

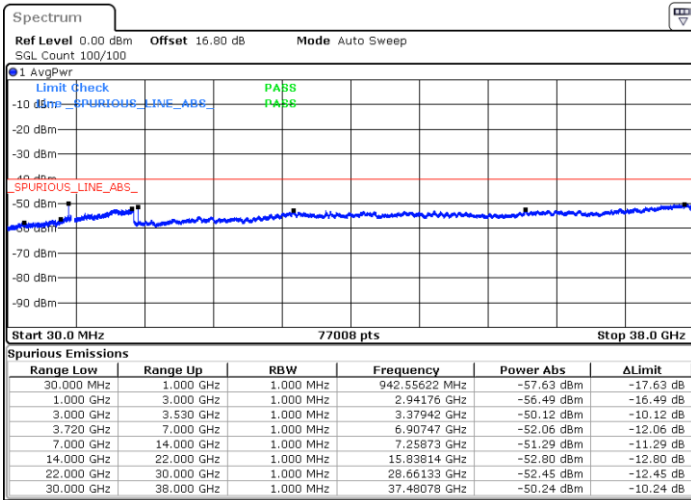


LTE Band 48 / 10MHz

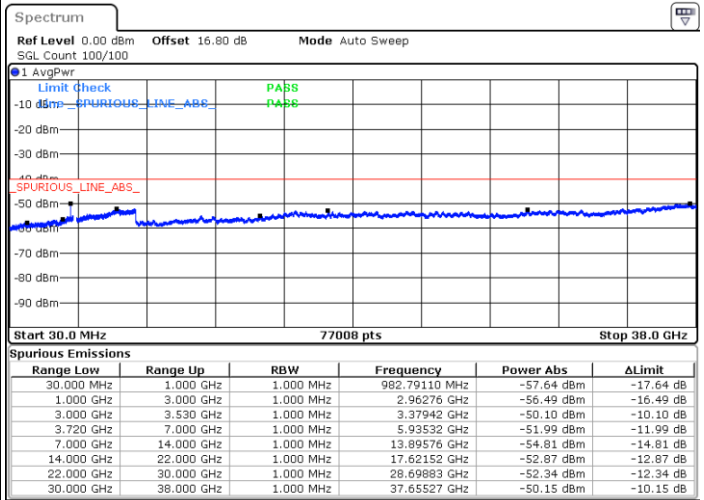
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



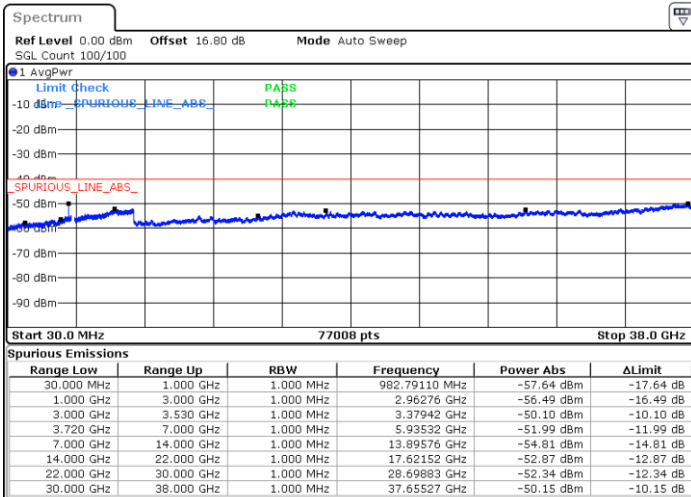
Date: 4.JUL.2020 22:57:44



Date: 4.JUL.2020 22:48:05

Middle Channel / FullIRB

N/A



Date: 4.JUL.2020 22:48:05

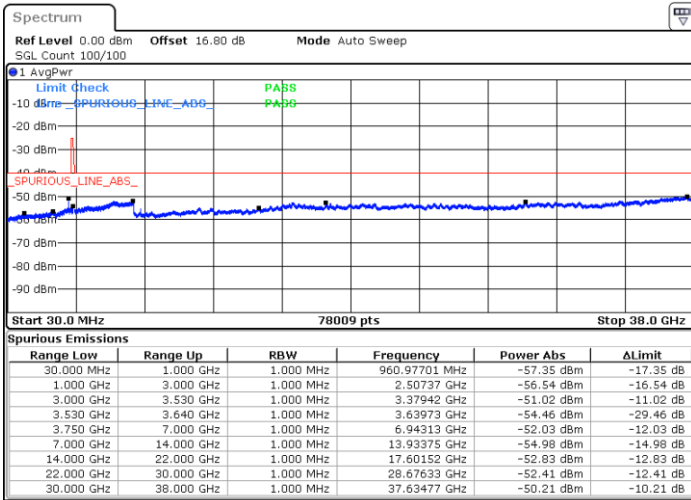


LTE Band 48 / 10MHz

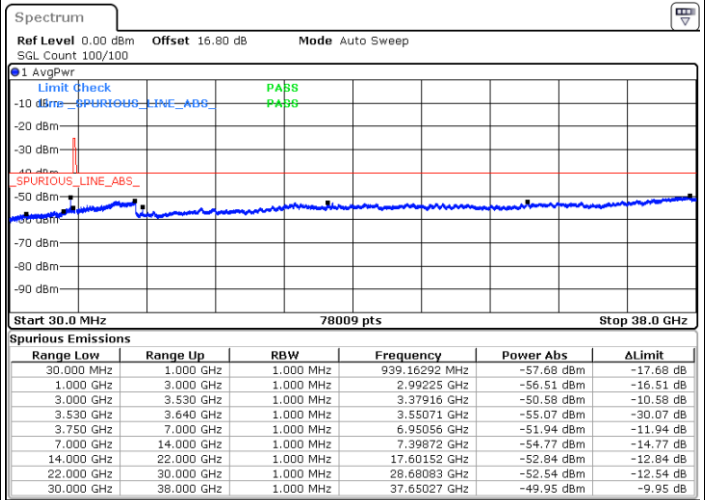
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



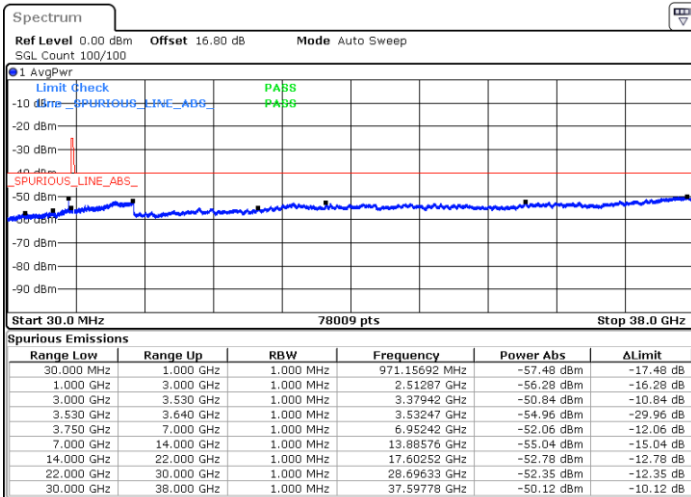
Date: 4.JUL.2020 22:39:29



Date: 4.JUL.2020 22:58:49

Highest Channel / FullIRB

N/A



Date: 4.JUL.2020 22:49:09

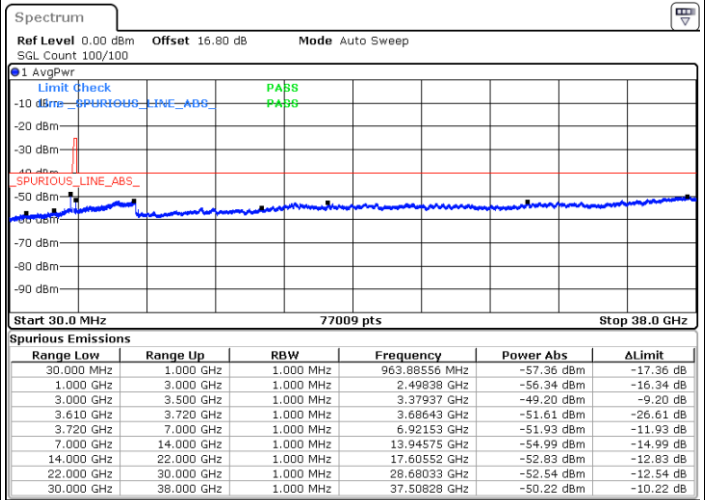
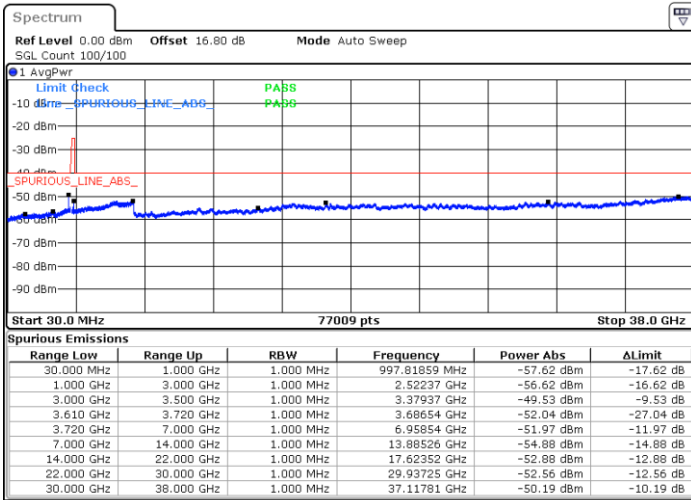


LTE Band 48 / 15MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

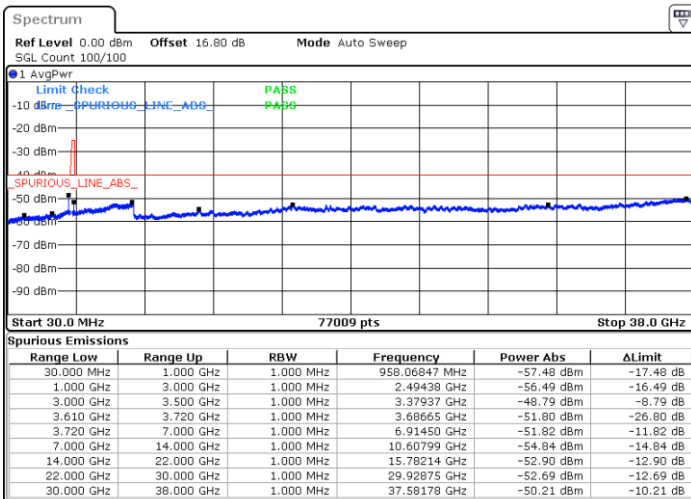


Date: 4.JUL.2020 23:46:41

Date: 5.JUL.2020 00:06:00

Lowest Channel / FullIRB

N/A



Date: 4.JUL.2020 23:56:20

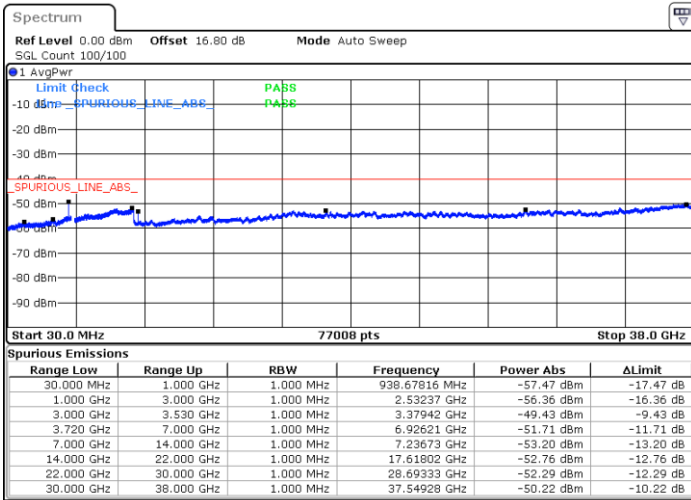


LTE Band 48 / 15MHz

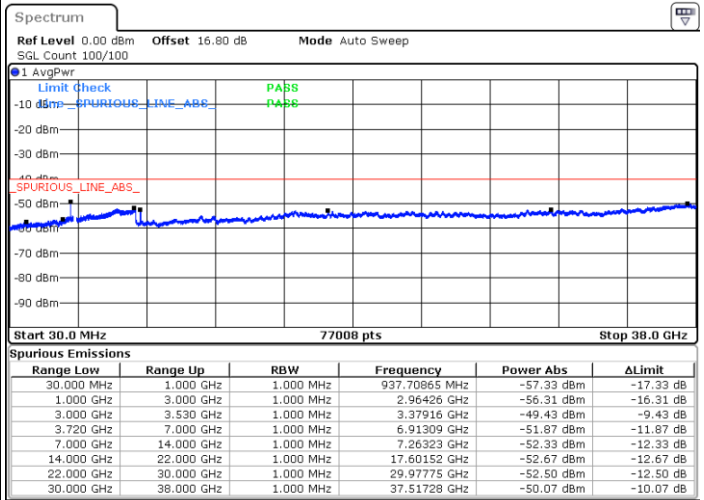
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



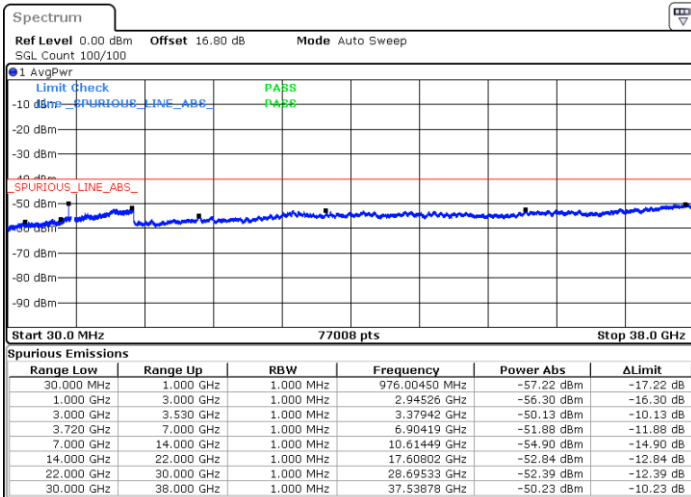
Date: 4. JUL. 2020 23:47:45



Date: 5. JUL. 2020 00:07:05

Middle Channel / FullIRB

N/A



Date: 4. JUL. 2020 23:57:24

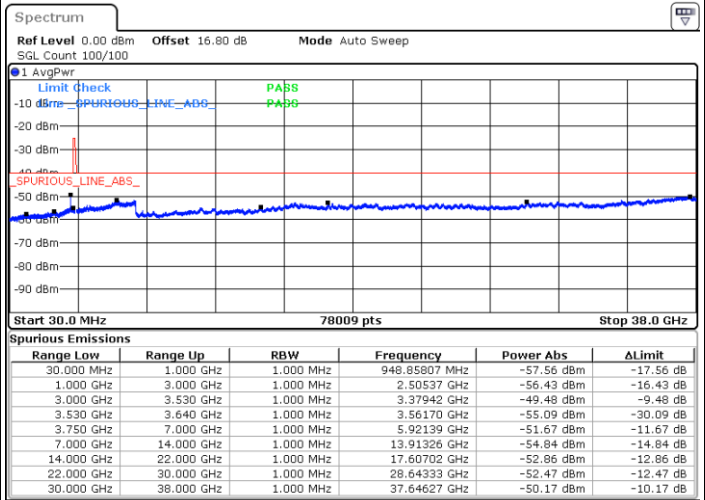
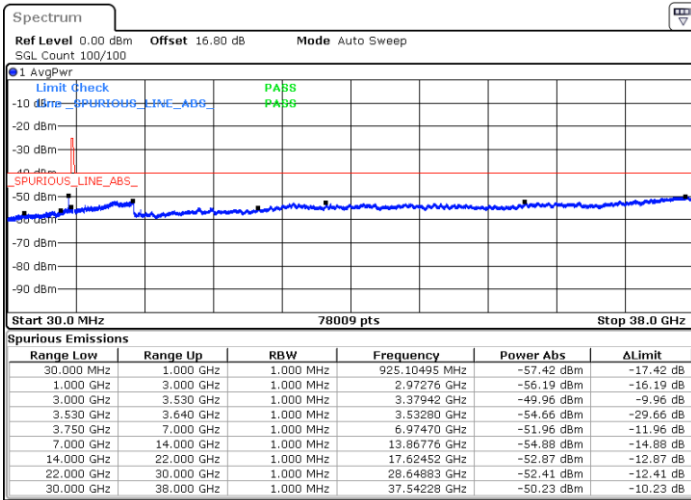


LTE Band 48 / 15MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

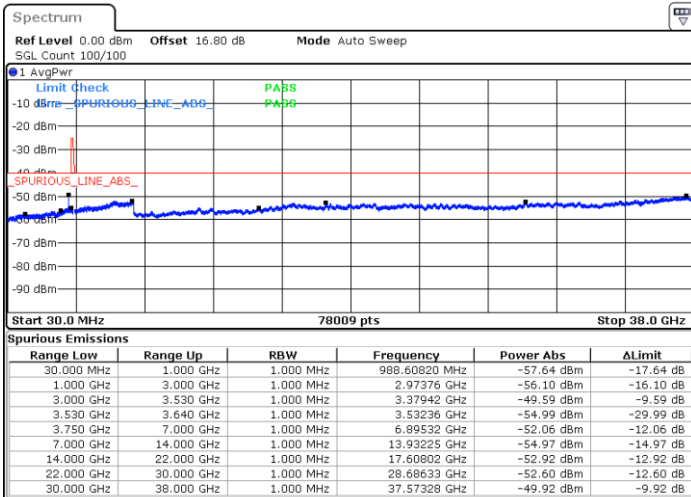


Date: 4.JUL.2020 23:53:06

Date: 5.JUL.2020 00:12:26

Highest Channel / FullIRB

N/A



Date: 5.JUL.2020 00:02:47

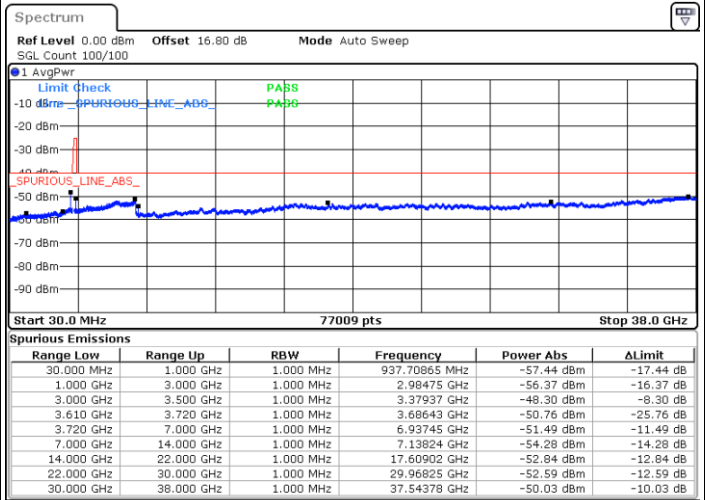
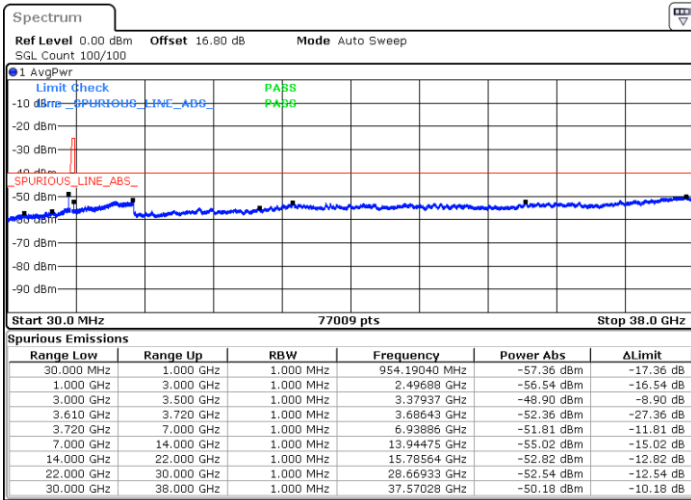


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

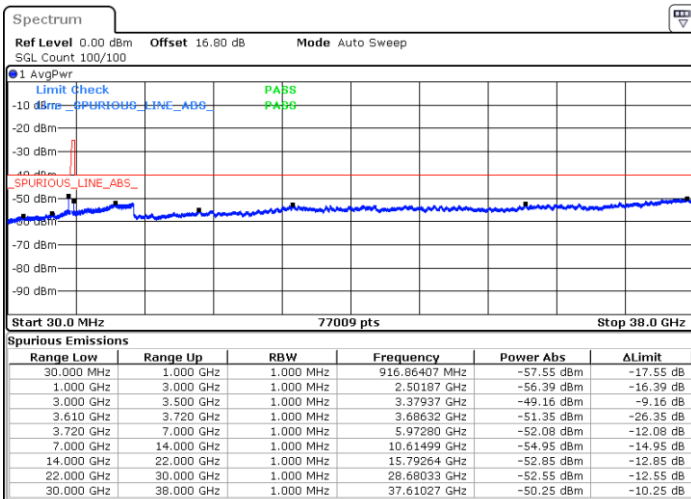


Date: 5.JUL.2020 00:24:34

Date: 5.JUL.2020 10:30:36

Lowest Channel / FullIRB

N/A



Date: 5.JUL.2020 00:14:54

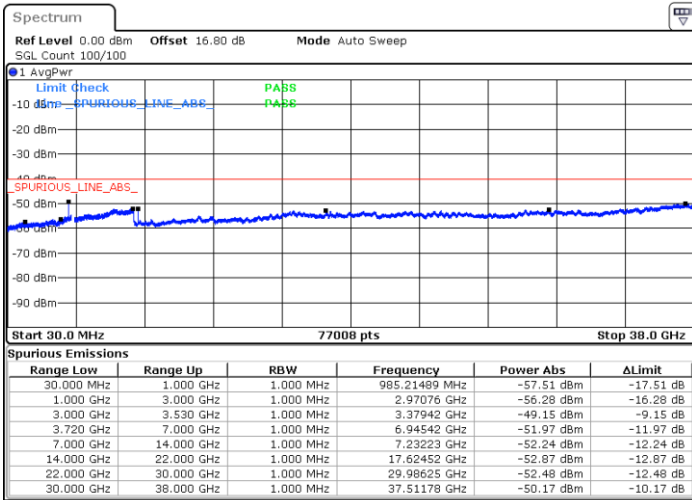


LTE Band 48 / 20MHz

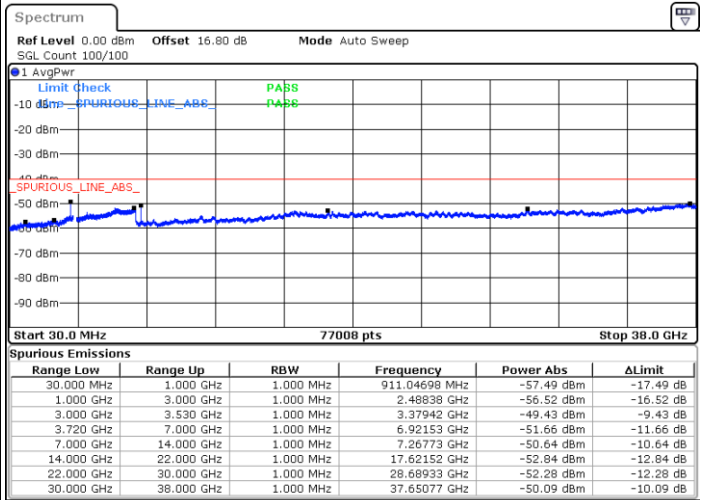
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



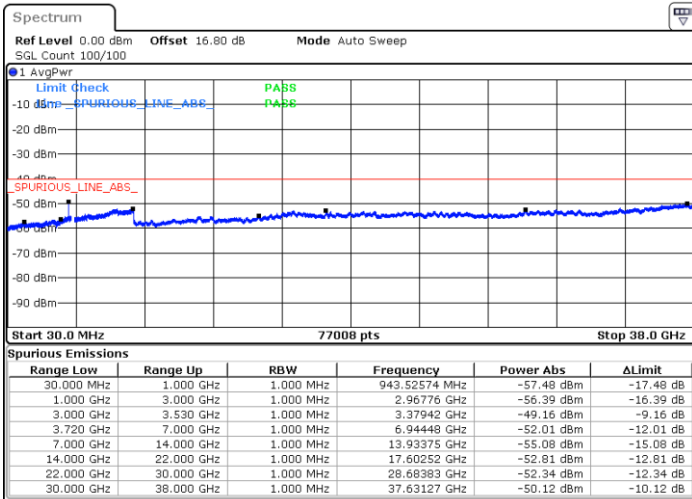
Date: 5.JUL.2020 00:29:55



Date: 5.JUL.2020 10:35:57

Middle Channel / FullIRB

N/A



Date: 5.JUL.2020 00:20:15

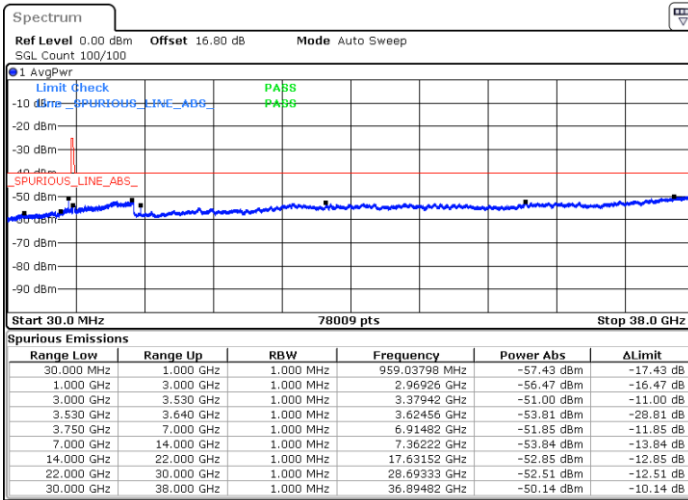


LTE Band 48 / 20MHz

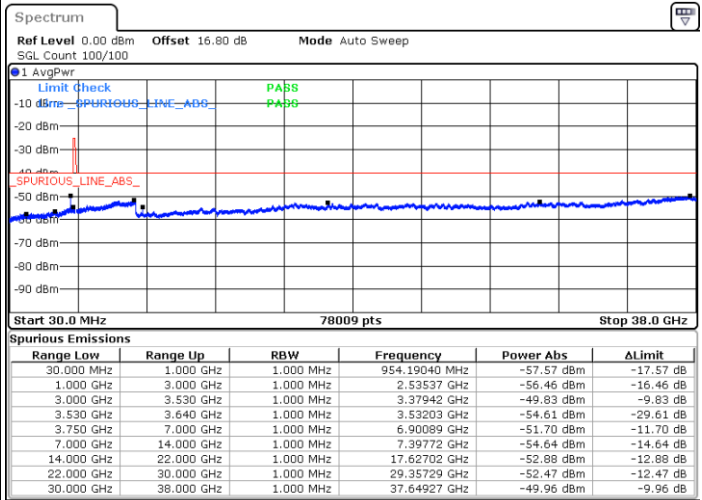
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



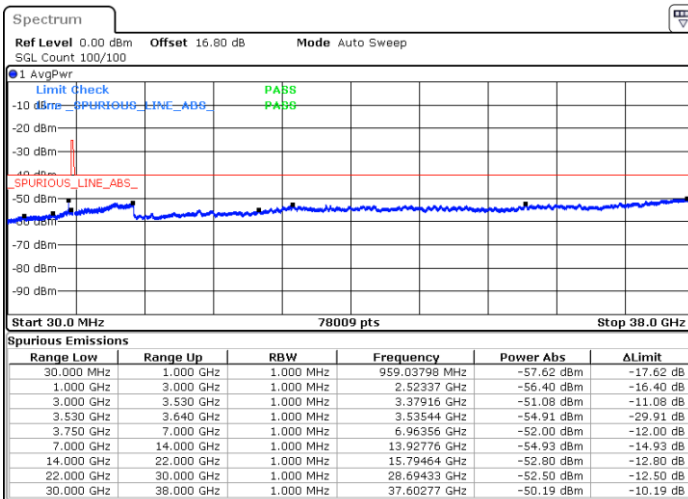
Date: 5.JUL.2020 00:30:59



Date: 5.JUL.2020 10:37:02

Highest Channel / FullIRB

N/A



Date: 5.JUL.2020 00:21:20



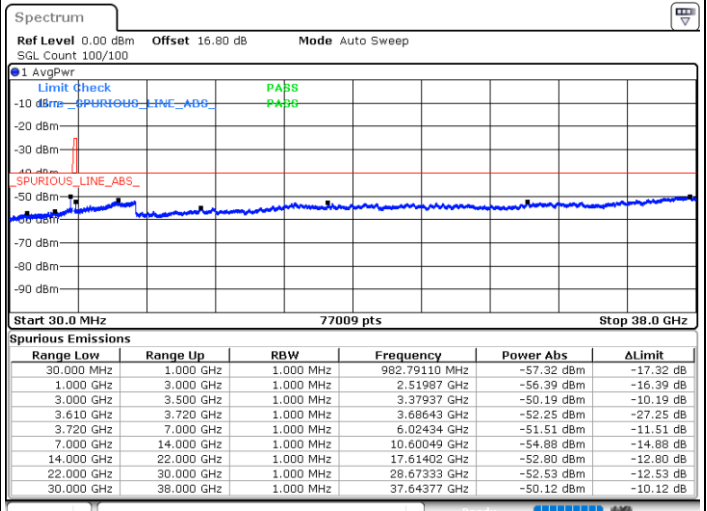
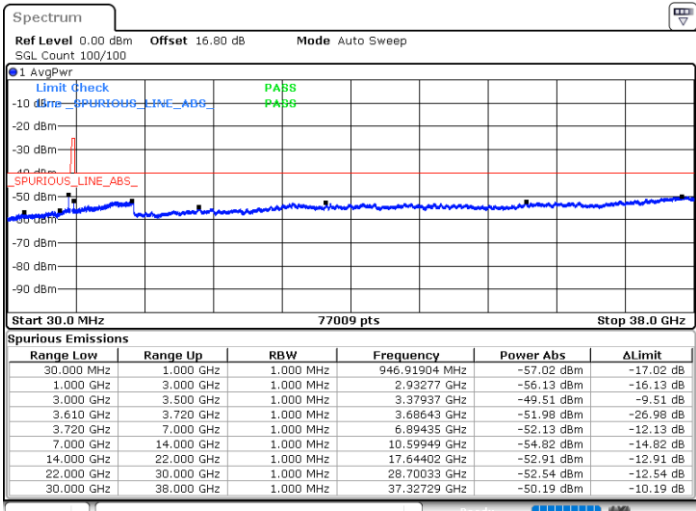


LTE Band 48 / 5MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

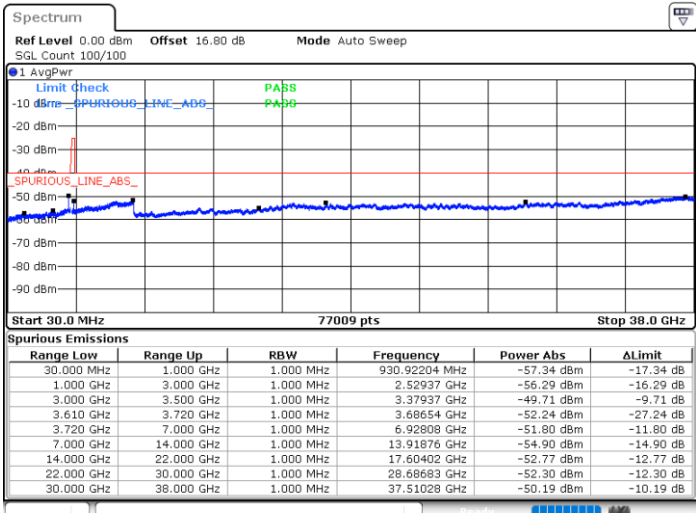


Date: 12.JUL.2020 20:35:22

Date: 12.JUL.2020 20:41:24

Lowest Channel / FullIRB

N/A



Date: 12.JUL.2020 20:43:42

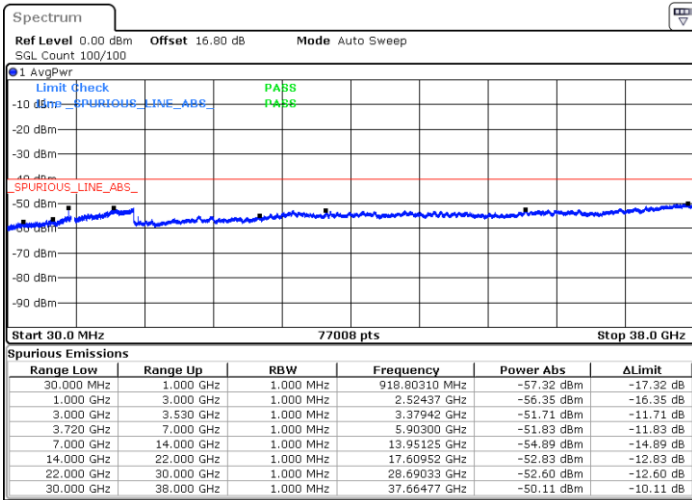


LTE Band 48 / 5MHz

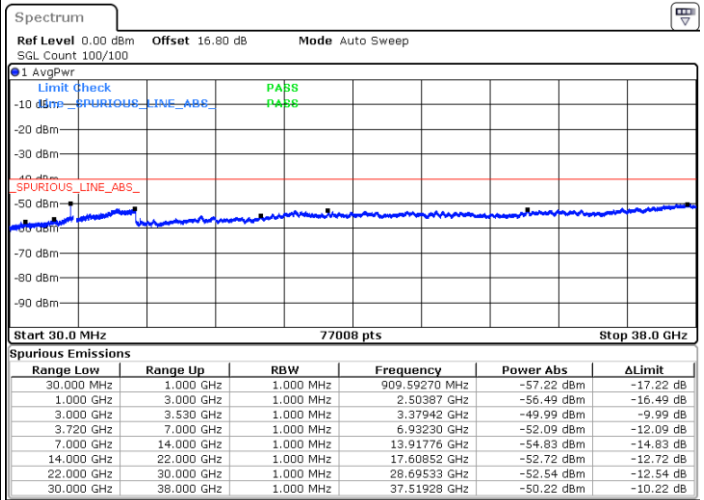
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



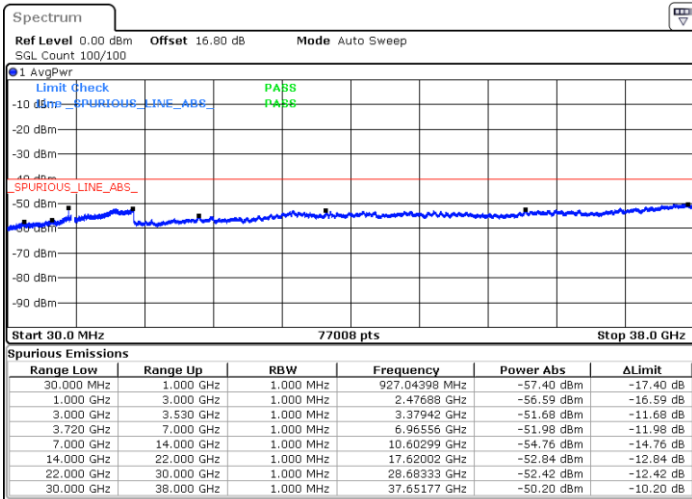
Date: 12.JUL.2020 20:49:24



Date: 12.JUL.2020 20:50:40

Middle Channel / FullIRB

N/A



Date: 12.JUL.2020 20:47:02

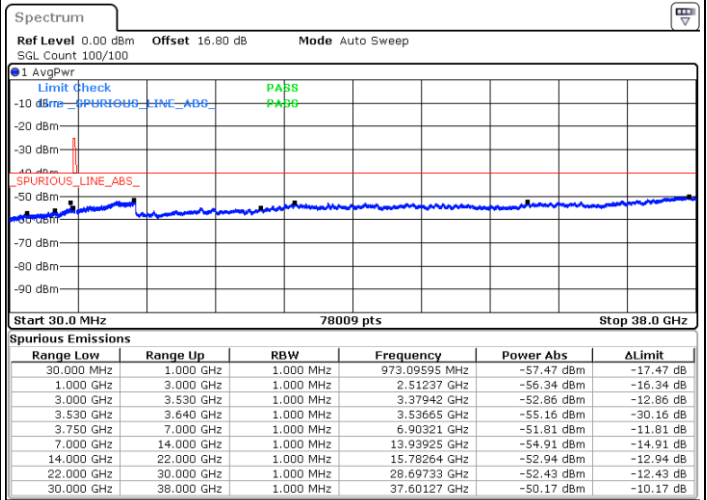
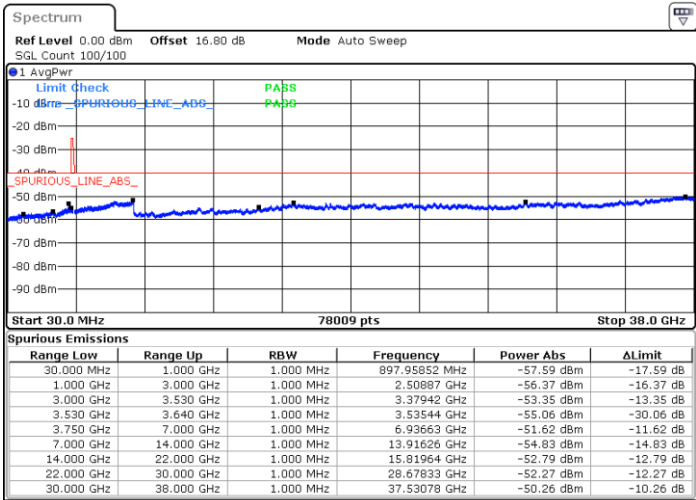


LTE Band 48 / 5MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

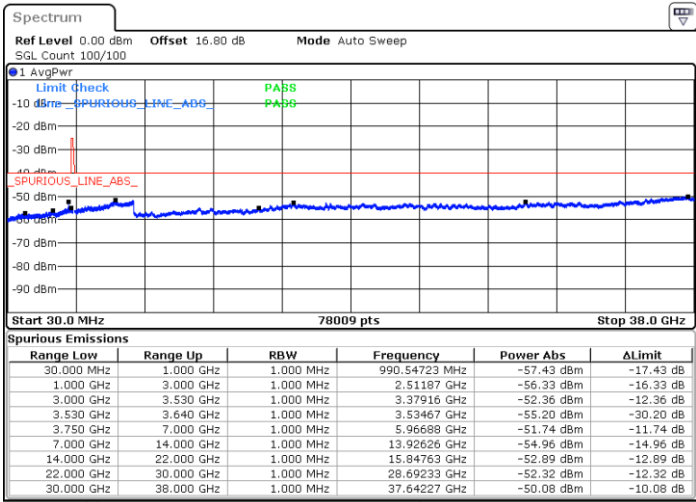


Date: 12.JUL.2020 21:11:59

Date: 12.JUL.2020 21:14:34

Highest Channel / FullIRB

N/A



Date: 12.JUL.2020 21:09:40

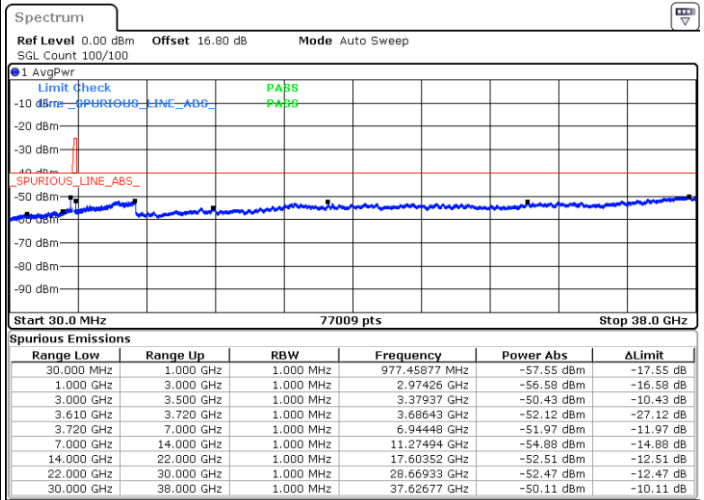
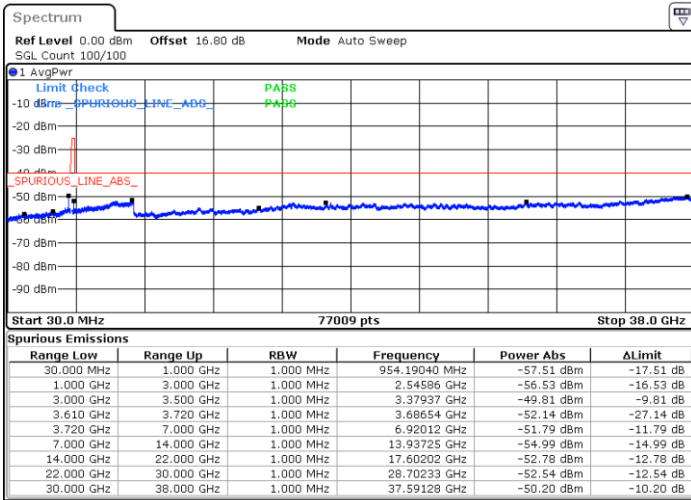


LTE Band 48 / 10MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

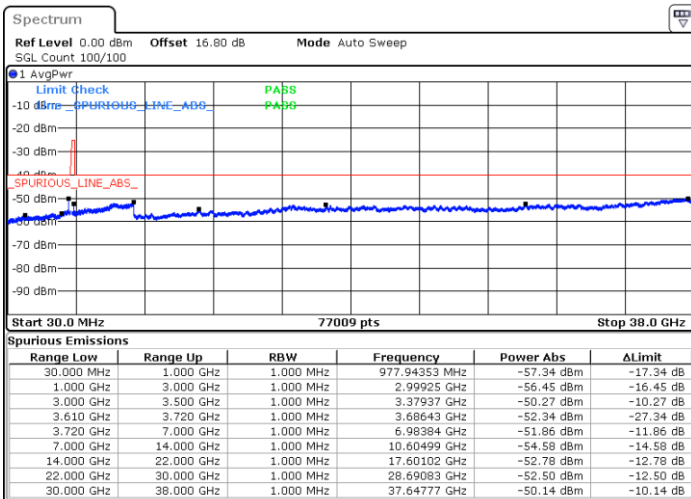


Date: 12.JUL.2020 21:31:29

Date: 12.JUL.2020 21:33:24

Lowest Channel / FullIRB

N/A



Date: 12.JUL.2020 21:28:34

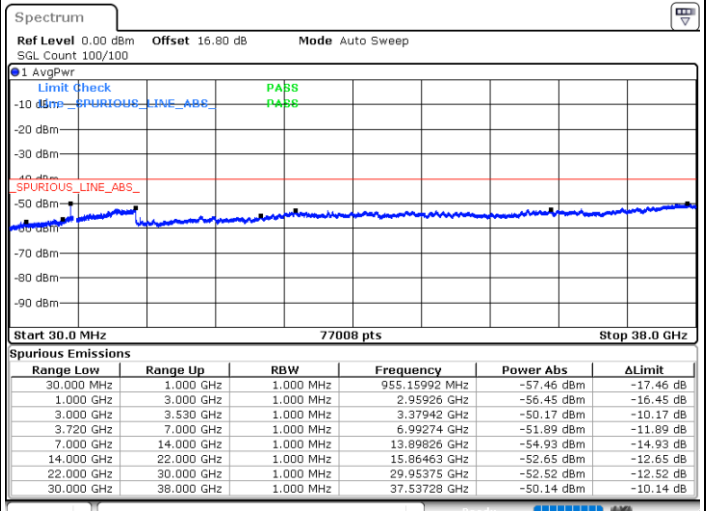
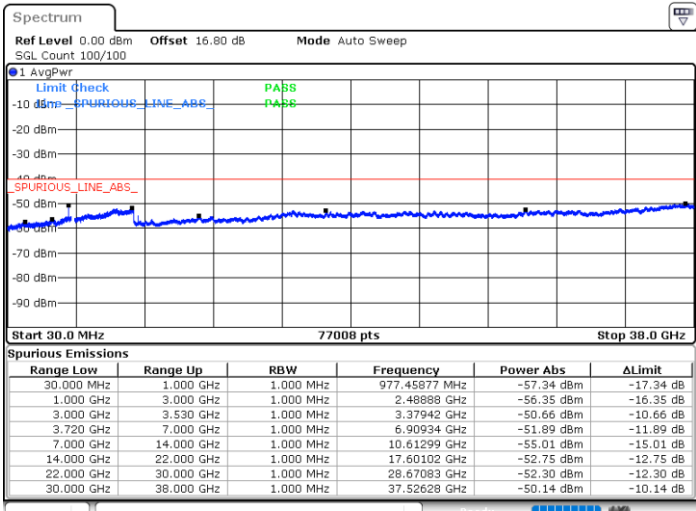


LTE Band 48 / 10MHz

256QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax

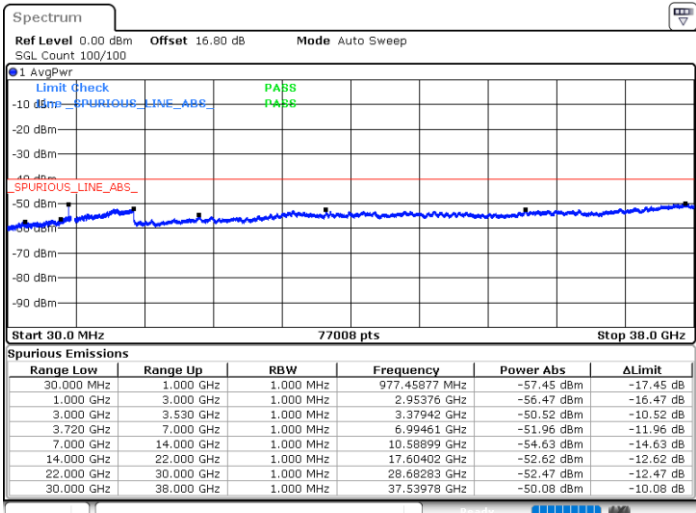


Date: 12.JUL.2020 21:38:39

Date: 12.JUL.2020 21:40:42

Middle Channel / FullIRB

N/A



Date: 12.JUL.2020 21:36:06

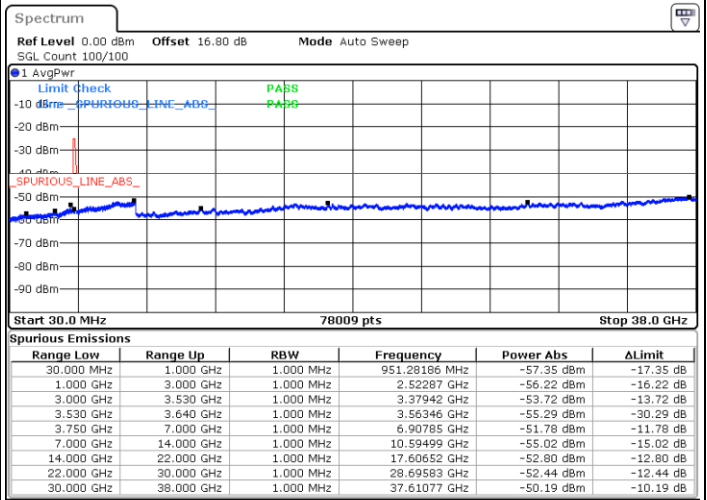
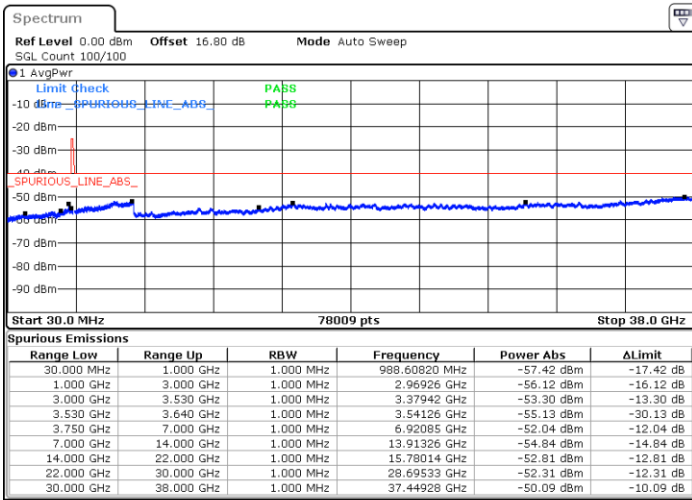


LTE Band 48 / 10MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

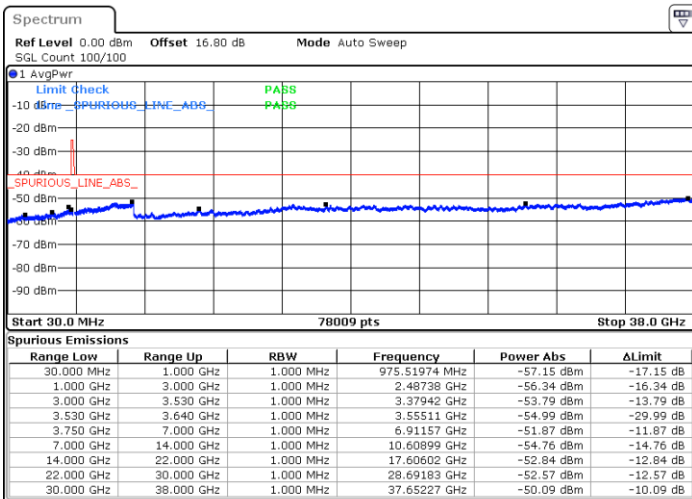


Date: 12.JUL.2020 21:45:25

Date: 12.JUL.2020 21:47:25

Highest Channel / FullIRB

N/A



Date: 12.JUL.2020 21:43:26

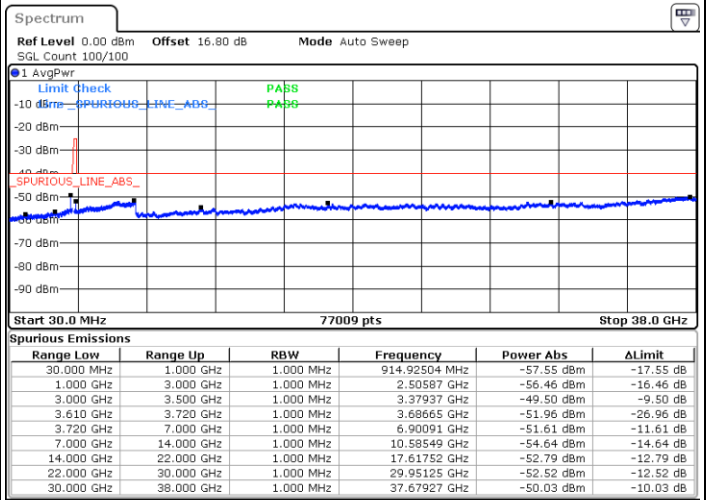
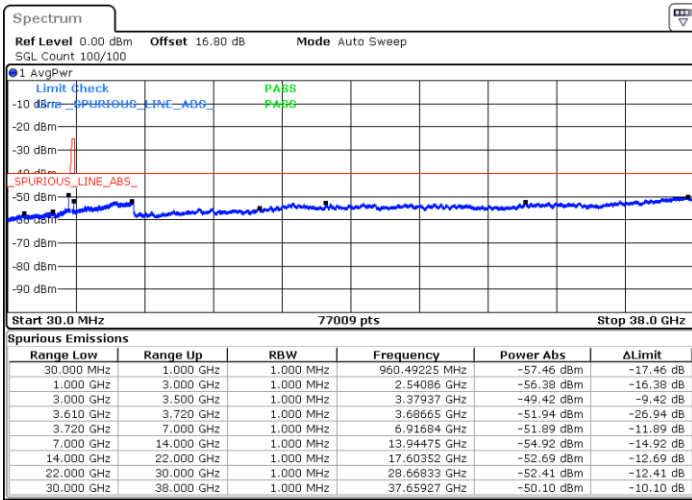


LTE Band 48 / 15MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

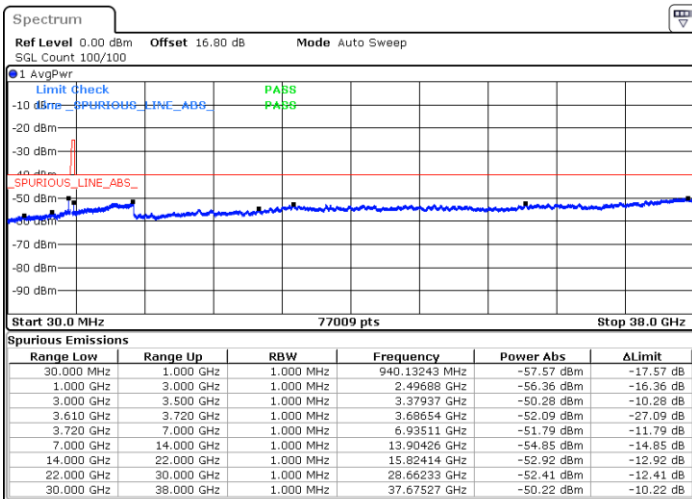


Date: 12.JUL.2020 21:54:07

Date: 12.JUL.2020 21:56:31

Lowest Channel / FullIRB

N/A



Date: 12.JUL.2020 21:51:45

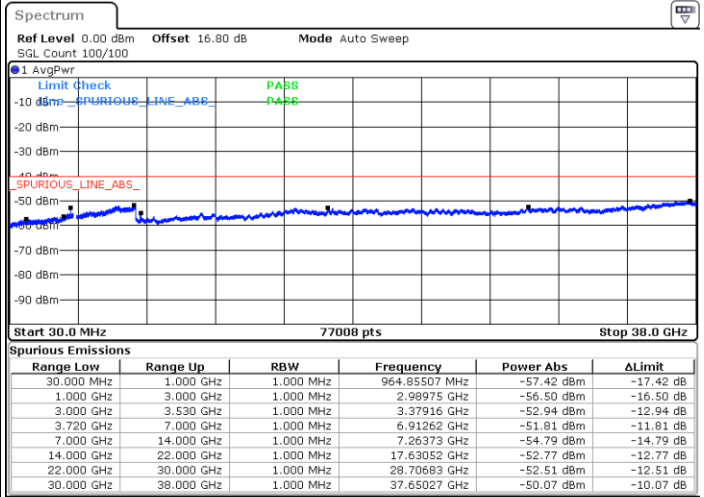
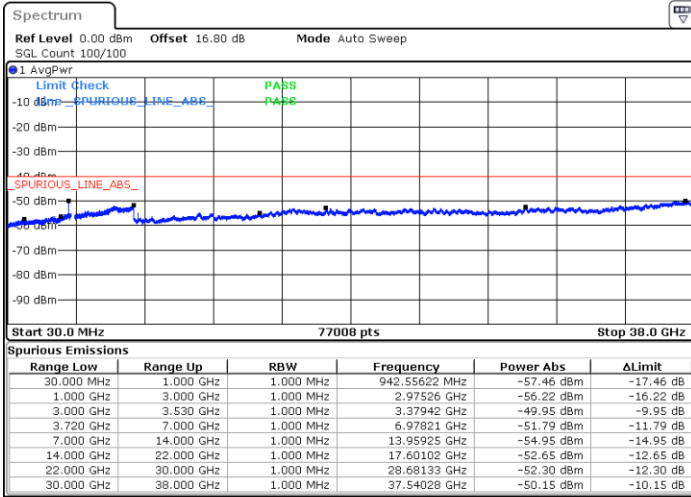


LTE Band 48 / 15MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

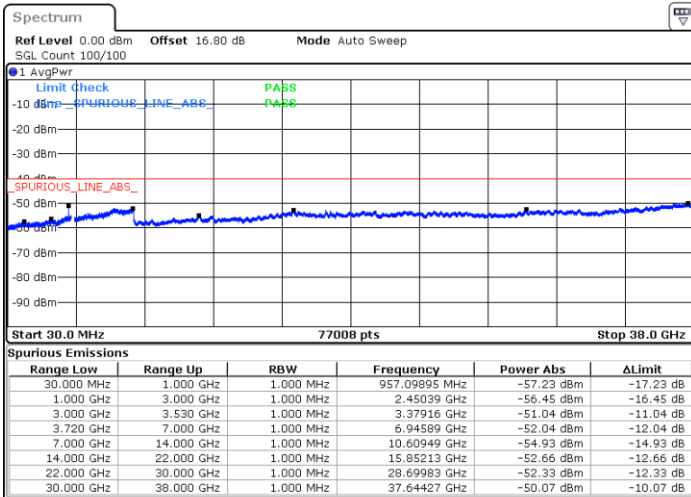


Date: 12.JUL.2020 22:02:46

Date: 12.JUL.2020 22:05:43

Middle Channel / FullIRB

N/A



Date: 12.JUL.2020 21:59:49



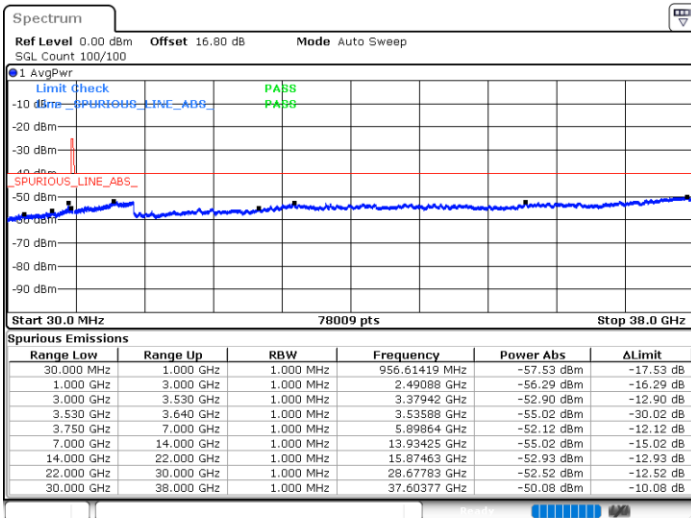


LTE Band 48 / 15MHz

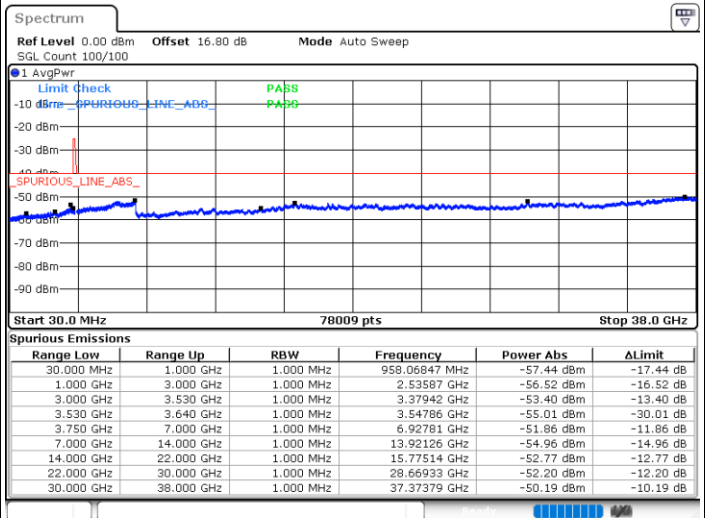
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



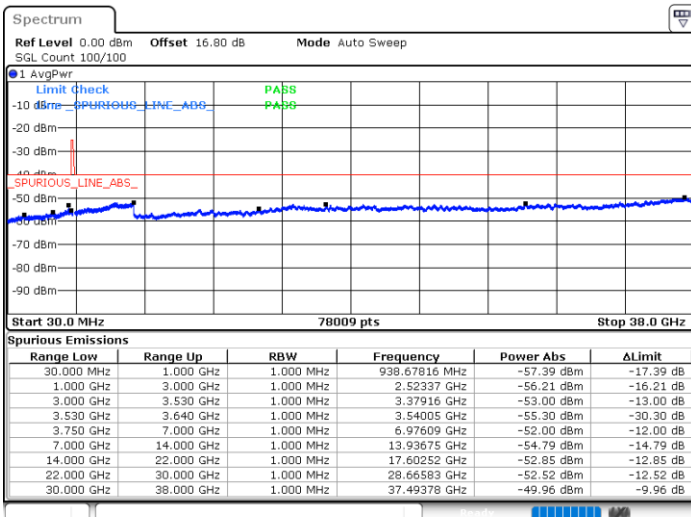
Date: 12.JUL.2020 22:11:32



Date: 12.JUL.2020 22:14:15

Highest Channel / FullIRB

N/A



Date: 12.JUL.2020 22:08:59

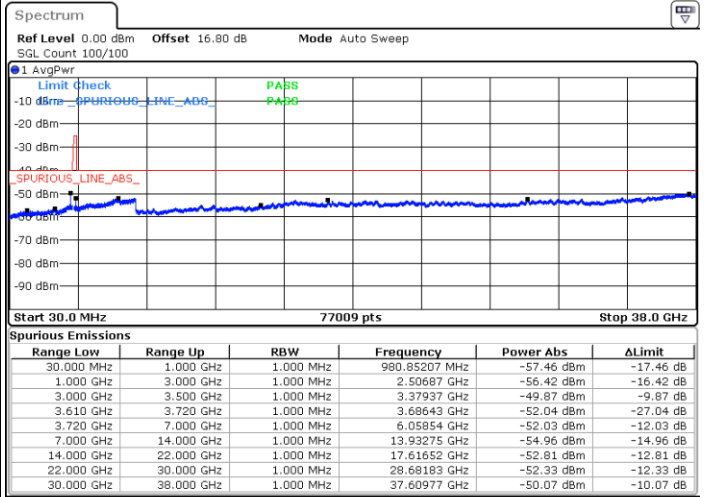
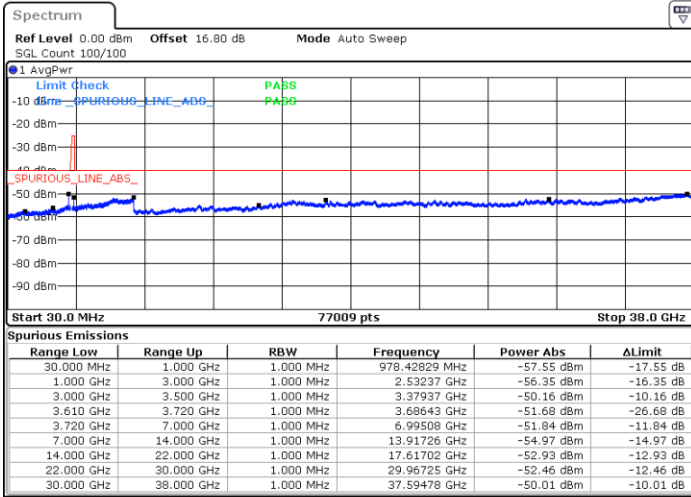


LTE Band 48 / 20MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

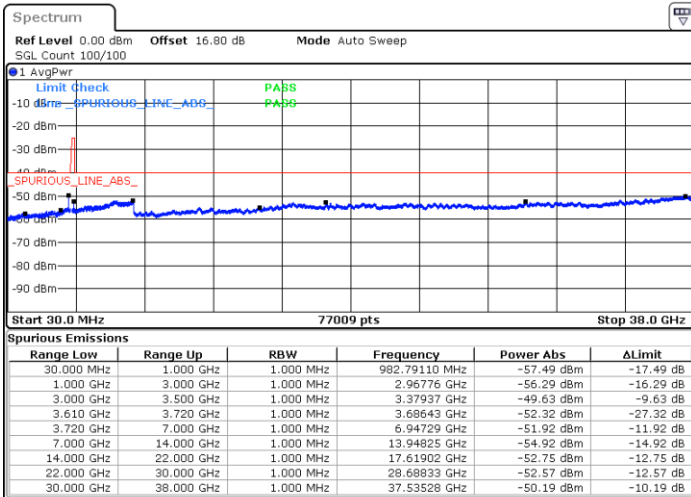


Date: 12.JUL.2020 22:21:00

Date: 12.JUL.2020 22:23:21

Lowest Channel / FullIRB

N/A



Date: 12.JUL.2020 22:18:32

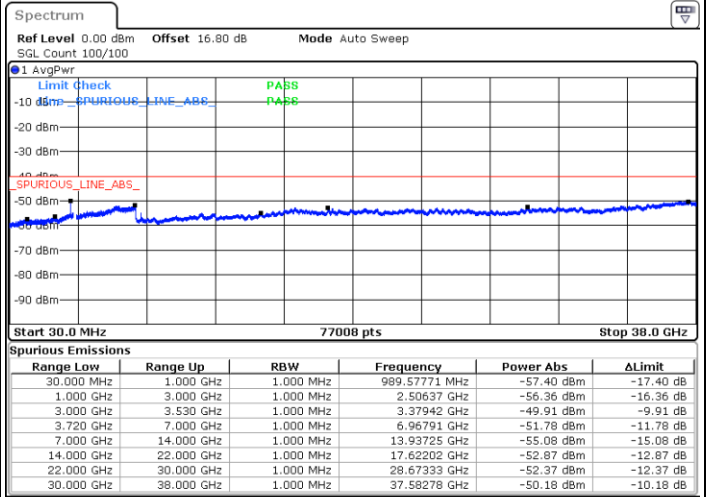
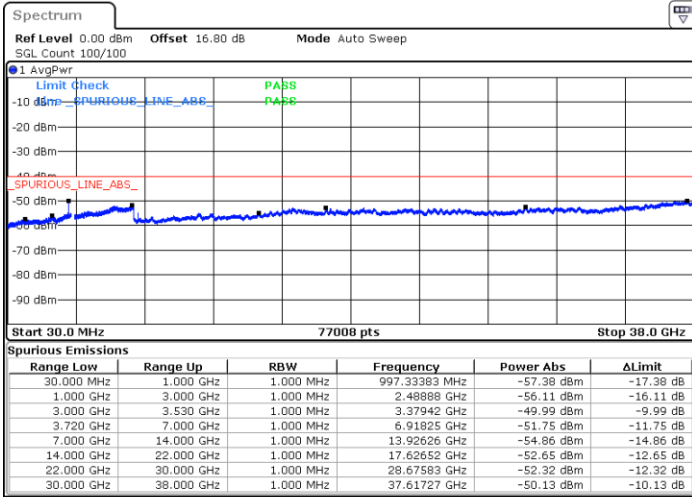


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

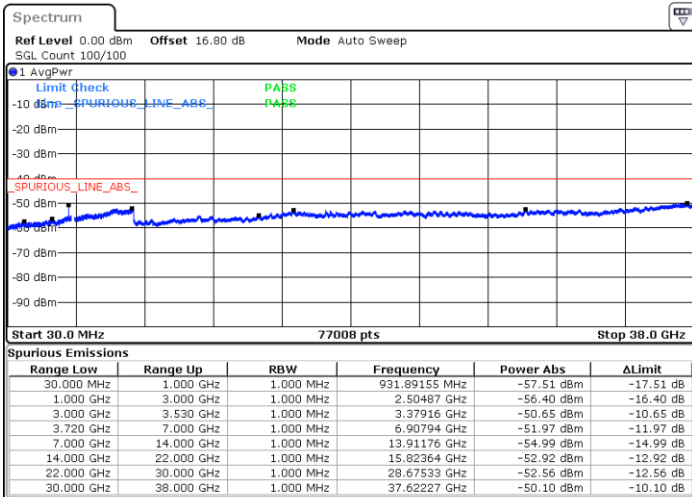


Date: 12.JUL.2020 22:31:12

Date: 12.JUL.2020 22:33:52

Middle Channel / FullIRB

N/A



Date: 12.JUL.2020 22:28:37

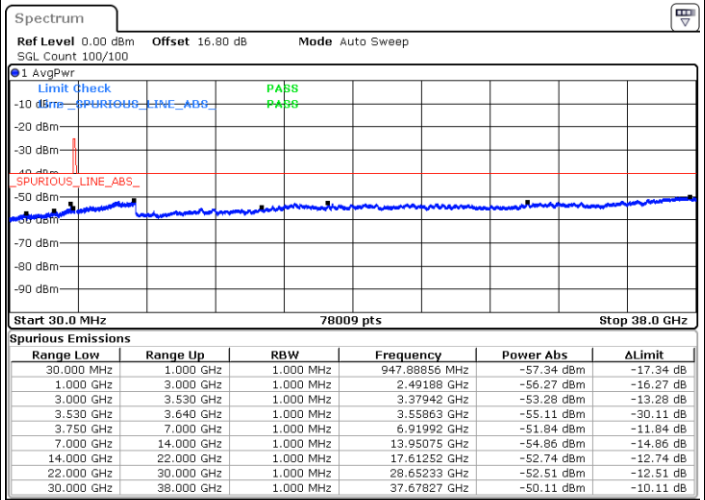
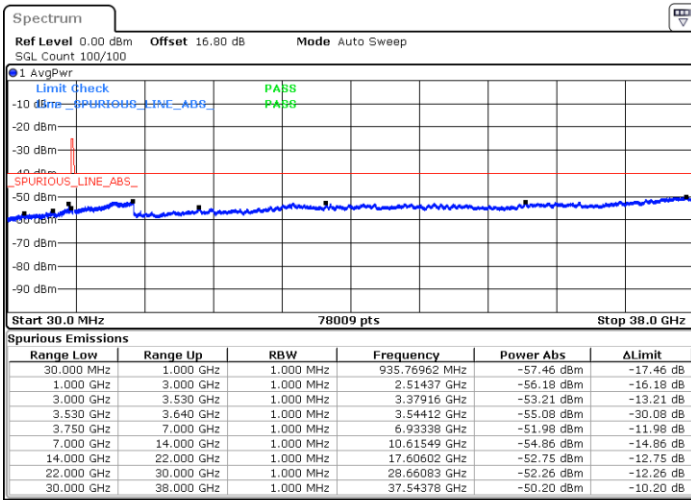


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

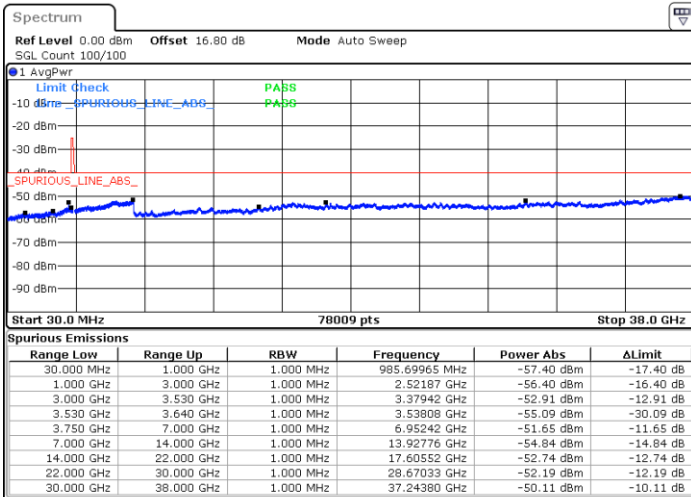


Date: 12.JUL.2020 22:44:23

Date: 12.JUL.2020 22:47:15

Highest Channel / FullIRB

N/A



Date: 12.JUL.2020 22:41:42



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 48C

## 26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.78	29.85	34.76	24.98
Middle CH	24.83	29.85	34.90	24.93
Highest CH	24.73	29.91	34.90	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.91	34.83	39.80	-
Middle CH	29.97	34.97	39.96	-
Highest CH	30.03	34.69	39.96	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.63	29.79	34.83	24.78
Middle CH	24.63	29.73	34.76	24.93
Highest CH	24.68	29.73	34.69	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.15	34.90	39.80	-
Middle CH	29.85	34.90	39.80	-
Highest CH	30.09	34.90	39.72	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.73	29.79	34.83	24.83
Middle CH	24.83	29.91	34.83	25.08
Highest CH	24.63	29.73	34.83	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.15	34.69	39.88	-
Middle CH	30.09	34.90	39.96	-
Highest CH	30.03	34.90	39.80	-



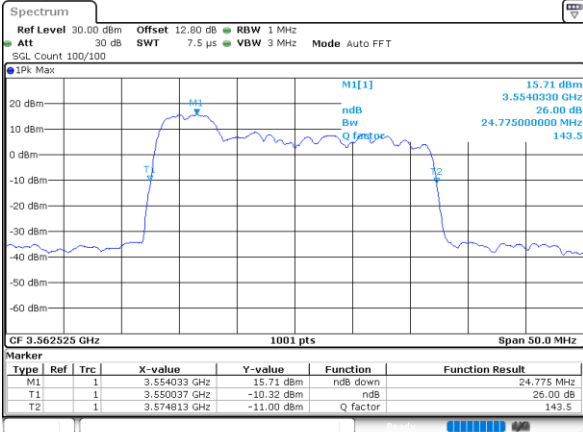
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.73	29.85	34.97	24.83
Middle CH	24.63	29.91	34.90	24.88
Highest CH	24.68	29.73	34.83	25.03
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.09	34.83	39.80	-
Middle CH	29.85	34.83	39.72	-
Highest CH	29.97	34.90	39.72	-



LTE Band 48C

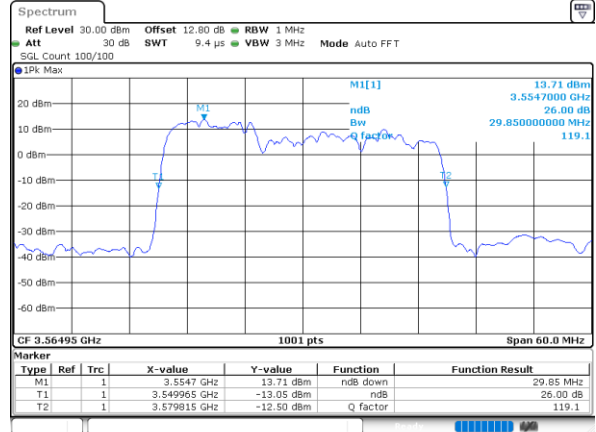
QPSK

Lowest Channel / 5MHz+20MHz



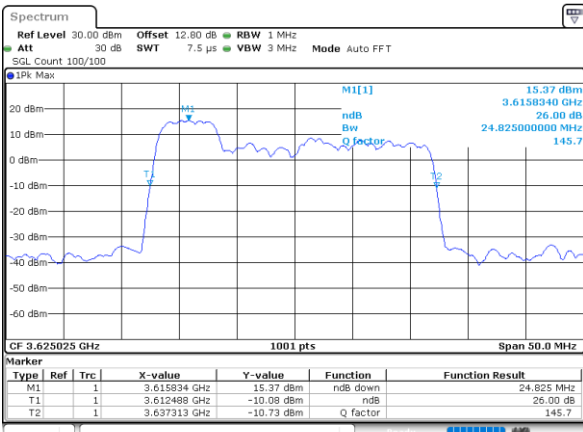
Date: 10\_JUL\_2020 13:46:44

Lowest Channel / 10MHz+20MHz



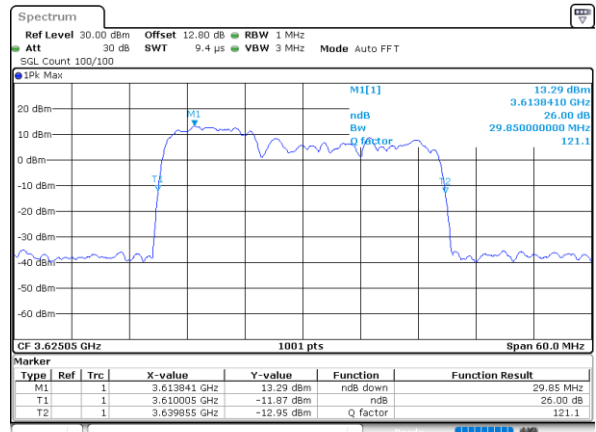
Date: 11\_JUL\_2020 20:13:51

Middle Channel / 5MHz+20MHz



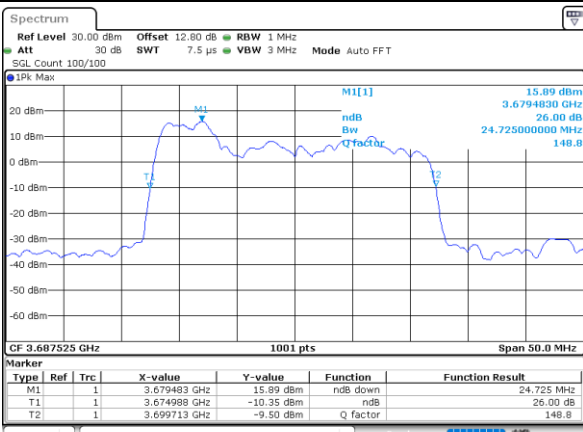
Date: 10\_JUL\_2020 15:43:06

Middle Channel / 10MHz+20MHz



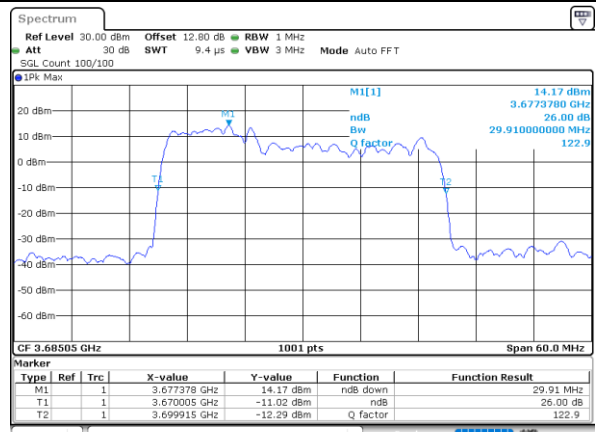
Date: 11\_JUL\_2020 21:13:14

Highest Channel / 5MHz+20MHz



Date: 10\_JUL\_2020 14:08:37

Highest Channel / 10MHz+20MHz



Date: 11\_JUL\_2020 21:13:14

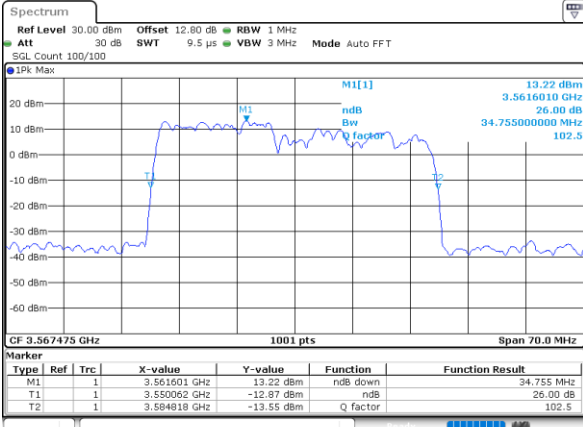




LTE Band 48C

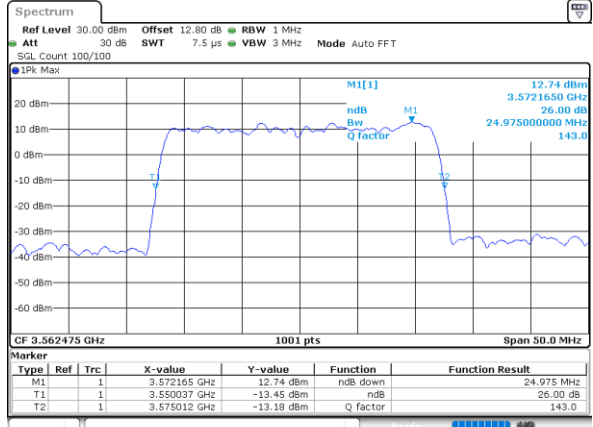
QPSK

Lowest Channel / 15MHz+20MHz



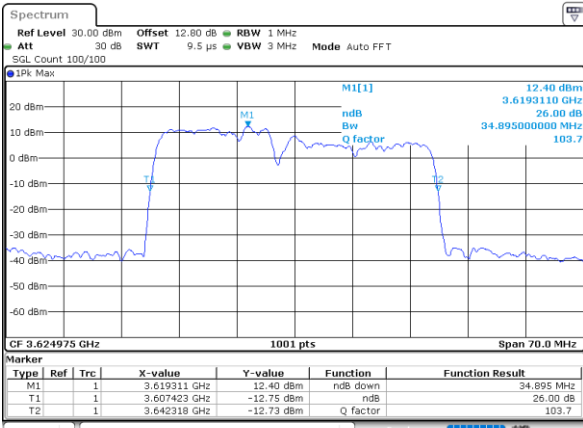
Date: 12\_JUL\_2020 11:15:43

Lowest Channel / 20MHz+5MHz



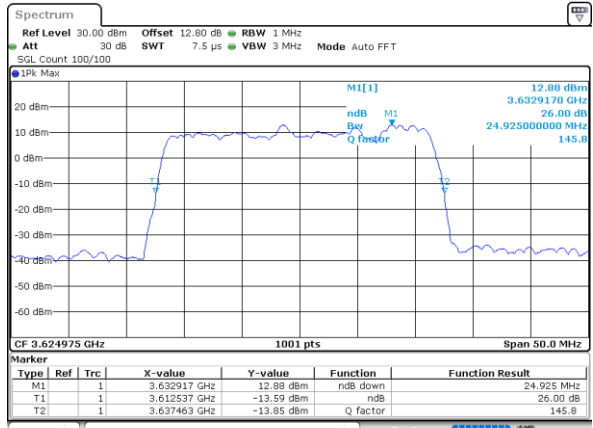
Date: 10\_JUL\_2020 17:43:16

Middle Channel / 15MHz+20MHz



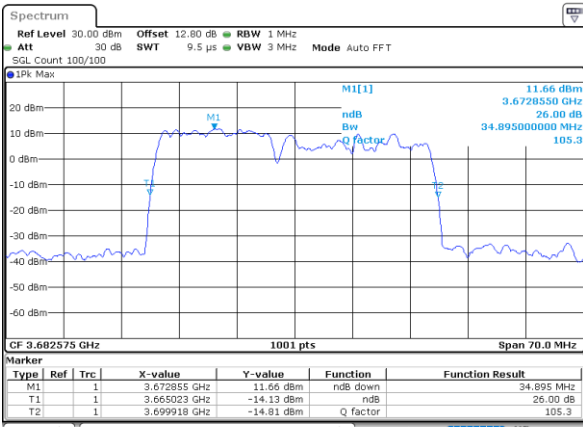
Date: 12\_JUL\_2020 13:16:24

Middle Channel / 20MHz+5MHz



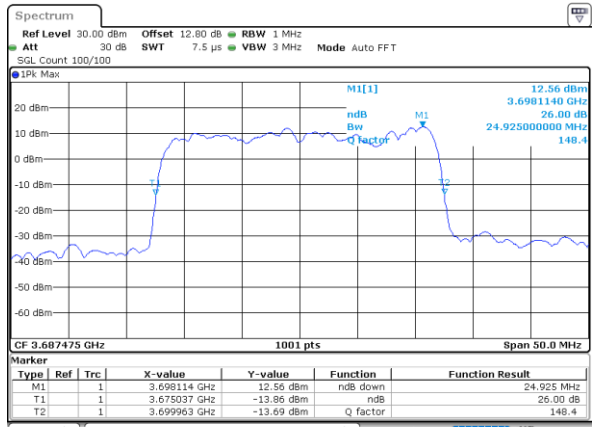
Date: 11\_JUL\_2020 18:16:15

Highest Channel / 15MHz+20MHz



Date: 12\_JUL\_2020 13:19:16

Highest Channel / 20MHz+5MHz



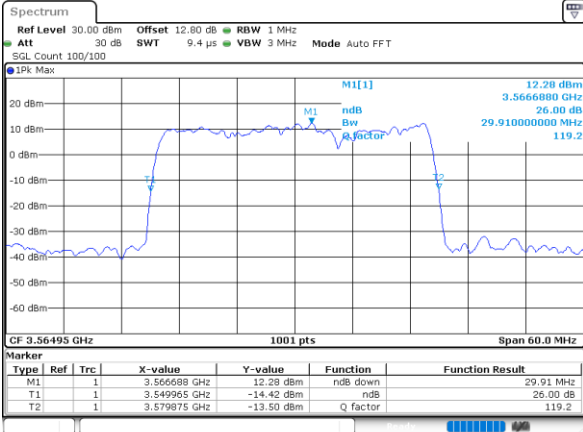
Date: 11\_JUL\_2020 18:20:24



LTE Band 48C

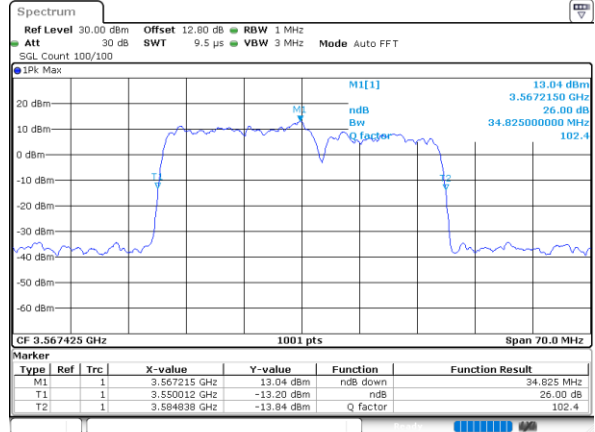
QPSK

Lowest Channel / 20MHz+10MHz



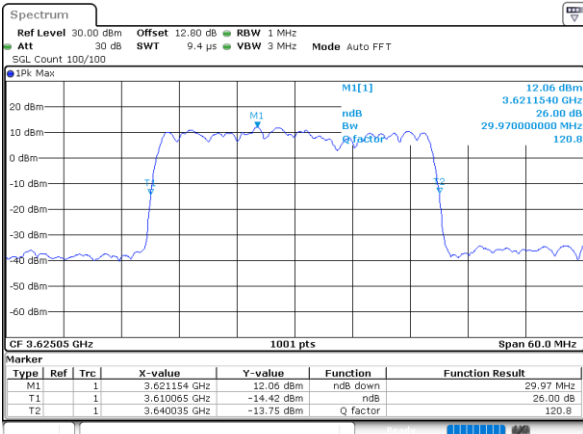
Date: 11\_JUL\_2020 23:17:34

Lowest Channel / 20MHz+15MHz



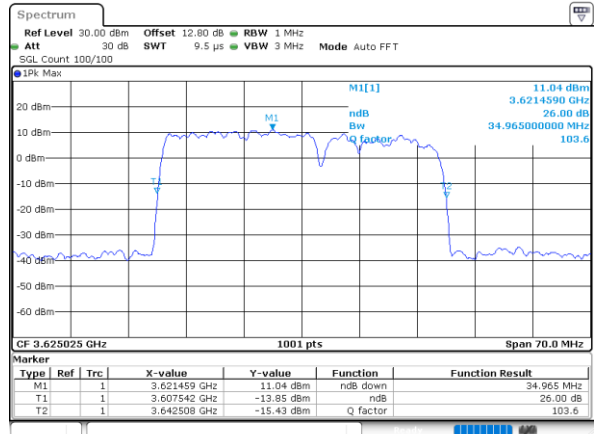
Date: 12\_JUL\_2020 13:23:33

Middle Channel / 20MHz+10MHz



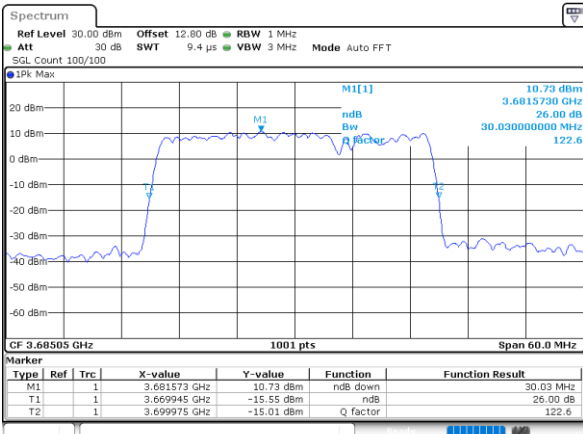
Date: 12\_JUL\_2020 11:11:19

Middle Channel / 20MHz+15MHz



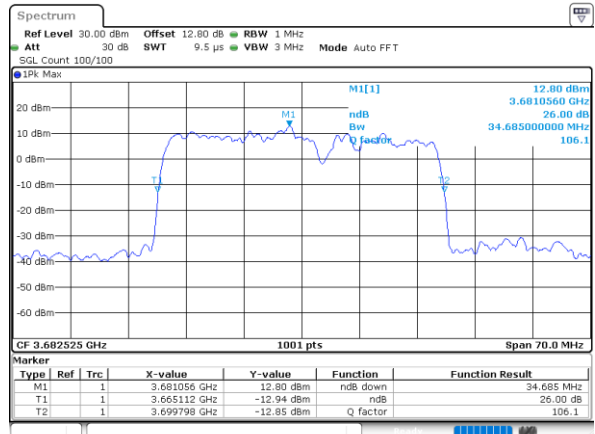
Date: 12\_JUL\_2020 13:27:08

Highest Channel / 20MHz+10MHz



Date: 11\_JUL\_2020 23:20:43

Highest Channel / 20MHz+15MHz



Date: 12\_JUL\_2020 13:32:09

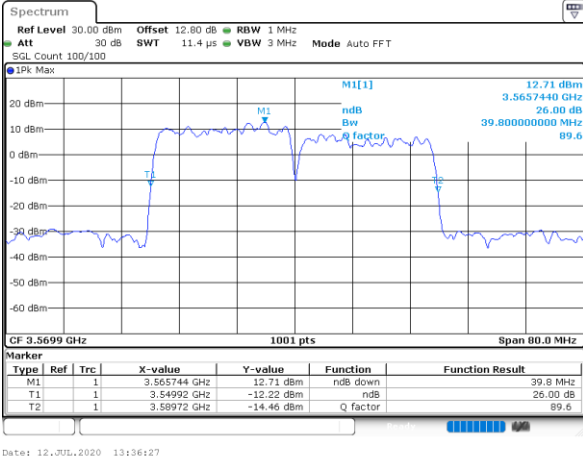


LTE Band 48C

QPSK

Lowest Channel / 20MHz+20MHz

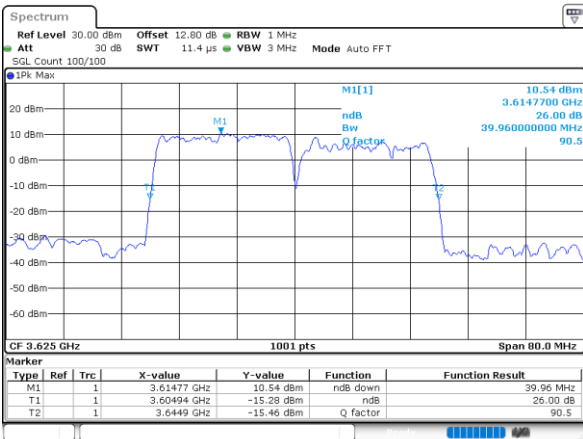
N/A



Date: 12-Jul-2020 13:36:27

Middle Channel / 20MHz+20MHz

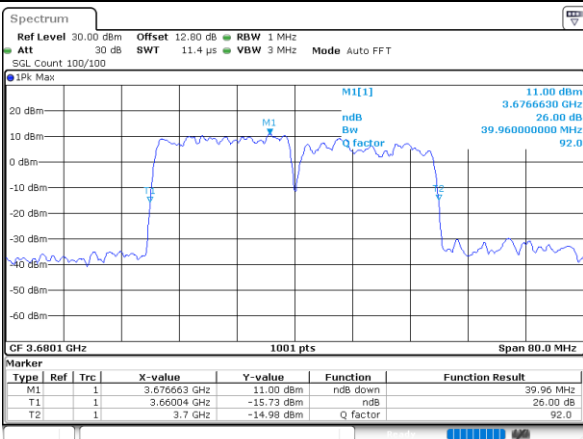
N/A



Date: 12-Jul-2020 13:40:17

Highest Channel / 20MHz+20MHz

N/A



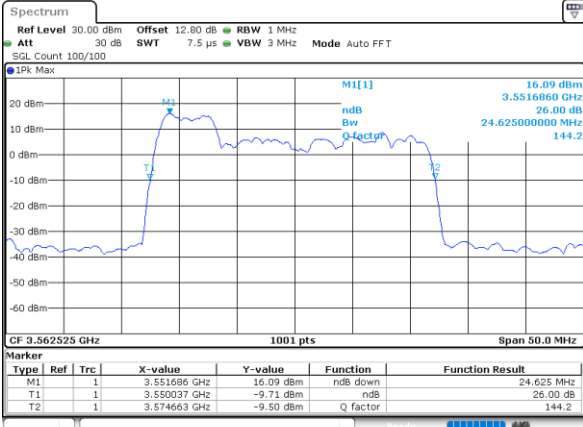
Date: 12-Jul-2020 13:43:08



LTE Band 48C

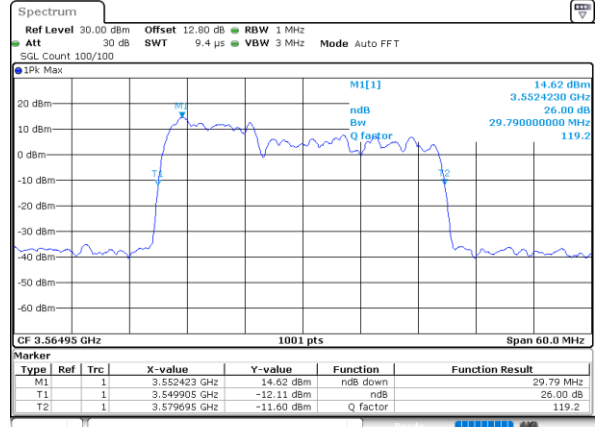
16QAM

Lowest Channel / 5MHz+20MHz



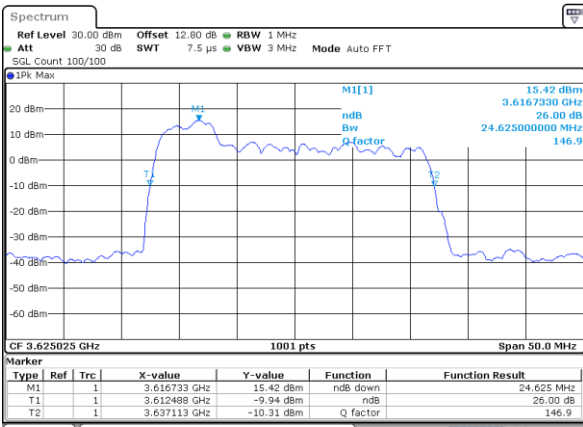
Date: 10\_JUL\_2020 13:46:22

Lowest Channel / 10MHz+15MHz



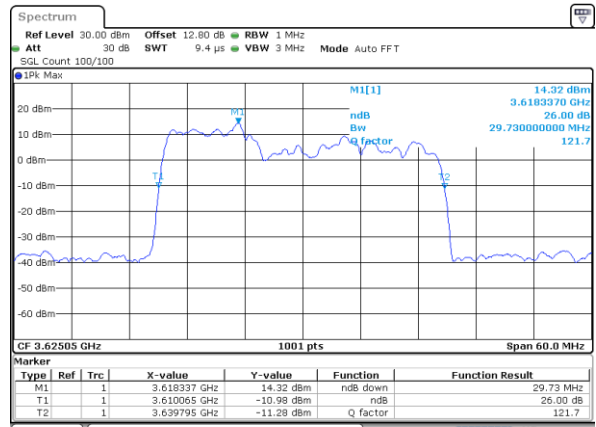
Date: 11\_JUL\_2020 20:13:27

Middle Channel / 5MHz+20MHz



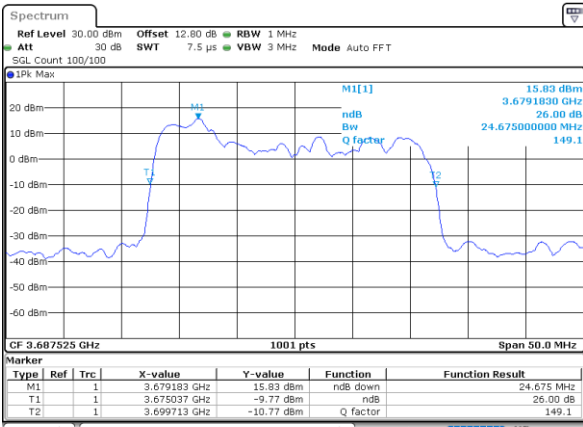
Date: 10\_JUL\_2020 15:42:43

Middle Channel / 10MHz+20MHz



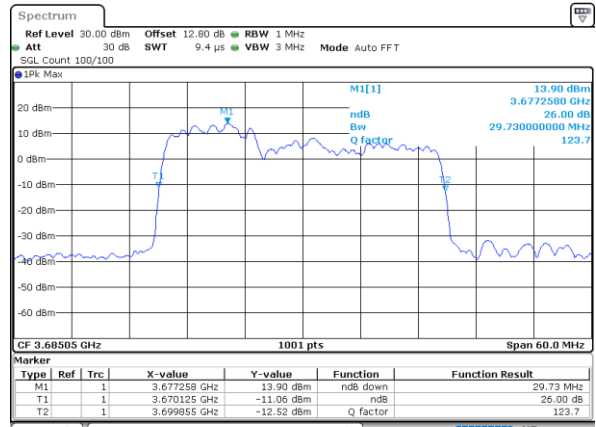
Date: 11\_JUL\_2020 21:13:10

Highest Channel / 5MHz+20MHz



Date: 10\_JUL\_2020 14:09:00

Highest Channel / 10MHz+20MHz



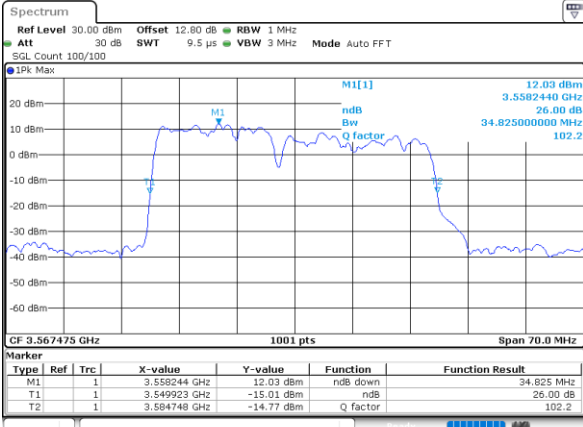
Date: 11\_JUL\_2020 21:13:27



LTE Band 48C

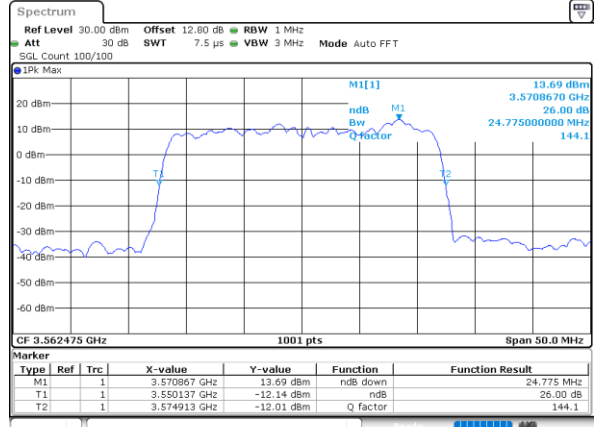
16QAM

Lowest Channel / 10MHz+20MHz



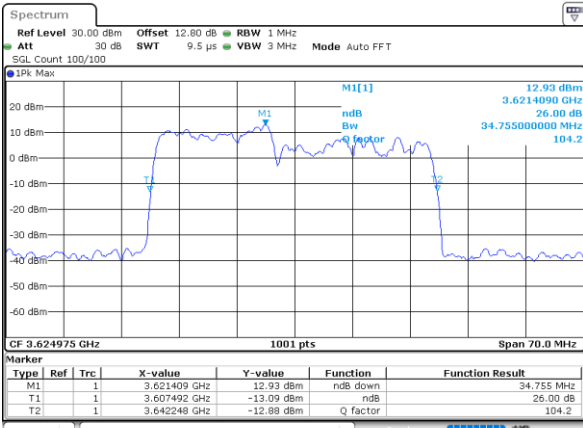
Date: 12\_JUL\_2020 11:15:20

Lowest Channel / 15MHz+10MHz



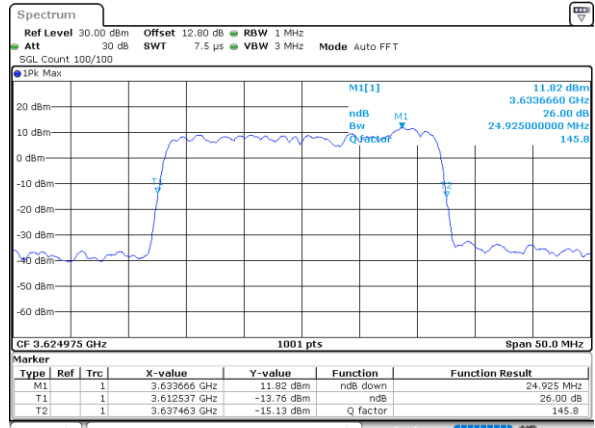
Date: 10\_JUL\_2020 17:42:53

Middle Channel / 15MHz+20MHz



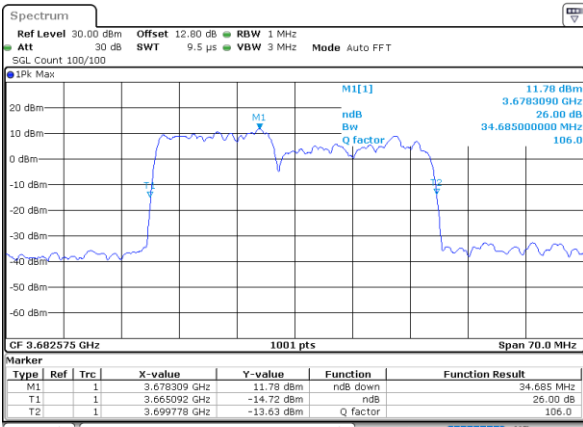
Date: 12\_JUL\_2020 13:16:01

Middle Channel / 20MHz+5MHz



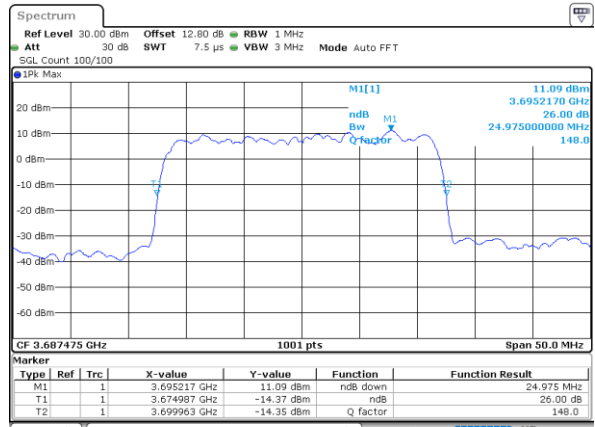
Date: 11\_JUL\_2020 18:35:52

Highest Channel / 15MHz+20MHz



Date: 12\_JUL\_2020 13:19:30

Highest Channel / 20MHz+5MHz



Date: 11\_JUL\_2020 18:20:48