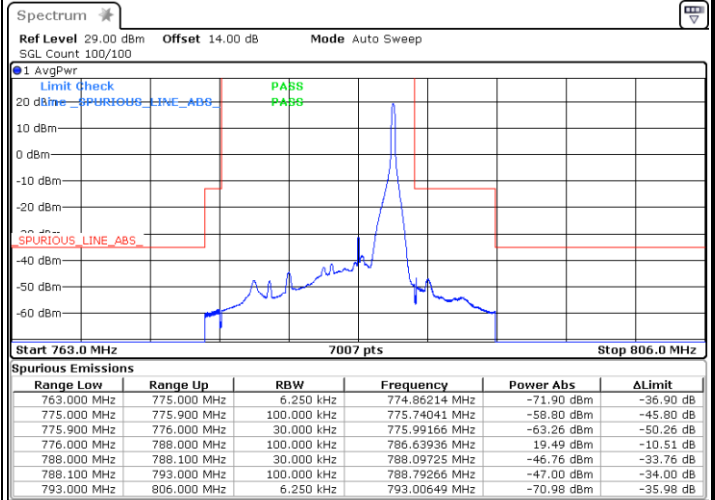
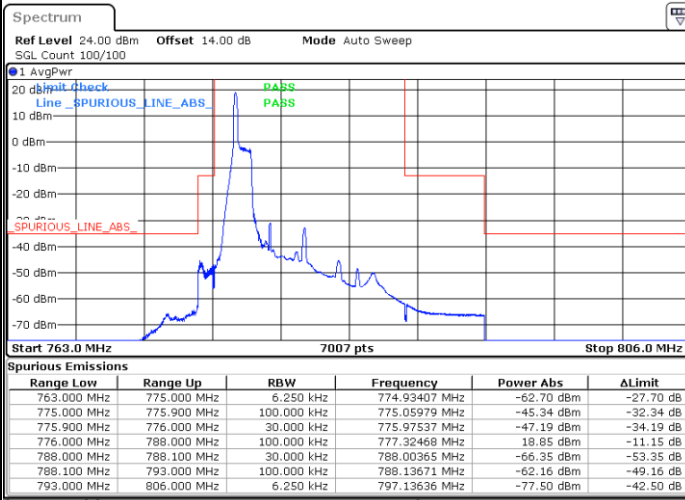




LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

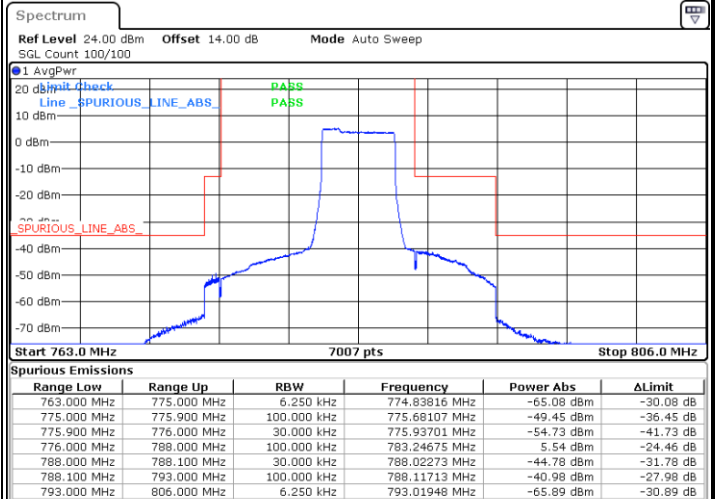
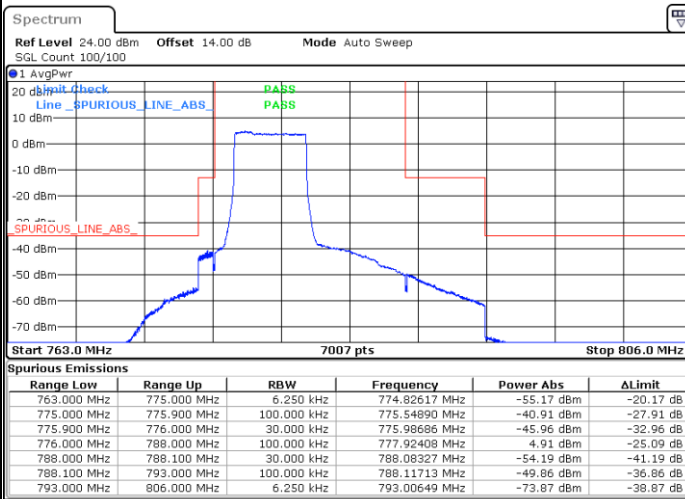


Date: 1.JUL.2021 14:30:49

Date: 9.JUL.2021 20:10:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.JUL.2021 15:25:50

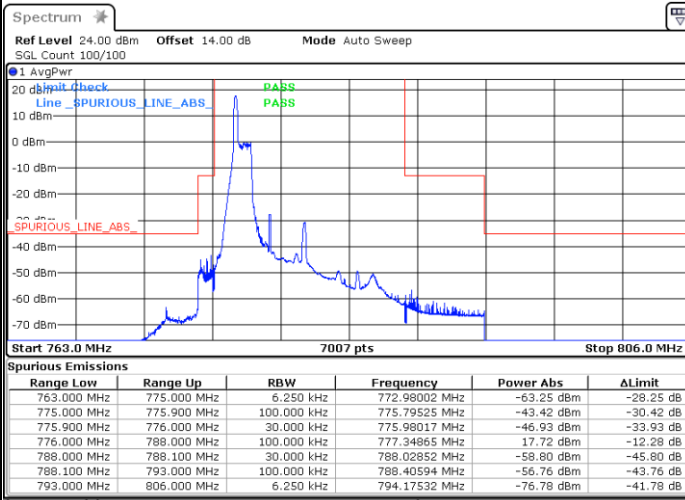
Date: 1.JUL.2021 15:31:28



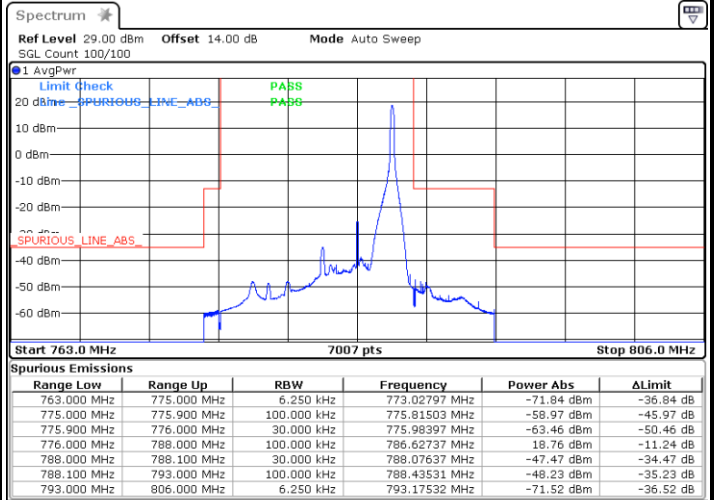
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



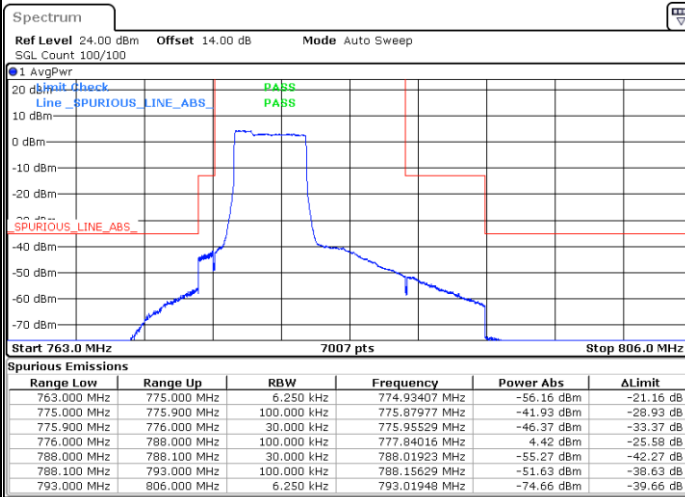
Date: 1.JUL.2021 14:34:01



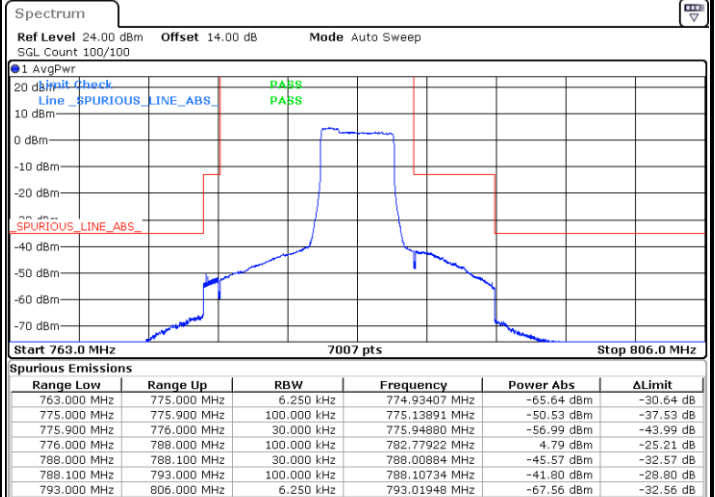
Date: 9.JUL.2021 20:13:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.JUL.2021 15:21:44



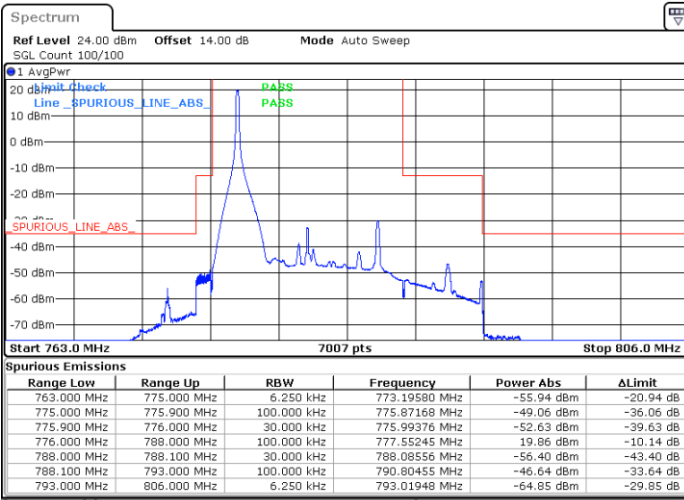
Date: 1.JUL.2021 15:33:21



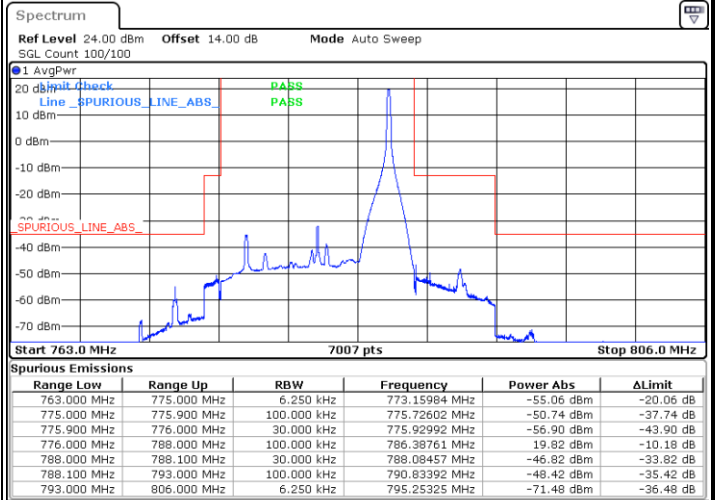
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

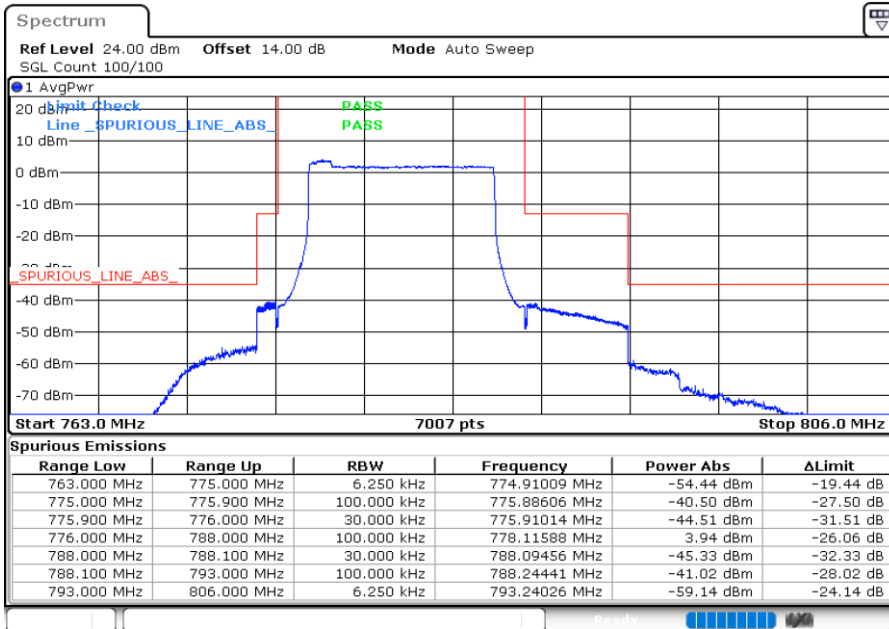


Date: 1.JUL.2021 16:01:18



Date: 1.JUL.2021 15:51:56

Band Edge / Full RB

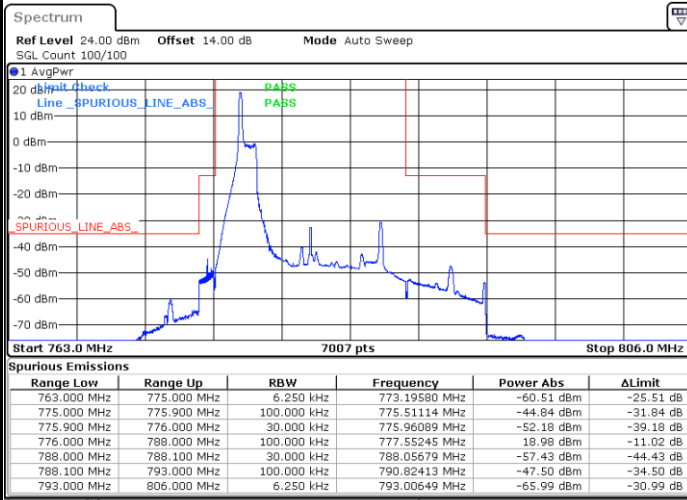


Date: 1.JUL.2021 15:42:39



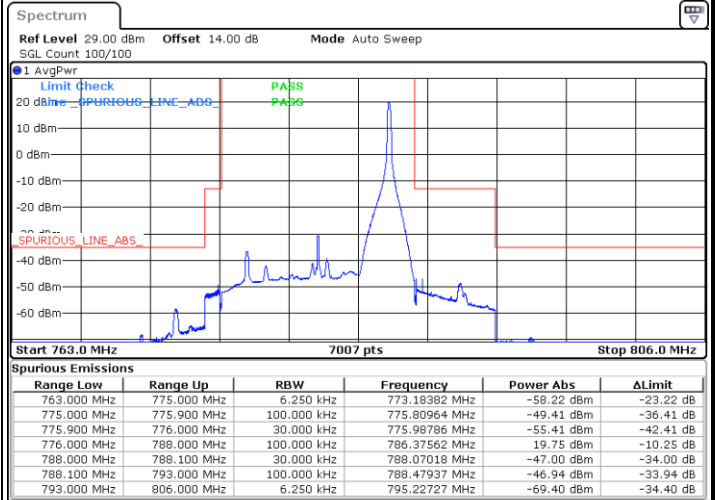
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



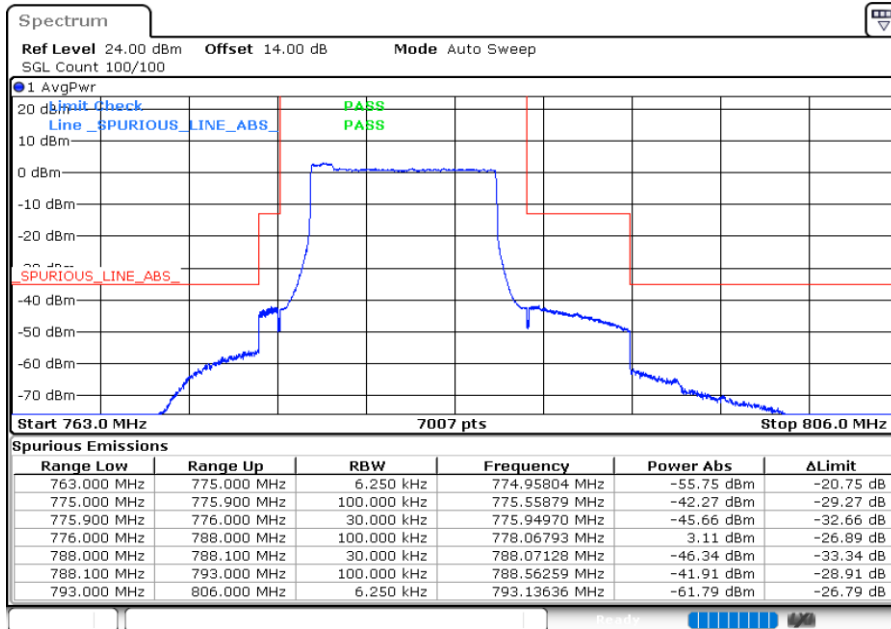
Date: 1.JUL.2021 15:59:26

Highest Band Edge / 1 RB



Date: 9.JUL.2021 20:15:25

Band Edge / Full RB

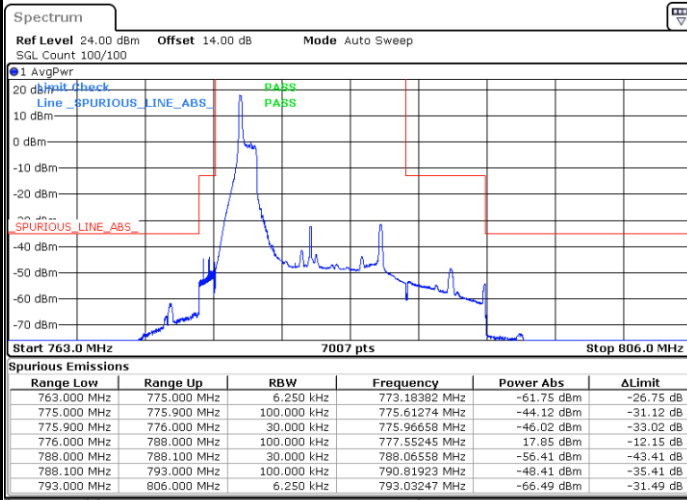


Date: 1.JUL.2021 15:40:47



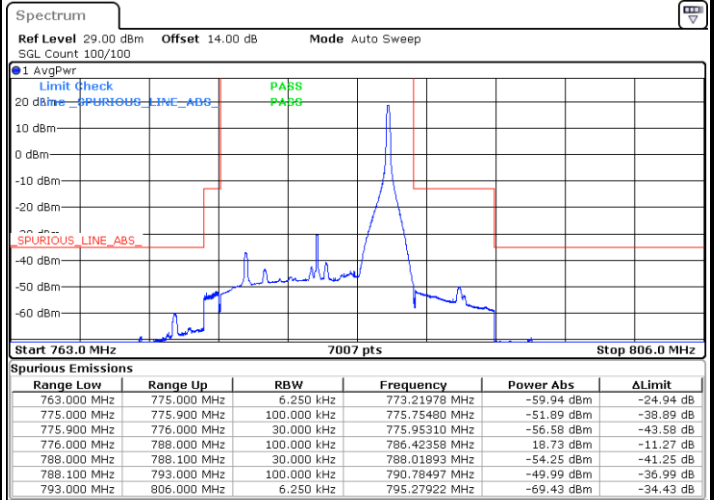
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



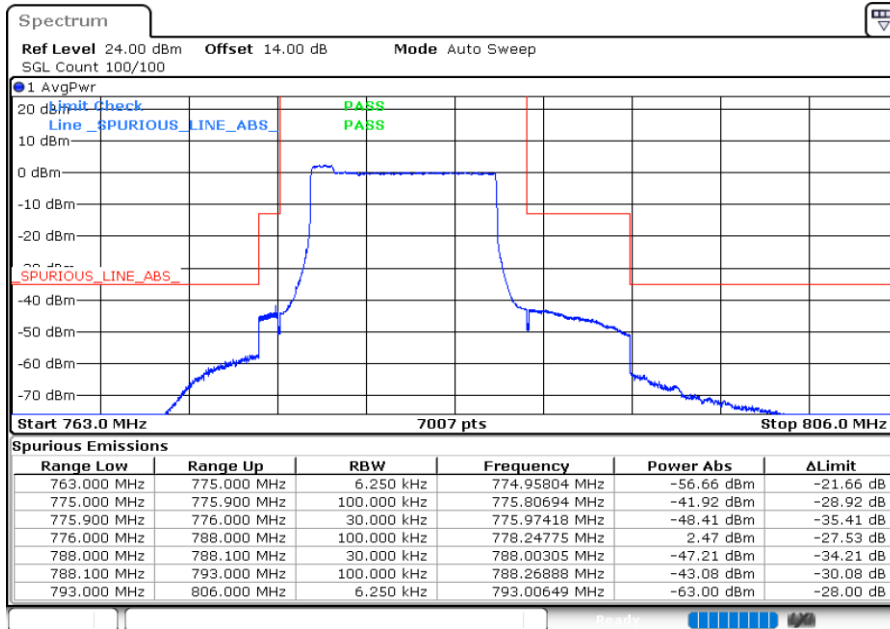
Date: 1.JUL.2021 15:57:33

Highest Band Edge / 1 RB



Date: 9.JUL.2021 20:16:55

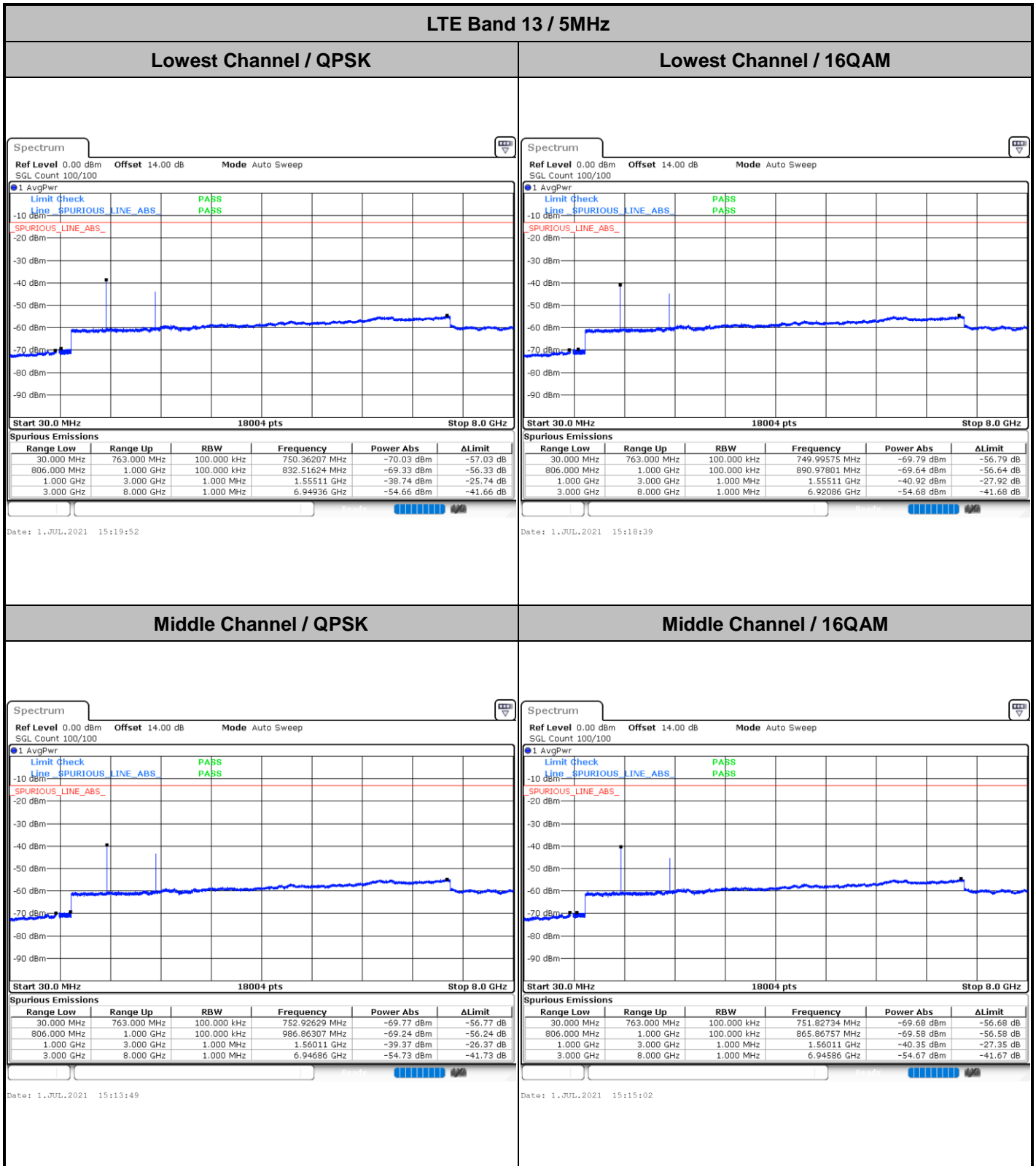
Band Edge / Full RB



Date: 1.JUL.2021 15:38:55



# Conducted Spurious Emission

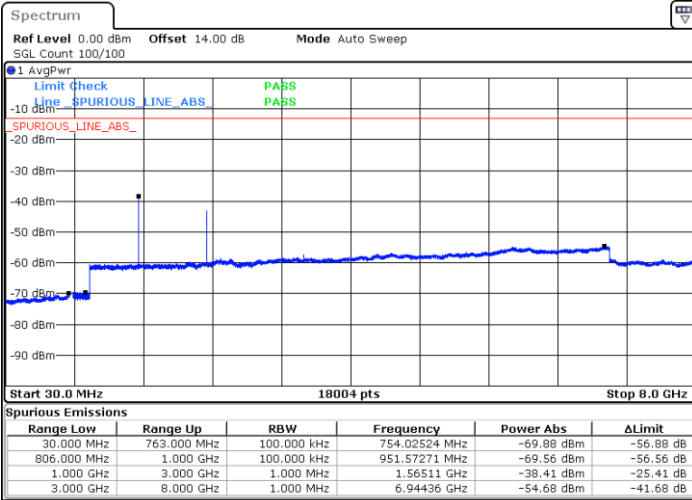




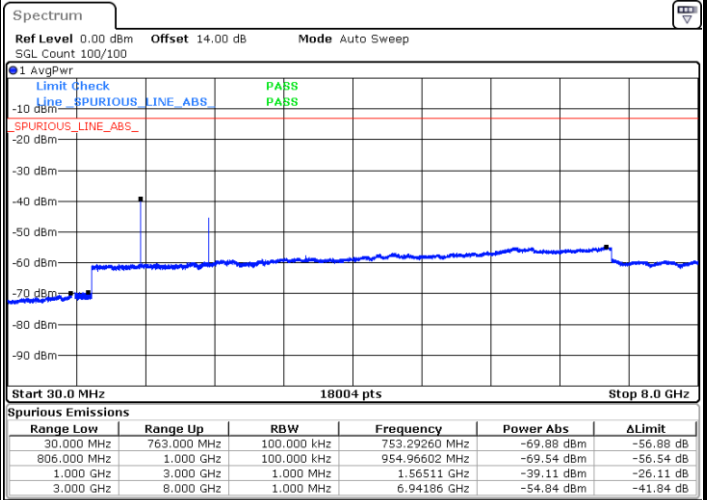
LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.JUL.2021 15:36:58

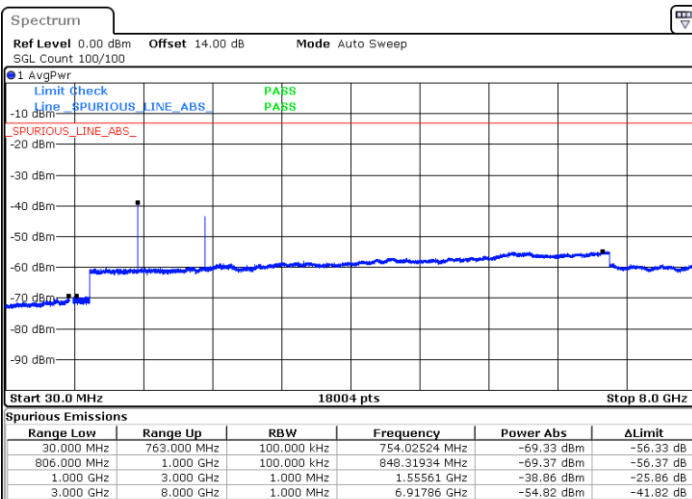


Date: 1.JUL.2021 15:35:45

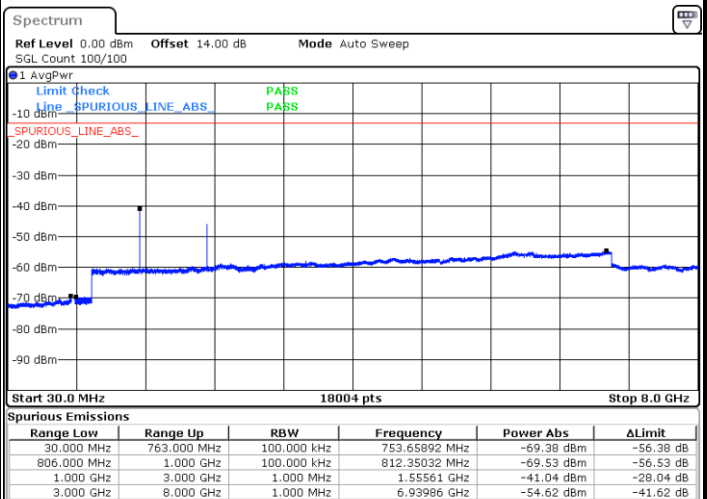
LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.JUL.2021 15:50:04



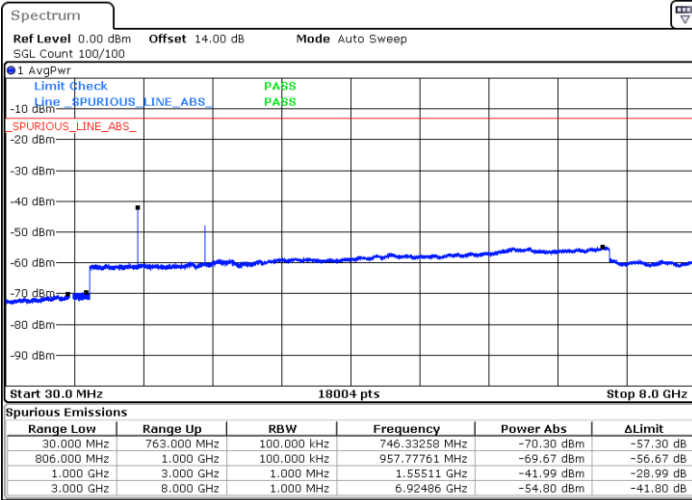
Date: 1.JUL.2021 15:48:51



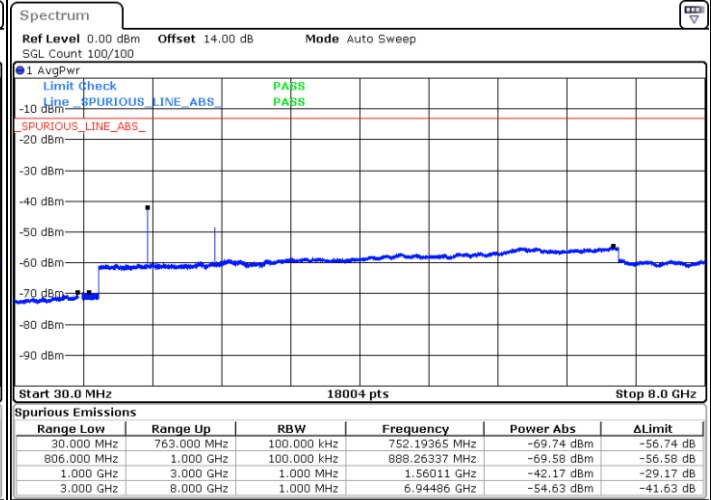
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

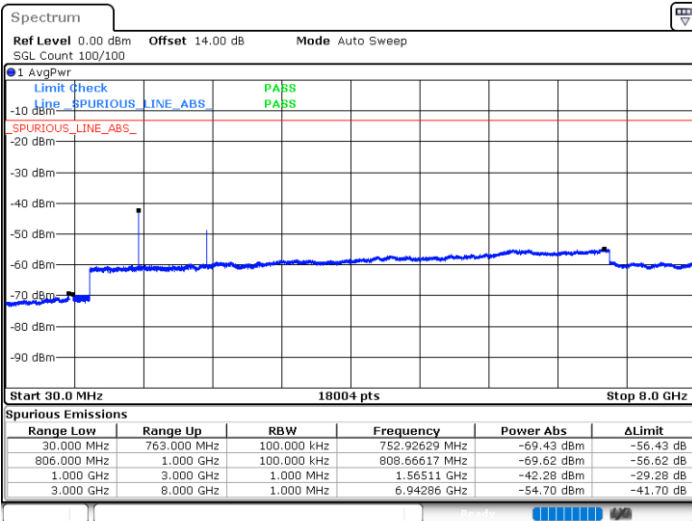


Date: 1.JUL.2021 15:17:27



Date: 1.JUL.2021 15:16:14

Highest Channel / 64QAM



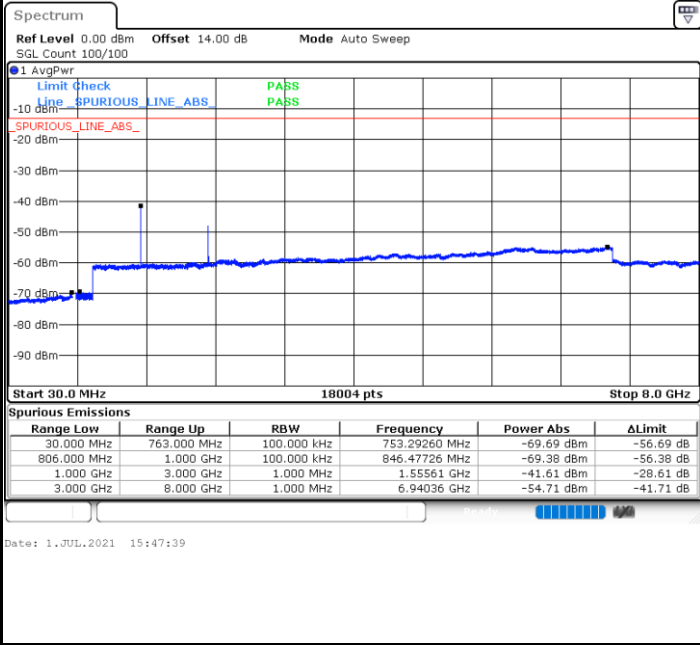
Date: 1.JUL.2021 15:34:33





LTE Band 13 / 10MHz

Middle Channel / 64QAM





### Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 25

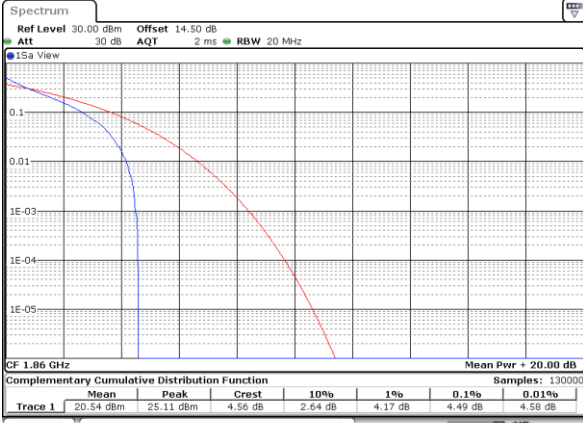
## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.49	5.30	5.51	6.17	<b>PASS</b>
Middle CH	4.99	5.19	6.38	6.12	
Highest CH	4.61	5.01	5.42	5.88	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.29	6.46	-	-	<b>PASS</b>
Middle CH	6.49	6.46	-	-	
Highest CH	6.09	6.35	-	-	



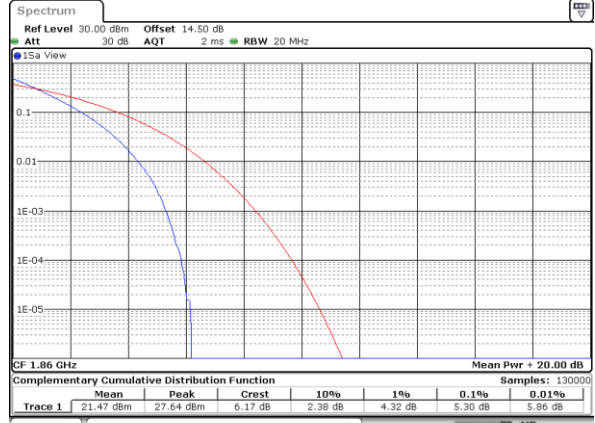
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



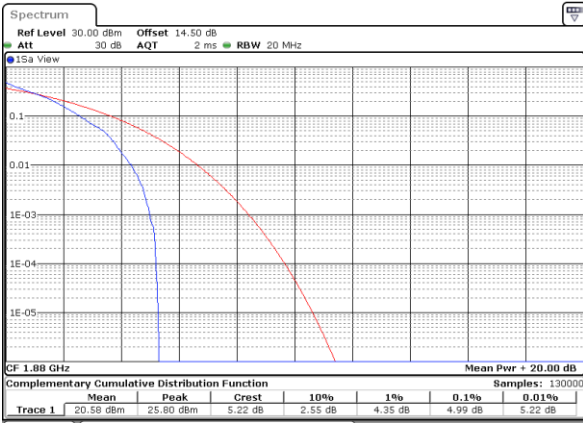
Date: 30\_JUN,2021 20:57:48

Lowest Channel / Full RB



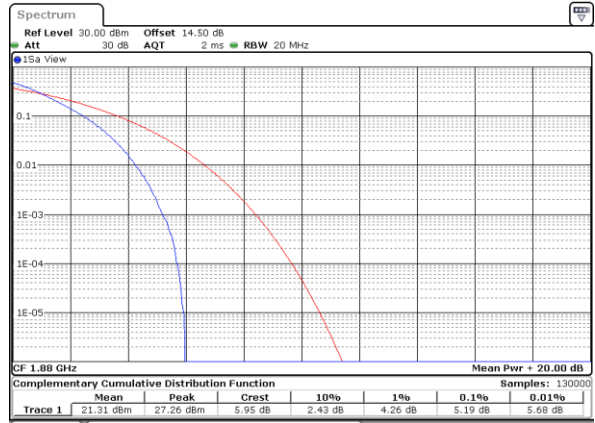
Date: 30\_JUN,2021 20:58:16

Middle Channel / 1RB



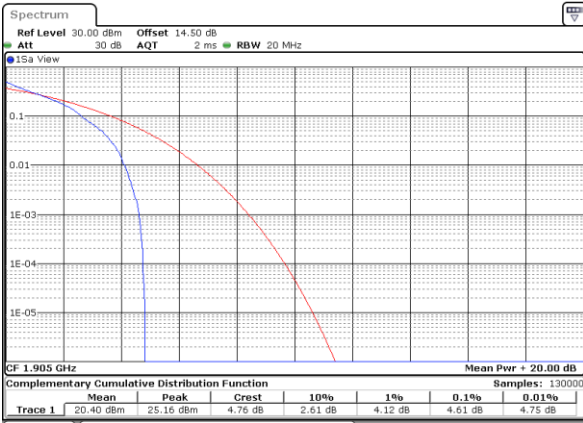
Date: 30\_JUN,2021 20:59:38

Middle Channel / Full RB



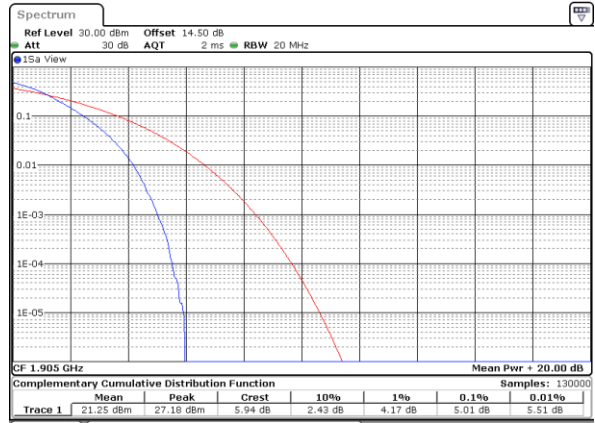
Date: 30\_JUN,2021 21:00:06

Highest Channel / 1RB



Date: 30\_JUN,2021 21:01:28

Highest Channel / Full RB

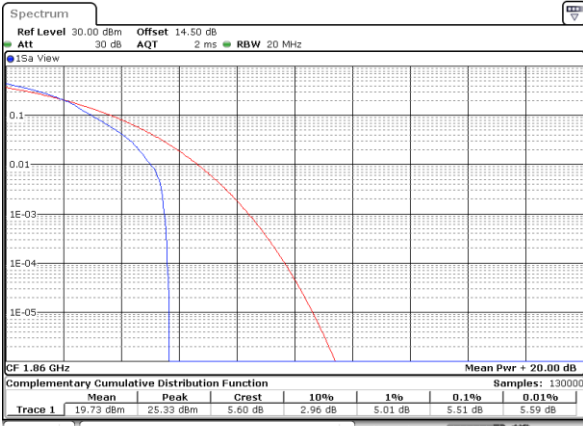


Date: 30\_JUN,2021 21:01:56



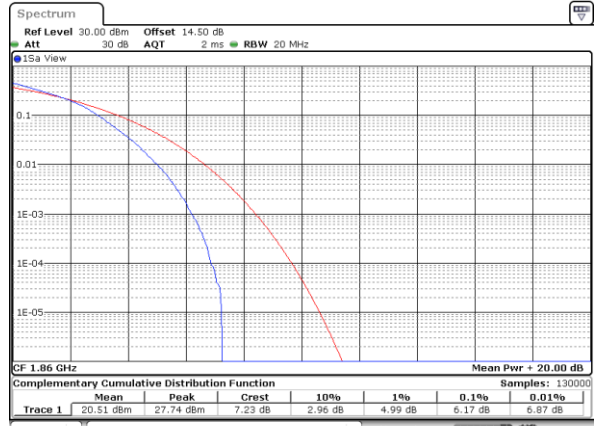
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



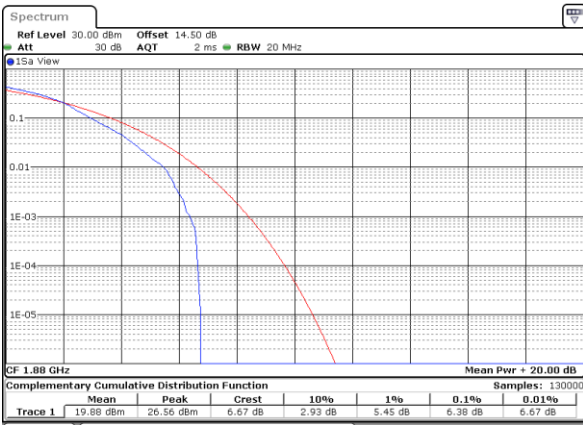
Date: 30 JUN 2021 20:56:54

Lowest Channel / Full RB



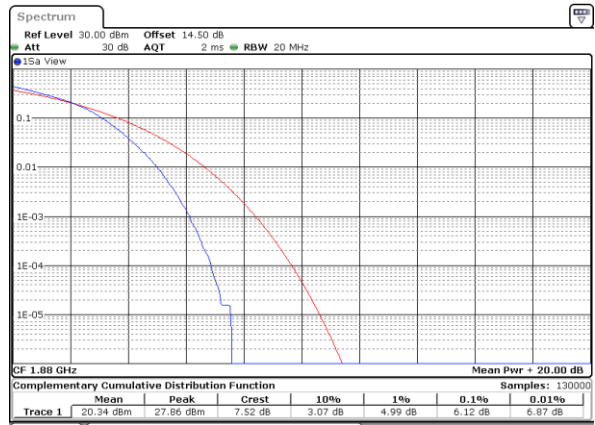
Date: 30 JUN 2021 20:57:121

Middle Channel / 1RB



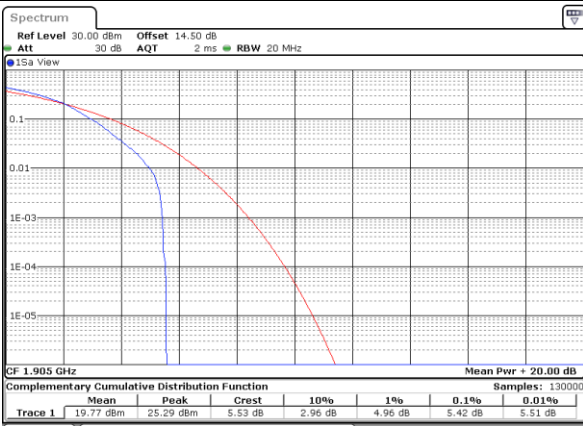
Date: 30 JUN 2021 20:58:43

Middle Channel / Full RB



Date: 30 JUN 2021 20:59:11

Highest Channel / 1RB



Date: 30 JUN 2021 21:00:33

Highest Channel / Full RB

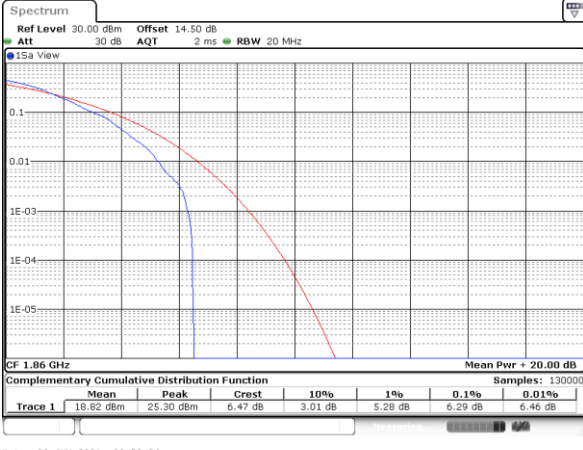


Date: 30 JUN 2021 21:01:01



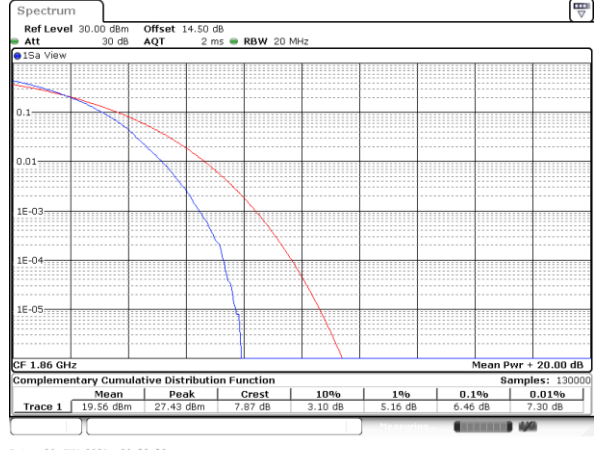
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



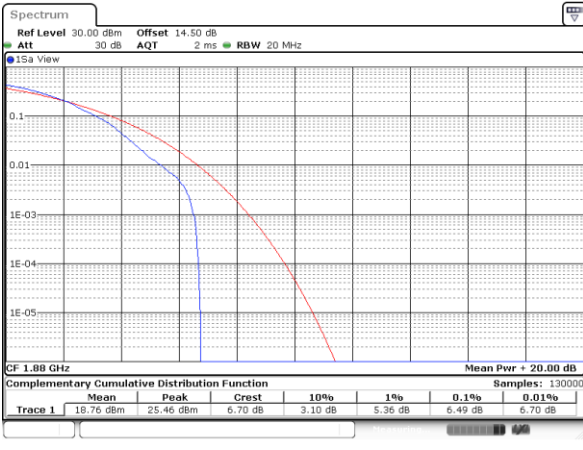
Date: 30 JUN 2021 20:53:24

Lowest Channel / Full RB



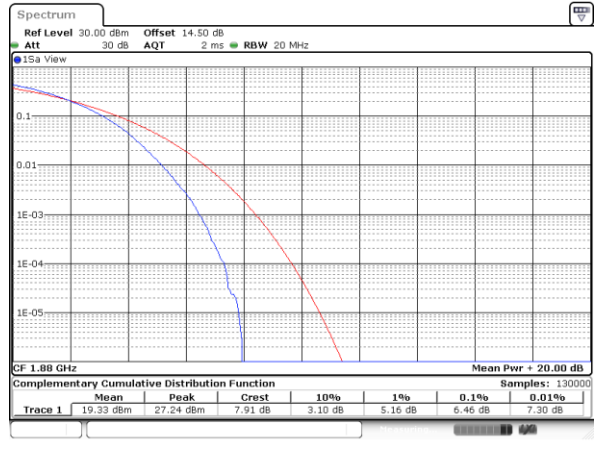
Date: 30 JUN 2021 20:53:52

Middle Channel / 1RB



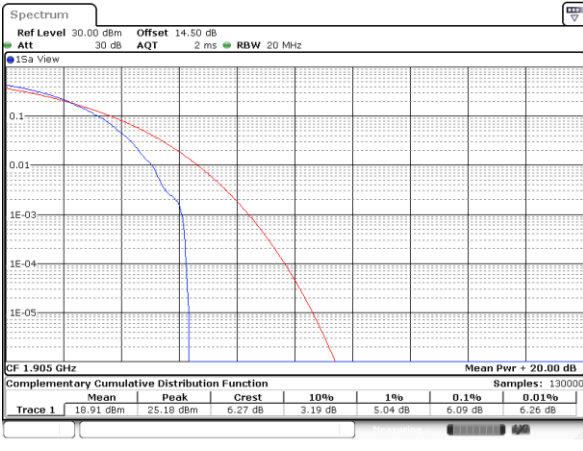
Date: 30 JUN 2021 20:55:04

Middle Channel / Full RB



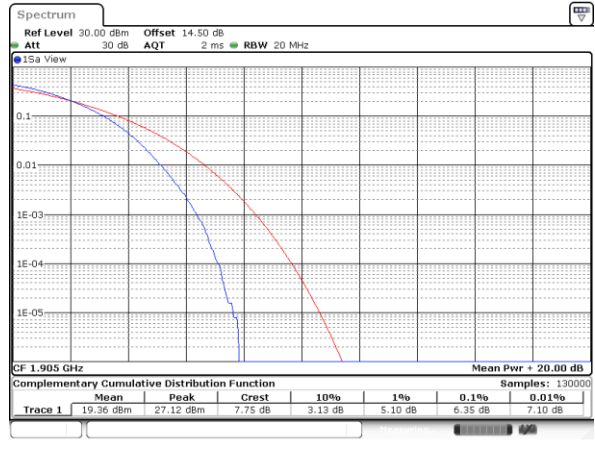
Date: 30 JUN 2021 20:55:31

Highest Channel / 1RB



Date: 30 JUN 2021 20:55:58

Highest Channel / Full RB



Date: 30 JUN 2021 20:56:25



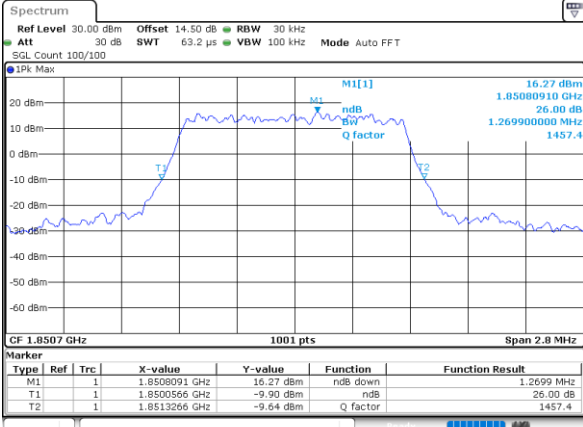
26dB Bandwidth

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	1.27	1.27	2.97	2.94	5.15	5.00	9.73	9.65	14.72	14.84	19.26	18.82
Middle CH	1.28	1.28	2.94	2.93	5.06	4.97	9.85	10.11	14.57	14.45	19.10	19.14
Highest CH	1.26	1.28	2.94	2.96	5.06	5.02	9.81	9.91	14.57	14.63	18.90	18.58
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.29	-	2.94	-	4.83	-	10.05	-	14.60	-	18.98	-
Middle CH	1.31	-	2.93	-	5.10	-	9.93	-	14.39	-	19.30	-
Highest CH	1.30	-	2.94	-	5.15	-	9.91	-	14.81	-	19.02	-



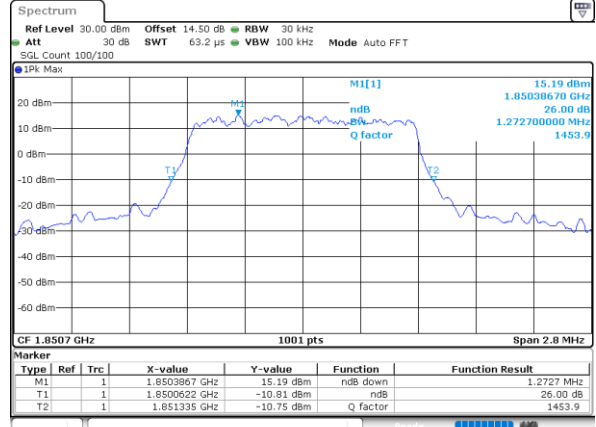
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



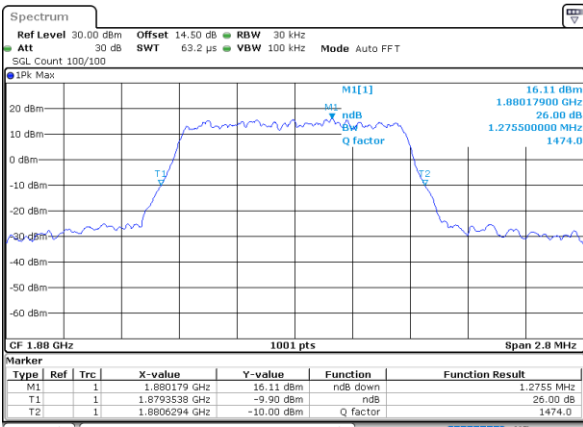
Date: 30 JUN 2021 20:23:10

Lowest Channel / 1.4MHz / 16QAM



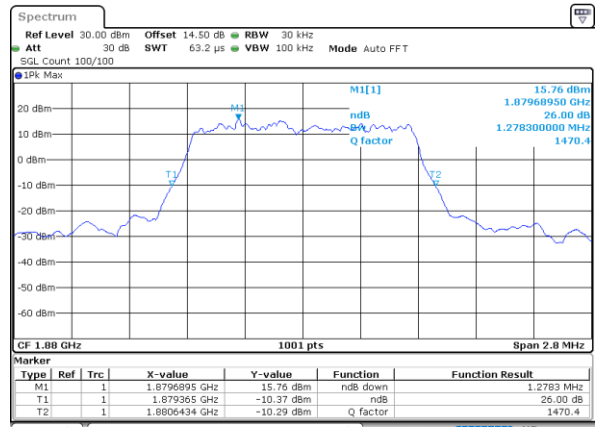
Date: 30 JUN 2021 20:23:34

Middle Channel / 1.4MHz / QPSK



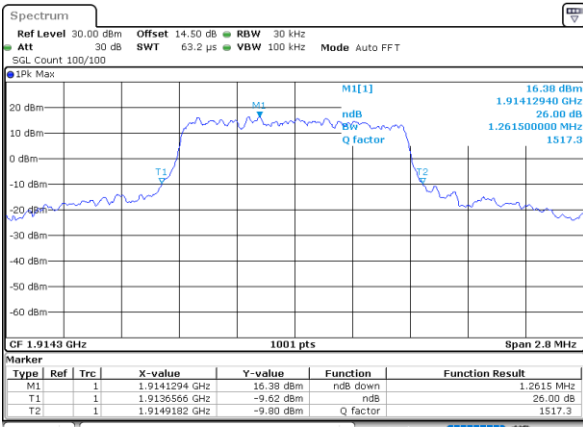
Date: 30 JUN 2021 20:31:18

Middle Channel / 1.4MHz / 16QAM



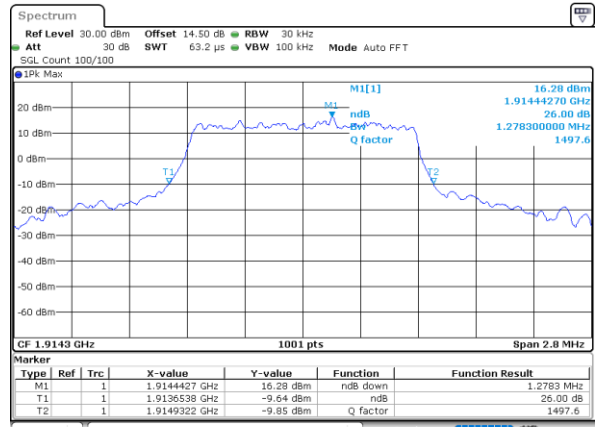
Date: 30 JUN 2021 20:31:41

Highest Channel / 1.4MHz / QPSK



Date: 30 JUN 2021 20:35:36

Highest Channel / 1.4MHz / 16QAM



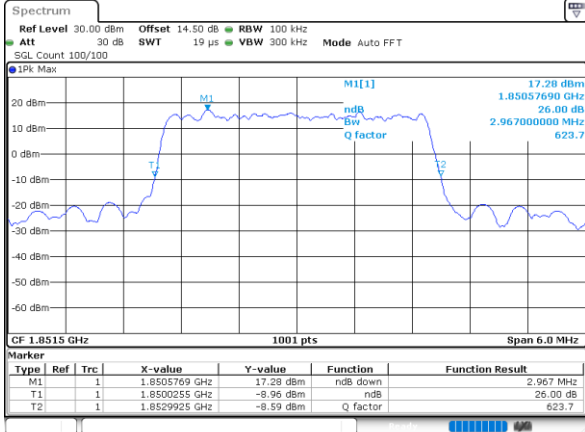
Date: 30 JUN 2021 20:35:13





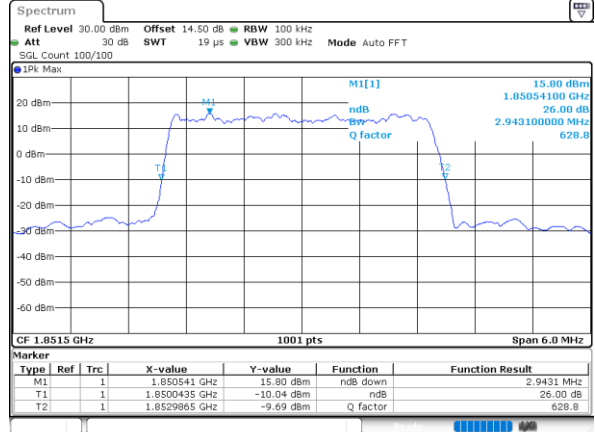
LTE Band 25

Lowest Channel / 3MHz / QPSK



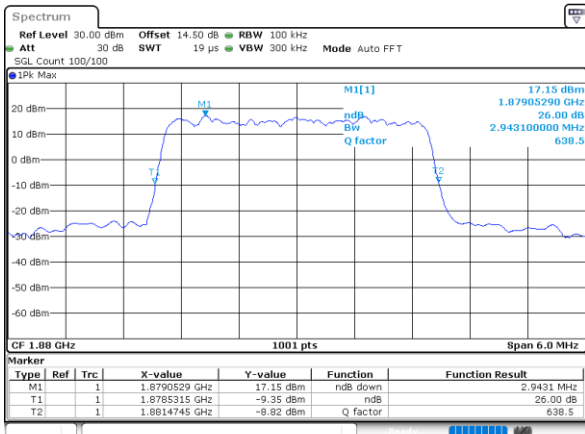
Date: 30 JUN 2021 18:06:12

Lowest Channel / 3MHz / 16QAM



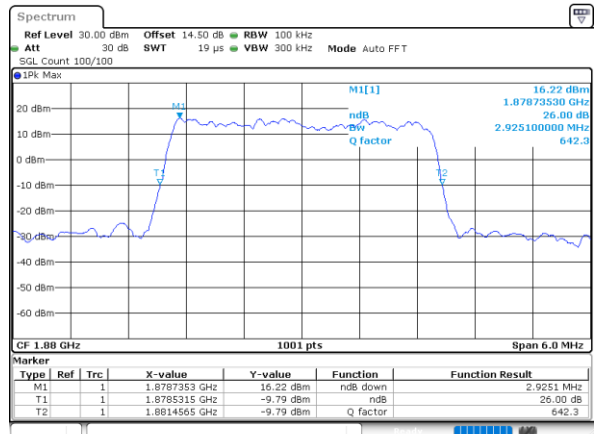
Date: 30 JUN 2021 18:06:35

Middle Channel / 3MHz / QPSK



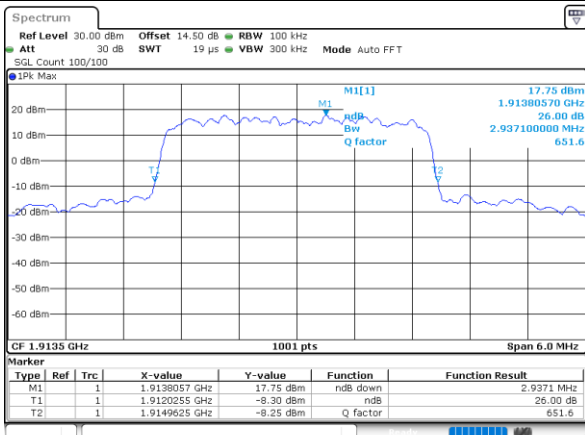
Date: 30 JUN 2021 18:13:07

Middle Channel / 3MHz / 16QAM



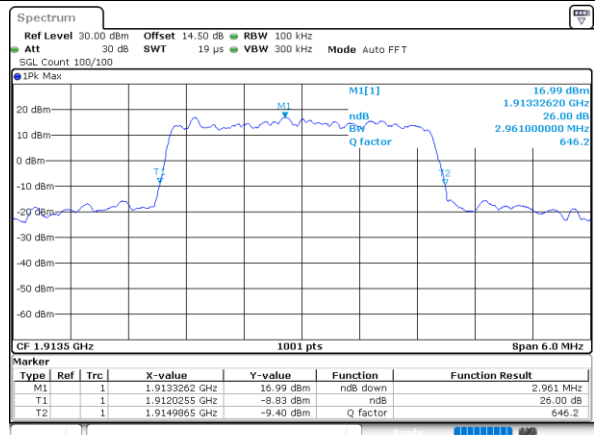
Date: 30 JUN 2021 18:13:31

Highest Channel / 3MHz / QPSK



Date: 30 JUN 2021 18:17:25

Highest Channel / 3MHz / 16QAM

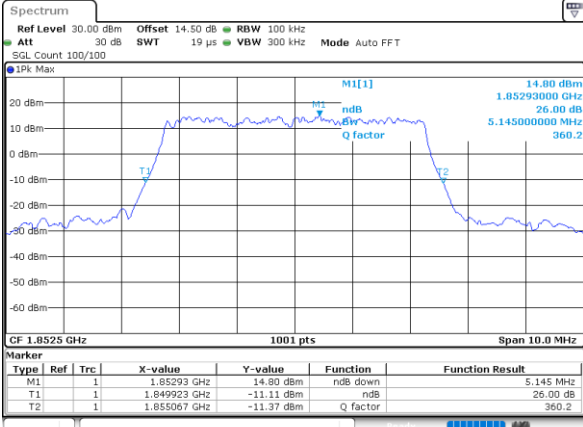


Date: 30 JUN 2021 18:17:02



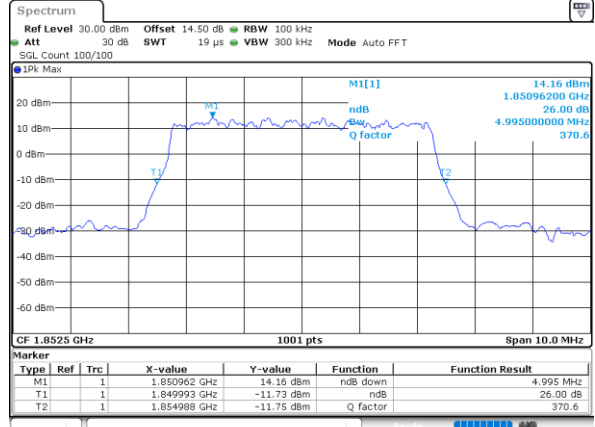
LTE Band 25

Lowest Channel / 5MHz / QPSK



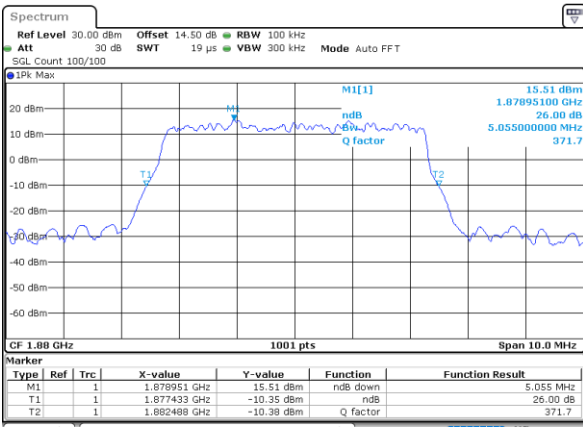
Date: 30 JUN 2021 18:25:04

Lowest Channel / 5MHz / 16QAM



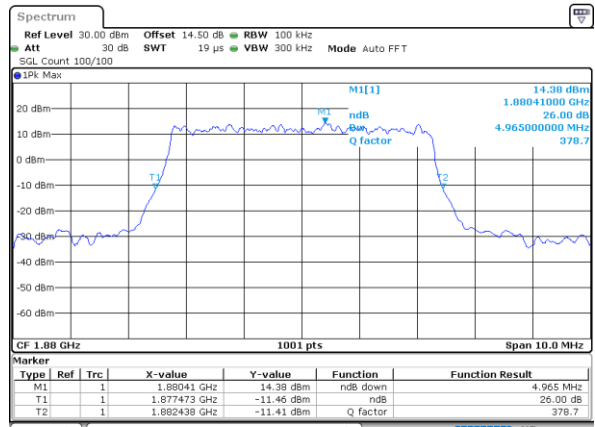
Date: 30 JUN 2021 18:25:27

Middle Channel / 5MHz / QPSK



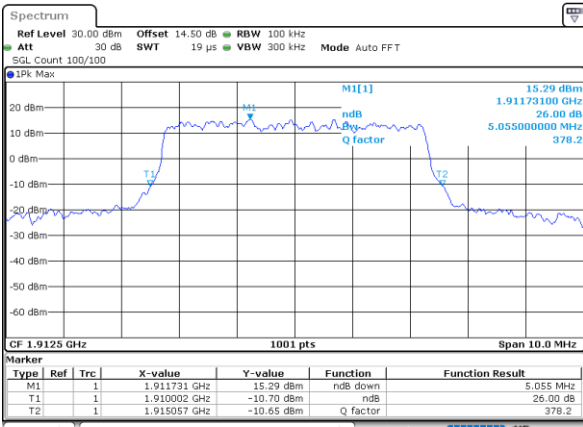
Date: 30 JUN 2021 18:33:12

Middle Channel / 5MHz / 16QAM



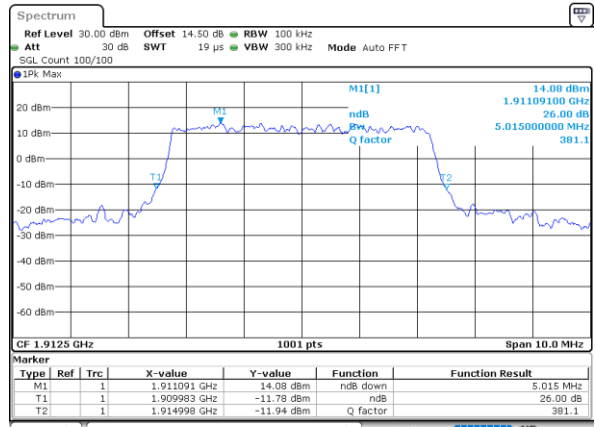
Date: 30 JUN 2021 18:33:35

Highest Channel / 5MHz / QPSK



Date: 30 JUN 2021 18:37:30

Highest Channel / 5MHz / 16QAM

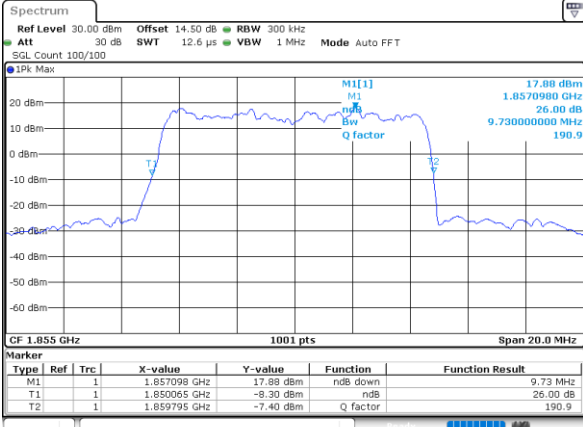


Date: 30 JUN 2021 18:37:06



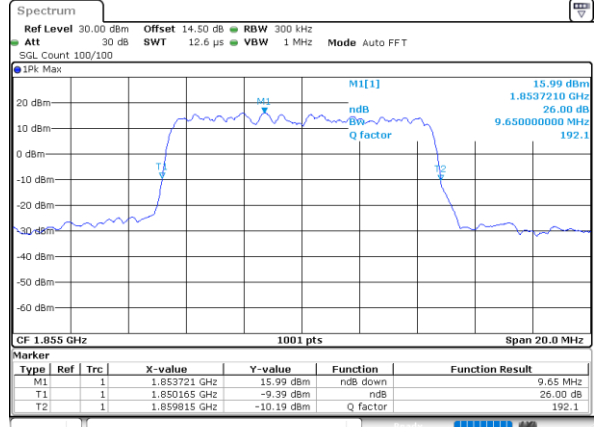
LTE Band 25

Lowest Channel / 10MHz / QPSK



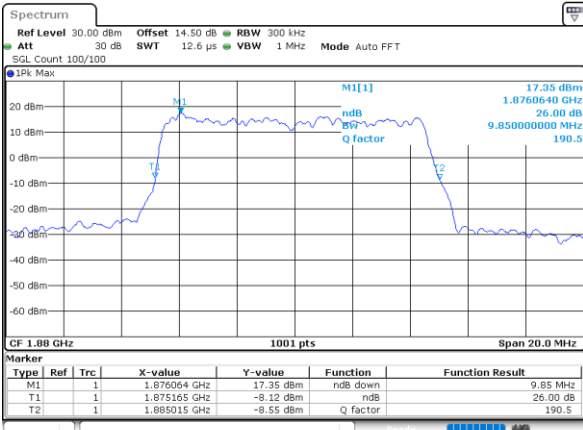
Date: 30 JUN 2021 18:54:37

Lowest Channel / 10MHz / 16QAM



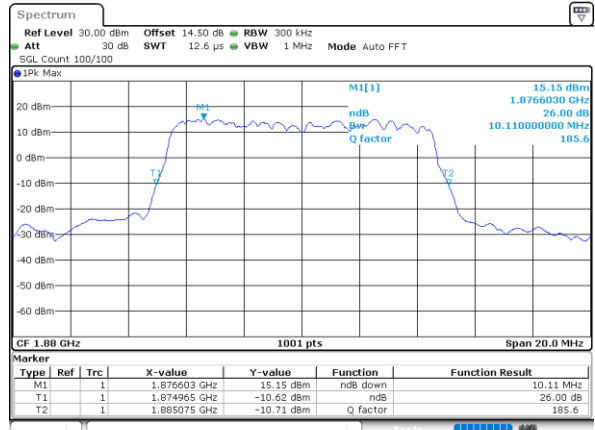
Date: 30 JUN 2021 18:55:00

Middle Channel / 10MHz / QPSK



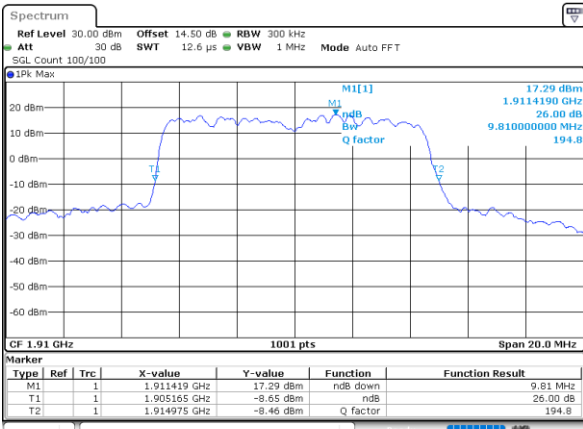
Date: 30 JUN 2021 19:02:45

Middle Channel / 10MHz / 16QAM



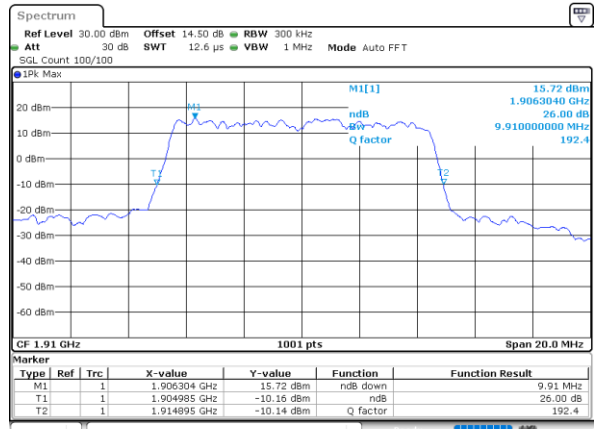
Date: 30 JUN 2021 19:03:09

Highest Channel / 10MHz / QPSK



Date: 30 JUN 2021 19:07:03

Highest Channel / 10MHz / 16QAM

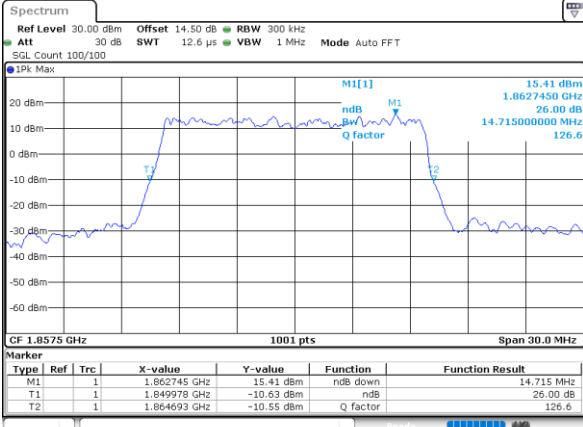


Date: 30 JUN 2021 19:06:40

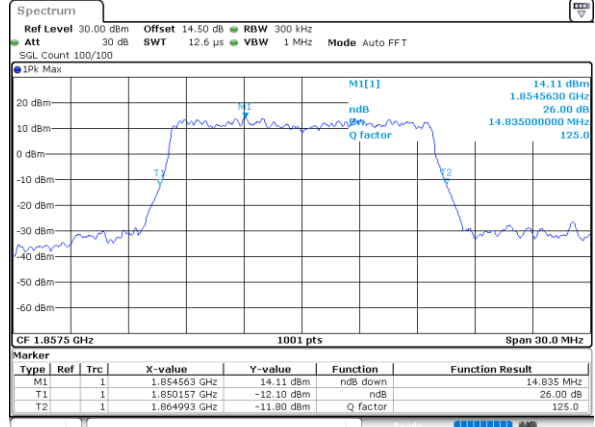


LTE Band 25

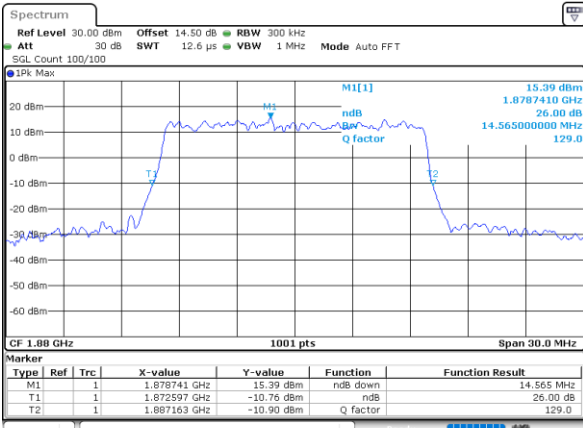
Lowest Channel / 15MHz / QPSK



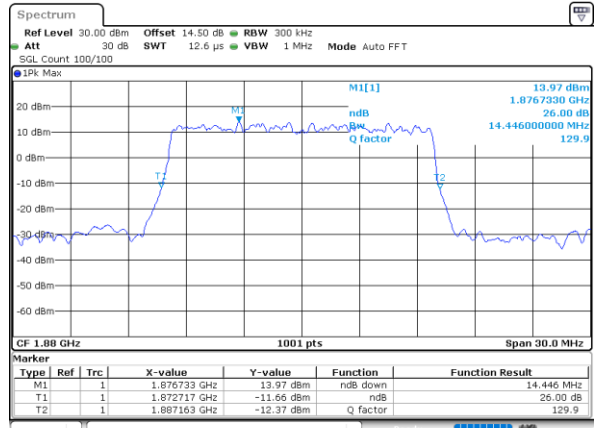
Lowest Channel / 15MHz / 16QAM



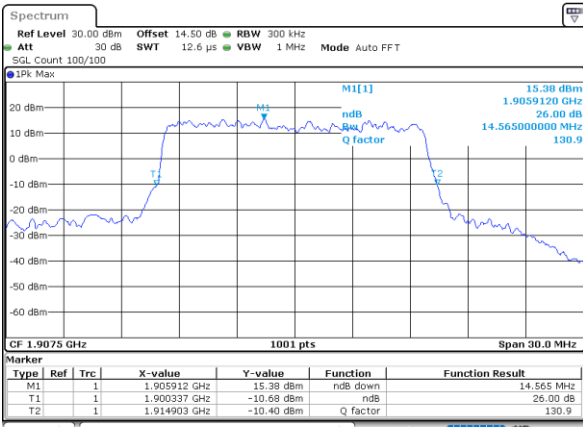
Middle Channel / 15MHz / QPSK



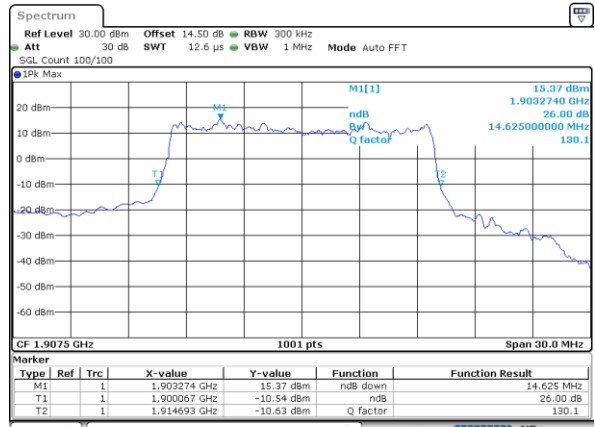
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



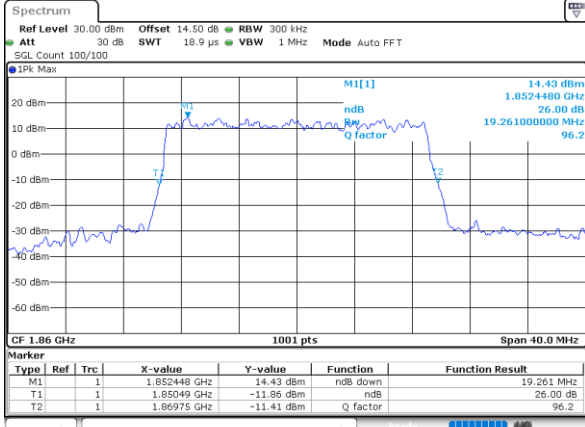
Highest Channel / 15MHz / 16QAM





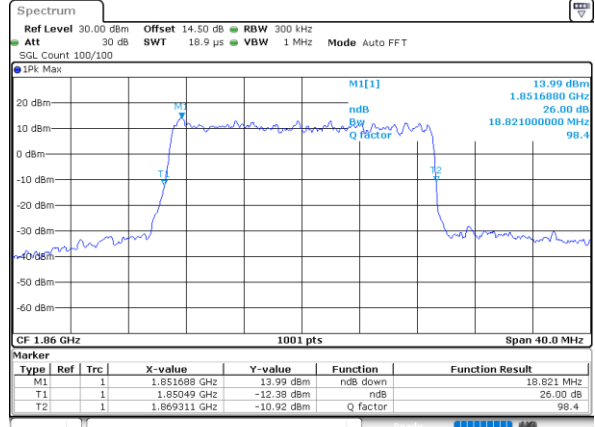
LTE Band 25

Lowest Channel / 20MHz / QPSK



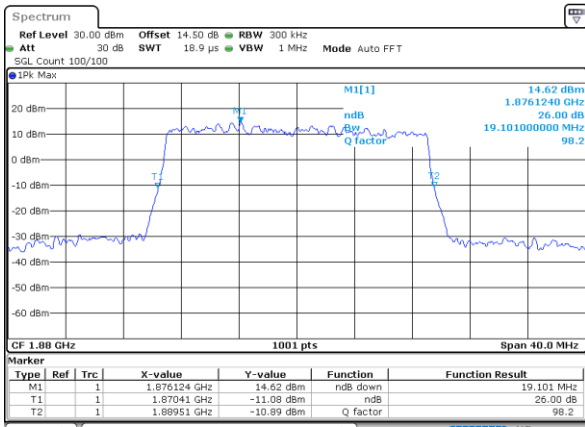
Date: 30 JUN 2021 19:53:41

Lowest Channel / 20MHz / 16QAM



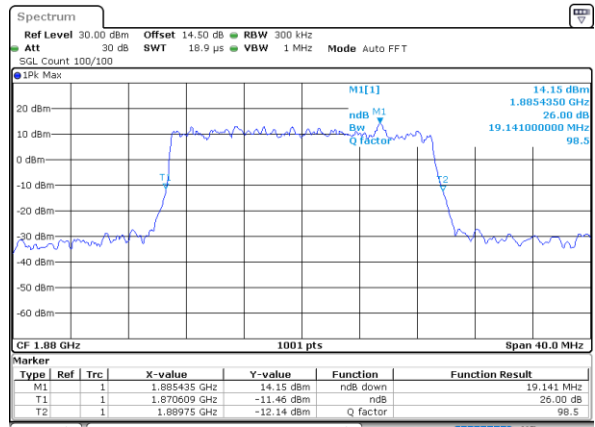
Date: 30 JUN 2021 19:54:04

Middle Channel / 20MHz / QPSK



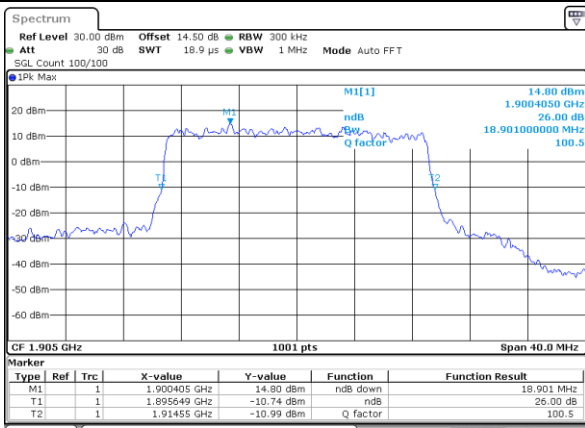
Date: 30 JUN 2021 20:01:49

Middle Channel / 20MHz / 16QAM



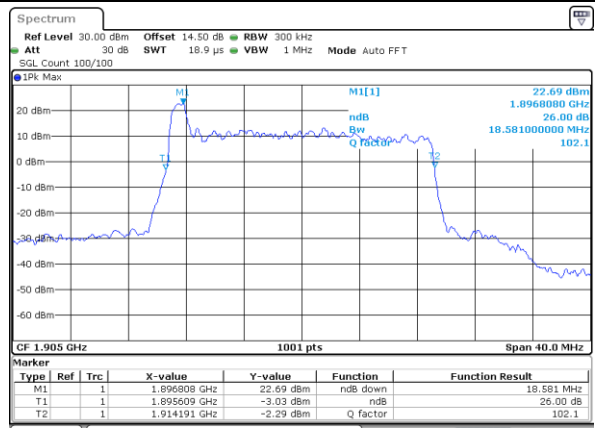
Date: 30 JUN 2021 20:02:13

Highest Channel / 20MHz / QPSK



Date: 30 JUN 2021 20:06:07

Highest Channel / 20MHz / 16QAM

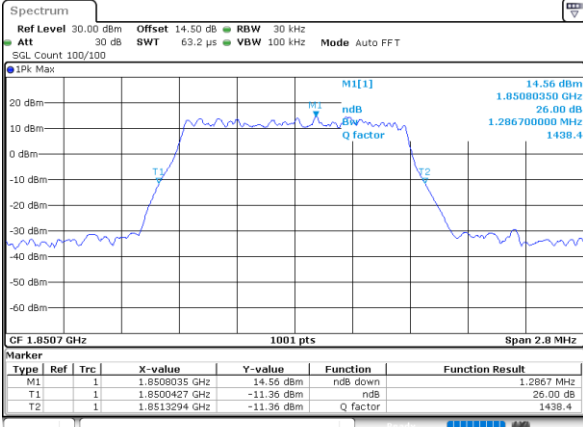


Date: 30 JUN 2021 20:05:44



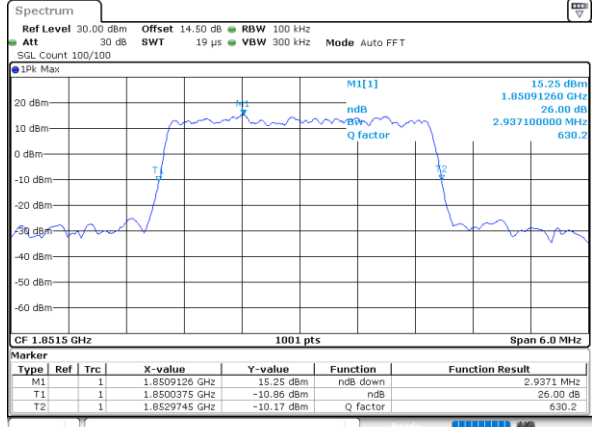
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



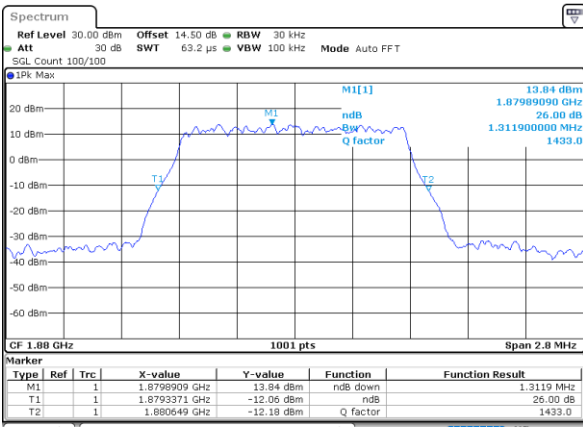
Date: 30 JUN 2021 20:42:38

Lowest Channel / 3MHz / 64QAM



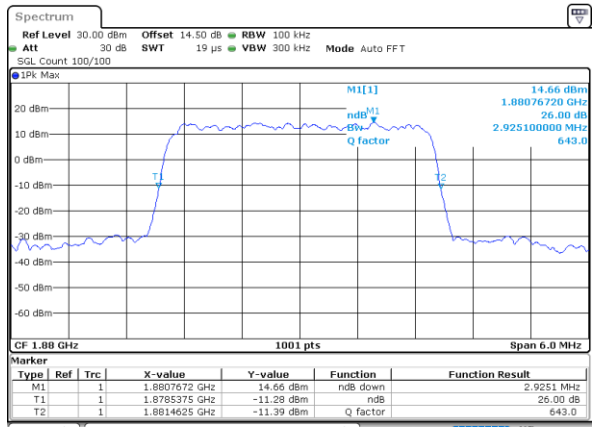
Date: 30 JUN 2021 17:56:11

Middle Channel / 1.4MHz / 64QAM



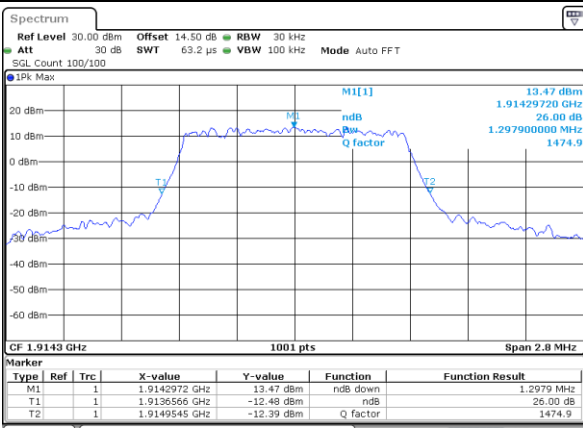
Date: 30 JUN 2021 20:47:57

Middle Channel / 3MHz / 64QAM



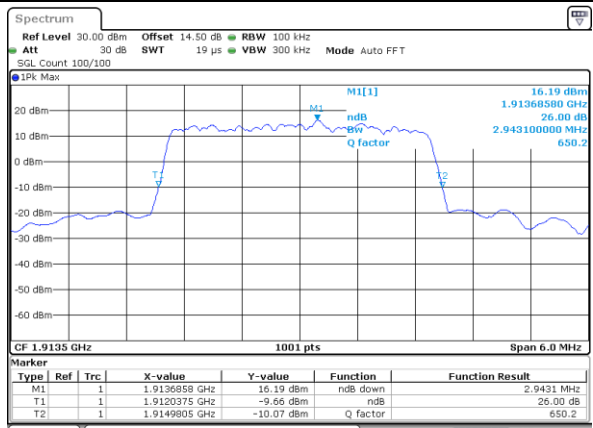
Date: 30 JUN 2021 17:59:58

Highest Channel / 1.4MHz / 64QAM



Date: 30 JUN 2021 20:49:49

Highest Channel / 3MHz / 64QAM

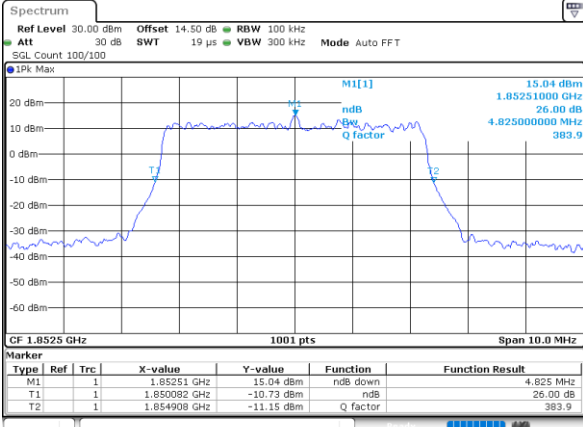


Date: 30 JUN 2021 18:01:52



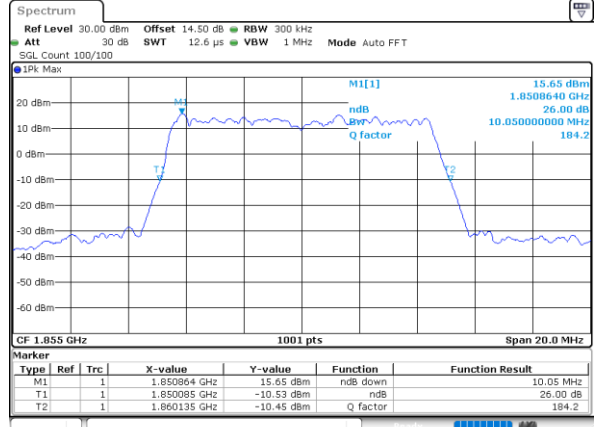
LTE Band 25

Lowest Channel / 5MHz / 64QAM



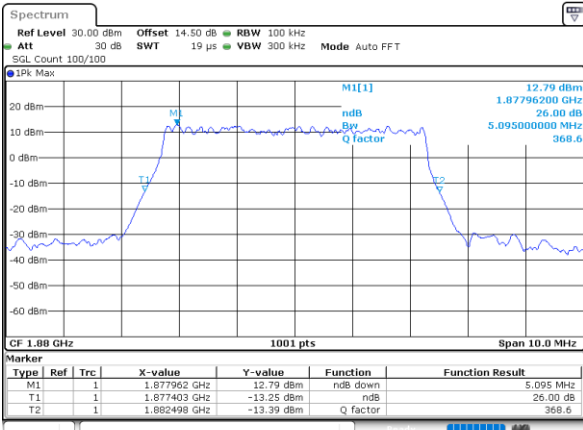
Date: 30 JUN 2021 19:44:32

Lowest Channel / 10MHz / 64QAM



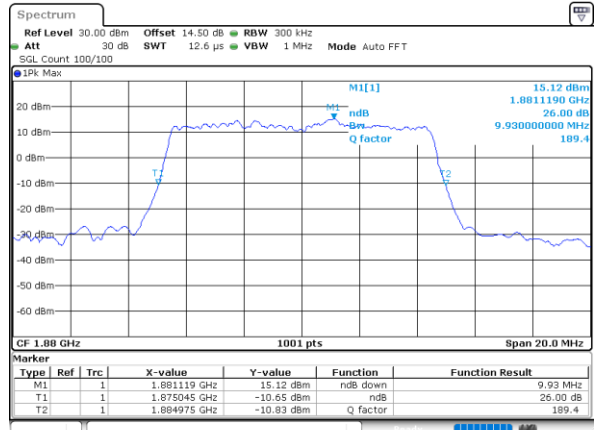
Date: 30 JUN 2021 19:14:06

Middle Channel / 5MHz / 64QAM



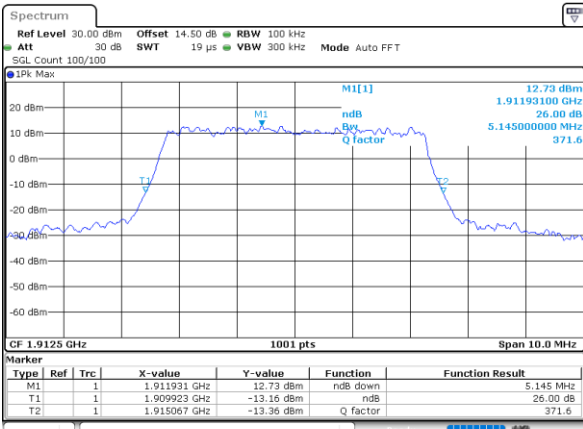
Date: 30 JUN 2021 19:48:20

Middle Channel / 10MHz / 64QAM



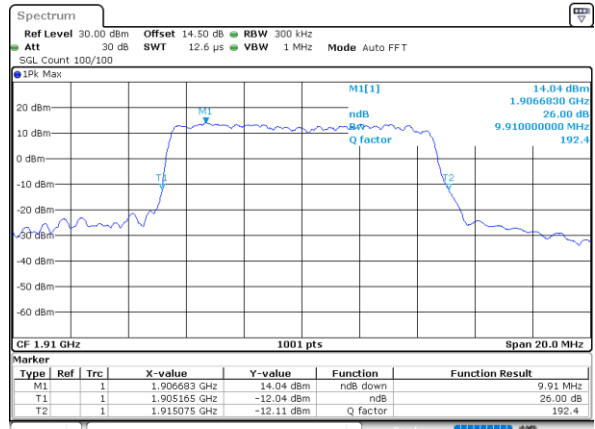
Date: 30 JUN 2021 19:17:53

Highest Channel / 5MHz / 64QAM



Date: 30 JUN 2021 19:50:12

Highest Channel / 10MHz / 64QAM

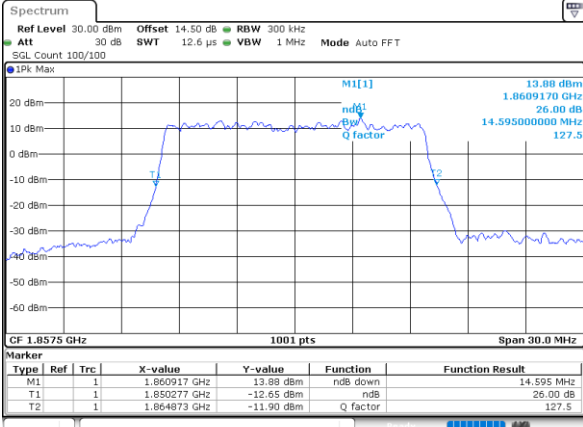


Date: 30 JUN 2021 19:11:45



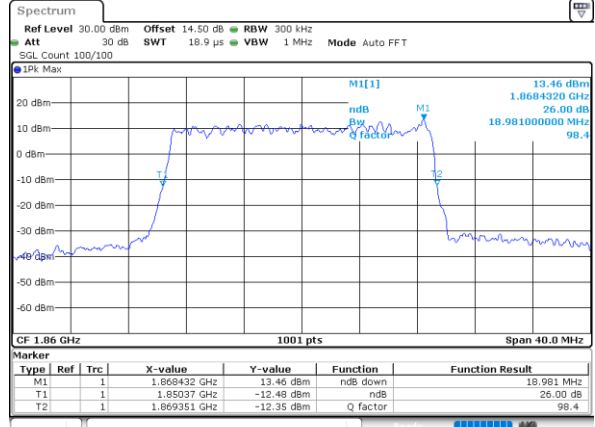
LTE Band 25

Lowest Channel / 15MHz / 64QAM



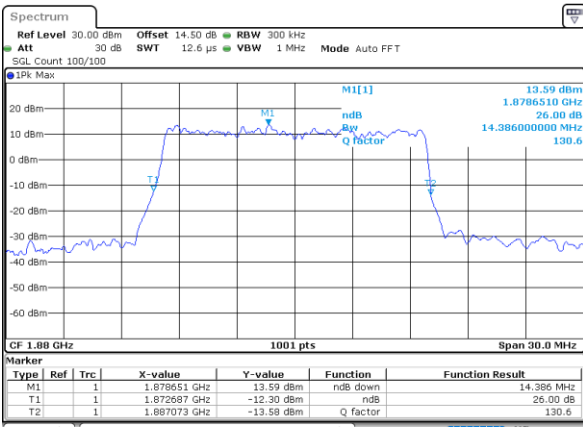
Date: 30 JUN 2021 19:23:35

Lowest Channel / 20MHz / 64QAM



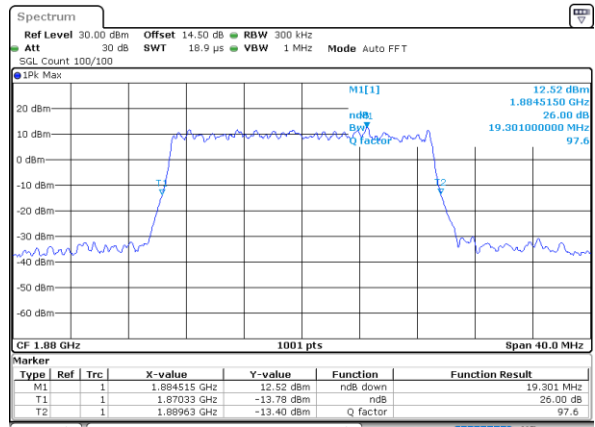
Date: 30 JUN 2021 20:13:10

Middle Channel / 15MHz / 64QAM



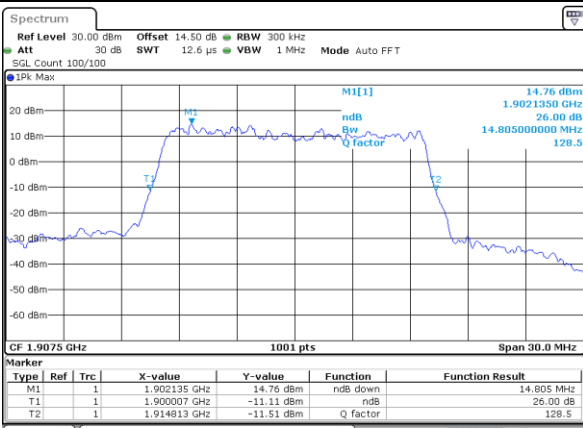
Date: 30 JUN 2021 19:27:22

Middle Channel / 20MHz / 64QAM



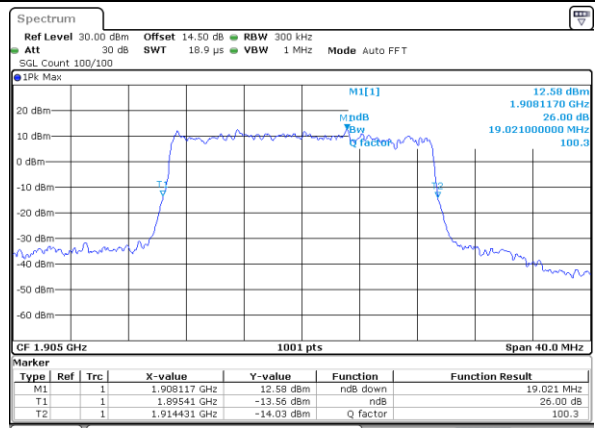
Date: 30 JUN 2021 20:16:56

Highest Channel / 15MHz / 64QAM



Date: 30 JUN 2021 19:29:15

Highest Channel / 20MHz / 64QAM



Date: 30 JUN 2021 20:18:49





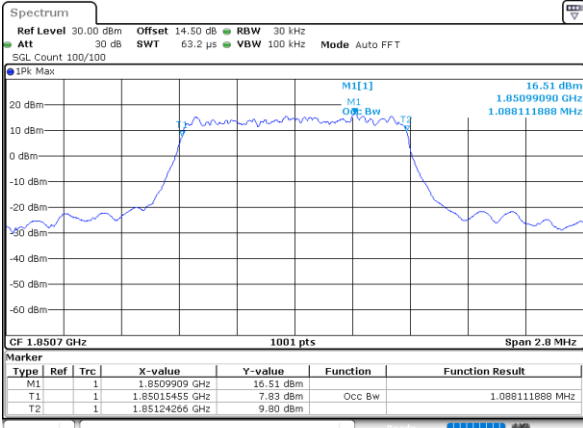
### Occupied Bandwidth

Mode	LTE Band 25 : 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	1.09	2.72	2.70	4.48	4.49	8.99	9.01	13.49	13.43	17.90	17.90
Middle CH	1.09	1.08	2.70	2.71	4.53	4.50	8.99	9.07	13.49	13.49	17.82	17.86
Highest CH	1.09	1.09	2.70	2.70	4.50	4.50	9.03	9.07	13.43	13.49	17.94	17.86
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.70	-	4.51	-	9.07	-	13.49	-	17.98	-
Middle CH	1.09	-	2.70	-	4.48	-	9.05	-	13.37	-	17.82	-
Highest CH	1.10	-	2.70	-	4.51	-	8.99	-	13.31	-	17.90	-



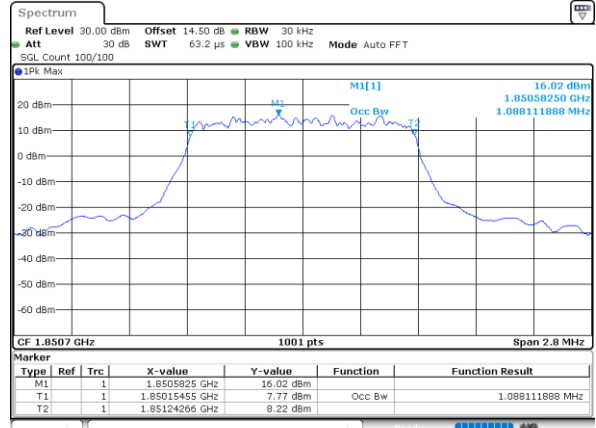
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



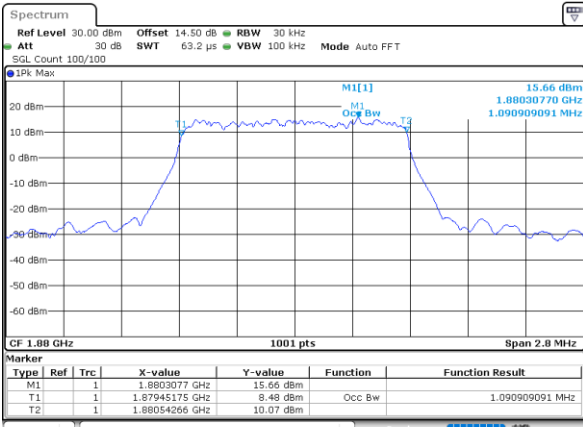
Date: 30 JUN 2021 20:22:20

Lowest Channel / 1.4MHz / 16QAM



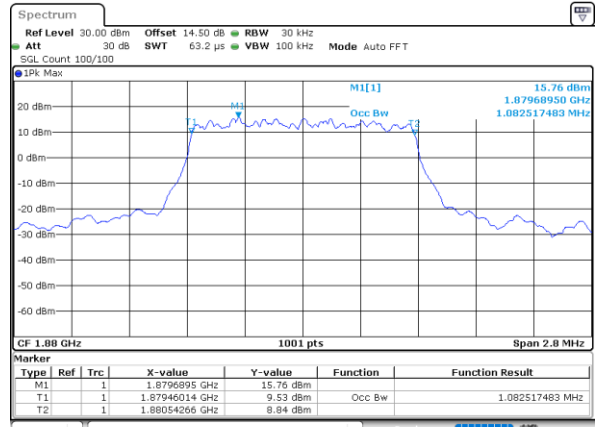
Date: 30 JUN 2021 20:22:45

Middle Channel / 1.4MHz / QPSK



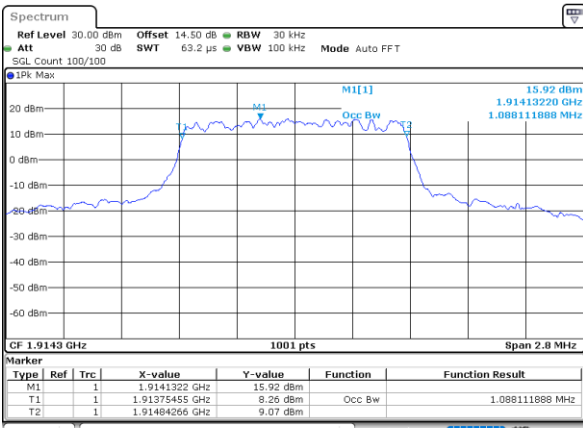
Date: 30 JUN 2021 20:30:28

Middle Channel / 1.4MHz / 16QAM



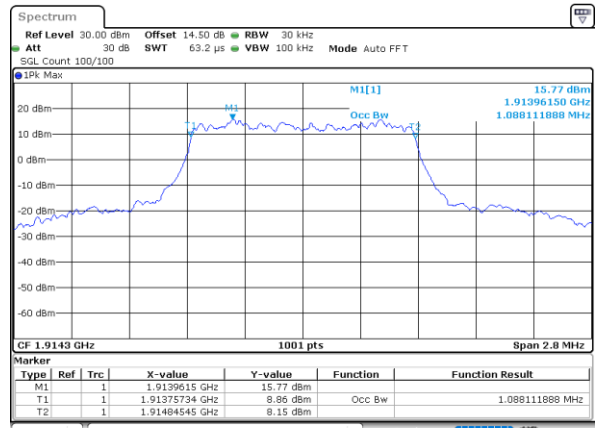
Date: 30 JUN 2021 20:30:53

Highest Channel / 1.4MHz / QPSK



Date: 30 JUN 2021 20:34:31

Highest Channel / 1.4MHz / 16QAM

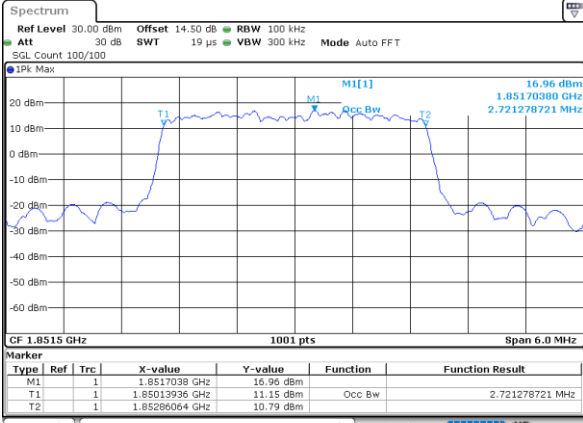


Date: 30 JUN 2021 20:34:56



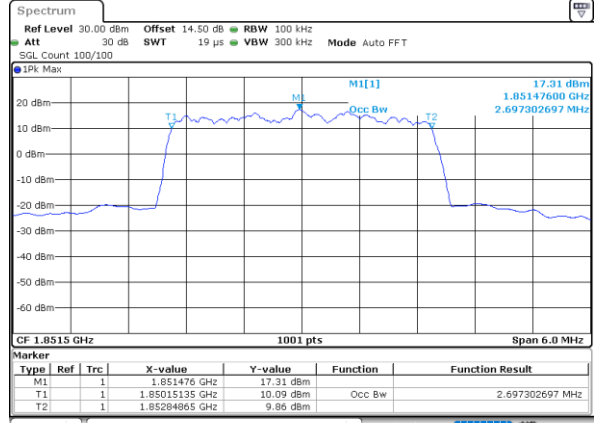
LTE Band 25

Lowest Channel / 3MHz / QPSK



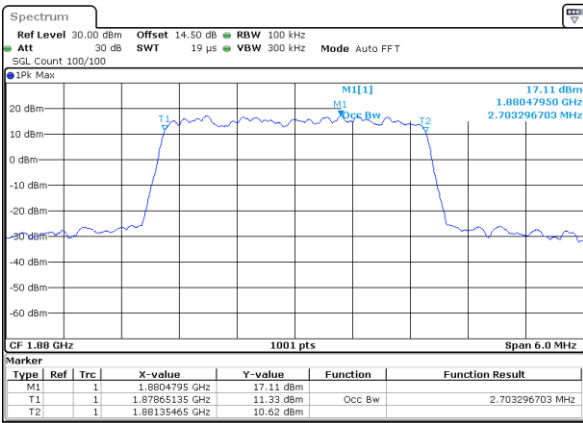
Date: 30 JUN 2021 18:05:22

Lowest Channel / 3MHz / 16QAM



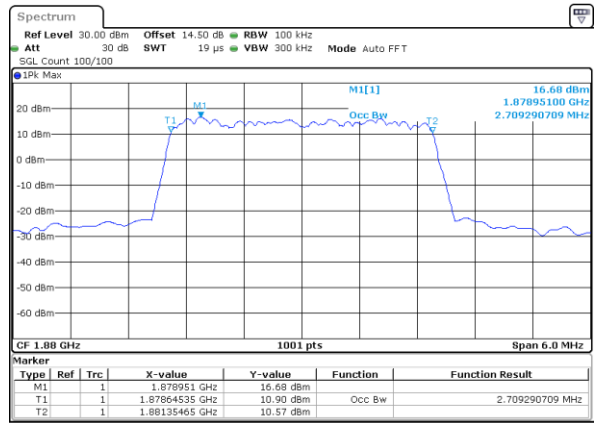
Date: 30 JUN 2021 18:05:47

Middle Channel / 3MHz / QPSK



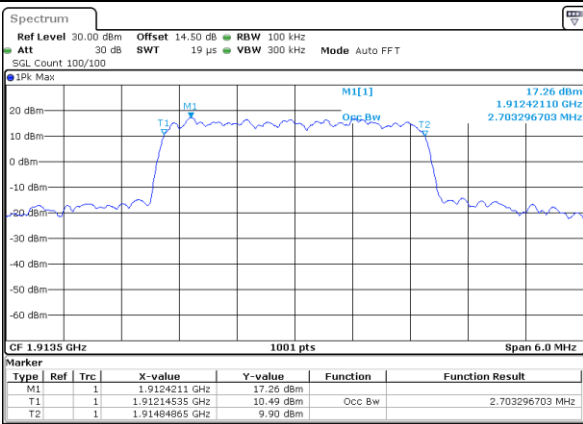
Date: 30 JUN 2021 18:12:17

Middle Channel / 3MHz / 16QAM



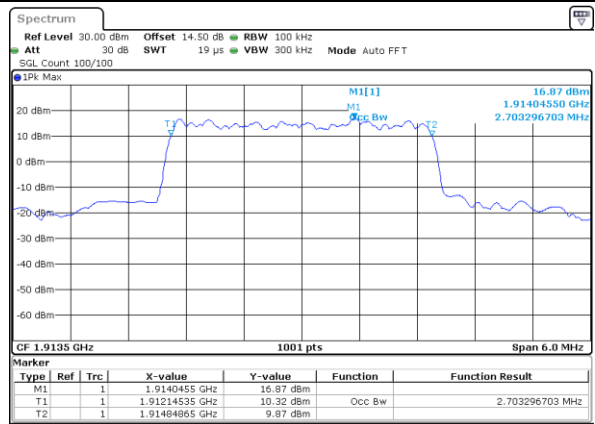
Date: 30 JUN 2021 18:12:42

Highest Channel / 3MHz / QPSK



Date: 30 JUN 2021 18:16:20

Highest Channel / 3MHz / 16QAM

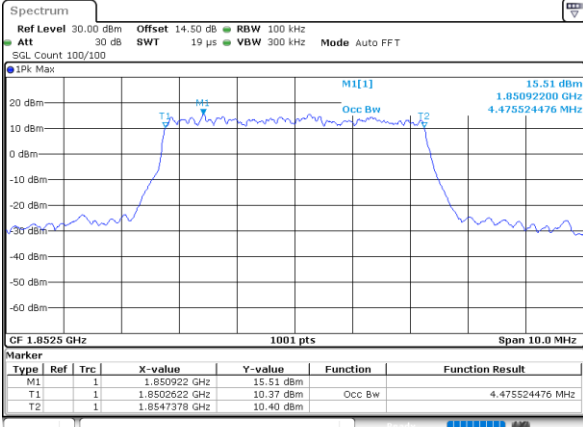


Date: 30 JUN 2021 18:16:45



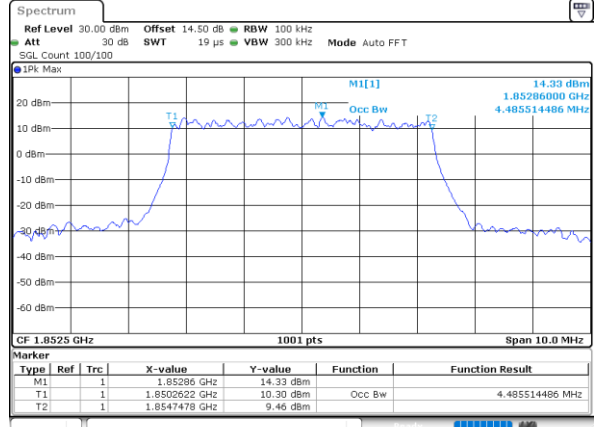
LTE Band 25

Lowest Channel / 5MHz / QPSK



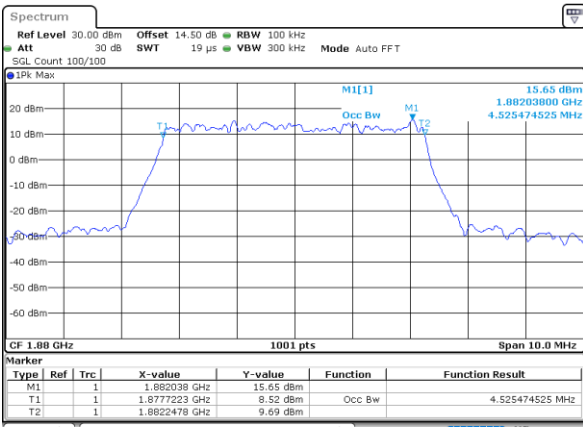
Date: 30 JUN 2021 18:24:14

Lowest Channel / 5MHz / 16QAM



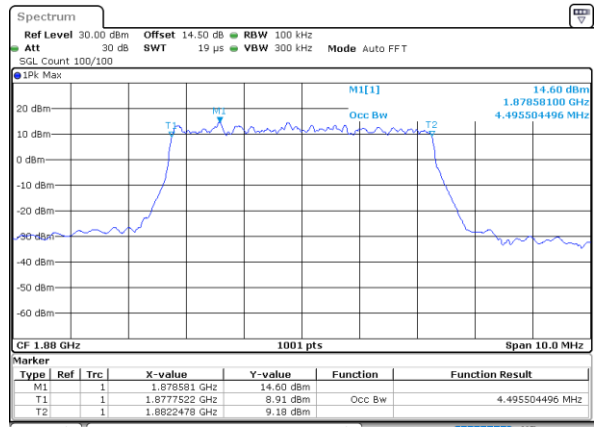
Date: 30 JUN 2021 18:24:39

Middle Channel / 5MHz / QPSK



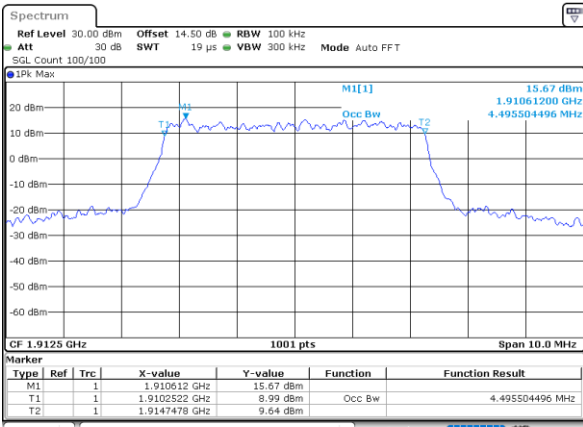
Date: 30 JUN 2021 18:32:22

Middle Channel / 5MHz / 16QAM



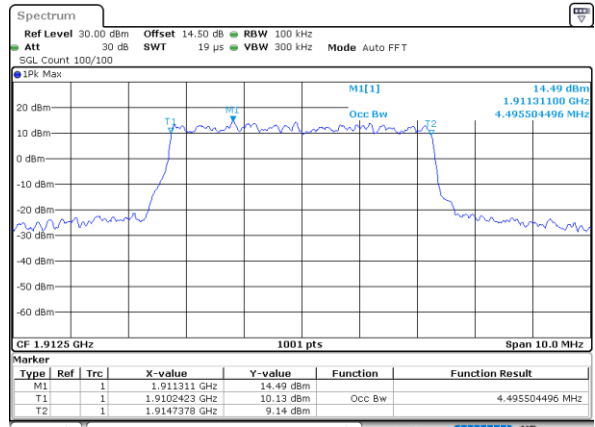
Date: 30 JUN 2021 18:32:47

Highest Channel / 5MHz / QPSK



Date: 30 JUN 2021 18:36:25

Highest Channel / 5MHz / 16QAM



Date: 30 JUN 2021 18:36:50