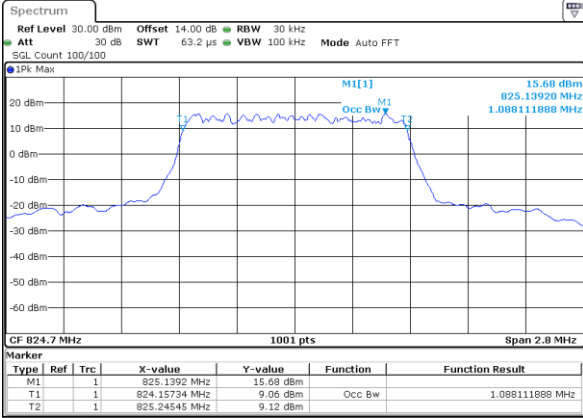




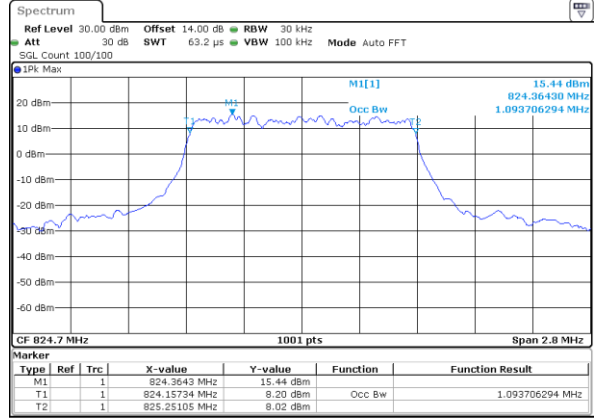
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



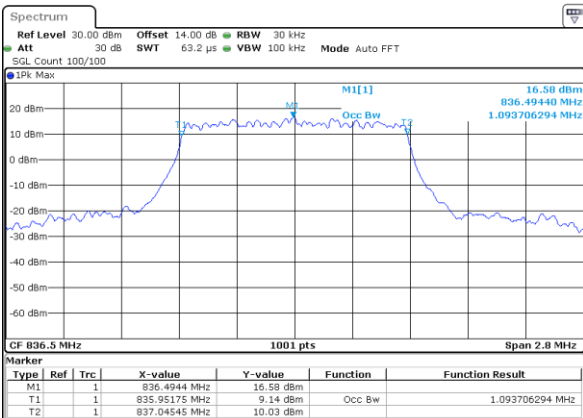
Date: 10 MAY 2023 15:42:32

Lowest Channel / 1.4MHz / 16QAM



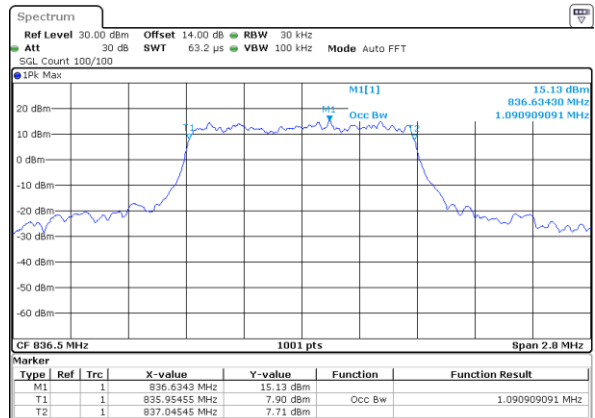
Date: 10 MAY 2023 15:42:56

Middle Channel / 1.4MHz / QPSK



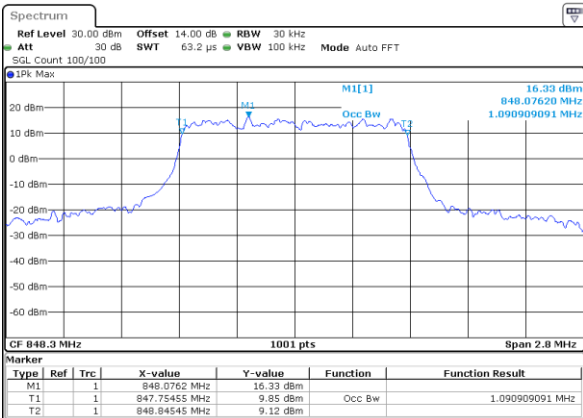
Date: 10 MAY 2023 15:59:20

Middle Channel / 1.4MHz / 16QAM



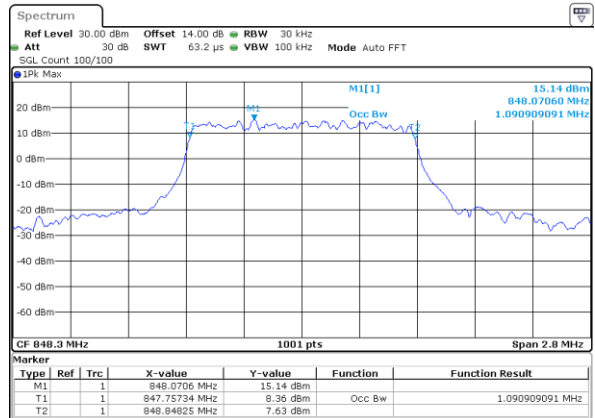
Date: 10 MAY 2023 15:59:43

Highest Channel / 1.4MHz / QPSK



Date: 10 MAY 2023 16:02:40

Highest Channel / 1.4MHz / 16QAM

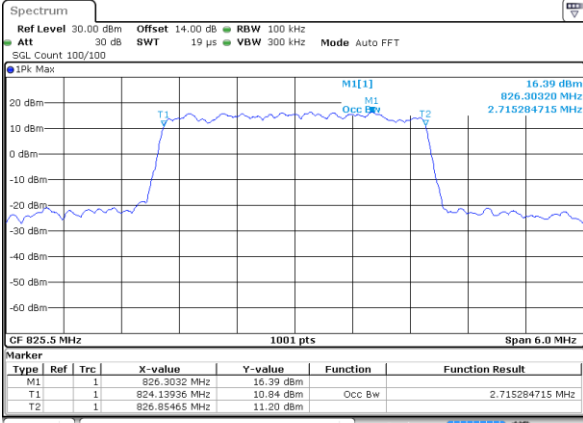


Date: 10 MAY 2023 16:03:04



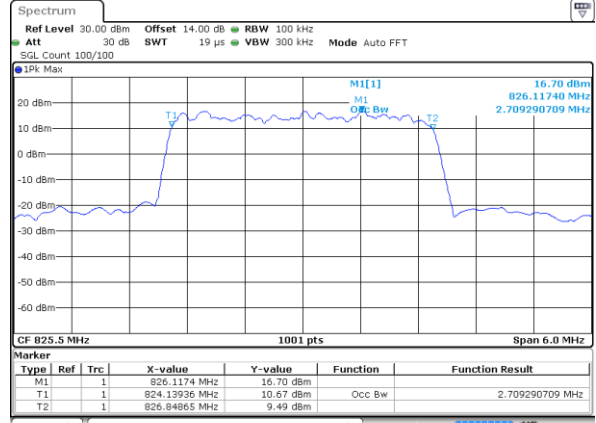
LTE Band 5

Lowest Channel / 3MHz / QPSK



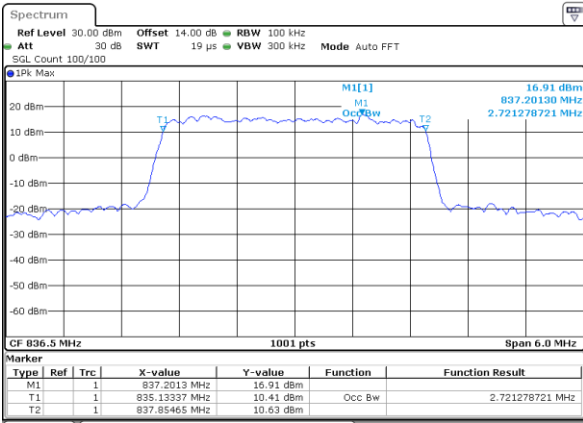
Date: 10 MAY 2023 16:13:34

Lowest Channel / 3MHz / 16QAM



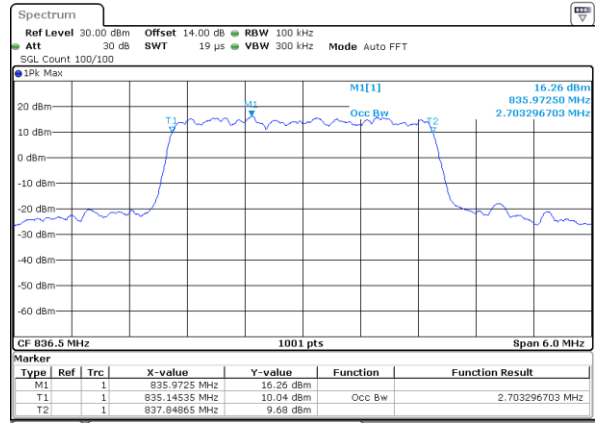
Date: 10 MAY 2023 16:13:58

Middle Channel / 3MHz / QPSK



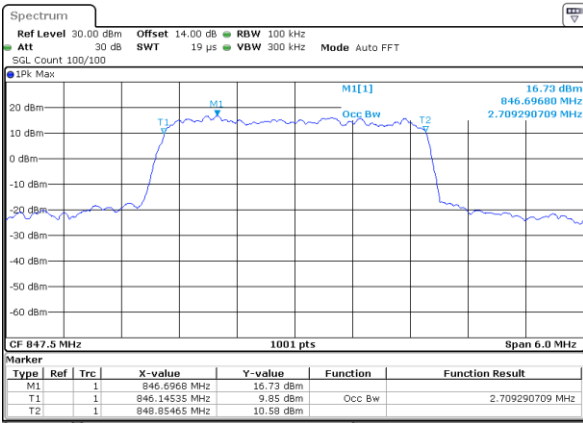
Date: 10 MAY 2023 16:24:29

Middle Channel / 3MHz / 16QAM



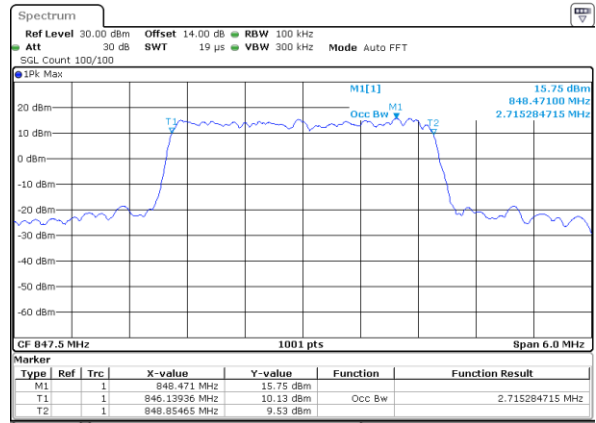
Date: 10 MAY 2023 16:24:52

Highest Channel / 3MHz / QPSK



Date: 10 MAY 2023 16:27:49

Highest Channel / 3MHz / 16QAM

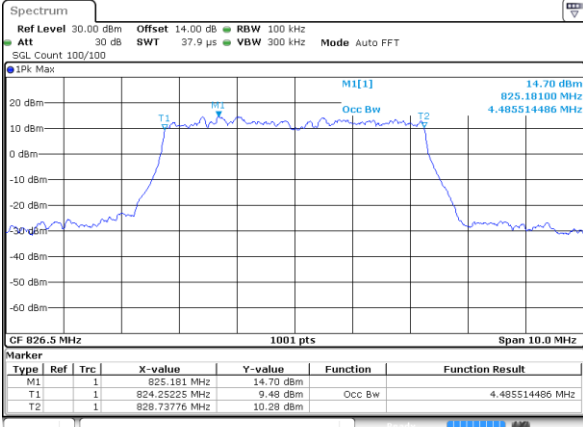


Date: 10 MAY 2023 16:28:13



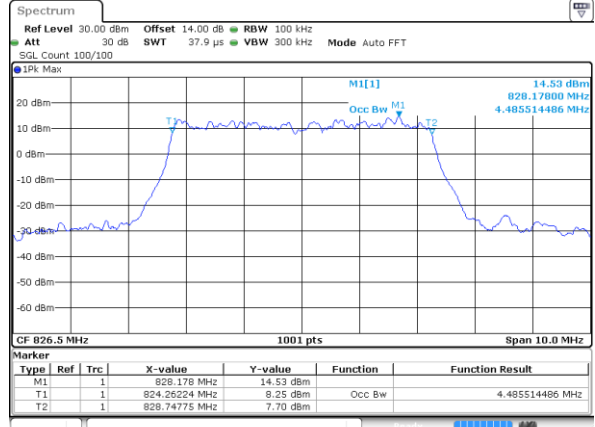
LTE Band 5

Lowest Channel / 5MHz / QPSK



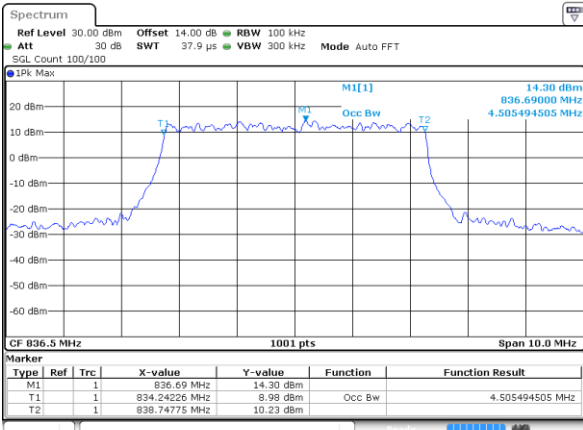
Date: 10 MAY 2023 16:38:45

Lowest Channel / 5MHz / 16QAM



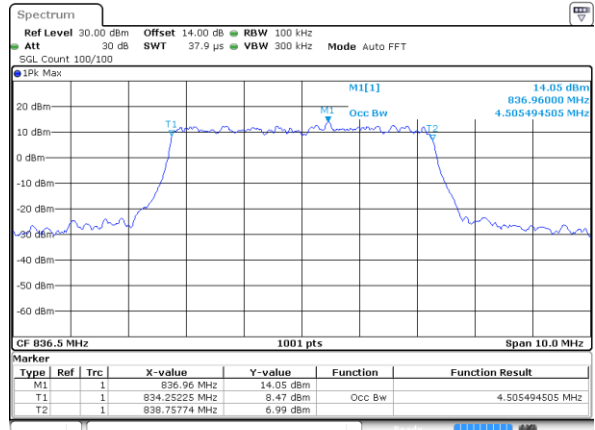
Date: 10 MAY 2023 16:38:09

Middle Channel / 5MHz / QPSK



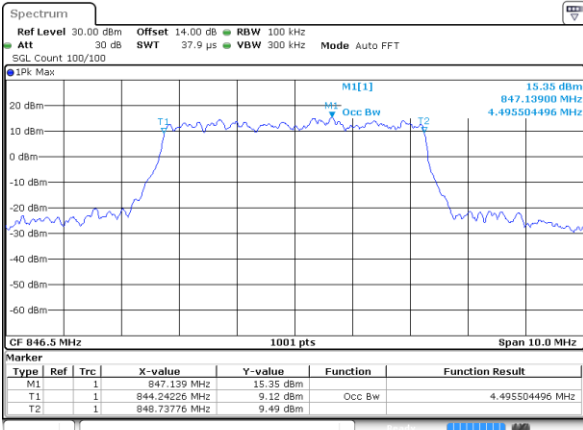
Date: 10 MAY 2023 16:49:38

Middle Channel / 5MHz / 16QAM



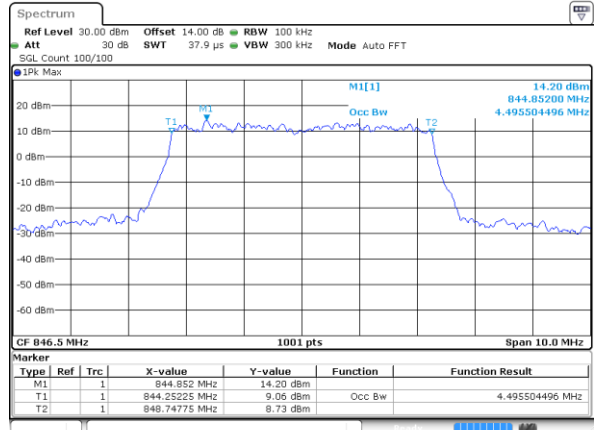
Date: 10 MAY 2023 16:50:01

Highest Channel / 5MHz / QPSK



Date: 10 MAY 2023 16:52:57

Highest Channel / 5MHz / 16QAM

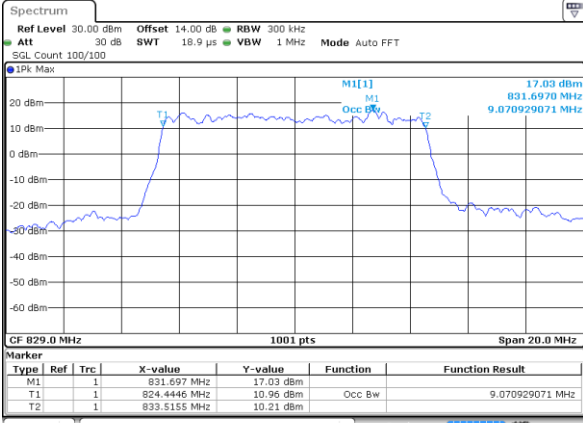


Date: 10 MAY 2023 16:53:21



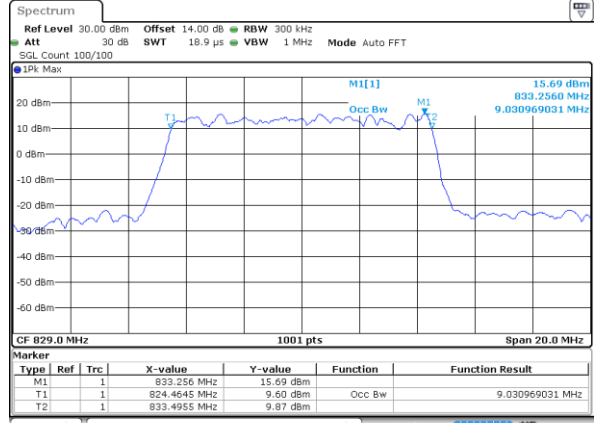
LTE Band 5

Lowest Channel / 10MHz / QPSK



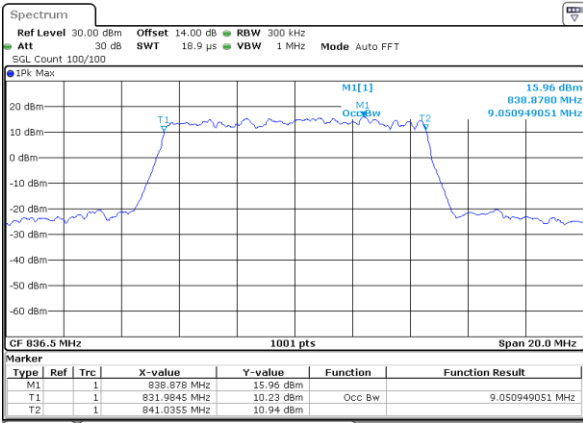
Date: 10 MAY 2023 17:03:56

Lowest Channel / 10MHz / 16QAM



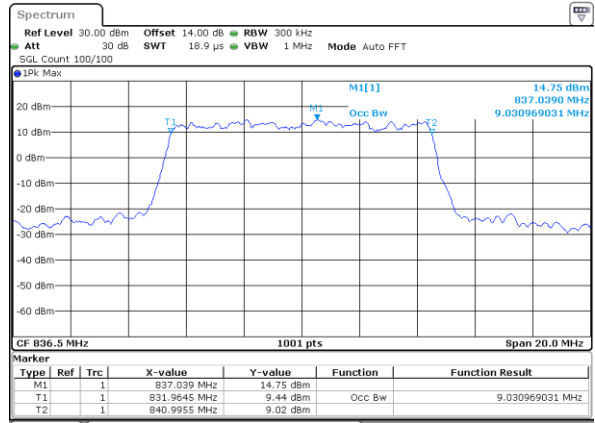
Date: 10 MAY 2023 17:04:20

Middle Channel / 10MHz / QPSK



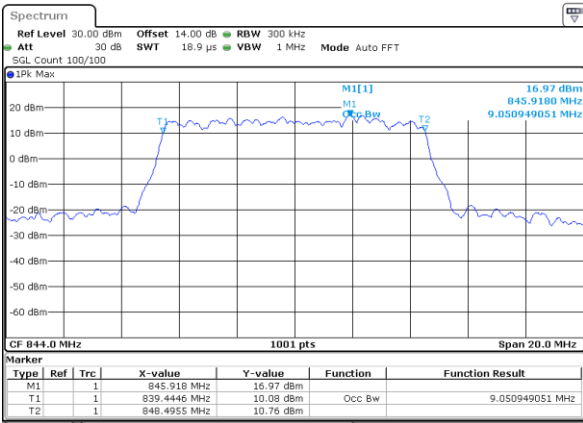
Date: 10 MAY 2023 17:14:51

Middle Channel / 10MHz / 16QAM



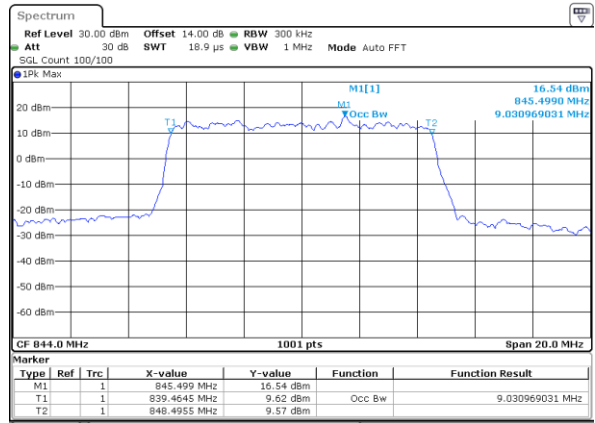
Date: 10 MAY 2023 17:15:14

Highest Channel / 10MHz / QPSK



Date: 10 MAY 2023 17:18:13

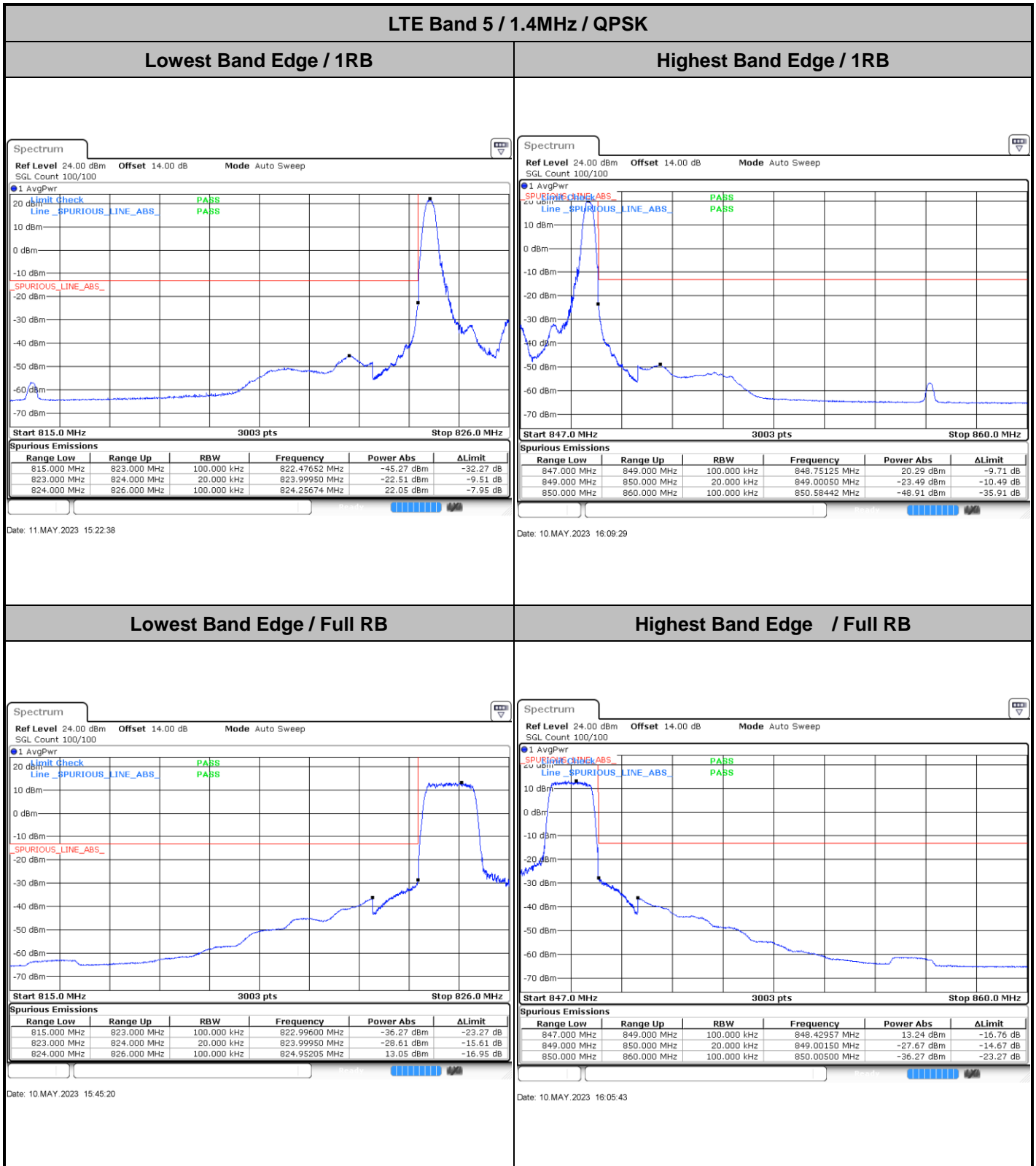
Highest Channel / 10MHz / 16QAM



Date: 10 MAY 2023 17:18:37



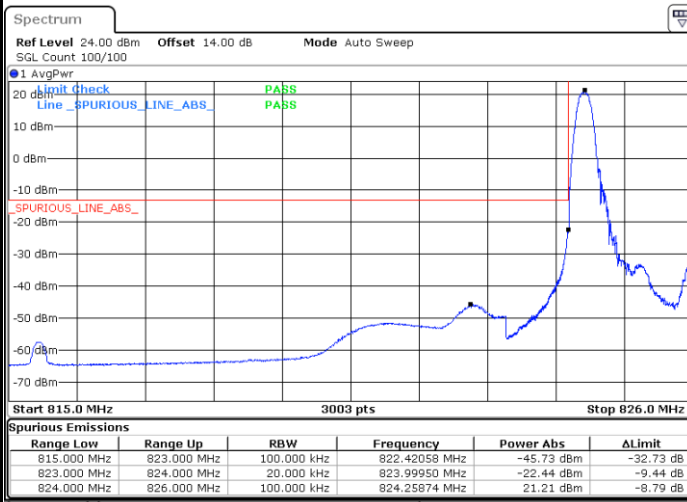
Conducted Band Edge





LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



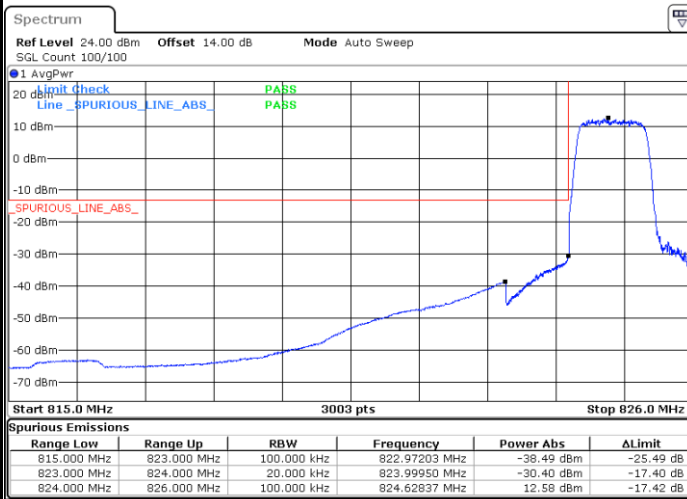
Date: 11.MAY.2023 15:24:15

Highest Band Edge / 1 RB



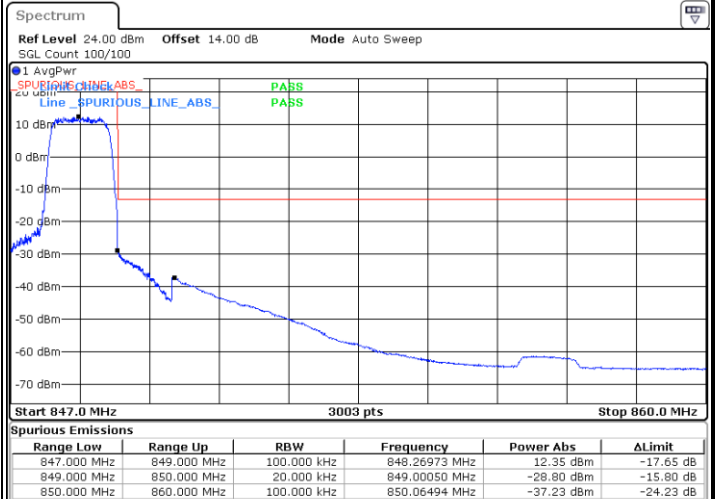
Date: 10.MAY.2023 16:11:23

Lowest Band Edge / Full RB



Date: 10.MAY.2023 15:47:12

Highest Band Edge / Full RB

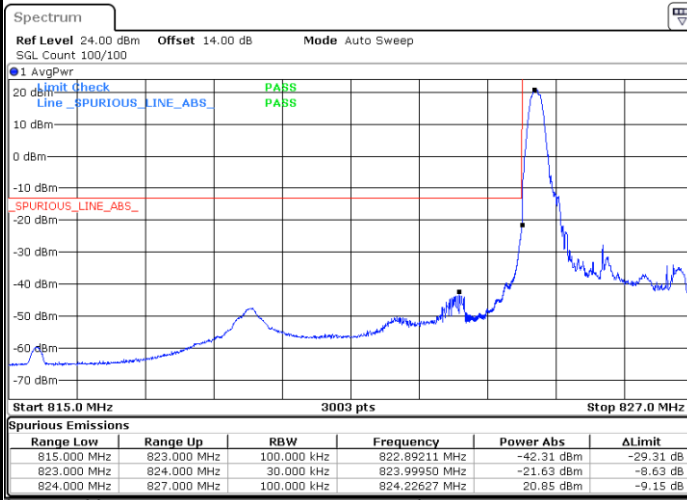


Date: 10.MAY.2023 16:07:36



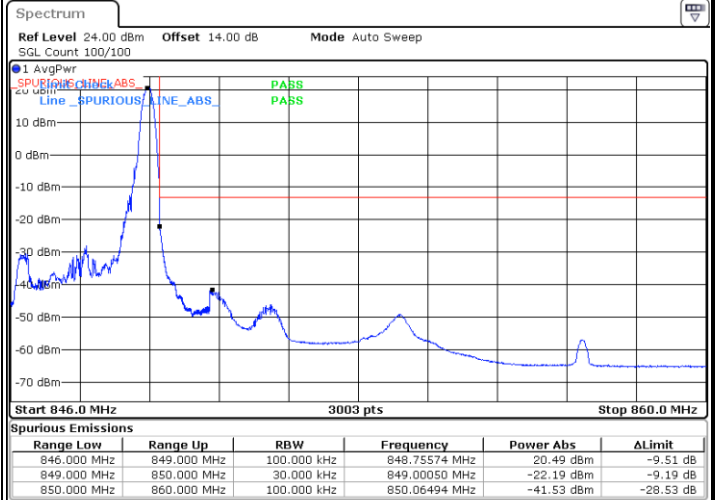
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



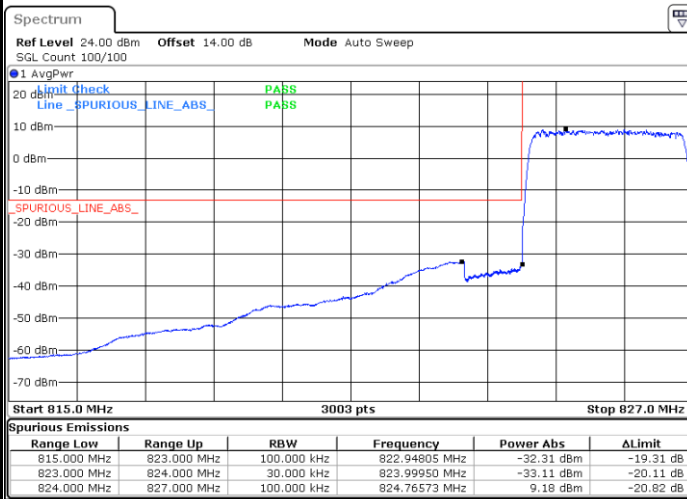
Date: 10.MAY.2023 16:16:39

Highest Band Edge / 1 RB



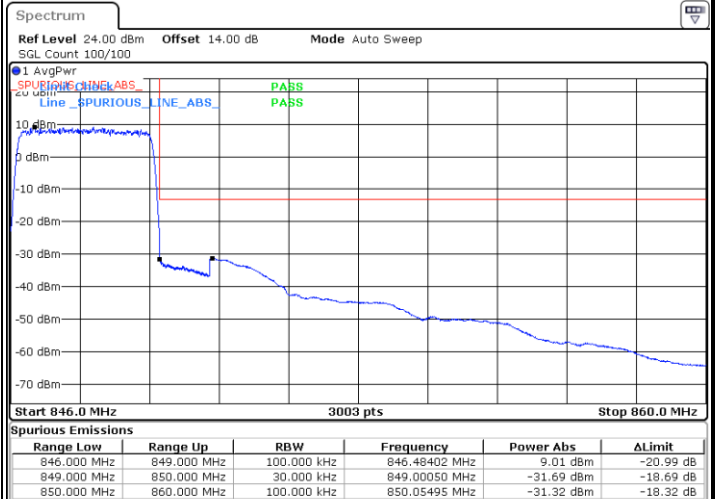
Date: 10.MAY.2023 16:30:53

Lowest Band Edge / Full RB



Date: 10.MAY.2023 16:20:25

Highest Band Edge / Full RB

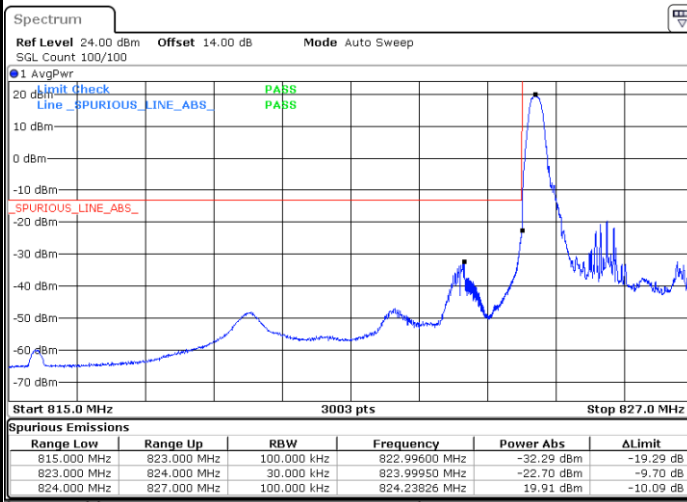


Date: 10.MAY.2023 16:34:41



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



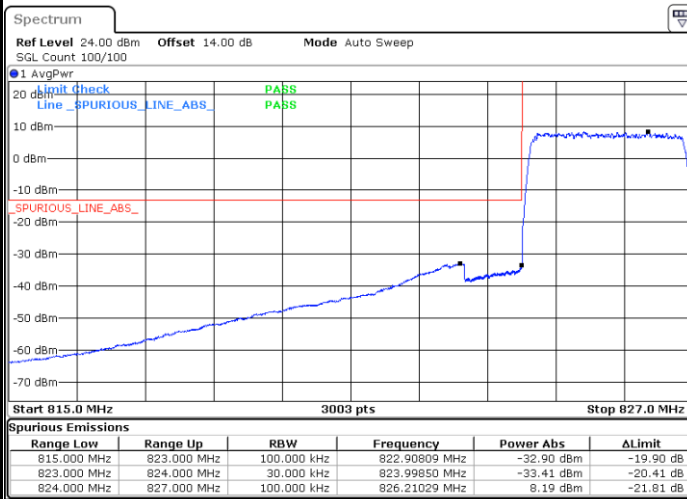
Date: 10.MAY.2023 16:18:32

Highest Band Edge / 1 RB



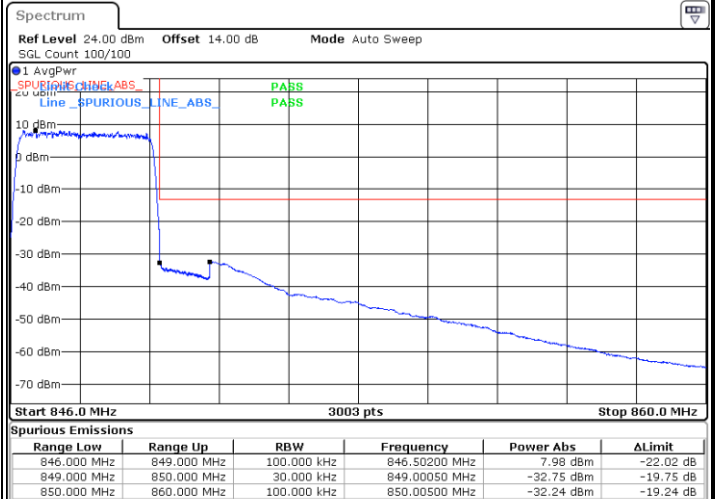
Date: 10.MAY.2023 16:32:47

Lowest Band Edge / Full RB



Date: 10.MAY.2023 16:22:18

Highest Band Edge / Full RB

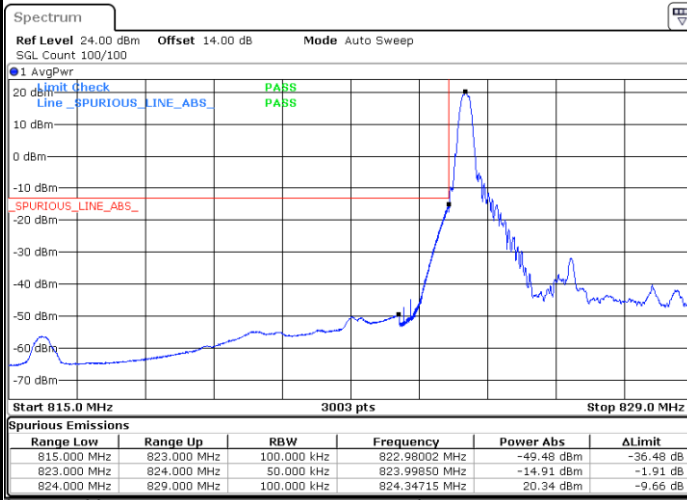


Date: 10.MAY.2023 16:36:34



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



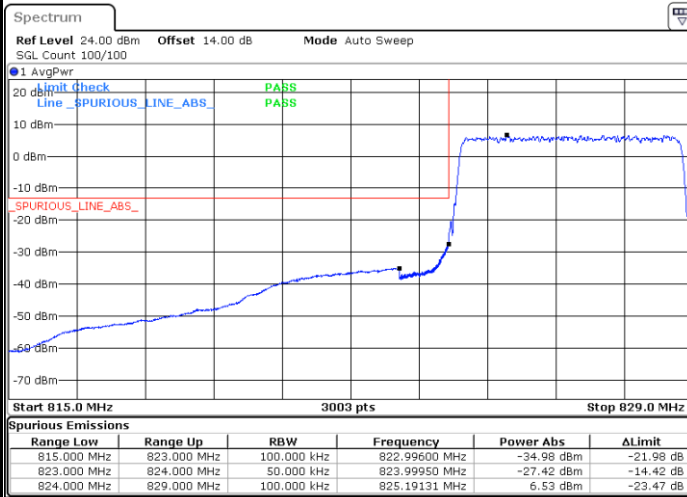
Date: 10.MAY.2023 16:41:50

Highest Band Edge / 1 RB



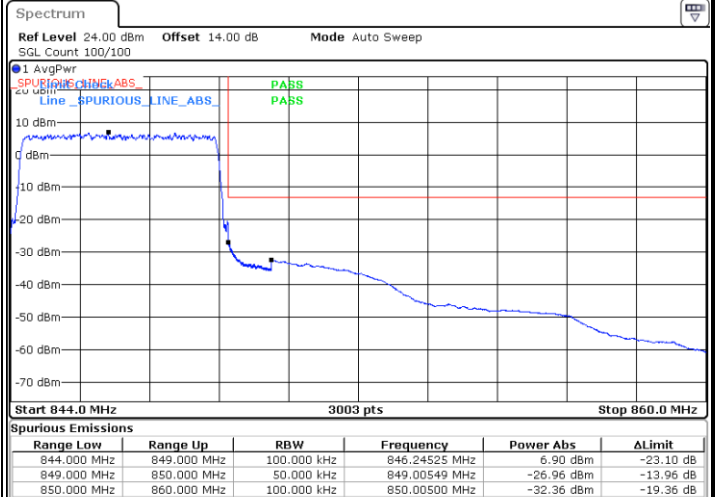
Date: 10.MAY.2023 16:56:01

Lowest Band Edge / Full RB



Date: 10.MAY.2023 16:45:35

Highest Band Edge / Full RB

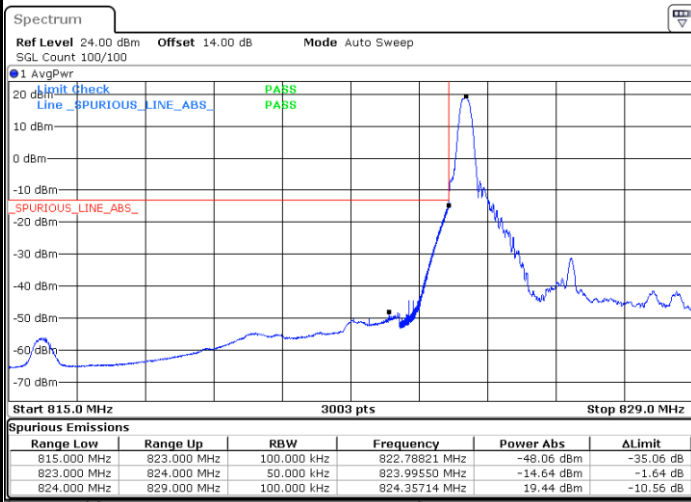


Date: 10.MAY.2023 16:59:49



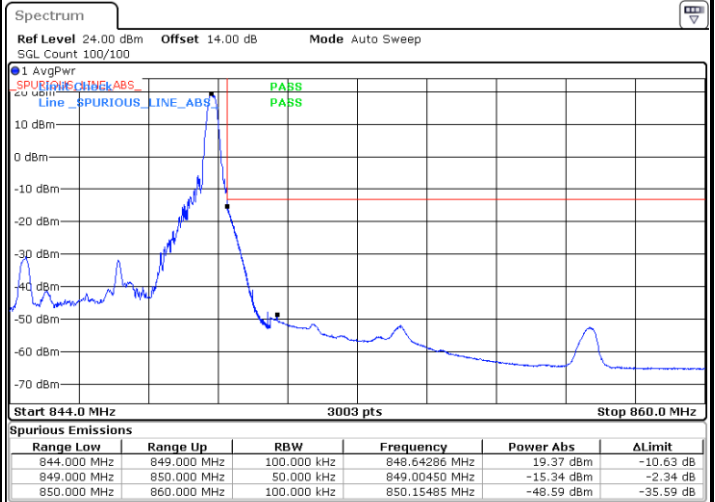
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



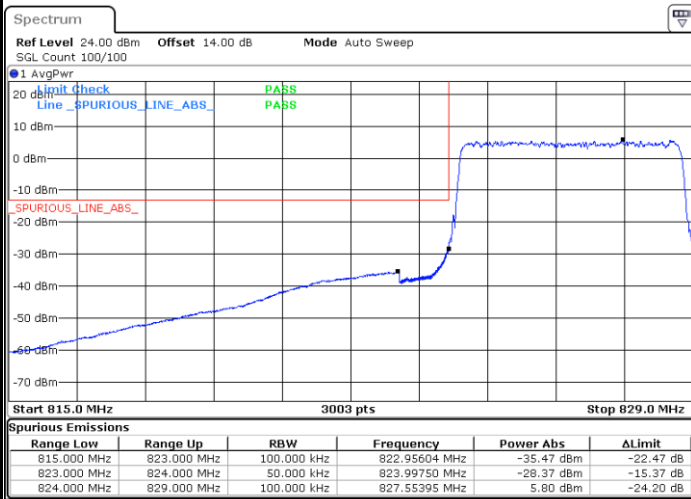
Date: 10.MAY.2023 16:43:42

Highest Band Edge / 1 RB



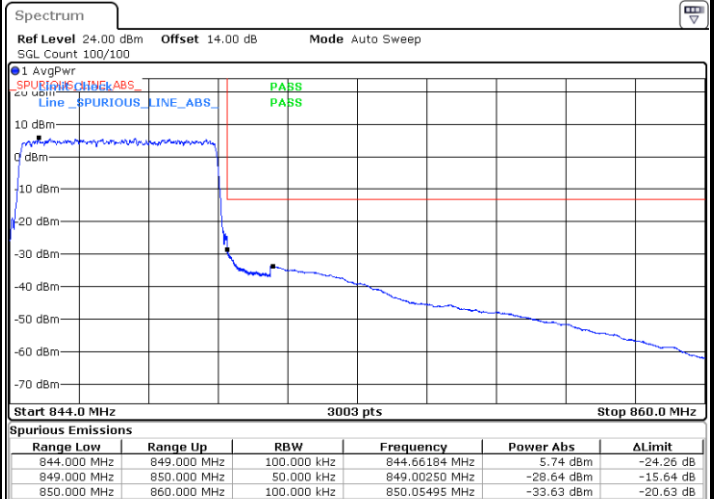
Date: 10.MAY.2023 16:57:54

Lowest Band Edge / Full RB



Date: 10.MAY.2023 16:47:28

Highest Band Edge / Full RB

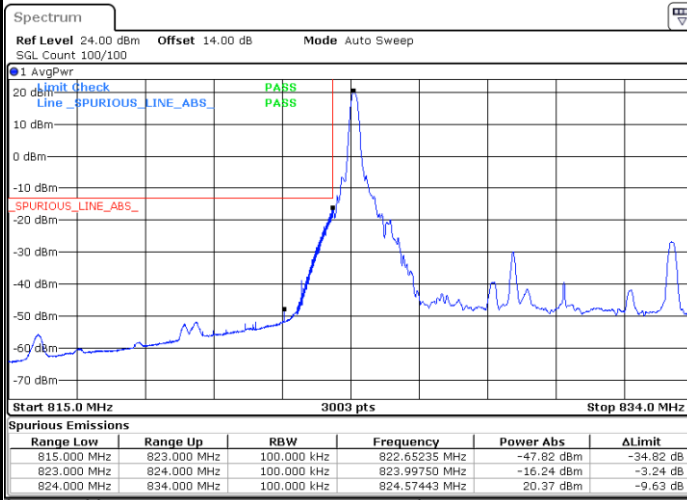


Date: 10.MAY.2023 17:01:42



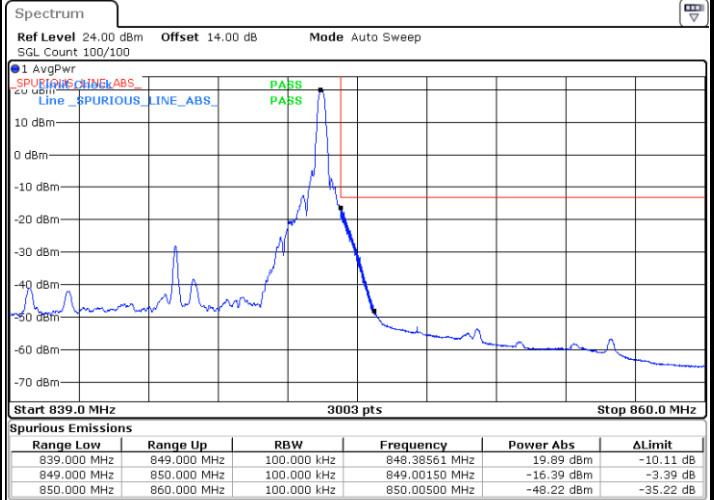
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



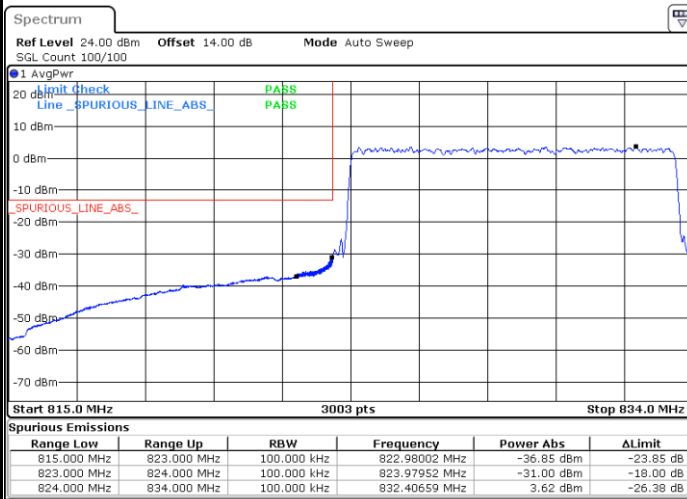
Date: 10.MAY.2023 17:07:00

Highest Band Edge / 1 RB



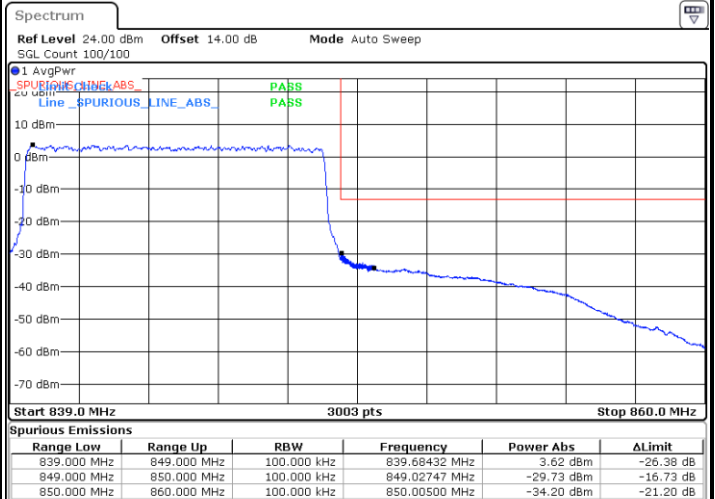
Date: 10.MAY.2023 17:21:17

Lowest Band Edge / Full RB



Date: 10.MAY.2023 17:10:46

Highest Band Edge / Full RB

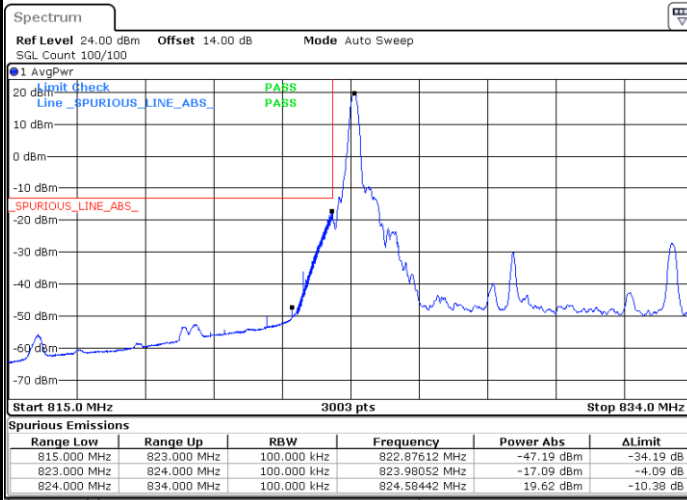


Date: 10.MAY.2023 17:25:04



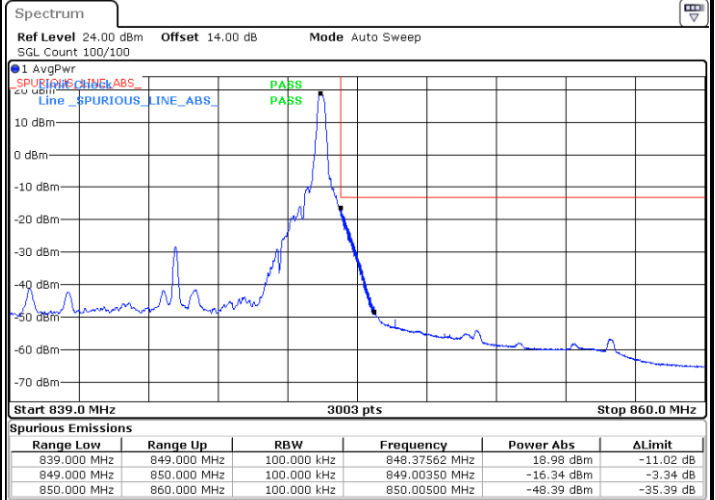
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



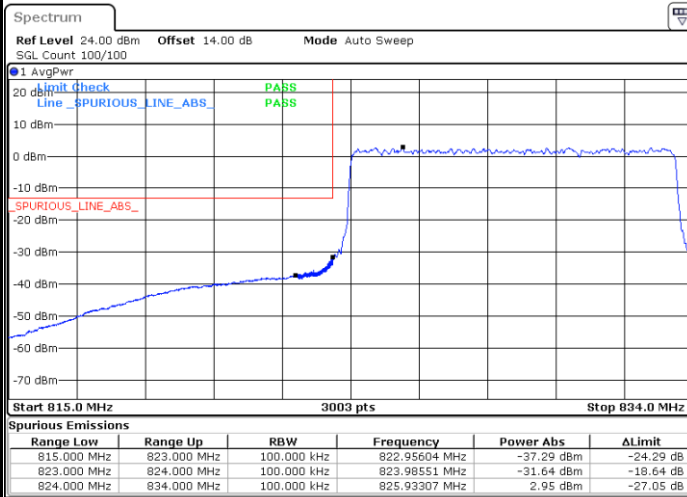
Date: 10.MAY.2023 17:08:53

Highest Band Edge / 1 RB



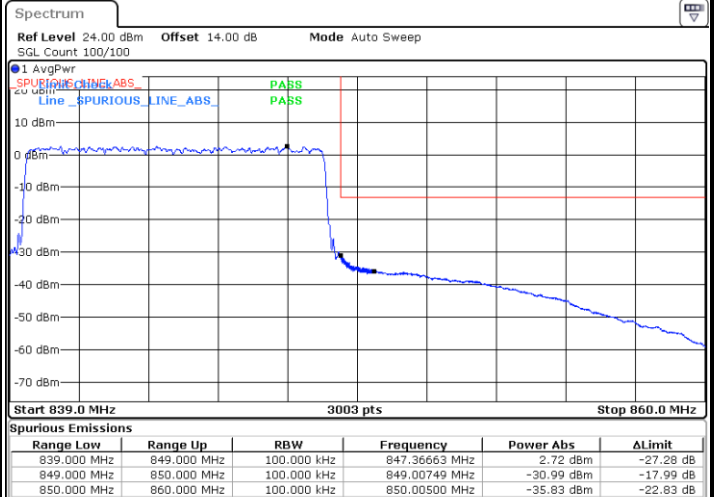
Date: 10.MAY.2023 17:23:10

Lowest Band Edge / Full RB



Date: 10.MAY.2023 17:12:39

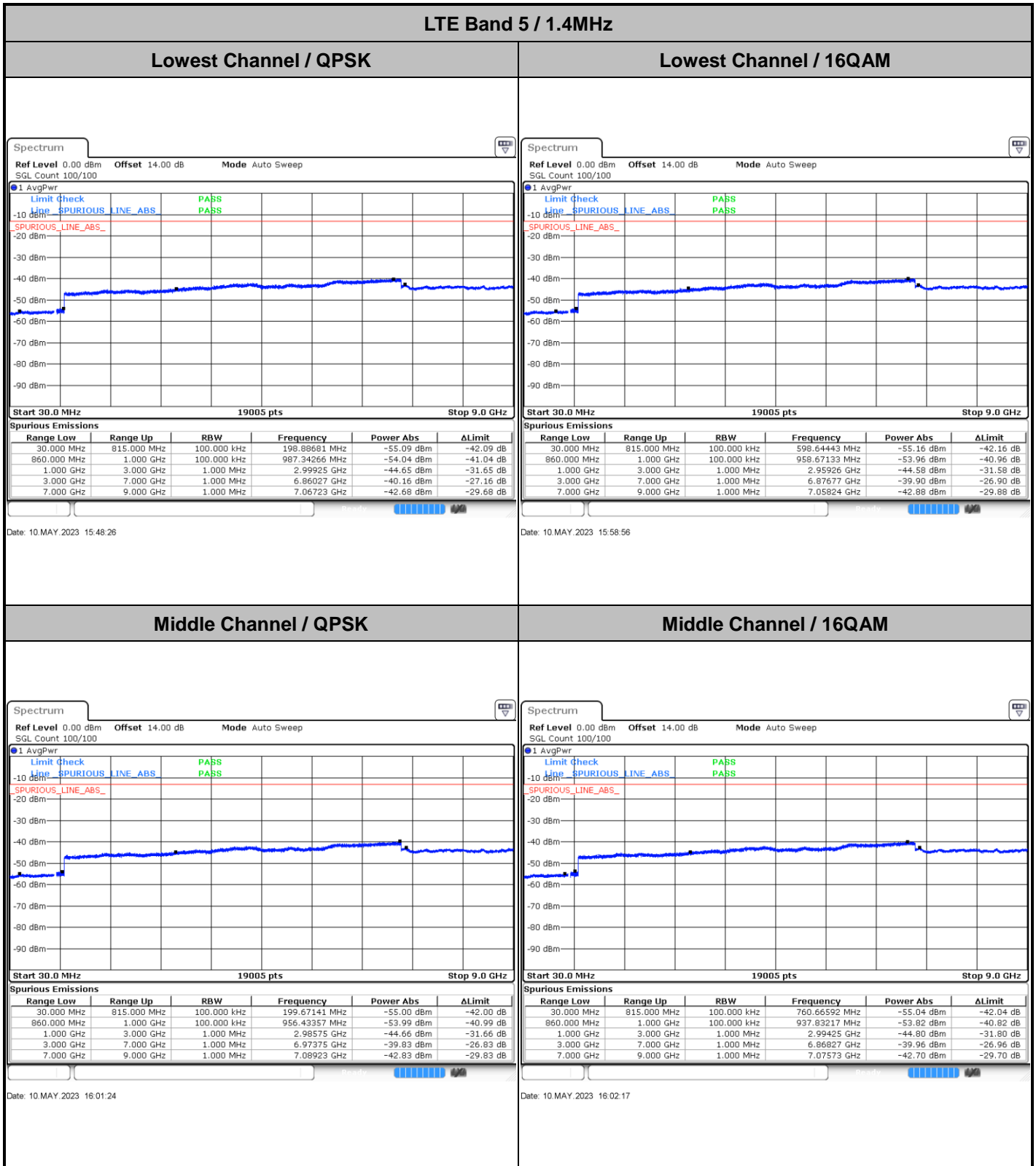
Highest Band Edge / Full RB



Date: 10.MAY.2023 17:26:57



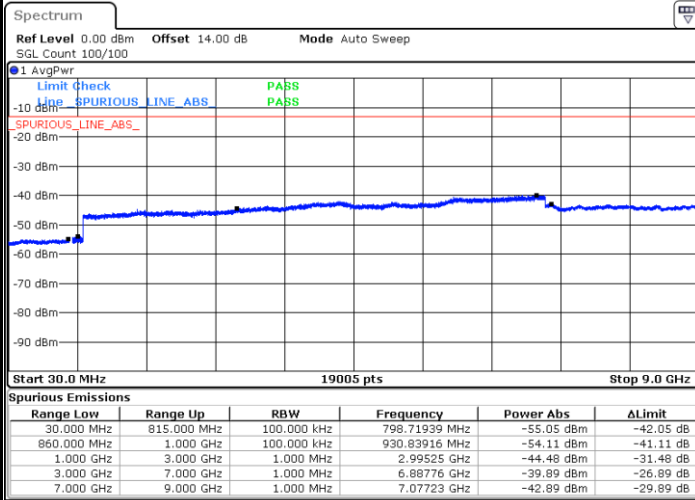
Conducted Spurious Emission





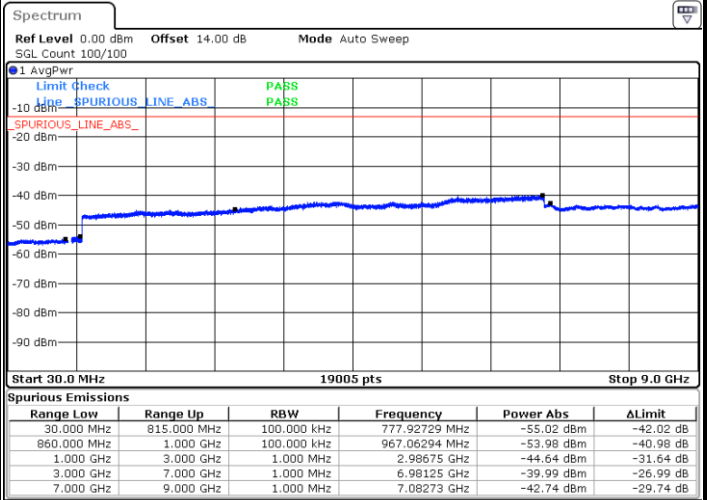
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 10.MAY.2023 16:12:16

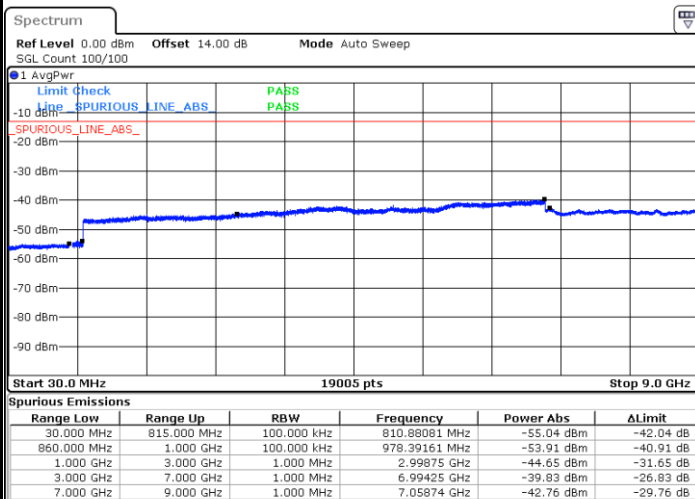
Highest Channel / 16QAM



Date: 10.MAY.2023 16:13:10

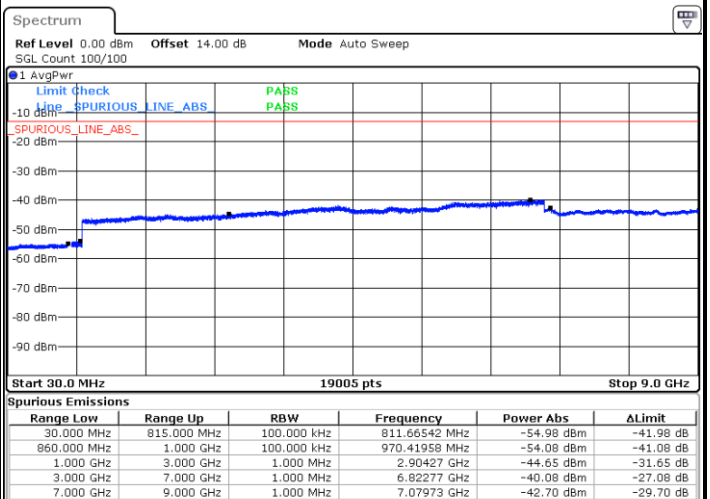
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 10.MAY.2023 16:23:11

Lowest Channel / 16QAM



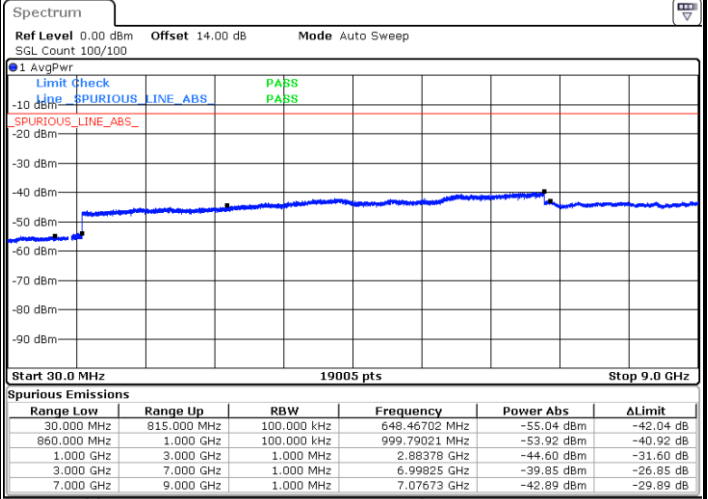
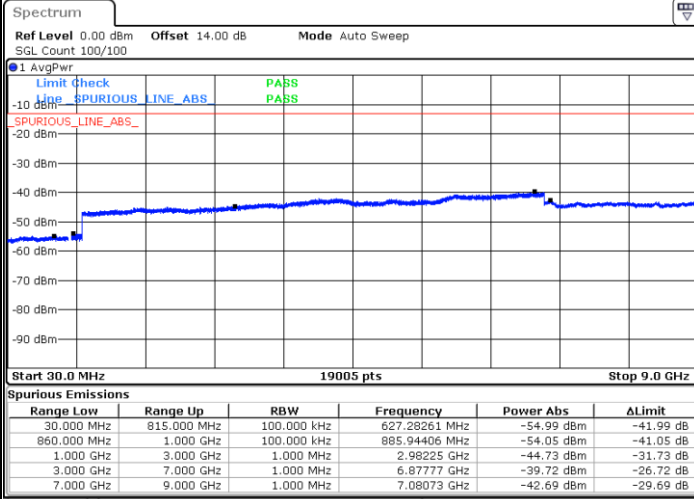
Date: 10.MAY.2023 16:24:06



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

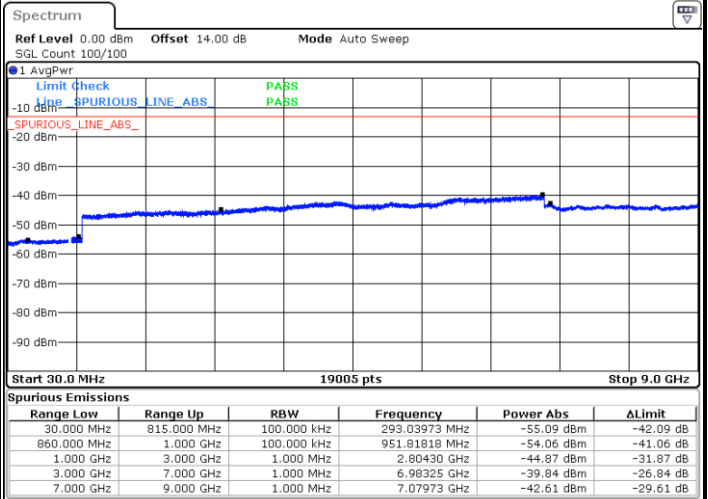
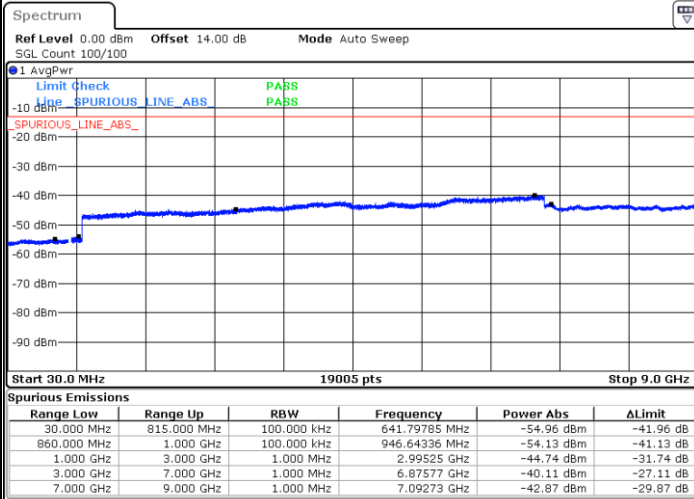


Date: 10.MAY.2023 16:26:32

Date: 10.MAY.2023 16:27:25

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.MAY.2023 16:37:28

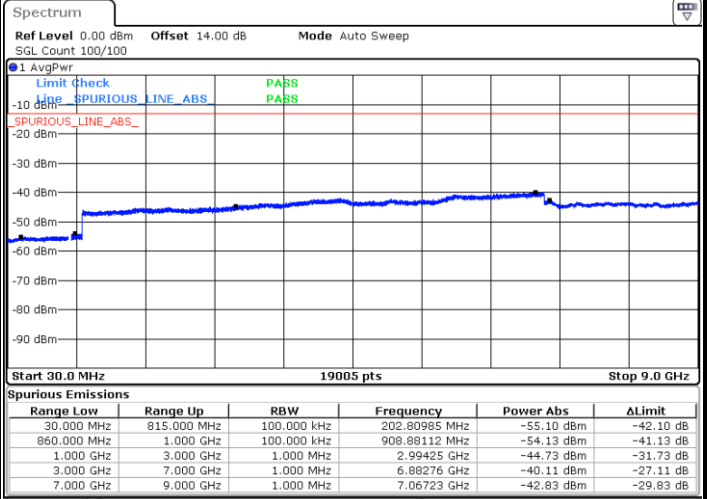
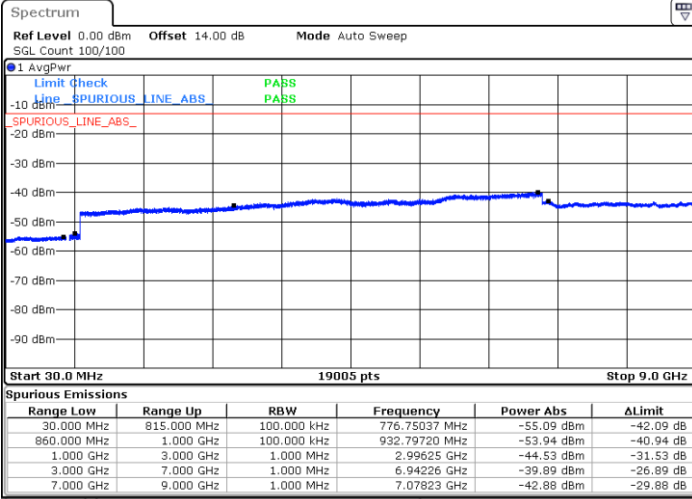
Date: 10.MAY.2023 16:38:21



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

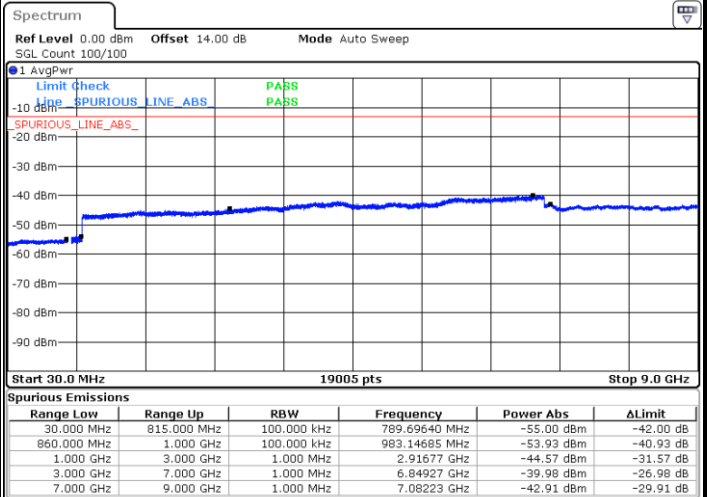
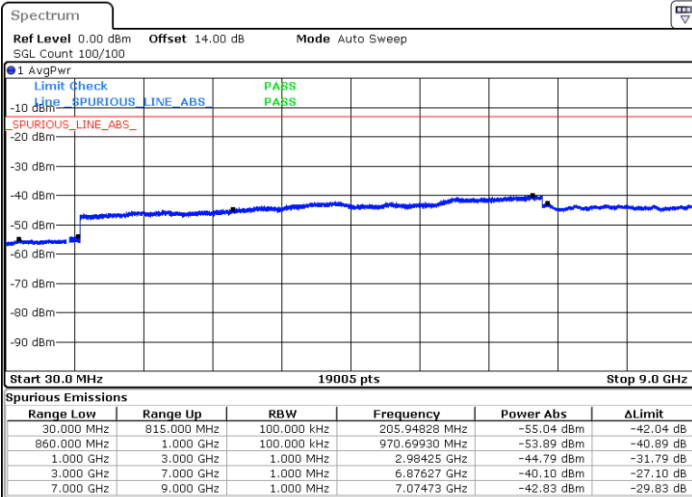


Date: 10.MAY.2023 16:48:21

Date: 10.MAY.2023 16:49:14

Middle Channel / QPSK

Middle Channel / 16QAM



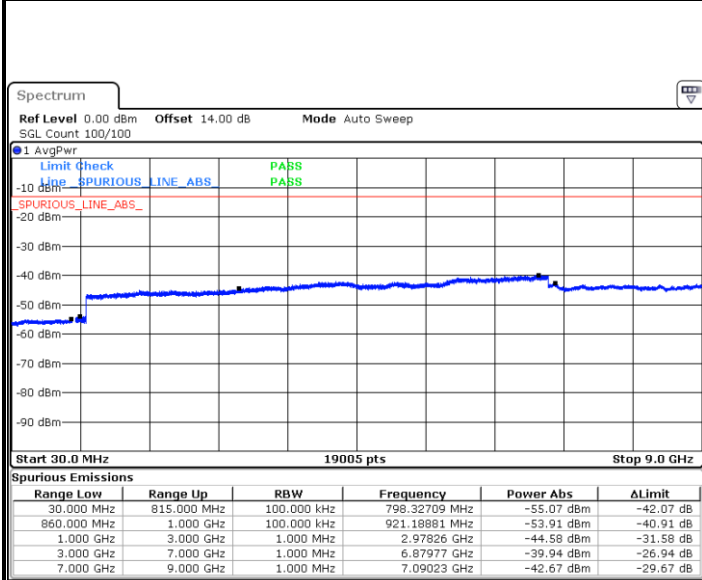
Date: 10.MAY.2023 16:51:40

Date: 10.MAY.2023 16:52:34



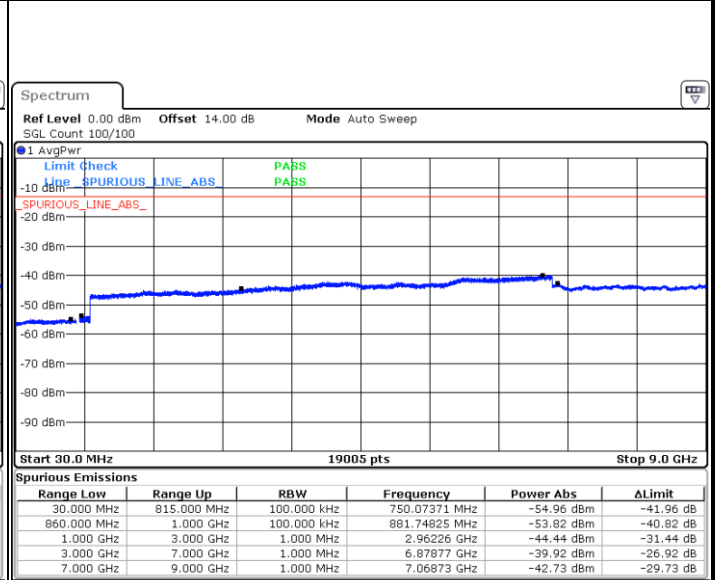
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 10.MAY.2023 17:02:38

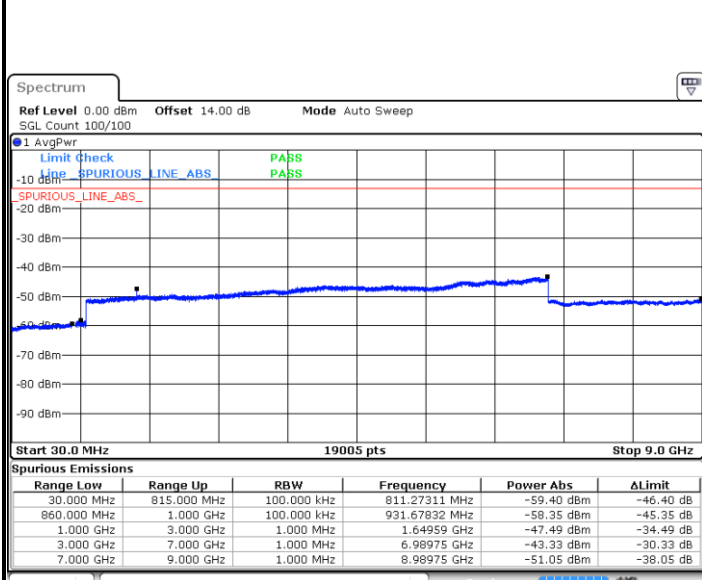
Highest Channel / 16QAM



Date: 10.MAY.2023 17:03:32

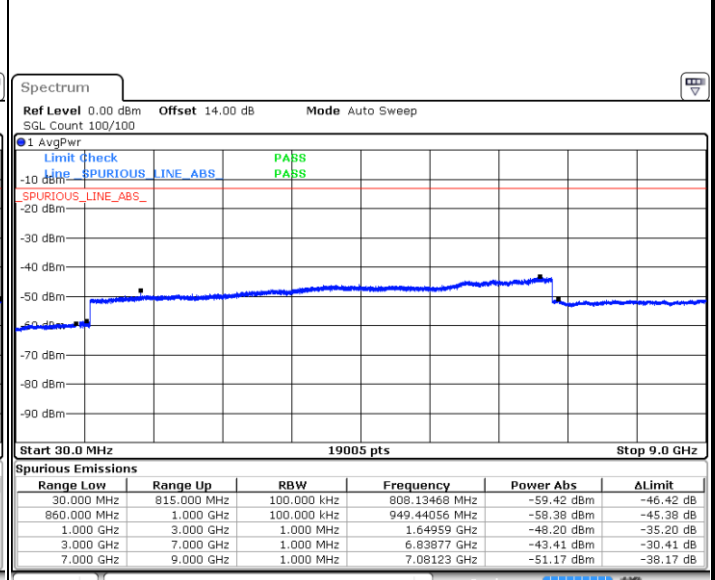
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 10.MAY.2023 17:13:32

Lowest Channel / 16QAM



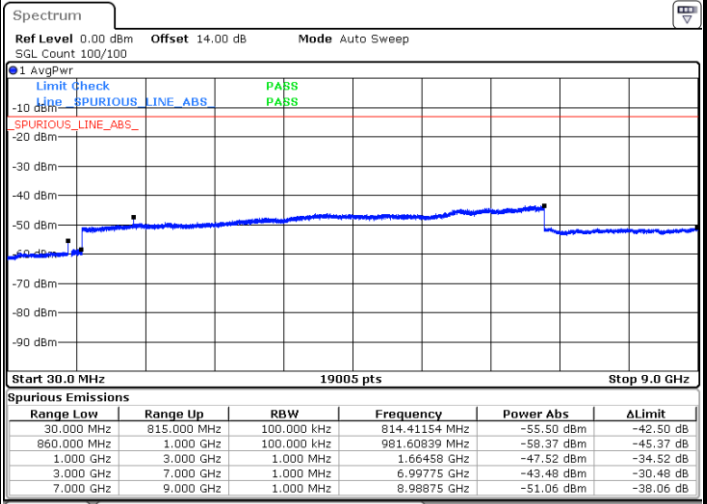
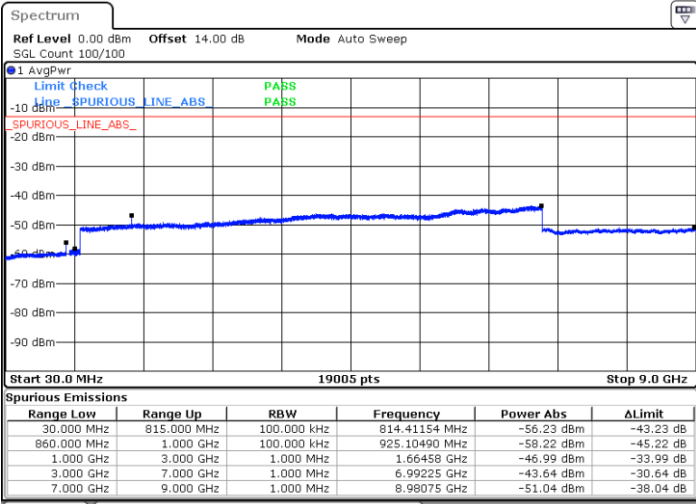
Date: 10.MAY.2023 17:14:27



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

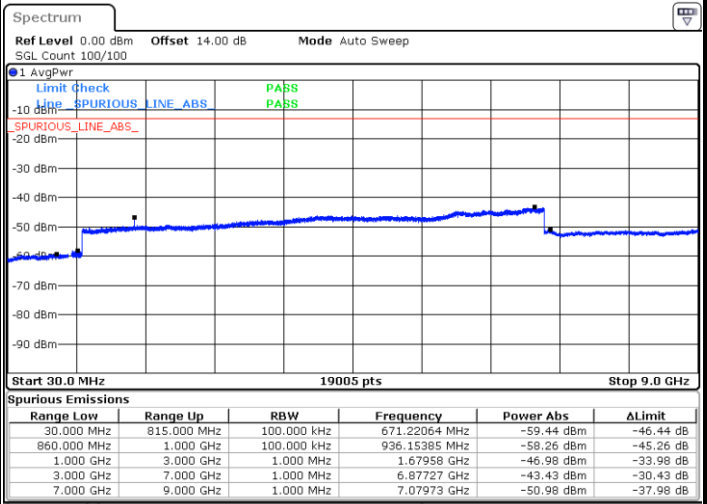
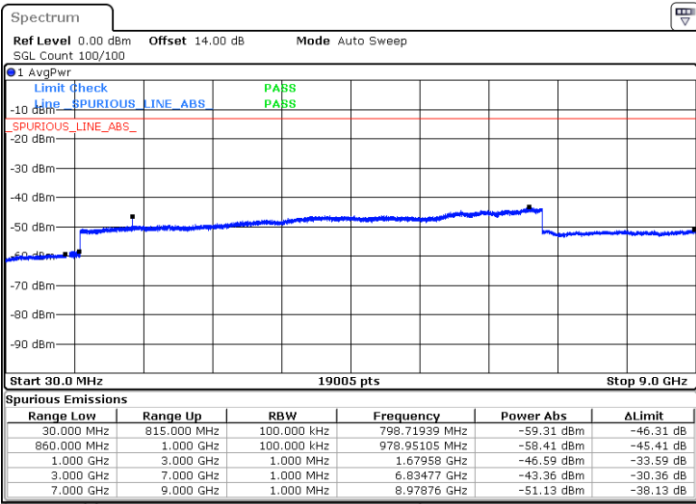


Date: 10.MAY.2023 17:16:55

Date: 10.MAY.2023 17:17:49

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.MAY.2023 17:27:52

Date: 10.MAY.2023 17:28:46



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0159	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0149	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0146	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

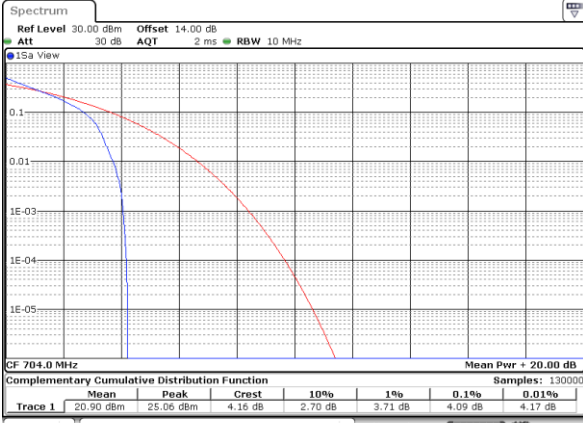
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.09	4.81	5.07	5.80	PASS
Middle CH	4.43	4.87	5.39	5.71	
Highest CH	3.62	4.75	4.67	5.65	



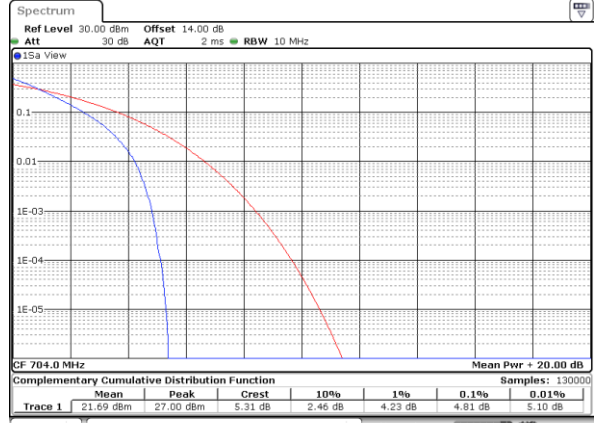
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



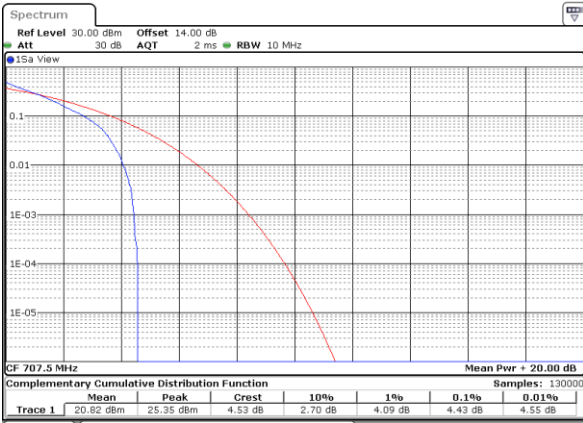
Date: 10 MAY 2023 18:54:38

Lowest Channel / Full RB



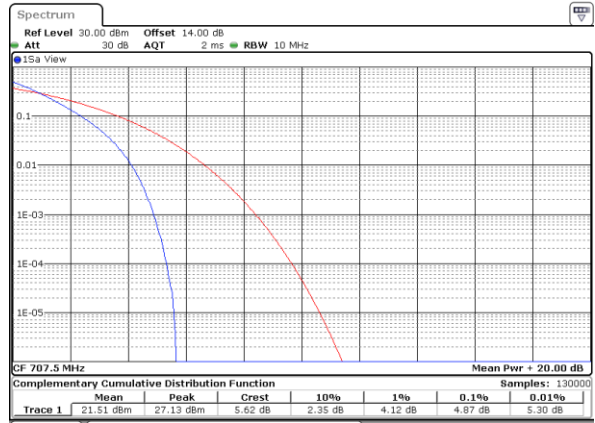
Date: 10 MAY 2023 18:54:13

Middle Channel / 1RB



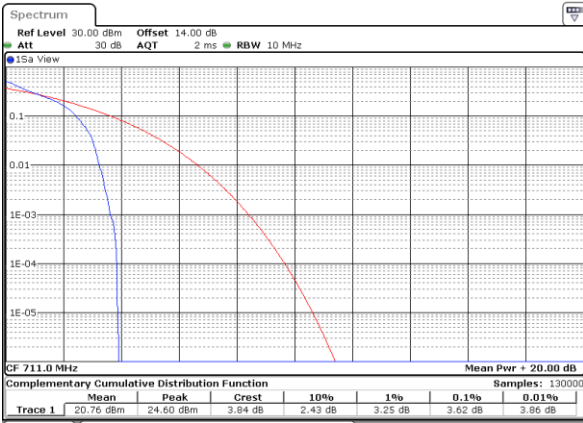
Date: 10 MAY 2023 18:55:02

Middle Channel / Full RB



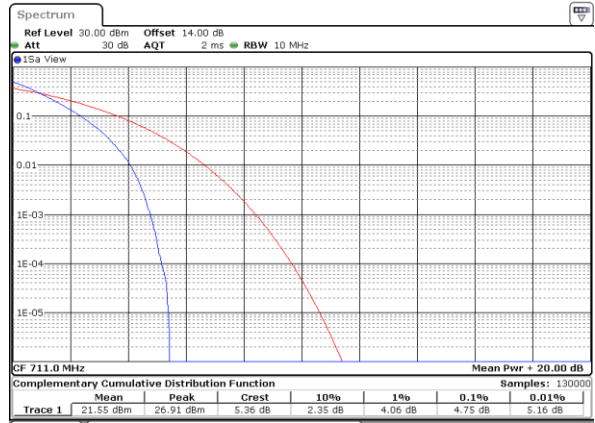
Date: 10 MAY 2023 18:55:27

Highest Channel / 1RB



Date: 10 MAY 2023 18:56:16

Highest Channel / Full RB

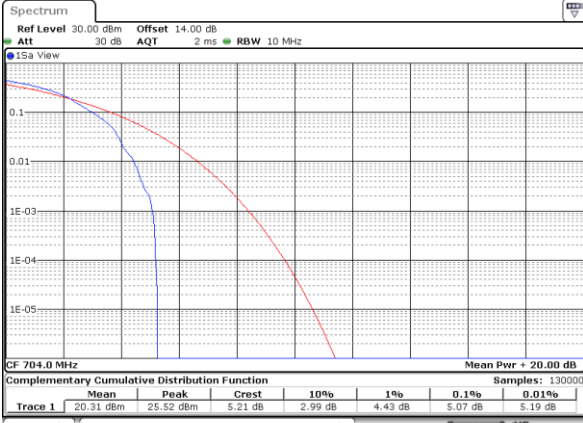


Date: 10 MAY 2023 18:55:51



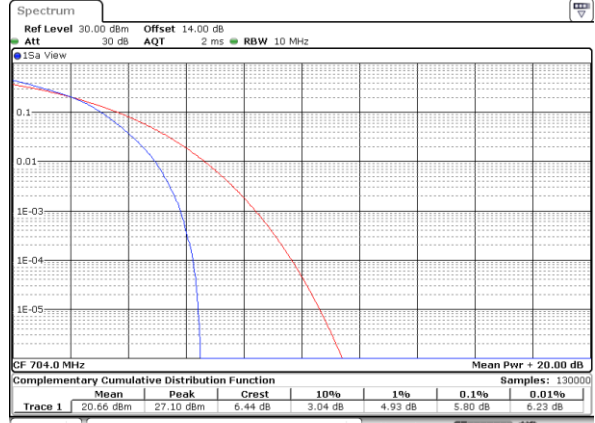
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



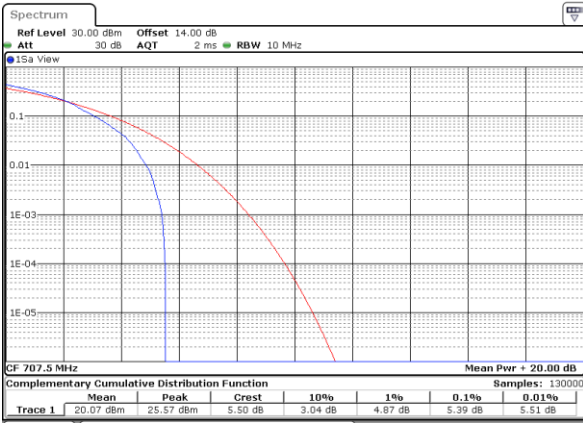
Date: 10 MAY 2023 18:52:09

Lowest Channel / Full RB



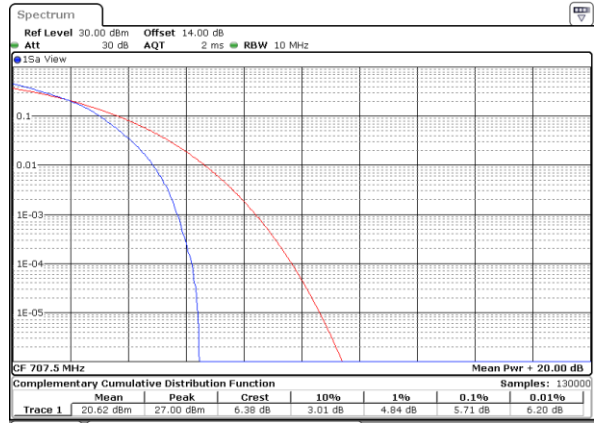
Date: 10 MAY 2023 18:51:44

Middle Channel / 1RB



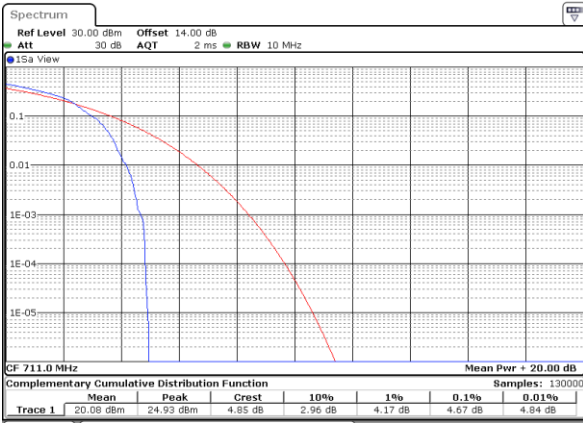
Date: 10 MAY 2023 18:52:33

Middle Channel / Full RB



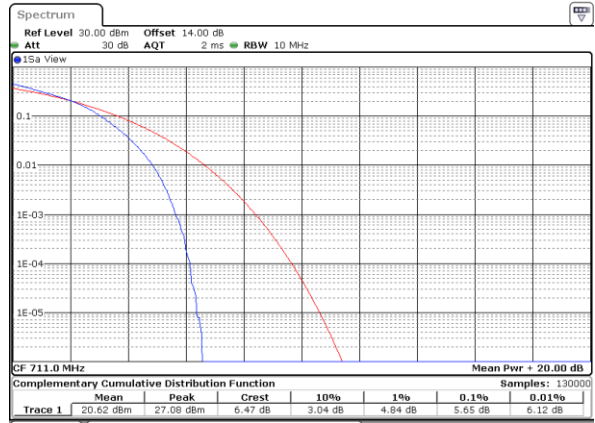
Date: 10 MAY 2023 18:52:58

Highest Channel / 1RB



Date: 10 MAY 2023 18:53:47

Highest Channel / Full RB



Date: 10 MAY 2023 18:53:22



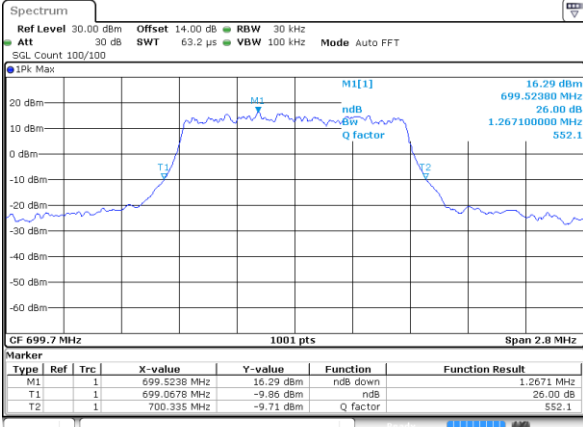
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.27	1.27	2.94	2.96	5.14	5.16	9.91	9.85	-	-	-	-
Middle CH	1.26	1.26	2.94	2.95	5.07	5.16	9.71	10.03	-	-	-	-
Highest CH	1.28	1.32	2.97	2.93	5.00	5.01	9.87	9.95	-	-	-	-



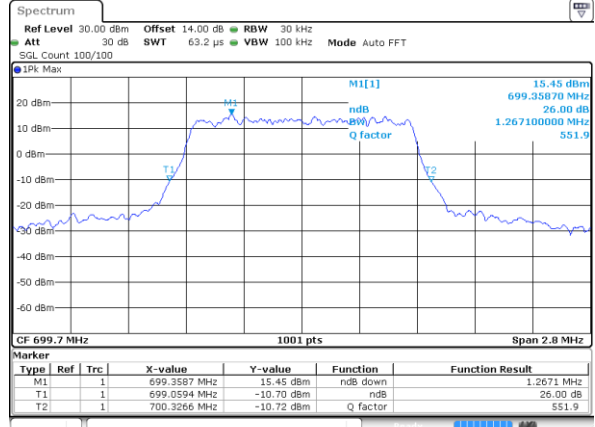
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



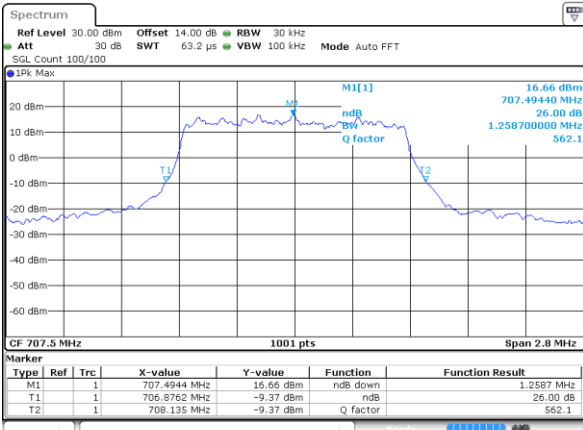
Date: 10 MAY 2023 17:35:10

Lowest Channel / 1.4MHz / 16QAM



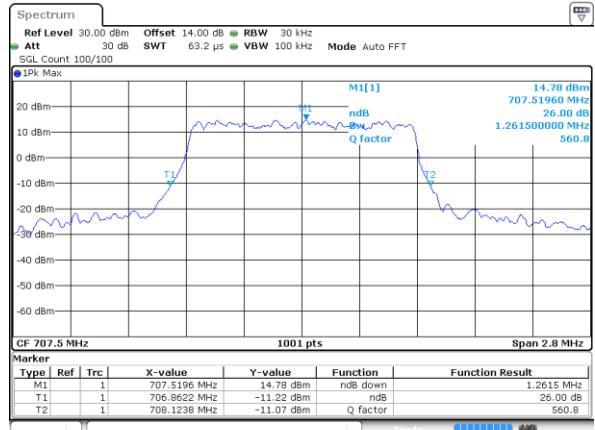
Date: 10 MAY 2023 17:34:46

Middle Channel / 1.4MHz / QPSK



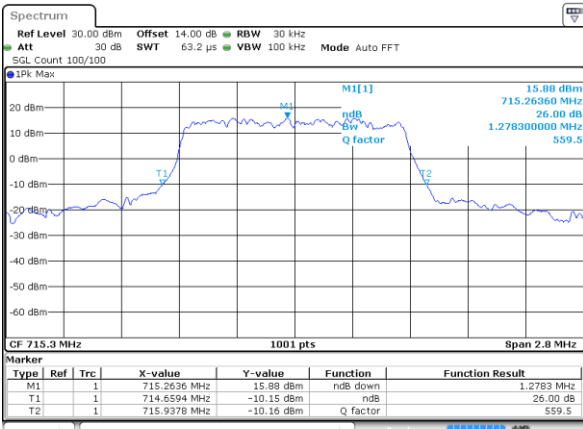
Date: 10 MAY 2023 17:41:11

Middle Channel / 1.4MHz / 16QAM



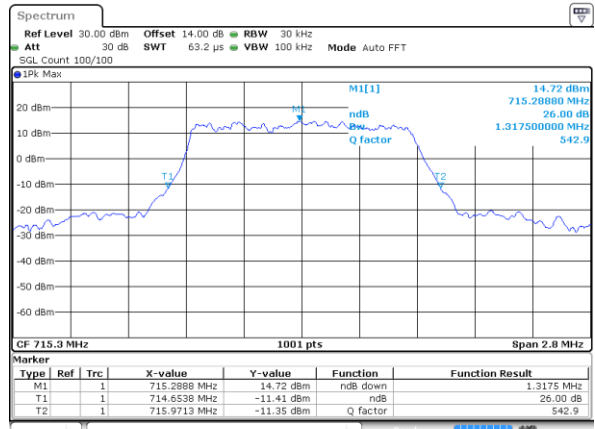
Date: 10 MAY 2023 17:41:34

Highest Channel / 1.4MHz / QPSK



Date: 10 MAY 2023 17:44:45

Highest Channel / 1.4MHz / 16QAM

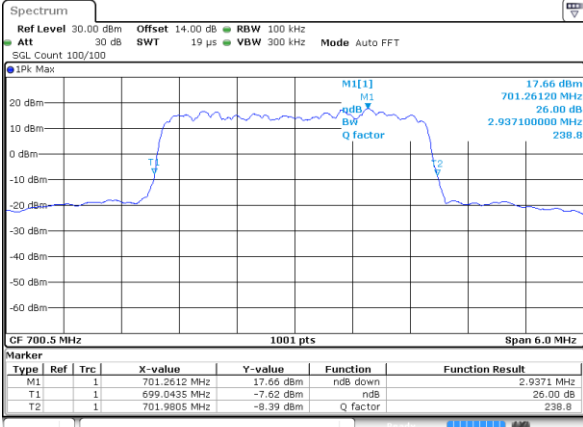


Date: 10 MAY 2023 17:44:22



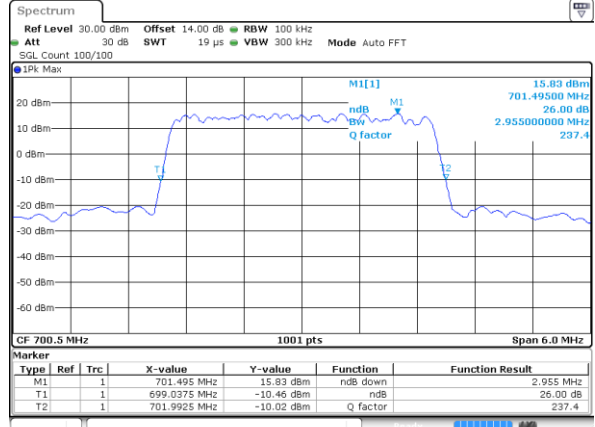
LTE Band 12

Lowest Channel / 3MHz / QPSK



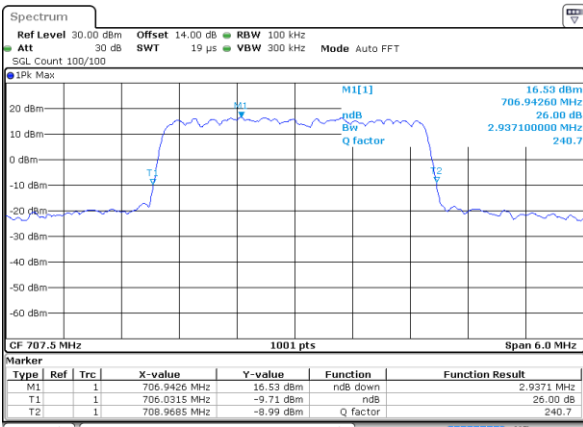
Date: 10 MAY 2023 17:51:22

Lowest Channel / 3MHz / 16QAM



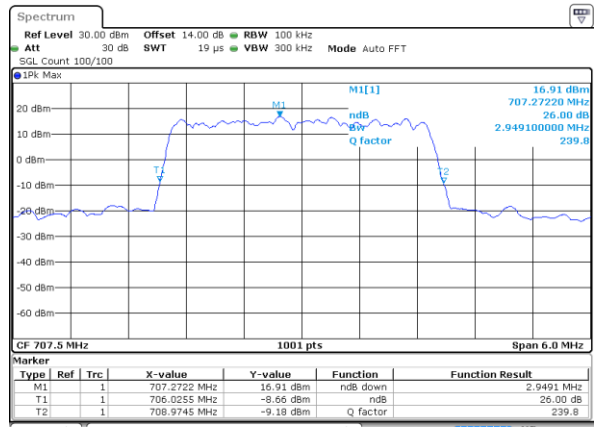
Date: 10 MAY 2023 17:50:58

Middle Channel / 3MHz / QPSK



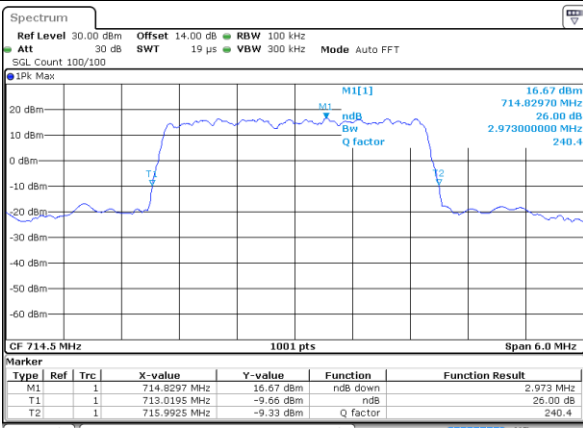
Date: 10 MAY 2023 17:57:24

Middle Channel / 3MHz / 16QAM



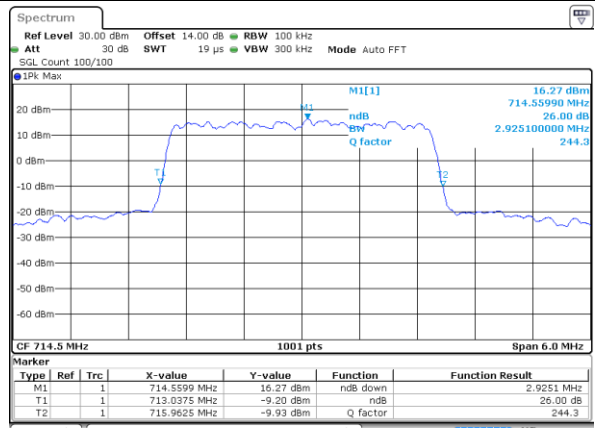
Date: 10 MAY 2023 17:57:47

Highest Channel / 3MHz / QPSK



Date: 10 MAY 2023 18:01:00

Highest Channel / 3MHz / 16QAM

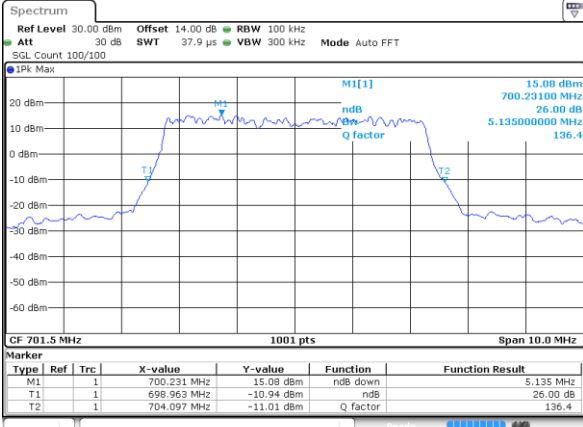


Date: 10 MAY 2023 18:00:36



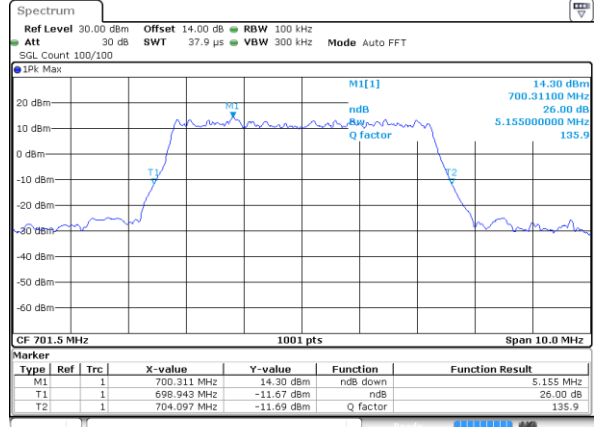
LTE Band 12

Lowest Channel / 5MHz / QPSK



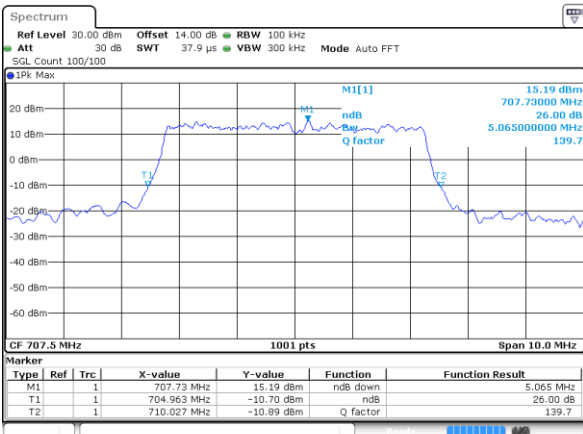
Date: 10 MAY 2023 18:09:37

Lowest Channel / 5MHz / 16QAM



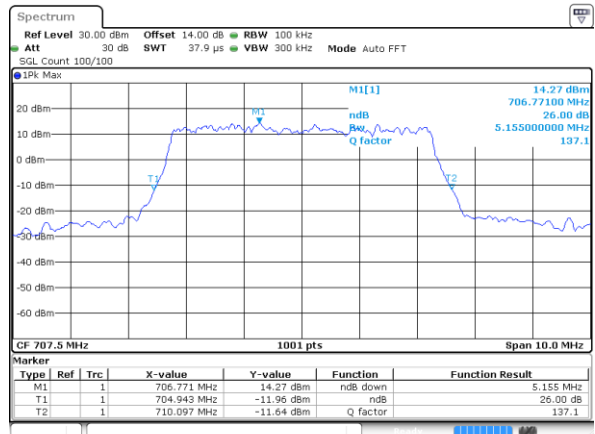
Date: 10 MAY 2023 18:09:13

Middle Channel / 5MHz / QPSK



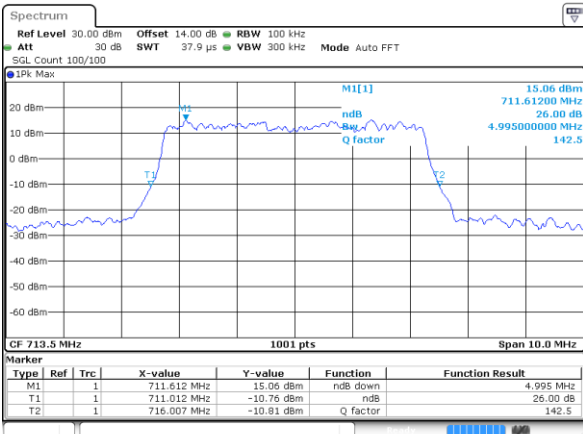
Date: 10 MAY 2023 18:17:40

Middle Channel / 5MHz / 16QAM



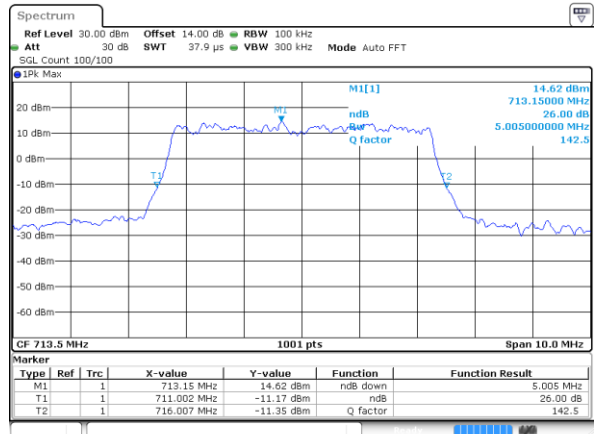
Date: 10 MAY 2023 18:18:03

Highest Channel / 5MHz / QPSK



Date: 10 MAY 2023 18:22:35

Highest Channel / 5MHz / 16QAM

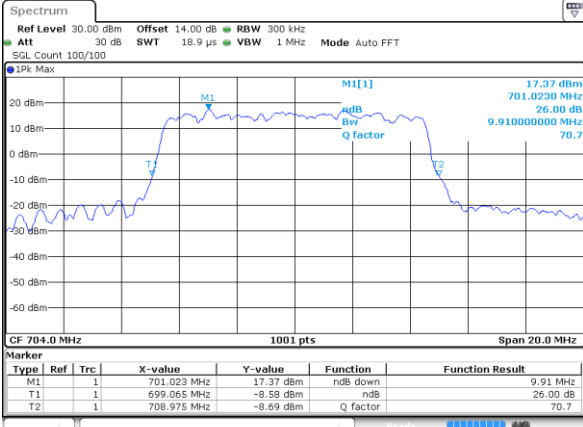


Date: 10 MAY 2023 18:22:11



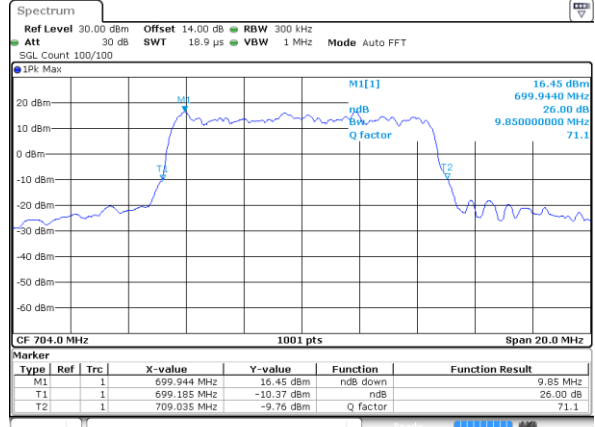
LTE Band 12

Lowest Channel / 10MHz / QPSK



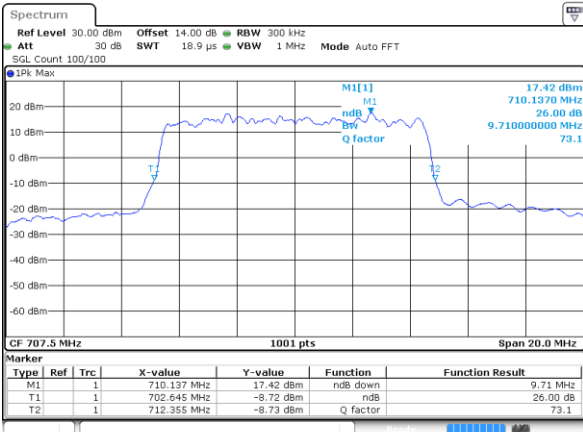
Date: 10 MAY 2023 18:31:11

Lowest Channel / 10MHz / 16QAM



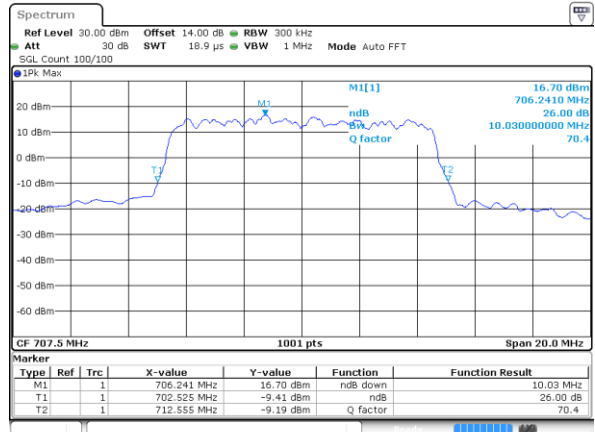
Date: 10 MAY 2023 18:30:48

Middle Channel / 10MHz / QPSK



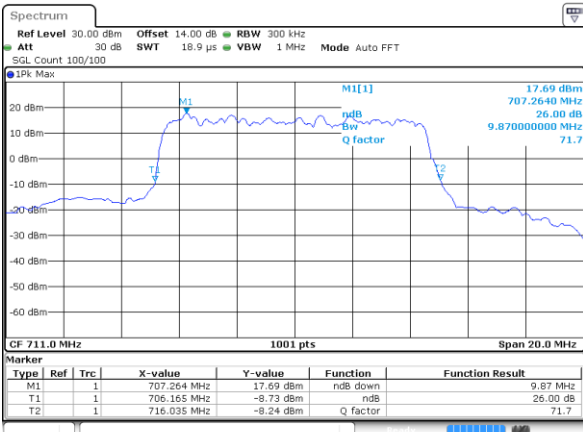
Date: 10 MAY 2023 18:39:13

Middle Channel / 10MHz / 16QAM



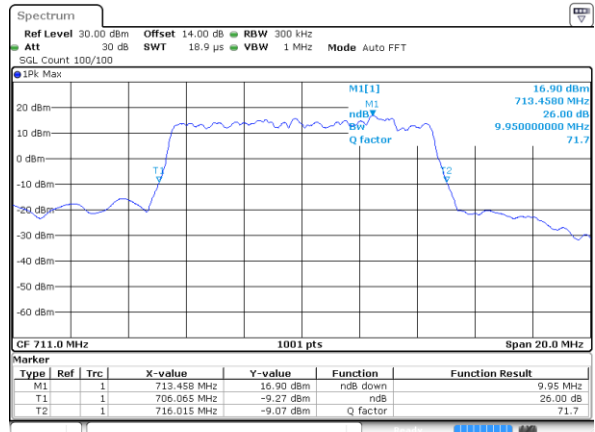
Date: 10 MAY 2023 18:39:36

Highest Channel / 10MHz / QPSK



Date: 10 MAY 2023 18:44:07

Highest Channel / 10MHz / 16QAM



Date: 10 MAY 2023 18:43:44



Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.71	4.52	4.49	9.05	9.03	-	-	-	-
Middle CH	1.09	1.09	2.71	2.70	4.49	4.50	9.05	8.99	-	-	-	-
Highest CH	1.09	1.09	2.70	2.72	4.50	4.51	9.05	9.05	-	-	-	-