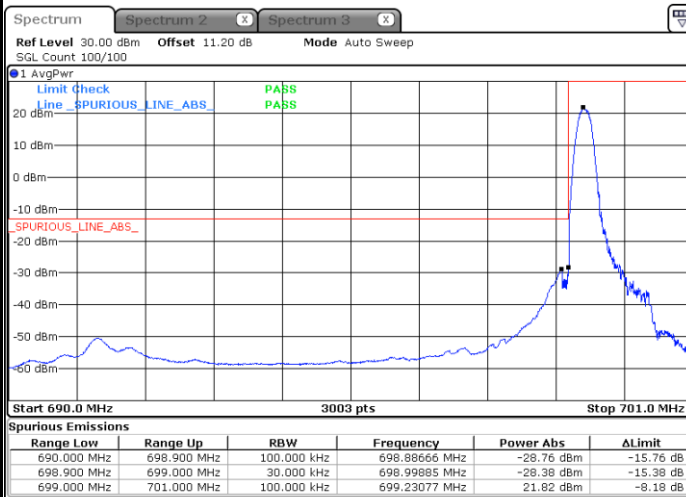
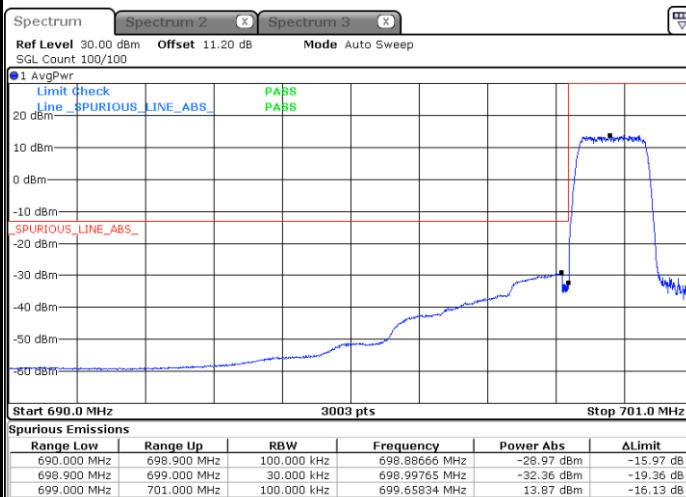
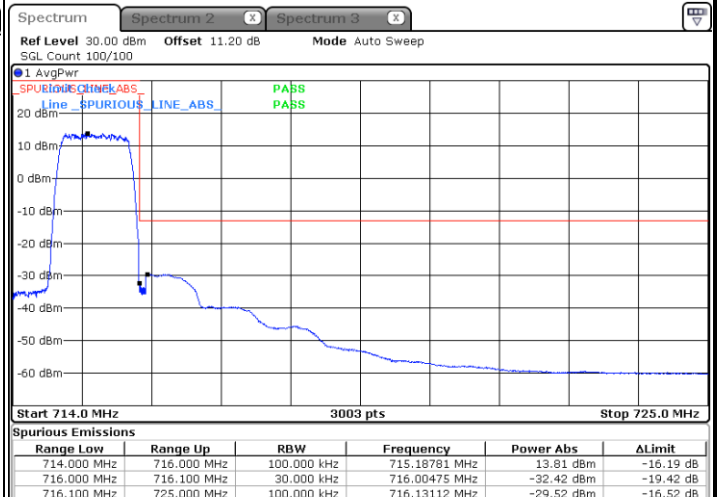
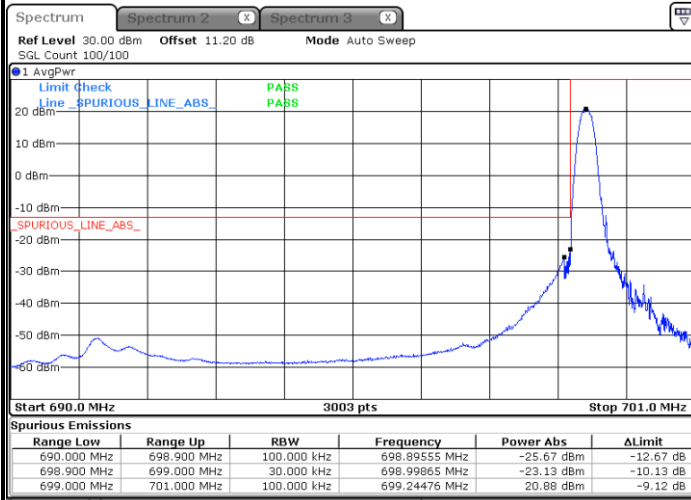


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

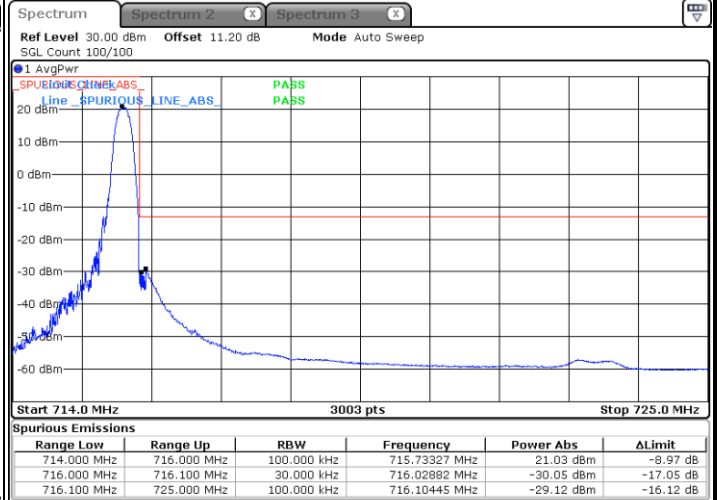


LTE Band 12 / 1.4MHz / 16QAM

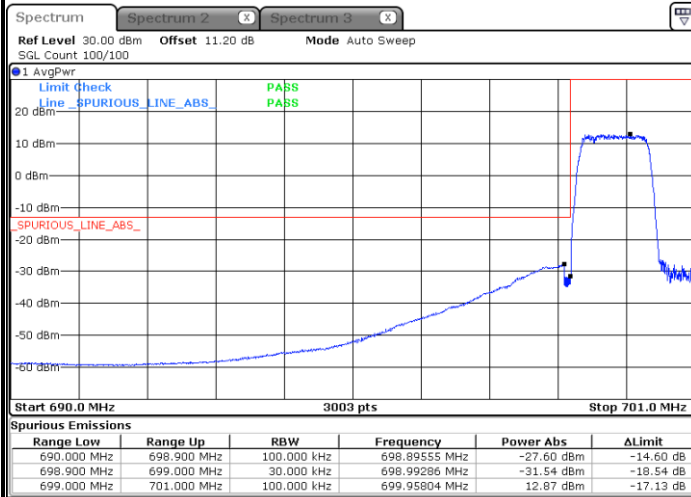
Lowest Band Edge / 1 RB



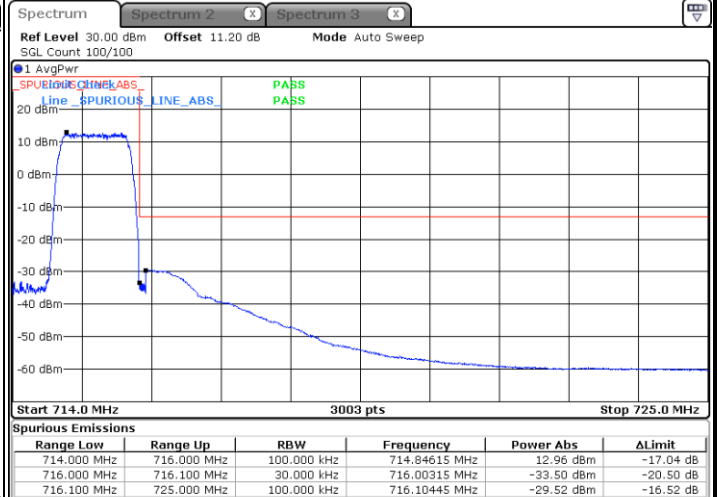
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



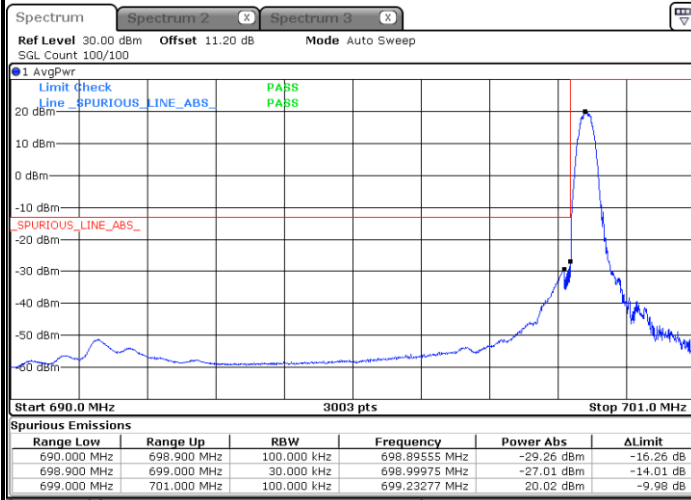
Highest Band Edge / Full RB



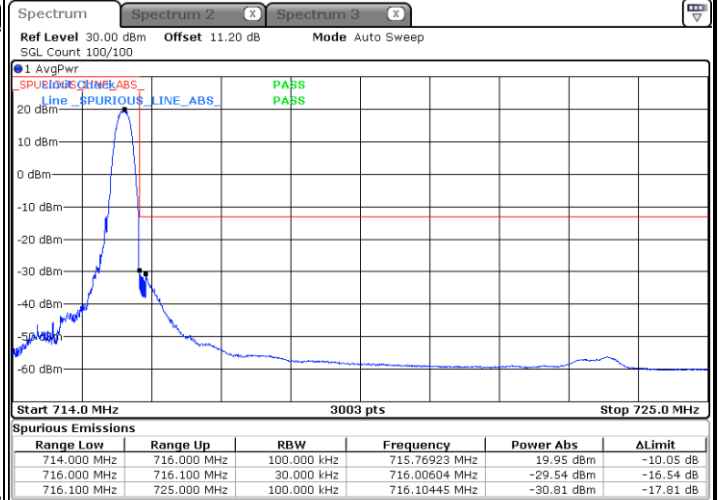


LTE Band 12 / 1.4MHz / 64QAM

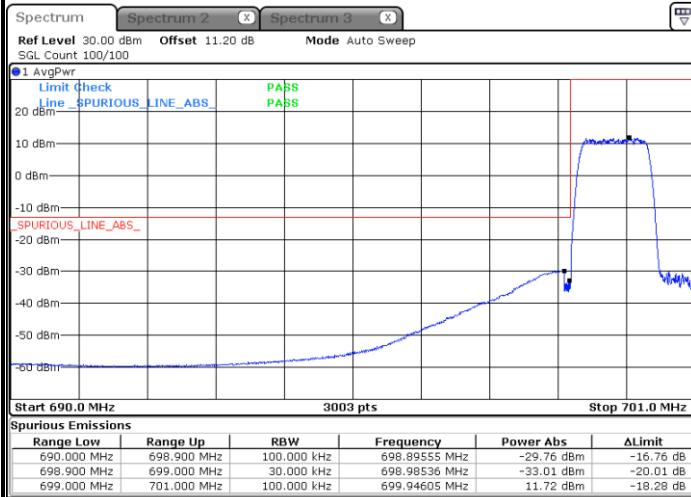
Lowest Band Edge / 1 RB



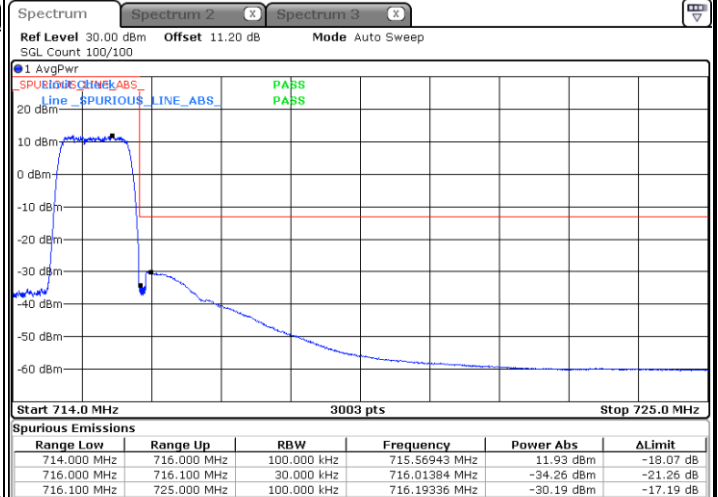
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



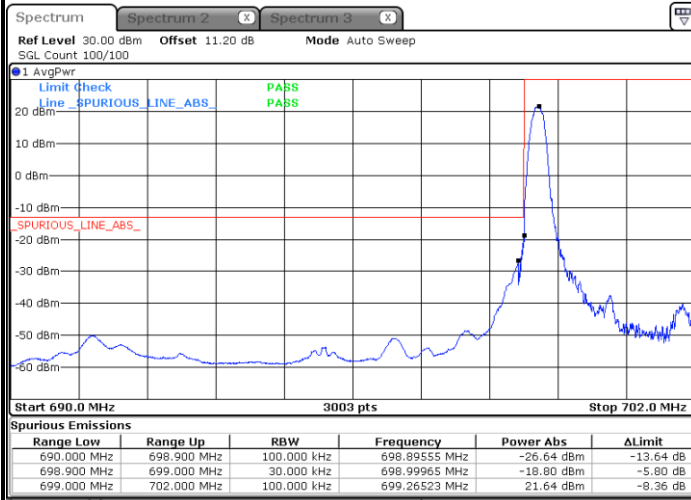
Highest Band Edge / Full RB



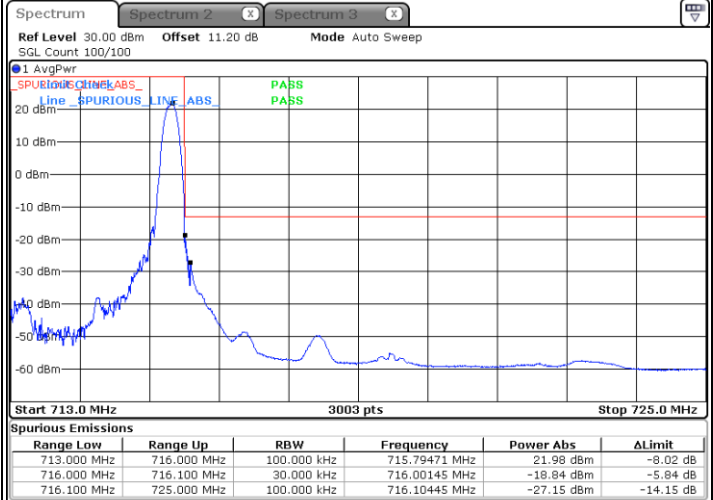


LTE Band 12 / 3MHz / QPSK

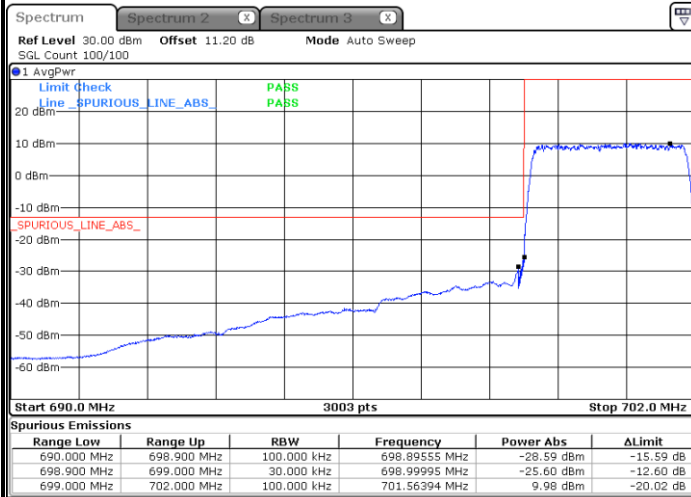
Lowest Band Edge / 1RB



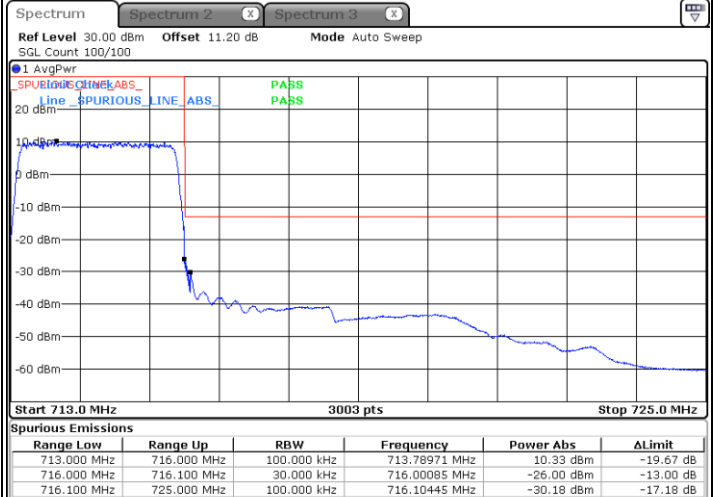
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



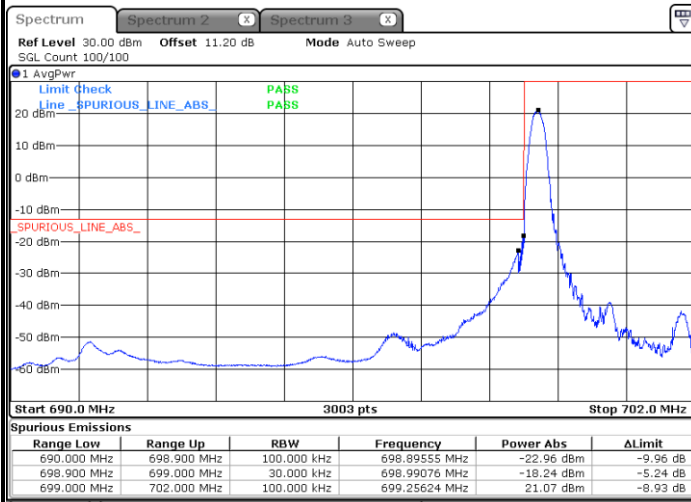
Highest Band Edge / Full RB



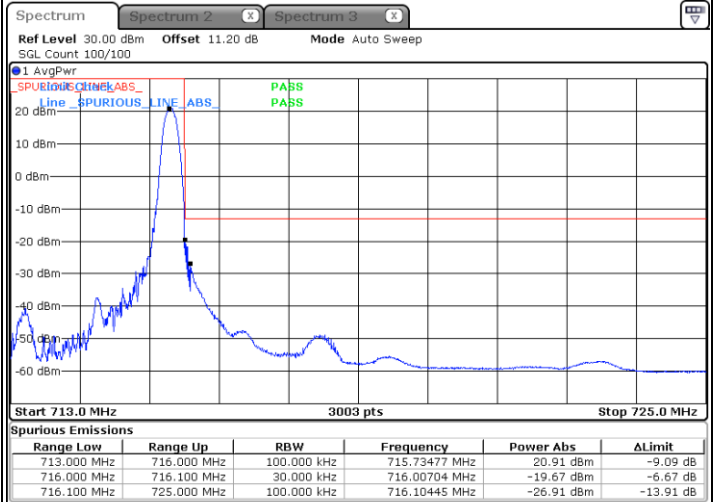


LTE Band 12 / 3MHz / 16QAM

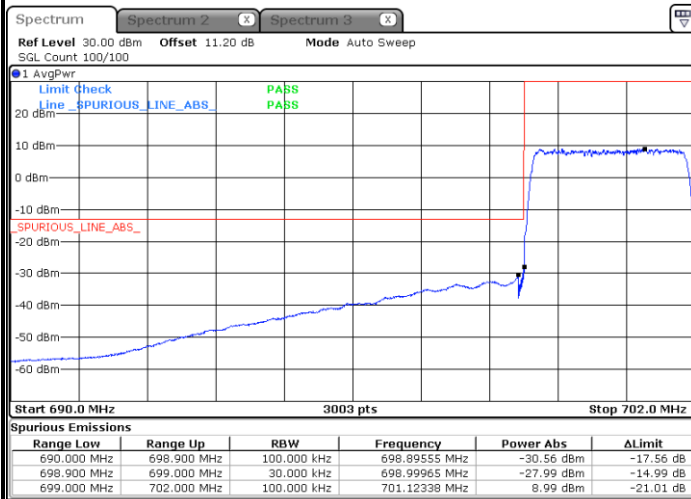
Lowest Band Edge / 1 RB



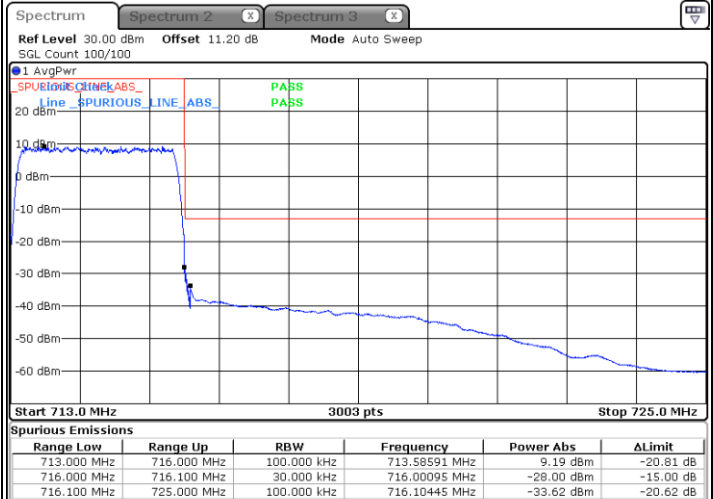
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



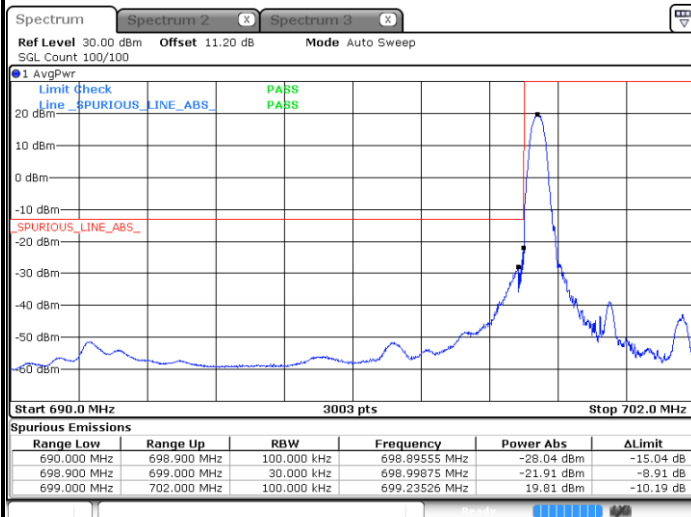
Highest Band Edge / Full RB



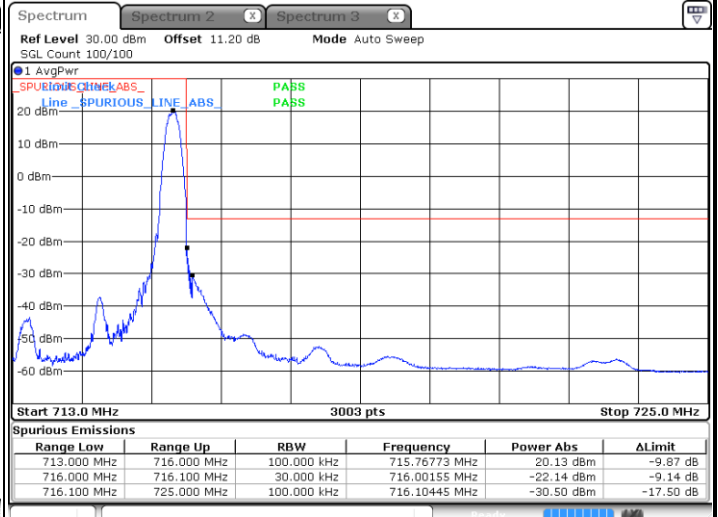


LTE Band 12 / 3MHz / 64QAM

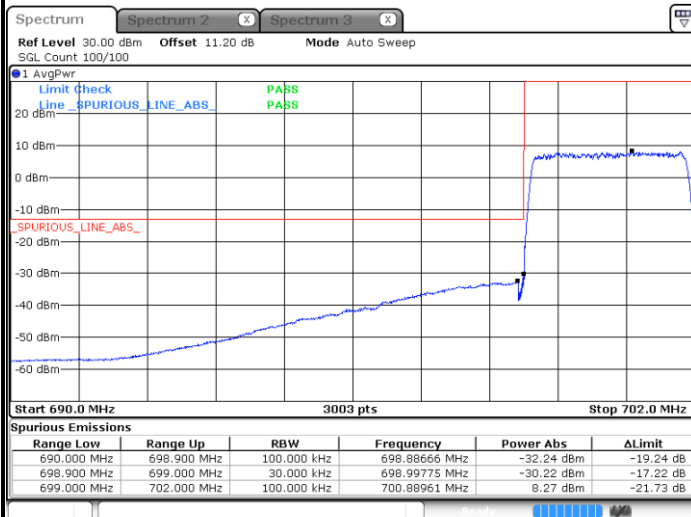
Lowest Band Edge / 1 RB



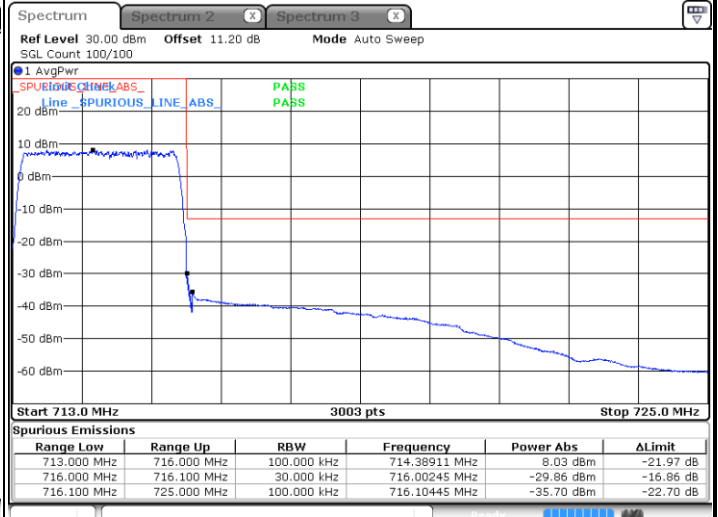
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



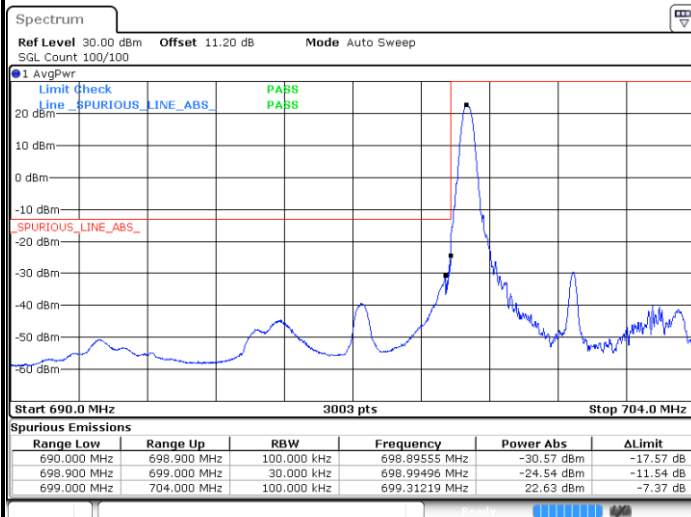
Highest Band Edge / Full RB



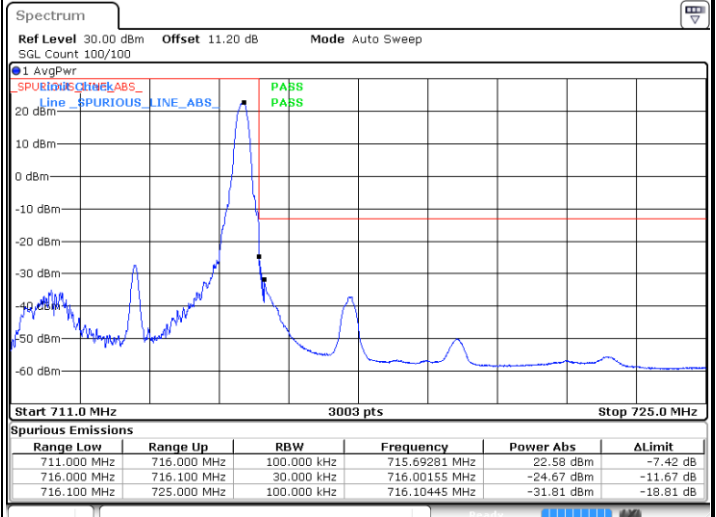


LTE Band 12 / 5MHz / QPSK

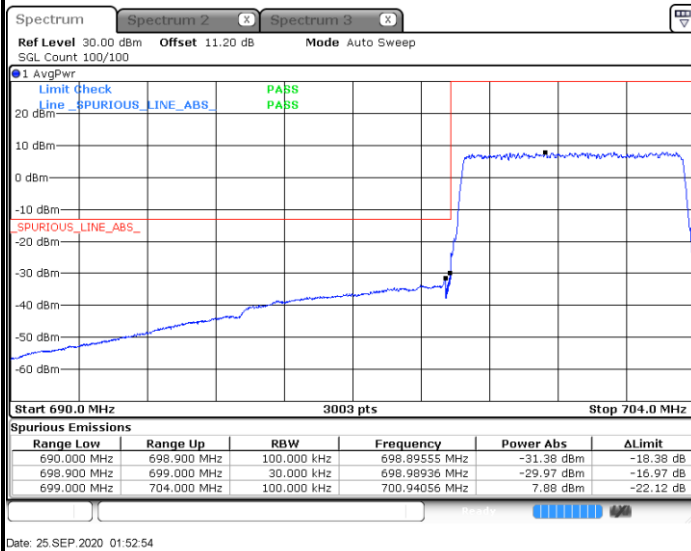
Lowest Band Edge / 1 RB



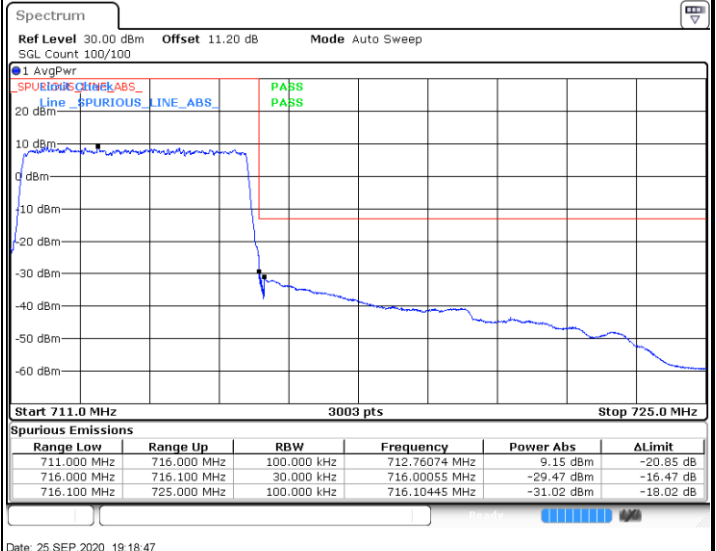
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



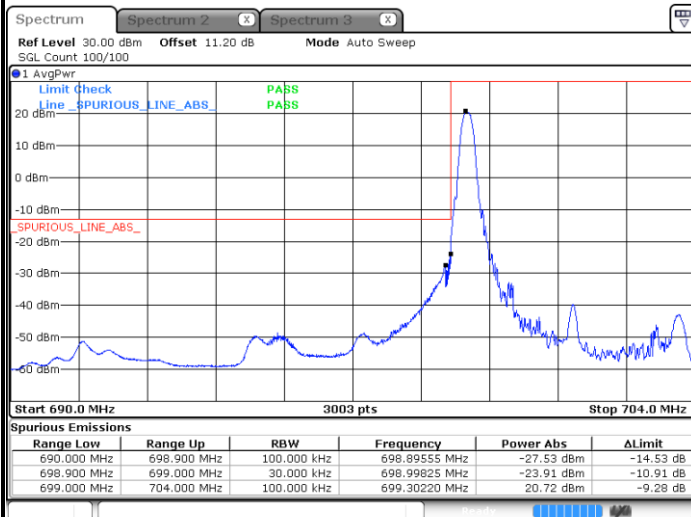
Highest Band Edge / Full RB



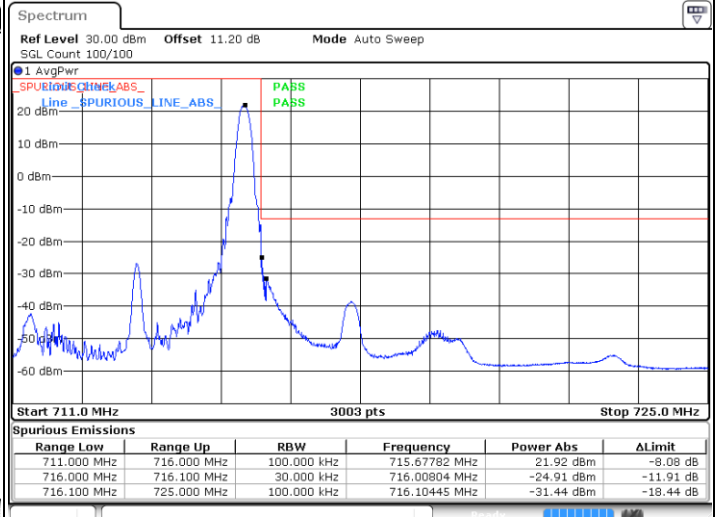


LTE Band 12 / 5MHz / 16QAM

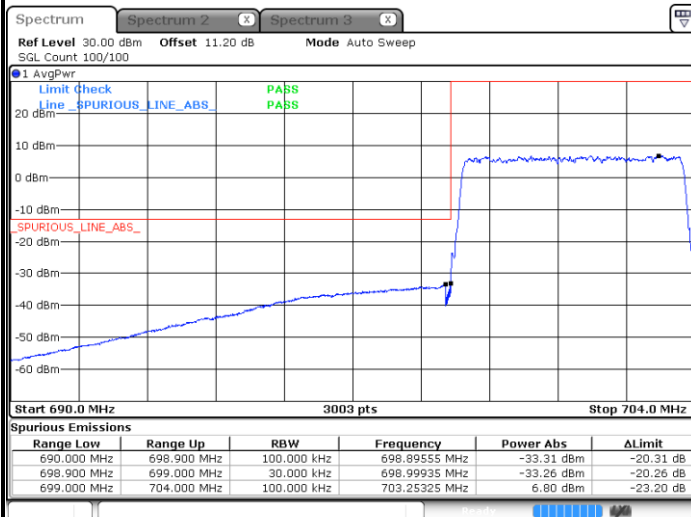
Lowest Band Edge / 1RB



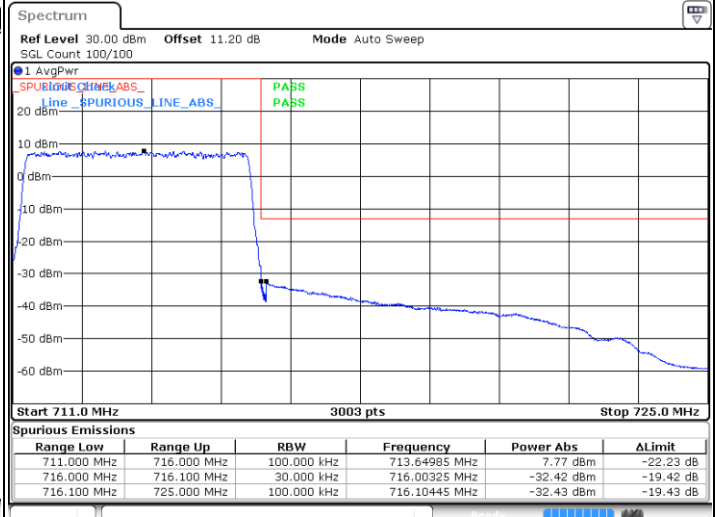
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



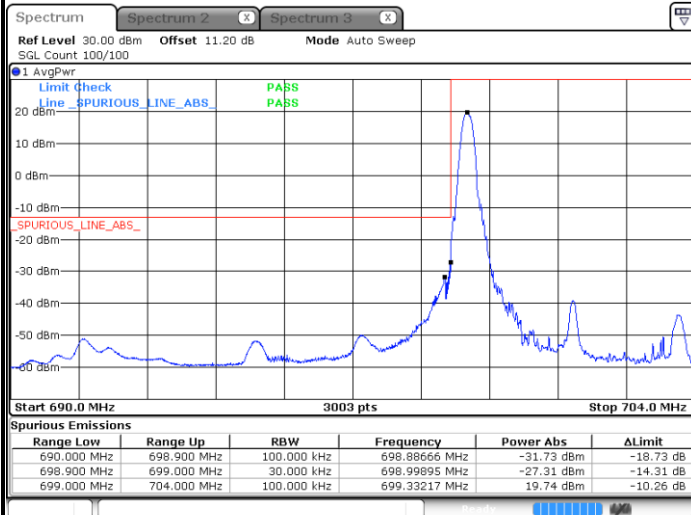
Highest Band Edge / Full RB



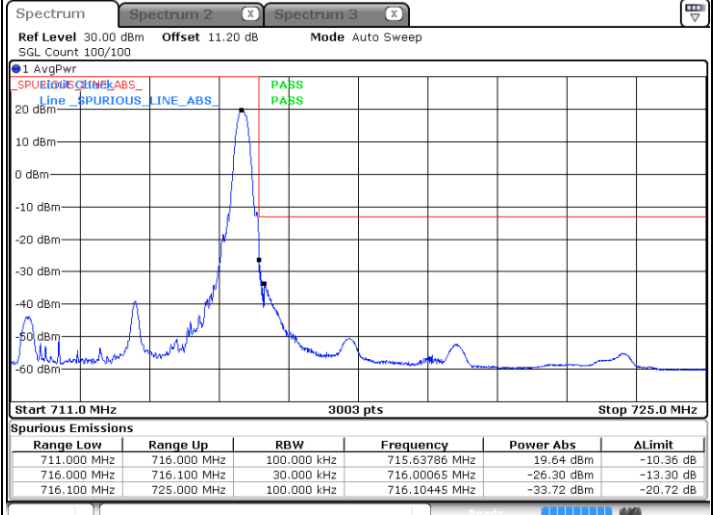


LTE Band 12 / 5MHz / 64QAM

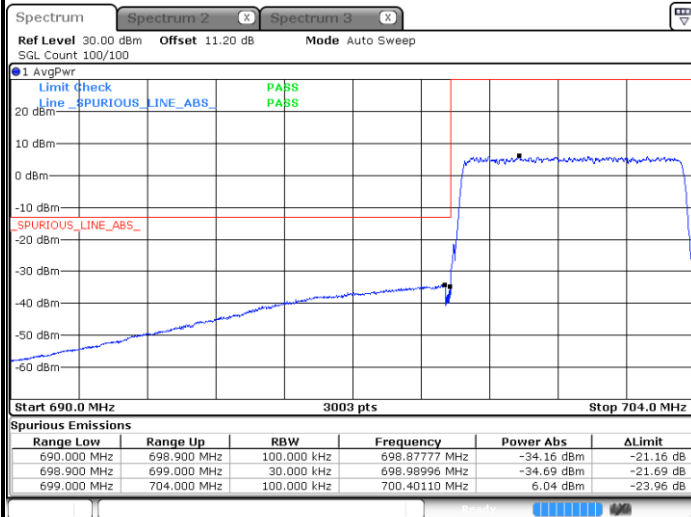
Lowest Band Edge / 1RB



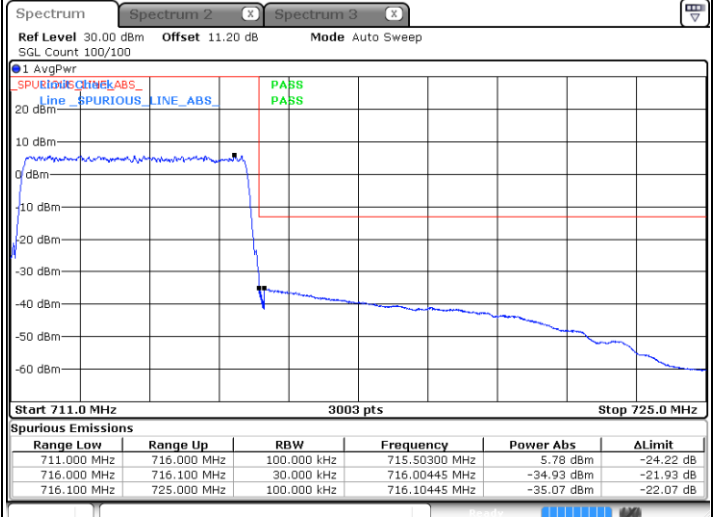
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



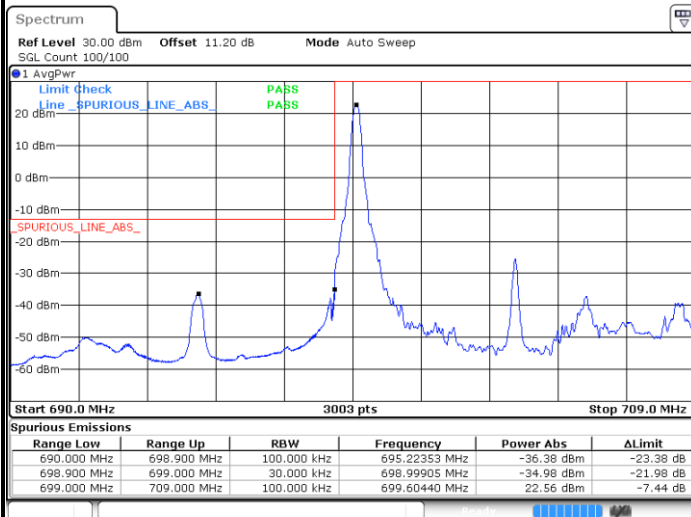
Highest Band Edge / Full RB



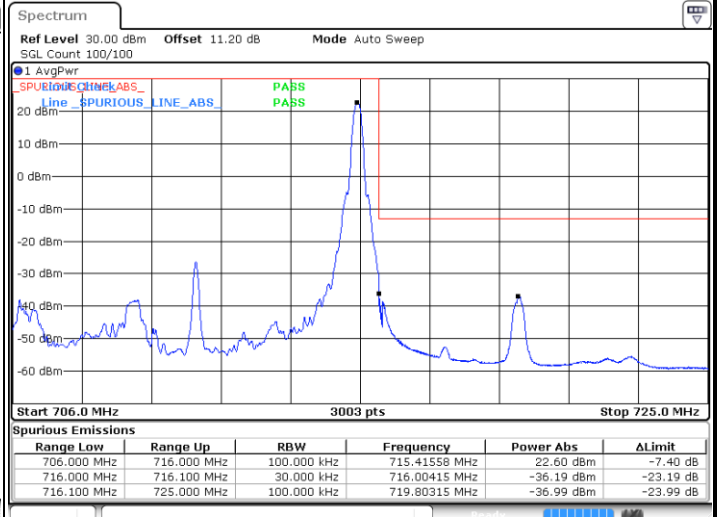


LTE Band 12 / 10MHz / QPSK

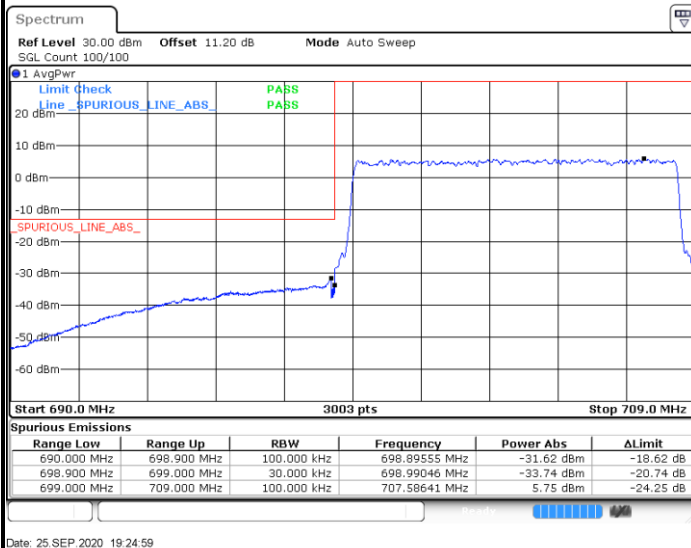
Lowest Band Edge / 1 RB



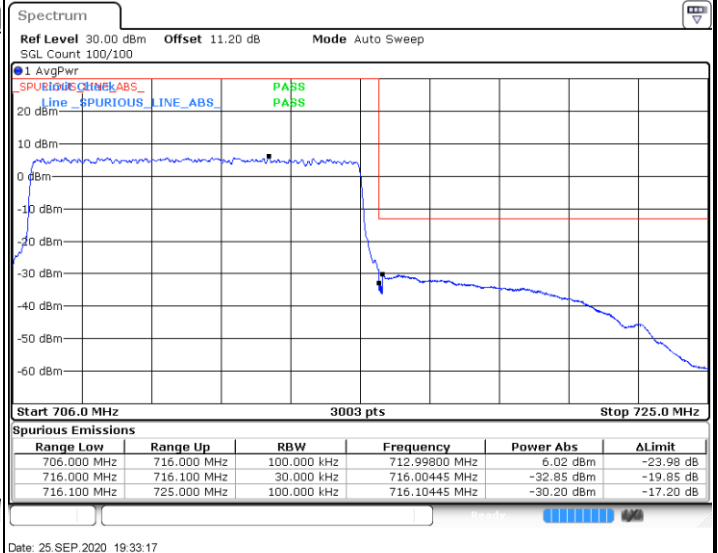
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



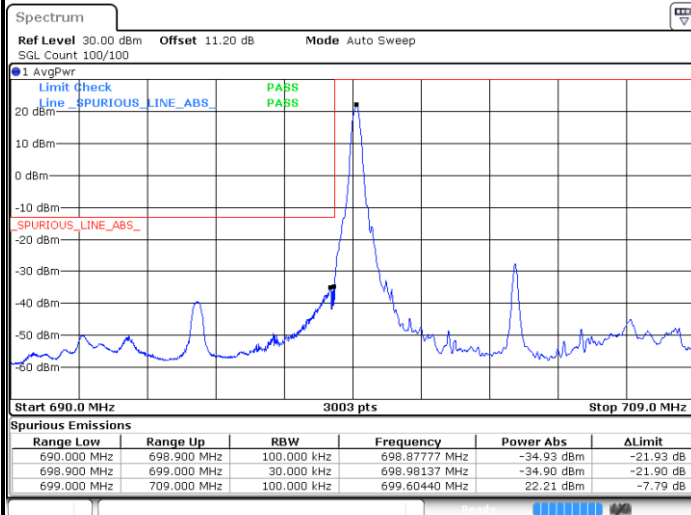
Highest Band Edge / Full RB



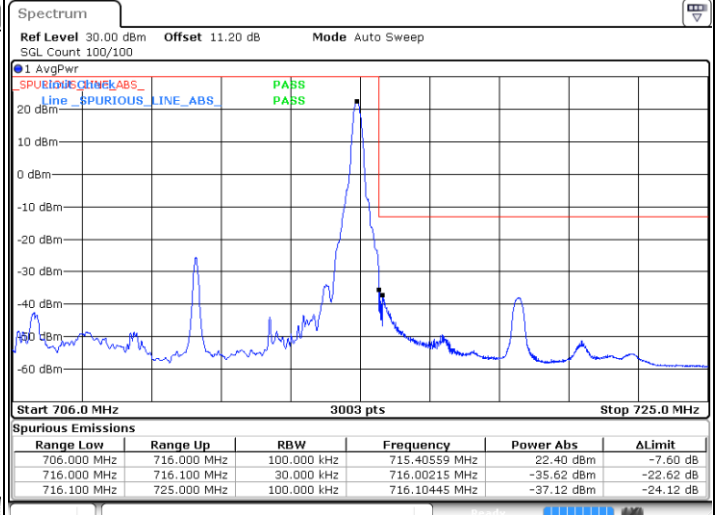


LTE Band 12 / 10MHz / 16QAM

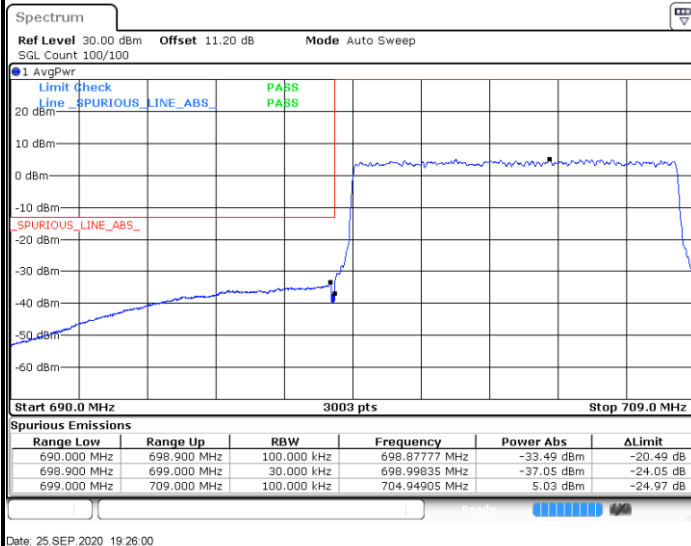
Lowest Band Edge / 1 RB



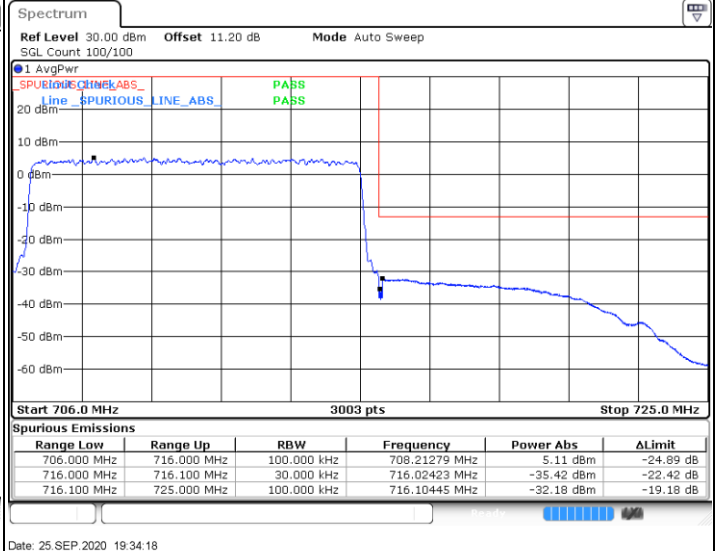
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



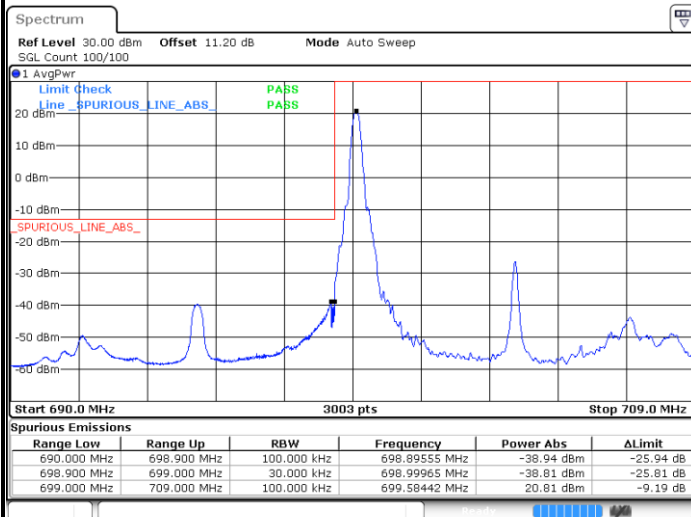
Highest Band Edge / Full RB



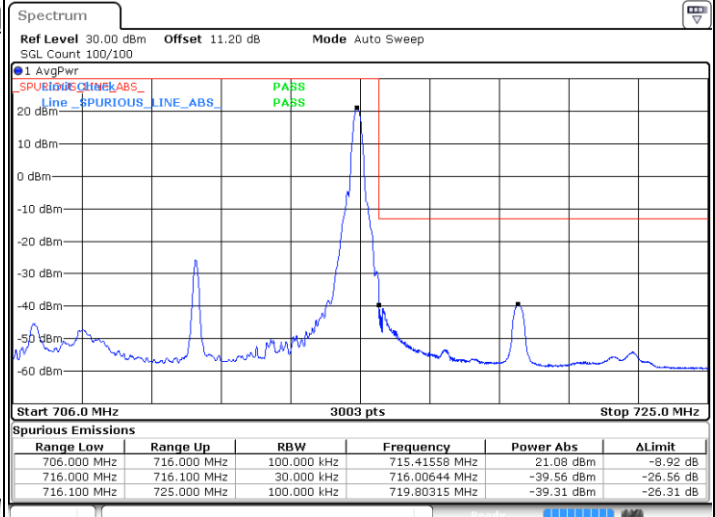


LTE Band 12 / 10MHz / 64QAM

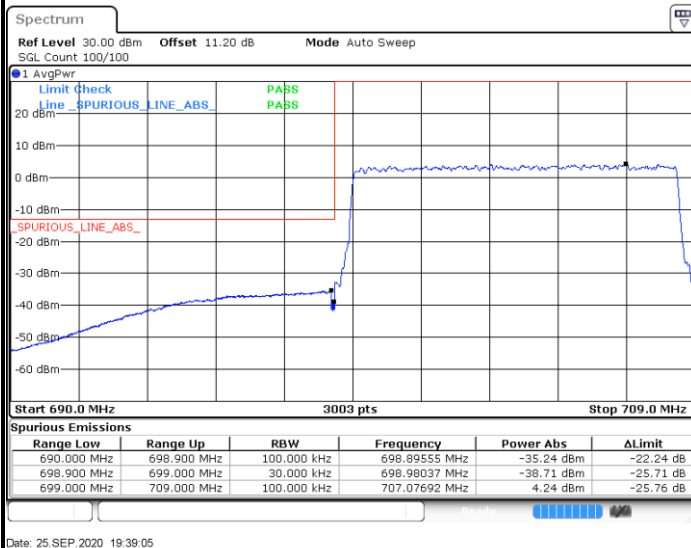
Lowest Band Edge / 1 RB



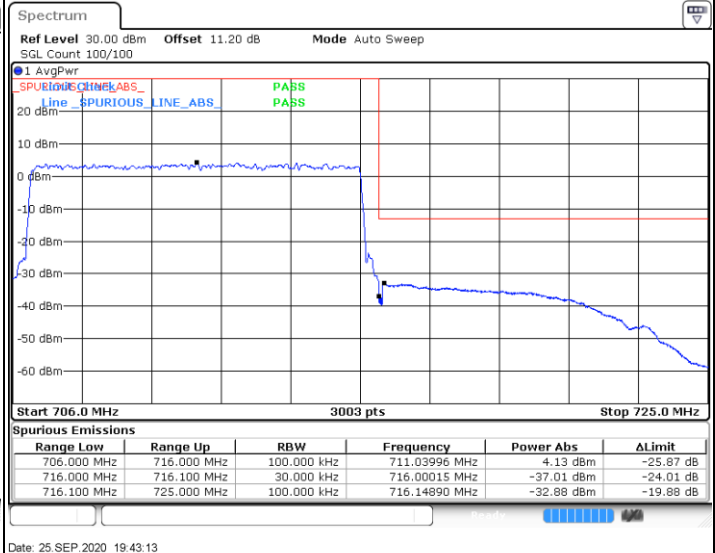
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

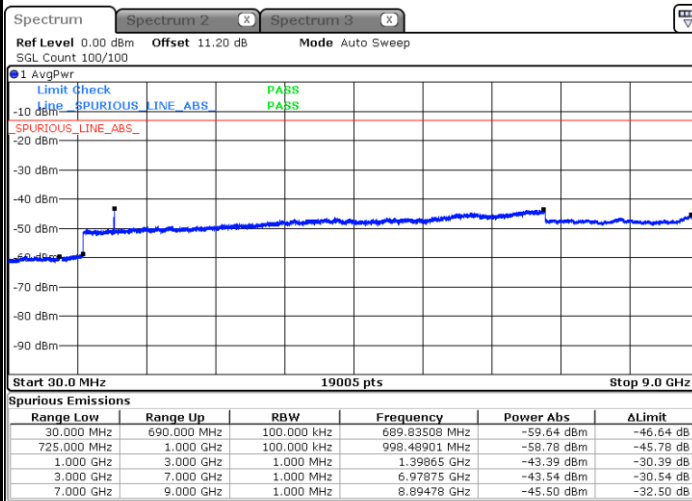




Conducted Spurious Emission

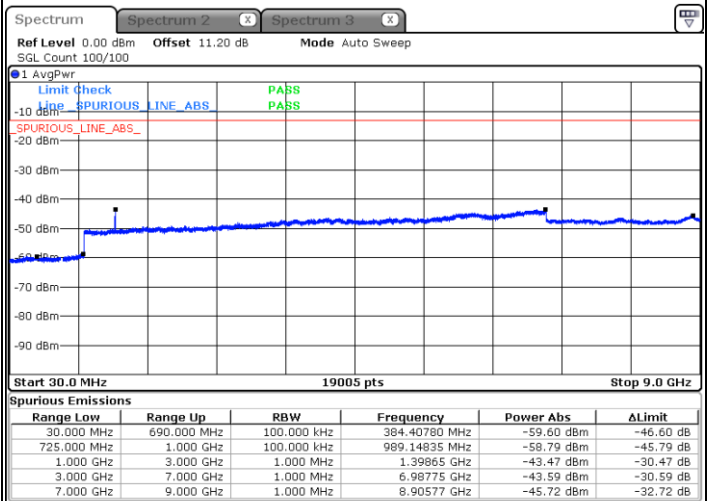
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



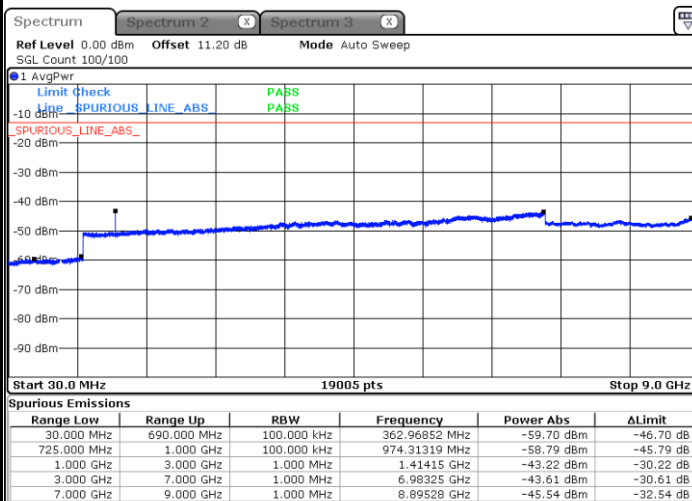
Date: 25 SEP.2020 00:58:48

Lowest Channel / 16QAM



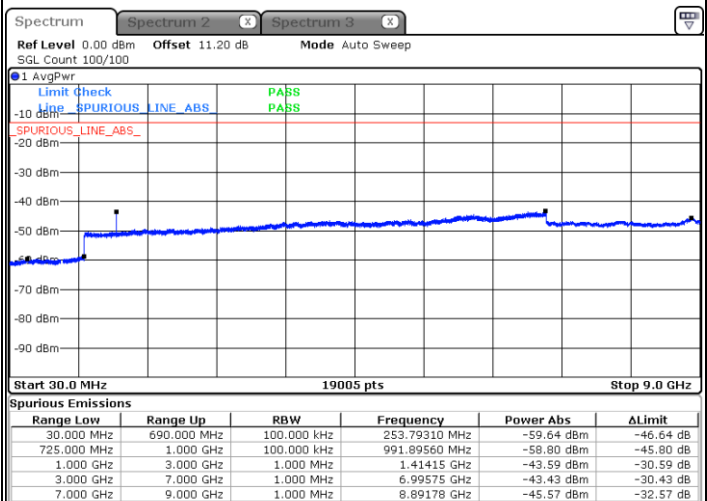
Date: 25 SEP.2020 00:59:29

Middle Channel / QPSK



Date: 25 SEP.2020 01:01:37

Middle Channel / 16QAM

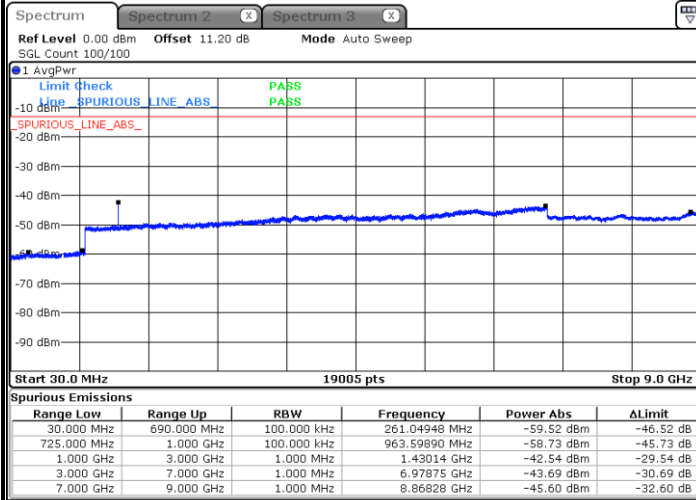


Date: 25 SEP.2020 01:00:57



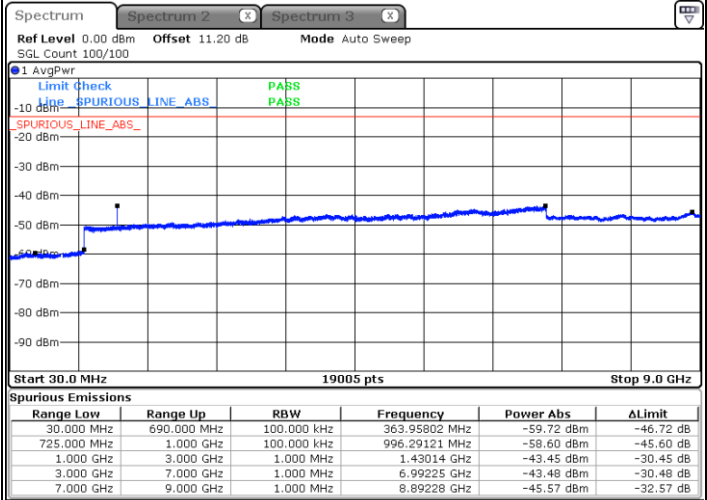
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 25 SEP.2020 01:07:09

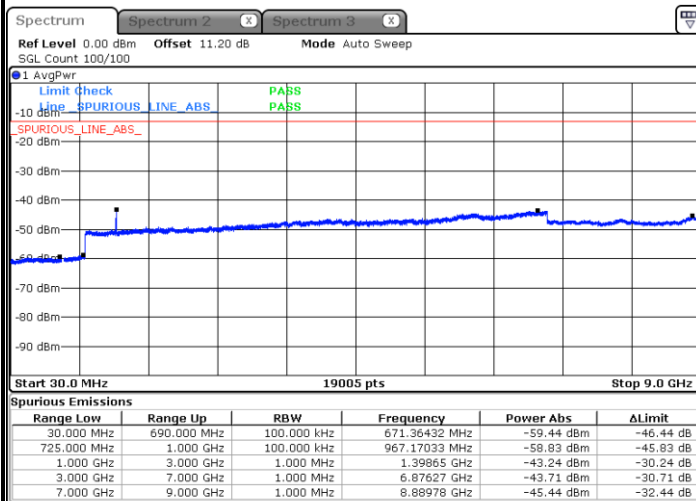
Highest Channel / 16QAM



Date: 25 SEP.2020 01:07:50

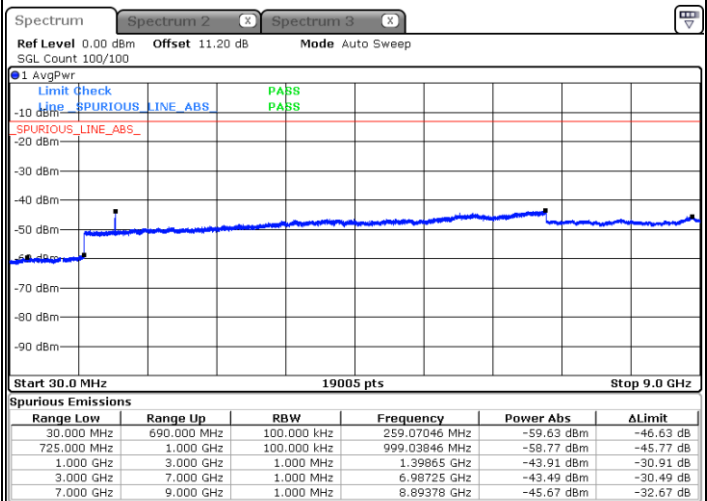
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 25 SEP.2020 01:20:39

Lowest Channel / 16QAM

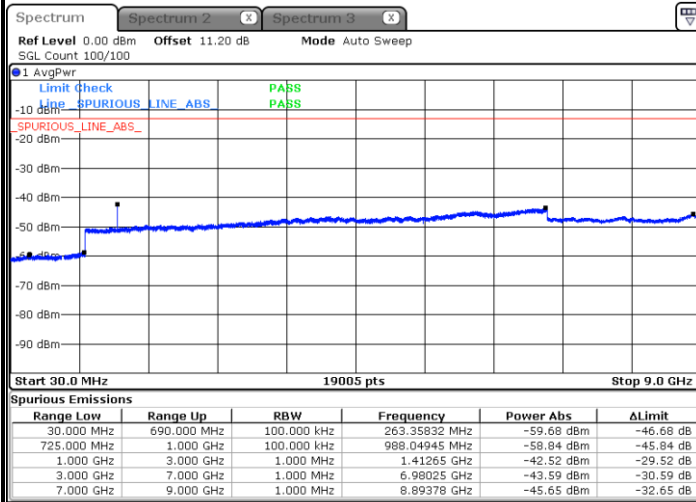


Date: 25 SEP.2020 01:21:20



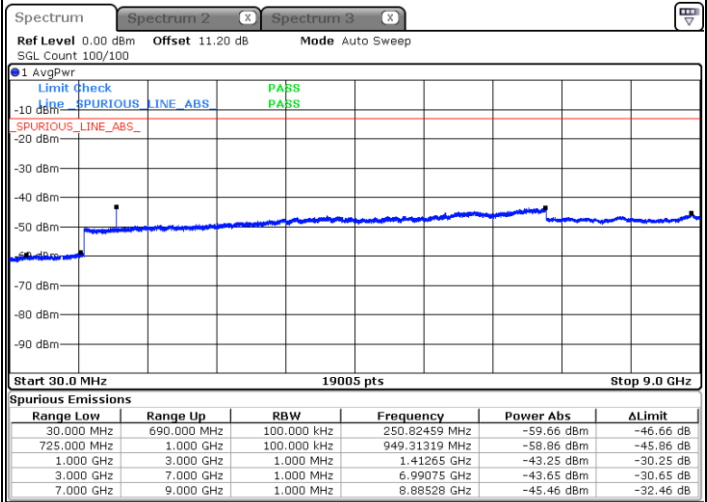
LTE Band 12 / 3MHz

Middle Channel / QPSK



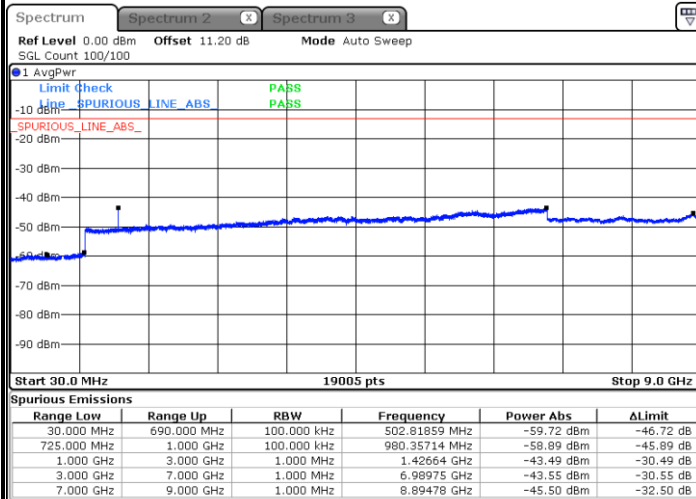
Date: 25 SEP 2020 01:30:20

Middle Channel / 16QAM



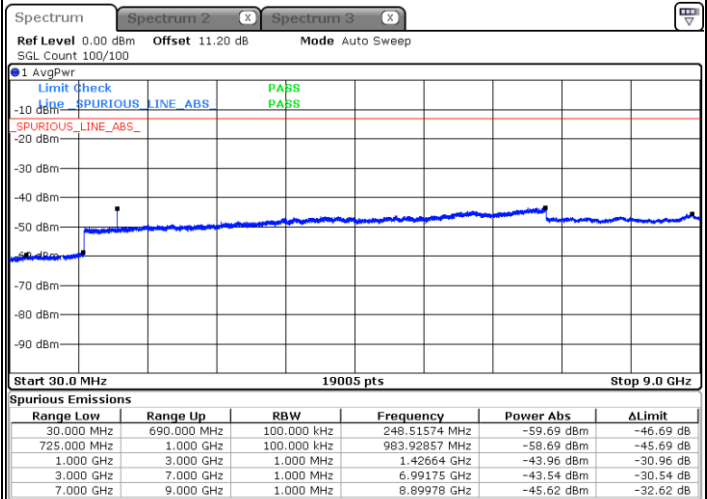
Date: 25 SEP 2020 01:22:47

Highest Channel / QPSK



Date: 25 SEP 2020 01:35:52

Highest Channel / 16QAM

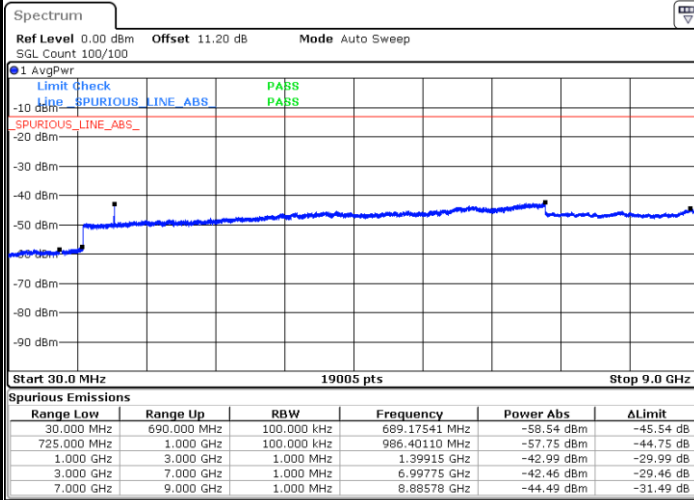


Date: 25 SEP 2020 01:36:33



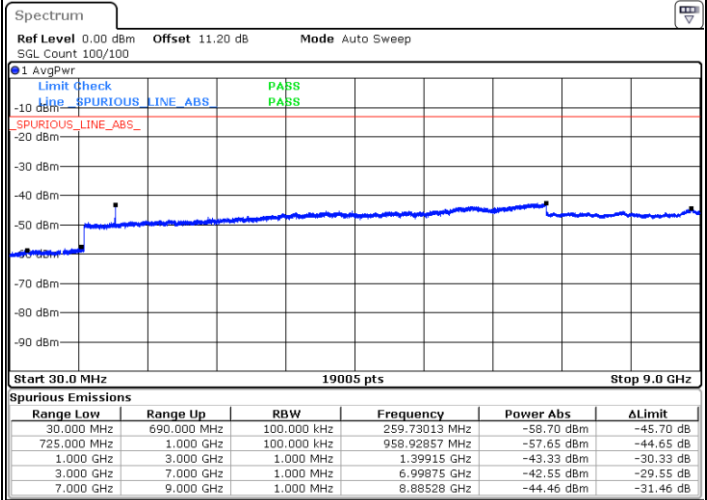
LTE Band 12 / 5MHz

Lowest Channel / QPSK



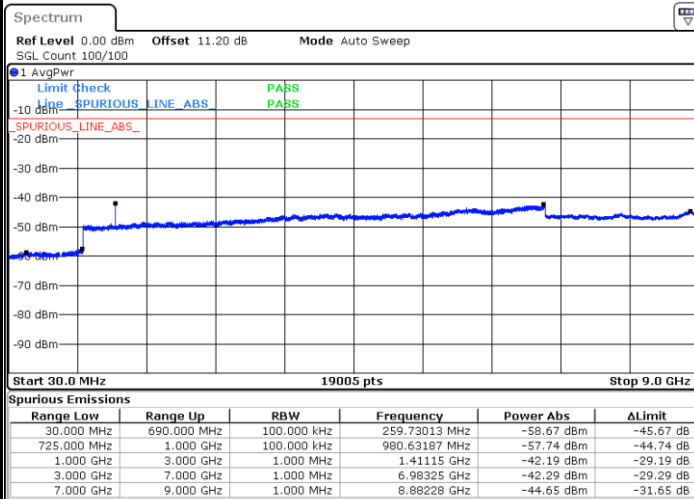
Date: 25 SEP.2020 19:14:13

Lowest Channel / 16QAM



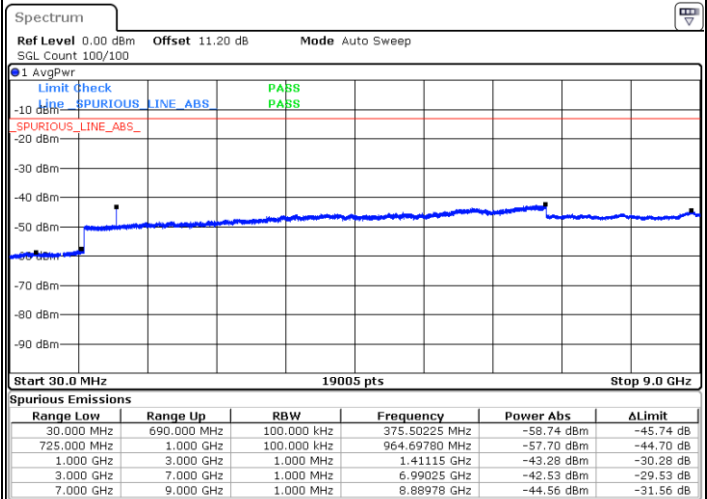
Date: 25 SEP.2020 19:14:54

Middle Channel / QPSK



Date: 25 SEP.2020 19:17:00

Middle Channel / 16QAM

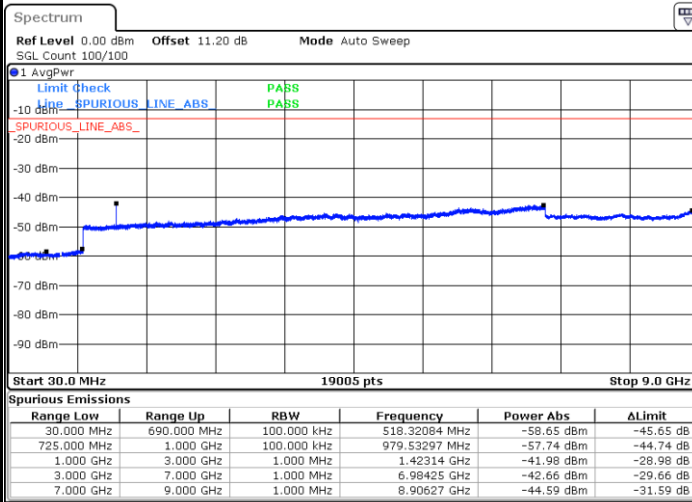


Date: 25 SEP.2020 19:16:20



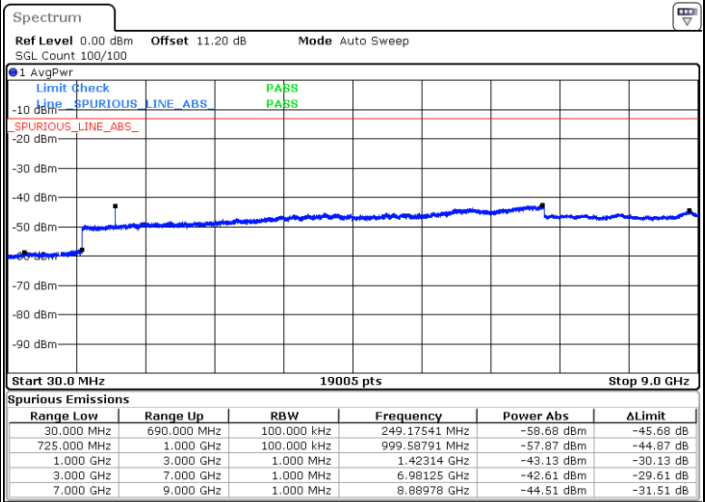
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 25 SEP.2020 19:23:11

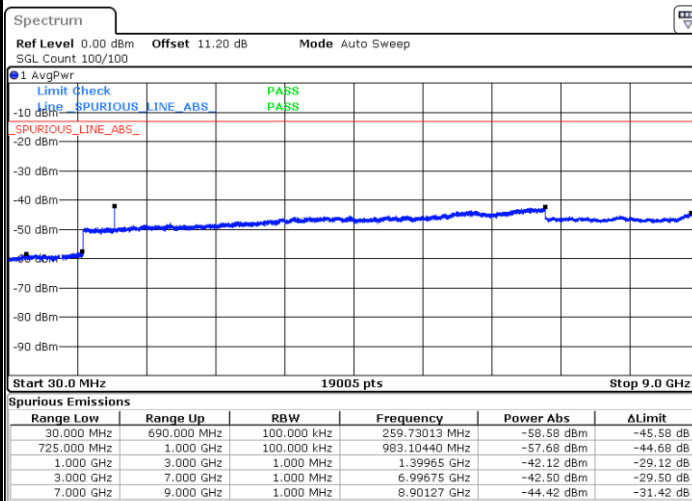
Highest Channel / 16QAM



Date: 25 SEP.2020 19:22:31

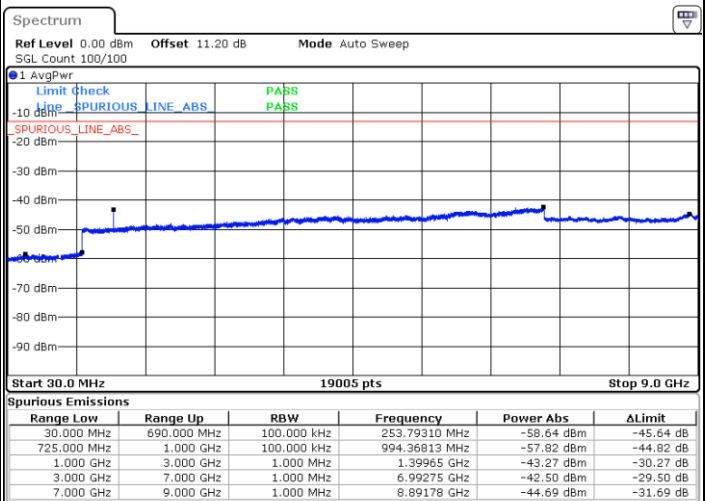
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 25 SEP.2020 19:28:43

Lowest Channel / 16QAM

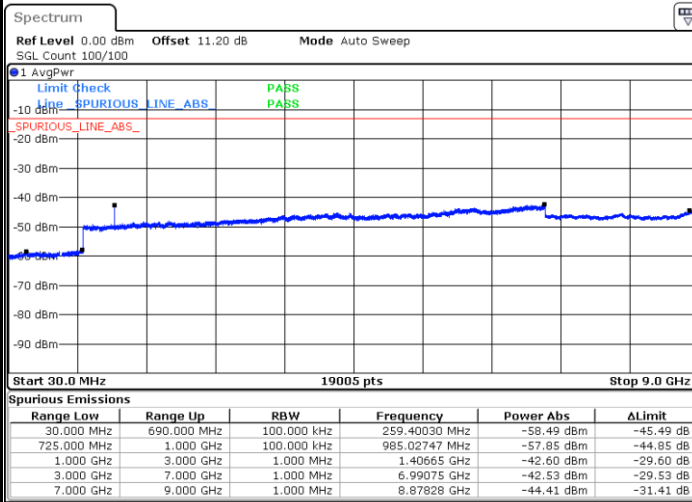


Date: 25 SEP.2020 19:29:24



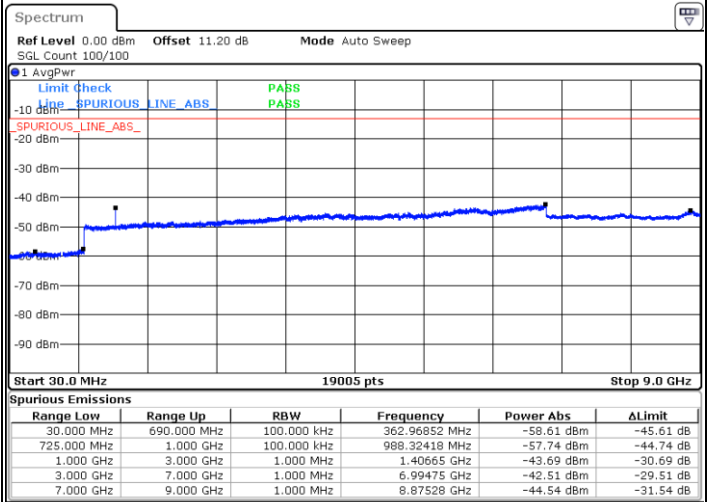
LTE Band 12 / 10MHz

Middle Channel / QPSK



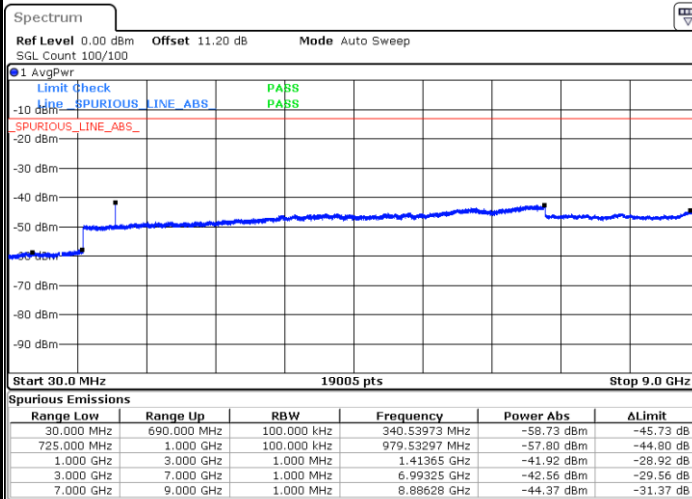
Date: 25 SEP.2020 19:31:30

Middle Channel / 16QAM



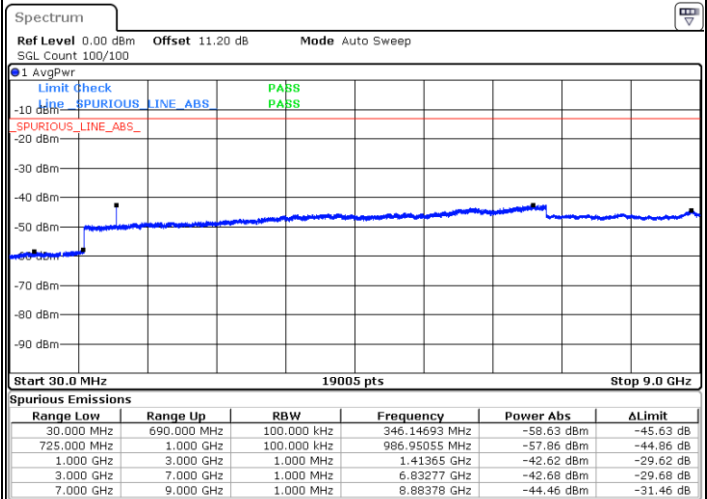
Date: 25 SEP.2020 19:30:49

Highest Channel / QPSK



Date: 25 SEP.2020 19:37:00

Highest Channel / 16QAM

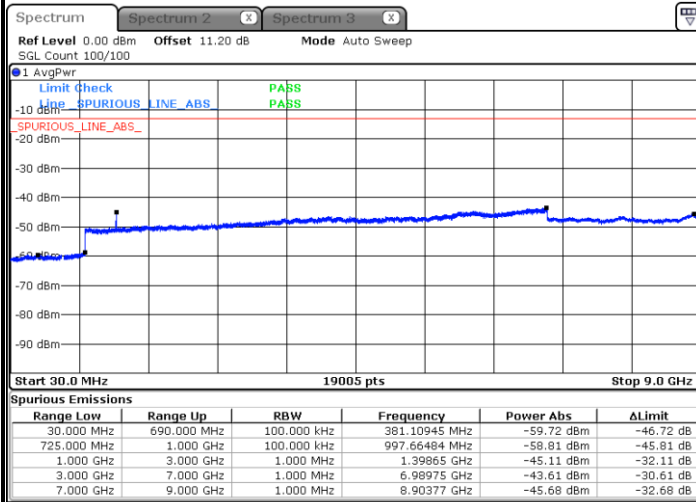


Date: 25 SEP.2020 19:37:41



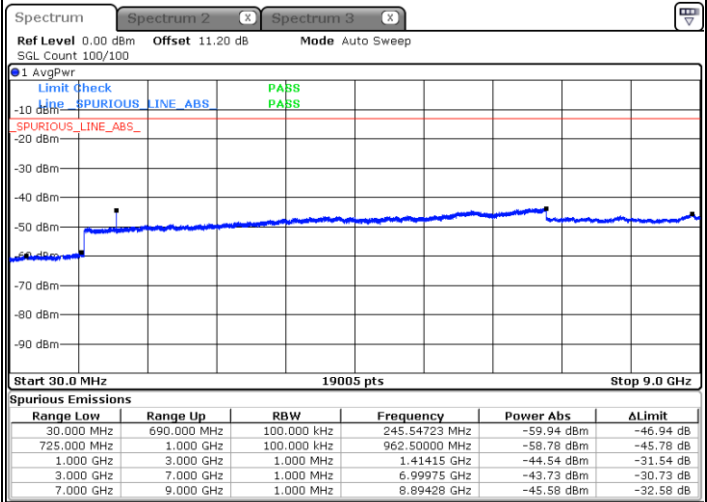
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



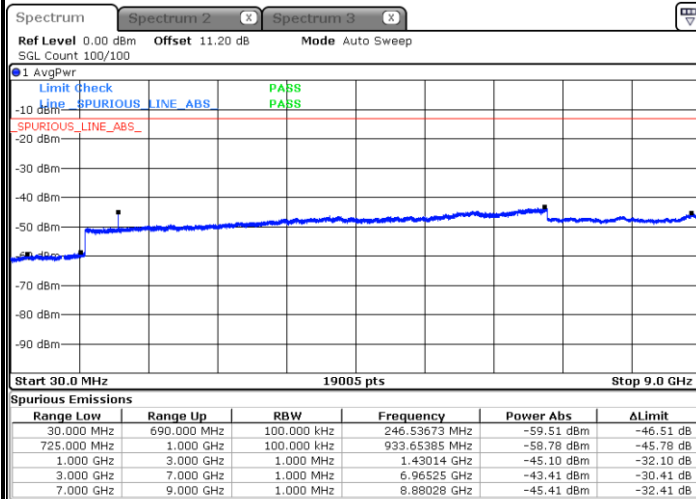
Date: 25 SEP 2020 01:10:56

Middle Channel / 64QAM



Date: 25 SEP 2020 01:11:59

Highest Channel / 64QAM

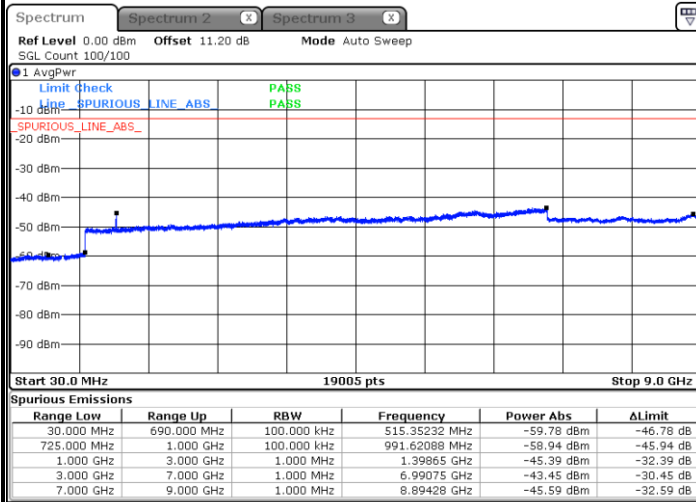


Date: 25 SEP 2020 01:15:06



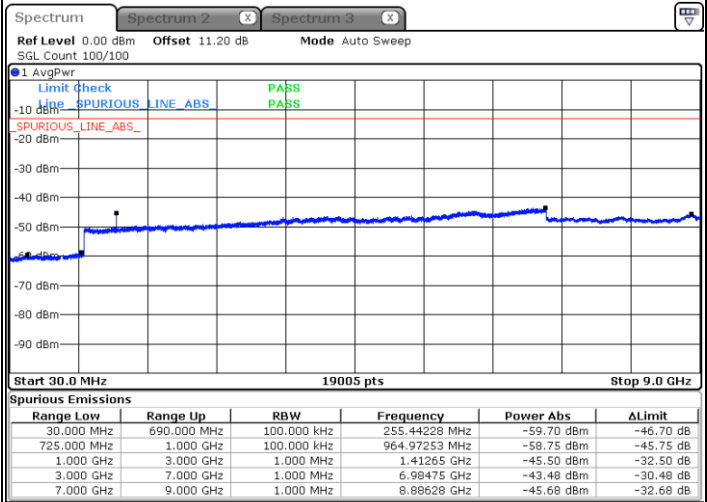
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



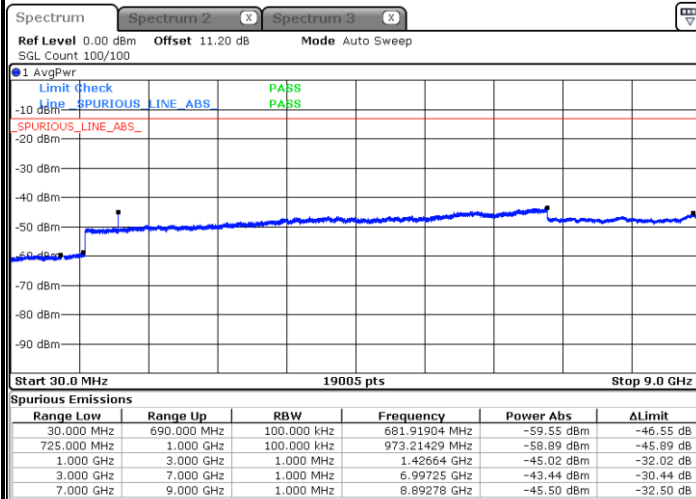
Date: 25 SEP 2020 01:39:39

Middle Channel / 64QAM



Date: 25 SEP 2020 01:40:43

Highest Channel / 64QAM

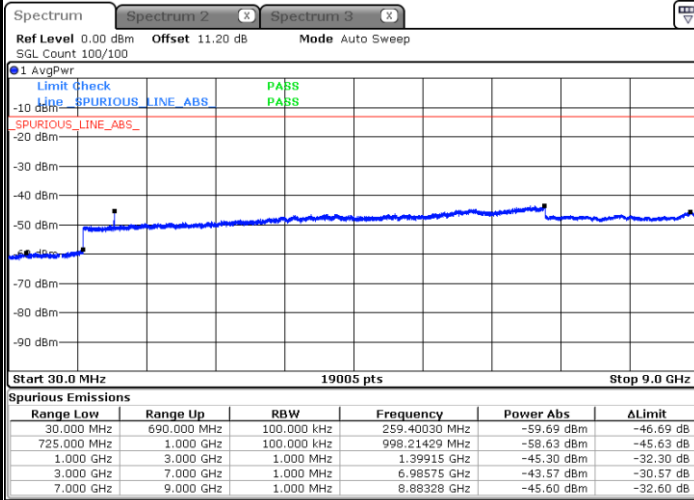


Date: 25 SEP 2020 01:43:48



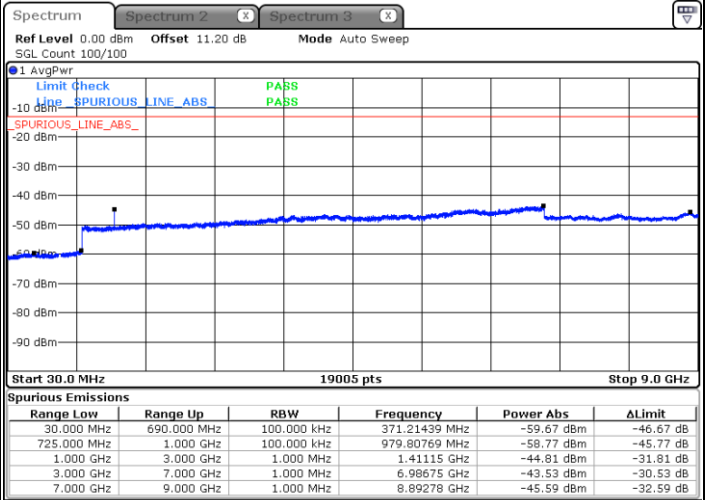
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



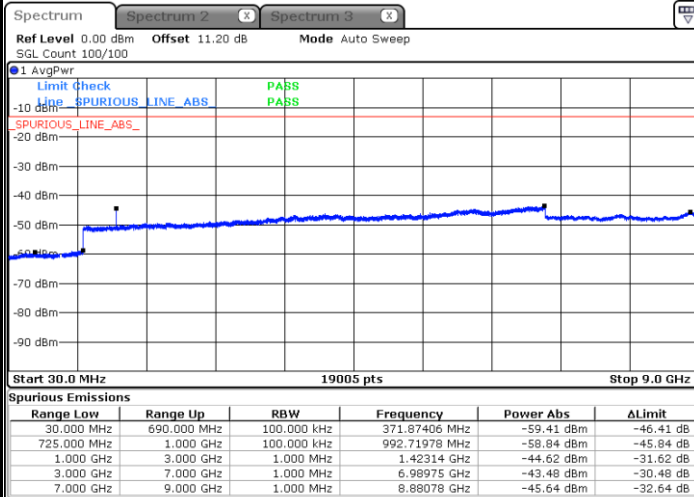
Date: 25 SEP 2020 01:46:56

Middle Channel / 64QAM



Date: 25 SEP 2020 01:48:00

Highest Channel / 64QAM

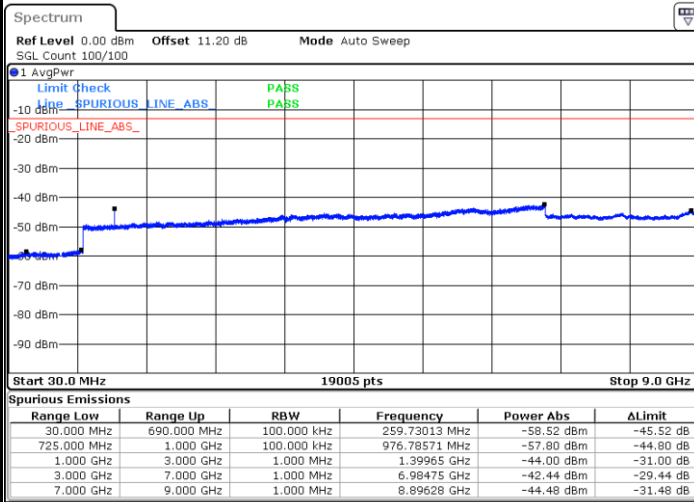


Date: 25 SEP 2020 01:51:05



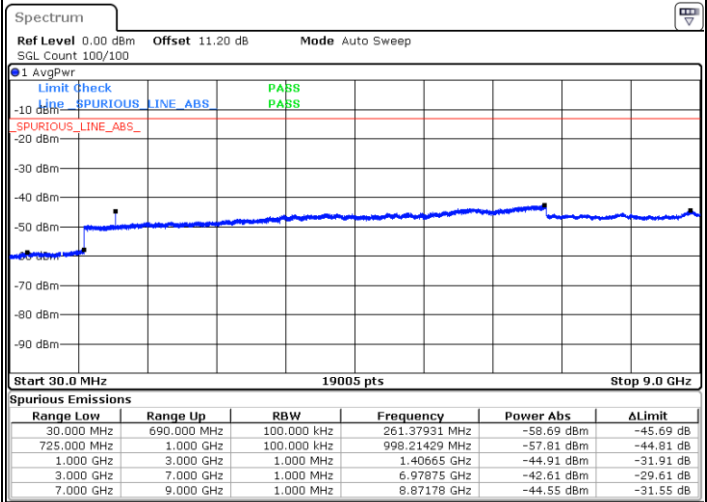
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



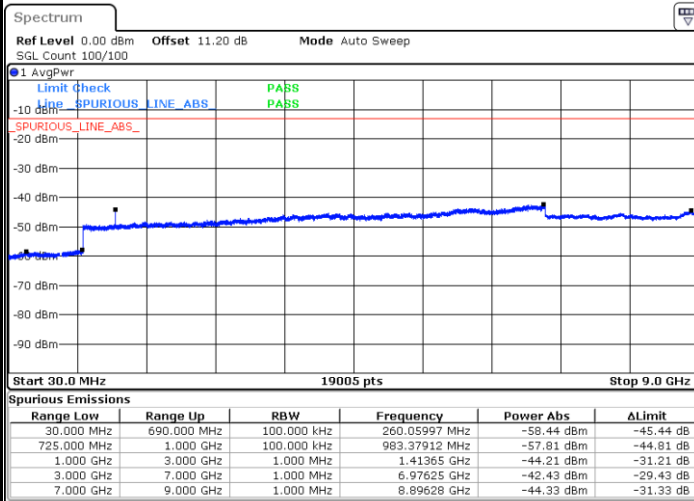
Date: 25 SEP 2020 19:40:47

Middle Channel / 64QAM



Date: 25 SEP 2020 19:41:50

Highest Channel / 64QAM



Date: 25 SEP 2020 19:44:55

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	0.0123	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0073	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0068	
0	Normal Voltage	0.0172	
-10	Normal Voltage	0.0133	
-20	Normal Voltage	0.0122	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.39 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

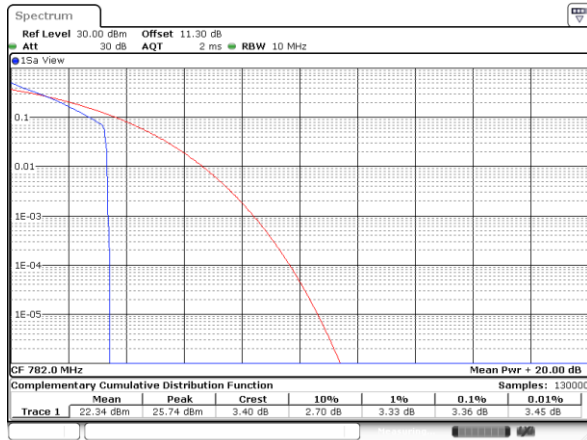
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.36	4.64	4.35	5.88	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.04	6.43	-	-	
Highest CH	-	-	-	-	

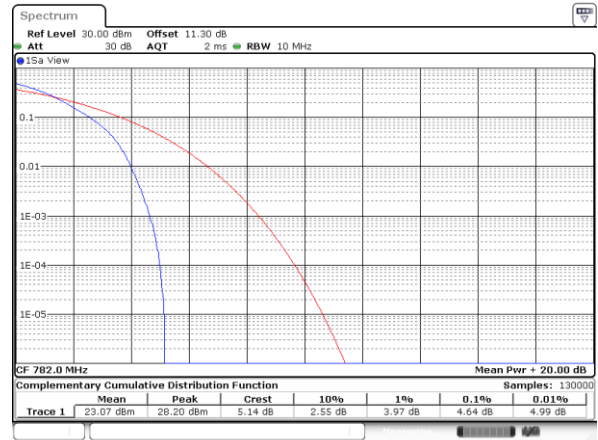


LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

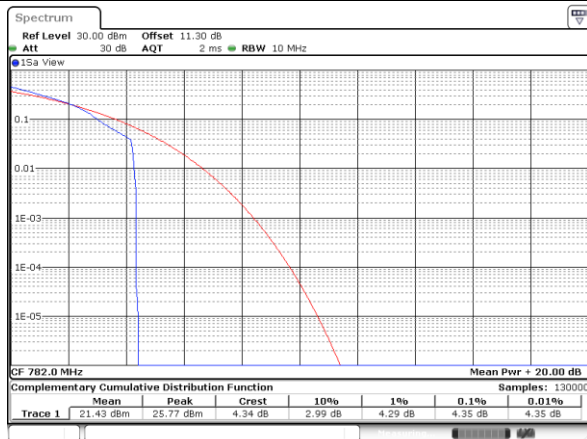


Middle Channel / Full RB

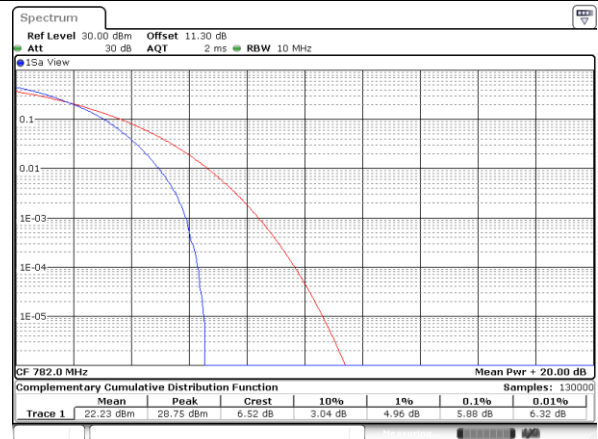


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

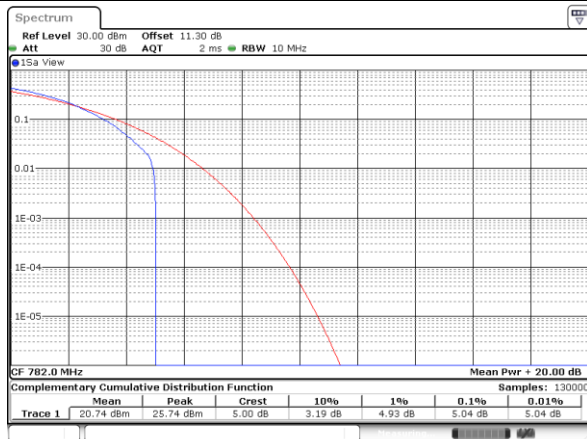


Middle Channel / Full RB

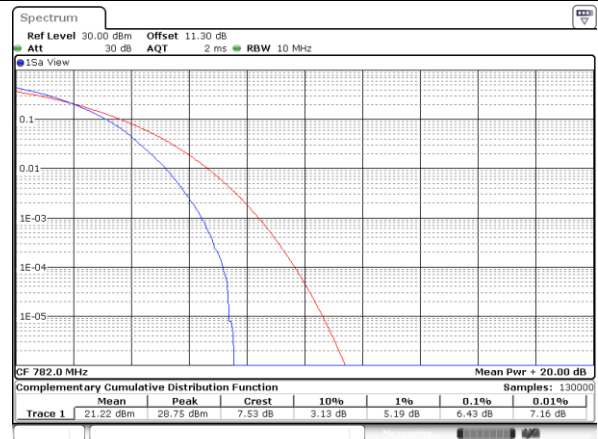


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB



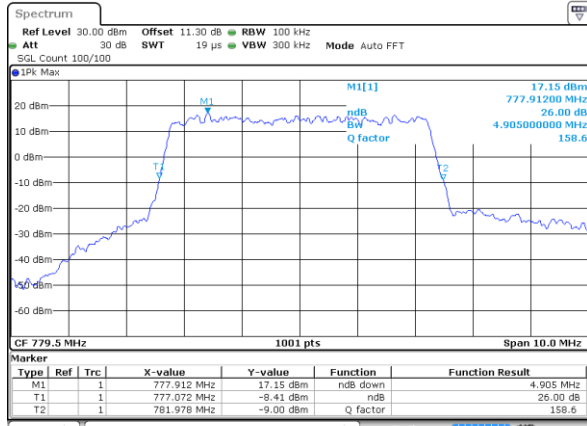
**26dB Bandwidth**

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	-	-	-	-	4.91	4.91	-	-	-	-	-	-
Middle CH	-	-	-	-	4.88	4.94	9.63	9.77	-	-	-	-
Highest CH	-	-	-	-	4.91	4.88	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.87	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.87	-	9.73	-	-	-	-	-
Highest CH	-	-	-	-	4.91	-	-	-	-	-	-	-

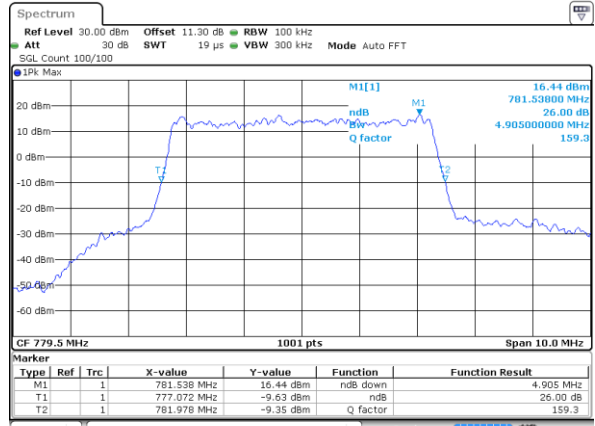


LTE Band 13

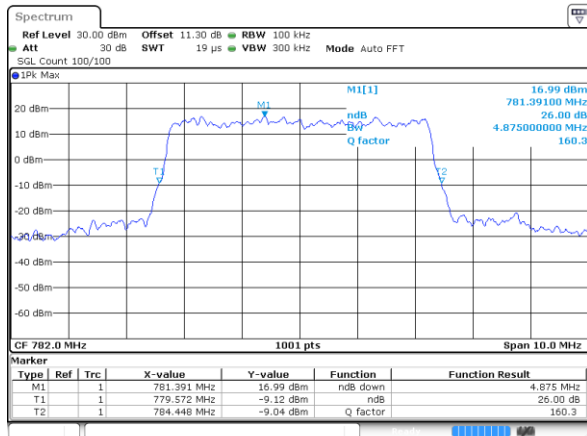
Lowest Channel / 5MHz / QPSK



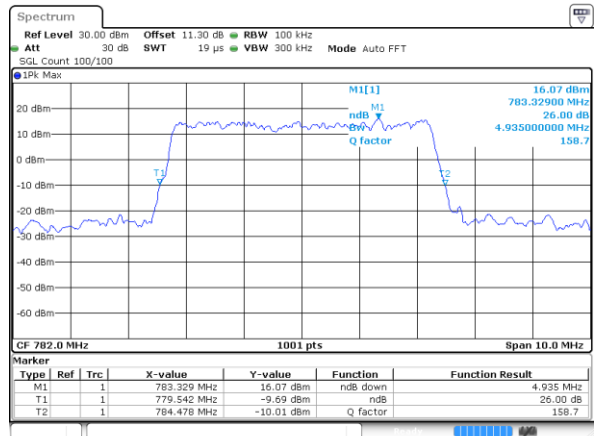
Lowest Channel / 5MHz / 16QAM



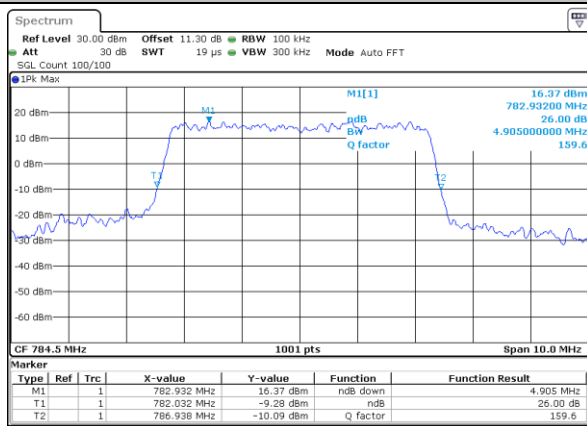
Middle Channel / 5MHz / QPSK



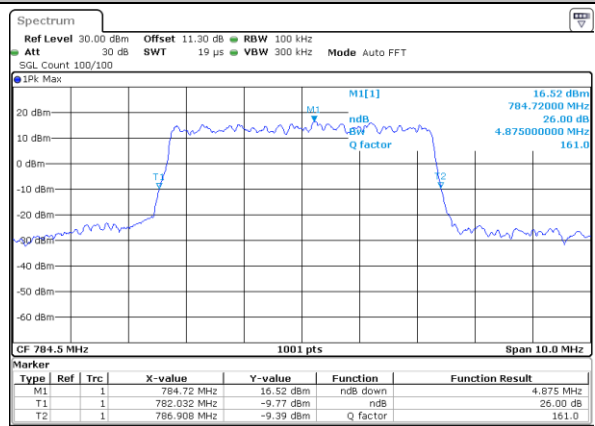
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



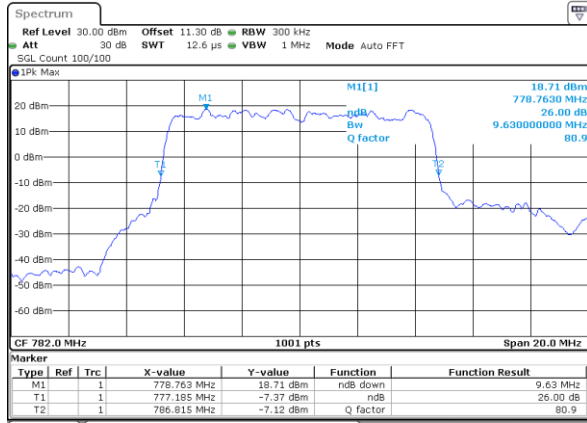
Highest Channel / 5MHz / 16QAM





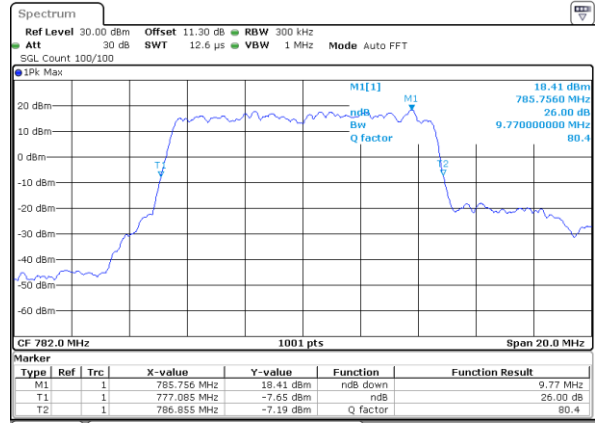
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 25 SEP 2020 21:14:20

Middle Channel / 10MHz / 16QAM

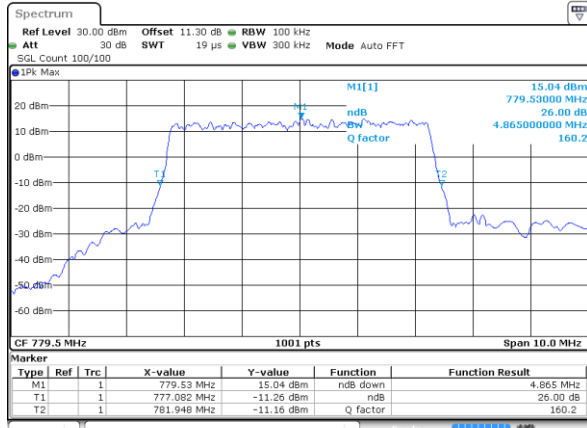


Date: 25 SEP 2020 21:14:09



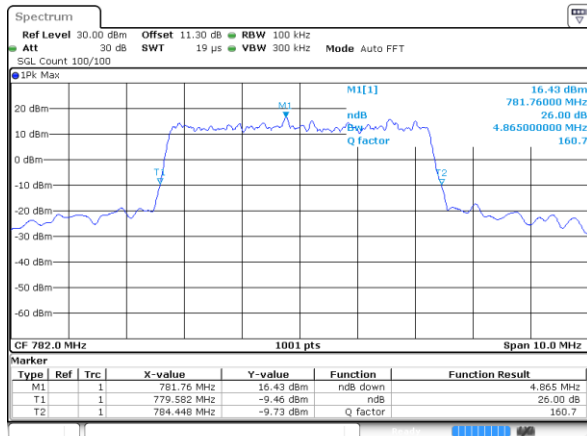
LTE Band 13

Lowest Channel / 5MHz / 64QAM



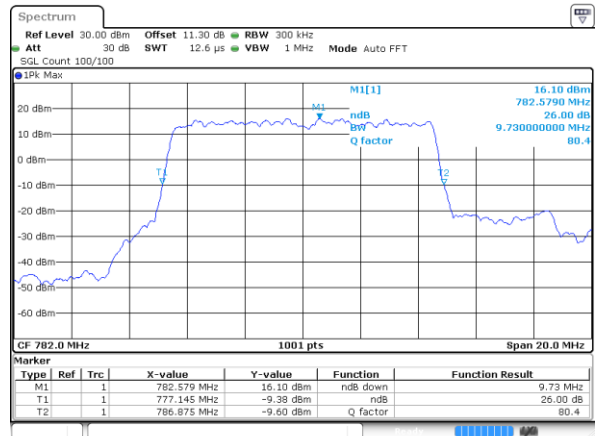
Date: 25 SEP 2020 21:04:04

Middle Channel / 5MHz / 64QAM



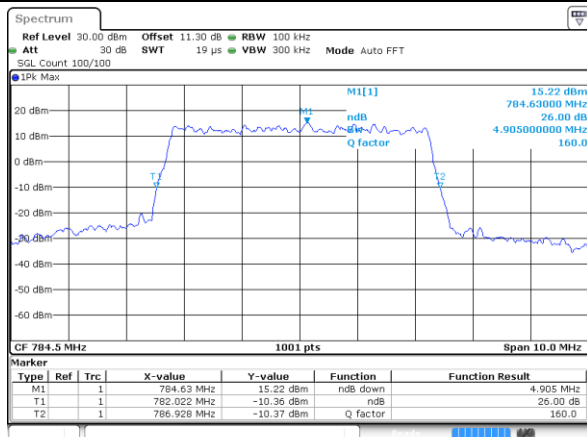
Date: 25 SEP 2020 21:08:57

Middle Channel / 10MHz / 64QAM



Date: 25 SEP 2020 21:26:03

Highest Channel / 5MHz / 64QAM



Date: 25 SEP 2020 21:09:32

**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	-	-	-	-	4.49	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.49	8.99	8.97	-	-	-	-
Highest CH	-	-	-	-	4.50	4.49	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	-	-