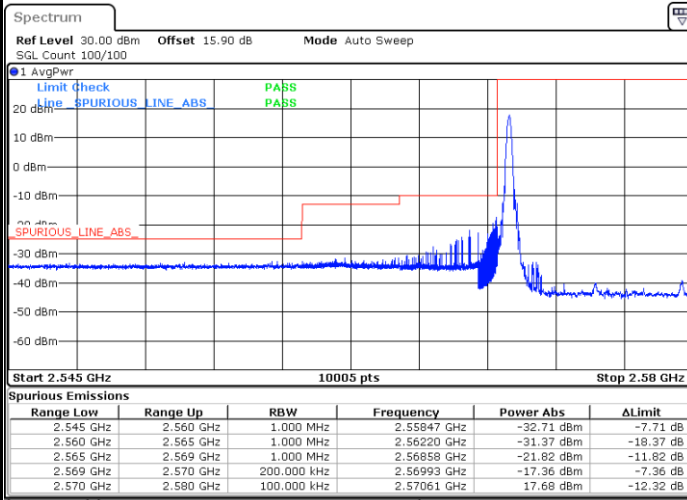




LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



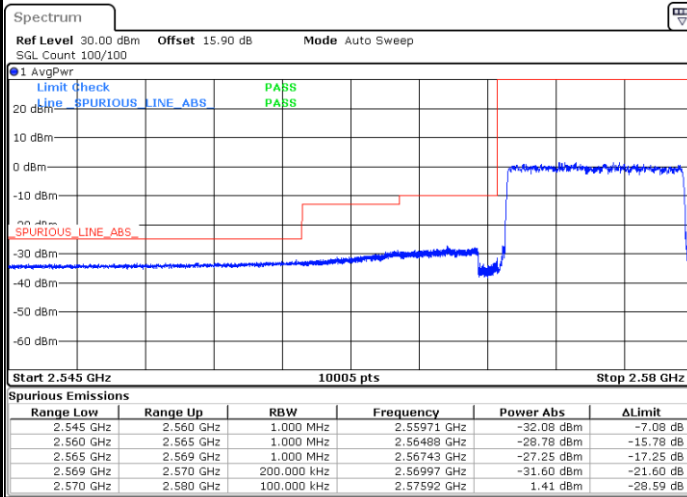
Date: 29.OCT.2019 11:02:51

Highest Band Edge / 1 RB



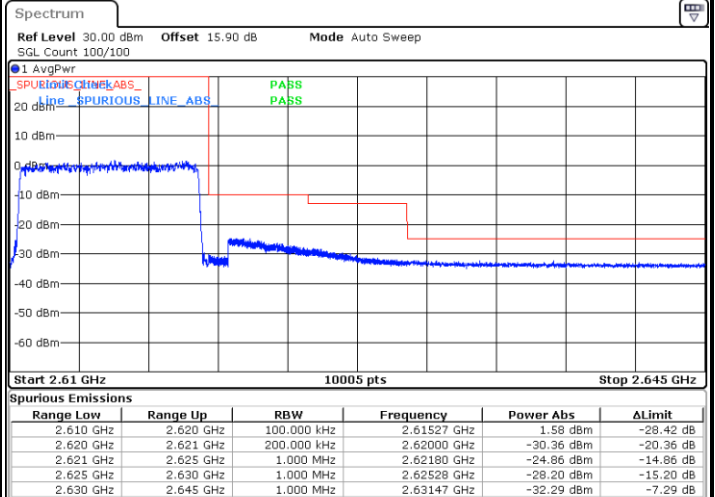
Date: 29.OCT.2019 11:11:12

Lowest Band Edge / Full RB



Date: 29.OCT.2019 11:05:38

Highest Band Edge / Full RB

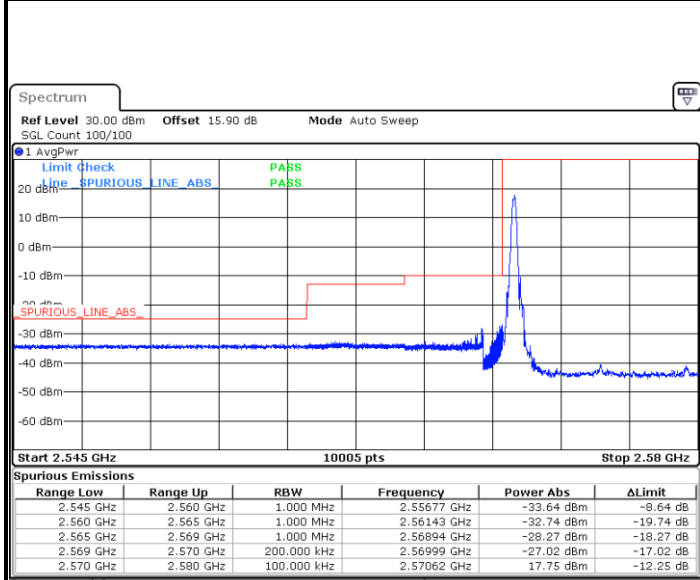


Date: 29.OCT.2019 11:08:25



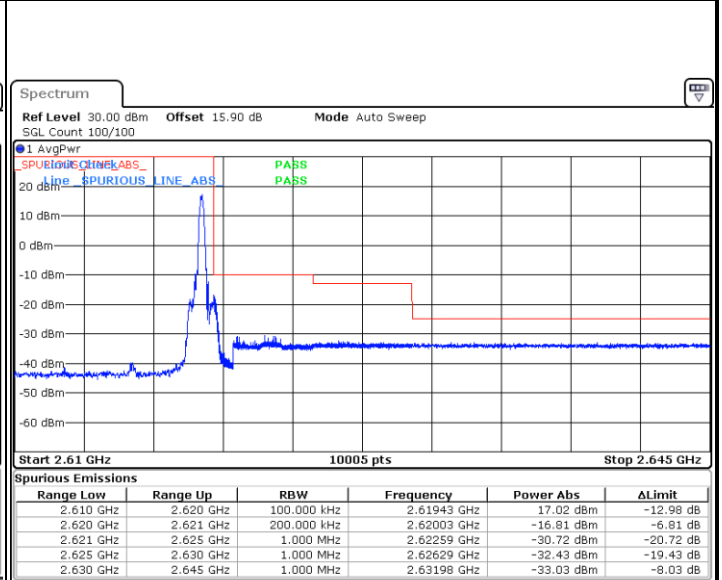
**LTE Band 38 / 10MHz / 64QAM**

**Lowest Band Edge / 1 RB**



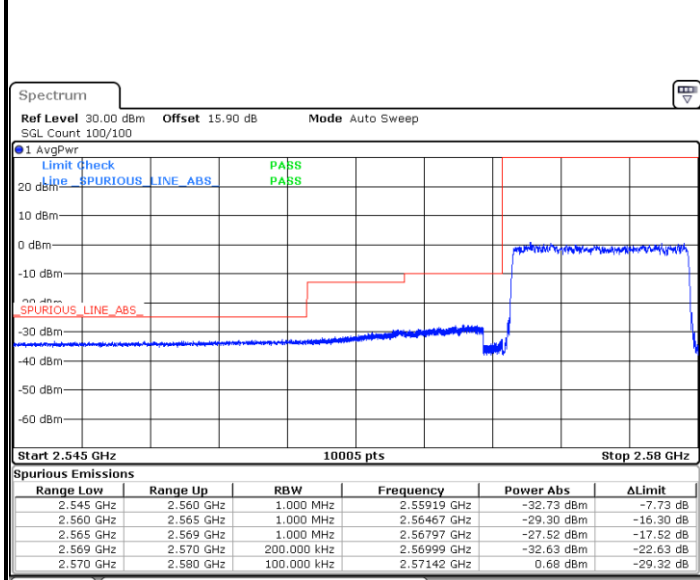
Date: 29.OCT.2019 10:55:53

**Highest Band Edge / 1 RB**



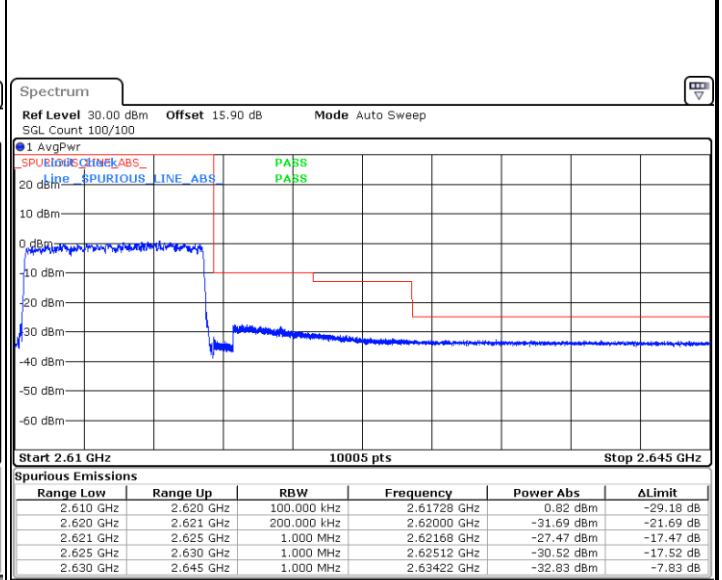
Date: 29.OCT.2019 11:00:03

**Lowest Band Edge / Full RB**



Date: 29.OCT.2019 10:57:16

**Highest Band Edge / Full RB**

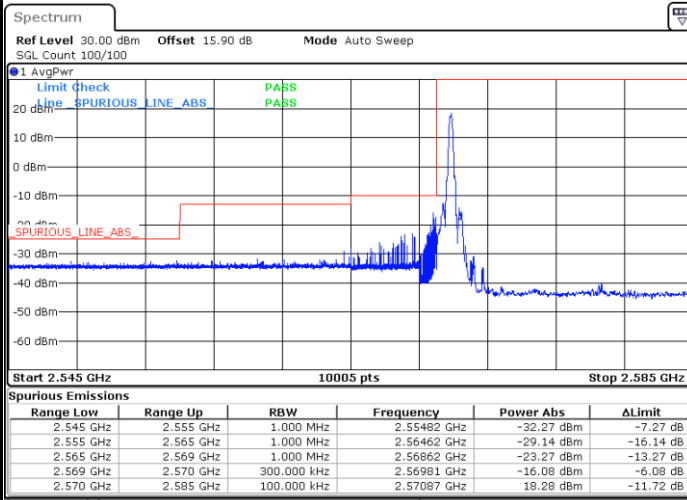


Date: 29.OCT.2019 10:58:40



LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



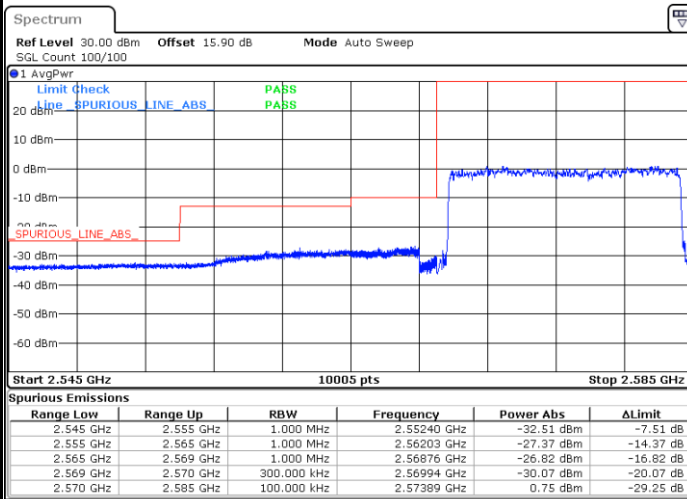
Date: 29.OCT.2019 11:20:33

Highest Band Edge / 1 RB



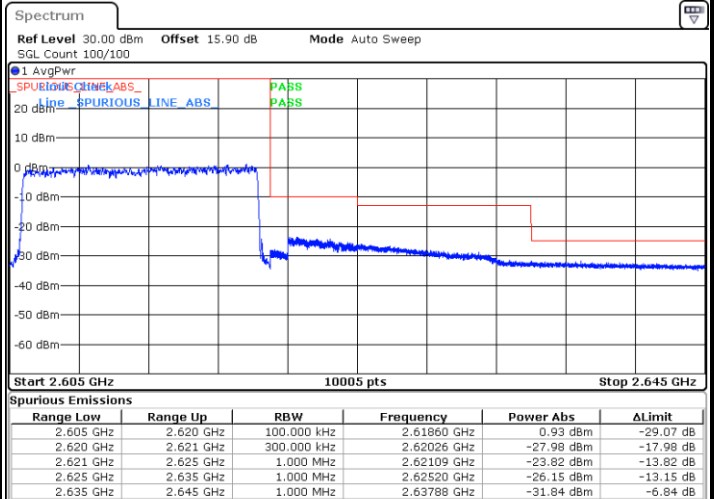
Date: 29.OCT.2019 11:28:54

Lowest Band Edge / Full RB



Date: 29.OCT.2019 11:23:20

Highest Band Edge / Full RB

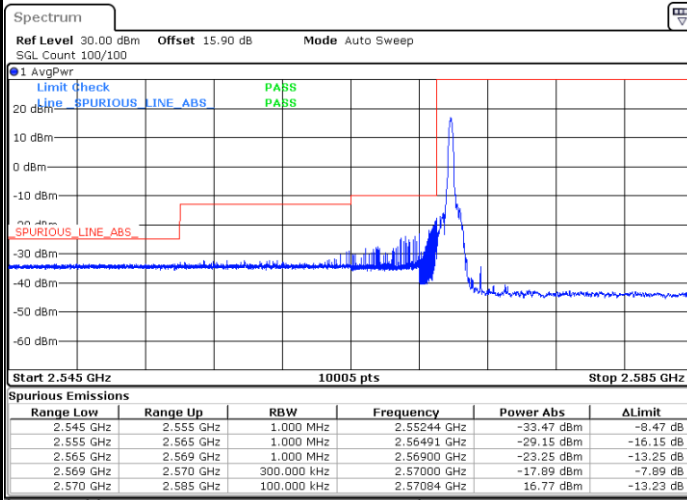


Date: 29.OCT.2019 11:26:07



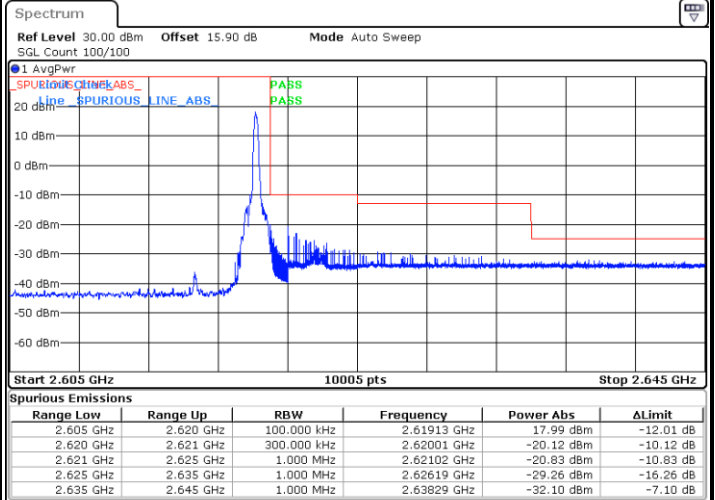
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



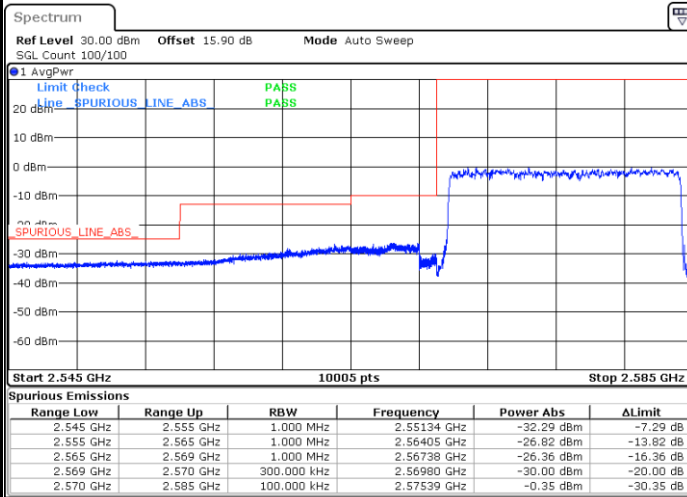
Date: 29.OCT.2019 11:21:56

Highest Band Edge / 1 RB



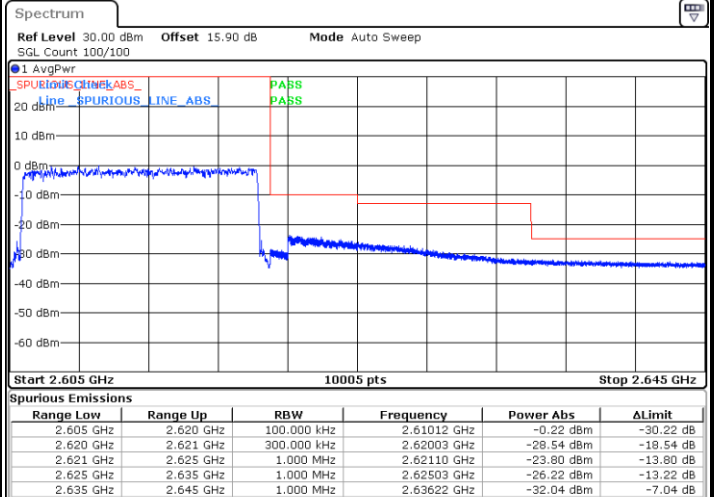
Date: 29.OCT.2019 11:30:18

Lowest Band Edge / Full RB



Date: 29.OCT.2019 11:24:43

Highest Band Edge / Full RB

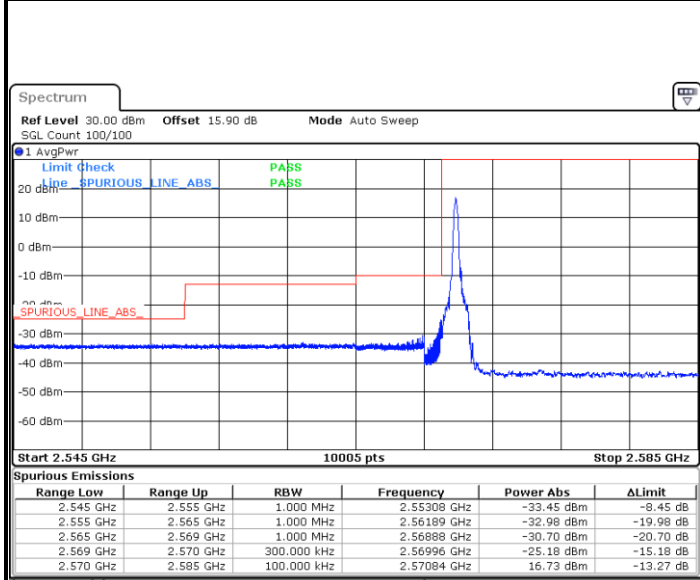


Date: 29.OCT.2019 11:27:30



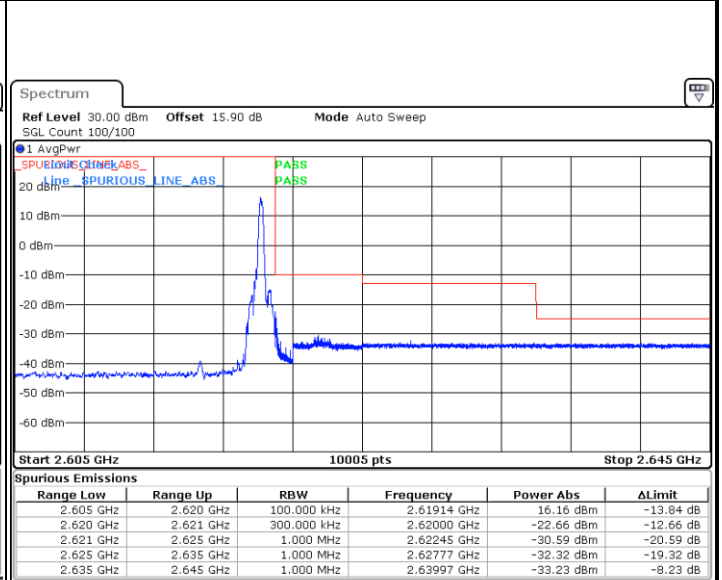
**LTE Band 38 / 15MHz / 64QAM**

**Lowest Band Edge / 1 RB**



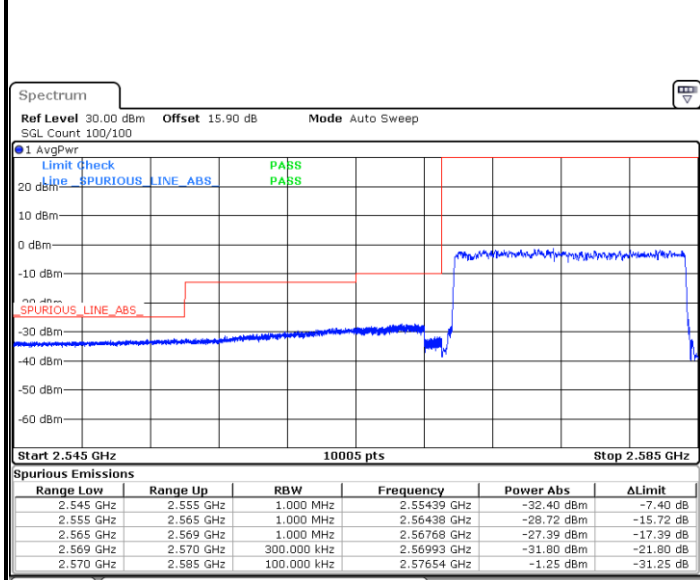
Date: 29.OCT.2019 11:31:41

**Highest Band Edge / 1 RB**



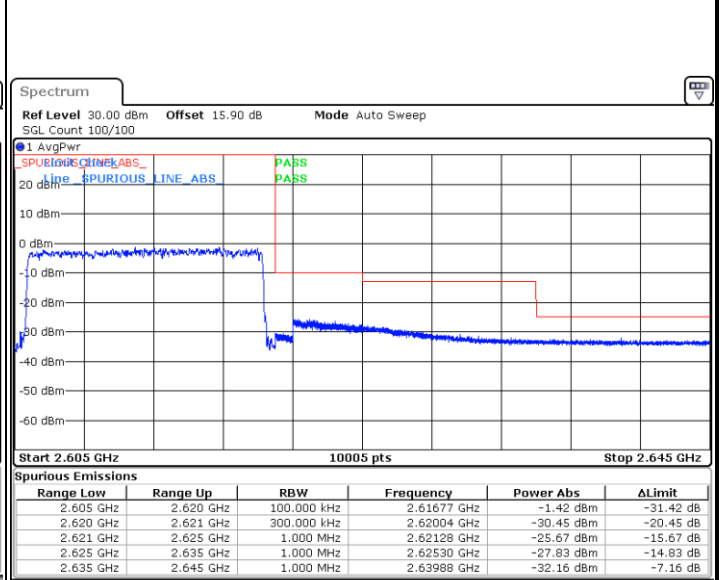
Date: 29.OCT.2019 11:35:52

**Lowest Band Edge / Full RB**



Date: 29.OCT.2019 11:33:04

**Highest Band Edge / Full RB**

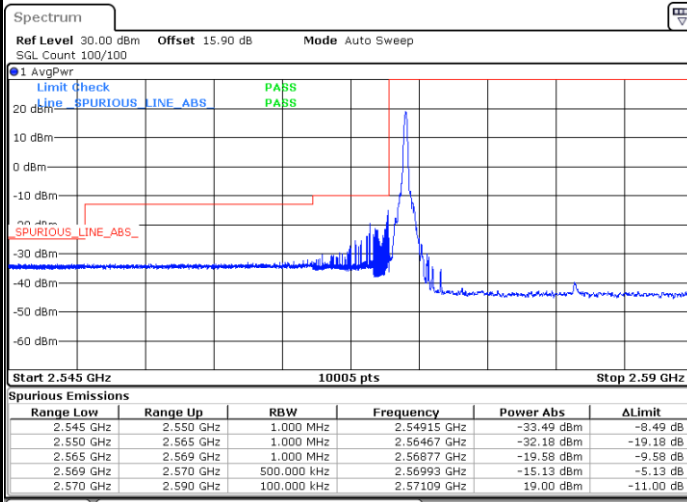


Date: 29.OCT.2019 11:34:28



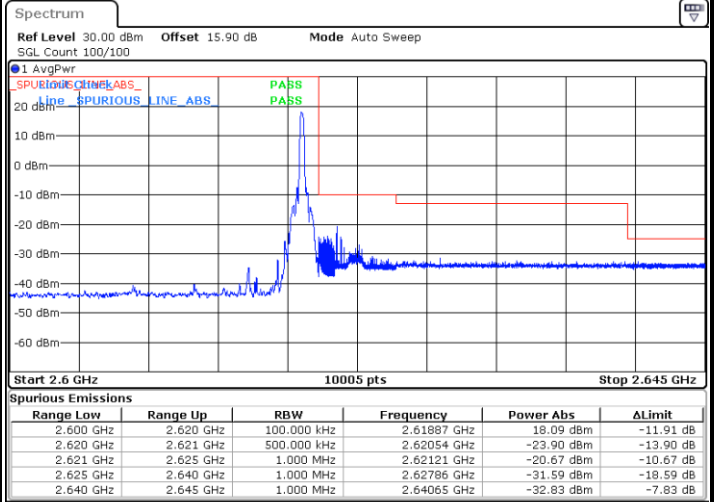
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



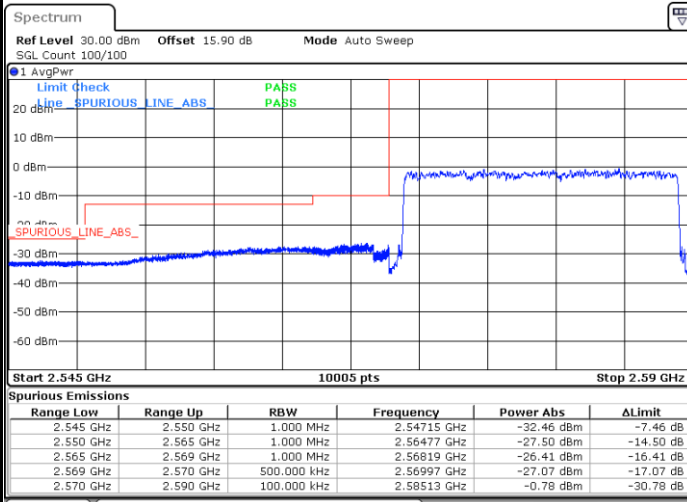
Date: 29.OCT.2019 11:37:15

Highest Band Edge / 1 RB



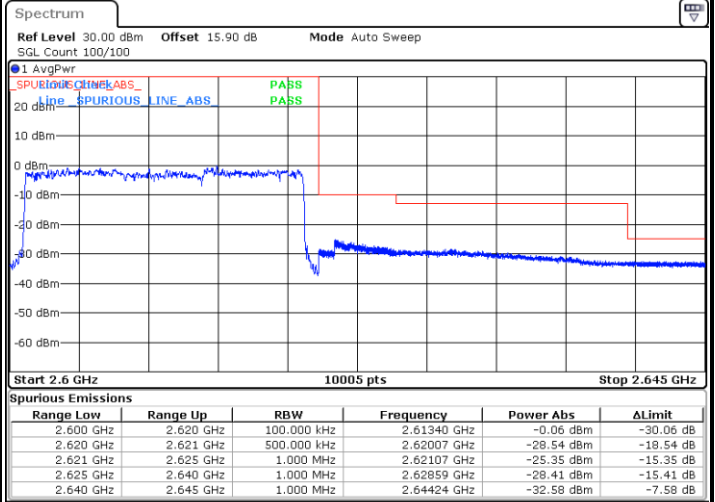
Date: 29.OCT.2019 11:45:36

Lowest Band Edge / Full RB



Date: 29.OCT.2019 11:40:02

Highest Band Edge / Full RB

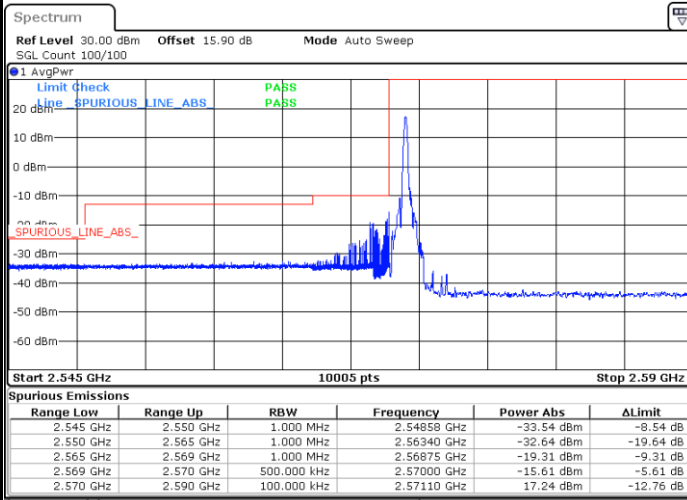


Date: 29.OCT.2019 11:42:49



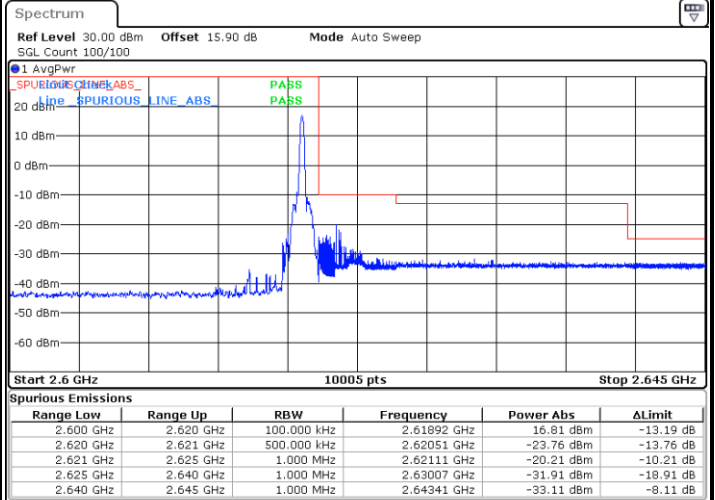
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



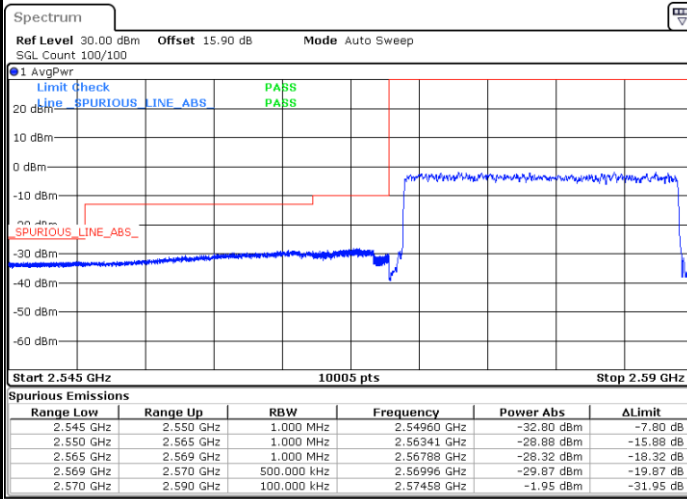
Date: 29.OCT.2019 11:38:39

Highest Band Edge / 1 RB



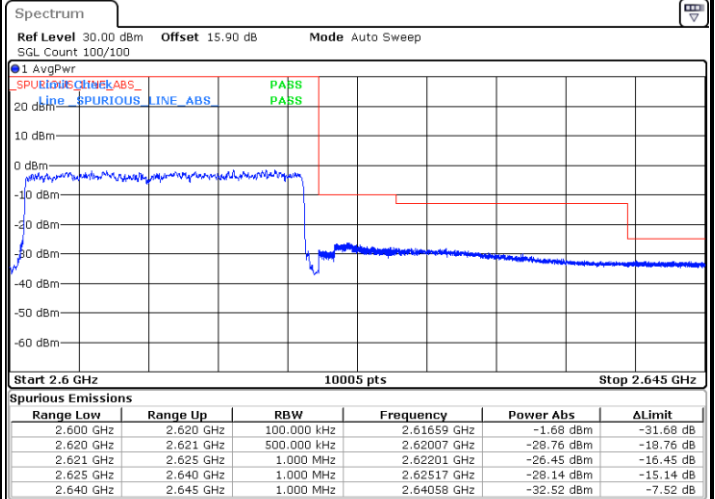
Date: 29.OCT.2019 11:47:00

Lowest Band Edge / Full RB



Date: 29.OCT.2019 11:41:26

Highest Band Edge / Full RB

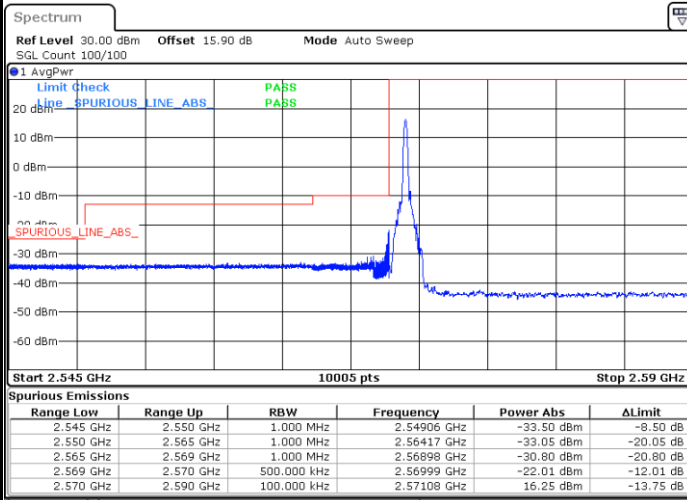


Date: 29.OCT.2019 11:44:13



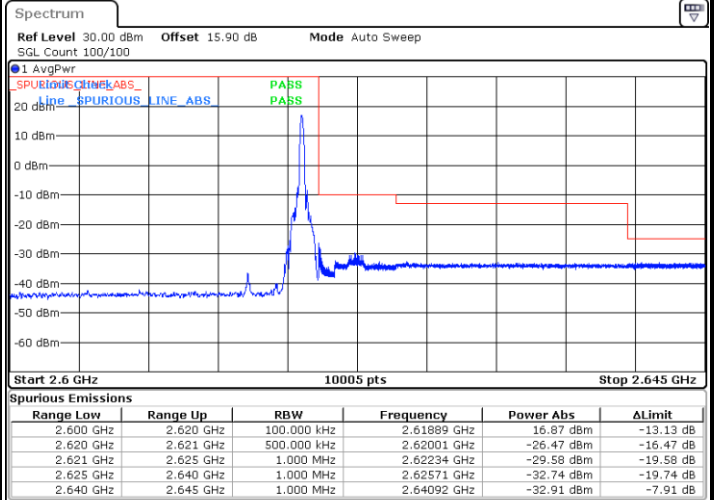
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



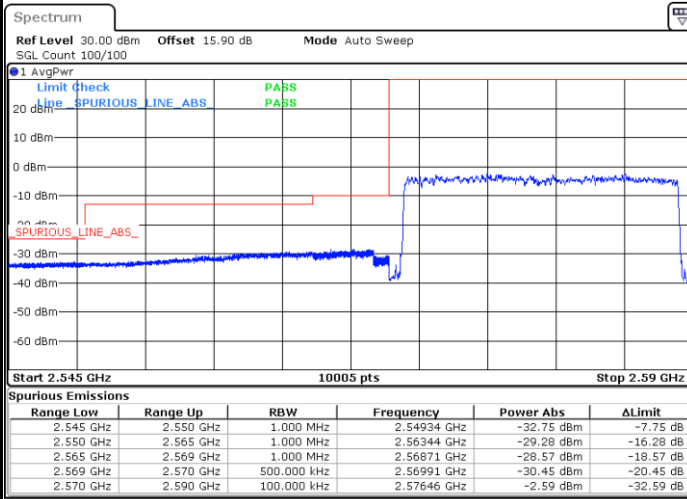
Date: 29.OCT.2019 11:48:23

Highest Band Edge / 1 RB



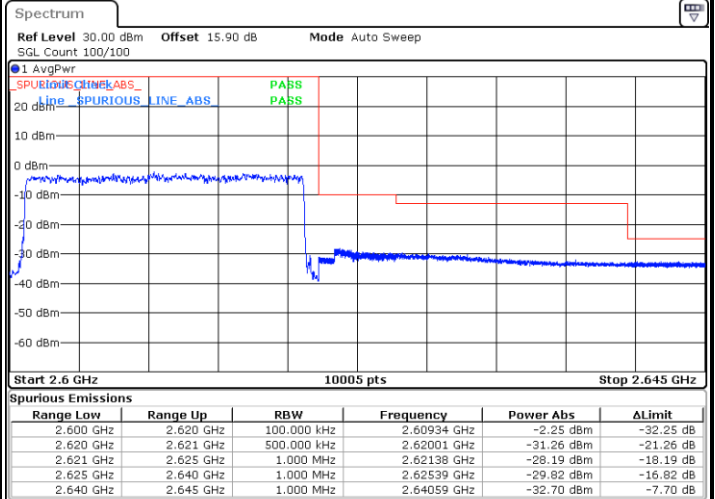
Date: 29.OCT.2019 11:52:34

Lowest Band Edge / Full RB



Date: 29.OCT.2019 11:49:47

Highest Band Edge / Full RB

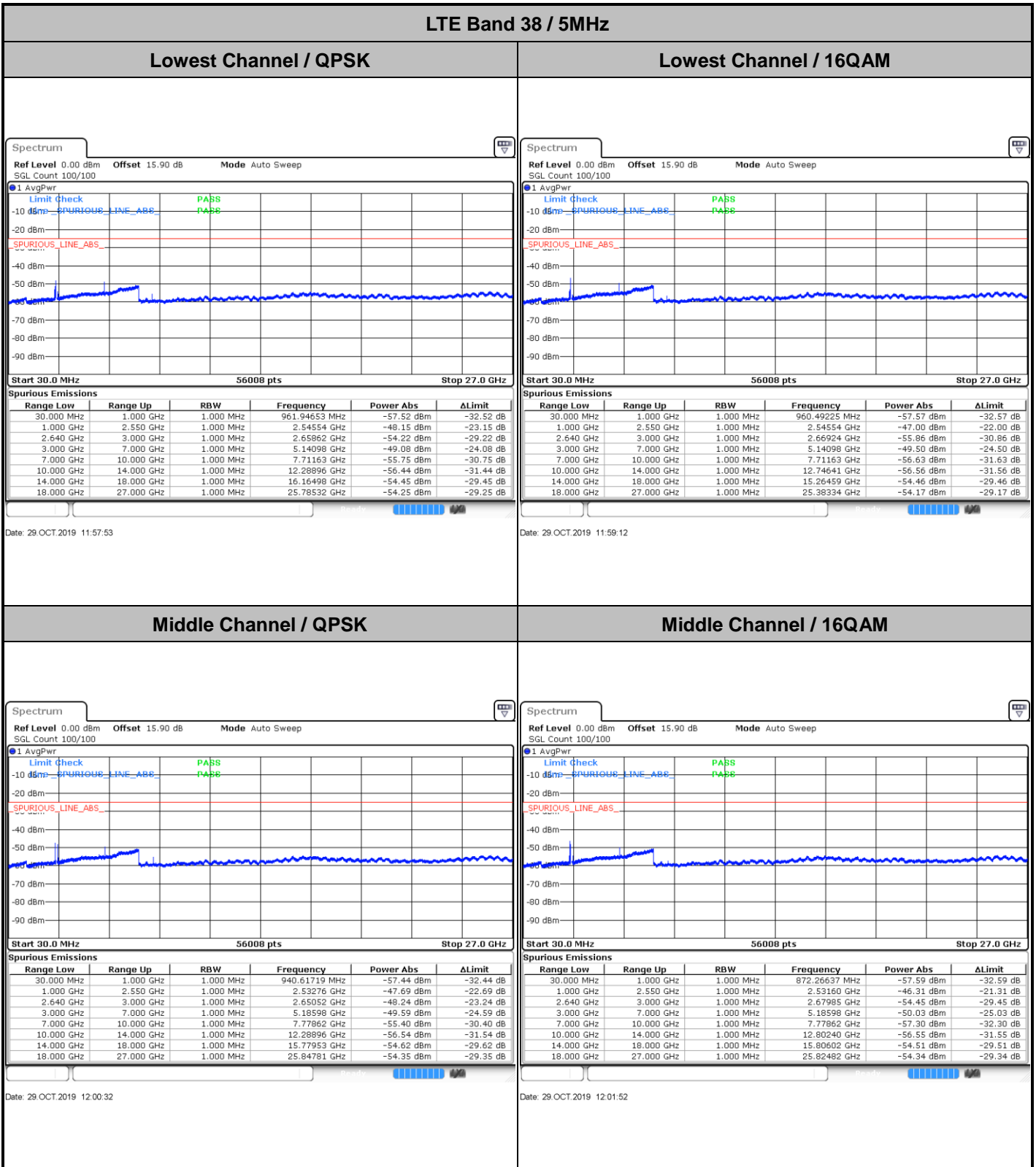


Date: 29.OCT.2019 11:51:10





# Conducted Spurious Emission

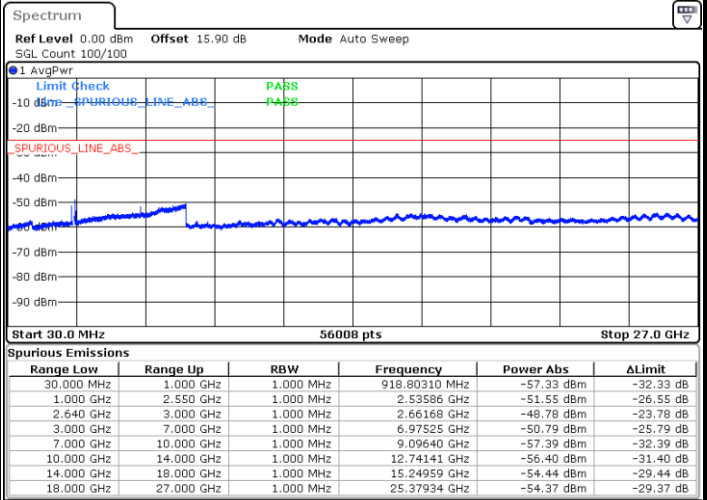
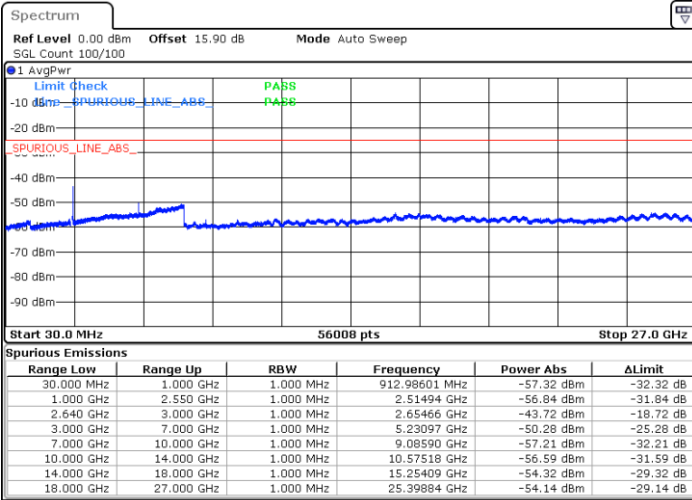




LTE Band 38 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



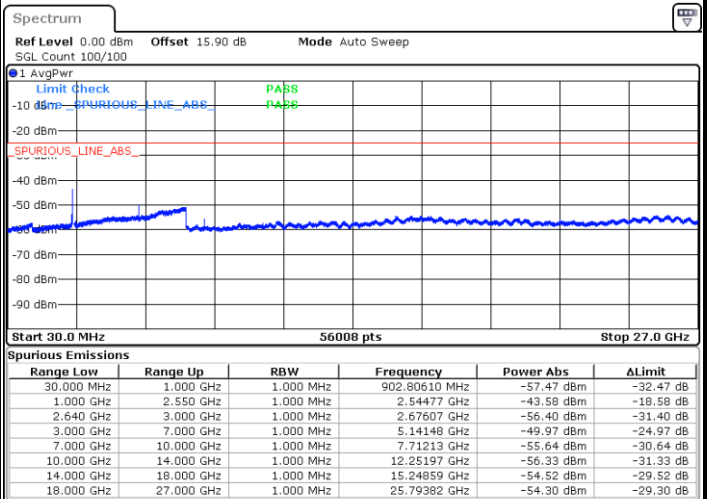
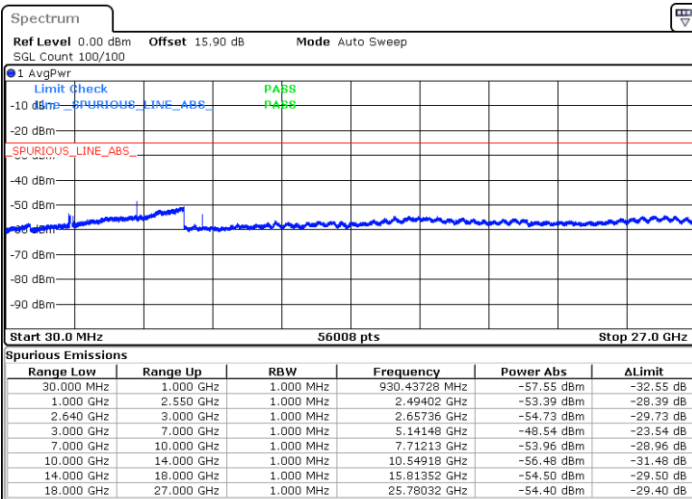
Date: 29.OCT.2019 12:03:11

Date: 29.OCT.2019 12:04:31

LTE Band 38 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 29.OCT.2019 12:09:50

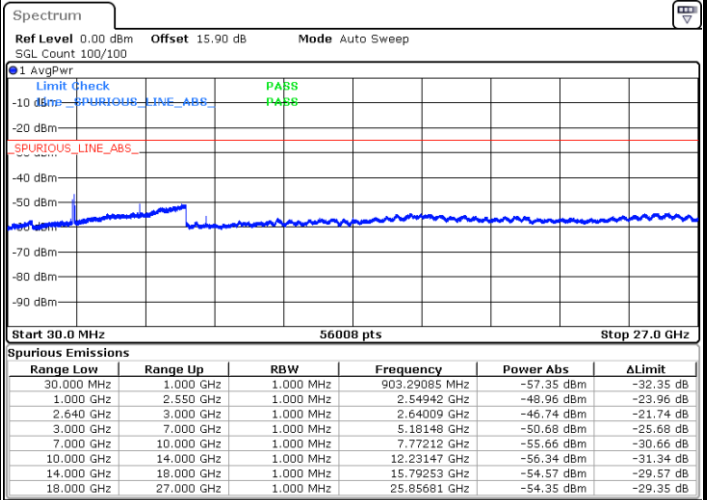
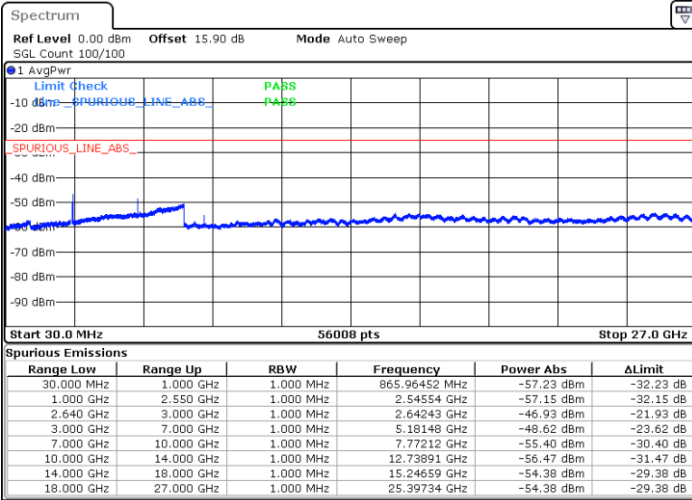
Date: 29.OCT.2019 12:11:10



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

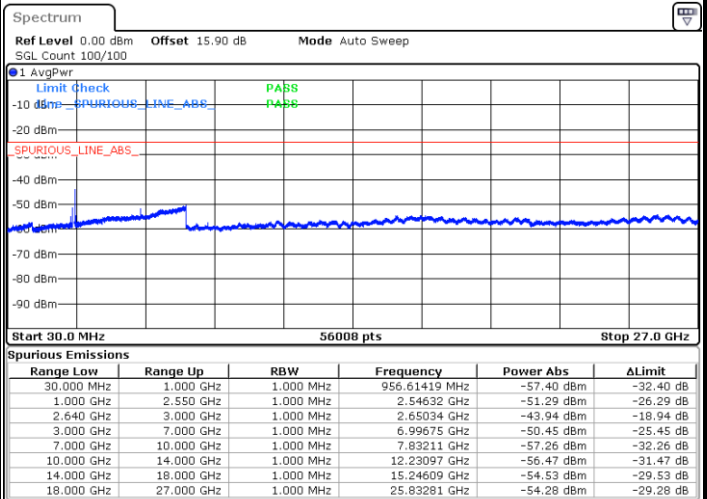
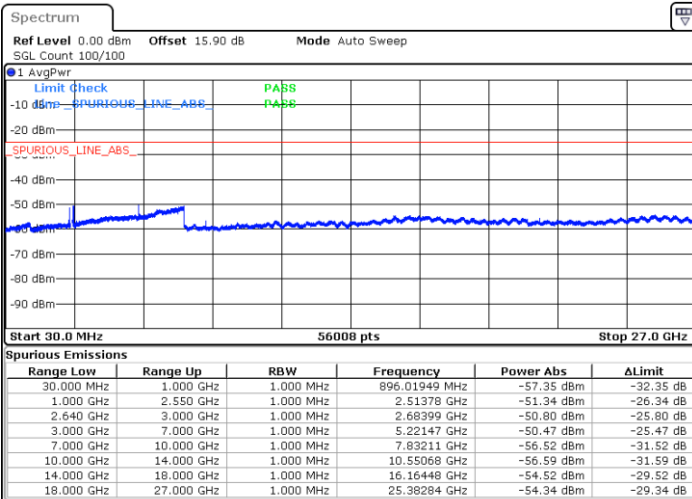


Date: 29.OCT.2019 12:12:30

Date: 29.OCT.2019 12:13:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 29.OCT.2019 12:15:09

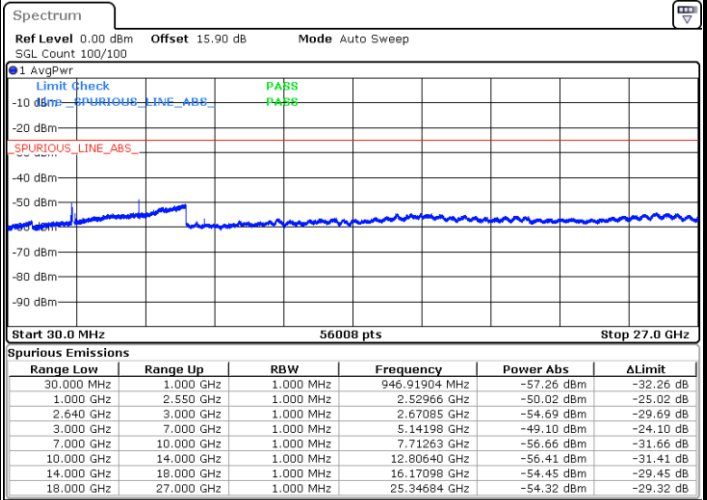
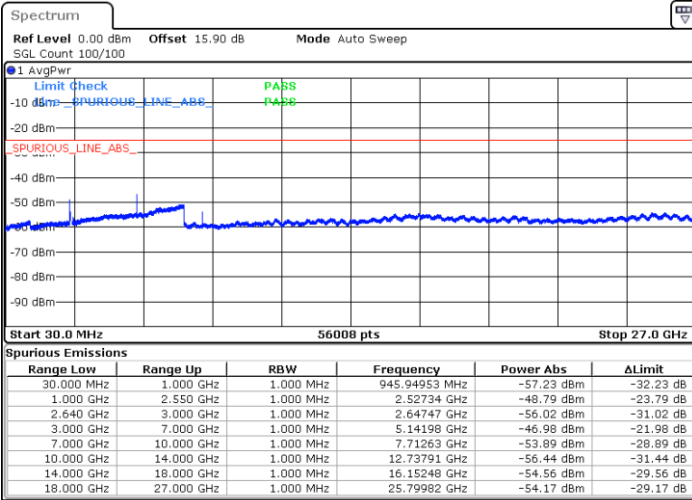
Date: 29.OCT.2019 12:16:29



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

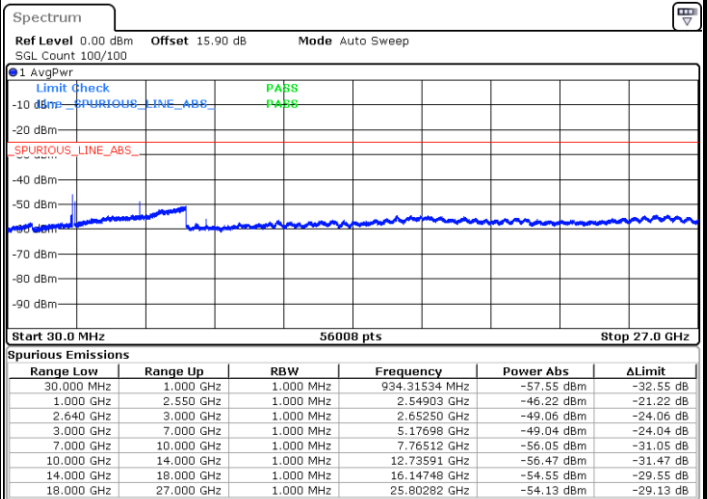
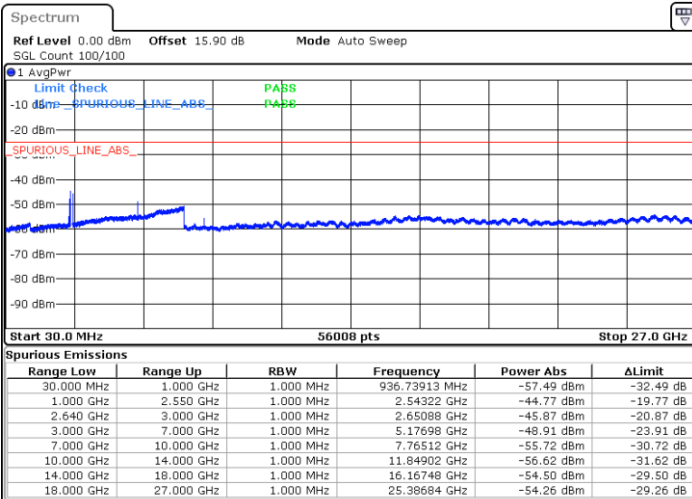


Date: 29.OCT.2019 12:17:49

Date: 29.OCT.2019 12:19:09

Middle Channel / QPSK

Middle Channel / 16QAM



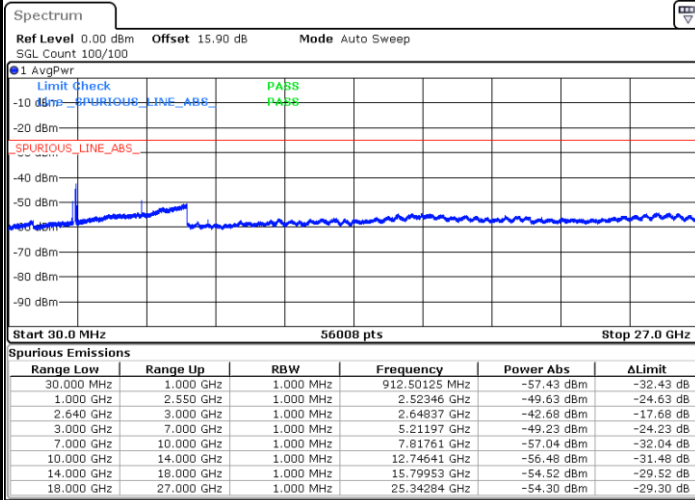
Date: 29.OCT.2019 12:20:28

Date: 29.OCT.2019 12:21:48



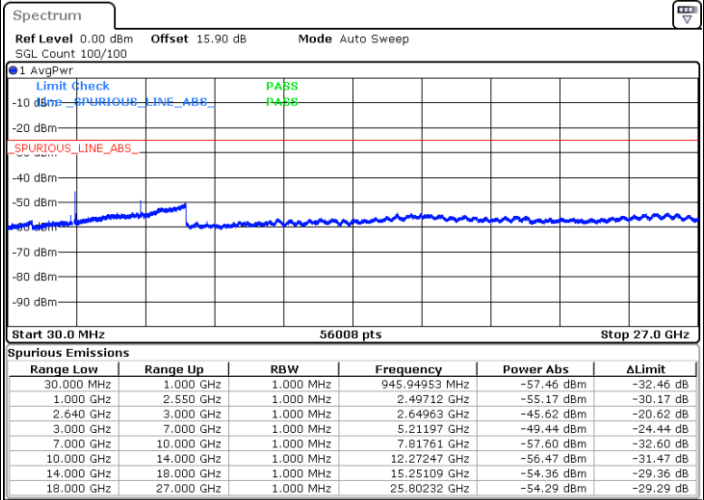
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 29.OCT.2019 12:23:08

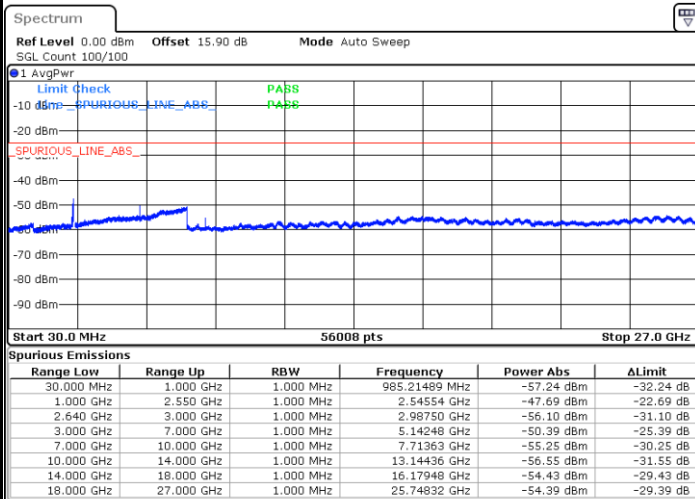
Highest Channel / 16QAM



Date: 29.OCT.2019 12:24:28

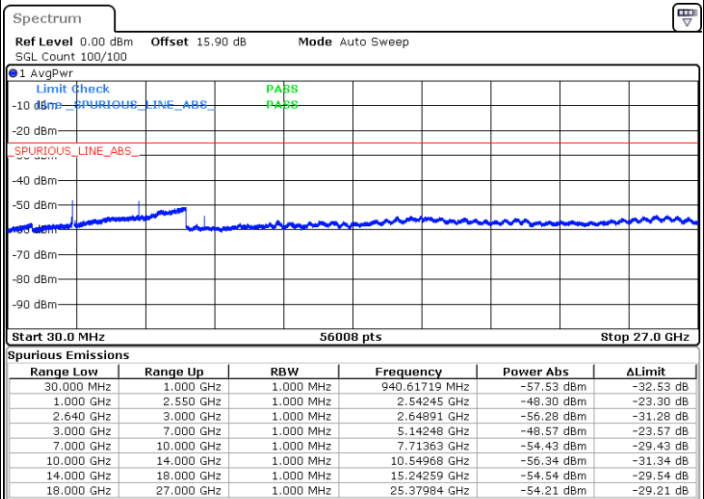
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 29.OCT.2019 12:29:47

Lowest Channel / 16QAM



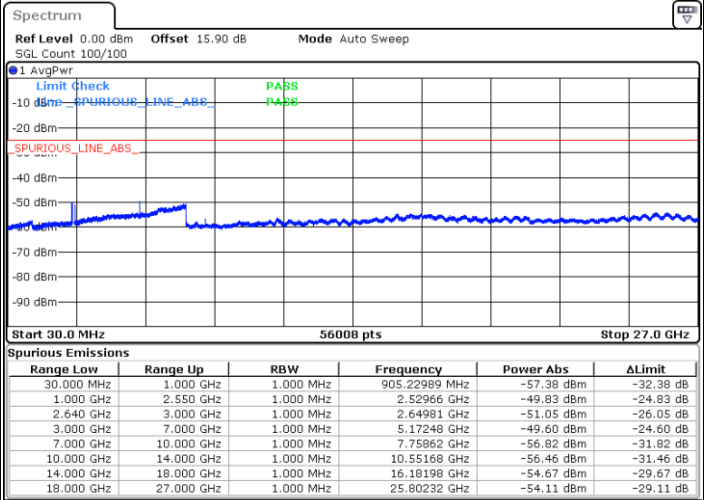
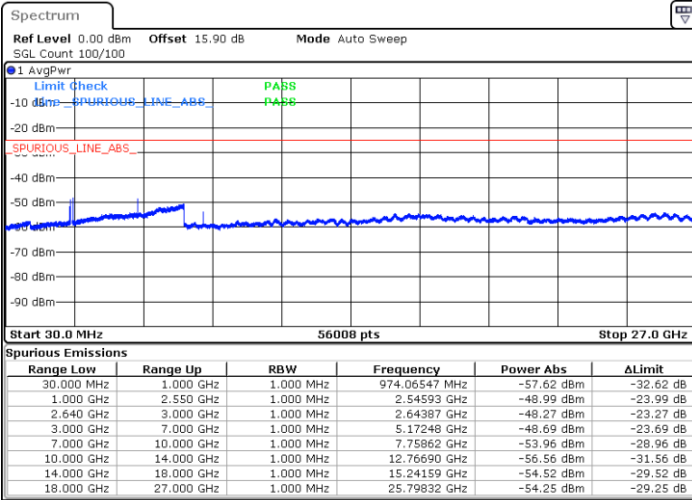
Date: 29.OCT.2019 12:31:07



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

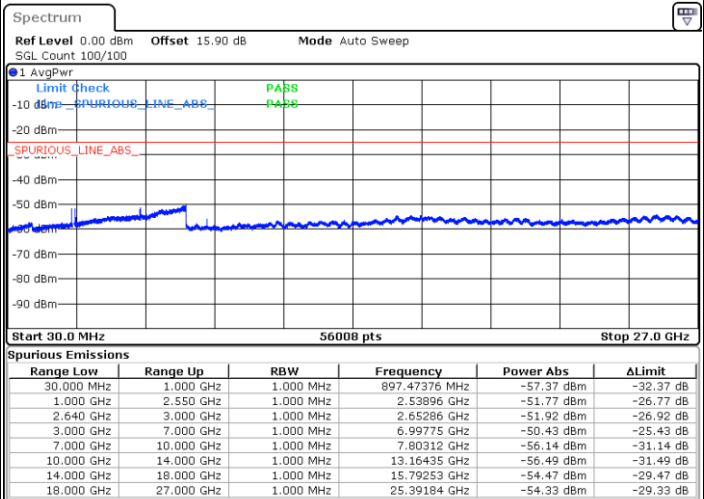
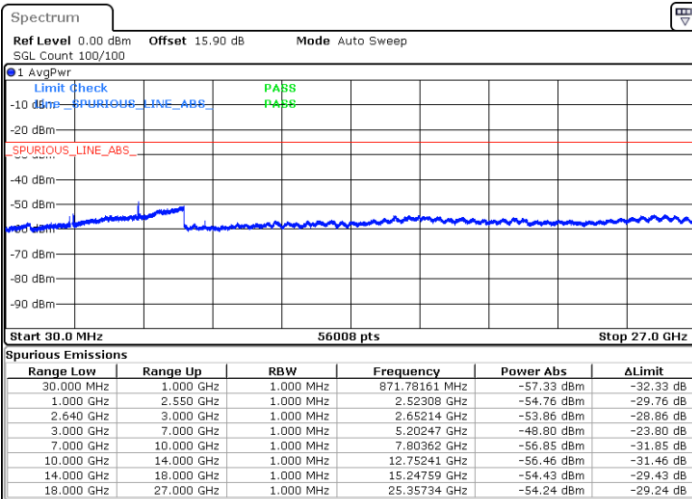


Date: 29.OCT.2019 12:32:26

Date: 29.OCT.2019 12:33:46

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 29.OCT.2019 12:35:06

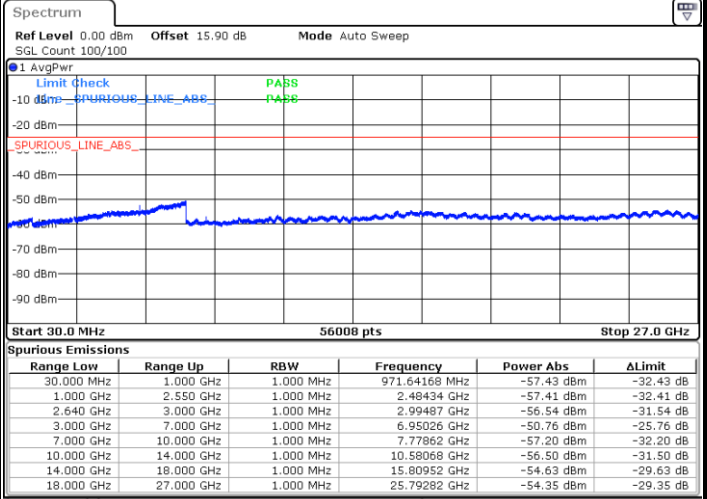
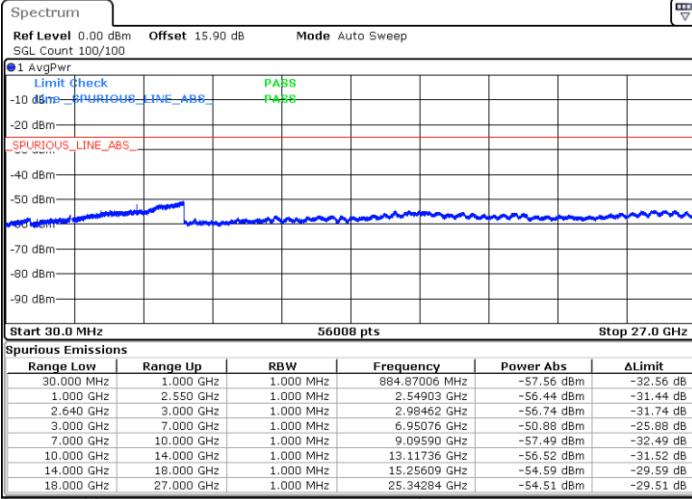
Date: 29.OCT.2019 12:36:26



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

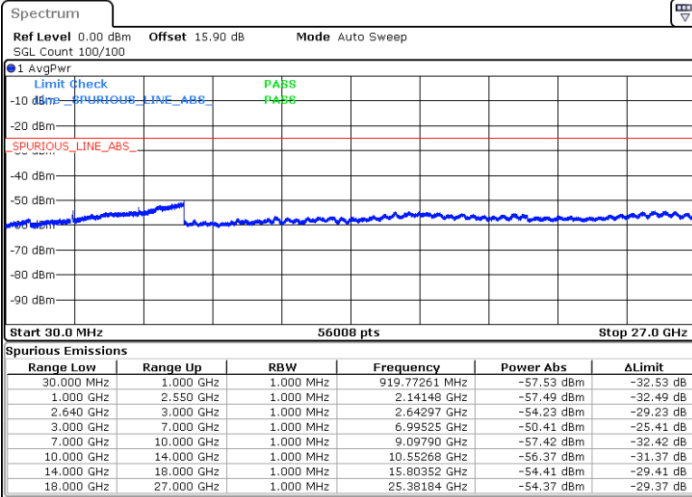
Middle Channel / 64QAM



Date: 29.OCT.2019 11:53:53

Date: 29.OCT.2019 11:55:13

Highest Channel / 64QAM



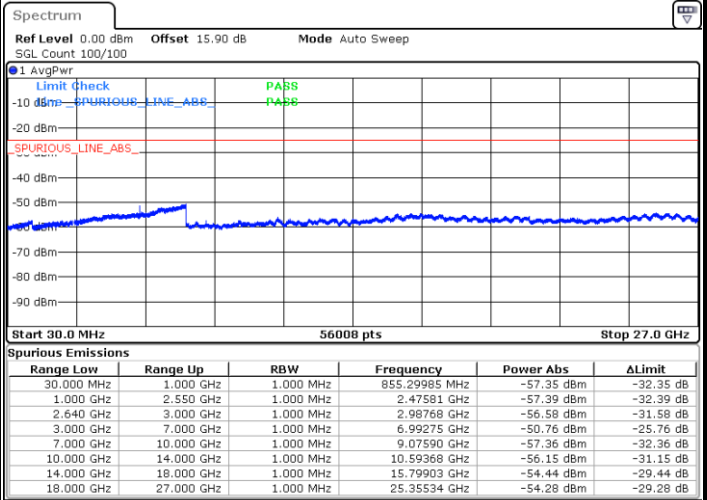
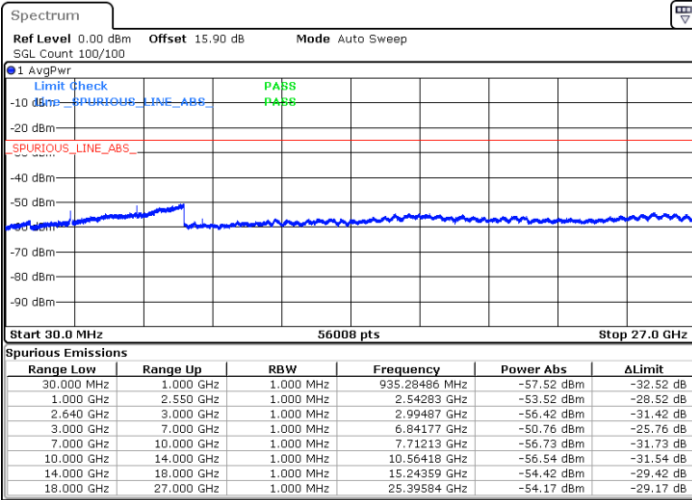
Date: 29.OCT.2019 11:56:33



LTE Band 38 / 10MHz

Lowest Channel / 64QAM

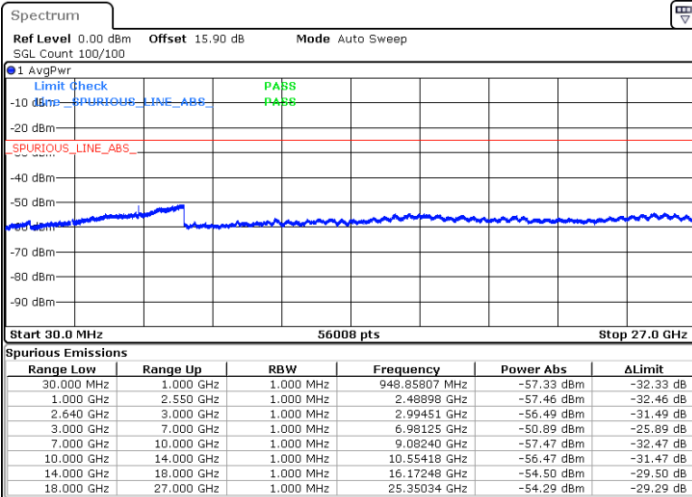
Middle Channel / 64QAM



Date: 29.OCT.2019 12:05:11

Date: 29.OCT.2019 12:07:11

Highest Channel / 64QAM



Date: 29.OCT.2019 12:08:31

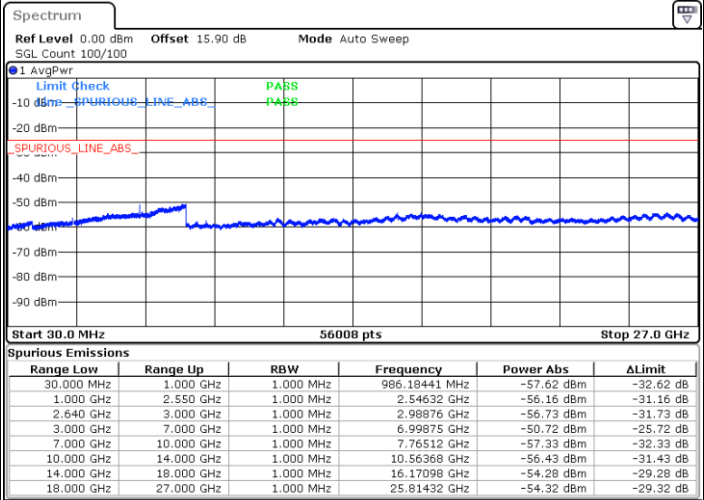
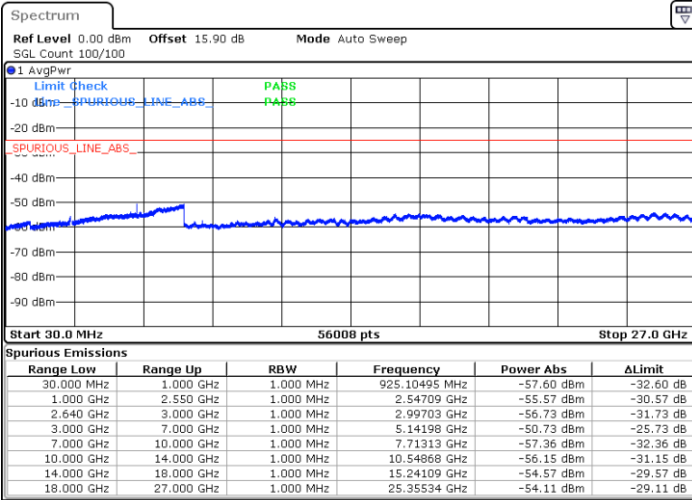




LTE Band 38 / 15MHz

Lowest Channel / 64QAM

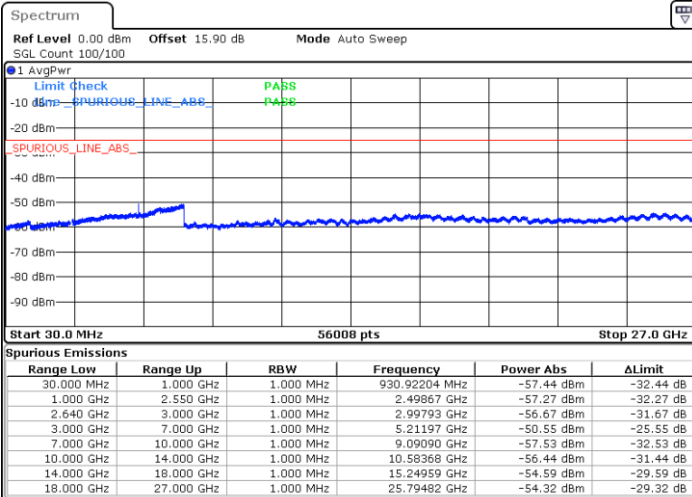
Middle Channel / 64QAM



Date: 29.OCT.2019 12:25:47

Date: 29.OCT.2019 12:27:07

Highest Channel / 64QAM



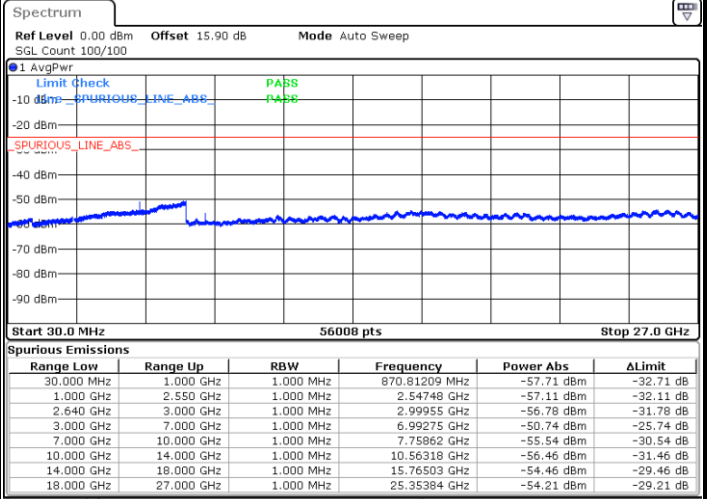
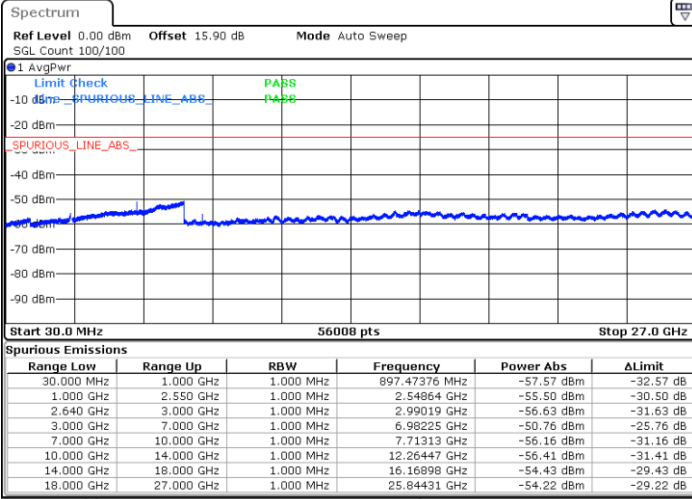
Date: 29.OCT.2019 12:28:27



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

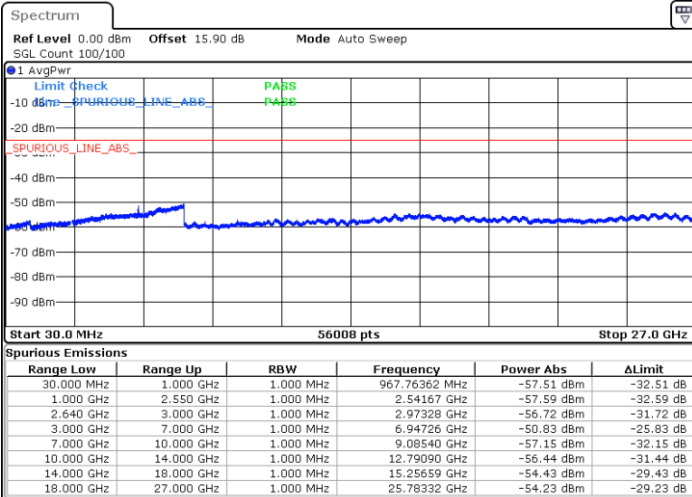
Middle Channel / 64QAM



Date: 29.OCT.2019 12:37:45

Date: 29.OCT.2019 12:39:05

Highest Channel / 64QAM



Date: 29.OCT.2019 12:40:25



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0077	
0	Normal Voltage	0.0082	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0081	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0064	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

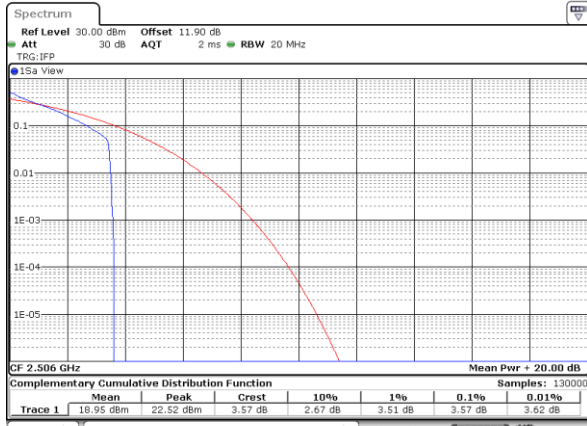
### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.81	4.26	5.80	PASS
Middle CH	3.62	5.13	4.41	6.06	
Highest CH	3.74	5.07	4.38	6.03	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.30	6.46	-	-	PASS
Middle CH	5.22	6.52	-	-	
Highest CH	5.62	6.52	-	-	



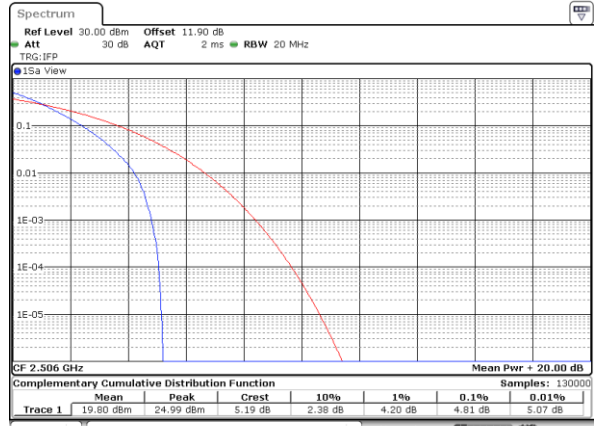
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



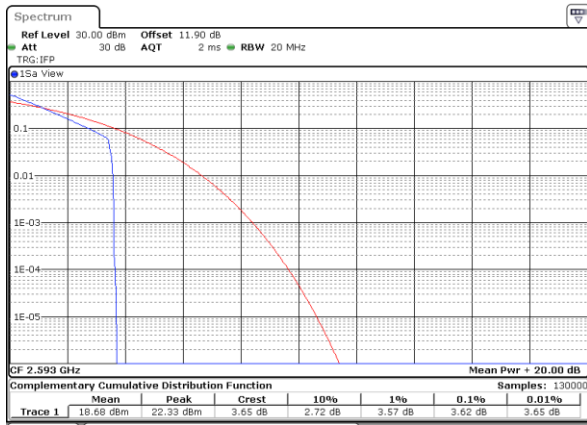
Date: 1 NOV 2019 09:35:16

Lowest Channel / Full RB



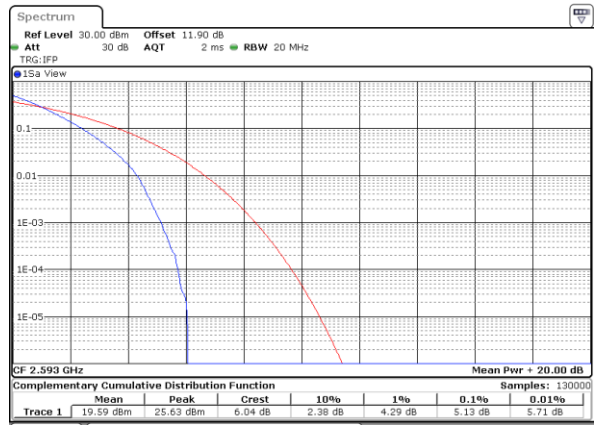
Date: 1 NOV 2019 09:35:31

Middle Channel / 1RB



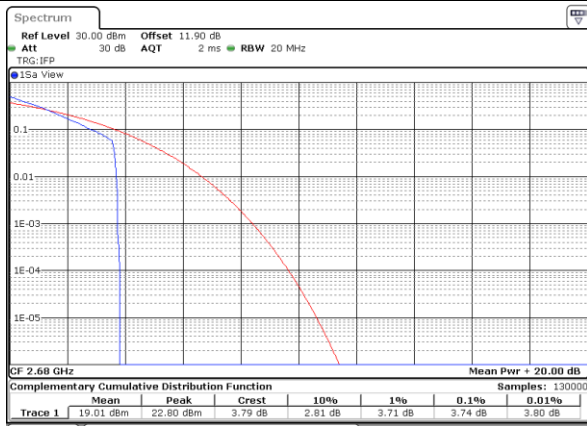
Date: 1 NOV 2019 09:35:47

Middle Channel / Full RB



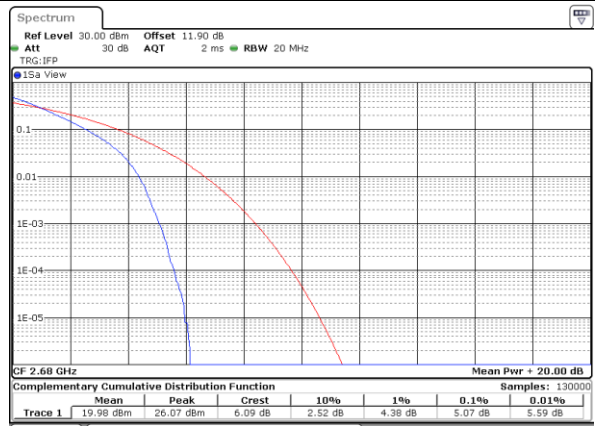
Date: 1 NOV 2019 09:36:03

Highest Channel / 1RB



Date: 1 NOV 2019 09:36:20

Highest Channel / Full RB

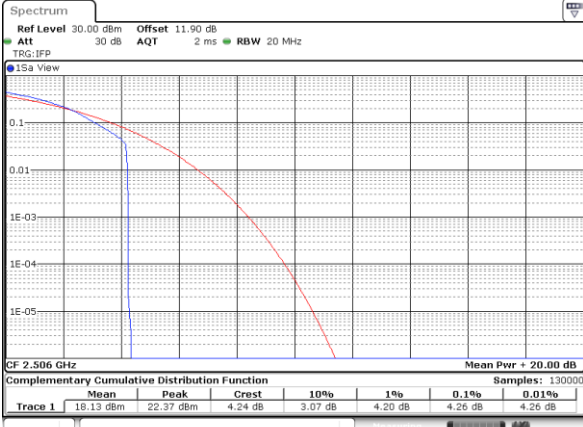


Date: 1 NOV 2019 09:36:36



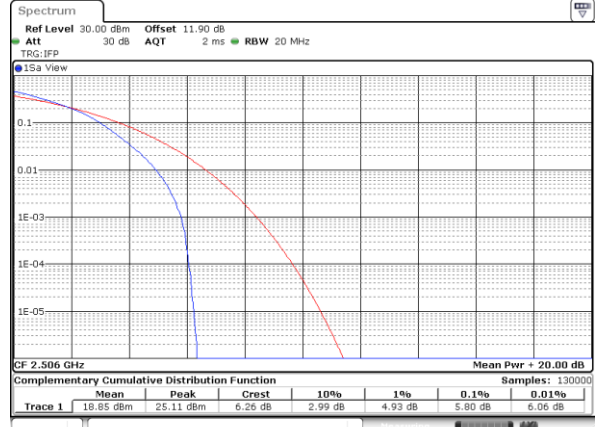
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



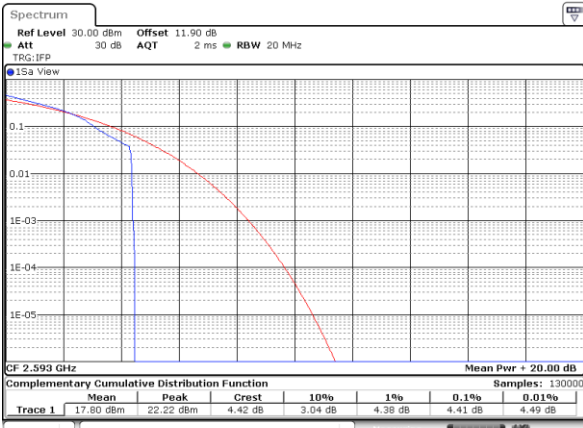
Date: 1 NOV 2019 09:33:32

Lowest Channel / Full RB



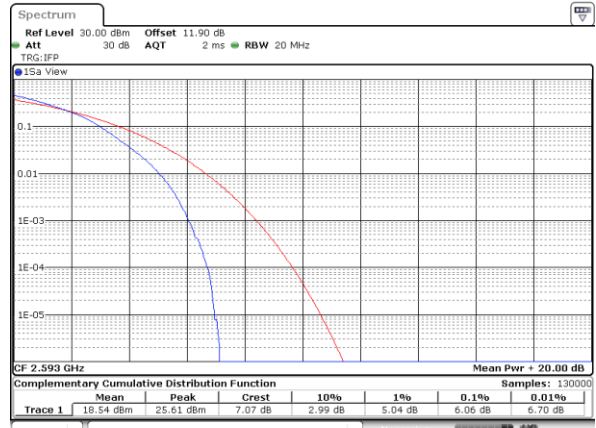
Date: 1 NOV 2019 09:33:51

Middle Channel / 1RB



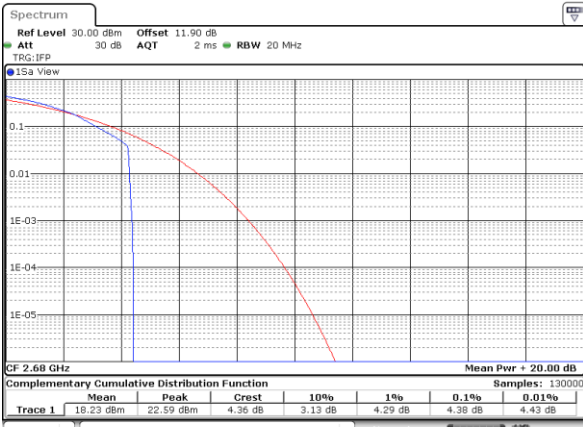
Date: 1 NOV 2019 09:34:08

Middle Channel / Full RB



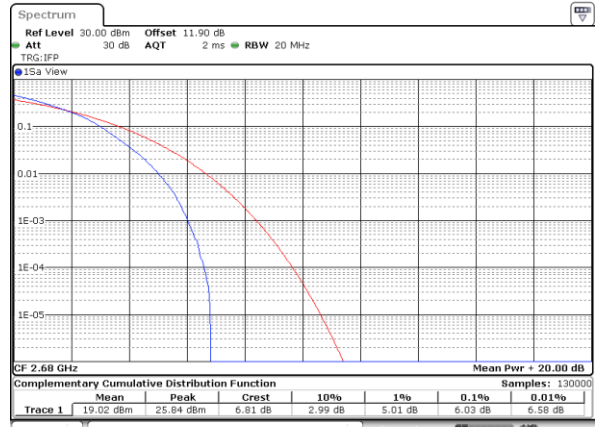
Date: 1 NOV 2019 09:34:25

Highest Channel / 1RB



Date: 1 NOV 2019 09:34:42

Highest Channel / Full RB

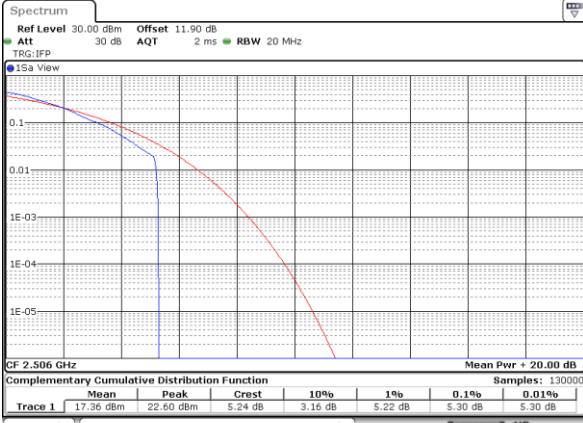


Date: 1 NOV 2019 09:34:59



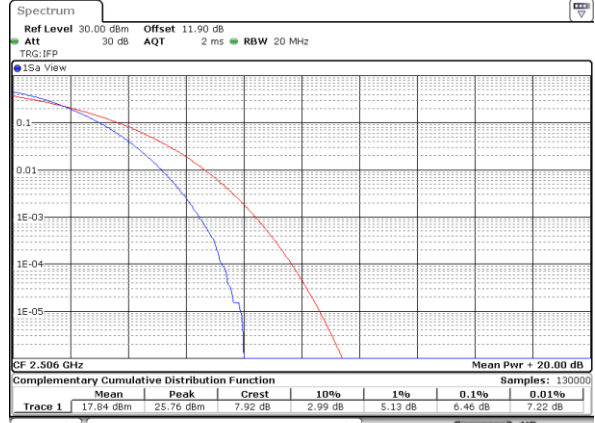
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



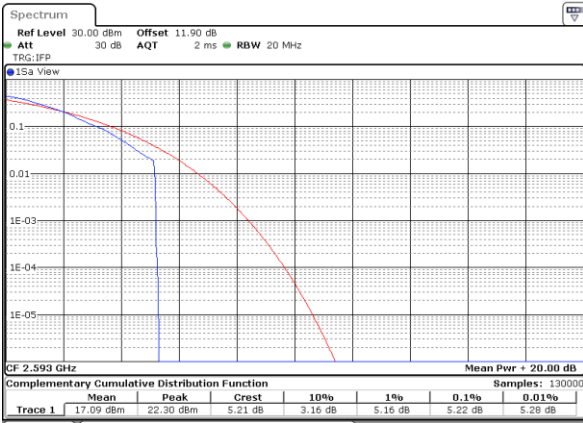
Date: 1 NOV 2019 09:30:48

Lowest Channel / Full RB



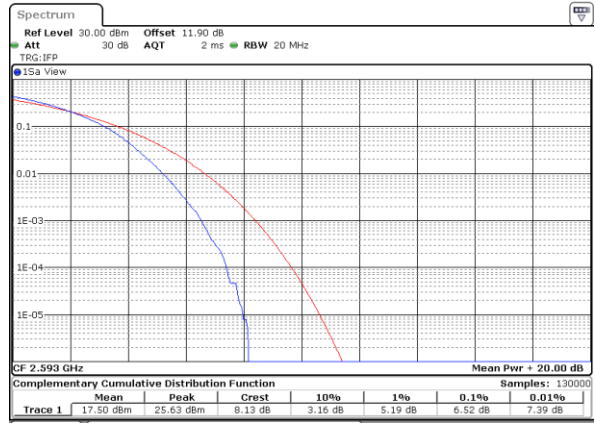
Date: 1 NOV 2019 09:31:14

Middle Channel / 1RB



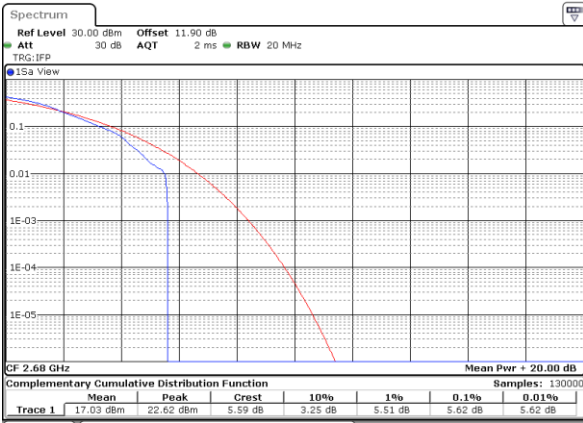
Date: 1 NOV 2019 09:31:42

Middle Channel / Full RB



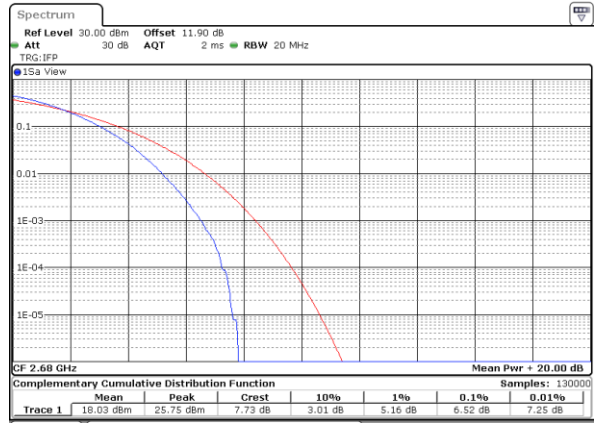
Date: 1 NOV 2019 09:32:31

Highest Channel / 1RB



Date: 1 NOV 2019 09:32:54

Highest Channel / Full RB



Date: 1 NOV 2019 09:33:13



**26dB Bandwidth**

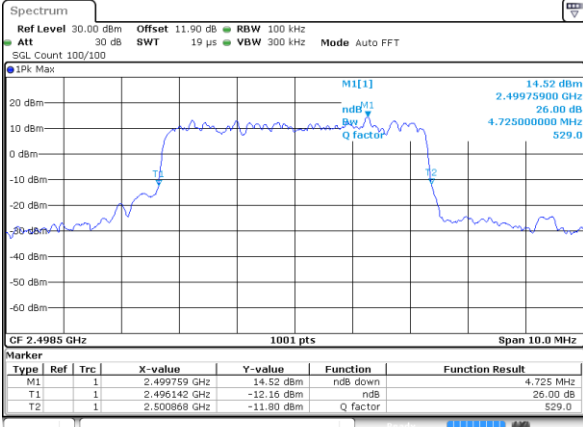
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.73	4.82	9.89	9.87	14.39	14.18	18.82	18.86
Middle CH	-	-	-	-	4.82	4.88	9.73	9.83	14.42	14.27	18.74	18.74
Highest CH	-	-	-	-	4.89	4.85	9.67	9.75	14.24	14.24	18.86	18.70
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.82	-	9.91	-	14.36	-	18.70	-
Middle CH	-	-	-	-	4.86	-	9.75	-	14.48	-	18.70	-
Highest CH	-	-	-	-	4.82	-	9.87	-	14.45	-	18.70	-





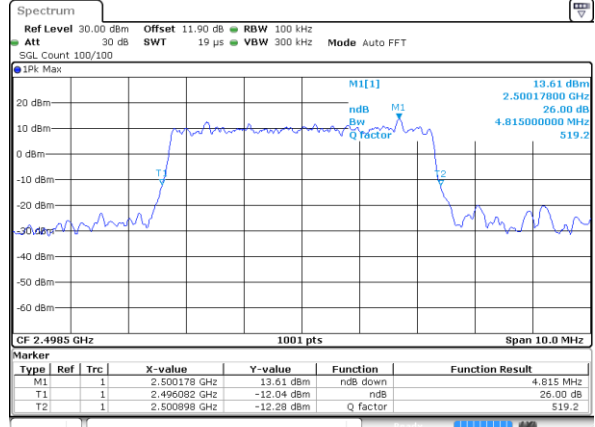
LTE Band 41

Lowest Channel / 5MHz / QPSK



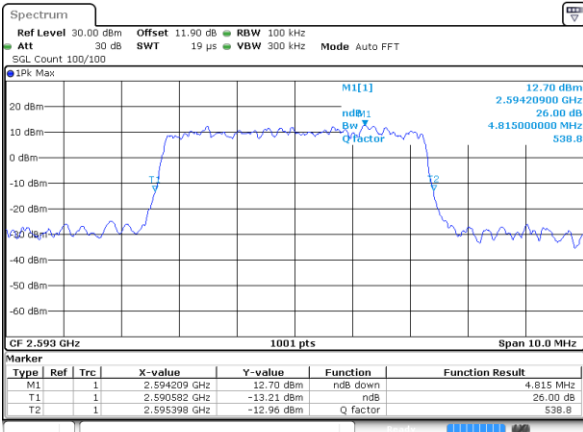
Date: 1 NOV 2019 09:06:58

Lowest Channel / 5MHz / 16QAM



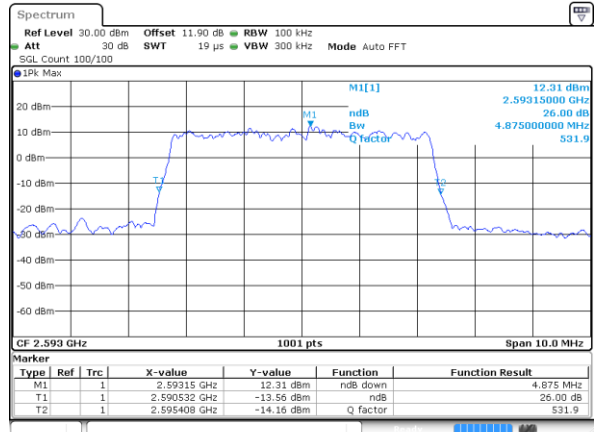
Date: 1 NOV 2019 09:07:09

Middle Channel / 5MHz / QPSK



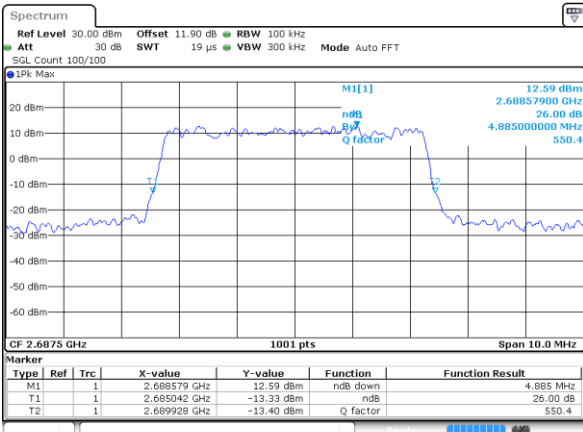
Date: 1 NOV 2019 09:07:41

Middle Channel / 5MHz / 16QAM



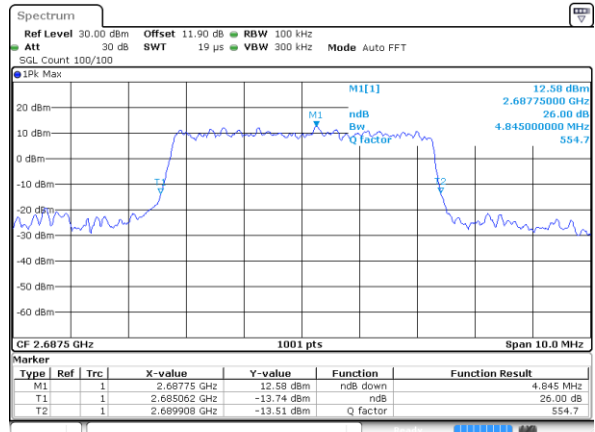
Date: 1 NOV 2019 09:07:52

Highest Channel / 5MHz / QPSK



Date: 1 NOV 2019 09:08:25

Highest Channel / 5MHz / 16QAM



Date: 1 NOV 2019 09:08:36