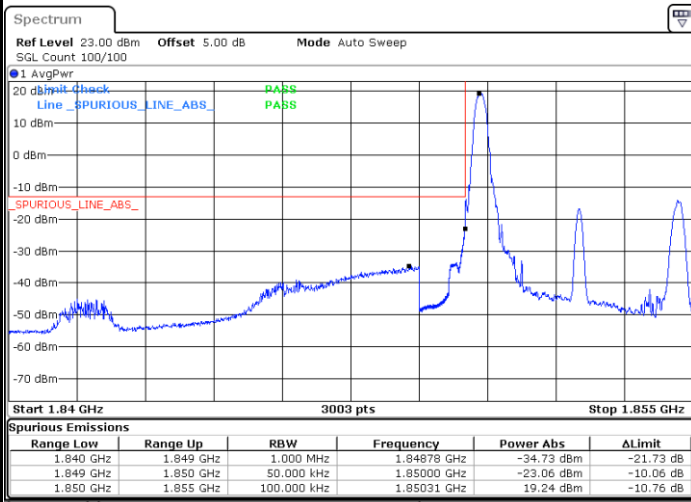




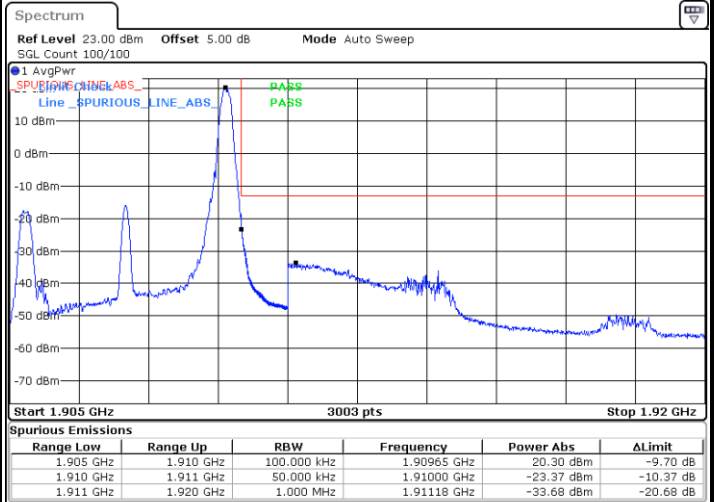
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



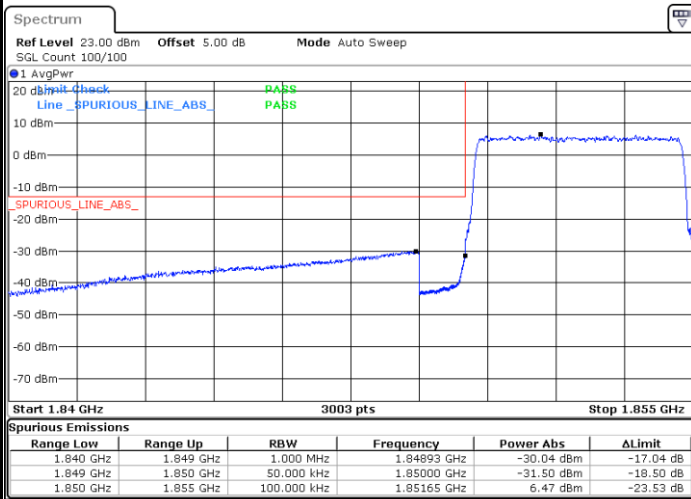
Date: 16 NOV 2020 22:07:03

Highest Band Edge / 1 RB



Date: 16 NOV 2020 22:16:32

Lowest Band Edge / Full RB



Date: 16 NOV 2020 22:09:18

Highest Band Edge / Full RB

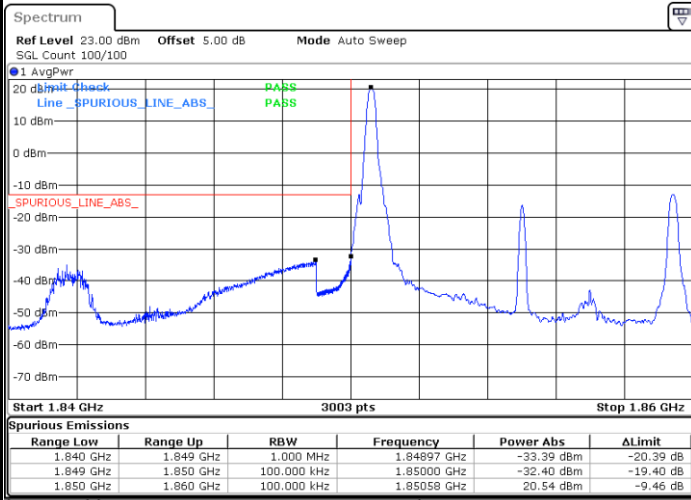


Date: 16 NOV 2020 22:18:47



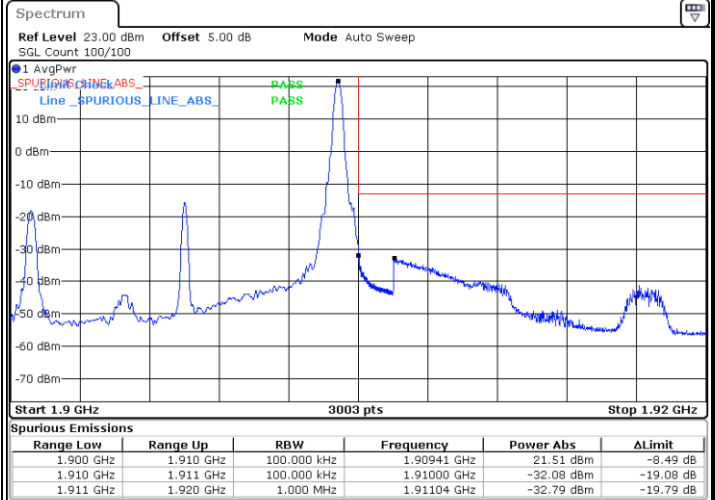
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



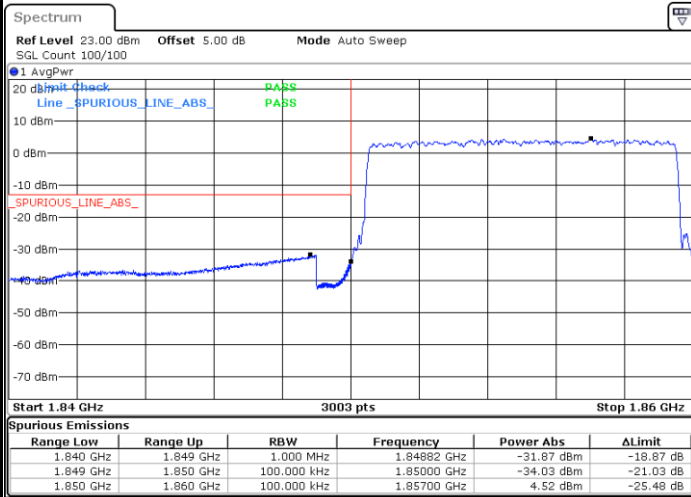
Date: 16 NOV.2020 22:41:01

Highest Band Edge / 1 RB



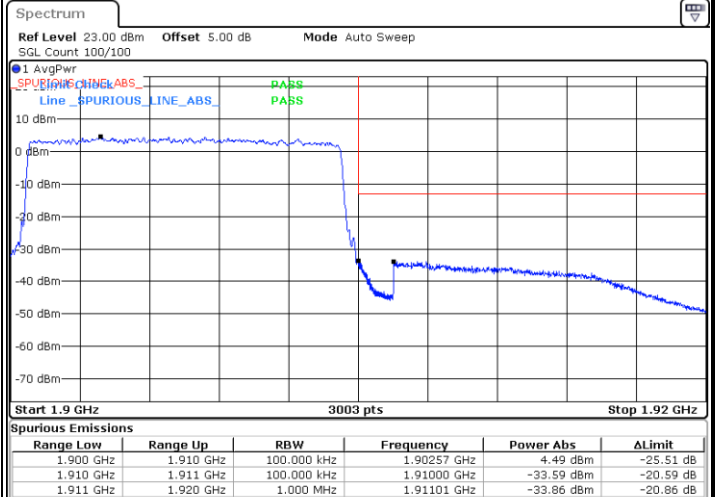
Date: 16 NOV.2020 22:50:27

Lowest Band Edge / Full RB



Date: 16 NOV.2020 22:43:16

Highest Band Edge / Full RB

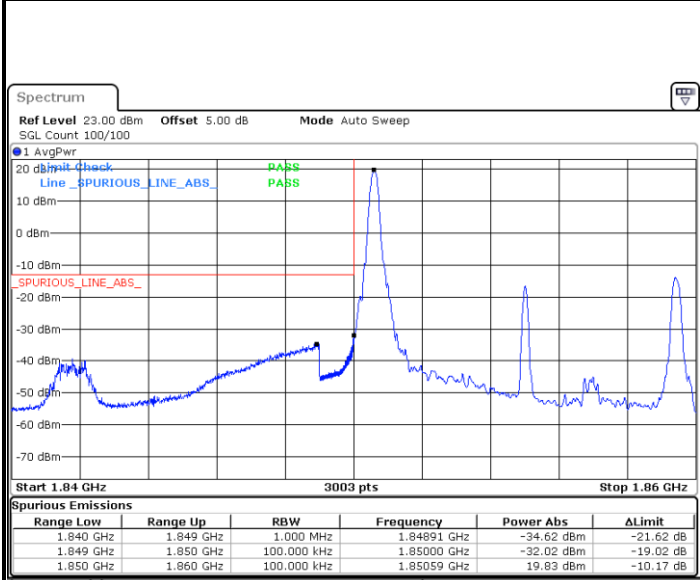


Date: 16 NOV.2020 22:52:42



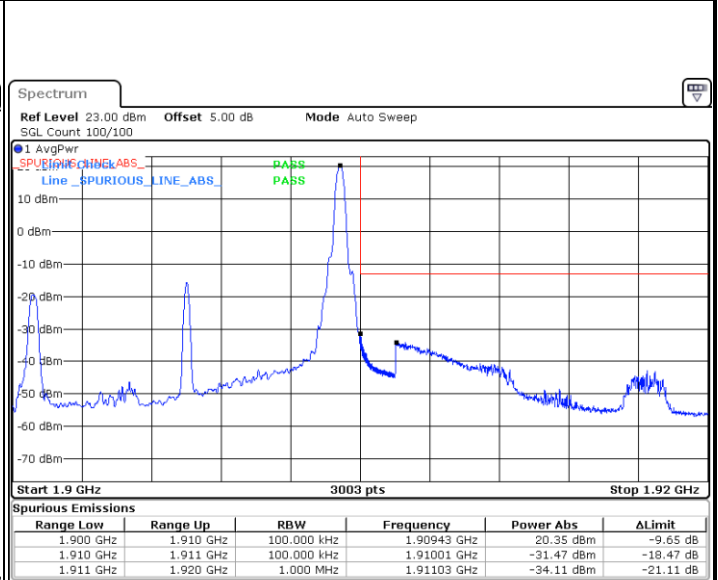
**LTE Band 2 / 10MHz / 16QAM**

**Lowest Band Edge / 1 RB**



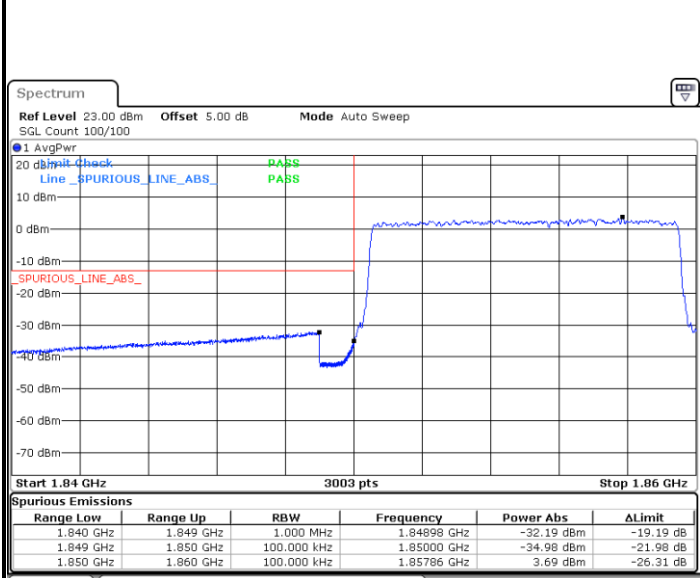
Date: 16 NOV 2020 22:42:08

**Highest Band Edge / 1 RB**



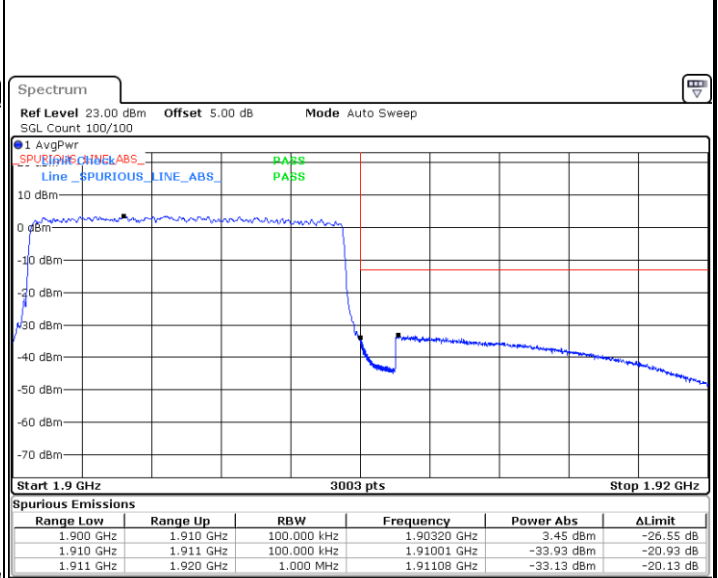
Date: 16 NOV 2020 22:51:35

**Lowest Band Edge / Full RB**



Date: 16 NOV 2020 22:44:23

**Highest Band Edge / Full RB**

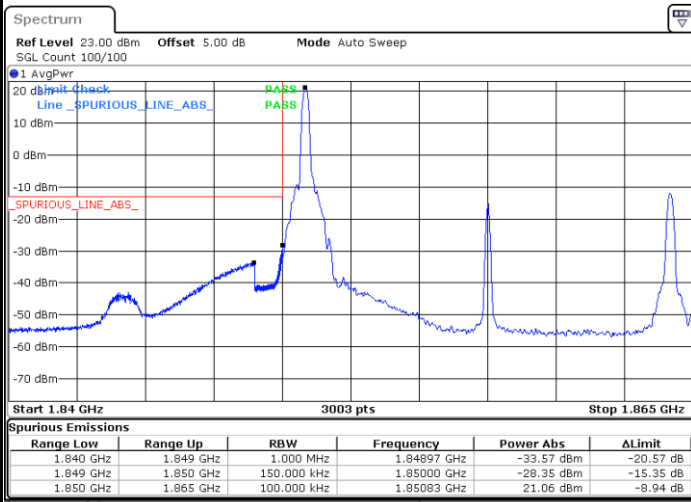


Date: 16 NOV 2020 22:53:49



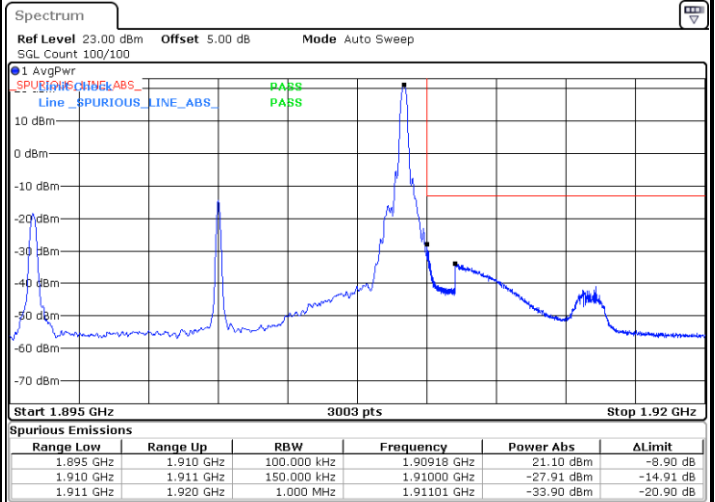
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



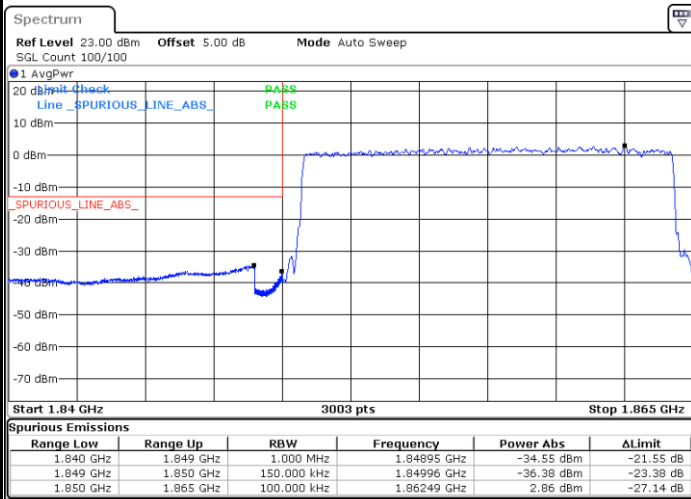
Date: 16 NOV 2020 22:57:48

Highest Band Edge / 1 RB



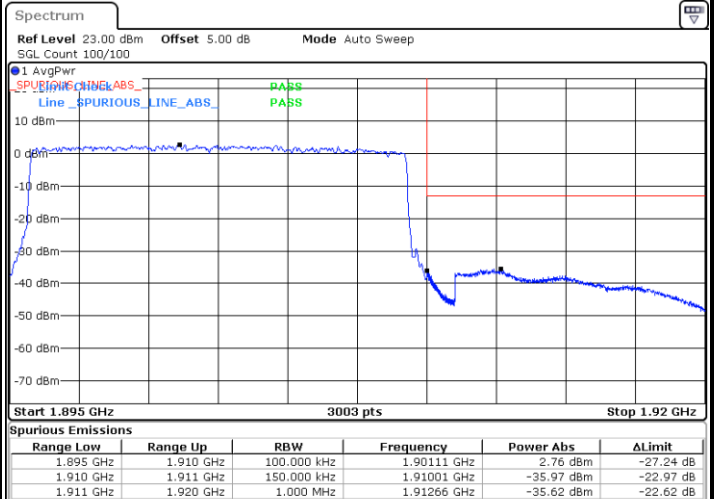
Date: 16 NOV 2020 23:07:14

Lowest Band Edge / Full RB



Date: 16 NOV 2020 23:00:02

Highest Band Edge / Full RB

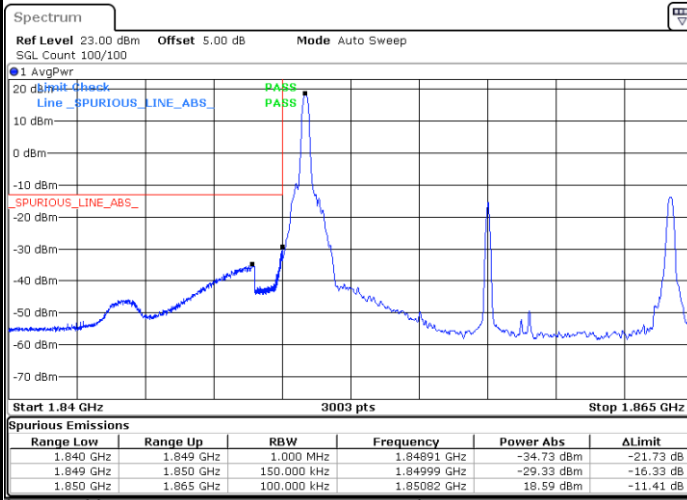


Date: 16 NOV 2020 23:09:29



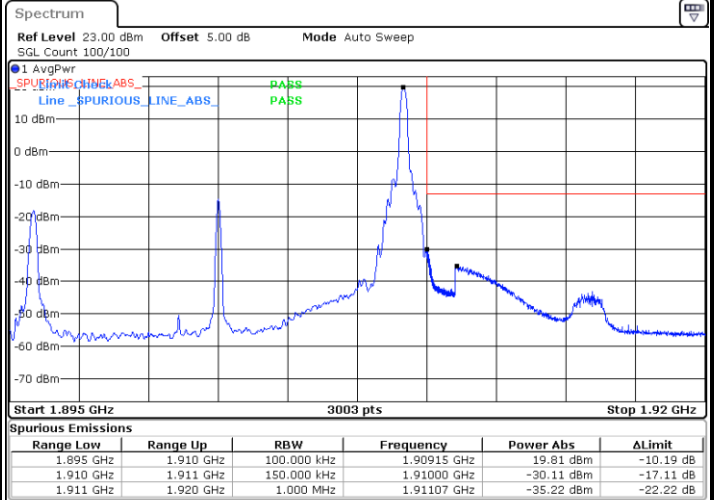
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



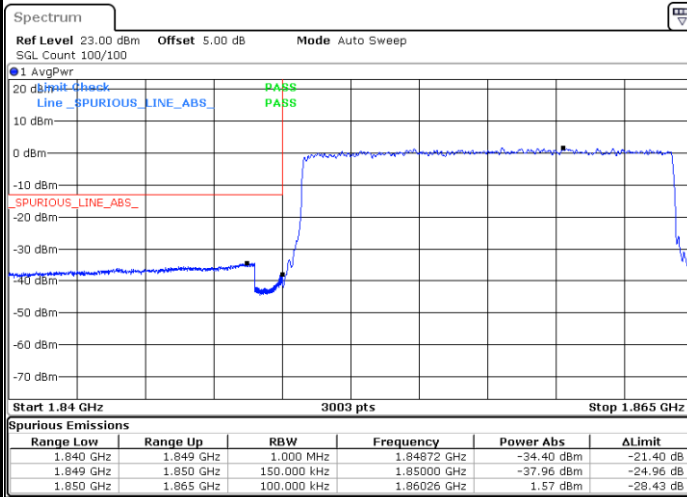
Date: 16 NOV 2020 22:58:55

Highest Band Edge / 1 RB



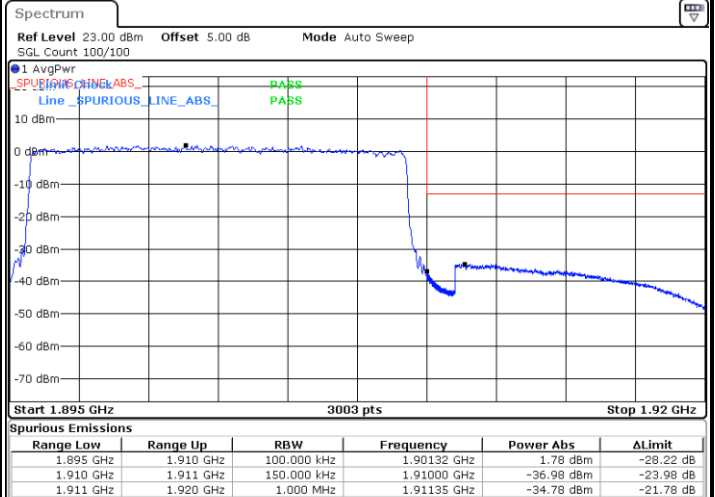
Date: 16 NOV 2020 23:08:22

Lowest Band Edge / Full RB



Date: 16 NOV 2020 23:01:10

Highest Band Edge / Full RB

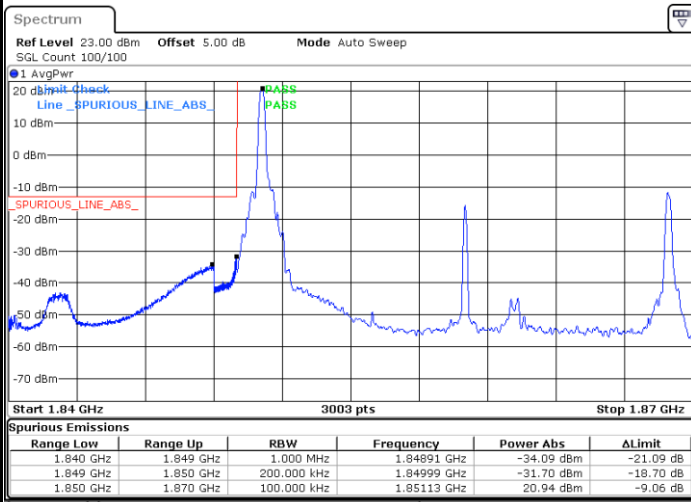


Date: 16 NOV 2020 23:10:36



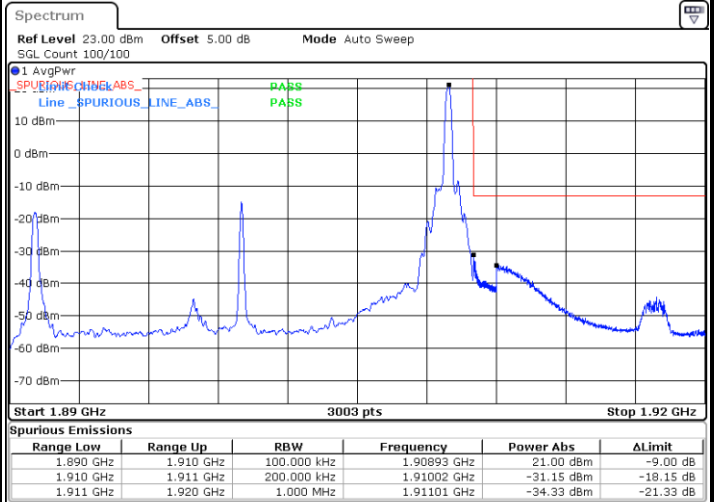
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



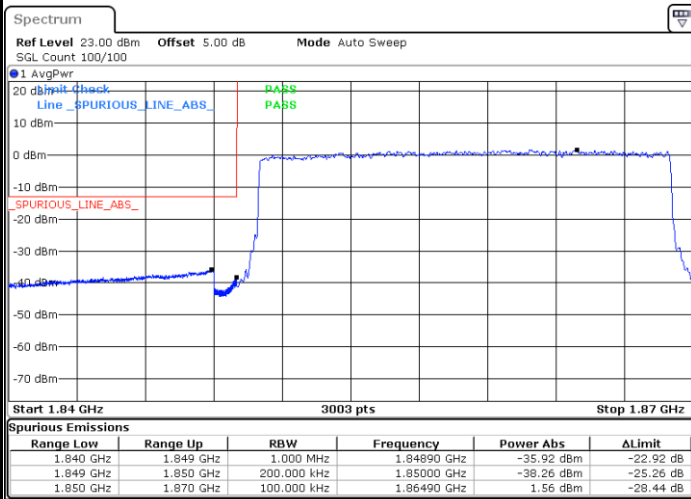
Date: 16.NOV.2020 23:14:42

Highest Band Edge / 1 RB



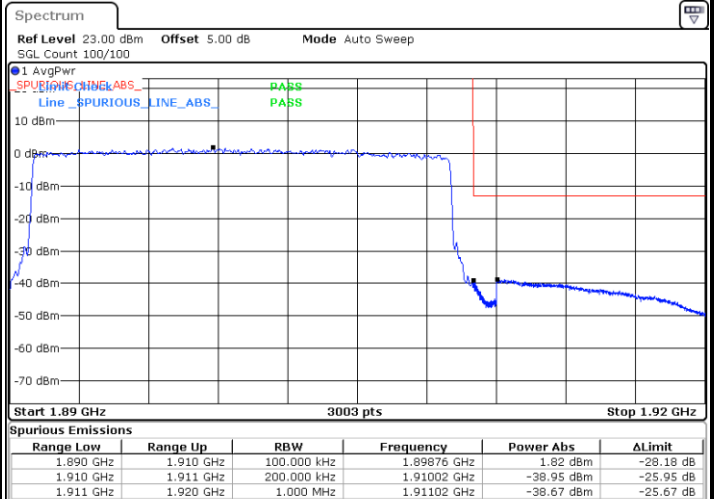
Date: 16.NOV.2020 23:24:08

Lowest Band Edge / Full RB



Date: 16.NOV.2020 23:16:56

Highest Band Edge / Full RB

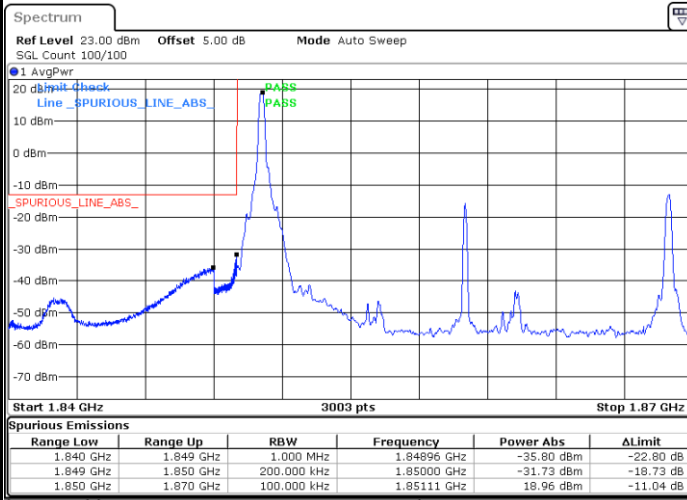


Date: 16.NOV.2020 23:26:23



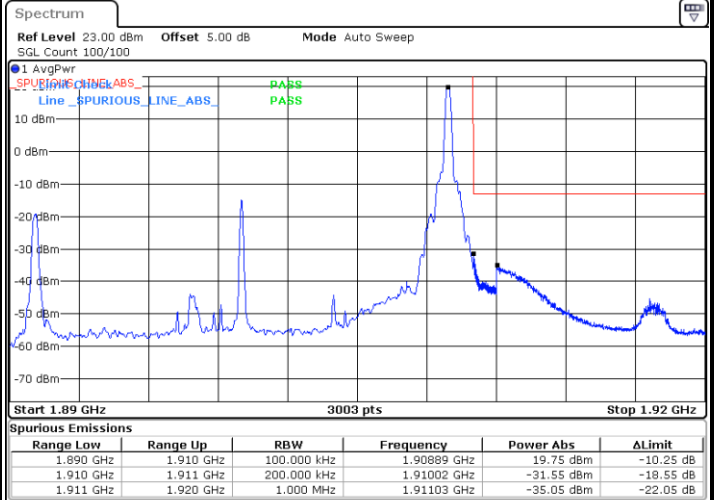
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



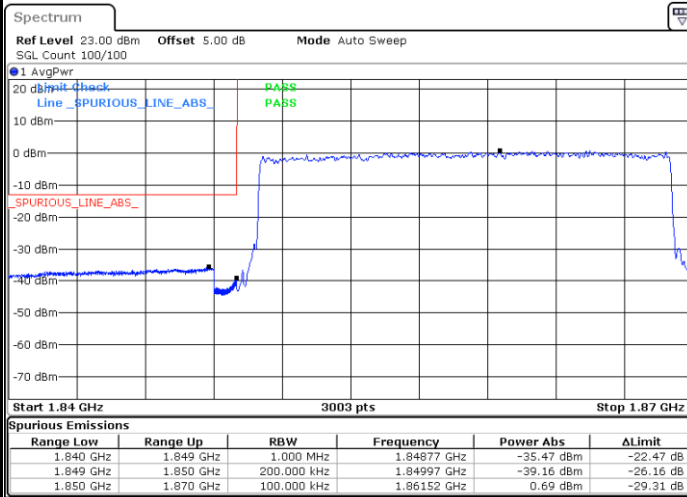
Date: 16.NOV.2020 23:15:49

Highest Band Edge / 1 RB



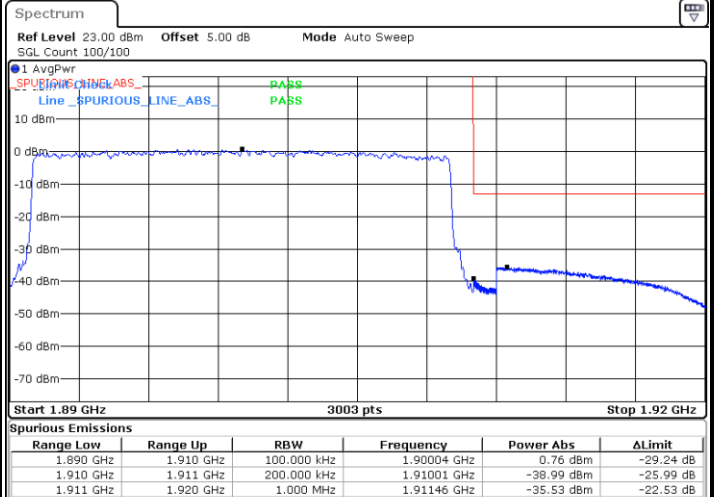
Date: 16.NOV.2020 23:25:15

Lowest Band Edge / Full RB



Date: 16.NOV.2020 23:18:04

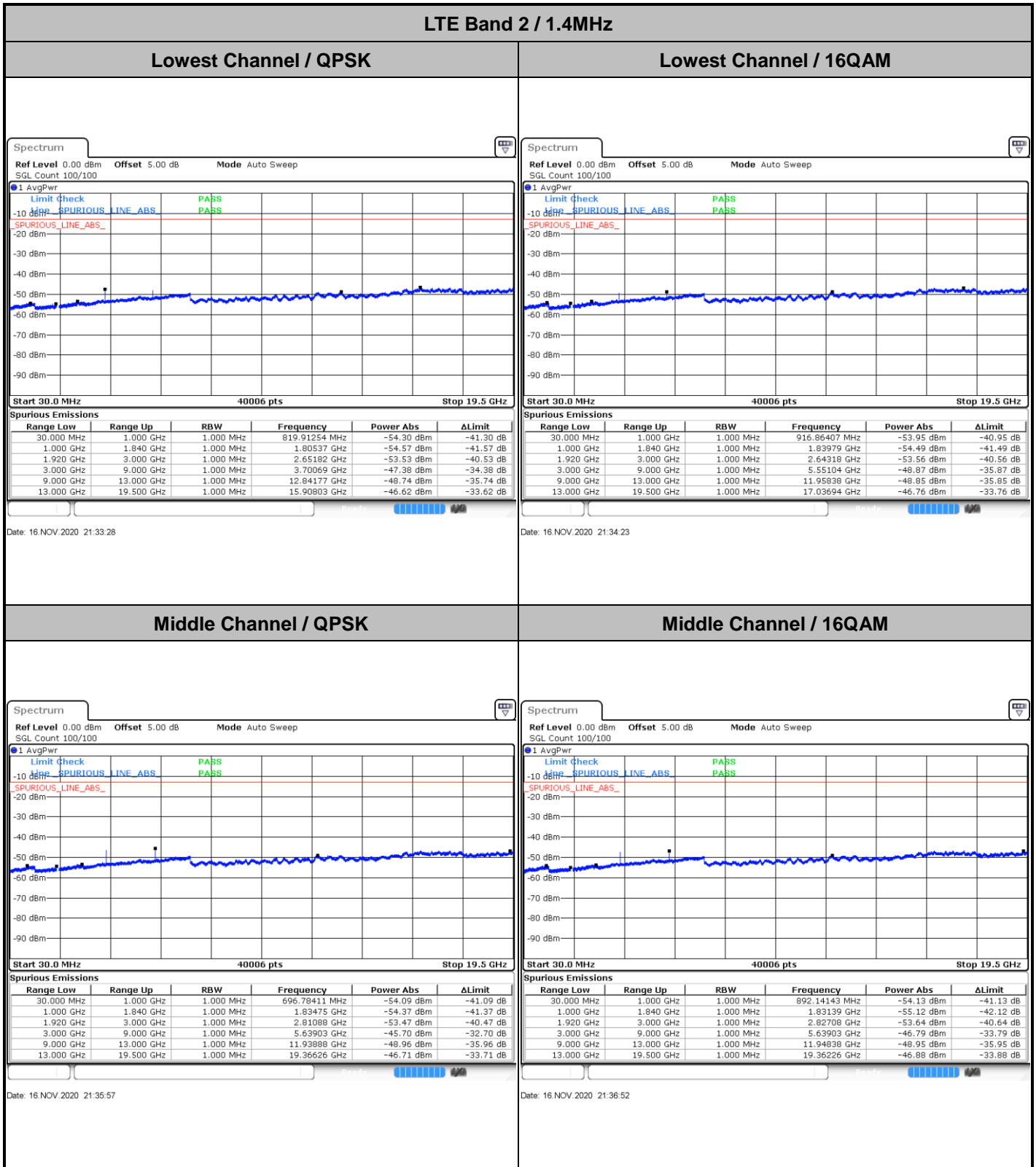
Highest Band Edge / Full RB



Date: 16.NOV.2020 23:27:30



# Conducted Spurious Emission

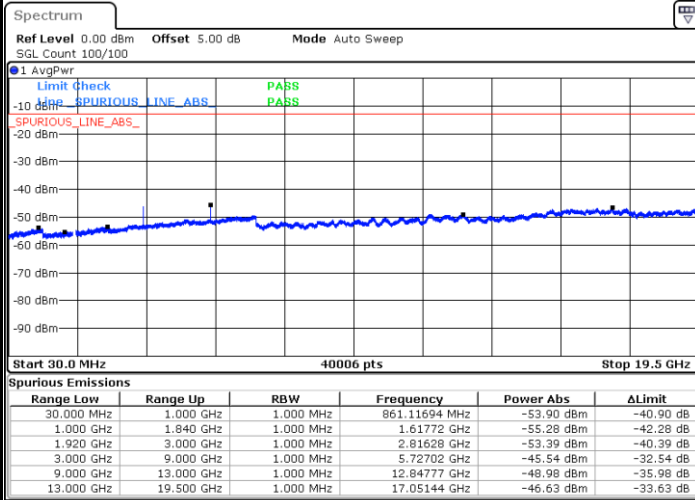






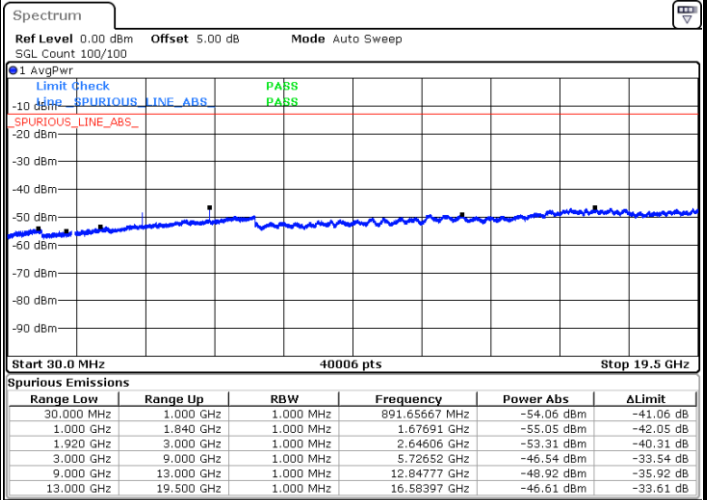
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 16 NOV 2020 21:42:56

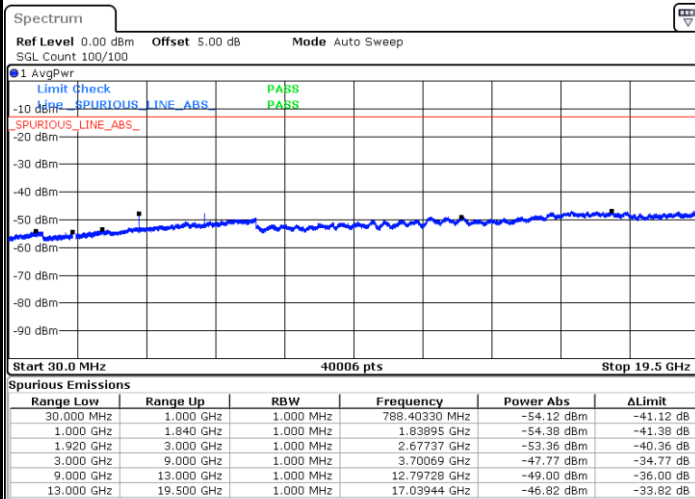
Highest Channel / 16QAM



Date: 16 NOV 2020 21:43:51

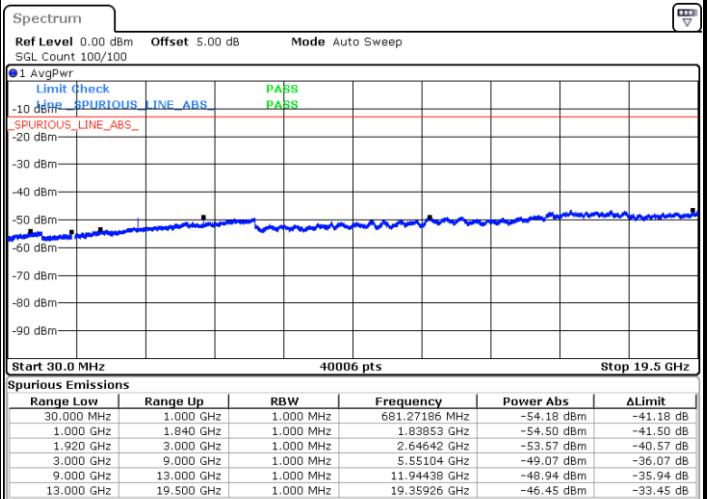
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 16 NOV 2020 21:51:04

Lowest Channel / 16QAM



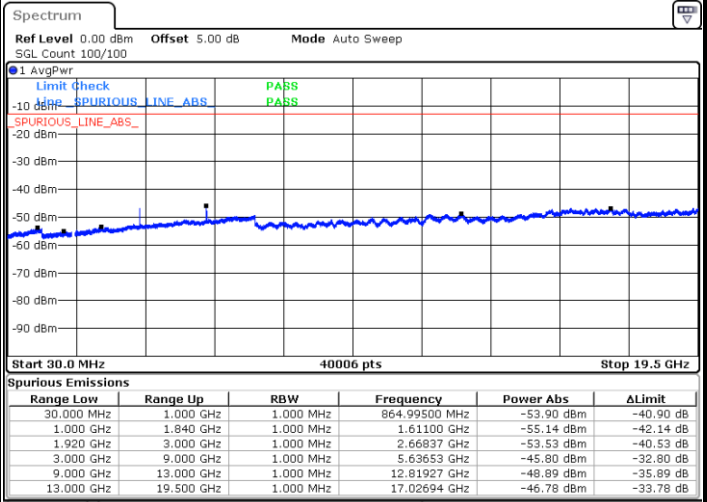
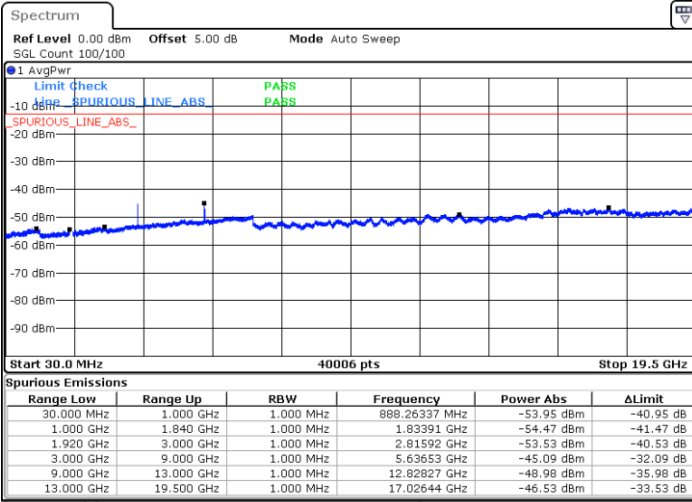
Date: 16 NOV 2020 21:51:58



LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

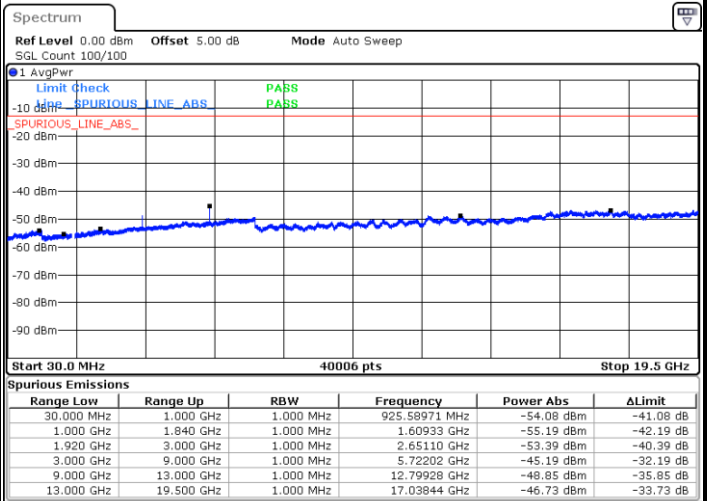
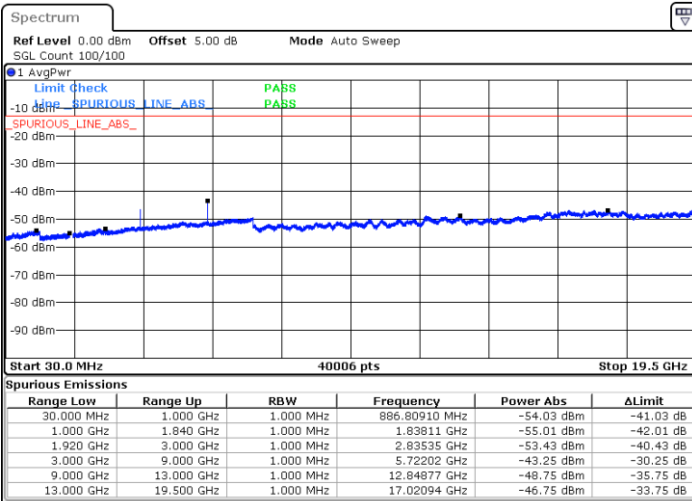


Date: 16.NOV.2020 21:53:33

Date: 16.NOV.2020 21:54:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.NOV.2020 22:00:32

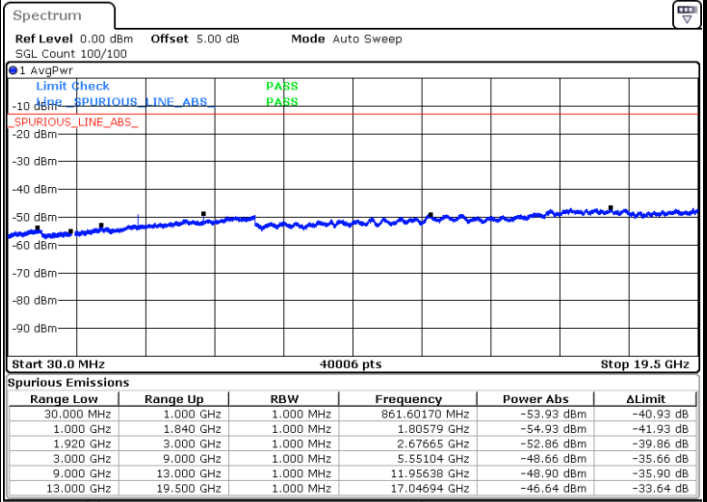
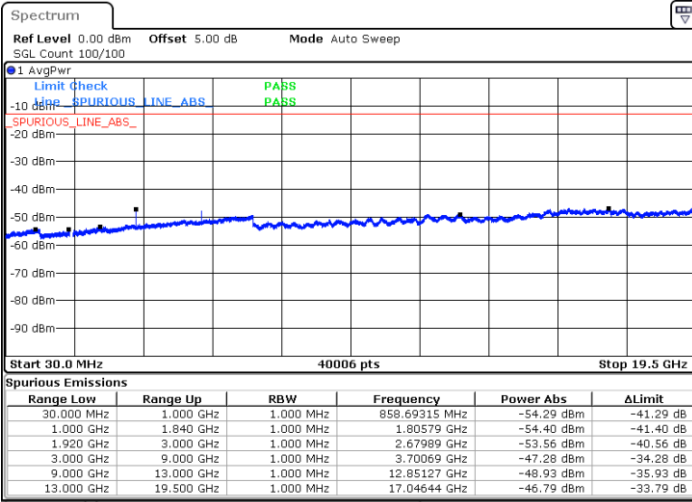
Date: 16.NOV.2020 22:01:27



LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

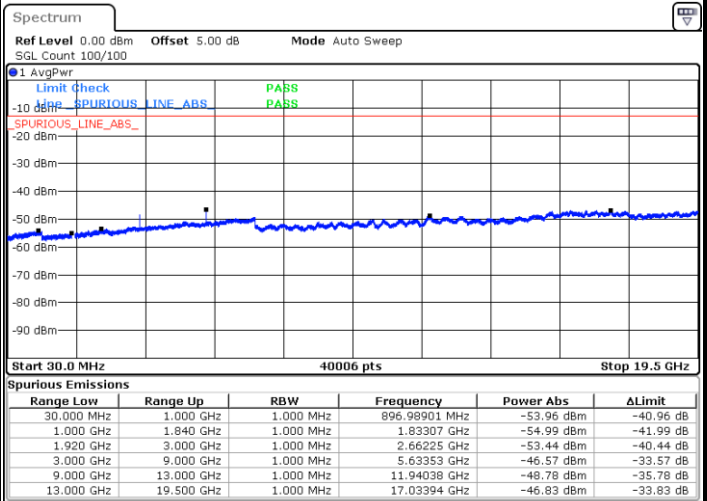
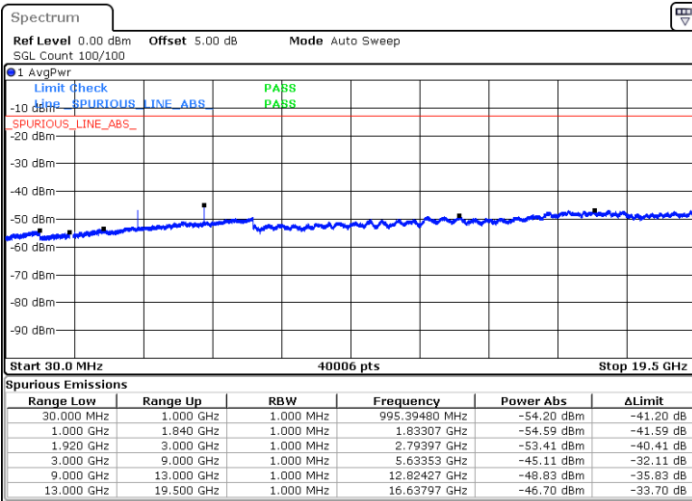


Date: 16.NOV.2020 22:10:12

Date: 16.NOV.2020 22:11:07

Middle Channel / QPSK

Middle Channel / 16QAM



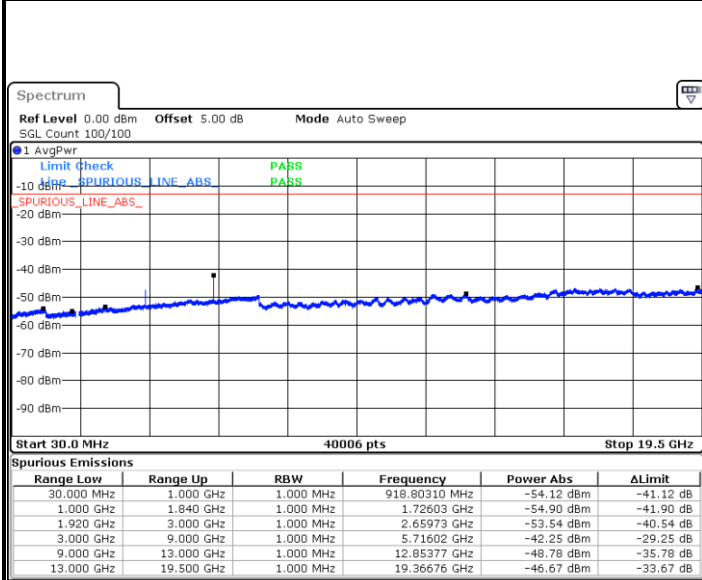
Date: 16.NOV.2020 22:12:41

Date: 16.NOV.2020 22:13:36



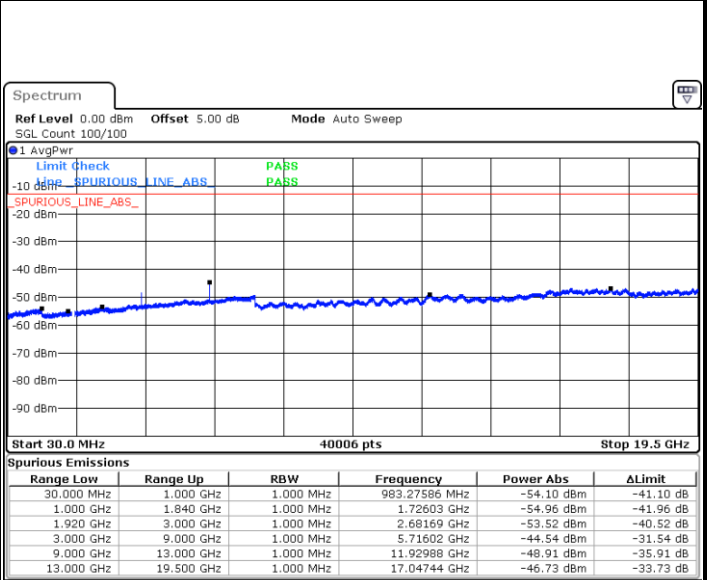
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 16 NOV 2020 22:19:40

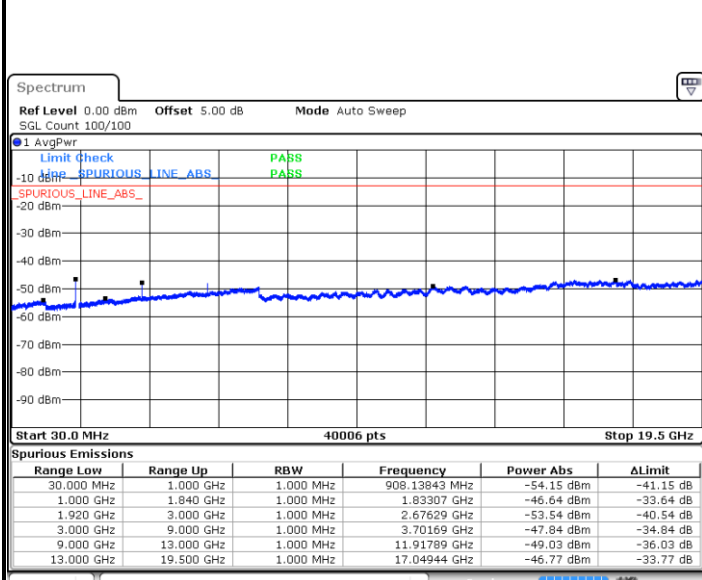
Highest Channel / 16QAM



Date: 16 NOV 2020 22:20:35

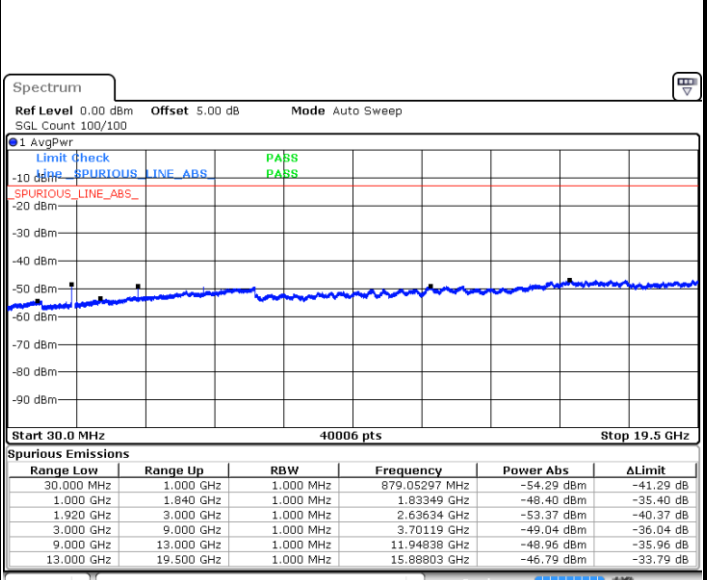
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 16 NOV 2020 22:45:16

Lowest Channel / 16QAM



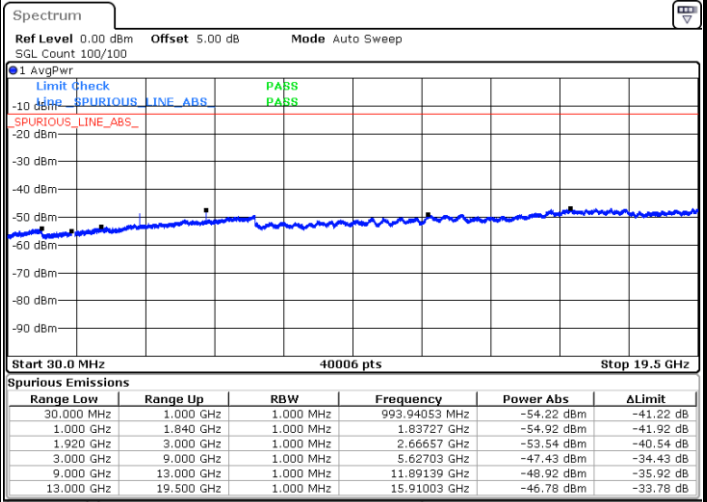
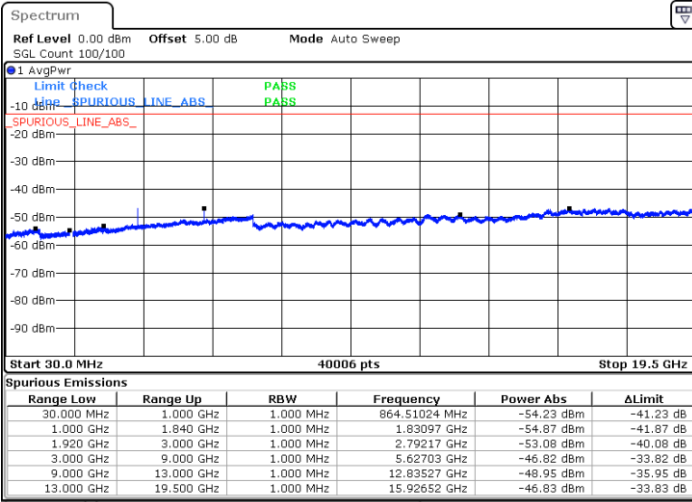
Date: 16 NOV 2020 22:46:11



LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

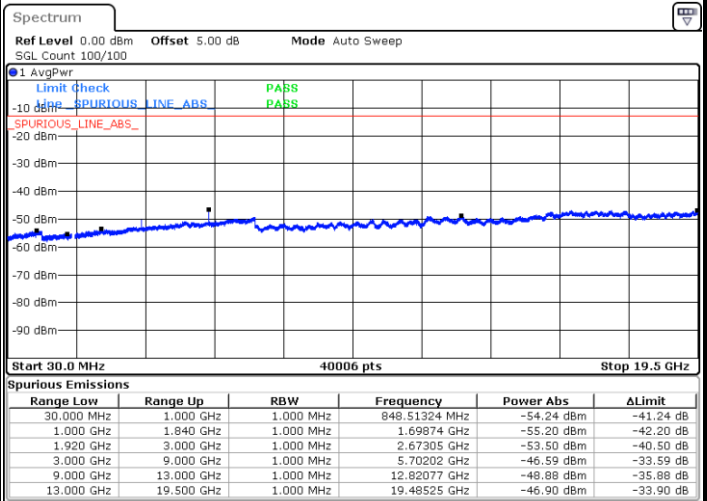
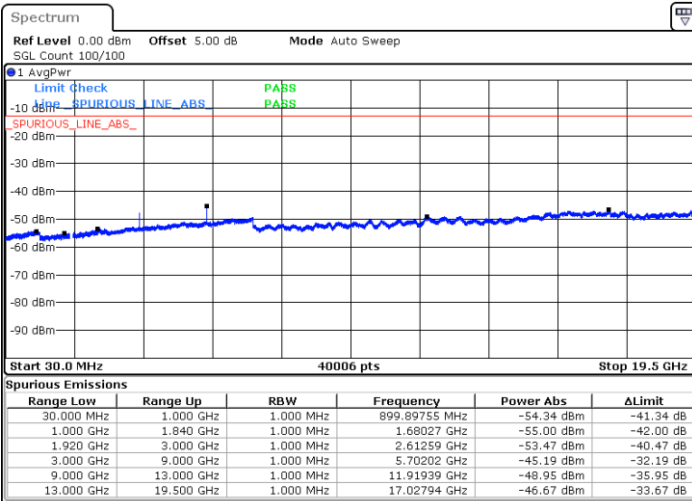


Date: 16.NOV.2020 22:47:45

Date: 16.NOV.2020 22:48:39

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.NOV.2020 22:54:43

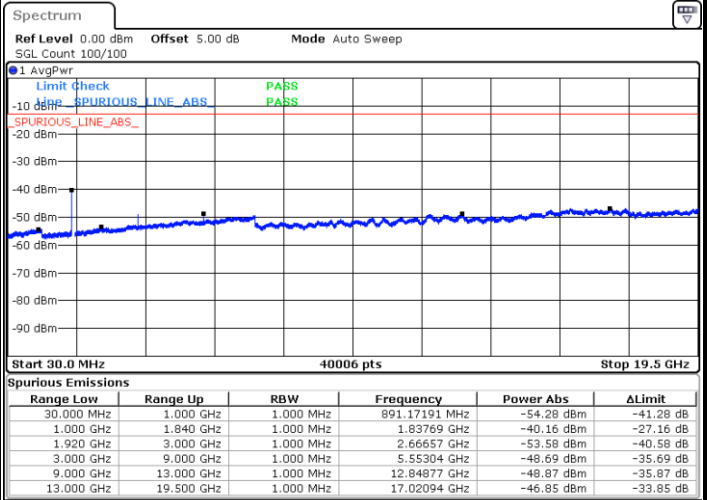
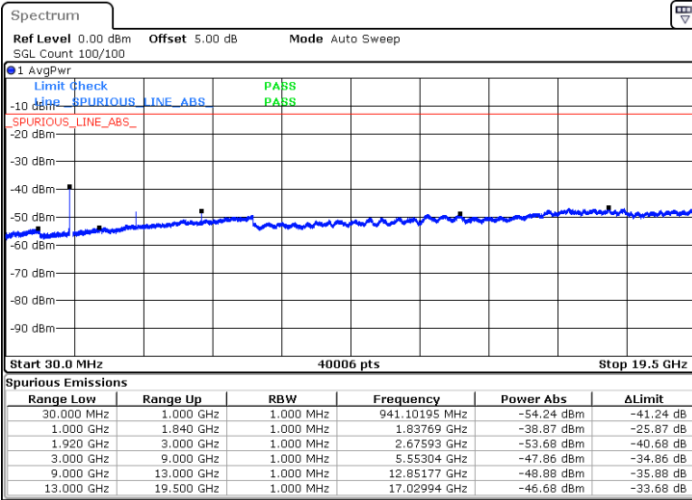
Date: 16.NOV.2020 22:55:37



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

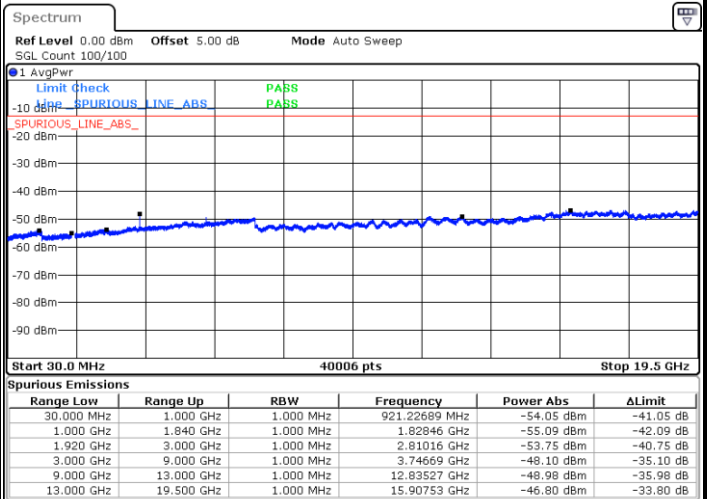
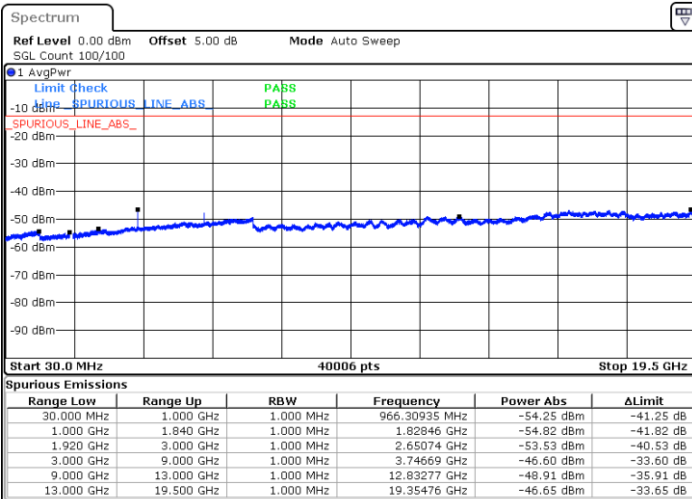


Date: 16.NOV.2020 23:02:03

Date: 16.NOV.2020 23:02:58

Middle Channel / QPSK

Middle Channel / 16QAM



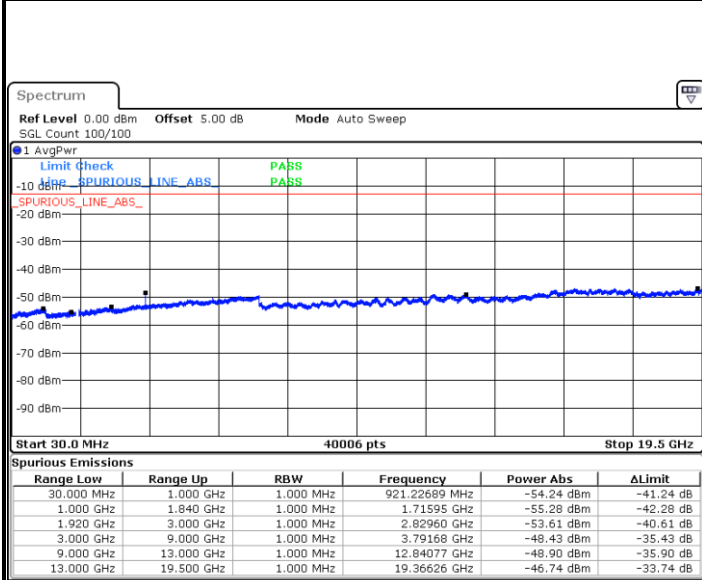
Date: 16.NOV.2020 23:04:32

Date: 16.NOV.2020 23:05:26



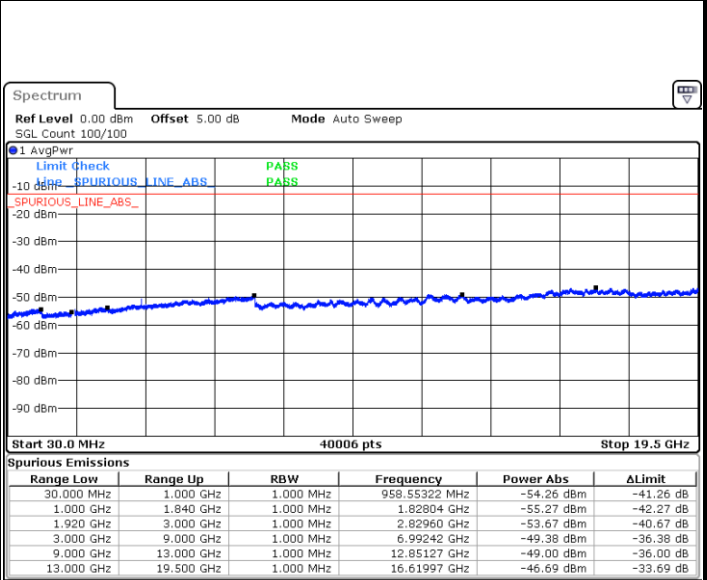
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 16 NOV 2020 23:11:30

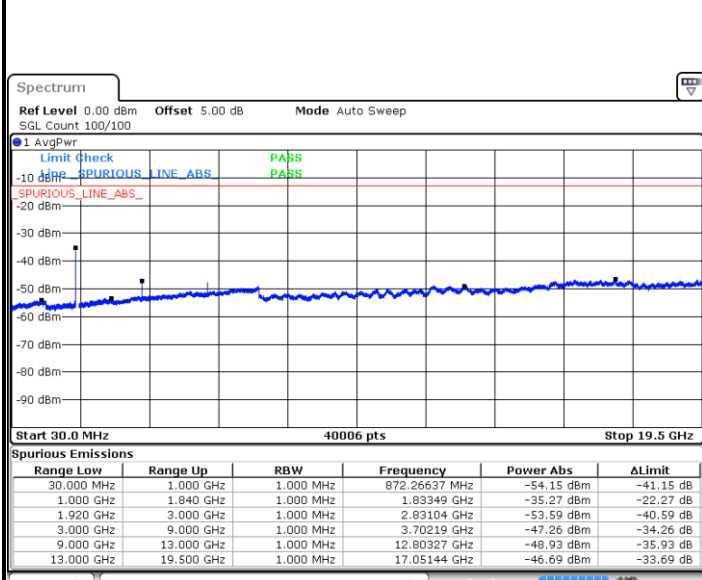
Highest Channel / 16QAM



Date: 16 NOV 2020 23:12:24

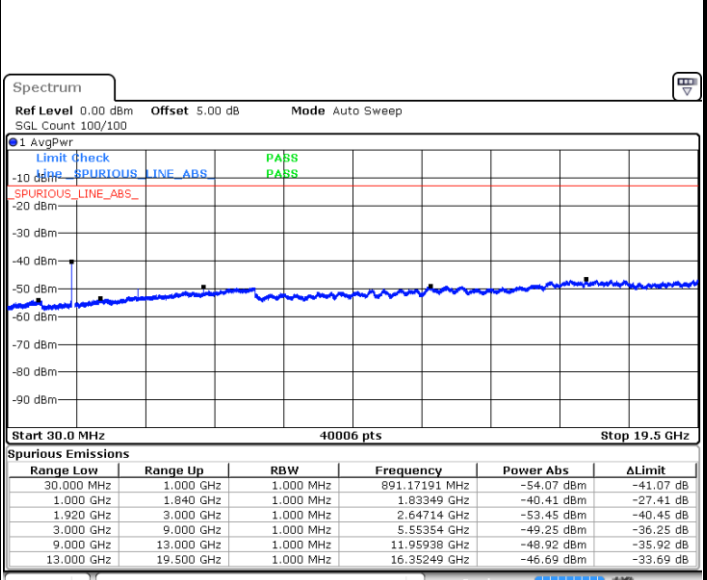
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 16 NOV 2020 23:18:57

Lowest Channel / 16QAM



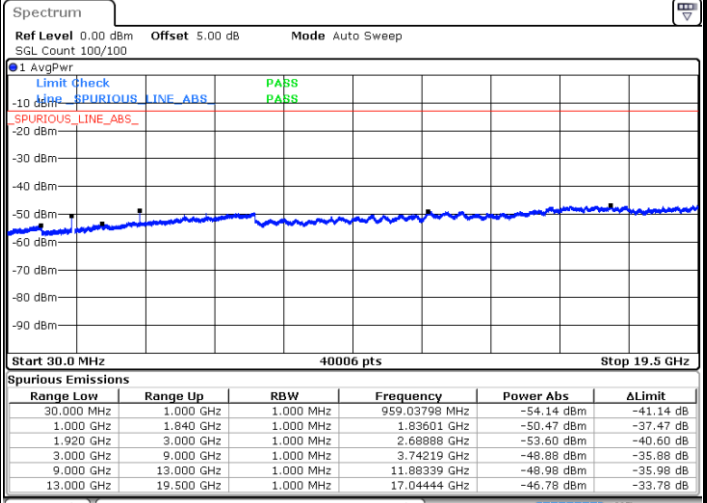
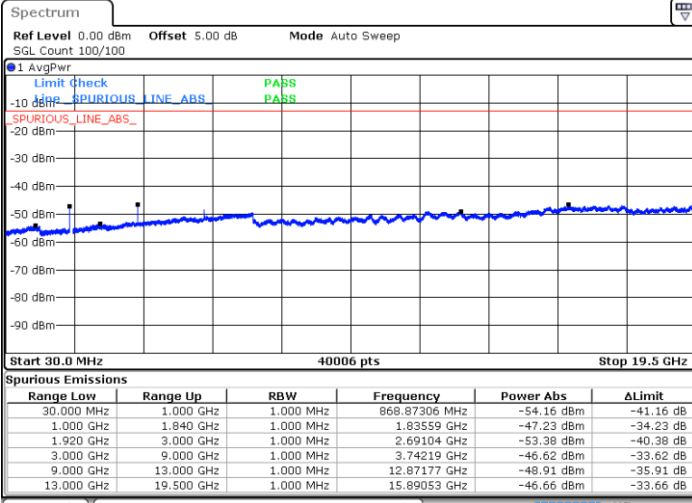
Date: 16 NOV 2020 23:19:52



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

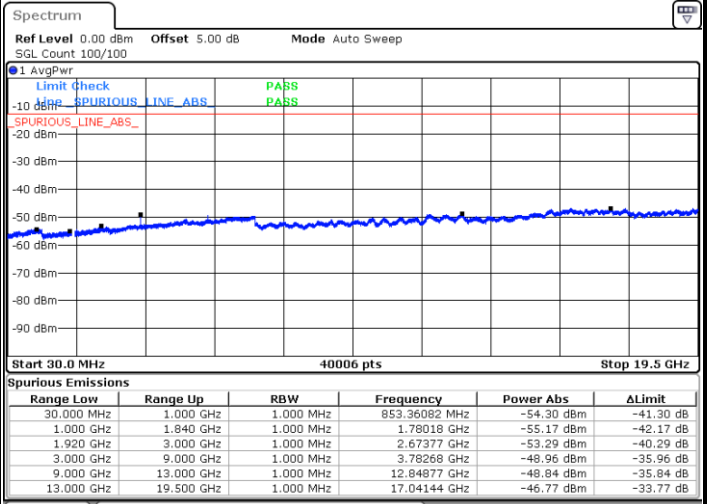
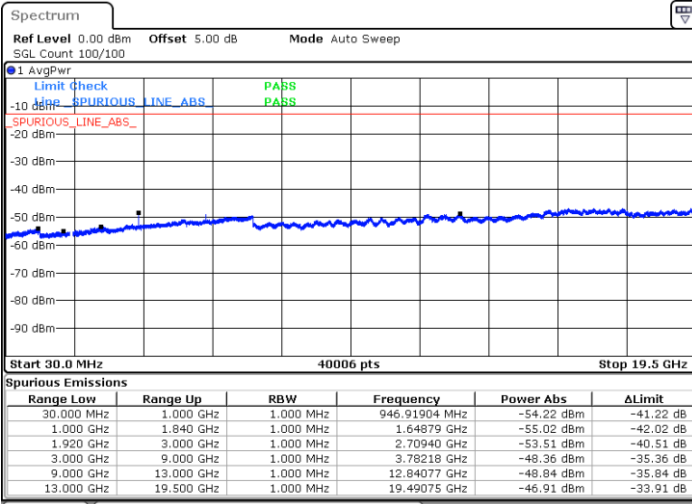


Date: 16.NOV.2020 23:21:26

Date: 16.NOV.2020 23:22:20

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.NOV.2020 23:28:23

Date: 16.NOV.2020 23:29:18





### Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0017	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 4

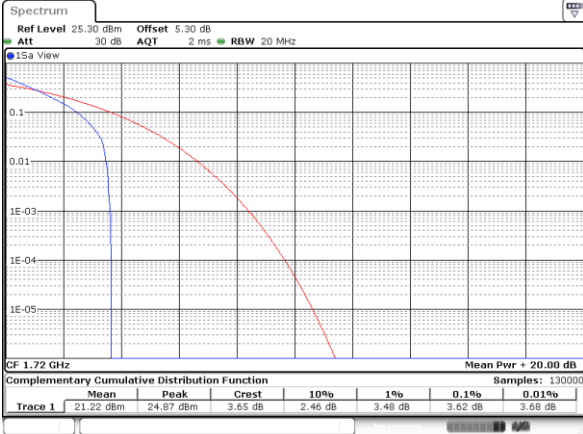
### Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.81	4.52	5.83	<b>PASS</b>
Middle CH	4.35	4.84	5.28	5.91	
Highest CH	4.58	4.78	5.48	5.83	



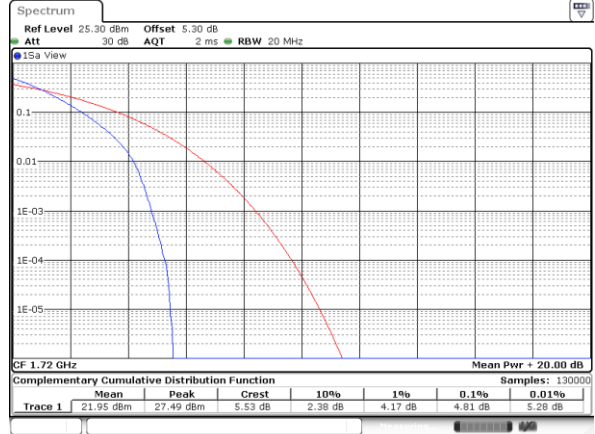
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



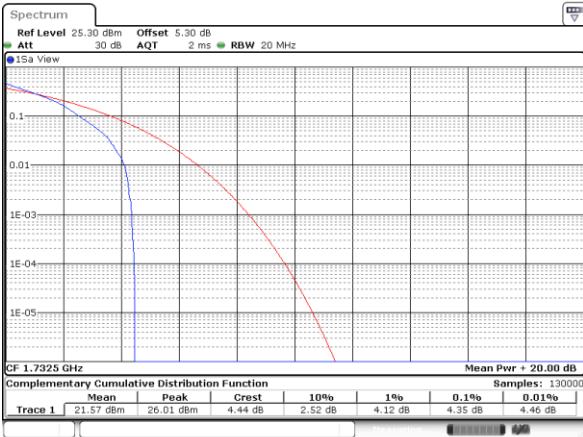
Date: 17.NOV.2020 19:11:30

Lowest Channel / Full RB



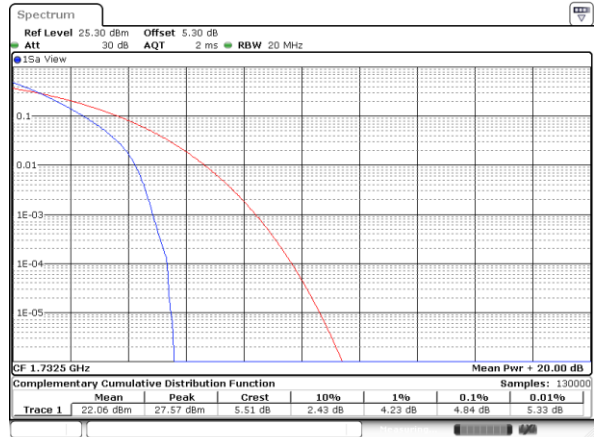
Date: 17.NOV.2020 19:11:16

Middle Channel / 1RB



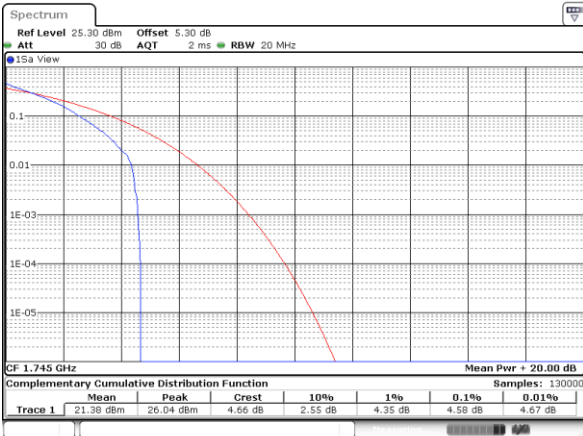
Date: 17.NOV.2020 19:11:58

Middle Channel / Full RB



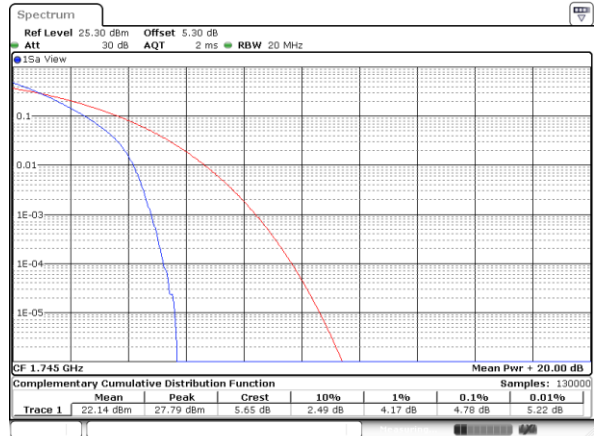
Date: 17.NOV.2020 19:12:16

Highest Channel / 1RB



Date: 17.NOV.2020 19:13:52

Highest Channel / Full RB

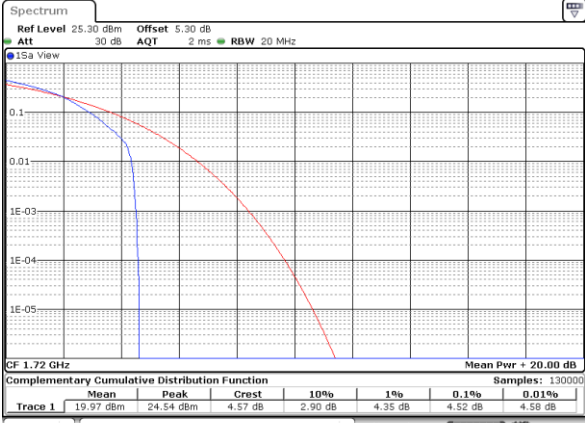


Date: 17.NOV.2020 19:13:36



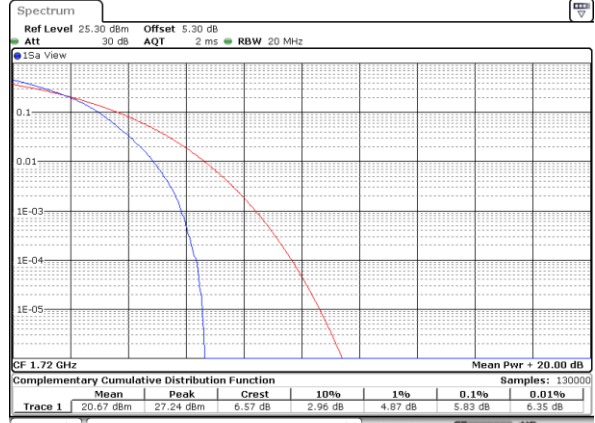
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



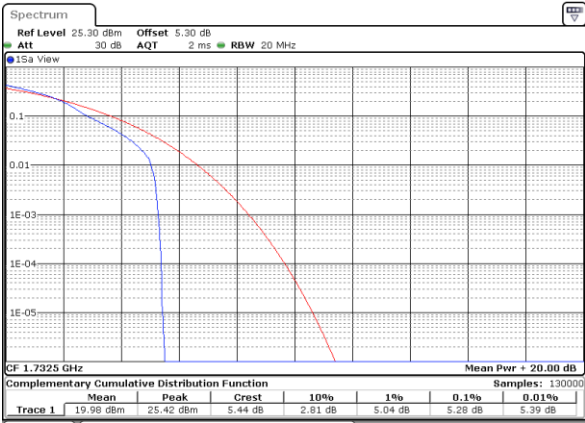
Date: 17 NOV 2020 16:46:49

Lowest Channel / Full RB



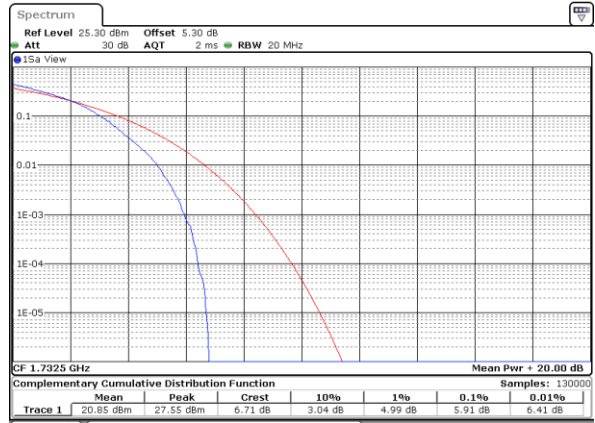
Date: 17 NOV 2020 16:46:59

Middle Channel / 1RB



Date: 17 NOV 2020 16:47:10

Middle Channel / Full RB



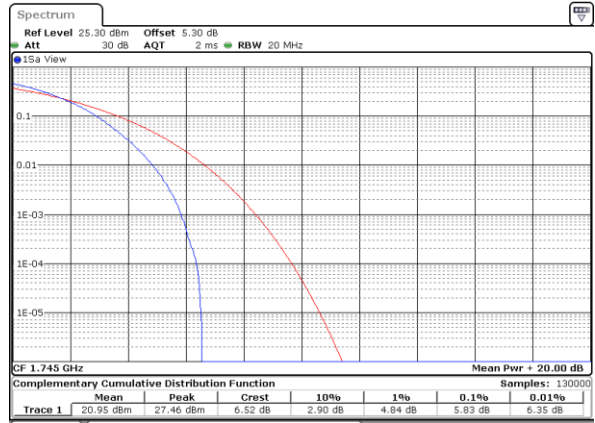
Date: 17 NOV 2020 16:47:19

Highest Channel / 1RB



Date: 17 NOV 2020 16:47:29

Highest Channel / Full RB



Date: 17 NOV 2020 16:47:39



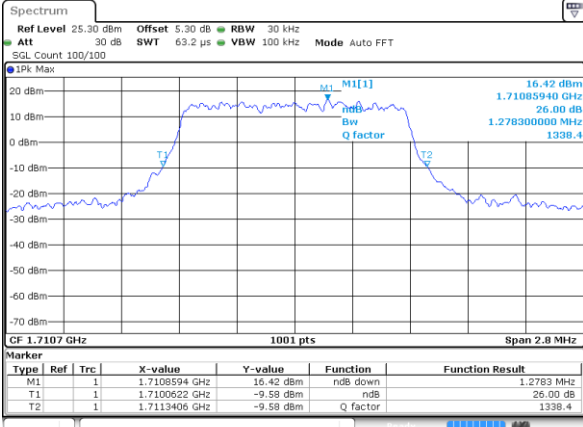
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.27	3.03	3.02	4.95	4.88	9.65	9.95	14.09	14.60	20.18	20.26
Middle CH	1.27	1.27	2.97	3.02	4.94	4.91	9.99	9.83	14.30	14.45	20.10	20.10
Highest CH	1.29	1.29	2.99	2.99	4.89	4.87	9.75	9.73	14.36	14.39	20.10	20.34



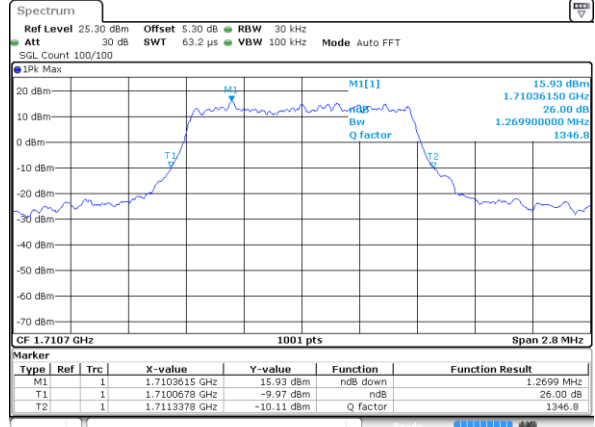
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



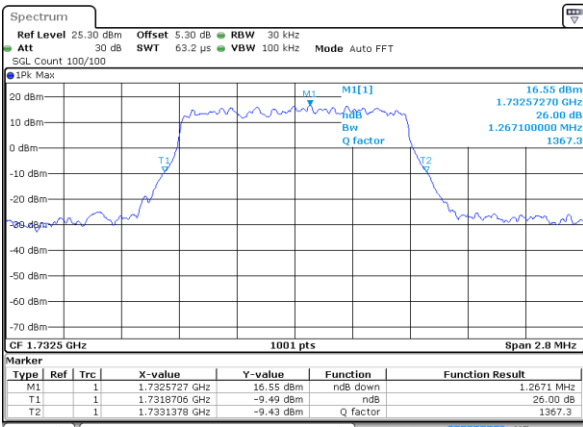
Date: 17 NOV 2020 14:55:07

Lowest Channel / 1.4MHz / 16QAM



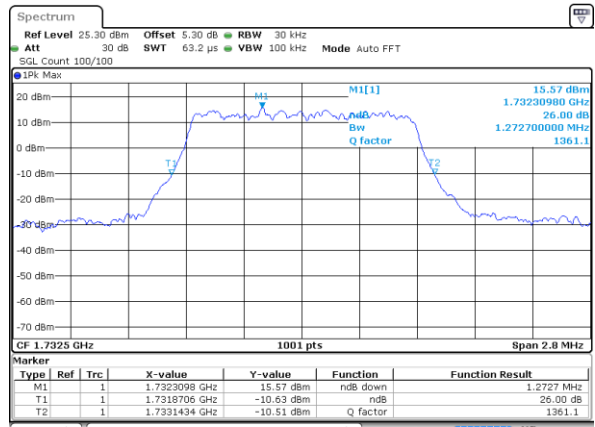
Date: 17 NOV 2020 14:55:17

Middle Channel / 1.4MHz / QPSK



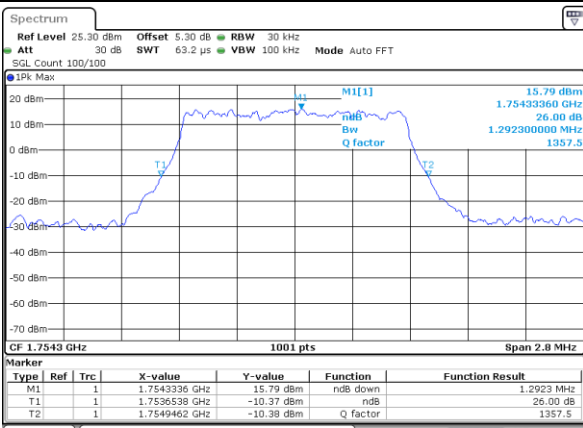
Date: 17 NOV 2020 15:02:06

Middle Channel / 1.4MHz / 16QAM



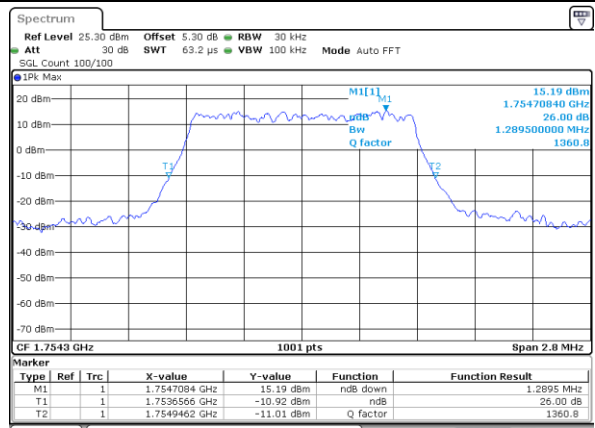
Date: 17 NOV 2020 15:02:16

Highest Channel / 1.4MHz / QPSK



Date: 17 NOV 2020 15:04:34

Highest Channel / 1.4MHz / 16QAM

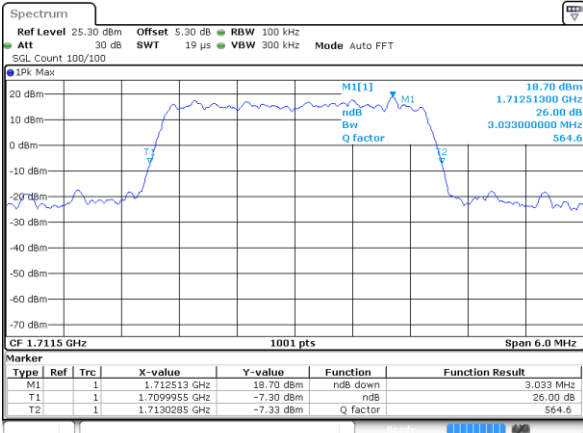


Date: 17 NOV 2020 15:04:44



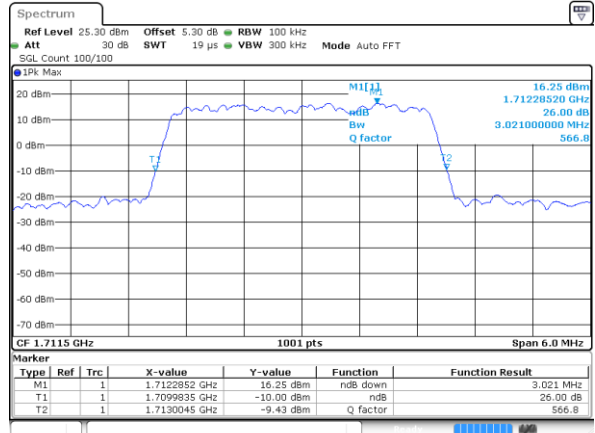
LTE Band 4

Lowest Channel / 3MHz / QPSK



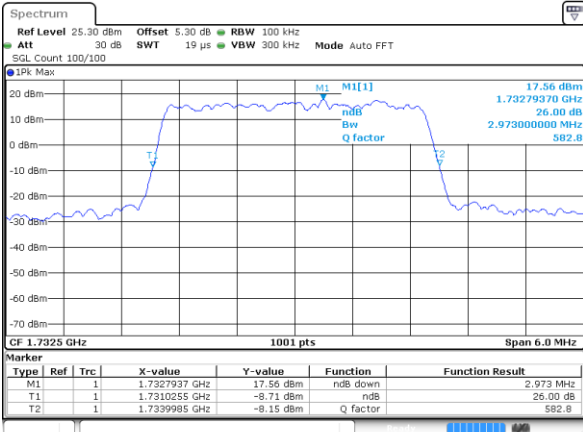
Date: 17 NOV 2020 15:14:16

Lowest Channel / 3MHz / 16QAM



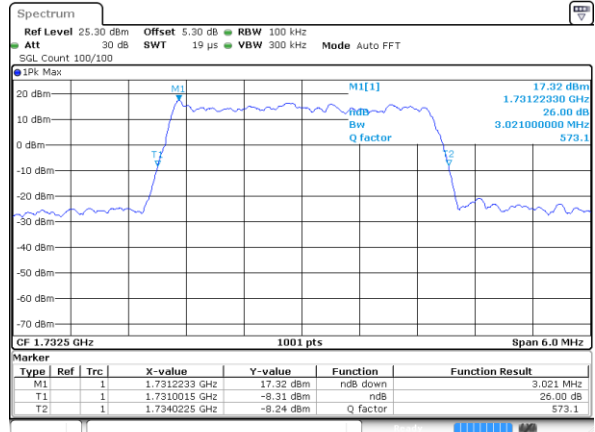
Date: 17 NOV 2020 15:14:26

Middle Channel / 3MHz / QPSK



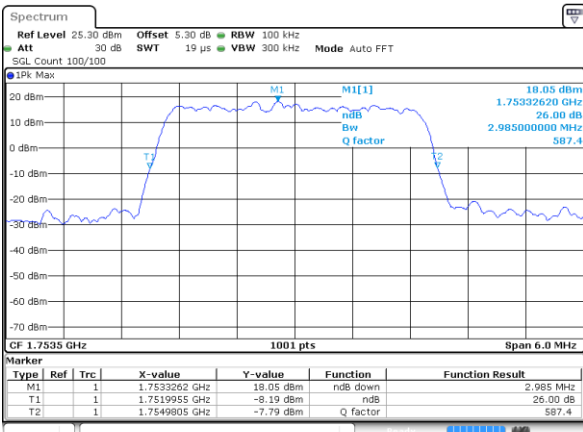
Date: 17 NOV 2020 15:21:15

Middle Channel / 3MHz / 16QAM



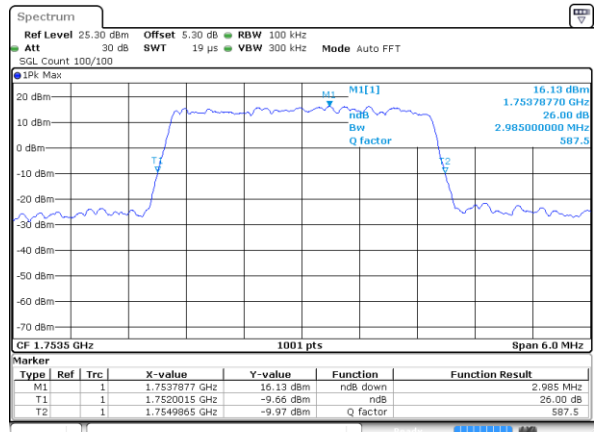
Date: 17 NOV 2020 15:21:25

Highest Channel / 3MHz / QPSK



Date: 17 NOV 2020 15:23:43

Highest Channel / 3MHz / 16QAM

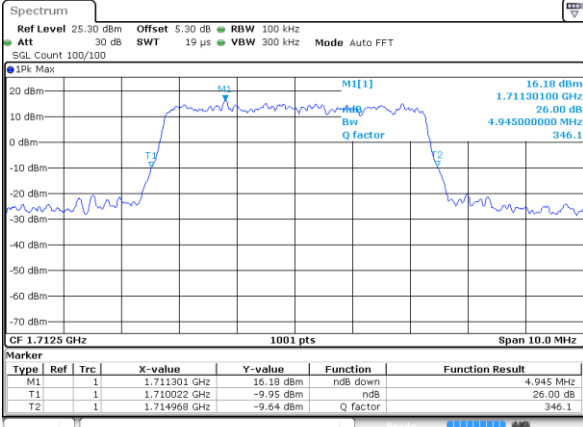


Date: 17 NOV 2020 15:23:53



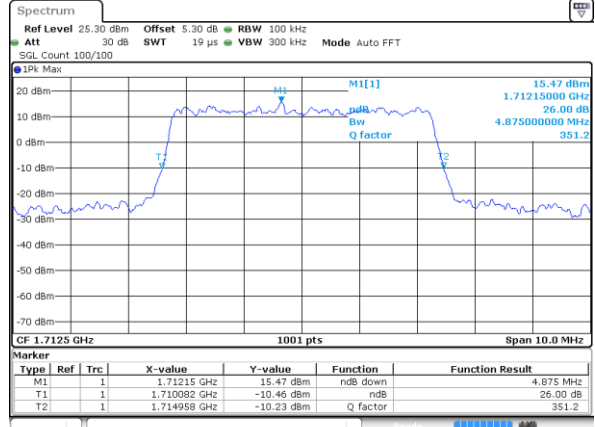
LTE Band 4

Lowest Channel / 5MHz / QPSK



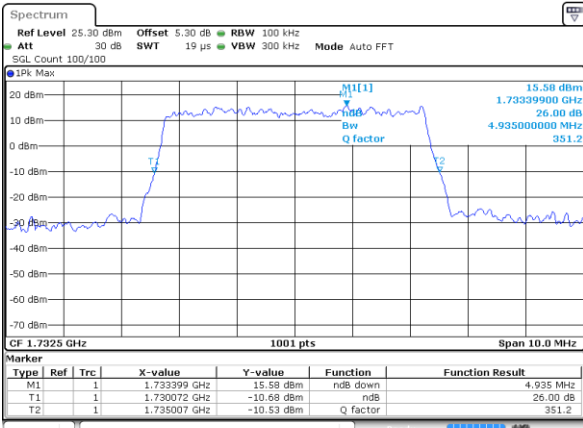
Date: 17.NOV.2020 15:35:14

Lowest Channel / 5MHz / 16QAM



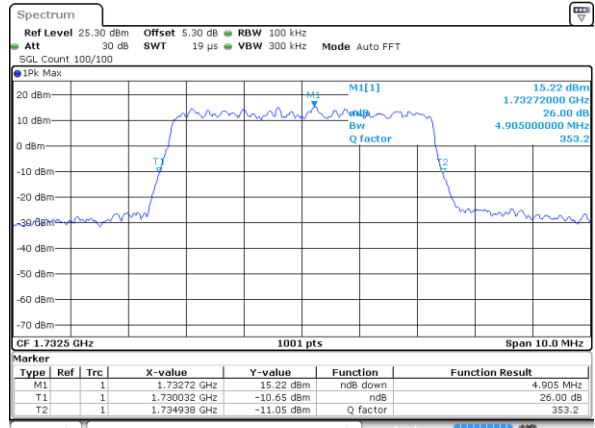
Date: 17.NOV.2020 15:35:24

Middle Channel / 5MHz / QPSK



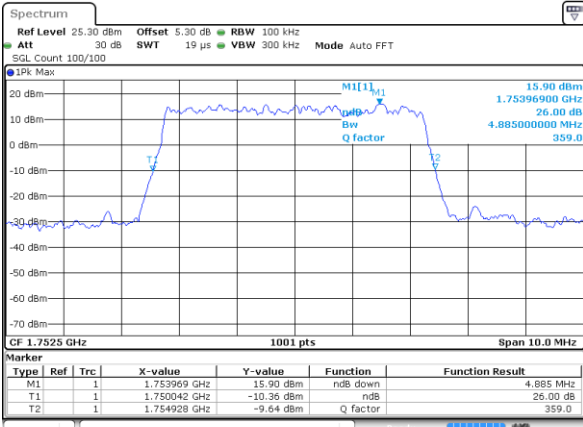
Date: 17.NOV.2020 15:42:12

Middle Channel / 5MHz / 16QAM



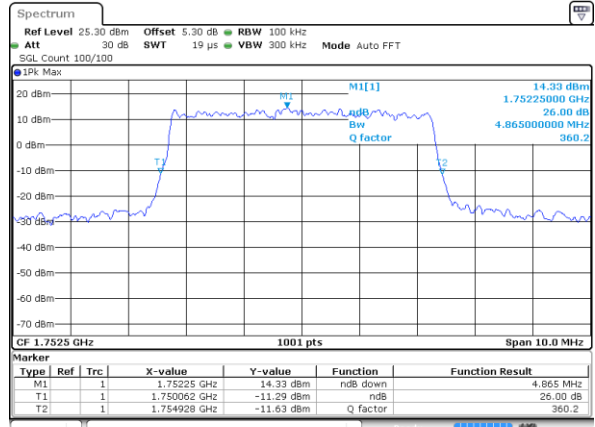
Date: 17.NOV.2020 15:42:22

Highest Channel / 5MHz / QPSK



Date: 17.NOV.2020 15:44:41

Highest Channel / 5MHz / 16QAM



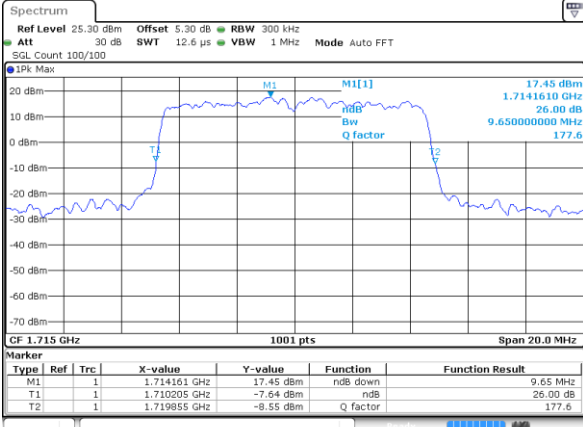
Date: 17.NOV.2020 15:44:51





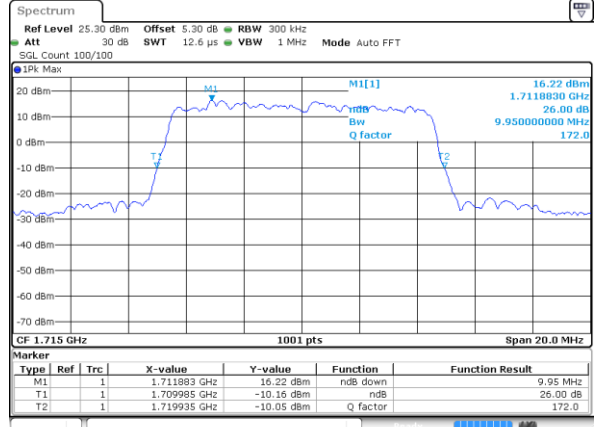
LTE Band 4

Lowest Channel / 10MHz / QPSK



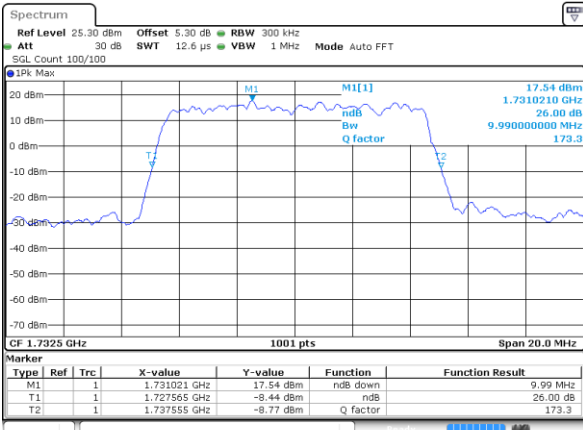
Date: 17 NOV 2020 15:53:16

Lowest Channel / 10MHz / 16QAM



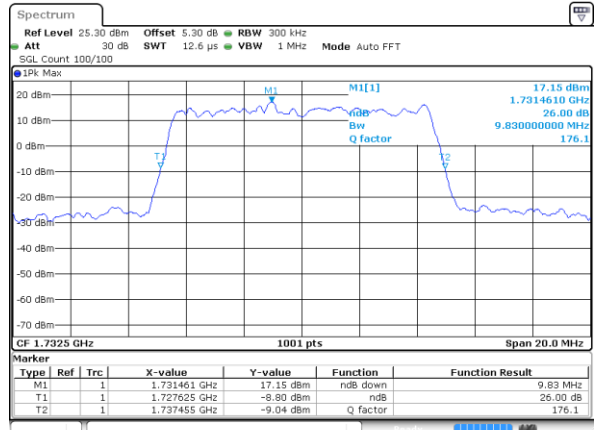
Date: 17 NOV 2020 15:53:25

Middle Channel / 10MHz / QPSK



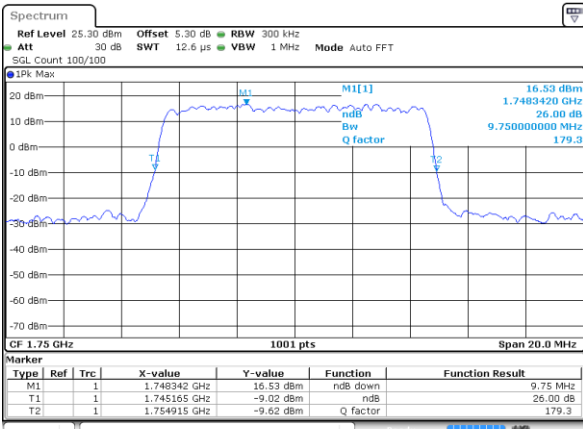
Date: 17 NOV 2020 16:00:14

Middle Channel / 10MHz / 16QAM



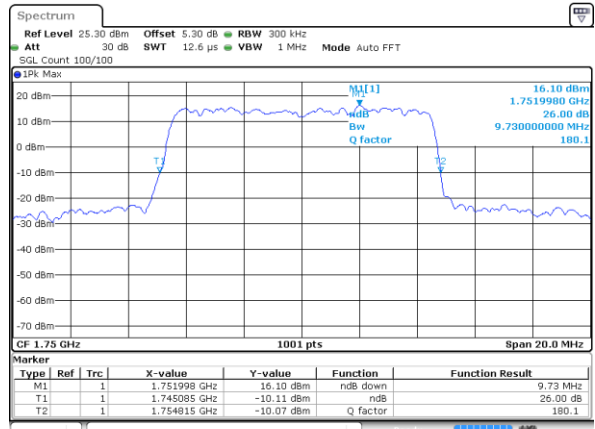
Date: 17 NOV 2020 16:00:24

Highest Channel / 10MHz / QPSK



Date: 17 NOV 2020 16:02:42

Highest Channel / 10MHz / 16QAM



Date: 17 NOV 2020 16:02:52