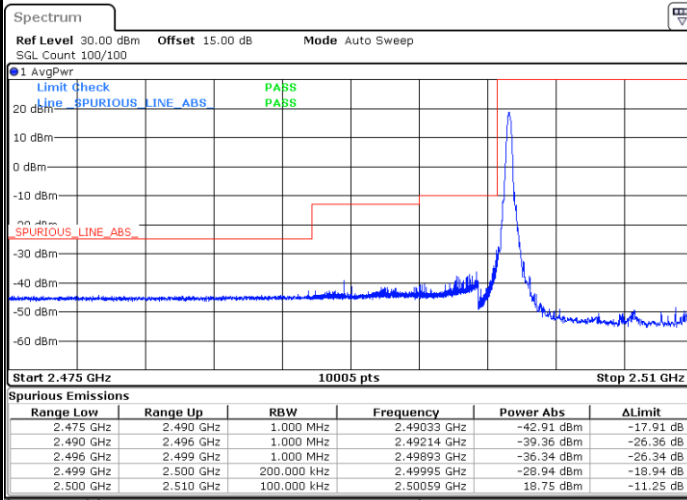




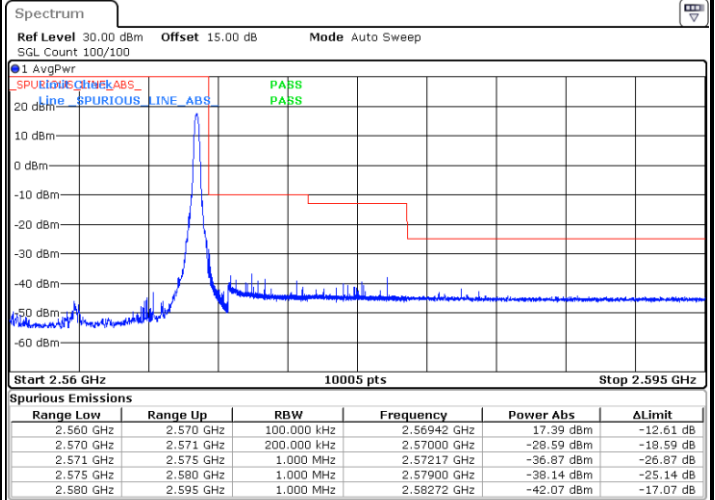
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



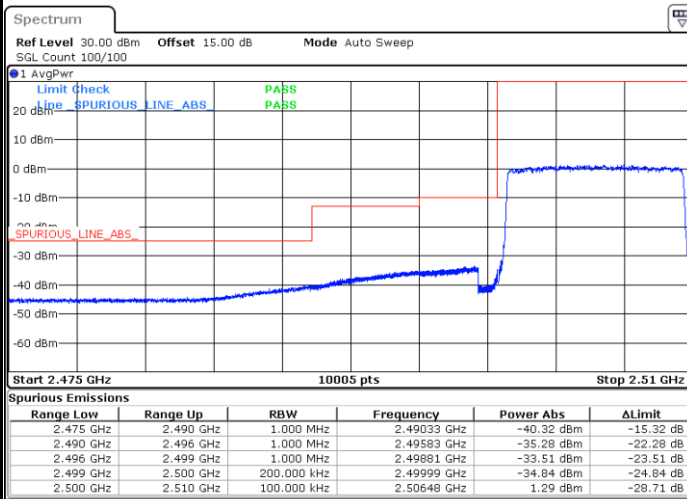
Date: 4 MAY 2020 11:46:18

Highest Band Edge / 1 RB



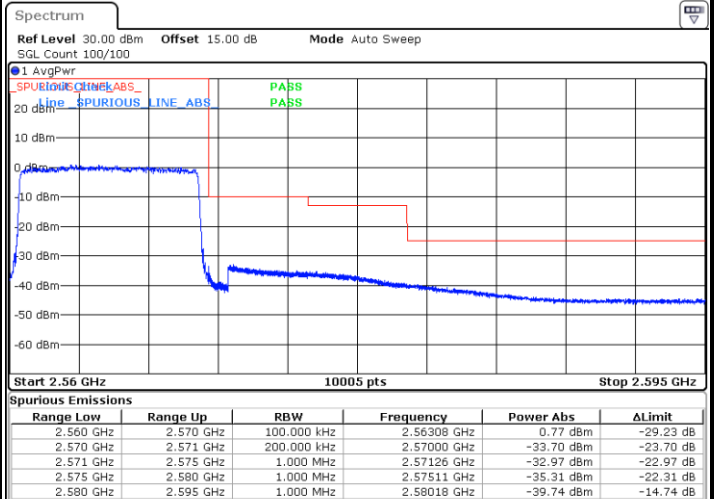
Date: 4 MAY 2020 11:49:59

Lowest Band Edge / Full RB



Date: 4 MAY 2020 11:47:26

Highest Band Edge / Full RB

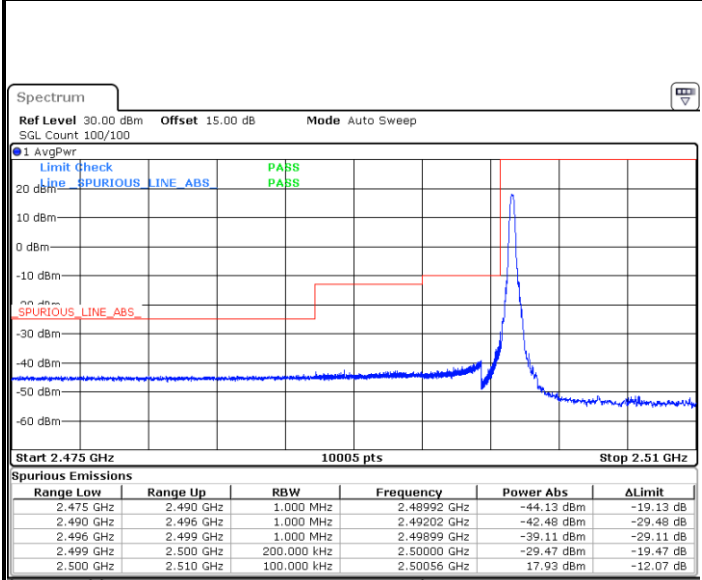


Date: 4 MAY 2020 11:54:13



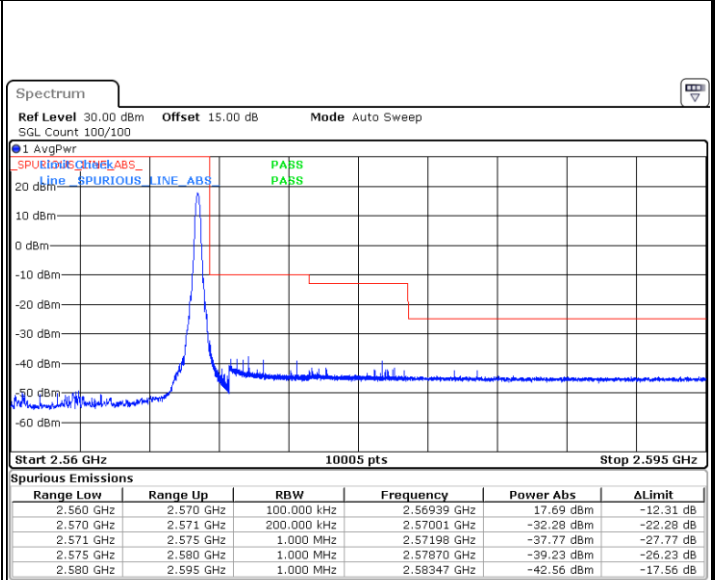
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



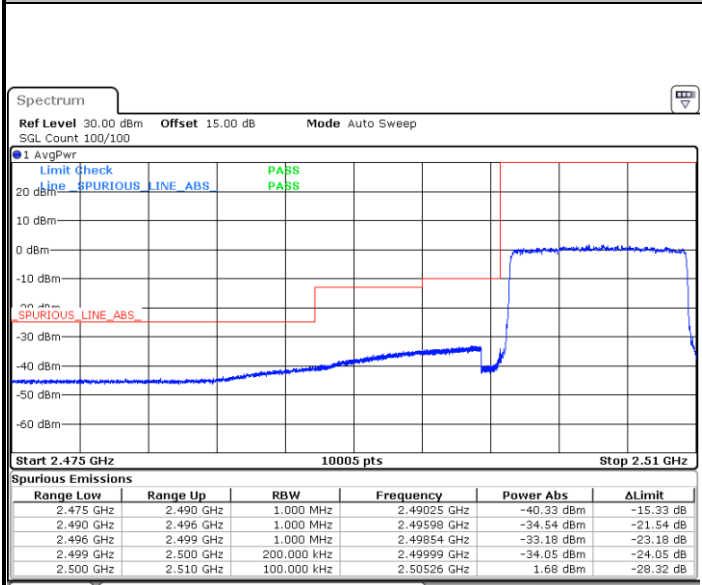
Date: 4 MAY 2020 11:46:36

Highest Band Edge / 1 RB



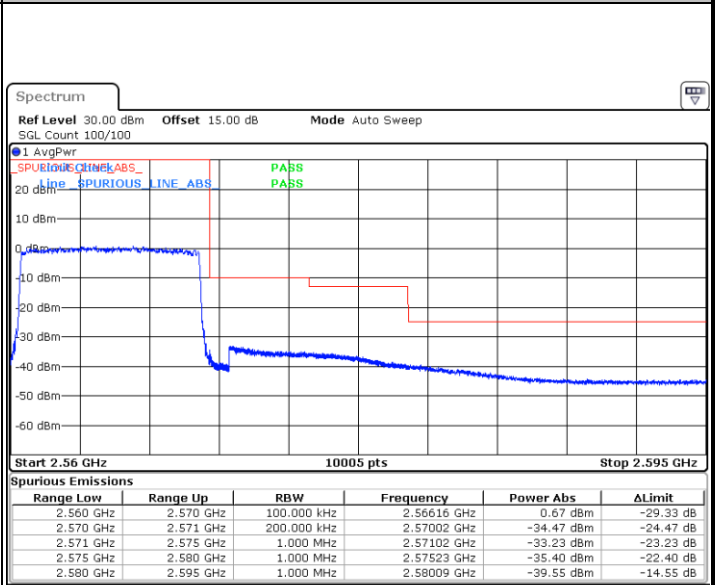
Date: 4 MAY 2020 11:50:58

Lowest Band Edge / Full RB



Date: 4 MAY 2020 11:47:47

Highest Band Edge / Full RB

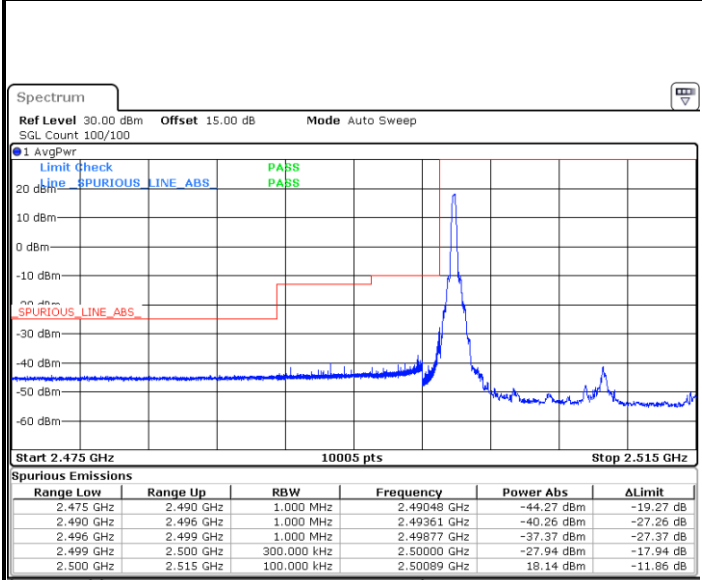


Date: 4 MAY 2020 11:54:37



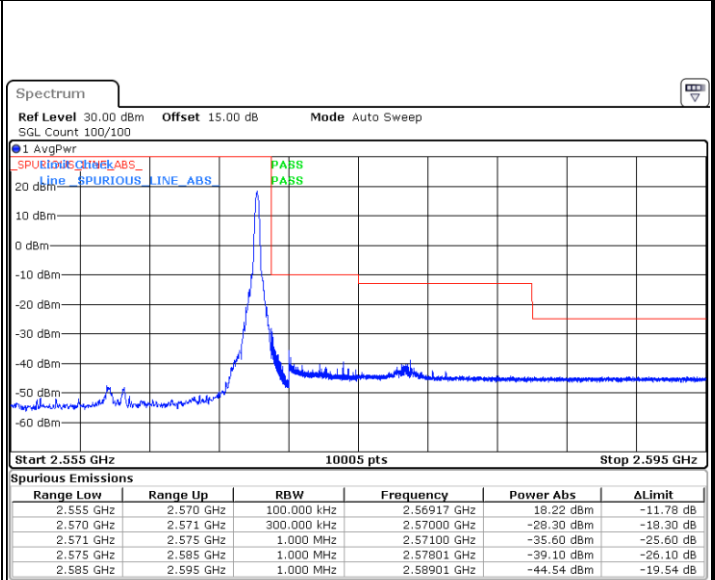
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



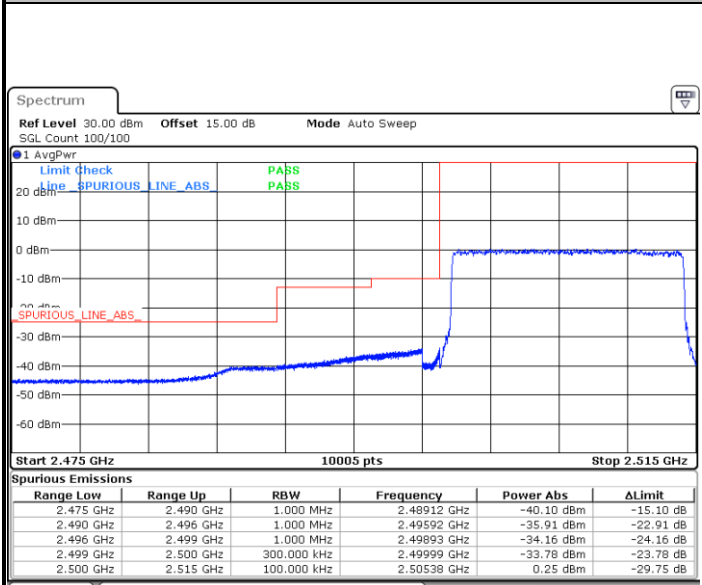
Date: 4 MAY 2020 13:48:32

Highest Band Edge / 1 RB



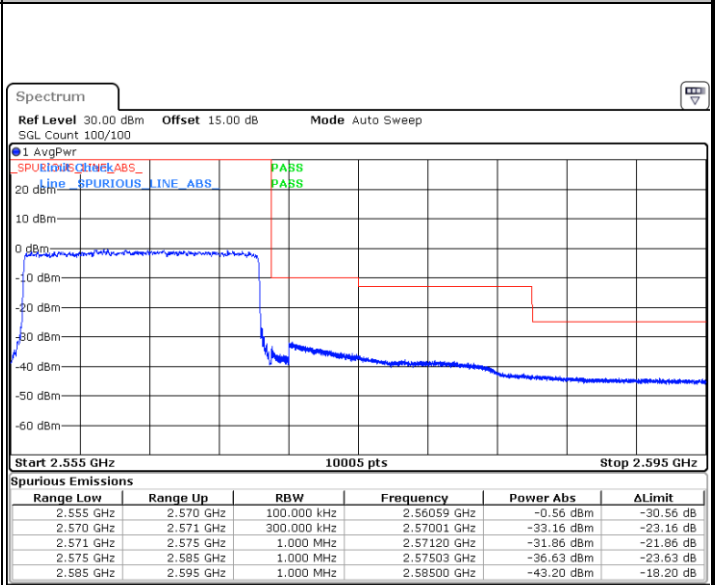
Date: 4 MAY 2020 13:49:41

Lowest Band Edge / Full RB



Date: 4 MAY 2020 13:45:09

Highest Band Edge / Full RB

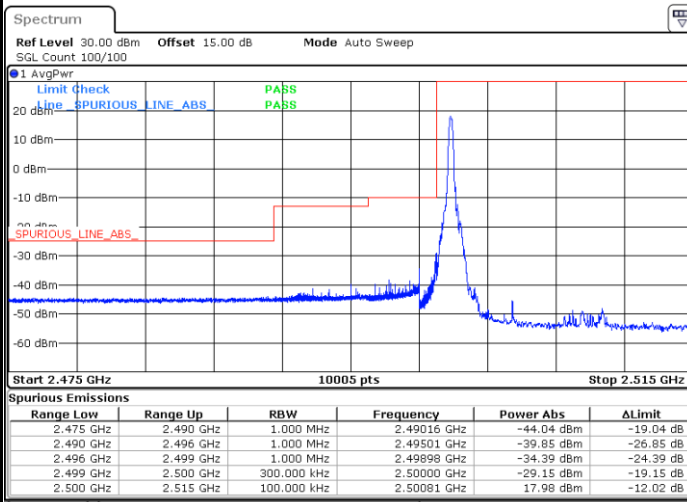


Date: 4 MAY 2020 13:46:47



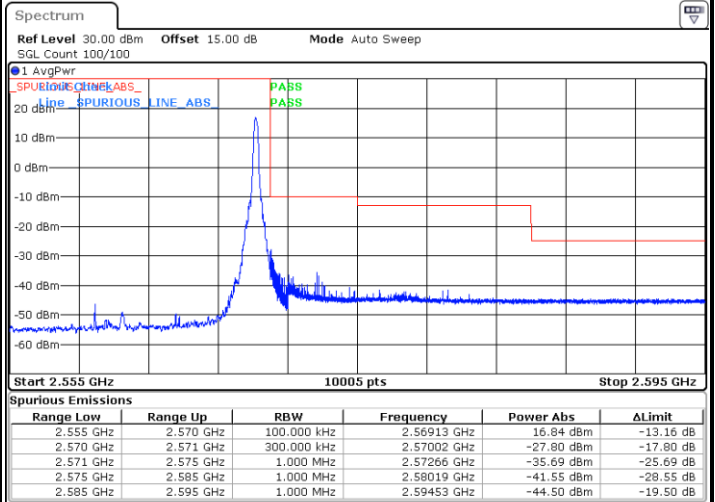
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



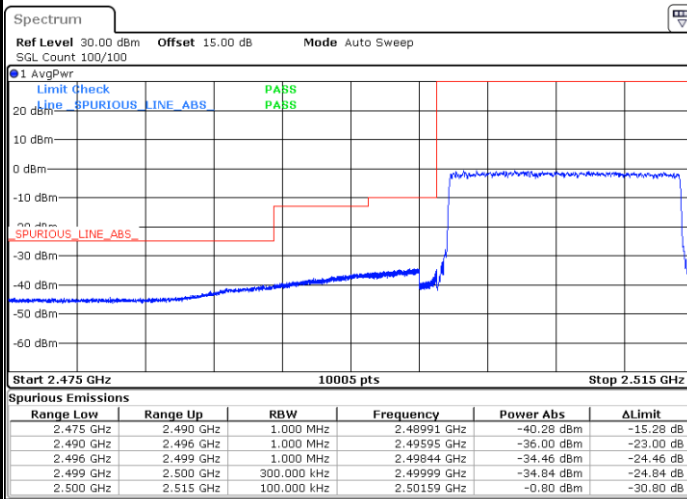
Date: 4 MAY 2020 13:48:50

Highest Band Edge / 1 RB



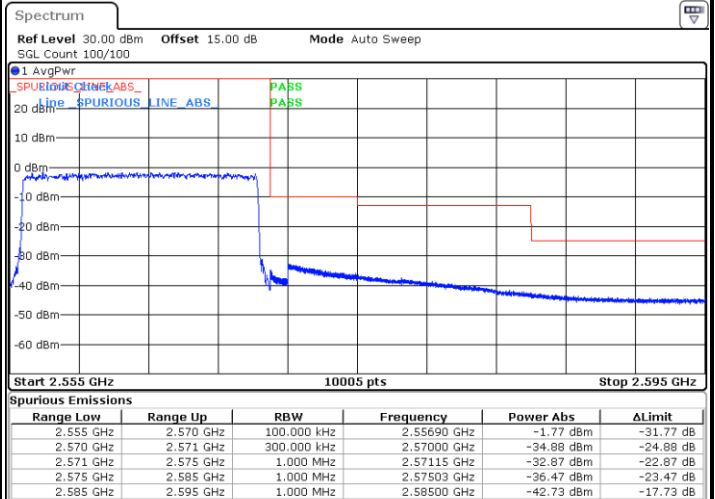
Date: 4 MAY 2020 13:50:05

Lowest Band Edge / Full RB



Date: 4 MAY 2020 13:45:32

Highest Band Edge / Full RB

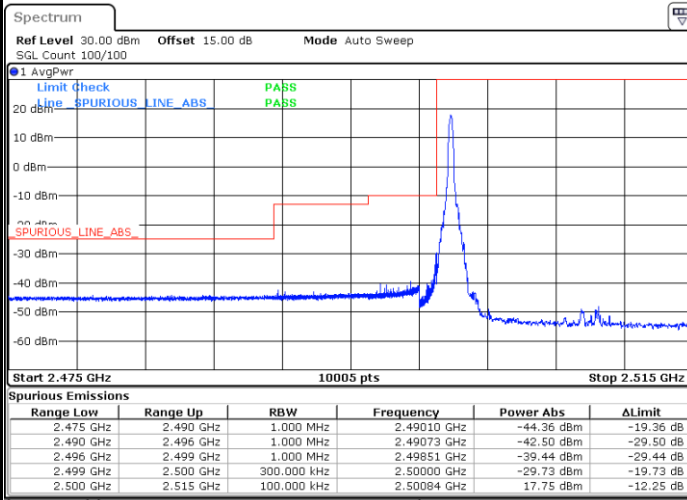


Date: 4 MAY 2020 13:47:20



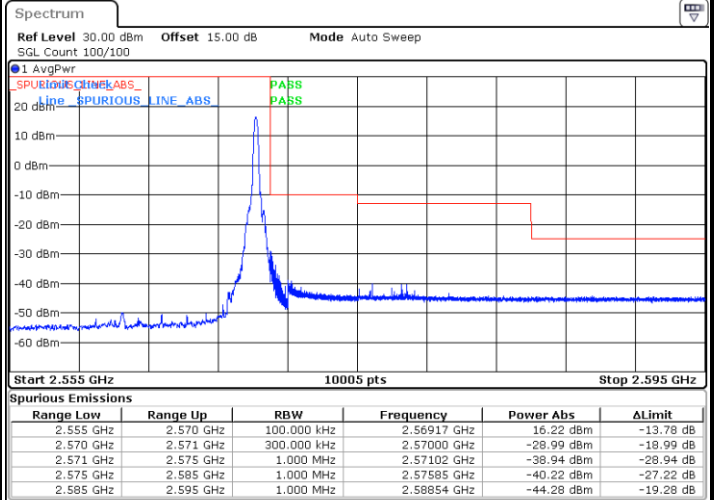
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



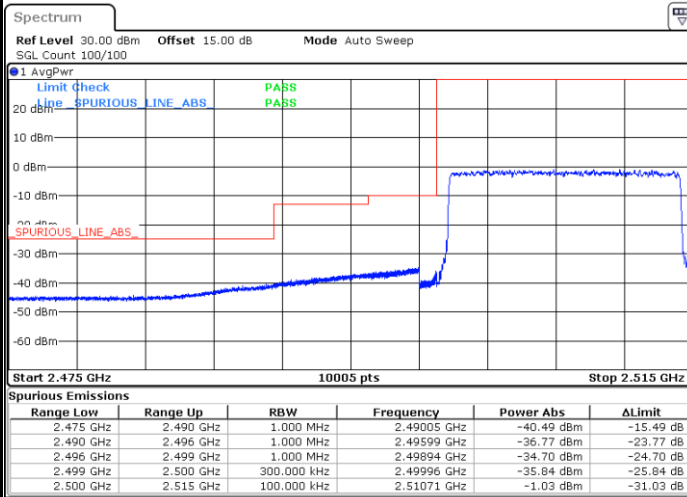
Date: 4 MAY 2020 13:49:14

Highest Band Edge / 1 RB



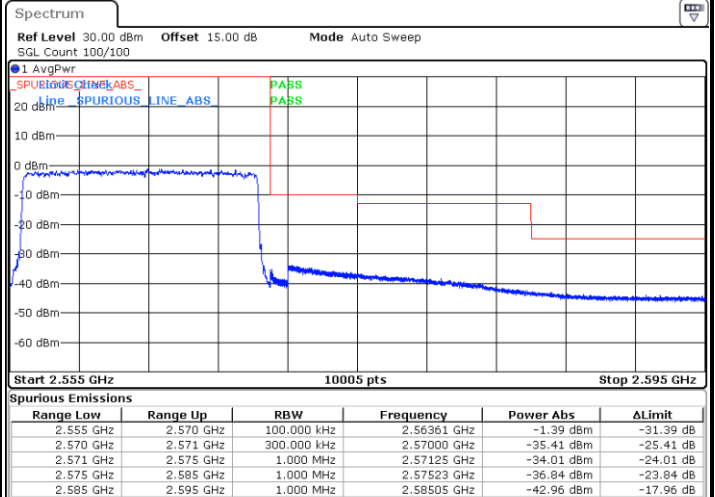
Date: 4 MAY 2020 13:50:33

Lowest Band Edge / Full RB



Date: 4 MAY 2020 13:45:50

Highest Band Edge / Full RB



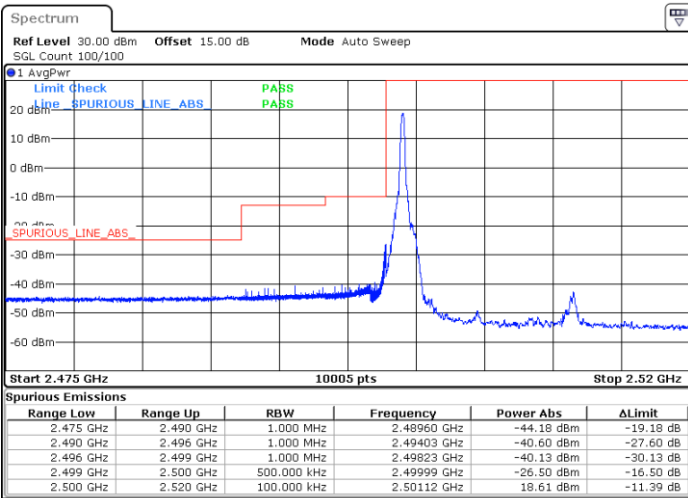
Date: 4 MAY 2020 13:47:54



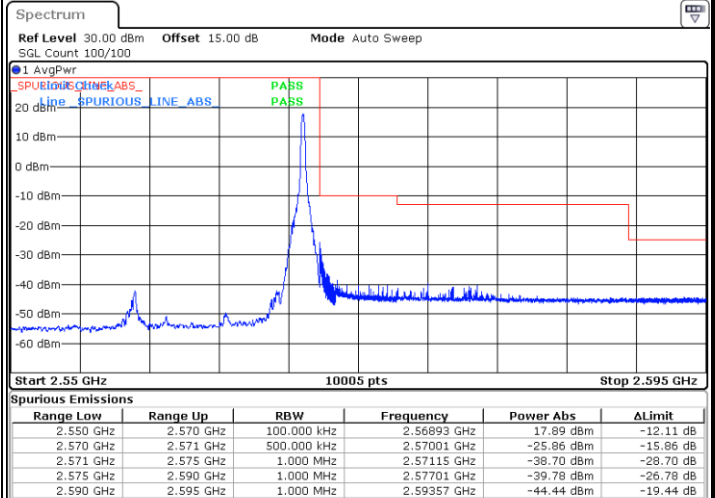
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



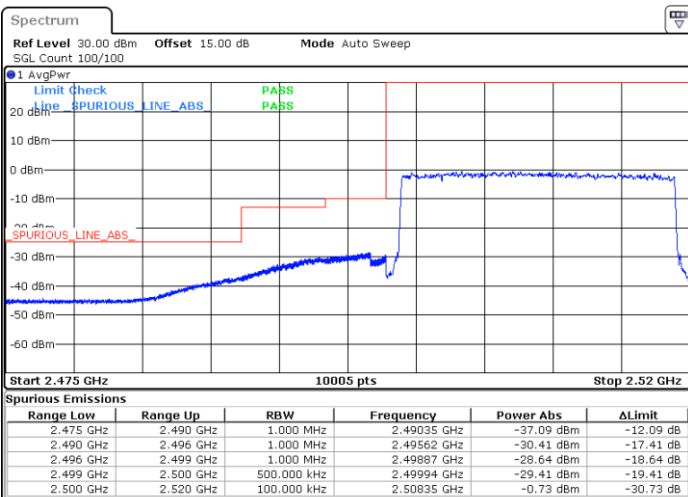
Date: 4 MAY 2020 14:10:24



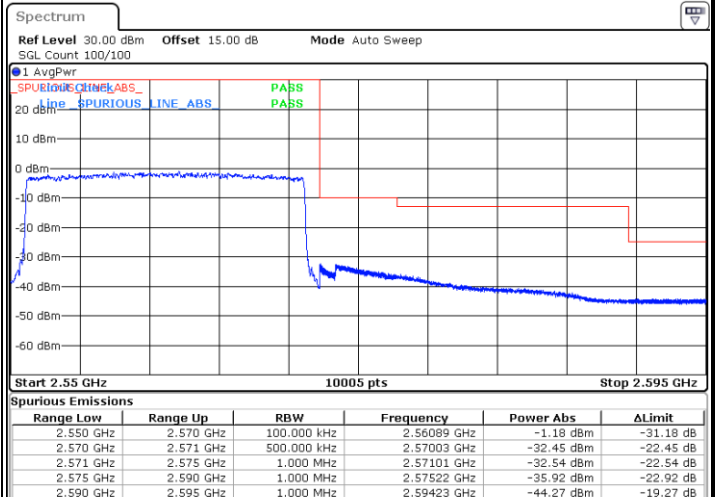
Date: 4 MAY 2020 14:12:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 MAY 2020 14:05:00

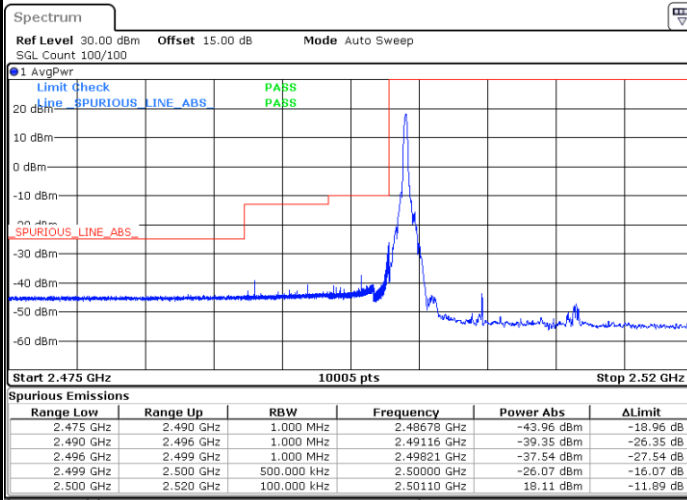


Date: 4 MAY 2020 14:07:36



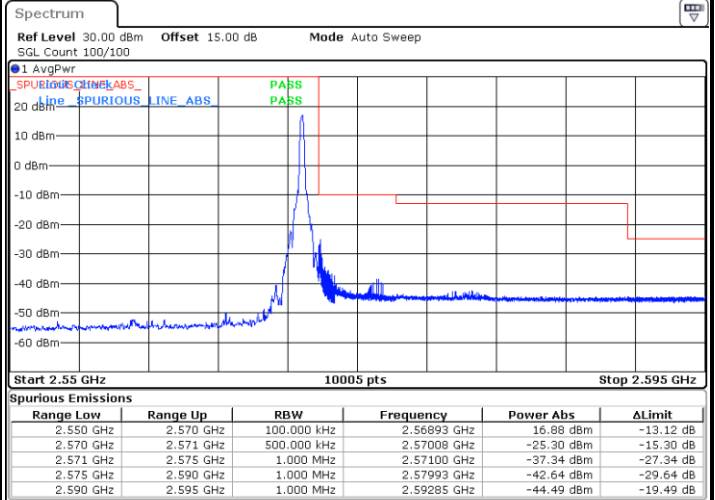
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



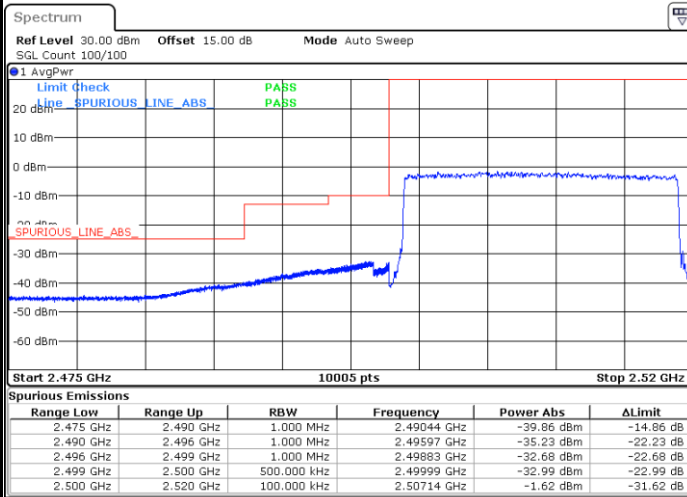
Date: 4 MAY 2020 14:10:48

Highest Band Edge / 1RB



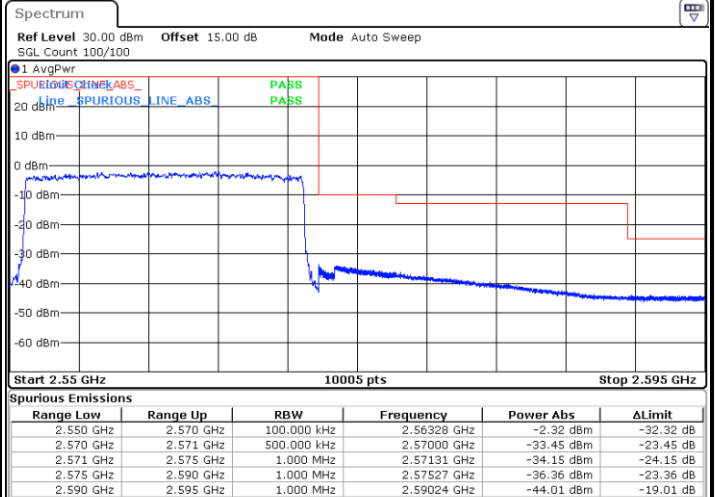
Date: 4 MAY 2020 14:12:37

Lowest Band Edge / Full RB



Date: 4 MAY 2020 14:06:24

Highest Band Edge / Full RB



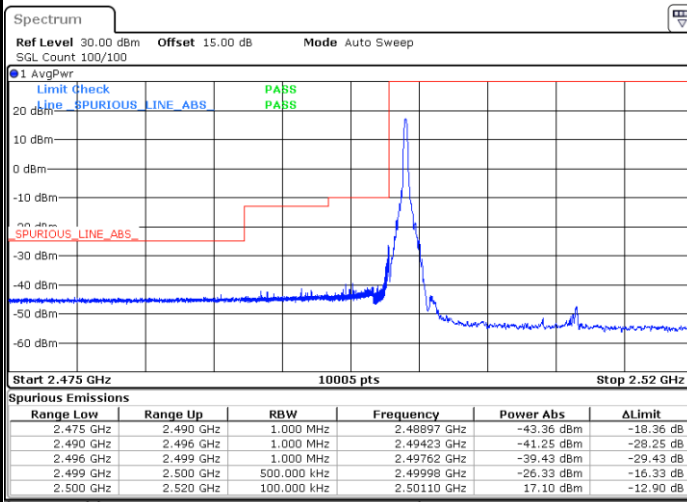
Date: 4 MAY 2020 14:08:32





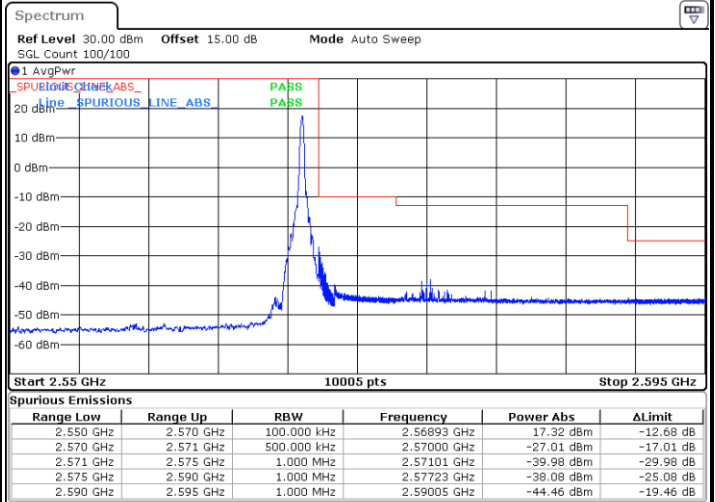
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



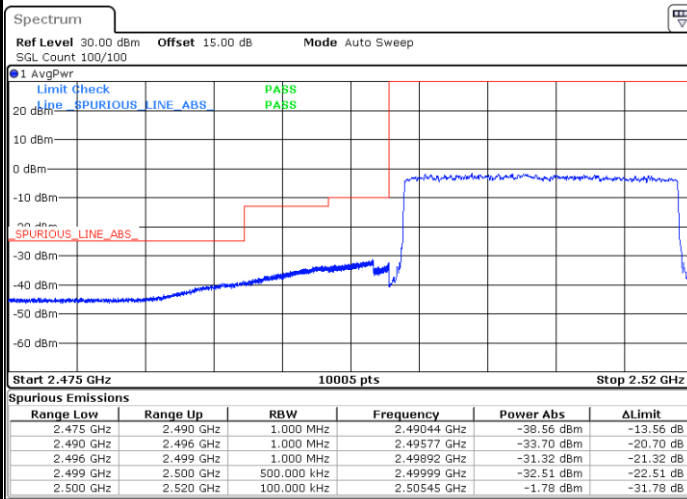
Date: 4 MAY 2020 14:11:22

Highest Band Edge / 1 RB



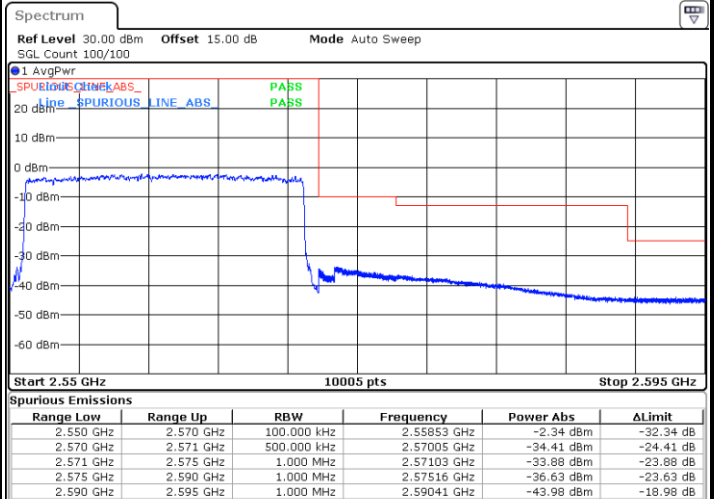
Date: 4 MAY 2020 14:13:36

Lowest Band Edge / Full RB



Date: 4 MAY 2020 14:06:58

Highest Band Edge / Full RB

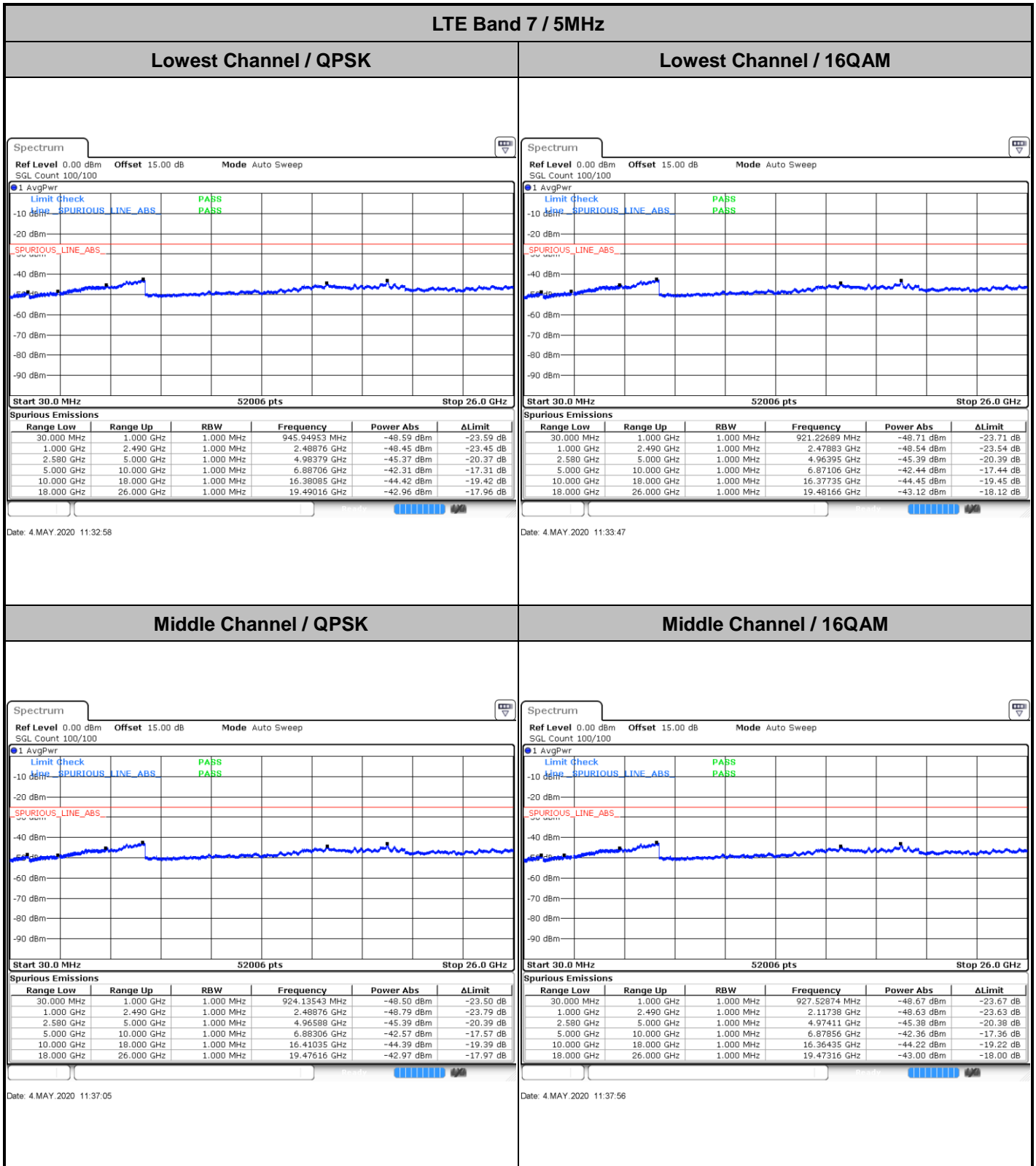


Date: 4 MAY 2020 14:09:09





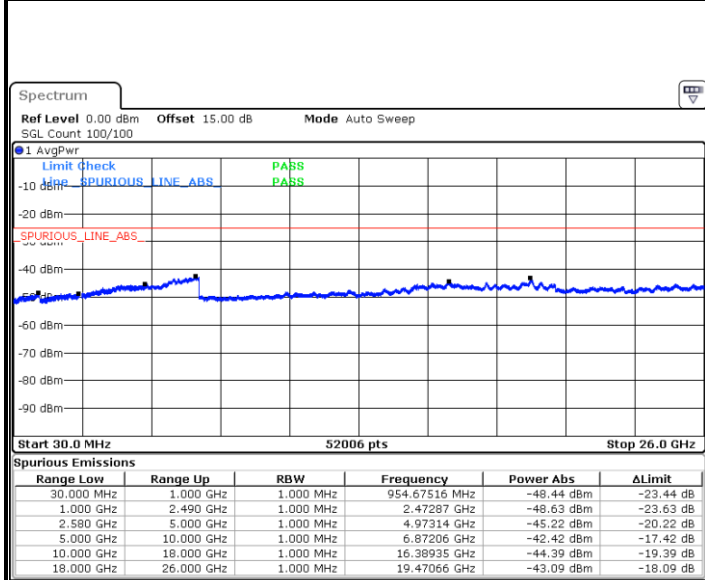
# Conducted Spurious Emission





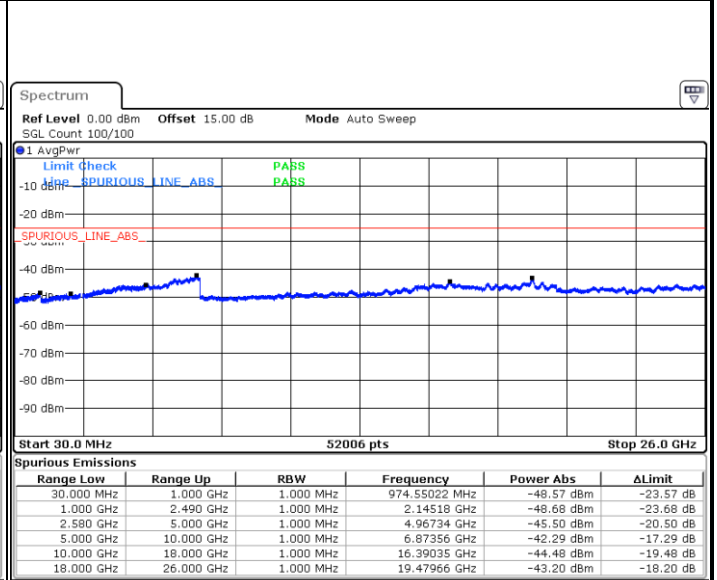
**LTE Band 7 / 5MHz**

**Highest Channel / QPSK**



Date: 4 MAY 2020 11:40:47

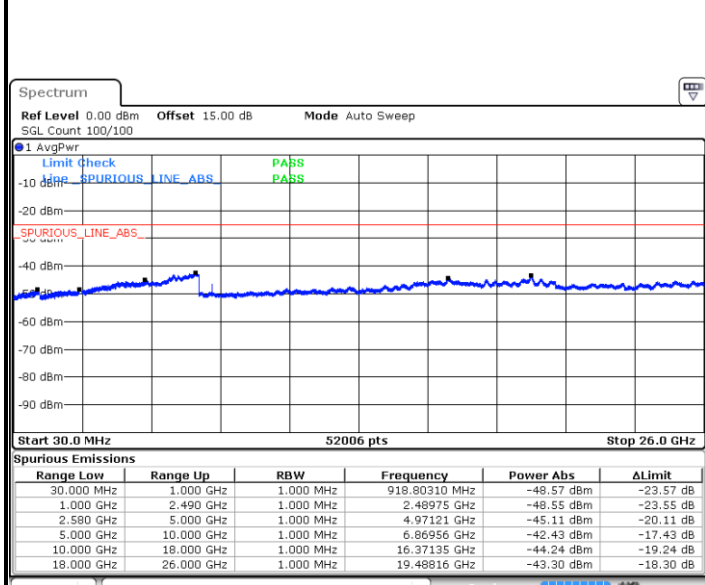
**Highest Channel / 16QAM**



Date: 4 MAY 2020 11:41:53

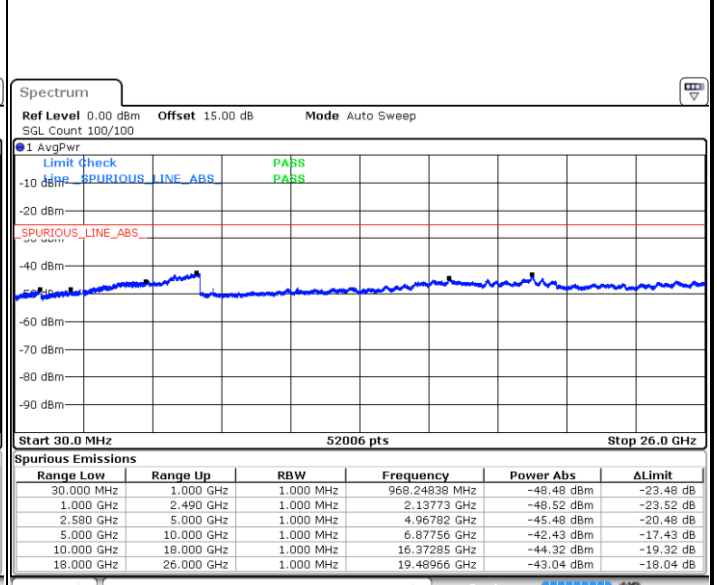
**LTE Band 7 / 10MHz**

**Lowest Channel / QPSK**



Date: 4 MAY 2020 13:39:42

**Lowest Channel / 16QAM**

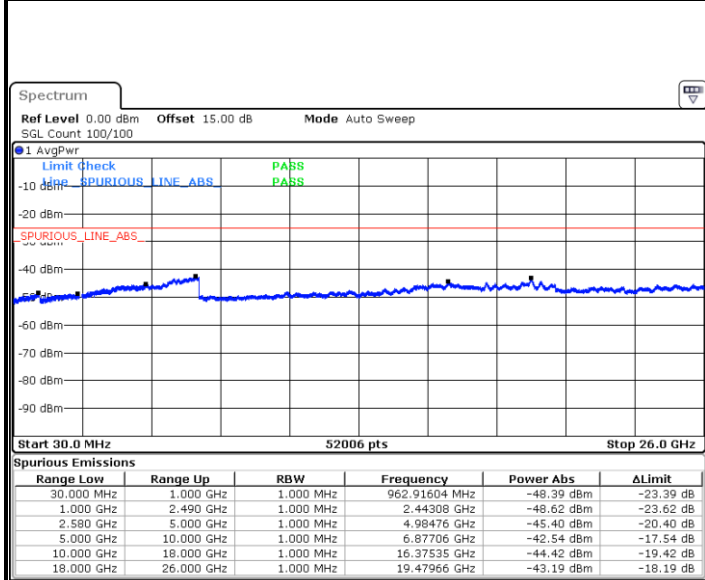


Date: 4 MAY 2020 13:32:17



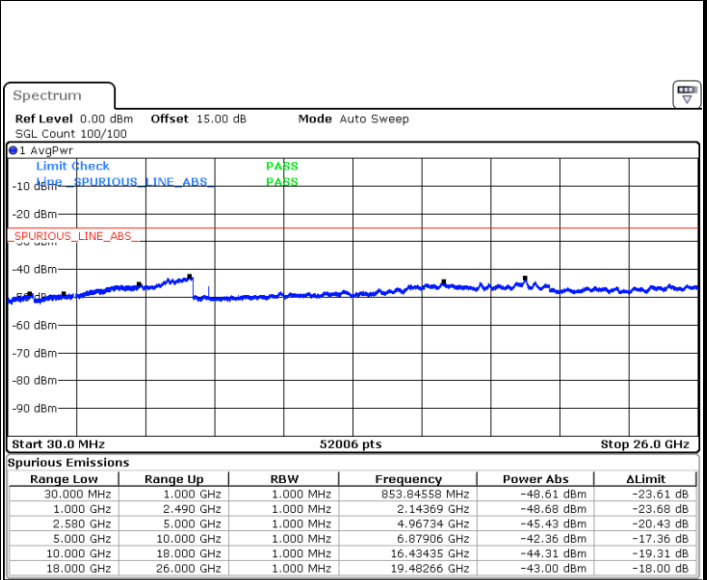
LTE Band 7 / 10MHz

Middle Channel / QPSK



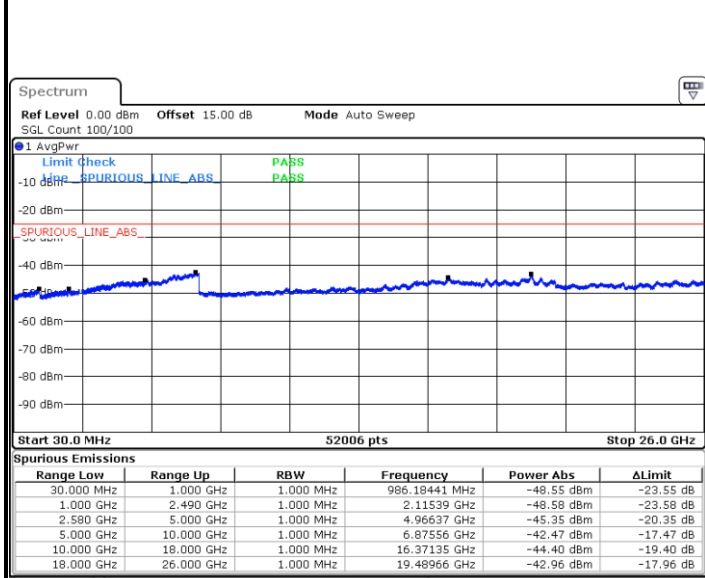
Date: 4 MAY 2020 13:40:45

Middle Channel / 16QAM



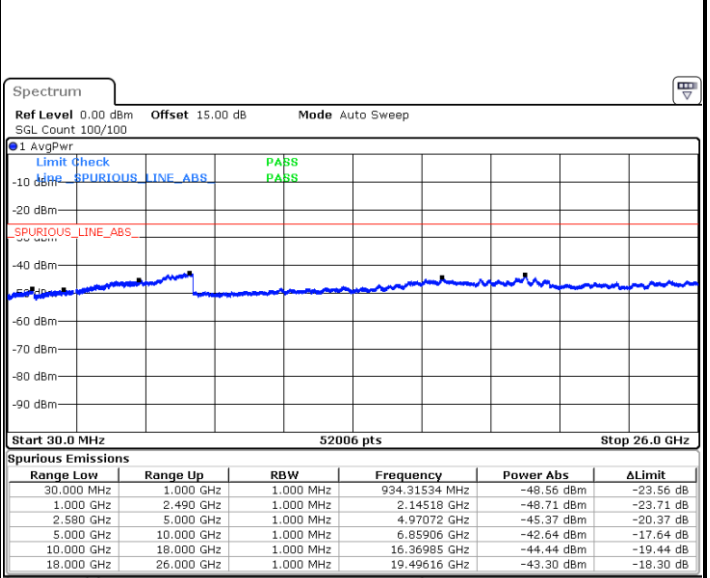
Date: 4 MAY 2020 11:59:58

Highest Channel / QPSK



Date: 4 MAY 2020 13:41:52

Highest Channel / 16QAM



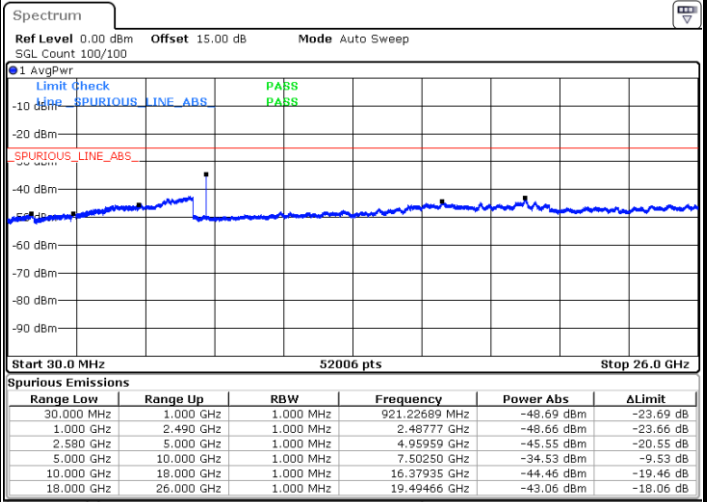
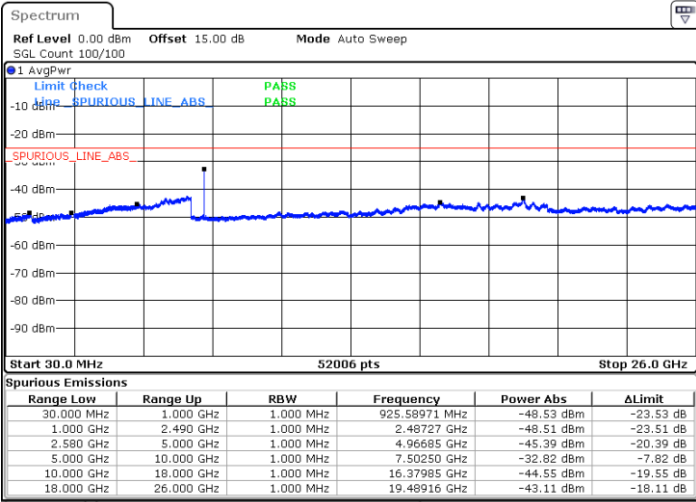
Date: 4 MAY 2020 13:42:48



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

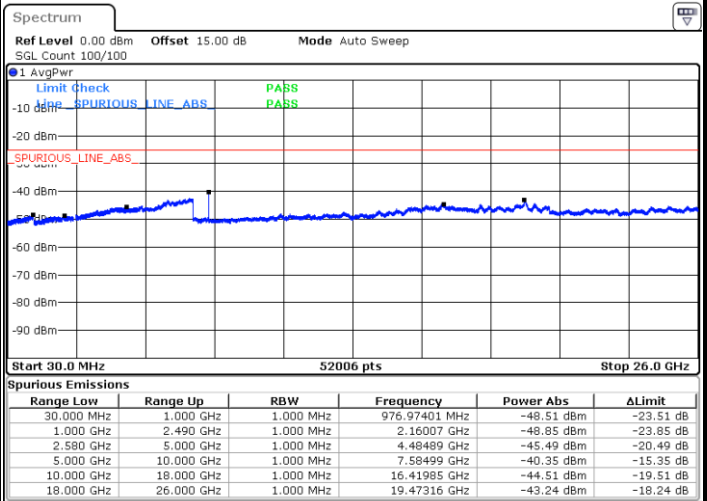
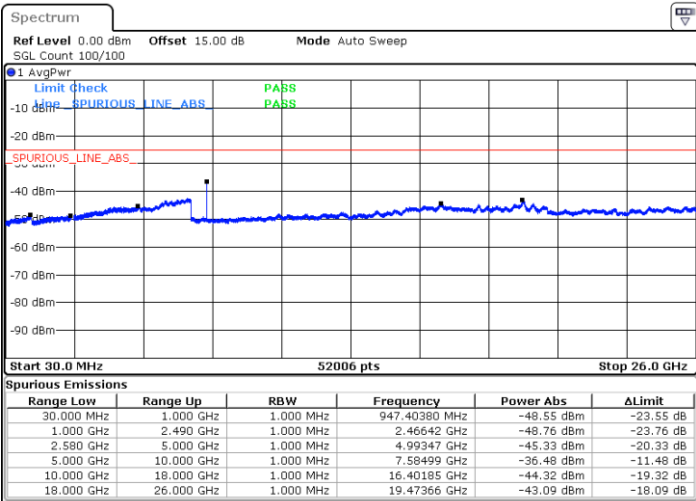


Date: 4 MAY 2020 13:52:05

Date: 4 MAY 2020 13:52:58

Middle Channel / QPSK

Middle Channel / 16QAM



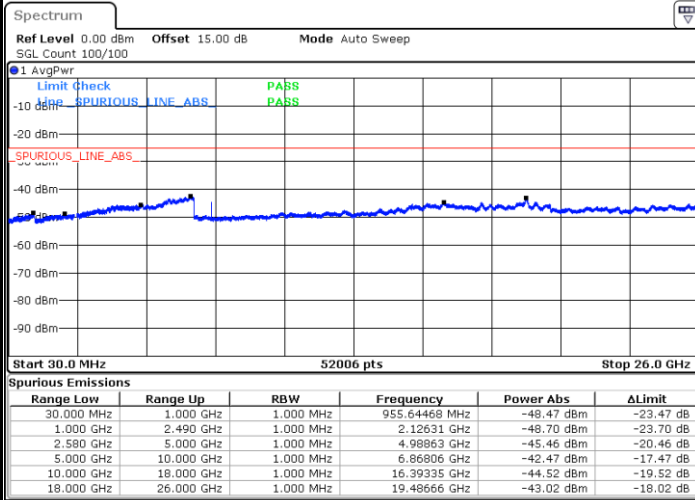
Date: 4 MAY 2020 13:57:00

Date: 4 MAY 2020 13:58:11



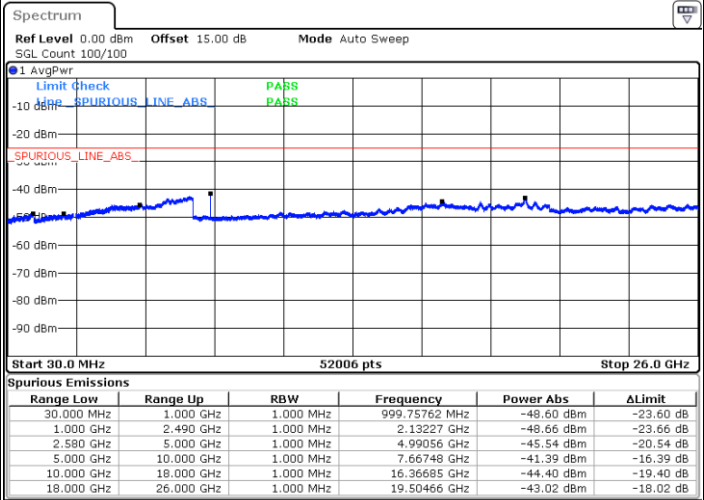
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 4 MAY 2020 14:00:14

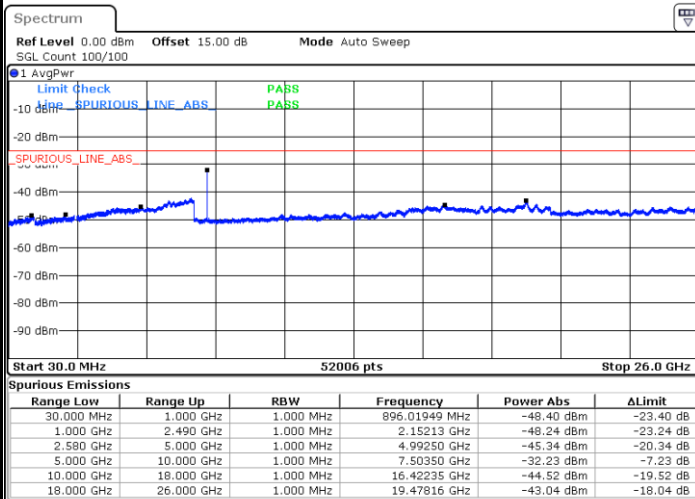
Highest Channel / 16QAM



Date: 4 MAY 2020 14:01:10

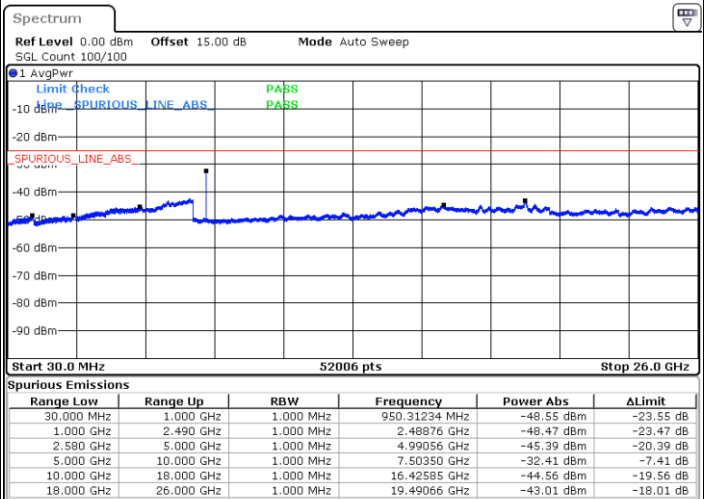
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 4 MAY 2020 14:18:04

Lowest Channel / 16QAM



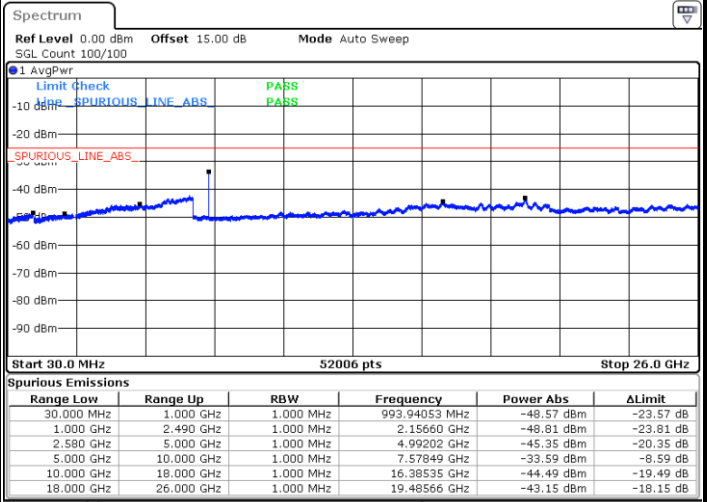
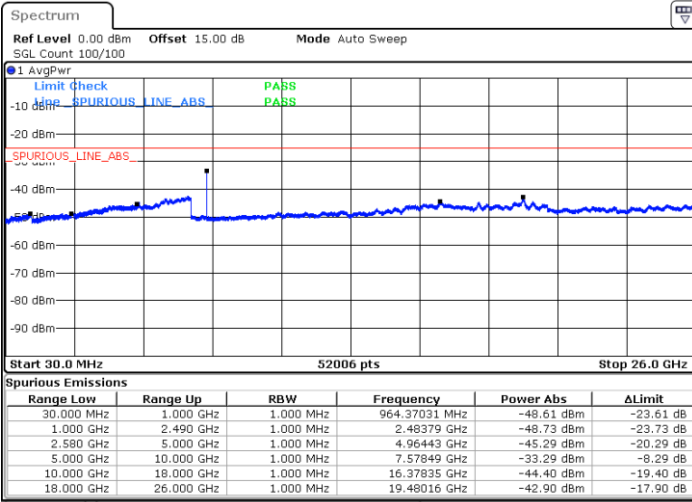
Date: 4 MAY 2020 14:20:43



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

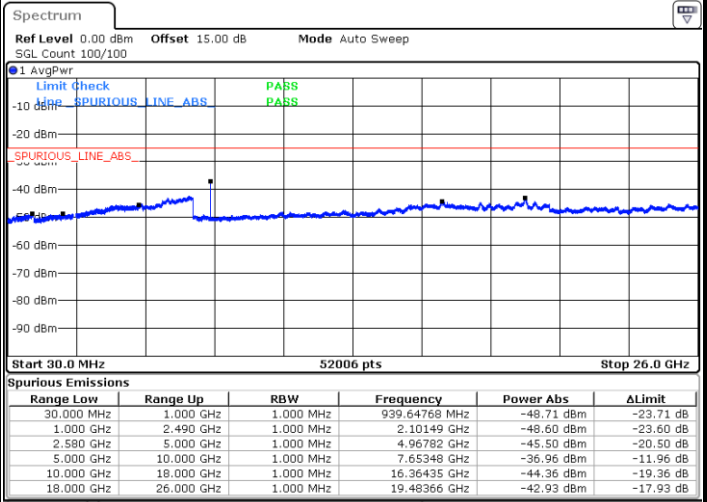
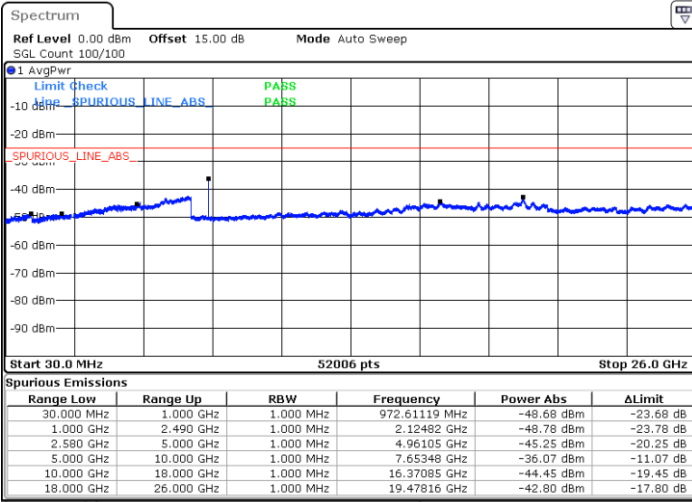


Date: 4 MAY.2020 14:22:59

Date: 4 MAY.2020 14:24:21

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 MAY.2020 14:26:53

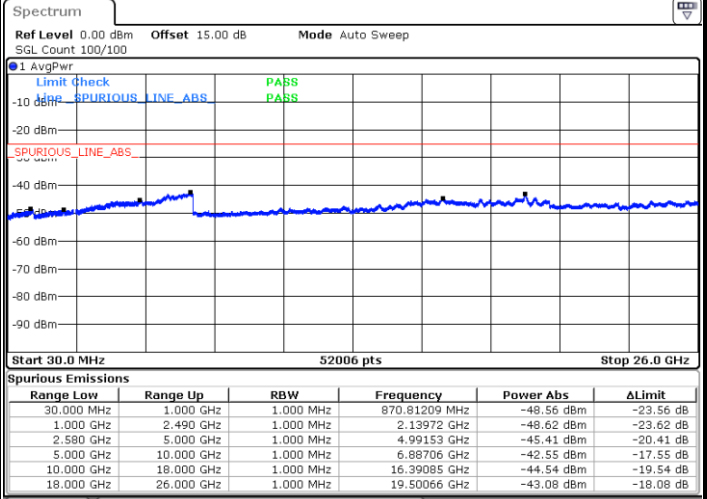
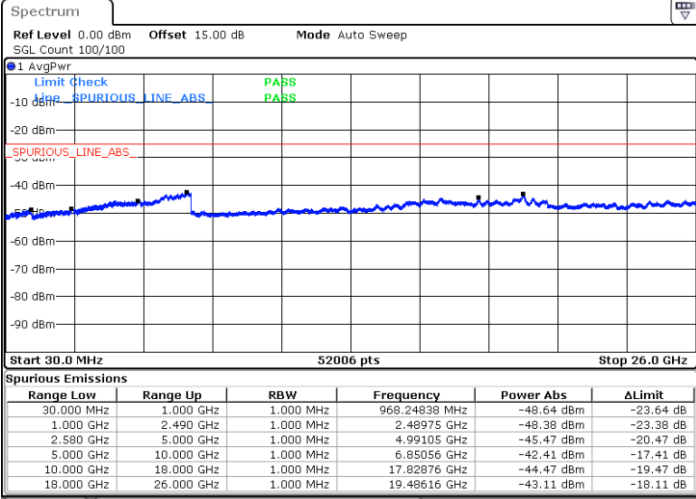
Date: 4 MAY.2020 14:28:01



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

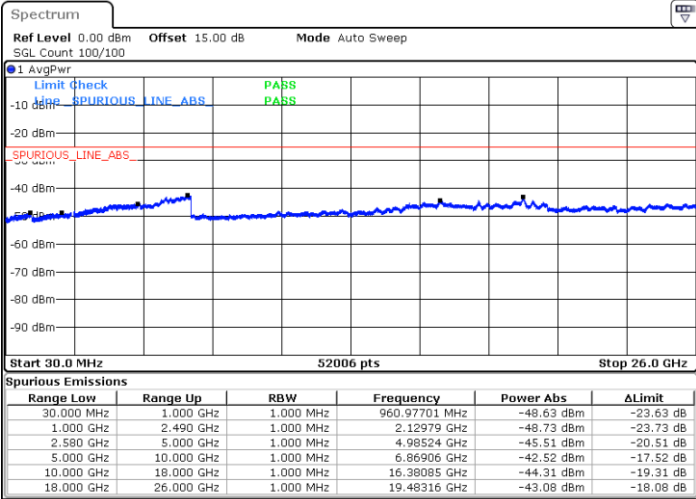
Middle Channel / 64QAM



Date: 4 MAY.2020 11:34:43

Date: 4 MAY.2020 11:38:50

Highest Channel / 64QAM



Date: 4 MAY.2020 11:42:50

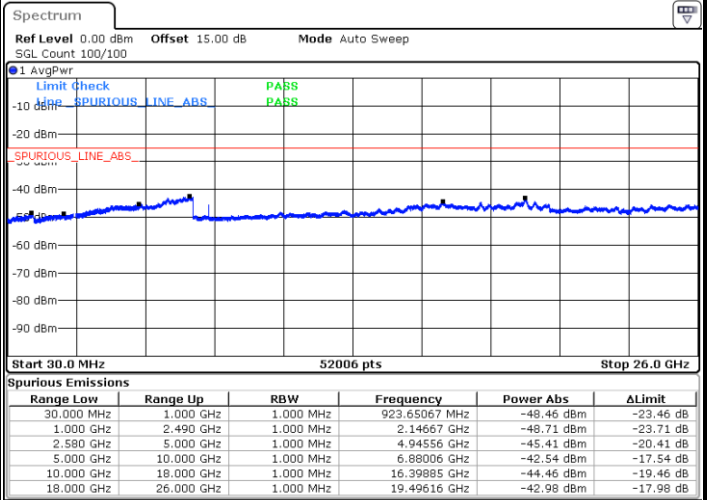
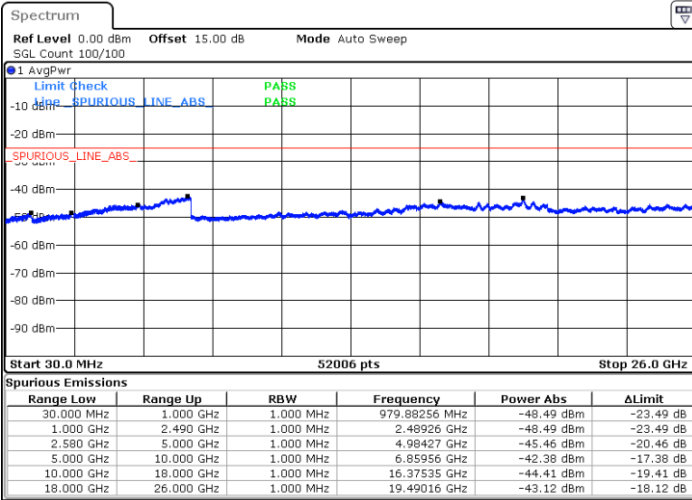




LTE Band 7 / 10MHz

Lowest Channel / 64QAM

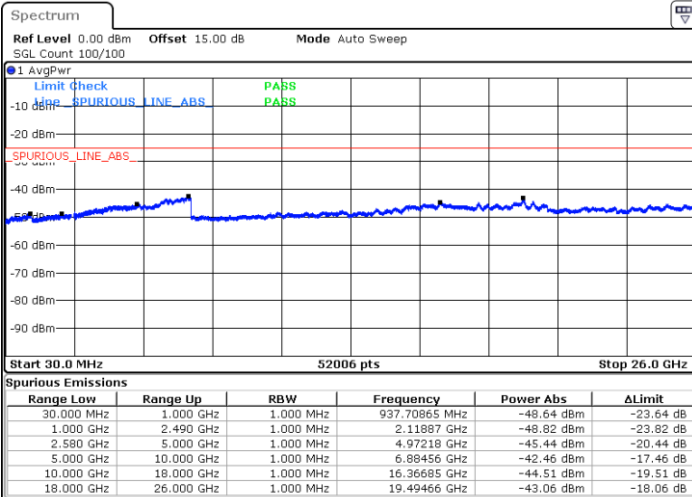
Middle Channel / 64QAM



Date: 4 MAY.2020 13:38:25

Date: 4 MAY.2020 11:58:58

Highest Channel / 64QAM



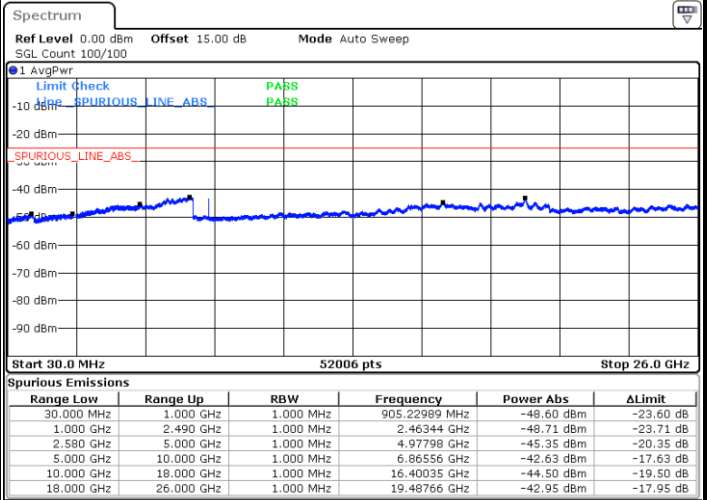
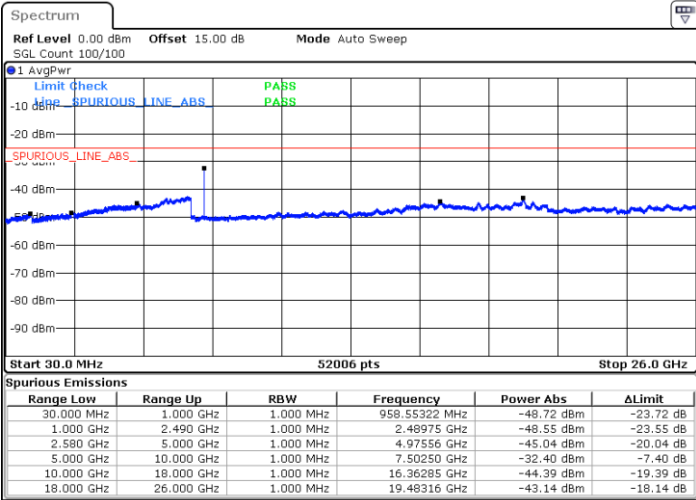
Date: 4 MAY.2020 13:43:41



LTE Band 7 / 15MHz

Lowest Channel / 64QAM

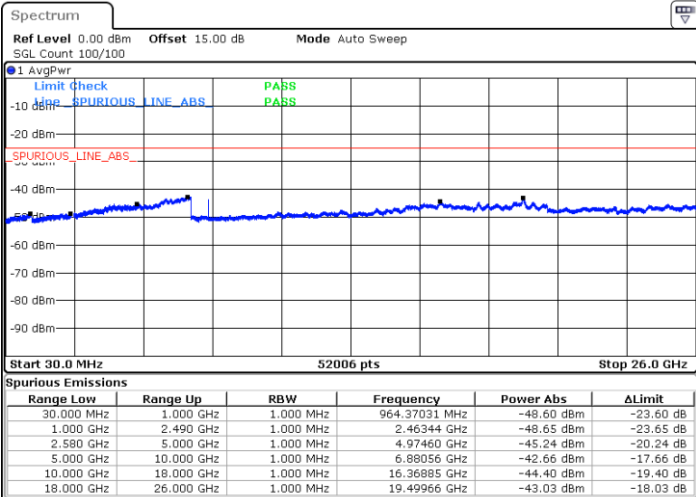
Middle Channel / 64QAM



Date: 4 MAY.2020 13:53:47

Date: 4 MAY.2020 13:59:04

Highest Channel / 64QAM



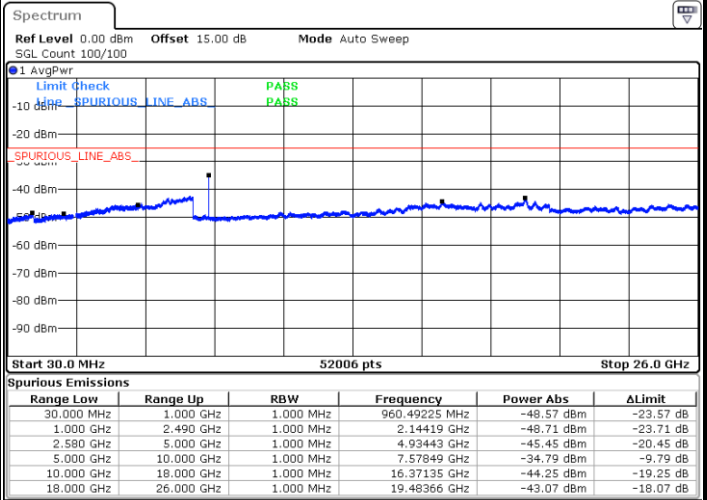
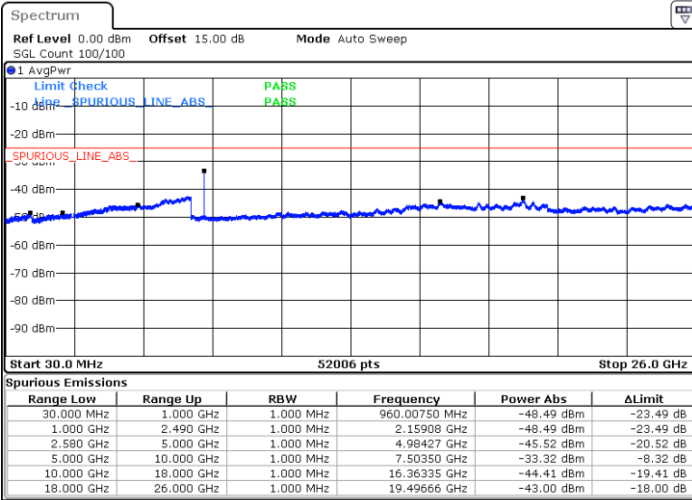
Date: 4 MAY.2020 14:02:11



LTE Band 7 / 20MHz

Lowest Channel / 64QAM

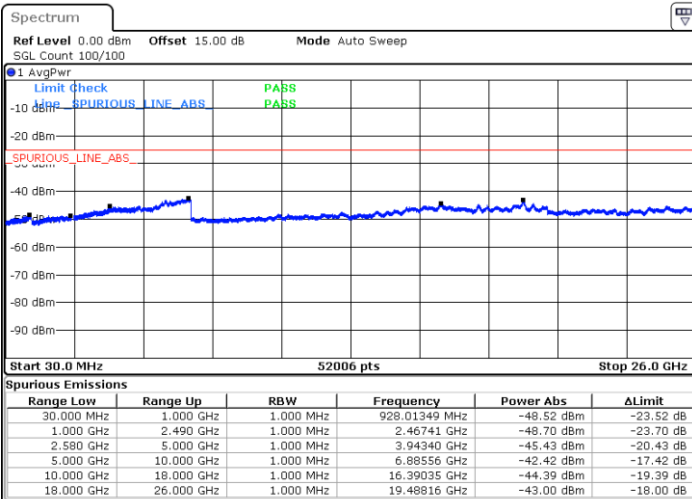
Middle Channel / 64QAM



Date: 4 MAY.2020 14:21:45

Date: 4 MAY.2020 14:25:45

Highest Channel / 64QAM



Date: 4 MAY.2020 14:30:49



### 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	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 38

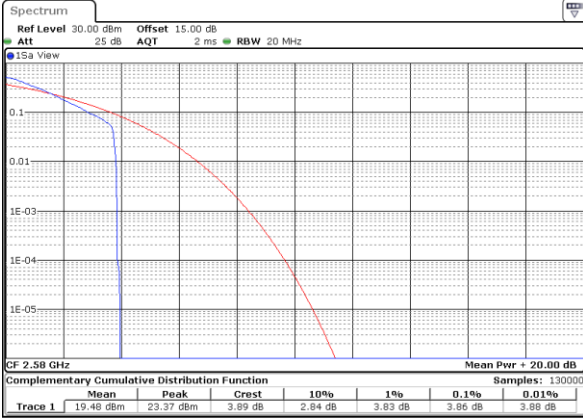
## Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.86	6.52	5.62	6.38	<b>PASS</b>
Middle CH	4.75	5.97	5.25	6.67	
Highest CH	3.94	5.48	5.77	6.17	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.77	6.49	-	-	<b>PASS</b>
Middle CH	5.62	6.32	-	-	
Highest CH	6.03	6.81	-	-	



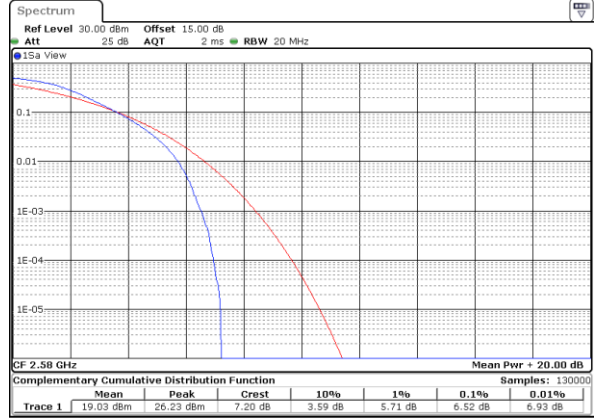
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



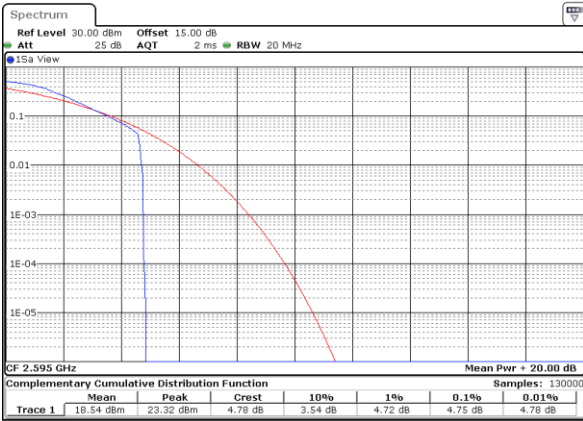
Date: 4.MAY.2020 03:03:30

Lowest Channel / Full RB



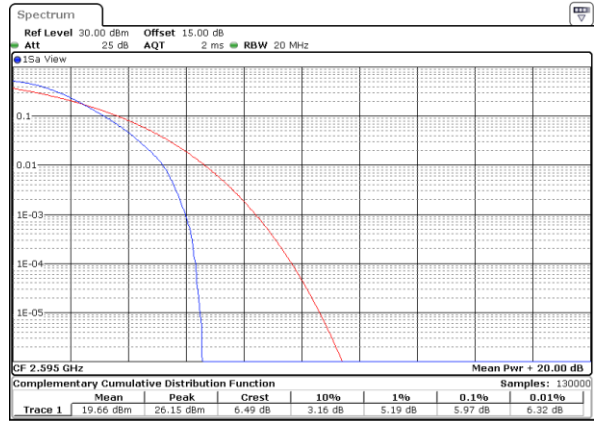
Date: 4.MAY.2020 03:00:44

Middle Channel / 1RB



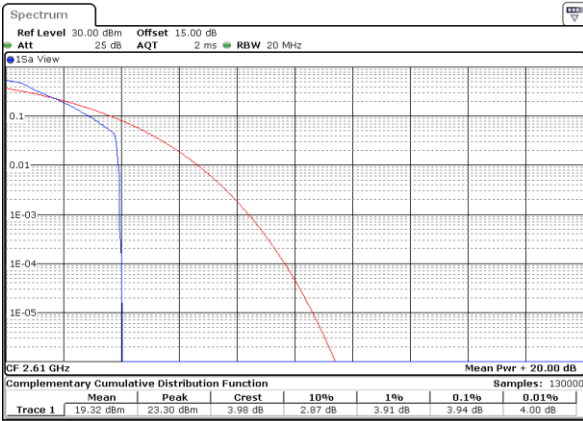
Date: 4.MAY.2020 03:03:58

Middle Channel / Full RB



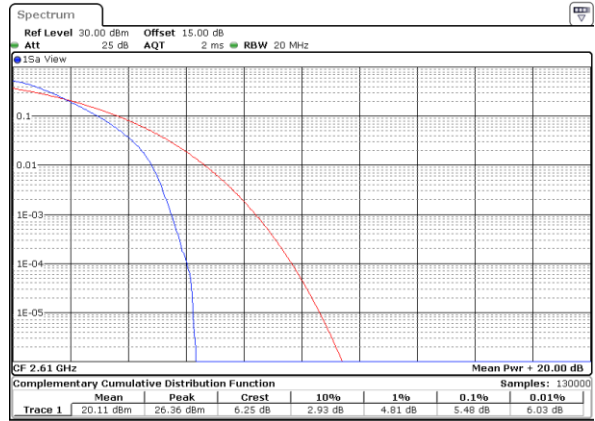
Date: 4.MAY.2020 03:06:31

Highest Channel / 1RB



Date: 4.MAY.2020 03:08:49

Highest Channel / Full RB

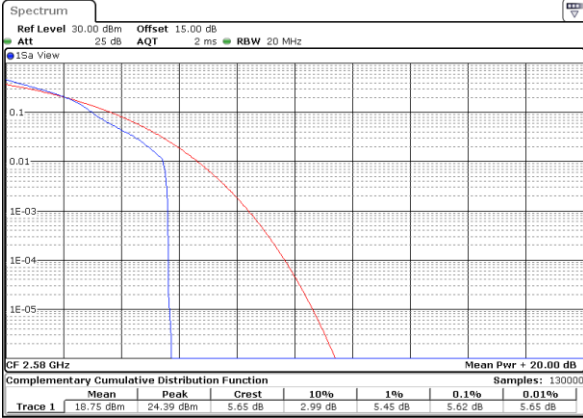


Date: 4.MAY.2020 03:06:43



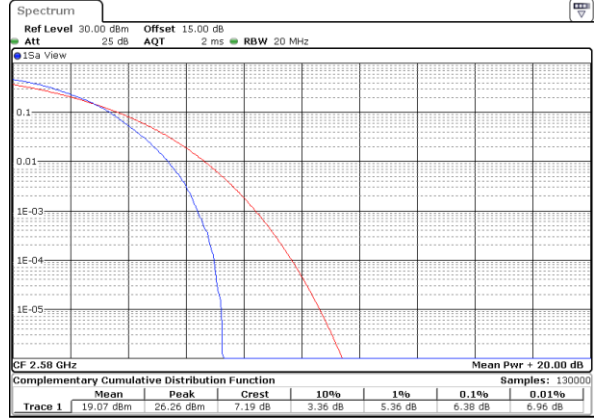
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



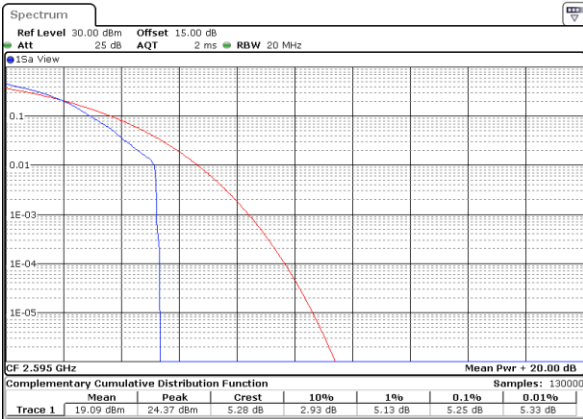
Date: 4.MAY.2020 03:03:05

Lowest Channel / Full RB



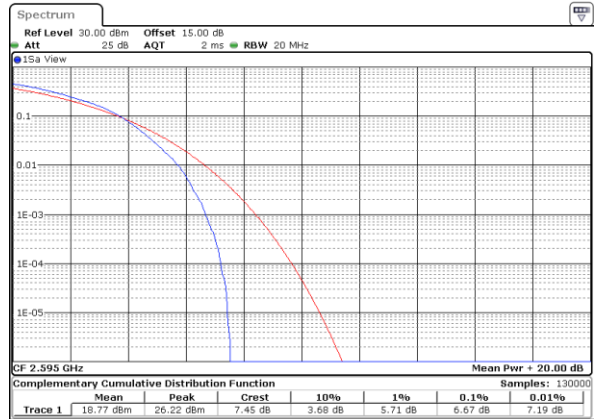
Date: 4.MAY.2020 03:01:17

Middle Channel / 1RB



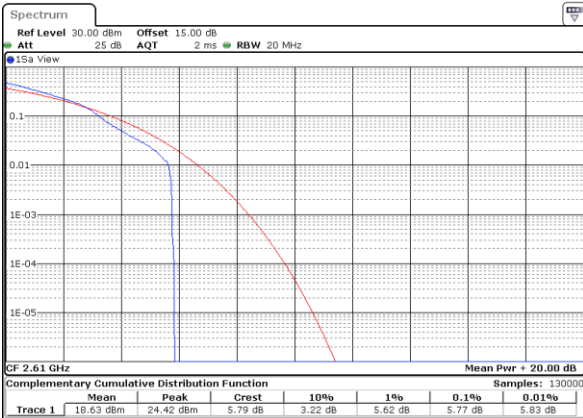
Date: 4.MAY.2020 03:04:25

Middle Channel / Full RB



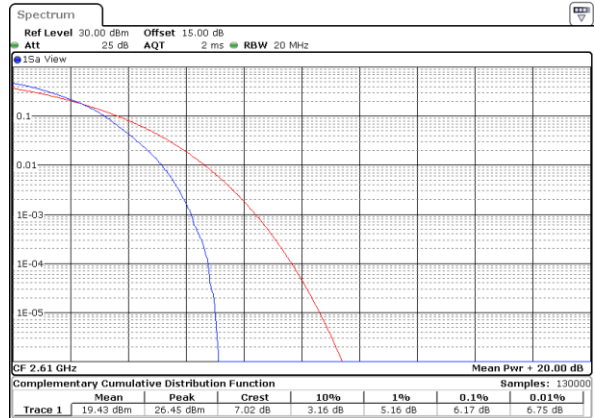
Date: 4.MAY.2020 03:06:11

Highest Channel / 1RB



Date: 4.MAY.2020 03:08:22

Highest Channel / Full RB



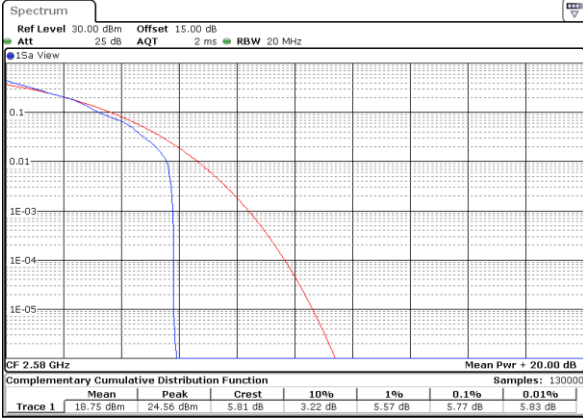
Date: 4.MAY.2020 03:07:13





LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 4.MAY.2020 03:02:136

Lowest Channel / Full RB



Date: 4.MAY.2020 03:02:16

Middle Channel / 1RB



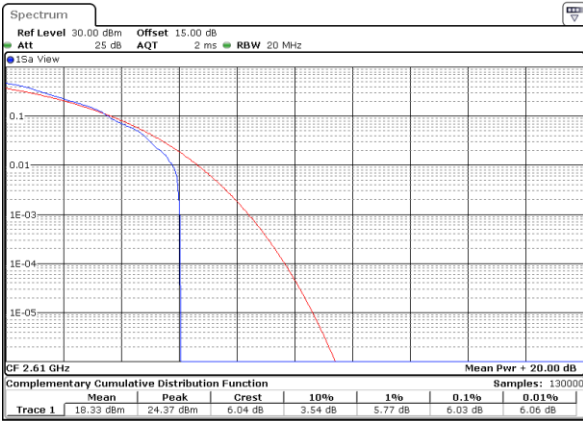
Date: 4.MAY.2020 03:04:159

Middle Channel / Full RB



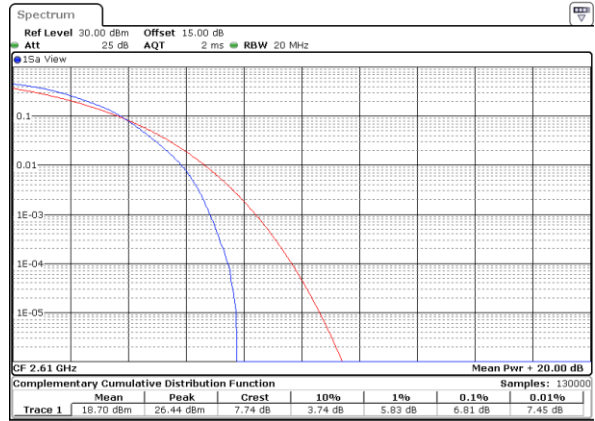
Date: 4.MAY.2020 03:05:133

Highest Channel / 1RB



Date: 4.MAY.2020 03:07:156

Highest Channel / Full RB



Date: 4.MAY.2020 03:07:131



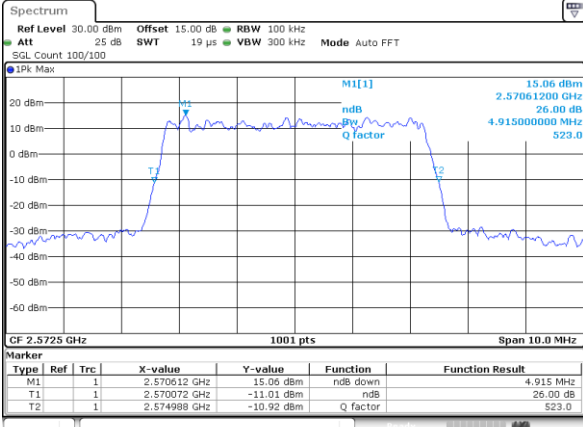
26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.92	4.90	9.63	9.87	14.30	14.30	18.94	18.70
Middle CH	-	-	-	-	4.90	4.93	9.67	9.63	14.12	14.24	18.78	18.74
Highest CH	-	-	-	-	4.93	4.78	9.79	9.63	14.21	14.51	18.86	18.74
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-	4.78	-	9.75	-	14.66	-	18.82	-
Middle CH	-	-	-	-	4.85	-	9.63	-	14.18	-	18.78	-
Highest CH	-	-	-	-	4.74	-	9.73	-	14.24	-	18.62	-



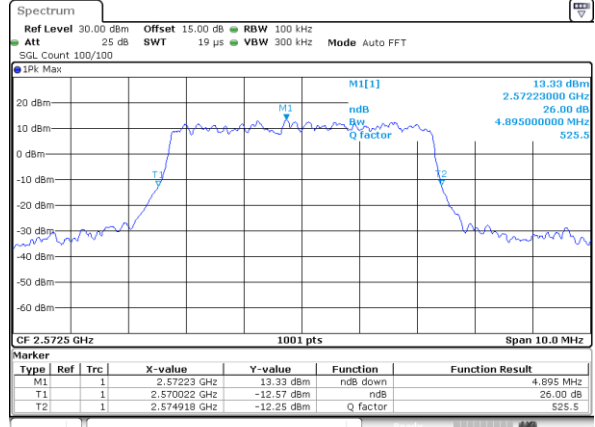
LTE Band 38

Lowest Channel / 5MHz / QPSK



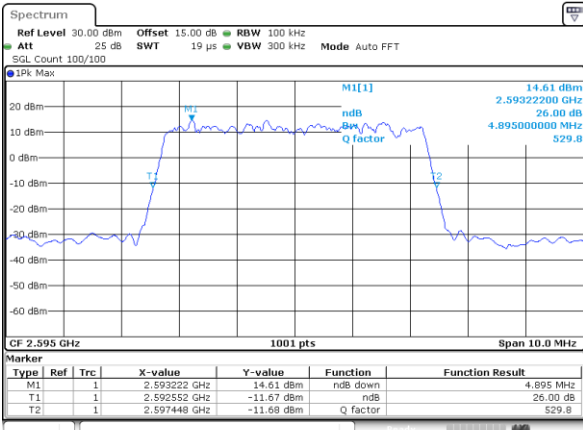
Date: 4.MAY.2020 02:42:22

Lowest Channel / 5MHz / 16QAM



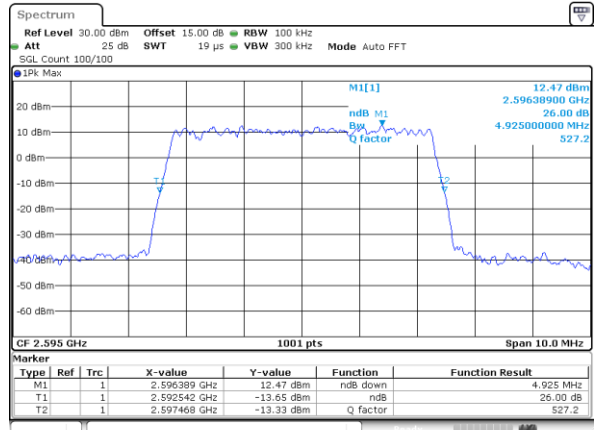
Date: 4.MAY.2020 02:42:33

Middle Channel / 5MHz / QPSK



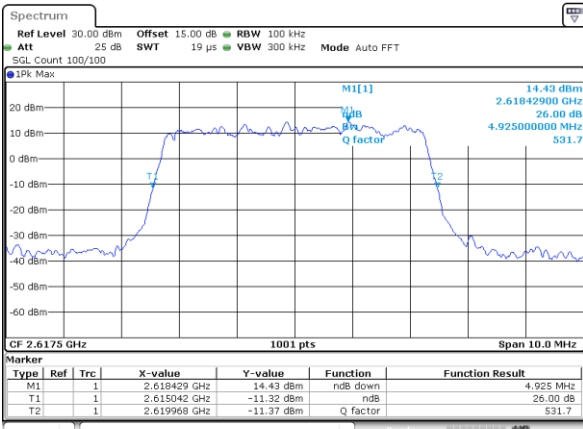
Date: 4.MAY.2020 02:43:06

Middle Channel / 5MHz / 16QAM



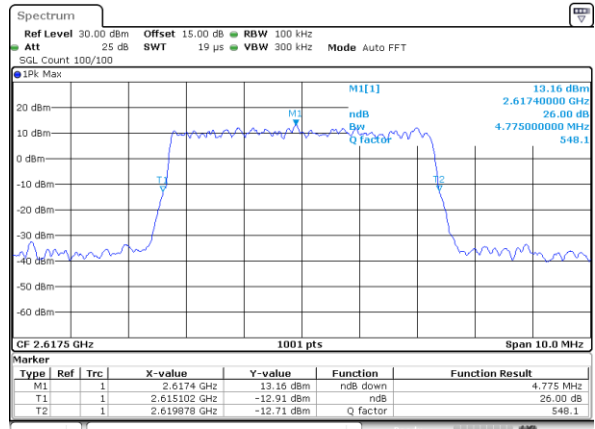
Date: 4.MAY.2020 02:43:17

Highest Channel / 5MHz / QPSK



Date: 4.MAY.2020 02:43:51

Highest Channel / 5MHz / 16QAM

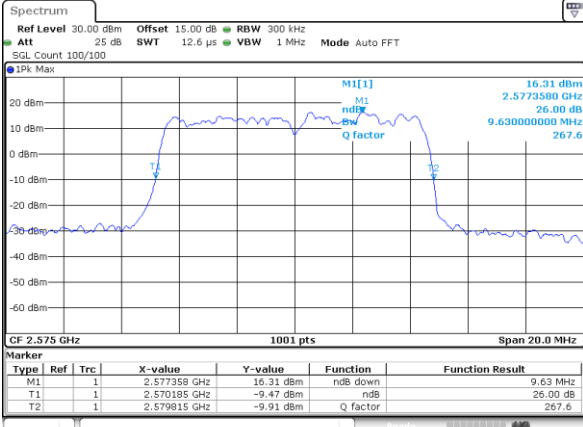


Date: 4.MAY.2020 02:44:02



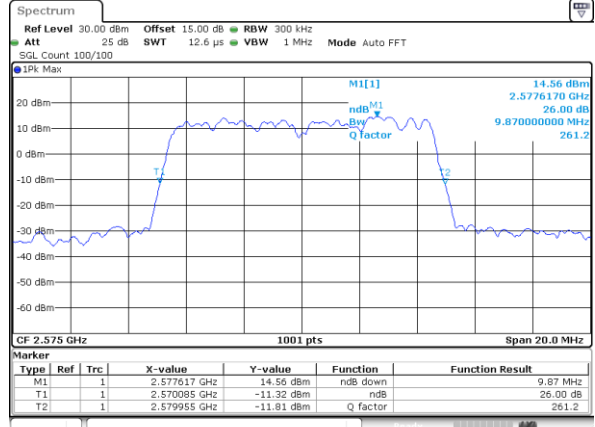
LTE Band 38

Lowest Channel / 10MHz / QPSK



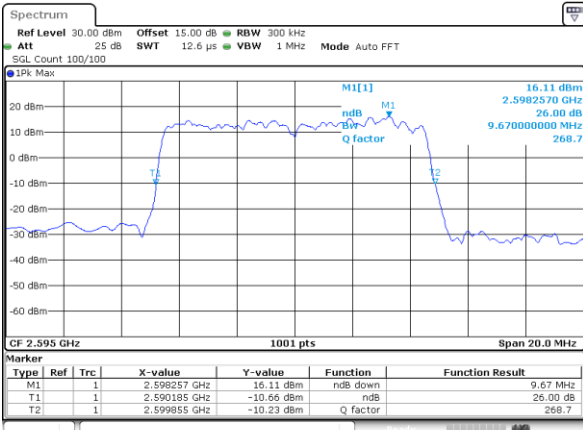
Date: 4.MAY.2020 02:44:35

Lowest Channel / 10MHz / 16QAM



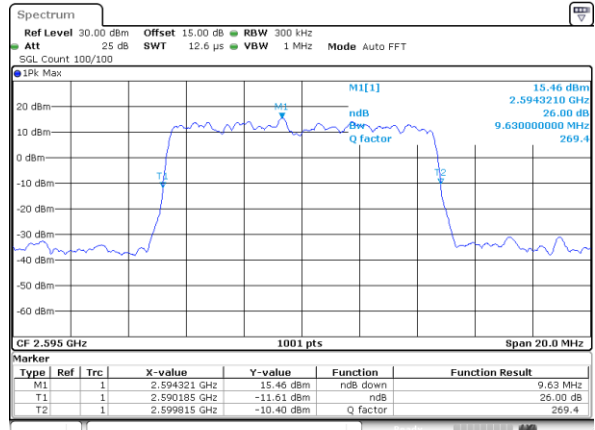
Date: 4.MAY.2020 02:44:46

Middle Channel / 10MHz / QPSK



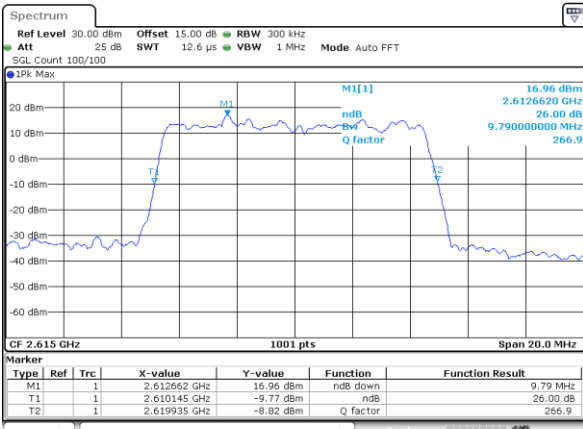
Date: 4.MAY.2020 02:45:19

Middle Channel / 10MHz / 16QAM



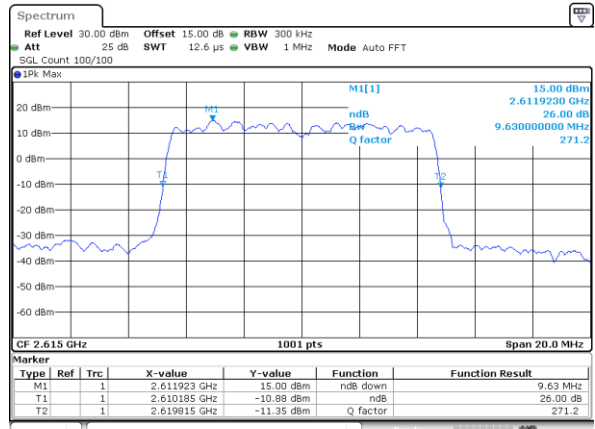
Date: 4.MAY.2020 02:45:30

Highest Channel / 10MHz / QPSK



Date: 4.MAY.2020 02:46:03

Highest Channel / 10MHz / 16QAM

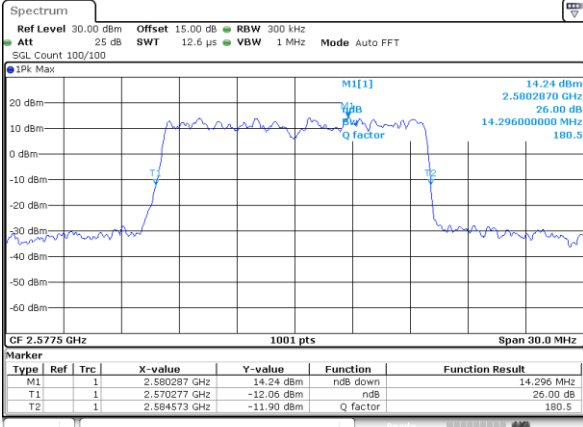


Date: 4.MAY.2020 02:46:14



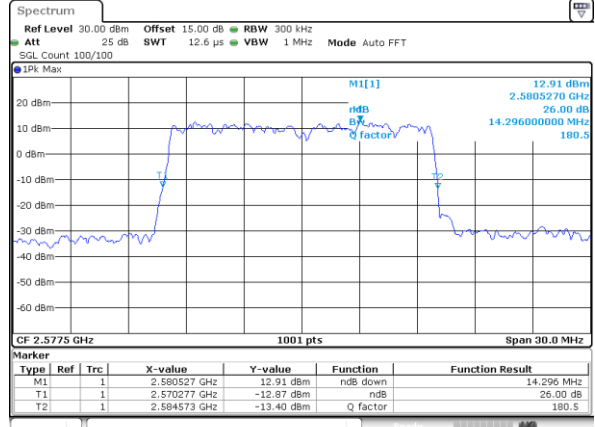
LTE Band 38

Lowest Channel / 15MHz / QPSK



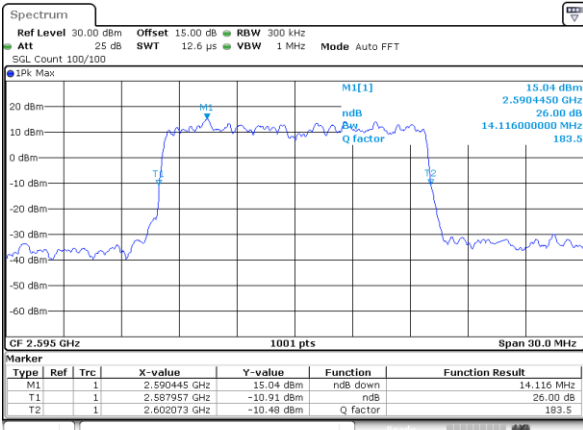
Date: 4.MAY.2020 02:46:47

Lowest Channel / 15MHz / 16QAM



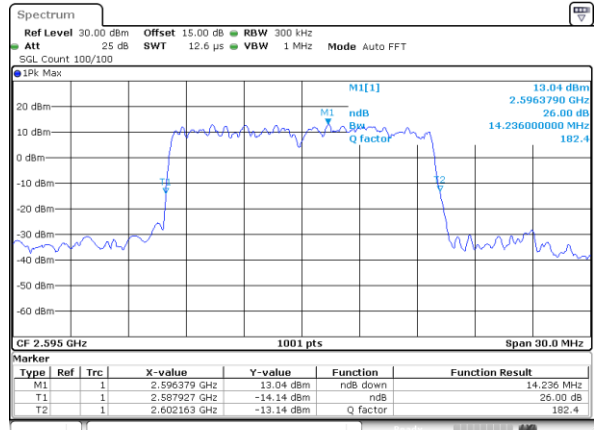
Date: 4.MAY.2020 02:46:58

Middle Channel / 15MHz / QPSK



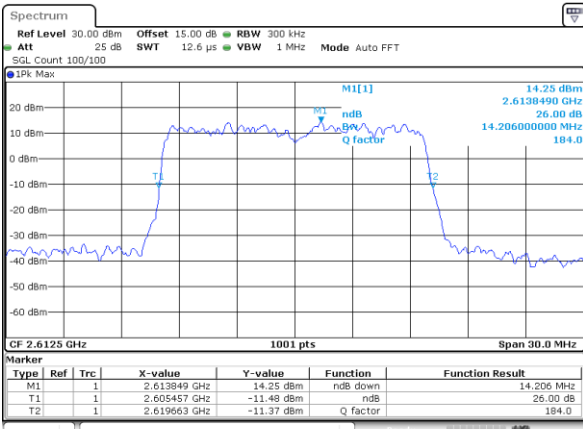
Date: 4.MAY.2020 02:47:32

Middle Channel / 15MHz / 16QAM



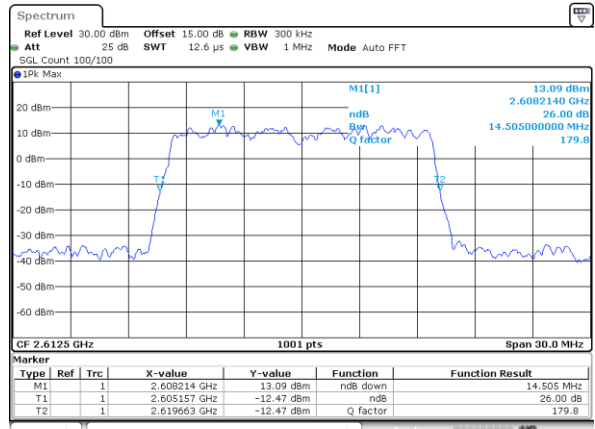
Date: 4.MAY.2020 02:47:43

Highest Channel / 15MHz / QPSK



Date: 4.MAY.2020 02:48:16

Highest Channel / 15MHz / 16QAM



Date: 4.MAY.2020 02:48:27