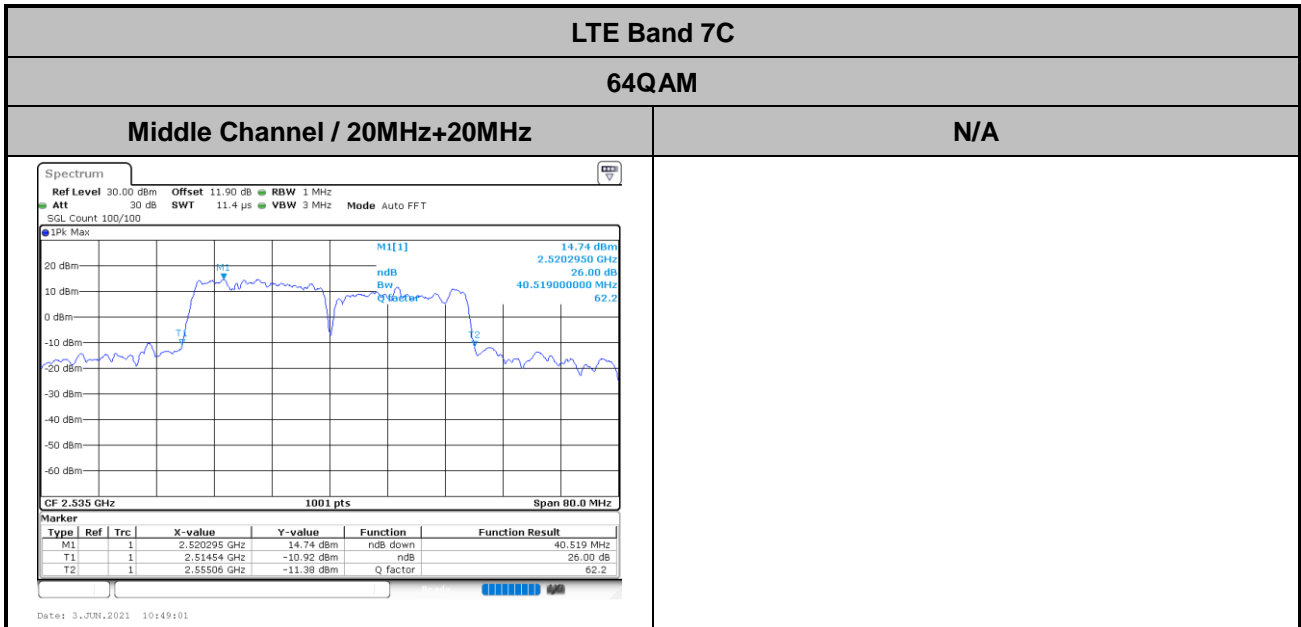


Date: 3 JUN 2021 11:50:04

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:07:30

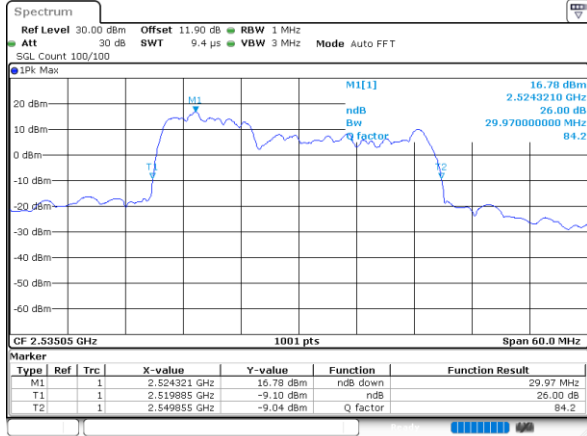




LTE Band 7C

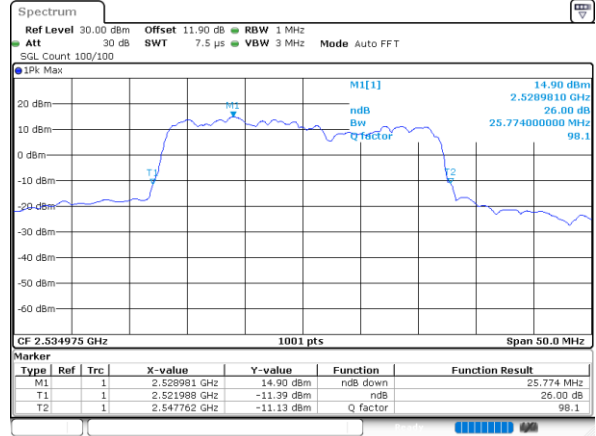
256QAM

Middle Channel / 10MHz+20MHz



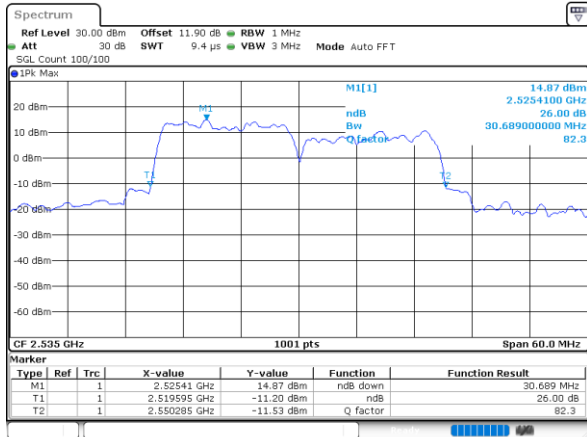
Date: 3 JUN 2021 11:25:18

Middle Channel / 15MHz+10MHz



Date: 3 JUN 2021 15:40:41

Middle Channel / 15MHz+15MHz



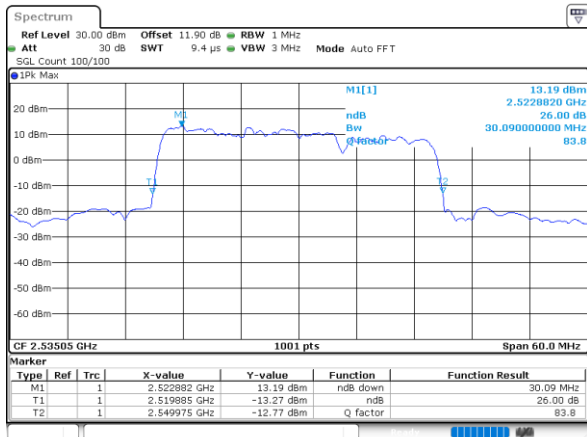
Date: 3 JUN 2021 14:12:48

Middle Channel / 15MHz+20MHz



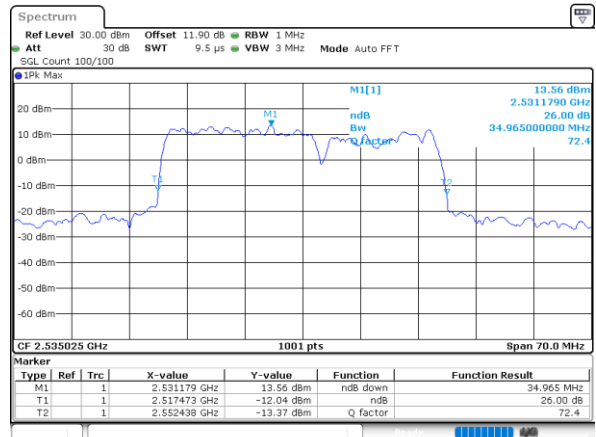
Date: 3 JUN 2021 14:43:01

Middle Channel / 20MHz+10MHz



Date: 3 JUN 2021 11:54:57

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:11:37



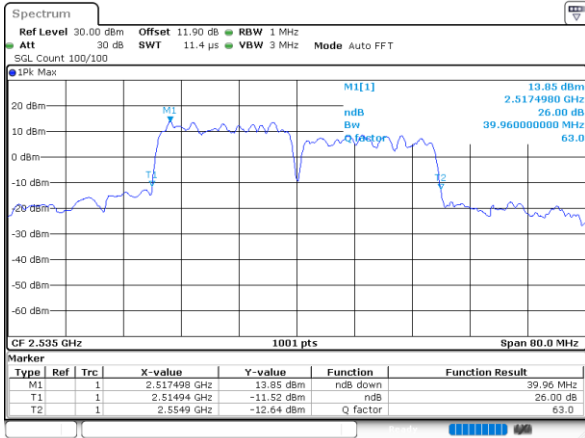


LTE Band 7C

256QAM

Middle Channel / 20MHz+20MHz

N/A





Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.99	23.33	28.59	32.94
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	32.94	37.96	

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.35	23.53	28.65	32.87
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.23	32.73	37.88	

Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.99	23.53	28.89	32.73
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	33.01	38.12	

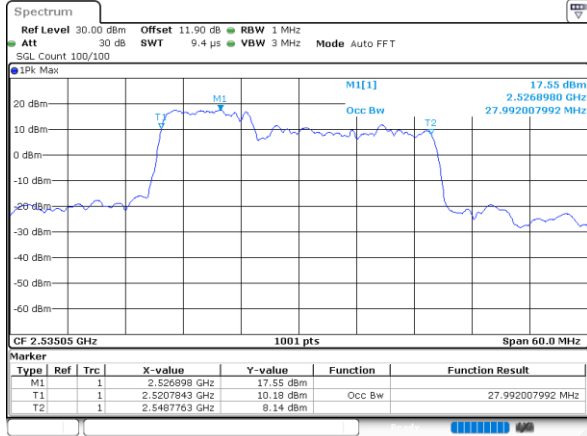
Mode	LTE Band 7C : 99%OBW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.11	23.53	28.83	33.22
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.17	32.80	37.96	



LTE Band 7C

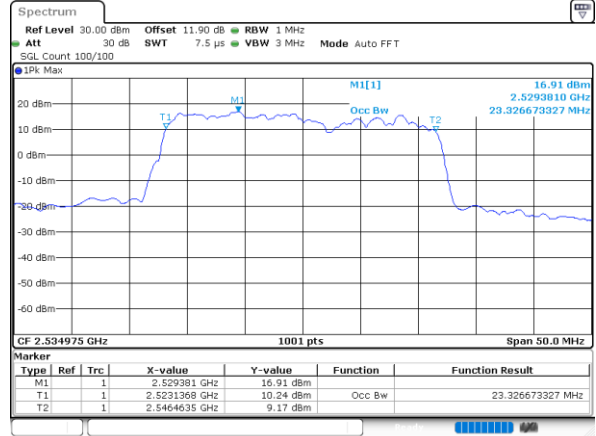
QPSK

Middle Channel / 10MHz+20MHz



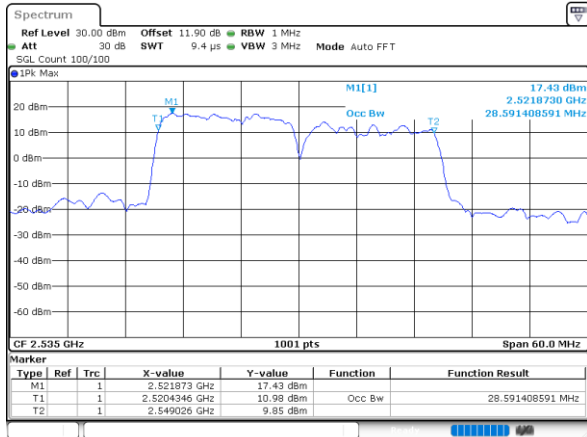
Date: 3 JUN 2021 11:19:42

Middle Channel / 15MHz+10MHz



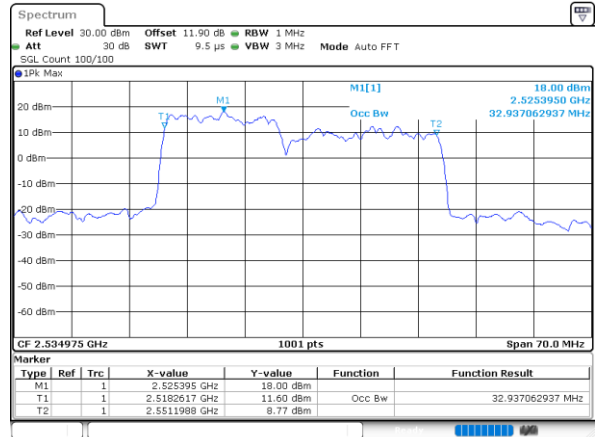
Date: 3 JUN 2021 15:14:28

Middle Channel / 15MHz+15MHz



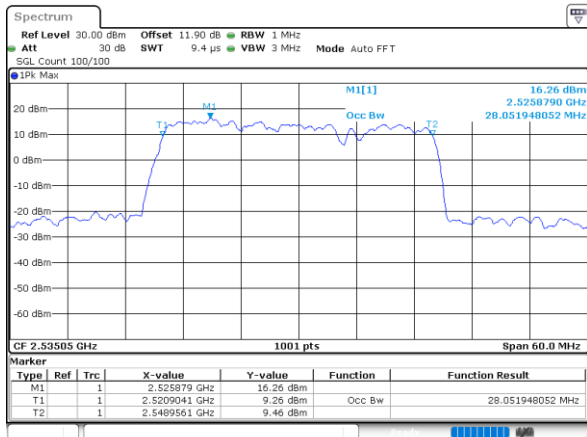
Date: 3 JUN 2021 14:06:44

Middle Channel / 15MHz+20MHz



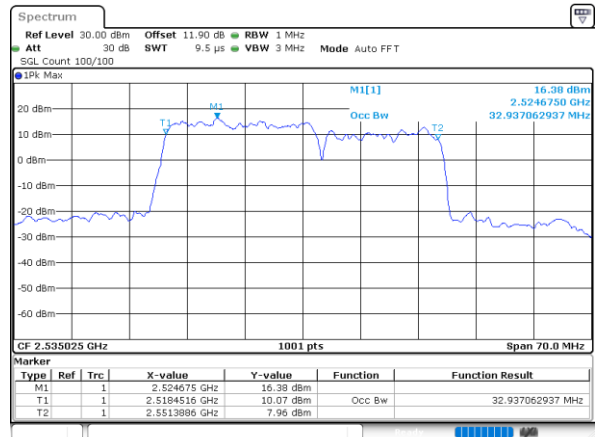
Date: 3 JUN 2021 14:36:11

Middle Channel / 20MHz+10MHz



Date: 3 JUN 2021 11:48:17

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:06:03

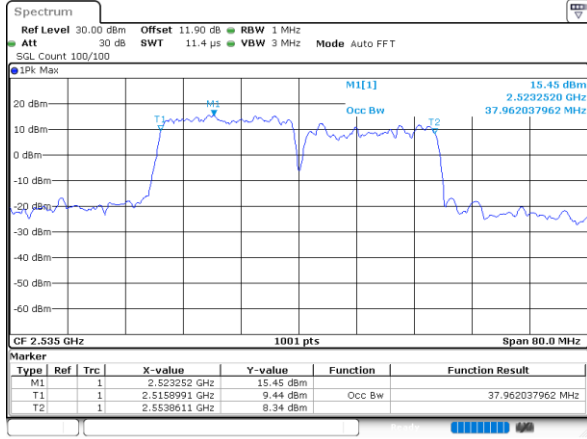


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



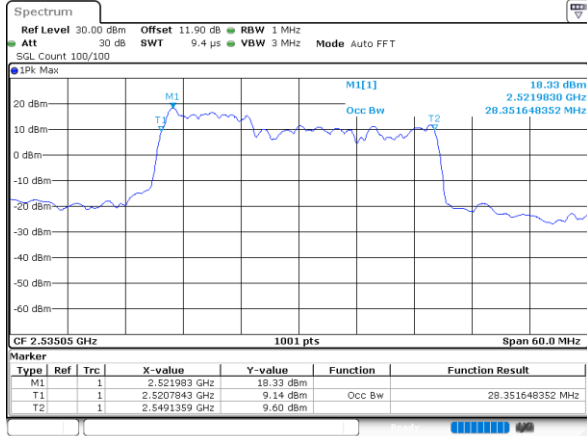
Date: 3 JUN 2023 10:47:34



LTE Band 7C

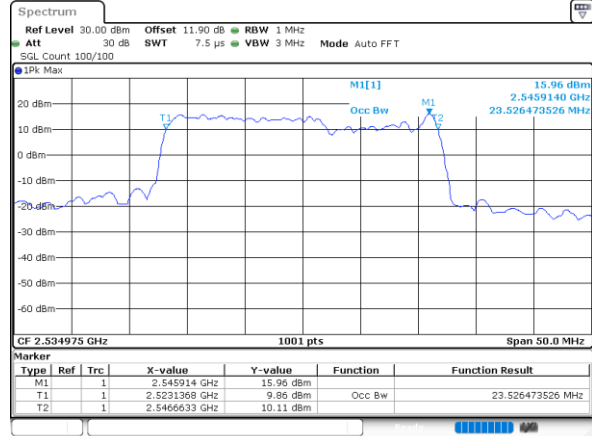
16QAM

Middle Channel / 10MHz+20MHz



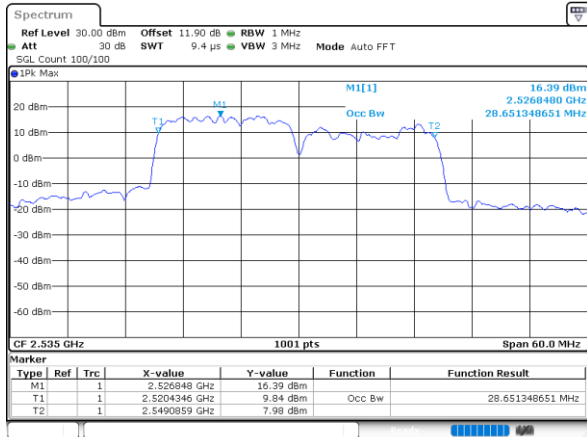
Date: 3 JUN 2021 11:20:11

Middle Channel / 15MHz+10MHz



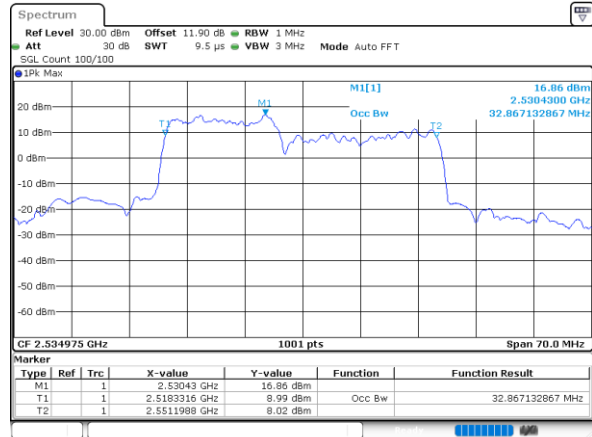
Date: 3 JUN 2021 15:34:57

Middle Channel / 15MHz+15MHz



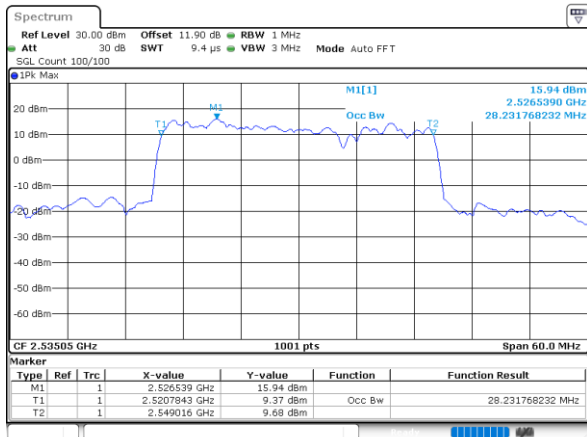
Date: 3 JUN 2021 14:07:13

Middle Channel / 15MHz+20MHz



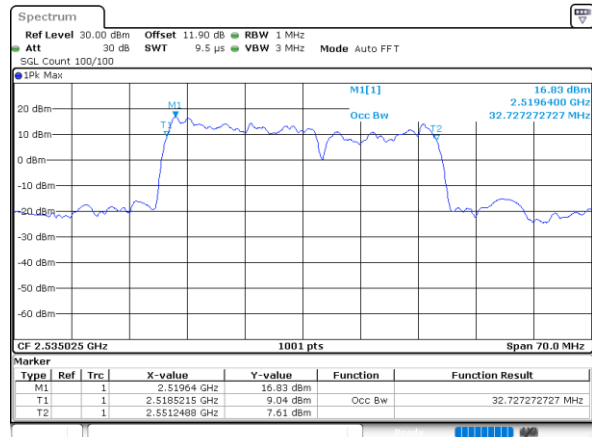
Date: 3 JUN 2021 14:36:40

Middle Channel / 20MHz+10MHz



Date: 3 JUN 2021 11:49:06

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:06:33

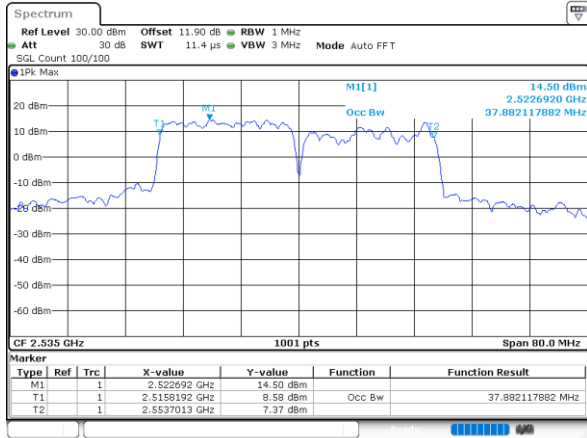


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A

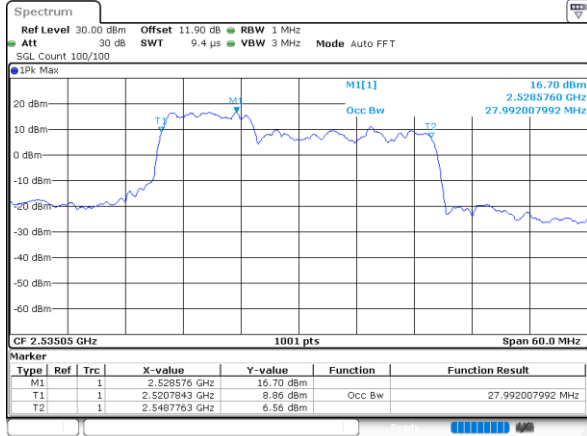




LTE Band 7C

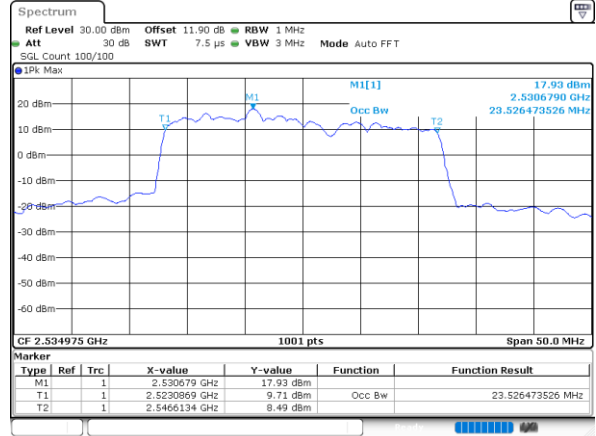
64QAM

Middle Channel / 10MHz+20MHz



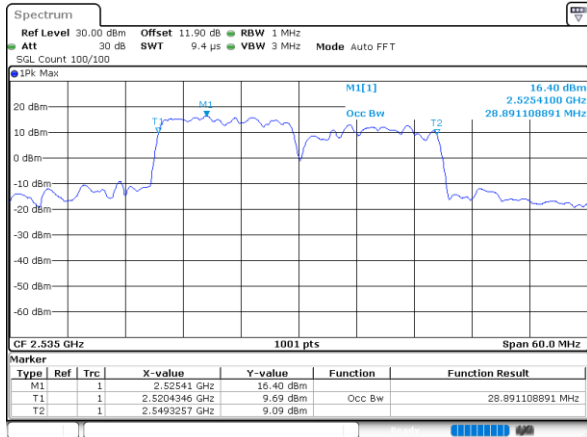
Date: 3 JUN 2021 11:20:40

Middle Channel / 15MHz+10MHz



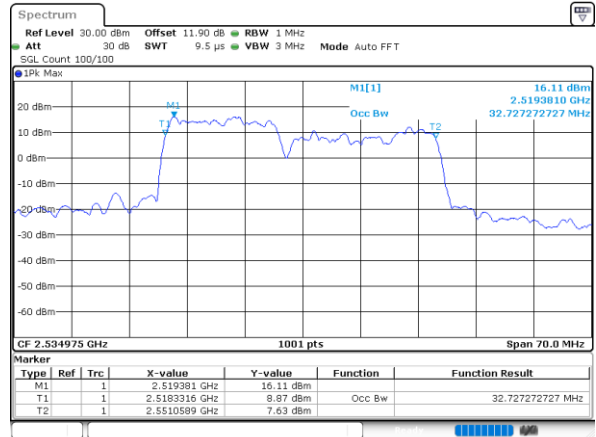
Date: 3 JUN 2021 15:35:26

Middle Channel / 15MHz+15MHz



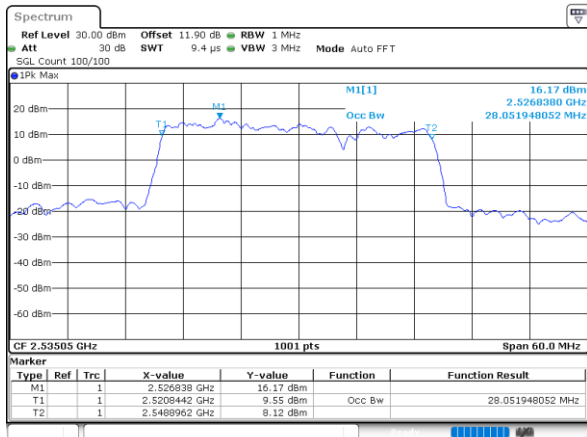
Date: 3 JUN 2021 14:07:42

Middle Channel / 15MHz+20MHz



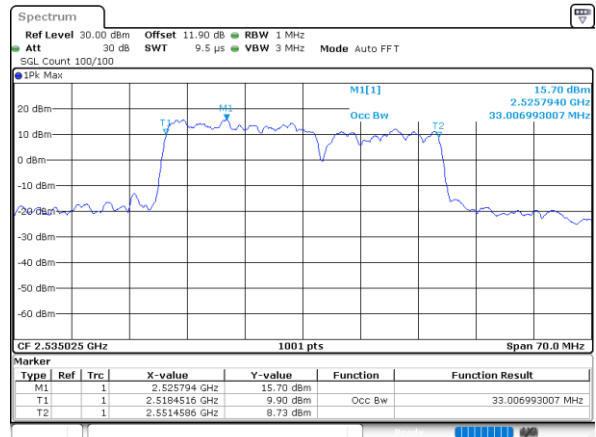
Date: 3 JUN 2021 14:37:10

Middle Channel / 20MHz+10MHz



Date: 3 JUN 2021 11:49:35

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:07:02

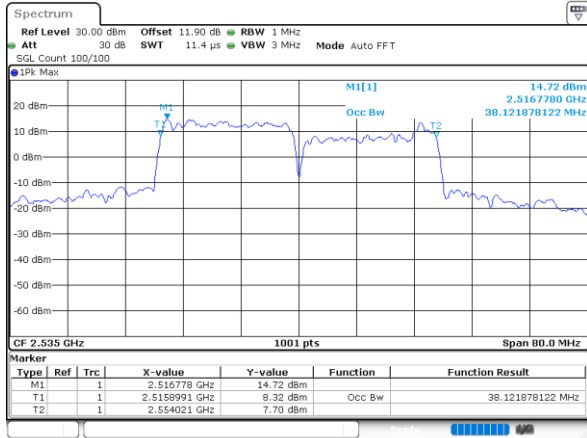


LTE Band 7C

64QAM

Middle Channel / 20MHz+20MHz

N/A



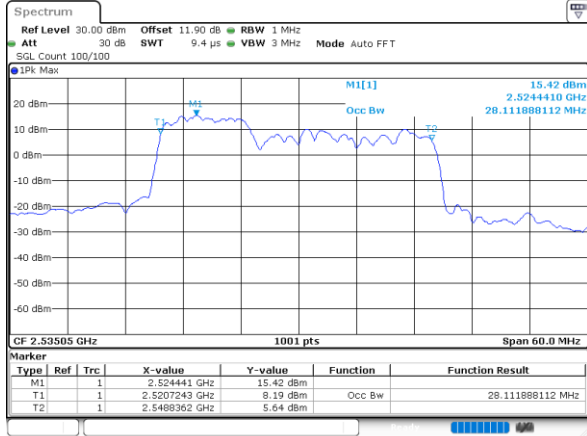




LTE Band 7C

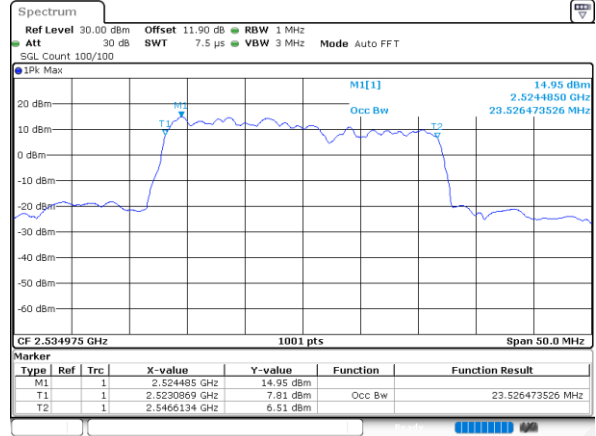
256QAM

Middle Channel / 10MHz+20MHz



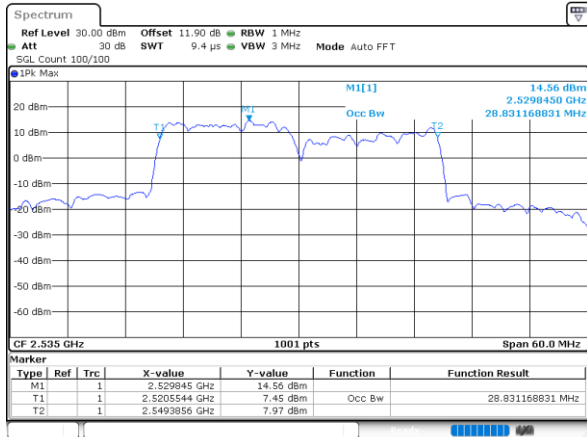
Date: 3 JUN 2021 11:24:51

Middle Channel / 15MHz+10MHz



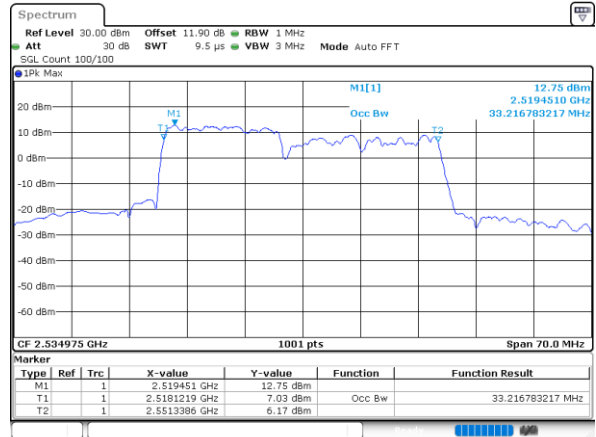
Date: 3 JUN 2021 15:41:15

Middle Channel / 15MHz+15MHz



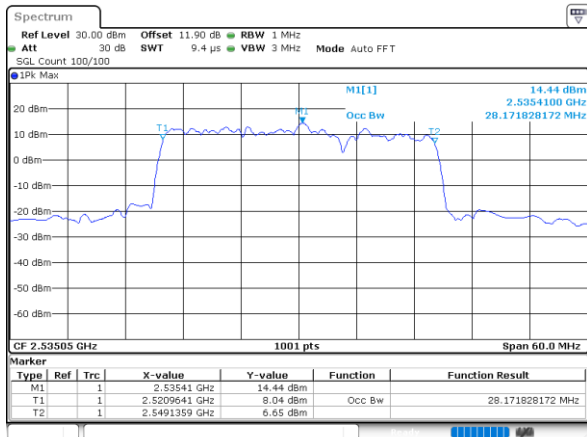
Date: 3 JUN 2021 14:12:20

Middle Channel / 15MHz+20MHz



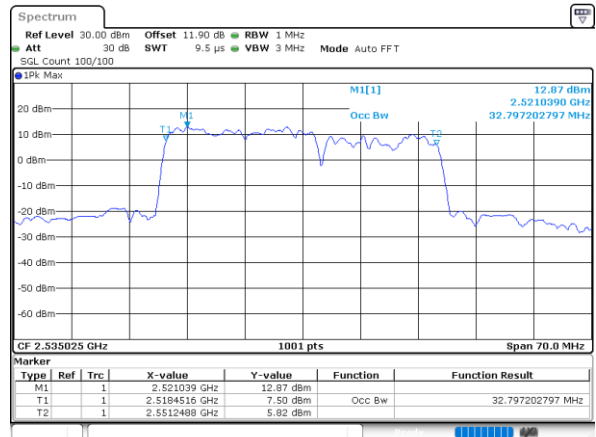
Date: 3 JUN 2021 14:41:57

Middle Channel / 20MHz+10MHz



Date: 3 JUN 2021 11:53:46

Middle Channel / 20MHz+15MHz



Date: 3 JUN 2021 15:11:11

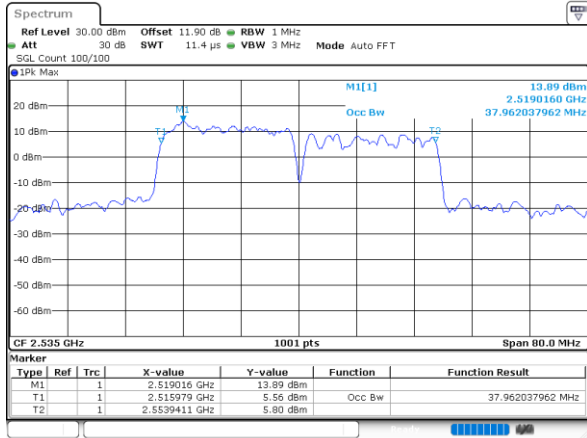


LTE Band 7C

256QAM

Middle Channel / 20MHz+20MHz

N/A



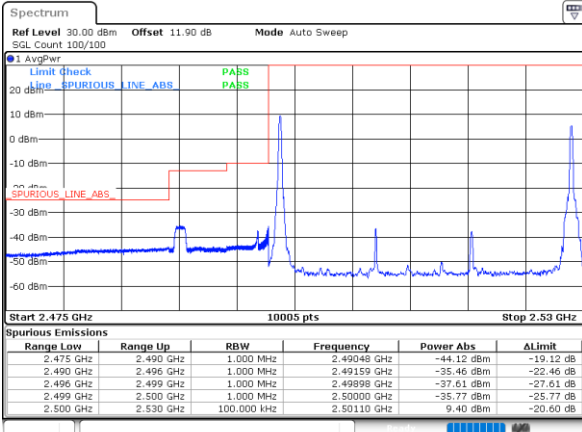


# Conducted Band Edge

## LTE Band 7C / 10MHz+20MHz

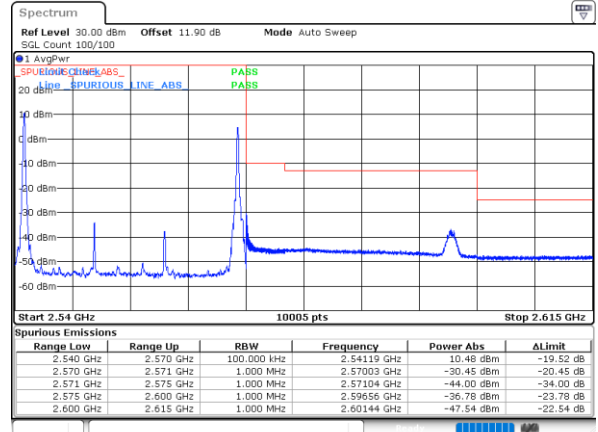
### QPSK

#### Lowest Band Edge / 1RB0 and 1RB9



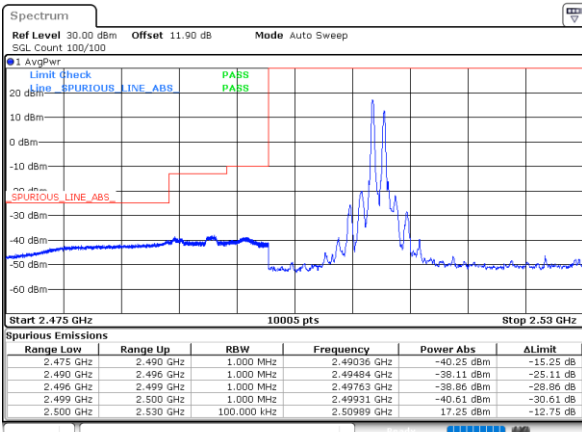
Date: 3 JUN 2021 11:10:49

#### Highest Band Edge / 1RB0 and 1RB9



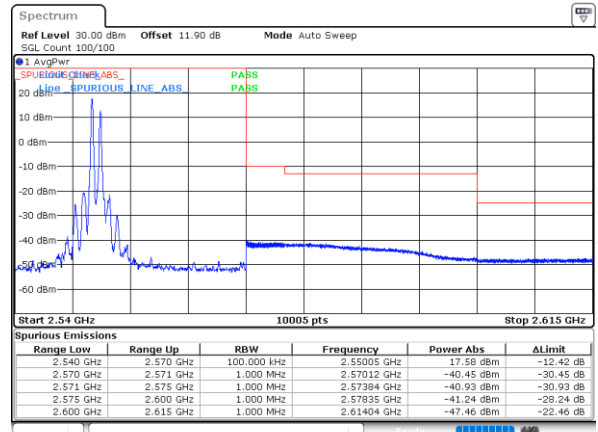
Date: 3 JUN 2021 11:28:33

#### Lowest Band Edge / 1RB49 and 1RB0



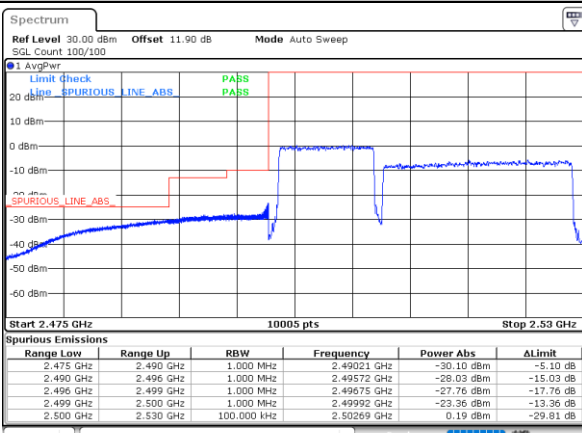
Date: 3 JUN 2021 11:11:22

#### Highest Band Edge / 1RB49 and 1RB0



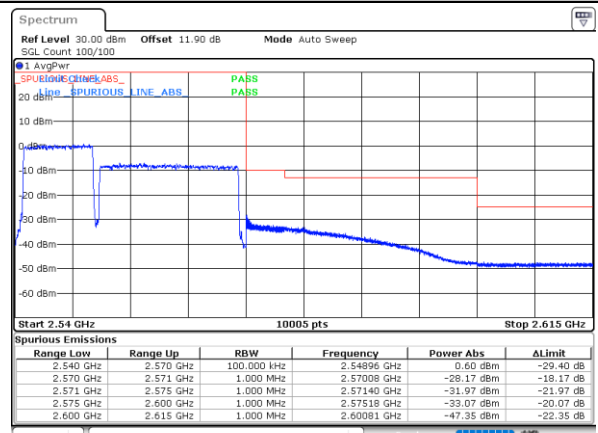
Date: 3 JUN 2021 11:31:15

#### Lowest Band Edge / Full RB



Date: 3 JUN 2021 11:08:03

#### Highest Band Edge / Full RB



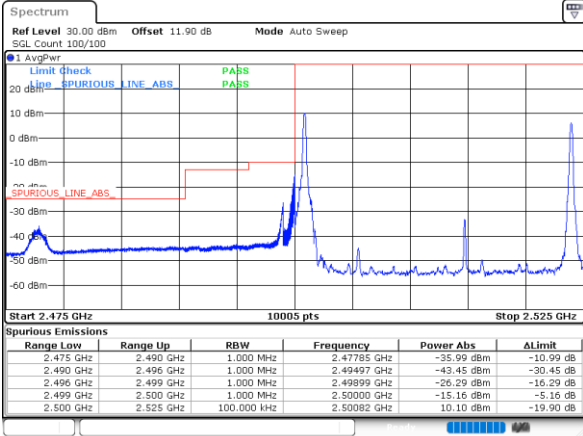
Date: 3 JUN 2021 11:28:00



LTE Band 7C / 15MHz+10MHz

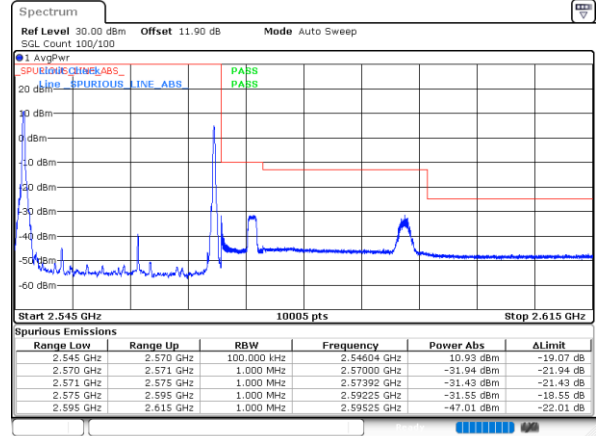
QPSK

Lowest Band Edge / 1RB0 and 1RB49



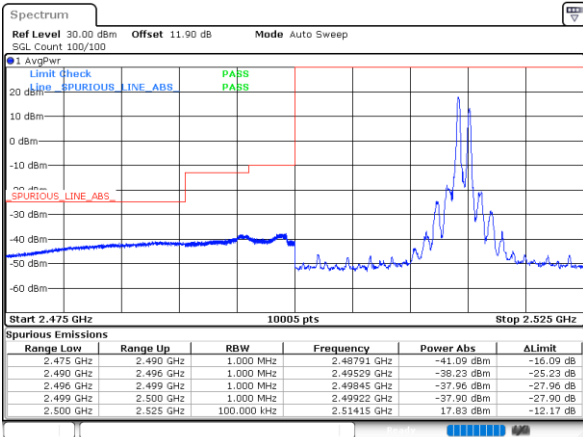
Date: 3 JUN 2021 15:26:53

Highest Band Edge / 1RB0 and 1RB49



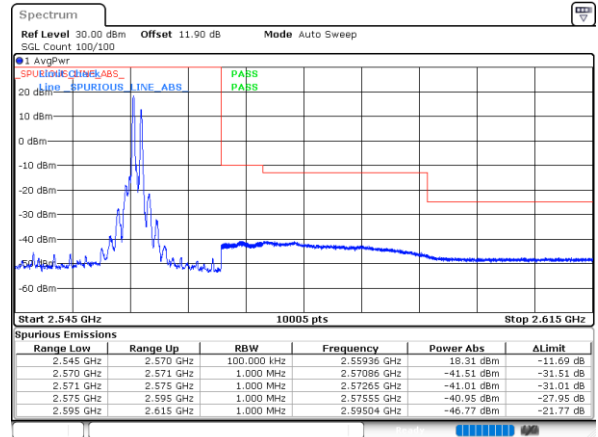
Date: 3 JUN 2021 15:44:07

Lowest Band Edge / 1RB74 and 1RB0



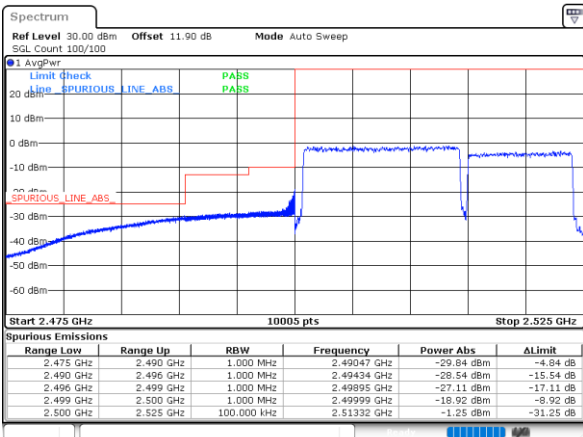
Date: 3 JUN 2021 15:27:26

Highest Band Edge / 1RB74 and 1RB0



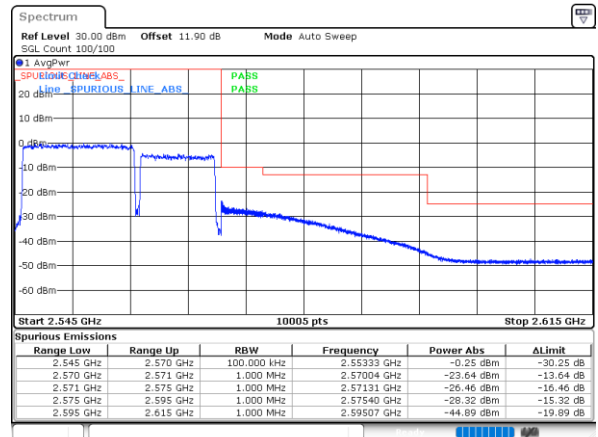
Date: 3 JUN 2021 15:46:48

Lowest Band Edge / Full RB



Date: 3 JUN 2021 15:24:10

Highest Band Edge / Full RB



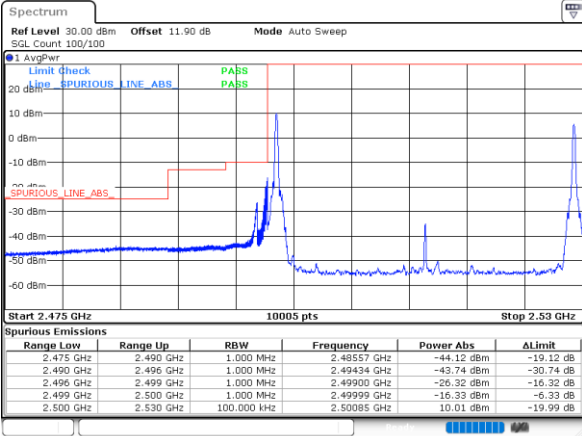
Date: 3 JUN 2021 15:43:35



LTE Band 7C / 15MHz+15MHz

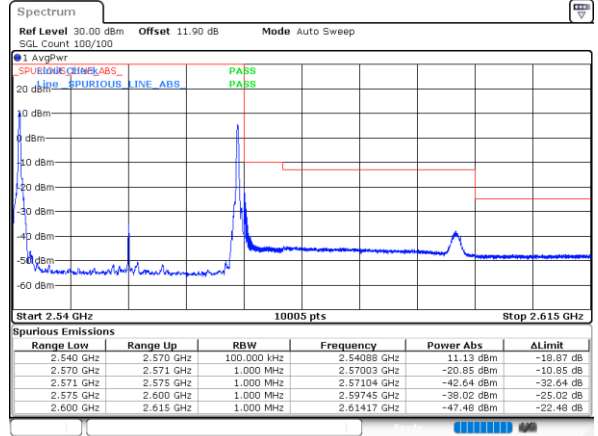
QPSK

Lowest Band Edge / 1RB0 and 1RB74



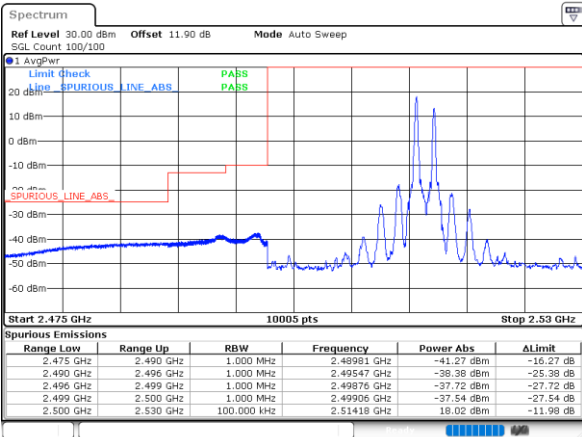
Date: 3 JUN 2021 12:10:46

Highest Band Edge / 1RB0 and 1RB74



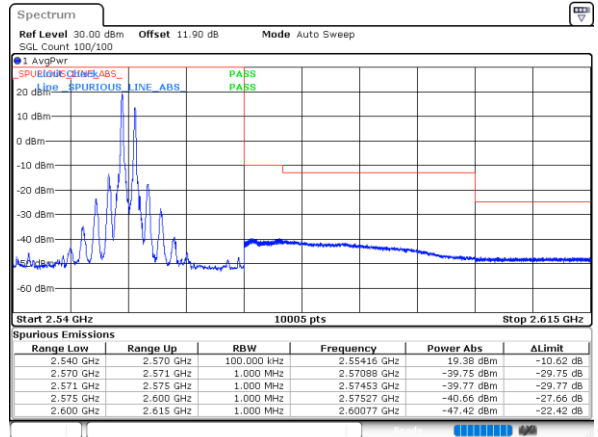
Date: 3 JUN 2021 14:16:03

Lowest Band Edge / 1RB74 and 1RB0



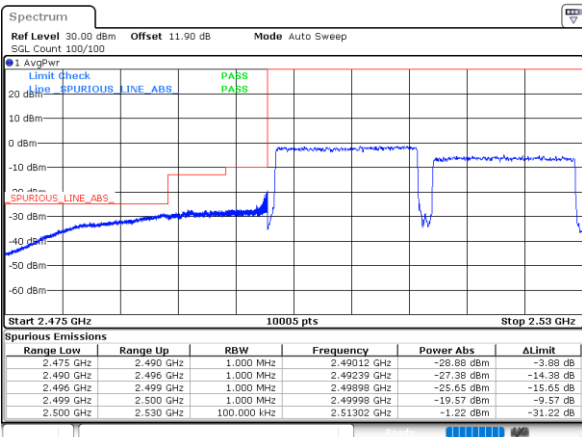
Date: 3 JUN 2021 12:11:19

Highest Band Edge / 1RB74 and 1RB0



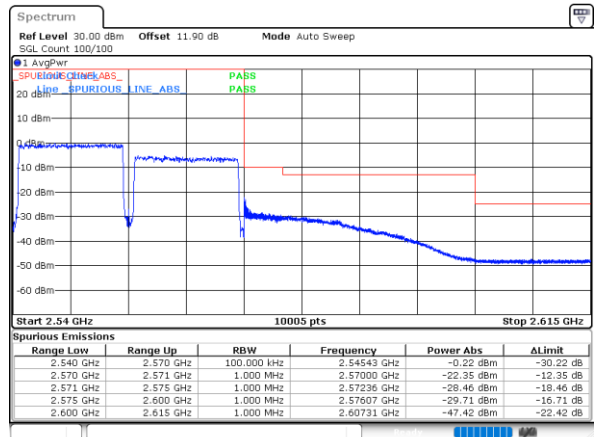
Date: 3 JUN 2021 14:18:48

Lowest Band Edge / Full RB



Date: 3 JUN 2021 12:08:01

Highest Band Edge / Full RB



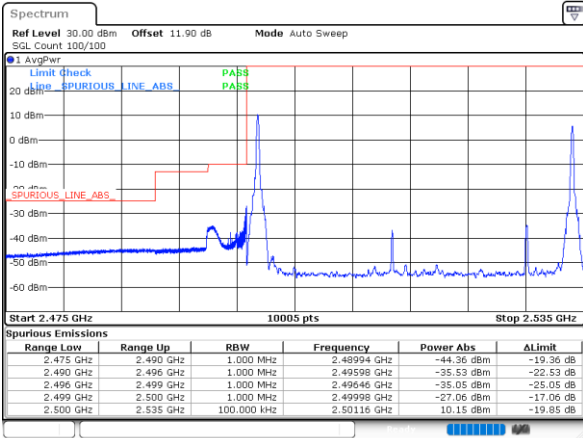
Date: 3 JUN 2021 14:15:29



LTE Band 7C / 15MHz+20MHz

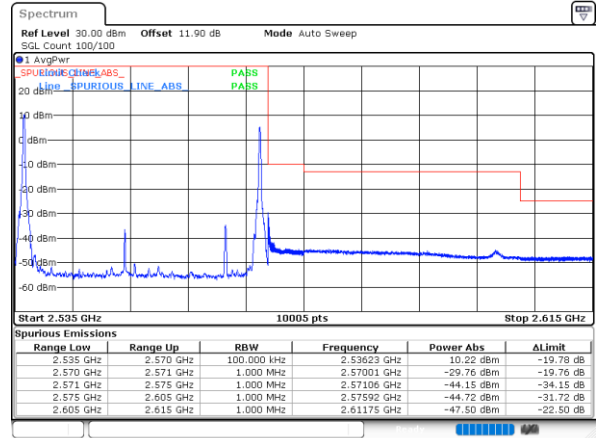
QPSK

Lowest Band Edge / 1RB0 and 1RB9



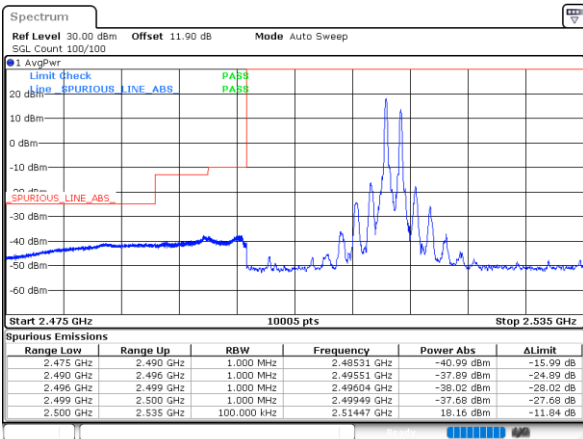
Date: 3 JUN 2021 14:28:09

Highest Band Edge / 1RB0 and 1RB9



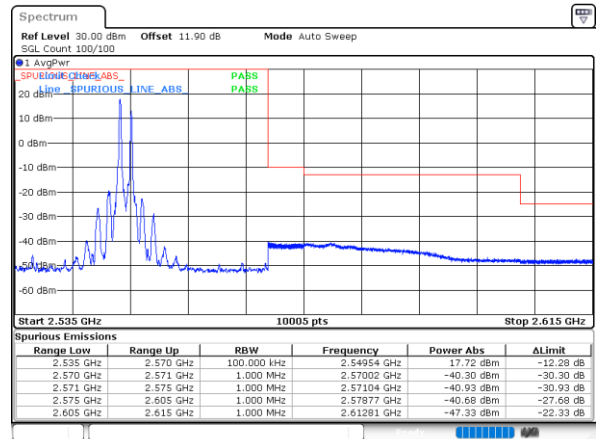
Date: 3 JUN 2021 14:46:18

Lowest Band Edge / 1RB74 and 1RB0



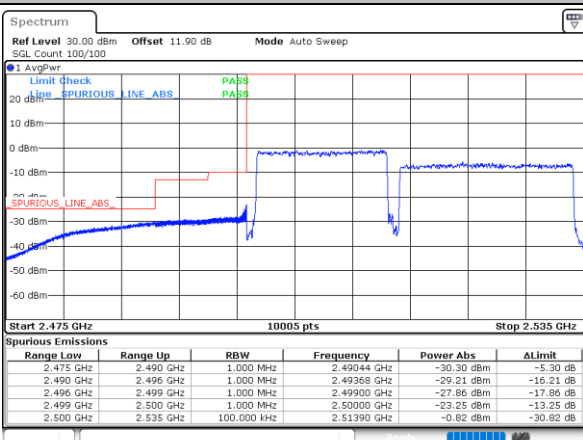
Date: 3 JUN 2021 14:28:42

Highest Band Edge / 1RB74 and 1RB0



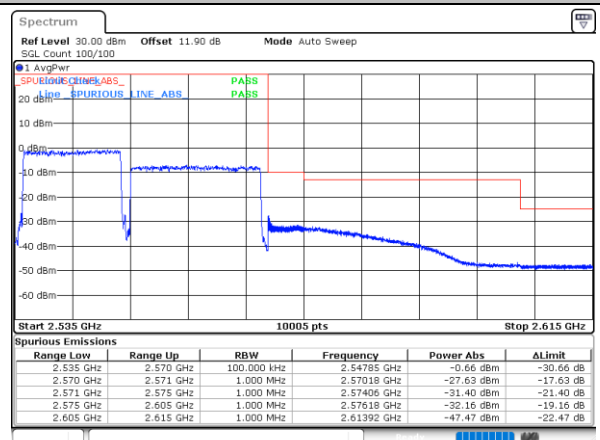
Date: 3 JUN 2021 14:49:03

Lowest Band Edge / Full RB



Date: 3 JUN 2021 14:25:20

Highest Band Edge / Full RB



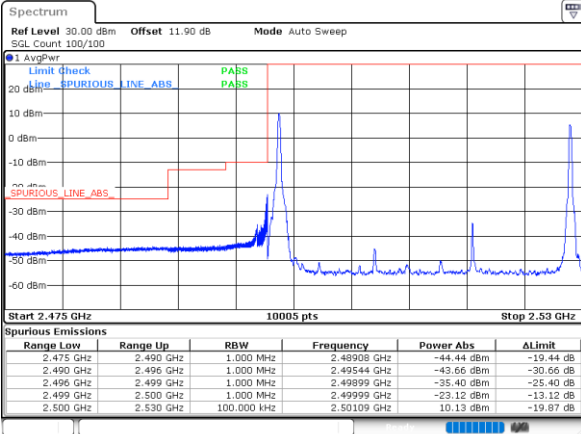
Date: 3 JUN 2021 14:45:45



LTE Band 7C / 20MHz+10MHz

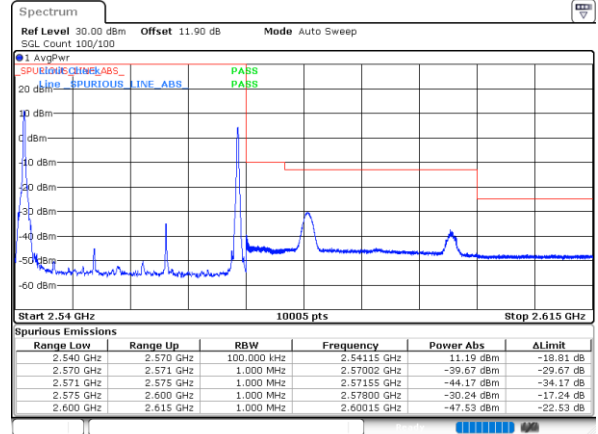
QPSK

Lowest Band Edge / 1RB0 and 1RB49



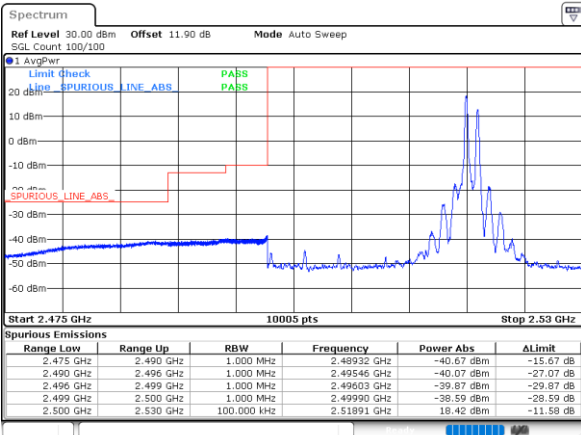
Date: 3 JUN 2021 11:40:12

Highest Band Edge / 1RB0 and 1RB49



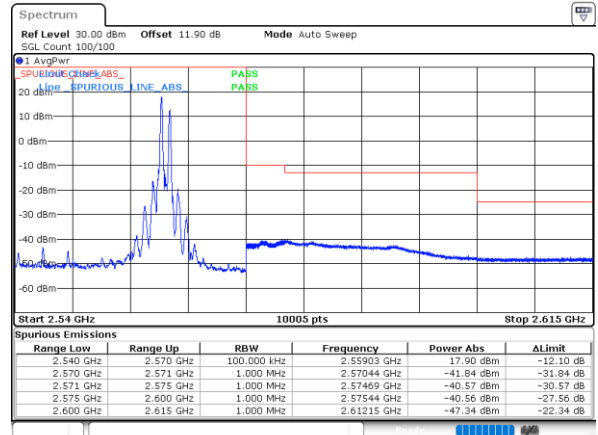
Date: 3 JUN 2021 11:58:25

Lowest Band Edge / 1RB99 and 1RB0



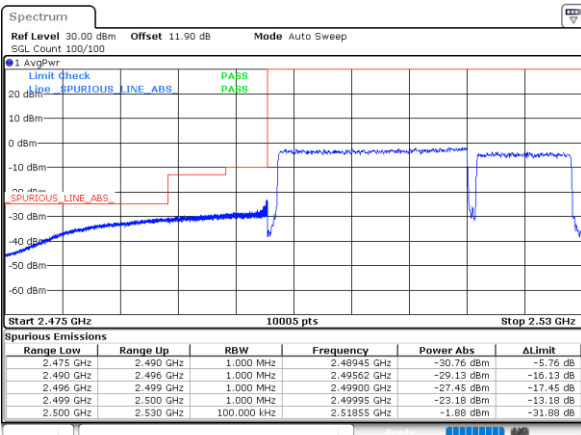
Date: 3 JUN 2021 11:40:45

Highest Band Edge / 1RB99 and 1RB0



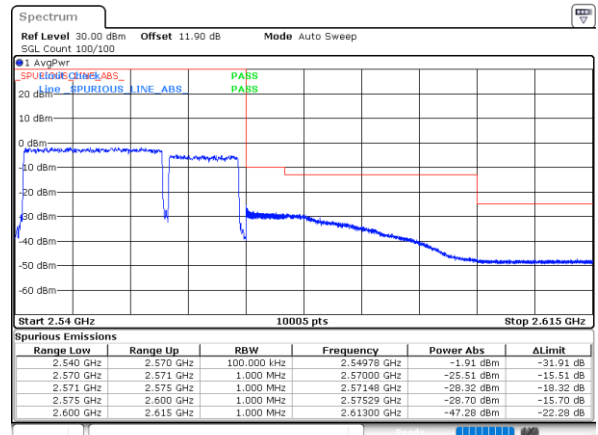
Date: 3 JUN 2021 12:01:08

Lowest Band Edge / Full RB



Date: 3 JUN 2021 11:37:28

Highest Band Edge / Full RB



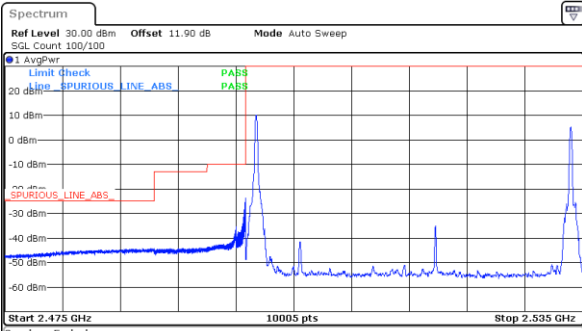
Date: 3 JUN 2021 11:57:53



LTE Band 7C / 20MHz+15MHz

QPSK

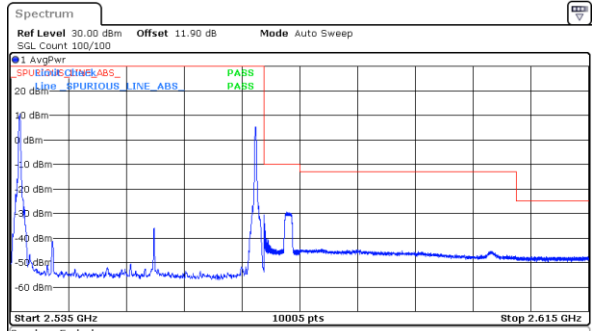
Lowest Band Edge / 1RB0 and 1RB74



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49008 GHz	-44.22 dBm	-19.22 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49533 GHz	-44.11 dBm	-31.11 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49900 GHz	-35.40 dBm	-25.40 dB
2.499 GHz	2.500 GHz	1.000 MHz	2.50000 GHz	-23.84 dBm	-13.84 dB
2.500 GHz	2.535 GHz	100.000 kHz	2.50109 GHz	10.06 dBm	-19.94 dB

Date: 3 JUN 2021 14:57:24

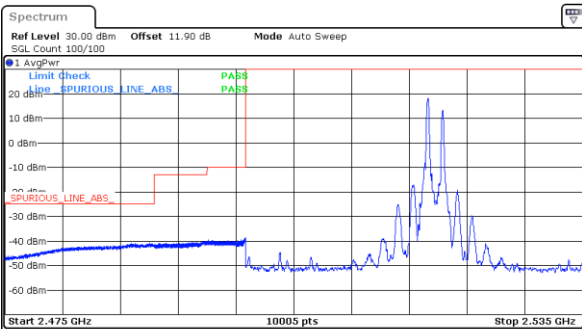
Highest Band Edge / 1RB0 and 1RB74



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.535 GHz	2.570 GHz	100.000 kHz	2.53622 GHz	10.73 dBm	-19.27 dB
2.570 GHz	2.571 GHz	1.000 MHz	2.57001 GHz	-30.67 dBm	-20.67 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57318 GHz	-29.43 dBm	-19.43 dB
2.575 GHz	2.605 GHz	1.000 MHz	2.57793 GHz	-44.54 dBm	-31.54 dB
2.605 GHz	2.615 GHz	1.000 MHz	2.61299 GHz	-47.53 dBm	-22.53 dB

Date: 3 JUN 2021 15:15:02

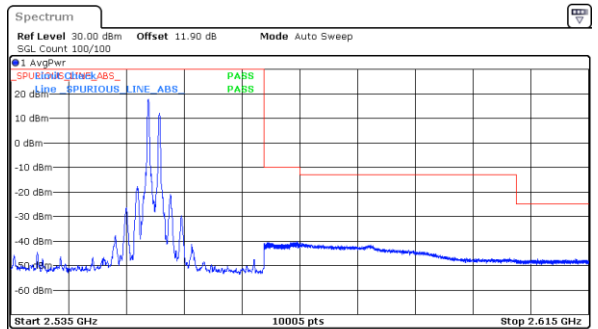
Lowest Band Edge / 1RB99 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49005 GHz	-40.89 dBm	-15.89 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49562 GHz	-40.12 dBm	-27.12 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49608 GHz	-39.59 dBm	-29.59 dB
2.499 GHz	2.500 GHz	1.000 MHz	2.49996 GHz	-38.72 dBm	-28.72 dB
2.500 GHz	2.535 GHz	100.000 kHz	2.51893 GHz	18.18 dBm	-11.82 dB

Date: 3 JUN 2021 14:57:58

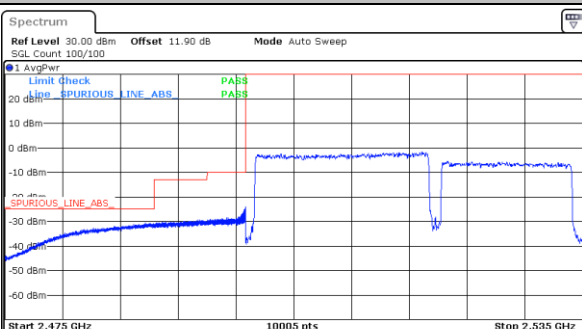
Highest Band Edge / 1RB99 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.535 GHz	2.570 GHz	100.000 kHz	2.55402 GHz	17.79 dBm	-12.21 dB
2.570 GHz	2.571 GHz	1.000 MHz	2.57069 GHz	-40.62 dBm	-30.62 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57455 GHz	-40.28 dBm	-30.28 dB
2.575 GHz	2.605 GHz	1.000 MHz	2.57507 GHz	-40.85 dBm	-27.85 dB
2.605 GHz	2.615 GHz	1.000 MHz	2.61321 GHz	-47.44 dBm	-22.44 dB

Date: 3 JUN 2021 15:17:43

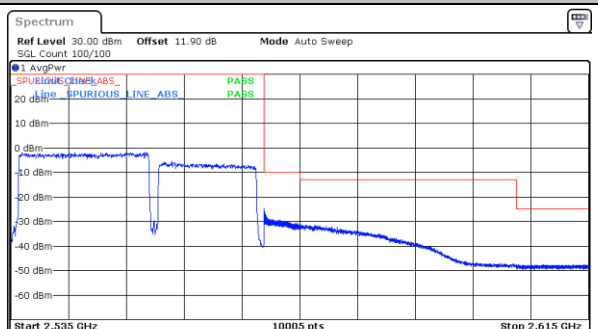
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49555 GHz	-30.71 dBm	-5.71 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49522 GHz	-29.52 dBm	-16.52 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49798 GHz	-28.60 dBm	-18.60 dB
2.499 GHz	2.500 GHz	1.000 MHz	2.50000 GHz	-23.94 dBm	-13.94 dB
2.500 GHz	2.535 GHz	100.000 kHz	2.51832 GHz	-1.75 dBm	-31.75 dB

Date: 3 JUN 2021 14:54:36

Highest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.535 GHz	2.570 GHz	100.000 kHz	2.54384 GHz	-1.86 dBm	-31.86 dB
2.570 GHz	2.571 GHz	1.000 MHz	2.57001 GHz	-24.55 dBm	-14.55 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57124 GHz	-29.22 dBm	-19.22 dB
2.575 GHz	2.605 GHz	1.000 MHz	2.57516 GHz	-31.22 dBm	-18.22 dB
2.605 GHz	2.615 GHz	1.000 MHz	2.60528 GHz	-47.61 dBm	-22.61 dB

Date: 3 JUN 2021 15:14:30