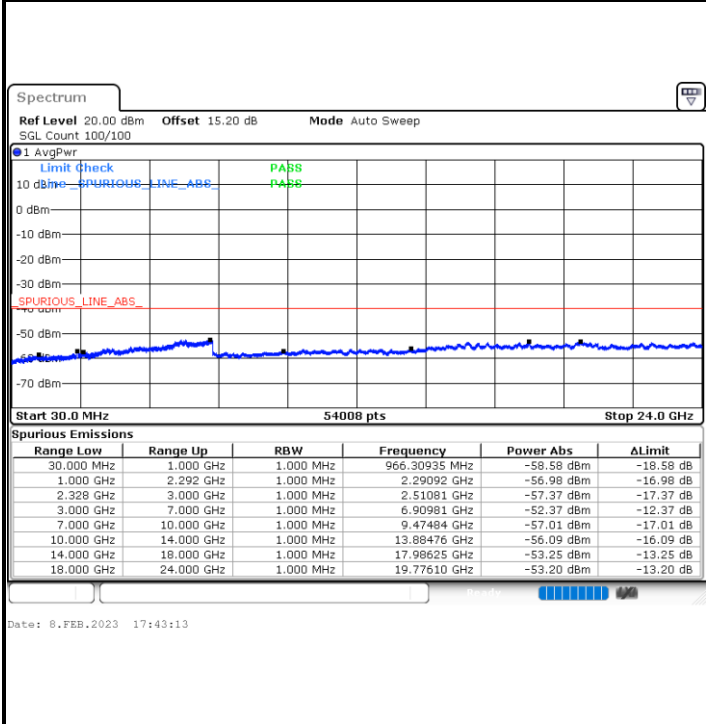


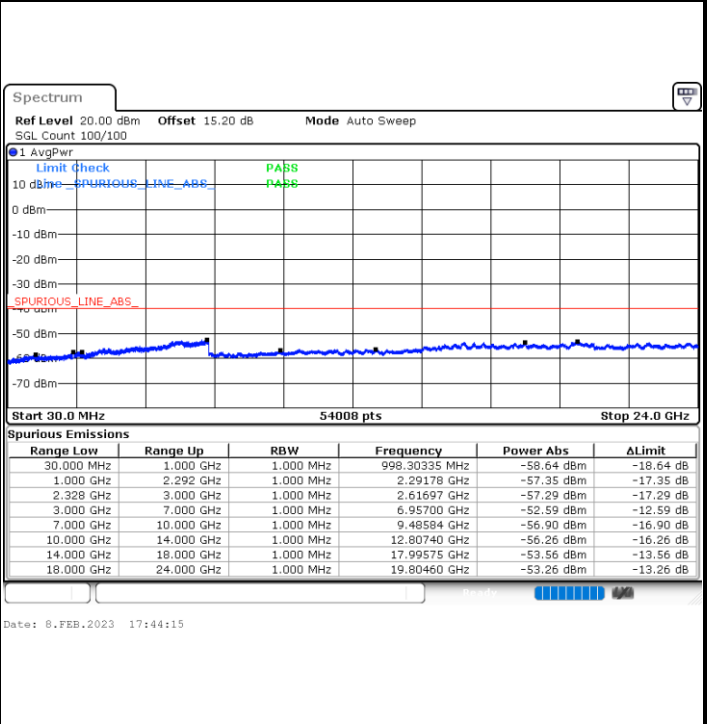


LTE Band 30 / 5MHz

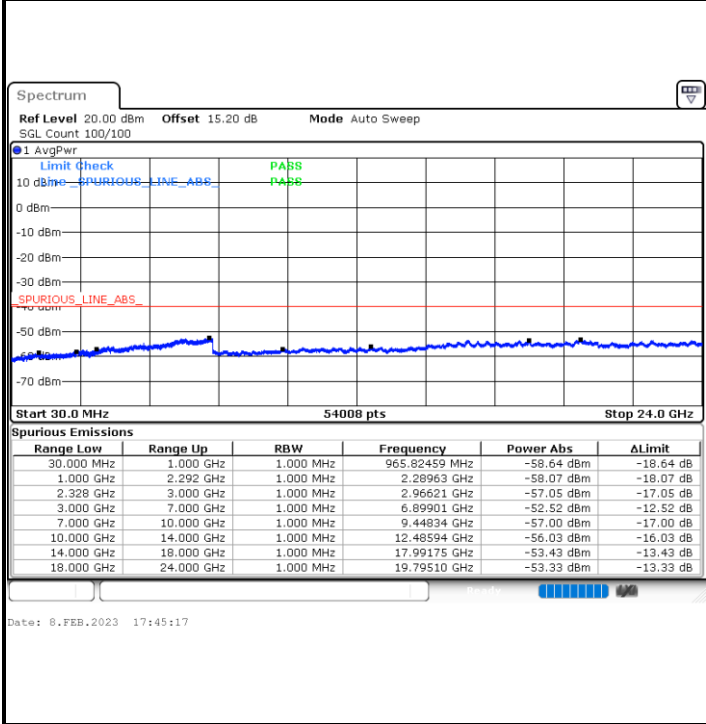
Lowest Channel / 64QAM



Middle Channel / 64QAM

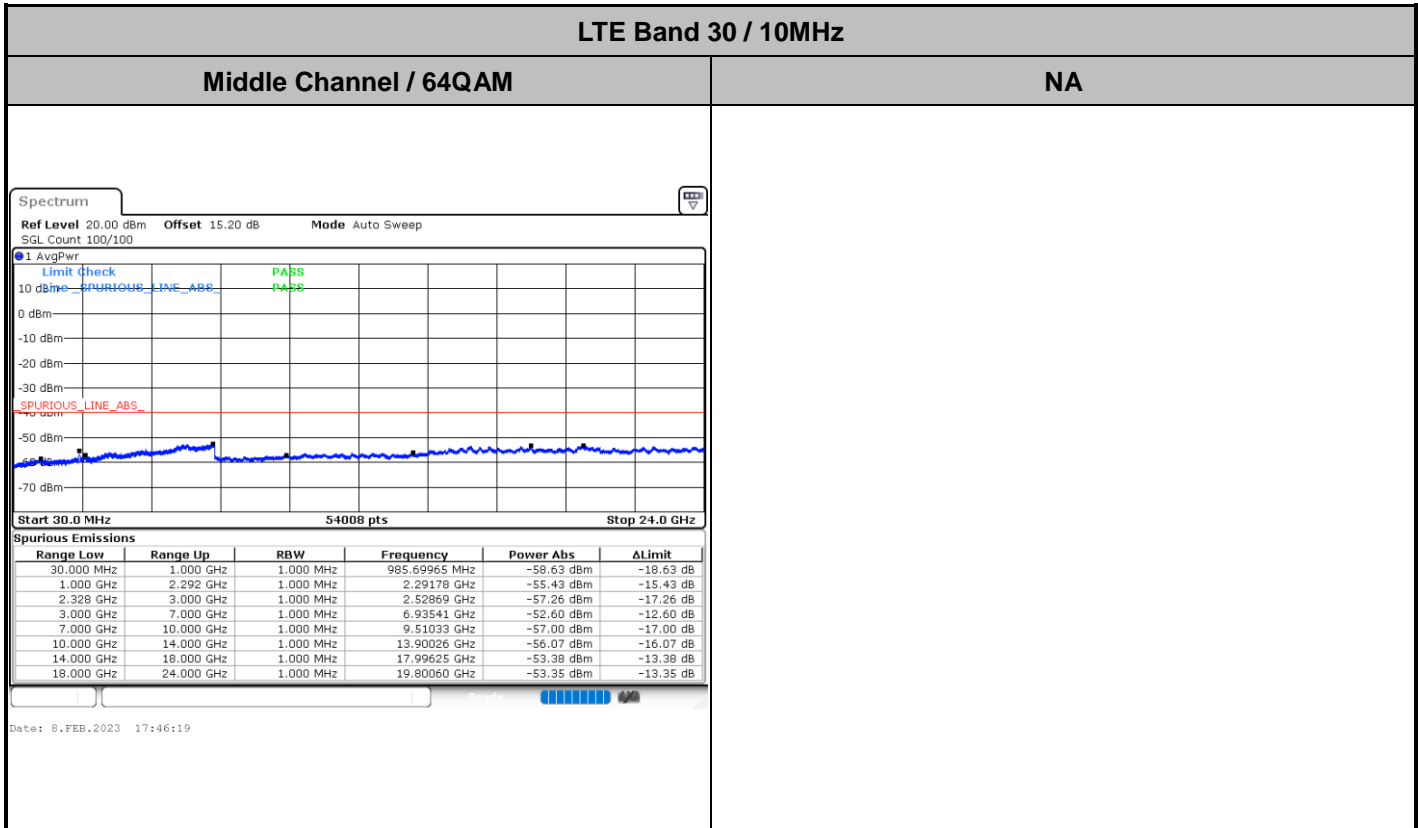


Highest Channel / 64QAM



NA





Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0008	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =7.78 V. ; Battery End Point (BEP) =7.3 V. ; Maximum Voltage =8.7 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 30 (Second PA)

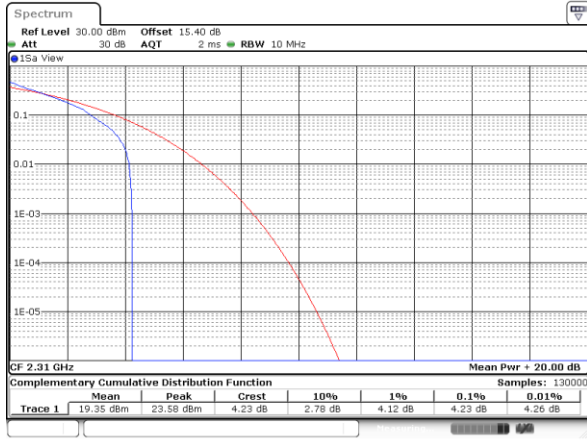
Peak-to-Average Ratio

Mode	LTE Band 30 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.23	5.19	5.07	6.20	
Highest CH	-	-	-	-	
Mode	LTE Band 30 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.77	6.81	-	-	
Highest CH	-	-	-	-	



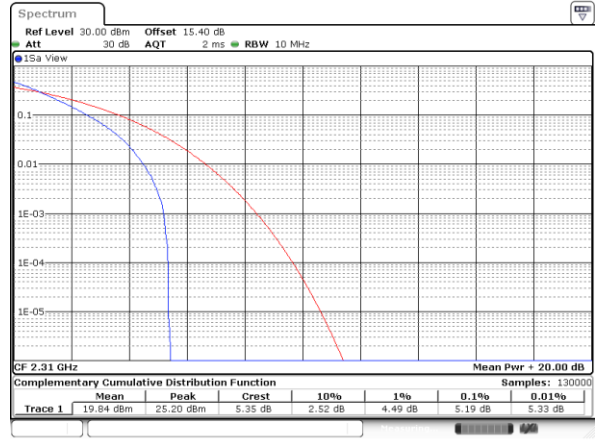
LTE Band 30 / 10MHz / QPSK

Middle Channel / 1RB



Date: 23.FEB.2023 17:55:56

Middle Channel / Full RB



Date: 23.FEB.2023 17:56:121

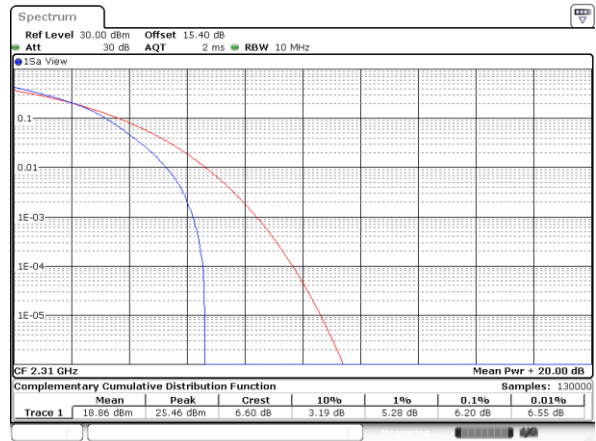
LTE Band 30 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 23.FEB.2023 17:55:06

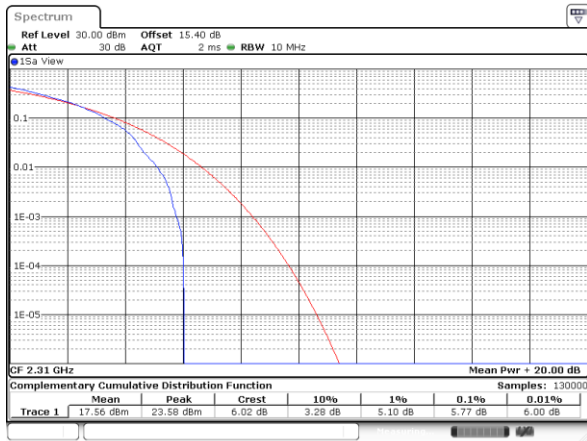
Middle Channel / Full RB



Date: 23.FEB.2023 17:55:31

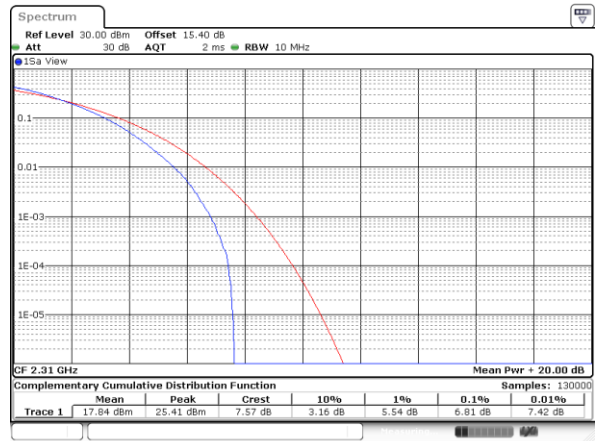
LTE Band 30 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 23.FEB.2023 17:54:17

Middle Channel / Full RB



Date: 23.FEB.2023 17:54:42



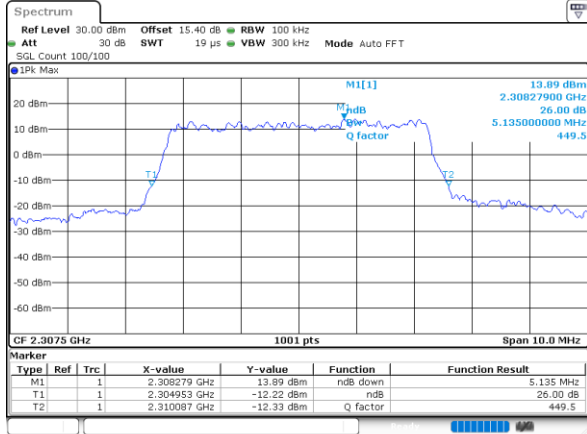
26dB Bandwidth

Mode	LTE Band 30 : 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	-	-	-	-	5.14	4.95	-	-	-	-	-	-
Middle CH	-	-	-	-	4.92	5.08	9.83	9.91	-	-	-	-
Highest CH	-	-	-	-	5.08	5.02	-	-	-	-	-	-
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.05	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.92	-	9.95	-	-	-	-	-
Highest CH	-	-	-	-	5.03	-	-	-	-	-	-	-



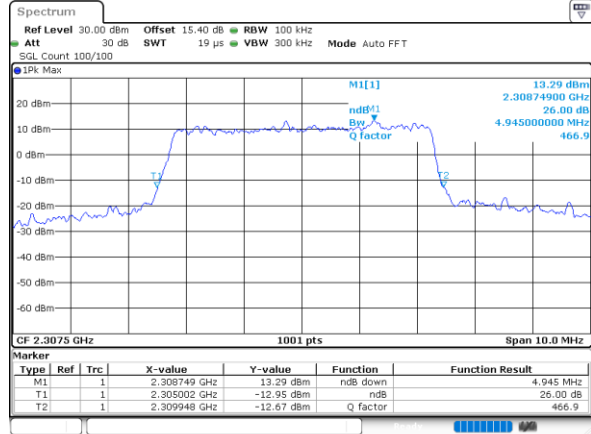
LTE Band 30

Lowest Channel / 5MHz / QPSK



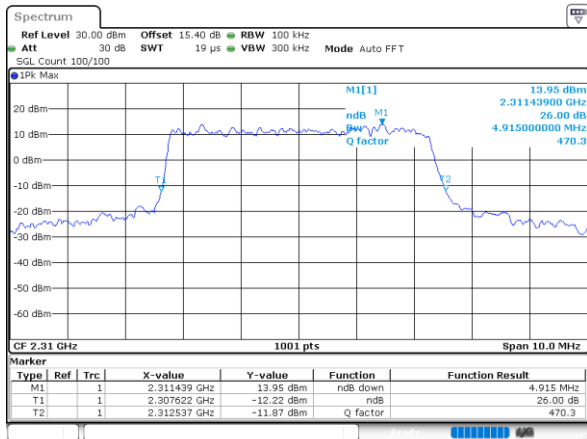
Date: 23.FEB.2023 17:46:06

Lowest Channel / 5MHz / 16QAM



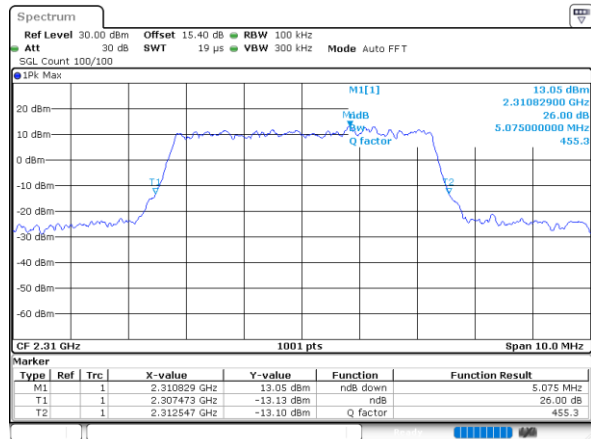
Date: 23.FEB.2023 17:46:30

Middle Channel / 5MHz / QPSK



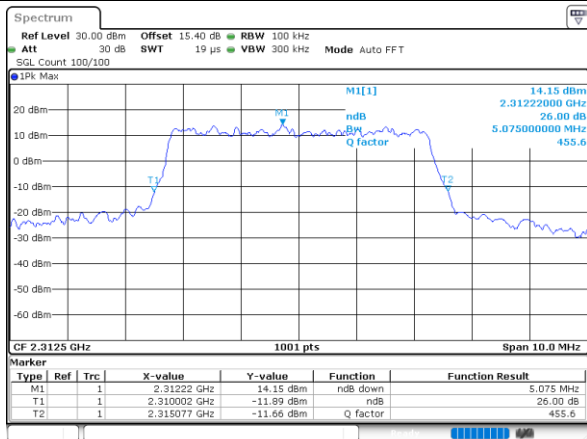
Date: 23.FEB.2023 17:47:41

Middle Channel / 5MHz / 16QAM



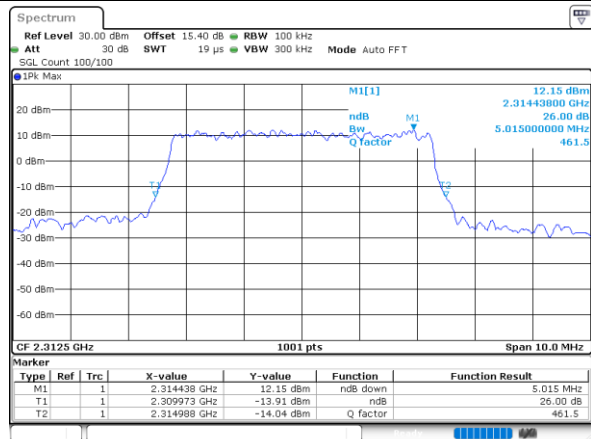
Date: 23.FEB.2023 17:48:04

Highest Channel / 5MHz / QPSK



Date: 23.FEB.2023 17:49:16

Highest Channel / 5MHz / 16QAM



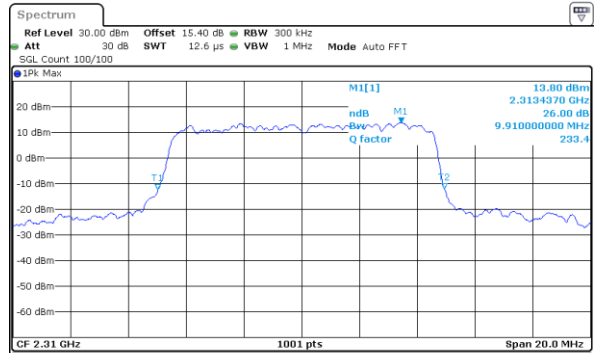
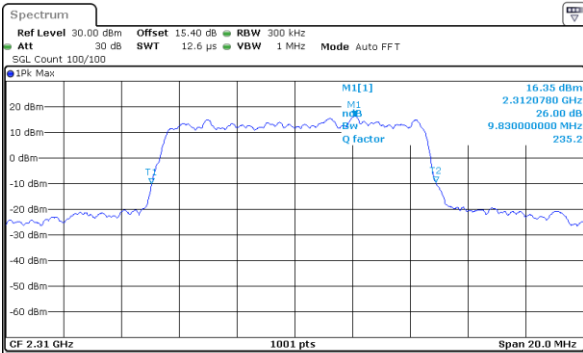
Date: 23.FEB.2023 17:49:40



LTE Band 30

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.312078 GHz	16.35 dBm	ndB down	9.83 MHz
T1	1		2.305045 GHz	-10.03 dBm	ndB	26.00 dB
T2	1		2.314875 GHz	-9.56 dBm	Q factor	235.2

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.313437 GHz	13.80 dBm	ndB down	9.91 MHz
T1	1		2.305025 GHz	-12.41 dBm	ndB	26.00 dB
T2	1		2.314935 GHz	-12.13 dBm	Q factor	233.4

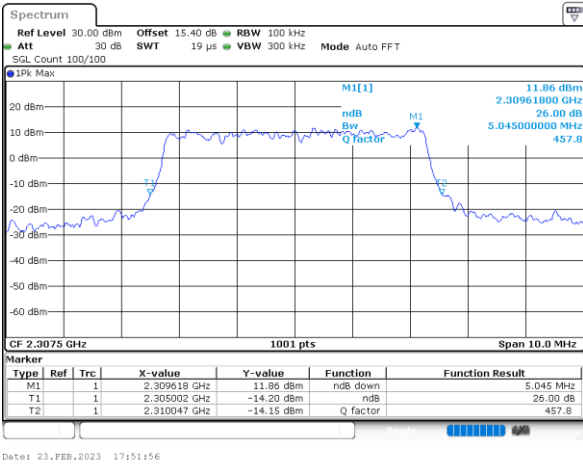
Date: 23.FEB.2023 17:50:52

Date: 23.FEB.2023 17:51:16

LTE Band 30

Lowest Channel / 5MHz / 64QAM

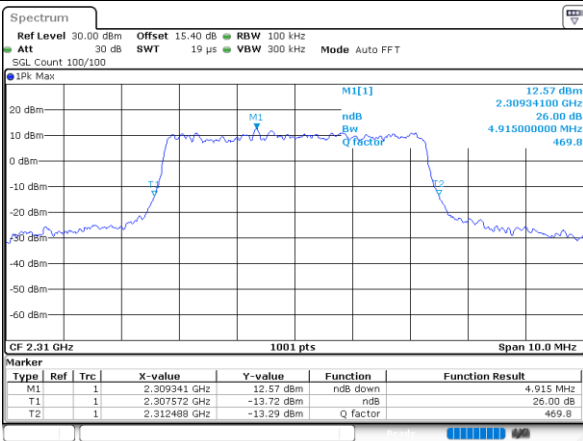
NA



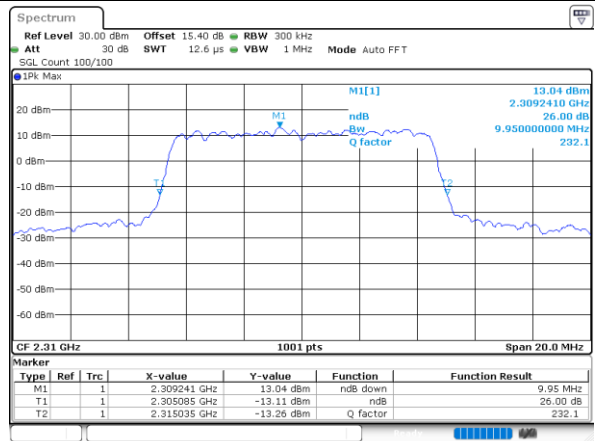
Date: 23.FEB.2023 17:51:56

Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM



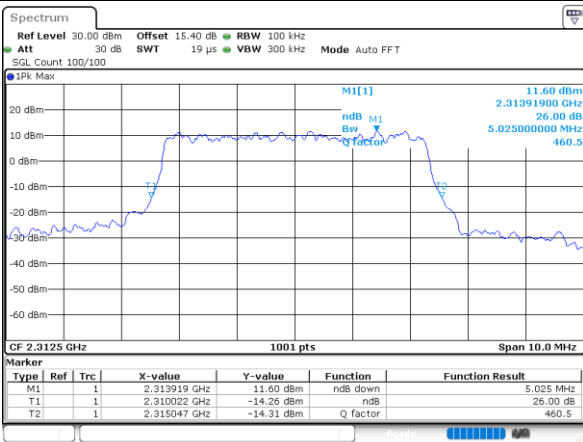
Date: 23.FEB.2023 17:52:34



Date: 23.FEB.2023 17:53:52

Highest Channel / 5MHz / 64QAM

NA



Date: 23.FEB.2023 17:53:12



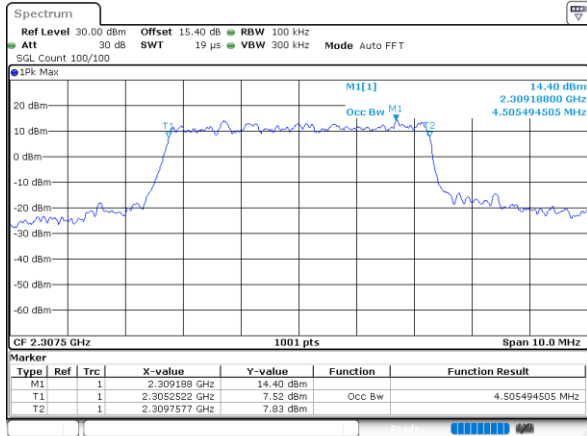
Occupied Bandwidth

Mode	LTE Band 30 : 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	4.51	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	4.49	9.07	9.07	-	-	-	-
Highest CH	-	-	-	-	4.51	4.50	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.53	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-



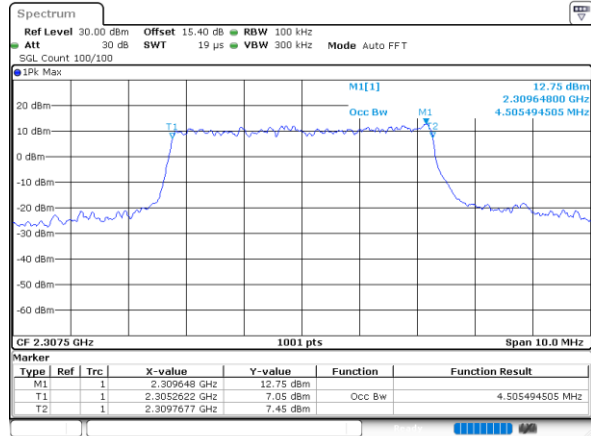
LTE Band 30

Lowest Channel / 5MHz / QPSK



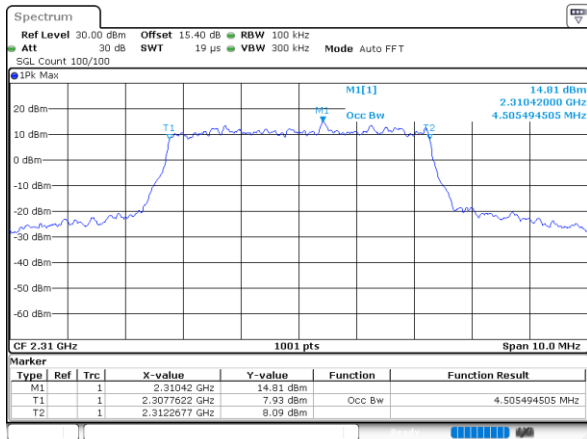
Date: 23.FEB.2023 17:45:10

Lowest Channel / 5MHz / 16QAM



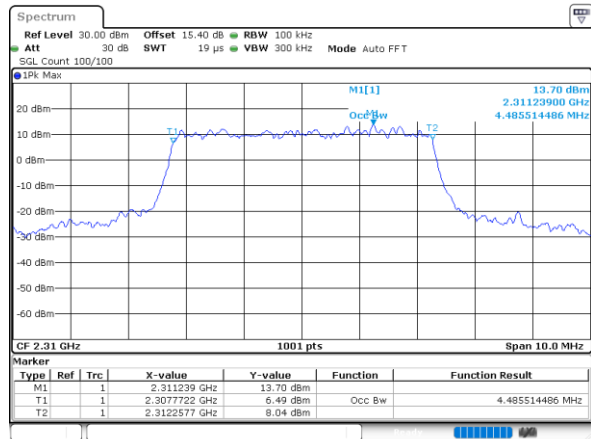
Date: 23.FEB.2023 17:45:12

Middle Channel / 5MHz / QPSK



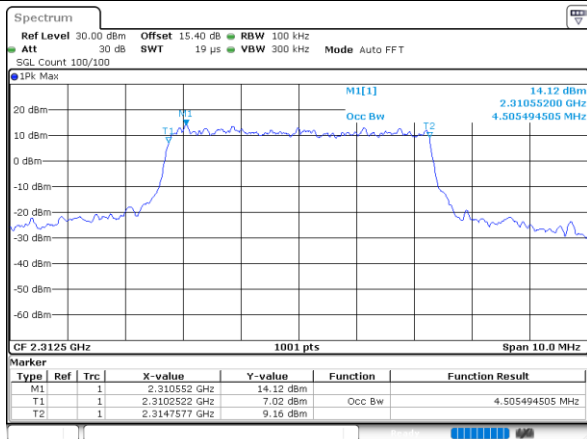
Date: 23.FEB.2023 17:46:54

Middle Channel / 5MHz / 16QAM



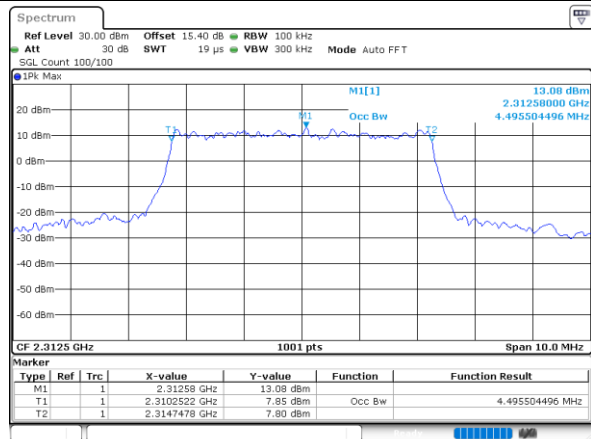
Date: 23.FEB.2023 17:47:17

Highest Channel / 5MHz / QPSK

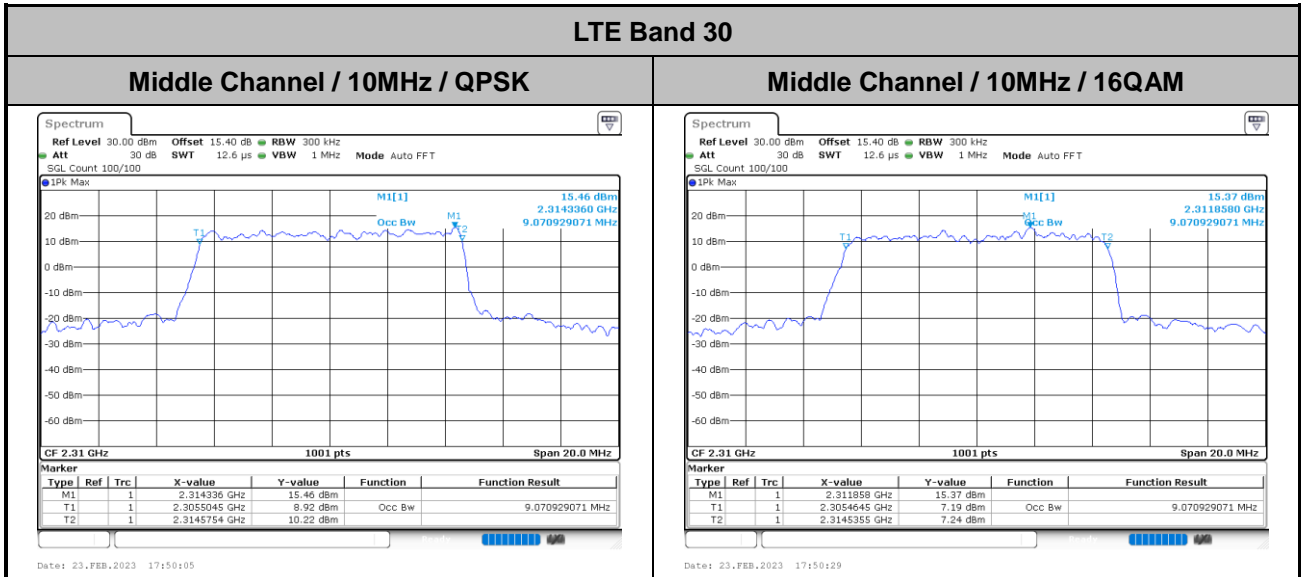


Date: 23.FEB.2023 17:48:20

Highest Channel / 5MHz / 16QAM



Date: 23.FEB.2023 17:48:52

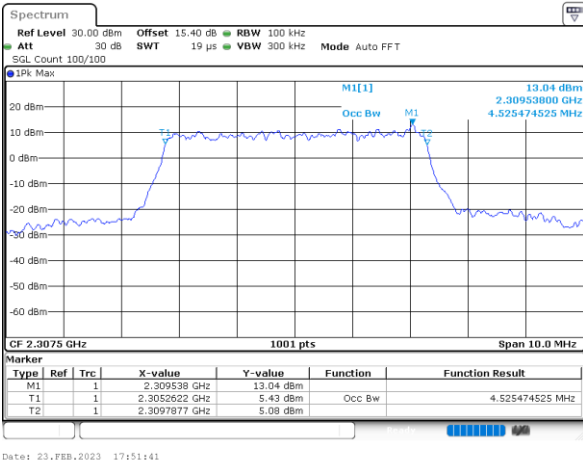




LTE Band 30

Lowest Channel / 5MHz / 64QAM

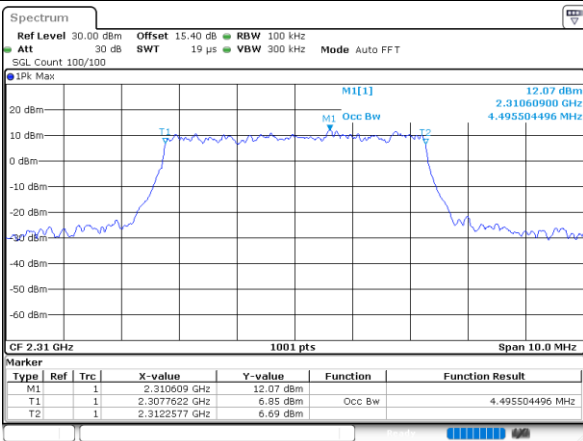
NA



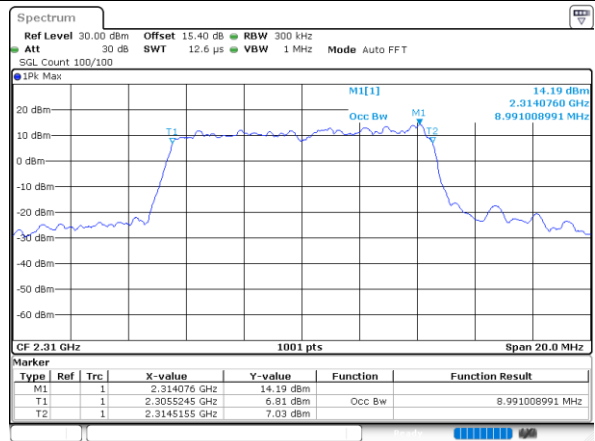
Date: 23.FEB.2023 17:51:41

Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM



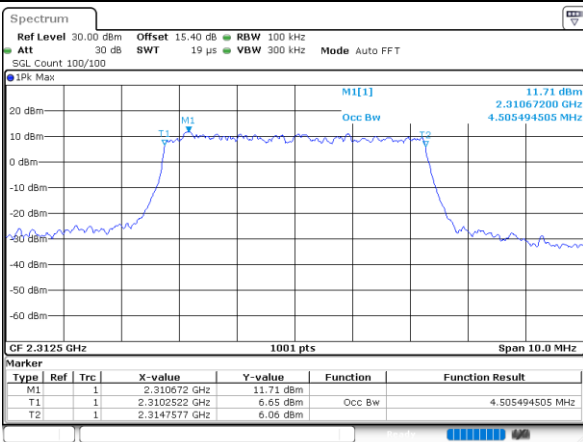
Date: 23.FEB.2023 17:52:20



Date: 23.FEB.2023 17:53:08

Highest Channel / 5MHz / 64QAM

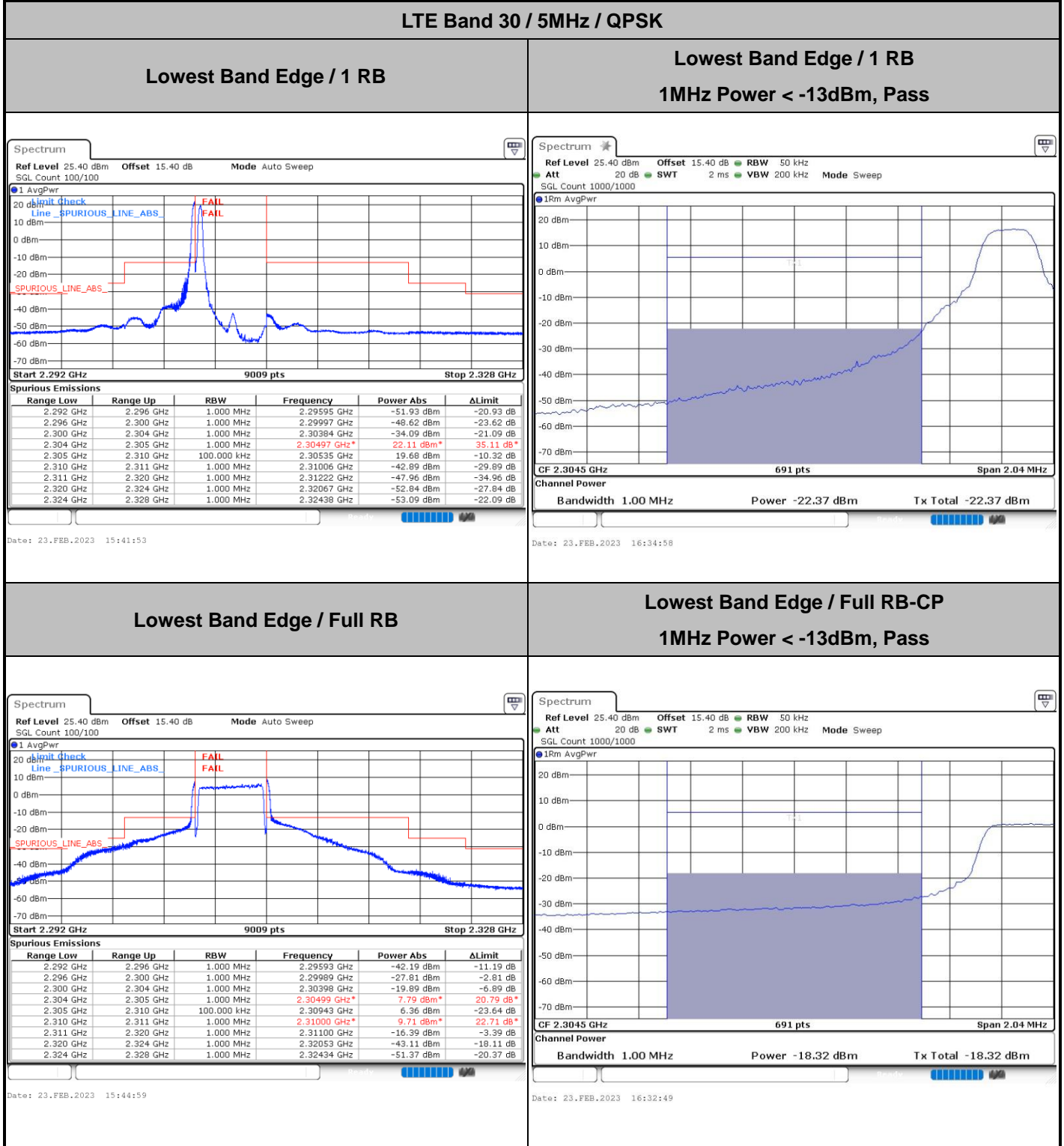
NA



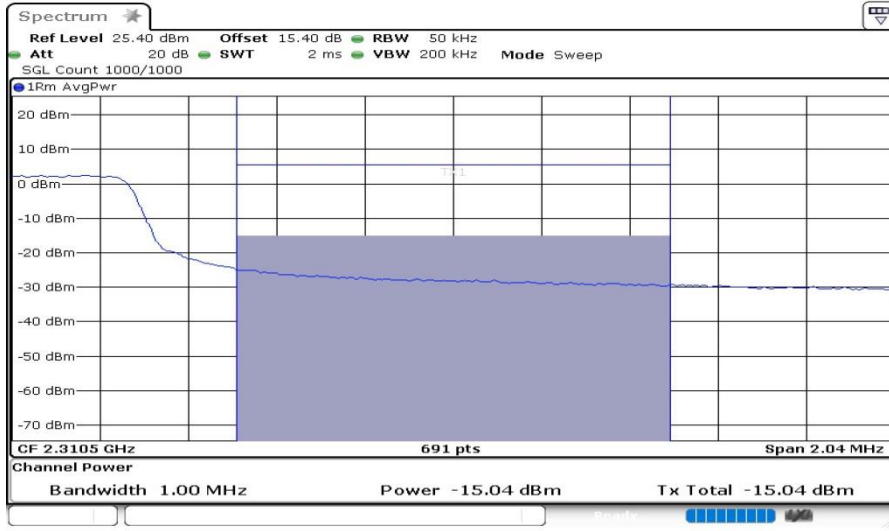
Date: 23.FEB.2023 17:52:58



Conducted Band Edge



Lowest Band Edge / Full RB
1MHz Power < -13dBm, Pass

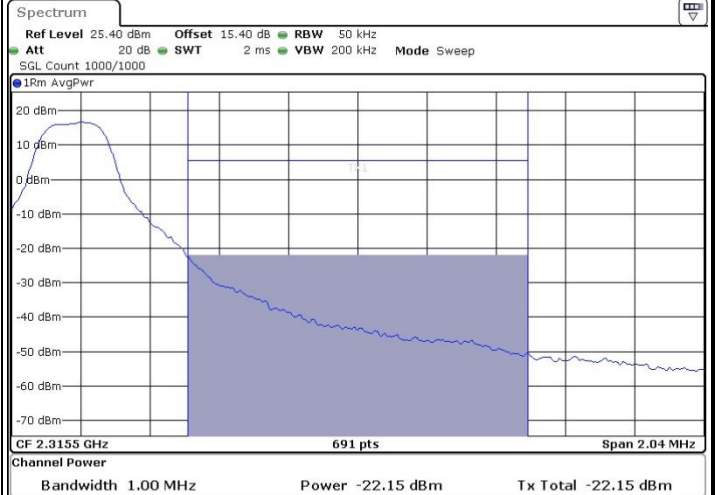
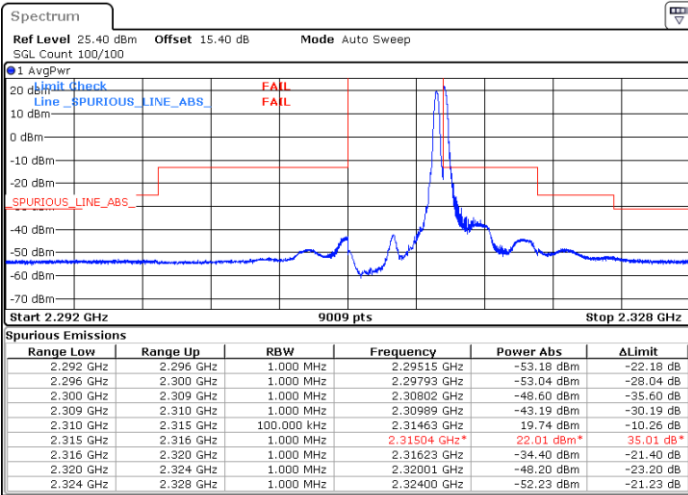




LTE Band 30 / 5MHz / QPSK

Highest Band Edge / 1 RBmax

Highest Band Edge / 1 RBmax
1MHz Power < -13dBm, Pass

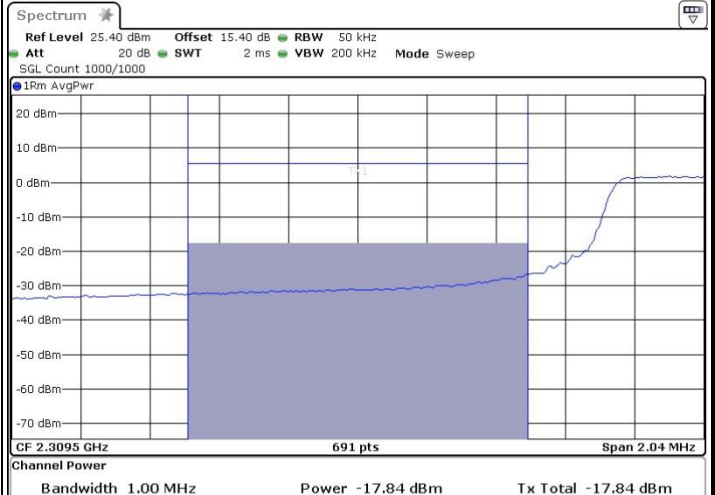
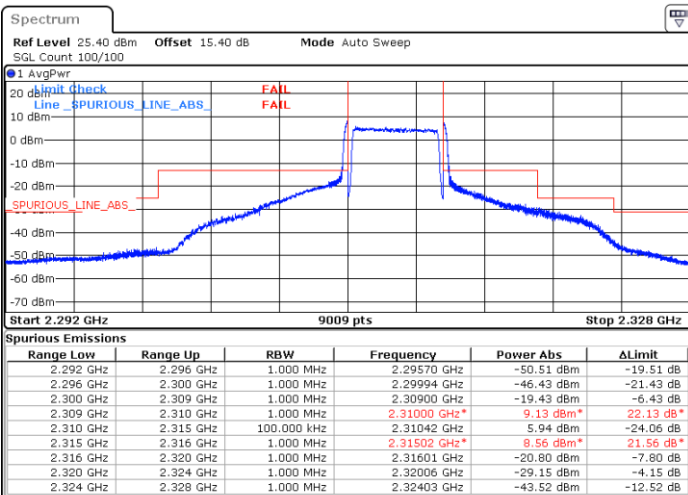


Date: 23.FEB.2023 15:48:05

Date: 23.FEB.2023 17:02:07

Highest Band Edge / Full RB

Highest Band Edge / Full RB
1MHz Power < -13dBm, Pass

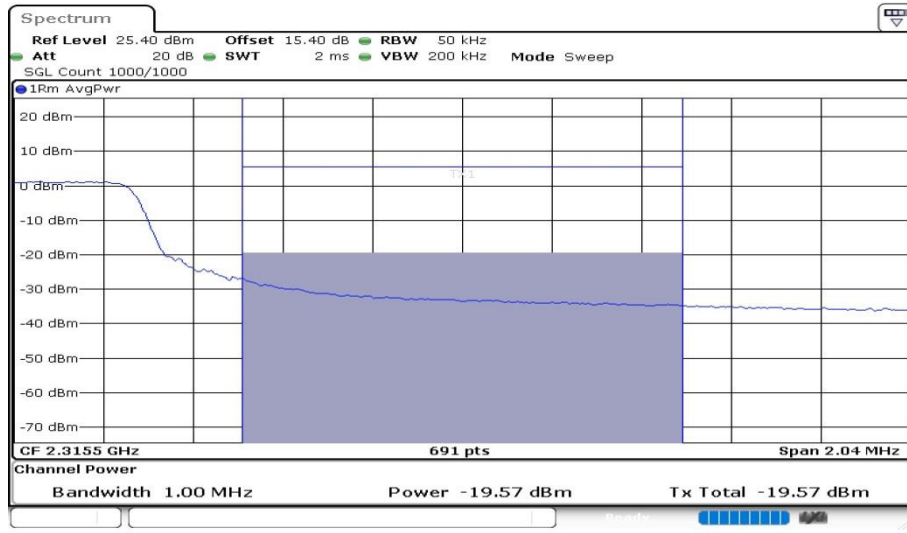


Date: 23.FEB.2023 15:51:10

Date: 23.FEB.2023 17:03:38



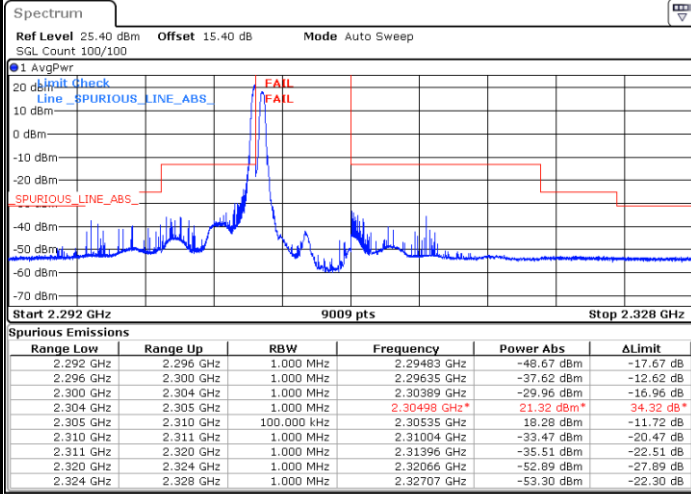
Highest Band Edge / Full RB
1MHz Power < -13dBm, Pass





LTE Band 30 / 5MHz / 16QAM

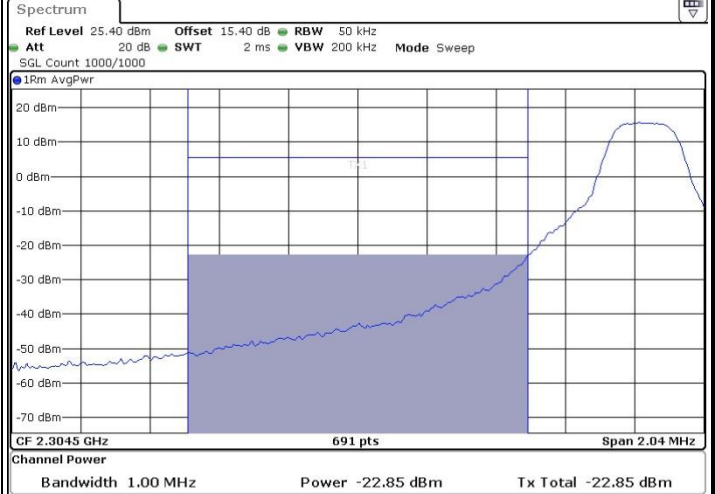
Lowest Band Edge / 1RB



Date: 23.FEB.2023 15:43:26

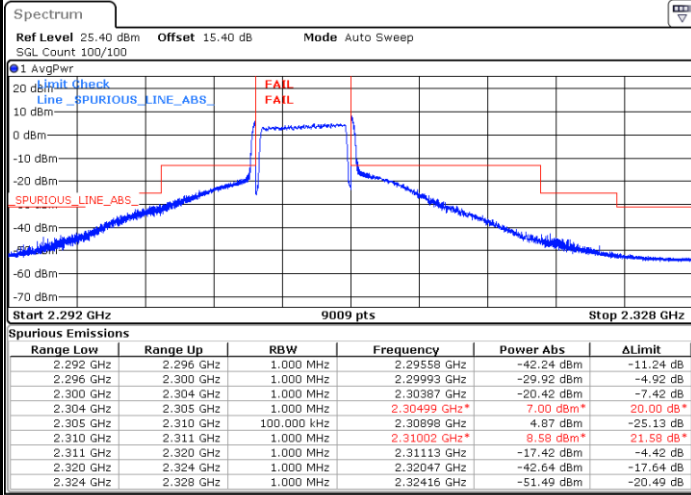
Lowest Band Edge / 1RB

1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 16:35:33

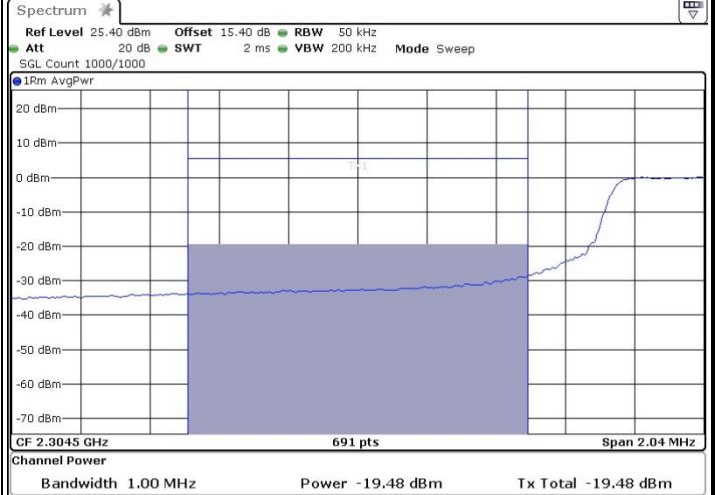
Lowest Band Edge / Full RB



Date: 23.FEB.2023 15:46:32

Lowest Band Edge / Full RB

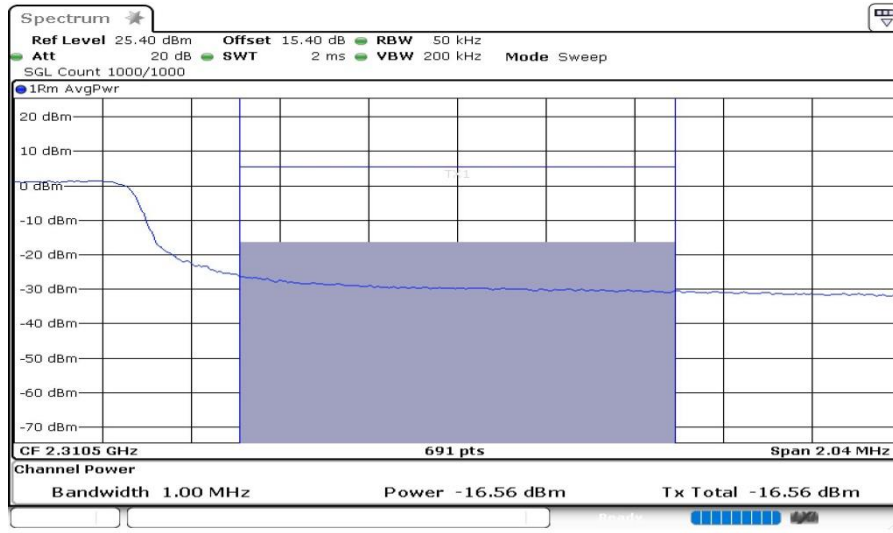
1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 16:31:37



Lowest Band Edge / Full RB
1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 16:31:19

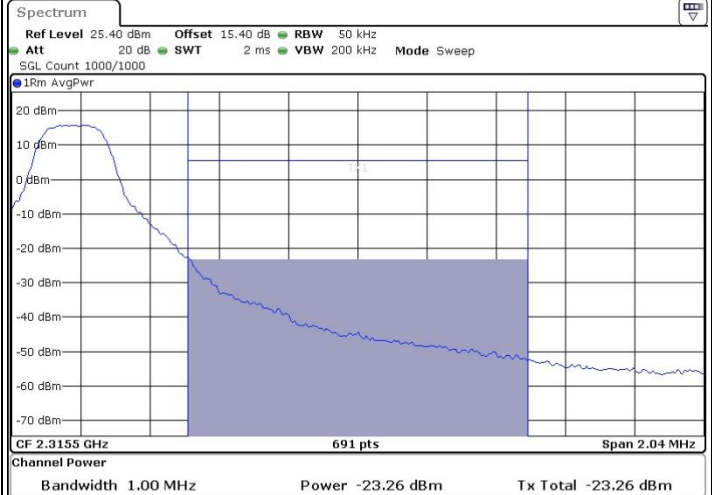
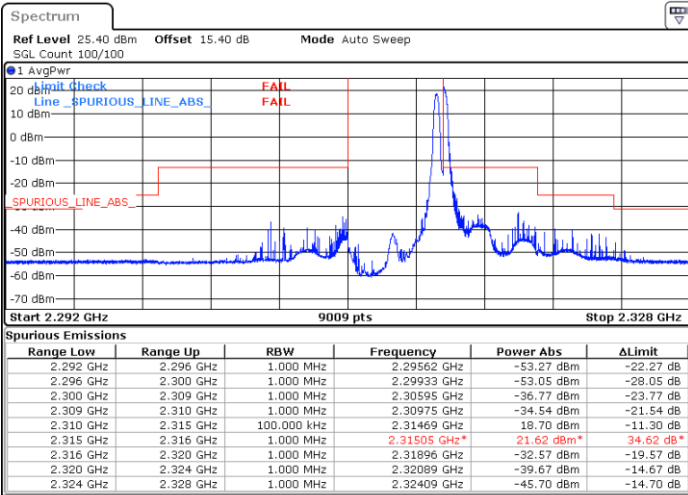


LTE Band 30 / 5MHz / 16QAM

Highest Band Edge /1RBmax

Highest Band Edge /1RBmax

1MHz Power < -13dBm, Pass



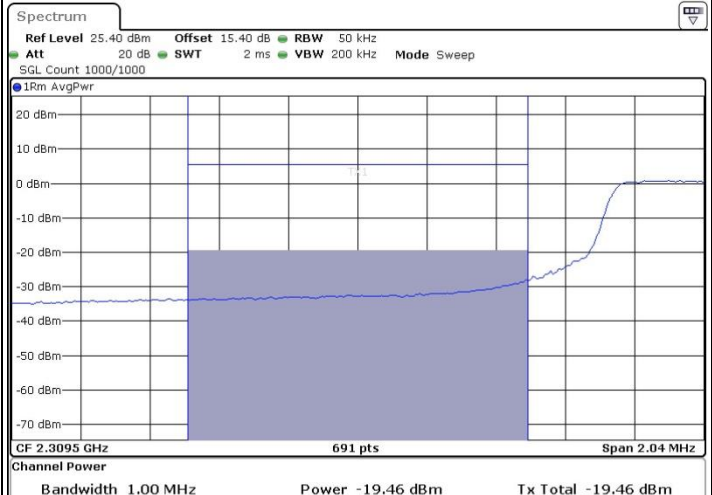
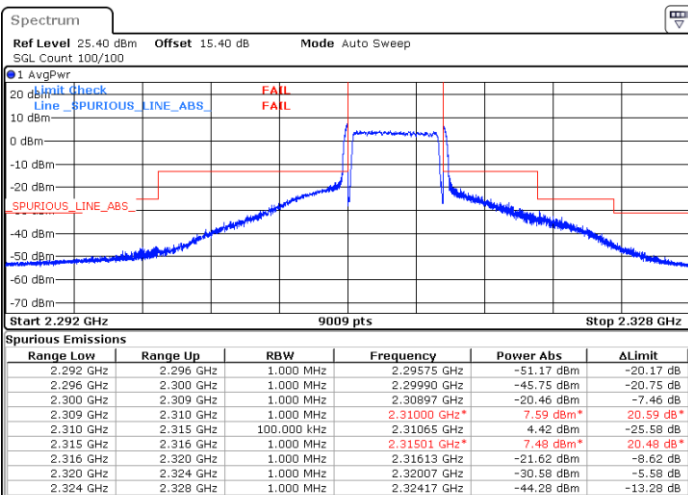
Date: 23.FEB.2023 15:49:37

Date: 23.FEB.2023 17:01:37

Highest Band Edge / Full RB

Highest Band Edge / Full RB

1MHz Power < -13dBm, Pass

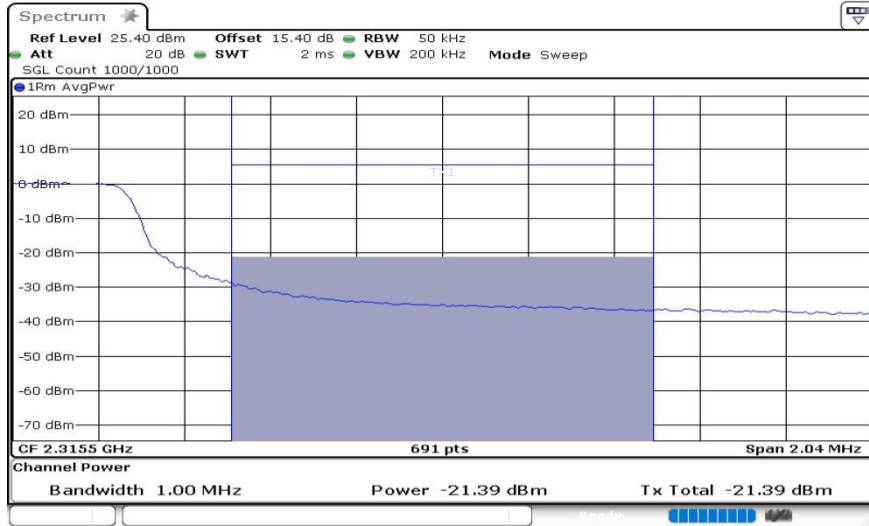


Date: 23.FEB.2023 15:52:43

Date: 23.FEB.2023 17:04:39



Highest Band Edge / Full RB
1MHz Power < -13dBm, Pass

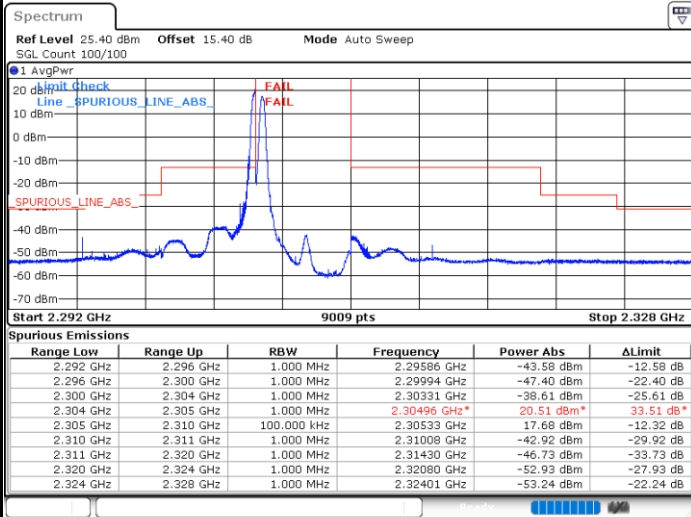


Date: 23.FEB.2023 17:04:59



LTE Band 30 / 5MHz / 64QAM

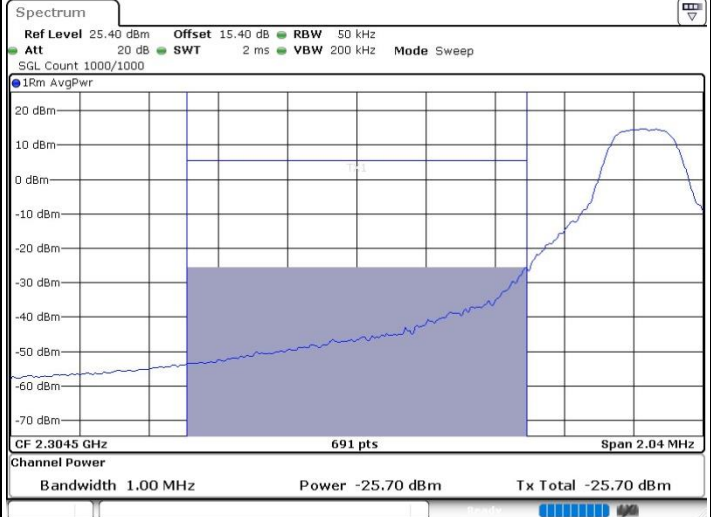
Lowest Band Edge / 1RB



Date: 23.FEB.2023 16:11:41

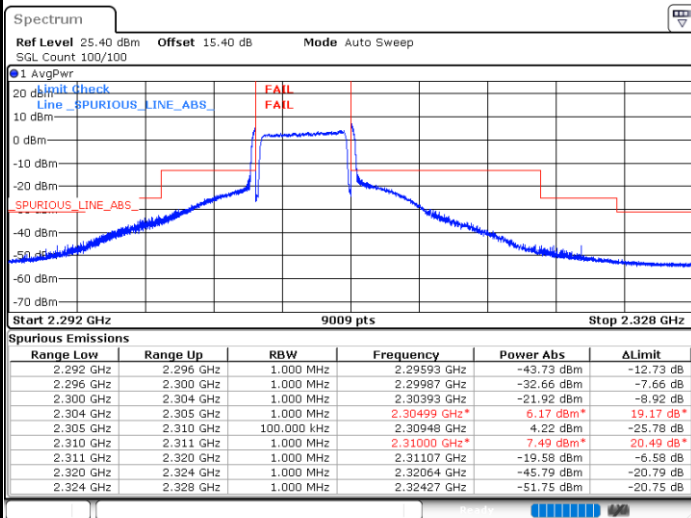
Lowest Band Edge / 1RB

1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 16:36:16

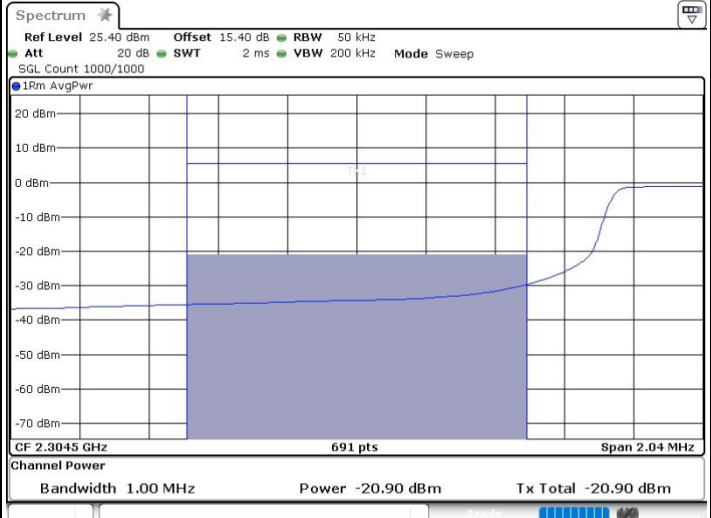
Lowest Band Edge / Full RB



Date: 23.FEB.2023 16:13:06

Lowest Band Edge / Full RB

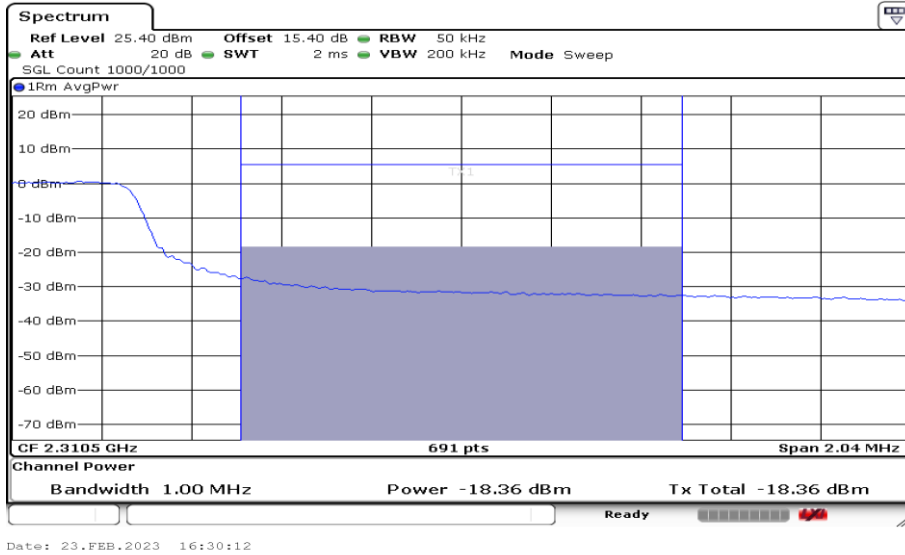
1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 16:29:27



Lowest Band Edge / Full RB
1MHz Power < -13dBm, Pass



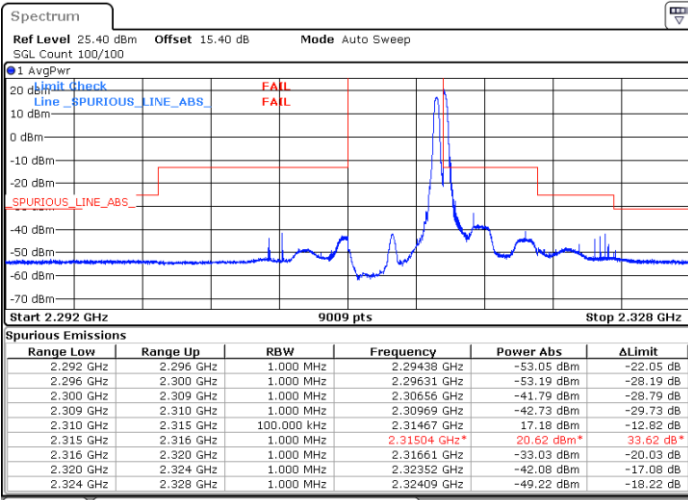


LTE Band 30 / 5MHz / 64QAM

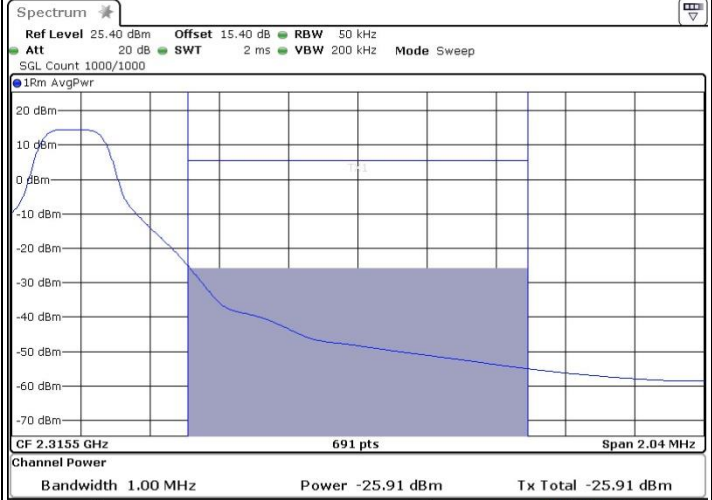
Highest Band Edge / 1 RBmax

Highest Band Edge / 1 RBmax

1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 16:14:57

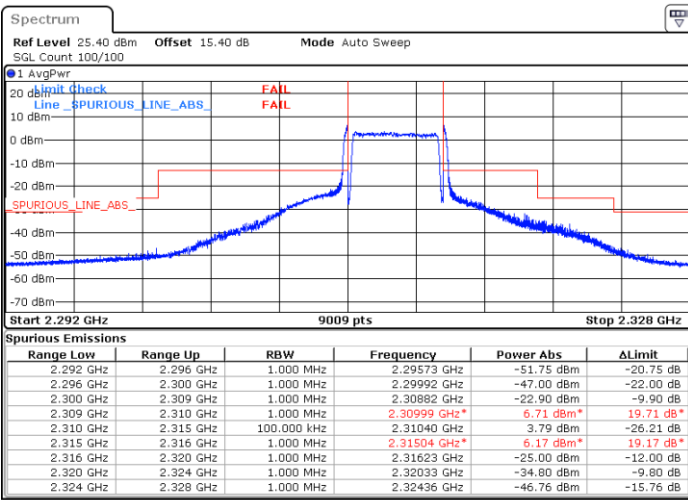


Date: 23.FEB.2023 17:01:08

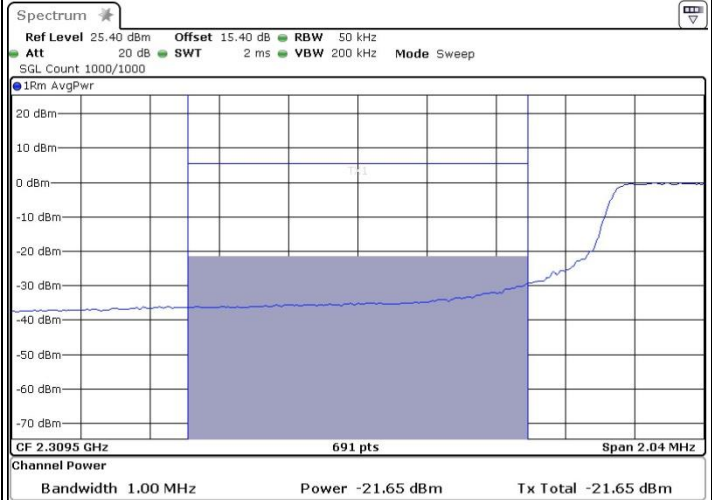
Highest Band Edge / Full RB

Highest Band Edge / Full RB

1MHz Power < -13dBm, Pass



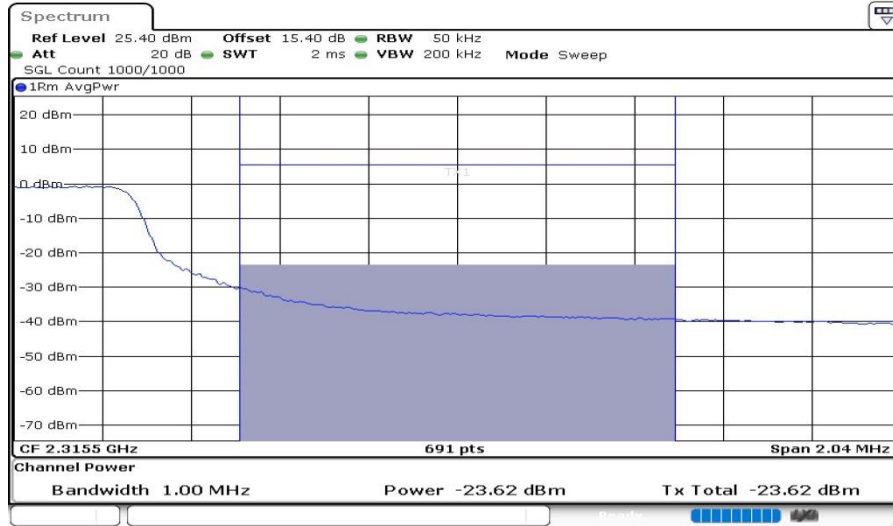
Date: 23.FEB.2023 16:14:23



Date: 23.FEB.2023 17:05:53



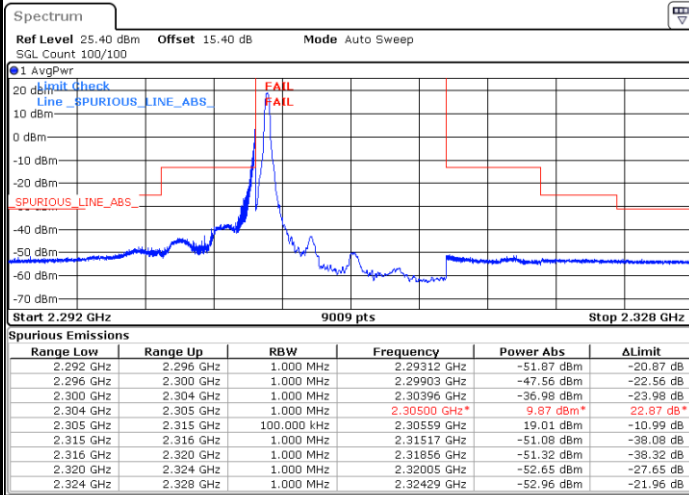
Highest Band Edge / Full RB
1MHz Power < -13dBm, Pass





LTE Band 30 / 10MHz / QPSK

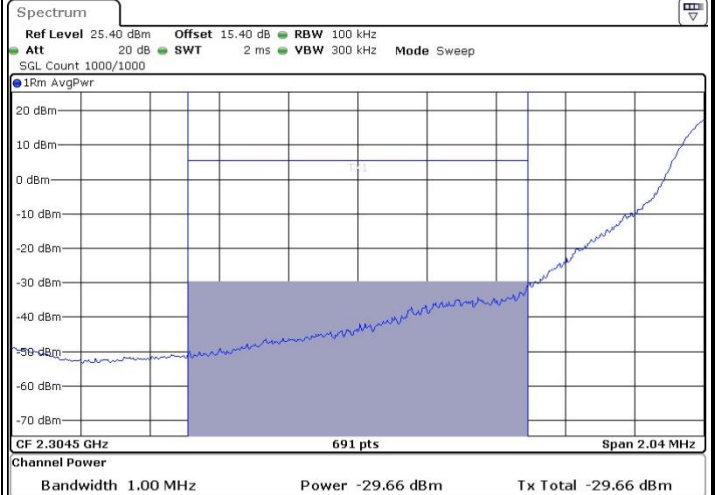
Highest Band Edge / 1 RB



Date: 23.FEB.2023 15:54:18

Highest Band Edge / 1 RB

1MHz Power < -13dBm, Pass

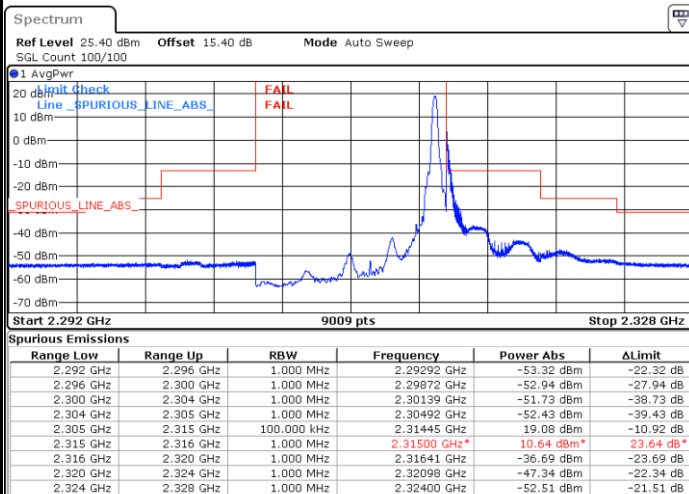


Date: 23.FEB.2023 17:23:23

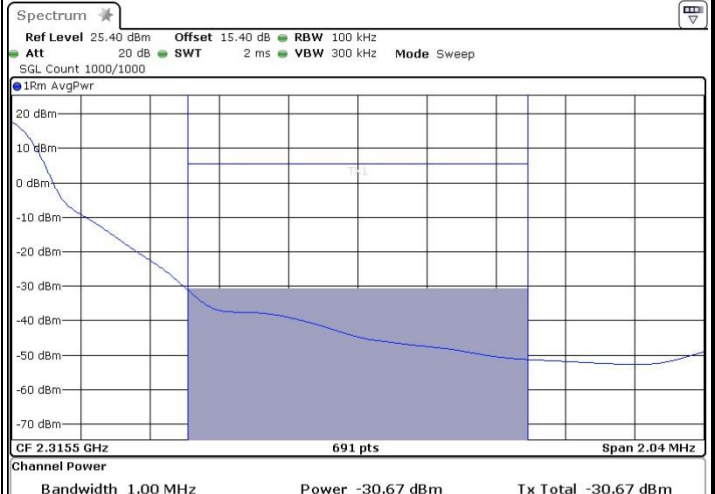
Highest Band Edge / 1 RBmax

Highest Band Edge / 1 RBmax

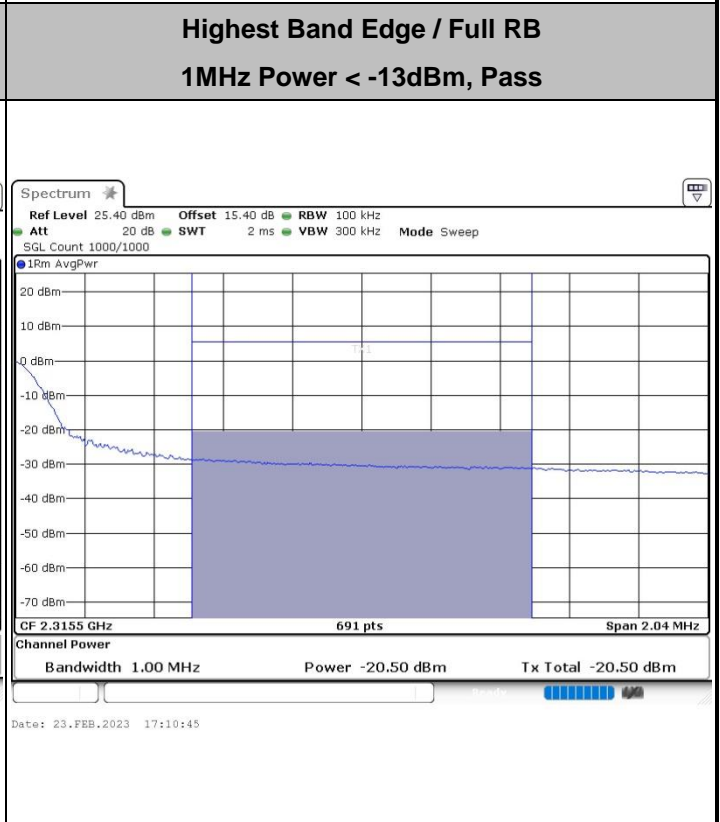
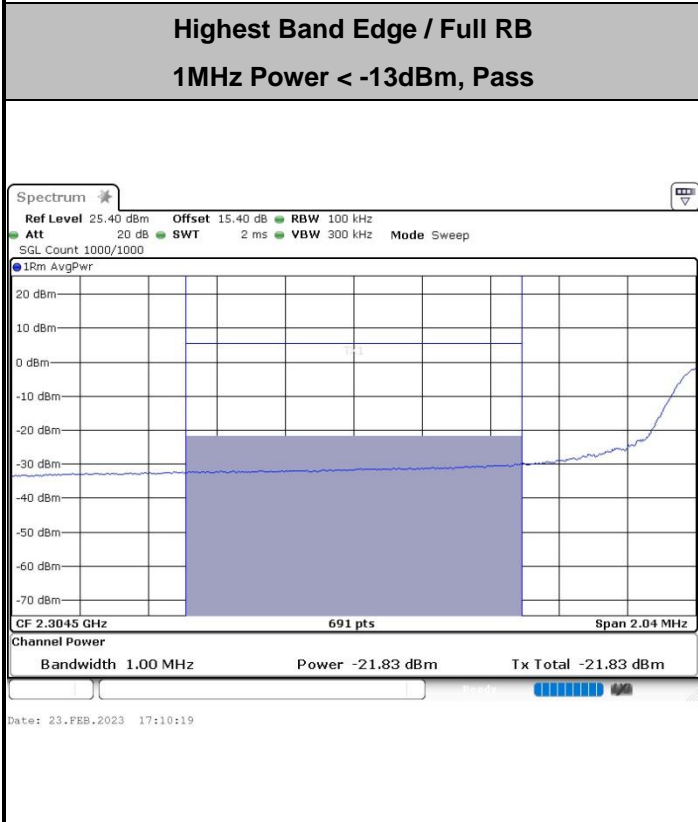
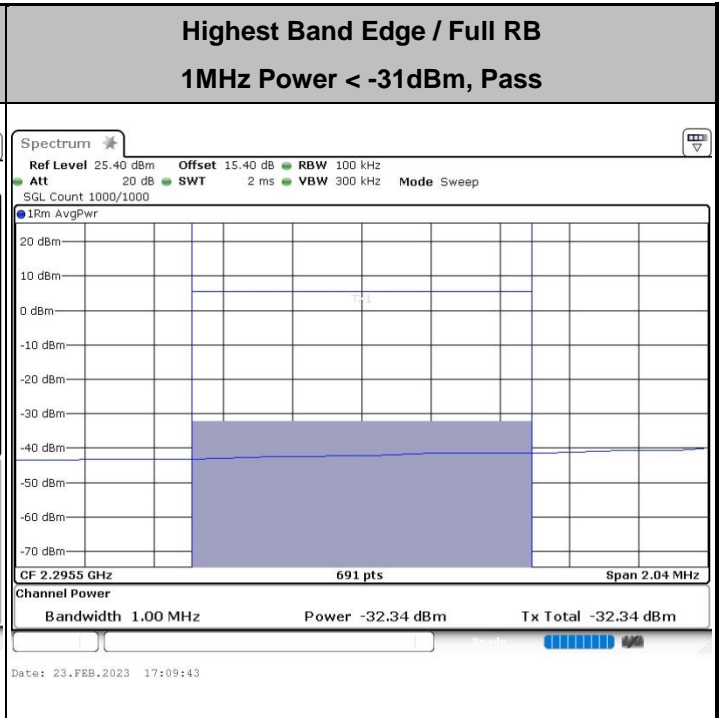
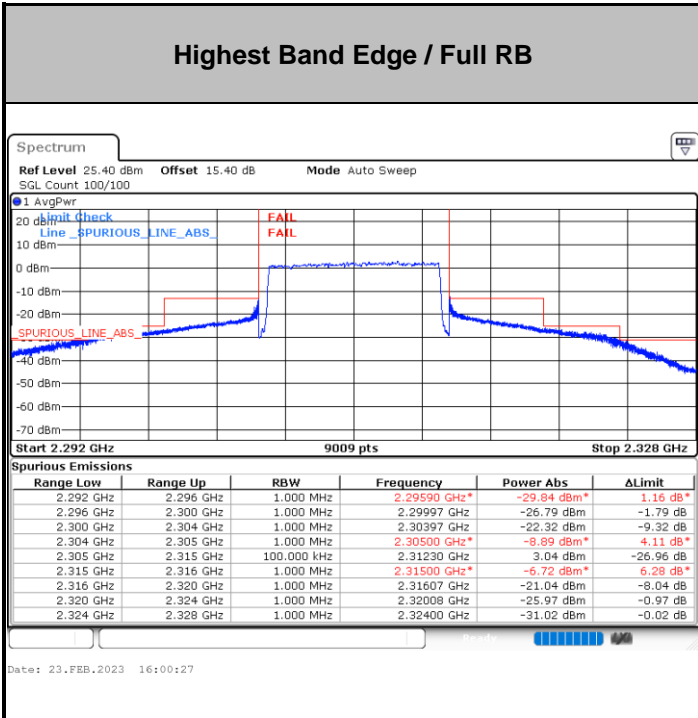
1MHz Power < -13dBm, Pass

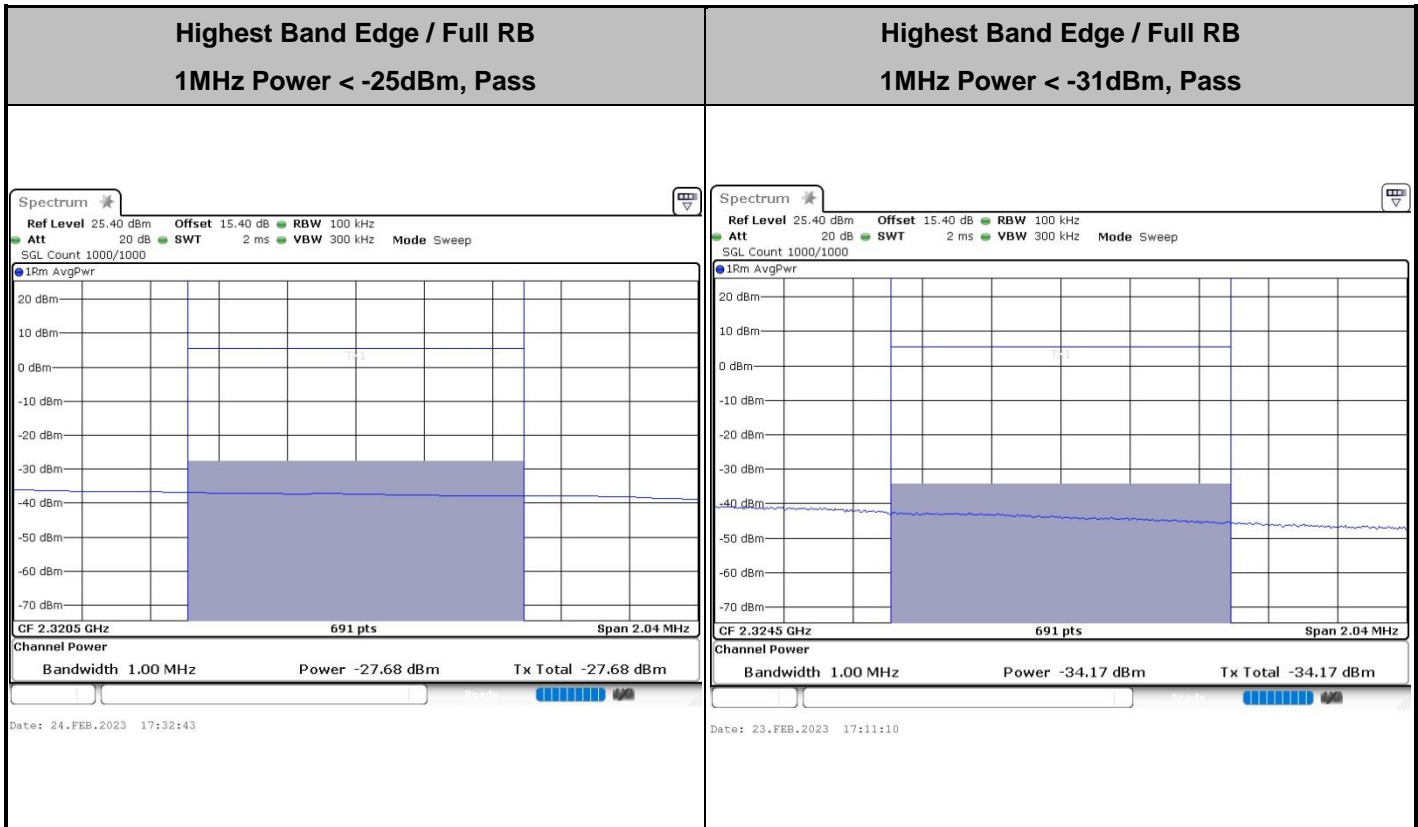


Date: 23.FEB.2023 15:57:22



Date: 23.FEB.2023 17:19:55

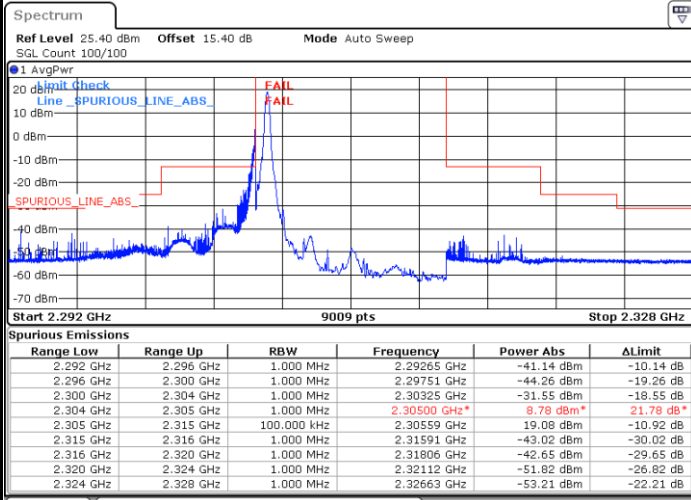






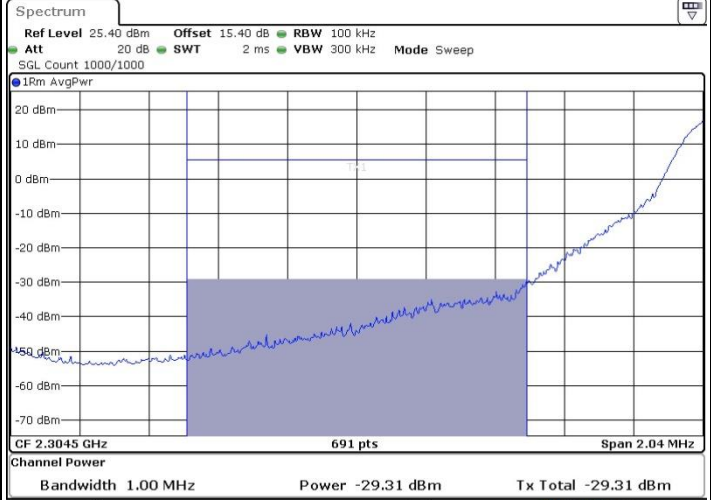
LTE Band 30 / 10MHz / 16QAM

Highest Band Edge / 1 RB



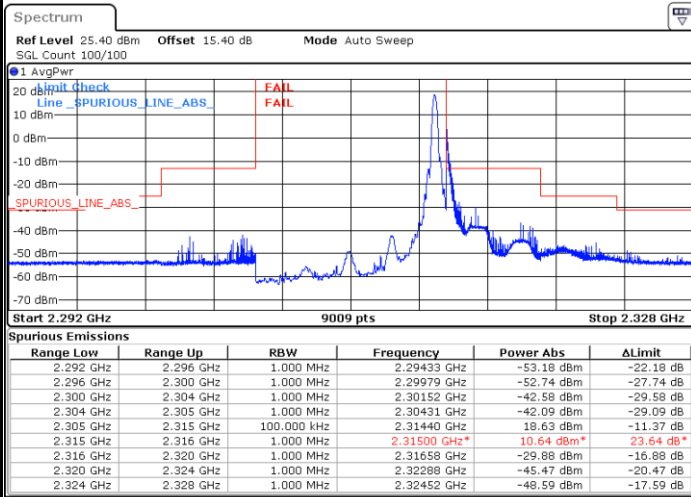
Date: 23.FEB.2023 15:55:50

Highest Band Edge / 1 RB
1MHz Power < -13dBm, Pass



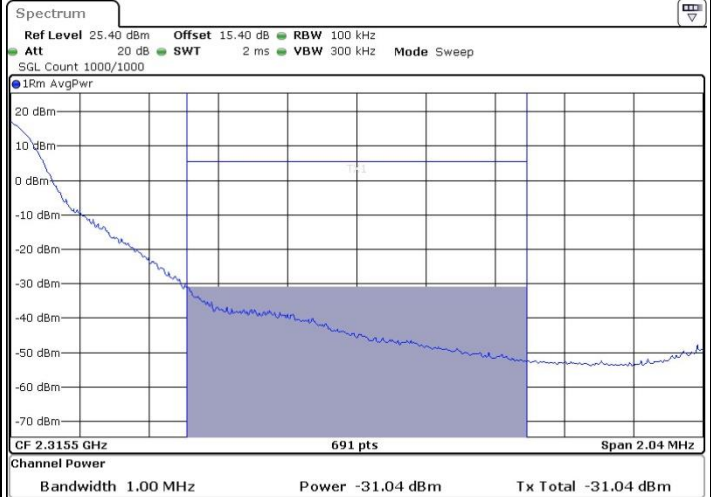
Date: 23.FEB.2023 17:23:01

Highest Band Edge / 1 RBmax



Date: 23.FEB.2023 15:58:54

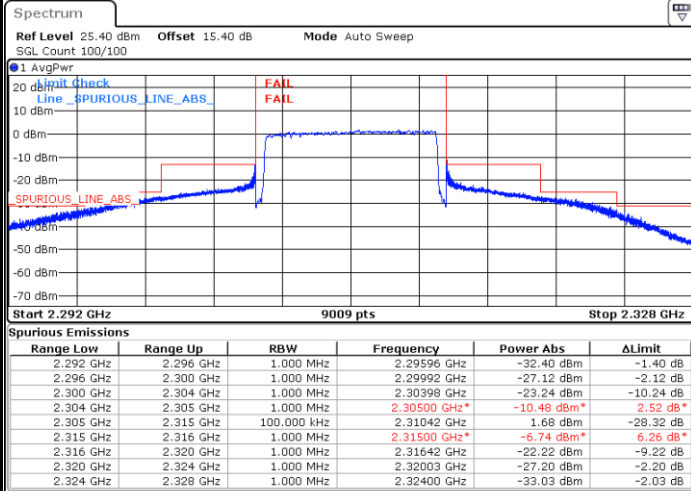
Highest Band Edge / 1 RBmax
1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 17:20:34

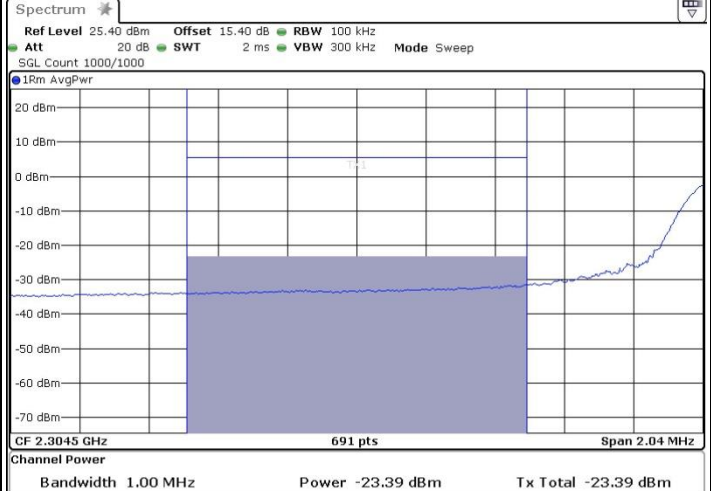


Highest Band Edge / Full RB



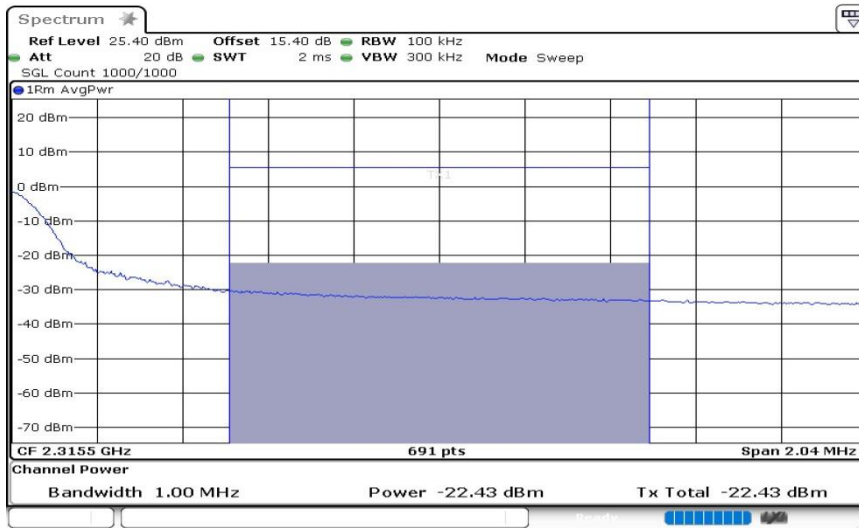
Date: 23.FEB.2023 16:01:59

Highest Band Edge / Full RB
1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 17:13:05

Highest Band Edge / Full RB
1MHz Power < -13dBm, Pass



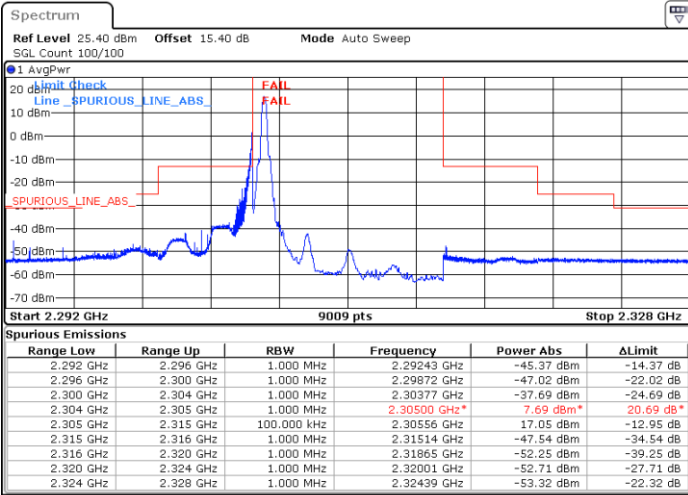
Date: 23.FEB.2023 17:13:33



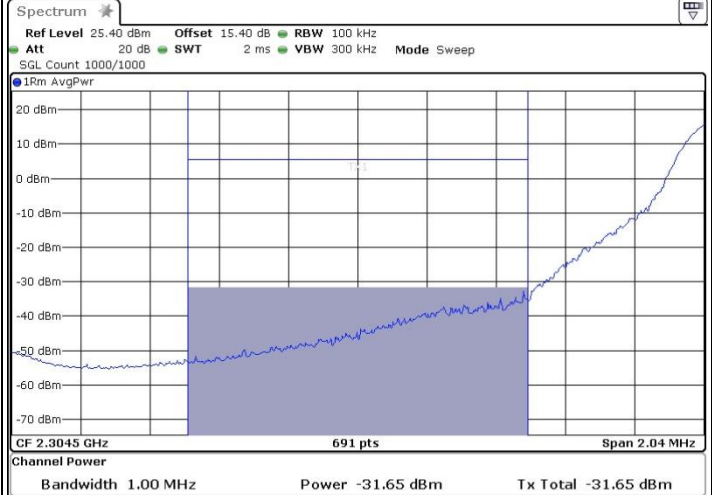
LTE Band 30 / 10MHz / 64QAM

Highest Band Edge / 1 RB

Highest Band Edge / 1 RB
1MHz Power < -13dBm, Pass



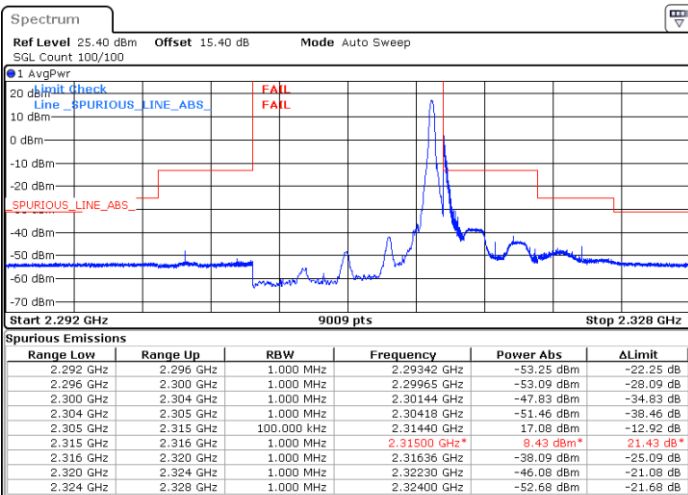
Date: 23.FEB.2023 16:07:46



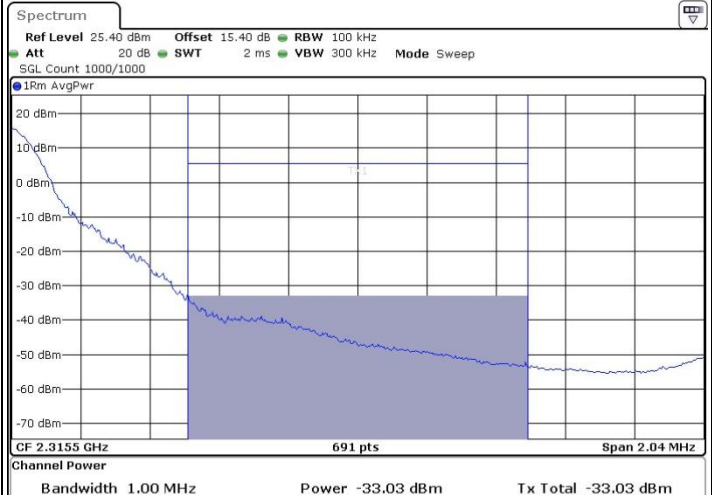
Date: 23.FEB.2023 17:22:32

Highest Band Edge / 1 RBmax

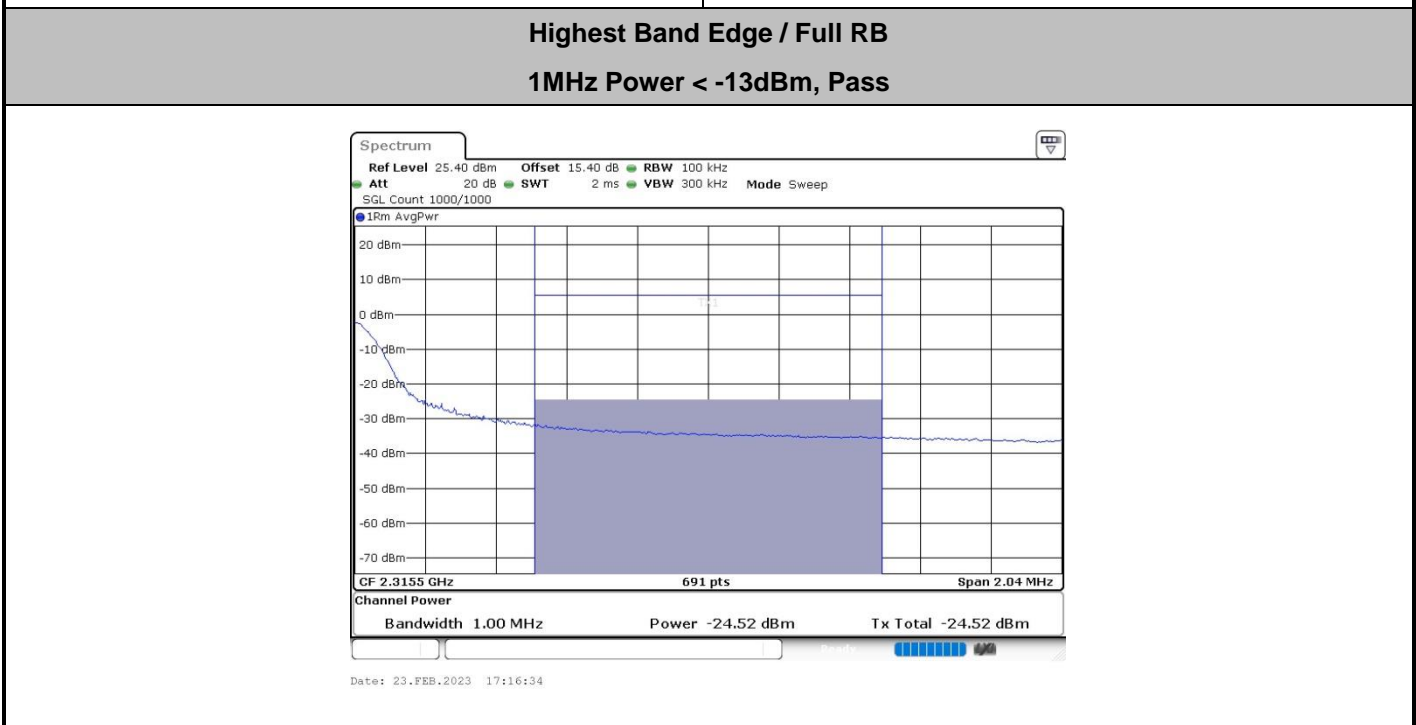
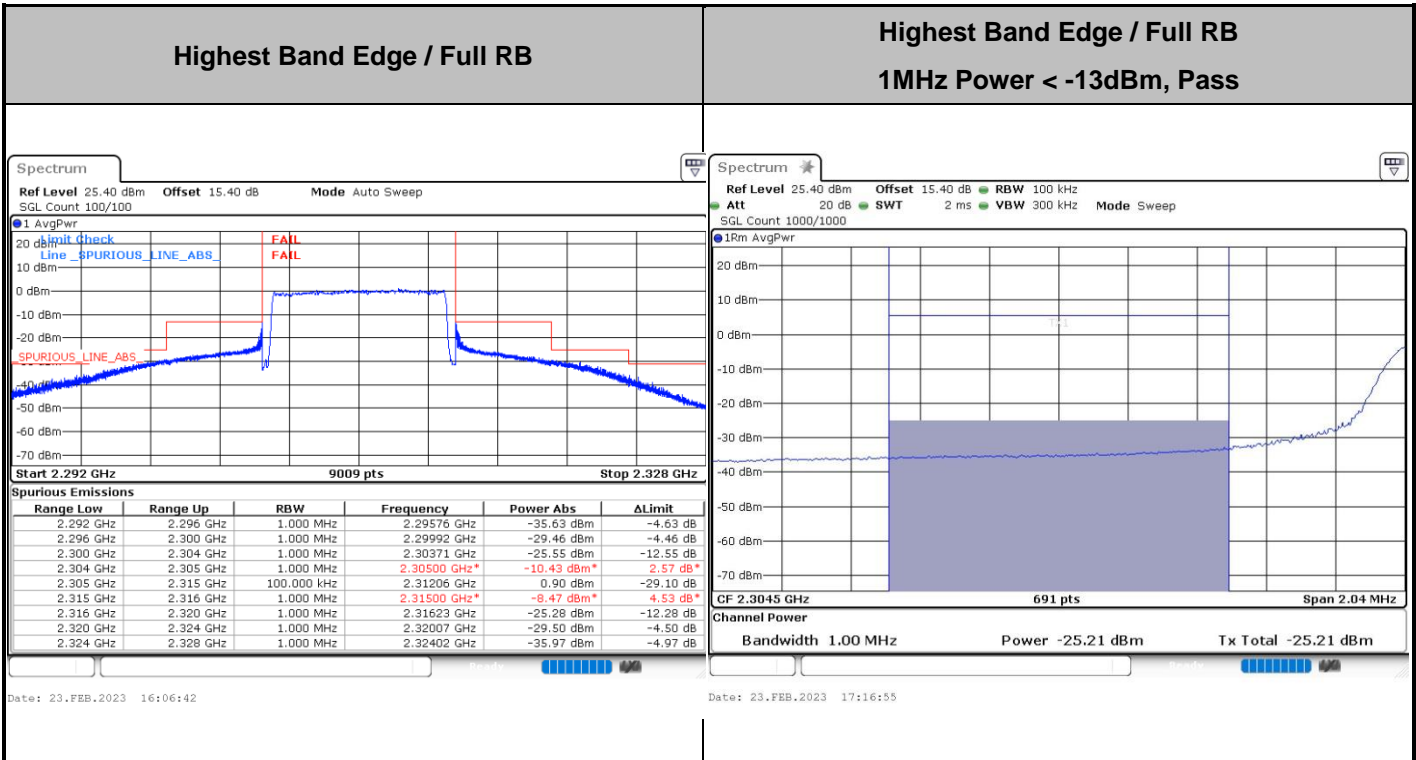
Highest Band Edge / 1 RBmax
1MHz Power < -13dBm, Pass



Date: 23.FEB.2023 16:08:32



Date: 23.FEB.2023 17:21:12





Conducted Spurious Emission

