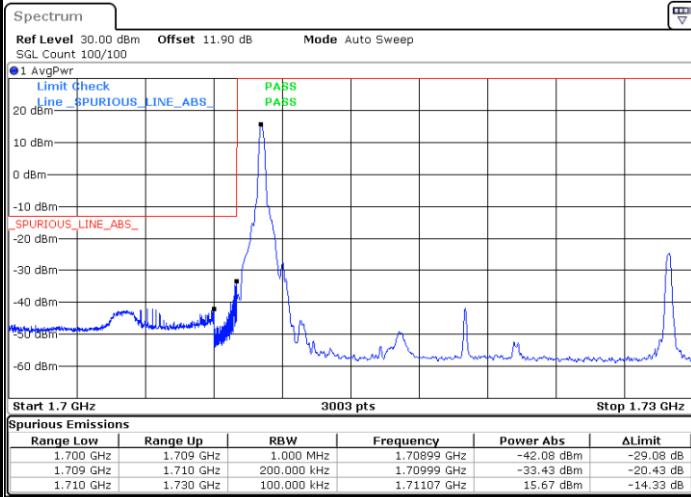




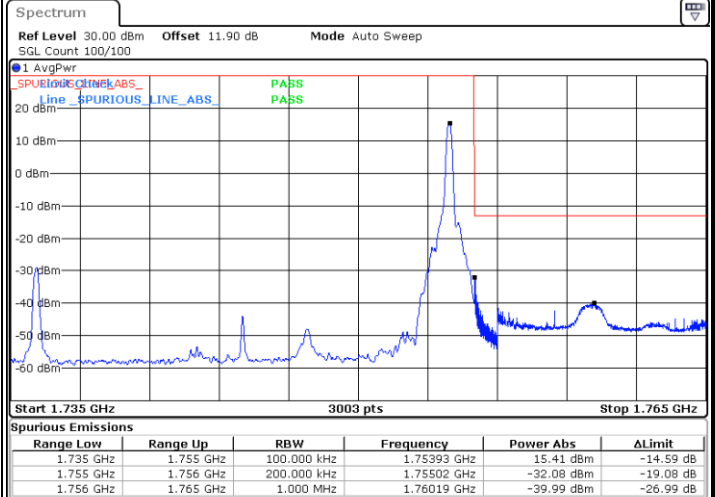
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



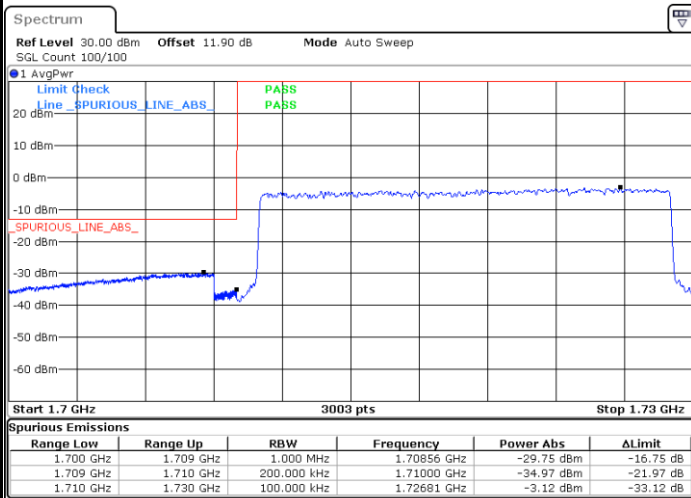
Date: 27.JUN.2021 07:05:53

Highest Band Edge / 1 RB



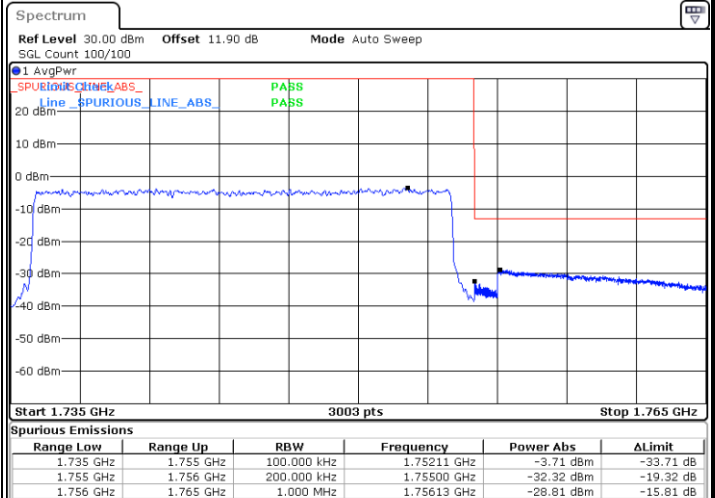
Date: 27.JUN.2021 07:10:58

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:06:46

Highest Band Edge / Full RB

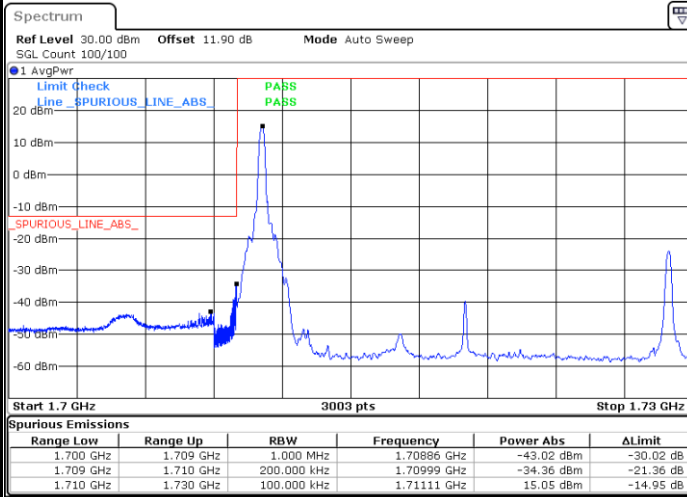


Date: 27.JUN.2021 07:11:50



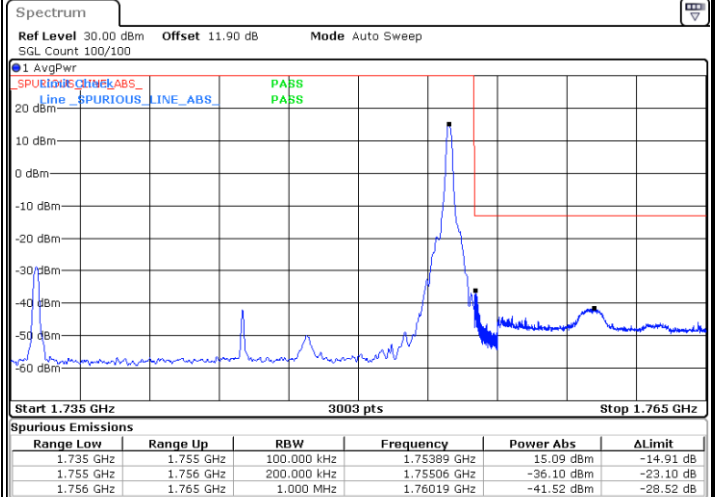
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



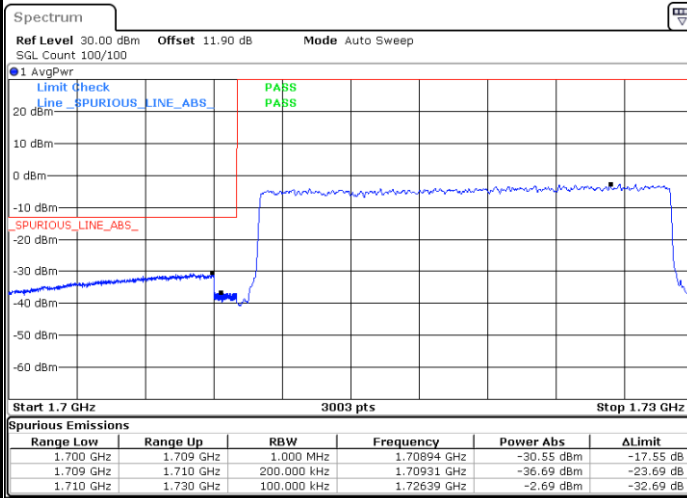
Date: 27.JUN.2021 07:13:12

Highest Band Edge / 1 RB



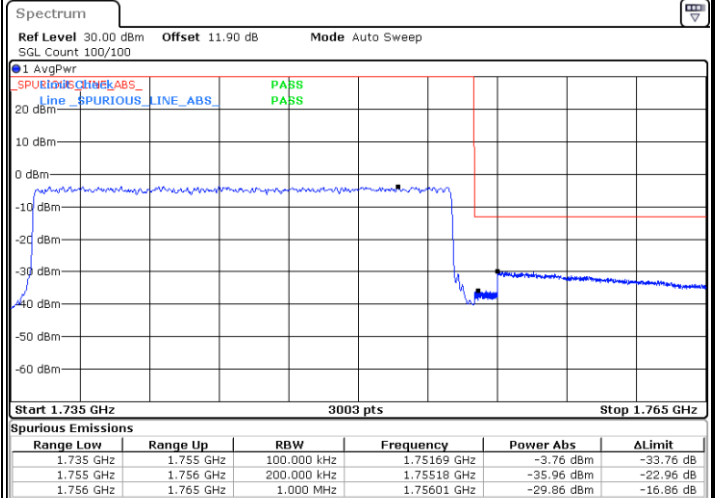
Date: 27.JUN.2021 07:14:47

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:13:38

Highest Band Edge / Full RB



Date: 27.JUN.2021 07:15:13

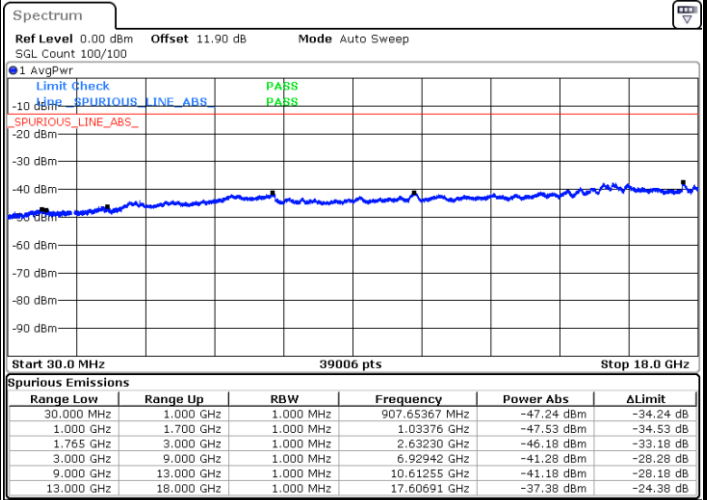
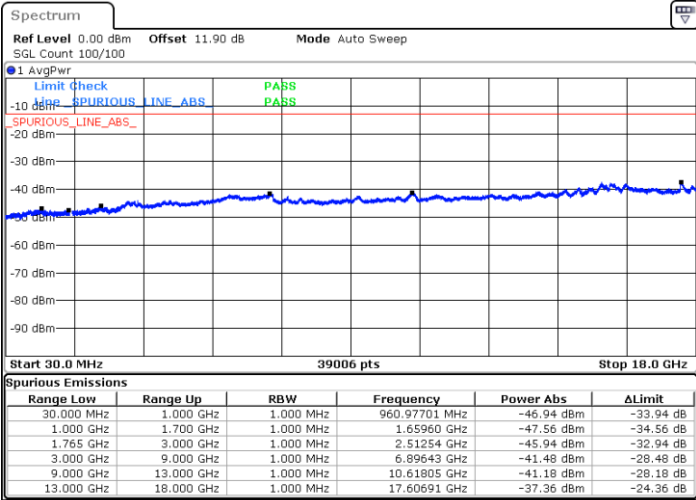


# Conducted Spurious Emission

## LTE Band 4 / 1.4MHz

### Lowest Channel / QPSK

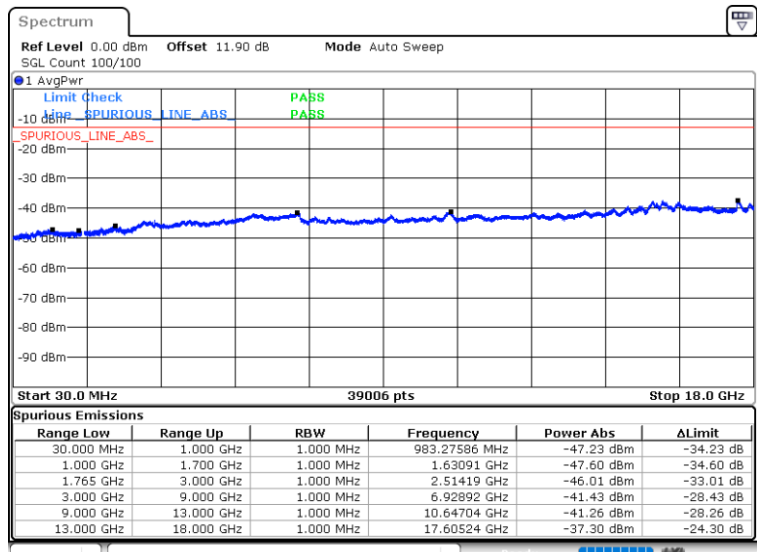
### Middle Channel / QPSK



Date: 27.JUN.2021 06:16:44

Date: 27.JUN.2021 06:19:08

### Highest Channel / QPSK



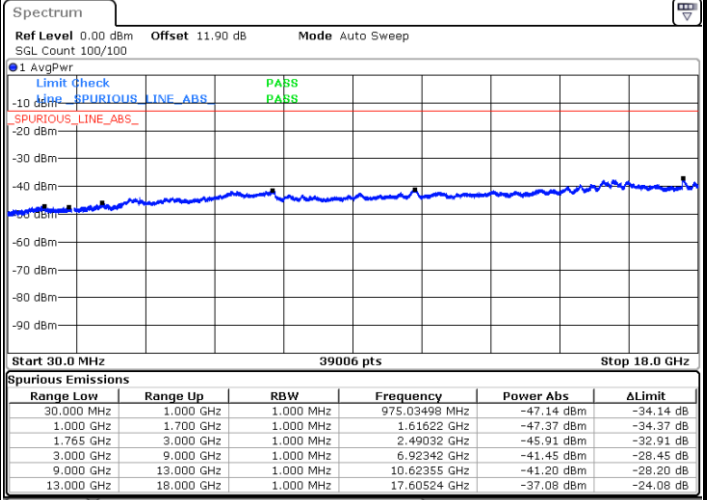
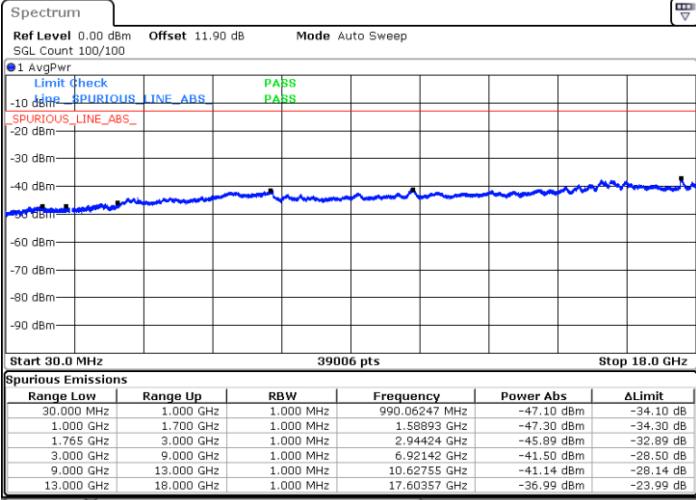
Date: 27.JUN.2021 06:21:47



LTE Band 4 / 3MHz

Lowest Channel / QPSK

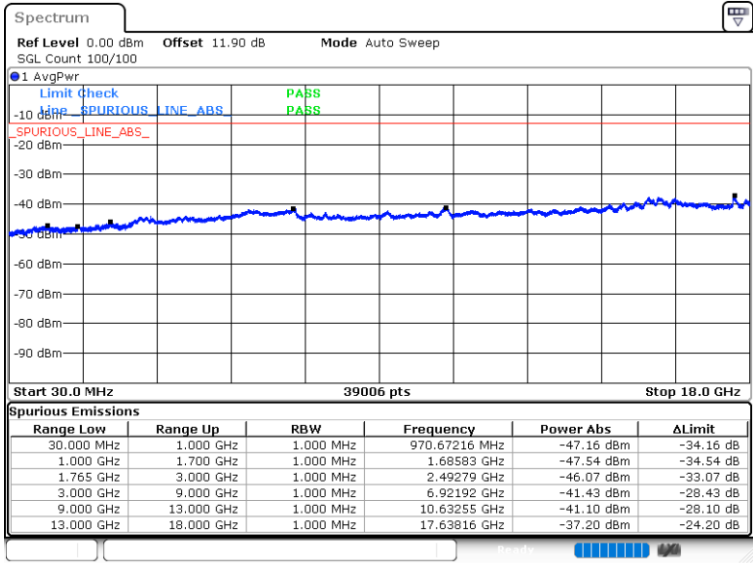
Middle Channel / QPSK



Date: 27.JUN.2021 06:26:57

Date: 27.JUN.2021 06:29:20

Highest Channel / QPSK



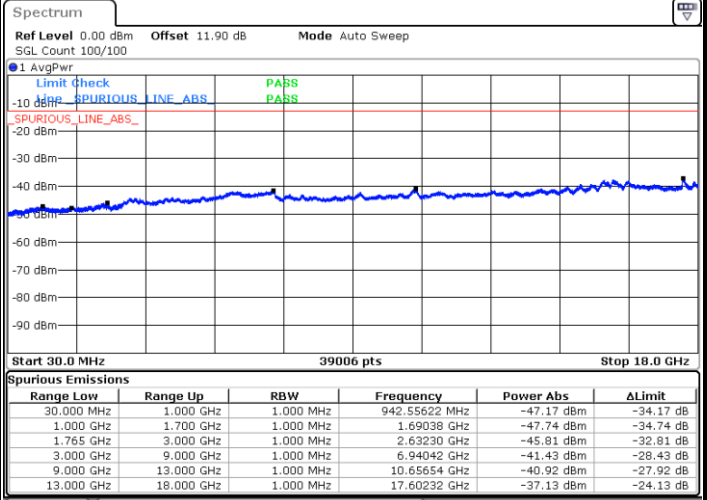
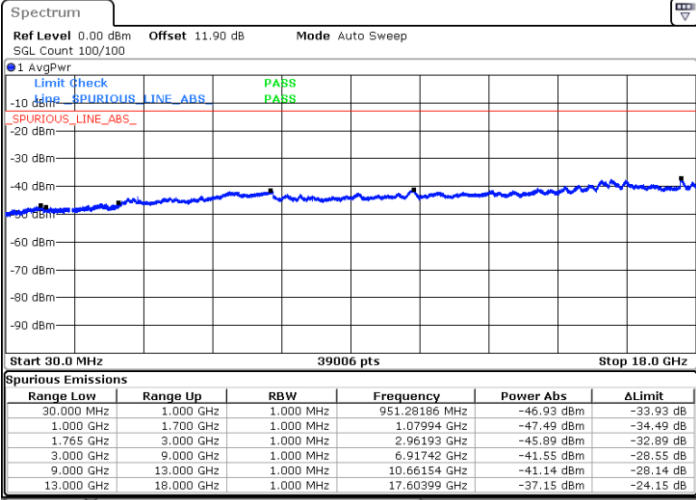
Date: 27.JUN.2021 06:32:00



LTE Band 4 / 5MHz

Lowest Channel / QPSK

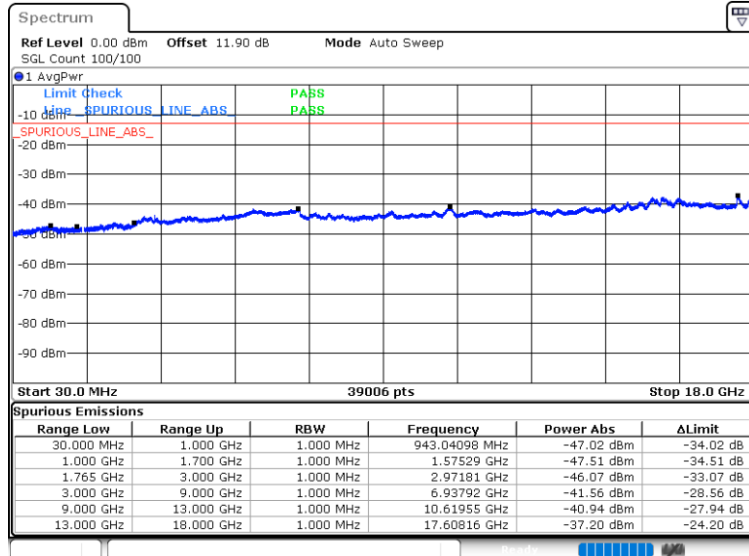
Middle Channel / QPSK



Date: 27.JUN.2021 06:39:35

Date: 27.JUN.2021 06:41:58

Highest Channel / QPSK



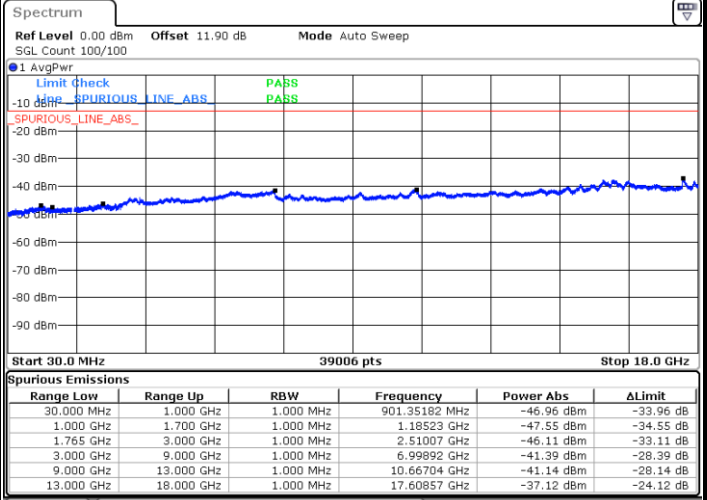
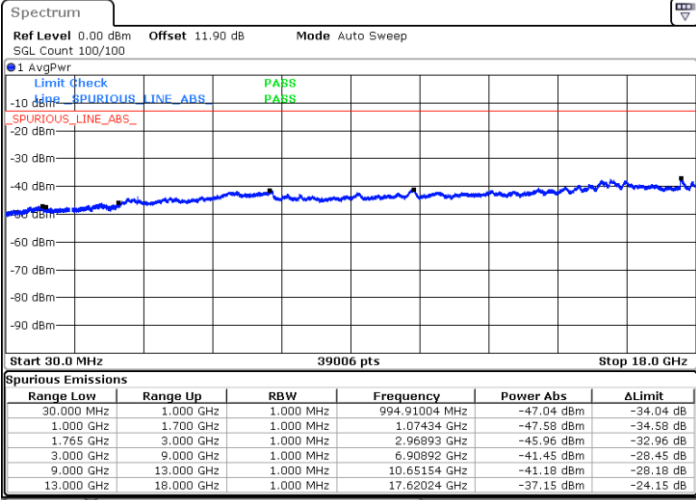
Date: 27.JUN.2021 06:44:37



LTE Band 4 / 10MHz

Lowest Channel / QPSK

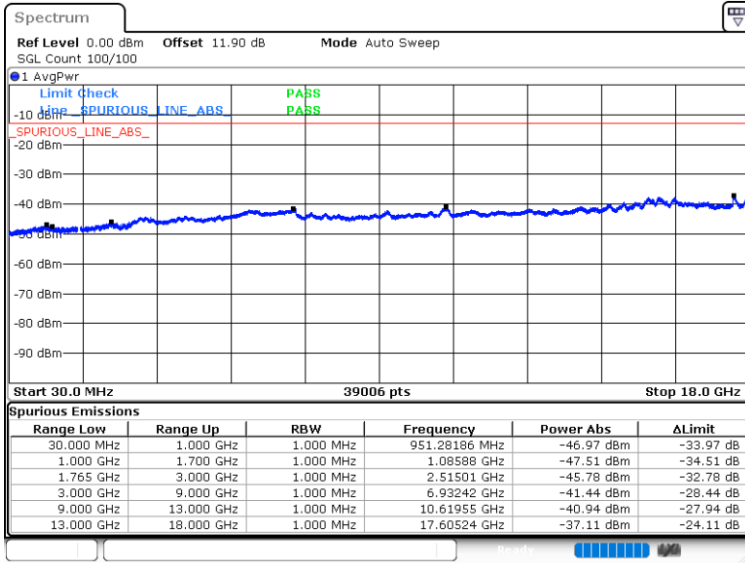
Middle Channel / QPSK



Date: 27.JUN.2021 06:47:18

Date: 27.JUN.2021 06:49:41

Highest Channel / QPSK



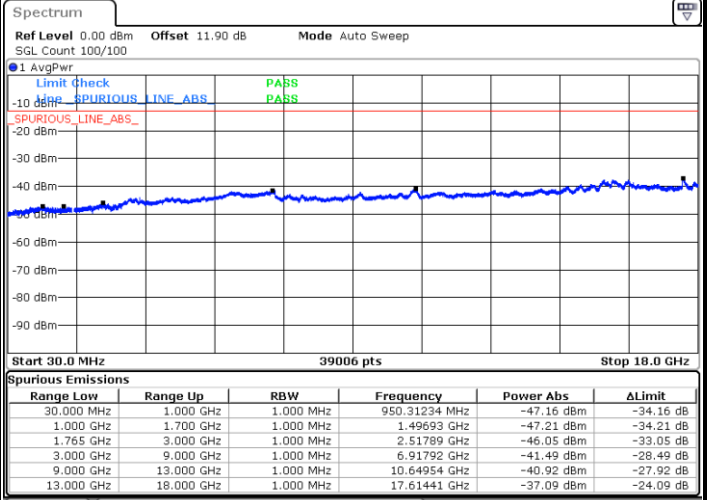
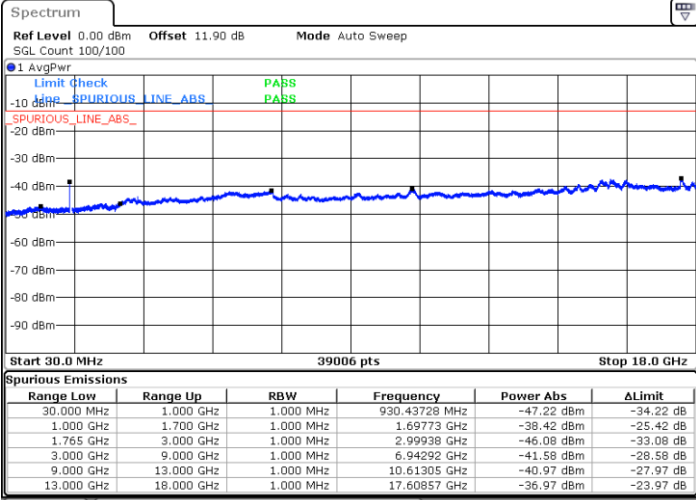
Date: 27.JUN.2021 06:52:21



LTE Band 4 / 15MHz

Lowest Channel / QPSK

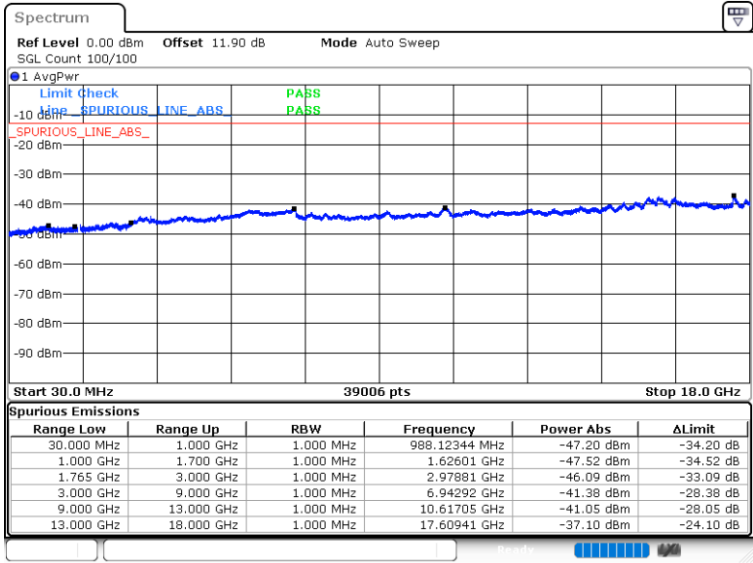
Middle Channel / QPSK



Date: 27.JUN.2021 06:57:30

Date: 27.JUN.2021 06:59:53

Highest Channel / QPSK



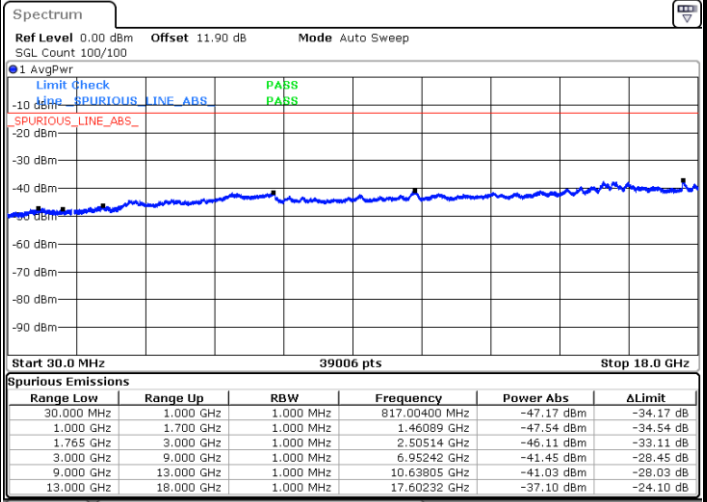
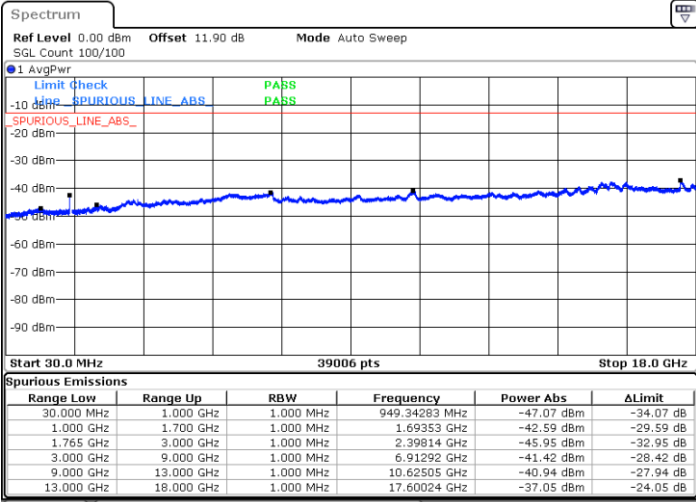
Date: 27.JUN.2021 07:02:32



LTE Band 4 / 20MHz

Lowest Channel / QPSK

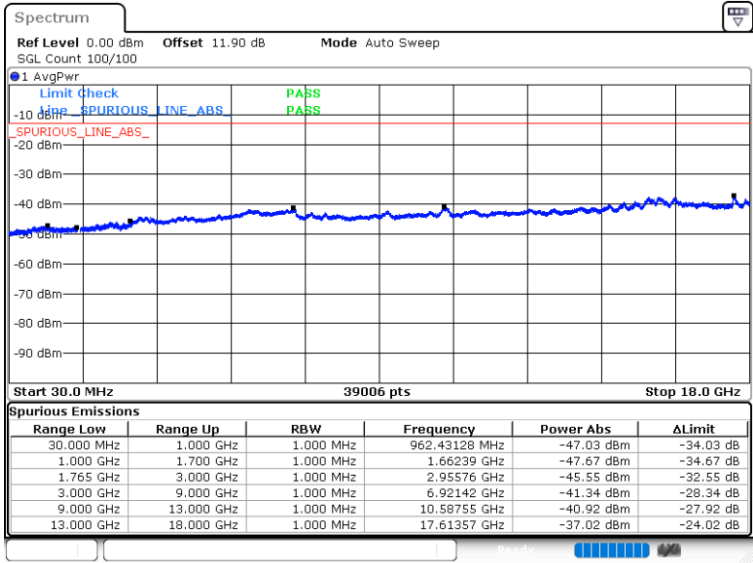
Middle Channel / QPSK



Date: 27.JUN.2021 07:07:41

Date: 27.JUN.2021 07:10:04

Highest Channel / QPSK



Date: 27.JUN.2021 07:12:45





### Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0109	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0081	
-10	Normal Voltage	0.0103	
-20	Normal Voltage	0.0099	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0084	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0098	

**Note:**

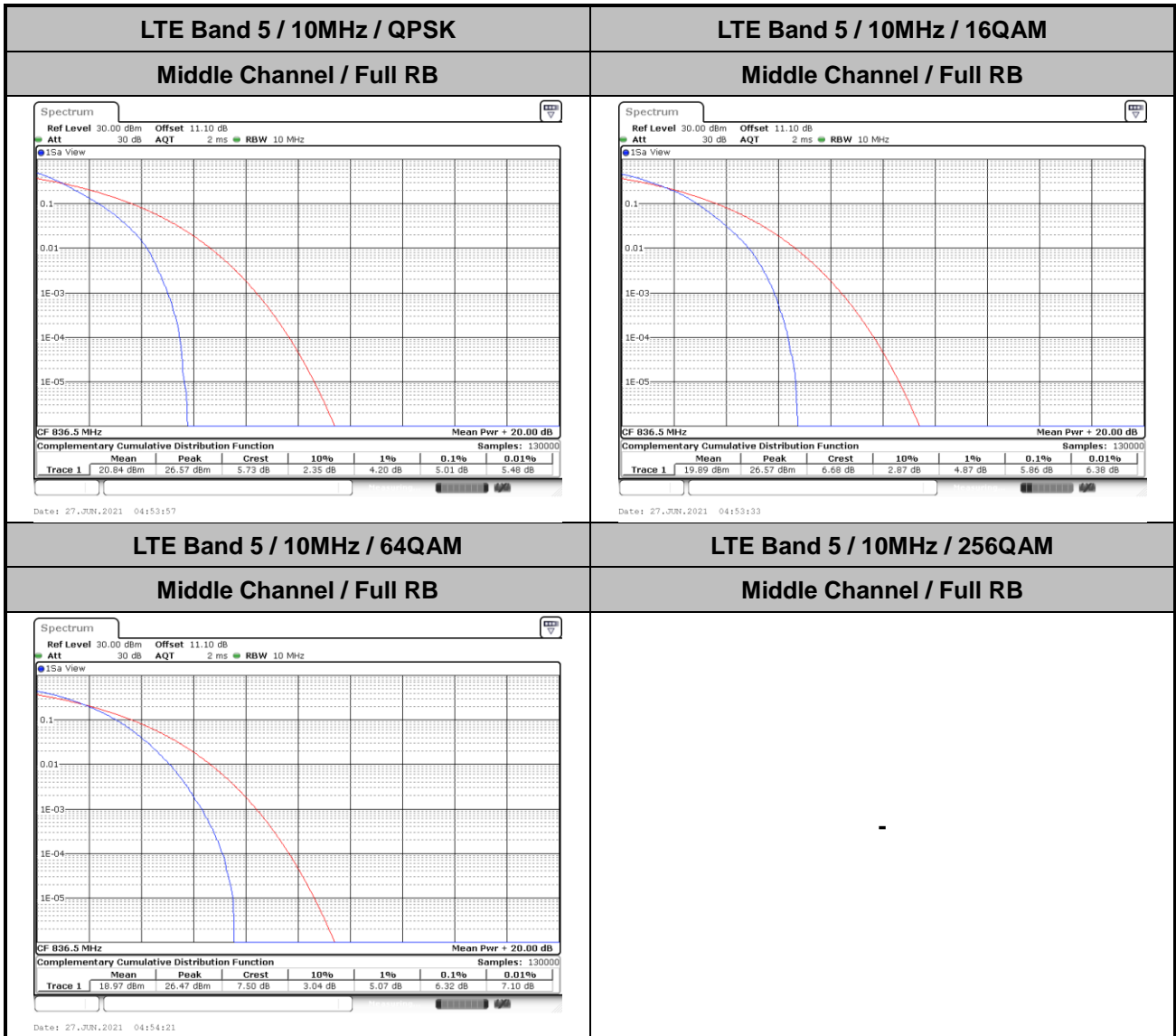
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5

### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.01	5.86	6.32	-	PASS





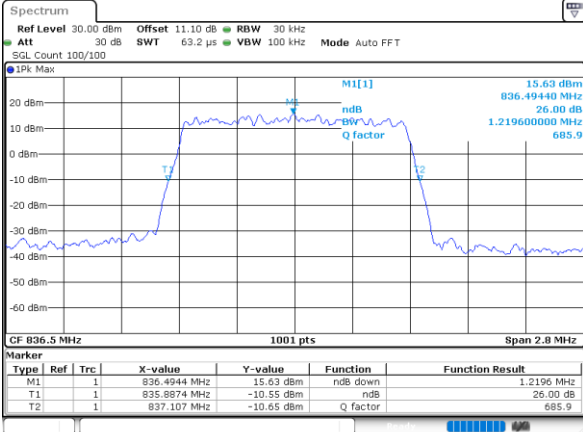
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.22	1.23	3.05	3.02	4.84	4.88	9.69	9.89	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.22	-	3.00	-	4.97	-	9.73	-	-	-	-	-



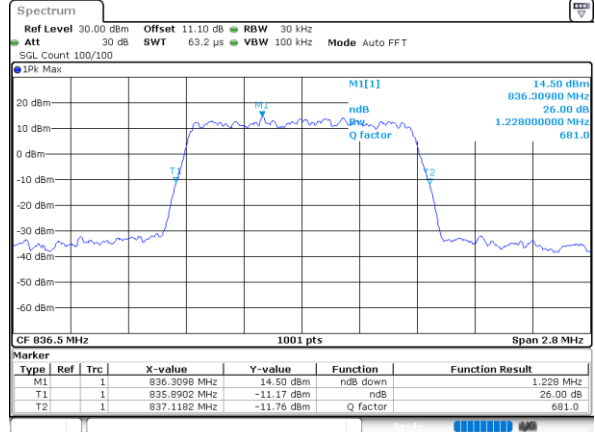
LTE Band 5

Middle Channel / 1.4MHz / QPSK



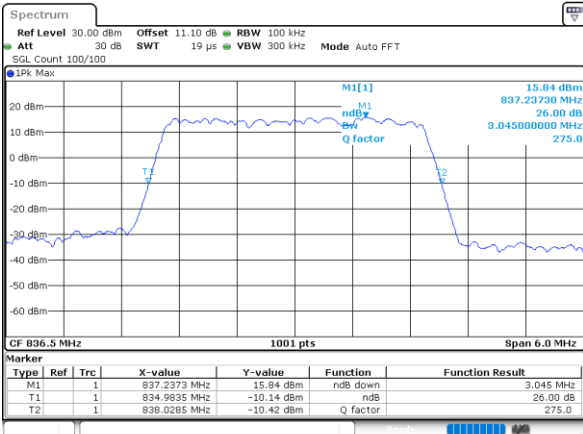
Date: 27\_JUN,2021 03:18:01

Middle Channel / 1.4MHz / 16QAM



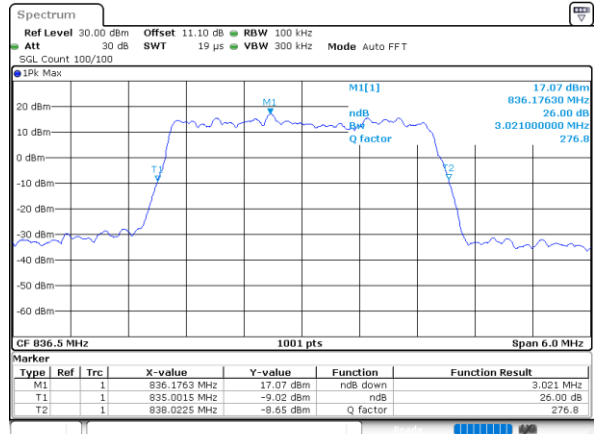
Date: 27\_JUN,2021 03:18:22

Middle Channel / 3MHz / QPSK



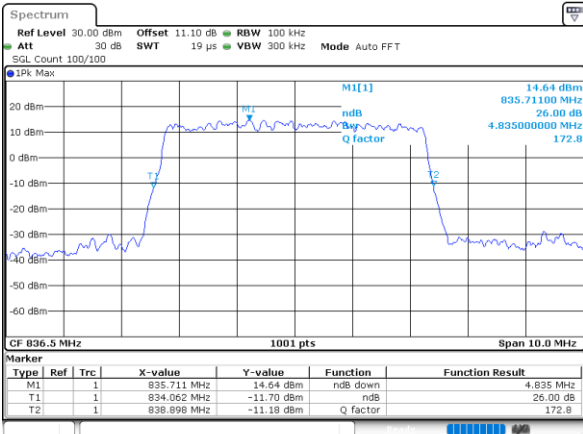
Date: 27\_JUN,2021 03:44:04

Middle Channel / 3MHz / 16QAM



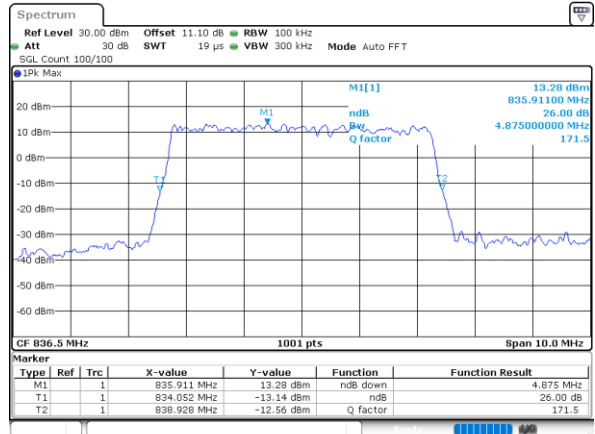
Date: 27\_JUN,2021 03:44:25

Middle Channel / 5MHz / QPSK



Date: 27\_JUN,2021 04:10:07

Middle Channel / 5MHz / 16QAM

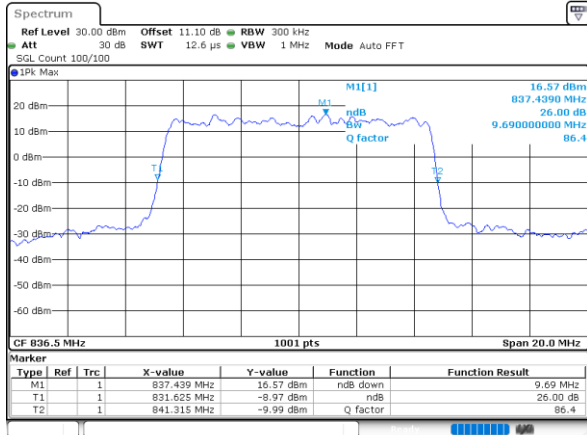


Date: 27\_JUN,2021 04:10:27



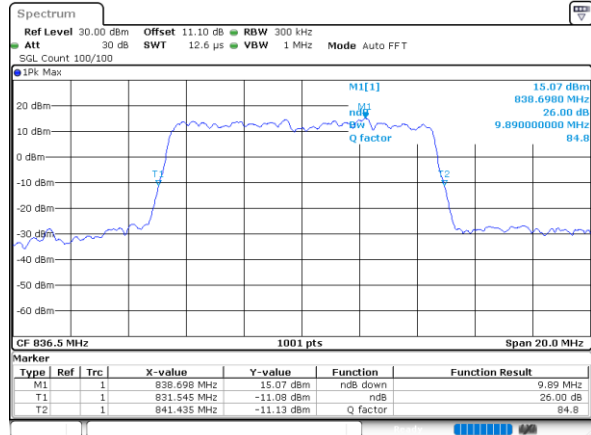
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 27\_JUN.2021 04:36:11

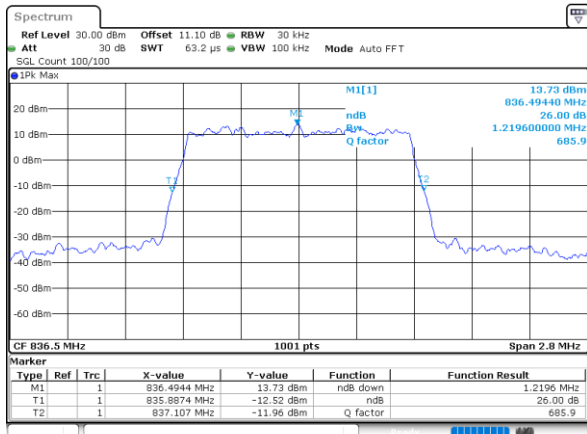
Middle Channel / 10MHz / 16QAM



Date: 27\_JUN.2021 04:13:32

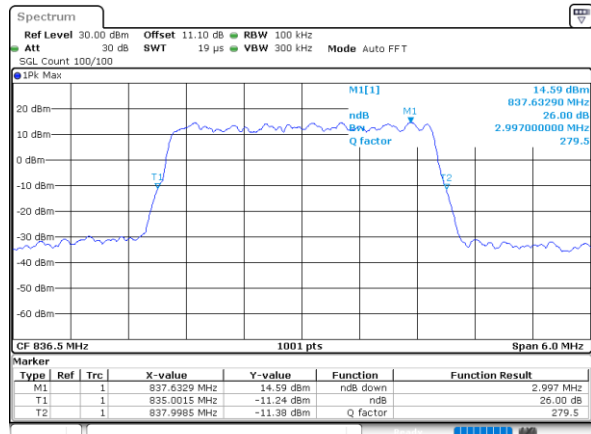
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



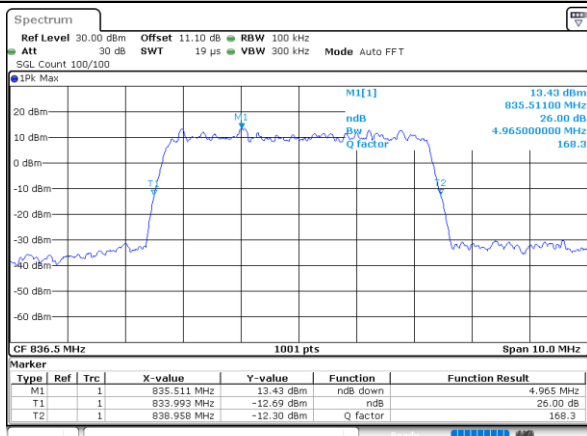
Date: 27\_JUN.2021 03:31:18

Middle Channel / 3MHz / 64QAM



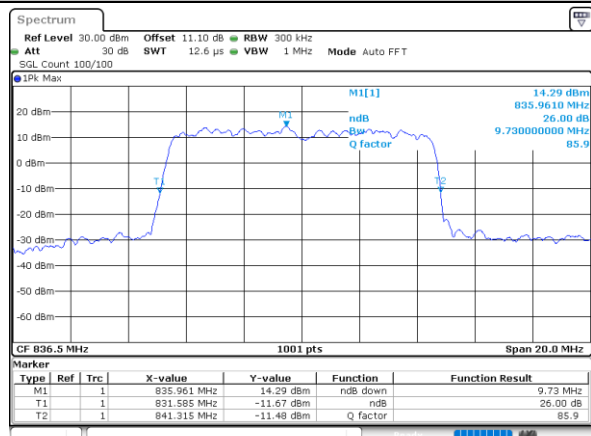
Date: 27\_JUN.2021 03:57:22

Middle Channel / 5MHz / 64QAM



Date: 27\_JUN.2021 04:23:26

Middle Channel / 10MHz / 64QAM



Date: 27\_JUN.2021 04:49:30



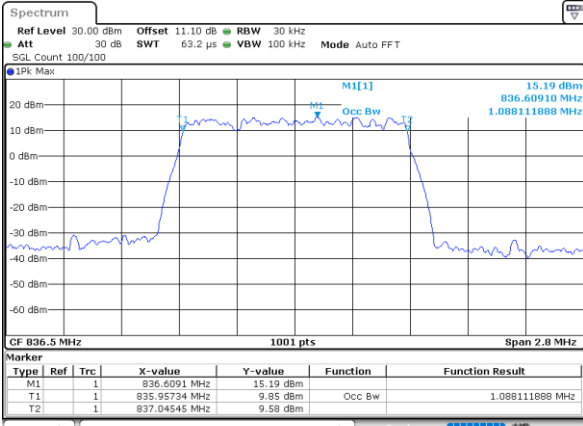
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	1.09	1.09	2.71	2.72	4.49	4.50	9.01	8.99	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.09	-	2.70	-	4.49	-	9.07	-	-	-	-	-



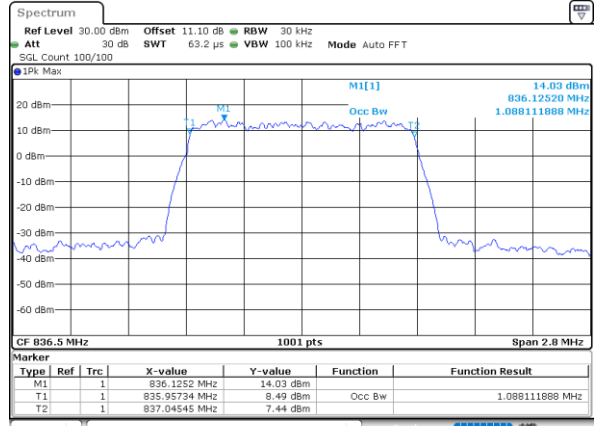
LTE Band 5

Middle Channel / 1.4MHz / QPSK



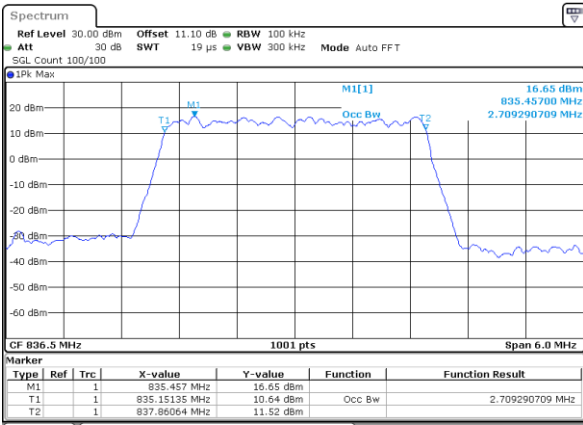
Date: 27 JUN 2021 03:17:16

Middle Channel / 1.4MHz / 16QAM



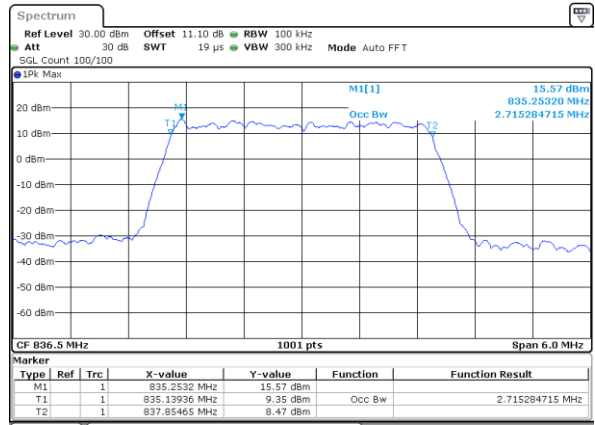
Date: 27 JUN 2021 03:17:39

Middle Channel / 3MHz / QPSK



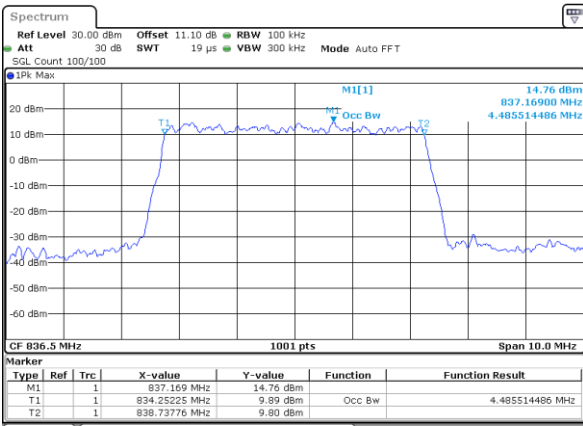
Date: 27 JUN 2021 03:43:19

Middle Channel / 3MHz / 16QAM



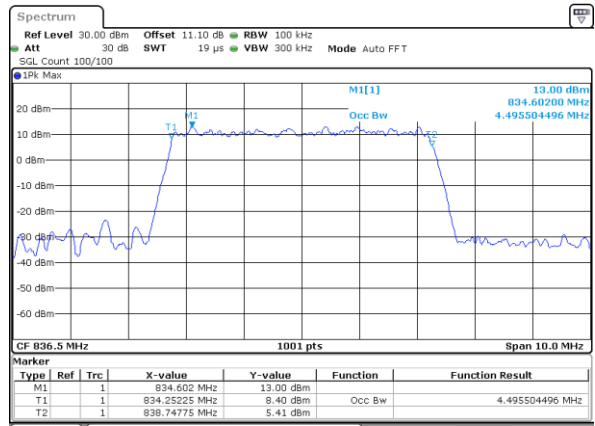
Date: 27 JUN 2021 03:43:42

Middle Channel / 5MHz / QPSK



Date: 27 JUN 2021 04:09:22

Middle Channel / 5MHz / 16QAM



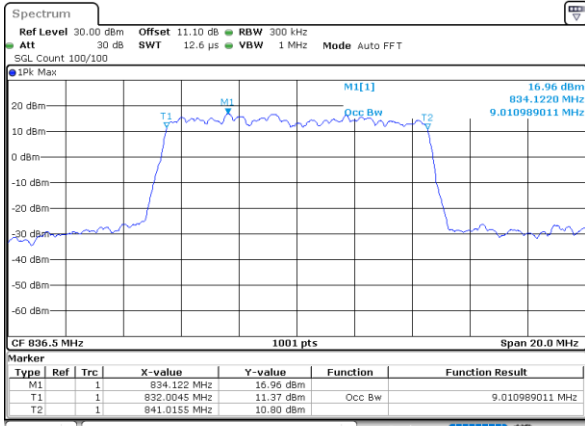
Date: 27 JUN 2021 04:09:44





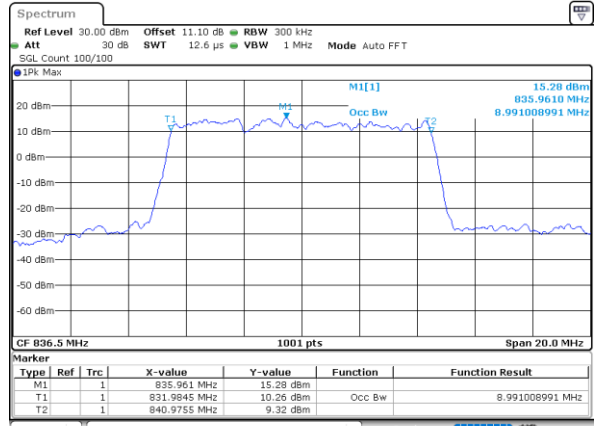
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 27\_JUN,2021 04:35:26

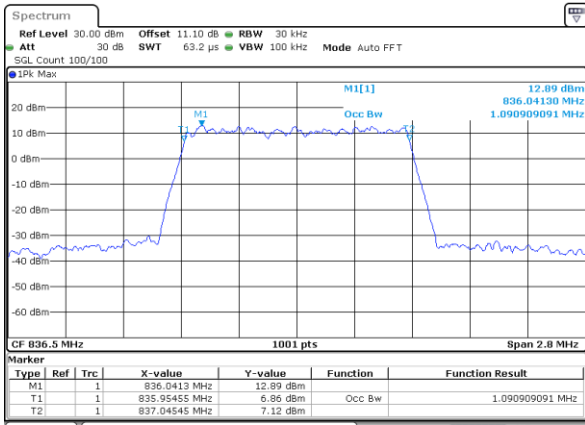
Middle Channel / 10MHz / 16QAM



Date: 27\_JUN,2021 04:35:48

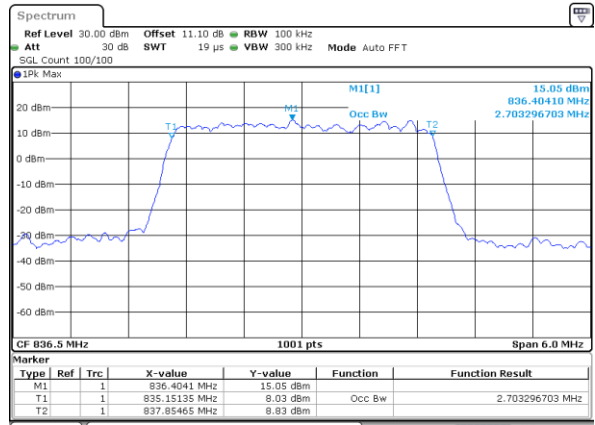
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



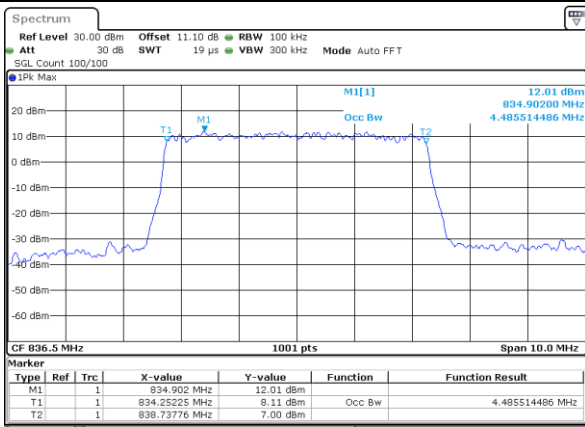
Date: 27\_JUN,2021 03:30:56

Middle Channel / 3MHz / 64QAM



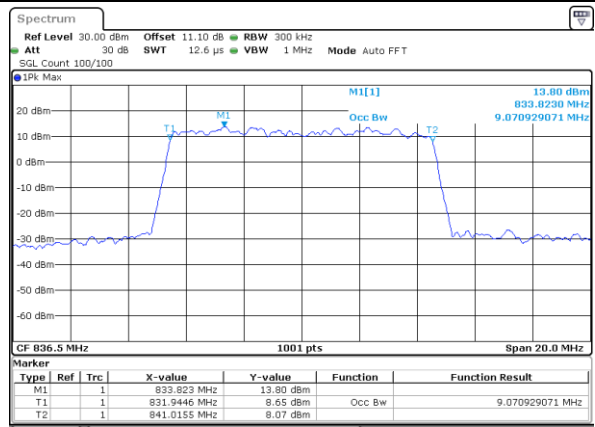
Date: 27\_JUN,2021 03:57:00

Middle Channel / 5MHz / 64QAM



Date: 27\_JUN,2021 04:23:04

Middle Channel / 10MHz / 64QAM



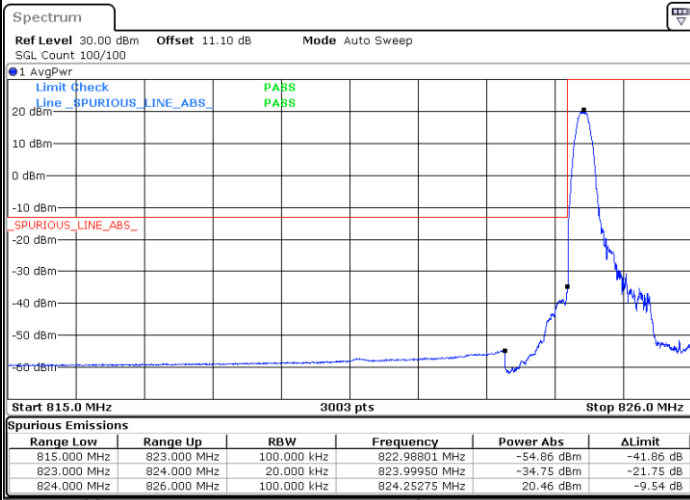
Date: 27\_JUN,2021 04:49:08



# Conducted Band Edge

## LTE Band 5 / 1.4MHz / QPSK

### Lowest Band Edge / 1RB



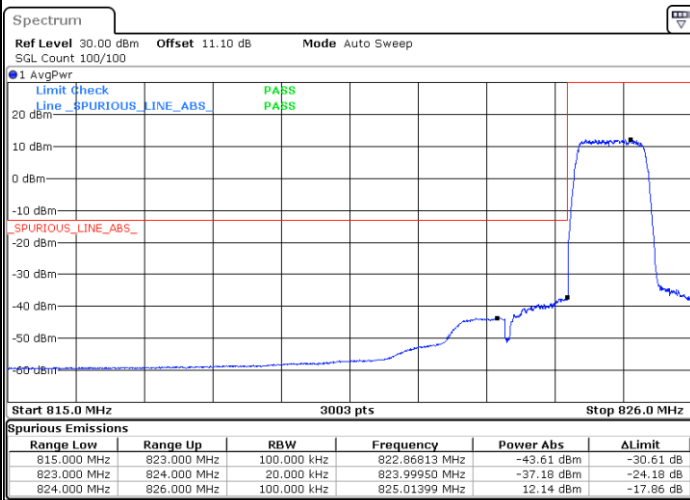
Date: 27.JUN.2021 03:10:47

### Highest Band Edge / 1RB



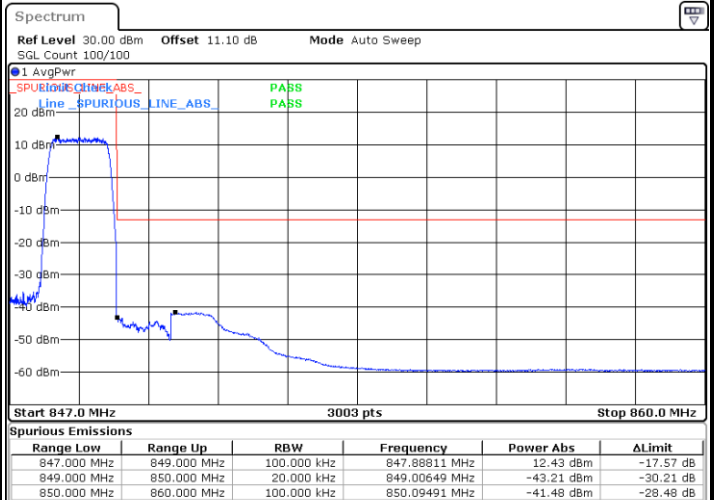
Date: 27.JUN.2021 03:24:28

### Lowest Band Edge / Full RB



Date: 27.JUN.2021 03:14:28

### Highest Band Edge / Full RB

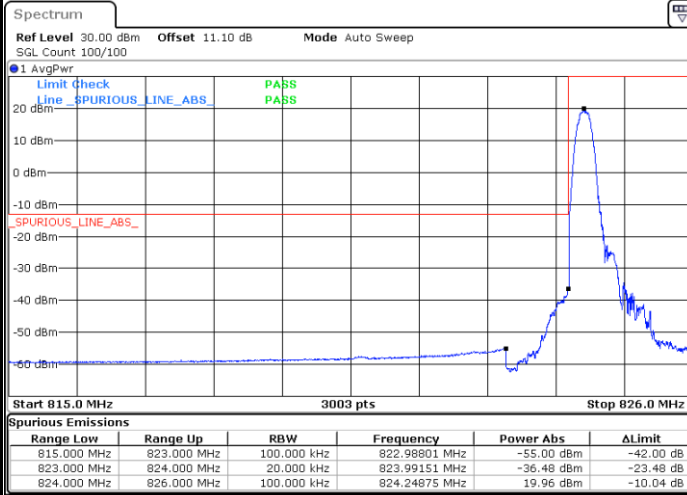


Date: 27.JUN.2021 03:20:47



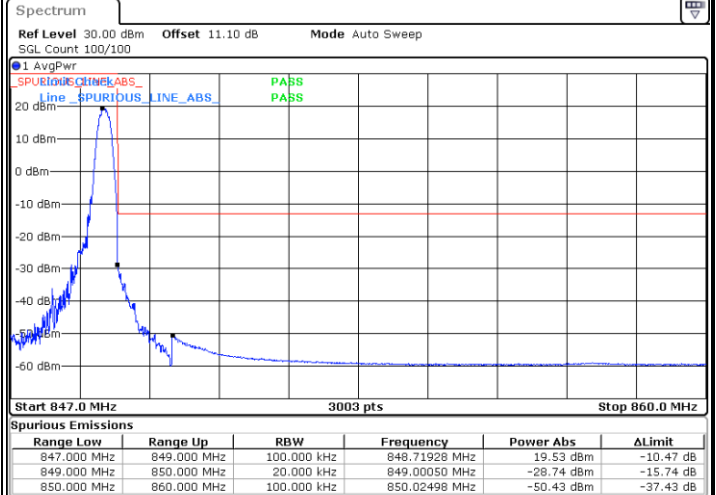
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



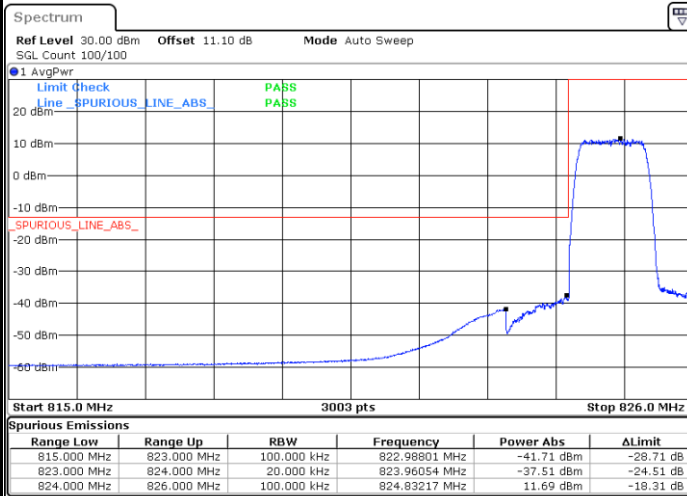
Date: 27.JUN.2021 03:12:38

Highest Band Edge / 1 RB



Date: 27.JUN.2021 03:26:18

Lowest Band Edge / Full RB



Date: 27.JUN.2021 03:16:19

Highest Band Edge / Full RB



Date: 27.JUN.2021 03:22:37



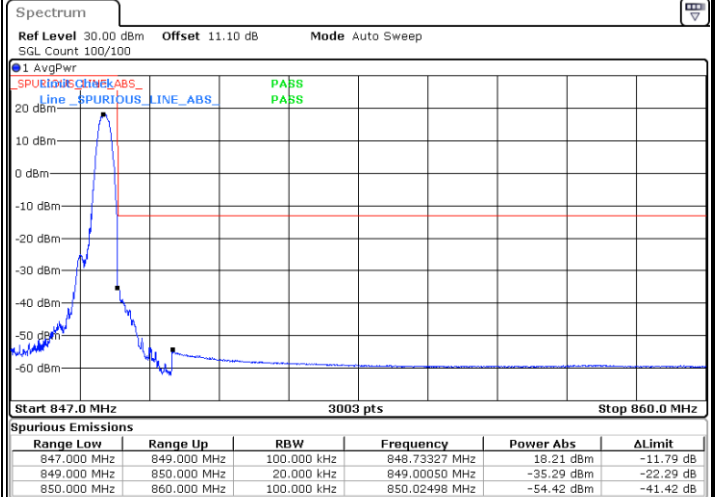
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



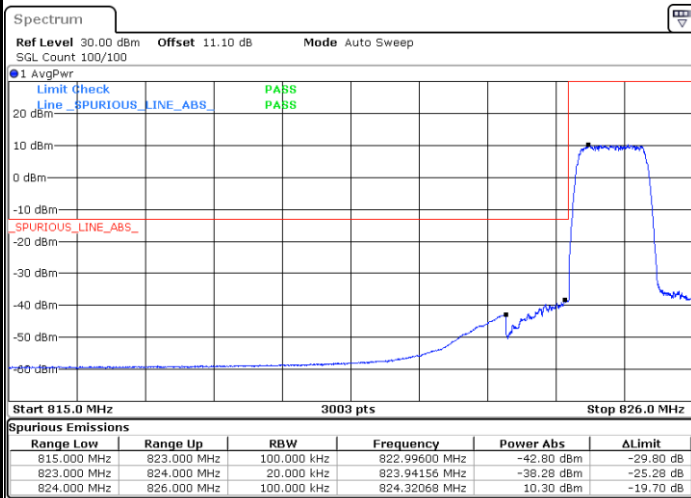
Date: 27. JUN. 2021 03:28:44

Highest Band Edge / 1 RB



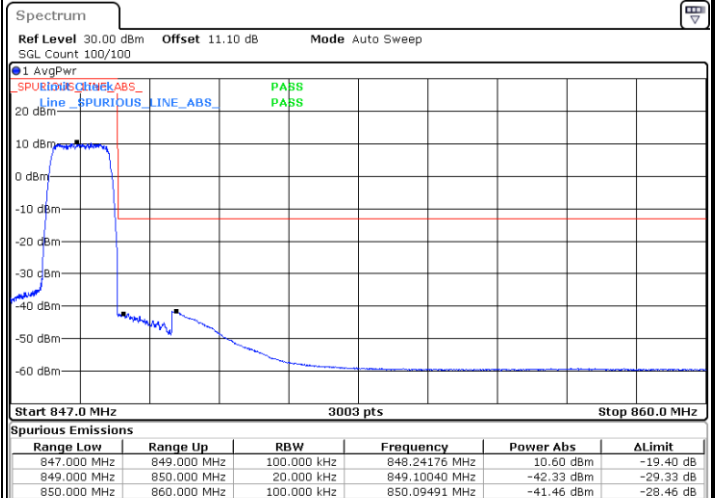
Date: 27. JUN. 2021 03:34:59

Lowest Band Edge / Full RB



Date: 27. JUN. 2021 03:30:35

Highest Band Edge / Full RB

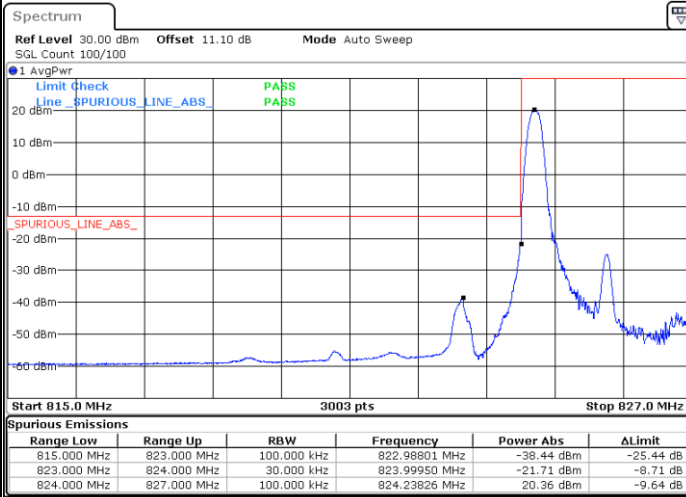


Date: 27. JUN. 2021 03:33:08



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



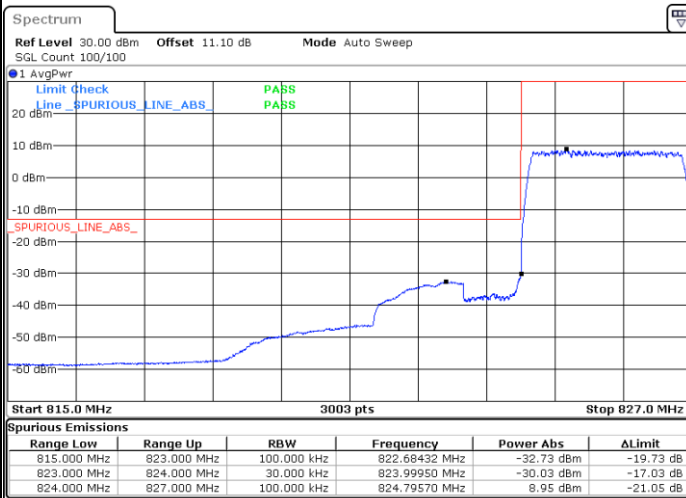
Date: 27. JUN. 2021 03:36:50

Highest Band Edge / 1 RB



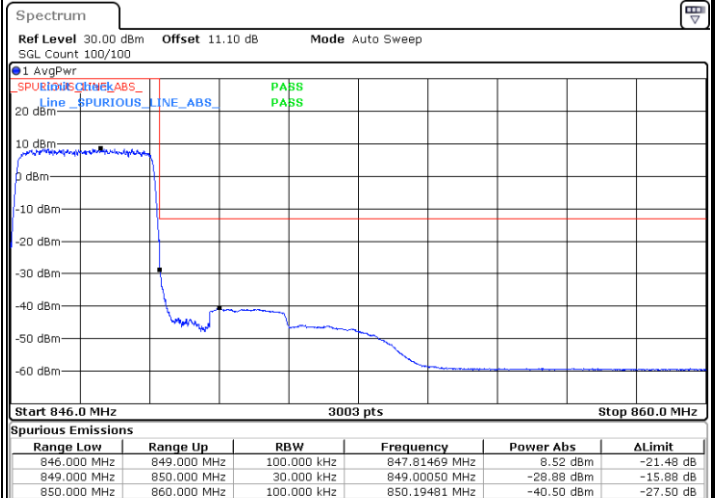
Date: 27. JUN. 2021 03:46:51

Lowest Band Edge / Full RB



Date: 27. JUN. 2021 03:40:31

Highest Band Edge / Full RB

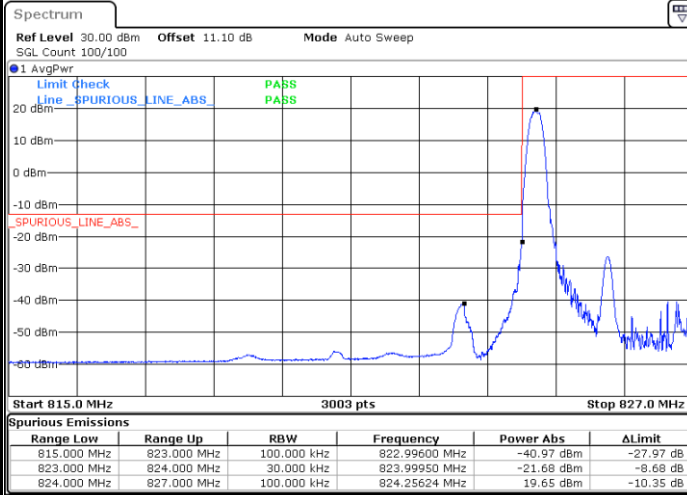


Date: 27. JUN. 2021 03:50:32



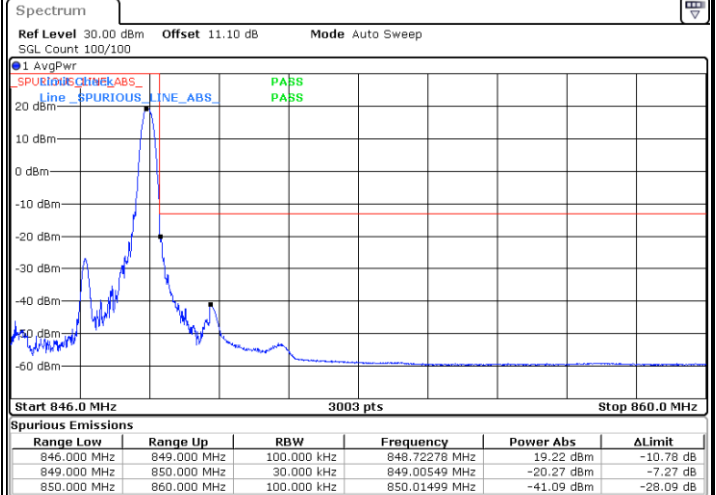
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



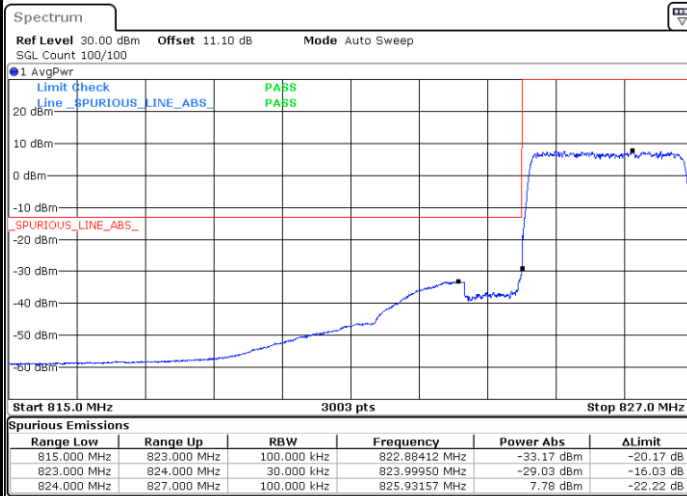
Date: 27 JUN 2021 03:38:40

Highest Band Edge / 1 RB



Date: 27 JUN 2021 03:48:41

Lowest Band Edge / Full RB



Date: 27 JUN 2021 03:42:21

Highest Band Edge / Full RB

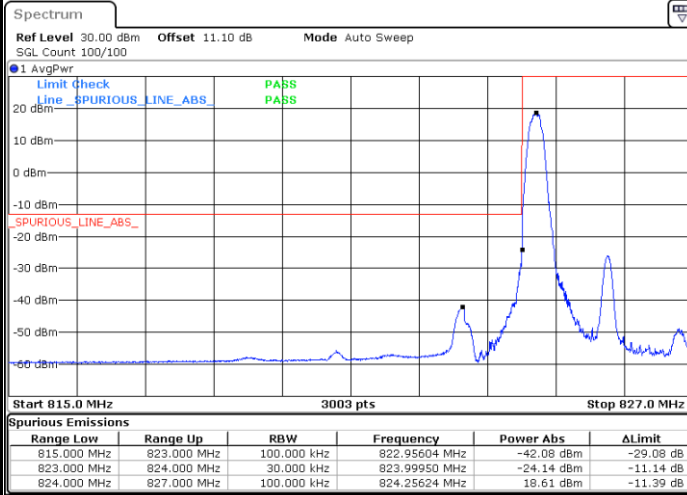


Date: 27 JUN 2021 03:52:22



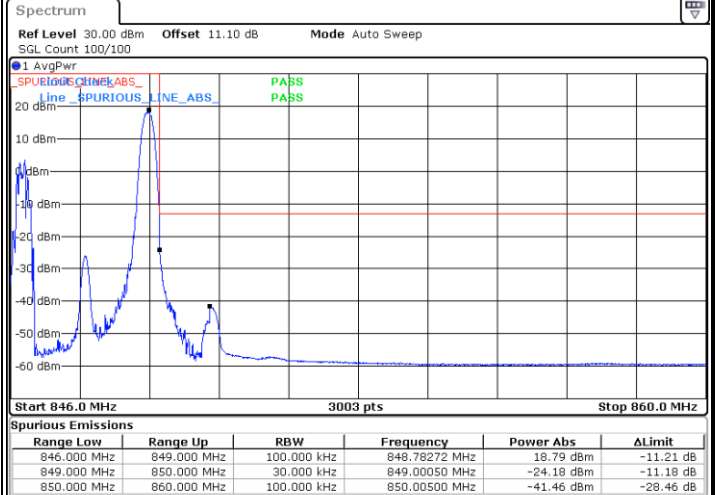
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



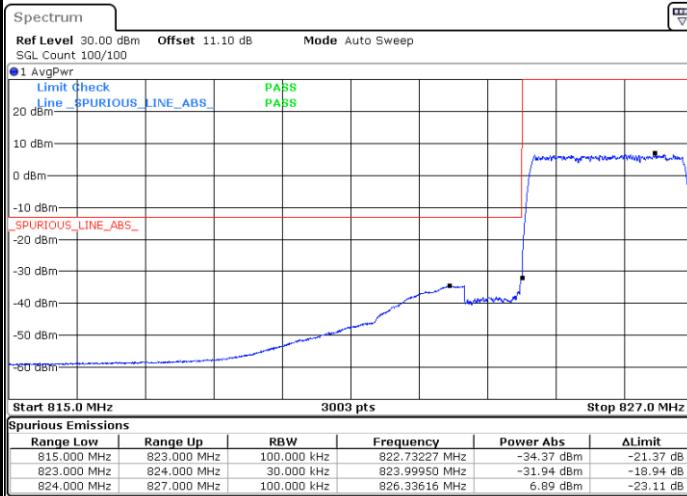
Date: 27 JUN 2021 03:54:48

Highest Band Edge / 1 RB



Date: 27 JUN 2021 03:59:12

Lowest Band Edge / Full RB



Date: 27 JUN 2021 03:56:39

Highest Band Edge / Full RB

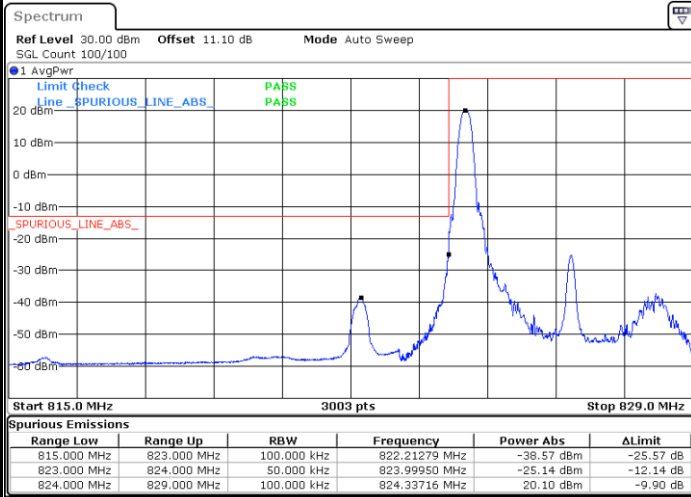


Date: 27 JUN 2021 04:01:03



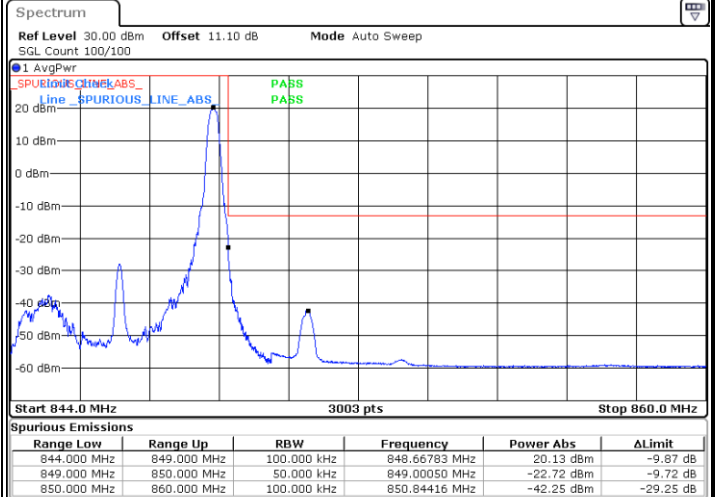
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



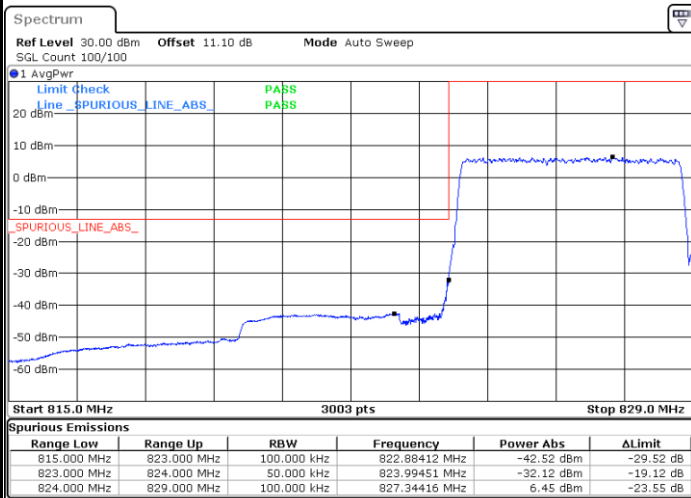
Date: 27.JUN.2021 04:02:54

Highest Band Edge / 1 RB



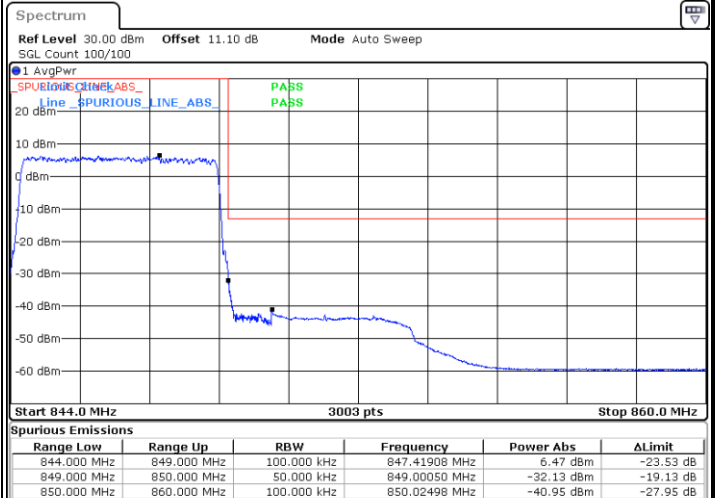
Date: 27.JUN.2021 04:12:54

Lowest Band Edge / Full RB



Date: 27.JUN.2021 04:06:34

Highest Band Edge / Full RB



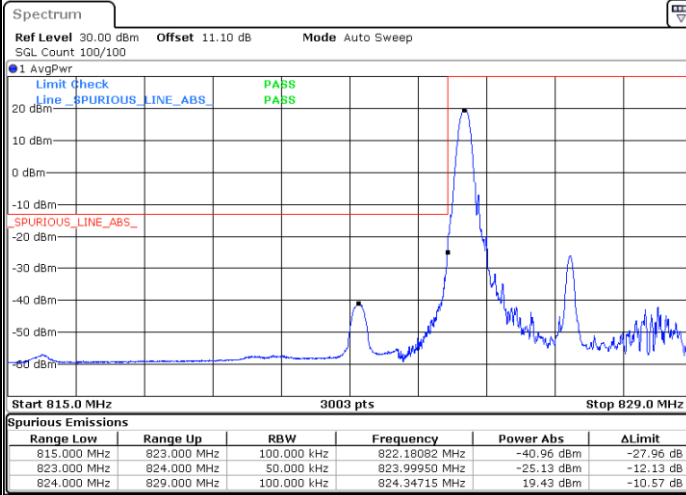
Date: 27.JUN.2021 04:16:35





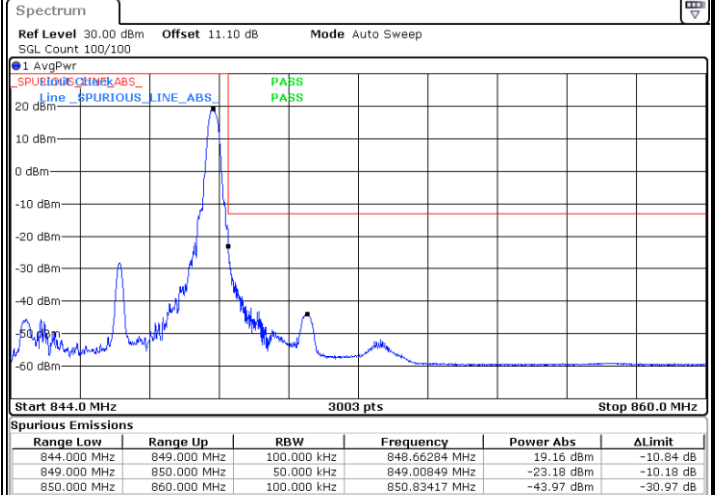
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



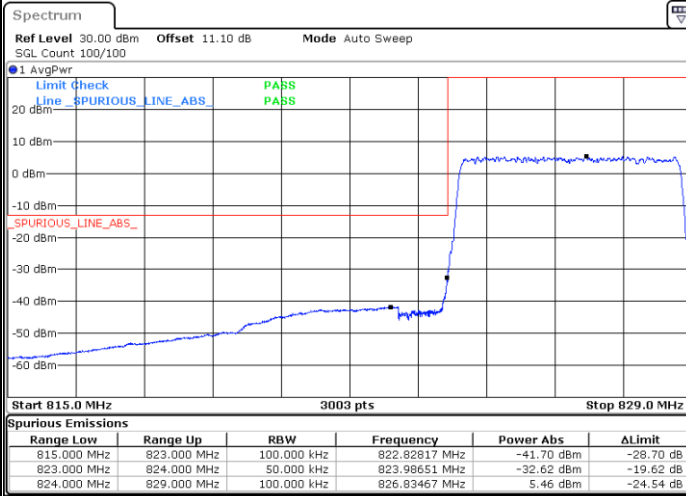
Date: 27.JUN.2021 04:04:44

Highest Band Edge / 1 RB



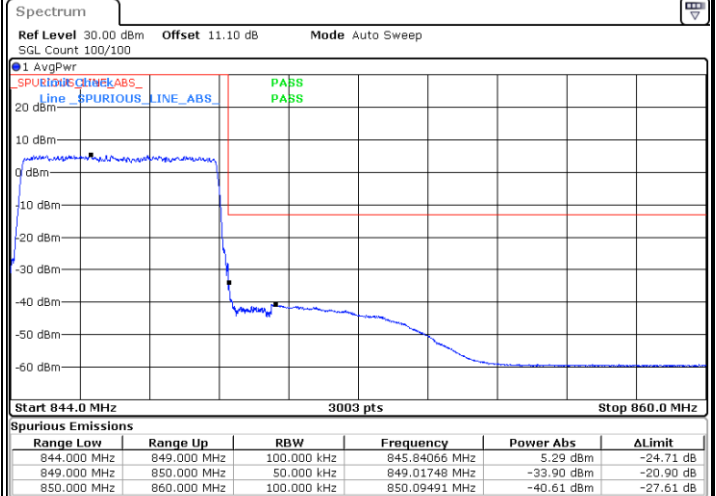
Date: 27.JUN.2021 04:14:44

Lowest Band Edge / Full RB



Date: 27.JUN.2021 04:08:25

Highest Band Edge / Full RB

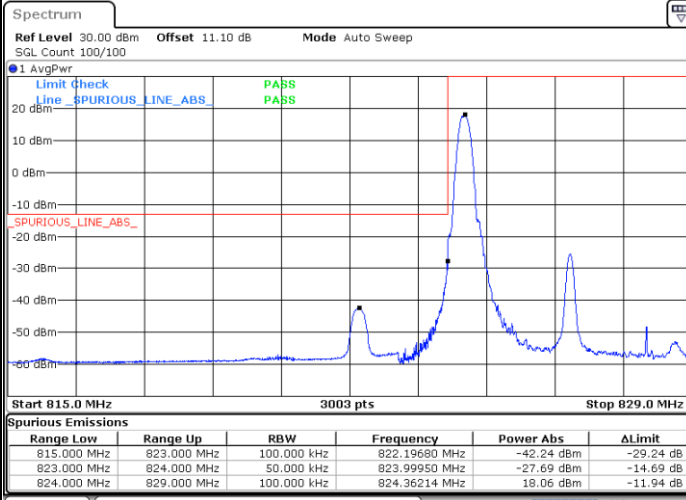


Date: 27.JUN.2021 04:18:25



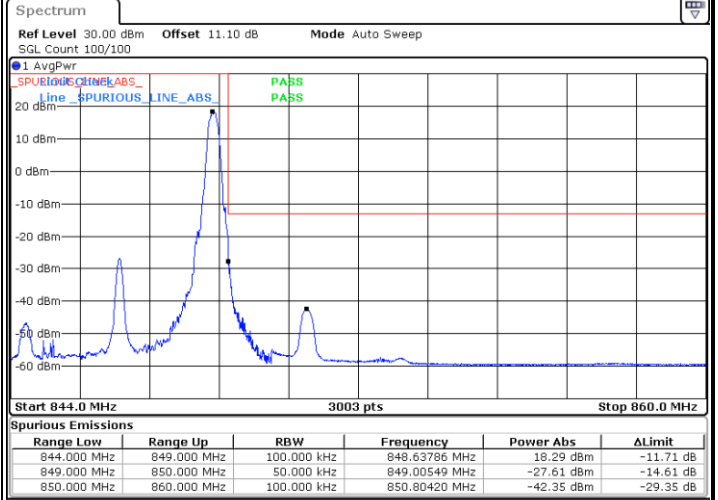
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



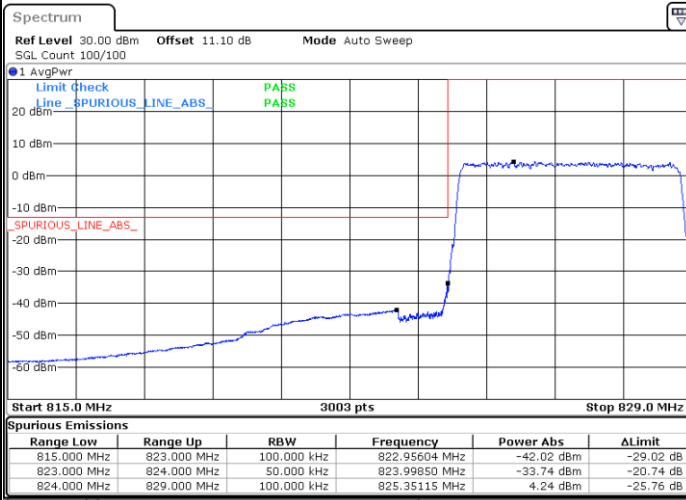
Date: 27 JUN 2021 04:20:53

Highest Band Edge / 1 RB



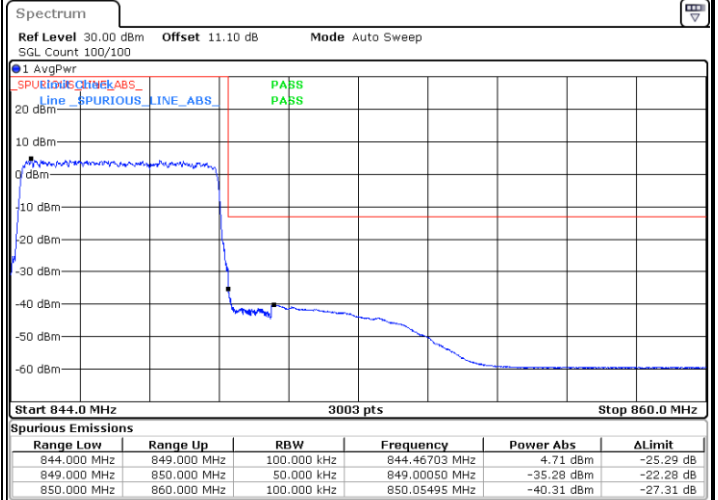
Date: 27 JUN 2021 04:25:16

Lowest Band Edge / Full RB



Date: 27 JUN 2021 04:22:43

Highest Band Edge / Full RB

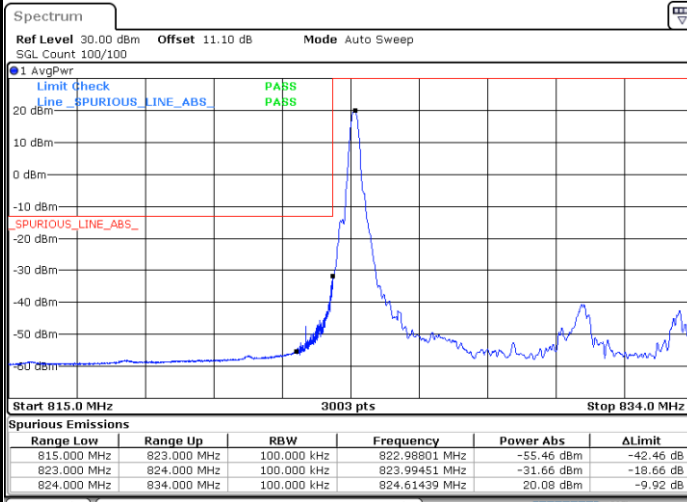


Date: 27 JUN 2021 04:27:07



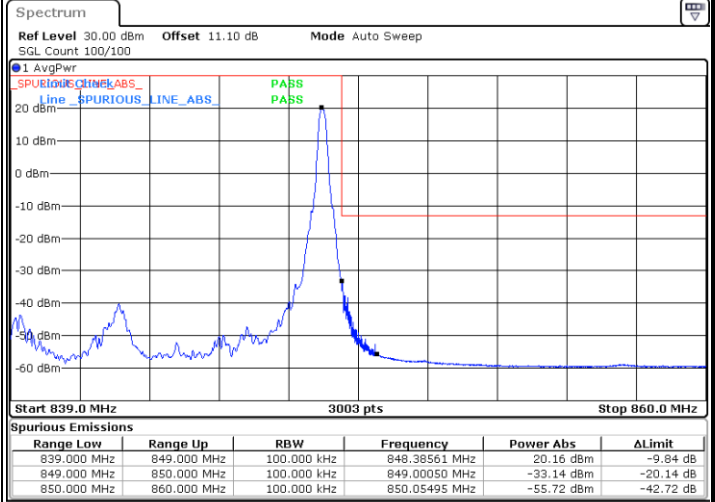
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



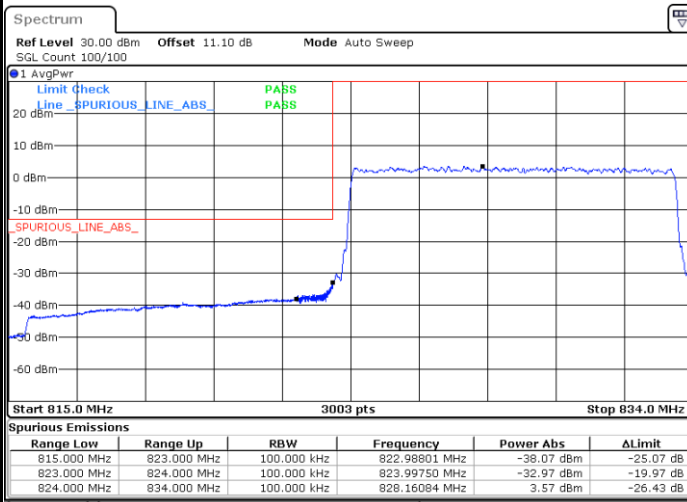
Date: 27 JUN 2021 04:28:58

Highest Band Edge / 1 RB



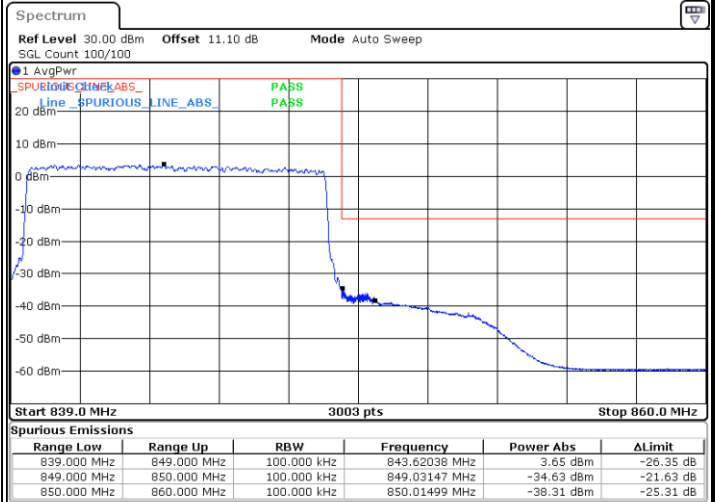
Date: 27 JUN 2021 04:38:58

Lowest Band Edge / Full RB



Date: 27 JUN 2021 04:32:39

Highest Band Edge / Full RB

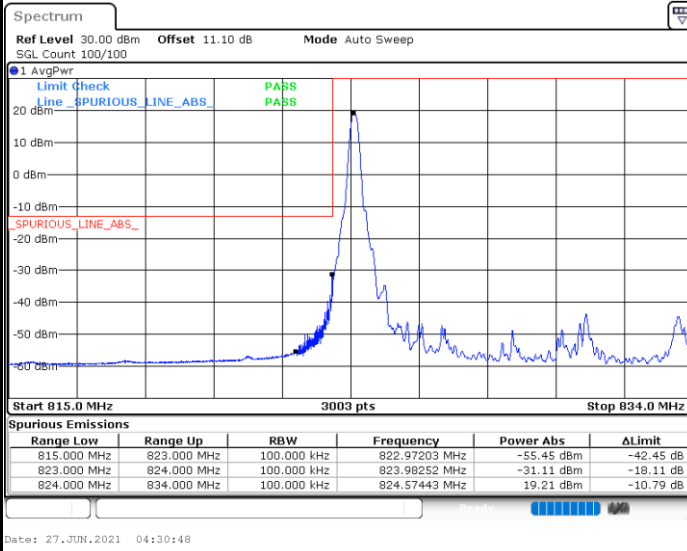


Date: 27 JUN 2021 04:42:39

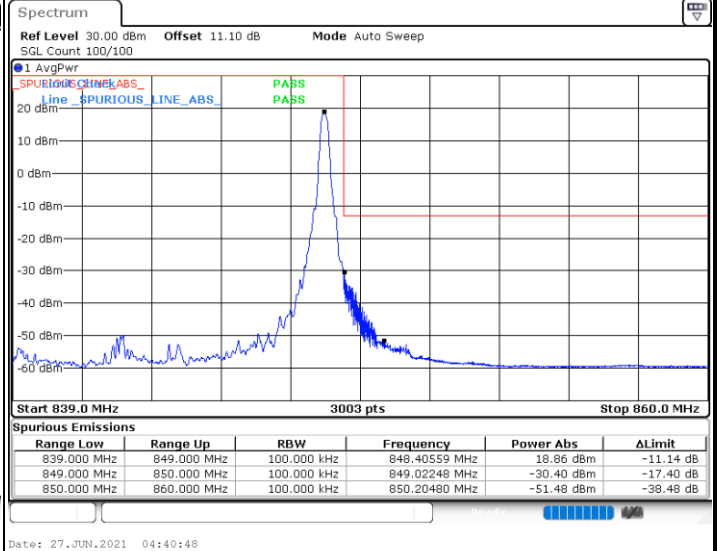


LTE Band 5 / 10MHz / 16QAM

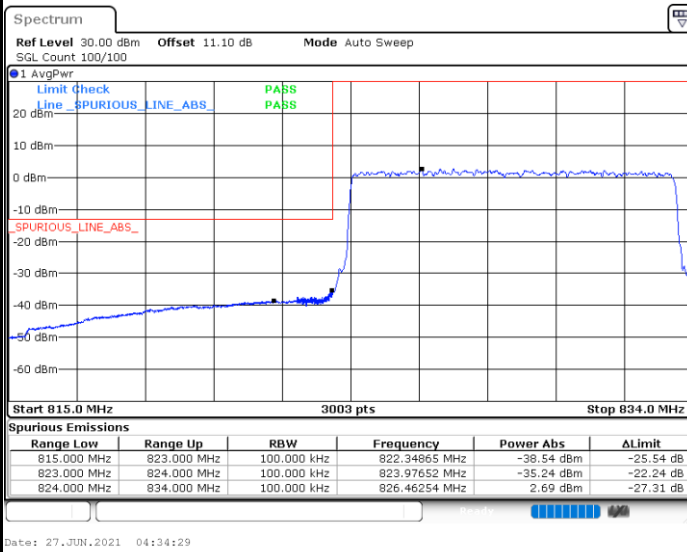
Lowest Band Edge / 1 RB



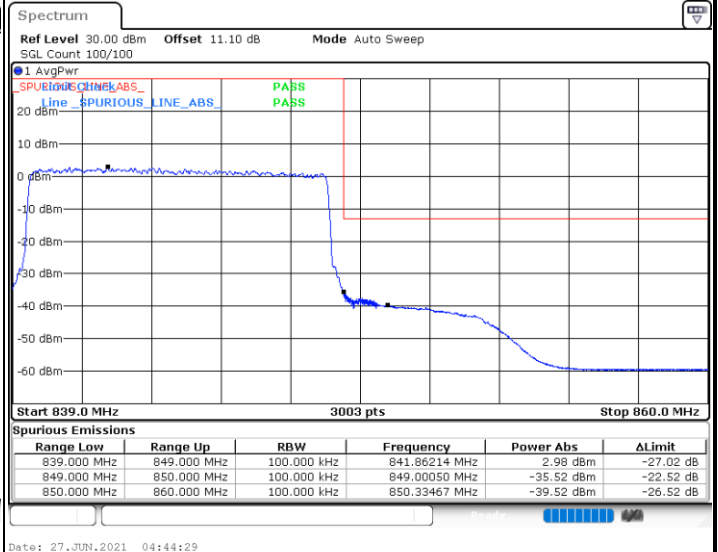
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



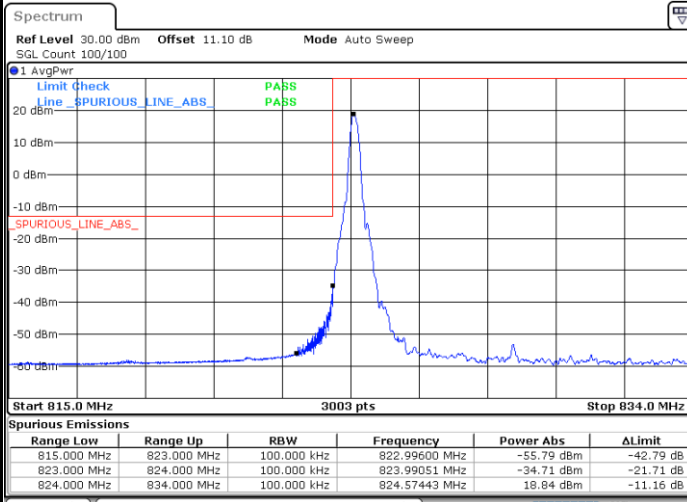
Highest Band Edge / Full RB





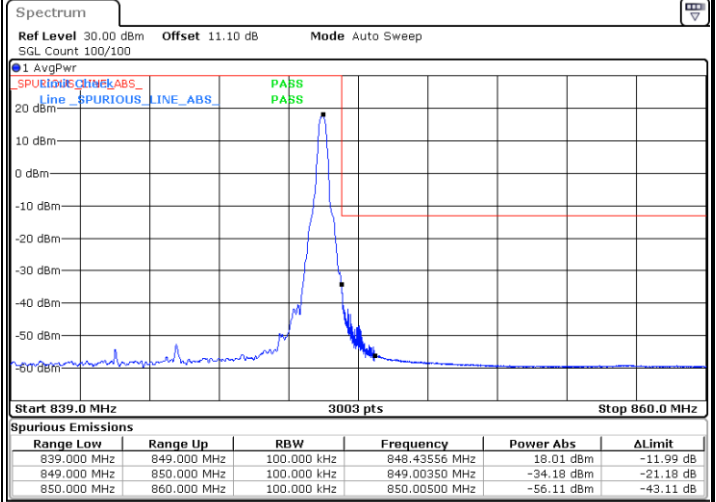
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



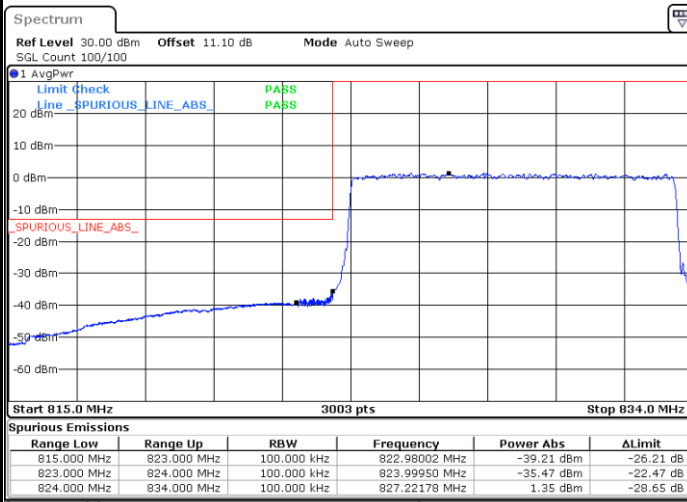
Date: 27.JUN.2021 04:46:56

Highest Band Edge / 1 RB



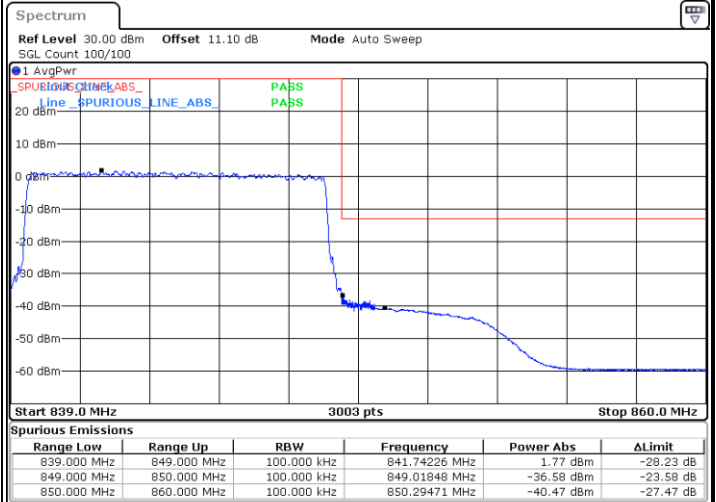
Date: 27.JUN.2021 04:51:20

Lowest Band Edge / Full RB



Date: 27.JUN.2021 04:48:46

Highest Band Edge / Full RB



Date: 27.JUN.2021 04:53:10

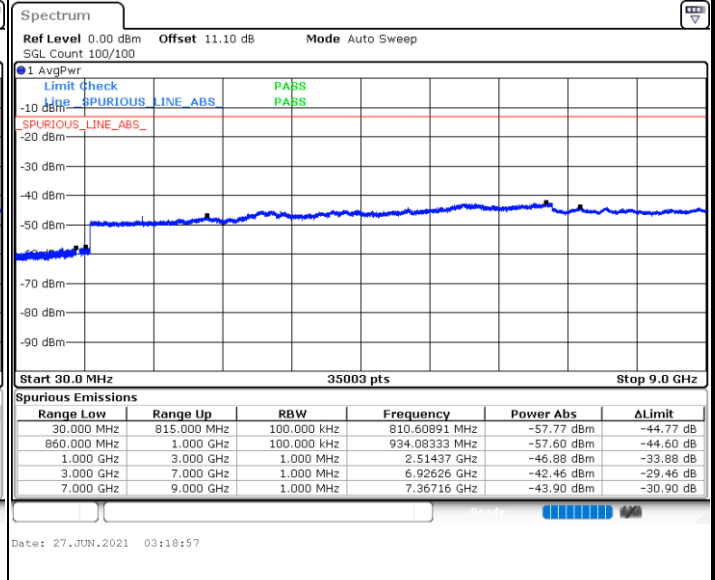
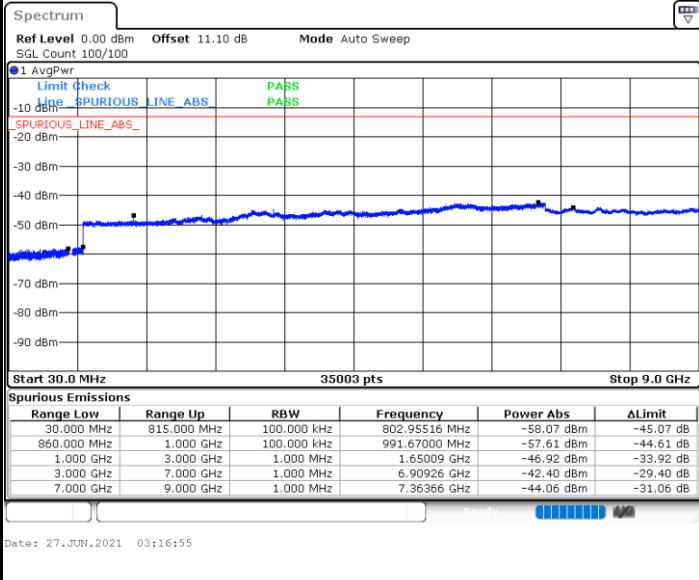


# Conducted Spurious Emission

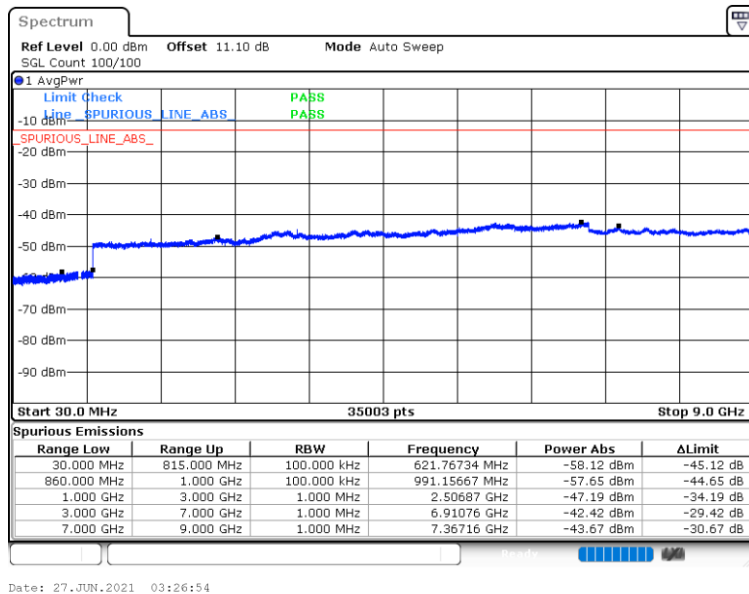
## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK

### Middle Channel / QPSK



### Highest Channel / QPSK

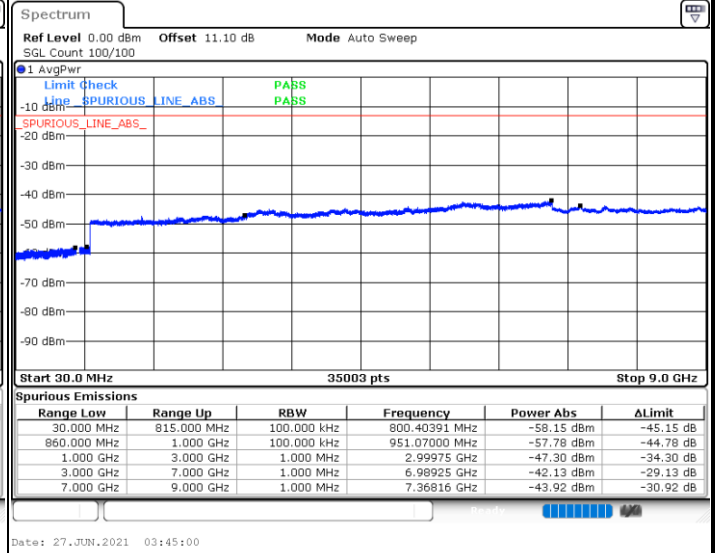
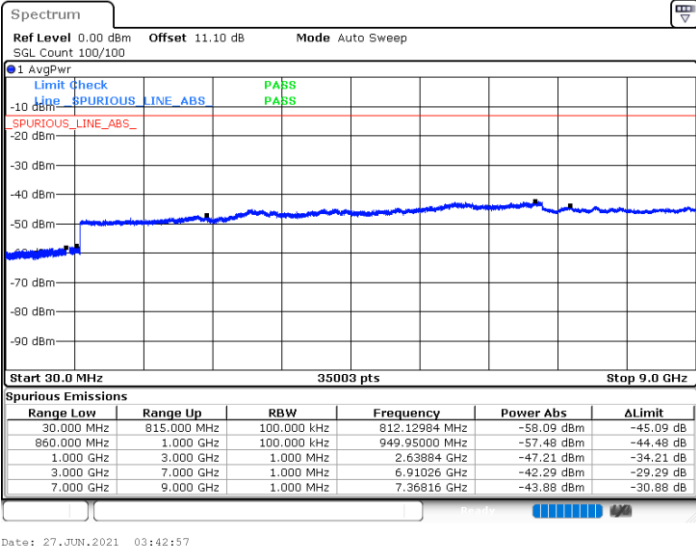




LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

