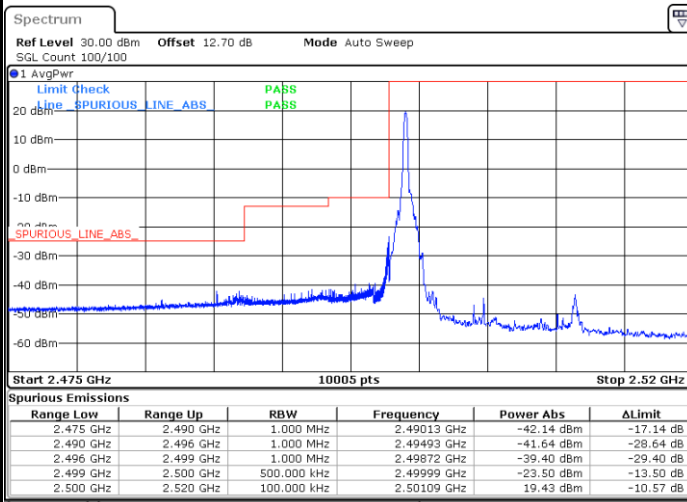




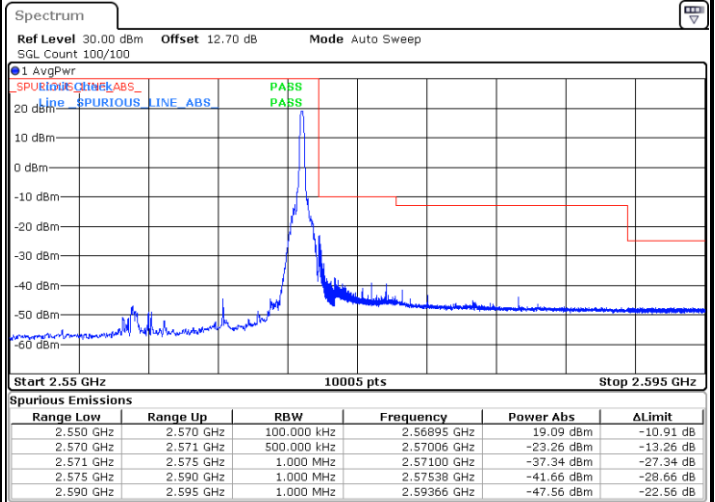
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



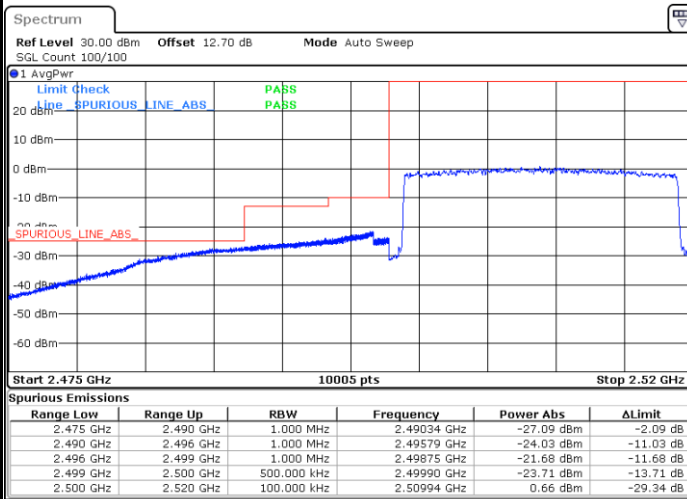
Date: 15.MAY.2020 10:54:14

Highest Band Edge / 1RB



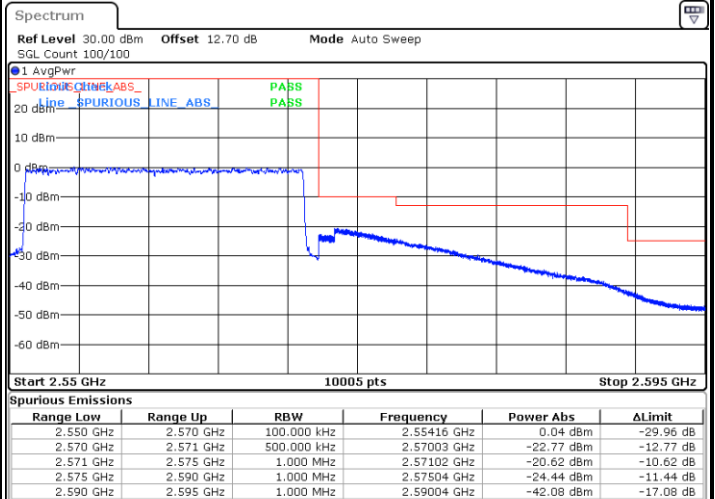
Date: 15.MAY.2020 11:01:57

Lowest Band Edge / Full RB



Date: 15.MAY.2020 10:55:37

Highest Band Edge / Full RB

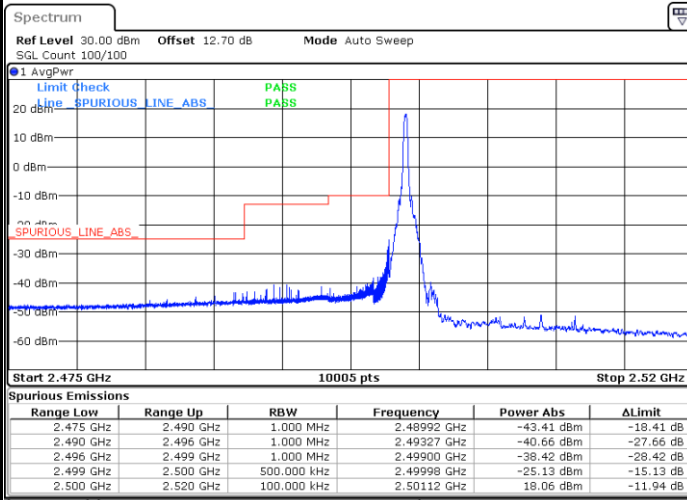


Date: 15.MAY.2020 11:02:38



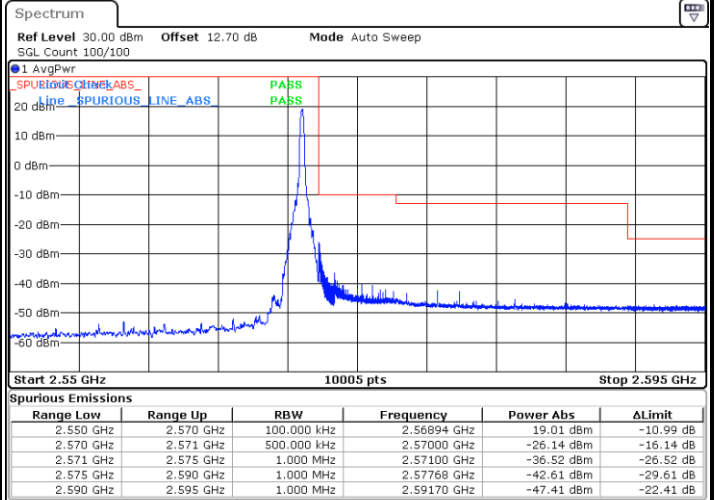
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



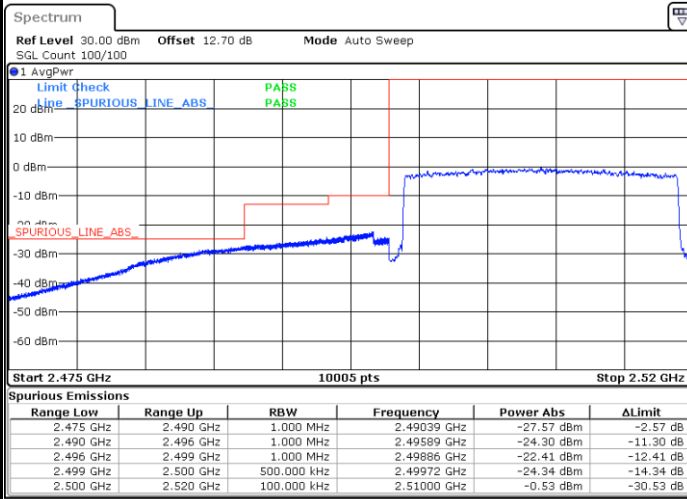
Date: 15.MAY.2020 11:06:07

Highest Band Edge / 1 RB



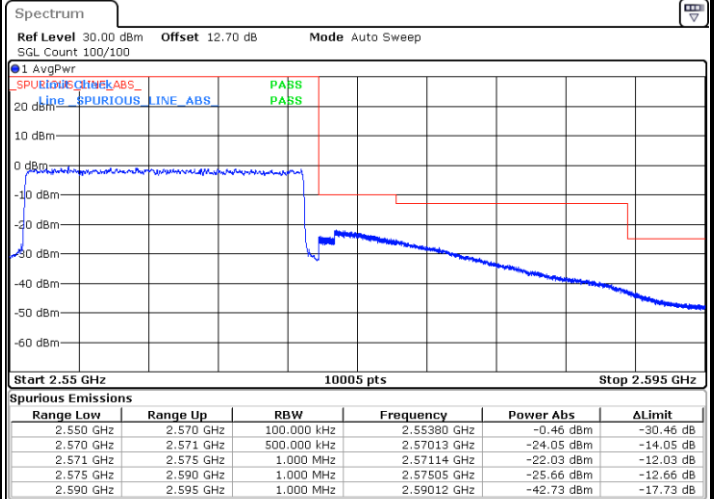
Date: 15.MAY.2020 11:09:58

Lowest Band Edge / Full RB



Date: 15.MAY.2020 11:06:49

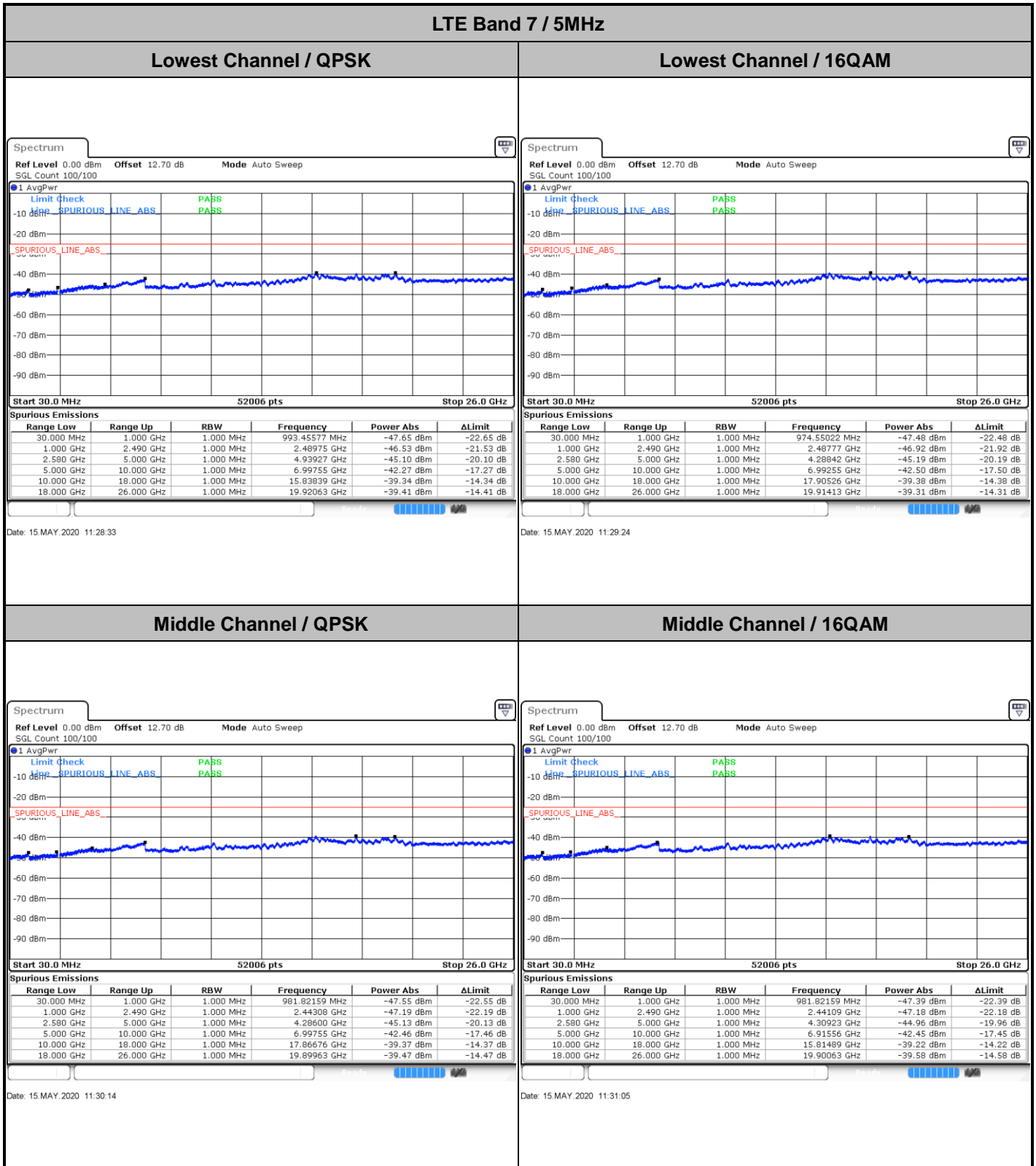
Highest Band Edge / Full RB



Date: 15.MAY.2020 11:10:40



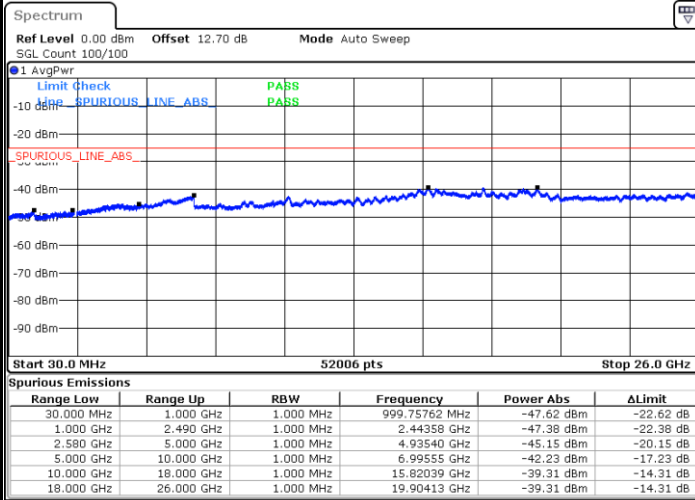
Conducted Spurious Emission





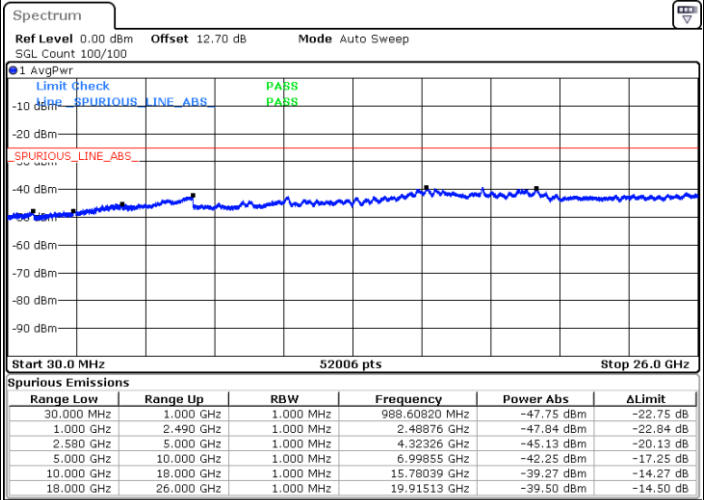
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 15.MAY.2020 11:31:57

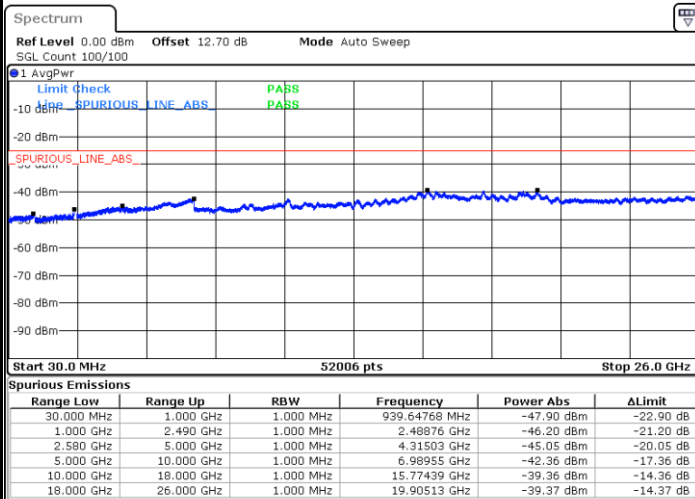
Highest Channel / 16QAM



Date: 15.MAY.2020 11:32:47

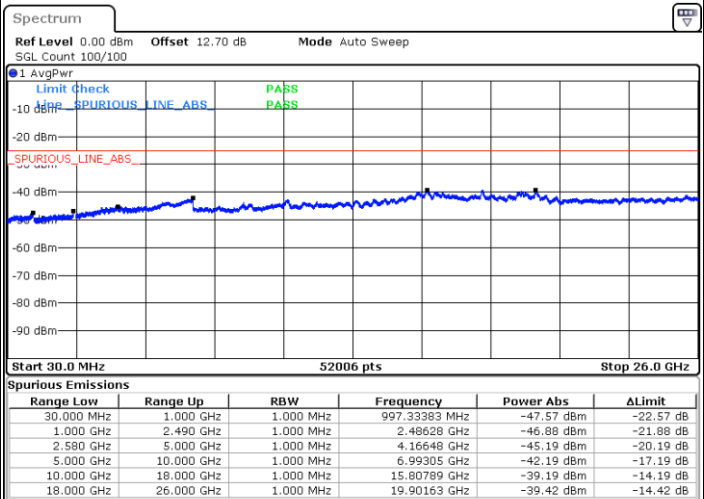
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 15.MAY.2020 11:36:10

Lowest Channel / 16QAM



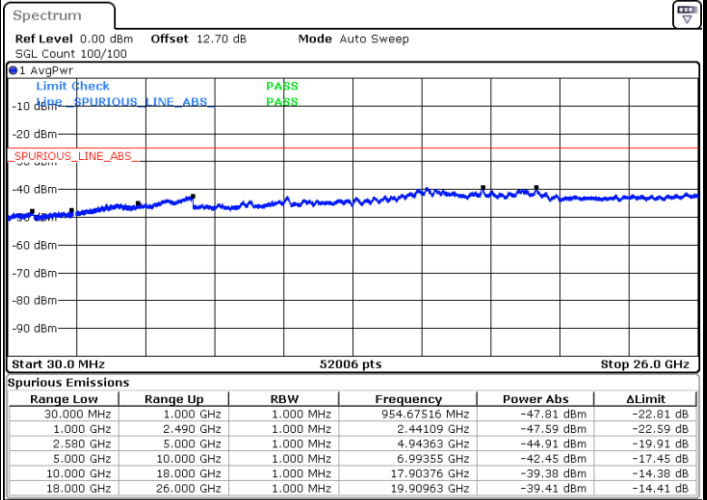
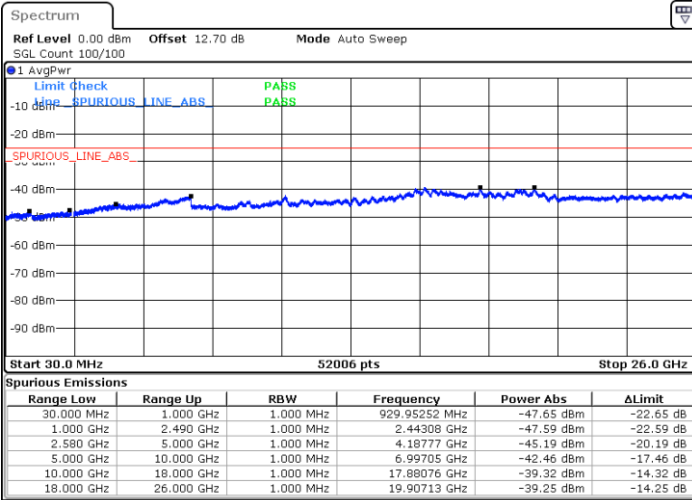
Date: 15.MAY.2020 11:37:00



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

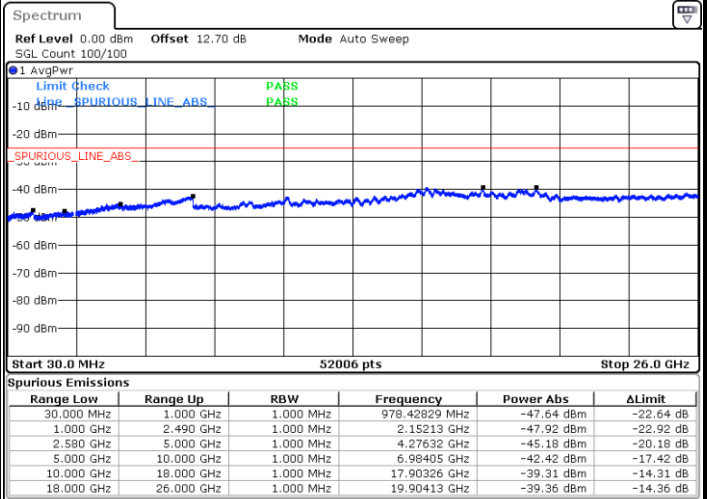
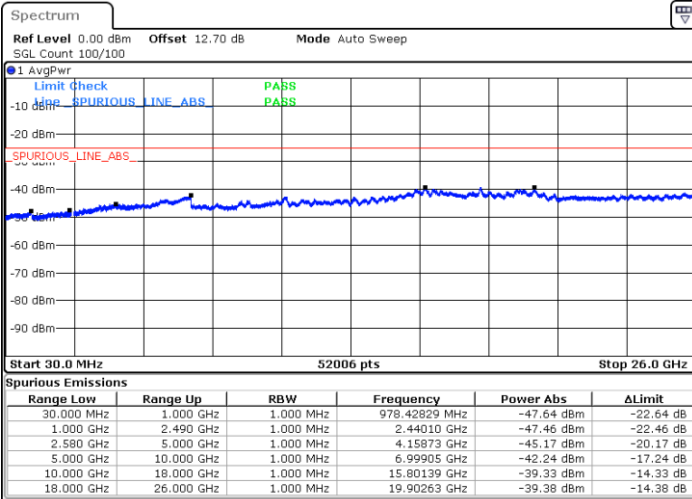


Date: 15.MAY.2020 11:37:51

Date: 15.MAY.2020 11:38:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.MAY.2020 11:39:31

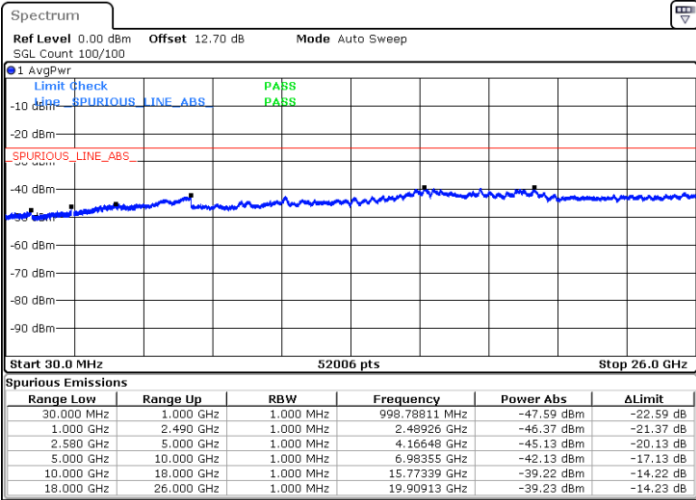
Date: 15.MAY.2020 11:40:21



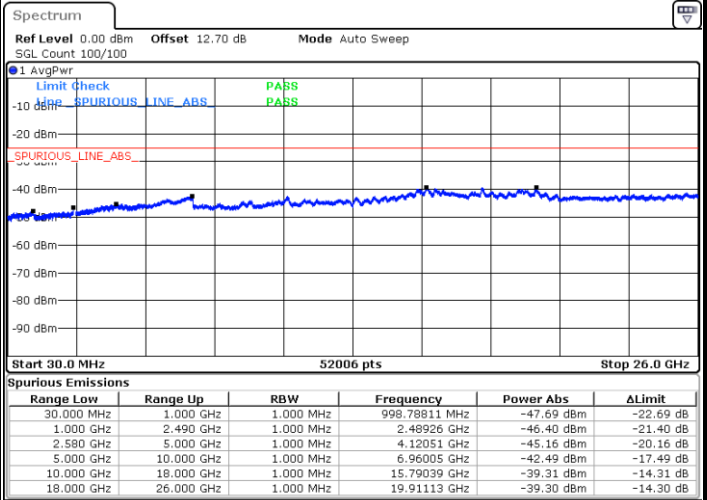
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



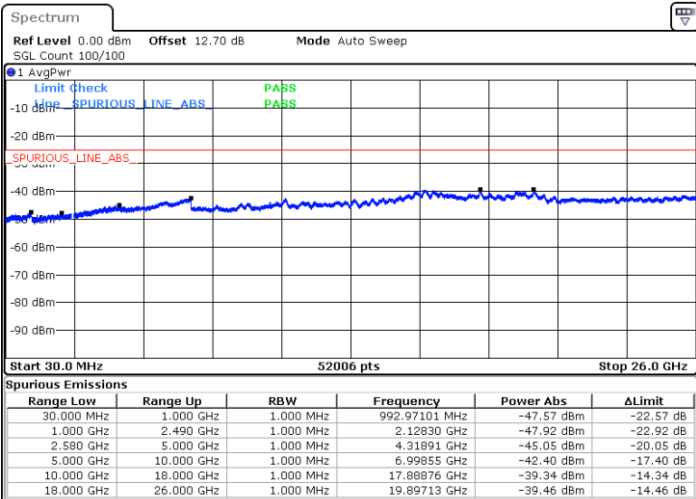
Date: 15.MAY.2020 11:46:17



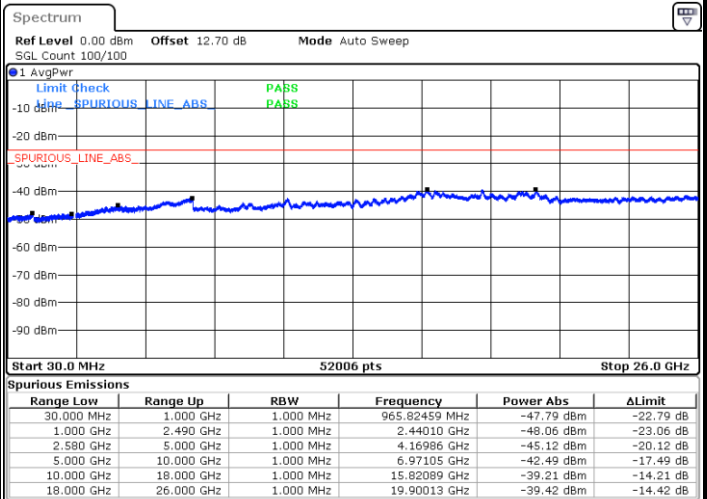
Date: 15.MAY.2020 11:47:07

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 15.MAY.2020 11:47:57



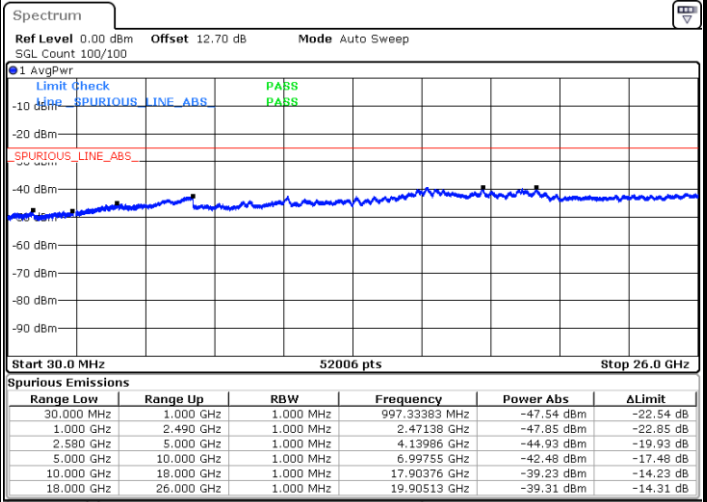
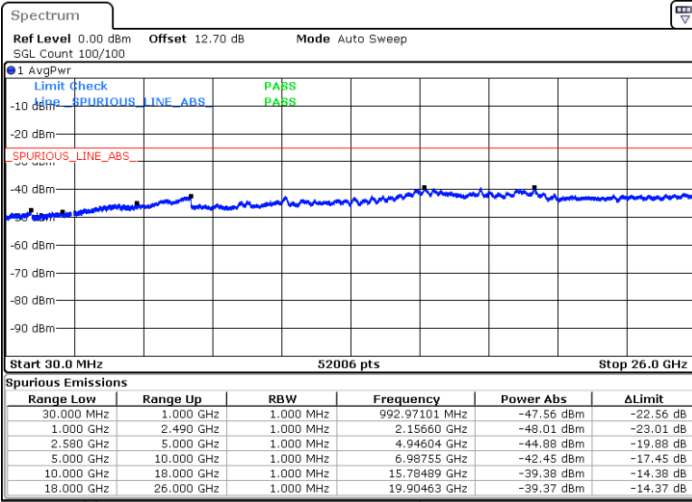
Date: 15.MAY.2020 11:48:47



LTE Band7 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



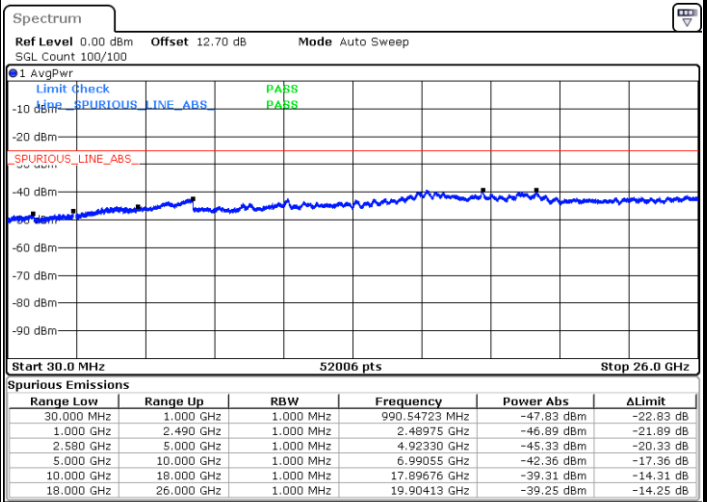
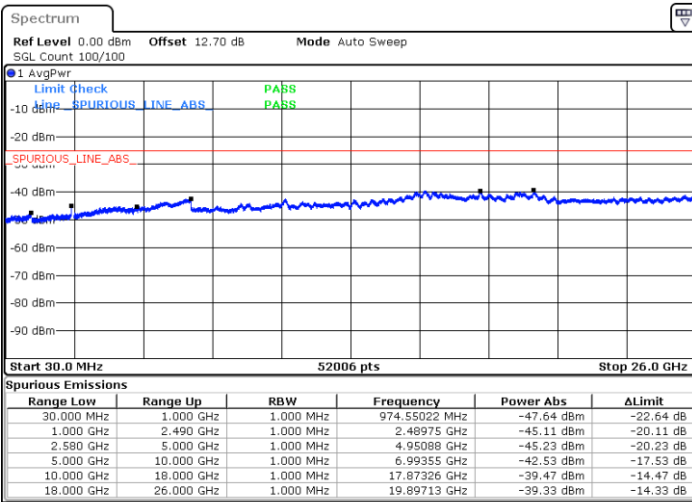
Date: 15.MAY.2020 11:49:37

Date: 15.MAY.2020 11:50:27

LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 15.MAY.2020 11:51:18

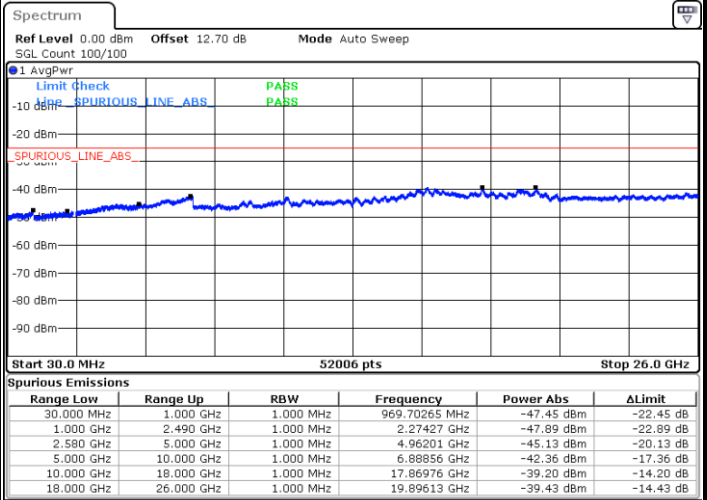
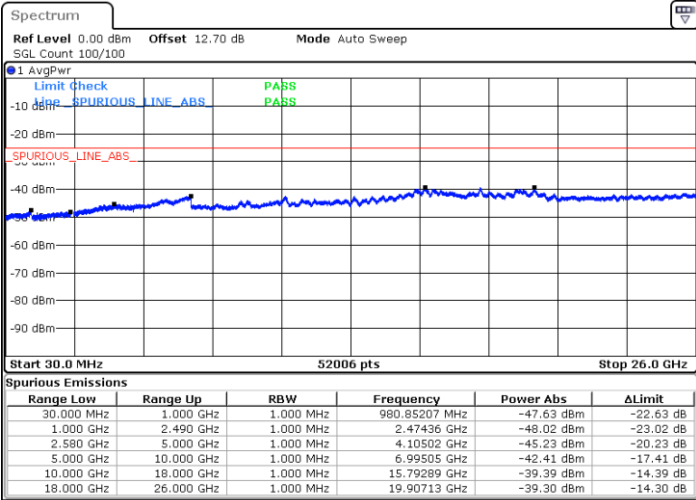
Date: 15.MAY.2020 11:52:09



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

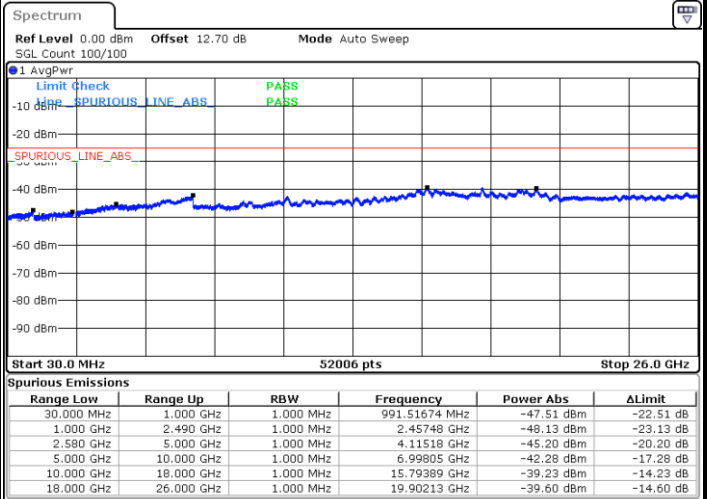
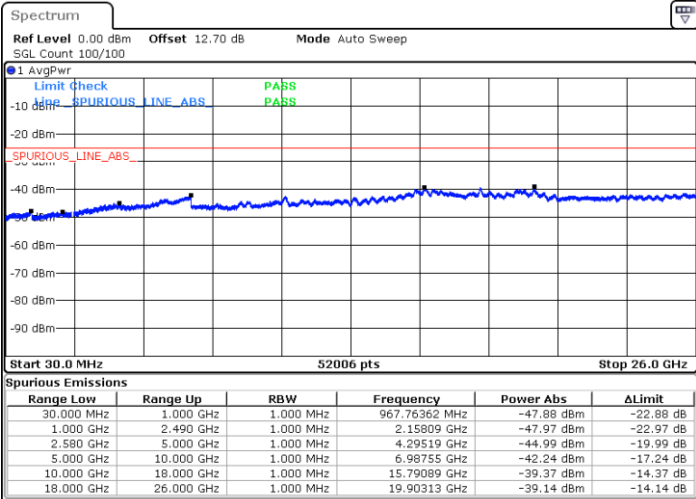


Date: 15.MAY.2020 11:52:59

Date: 15.MAY.2020 11:53:49

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.MAY.2020 11:54:39

Date: 15.MAY.2020 11:55:29

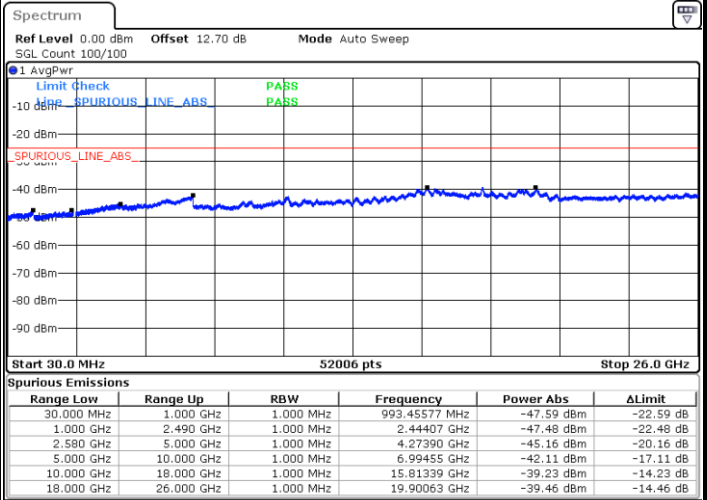
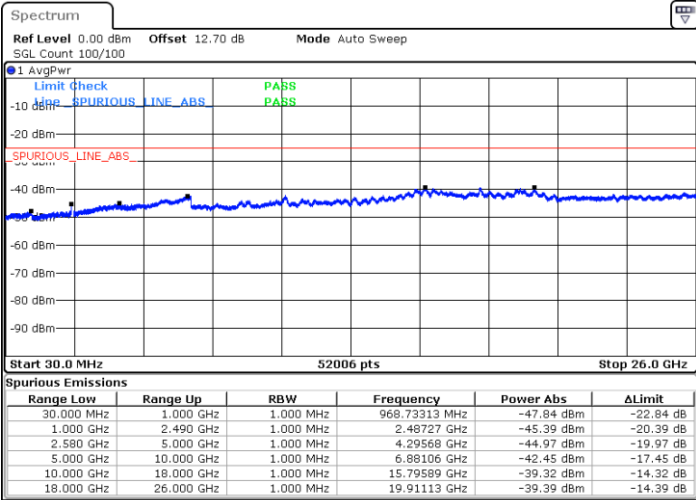




LTE Band 7 / 5MHz

Lowest Channel / 64QAM

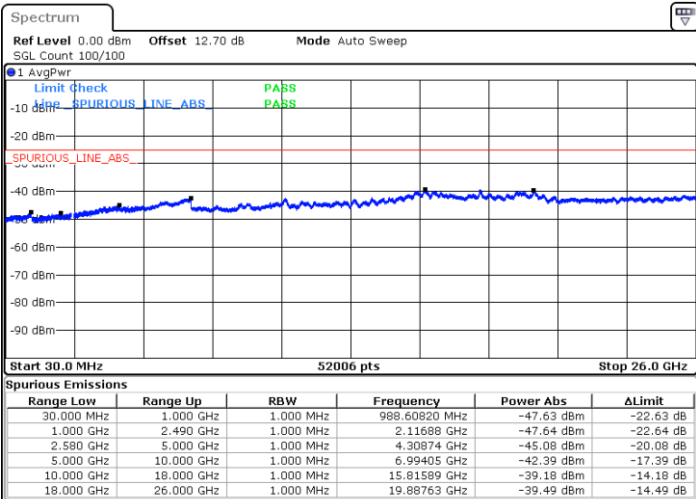
Middle Channel / 64QAM



Date: 15.MAY.2020 11:33:37

Date: 15.MAY.2020 11:34:28

Highest Channel / 64QAM



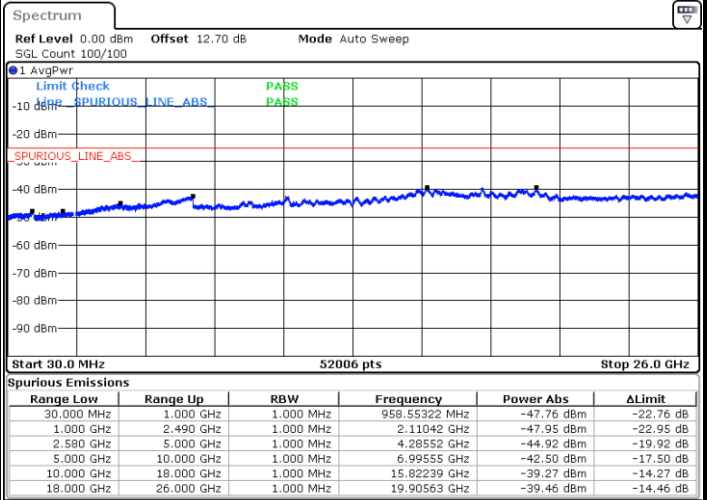
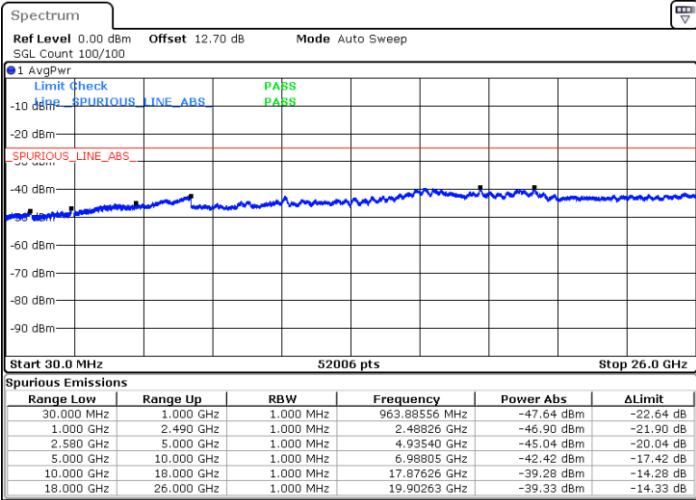
Date: 15.MAY.2020 11:35:18



LTE Band 7 / 10MHz

Lowest Channel / 64QAM

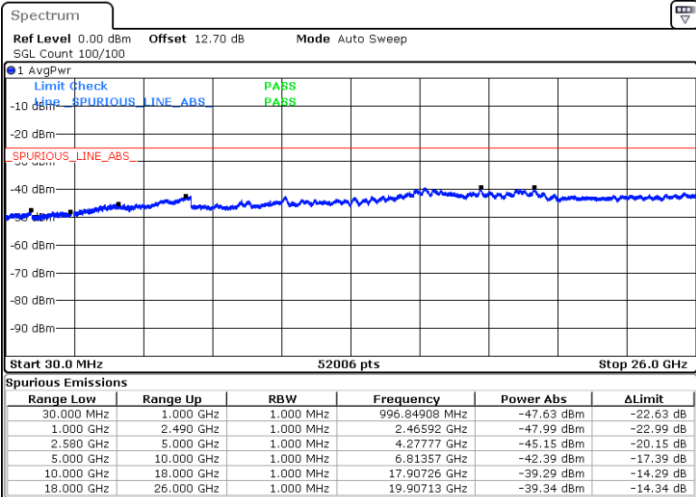
Middle Channel / 64QAM



Date: 15.MAY.2020 11:41:16

Date: 15.MAY.2020 11:42:06

Highest Channel / 64QAM



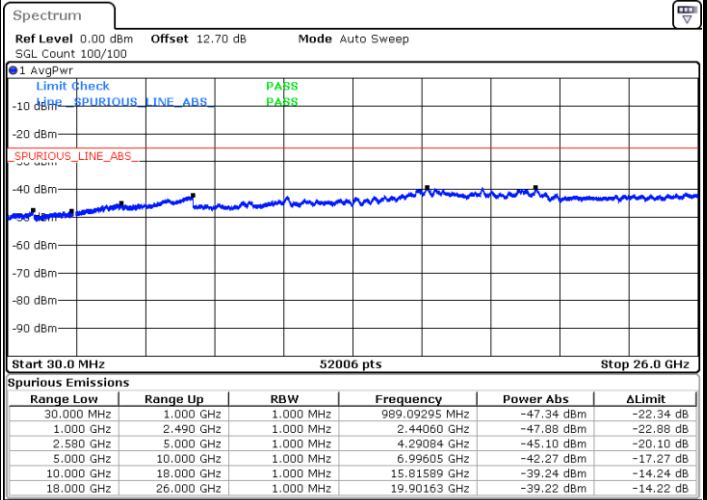
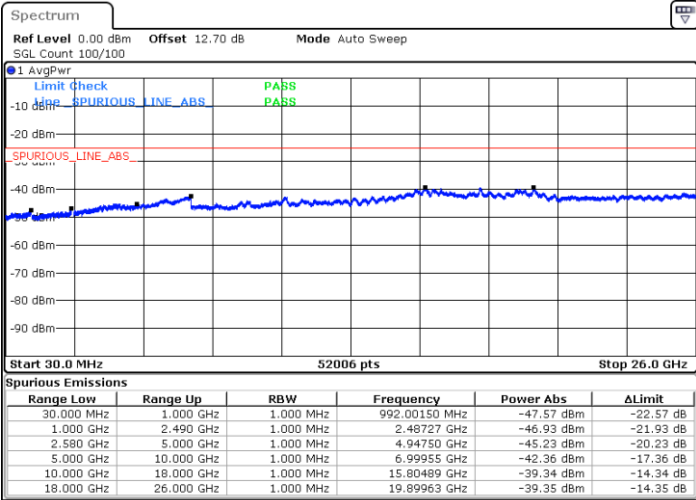
Date: 15.MAY.2020 11:42:56



LTE Band 7 / 15MHz

Lowest Channel / 64QAM

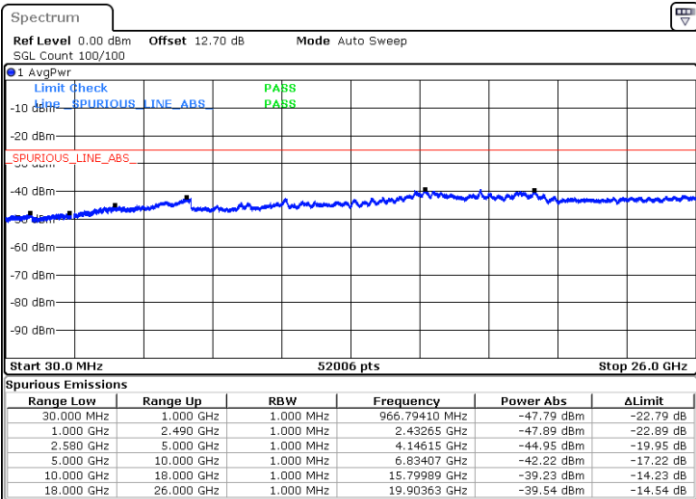
Middle Channel / 64QAM



Date: 15.MAY.2020 11:43:47

Date: 15.MAY.2020 11:44:37

Highest Channel / 64QAM



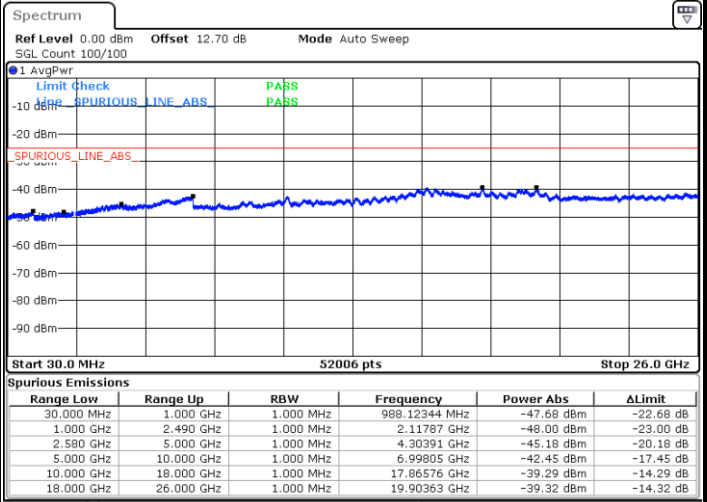
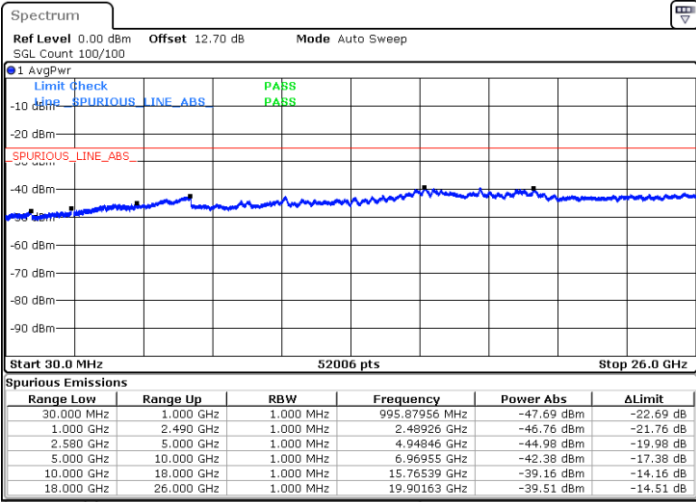
Date: 15.MAY.2020 11:45:27



LTE Band 7 / 20MHz

Lowest Channel / 64QAM

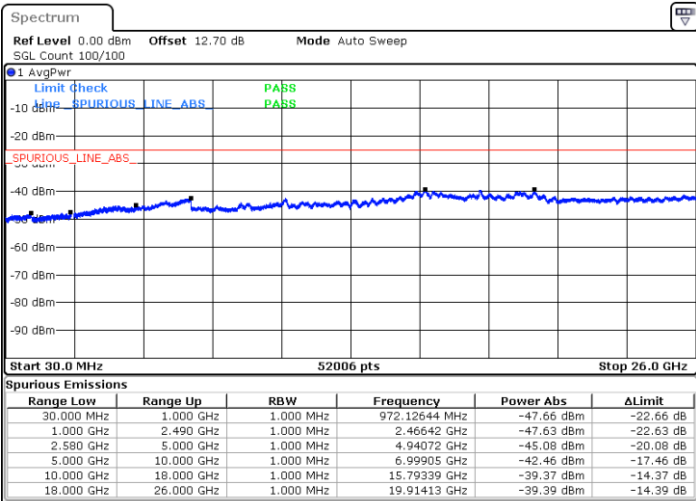
Middle Channel / 64QAM



Date: 15.MAY.2020 11:56:20

Date: 15.MAY.2020 11:57:10

Highest Channel / 64QAM



Date: 15.MAY.2020 11:58:00



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.49 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 7C

## 26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.79	25.33	30.63	34.83
Middle CH	29.91	25.33	30.45	34.76
Highest CH	29.91	25.43	30.75	34.69
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.03	34.90	39.80	-
Middle CH	29.91	34.90	39.72	-
Highest CH	30.03	34.83	39.96	-

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.91	25.23	30.51	34.97
Middle CH	29.73	25.33	30.69	34.62
Highest CH	29.79	25.33	30.51	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.03	34.83	39.72	-
Middle CH	29.97	34.83	39.80	-
Highest CH	30.03	35.04	39.96	-

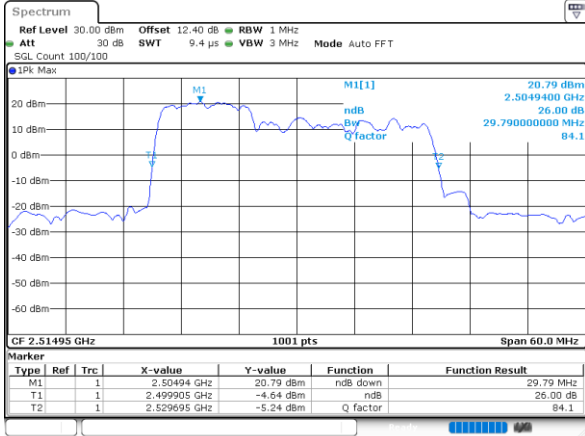
Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.73	25.33	30.39	34.90
Middle CH	29.79	25.33	30.57	34.83
Highest CH	29.85	25.28	30.51	34.76
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.85	34.97	39.64	-
Middle CH	30.03	34.83	39.72	-
Highest CH	30.09	35.04	39.72	-



LTE Band 7C

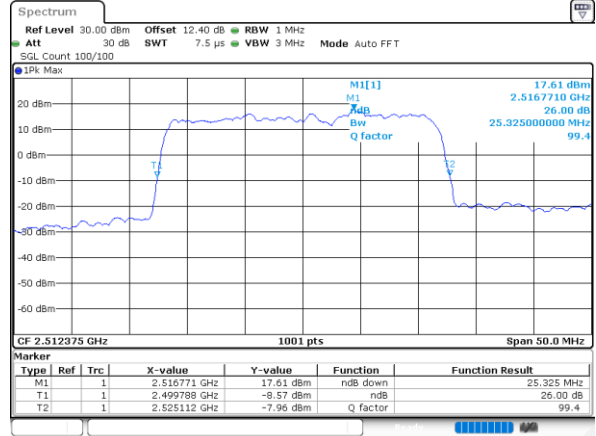
QPSK

Lowest Channel / 10MHz+20MHz



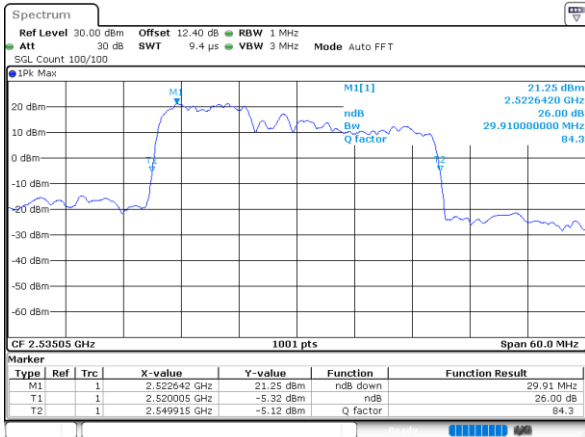
Date: 1..JUL.2020 22:24:44

Lowest Channel / 15MHz+10MHz



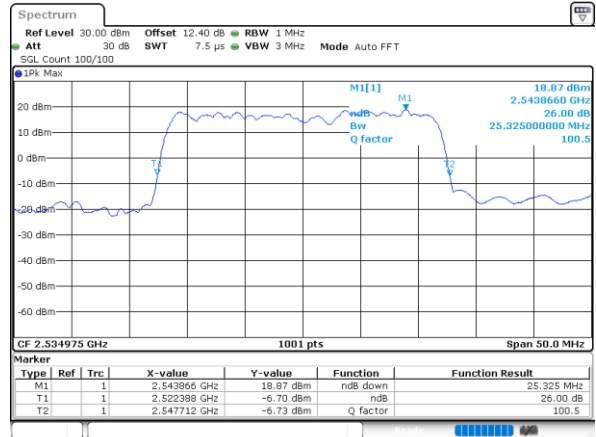
Date: 6..JUL.2020 20:46:02

Middle Channel / 10MHz+20MHz



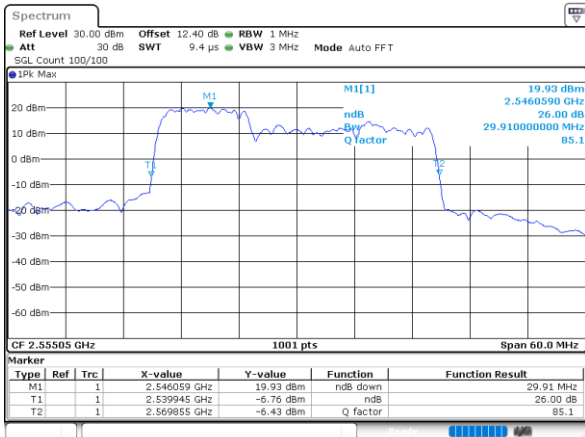
Date: 1..JUL.2020 22:32:23

Middle Channel / 15MHz+10MHz



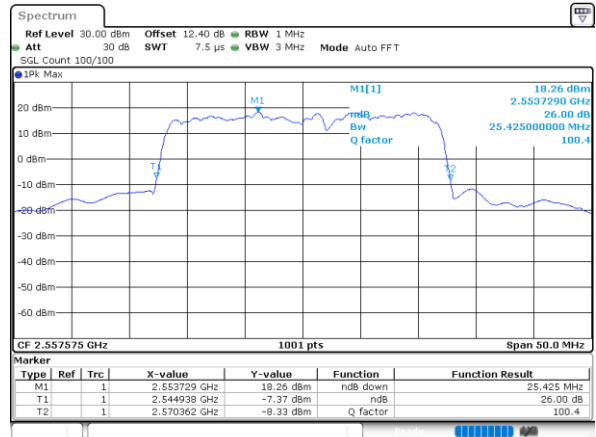
Date: 6..JUL.2020 20:53:00

Highest Channel / 10MHz+20MHz



Date: 1..JUL.2020 22:37:04

Highest Channel / 15MHz+10MHz



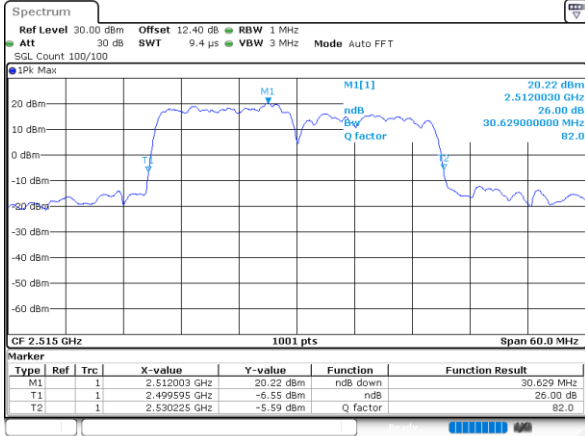
Date: 6..JUL.2020 20:57:12



LTE Band 7C

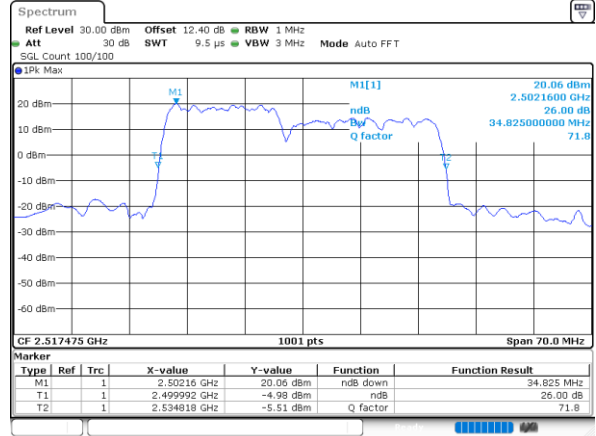
QPSK

Lowest Channel / 15MHz+15MHz



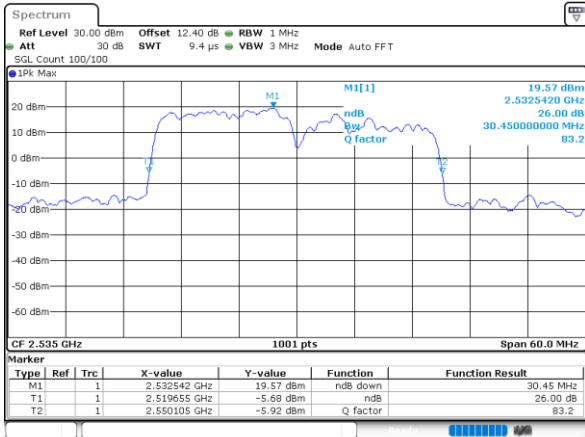
Date: 1..JUL.2020 21:09:30

Lowest Channel / 15MHz+20MHz



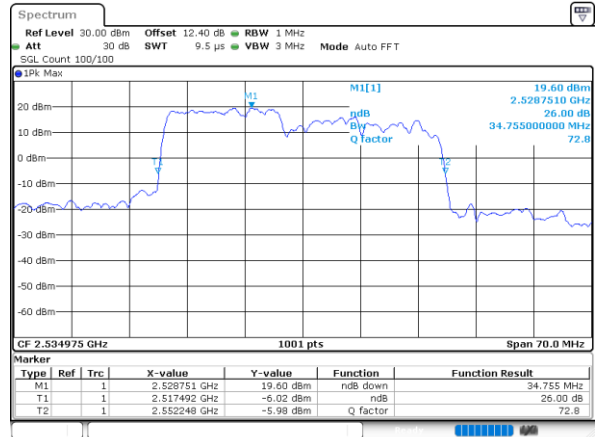
Date: 1..JUL.2020 20:42:54

Middle Channel / 15MHz+15MHz



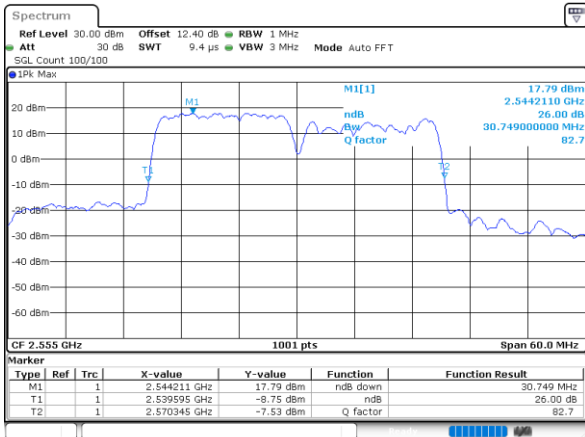
Date: 1..JUL.2020 21:43:16

Middle Channel / 15MHz+20MHz



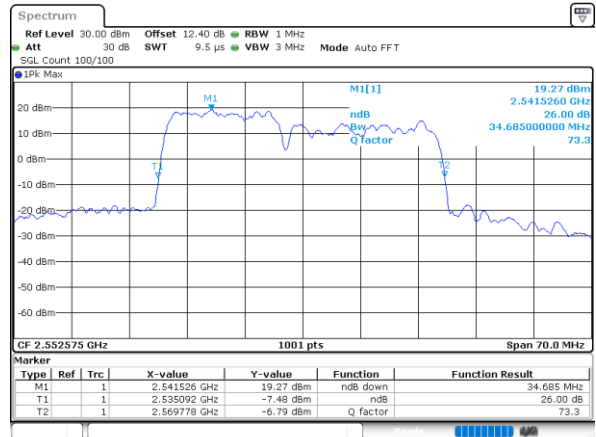
Date: 1..JUL.2020 20:50:40

Highest Channel / 15MHz+15MHz



Date: 1..JUL.2020 21:47:28

Highest Channel / 15MHz+20MHz



Date: 1..JUL.2020 21:01:29

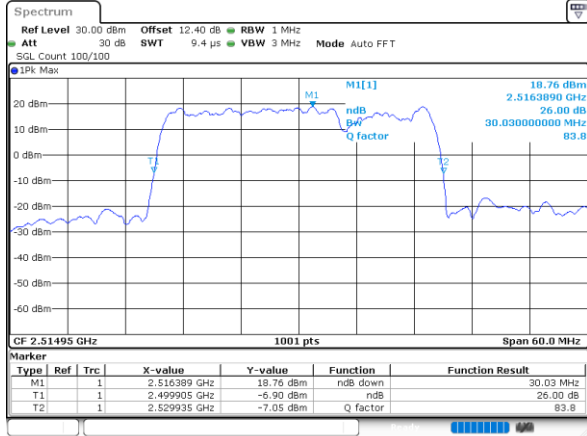




LTE Band 7C

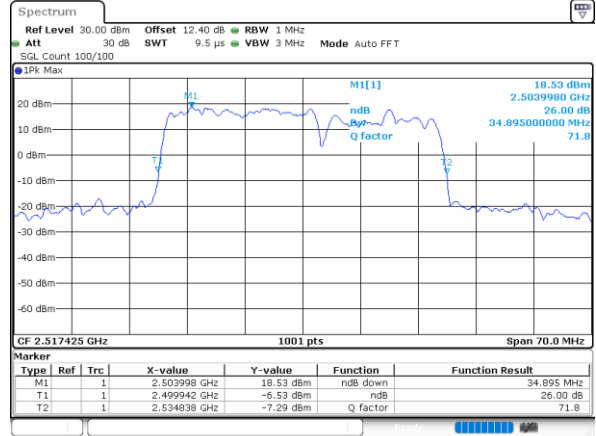
QPSK

Lowest Channel / 20MHz+10MHz



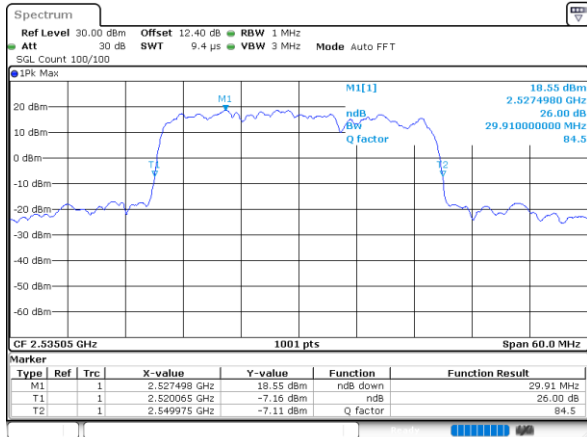
Date: 1..JUL.2020 20:27:32

Lowest Channel / 20MHz+15MHz



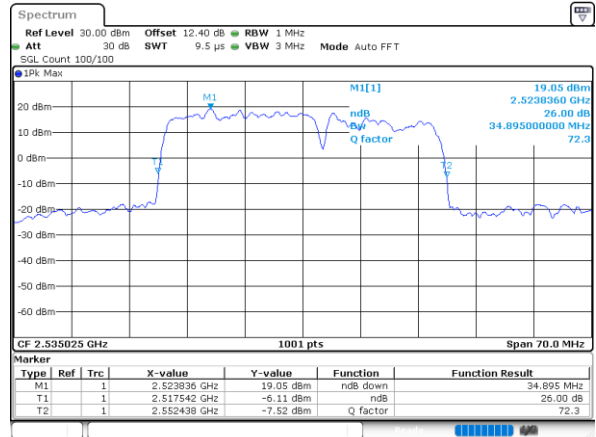
Date: 1..JUL.2020 20:02:11

Middle Channel / 20MHz+10MHz



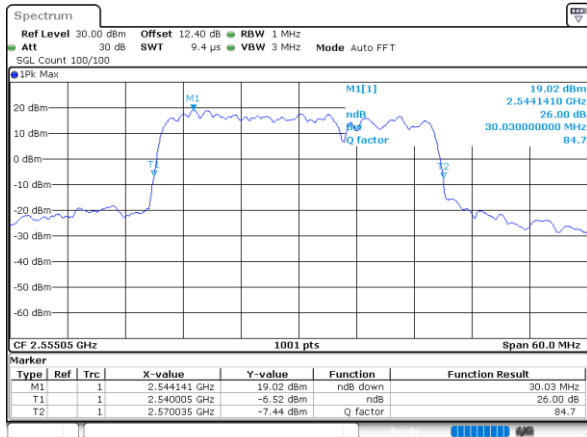
Date: 1..JUL.2020 20:32:20

Middle Channel / 20MHz+15MHz



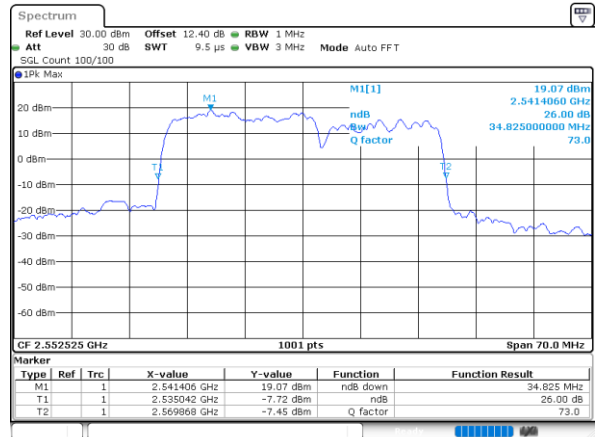
Date: 1..JUL.2020 20:13:48

Highest Channel / 20MHz+10MHz



Date: 1..JUL.2020 20:35:05

Highest Channel / 20MHz+15MHz



Date: 1..JUL.2020 20:18:06

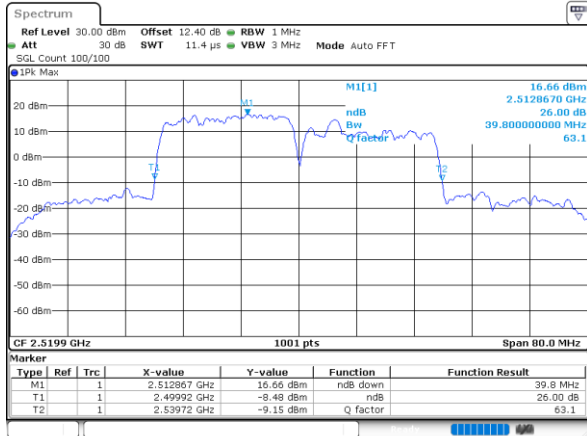


LTE Band 7C

QPSK

Lowest Channel / 20MHz+20MHz

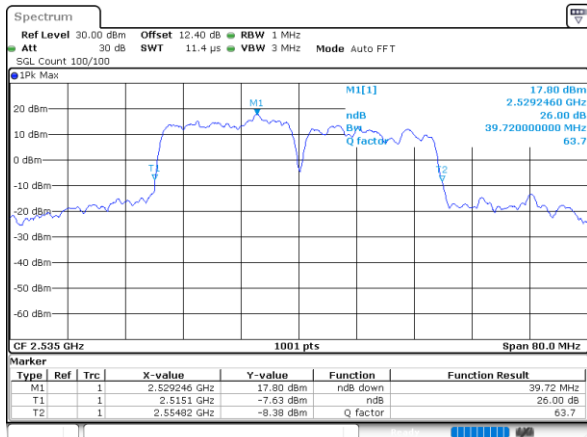
N/A



Date: 29\_JUN.2020 21:57:01

Middle Channel / 20MHz+20MHz

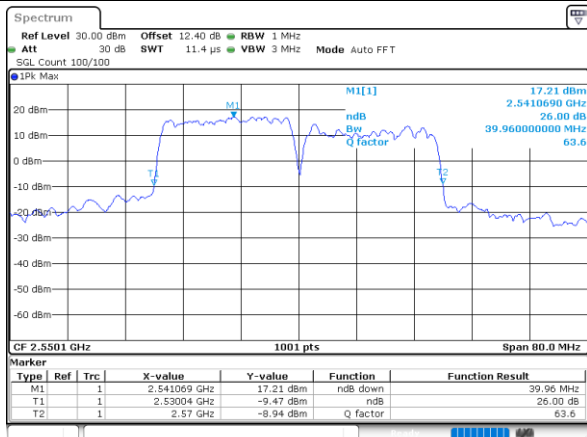
N/A



Date: 1\_JUL.2020 19:47:07

Highest Channel / 20MHz+20MHz

N/A



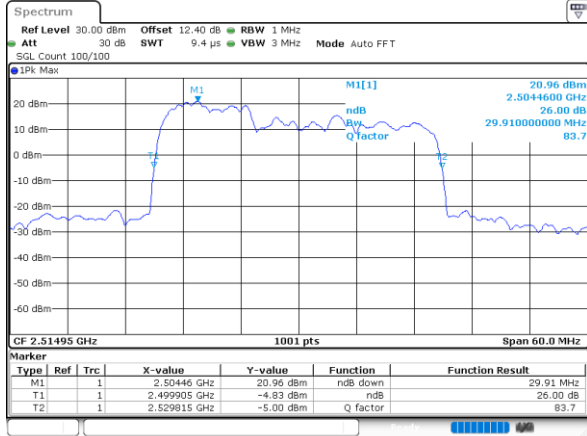
Date: 1\_JUL.2020 19:51:54



LTE Band 7C

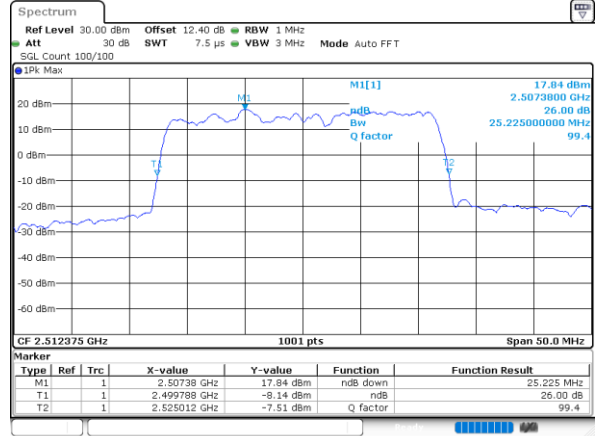
16QAM

Lowest Channel / 10MHz+20MHz



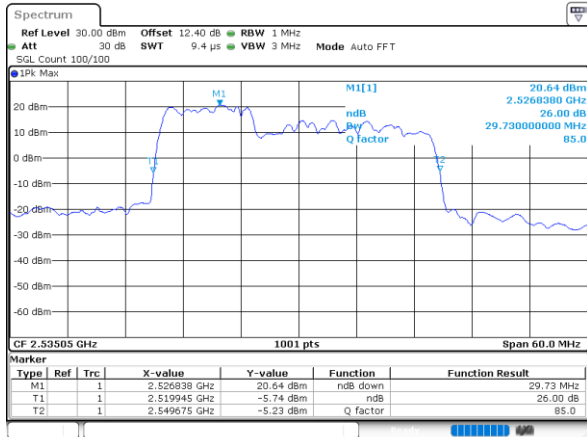
Date: 1..JUL.2020 22:24:21

Lowest Channel / 15MHz+10MHz



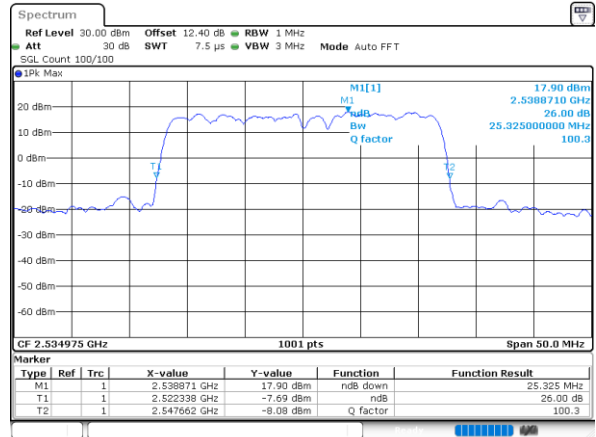
Date: 6..JUL.2020 20:45:39

Middle Channel / 10MHz+20MHz



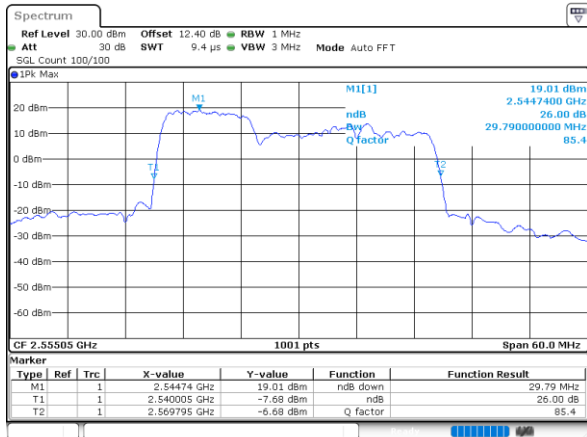
Date: 1..JUL.2020 22:32:00

Middle Channel / 15MHz+10MHz



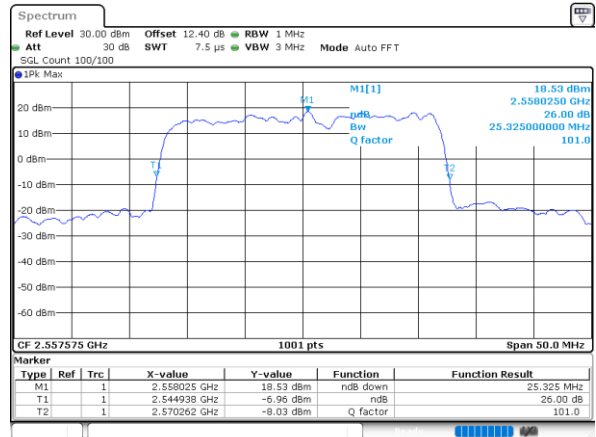
Date: 6..JUL.2020 20:52:37

Highest Channel / 10MHz+20MHz



Date: 1..JUL.2020 22:37:27

Highest Channel / 15MHz+10MHz



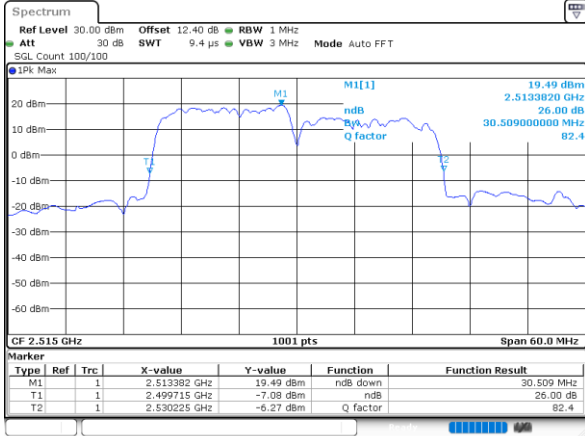
Date: 6..JUL.2020 20:57:35



LTE Band 7C

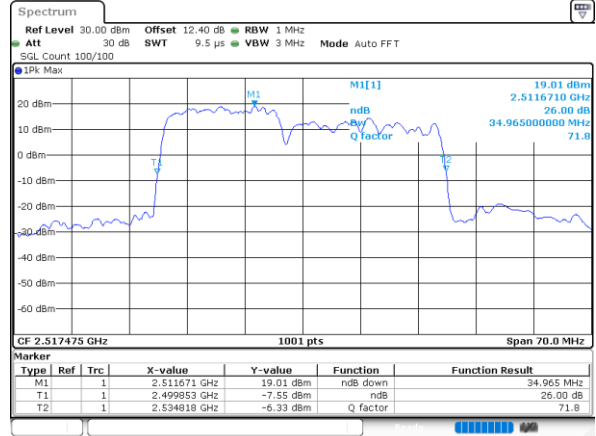
16QAM

Lowest Channel / 15MHz+15MHz



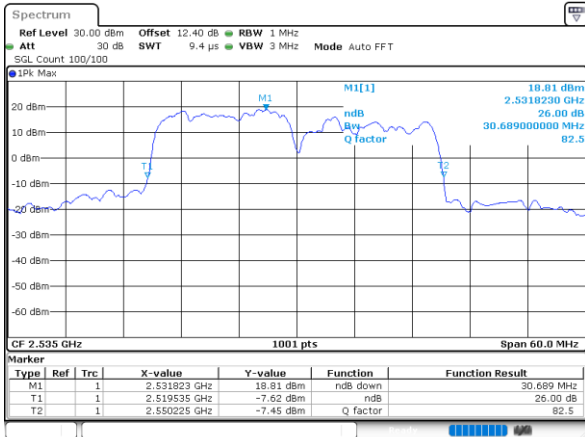
Date: 1..JUL.2020 21:09:07

Lowest Channel / 15MHz+20MHz



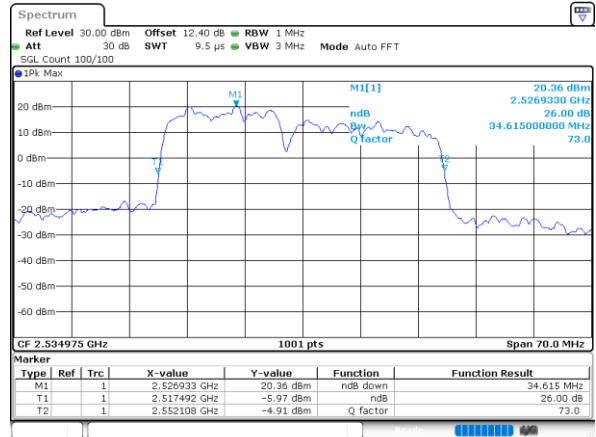
Date: 1..JUL.2020 20:42:31

Middle Channel / 15MHz+15MHz



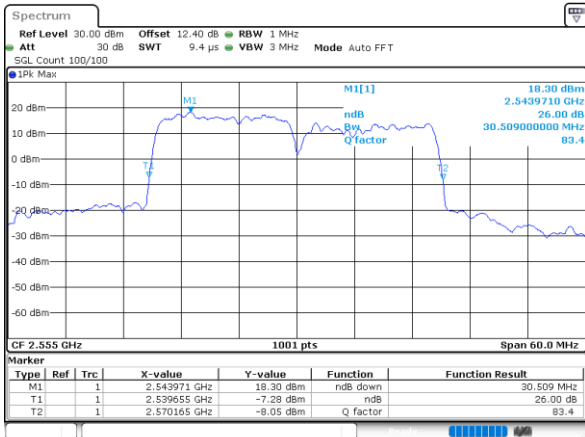
Date: 1..JUL.2020 21:42:53

Middle Channel / 15MHz+20MHz



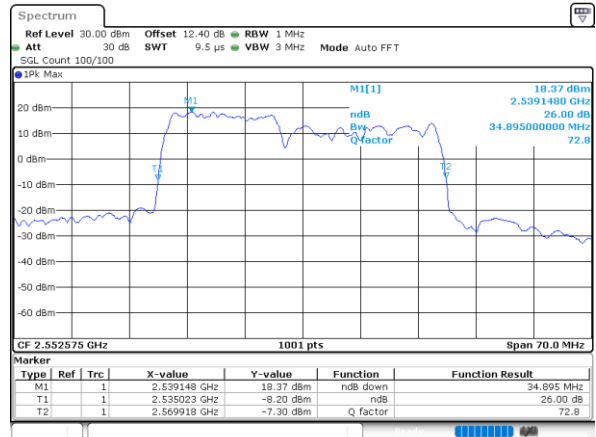
Date: 1..JUL.2020 20:50:17

Highest Channel / 15MHz+15MHz



Date: 1..JUL.2020 21:47:51

Highest Channel / 15MHz+20MHz



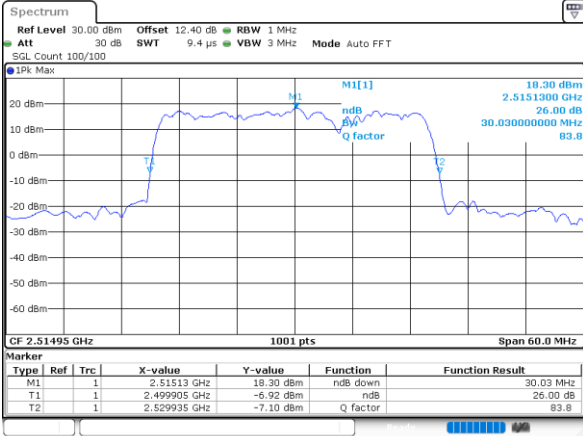
Date: 1..JUL.2020 21:01:52



LTE Band 7C

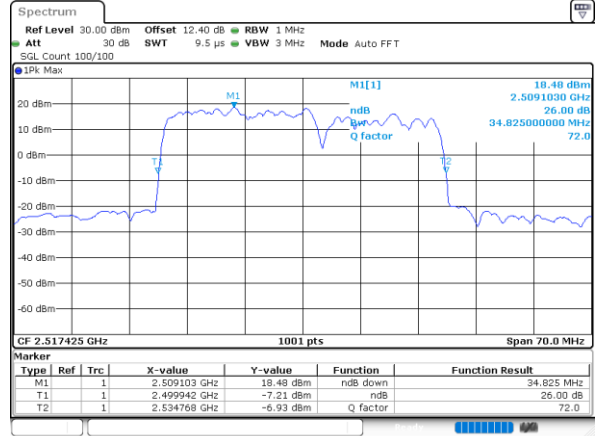
16QAM

Lowest Channel / 20MHz+10MHz



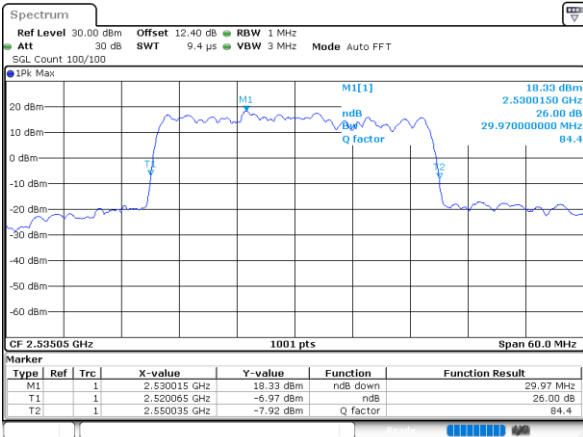
Date: 1..JUL.2020 20:27:09

Lowest Channel / 20MHz+15MHz



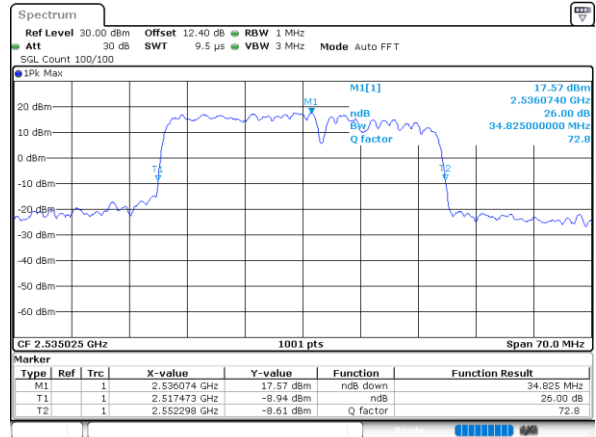
Date: 1..JUL.2020 20:01:48

Middle Channel / 20MHz+10MHz



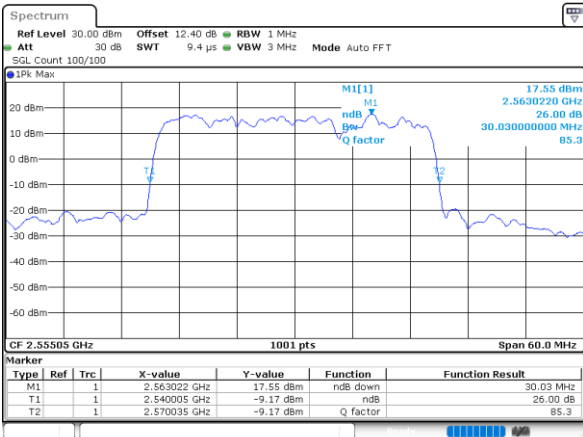
Date: 1..JUL.2020 20:31:57

Middle Channel / 20MHz+15MHz



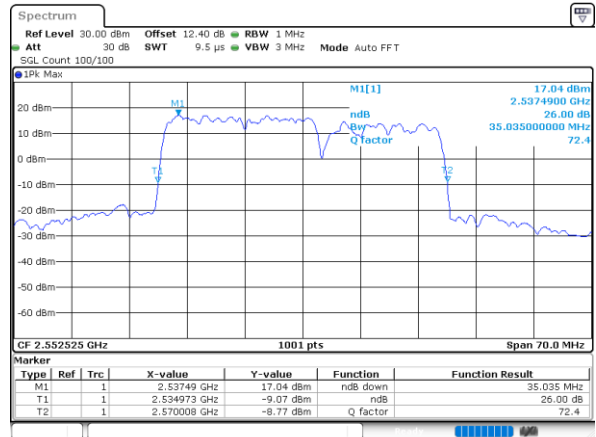
Date: 1..JUL.2020 20:13:25

Highest Channel / 20MHz+10MHz



Date: 1..JUL.2020 20:35:28

Highest Channel / 20MHz+15MHz



Date: 1..JUL.2020 20:18:28

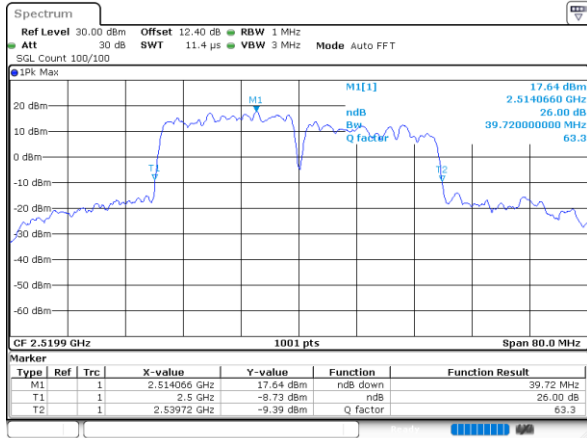


LTE Band 7C

16QAM

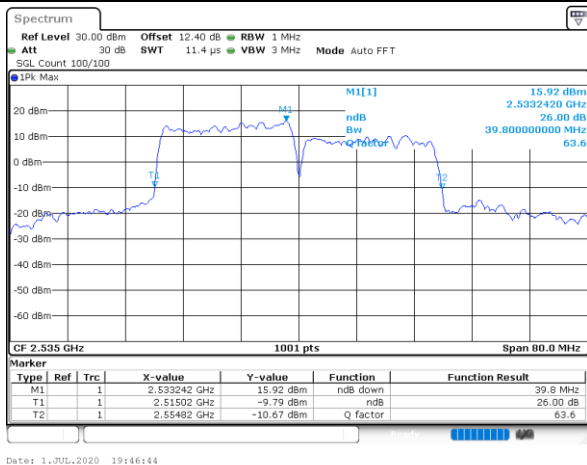
Lowest Channel / 20MHz+20MHz

N/A



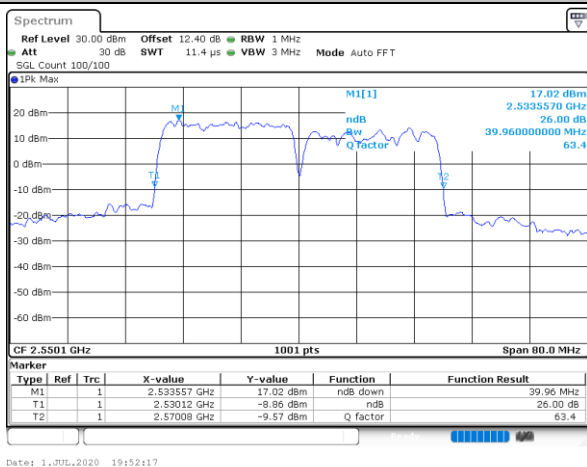
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

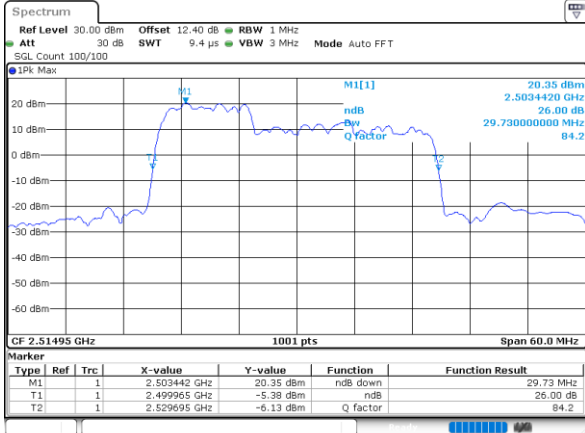




LTE Band 7C

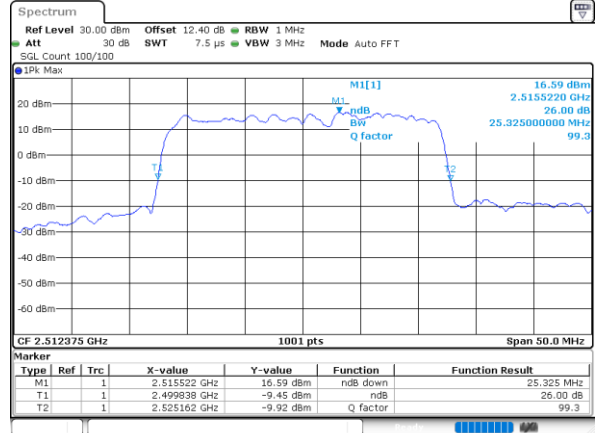
64QAM

Lowest Channel / 10MHz+20MHz



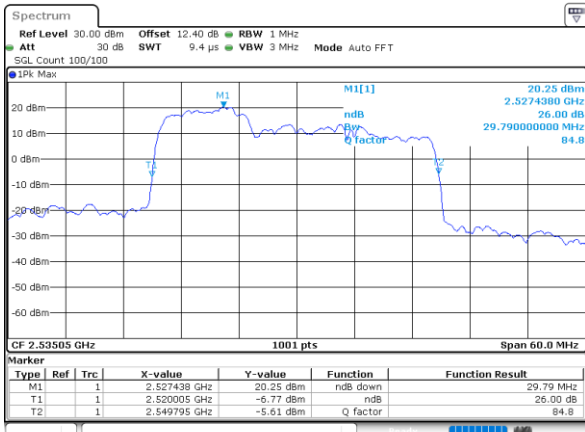
Date: 1..JUL.2020 22:23:58

Lowest Channel / 15MHz+10MHz



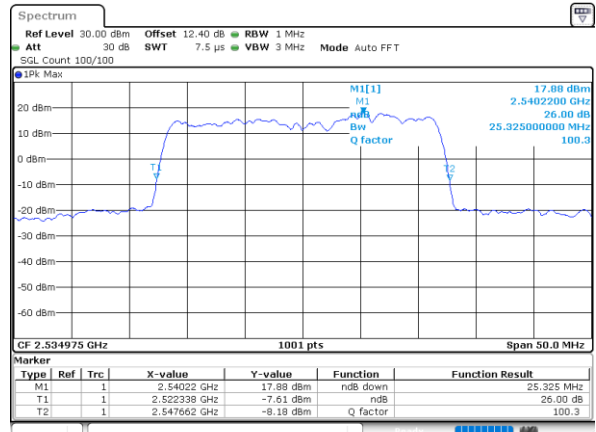
Date: 6..JUL.2020 20:45:16

Middle Channel / 10MHz+20MHz



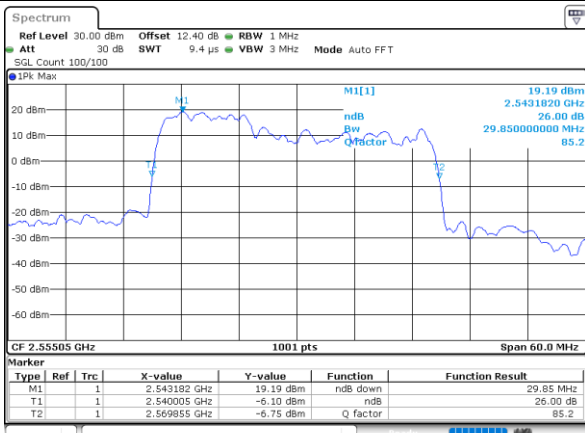
Date: 1..JUL.2020 22:31:37

Middle Channel / 15MHz+10MHz



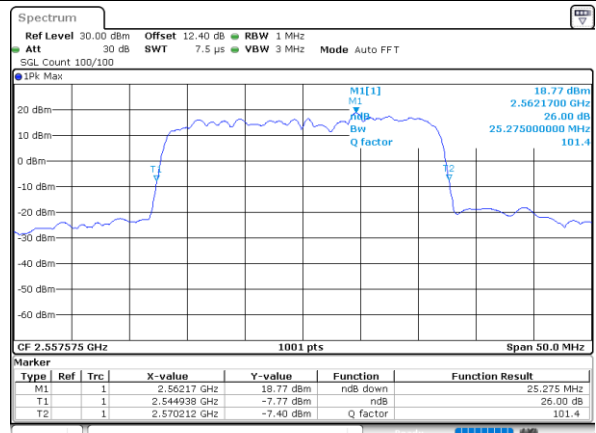
Date: 6..JUL.2020 20:52:14

Highest Channel / 10MHz+20MHz



Date: 1..JUL.2020 22:37:50

Highest Channel / 15MHz+10MHz



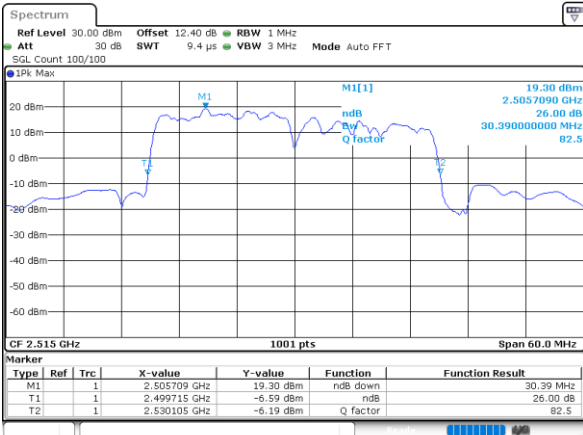
Date: 6..JUL.2020 20:57:58



LTE Band 7C

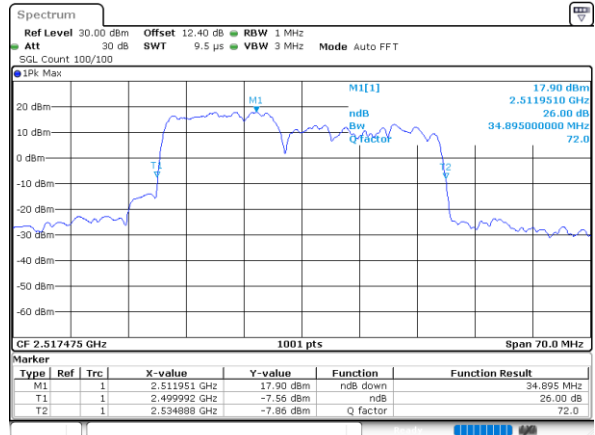
64QAM

Lowest Channel / 15MHz+15MHz



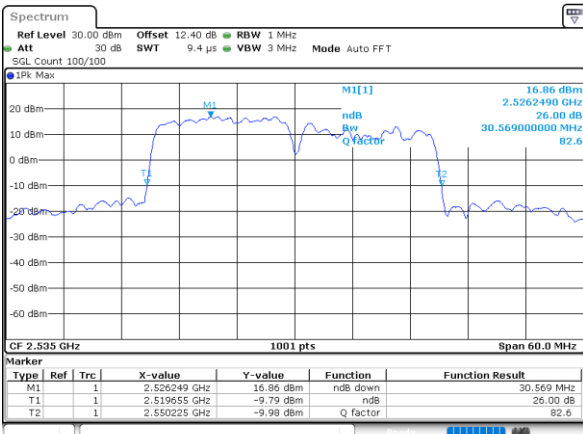
Date: 1..JUL.2020 21:08:44

Lowest Channel / 15MHz+20MHz



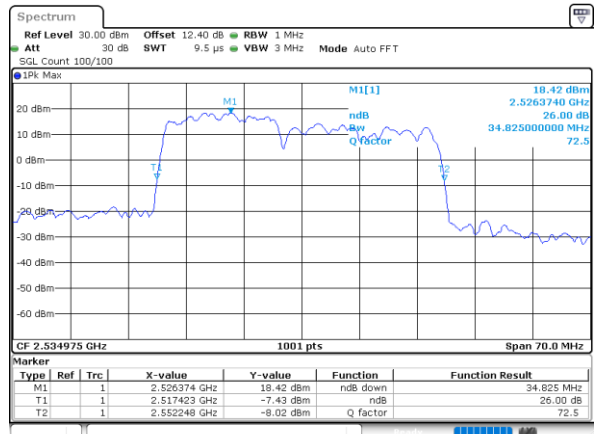
Date: 1..JUL.2020 20:40:13

Middle Channel / 15MHz+15MHz



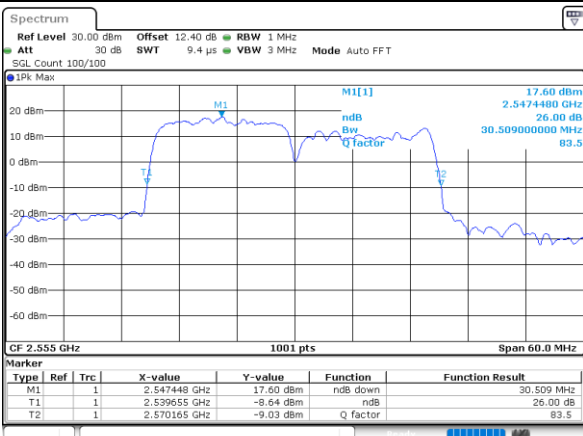
Date: 1..JUL.2020 21:42:31

Middle Channel / 15MHz+20MHz



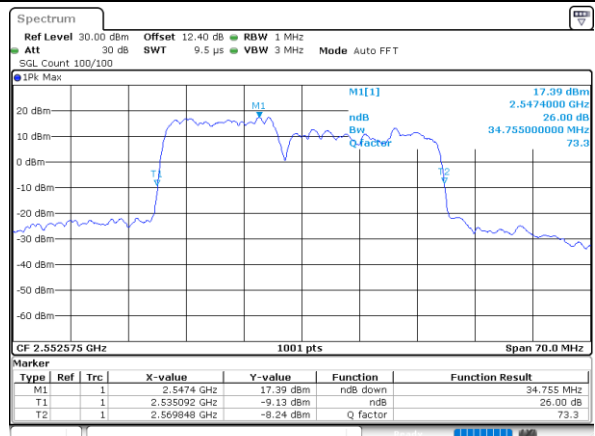
Date: 1..JUL.2020 20:49:54

Highest Channel / 15MHz+15MHz



Date: 1..JUL.2020 21:48:14

Highest Channel / 15MHz+20MHz



Date: 1..JUL.2020 21:02:15

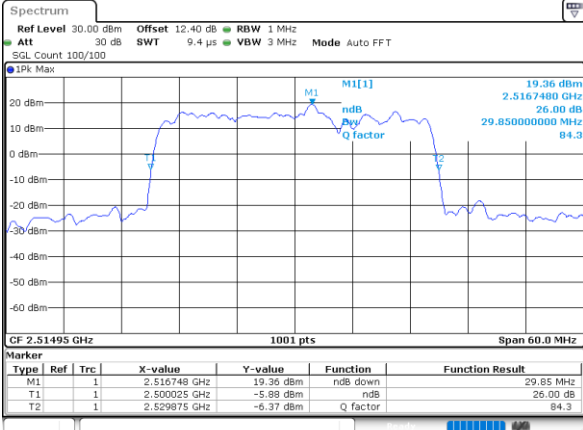




LTE Band 7C

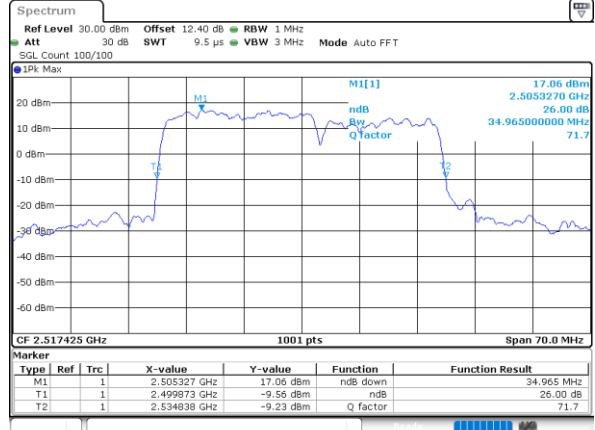
64QAM

Lowest Channel / 20MHz+10MHz



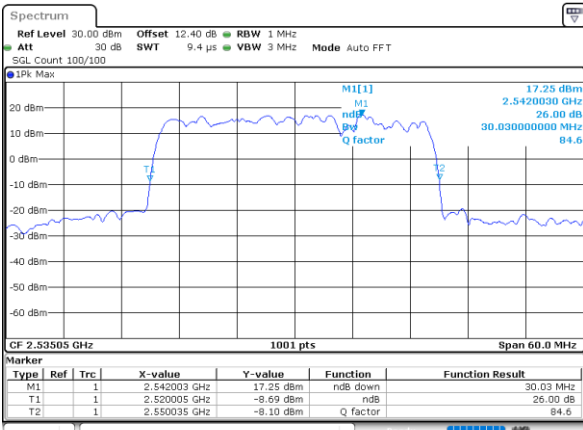
Date: 1..JUL.2020 20:26:47

Lowest Channel / 20MHz+15MHz



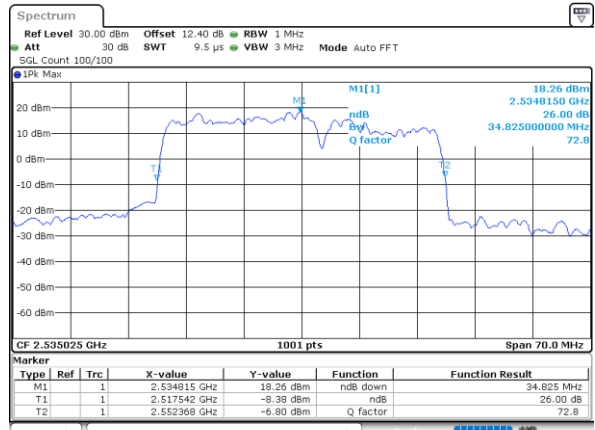
Date: 1..JUL.2020 20:01:26

Middle Channel / 20MHz+10MHz



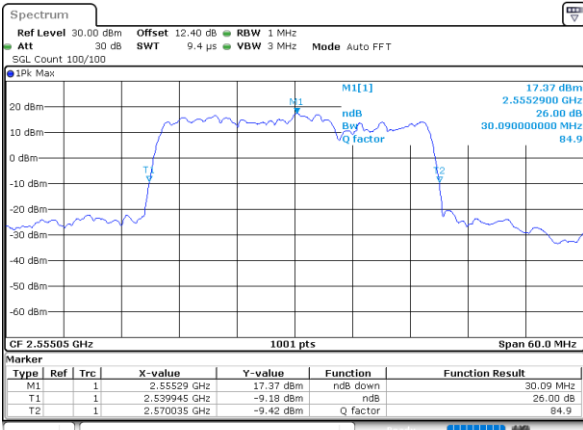
Date: 1..JUL.2020 20:31:34

Middle Channel / 20MHz+15MHz



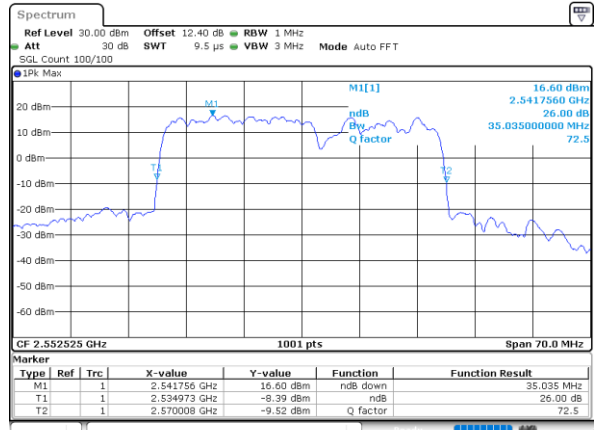
Date: 1..JUL.2020 20:13:02

Highest Channel / 20MHz+10MHz



Date: 1..JUL.2020 20:35:51

Highest Channel / 20MHz+15MHz



Date: 1..JUL.2020 20:18:51

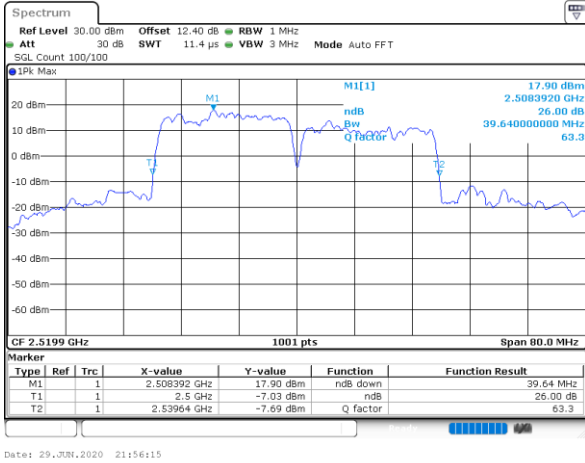


LTE Band 7C

64QAM

Lowest Channel / 20MHz+20MHz

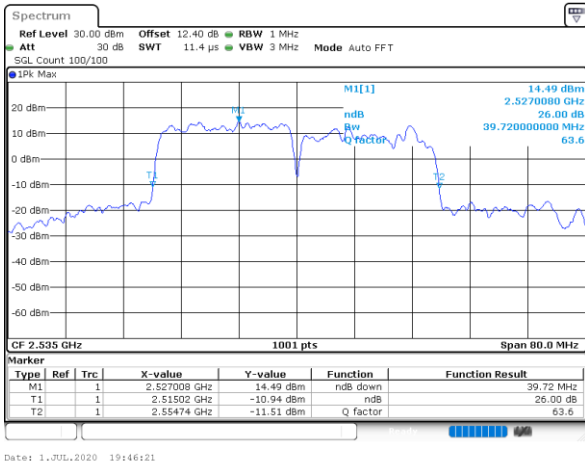
N/A



Date: 29.JUN.2020 21:56:15

Middle Channel / 20MHz+20MHz

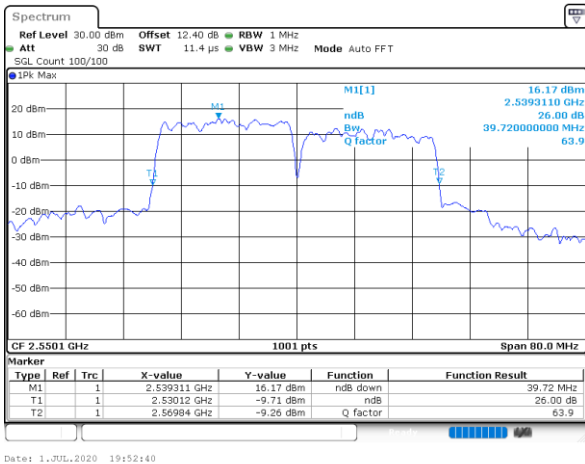
N/A



Date: 1.JUL.2020 19:46:21

Highest Channel / 20MHz+20MH

N/A



Date: 1.JUL.2020 19:52:40



Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.81	23.38	28.53	32.73
Middle CH	27.69	23.48	28.59	32.52
Highest CH	27.75	23.48	28.59	32.80
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.23	32.80	37.48	-
Middle CH	27.87	32.66	37.48	-
Highest CH	27.99	32.59	37.88	-

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.93	23.13	28.71	32.66
Middle CH	27.93	23.43	28.53	32.59
Highest CH	27.93	23.48	28.53	33.01
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.99	32.80	37.48	-
Middle CH	27.81	32.73	37.56	-
Highest CH	28.11	32.66	37.56	-

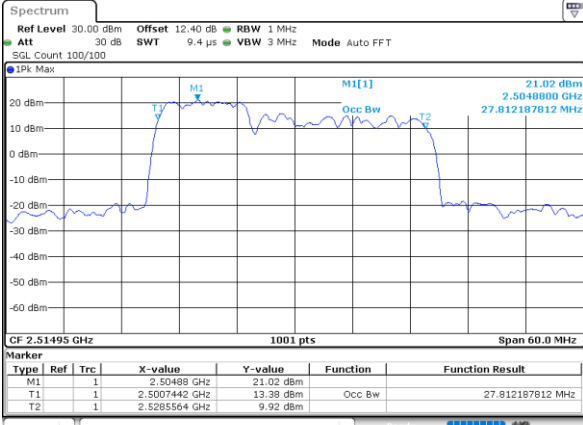
Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.51	23.43	28.47	32.59
Middle CH	27.99	23.38	28.65	32.80
Highest CH	27.93	23.38	28.53	32.66
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.75	32.59	37.32	-
Middle CH	27.69	32.59	37.80	-
Highest CH	28.11	32.73	37.16	-



LTE Band 7C

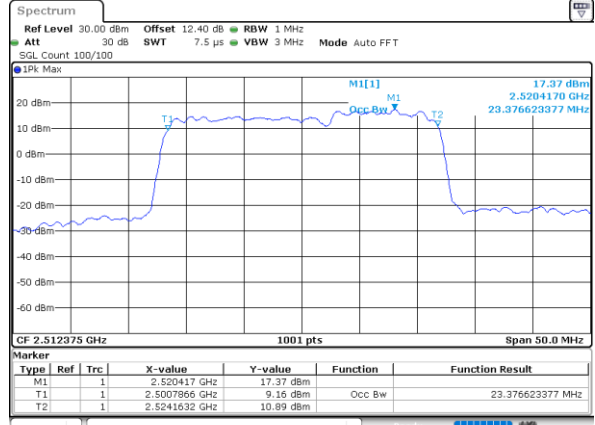
QPSK

Lowest Channel / 10MHz+20MHz



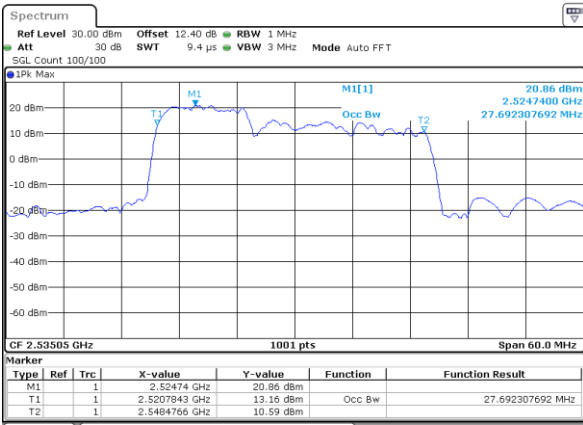
Date: 1..JUL.2020 22:22:50

Lowest Channel / 15MHz+10MHz



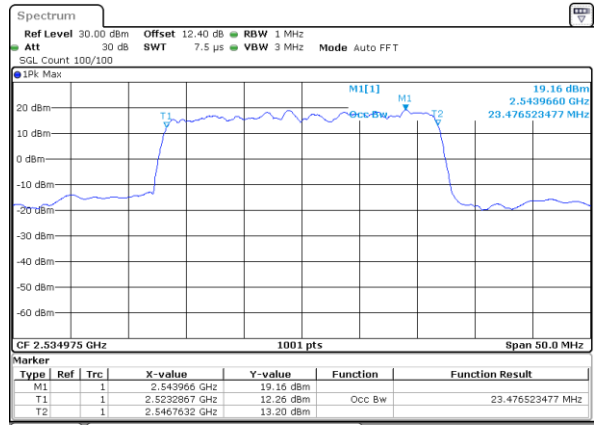
Date: 6..JUL.2020 20:44:08

Middle Channel / 10MHz+20MHz



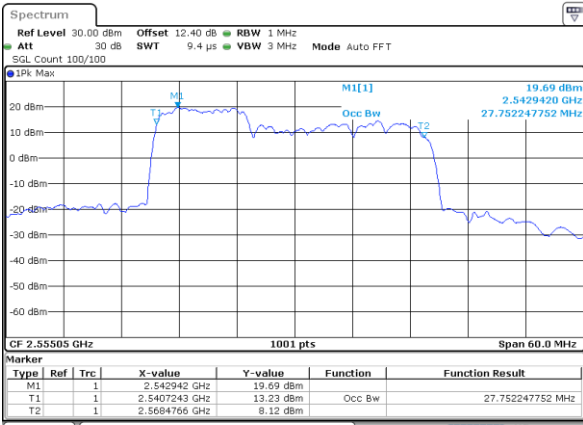
Date: 1..JUL.2020 22:10:29

Middle Channel / 15MHz+10MHz



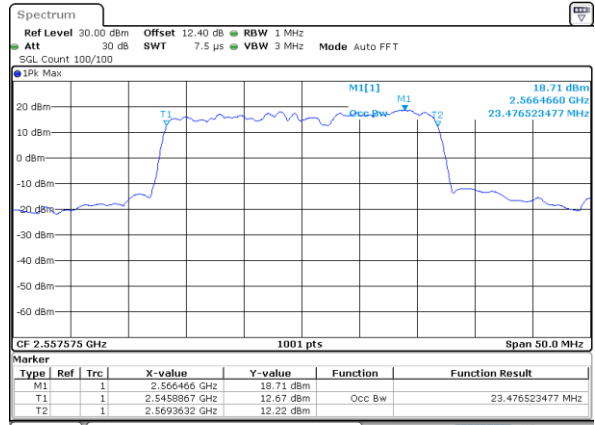
Date: 6..JUL.2020 20:50:02

Highest Channel / 10MHz+20MHz



Date: 1..JUL.2020 22:16:42

Highest Channel / 15MHz+10MHz



Date: 6..JUL.2020 20:56:50