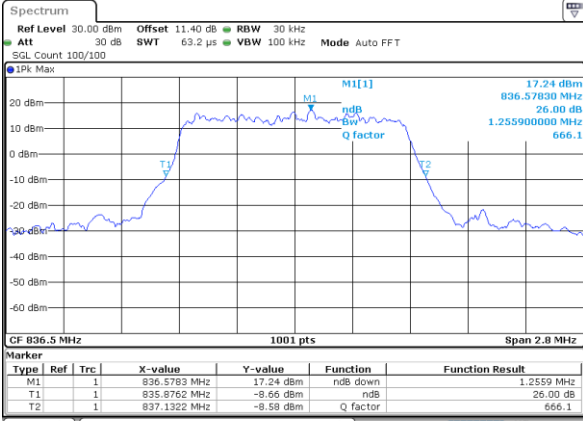




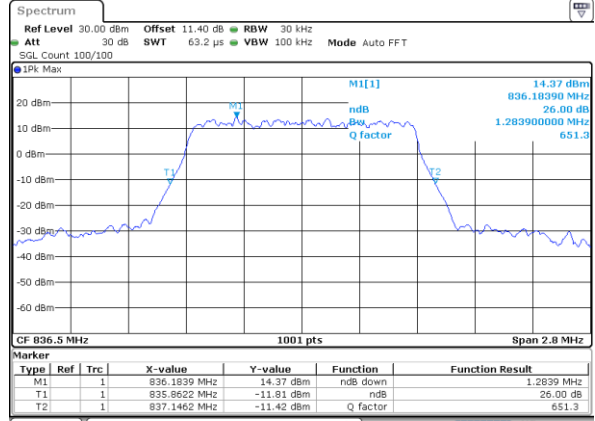
LTE Band 5

Middle Channel / 1.4MHz / QPSK



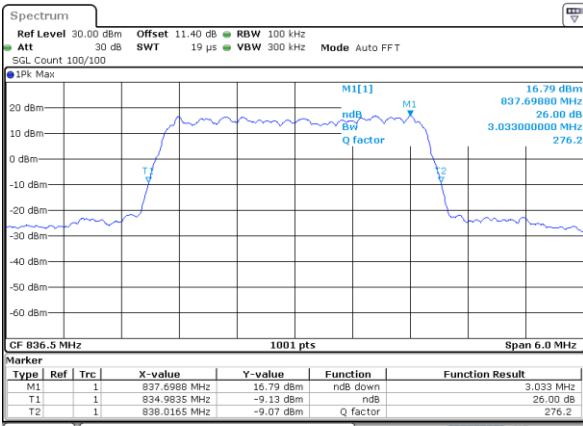
Date: 12.NOV.2021 21:15:33

Middle Channel / 1.4MHz / 16QAM



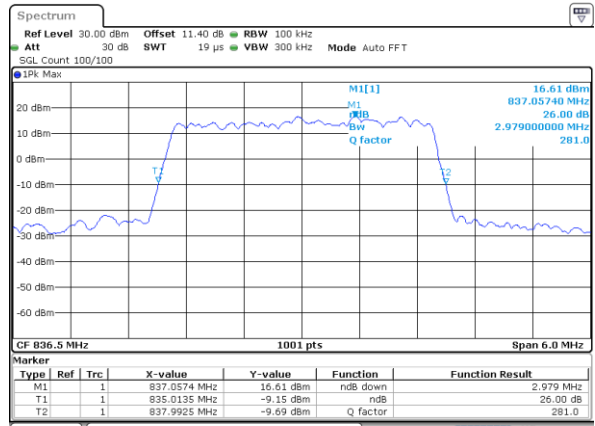
Date: 12.NOV.2021 21:15:56

Middle Channel / 3MHz / QPSK



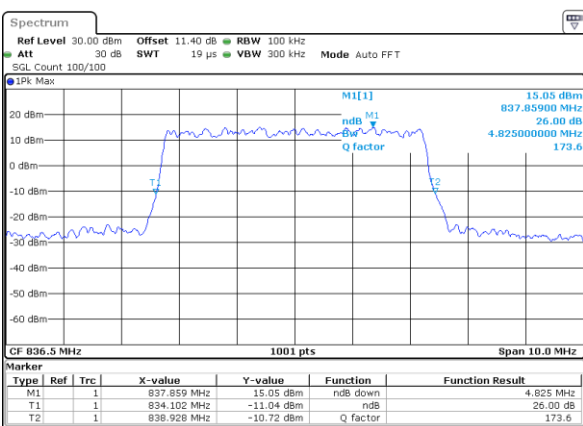
Date: 12.NOV.2021 21:25:51

Middle Channel / 3MHz / 16QAM



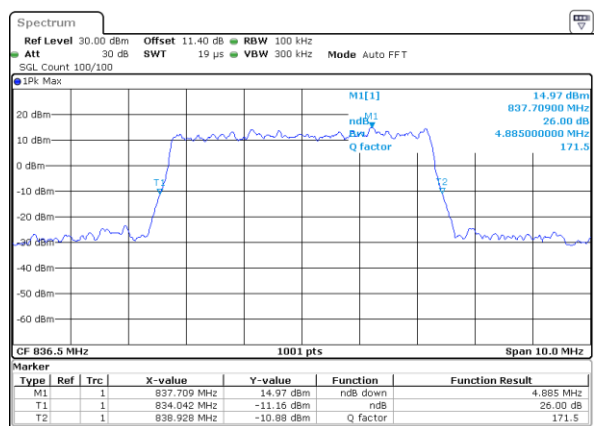
Date: 12.NOV.2021 21:26:14

Middle Channel / 5MHz / QPSK



Date: 12.NOV.2021 21:36:10

Middle Channel / 5MHz / 16QAM

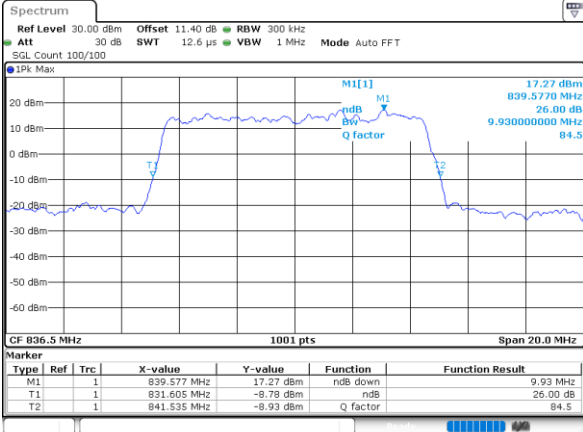


Date: 12.NOV.2021 21:36:33



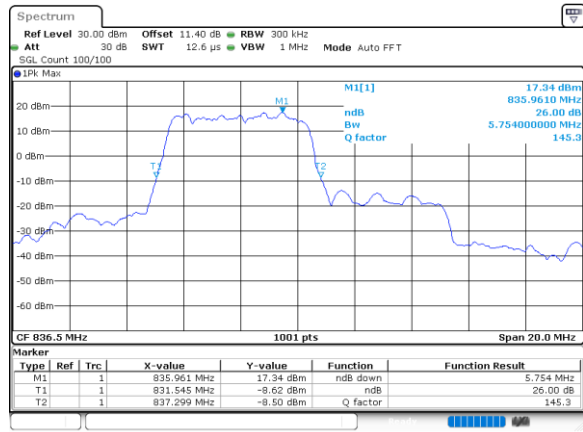
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 12.NOV.2021 21:45:15

Middle Channel / 10MHz / 16QAM



Date: 16.NOV.2021 18:31:35



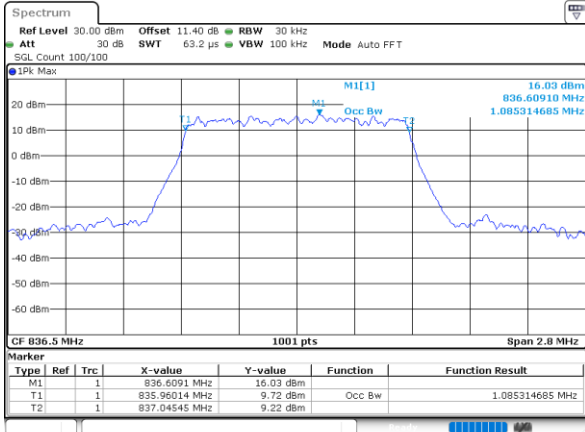
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.72	2.74	4.50	4.48	9.05	5.00	-	-	-	-



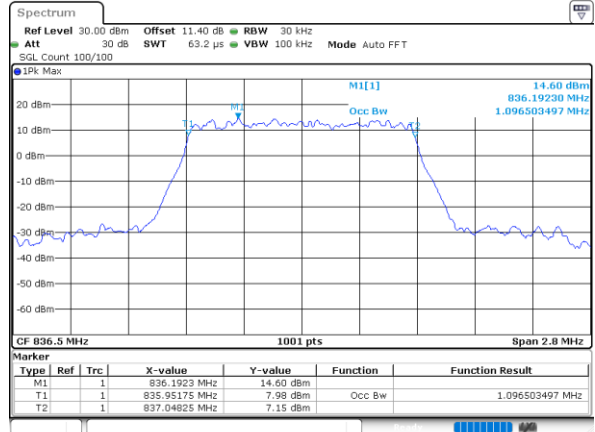
LTE Band 5

Middle Channel / 1.4MHz / QPSK



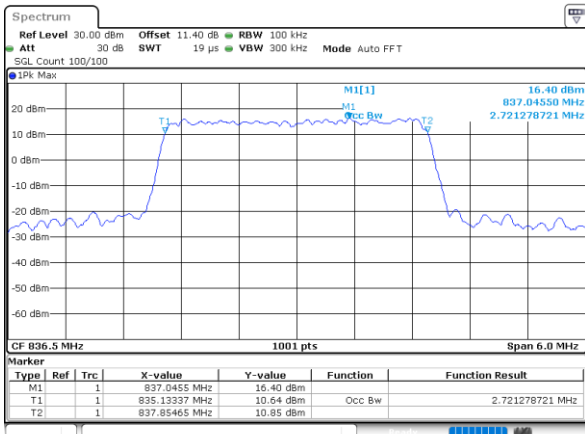
Date: 12.NOV.2021 21:14:47

Middle Channel / 1.4MHz / 16QAM



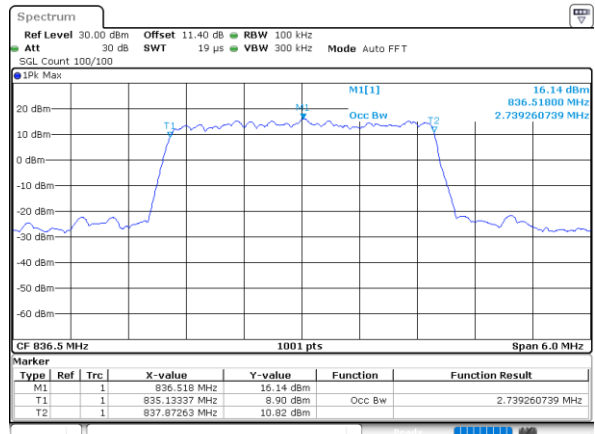
Date: 12.NOV.2021 21:15:10

Middle Channel / 3MHz / QPSK



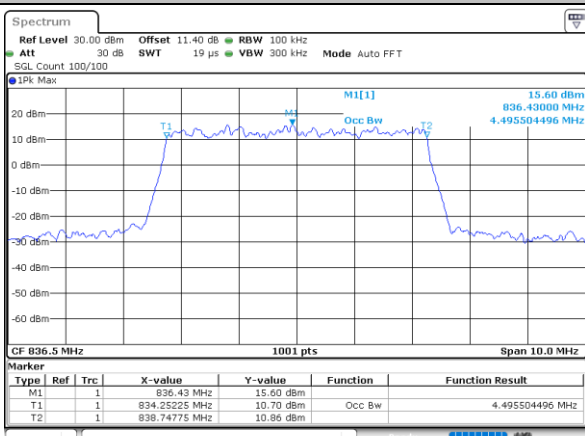
Date: 12.NOV.2021 21:25:05

Middle Channel / 3MHz / 16QAM



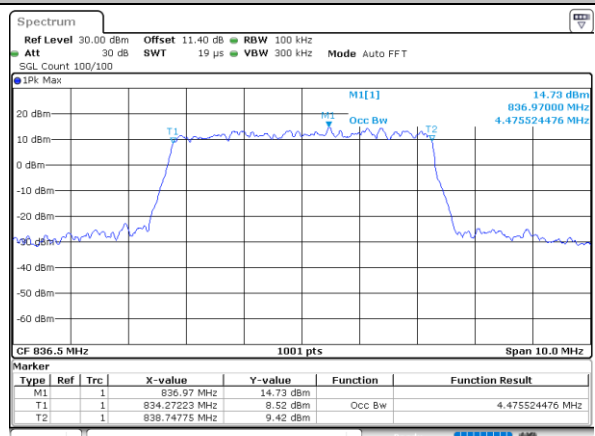
Date: 12.NOV.2021 21:25:28

Middle Channel / 5MHz / QPSK



Date: 12.NOV.2021 21:35:24

Middle Channel / 5MHz / 16QAM

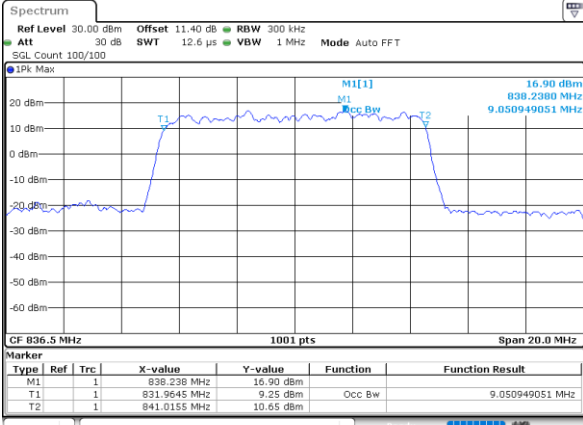


Date: 12.NOV.2021 21:35:47



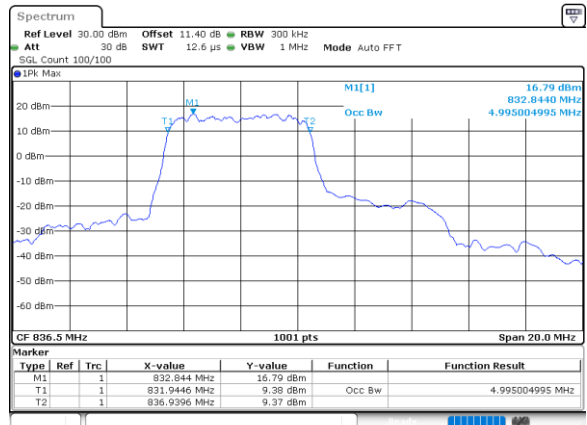
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 12.NOV.2021 21:45:00

Middle Channel / 10MHz / 16QAM



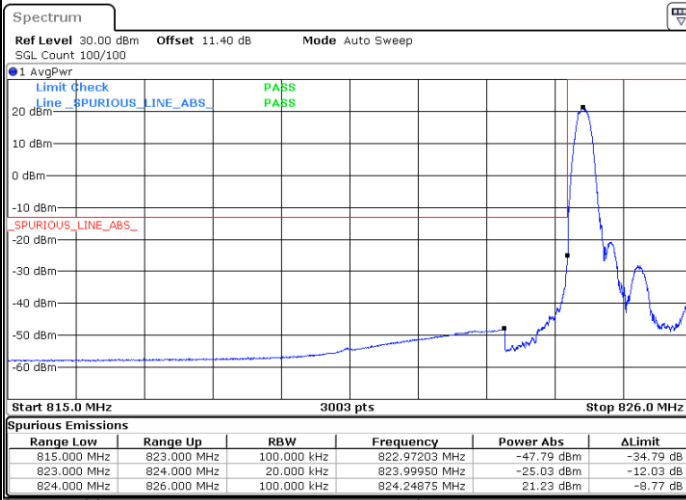
Date: 16.NOV.2021 18:31:03



Conducted Band Edge

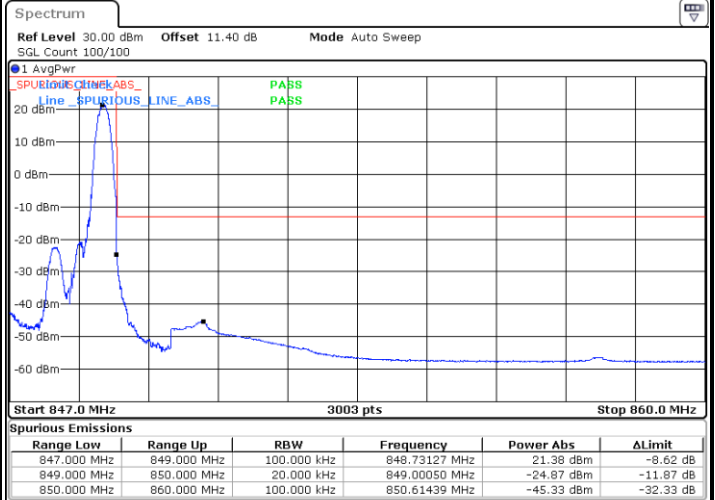
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



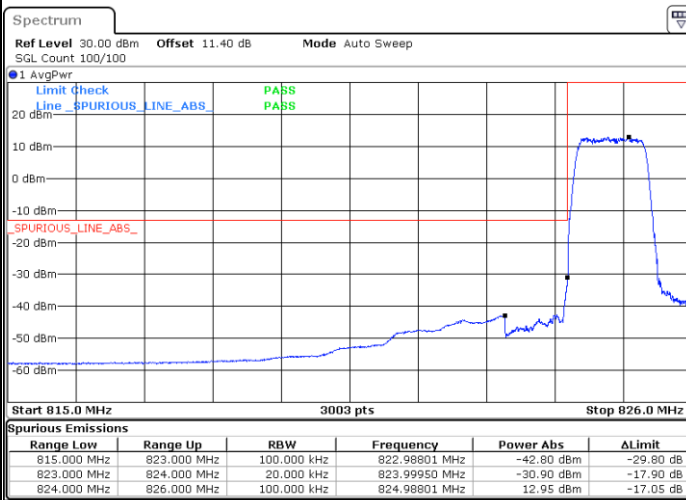
Date: 12.NOV.2021 21:11:20

Highest Band Edge / 1RB



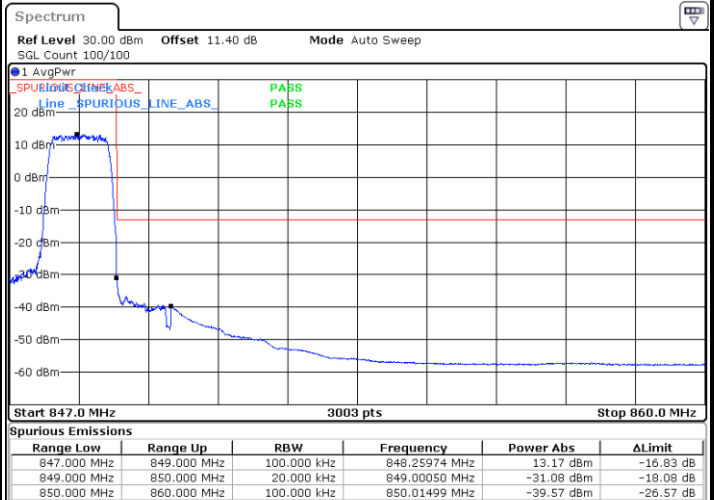
Date: 12.NOV.2021 21:19:11

Lowest Band Edge / Full RB



Date: 12.NOV.2021 21:12:43

Highest Band Edge / Full RB

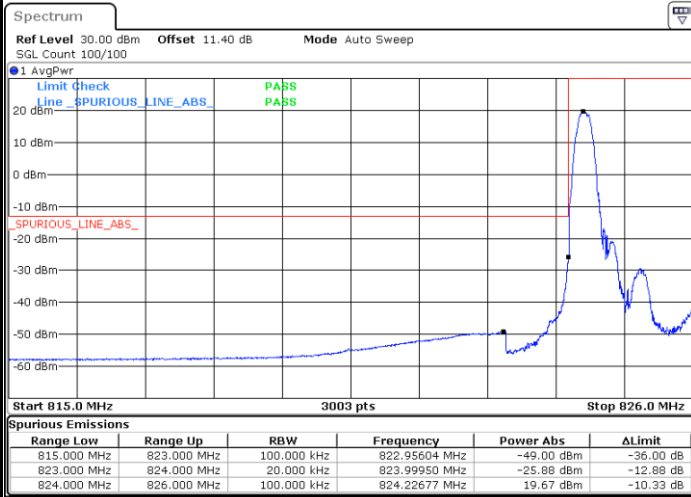


Date: 12.NOV.2021 21:17:39



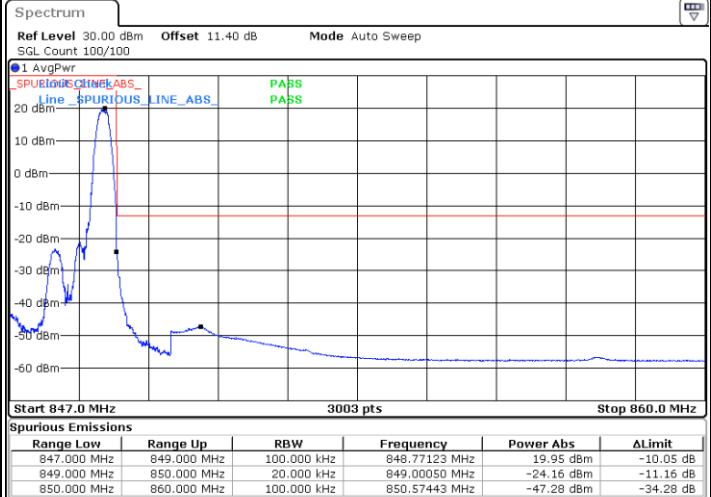
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



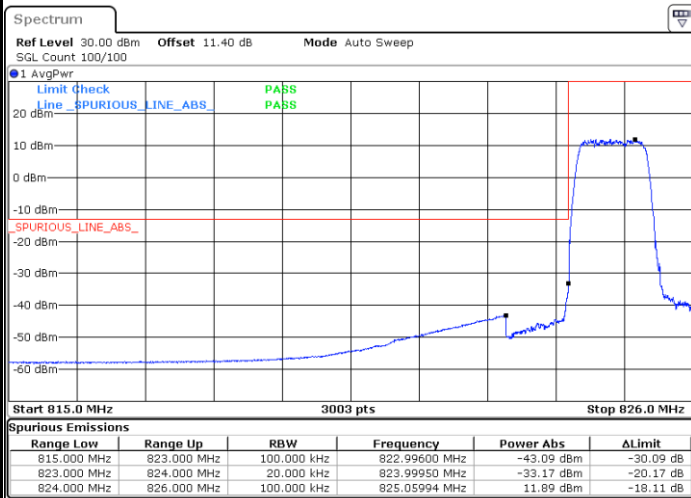
Date: 12.NOV.2021 21:12:01

Highest Band Edge / 1 RB



Date: 12.NOV.2021 21:19:56

Lowest Band Edge / Full RB



Date: 12.NOV.2021 21:13:25

Highest Band Edge / Full RB

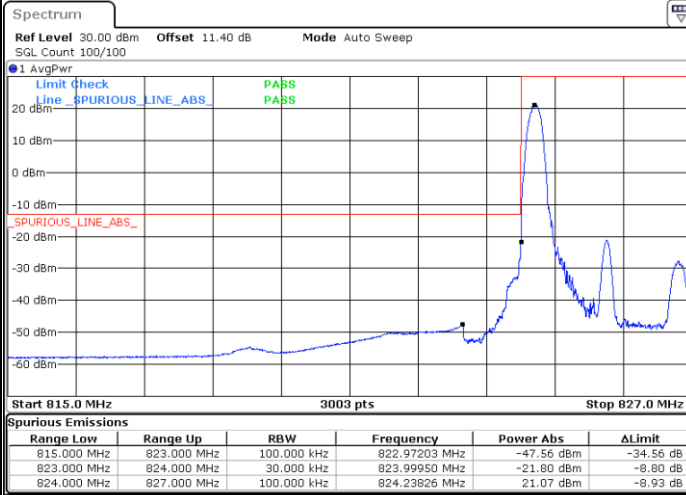


Date: 12.NOV.2021 21:18:25



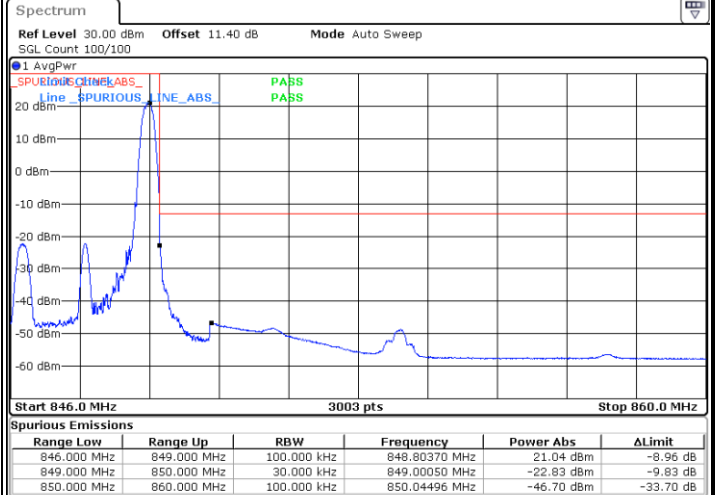
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



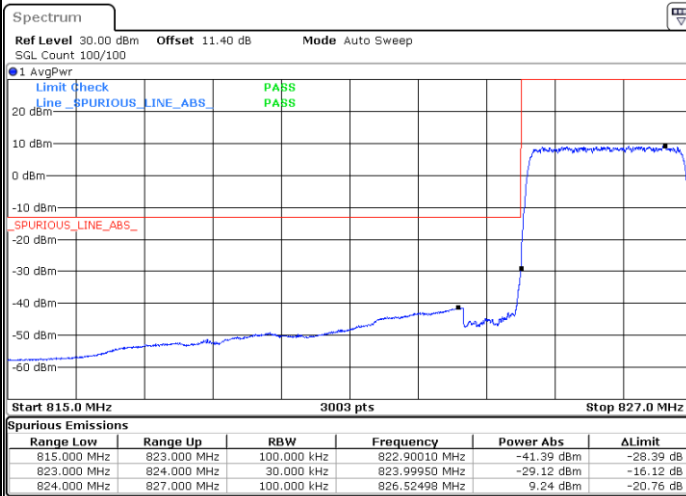
Date: 12.NOV.2021 21:21:37

Highest Band Edge / 1 RB



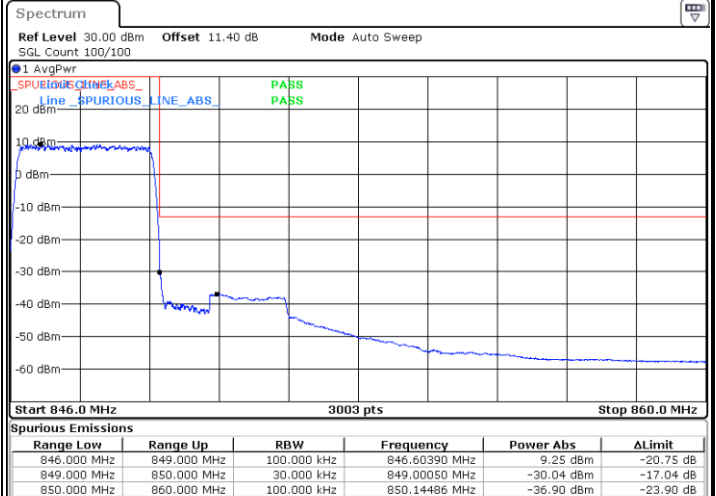
Date: 12.NOV.2021 21:27:58

Lowest Band Edge / Full RB



Date: 12.NOV.2021 21:23:01

Highest Band Edge / Full RB

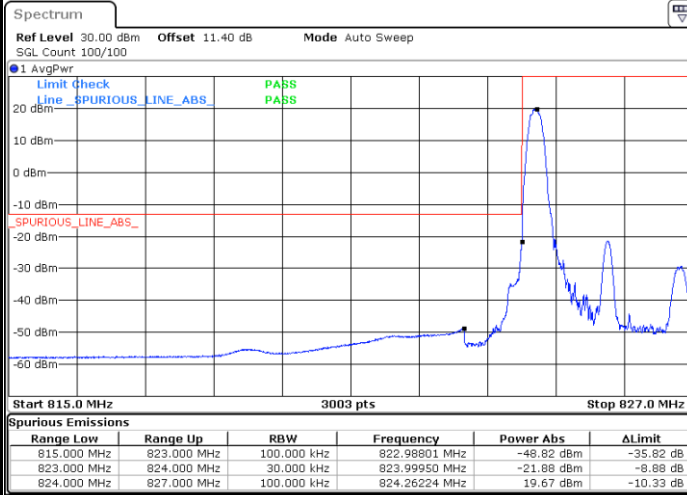


Date: 12.NOV.2021 21:29:29



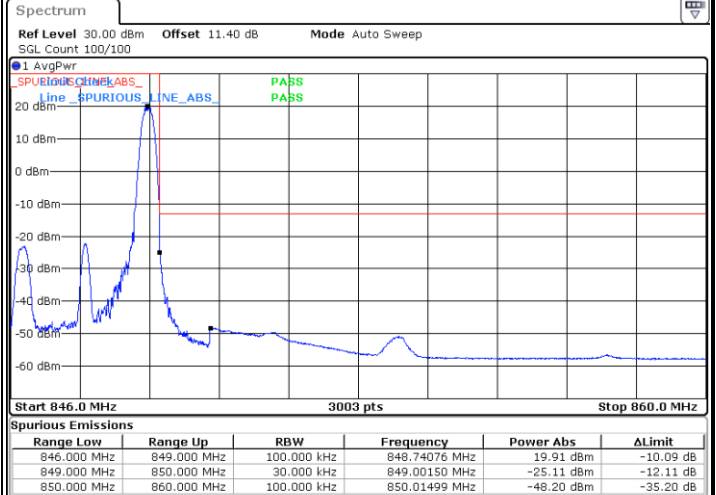
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



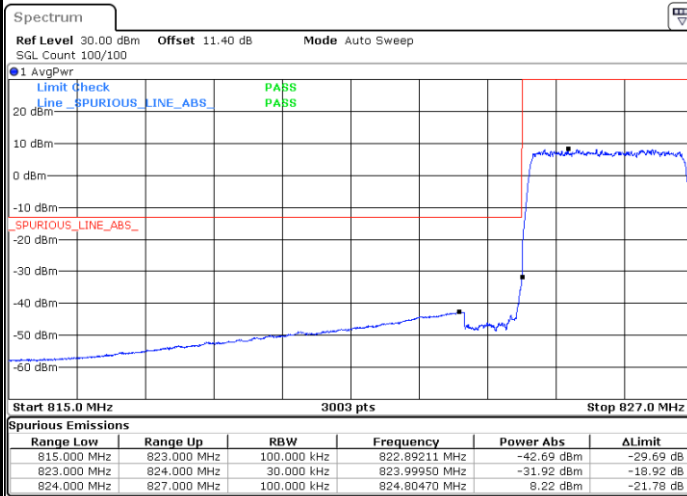
Date: 12.NOV.2021 21:22:19

Highest Band Edge / 1 RB



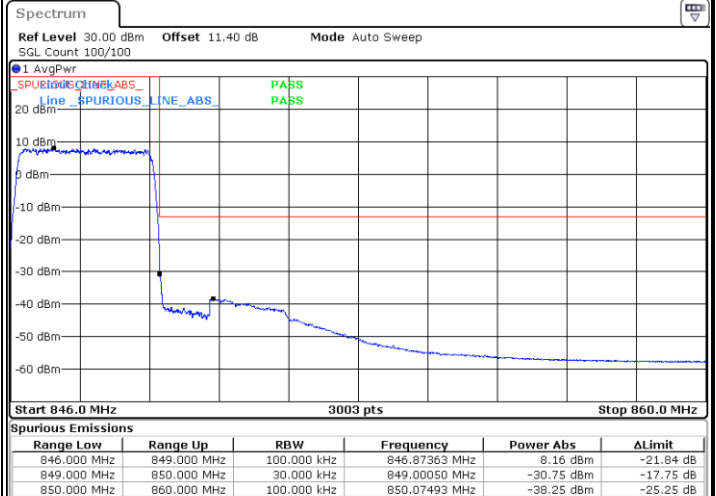
Date: 12.NOV.2021 21:28:44

Lowest Band Edge / Full RB



Date: 12.NOV.2021 21:23:43

Highest Band Edge / Full RB

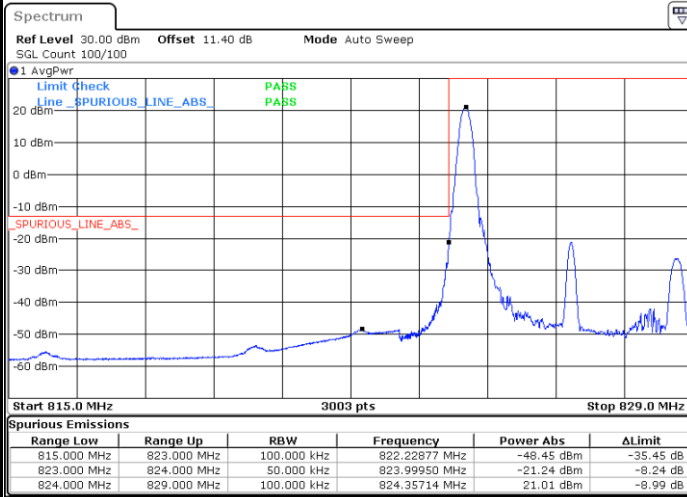


Date: 12.NOV.2021 21:30:15



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



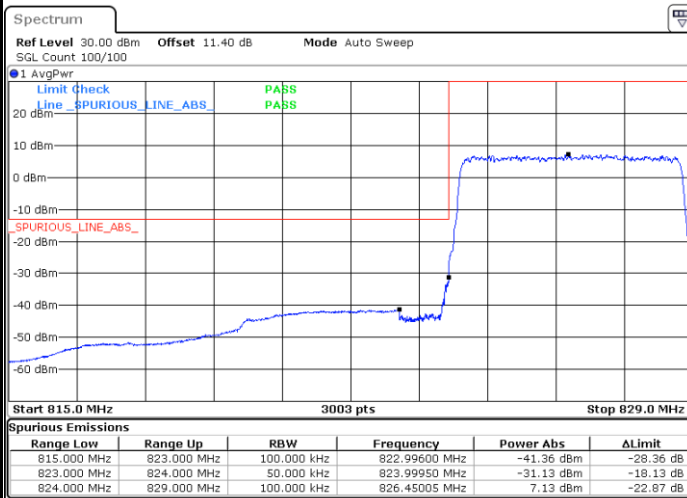
Date: 12.NOV.2021 21:31:56

Highest Band Edge / 1 RB



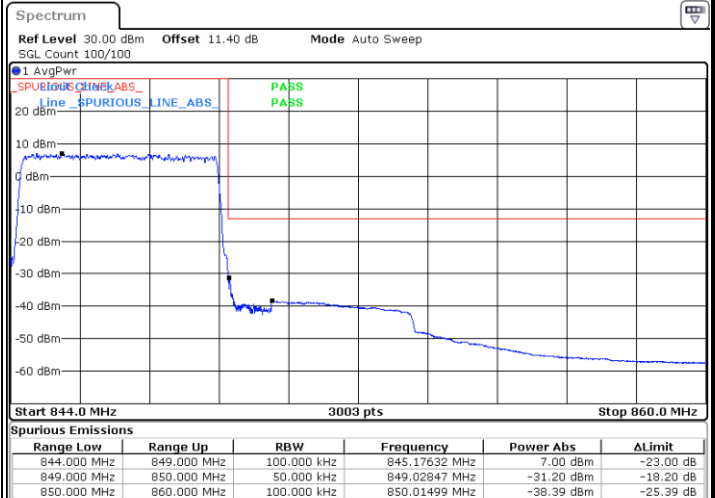
Date: 12.NOV.2021 21:38:15

Lowest Band Edge / Full RB



Date: 12.NOV.2021 21:33:20

Highest Band Edge / Full RB

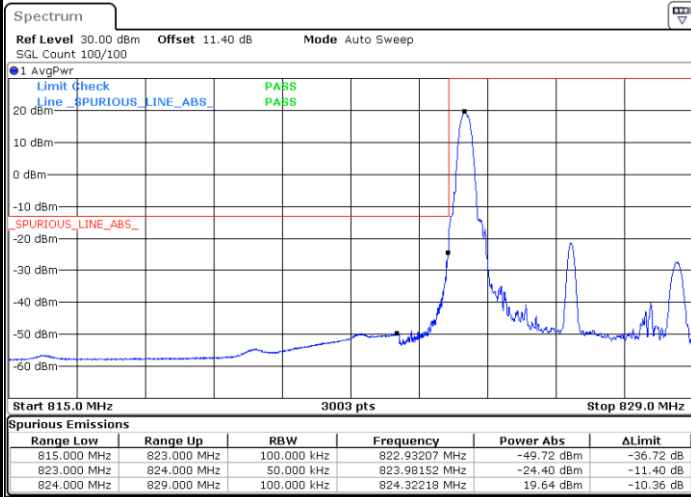


Date: 12.NOV.2021 21:39:47



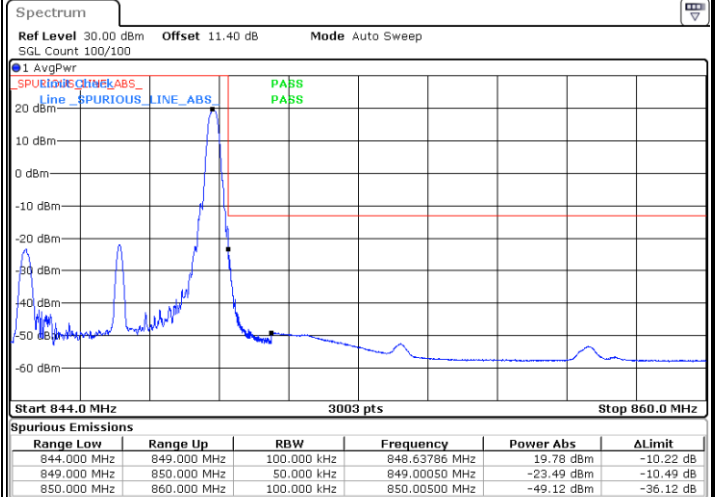
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



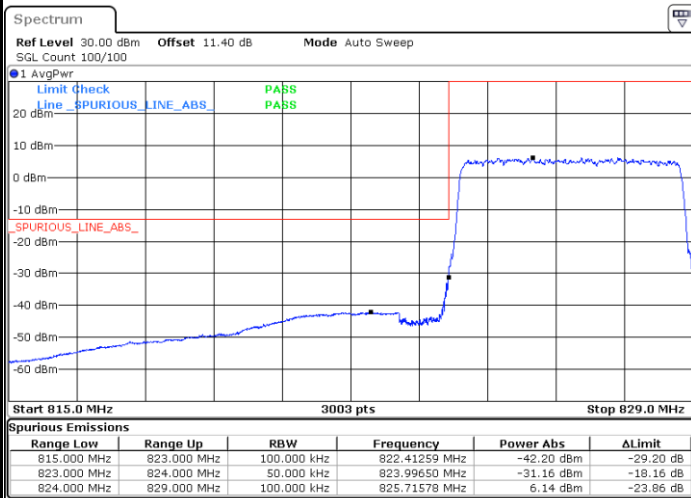
Date: 12.NOV.2021 21:32:38

Highest Band Edge / 1 RB



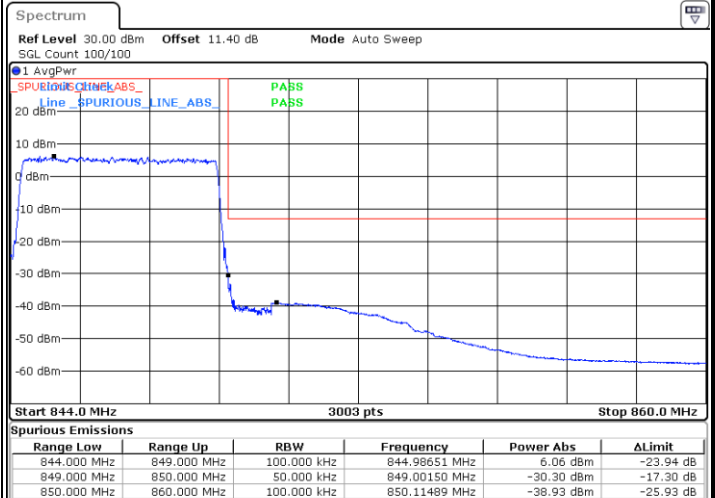
Date: 12.NOV.2021 21:39:01

Lowest Band Edge / Full RB



Date: 12.NOV.2021 21:34:02

Highest Band Edge / Full RB

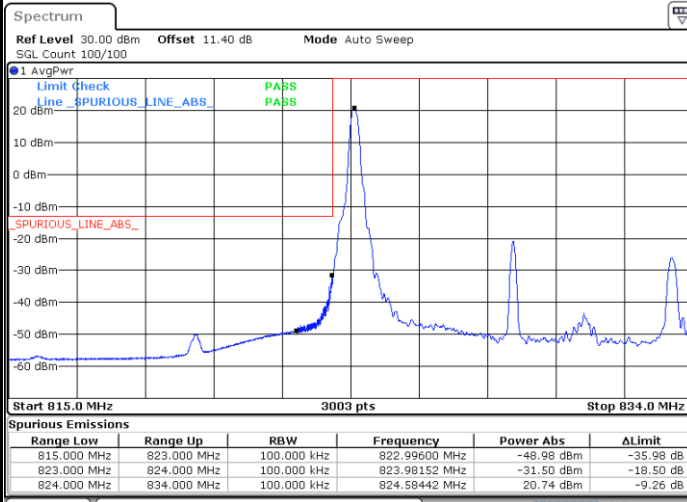


Date: 12.NOV.2021 21:40:33



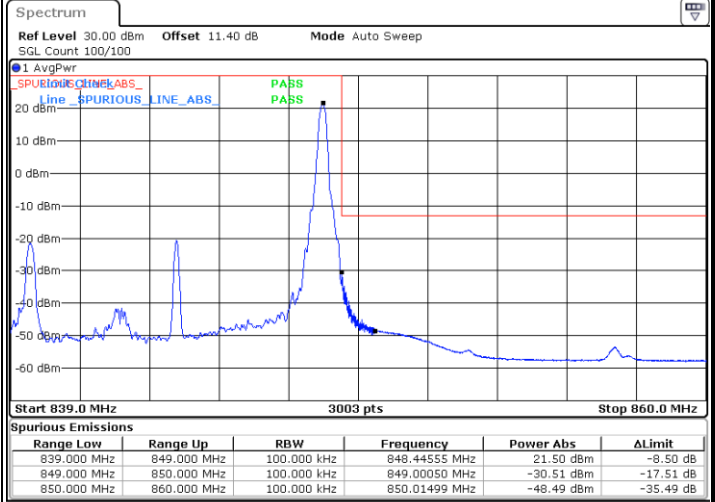
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



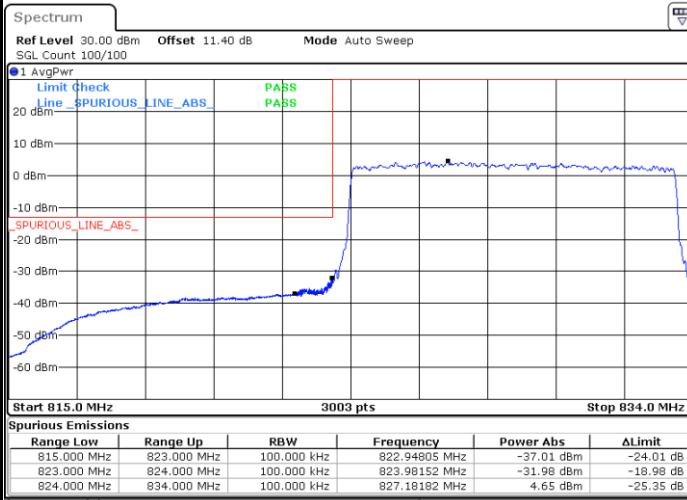
Date: 12.NOV.2021 21:42:14

Highest Band Edge / 1 RB



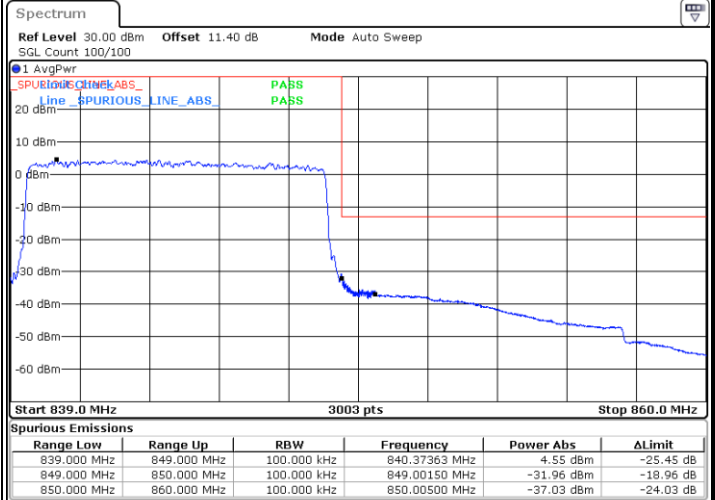
Date: 12.NOV.2021 21:46:58

Lowest Band Edge / Full RB



Date: 12.NOV.2021 21:43:38

Highest Band Edge / Full RB

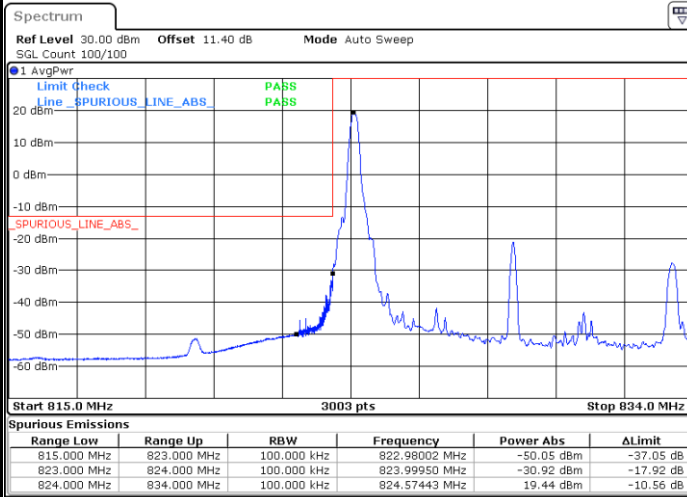


Date: 12.NOV.2021 21:48:30



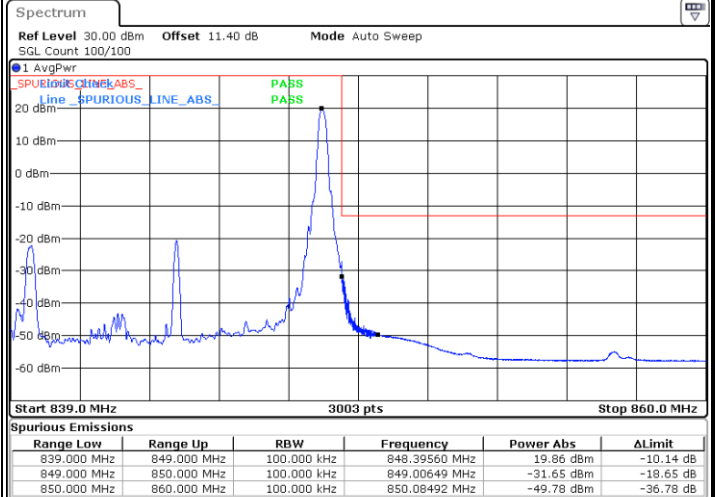
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



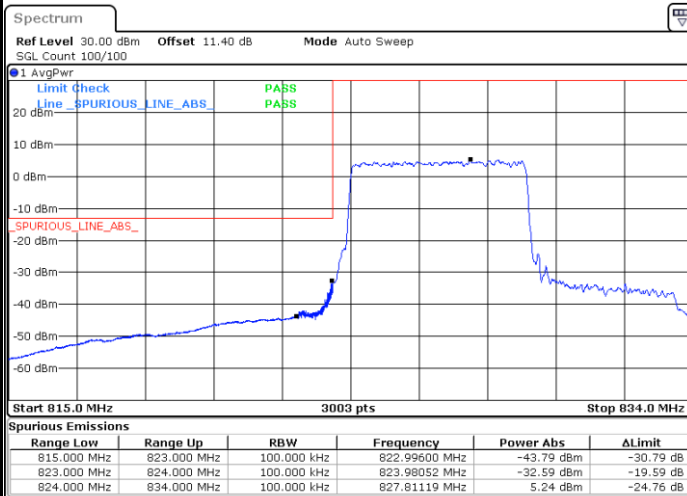
Date: 12.NOV.2021 21:42:56

Highest Band Edge / 1 RB



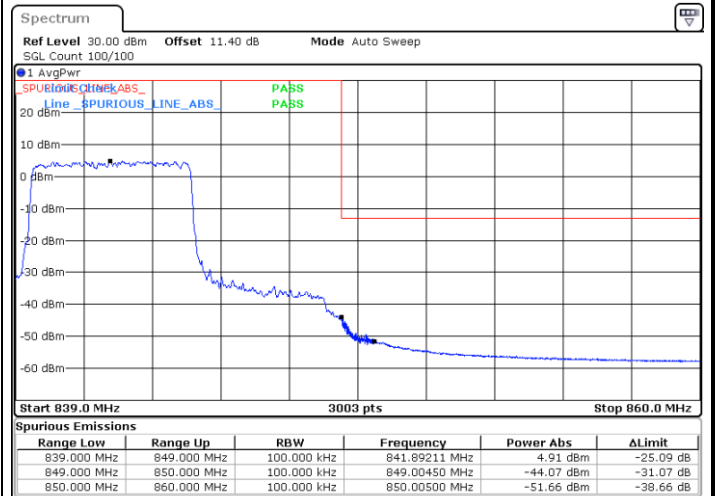
Date: 12.NOV.2021 21:47:44

Lowest Band Edge / Full RB



Date: 16.NOV.2021 18:29:04

Highest Band Edge / Full RB



Date: 16.NOV.2021 18:30:22

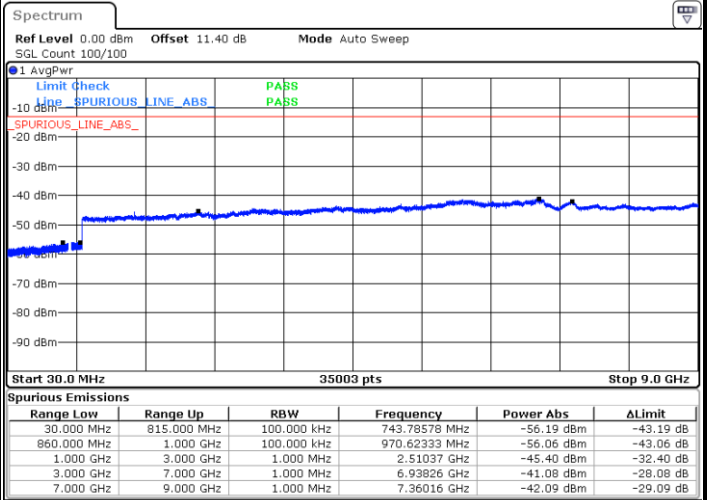
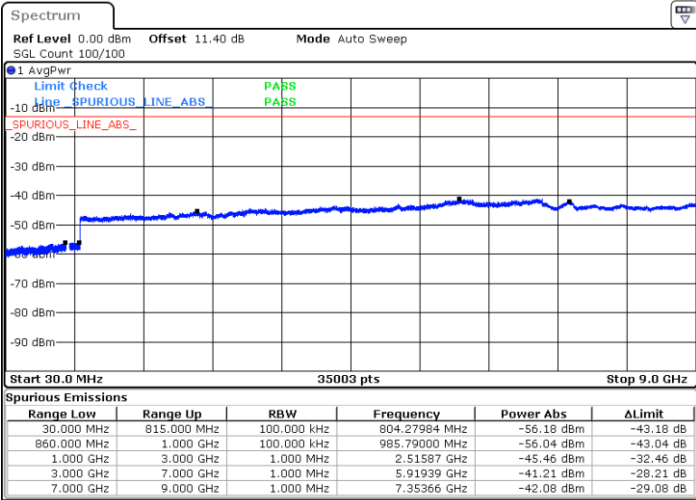


Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

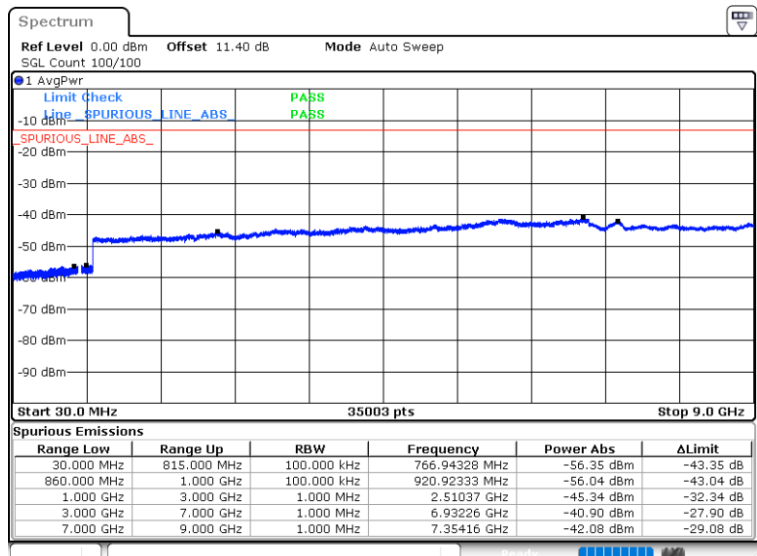
Middle Channel / QPSK



Date: 12.NOV.2021 21:14:22

Date: 12.NOV.2021 21:16:53

Highest Channel / QPSK



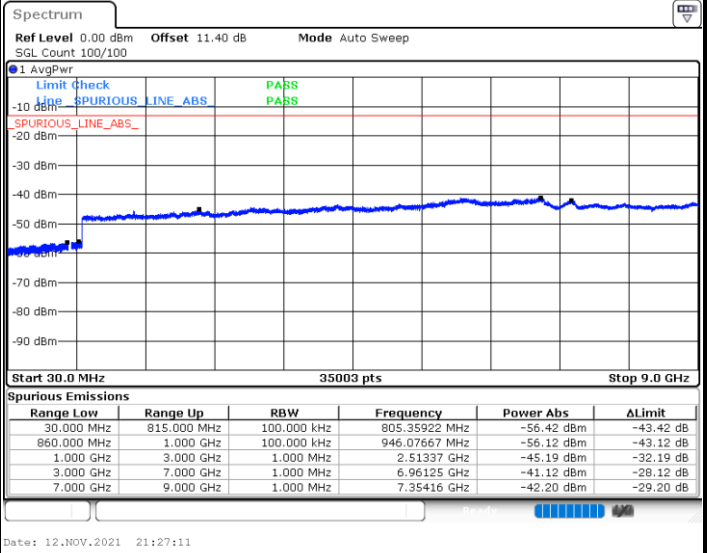
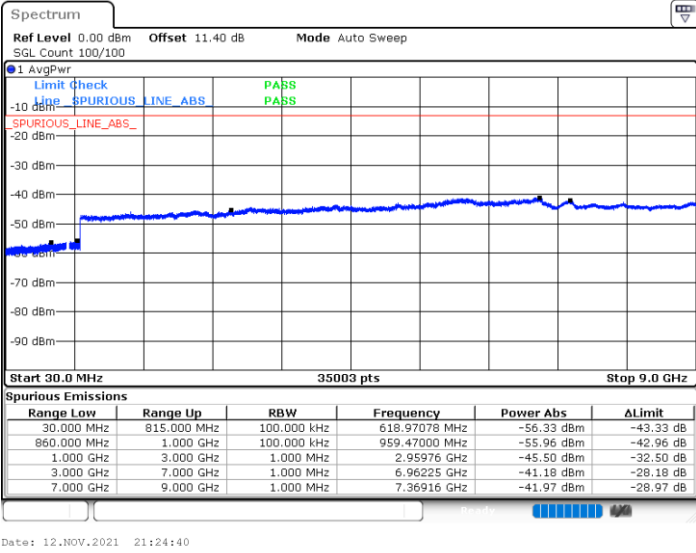
Date: 12.NOV.2021 21:20:54



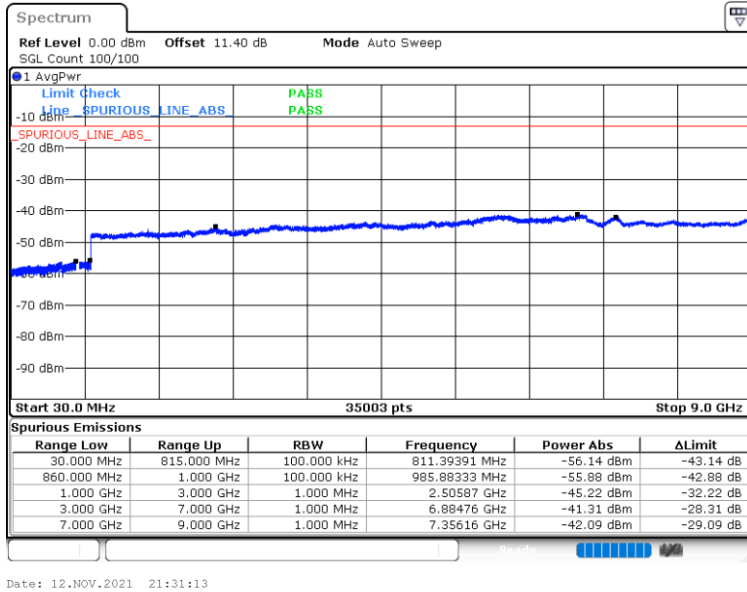
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

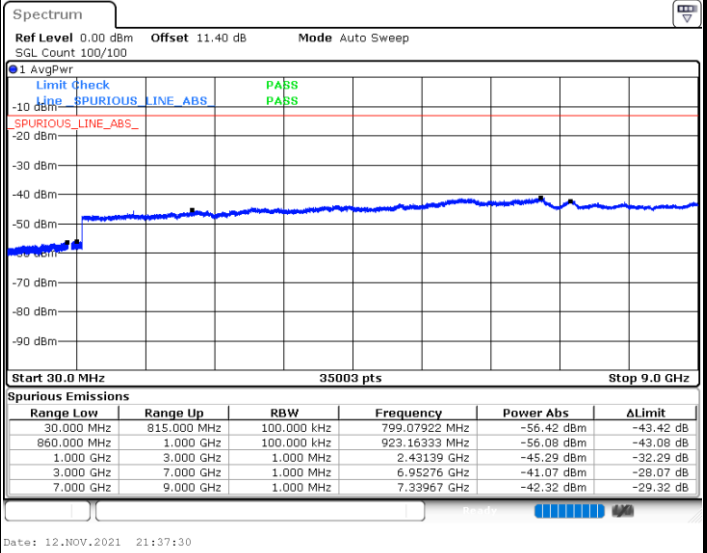
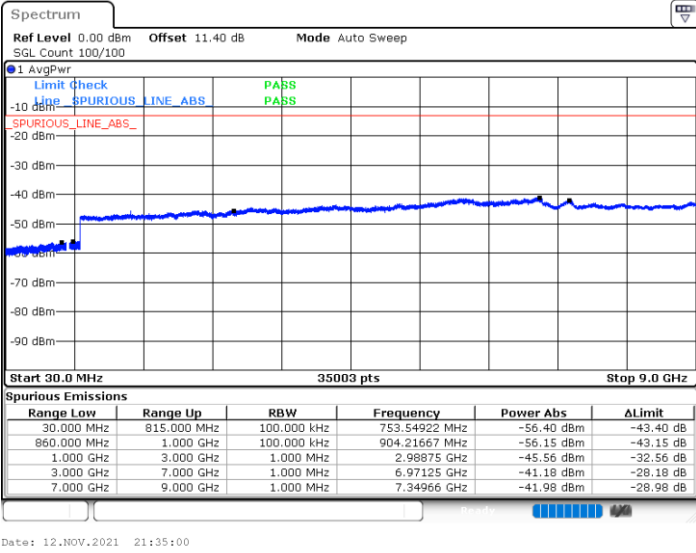




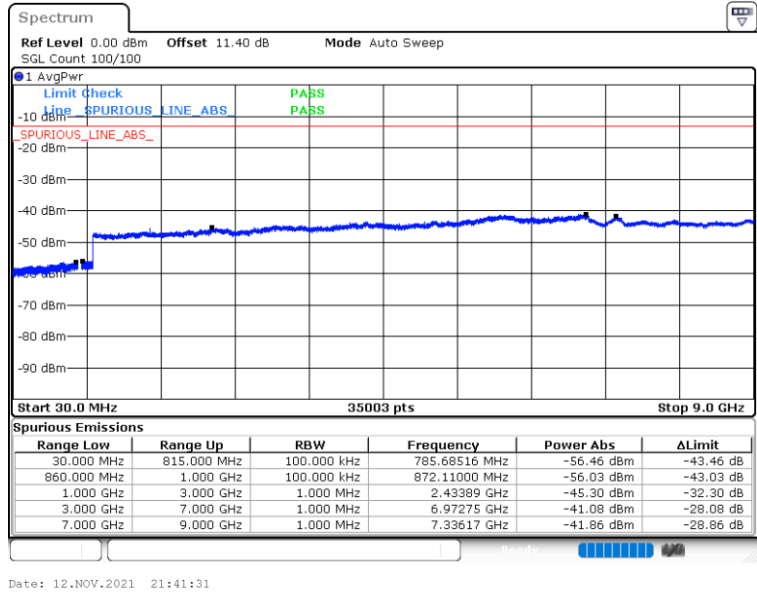
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

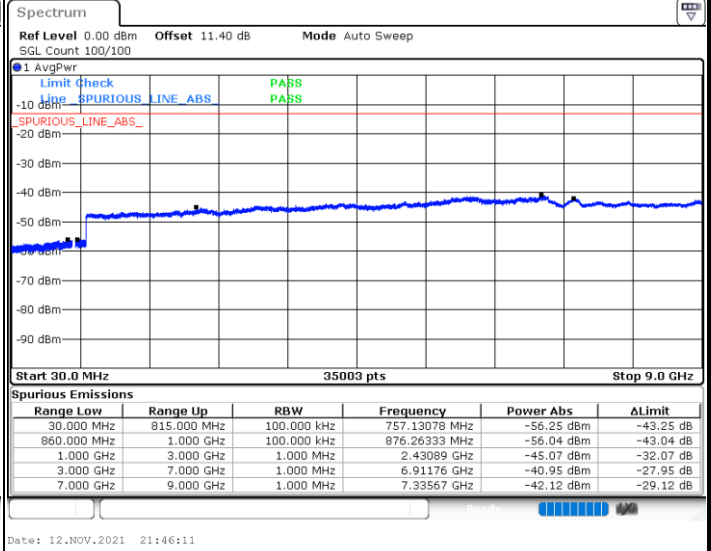
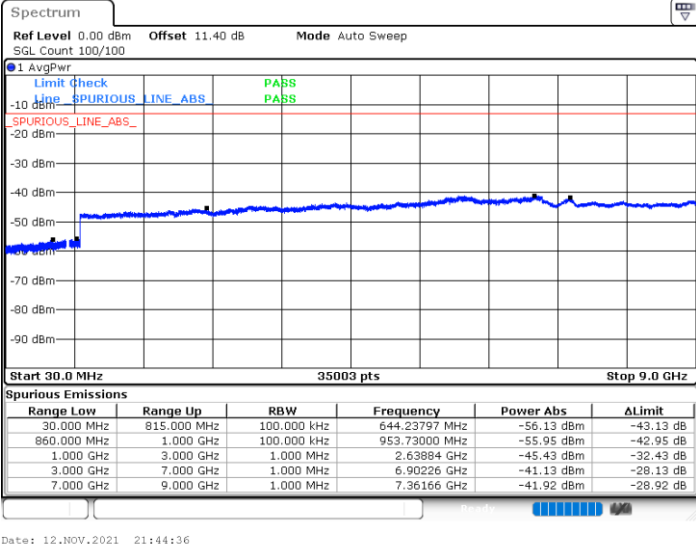




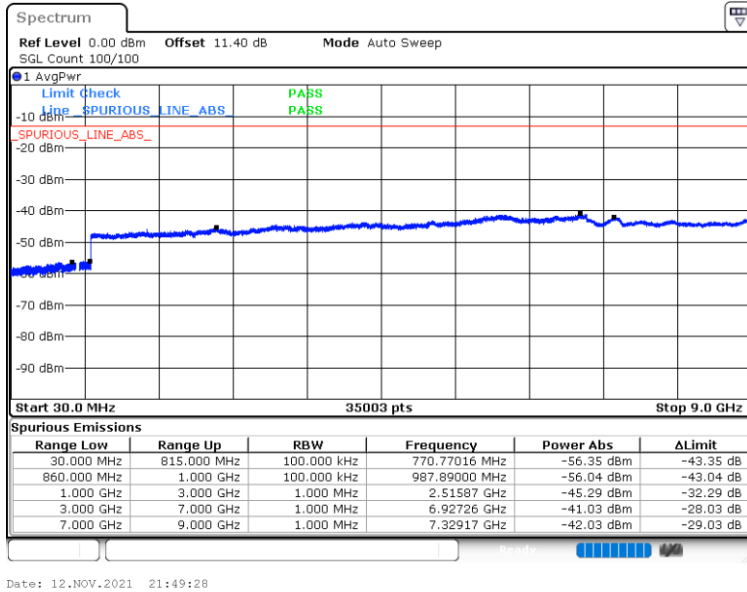
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0112	PASS
40	Normal Voltage	0.0129	
30	Normal Voltage	0.0147	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0099	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0109	
20	Normal Voltage	0.0167	
20	Battery End Point	0.0154	

Note:

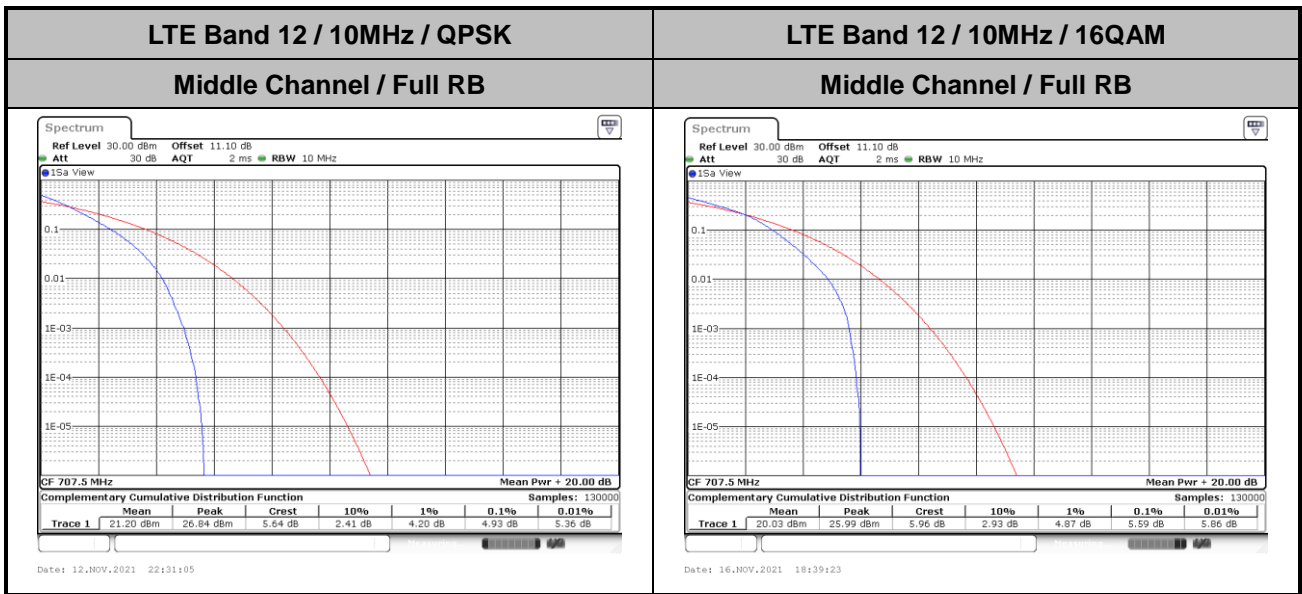
1. Normal Voltage =12 V. ; Battery End Point (BEP) =11.4 V. ; Maximum Voltage =12.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.59	-	-	PASS





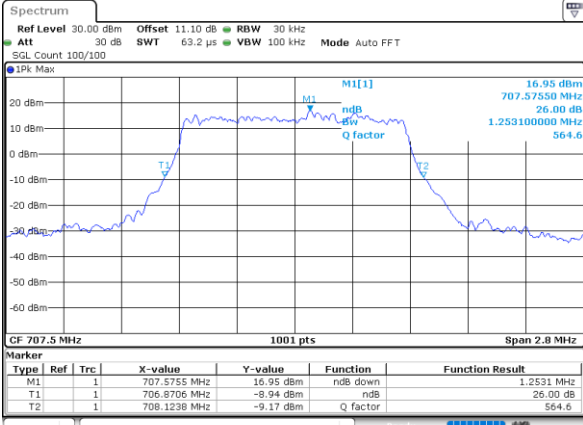
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.25	1.28	3.00	3.01	4.95	4.98	9.77	5.87	-	-	-	-



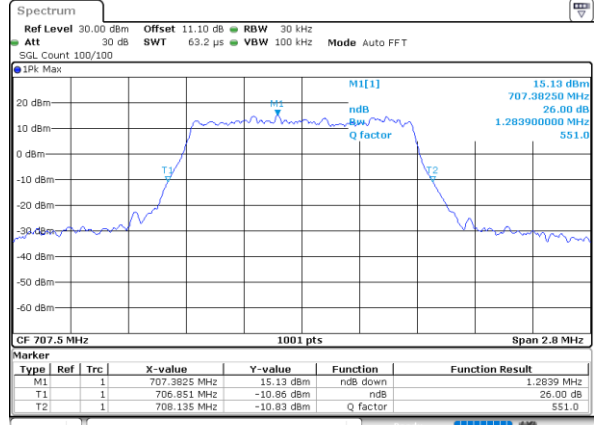
LTE Band 12

Middle Channel / 1.4MHz / QPSK



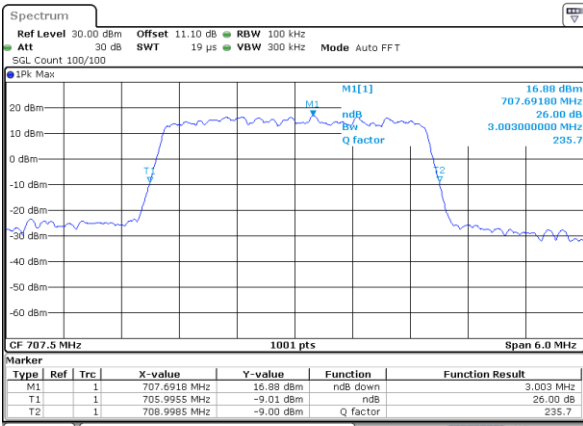
Date: 12.NOV.2021 21:58:35

Middle Channel / 1.4MHz / 16QAM



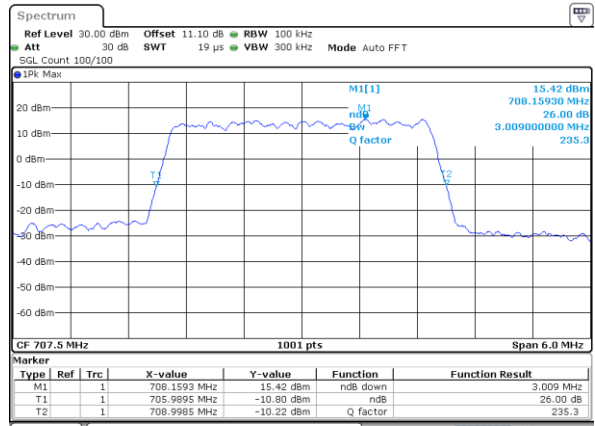
Date: 12.NOV.2021 21:58:58

Middle Channel / 3MHz / QPSK



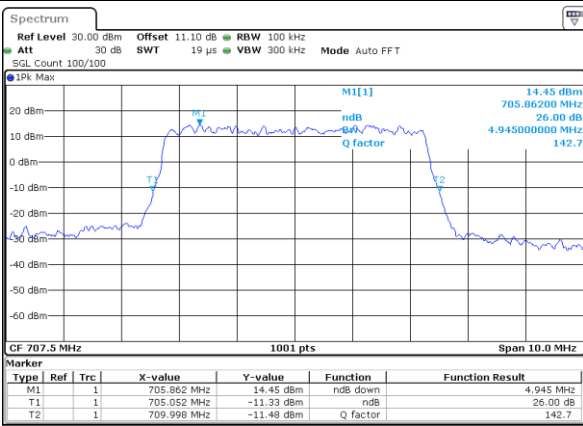
Date: 12.NOV.2021 22:08:21

Middle Channel / 3MHz / 16QAM



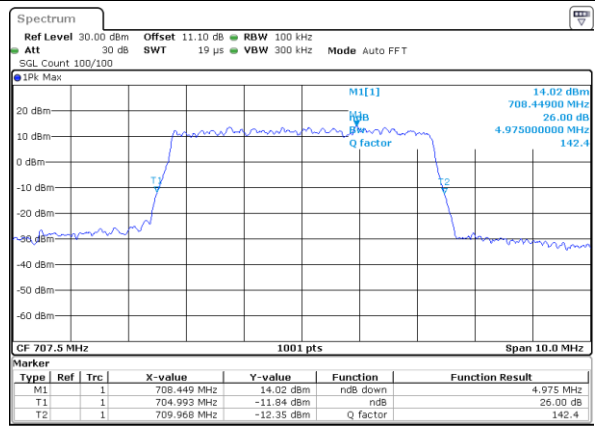
Date: 12.NOV.2021 22:08:44

Middle Channel / 5MHz / QPSK



Date: 12.NOV.2021 22:18:05

Middle Channel / 5MHz / 16QAM

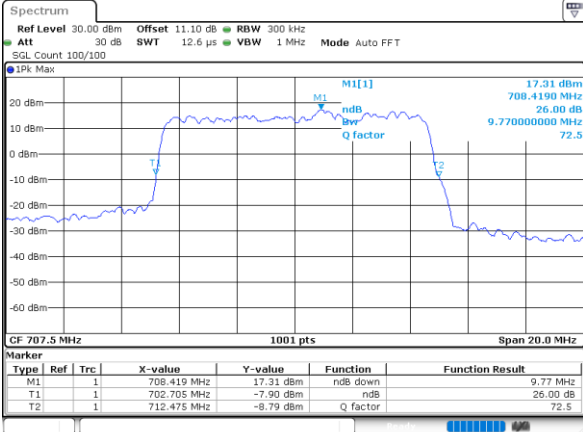


Date: 12.NOV.2021 22:18:28



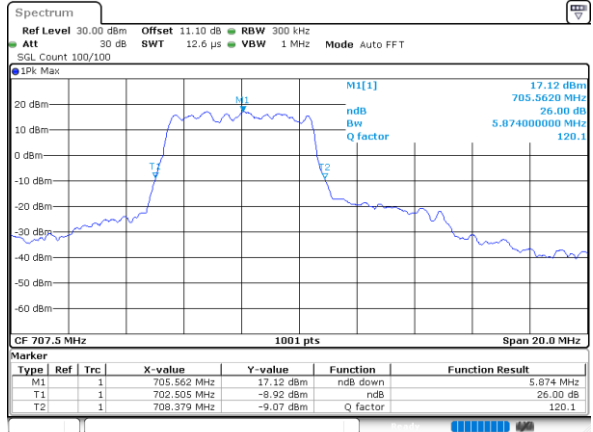
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 12.NOV.2021 22:26:43

Middle Channel / 10MHz / 16QAM



Date: 16.NOV.2021 18:38:33



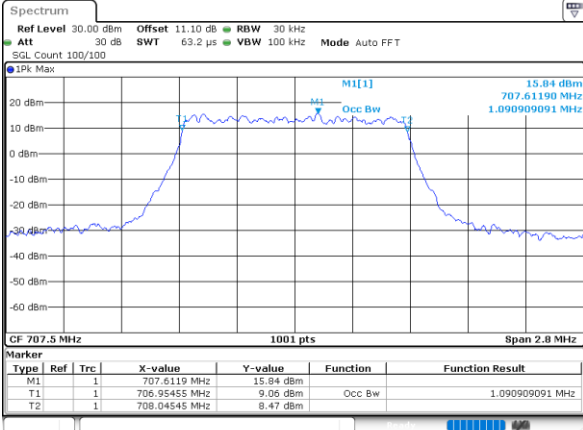
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.72	2.73	4.49	4.49	9.03	5.03	-	-	-	-



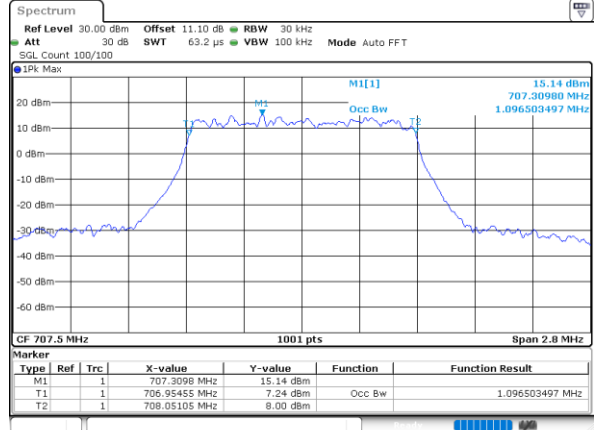
LTE Band 12

Middle Channel / 1.4MHz / QPSK



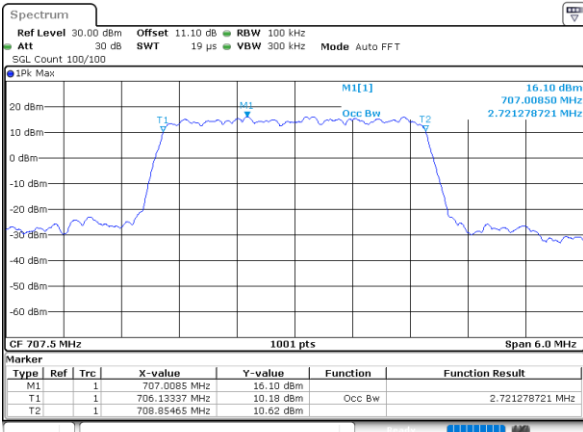
Date: 12.NOV.2021 21:58:21

Middle Channel / 1.4MHz / 16QAM



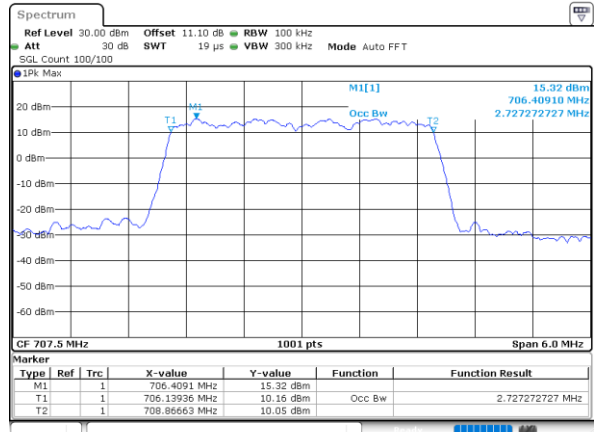
Date: 12.NOV.2021 21:57:58

Middle Channel / 3MHz / QPSK



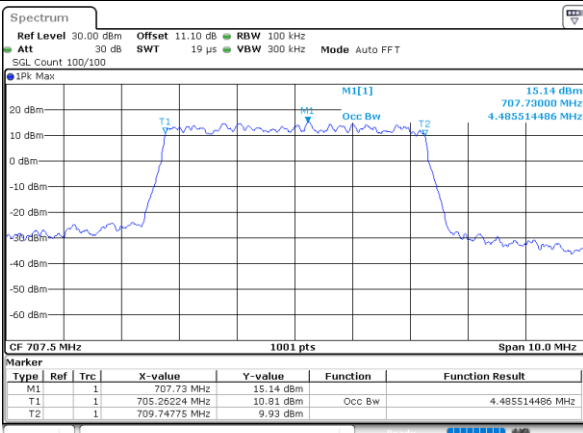
Date: 12.NOV.2021 22:08:07

Middle Channel / 3MHz / 16QAM



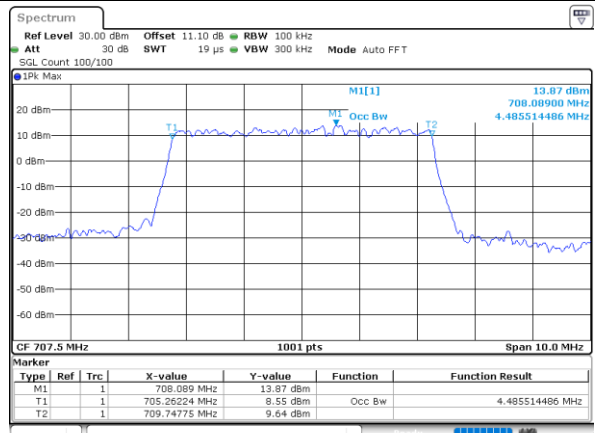
Date: 12.NOV.2021 22:07:44

Middle Channel / 5MHz / QPSK



Date: 12.NOV.2021 22:17:50

Middle Channel / 5MHz / 16QAM

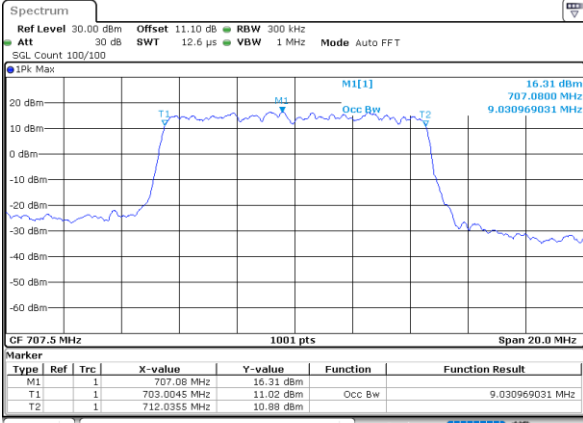


Date: 12.NOV.2021 22:17:27

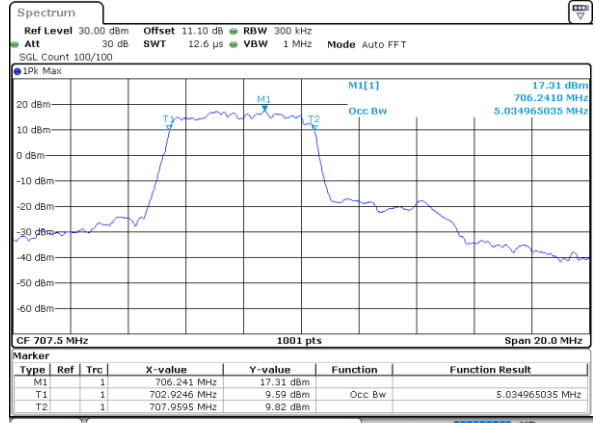


LTE Band 12

Middle Channel / 10MHz / QPSK

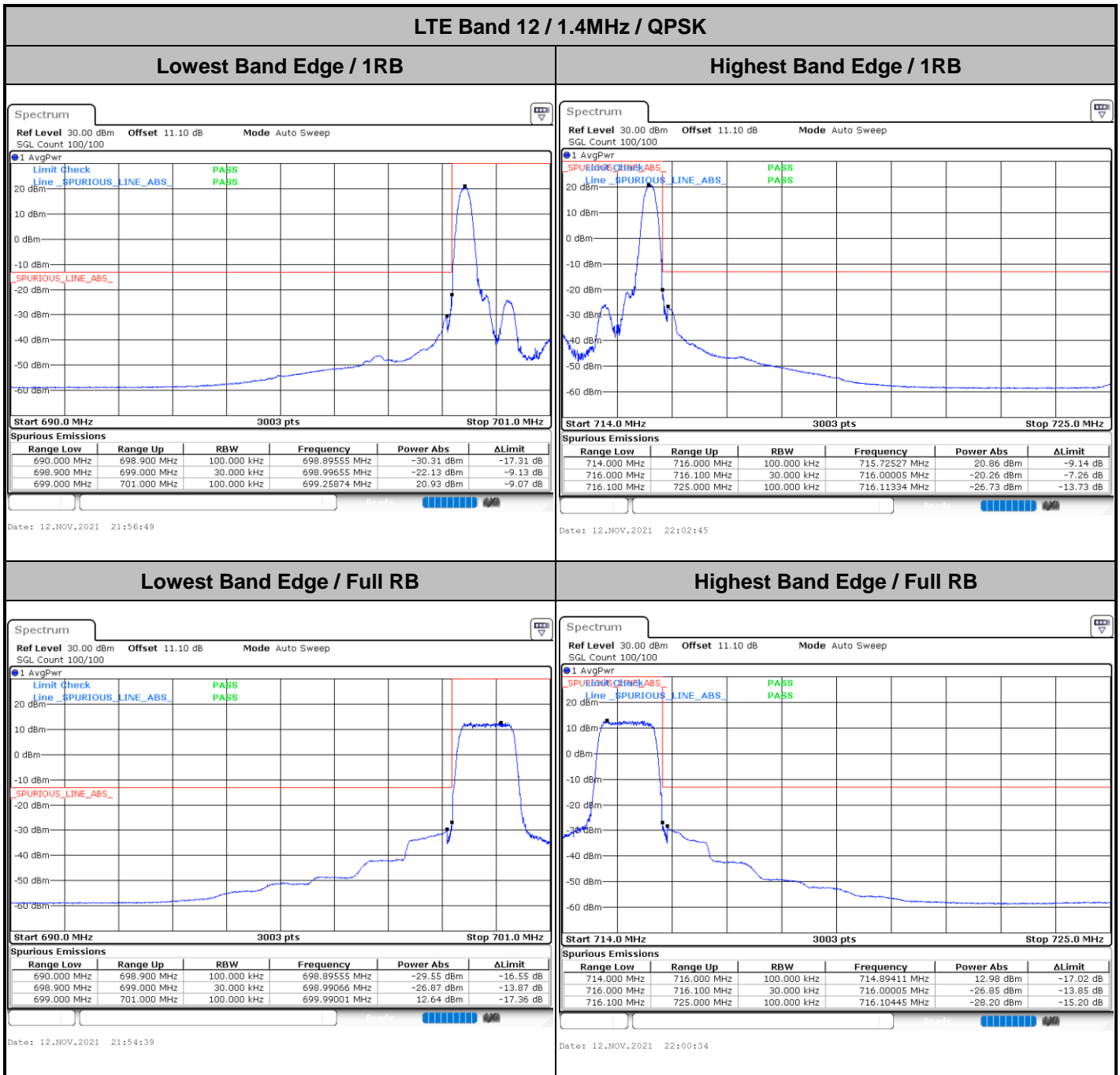


Middle Channel / 10MHz / 16QAM





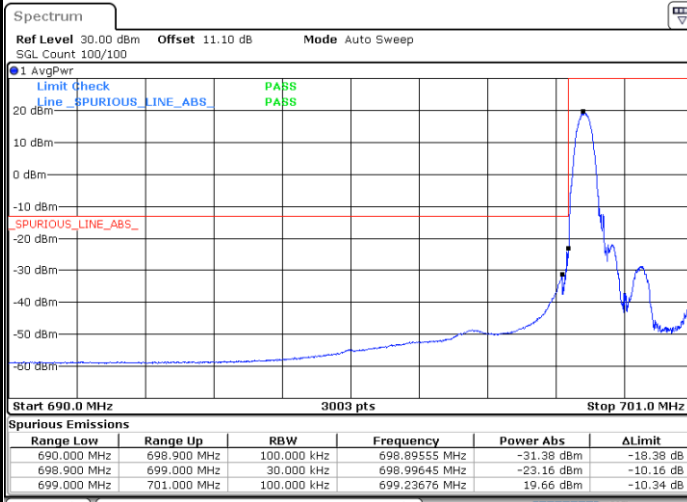
Conducted Band Edge





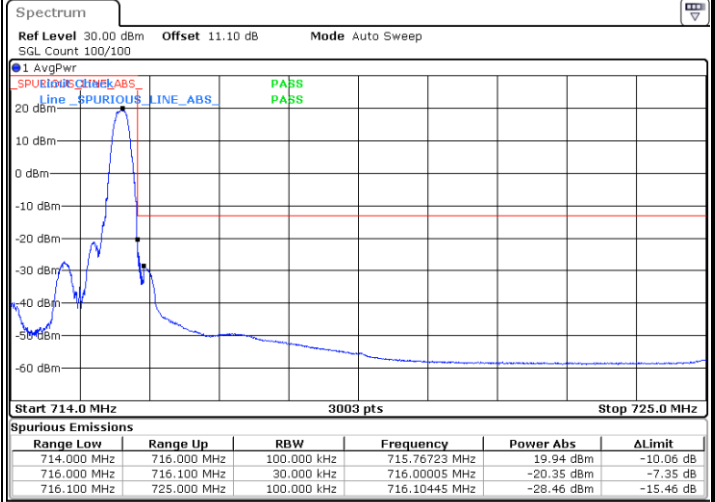
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



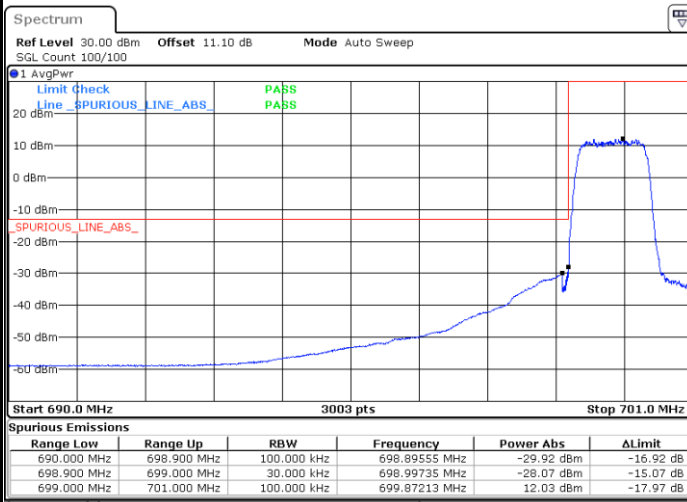
Date: 12.NOV.2021 21:56:06

Highest Band Edge / 1 RB



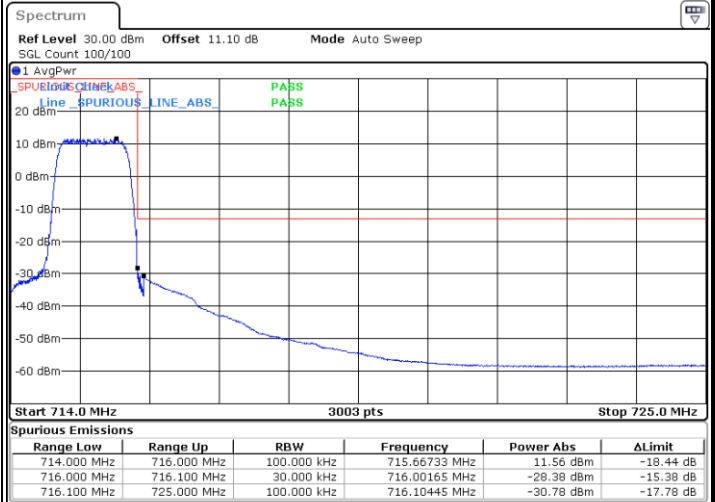
Date: 12.NOV.2021 22:02:01

Lowest Band Edge / Full RB

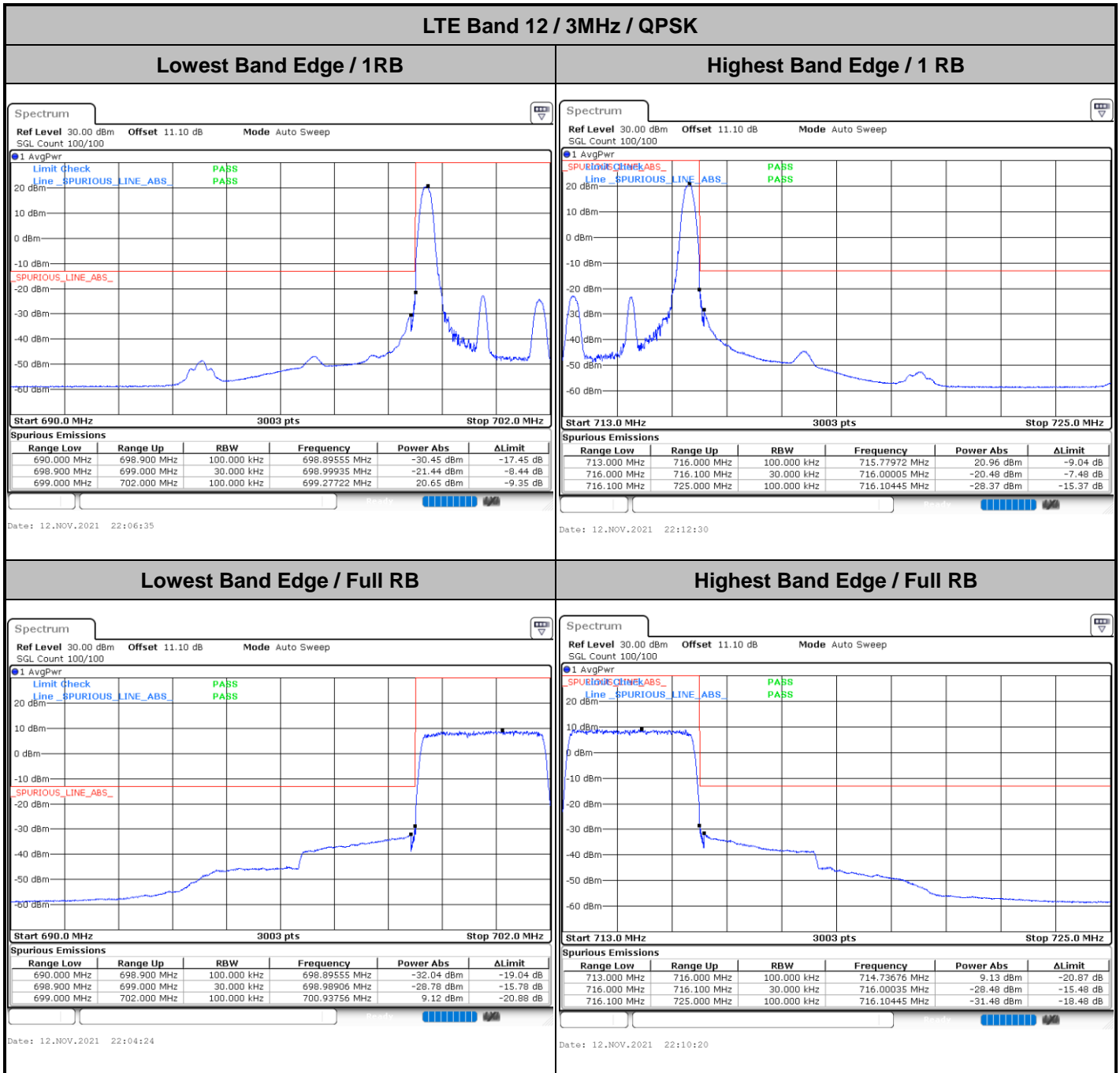


Date: 12.NOV.2021 21:55:22

Highest Band Edge / Full RB



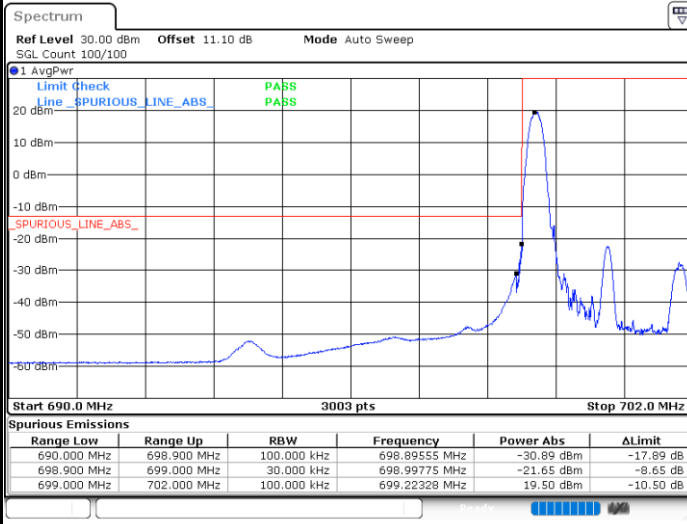
Date: 12.NOV.2021 22:01:18





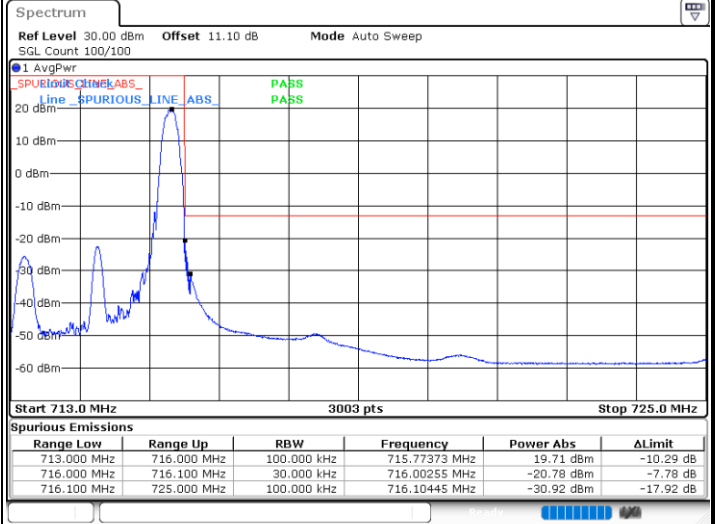
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



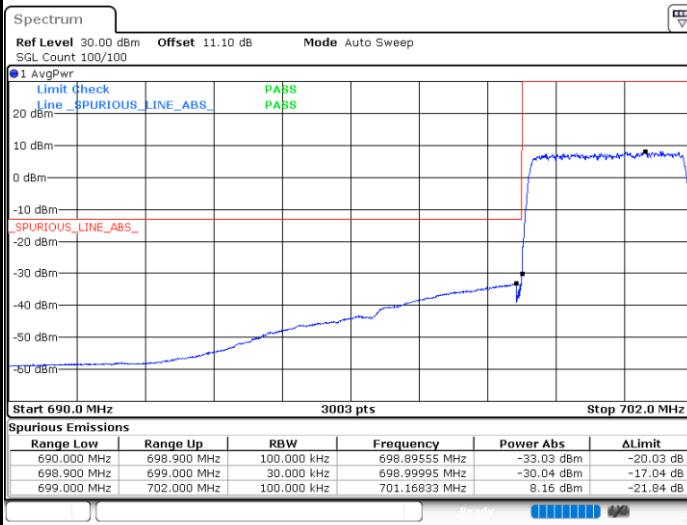
Date: 12.NOV.2021 22:05:51

Highest Band Edge / 1 RB



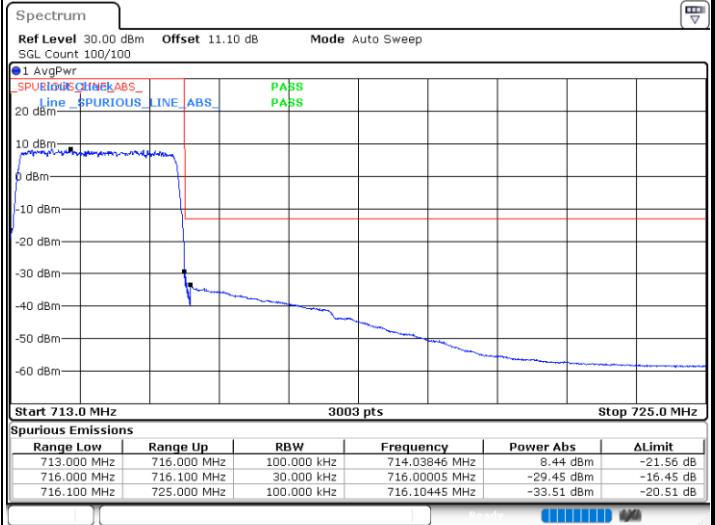
Date: 12.NOV.2021 22:11:47

Lowest Band Edge / Full RB



Date: 12.NOV.2021 22:05:07

Highest Band Edge / Full RB

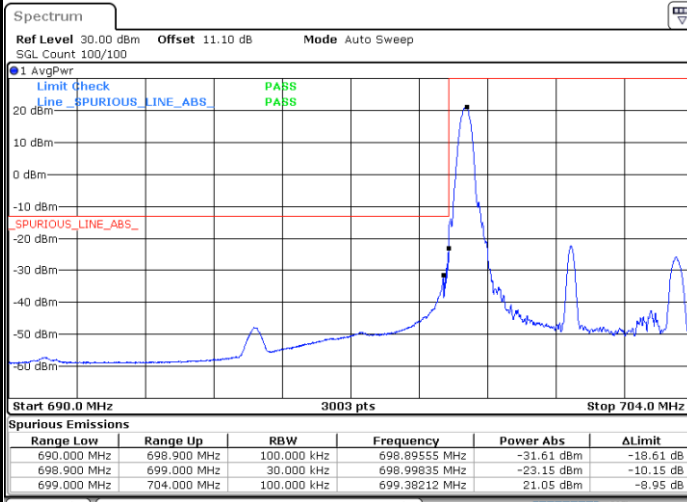


Date: 12.NOV.2021 22:11:03



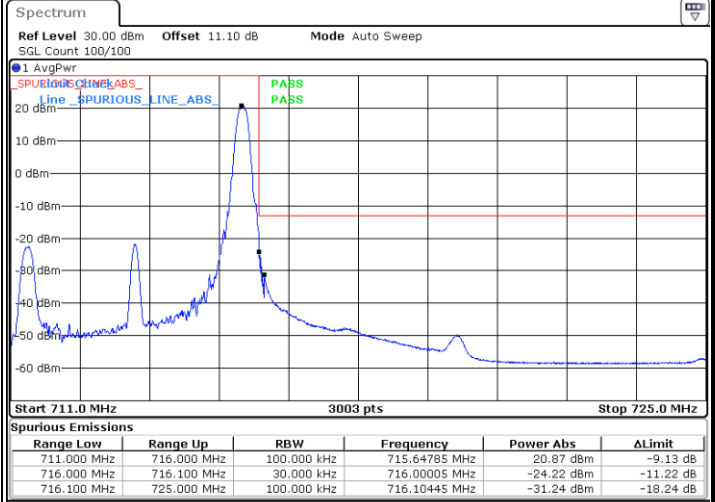
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



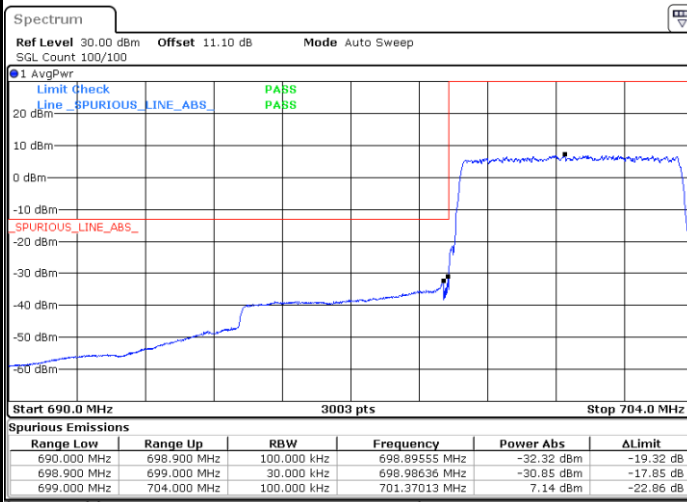
Date: 12.NOV.2021 22:16:19

Highest Band Edge / 1 RB



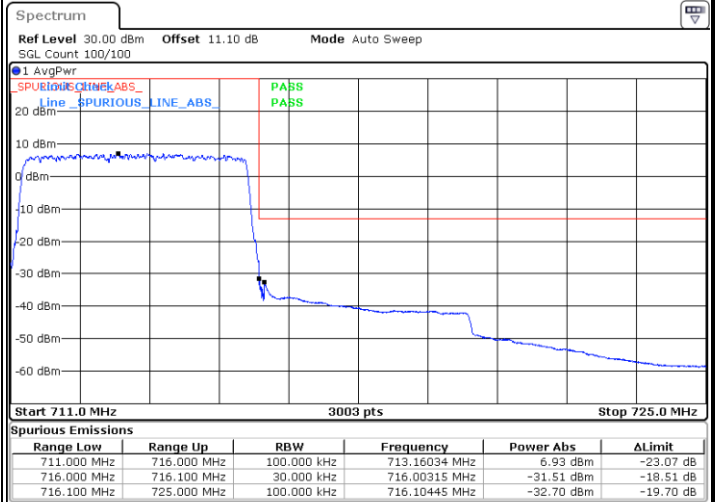
Date: 12.NOV.2021 22:21:30

Lowest Band Edge / Full RB



Date: 12.NOV.2021 22:14:08

Highest Band Edge / Full RB

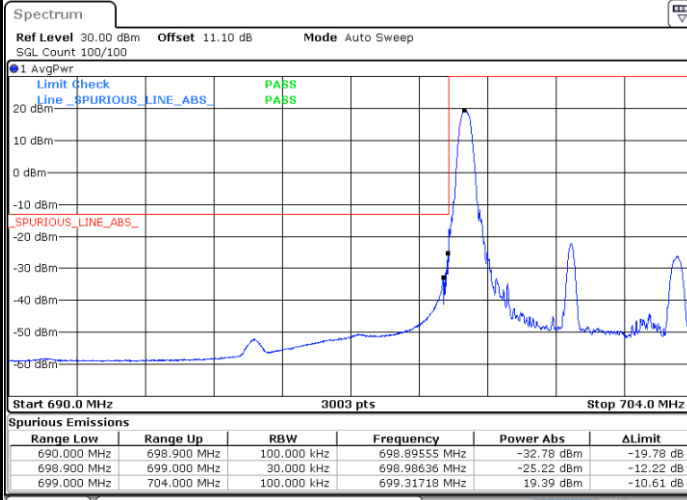


Date: 12.NOV.2021 22:20:03



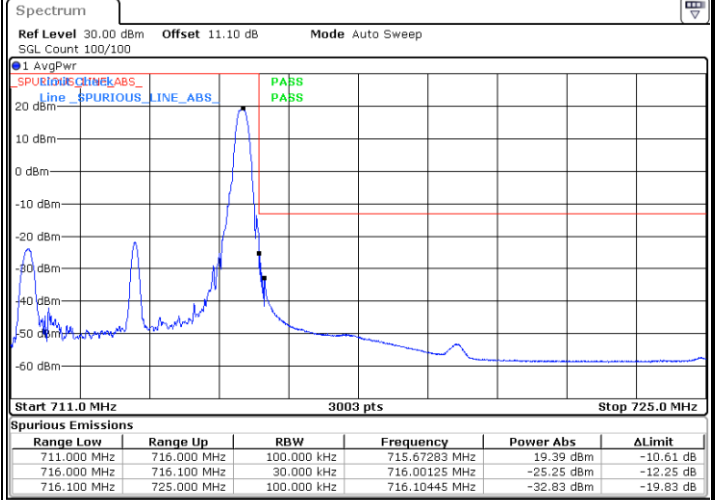
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



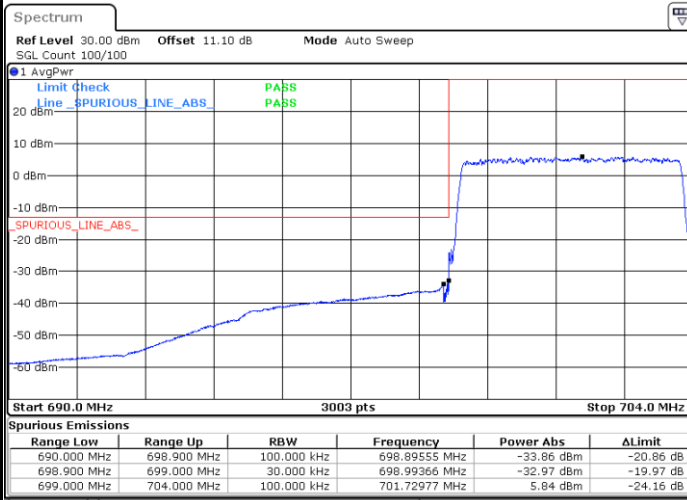
Date: 12.NOV.2021 22:15:36

Highest Band Edge / 1 RB



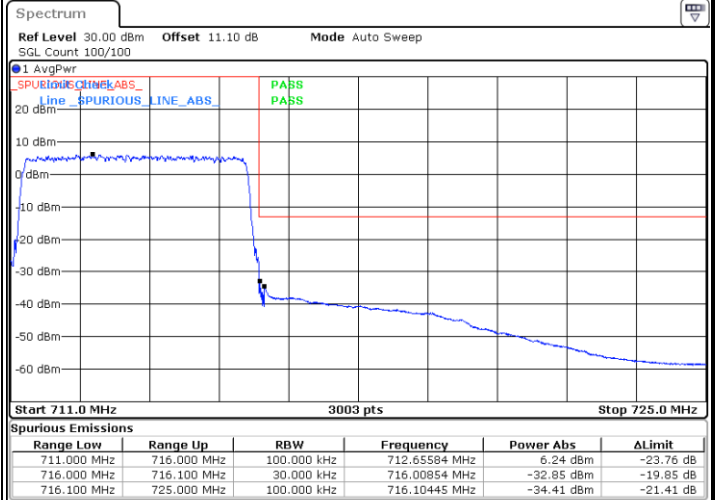
Date: 12.NOV.2021 22:22:14

Lowest Band Edge / Full RB



Date: 12.NOV.2021 22:14:52

Highest Band Edge / Full RB

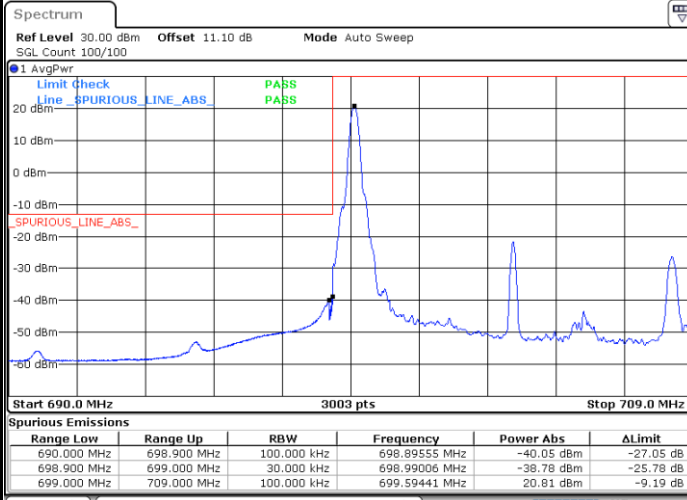


Date: 12.NOV.2021 22:20:46



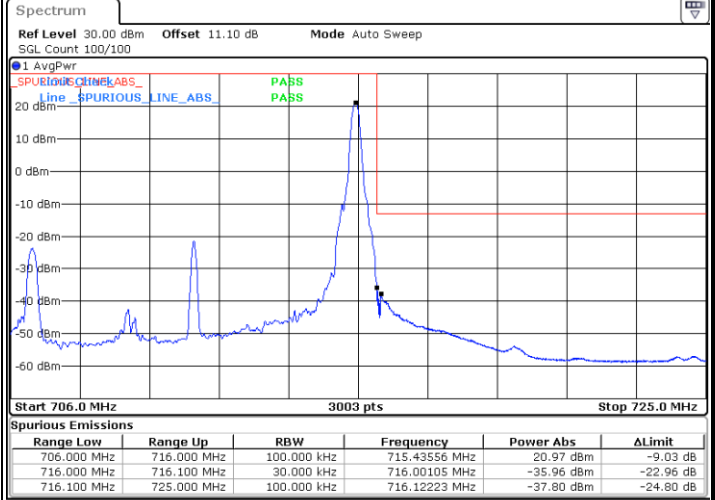
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



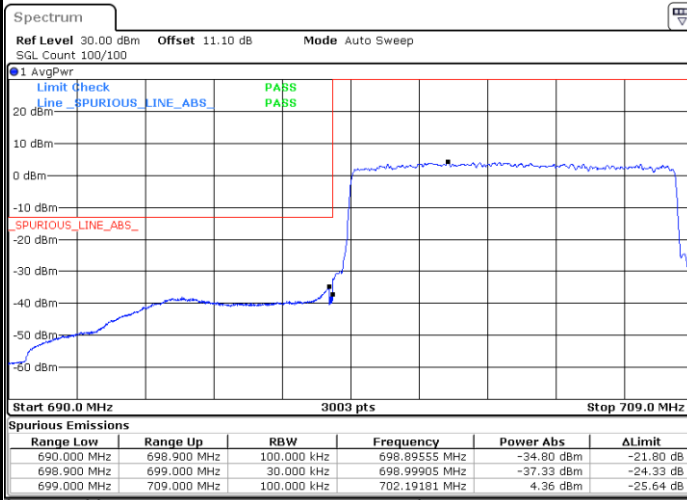
Date: 12.NOV.2021 22:25:20

Highest Band Edge / 1 RB



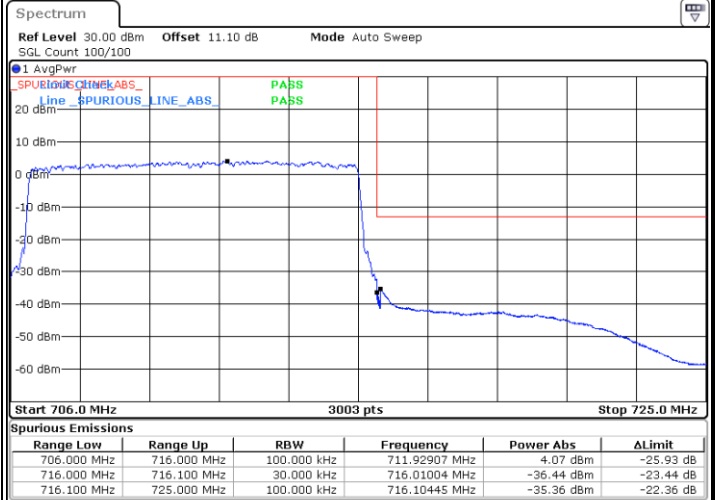
Date: 12.NOV.2021 22:29:46

Lowest Band Edge / Full RB



Date: 12.NOV.2021 22:23:52

Highest Band Edge / Full RB

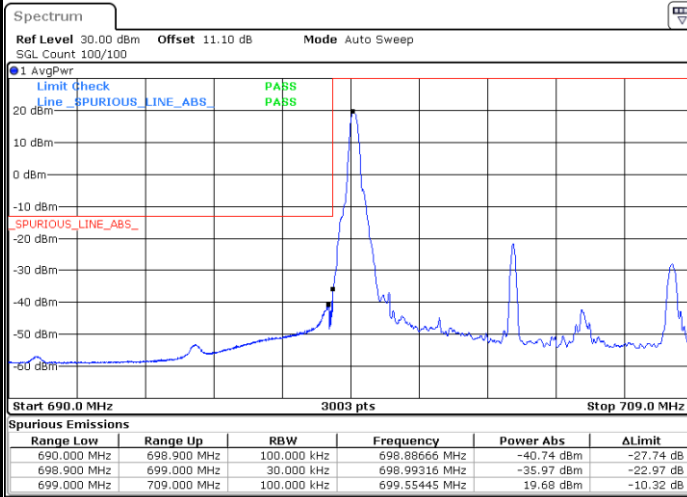


Date: 12.NOV.2021 22:28:18



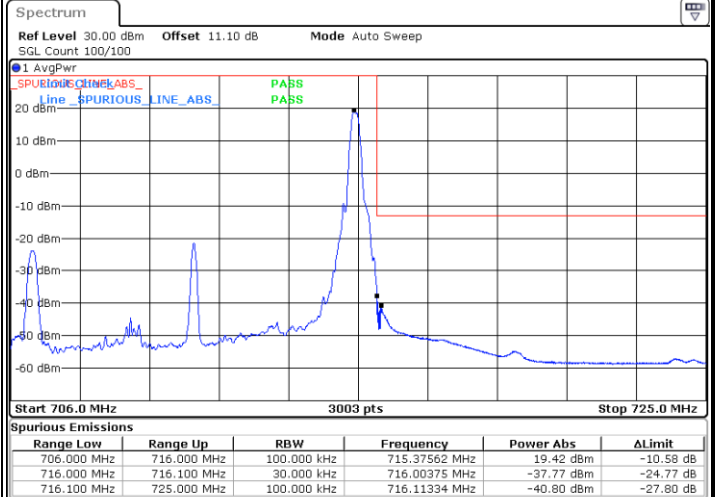
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



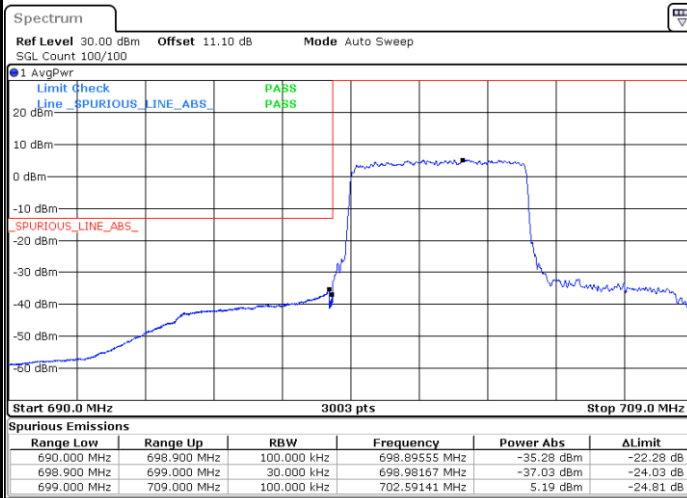
Date: 12.NOV.2021 22:24:36

Highest Band Edge / 1 RB



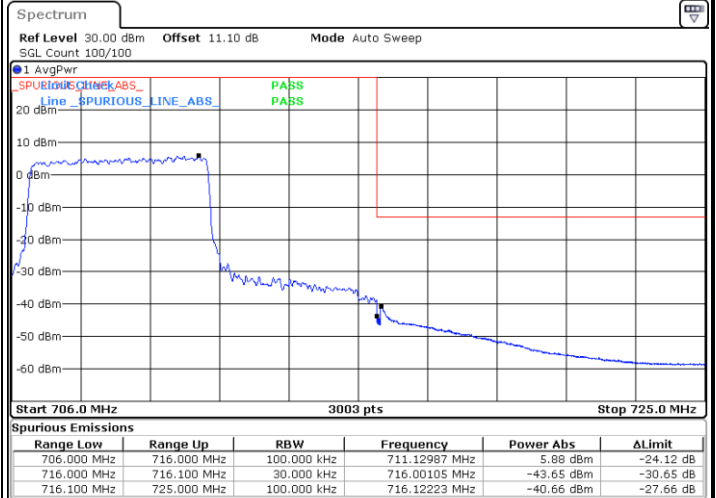
Date: 12.NOV.2021 22:29:03

Lowest Band Edge / Full RB



Date: 16.NOV.2021 18:35:35

Highest Band Edge / Full RB



Date: 16.NOV.2021 18:36:55