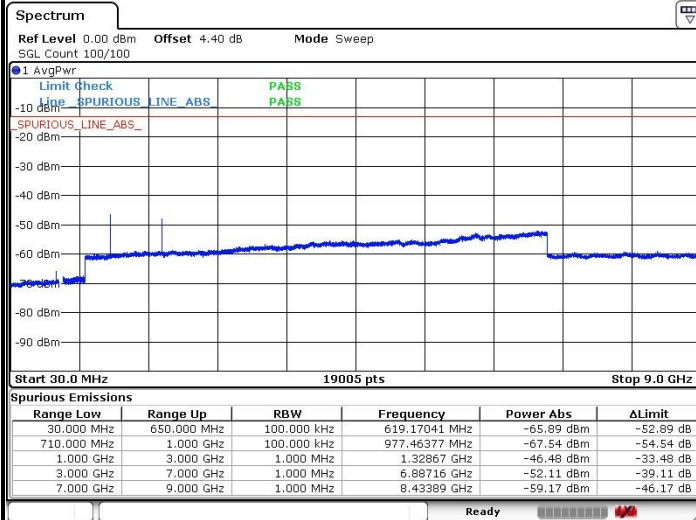




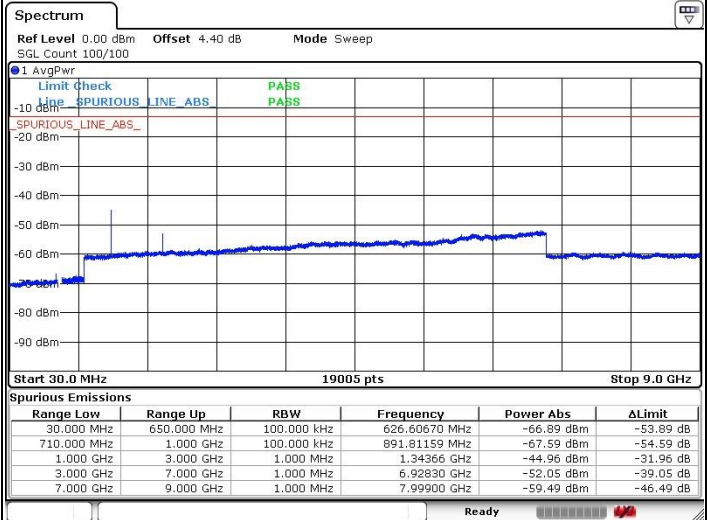
LTE Band 71 / 20MHz

Lowest Channel / 64QAM



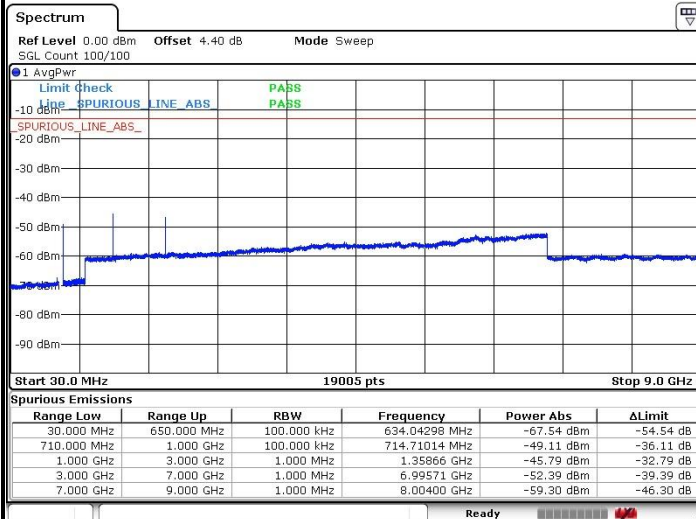
Date: 17.OCT.2019 04:35:01

Middle Channel / 64QAM



Date: 17.OCT.2019 04:31:39

Highest Channel / 64QAM



Date: 17.OCT.2019 04:35:30

**Frequency Stability**

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0050	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0004	

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 41_CA

26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.925	25.275	29.97	25.524	30.749
Middle CH	24.875	25.475	30.21	25.475	30.749
Highest CH	25.075	25.325	29.97	25.375	30.749
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.965	25.325	30.03	35.035	39.96
Middle CH	35.105	25.325	30.15	34.965	40.04
Highest CH	35.035	25.125	30.15	34.965	40.04

Mode	LTE Band 41 : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.925	25.125	29.73	25.375	30.569
Middle CH	24.975	25.275	29.91	25.425	30.809
Highest CH	24.875	25.325	29.85	25.475	30.629
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.895	25.175	30.03	34.965	39.96
Middle CH	35.035	25.075	30.03	34.895	40.12
Highest CH	34.895	25.175	30.03	34.965	39.96

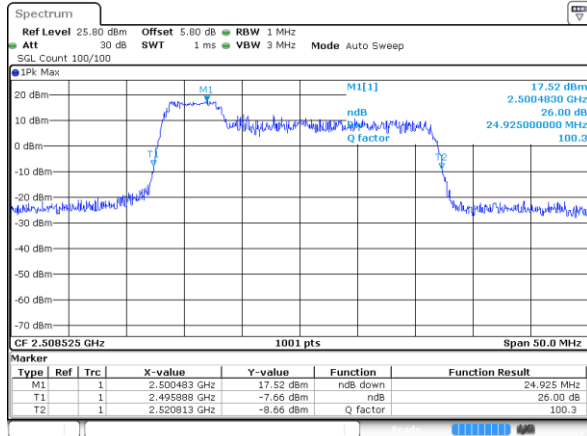
Mode	LTE Band 41 : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.725	25.375	29.85	25.425	30.569
Middle CH	24.825	25.325	29.97	25.375	30.569
Highest CH	24.975	25.375	29.97	25.325	30.629
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	35.035	25.025	30.15	34.965	39.88
Middle CH	35.105	25.075	30.03	34.965	40.12
Highest CH	34.895	25.025	30.09	34.895	39.96



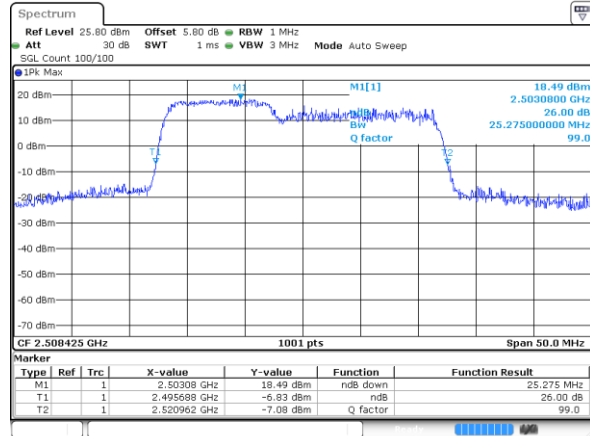
LTE Band 41

QPSK

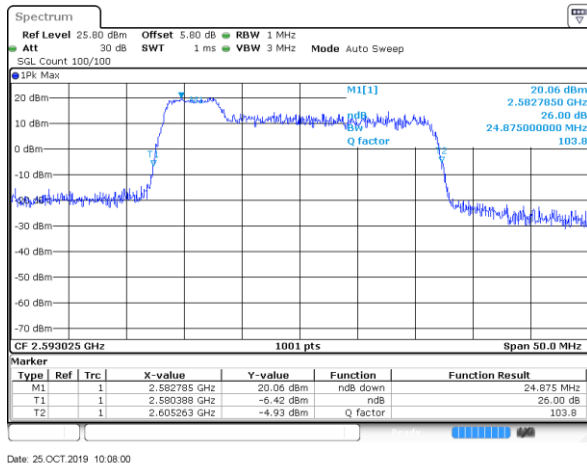
Lowest Channel / 5MHz+20MHz



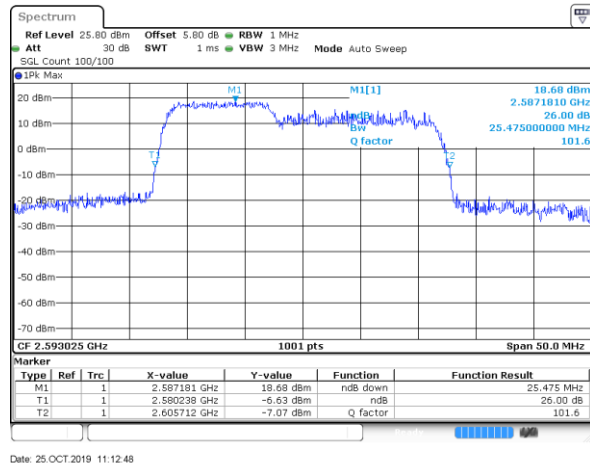
Lowest Channel / 10MHz+15MHz



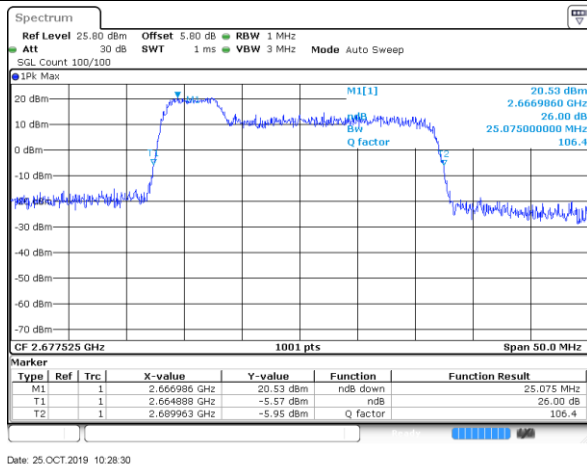
Middle Channel / 5MHz+20MHz



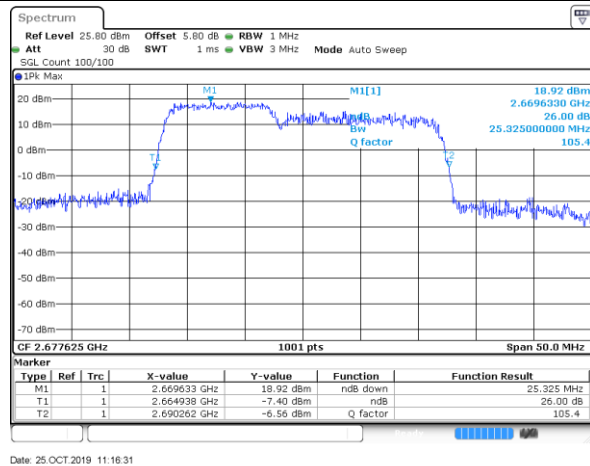
Middle Channel / 10MHz+15MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+15MHz

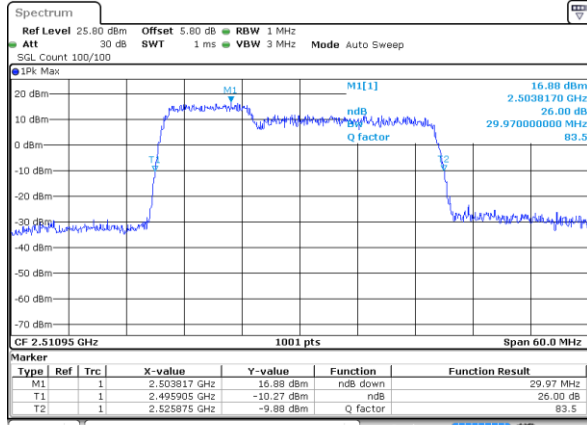




LTE Band 41

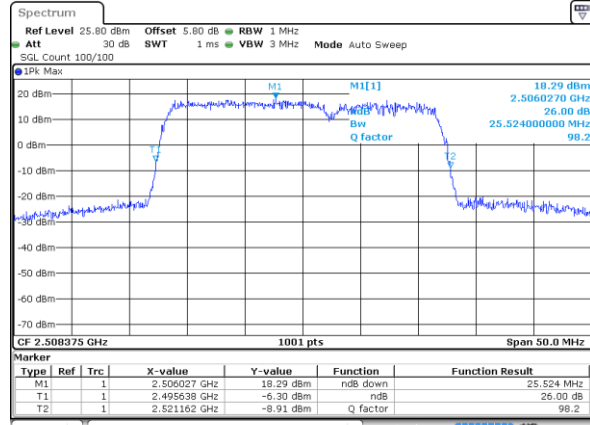
QPSK

Lowest Channel / 10MHz+20MHz



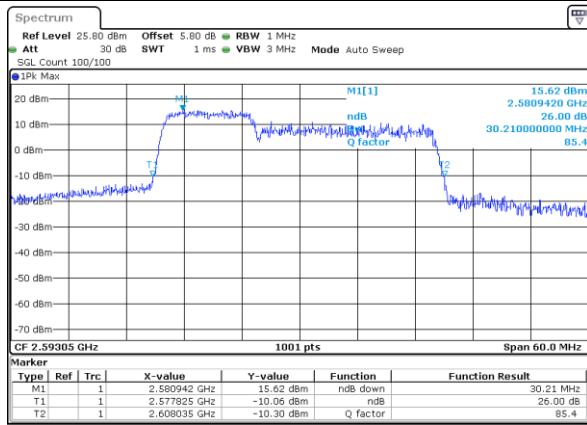
Date: 7 NOV 2019 19:28:28

Lowest Channel / 15MHz+10MHz



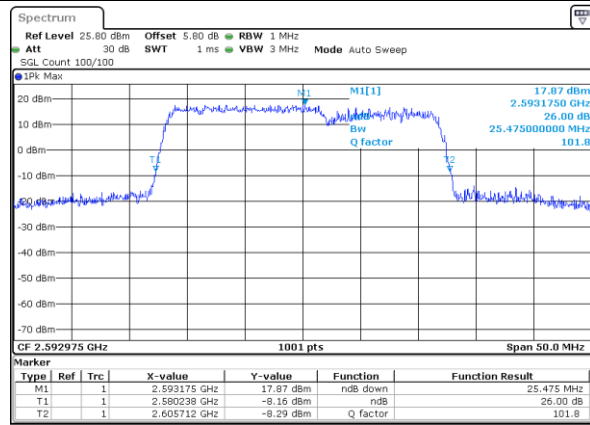
Date: 7 NOV 2019 20:59:19

Middle Channel / 10MHz+20MHz



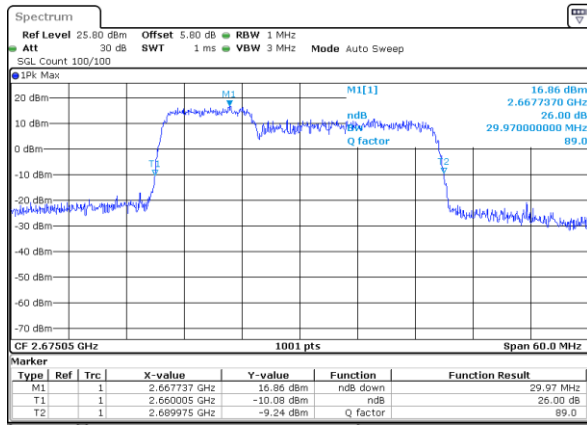
Date: 7 NOV 2019 19:27:30

Middle Channel / 15MHz+10MHz



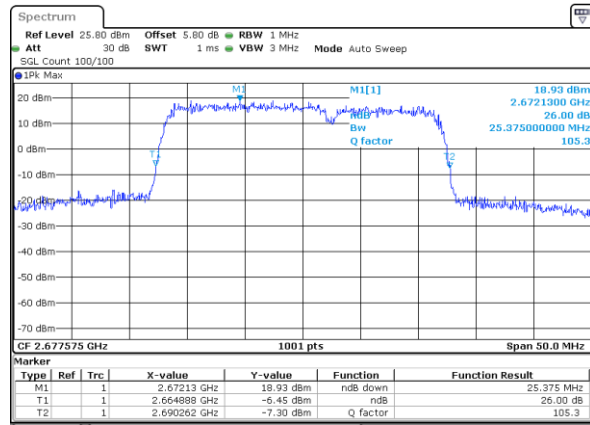
Date: 7 NOV 2019 21:05:16

Highest Channel / 10MHz+20MHz



Date: 7 NOV 2019 19:15:37

Highest Channel / 15MHz+10MHz



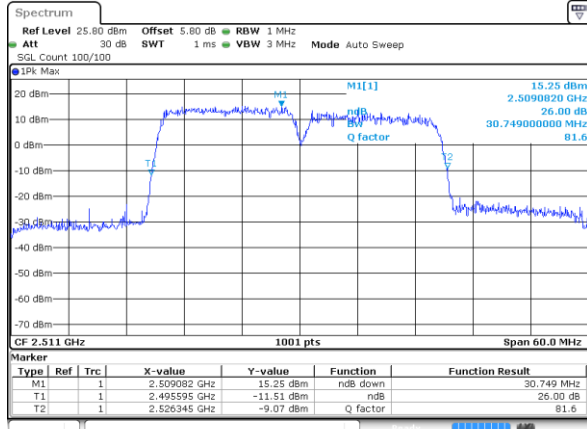
Date: 7 NOV 2019 21:21:28



LTE Band 41

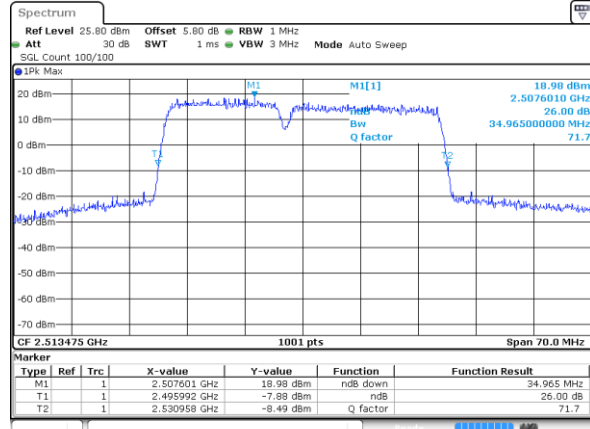
QPSK

Lowest Channel / 15MHz+15MHz



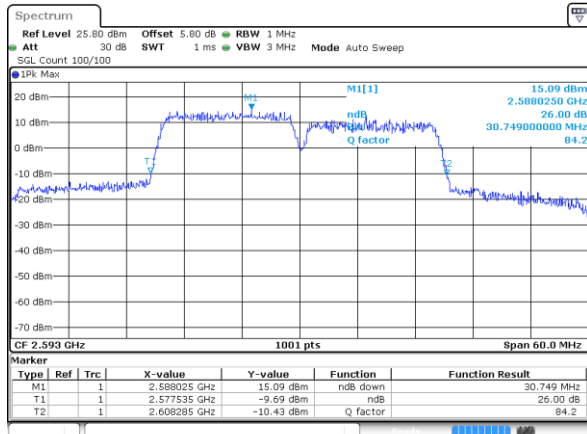
Date: 7 NOV 2019 19:37:52

Lowest Channel / 15MHz+20MHz



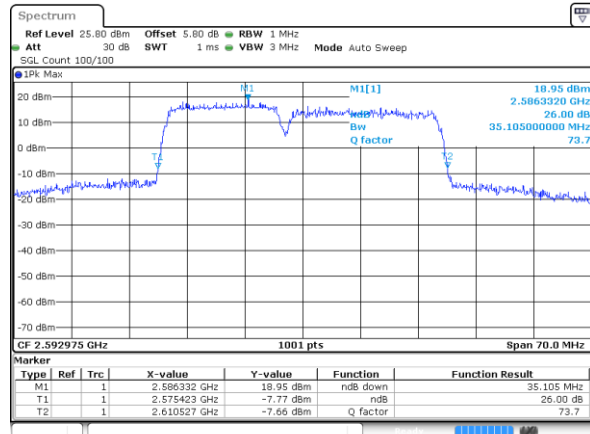
Date: 9 NOV 2019 21:44:55

Middle Channel / 15MHz+15MHz



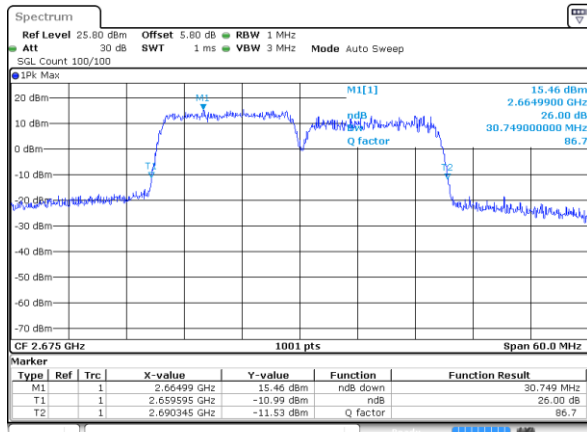
Date: 7 NOV 2019 20:18:03

Middle Channel / 15MHz+20MHz



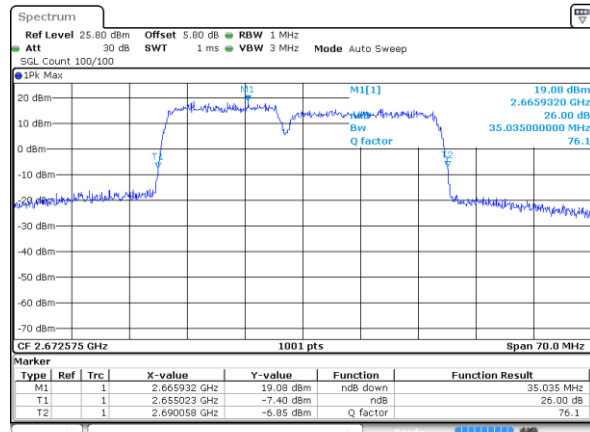
Date: 9 NOV 2019 22:01:54

Highest Channel / 15MHz+15MHz



Date: 7 NOV 2019 20:21:12

Highest Channel / 15MHz+20MHz



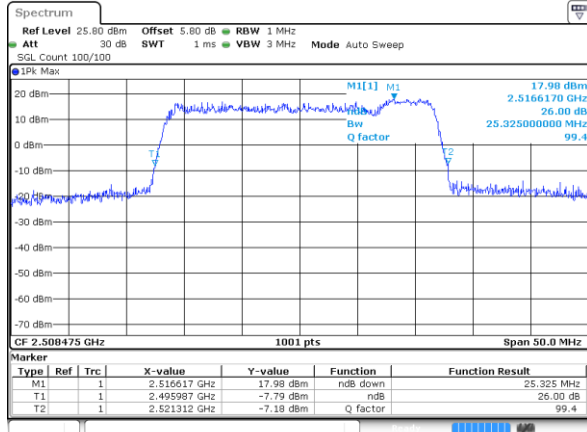
Date: 9 NOV 2019 22:03:11



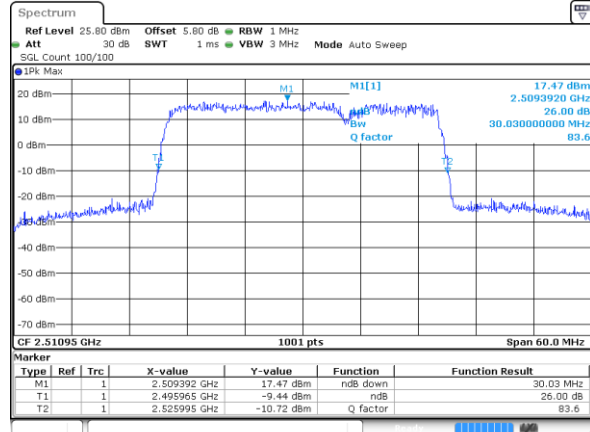
LTE Band 41

QPSK

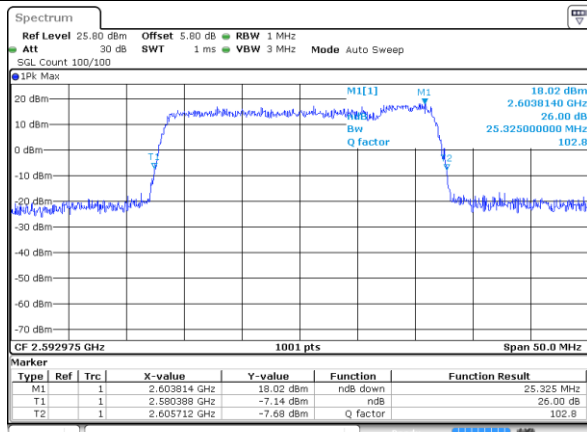
Lowest Channel / 20MHz+5MHz



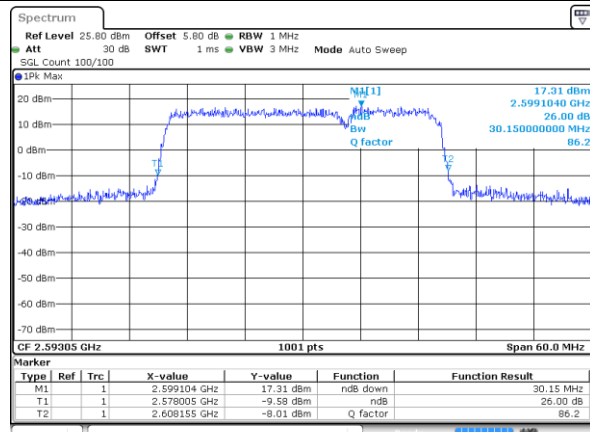
Lowest Channel / 20MHz+10MHz



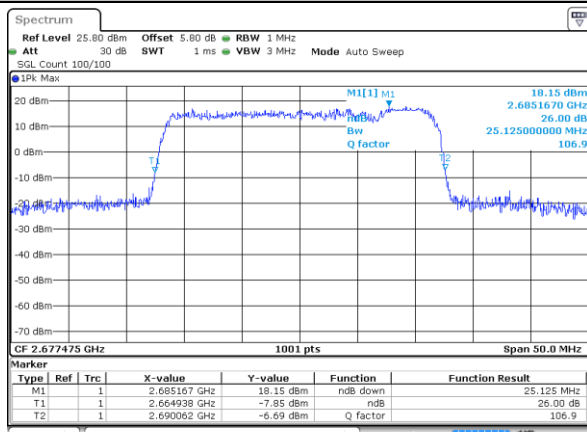
Middle Channel / 20MHz+5MHz



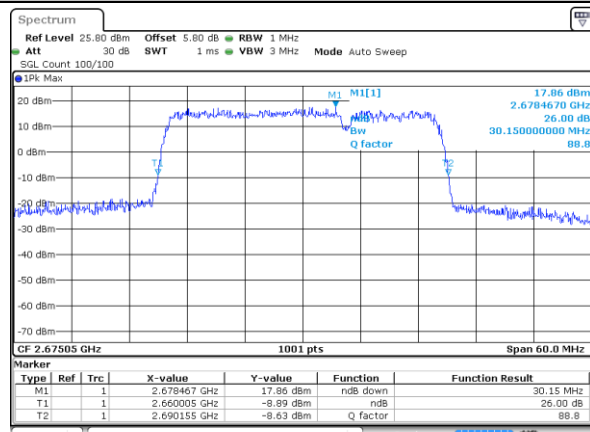
Middle Channel / 20MHz+10MHz



Highest Channel / 20MHz+5MHz



Highest Channel / 20MHz+10MHz

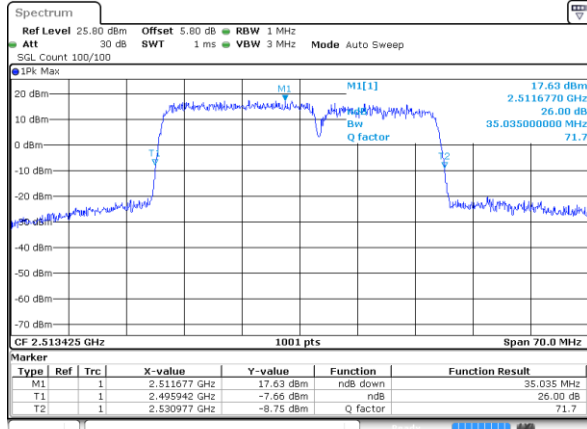




LTE Band 41

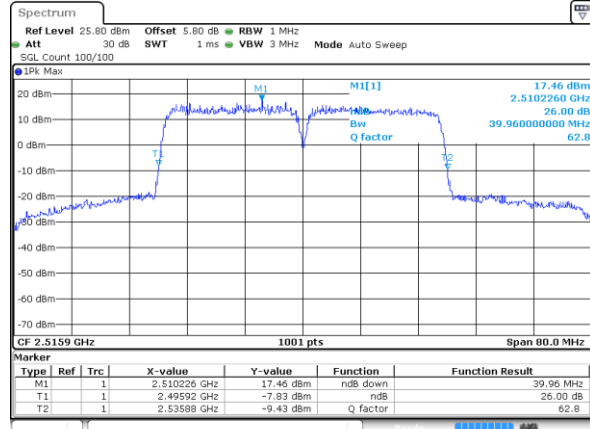
QPSK

Lowest Channel / 20MHz+15MHz



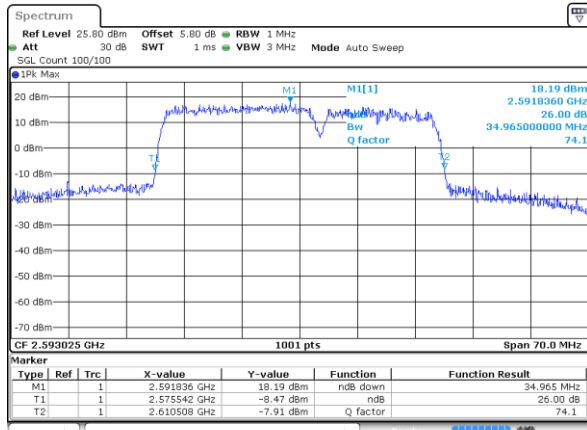
Date: 8 NOV 2019 20:25:00

Lowest Channel / 20MHz+20MHz



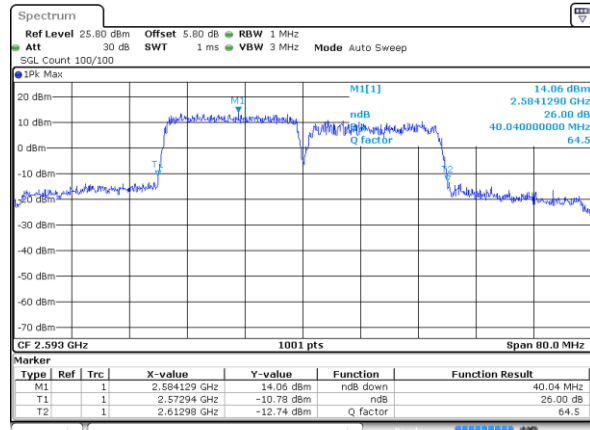
Date: 7 NOV 2019 18:30:50

Middle Channel / 20MHz+15MHz



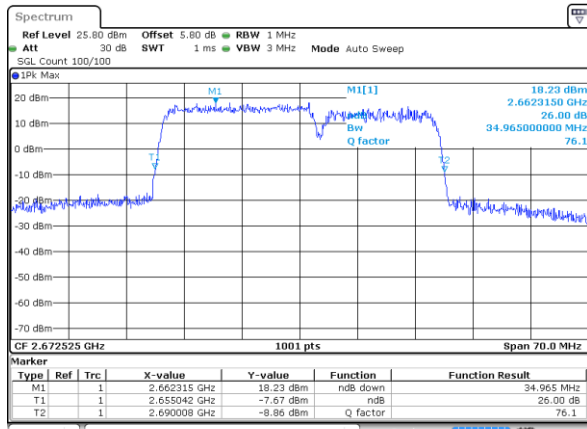
Date: 8 NOV 2019 20:20:55

Middle Channel / 20MHz+20MHz



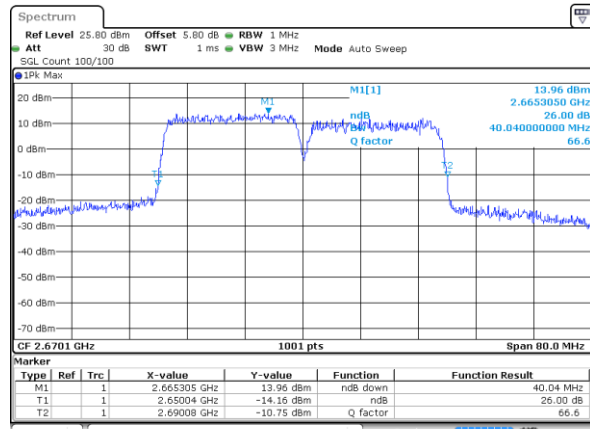
Date: 7 NOV 2019 18:56:07

Highest Channel / 20MHz+15MHz



Date: 8 NOV 2019 20:04:34

Highest Channel / 20MHz+20MHz



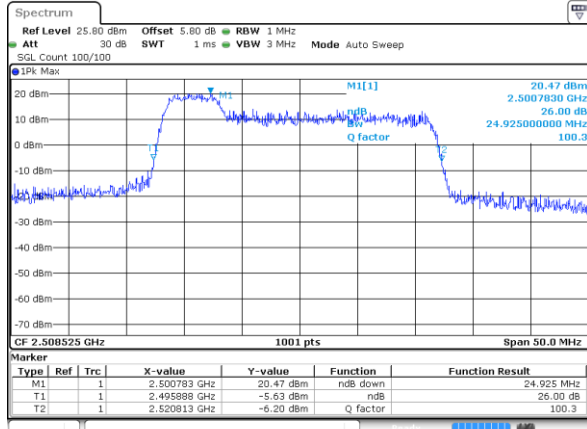
Date: 7 NOV 2019 18:52:57



LTE Band 41

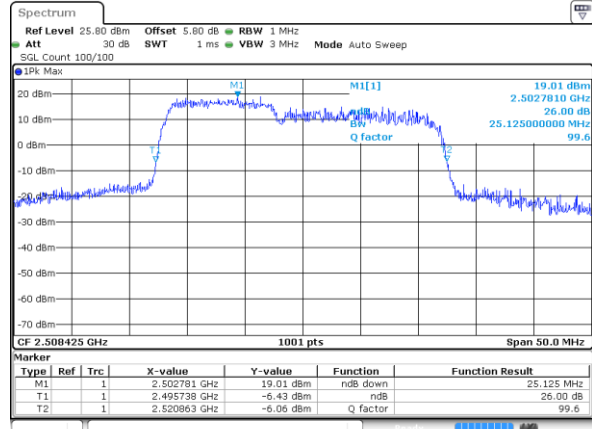
16QAM

Lowest Channel / 5MHz+20MHz



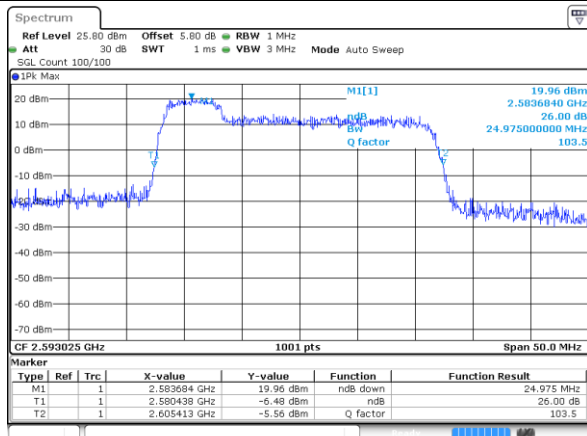
Date: 25 OCT 2019 09:55:46

Lowest Channel / 10MHz+15MHz



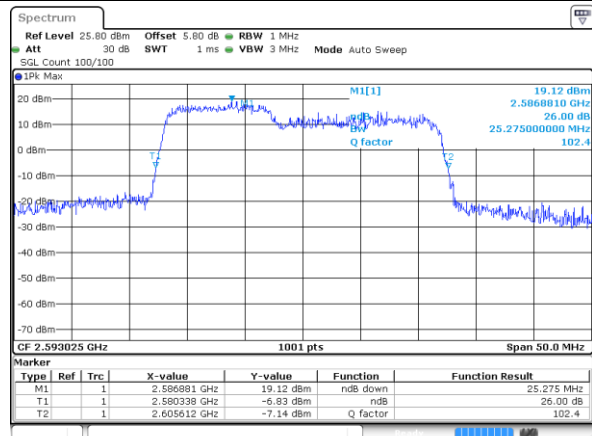
Date: 25 OCT 2019 10:58:54

Middle Channel / 5MHz+20MHz



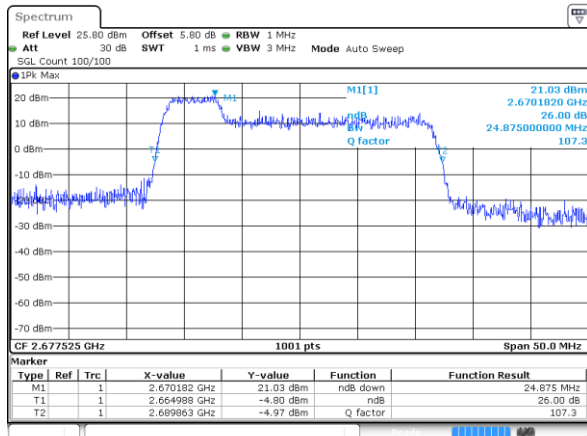
Date: 25 OCT 2019 10:18:14

Middle Channel / 10MHz+15MHz



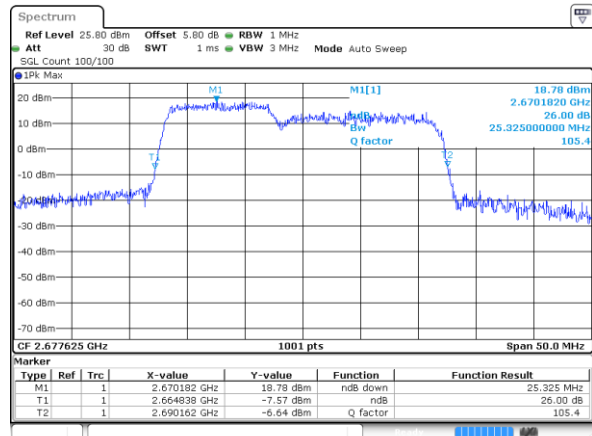
Date: 25 OCT 2019 11:13:12

Highest Channel / 5MHz+20MHz



Date: 25 OCT 2019 10:29:18

Highest Channel / 10MHz+15MHz



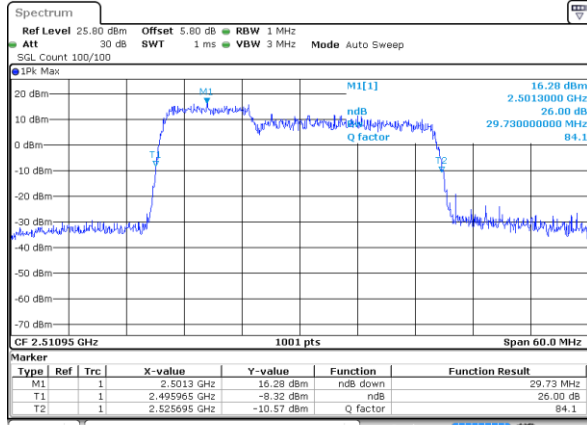
Date: 25 OCT 2019 11:15:22



LTE Band 41

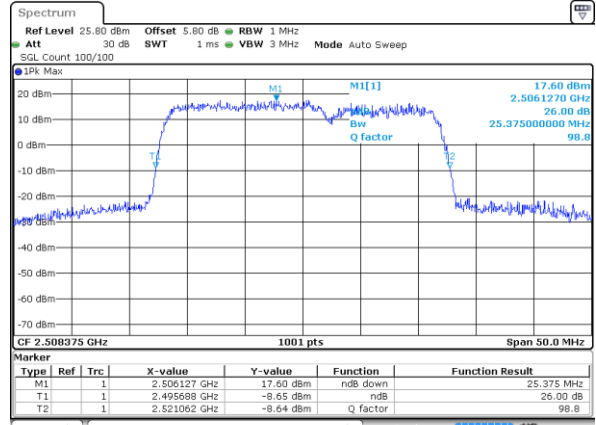
16QAM

Lowest Channel / 10MHz+20MHz



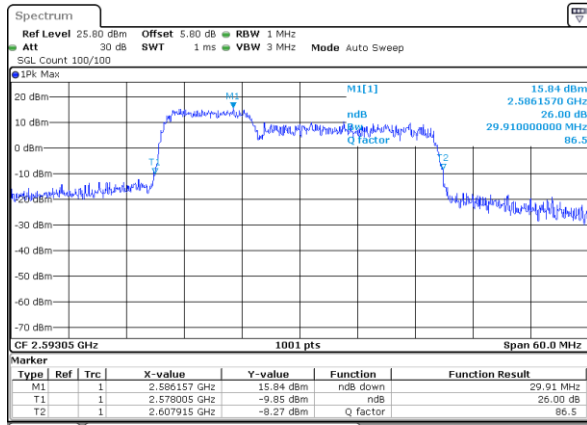
Date: 7 NOV 2019 19:28:51

Lowest Channel / 15MHz+10MHz



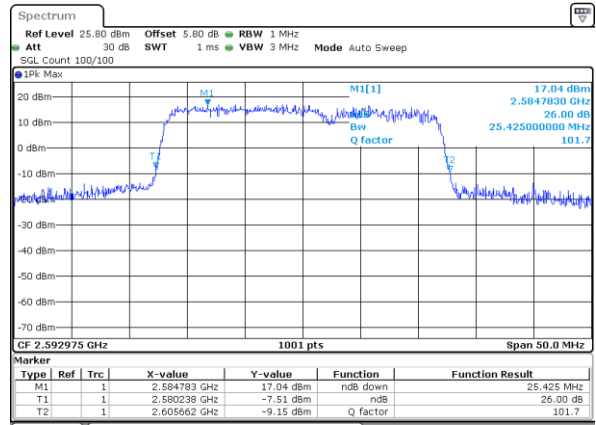
Date: 7 NOV 2019 20:59:38

Middle Channel / 10MHz+20MHz



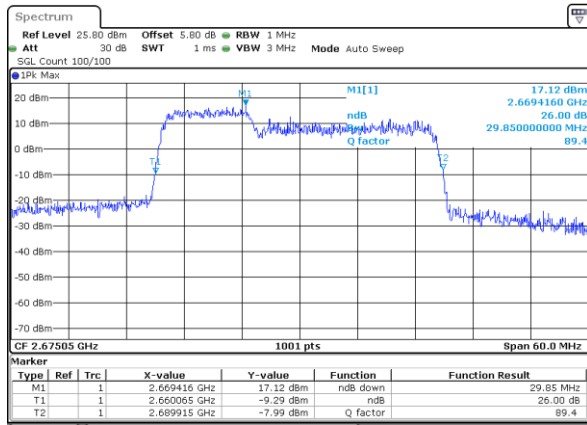
Date: 7 NOV 2019 19:27:08

Middle Channel / 15MHz+10MHz



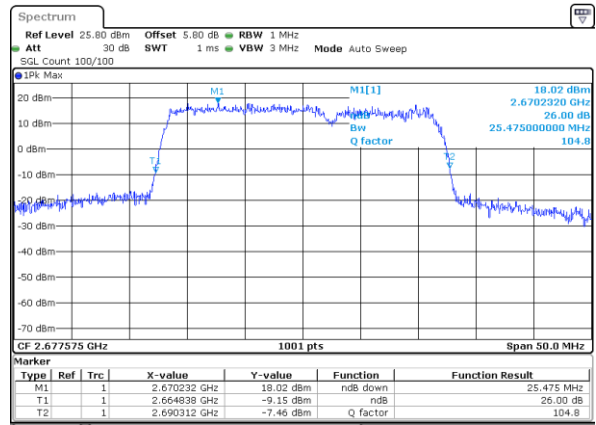
Date: 7 NOV 2019 21:04:51

Highest Channel / 10MHz+20MHz



Date: 7 NOV 2019 19:16:01

Highest Channel / 15MHz+10MHz



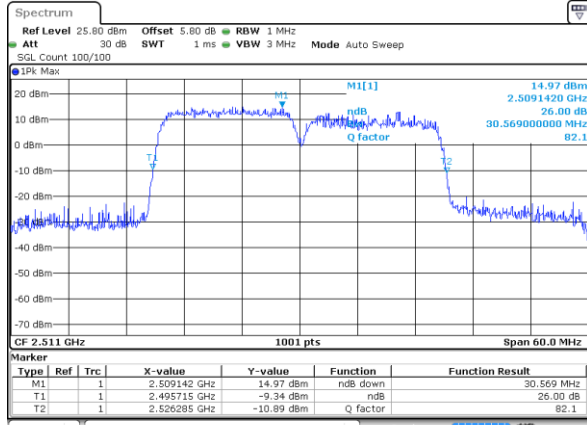
Date: 7 NOV 2019 21:21:51



LTE Band 41

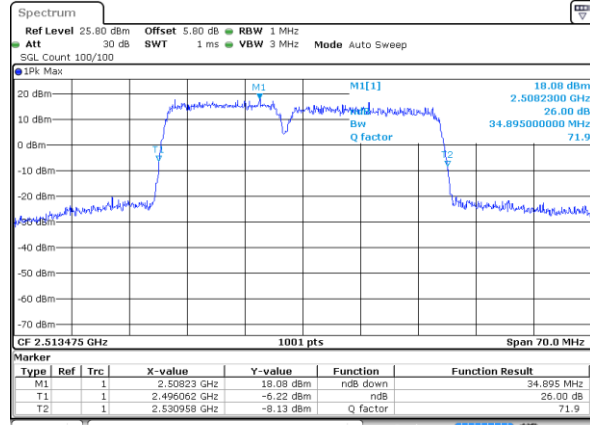
16QAM

Lowest Channel / 15MHz+15MHz



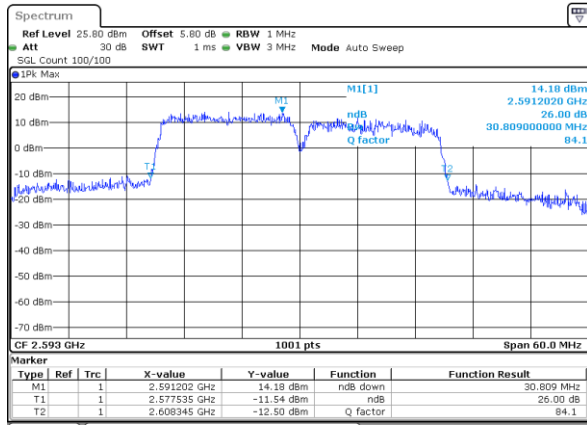
Date: 7 NOV 2019 19:38:13

Lowest Channel / 15MHz+20MHz



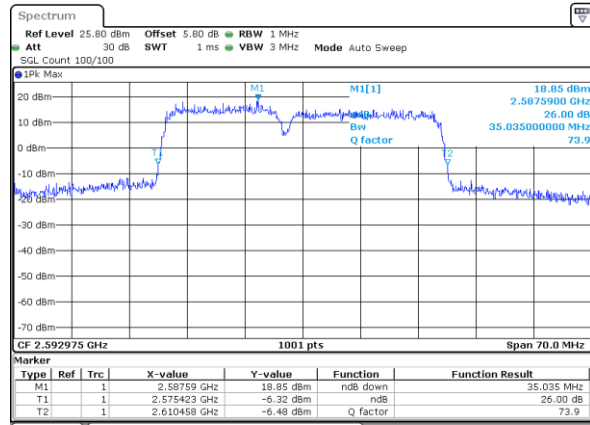
Date: 9 NOV 2019 21:45:17

Middle Channel / 15MHz+15MHz



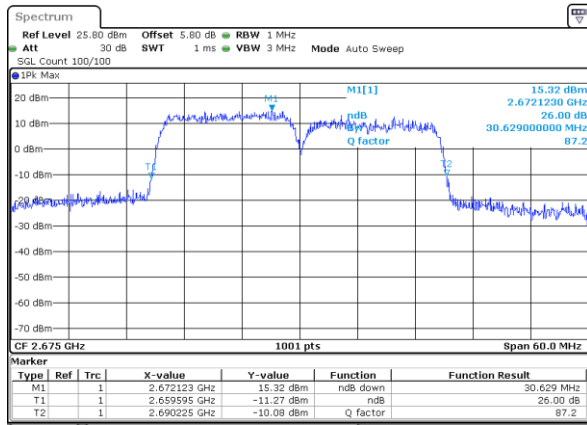
Date: 7 NOV 2019 20:18:20

Middle Channel / 15MHz+20MHz



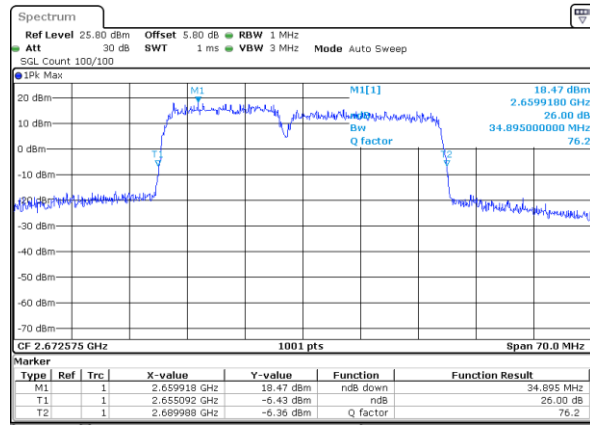
Date: 9 NOV 2019 22:00:54

Highest Channel / 15MHz+15MHz



Date: 7 NOV 2019 20:20:23

Highest Channel / 15MHz+20MHz



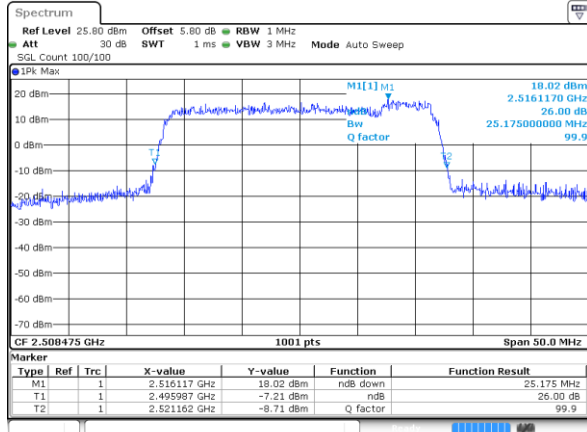
Date: 9 NOV 2019 22:03:39



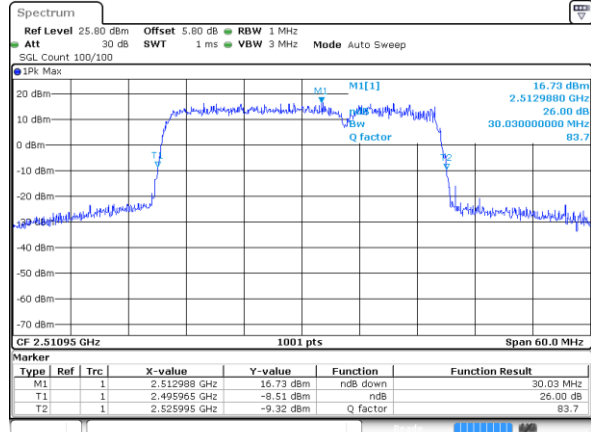
LTE Band 41

16QAM

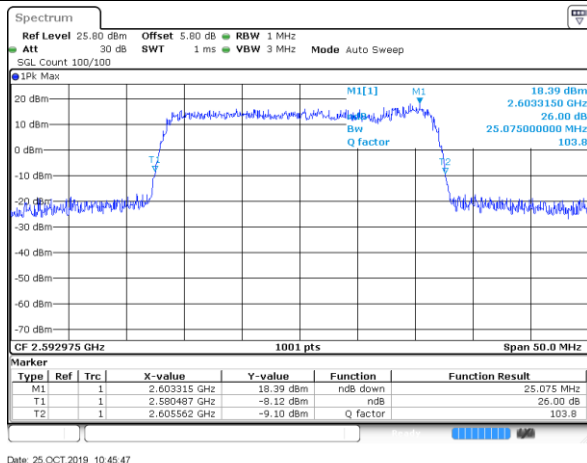
Lowest Channel / 20MHz+5MHz



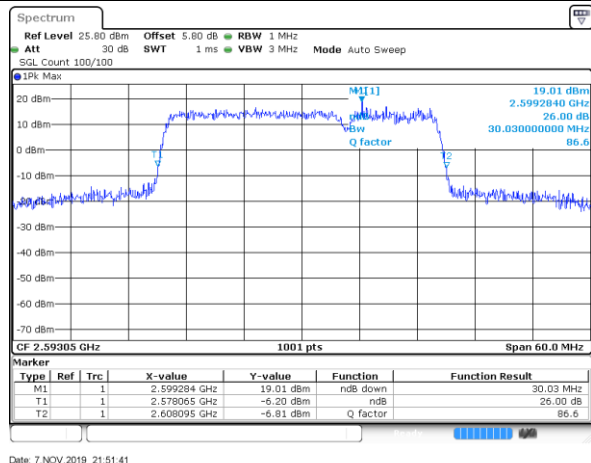
Lowest Channel / 20MHz+10MHz



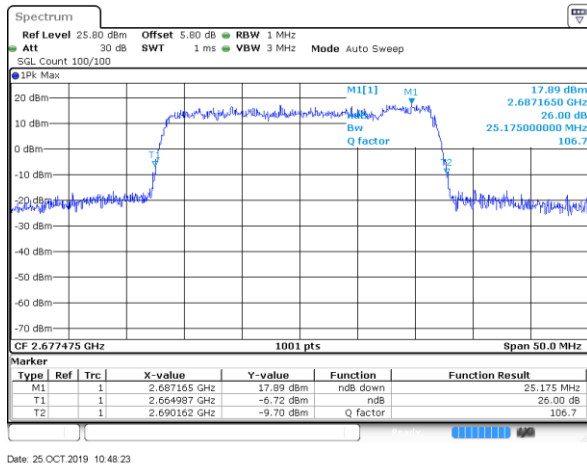
Middle Channel / 20MHz+5MHz



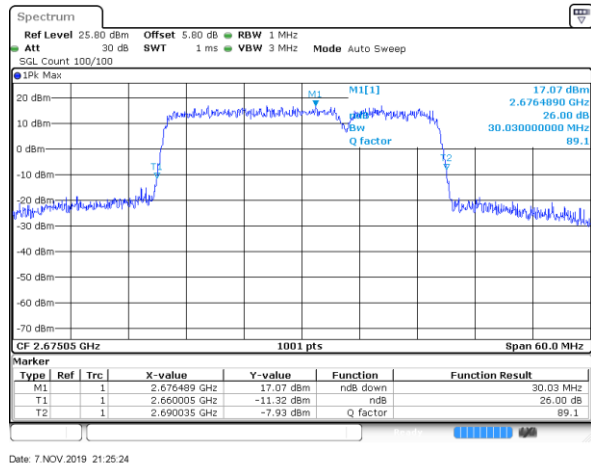
Middle Channel / 20MHz+10MHz



Highest Channel / 20MHz+5MHz



Highest Channel / 20MHz+10MHz

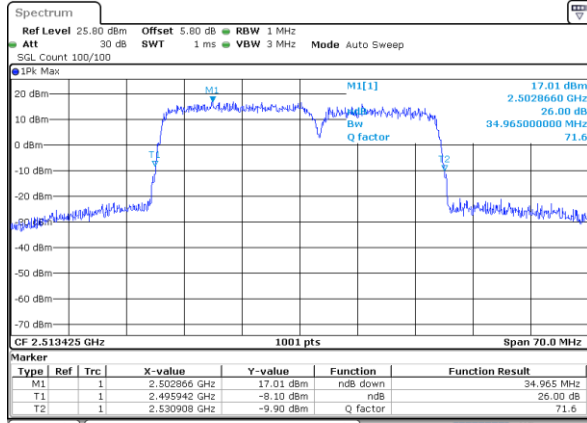




LTE Band 41

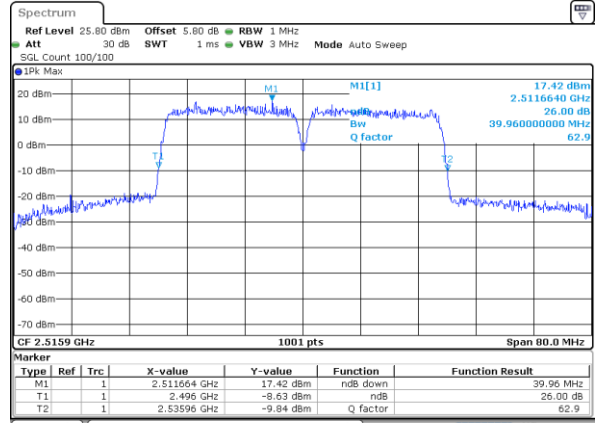
16QAM

Lowest Channel / 20MHz+15MHz



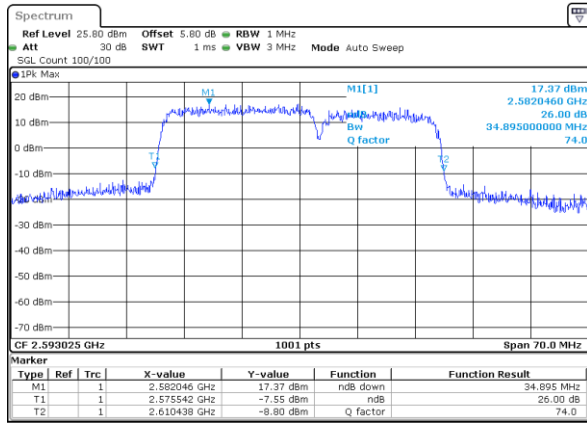
Date: 8 NOV 2019 20:24:30

Lowest Channel / 20MHz+20MHz



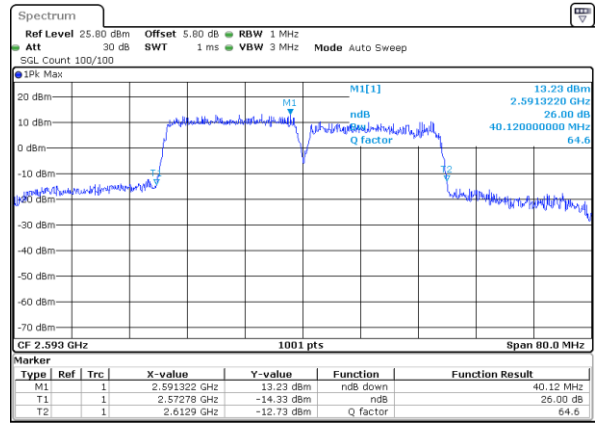
Date: 7 NOV 2019 18:31:17

Middle Channel / 20MHz+15MHz



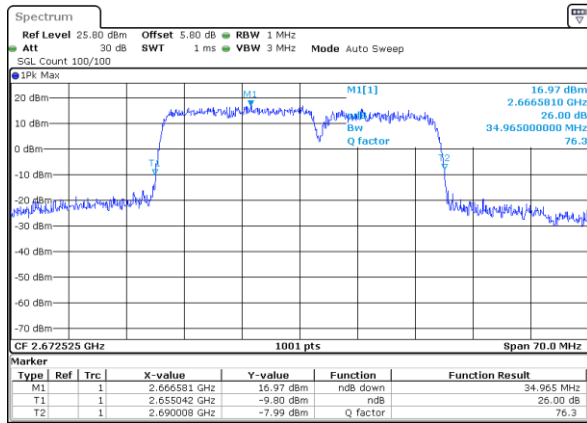
Date: 8 NOV 2019 20:21:24

Middle Channel / 20MHz+20MHz



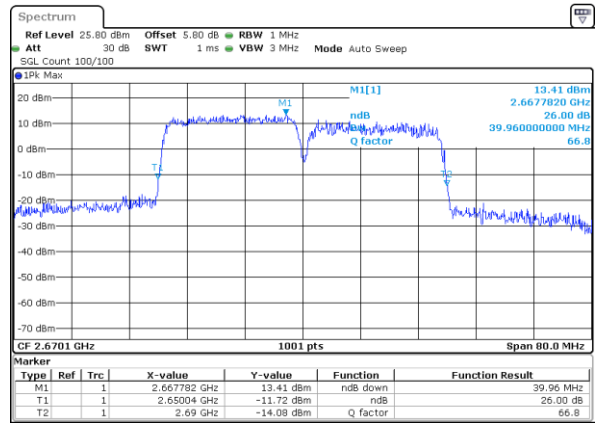
Date: 7 NOV 2019 18:55:46

Highest Channel / 20MHz+15MHz



Date: 8 NOV 2019 20:03:35

Highest Channel / 20MHz+20MHz



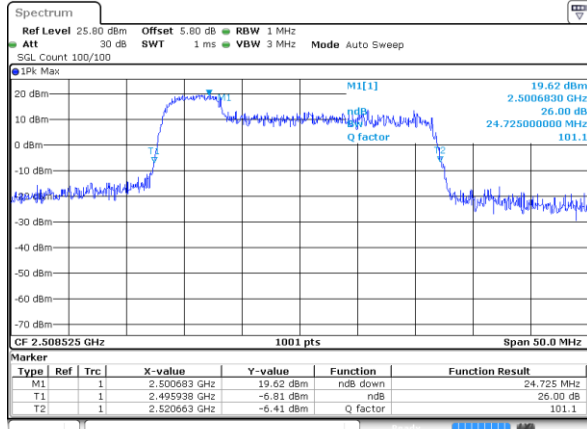
Date: 7 NOV 2019 18:53:42



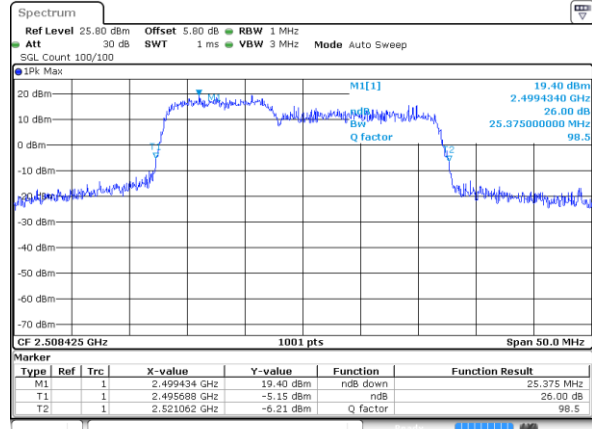
LTE Band 41

64QAM

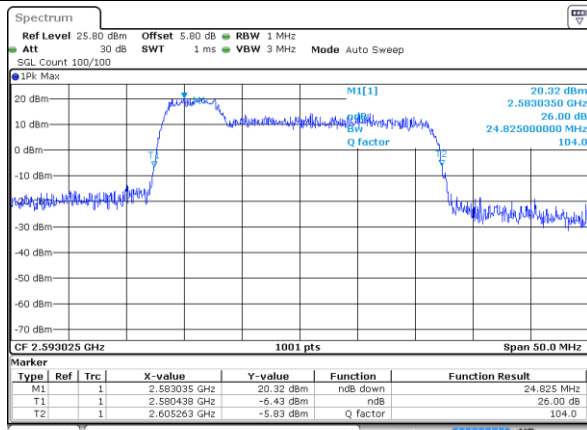
Lowest Channel / 5MHz+20MHz



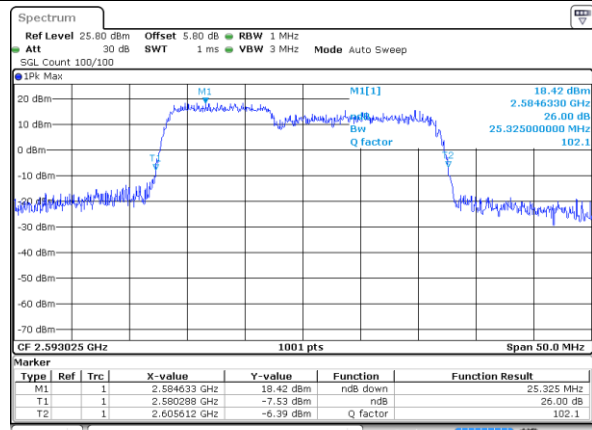
Lowest Channel / 10MHz+15MHz



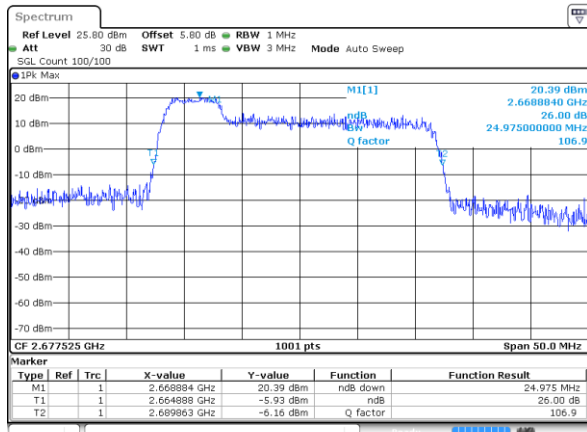
Middle Channel / 5MHz+20MHz



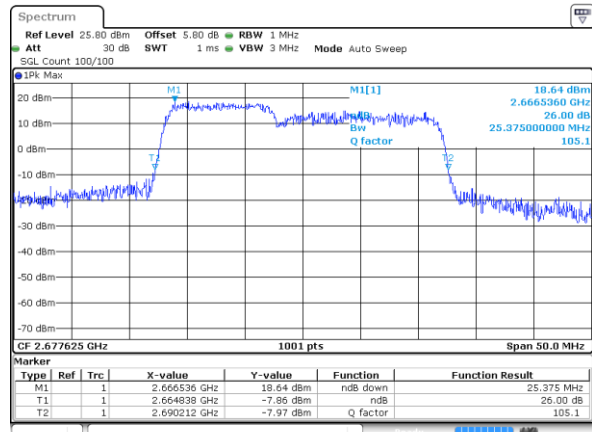
Middle Channel / 10MHz+15MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+15MHz

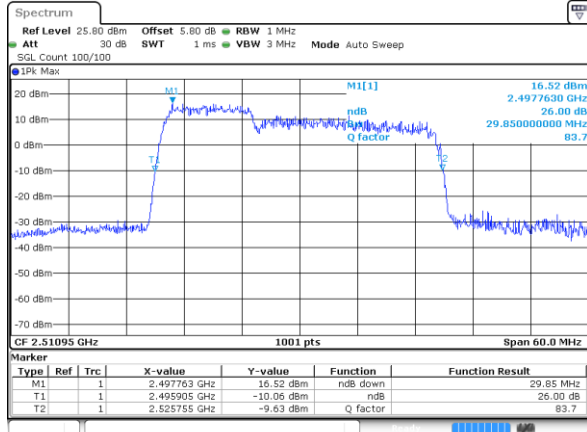




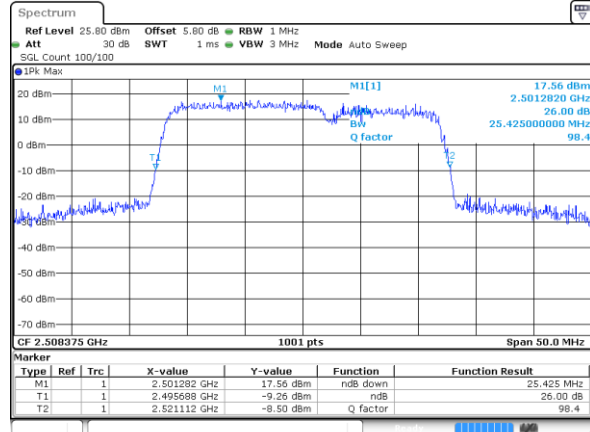
LTE Band 41

64QAM

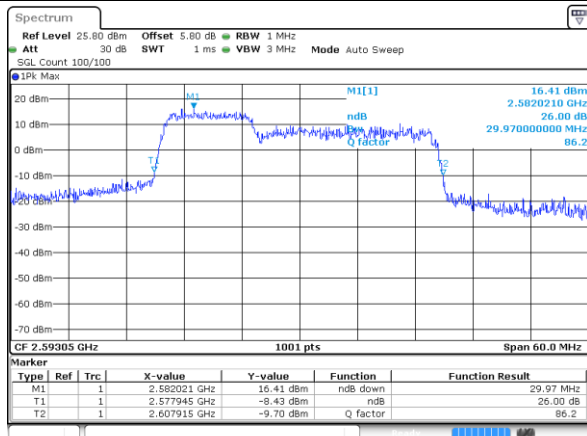
Lowest Channel / 10MHz+20MHz



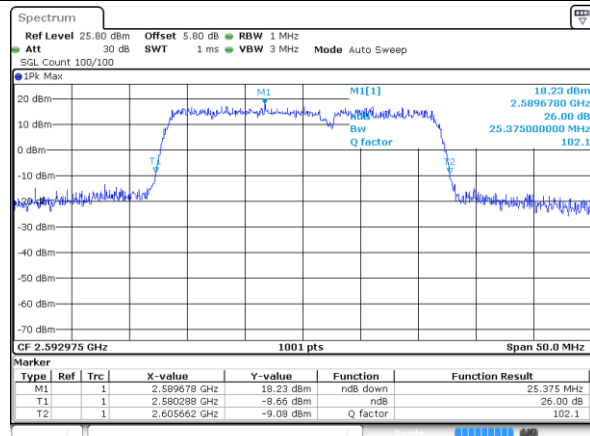
Lowest Channel / 15MHz+10MHz



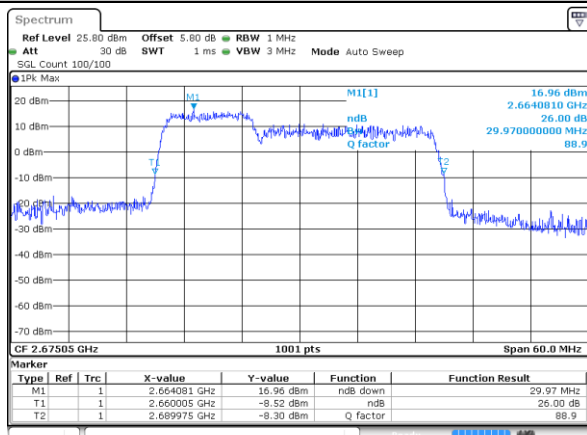
Middle Channel / 10MHz+20MHz



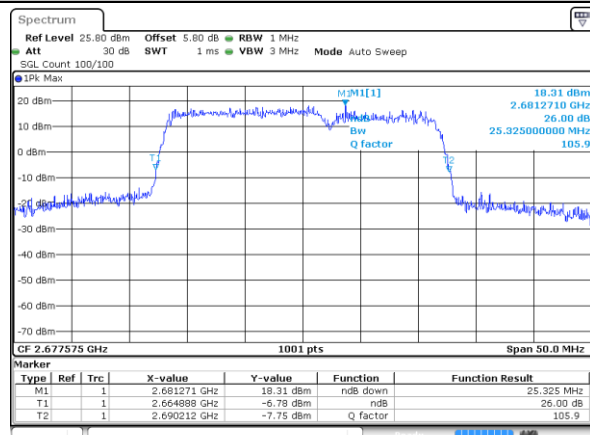
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

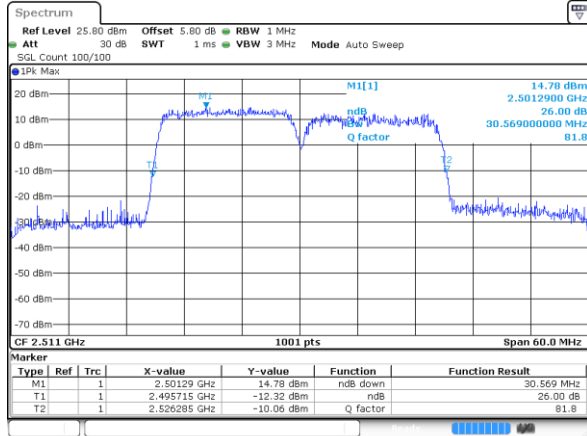




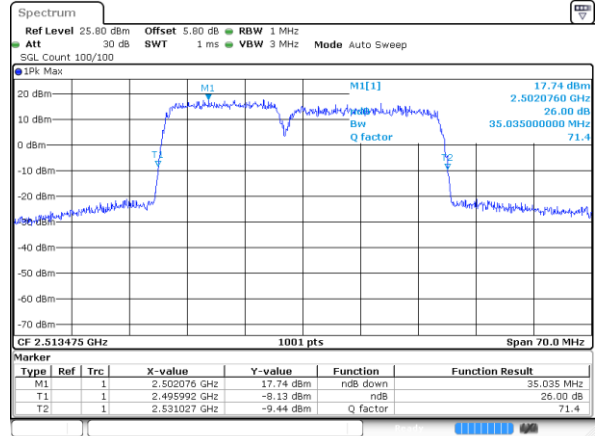
LTE Band 41

64QAM

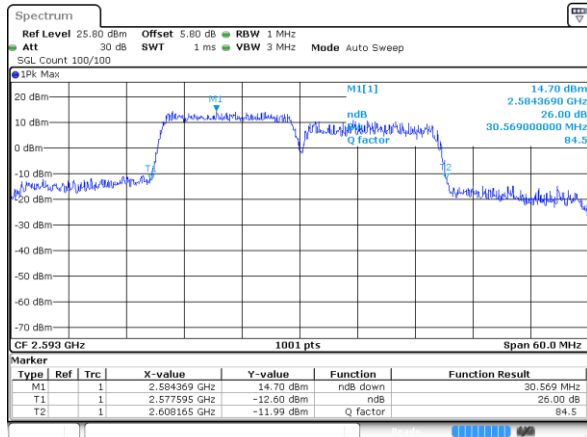
Lowest Channel / 15MHz+15MHz



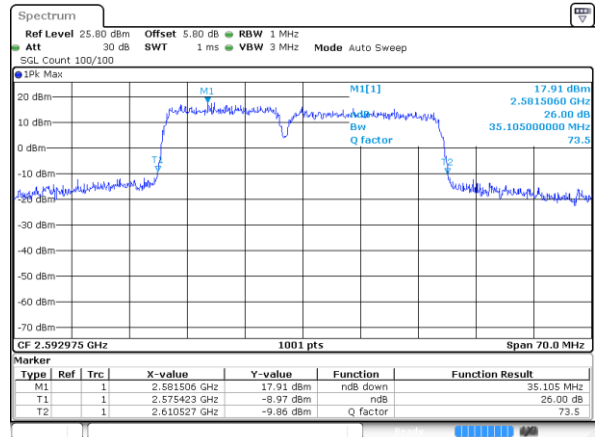
Lowest Channel / 15MHz+20MHz



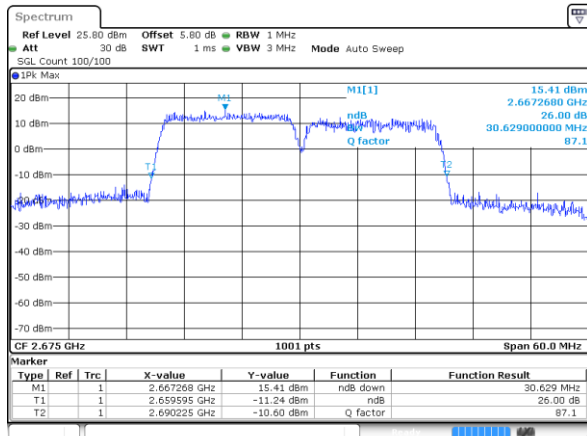
Middle Channel / 15MHz+15MHz



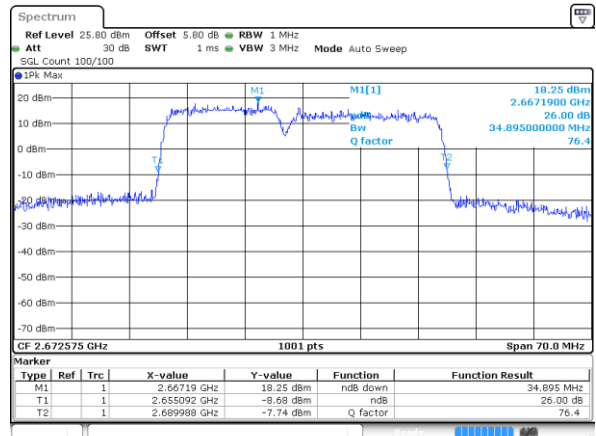
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

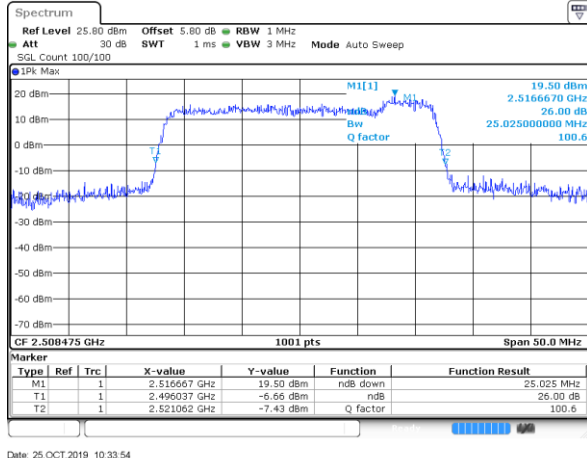




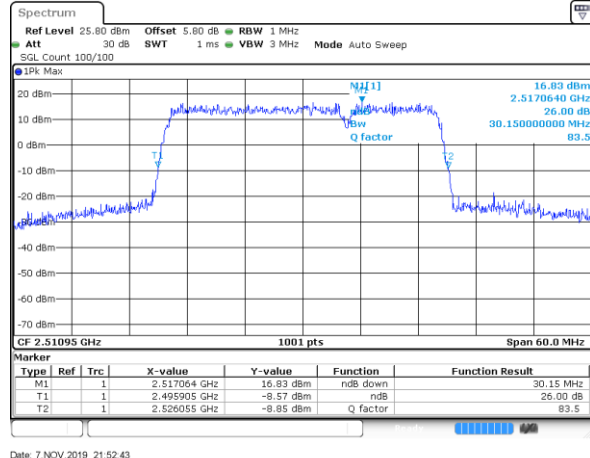
LTE Band 41

64QAM

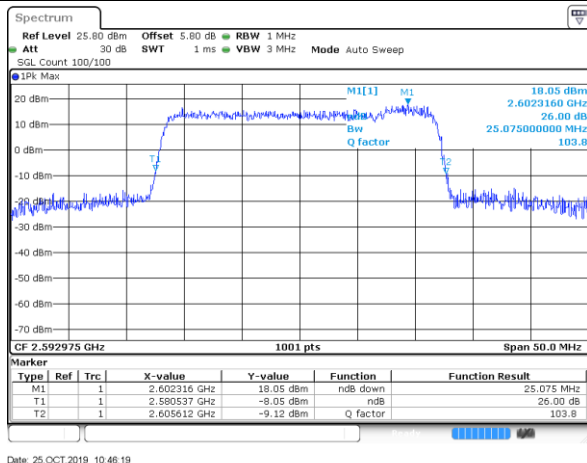
Lowest Channel / 20MHz+5MHz



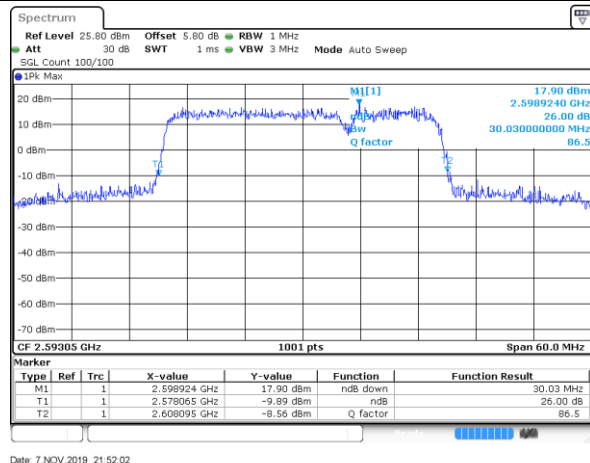
Lowest Channel / 20MHz+10MHz



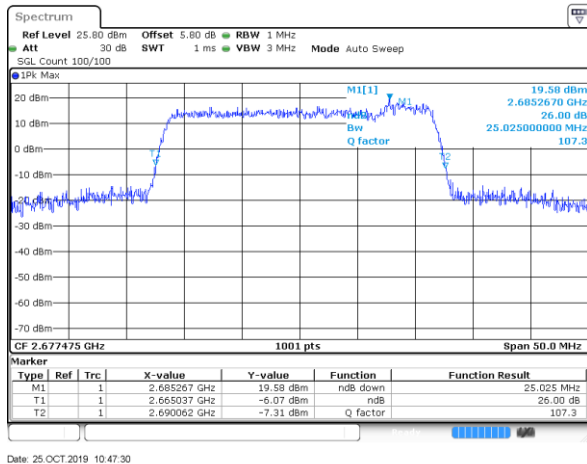
Middle Channel / 20MHz+5MHz



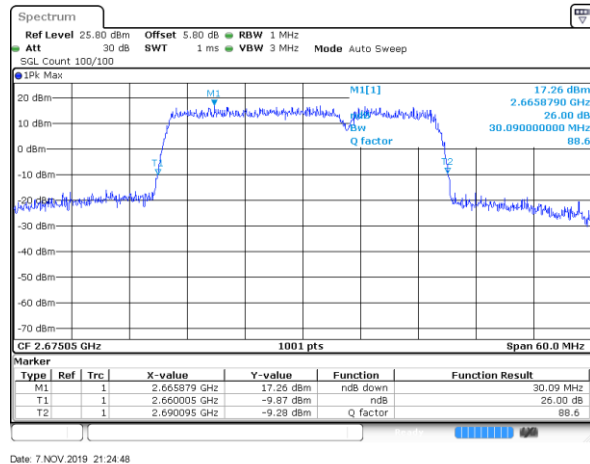
Middle Channel / 20MHz+10MHz



Highest Channel / 20MHz+5MHz



Highest Channel / 20MHz+10MHz

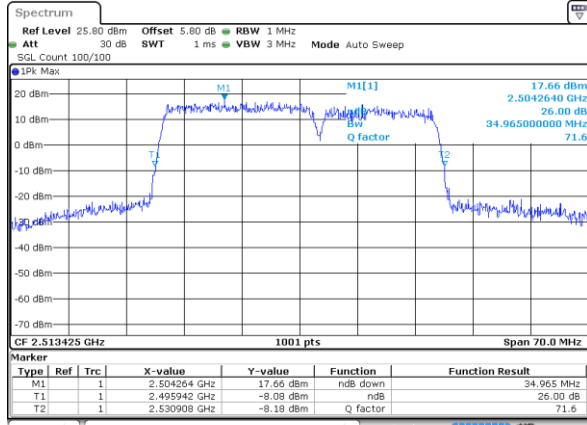




LTE Band 41

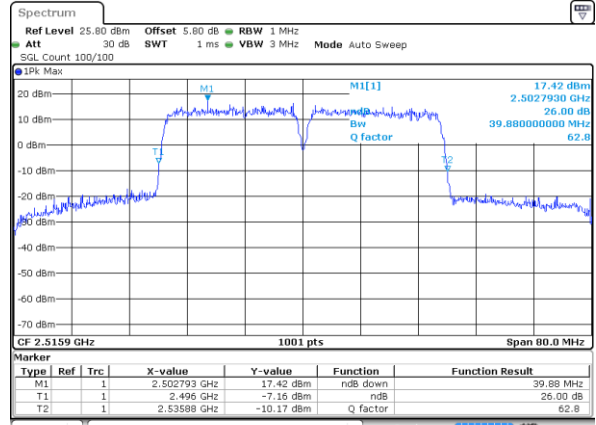
64QAM

Lowest Channel / 20MHz+15MHz



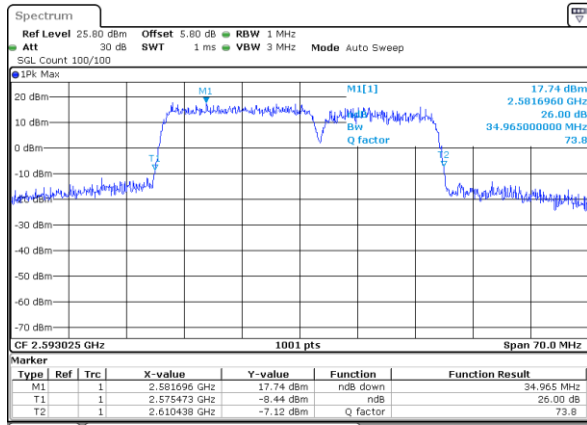
Date: 8 NOV 2019 20:24:03

Lowest Channel / 20MHz+20MHz



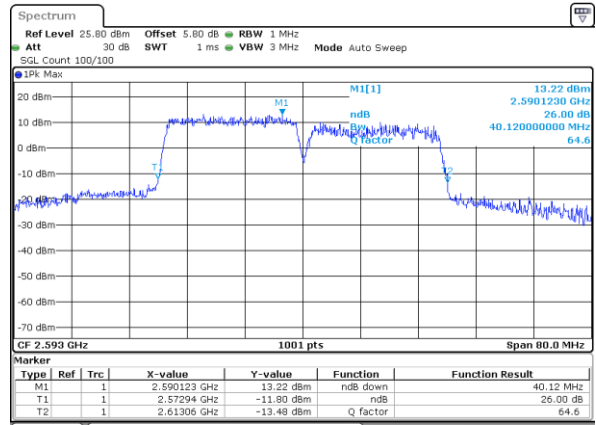
Date: 7 NOV 2019 18:31:42

Middle Channel / 20MHz+15MHz



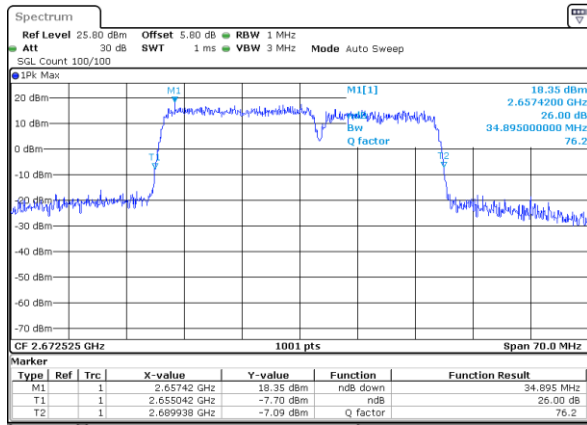
Date: 8 NOV 2019 20:21:47

Middle Channel / 20MHz+20MHz



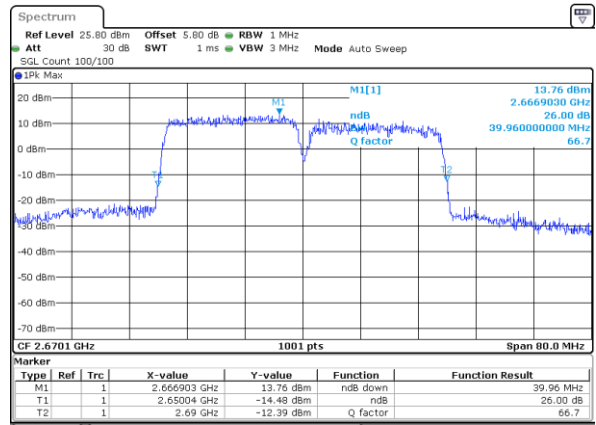
Date: 7 NOV 2019 18:55:23

Highest Channel / 20MHz+15MHz



Date: 8 NOV 2019 20:03:05

Highest Channel / 20MHz+20MHz



Date: 7 NOV 2019 18:54:10



Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.18	23.48	27.69	23.48	28.59
Middle CH	23.13	23.43	28.05	23.43	28.71
Highest CH	23.28	23.43	28.05	23.38	28.59
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.80	23.33	28.05	32.73	37.72
Middle CH	32.94	23.28	27.87	32.87	37.80
Highest CH	32.80	23.33	27.93	32.80	37.72

Mode	LTE Band 41 : 99%OBW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.13	23.38	27.87	23.48	28.41
Middle CH	23.23	23.38	28.05	23.48	28.77
Highest CH	23.23	23.43	27.93	23.48	28.53
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.66	23.28	27.99	32.73	37.72
Middle CH	32.94	23.28	27.99	32.94	37.80
Highest CH	32.87	23.33	28.05	32.66	37.40

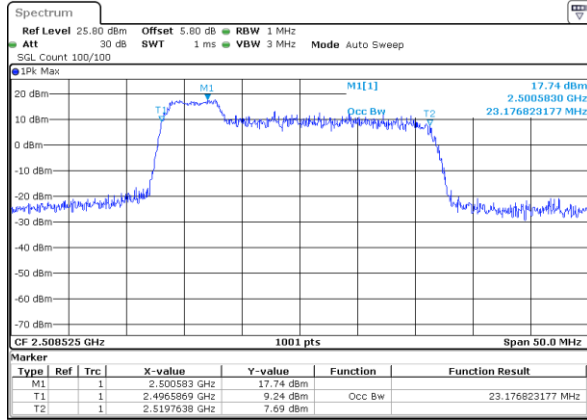
Mode	LTE Band 41 : 99%OBW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.28	23.43	28.05	23.33	28.47
Middle CH	23.08	23.33	27.99	23.38	28.77
Highest CH	23.28	23.43	28.11	23.38	28.41
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	23.28	28.11	32.73	37.72
Middle CH	32.94	23.23	27.99	32.80	37.80
Highest CH	32.80	23.23	28.05	32.73	37.48



LTE Band 41

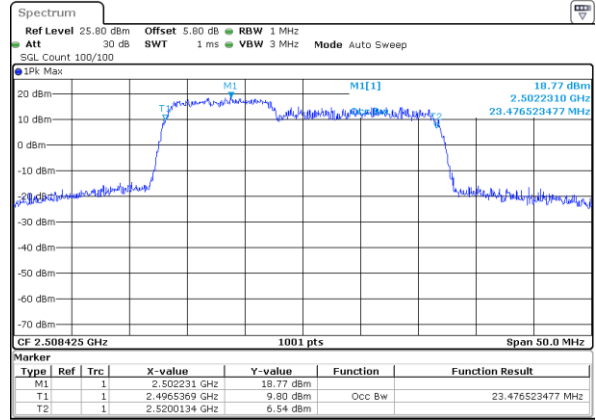
QPSK

Lowest Channel / 5MHz+20MHz



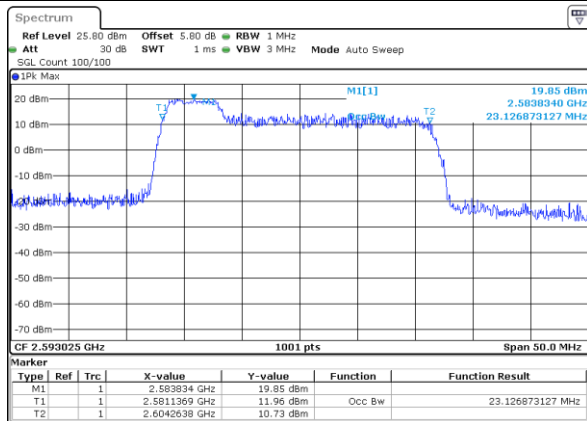
Date: 25 OCT 2019 09:53:40

Lowest Channel / 10MHz+15MHz



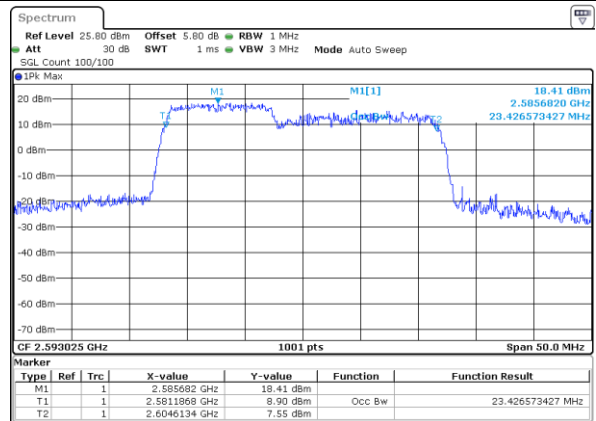
Date: 25 OCT 2019 10:58:00

Middle Channel / 5MHz+20MHz



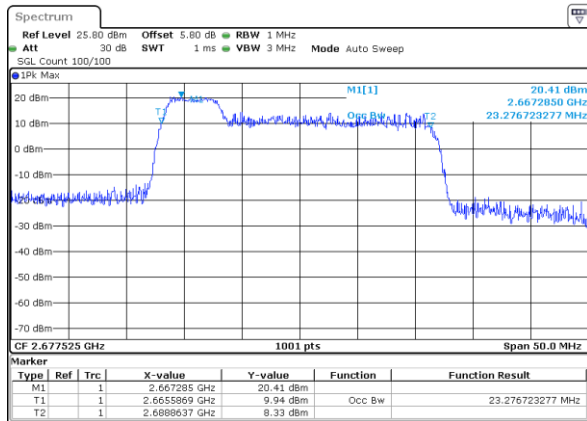
Date: 25 OCT 2019 10:07:52

Middle Channel / 10MHz+15MHz



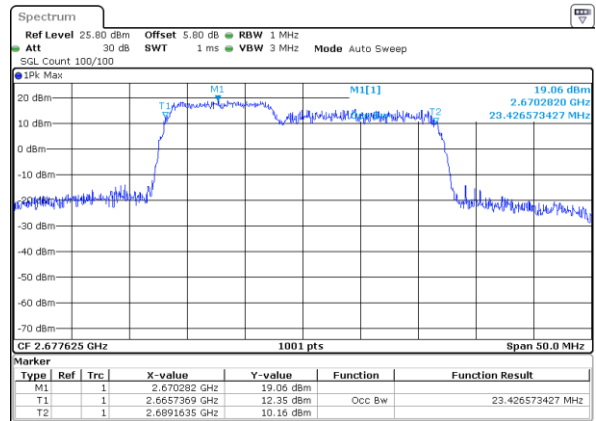
Date: 25 OCT 2019 11:12:41

Highest Channel / 5MHz+20MHz



Date: 25 OCT 2019 10:28:22

Highest Channel / 10MHz+15MHz



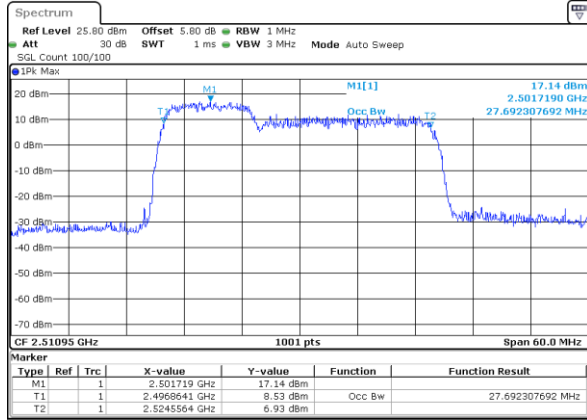
Date: 25 OCT 2019 11:16:23



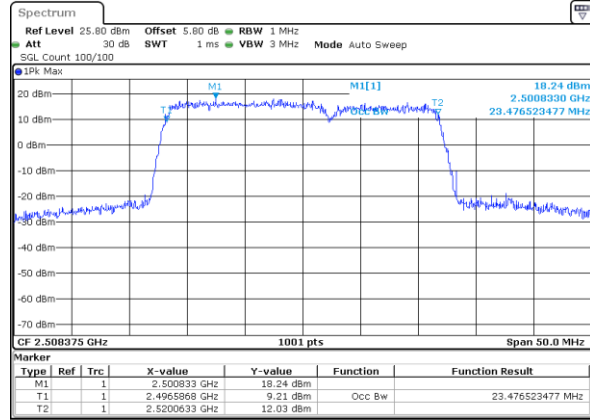
LTE Band 41

QPSK

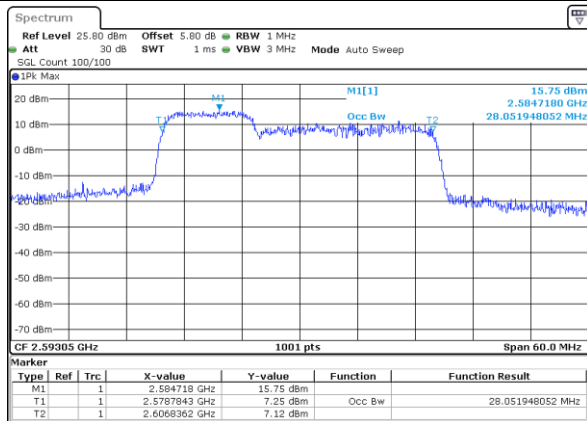
Lowest Channel / 10MHz+20MHz



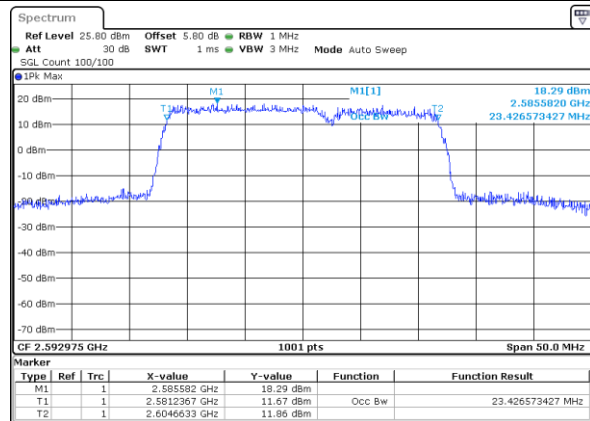
Lowest Channel / 15MHz+10MHz



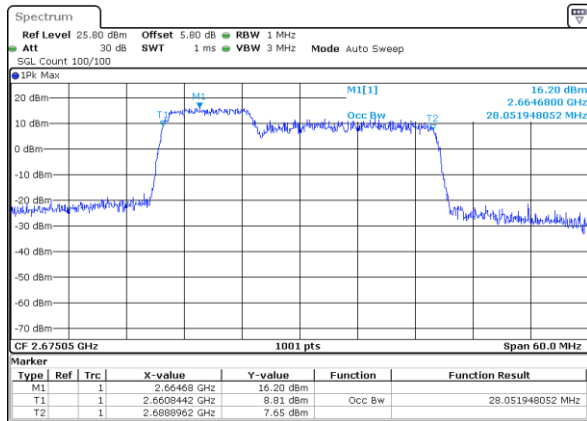
Middle Channel / 10MHz+20MHz



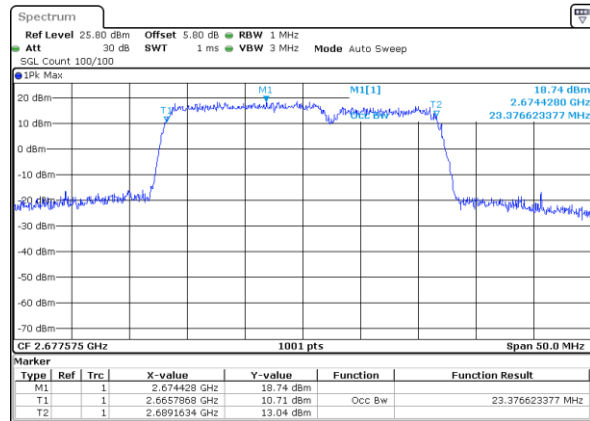
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

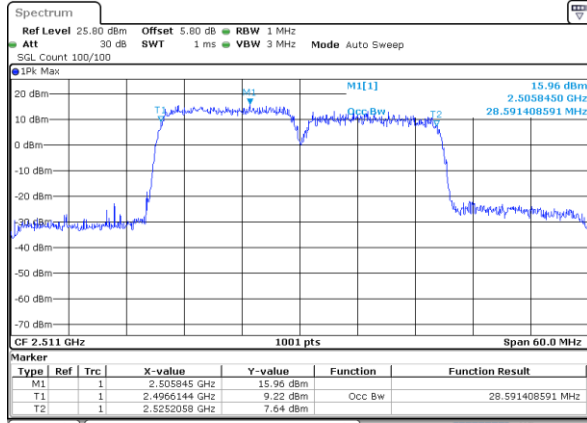




LTE Band 41

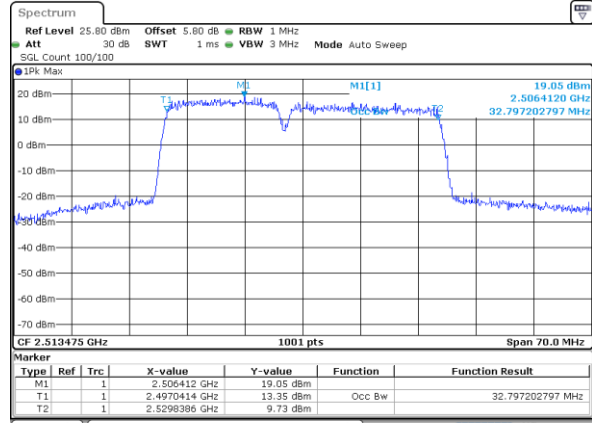
QPSK

Lowest Channel / 15MHz+15MHz



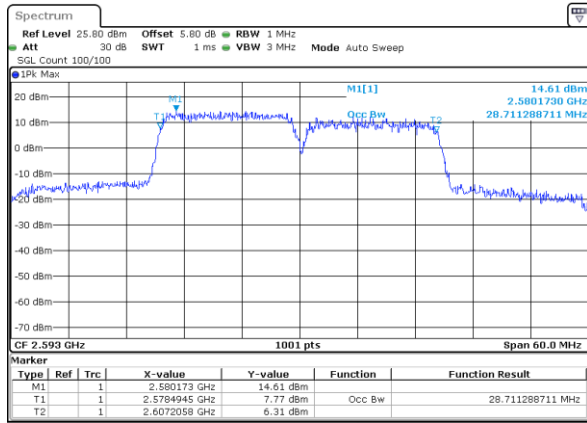
Date: 7 NOV 2019 19:37:45

Lowest Channel / 15MHz+20MHz



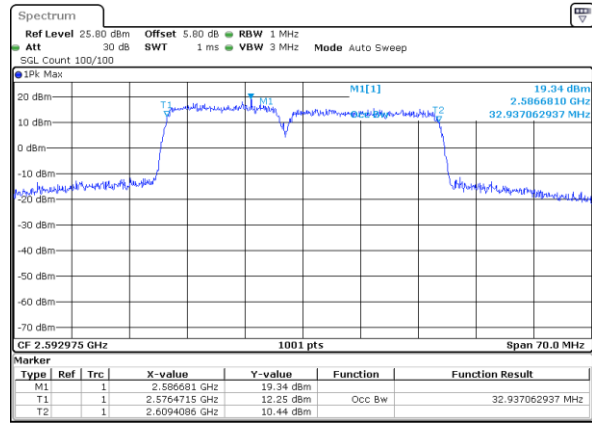
Date: 9 NOV 2019 21:44:42

Middle Channel / 15MHz+15MHz



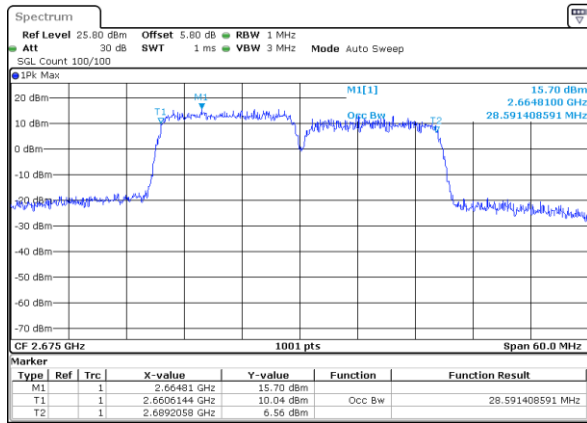
Date: 7 NOV 2019 20:17:57

Middle Channel / 15MHz+20MHz



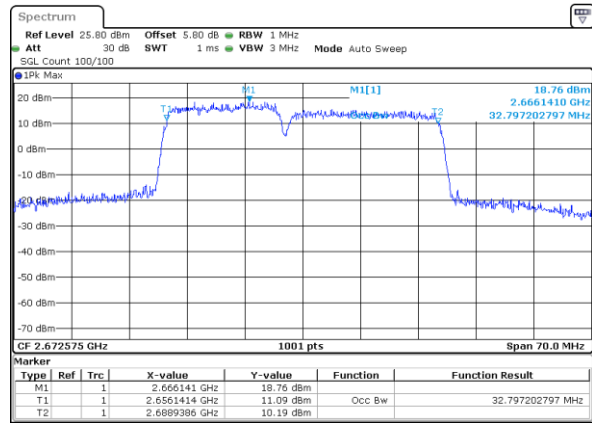
Date: 9 NOV 2019 22:01:35

Highest Channel / 15MHz+15MHz



Date: 7 NOV 2019 20:21:05

Highest Channel / 15MHz+20MHz



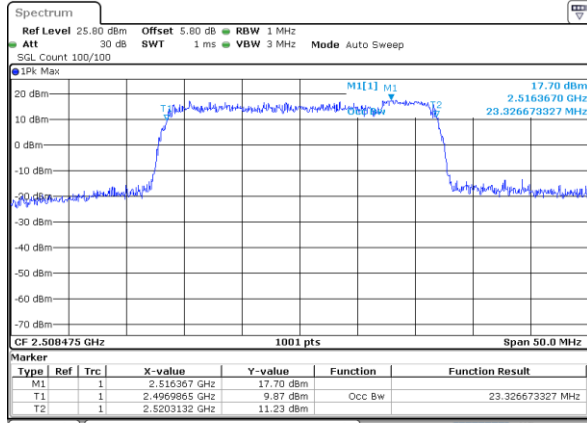
Date: 9 NOV 2019 22:02:50



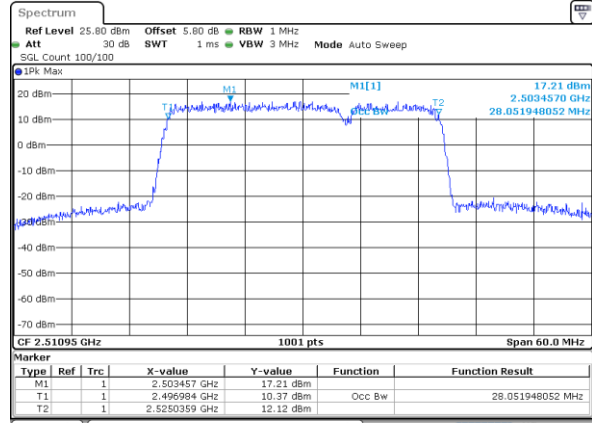
LTE Band 41

QPSK

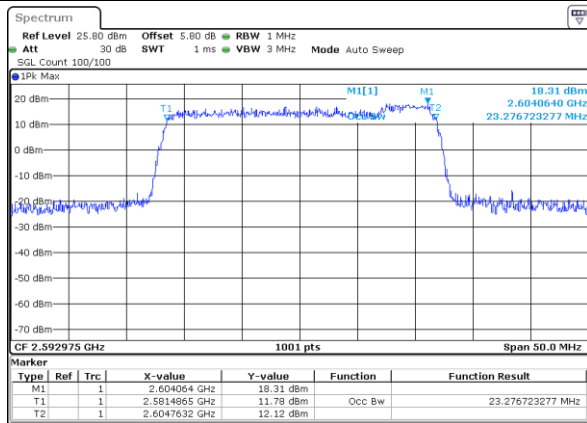
Lowest Channel / 20MHz+5MHz



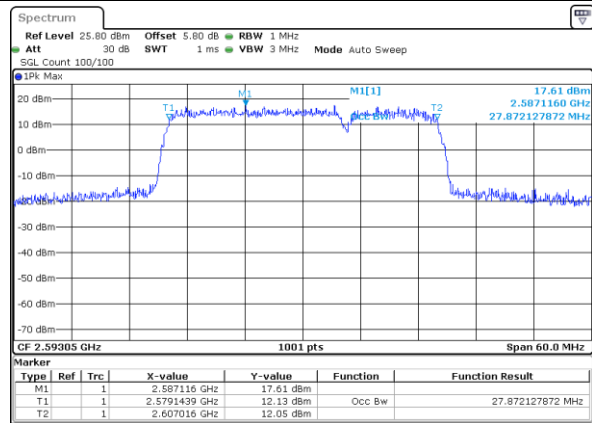
Lowest Channel / 20MHz+10MHz



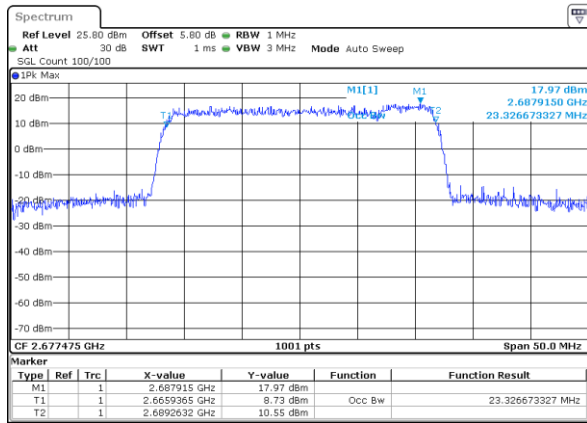
Middle Channel / 20MHz+5MHz



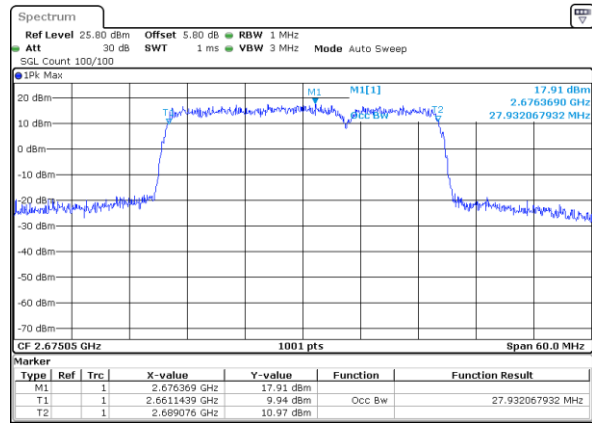
Middle Channel / 20MHz+10MHz



Highest Channel / 20MHz+5MHz



Highest Channel / 20MHz+10MHz

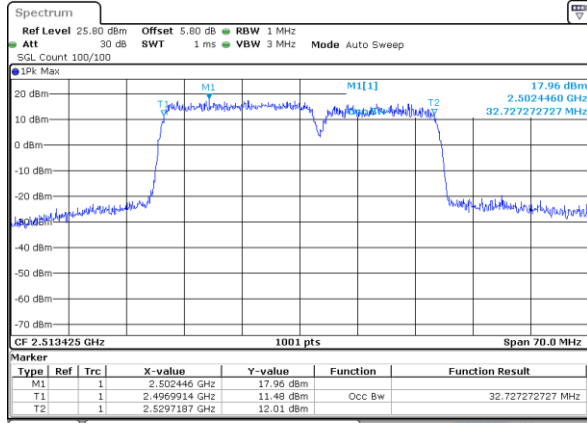




LTE Band 41

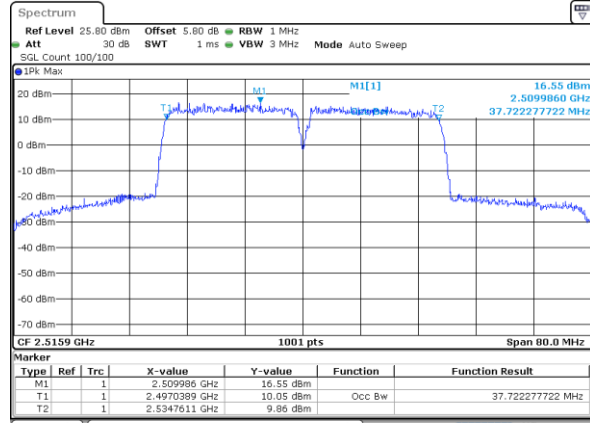
QPSK

Lowest Channel / 20MHz+15MHz



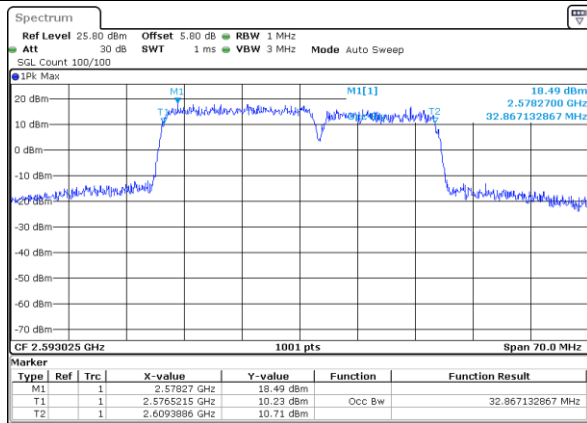
Date: 8 NOV 2019 20:24:54

Lowest Channel / 20MHz+20MHz



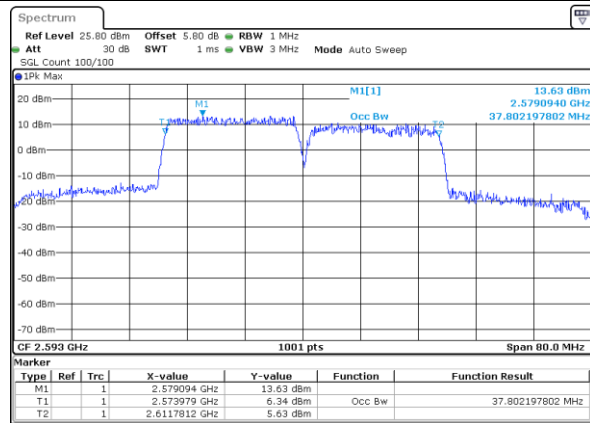
Date: 7 NOV 2019 18:30:24

Middle Channel / 20MHz+15MHz



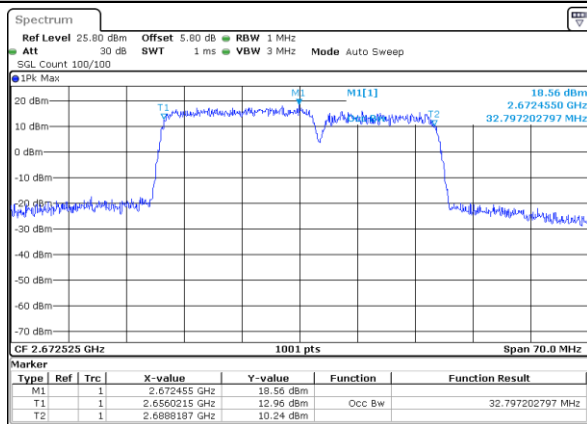
Date: 8 NOV 2019 20:20:48

Middle Channel / 20MHz+20MHz



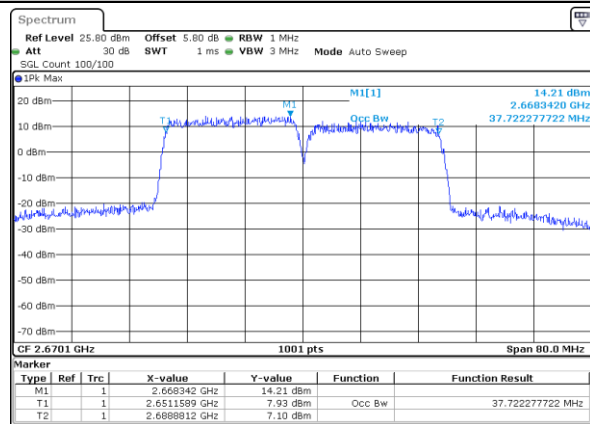
Date: 7 NOV 2019 18:56:00

Highest Channel / 20MHz+15MHz



Date: 8 NOV 2019 20:03:56

Highest Channel / 20MHz+20MHz



Date: 7 NOV 2019 18:52:49