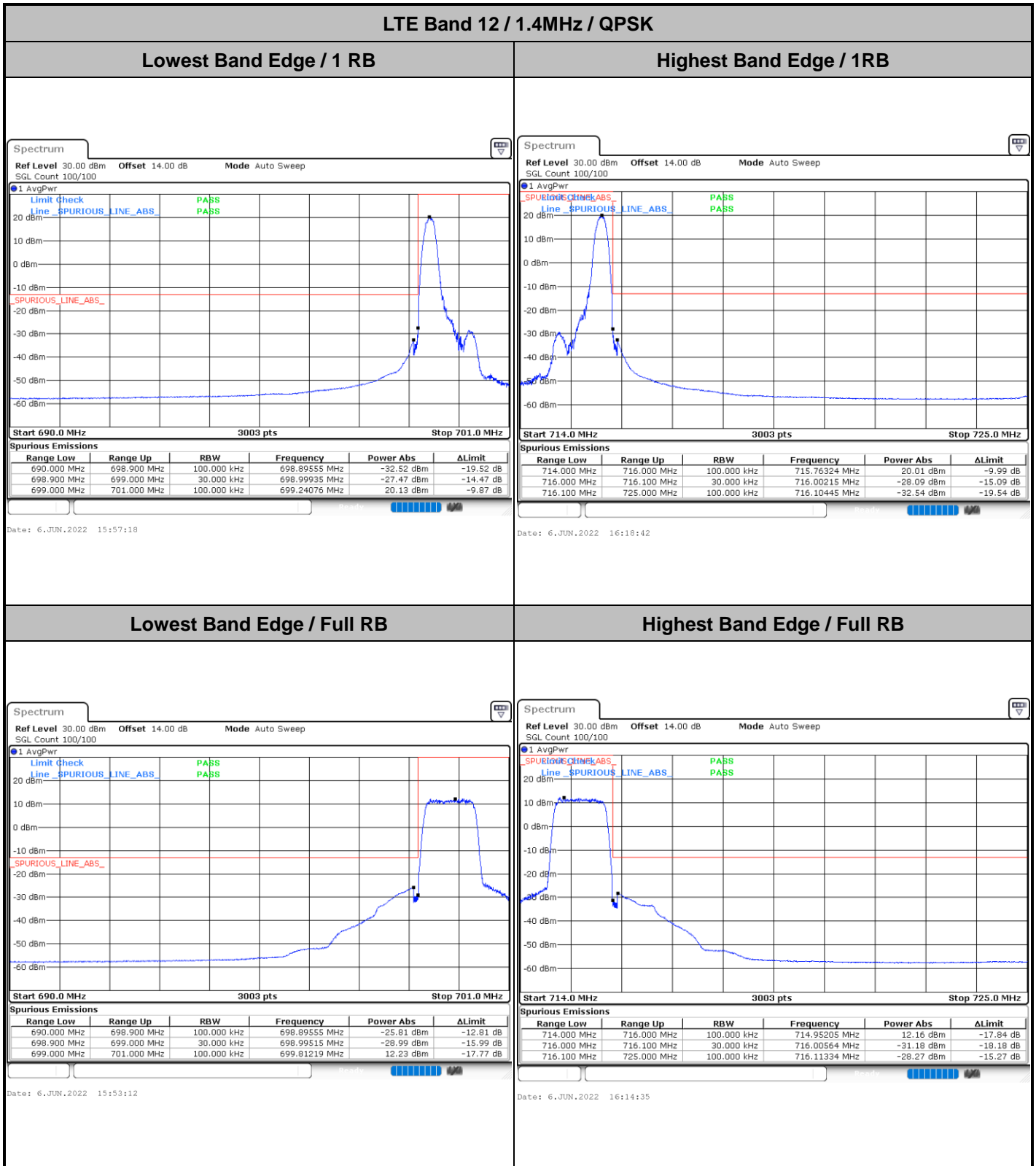




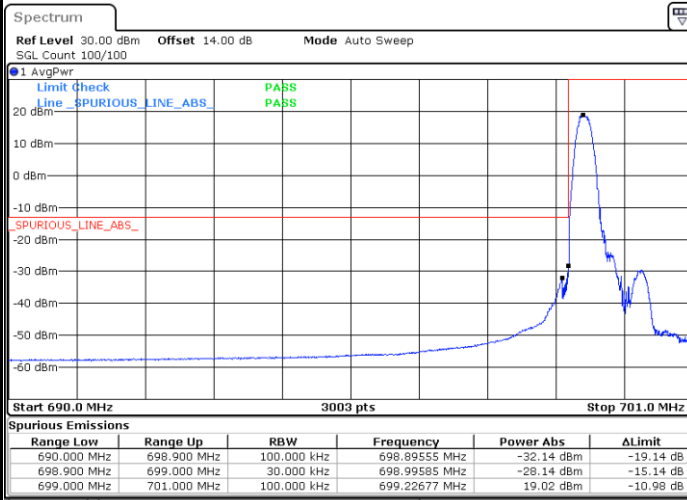
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



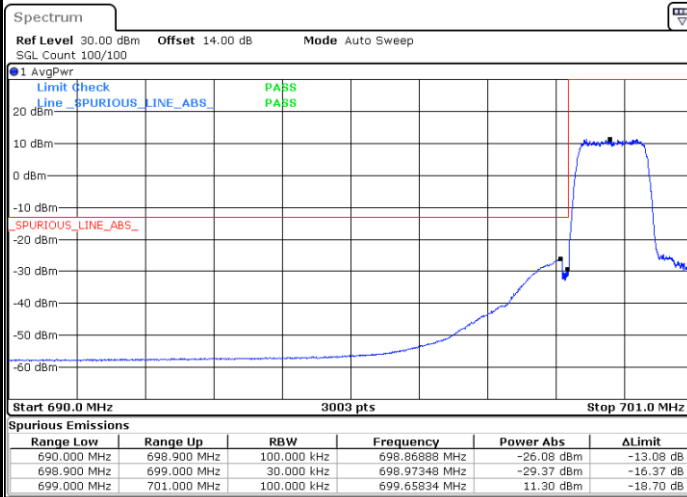
Date: 6.JUN.2022 15:55:56

Highest Band Edge / 1 RB



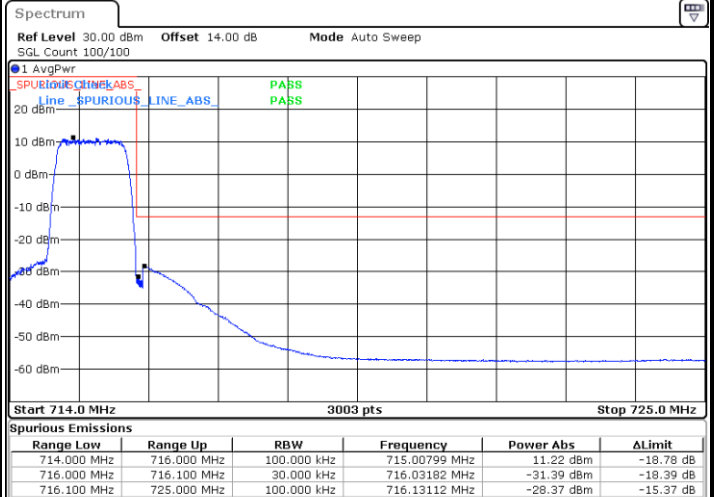
Date: 6.JUN.2022 16:17:19

Lowest Band Edge / Full RB



Date: 6.JUN.2022 15:54:34

Highest Band Edge / Full RB

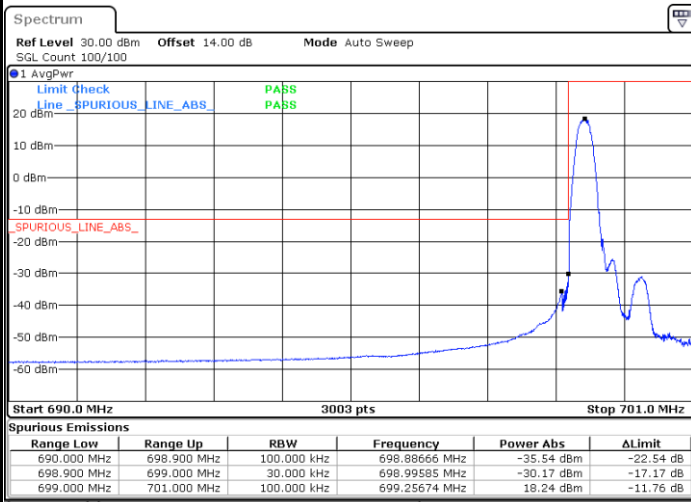


Date: 6.JUN.2022 16:15:57



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



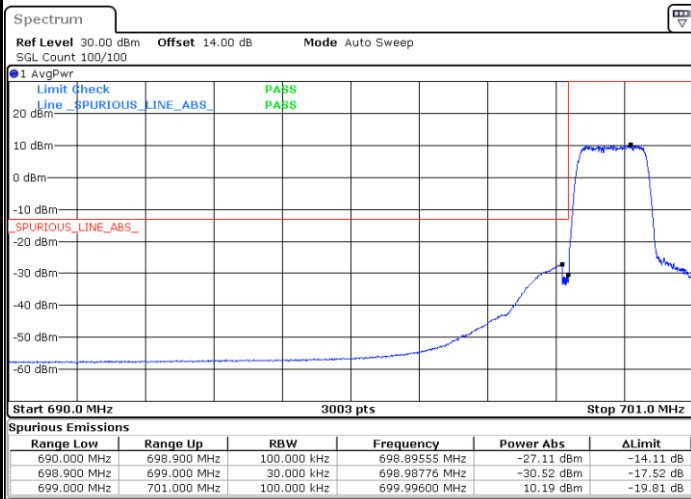
Date: 6.JUN.2022 16:25:22

Highest Band Edge / 1 RB



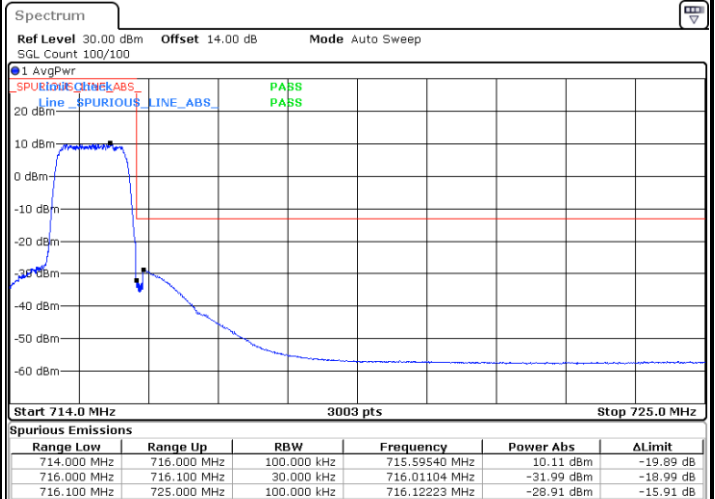
Date: 6.JUN.2022 16:32:32

Lowest Band Edge / Full RB



Date: 6.JUN.2022 16:24:00

Highest Band Edge / Full RB

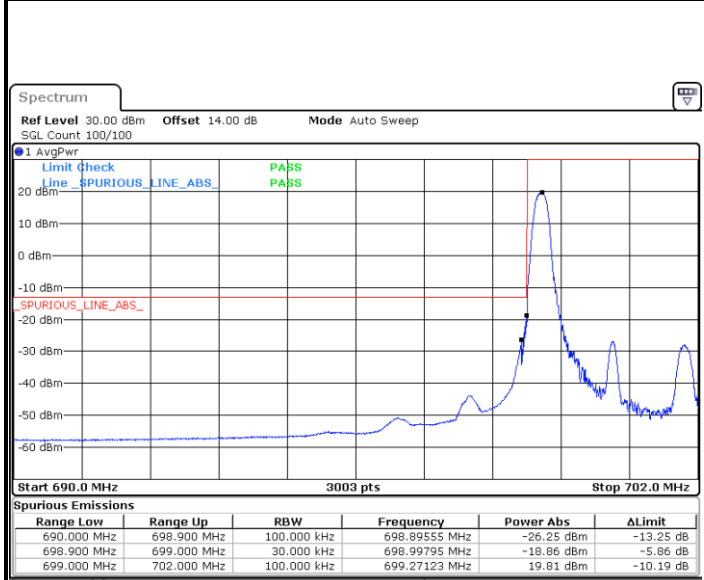


Date: 6.JUN.2022 16:31:10



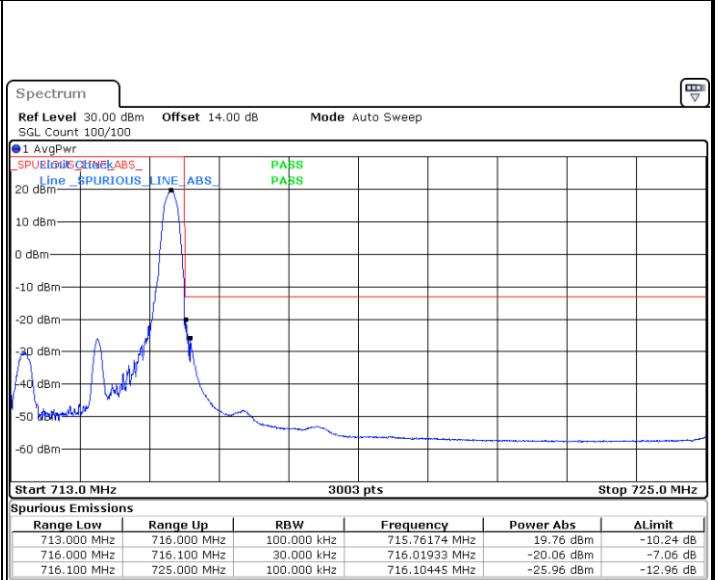
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



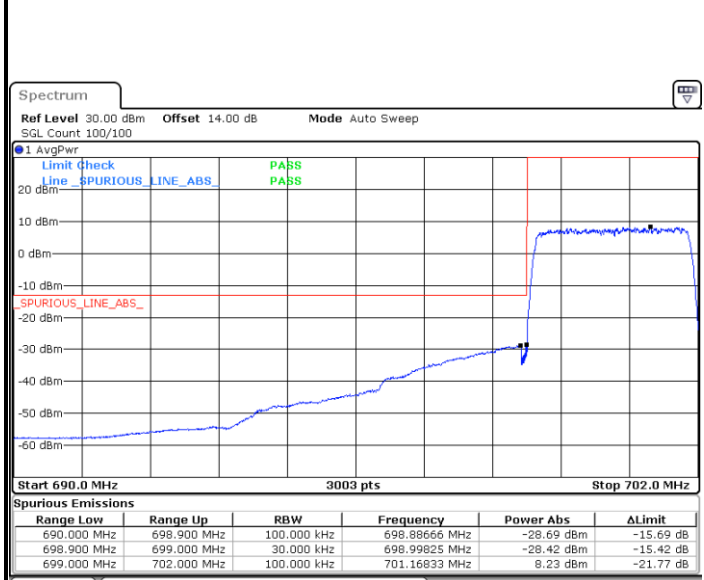
Date: 6.JUN.2022 14:05:29

Highest Band Edge / 1 RB



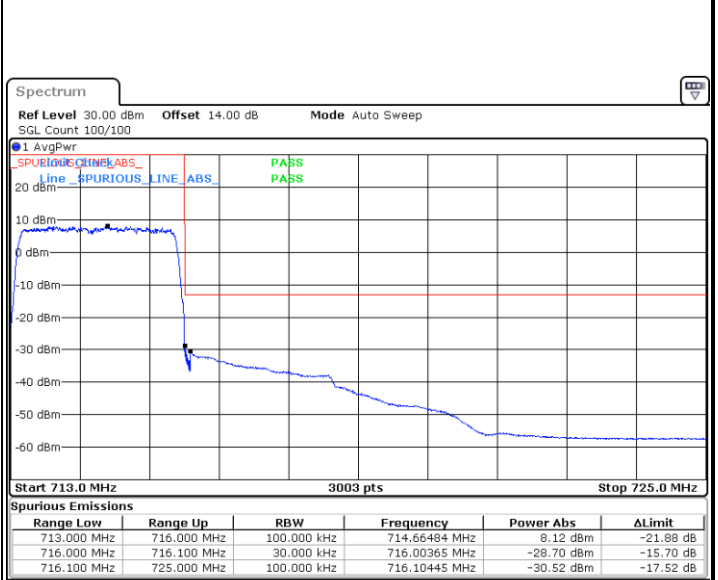
Date: 6.JUN.2022 14:20:26

Lowest Band Edge / Full RB



Date: 6.JUN.2022 14:01:22

Highest Band Edge / Full RB



Date: 6.JUN.2022 14:16:20



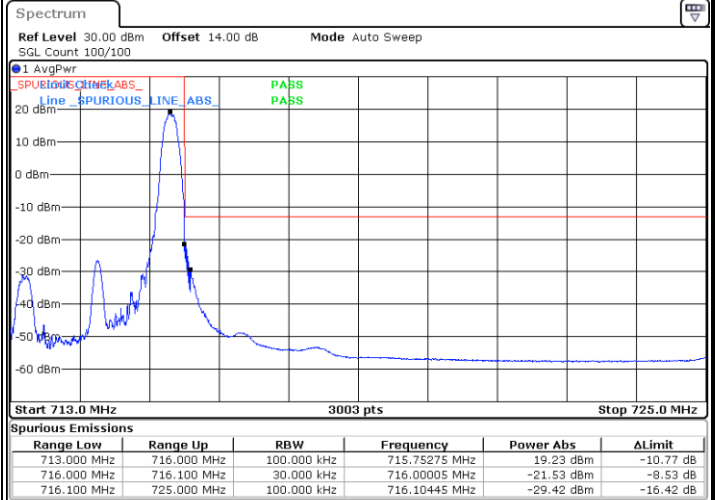
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



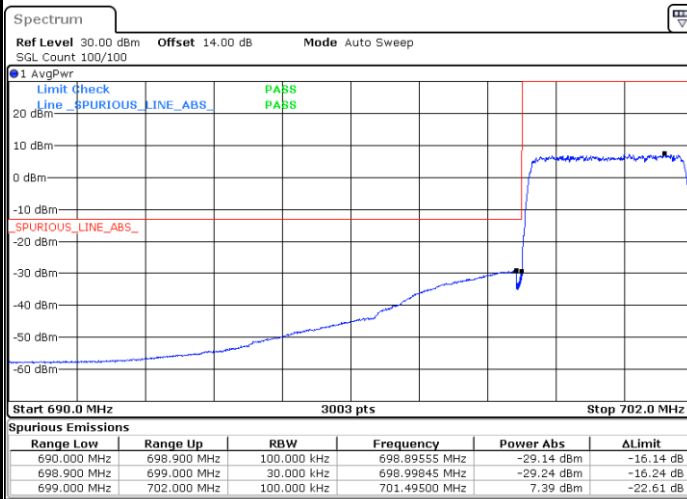
Date: 6.JUN.2022 14:04:07

Highest Band Edge / 1 RB



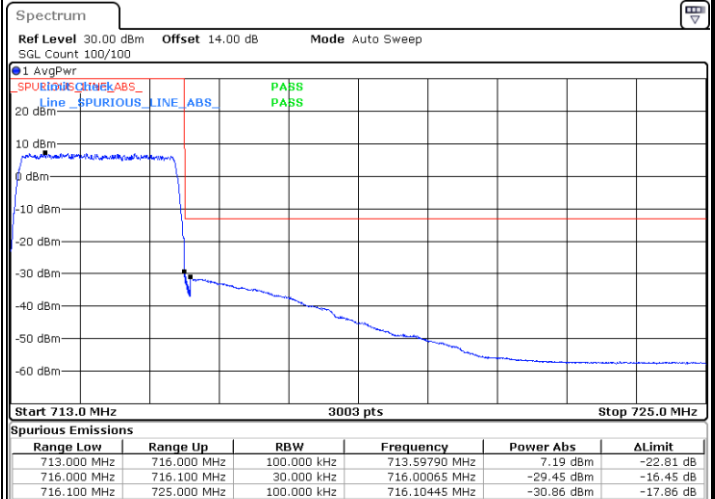
Date: 6.JUN.2022 14:19:04

Lowest Band Edge / Full RB



Date: 6.JUN.2022 14:02:45

Highest Band Edge / Full RB

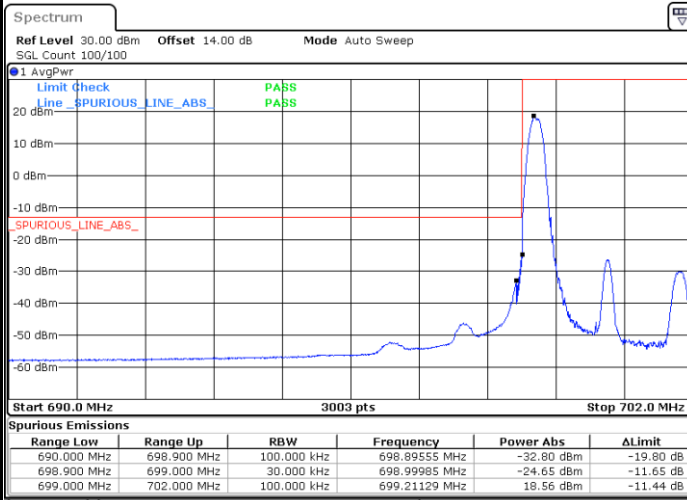


Date: 6.JUN.2022 14:17:42



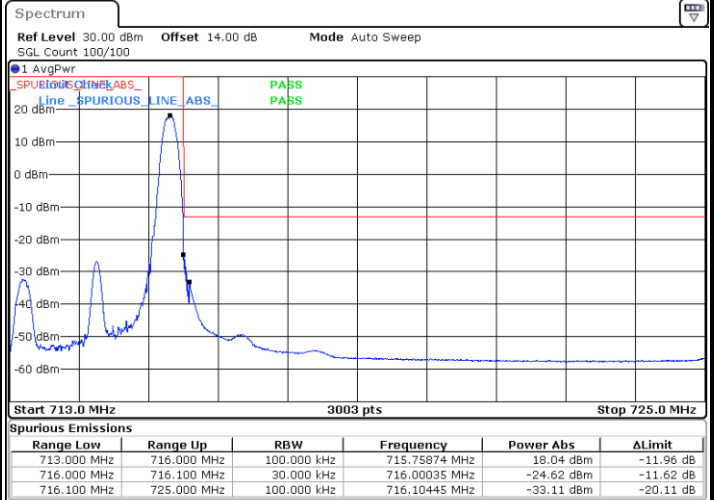
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



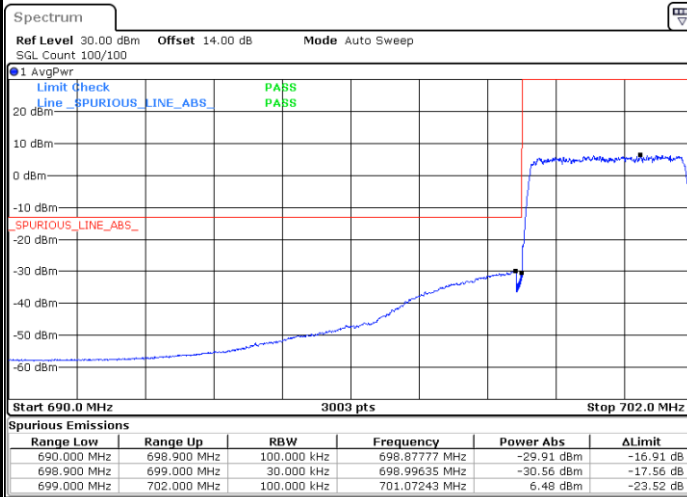
Date: 6.JUN.2022 14:27:06

Highest Band Edge / 1 RB



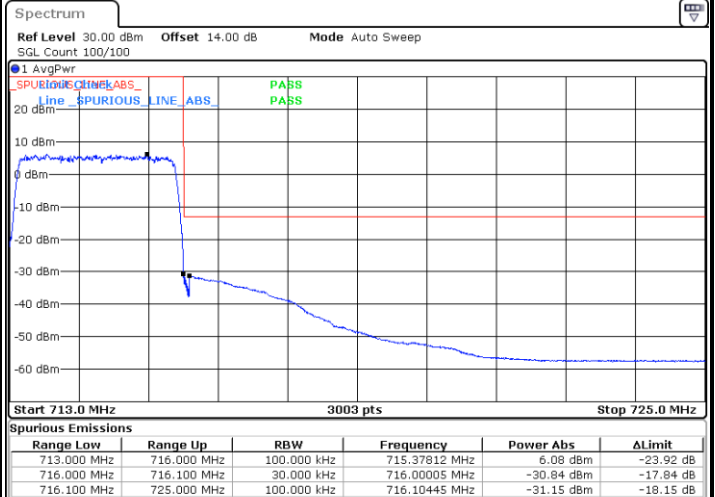
Date: 6.JUN.2022 14:34:15

Lowest Band Edge / Full RB



Date: 6.JUN.2022 14:25:43

Highest Band Edge / Full RB

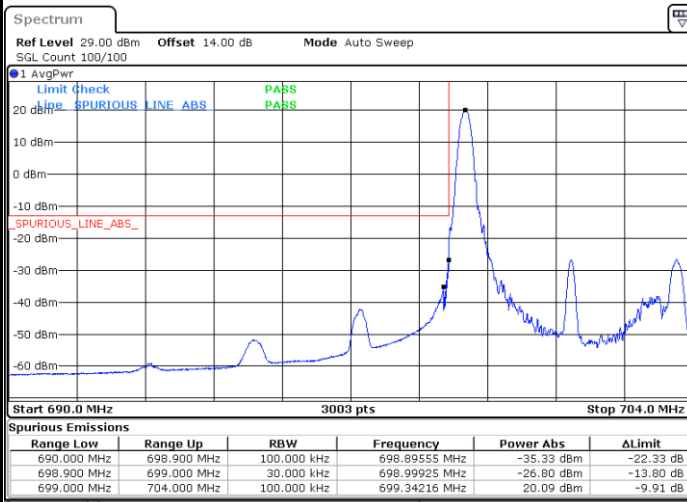


Date: 6.JUN.2022 14:32:52



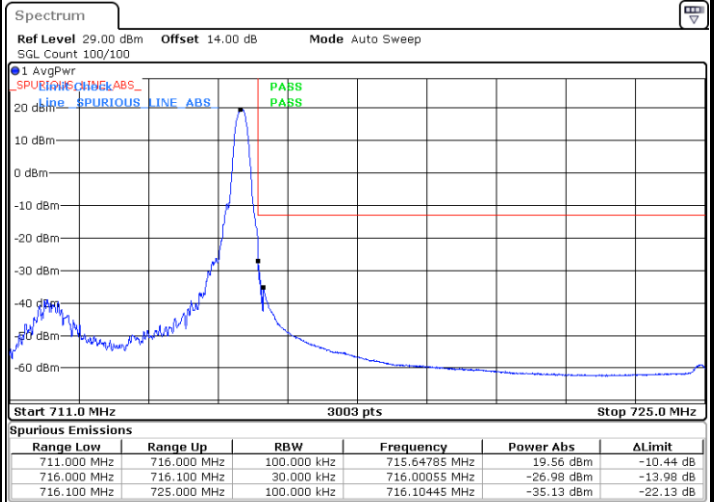
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



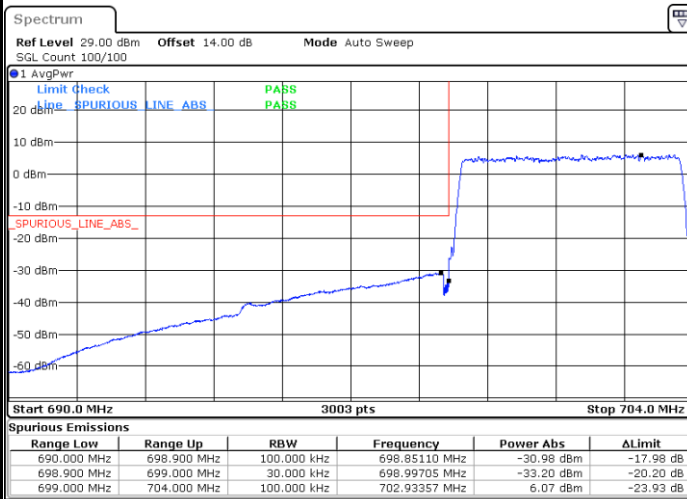
Date: 6.JUN.2022 14:54:54

Highest Band Edge / 1 RB



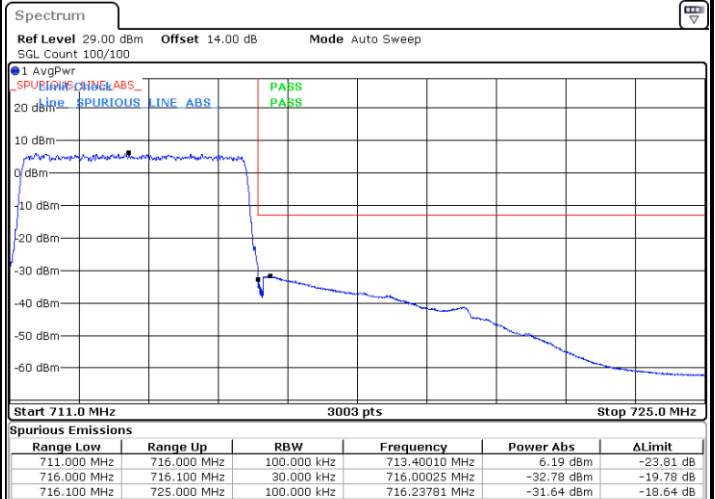
Date: 6.JUN.2022 15:08:26

Lowest Band Edge / Full RB



Date: 6.JUN.2022 14:50:47

Highest Band Edge / Full RB

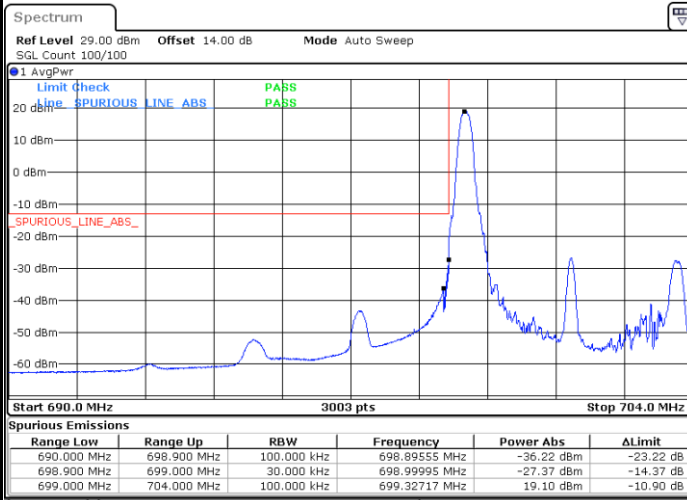


Date: 6.JUN.2022 15:05:41



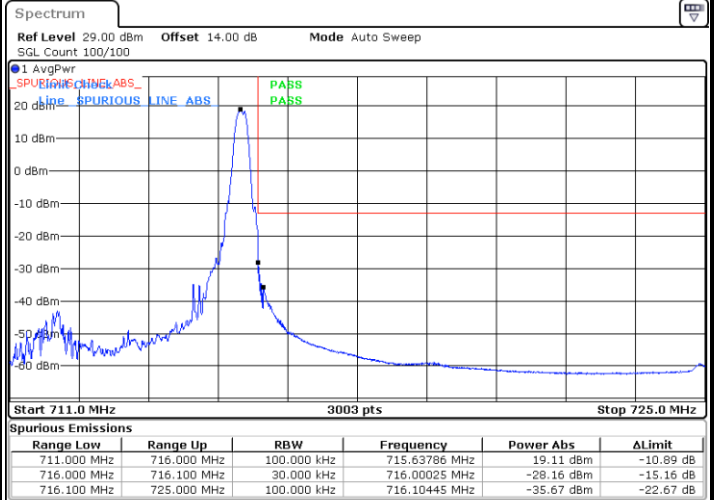
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



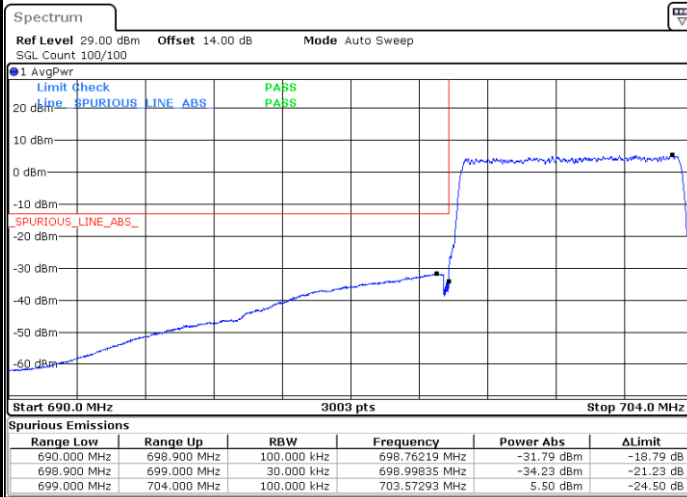
Date: 6.JUN.2022 14:53:32

Highest Band Edge / 1 RB



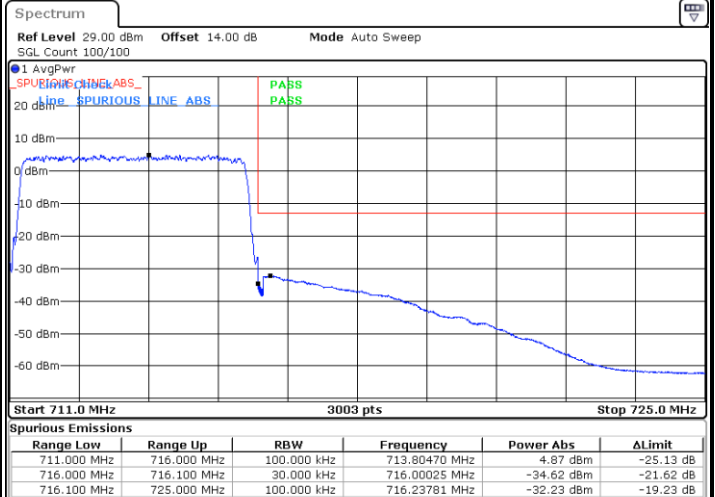
Date: 6.JUN.2022 15:09:48

Lowest Band Edge / Full RB



Date: 6.JUN.2022 14:52:09

Highest Band Edge / Full RB

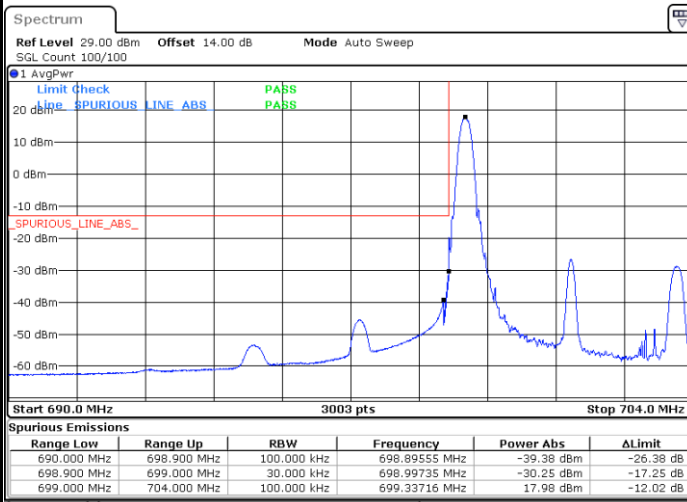


Date: 6.JUN.2022 15:07:03



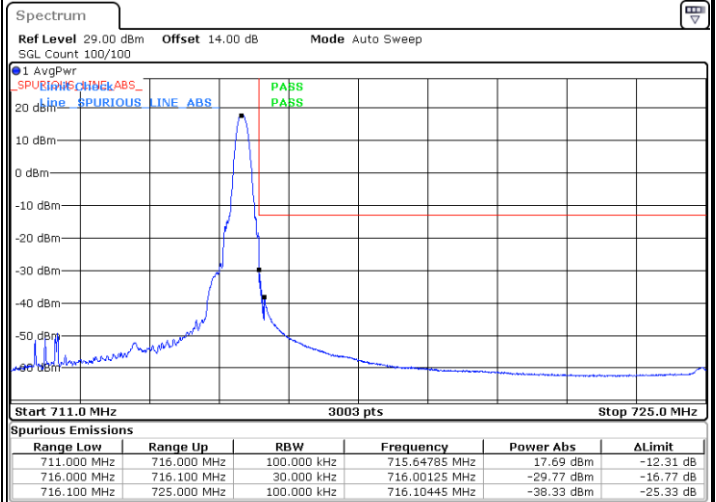
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



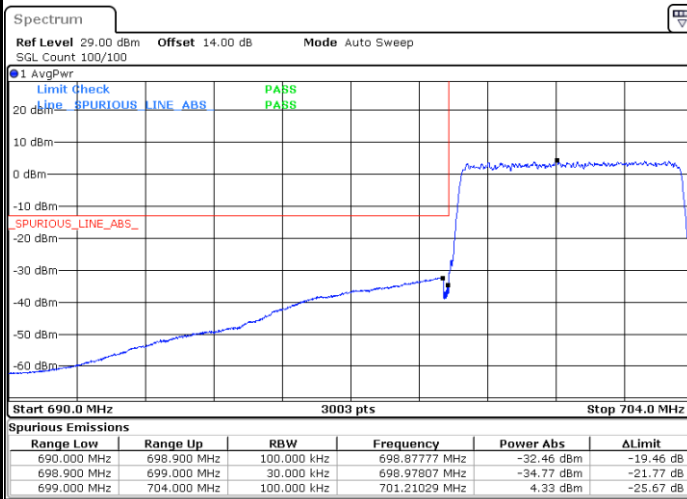
Date: 6.JUN.2022 14:39:13

Highest Band Edge / 1 RB



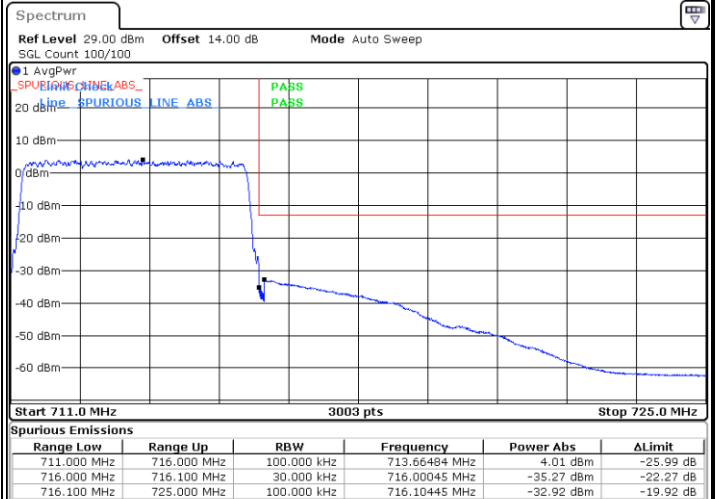
Date: 6.JUN.2022 14:46:23

Lowest Band Edge / Full RB



Date: 6.JUN.2022 14:37:51

Highest Band Edge / Full RB

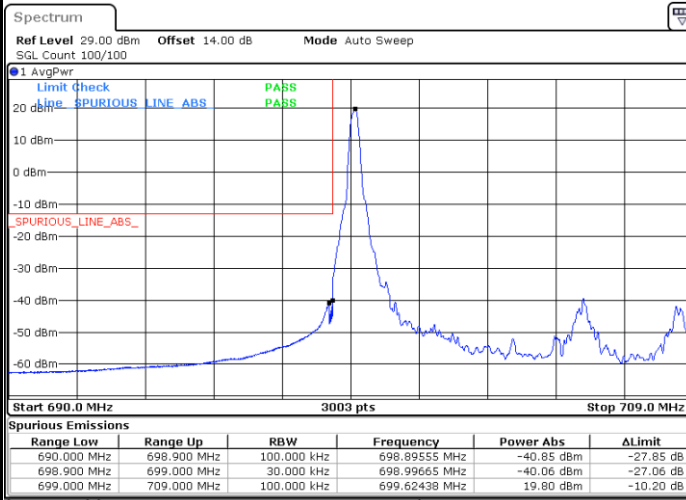


Date: 6.JUN.2022 14:45:01



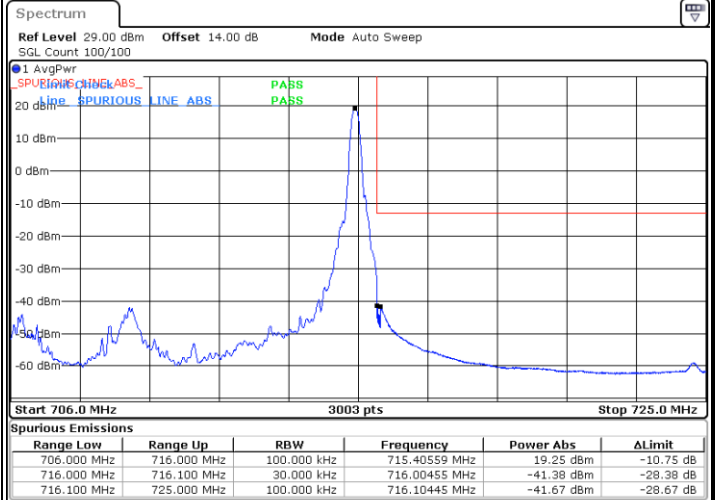
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



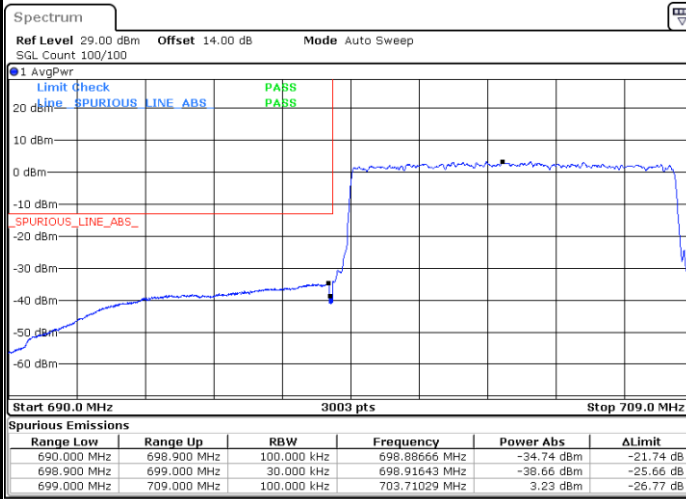
Date: 6.JUN.2022 15:20:03

Highest Band Edge / 1 RB



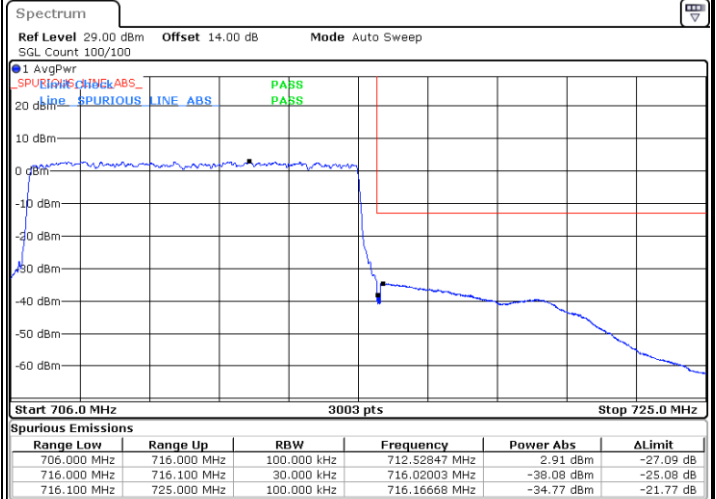
Date: 6.JUN.2022 15:34:58

Lowest Band Edge / Full RB



Date: 6.JUN.2022 15:15:56

Highest Band Edge / Full RB

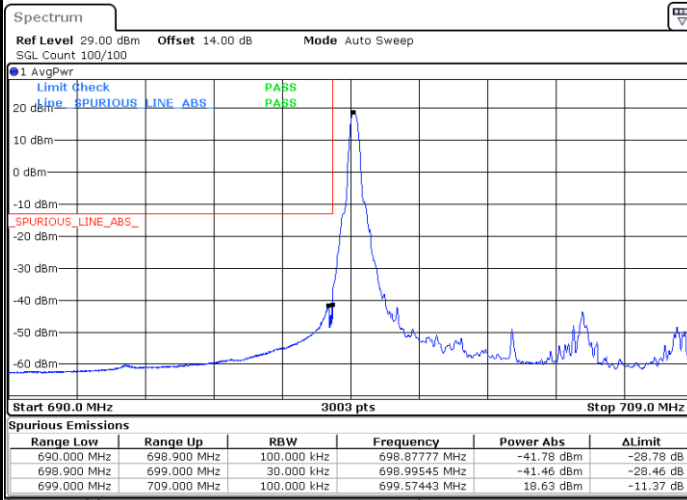


Date: 6.JUN.2022 15:30:51



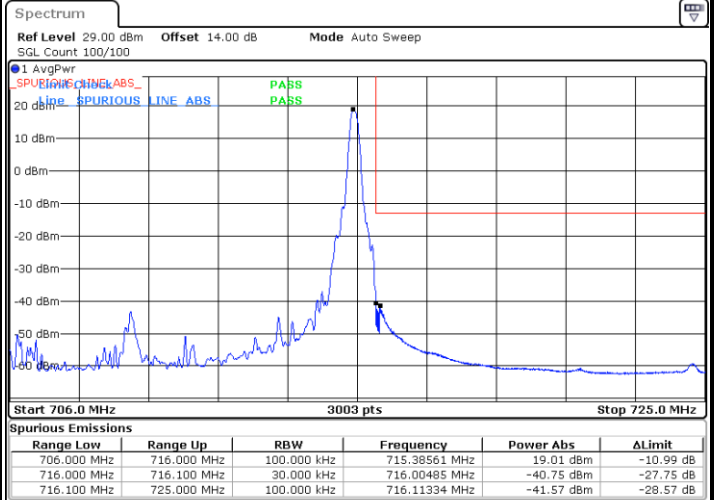
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



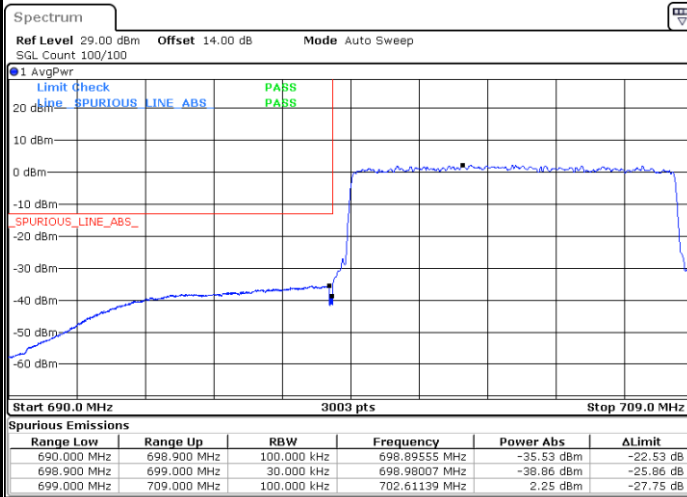
Date: 6.JUN.2022 15:18:41

Highest Band Edge / 1 RB



Date: 6.JUN.2022 15:33:35

Lowest Band Edge / Full RB



Date: 6.JUN.2022 15:17:18

Highest Band Edge / Full RB

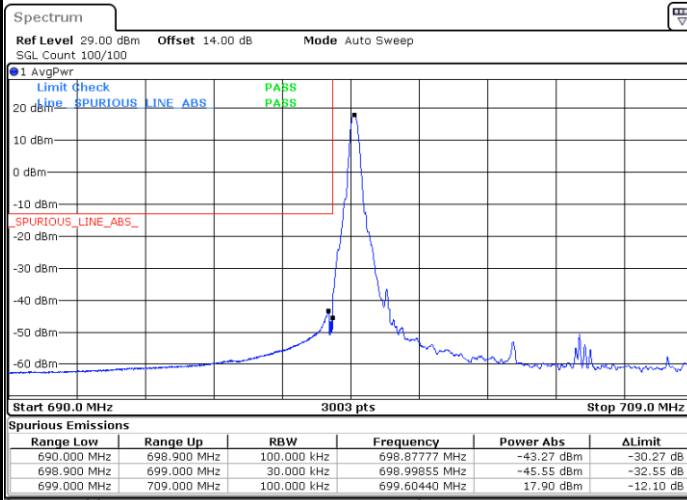


Date: 6.JUN.2022 15:32:13



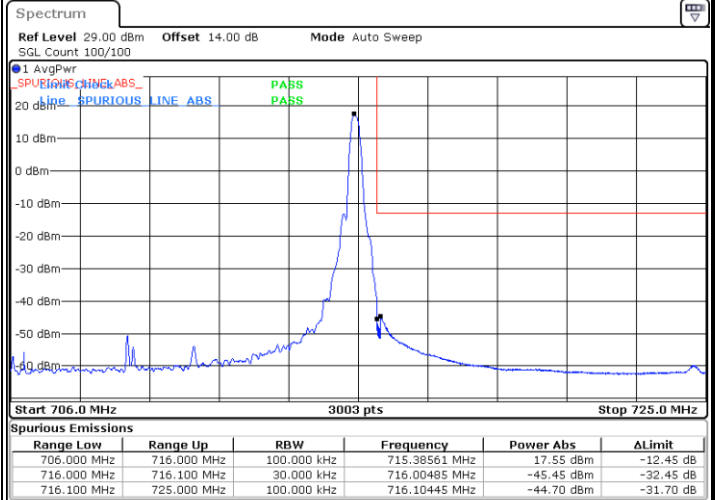
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



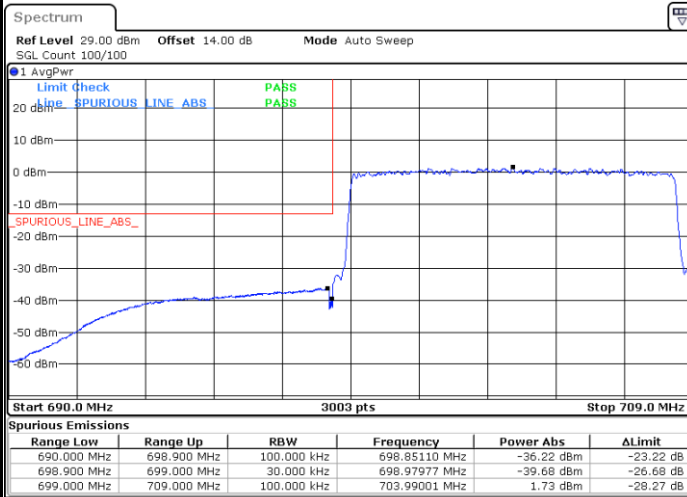
Date: 6.JUN.2022 15:41:37

Highest Band Edge / 1 RB



Date: 6.JUN.2022 15:48:46

Lowest Band Edge / Full RB



Date: 6.JUN.2022 15:40:15

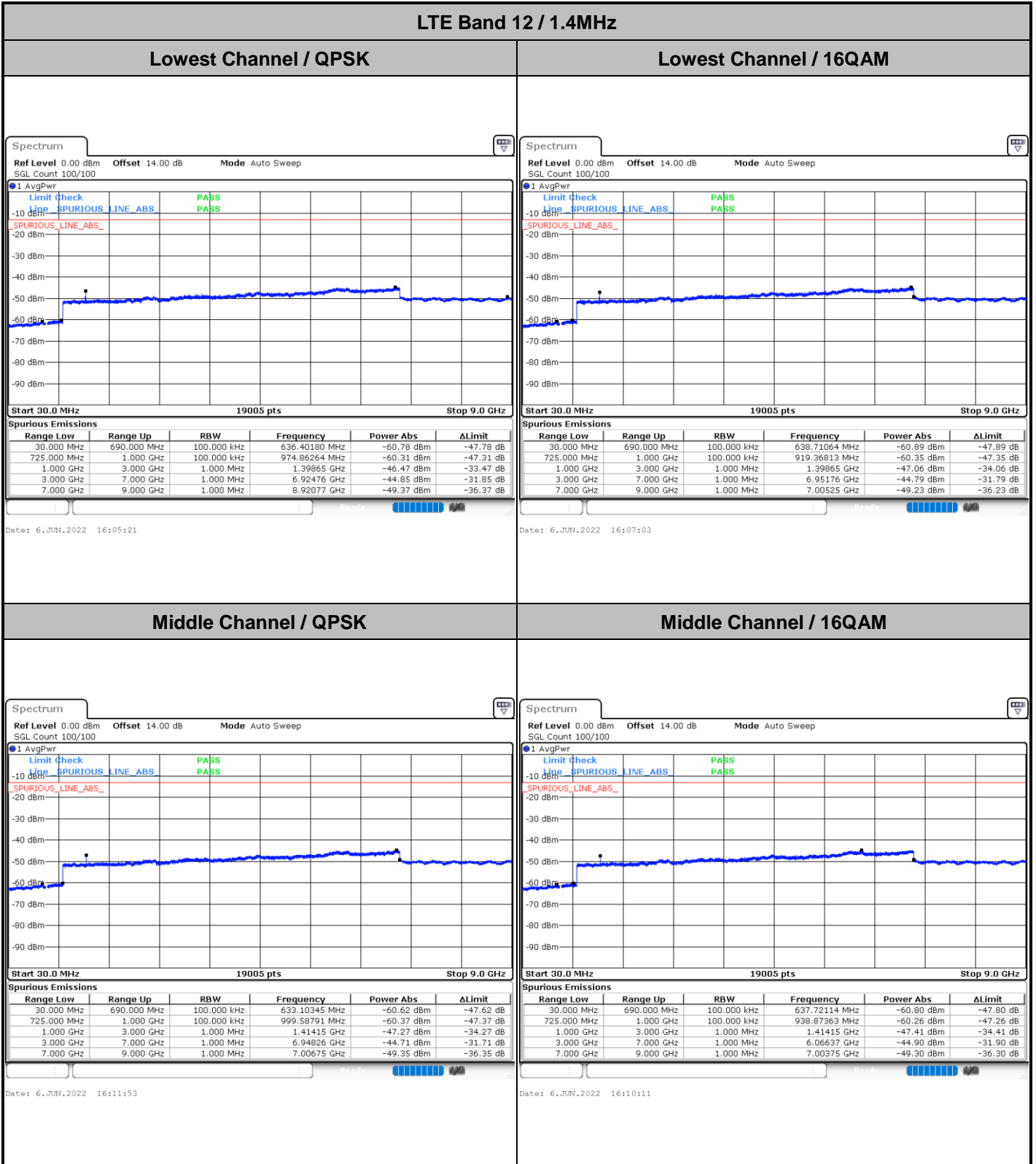
Highest Band Edge / Full RB



Date: 6.JUN.2022 15:47:24



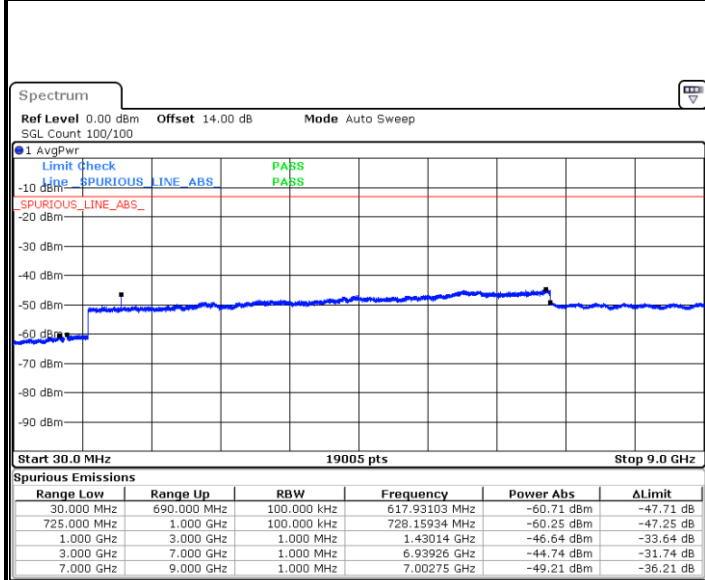
Conducted Spurious Emission





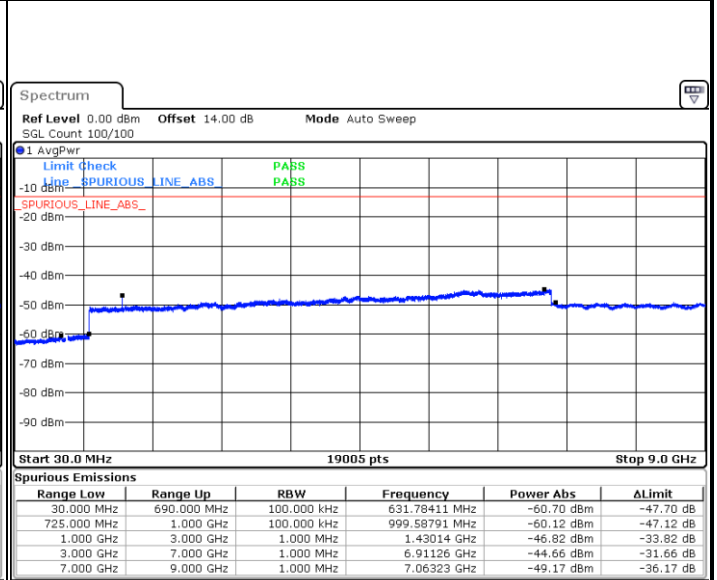
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 6 JUN.2022 16:20:24

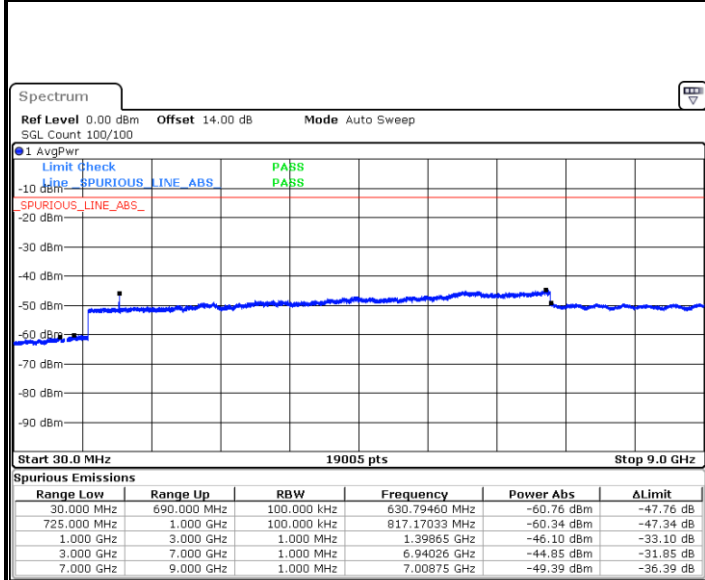
Highest Channel / 16QAM



Date: 6 JUN.2022 16:22:07

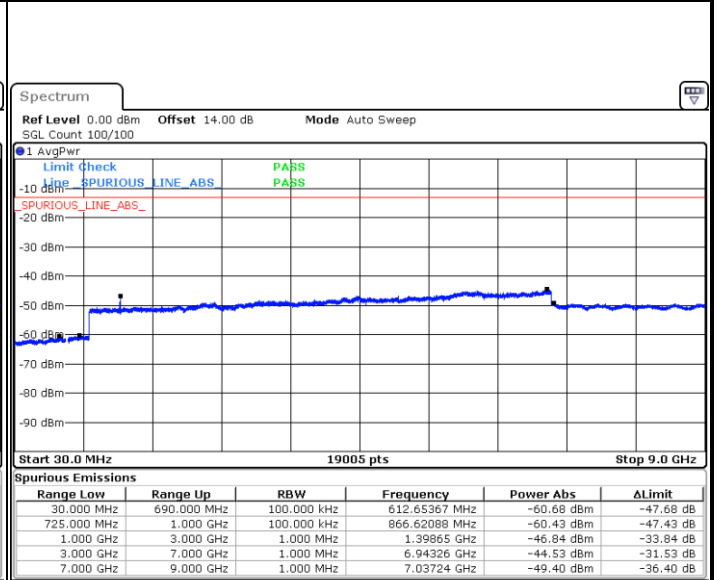
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 6 JUN.2022 14:07:03

Lowest Channel / 16QAM

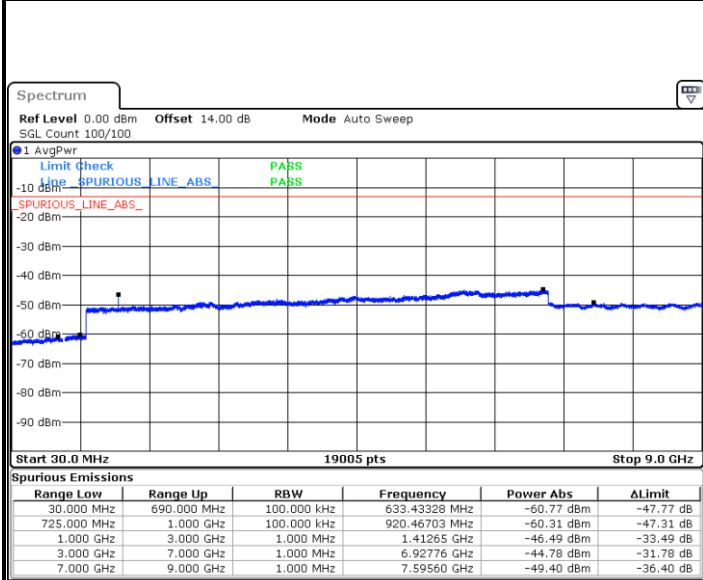


Date: 6 JUN.2022 14:08:45



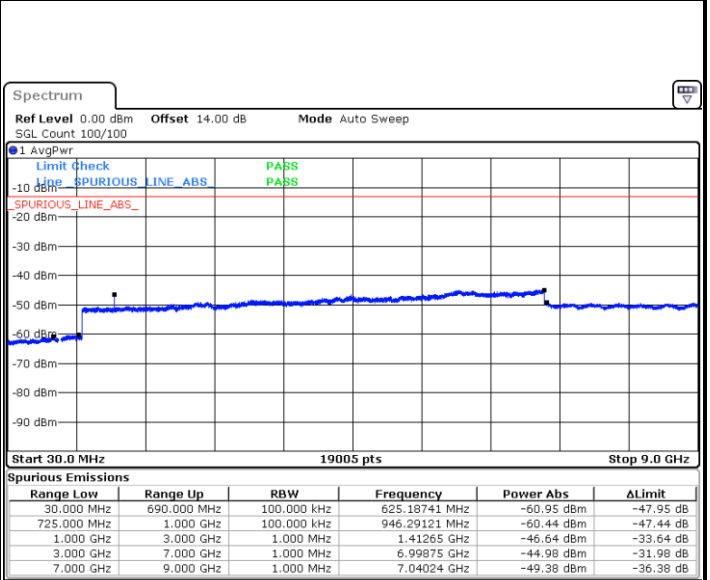
LTE Band 12 / 3MHz

Middle Channel / QPSK



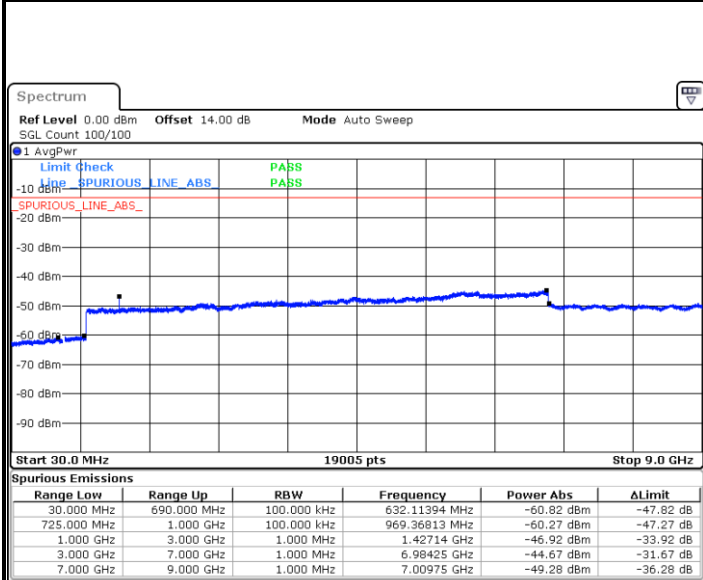
Date: 6 JUN.2022 14:13:36

Middle Channel / 16QAM



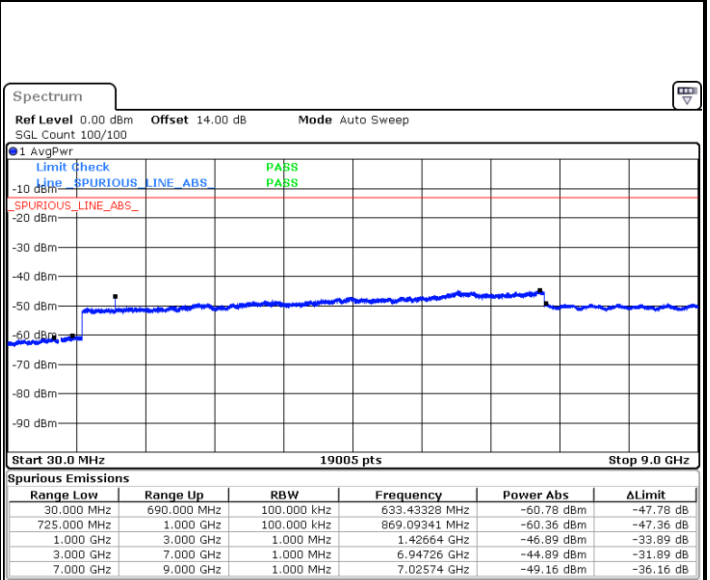
Date: 6 JUN.2022 14:11:55

Highest Channel / QPSK



Date: 6 JUN.2022 14:22:09

Highest Channel / 16QAM

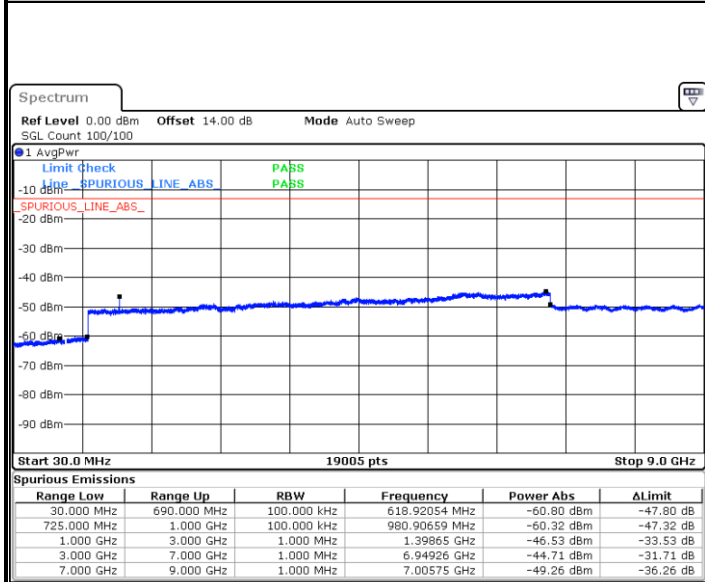


Date: 6 JUN.2022 14:23:51



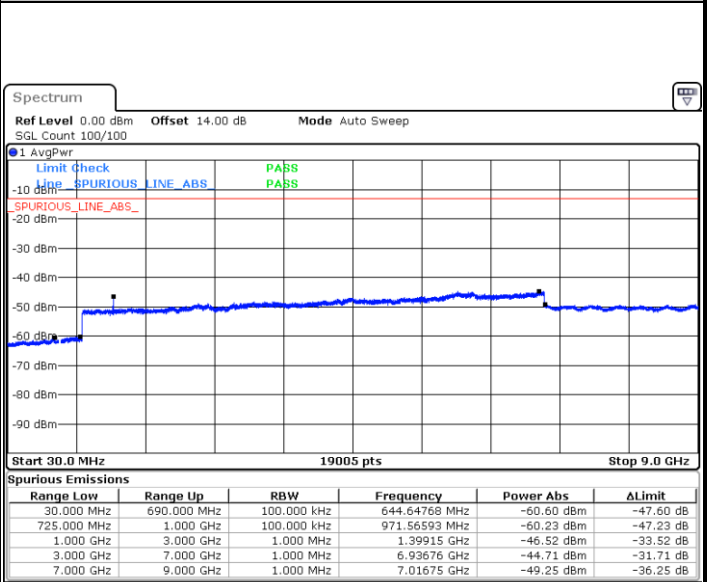
LTE Band 12 / 5MHz

Lowest Channel / QPSK



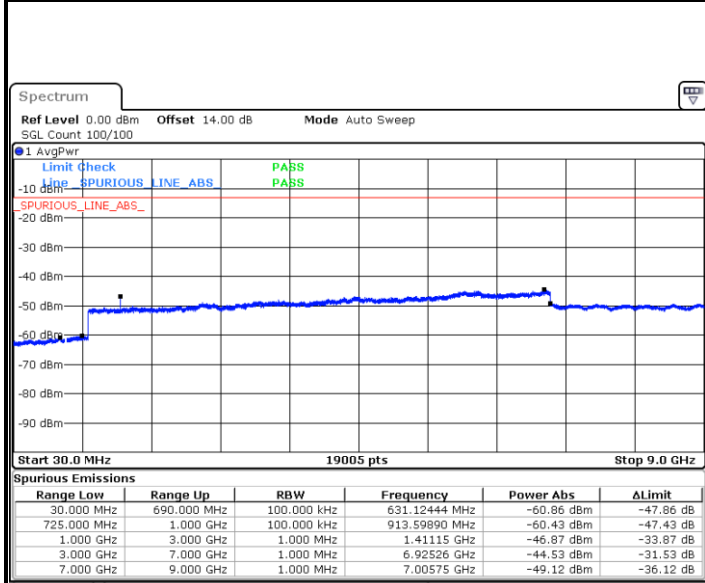
Date: 6 JUN.2022 14:56:27

Lowest Channel / 16QAM



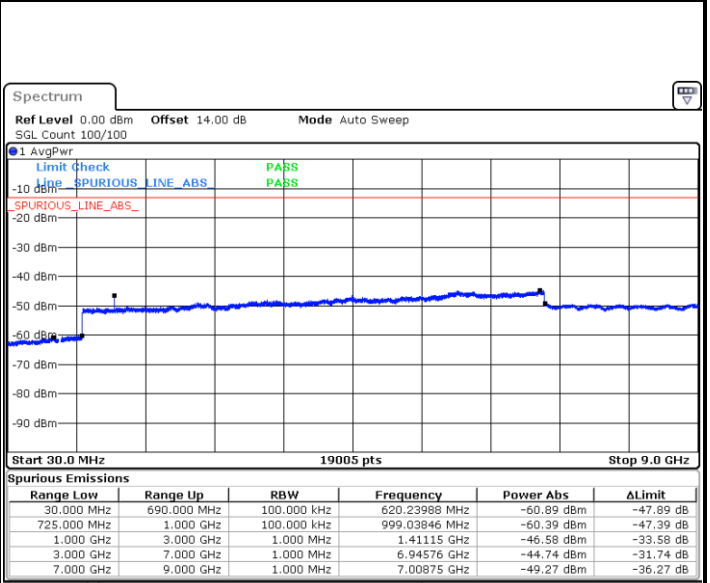
Date: 6 JUN.2022 14:58:10

Middle Channel / QPSK



Date: 6 JUN.2022 15:03:00

Middle Channel / 16QAM

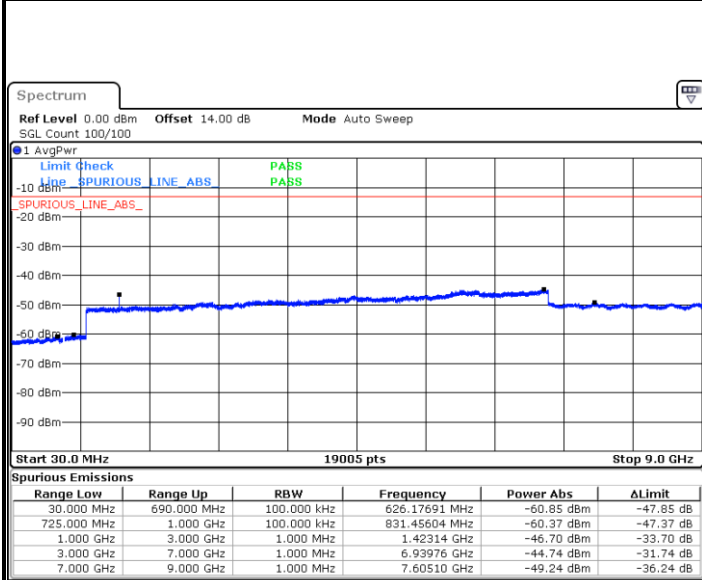


Date: 6 JUN.2022 15:01:18



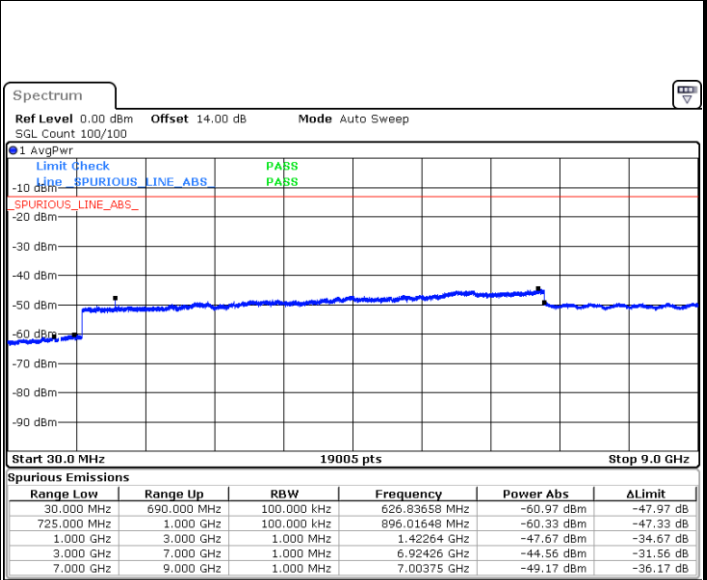
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 6 JUN.2022 15:13:13

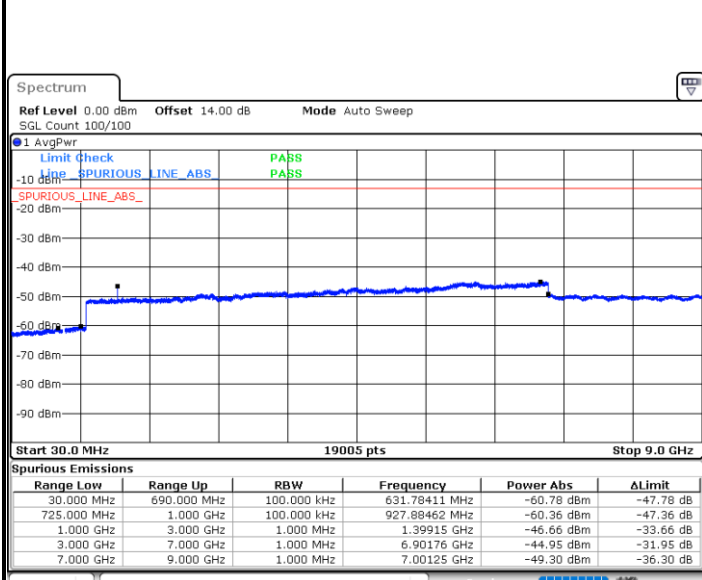
Highest Channel / 16QAM



Date: 6 JUN.2022 15:11:30

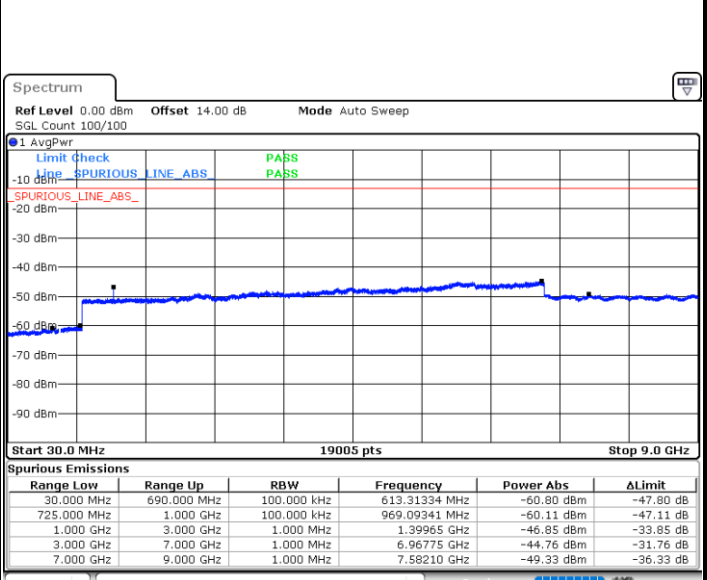
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 6 JUN.2022 15:21:36

Lowest Channel / 16QAM

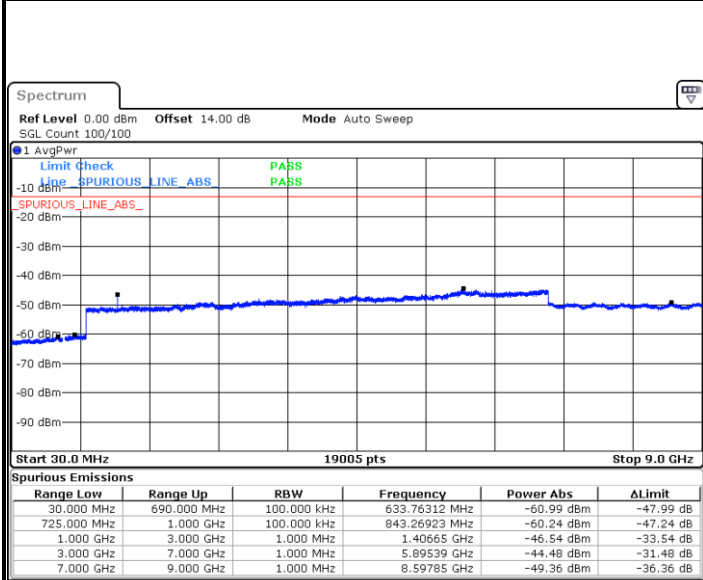


Date: 6 JUN.2022 15:23:19



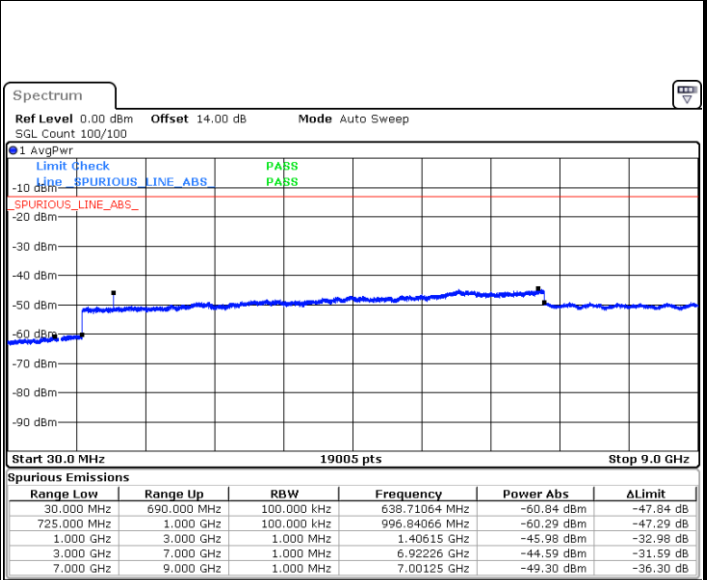
LTE Band 12 / 10MHz

Middle Channel / QPSK



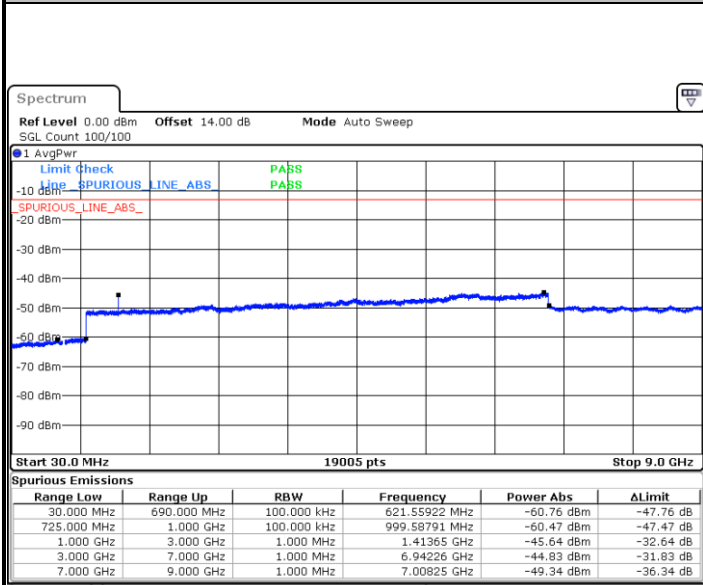
Date: 6 JUN.2022 15:28:10

Middle Channel / 16QAM



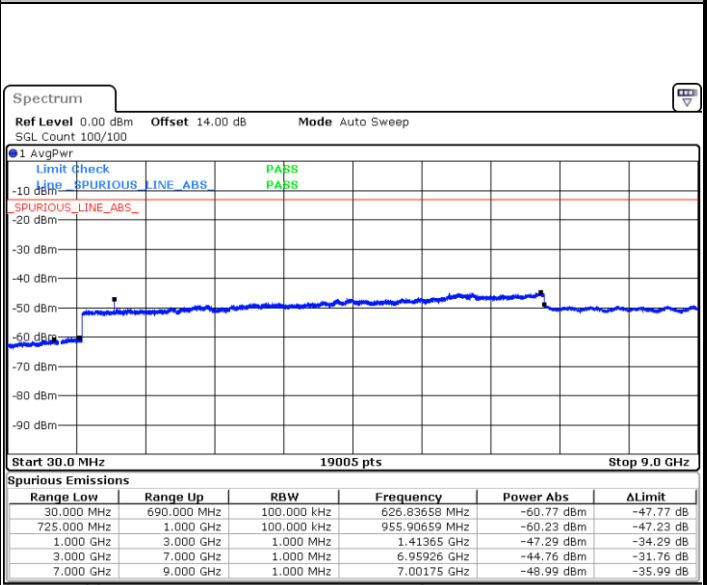
Date: 6 JUN.2022 15:26:28

Highest Channel / QPSK



Date: 6 JUN.2022 15:36:40

Highest Channel / 16QAM

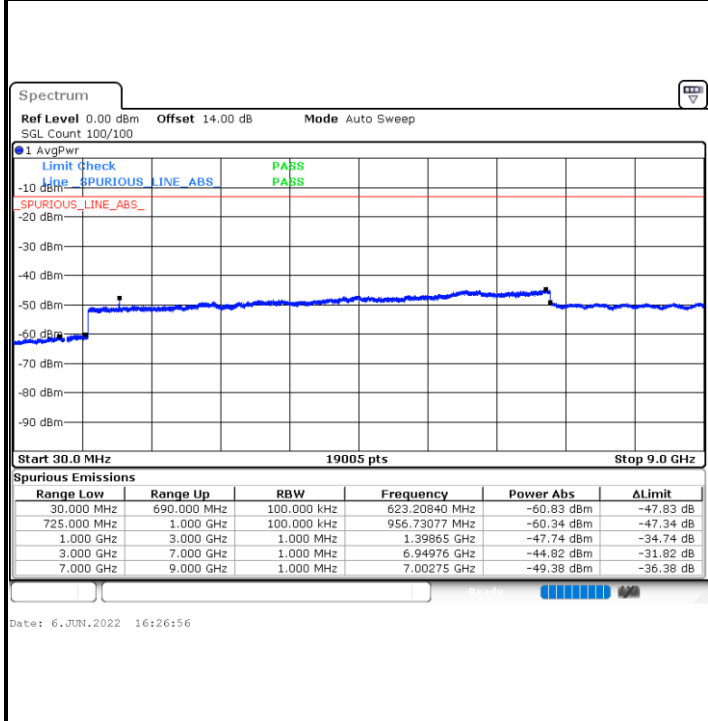


Date: 6 JUN.2022 15:38:23

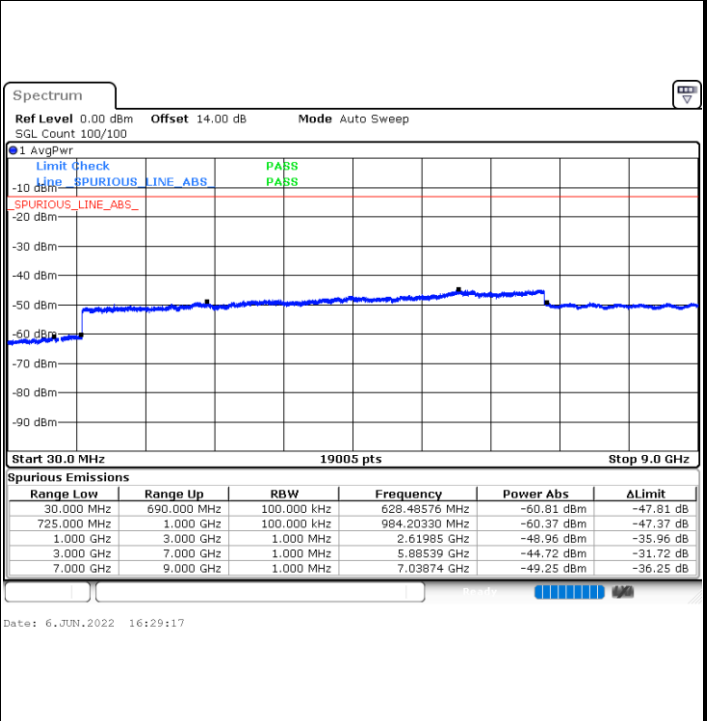


LTE Band 12 / 1.4MHz

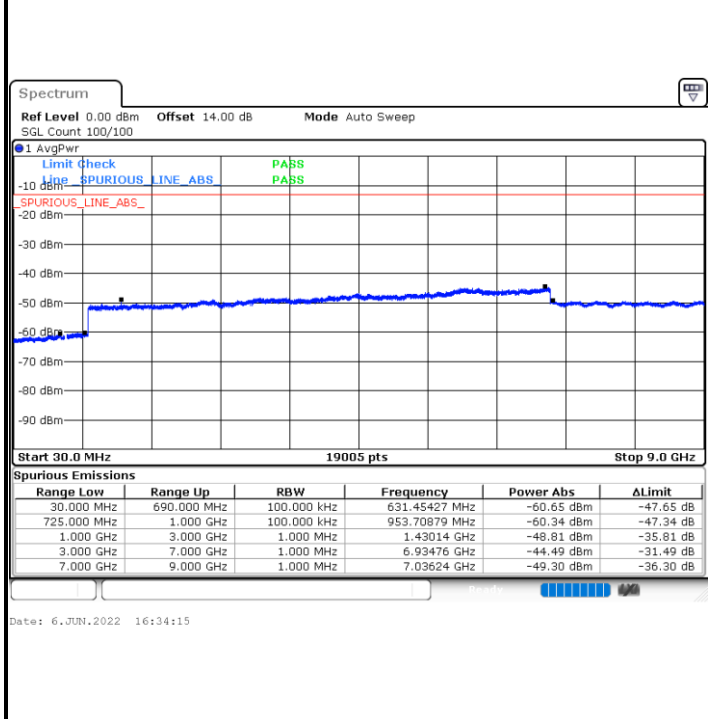
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



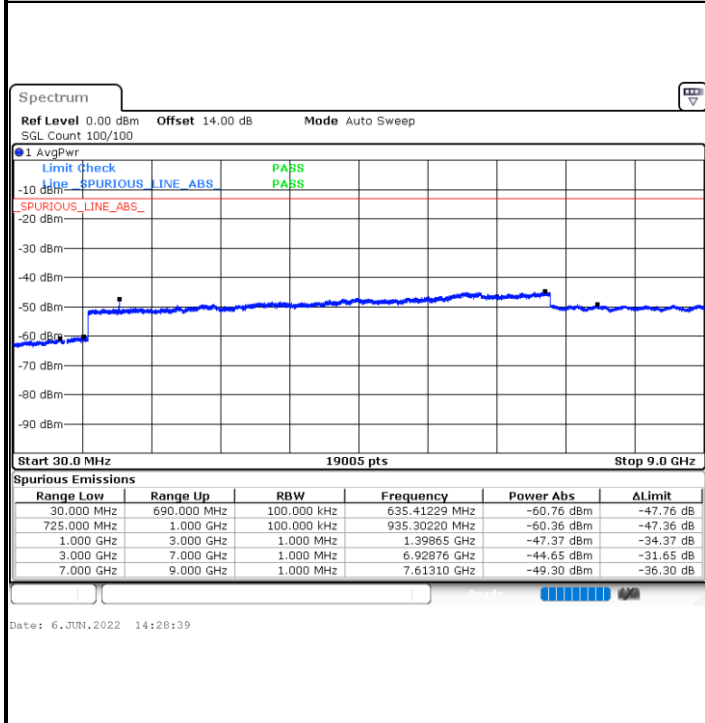
N/A

N/A

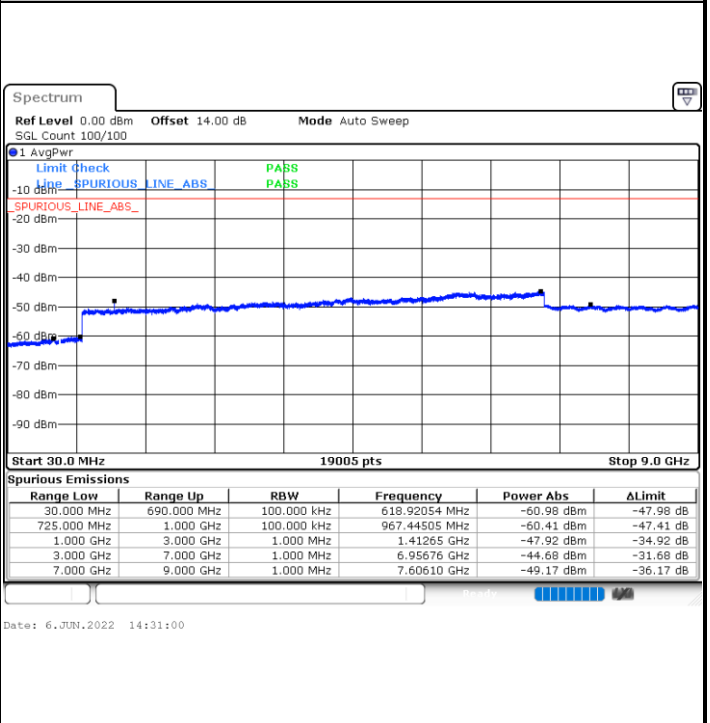


LTE Band 12 / 3MHz

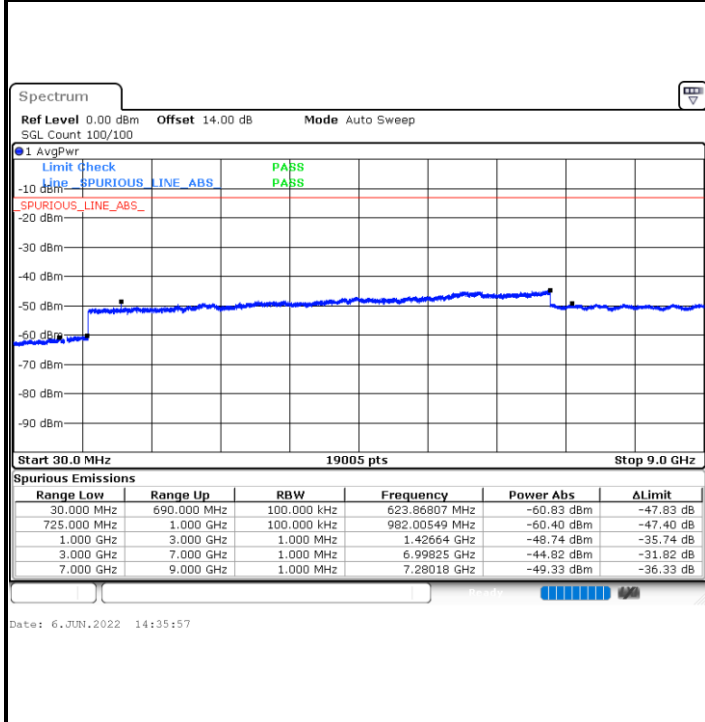
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



N/A

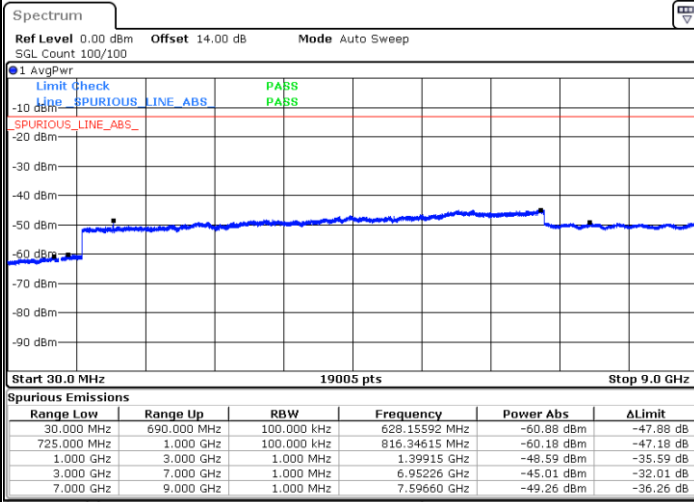
N/A



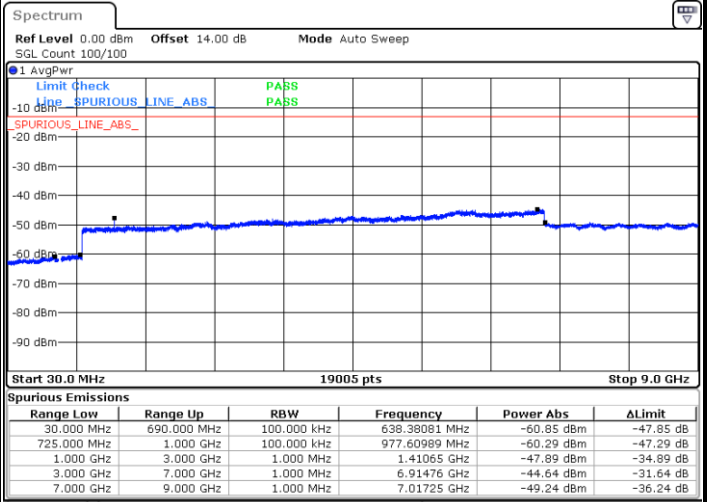
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



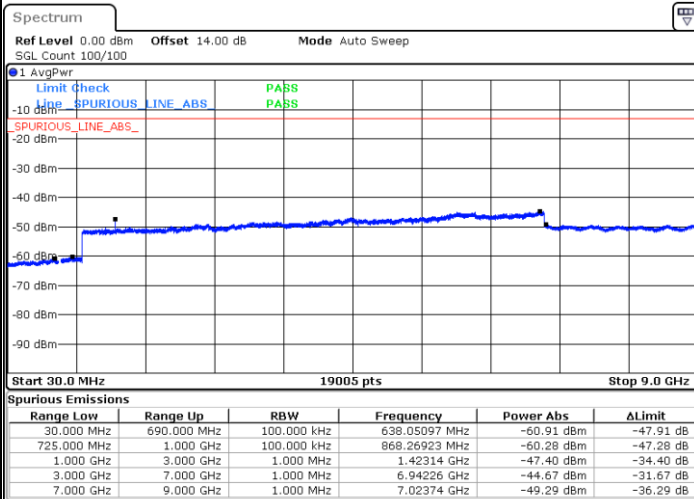
Date: 6 JUN.2022 14:40:47



Date: 6 JUN.2022 14:43:09

Highest Channel / 64QAM

N/A



Date: 6 JUN.2022 14:48:06

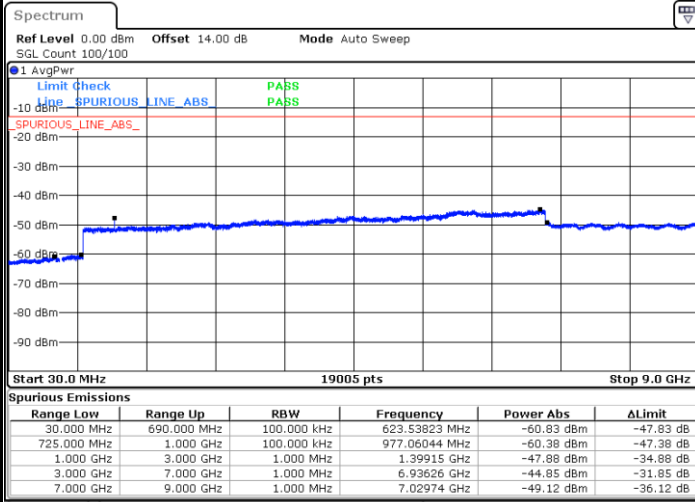
N/A



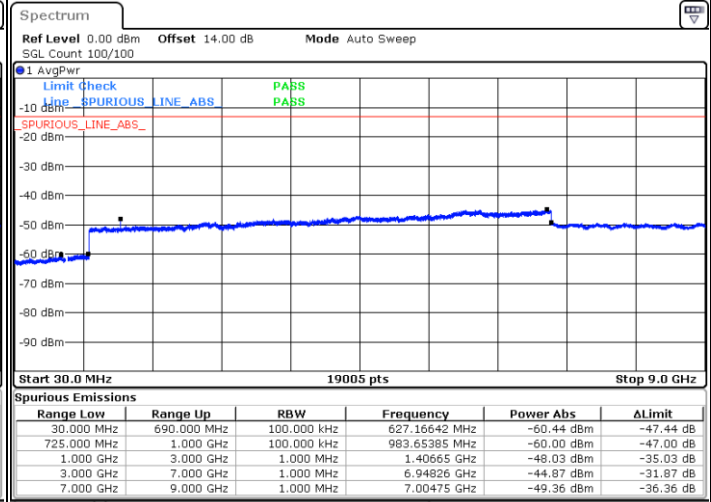
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



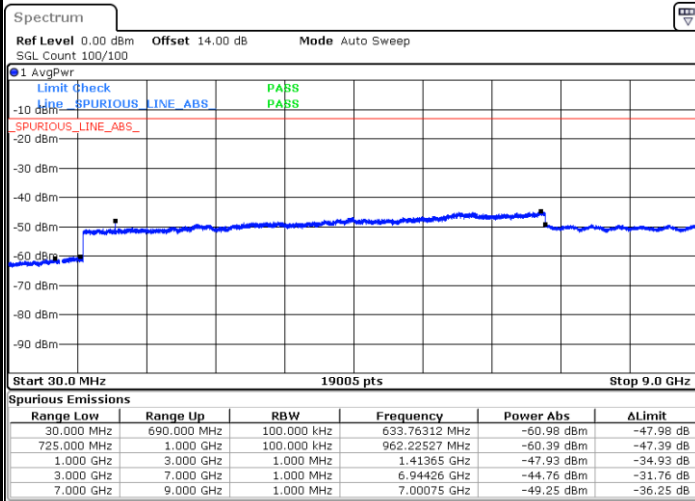
Date: 6 JUN.2022 15:43:11



Date: 6 JUN.2022 15:45:32

Highest Channel / 64QAM

N/A



Date: 6 JUN.2022 15:50:29

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	0.0021	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 =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

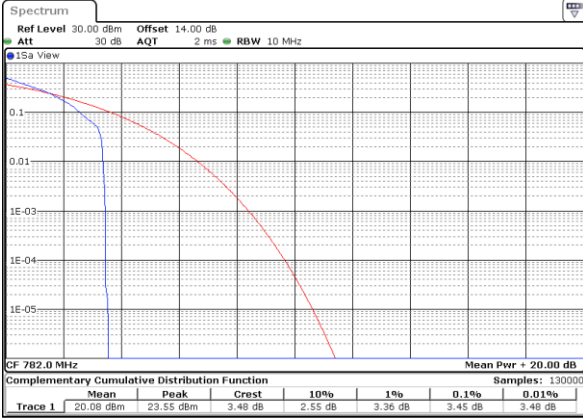
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.45	4.58	4.61	5.57	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.14	6.14	-	-	
Highest CH	-	-	-	-	

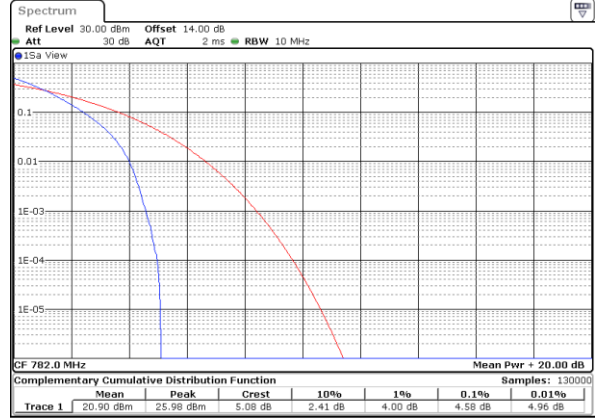


LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Middle Channel / Full RB

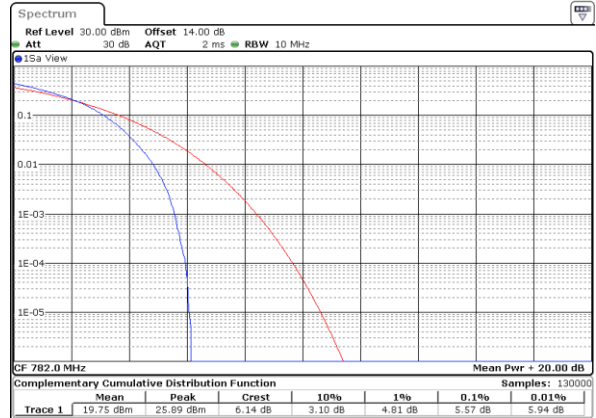


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Middle Channel / Full RB

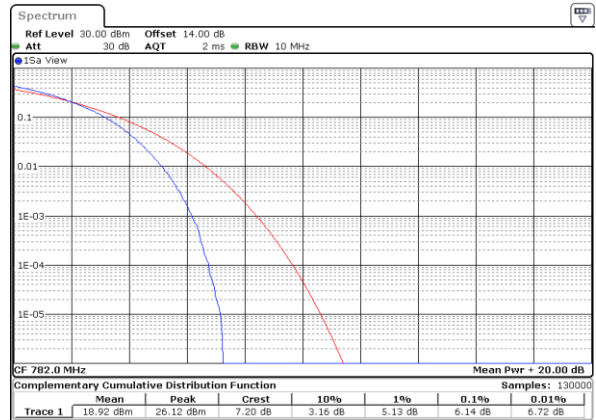


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB



Date: 2023-06-29 19:34:42

Date: 2023-06-29 19:35:07



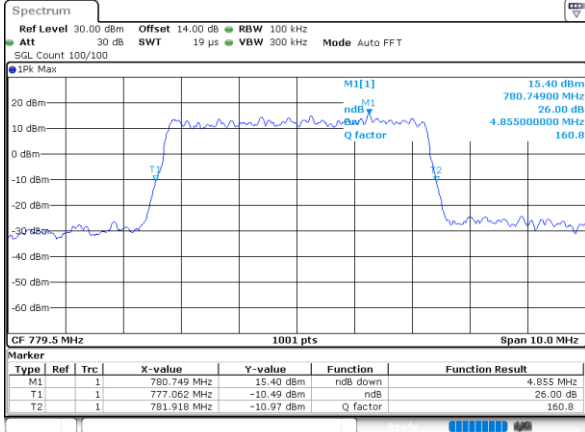
26dB Bandwidth

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	-	-	-	-	4.86	4.88	-	-	-	-	-	-
Middle CH	-	-	-	-	4.98	4.86	9.73	9.79	-	-	-	-
Highest CH	-	-	-	-	4.87	4.85	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.91	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.87	-	9.79	-	-	-	-	-
Highest CH	-	-	-	-	4.90	-	-	-	-	-	-	-



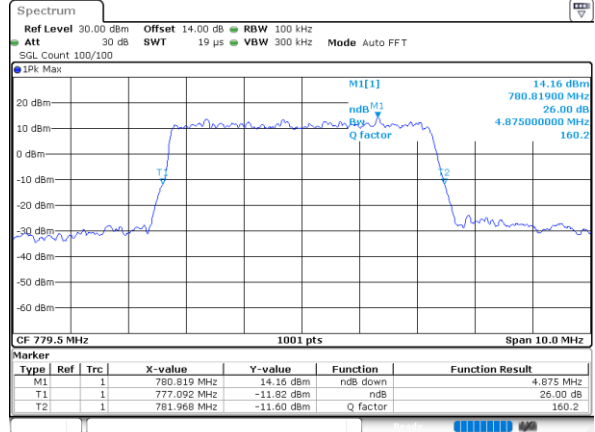
LTE Band 13

Lowest Channel / 5MHz / QPSK



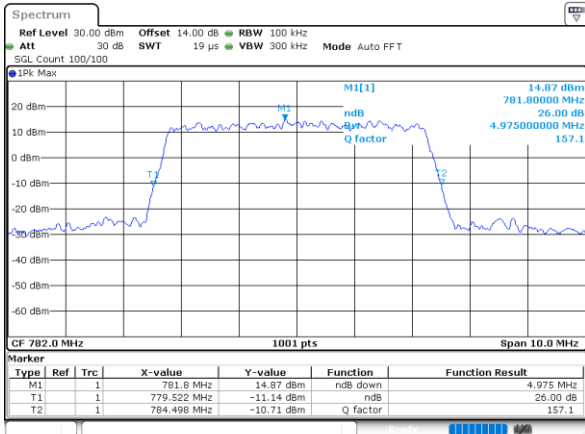
Date: 2 JUN 2022 18:28:57

Lowest Channel / 5MHz / 16QAM



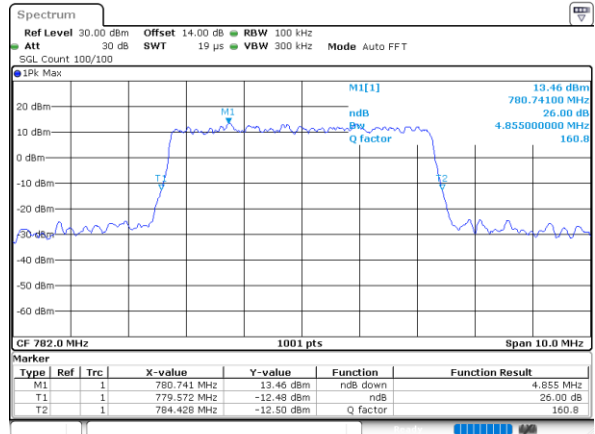
Date: 2 JUN 2022 18:28:33

Middle Channel / 5MHz / QPSK



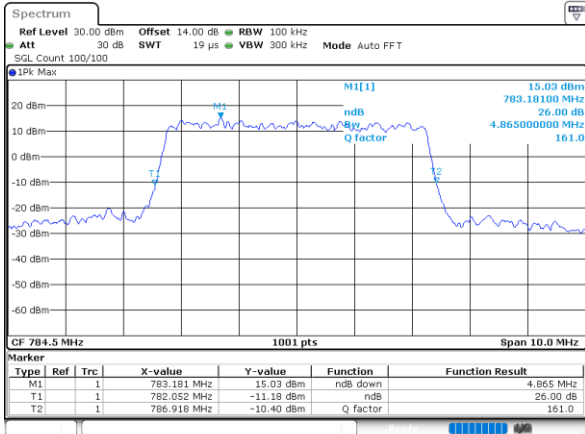
Date: 2 JUN 2022 18:43:20

Middle Channel / 5MHz / 16QAM



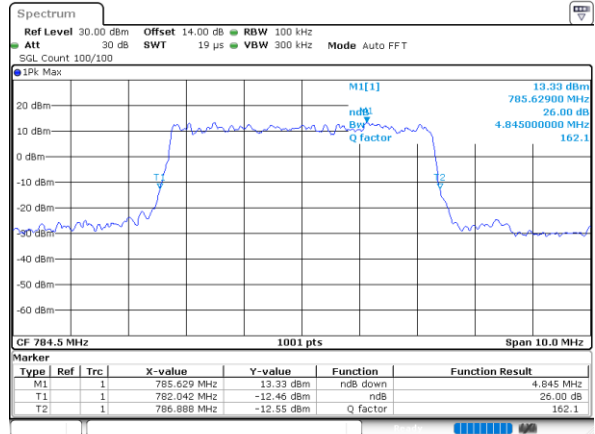
Date: 2 JUN 2022 18:43:44

Highest Channel / 5MHz / QPSK



Date: 2 JUN 2022 18:45:50

Highest Channel / 5MHz / 16QAM



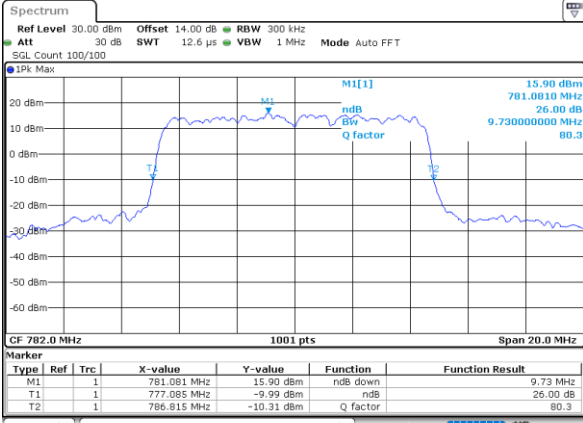
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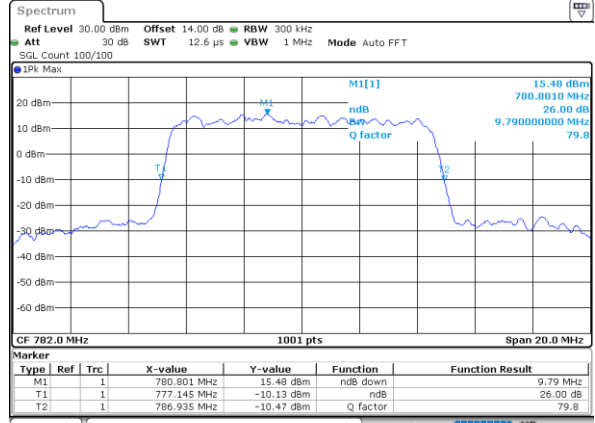
LTE Band 13

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM



Date: 2 JUN 2022 19:12:11



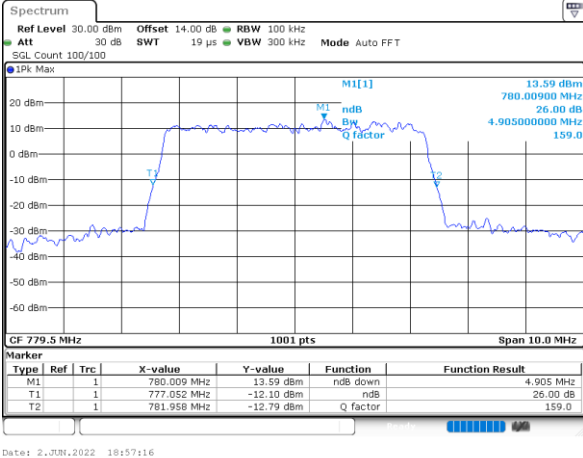
Date: 2 JUN 2022 19:11:47



LTE Band 13

Lowest Channel / 5MHz / 64QAM

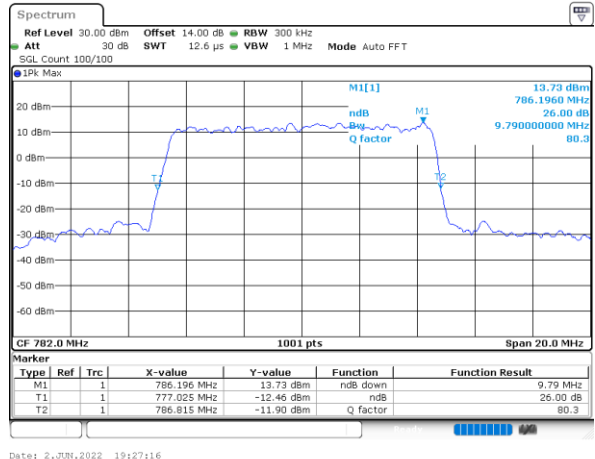
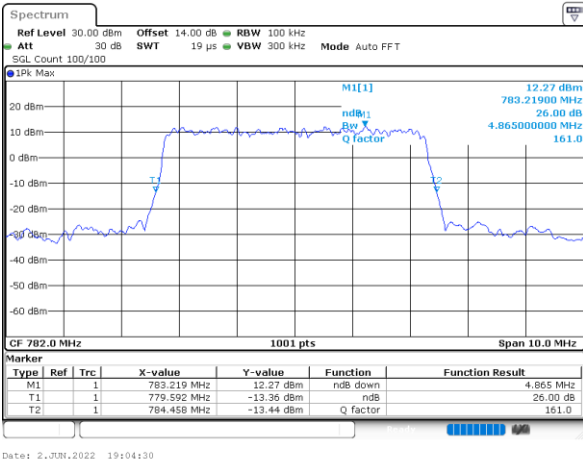
N/A



N/A

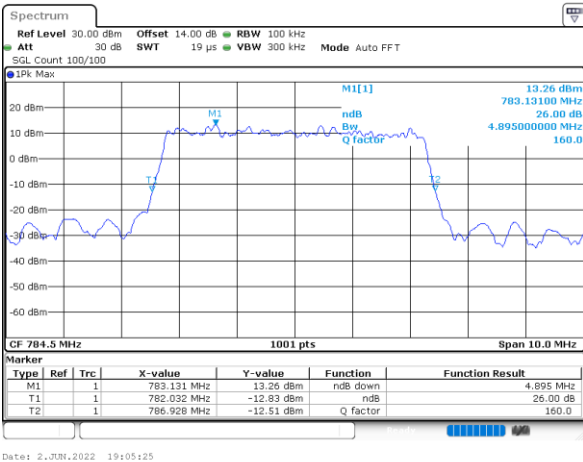
Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

N/A



N/A



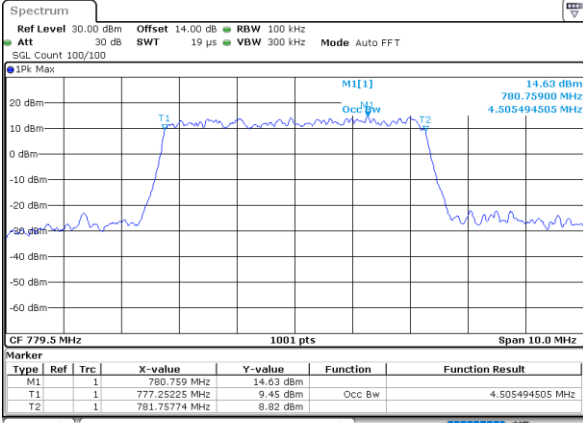
Occupied Bandwidth

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	4.52	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	4.49	9.03	9.01	-	-	-	-
Highest CH	-	-	-	-	4.47	4.50	-	-	-	-	-	-
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	-	-	-	-	4.49	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	-	-	-	-	-	-



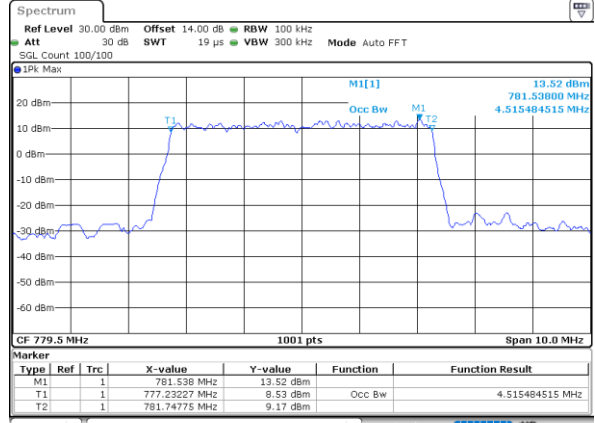
LTE Band 13

Lowest Channel / 5MHz / QPSK



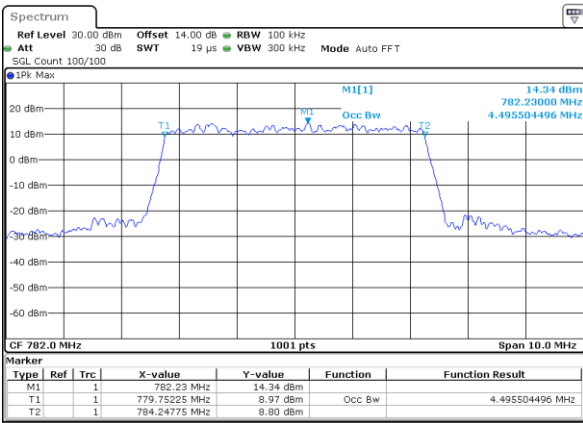
Date: 2 JUN 2022 18:27:53

Lowest Channel / 5MHz / 16QAM



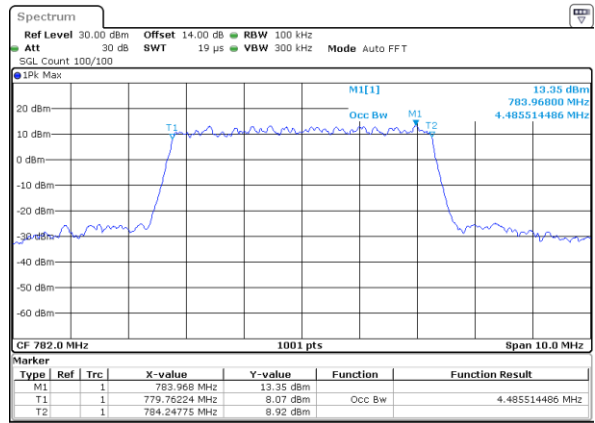
Date: 2 JUN 2022 18:28:17

Middle Channel / 5MHz / QPSK



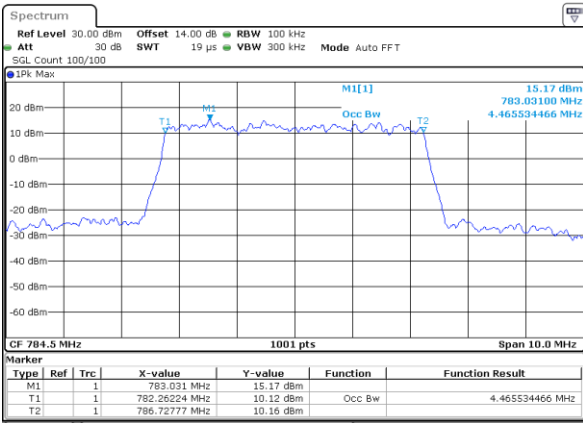
Date: 2 JUN 2022 18:44:23

Middle Channel / 5MHz / 16QAM



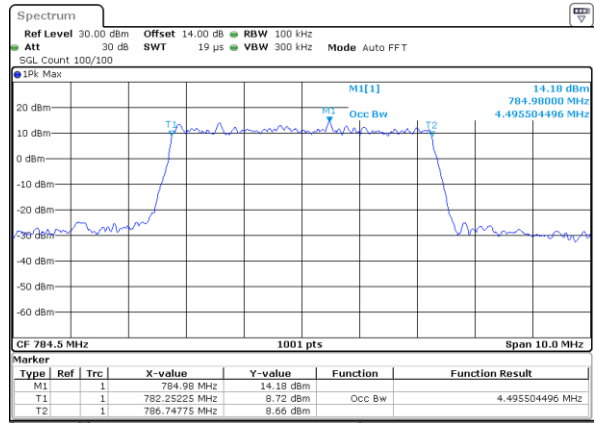
Date: 2 JUN 2022 18:43:59

Highest Channel / 5MHz / QPSK



Date: 2 JUN 2022 18:44:47

Highest Channel / 5MHz / 16QAM

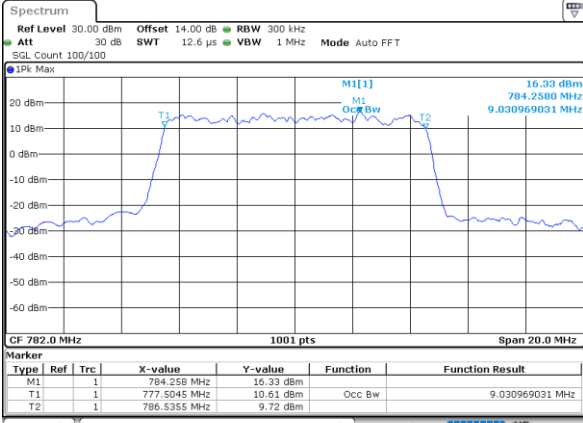


Date: 2 JUN 2022 18:45:11



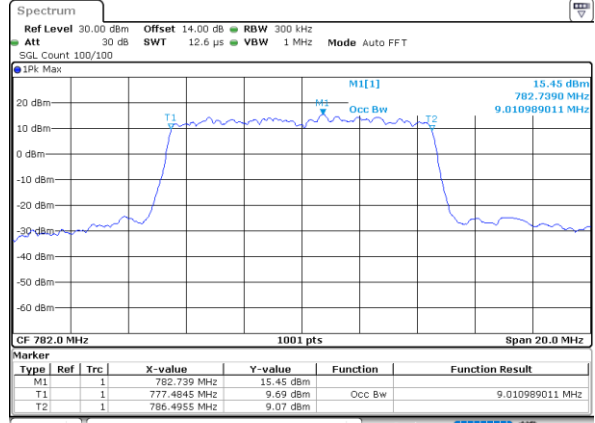
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2 JUN 2022 19:11:08

Middle Channel / 10MHz / 16QAM



Date: 2 JUN 2022 19:11:32