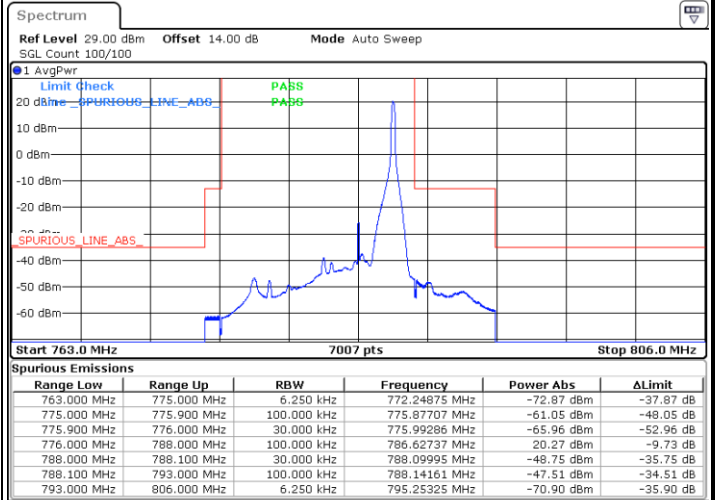
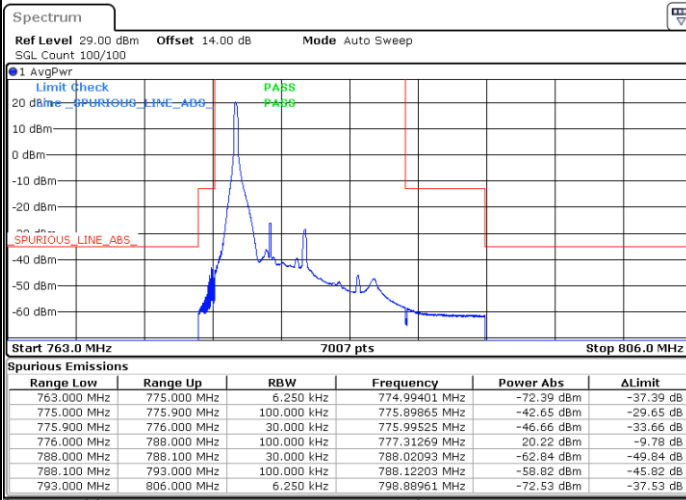




LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

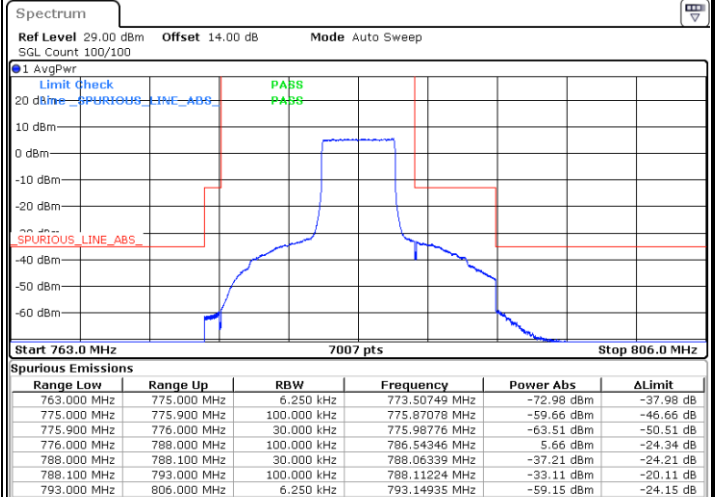
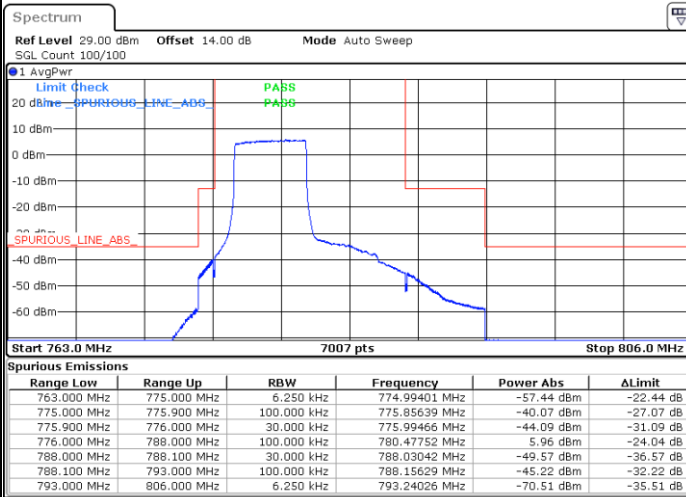


Date: 12.AUG.2021 15:06:59

Date: 12.AUG.2021 15:21:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2021 15:05:19

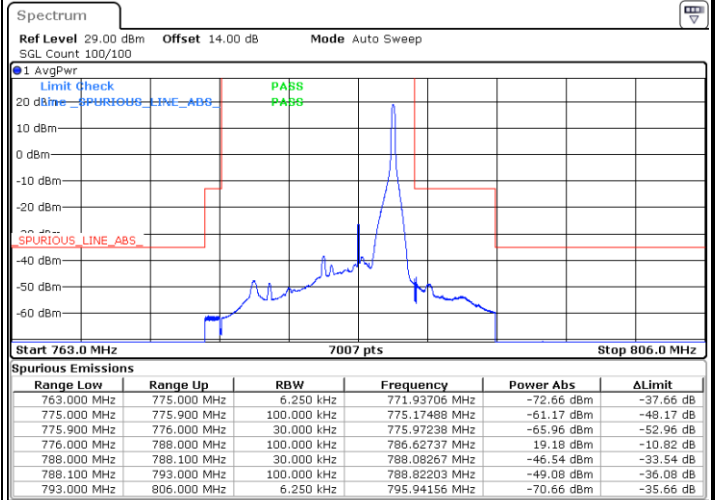
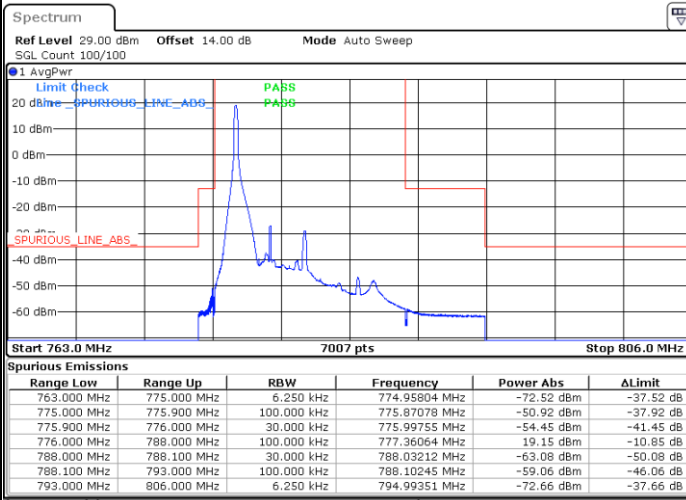
Date: 12.AUG.2021 15:20:01



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

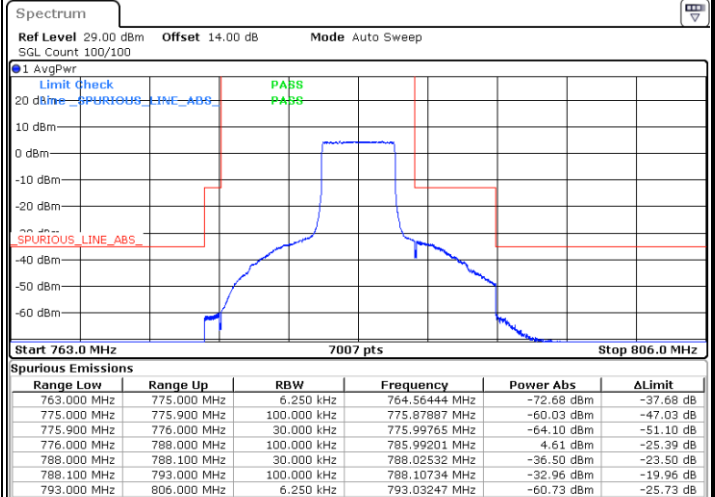
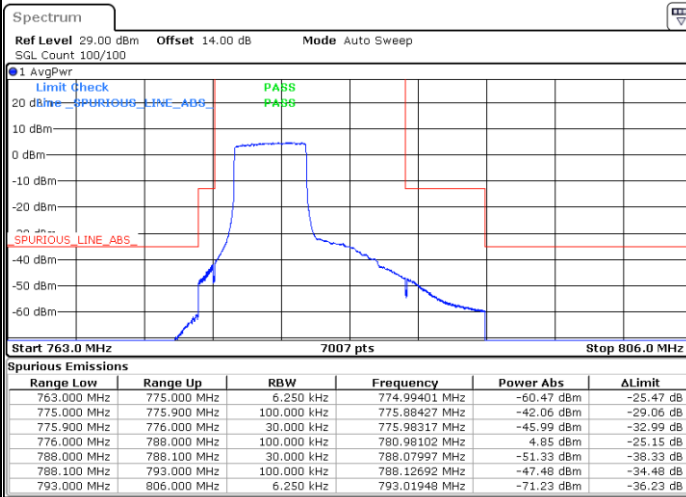


Date: 12.AUG.2021 15:30:19

Date: 12.AUG.2021 15:37:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



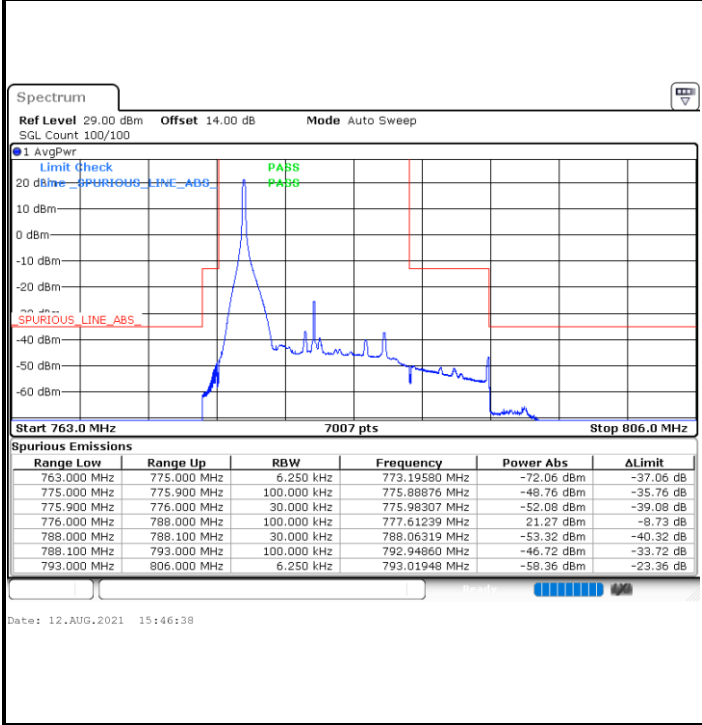
Date: 12.AUG.2021 15:28:40

Date: 12.AUG.2021 15:36:00

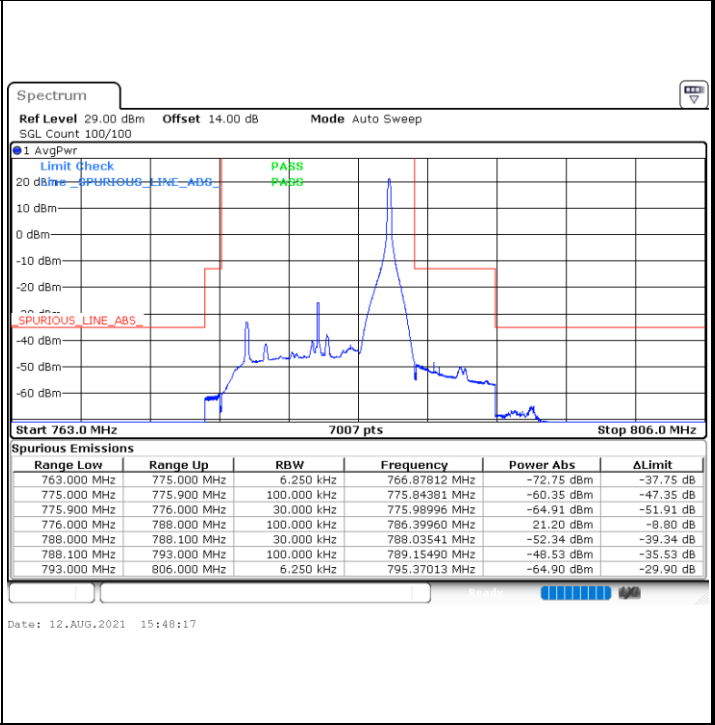


**LTE Band 13 / 10MHz / QPSK**

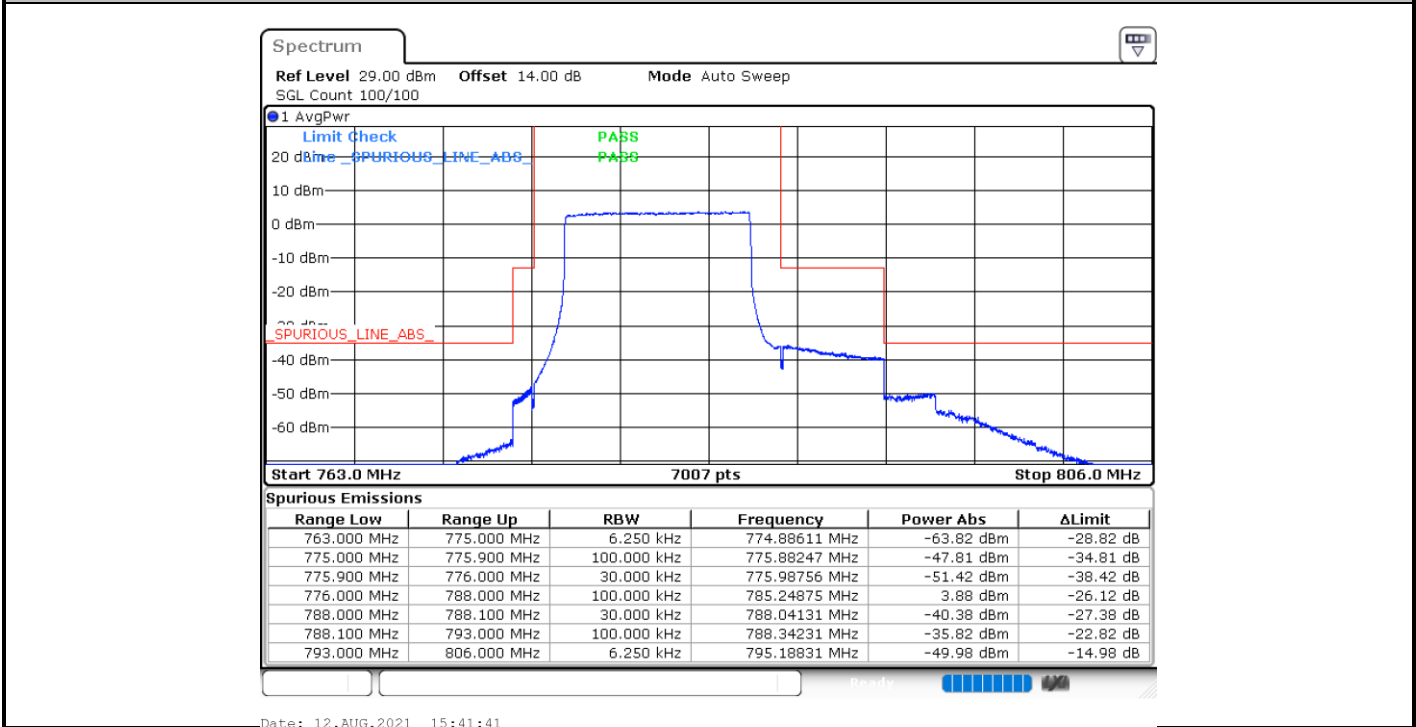
**Lowest Band Edge / 1 RB**



**Highest Band Edge / 1 RB**



**Band Edge / Full RB**

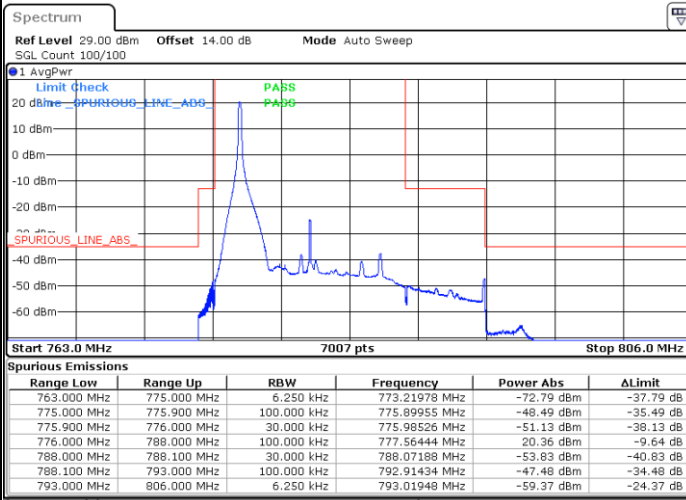




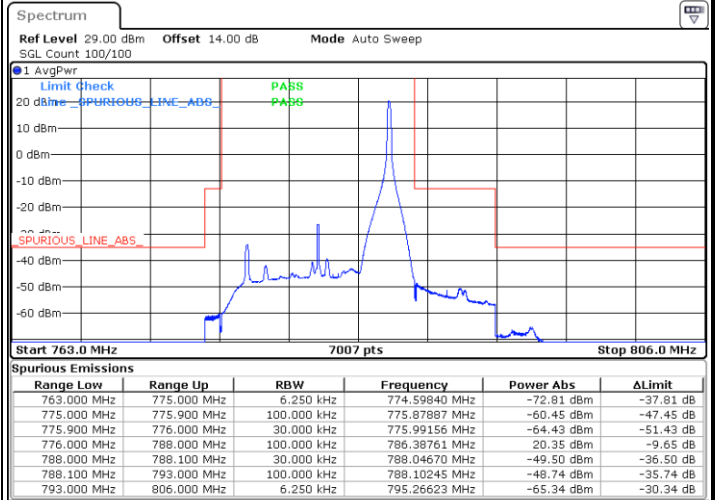
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

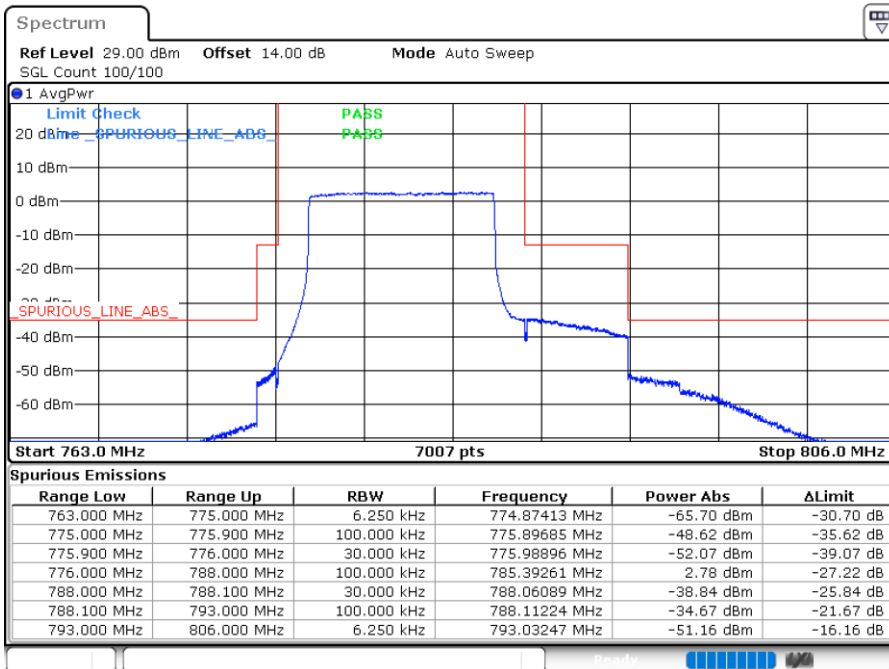


Date: 12.AUG.2021 15:44:59



Date: 12.AUG.2021 15:49:56

Band Edge / Full RB



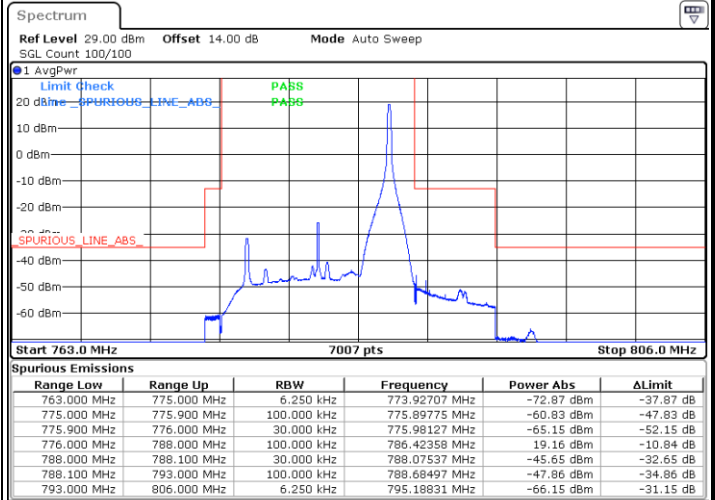
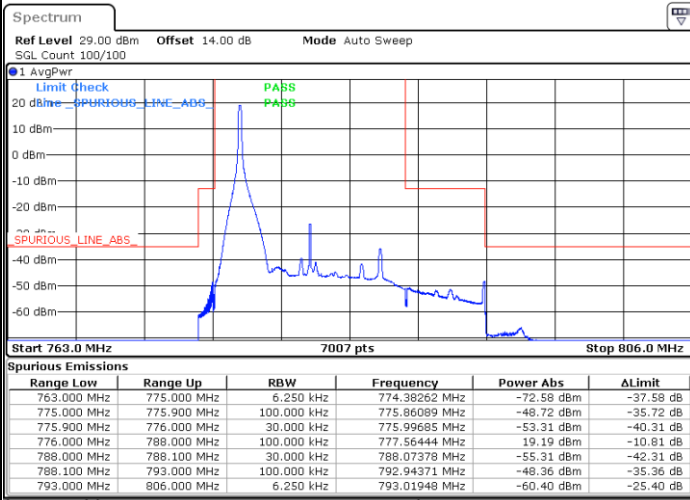
Date: 12.AUG.2021 15:43:20



LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

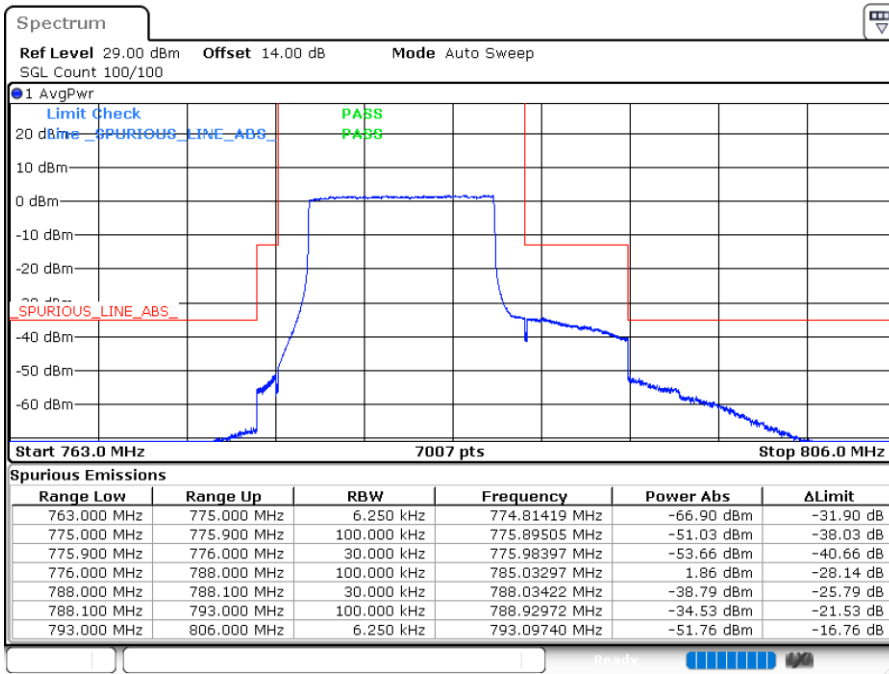
Highest Band Edge / 1 RB



Date: 12.AUG.2021 15:56:55

Date: 12.AUG.2021 15:58:34

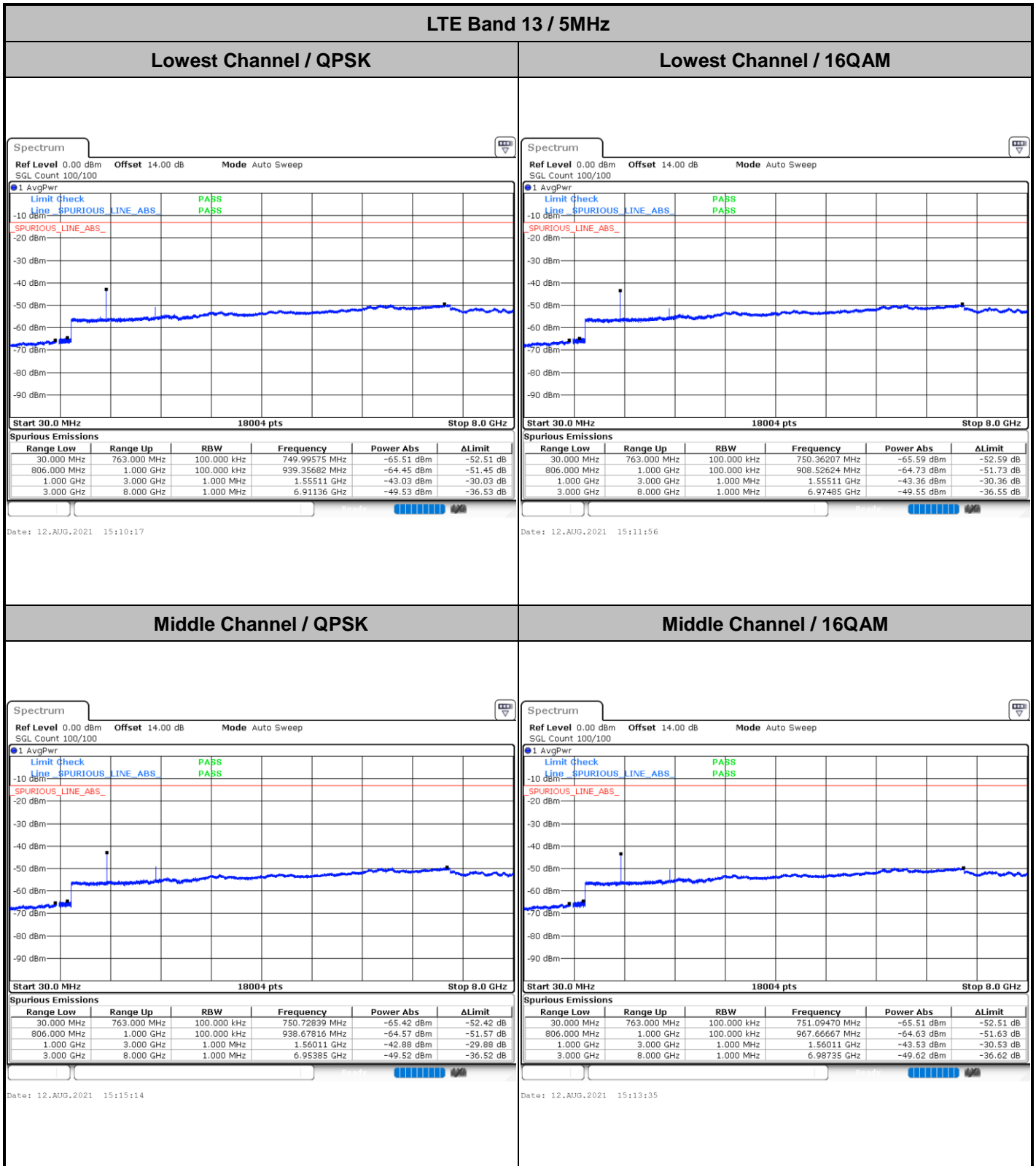
Band Edge / Full RB



Date: 12.AUG.2021 15:55:15



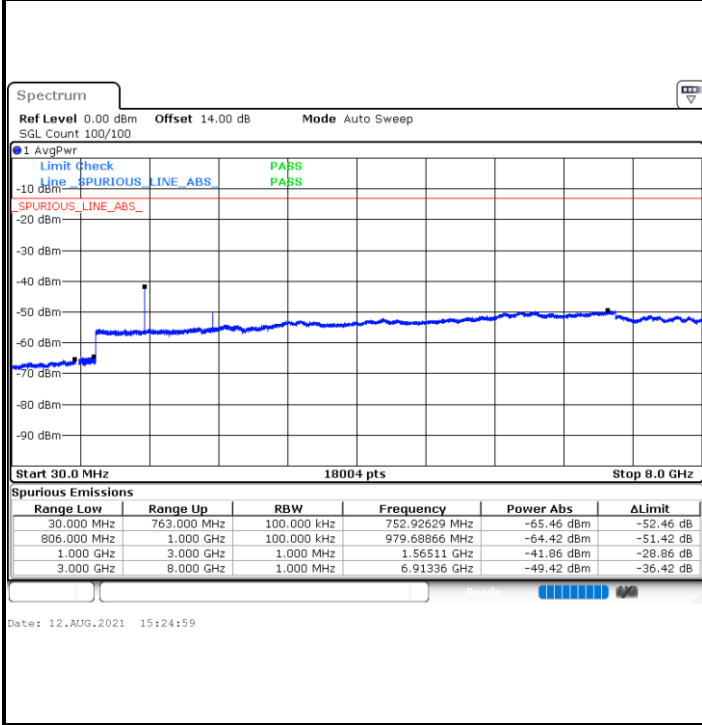
# Conducted Spurious Emission



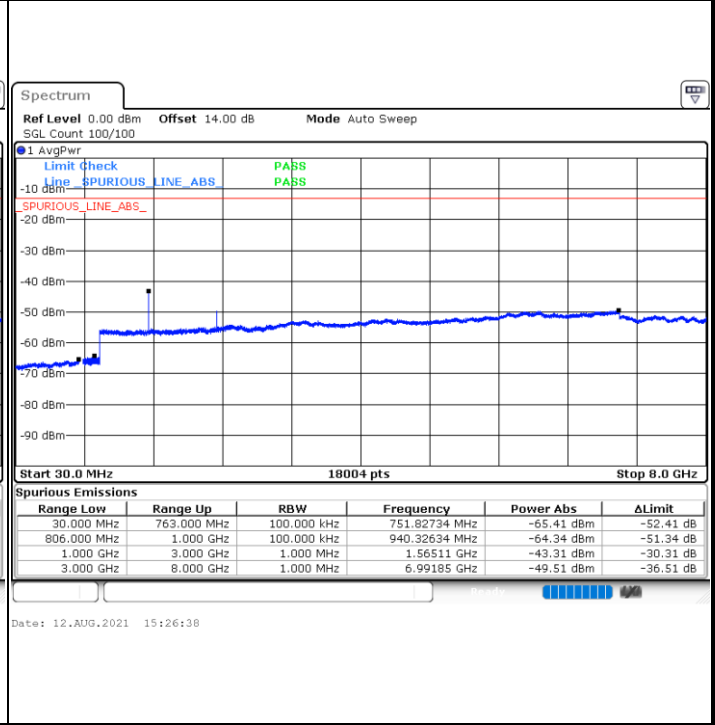


LTE Band 13 / 5MHz

Highest Channel / QPSK

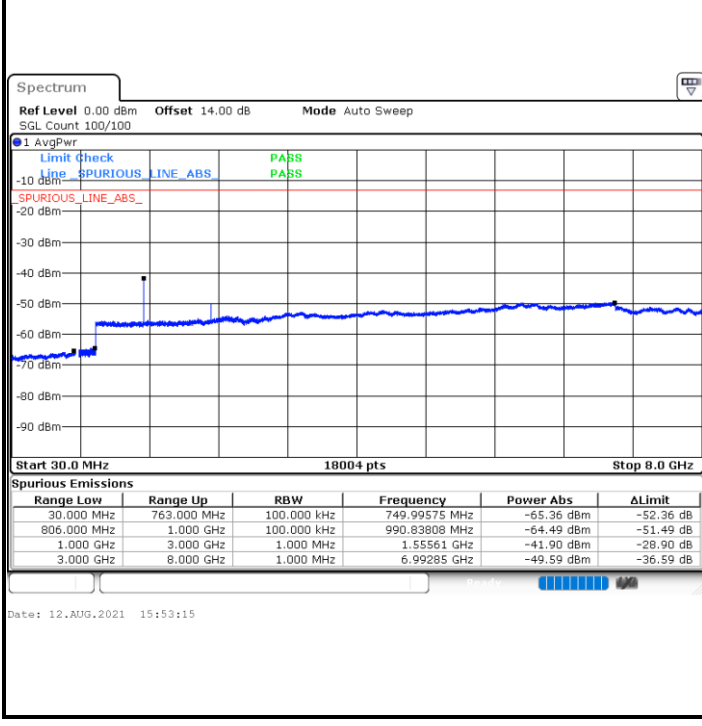


Highest Channel / 16QAM

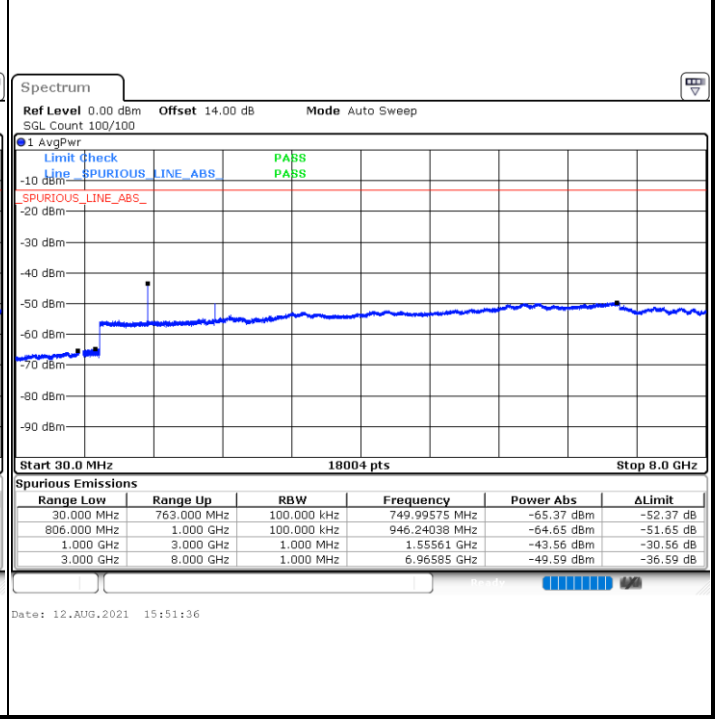


LTE Band 13 / 10MHz

Middle Channel / QPSK



Middle Channel / 16QAM

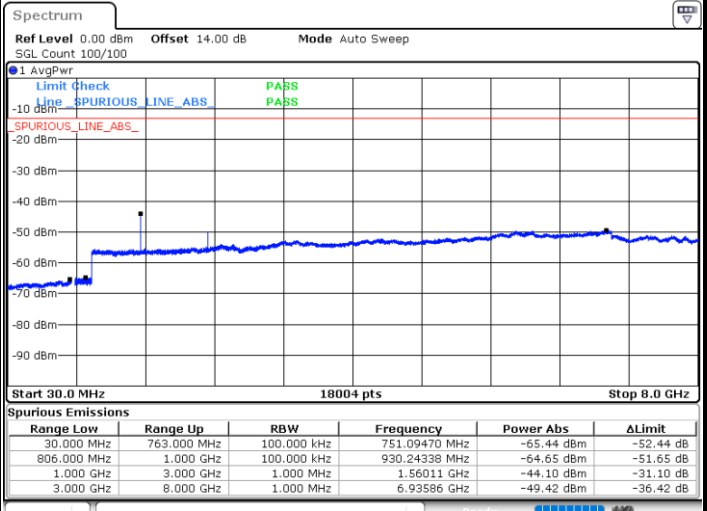
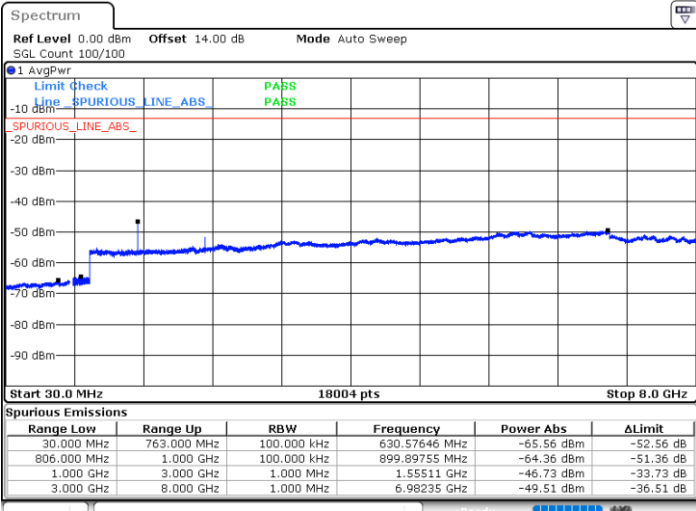




LTE Band 13 / 5MHz

Lowest Channel / 64QAM

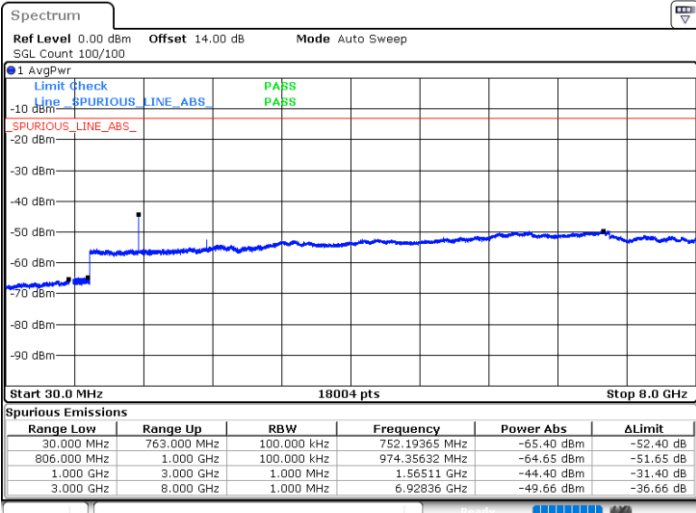
Middle Channel / 64QAM



Date: 12.AUG.2021 15:31:58

Date: 12.AUG.2021 15:33:37

Highest Channel / 64QAM



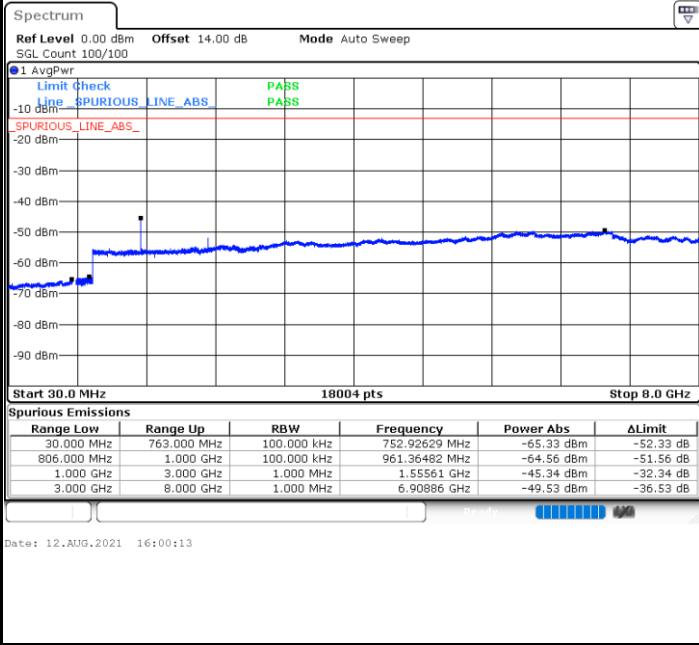
Date: 12.AUG.2021 15:39:18





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	0.0013	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0230	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0229	
-20	Normal Voltage	0.0206	
-30	Normal Voltage	0.0224	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

**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

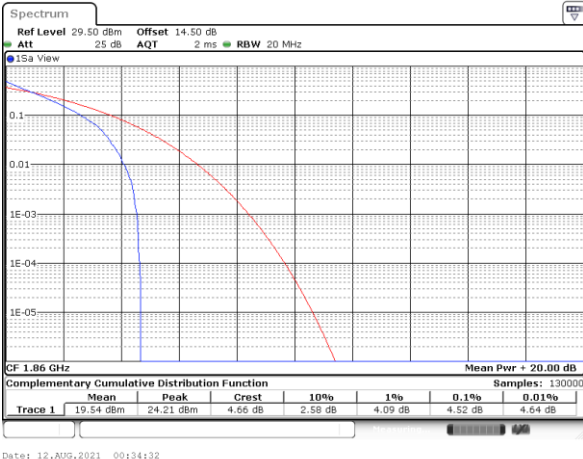
## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	5.13	5.48	6.00	PASS
Middle CH	5.01	5.13	5.86	6.17	
Highest CH	4.61	5.19	5.57	6.06	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.09	6.35	-	-	PASS
Middle CH	6.64	6.35	-	-	
Highest CH	6.35	6.38	-	-	



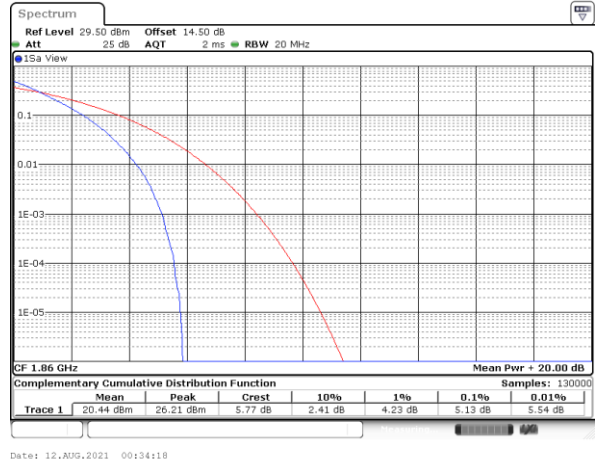
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



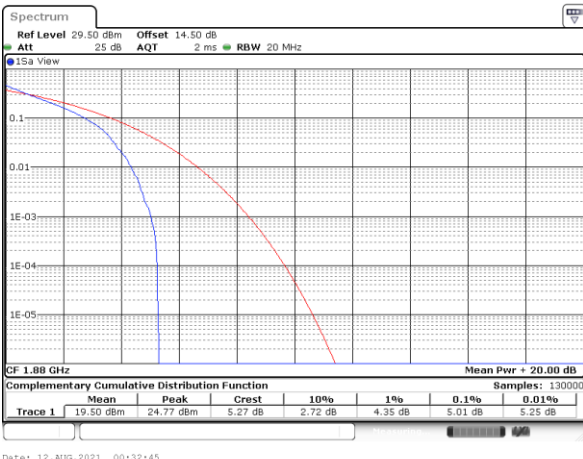
Date: 12\_AUG.2021 00:34:32

Lowest Channel / Full RB



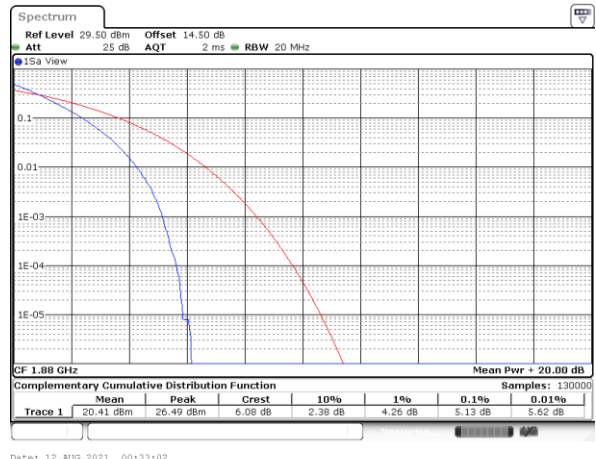
Date: 12\_AUG.2021 00:34:18

Middle Channel / 1RB



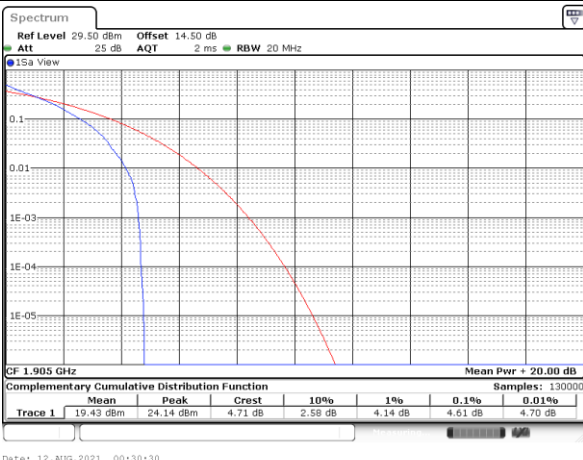
Date: 12\_AUG.2021 00:32:45

Middle Channel / Full RB



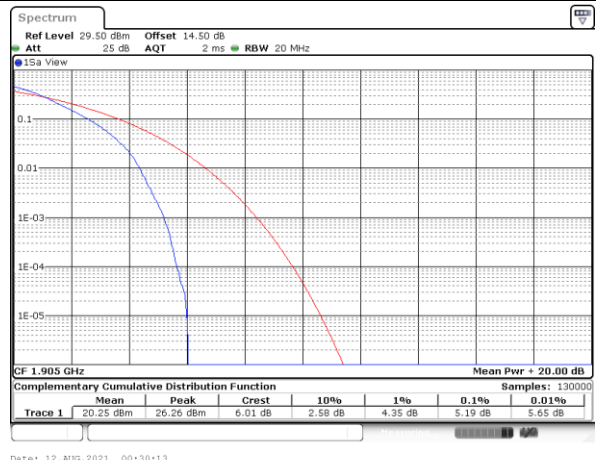
Date: 12\_AUG.2021 00:33:02

Highest Channel / 1RB



Date: 12\_AUG.2021 00:30:30

Highest Channel / Full RB

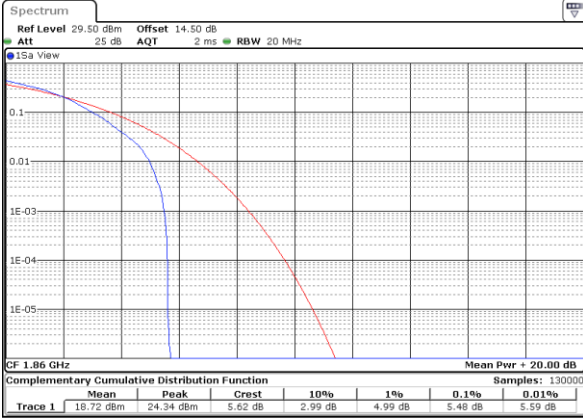


Date: 12\_AUG.2021 00:30:13



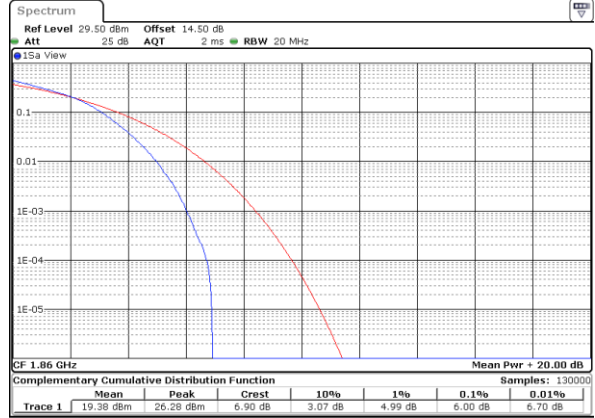
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



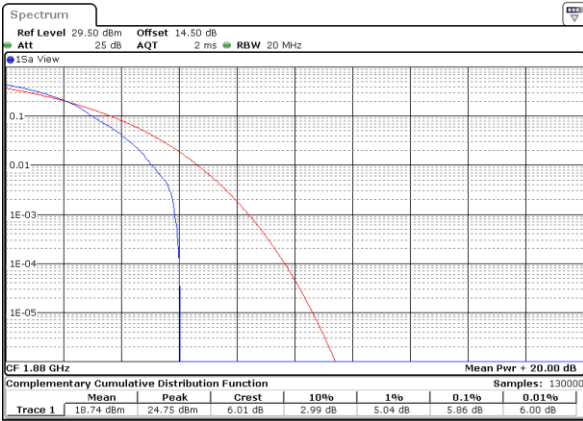
Date: 12\_AUG.2021 00:34:44

Lowest Channel / Full RB



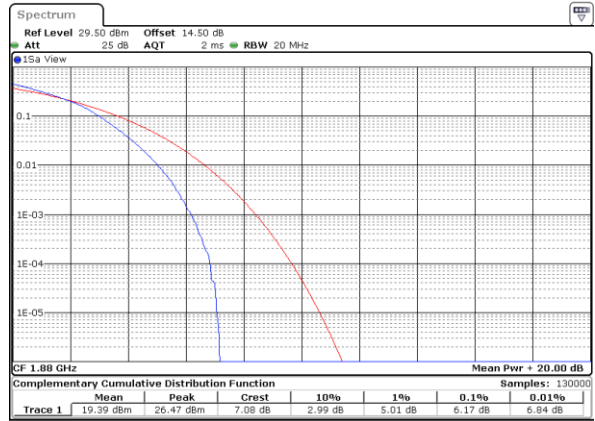
Date: 12\_AUG.2021 00:34:08

Middle Channel / 1RB



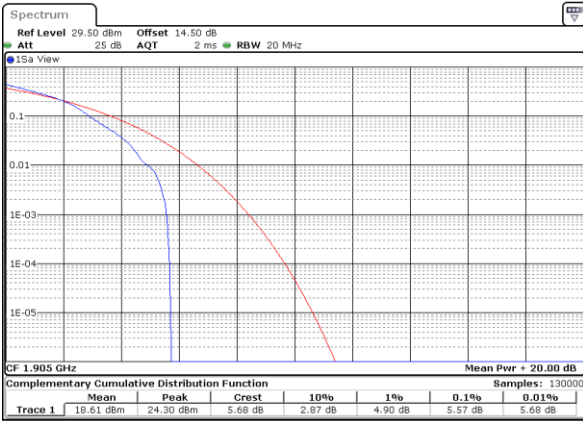
Date: 12\_AUG.2021 00:32:03

Middle Channel / Full RB



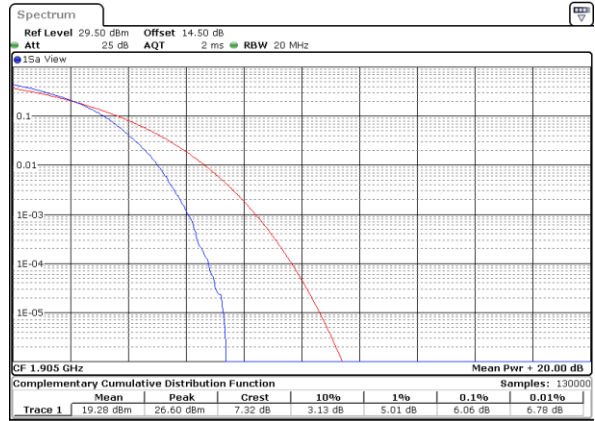
Date: 12\_AUG.2021 00:33:14

Highest Channel / 1RB



Date: 12\_AUG.2021 00:30:43

Highest Channel / Full RB

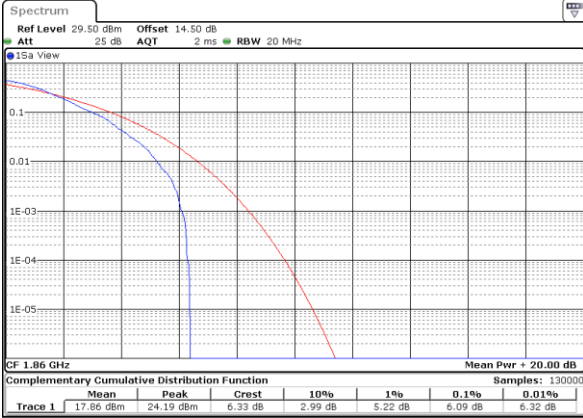


Date: 12\_AUG.2021 00:30:01



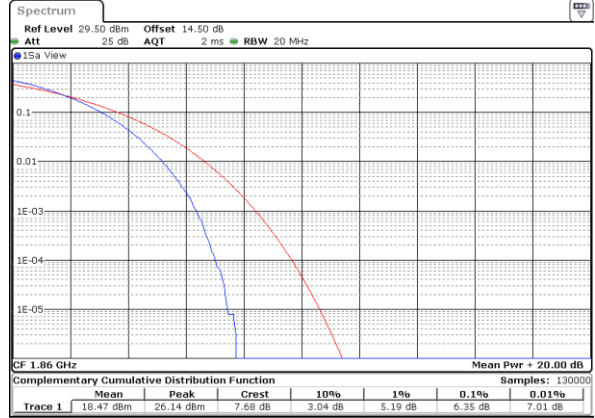
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



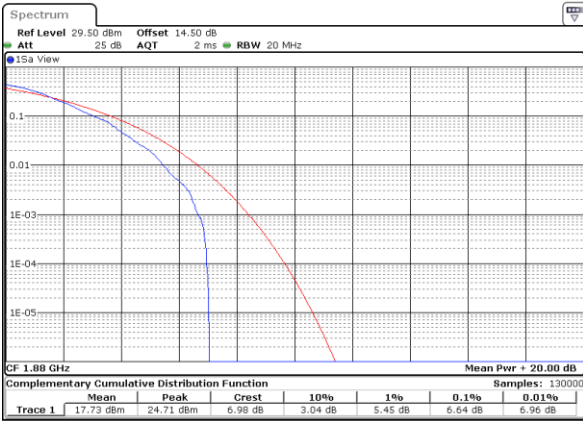
Date: 12\_AUG.2021 00:34:56

Lowest Channel / Full RB



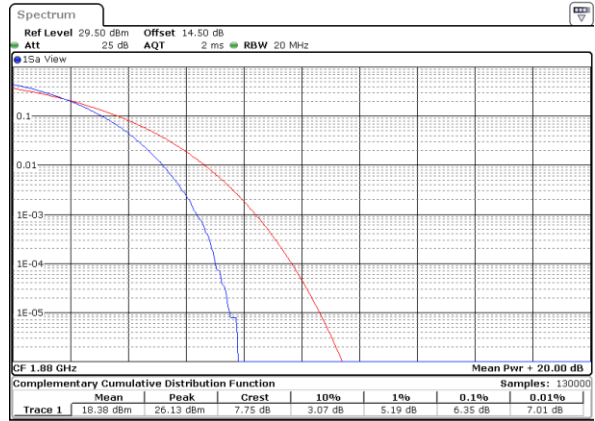
Date: 12\_AUG.2021 00:33:56

Middle Channel / 1RB



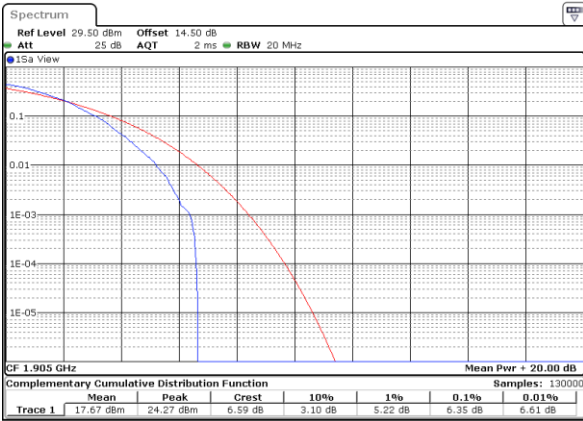
Date: 12\_AUG.2021 00:32:21

Middle Channel / Full RB



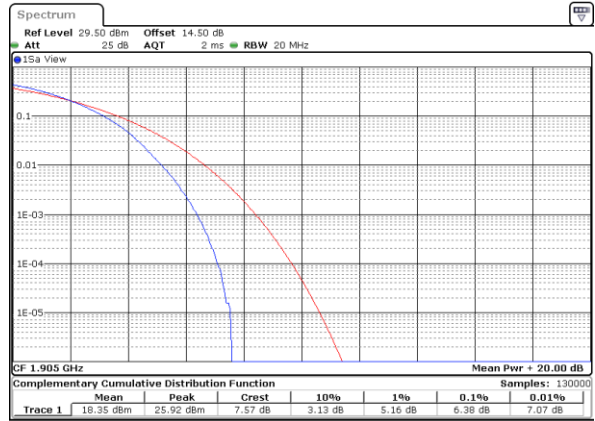
Date: 12\_AUG.2021 00:33:27

Highest Channel / 1RB



Date: 12\_AUG.2021 00:32:01

Highest Channel / Full RB



Date: 12\_AUG.2021 00:29:31



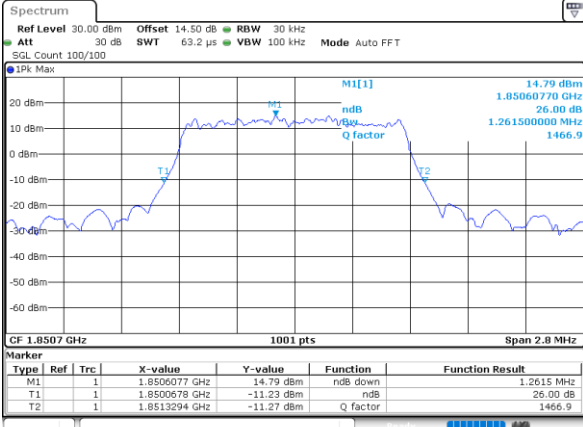
26dB Bandwidth

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	1.26	1.25	2.97	2.95	5.09	5.02	9.77	9.81	14.75	14.72	18.94	19.70
Middle CH	1.27	1.26	2.97	2.94	5.13	5.05	9.81	10.19	14.93	14.39	18.98	19.22
Highest CH	1.28	1.29	2.97	2.94	4.92	4.96	9.65	9.85	14.57	14.45	19.10	18.86
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.25	-	2.94	-	5.10	-	9.91	-	14.21	-	19.58	-
Middle CH	1.27	-	2.94	-	5.05	-	9.65	-	14.33	-	19.06	-
Highest CH	1.27	-	2.95	-	5.06	-	9.83	-	14.66	-	19.10	-



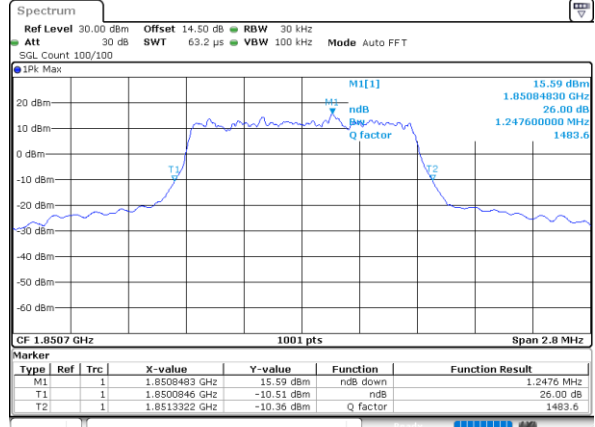
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



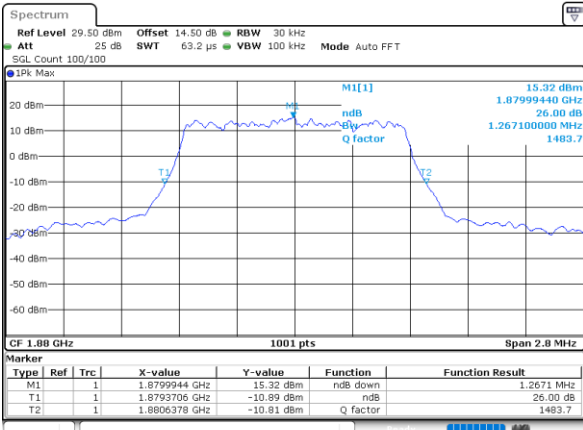
Date: 11.AUG.2021 19:33:08

Lowest Channel / 1.4MHz / 16QAM



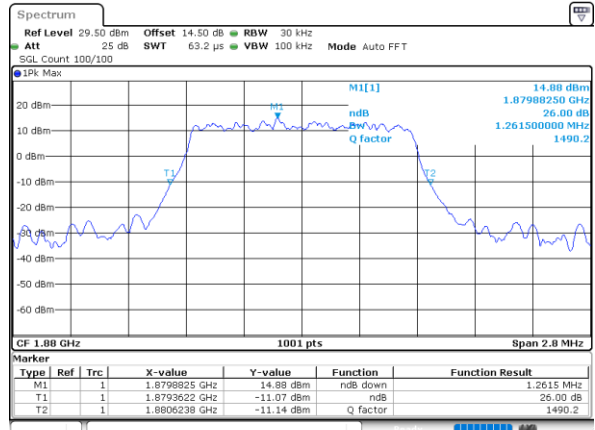
Date: 11.AUG.2021 19:39:02

Middle Channel / 1.4MHz / QPSK



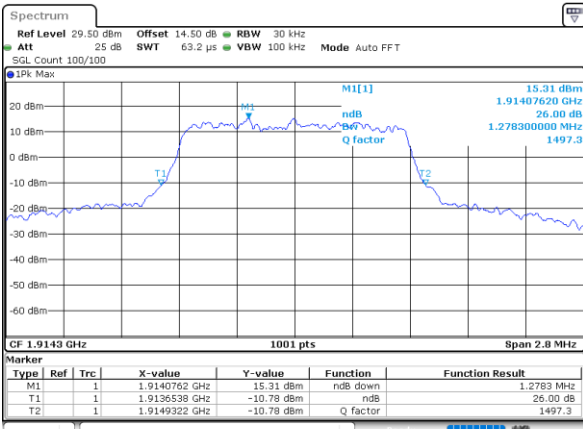
Date: 11.AUG.2021 20:07:47

Middle Channel / 1.4MHz / 16QAM



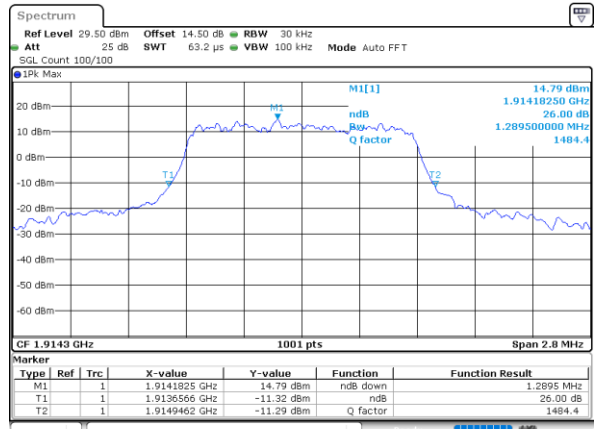
Date: 11.AUG.2021 20:07:29

Highest Channel / 1.4MHz / QPSK



Date: 11.AUG.2021 20:08:34

Highest Channel / 1.4MHz / 16QAM



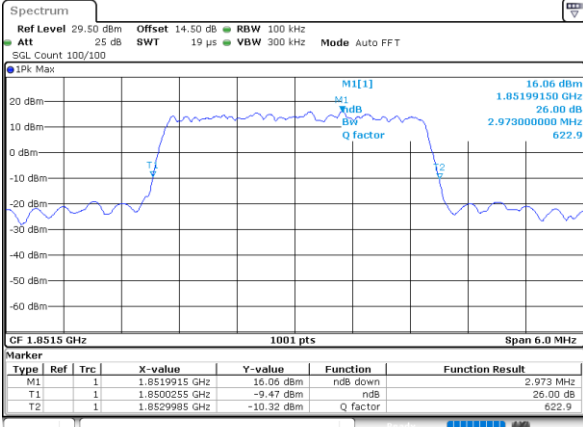
Date: 11.AUG.2021 20:10:11





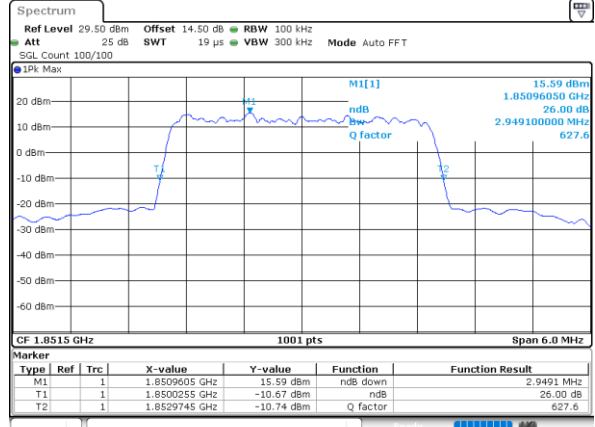
LTE Band 25

Lowest Channel / 3MHz / QPSK



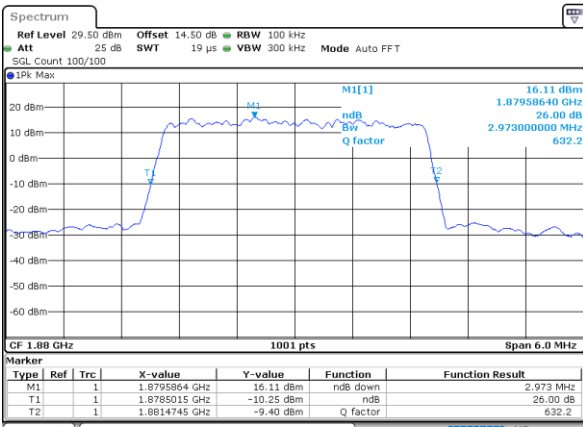
Date: 11.AUG.2021 20:35:54

Lowest Channel / 3MHz / 16QAM



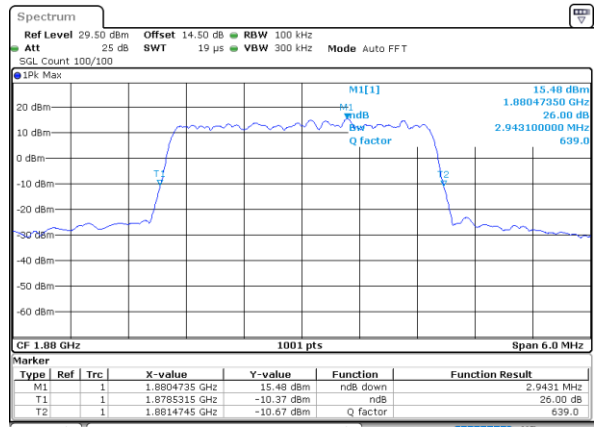
Date: 11.AUG.2021 20:34:56

Middle Channel / 3MHz / QPSK



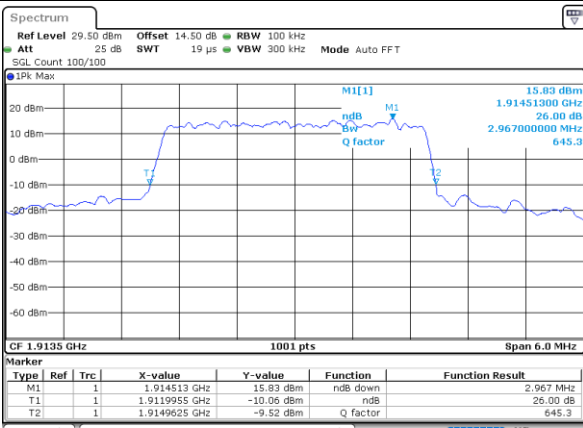
Date: 11.AUG.2021 21:08:45

Middle Channel / 3MHz / 16QAM



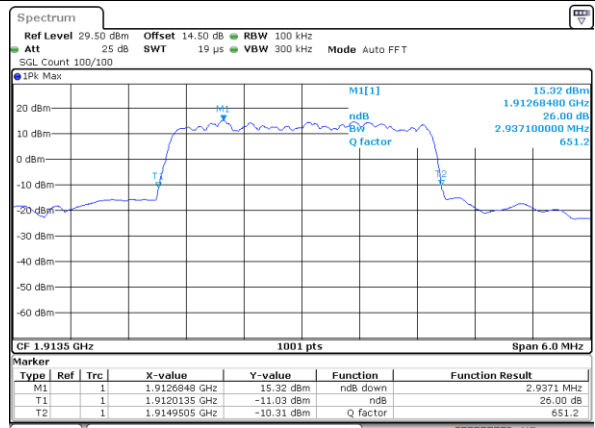
Date: 11.AUG.2021 21:08:16

Highest Channel / 3MHz / QPSK



Date: 11.AUG.2021 21:09:50

Highest Channel / 3MHz / 16QAM

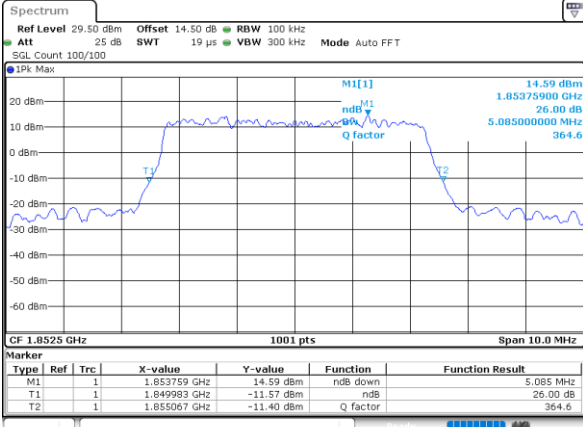


Date: 11.AUG.2021 21:10:58



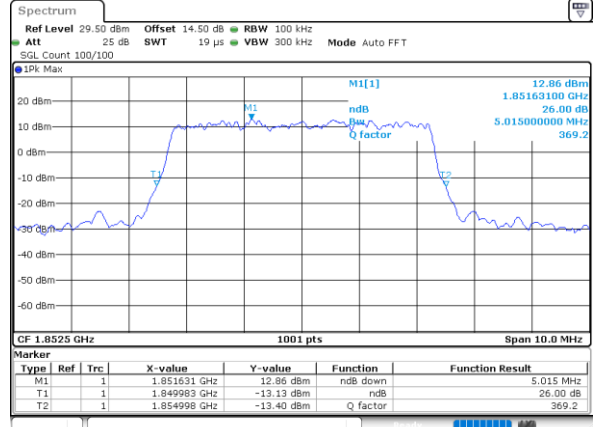
LTE Band 25

Lowest Channel / 5MHz / QPSK



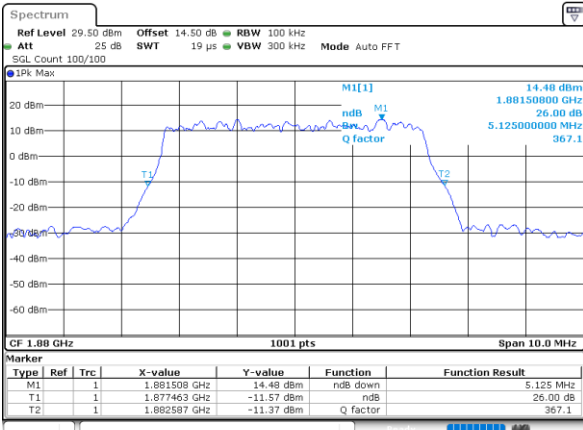
Date: 11.AUG.2021 21:23:27

Lowest Channel / 5MHz / 16QAM



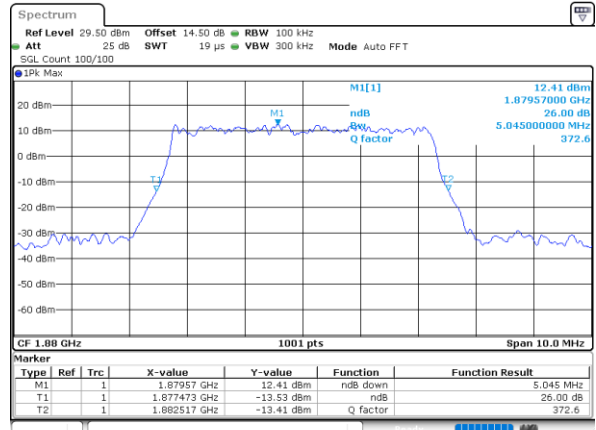
Date: 11.AUG.2021 21:22:44

Middle Channel / 5MHz / QPSK



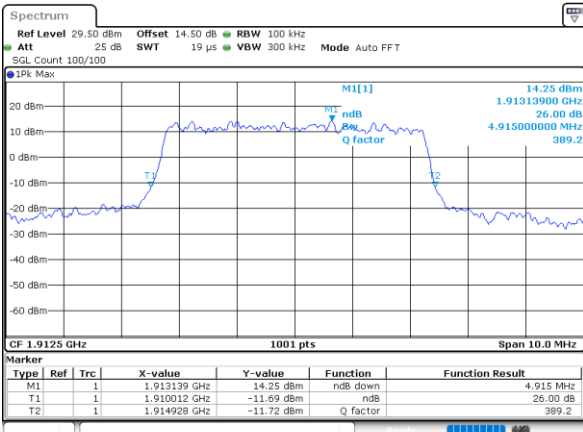
Date: 11.AUG.2021 21:35:04

Middle Channel / 5MHz / 16QAM



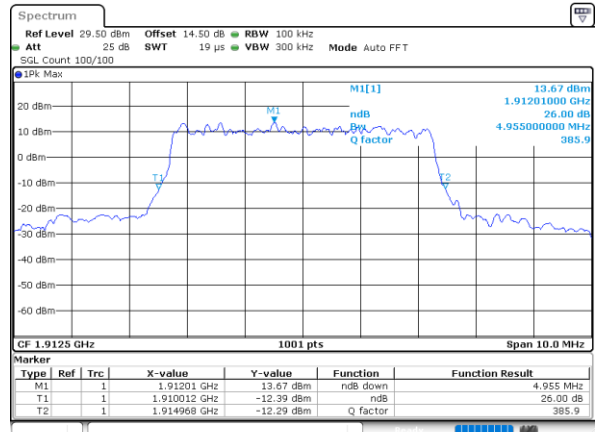
Date: 11.AUG.2021 21:35:11

Highest Channel / 5MHz / QPSK



Date: 11.AUG.2021 21:36:05

Highest Channel / 5MHz / 16QAM

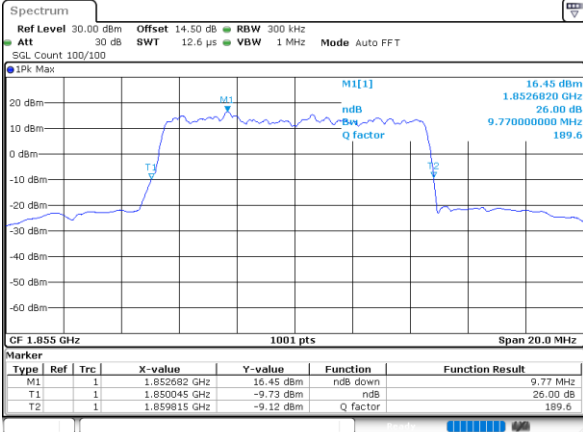


Date: 11.AUG.2021 21:37:01



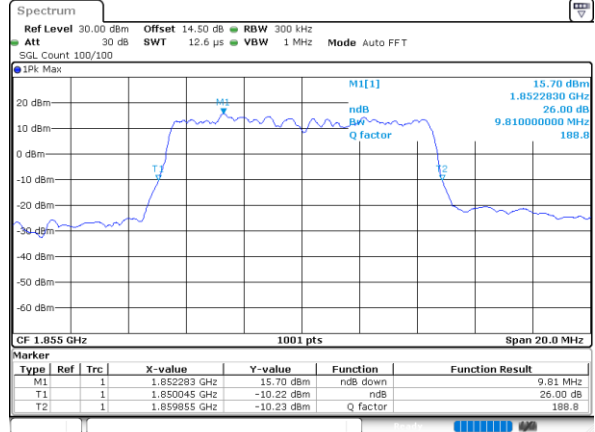
LTE Band 25

Lowest Channel / 10MHz / QPSK



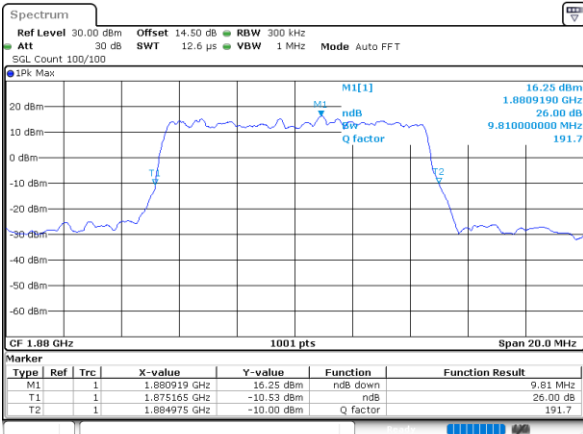
Date: 12.AUG.2021 00:20:35

Lowest Channel / 10MHz / 16QAM



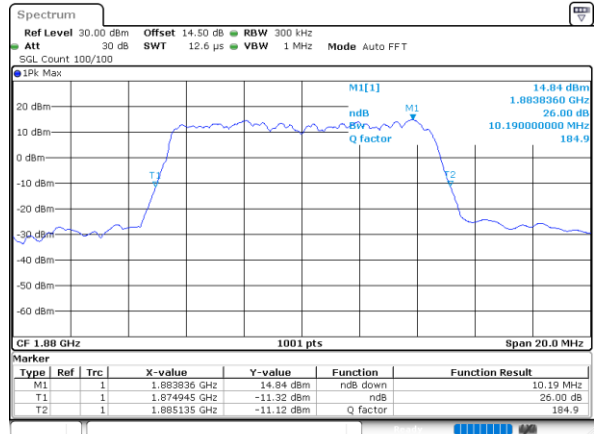
Date: 12.AUG.2021 00:20:19

Middle Channel / 10MHz / QPSK



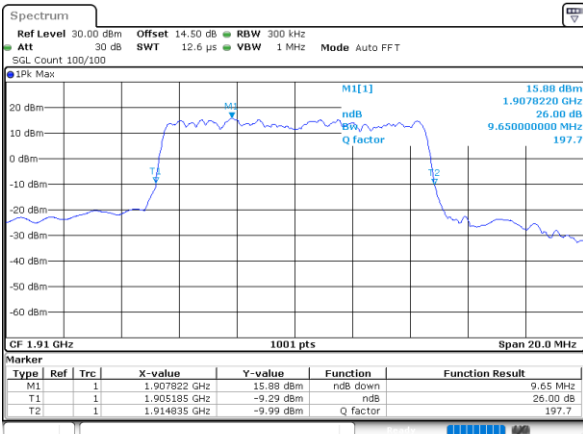
Date: 12.AUG.2021 00:19:05

Middle Channel / 10MHz / 16QAM



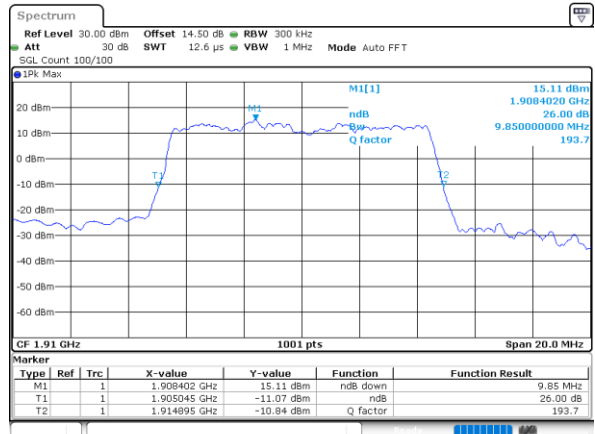
Date: 12.AUG.2021 00:19:21

Highest Channel / 10MHz / QPSK



Date: 12.AUG.2021 00:20:55

Highest Channel / 10MHz / 16QAM

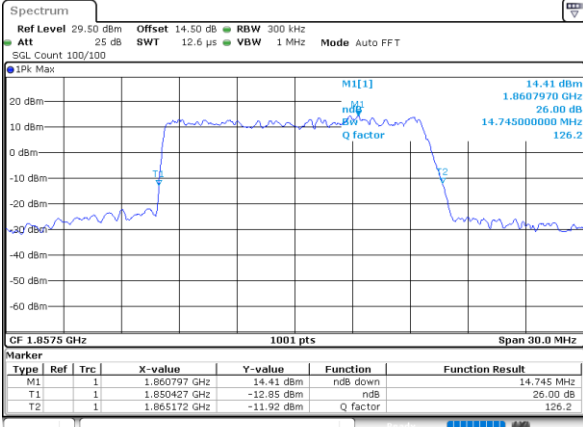


Date: 12.AUG.2021 00:21:05



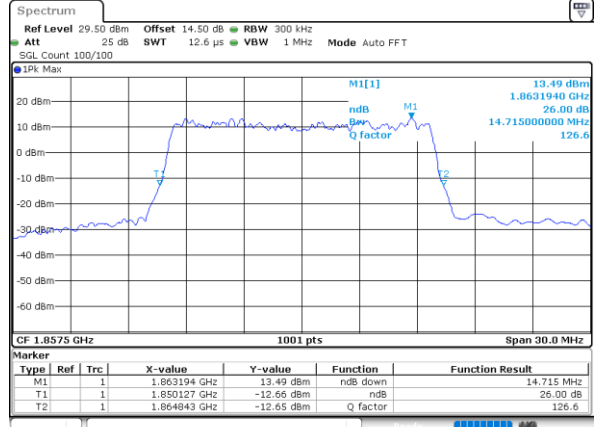
LTE Band 25

Lowest Channel / 15MHz / QPSK



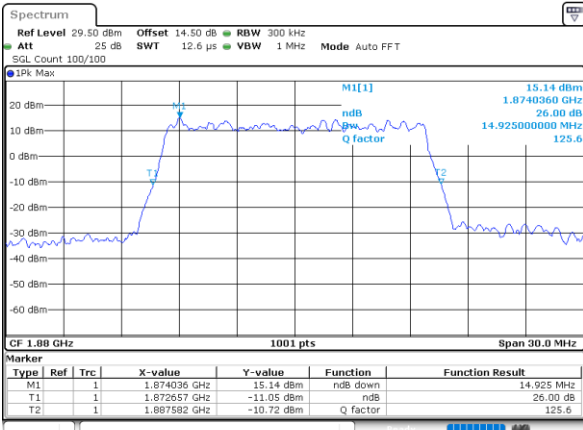
Date: 12\_AUG.2021 00:22:58

Lowest Channel / 15MHz / 16QAM



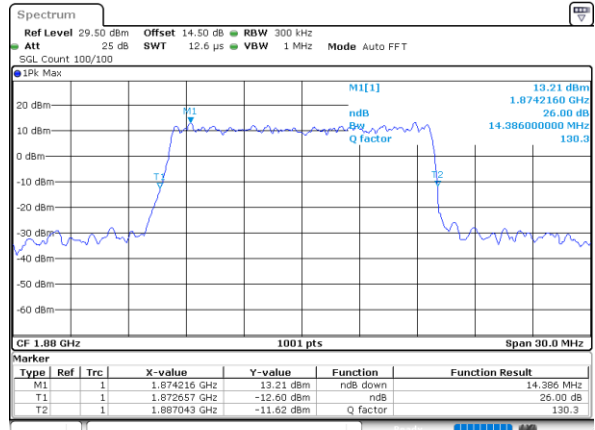
Date: 12\_AUG.2021 00:23:14

Middle Channel / 15MHz / QPSK



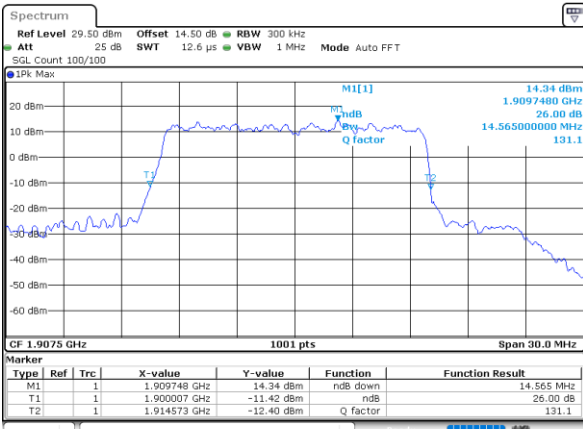
Date: 12\_AUG.2021 00:22:31

Middle Channel / 15MHz / 16QAM



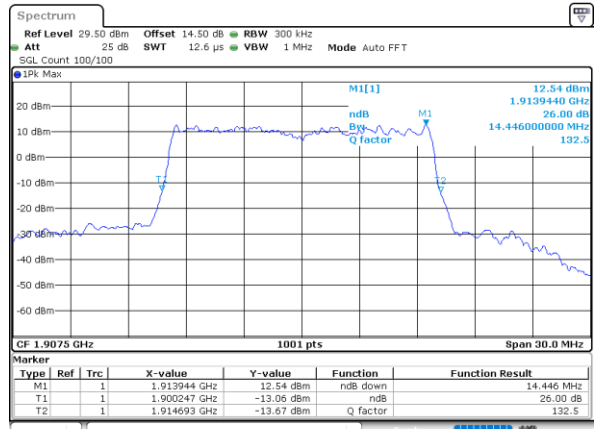
Date: 12\_AUG.2021 00:22:16

Highest Channel / 15MHz / QPSK



Date: 12\_AUG.2021 00:24:31

Highest Channel / 15MHz / 16QAM

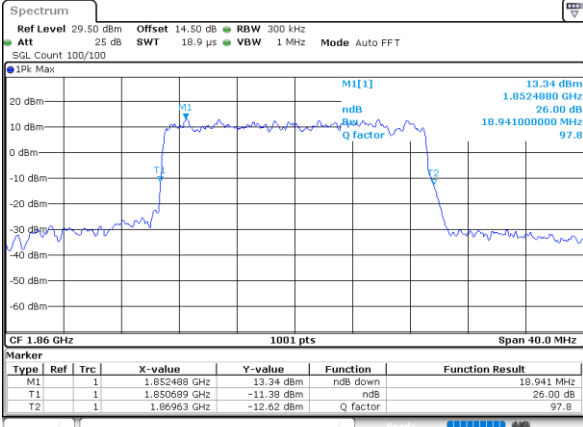


Date: 12\_AUG.2021 00:24:13



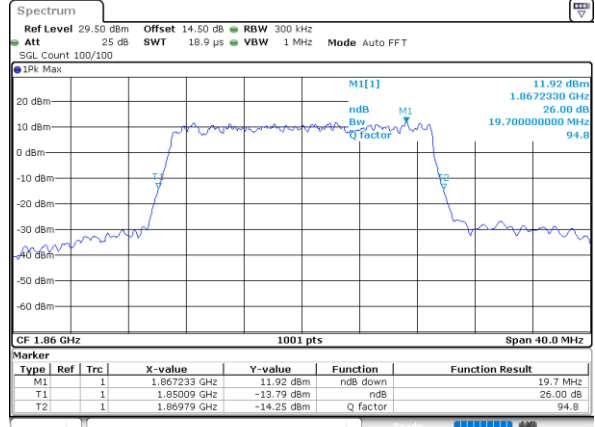
LTE Band 25

Lowest Channel / 20MHz / QPSK



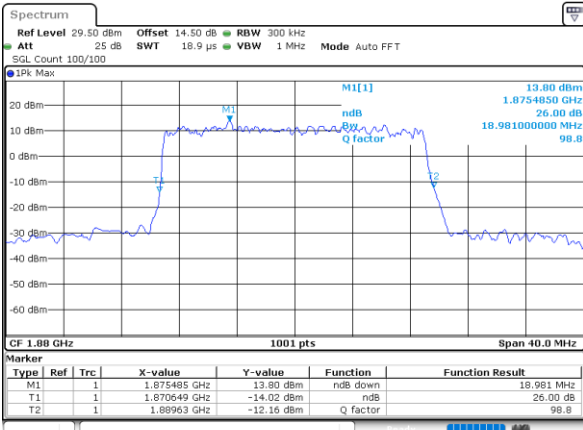
Date: 12\_AUG.2021 00:26:31

Lowest Channel / 20MHz / 16QAM



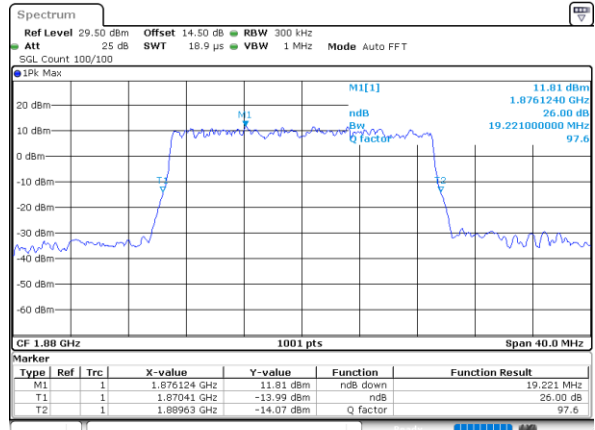
Date: 12\_AUG.2021 00:26:15

Middle Channel / 20MHz / QPSK



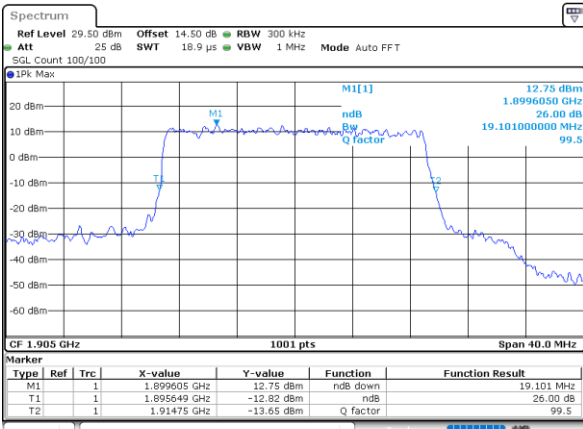
Date: 12\_AUG.2021 00:24:59

Middle Channel / 20MHz / 16QAM



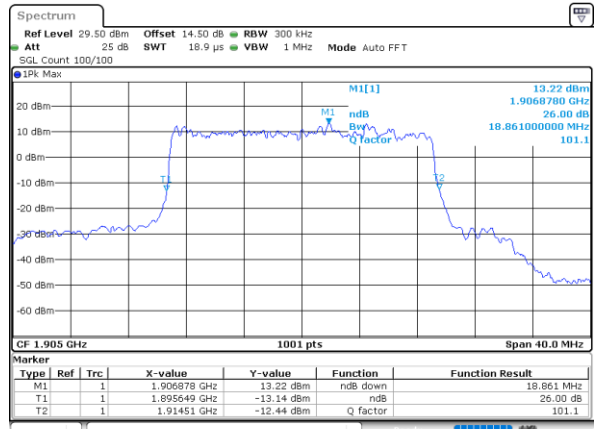
Date: 12\_AUG.2021 00:25:17

Highest Channel / 20MHz / QPSK



Date: 12\_AUG.2021 00:26:54

Highest Channel / 20MHz / 16QAM

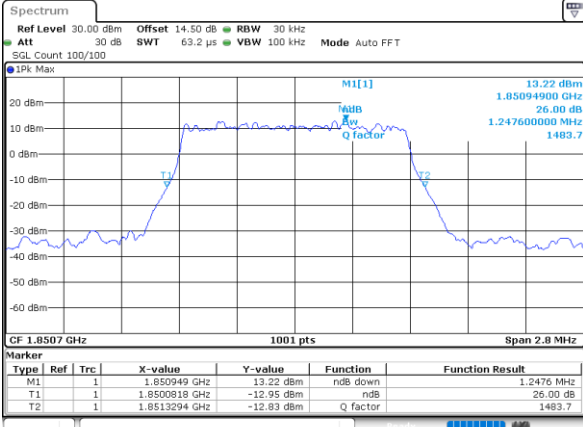


Date: 12\_AUG.2021 00:27:10



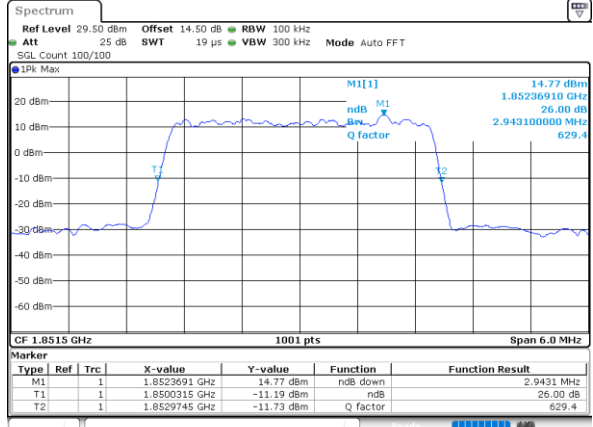
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



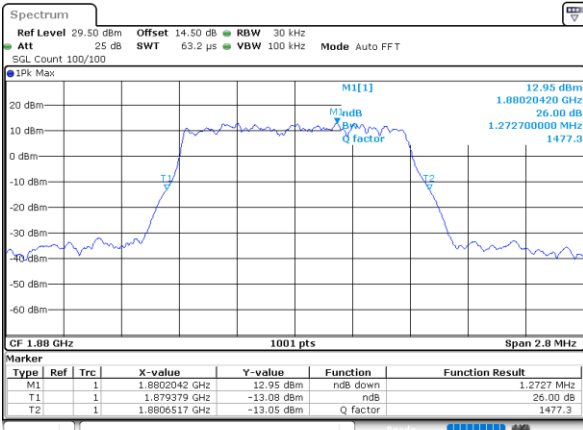
Date: 11.AUG.2021 19:41:39

Lowest Channel / 3MHz / 64QAM



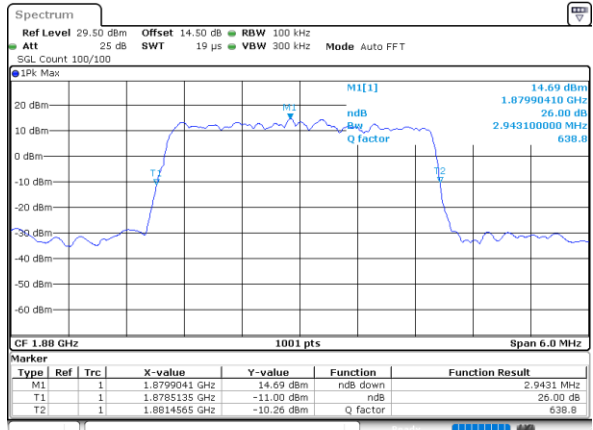
Date: 11.AUG.2021 20:33:03

Middle Channel / 1.4MHz / 64QAM



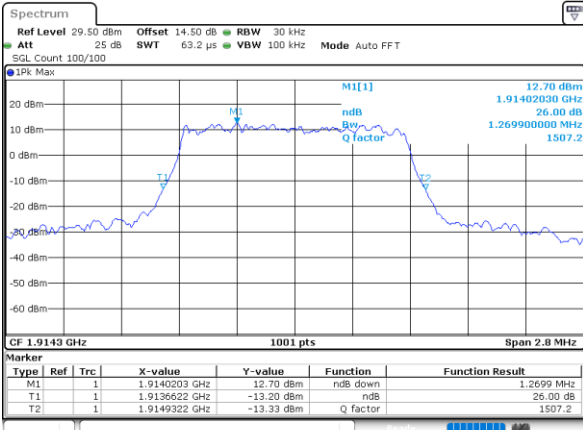
Date: 11.AUG.2021 20:07:09

Middle Channel / 3MHz / 64QAM



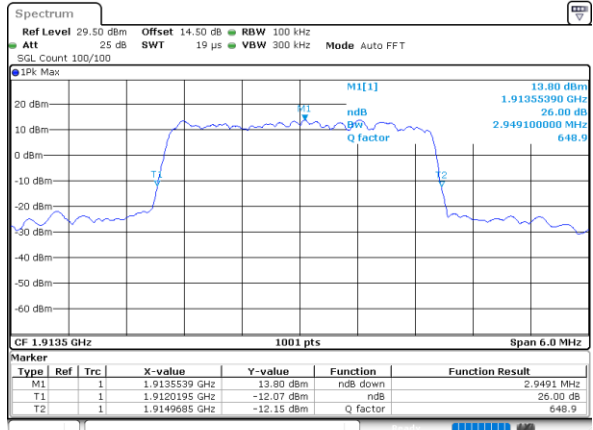
Date: 11.AUG.2021 21:07:54

Highest Channel / 1.4MHz / 64QAM



Date: 11.AUG.2021 20:13:09

Highest Channel / 3MHz / 64QAM

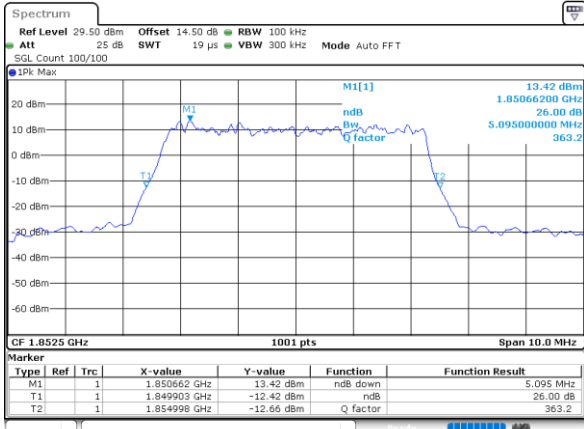


Date: 11.AUG.2021 21:11:53



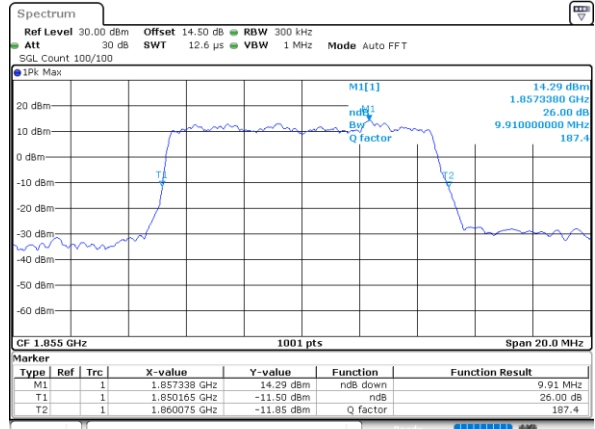
LTE Band 25

Lowest Channel / 5MHz / 64QAM



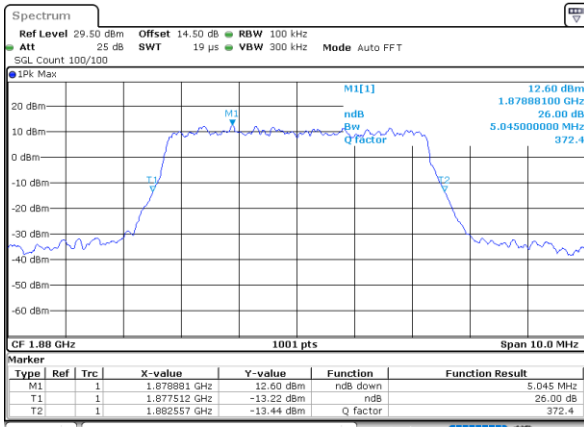
Date: 11.AUG.2021 21:21:49

Lowest Channel / 10MHz / 64QAM



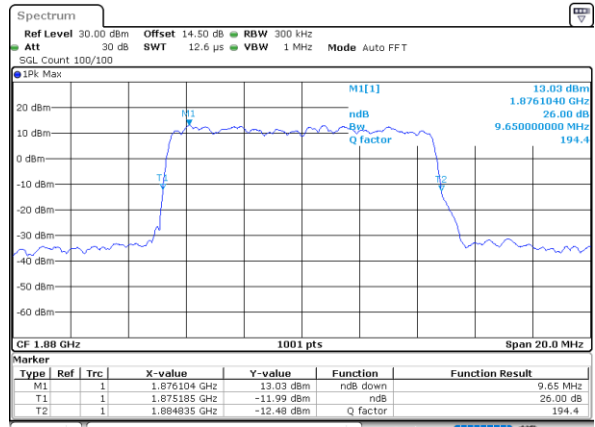
Date: 12.AUG.2021 00:12:02

Middle Channel / 5MHz / 64QAM



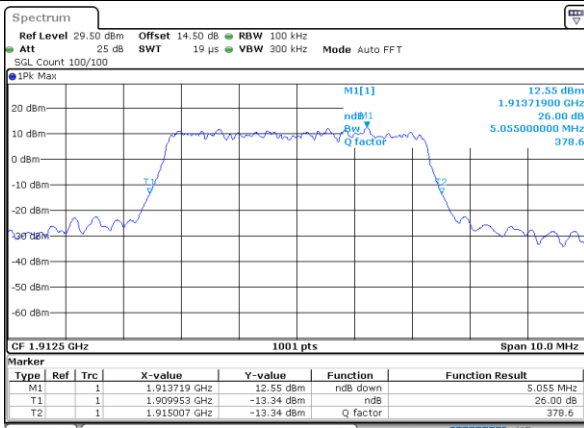
Date: 11.AUG.2021 21:35:00

Middle Channel / 10MHz / 64QAM



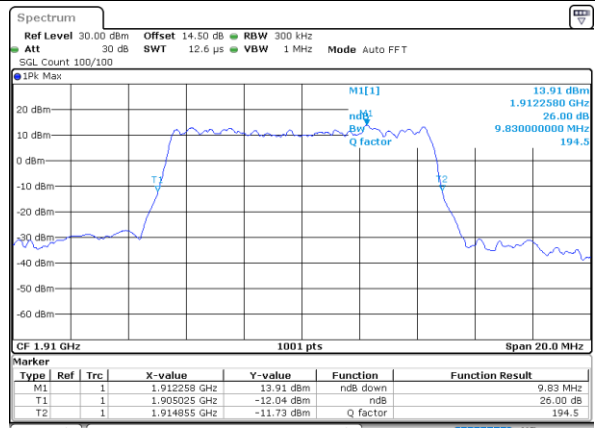
Date: 12.AUG.2021 00:19:37

Highest Channel / 5MHz / 64QAM



Date: 11.AUG.2021 21:38:40

Highest Channel / 10MHz / 64QAM

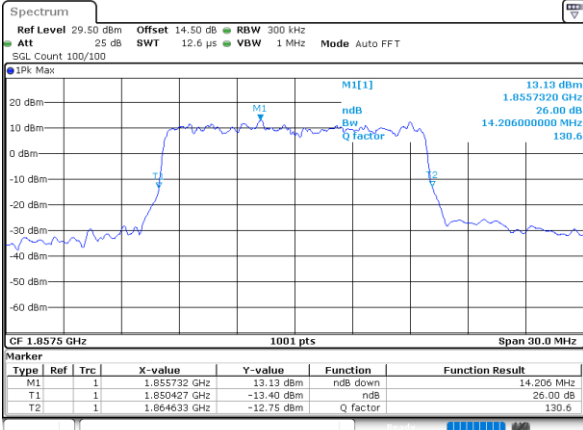


Date: 12.AUG.2021 00:21:29

LTE Band 25

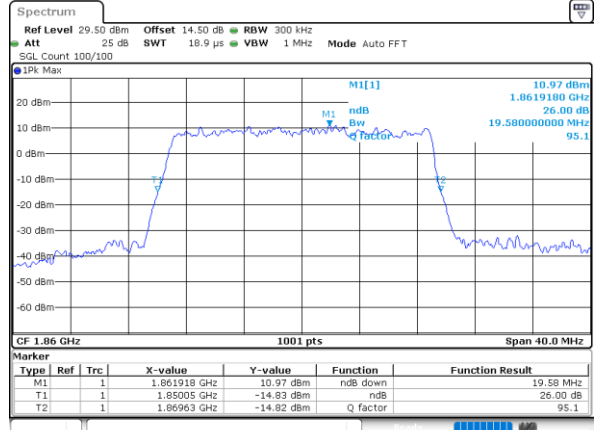


Lowest Channel / 15MHz / 64QAM



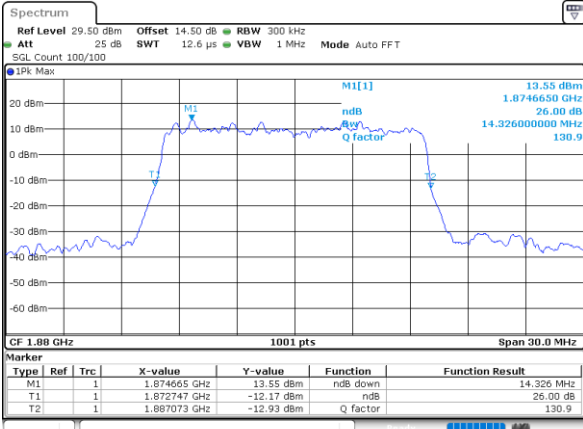
Date: 12.AUG.2021 00:23:30

Lowest Channel / 20MHz / 64QAM



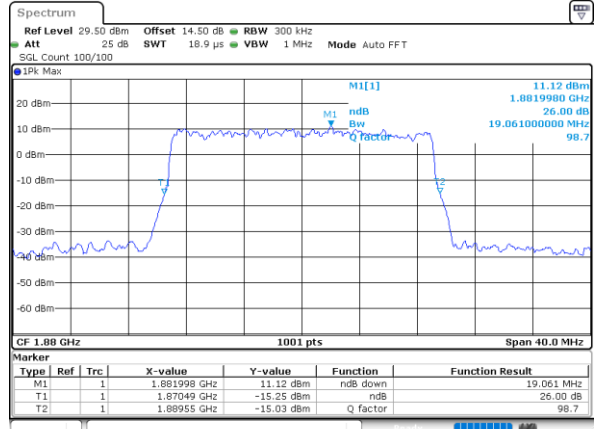
Date: 12.AUG.2021 00:25:55

Middle Channel / 15MHz / 64QAM



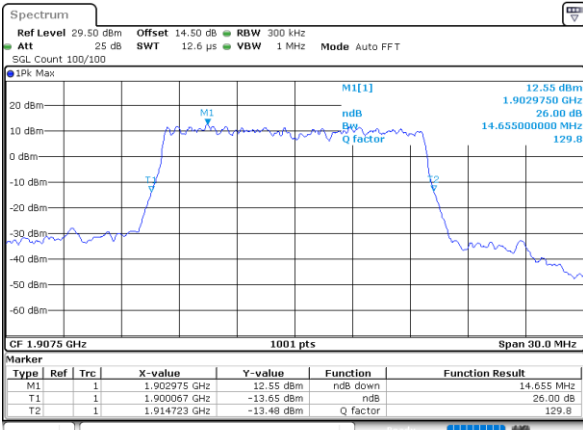
Date: 12.AUG.2021 00:22:00

Middle Channel / 20MHz / 64QAM



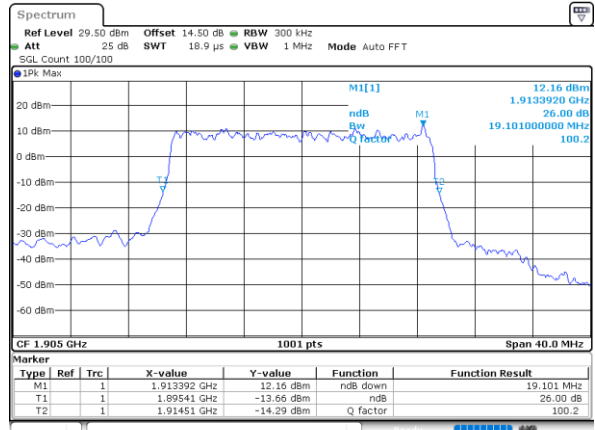
Date: 12.AUG.2021 00:25:32

Highest Channel / 15MHz / 64QAM



Date: 12.AUG.2021 00:23:57

Highest Channel / 20MHz / 64QAM



Date: 12.AUG.2021 00:27:26





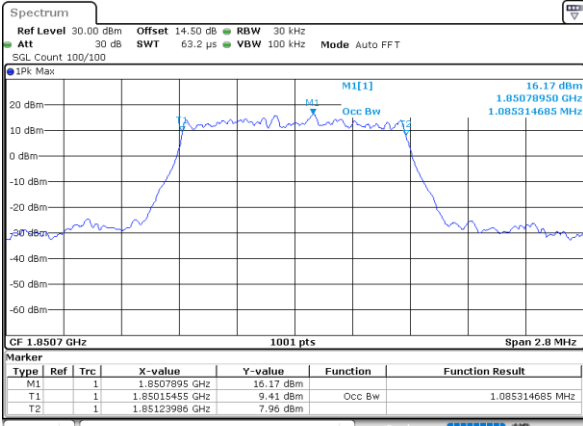
Occupied Bandwidth

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	2.69	2.71	4.48	4.53	9.07	8.99	13.49	13.52	17.86	17.82
Middle CH	1.09	1.09	2.70	2.70	4.49	4.51	9.07	9.07	13.49	13.43	17.90	17.90
Highest CH	1.09	1.09	2.71	2.71	4.52	4.48	9.05	9.03	13.49	13.37	17.86	17.94
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10	-	2.70	-	4.51	-	9.03	-	13.49	-	17.82	-
Middle CH	1.09	-	2.71	-	4.51	-	9.11	-	13.49	-	17.90	-
Highest CH	1.10	-	2.71	-	4.49	-	9.01	-	13.37	-	17.90	-

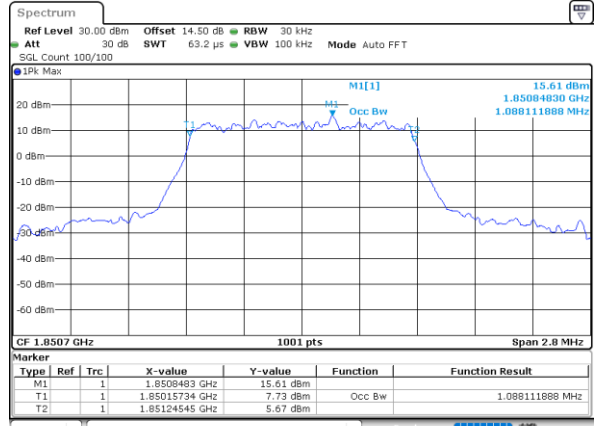


LTE Band 25

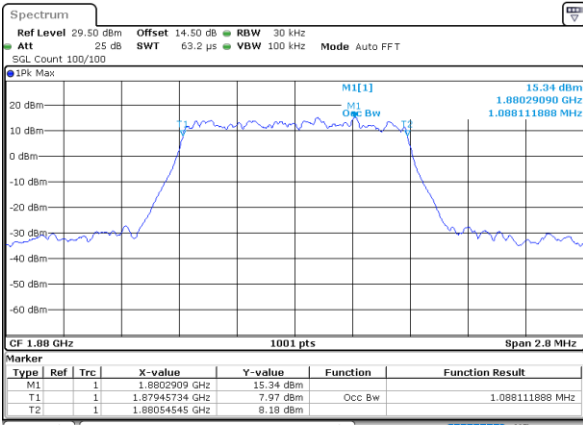
Lowest Channel / 1.4MHz / QPSK



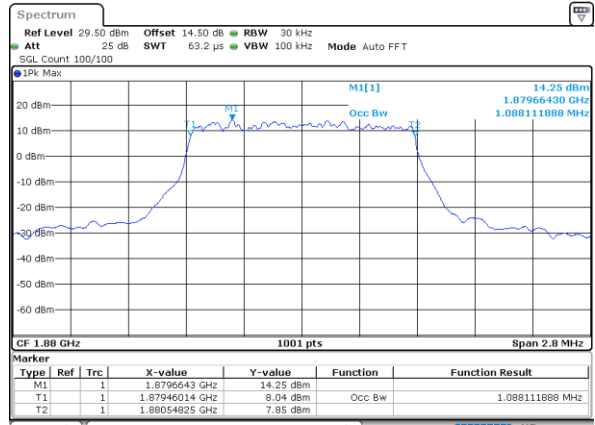
Lowest Channel / 1.4MHz / 16QAM



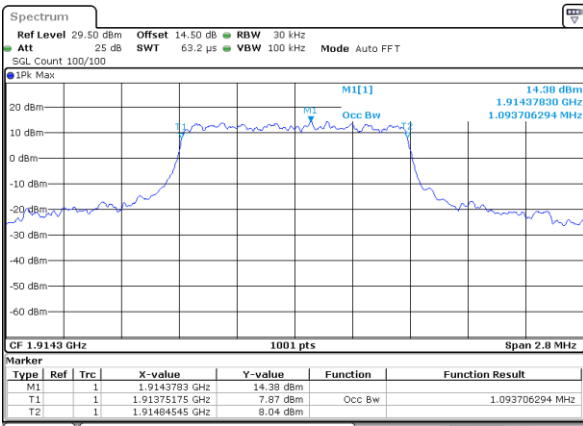
Middle Channel / 1.4MHz / QPSK



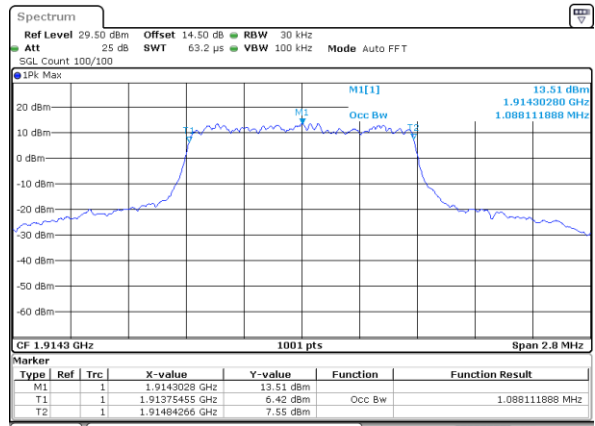
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



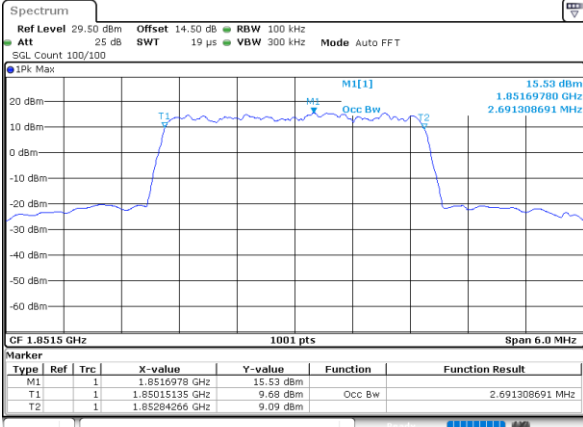
Highest Channel / 1.4MHz / 16QAM





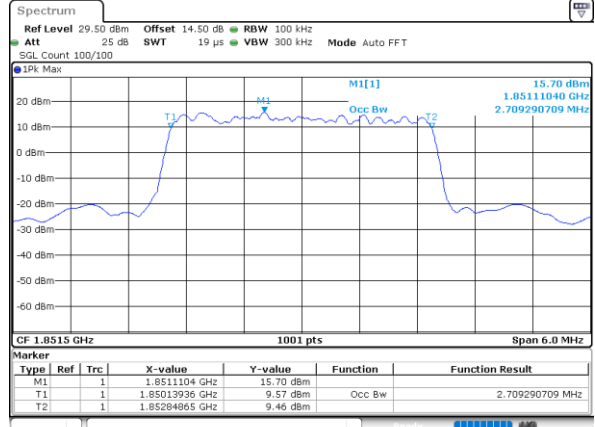
LTE Band 25

Lowest Channel / 3MHz / QPSK



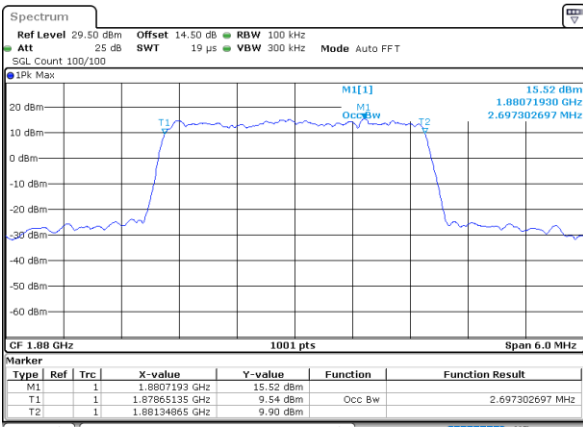
Date: 11.AUG.2021 20:36:00

Lowest Channel / 3MHz / 16QAM



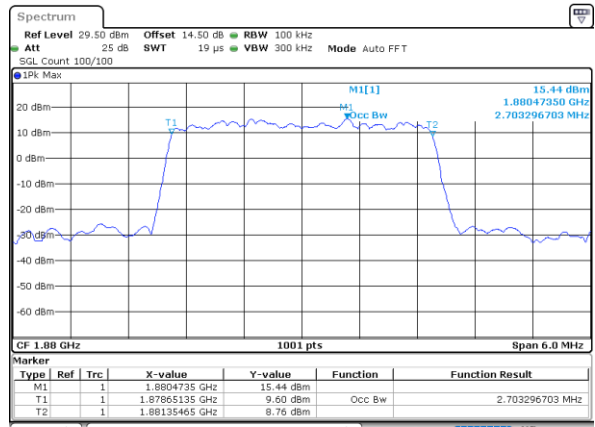
Date: 11.AUG.2021 20:35:04

Middle Channel / 3MHz / QPSK



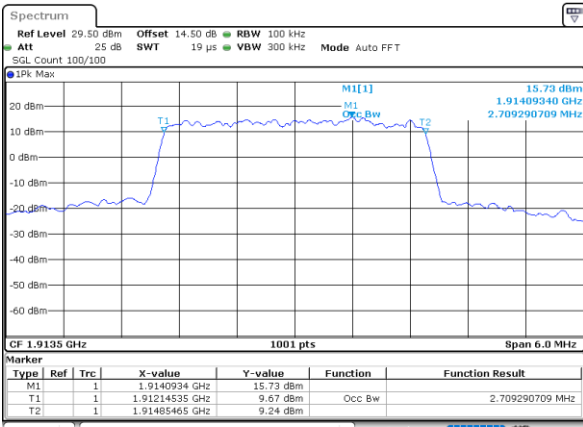
Date: 11.AUG.2021 21:08:52

Middle Channel / 3MHz / 16QAM



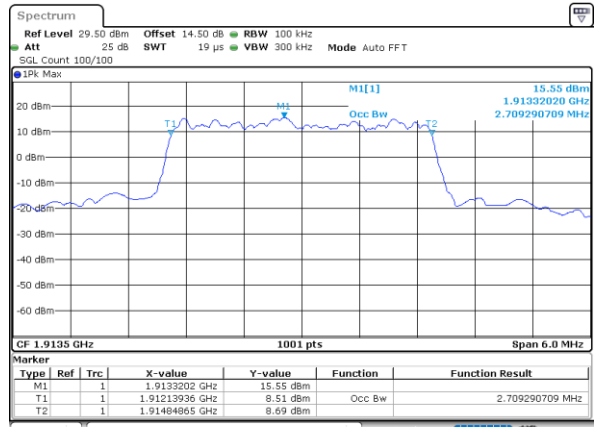
Date: 11.AUG.2021 21:08:25

Highest Channel / 3MHz / QPSK



Date: 11.AUG.2021 21:09:44

Highest Channel / 3MHz / 16QAM

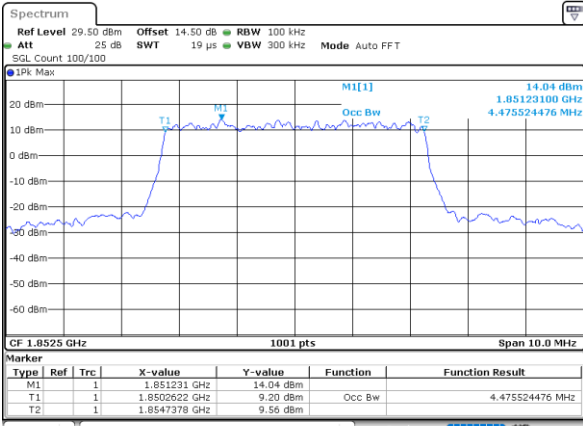


Date: 11.AUG.2021 21:10:51



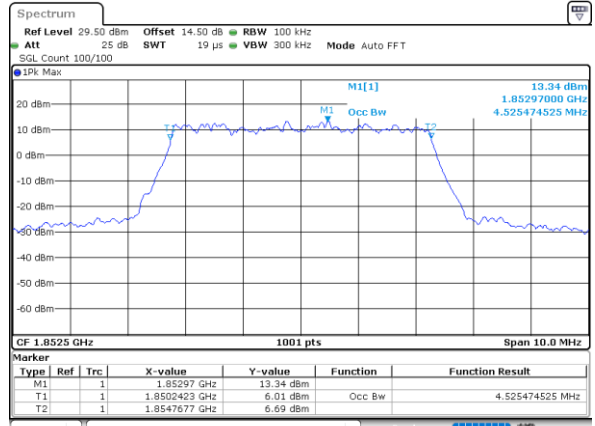
LTE Band 25

Lowest Channel / 5MHz / QPSK



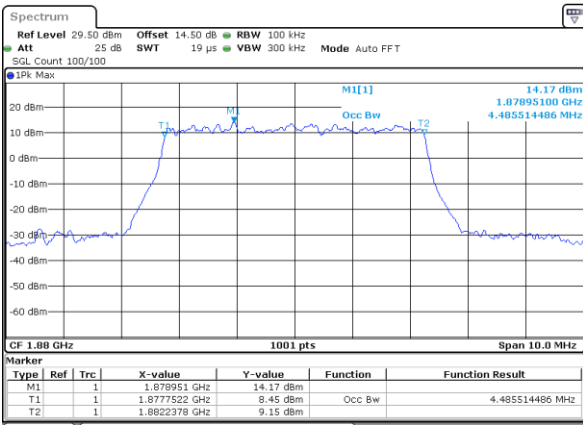
Date: 11.AUG.2021 21:23:34

Lowest Channel / 5MHz / 16QAM



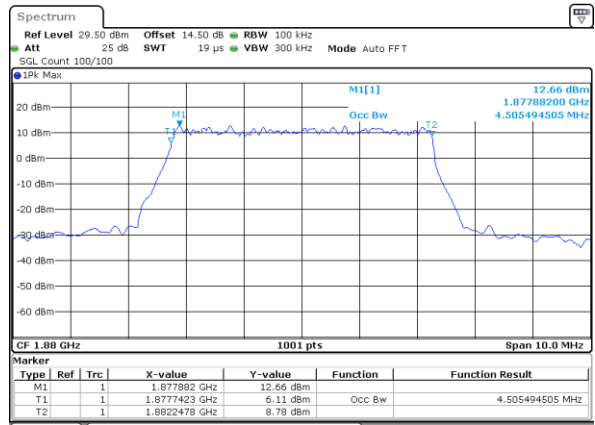
Date: 11.AUG.2021 21:22:37

Middle Channel / 5MHz / QPSK



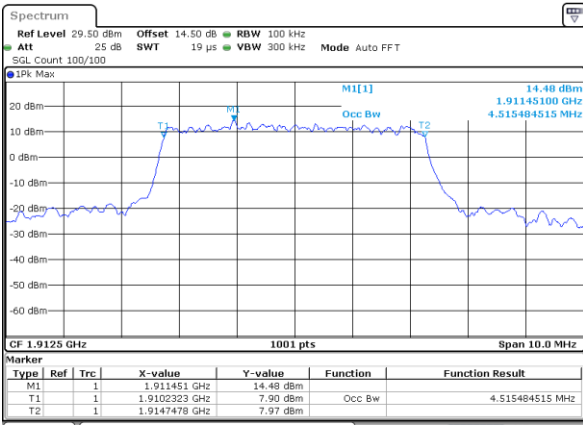
Date: 11.AUG.2021 21:35:27

Middle Channel / 5MHz / 16QAM



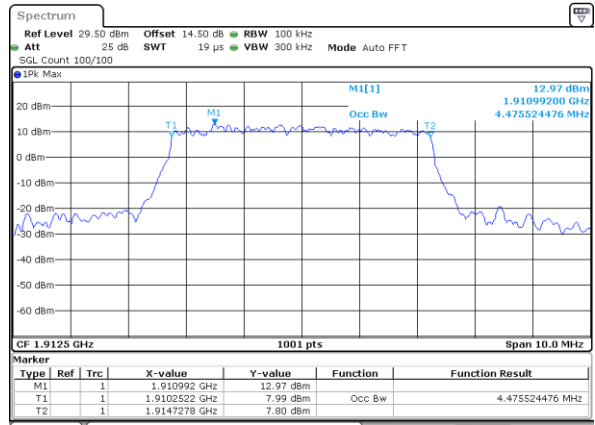
Date: 11.AUG.2021 21:35:17

Highest Channel / 5MHz / QPSK



Date: 11.AUG.2021 21:36:00

Highest Channel / 5MHz / 16QAM



Date: 11.AUG.2021 21:36:55