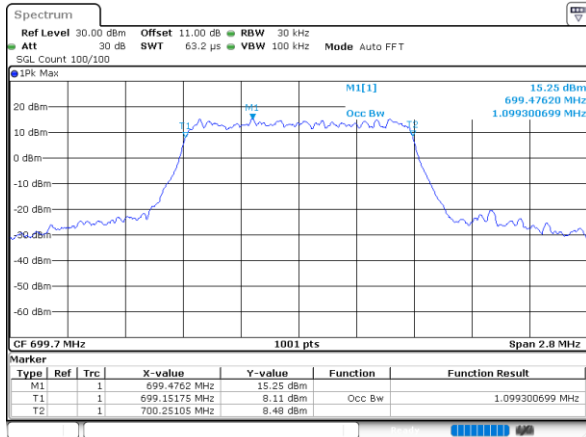


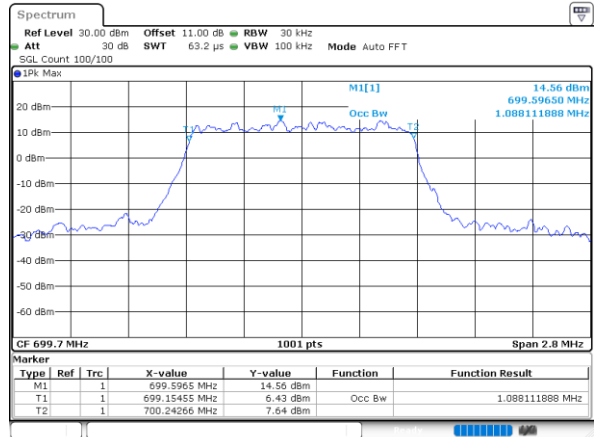


LTE Band 12

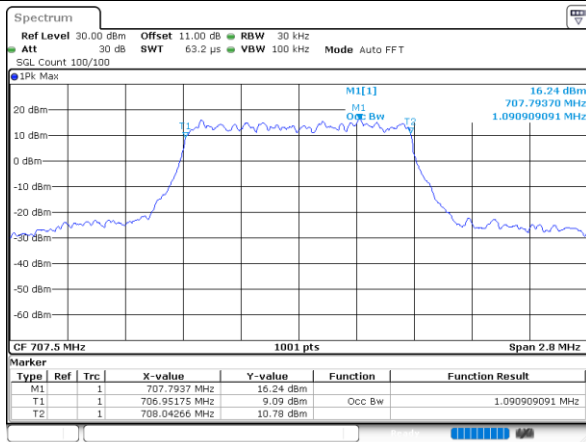
Lowest Channel / 1.4MHz / QPSK



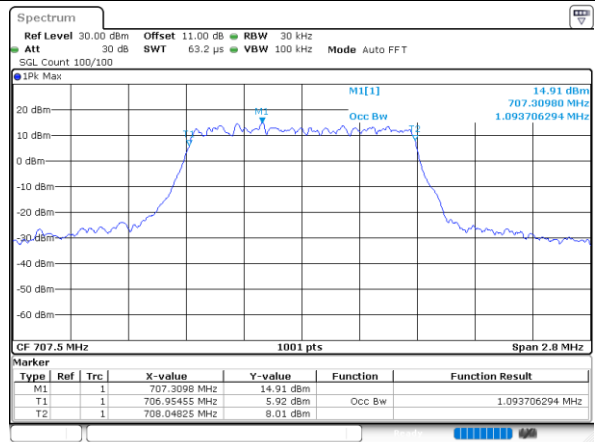
Lowest Channel / 1.4MHz / 16QAM



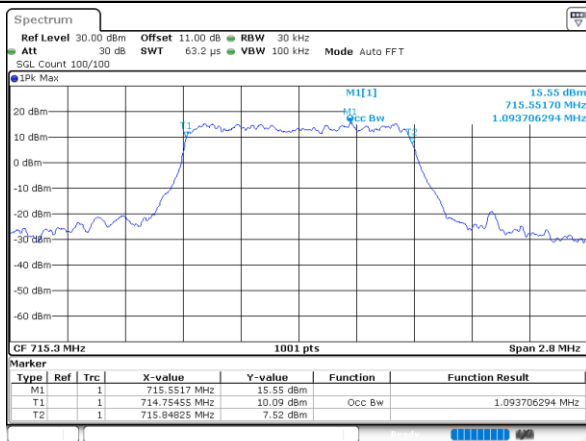
Middle Channel / 1.4MHz / QPSK



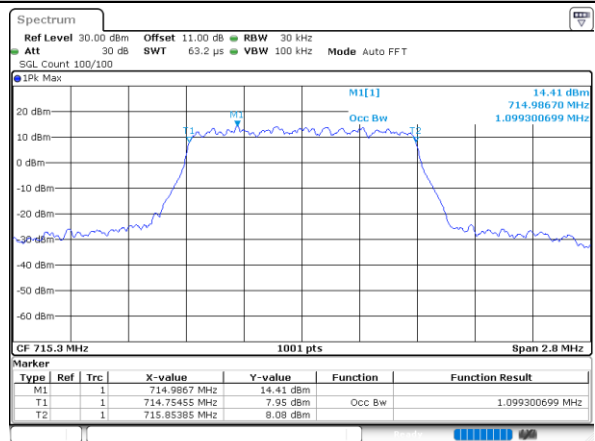
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



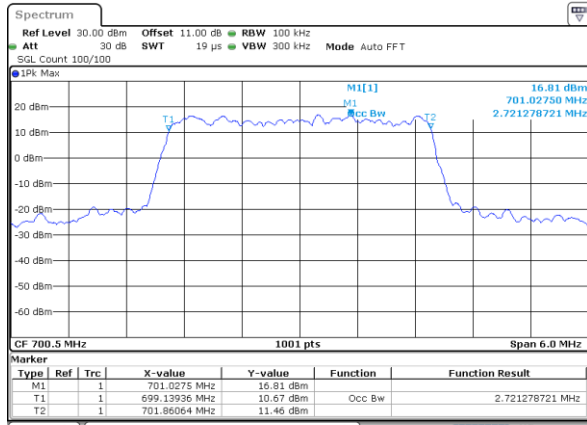
Highest Channel / 1.4MHz / 16QAM



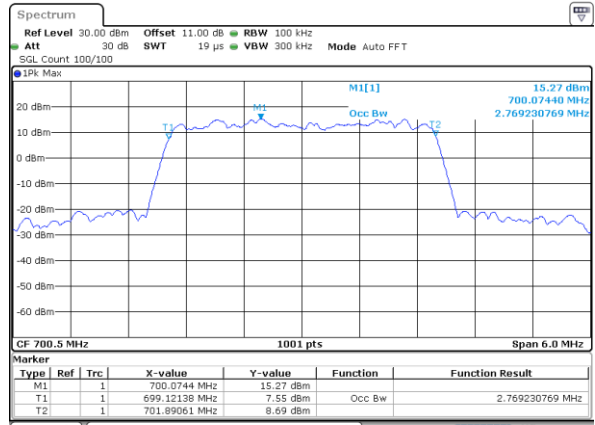


LTE Band 12

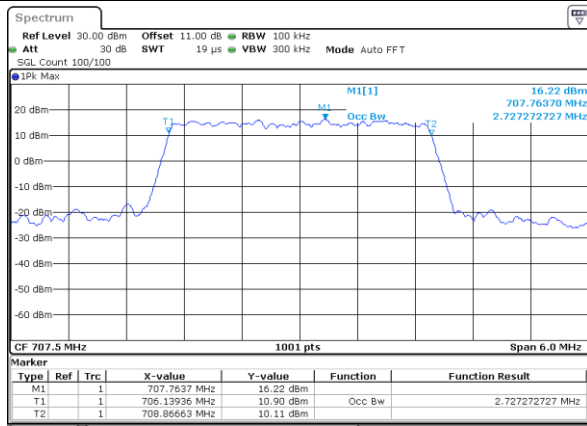
Lowest Channel / 3MHz / QPSK



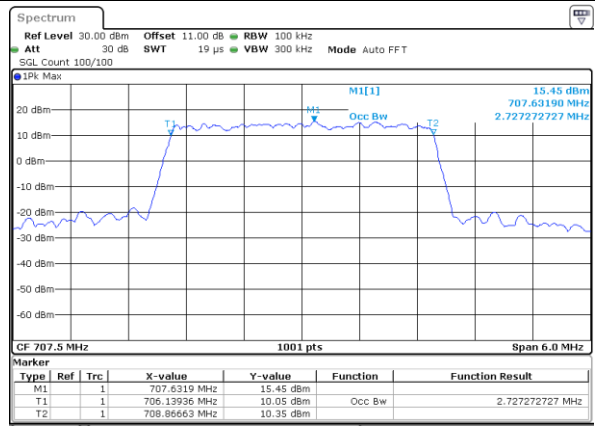
Lowest Channel / 3MHz / 16QAM



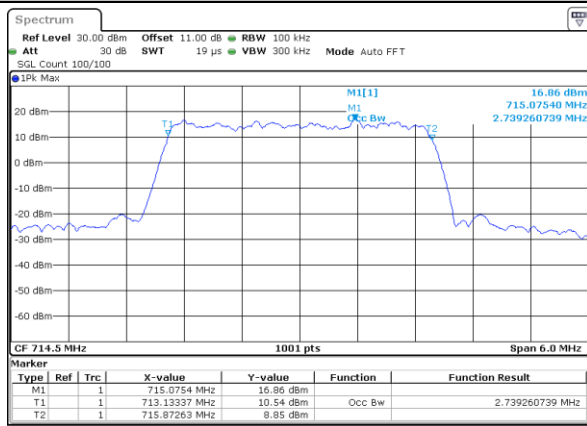
Middle Channel / 3MHz / QPSK



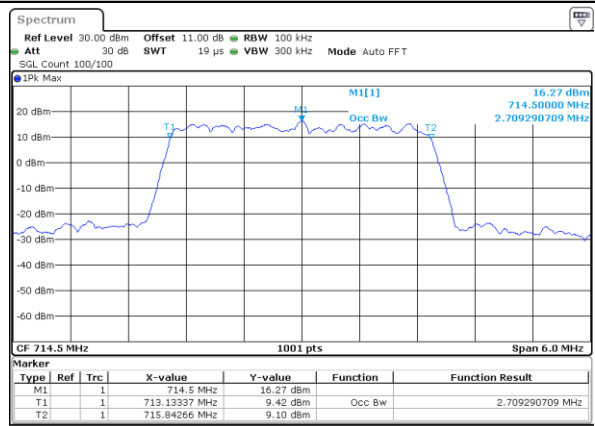
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



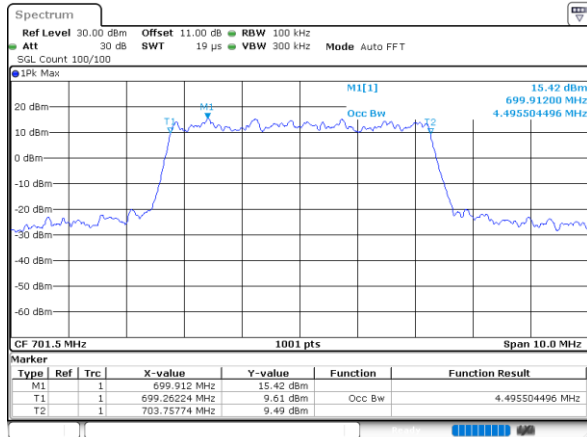
Highest Channel / 3MHz / 16QAM



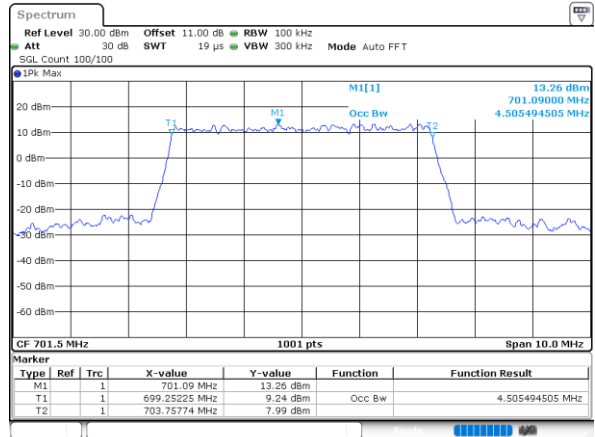


LTE Band 12

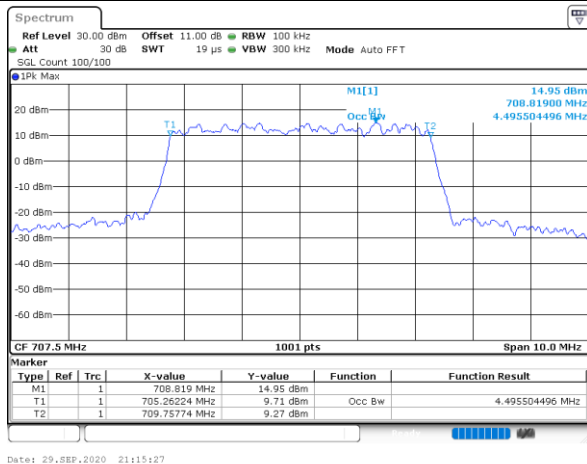
Lowest Channel / 5MHz / QPSK



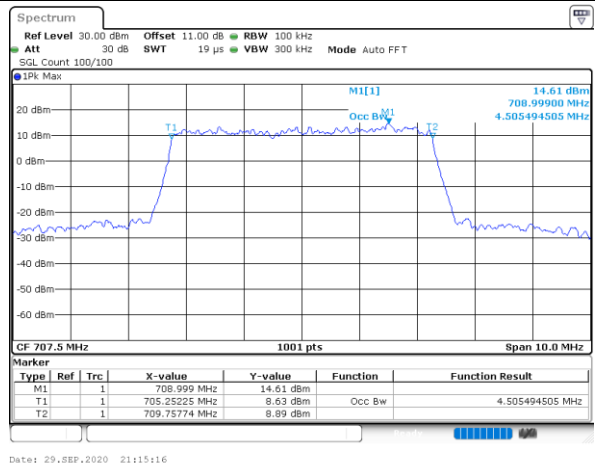
Lowest Channel / 5MHz / 16QAM



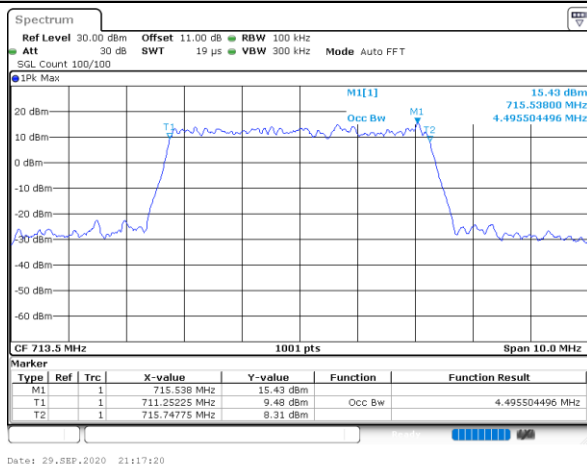
Middle Channel / 5MHz / QPSK



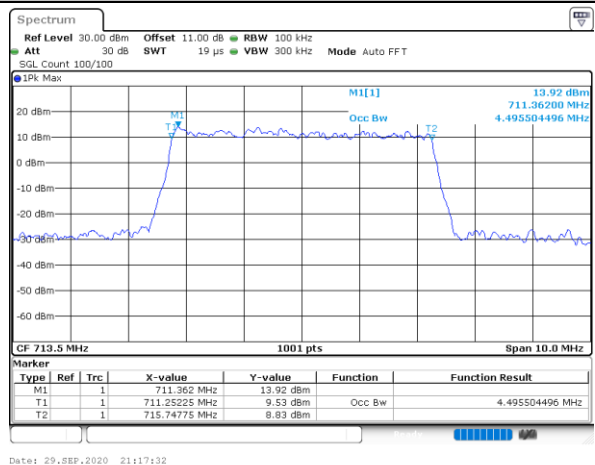
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



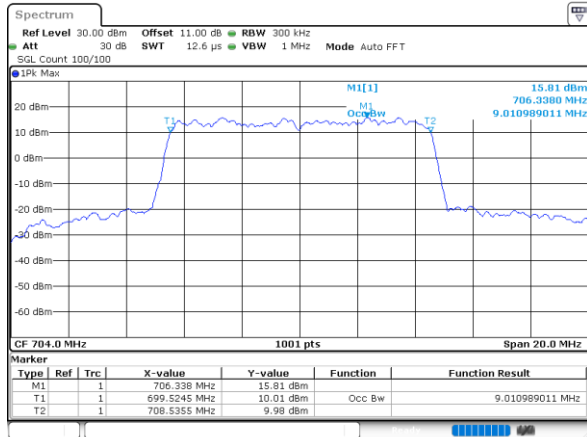
Highest Channel / 5MHz / 16QAM



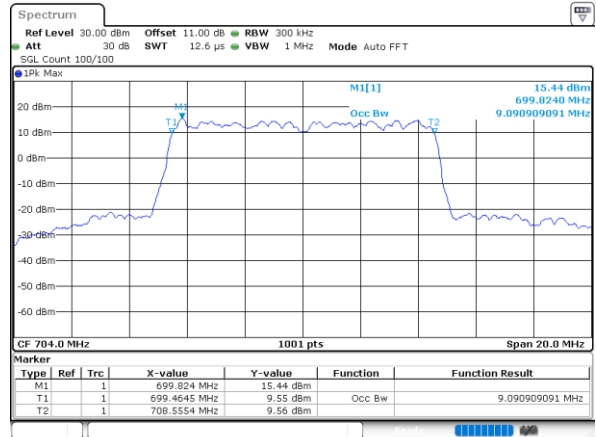


LTE Band 12

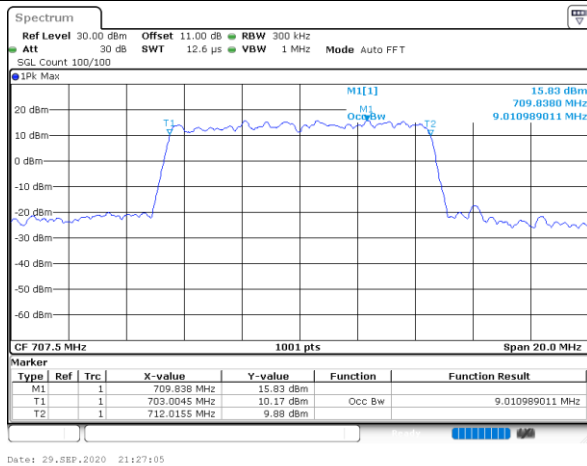
Lowest Channel / 10MHz / QPSK



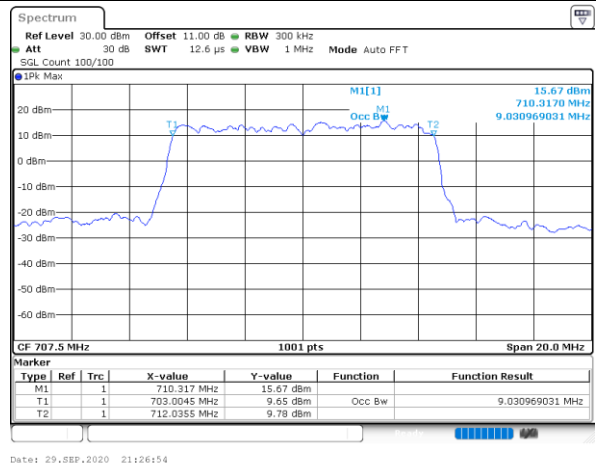
Lowest Channel / 10MHz / 16QAM



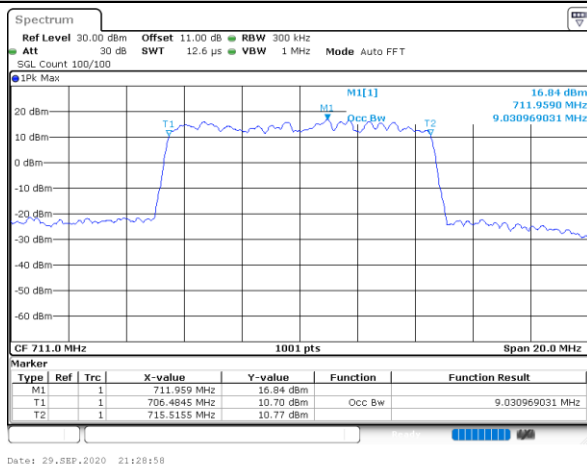
Middle Channel / 10MHz / QPSK



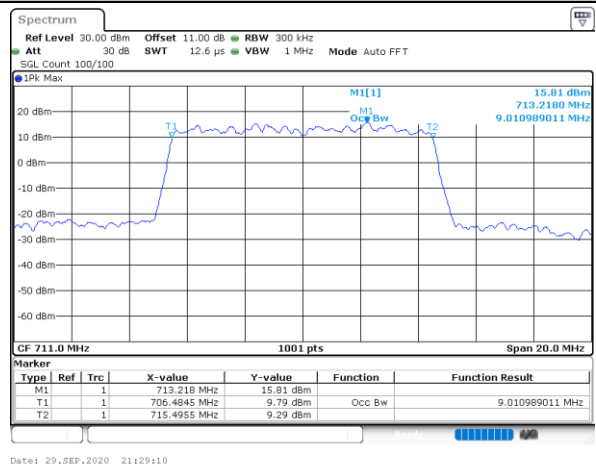
Middle Channel / 10MHz / 16QAM

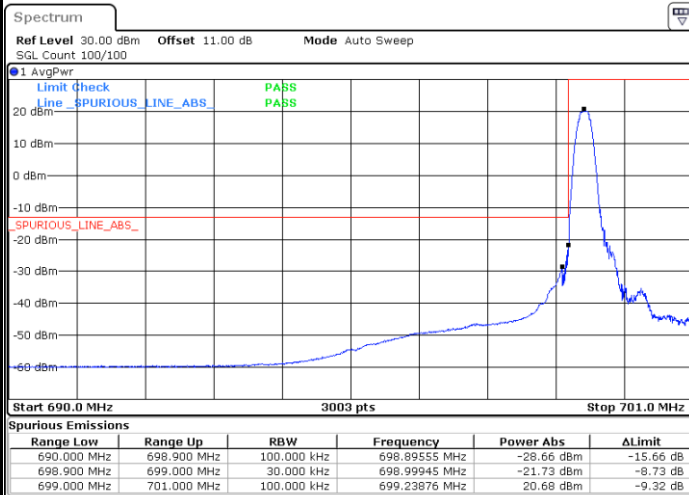
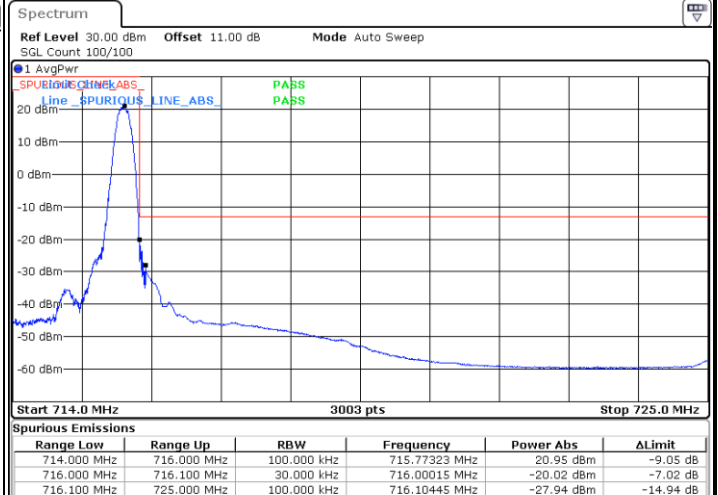
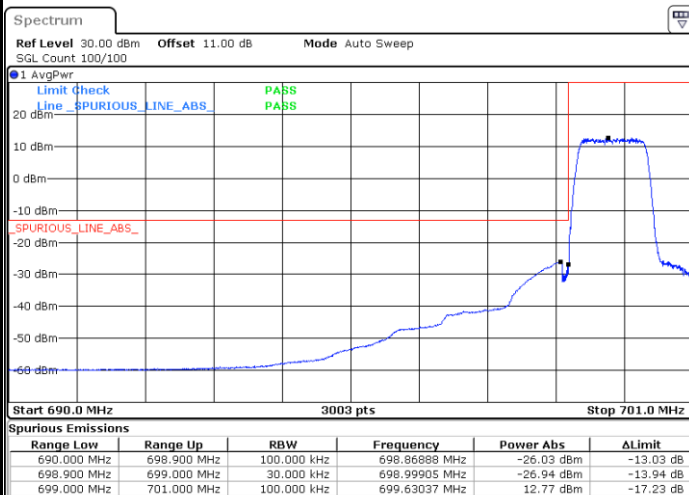
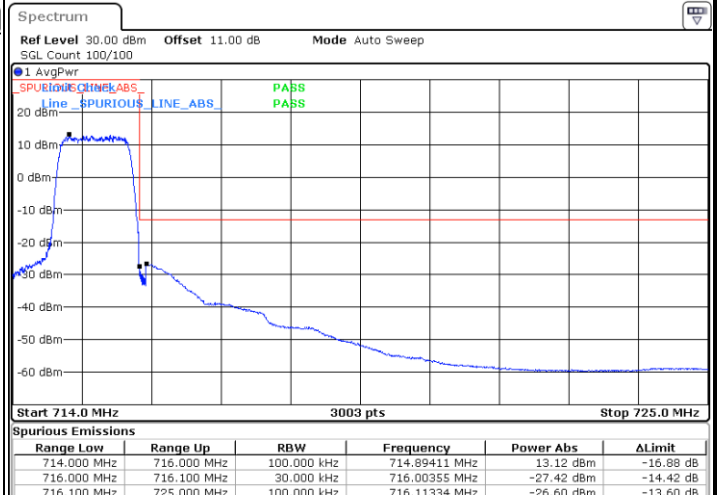


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

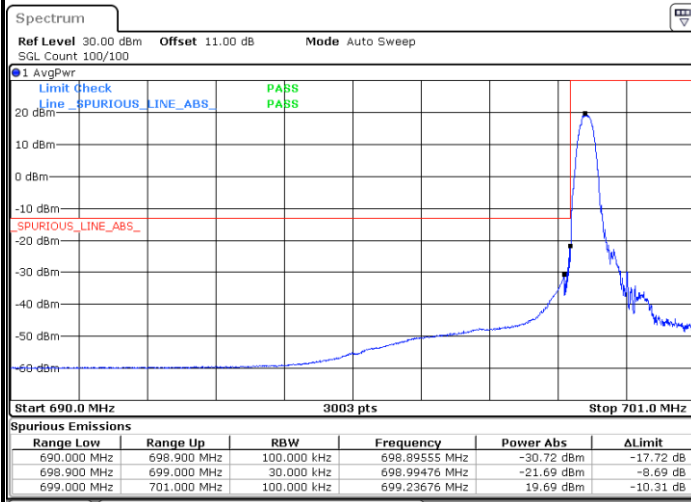


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

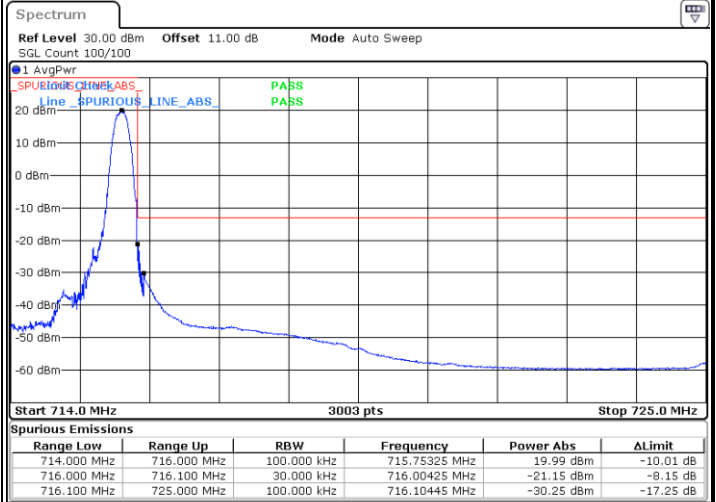


LTE Band 12 / 1.4MHz / 16QAM

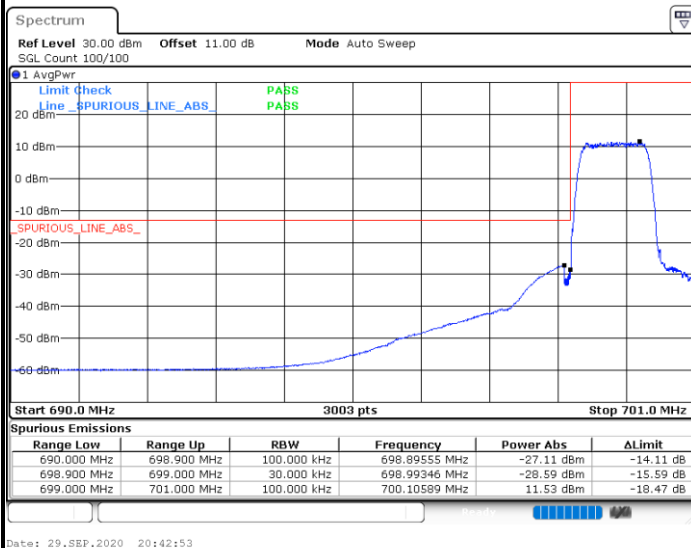
Lowest Band Edge / 1 RB



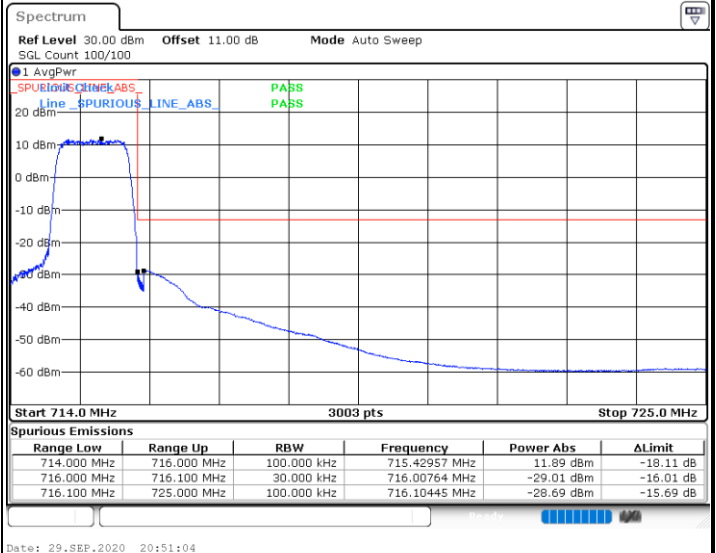
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



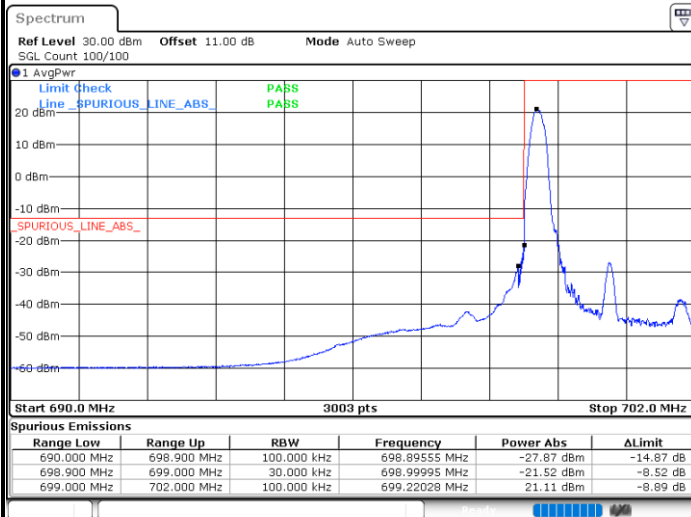
Highest Band Edge / Full RB



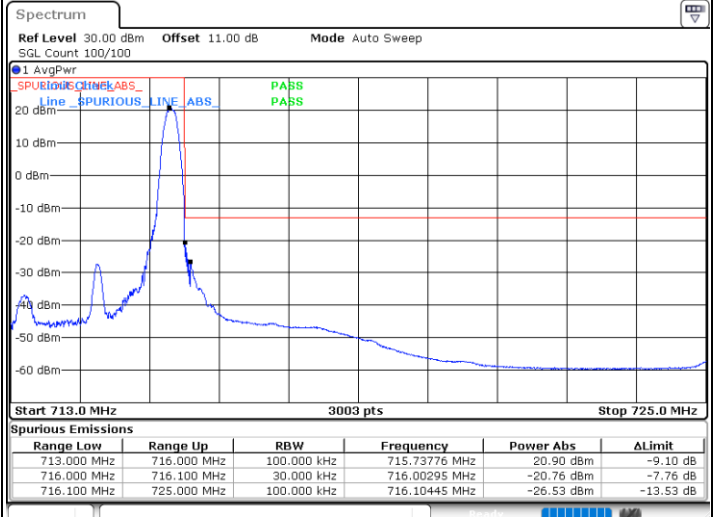


LTE Band 12 / 3MHz / QPSK

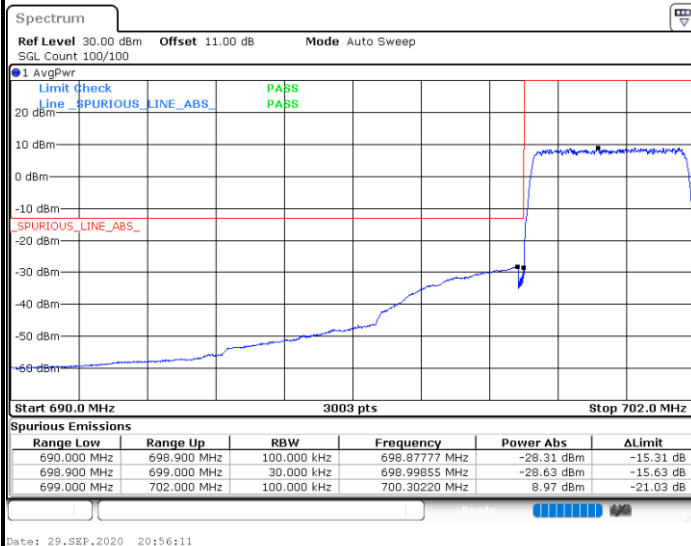
Lowest Band Edge / 1RB



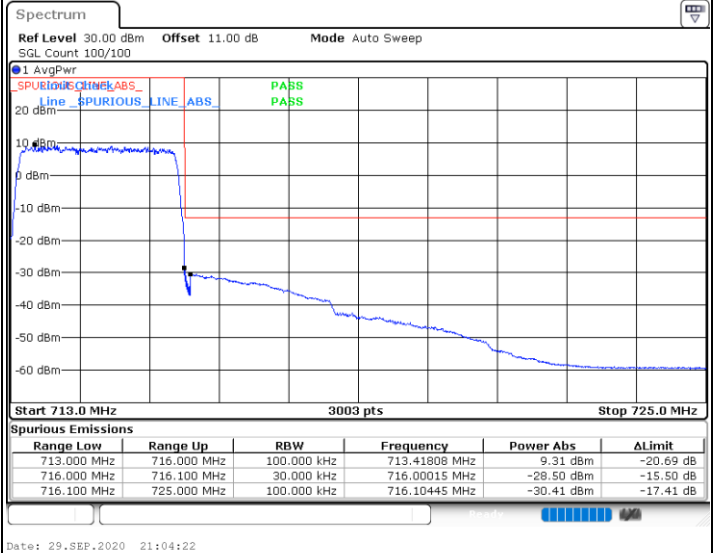
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



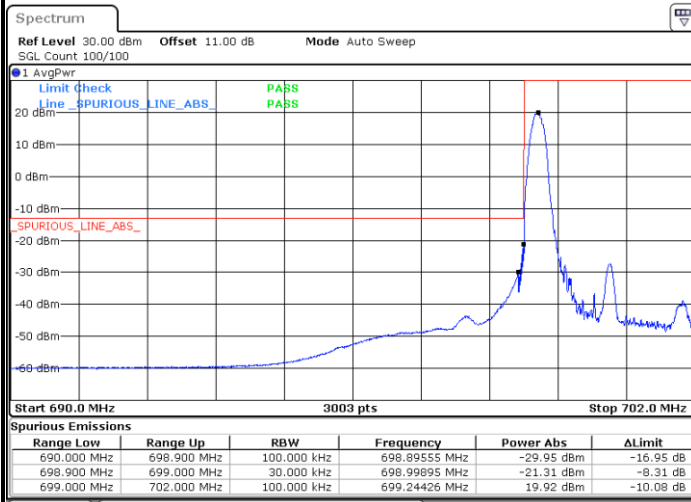
Highest Band Edge / Full RB



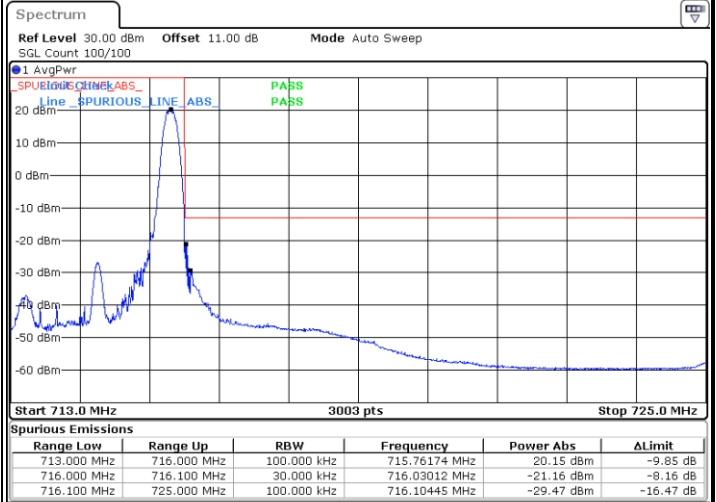


LTE Band 12 / 3MHz / 16QAM

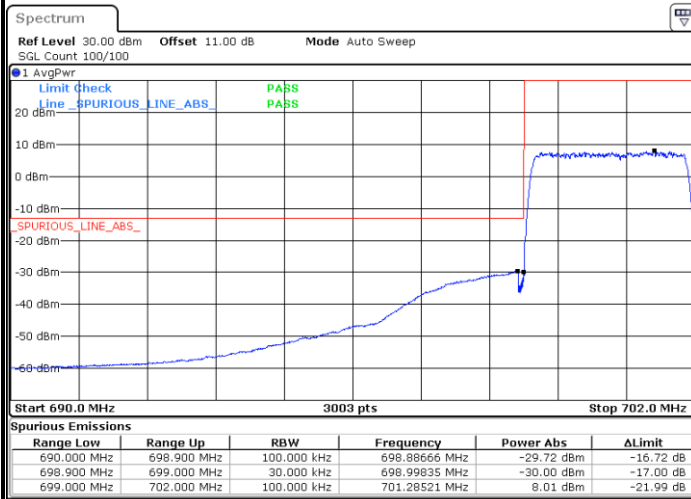
Lowest Band Edge / 1 RB



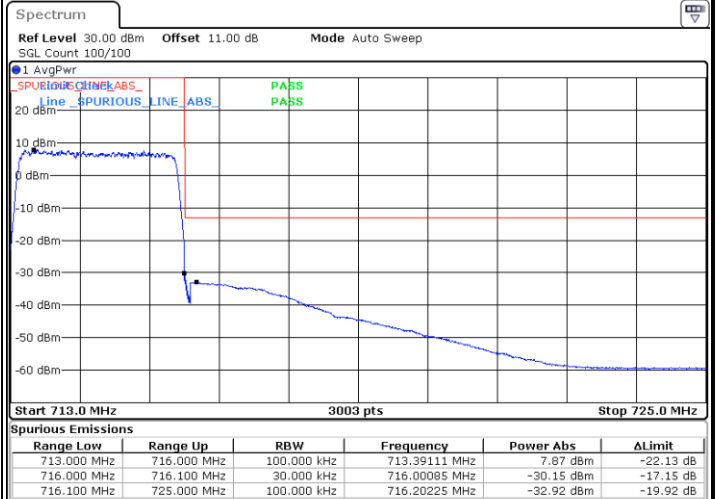
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



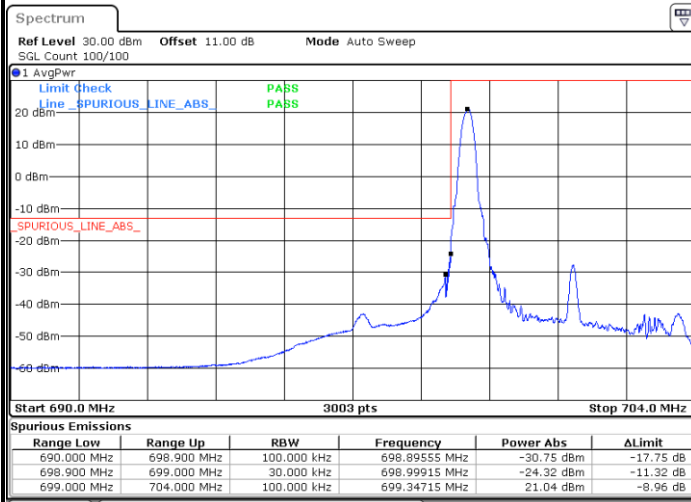
Highest Band Edge / Full RB



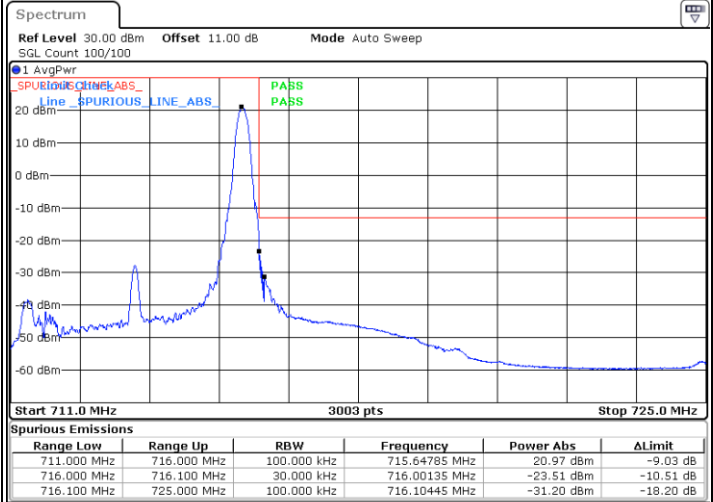


LTE Band 12 / 5MHz / QPSK

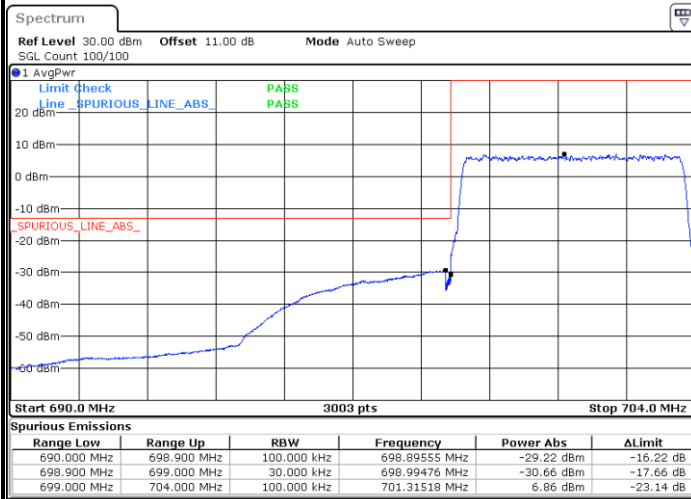
Lowest Band Edge / 1 RB



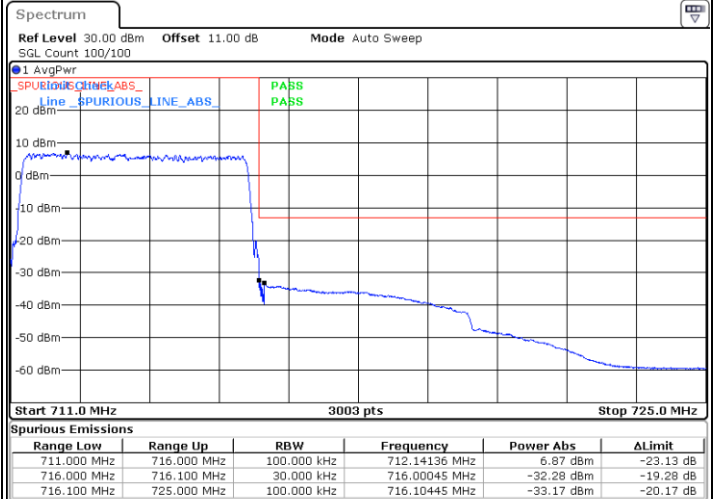
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



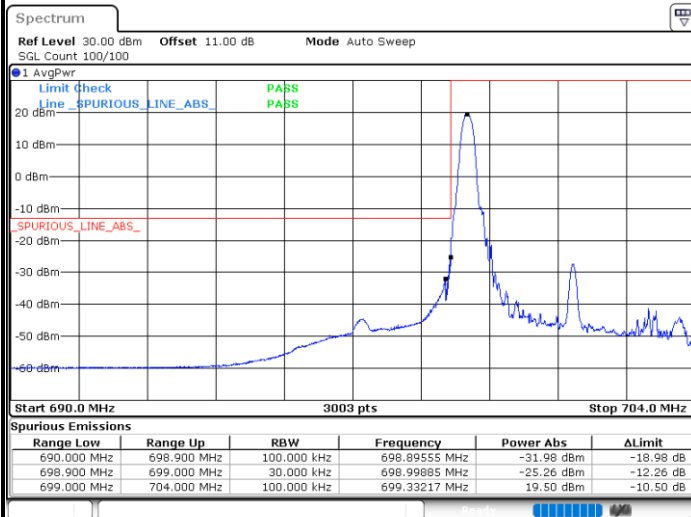
Highest Band Edge / Full RB



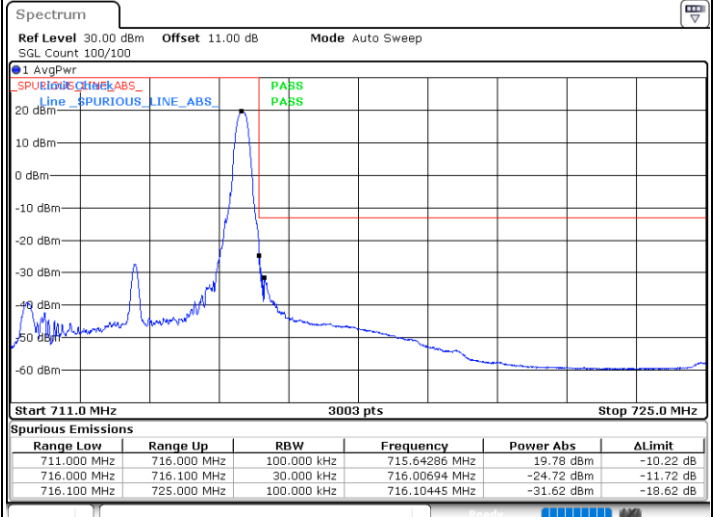


LTE Band 12 / 5MHz / 16QAM

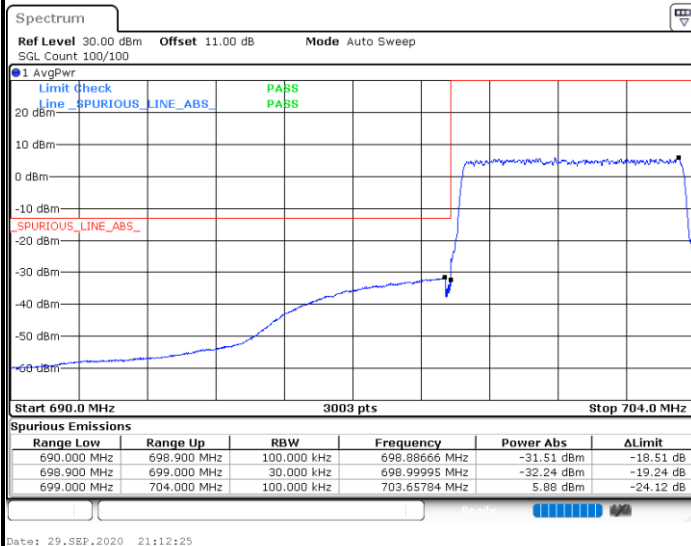
Lowest Band Edge / 1RB



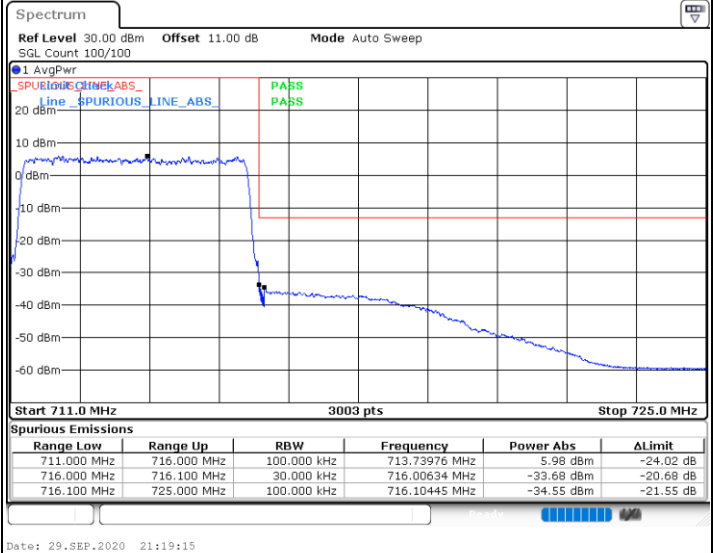
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



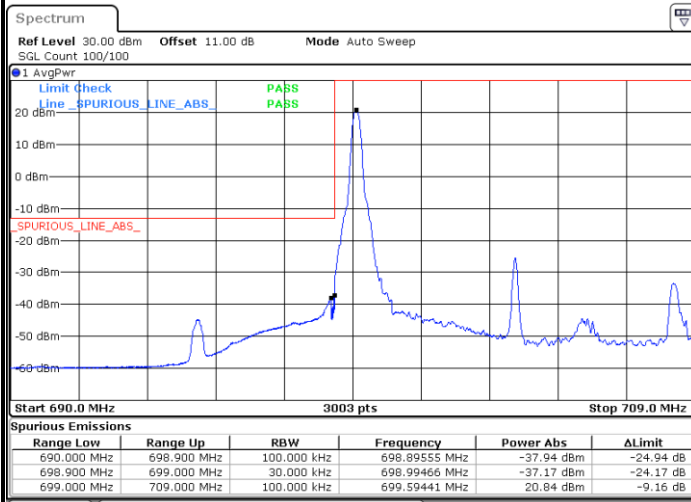
Highest Band Edge / Full RB



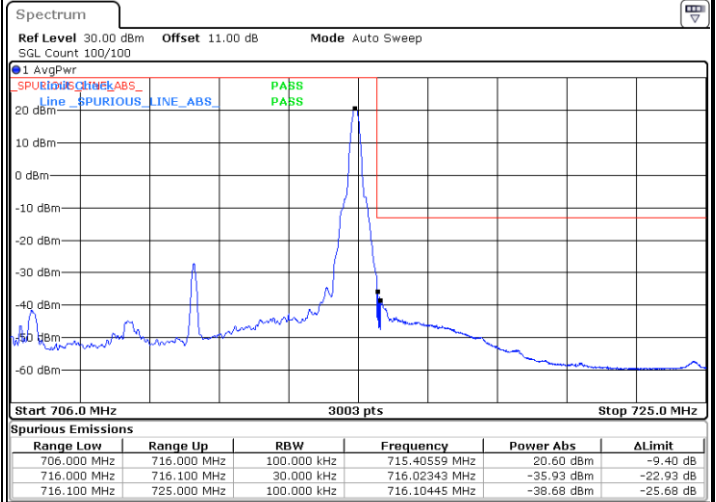


LTE Band 12 / 10MHz / QPSK

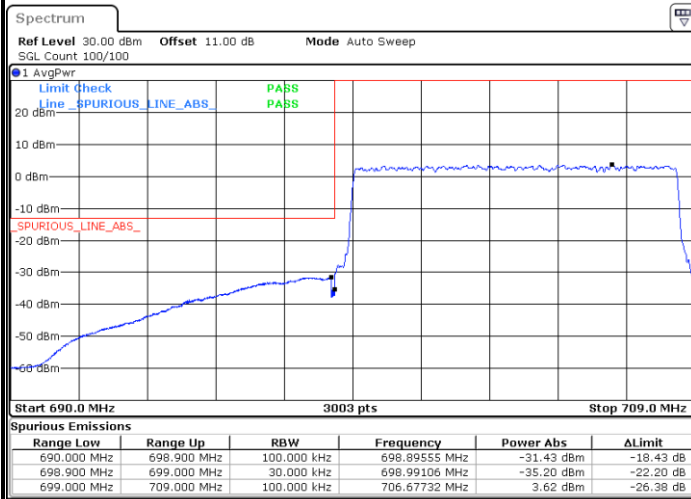
Lowest Band Edge / 1 RB



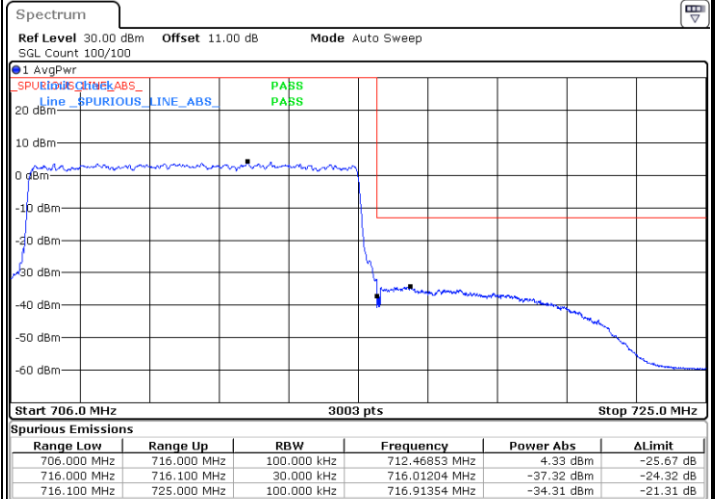
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



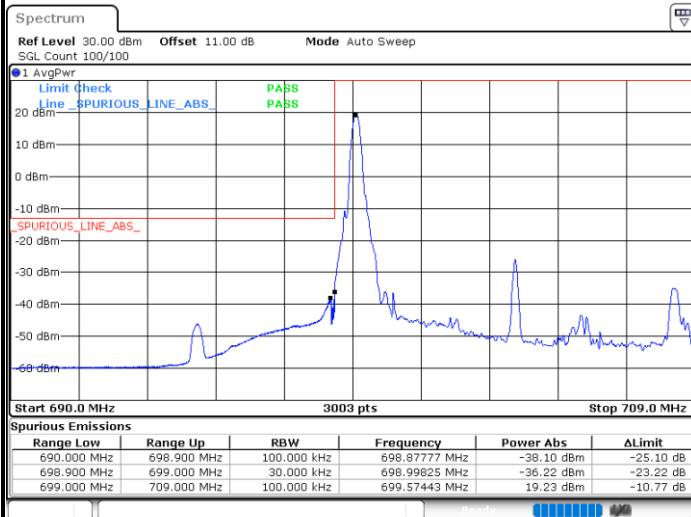
Highest Band Edge / Full RB



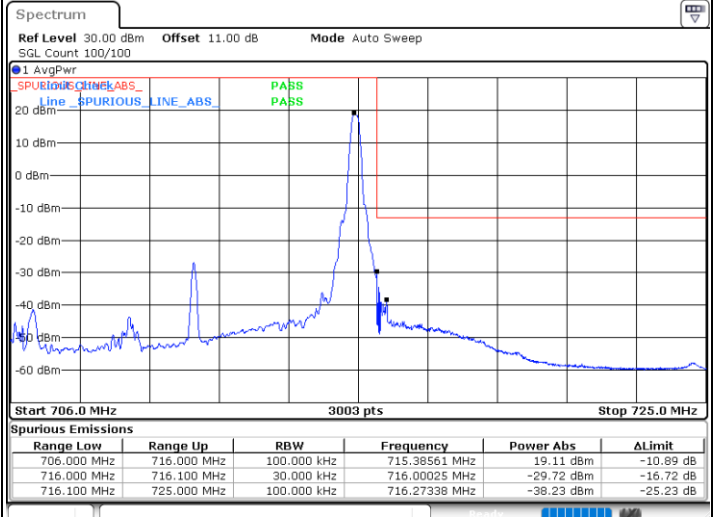


LTE Band 12 / 10MHz / 16QAM

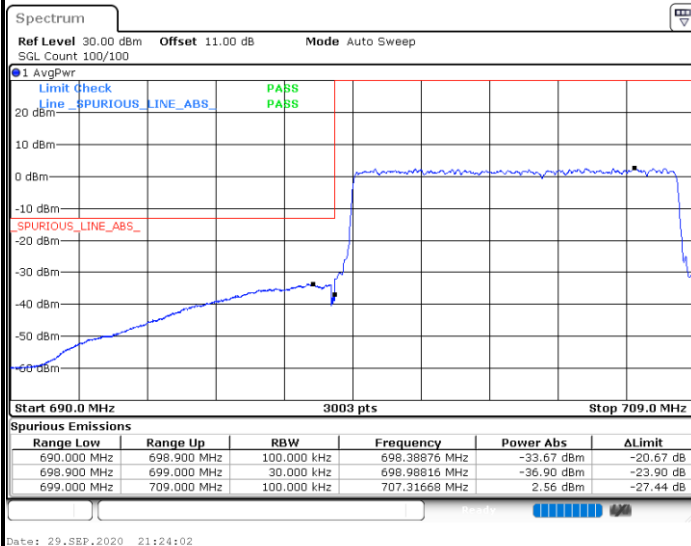
Lowest Band Edge / 1 RB



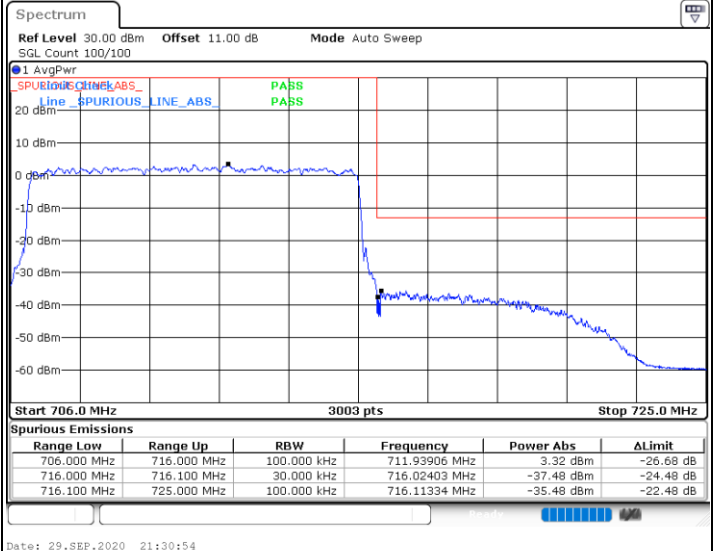
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

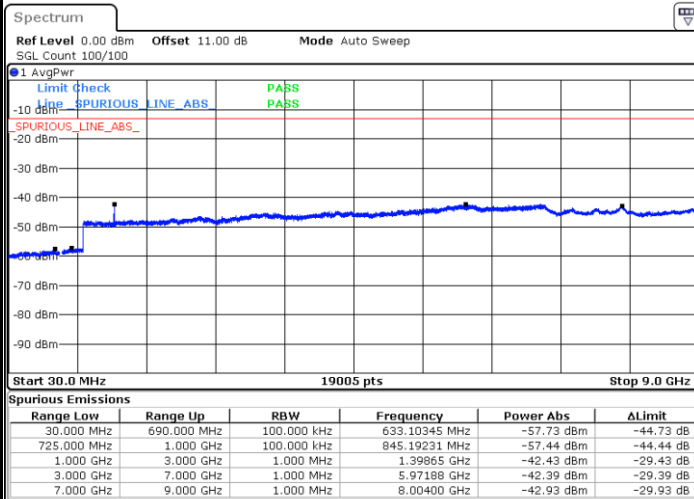




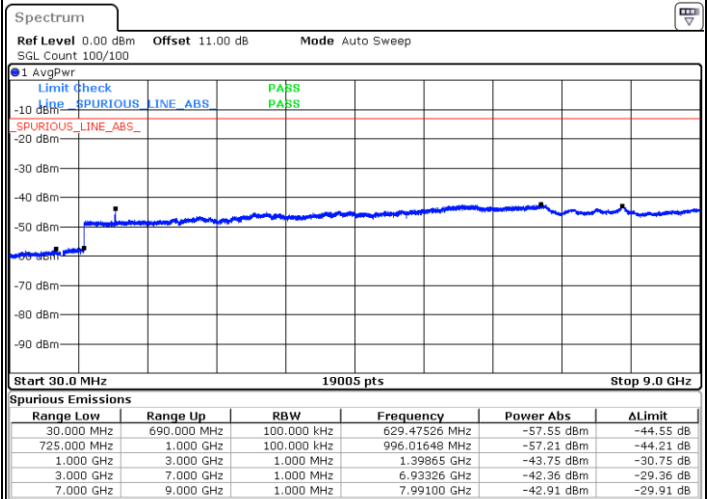
Conducted Spurious Emission

LTE Band 12 / 1.4MHz

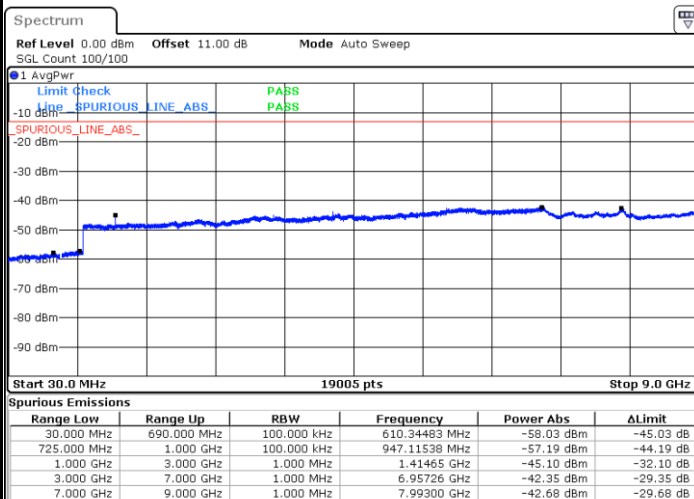
Lowest Channel / QPSK



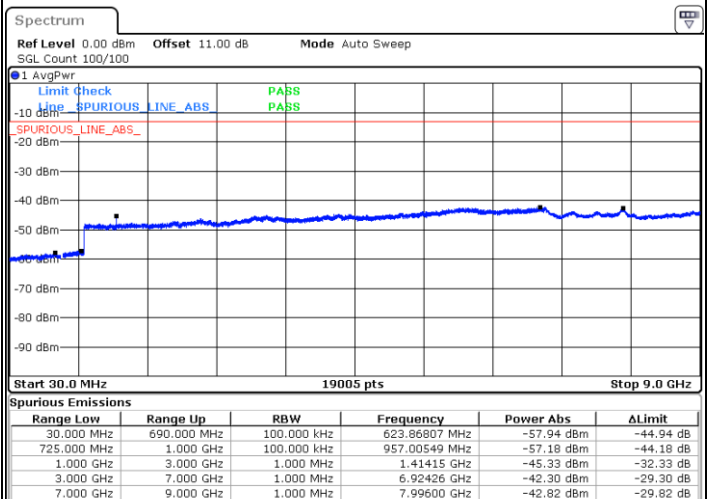
Lowest Channel / 16QAM



Middle Channel / QPSK



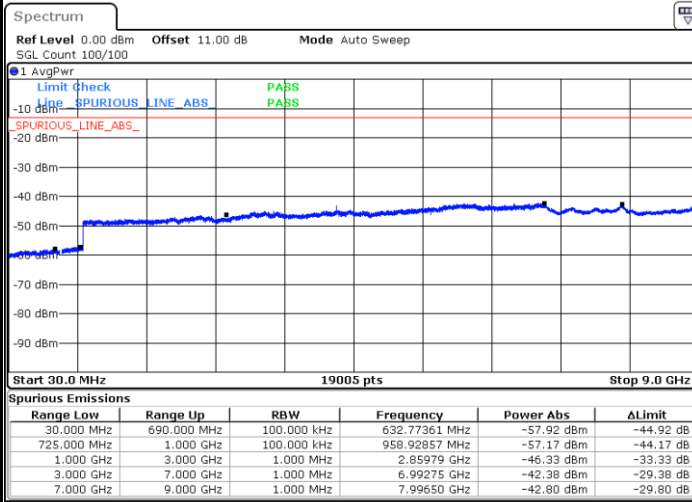
Middle Channel / 16QAM





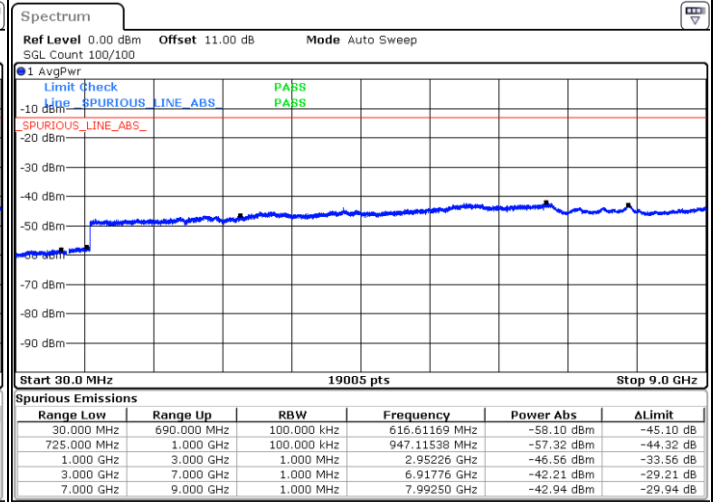
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 29.SEP.2020 20:53:44

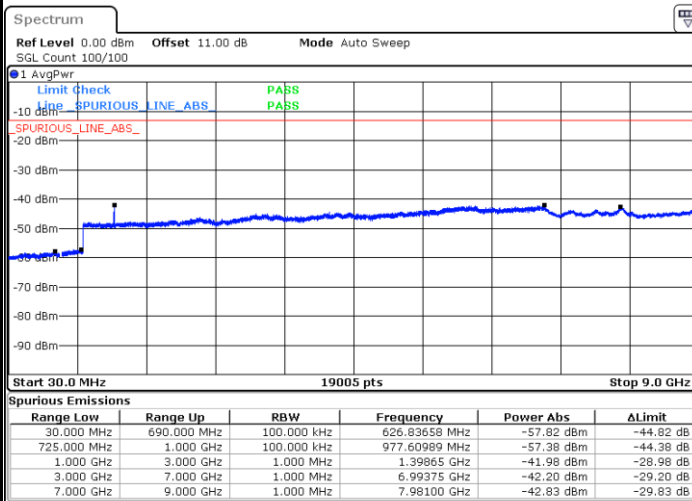
Highest Channel / 16QAM



Date: 29.SEP.2020 20:54:24

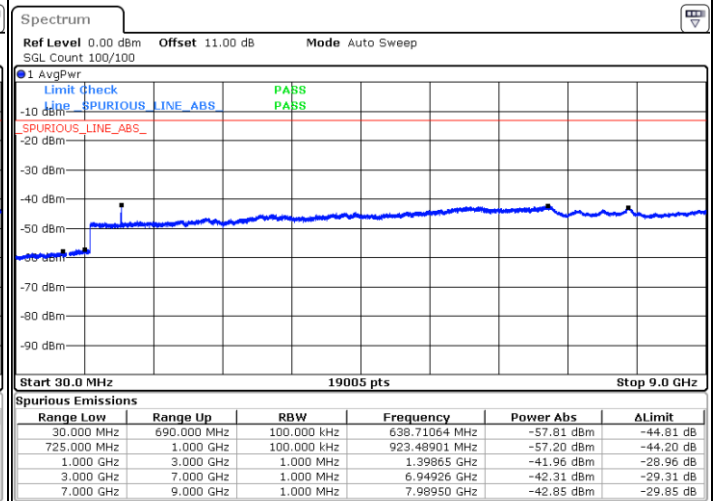
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 29.SEP.2020 20:59:51

Lowest Channel / 16QAM

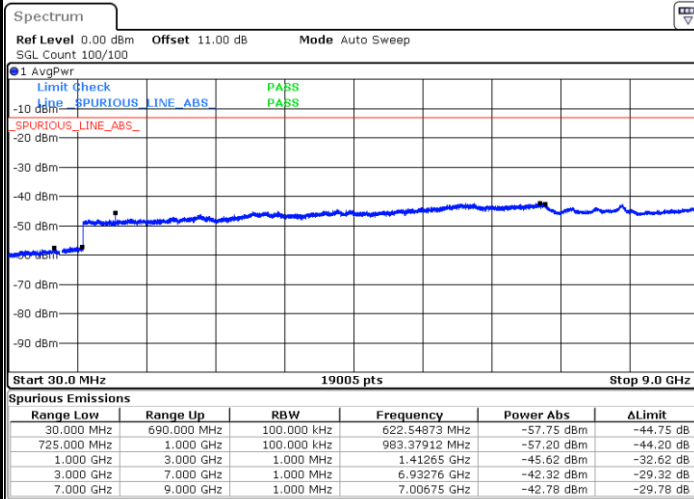


Date: 29.SEP.2020 21:00:31



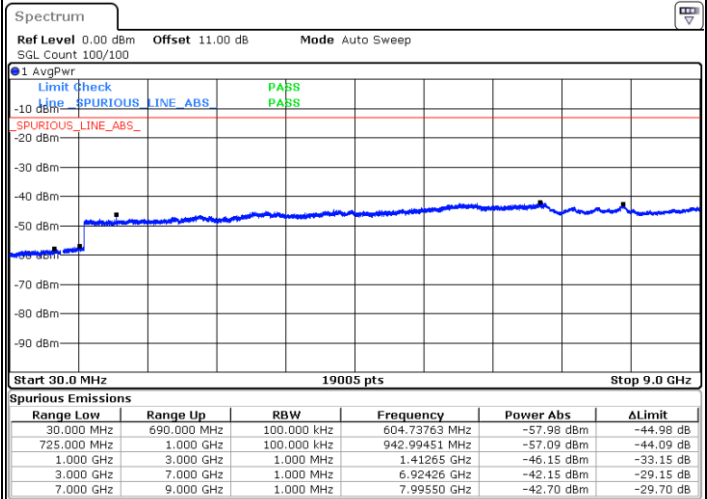
LTE Band 12 / 3MHz

Middle Channel / QPSK



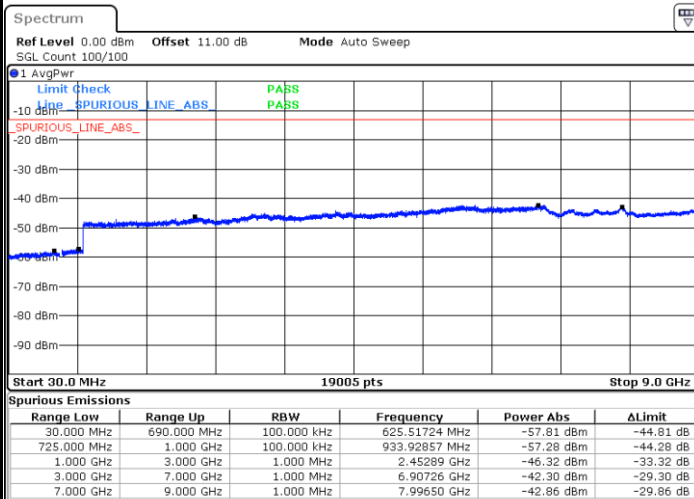
Date: 29.SEP.2020 21:02:36

Middle Channel / 16QAM



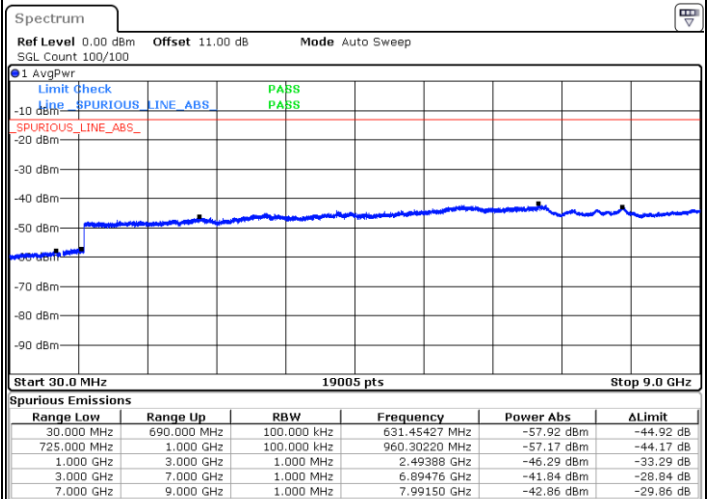
Date: 29.SEP.2020 21:01:56

Highest Channel / QPSK



Date: 29.SEP.2020 21:08:02

Highest Channel / 16QAM

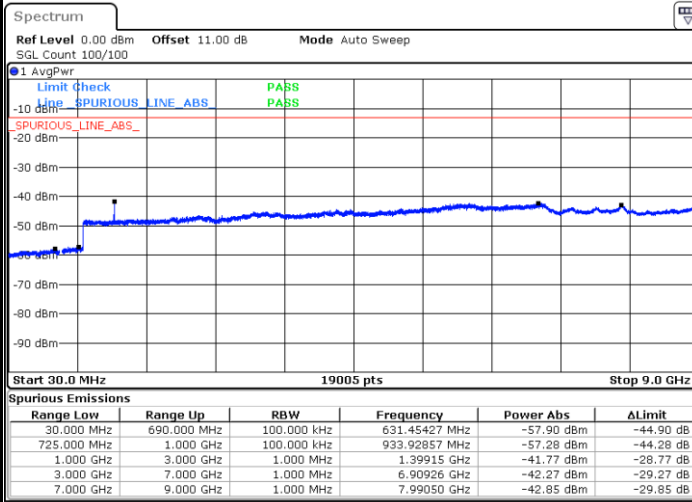


Date: 29.SEP.2020 21:08:42



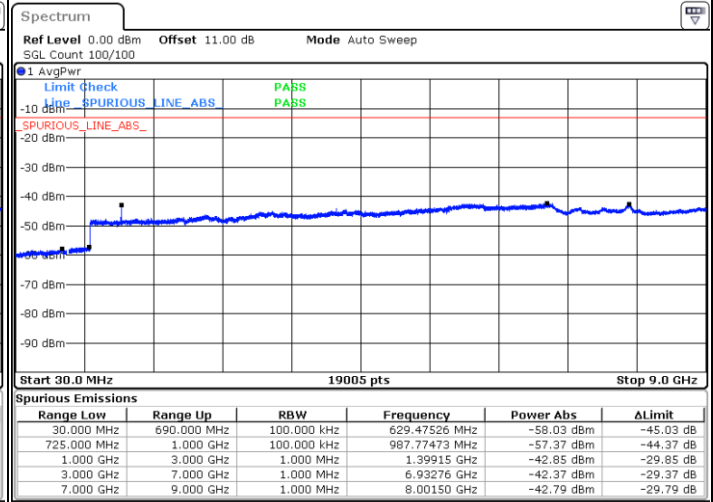
LTE Band 12 / 5MHz

Lowest Channel / QPSK



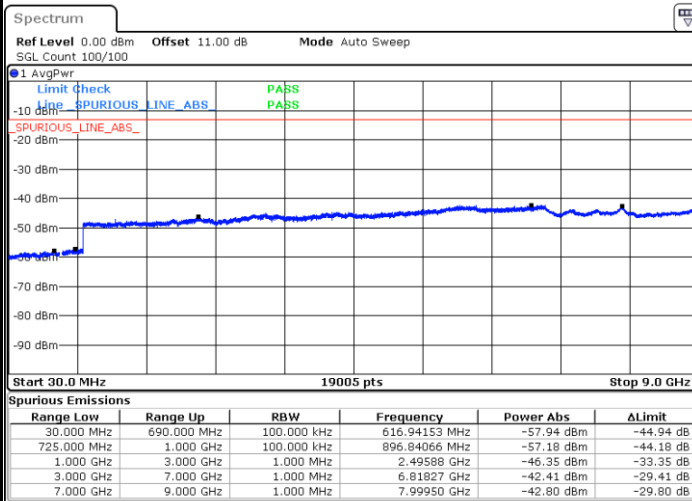
Date: 29.SEP.2020 21:14:25

Lowest Channel / 16QAM



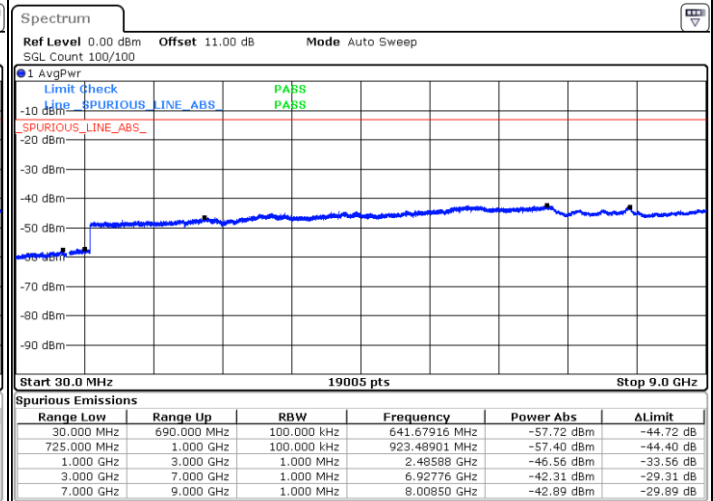
Date: 29.SEP.2020 21:15:05

Middle Channel / QPSK



Date: 29.SEP.2020 21:17:09

Middle Channel / 16QAM

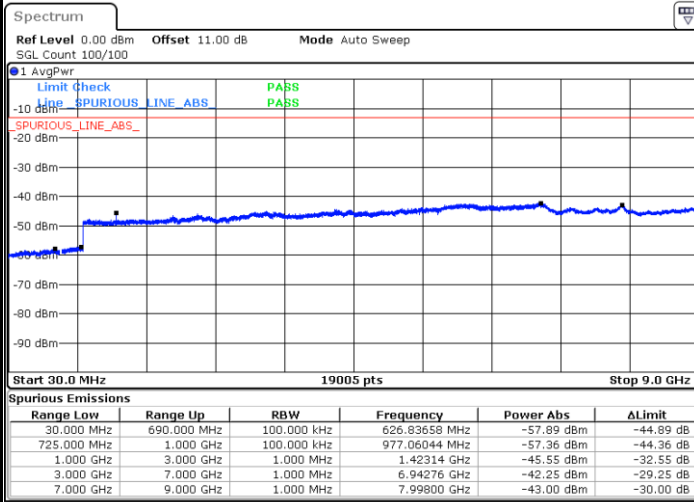


Date: 29.SEP.2020 21:16:29



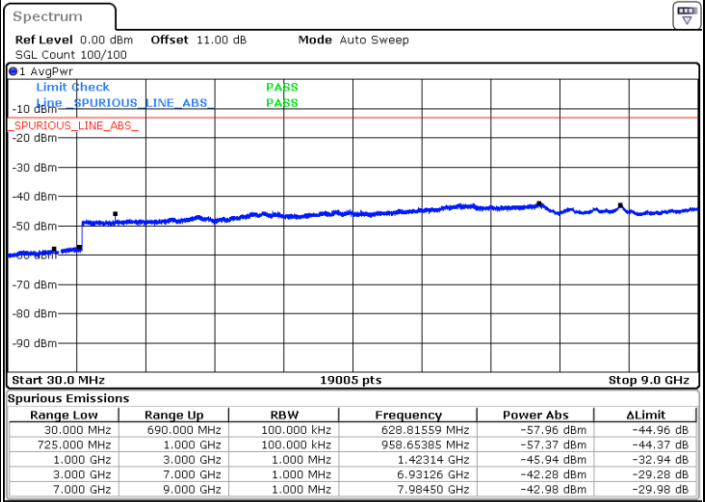
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 29.SEP.2020 21:21:55

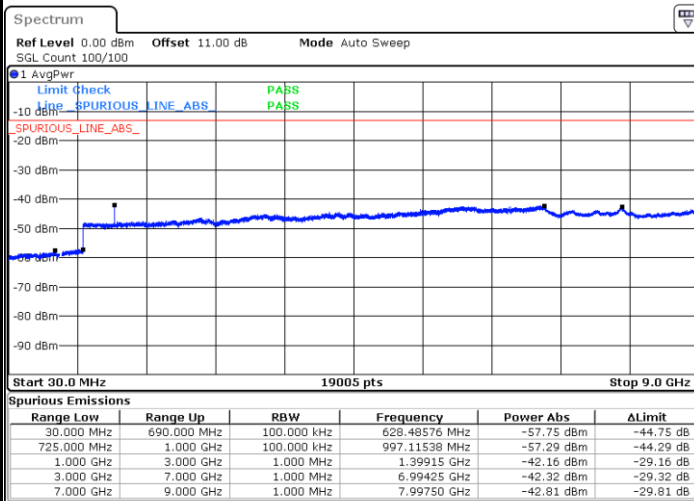
Highest Channel / 16QAM



Date: 29.SEP.2020 21:21:15

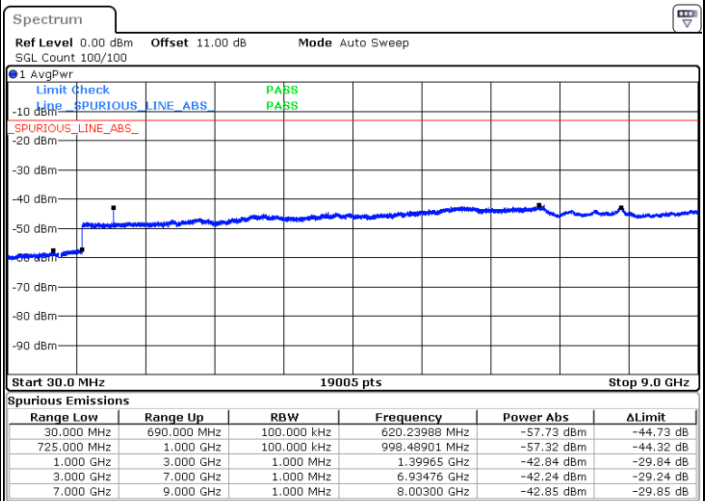
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 29.SEP.2020 21:26:03

Lowest Channel / 16QAM

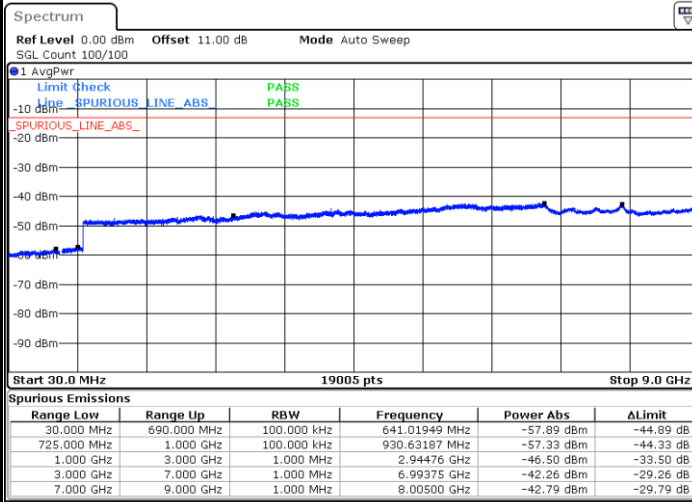


Date: 29.SEP.2020 21:26:43



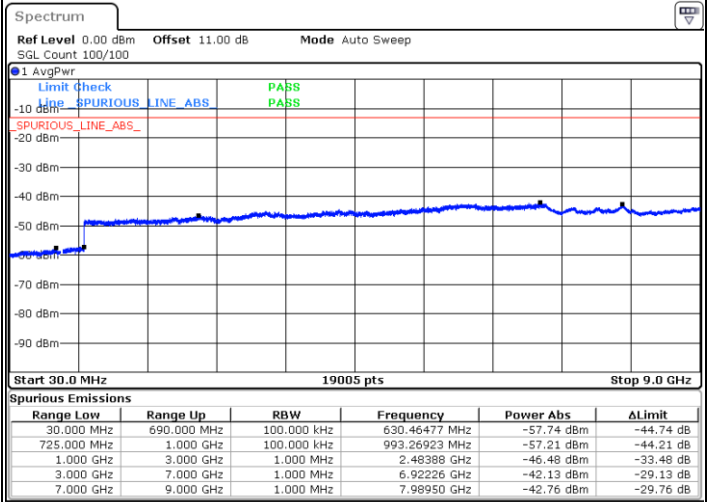
LTE Band 12 / 10MHz

Middle Channel / QPSK



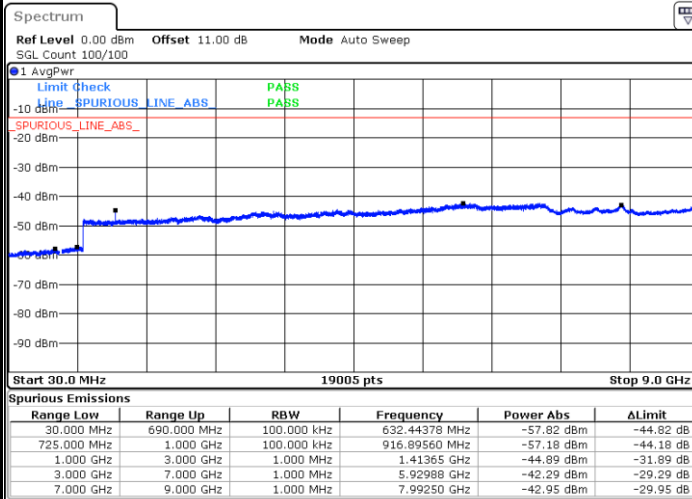
Date: 29.SEP.2020 21:28:47

Middle Channel / 16QAM



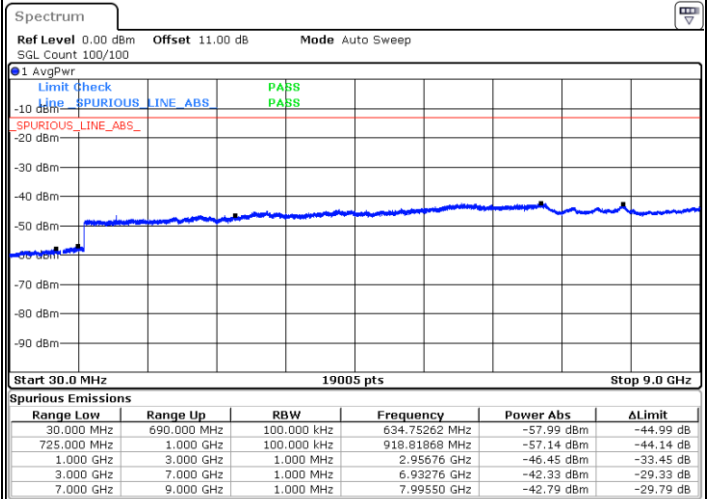
Date: 29.SEP.2020 21:28:07

Highest Channel / QPSK



Date: 29.SEP.2020 21:32:54

Highest Channel / 16QAM



Date: 29.SEP.2020 21:33:34

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	0.0127	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0113	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0127	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0110	
-20	Normal Voltage	0.0105	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =7.2 V. ; Battery End Point (BEP) =7.0 V. ; Maximum Voltage =8.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

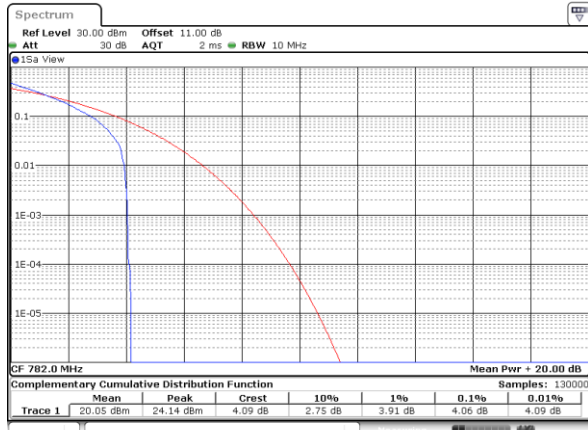
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.06	5.19	4.87	6.20	
Highest CH	-	-	-	-	

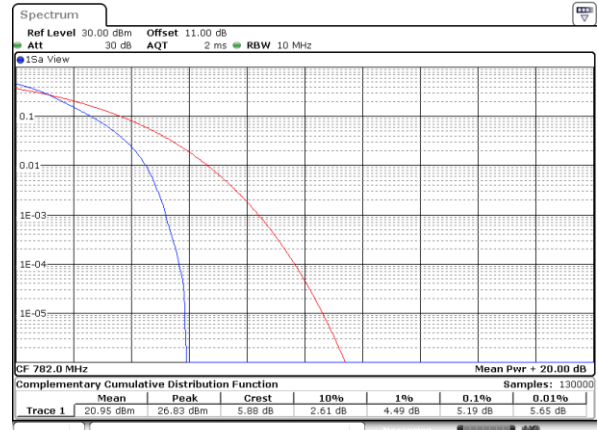


LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

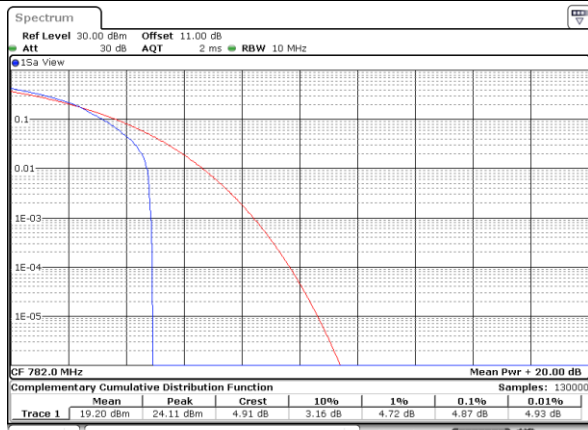


Middle Channel / Full RB

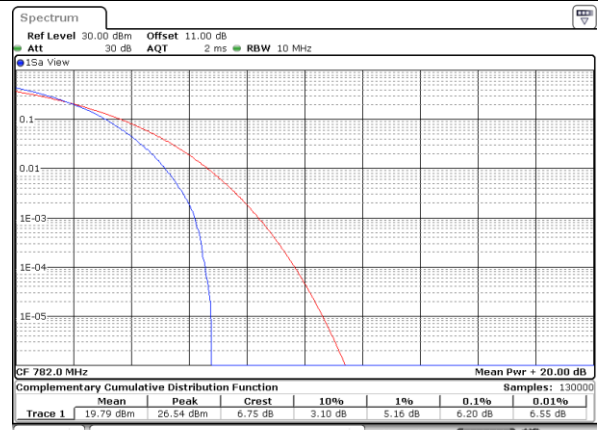


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Middle Channel / Full RB



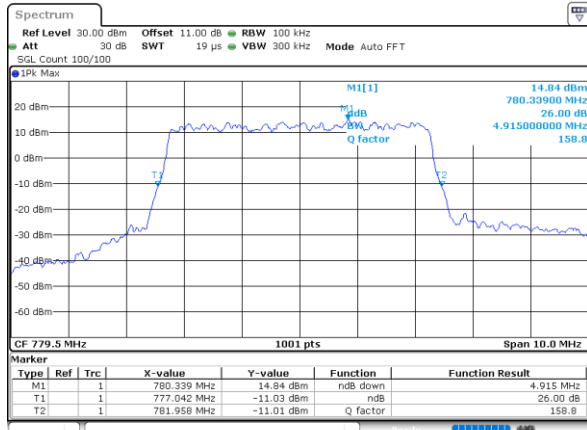
**26dB Bandwidth**

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
Lowest CH	-	-	-	-	4.92	4.91	-	-	-	-	-	-
Middle CH	-	-	-	-	4.95	5.02	9.73	9.79	-	-	-	-
Highest CH	-	-	-	-	4.89	4.94	-	-	-	-	-	-

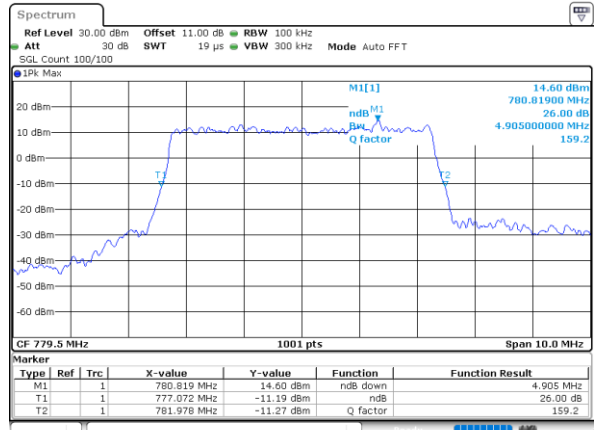


LTE Band 13

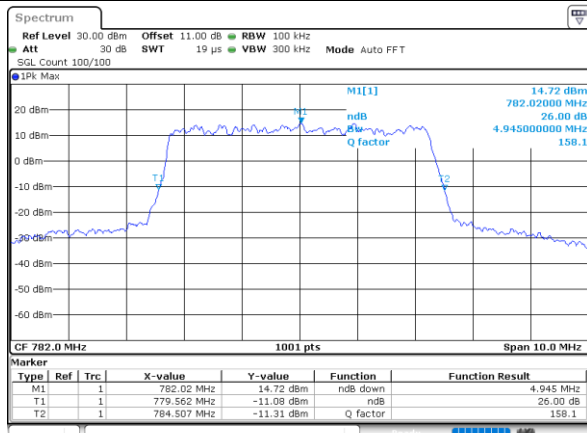
Lowest Channel / 5MHz / QPSK



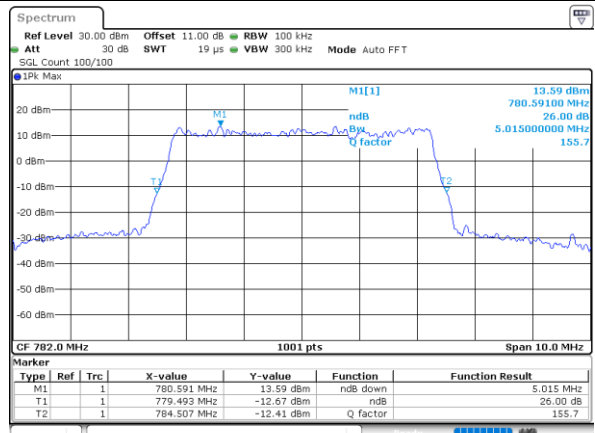
Lowest Channel / 5MHz / 16QAM



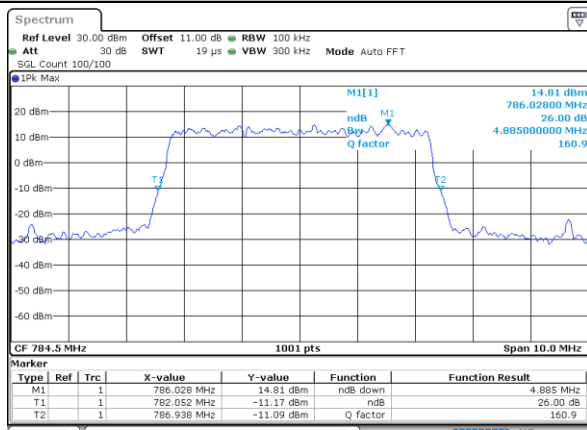
Middle Channel / 5MHz / QPSK



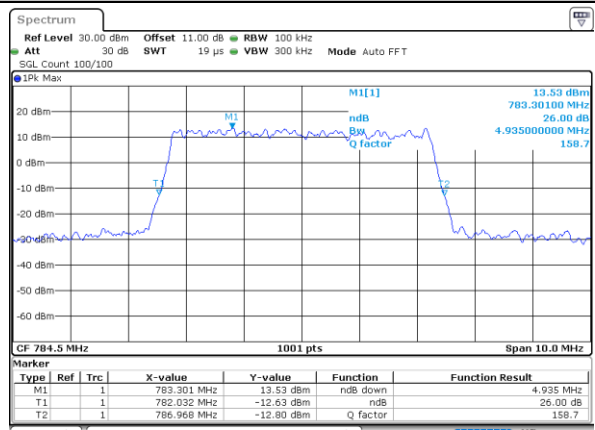
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



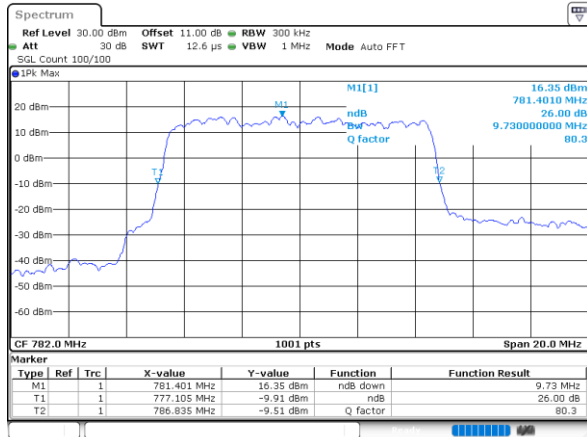
Highest Channel / 5MHz / 16QAM



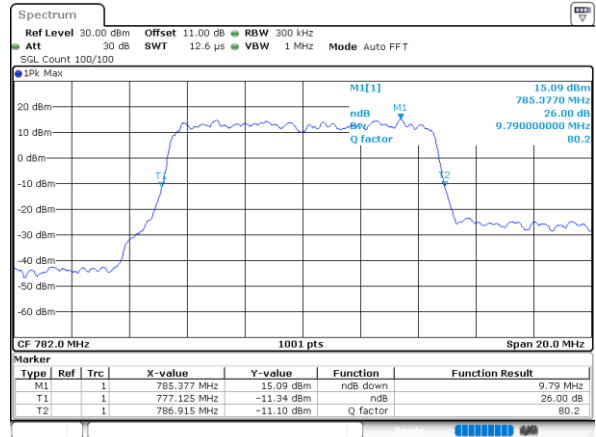


LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



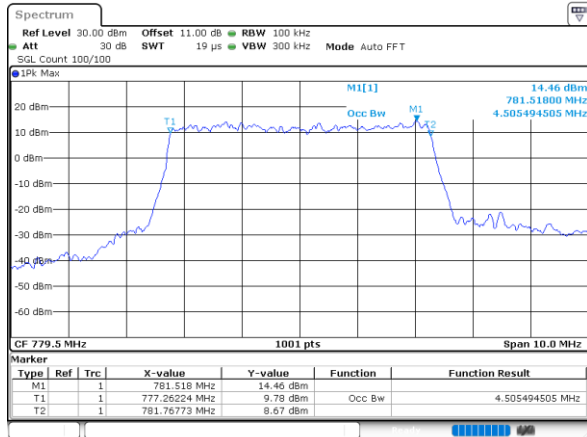
**Occupied Bandwidth**

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
Lowest CH	-	-	-	-	4.51	4.51	-	-	-	-	-	-
Middle CH	-	-	-	-	4.52	4.51	9.01	8.97	-	-	-	-
Highest CH	-	-	-	-	4.47	4.49	-	-	-	-	-	-

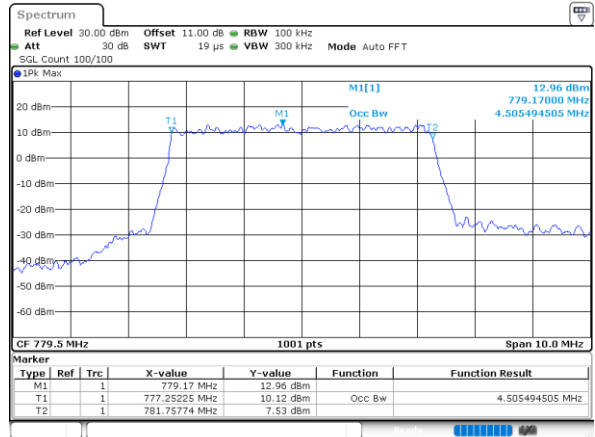


LTE Band 13

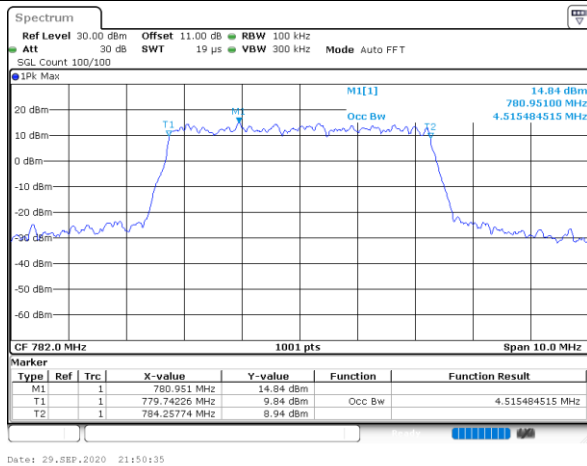
Lowest Channel / 5MHz / QPSK



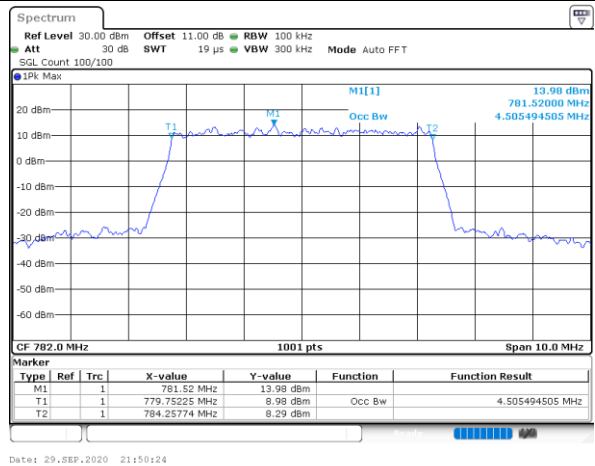
Lowest Channel / 5MHz / 16QAM



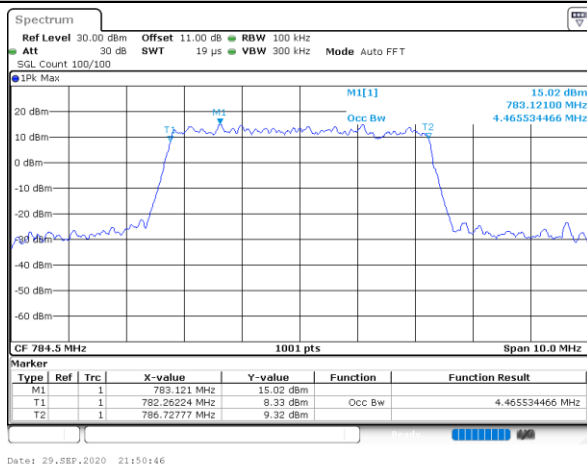
Middle Channel / 5MHz / QPSK



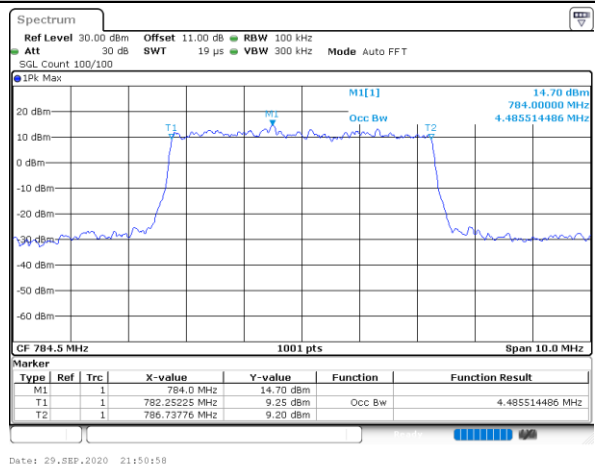
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



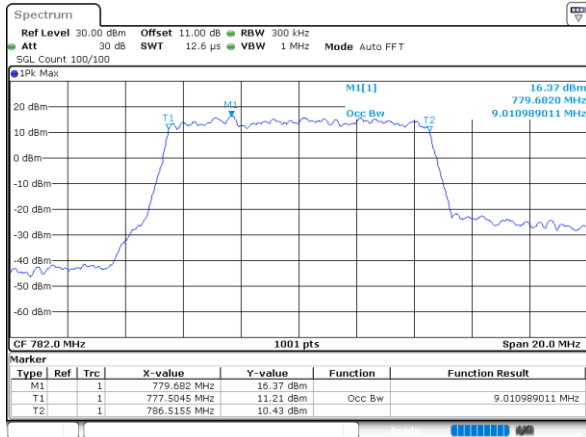
Highest Channel / 5MHz / 16QAM



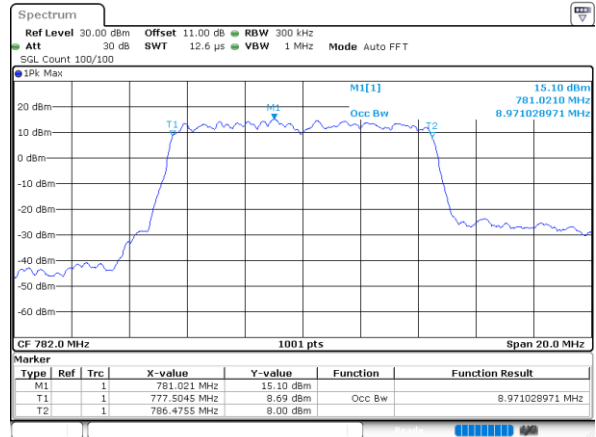


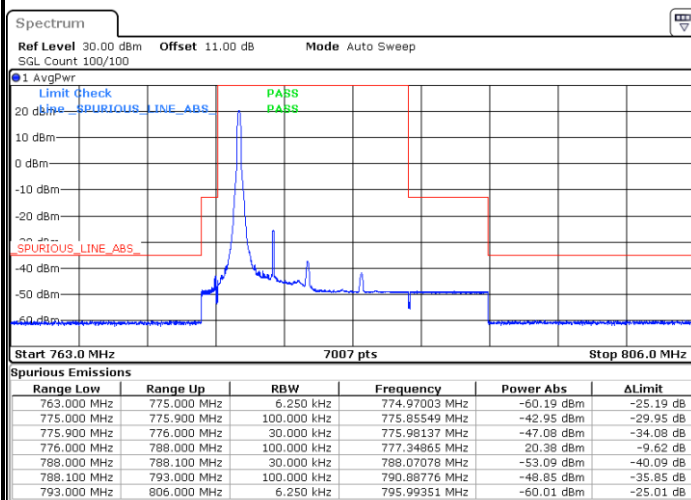
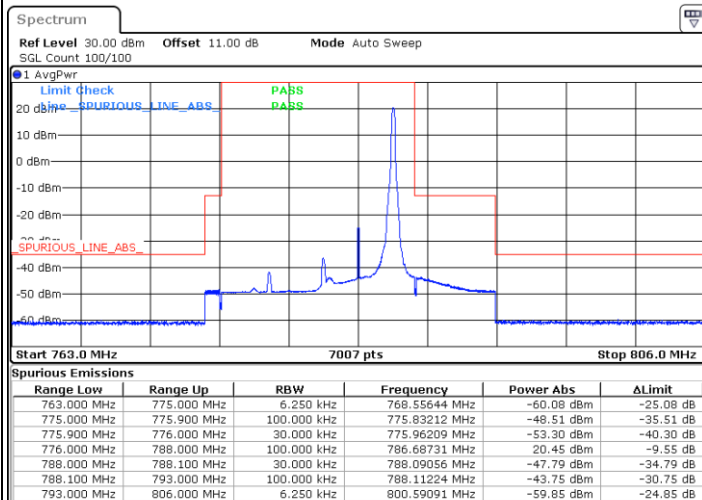
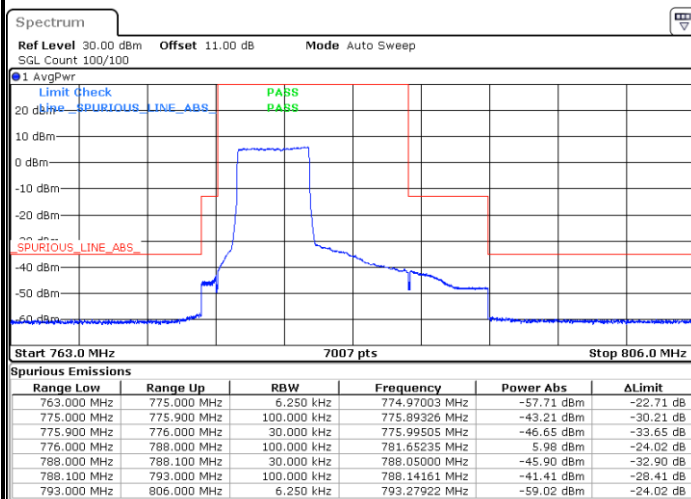
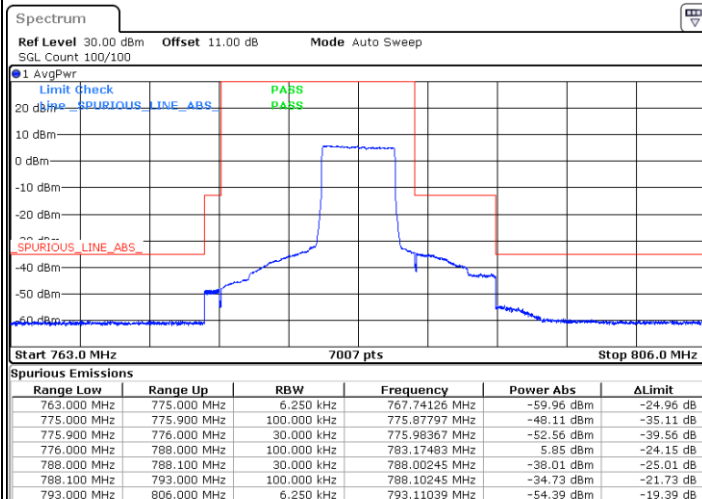
LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

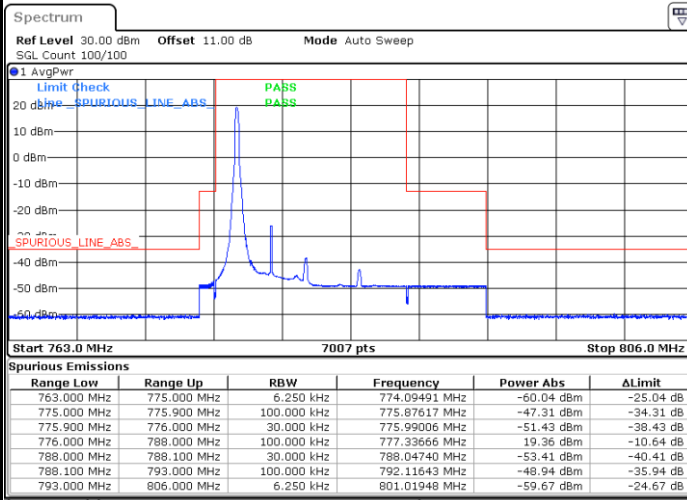


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



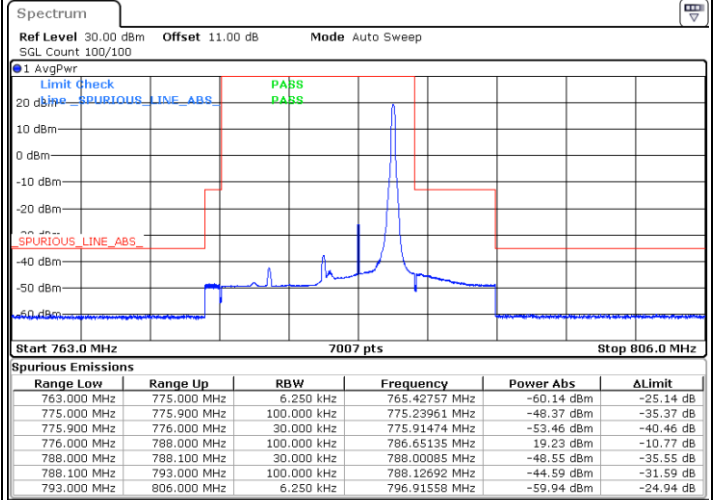
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



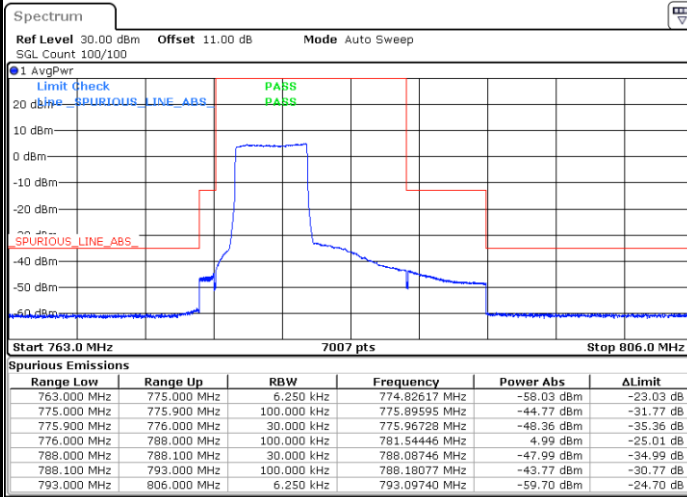
Date: 29.SEP.2020 22:19:03

Highest Band Edge / 1 RB



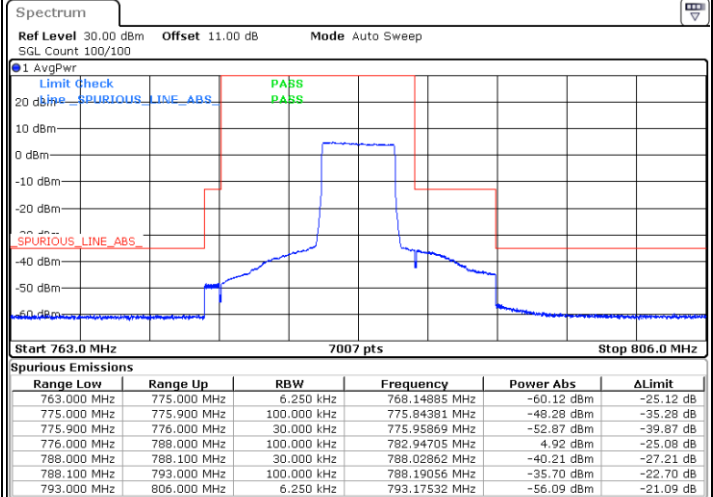
Date: 29.SEP.2020 22:25:44

Lowest Band Edge / Full RB



Date: 29.SEP.2020 22:17:23

Highest Band Edge / Full RB

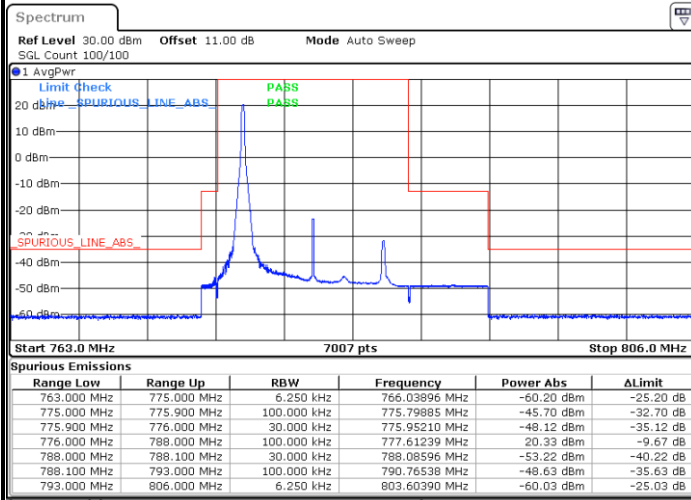


Date: 29.SEP.2020 22:24:03



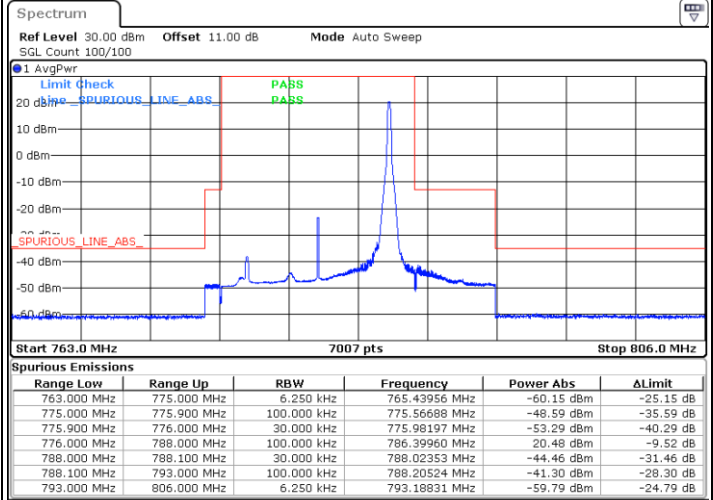
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



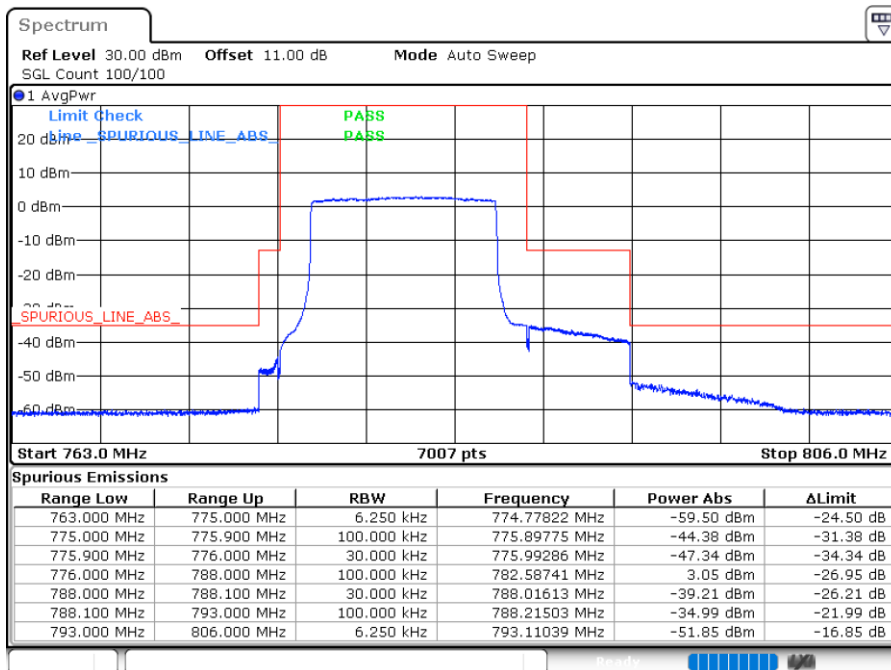
Date: 29.SEP.2020 22:34:02

Highest Band Edge / 1 RB



Date: 29.SEP.2020 22:35:41

Band Edge / Full RB



Date: 29.SEP.2020 22:29:04