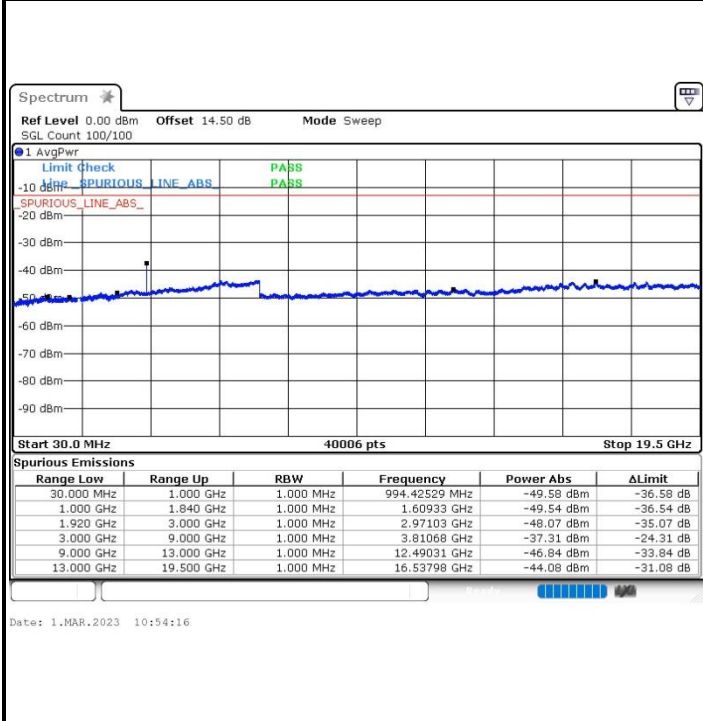


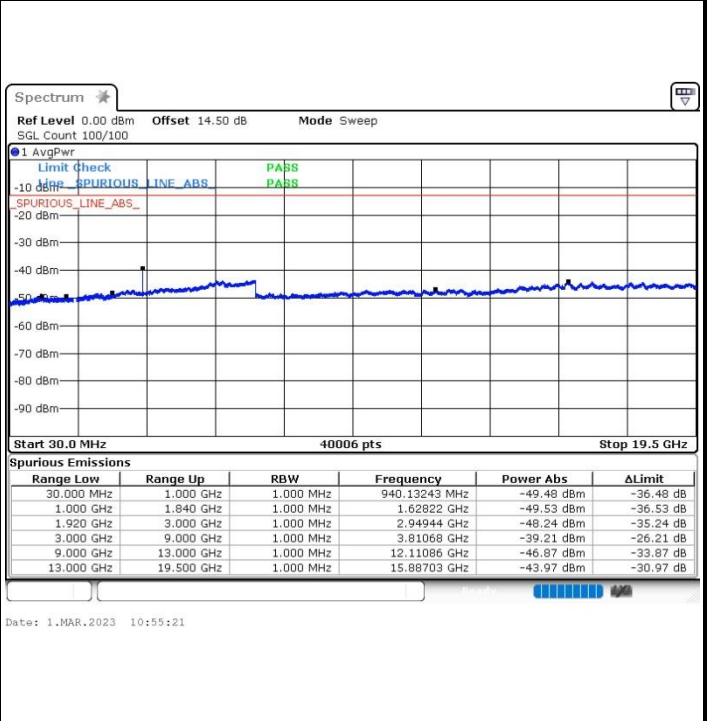


LTE Band 2 / 5MHz

Highest Channel / QPSK

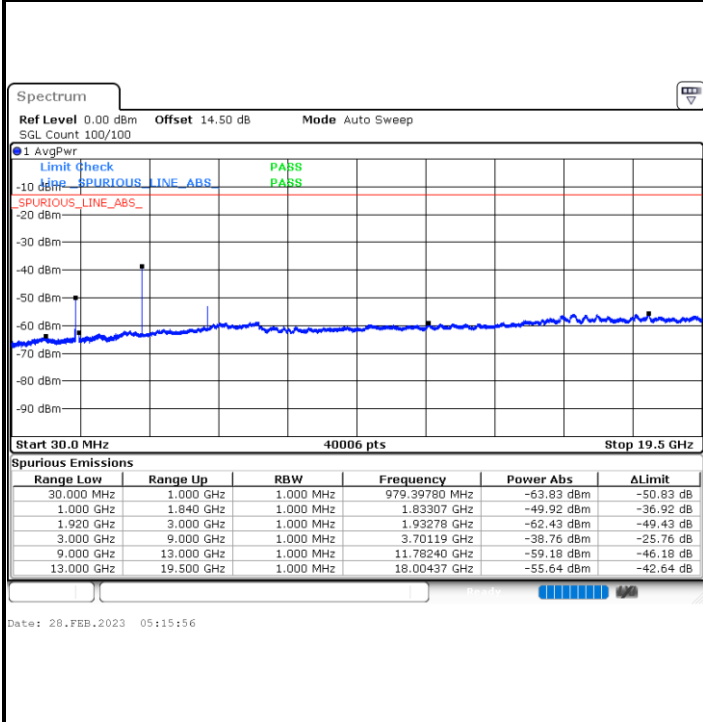


Highest Channel / 16QAM

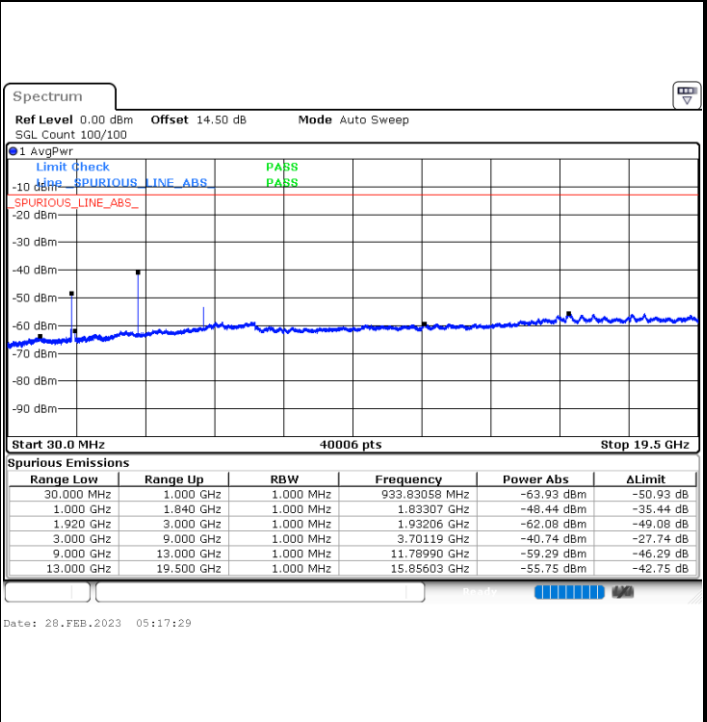


LTE Band 2 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

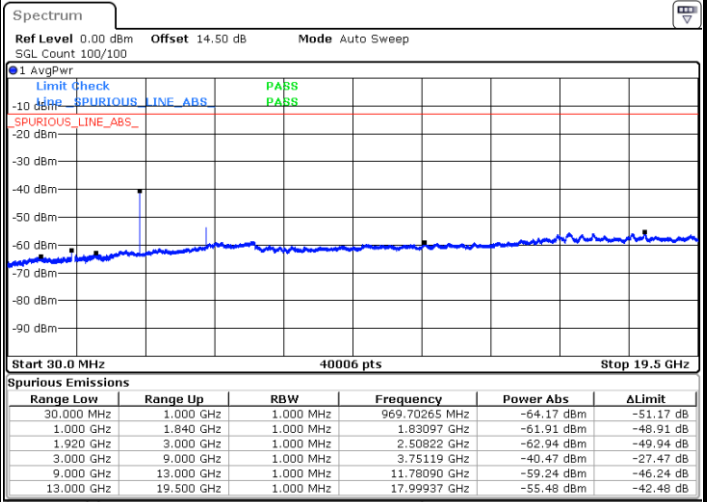
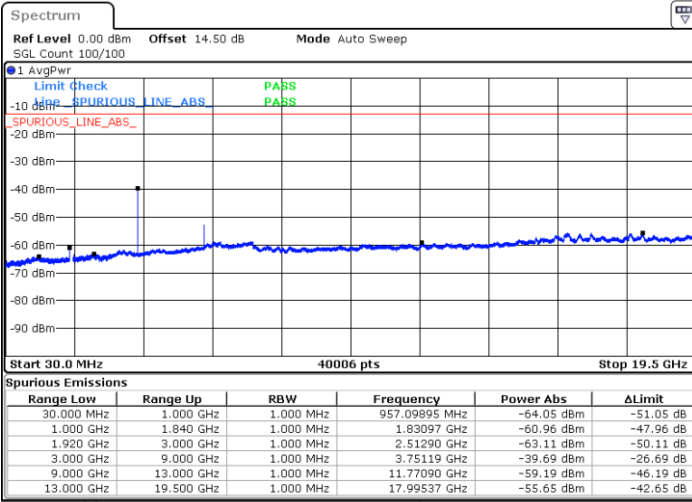




LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

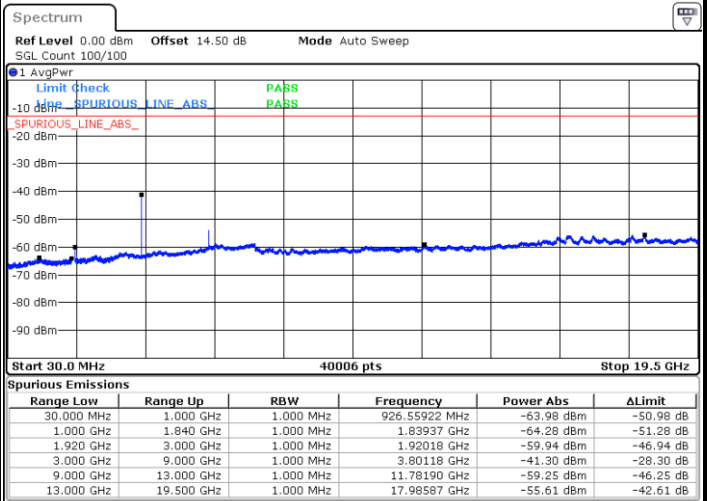
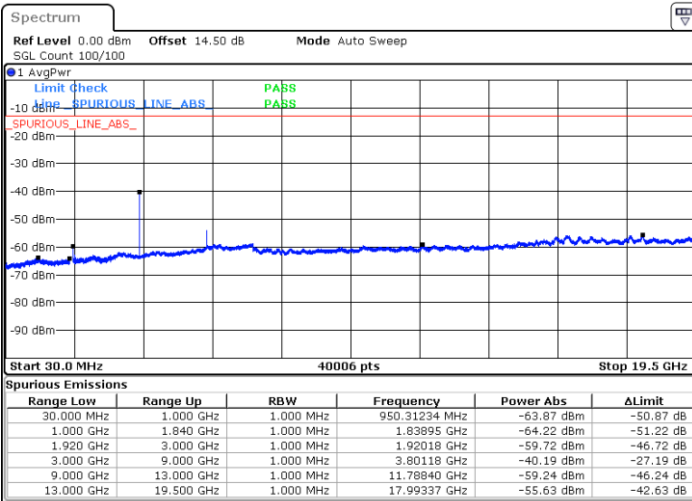


Date: 28.FEB.2023 05:20:35

Date: 28.FEB.2023 05:22:07

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28.FEB.2023 05:30:46

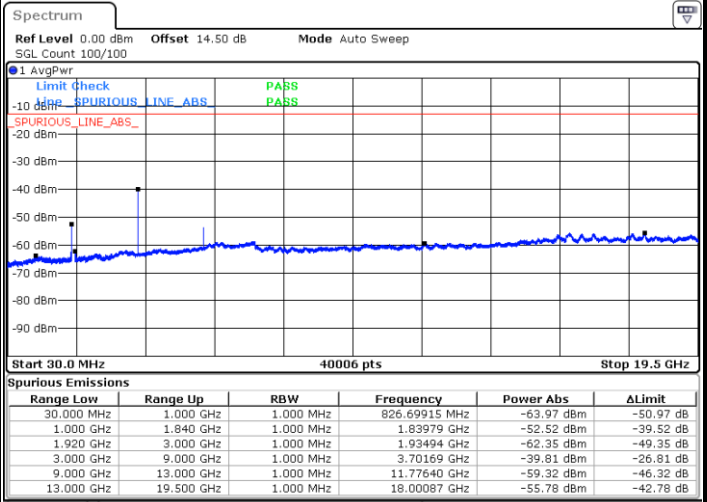
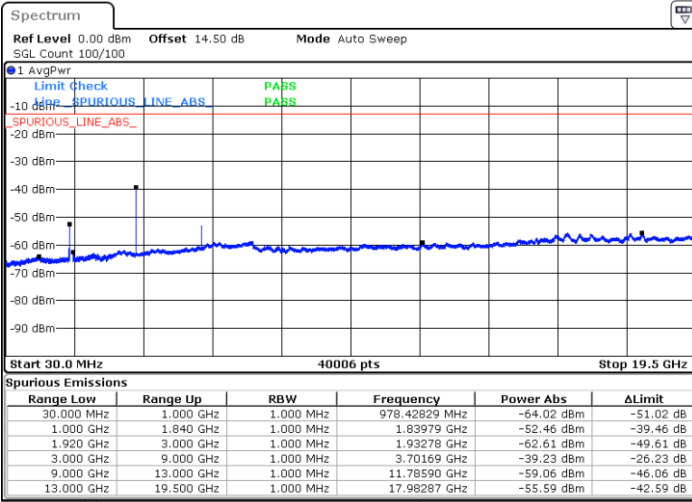
Date: 28.FEB.2023 05:32:19



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

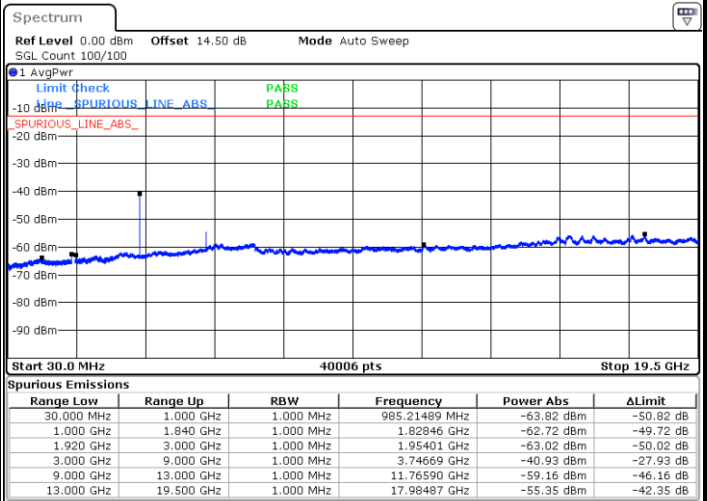
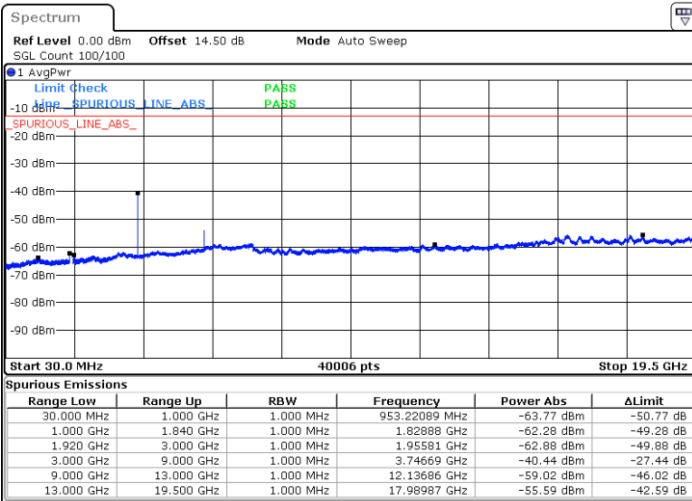


Date: 28.FEB.2023 05:40:58

Date: 28.FEB.2023 05:42:31

Middle Channel / QPSK

Middle Channel / 16QAM



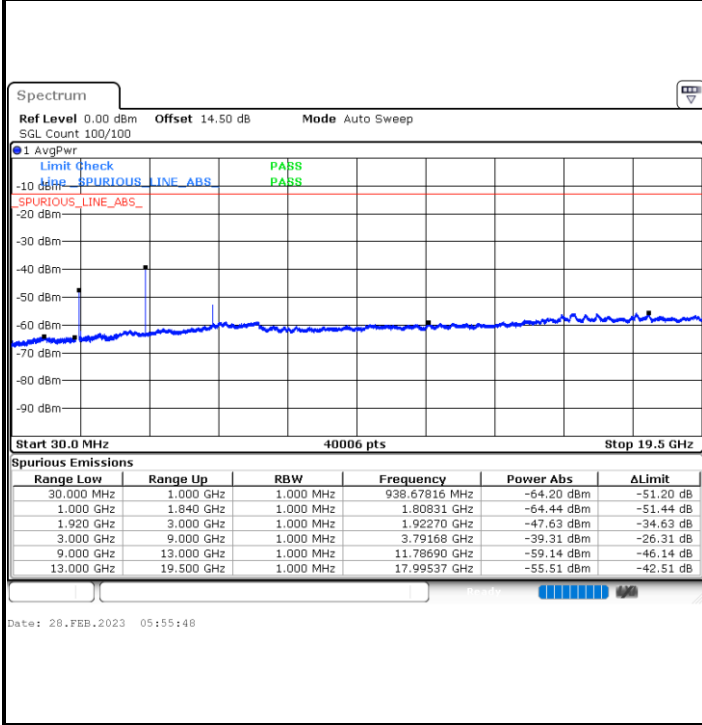
Date: 28.FEB.2023 05:45:37

Date: 28.FEB.2023 05:47:10

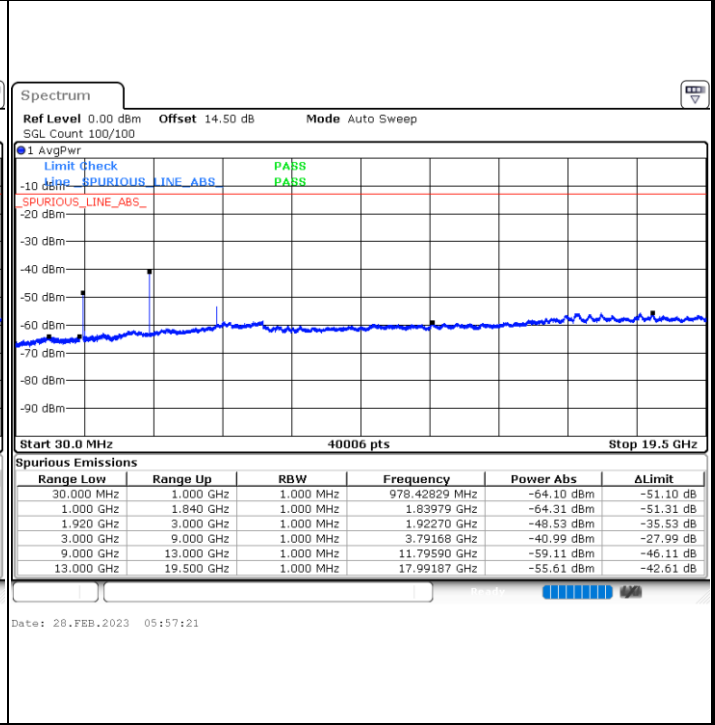


LTE Band 2 / 15MHz

Highest Channel / QPSK

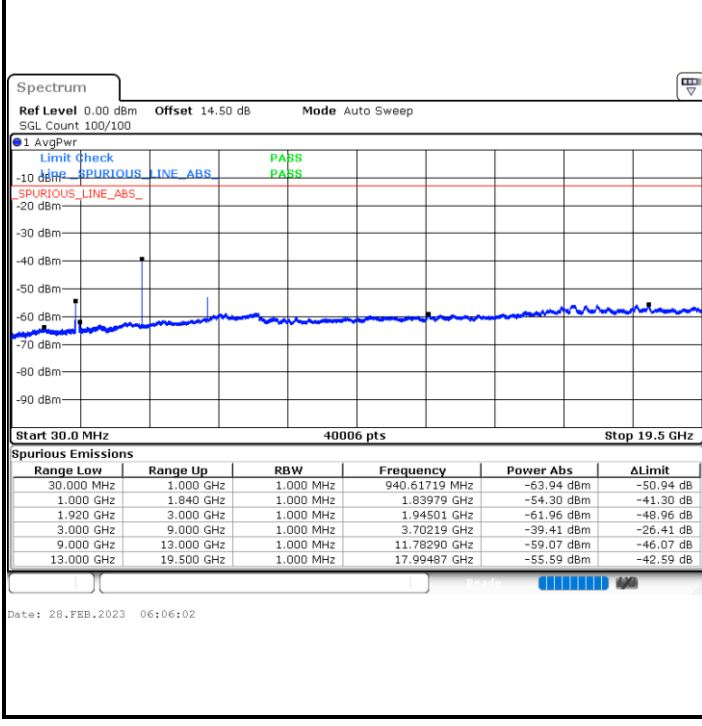


Highest Channel / 16QAM

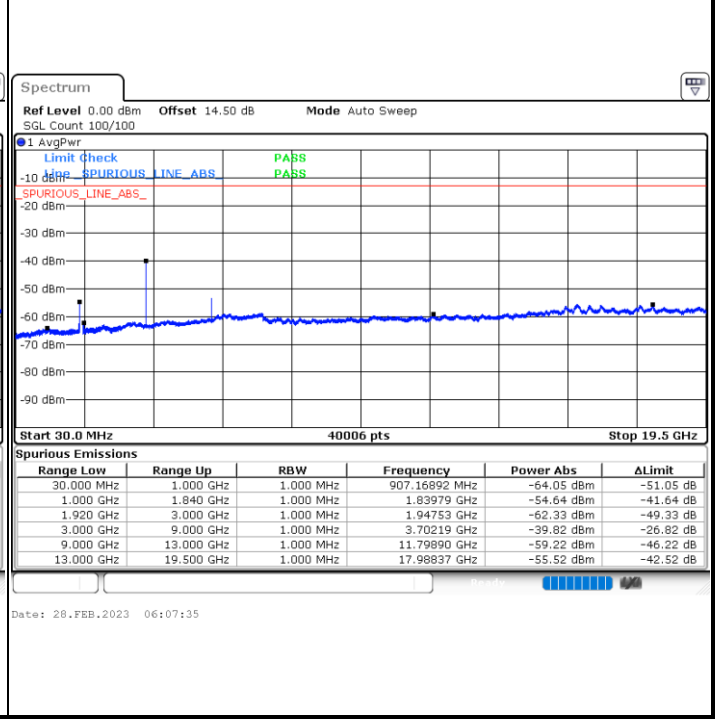


LTE Band 2 / 20MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

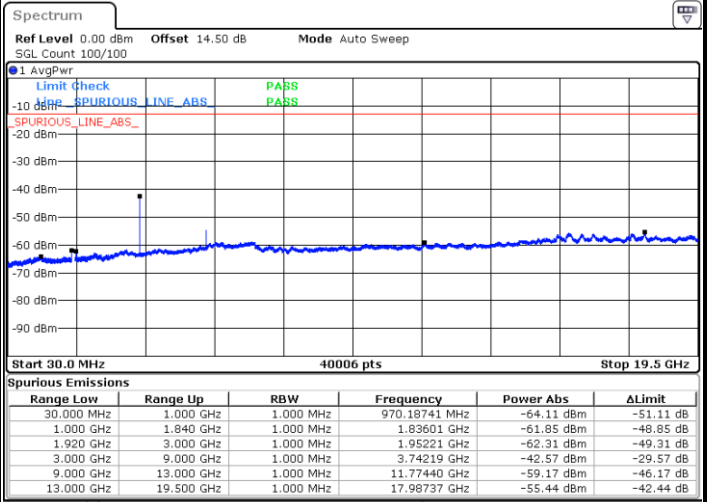
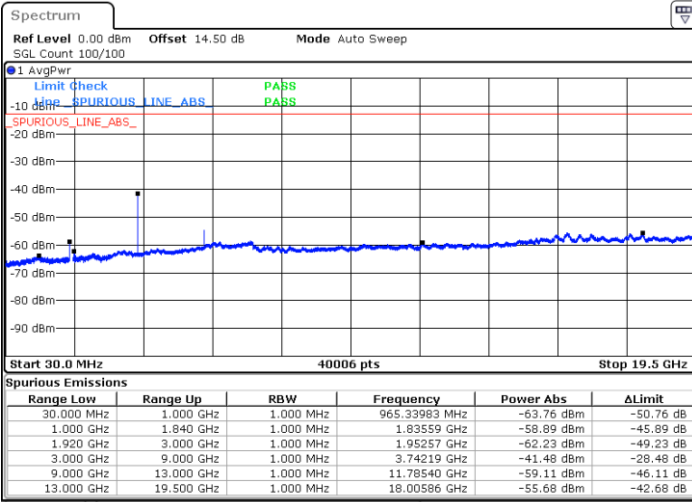




LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

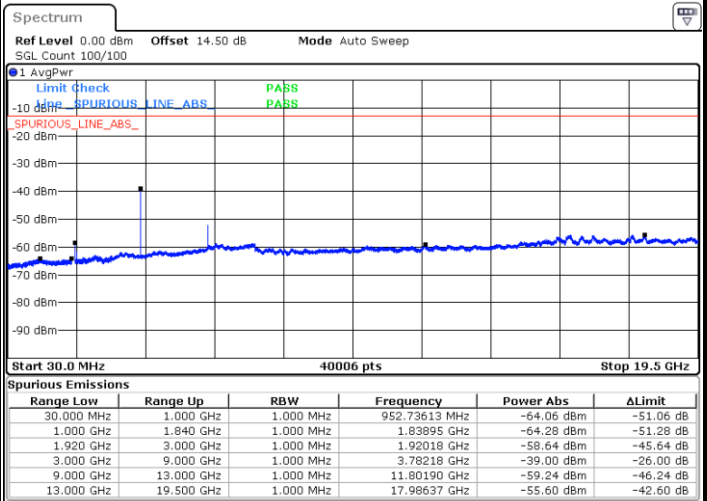
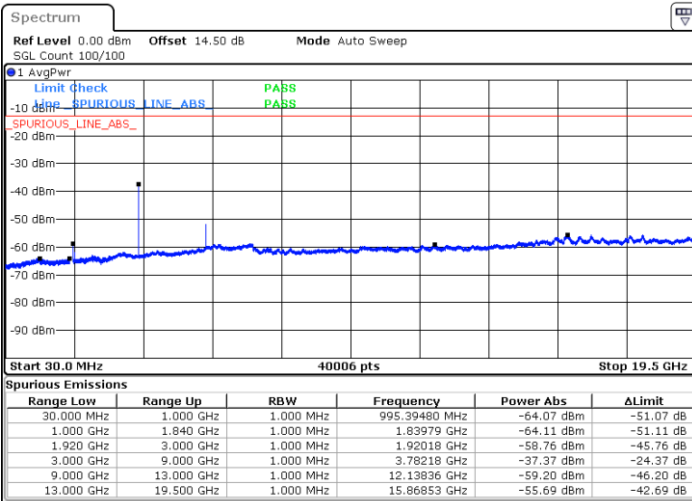


Date: 28.FEB.2023 06:10:41

Date: 28.FEB.2023 06:12:13

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28.FEB.2023 06:20:52

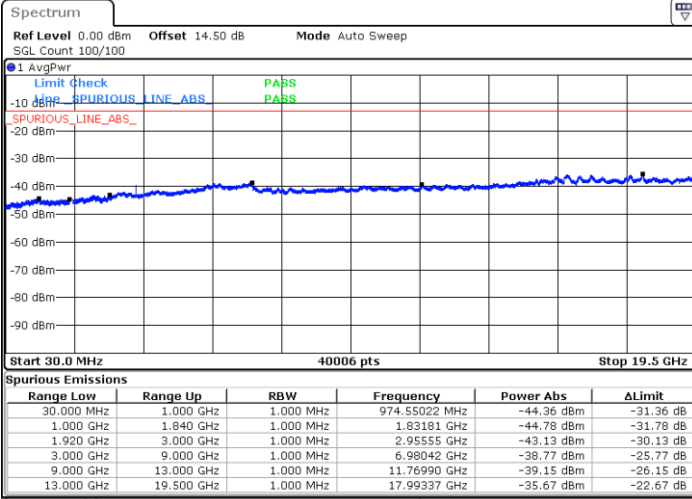
Date: 28.FEB.2023 06:22:24



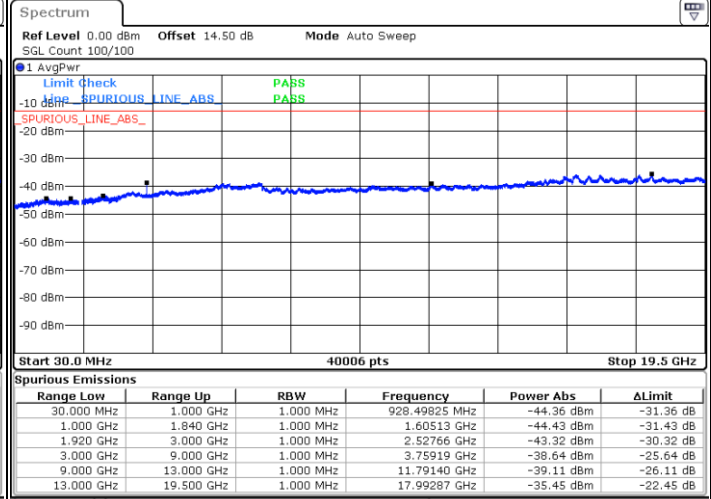
LTE Band 2 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



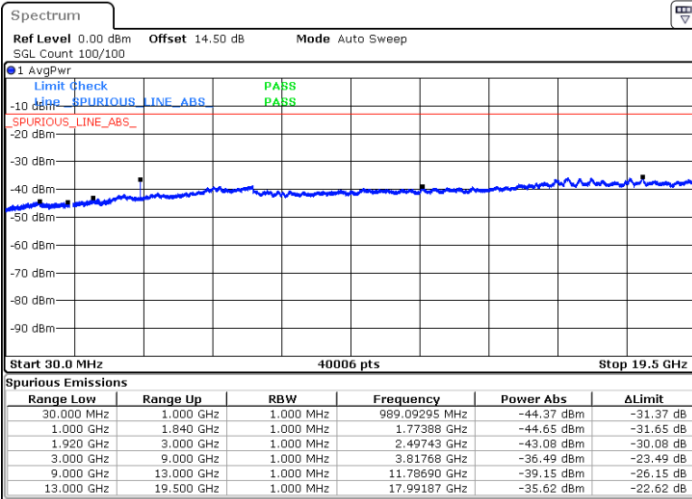
Date: 28.FEB.2023 03:45:03



Date: 28.FEB.2023 03:47:13

Highest Channel / 64QAM

NA

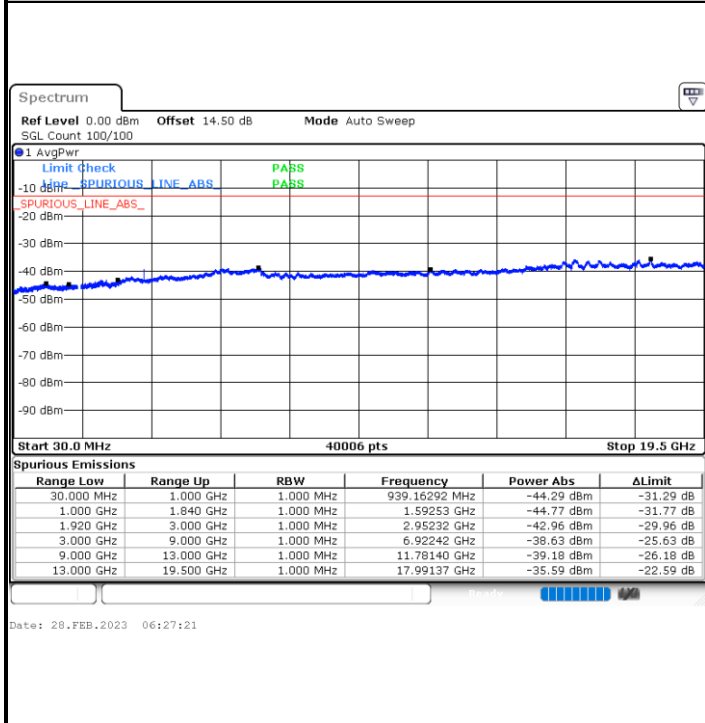


Date: 28.FEB.2023 03:52:09

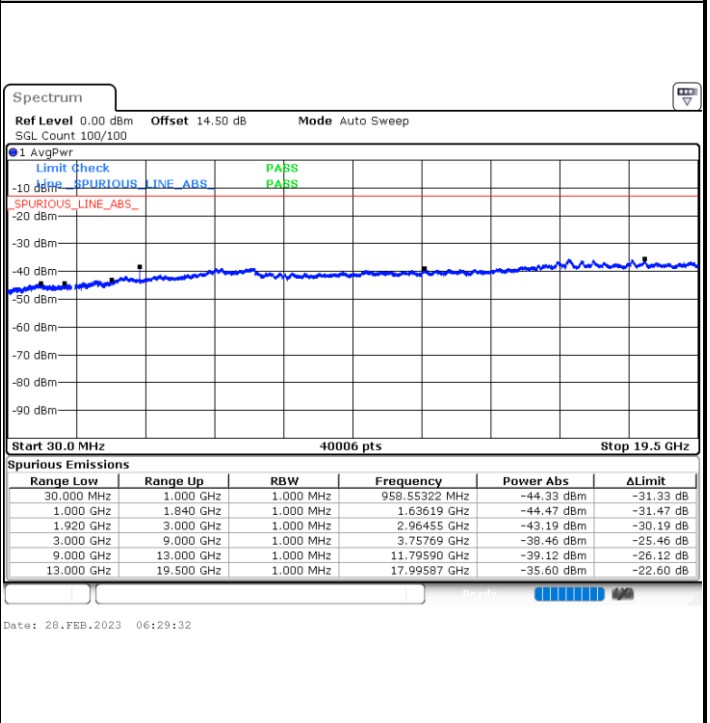


LTE Band 2 / 3MHz

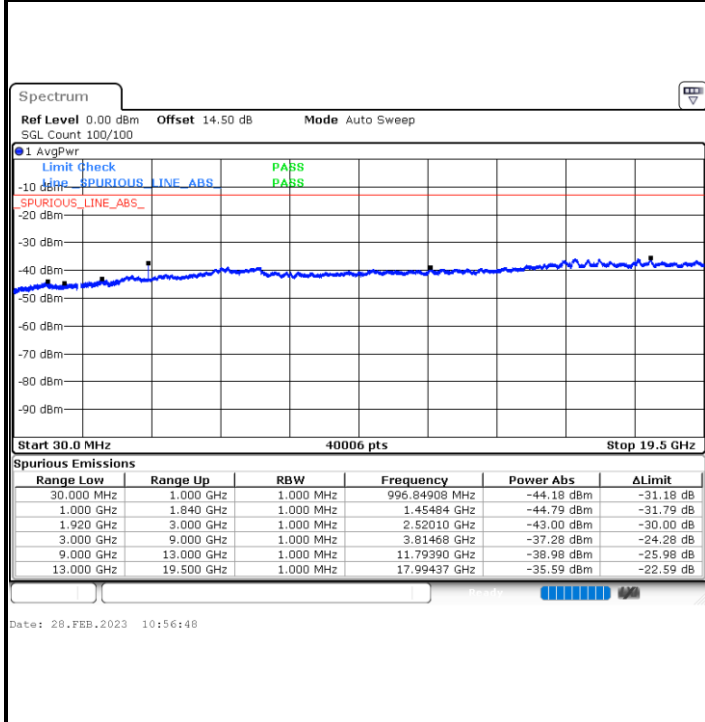
Lowest Channel / 64QAM



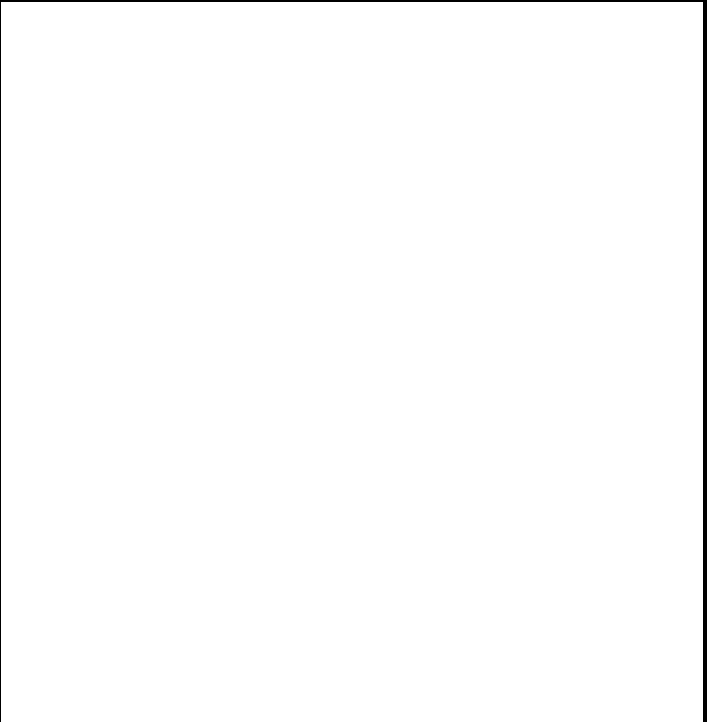
Middle Channel / 64QAM



Highest Channel / 64QAM



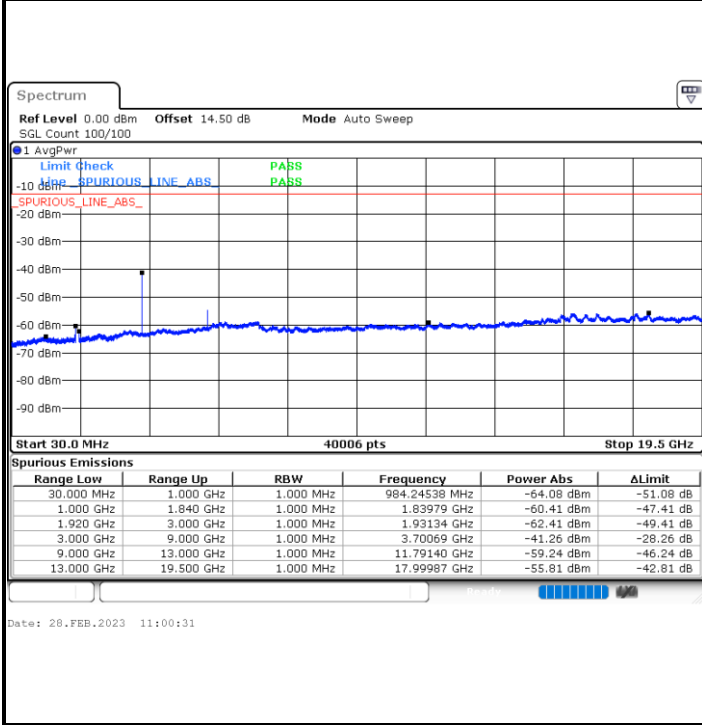
NA



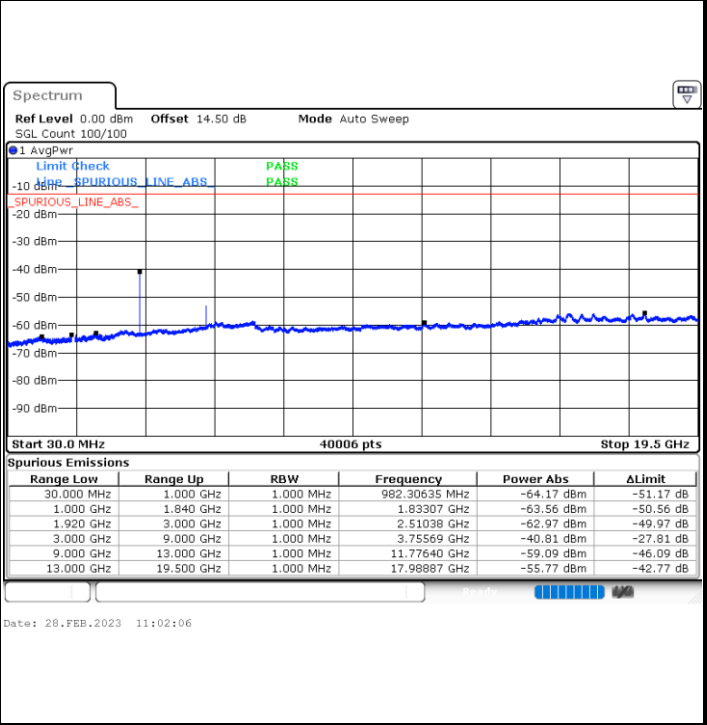


LTE Band 2 / 5MHz

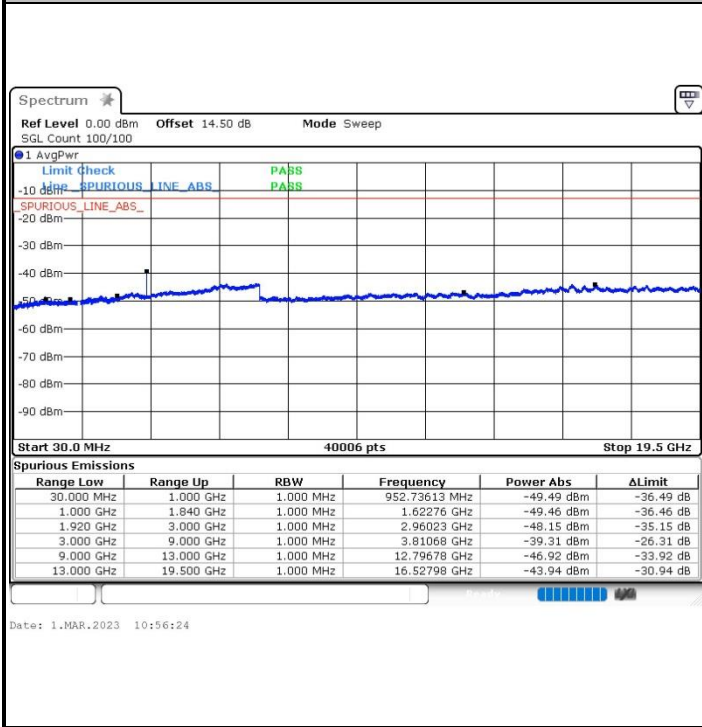
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



NA



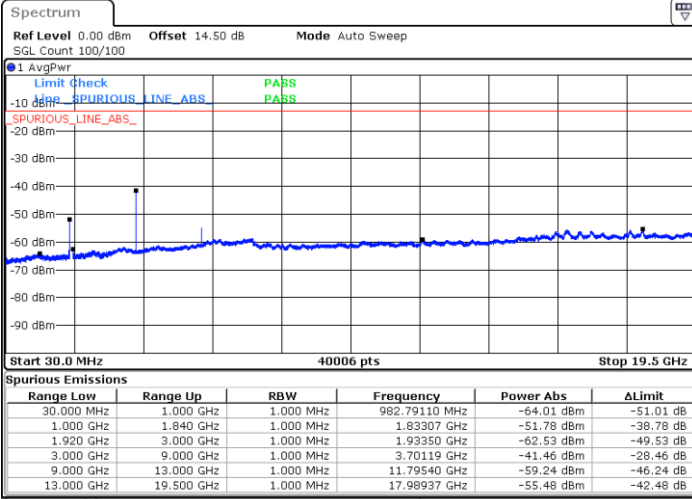




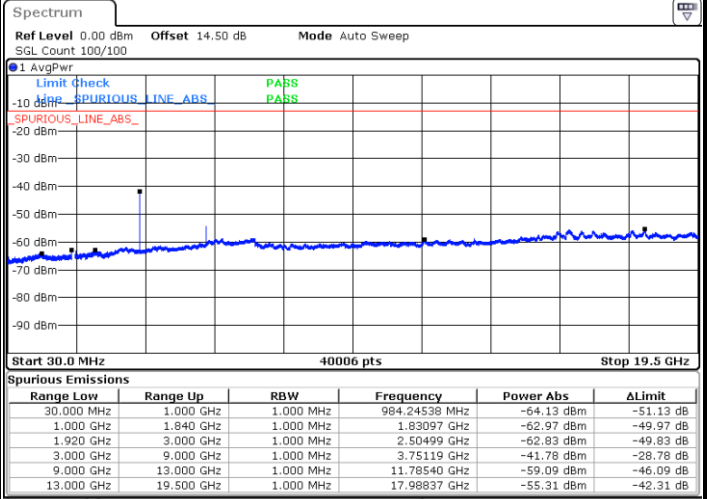
LTE Band 2 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



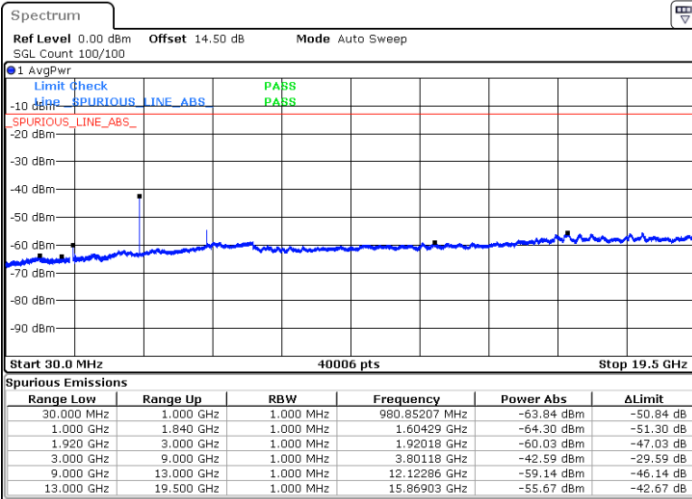
Date: 28.FEB.2023 11:09:31



Date: 28.FEB.2023 11:11:06

Highest Channel / 64QAM

NA



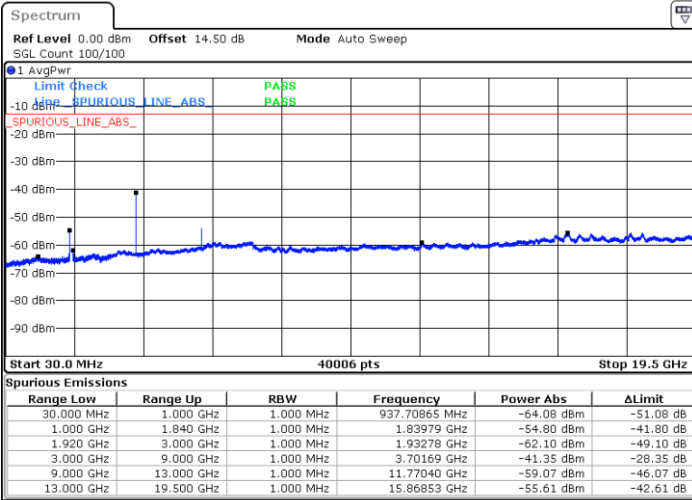
Date: 28.FEB.2023 11:14:48



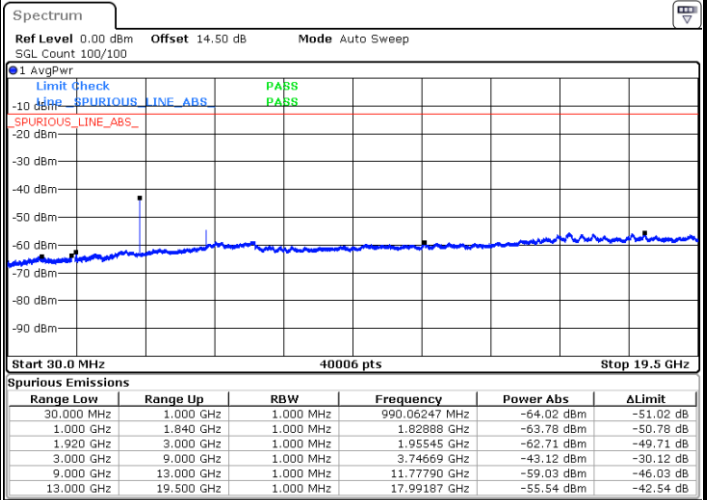
LTE Band 2 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



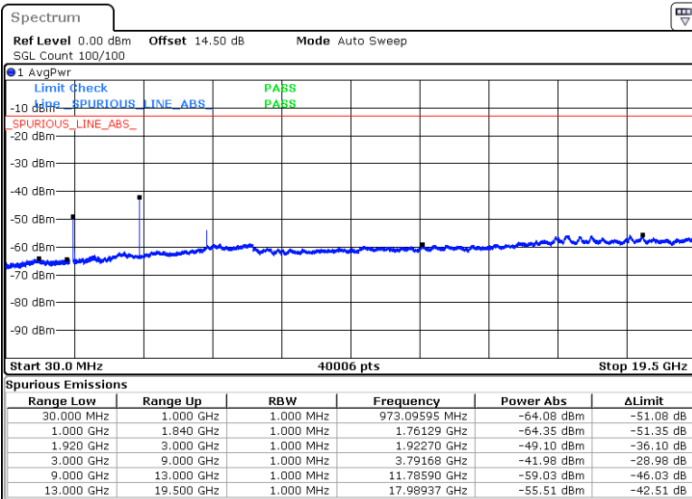
Date: 28.FEB.2023 11:35:05



Date: 28.FEB.2023 11:36:40

Highest Channel / 64QAM

NA

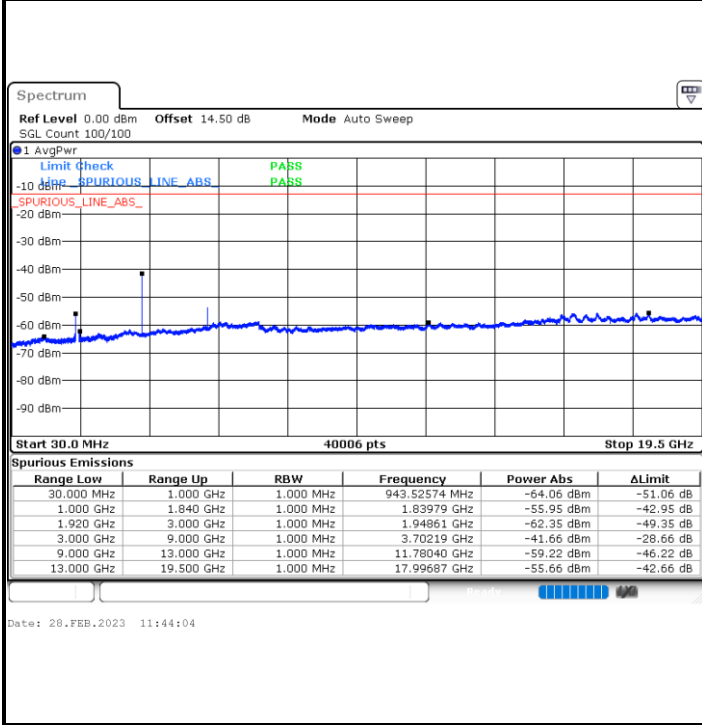


Date: 28.FEB.2023 11:40:22

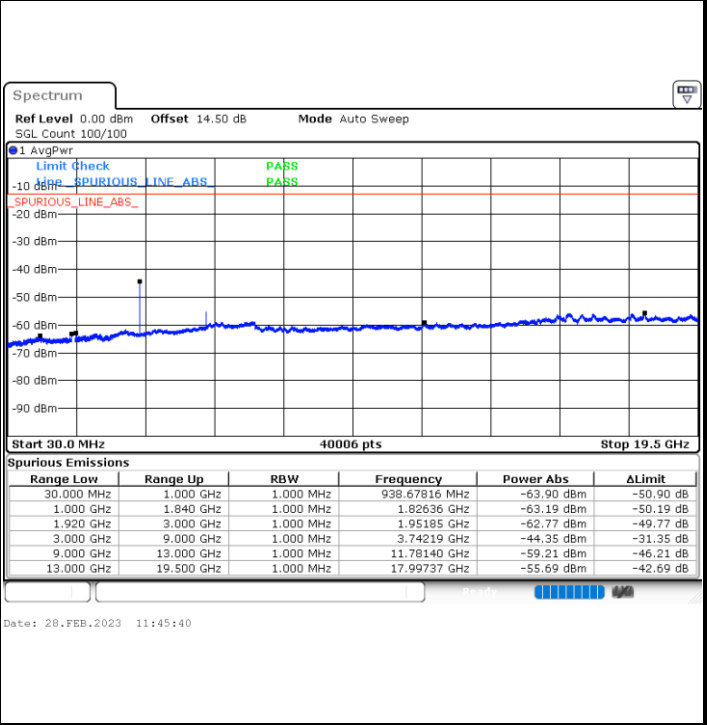


**LTE Band 2 / 20MHz**

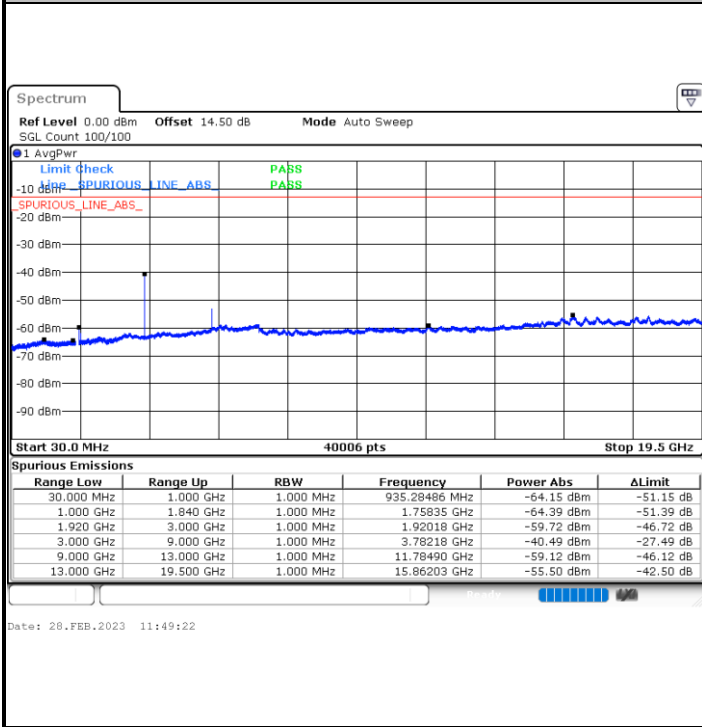
**Lowest Channel / 64QAM**



**Middle Channel / 64QAM**



**Highest Channel / 64QAM**



**NA**





### Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
55	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0016	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

**Note:**

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



### LTE Band 2 other PA

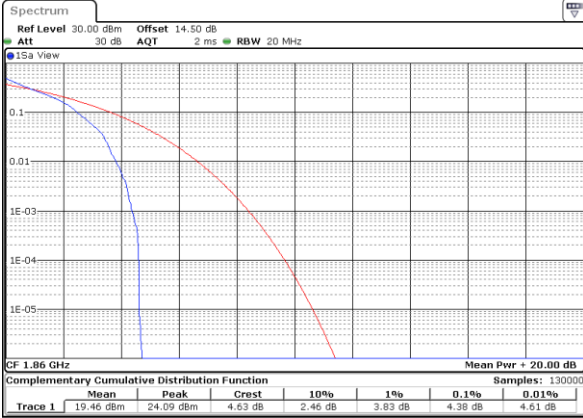
#### Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.38	5.16	5.59	6.17	PASS
Middle CH	4.49	5.22	5.74	6.20	
Highest CH	5.01	5.13	6.06	6.09	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.68	6.49	-	-	PASS
Middle CH	6.03	6.38	-	-	
Highest CH	6.75	6.38	-	-	



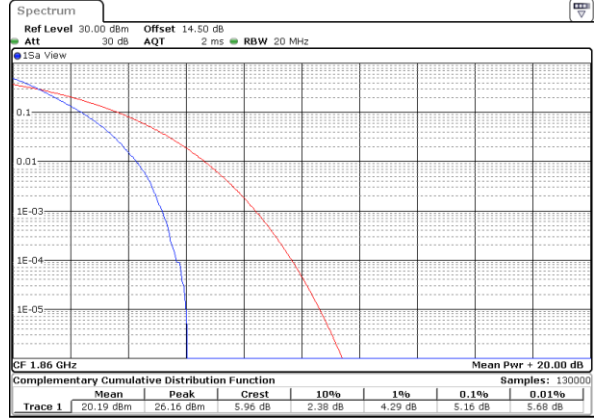
LTE Band 2 / 20MHz / QPSK

Lowest Channel / 1RB



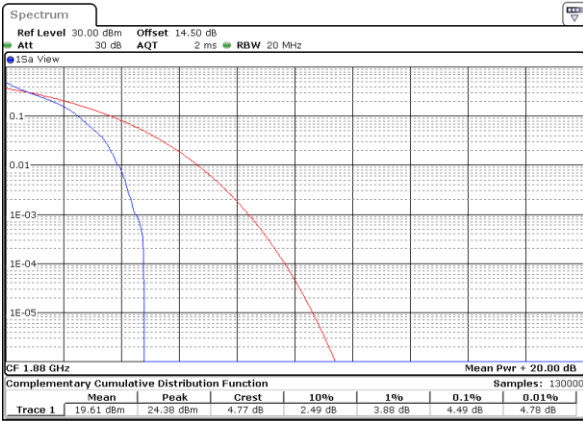
Date: 6.MAR.2023 23:36:57

Lowest Channel / Full RB



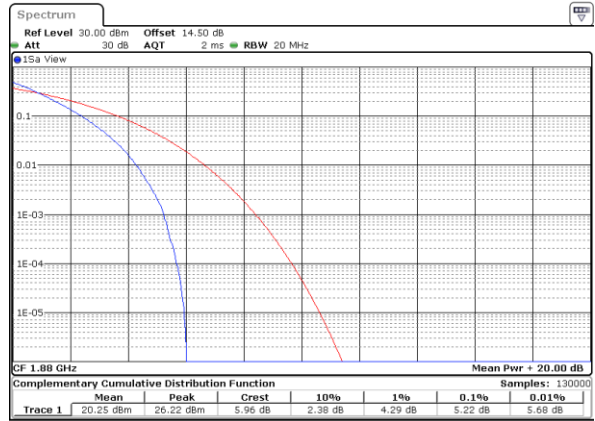
Date: 6.MAR.2023 23:37:22

Middle Channel / 1RB



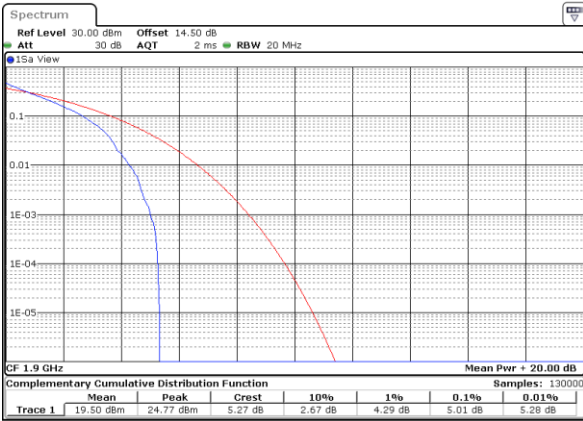
Date: 6.MAR.2023 23:37:47

Middle Channel / Full RB



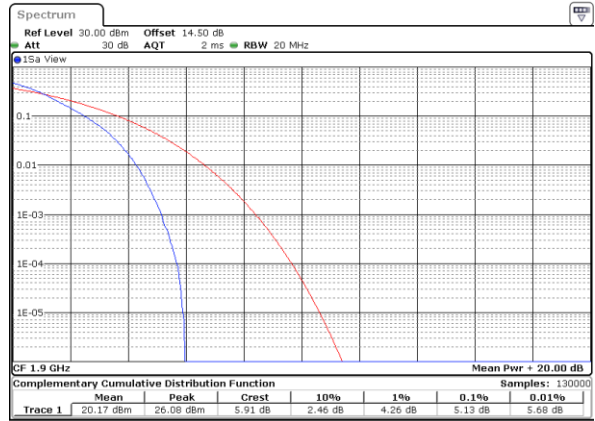
Date: 6.MAR.2023 23:38:13

Highest Channel / 1RB



Date: 6.MAR.2023 23:38:38

Highest Channel / Full RB

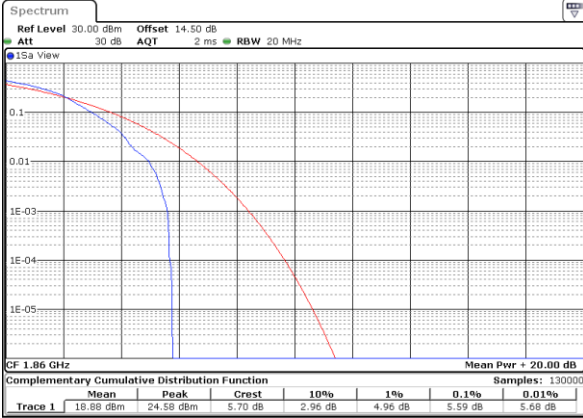


Date: 6.MAR.2023 23:39:03



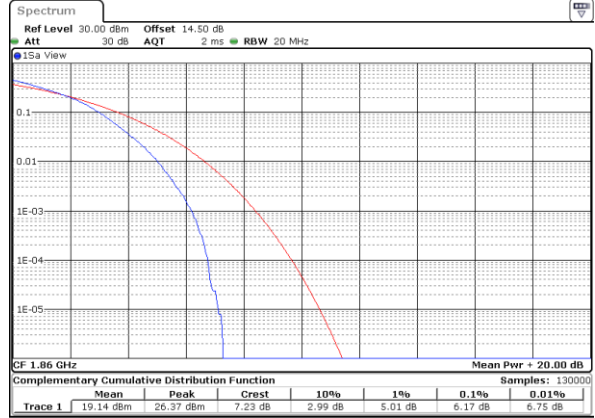
LTE Band 2 / 20MHz / 16QAM

Lowest Channel / 1RB



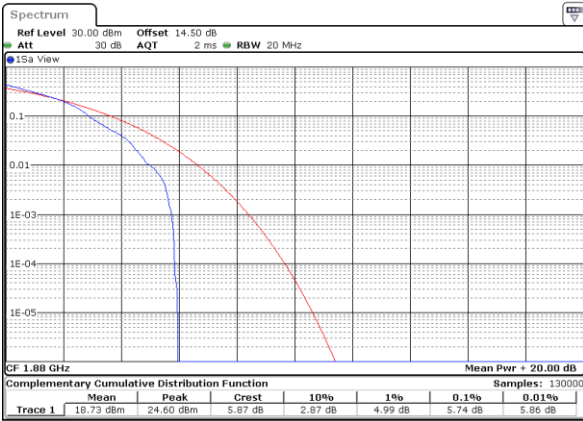
Date: 6.MAR.2023 23:34:25

Lowest Channel / Full RB



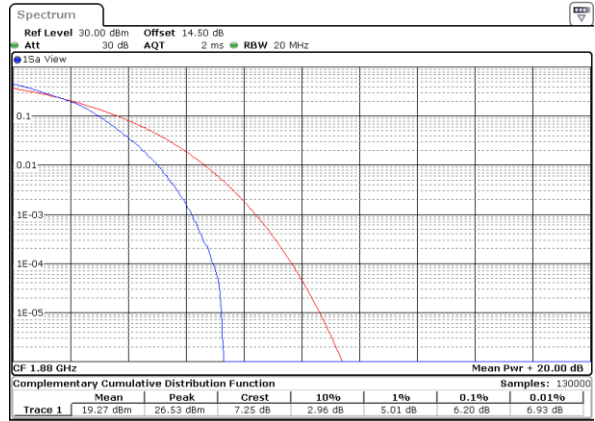
Date: 6.MAR.2023 23:34:51

Middle Channel / 1RB



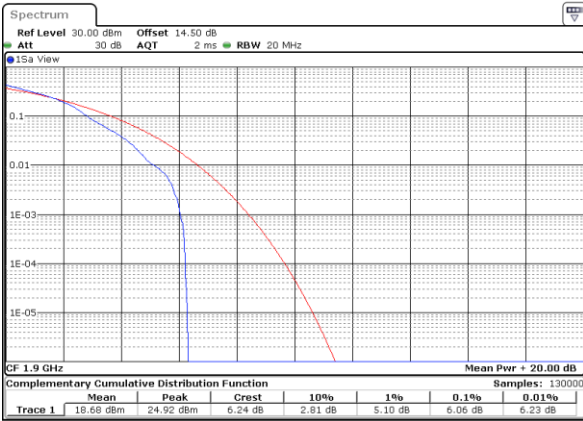
Date: 6.MAR.2023 23:35:16

Middle Channel / Full RB



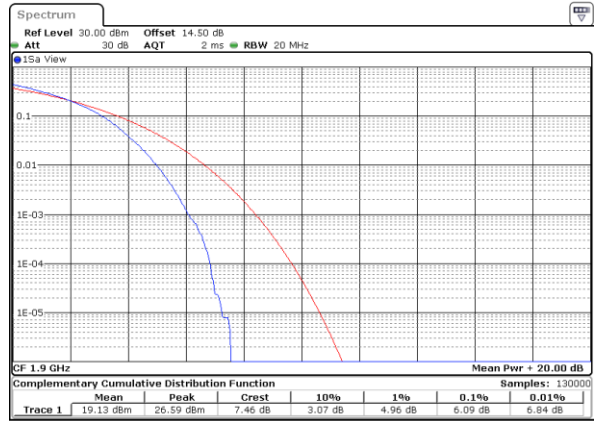
Date: 6.MAR.2023 23:35:41

Highest Channel / 1RB



Date: 6.MAR.2023 23:36:06

Highest Channel / Full RB

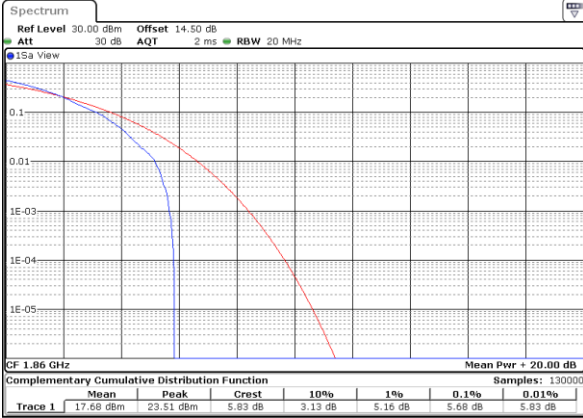


Date: 6.MAR.2023 23:36:31



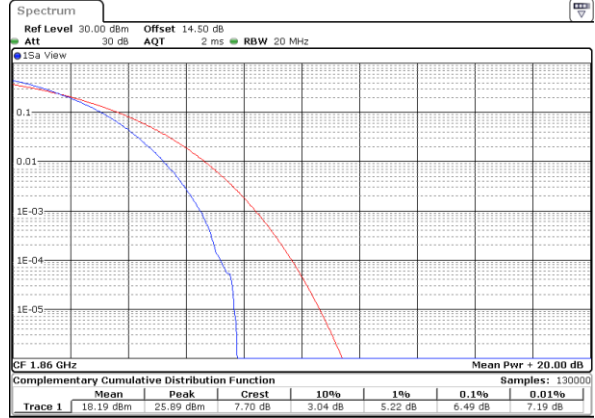
LTE Band 2 / 20MHz / 64QAM

Lowest Channel / 1RB



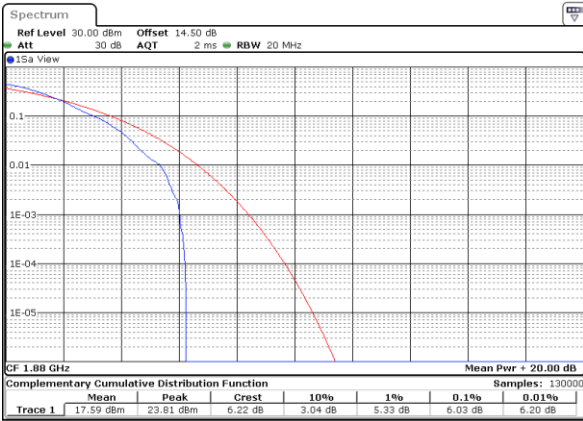
Date: 6.MAR.2023 23:39:29

Lowest Channel / Full RB



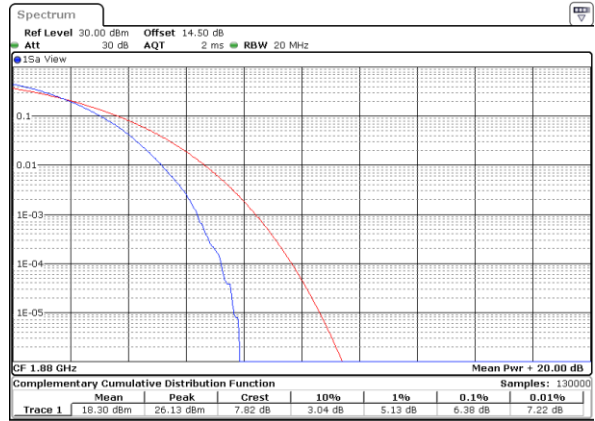
Date: 6.MAR.2023 23:39:54

Middle Channel / 1RB



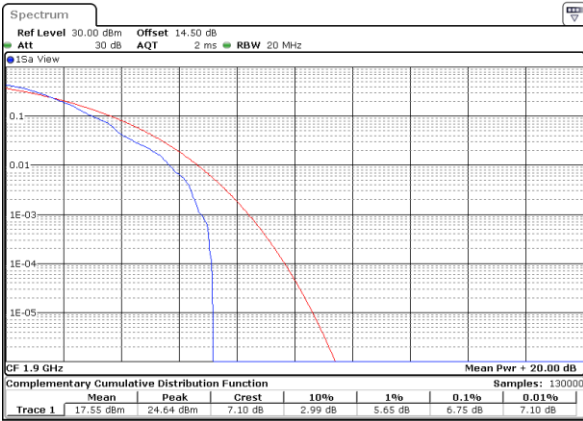
Date: 6.MAR.2023 23:40:19

Middle Channel / Full RB



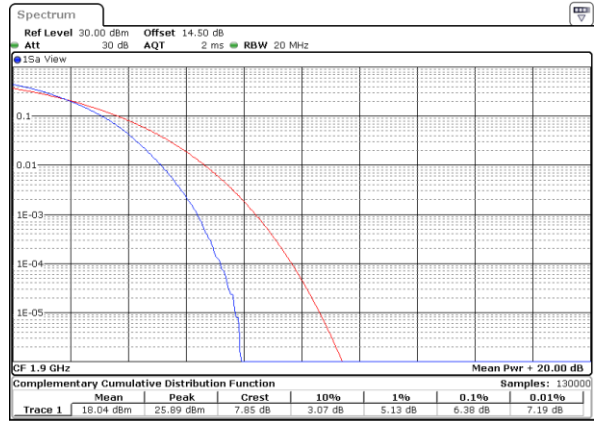
Date: 6.MAR.2023 23:40:44

Highest Channel / 1RB



Date: 6.MAR.2023 23:41:09

Highest Channel / Full RB



Date: 6.MAR.2023 23:41:35





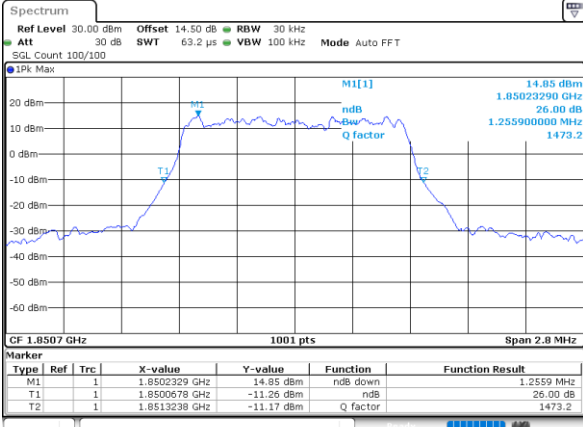
**26dB Bandwidth**

Mode	LTE Band 2 : 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	1.26	1.28	2.97	3.00	4.77	4.98	9.69	9.83	14.60	14.24	18.78	18.74
Middle CH	1.29	1.27	2.99	2.96	4.91	4.83	9.61	9.83	14.45	14.21	18.62	18.82
Highest CH	1.27	1.27	2.97	2.94	4.98	4.87	9.77	9.77	14.42	14.24	18.66	18.70
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.30	-	2.97	-	4.97	-	9.89	-	14.30	-	18.78	-
Middle CH	1.30	-	2.96	-	4.86	-	9.79	-	14.51	-	18.90	-
Highest CH	1.27	-	3.00	-	4.81	-	9.77	-	14.27	-	18.82	-



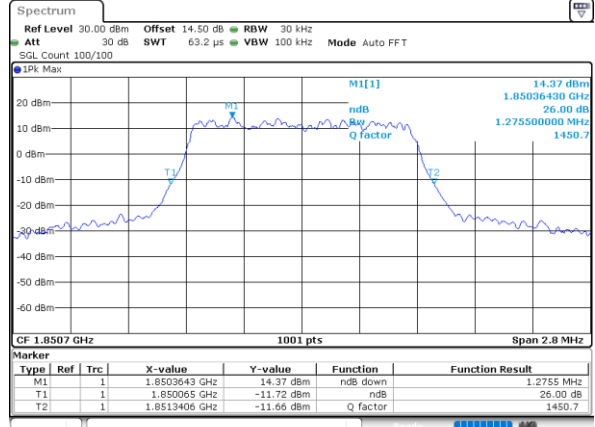
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



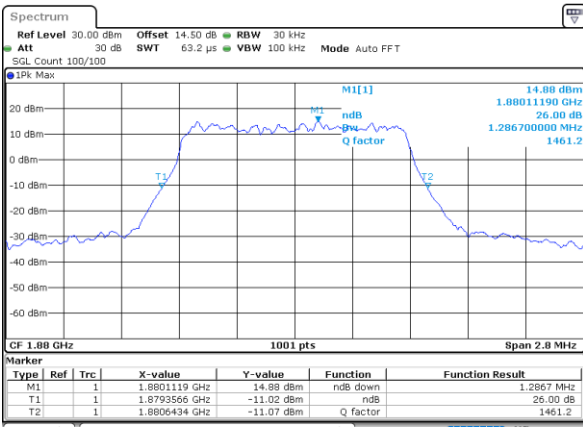
Date: 6.MAR.2023 19:26:37

Lowest Channel / 1.4MHz / 16QAM



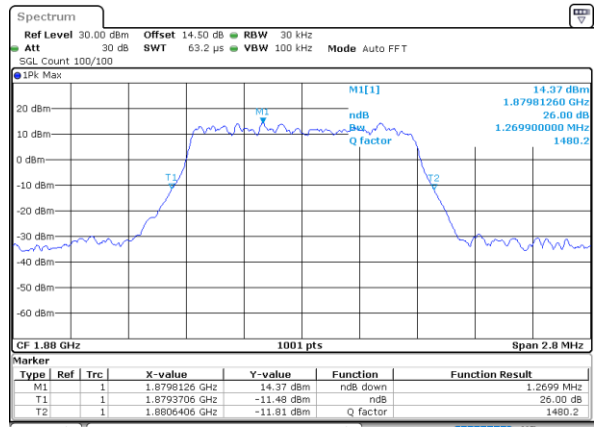
Date: 6.MAR.2023 19:27:01

Middle Channel / 1.4MHz / QPSK



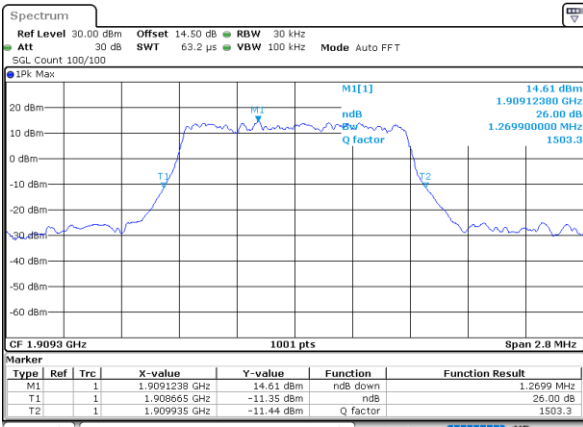
Date: 6.MAR.2023 19:35:48

Middle Channel / 1.4MHz / 16QAM



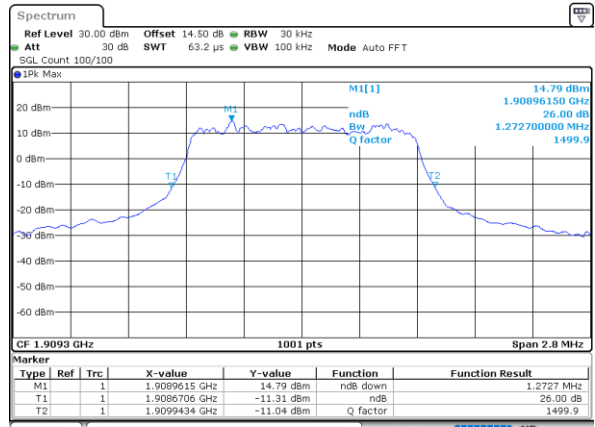
Date: 6.MAR.2023 19:36:11

Highest Channel / 1.4MHz / QPSK



Date: 6.MAR.2023 19:39:56

Highest Channel / 1.4MHz / 16QAM

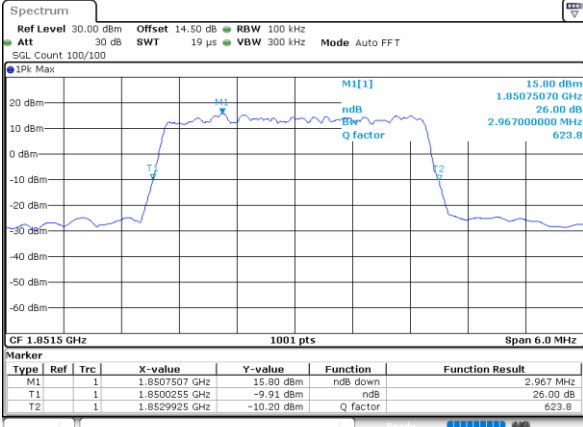


Date: 6.MAR.2023 19:40:20



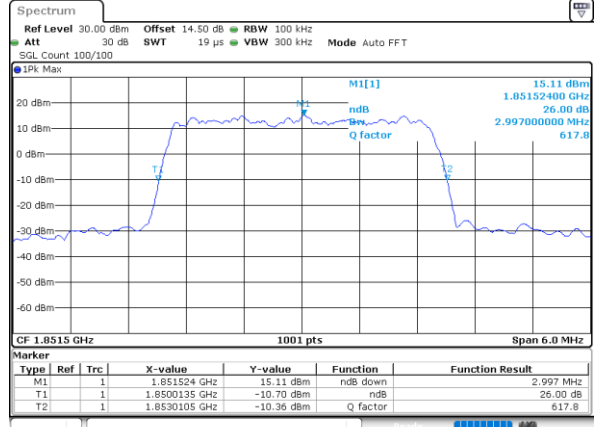
LTE Band 2

Lowest Channel / 3MHz / QPSK



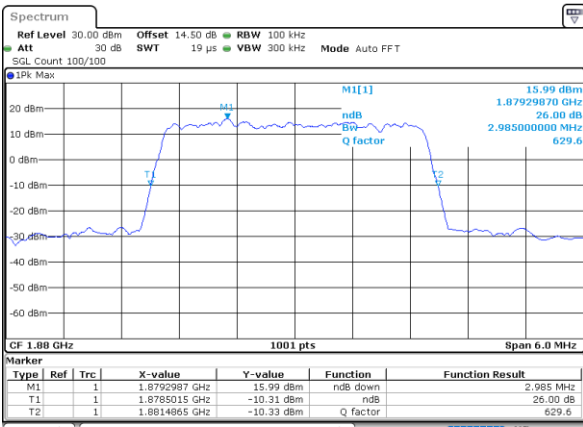
Date: 6.MAR.2023 19:49:09

Lowest Channel / 3MHz / 16QAM



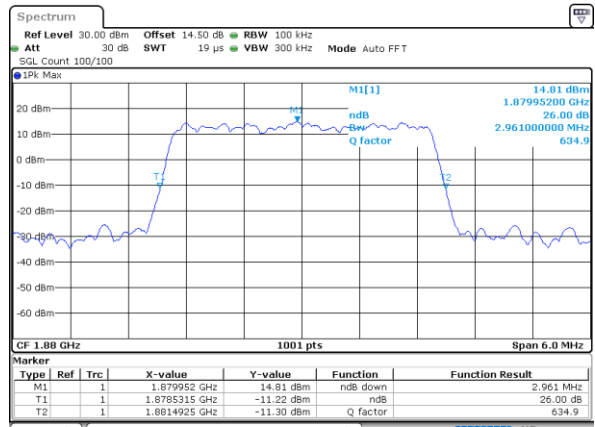
Date: 6.MAR.2023 19:49:33

Middle Channel / 3MHz / QPSK



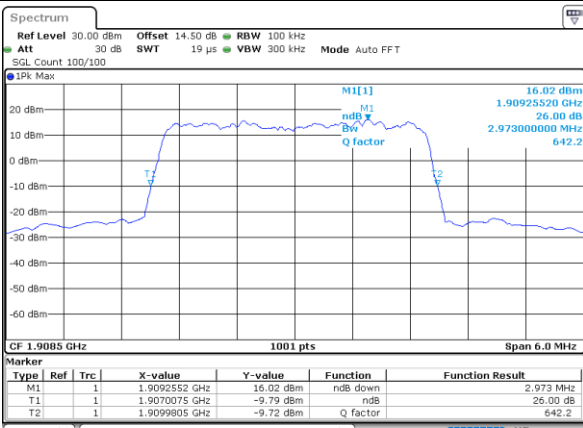
Date: 6.MAR.2023 19:58:06

Middle Channel / 3MHz / 16QAM



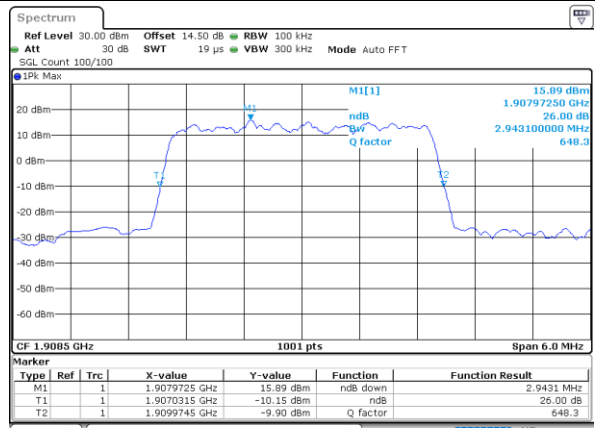
Date: 6.MAR.2023 19:58:30

Highest Channel / 3MHz / QPSK



Date: 6.MAR.2023 21:03:39

Highest Channel / 3MHz / 16QAM

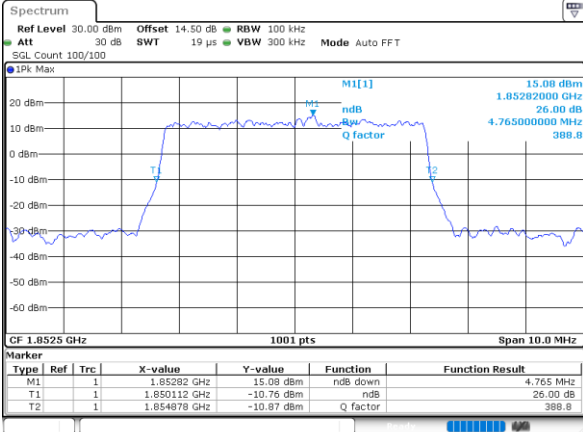


Date: 6.MAR.2023 21:04:03



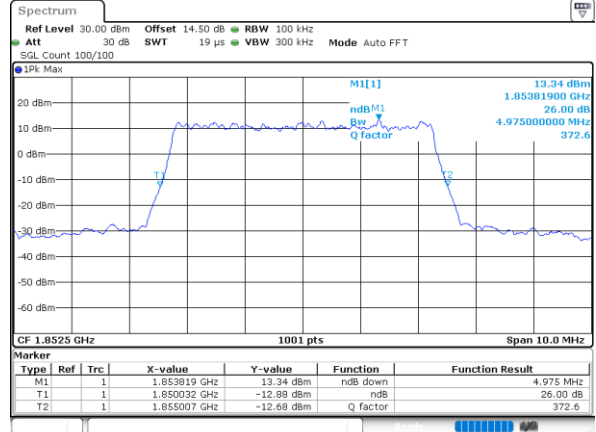
LTE Band 2

Lowest Channel / 5MHz / QPSK



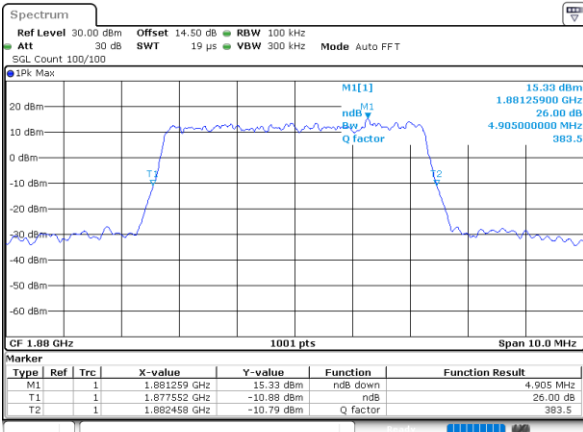
Date: 6.MAR.2023 21:12:01

Lowest Channel / 5MHz / 16QAM



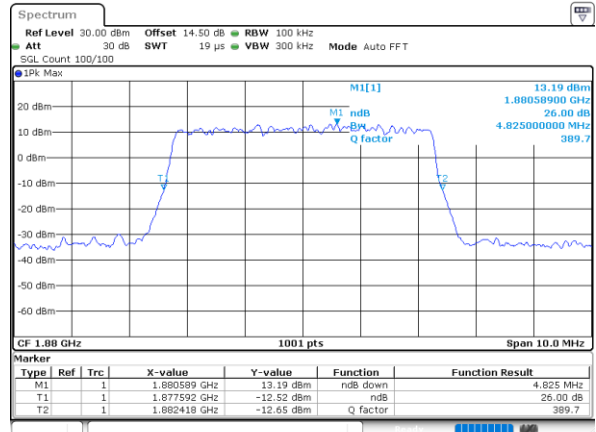
Date: 6.MAR.2023 21:12:25

Middle Channel / 5MHz / QPSK



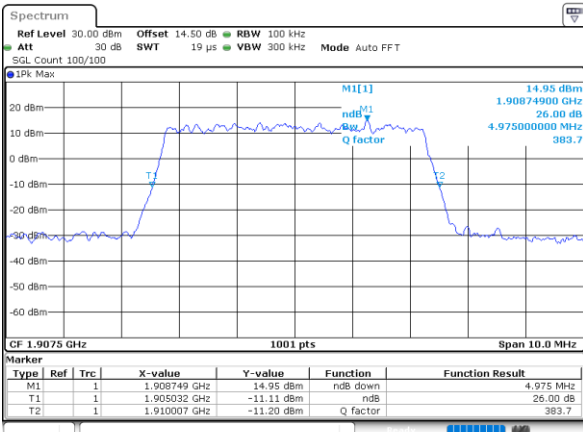
Date: 6.MAR.2023 21:19:58

Middle Channel / 5MHz / 16QAM



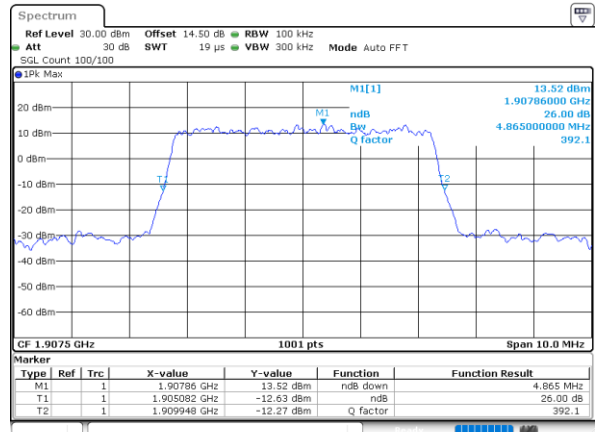
Date: 6.MAR.2023 21:20:21

Highest Channel / 5MHz / QPSK



Date: 6.MAR.2023 21:25:37

Highest Channel / 5MHz / 16QAM

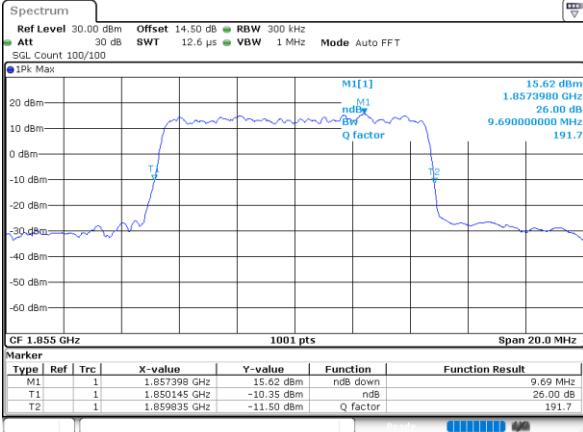


Date: 6.MAR.2023 21:26:00



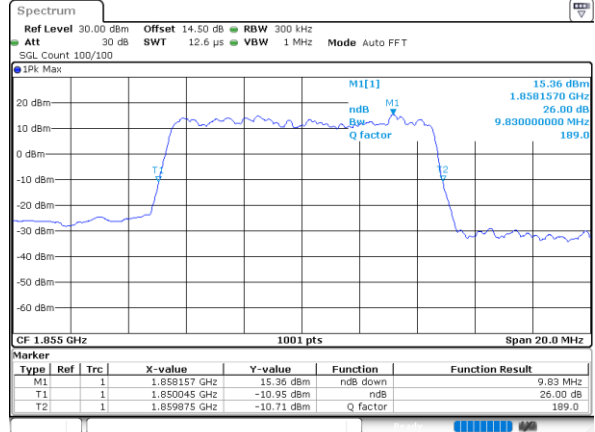
LTE Band 2

Lowest Channel / 10MHz / QPSK



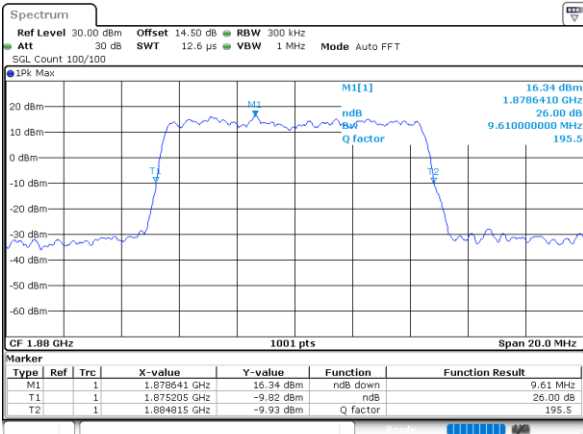
Date: 6.MAR.2023 21:33:36

Lowest Channel / 10MHz / 16QAM



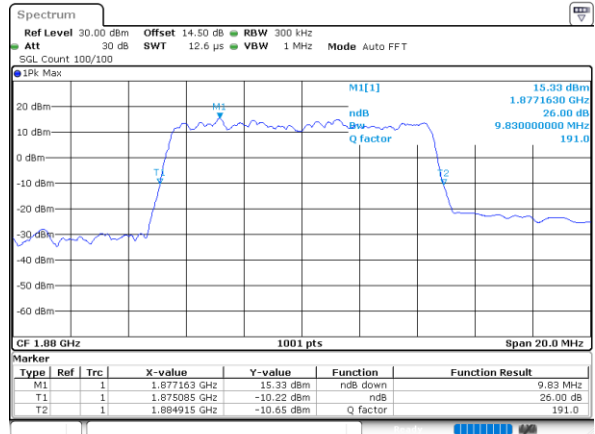
Date: 6.MAR.2023 21:34:00

Middle Channel / 10MHz / QPSK



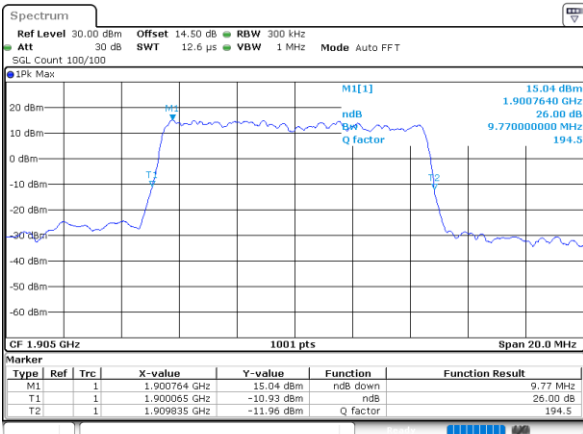
Date: 6.MAR.2023 21:41:42

Middle Channel / 10MHz / 16QAM



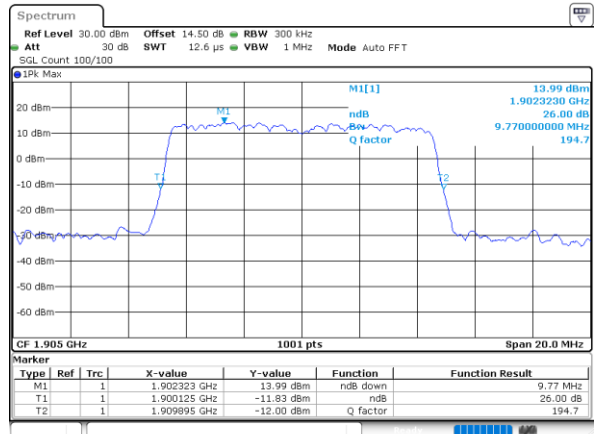
Date: 6.MAR.2023 21:42:05

Highest Channel / 10MHz / QPSK



Date: 6.MAR.2023 21:47:20

Highest Channel / 10MHz / 16QAM

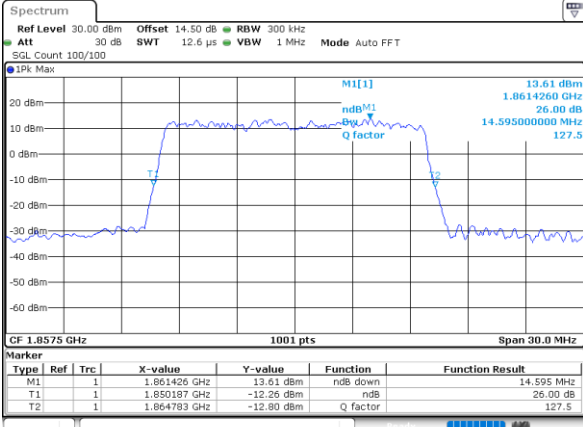


Date: 6.MAR.2023 21:47:44



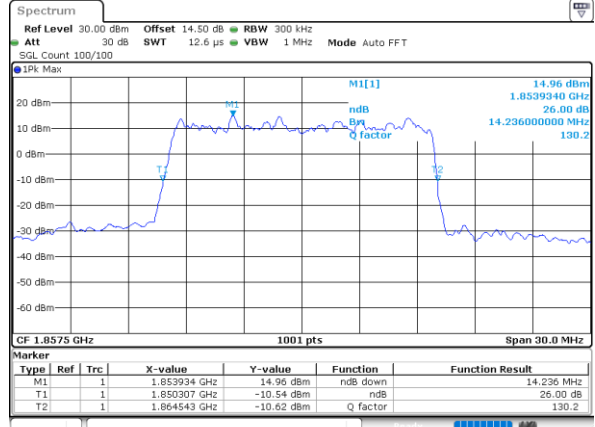
LTE Band 2

Lowest Channel / 15MHz / QPSK



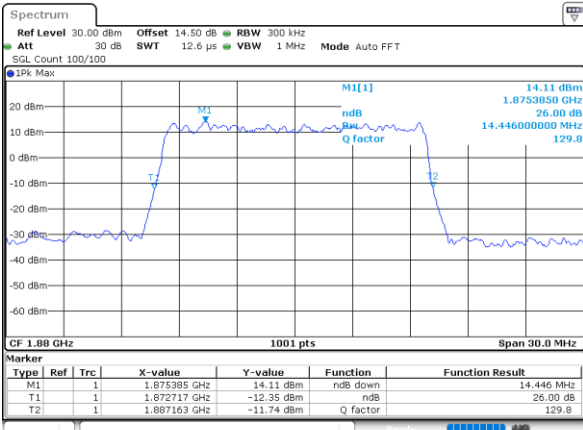
Date: 6,MAR,2023 21:55:21

Lowest Channel / 15MHz / 16QAM



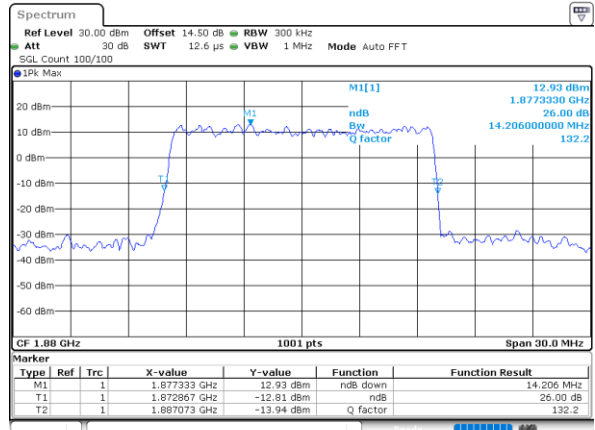
Date: 6,MAR,2023 21:55:45

Middle Channel / 15MHz / QPSK



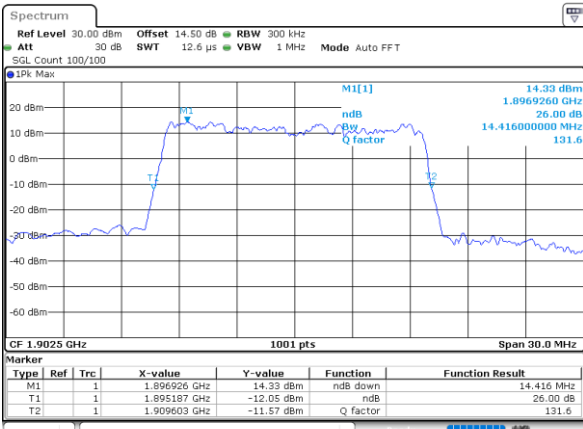
Date: 6,MAR,2023 22:03:19

Middle Channel / 15MHz / 16QAM



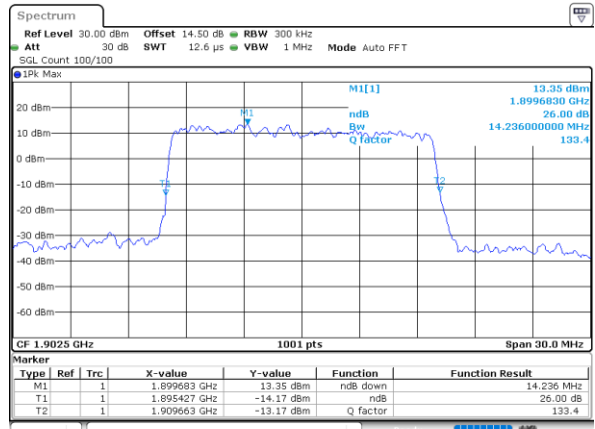
Date: 6,MAR,2023 22:03:42

Highest Channel / 15MHz / QPSK



Date: 7,MAR,2023 03:03:42

Highest Channel / 15MHz / 16QAM

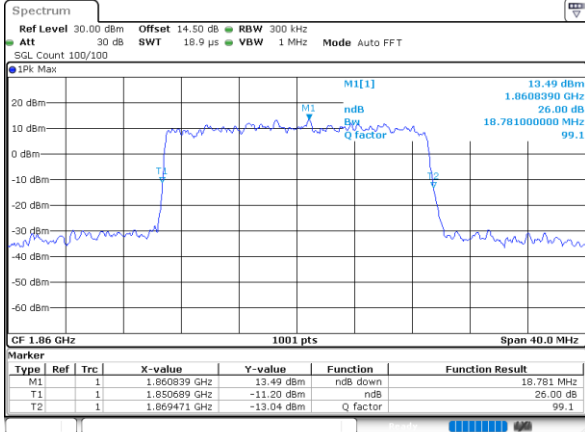


Date: 6,MAR,2023 22:26:50



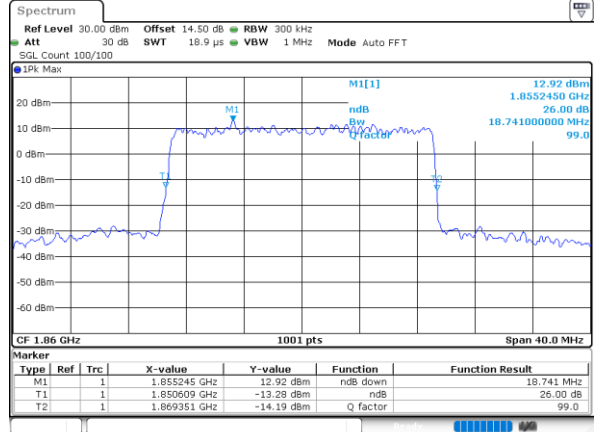
LTE Band 2

Lowest Channel / 20MHz / QPSK



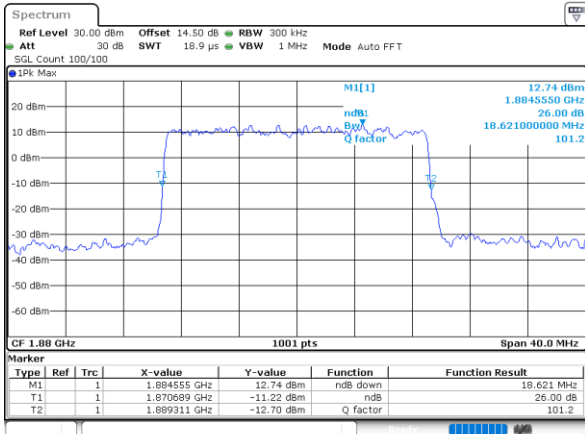
Date: 6.MAR.2023 22:33:22

Lowest Channel / 20MHz / 16QAM



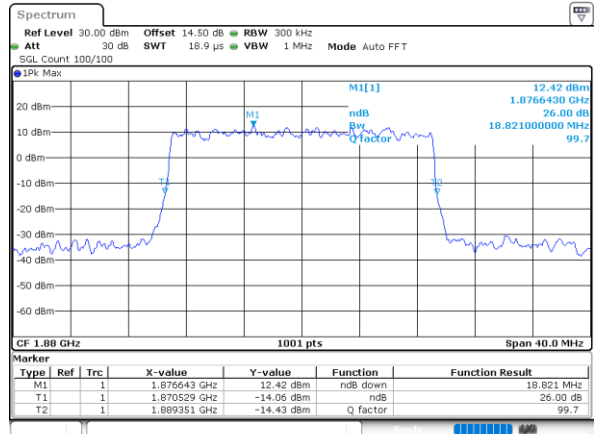
Date: 6.MAR.2023 22:33:46

Middle Channel / 20MHz / QPSK



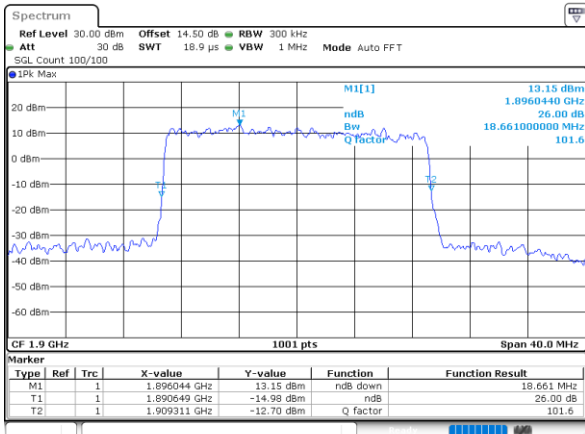
Date: 6.MAR.2023 22:40:16

Middle Channel / 20MHz / 16QAM



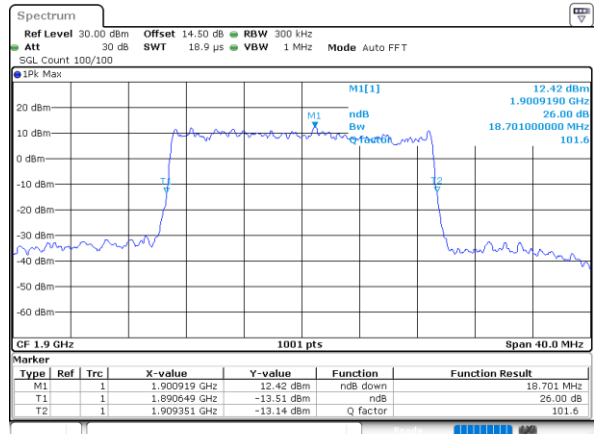
Date: 6.MAR.2023 22:40:40

Highest Channel / 20MHz / QPSK



Date: 6.MAR.2023 22:44:20

Highest Channel / 20MHz / 16QAM

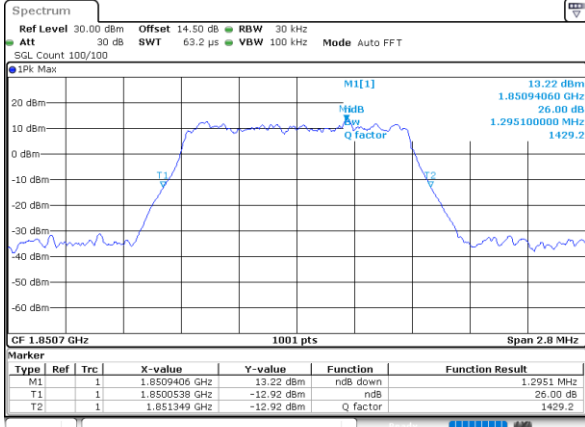


Date: 6.MAR.2023 22:44:44



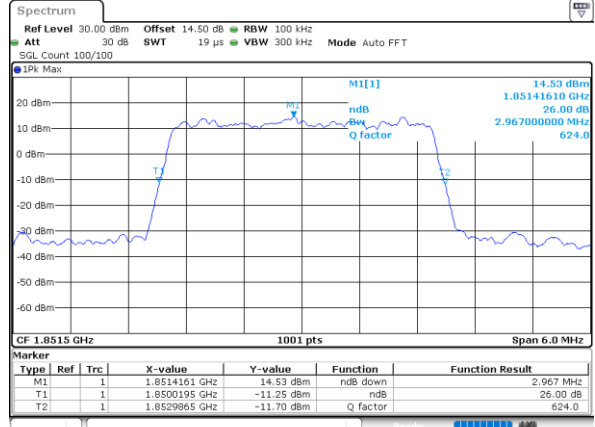
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



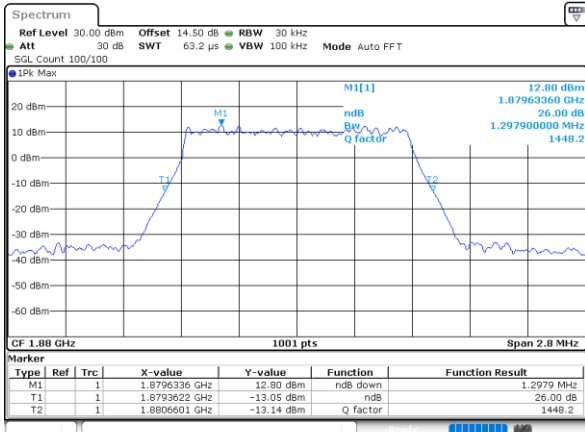
Date: 6.MAR.2023 19:15:16

Lowest Channel / 3MHz / 64QAM



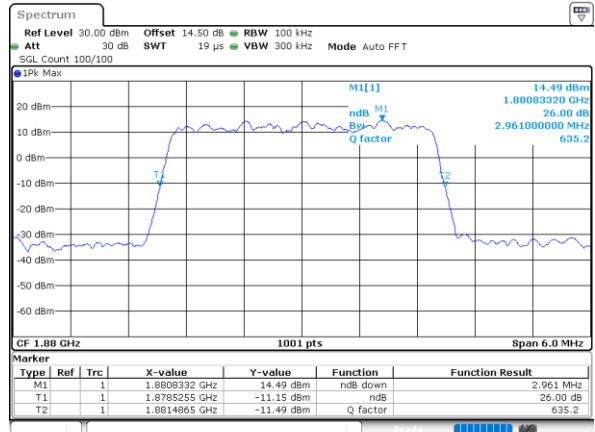
Date: 6.MAR.2023 22:50:43

Middle Channel / 1.4MHz / 64QAM



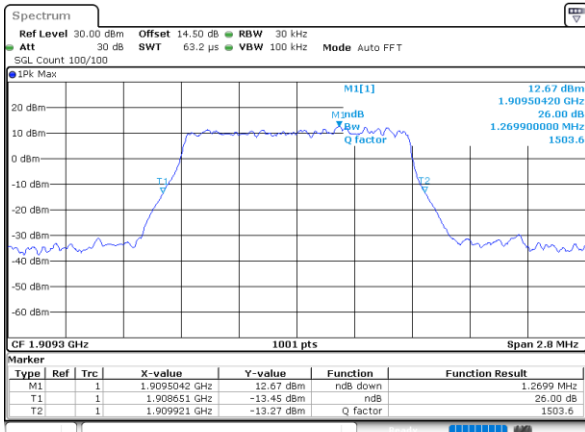
Date: 6.MAR.2023 19:19:42

Middle Channel / 3MHz / 64QAM



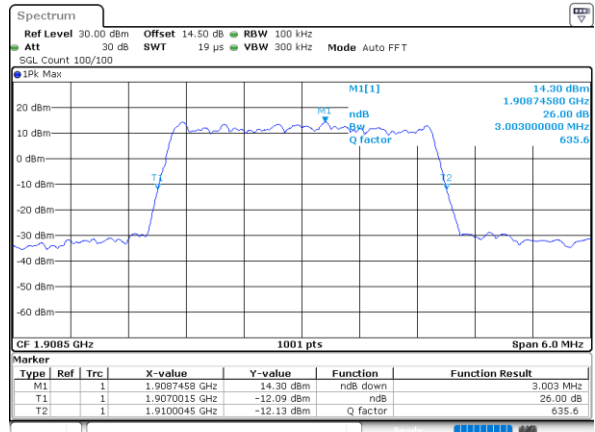
Date: 6.MAR.2023 22:54:10

Highest Channel / 1.4MHz / 64QAM



Date: 6.MAR.2023 19:21:37

Highest Channel / 3MHz / 64QAM



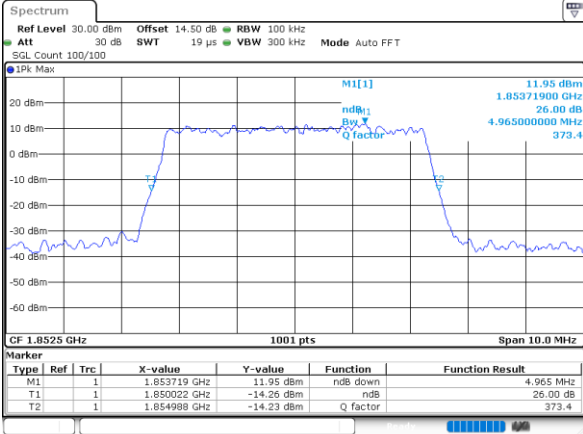
Date: 6.MAR.2023 22:56:02





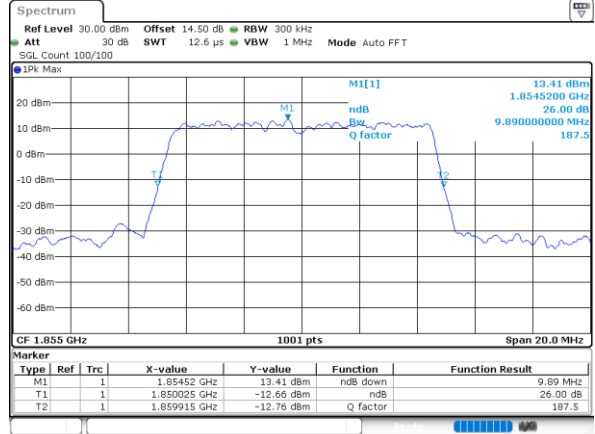
LTE Band 2

Lowest Channel / 5MHz / 64QAM



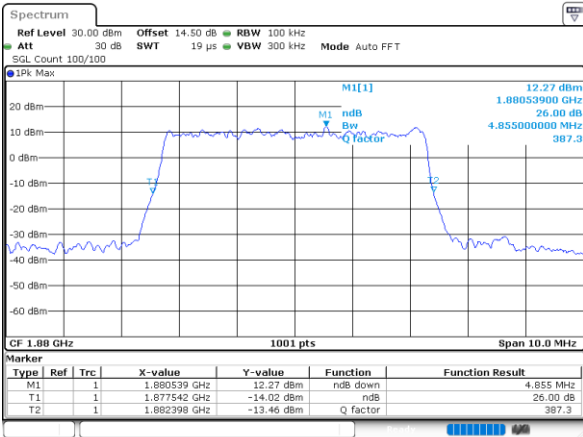
Date: 6,MAR,2023 22:59:29

Lowest Channel / 10MHz / 64QAM



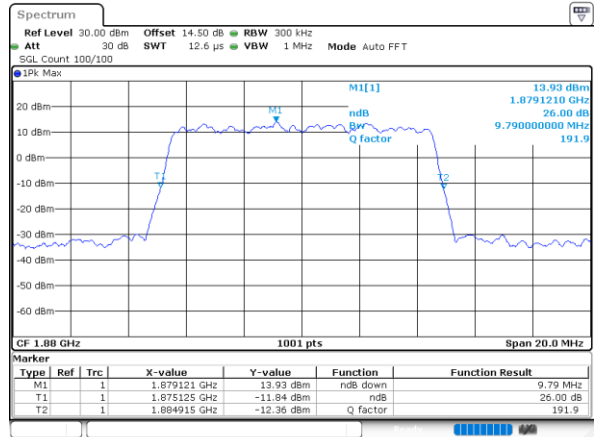
Date: 6,MAR,2023 23:09:14

Middle Channel / 5MHz / 64QAM



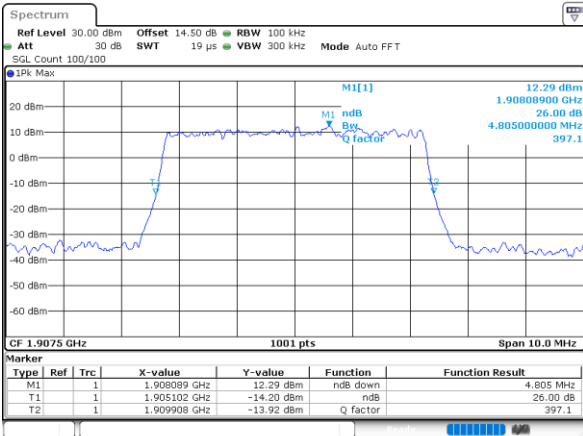
Date: 6,MAR,2023 23:02:46

Middle Channel / 10MHz / 64QAM



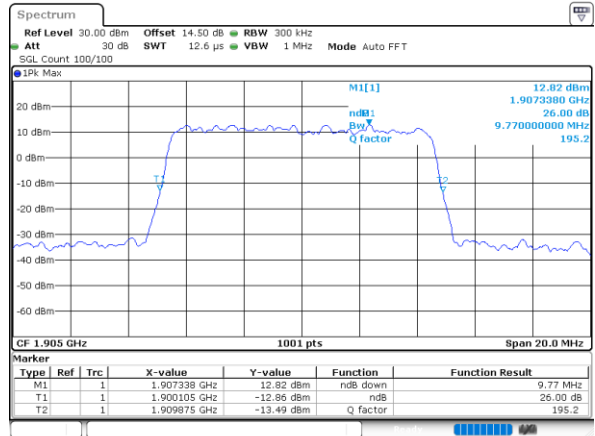
Date: 6,MAR,2023 23:12:31

Highest Channel / 5MHz / 64QAM



Date: 6,MAR,2023 23:04:38

Highest Channel / 10MHz / 64QAM

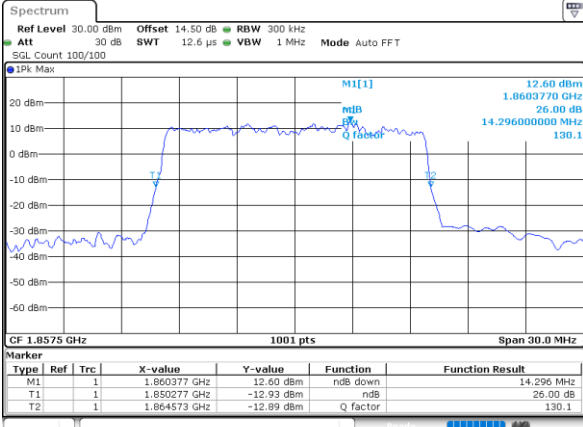


Date: 6,MAR,2023 23:14:23



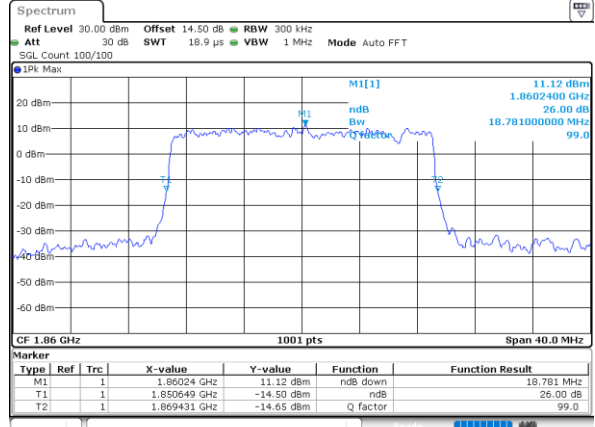
LTE Band 2

Lowest Channel / 15MHz / 64QAM



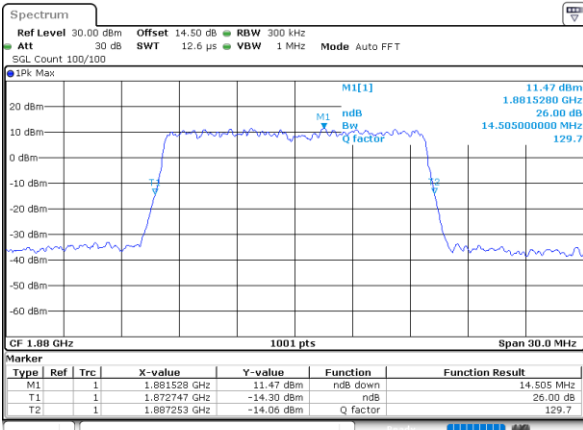
Date: 6.MAR.2023 23:17:42

Lowest Channel / 20MHz / 64QAM



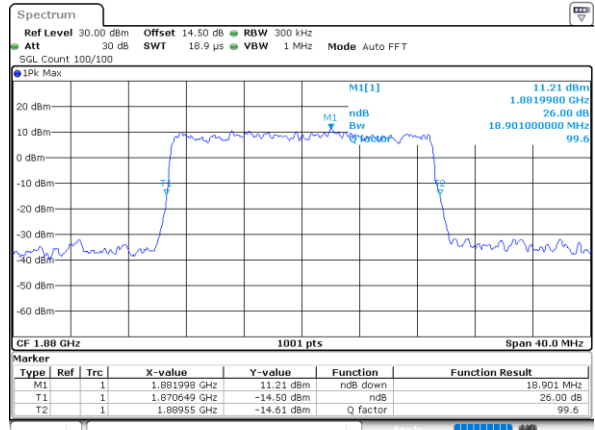
Date: 6.MAR.2023 23:26:11

Middle Channel / 15MHz / 64QAM



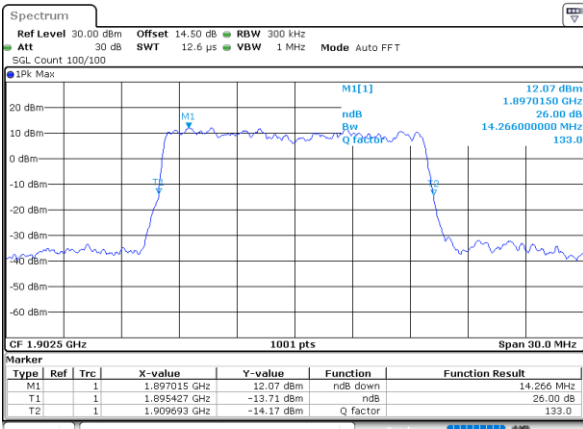
Date: 6.MAR.2023 23:21:00

Middle Channel / 20MHz / 64QAM



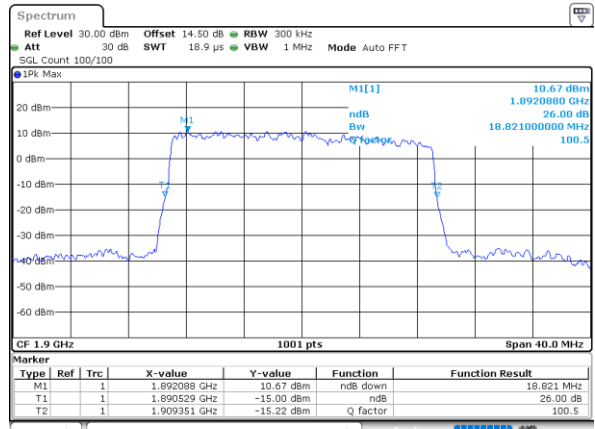
Date: 6.MAR.2023 23:29:29

Highest Channel / 15MHz / 64QAM



Date: 6.MAR.2023 23:22:53

Highest Channel / 20MHz / 64QAM



Date: 6.MAR.2023 23:31:21



Occupied Bandwidth

Mode	LTE Band 2 : 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	1.09	1.10	2.72	2.71	4.47	4.51	9.05	8.99	13.40	13.46	17.86	17.86
Middle CH	1.09	1.09	2.72	2.69	4.48	4.51	9.03	9.03	13.43	13.43	17.90	17.86
Highest CH	1.09	1.09	2.73	2.71	4.47	4.48	9.03	9.01	13.46	13.46	17.86	17.86
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.71	-	4.49	-	9.01	-	13.46	-	17.90	-
Middle CH	1.09	-	2.72	-	4.50	-	9.11	-	13.40	-	17.98	-
Highest CH	1.09	-	2.72	-	4.49	-	9.05	-	13.43	-	17.86	-