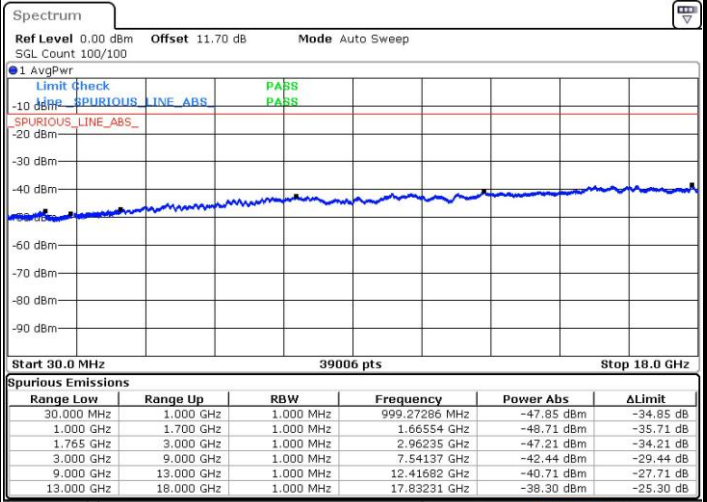
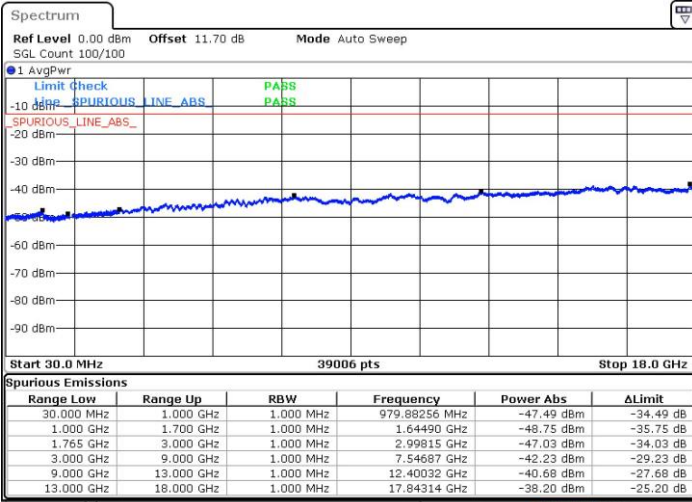




LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

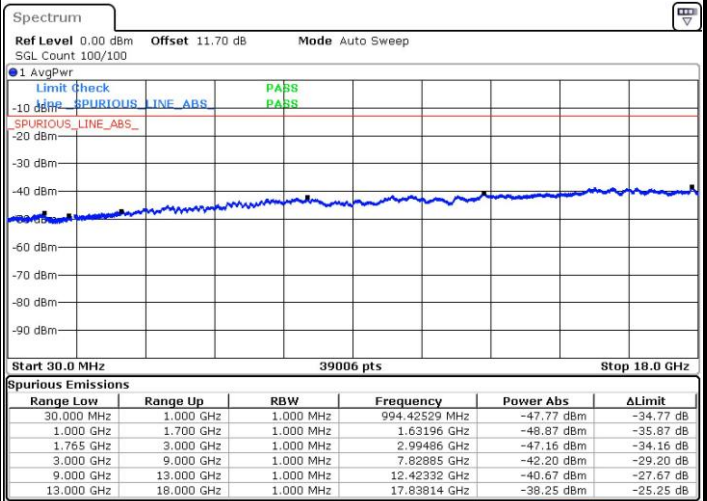
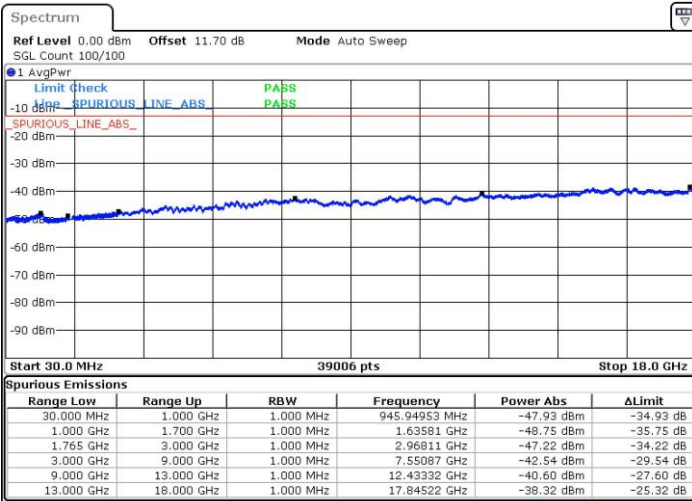


Date: 16.AUG.2018 19:33:26

Date: 16.AUG.2018 19:34:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.AUG.2018 19:43:12

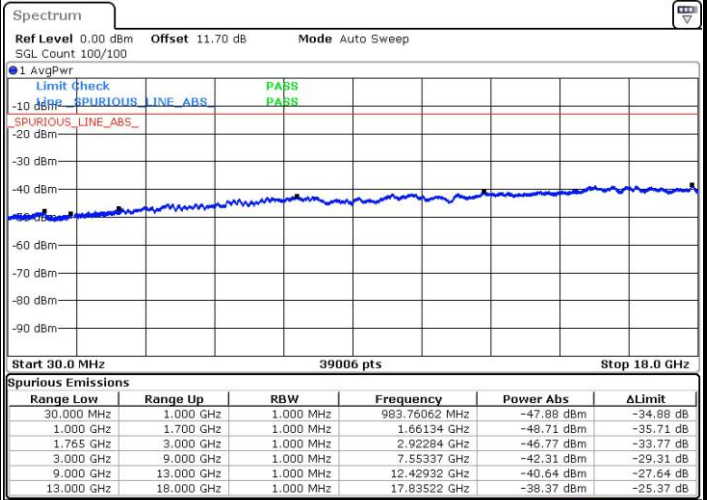
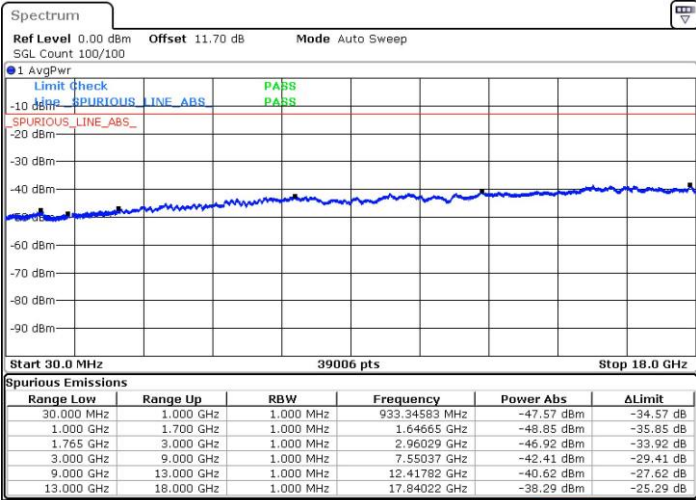
Date: 16.AUG.2018 19:44:22



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

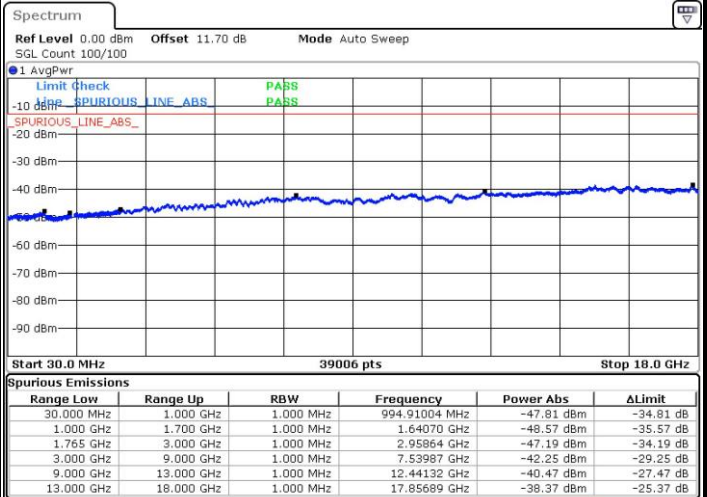
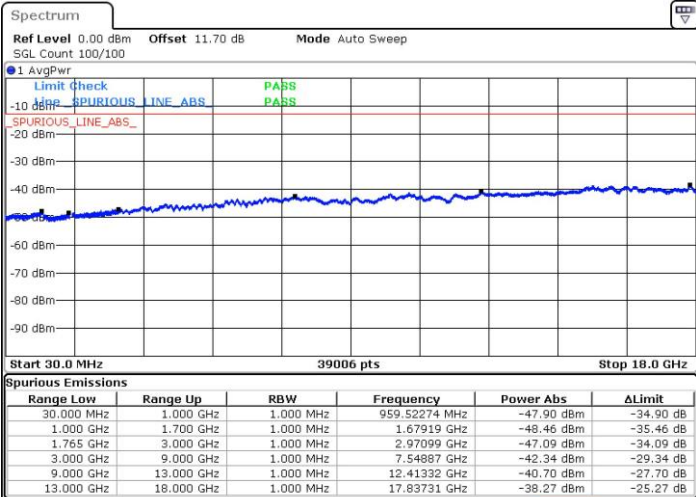


Date: 16.AUG.2018 19:52:58

Date: 16.AUG.2018 19:54:09

Middle Channel / QPSK

Middle Channel / 16QAM



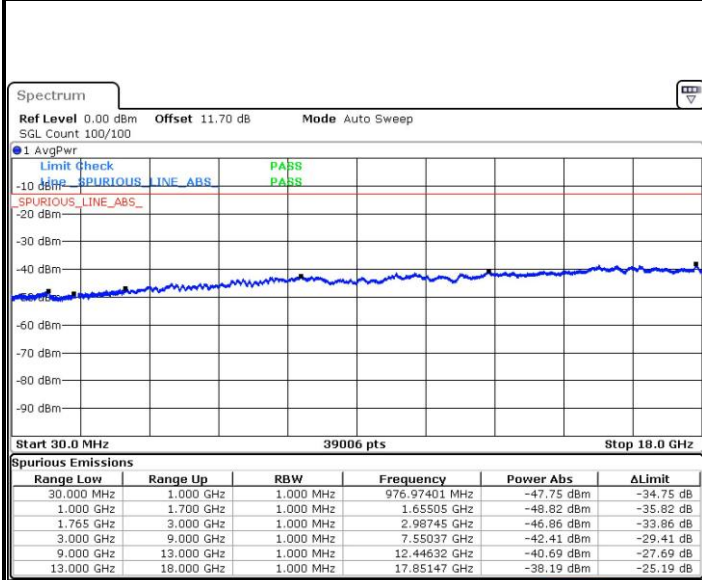
Date: 16.AUG.2018 19:56:05

Date: 16.AUG.2018 19:57:15



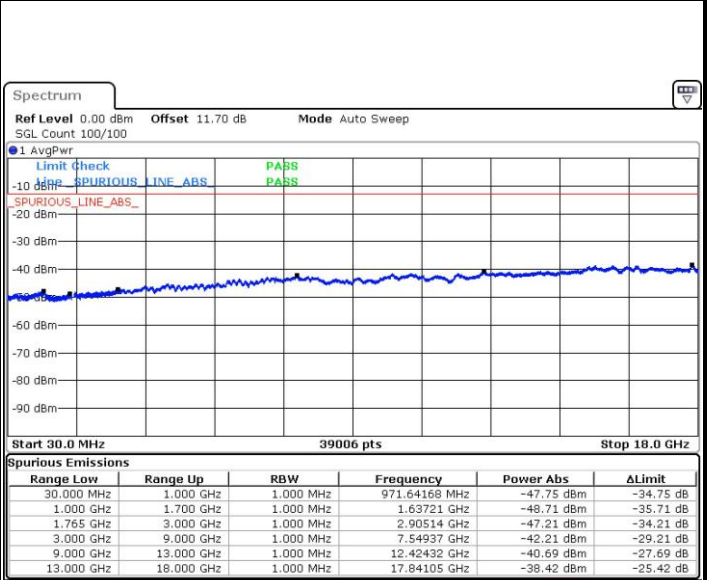
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 16.AUG.2018 20:05:51

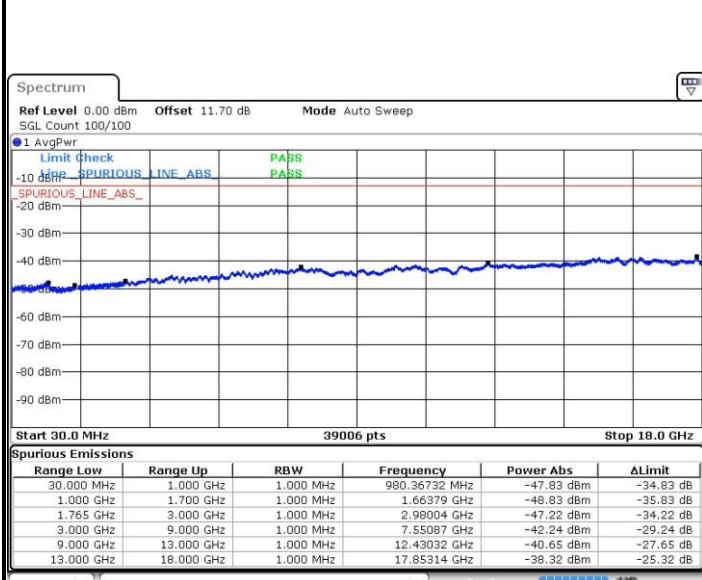
Highest Channel / 16QAM



Date: 16.AUG.2018 20:07:01

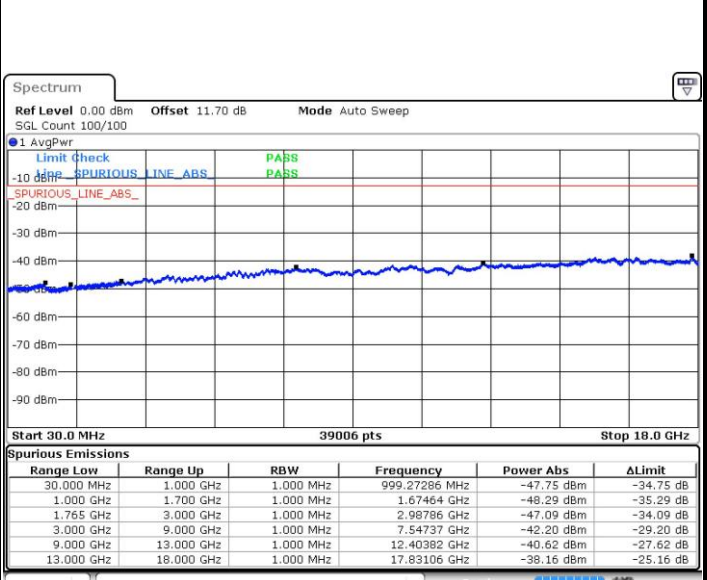
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 16.AUG.2018 20:15:38

Lowest Channel / 16QAM



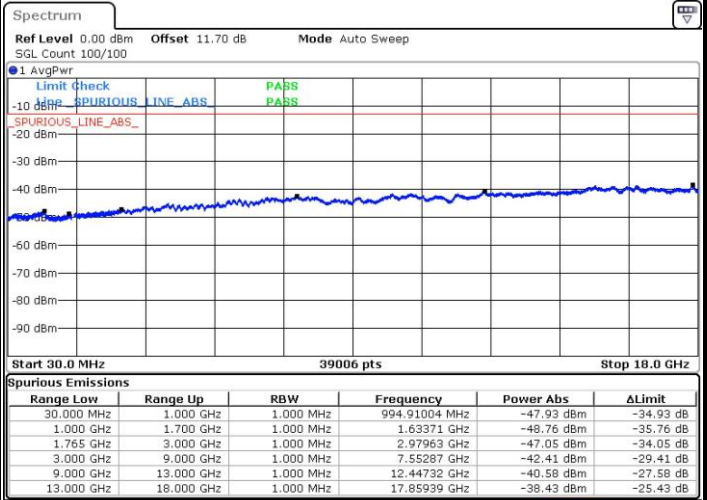
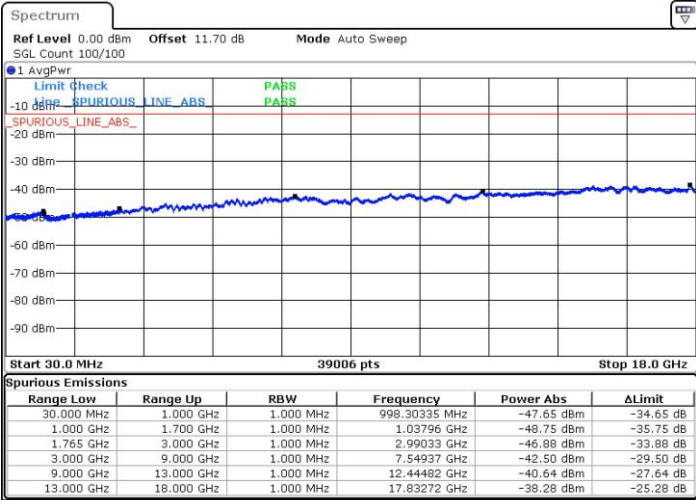
Date: 16.AUG.2018 20:16:48



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

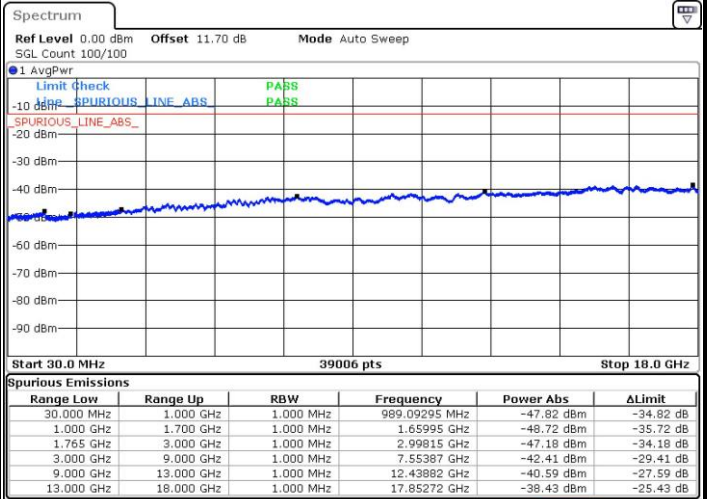
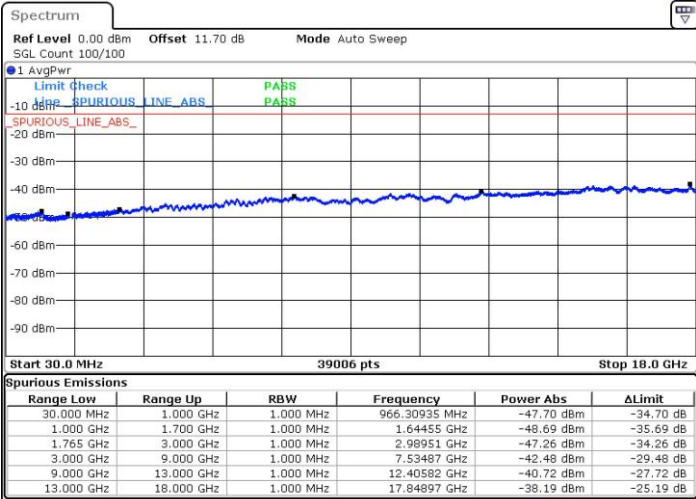


Date: 16.AUG.2018 20:18:44

Date: 16.AUG.2018 20:19:55

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.AUG.2018 20:28:31

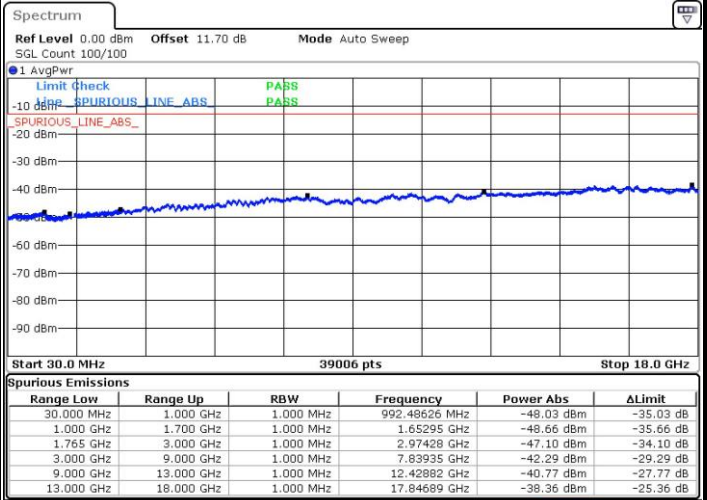
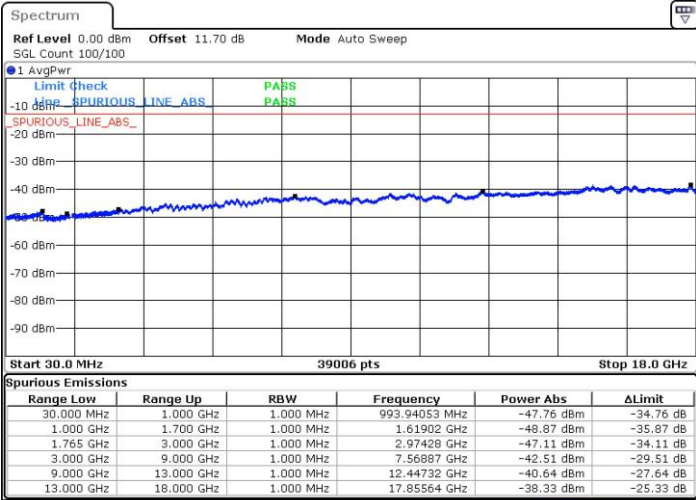
Date: 16.AUG.2018 20:29:42



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

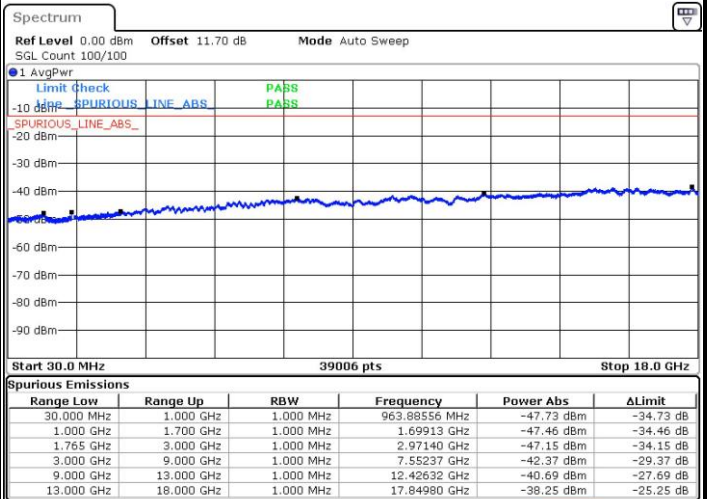
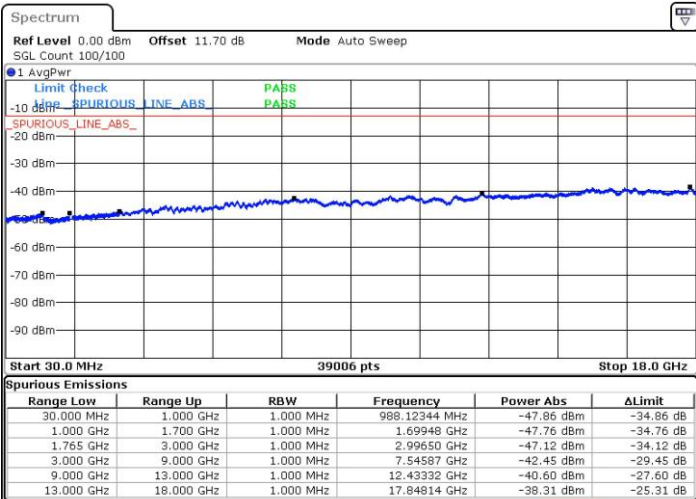


Date: 16.AUG.2018 20:38:18

Date: 16.AUG.2018 20:39:28

Middle Channel / QPSK

Middle Channel / 16QAM



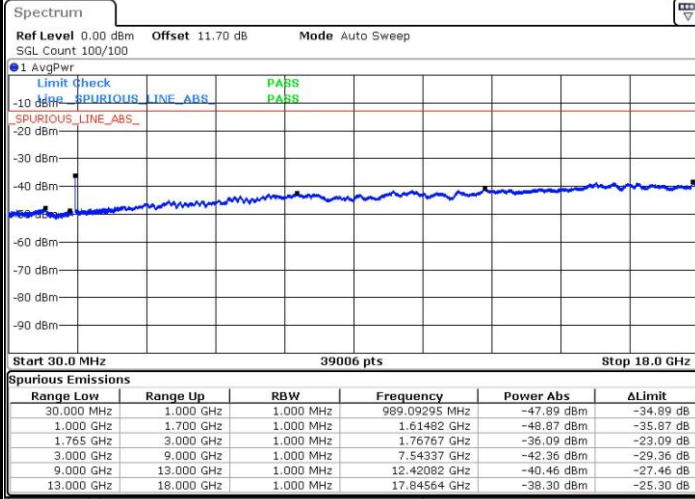
Date: 16.AUG.2018 20:41:24

Date: 16.AUG.2018 20:42:35



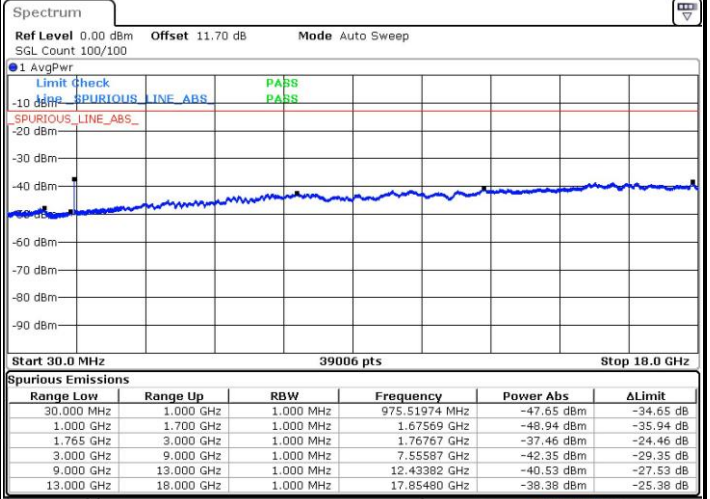
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 16.AUG.2018 20:51:11

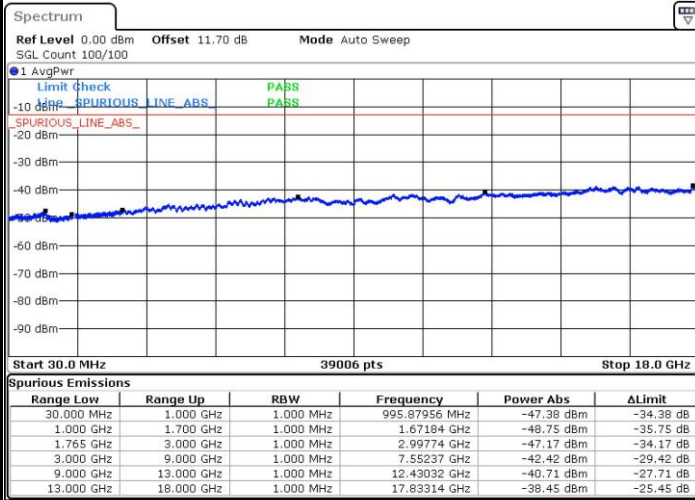
Highest Channel / 16QAM



Date: 16.AUG.2018 20:52:22

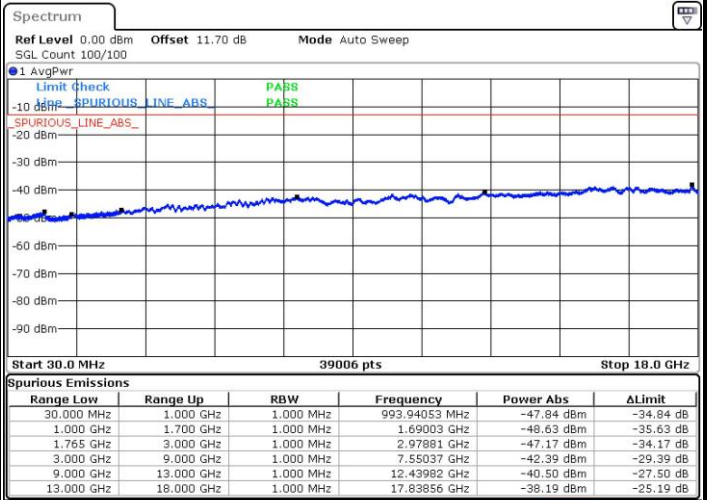
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 16.AUG.2018 21:00:58

Lowest Channel / 16QAM



Date: 16.AUG.2018 21:02:09

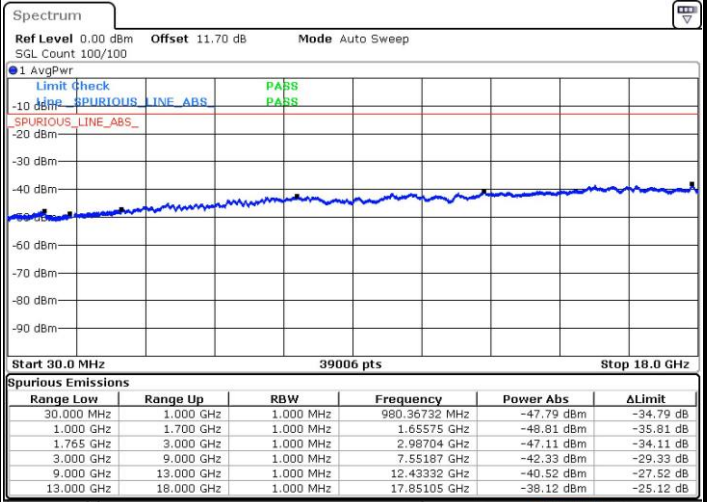
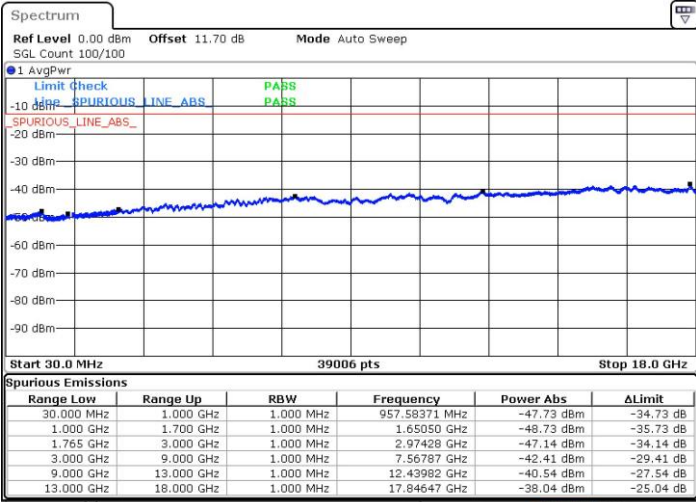




LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

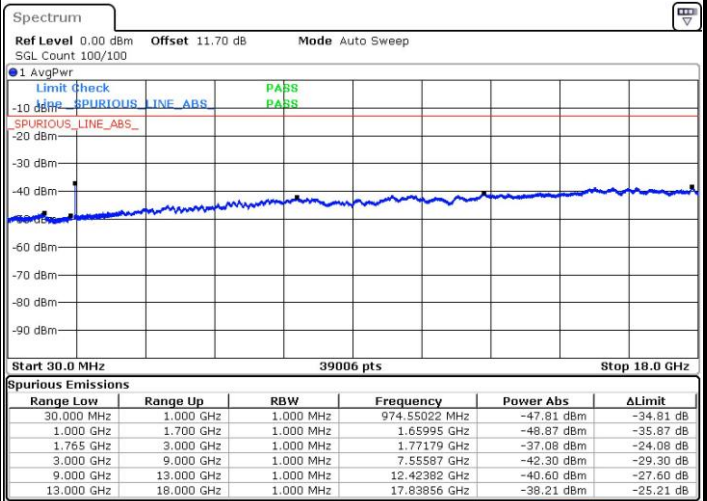
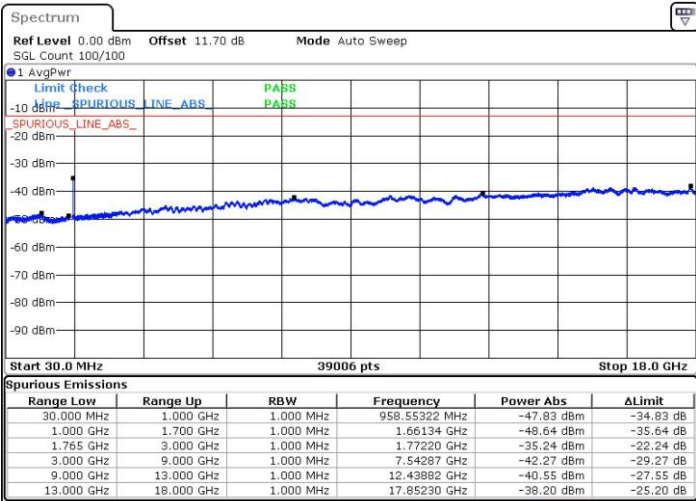


Date: 16.AUG.2018 21:04:05

Date: 16.AUG.2018 21:05:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.AUG.2018 21:13:53

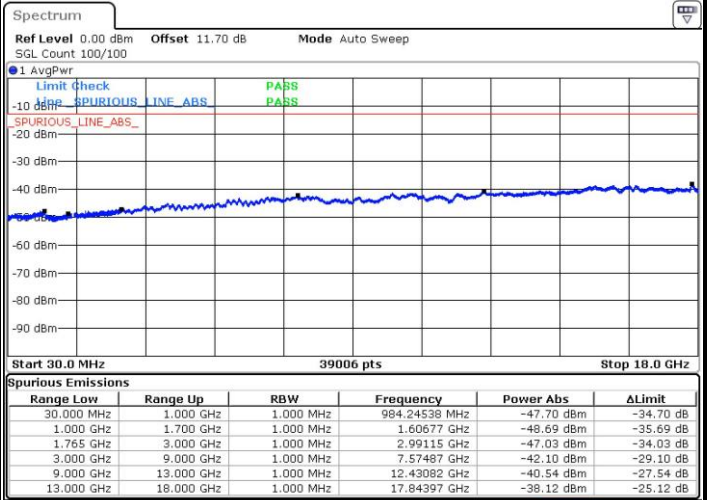
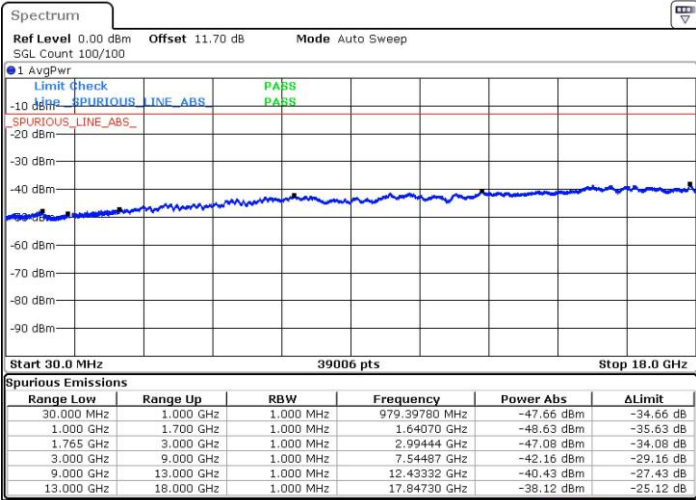
Date: 16.AUG.2018 21:15:03



LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM

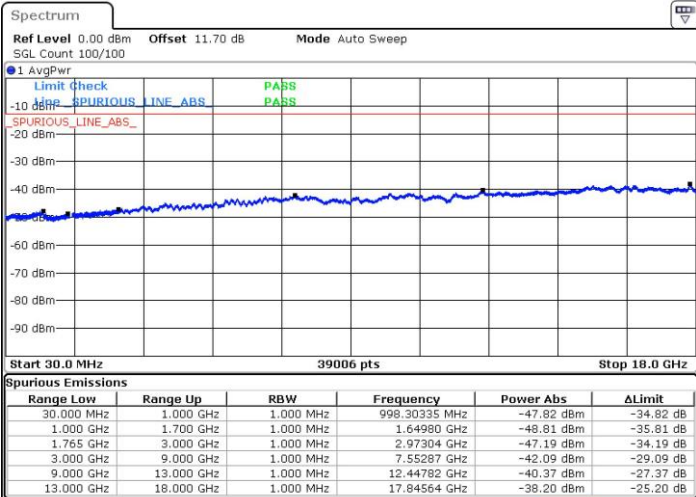
Middle Channel / 64QAM



Date: 16.AUG.2018 22:32:56

Date: 16.AUG.2018 22:34:14

Highest Channel / 64QAM



Date: 16.AUG.2018 22:37:52

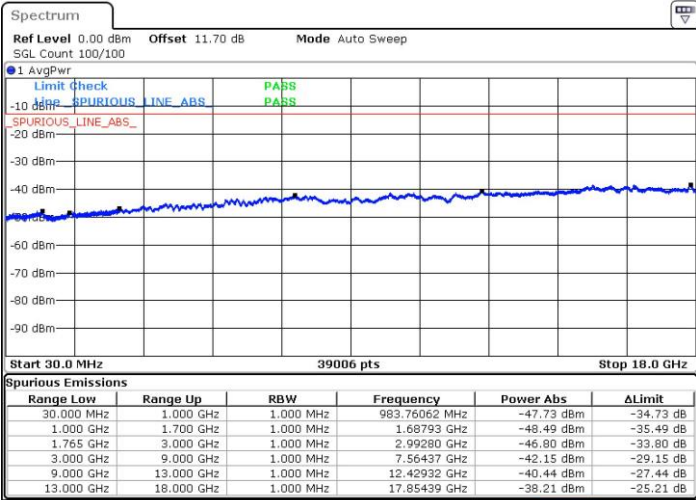




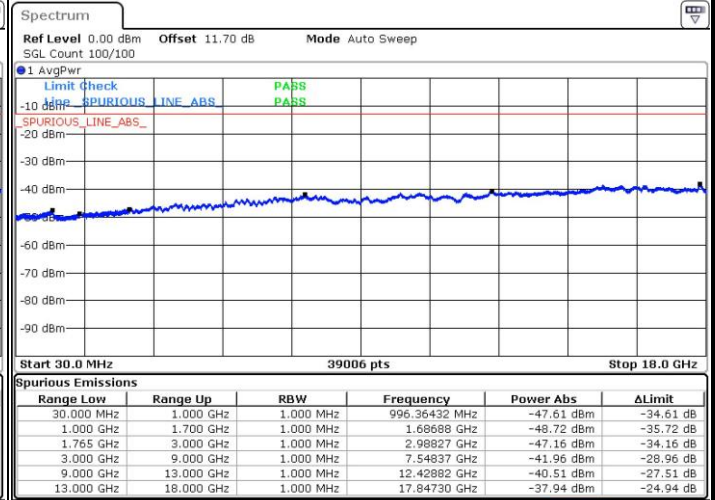
LTE Band 4 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

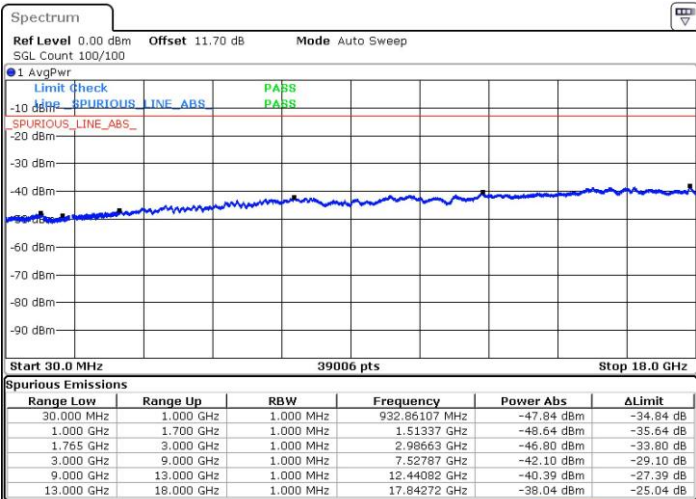


Date: 16.AUG.2018 22:16:23



Date: 16.AUG.2018 22:17:18

Highest Channel / 64QAM

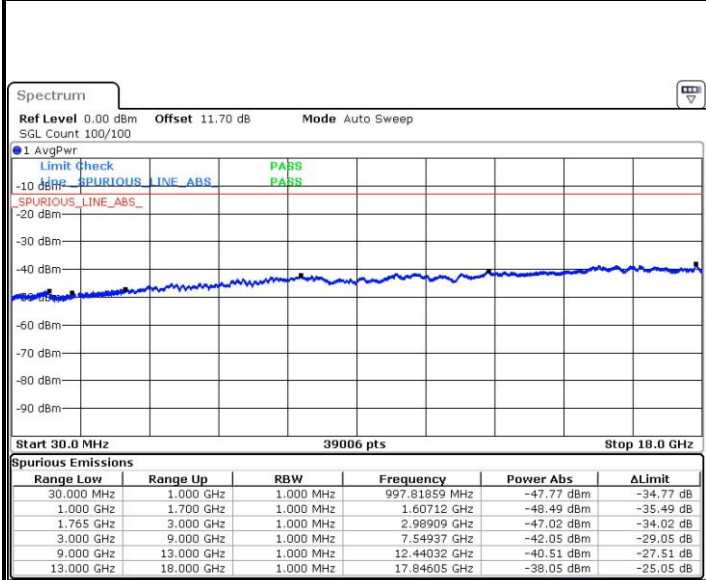


Date: 16.AUG.2018 22:18:13



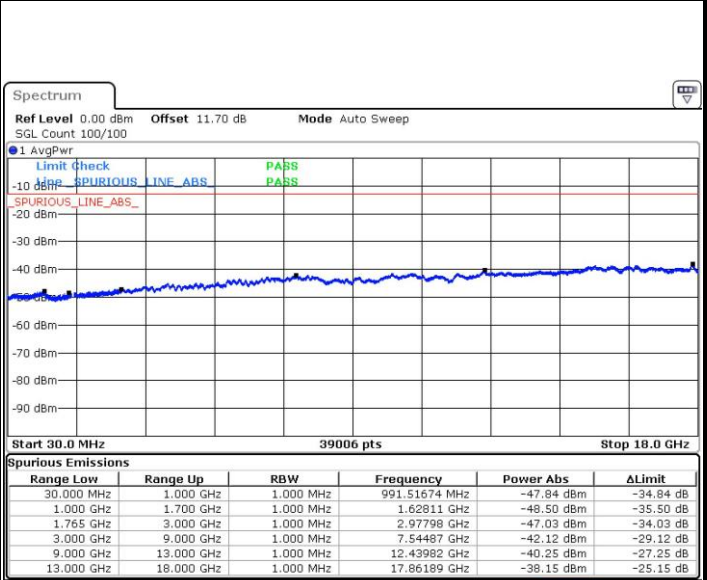
**LTE Band 4 / 5MHz**

**Lowest Channel / 64QAM**



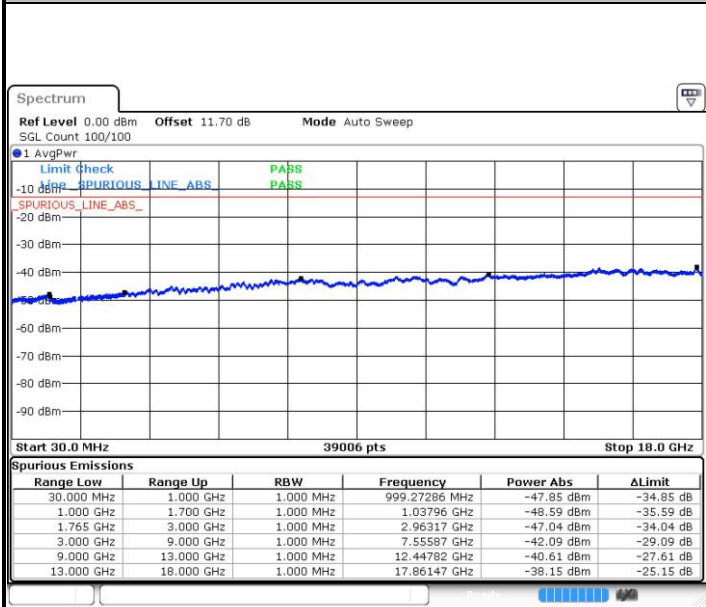
Date: 16.AUG.2018 22:19:08

**Middle Channel / 64QAM**



Date: 16.AUG.2018 22:20:04

**Highest Channel / 64QAM**



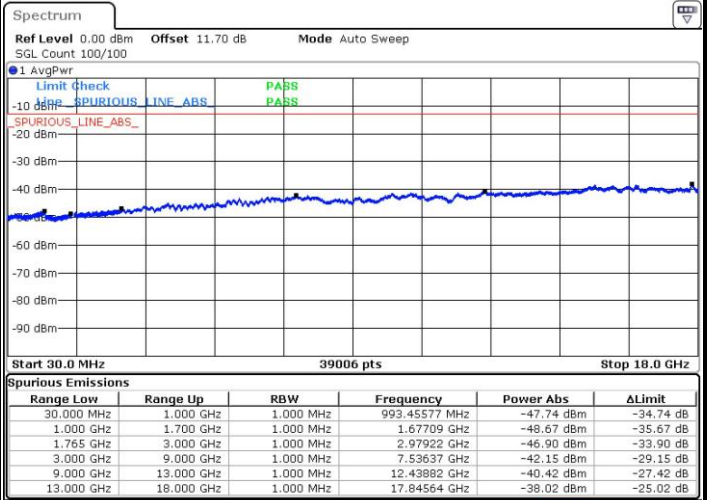
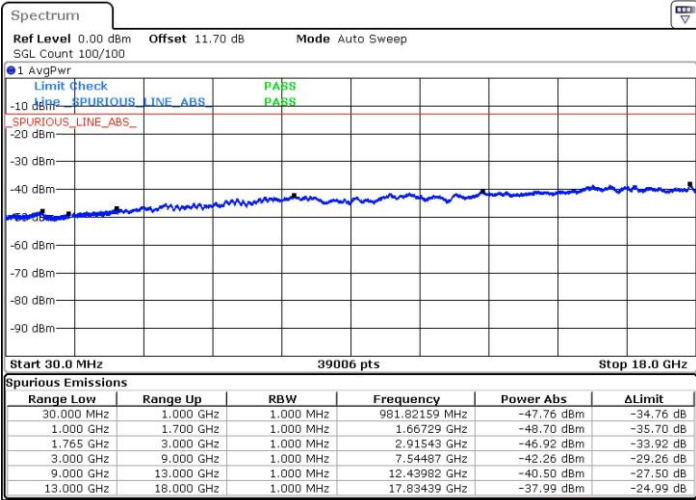
Date: 16.AUG.2018 22:20:59



LTE Band 4 / 10MHz

Lowest Channel / 64QAM

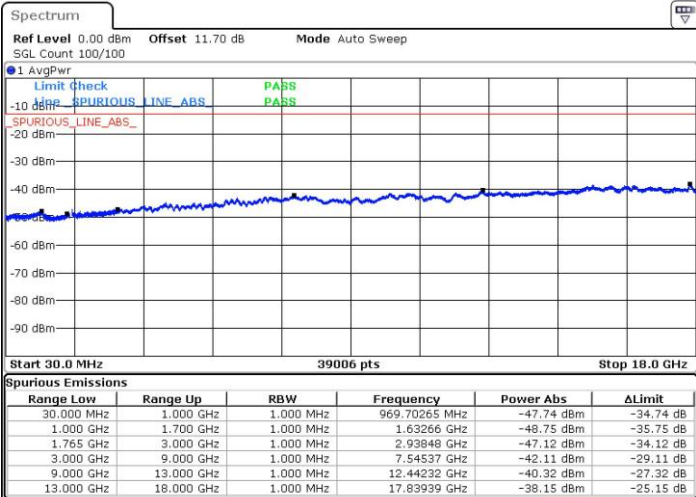
Middle Channel / 64QAM



Date: 16.AUG.2018 22:21:55

Date: 16.AUG.2018 22:22:50

Highest Channel / 64QAM



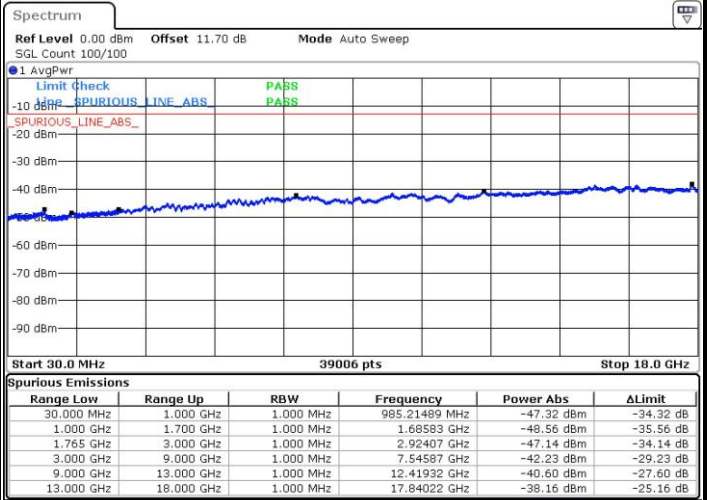
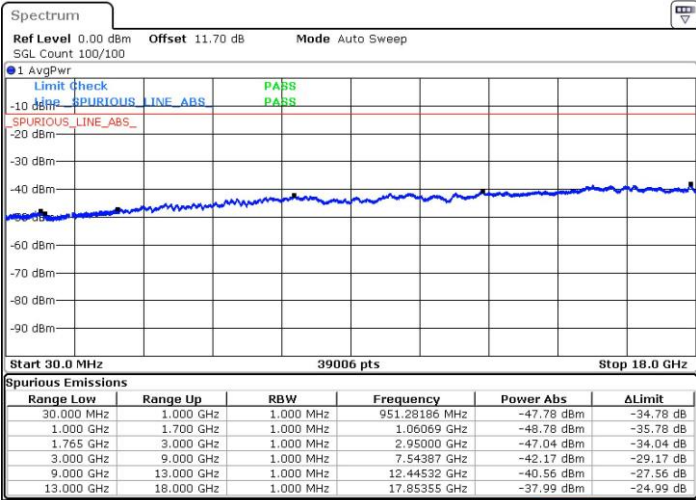
Date: 16.AUG.2018 22:23:45



LTE Band 4 / 15MHz

Lowest Channel / 64QAM

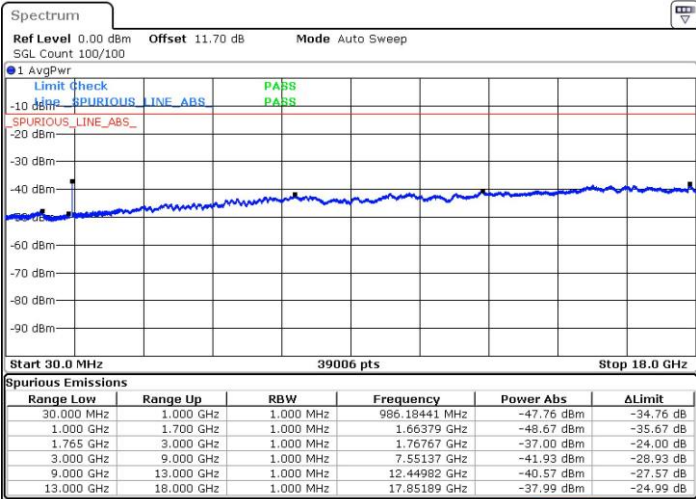
Middle Channel / 64QAM



Date: 16.AUG.2018 22:24:41

Date: 16.AUG.2018 22:25:36

Highest Channel / 64QAM

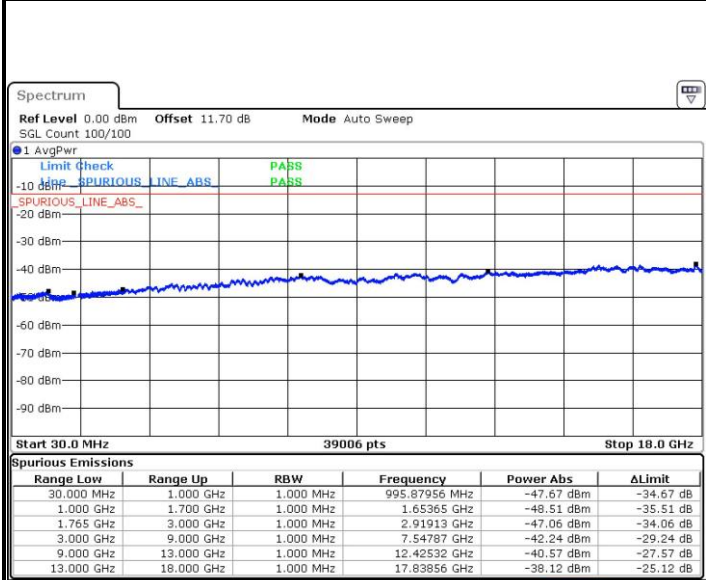


Date: 16.AUG.2018 22:26:31



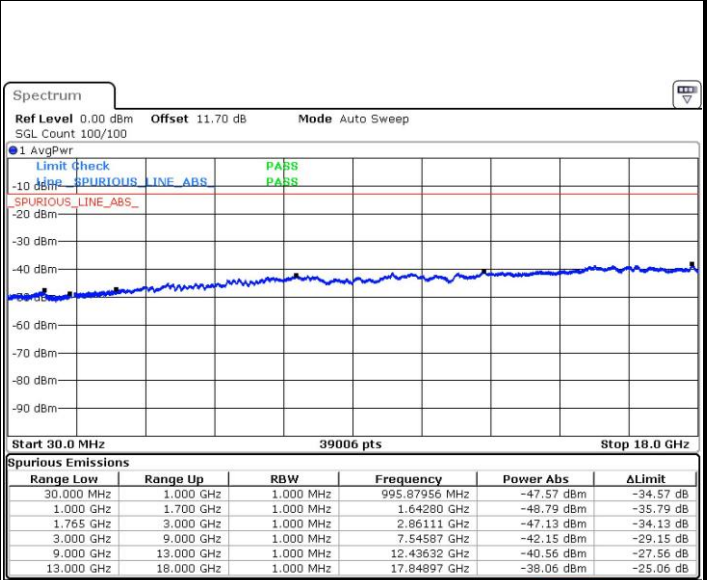
**LTE Band 4 / 20MHz**

**Lowest Channel / 64QAM**



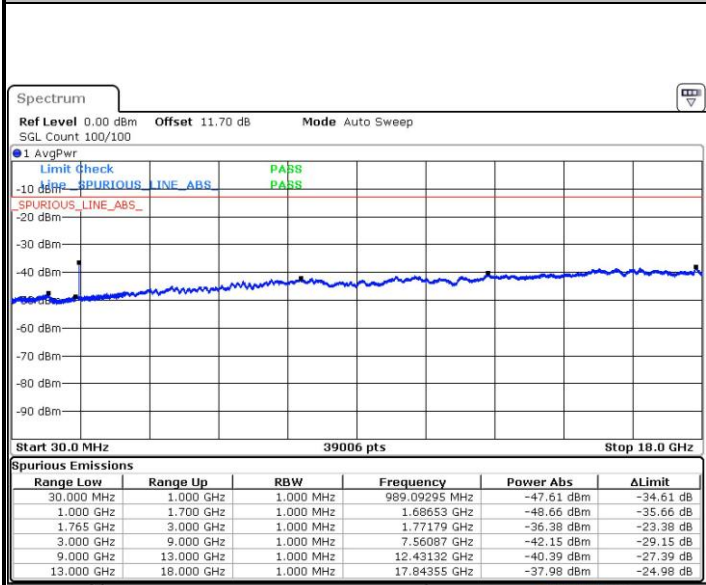
Date: 16.AUG.2018 22:27:27

**Middle Channel / 64QAM**



Date: 16.AUG.2018 22:28:22

**Highest Channel / 64QAM**



Date: 16.AUG.2018 22:29:18



**Frequency Stability**

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0070	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0071	
-20	Normal Voltage	0.0063	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

**Note:**

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.





## LTE Band 5

### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.75	5.42	6.06	<b>PASS</b>
Middle CH	3.68	4.99	5.48	6.17	
Highest CH	3.74	4.81	5.59	6.06	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.96	6.67	-	-	<b>PASS</b>
Middle CH	6.93	6.78	-	-	
Highest CH	7.51	6.70	-	-	



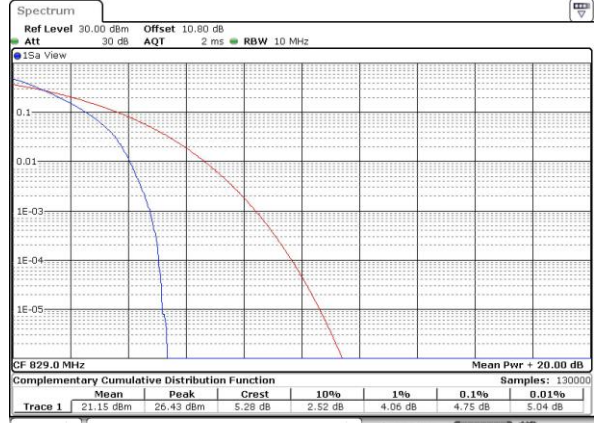
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 19 AUG 2018 18:08:11

Lowest Channel / Full RB



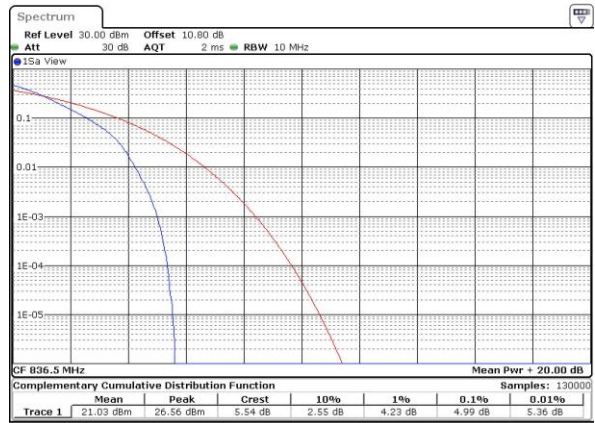
Date: 19 AUG 2018 18:08:43

Middle Channel / 1RB



Date: 19 AUG 2018 18:08:55

Middle Channel / Full RB



Date: 19 AUG 2018 18:09:10

Highest Channel / 1RB



Date: 19 AUG 2018 18:09:22

Highest Channel / Full RB

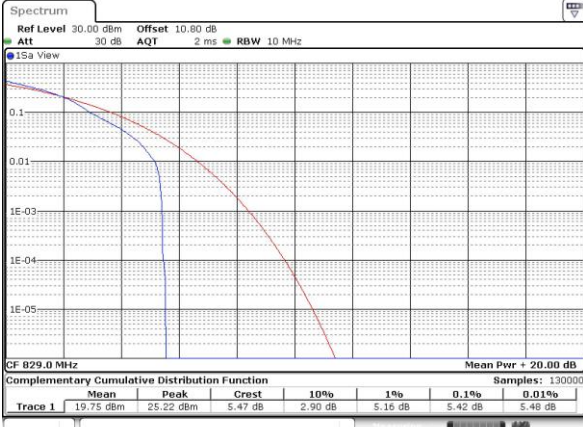


Date: 19 AUG 2018 18:09:33



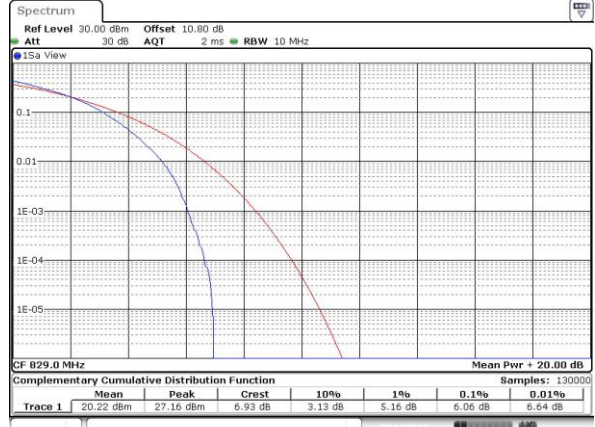
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



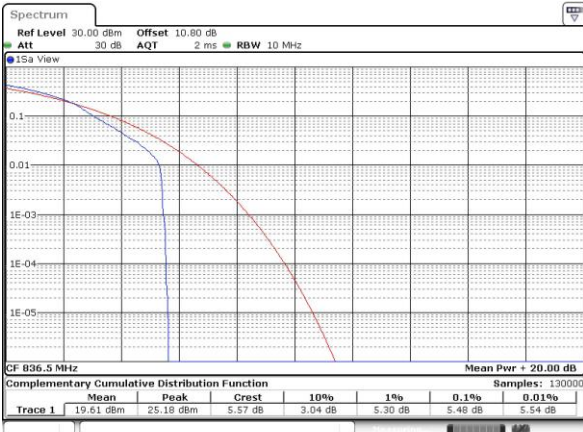
Date: 19 AUG 2018 18:05:54

Lowest Channel / Full RB



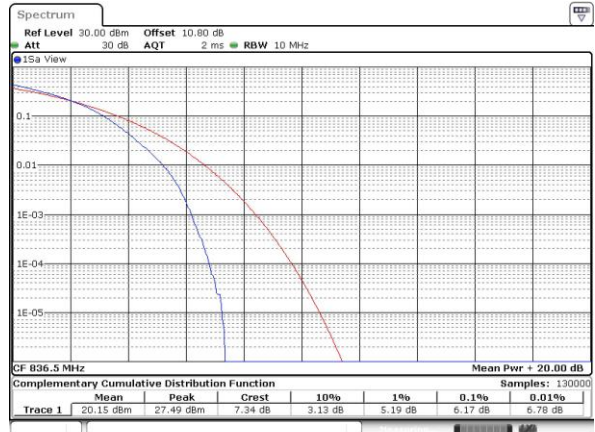
Date: 19 AUG 2018 18:06:06

Middle Channel / 1RB



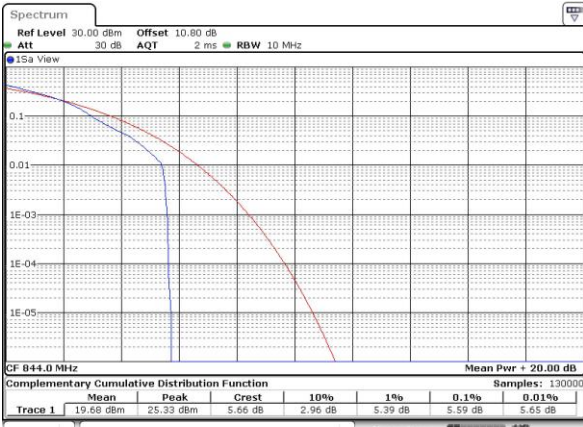
Date: 19 AUG 2018 18:06:17

Middle Channel / Full RB



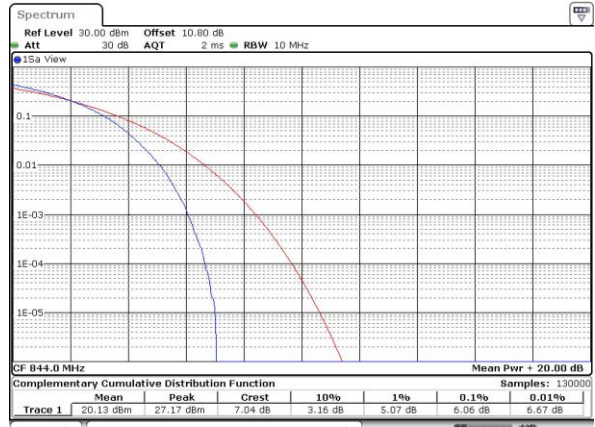
Date: 19 AUG 2018 18:06:28

Highest Channel / 1RB



Date: 19 AUG 2018 18:06:41

Highest Channel / Full RB



Date: 19 AUG 2018 18:06:52



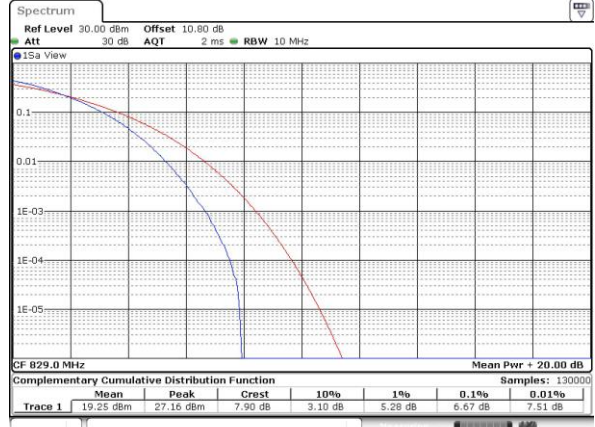
LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



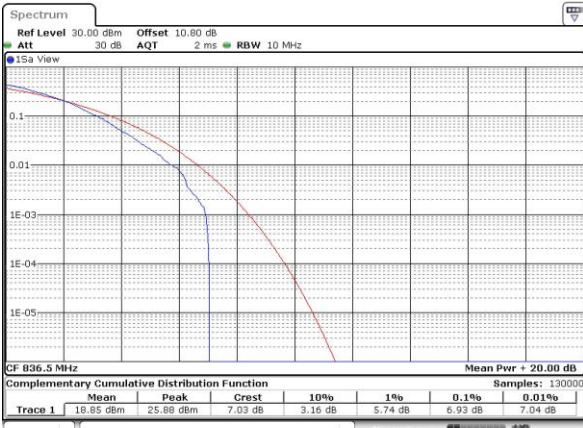
Date: 19 AUG 2018 18:09:44

Lowest Channel / Full RB



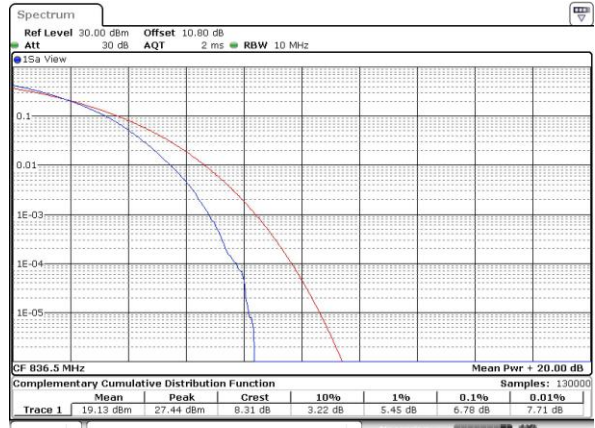
Date: 19 AUG 2018 18:09:58

Middle Channel / 1RB



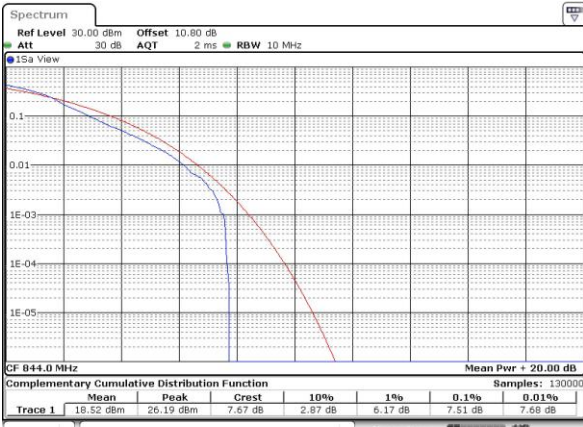
Date: 19 AUG 2018 18:10:09

Middle Channel / Full RB



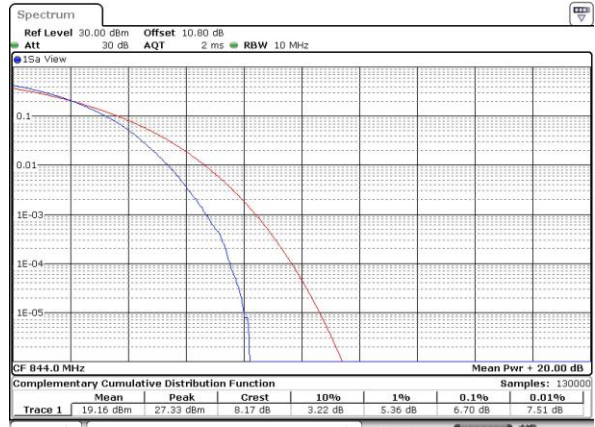
Date: 19 AUG 2018 18:10:21

Highest Channel / 1RB



Date: 19 AUG 2018 18:10:34

Highest Channel / Full RB



Date: 19 AUG 2018 18:10:47