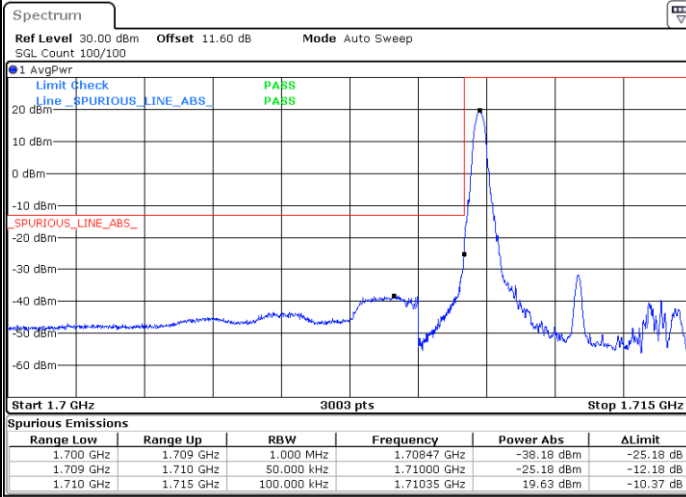




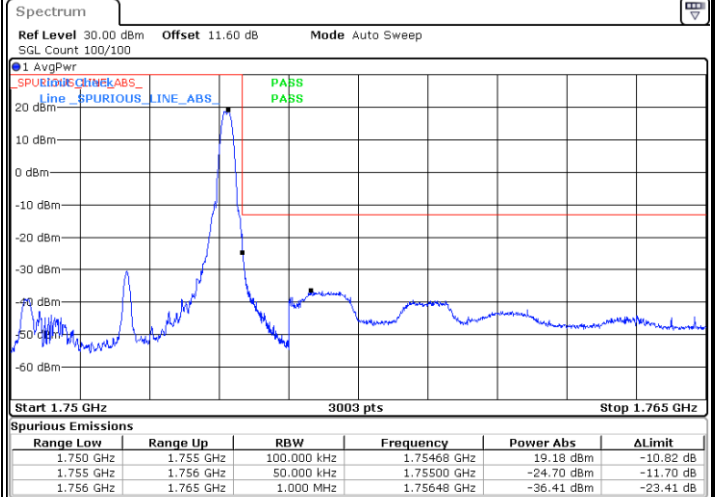
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



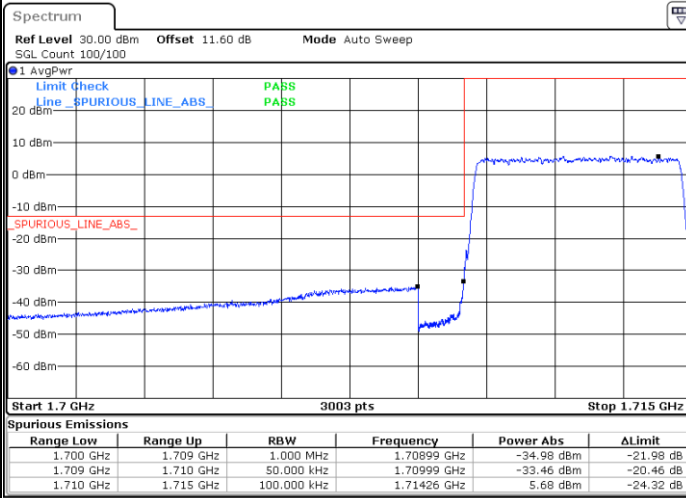
Date: 20.DEC.2021 17:49:08

Highest Band Edge / 1 RB



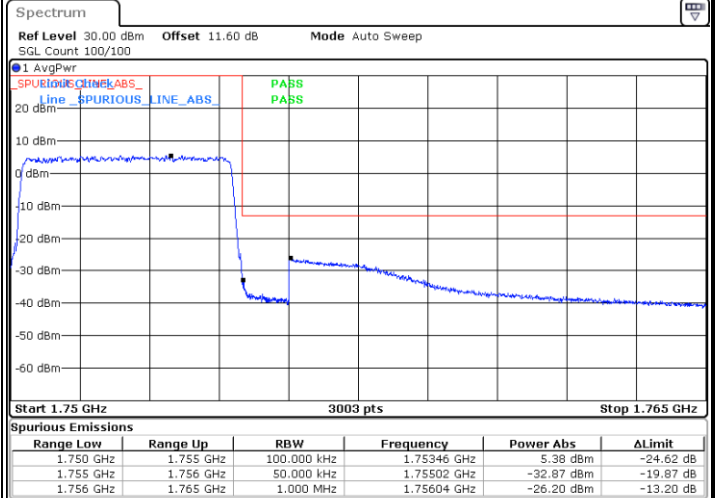
Date: 21.DEC.2021 08:56:24

Lowest Band Edge / Full RB



Date: 20.DEC.2021 17:49:55

Highest Band Edge / Full RB

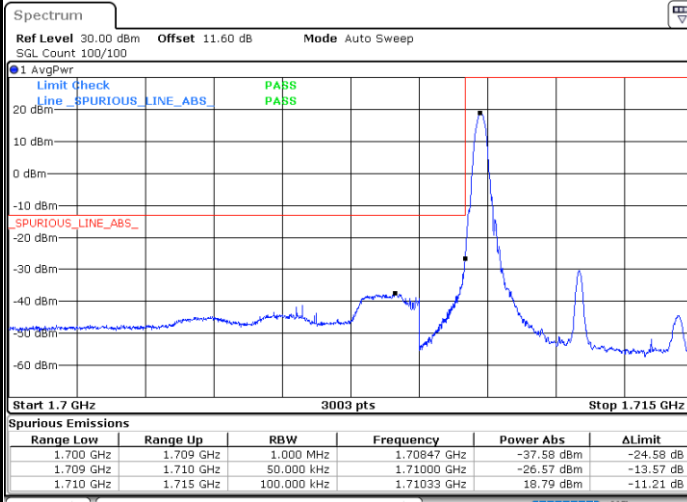


Date: 21.DEC.2021 08:57:11



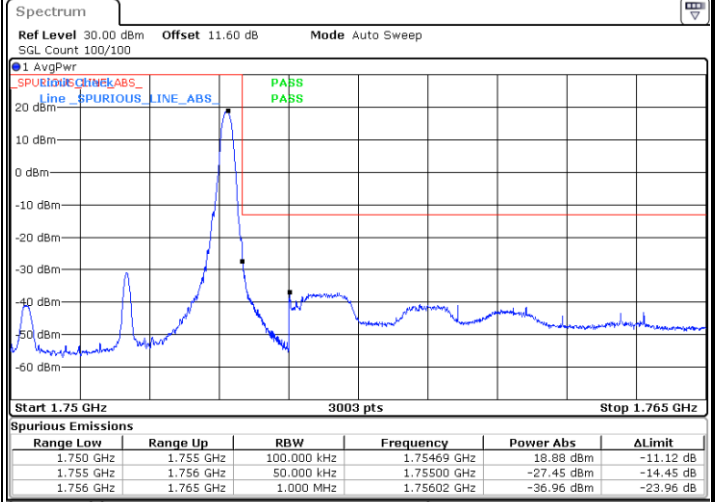
LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / 1RB



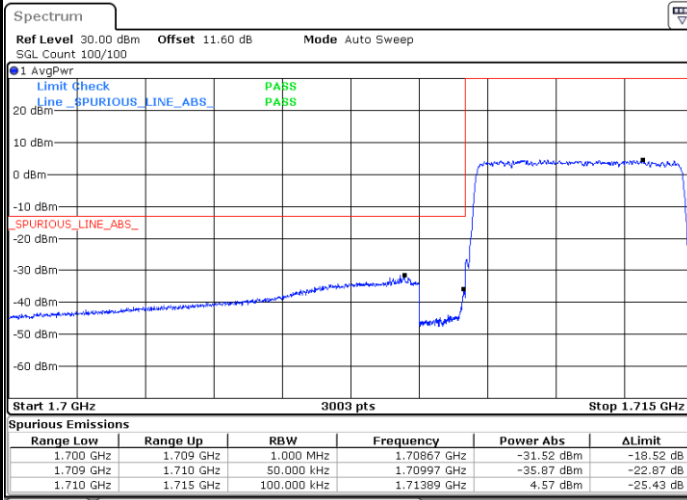
Date: 20.DEC.2021 17:46:30

Highest Band Edge / 1 RB



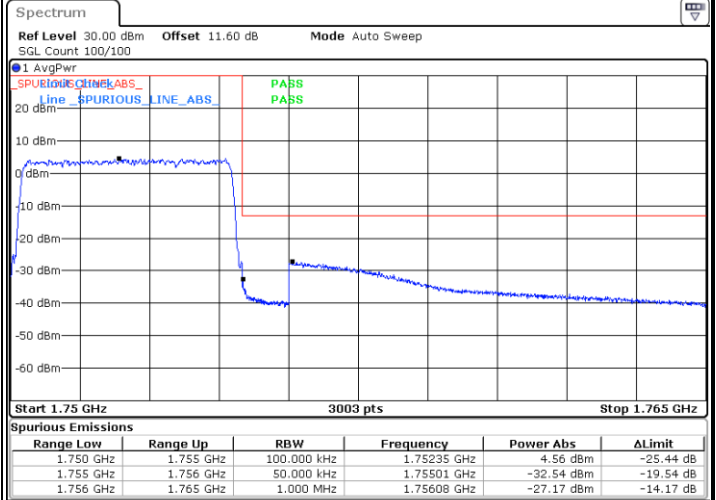
Date: 20.DEC.2021 17:47:58

Lowest Band Edge / Full RB



Date: 20.DEC.2021 17:46:53

Highest Band Edge / Full RB

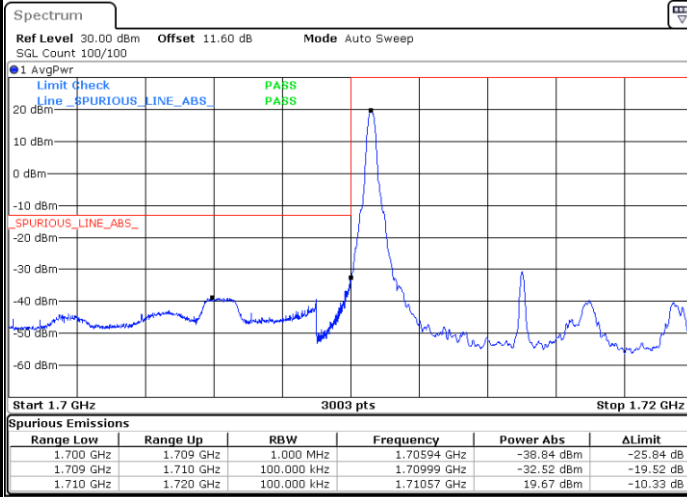


Date: 20.DEC.2021 17:48:21



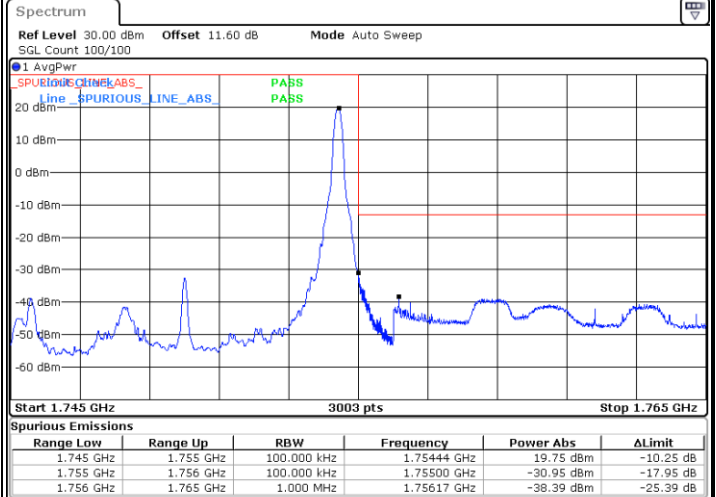
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



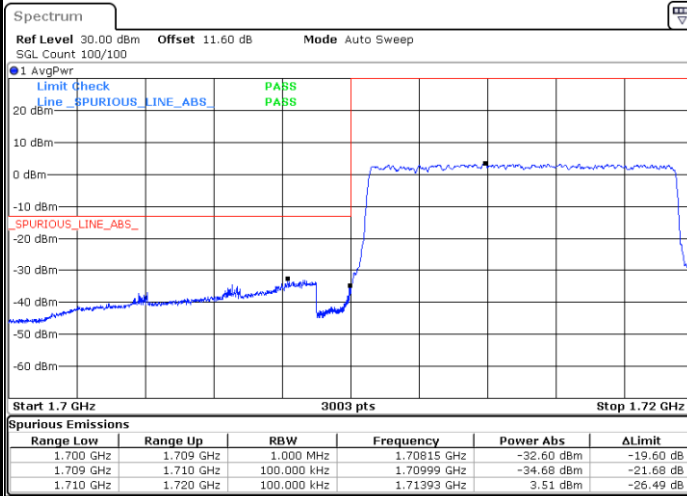
Date: 21.DEC.2021 09:01:43

Highest Band Edge / 1 RB



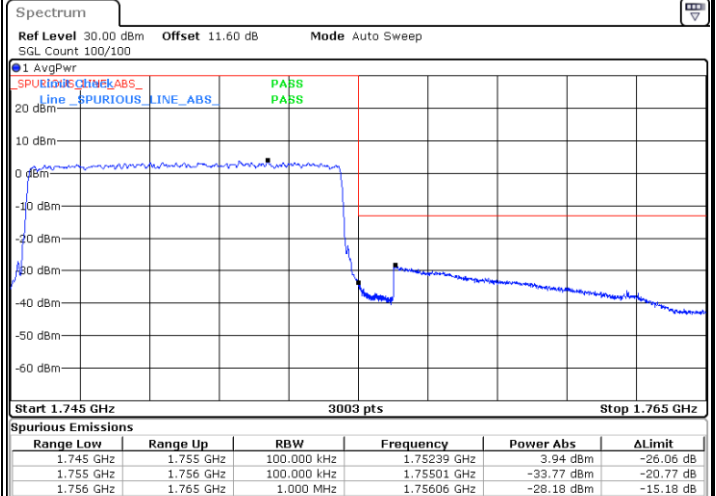
Date: 21.DEC.2021 09:06:19

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:02:30

Highest Band Edge / Full RB

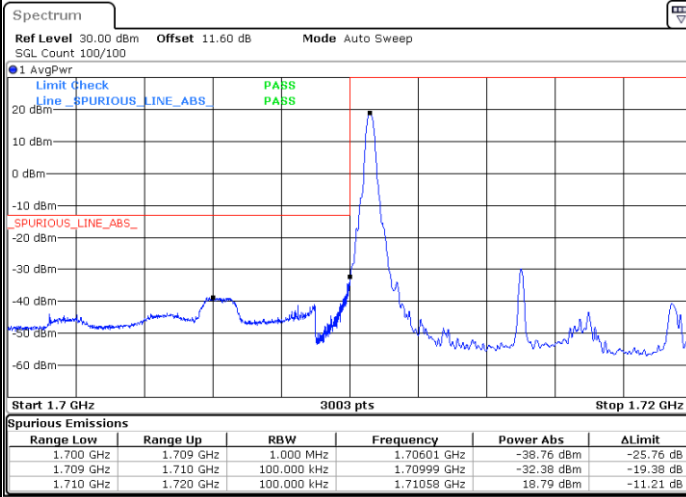


Date: 21.DEC.2021 09:07:06



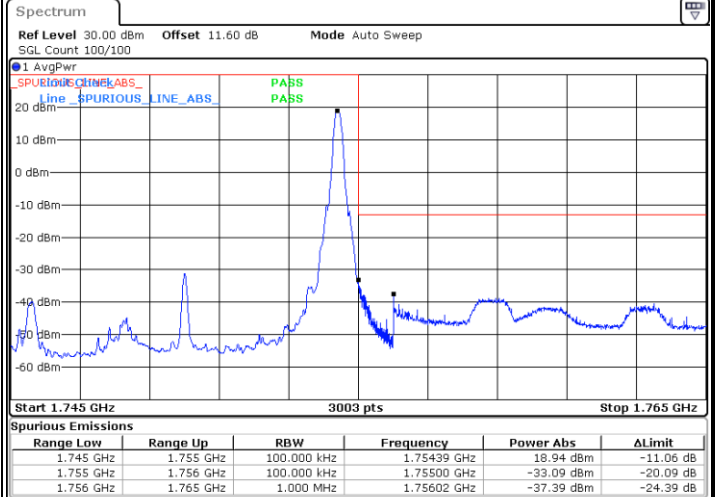
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



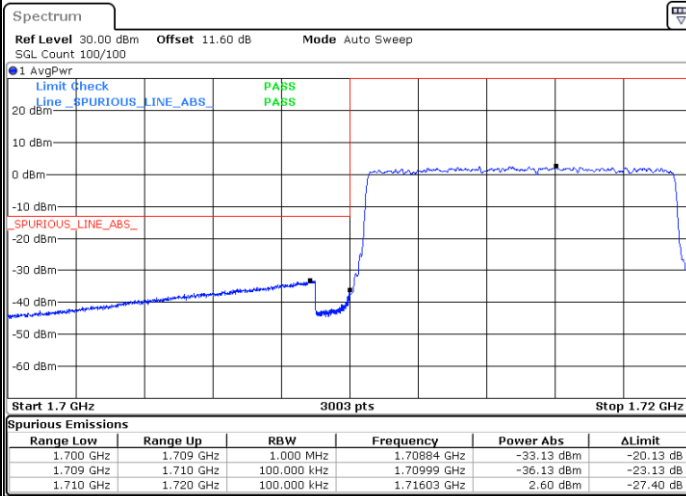
Date: 21.DEC.2021 09:02:06

Highest Band Edge / 1 RB



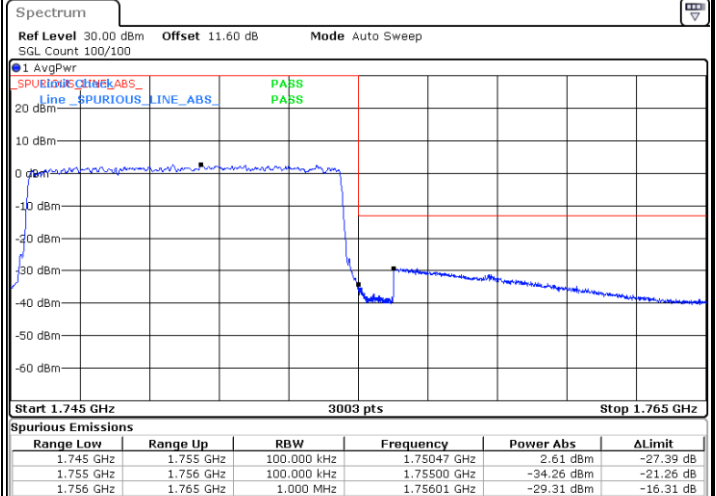
Date: 21.DEC.2021 09:06:43

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:02:53

Highest Band Edge / Full RB

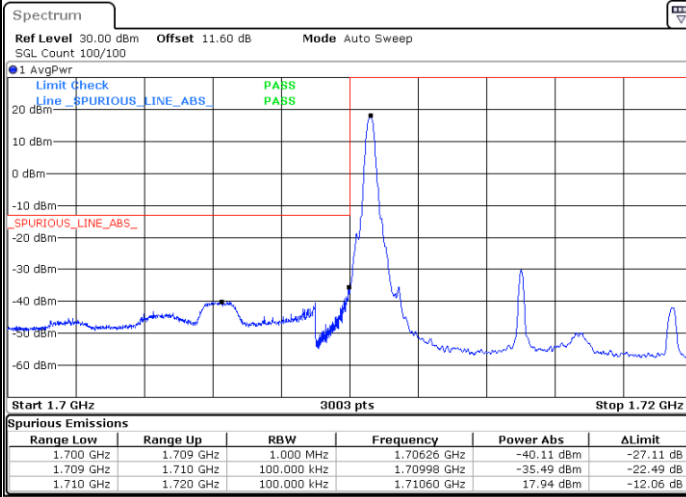


Date: 21.DEC.2021 09:07:29



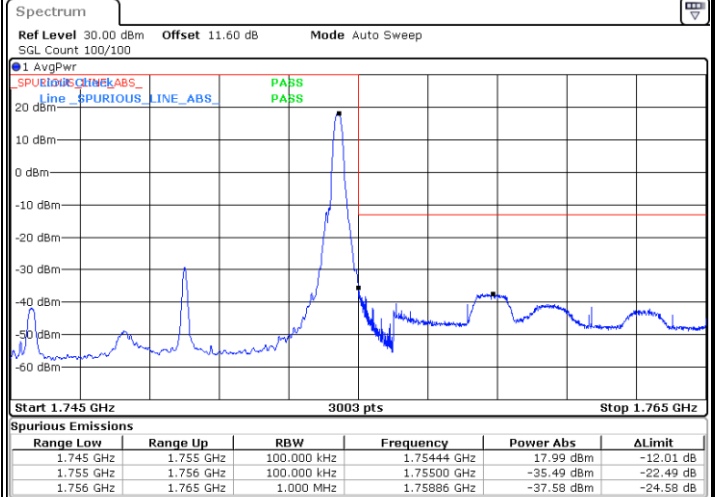
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



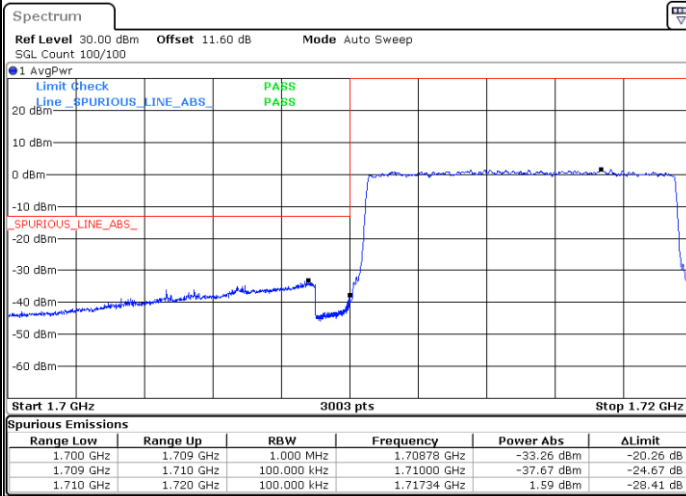
Date: 21.DEC.2021 09:11:16

Highest Band Edge / 1 RB



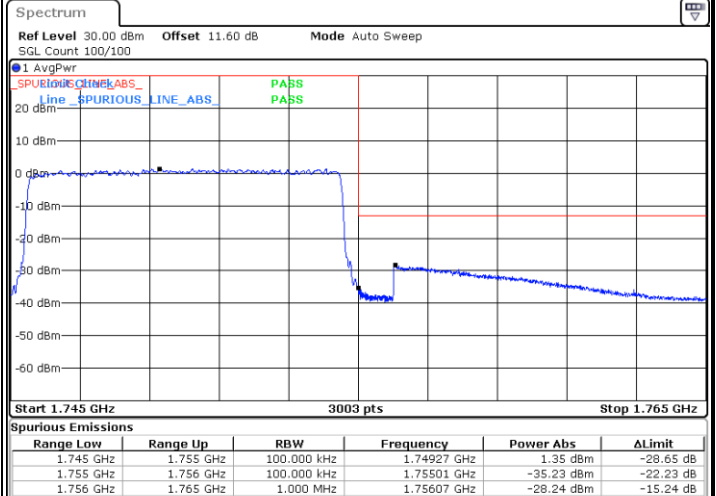
Date: 21.DEC.2021 09:12:44

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:11:39

Highest Band Edge / Full RB

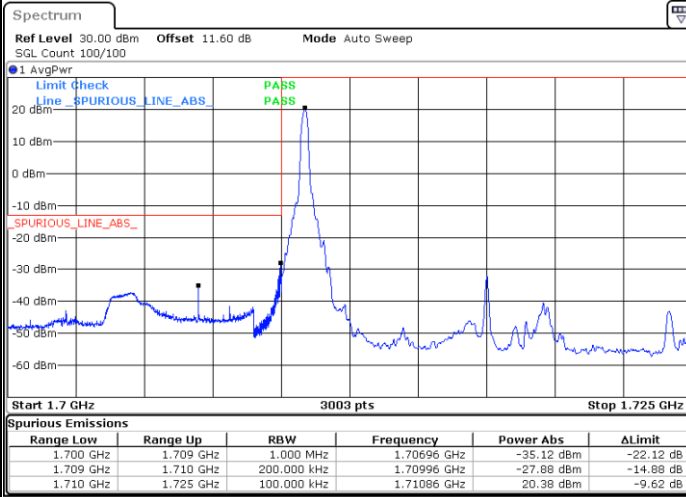


Date: 21.DEC.2021 09:13:07



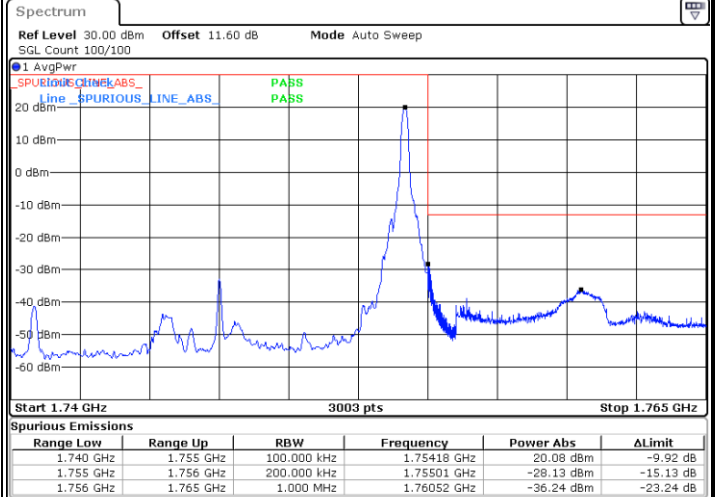
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



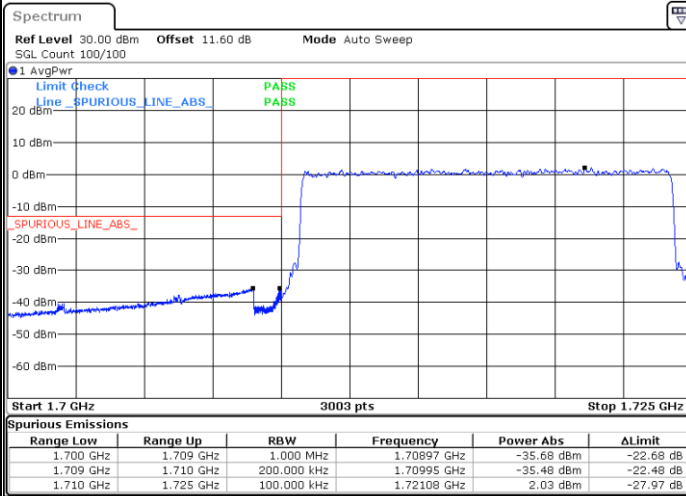
Date: 21.DEC.2021 09:13:31

Highest Band Edge / 1 RB



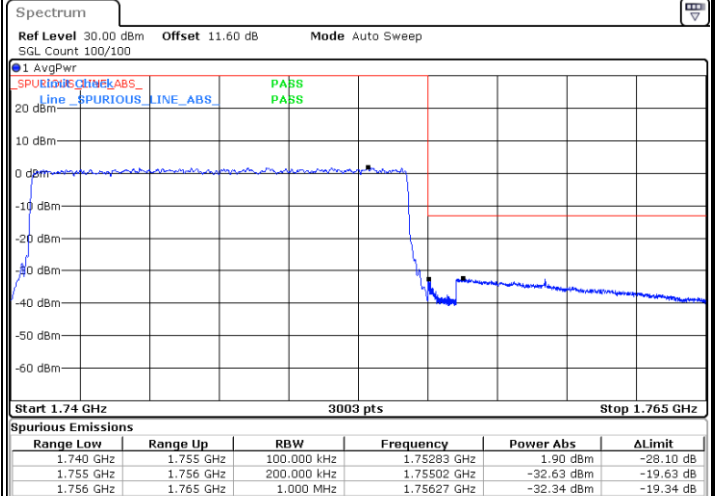
Date: 21.DEC.2021 09:18:07

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:14:18

Highest Band Edge / Full RB

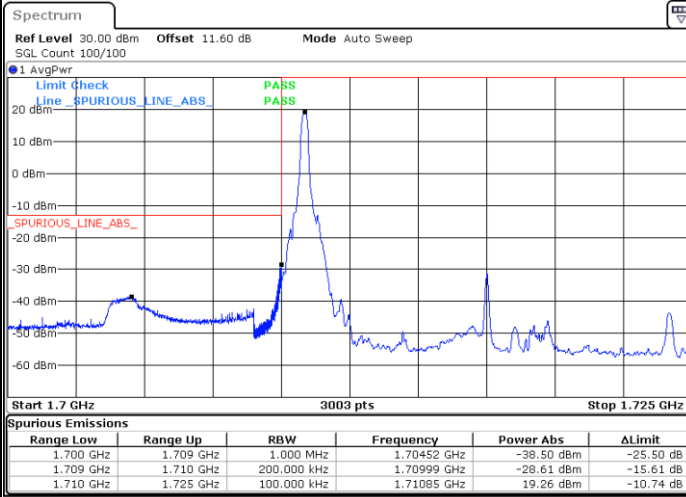


Date: 21.DEC.2021 09:18:54



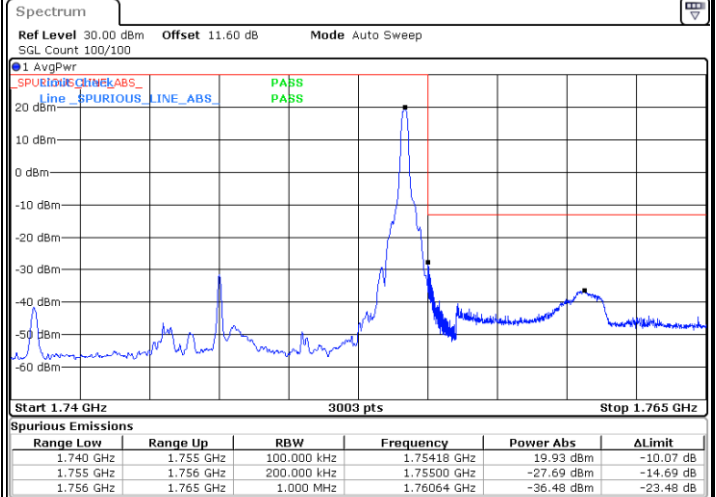
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



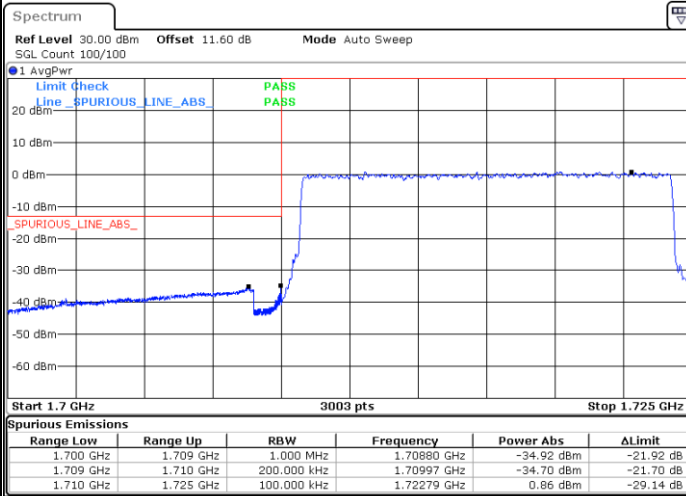
Date: 21.DEC.2021 09:13:55

Highest Band Edge / 1 RB



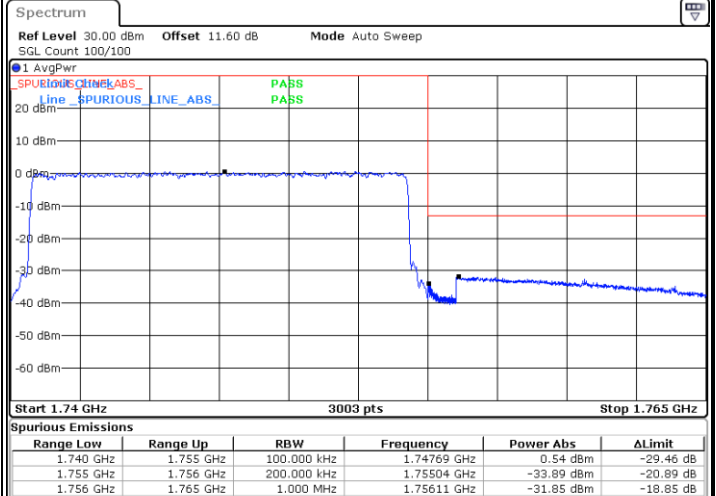
Date: 21.DEC.2021 09:18:30

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:14:41

Highest Band Edge / Full RB

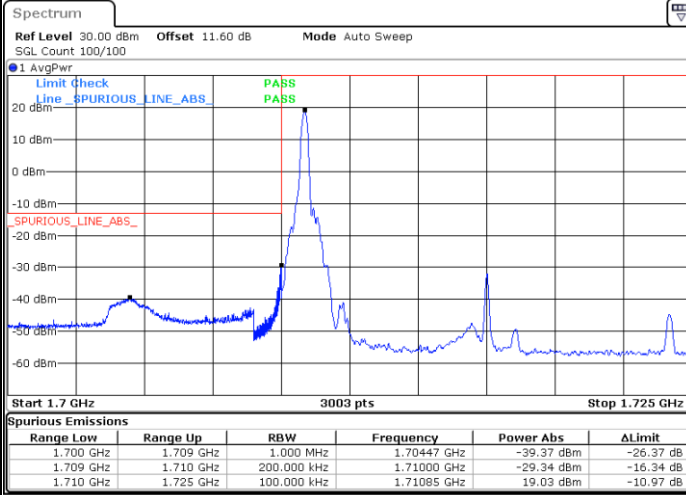


Date: 21.DEC.2021 09:19:17



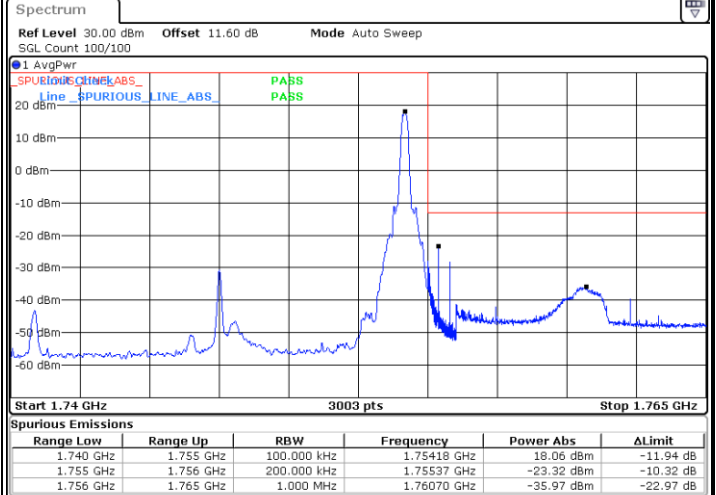
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



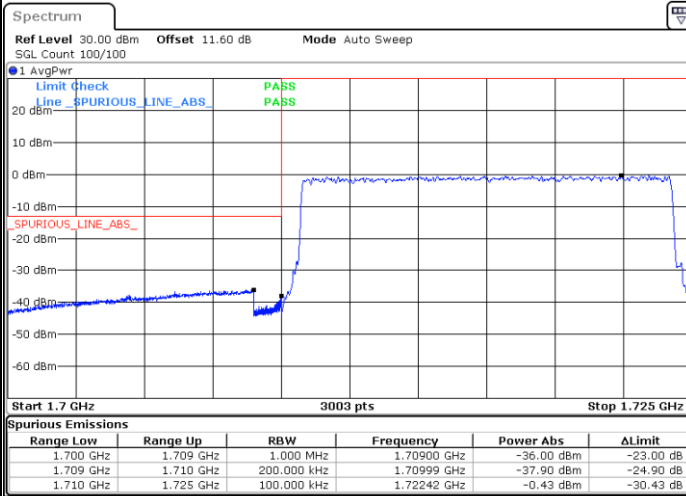
Date: 21.DEC.2021 09:20:30

Highest Band Edge / 1 RB



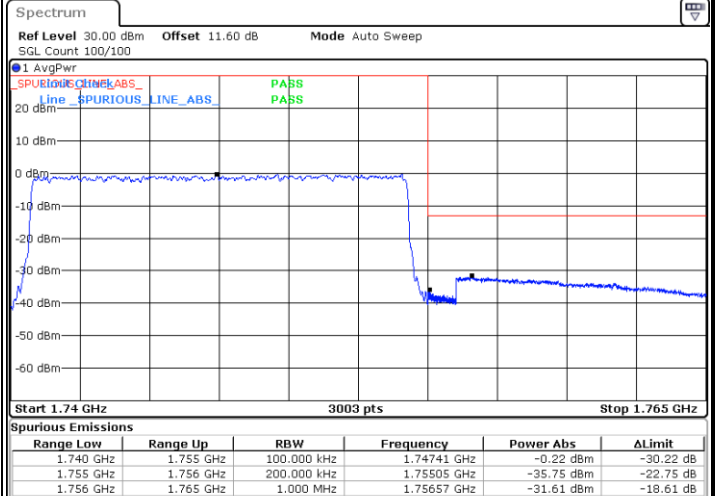
Date: 21.DEC.2021 09:21:58

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:20:53

Highest Band Edge / Full RB

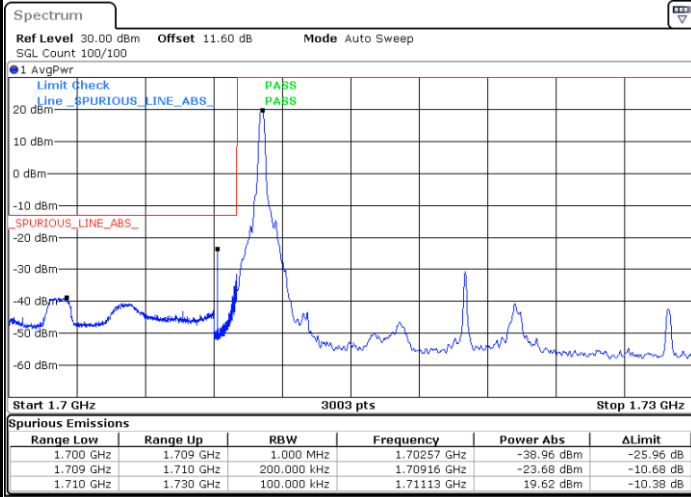


Date: 21.DEC.2021 09:22:21



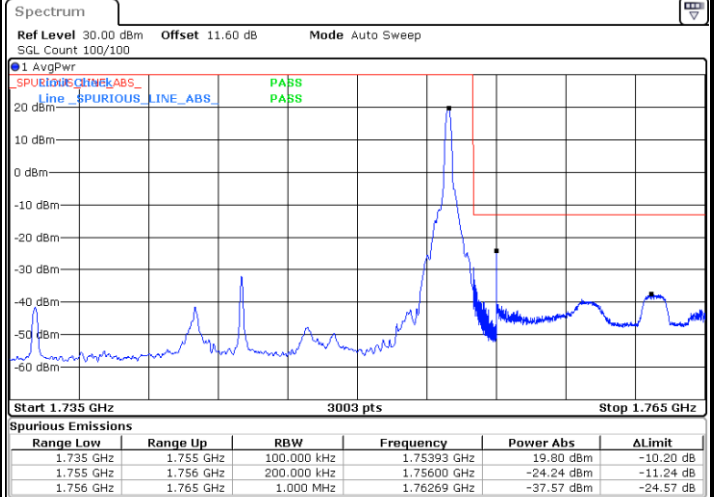
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



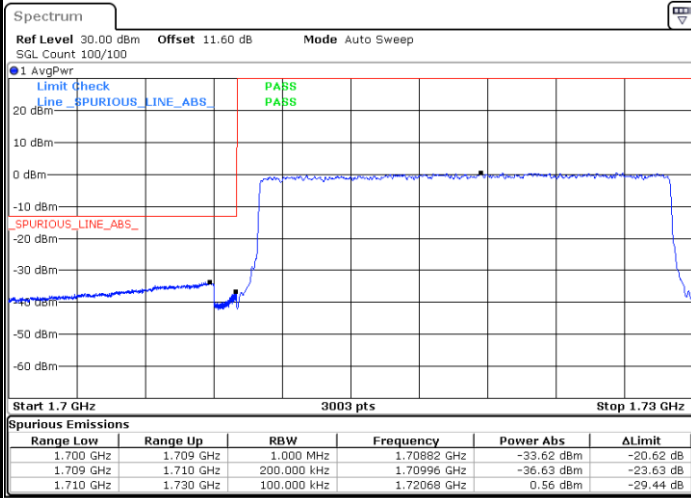
Date: 21.DEC.2021 09:22:45

Highest Band Edge / 1 RB



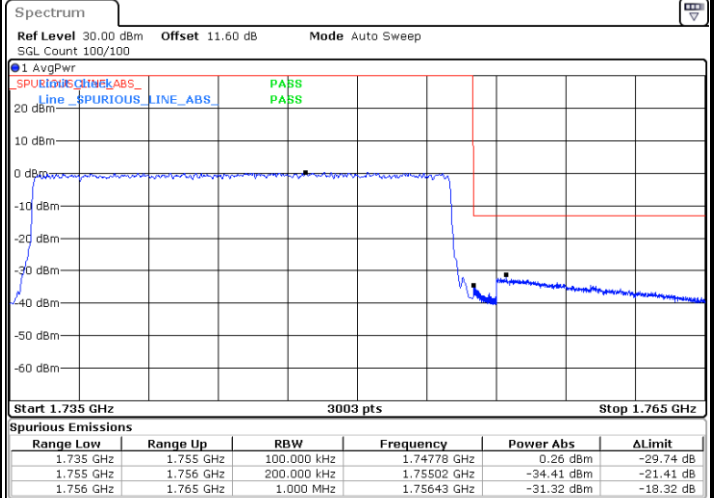
Date: 21.DEC.2021 09:28:31

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:24:42

Highest Band Edge / Full RB

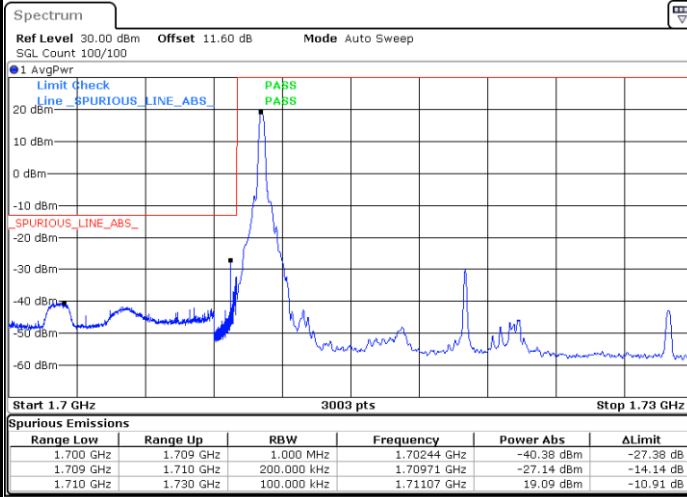


Date: 21.DEC.2021 09:29:18



LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



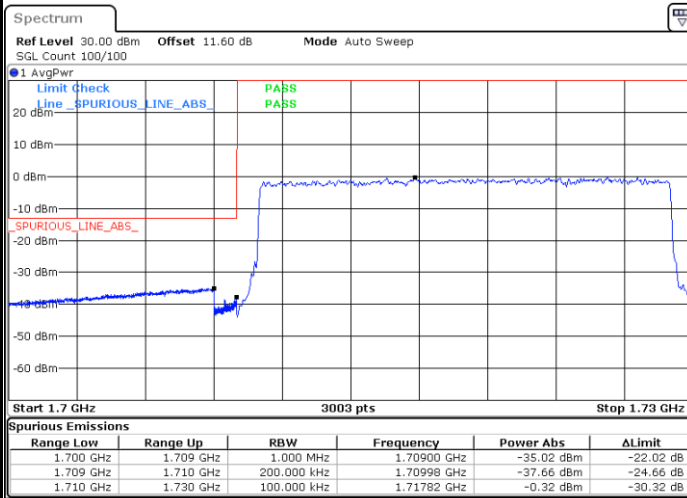
Date: 21.DEC.2021 09:24:19

Highest Band Edge / 1 RB



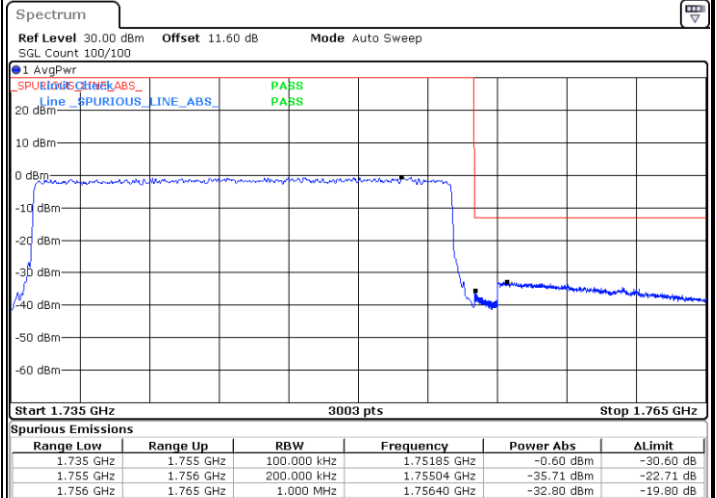
Date: 21.DEC.2021 09:28:55

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:25:06

Highest Band Edge / Full RB

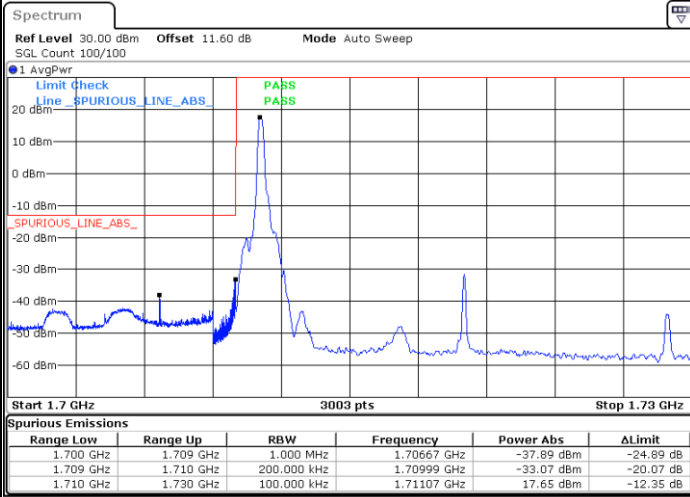


Date: 21.DEC.2021 09:29:41



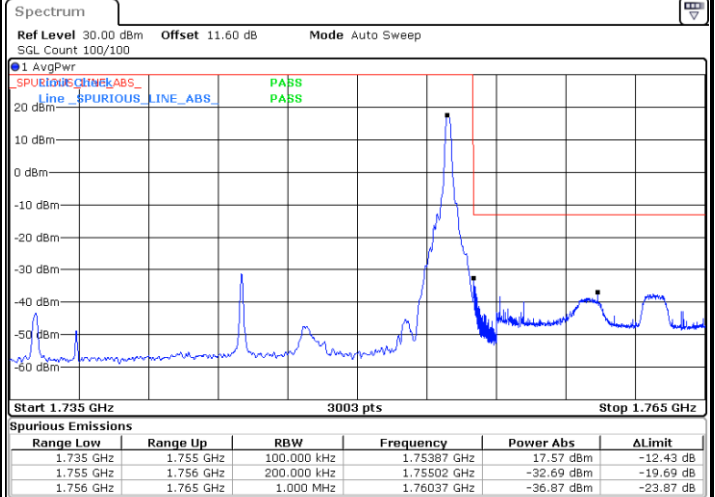
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



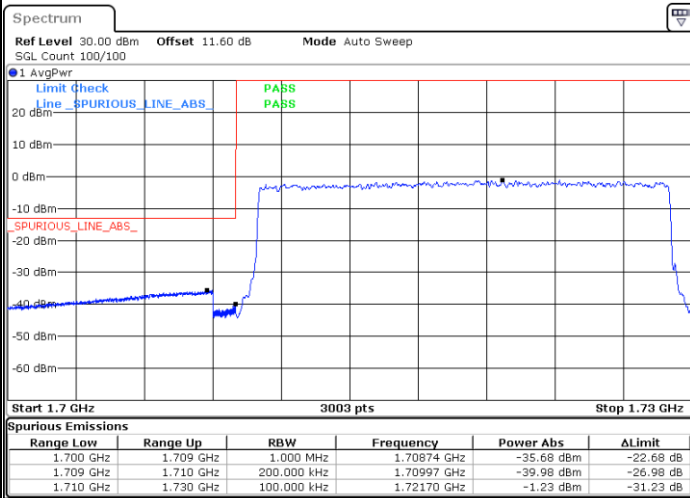
Date: 21.DEC.2021 09:30:54

Highest Band Edge / 1 RB



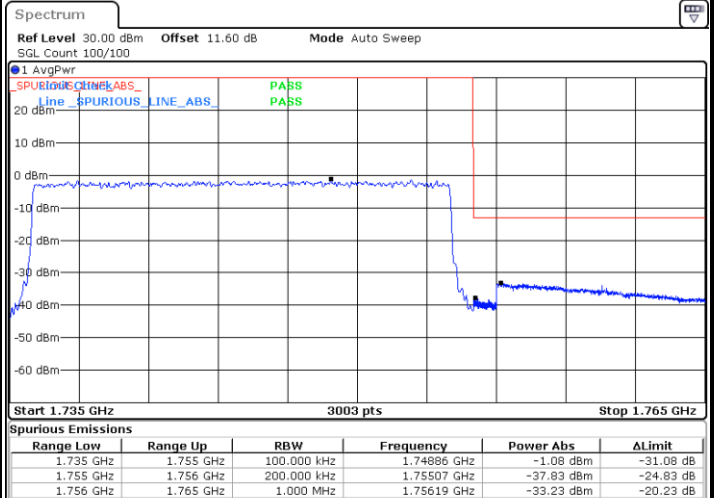
Date: 21.DEC.2021 09:32:22

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:31:17

Highest Band Edge / Full RB



Date: 21.DEC.2021 09:32:45

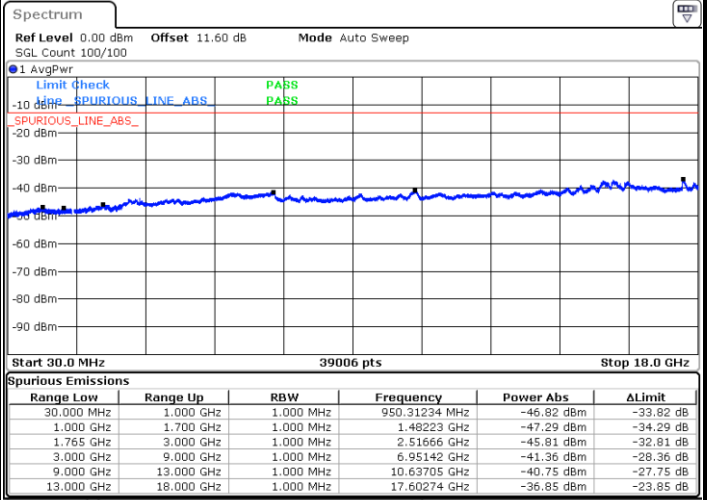
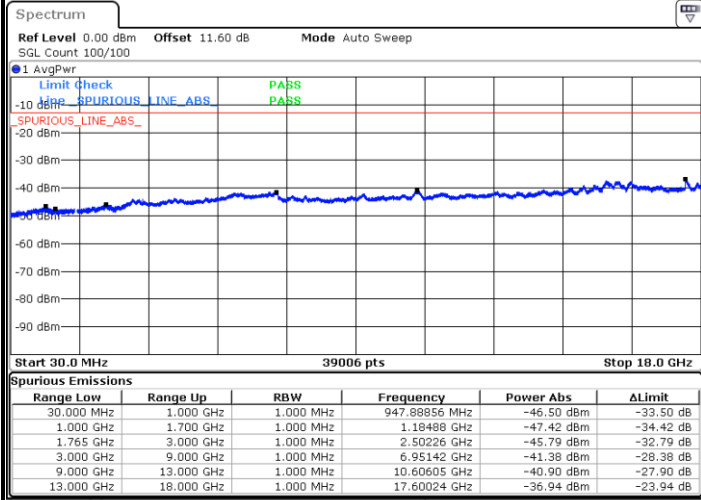


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

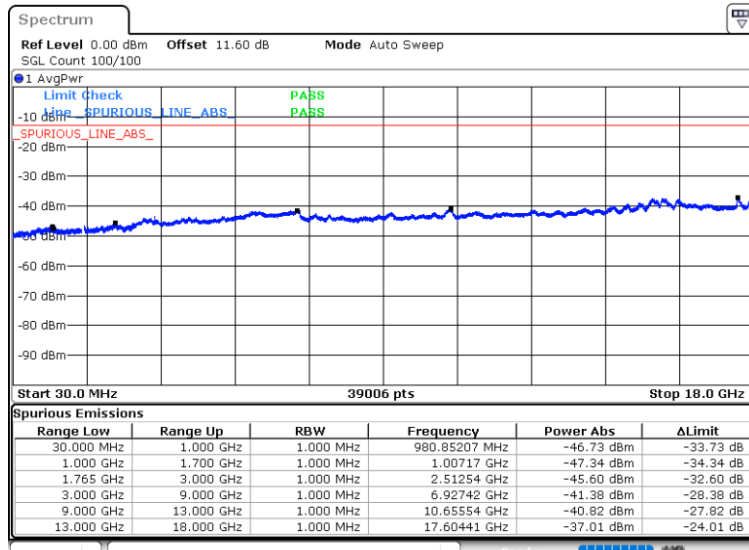
Middle Channel / QPSK



Date: 20.DEC.2021 17:28:30

Date: 20.DEC.2021 17:30:44

Highest Channel / QPSK



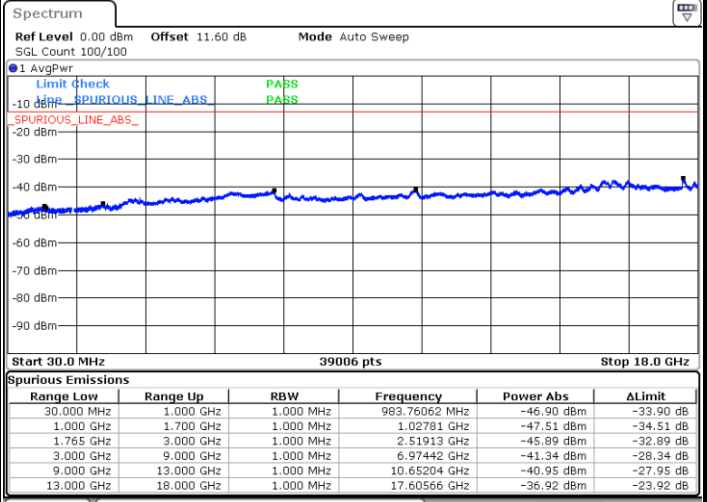
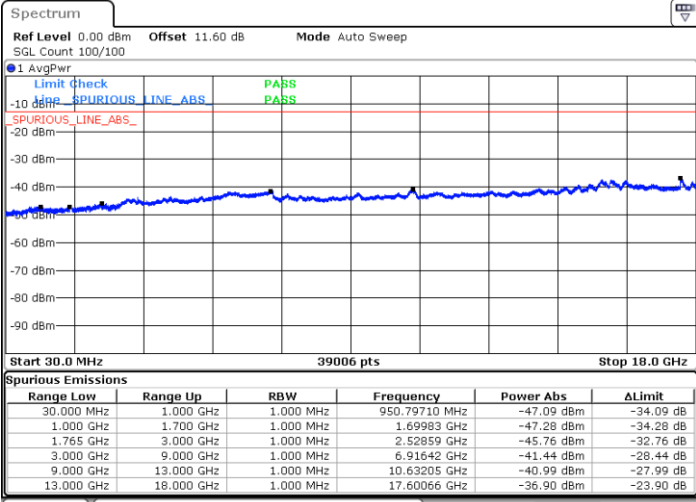
Date: 20.DEC.2021 17:33:07



LTE Band 4 / 3MHz

Lowest Channel / QPSK

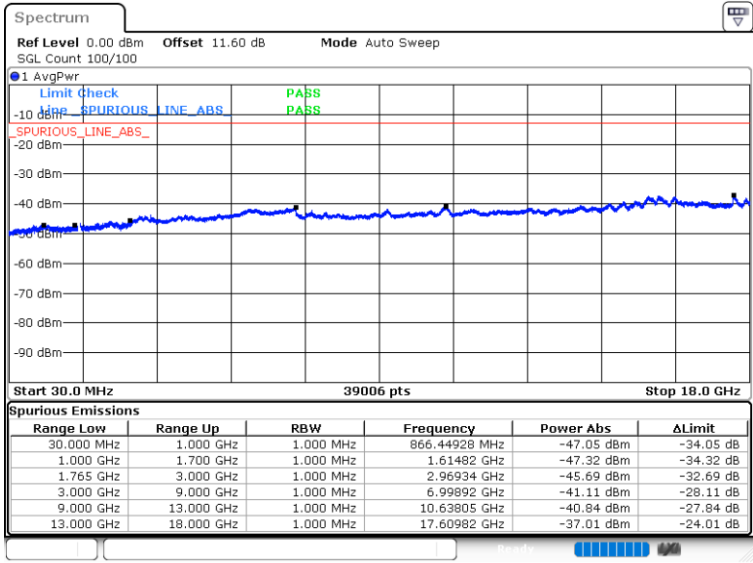
Middle Channel / QPSK



Date: 20.DEC.2021 17:37:46

Date: 20.DEC.2021 17:39:59

Highest Channel / QPSK



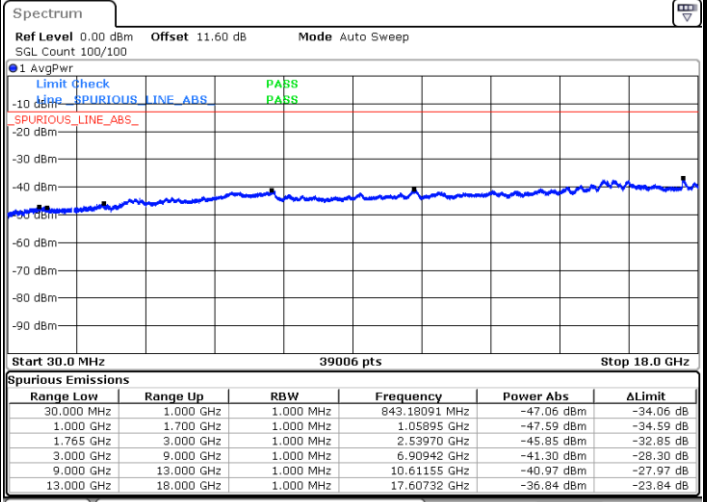
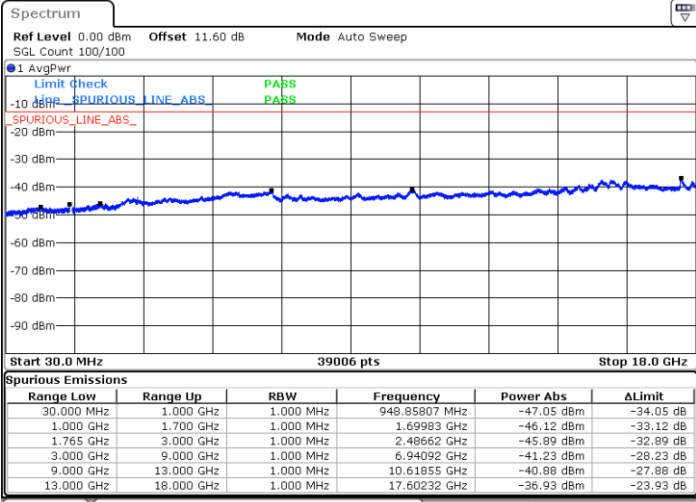
Date: 20.DEC.2021 17:42:22



LTE Band 4 / 5MHz

Lowest Channel / QPSK

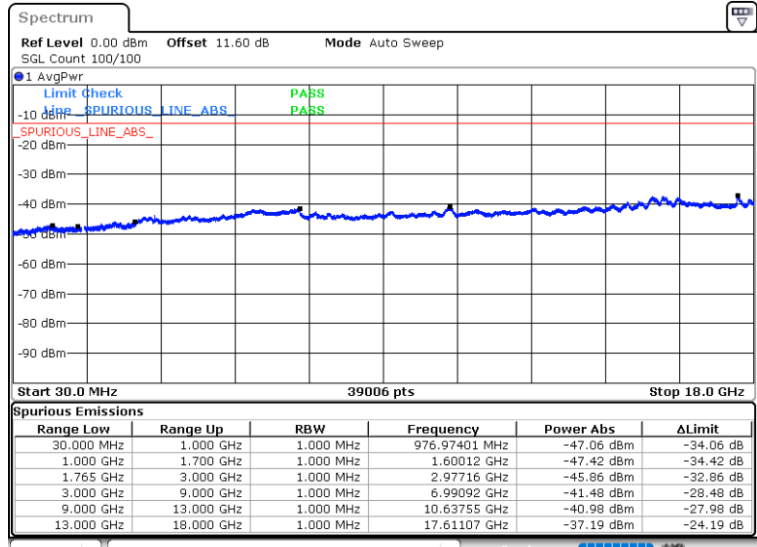
Middle Channel / QPSK



Date: 20.DEC.2021 17:50:44

Date: 21.DEC.2021 08:52:35

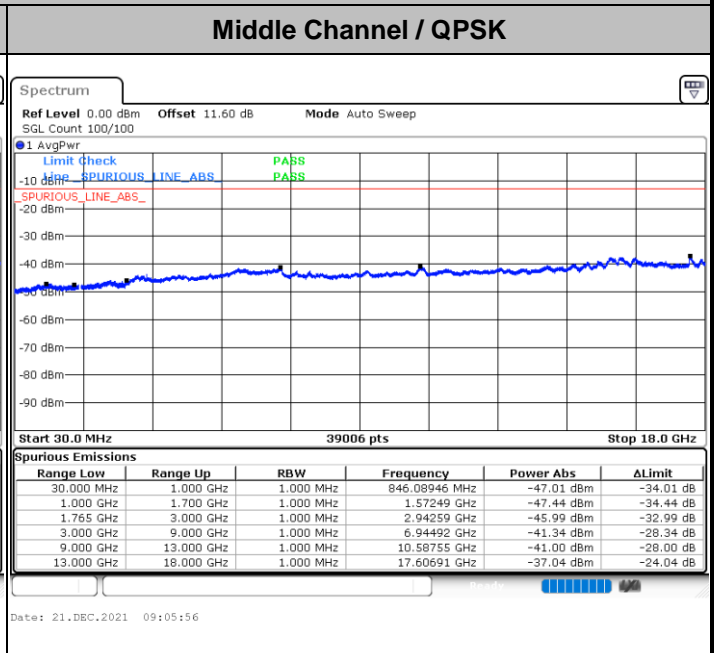
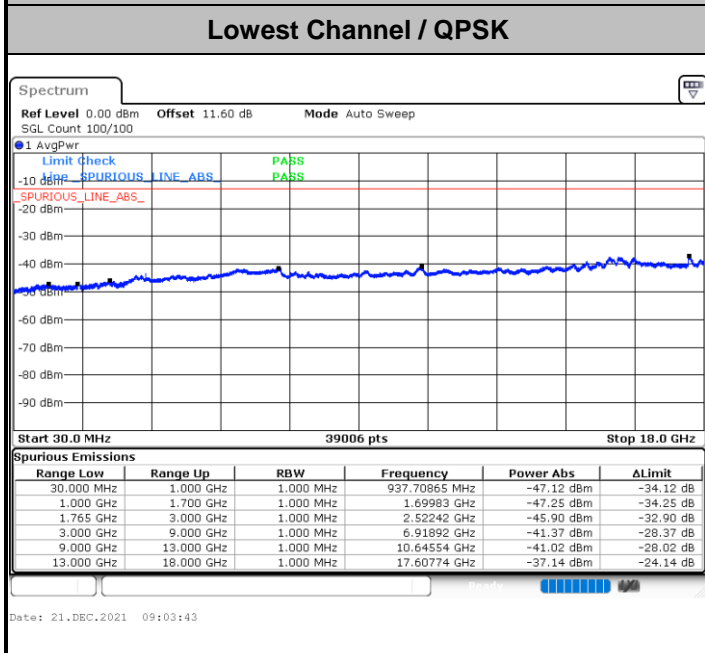
Highest Channel / QPSK



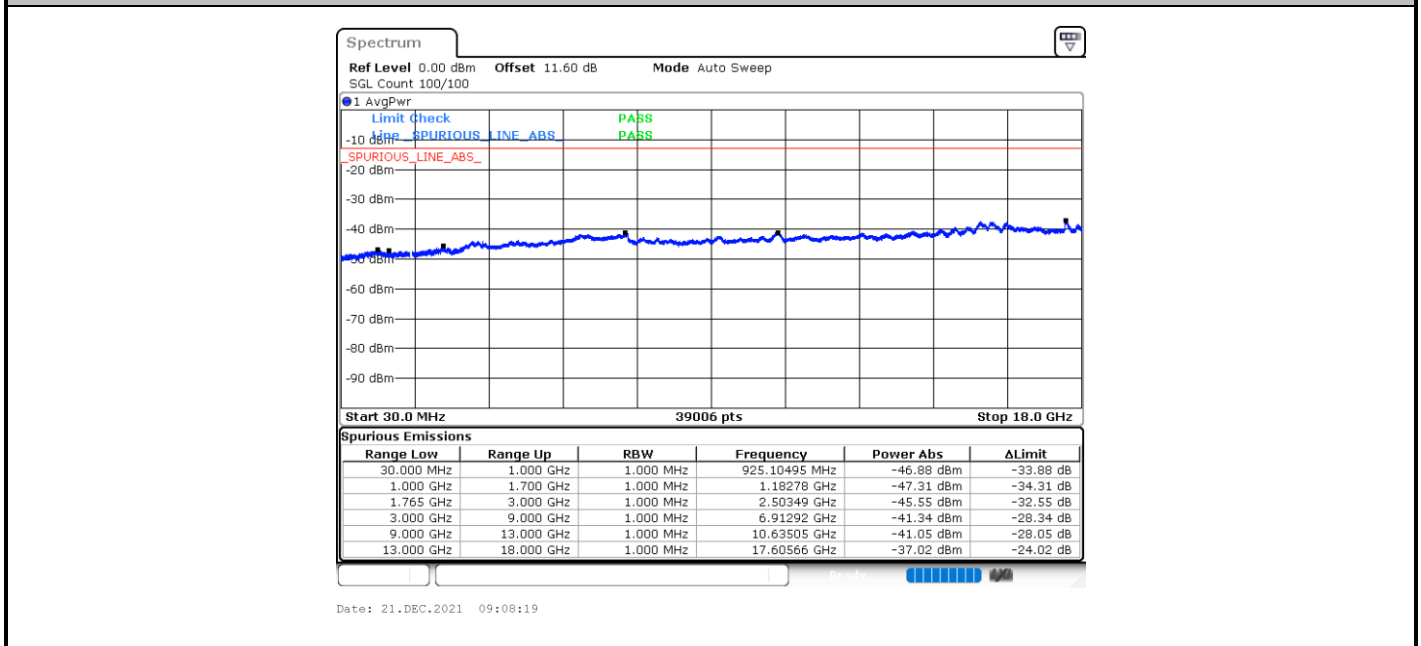
Date: 21.DEC.2021 08:58:00



LTE Band 4 / 10MHz



Highest Channel / QPSK

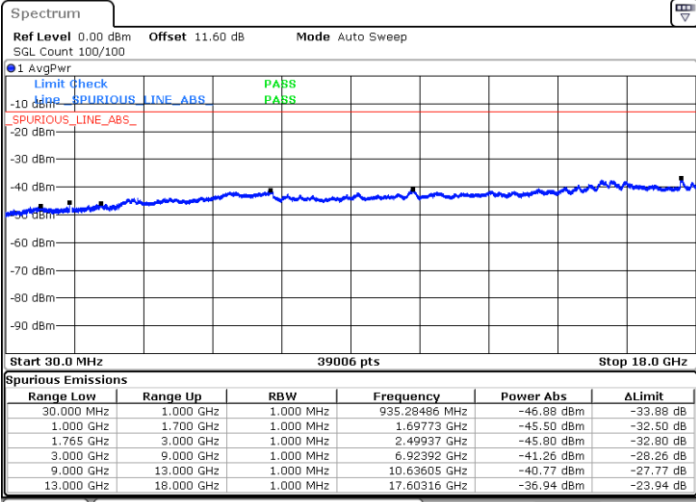




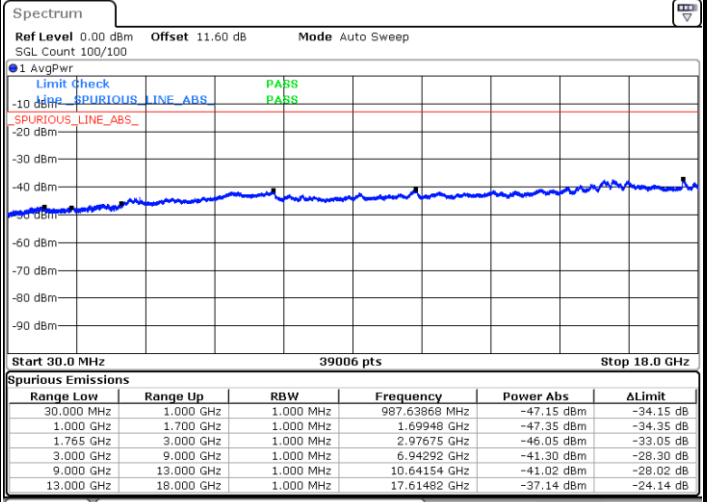
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

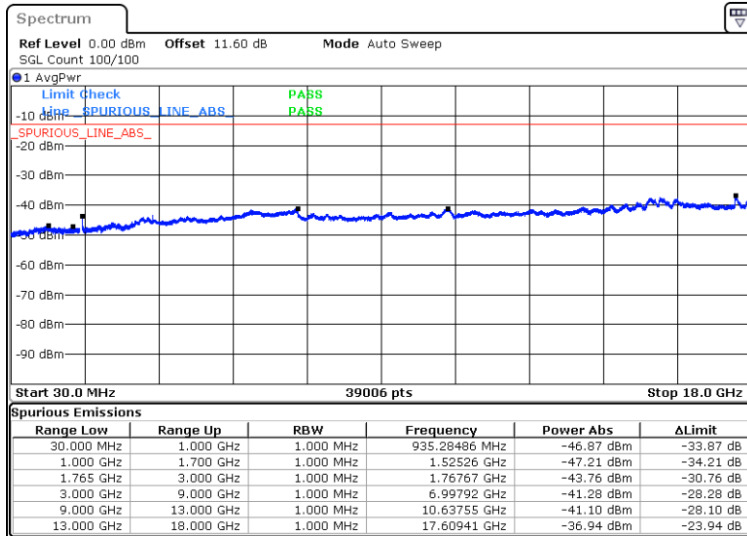


Date: 21.DEC.2021 09:15:31



Date: 21.DEC.2021 09:17:44

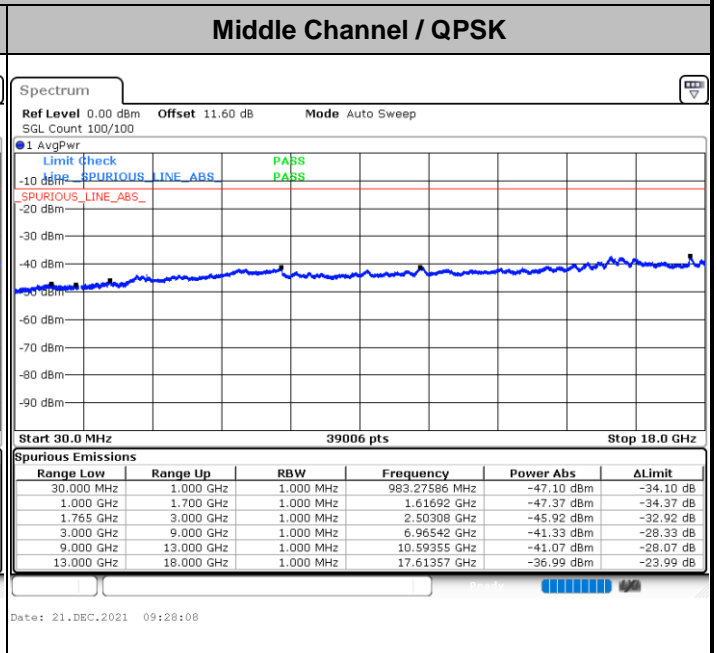
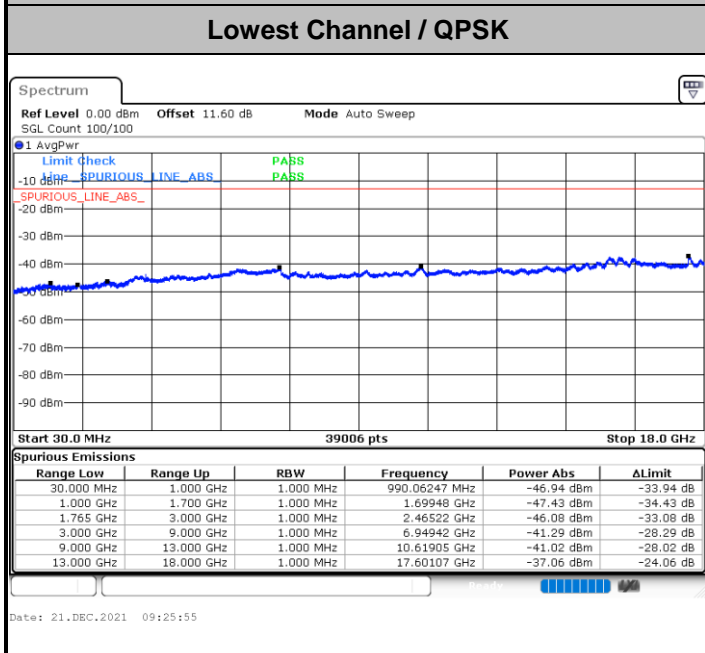
Highest Channel / QPSK



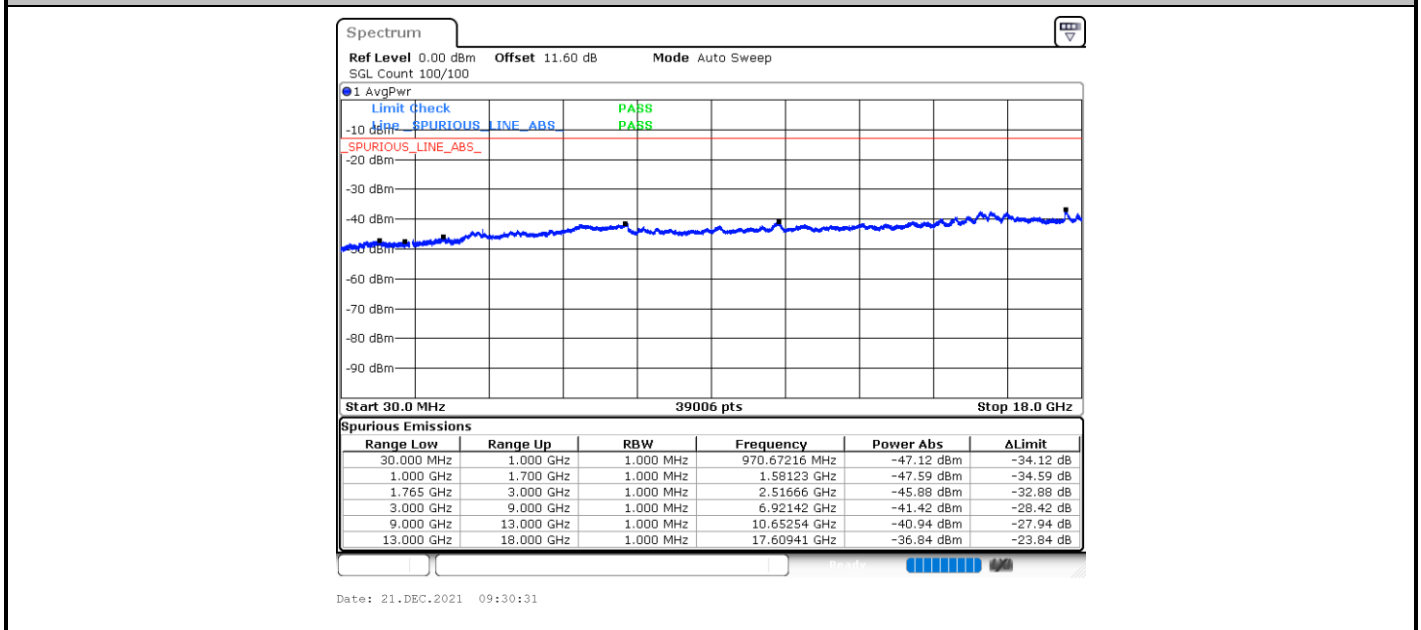
Date: 21.DEC.2021 09:20:06



LTE Band 4 / 20MHz



Highest Channel / QPSK





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	0.0024	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0084	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0023	

Note:

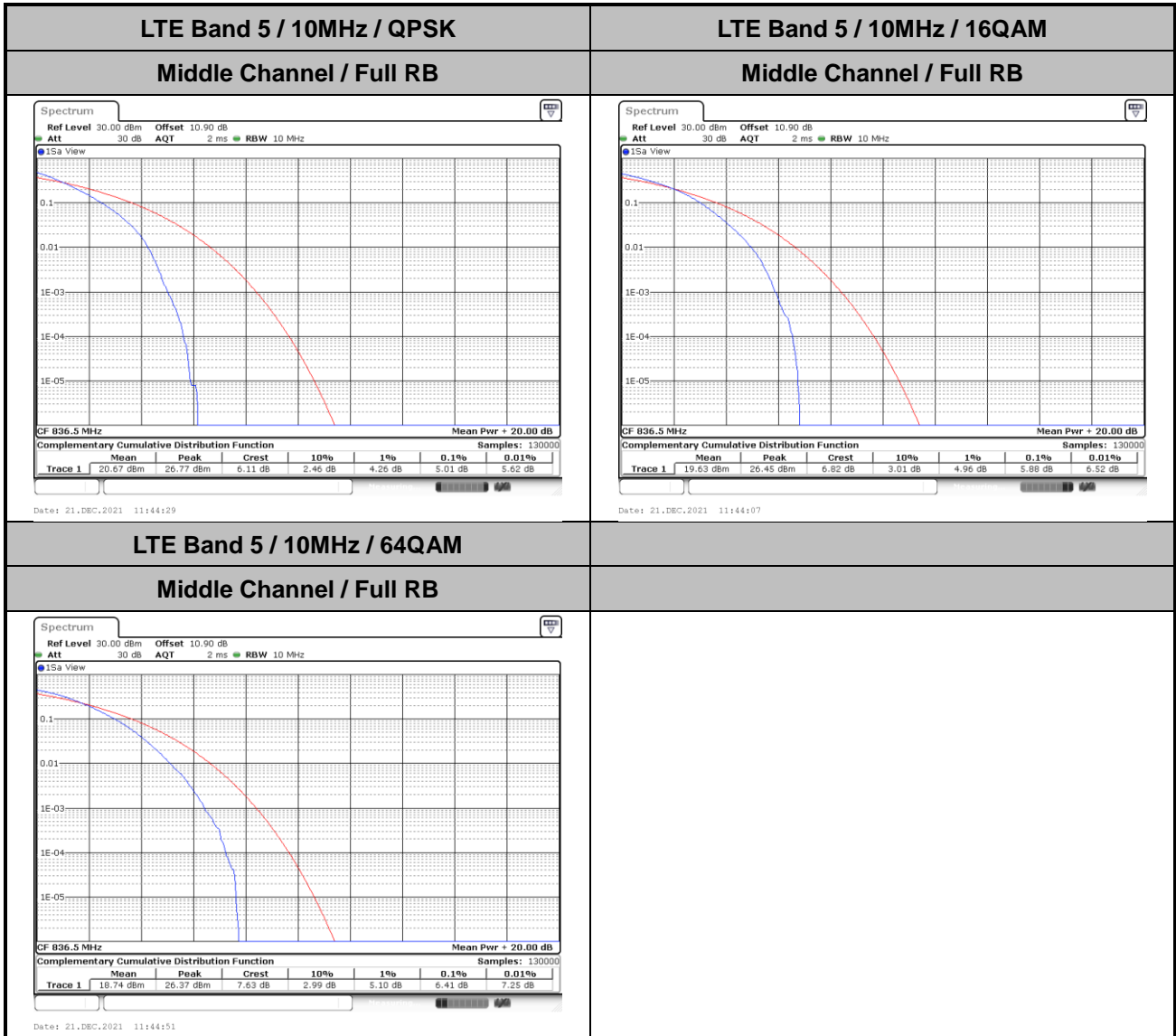
- 1. Normal Voltage =14 V. ; Battery End Point (BEP) =12 V. ; Maximum Voltage =16 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.01	5.88	6.41	PASS





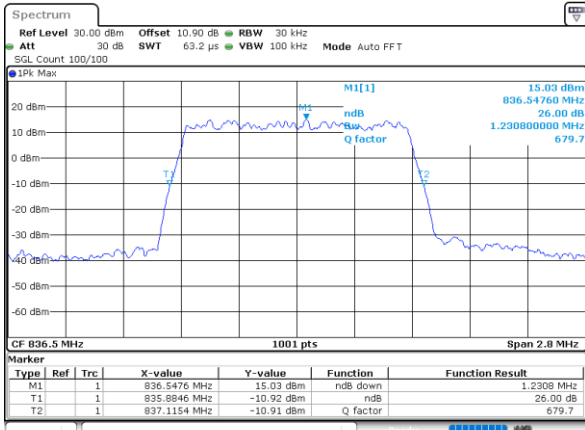
26dB Bandwidth

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	1.23	1.23	3.03	3.00	4.94	4.92	9.81	9.75	-	-	-	-
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	1.23	-	3.01	-	4.97	-	9.87	-	-	-	-	-



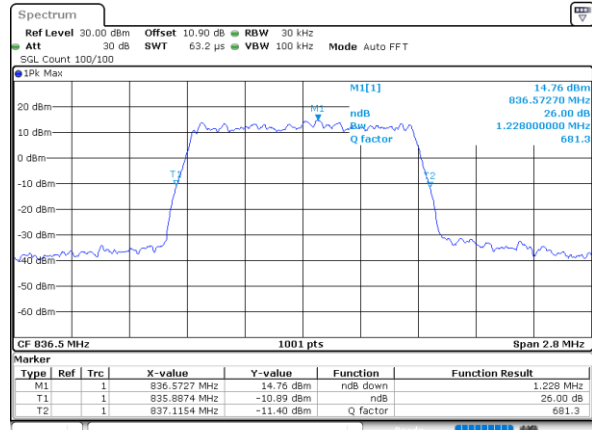
LTE Band 5

Middle Channel / 1.4MHz / QPSK



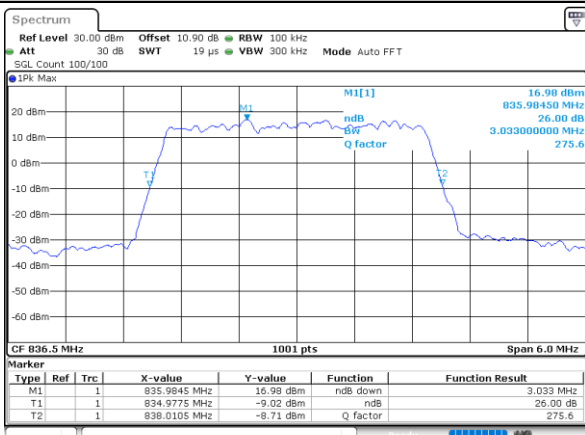
Date: 21.DEC.2021 10:01:30

Middle Channel / 1.4MHz / 16QAM



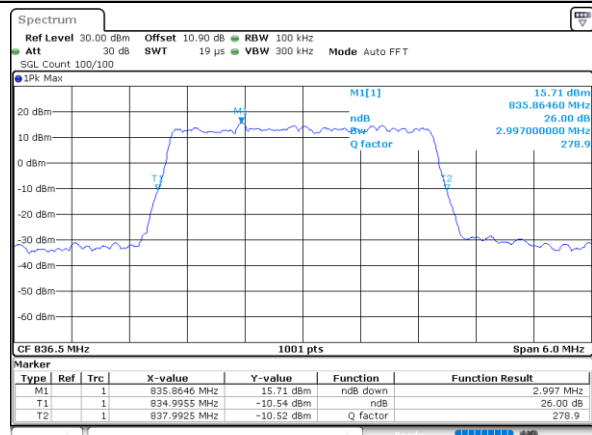
Date: 21.DEC.2021 10:01:51

Middle Channel / 3MHz / QPSK



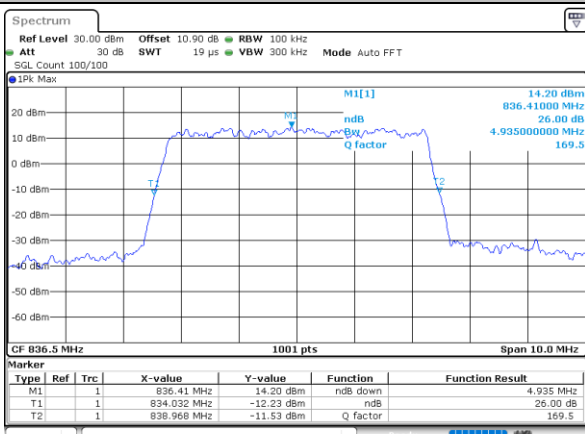
Date: 21.DEC.2021 10:33:49

Middle Channel / 3MHz / 16QAM



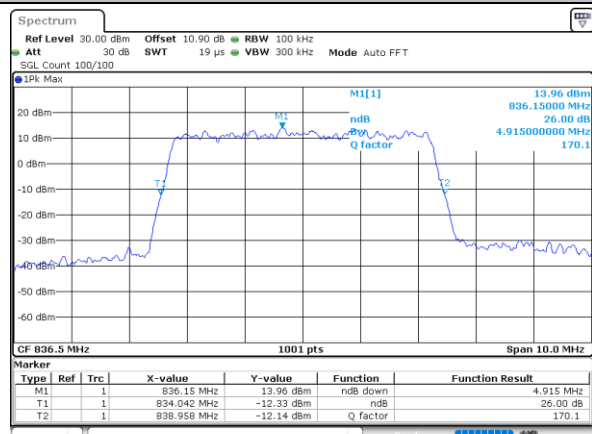
Date: 21.DEC.2021 10:34:10

Middle Channel / 5MHz / QPSK



Date: 21.DEC.2021 10:59:46

Middle Channel / 5MHz / 16QAM

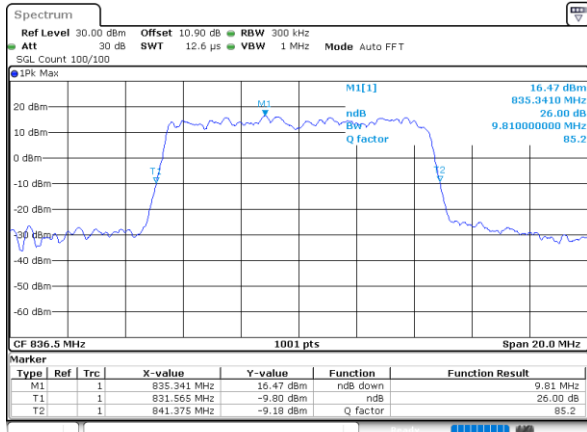


Date: 21.DEC.2021 11:00:07



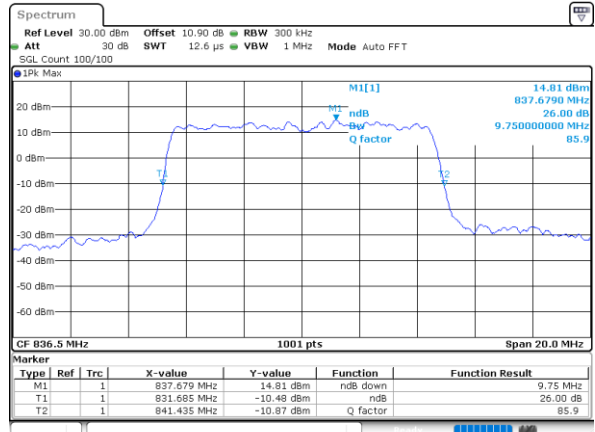
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 21.DEC.2021 11:26:49

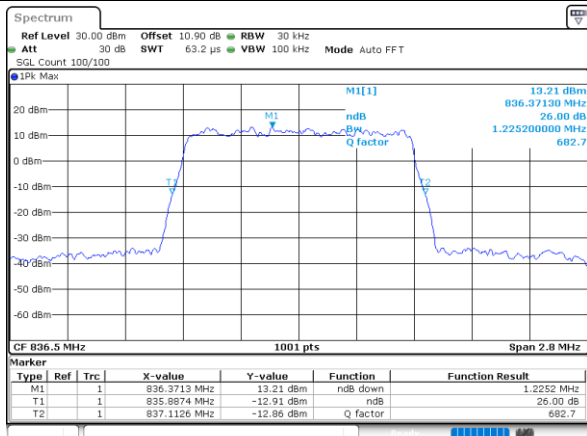
Middle Channel / 10MHz / 16QAM



Date: 21.DEC.2021 11:27:10

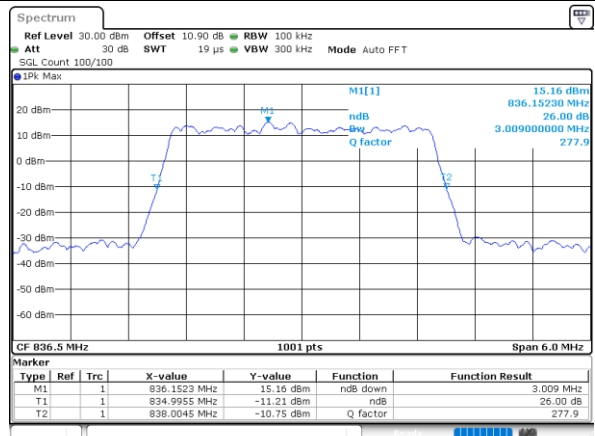
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



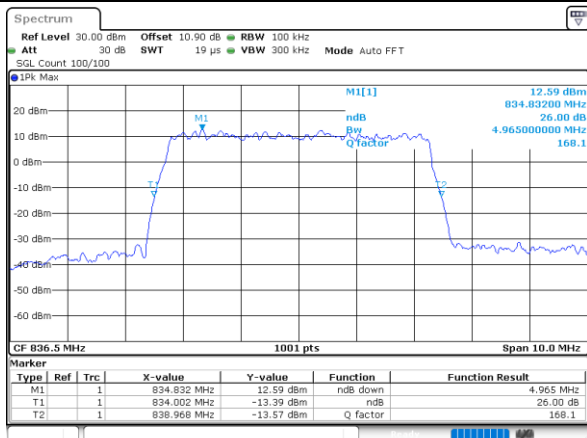
Date: 21.DEC.2021 10:14:45

Middle Channel / 3MHz / 64QAM



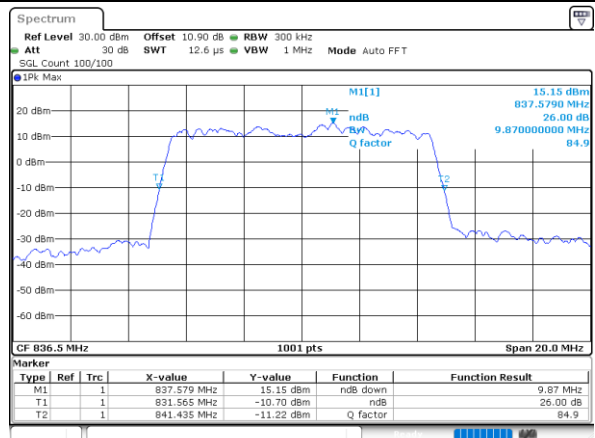
Date: 21.DEC.2021 10:14:05

Middle Channel / 5MHz / 64QAM



Date: 21.DEC.2021 11:13:01

Middle Channel / 10MHz / 64QAM



Date: 21.DEC.2021 11:14:04



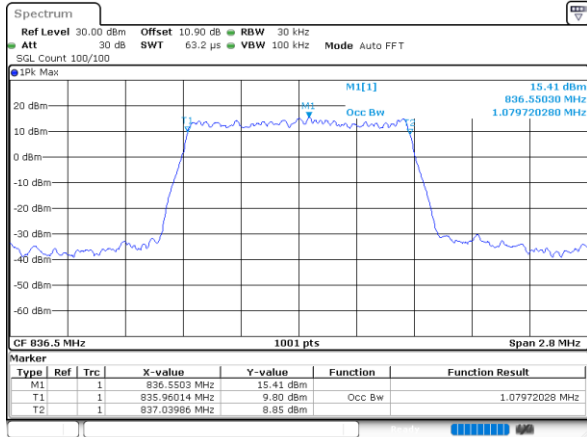
Occupied Bandwidth

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	1.08	1.09	2.72	2.70	4.50	4.51	9.01	9.05	-	-	-	-
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	-	2.72	-	4.48	-	9.07	-	-	-	-	-

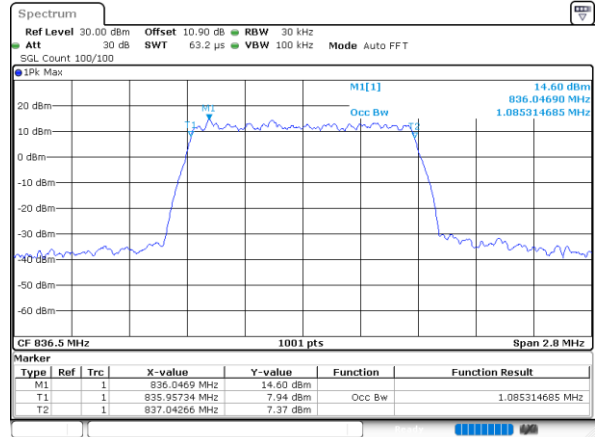


LTE Band 5

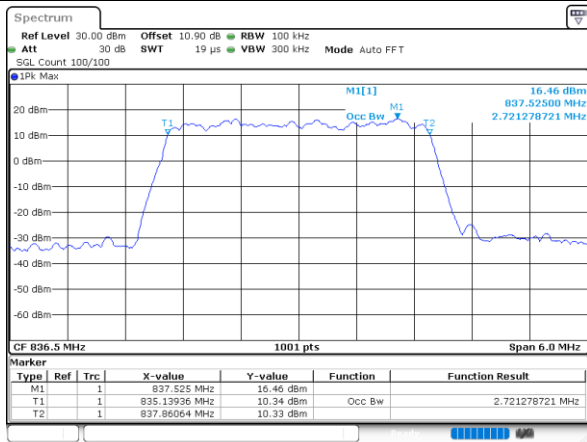
Middle Channel / 1.4MHz / QPSK



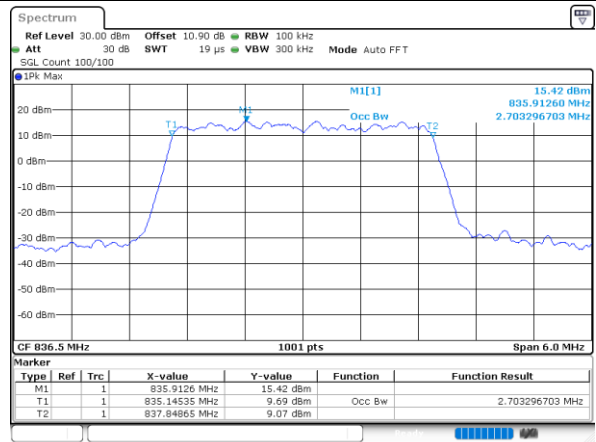
Middle Channel / 1.4MHz / 16QAM



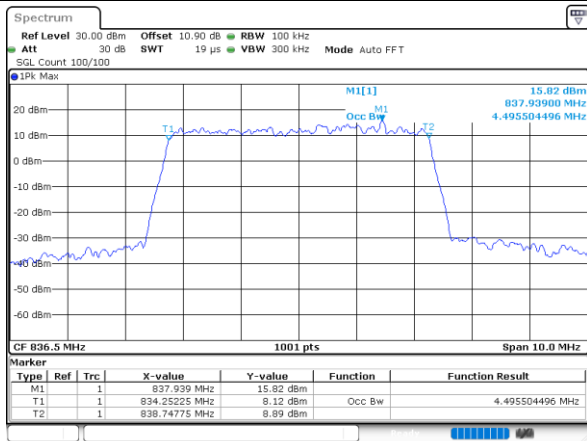
Middle Channel / 3MHz / QPSK



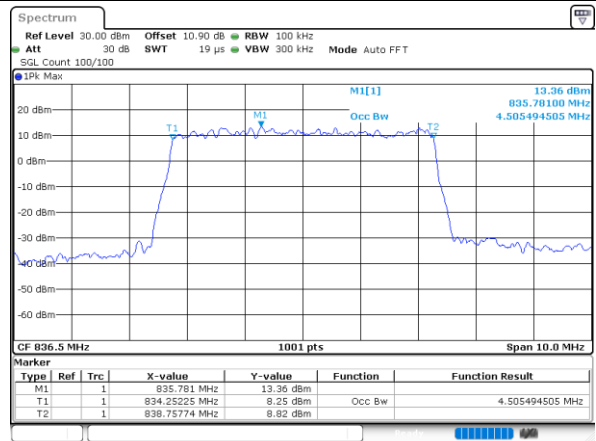
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



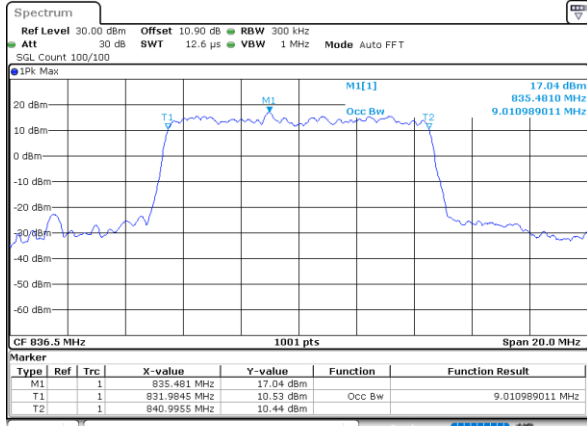
Middle Channel / 5MHz / 16QAM





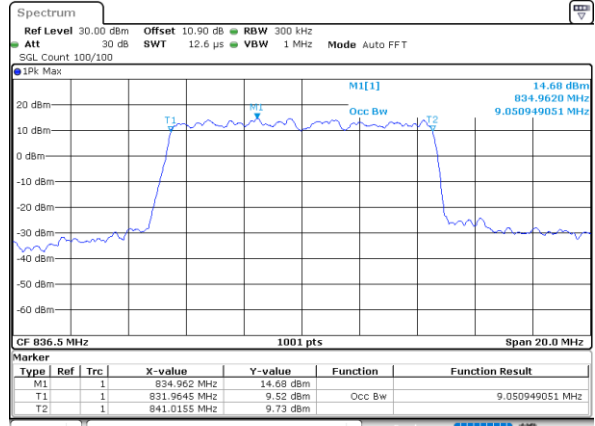
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 21.DEC.2021 11:26:07

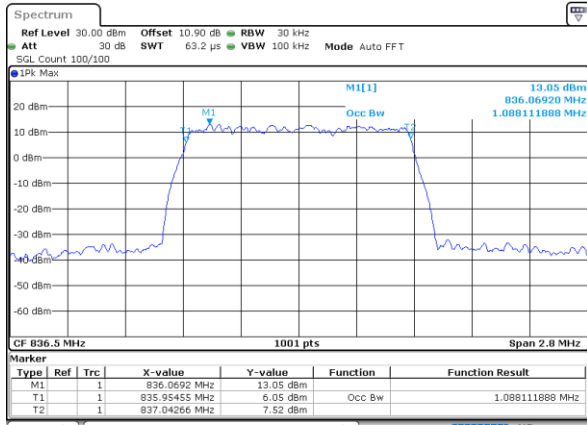
Middle Channel / 10MHz / 16QAM



Date: 21.DEC.2021 11:26:128

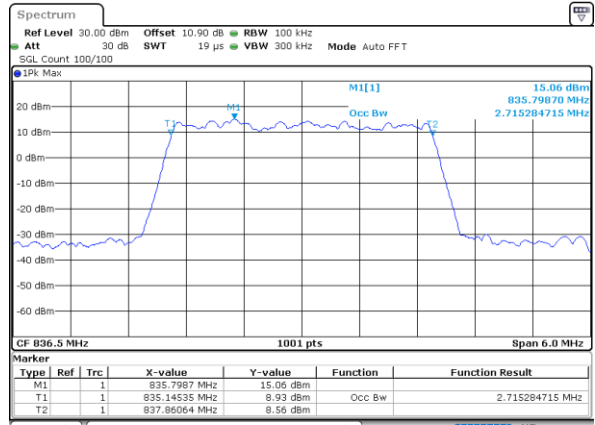
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



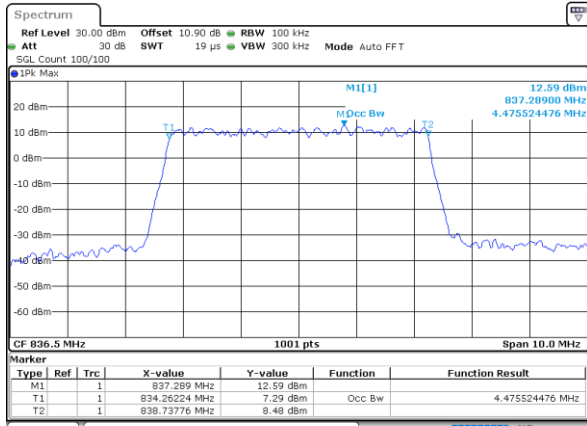
Date: 21.DEC.2021 10:14:25

Middle Channel / 3MHz / 64QAM



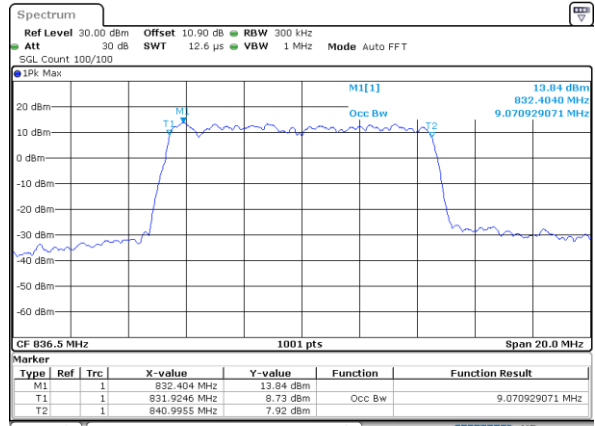
Date: 21.DEC.2021 10:14:44

Middle Channel / 5MHz / 64QAM



Date: 21.DEC.2021 11:12:40

Middle Channel / 10MHz / 64QAM



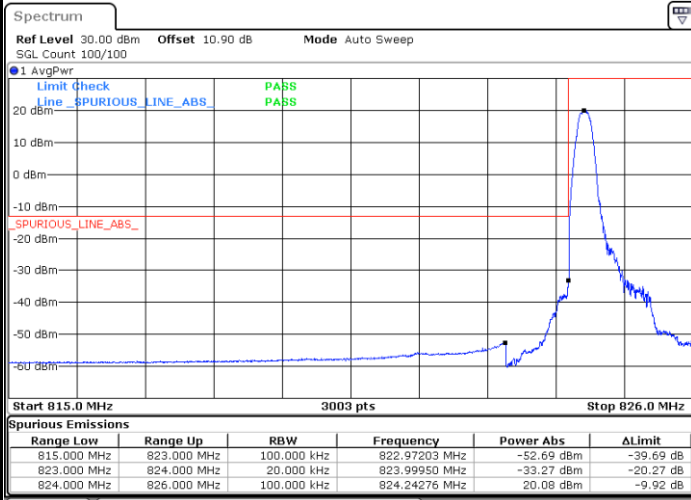
Date: 21.DEC.2021 11:13:44



Conducted Band Edge

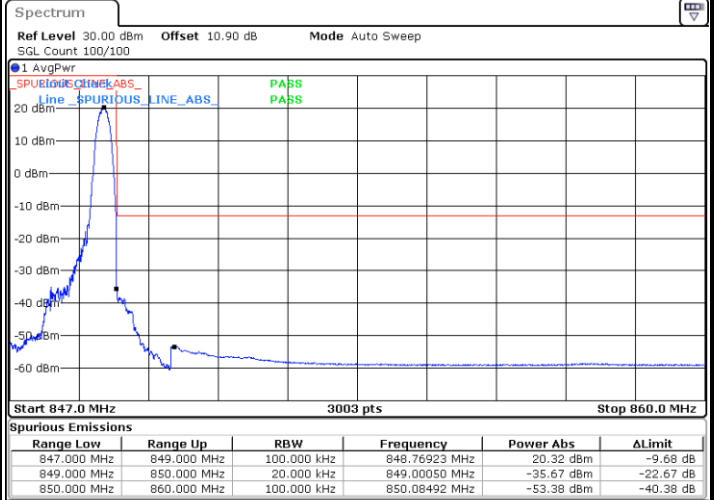
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



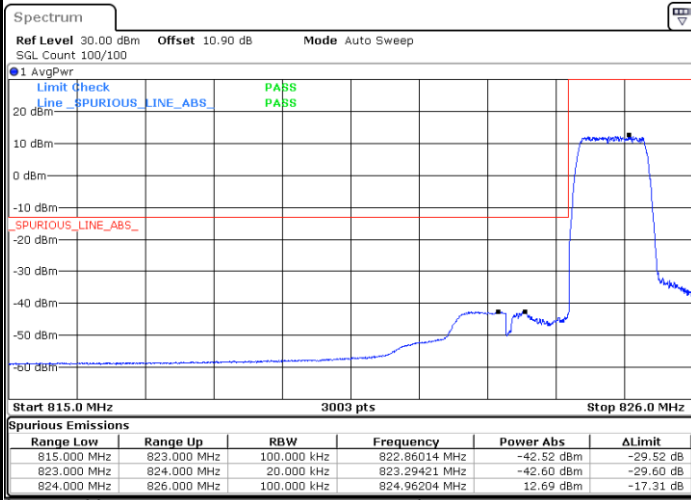
Date: 21.DEC.2021 09:54:20

Highest Band Edge / 1RB



Date: 21.DEC.2021 10:07:57

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:58:01

Highest Band Edge / Full RB



Date: 21.DEC.2021 10:04:16



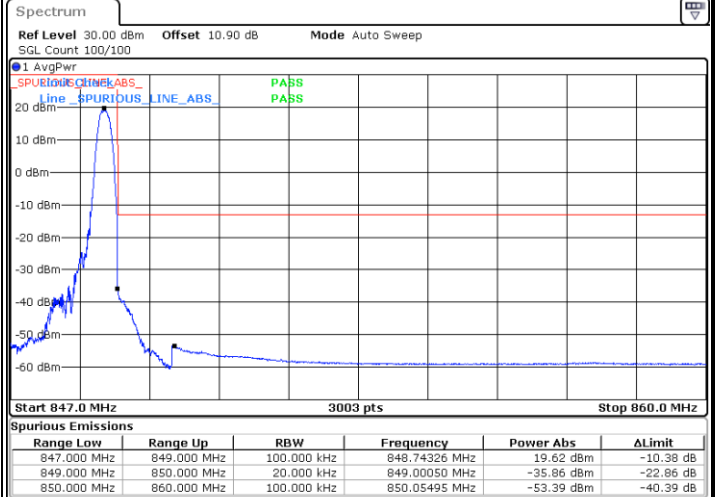
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



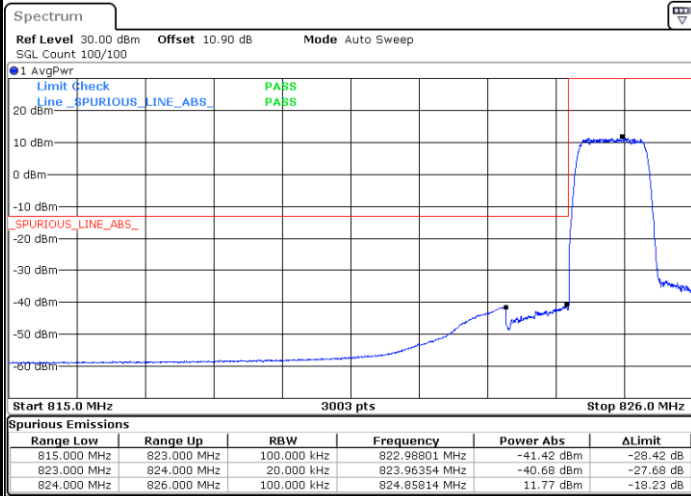
Date: 21.DEC.2021 09:56:10

Highest Band Edge / 1 RB



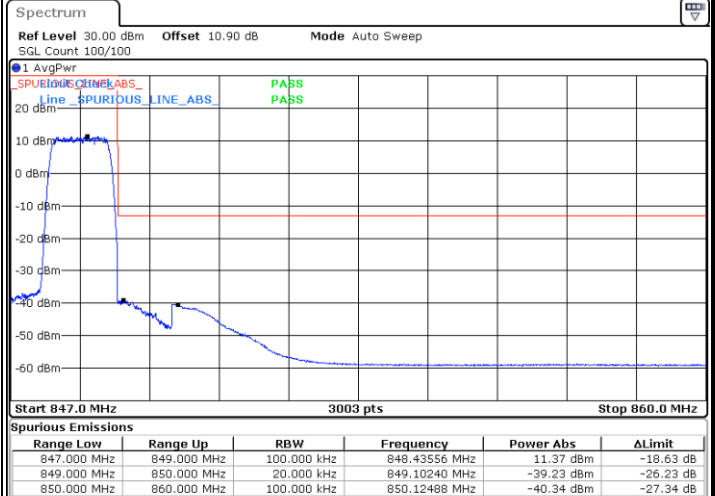
Date: 21.DEC.2021 10:09:47

Lowest Band Edge / Full RB



Date: 21.DEC.2021 09:59:51

Highest Band Edge / Full RB



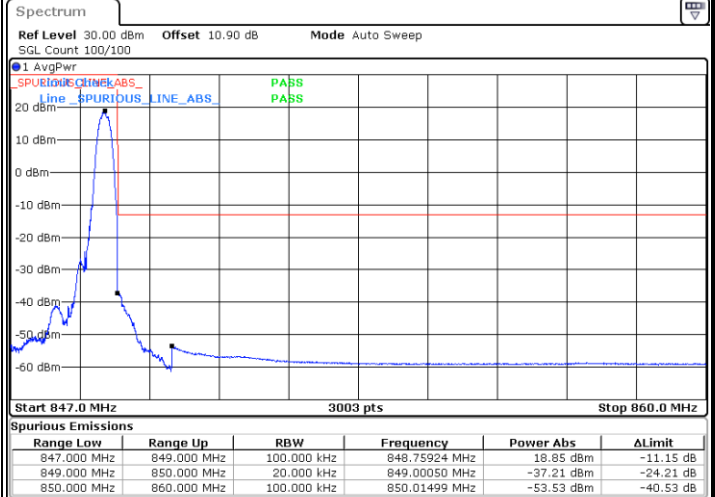
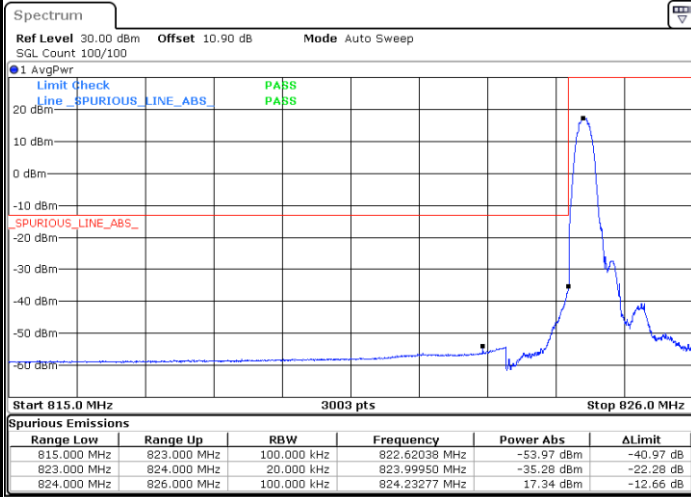
Date: 21.DEC.2021 10:06:06



LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

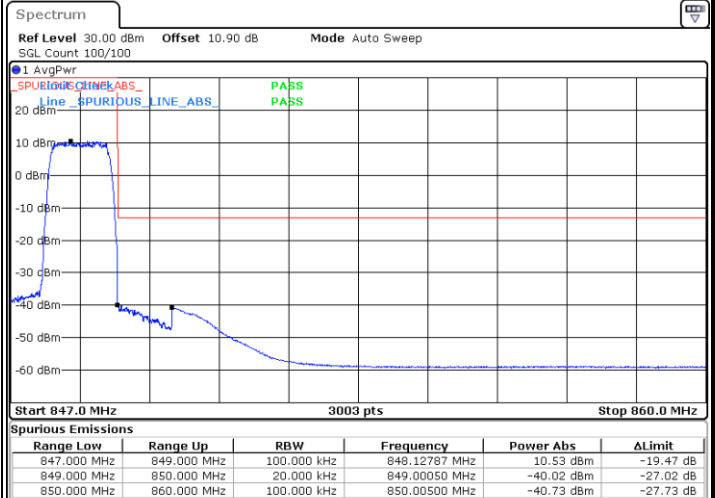
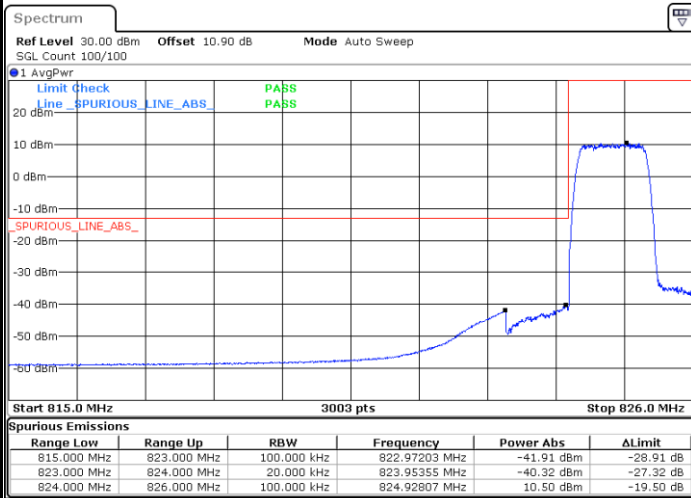


Date: 21.DEC.2021 10:12:13

Date: 21.DEC.2021 10:21:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



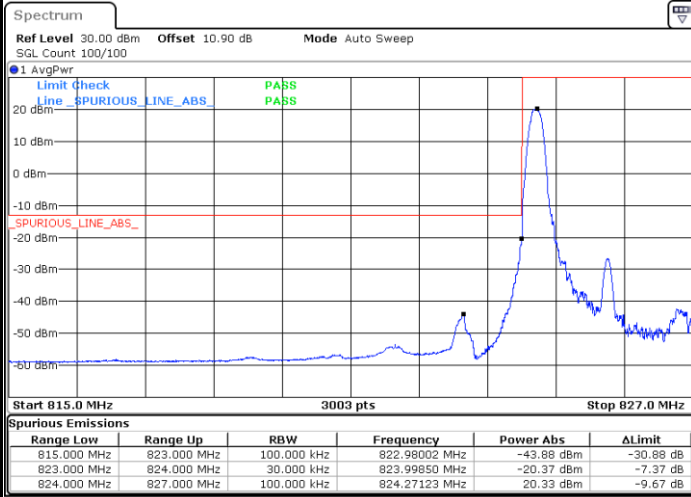
Date: 21.DEC.2021 10:14:04

Date: 21.DEC.2021 10:16:35



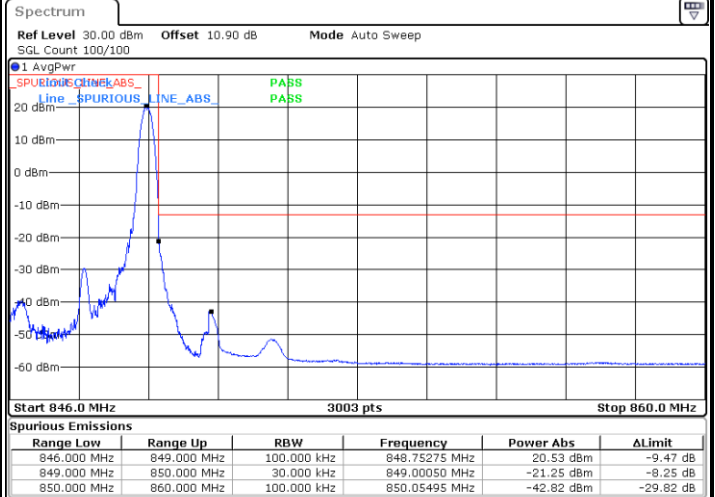
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



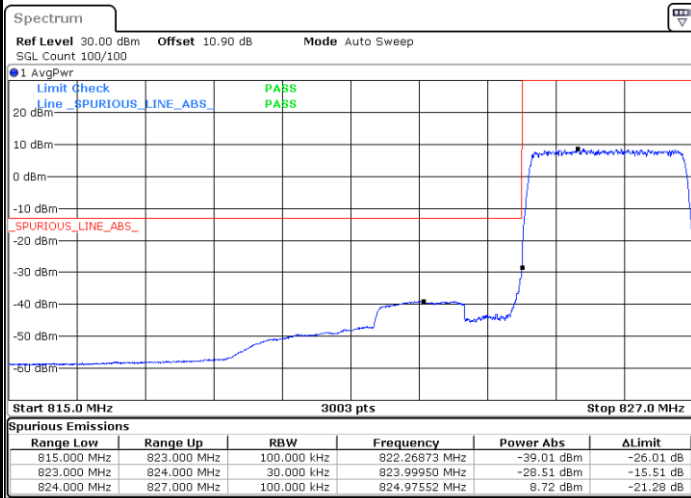
Date: 21.DEC.2021 10:22:52

Highest Band Edge / 1 RB



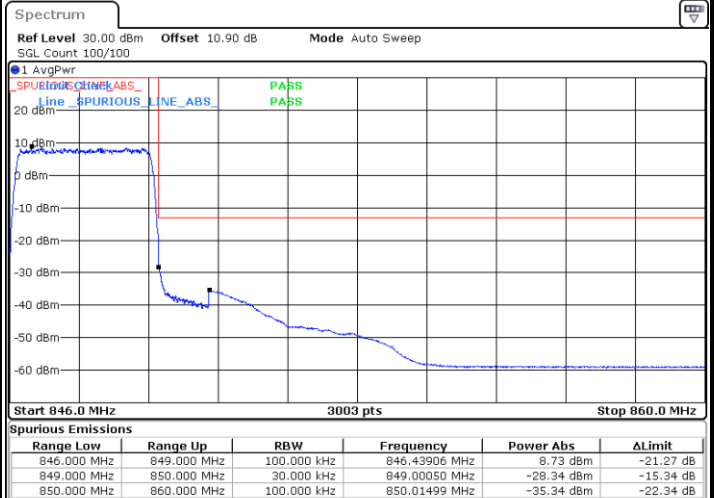
Date: 21.DEC.2021 10:36:35

Lowest Band Edge / Full RB



Date: 21.DEC.2021 10:26:33

Highest Band Edge / Full RB

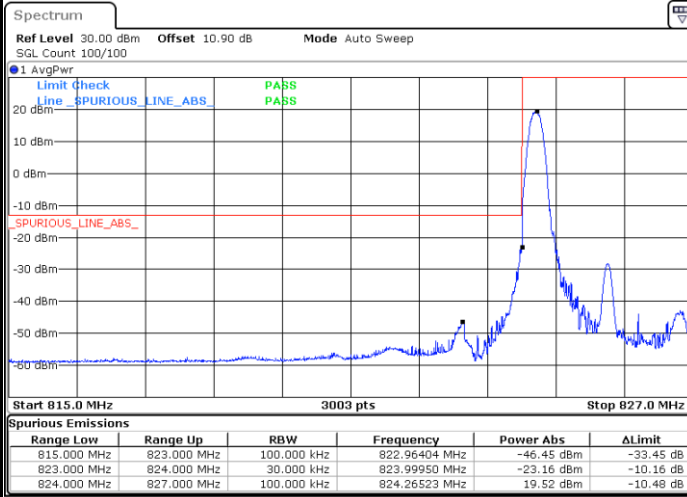


Date: 21.DEC.2021 10:40:16



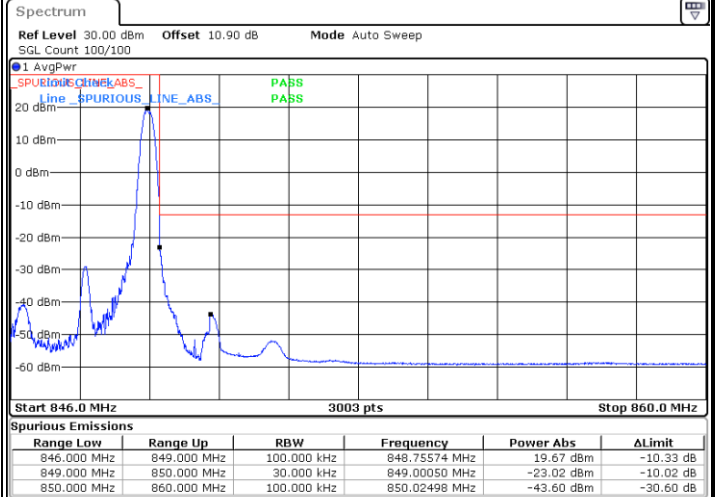
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



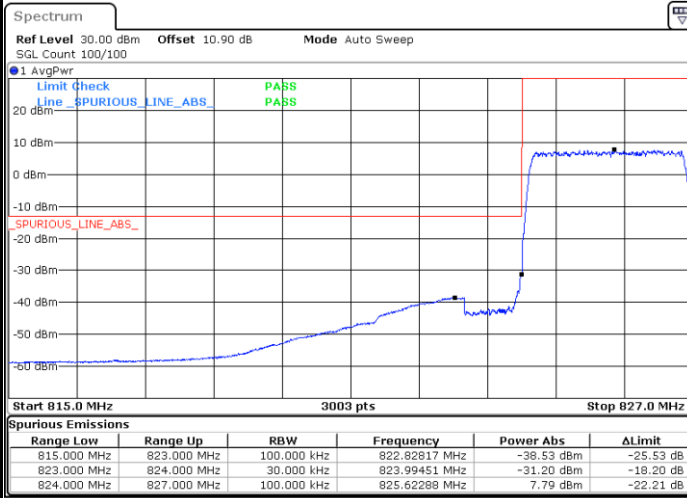
Date: 21.DEC.2021 10:24:42

Highest Band Edge / 1 RB



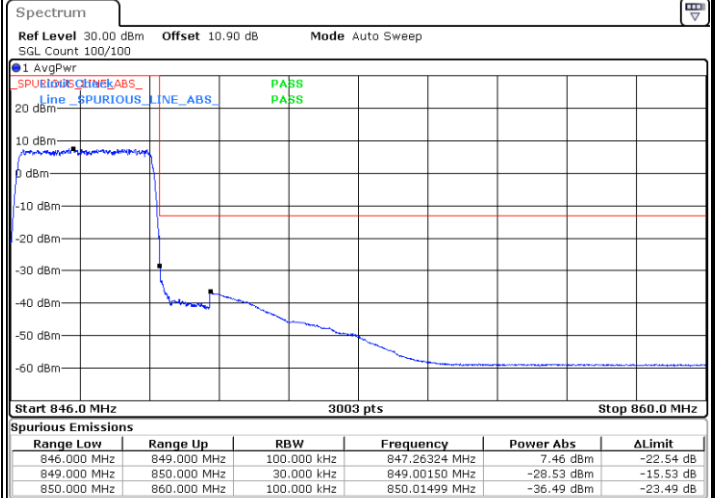
Date: 21.DEC.2021 10:38:25

Lowest Band Edge / Full RB



Date: 21.DEC.2021 10:28:23

Highest Band Edge / Full RB



Date: 21.DEC.2021 10:42:06