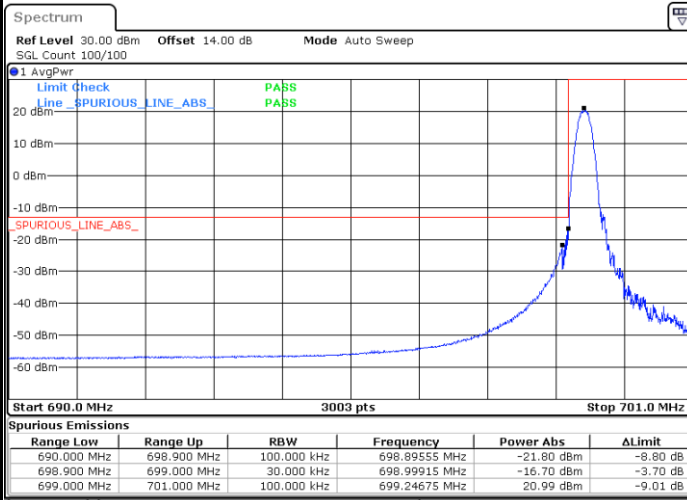




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



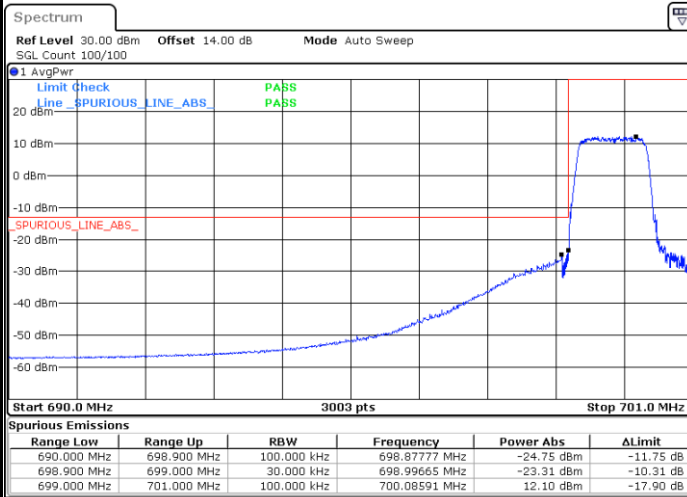
Date: 18.MAR.2023 02:32:27

Highest Band Edge / 1 RB



Date: 18.MAR.2023 02:47:39

Lowest Band Edge / Full RB



Date: 18.MAR.2023 02:30:39

Highest Band Edge / Full RB

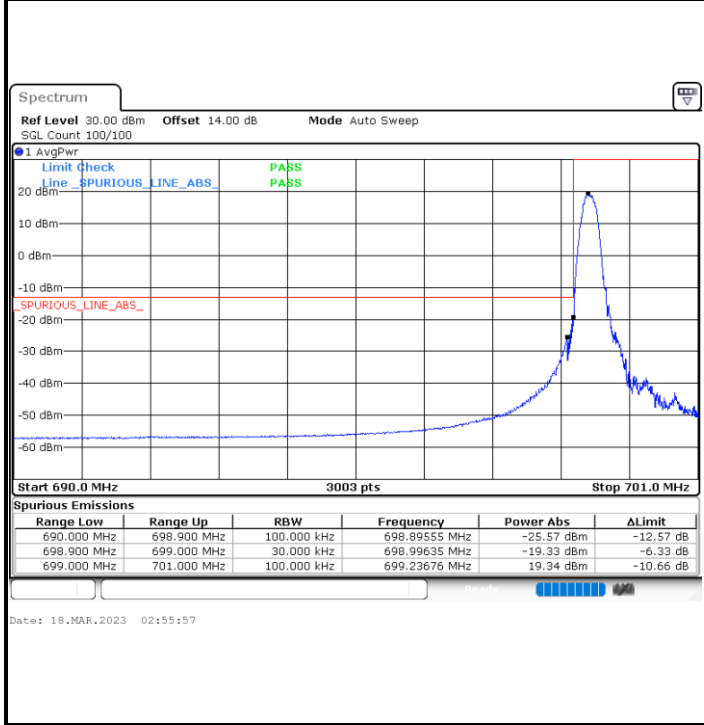


Date: 18.MAR.2023 02:45:51

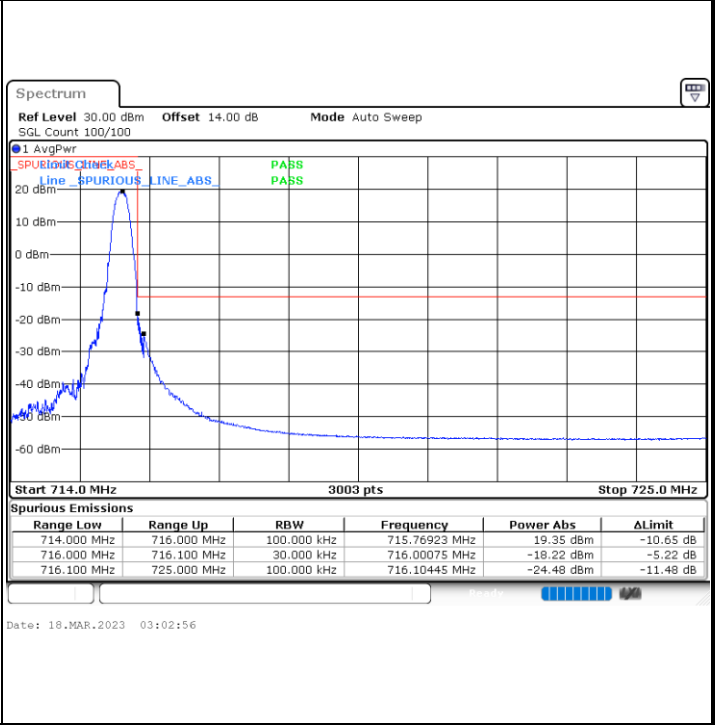


LTE Band 12 / 1.4MHz / 64QAM

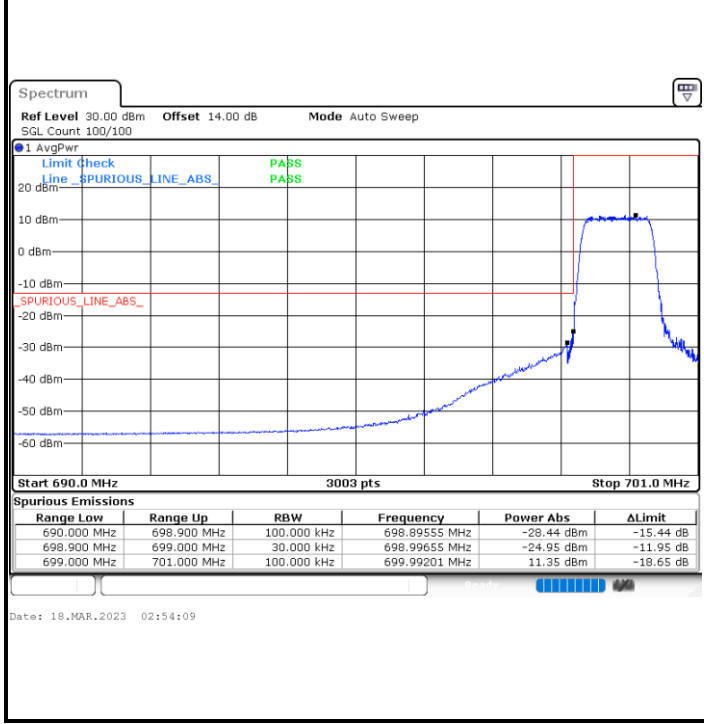
Lowest Band Edge / 1 RB



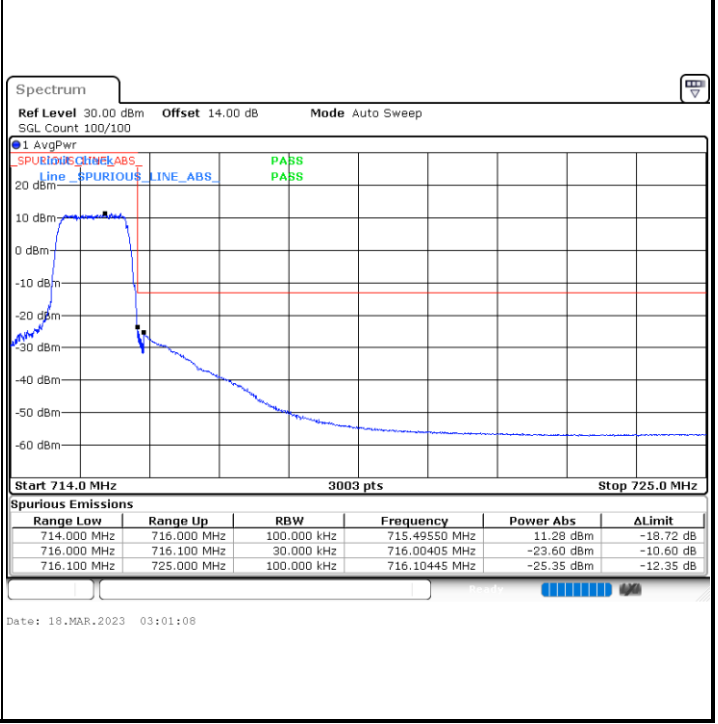
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



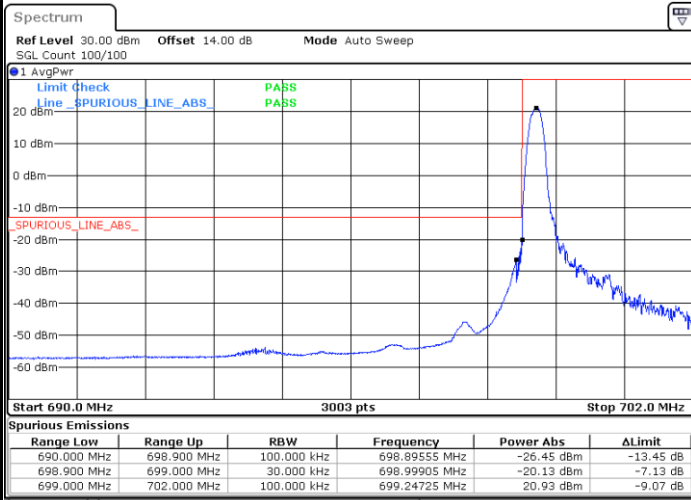
Highest Band Edge / Full RB





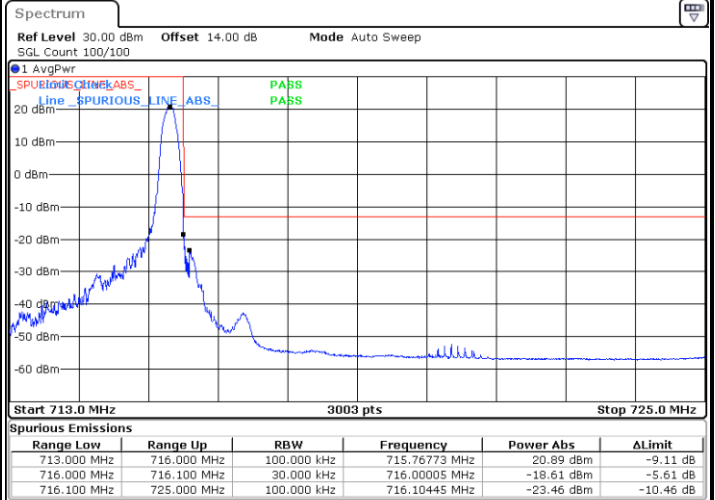
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



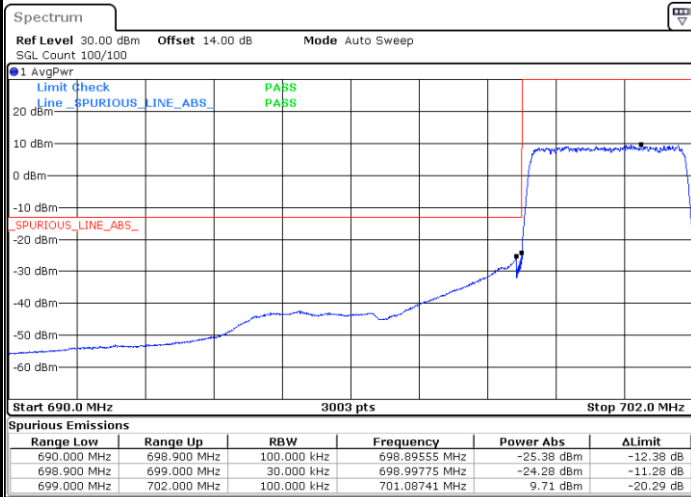
Date: 18.MAR.2023 03:12:38

Highest Band Edge / 1 RB



Date: 18.MAR.2023 03:27:14

Lowest Band Edge / Full RB



Date: 18.MAR.2023 03:07:15

Highest Band Edge / Full RB

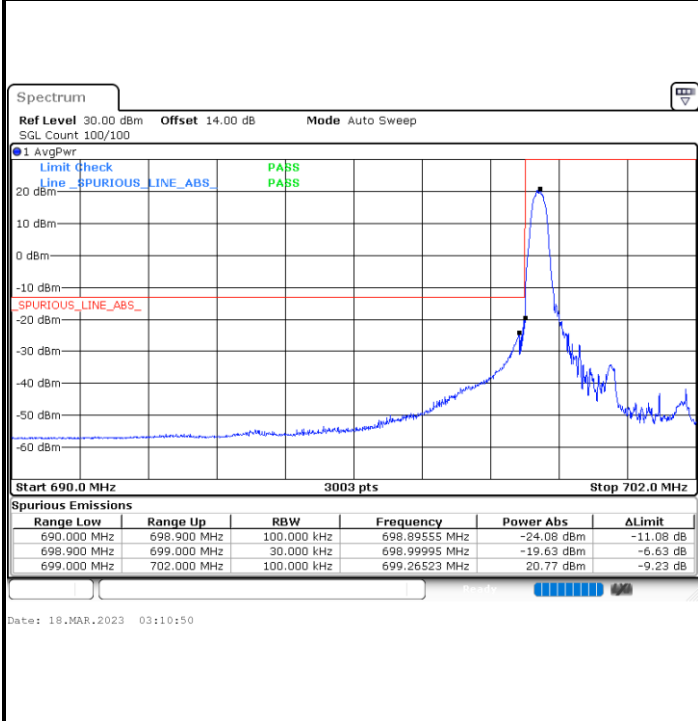


Date: 18.MAR.2023 03:21:50

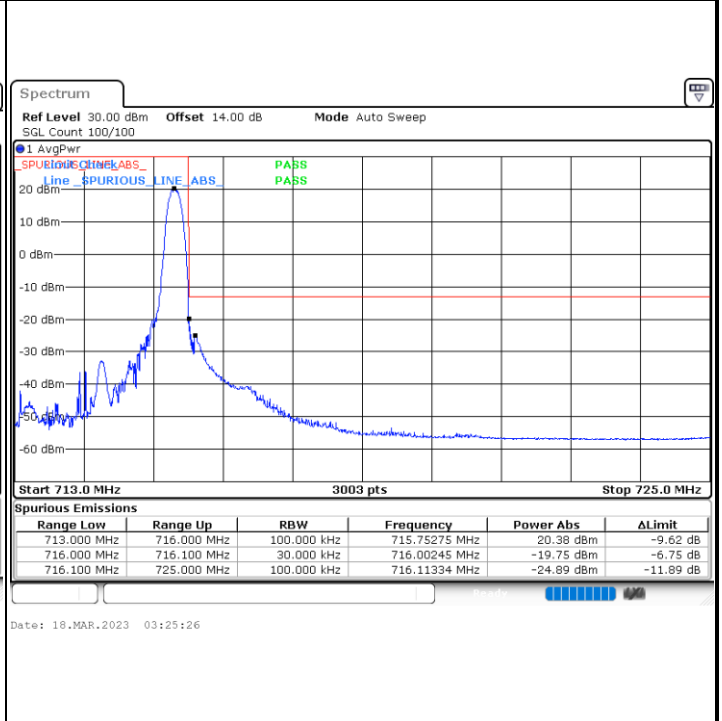


LTE Band 12 / 3MHz / 16QAM

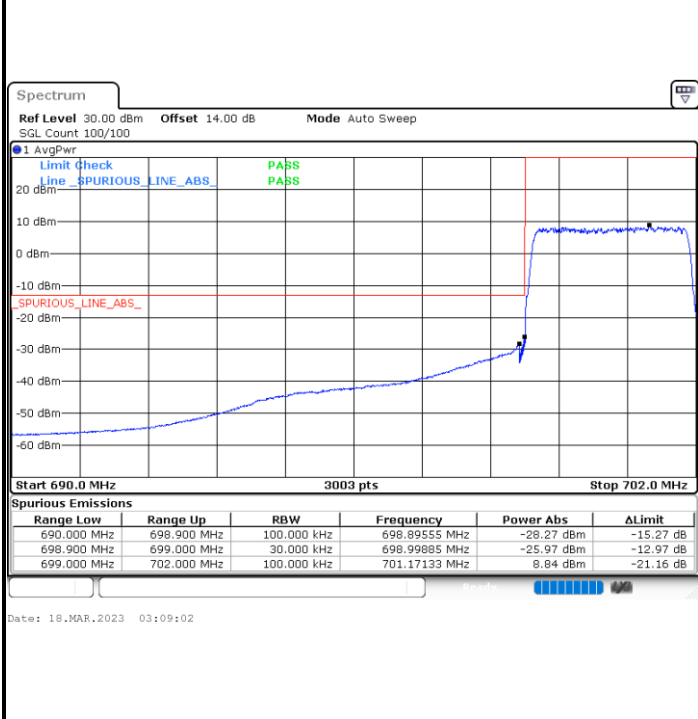
Lowest Band Edge / 1 RB



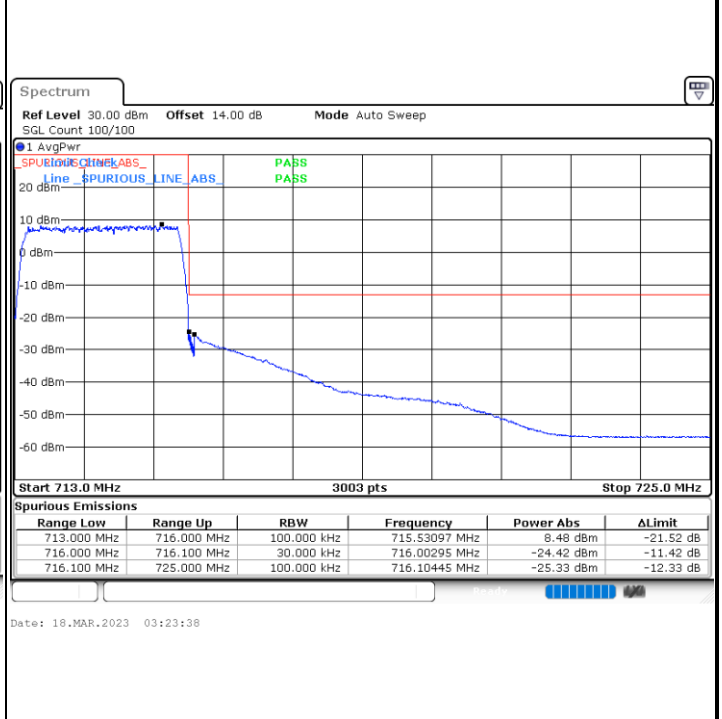
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



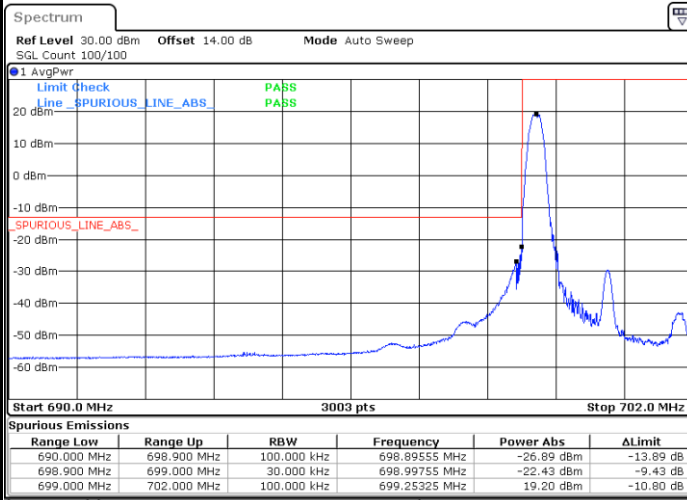
Highest Band Edge / Full RB





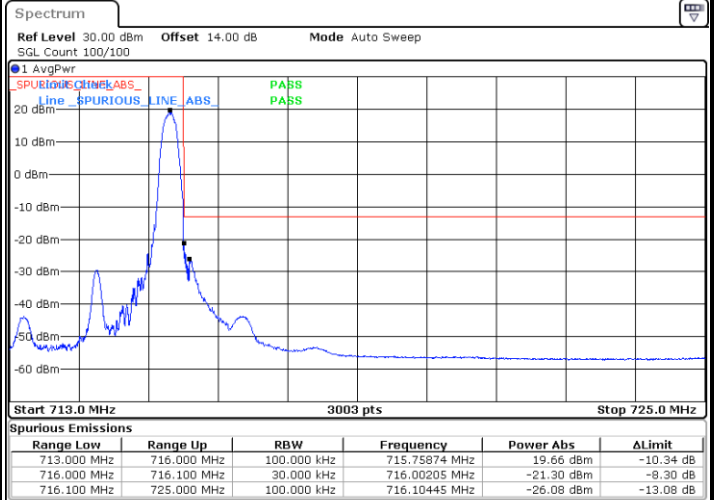
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



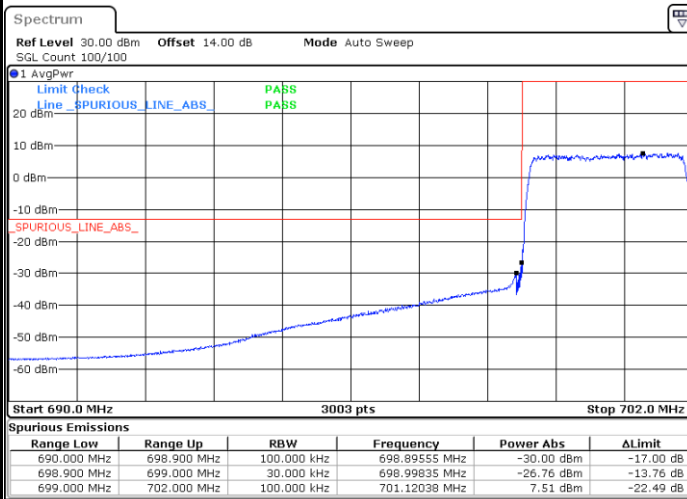
Date: 18.MAR.2023 03:34:23

Highest Band Edge / 1 RB



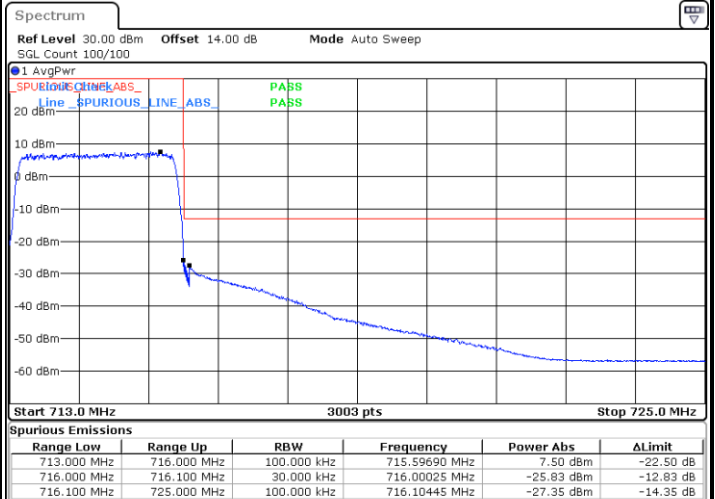
Date: 18.MAR.2023 03:41:27

Lowest Band Edge / Full RB



Date: 18.MAR.2023 03:32:35

Highest Band Edge / Full RB

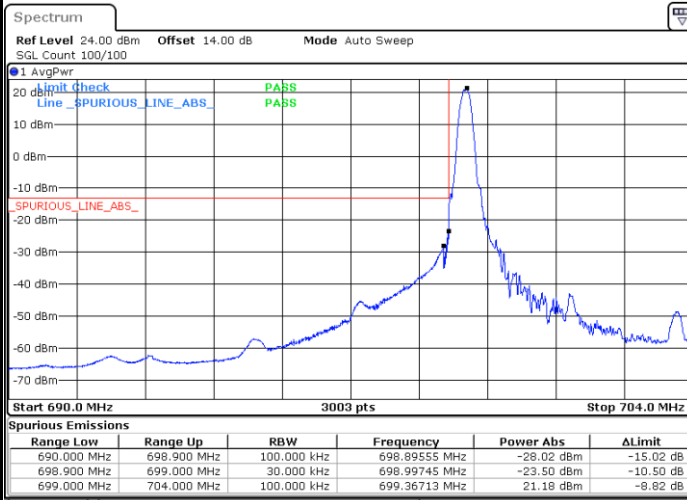


Date: 18.MAR.2023 03:39:39



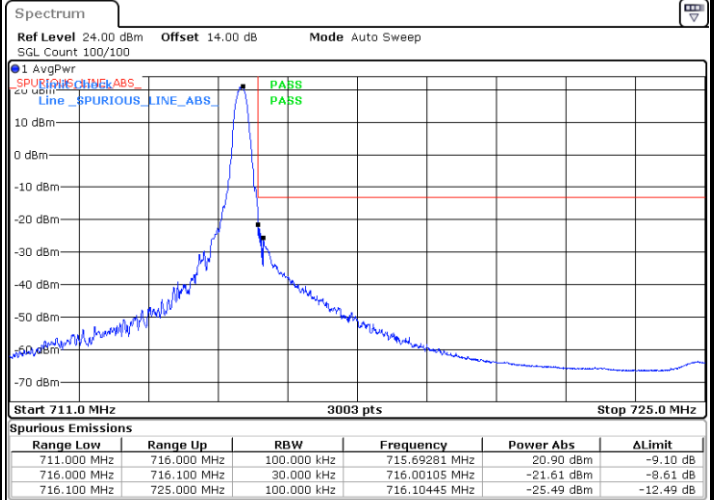
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



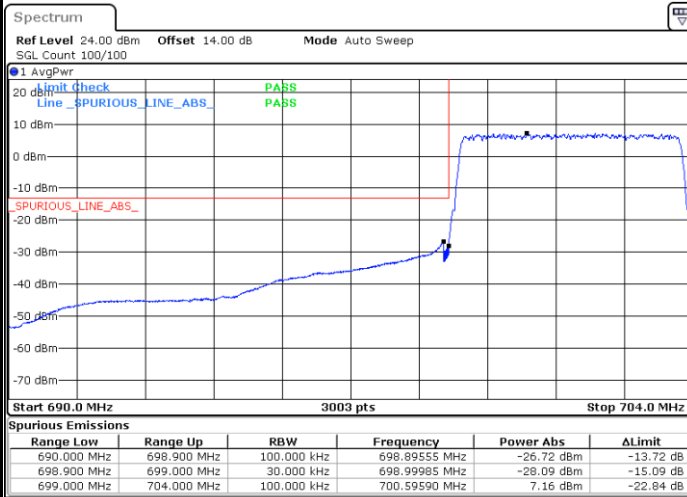
Date: 20.MAR.2023 11:21:24

Highest Band Edge / 1 RB



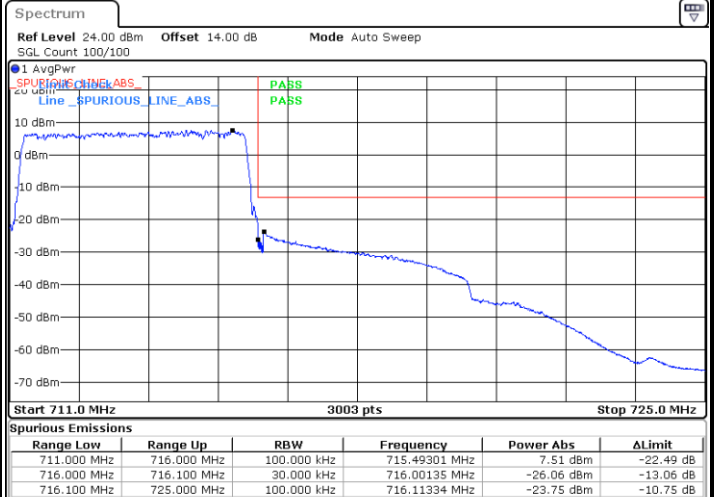
Date: 20.MAR.2023 11:29:50

Lowest Band Edge / Full RB



Date: 20.MAR.2023 11:18:57

Highest Band Edge / Full RB

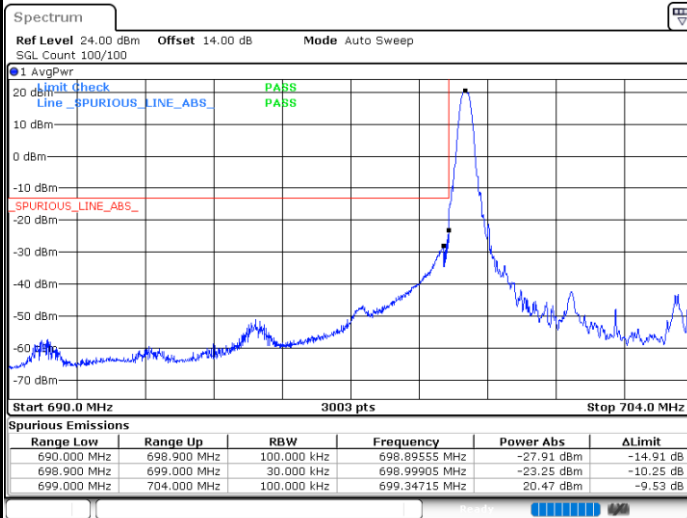


Date: 20.MAR.2023 11:28:14



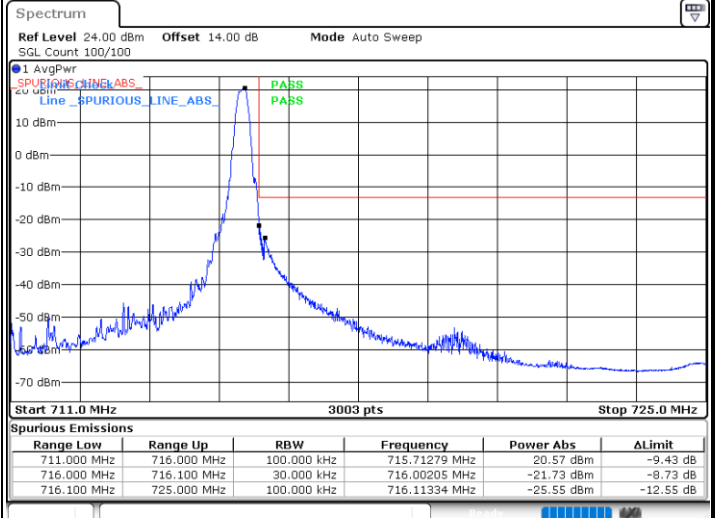
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



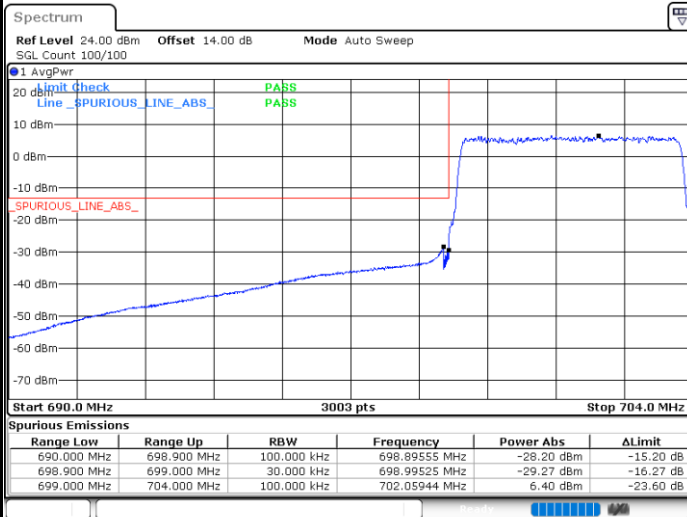
Date: 20.MAR.2023 11:20:36

Highest Band Edge / 1 RB



Date: 20.MAR.2023 11:30:39

Lowest Band Edge / Full RB



Date: 20.MAR.2023 11:19:44

Highest Band Edge / Full RB

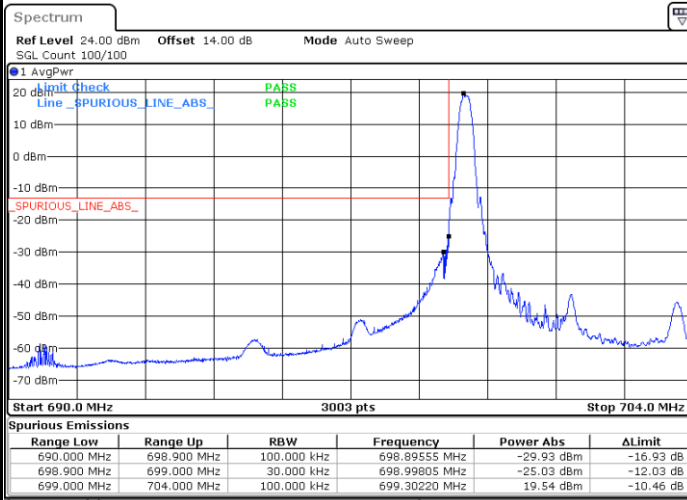


Date: 20.MAR.2023 11:20:02



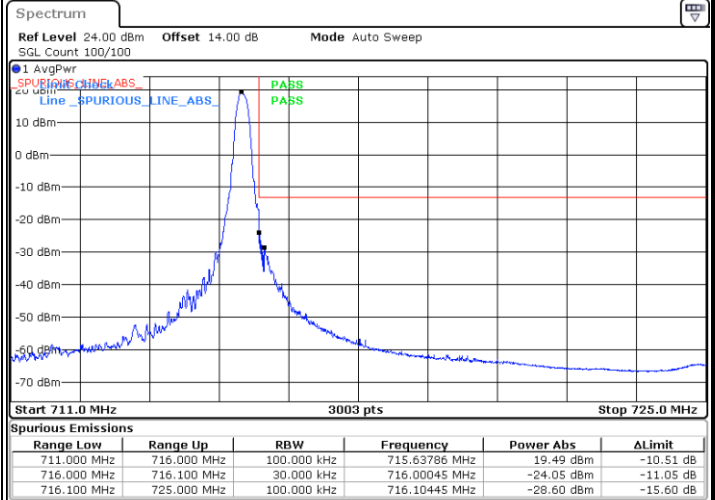
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



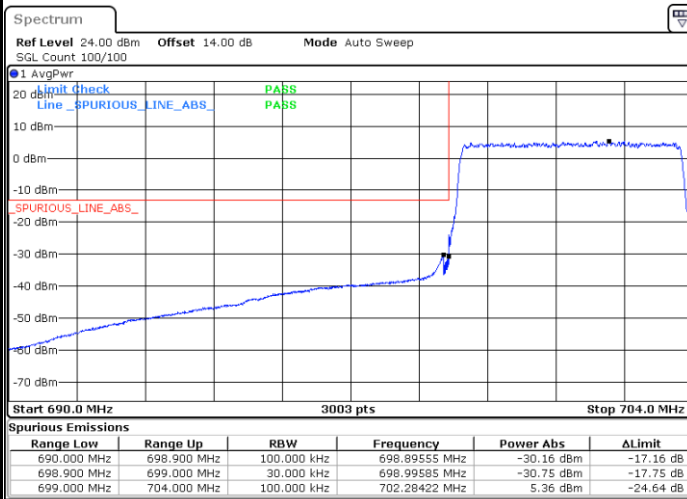
Date: 20.MAR.2023 11:08:43

Highest Band Edge / 1 RB



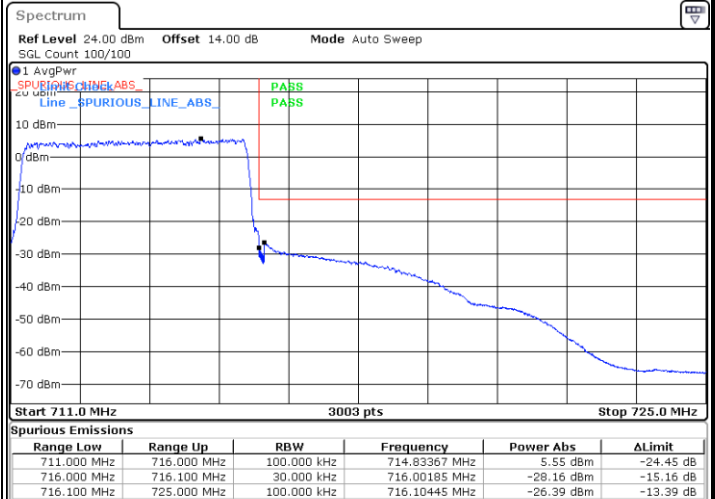
Date: 20.MAR.2023 11:15:40

Lowest Band Edge / Full RB



Date: 20.MAR.2023 11:06:56

Highest Band Edge / Full RB

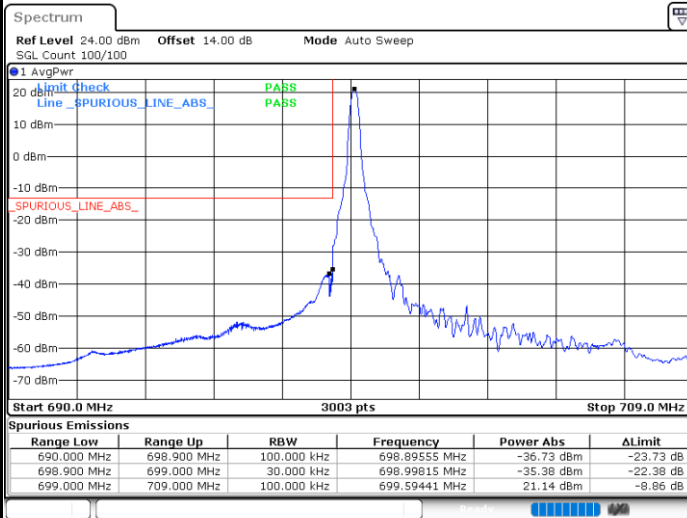


Date: 20.MAR.2023 11:13:53



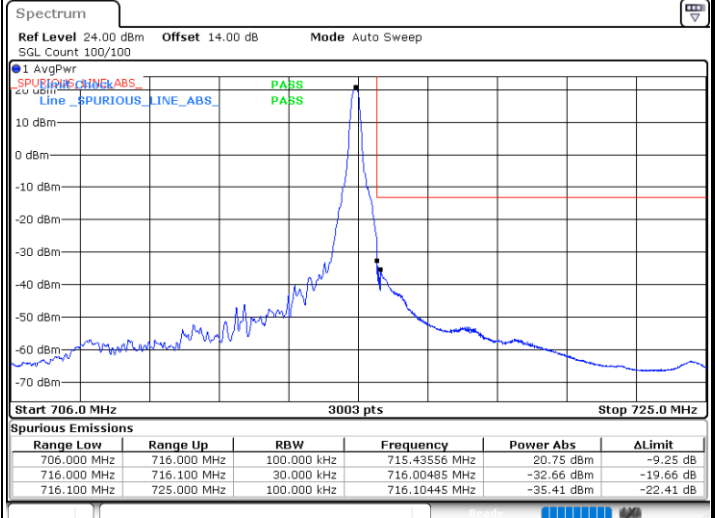
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



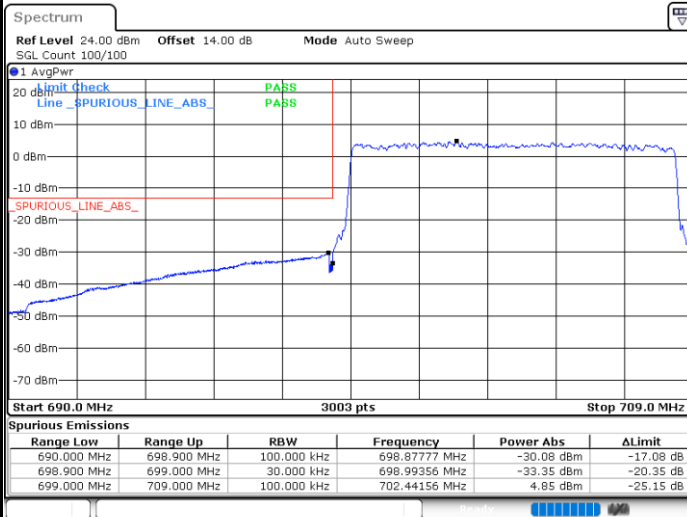
Date: 20.MAR.2023 11:36:55

Highest Band Edge / 1 RB



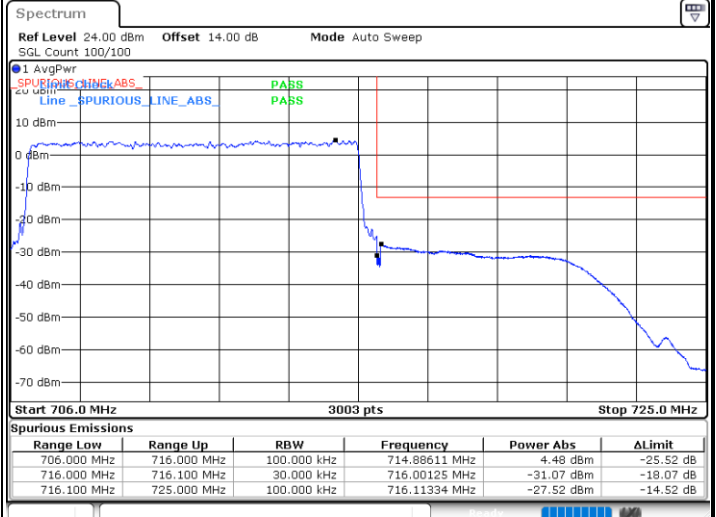
Date: 20.MAR.2023 11:46:46

Lowest Band Edge / Full RB



Date: 20.MAR.2023 11:34:31

Highest Band Edge / Full RB

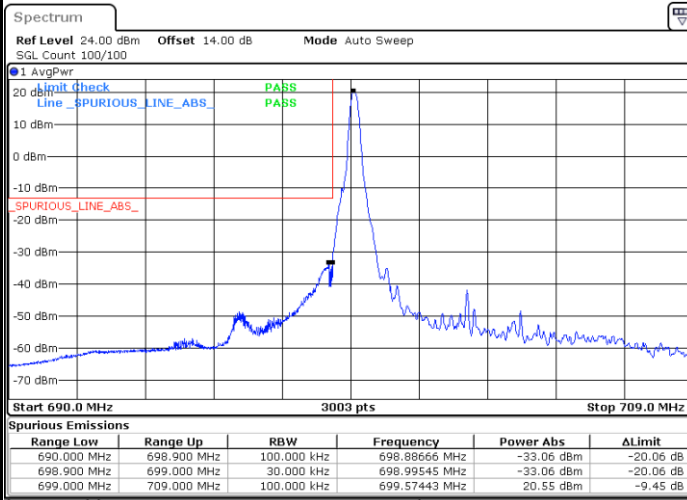


Date: 20.MAR.2023 11:44:21



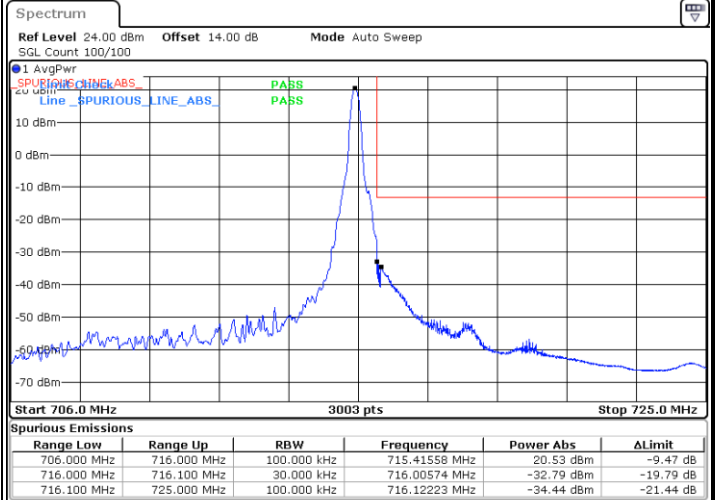
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



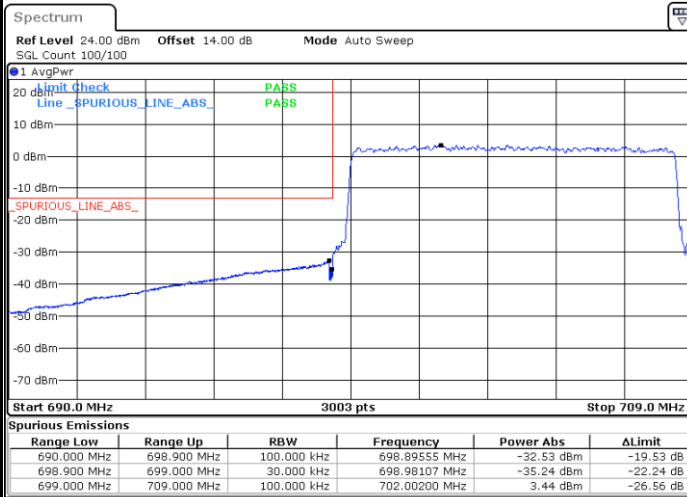
Date: 20.MAR.2023 11:36:07

Highest Band Edge / 1 RB



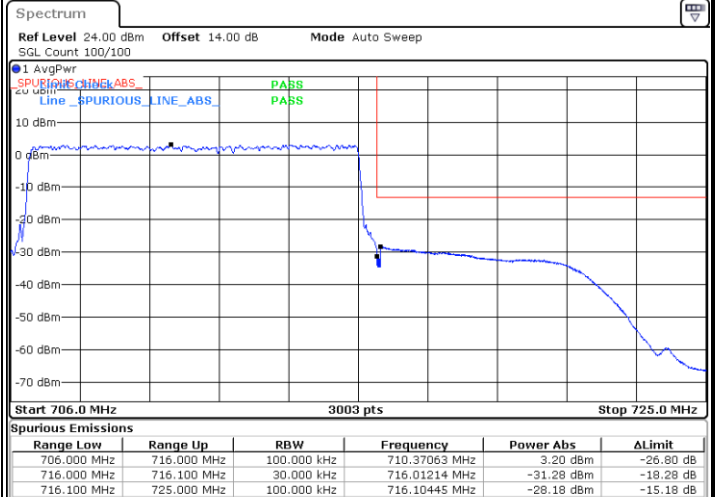
Date: 20.MAR.2023 11:45:58

Lowest Band Edge / Full RB



Date: 20.MAR.2023 11:35:19

Highest Band Edge / Full RB

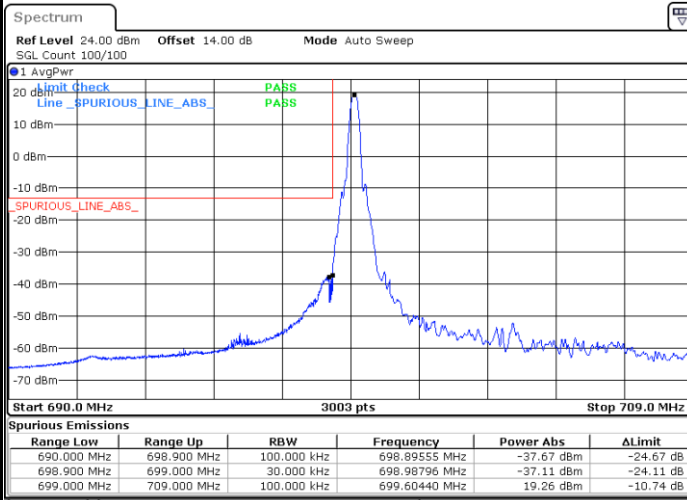


Date: 20.MAR.2023 11:45:09



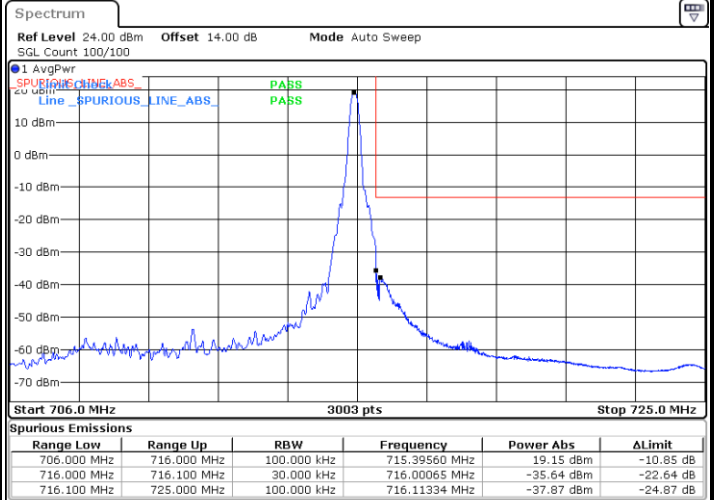
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



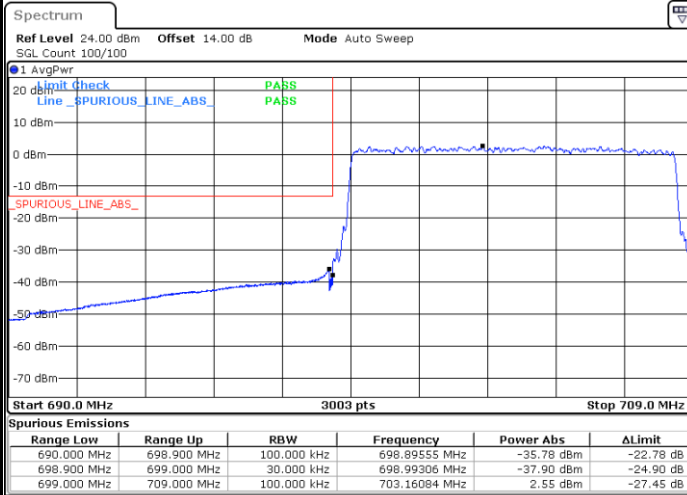
Date: 20.MAR.2023 11:50:36

Highest Band Edge / 1 RB



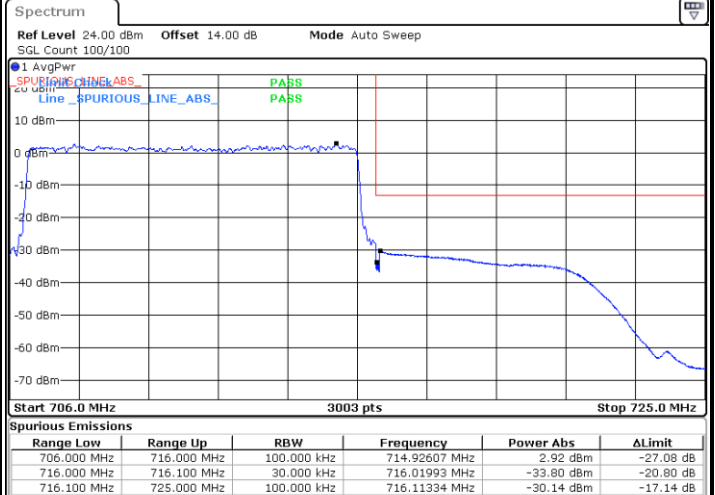
Date: 20.MAR.2023 11:54:55

Lowest Band Edge / Full RB



Date: 20.MAR.2023 11:49:48

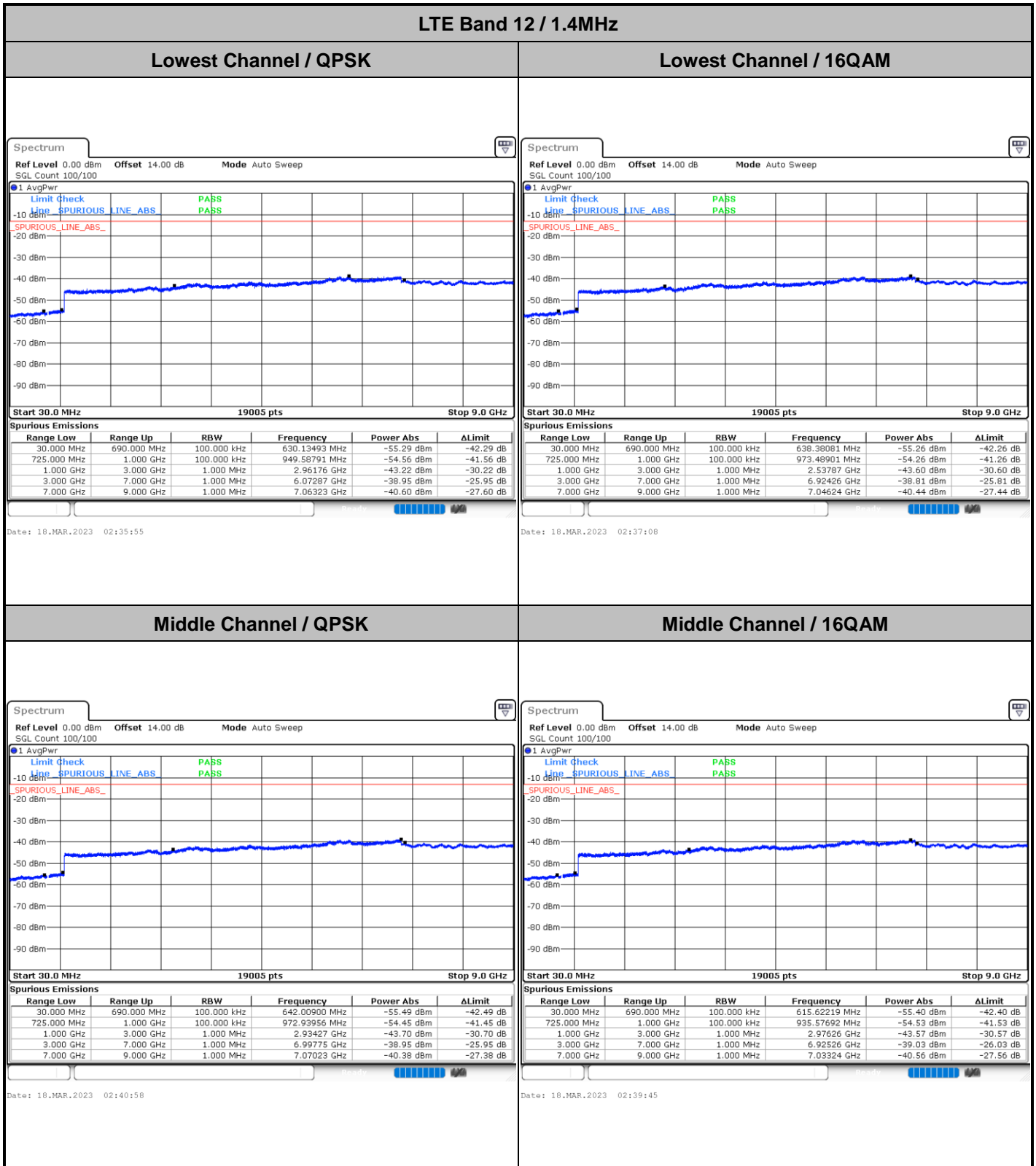
Highest Band Edge / Full RB



Date: 20.MAR.2023 11:54:06



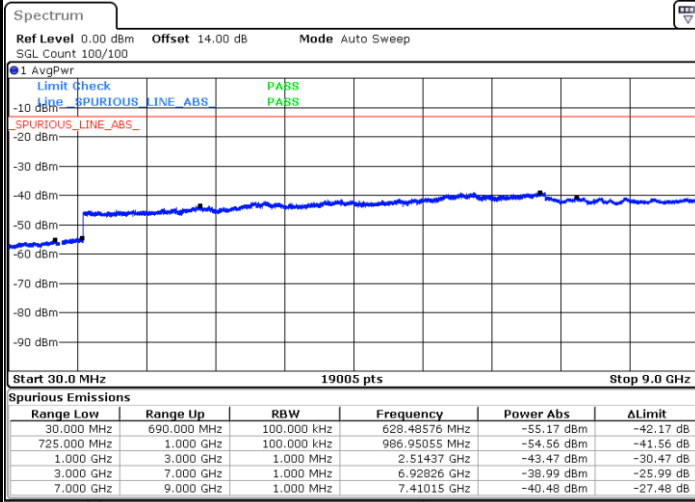
Conducted Spurious Emission





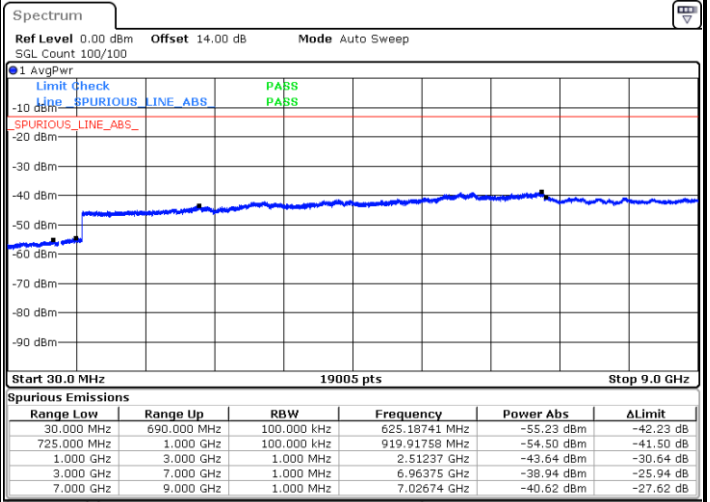
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 18.MAR.2023 02:50:39

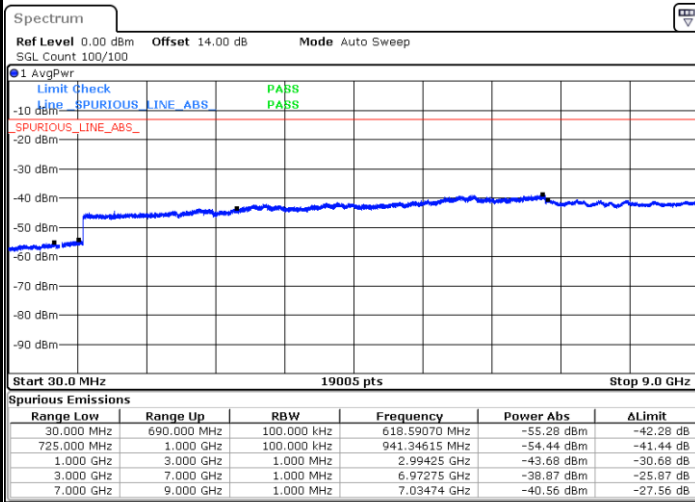
Highest Channel / 16QAM



Date: 18.MAR.2023 02:51:52

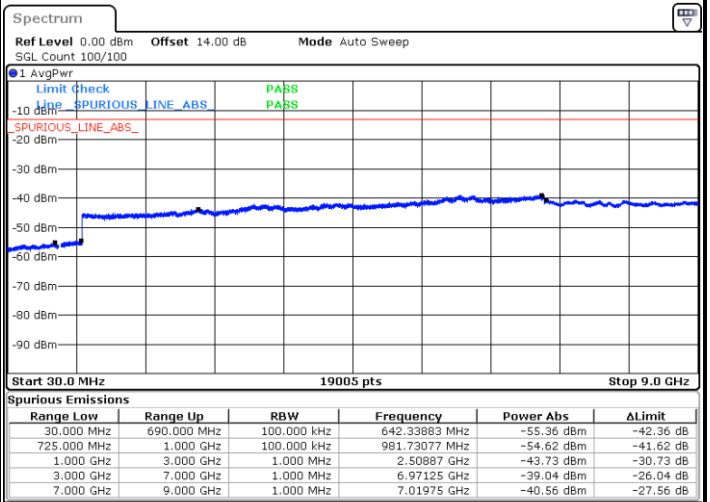
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 18.MAR.2023 03:13:42

Lowest Channel / 16QAM



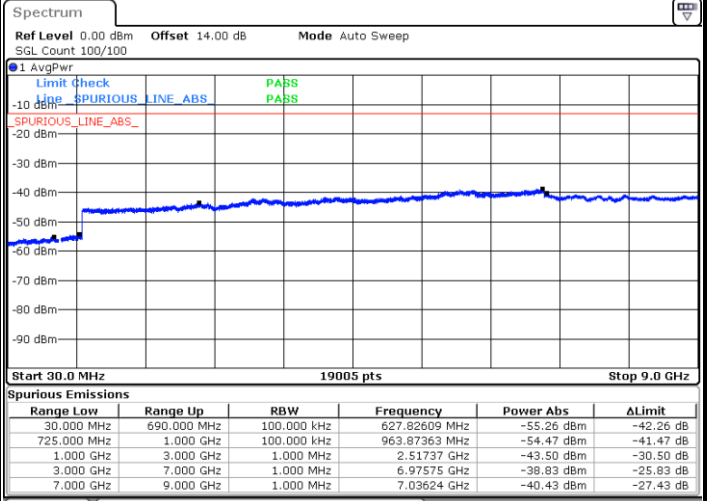
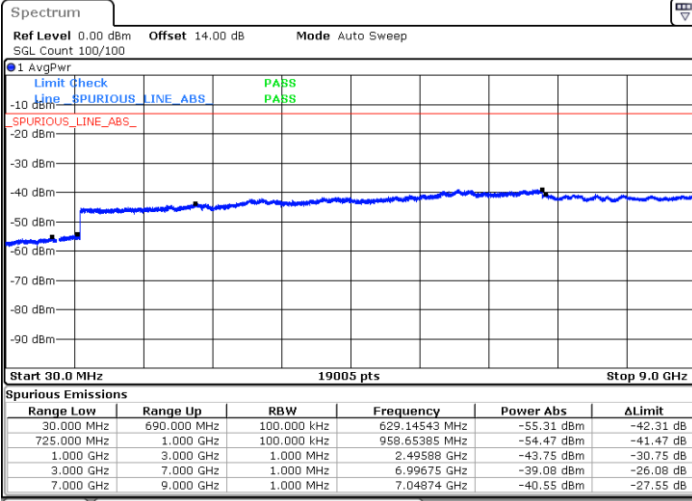
Date: 18.MAR.2023 03:14:55



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

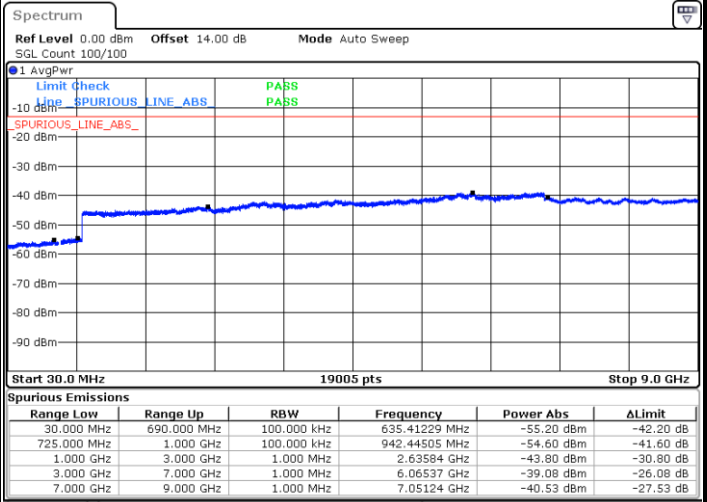
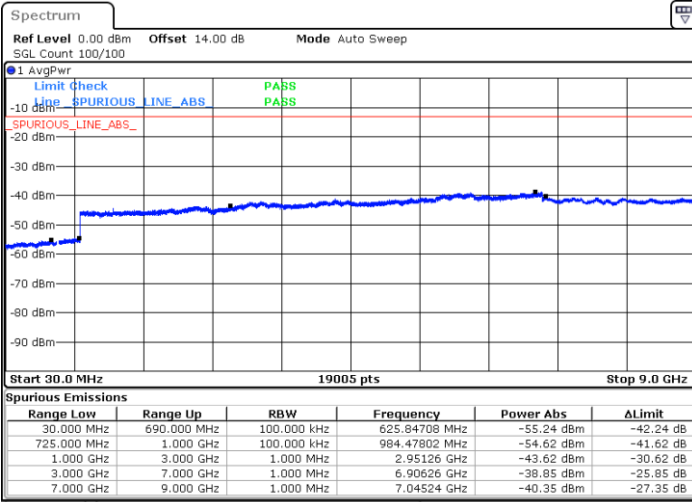


Date: 18.MAR.2023 03:18:45

Date: 18.MAR.2023 03:17:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.MAR.2023 03:29:04

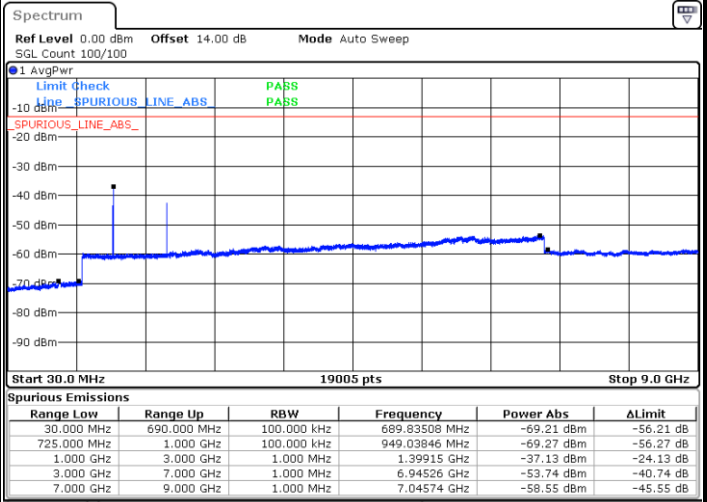
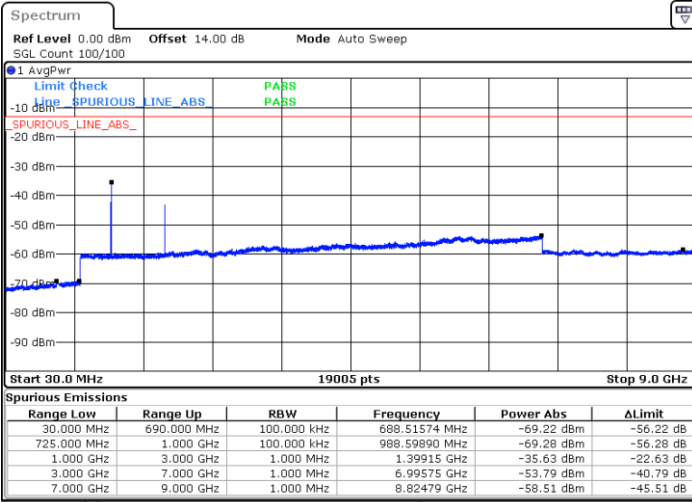
Date: 18.MAR.2023 03:30:17



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

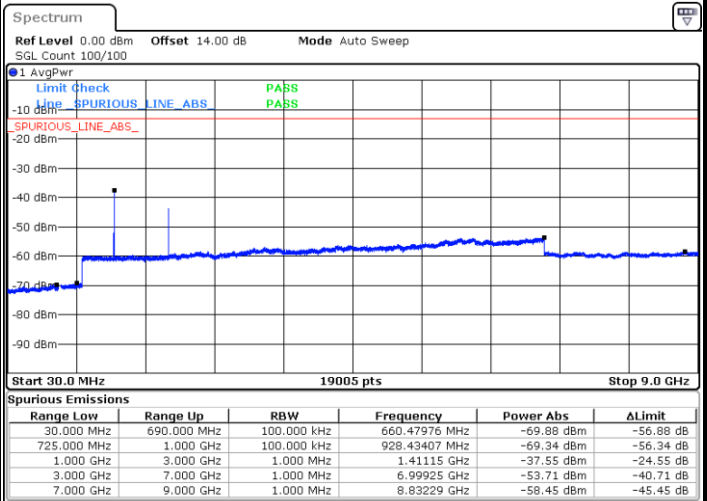
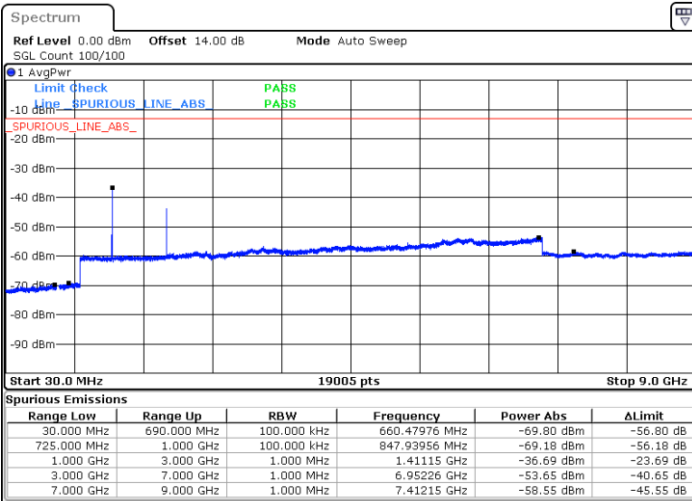


Date: 20.MAR.2023 11:22:07

Date: 20.MAR.2023 11:22:59

Middle Channel / QPSK

Middle Channel / 16QAM



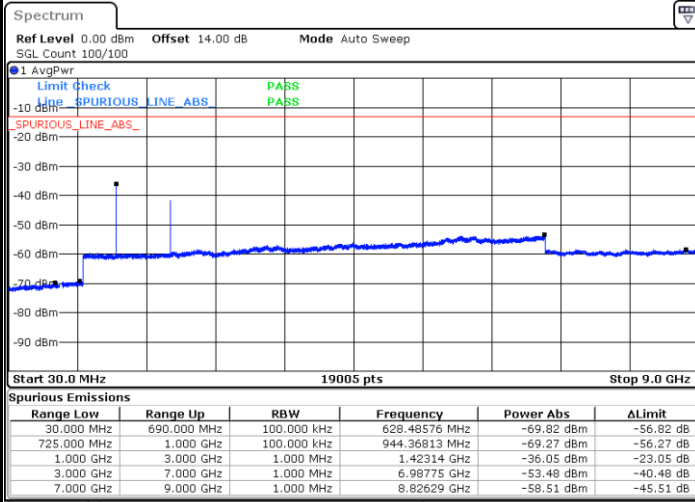
Date: 20.MAR.2023 11:26:09

Date: 20.MAR.2023 11:25:17



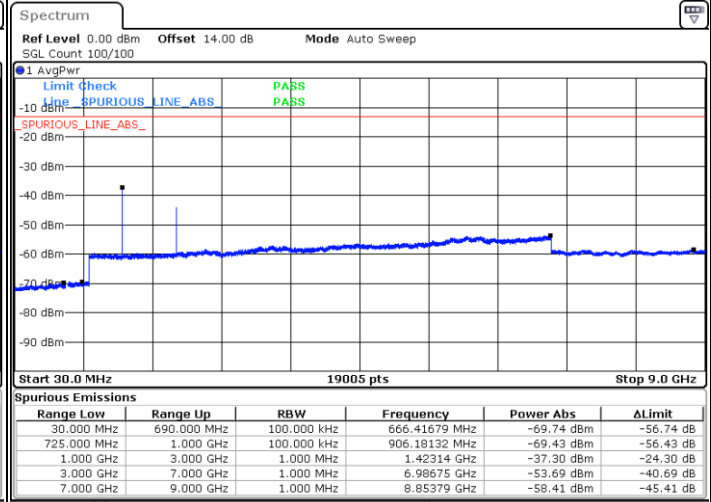
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 20.MAR.2023 11:32:24

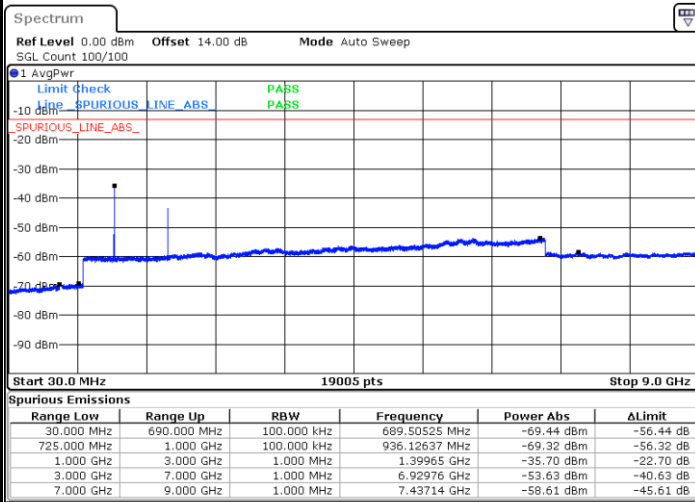
Highest Channel / 16QAM



Date: 20.MAR.2023 11:31:31

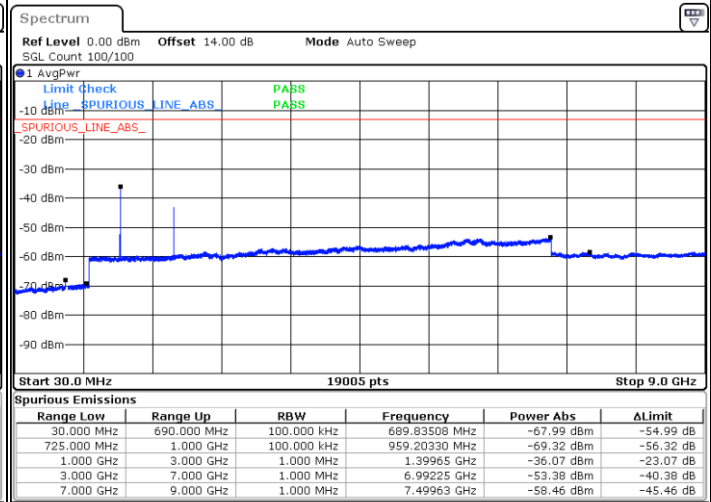
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 20.MAR.2023 11:37:38

Lowest Channel / 16QAM



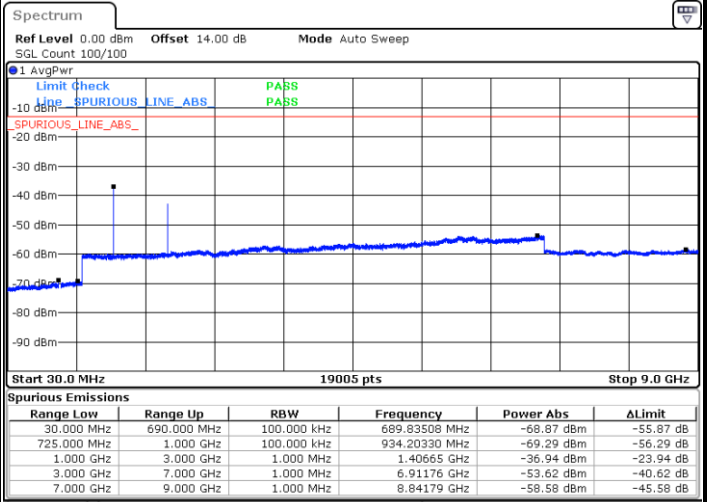
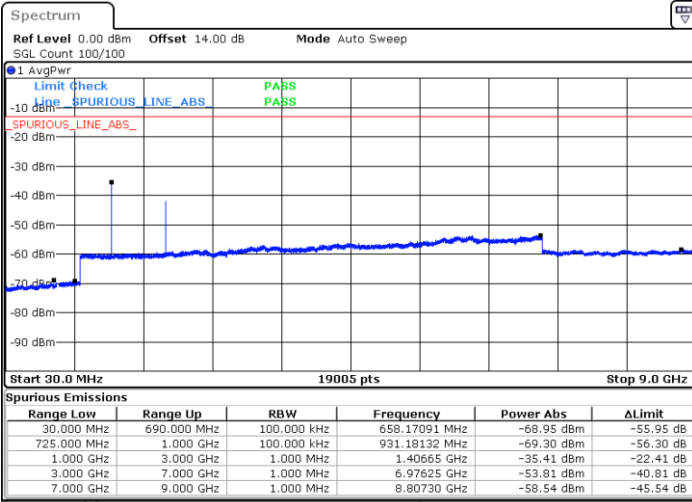
Date: 20.MAR.2023 11:38:30



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

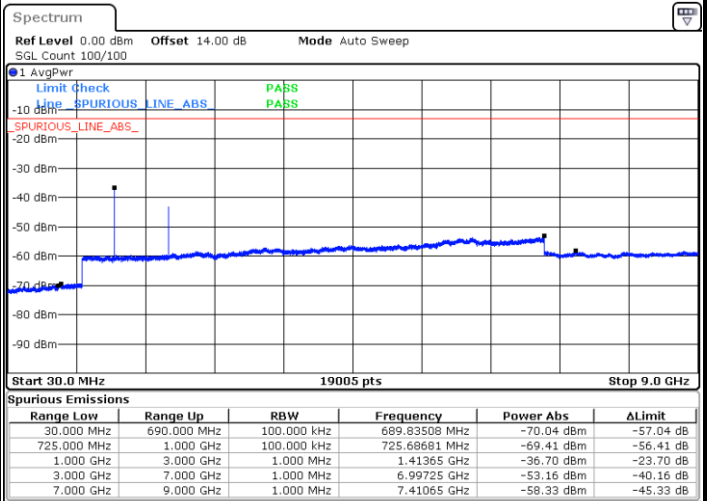
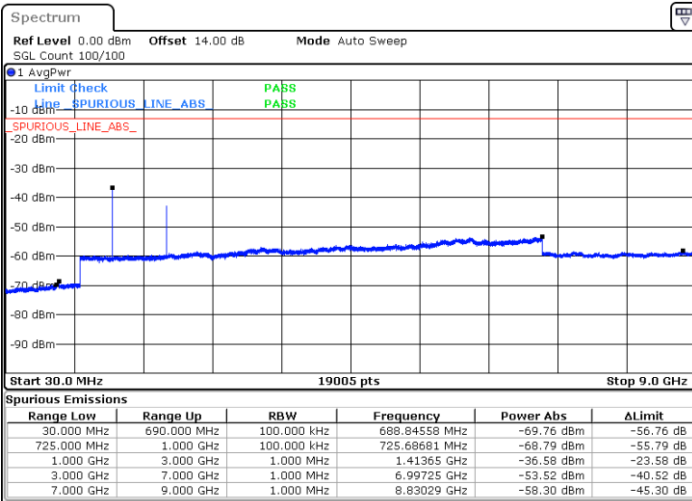


Date: 20.MAR.2023 11:41:39

Date: 20.MAR.2023 11:40:48

Highest Channel / QPSK

Highest Channel / 16QAM



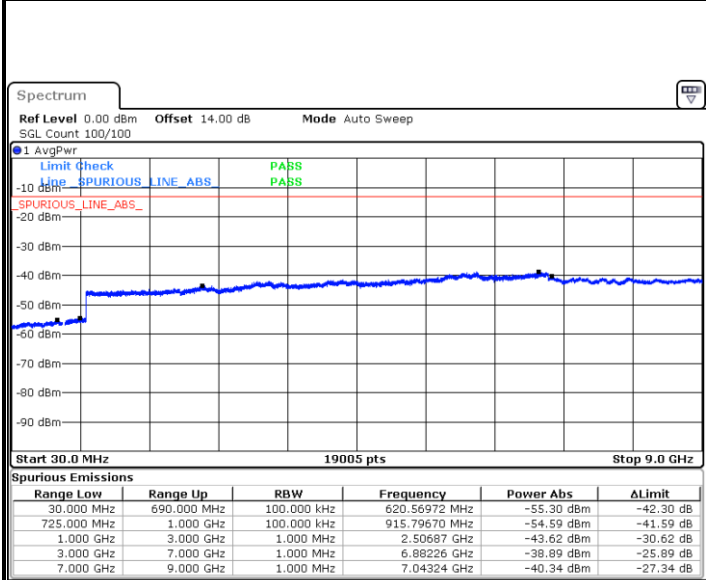
Date: 20.MAR.2023 11:47:38

Date: 20.MAR.2023 11:48:31



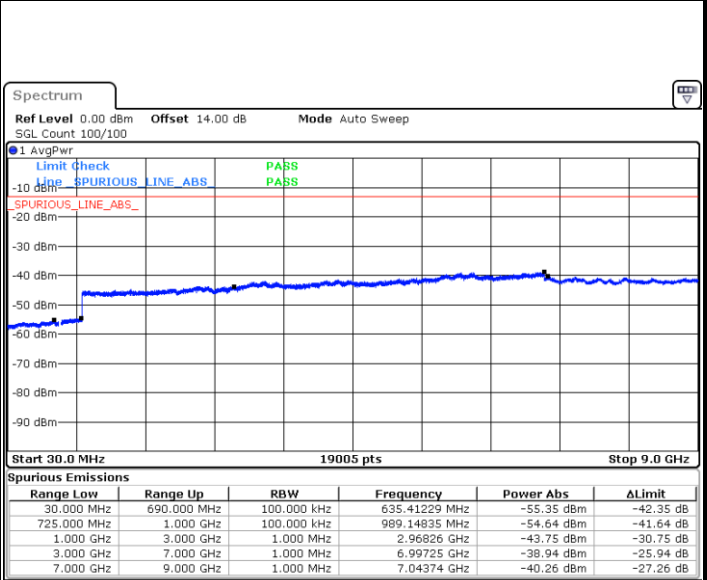
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



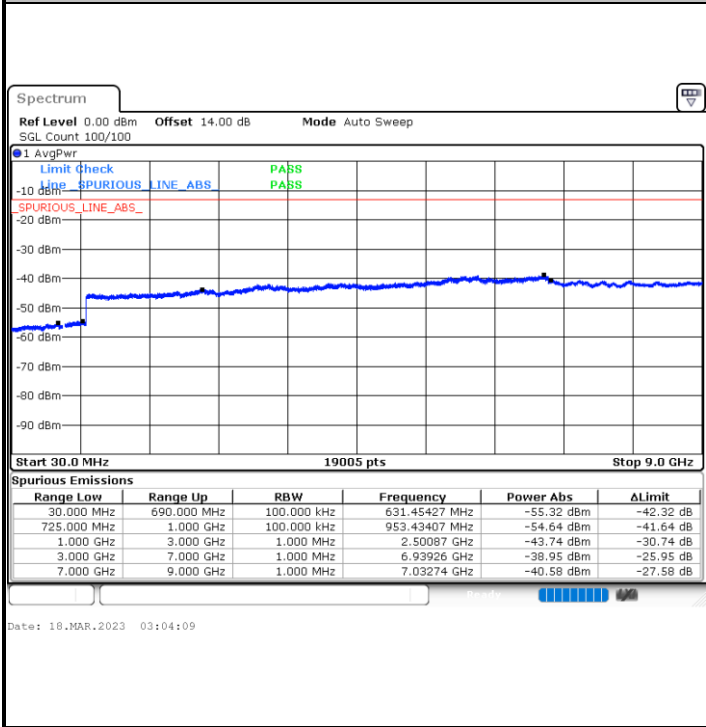
Date: 18.MAR.2023 02:57:01

Middle Channel / 64QAM



Date: 18.MAR.2023 02:58:51

Highest Channel / 64QAM



Date: 18.MAR.2023 03:04:09

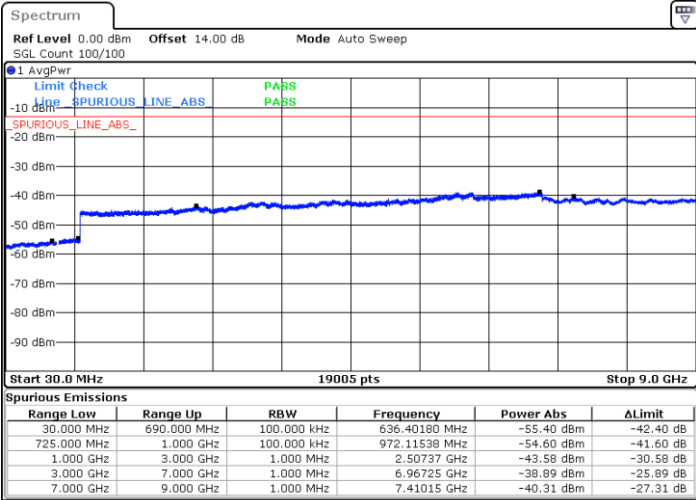
NA



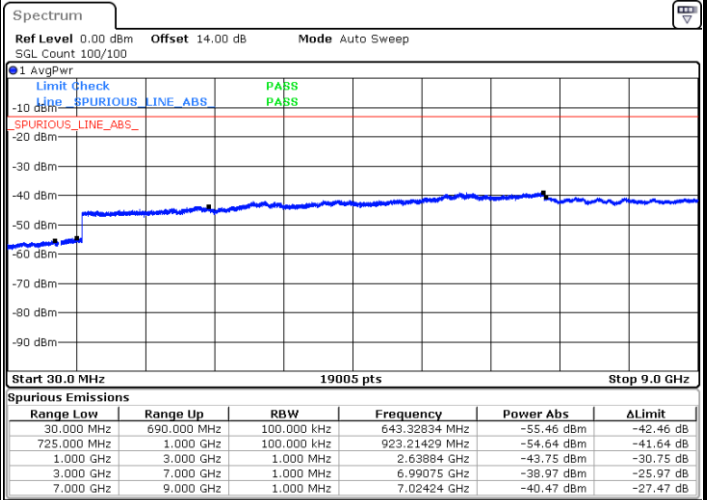
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



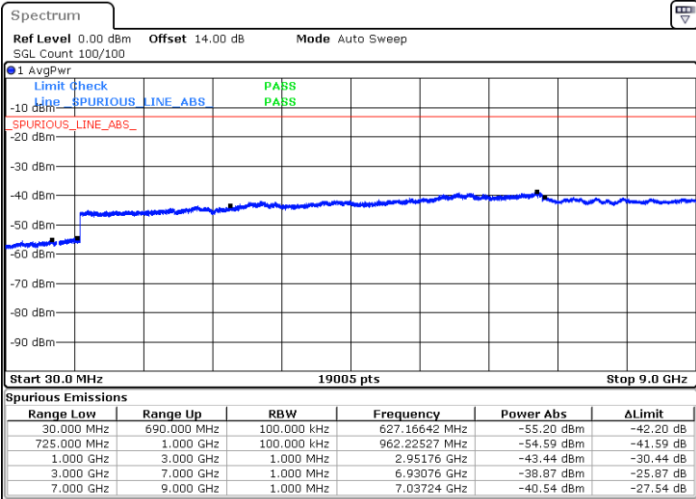
Date: 18.MAR.2023 03:35:27



Date: 18.MAR.2023 03:37:20

Highest Channel / 64QAM

NA

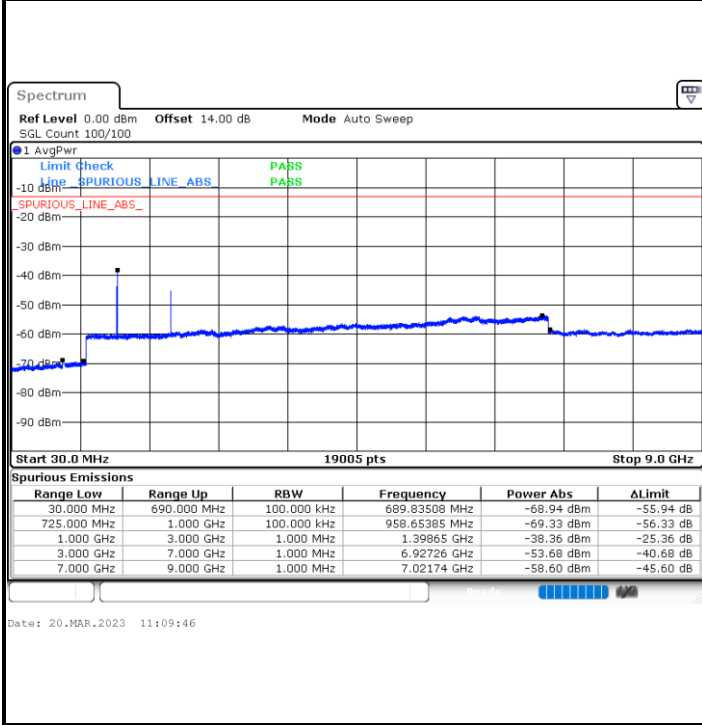


Date: 18.MAR.2023 03:42:40

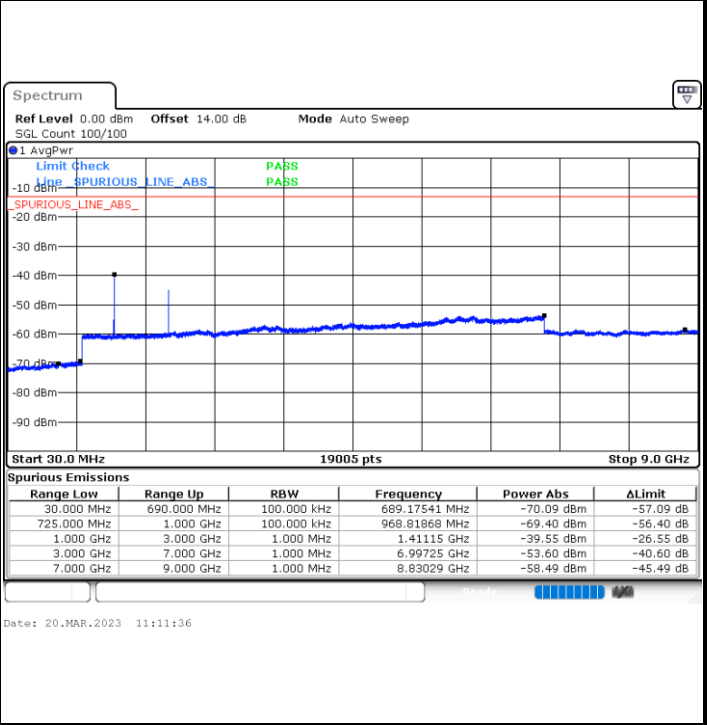


LTE Band 12 / 5MHz

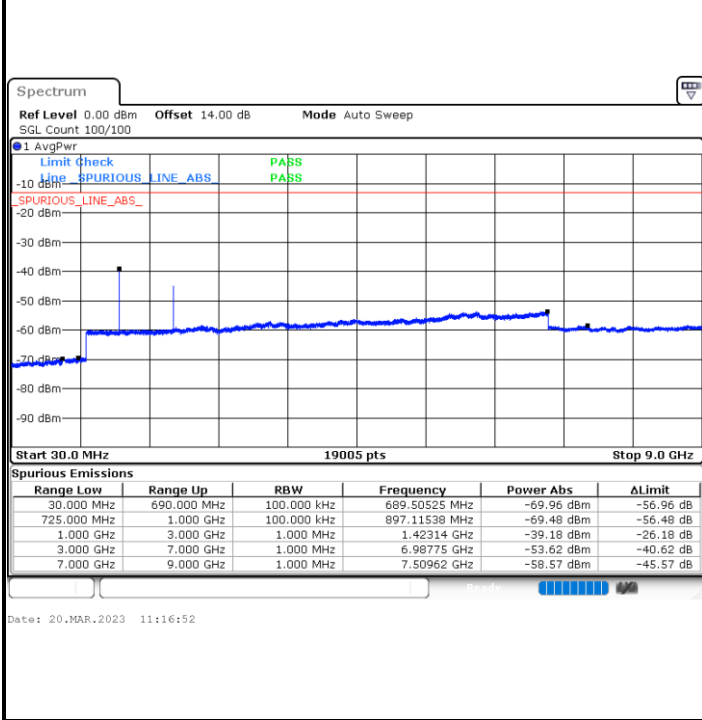
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



NA

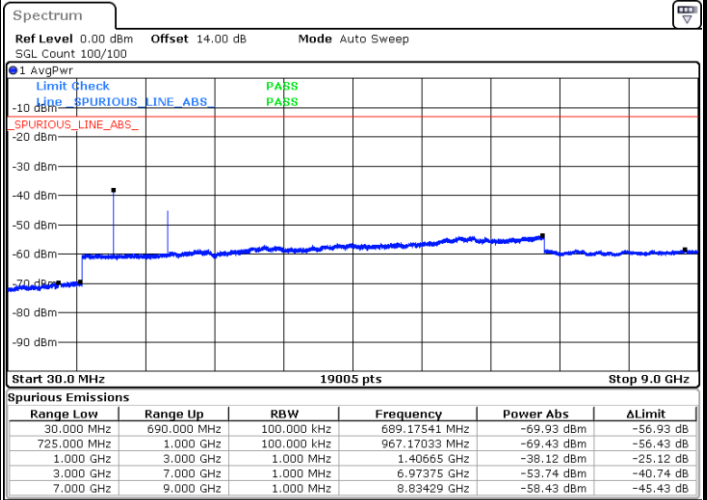
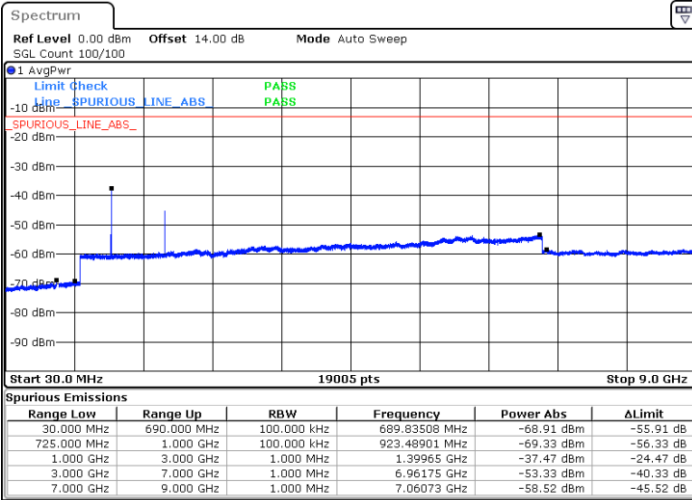




LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

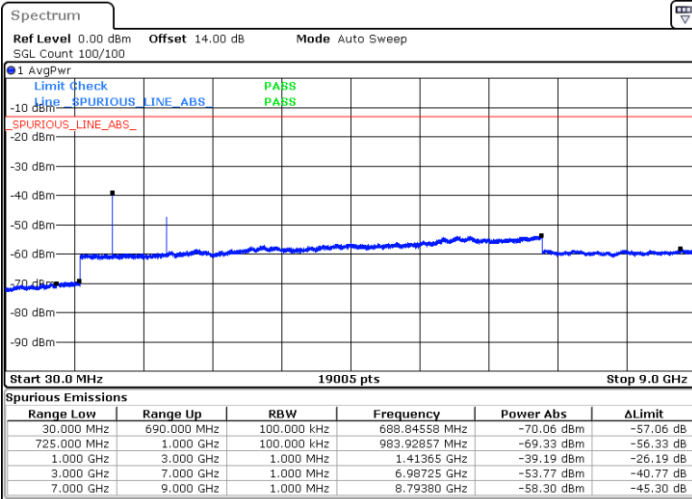


Date: 20.MAR.2023 11:51:19

Date: 20.MAR.2023 11:52:49

Highest Channel / 64QAM

NA



Date: 20.MAR.2023 11:55:47



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	0.0006	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0047	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0040	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0033	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

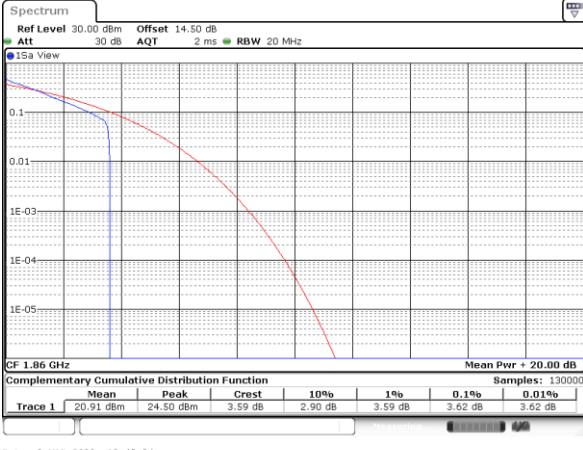
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.52	4.20	5.65	PASS
Middle CH	3.62	4.52	4.46	5.65	
Highest CH	3.65	4.67	4.29	5.68	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.13	6.20	-	-	PASS
Middle CH	5.42	6.23	-	-	
Highest CH	5.45	6.20	-	-	



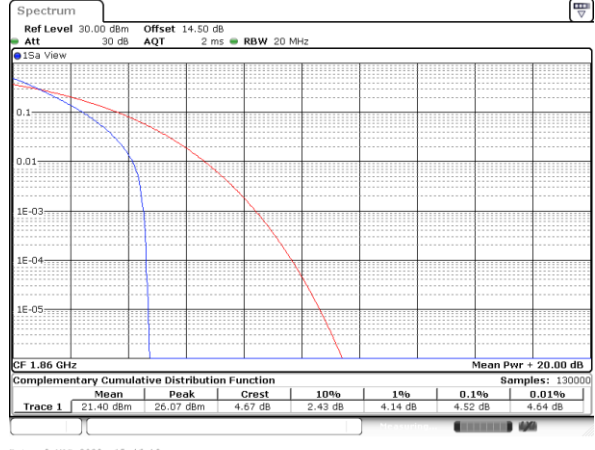
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



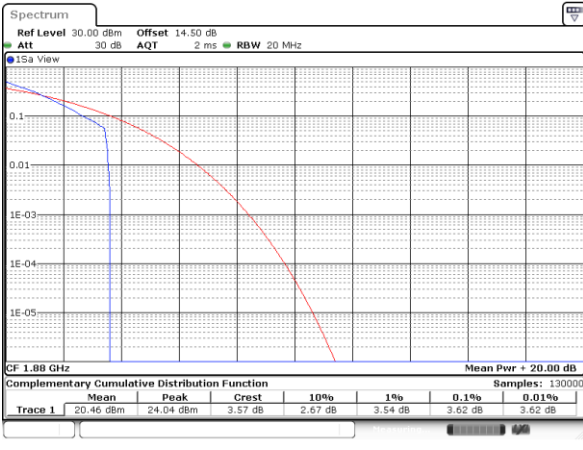
Date: 9,MAR,2023 15:45:54

Lowest Channel / Full RB



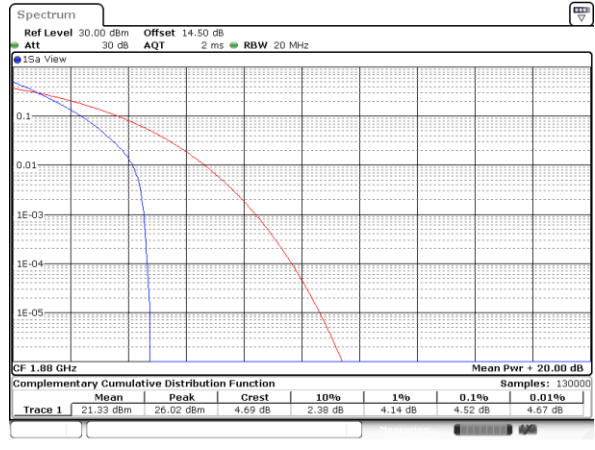
Date: 9,MAR,2023 15:46:19

Middle Channel / 1RB



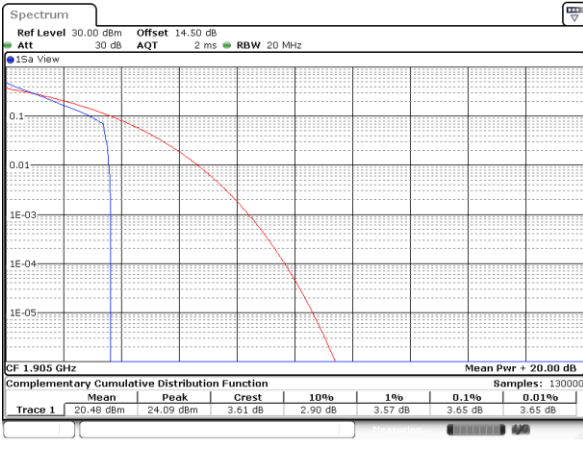
Date: 9,MAR,2023 15:47:35

Middle Channel / Full RB



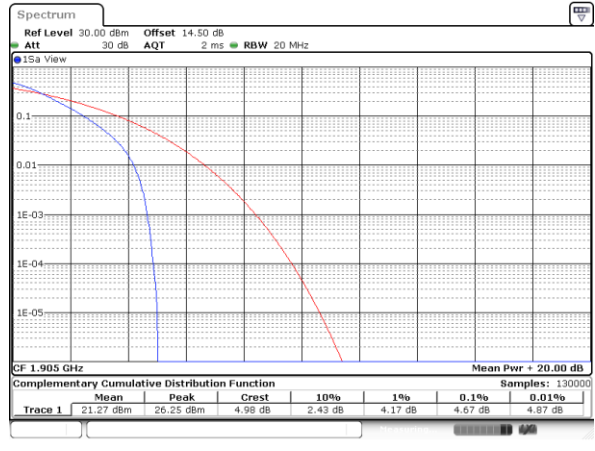
Date: 9,MAR,2023 15:48:01

Highest Channel / 1RB



Date: 9,MAR,2023 15:49:18

Highest Channel / Full RB

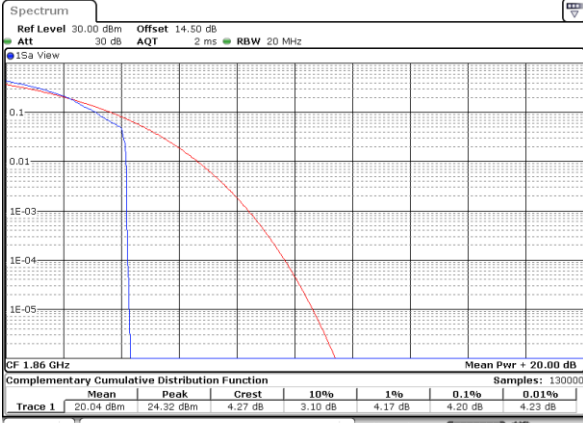


Date: 9,MAR,2023 15:49:43



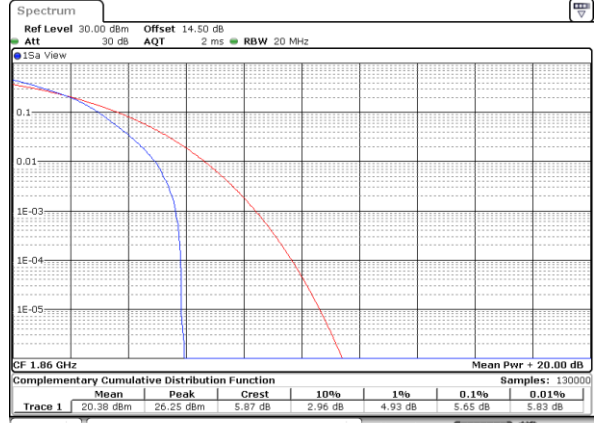
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



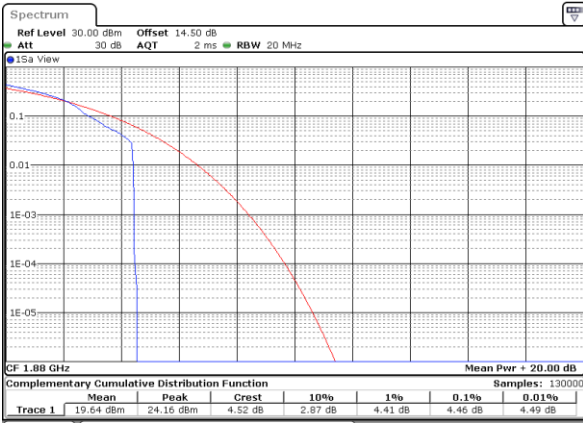
Date: 9,MAR,2023 15:45:03

Lowest Channel / Full RB



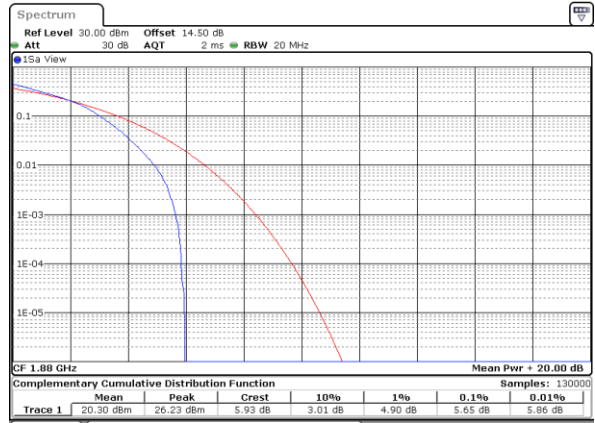
Date: 9,MAR,2023 15:45:28

Middle Channel / 1RB



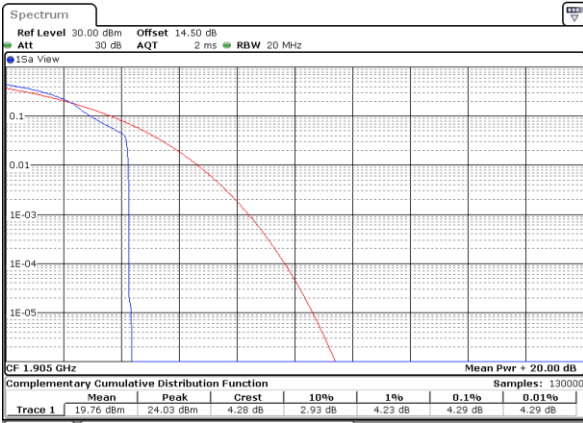
Date: 9,MAR,2023 15:46:45

Middle Channel / Full RB



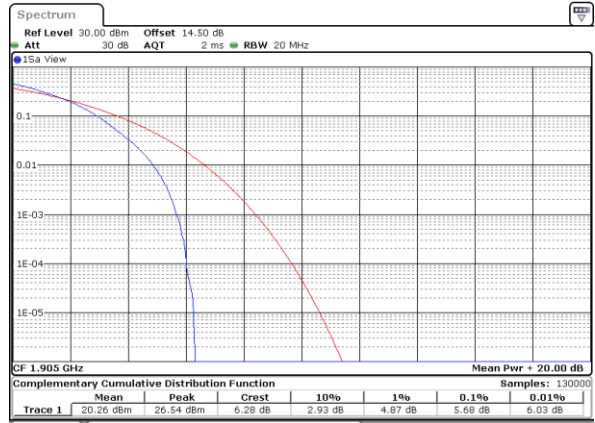
Date: 9,MAR,2023 15:47:10

Highest Channel / 1RB



Date: 9,MAR,2023 15:48:26

Highest Channel / Full RB

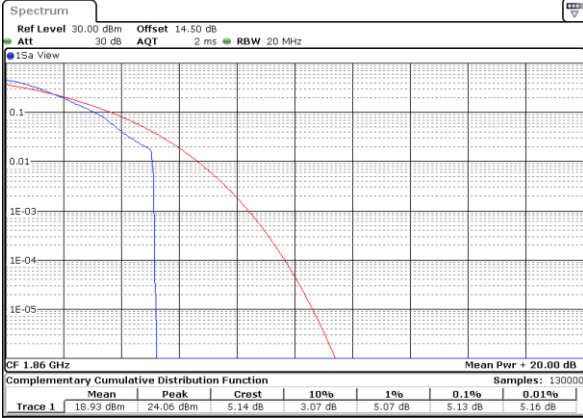


Date: 9,MAR,2023 15:48:52



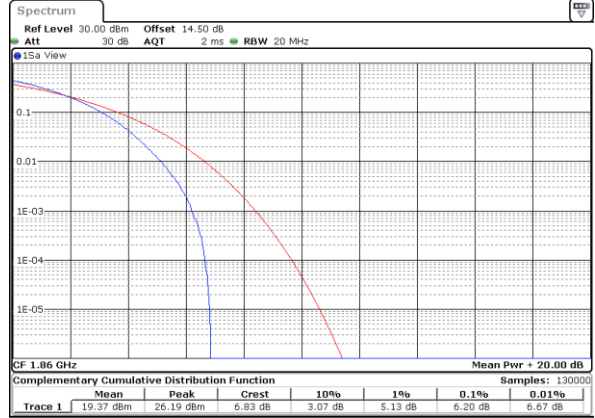
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



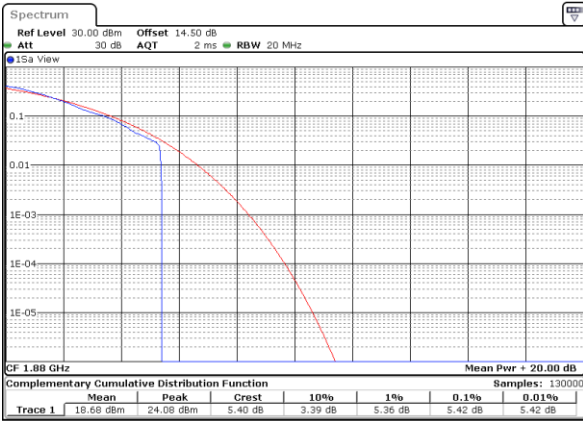
Date: 9,MAR,2023 15:42:31

Lowest Channel / Full RB



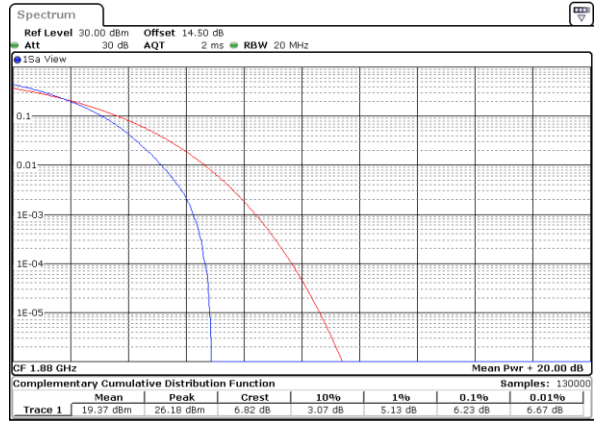
Date: 9,MAR,2023 15:42:56

Middle Channel / 1RB



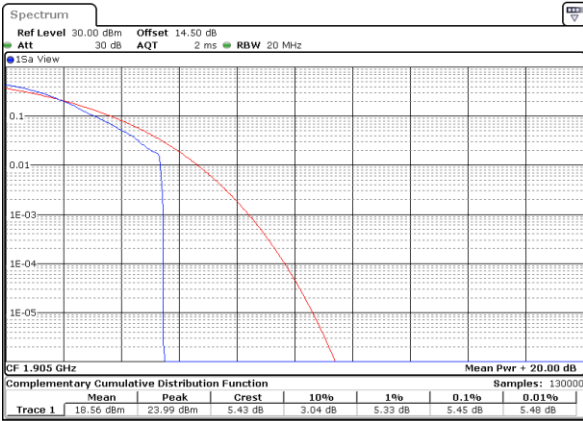
Date: 9,MAR,2023 15:43:22

Middle Channel / Full RB



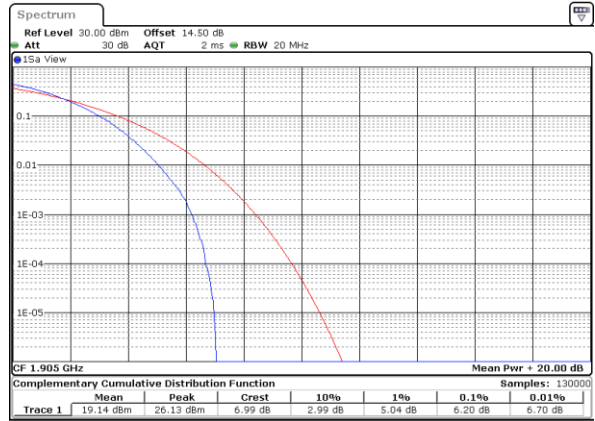
Date: 9,MAR,2023 15:43:47

Highest Channel / 1RB



Date: 9,MAR,2023 15:44:12

Highest Channel / Full RB



Date: 9,MAR,2023 15:44:38



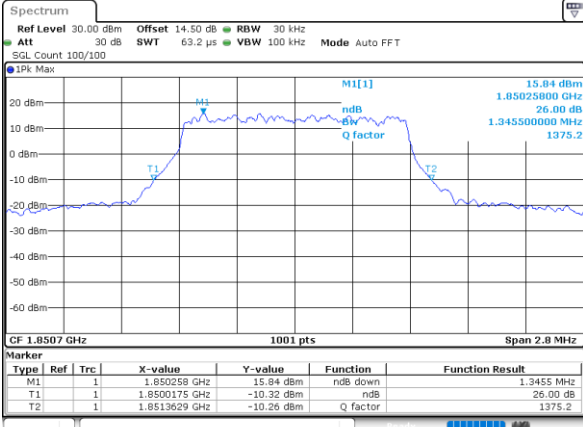
26dB Bandwidth

Mode	LTE Band 25 : 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	1.35	1.36	3.12	3.05	5.12	4.96	9.87	9.87	14.99	14.24	19.02	18.94
Middle CH	1.35	1.41	3.13	2.98	4.96	4.98	9.97	10.19	14.60	14.21	18.90	19.22
Highest CH	1.32	1.34	3.10	3.08	5.05	5.14	9.83	9.97	14.72	14.39	19.58	19.30
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.37	-	3.05	-	5.10	-	9.95	-	14.96	-	19.18	-
Middle CH	1.32	-	3.06	-	5.04	-	10.13	-	14.72	-	19.06	-
Highest CH	1.37	-	3.06	-	4.92	-	10.03	-	14.30	-	18.66	-



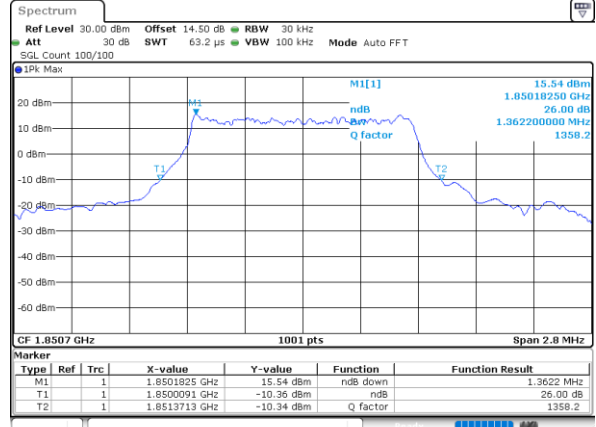
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



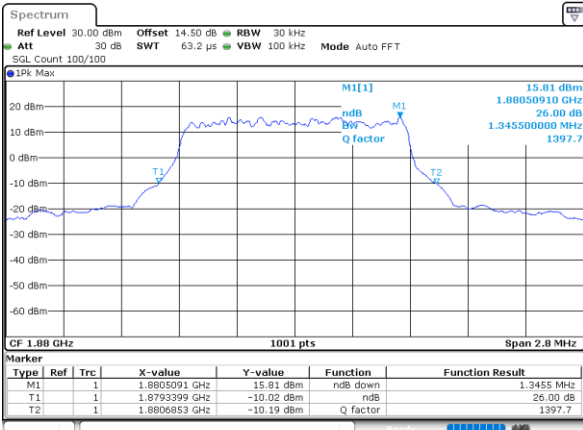
Date: 9_MAR.2023 12:33:58

Lowest Channel / 1.4MHz / 16QAM



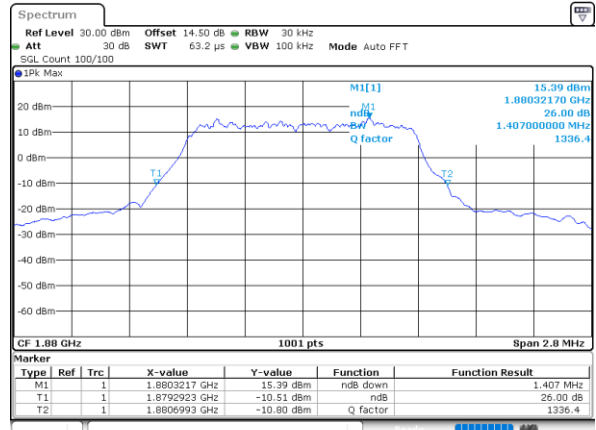
Date: 9_MAR.2023 12:34:22

Middle Channel / 1.4MHz / QPSK



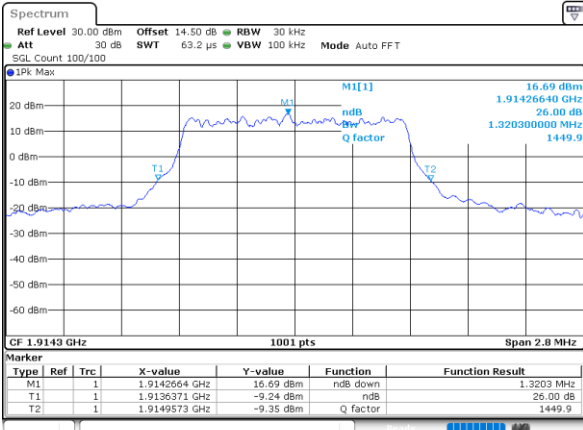
Date: 9_MAR.2023 12:49:08

Middle Channel / 1.4MHz / 16QAM



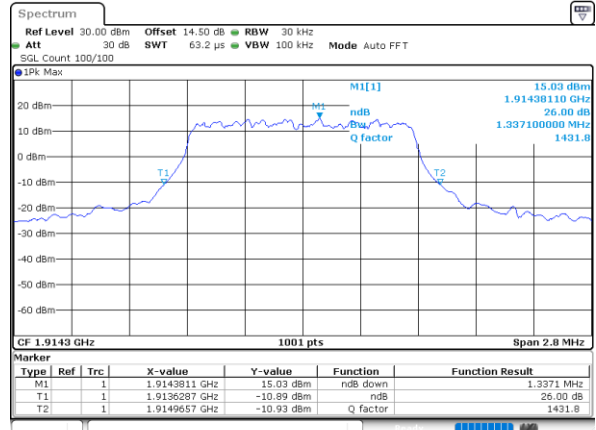
Date: 9_MAR.2023 12:49:32

Highest Channel / 1.4MHz / QPSK



Date: 9_MAR.2023 12:53:04

Highest Channel / 1.4MHz / 16QAM

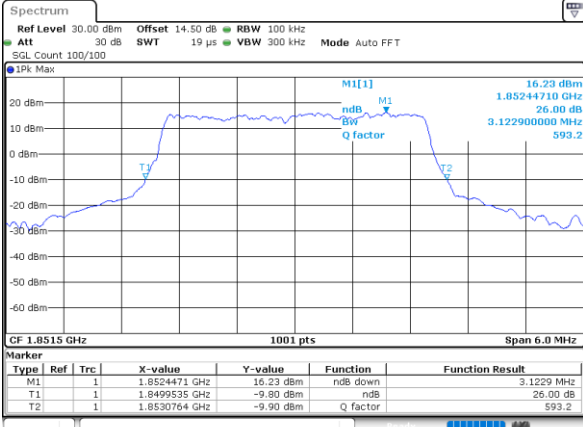


Date: 9_MAR.2023 12:52:40



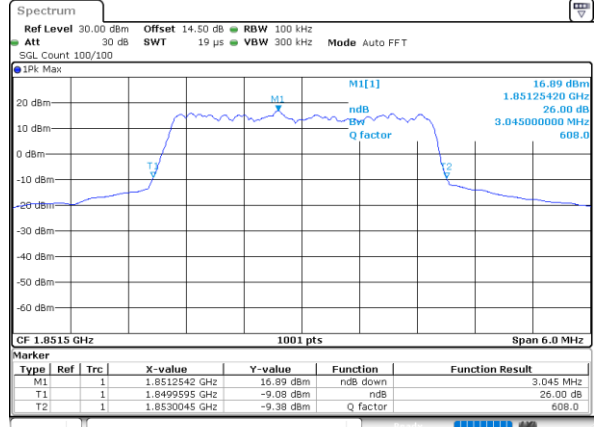
LTE Band 25

Lowest Channel / 3MHz / QPSK



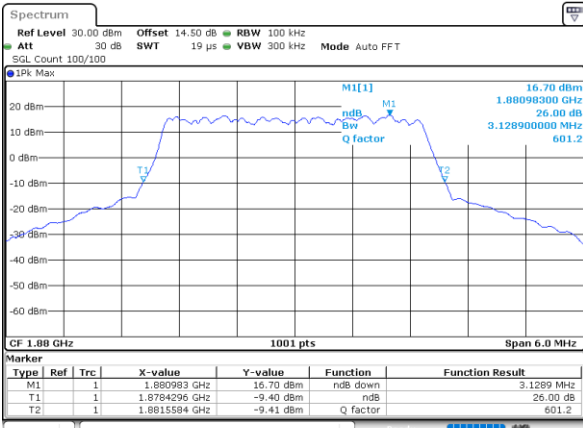
Date: 9,MAR,2023 13:21:27

Lowest Channel / 3MHz / 16QAM



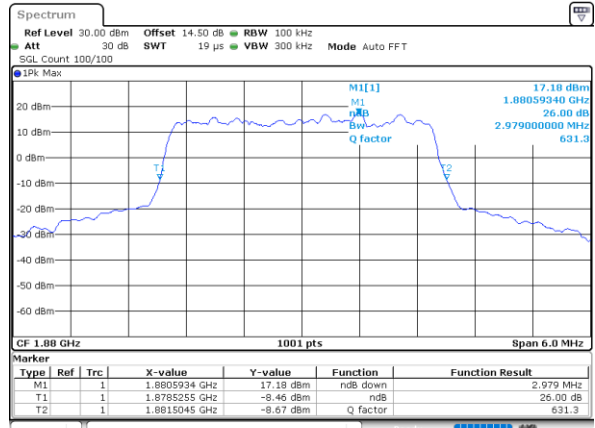
Date: 9,MAR,2023 13:21:50

Middle Channel / 3MHz / QPSK



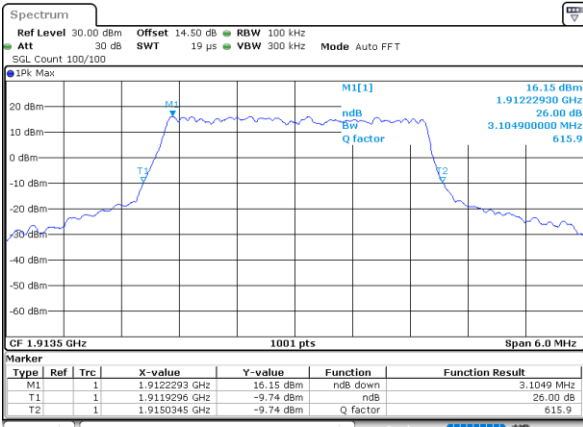
Date: 9,MAR,2023 13:29:48

Middle Channel / 3MHz / 16QAM



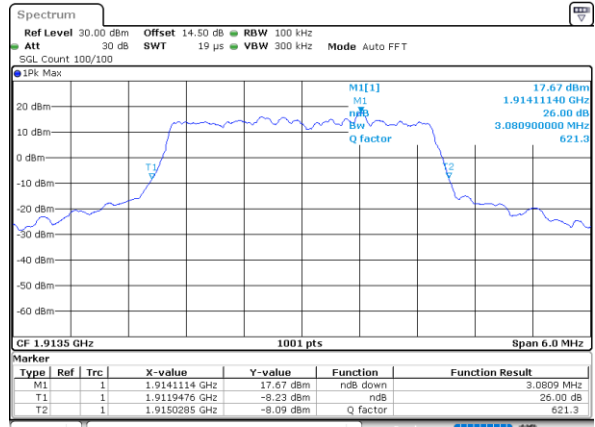
Date: 9,MAR,2023 13:30:12

Highest Channel / 3MHz / QPSK



Date: 9,MAR,2023 13:33:44

Highest Channel / 3MHz / 16QAM



Date: 9,MAR,2023 13:33:20