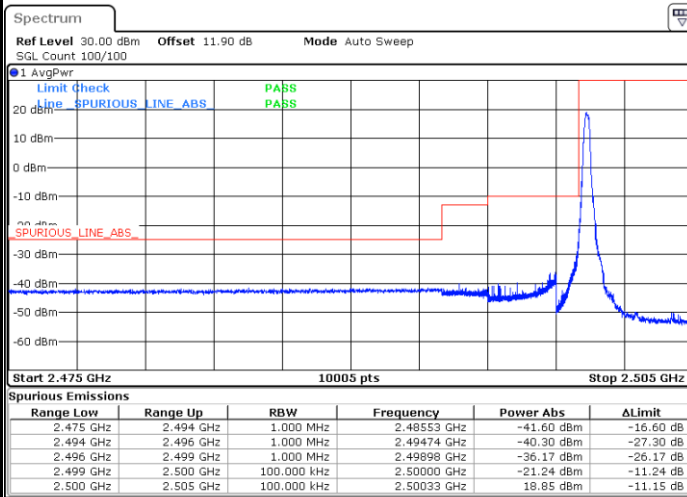




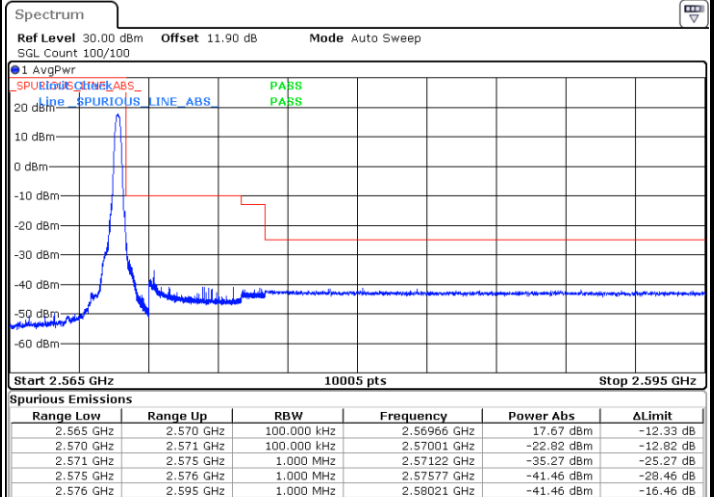
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



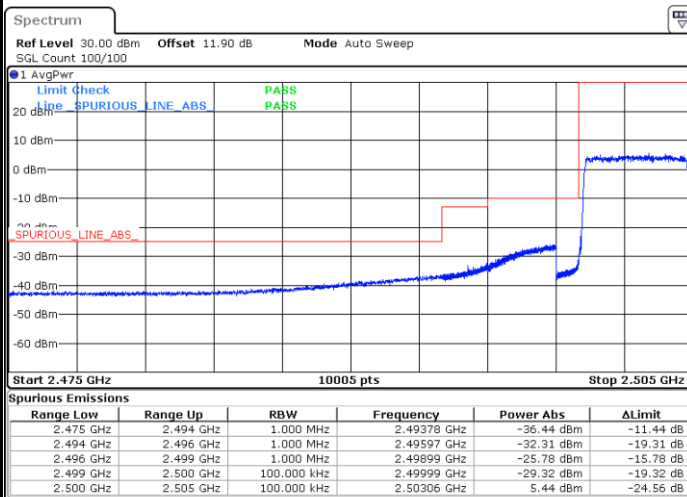
Date: 11.FEB.2020 07:51:34

Highest Band Edge / 1 RB



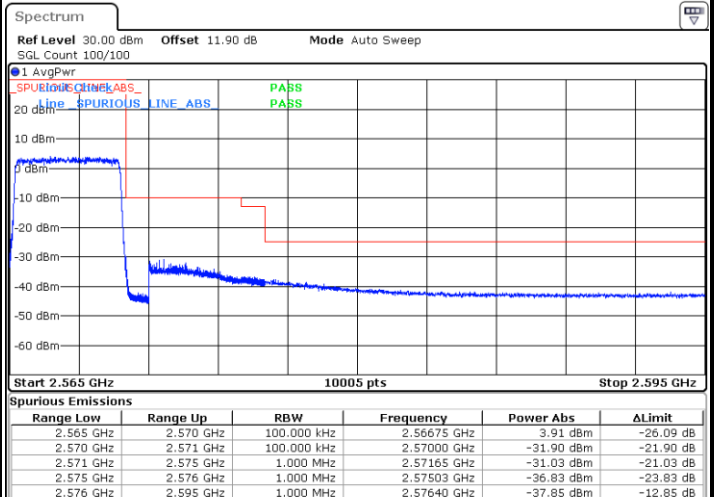
Date: 11.FEB.2020 07:56:35

Lowest Band Edge / Full RB



Date: 11.FEB.2020 07:52:46

Highest Band Edge / Full RB



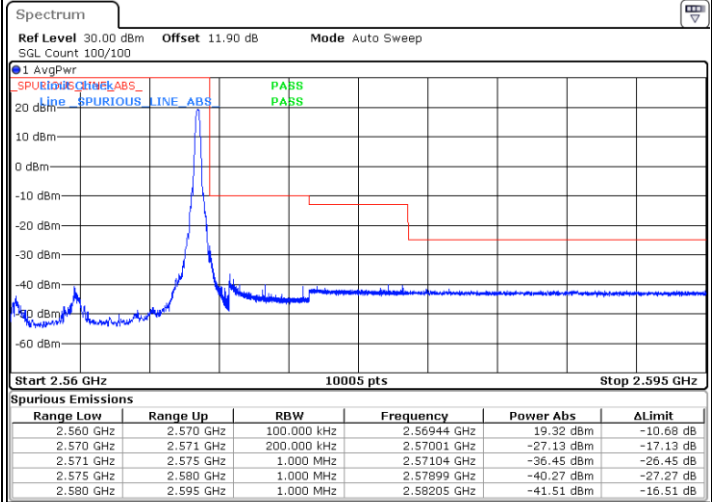
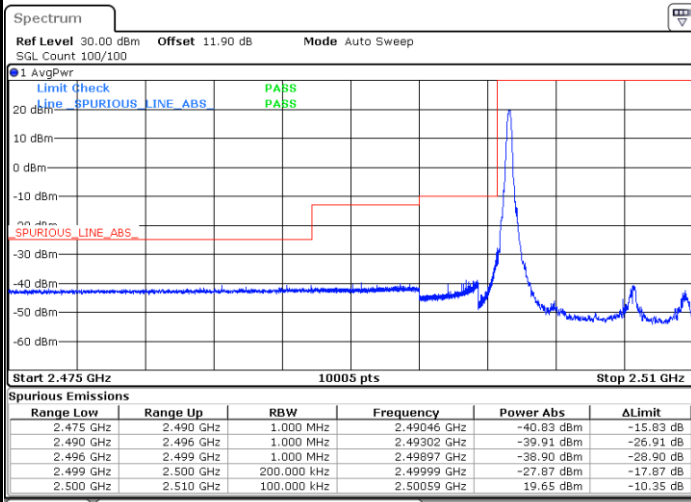
Date: 11.FEB.2020 07:57:46



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

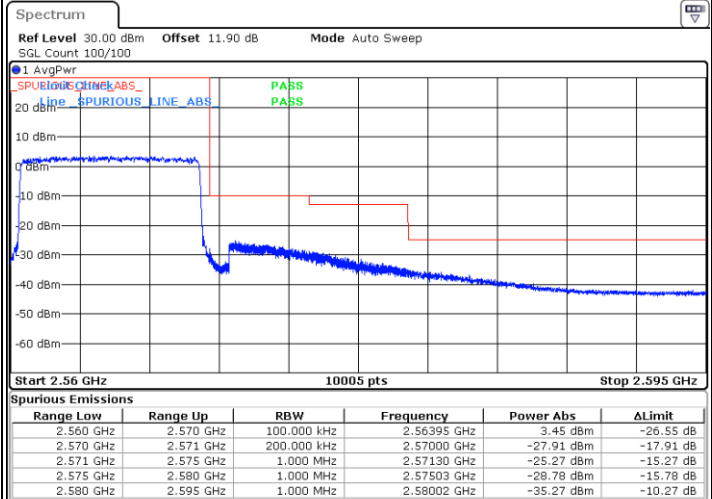
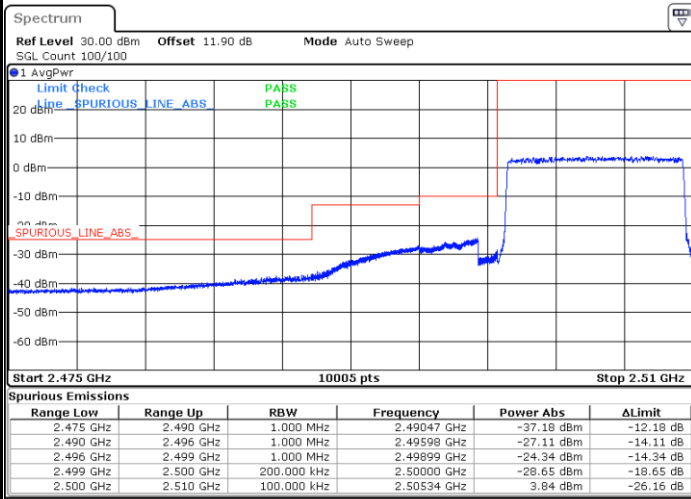


Date: 11.FEB.2020 08:00:45

Date: 11.FEB.2020 08:10:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.FEB.2020 08:03:08

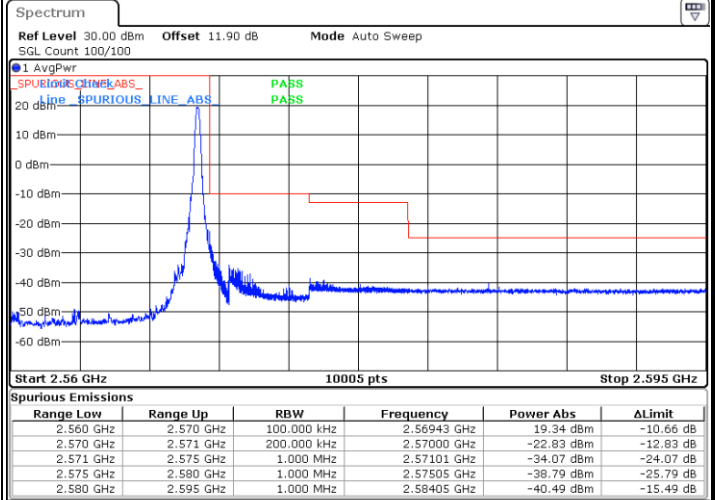
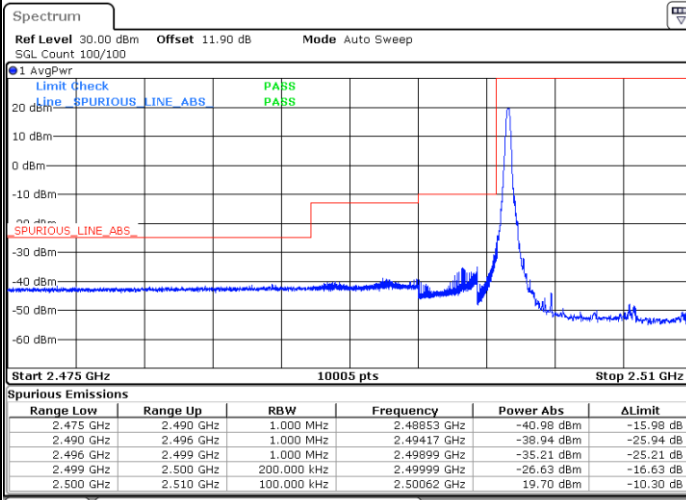
Date: 11.FEB.2020 08:13:10



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

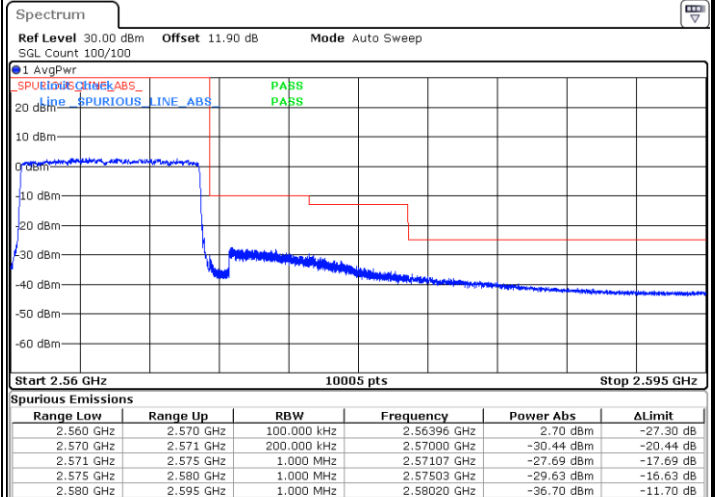
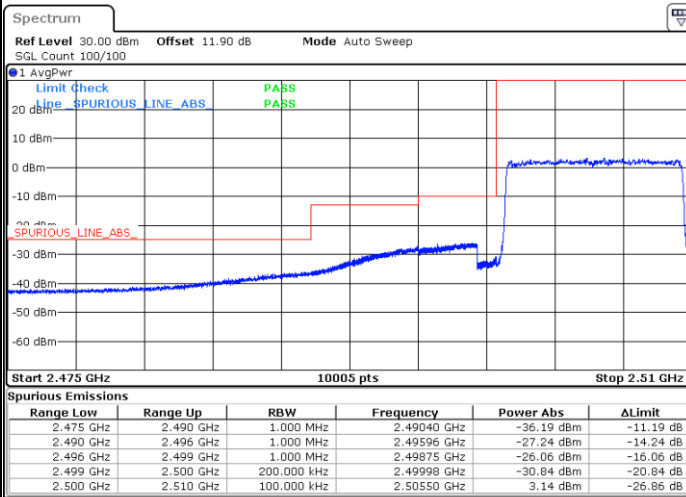


Date: 11.FEB.2020 08:01:57

Date: 11.FEB.2020 08:11:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



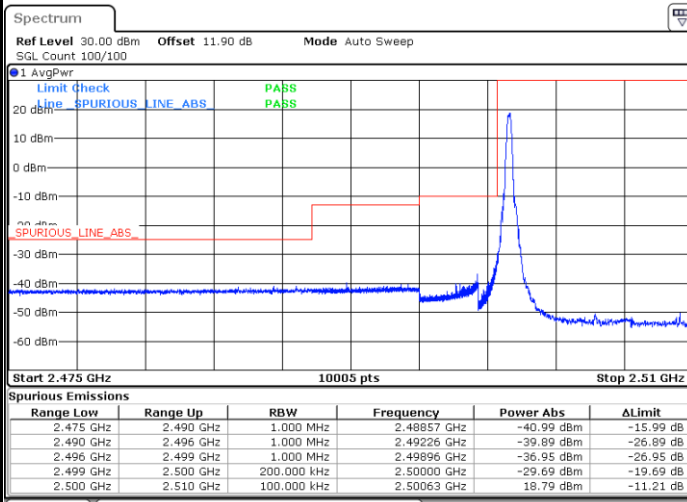
Date: 11.FEB.2020 08:04:20

Date: 11.FEB.2020 08:14:21

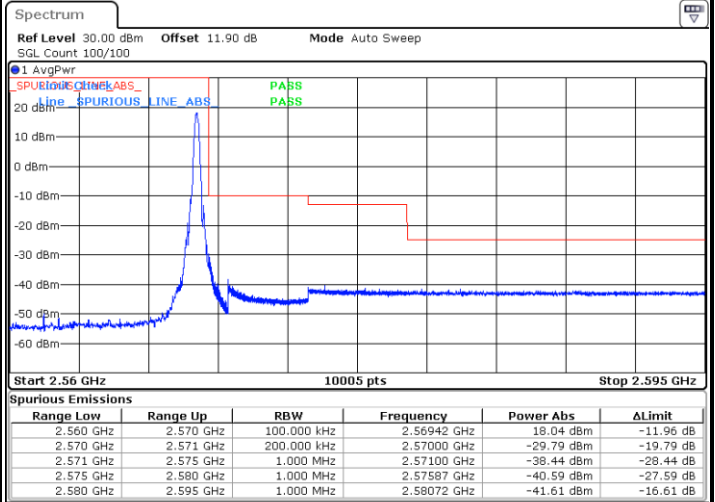


LTE Band 7 / 10MHz / 64QAM

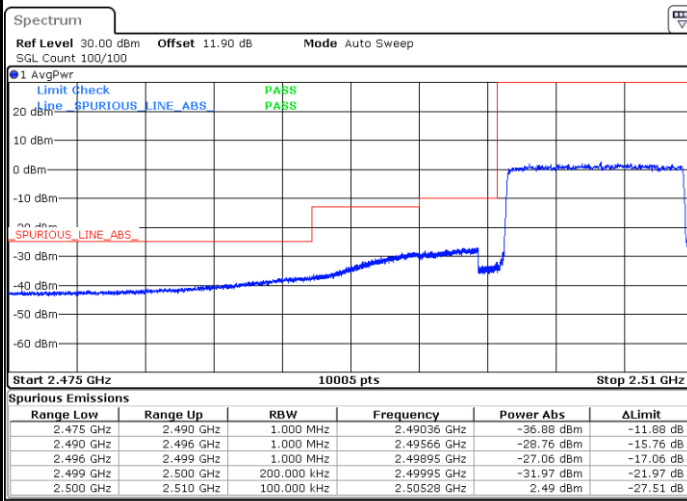
Lowest Band Edge / 1 RB



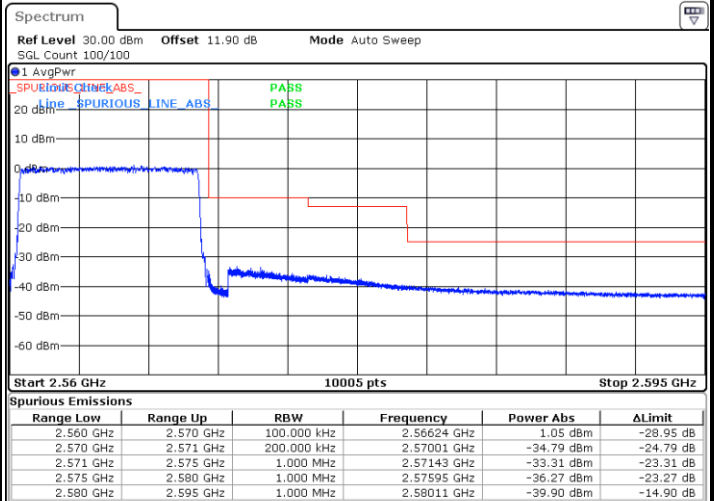
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



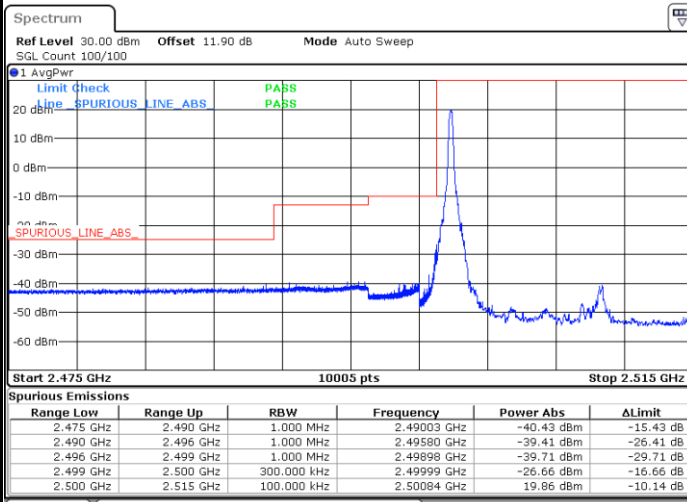
Highest Band Edge / Full RB





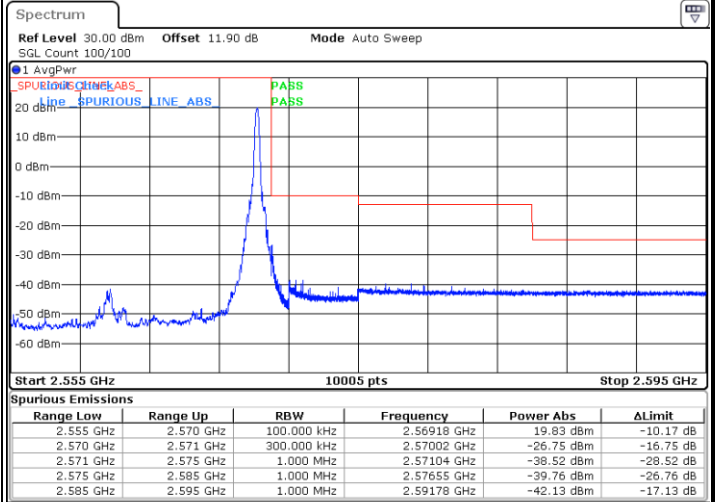
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



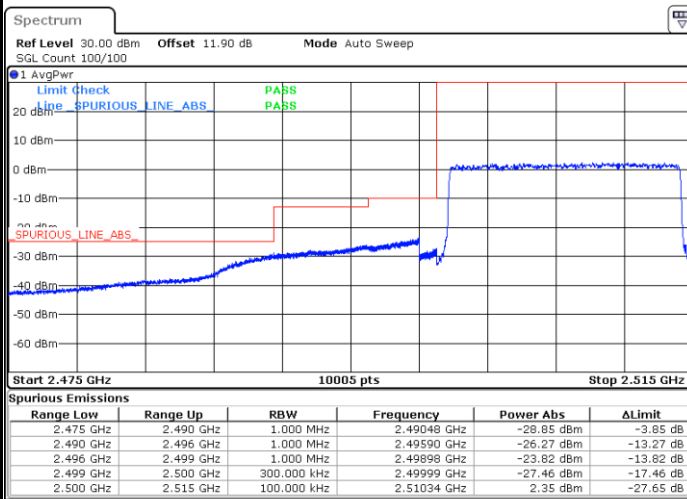
Date: 11.FEB.2020 08:26:57

Highest Band Edge / 1 RB



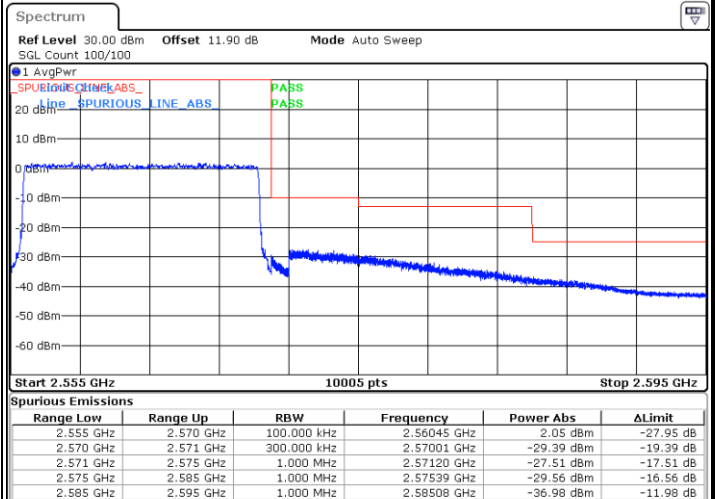
Date: 11.FEB.2020 08:37:00

Lowest Band Edge / Full RB



Date: 11.FEB.2020 08:29:20

Highest Band Edge / Full RB

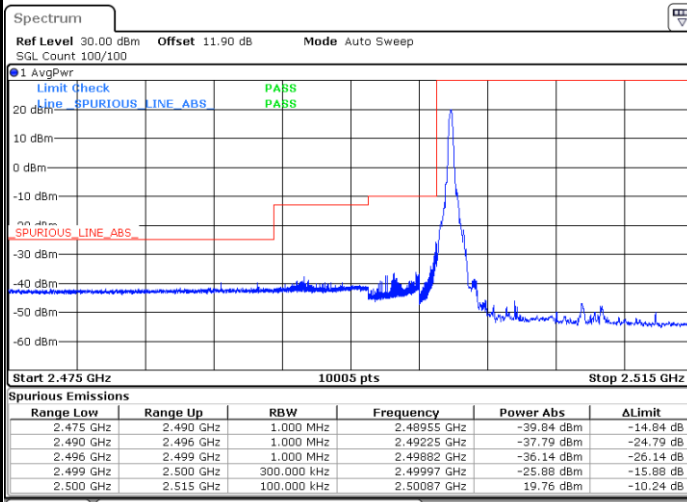


Date: 11.FEB.2020 08:39:23



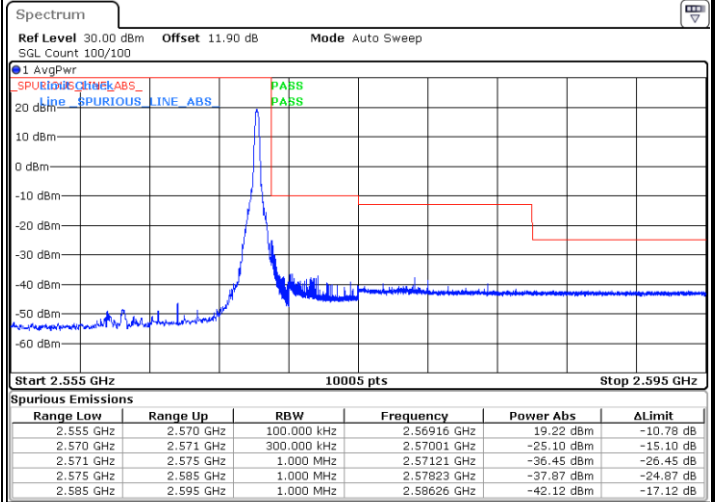
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



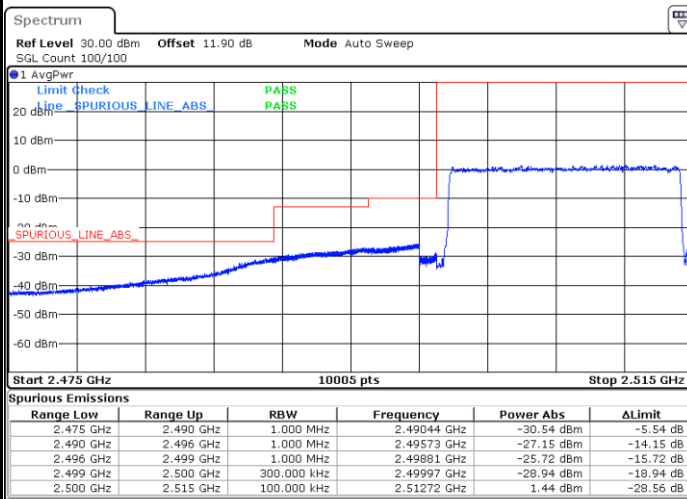
Date: 11.FEB.2020 08:28:08

Highest Band Edge / 1 RB



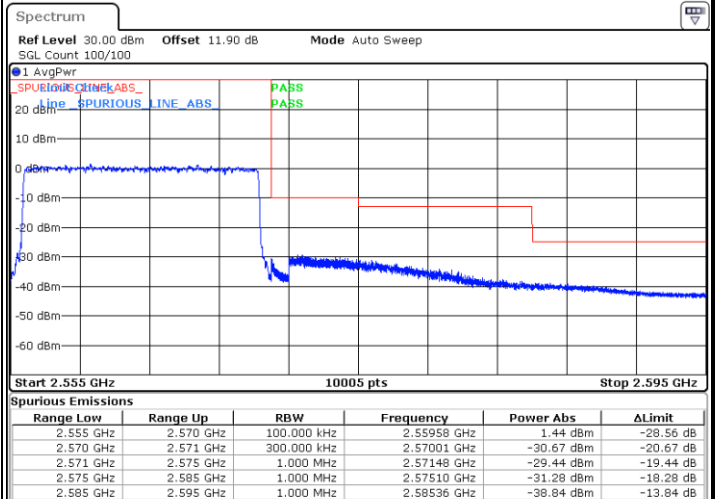
Date: 11.FEB.2020 08:38:12

Lowest Band Edge / Full RB



Date: 11.FEB.2020 08:30:32

Highest Band Edge / Full RB

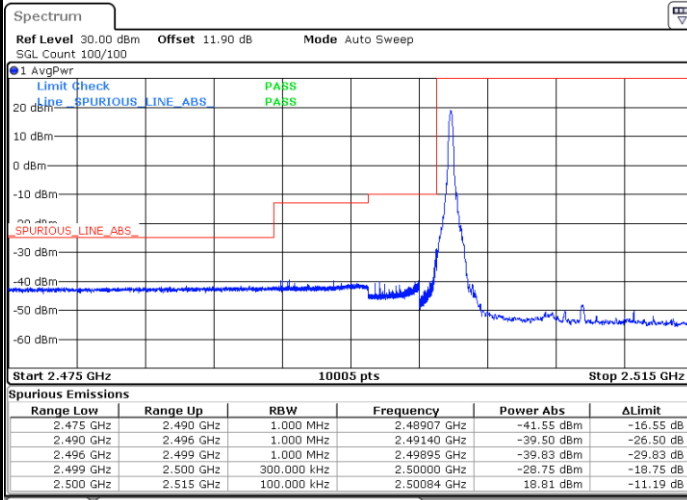


Date: 11.FEB.2020 08:40:35

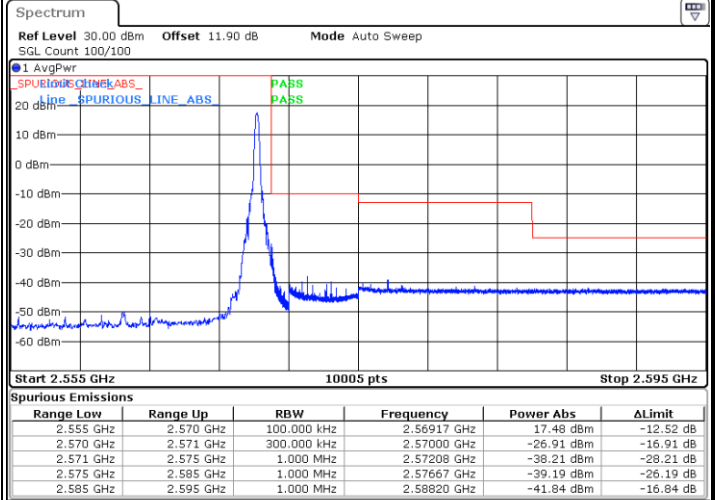


LTE Band 7 / 15MHz / 64QAM

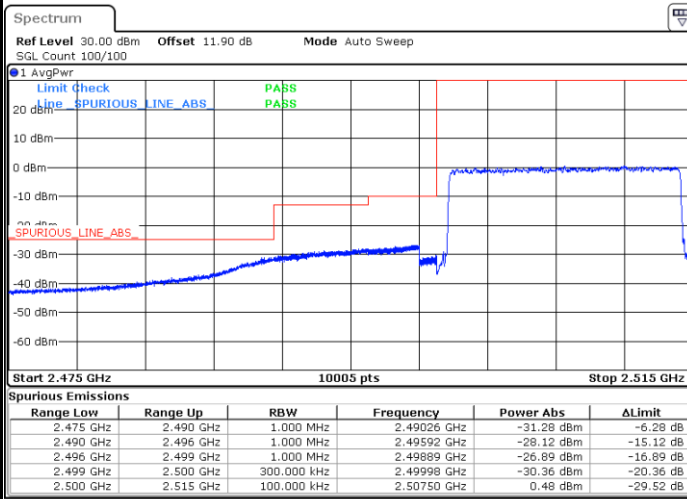
Lowest Band Edge / 1 RB



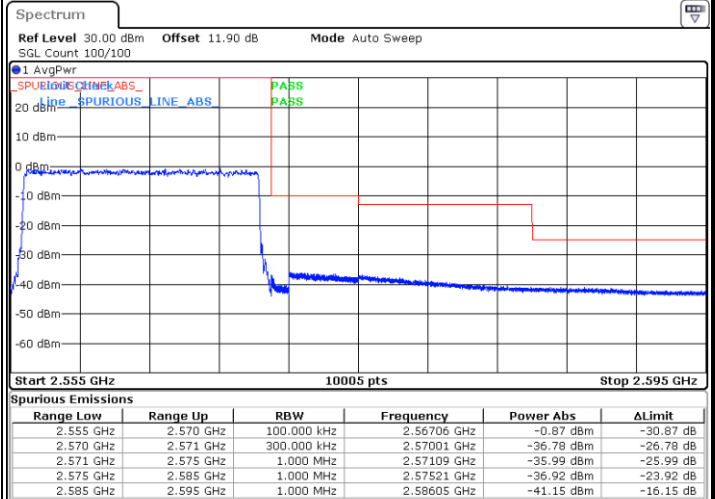
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



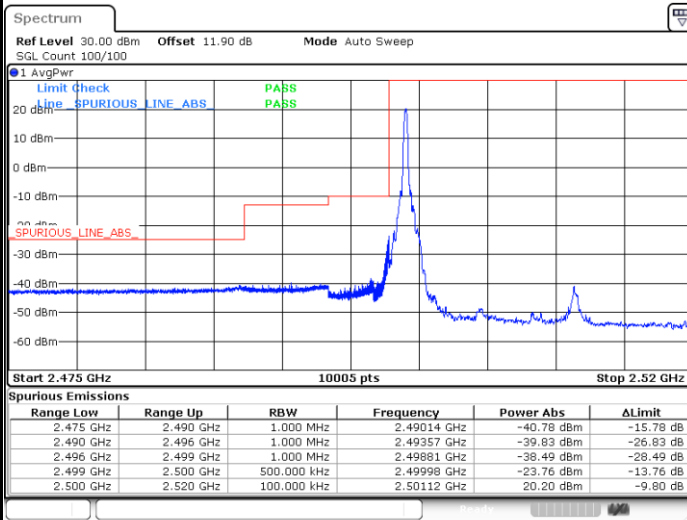
Highest Band Edge / Full RB



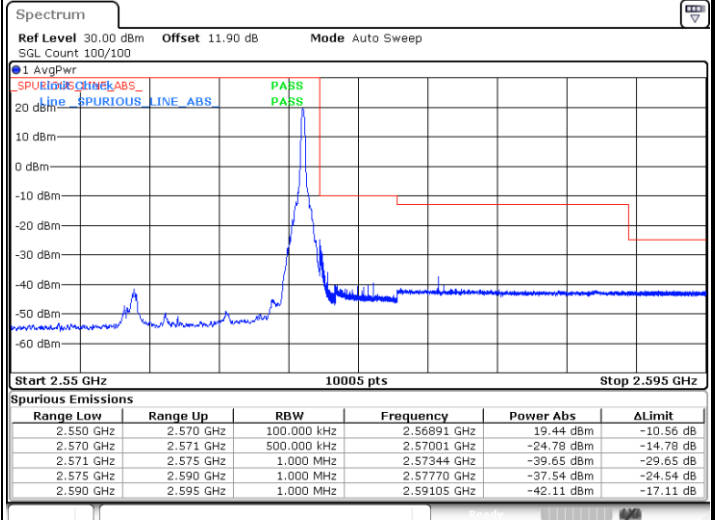


LTE Band 7 / 20MHz / QPSK

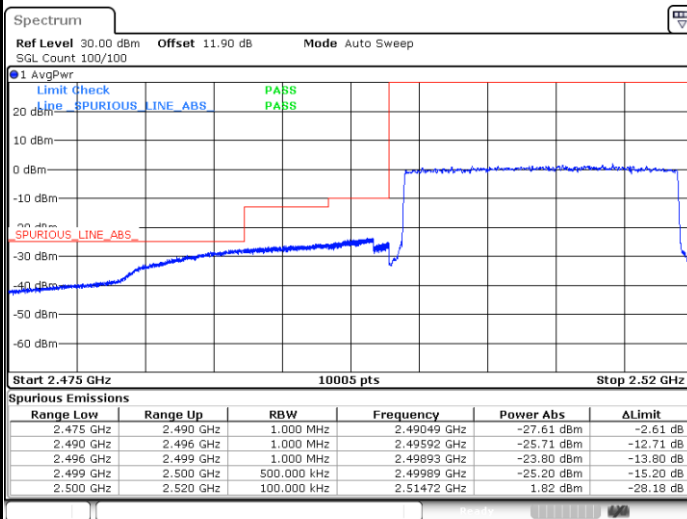
Lowest Band Edge / 1 RB



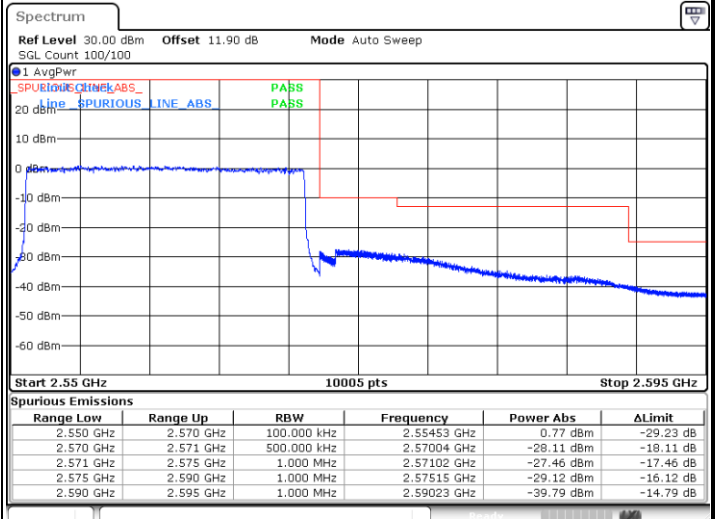
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



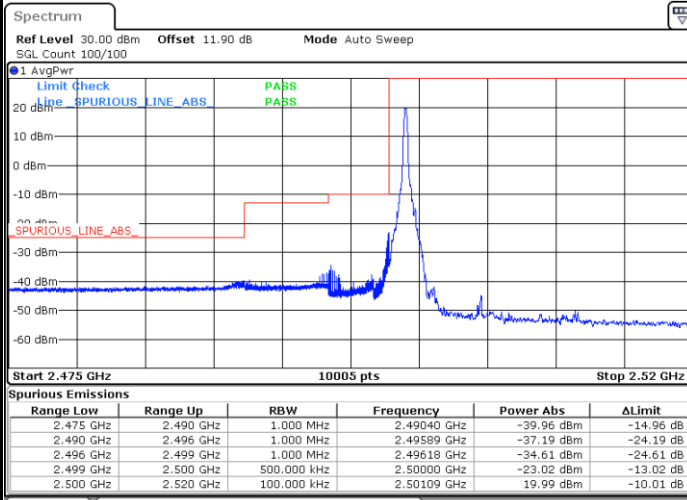
Highest Band Edge / Full RB



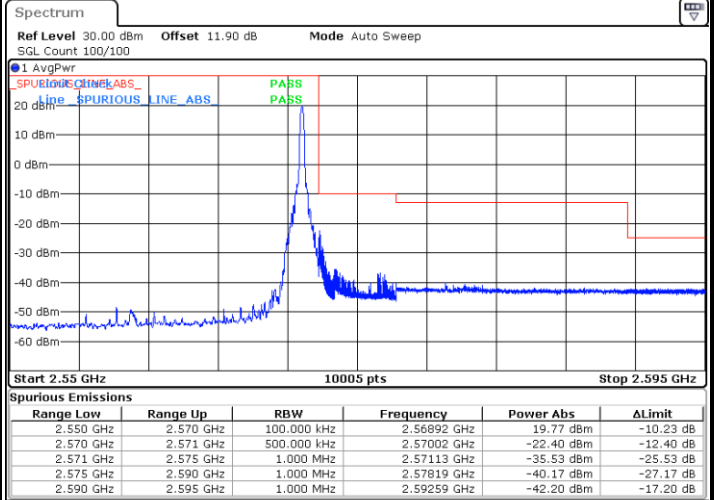


LTE Band 7 / 20MHz / 16QAM

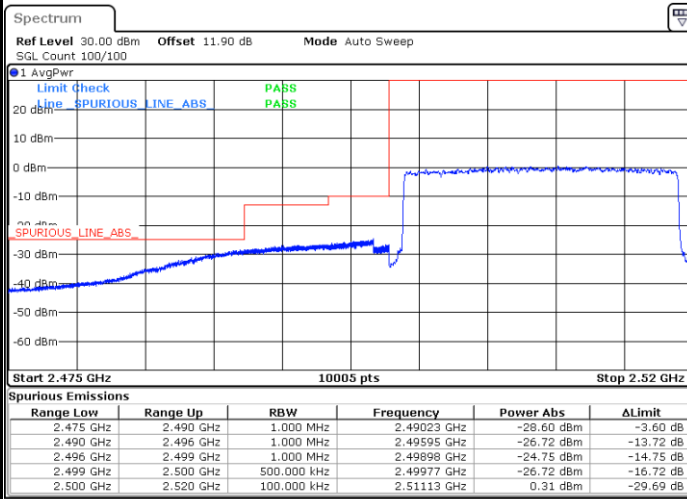
Lowest Band Edge / 1 RB



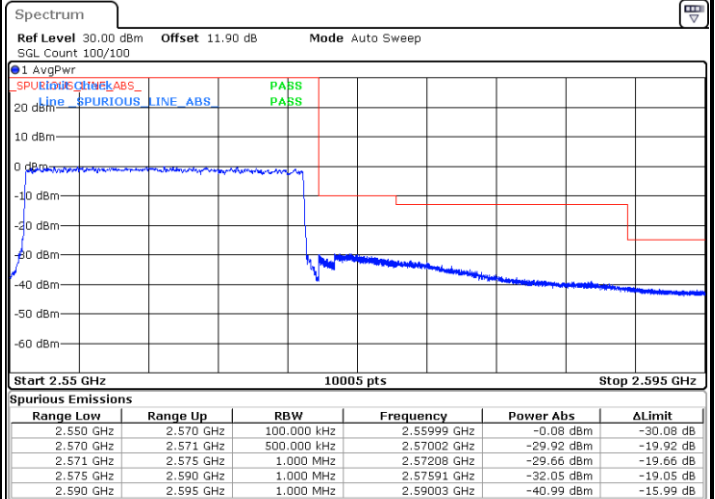
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



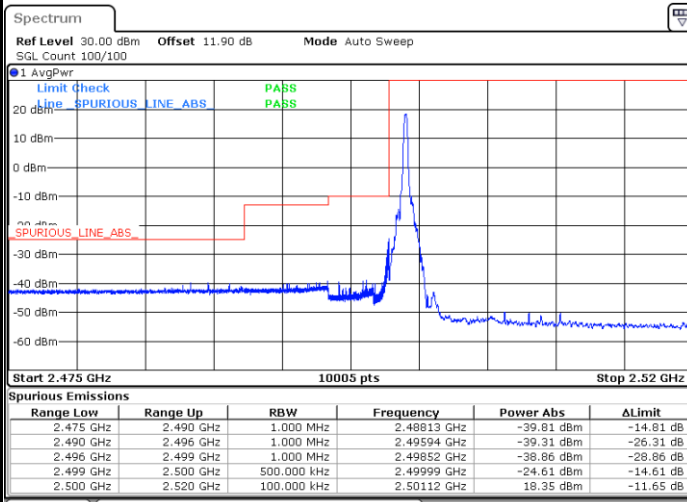
Highest Band Edge / Full RB





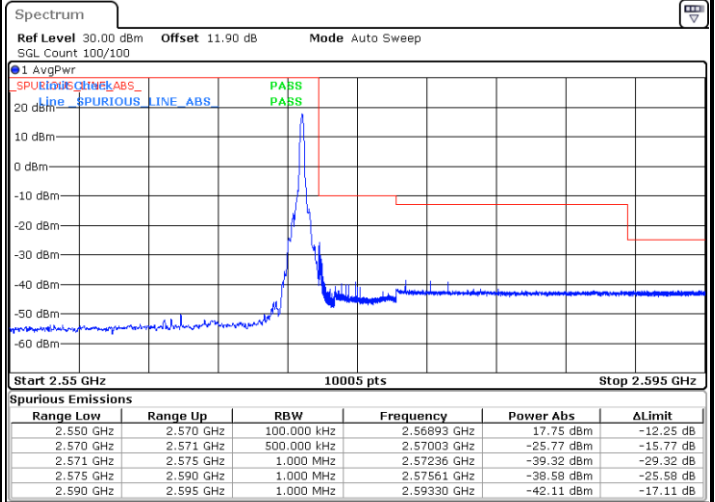
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



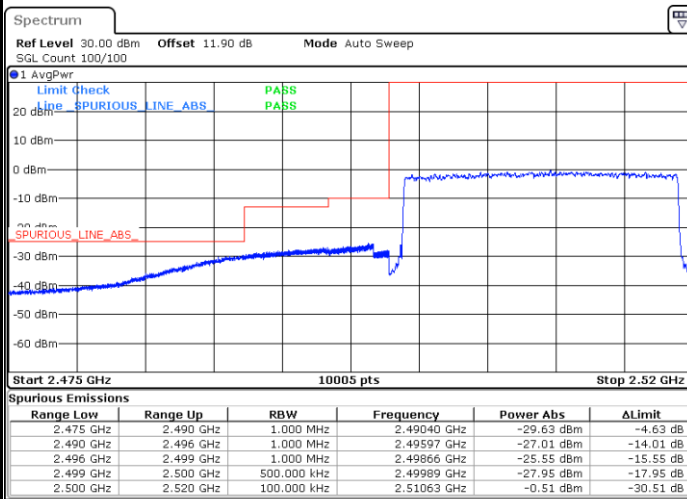
Date: 11.FEB.2020 19:22:16

Highest Band Edge / 1 RB



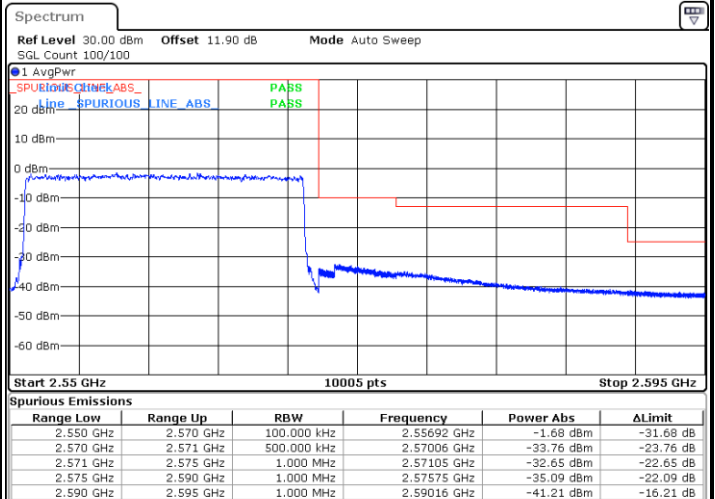
Date: 11.FEB.2020 19:27:20

Lowest Band Edge / Full RB



Date: 11.FEB.2020 19:23:28

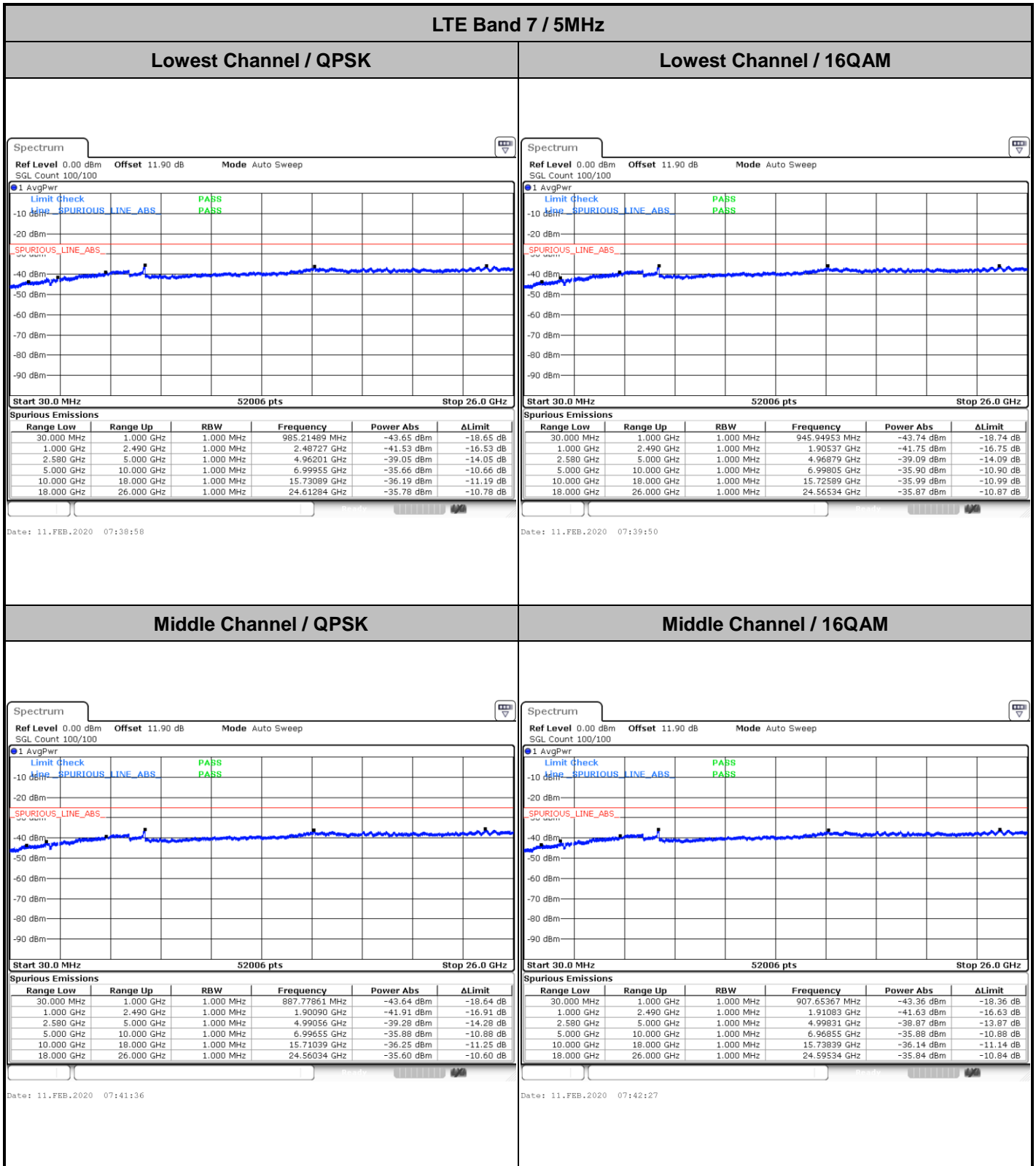
Highest Band Edge / Full RB



Date: 11.FEB.2020 19:28:32



Conducted Spurious Emission

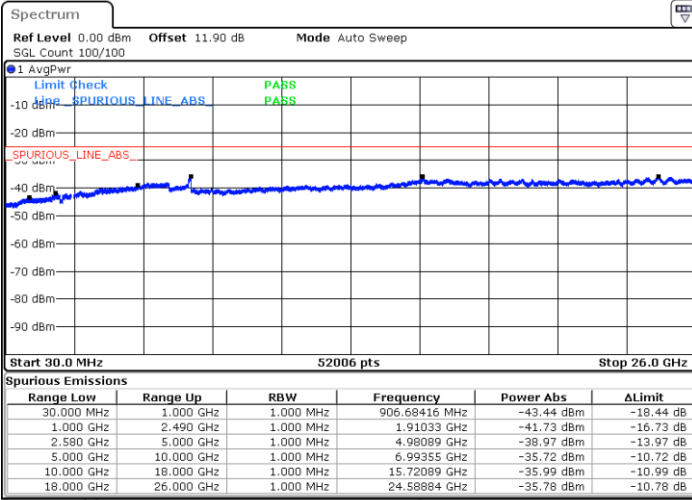




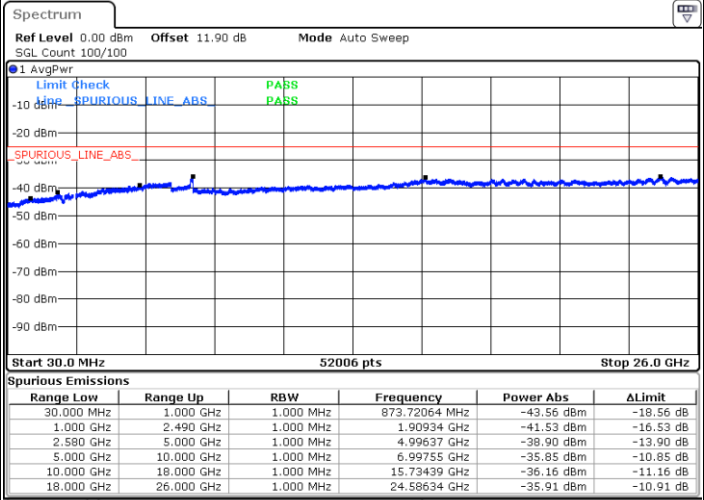
LTE Band 7 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.FEB.2020 07:49:01

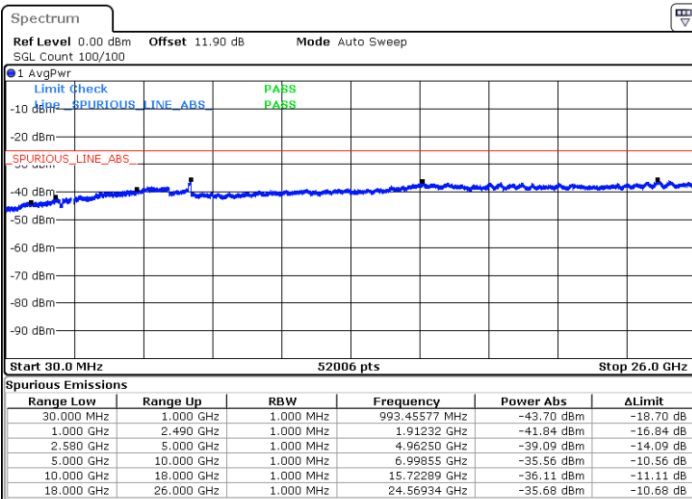


Date: 11.FEB.2020 07:49:54

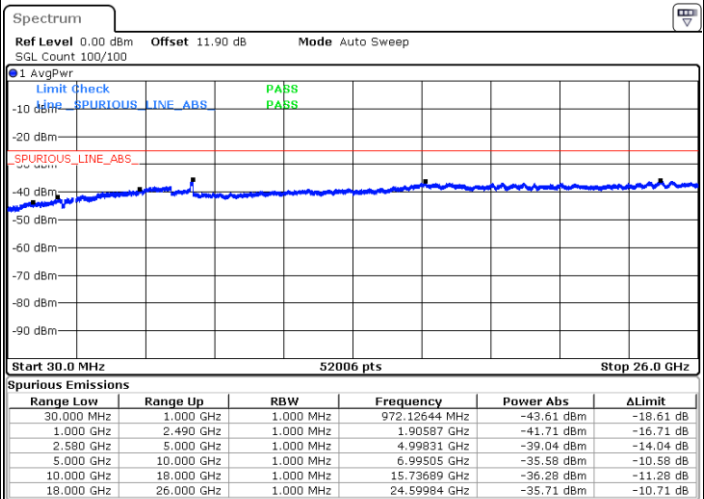
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 11.FEB.2020 08:05:11



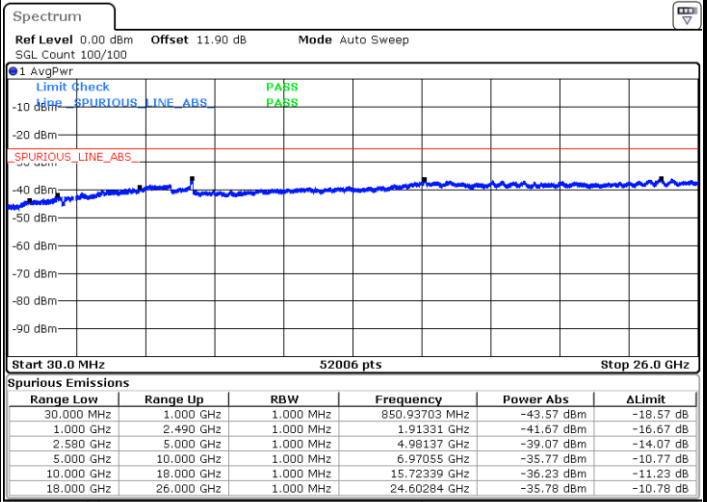
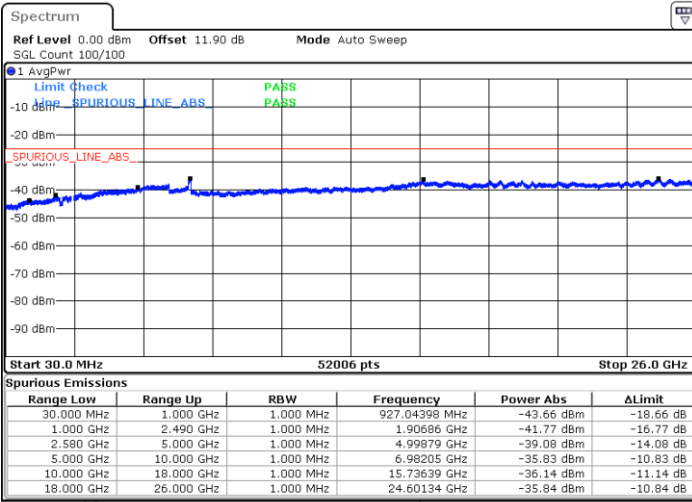
Date: 11.FEB.2020 08:06:03



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

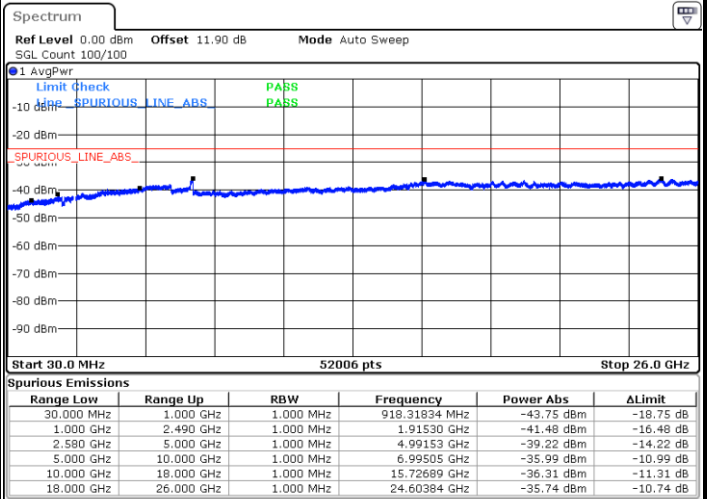
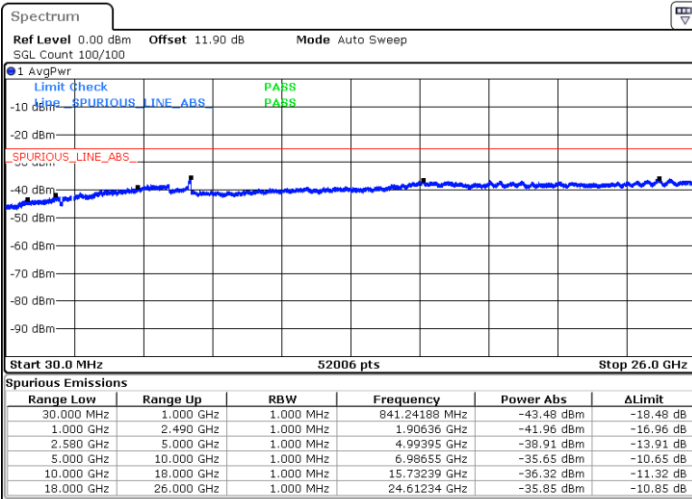


Date: 11.FEB.2020 08:07:48

Date: 11.FEB.2020 08:08:40

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.FEB.2020 08:15:13

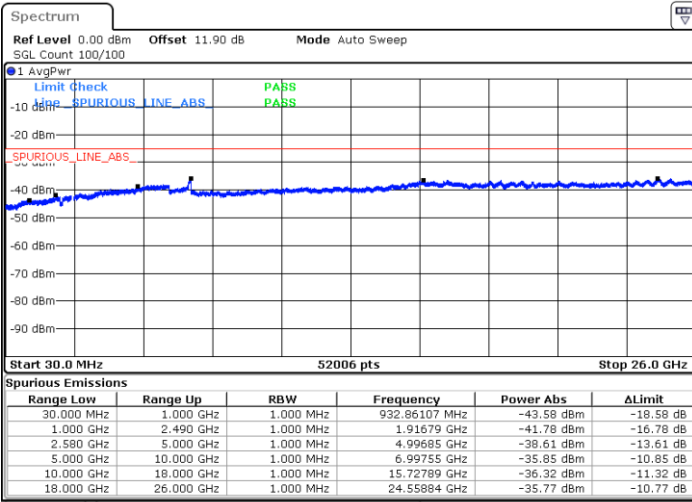
Date: 11.FEB.2020 08:16:05



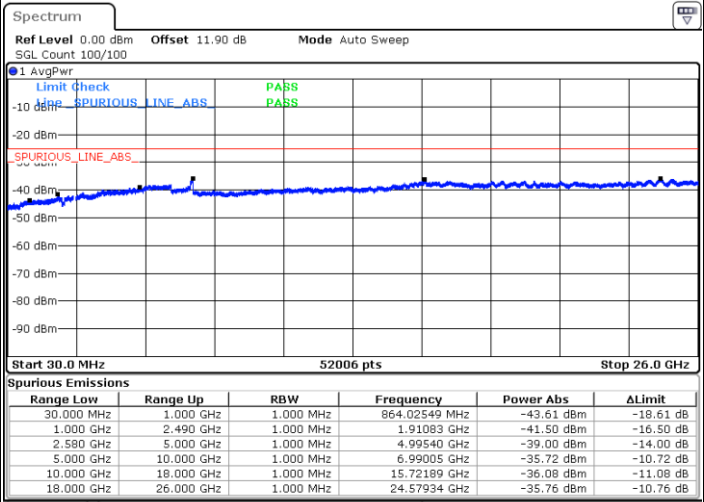
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



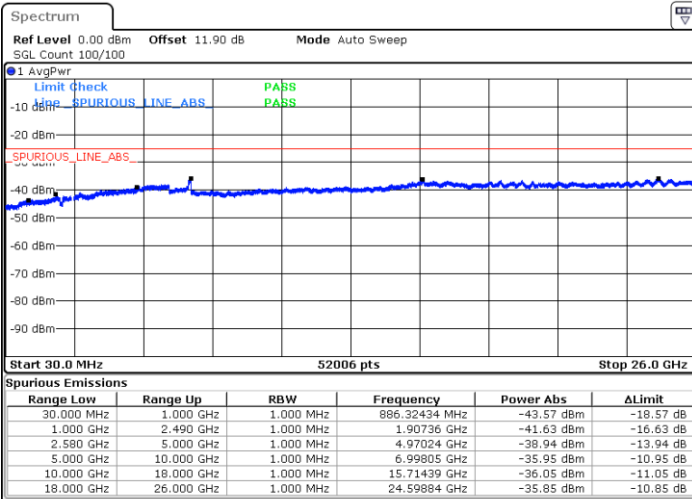
Date: 11.FEB.2020 08:31:23



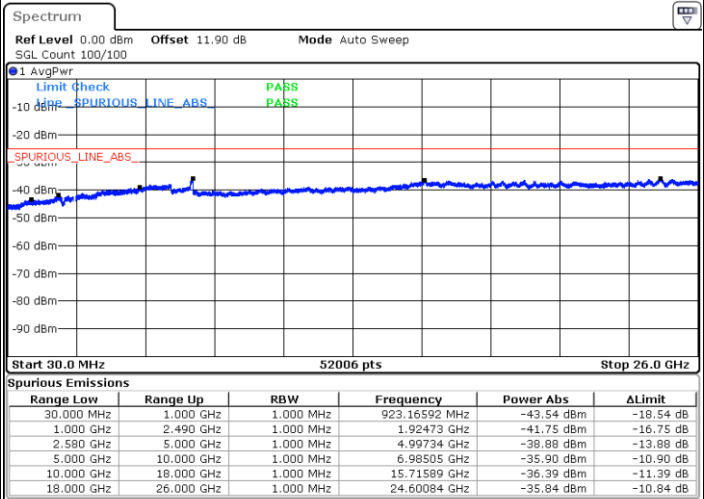
Date: 11.FEB.2020 08:32:16

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 11.FEB.2020 08:34:01



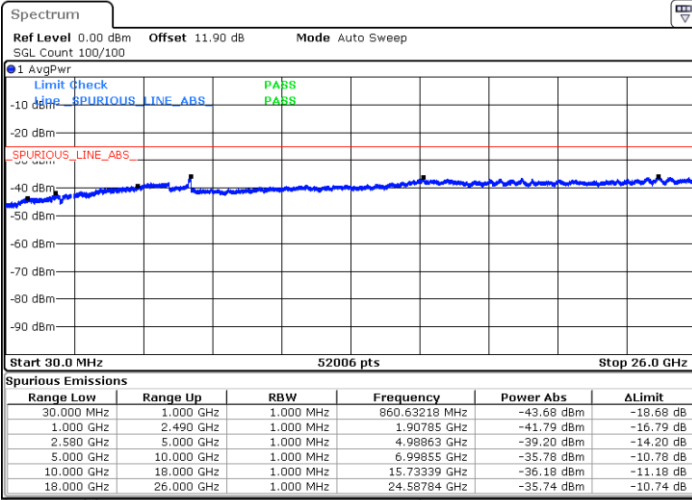
Date: 11.FEB.2020 08:34:53



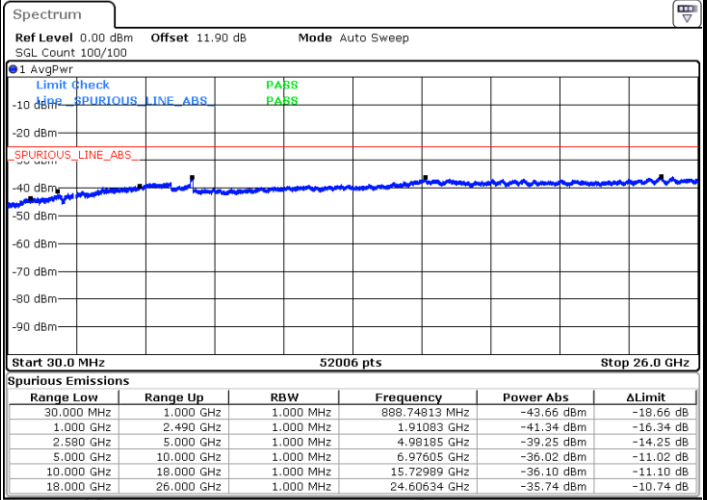
LTE Band7 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.FEB.2020 08:41:26

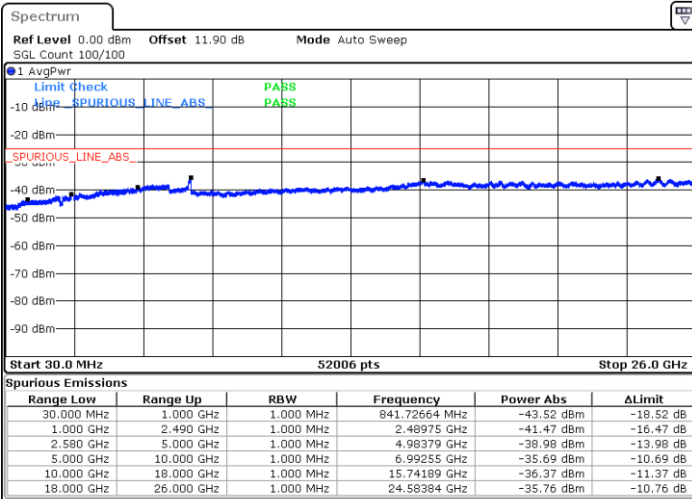


Date: 11.FEB.2020 08:42:18

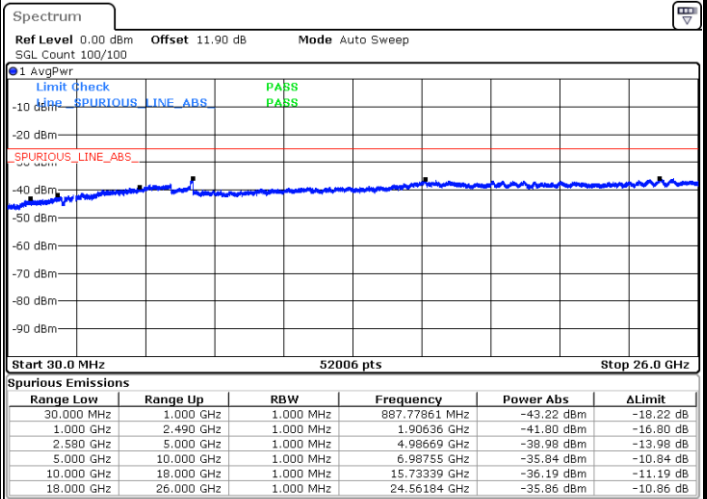
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 11.FEB.2020 19:09:32



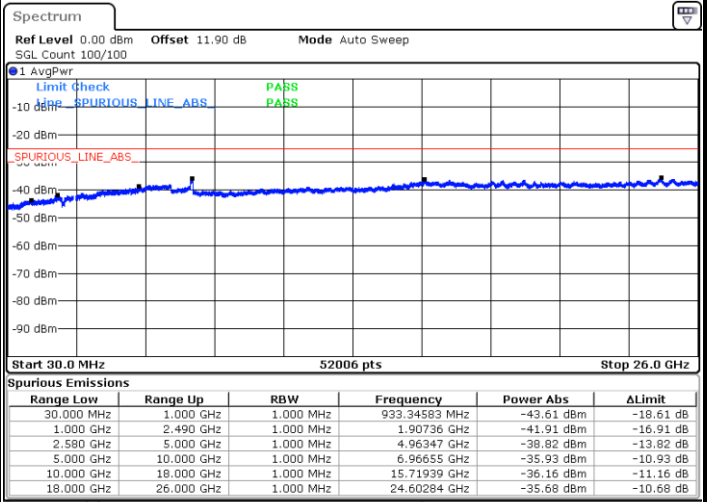
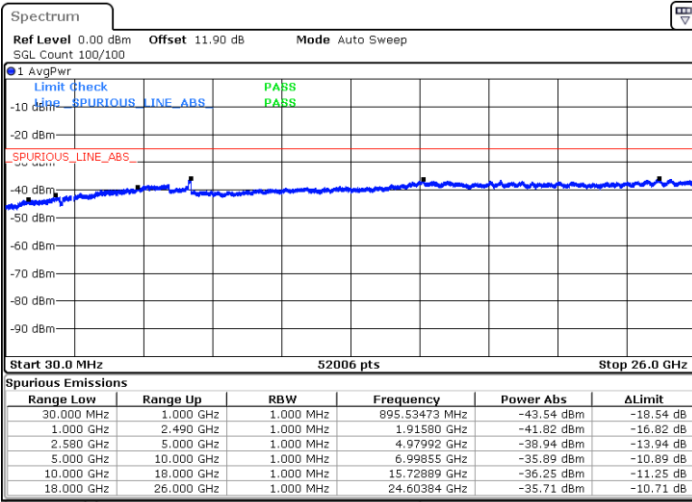
Date: 11.FEB.2020 19:10:25



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

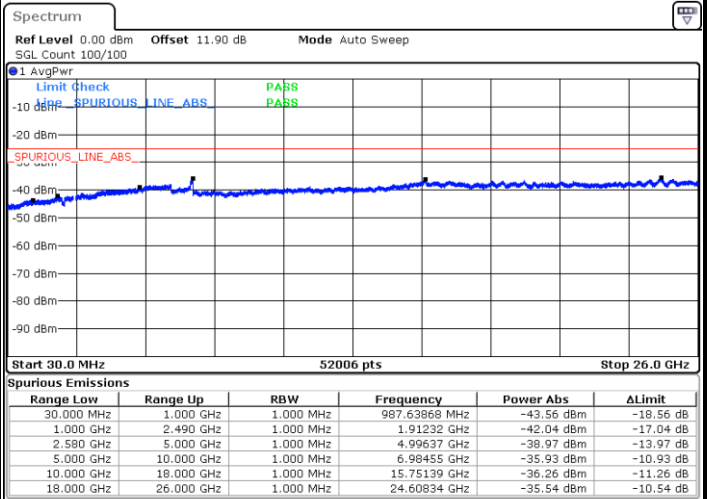
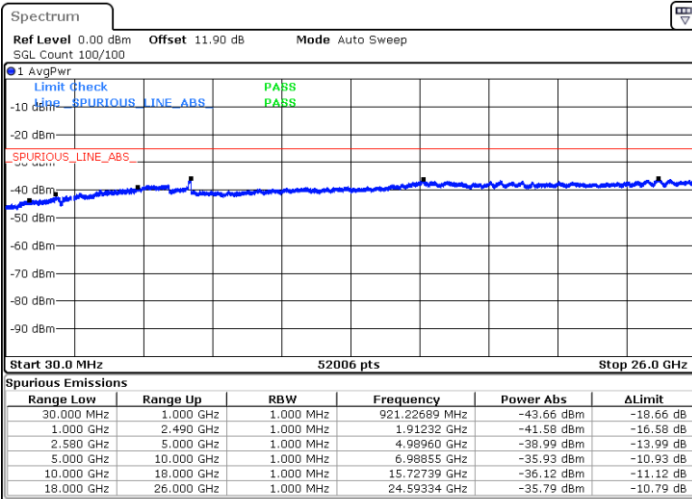


Date: 11.FEB.2020 19:12:12

Date: 11.FEB.2020 19:13:04

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.FEB.2020 19:19:41

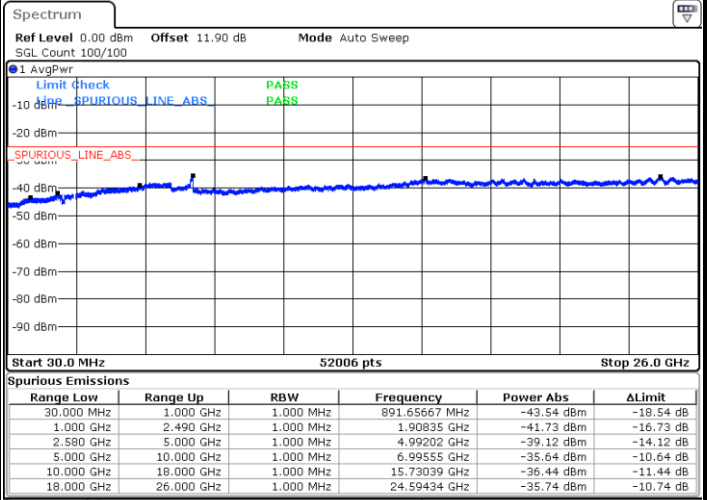
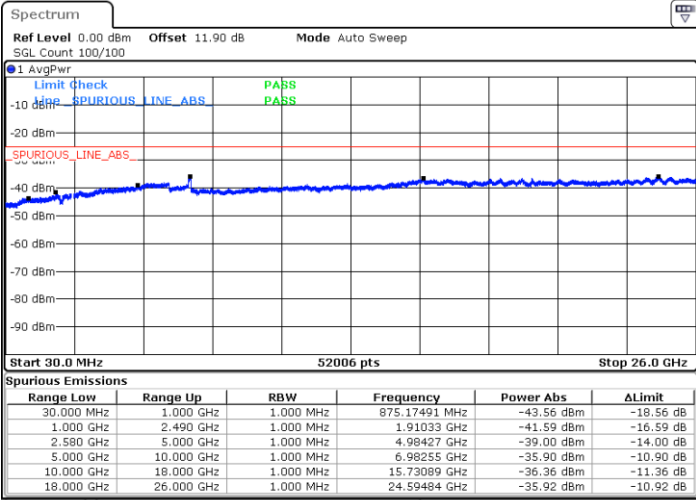
Date: 11.FEB.2020 19:20:34



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

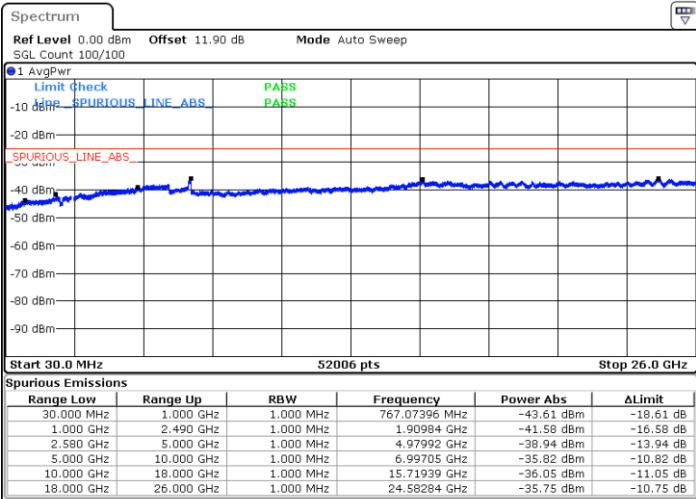
Middle Channel / 64QAM



Date: 11.FEB.2020 07:53:37

Date: 11.FEB.2020 07:54:55

Highest Channel / 64QAM



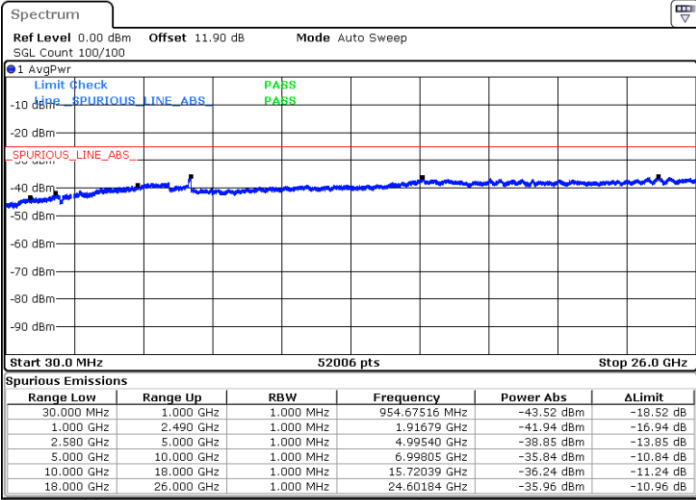
Date: 11.FEB.2020 07:58:37



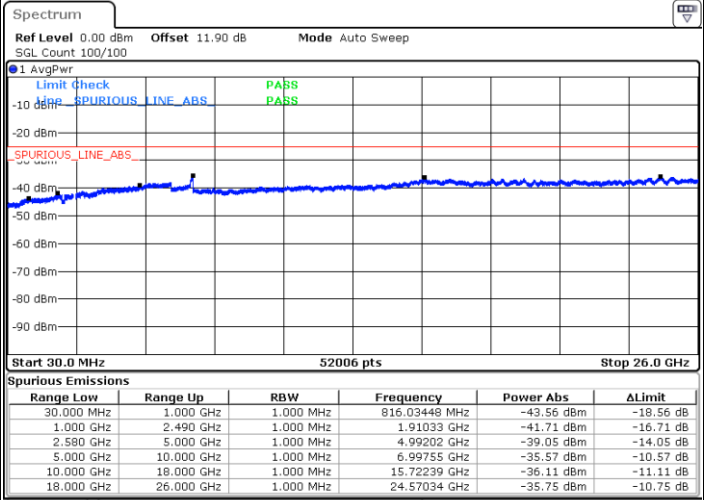
LTE Band 7 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

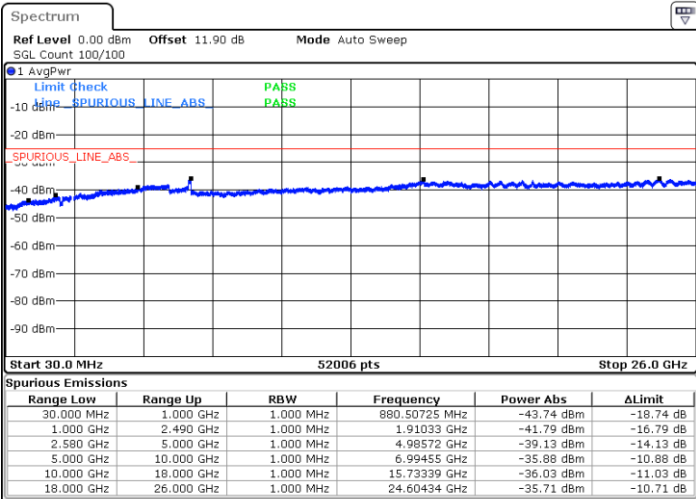


Date: 11.FEB.2020 08:19:48



Date: 11.FEB.2020 08:21:06

Highest Channel / 64QAM



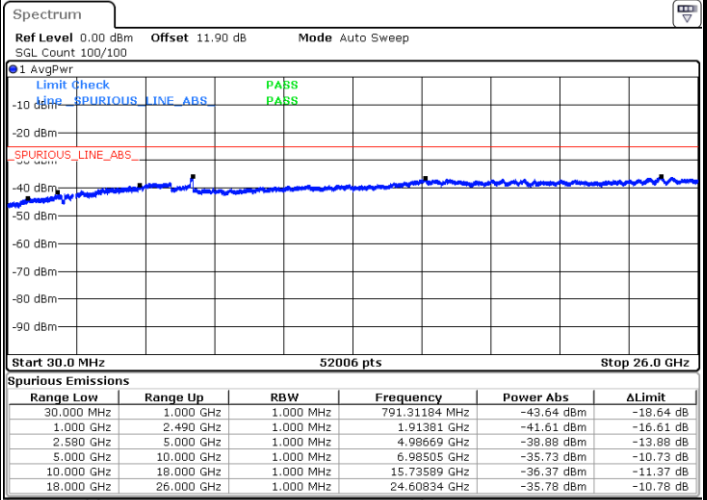
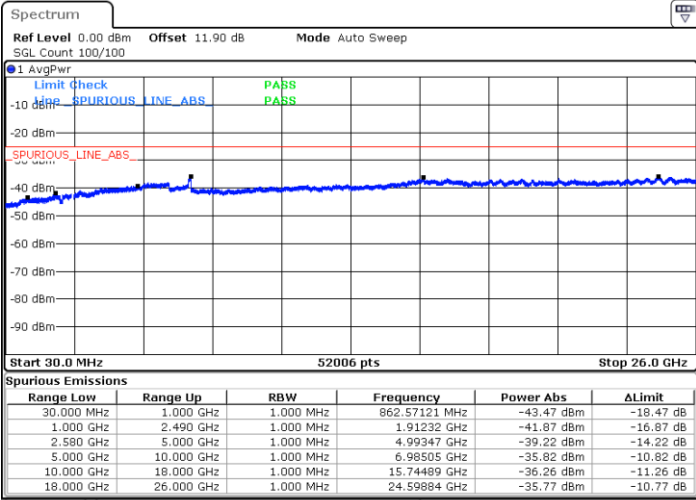
Date: 11.FEB.2020 08:24:48



LTE Band 7 / 15MHz

Lowest Channel / 64QAM

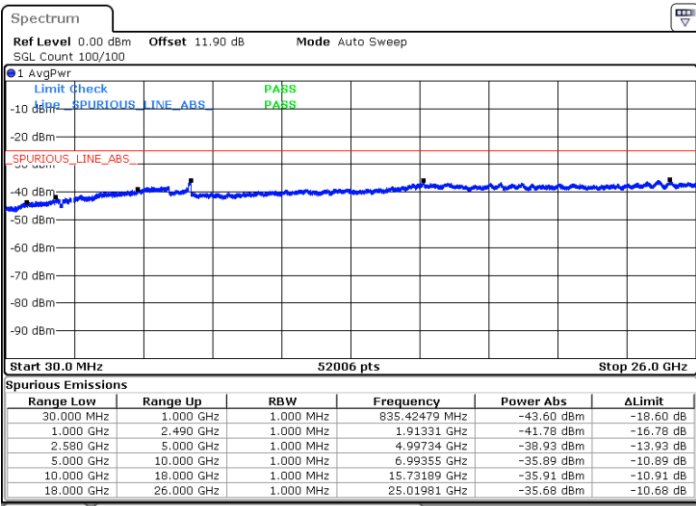
Middle Channel / 64QAM



Date: 11.FEB.2020 08:46:02

Date: 11.FEB.2020 08:47:20

Highest Channel / 64QAM



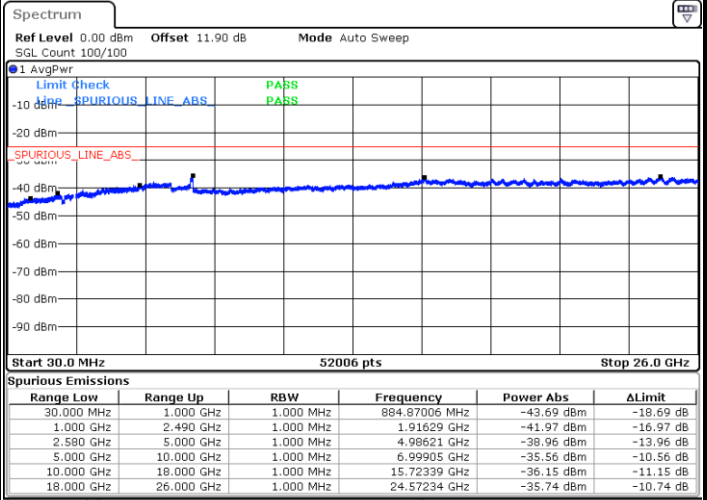
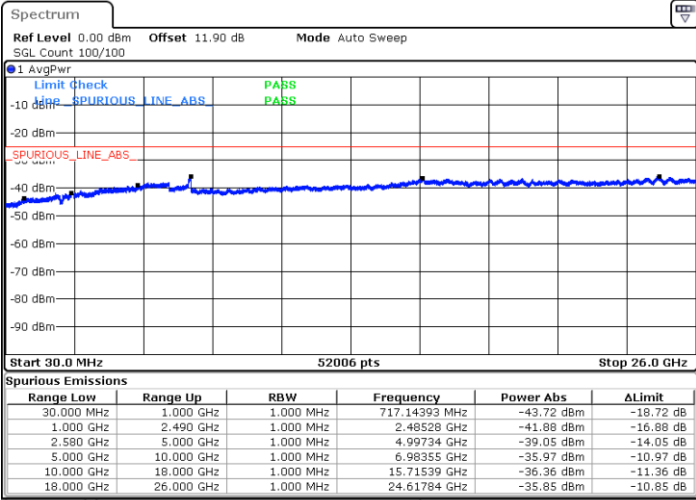
Date: 11.FEB.2020 08:51:02



LTE Band 7 / 20MHz

Lowest Channel / 64QAM

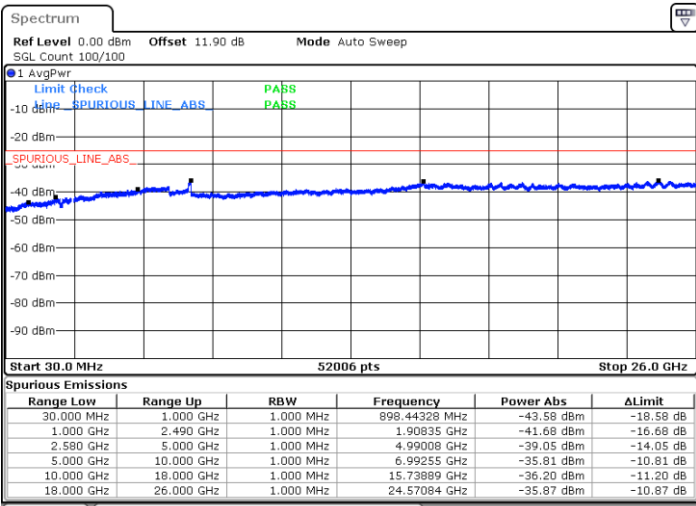
Middle Channel / 64QAM



Date: 11.FEB.2020 19:24:20

Date: 11.FEB.2020 19:25:39

Highest Channel / 64QAM



Date: 11.FEB.2020 19:29:24



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	0.0073	PASS
40	Normal Voltage	0.0081	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0092	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0089	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

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



LTE Band 7CA

26dB Bandwidth

Mode	LTE Band 7CA : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.85	25.18	30.63	34.83
Middle CH	29.85	25.28	30.51	34.76
Highest CH	29.85	25.13	30.45	34.62
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	34.76	39.88	-
Middle CH	29.97	35.04	39.80	-
Highest CH	29.91	34.90	39.88	-

Mode	LTE Band 7CA : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.67	25.33	30.45	34.83
Middle CH	29.85	25.18	30.45	35.04
Highest CH	29.73	25.38	30.57	34.69
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	35.11	39.80	-
Middle CH	30.15	34.90	39.80	-
Highest CH	30.15	34.83	39.72	-

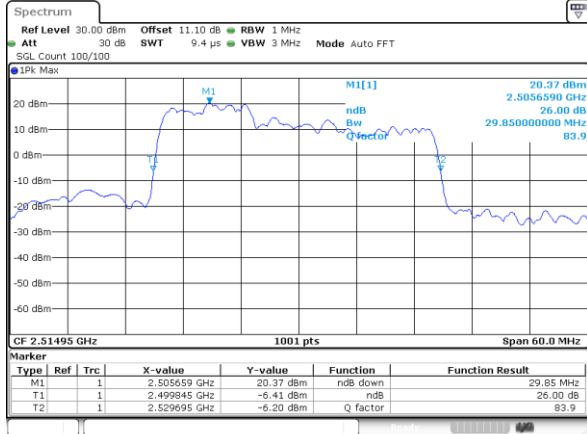
Mode	LTE Band 7CA : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.79	25.23	30.45	34.69
Middle CH	29.79	25.18	30.57	34.69
Highest CH	29.85	25.28	30.39	34.69
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	34.69	39.88	-
Middle CH	30.21	34.90	39.72	-
Highest CH	29.91	34.90	39.72	-



LTE Band 7CA

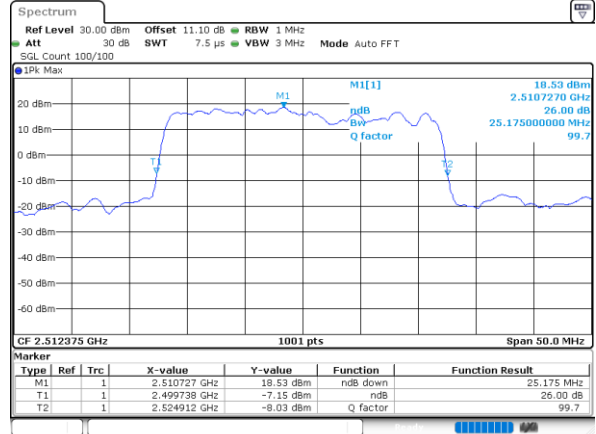
QPSK

Lowest Channel / 10MHz+20MHz



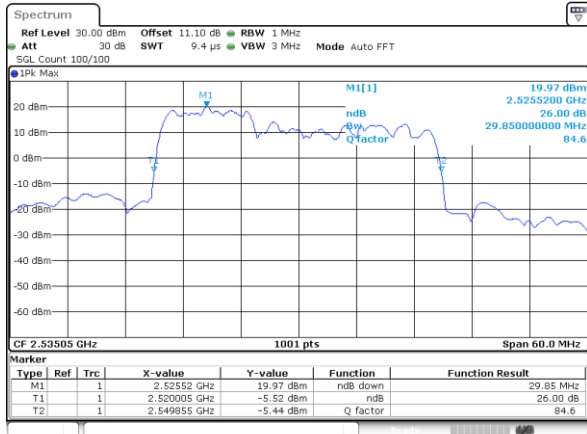
Date: 23_MAR_2020 15:00:27

Lowest Channel / 15MHz+10MHz



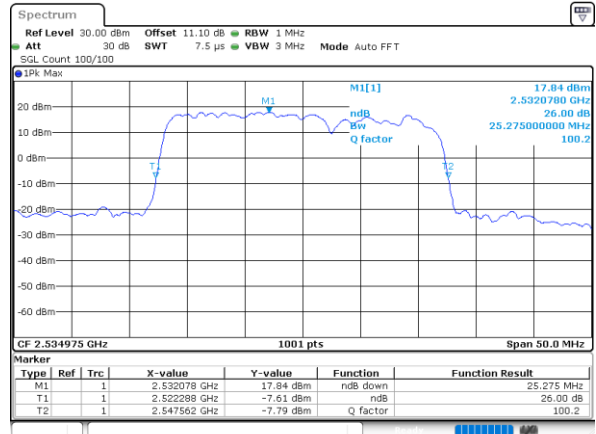
Date: 23_MAR_2020 17:28:41

Middle Channel / 10MHz+20MHz



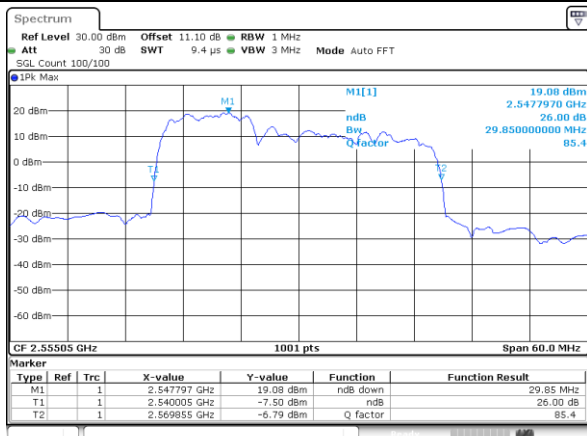
Date: 23_MAR_2020 15:59:43

Middle Channel / 15MHz+10MHz



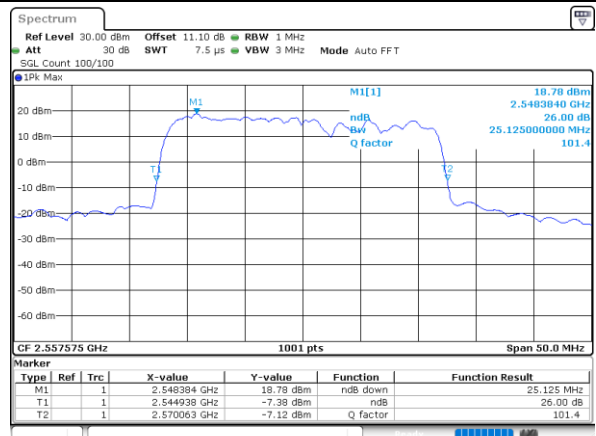
Date: 23_MAR_2020 17:47:21

Highest Channel / 10MHz+20MHz



Date: 23_MAR_2020 15:27:52

Highest Channel / 15MHz+10MHz



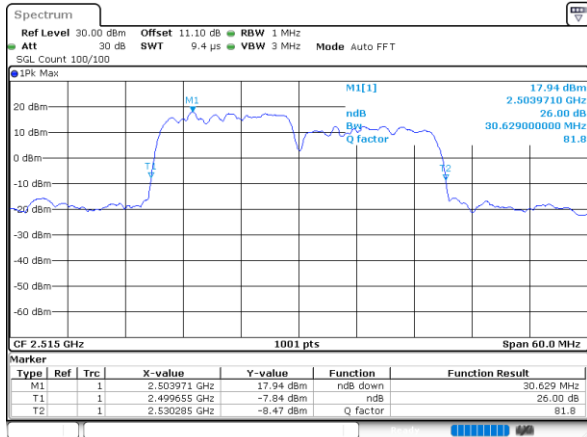
Date: 23_MAR_2020 18:00:54



LTE Band 7CA

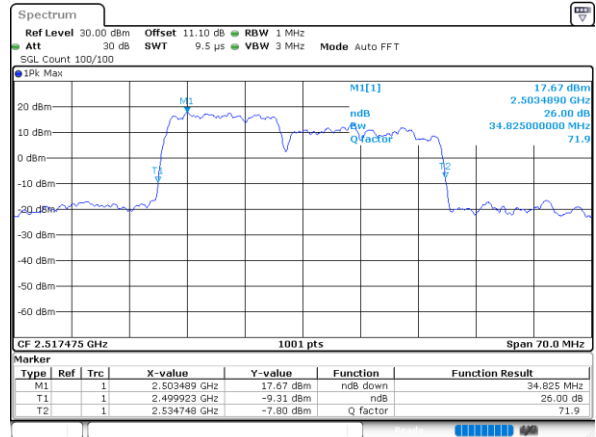
QPSK

Lowest Channel / 15MHz+15MHz



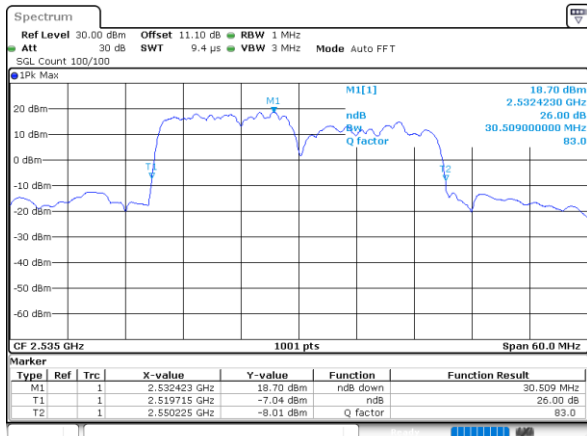
Date: 23_MAR_2020 13:08:35

Lowest Channel / 15MHz+20MHz



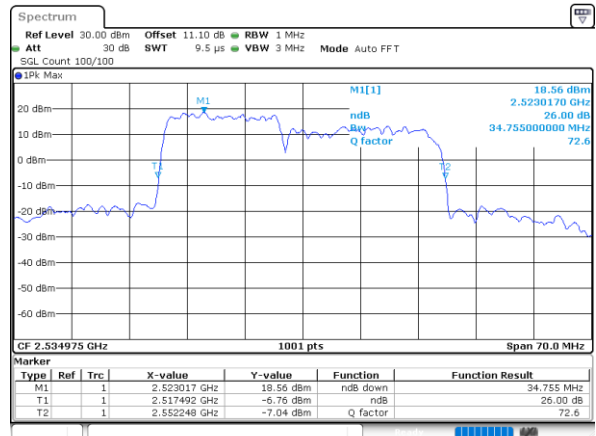
Date: 23_MAR_2020 13:10:35

Middle Channel / 15MHz+15MHz



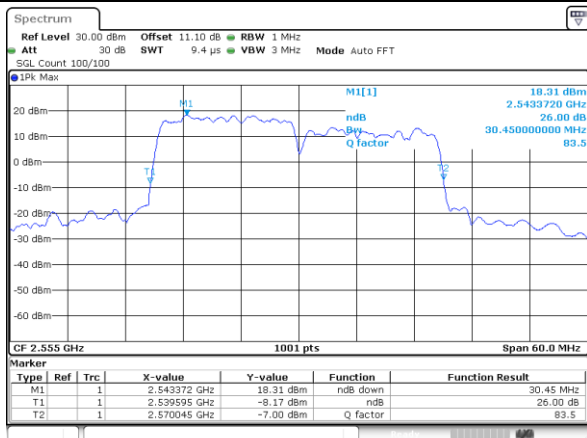
Date: 23_MAR_2020 12:46:54

Middle Channel / 15MHz+20MHz



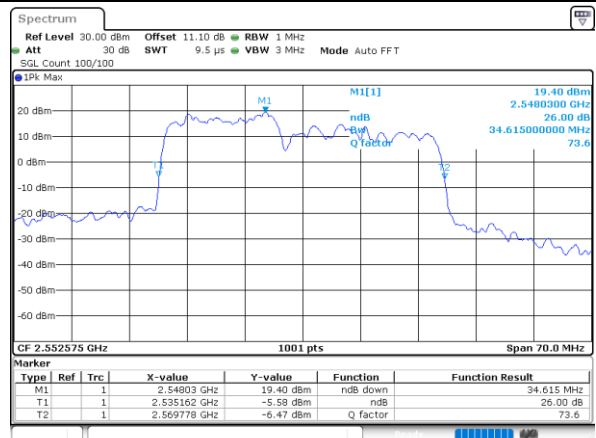
Date: 23_MAR_2020 13:15:00

Highest Channel / 15MHz+15MHz



Date: 23_MAR_2020 18:19:48

Highest Channel / 15MHz+20MHz



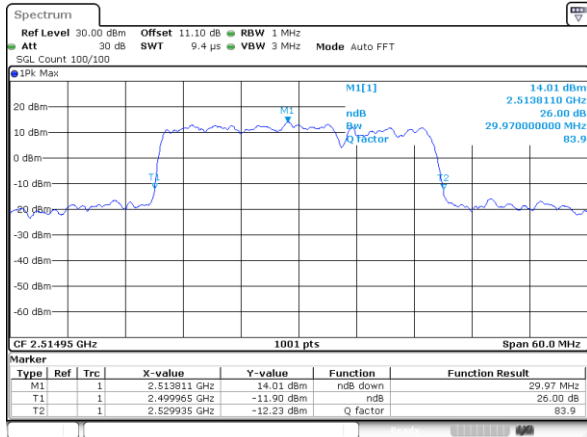
Date: 23_MAR_2020 14:18:36



LTE Band 7CA

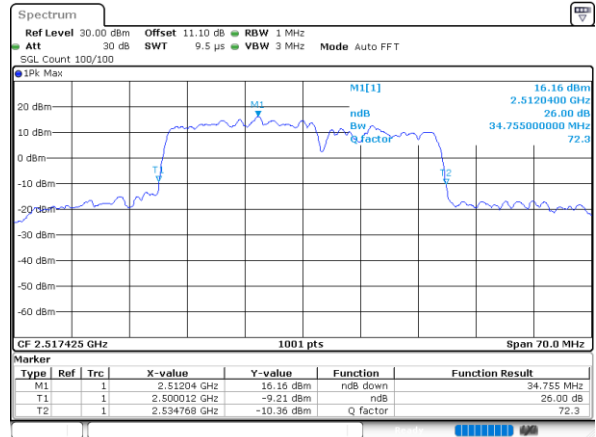
QPSK

Lowest Channel / 20MHz+10MHz



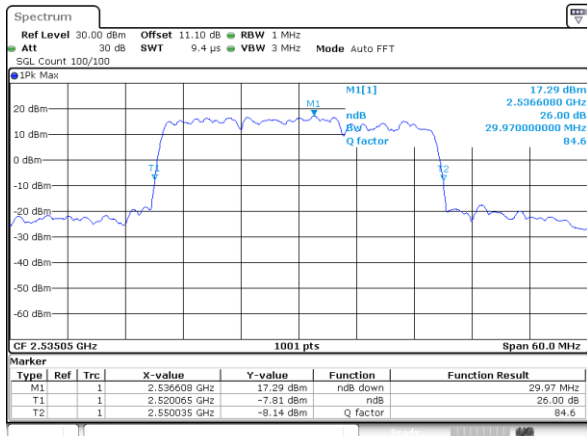
Date: 23.MAR.2020 16:26:29

Lowest Channel / 20MHz+15MHz



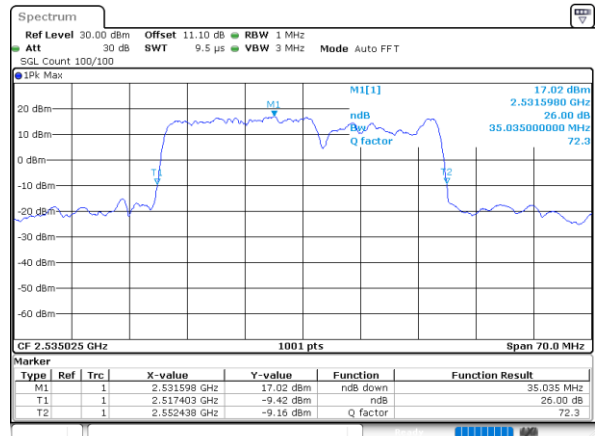
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Middle Channel / 20MHz+10MHz



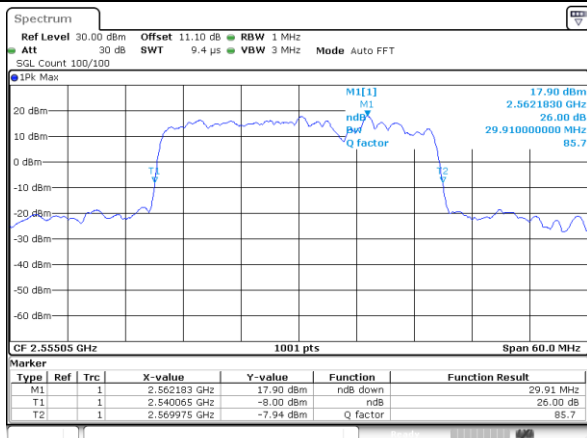
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Middle Channel / 20MHz+15MHz



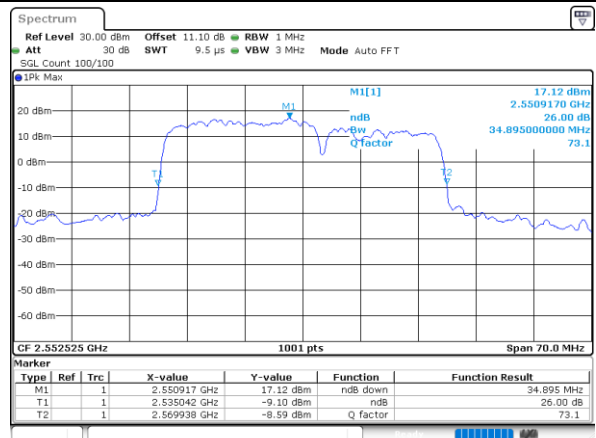
Date: 23.MAR.2020 15:05:36

Highest Channel / 20MHz+10MHz



Date: 23.MAR.2020 16:53:39

Highest Channel / 20MHz+15MHz



Date: 23.MAR.2020 15:17:10

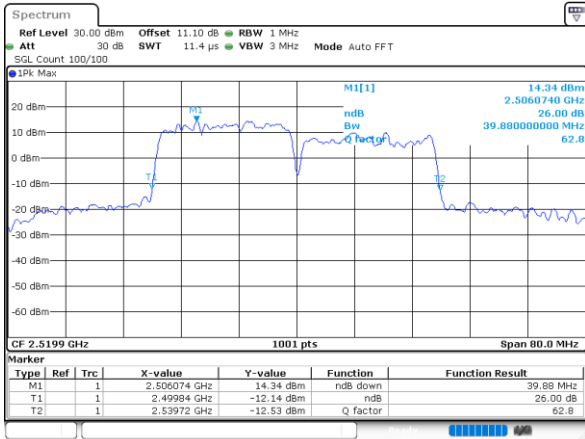


LTE Band 7CA

QPSK

Lowest Channel / 20MHz+20MHz

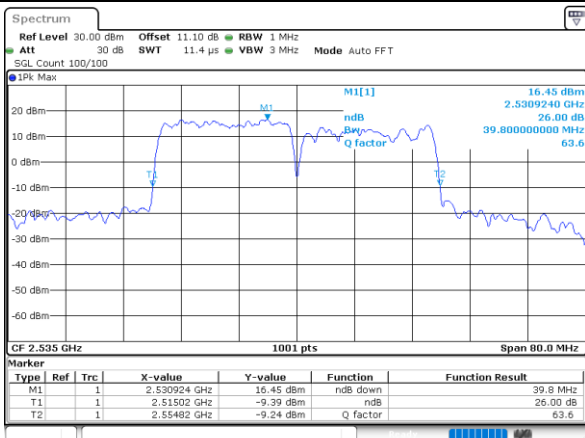
N/A



Date: 23_MAR_2020 15:40:11

Middle Channel / 20MHz+20MHz

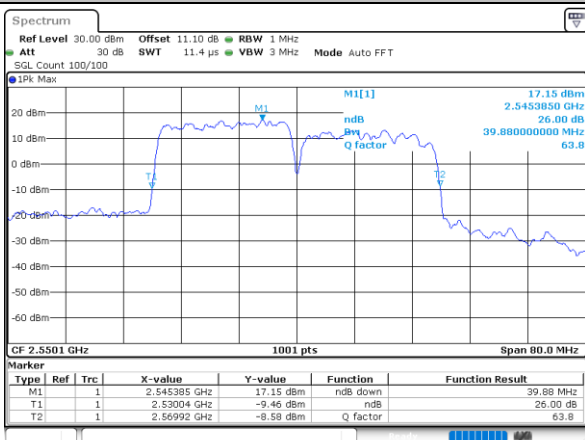
N/A



Date: 23_MAR_2020 16:03:00

Highest Channel / 20MHz+20MHz

N/A



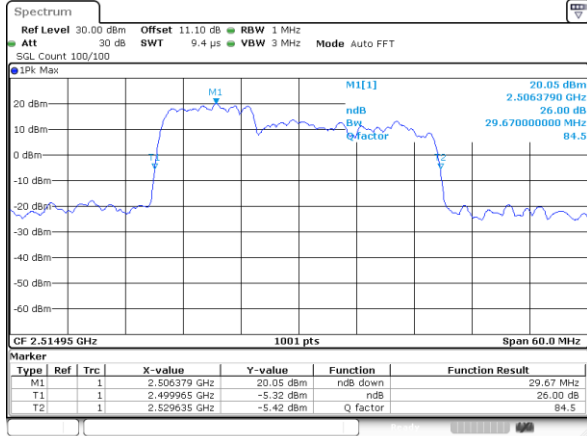
Date: 23_MAR_2020 16:22:18



LTE Band 7CA

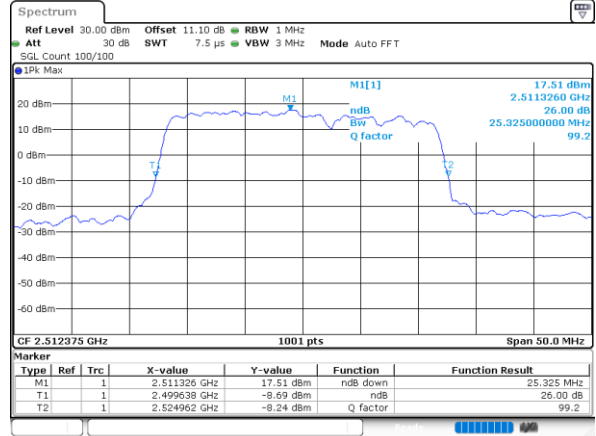
16QAM

Lowest Channel / 10MHz+20MHz



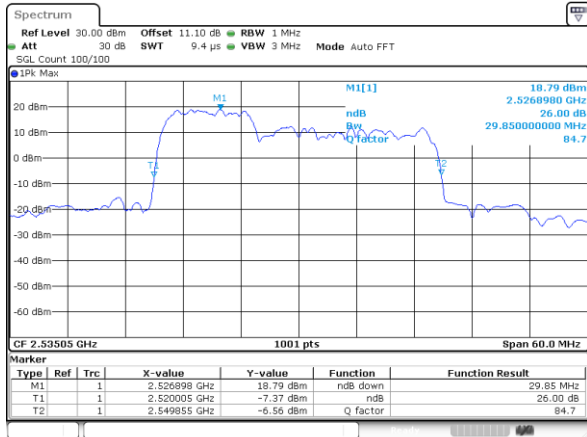
Date: 23.MAR.2020 15:00:07

Lowest Channel / 15MHz+10MHz



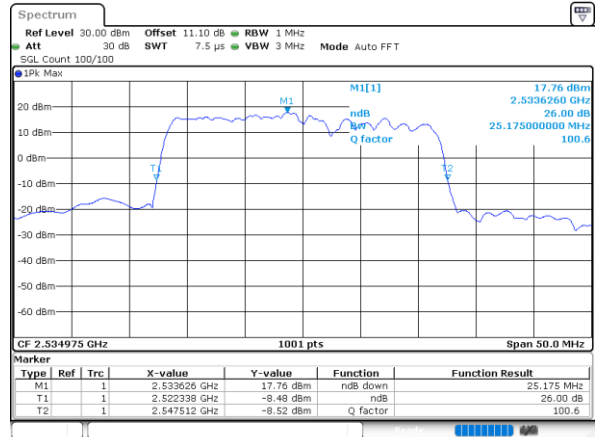
Date: 23.MAR.2020 17:28:21

Middle Channel / 10MHz+20MHz



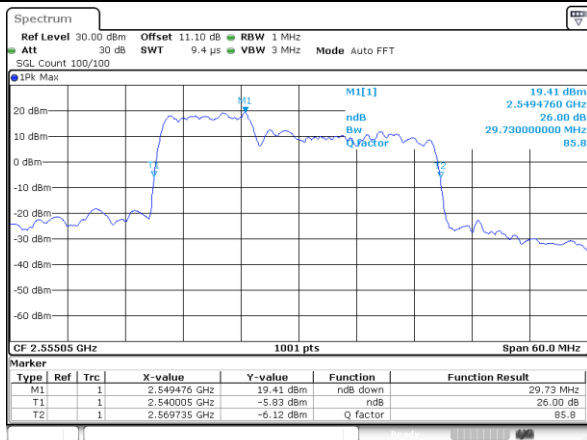
Date: 23.MAR.2020 15:59:24

Middle Channel / 15MHz+10MHz



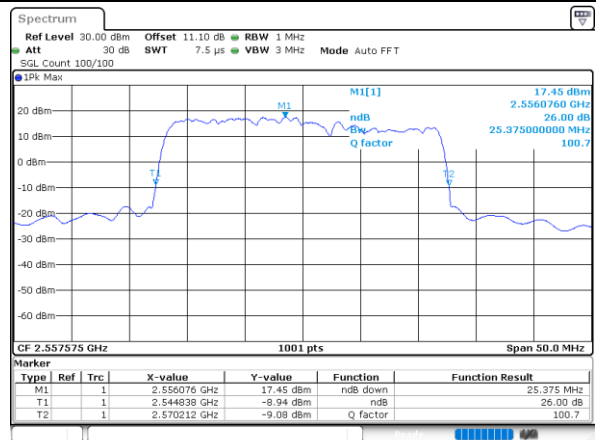
Date: 23.MAR.2020 17:47:01

Highest Channel / 10MHz+20MHz



Date: 23.MAR.2020 15:28:11

Highest Channel / 15MHz+10MHz



Date: 23.MAR.2020 18:01:14