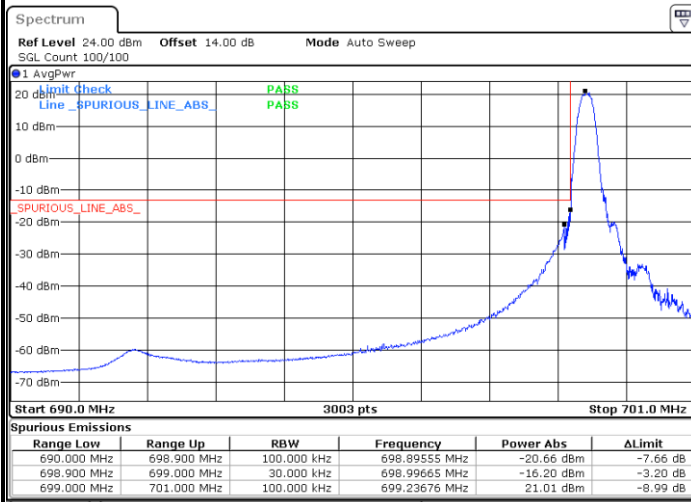


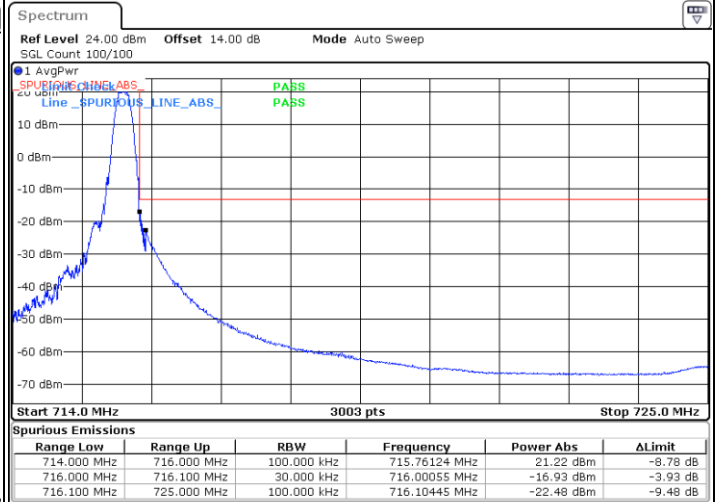


LTE Band 12 / 1.4MHz / 16QAM

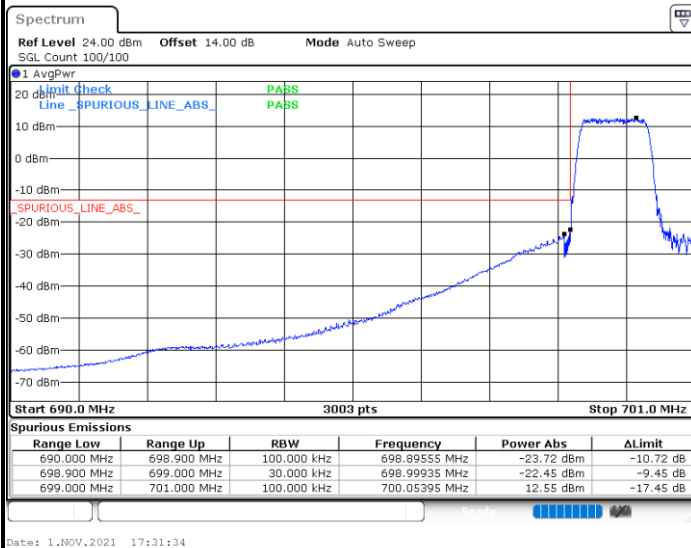
Lowest Band Edge / 1 RB



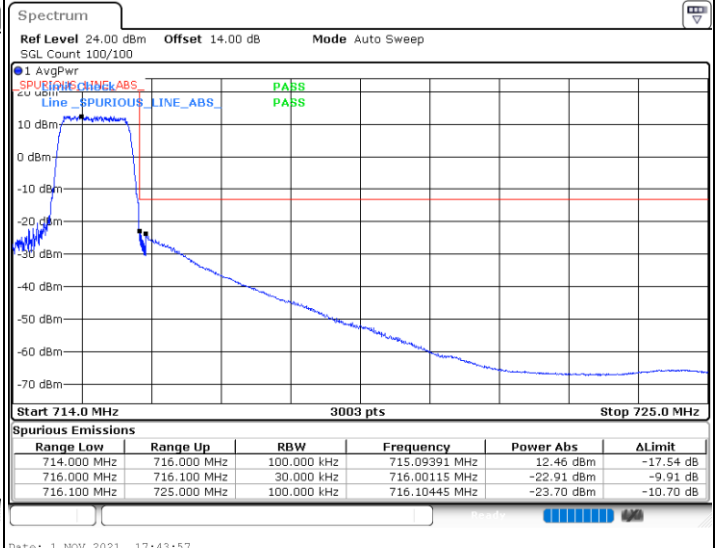
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



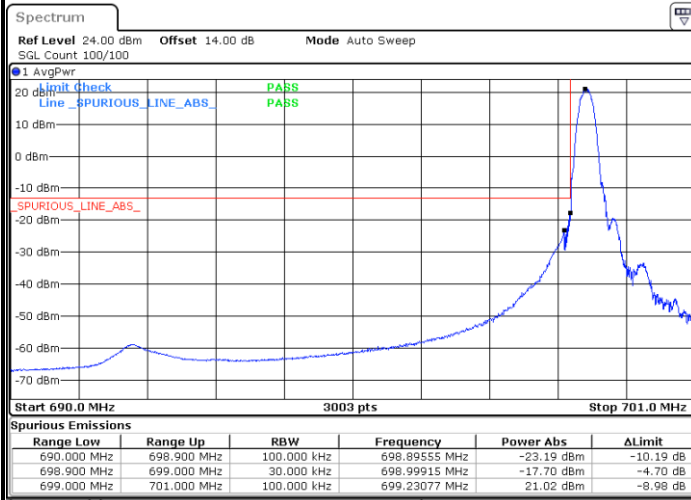
Highest Band Edge / Full RB



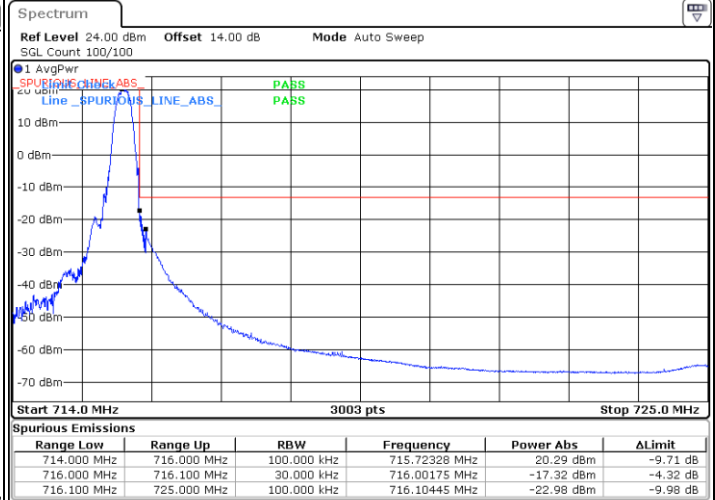


LTE Band 12 / 1.4MHz / 64QAM

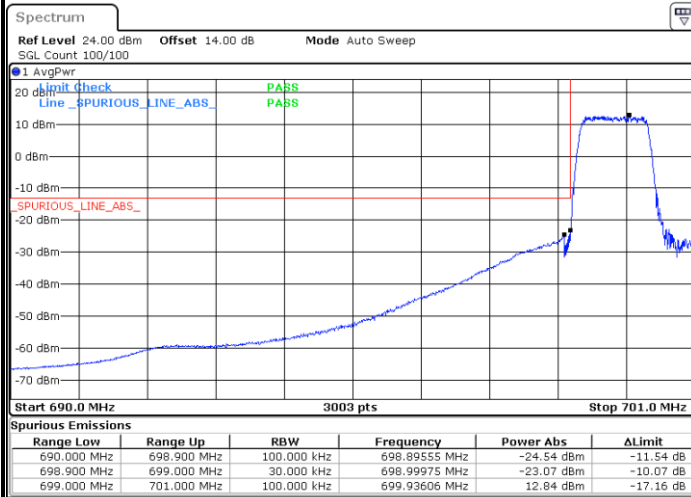
Lowest Band Edge / 1 RB



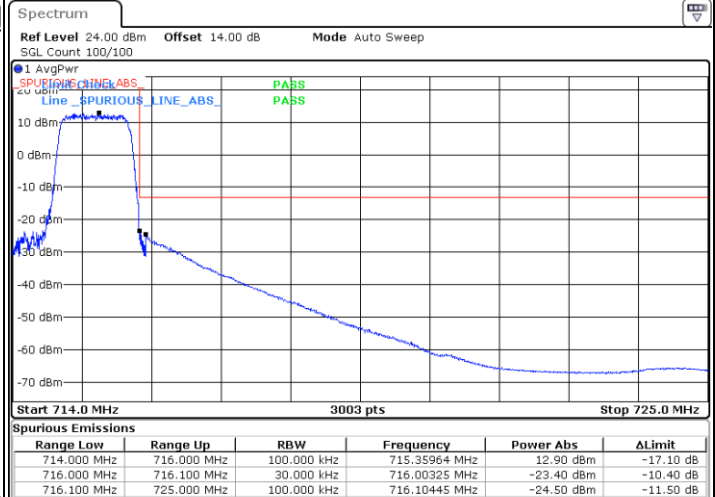
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



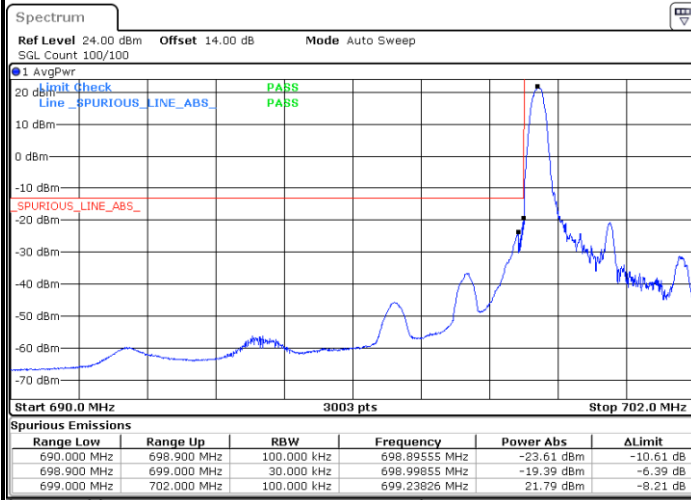
Highest Band Edge / Full RB



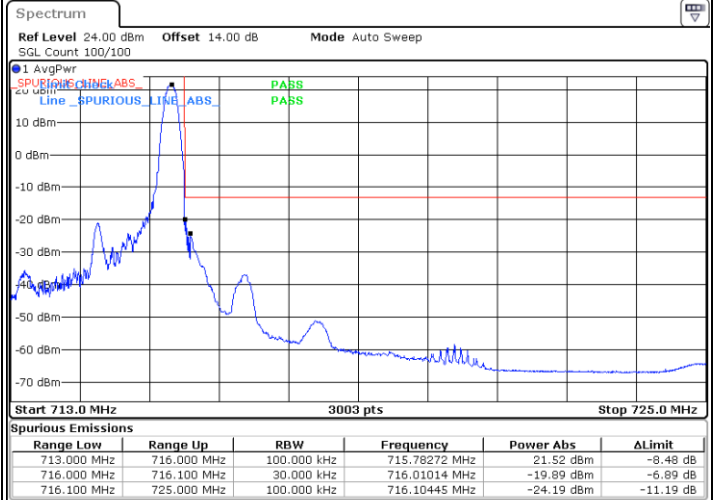


LTE Band 12 / 3MHz / QPSK

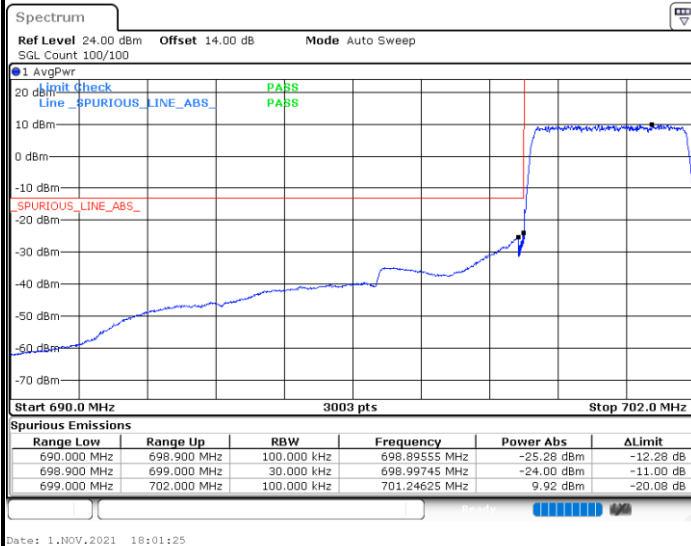
Lowest Band Edge / 1RB



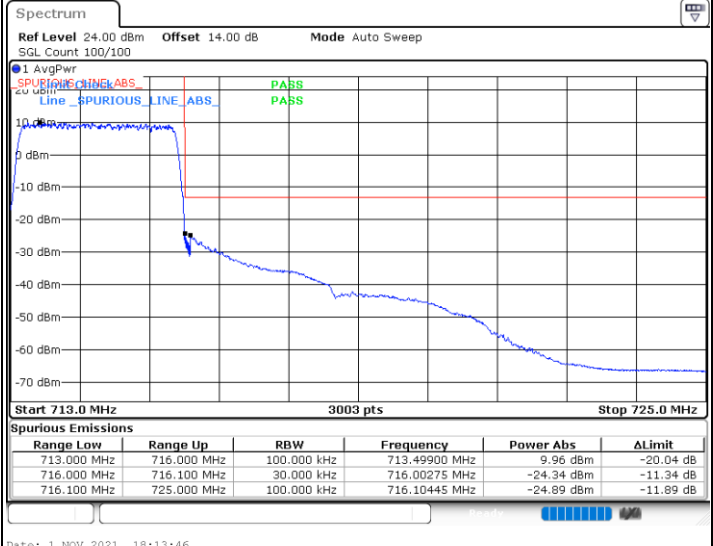
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



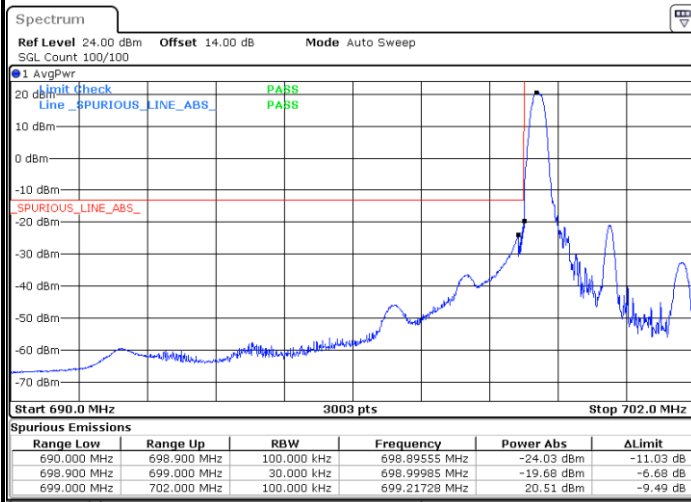
Highest Band Edge / Full RB



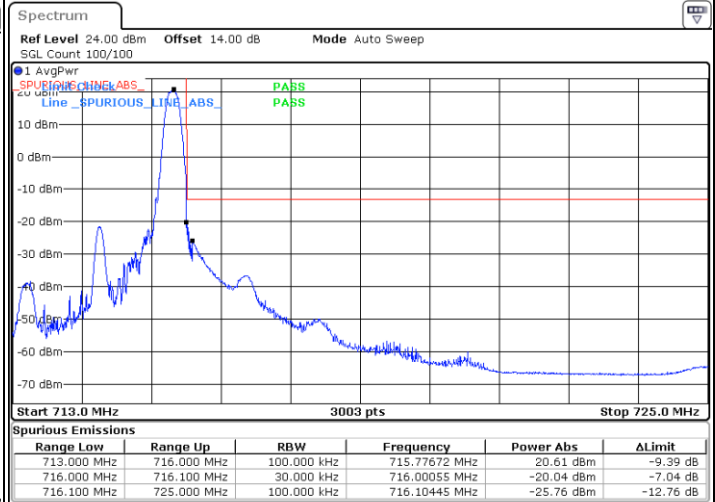


LTE Band 12 / 3MHz / 16QAM

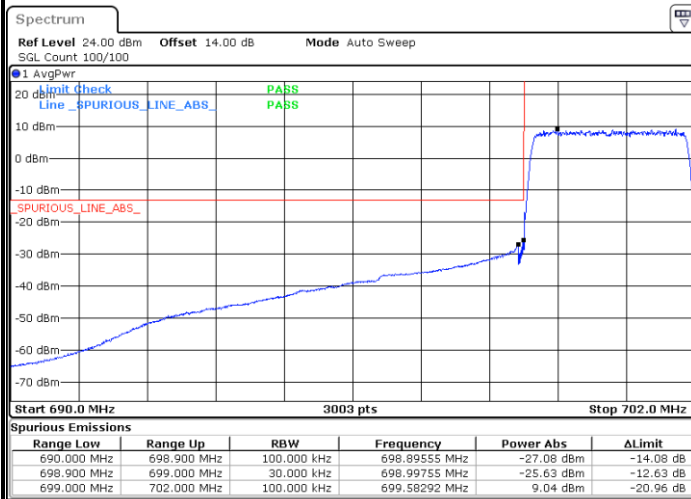
Lowest Band Edge / 1 RB



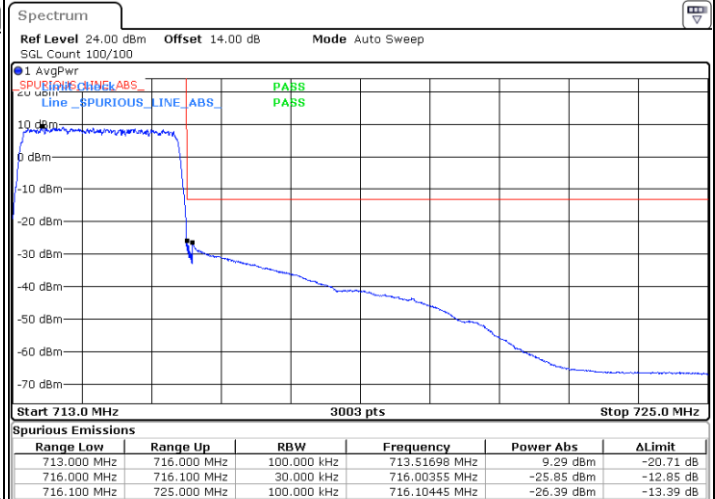
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



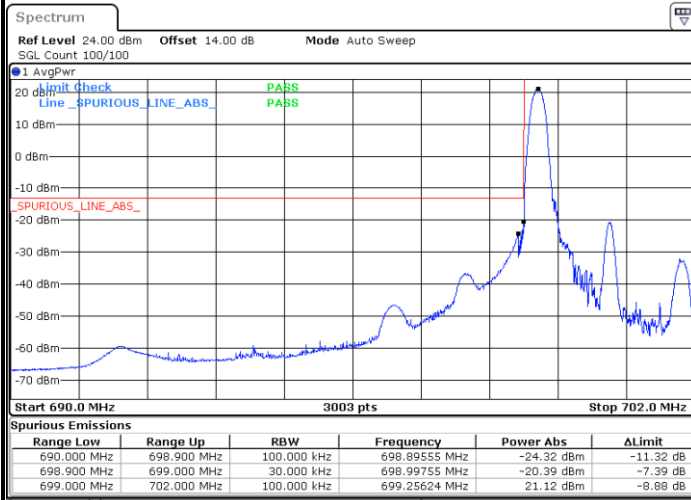
Highest Band Edge / Full RB



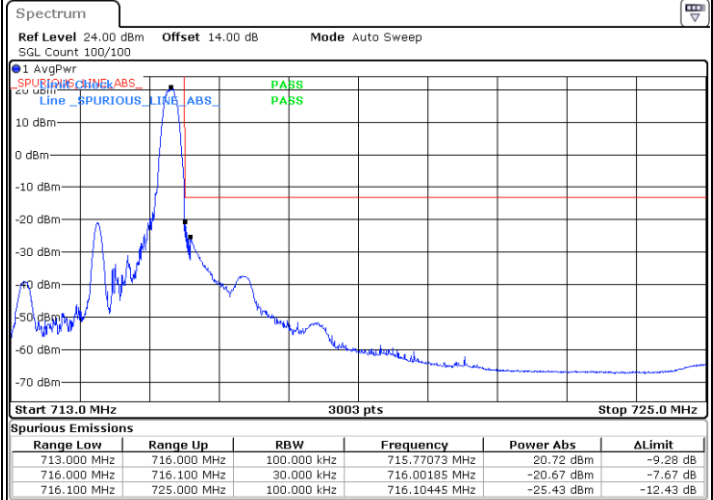


LTE Band 12 / 3MHz / 64QAM

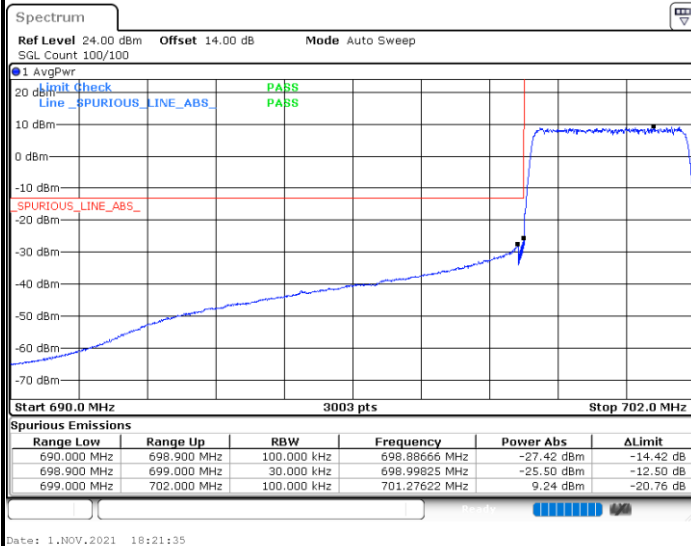
Lowest Band Edge / 1 RB



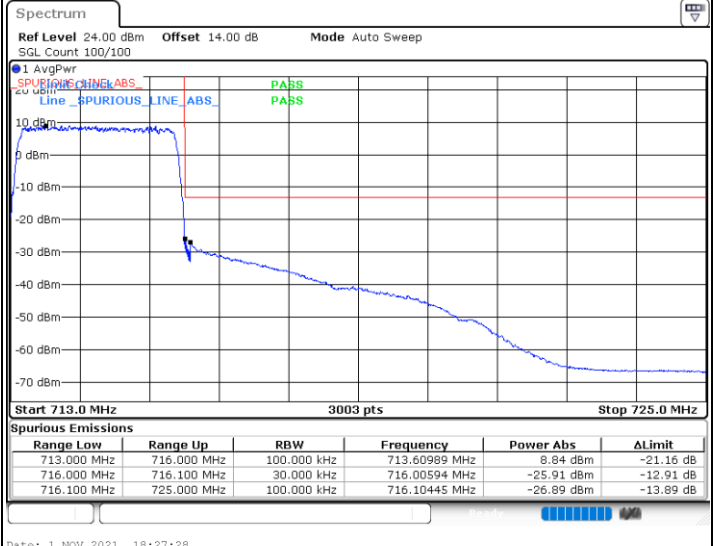
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



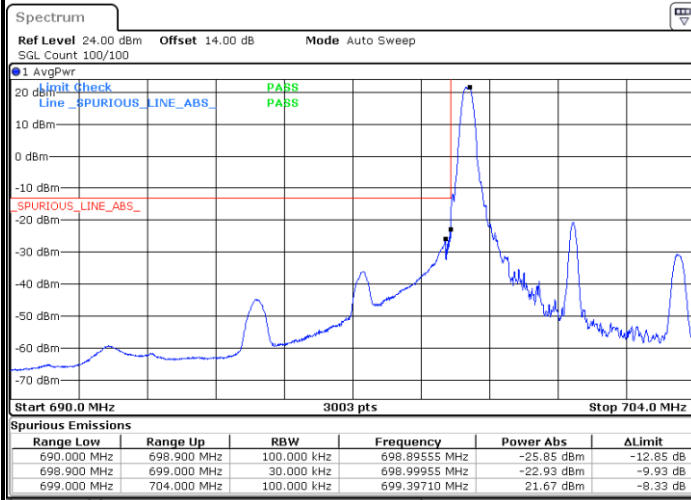
Highest Band Edge / Full RB



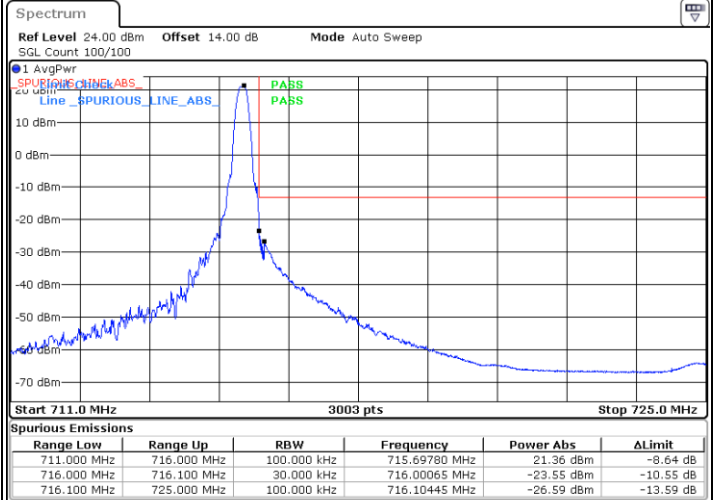


LTE Band 12 / 5MHz / QPSK

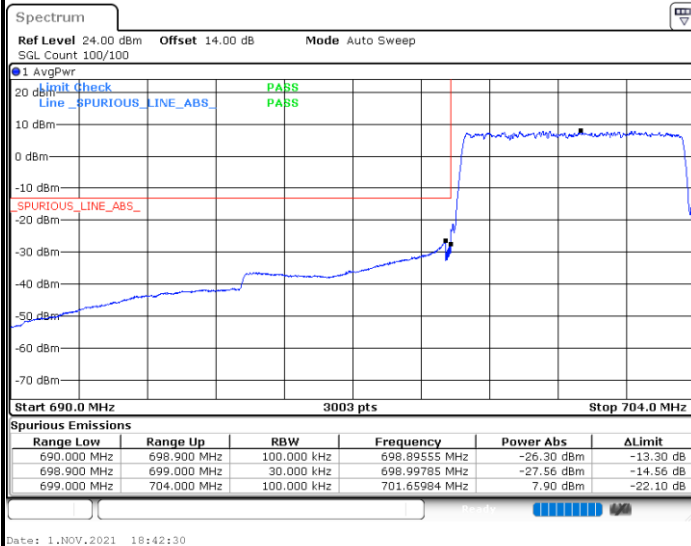
Lowest Band Edge / 1 RB



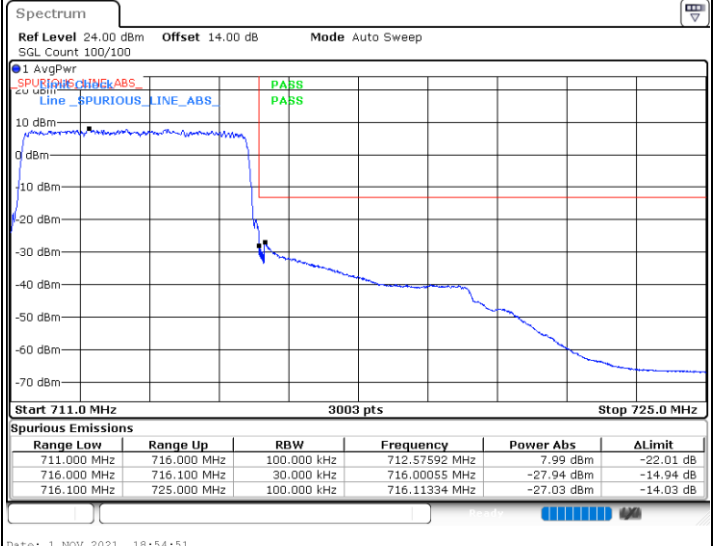
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



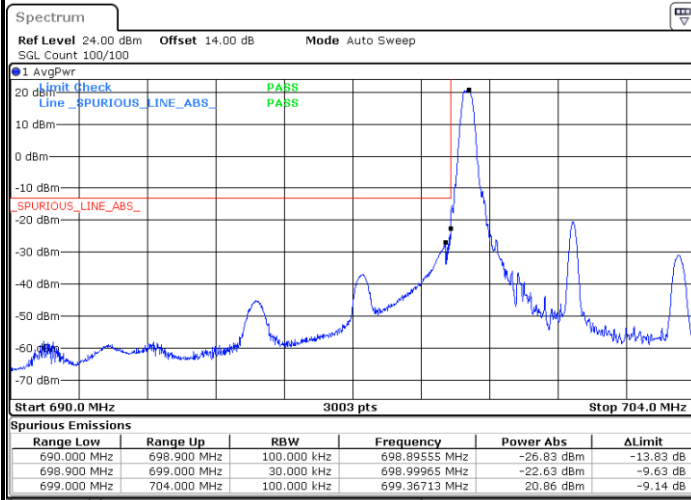
Highest Band Edge / Full RB



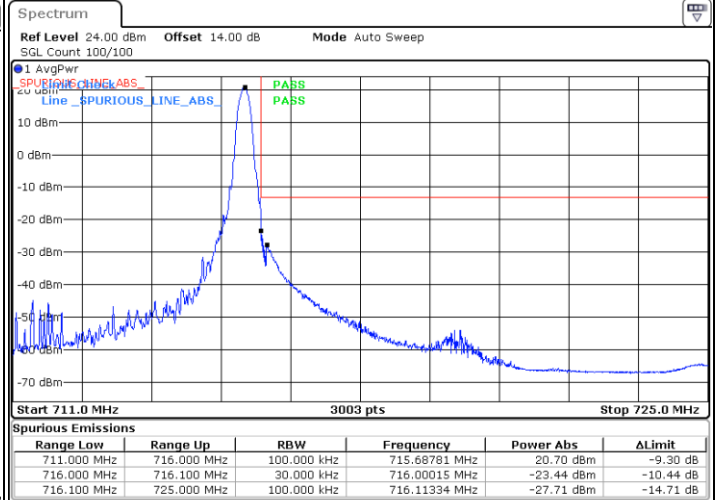


LTE Band 12 / 5MHz / 16QAM

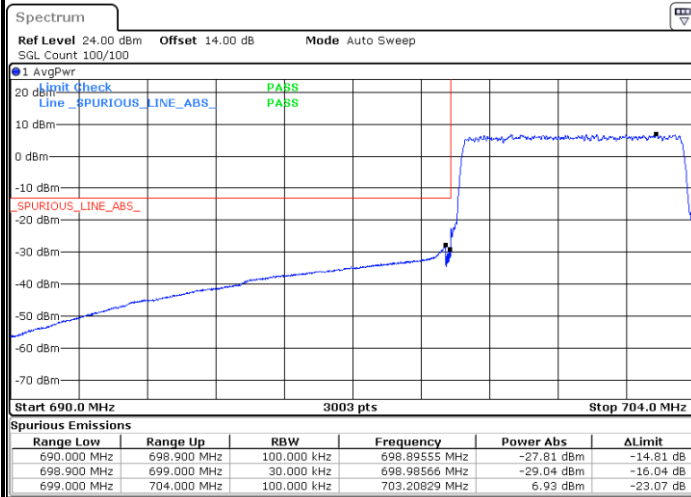
Lowest Band Edge / 1RB



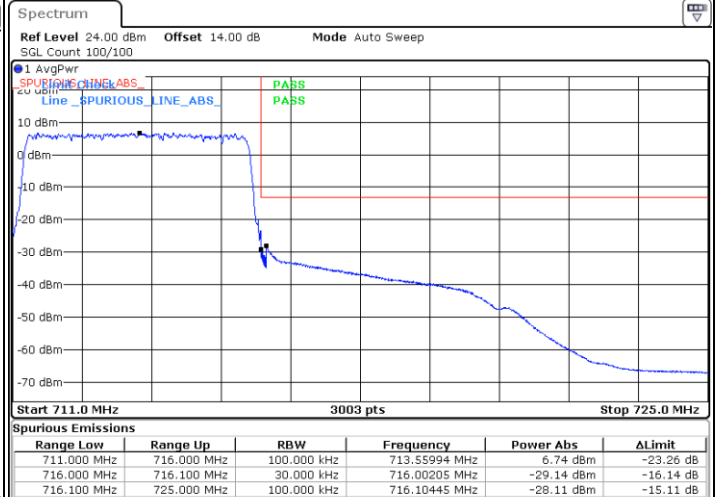
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



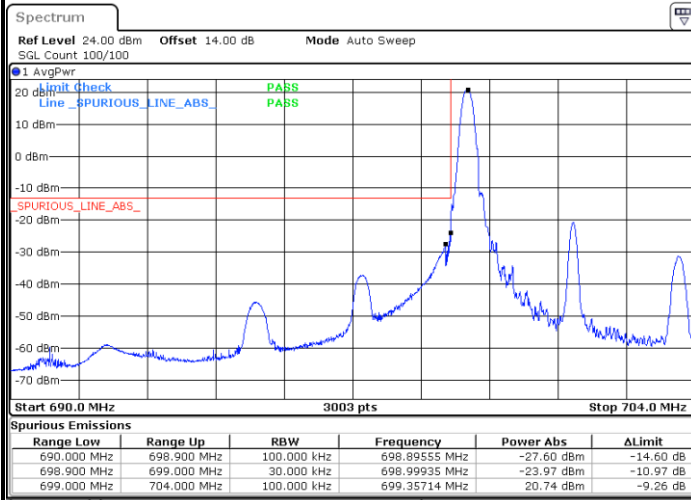
Highest Band Edge / Full RB



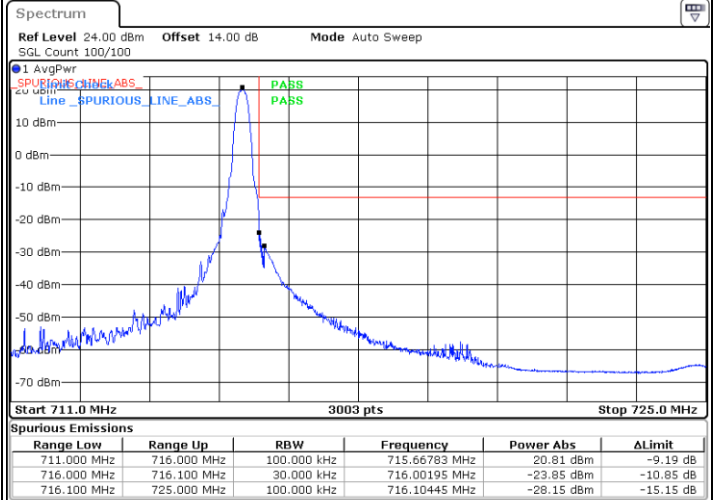


LTE Band 12 / 5MHz / 64QAM

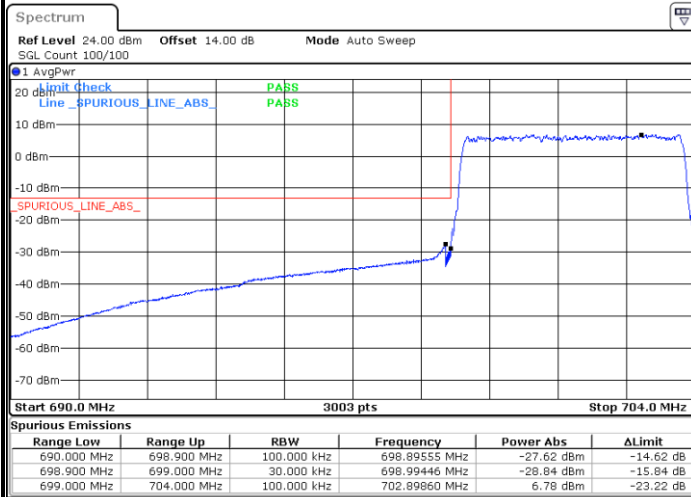
Lowest Band Edge / 1RB



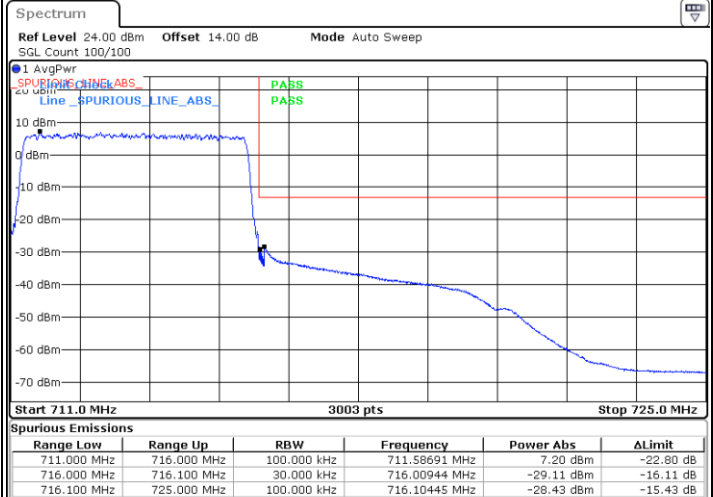
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



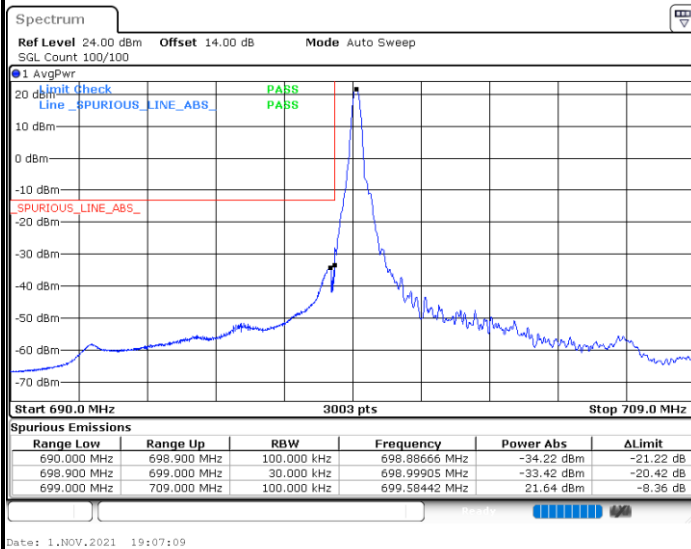
Highest Band Edge / Full RB



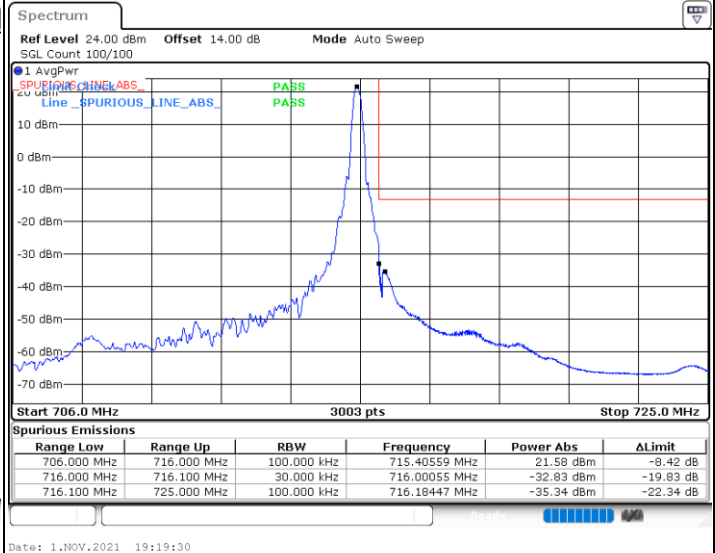


LTE Band 12 / 10MHz / QPSK

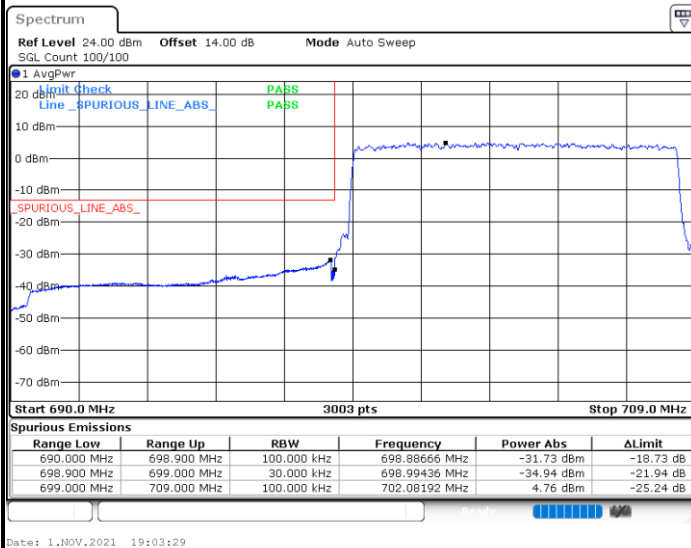
Lowest Band Edge / 1 RB



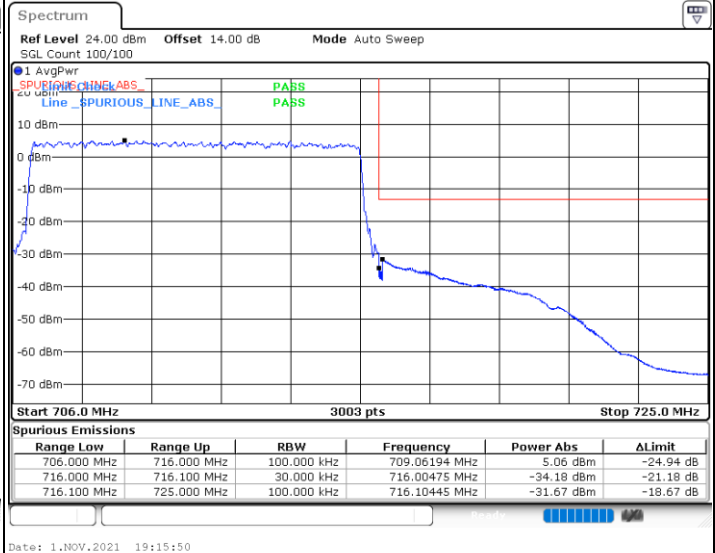
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



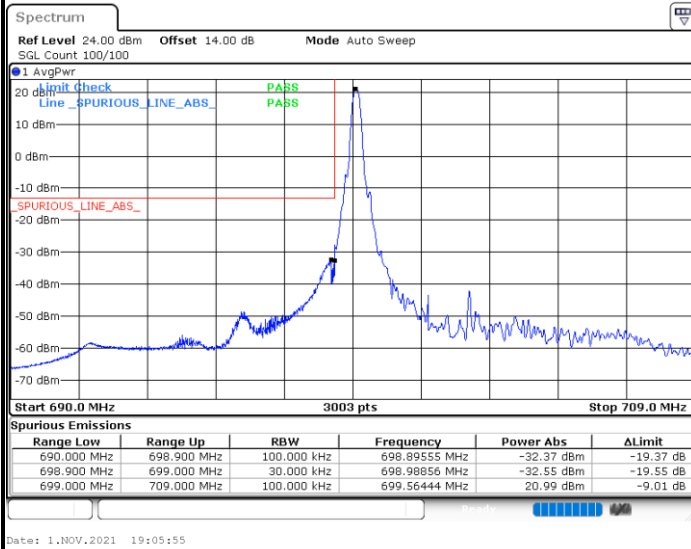
Highest Band Edge / Full RB



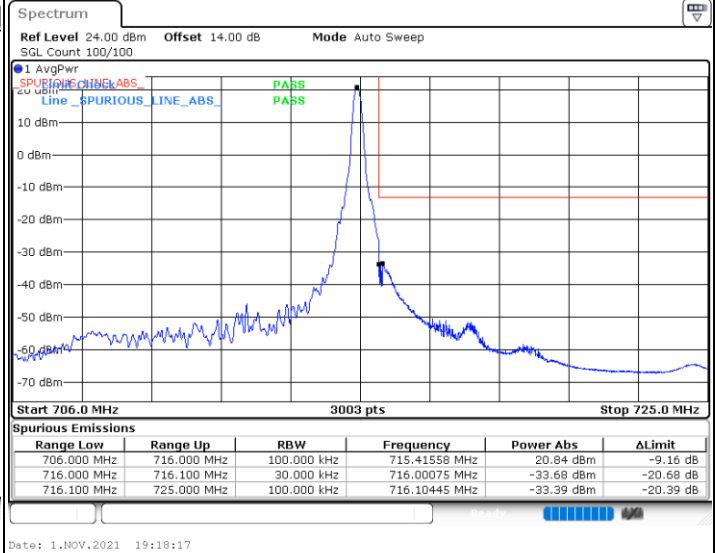


LTE Band 12 / 10MHz / 16QAM

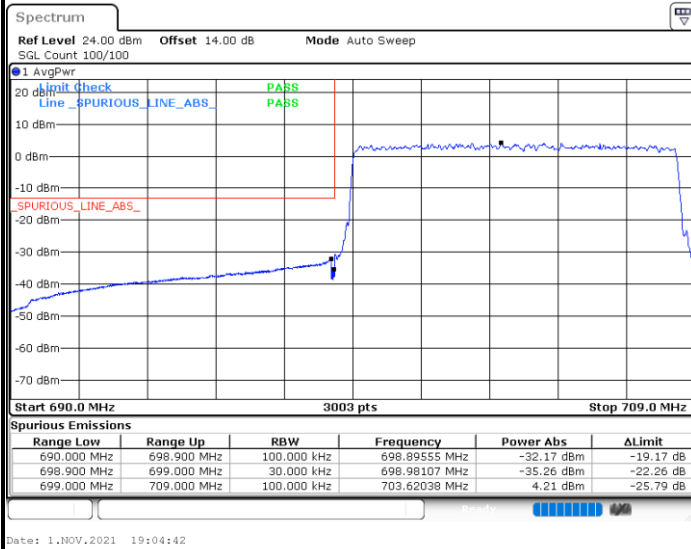
Lowest Band Edge / 1 RB



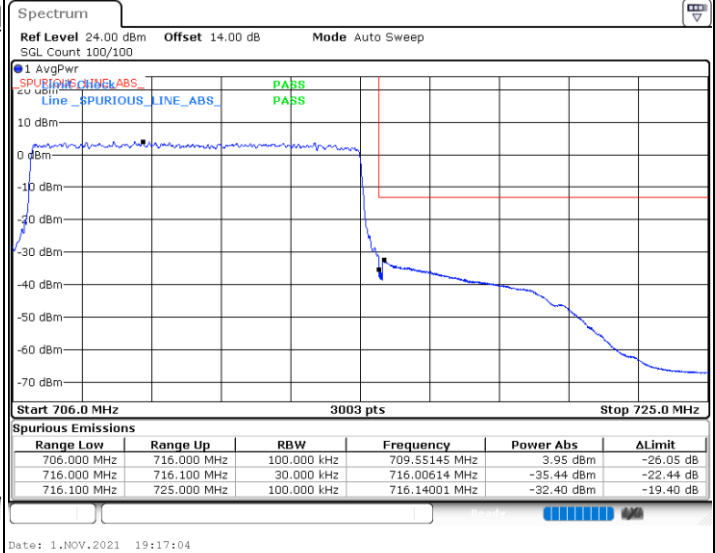
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



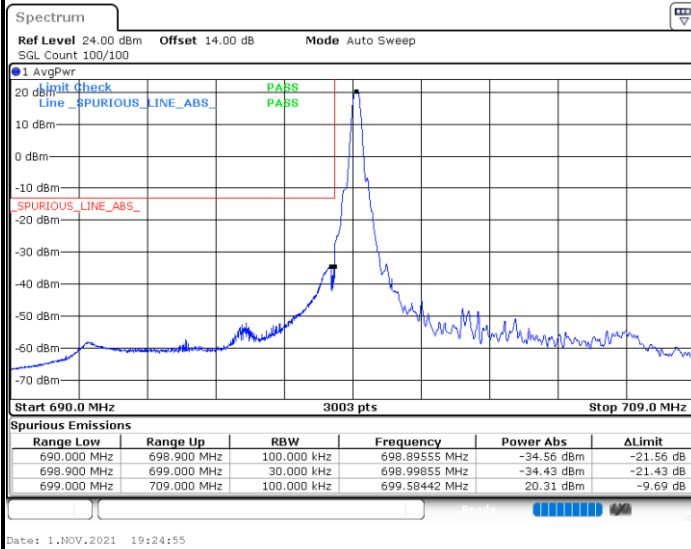
Highest Band Edge / Full RB



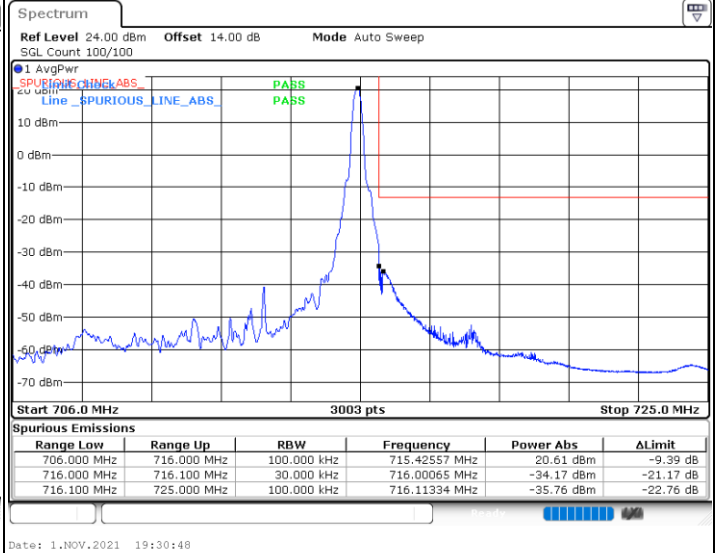


LTE Band 12 / 10MHz / 64QAM

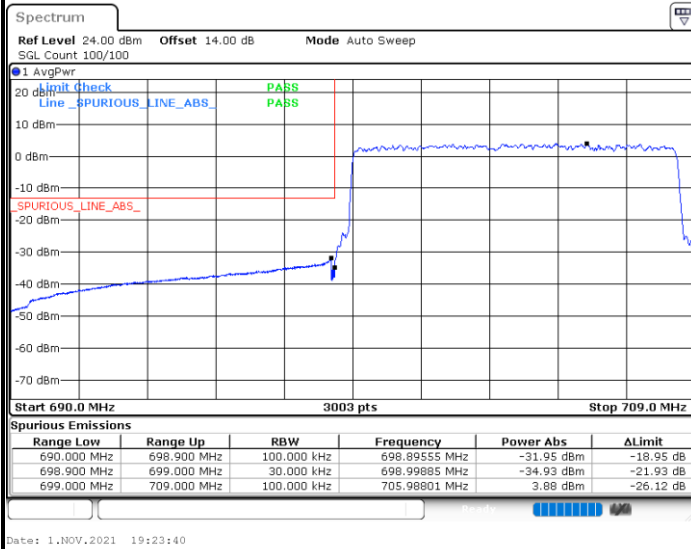
Lowest Band Edge / 1 RB



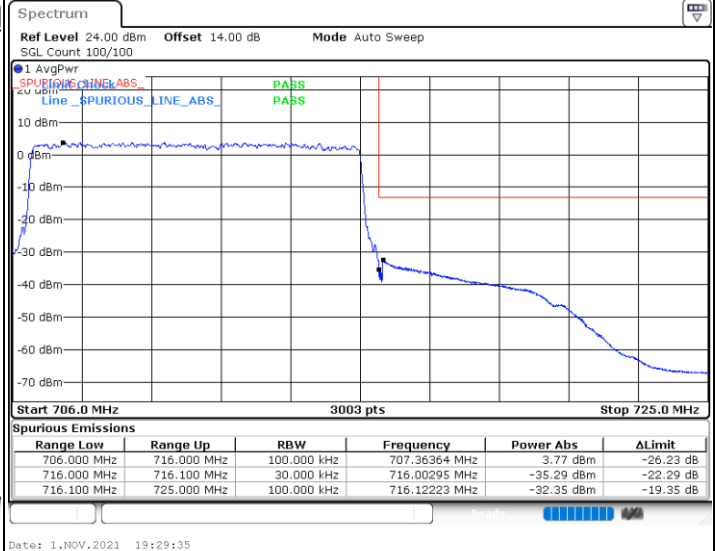
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

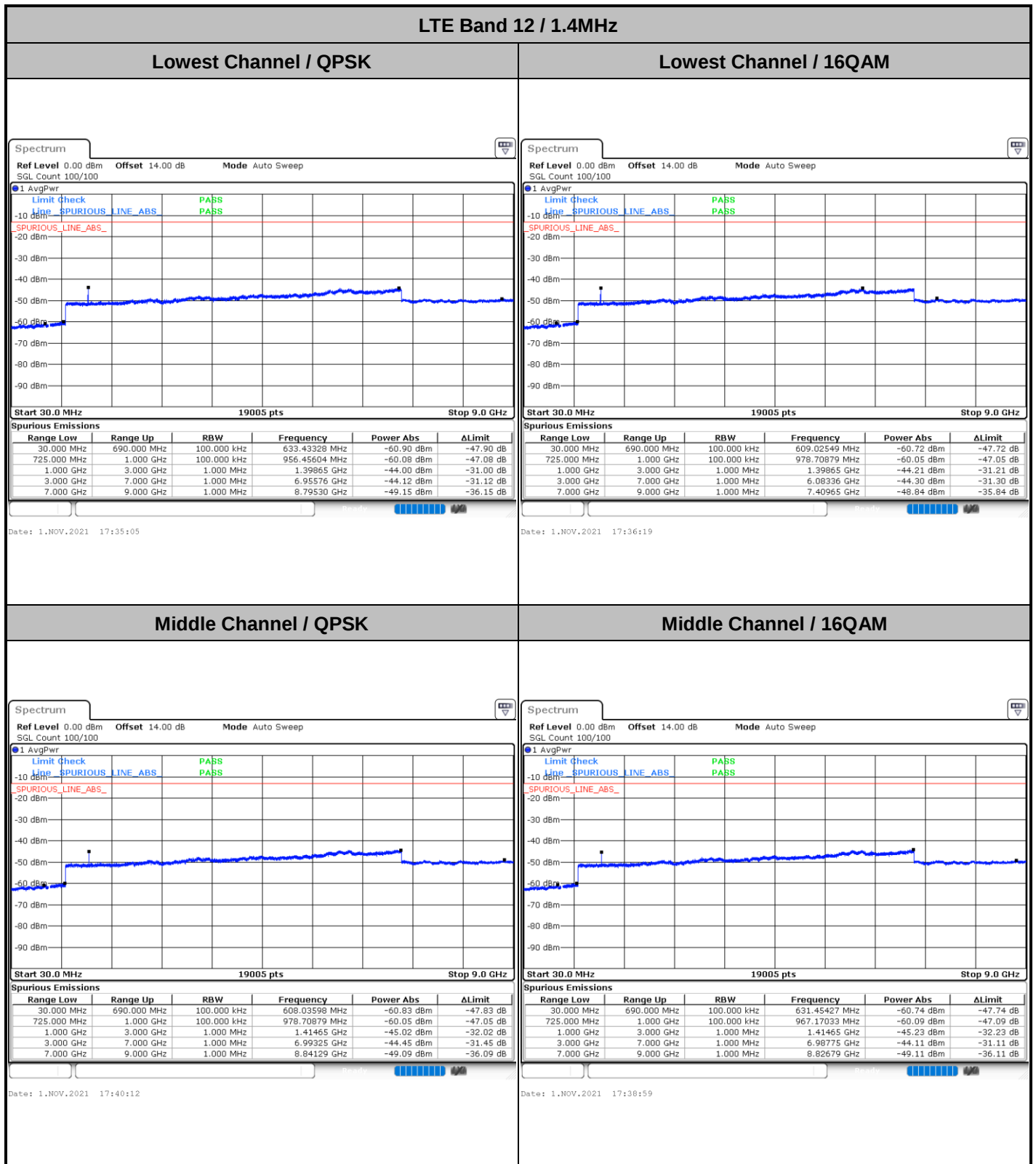


Highest Band Edge / Full RB





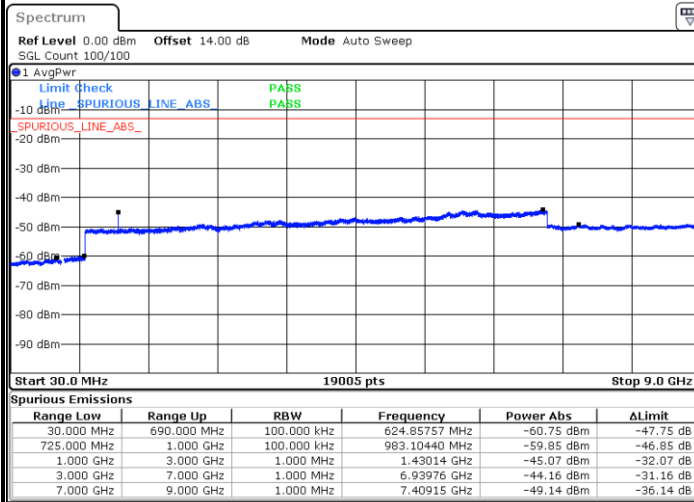
Conducted Spurious Emission





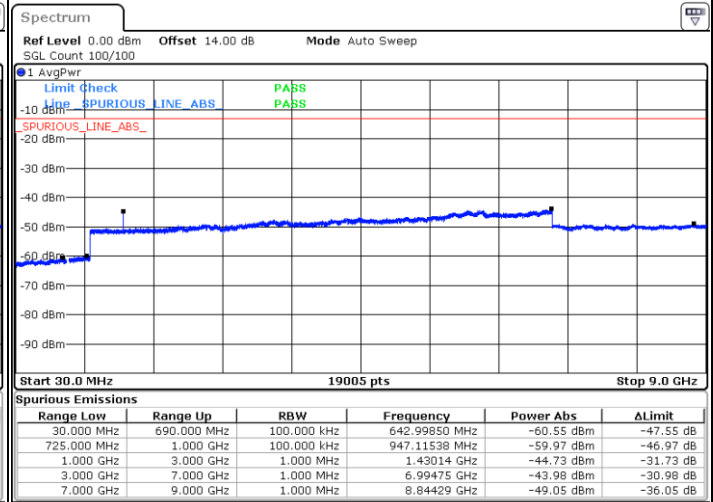
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 1.NOV.2021 17:47:37

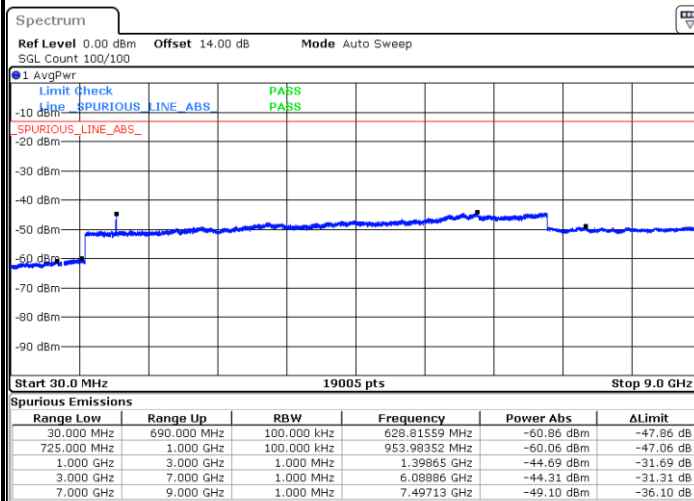
Highest Channel / 16QAM



Date: 1.NOV.2021 17:48:51

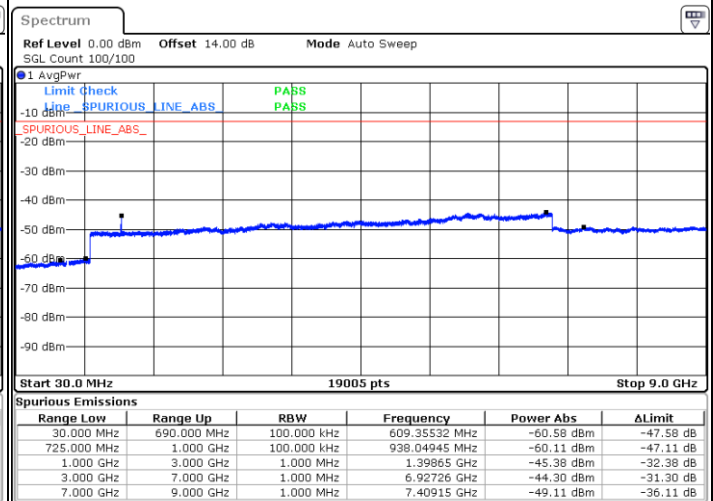
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 1.NOV.2021 18:06:09

Lowest Channel / 16QAM

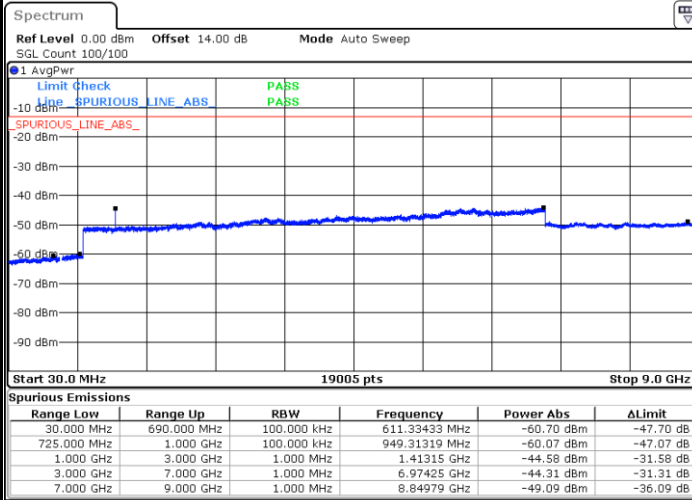


Date: 1.NOV.2021 18:07:22



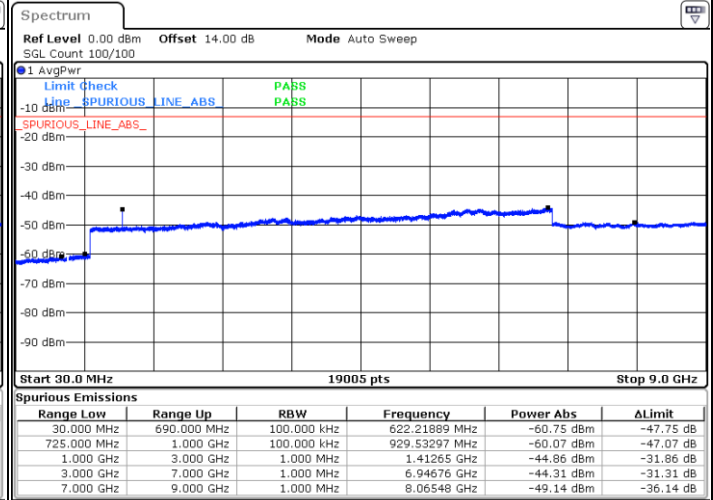
LTE Band 12 / 3MHz

Middle Channel / QPSK



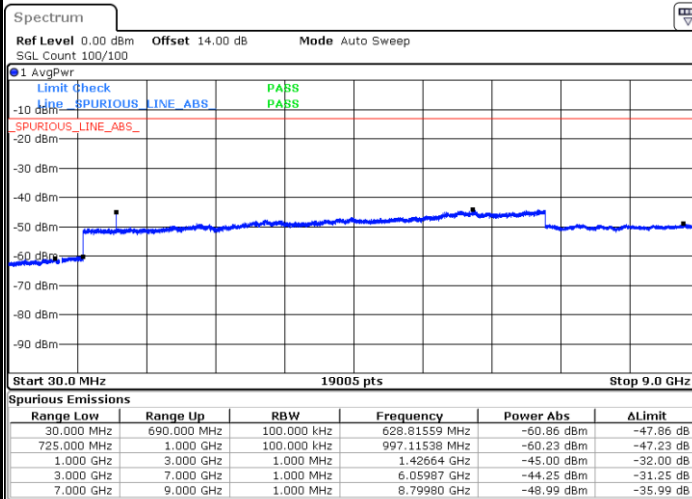
Date: 1.NOV.2021 18:11:15

Middle Channel / 16QAM



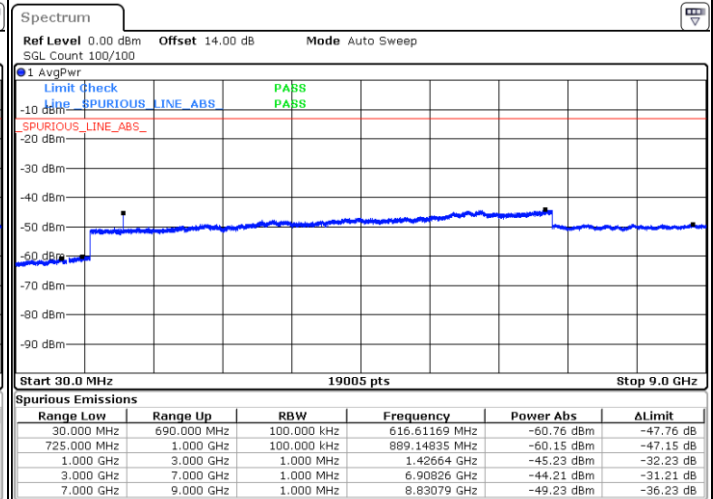
Date: 1.NOV.2021 18:10:02

Highest Channel / QPSK



Date: 1.NOV.2021 18:18:39

Highest Channel / 16QAM

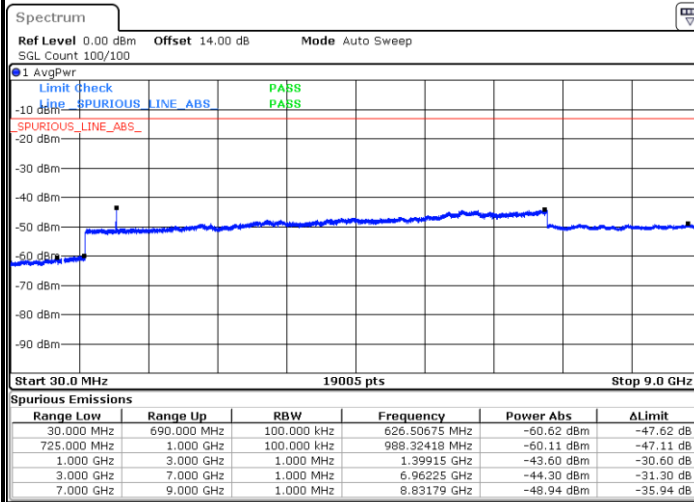


Date: 1.NOV.2021 18:19:52



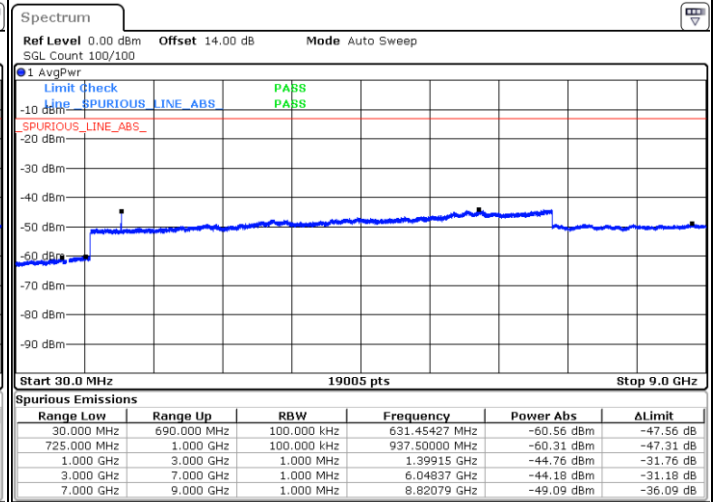
LTE Band 12 / 5MHz

Lowest Channel / QPSK



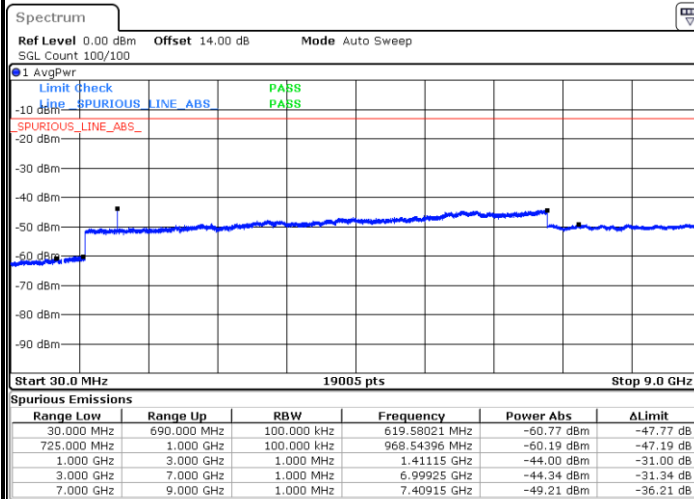
Date: 1.NOV.2021 18:47:13

Lowest Channel / 16QAM



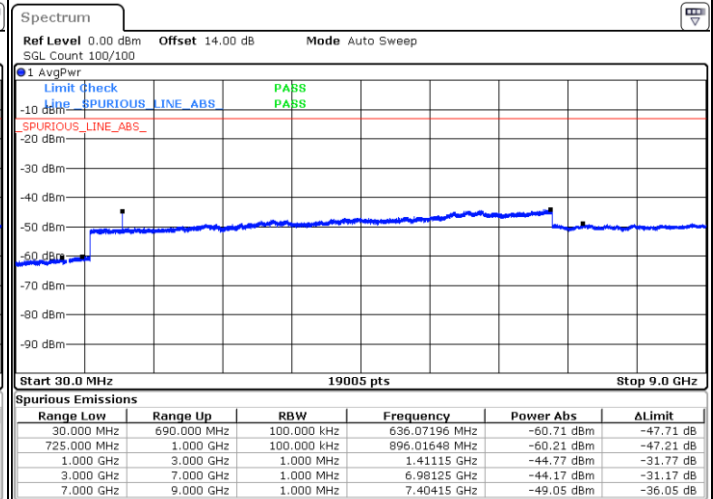
Date: 1.NOV.2021 18:48:27

Middle Channel / QPSK



Date: 1.NOV.2021 18:52:19

Middle Channel / 16QAM

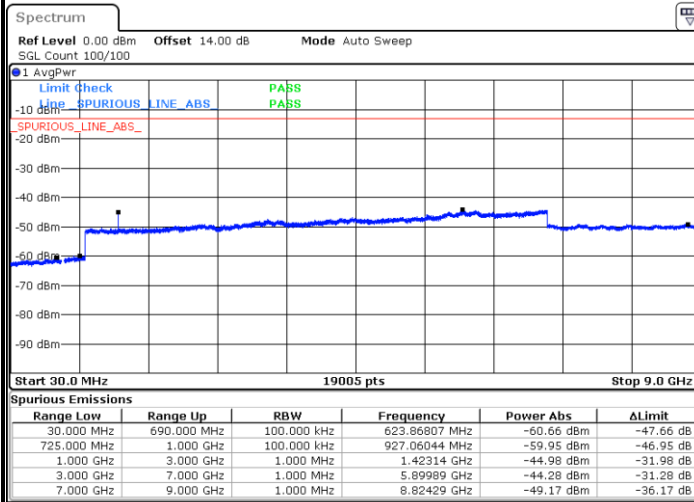


Date: 1.NOV.2021 18:51:06



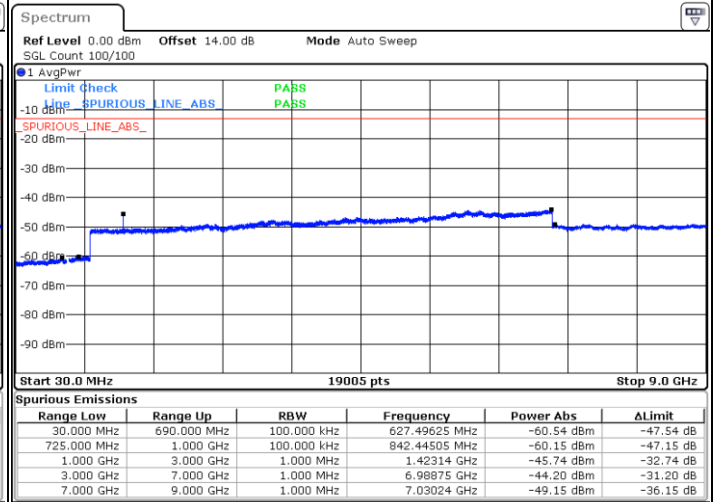
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 1.NOV.2021 19:00:57

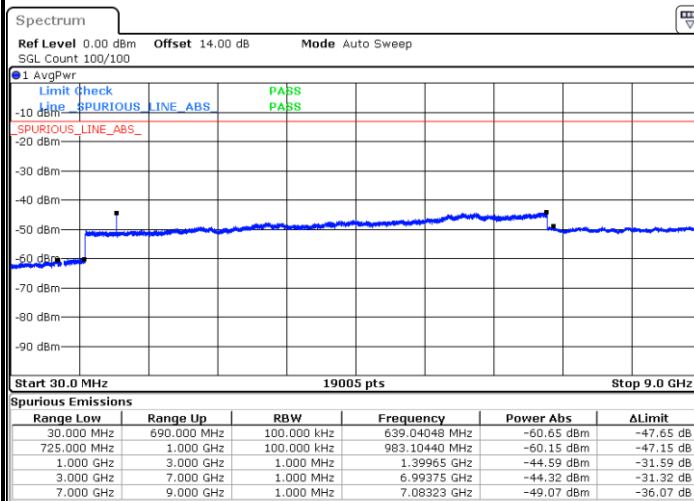
Highest Channel / 16QAM



Date: 1.NOV.2021 18:59:43

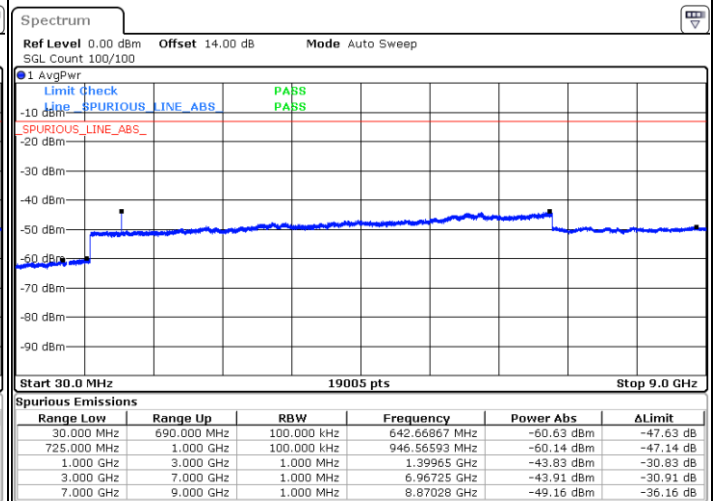
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 1.NOV.2021 19:08:13

Lowest Channel / 16QAM

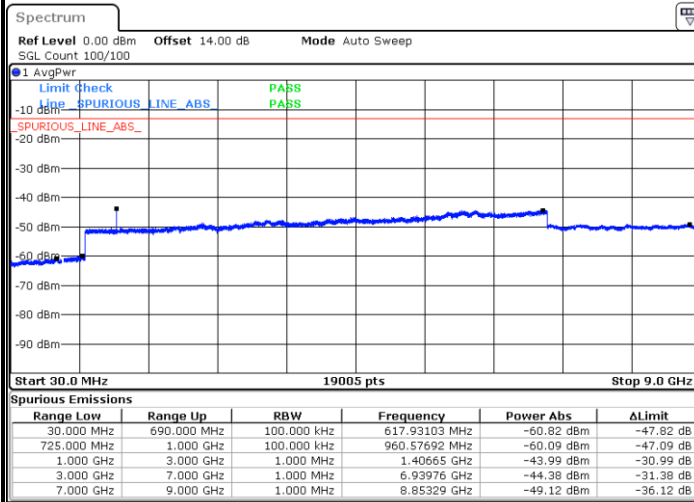


Date: 1.NOV.2021 19:09:26



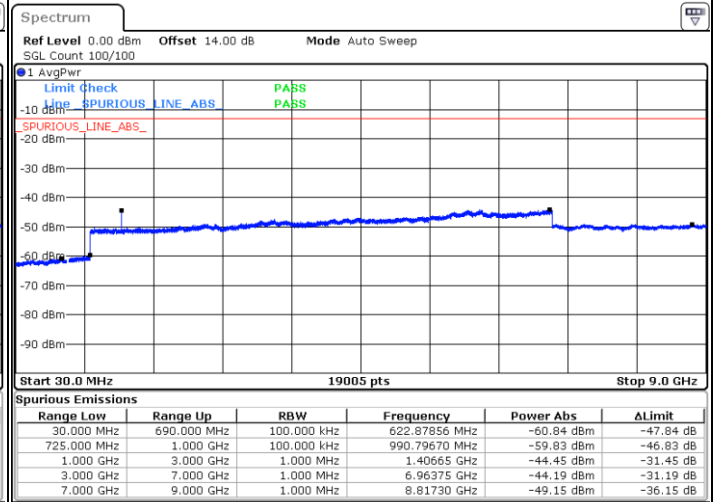
LTE Band 12 / 10MHz

Middle Channel / QPSK



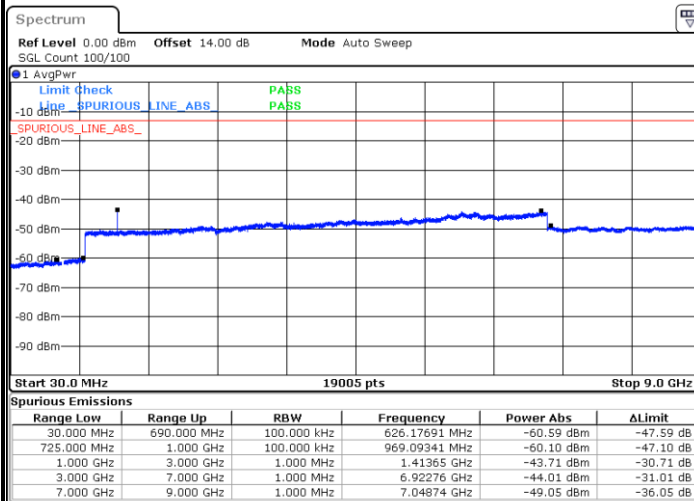
Date: 1.NOV.2021 19:13:19

Middle Channel / 16QAM



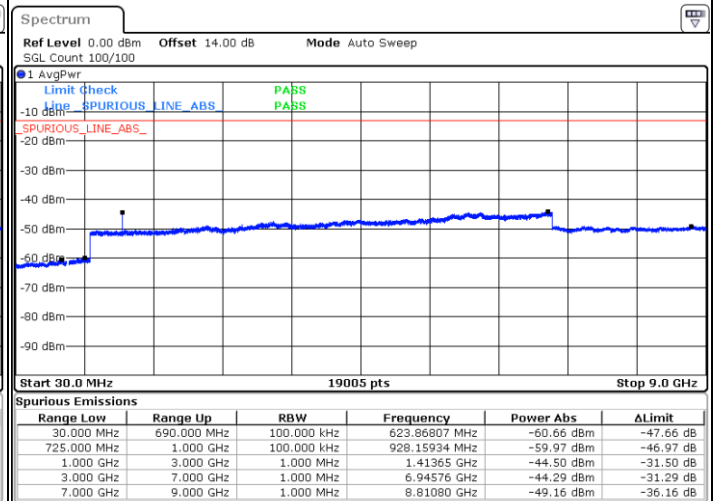
Date: 1.NOV.2021 19:12:06

Highest Channel / QPSK



Date: 1.NOV.2021 19:20:44

Highest Channel / 16QAM

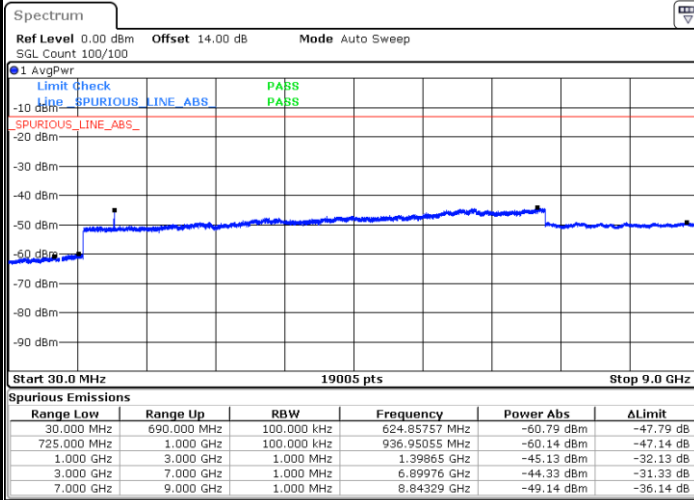


Date: 1.NOV.2021 19:21:57



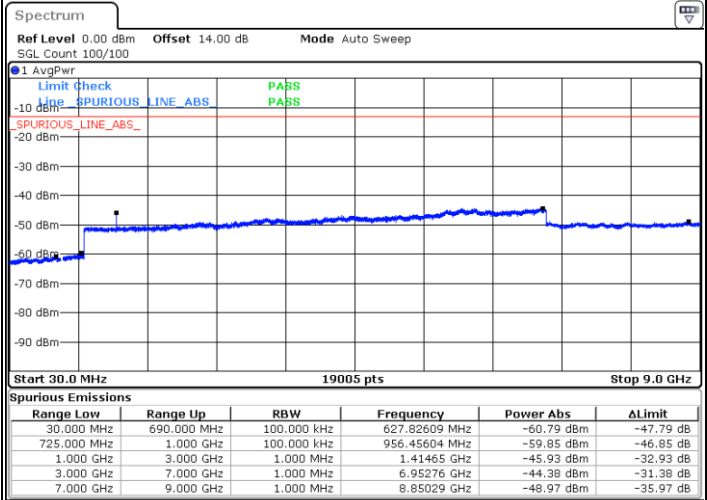
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



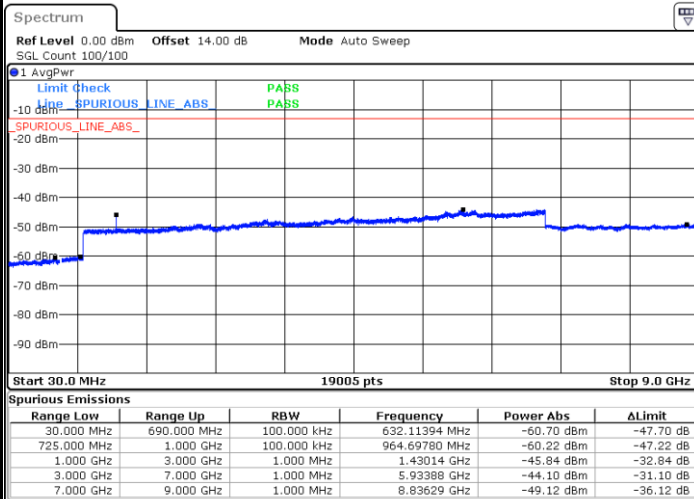
Date: 1.NOV.2021 17:52:52

Middle Channel / 64QAM



Date: 1.NOV.2021 17:54:43

Highest Channel / 64QAM

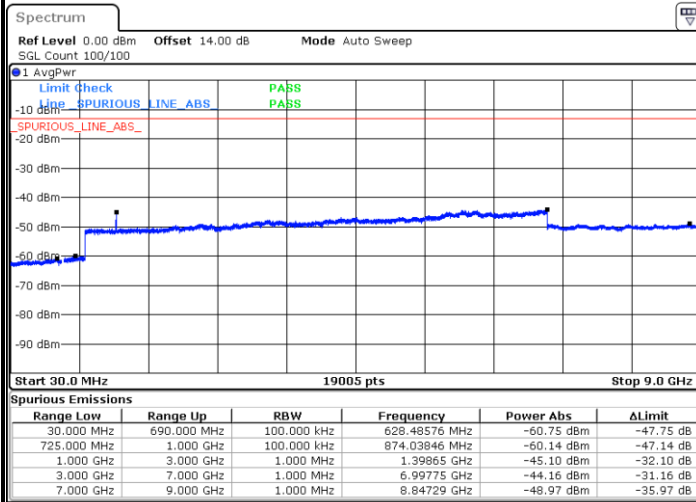


Date: 1.NOV.2021 17:58:53



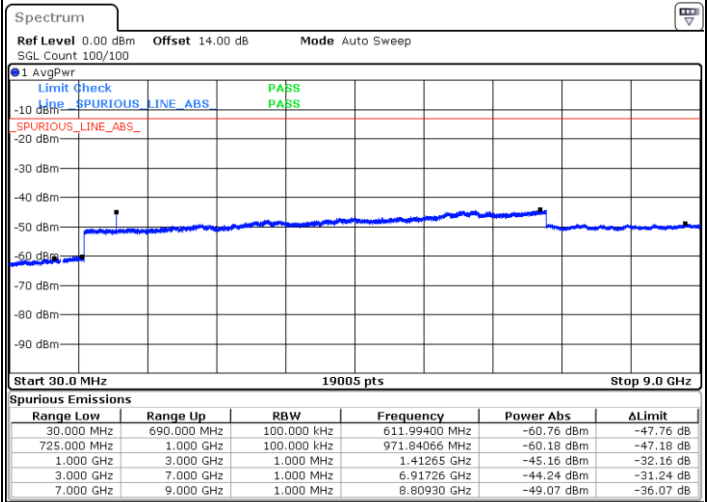
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



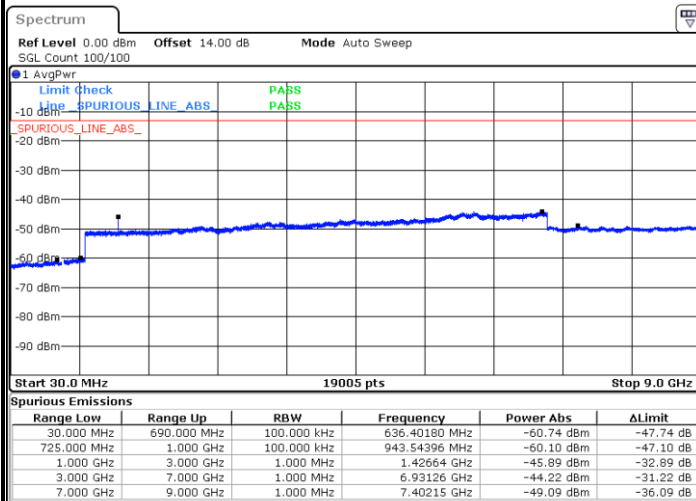
Date: 1.NOV.2021 18:23:53

Middle Channel / 64QAM



Date: 1.NOV.2021 18:25:45

Highest Channel / 64QAM

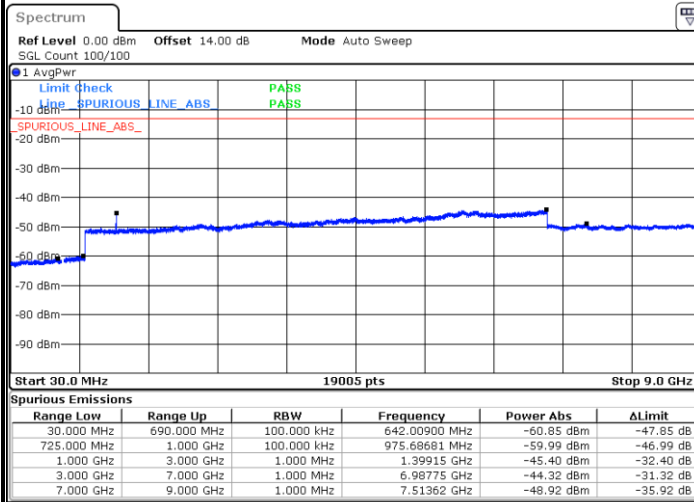


Date: 1.NOV.2021 18:29:55



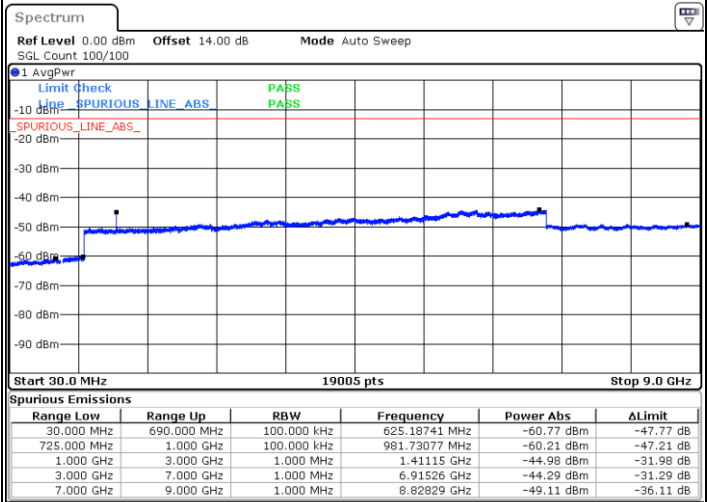
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



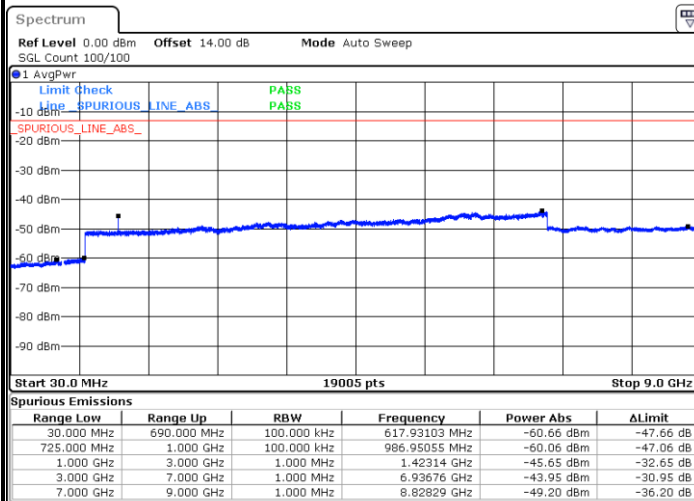
Date: 1.NOV.2021 18:33:55

Middle Channel / 64QAM



Date: 1.NOV.2021 18:35:47

Highest Channel / 64QAM

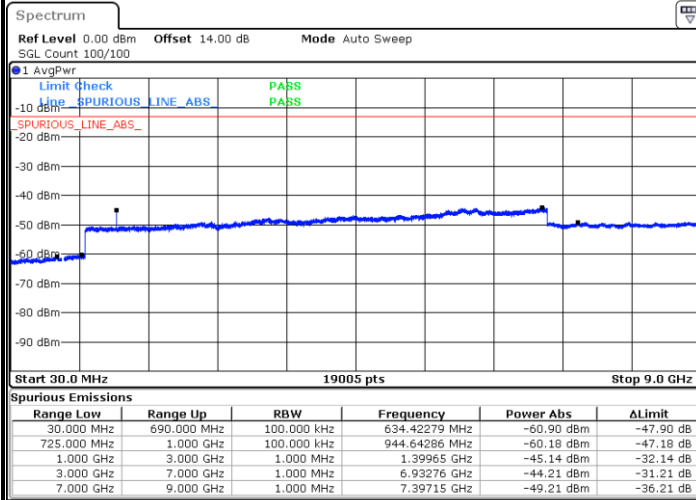


Date: 1.NOV.2021 18:39:58



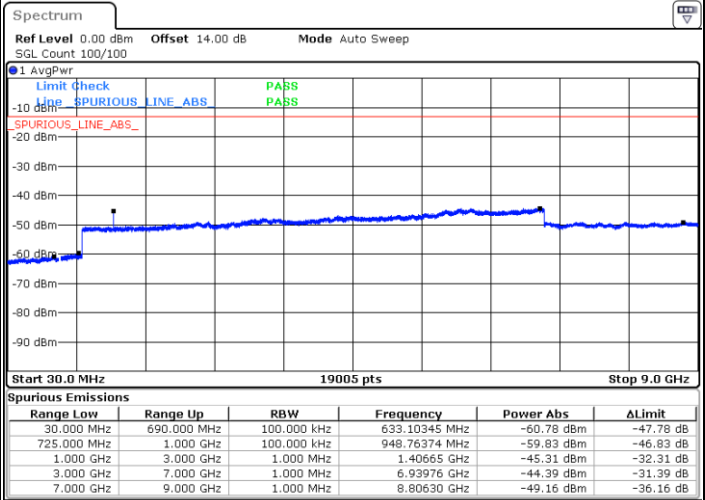
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



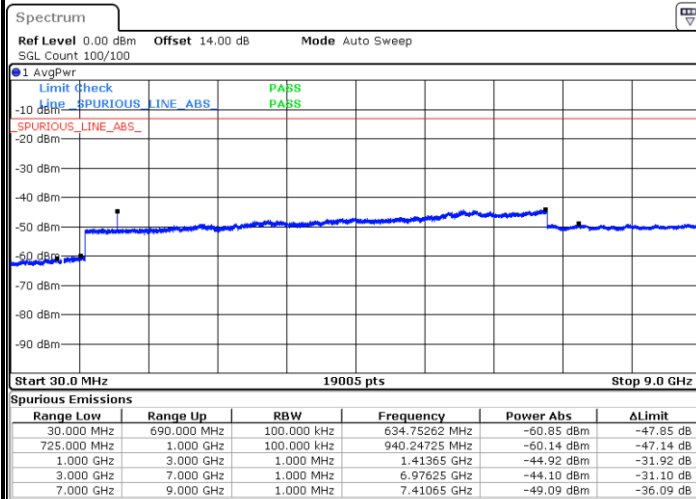
Date: 1.NOV.2021 19:25:59

Middle Channel / 64QAM



Date: 1.NOV.2021 19:27:51

Highest Channel / 64QAM



Date: 1.NOV.2021 19:32:01

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	0.0007	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0066	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =6.6 V. ; Maximum Voltage =8.9 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

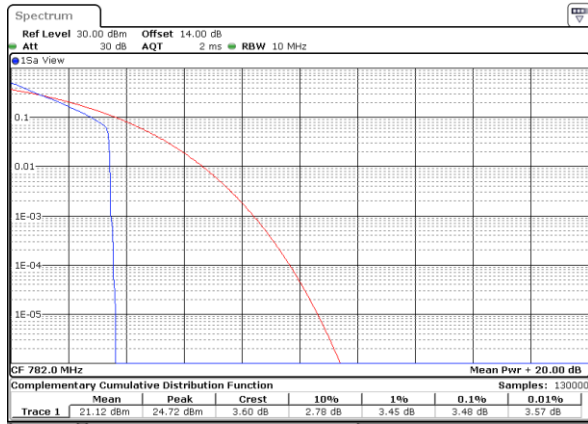
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.48	4.75	4.20	5.83	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.22	6.41	-	-	
Highest CH	-	-	-	-	



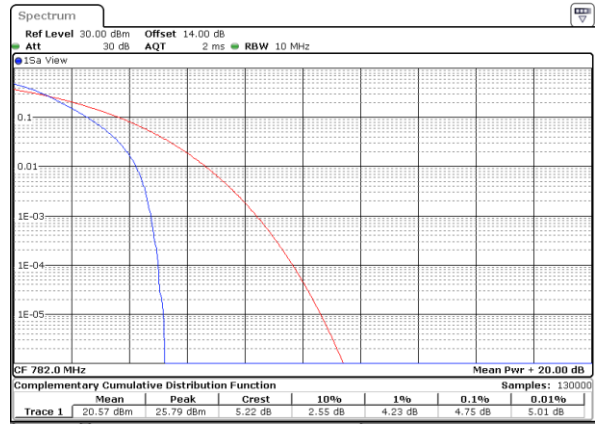
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 2 NOV 2021 13:30:07

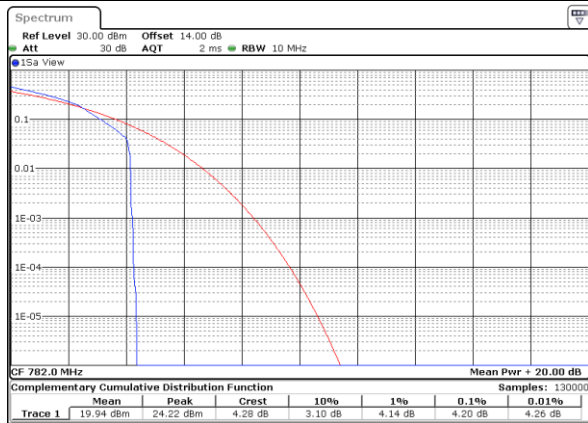
Middle Channel / Full RB



Date: 2 NOV 2021 13:30:21

LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 2 NOV 2021 13:29:43

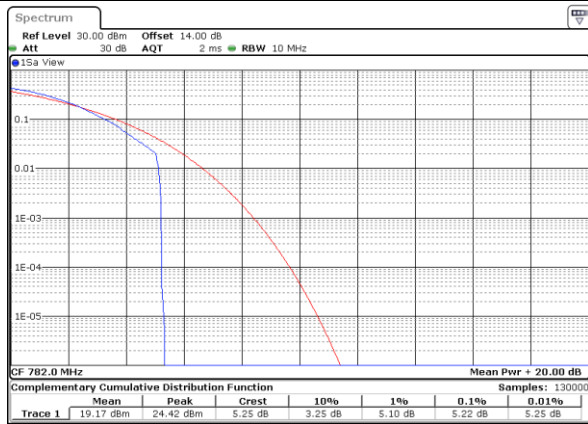
Middle Channel / Full RB



Date: 2 NOV 2021 13:29:55

LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 2 NOV 2021 13:29:01

Middle Channel / Full RB



Date: 2 NOV 2021 13:29:31

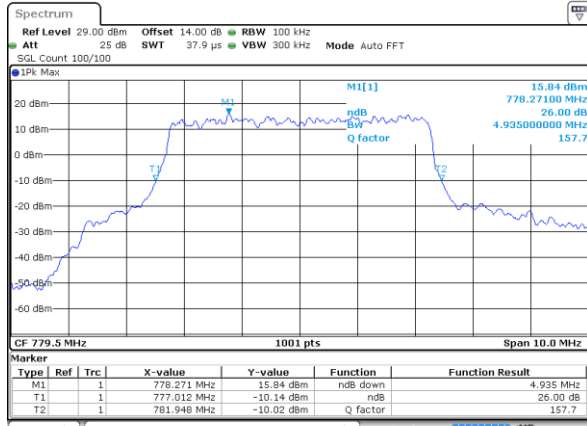
**26dB Bandwidth**

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	-	-	-	-	4.94	5.02	-	-	-	-	-	-
Middle CH	-	-	-	-	5.09	5.01	9.93	10.05	-	-	-	-
Highest CH	-	-	-	-	4.95	5.04	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.01	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.91	-	9.93	-	-	-	-	-
Highest CH	-	-	-	-	5.10	-	-	-	-	-	-	-



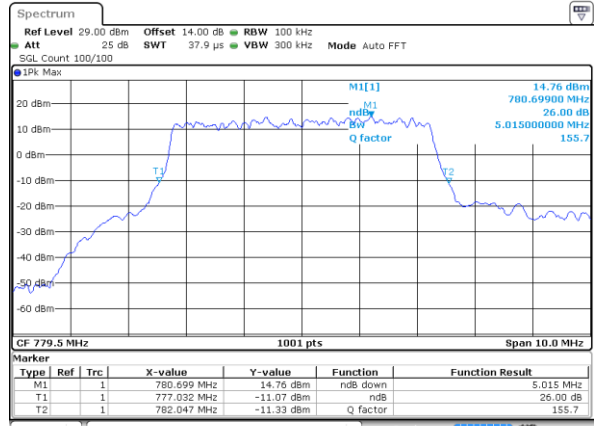
LTE Band 13

Lowest Channel / 5MHz / QPSK



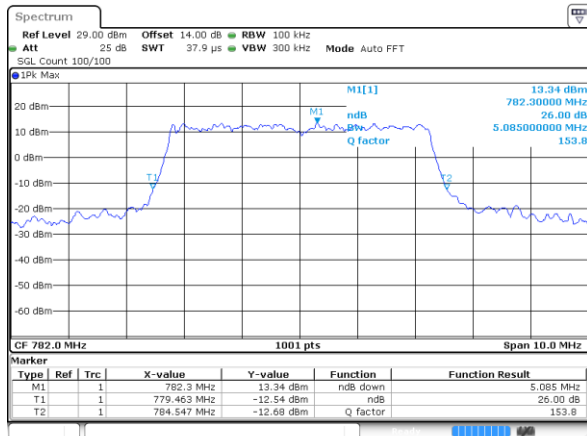
Date: 2 NOV 2021 12:42:56

Lowest Channel / 5MHz / 16QAM



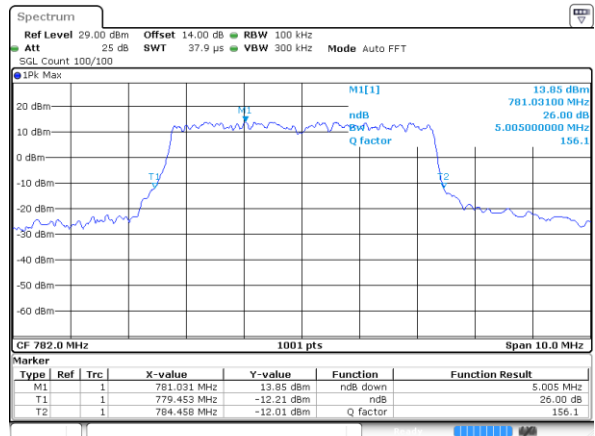
Date: 2 NOV 2021 12:42:43

Middle Channel / 5MHz / QPSK



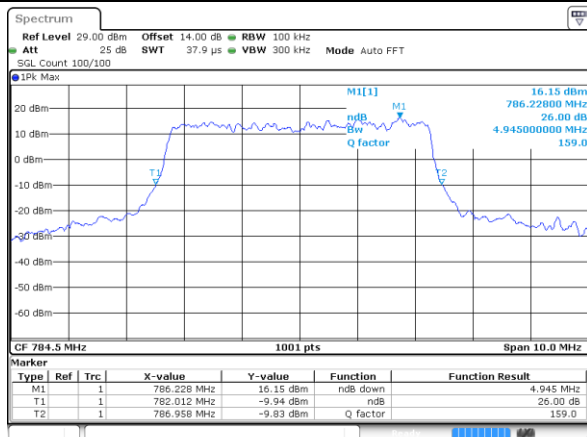
Date: 2 NOV 2021 12:51:53

Middle Channel / 5MHz / 16QAM



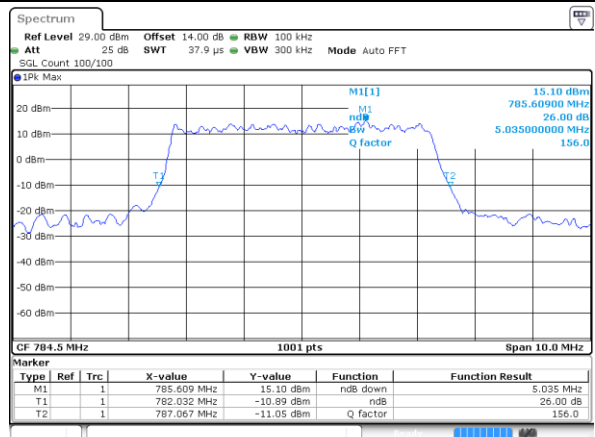
Date: 2 NOV 2021 12:52:07

Highest Channel / 5MHz / QPSK



Date: 2 NOV 2021 12:53:26

Highest Channel / 5MHz / 16QAM

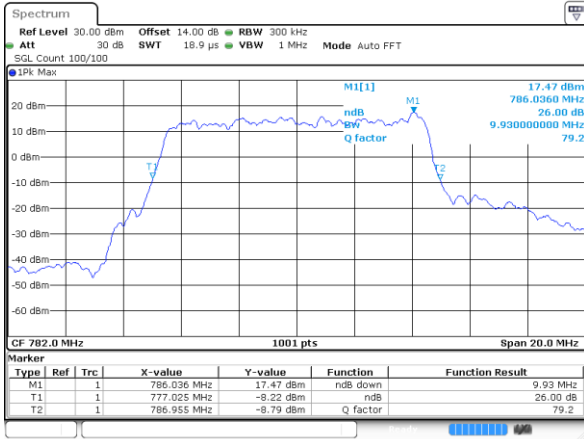


Date: 2 NOV 2021 12:53:13



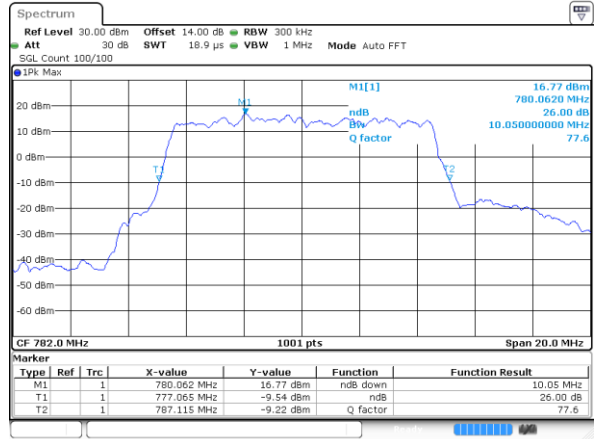
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2 NOV 2021 13:11:43

Middle Channel / 10MHz / 16QAM

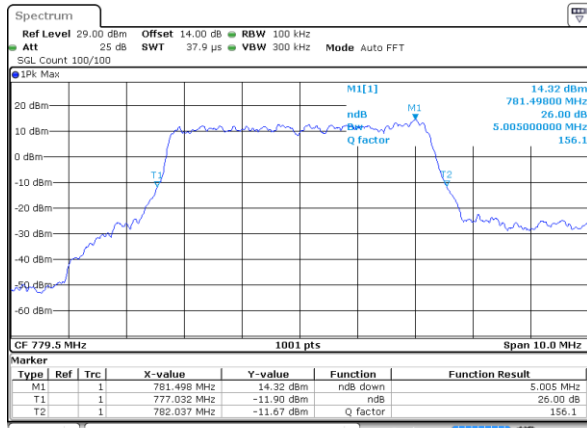


Date: 2 NOV 2021 13:11:25

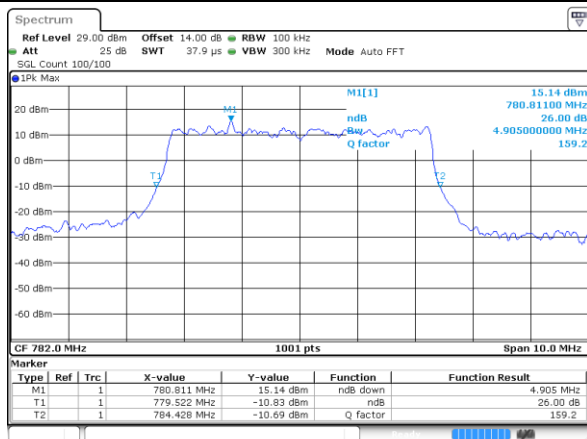


LTE Band 13

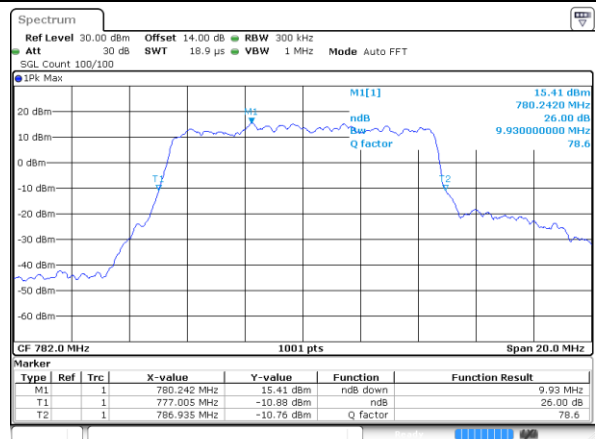
Lowest Channel / 5MHz / 64QAM



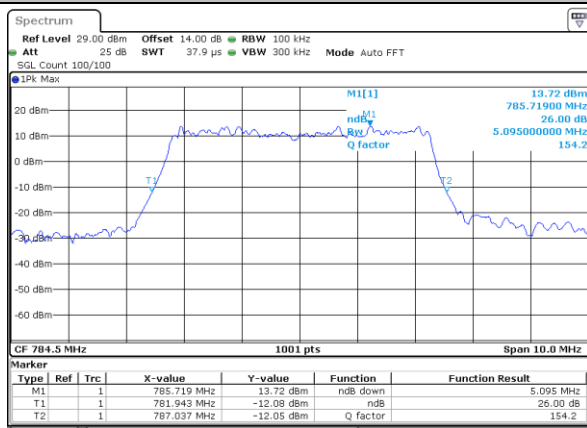
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



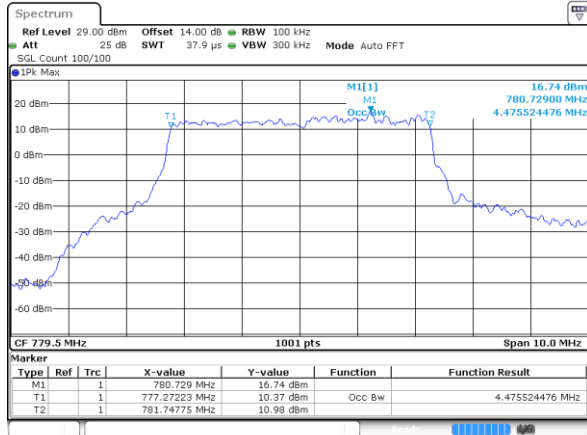
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.50	-	-	-	-	-	-
Middle CH	-	-	-	-	4.52	4.49	9.01	8.99	-	-	-	-
Highest CH	-	-	-	-	4.53	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	-	-	-	-	4.48	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	8.95	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	-	-



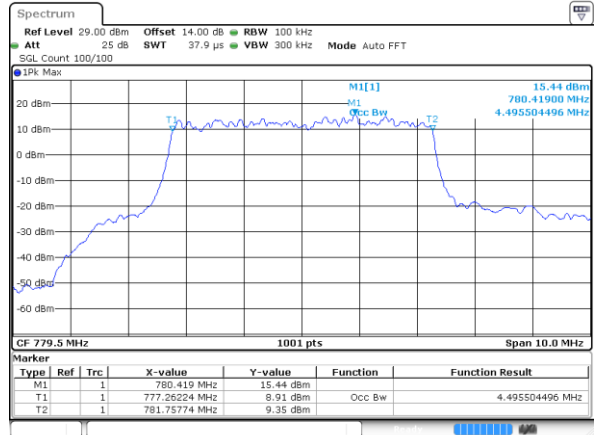
LTE Band 13

Lowest Channel / 5MHz / QPSK



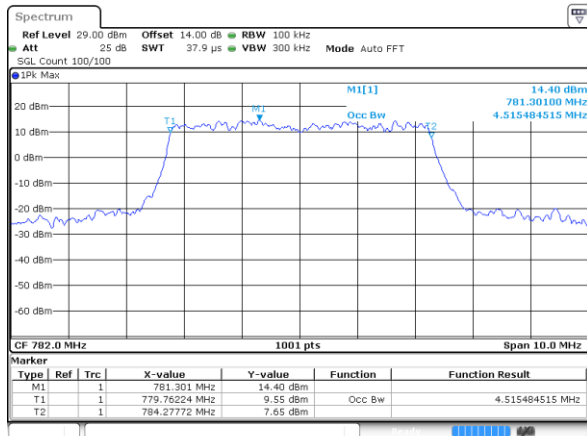
Date: 2 NOV 2021 12:42:13

Lowest Channel / 5MHz / 16QAM



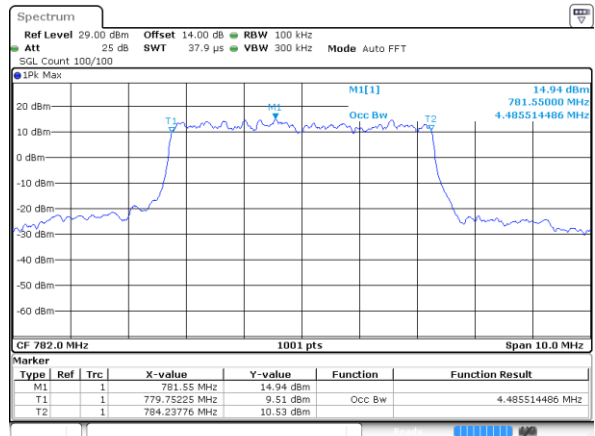
Date: 2 NOV 2021 12:42:30

Middle Channel / 5MHz / QPSK



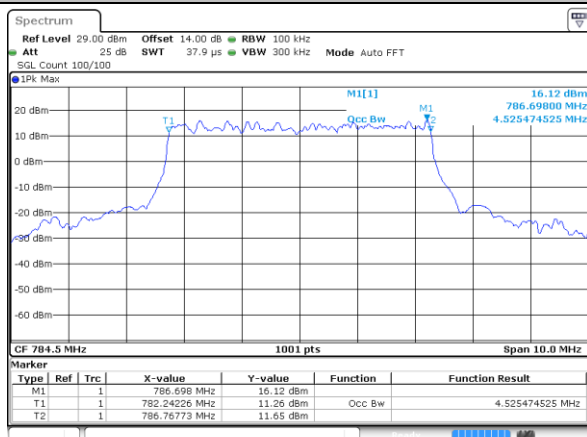
Date: 2 NOV 2021 12:52:33

Middle Channel / 5MHz / 16QAM



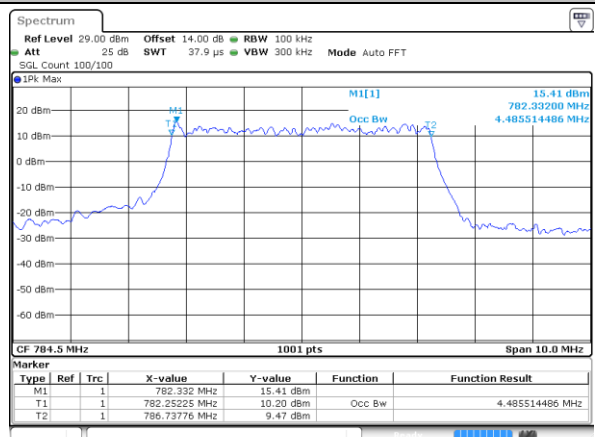
Date: 2 NOV 2021 12:52:20

Highest Channel / 5MHz / QPSK



Date: 2 NOV 2021 12:52:46

Highest Channel / 5MHz / 16QAM

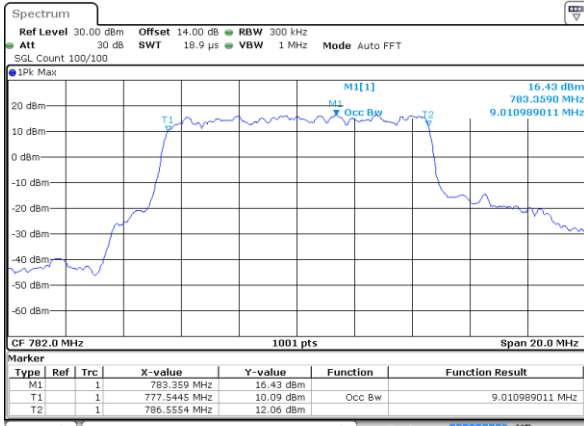


Date: 2 NOV 2021 12:53:00



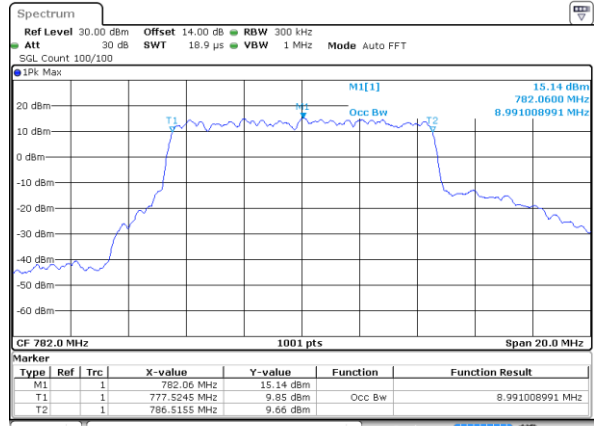
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2 NOV 2021 13:10:59

Middle Channel / 10MHz / 16QAM

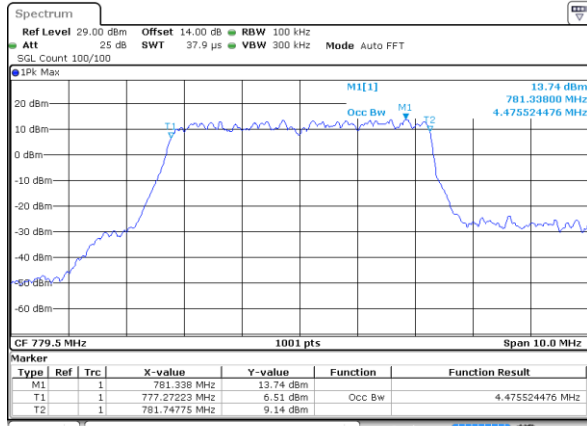


Date: 2 NOV 2021 13:11:12

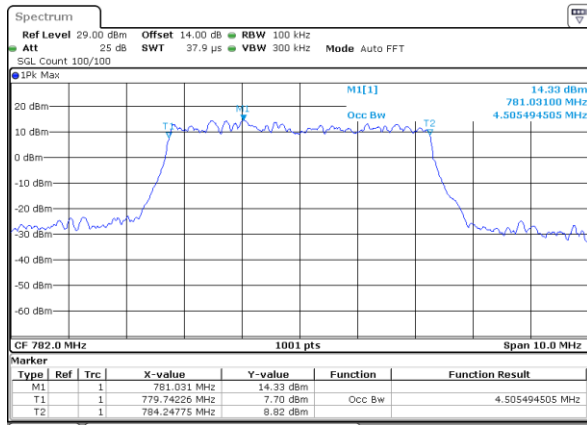


LTE Band 13

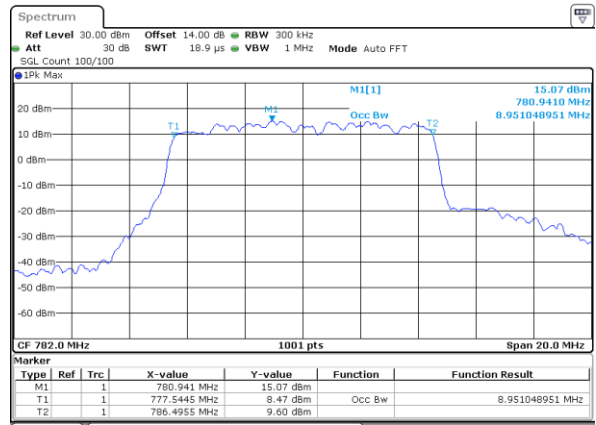
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

