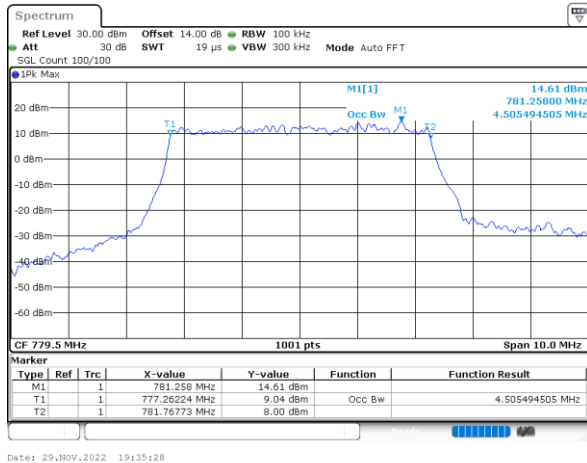


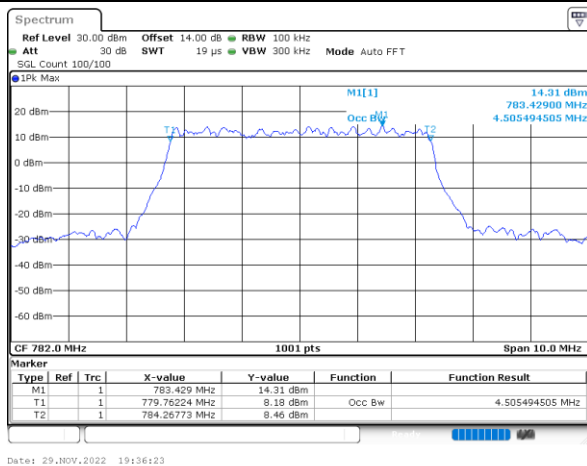


LTE Band 13

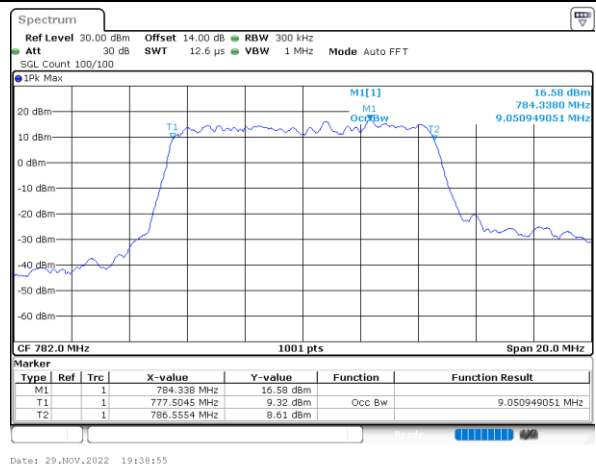
Lowest Channel / 5MHz / 64QAM



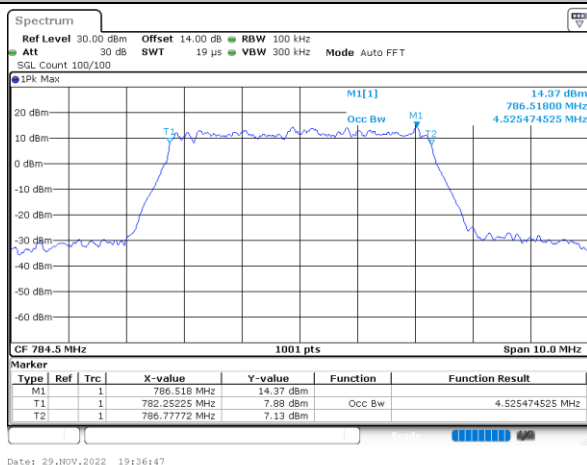
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

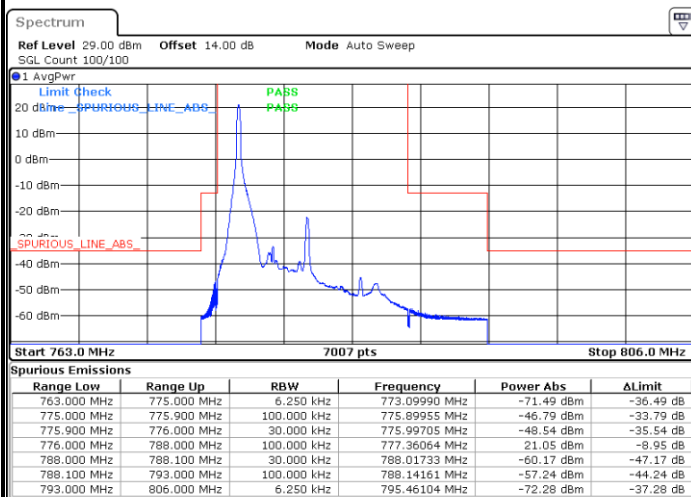




Conducted Band Edge

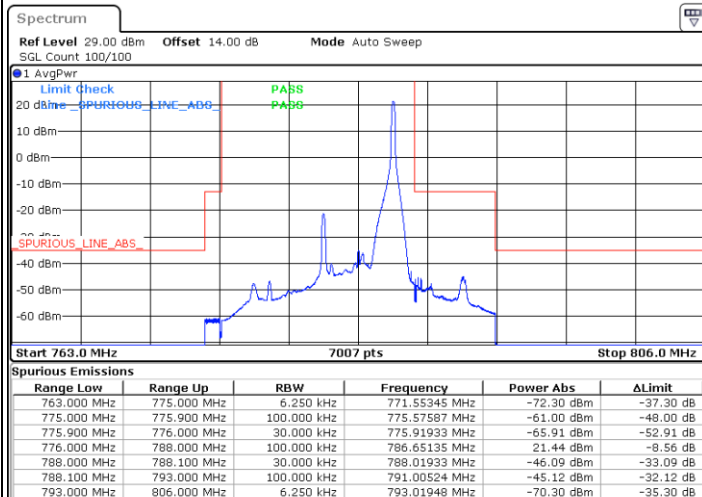
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



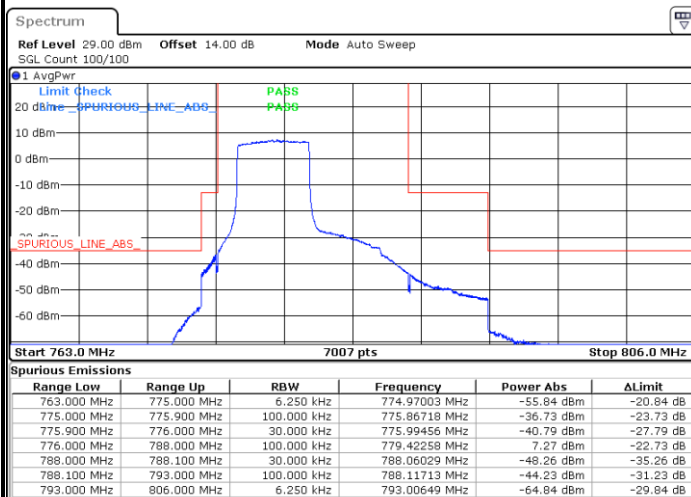
Date: 29.NOV.2022 13:38:24

Highest Band Edge / 1 RB



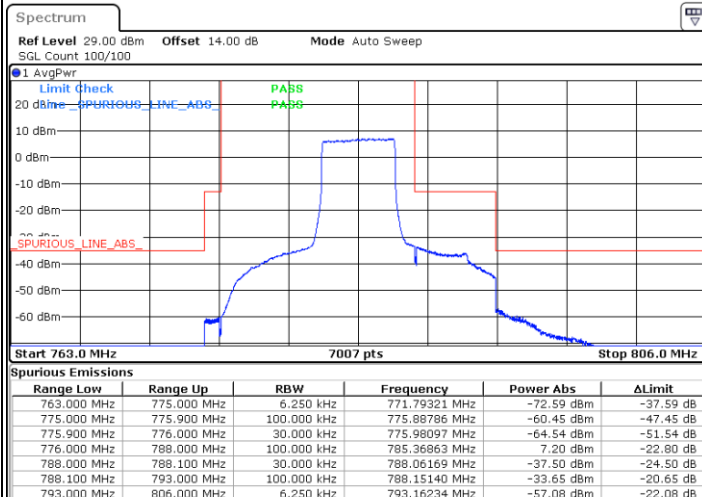
Date: 29.NOV.2022 13:42:09

Lowest Band Edge / Full RB



Date: 29.NOV.2022 13:36:30

Highest Band Edge / Full RB

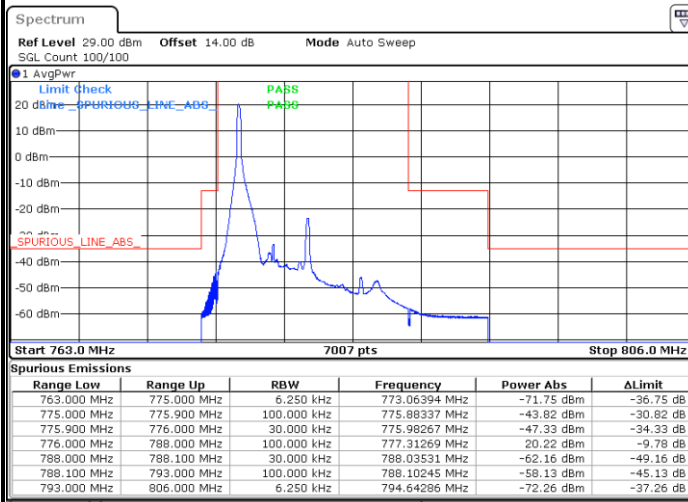


Date: 29.NOV.2022 13:40:16



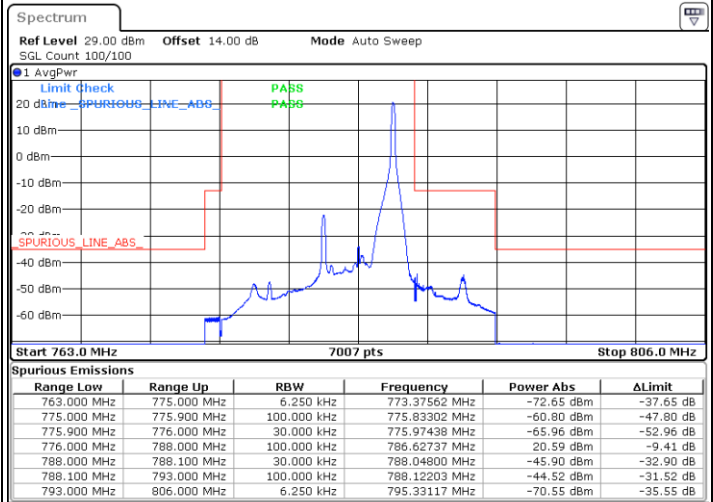
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



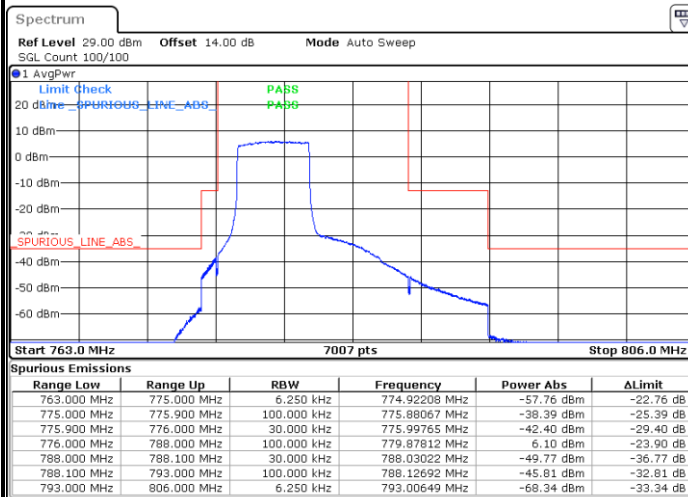
Date: 29.NOV.2022 13:45:55

Highest Band Edge / 1 RB



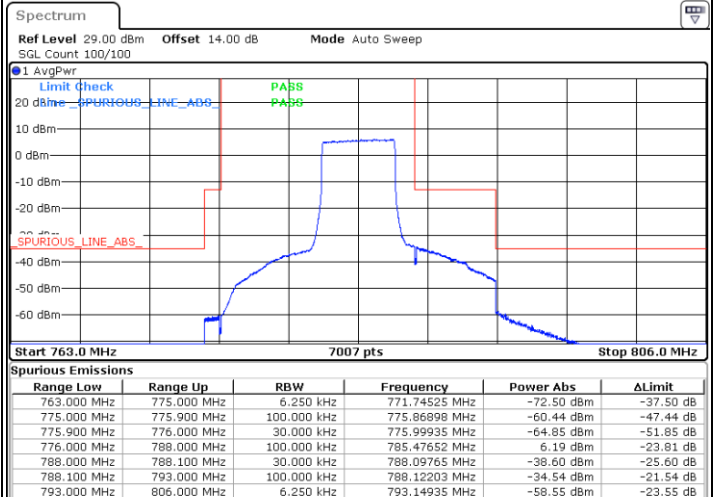
Date: 29.NOV.2022 13:49:41

Lowest Band Edge / Full RB



Date: 29.NOV.2022 13:44:02

Highest Band Edge / Full RB

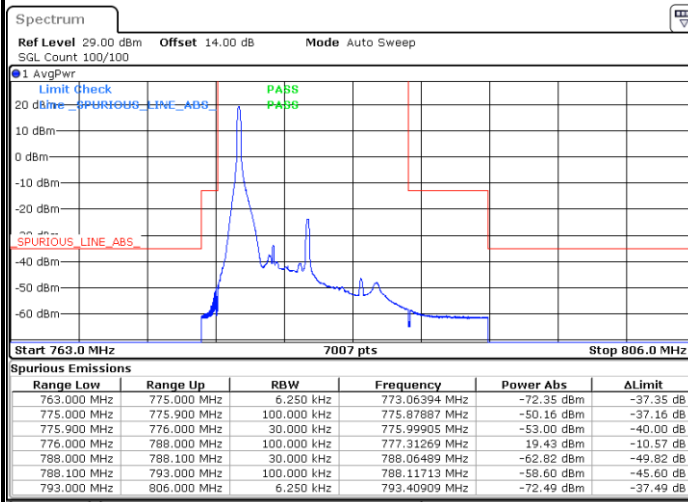


Date: 29.NOV.2022 13:47:48

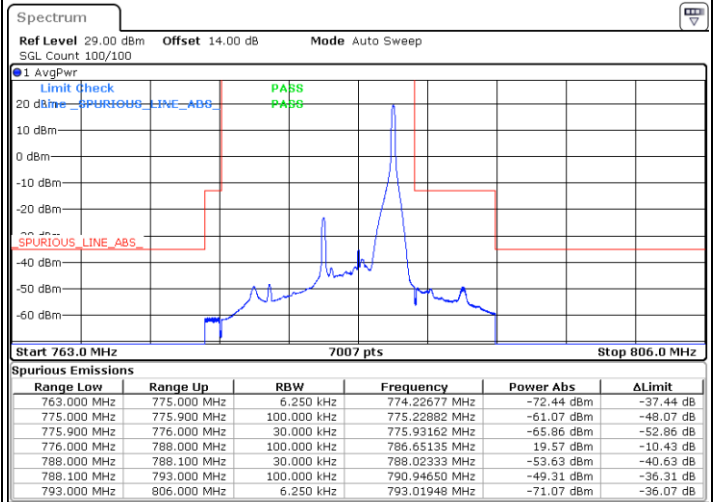


LTE Band 13 / 5MHz / 64QAM

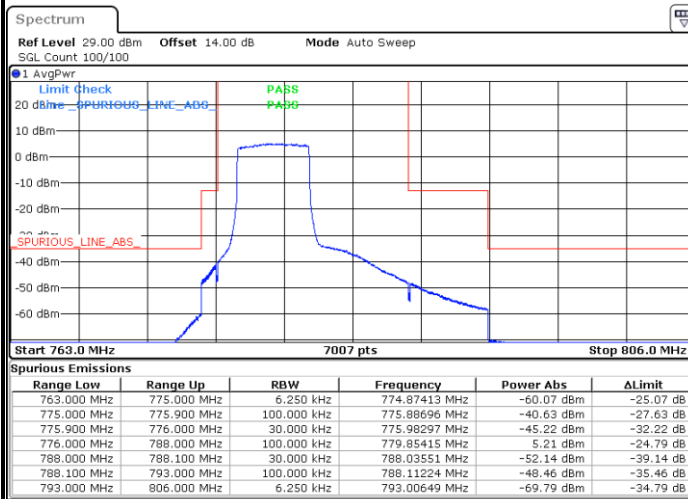
Lowest Band Edge / 1 RB



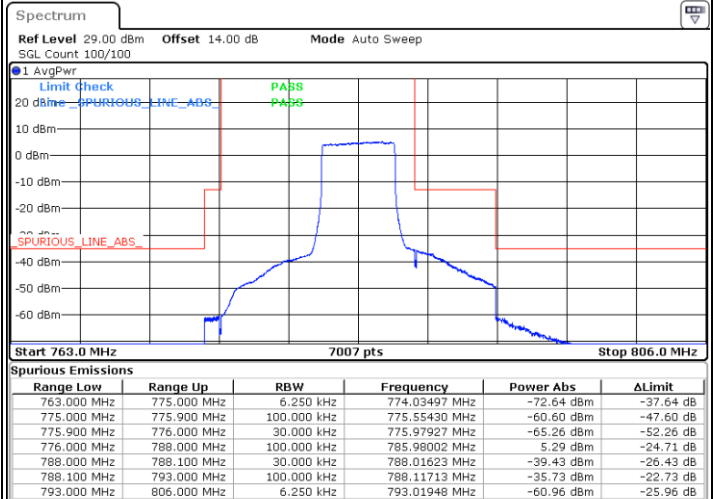
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



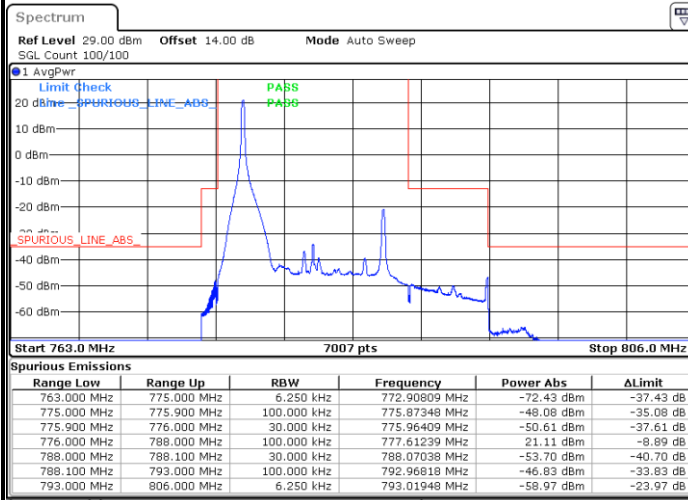
Highest Band Edge / Full RB





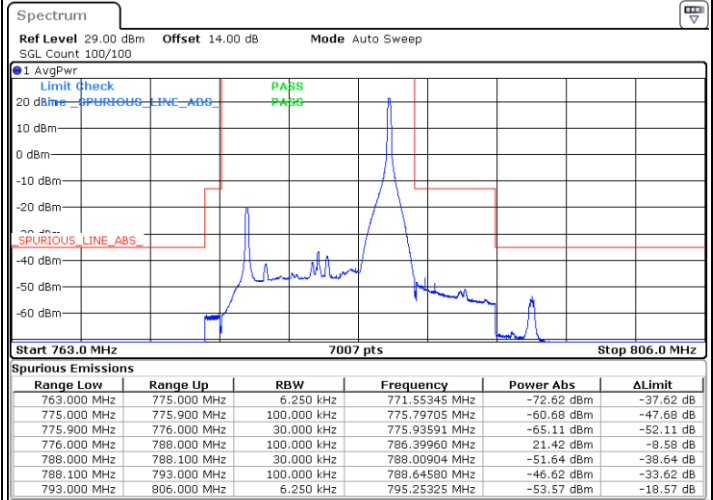
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



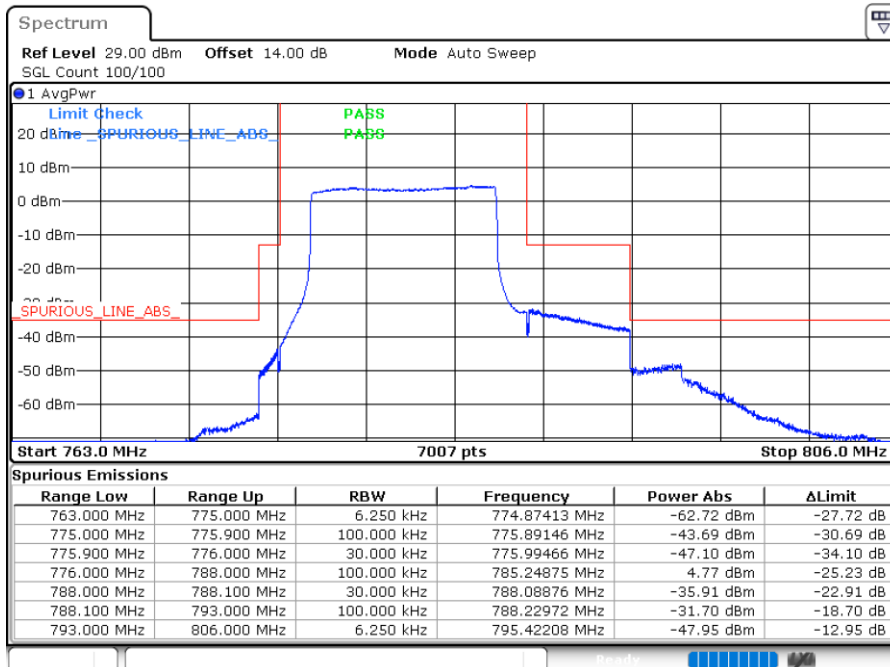
Date: 29.NOV.2022 14:01:00

Highest Band Edge / 1 RB



Date: 29.NOV.2022 14:02:52

Band Edge / Full RB

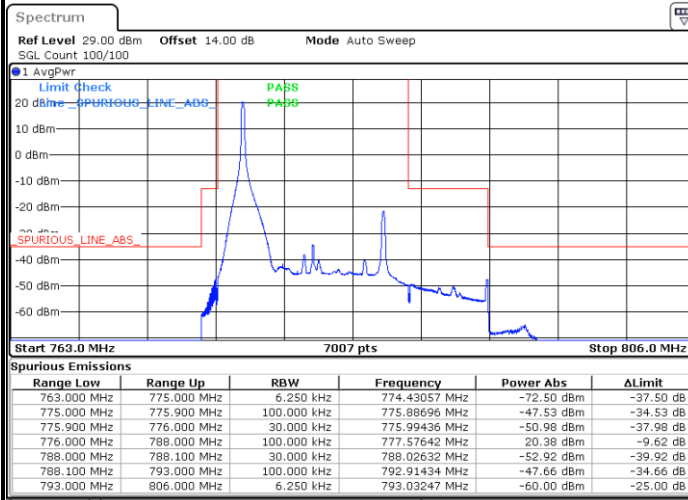


Date: 29.NOV.2022 13:59:07



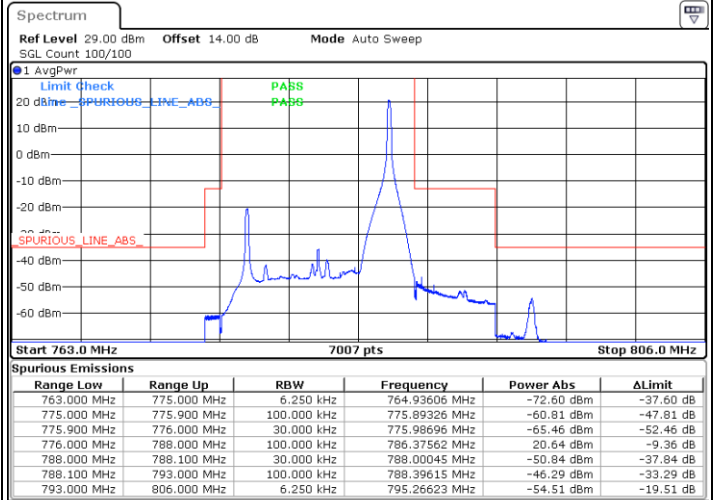
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



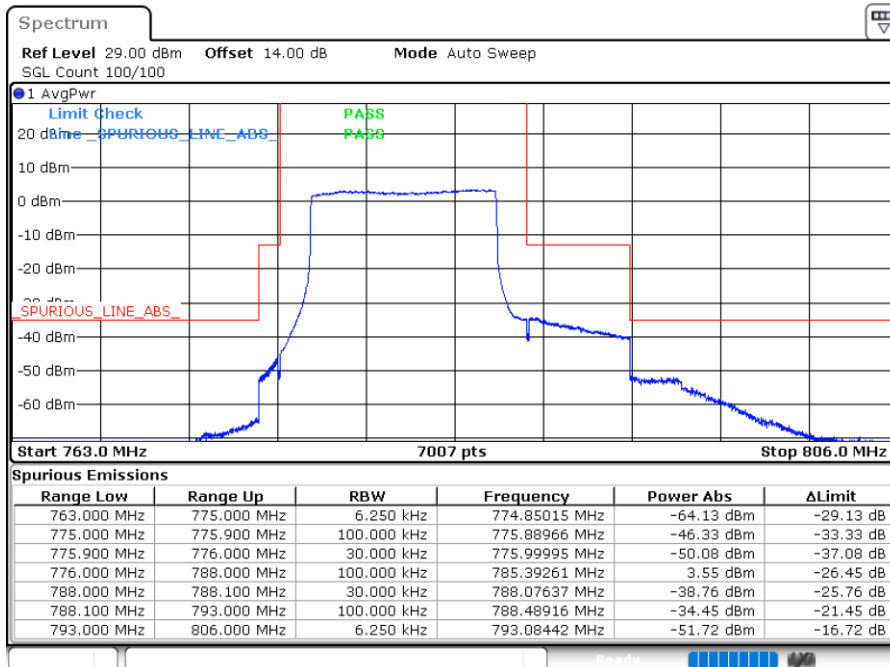
Date: 29.NOV.2022 14:06:37

Highest Band Edge / 1 RB



Date: 29.NOV.2022 14:08:30

Band Edge / Full RB

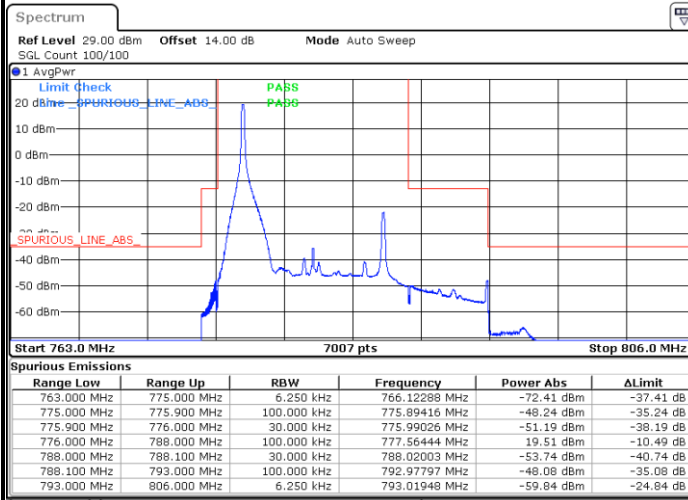


Date: 29.NOV.2022 14:04:44



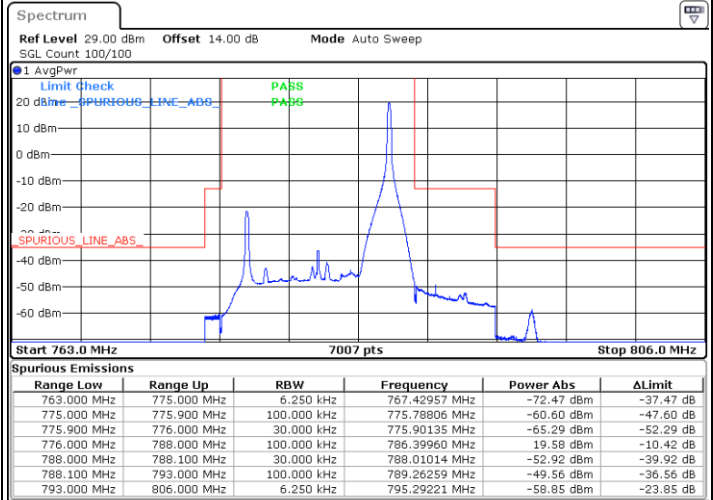
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



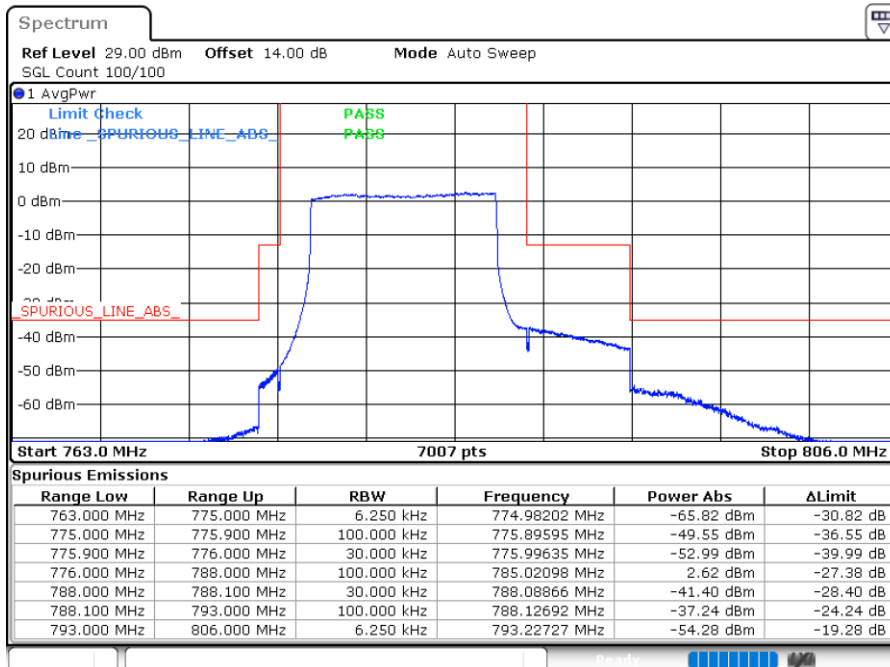
Date: 29.NOV.2022 14:12:14

Highest Band Edge / 1 RB



Date: 29.NOV.2022 14:14:07

Band Edge / Full RB



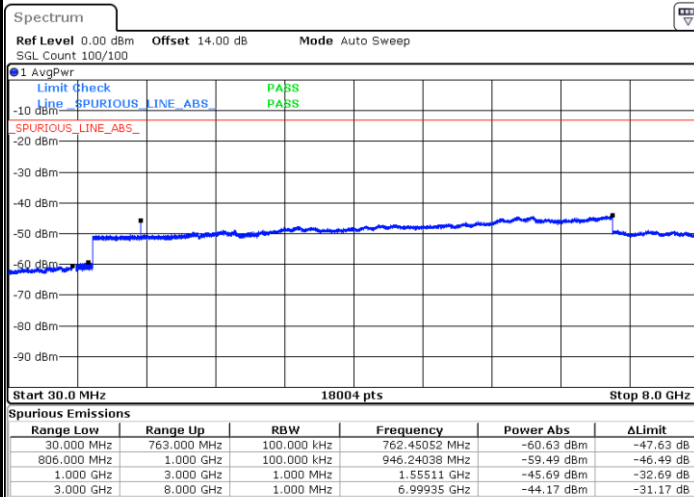
Date: 29.NOV.2022 14:10:22



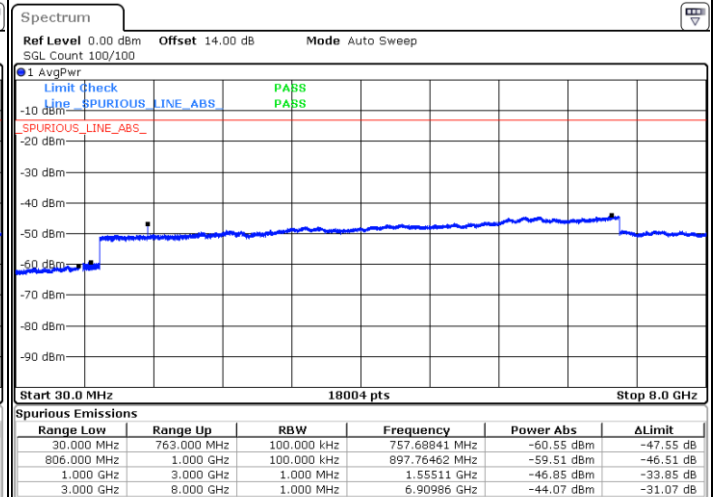
Conducted Spurious Emission

LTE Band 13 / 5MHz

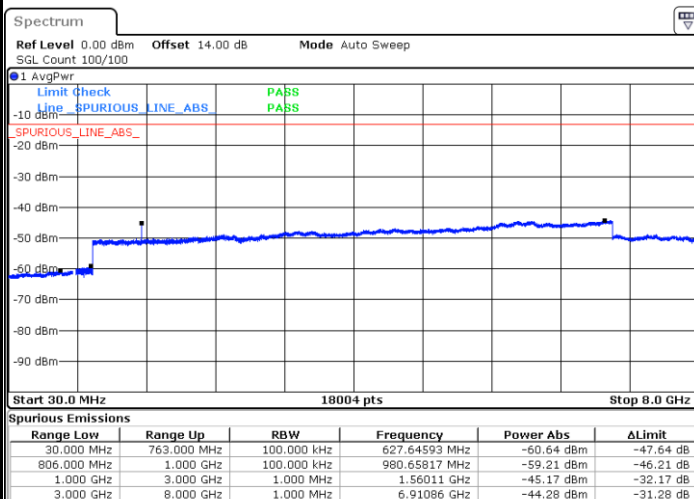
Lowest Channel / QPSK



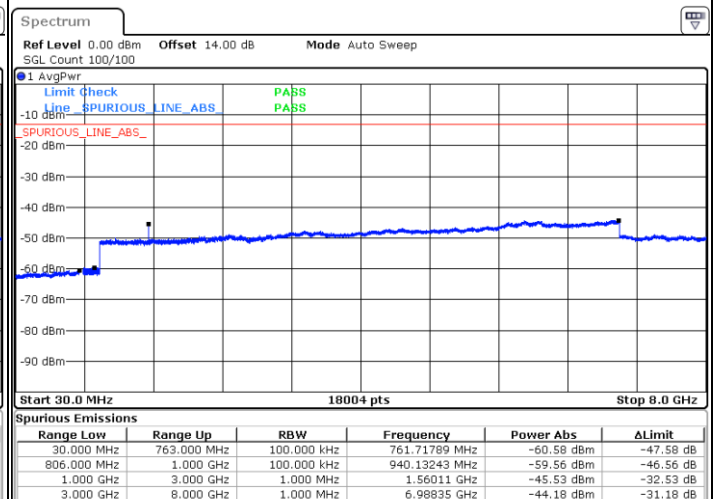
Lowest Channel / 16QAM



Middle Channel / QPSK



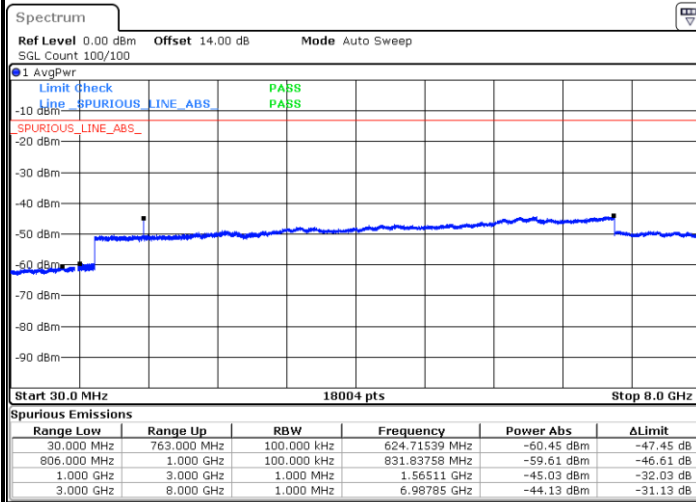
Middle Channel / 16QAM





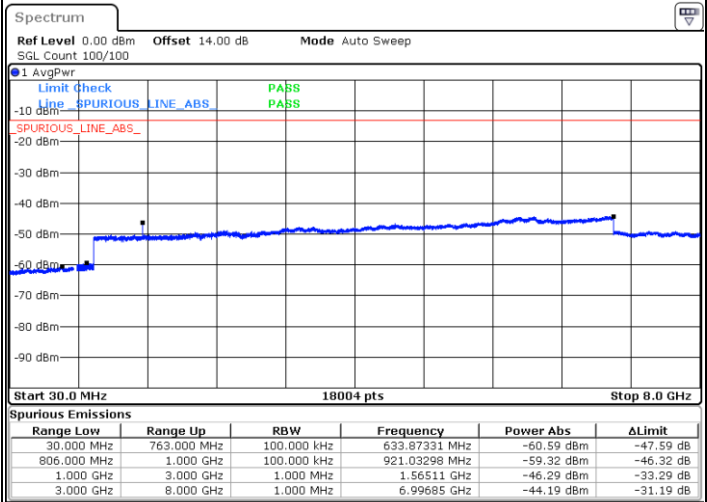
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 29.NOV.2022 14:16:42

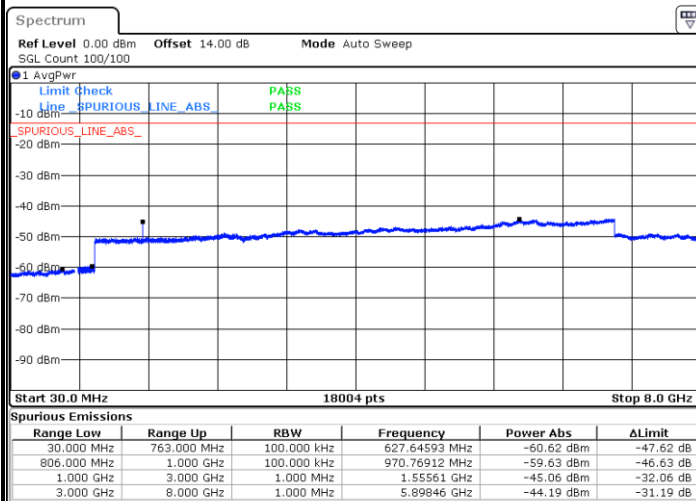
Highest Channel / 16QAM



Date: 29.NOV.2022 14:18:34

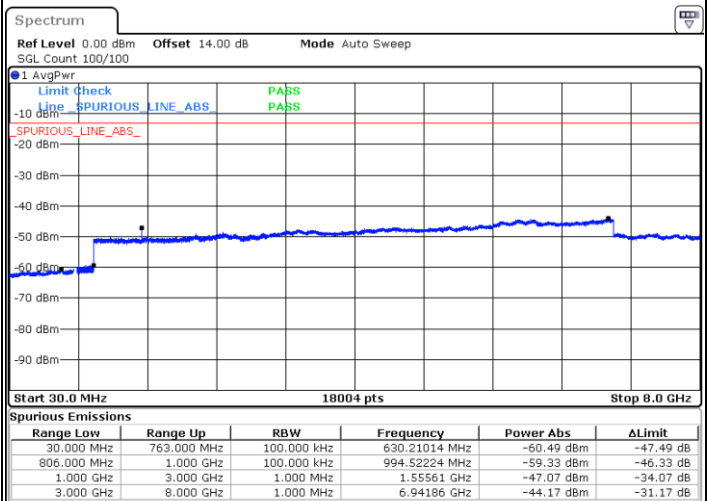
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 29.NOV.2022 14:21:05

Middle Channel / 16QAM

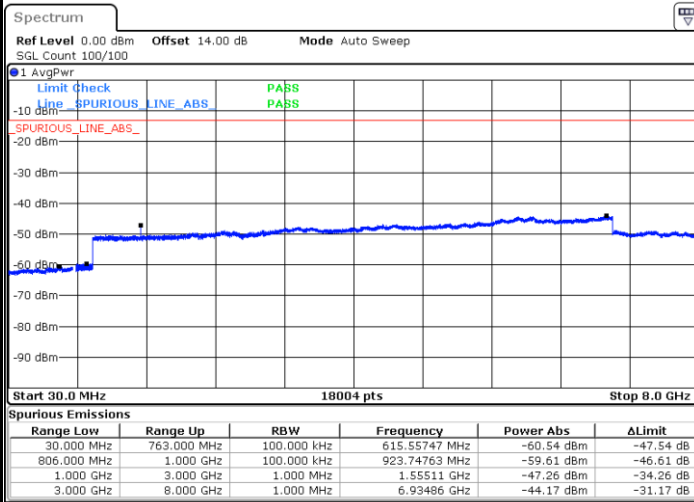


Date: 29.NOV.2022 14:21:42



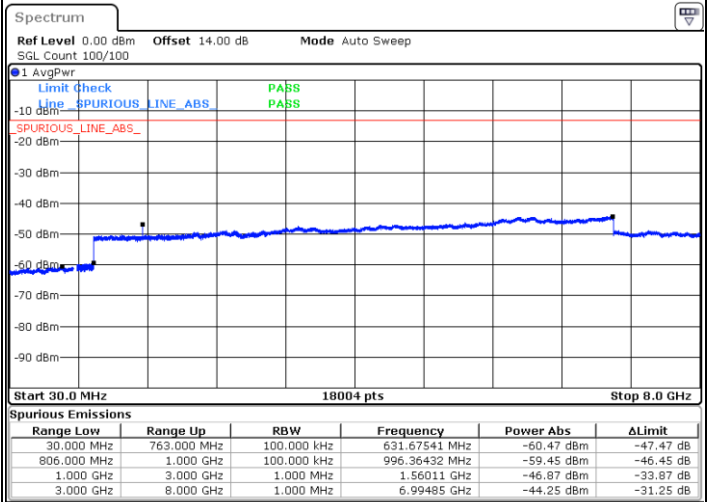
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



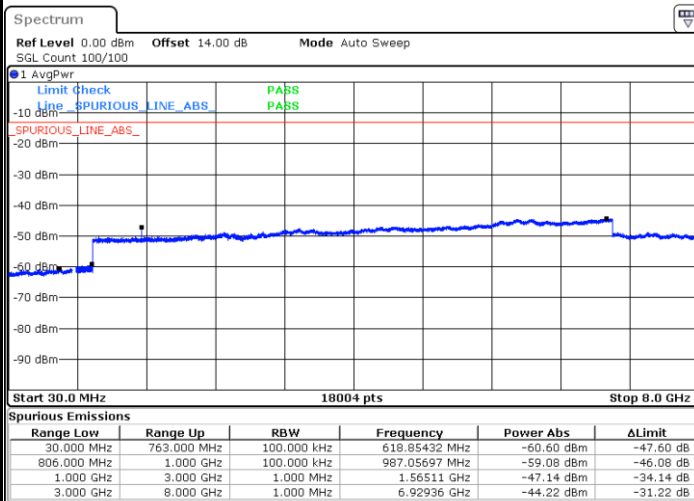
Date: 29.NOV.2022 14:19:12

Middle Channel / 64QAM



Date: 29.NOV.2022 14:19:49

Highest Channel / 64QAM

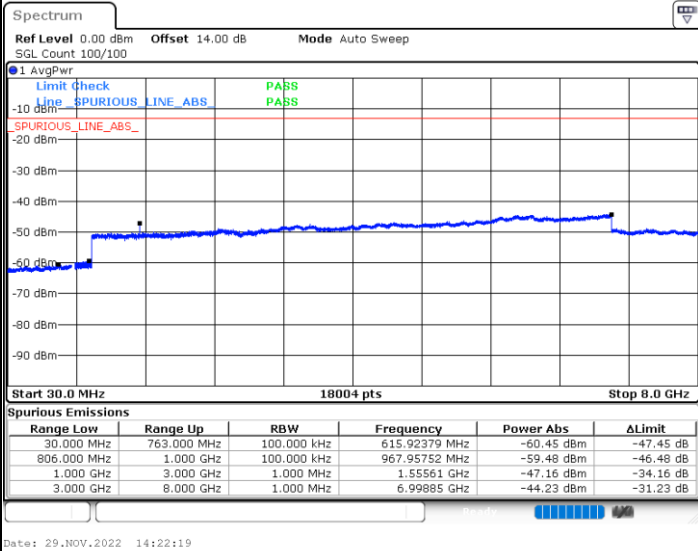


Date: 29.NOV.2022 14:20:27



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	0.0019	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =3.85 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.



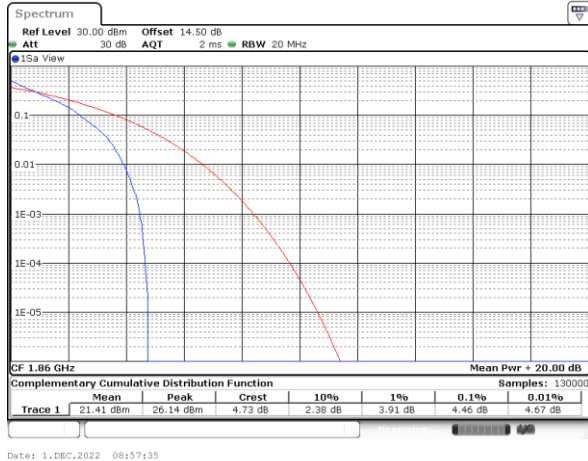
LTE Band 25

Peak-to-Average Ratio

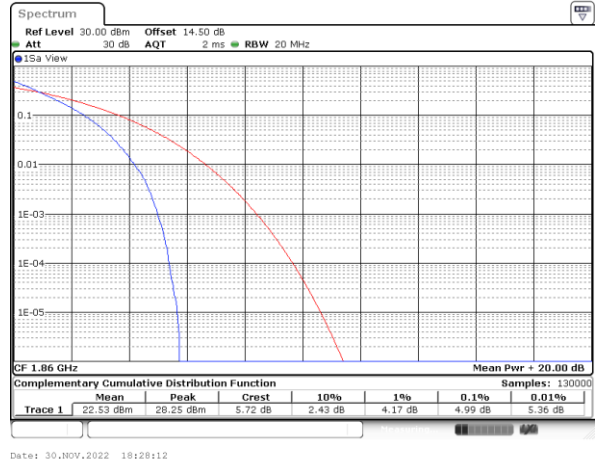
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.46	4.99	5.22	5.88	PASS
Middle CH	4.75	4.93	5.86	5.88	
Highest CH	4.52	4.81	5.51	5.68	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.06	6.12	-	-	PASS
Middle CH	5.68	6.09	-	-	
Highest CH	5.80	6.06	-	-	

LTE Band 25 / 20MHz / QPSK

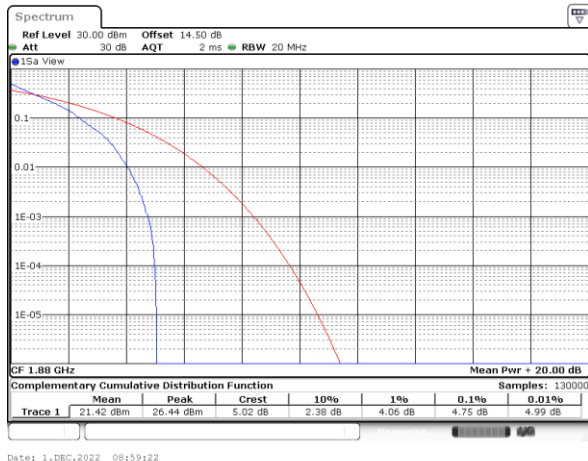
Lowest Channel / 1RB



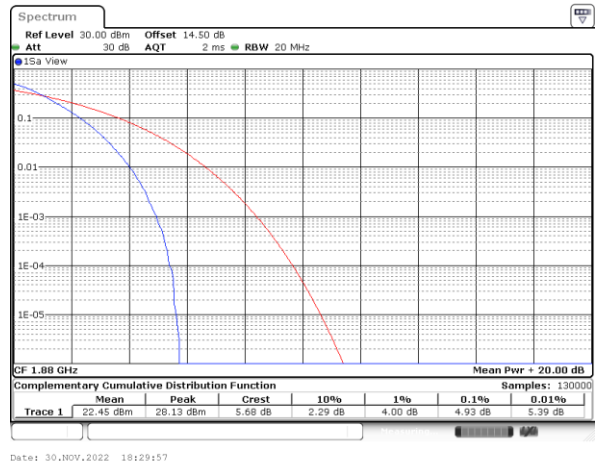
Lowest Channel / Full RB



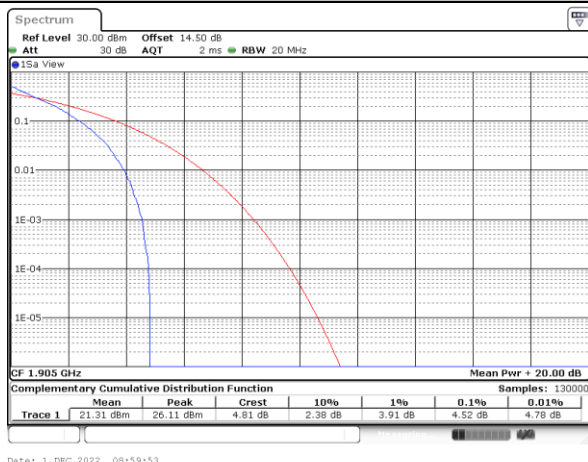
Middle Channel / 1RB



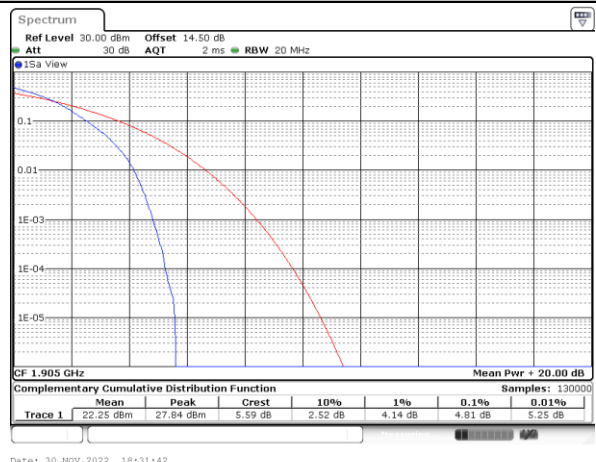
Middle Channel / Full RB

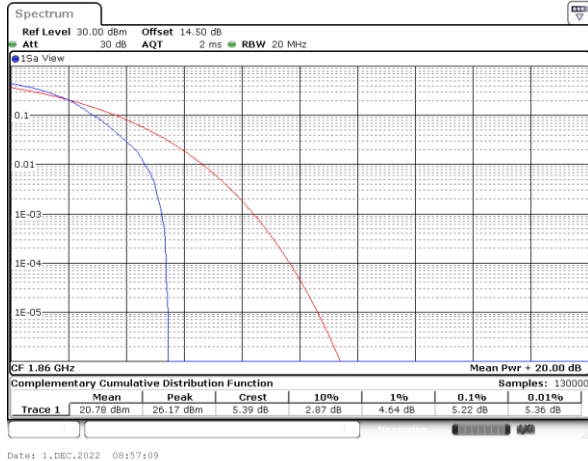
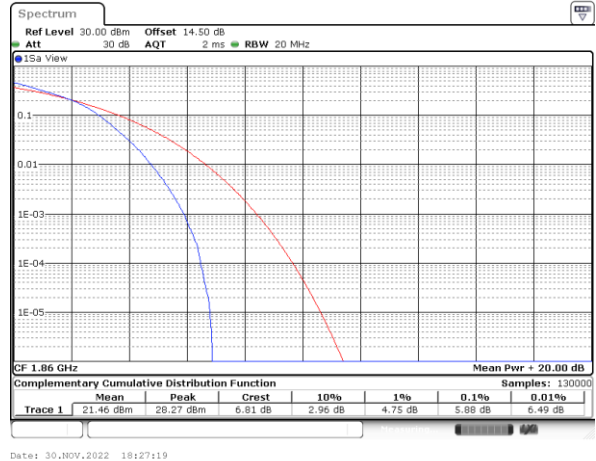
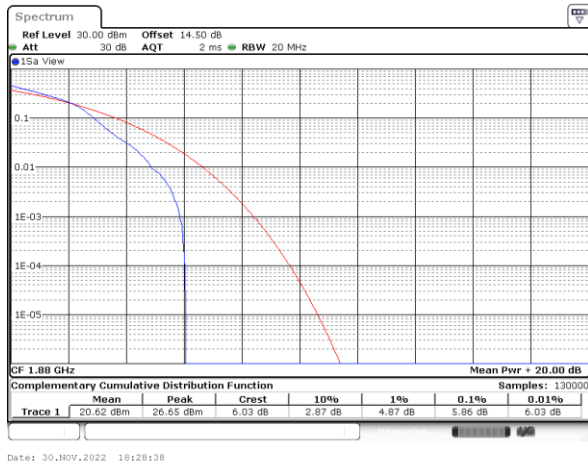
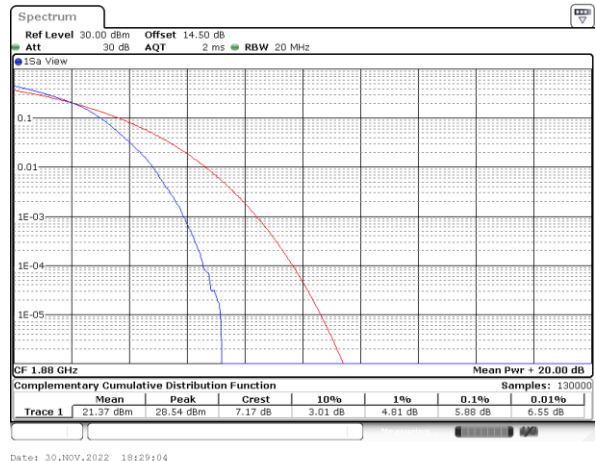
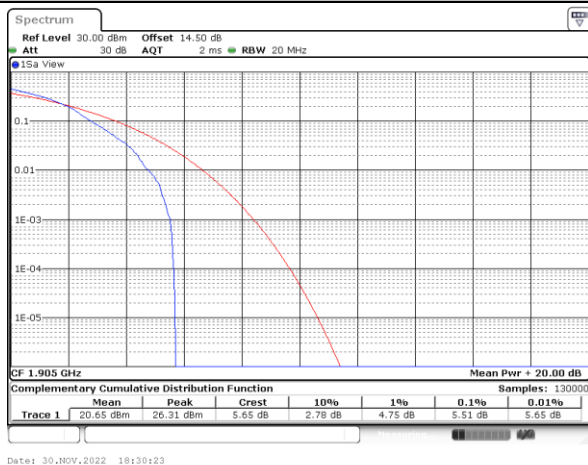
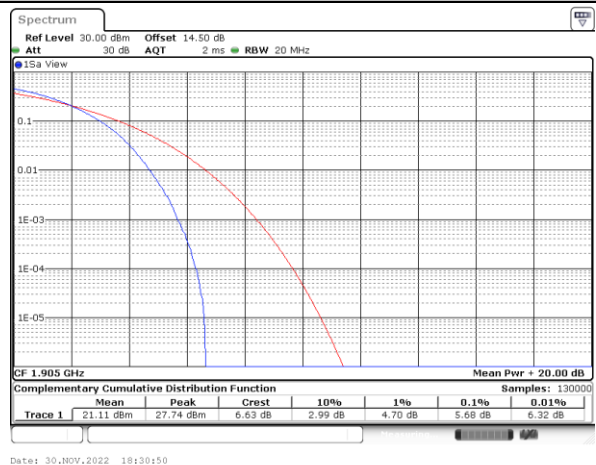


Highest Channel / 1RB



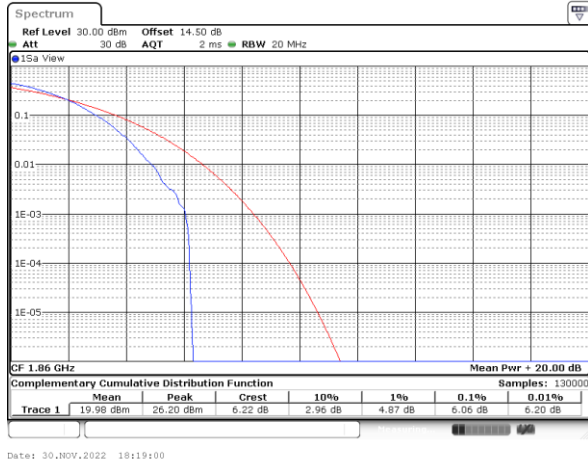
Highest Channel / Full RB



LTE Band 25 / 20MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


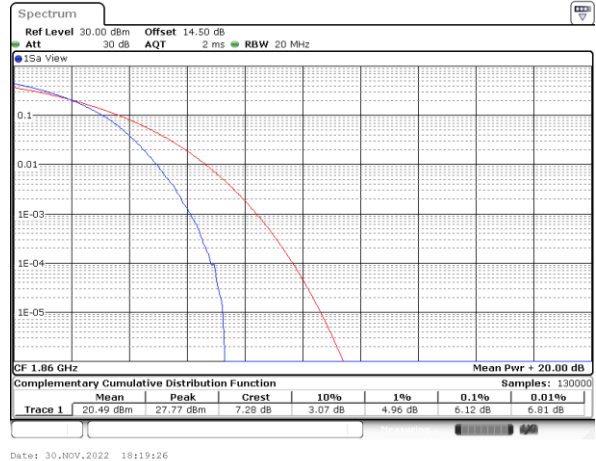
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



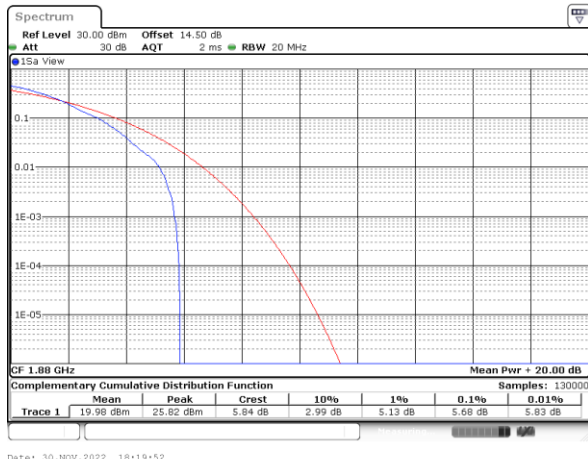
Date: 30,NOV,2022 18:19:00

Lowest Channel / Full RB



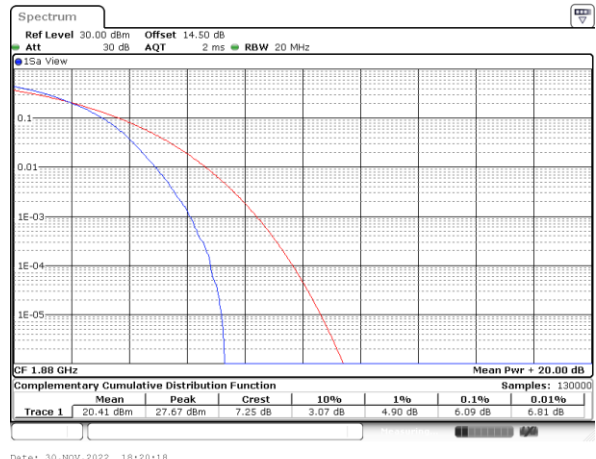
Date: 30,NOV,2022 18:19:26

Middle Channel / 1RB



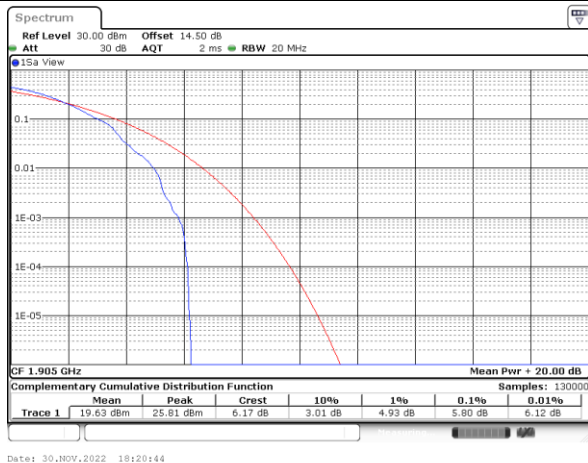
Date: 30,NOV,2022 18:19:52

Middle Channel / Full RB



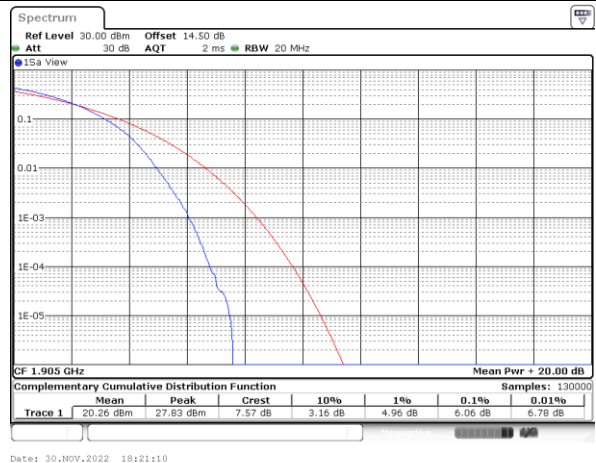
Date: 30,NOV,2022 18:20:16

Highest Channel / 1RB



Date: 30,NOV,2022 18:20:44

Highest Channel / Full RB



Date: 30,NOV,2022 18:21:10

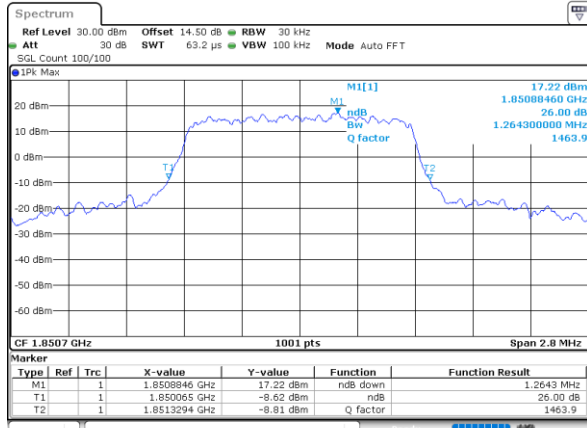
**26dB Bandwidth**

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	1.30	2.94	2.95	5.07	4.96	9.83	9.81	14.36	14.54	18.98	18.90
Middle CH	1.25	1.30	2.94	2.98	4.87	4.72	9.67	10.05	14.60	14.90	18.70	18.94
Highest CH	1.31	1.30	2.96	2.95	5.03	5.04	9.75	9.87	14.42	14.51	18.98	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	1.29	-	2.95	-	4.89	-	9.77	-	14.33	-	19.66	-
Middle CH	1.29	-	2.92	-	5.13	-	10.01	-	14.30	-	18.98	-
Highest CH	1.28	-	2.92	-	5.07	-	9.83	-	14.27	-	18.74	-



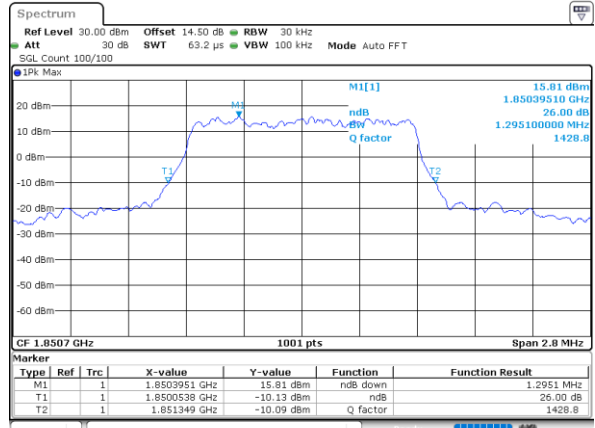
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



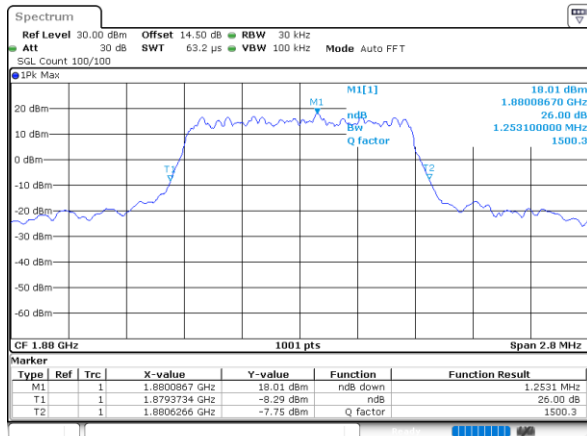
Date: 30,NOV,2022 17:18:31

Lowest Channel / 1.4MHz / 16QAM



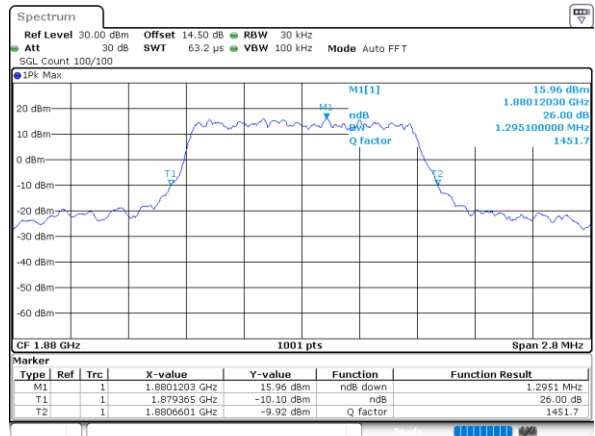
Date: 30,NOV,2022 17:18:56

Middle Channel / 1.4MHz / QPSK



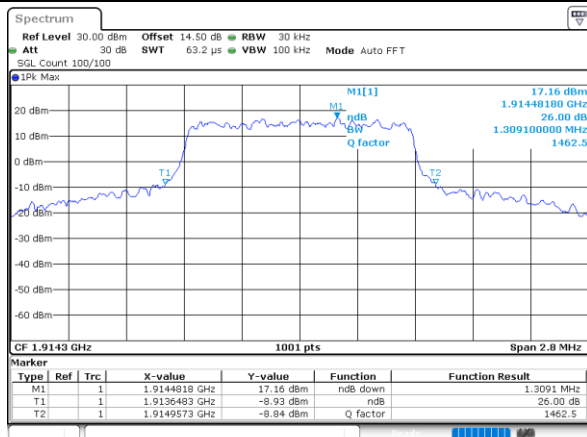
Date: 30,NOV,2022 17:20:10

Middle Channel / 1.4MHz / 16QAM



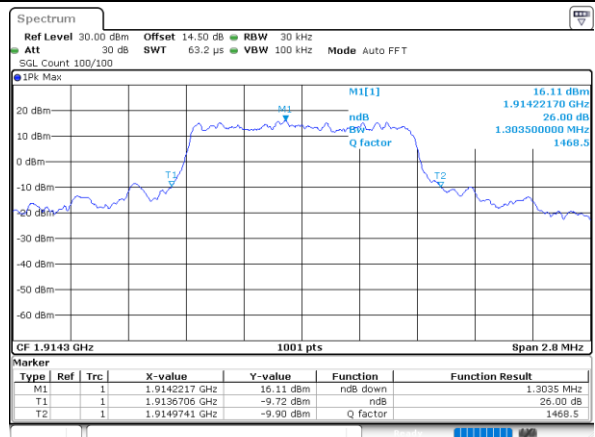
Date: 30,NOV,2022 17:20:35

Highest Channel / 1.4MHz / QPSK



Date: 30,NOV,2022 17:22:04

Highest Channel / 1.4MHz / 16QAM

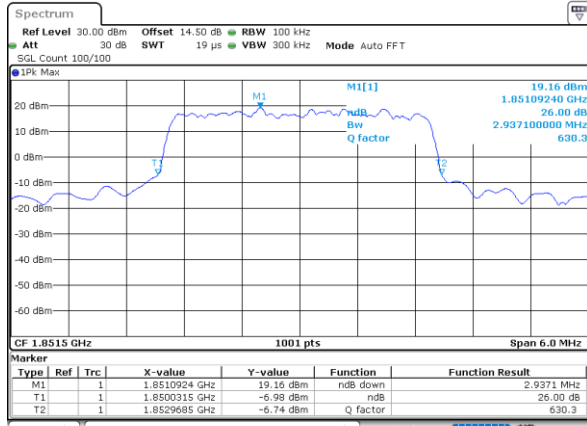


Date: 30,NOV,2022 17:22:40



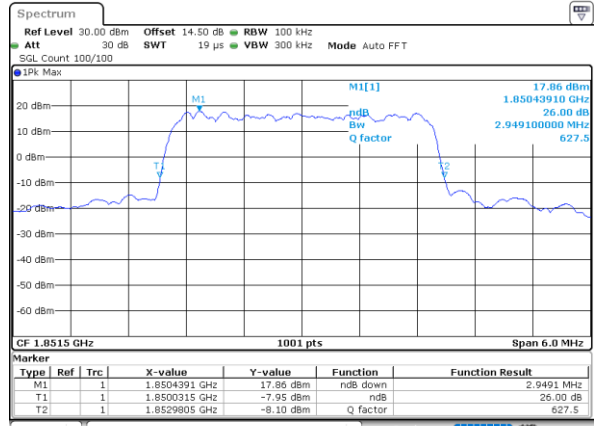
LTE Band 25

Lowest Channel / 3MHz / QPSK



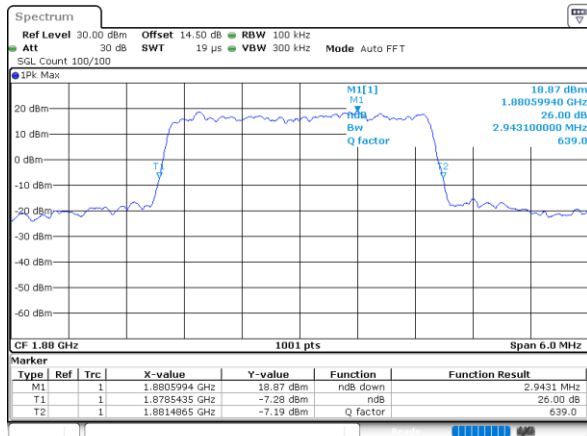
Date: 30,NOV,2022 16:54:33

Lowest Channel / 3MHz / 16QAM



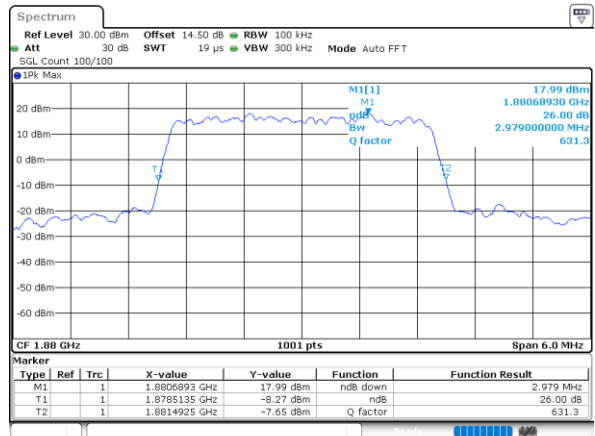
Date: 30,NOV,2022 16:54:57

Middle Channel / 3MHz / QPSK



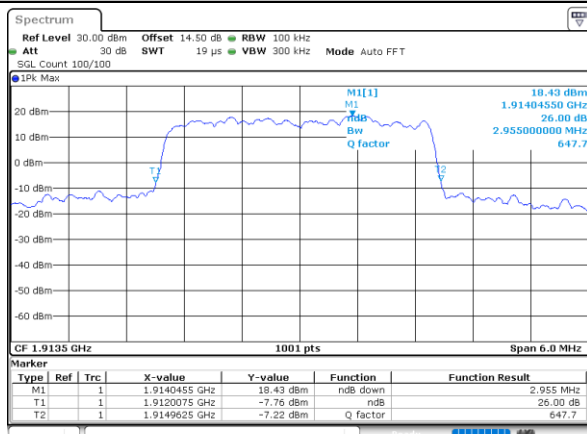
Date: 30,NOV,2022 16:56:12

Middle Channel / 3MHz / 16QAM



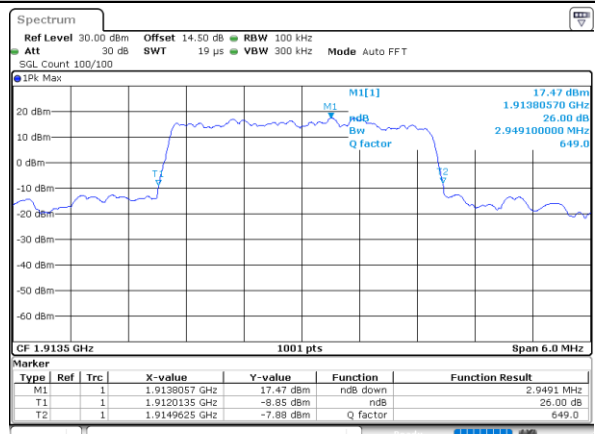
Date: 30,NOV,2022 16:56:36

Highest Channel / 3MHz / QPSK



Date: 30,NOV,2022 16:58:06

Highest Channel / 3MHz / 16QAM

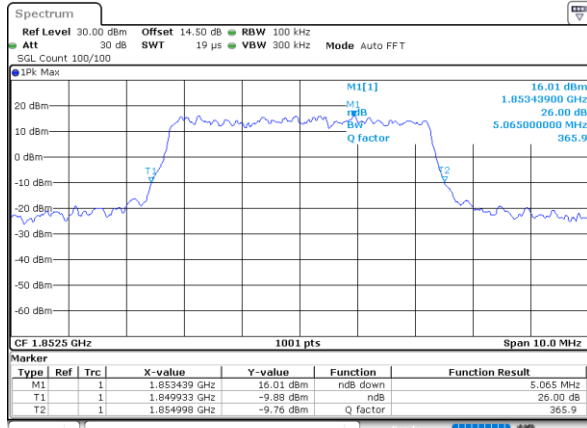


Date: 30,NOV,2022 16:57:41

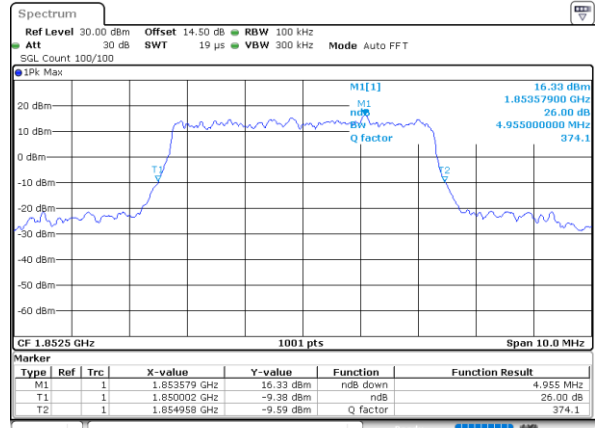


LTE Band 25

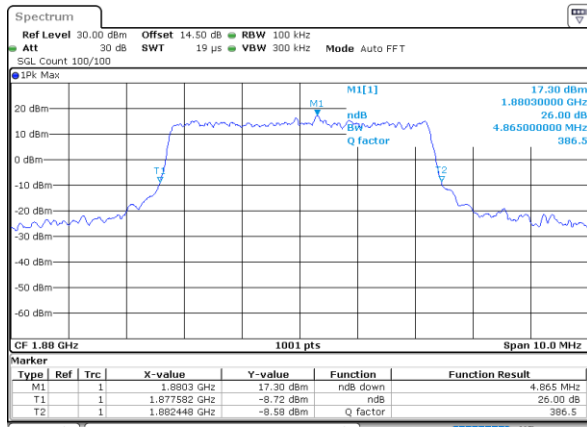
Lowest Channel / 5MHz / QPSK



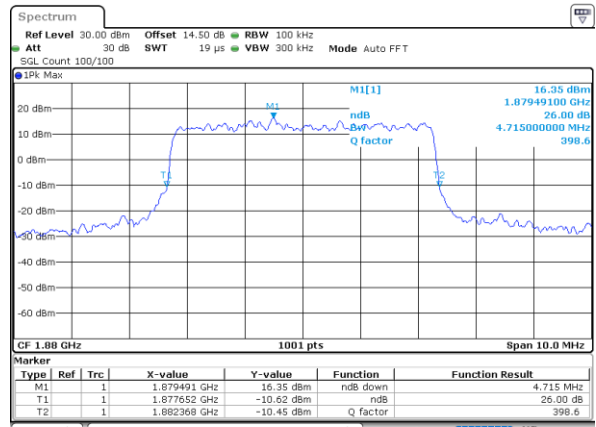
Lowest Channel / 5MHz / 16QAM



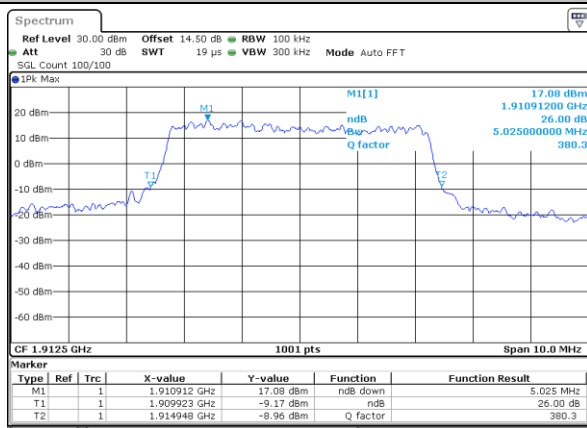
Middle Channel / 5MHz / QPSK



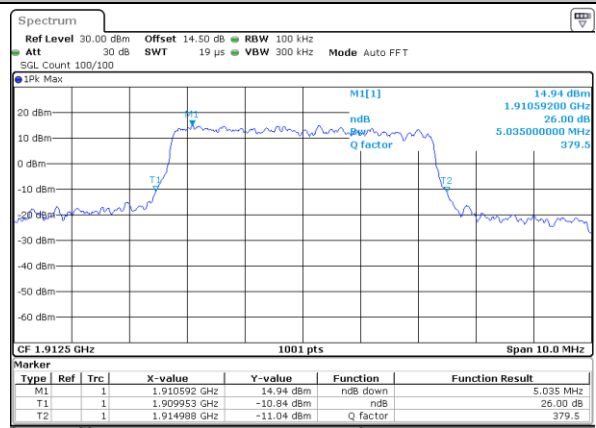
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



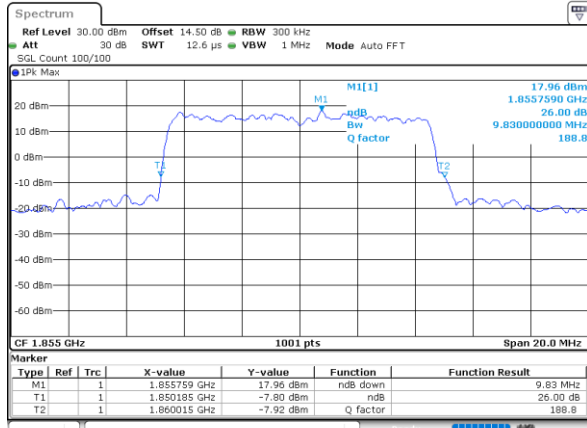
Highest Channel / 5MHz / 16QAM



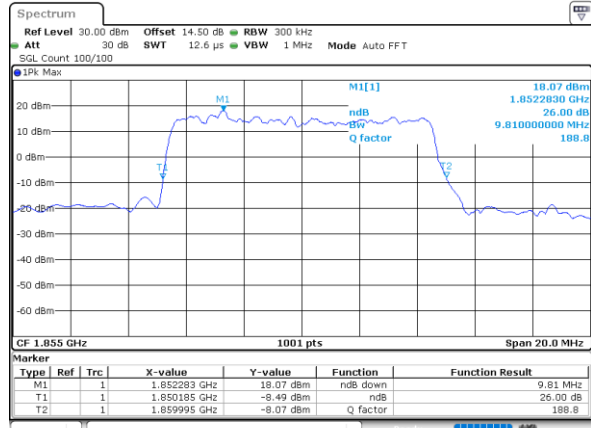


LTE Band 25

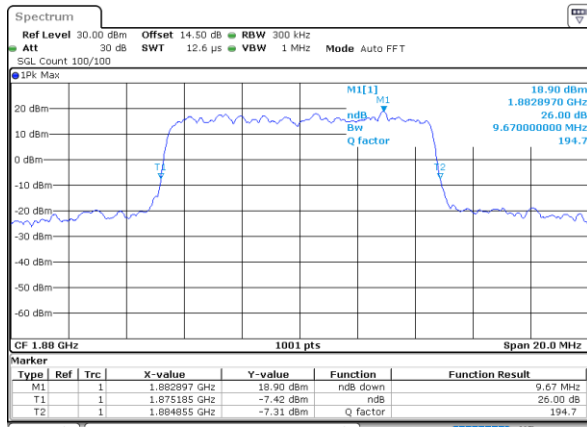
Lowest Channel / 10MHz / QPSK



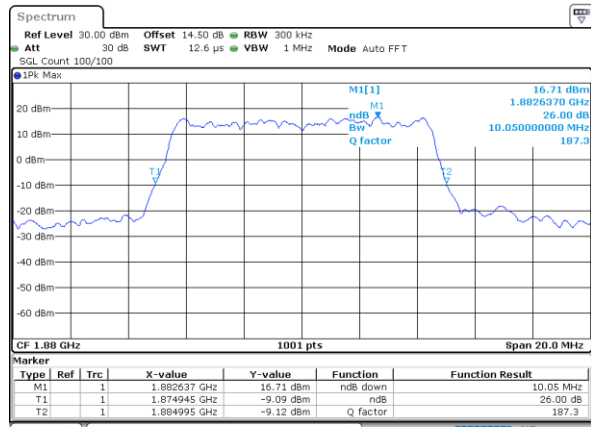
Lowest Channel / 10MHz / 16QAM



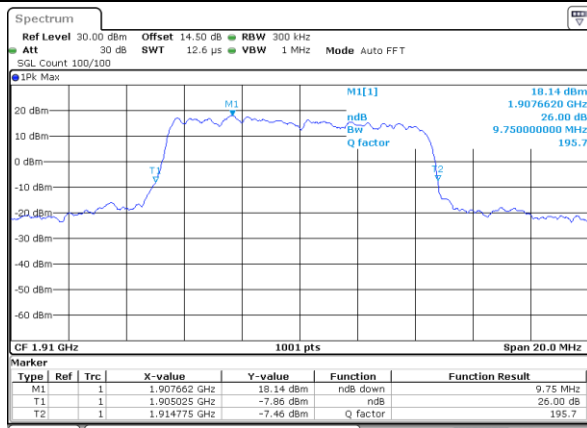
Middle Channel / 10MHz / QPSK



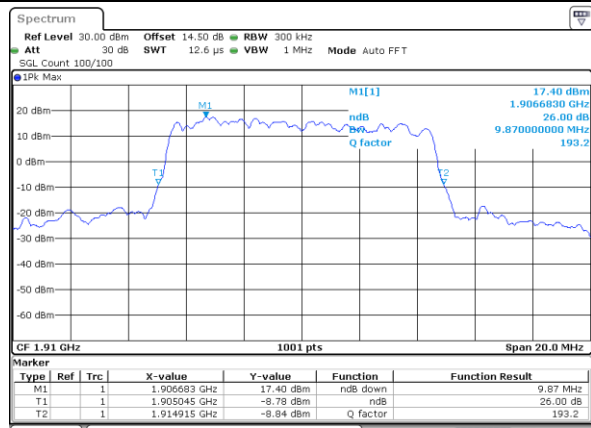
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



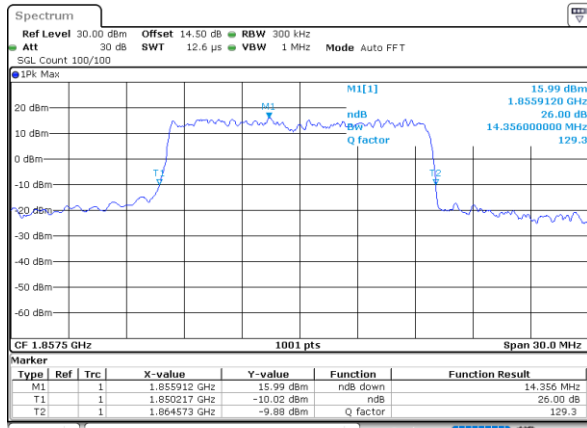
Highest Channel / 10MHz / 16QAM





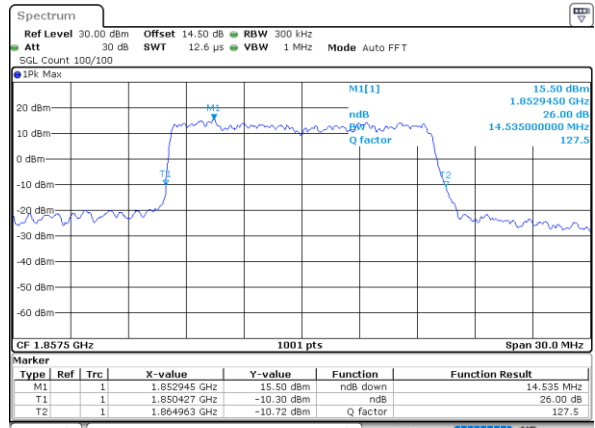
LTE Band 25

Lowest Channel / 15MHz / QPSK



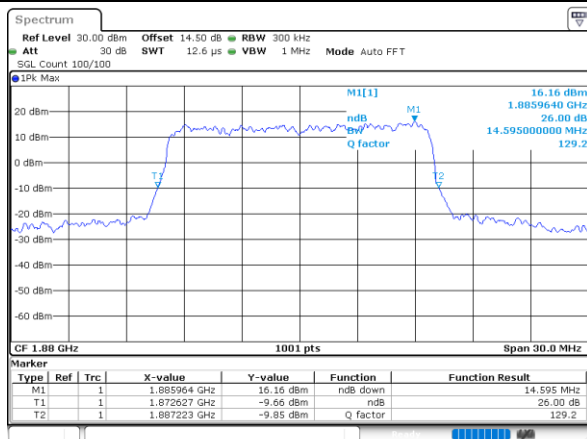
Date: 30,NOV,2022 17:08:55

Lowest Channel / 15MHz / 16QAM



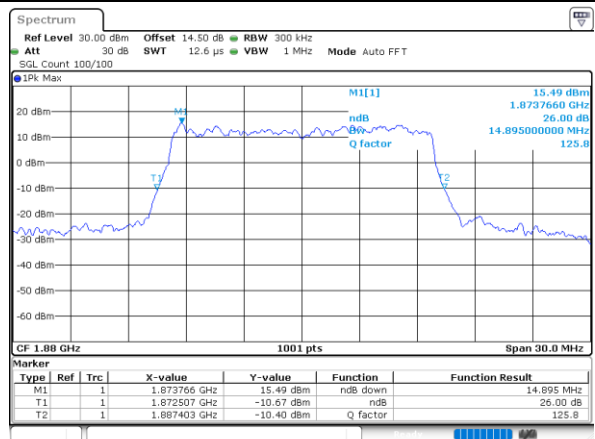
Date: 30,NOV,2022 17:10:120

Middle Channel / 15MHz / QPSK



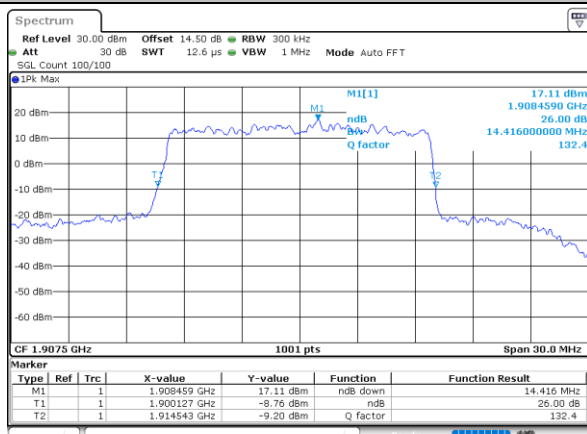
Date: 30,NOV,2022 17:10:34

Middle Channel / 15MHz / 16QAM



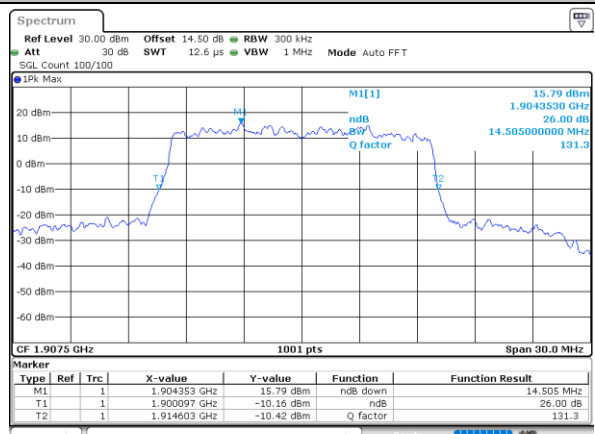
Date: 30,NOV,2022 17:10:59

Highest Channel / 15MHz / QPSK



Date: 30,NOV,2022 17:12:29

Highest Channel / 15MHz / 16QAM

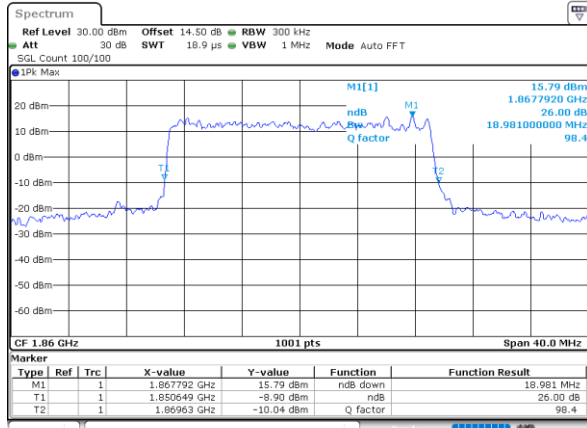


Date: 30,NOV,2022 17:12:04

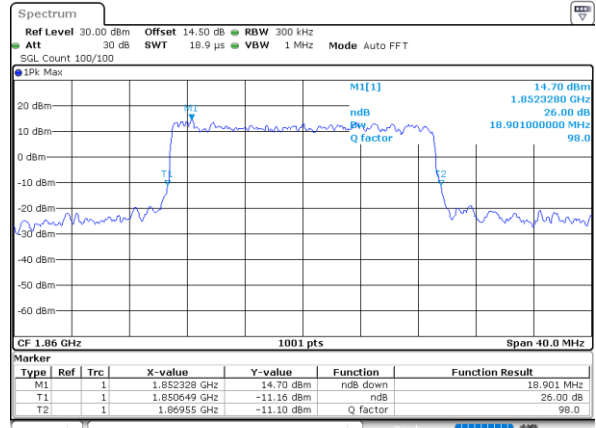


LTE Band 25

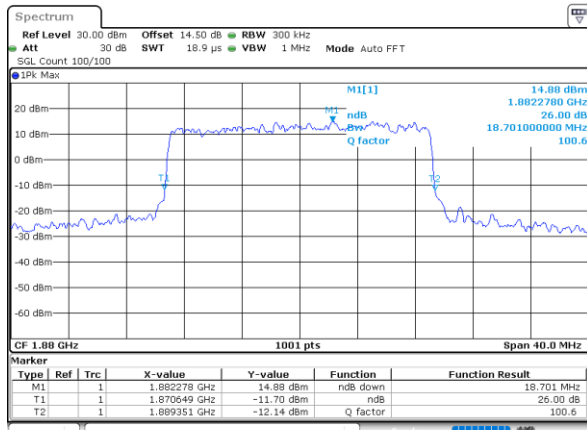
Lowest Channel / 20MHz / QPSK



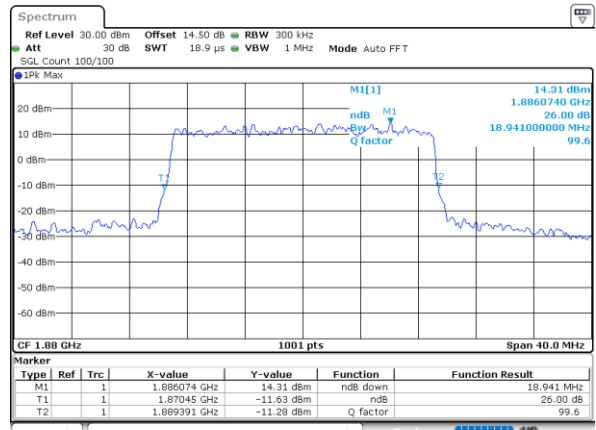
Lowest Channel / 20MHz / 16QAM



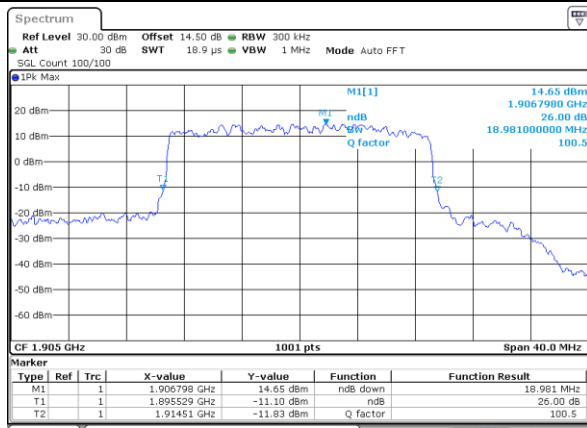
Middle Channel / 20MHz / QPSK



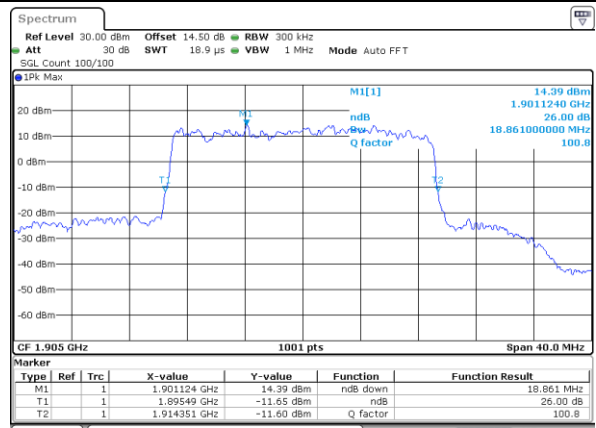
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



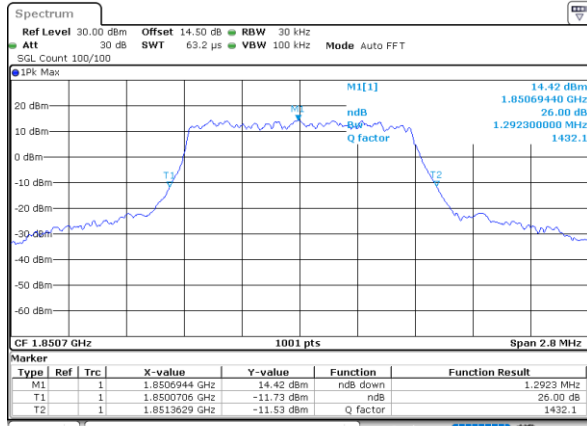
Highest Channel / 20MHz / 16QAM





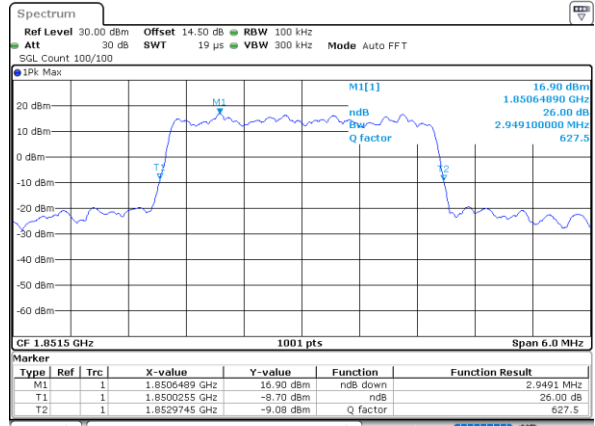
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



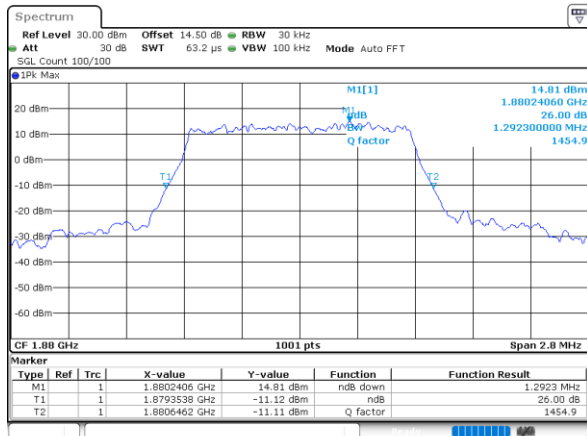
Date: 30,NOV,2022 18:02:14

Lowest Channel / 3MHz / 64QAM



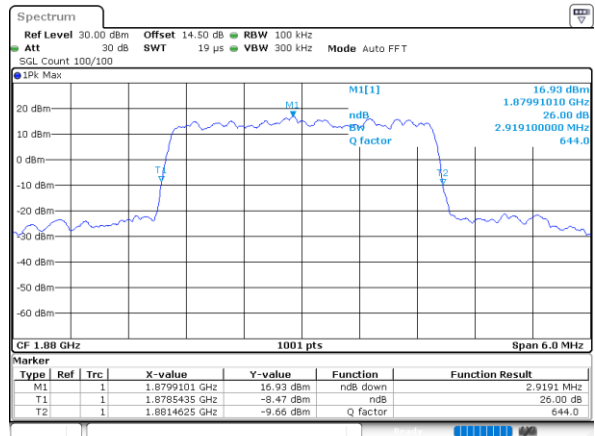
Date: 30,NOV,2022 17:52:132

Middle Channel / 1.4MHz / 64QAM



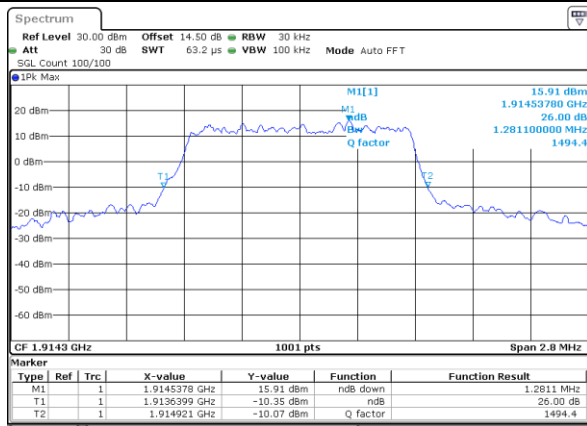
Date: 30,NOV,2022 18:03:14

Middle Channel / 3MHz / 64QAM



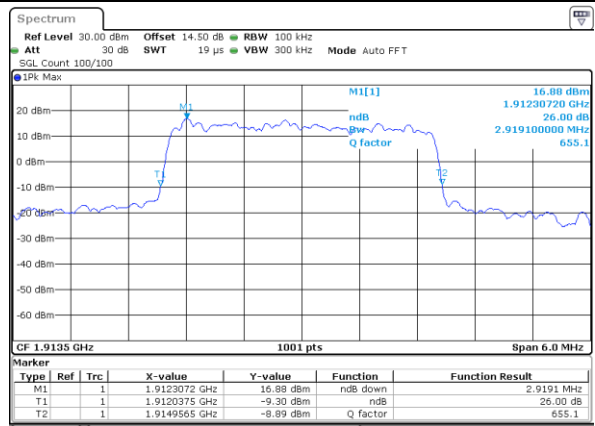
Date: 30,NOV,2022 17:53:112

Highest Channel / 1.4MHz / 64QAM



Date: 30,NOV,2022 18:03:54

Highest Channel / 3MHz / 64QAM

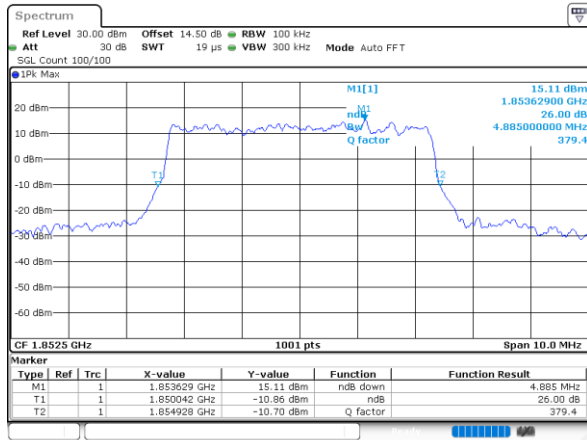


Date: 30,NOV,2022 17:53:152



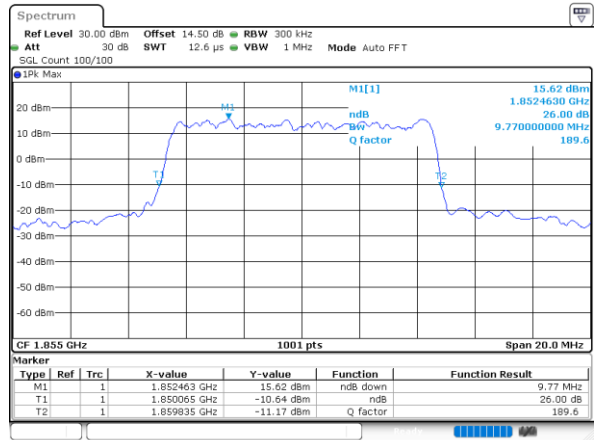
LTE Band 25

Lowest Channel / 5MHz / 64QAM



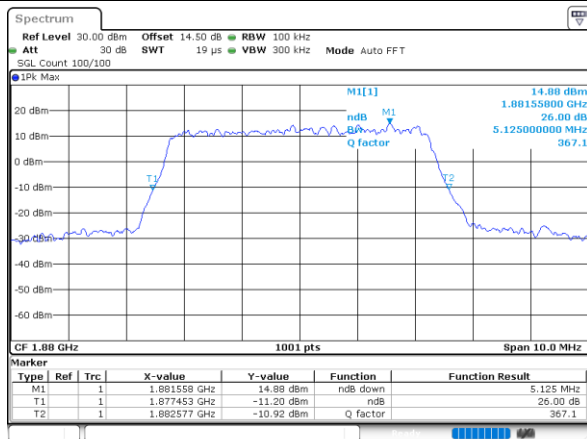
Date: 30,NOV,2022 17:54:32

Lowest Channel / 10MHz / 64QAM



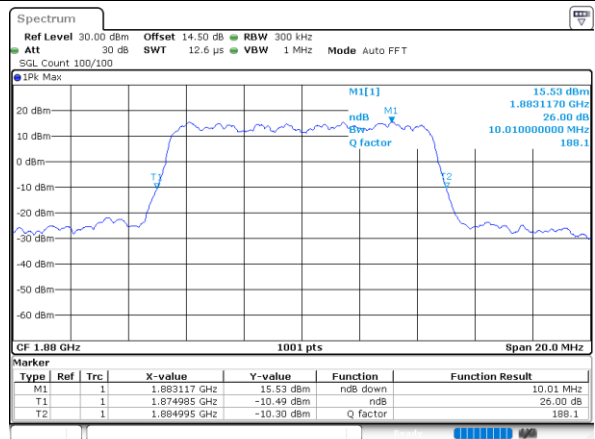
Date: 30,NOV,2022 17:56:32

Middle Channel / 5MHz / 64QAM



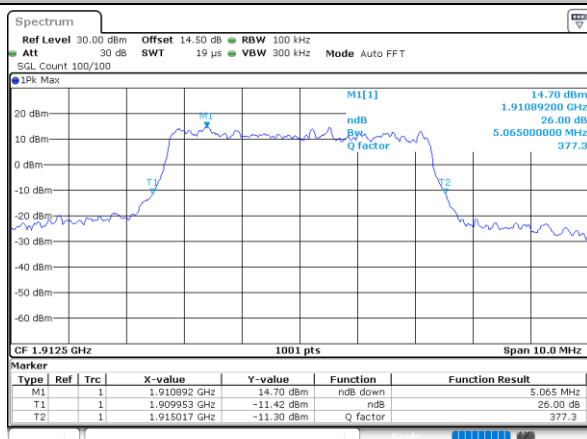
Date: 30,NOV,2022 17:55:12

Middle Channel / 10MHz / 64QAM



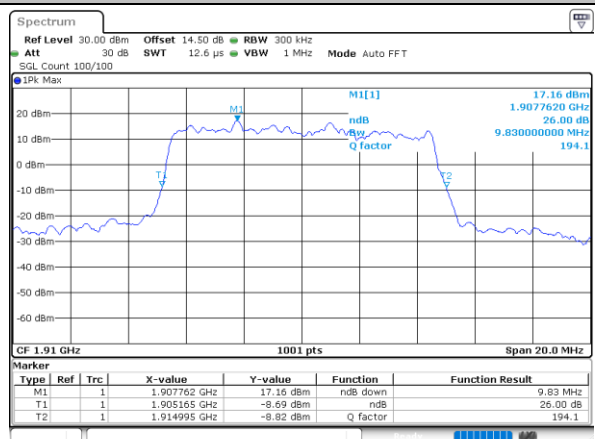
Date: 30,NOV,2022 17:57:12

Highest Channel / 5MHz / 64QAM



Date: 30,NOV,2022 17:55:52

Highest Channel / 10MHz / 64QAM

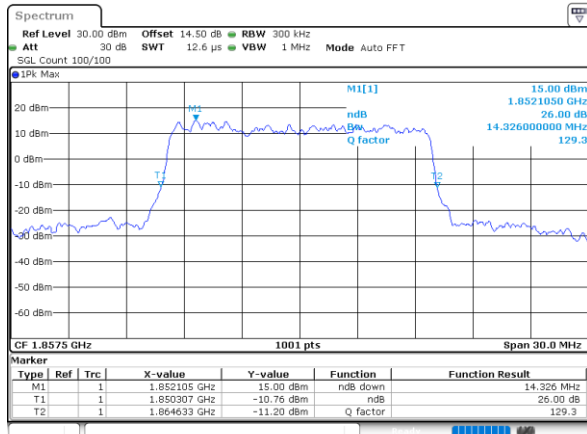


Date: 30,NOV,2022 17:57:52

LTE Band 25

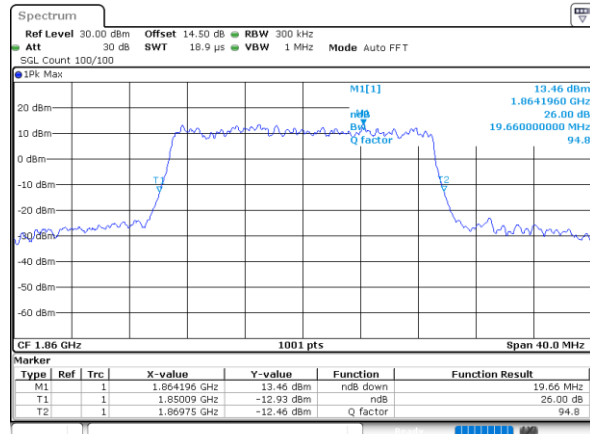


Lowest Channel / 15MHz / 64QAM



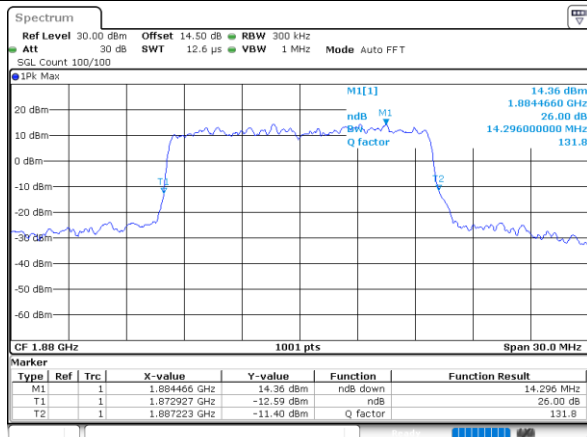
Date: 30.NOV.2022 17:58:33

Lowest Channel / 20MHz / 64QAM



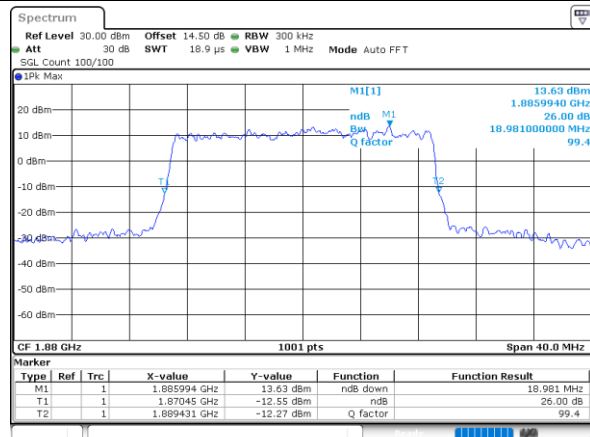
Date: 30.NOV.2022 18:00:34

Middle Channel / 15MHz / 64QAM



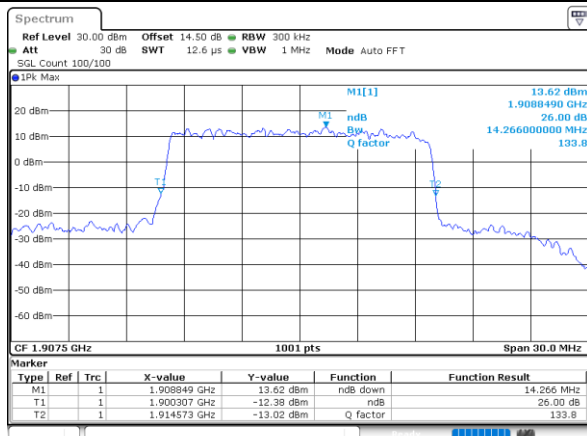
Date: 30.NOV.2022 17:59:13

Middle Channel / 20MHz / 64QAM



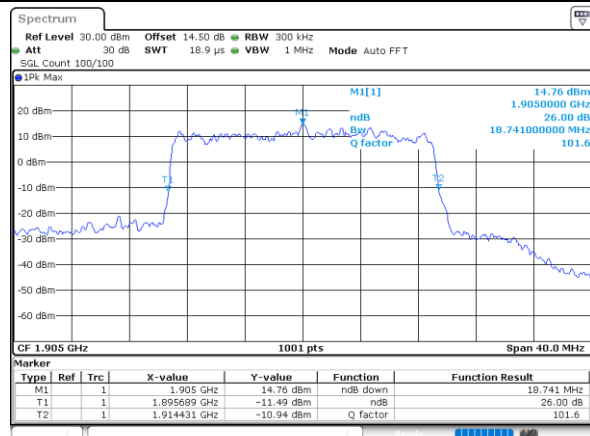
Date: 30.NOV.2022 18:01:14

Highest Channel / 15MHz / 64QAM



Date: 30.NOV.2022 17:59:53

Highest Channel / 20MHz / 64QAM



Date: 30.NOV.2022 18:01:54

**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	2.70	2.70	4.50	4.49	9.13	9.03	13.52	13.43	17.94	17.90
Middle CH	1.08	1.09	2.72	2.70	4.50	4.50	9.03	8.99	13.46	13.37	17.90	17.86
Highest CH	1.10	1.09	2.72	2.72	4.52	4.52	8.99	9.01	13.34	13.46	17.86	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	1.10	-	2.72	-	4.52	-	9.03	-	13.46	-	17.90	-
Middle CH	1.09	-	2.72	-	4.51	-	9.01	-	13.46	-	17.90	-
Highest CH	1.10	-	2.73	-	4.50	-	9.01	-	13.34	-	17.82	-