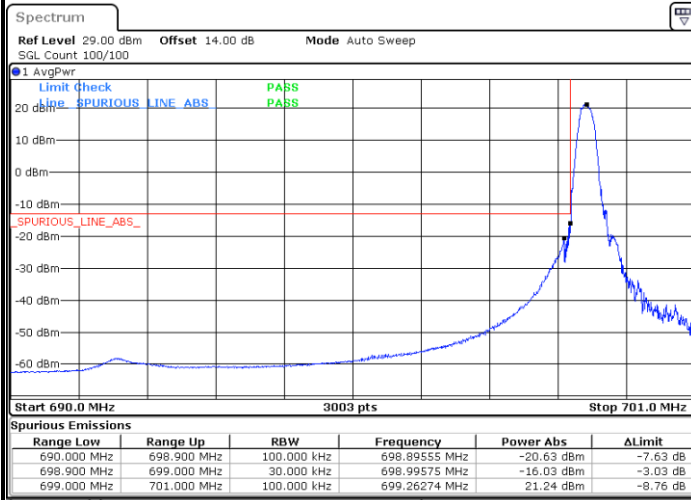




LTE Band 12 / 1.4MHz / 16QAM

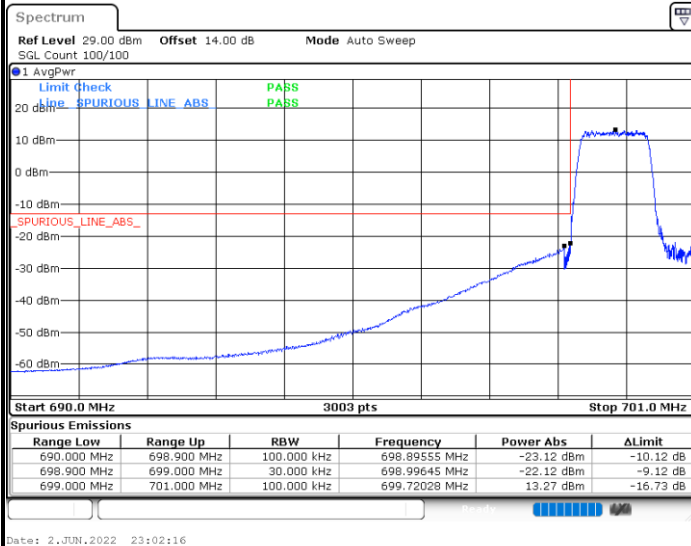
Lowest Band Edge / 1 RB



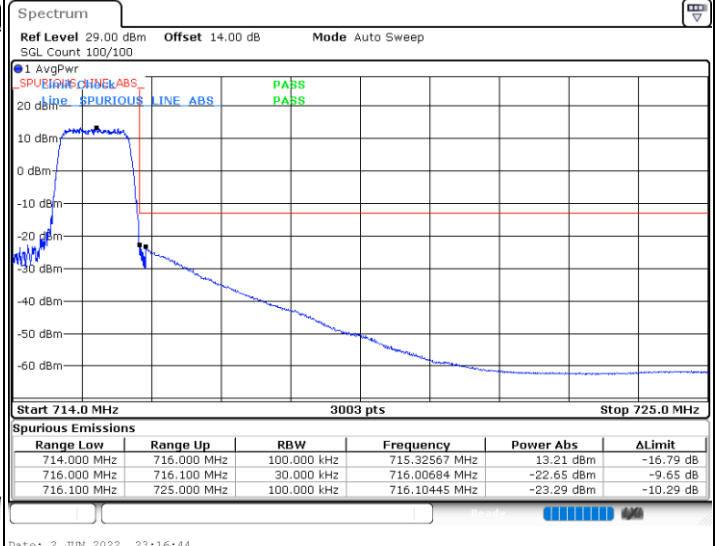
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



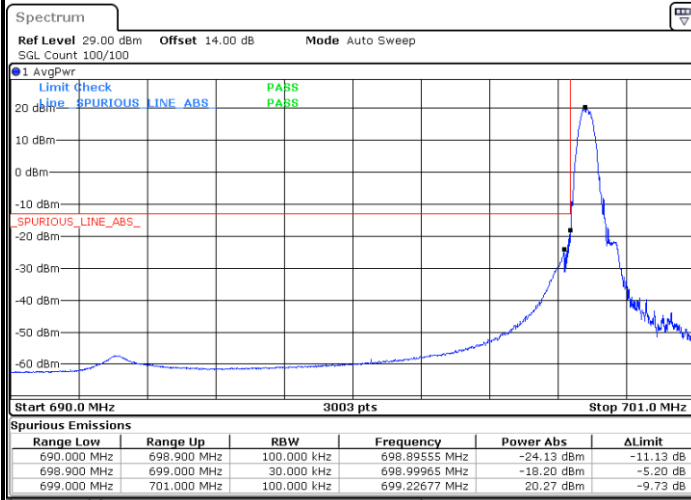
Highest Band Edge / Full RB



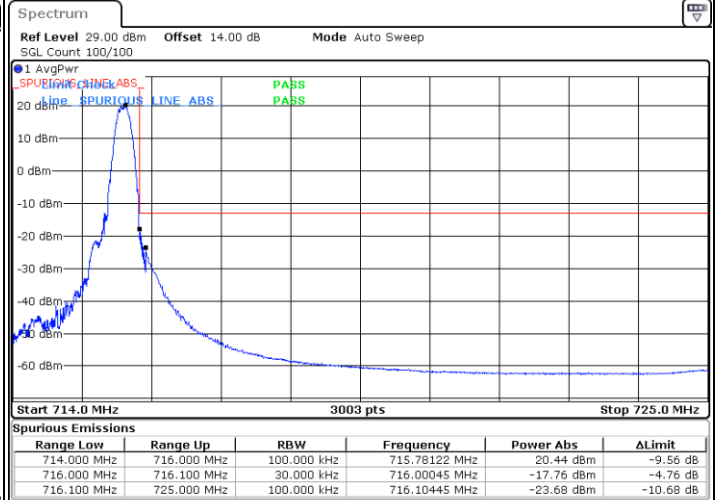


LTE Band 12 / 1.4MHz / 64QAM

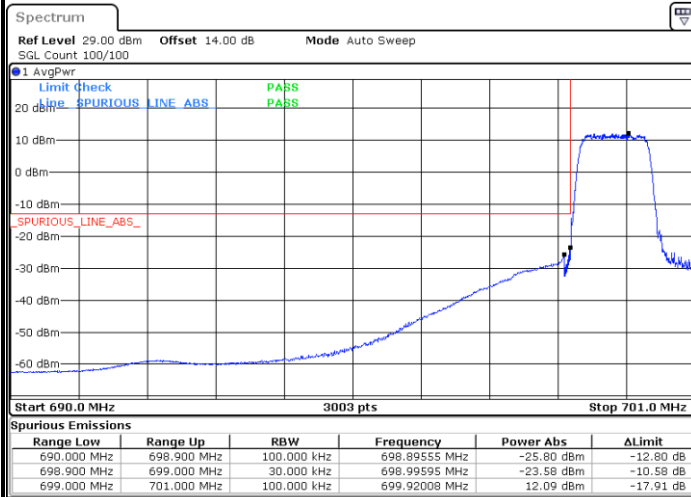
Lowest Band Edge / 1 RB



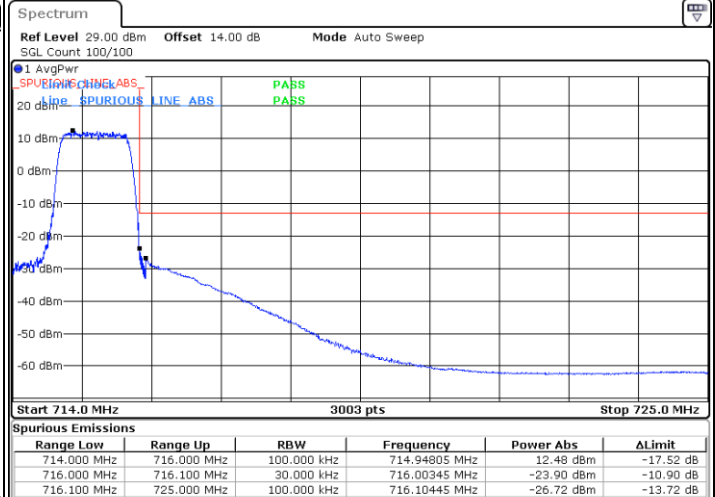
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



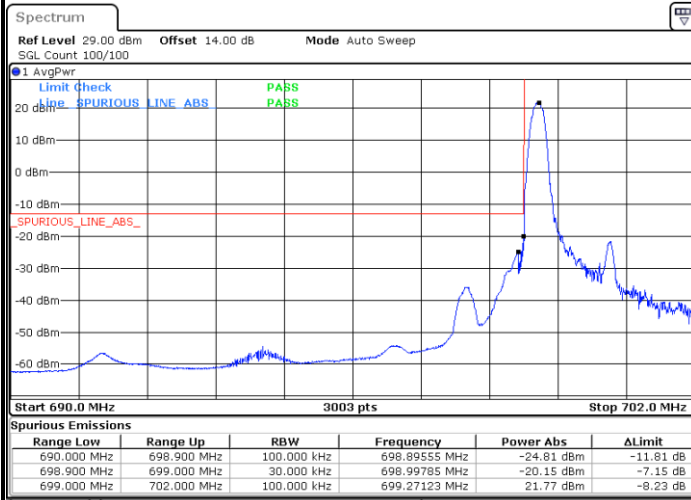
Highest Band Edge / Full RB



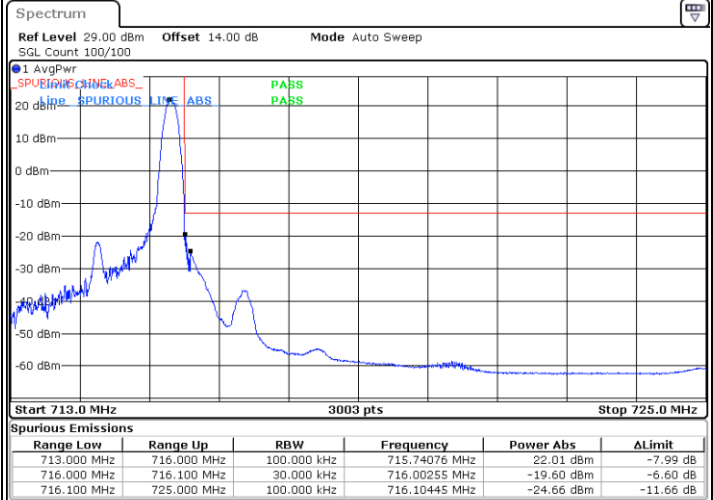


LTE Band 12 / 3MHz / QPSK

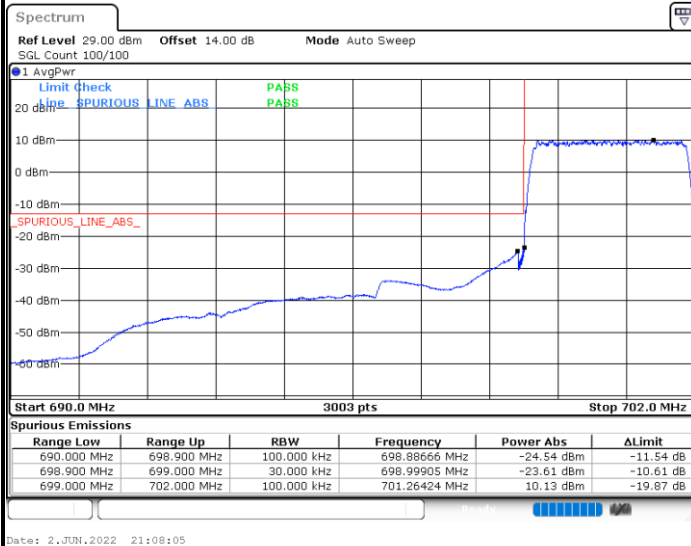
Lowest Band Edge / 1RB



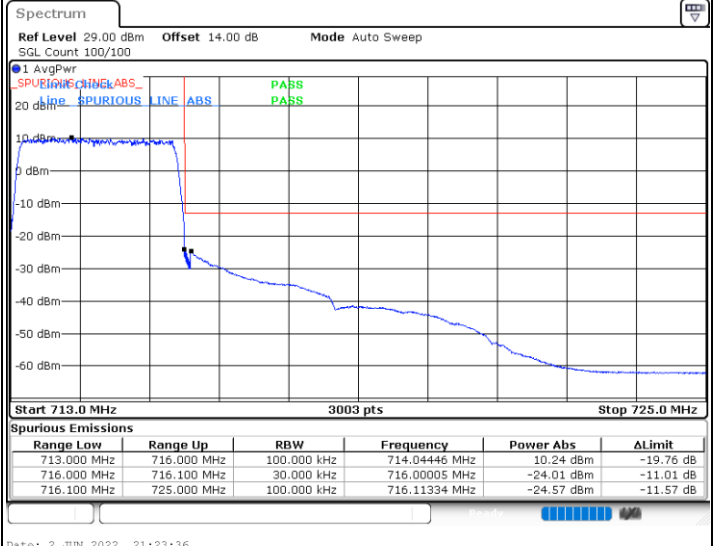
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



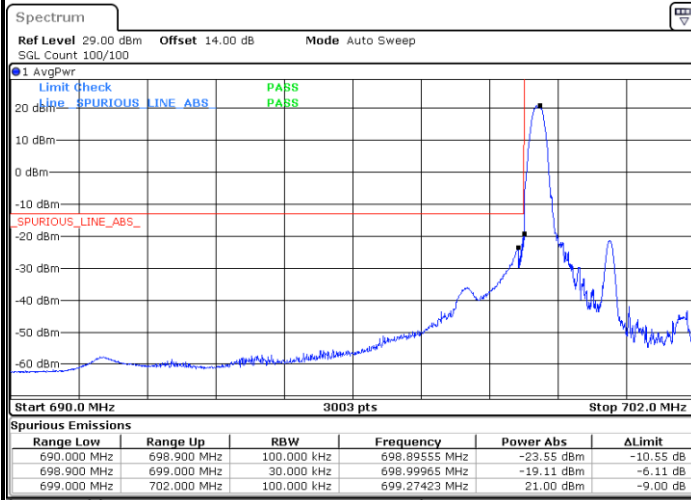
Highest Band Edge / Full RB



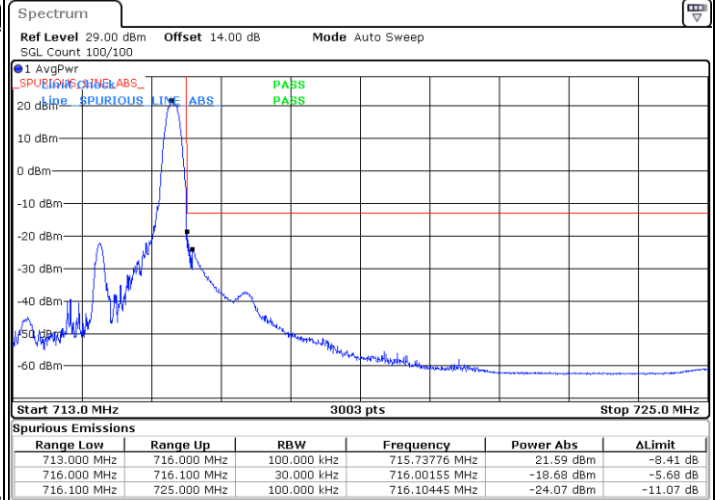


LTE Band 12 / 3MHz / 16QAM

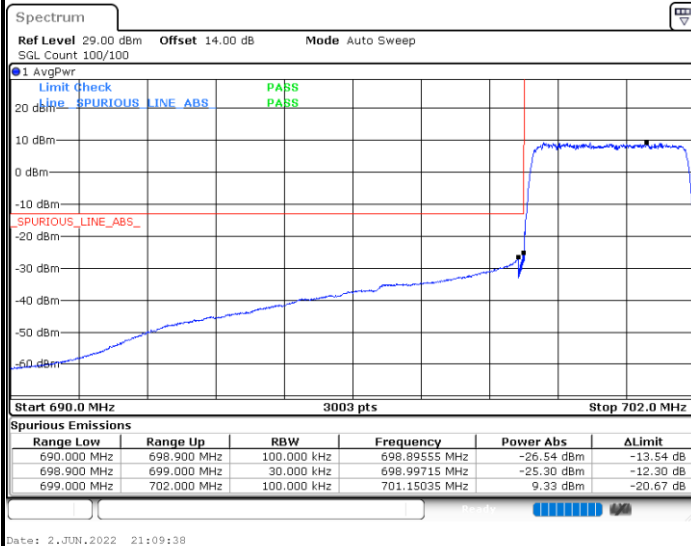
Lowest Band Edge / 1 RB



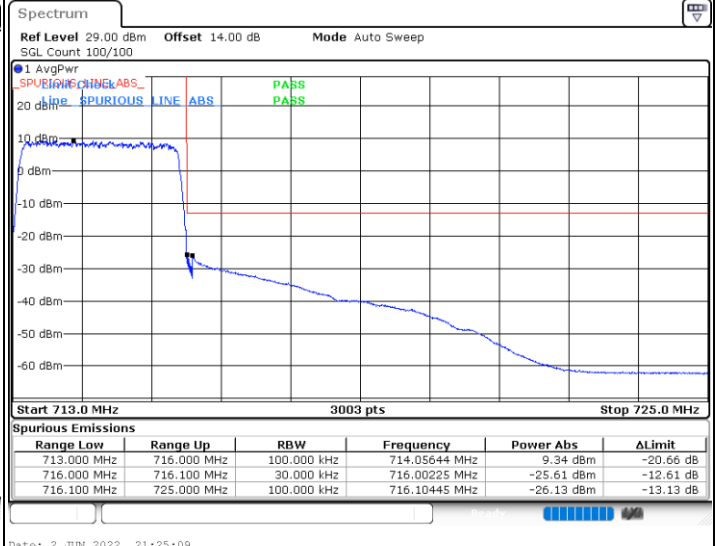
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



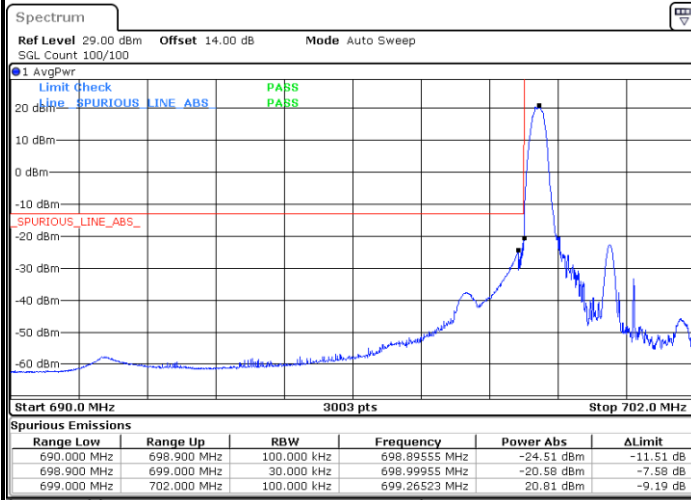
Highest Band Edge / Full RB



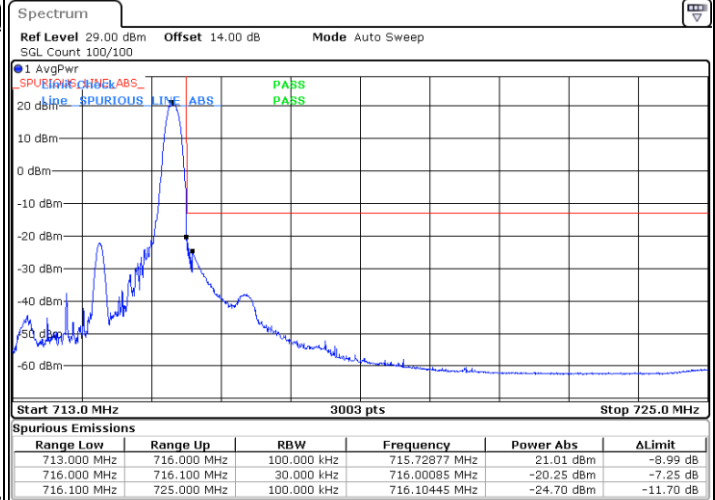


LTE Band 12 / 3MHz / 64QAM

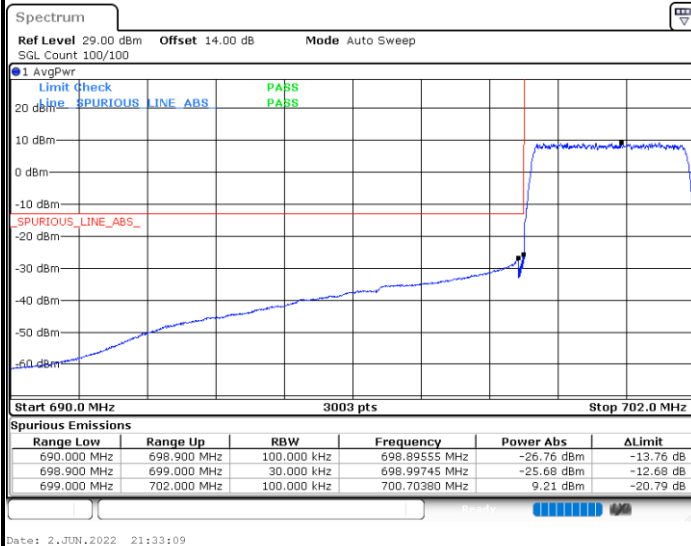
Lowest Band Edge / 1 RB



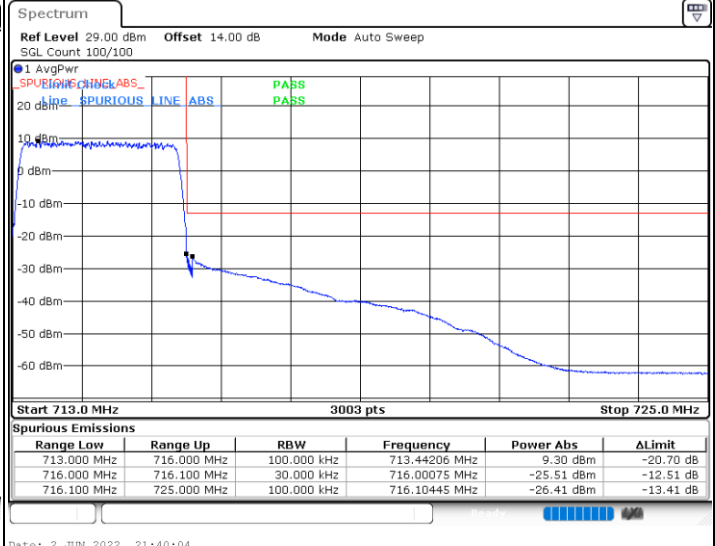
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



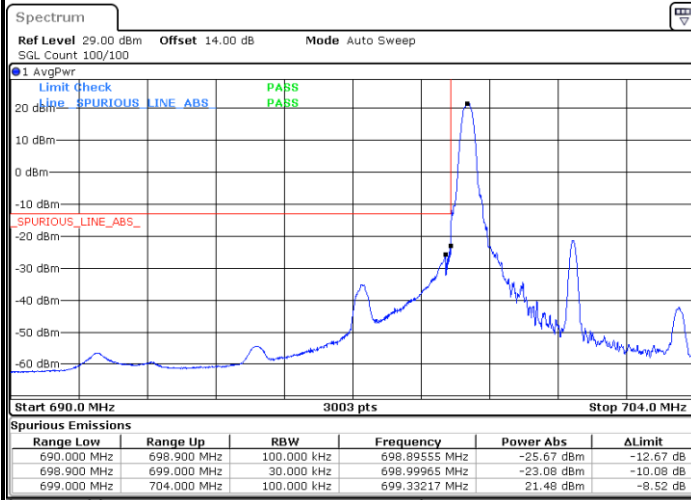
Highest Band Edge / Full RB



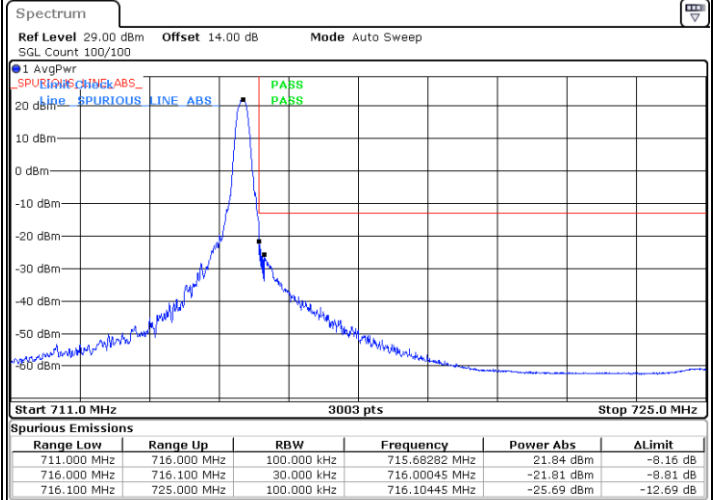


LTE Band 12 / 5MHz / QPSK

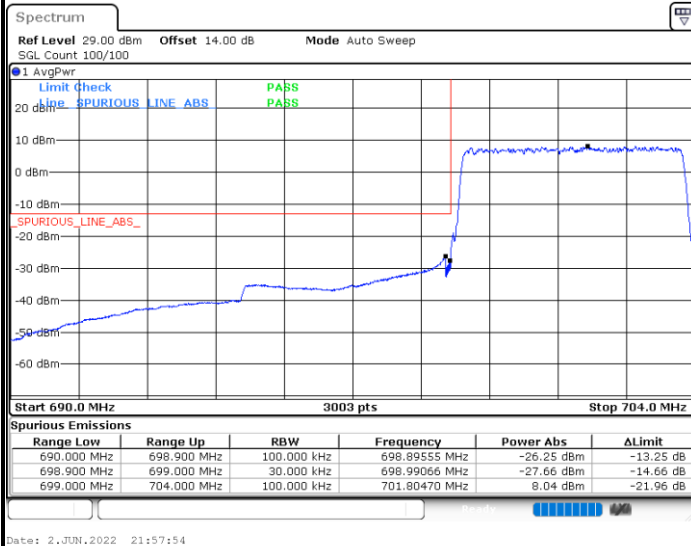
Lowest Band Edge / 1 RB



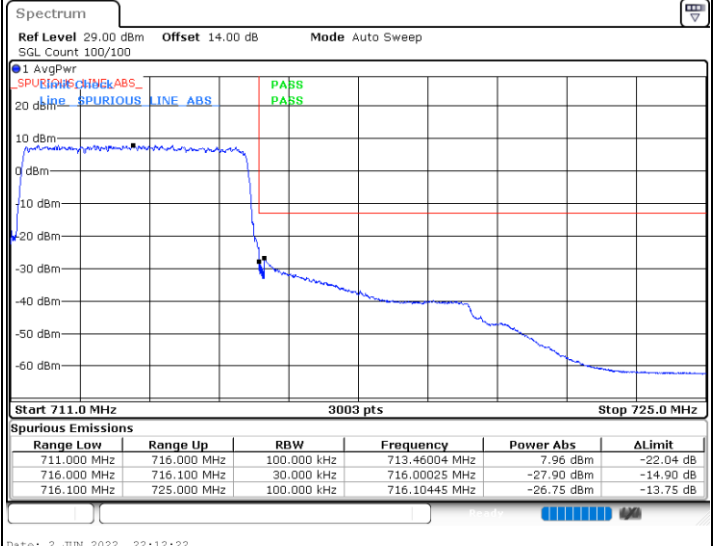
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



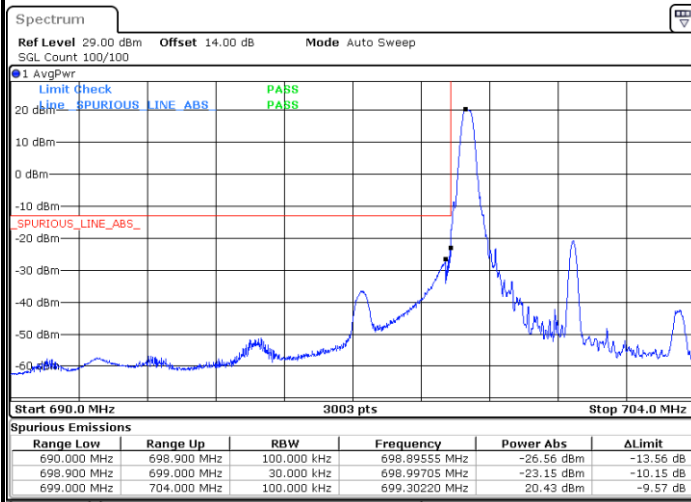
Highest Band Edge / Full RB



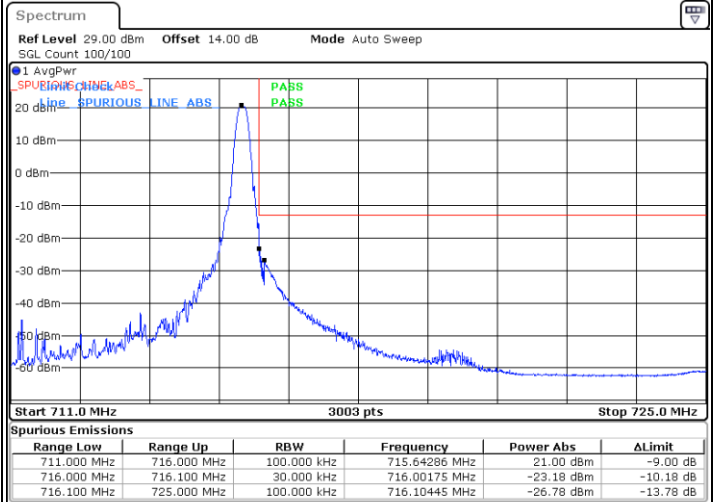


LTE Band 12 / 5MHz / 16QAM

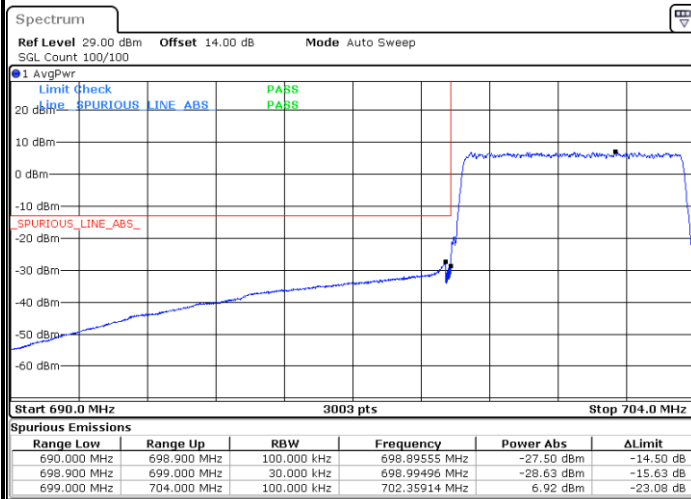
Lowest Band Edge / 1RB



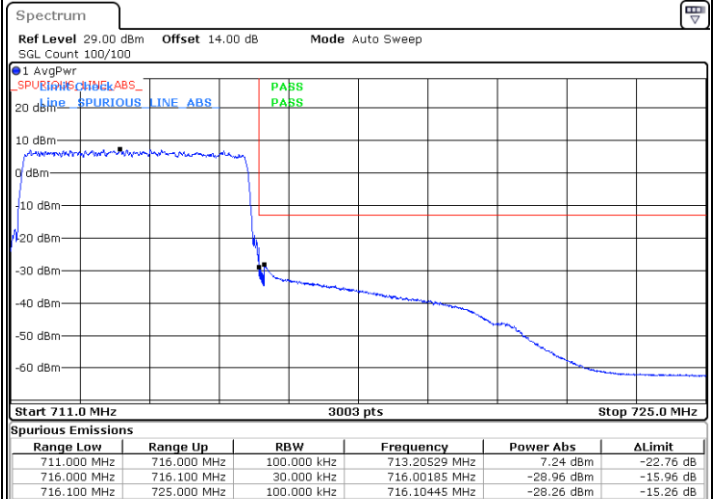
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



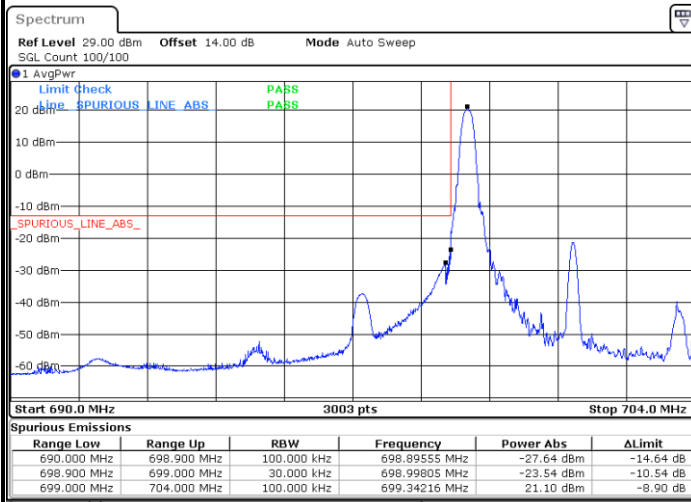
Highest Band Edge / Full RB



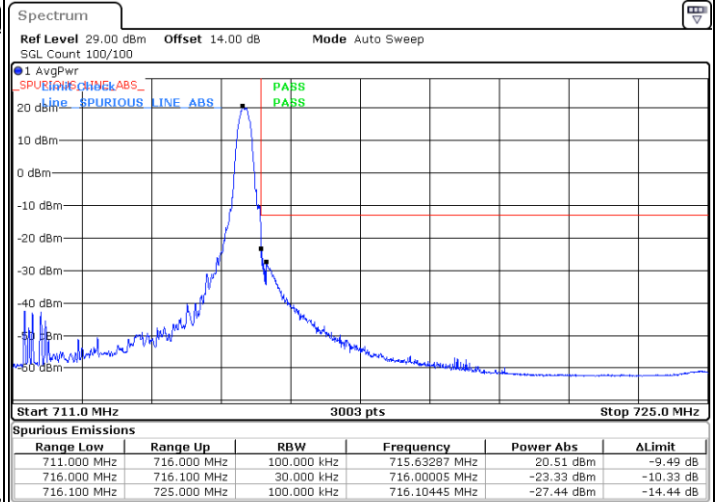


LTE Band 12 / 5MHz / 64QAM

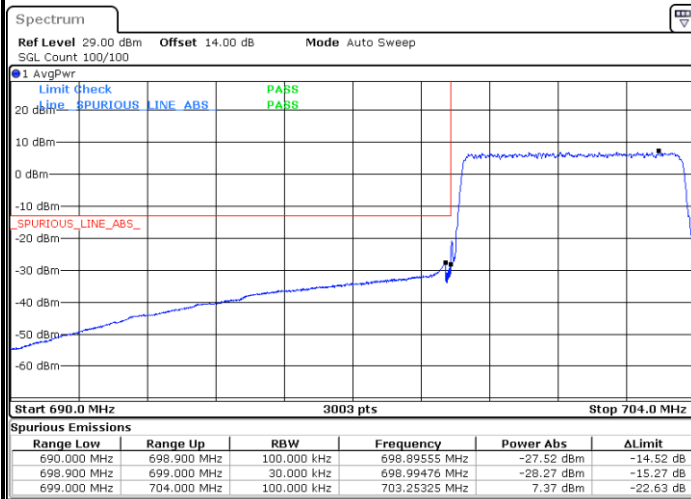
Lowest Band Edge / 1RB



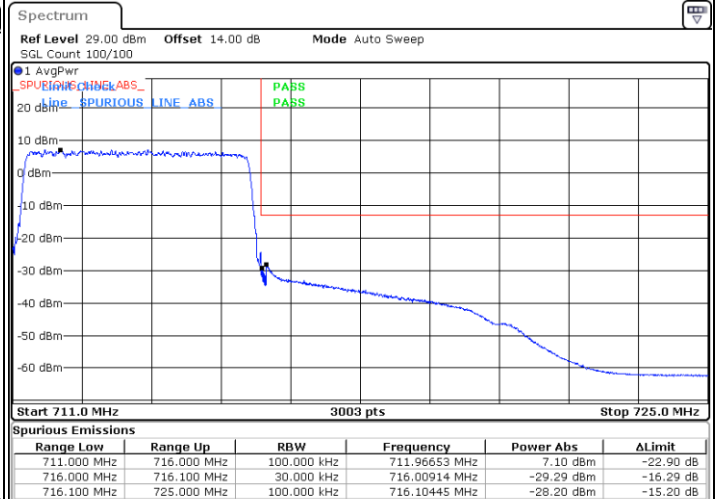
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



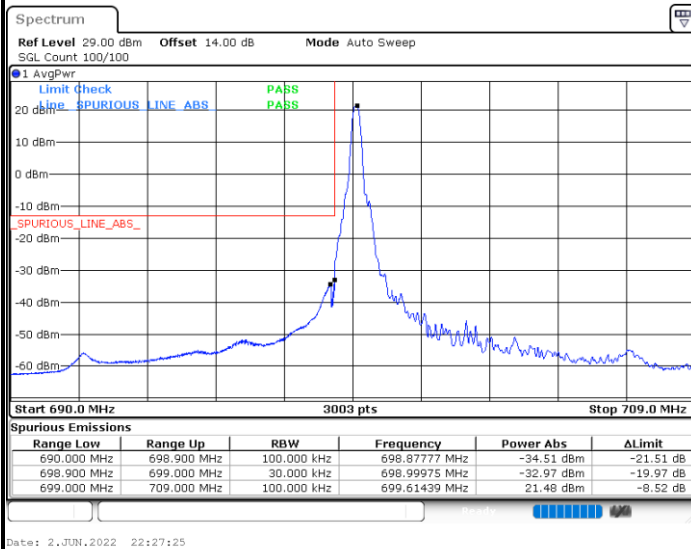
Highest Band Edge / Full RB



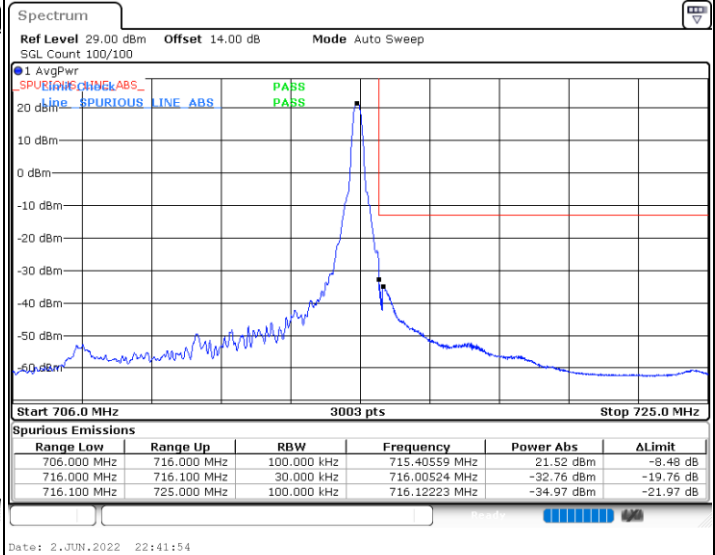


LTE Band 12 / 10MHz / QPSK

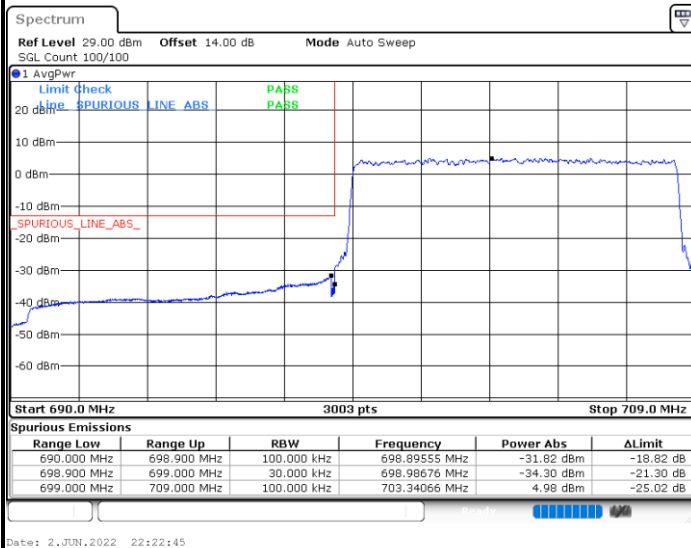
Lowest Band Edge / 1 RB



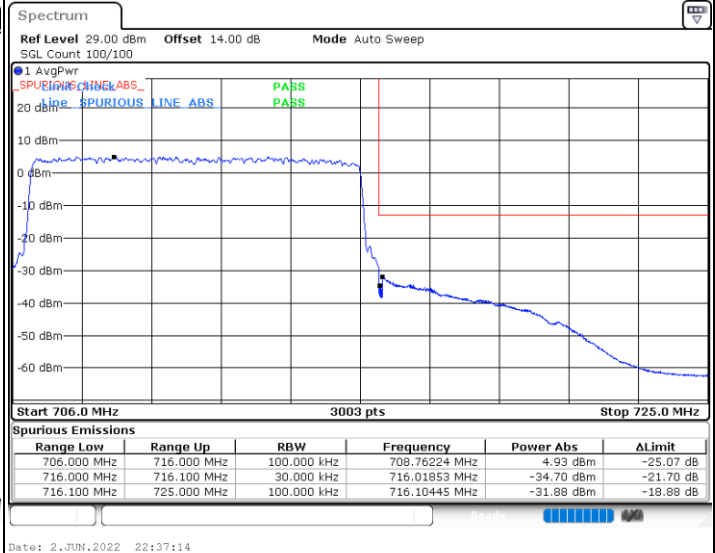
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



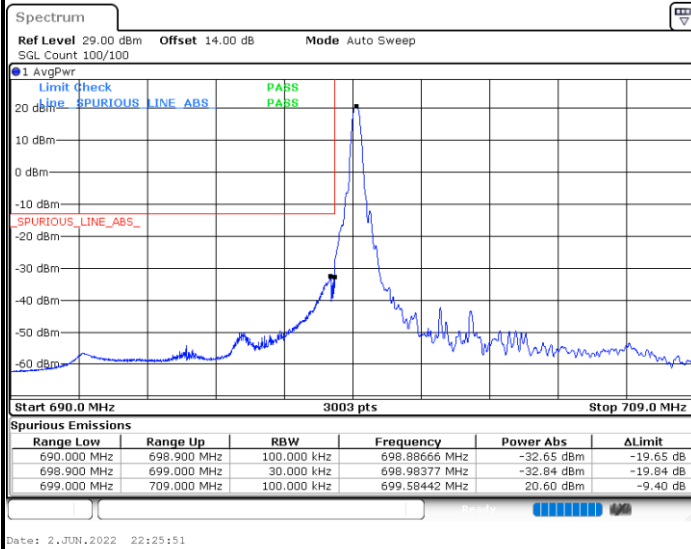
Highest Band Edge / Full RB



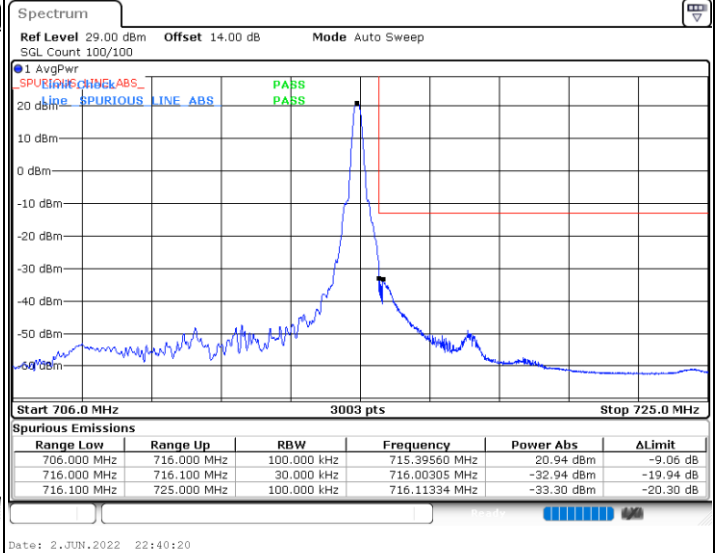


LTE Band 12 / 10MHz / 16QAM

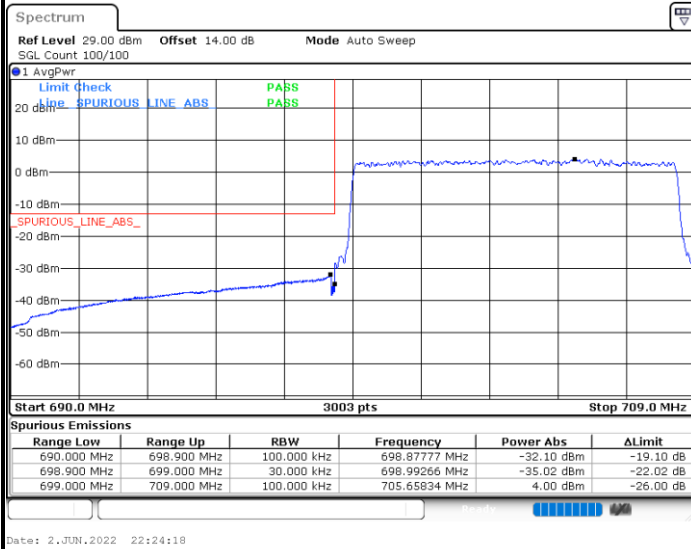
Lowest Band Edge / 1 RB



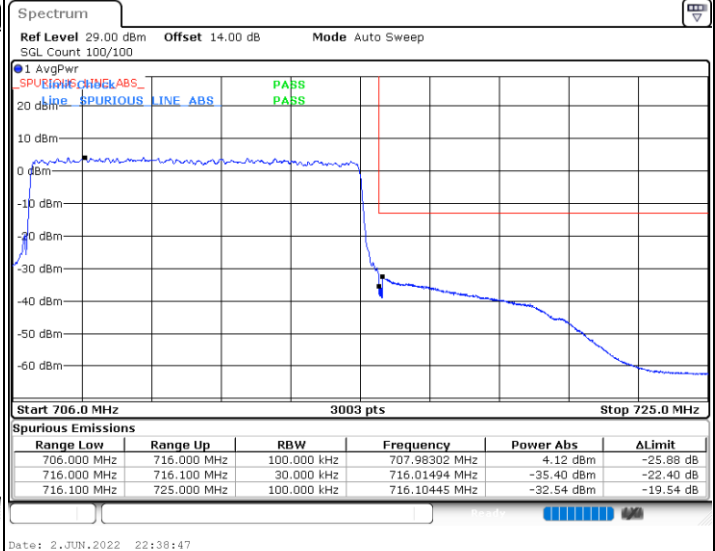
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



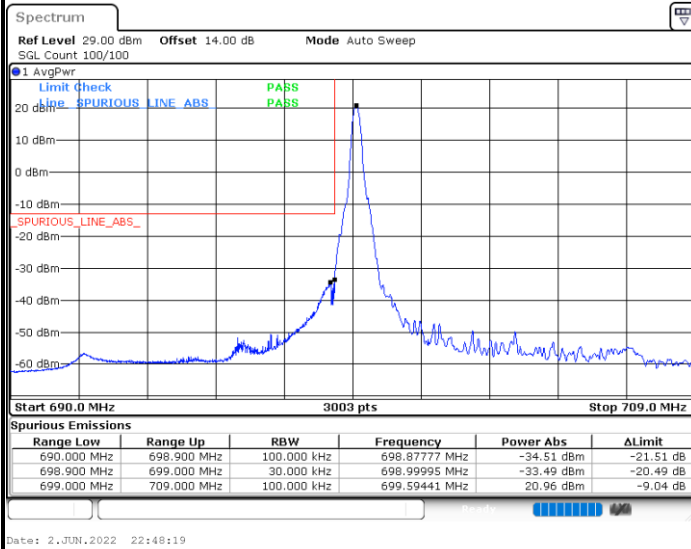
Highest Band Edge / Full RB



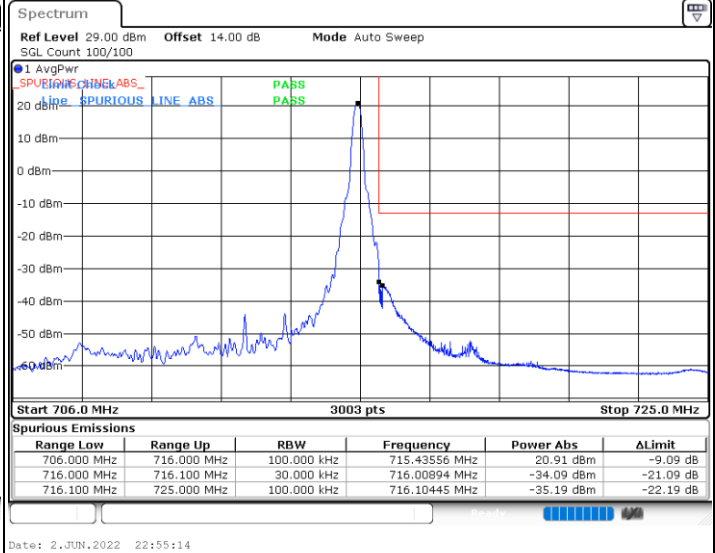


LTE Band 12 / 10MHz / 64QAM

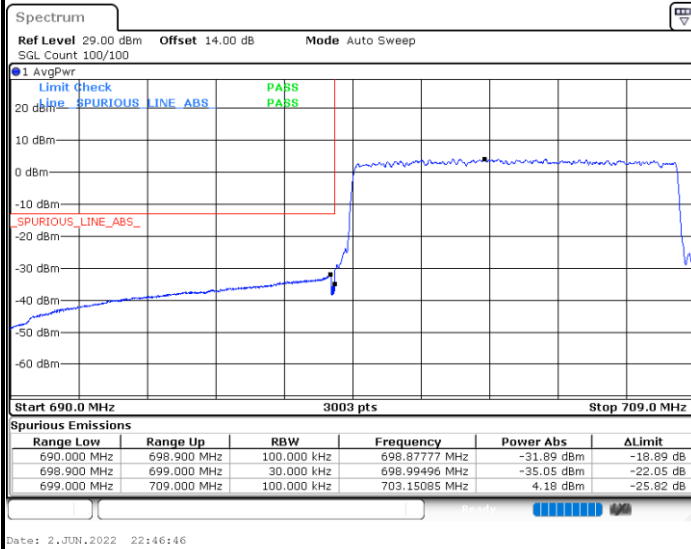
Lowest Band Edge / 1 RB



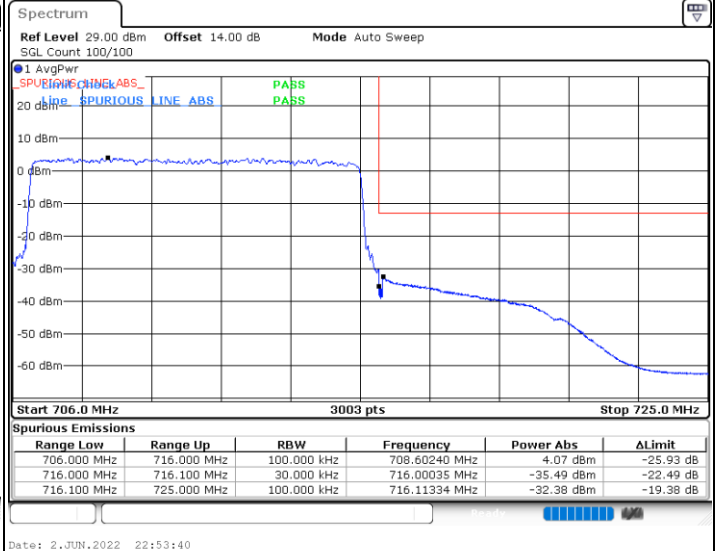
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

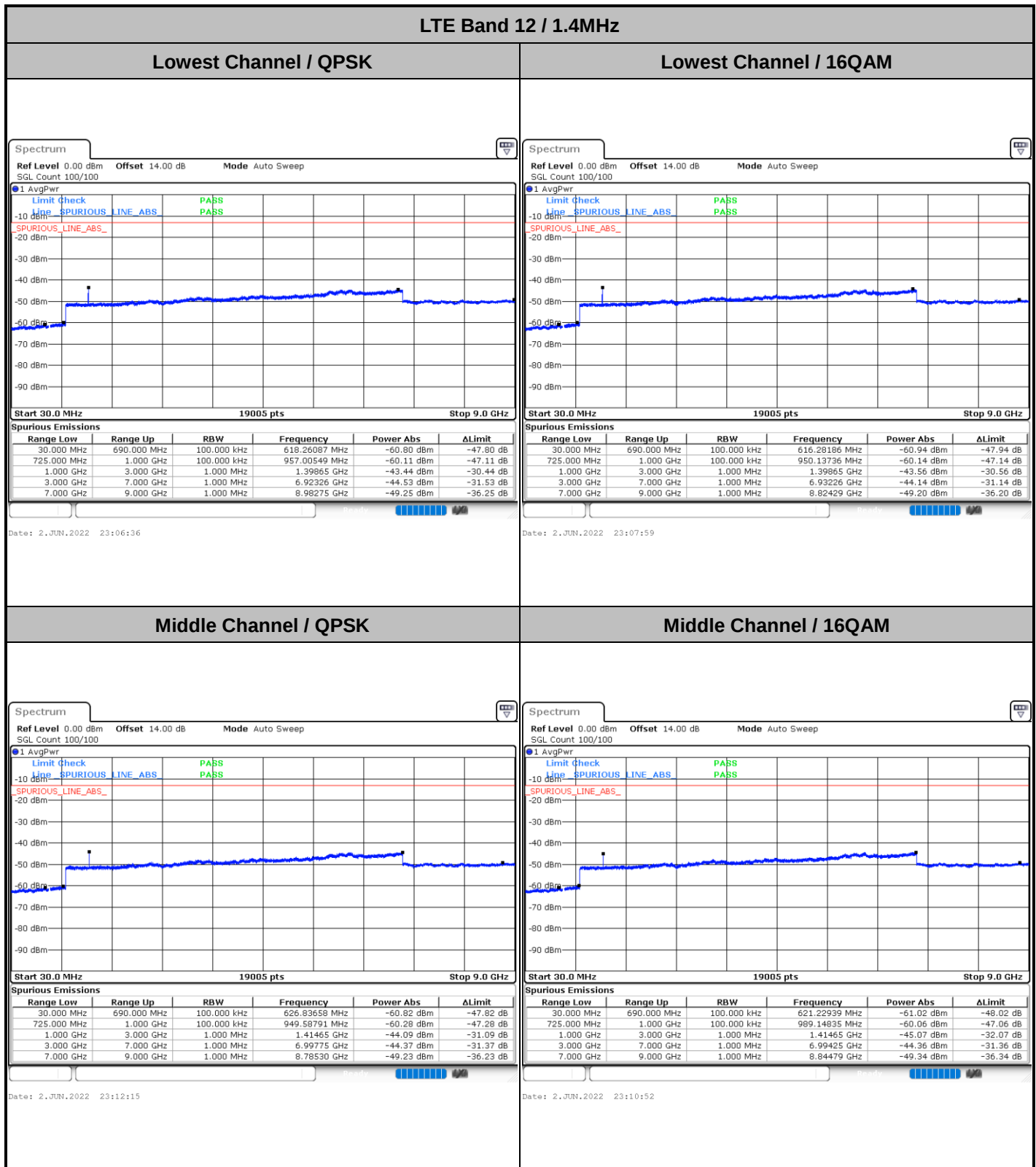


Highest Band Edge / Full RB





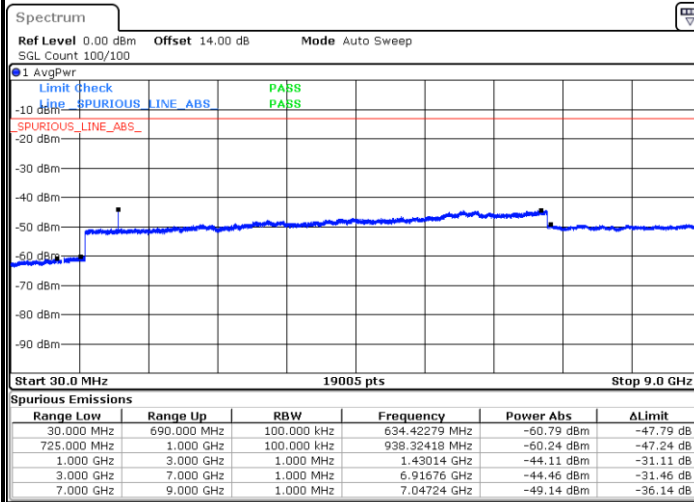
Conducted Spurious Emission





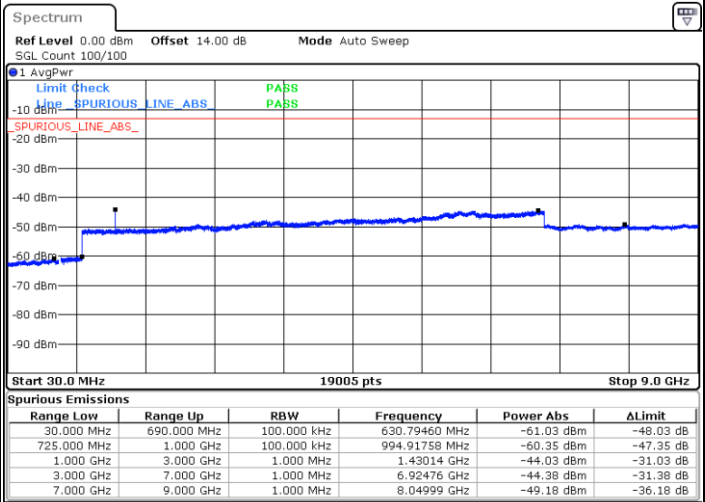
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 2 JUN. 2022 23:21:14

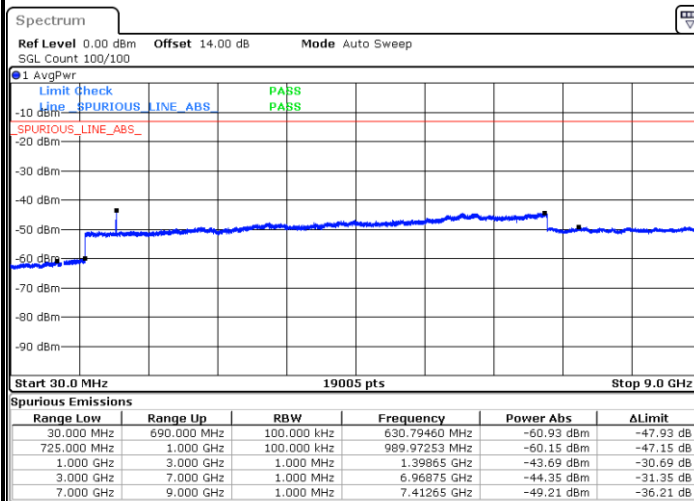
Highest Channel / 16QAM



Date: 2 JUN. 2022 23:22:37

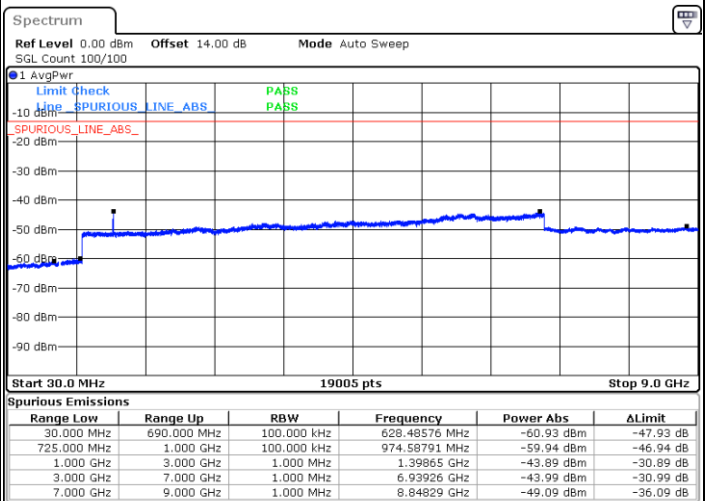
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 2 JUN. 2022 21:13:59

Lowest Channel / 16QAM

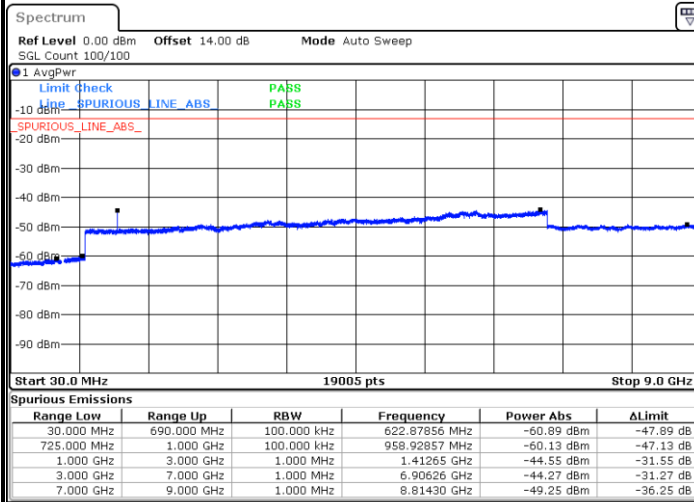


Date: 2 JUN. 2022 21:15:22



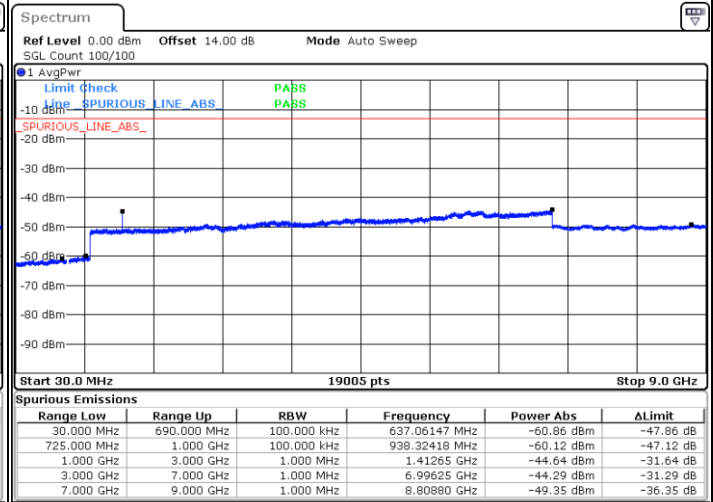
LTE Band 12 / 3MHz

Middle Channel / QPSK



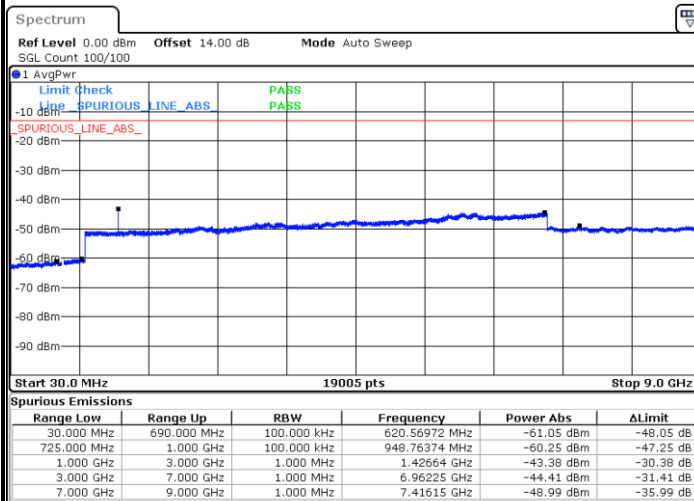
Date: 2 JUN. 2022 21:19:39

Middle Channel / 16QAM



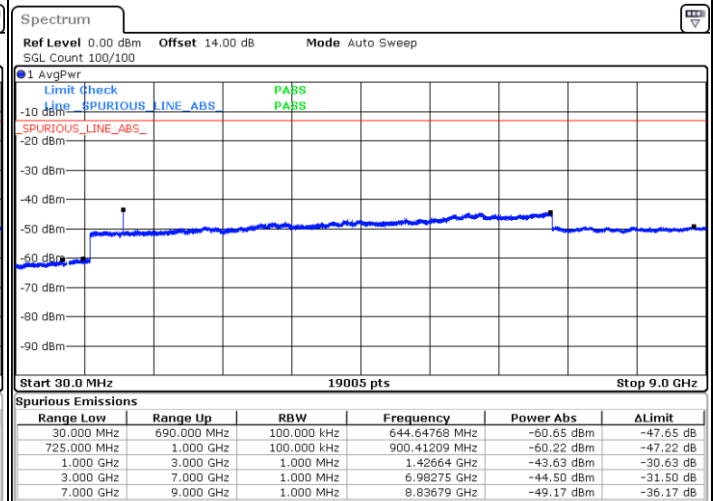
Date: 2 JUN. 2022 21:18:16

Highest Channel / QPSK



Date: 2 JUN. 2022 21:29:40

Highest Channel / 16QAM

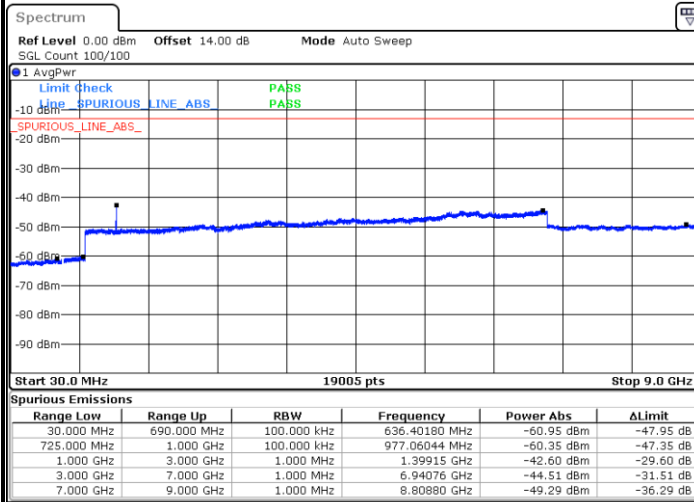


Date: 2 JUN. 2022 21:31:04



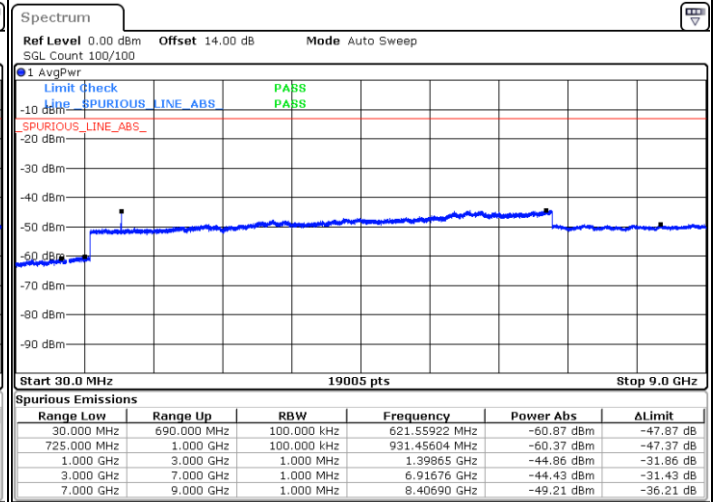
LTE Band 12 / 5MHz

Lowest Channel / QPSK



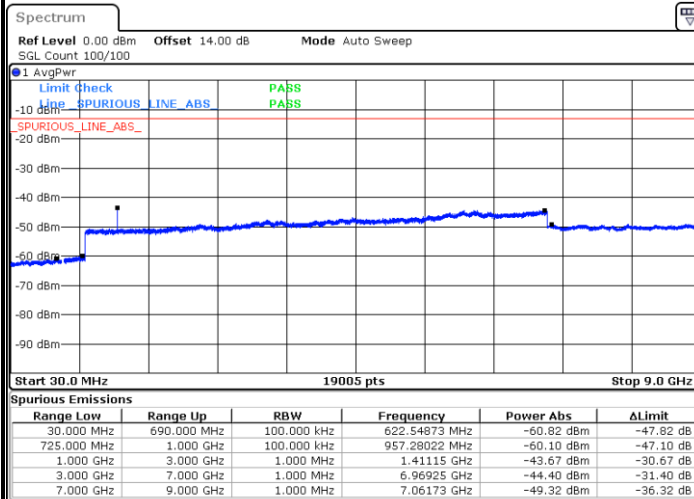
Date: 2 JUN. 2022 22:03:48

Lowest Channel / 16QAM



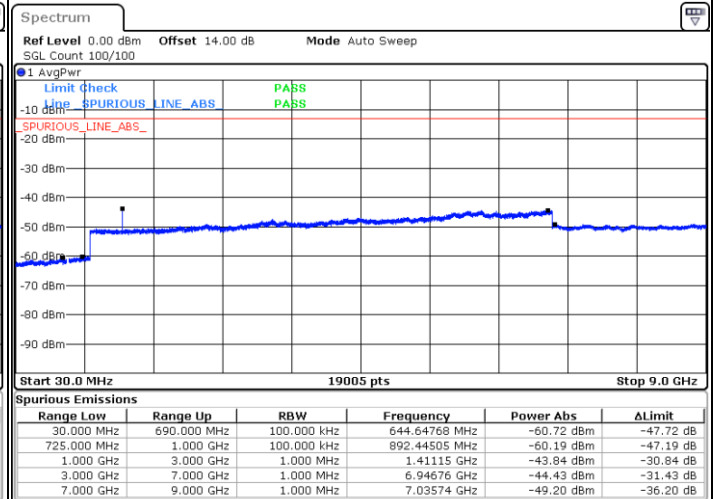
Date: 2 JUN. 2022 22:05:11

Middle Channel / QPSK



Date: 2 JUN. 2022 22:09:27

Middle Channel / 16QAM

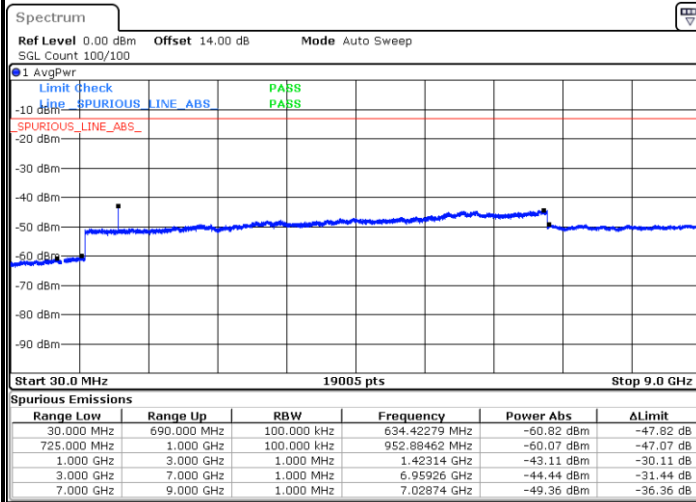


Date: 2 JUN. 2022 22:08:04



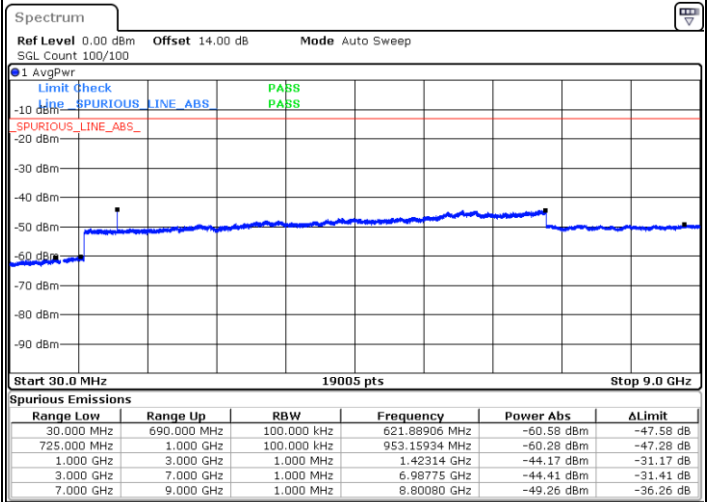
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 2 JUN. 2022 22:19:49

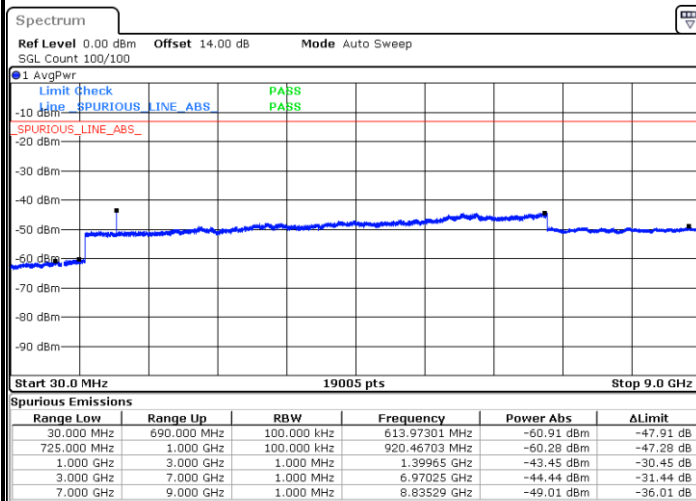
Highest Channel / 16QAM



Date: 2 JUN. 2022 22:18:25

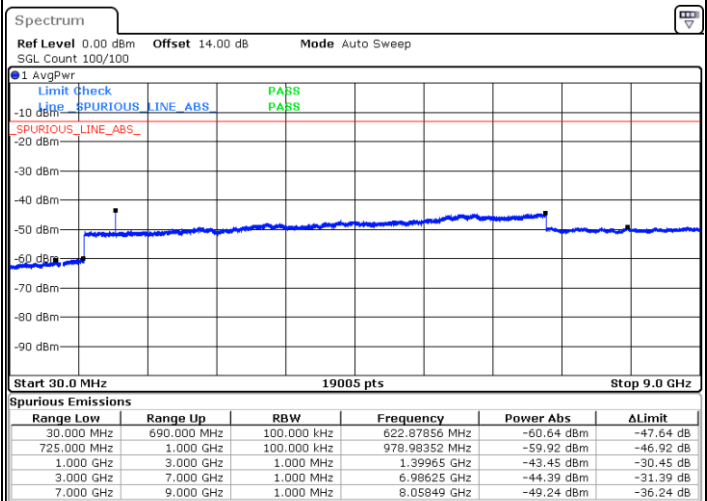
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 2 JUN. 2022 22:28:38

Lowest Channel / 16QAM

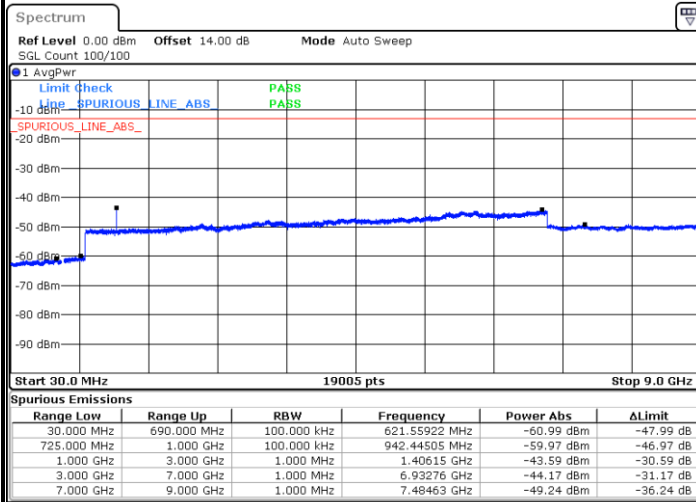


Date: 2 JUN. 2022 22:30:02



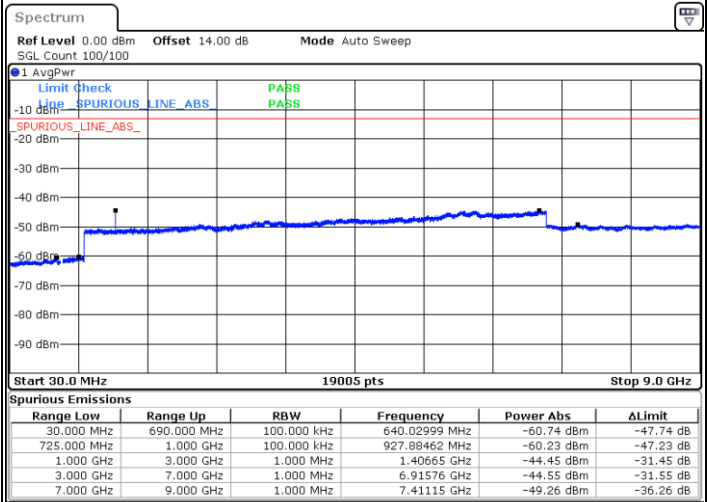
LTE Band 12 / 10MHz

Middle Channel / QPSK



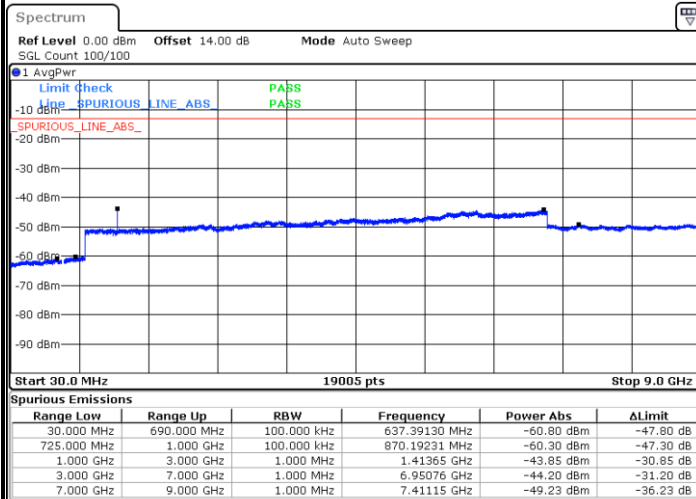
Date: 2 JUN. 2022 22:34:19

Middle Channel / 16QAM



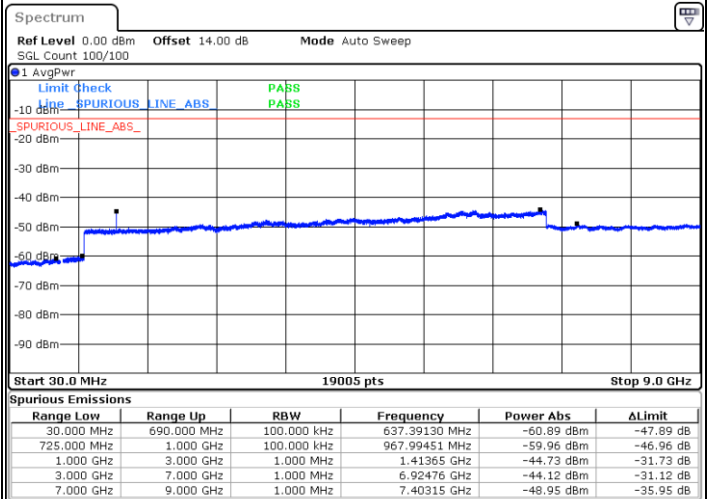
Date: 2 JUN. 2022 22:32:56

Highest Channel / QPSK



Date: 2 JUN. 2022 22:43:17

Highest Channel / 16QAM

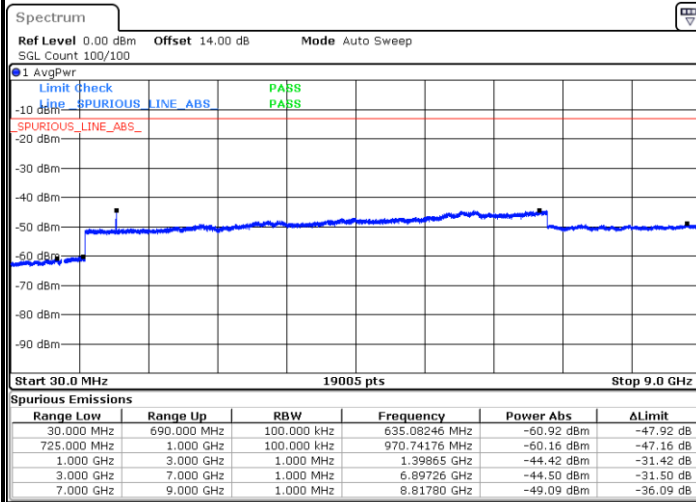


Date: 2 JUN. 2022 22:44:41



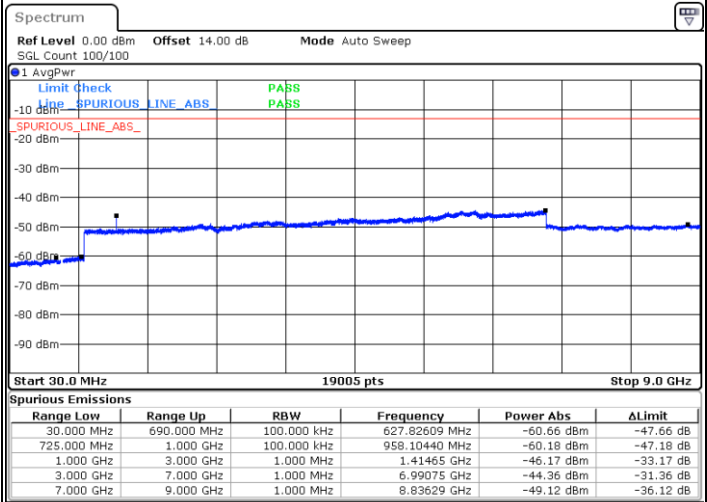
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



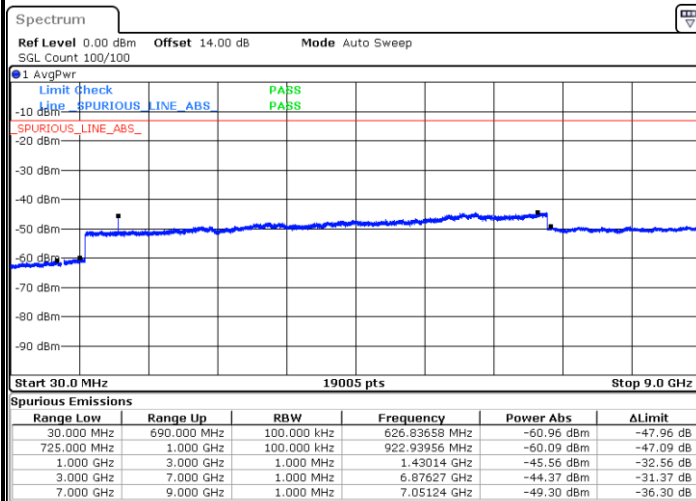
Date: 2 JUN.2022 23:27:28

Middle Channel / 64QAM



Date: 2 JUN.2022 23:29:32

Highest Channel / 64QAM



Date: 2 JUN.2022 23:34:33

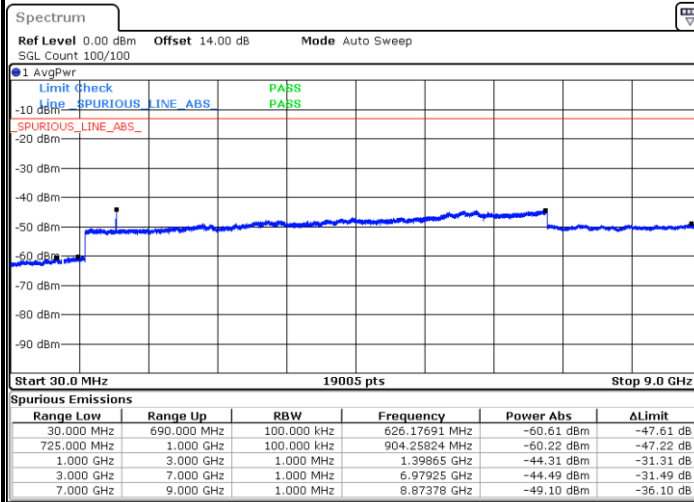
N/A

N/A



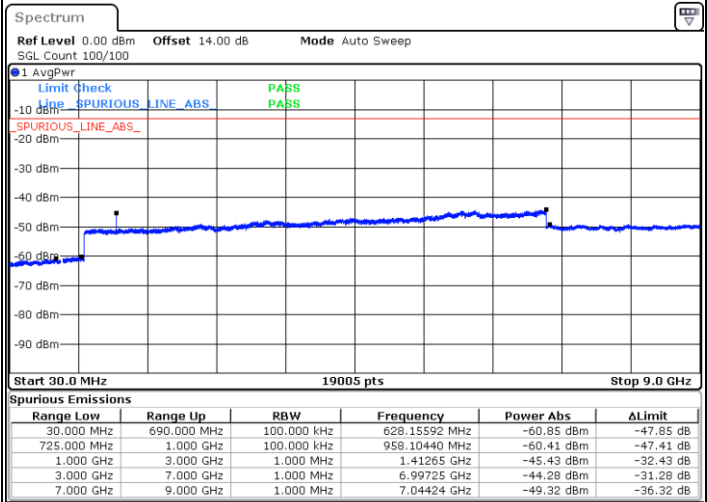
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



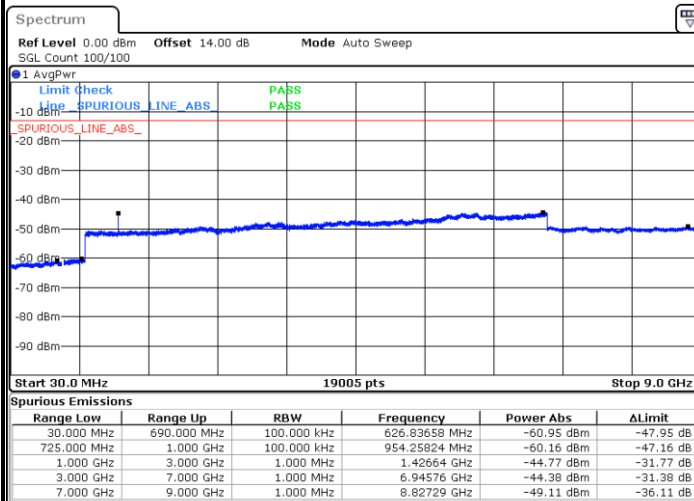
Date: 2.JUN.2022 21:35:56

Middle Channel / 64QAM



Date: 2.JUN.2022 21:38:00

Highest Channel / 64QAM



Date: 2.JUN.2022 21:43:01

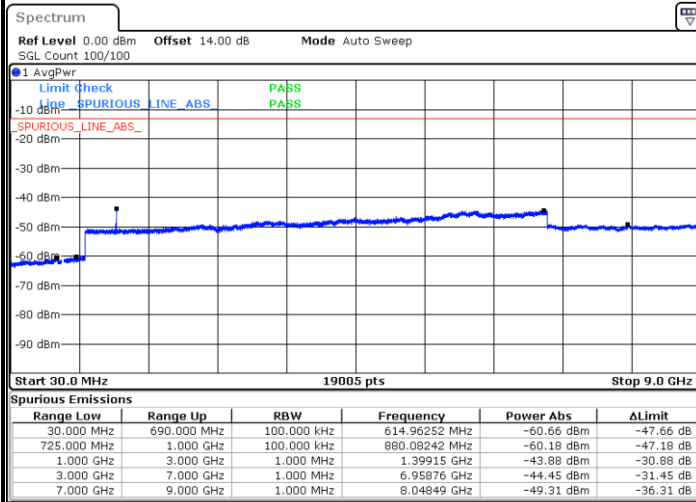
N/A

N/A



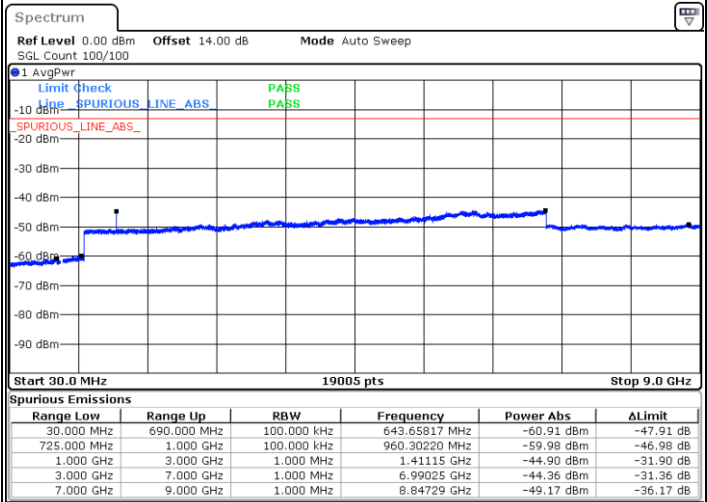
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



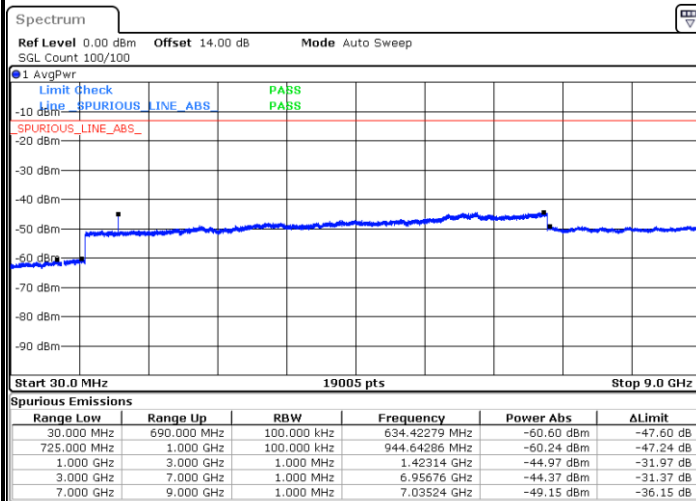
Date: 2.JUN.2022 21:47:53

Middle Channel / 64QAM



Date: 2.JUN.2022 21:49:57

Highest Channel / 64QAM



Date: 2.JUN.2022 21:54:59

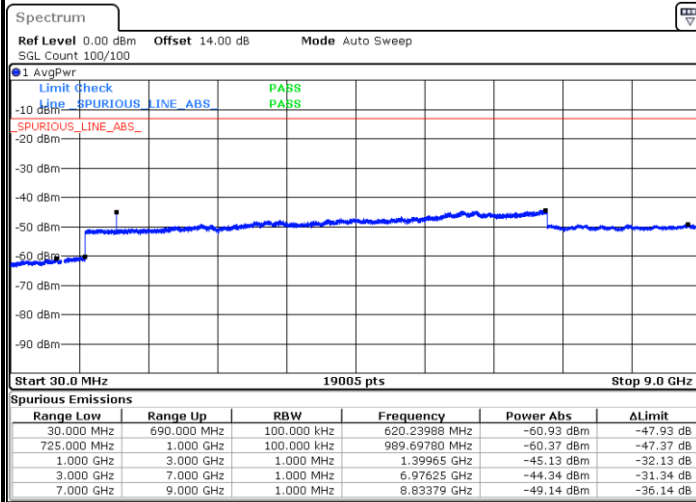
N/A

N/A



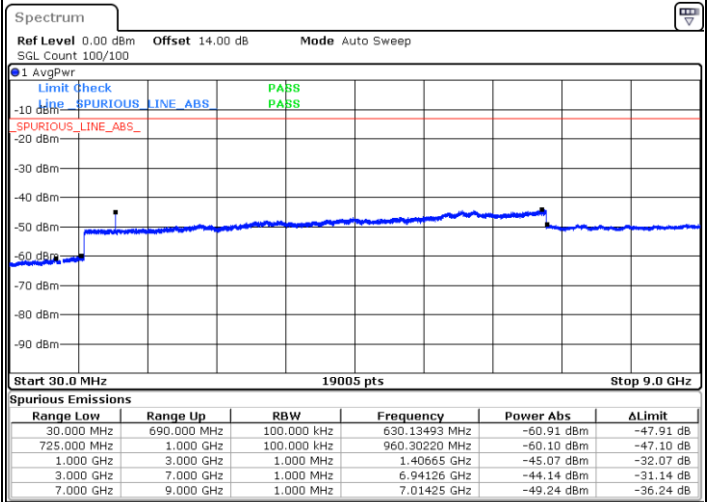
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



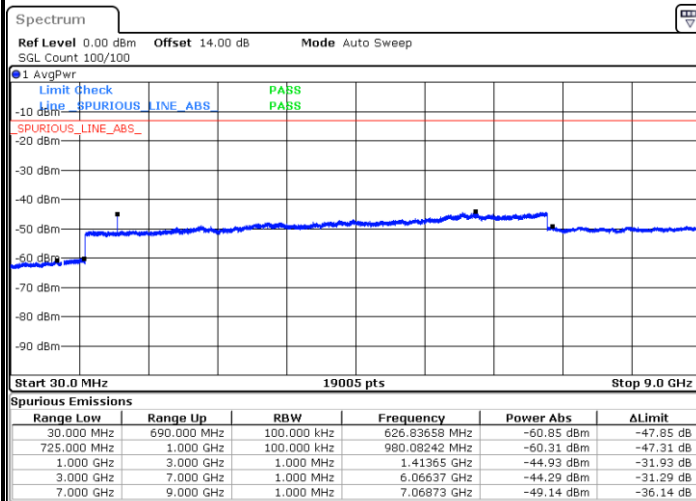
Date: 2 JUN.2022 22:49:32

Middle Channel / 64QAM



Date: 2 JUN.2022 22:51:36

Highest Channel / 64QAM



Date: 2 JUN.2022 22:56:37

N/A

N/A

**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	0.0035	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0188	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0177	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0172	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =7.78 V. ; Battery End Point (BEP) =6 V. ; Maximum Voltage =8.96 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

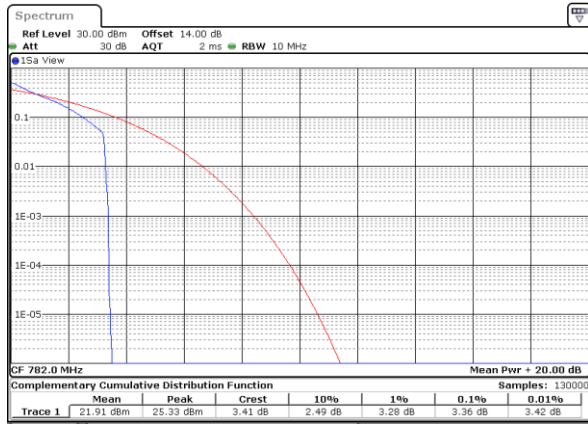
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.36	4.58	4.29	5.65	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.41	5.68	-	-	
Highest CH	-	-	-	-	



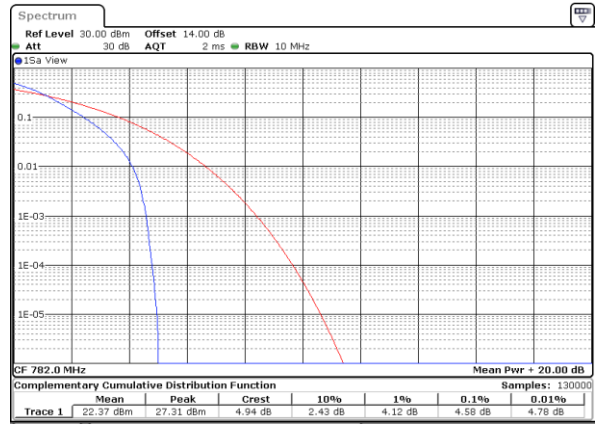
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 10_JUN,2022 16:52:09

Middle Channel / Full RB



Date: 10_JUN,2022 16:52:36

LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 10_JUN,2022 16:51:15

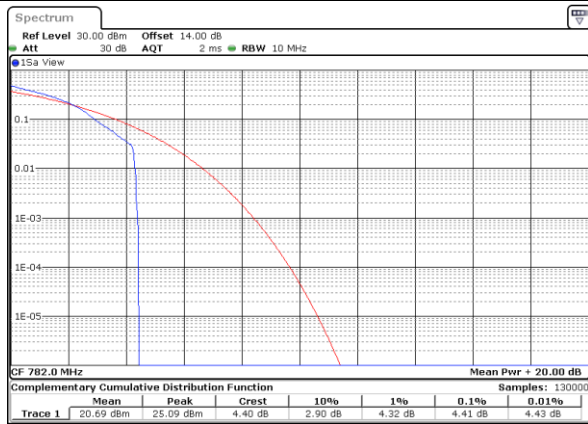
Middle Channel / Full RB



Date: 10_JUN,2022 16:51:42

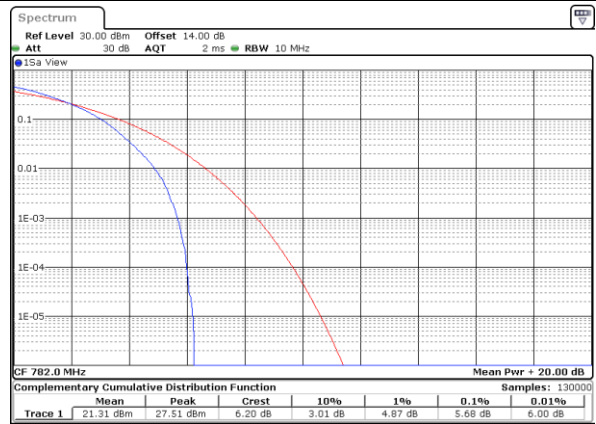
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 10_JUN,2022 16:50:21

Middle Channel / Full RB



Date: 10_JUN,2022 16:50:48

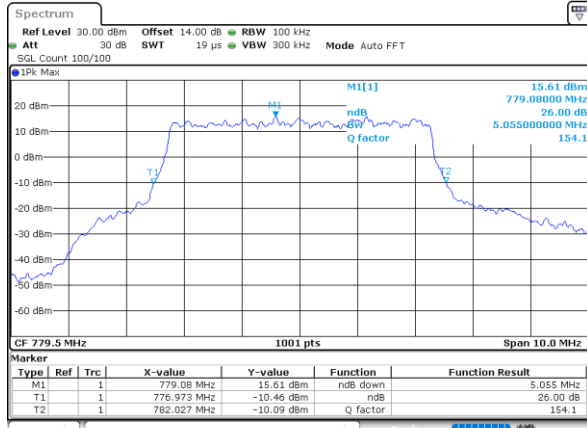
**26dB Bandwidth**

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	-	-	-	-	5.06	4.94	-	-	-	-	-	-
Middle CH	-	-	-	-	5.08	5.13	9.65	9.61	-	-	-	-
Highest CH	-	-	-	-	4.96	4.94	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.03	-	-	-	-	-	-	-
Middle CH	-	-	-	-	5.14	-	9.95	-	-	-	-	-
Highest CH	-	-	-	-	4.89	-	-	-	-	-	-	-



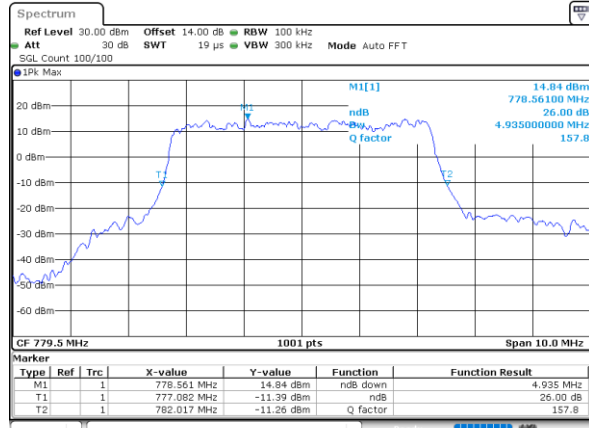
LTE Band 13

Lowest Channel / 5MHz / QPSK



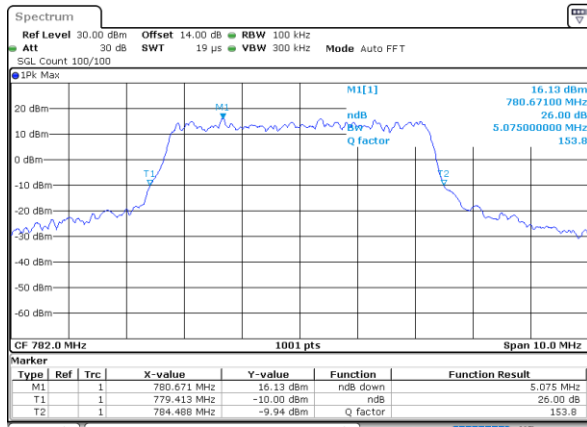
Date: 10 JUN 2022 15:46:02

Lowest Channel / 5MHz / 16QAM



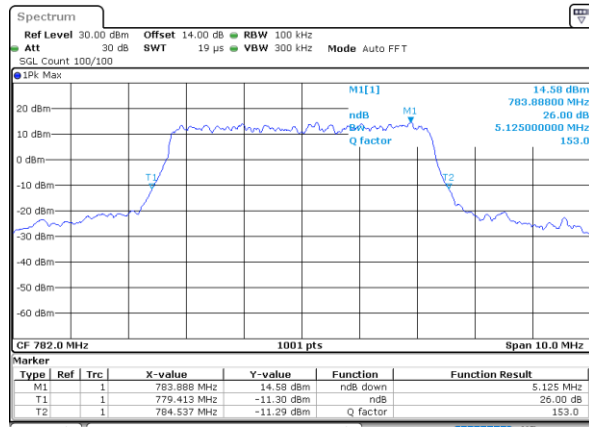
Date: 10 JUN 2022 15:45:37

Middle Channel / 5MHz / QPSK



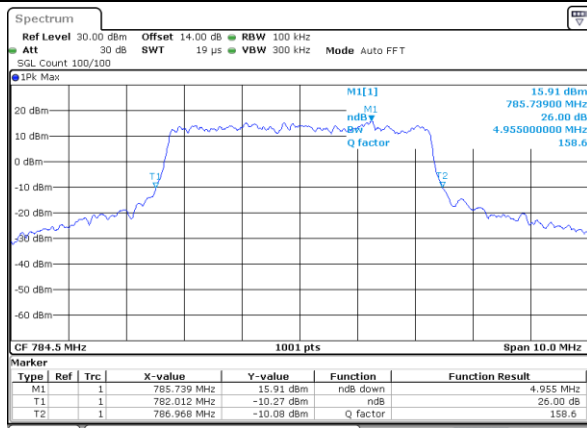
Date: 10 JUN 2022 15:59:57

Middle Channel / 5MHz / 16QAM



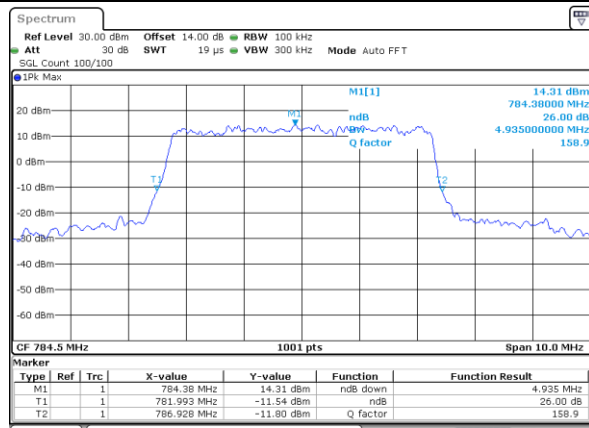
Date: 10 JUN 2022 16:00:22

Highest Channel / 5MHz / QPSK



Date: 10 JUN 2022 16:02:34

Highest Channel / 5MHz / 16QAM

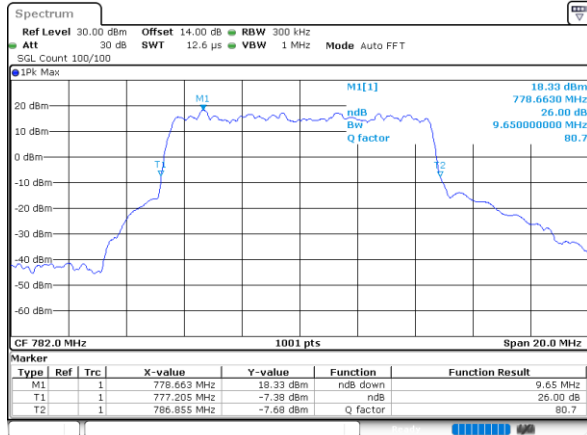


Date: 10 JUN 2022 16:02:09

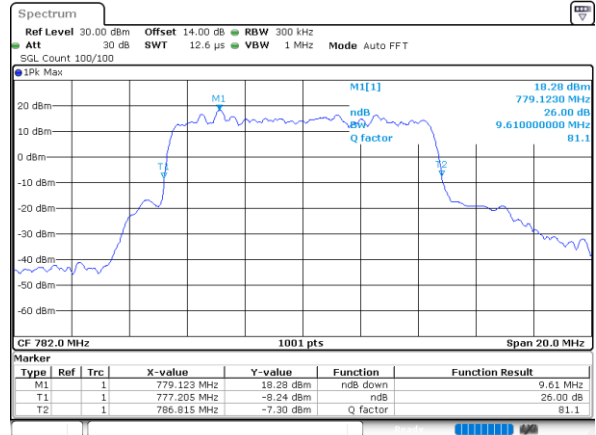


LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

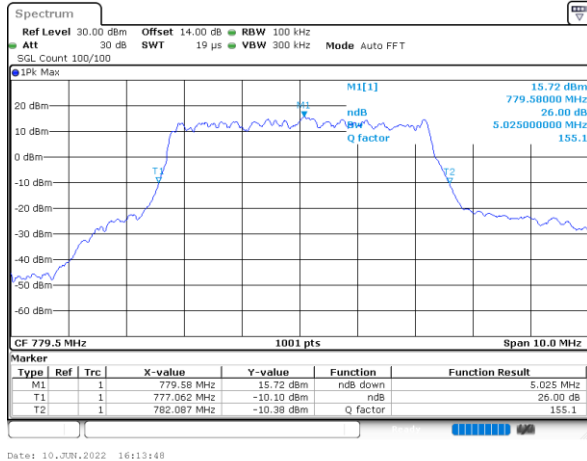




LTE Band 13

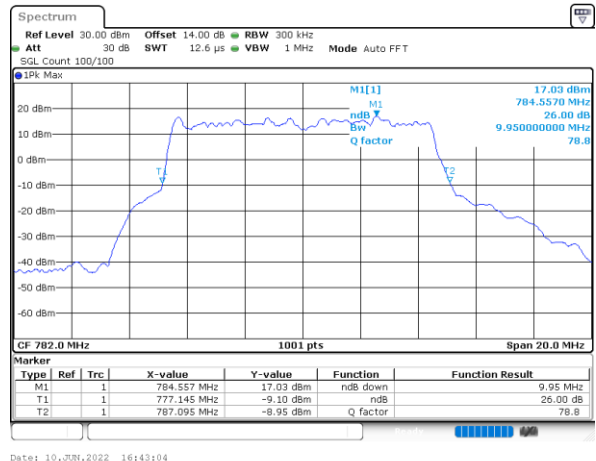
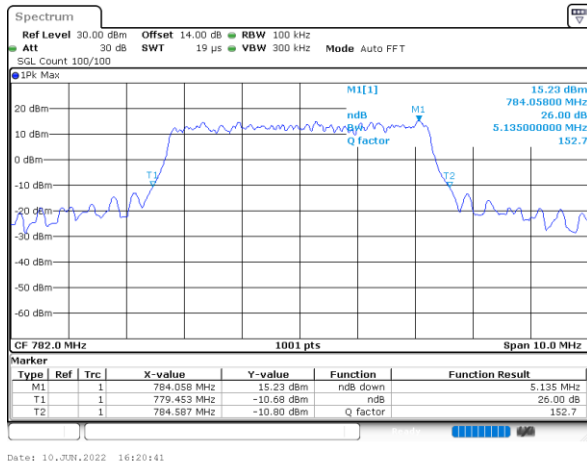
Lowest Channel / 5MHz / 64QAM

N/A



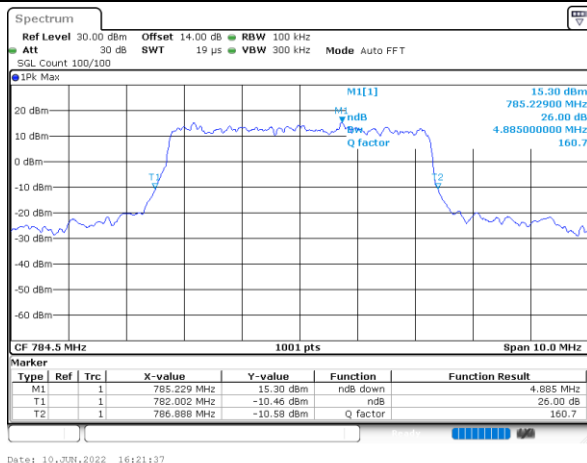
Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

N/A



N/A

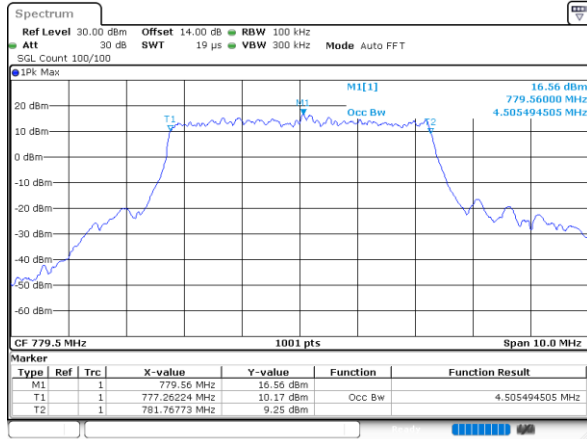
**Occupied Bandwidth**

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	4.50	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	4.51	9.03	8.97	-	-	-	-
Highest CH	-	-	-	-	4.48	4.52	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	-	-	-	-	-	-

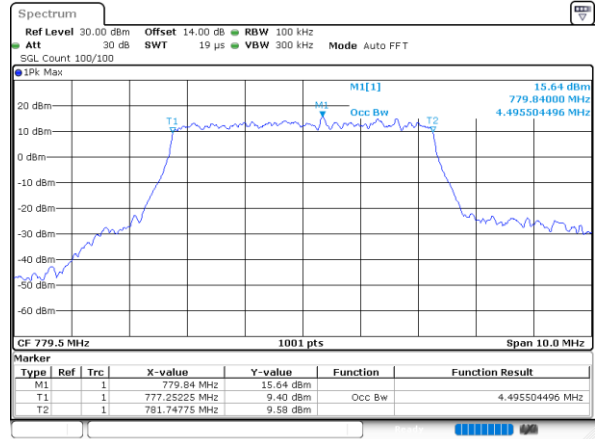


LTE Band 13

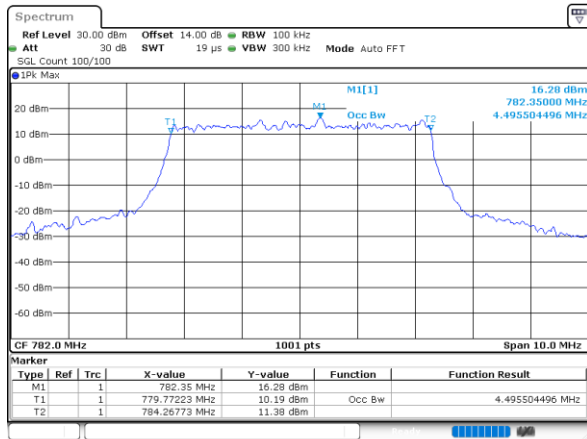
Lowest Channel / 5MHz / QPSK



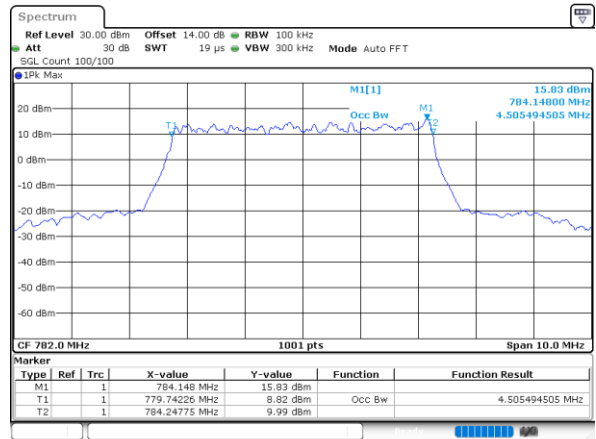
Lowest Channel / 5MHz / 16QAM



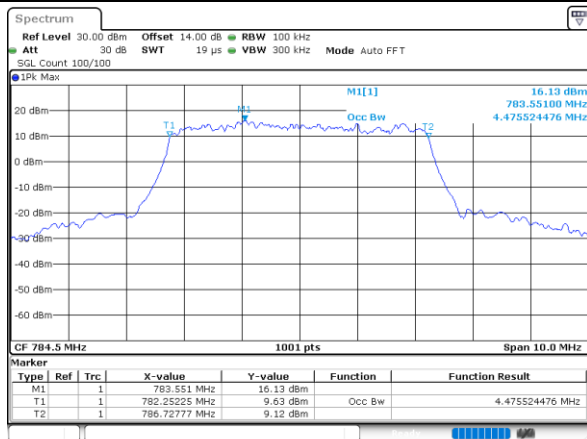
Middle Channel / 5MHz / QPSK



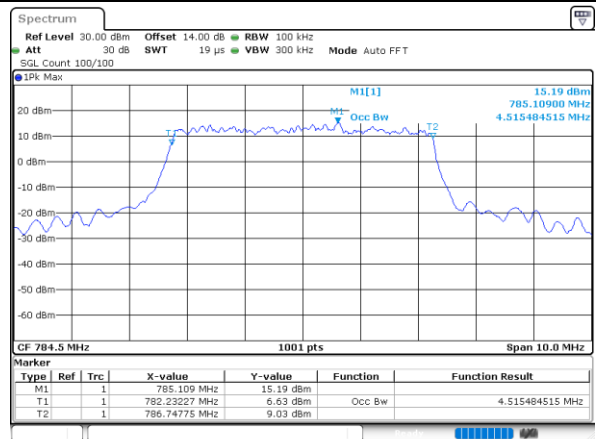
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



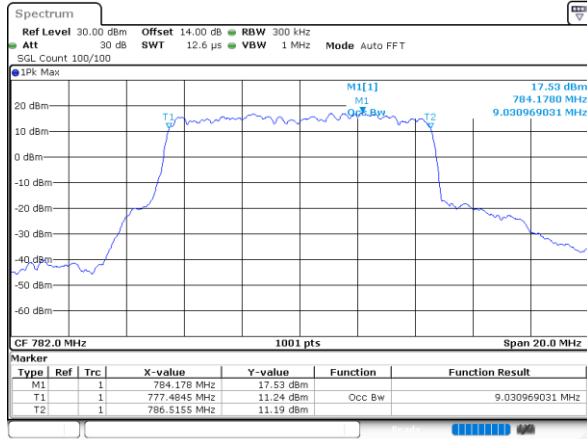
Highest Channel / 5MHz / 16QAM



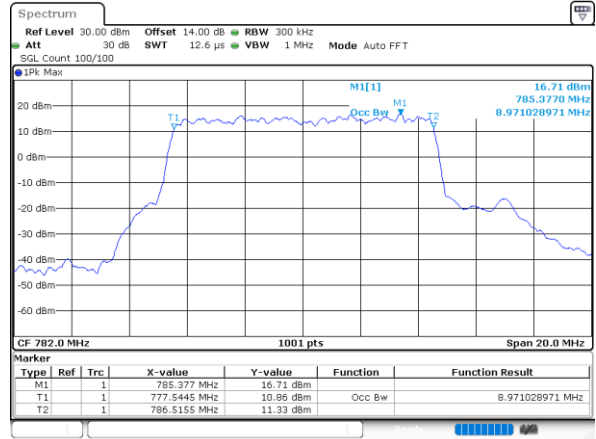


LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

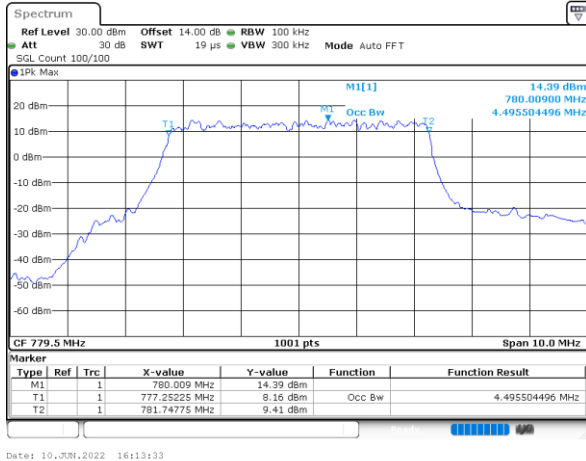




LTE Band 13

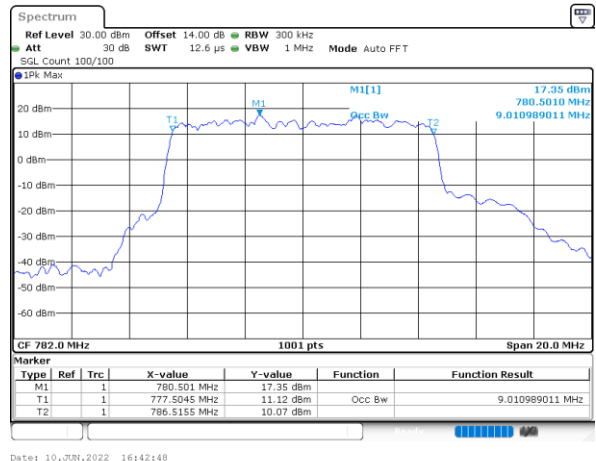
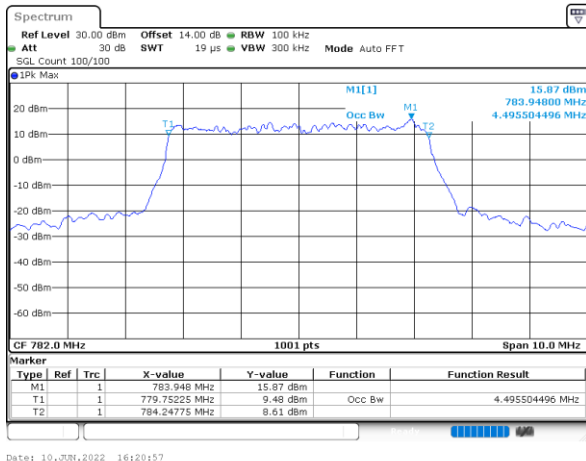
Lowest Channel / 5MHz / 64QAM

N/A



Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

N/A

