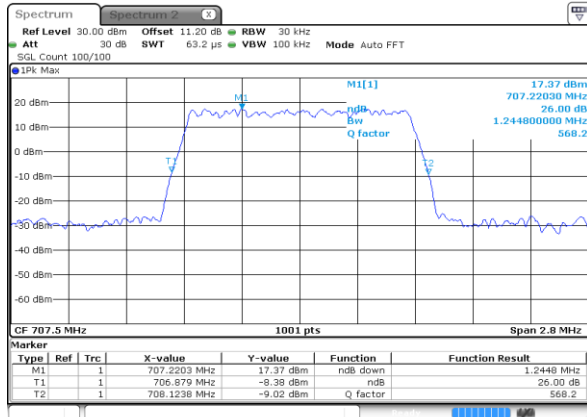


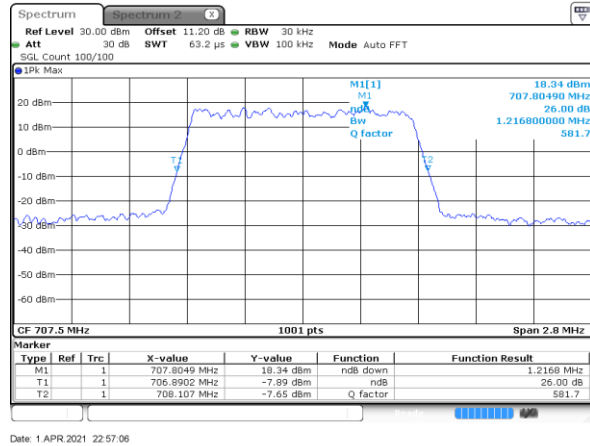


LTE Band 12

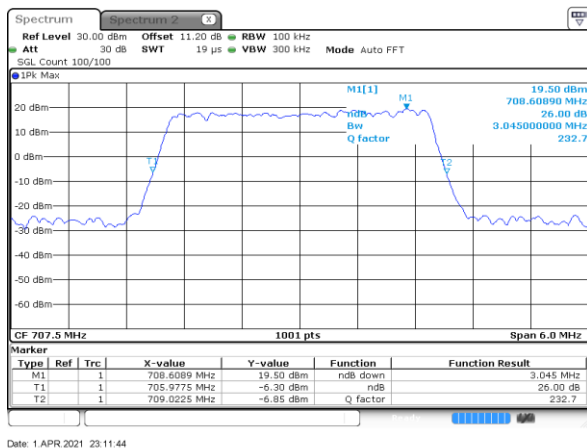
Middle Channel / 1.4MHz / QPSK



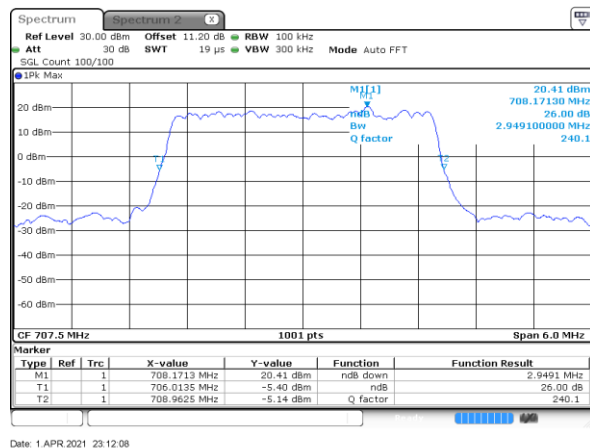
Middle Channel / 1.4MHz / 16QAM



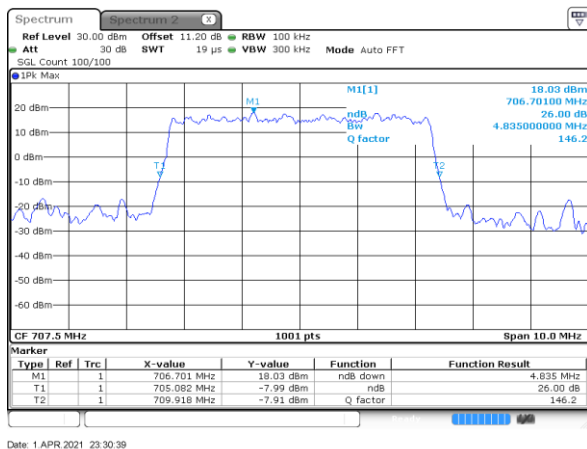
Middle Channel / 3MHz / QPSK



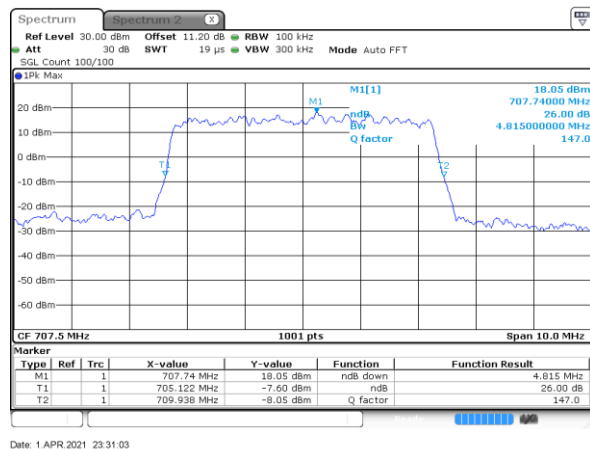
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



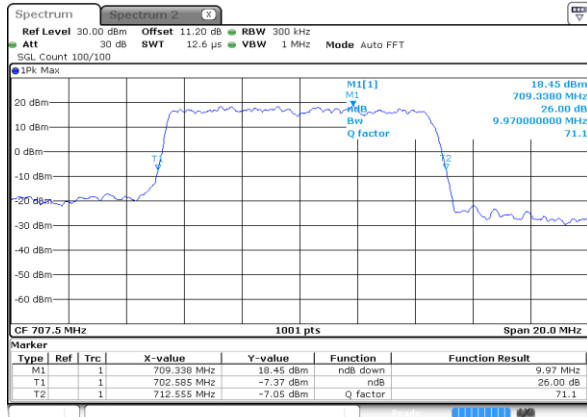
Middle Channel / 5MHz / 16QAM





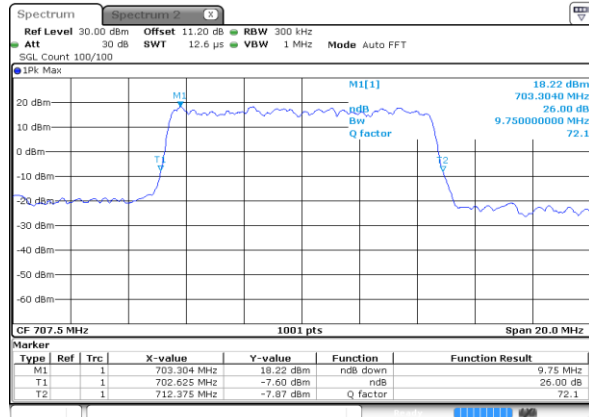
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 1 APR 2021 23:41:45

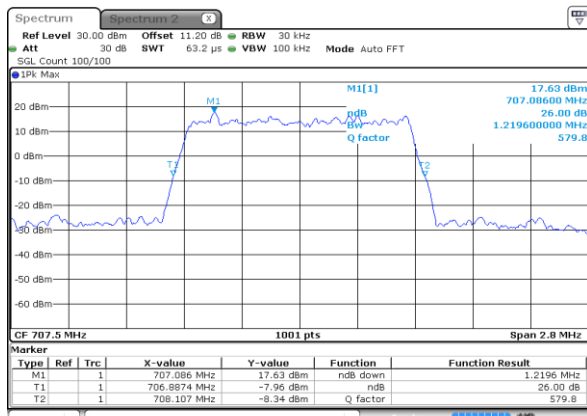
Middle Channel / 10MHz / 16QAM



Date: 1 APR 2021 23:42:09

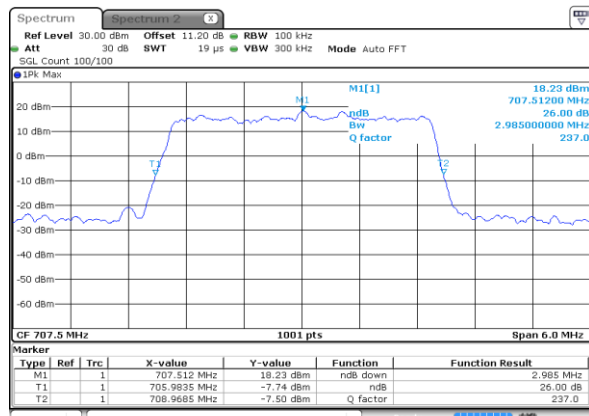
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



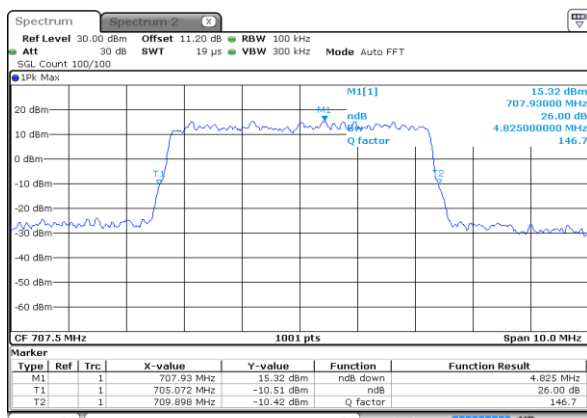
Date: 1 APR 2021 23:04:48

Middle Channel / 3MHz / 64QAM



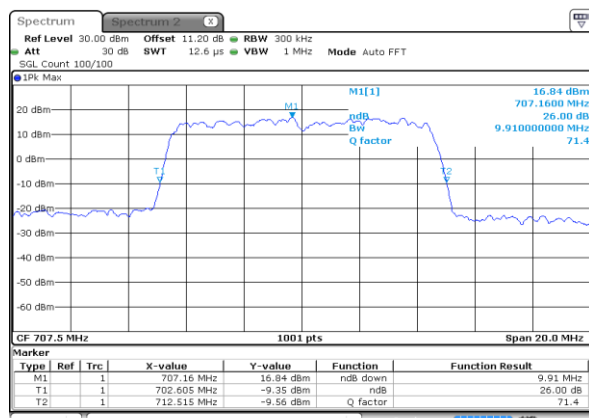
Date: 1 APR 2021 23:19:49

Middle Channel / 5MHz / 64QAM



Date: 1 APR 2021 23:23:47

Middle Channel / 10MHz / 64QAM



Date: 1 APR 2021 23:49:49

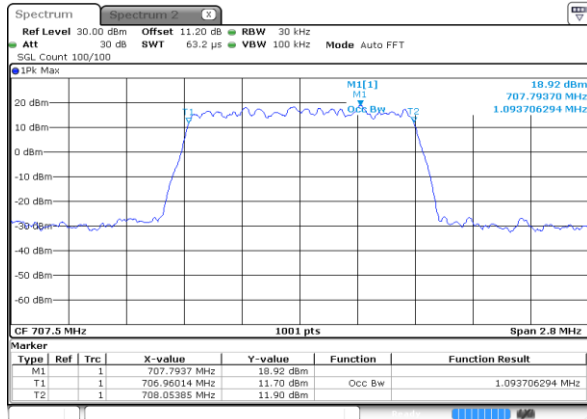
**Occupied Bandwidth**

Mode	LTE Band 12 : 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	2.73	2.72	4.47	4.51	9.09	9.01	-	-	-	-
Mode	LTE Band 12 : 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	-	4.45	-	9.01	-	-	-	-	-

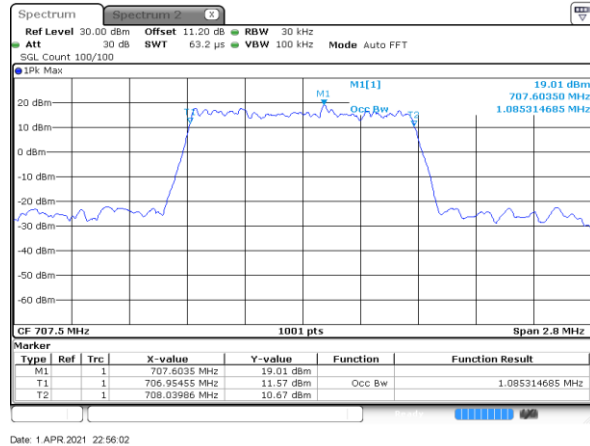


LTE Band 12

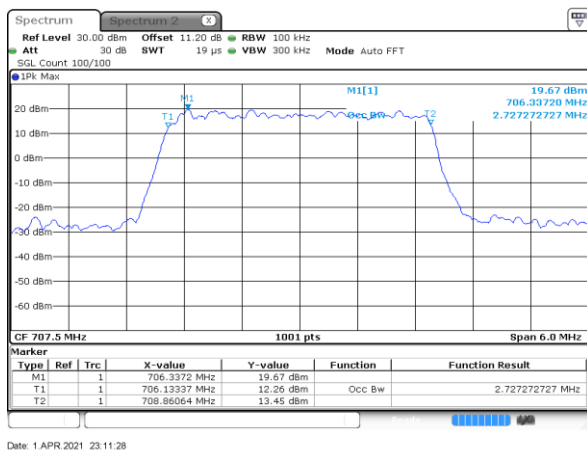
Middle Channel / 1.4MHz / QPSK



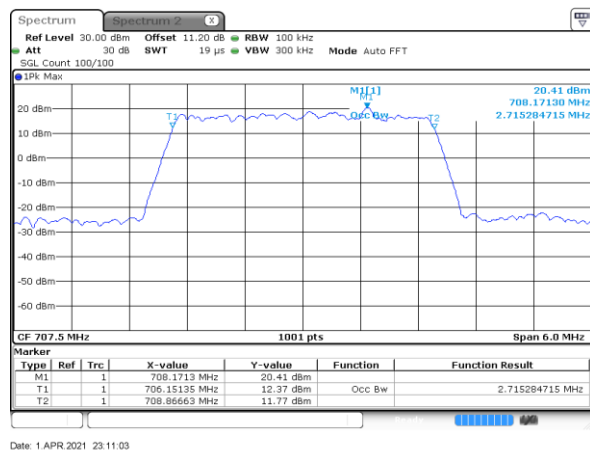
Middle Channel / 1.4MHz / 16QAM



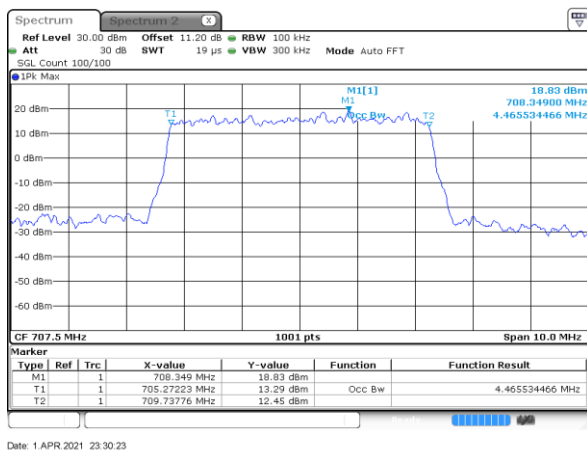
Middle Channel / 3MHz / QPSK



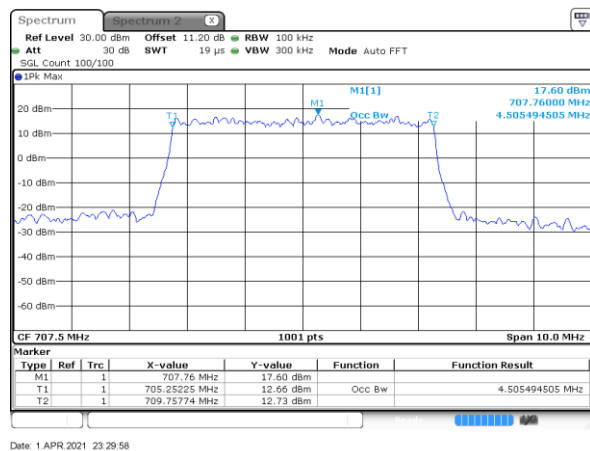
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



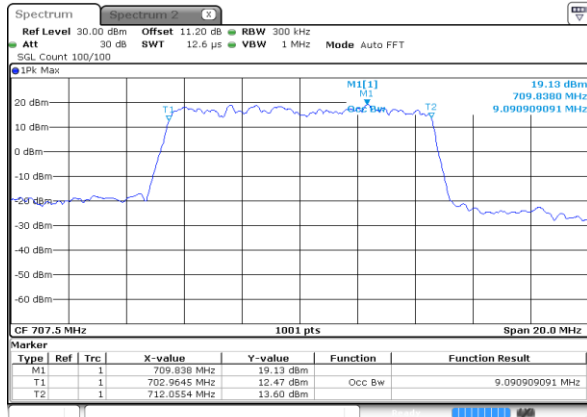
Middle Channel / 5MHz / 16QAM



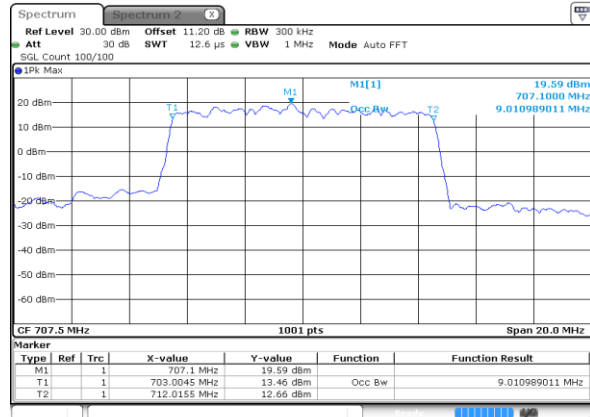


LTE Band 12

Middle Channel / 10MHz / QPSK

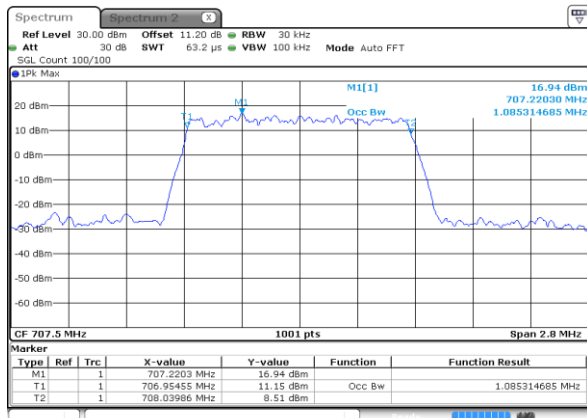


Middle Channel / 10MHz / 16QAM

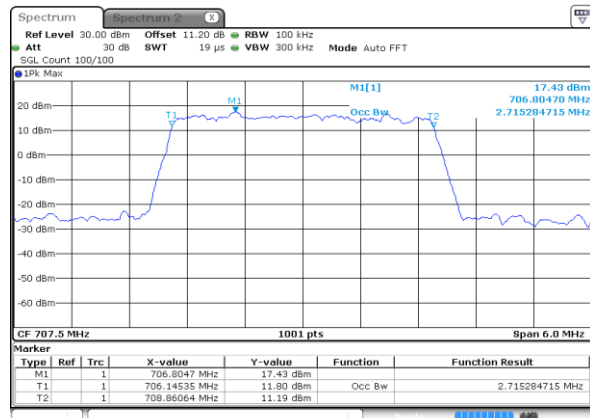


LTE Band 12

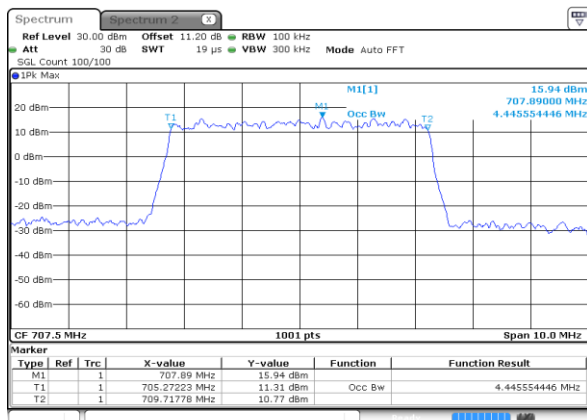
Middle Channel / 1.4MHz / 64QAM



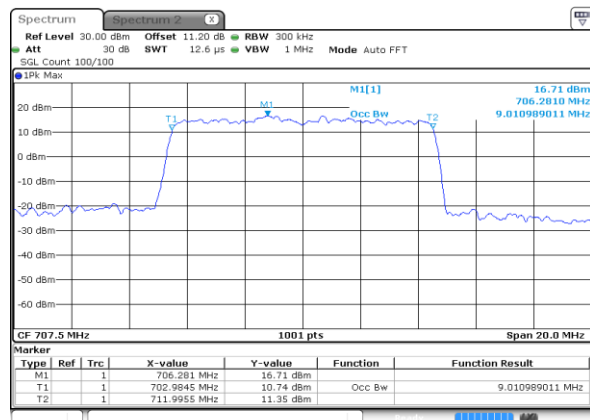
Middle Channel / 3MHz / 64QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

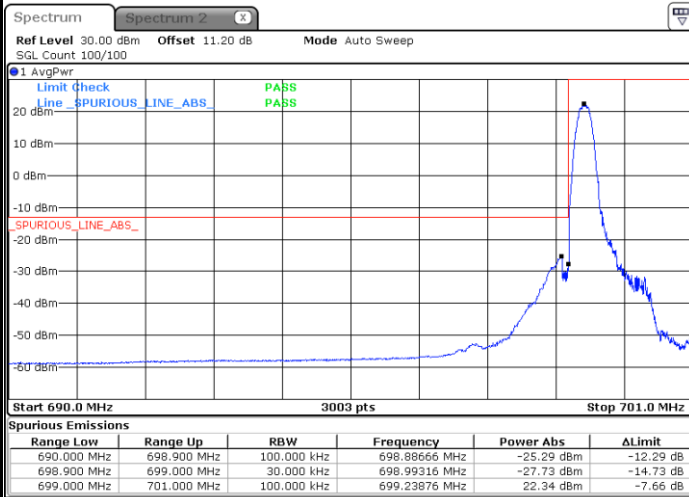




Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



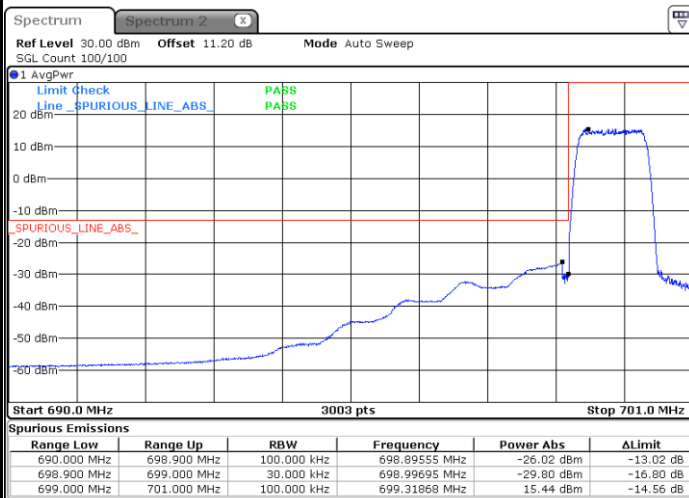
Date: 1 APR 2021 22:54:42

Highest Band Edge / 1RB



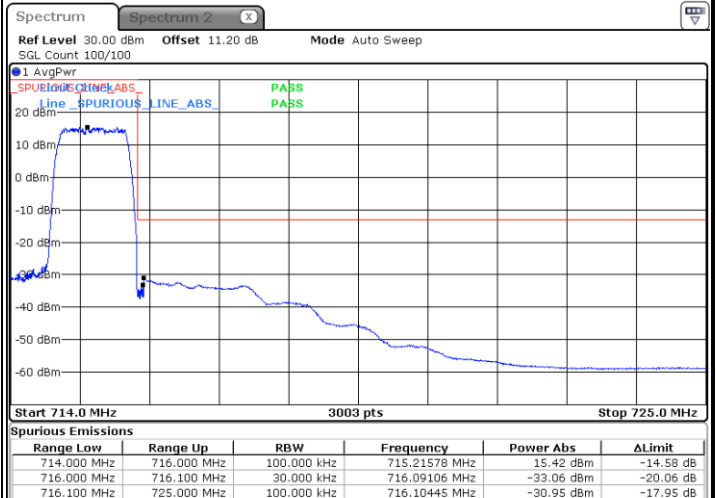
Date: 1 APR 2021 23:01:25

Lowest Band Edge / Full RB



Date: 1 APR 2021 22:52:15

Highest Band Edge / Full RB

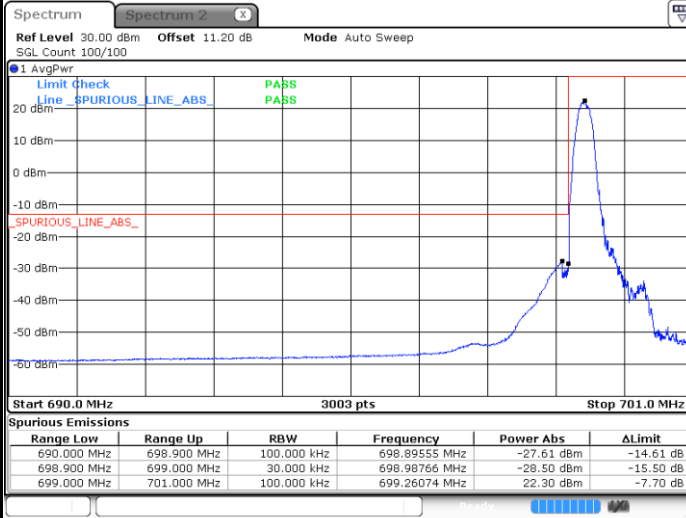


Date: 1 APR 2021 22:58:58

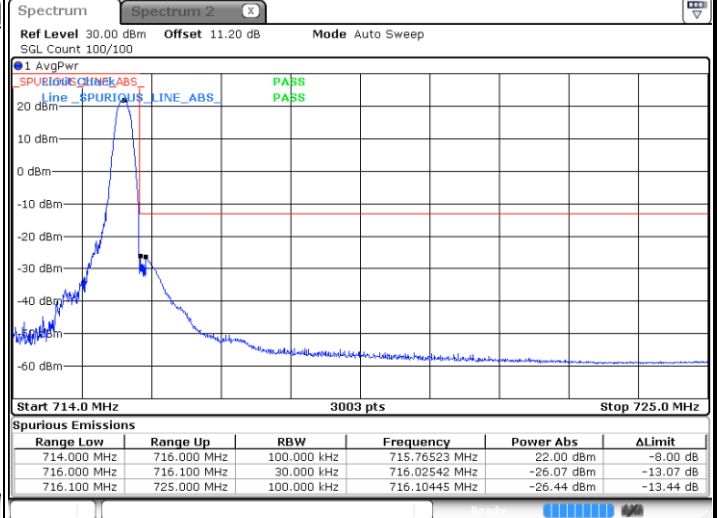


LTE Band 12 / 1.4MHz / 16QAM

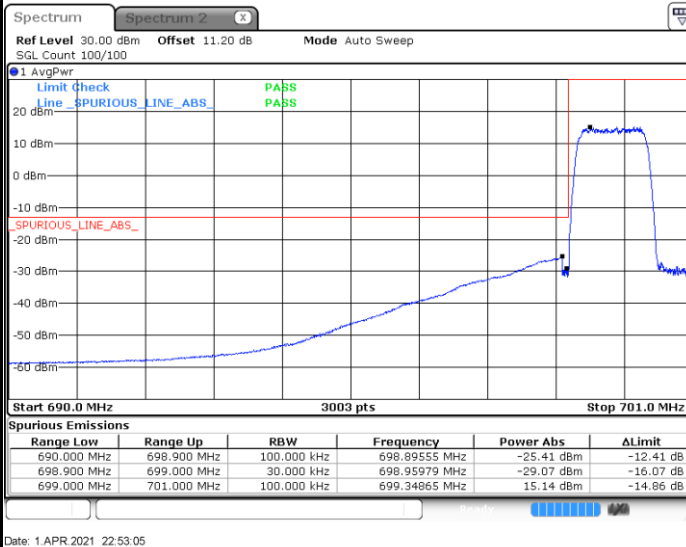
Lowest Band Edge / 1 RB



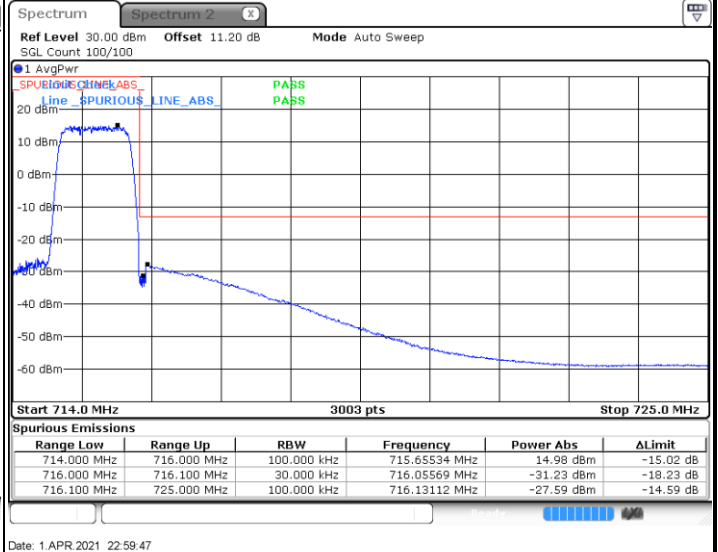
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



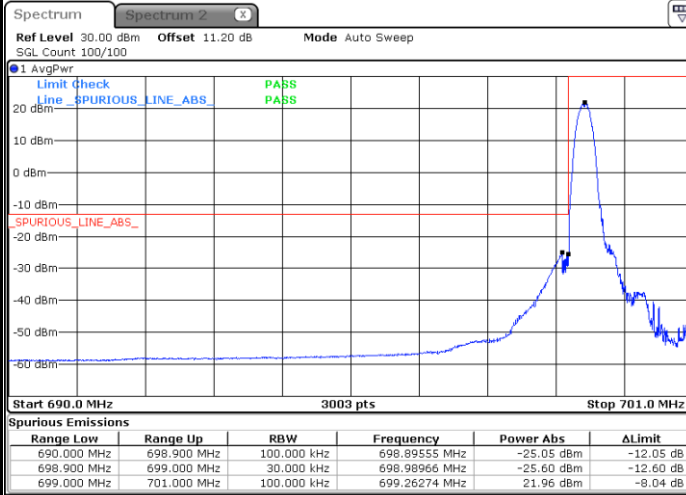
Highest Band Edge / Full RB



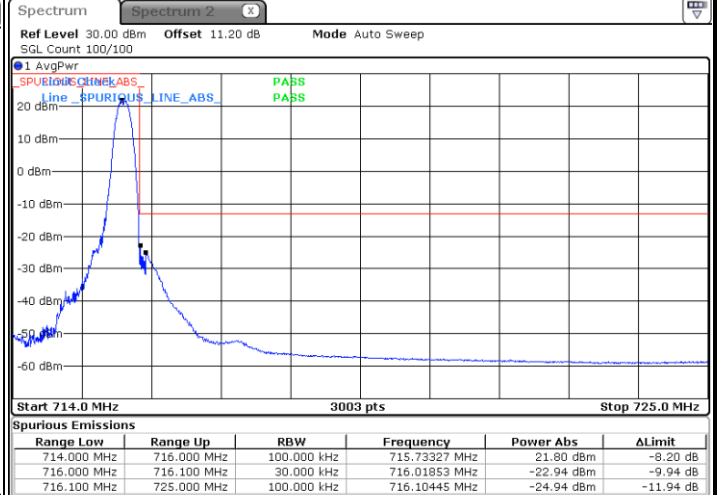


LTE Band 12 / 1.4MHz / 64QAM

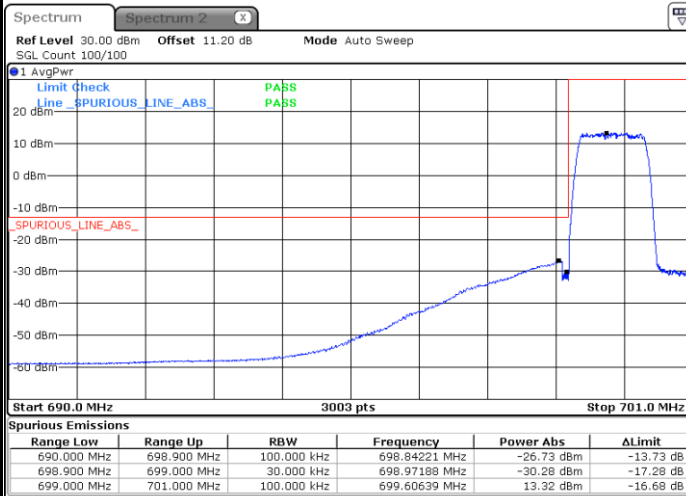
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



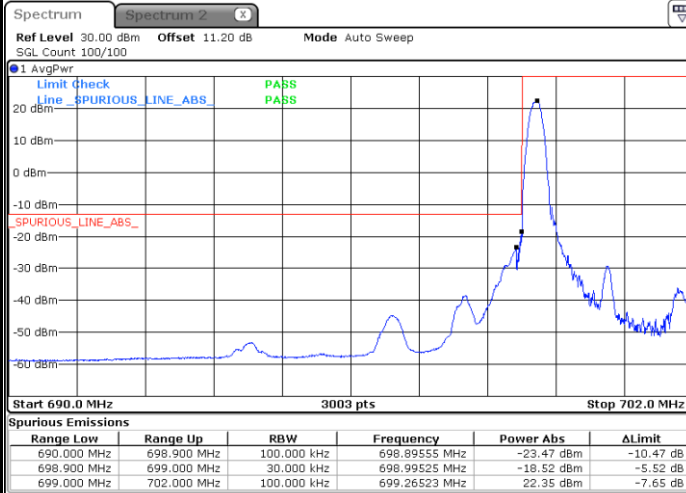
Highest Band Edge / Full RB



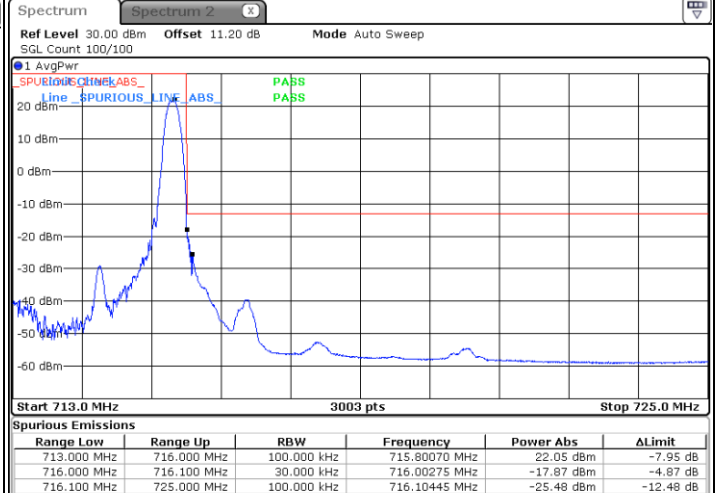


LTE Band 12 / 3MHz / QPSK

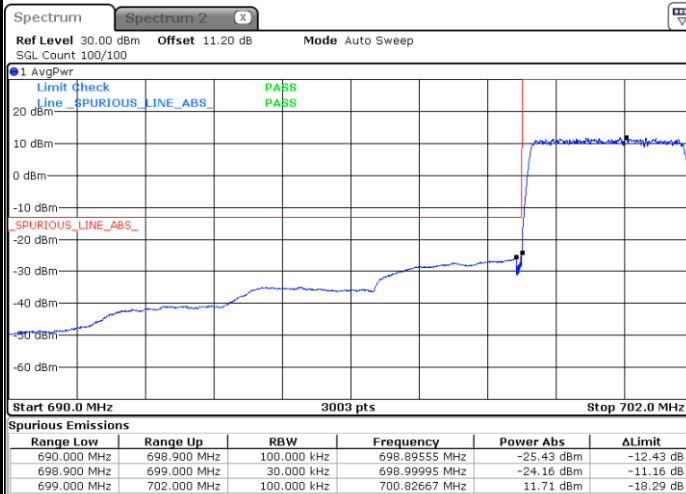
Lowest Band Edge / 1RB



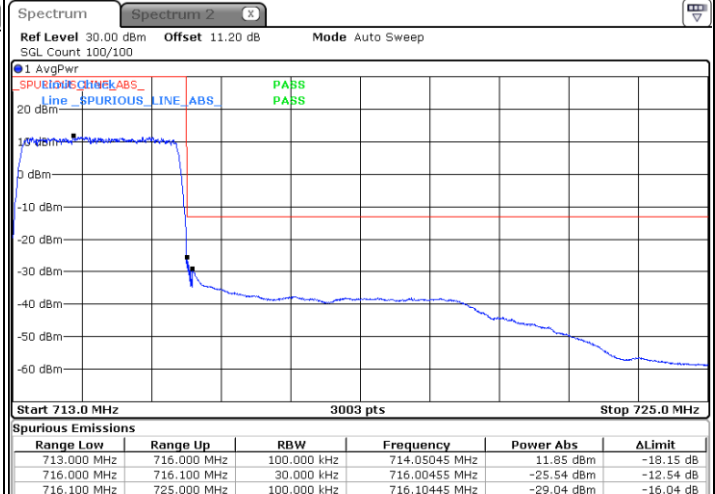
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



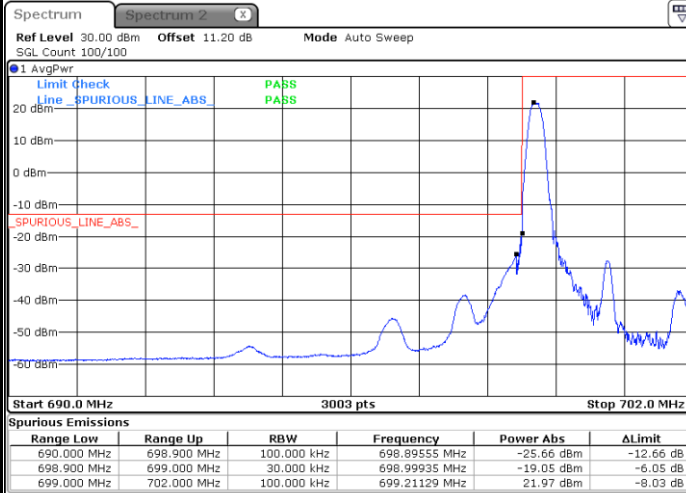
Highest Band Edge / Full RB



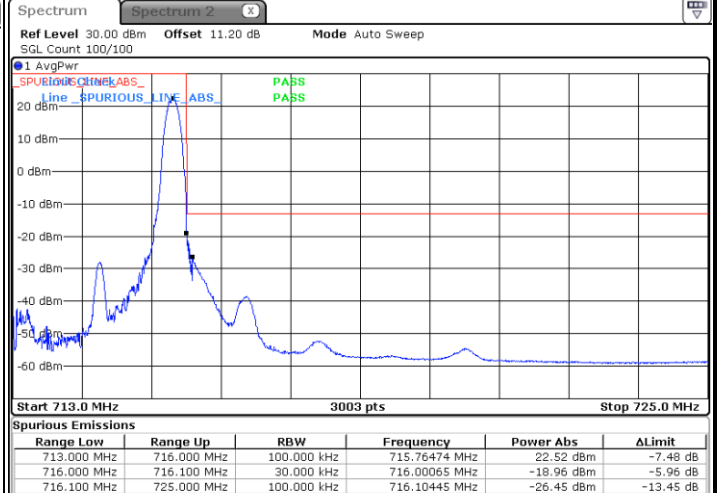


LTE Band 12 / 3MHz / 16QAM

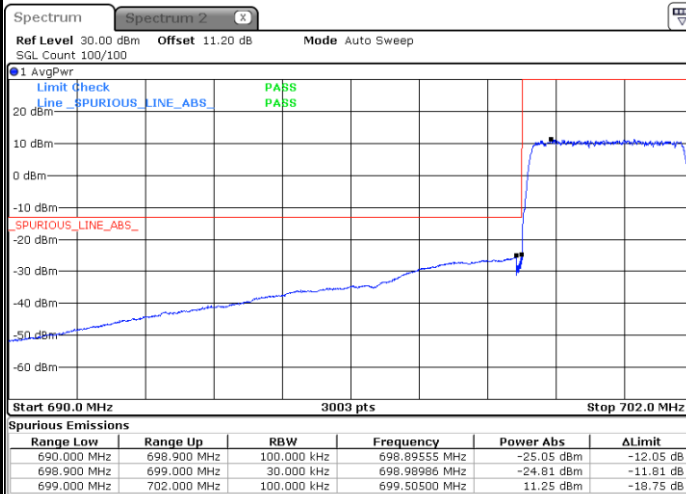
Lowest Band Edge / 1 RB



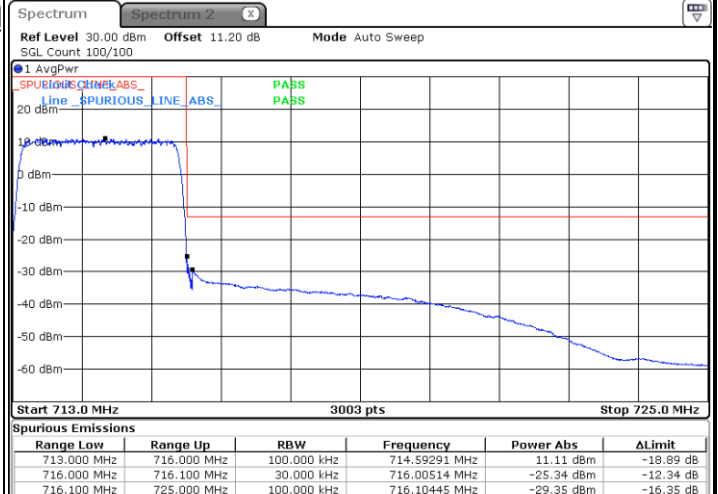
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



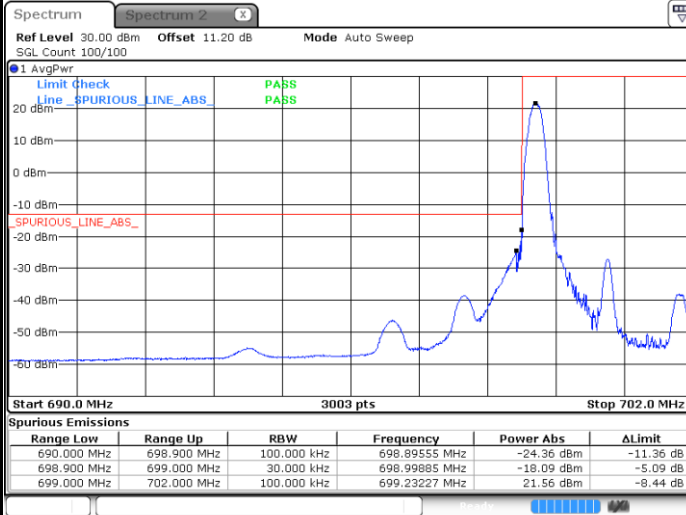
Highest Band Edge / Full RB



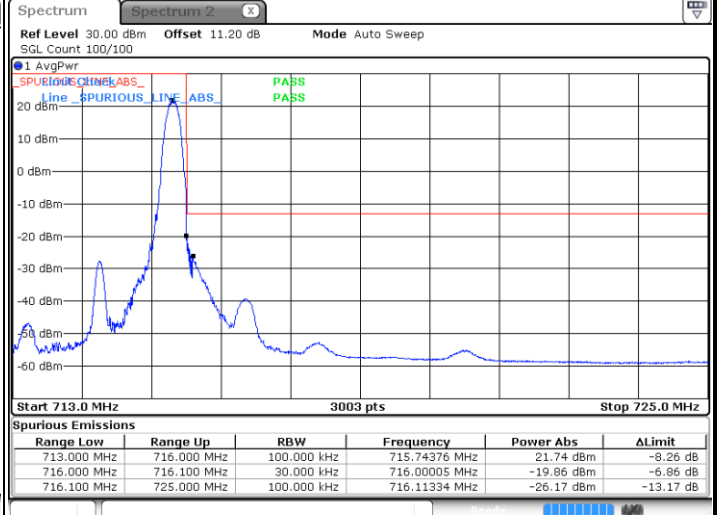


LTE Band 12 / 3MHz / 64QAM

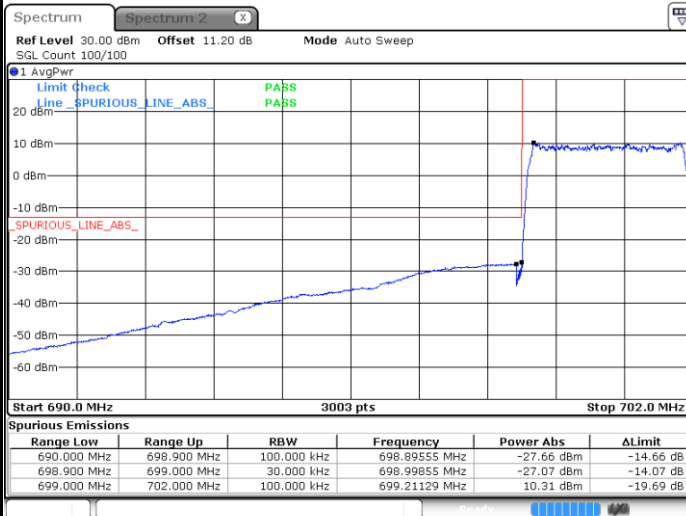
Lowest Band Edge / 1 RB



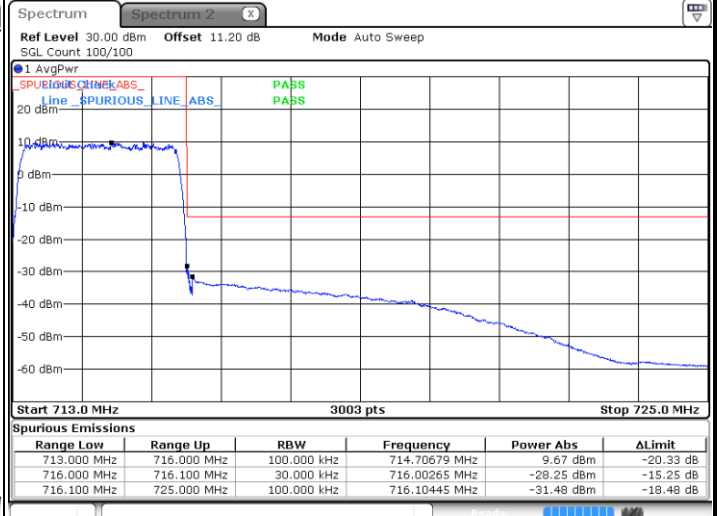
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



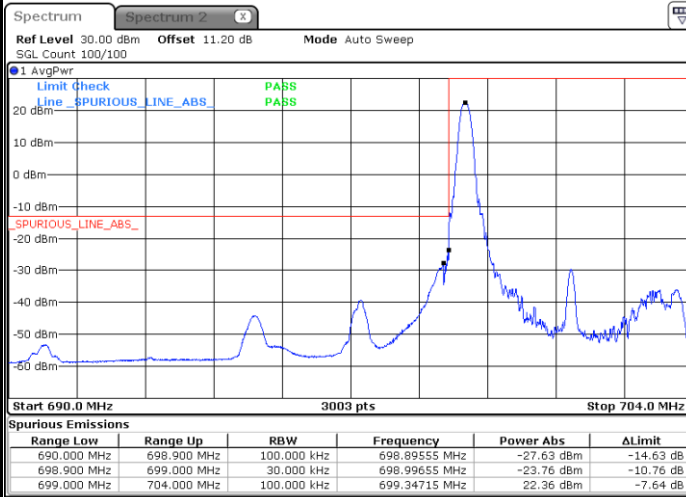
Highest Band Edge / Full RB



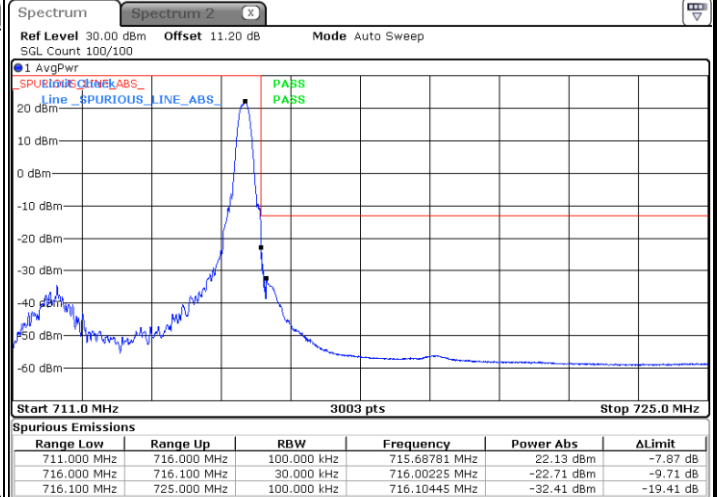


LTE Band 12 / 5MHz / QPSK

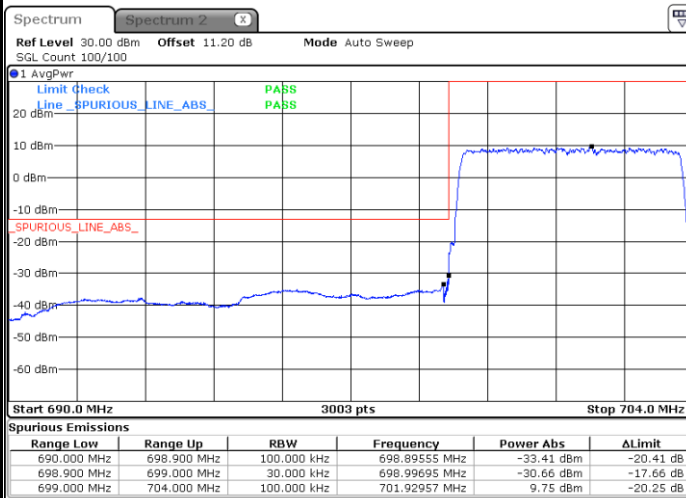
Lowest Band Edge / 1 RB



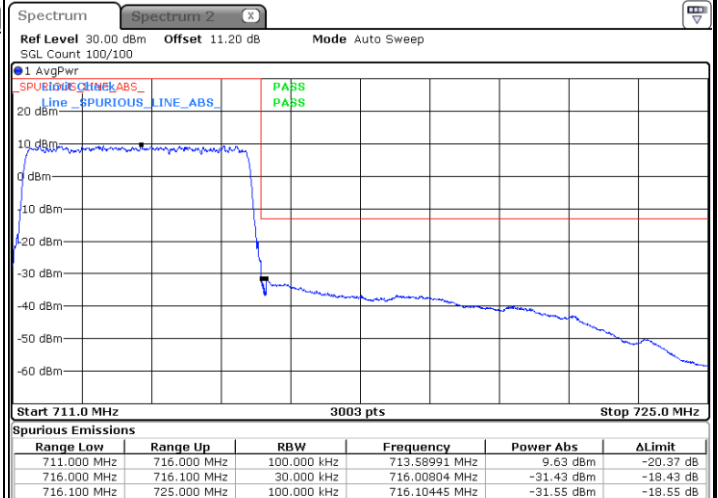
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



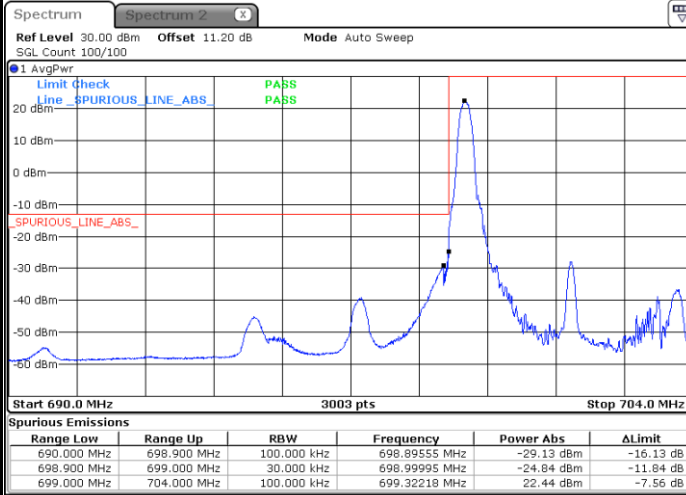
Highest Band Edge / Full RB



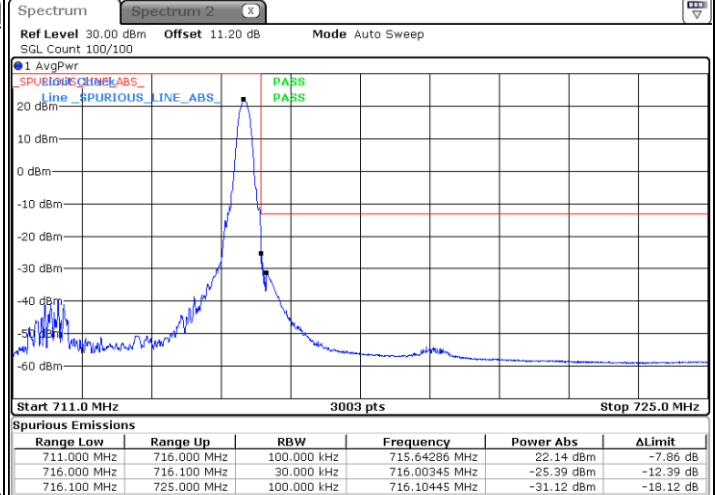


LTE Band 12 / 5MHz / 16QAM

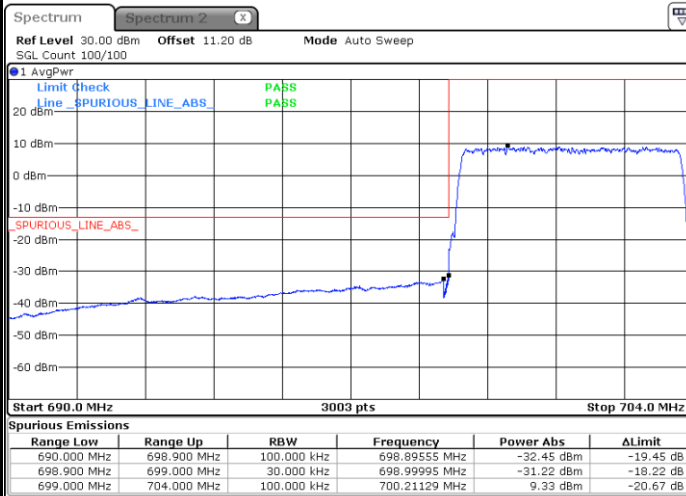
Lowest Band Edge / 1RB



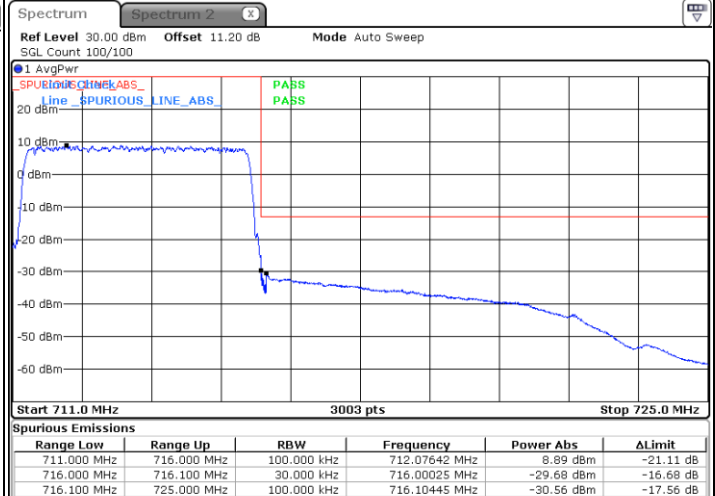
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



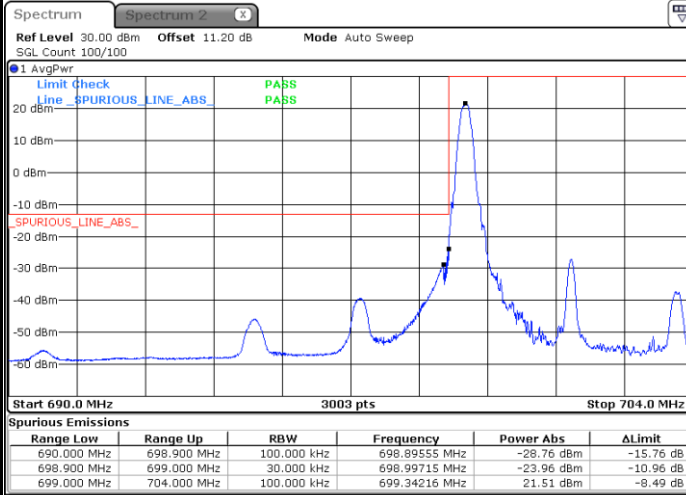
Highest Band Edge / Full RB



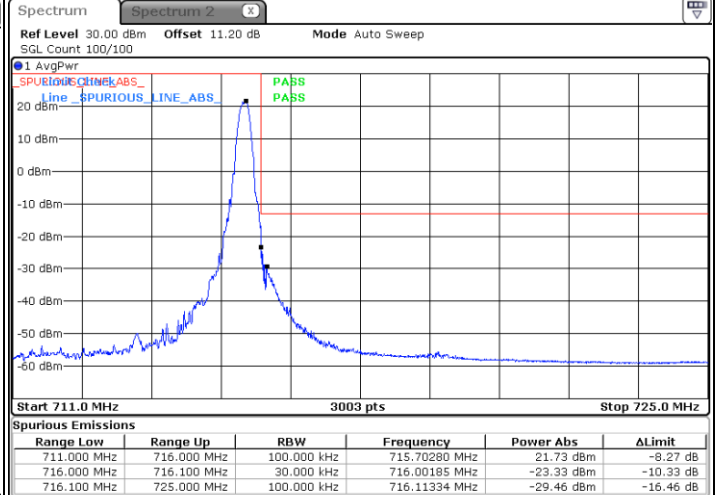


LTE Band 12 / 5MHz / 64QAM

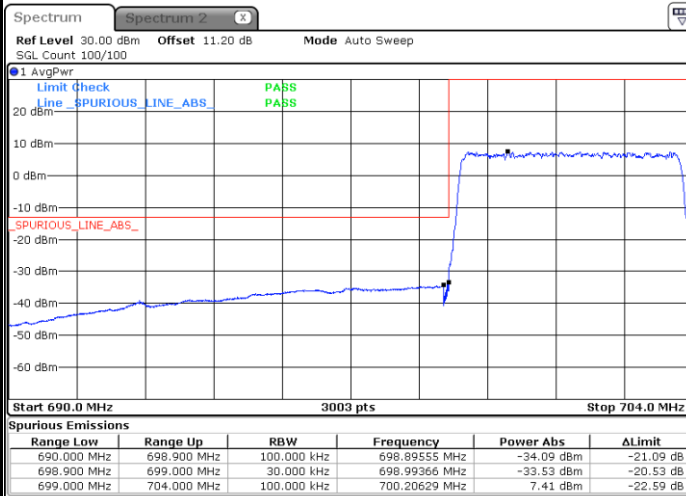
Lowest Band Edge / 1RB



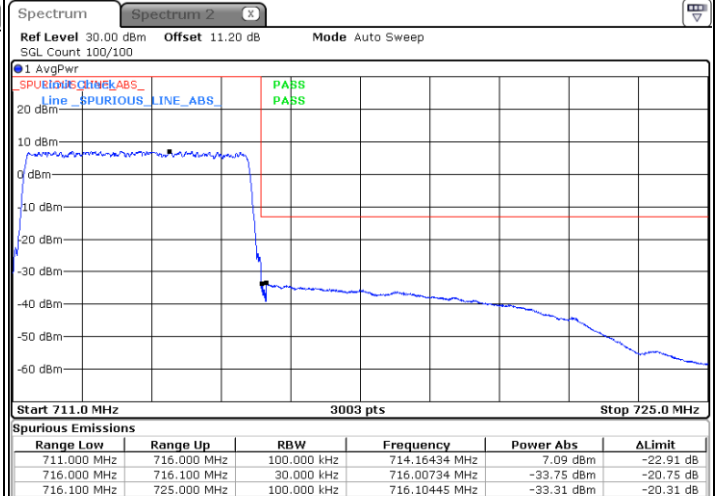
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



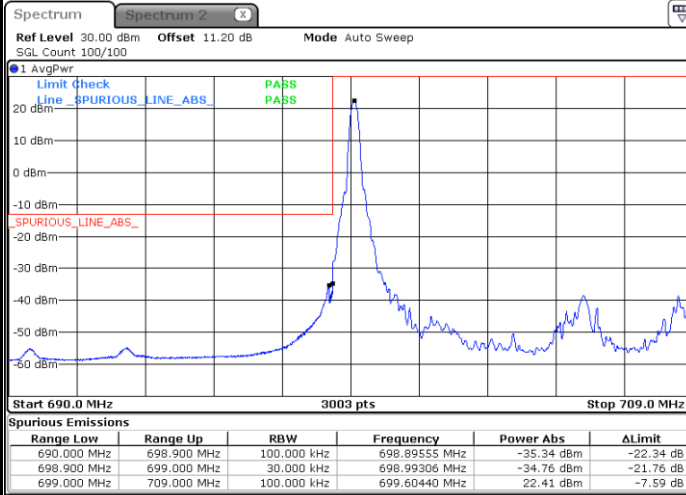
Highest Band Edge / Full RB



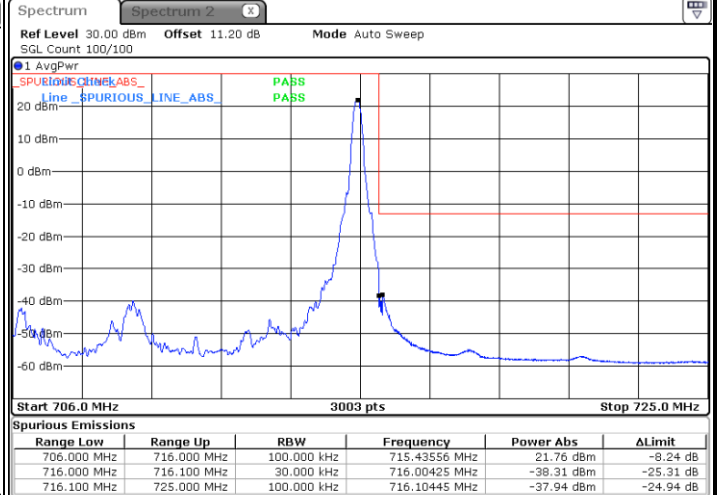


LTE Band 12 / 10MHz / QPSK

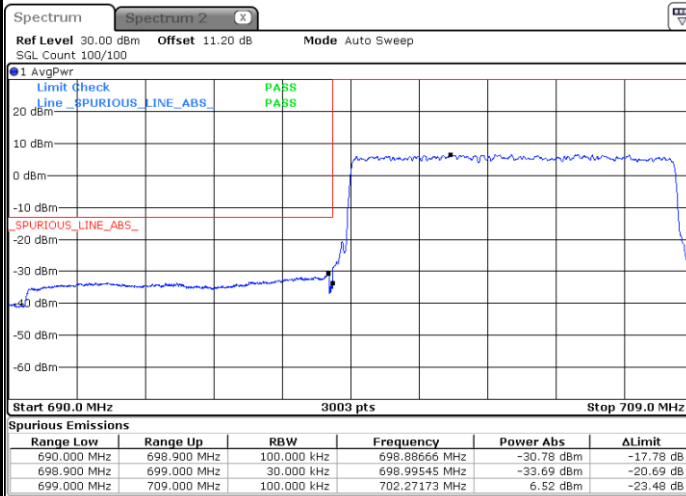
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



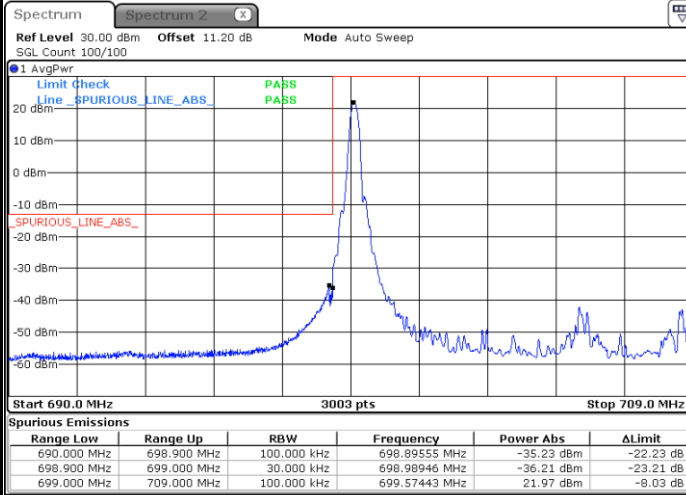
Highest Band Edge / Full RB



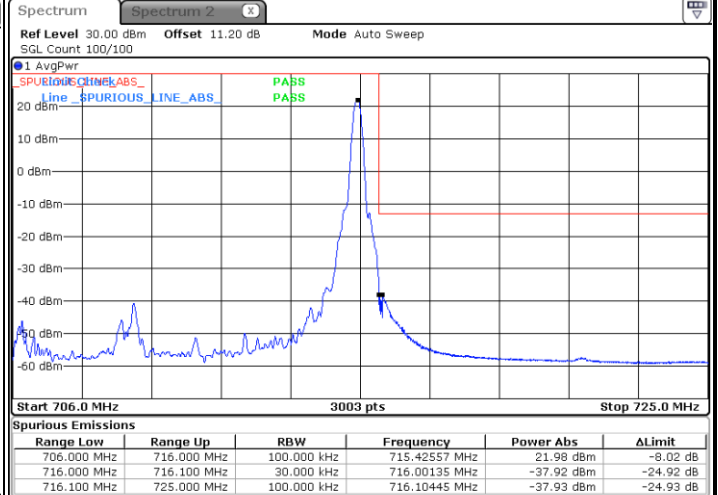


LTE Band 12 / 10MHz / 16QAM

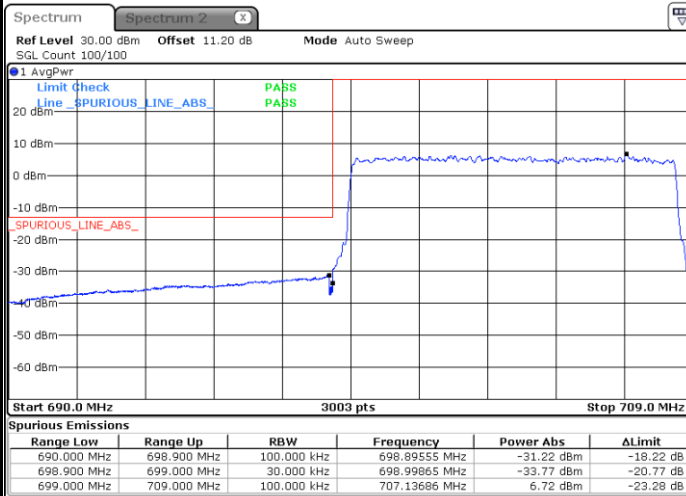
Lowest Band Edge / 1 RB



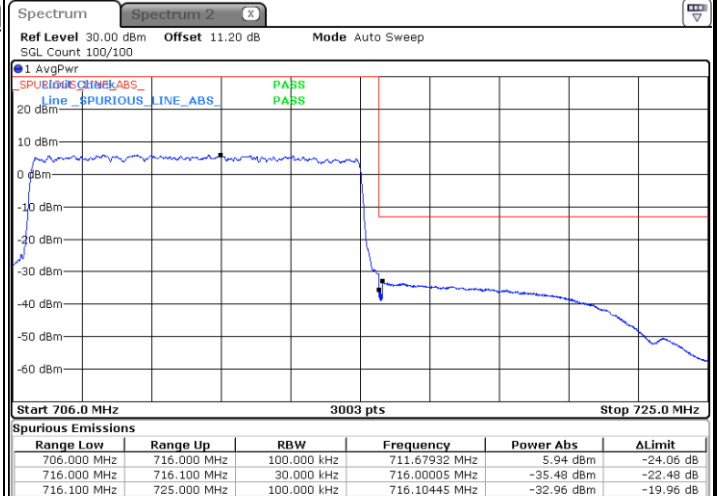
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



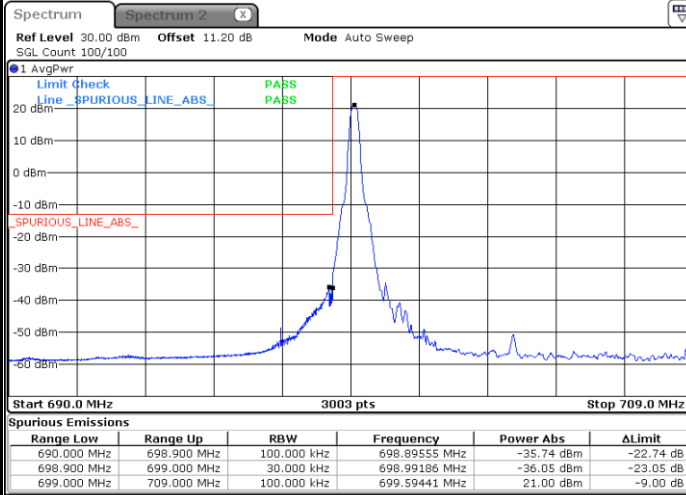
Highest Band Edge / Full RB



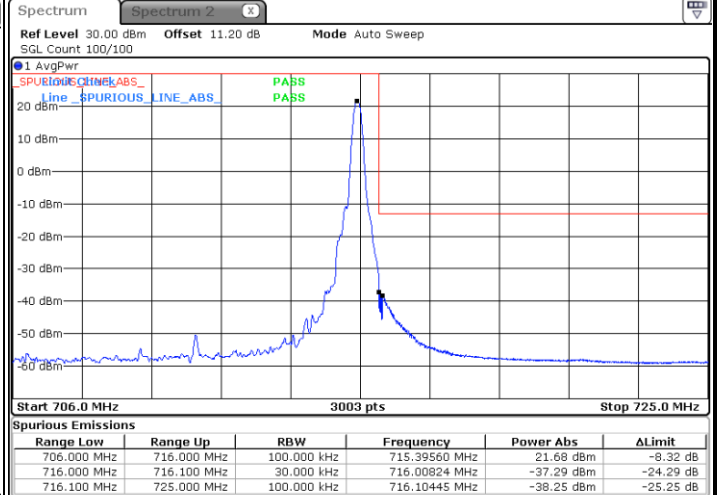


LTE Band 12 / 10MHz / 64QAM

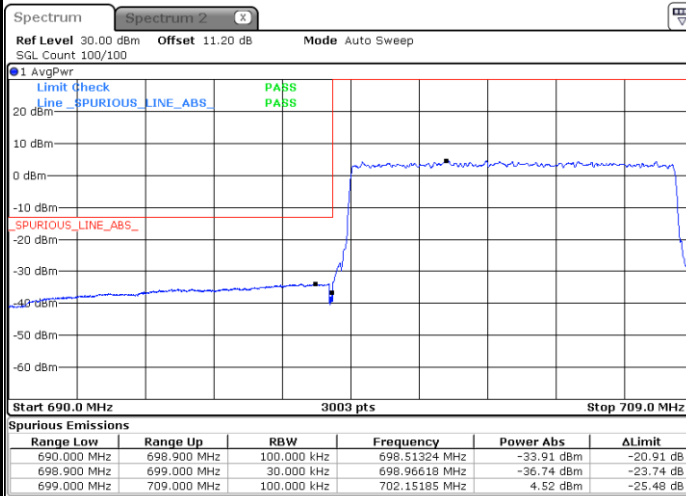
Lowest Band Edge / 1 RB



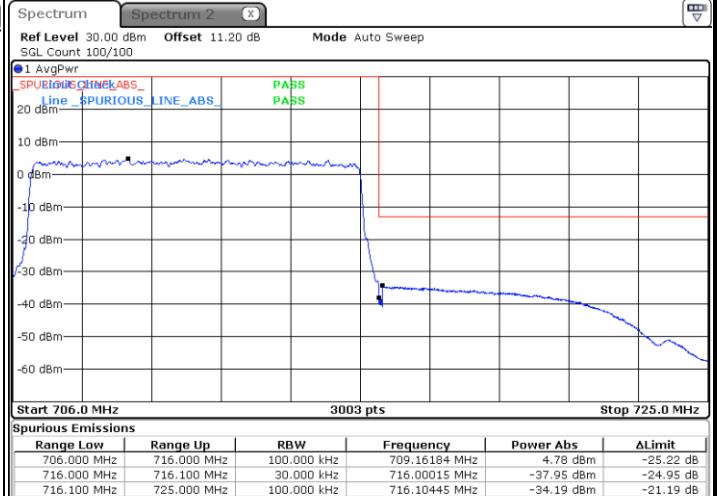
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

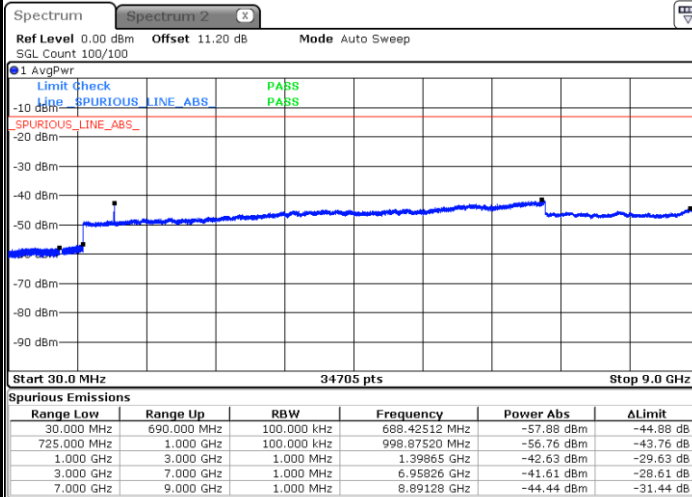




Conducted Spurious Emission

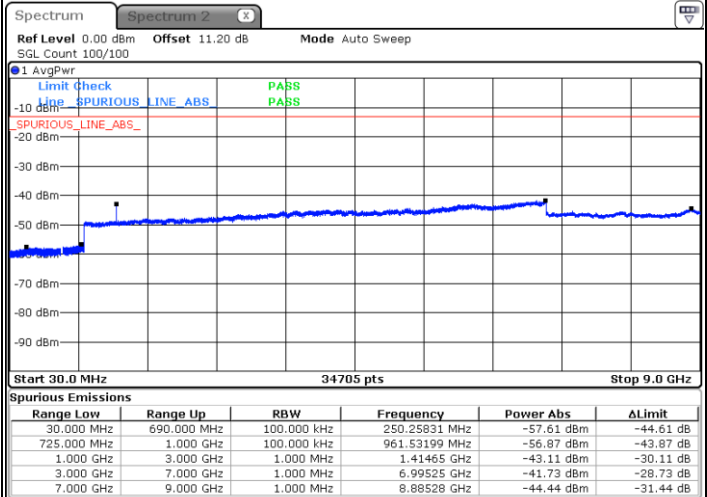
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



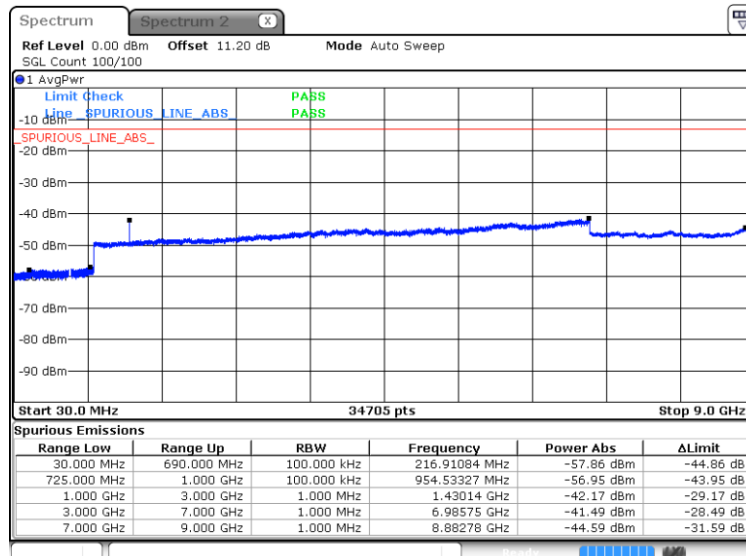
Date: 1 APR 2021 22:55:37

Middle Channel / QPSK



Date: 1 APR 2021 22:58:09

Highest Channel / QPSK

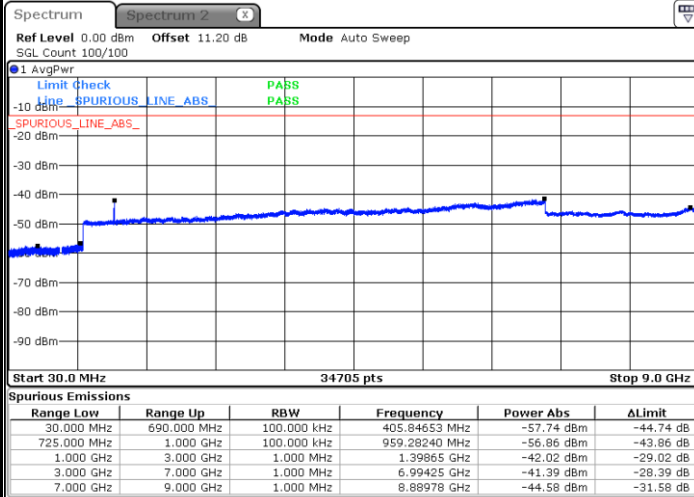


Date: 1 APR 2021 23:02:28



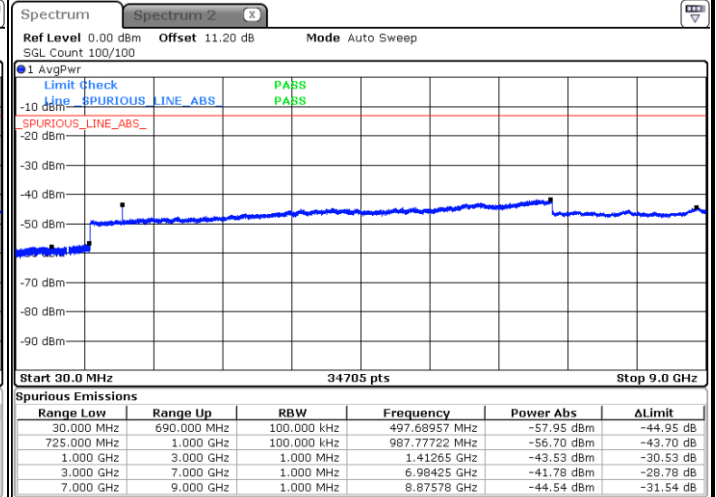
LTE Band 12 / 3MHz

Lowest Channel / QPSK



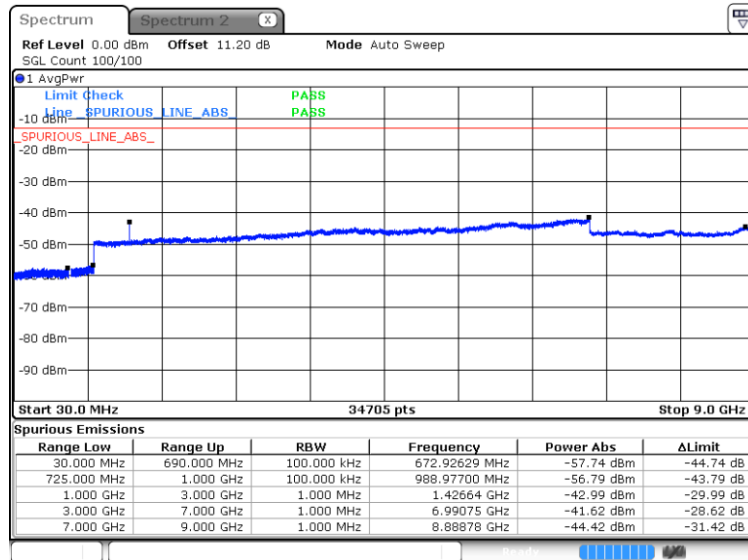
Date: 1 APR 2021 23:10:38

Middle Channel / QPSK



Date: 1 APR 2021 23:13:10

Highest Channel / QPSK

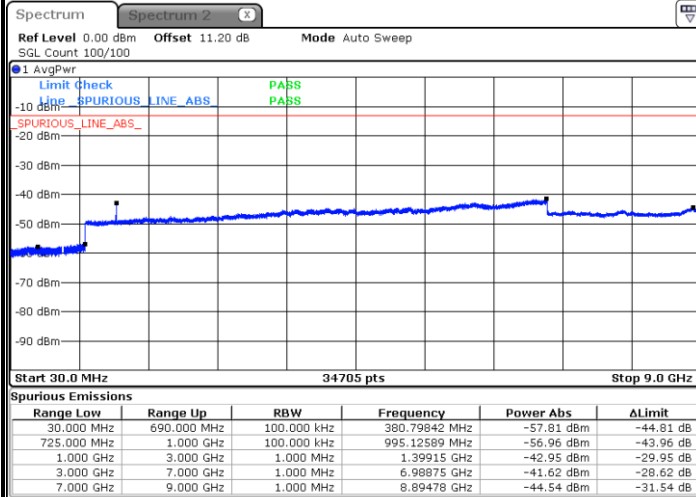


Date: 1 APR 2021 23:17:30



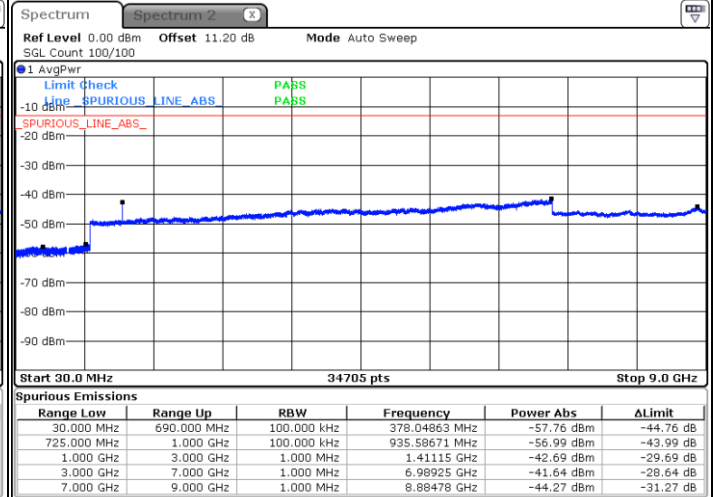
LTE Band 12 / 5MHz

Lowest Channel / QPSK



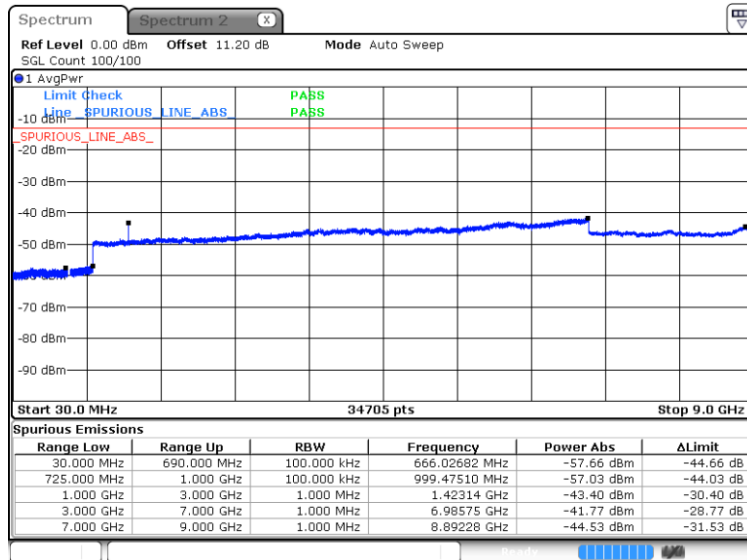
Date: 1 APR 2021 23:29:33

Middle Channel / QPSK



Date: 1 APR 2021 23:32:05

Highest Channel / QPSK

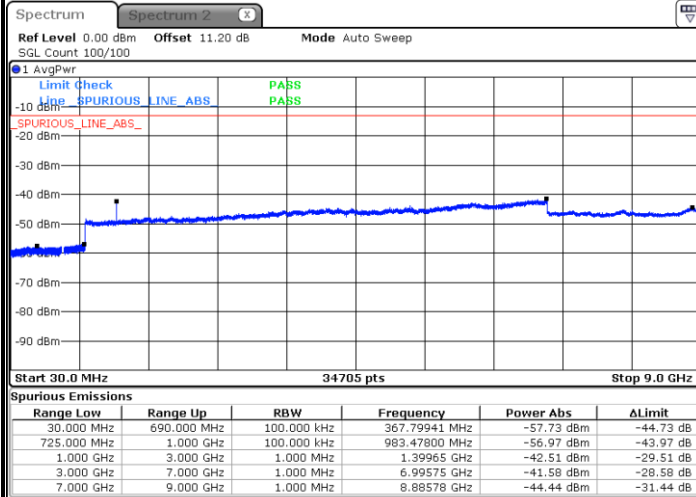


Date: 1 APR 2021 23:36:26



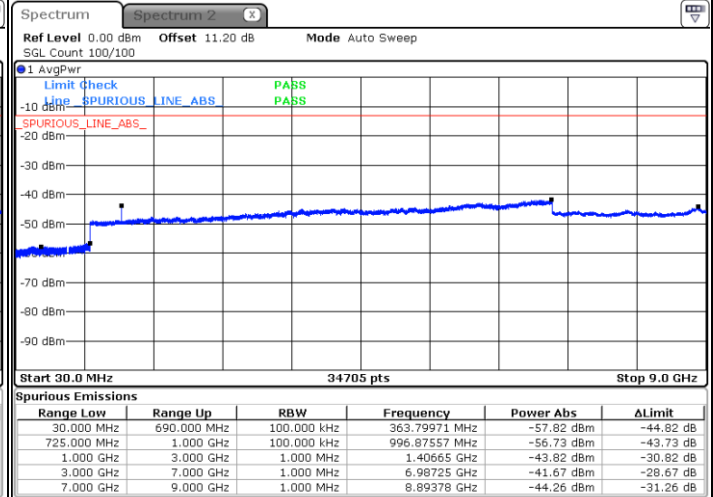
LTE Band 12 / 10MHz

Lowest Channel / QPSK



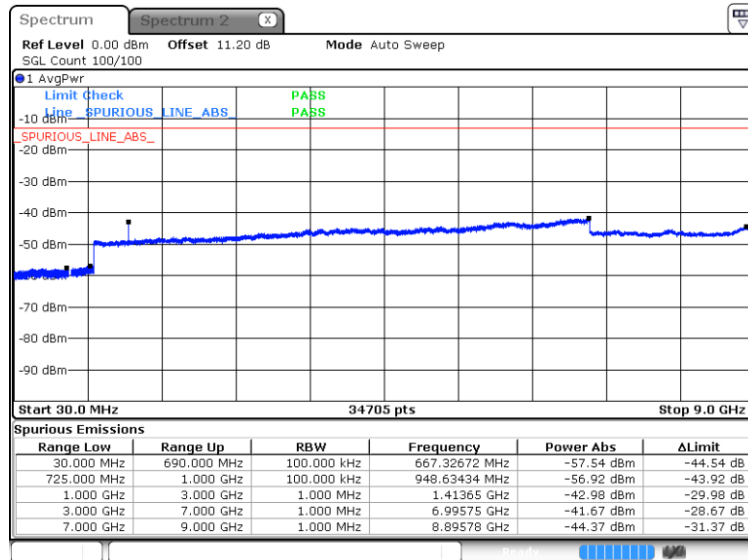
Date: 1 APR 2021 23:40:39

Middle Channel / QPSK



Date: 1 APR 2021 23:43:11

Highest Channel / QPSK



Date: 1 APR 2021 23:47:30

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	0.0020	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0128	
-20	Normal Voltage	0.0158	
-30	Normal Voltage	0.0073	
20	Maximum Voltage	0.0155	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

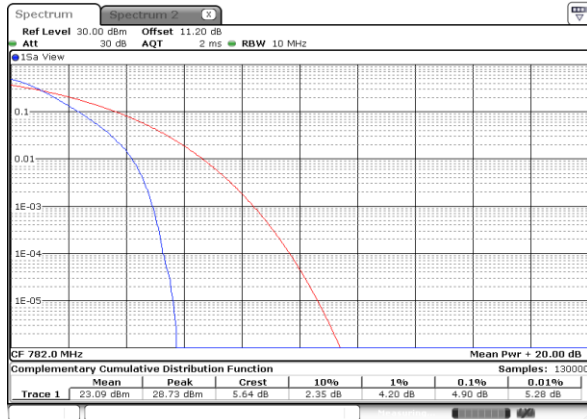
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



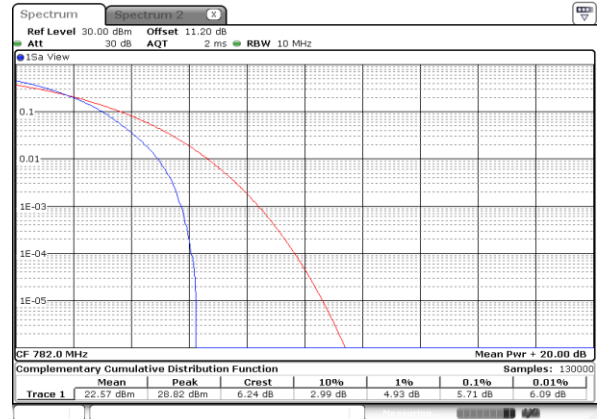
LTE Band 13

Peak-to-Average Ratio

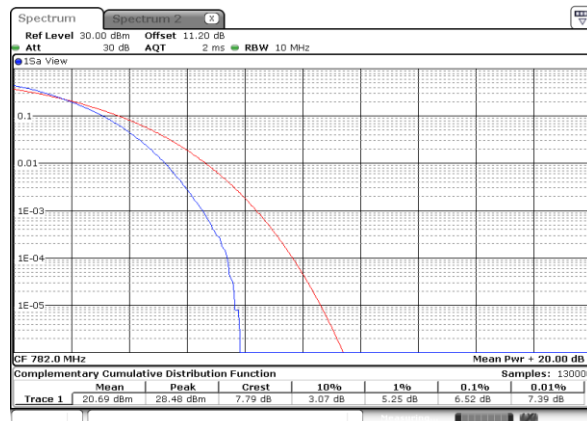
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.71	6.52	-	PASS

LTE Band 13 / 10MHz / QPSK
Middle Channel / Full RB


Date: 6 APR 2021 21:26:16

LTE Band 13 / 10MHz / 16QAM
Middle Channel / Full RB


Date: 6 APR 2021 21:25:49

LTE Band 13 / 10MHz / 64QAM
Middle Channel / Full RB


Date: 6 APR 2021 21:25:22

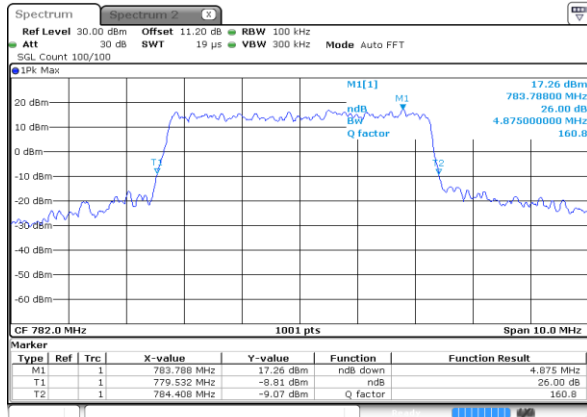
**26dB Bandwidth**

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	-	-	-	-	4.88	4.90	9.77	9.85	-	-	-	-
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	-	-	-	-	4.97	-	9.73	-	-	-	-	-



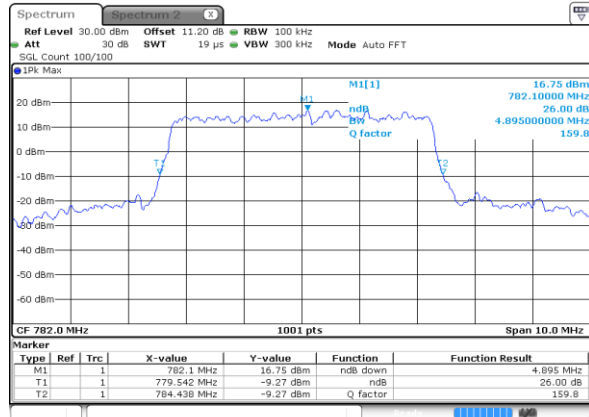
LTE Band 13

Middle Channel / 5MHz / QPSK



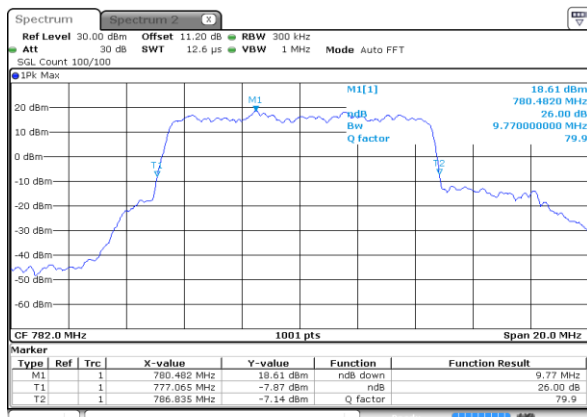
Date: 6 APR 2021 20:46:45

Middle Channel / 5MHz / 16QAM



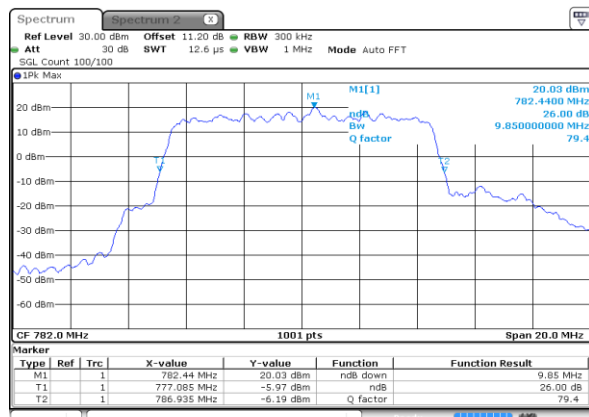
Date: 6 APR 2021 20:47:08

Middle Channel / 10MHz / QPSK



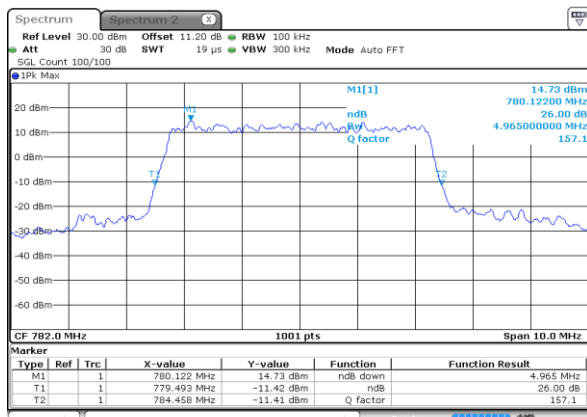
Date: 6 APR 2021 21:06:23

Middle Channel / 10MHz / 16QAM



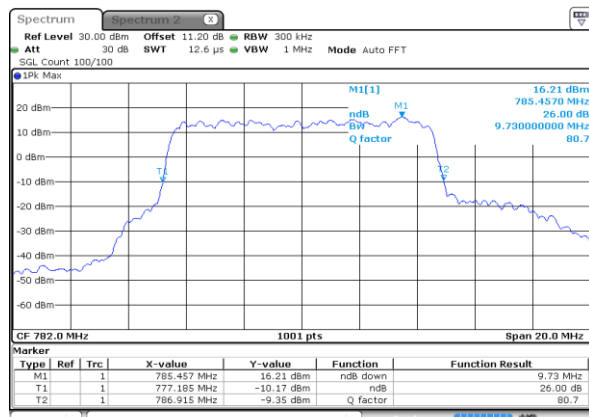
Date: 6 APR 2021 21:06:00

Middle Channel / 5MHz / 64QAM



Date: 6 APR 2021 21:00:50

Middle Channel / 10MHz / 64QAM



Date: 6 APR 2021 21:19:24

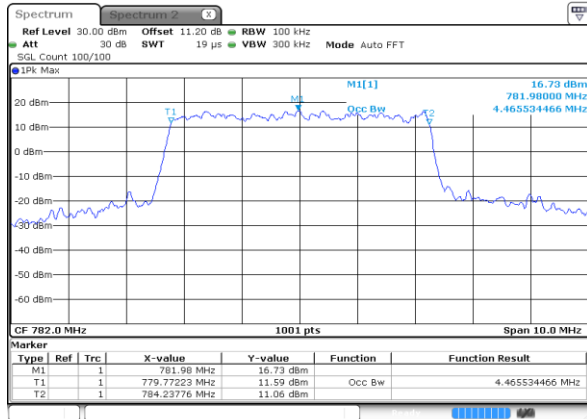
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.52	9.01	8.93	-	-	-	-
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	-	-	-	-	4.49	-	8.99	-	-	-	-	-

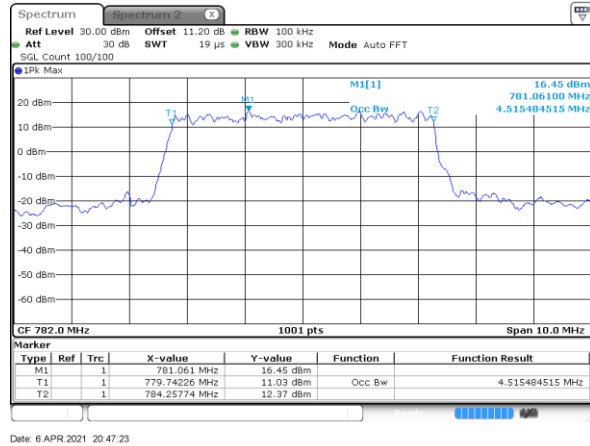


LTE Band 13

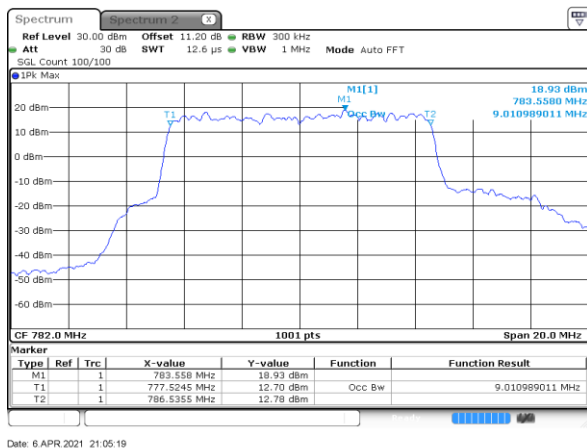
Middle Channel / 5MHz / QPSK



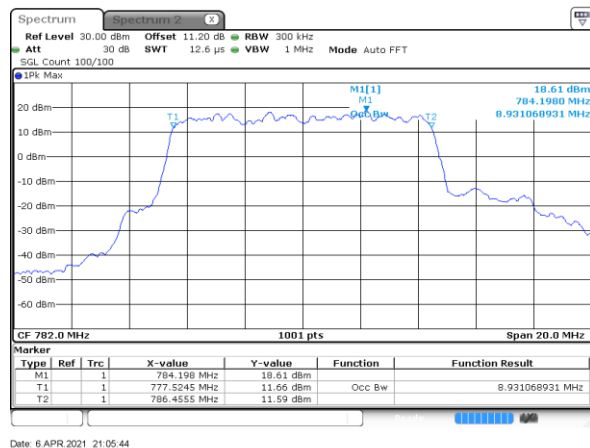
Middle Channel / 5MHz / 16QAM



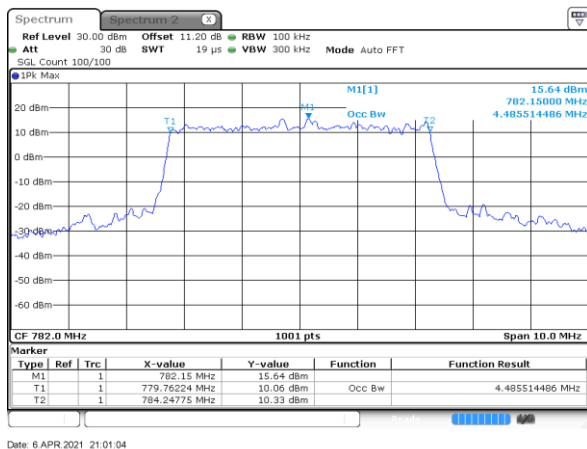
Middle Channel / 10MHz / QPSK



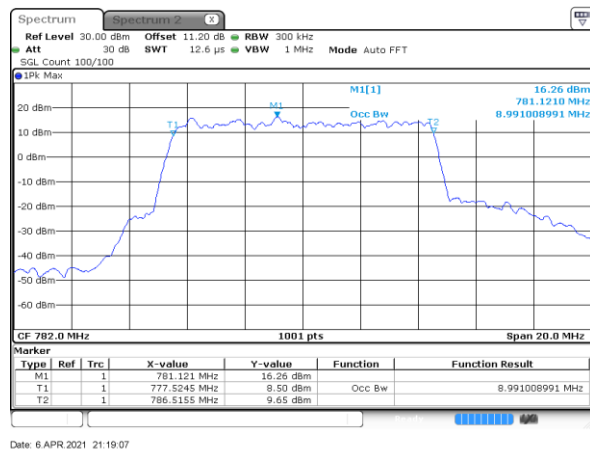
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

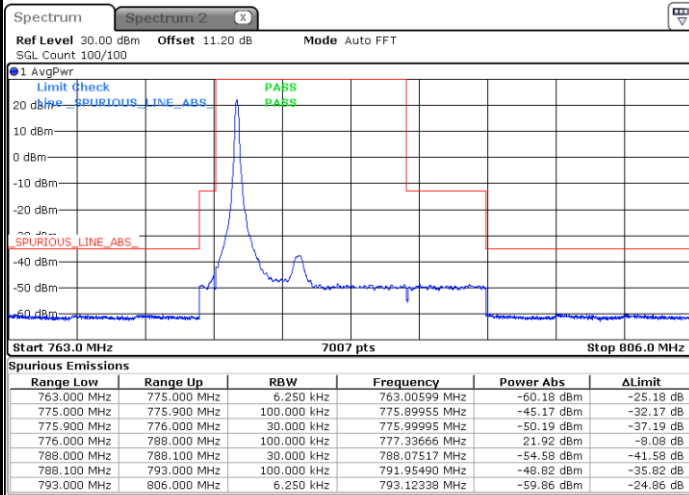




Conducted Band Edge

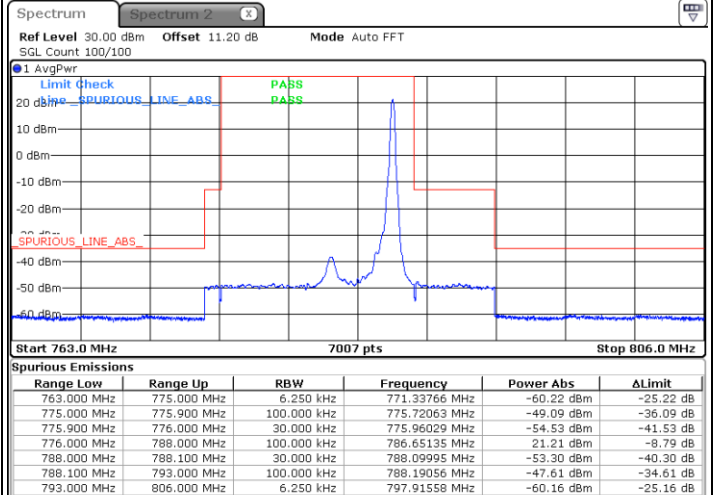
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



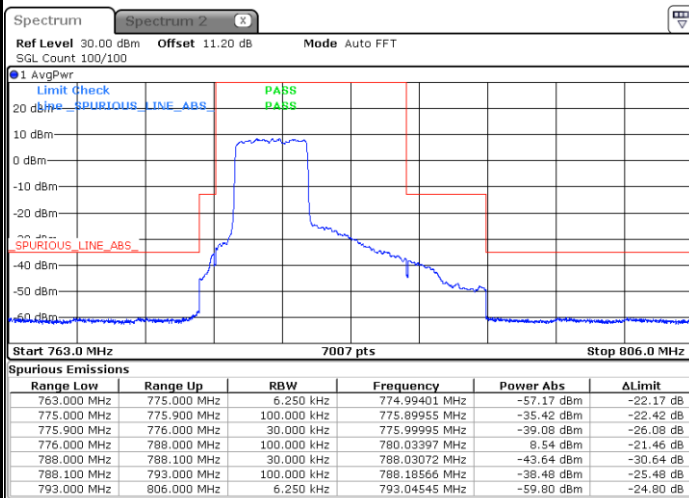
Date: 6 APR 2021 20:44:21

Highest Band Edge / 1 RB



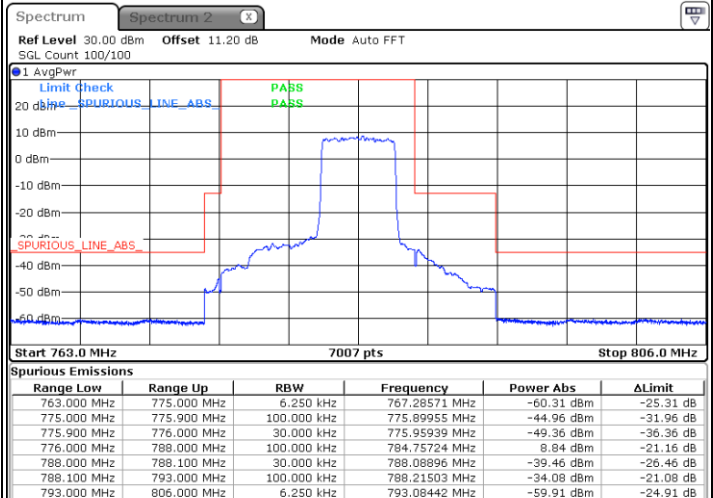
Date: 6 APR 2021 20:55:27

Lowest Band Edge / Full RB



Date: 6 APR 2021 20:38:36

Highest Band Edge / Full RB

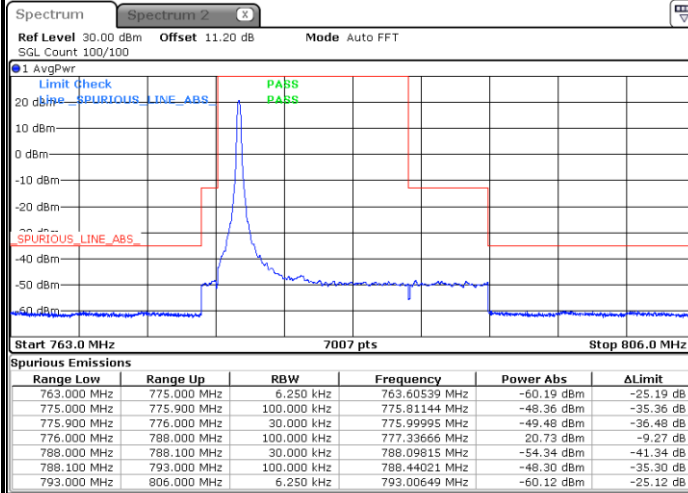


Date: 6 APR 2021 20:49:43



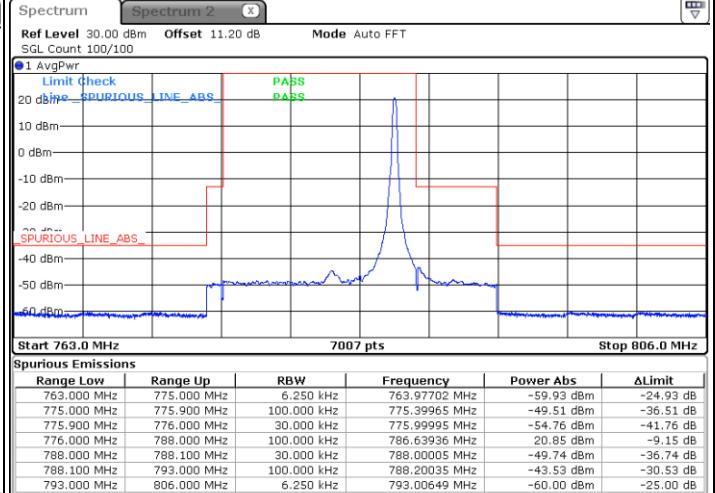
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



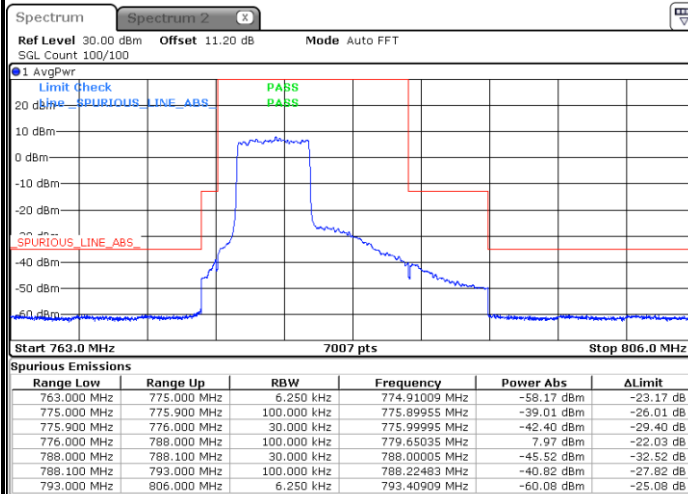
Date: 6 APR 2021 20:42:26

Highest Band Edge / 1 RB



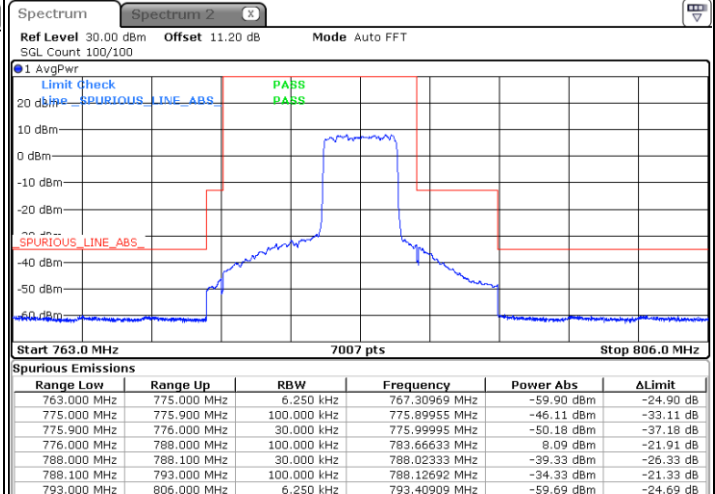
Date: 6 APR 2021 20:53:32

Lowest Band Edge / Full RB



Date: 6 APR 2021 20:40:32

Highest Band Edge / Full RB



Date: 6 APR 2021 20:51:37