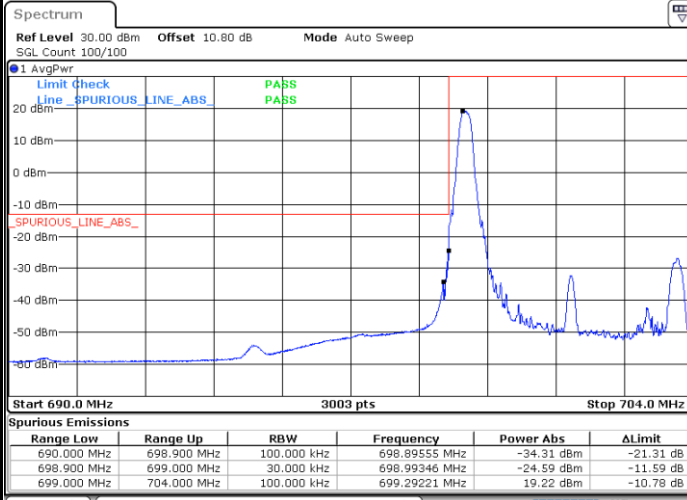




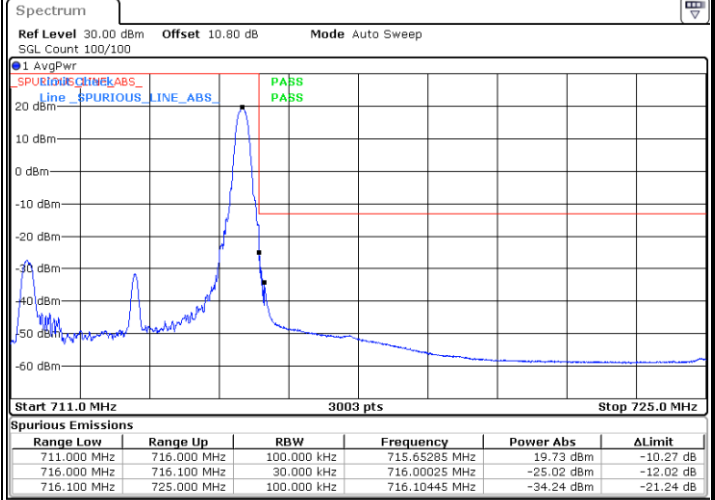
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



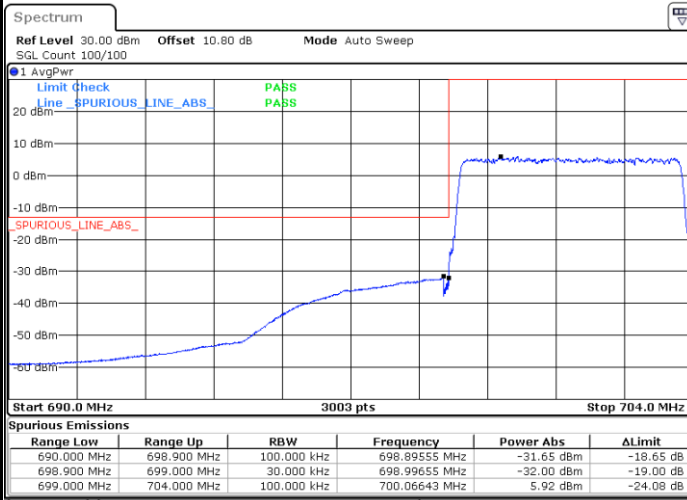
Date: 30.OCT.2021 07:11:49

Highest Band Edge / 1 RB



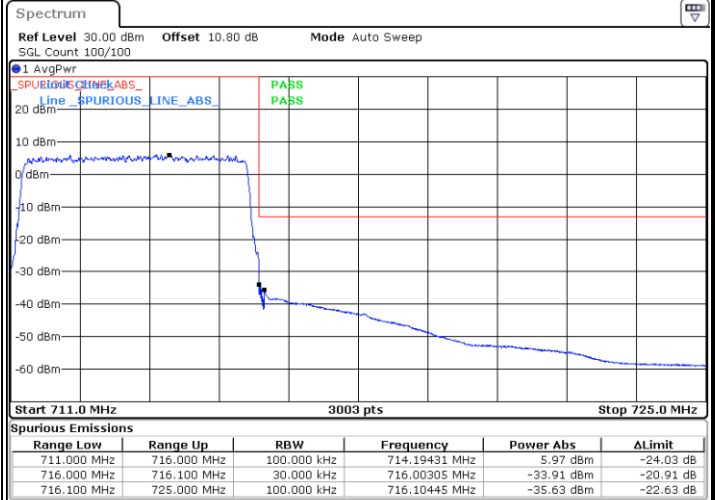
Date: 30.OCT.2021 07:18:23

Lowest Band Edge / Full RB



Date: 30.OCT.2021 07:11:08

Highest Band Edge / Full RB

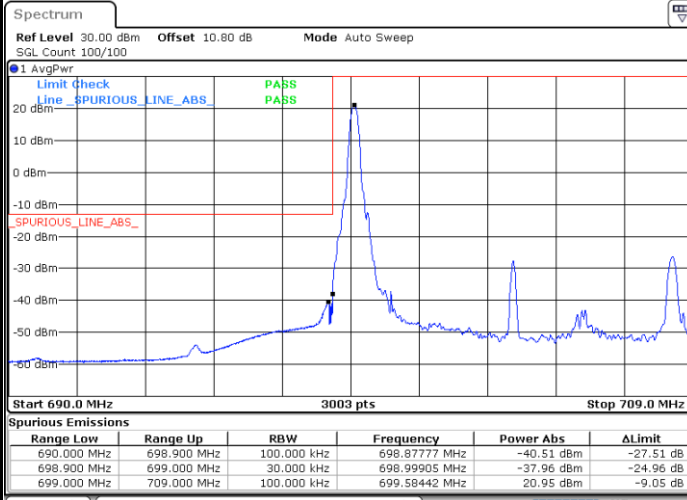


Date: 30.OCT.2021 07:17:00



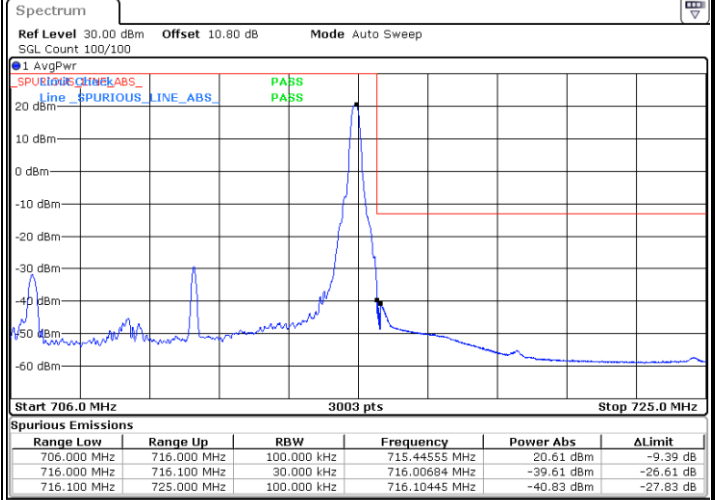
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



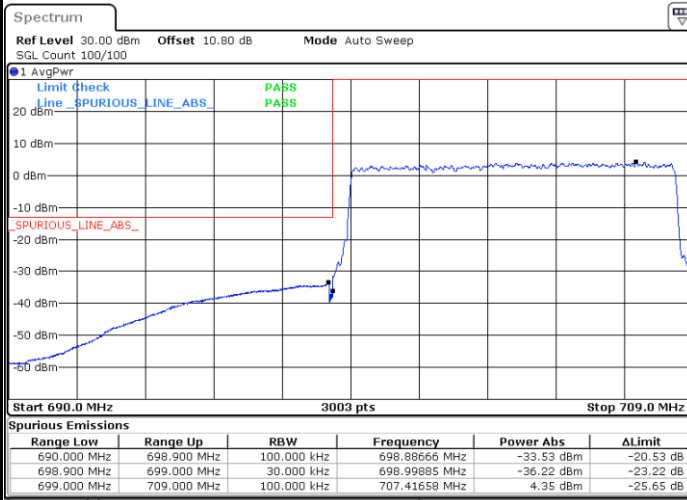
Date: 30.OCT.2021 07:21:20

Highest Band Edge / 1 RB



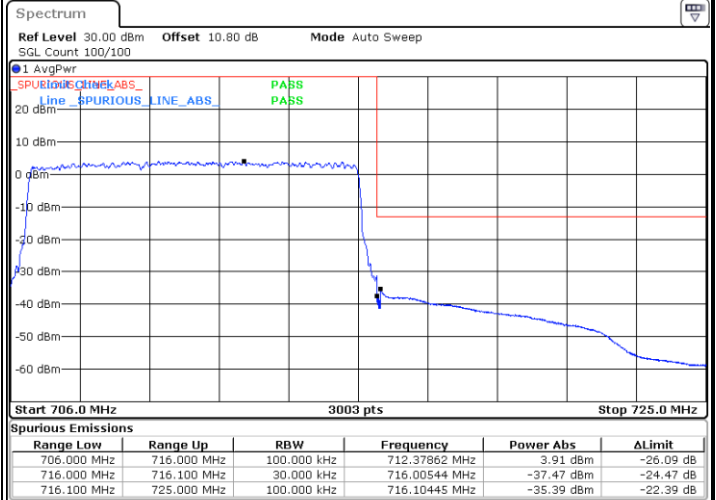
Date: 30.OCT.2021 07:25:49

Lowest Band Edge / Full RB



Date: 30.OCT.2021 07:19:57

Highest Band Edge / Full RB



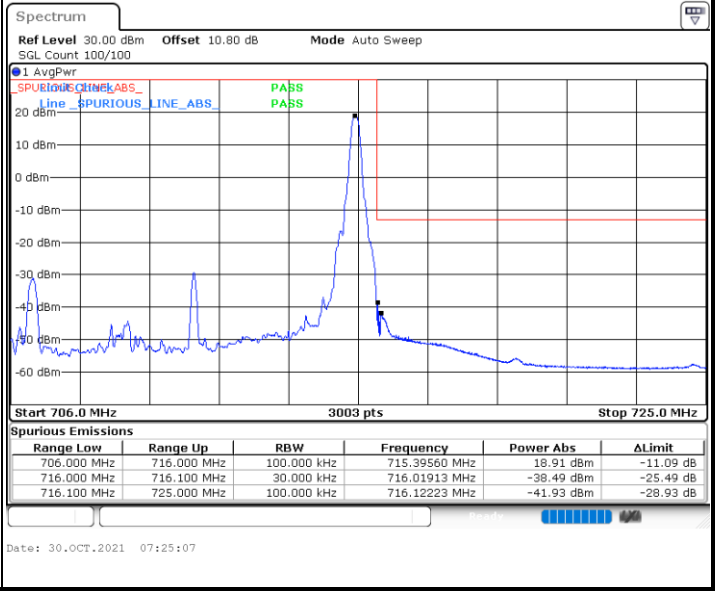
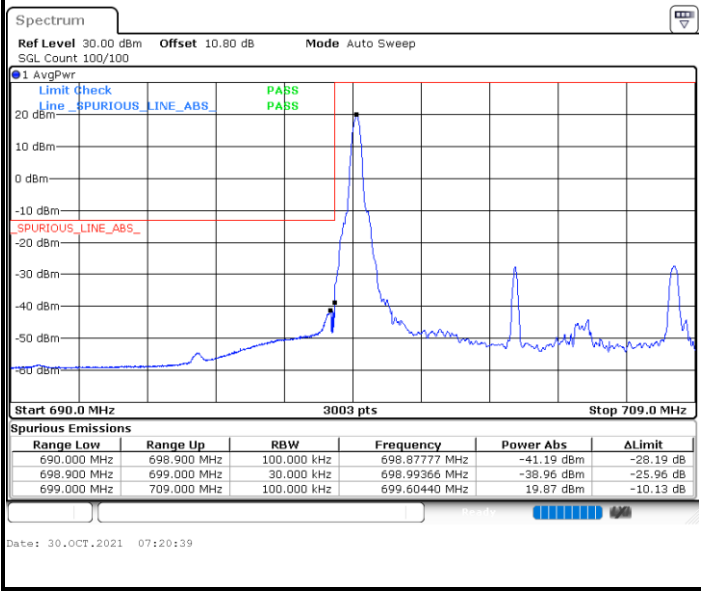
Date: 30.OCT.2021 07:24:25



LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



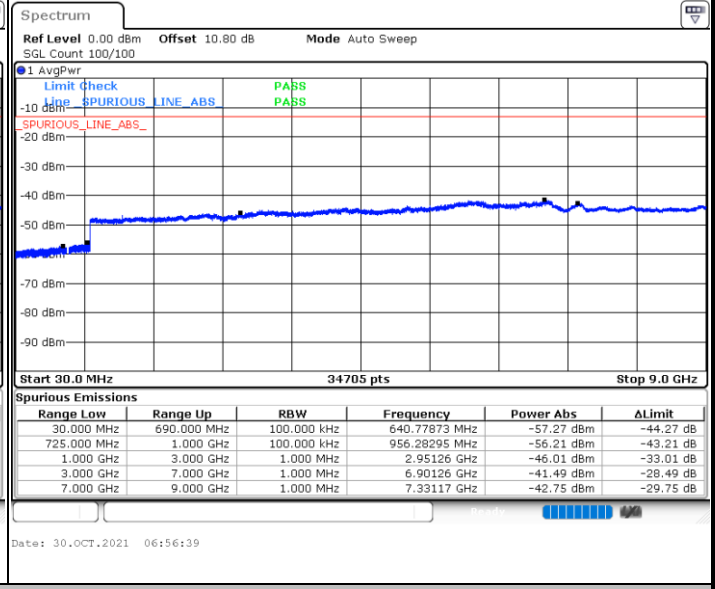
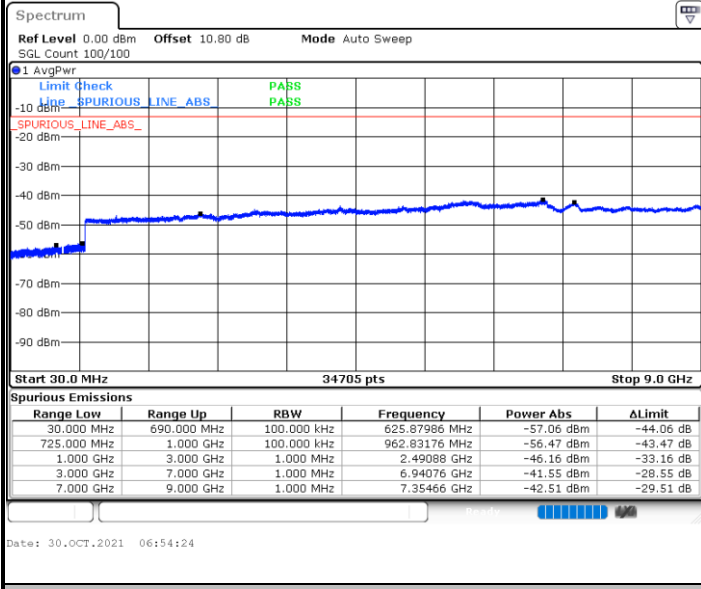


Conducted Spurious Emission

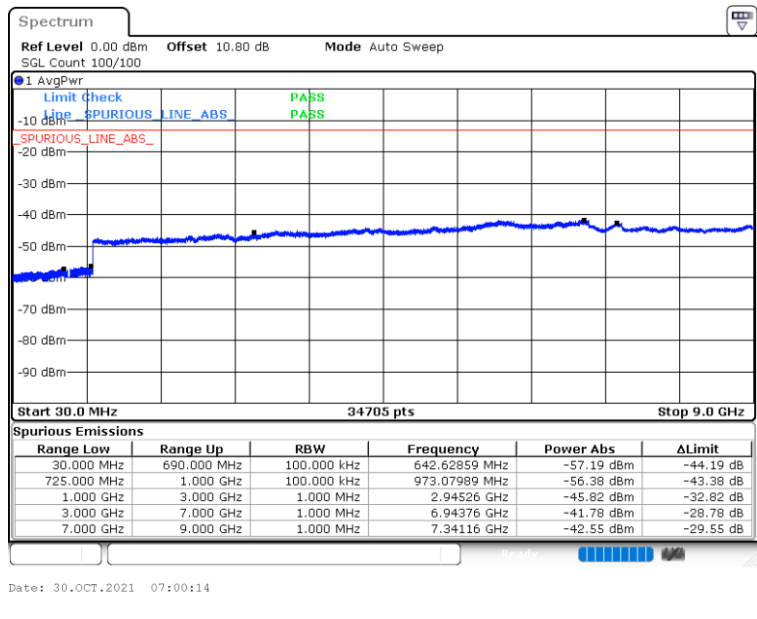
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

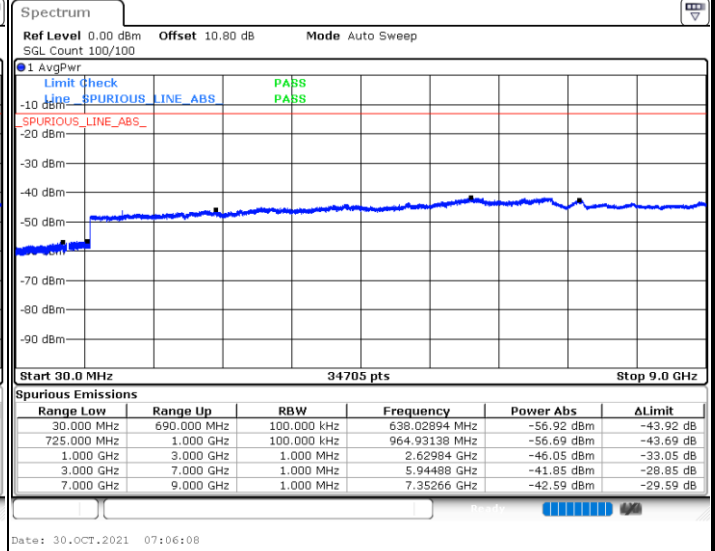
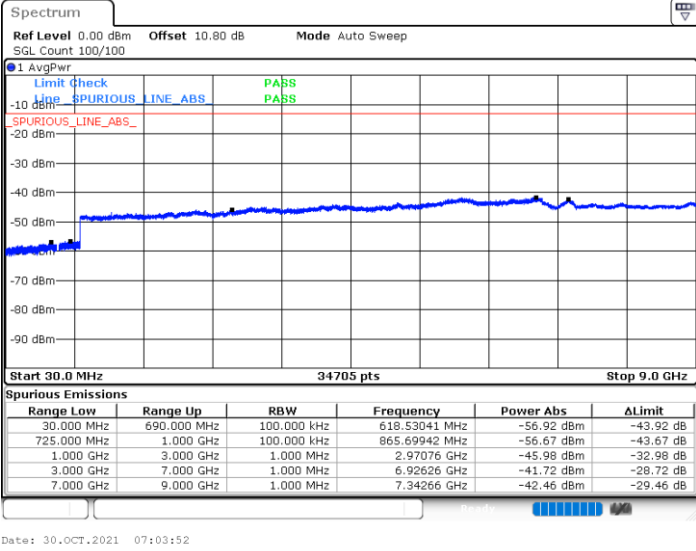




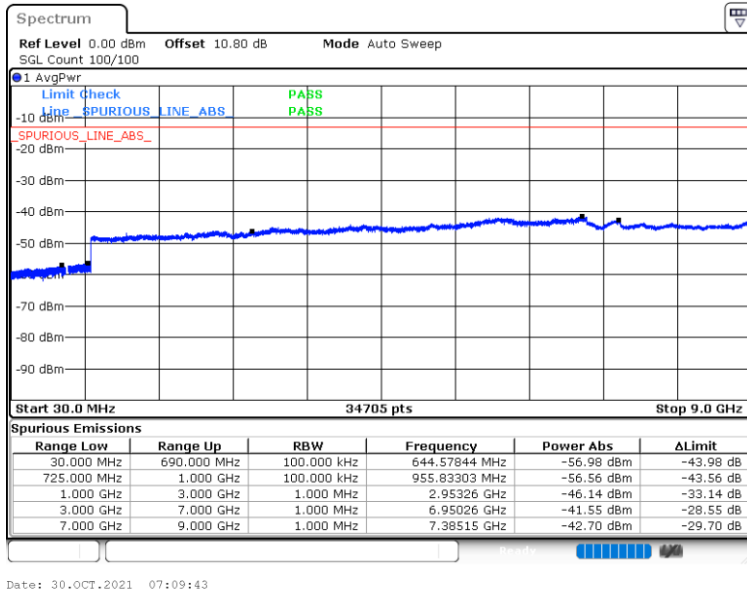
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

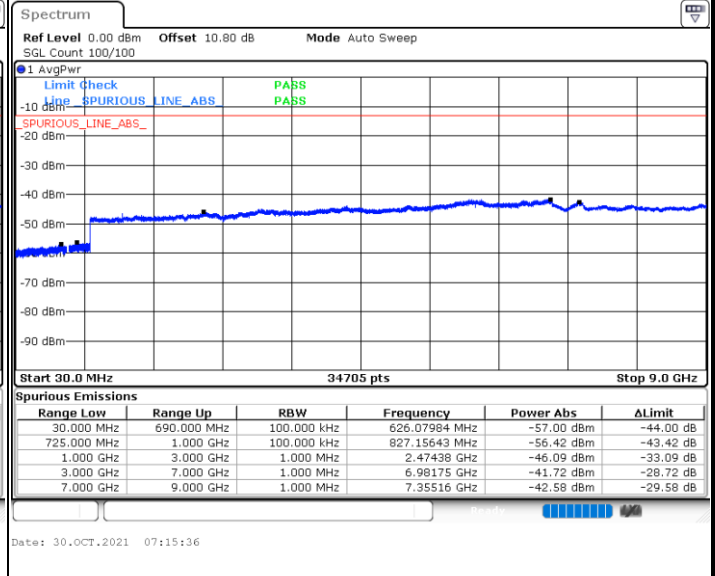
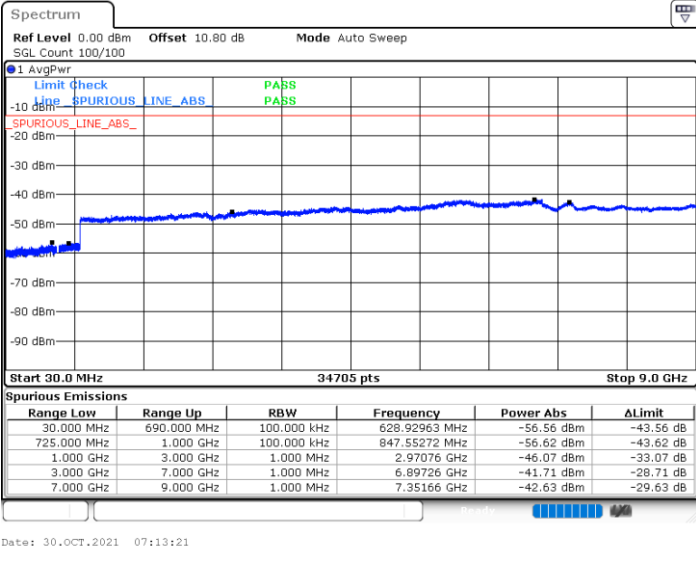




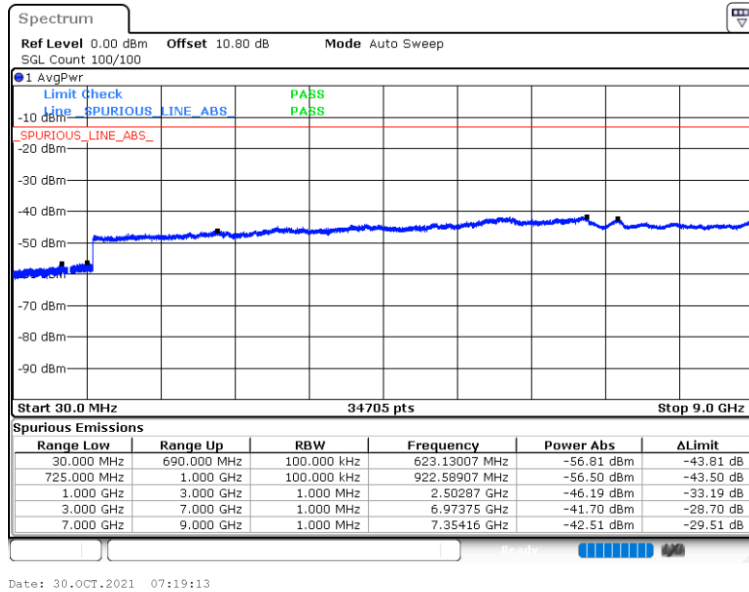
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

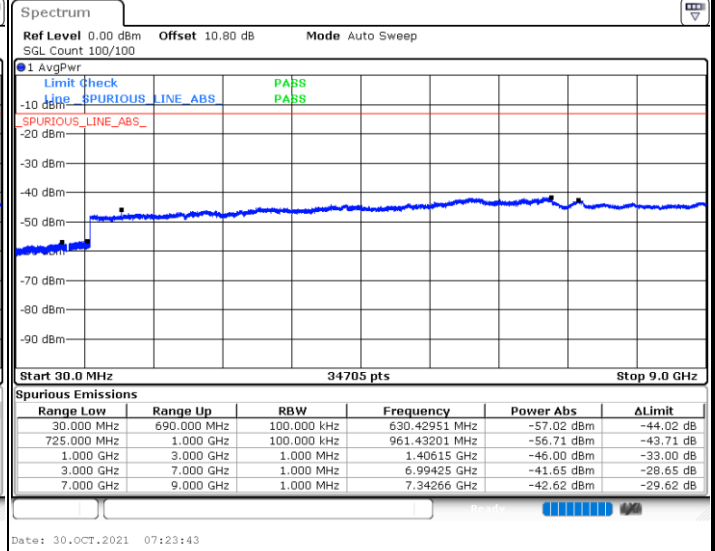
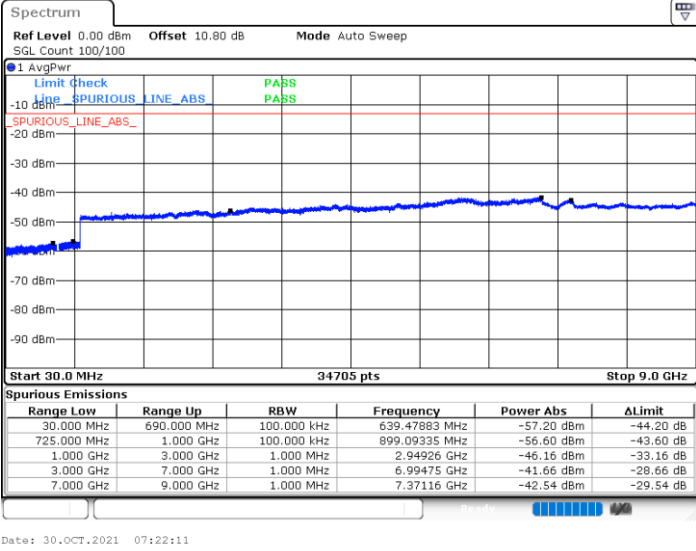




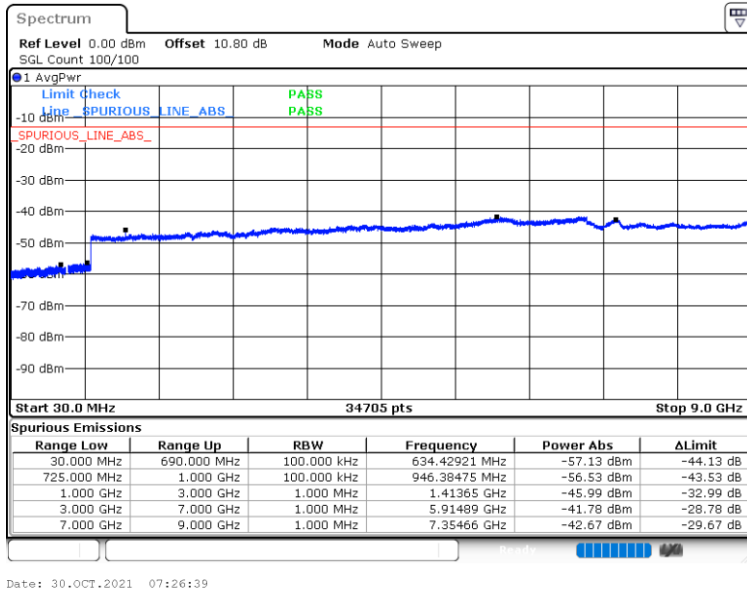
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0075	PASS
40	Normal Voltage	0.0064	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0130	
0	Normal Voltage	0.0106	
-10	Normal Voltage	0.0081	
-20	Normal Voltage	0.0113	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0131	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0124	

Note:

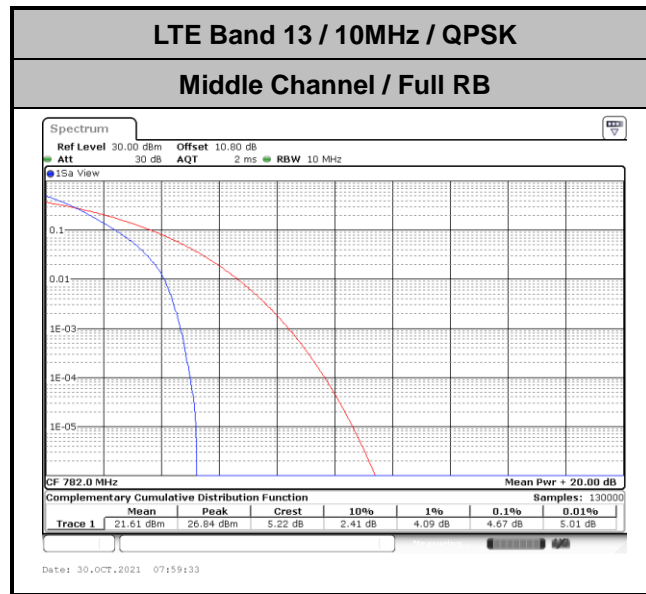
- 1. Normal Voltage =12.00 V. ; Battery End Point (BEP) =8.00 V. ; Maximum Voltage =40.00 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

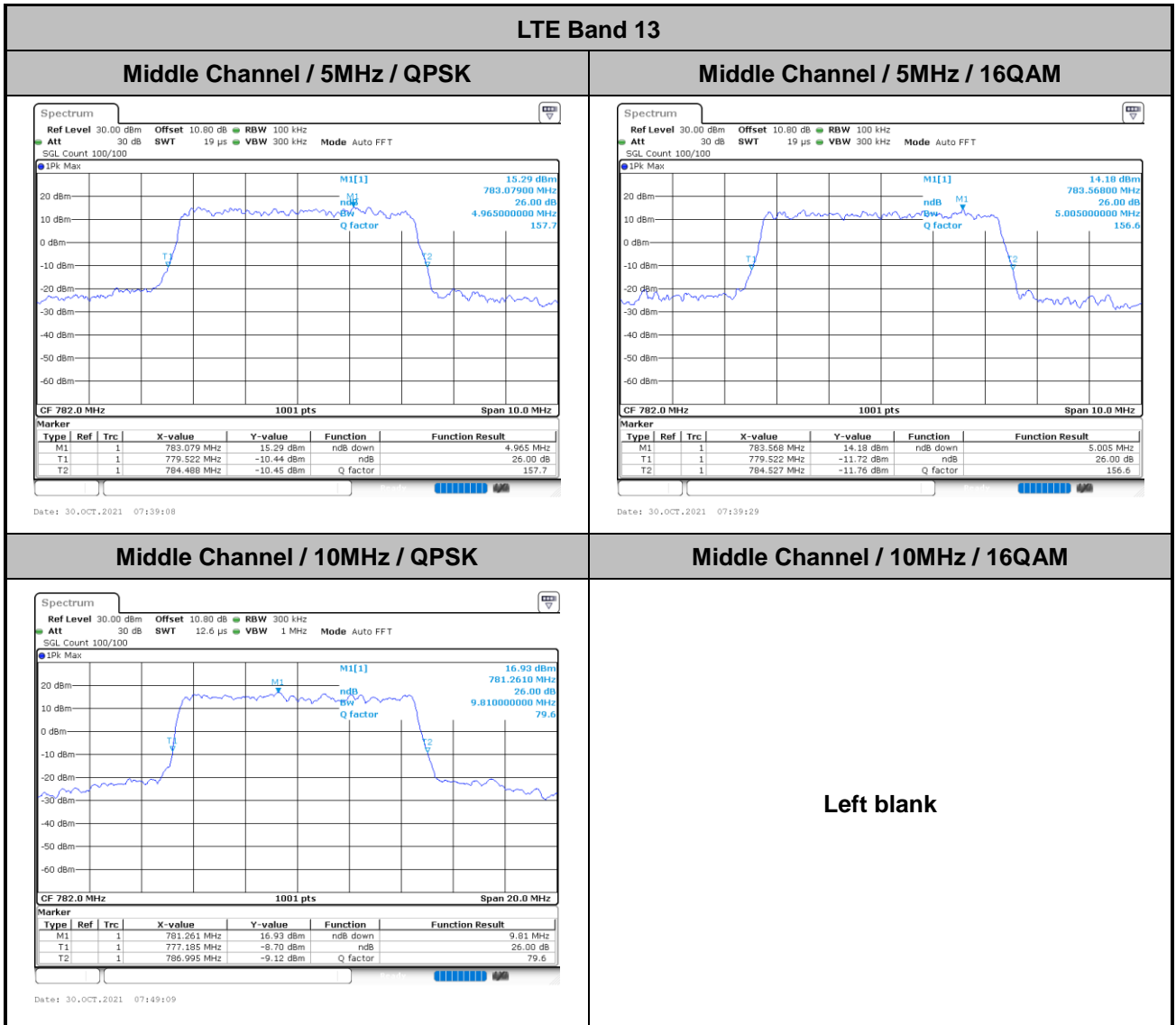
Mode	LTE Band 13 / 10MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	4.67	PASS





26dB Bandwidth

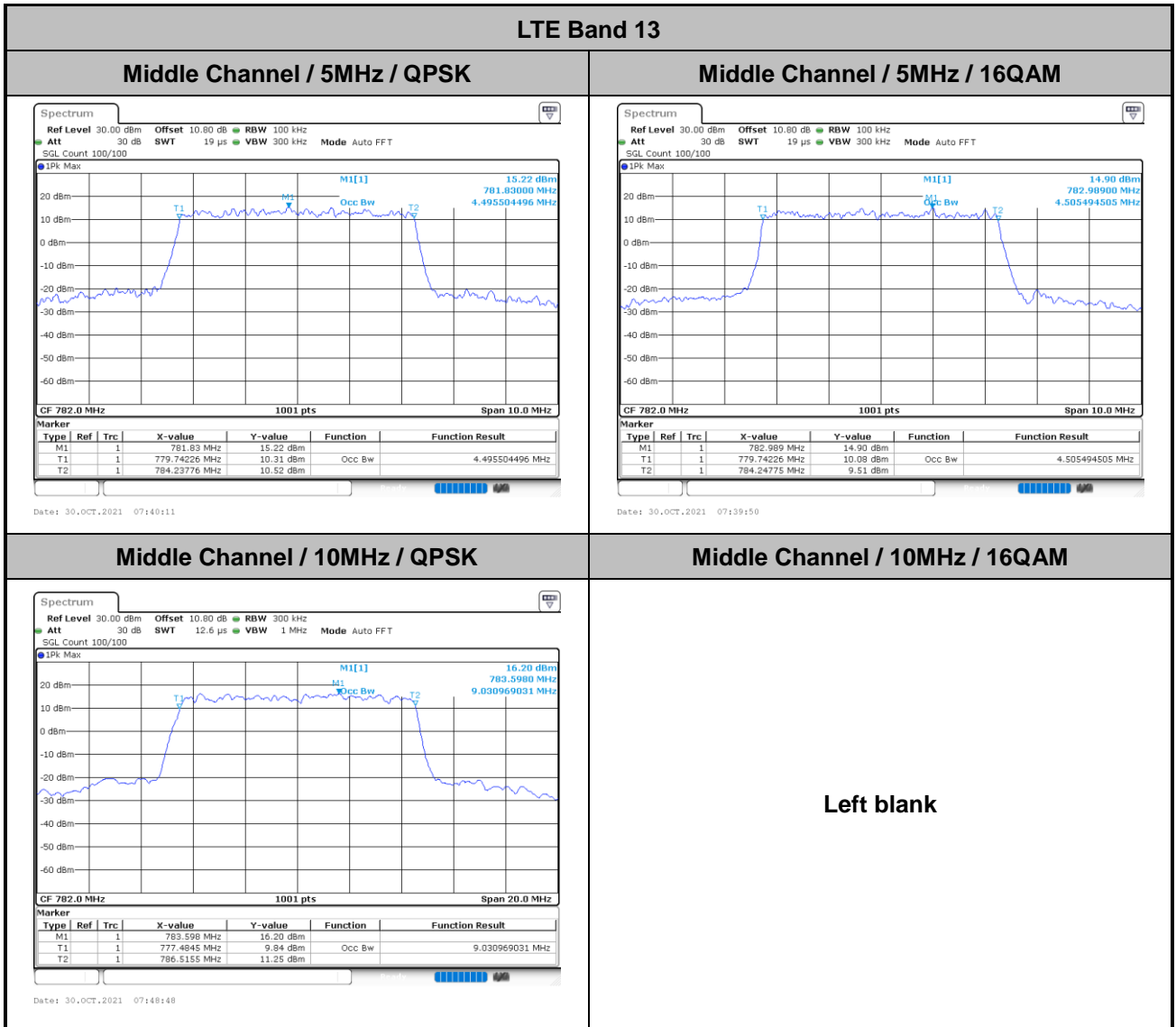
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.97	5.01	9.81	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	-	-	-	-	-	-	-	-





Occupied Bandwidth

Mode		LTE Band 13 : 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	-	-	-	-	4.50	4.51	9.03	-	-	-	-	-	
Mode		LTE Band 13 : 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	-	-	-	-	-	-	-	-	-	-	-	-	



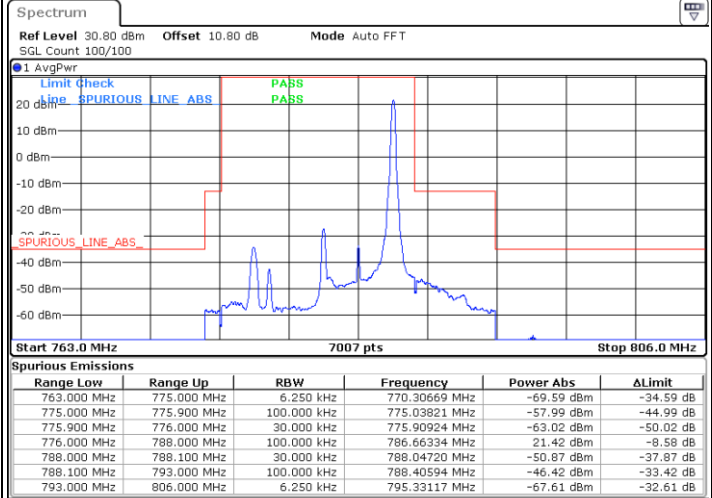
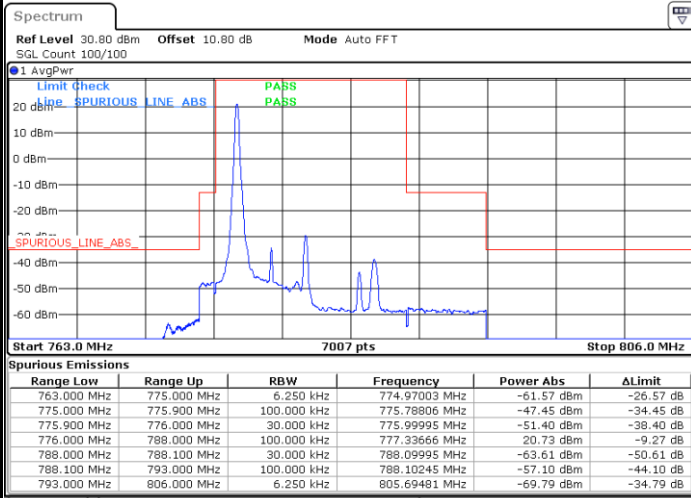


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

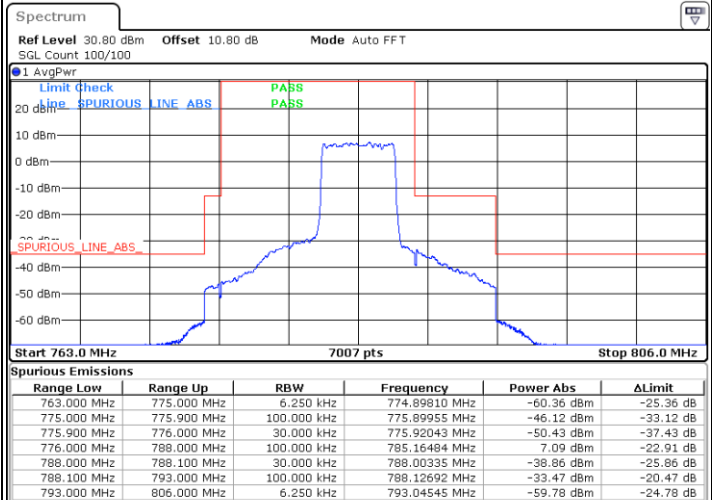
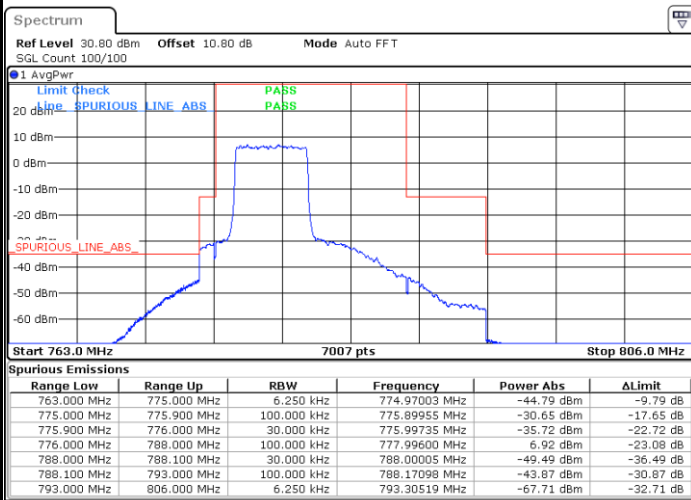


Date: 30.OCT.2021 07:37:05

Date: 30.OCT.2021 07:47:35

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.OCT.2021 07:31:32

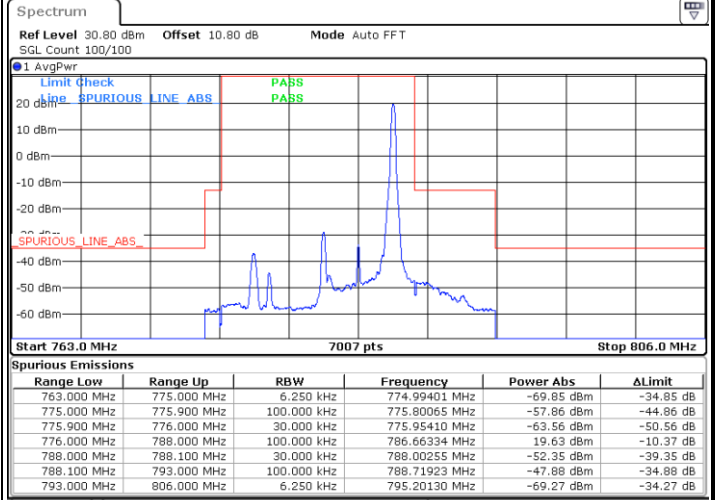
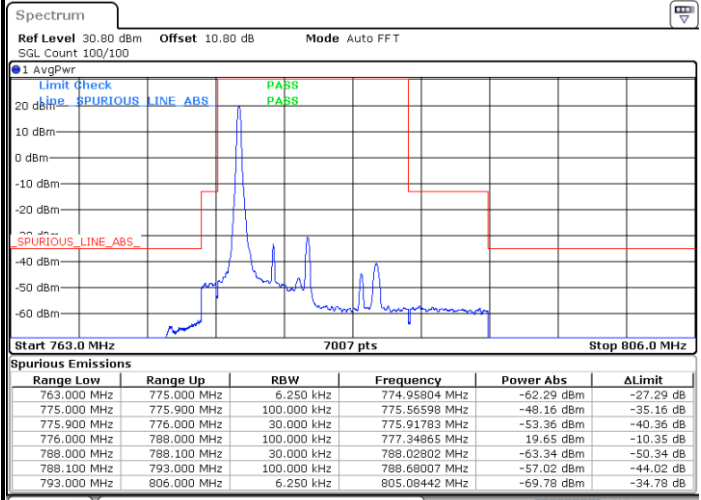
Date: 30.OCT.2021 07:42:02



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

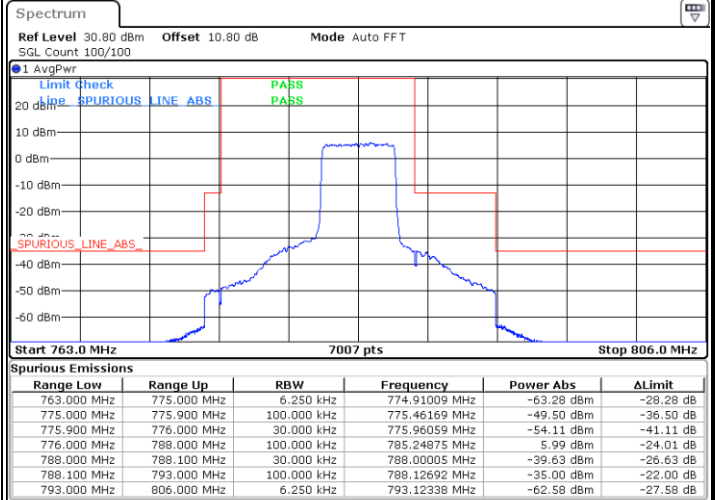
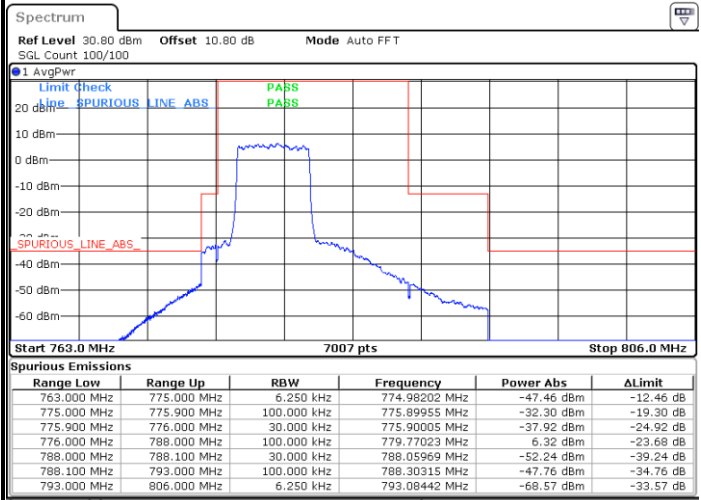


Date: 30.OCT.2021 07:35:14

Date: 30.OCT.2021 07:45:44

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



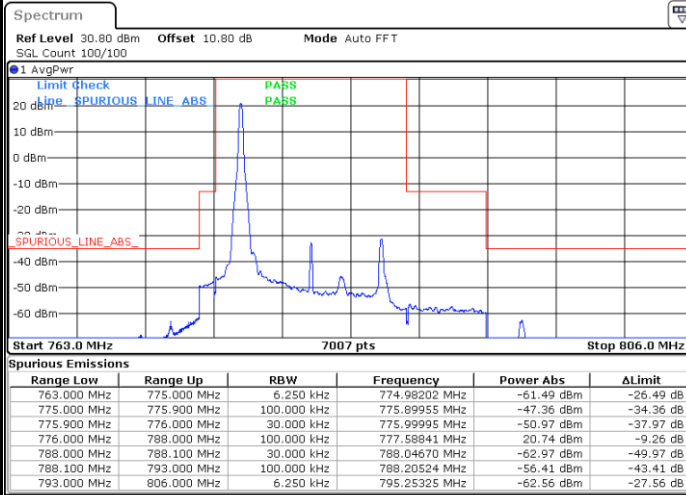
Date: 30.OCT.2021 07:33:23

Date: 30.OCT.2021 07:43:53



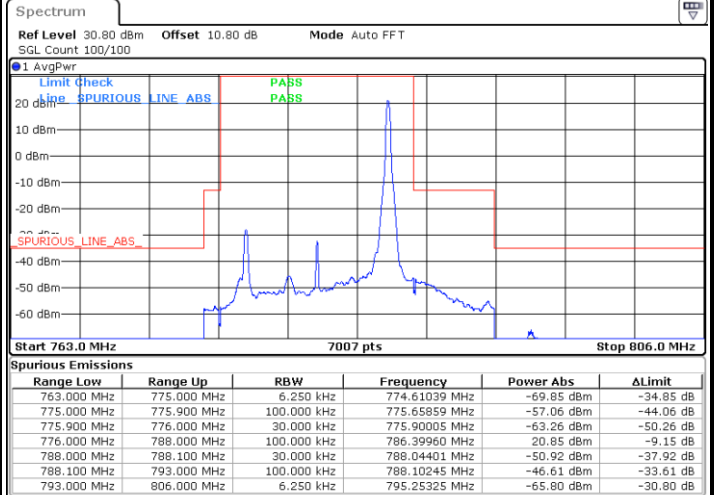
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



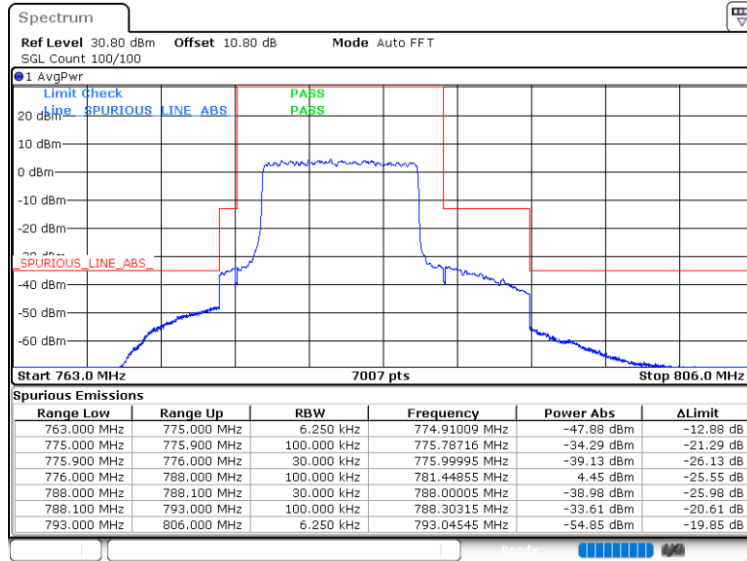
Date: 30.OCT.2021 07:54:40

Highest Band Edge / 1 RB



Date: 30.OCT.2021 07:56:30

Band Edge / Full RB



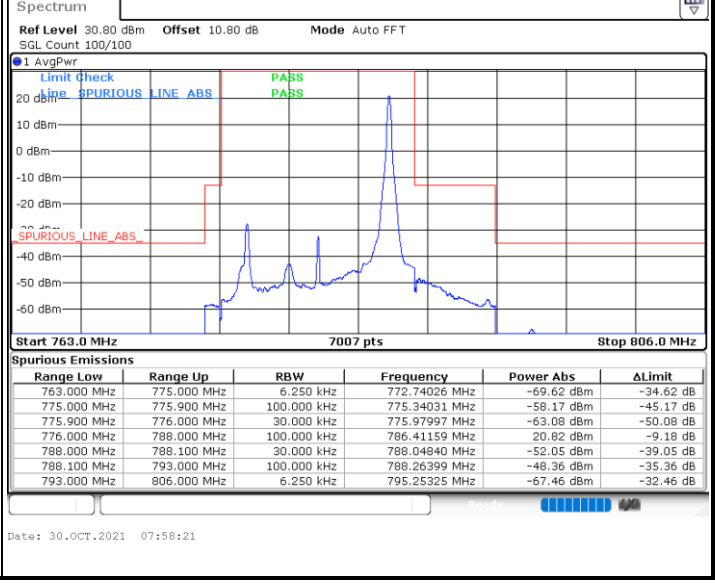
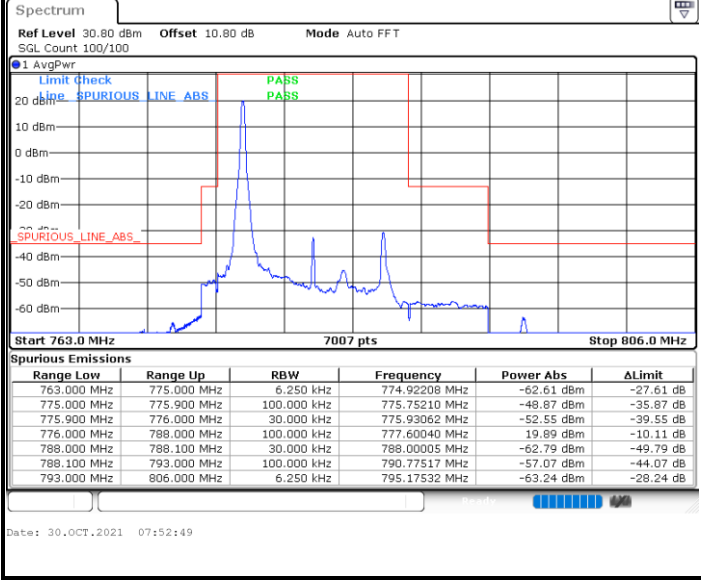
Date: 30.OCT.2021 07:50:59



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

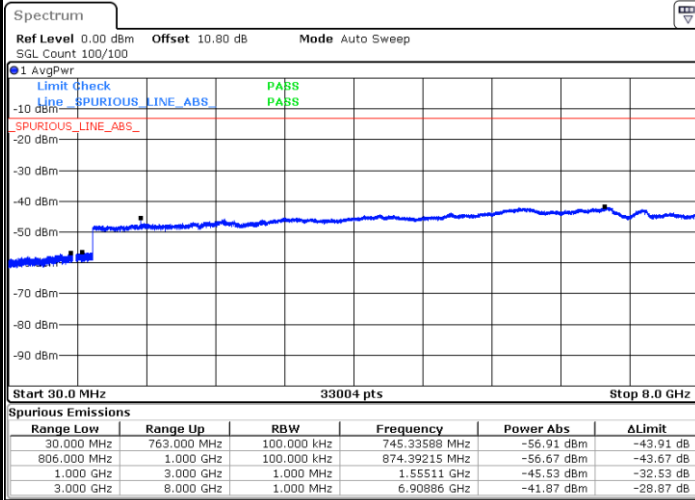




Conducted Spurious Emission

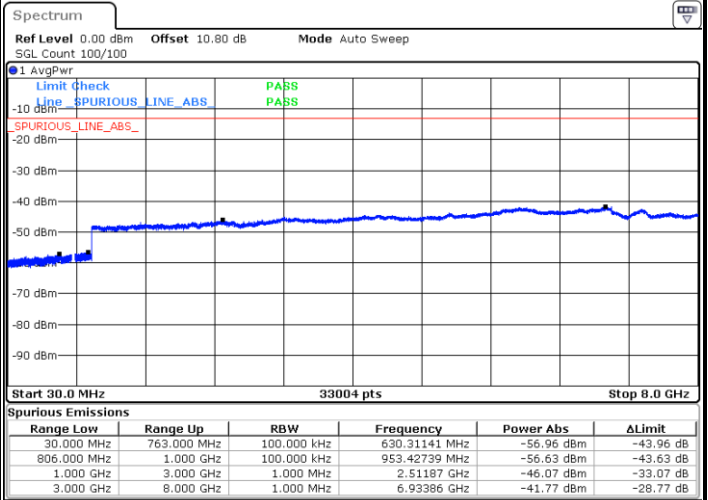
LTE Band 13 / 5MHz

Lowest Channel / QPSK



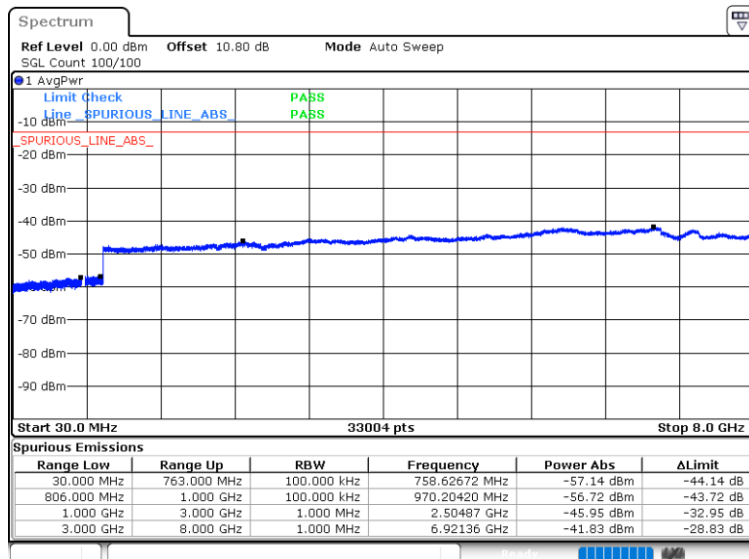
Date: 30.OCT.2021 07:37:56

Middle Channel / QPSK



Date: 30.OCT.2021 07:38:46

Highest Channel / QPSK

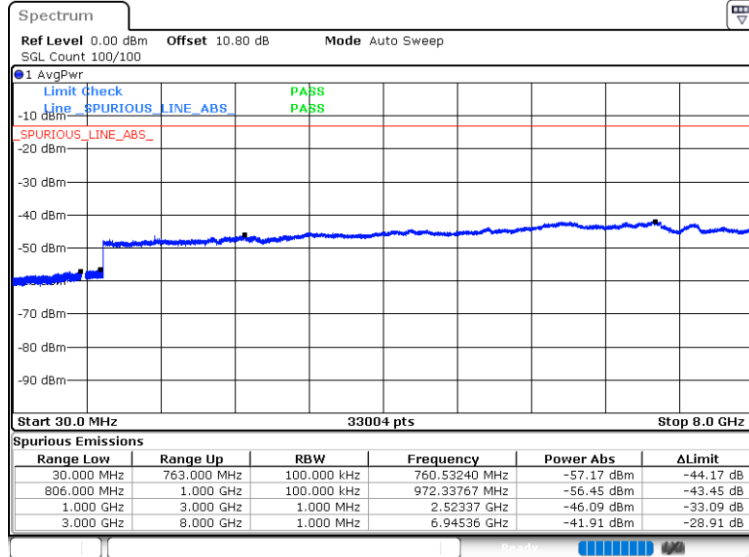


Date: 30.OCT.2021 07:48:25



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 30.OCT.2021 07:59:11



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0084	
30	Normal Voltage	0.0216	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0168	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0182	
-20	Normal Voltage	0.0173	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0106	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0210	

Note:

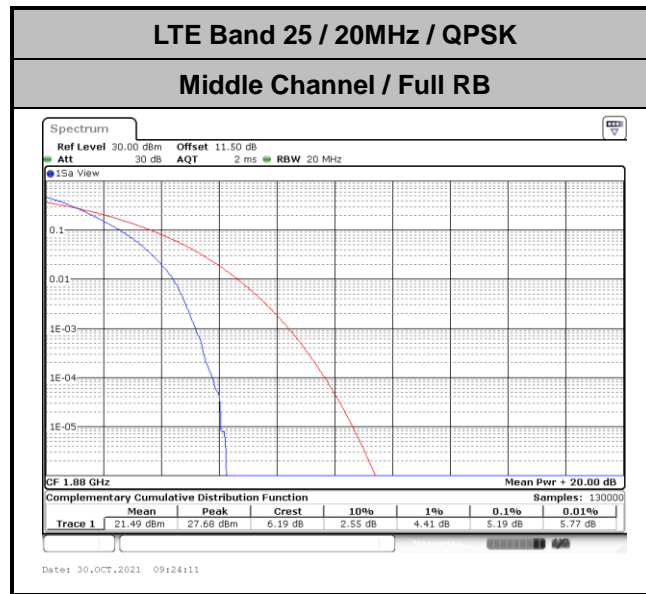
- 1. Normal Voltage =12.00 V. ; Battery End Point (BEP) =8.00 V. ; Maximum Voltage =40.00 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	5.19	PASS





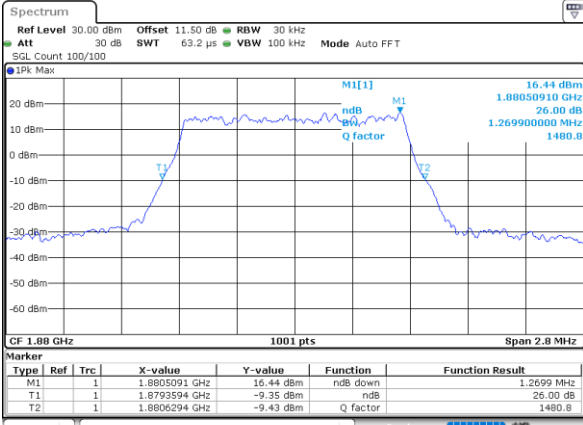
26dB Bandwidth

Mode	LTE Band 25 : 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	1.27	1.28	3.03	3.02	4.92	4.89	9.95	-	14.27	-	19.14	-
Mode	LTE Band 25 : 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	-	-	-	-	-	-	-	-	-	-	-	-



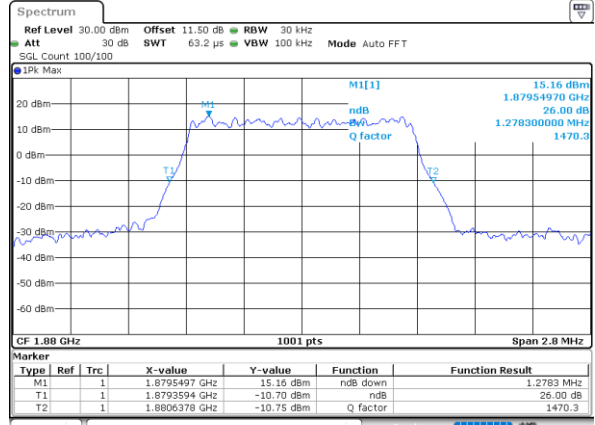
LTE Band 25

Middle Channel / 1.4MHz / QPSK



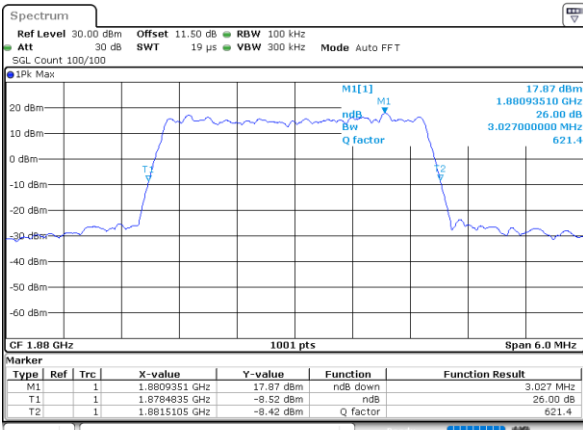
Date: 30.OCT.2021 08:31:19

Middle Channel / 1.4MHz / 16QAM



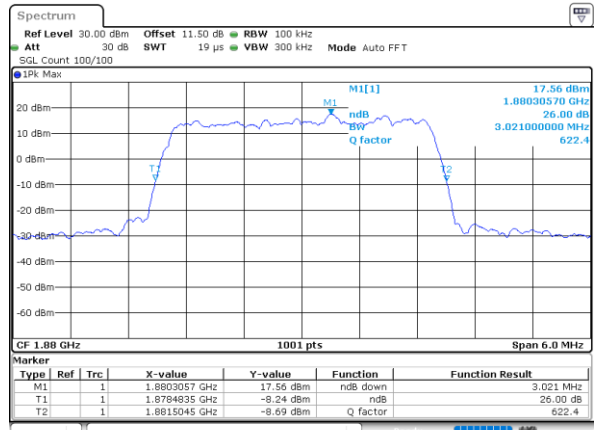
Date: 30.OCT.2021 08:31:41

Middle Channel / 3MHz / QPSK



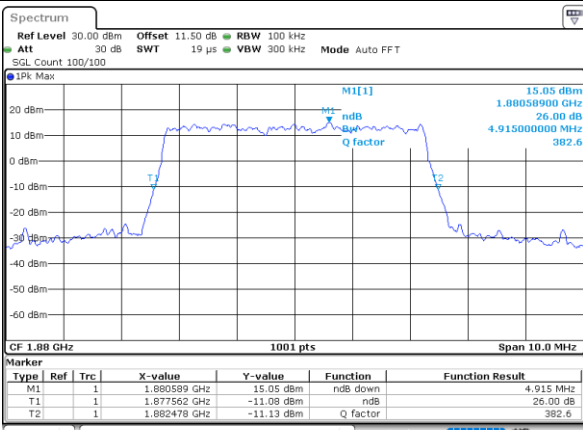
Date: 30.OCT.2021 08:42:11

Middle Channel / 3MHz / 16QAM



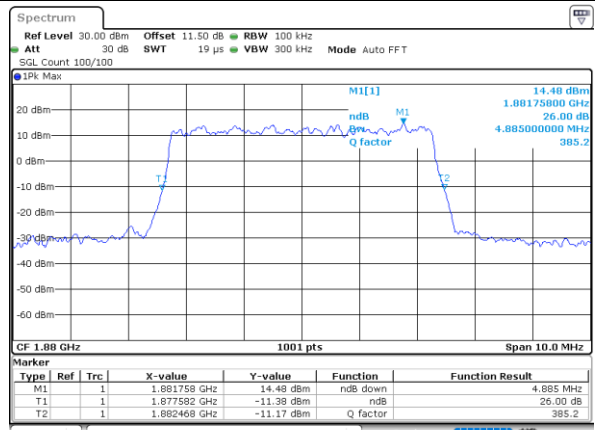
Date: 30.OCT.2021 08:42:32

Middle Channel / 5MHz / QPSK

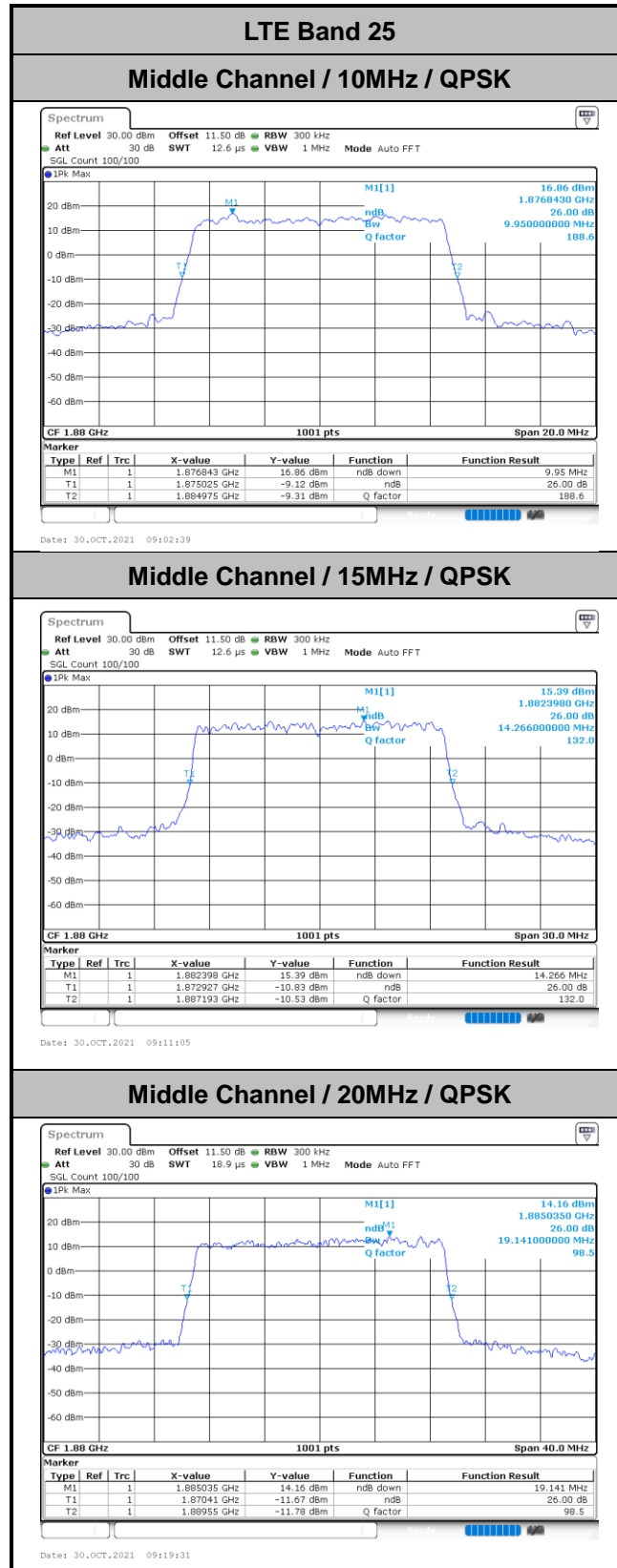


Date: 30.OCT.2021 08:53:00

Middle Channel / 5MHz / 16QAM



Date: 30.OCT.2021 08:53:22





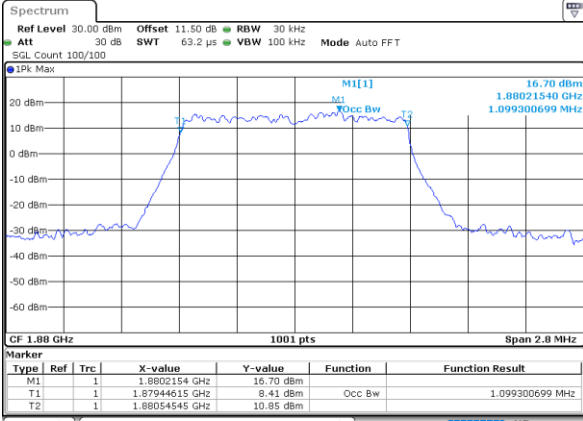
Occupied Bandwidth

Mode	LTE Band 25 : 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	1.10	1.09	2.72	2.72	4.48	4.46	9.05	-	13.34	-	17.90	-
Mode	LTE Band 25 : 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	-	-	-	-	-	-	-	-	-	-	-	-



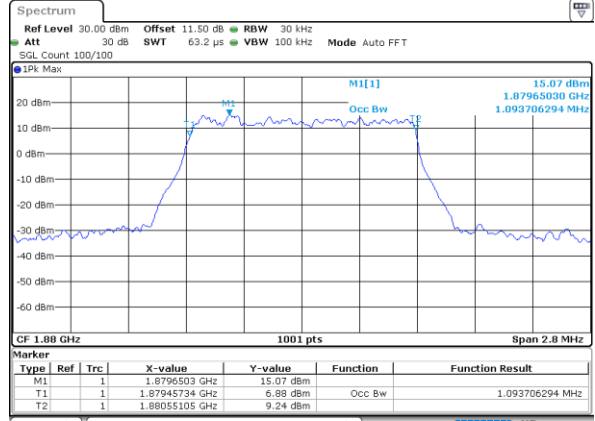
LTE Band 25

Middle Channel / 1.4MHz / QPSK



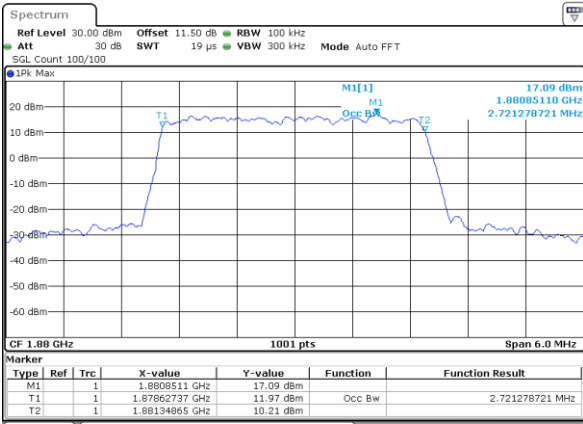
Date: 30.OCT.2021 08:30:36

Middle Channel / 1.4MHz / 16QAM



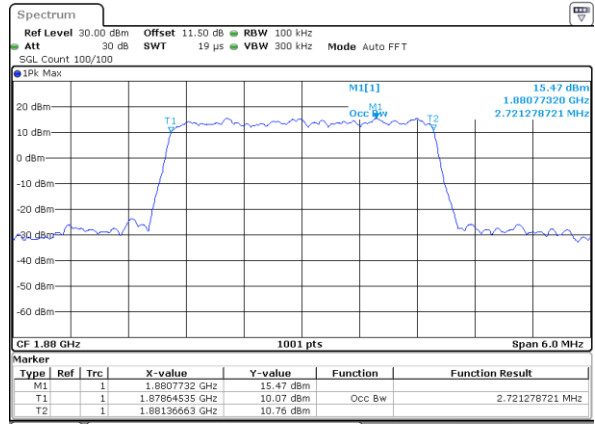
Date: 30.OCT.2021 08:30:58

Middle Channel / 3MHz / QPSK



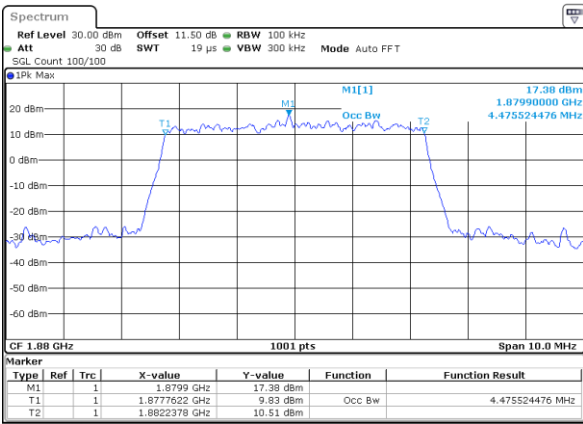
Date: 30.OCT.2021 08:41:27

Middle Channel / 3MHz / 16QAM



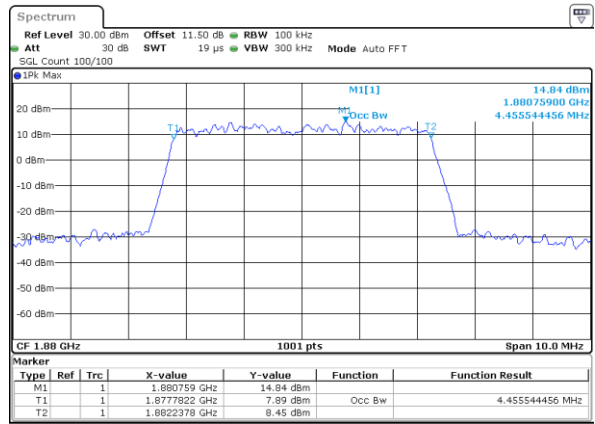
Date: 30.OCT.2021 08:41:49

Middle Channel / 5MHz / QPSK

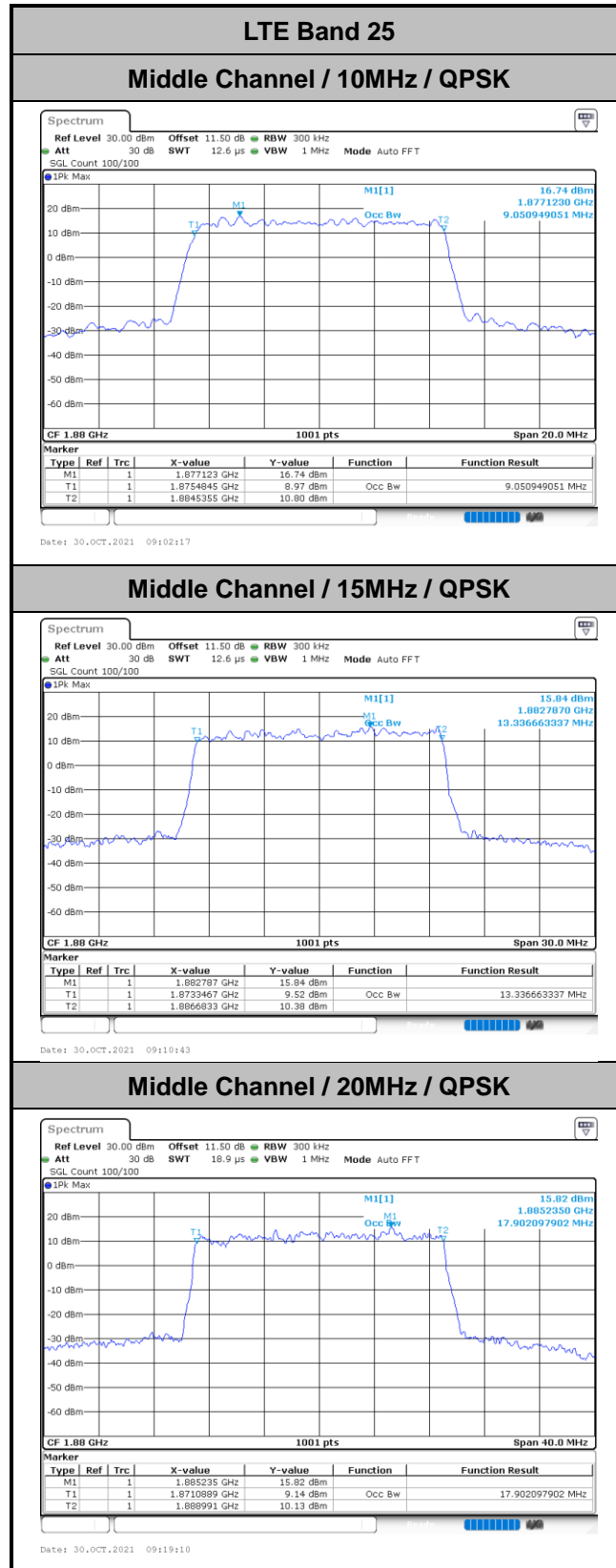


Date: 30.OCT.2021 08:52:17

Middle Channel / 5MHz / 16QAM



Date: 30.OCT.2021 08:52:39

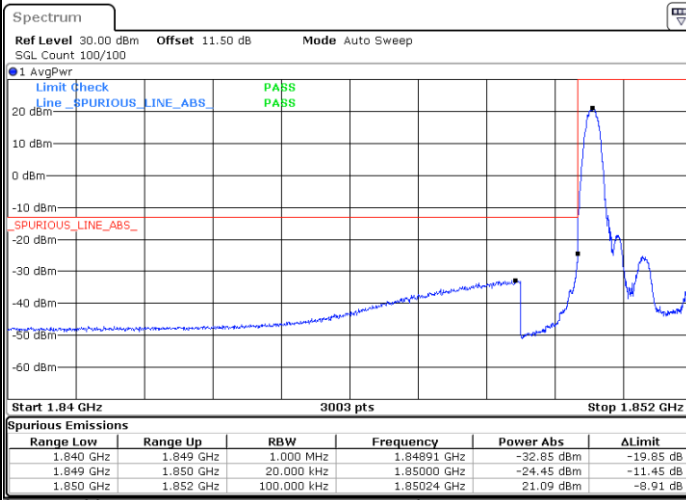




Conducted Band Edge

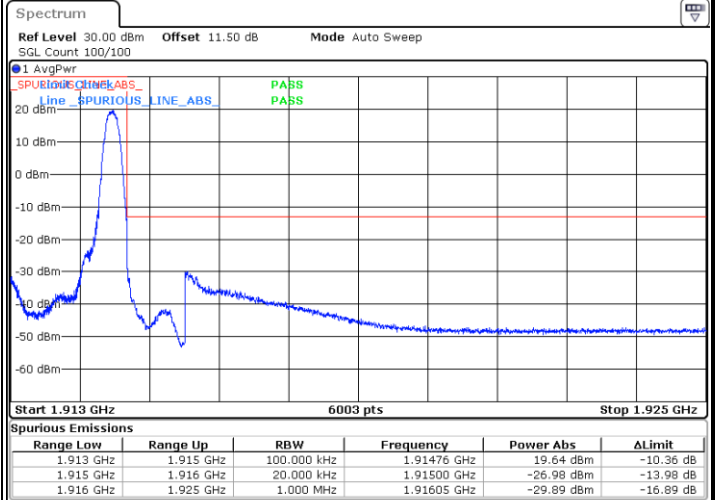
LTE Band 25 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



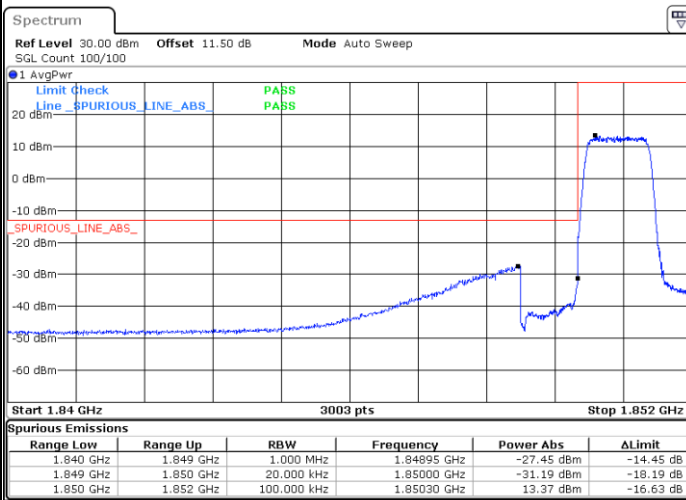
Date: 30.OCT.2021 08:13:25

Highest Band Edge / 1RB



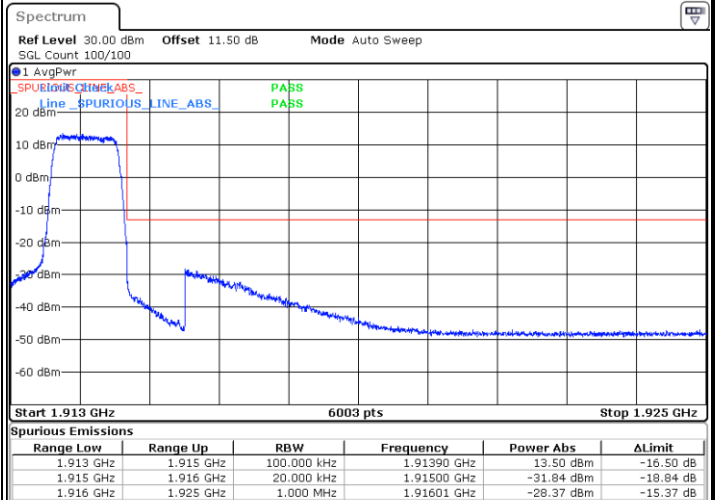
Date: 30.OCT.2021 08:35:56

Lowest Band Edge / Full RB



Date: 30.OCT.2021 08:28:31

Highest Band Edge / Full RB

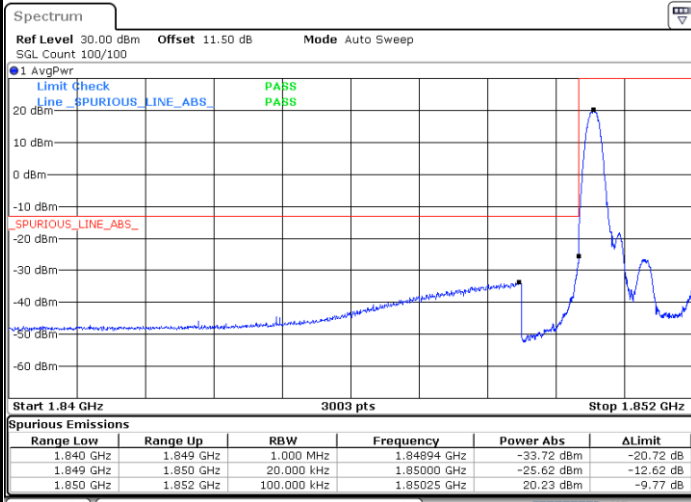


Date: 30.OCT.2021 08:33:24

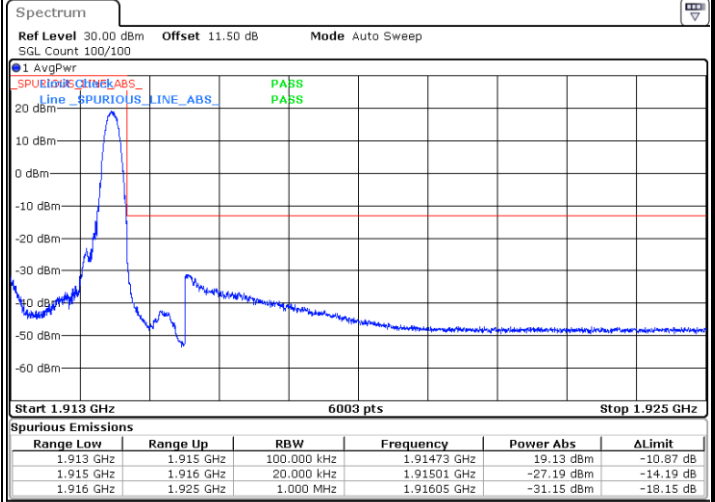


LTE Band 25 / 1.4MHz / 16QAM

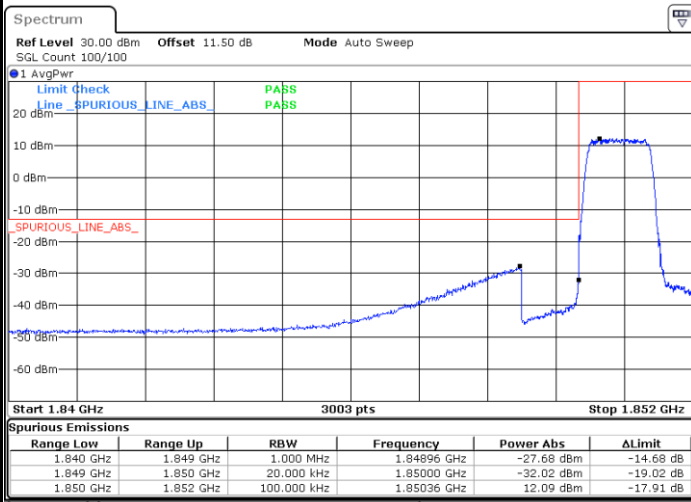
Lowest Band Edge / 1 RB



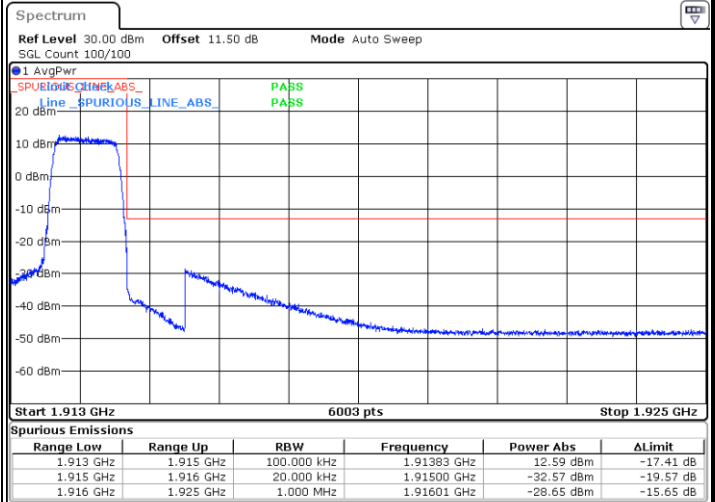
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



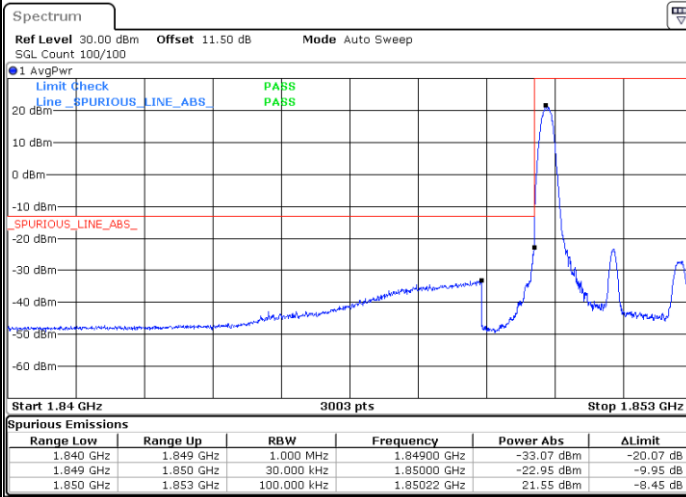
Highest Band Edge / Full RB





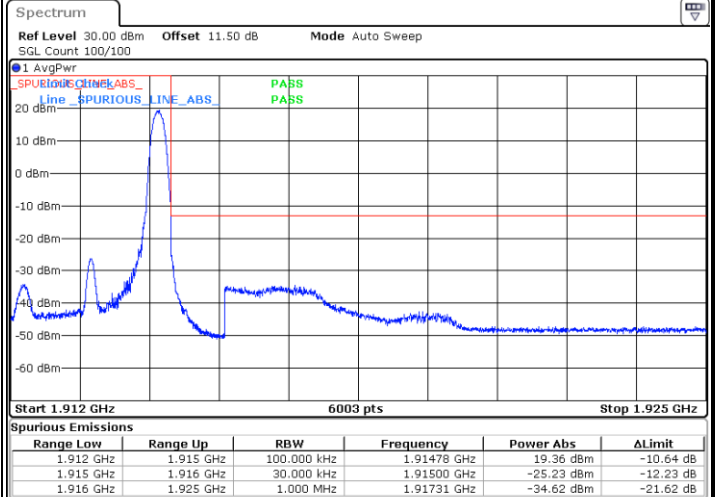
LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / 1RB



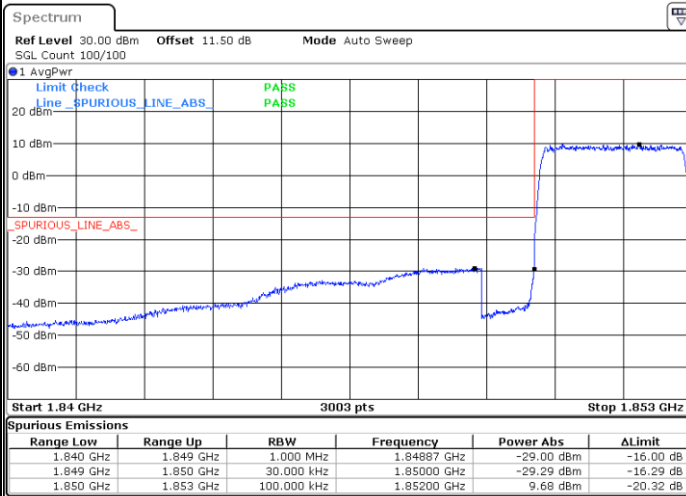
Date: 30.OCT.2021 08:37:41

Highest Band Edge / 1 RB



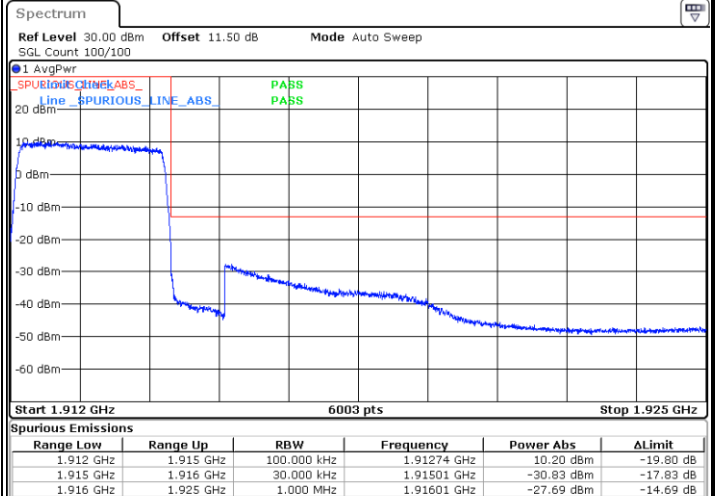
Date: 30.OCT.2021 08:46:48

Lowest Band Edge / Full RB



Date: 30.OCT.2021 08:39:22

Highest Band Edge / Full RB

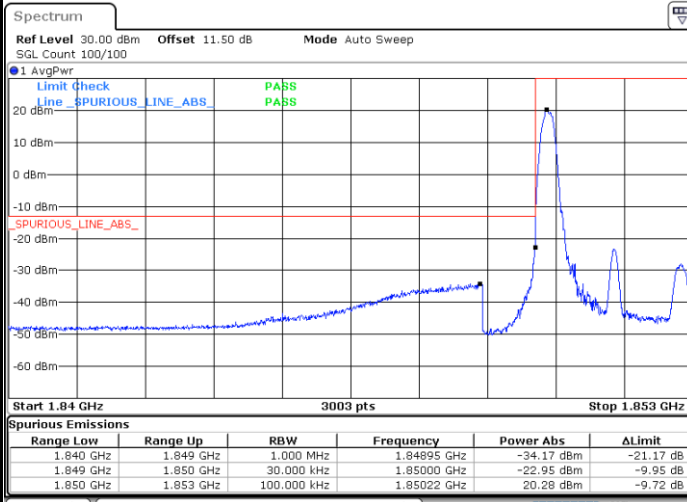


Date: 30.OCT.2021 08:44:15



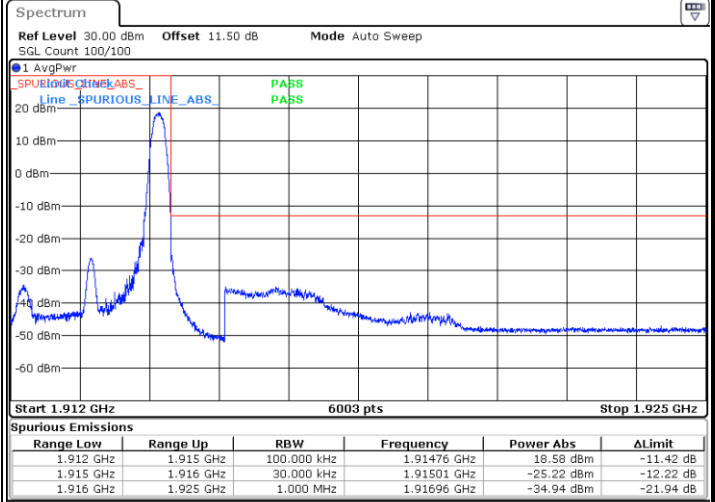
LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



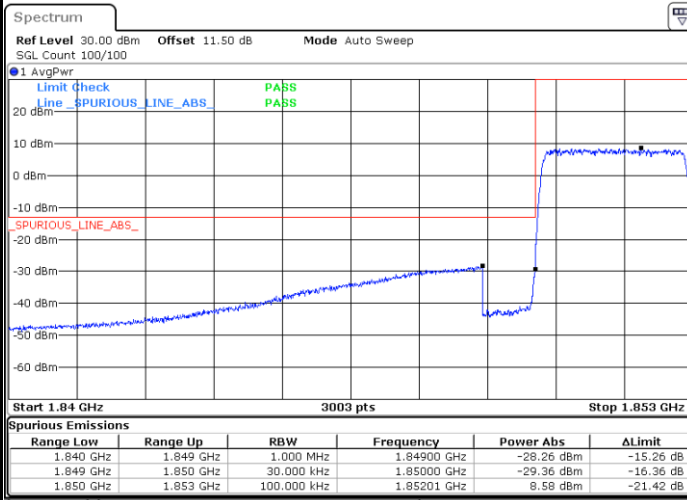
Date: 30.OCT.2021 08:38:32

Highest Band Edge / 1 RB



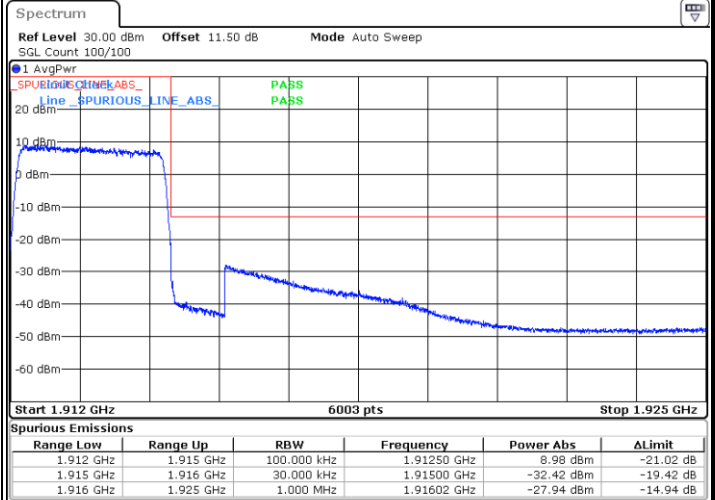
Date: 30.OCT.2021 08:45:57

Lowest Band Edge / Full RB



Date: 30.OCT.2021 08:40:13

Highest Band Edge / Full RB

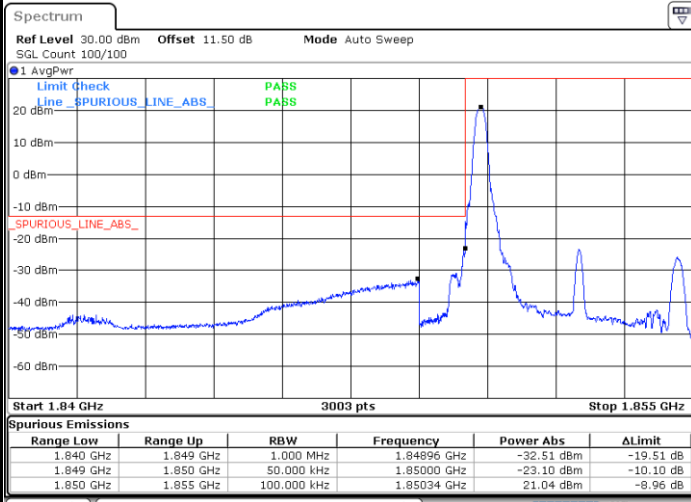


Date: 30.OCT.2021 08:45:06



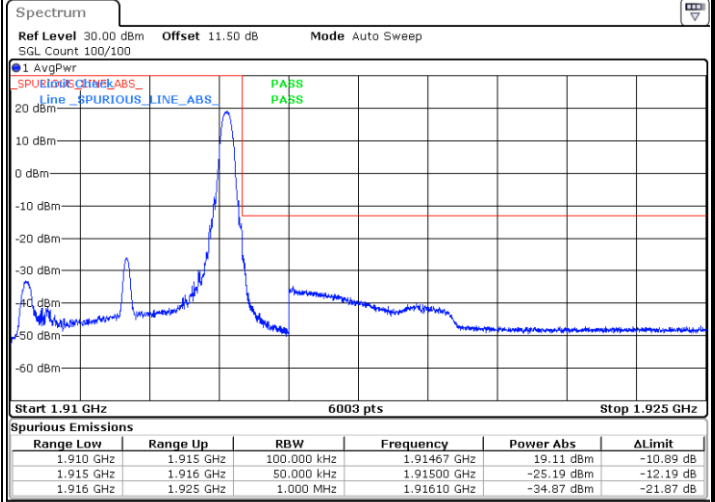
LTE Band 25 / 5MHz / QPSK

Lowest Band Edge / 1 RB



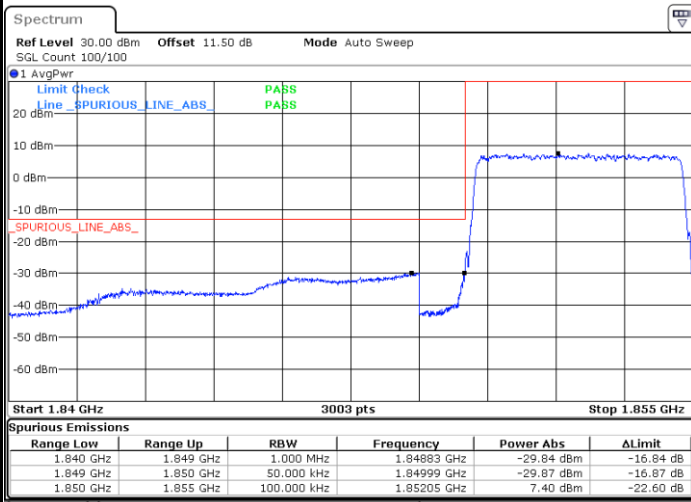
Date: 30.OCT.2021 08:48:30

Highest Band Edge / 1 RB



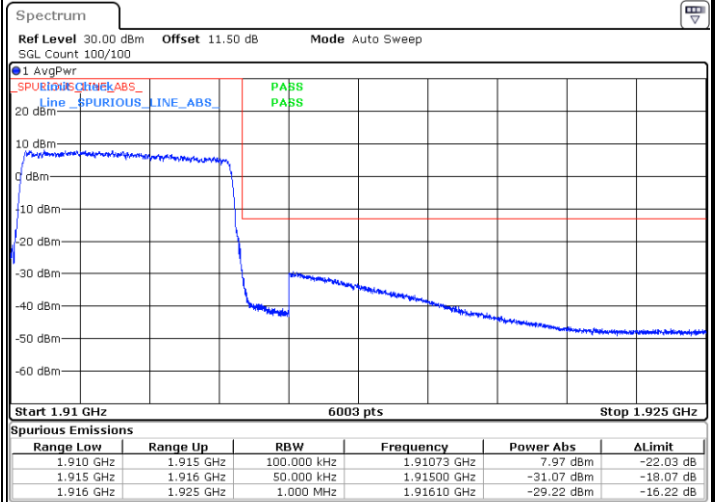
Date: 30.OCT.2021 08:57:37

Lowest Band Edge / Full RB



Date: 30.OCT.2021 08:50:12

Highest Band Edge / Full RB

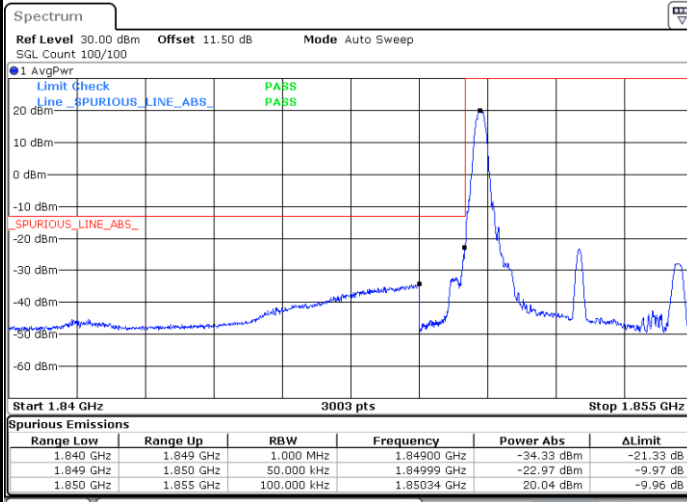


Date: 30.OCT.2021 08:55:05



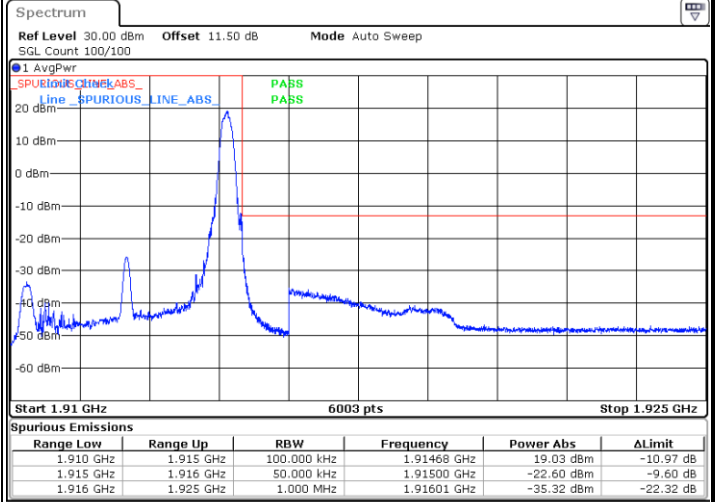
LTE Band 25 / 5MHz / 16QAM

Lowest Band Edge / 1RB



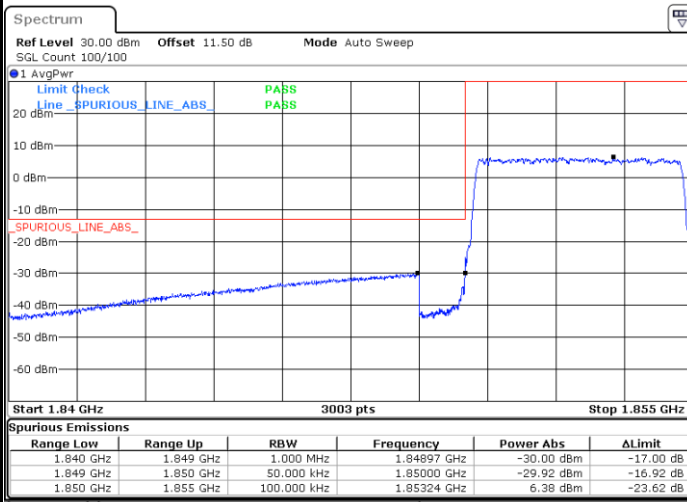
Date: 30.OCT.2021 08:49:21

Highest Band Edge / 1 RB



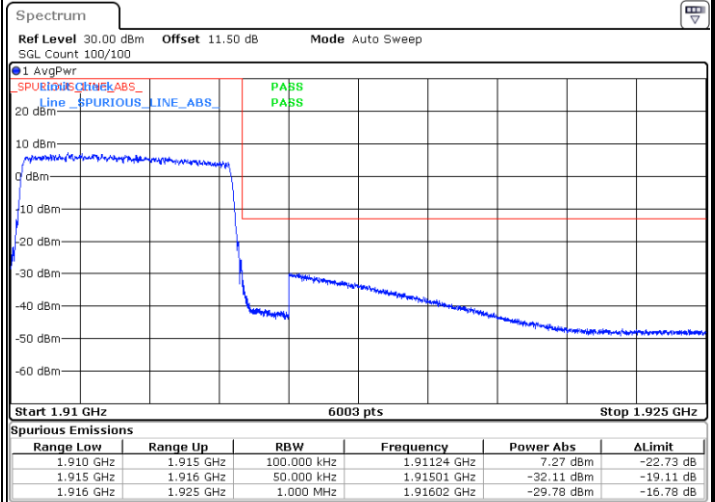
Date: 30.OCT.2021 08:56:46

Lowest Band Edge / Full RB



Date: 30.OCT.2021 08:51:03

Highest Band Edge / Full RB

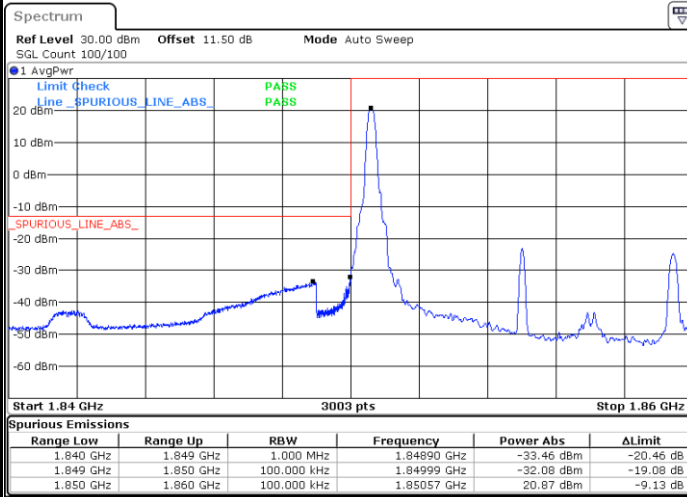


Date: 30.OCT.2021 08:55:56



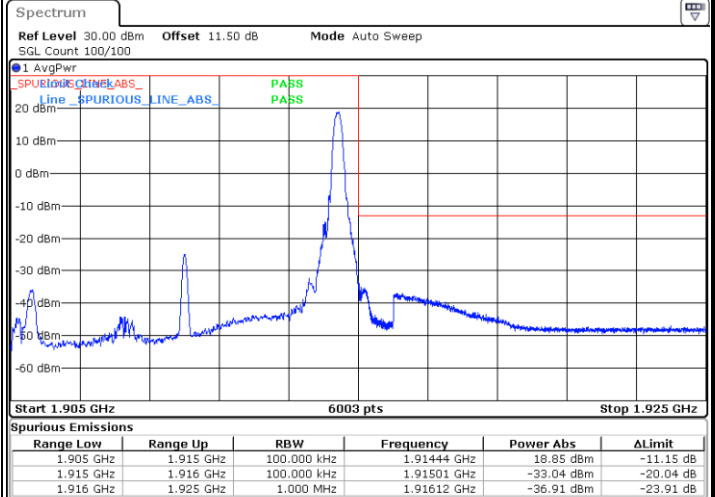
LTE Band 25 / 10MHz / QPSK

Lowest Band Edge / 1 RB



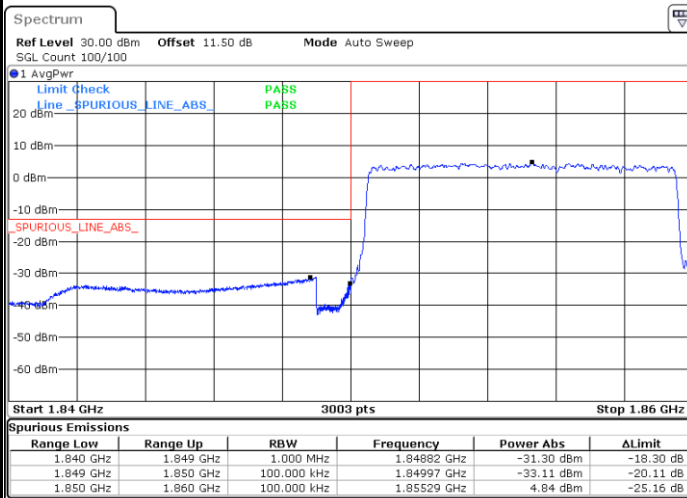
Date: 30.OCT.2021 08:59:21

Highest Band Edge / 1 RB



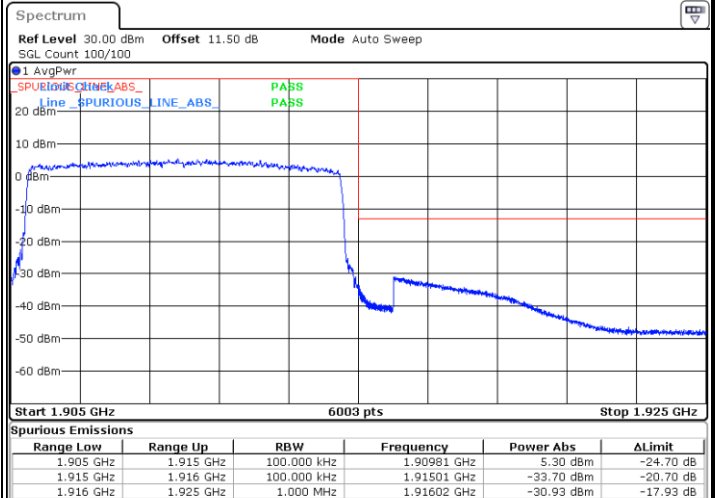
Date: 30.OCT.2021 09:06:04

Lowest Band Edge / Full RB



Date: 30.OCT.2021 09:01:03

Highest Band Edge / Full RB



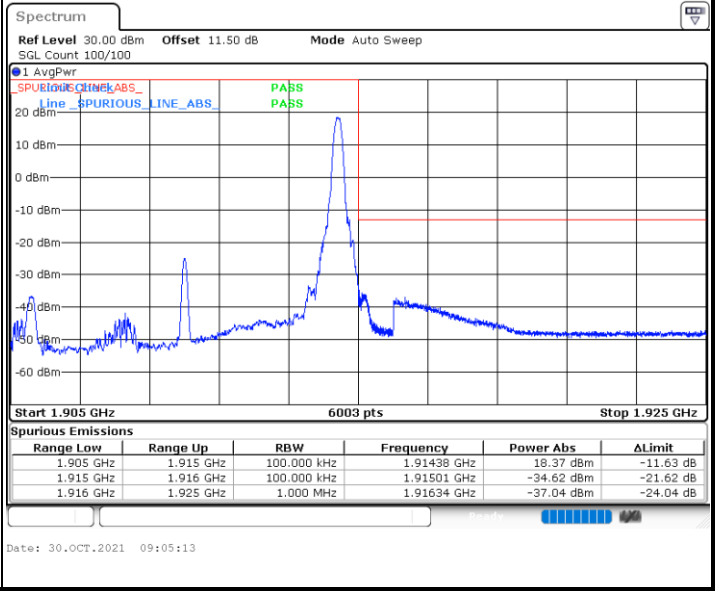
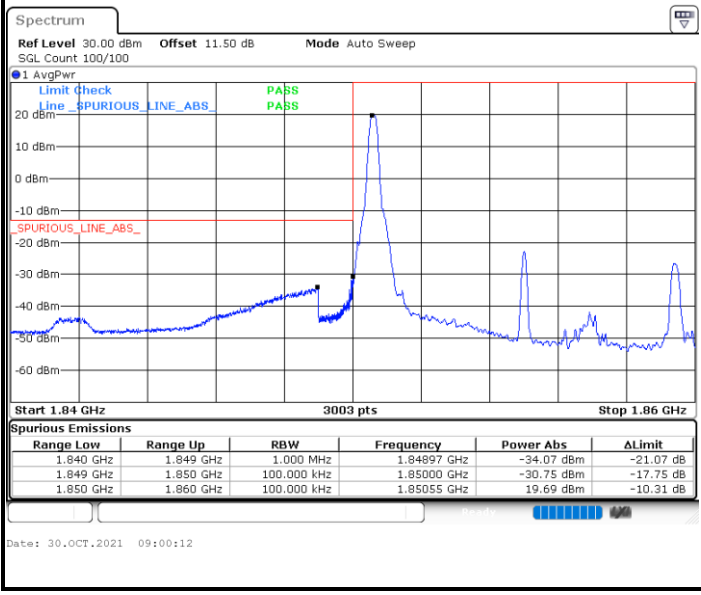
Date: 30.OCT.2021 09:04:22



LTE Band 25 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

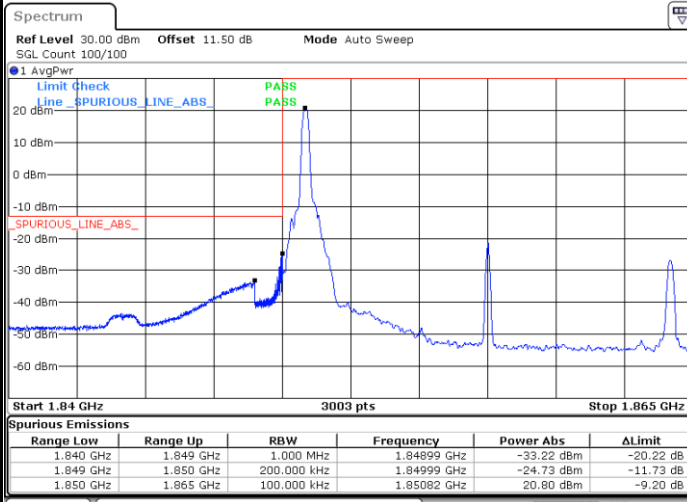
Highest Band Edge / 1 RB





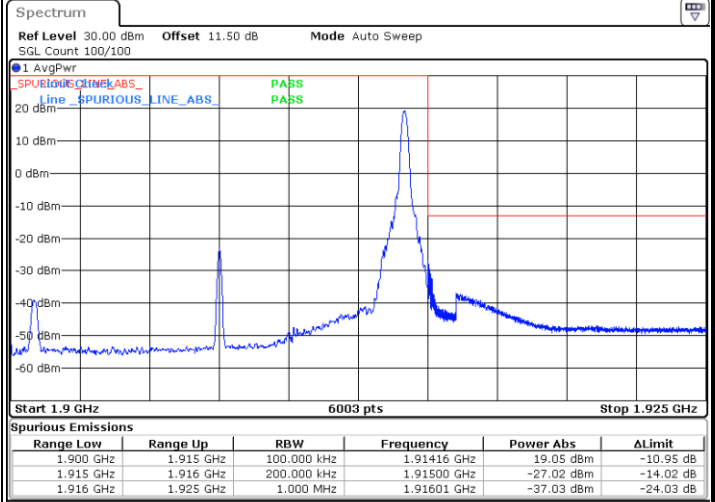
LTE Band 25 / 15MHz / QPSK

Lowest Band Edge / 1 RB



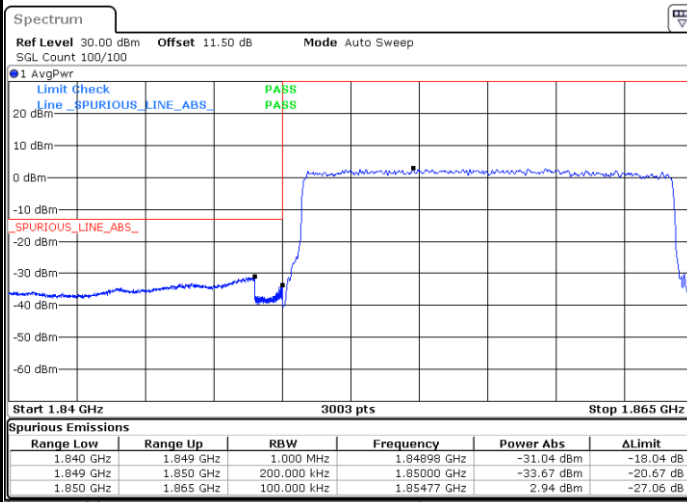
Date: 30.OCT.2021 09:07:47

Highest Band Edge / 1 RB



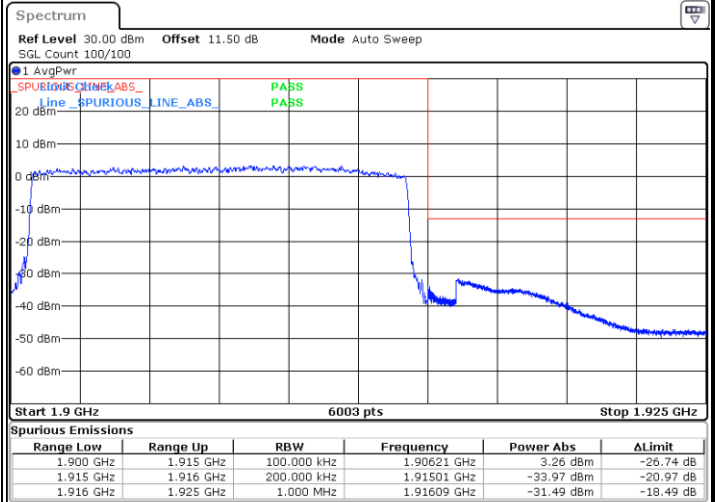
Date: 30.OCT.2021 09:14:30

Lowest Band Edge / Full RB



Date: 30.OCT.2021 09:09:29

Highest Band Edge / Full RB



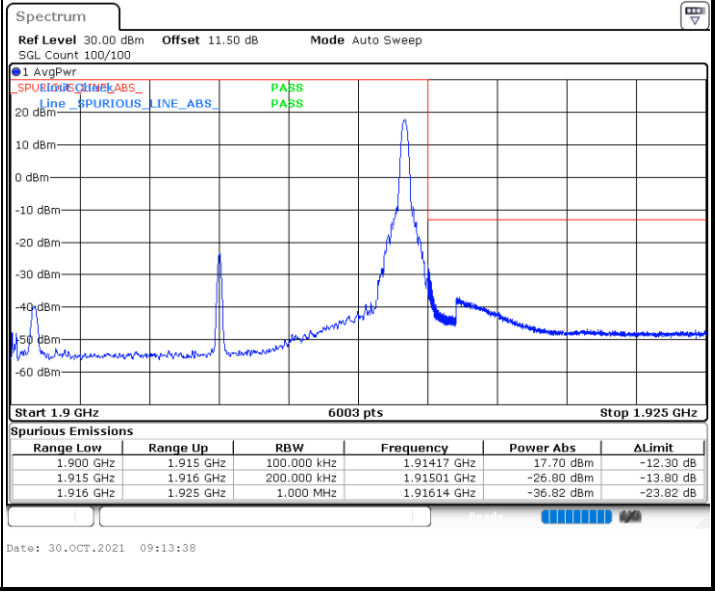
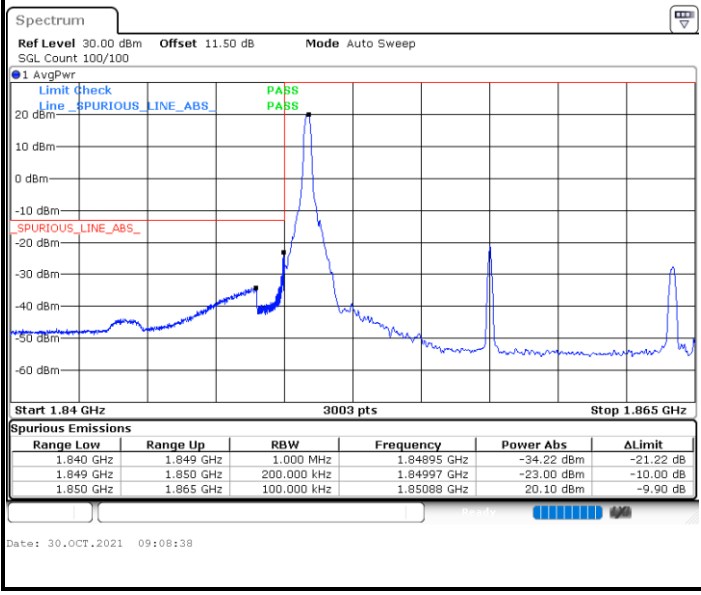
Date: 30.OCT.2021 09:12:47



LTE Band 25 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

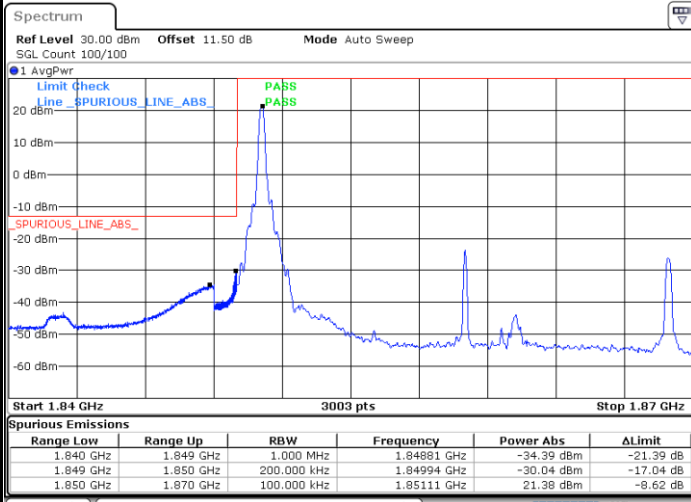
Highest Band Edge / 1 RB





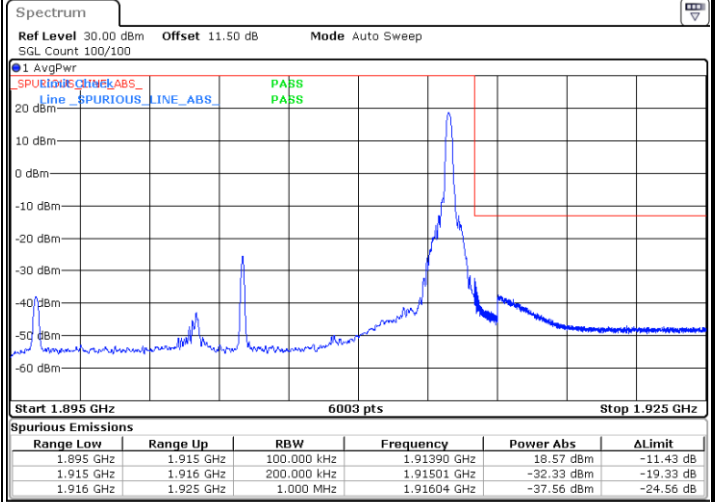
LTE Band 25 / 20MHz / QPSK

Lowest Band Edge / 1 RB



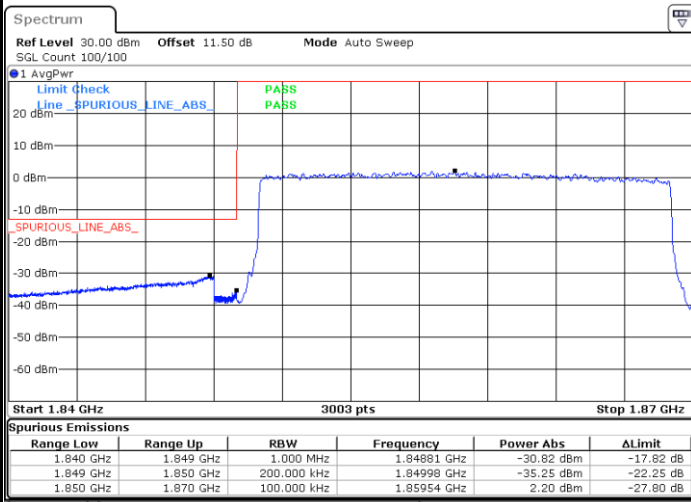
Date: 30.OCT.2021 09:16:14

Highest Band Edge / 1 RB



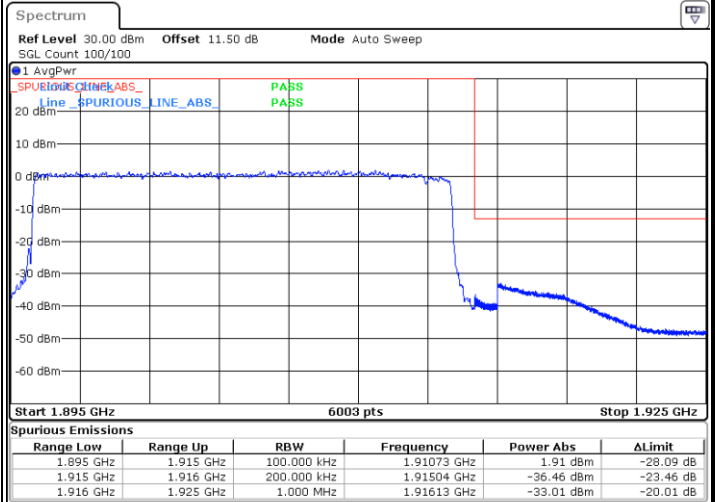
Date: 30.OCT.2021 09:22:56

Lowest Band Edge / Full RB



Date: 30.OCT.2021 09:17:56

Highest Band Edge / Full RB



Date: 30.OCT.2021 09:21:14