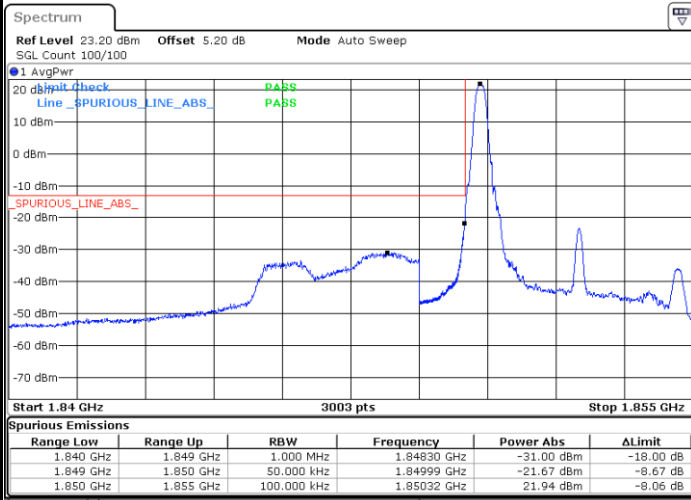




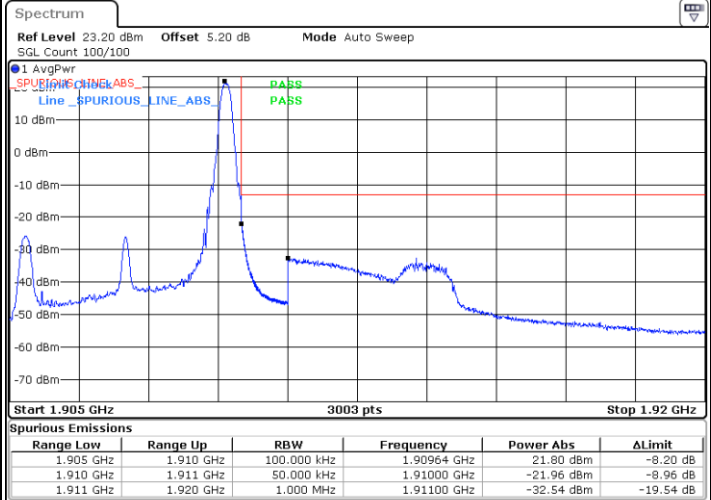
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB



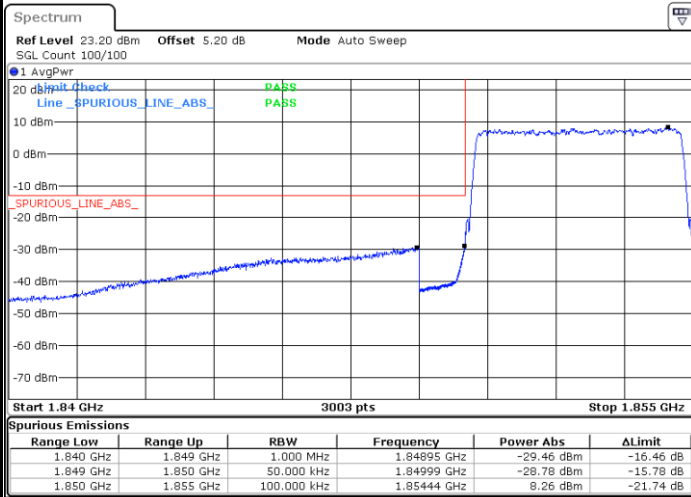
Date: 15 JAN 2020 18:26:33

Highest Band Edge / 1 RB



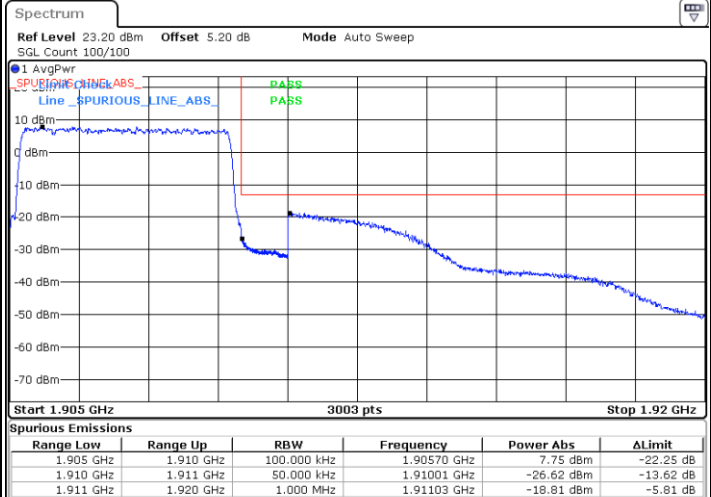
Date: 15 JAN 2020 18:36:01

Lowest Band Edge / Full RB



Date: 15 JAN 2020 18:28:48

Highest Band Edge / Full RB

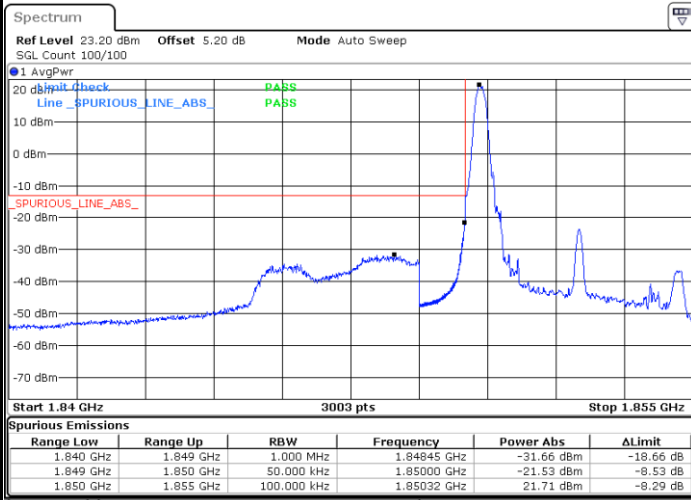


Date: 15 JAN 2020 18:38:16



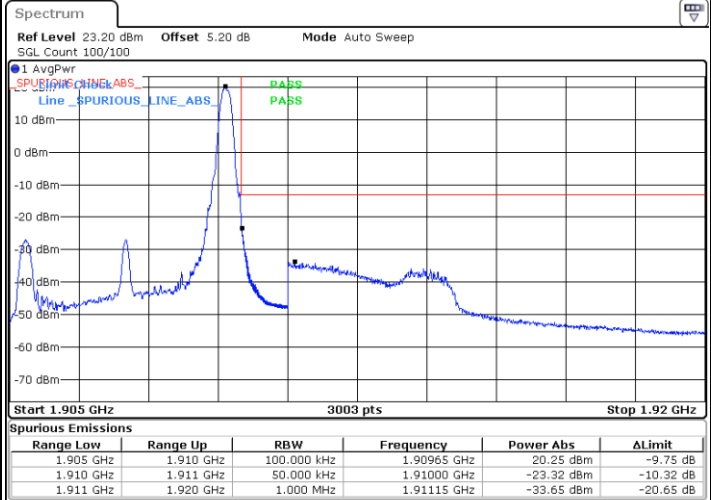
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



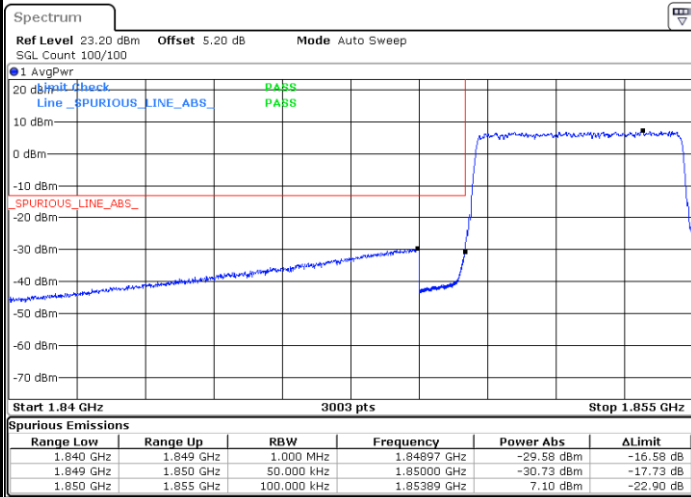
Date: 15 JAN 2020 18:27:41

Highest Band Edge / 1 RB



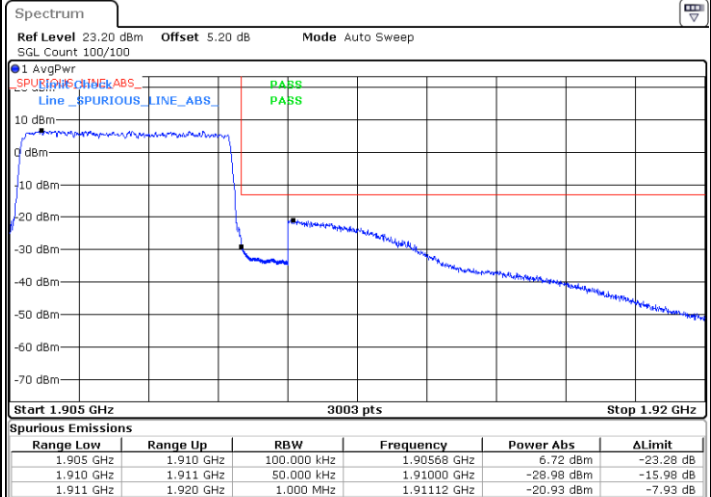
Date: 15 JAN 2020 18:37:09

Lowest Band Edge / Full RB



Date: 15 JAN 2020 18:29:55

Highest Band Edge / Full RB

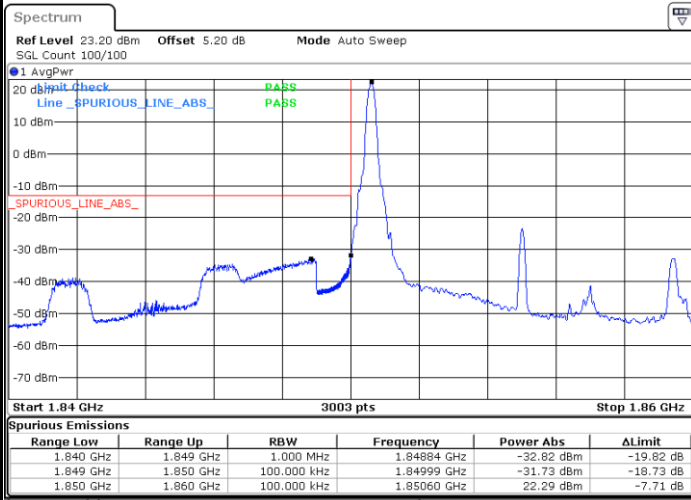


Date: 15 JAN 2020 18:39:24



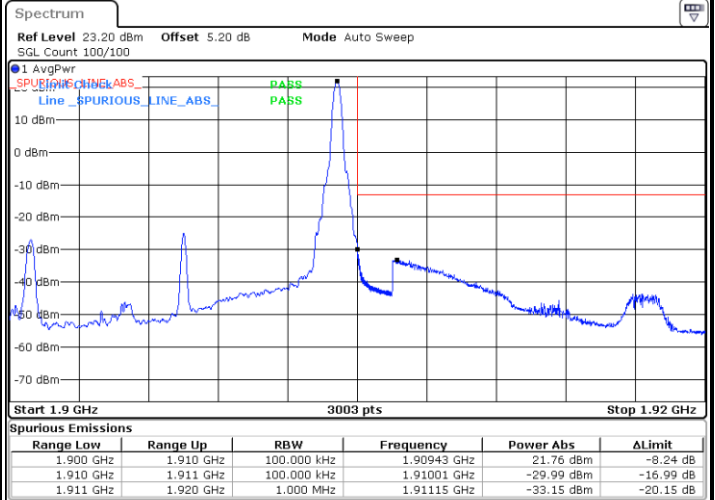
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



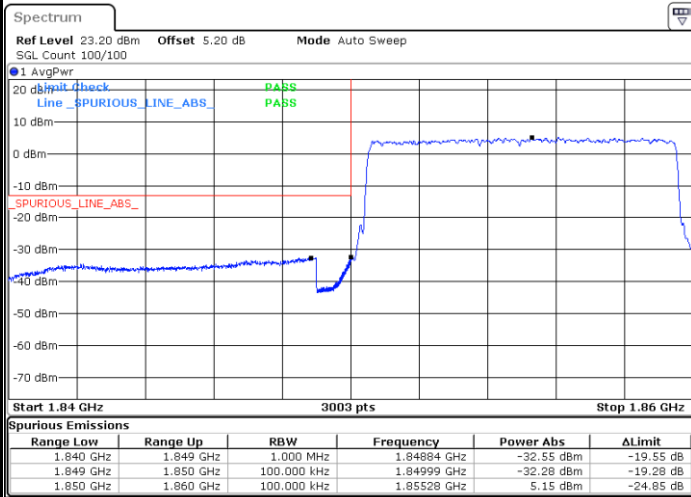
Date: 15 JAN 2020 18:43:00

Highest Band Edge / 1 RB



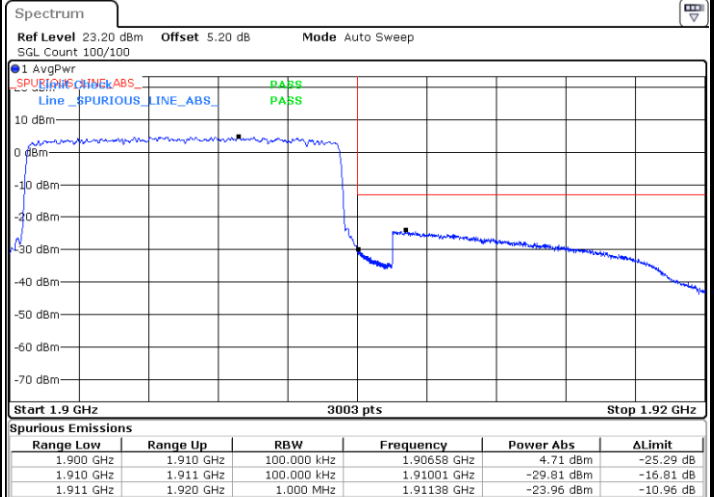
Date: 15 JAN 2020 19:50:46

Lowest Band Edge / Full RB



Date: 15 JAN 2020 18:45:15

Highest Band Edge / Full RB

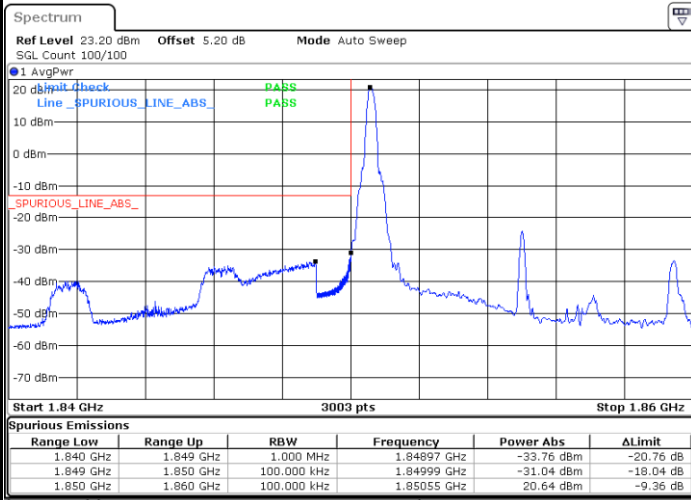


Date: 15 JAN 2020 19:53:01



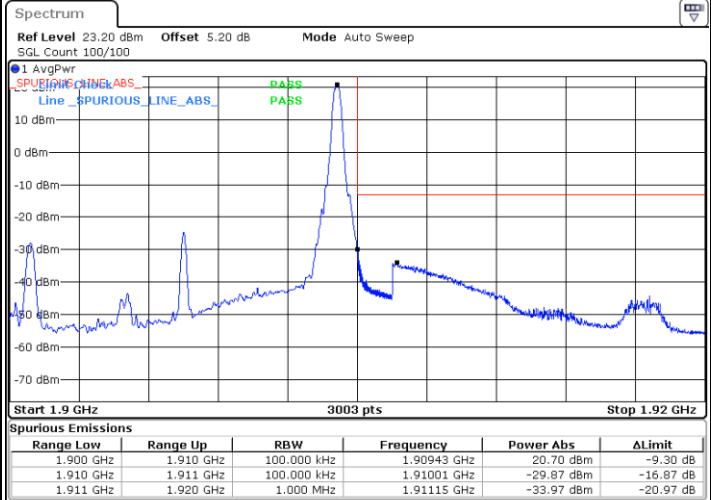
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



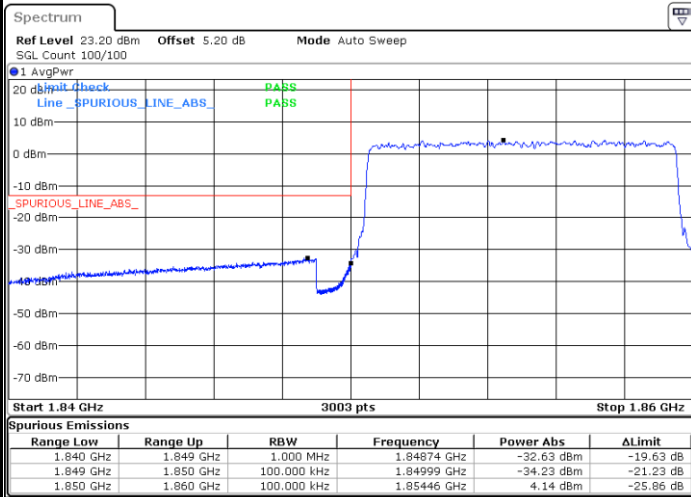
Date: 15 JAN 2020 18:44:08

Highest Band Edge / 1 RB



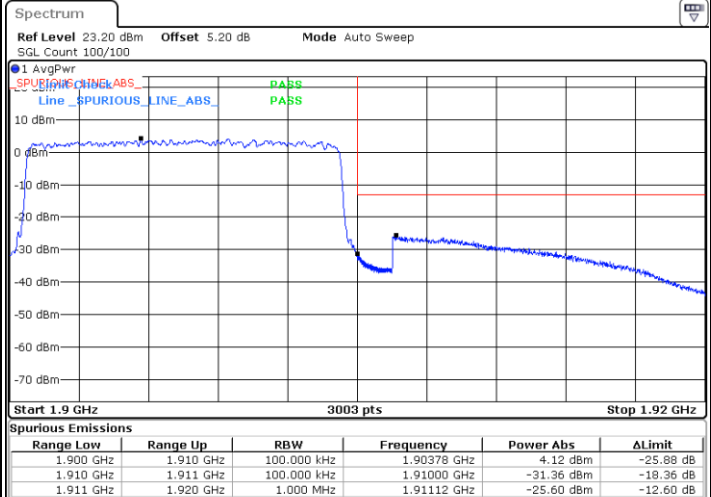
Date: 15 JAN 2020 19:51:54

Lowest Band Edge / Full RB



Date: 15 JAN 2020 18:46:23

Highest Band Edge / Full RB

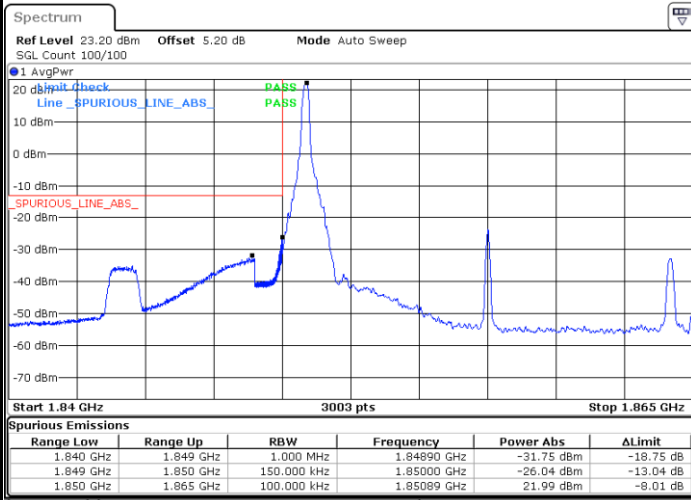


Date: 15 JAN 2020 19:54:09



LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



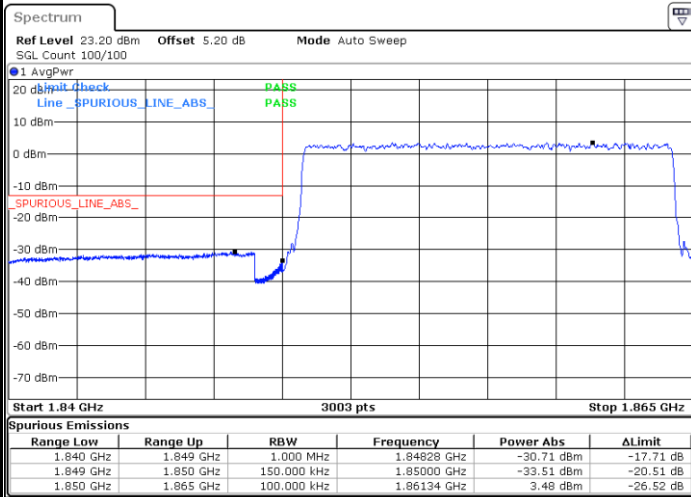
Date: 15 JAN 2020 19:57:45

Highest Band Edge / 1 RB



Date: 15 JAN 2020 20:07:14

Lowest Band Edge / Full RB



Date: 15 JAN 2020 20:00:00

Highest Band Edge / Full RB

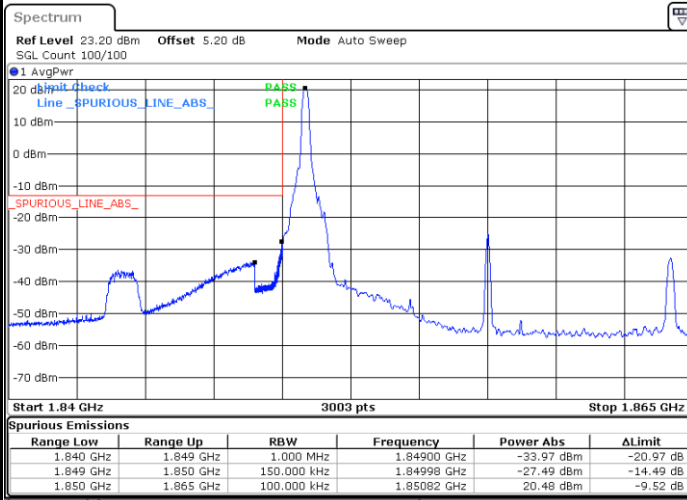


Date: 15 JAN 2020 20:09:28



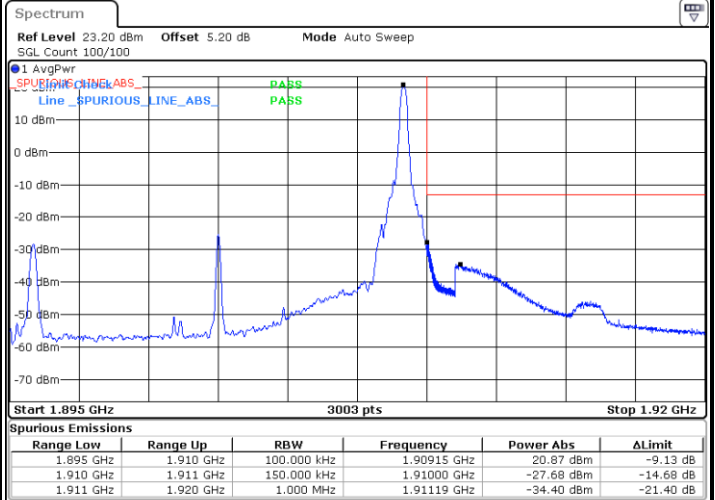
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



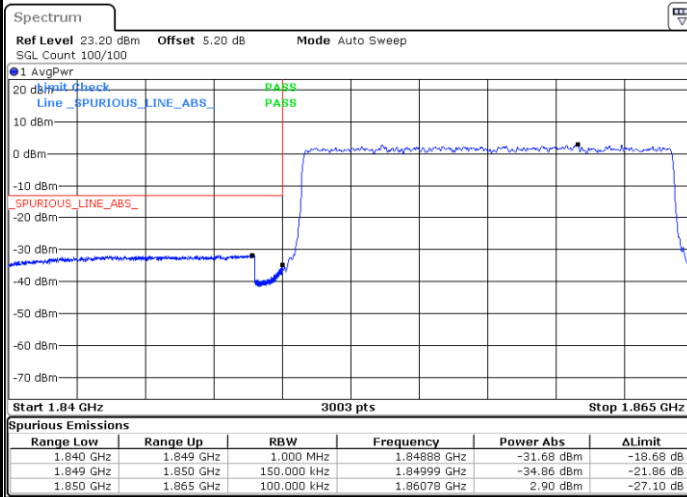
Date: 16 JAN 2020 07:04:01

Highest Band Edge / 1 RB



Date: 15 JAN 2020 20:08:21

Lowest Band Edge / Full RB



Date: 15 JAN 2020 20:01:07

Highest Band Edge / Full RB

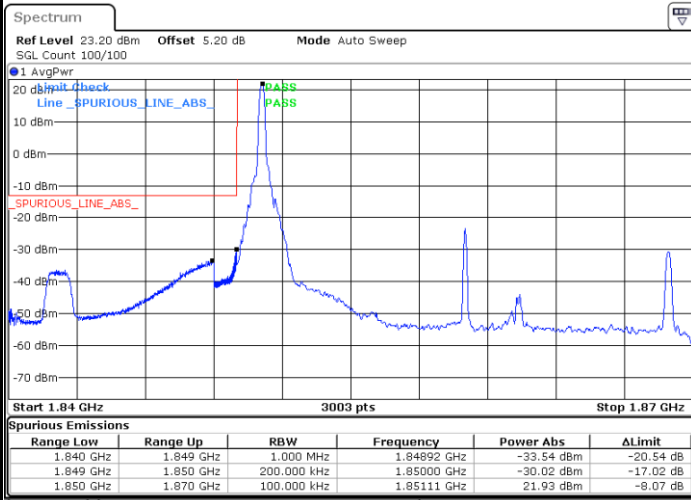


Date: 15 JAN 2020 20:10:36



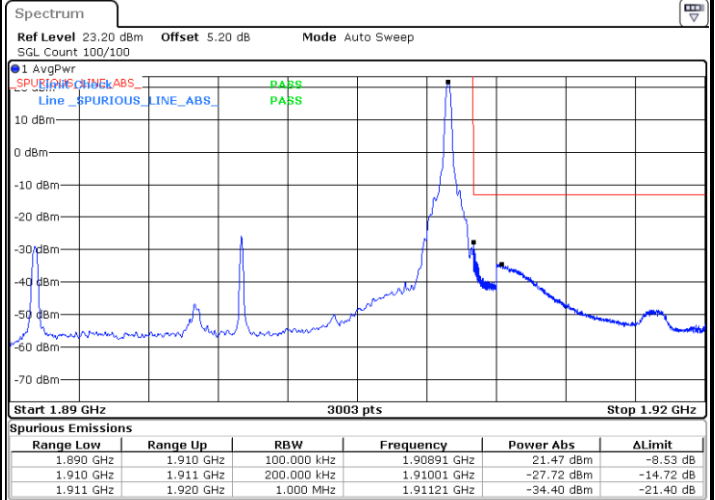
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



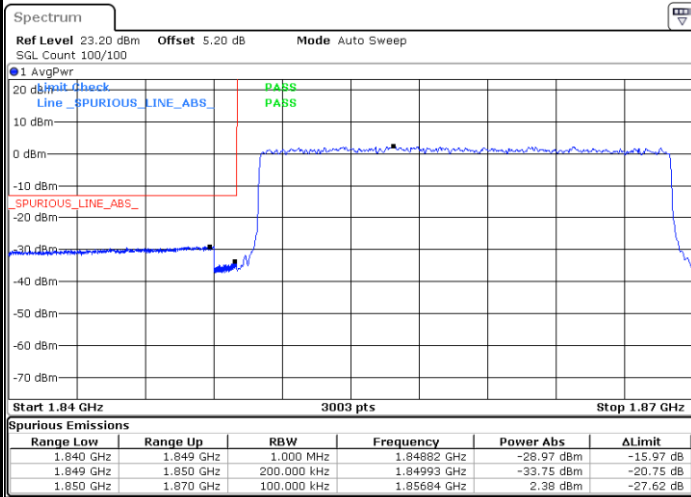
Date: 15 JAN 2020 20:14:12

Highest Band Edge / 1 RB



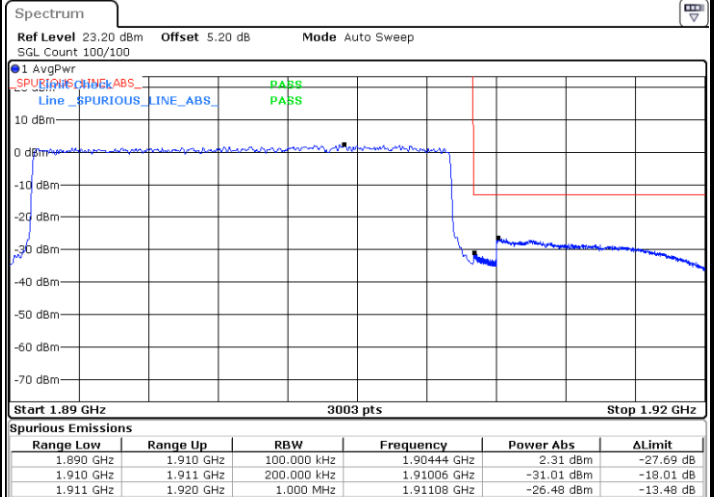
Date: 15 JAN 2020 20:23:41

Lowest Band Edge / Full RB



Date: 15 JAN 2020 20:16:27

Highest Band Edge / Full RB

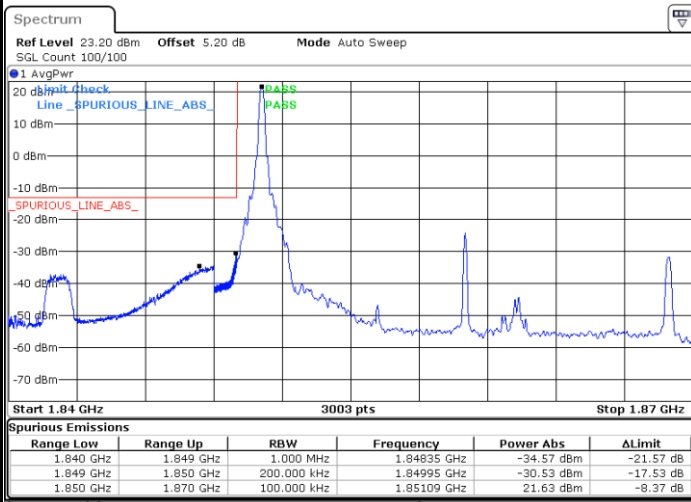


Date: 15 JAN 2020 20:25:56



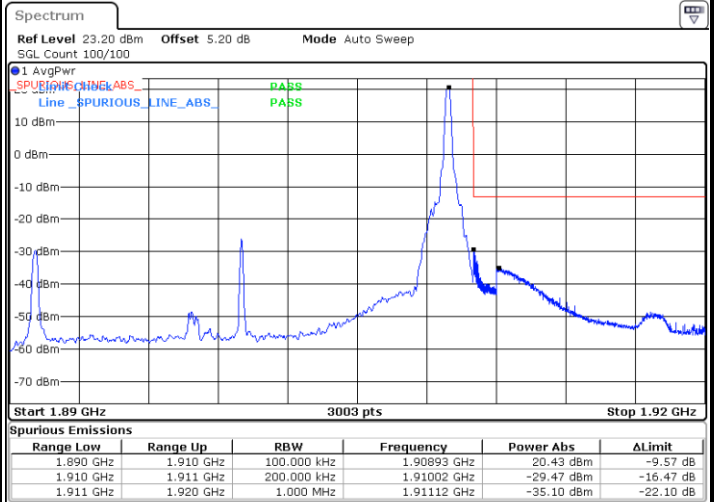
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



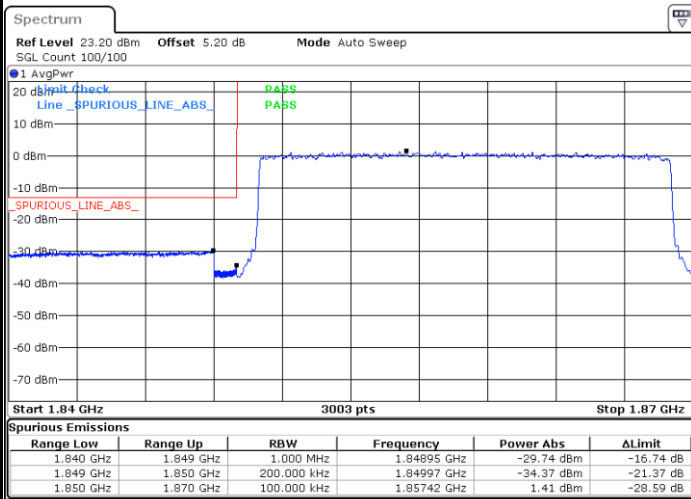
Date: 15 JAN 2020 20:15:20

Highest Band Edge / 1 RB



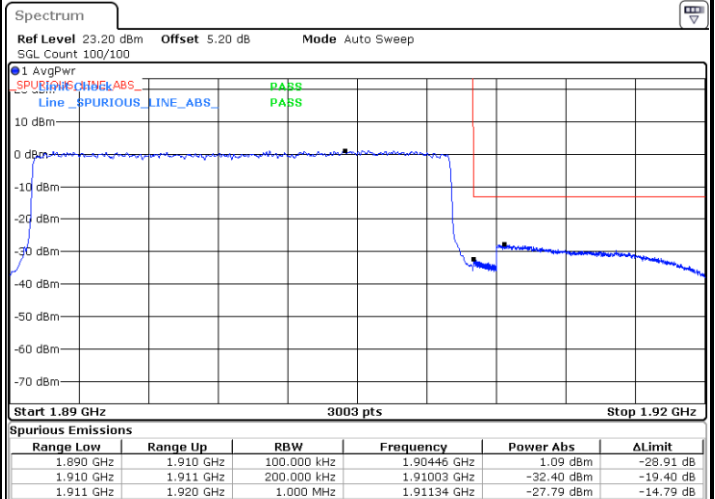
Date: 15 JAN 2020 20:24:48

Lowest Band Edge / Full RB



Date: 15 JAN 2020 20:17:35

Highest Band Edge / Full RB

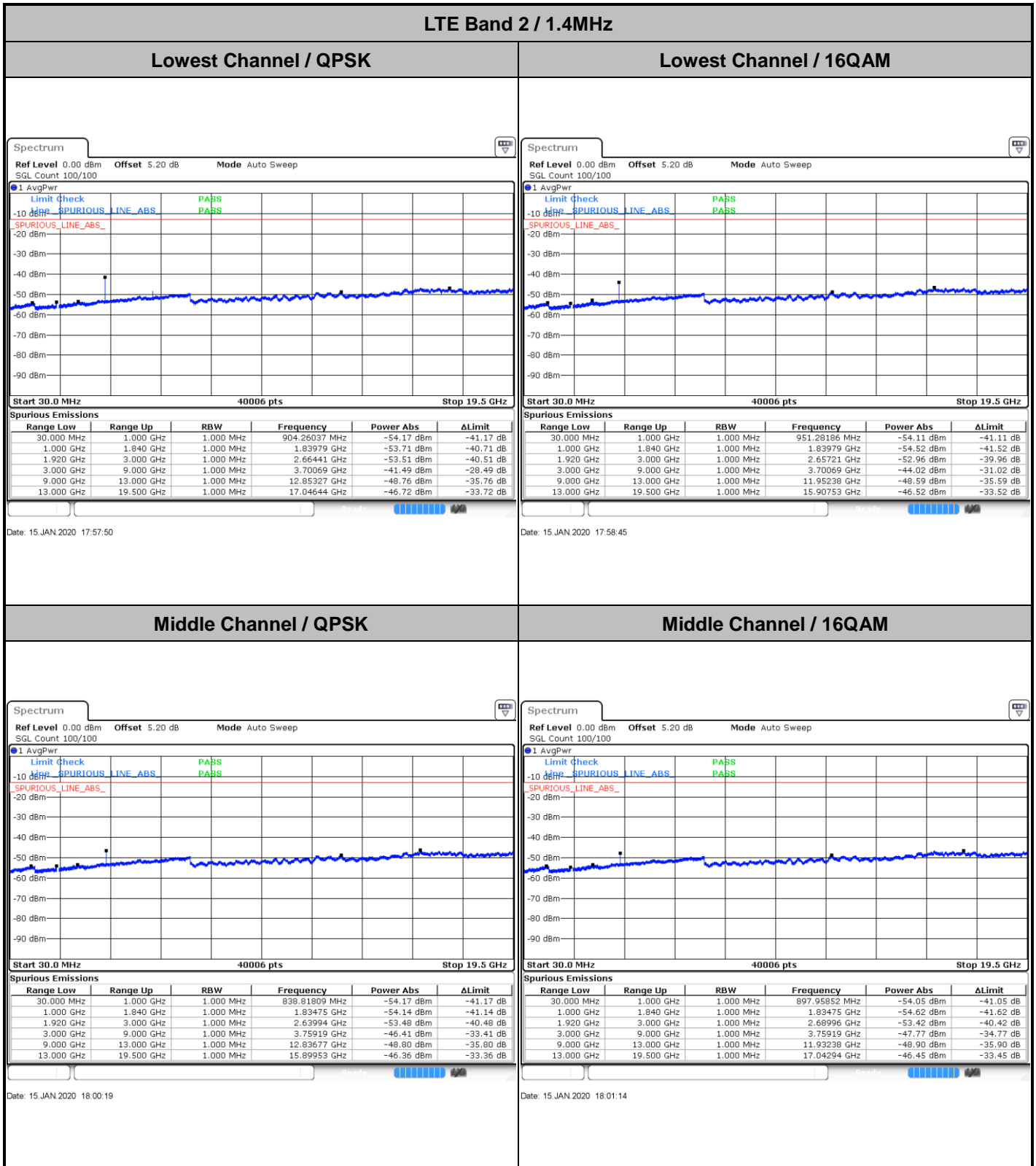


Date: 15 JAN 2020 20:27:03





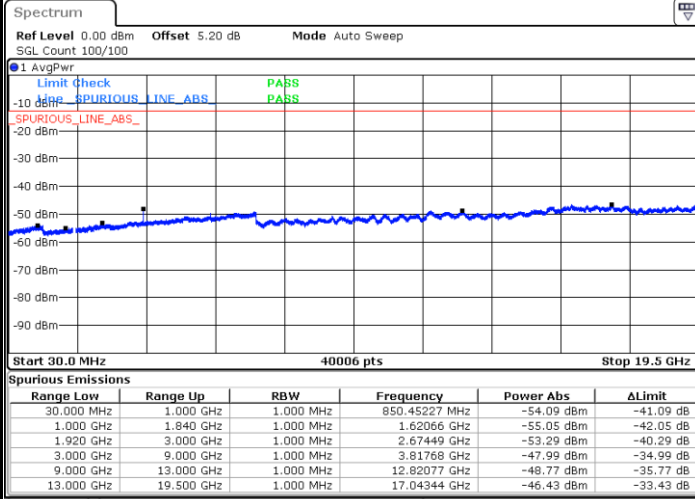
# Conducted Spurious Emission





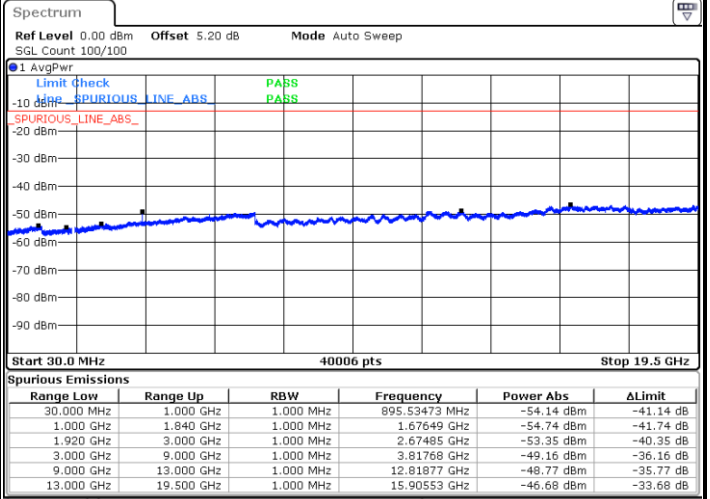
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 15 JAN 2020 18:07:18

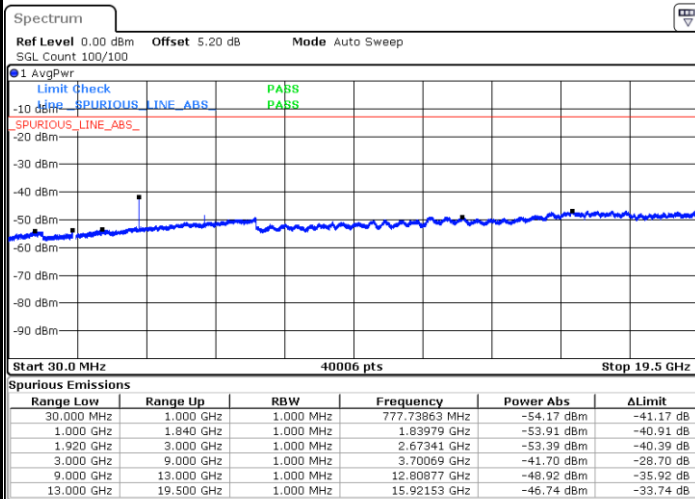
Highest Channel / 16QAM



Date: 15 JAN 2020 18:08:13

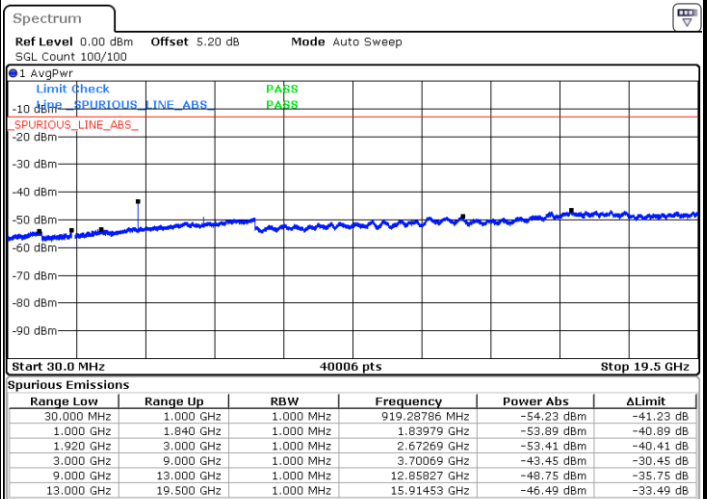
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 15 JAN 2020 18:14:17

Lowest Channel / 16QAM

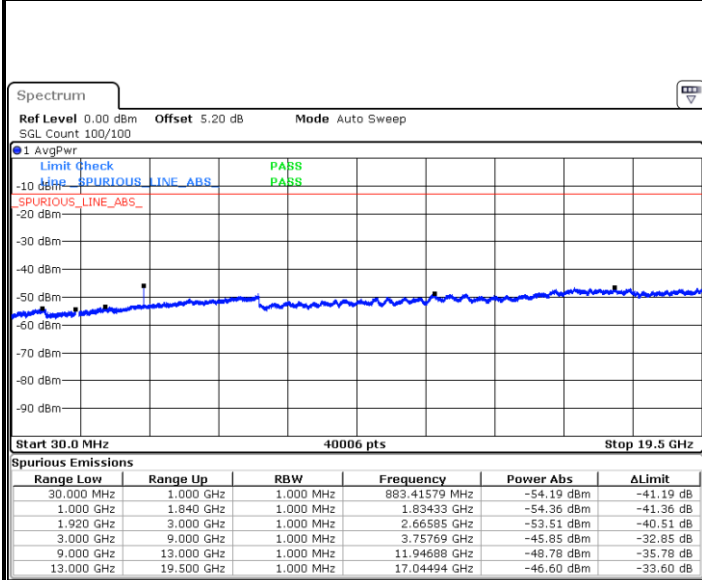


Date: 15 JAN 2020 18:15:12



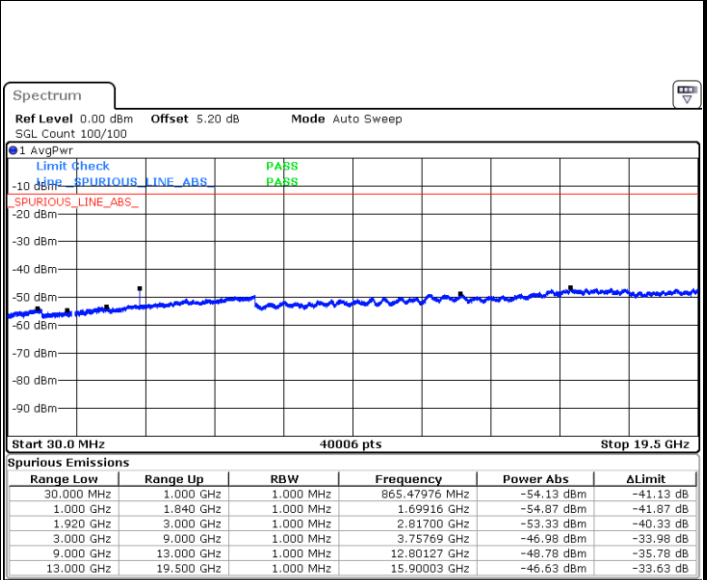
LTE Band 2 / 3MHz

Middle Channel / QPSK



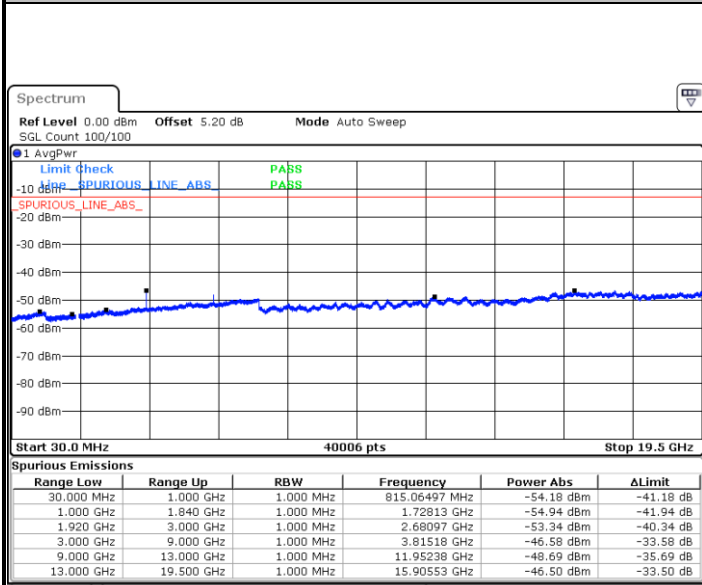
Date: 15 JAN 2020 18:16:51

Middle Channel / 16QAM



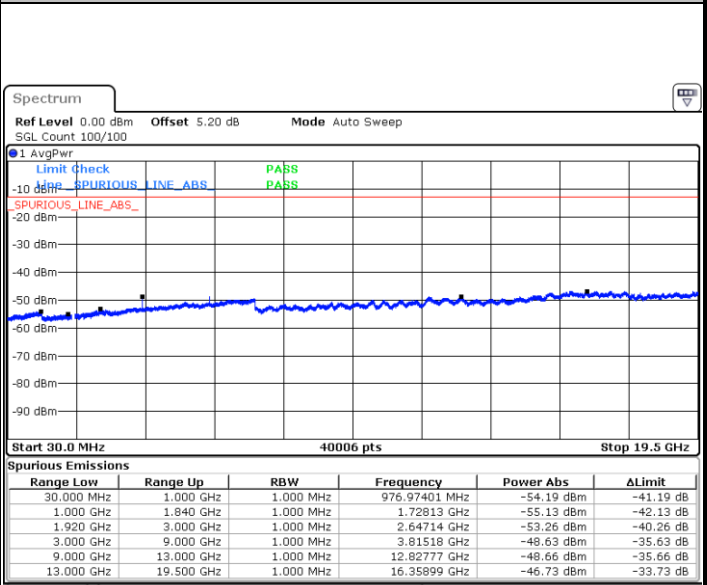
Date: 15 JAN 2020 18:17:46

Highest Channel / QPSK



Date: 15 JAN 2020 18:23:50

Highest Channel / 16QAM



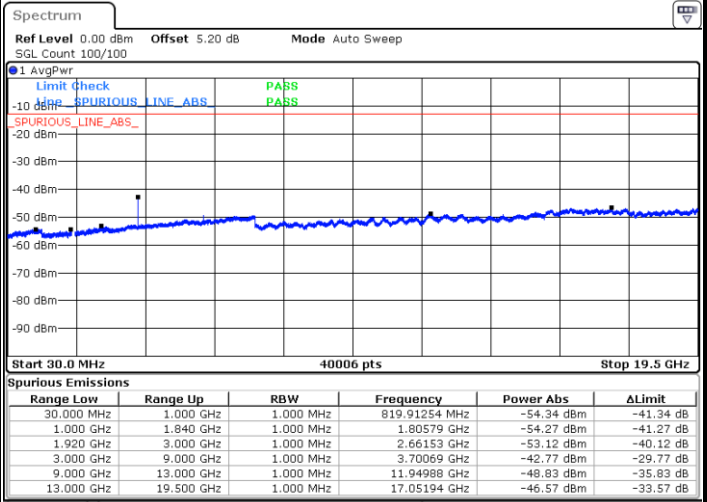
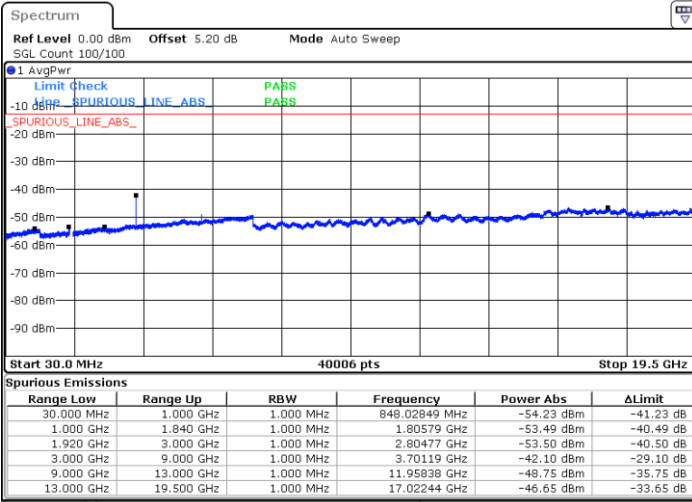
Date: 15 JAN 2020 18:24:44



LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

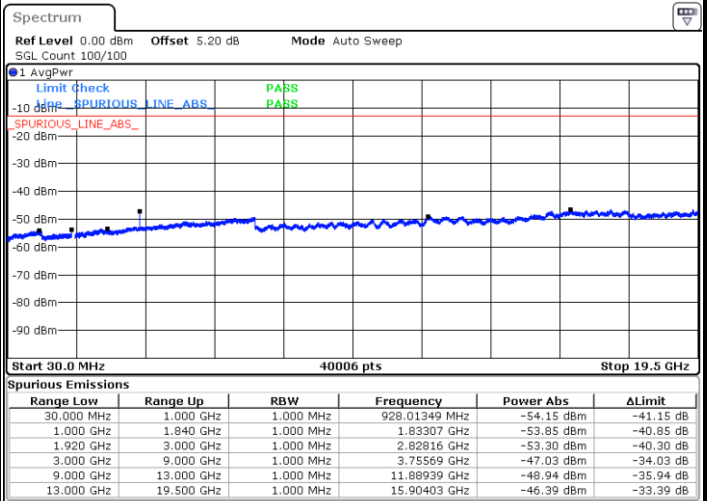
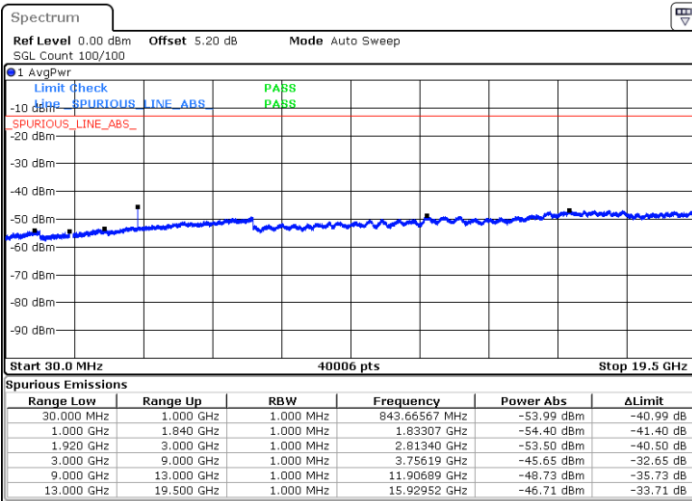


Date: 15 JAN 2020 18:30:49

Date: 15 JAN 2020 18:31:43

Middle Channel / QPSK

Middle Channel / 16QAM



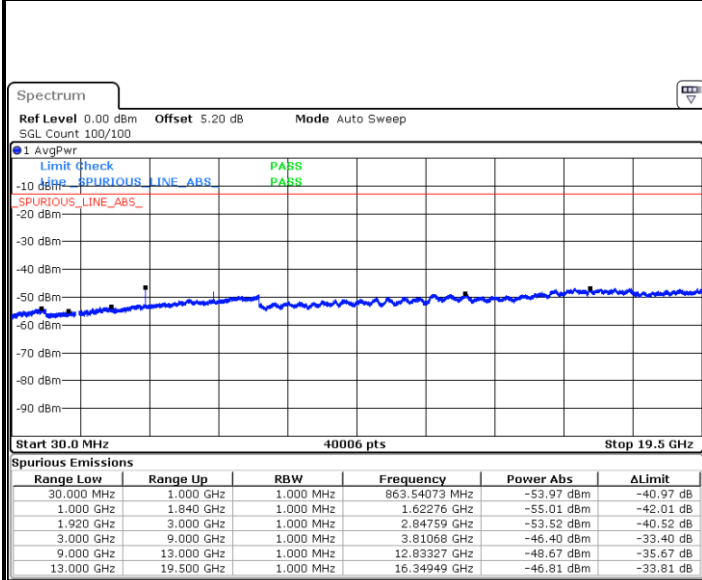
Date: 15 JAN 2020 18:33:18

Date: 15 JAN 2020 18:34:13



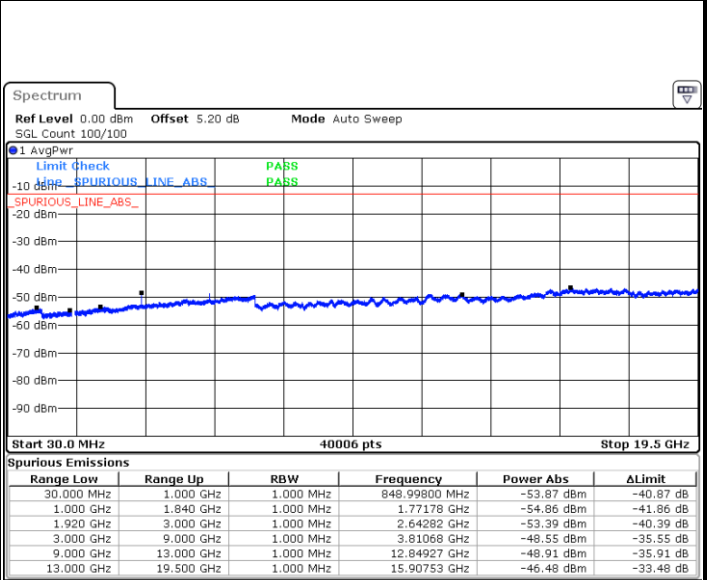
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 15 JAN 2020 18:40:17

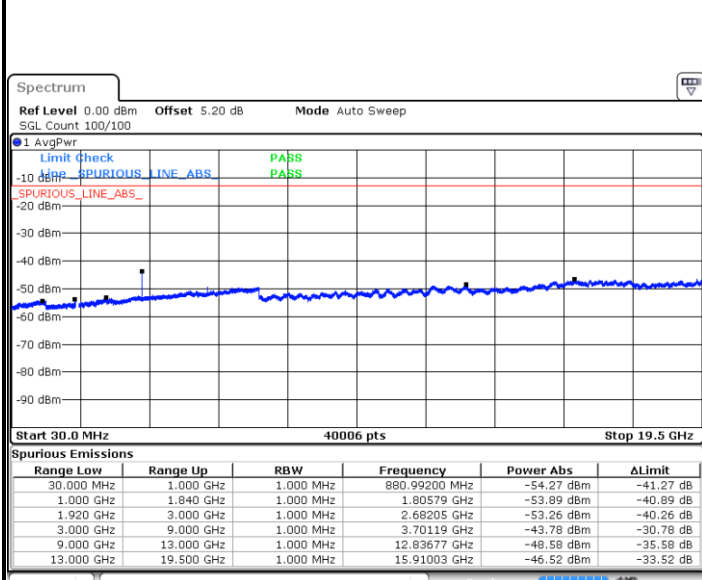
Highest Channel / 16QAM



Date: 15 JAN 2020 18:41:11

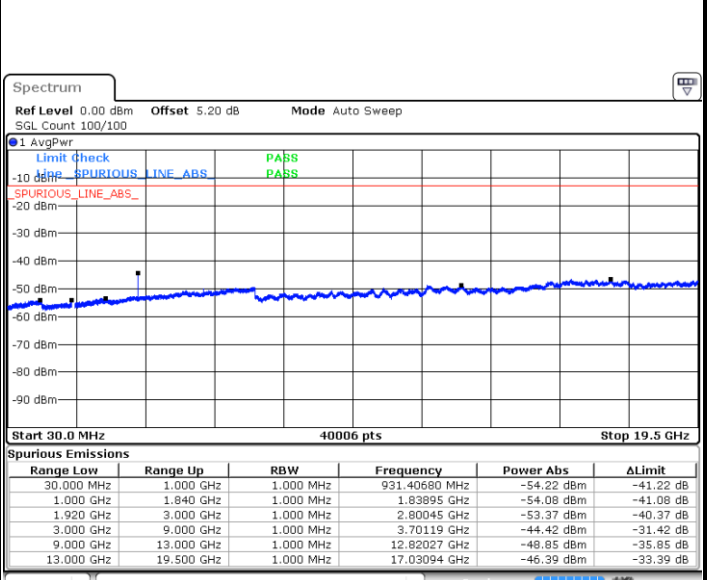
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 15 JAN 2020 19:45:34

Lowest Channel / 16QAM



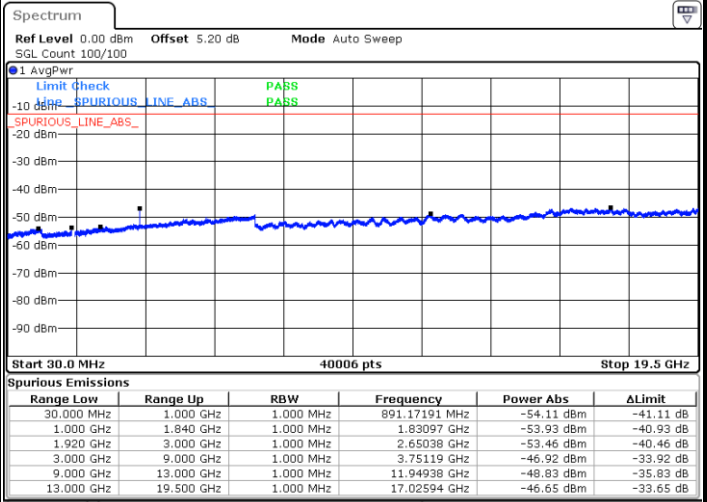
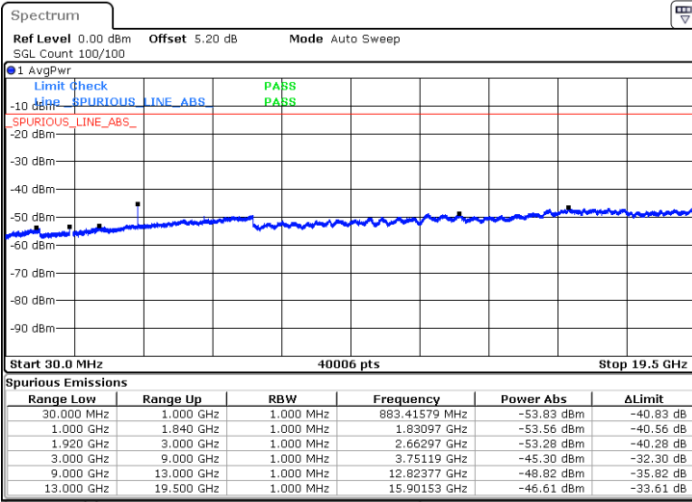
Date: 15 JAN 2020 19:46:28



LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

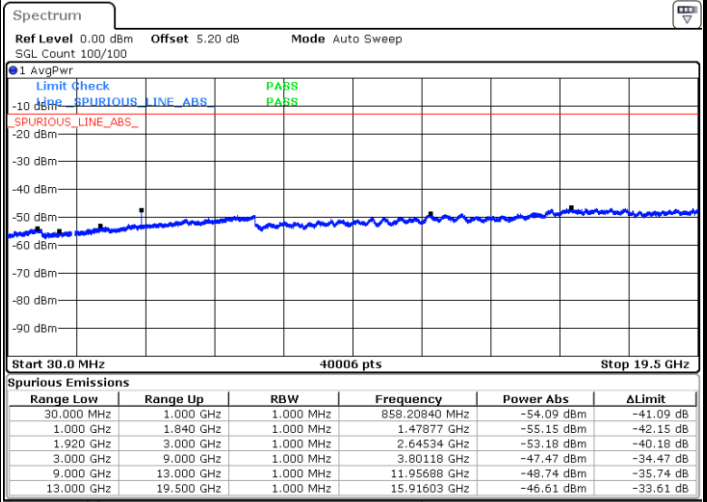
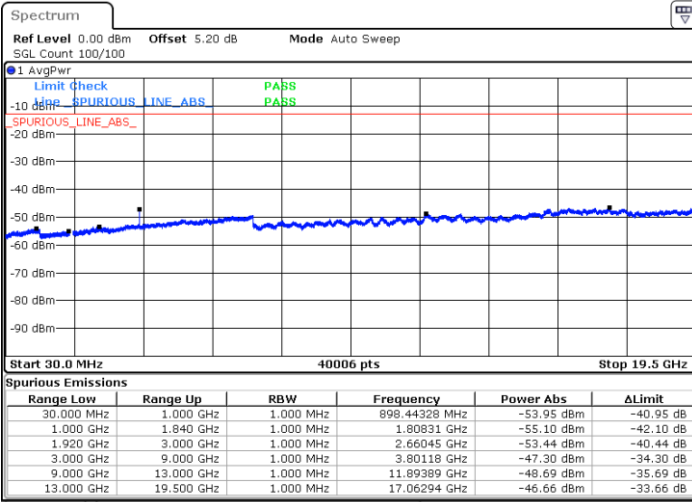


Date: 15 JAN 2020 19:48:03

Date: 15 JAN 2020 19:48:57

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15 JAN 2020 19:55:02

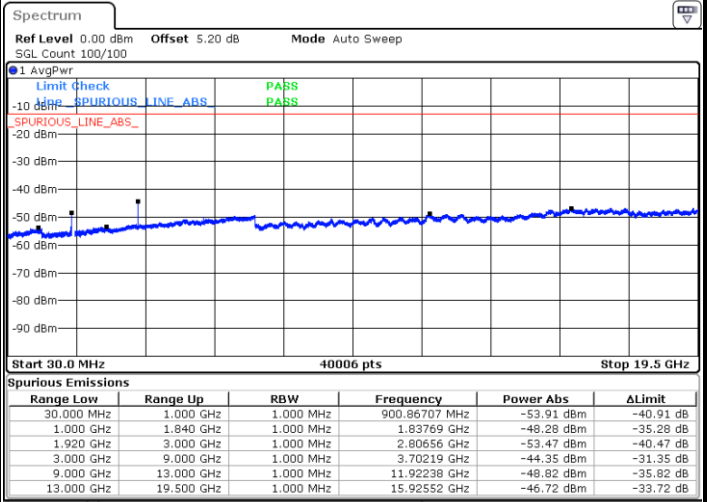
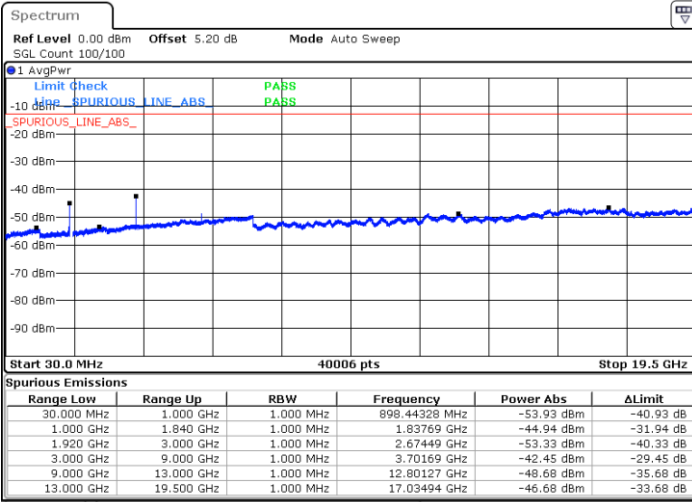
Date: 15 JAN 2020 19:55:56



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

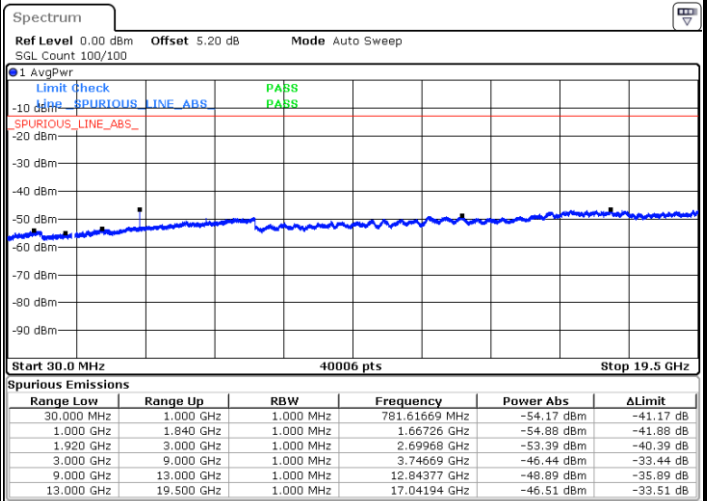
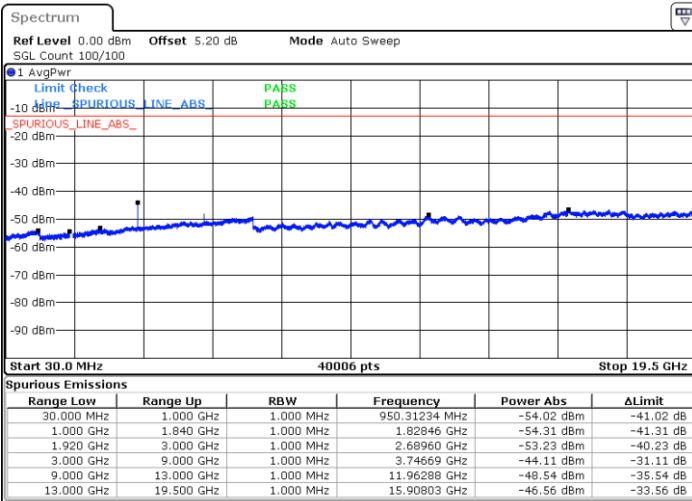


Date: 15 JAN 2020 20:02:01

Date: 15 JAN 2020 20:02:55

Middle Channel / QPSK

Middle Channel / 16QAM



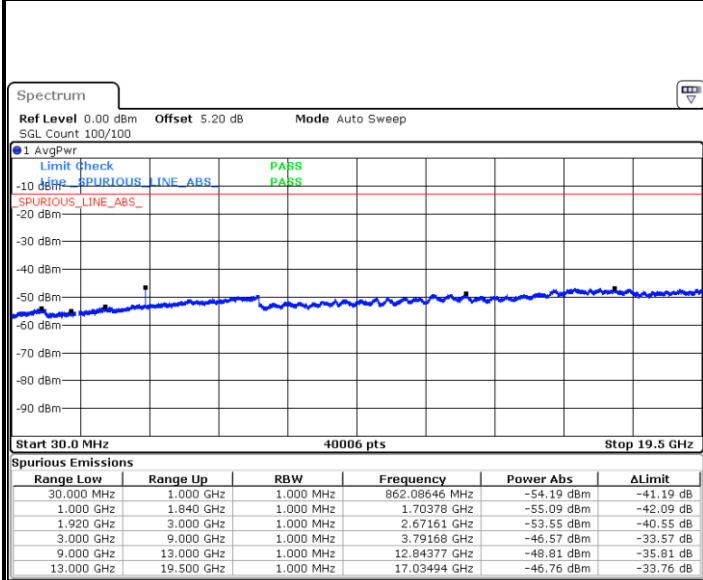
Date: 15 JAN 2020 20:04:30

Date: 15 JAN 2020 20:05:25



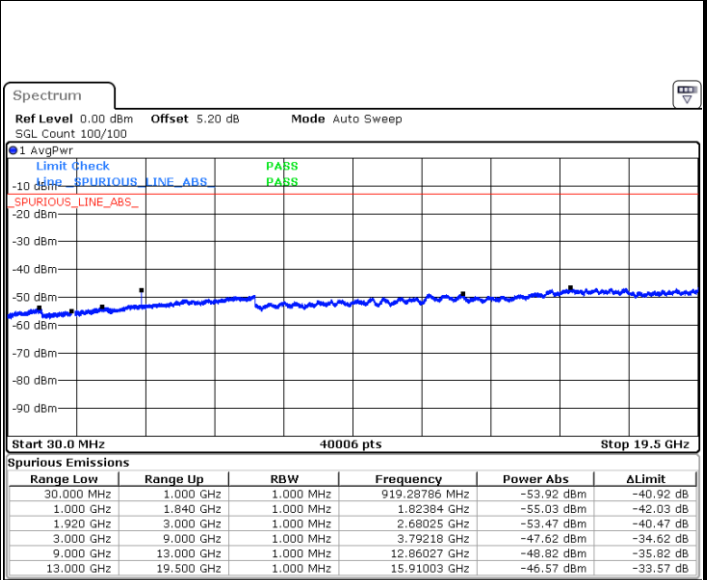
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 15 JAN 2020 20:11:29

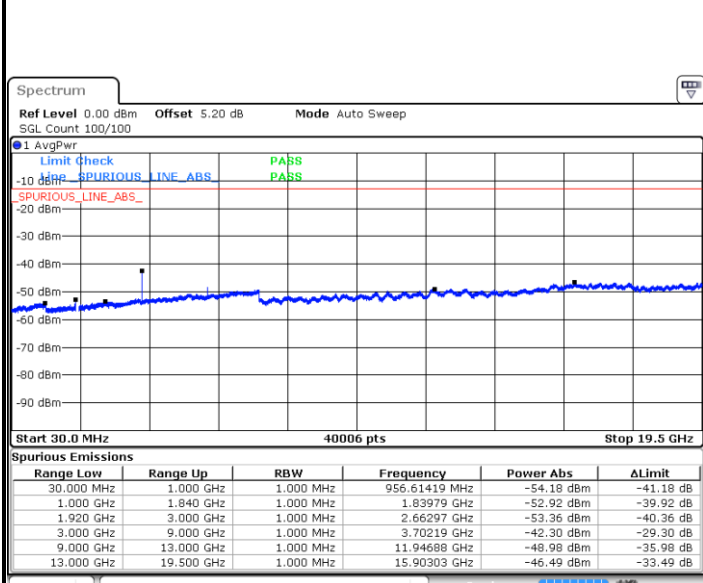
Highest Channel / 16QAM



Date: 15 JAN 2020 20:12:24

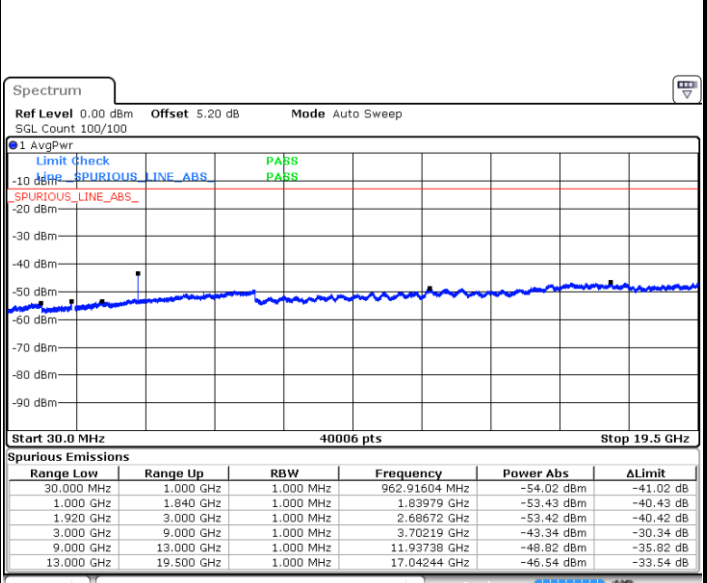
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 15 JAN 2020 20:18:28

Lowest Channel / 16QAM



Date: 15 JAN 2020 20:19:23

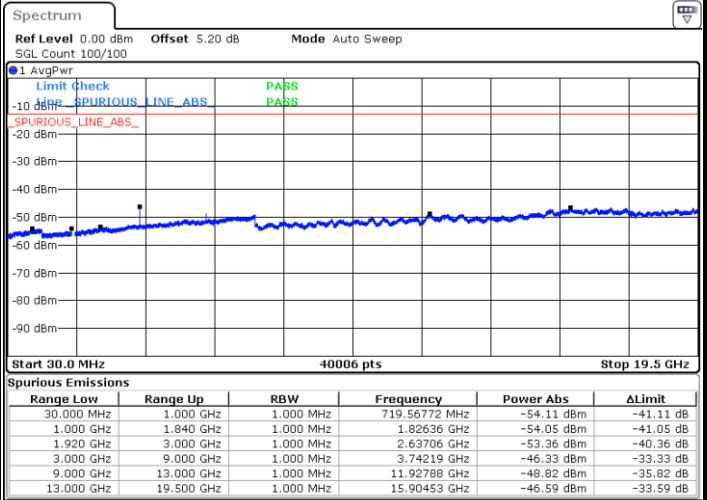
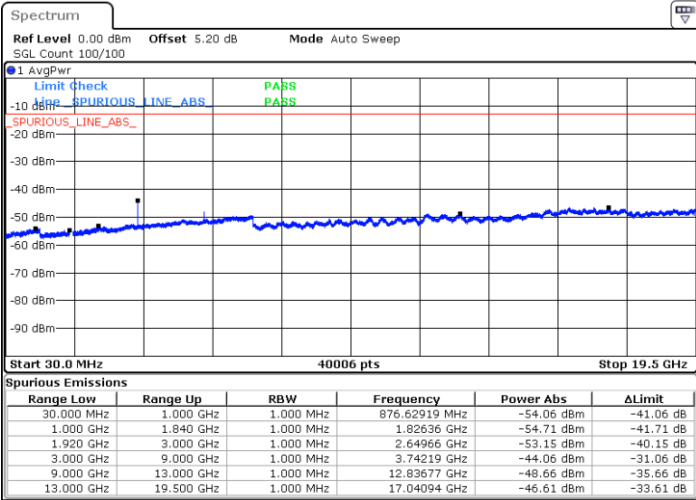




LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

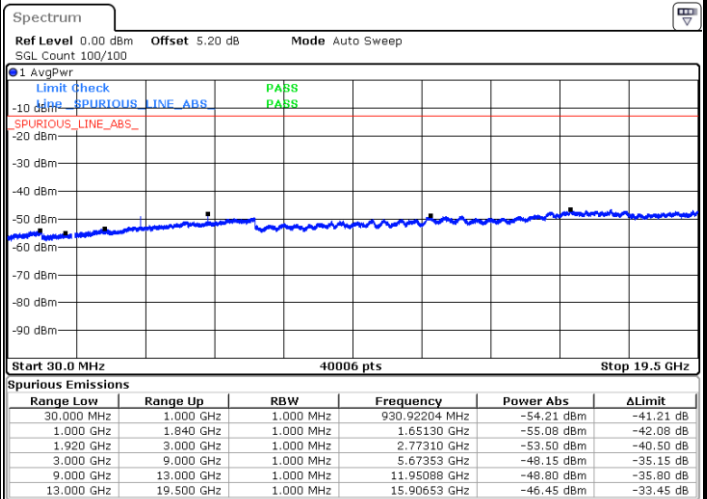
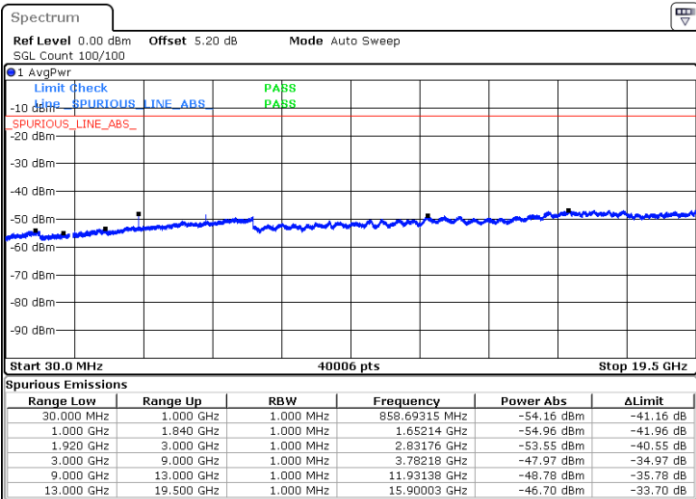


Date: 15 JAN 2020 20:20:57

Date: 15 JAN 2020 20:21:52

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15 JAN 2020 20:27:56

Date: 15 JAN 2020 20:28:51



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	0.0002	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =7.2 V. ; Battery End Point (BEP) =7 V. ; Maximum Voltage =8.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 4

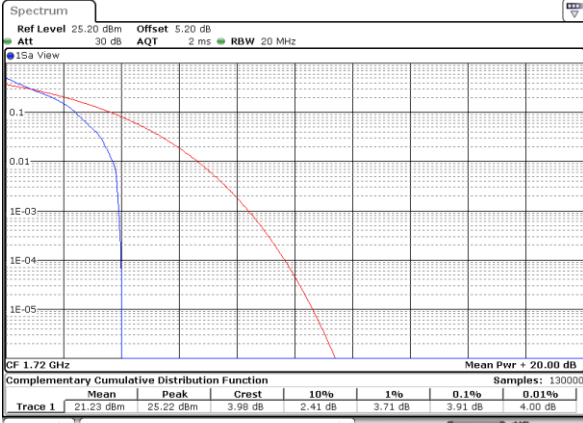
### Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.91	4.96	4.81	5.86	<b>PASS</b>
Middle CH	4.32	4.78	5.10	5.77	
Highest CH	4.20	4.72	5.04	5.62	



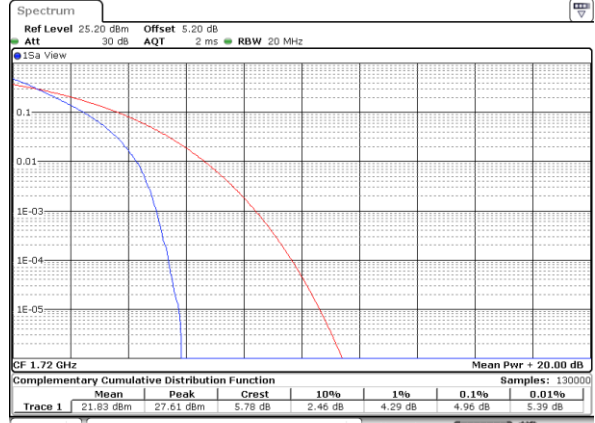
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



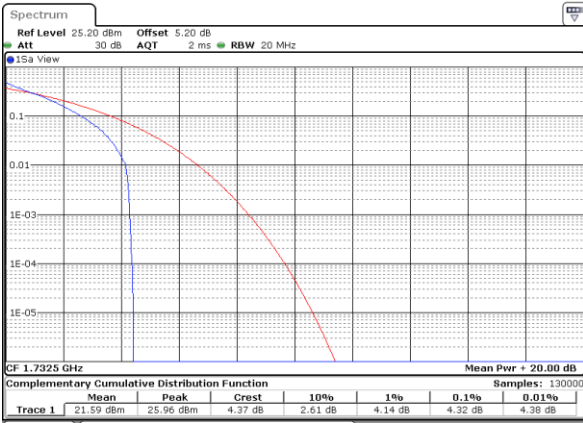
Date: 16 JAN 2020 07:13:10

Lowest Channel / Full RB



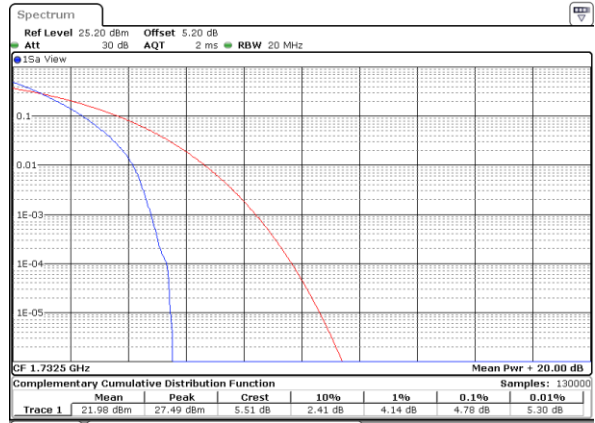
Date: 16 JAN 2020 07:12:59

Middle Channel / 1RB



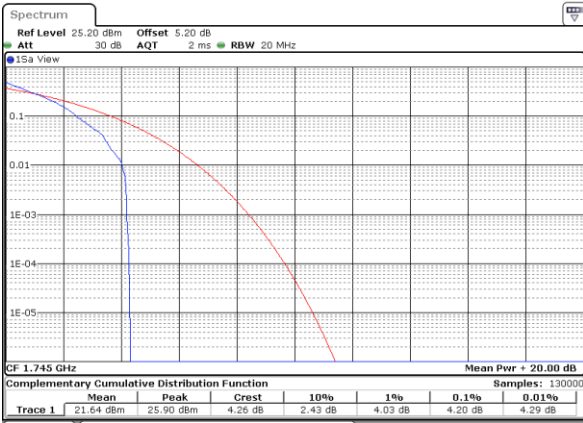
Date: 16 JAN 2020 07:13:25

Middle Channel / Full RB



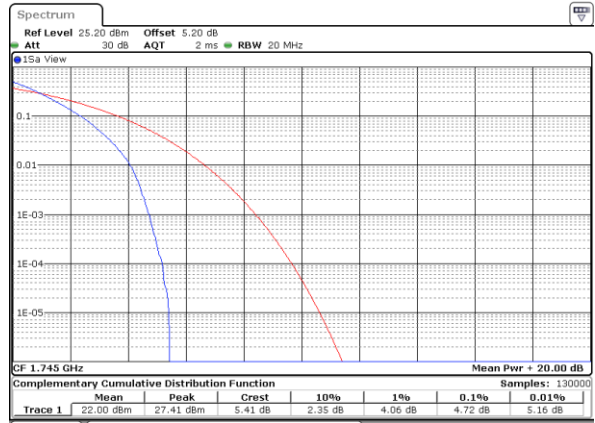
Date: 16 JAN 2020 07:13:38

Highest Channel / 1RB



Date: 16 JAN 2020 07:14:13

Highest Channel / Full RB

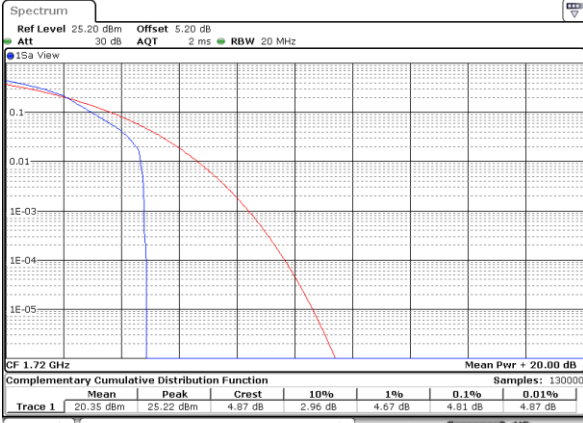


Date: 16 JAN 2020 07:13:50



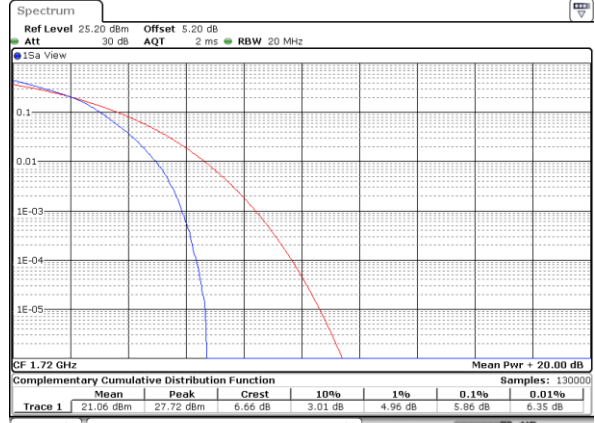
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 16 JAN 2020 02:27:08

Lowest Channel / Full RB



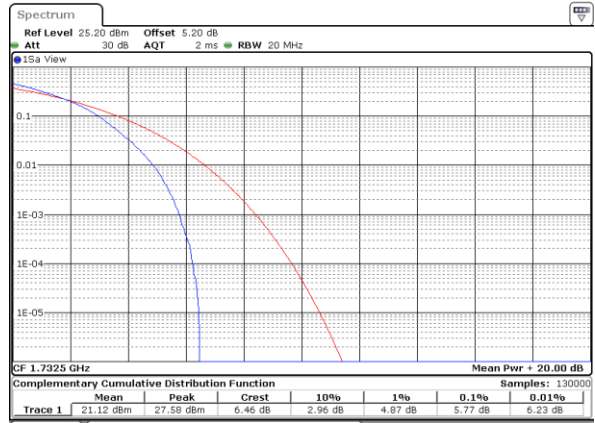
Date: 16 JAN 2020 02:27:16

Middle Channel / 1RB



Date: 16 JAN 2020 02:27:25

Middle Channel / Full RB



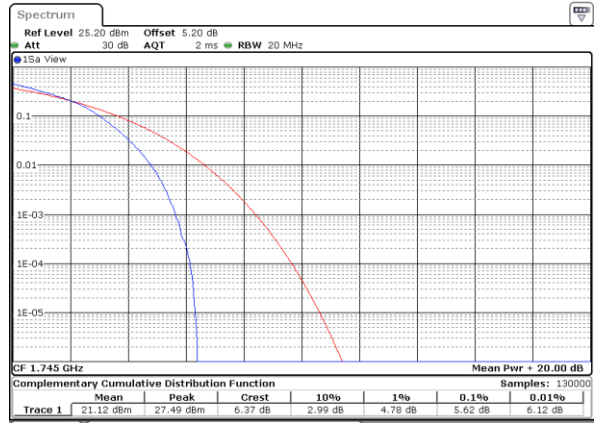
Date: 16 JAN 2020 02:27:34

Highest Channel / 1RB



Date: 16 JAN 2020 02:27:42

Highest Channel / Full RB



Date: 16 JAN 2020 02:27:51



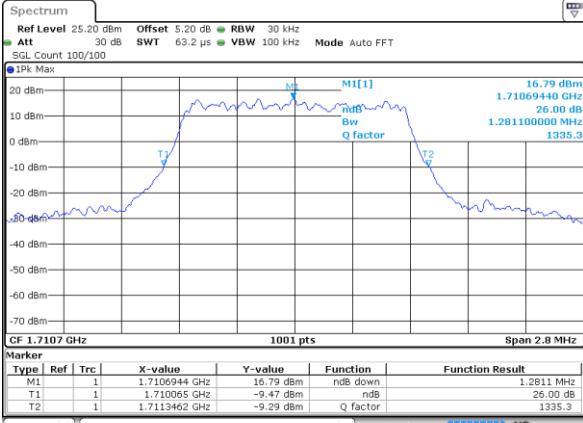
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.281	1.284	3.033	3.021	4.845	4.955	9.870	9.690	14.505	14.446	20.100	20.100
Middle CH	1.267	1.273	3.009	3.003	4.935	4.905	9.890	9.950	14.386	14.535	20.180	20.140
Highest CH	1.287	1.256	2.985	2.979	4.965	4.875	9.950	9.770	14.236	14.535	20.220	20.100



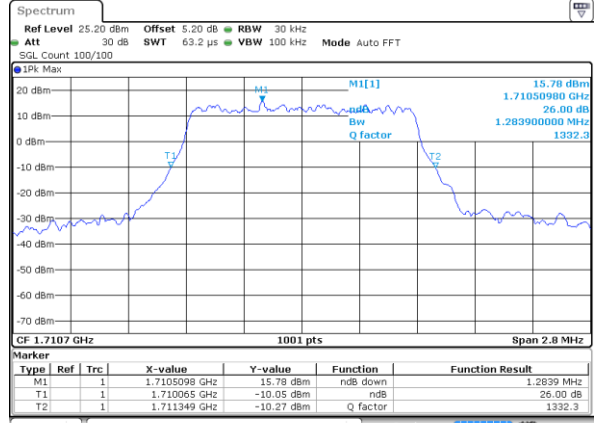
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



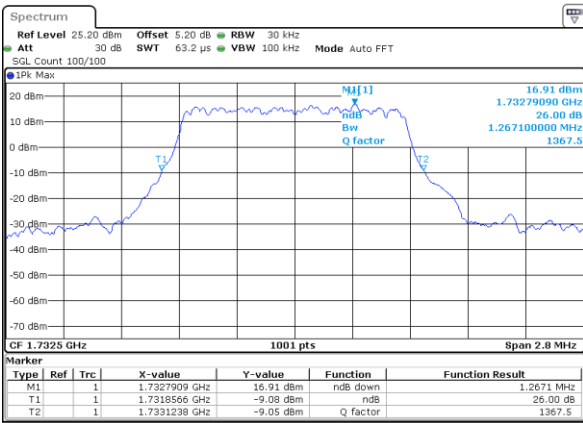
Date: 16 JAN 2020 00:25:07

Lowest Channel / 1.4MHz / 16QAM



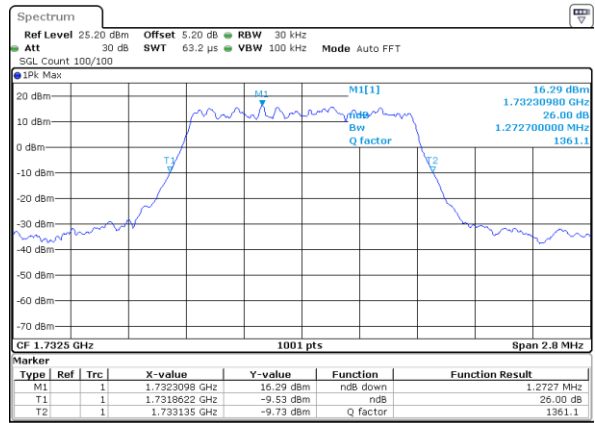
Date: 16 JAN 2020 00:25:16

Middle Channel / 1.4MHz / QPSK



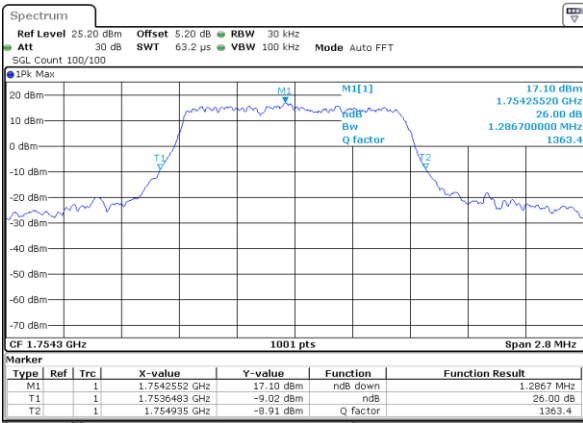
Date: 16 JAN 2020 00:32:05

Middle Channel / 1.4MHz / 16QAM



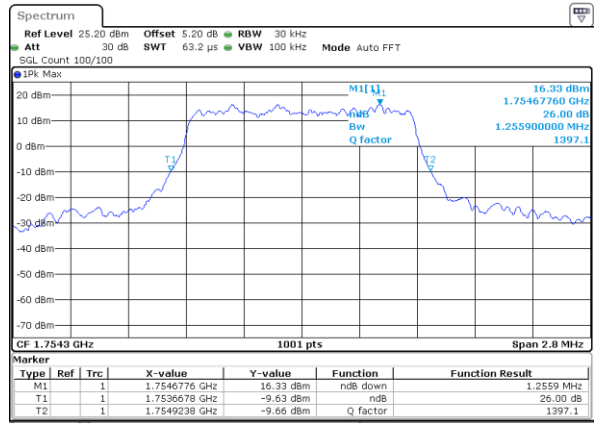
Date: 16 JAN 2020 00:32:15

Highest Channel / 1.4MHz / QPSK



Date: 16 JAN 2020 00:34:34

Highest Channel / 1.4MHz / 16QAM

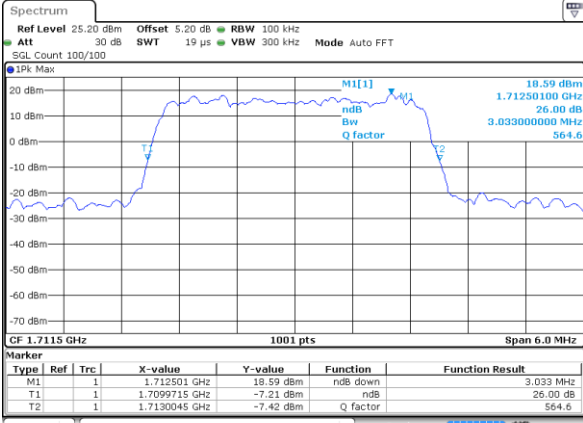


Date: 16 JAN 2020 00:34:43



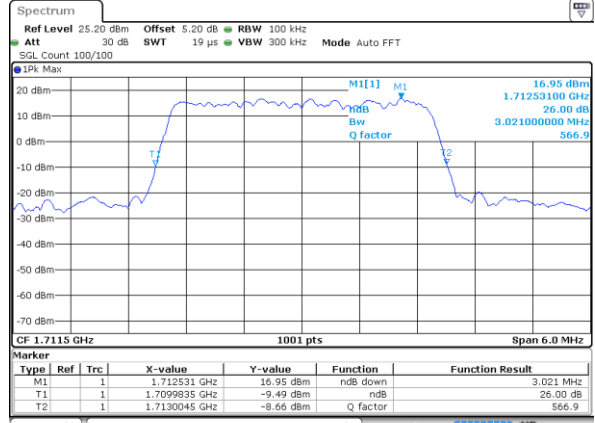
LTE Band 4

Lowest Channel / 3MHz / QPSK



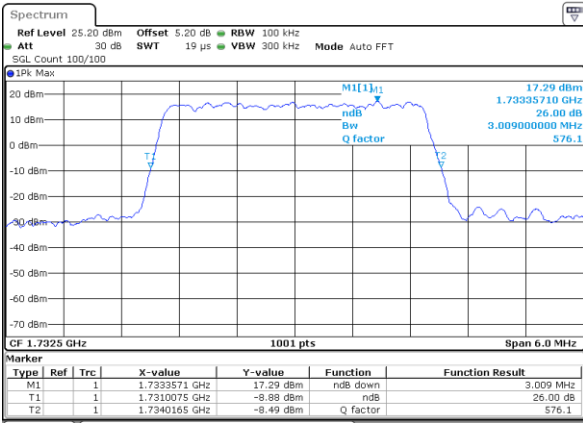
Date: 16 JAN 2020 00:41:32

Lowest Channel / 3MHz / 16QAM



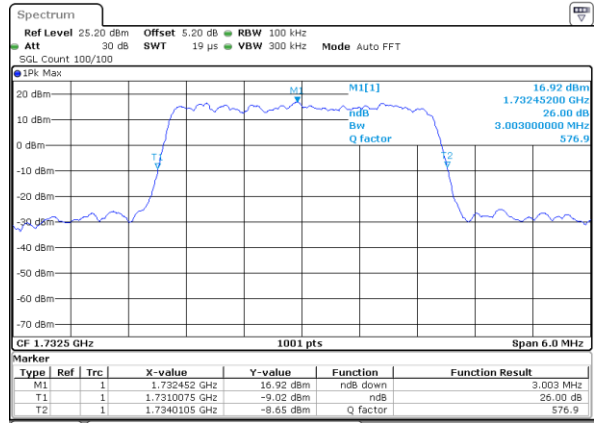
Date: 16 JAN 2020 00:41:42

Middle Channel / 3MHz / QPSK



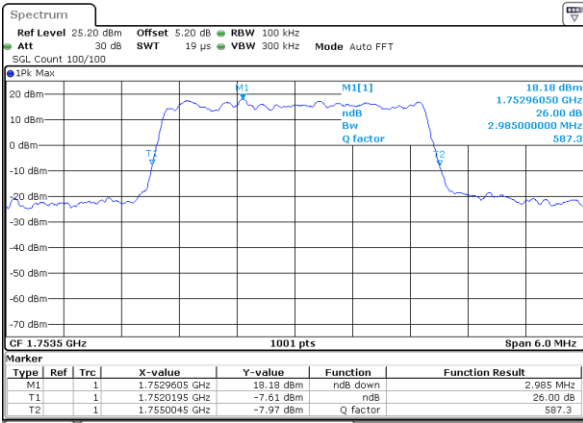
Date: 16 JAN 2020 00:48:30

Middle Channel / 3MHz / 16QAM



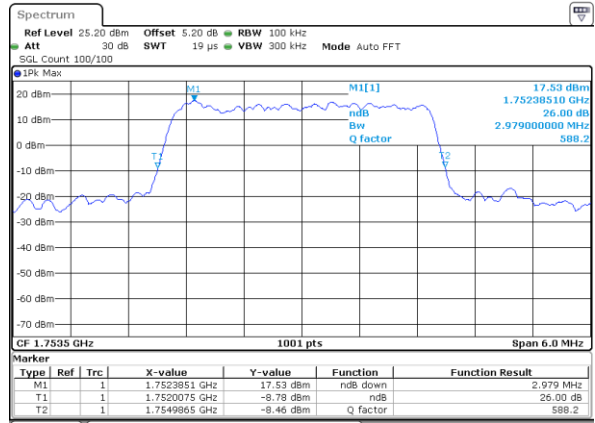
Date: 16 JAN 2020 00:48:40

Highest Channel / 3MHz / QPSK



Date: 16 JAN 2020 00:50:59

Highest Channel / 3MHz / 16QAM



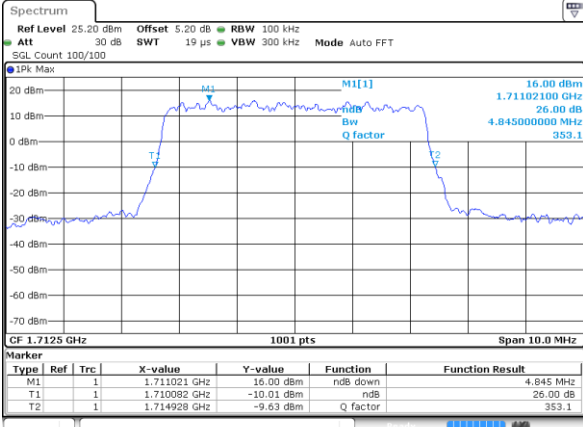
Date: 16 JAN 2020 00:51:09





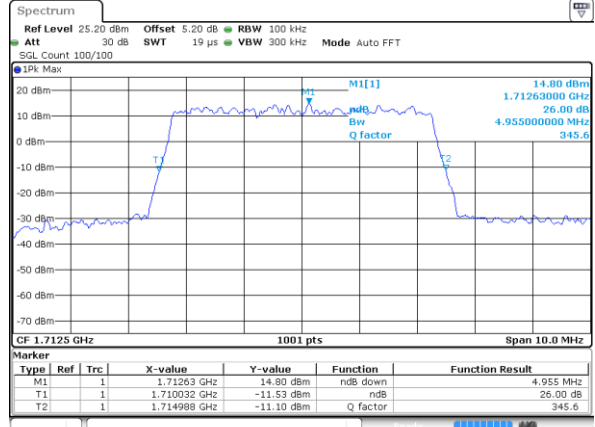
LTE Band 4

Lowest Channel / 5MHz / QPSK



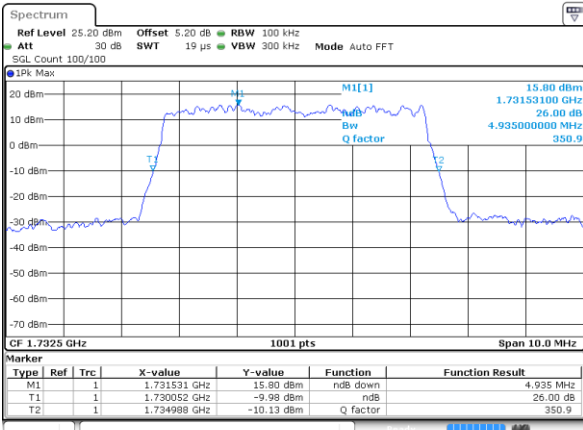
Date: 16 JAN 2020 00:57:57

Lowest Channel / 5MHz / 16QAM



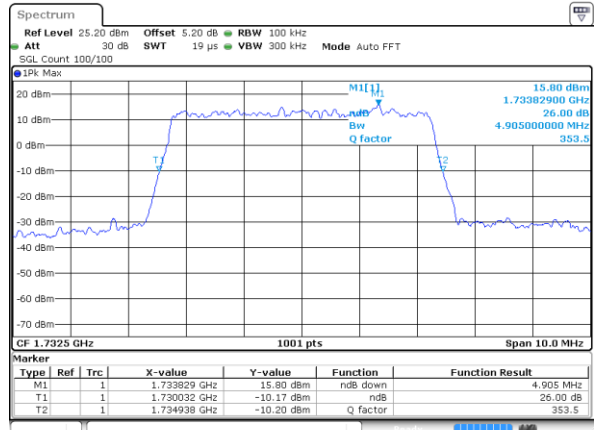
Date: 16 JAN 2020 00:58:07

Middle Channel / 5MHz / QPSK



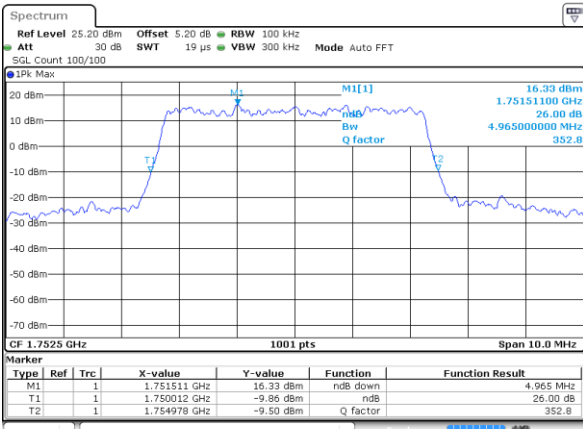
Date: 16 JAN 2020 01:04:56

Middle Channel / 5MHz / 16QAM



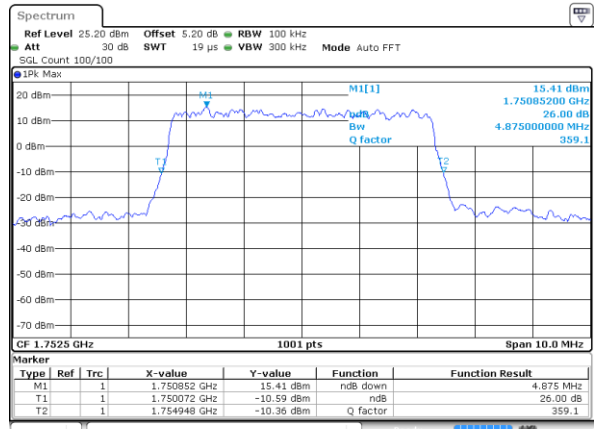
Date: 16 JAN 2020 01:05:05

Highest Channel / 5MHz / QPSK



Date: 16 JAN 2020 01:07:24

Highest Channel / 5MHz / 16QAM

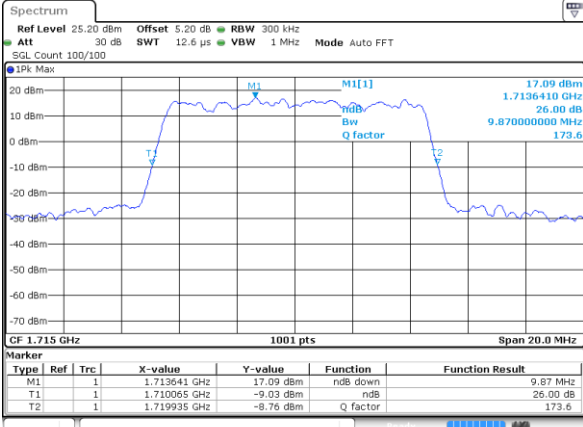


Date: 16 JAN 2020 01:07:34



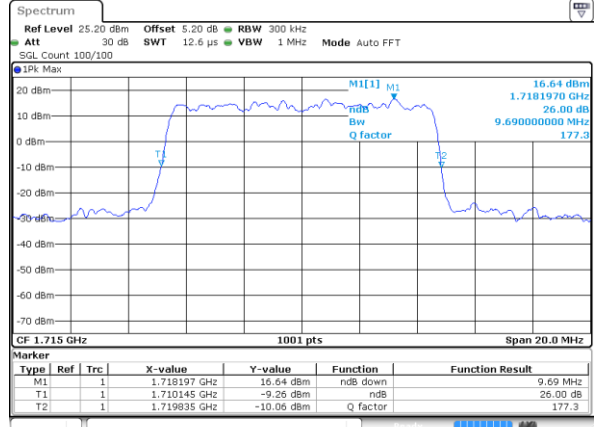
LTE Band 4

Lowest Channel / 10MHz / QPSK



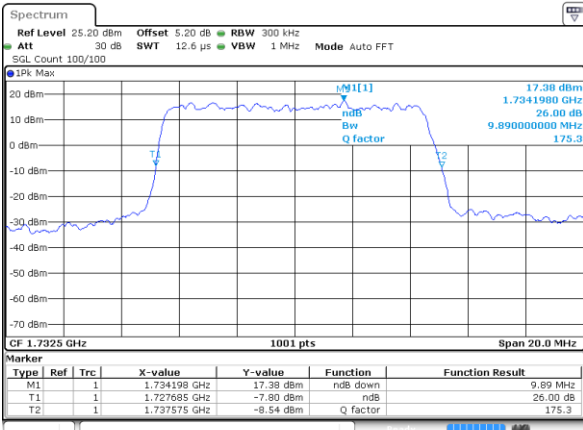
Date: 16 JAN 2020 01:14:22

Lowest Channel / 10MHz / 16QAM



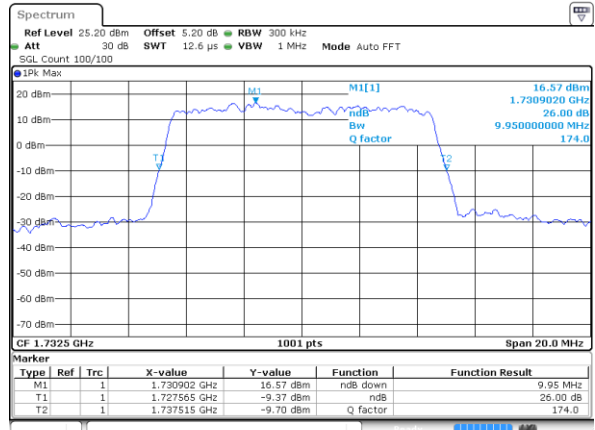
Date: 16 JAN 2020 01:14:32

Middle Channel / 10MHz / QPSK



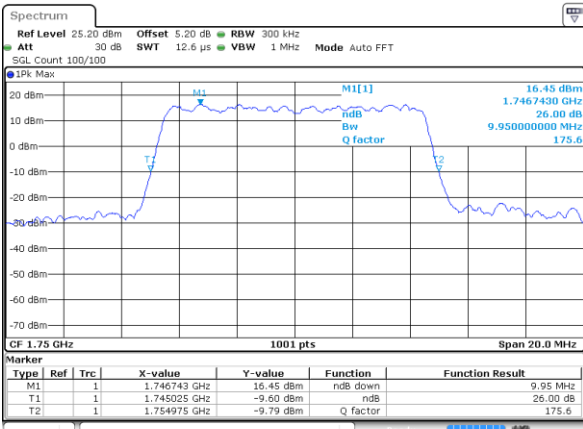
Date: 16 JAN 2020 01:21:20

Middle Channel / 10MHz / 16QAM



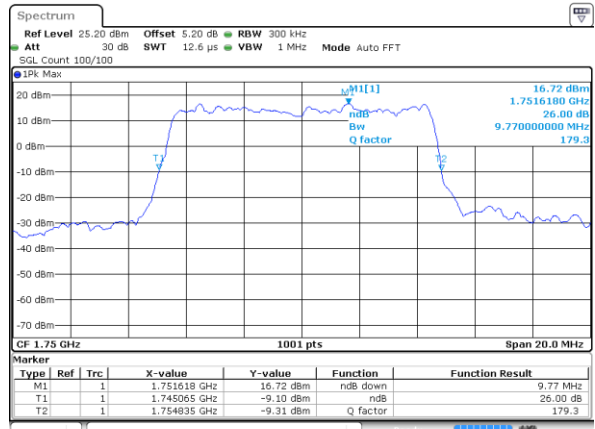
Date: 16 JAN 2020 01:21:30

Highest Channel / 10MHz / QPSK



Date: 16 JAN 2020 01:47:35

Highest Channel / 10MHz / 16QAM



Date: 16 JAN 2020 01:47:45