





Frequency Stability

Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0045	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41C

26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.88	24.68	29.37	25.23	30.57
Middle CH	24.88	24.83	29.49	25.28	30.63
Highest CH	24.78	24.73	29.55	25.08	30.45
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.76	24.88	29.97	35.11	39.80
Middle CH	34.83	24.93	30.15	34.83	39.64
Highest CH	34.83	24.88	29.97	34.97	39.80

Mode	LTE Band 41 : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.78	24.48	29.25	24.93	30.51
Middle CH	24.68	24.58	29.43	25.18	30.39
Highest CH	24.78	24.53	29.43	25.23	30.57
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.90	24.78	29.97	34.97	39.88
Middle CH	34.90	24.93	30.03	34.76	39.80
Highest CH	34.76	24.88	30.09	34.83	39.56

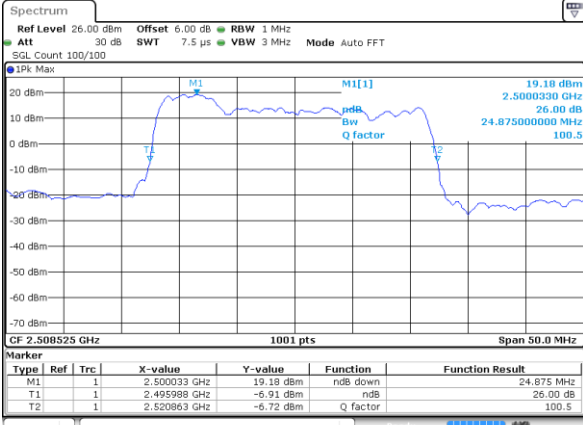
Mode	LTE Band 41 : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.68	25.28	30.03	25.08	30.51
Middle CH	24.78	25.23	29.97	25.23	30.51
Highest CH	24.78	25.33	29.97	25.13	30.39
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.83	24.83	29.97	34.90	39.64
Middle CH	34.76	25.03	29.97	34.69	39.96
Highest CH	34.90	24.83	29.97	34.83	39.72



LTE Band 41

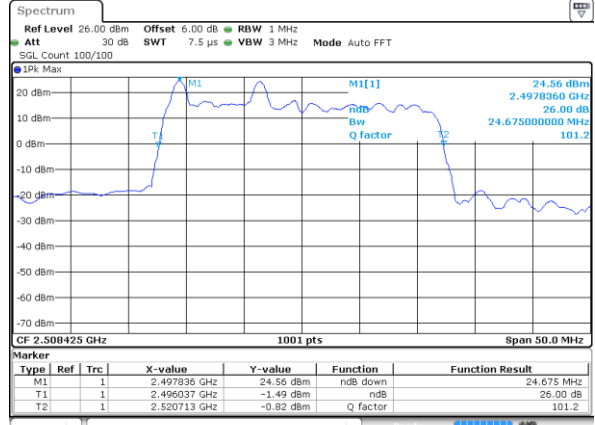
QPSK

Lowest Channel / 5MHz+20MHz



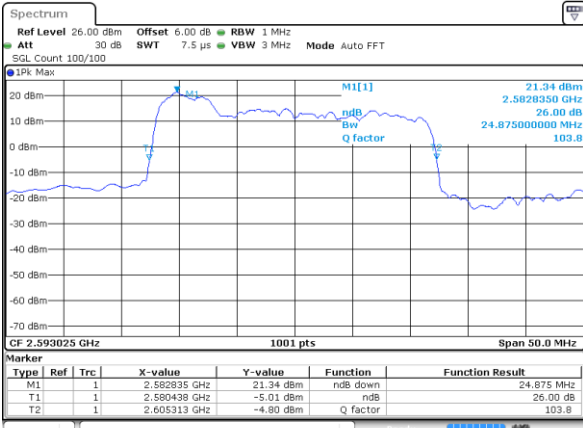
Date: 15 MAY 2020 13:14:39

Lowest Channel / 10MHz+15MHz



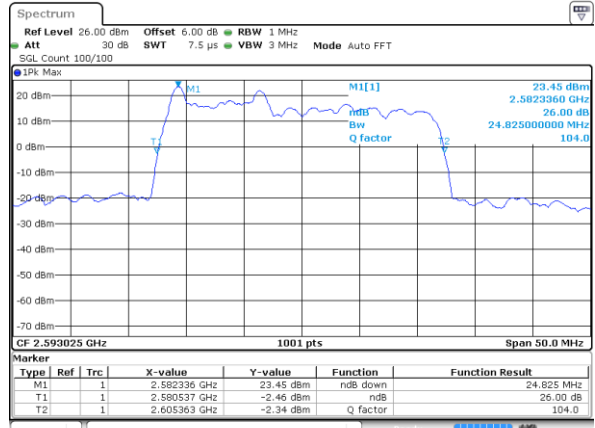
Date: 15 MAY 2020 15:47:18

Middle Channel / 5MHz+20MHz



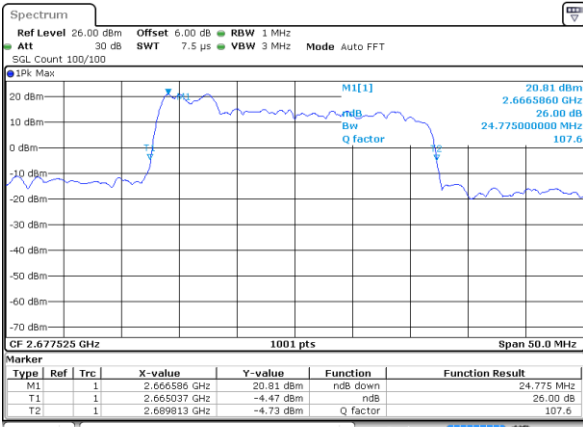
Date: 15 MAY 2020 14:37:28

Middle Channel / 10MHz+15MHz



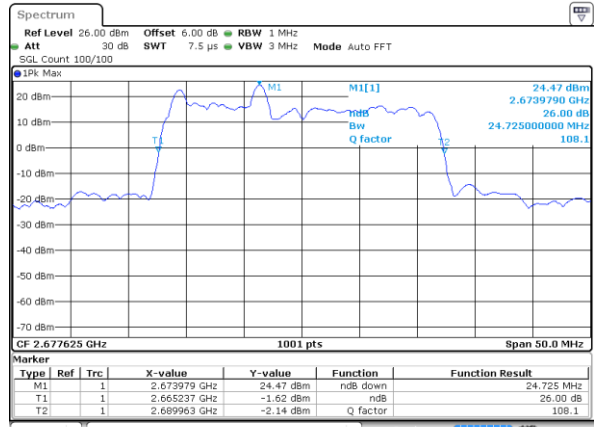
Date: 15 MAY 2020 15:53:00

Highest Channel / 5MHz+20MHz



Date: 15 MAY 2020 14:42:43

Highest Channel / 10MHz+15MHz



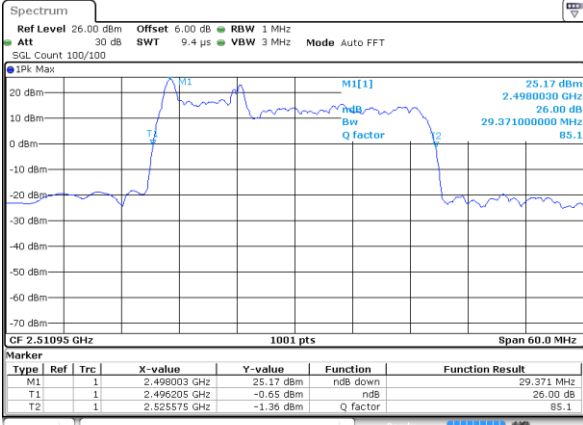
Date: 15 MAY 2020 15:59:30



LTE Band 41

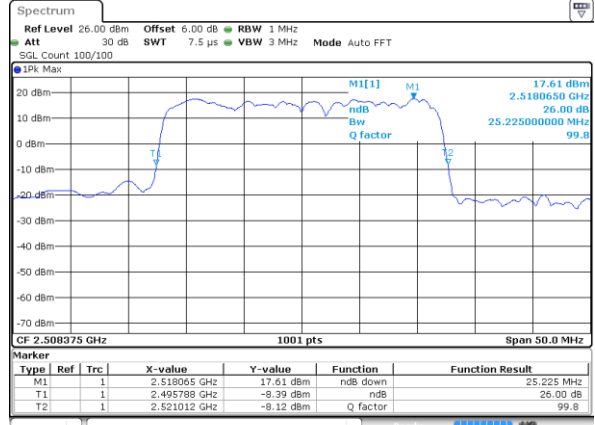
QPSK

Lowest Channel / 10MHz+20MHz



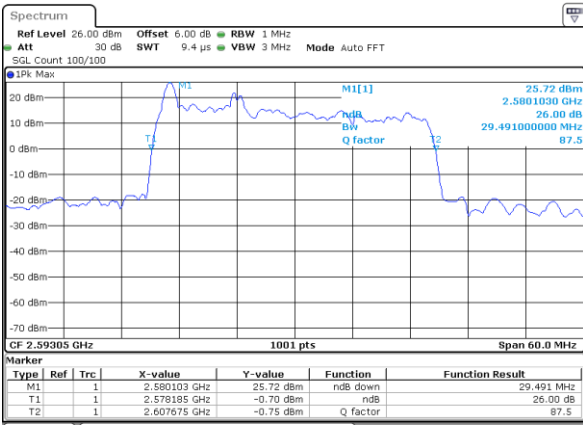
Date: 15 MAY 2020 17:00:55

Lowest Channel / 15MHz+10MHz



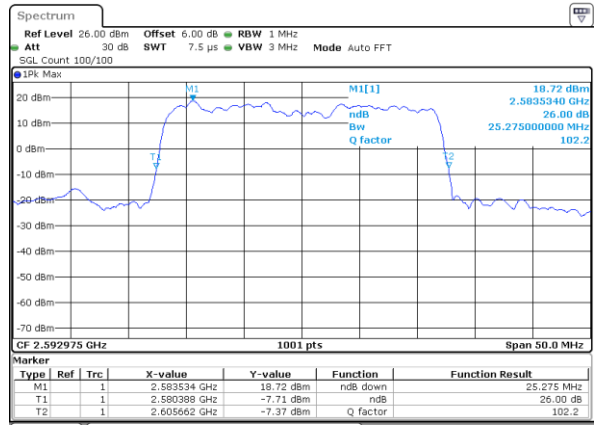
Date: 15 MAY 2020 16:05:15

Middle Channel / 10MHz+20MHz



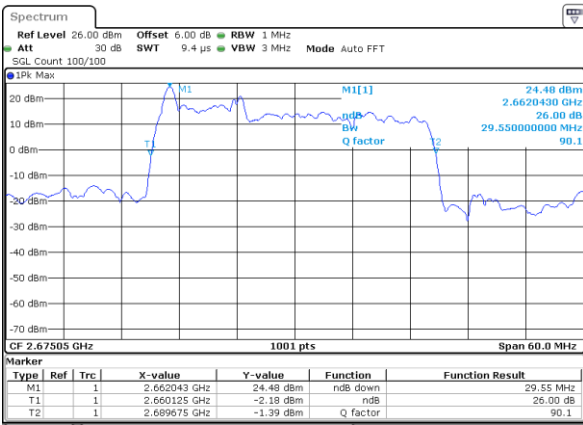
Date: 15 MAY 2020 17:06:31

Middle Channel / 15MHz+10MHz



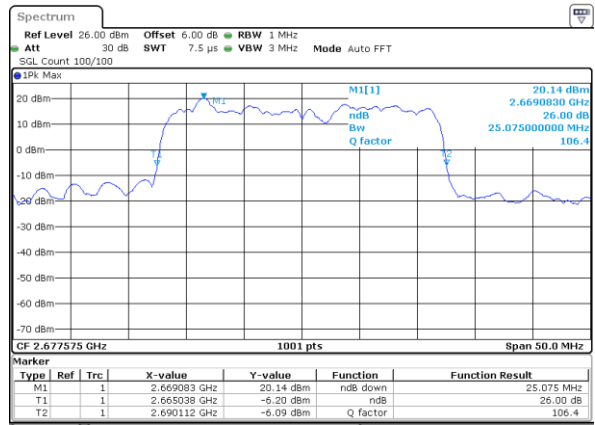
Date: 15 MAY 2020 16:10:00

Highest Channel / 10MHz+20MHz



Date: 15 MAY 2020 17:11:31

Highest Channel / 15MHz+10MHz



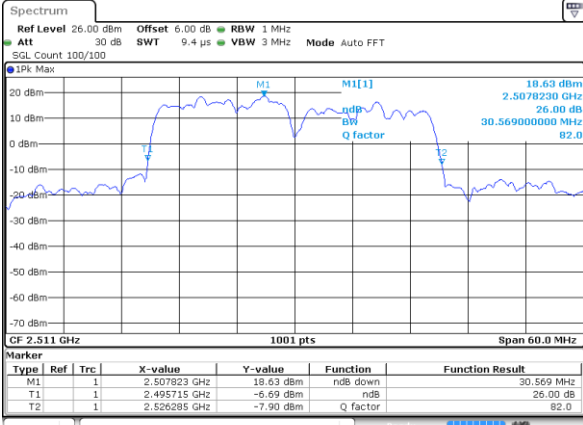
Date: 15 MAY 2020 16:15:31



LTE Band 41

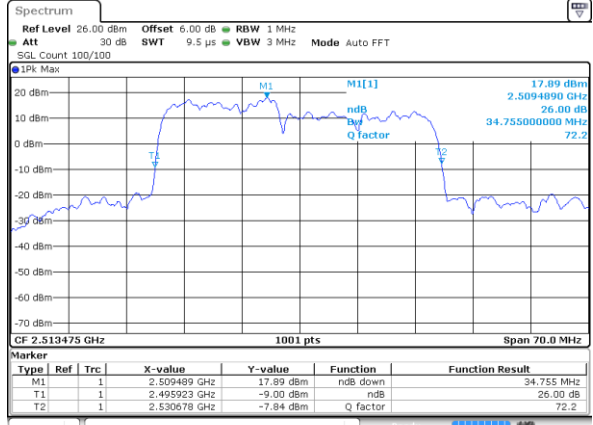
QPSK

Lowest Channel / 15MHz+15MHz



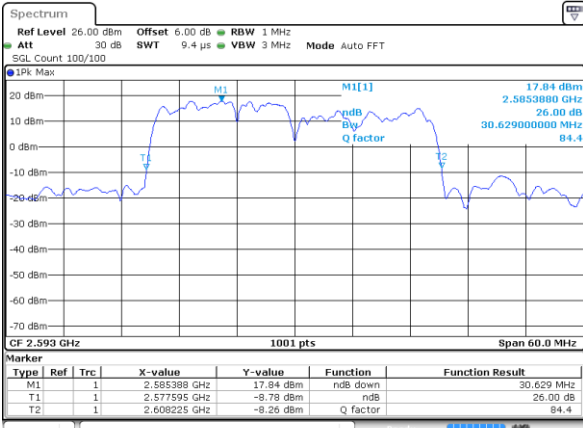
Date: 16 MAY 2020 13:51:48

Lowest Channel / 15MHz+20MHz



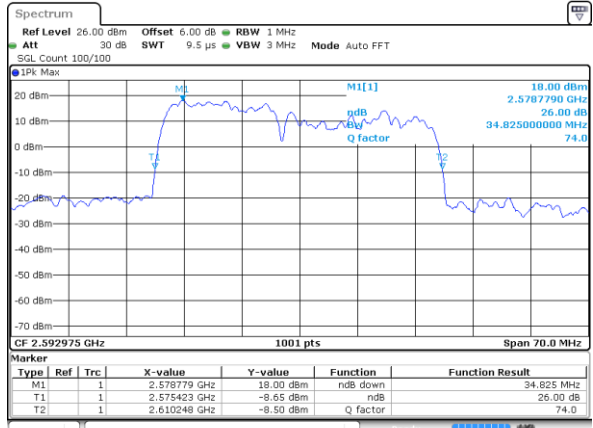
Date: 16 MAY 2020 14:11:22

Middle Channel / 15MHz+15MHz



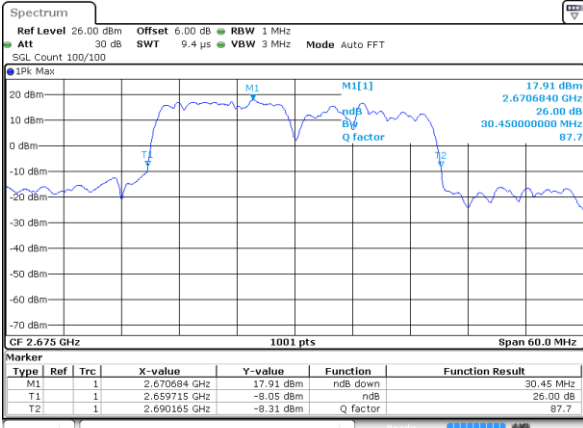
Date: 16 MAY 2020 13:58:23

Middle Channel / 15MHz+20MHz



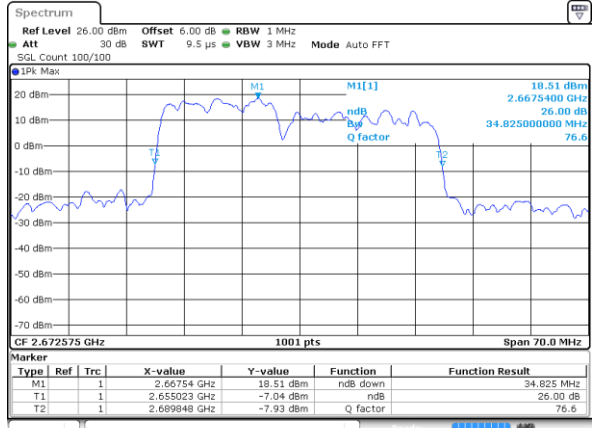
Date: 16 MAY 2020 14:21:21

Highest Channel / 15MHz+15MHz



Date: 16 MAY 2020 14:02:50

Highest Channel / 15MHz+20MHz



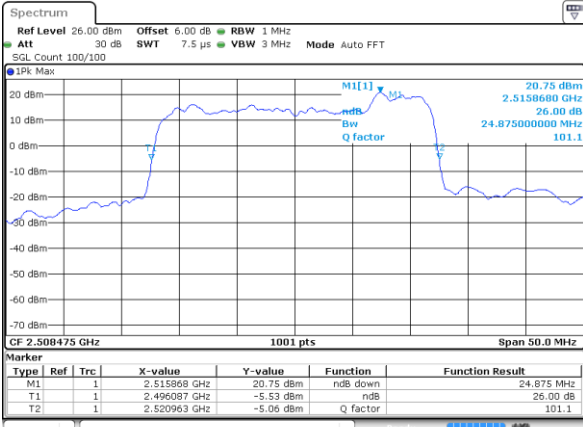
Date: 16 MAY 2020 14:26:13



LTE Band 41

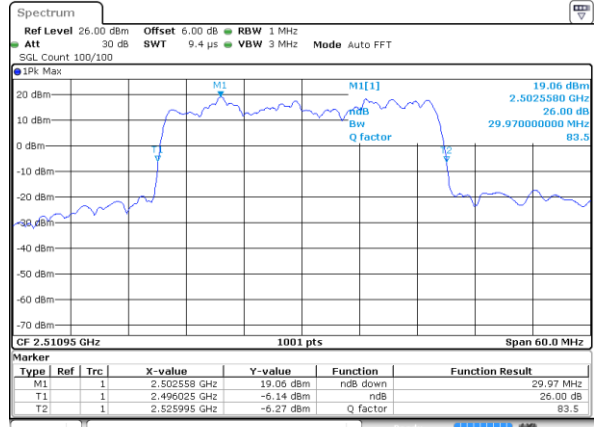
QPSK

Lowest Channel / 20MHz+5MHz



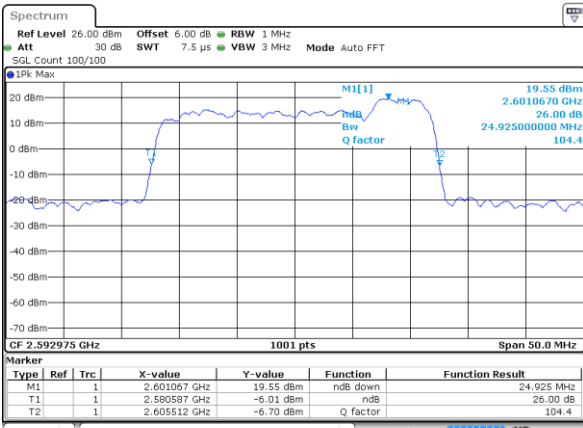
Date: 15 MAY 2020 15:27:49

Lowest Channel / 20MHz+10MHz



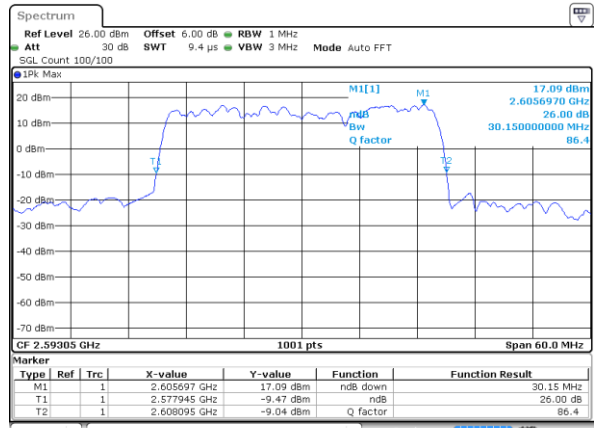
Date: 15 MAY 2020 17:23:13

Middle Channel / 20MHz+5MHz



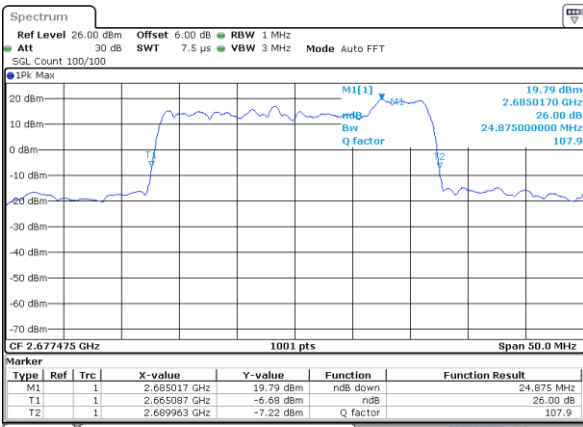
Date: 15 MAY 2020 15:32:18

Middle Channel / 20MHz+10MHz



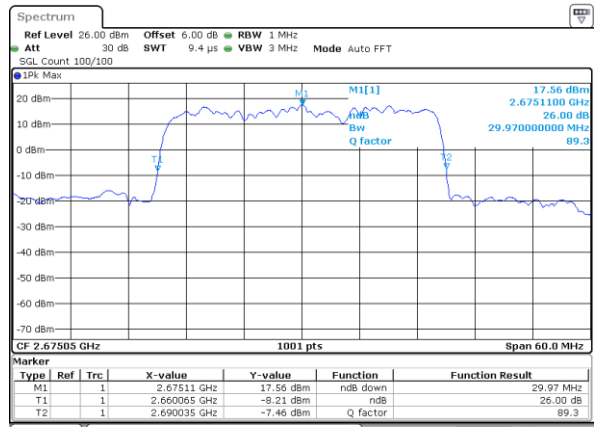
Date: 15 MAY 2020 19:48:00

Highest Channel / 20MHz+5MHz



Date: 15 MAY 2020 15:38:41

Highest Channel / 20MHz+10MHz



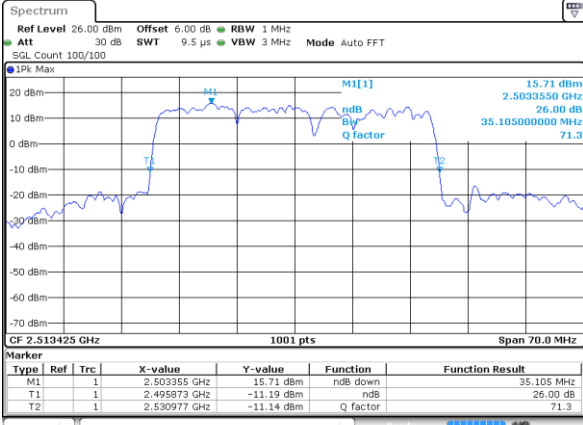
Date: 15 MAY 2020 19:55:55



LTE Band 41

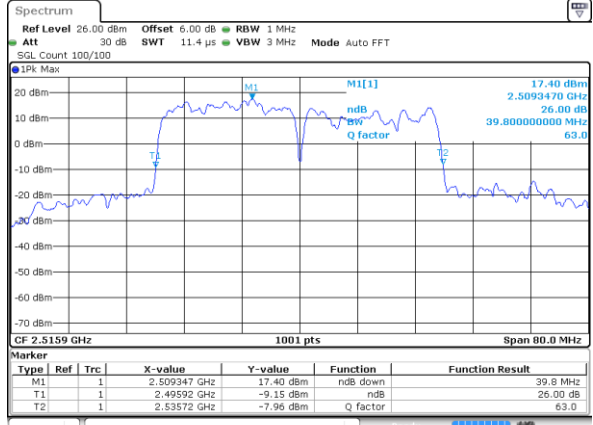
QPSK

Lowest Channel / 20MHz+15MHz



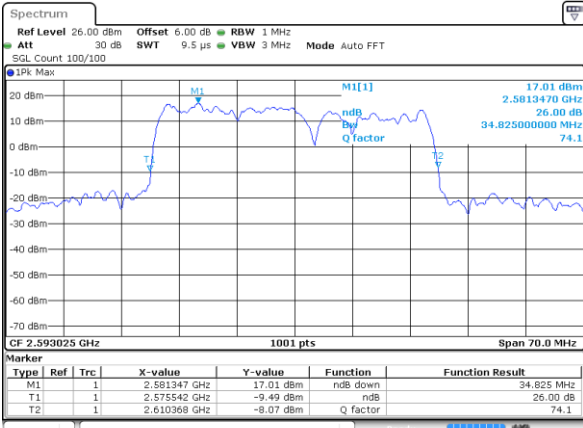
Date: 16 MAY 2020 15:00:56

Lowest Channel / 20MHz+20MHz



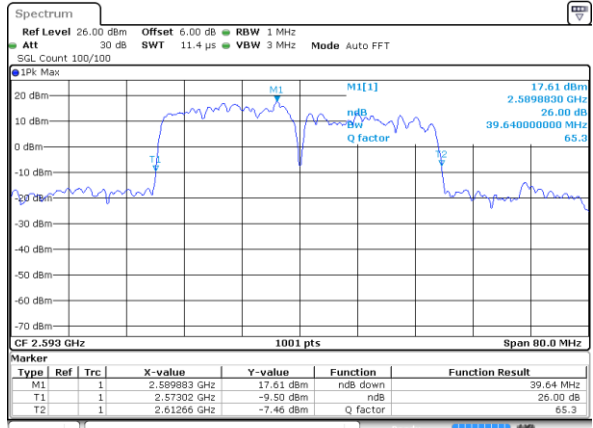
Date: 16 MAY 2020 15:30:02

Middle Channel / 20MHz+15MHz



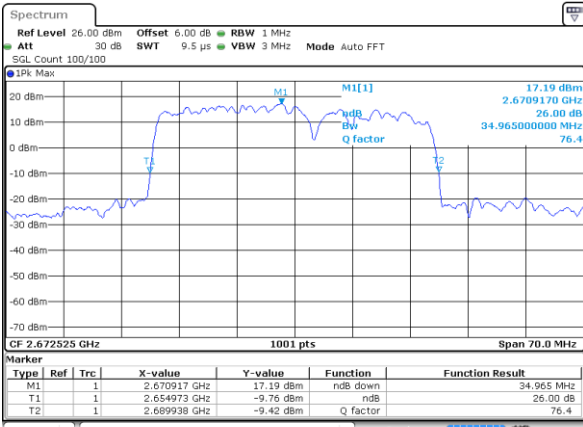
Date: 16 MAY 2020 15:09:44

Middle Channel / 20MHz+20MHz



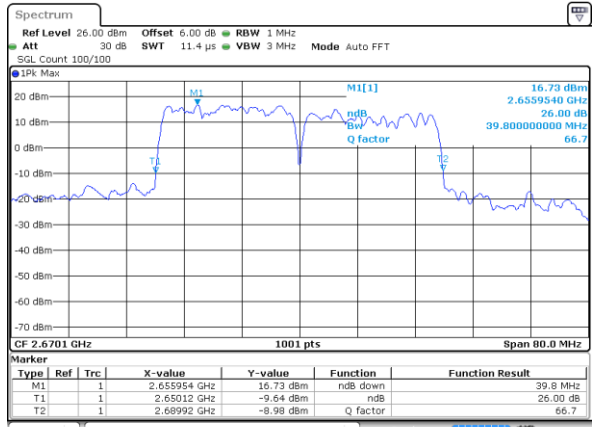
Date: 16 MAY 2020 15:39:12

Highest Channel / 20MHz+15MHz



Date: 16 MAY 2020 15:17:52

Highest Channel / 20MHz+20MHz



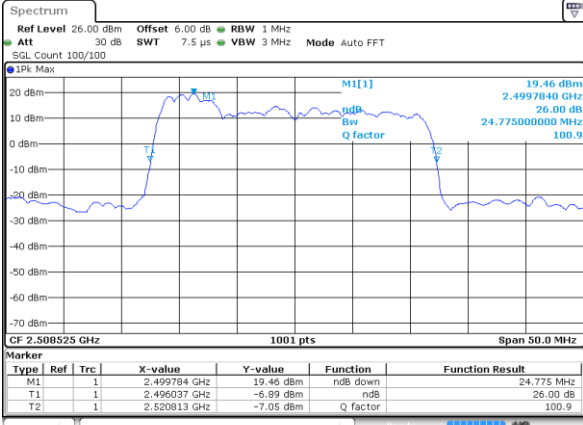
Date: 16 MAY 2020 15:50:20



LTE Band 41

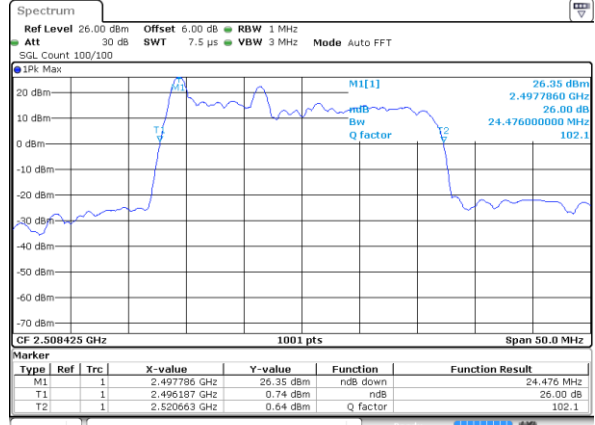
16QAM

Lowest Channel / 5MHz+20MHz



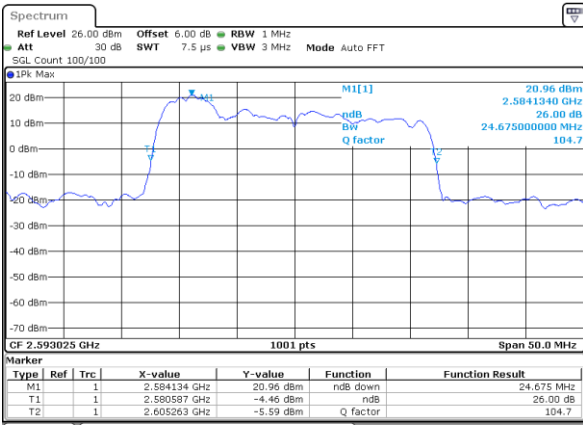
Date: 15 MAY 2020 14:30:28

Lowest Channel / 10MHz+15MHz



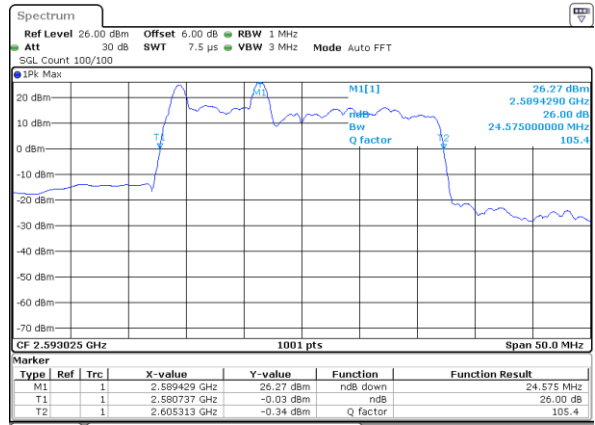
Date: 15 MAY 2020 15:46:24

Middle Channel / 5MHz+20MHz



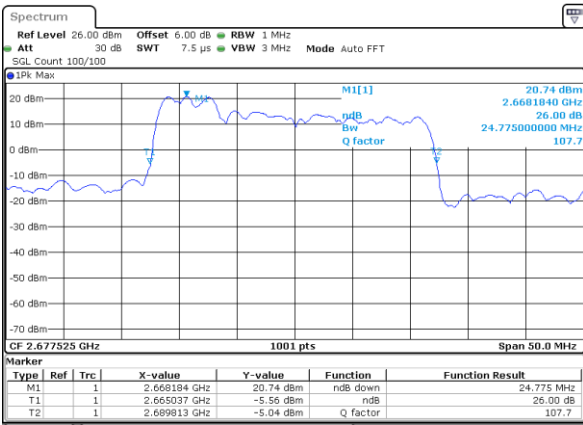
Date: 15 MAY 2020 14:36:23

Middle Channel / 10MHz+15MHz



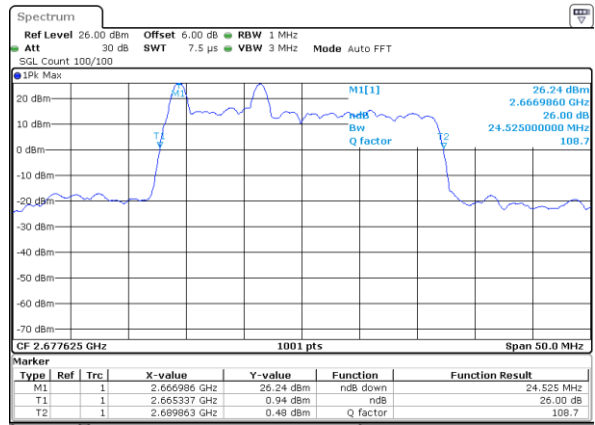
Date: 15 MAY 2020 15:51:45

Highest Channel / 5MHz+20MHz



Date: 15 MAY 2020 14:44:20

Highest Channel / 10MHz+15MHz



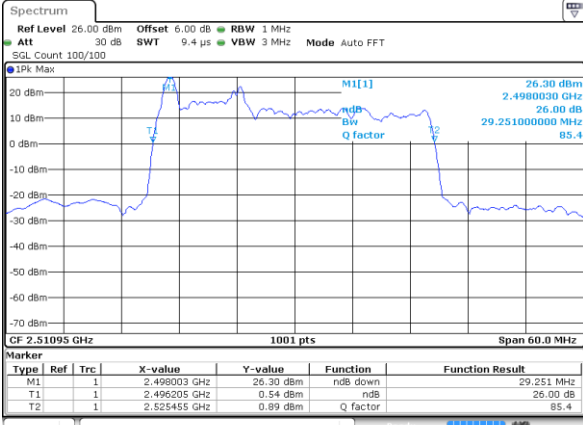
Date: 15 MAY 2020 15:59:02



LTE Band 41

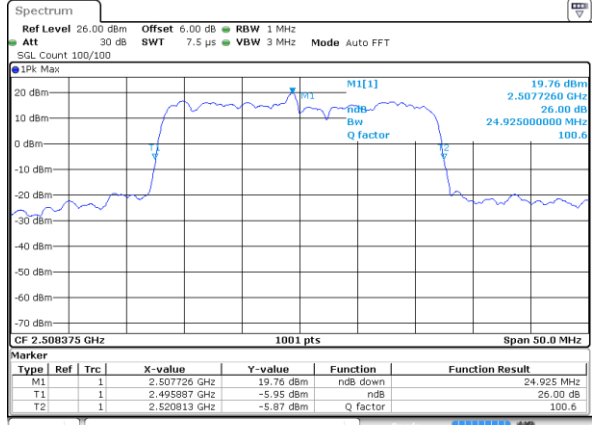
16QAM

Lowest Channel / 10MHz+20MHz



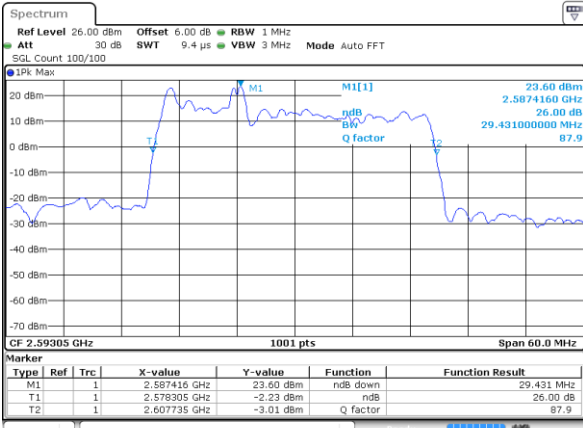
Date: 15 MAY 2020 17:00:28

Lowest Channel / 15MHz+10MHz



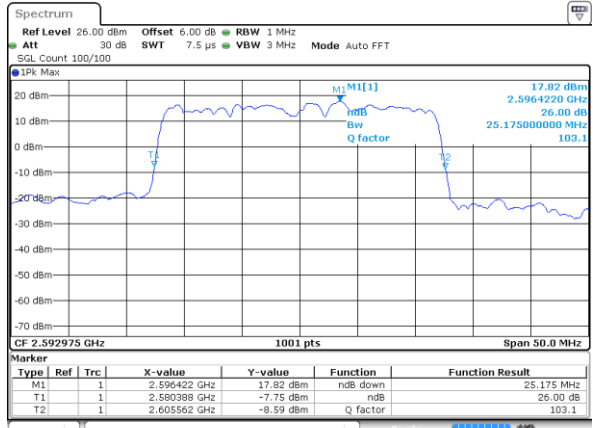
Date: 15 MAY 2020 16:04:53

Middle Channel / 10MHz+20MHz



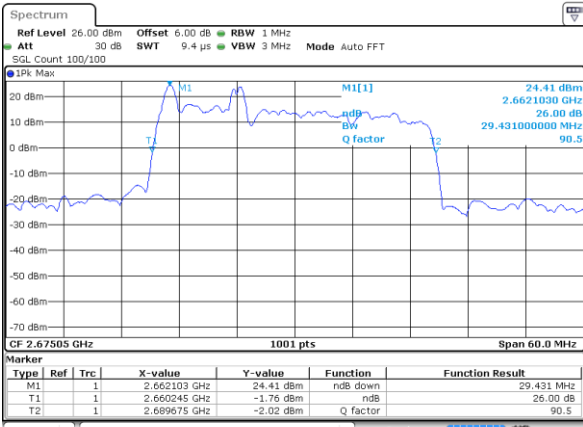
Date: 15 MAY 2020 17:06:53

Middle Channel / 15MHz+10MHz



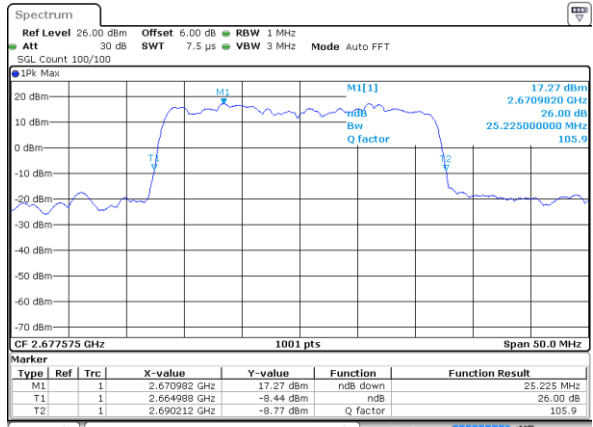
Date: 15 MAY 2020 16:09:36

Highest Channel / 10MHz+20MHz



Date: 15 MAY 2020 17:12:00

Highest Channel / 15MHz+10MHz



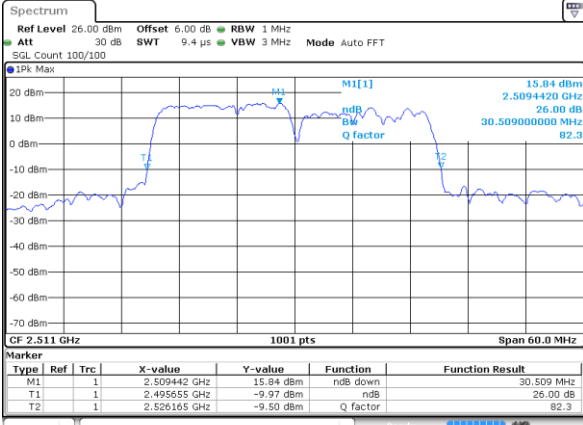
Date: 15 MAY 2020 16:14:18



LTE Band 41

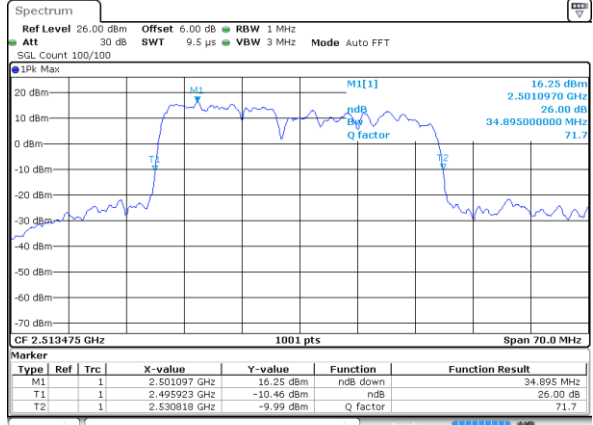
16QAM

Lowest Channel / 15MHz+15MHz



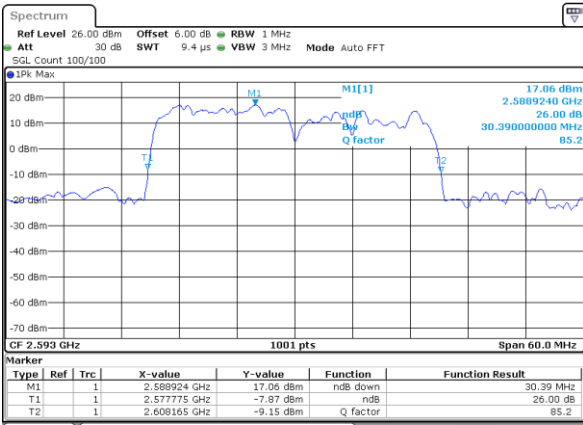
Date: 16 MAY 2020 13:52:12

Lowest Channel / 15MHz+20MHz



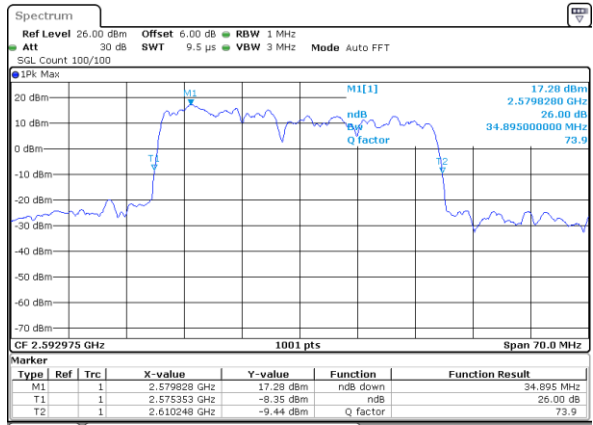
Date: 16 MAY 2020 14:11:01

Middle Channel / 15MHz+15MHz



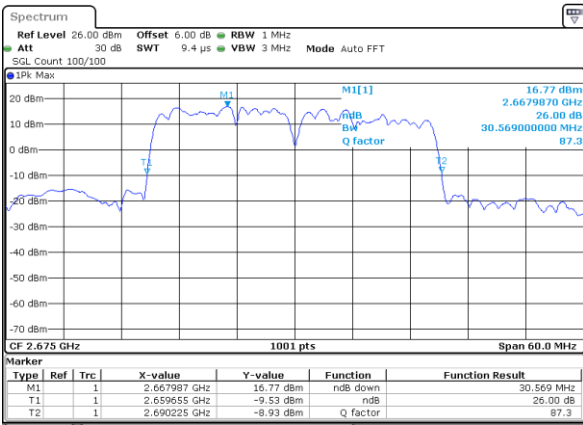
Date: 16 MAY 2020 13:58:44

Middle Channel / 15MHz+20MHz



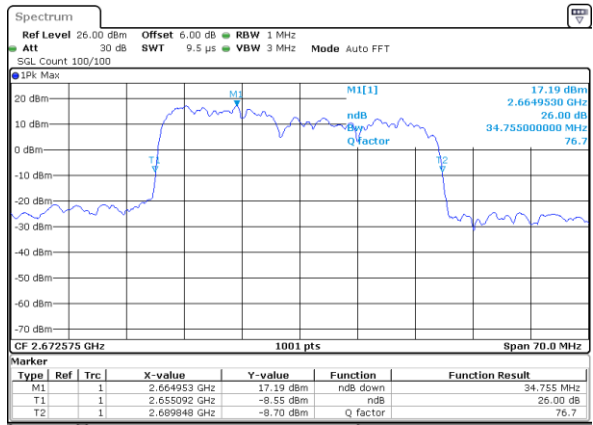
Date: 16 MAY 2020 14:20:58

Highest Channel / 15MHz+15MHz



Date: 16 MAY 2020 14:03:20

Highest Channel / 15MHz+20MHz



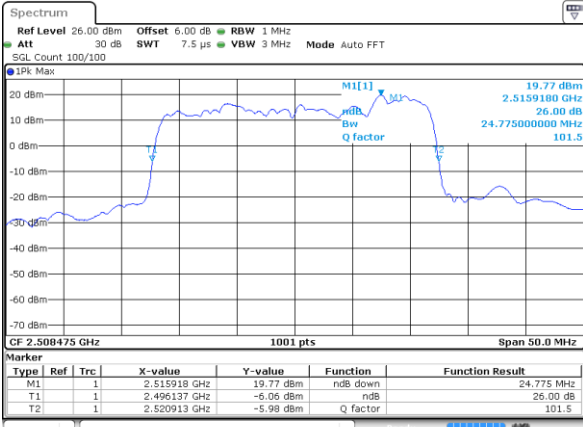
Date: 16 MAY 2020 14:25:44



LTE Band 41

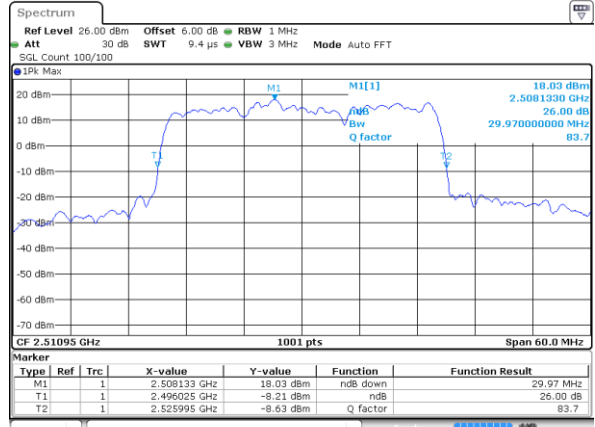
16QAM

Lowest Channel / 20MHz+5MHz



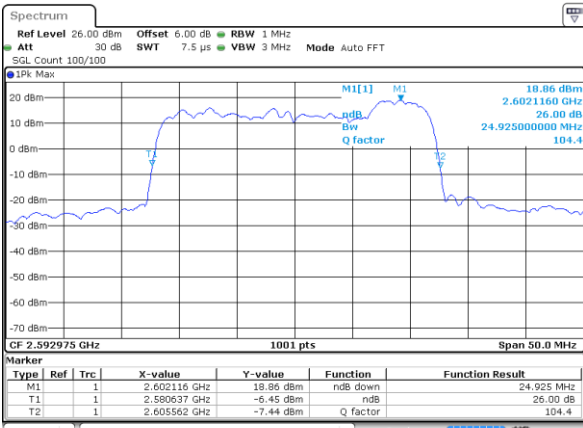
Date: 15 MAY 2020 15:27:27

Lowest Channel / 20MHz+10MHz



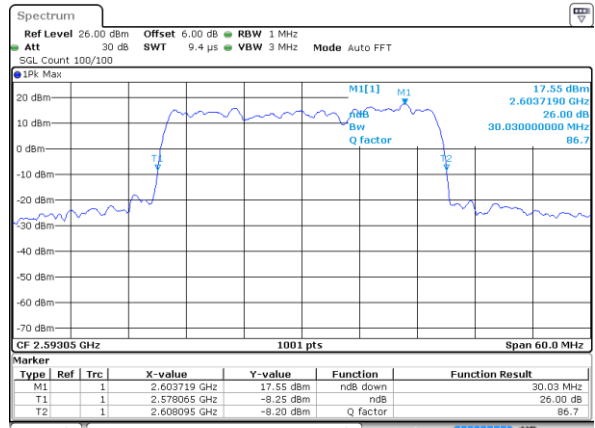
Date: 15 MAY 2020 17:23:37

Middle Channel / 20MHz+5MHz



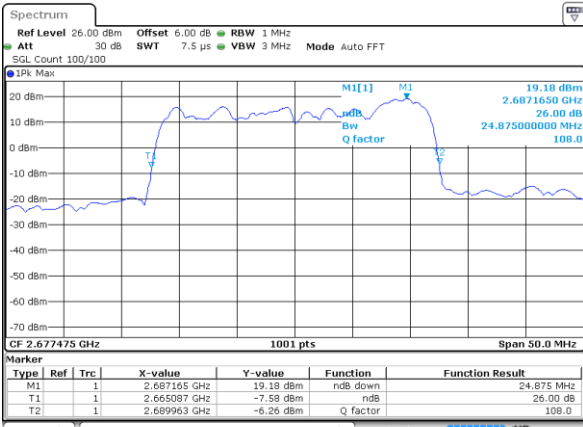
Date: 15 MAY 2020 15:31:51

Middle Channel / 20MHz+10MHz



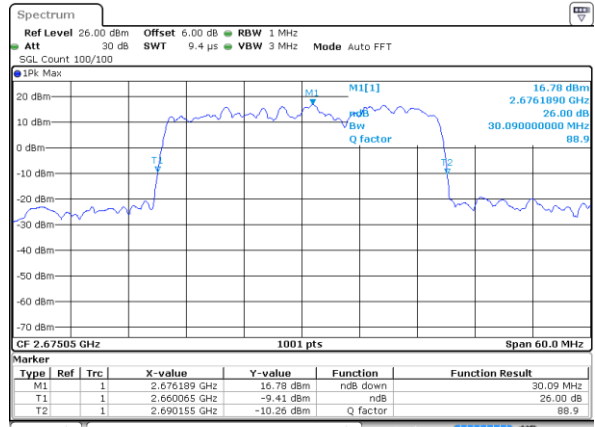
Date: 15 MAY 2020 19:49:24

Highest Channel / 20MHz+5MHz



Date: 15 MAY 2020 15:37:45

Highest Channel / 20MHz+10MHz



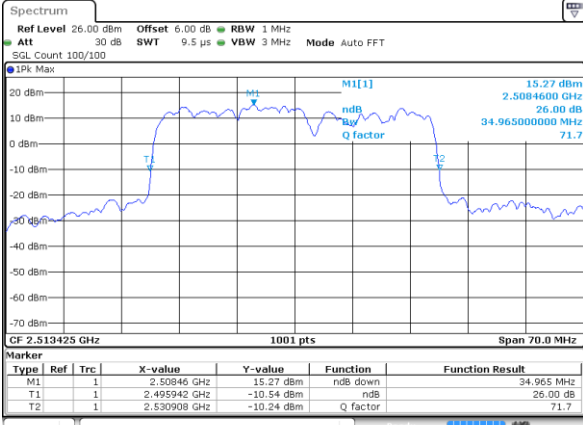
Date: 15 MAY 2020 19:56:26



LTE Band 41

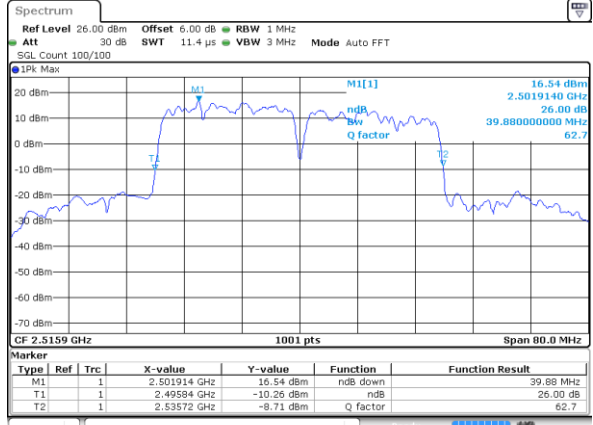
16QAM

Lowest Channel / 20MHz+15MHz



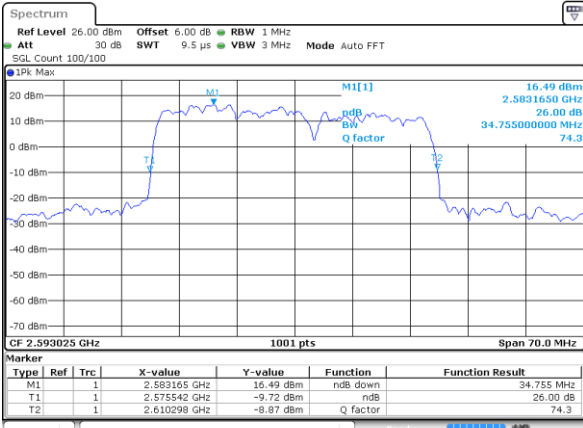
Date: 16 MAY 2020 15:00:21

Lowest Channel / 20MHz+20MHz



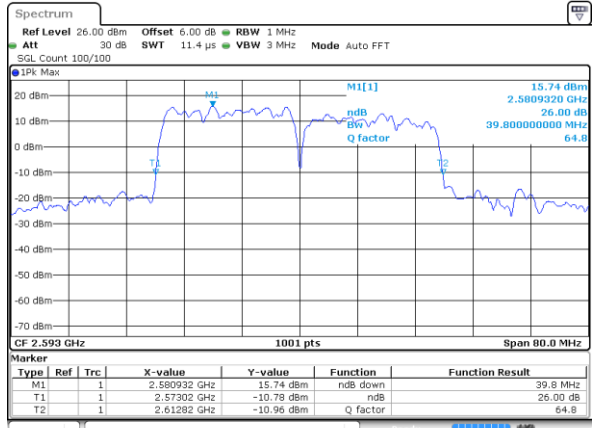
Date: 16 MAY 2020 15:29:37

Middle Channel / 20MHz+15MHz



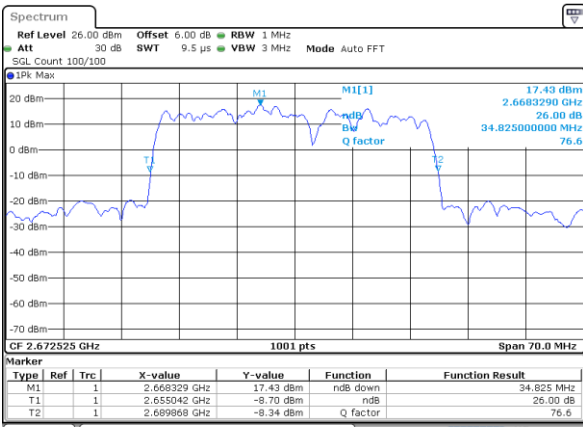
Date: 16 MAY 2020 15:09:04

Middle Channel / 20MHz+20MHz



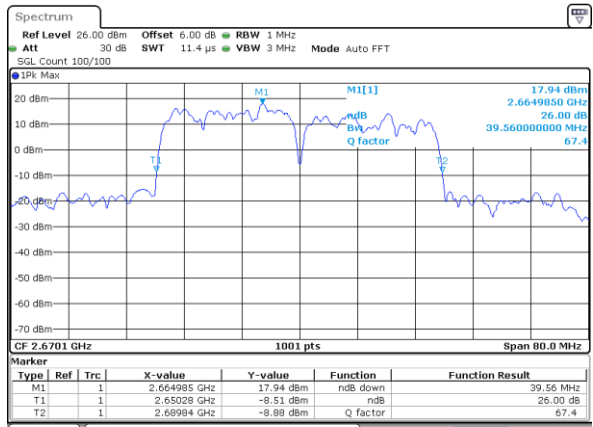
Date: 16 MAY 2020 15:37:52

Highest Channel / 20MHz+15MHz



Date: 16 MAY 2020 15:17:04

Highest Channel / 20MHz+20MHz



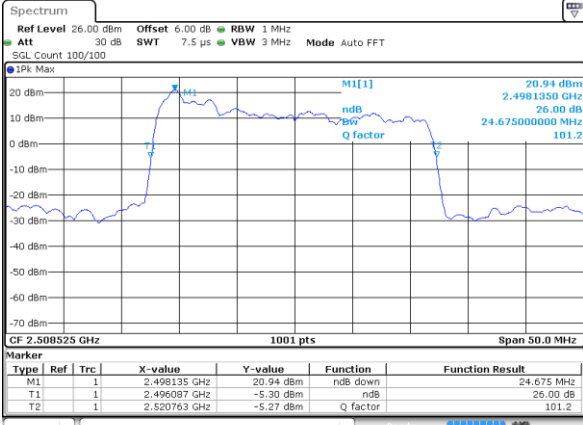
Date: 16 MAY 2020 15:49:44



LTE Band 41

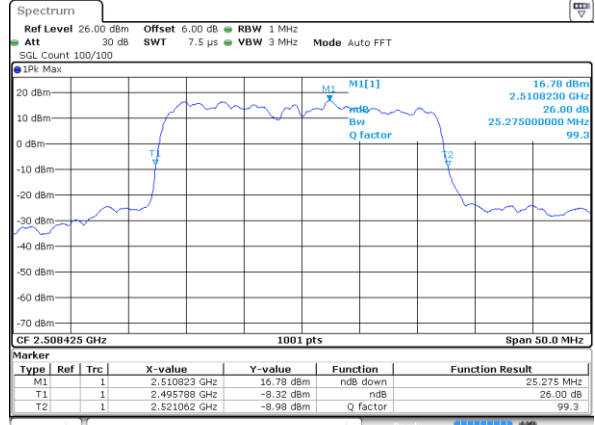
64QAM

Lowest Channel / 5MHz+20MHz



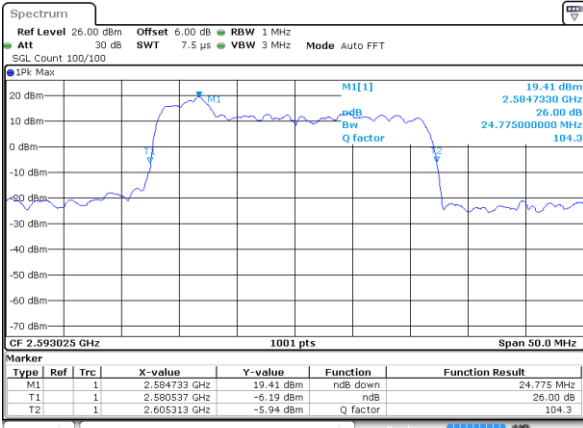
Date: 15 MAY 2020 14:31:08

Lowest Channel / 10MHz+15MHz



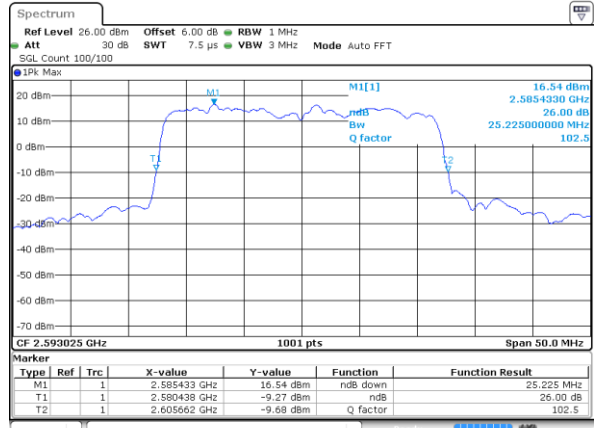
Date: 15 MAY 2020 15:46:01

Middle Channel / 5MHz+20MHz



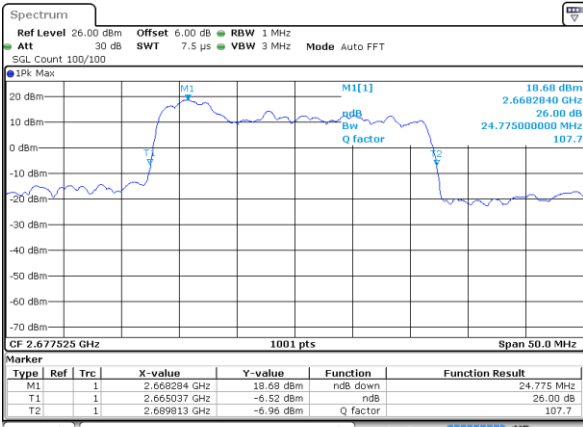
Date: 15 MAY 2020 14:35:56

Middle Channel / 10MHz+15MHz



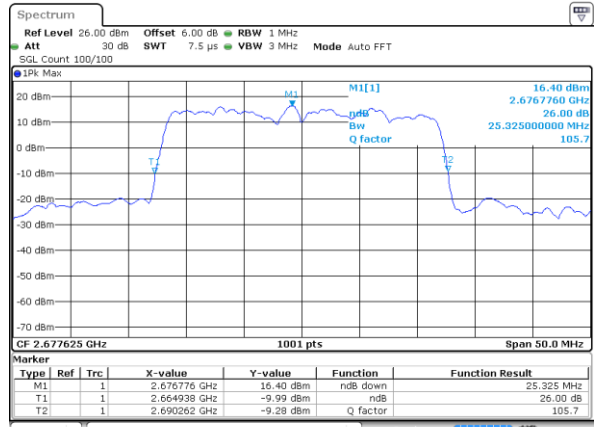
Date: 15 MAY 2020 15:51:19

Highest Channel / 5MHz+20MHz



Date: 15 MAY 2020 14:43:58

Highest Channel / 10MHz+15MHz



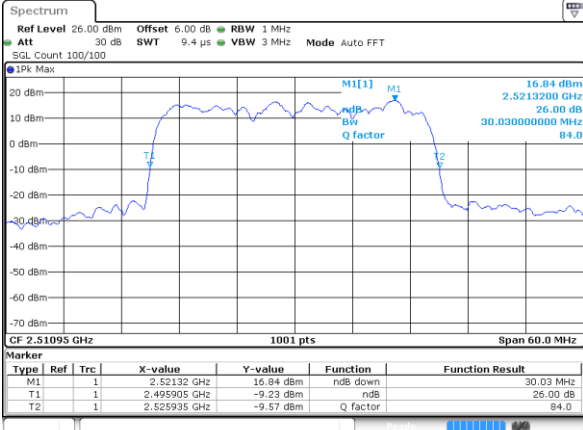
Date: 15 MAY 2020 15:58:39



LTE Band 41

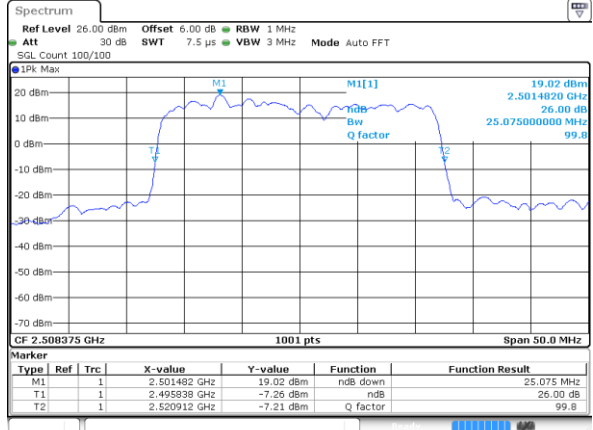
64QAM

Lowest Channel / 10MHz+20MHz



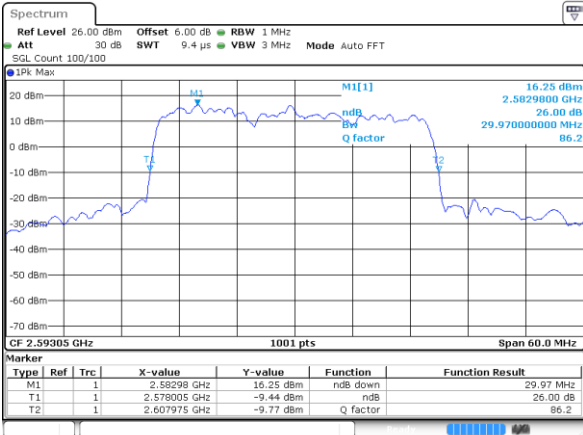
Date: 15 MAY 2020 16:59:56

Lowest Channel / 15MHz+10MHz



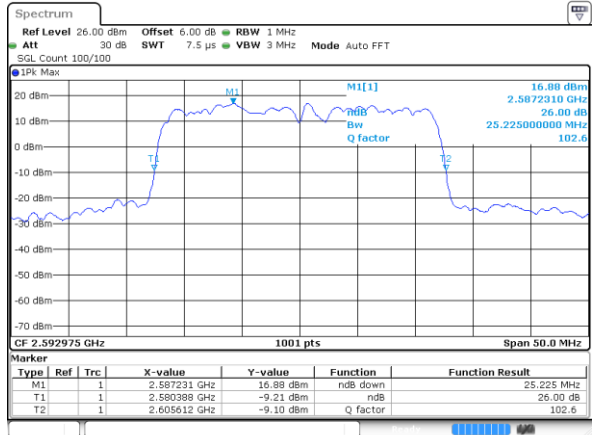
Date: 15 MAY 2020 16:04:30

Middle Channel / 10MHz+20MHz



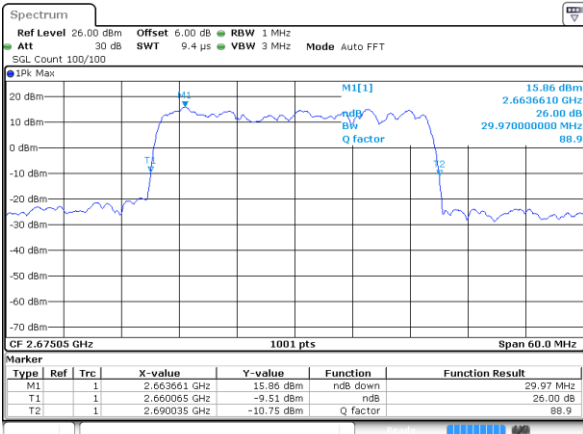
Date: 15 MAY 2020 17:07:19

Middle Channel / 15MHz+10MHz



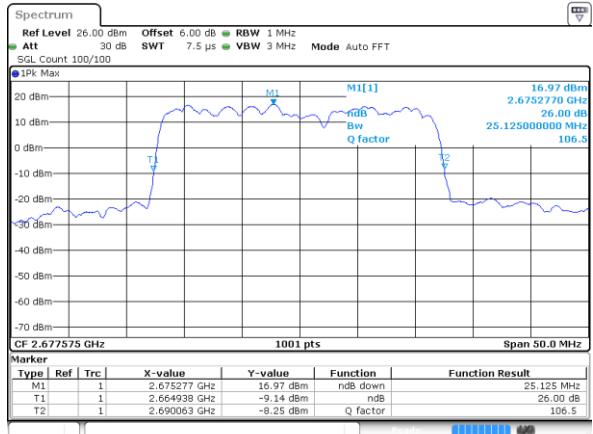
Date: 15 MAY 2020 16:20:30

Highest Channel / 10MHz+20MHz



Date: 15 MAY 2020 17:13:32

Highest Channel / 15MHz+10MHz



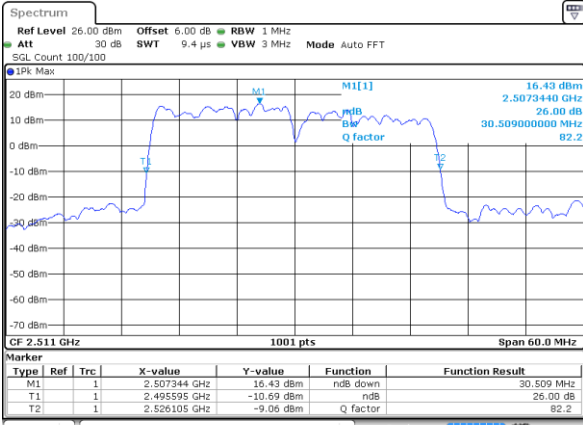
Date: 15 MAY 2020 16:13:54



LTE Band 41

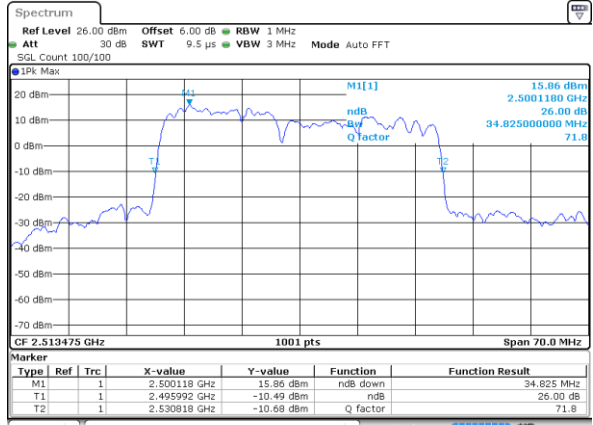
64QAM

Lowest Channel / 15MHz+15MHz



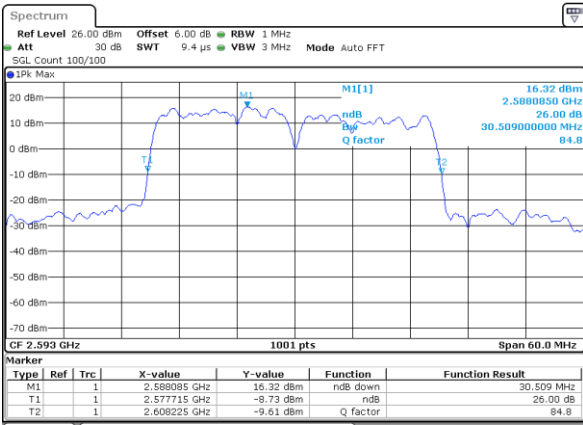
Date: 16 MAY 2020 13:52:42

Lowest Channel / 15MHz+20MHz



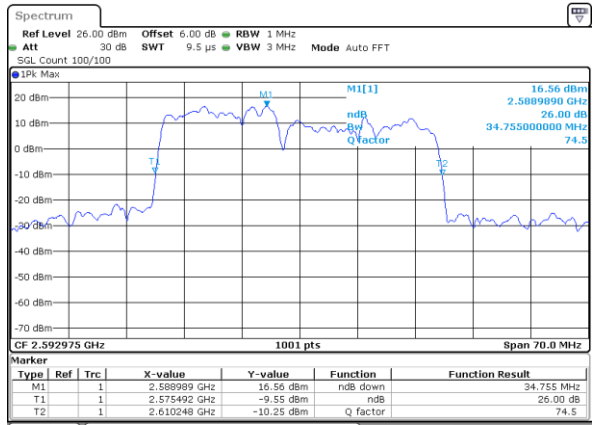
Date: 16 MAY 2020 14:10:35

Middle Channel / 15MHz+15MHz



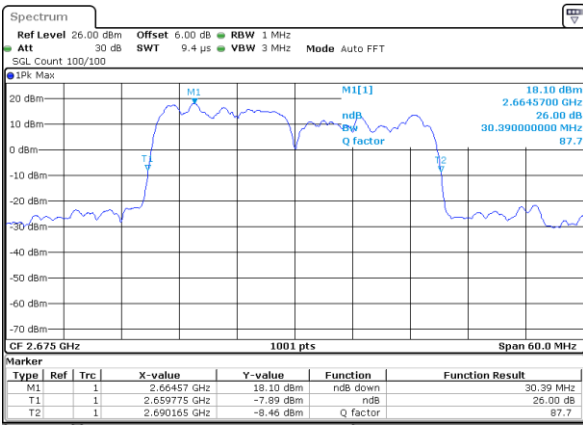
Date: 16 MAY 2020 13:59:08

Middle Channel / 15MHz+20MHz



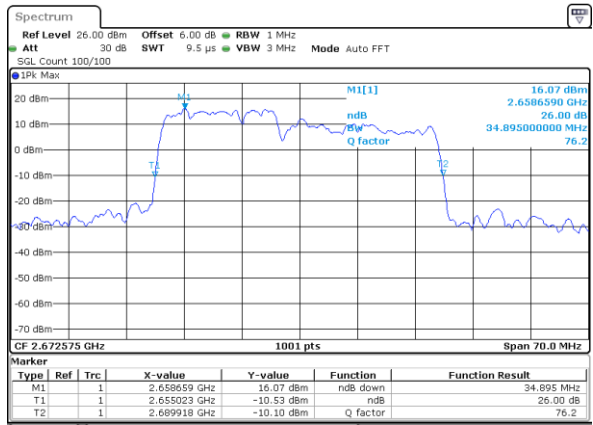
Date: 16 MAY 2020 14:10:34

Highest Channel / 15MHz+15MHz



Date: 16 MAY 2020 14:03:41

Highest Channel / 15MHz+20MHz



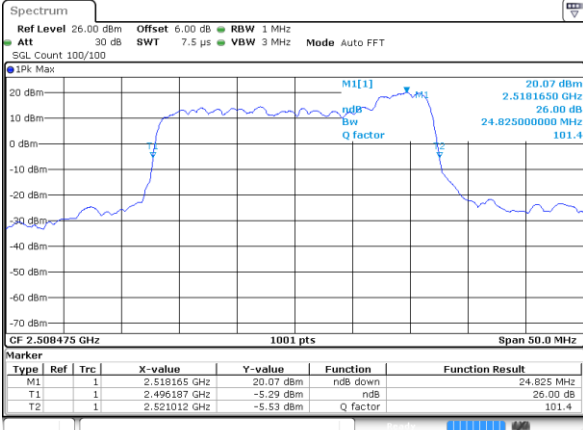
Date: 16 MAY 2020 14:25:16



LTE Band 41

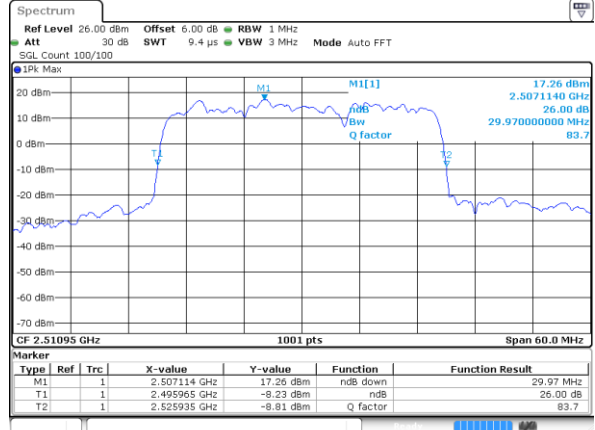
64QAM

Lowest Channel / 20MHz+5MHz



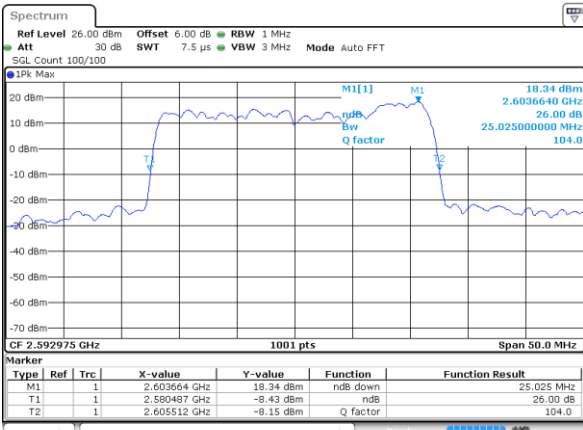
Date: 15 MAY 2020 15:27:05

Lowest Channel / 20MHz+10MHz



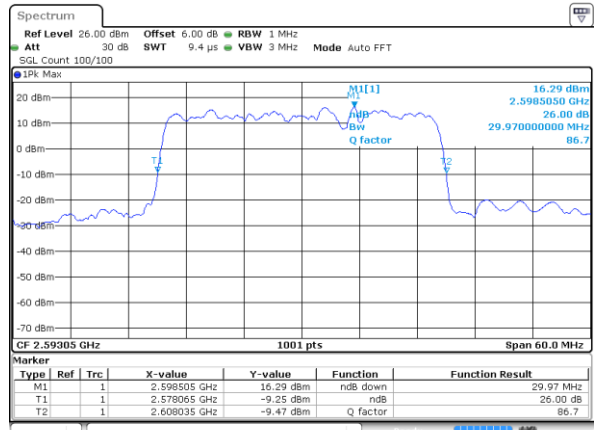
Date: 15 MAY 2020 17:24:26

Middle Channel / 20MHz+5MHz



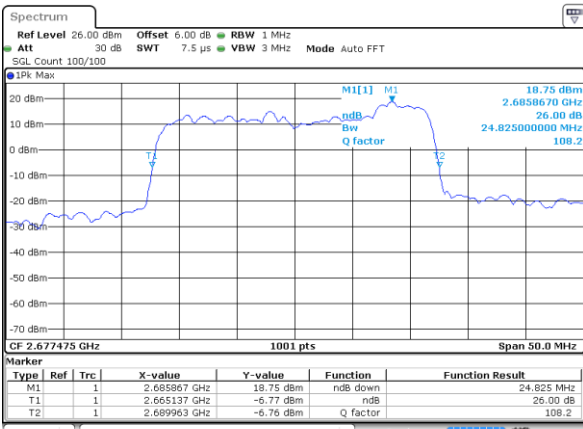
Date: 15 MAY 2020 15:31:32

Middle Channel / 20MHz+10MHz



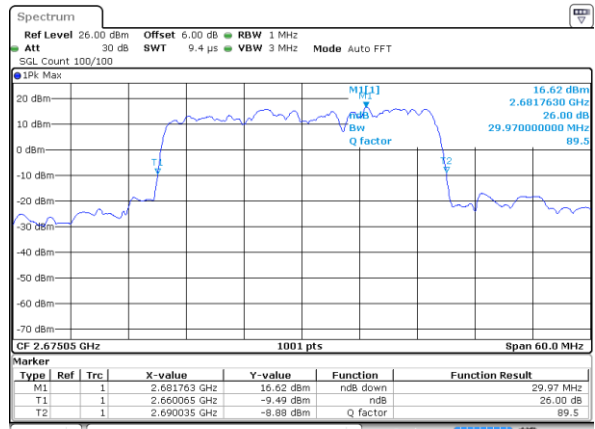
Date: 15 MAY 2020 19:49:55

Highest Channel / 20MHz+5MHz



Date: 15 MAY 2020 15:37:24

Highest Channel / 20MHz+10MHz



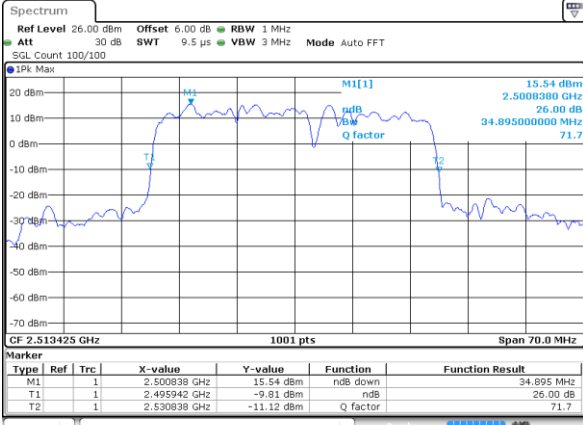
Date: 15 MAY 2020 19:56:57



LTE Band 41

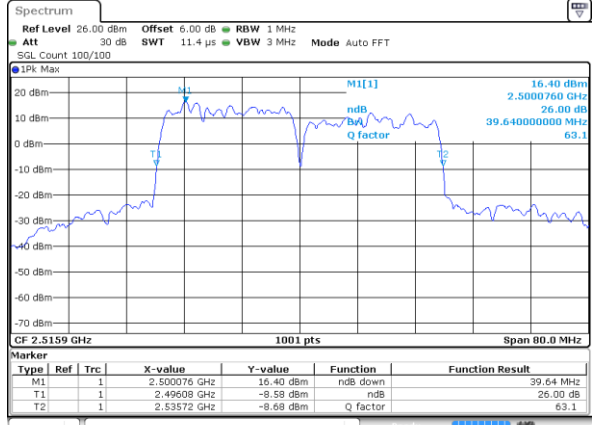
64QAM

Lowest Channel / 20MHz+15MHz



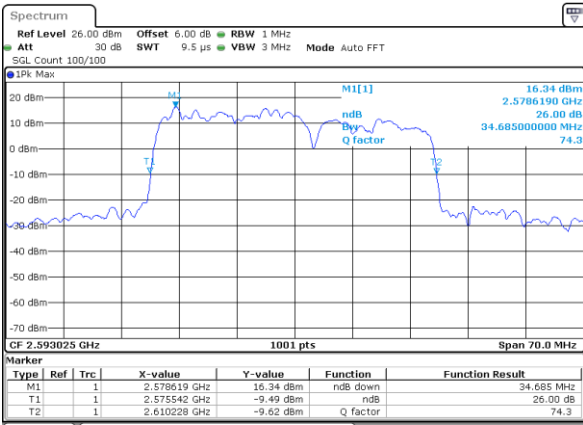
Date: 16 MAY 2020 14:59:57

Lowest Channel / 20MHz+20MHz



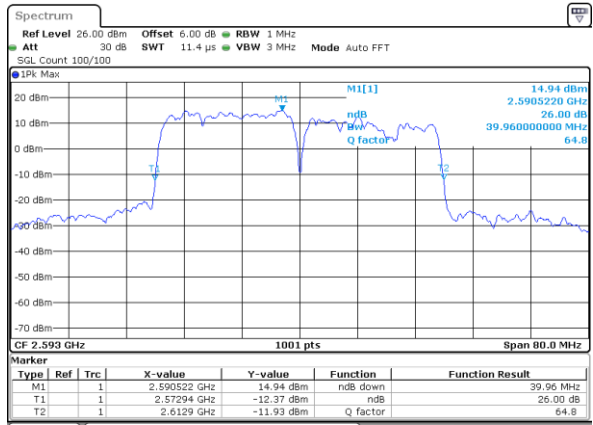
Date: 16 MAY 2020 15:28:33

Middle Channel / 20MHz+15MHz



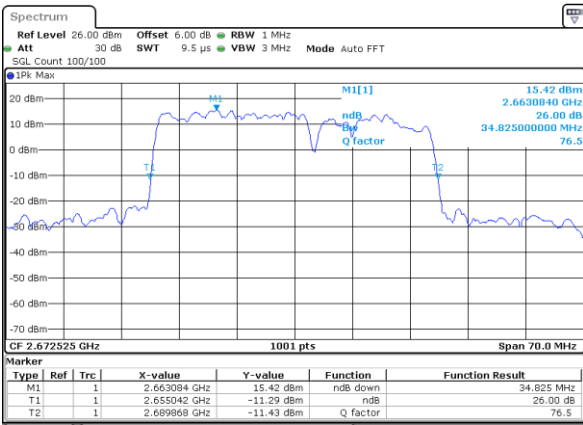
Date: 16 MAY 2020 15:07:59

Middle Channel / 20MHz+20MHz



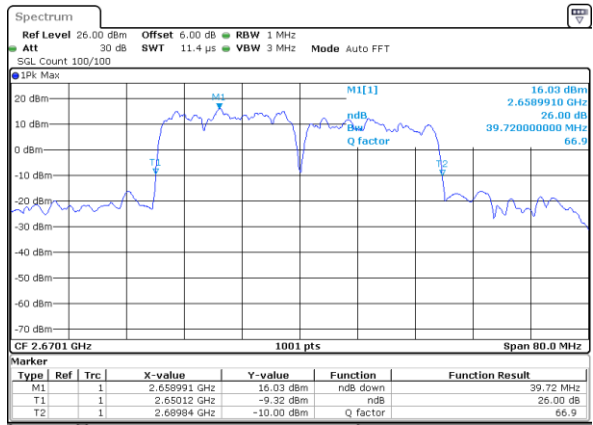
Date: 16 MAY 2020 15:36:54

Highest Channel / 20MHz+15MHz



Date: 16 MAY 2020 15:16:02

Highest Channel / 20MHz+20MHz



Date: 16 MAY 2020 15:49:12



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	23.38	27.93	23.28	28.53
Middle CH	23.38	23.23	27.51	23.43	28.71
Highest CH	23.13	22.93	27.57	23.48	28.59
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	33.01	23.18	28.05	32.87	37.56
Middle CH	32.66	23.38	28.11	32.38	37.40
Highest CH	32.94	23.13	28.17	32.66	37.40

Mode	LTE Band 41 : 99%OBW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.38	23.18	27.99	23.38	28.59
Middle CH	23.18	22.98	27.63	23.48	28.59
Highest CH	23.33	23.43	27.69	23.48	28.47
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.66	23.28	27.99	32.52	37.40
Middle CH	32.73	23.28	28.35	32.73	37.32
Highest CH	32.52	23.53	28.11	32.52	37.40

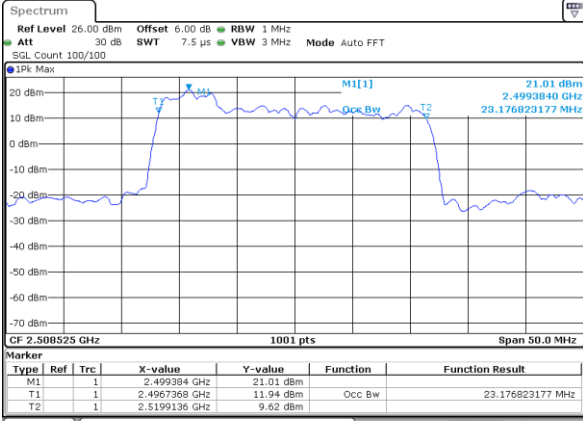
Mode	LTE Band 41 : 99%OBW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.08	23.53	27.99	23.33	28.53
Middle CH	23.03	23.38	28.11	23.38	28.65
Highest CH	23.03	23.48	27.87	23.38	28.47
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.52	23.18	28.17	33.01	37.40
Middle CH	32.73	23.38	28.11	32.94	37.72
Highest CH	32.80	23.18	28.11	32.59	37.64



LTE Band 41

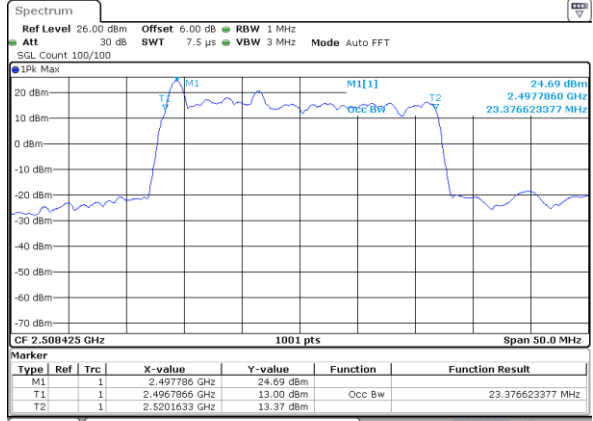
QPSK

Lowest Channel / 5MHz+20MHz



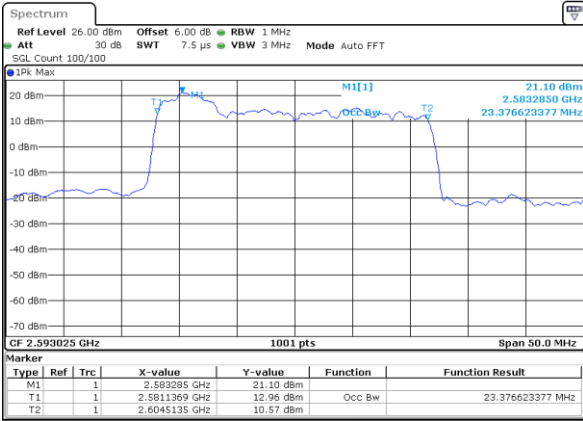
Date: 15 MAY 2020 13:14:32

Lowest Channel / 10MHz+15MHz



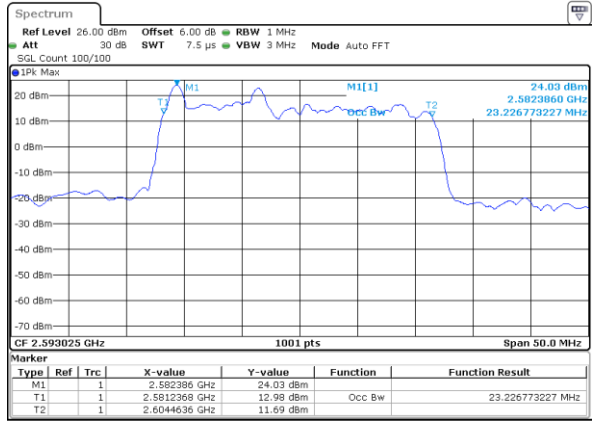
Date: 15 MAY 2020 15:47:10

Middle Channel / 5MHz+20MHz



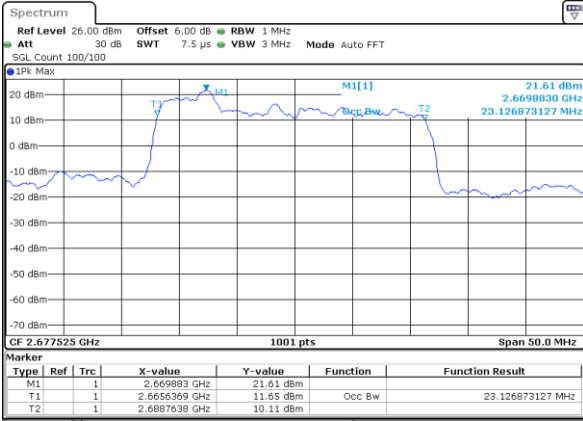
Date: 15 MAY 2020 14:37:22

Middle Channel / 10MHz+15MHz



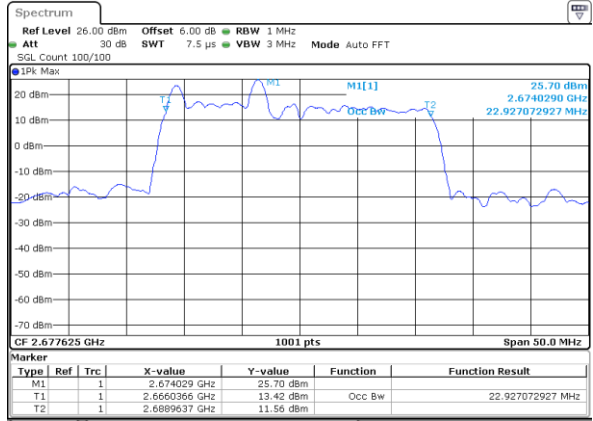
Date: 15 MAY 2020 15:52:51

Highest Channel / 5MHz+20MHz



Date: 15 MAY 2020 14:42:38

Highest Channel / 10MHz+15MHz



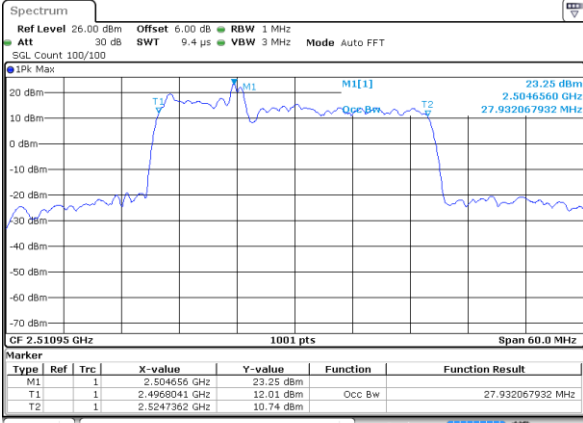
Date: 15 MAY 2020 15:59:24



LTE Band 41

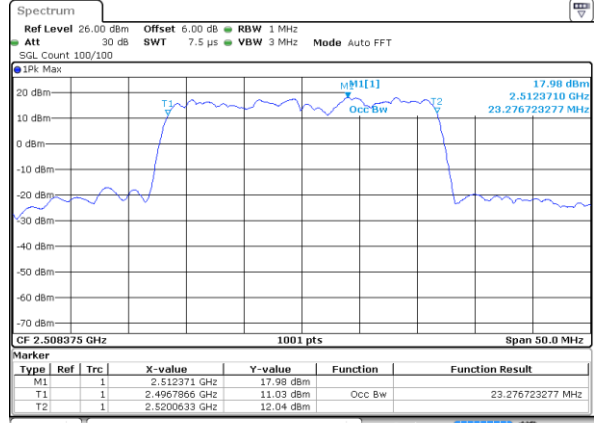
QPSK

Lowest Channel / 10MHz+20MHz



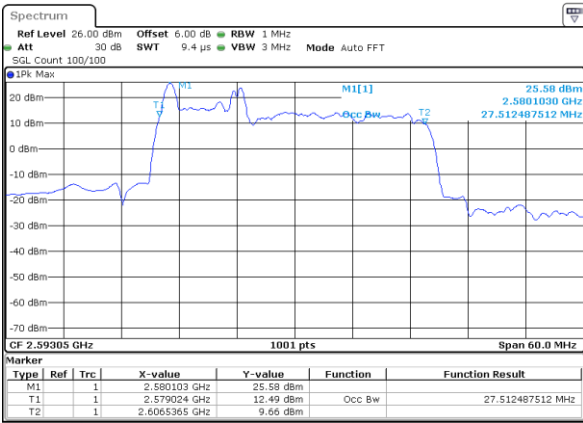
Date: 15 MAY 2020 17:00:49

Lowest Channel / 15MHz+10MHz



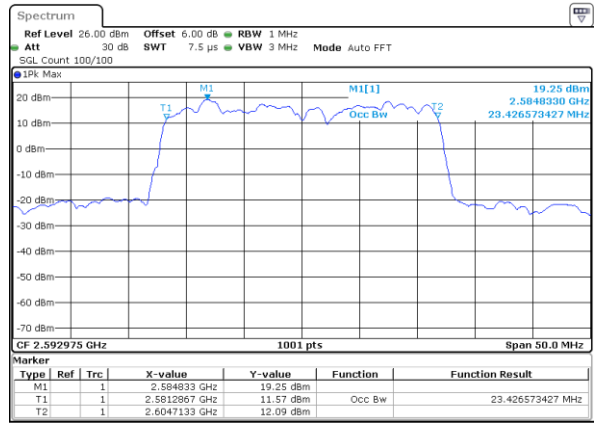
Date: 15 MAY 2020 16:05:09

Middle Channel / 10MHz+20MHz



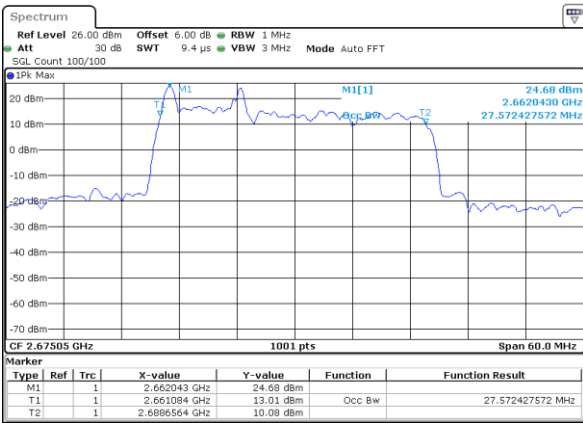
Date: 15 MAY 2020 17:06:25

Middle Channel / 15MHz+10MHz



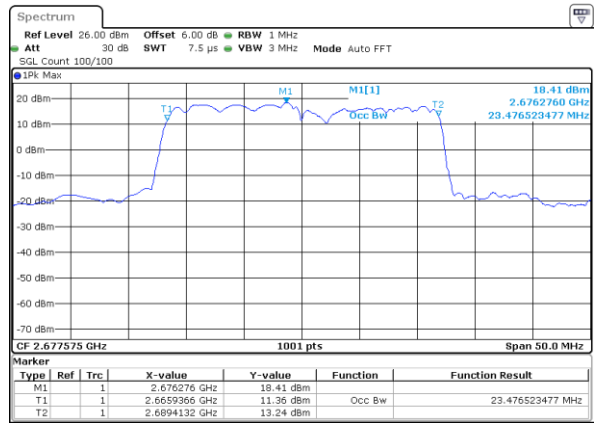
Date: 15 MAY 2020 16:09:55

Highest Channel / 10MHz+20MHz



Date: 15 MAY 2020 17:11:25

Highest Channel / 15MHz+10MHz



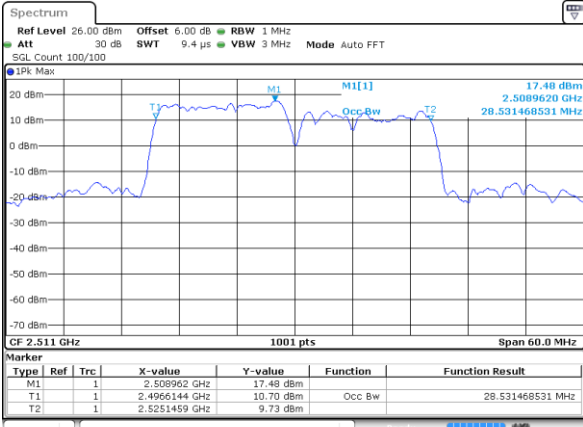
Date: 15 MAY 2020 16:15:26



LTE Band 41

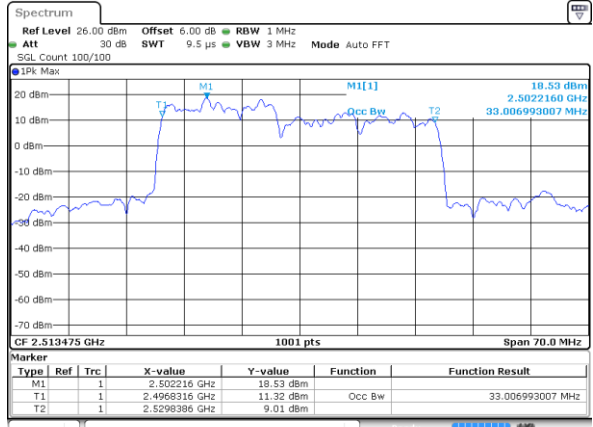
QPSK

Lowest Channel / 15MHz+15MHz



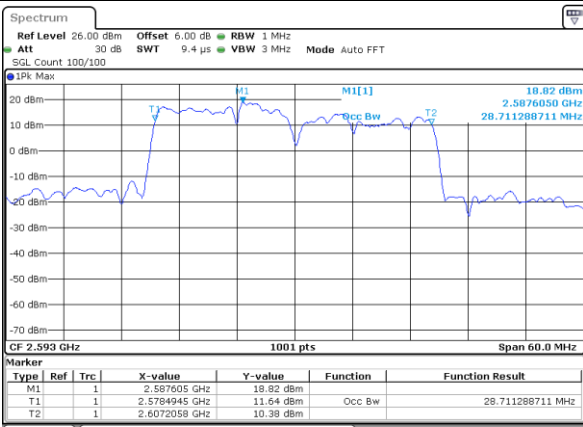
Date: 16 MAY 2020 13:51:42

Lowest Channel / 15MHz+20MHz



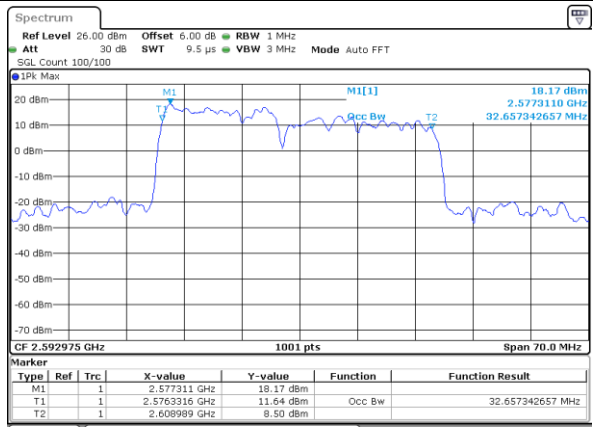
Date: 16 MAY 2020 14:11:16

Middle Channel / 15MHz+15MHz



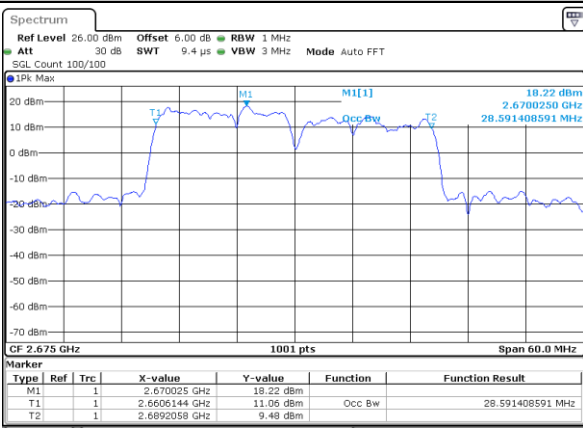
Date: 16 MAY 2020 13:58:18

Middle Channel / 15MHz+20MHz



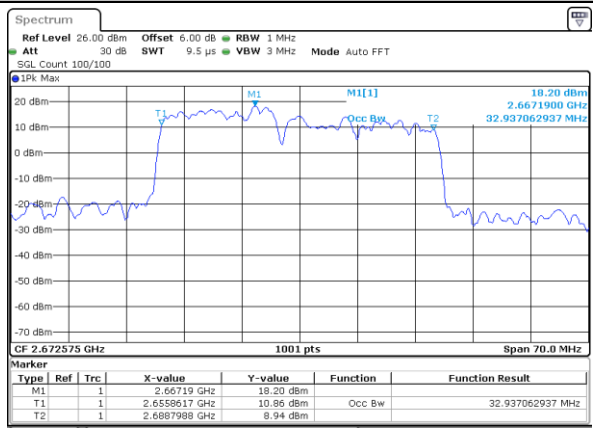
Date: 16 MAY 2020 14:21:15

Highest Channel / 15MHz+15MHz



Date: 16 MAY 2020 14:02:44

Highest Channel / 15MHz+20MHz



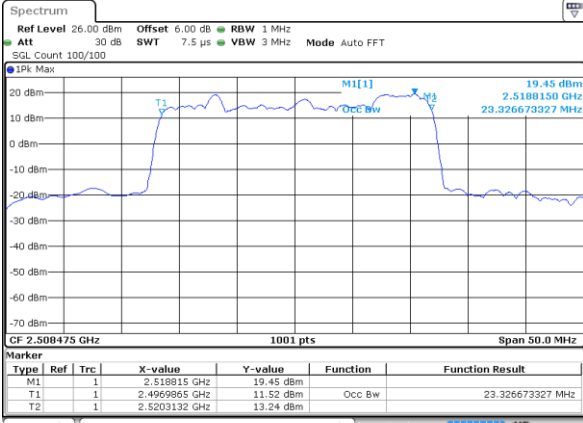
Date: 16 MAY 2020 14:26:06



LTE Band 41

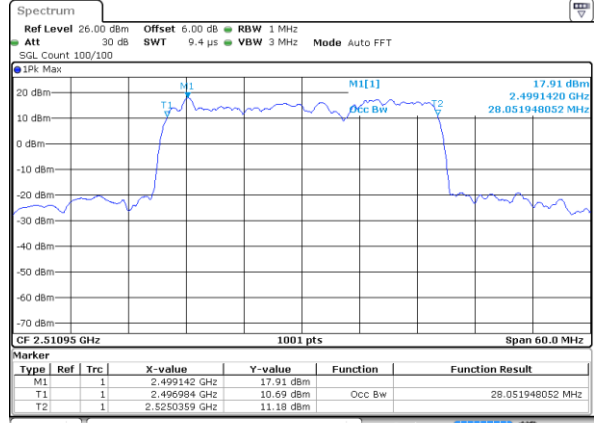
QPSK

Lowest Channel / 20MHz+5MHz



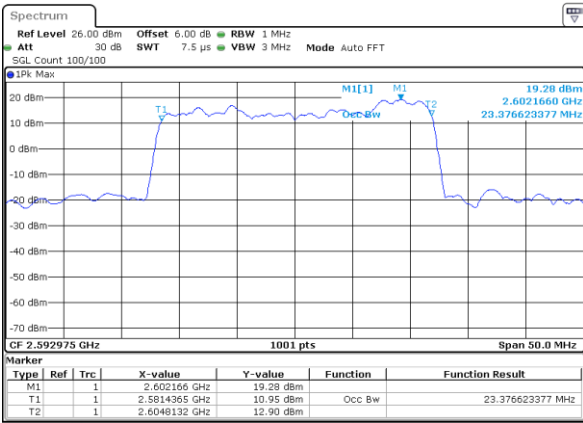
Date: 15 MAY 2020 15:27:43

Lowest Channel / 20MHz+10MHz



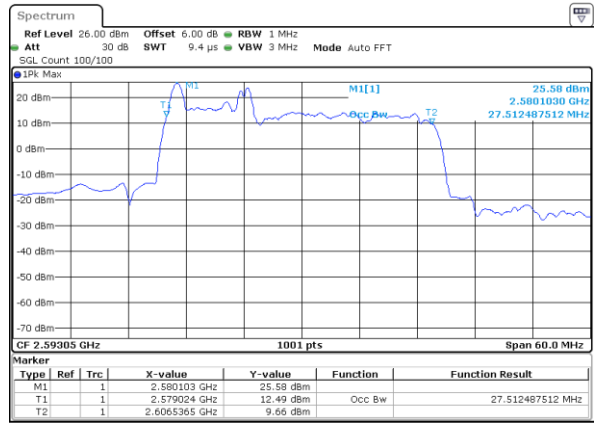
Date: 15 MAY 2020 17:23:07

Middle Channel / 20MHz+5MHz



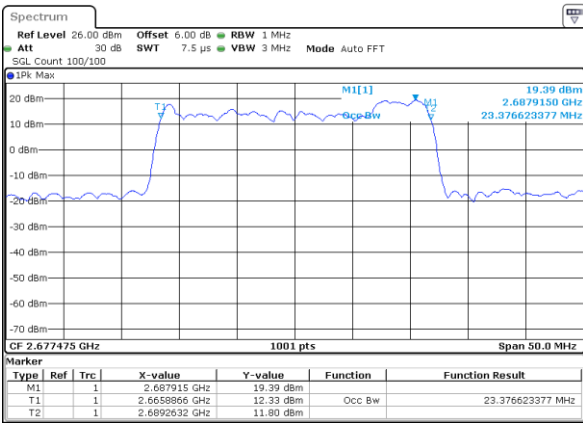
Date: 15 MAY 2020 15:32:12

Middle Channel / 20MHz+10MHz



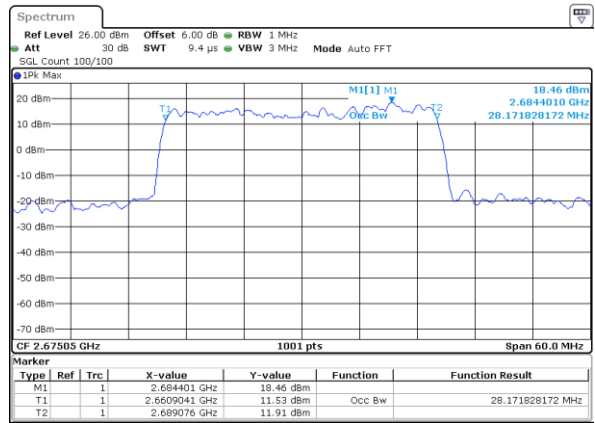
Date: 15 MAY 2020 17:06:25

Highest Channel / 20MHz+5MHz



Date: 15 MAY 2020 15:38:36

Highest Channel / 20MHz+10MHz



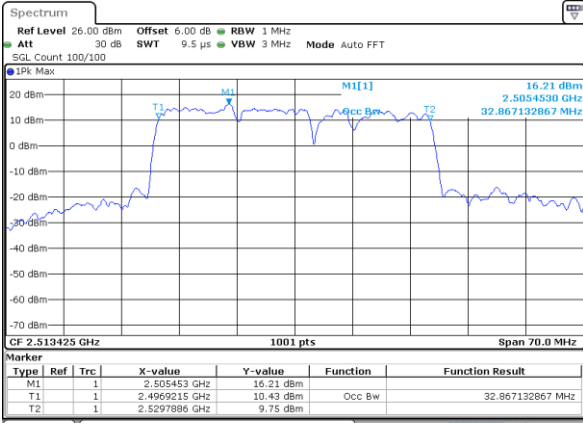
Date: 15 MAY 2020 19:55:38



LTE Band 41

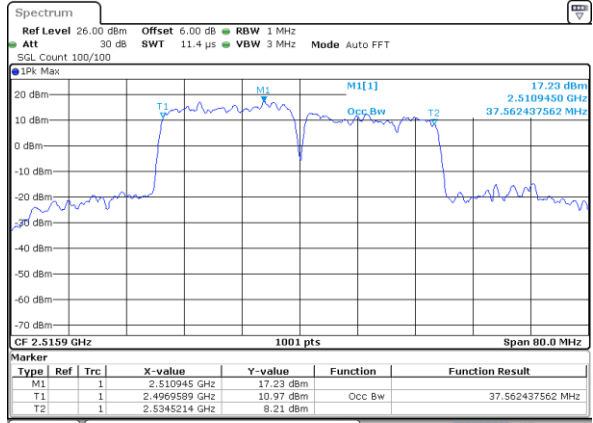
QPSK

Lowest Channel / 20MHz+15MHz



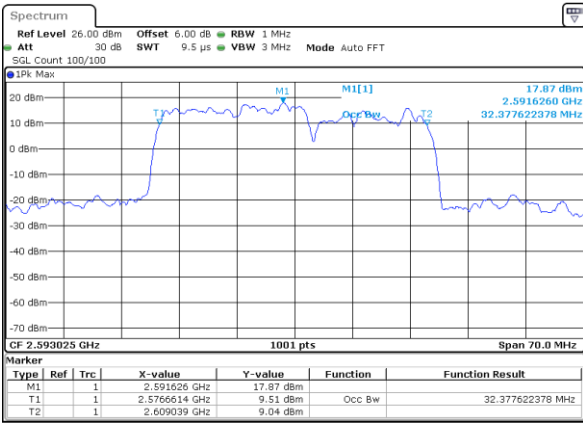
Date: 16 MAY 2020 15:00:36

Lowest Channel / 20MHz+20MHz



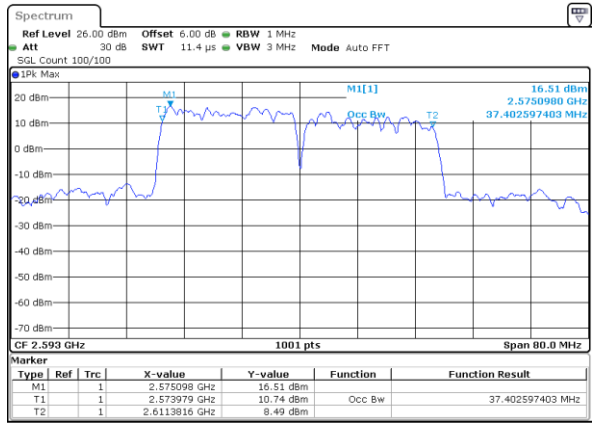
Date: 16 MAY 2020 15:29:56

Middle Channel / 20MHz+15MHz



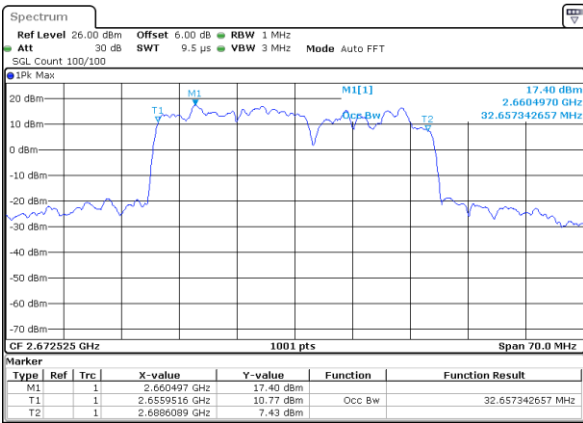
Date: 16 MAY 2020 15:09:38

Middle Channel / 20MHz+20MHz



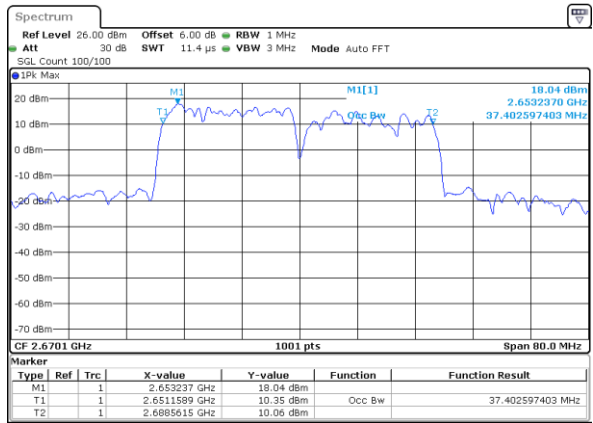
Date: 16 MAY 2020 15:38:20

Highest Channel / 20MHz+15MHz



Date: 16 MAY 2020 15:17:34

Highest Channel / 20MHz+20MHz



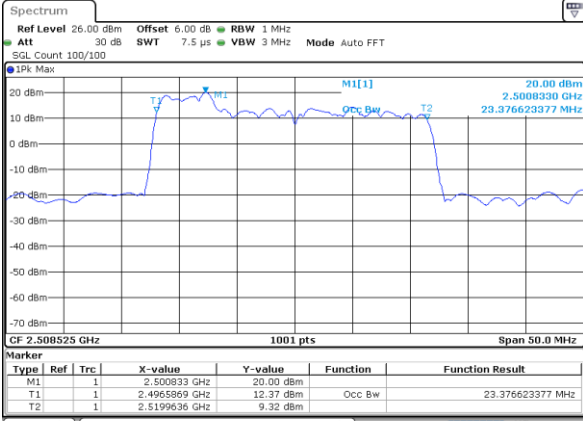
Date: 16 MAY 2020 15:50:07



LTE Band 41

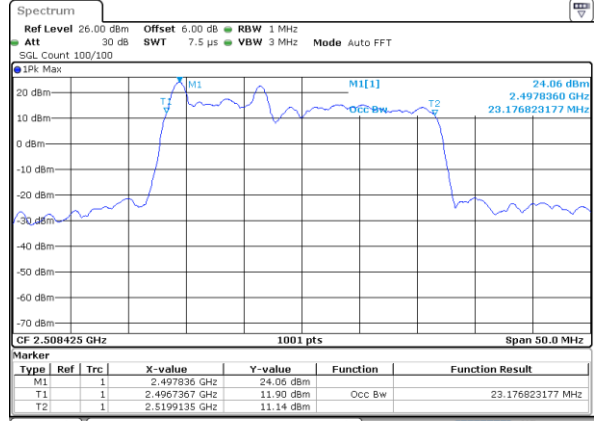
16QAM

Lowest Channel / 5MHz+20MHz



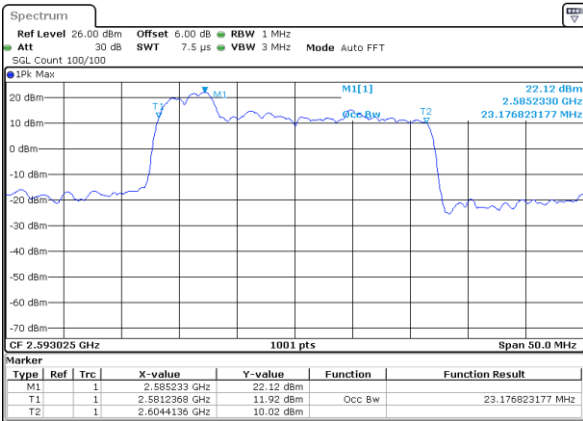
Date: 15 MAY 2020 14:30:21

Lowest Channel / 10MHz+15MHz



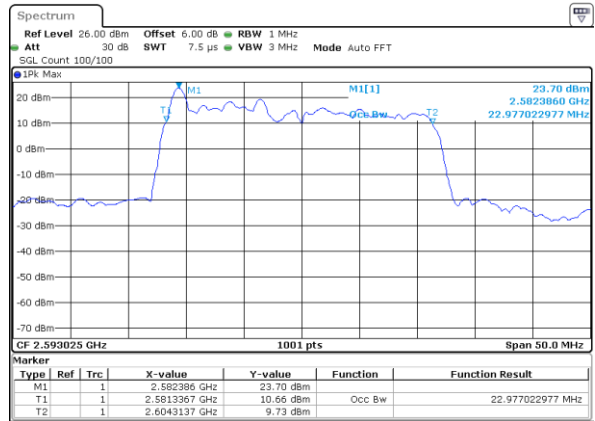
Date: 15 MAY 2020 15:46:15

Middle Channel / 5MHz+20MHz



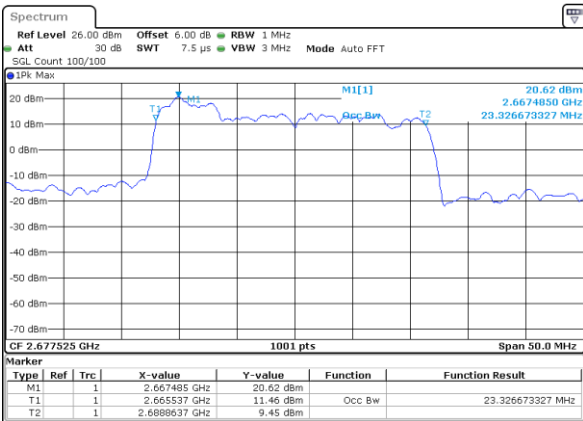
Date: 15 MAY 2020 14:36:17

Middle Channel / 10MHz+15MHz



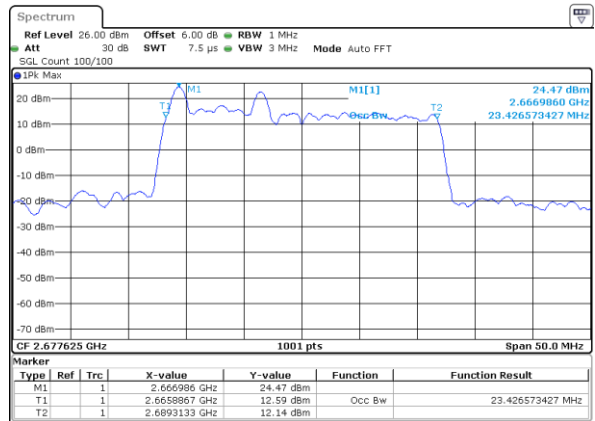
Date: 15 MAY 2020 15:51:40

Highest Channel / 5MHz+20MHz



Date: 15 MAY 2020 14:44:15

Highest Channel / 10MHz+15MHz



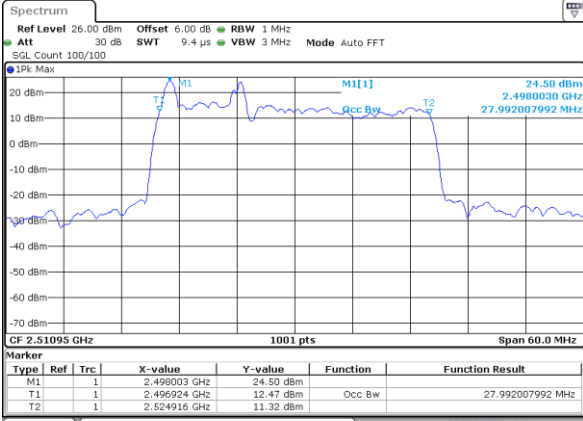
Date: 15 MAY 2020 15:58:56



LTE Band 41

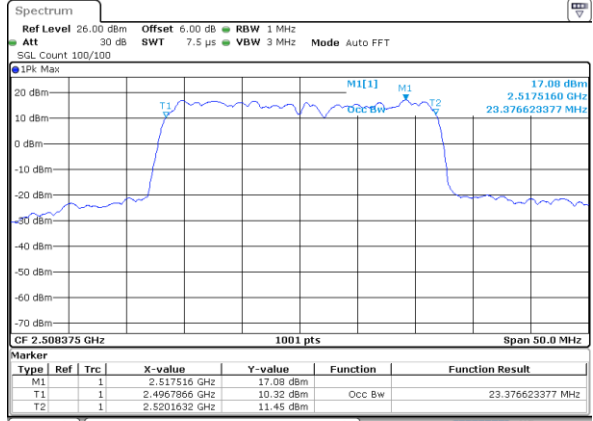
16QAM

Lowest Channel / 10MHz+20MHz



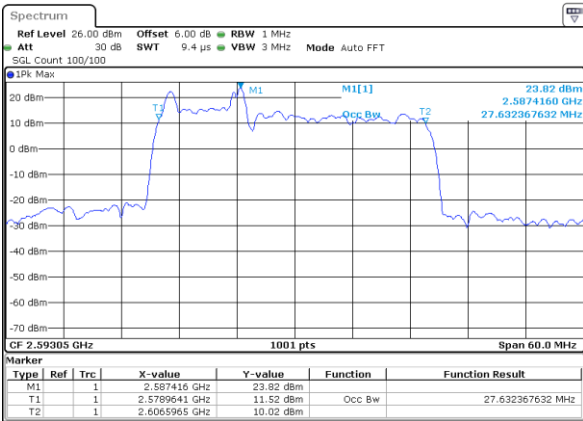
Date: 15 MAY 2020 17:00:20

Lowest Channel / 15MHz+10MHz



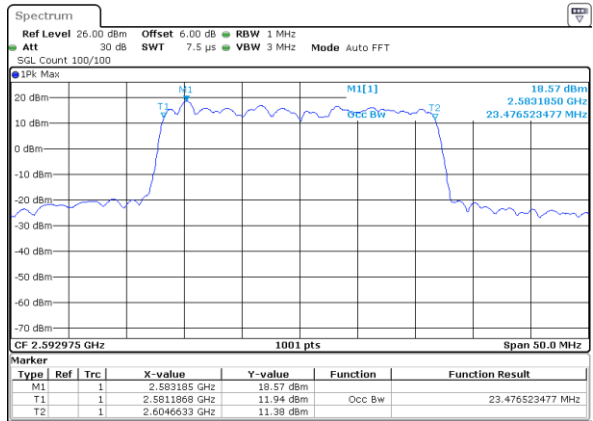
Date: 15 MAY 2020 16:04:48

Middle Channel / 10MHz+20MHz



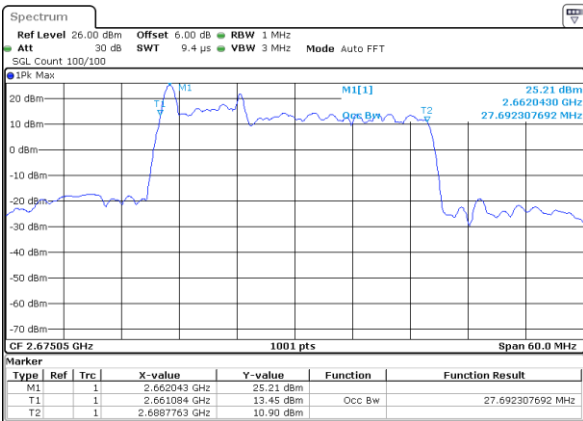
Date: 15 MAY 2020 17:06:47

Middle Channel / 15MHz+10MHz



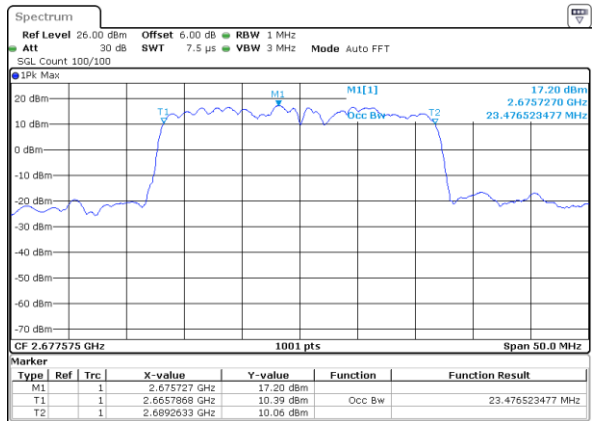
Date: 15 MAY 2020 16:09:31

Highest Channel / 10MHz+20MHz



Date: 15 MAY 2020 17:11:52

Highest Channel / 15MHz+10MHz



Date: 15 MAY 2020 16:14:13