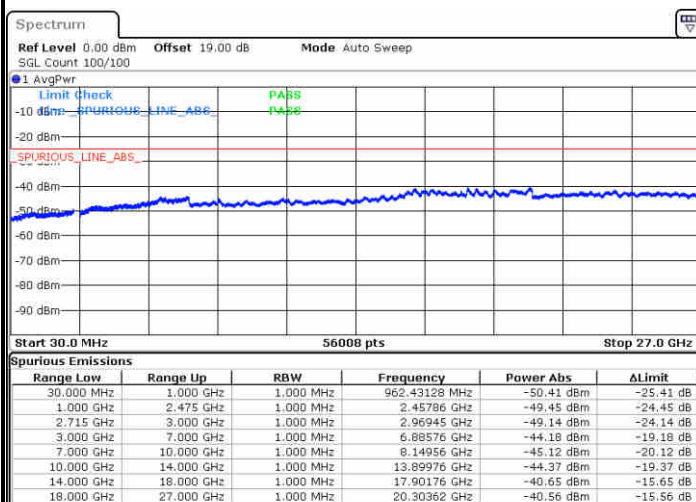




Conducted Spurious Emission

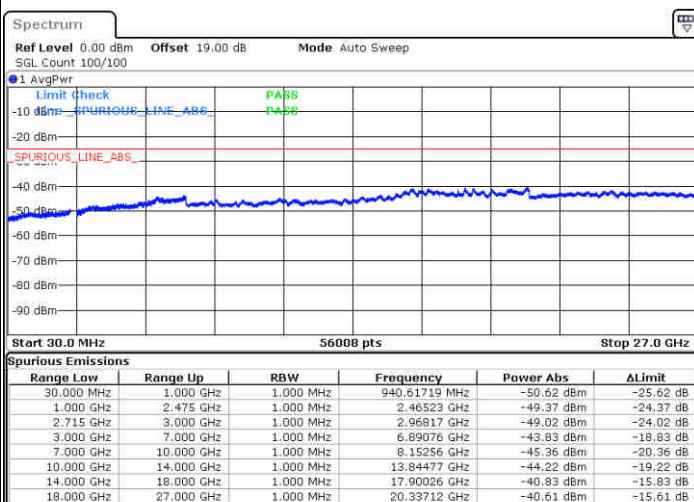
LTE Band 41 / 5MHz

Lowest Channel / QPSK



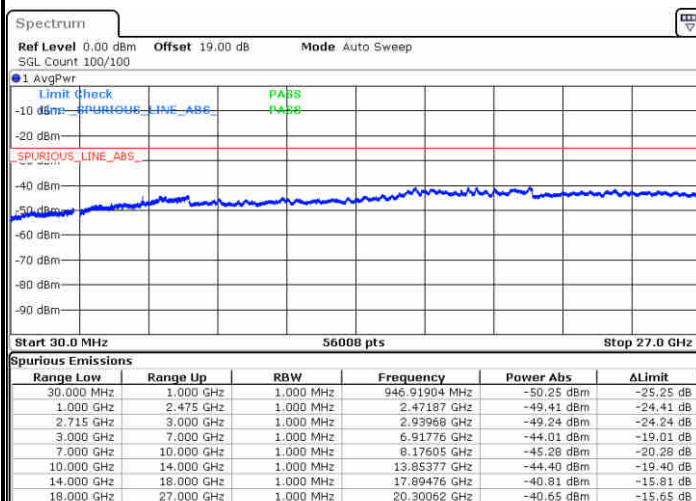
Date: 22 JUN 2020 14:48:57

Lowest Channel / 16QAM



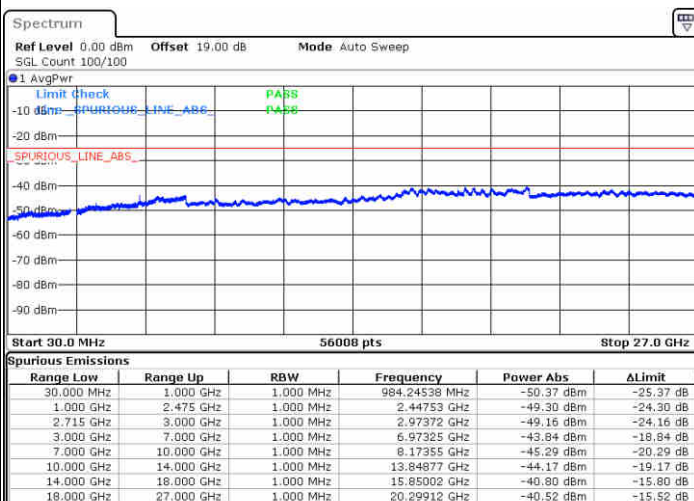
Date: 22 JUN 2020 14:49:47

Middle Channel / QPSK



Date: 22 JUN 2020 14:50:37

Middle Channel / 16QAM

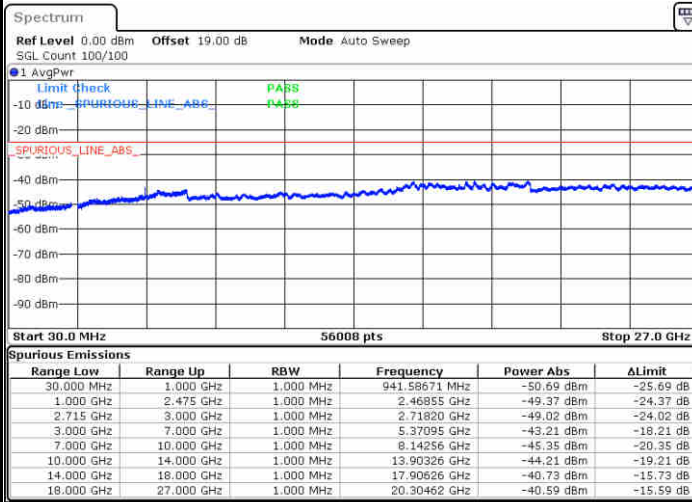


Date: 22 JUN 2020 14:51:27



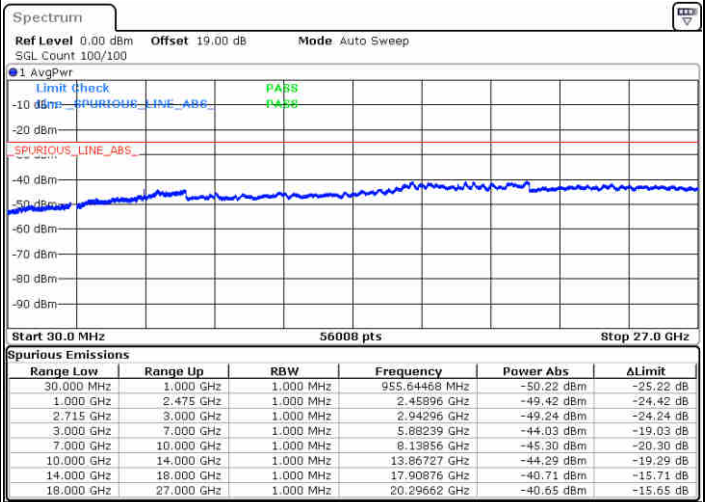
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 22 JUN 2020 14:52:17

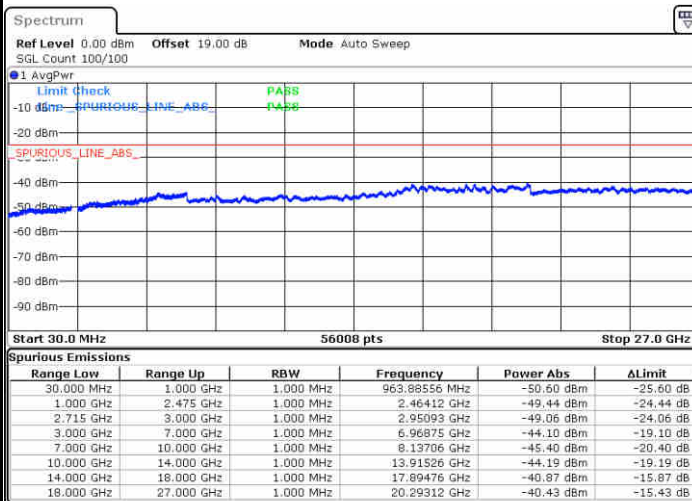
Highest Channel / 16QAM



Date: 22 JUN 2020 14:53:07

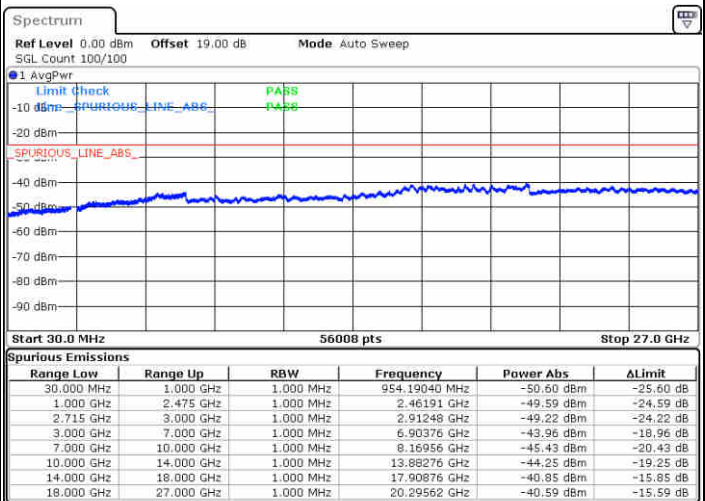
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 22 JUN 2020 14:58:57

Lowest Channel / 16QAM

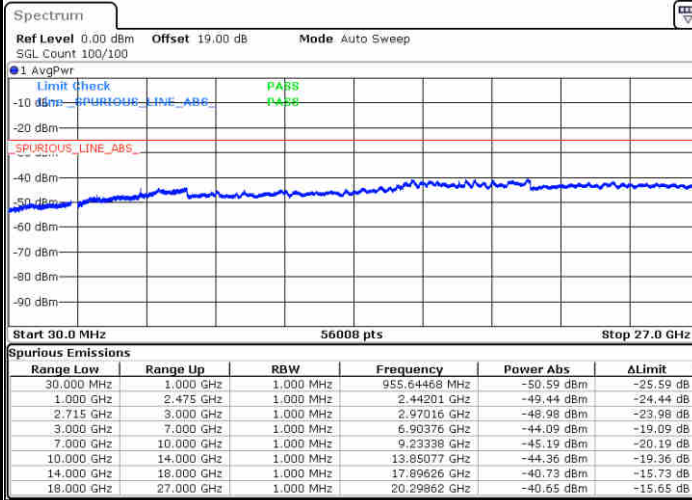


Date: 22 JUN 2020 14:59:47



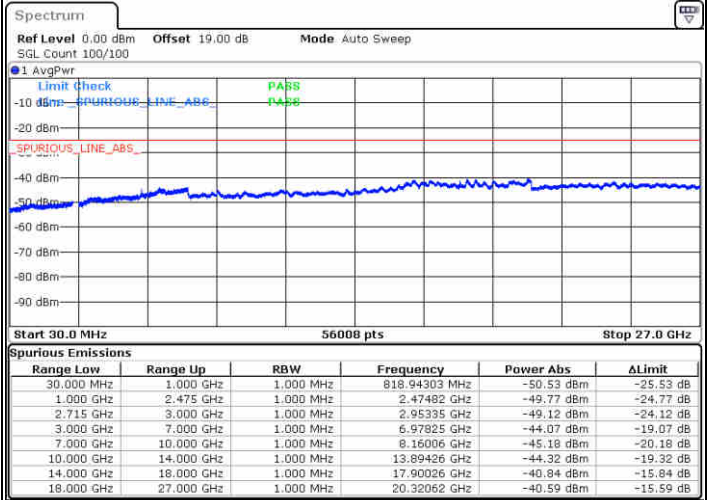
LTE Band 41 / 10MHz

Middle Channel / QPSK



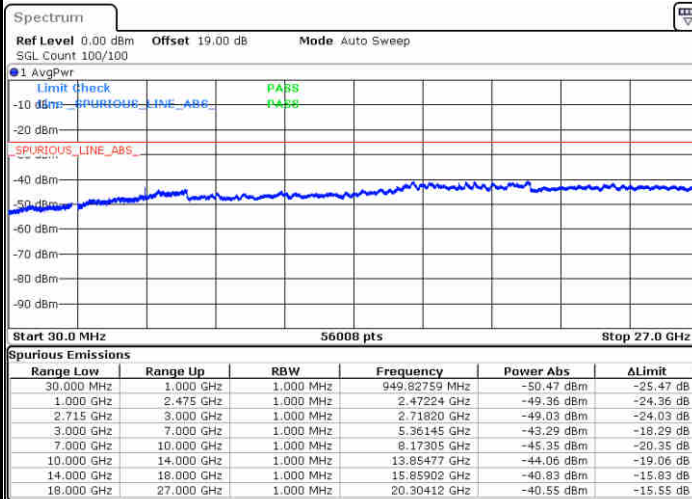
Date: 22 JUN 2020 15:00:37

Middle Channel / 16QAM



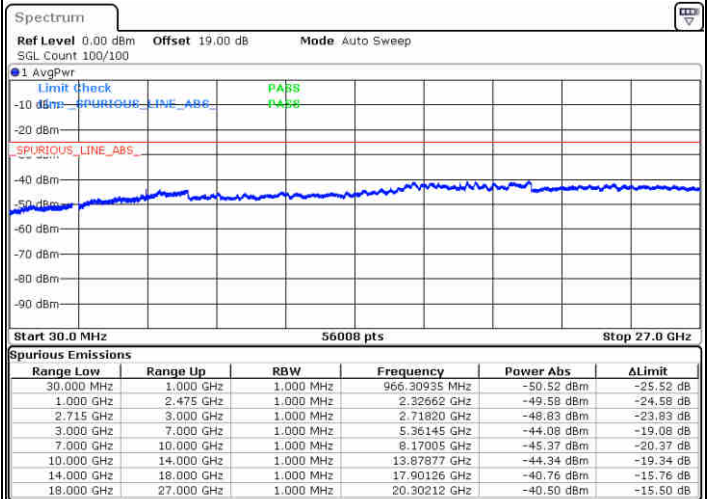
Date: 22 JUN 2020 15:01:27

Highest Channel / QPSK



Date: 22 JUN 2020 15:02:17

Highest Channel / 16QAM

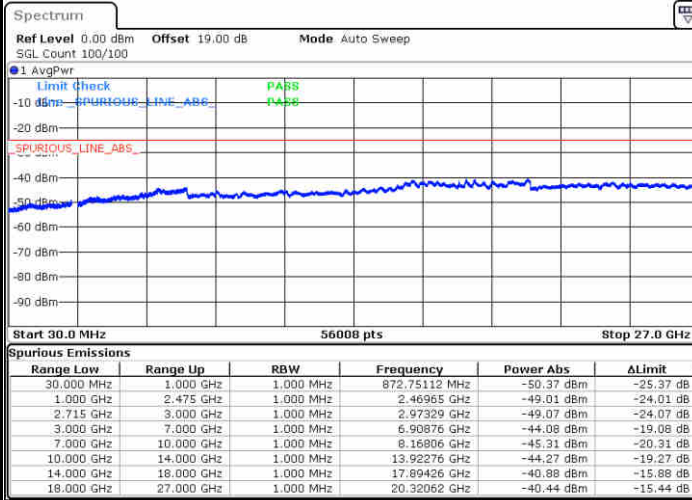


Date: 22 JUN 2020 15:03:06



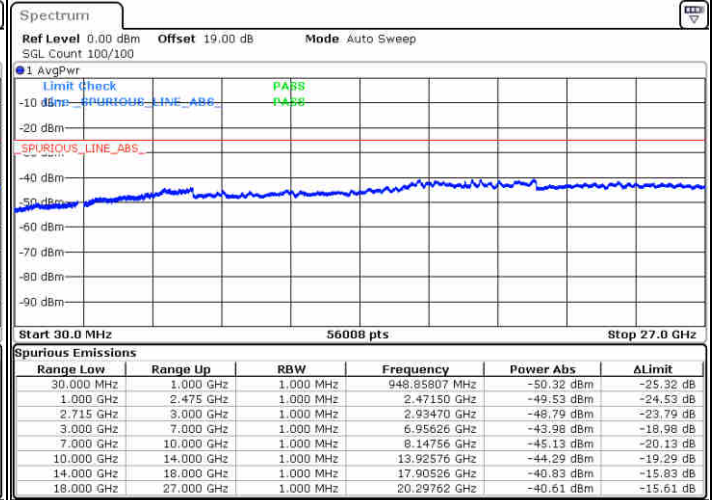
LTE Band 41 / 15MHz

Lowest Channel / QPSK



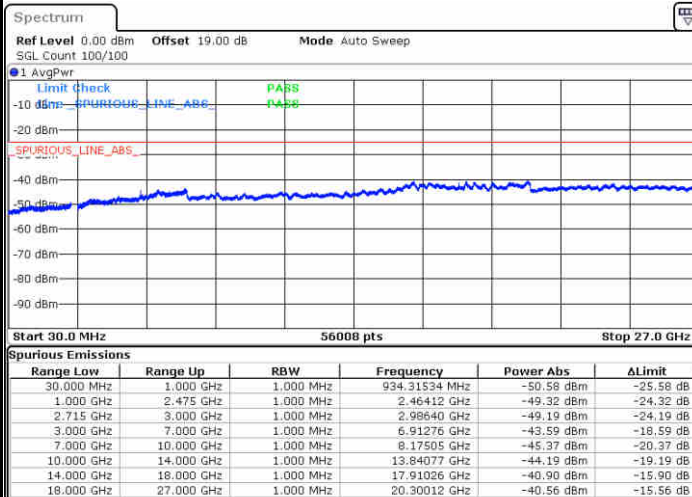
Date: 22 JUN 2020 15:03:56

Lowest Channel / 16QAM



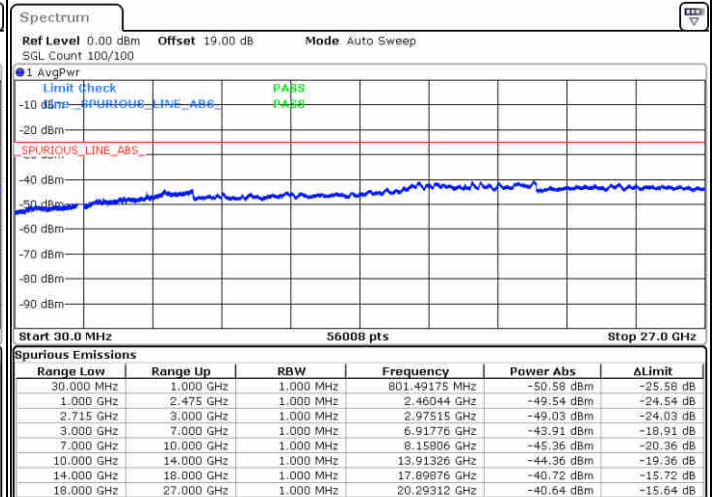
Date: 22 JUN 2020 15:04:46

Middle Channel / QPSK



Date: 22 JUN 2020 15:05:36

Middle Channel / 16QAM

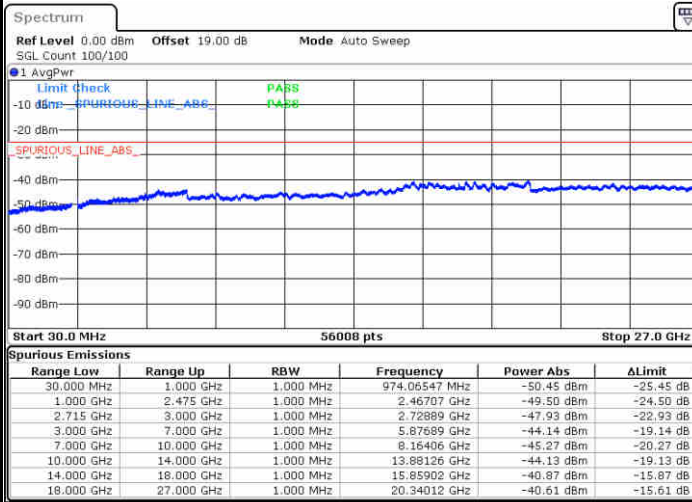


Date: 22 JUN 2020 15:06:26



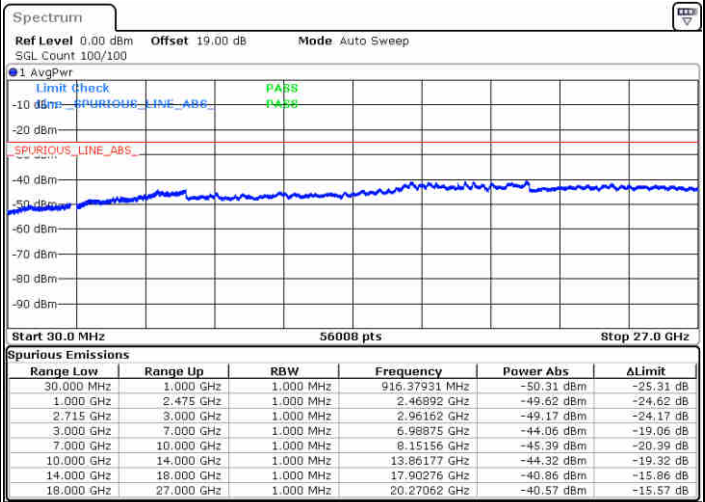
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 22 JUN 2020 15:07:16

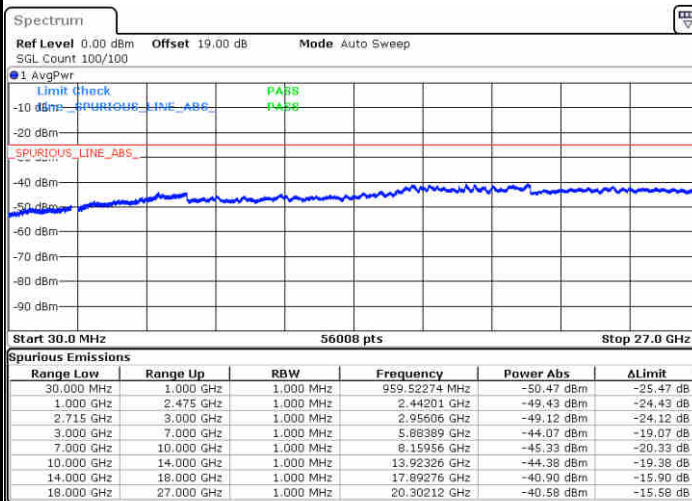
Highest Channel / 16QAM



Date: 22 JUN 2020 15:08:06

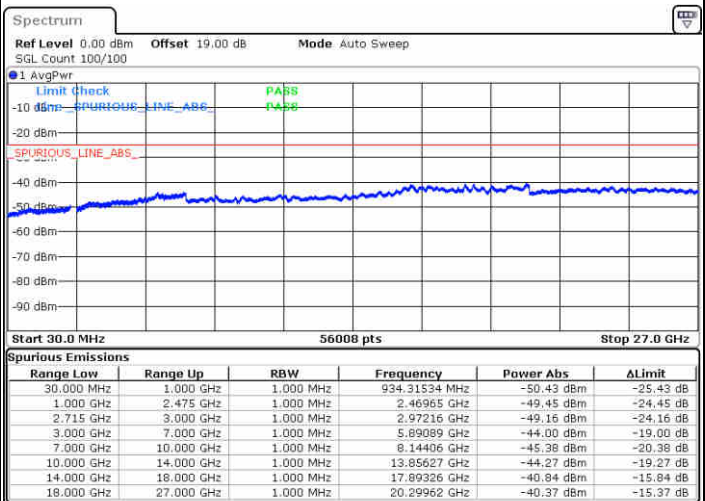
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 22 JUN 2020 15:11:26

Lowest Channel / 16QAM

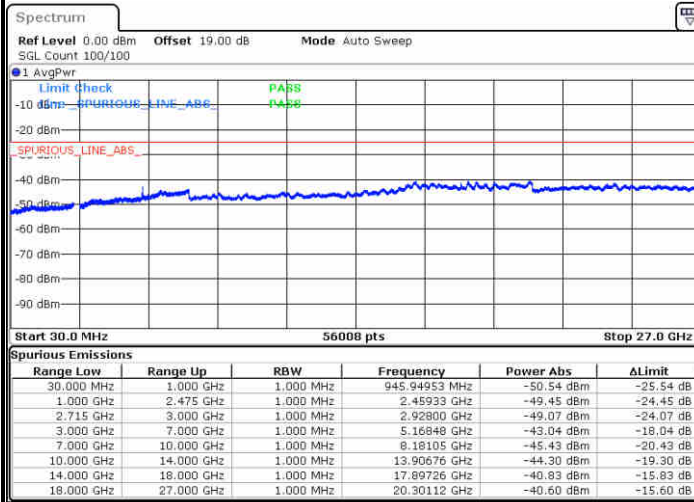


Date: 22 JUN 2020 15:12:16



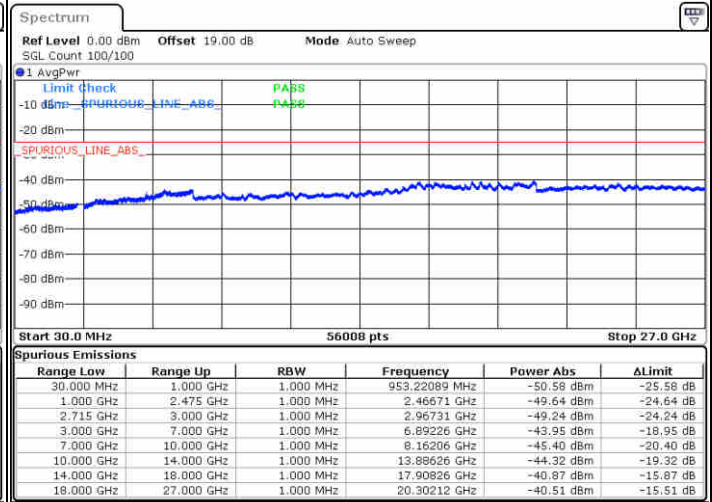
LTE Band 41 / 20MHz

Middle Channel / QPSK



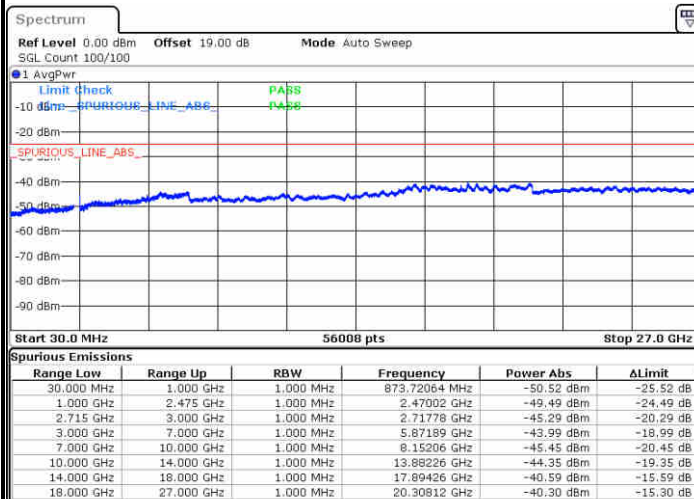
Date: 22 JUN 2020 15:13:06

Middle Channel / 16QAM



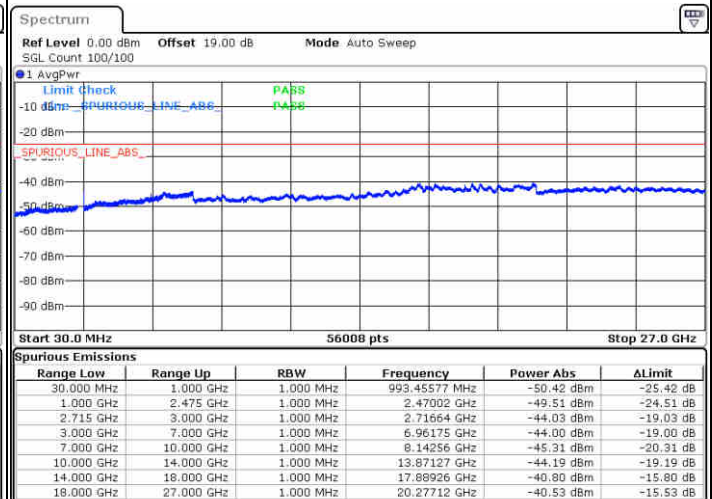
Date: 22 JUN 2020 15:13:56

Highest Channel / QPSK



Date: 22 JUN 2020 15:14:46

Highest Channel / 16QAM

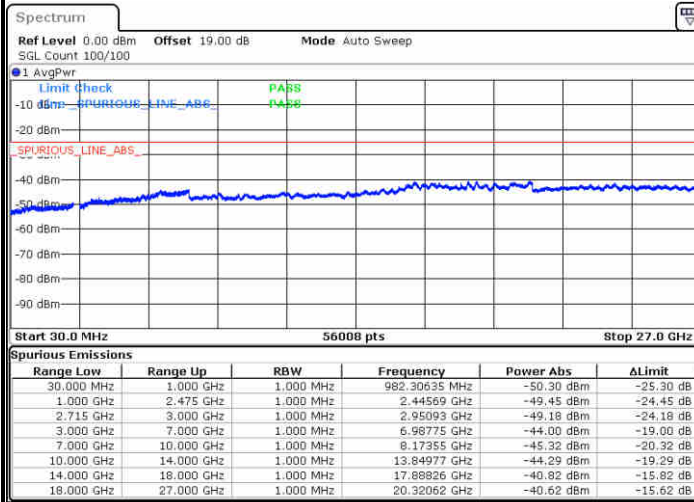


Date: 22 JUN 2020 15:15:36



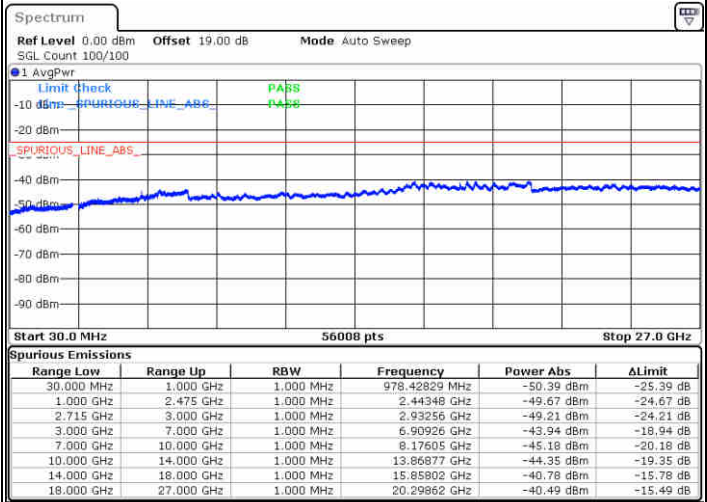
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



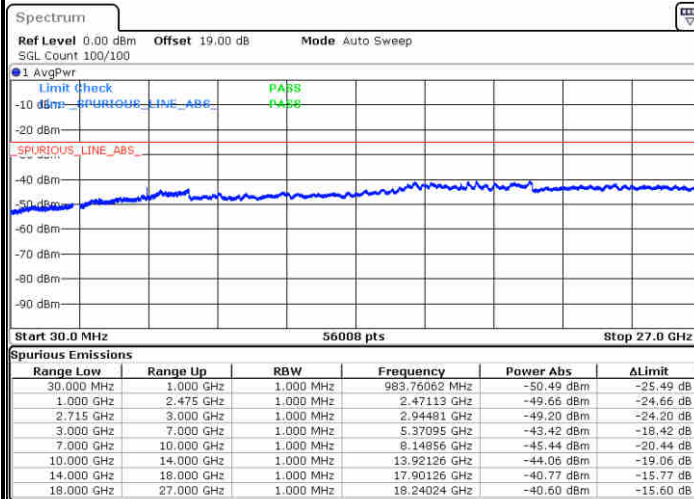
Date: 22 JUN 2020 14:53:57

Middle Channel / 64QAM



Date: 22 JUN 2020 14:54:47

Highest Channel / 64QAM

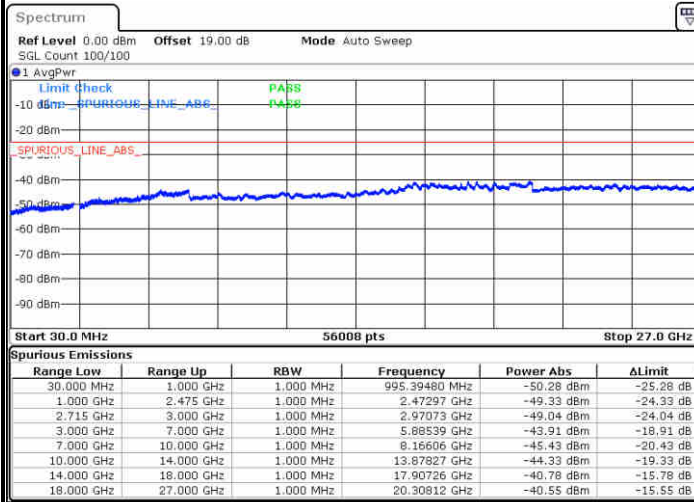


Date: 22 JUN 2020 14:55:37



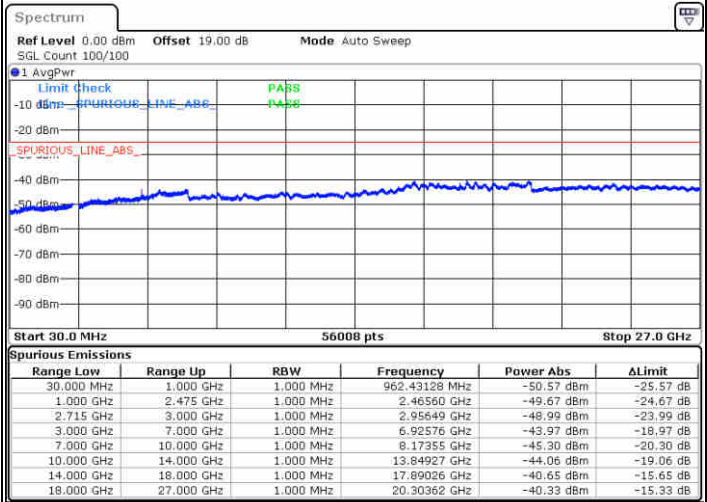
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



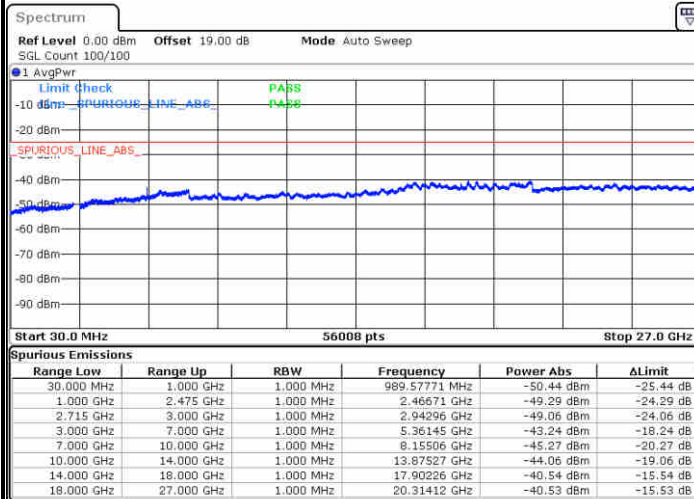
Date: 22 JUN 2020 14:56:27

Middle Channel / 64QAM



Date: 22 JUN 2020 14:57:17

Highest Channel / 64QAM

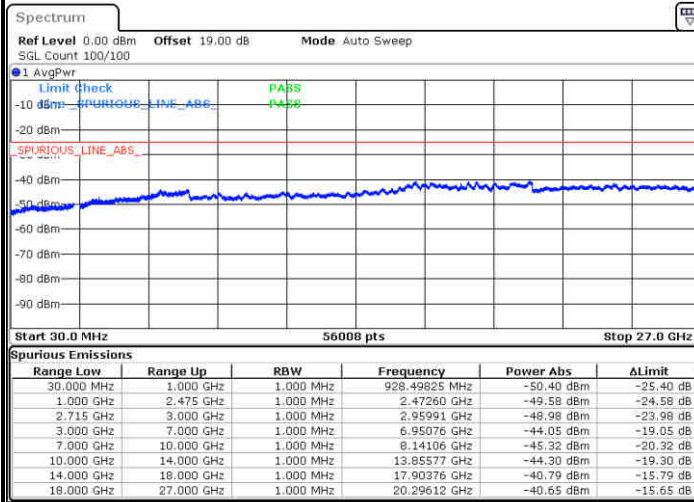


Date: 22 JUN 2020 14:58:07



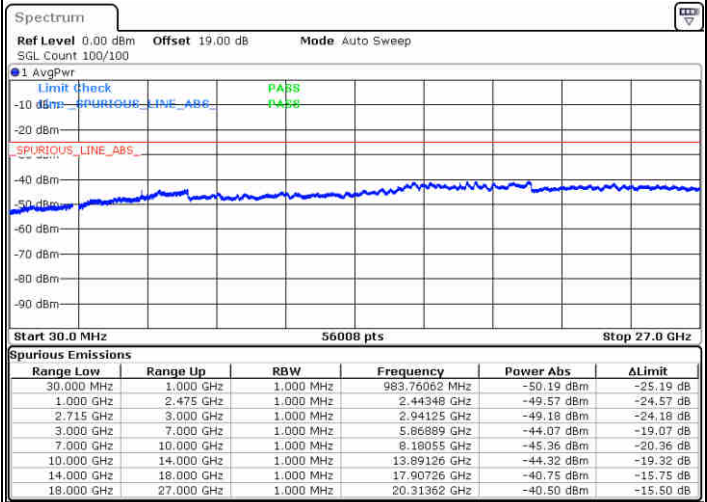
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



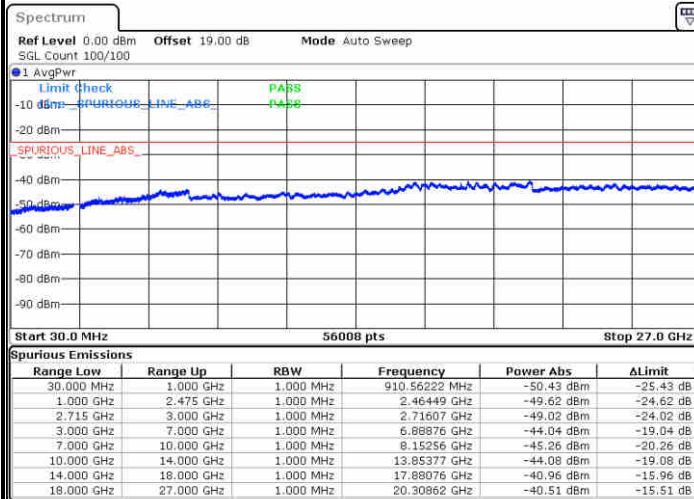
Date: 22 JUN 2020 15:08:56

Middle Channel / 64QAM



Date: 22 JUN 2020 15:09:46

Highest Channel / 64QAM

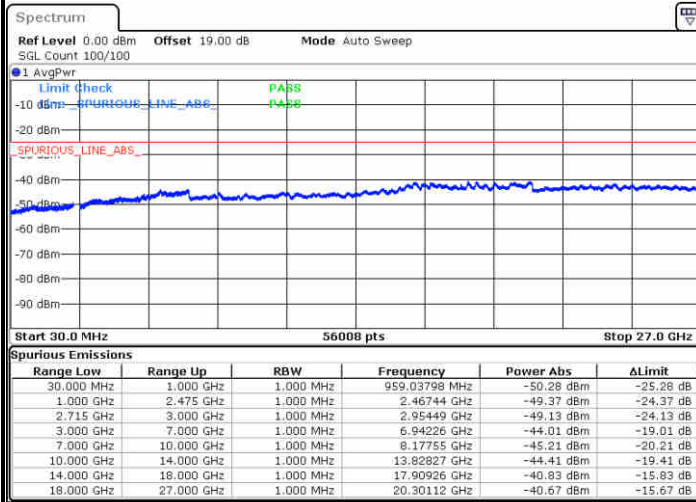


Date: 22 JUN 2020 15:10:36



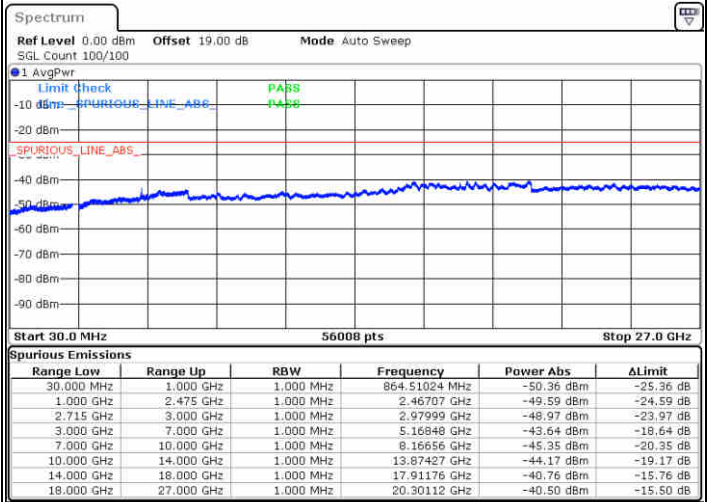
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



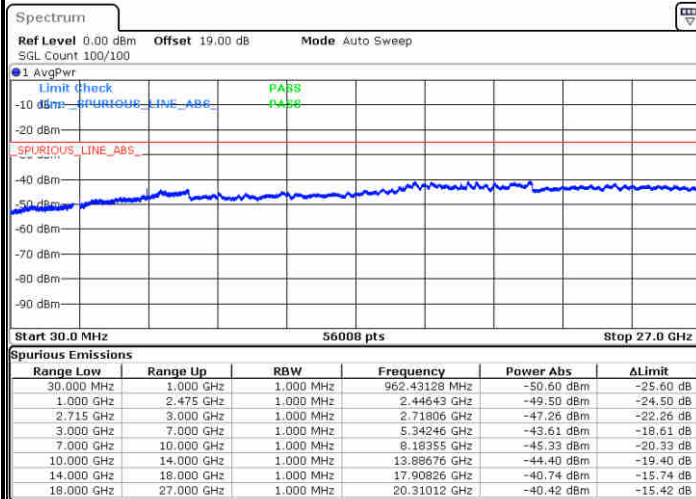
Date: 22 JUN 2020 15:16:26

Middle Channel / 64QAM



Date: 22 JUN 2020 15:17:15

Highest Channel / 64QAM



Date: 22 JUN 2020 15:18:05

**Frequency Stability**

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C_CA

26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	N/A	15MHz+10MHz	15MHz+15MHz
Lowest CH	30.21	-	25.72	30.69
Middle CH	29.91	-	26.27	30.57
Highest CH	29.79	-	25.48	30.87
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.83	30.09	35.04	39.72
Middle CH	34.76	30.21	34.90	39.96
Highest CH	34.83	30.09	34.90	40.04

Mode	LTE Band 7 : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	N/A	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.85	-	25.38	30.63
Middle CH	29.91	-	25.48	30.63
Highest CH	29.85	-	25.33	30.51
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.97	30.09	34.97	39.80
Middle CH	34.76	29.97	34.76	39.64
Highest CH	34.90	30.09	35.04	39.88

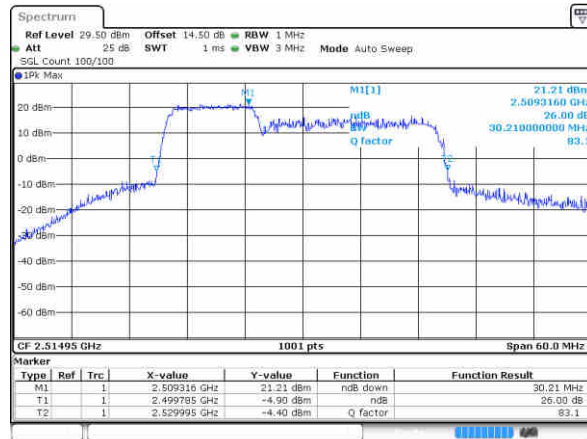
Mode	LTE Band 7 : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	N/A	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.91	-	25.48	30.63
Middle CH	29.97	-	25.43	30.57
Highest CH	29.85	-	25.38	30.57
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.83	30.15	34.97	39.56
Middle CH	34.62	30.09	34.83	39.72
Highest CH	34.76	30.15	34.83	39.88



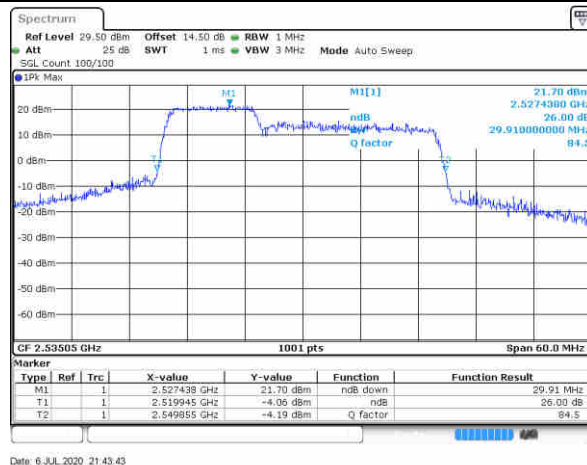
LTE Band 7

QPSK

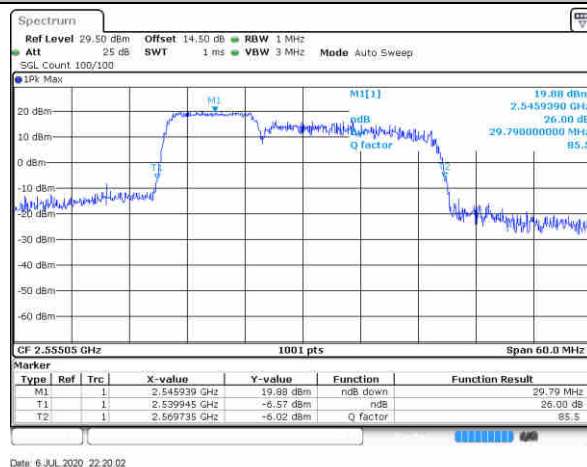
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

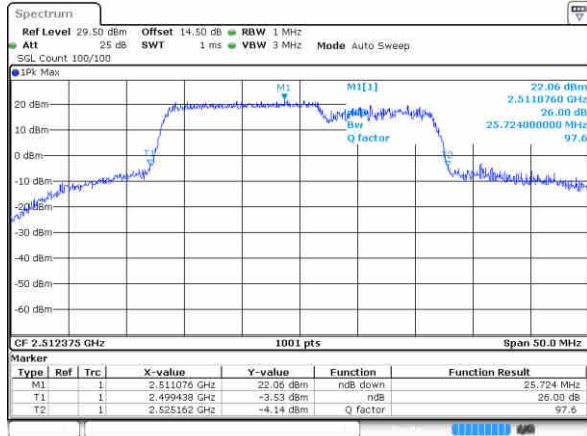




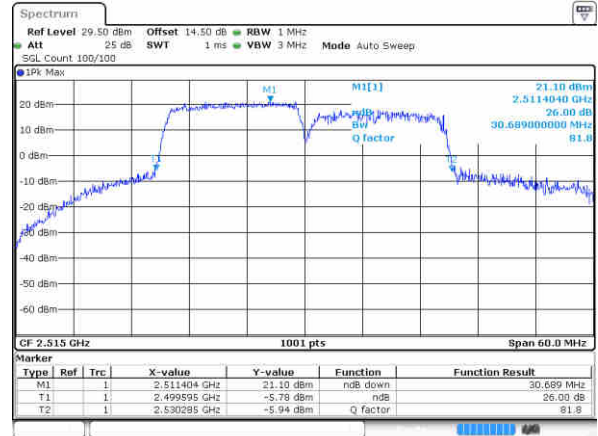
LTE Band 7

QPSK

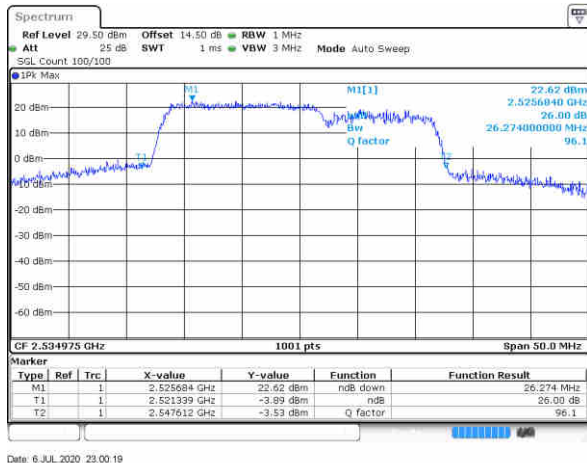
Lowest Channel / 15MHz+10MHz



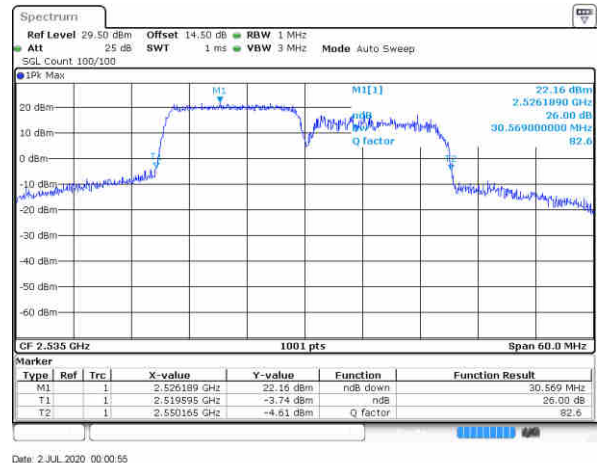
Lowest Channel / 15MHz+15MHz



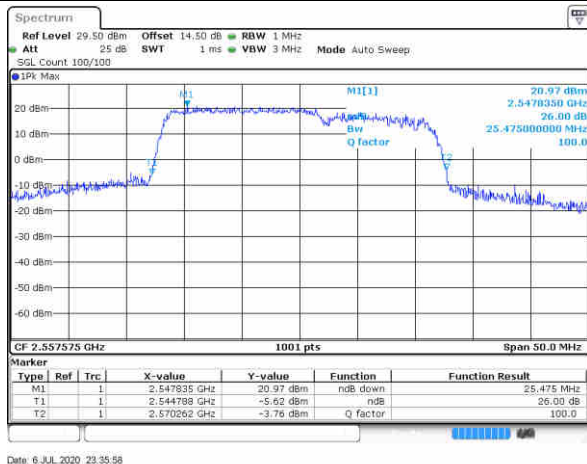
Middle Channel / 15MHz+10MHz



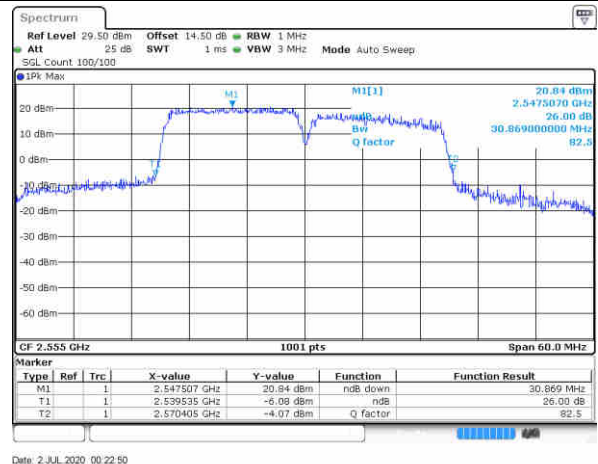
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

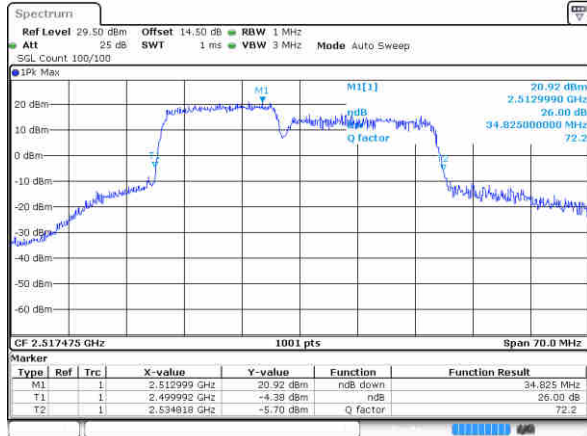




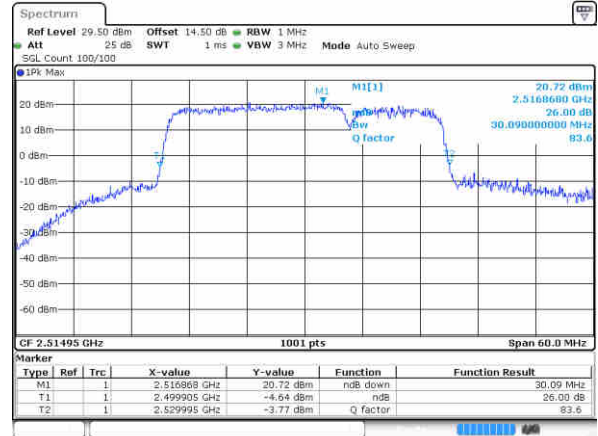
LTE Band 7

QPSK

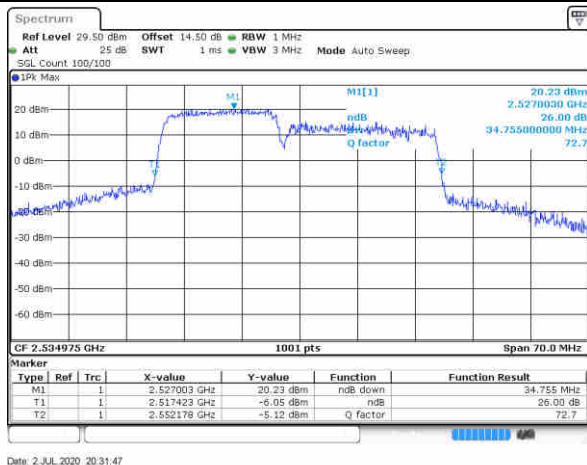
Lowest Channel / 15MHz+20MHz



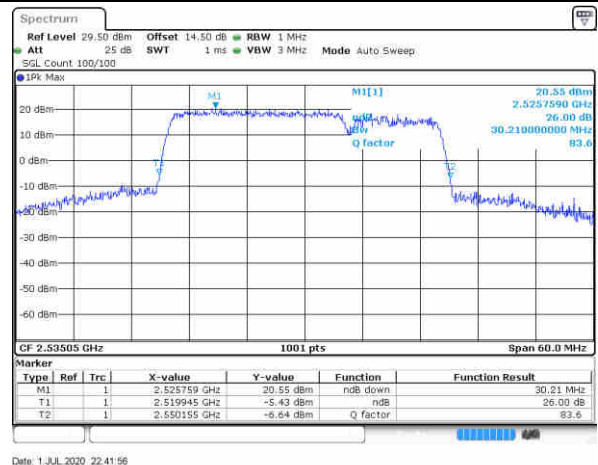
Lowest Channel / 20MHz+10MHz



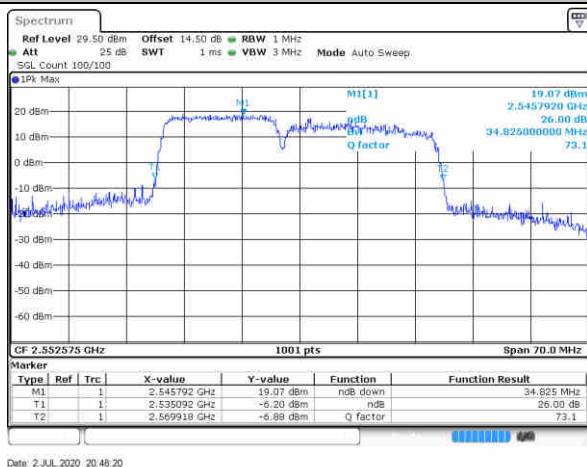
Middle Channel / 15MHz+20MHz



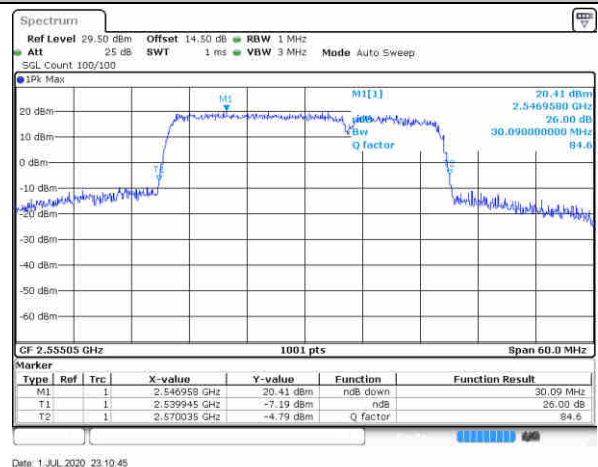
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

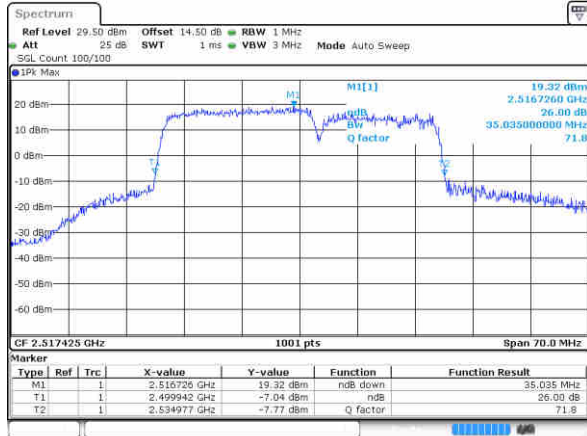




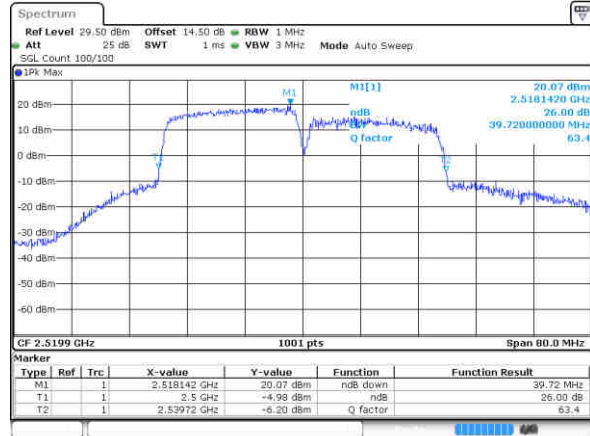
LTE Band 7

QPSK

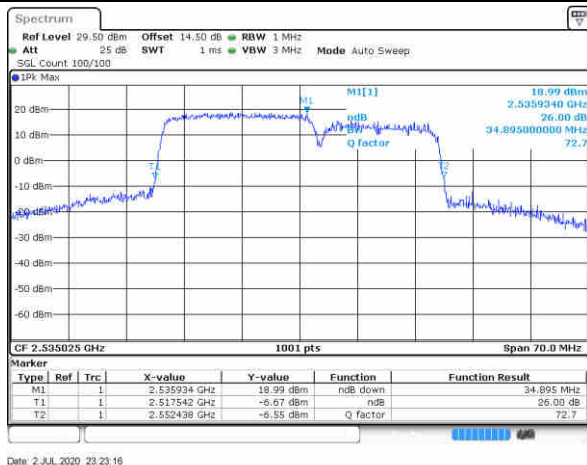
Lowest Channel / 20MHz+15MHz



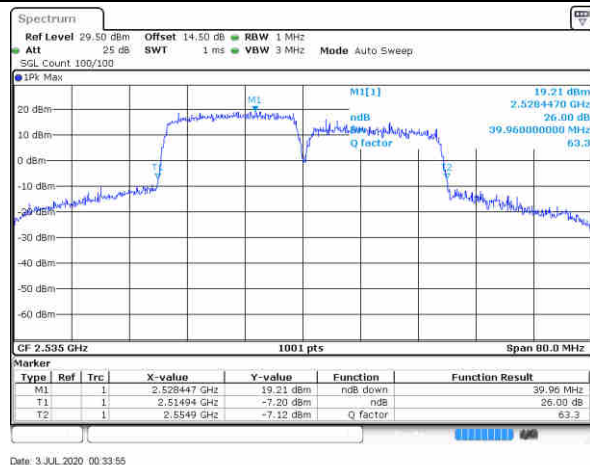
Lowest Channel / 20MHz+20MHz



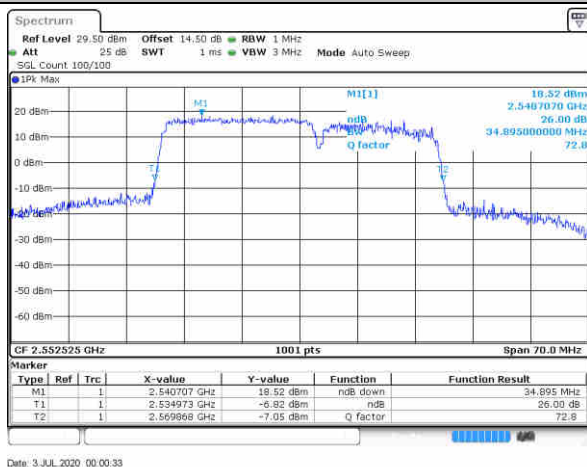
Middle Channel / 20MHz+15MHz



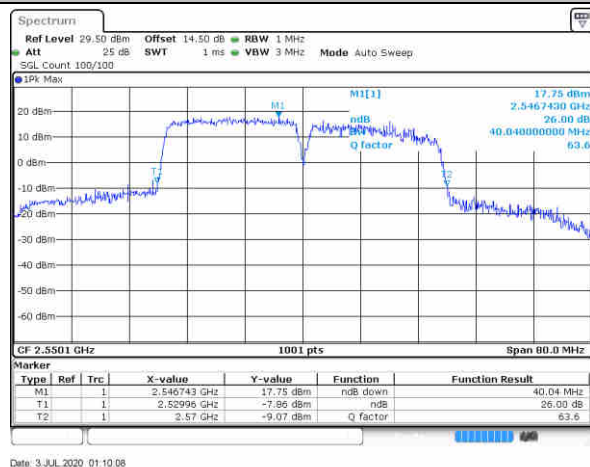
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz

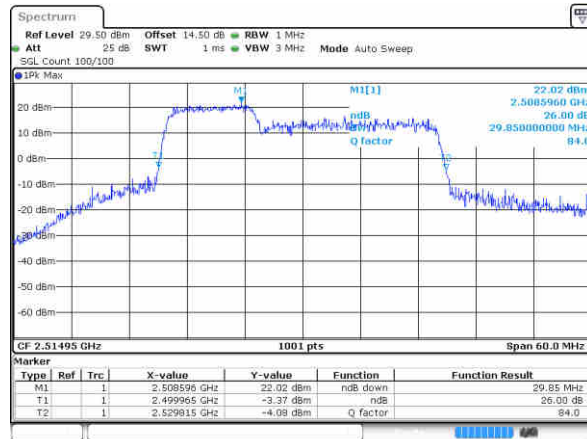




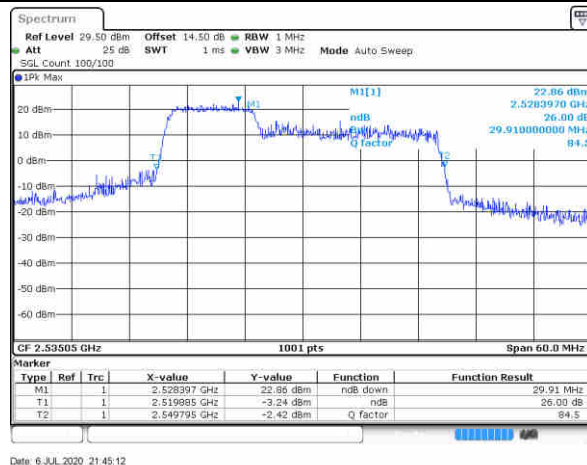
LTE Band 7

16QAM

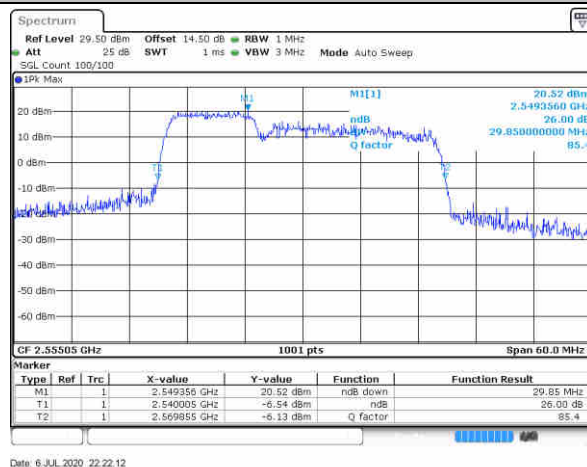
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

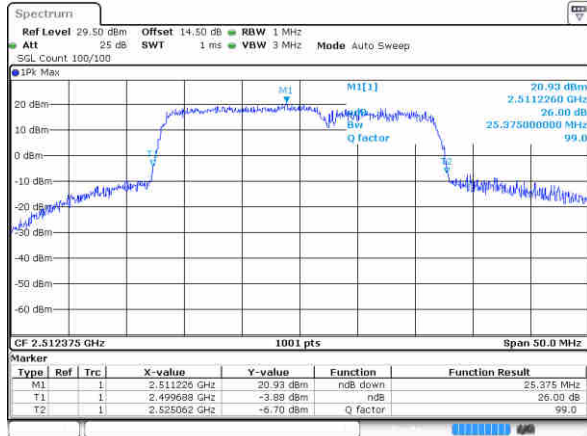




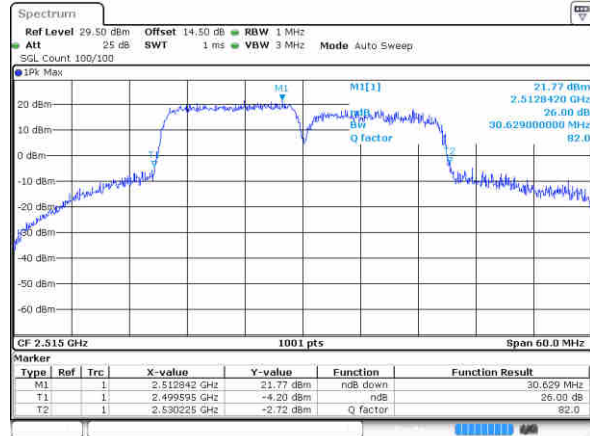
LTE Band 7

16QAM

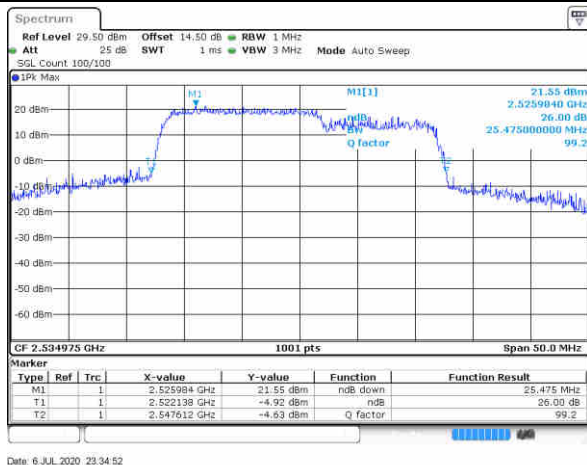
Lowest Channel / 15MHz+10MHz



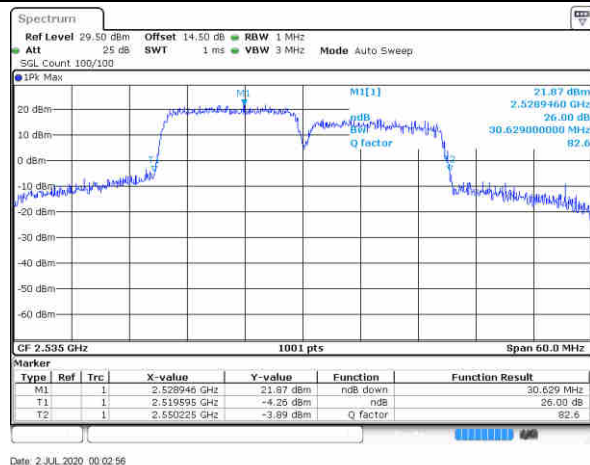
Lowest Channel / 15MHz+15MHz



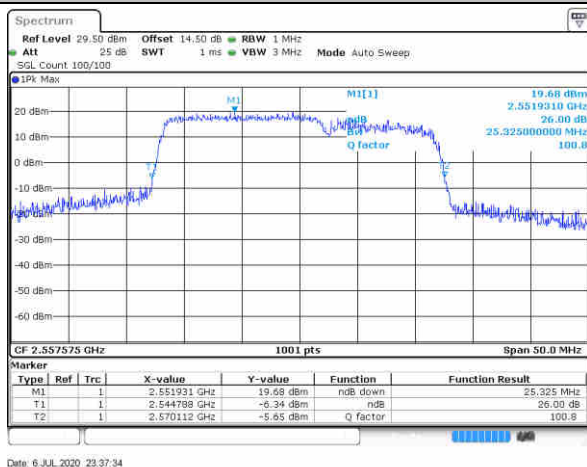
Middle Channel / 15MHz+10MHz



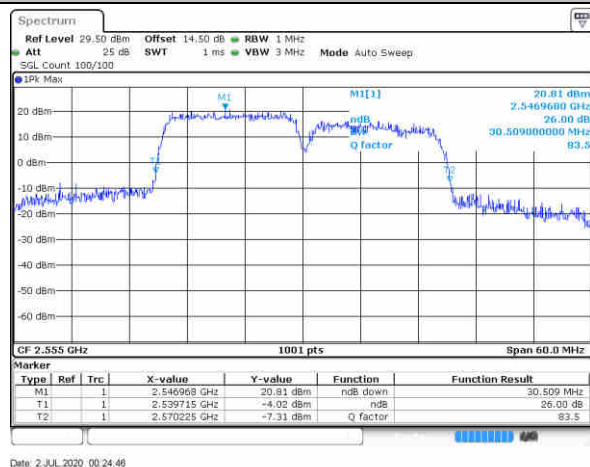
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

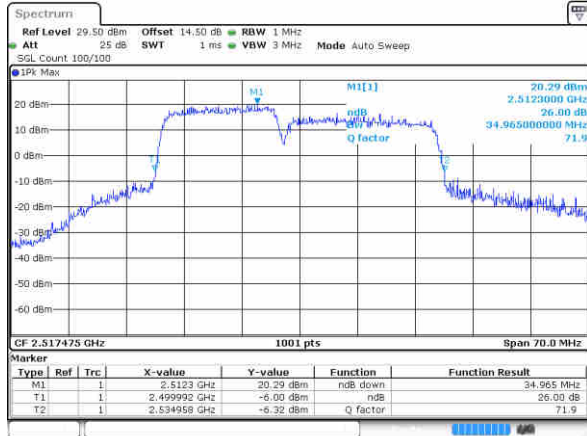




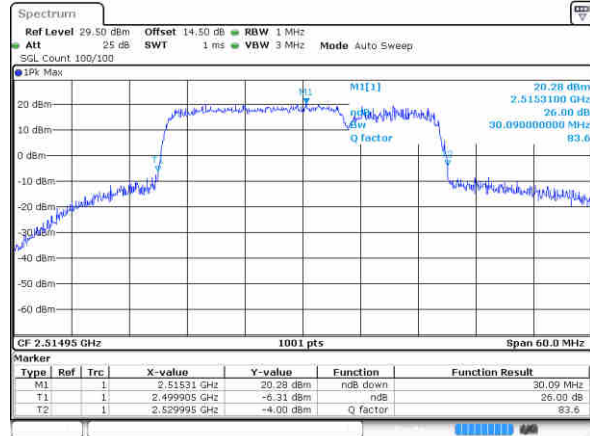
LTE Band 7

16QAM

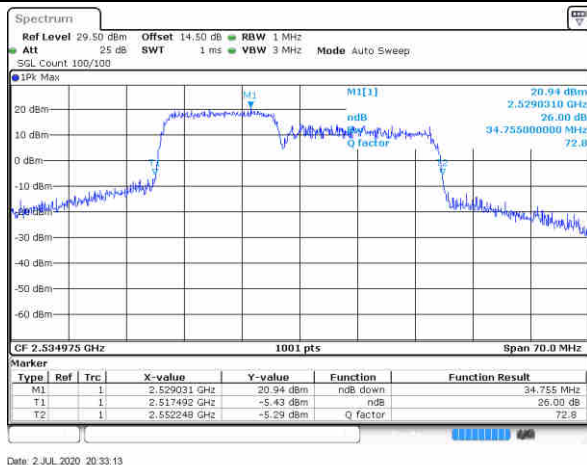
Lowest Channel / 15MHz+20MHz



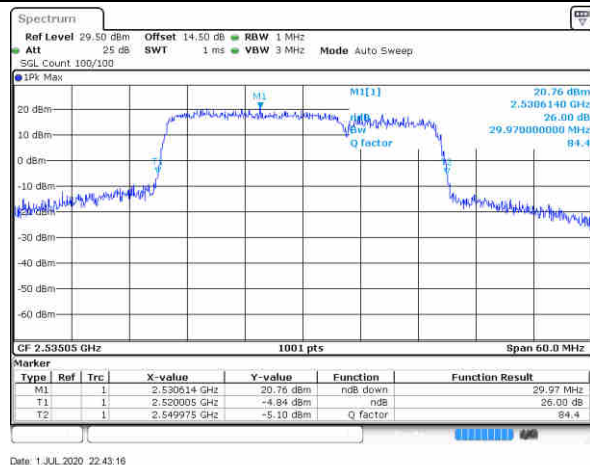
Lowest Channel / 20MHz+10MHz



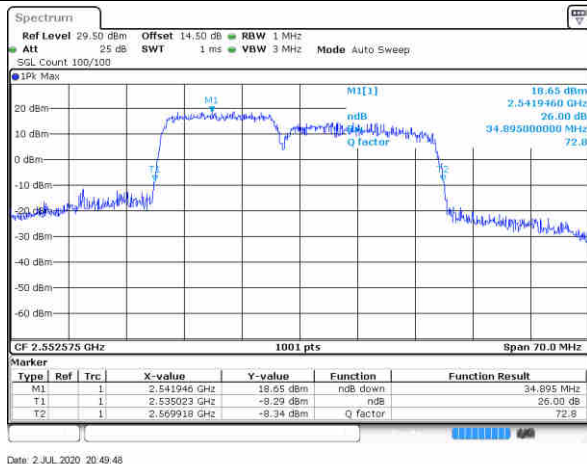
Middle Channel / 15MHz+20MHz



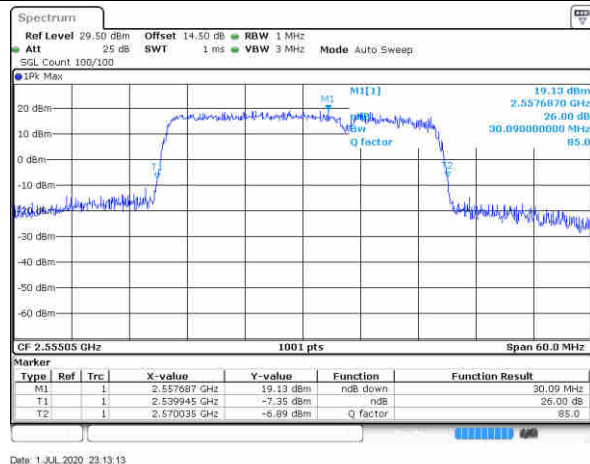
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

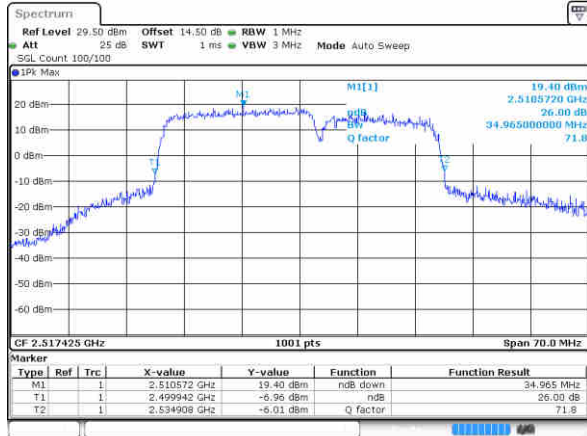




LTE Band 7

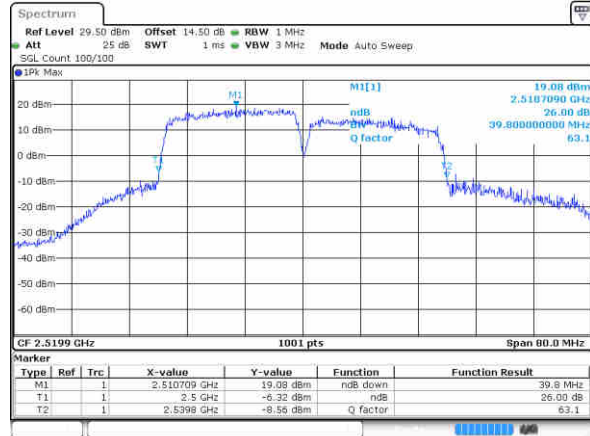
16QAM

Lowest Channel / 20MHz+15MHz



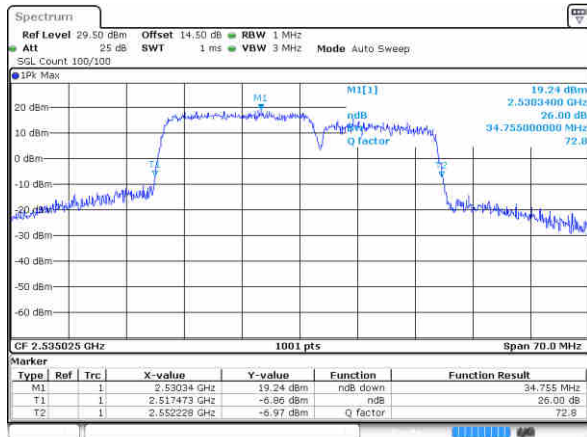
Date: 2 JUL 2020 22:55:44

Lowest Channel / 20MHz+20MHz



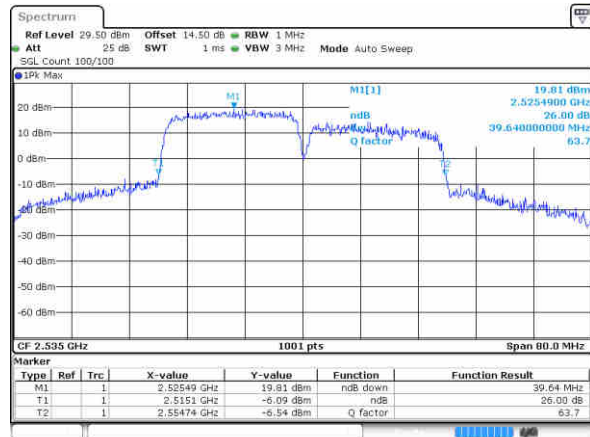
Date: 3 JUL 2020 00:15:16

Middle Channel / 20MHz+15MHz



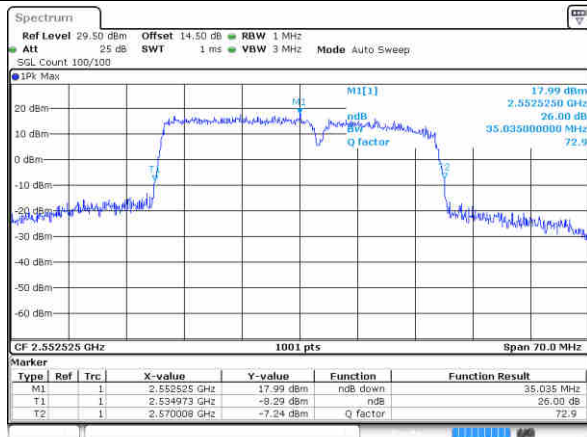
Date: 2 JUL 2020 23:24:54

Middle Channel / 20MHz+20MHz



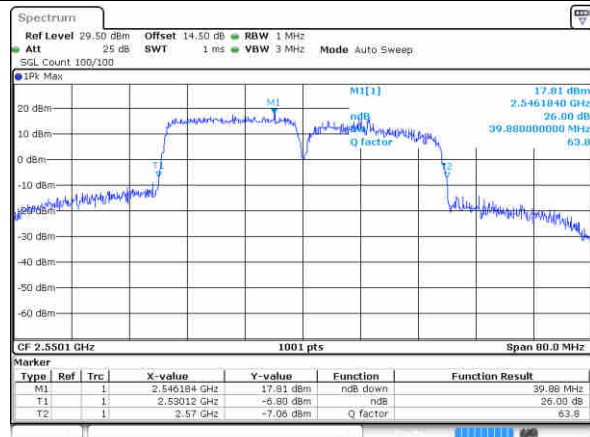
Date: 3 JUL 2020 00:32:36

Highest Channel / 20MHz+15MHz



Date: 3 JUL 2020 00:01:58

Highest Channel / 20MHz+20MHz



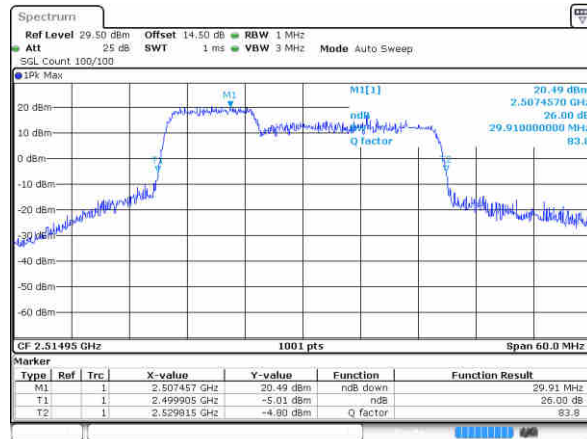
Date: 3 JUL 2020 01:12:40



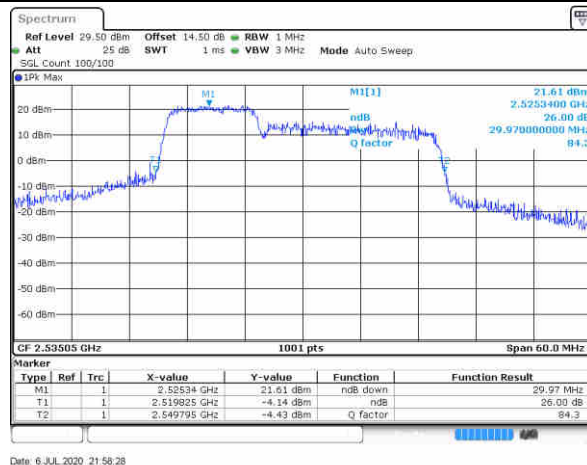
LTE Band 7

64QAM

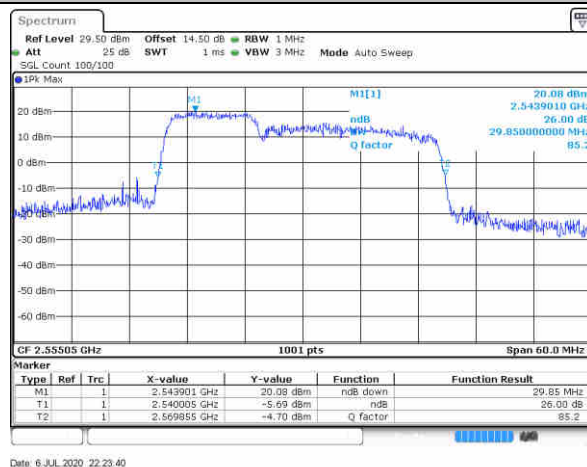
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

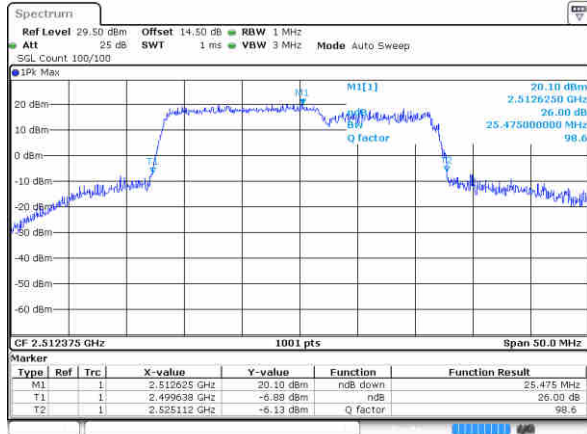




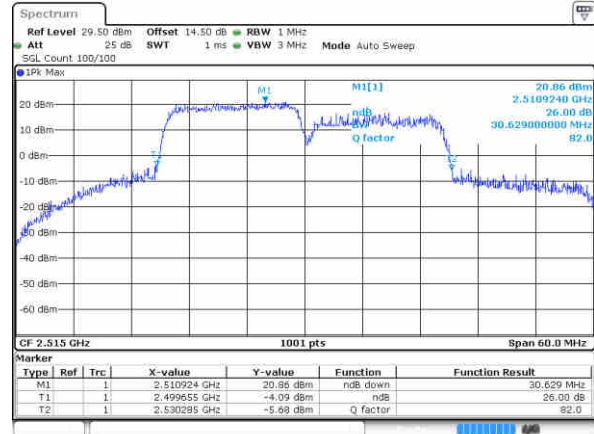
LTE Band 7

64QAM

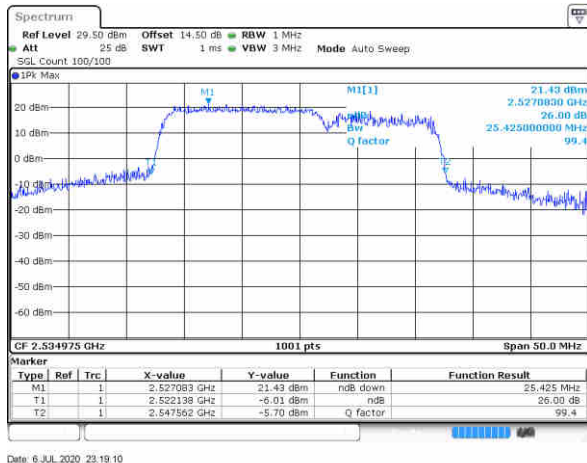
Lowest Channel / 15MHz+10MHz



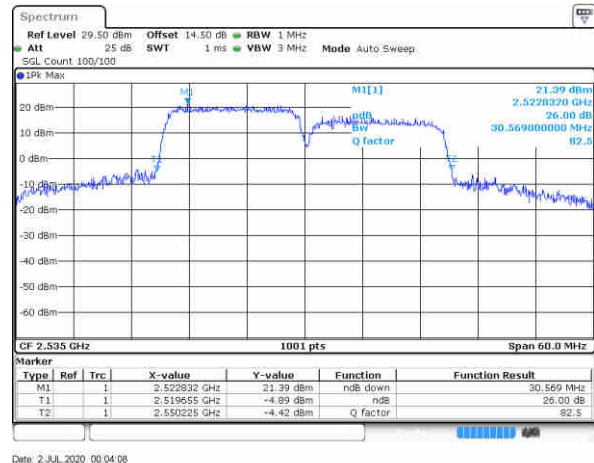
Lowest Channel / 15MHz+15MHz



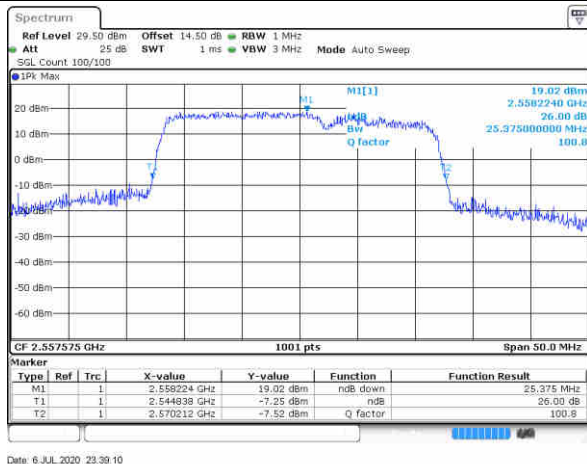
Middle Channel / 15MHz+10MHz



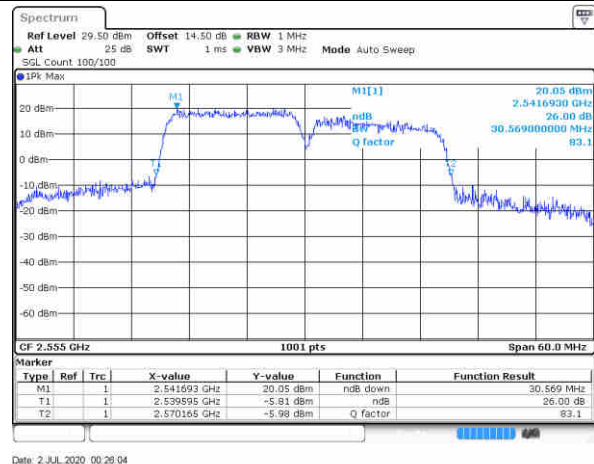
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

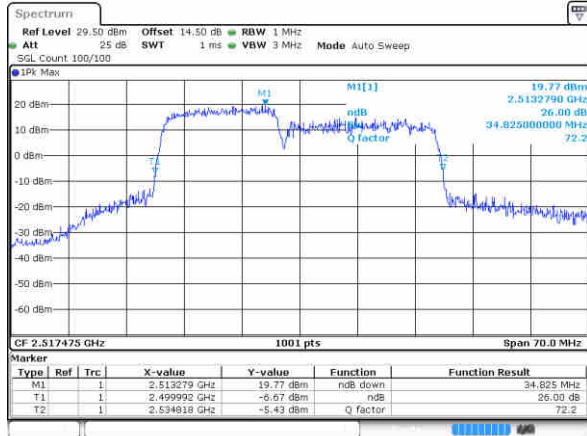




LTE Band 7

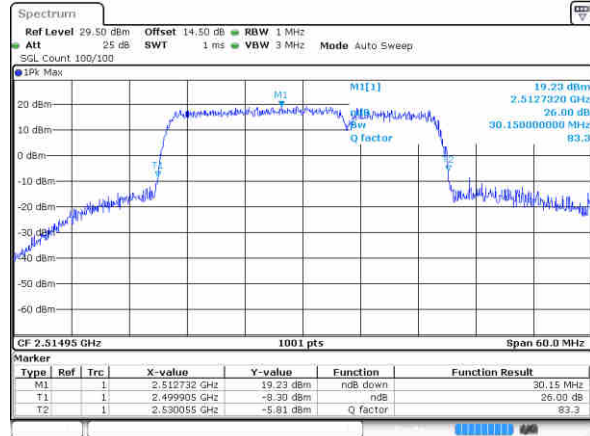
64QAM

Lowest Channel / 15MHz+20MHz



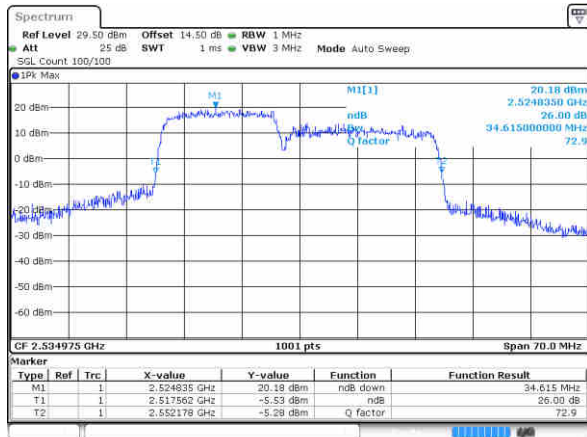
Date: 2 JUL 2020 20:14:47

Lowest Channel / 20MHz+10MHz



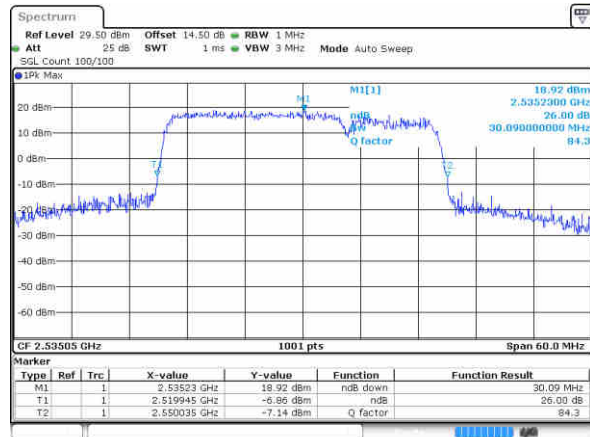
Date: 1 JUL 2020 22:23:56

Middle Channel / 15MHz+20MHz



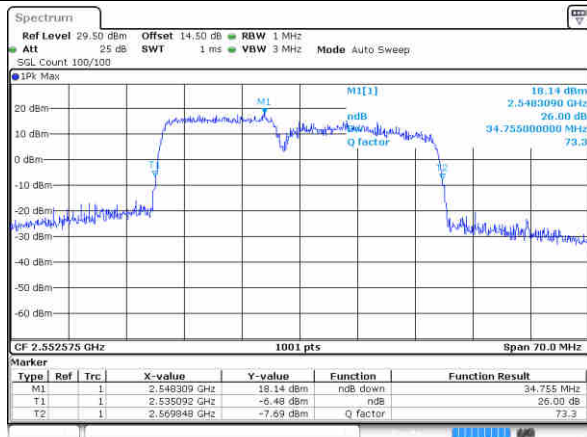
Date: 2 JUL 2020 20:34:33

Middle Channel / 20MHz+10MHz



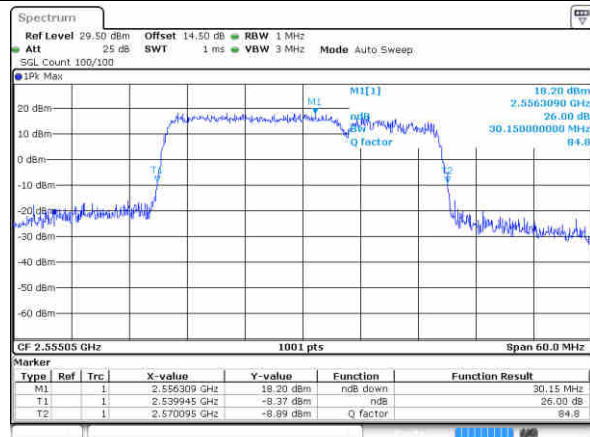
Date: 1 JUL 2020 22:59:43

Highest Channel / 15MHz+20MHz



Date: 2 JUL 2020 20:52:31

Highest Channel / 20MHz+10MHz



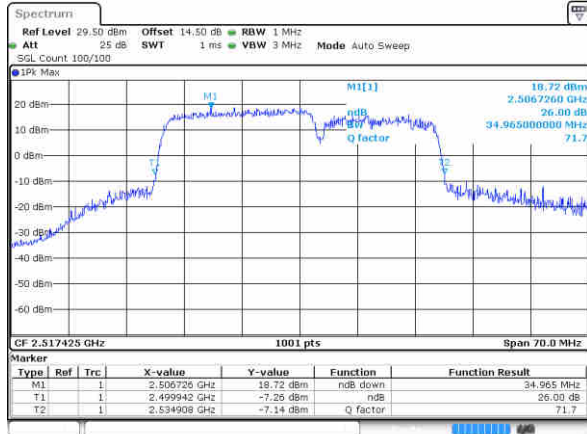
Date: 1 JUL 2020 23:14:55



LTE Band 7

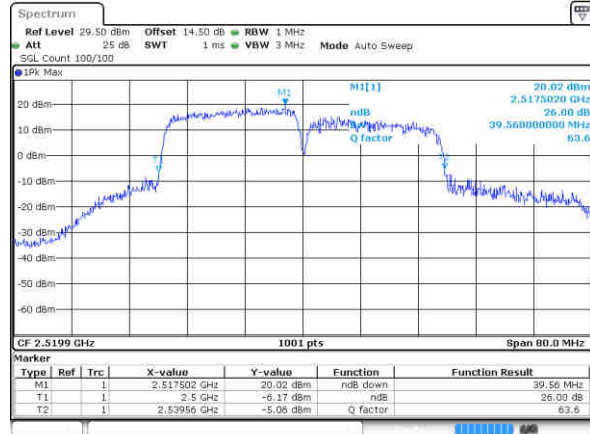
64QAM

Lowest Channel / 20MHz+15MHz



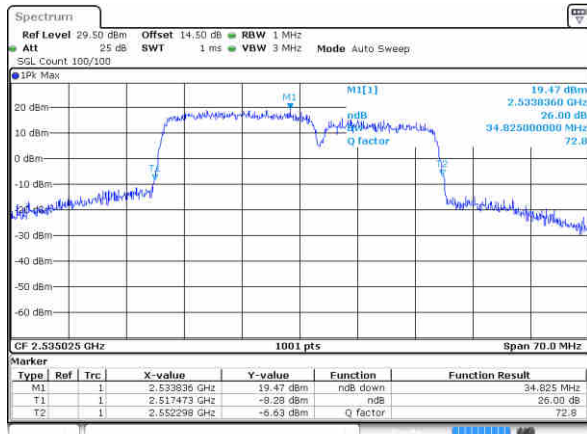
Date: 2 JUL 2020 22:57:35

Lowest Channel / 20MHz+20MHz



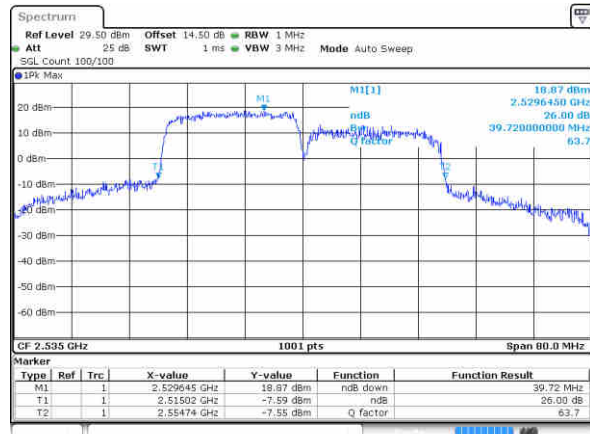
Date: 3 JUL 2020 00:16:51

Middle Channel / 20MHz+15MHz



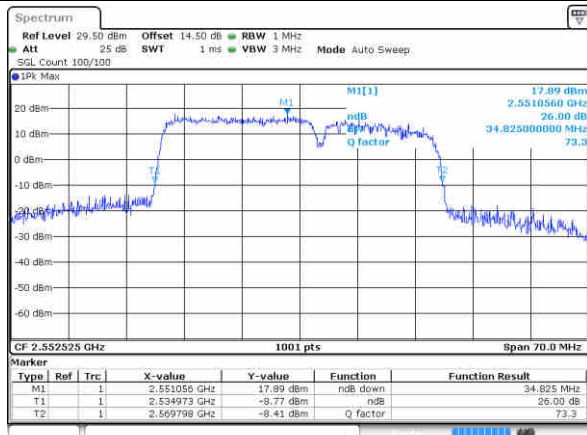
Date: 2 JUL 2020 23:26:11

Middle Channel / 20MHz+20MHz



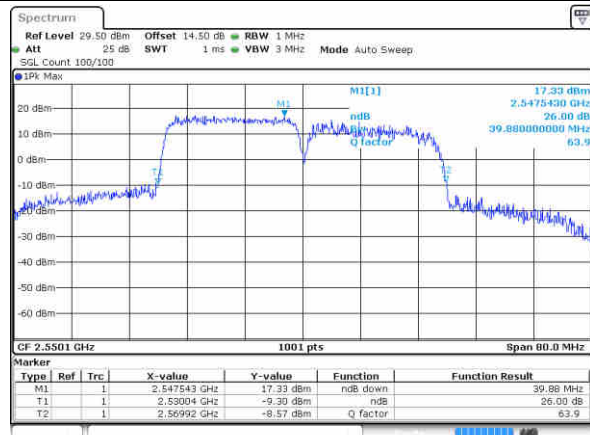
Date: 3 JUL 2020 00:30:53

Highest Channel / 20MHz+15MHz



Date: 3 JUL 2020 00:03:22

Highest Channel / 20MHz+20MHz



Date: 3 JUL 2020 01:14:19

**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	N/A	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.99	-	23.53	28.41
Middle CH	27.81	-	23.53	28.47
Highest CH	27.63	-	23.28	28.35
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.66	27.99	32.59	37.24
Middle CH	32.59	27.93	32.66	37.16
Highest CH	32.52	27.87	32.52	37.32

Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	N/A	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.87	-	23.48	28.65
Middle CH	27.87	-	23.48	28.41
Highest CH	27.81	-	23.28	28.35
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.52	27.87	32.73	37.16
Middle CH	32.59	27.81	32.73	37.24
Highest CH	32.38	27.99	32.52	37.24

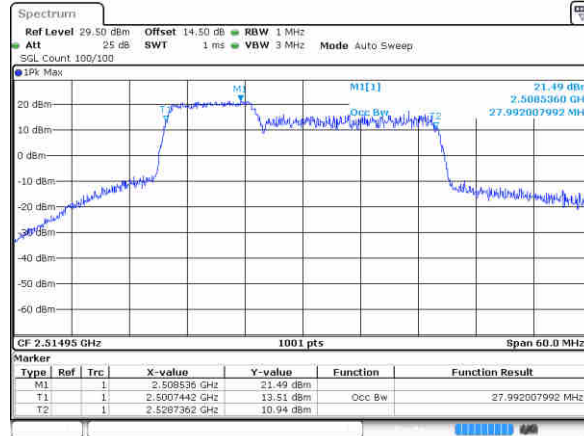
Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	N/A	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.81	-	23.38	28.53
Middle CH	27.75	-	23.38	28.41
Highest CH	27.69	-	23.33	28.29
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.52	27.93	32.59	37.08
Middle CH	32.52	27.93	32.45	37.16
Highest CH	32.38	27.87	32.52	37.08



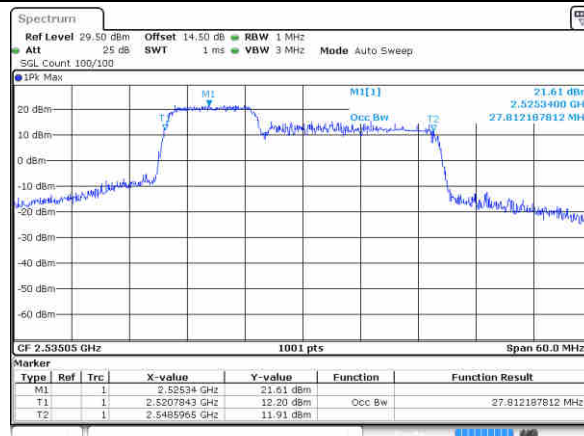
LTE Band 7

QPSK

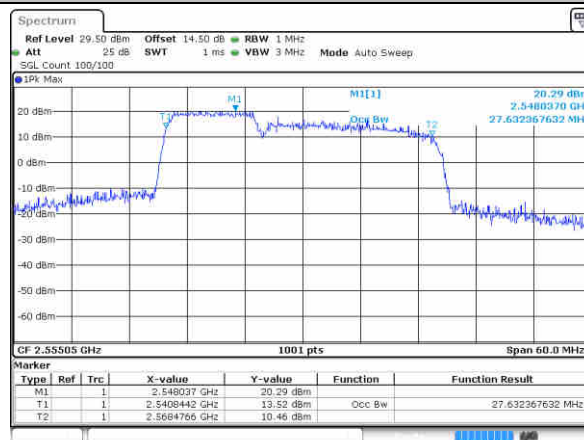
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

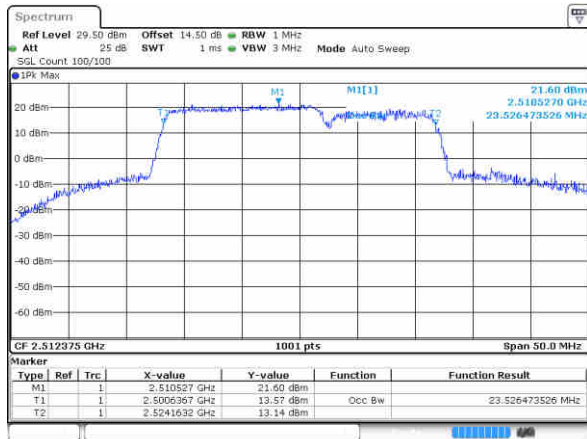




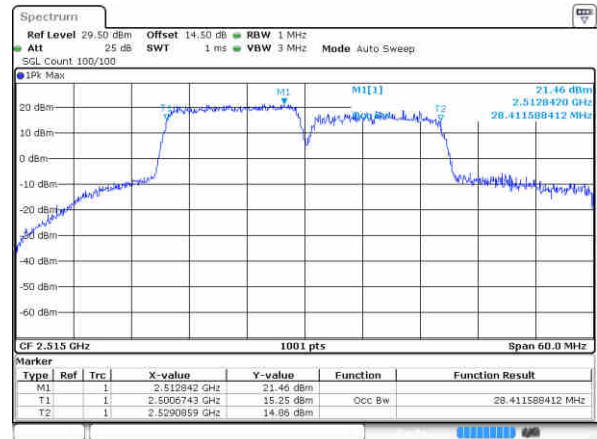
LTE Band 7

QPSK

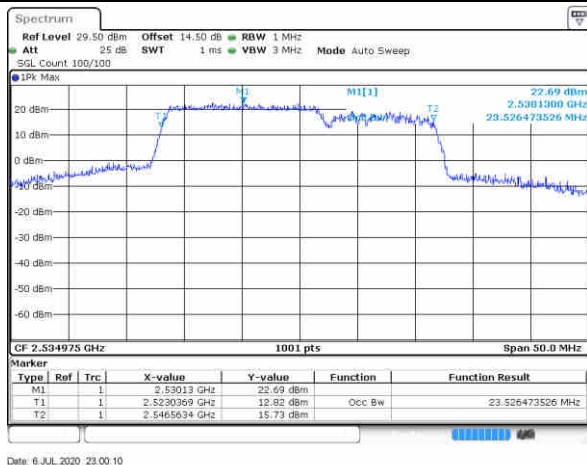
Lowest Channel / 15MHz+10MHz



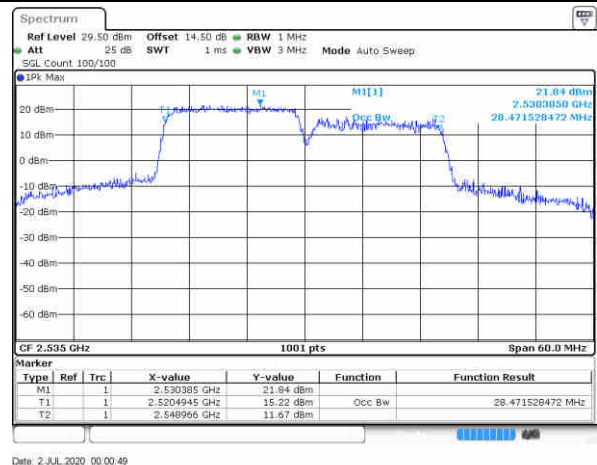
Lowest Channel / 15MHz+15MHz



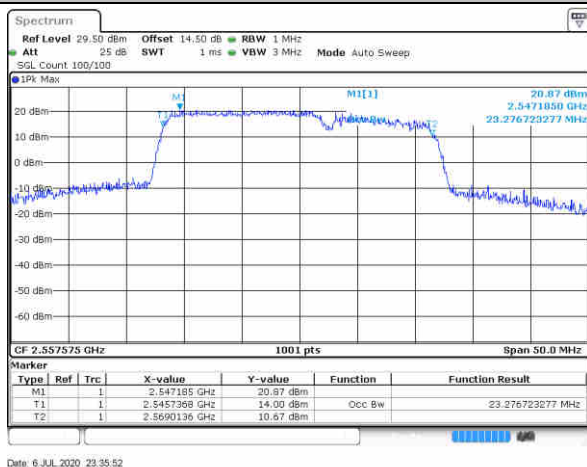
Middle Channel / 15MHz+10MHz



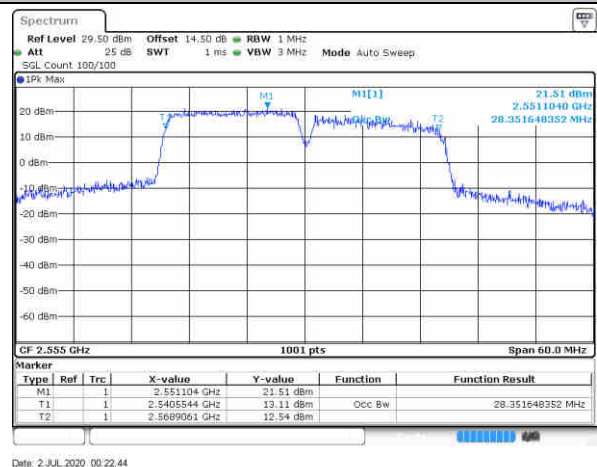
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

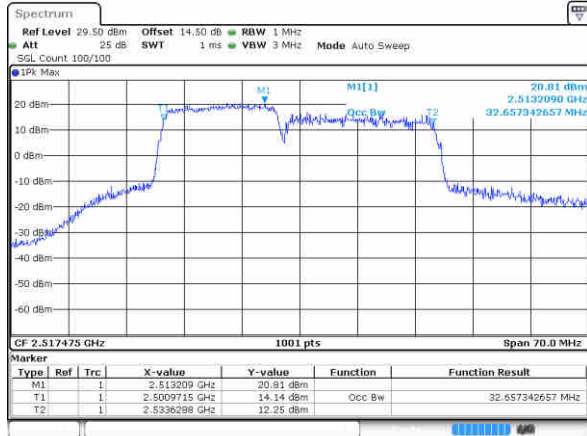




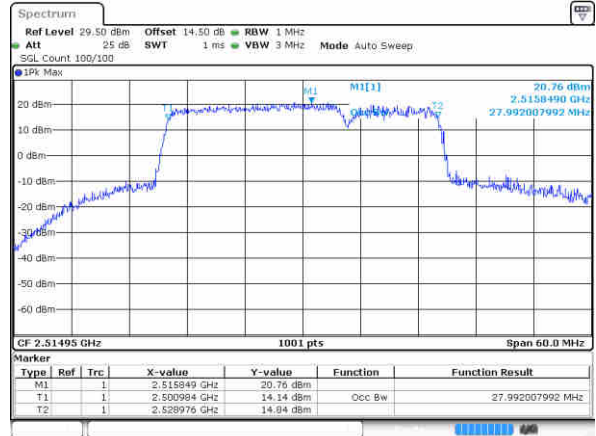
LTE Band 7

QPSK

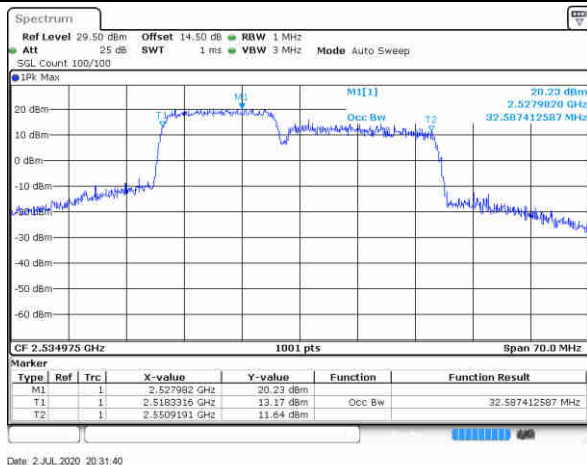
Lowest Channel / 15MHz+20MHz



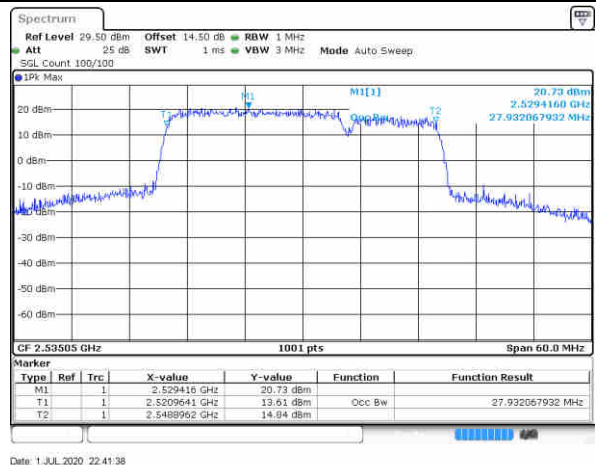
Lowest Channel / 20MHz+10MHz



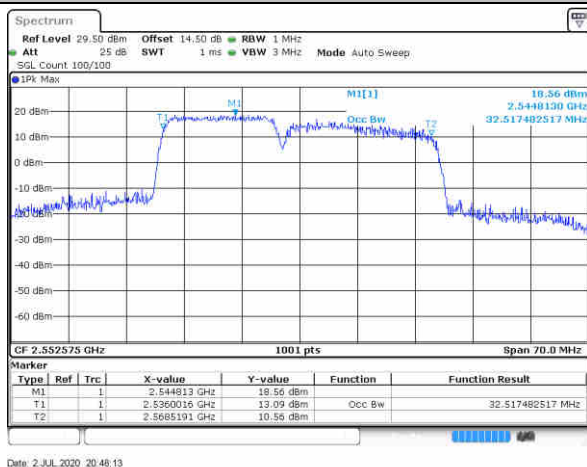
Middle Channel / 15MHz+20MHz



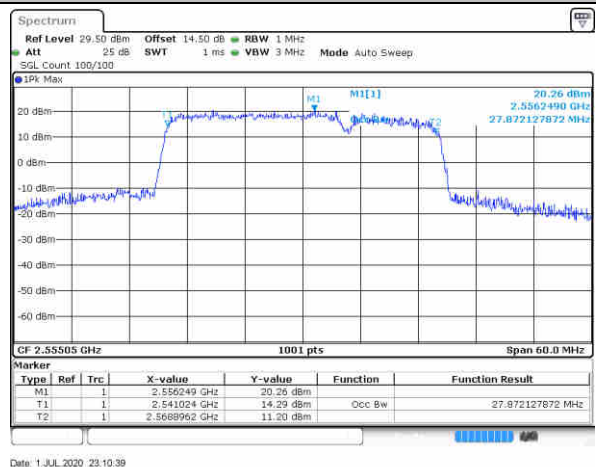
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

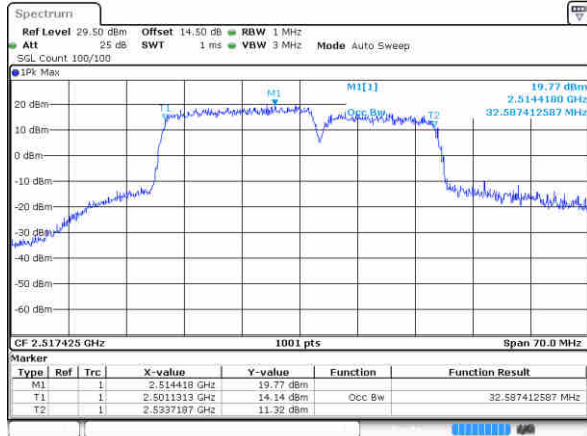




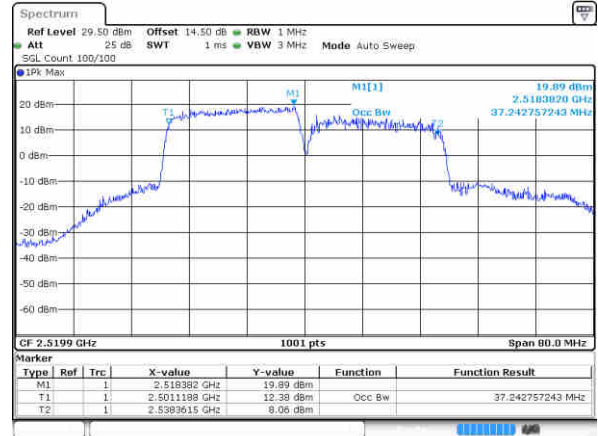
LTE Band 7

QPSK

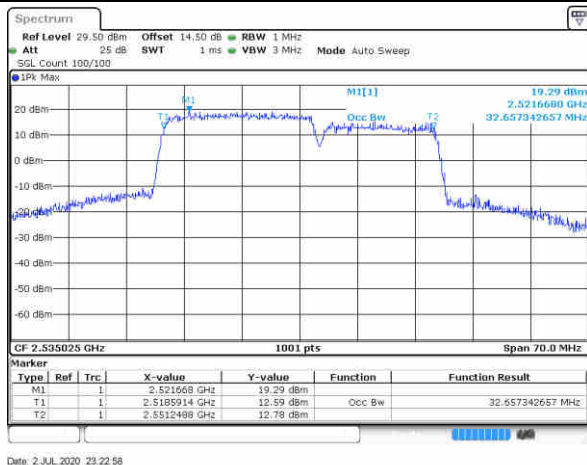
Lowest Channel / 20MHz+15MHz



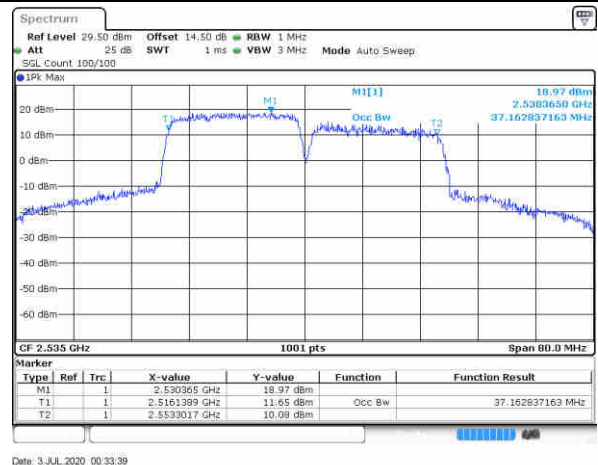
Lowest Channel / 20MHz+20MHz



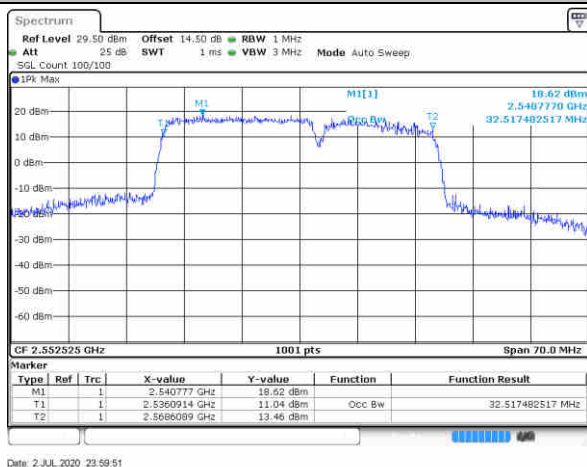
Middle Channel / 20MHz+15MHz



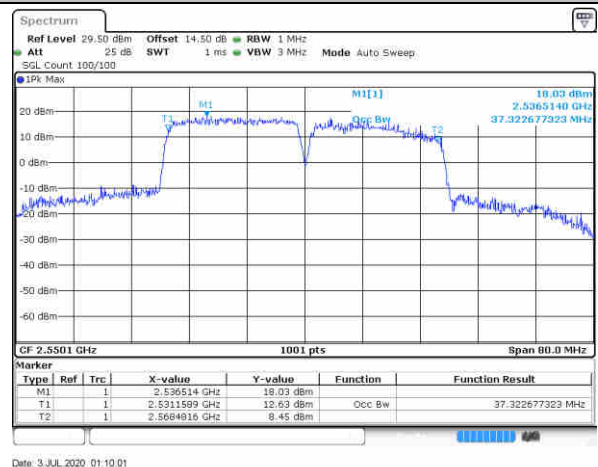
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz

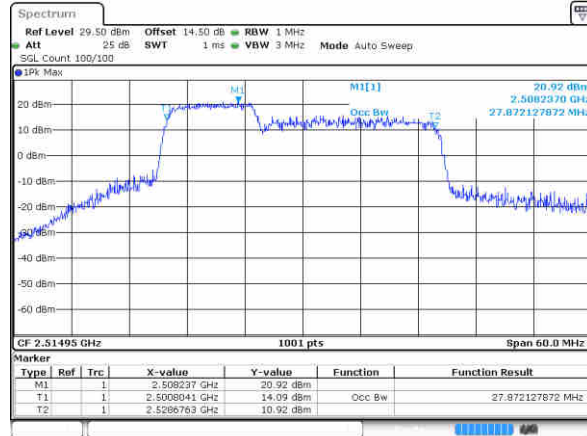




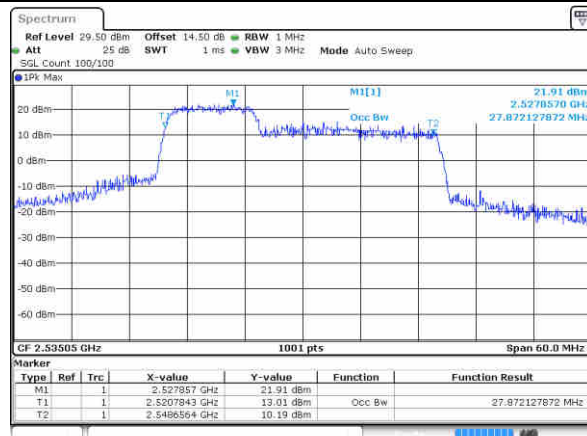
LTE Band 7

16QAM

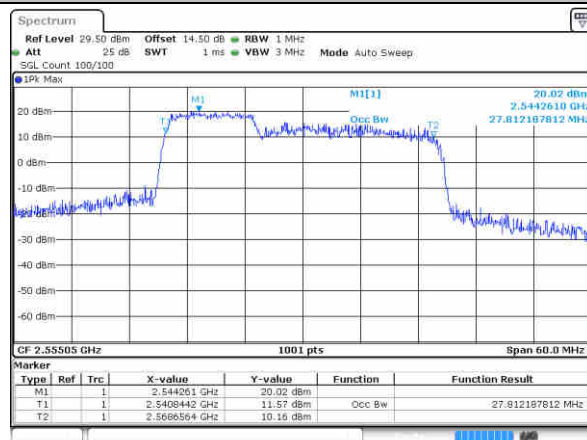
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

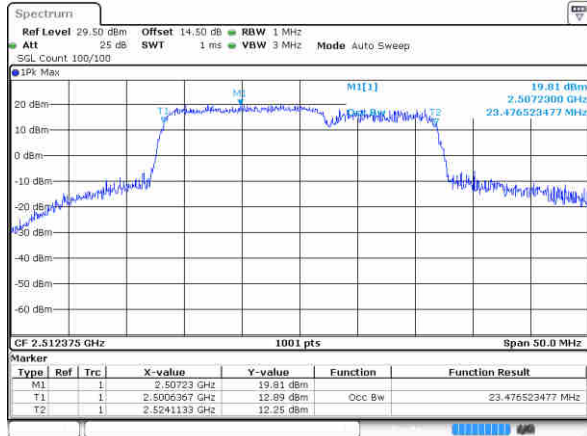




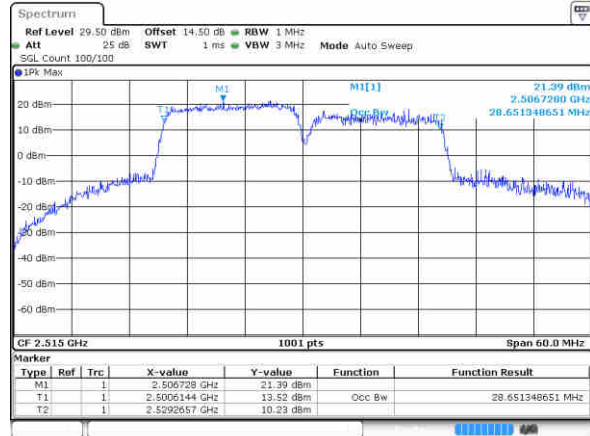
LTE Band 7

16QAM

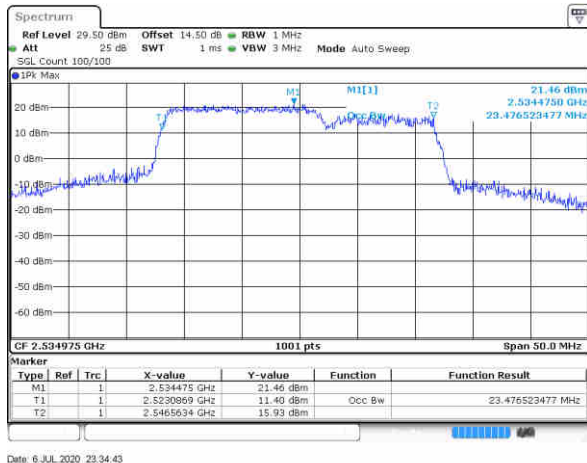
Lowest Channel / 15MHz+10MHz



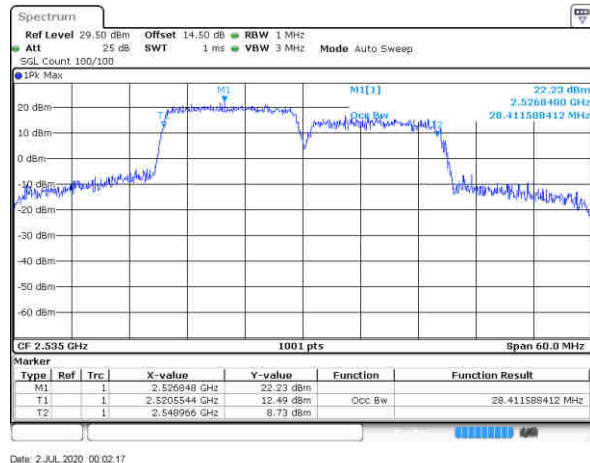
Lowest Channel / 15MHz+15MHz



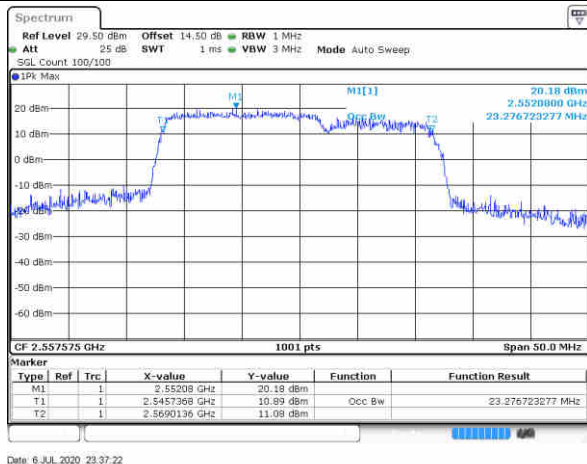
Middle Channel / 15MHz+10MHz



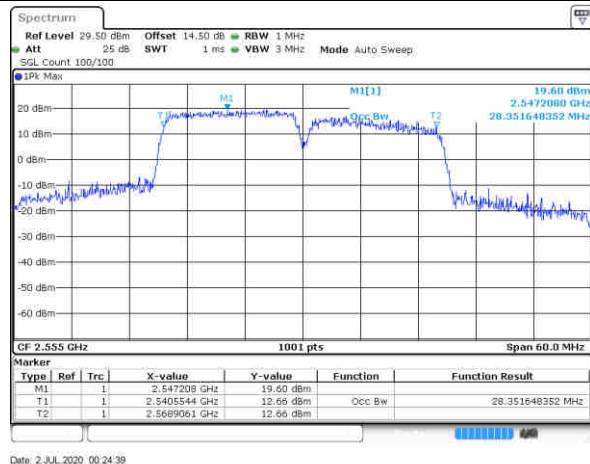
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

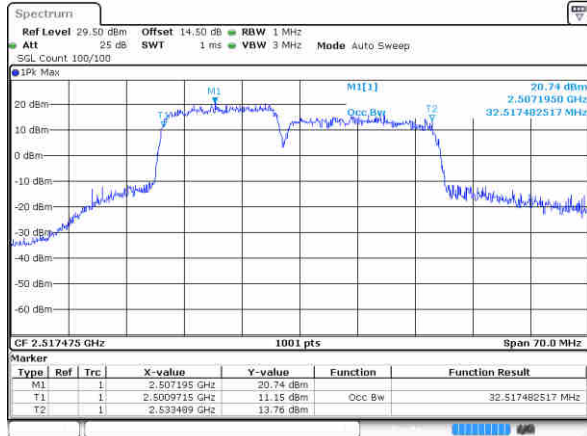




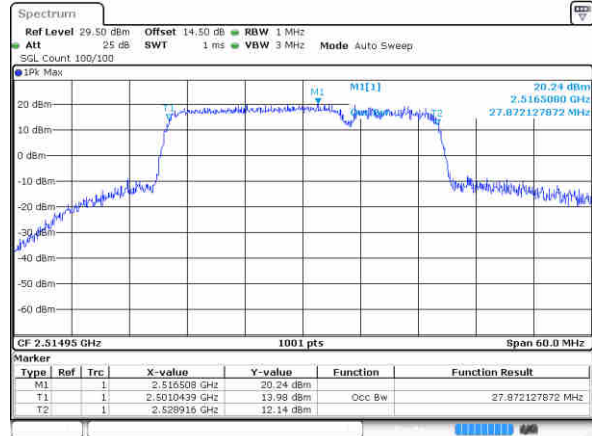
LTE Band 7

16QAM

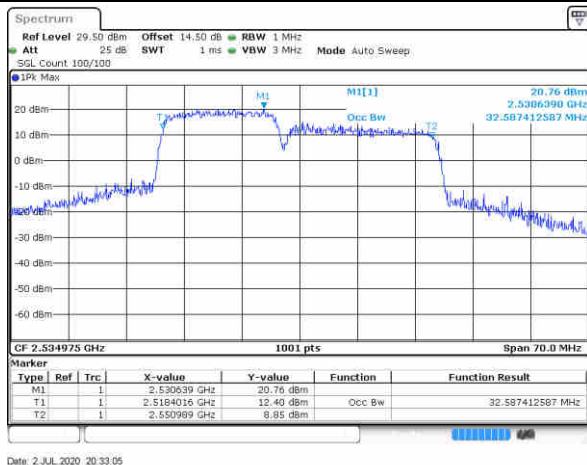
Lowest Channel / 15MHz+20MHz



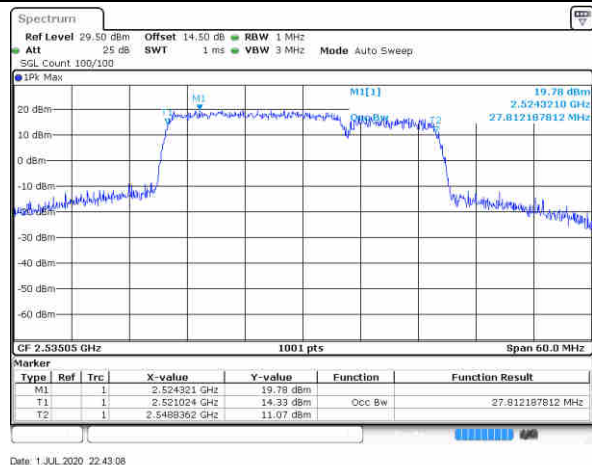
Lowest Channel / 20MHz+10MHz



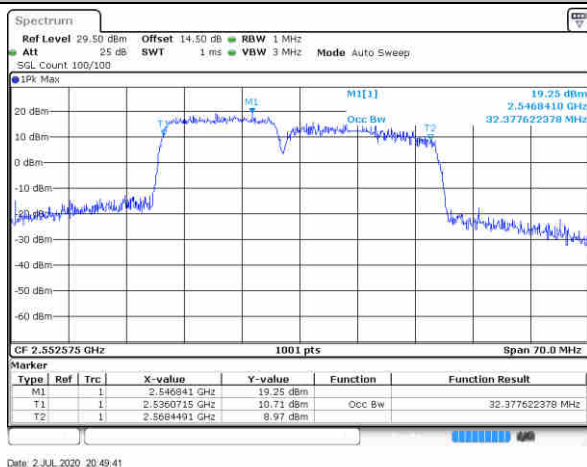
Middle Channel / 15MHz+20MHz



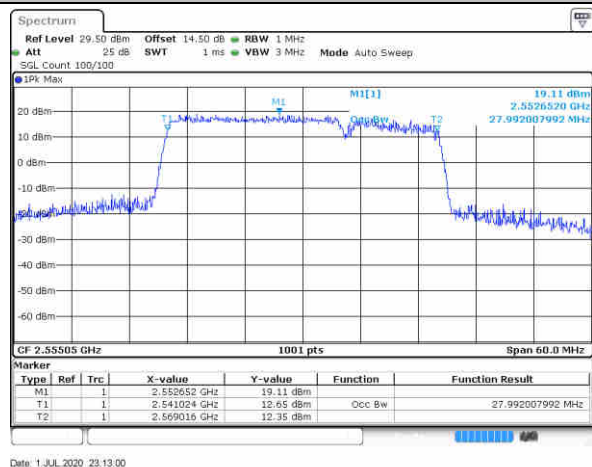
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

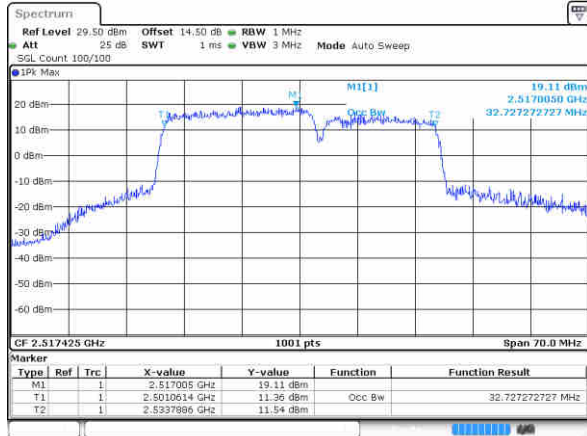




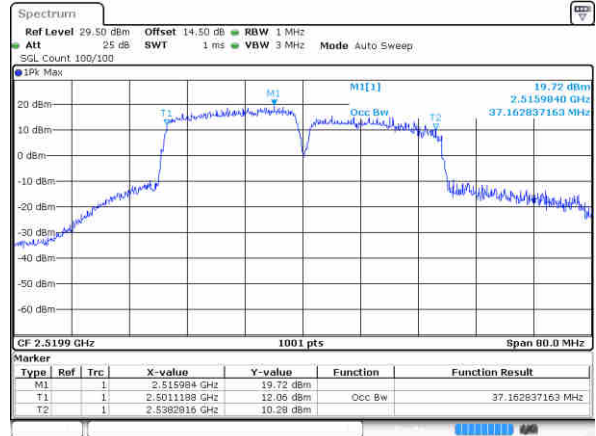
LTE Band 7

16QAM

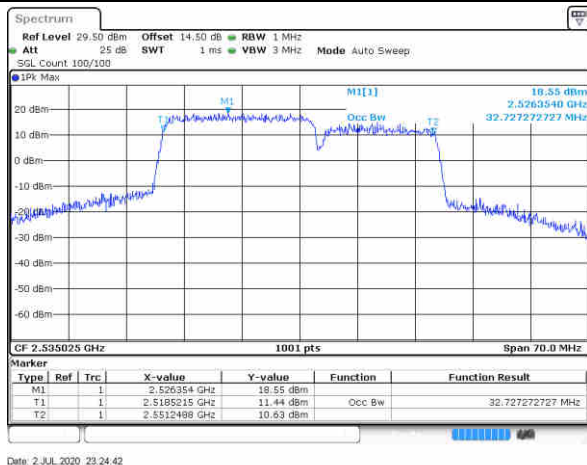
Lowest Channel / 20MHz+15MHz



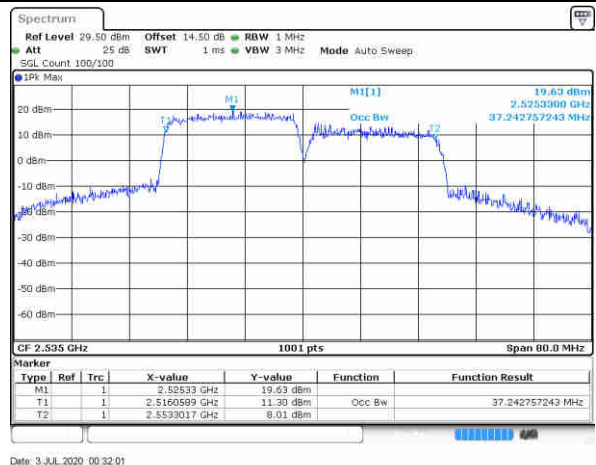
Lowest Channel / 20MHz+20MHz



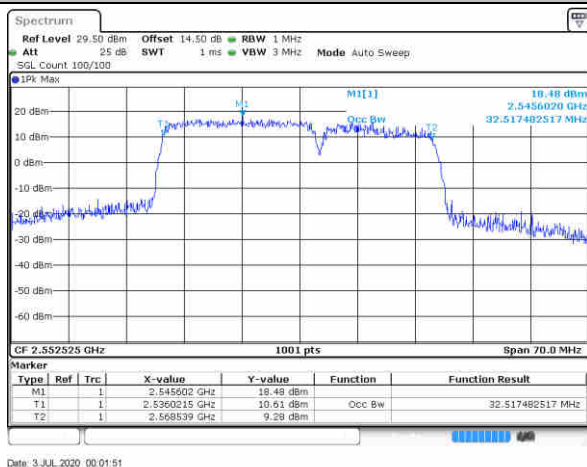
Middle Channel / 20MHz+15MHz



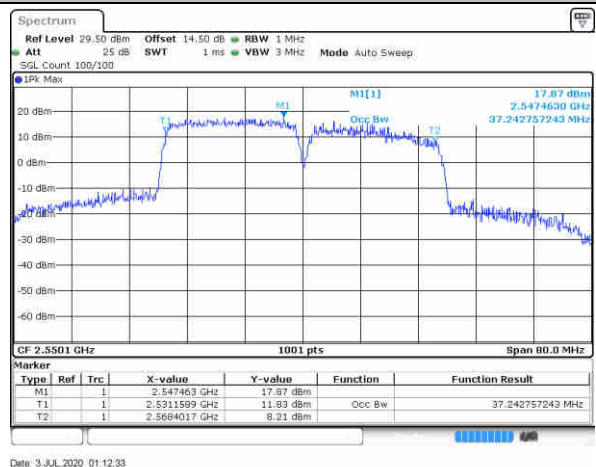
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz

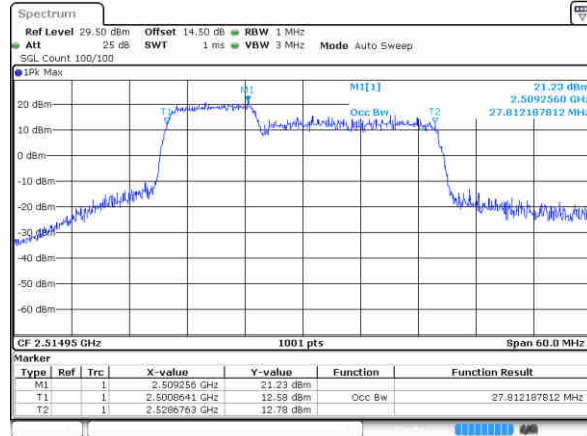




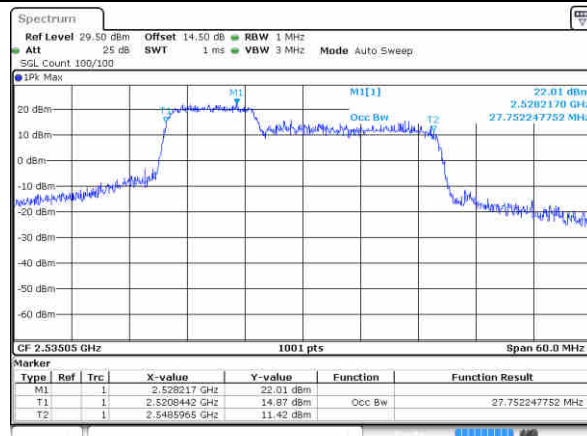
LTE Band 7

64QAM

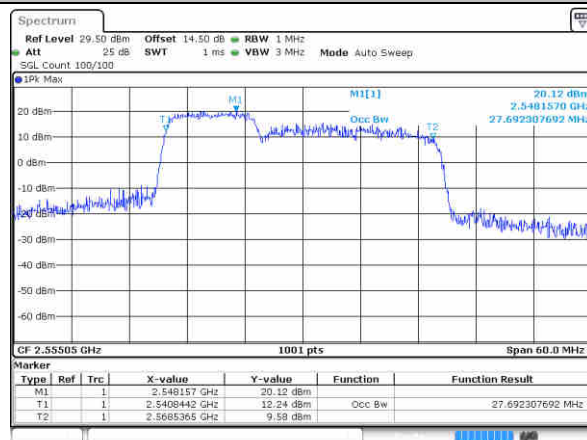
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

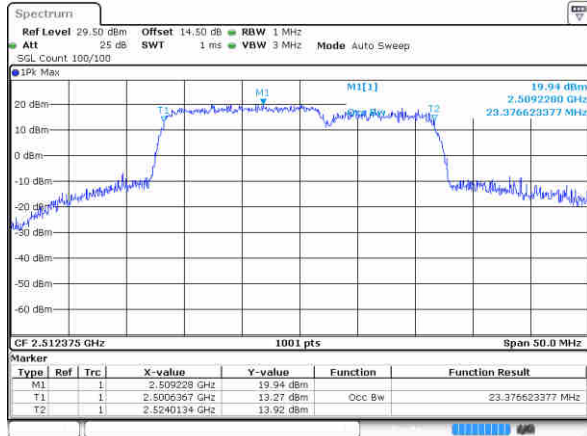




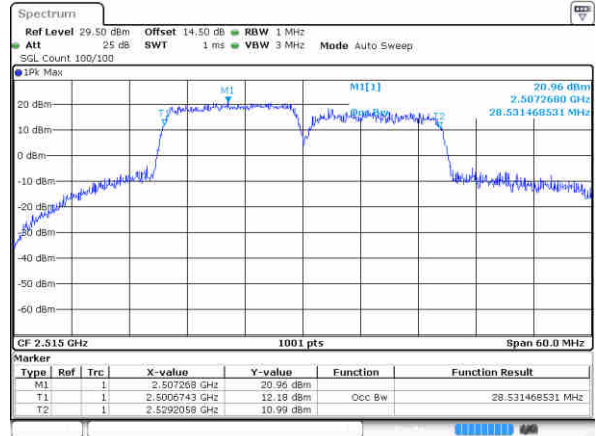
LTE Band 7

64QAM

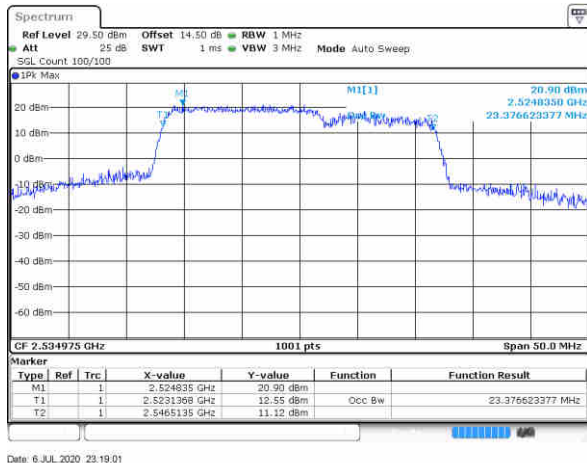
Lowest Channel / 15MHz+10MHz



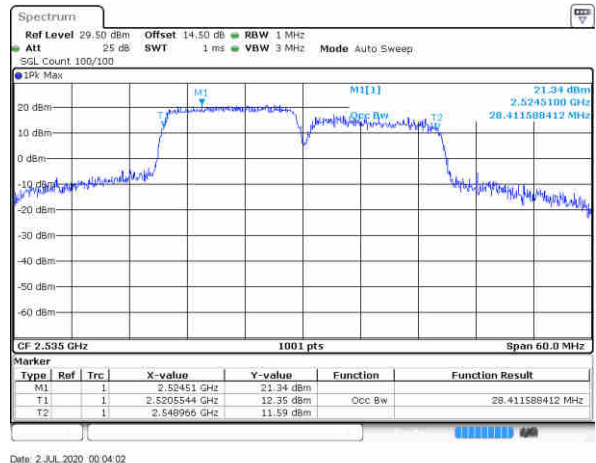
Lowest Channel / 15MHz+15MHz



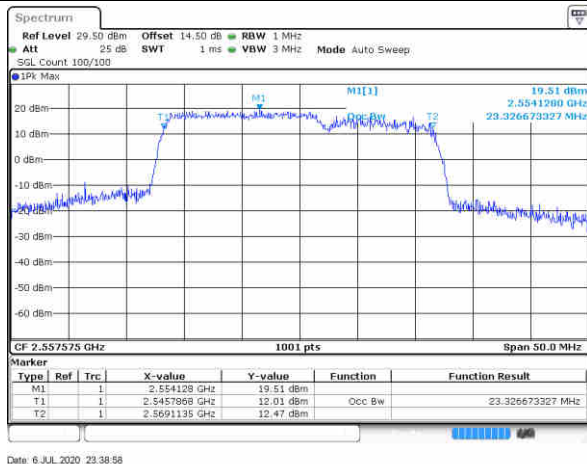
Middle Channel / 15MHz+10MHz



Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

