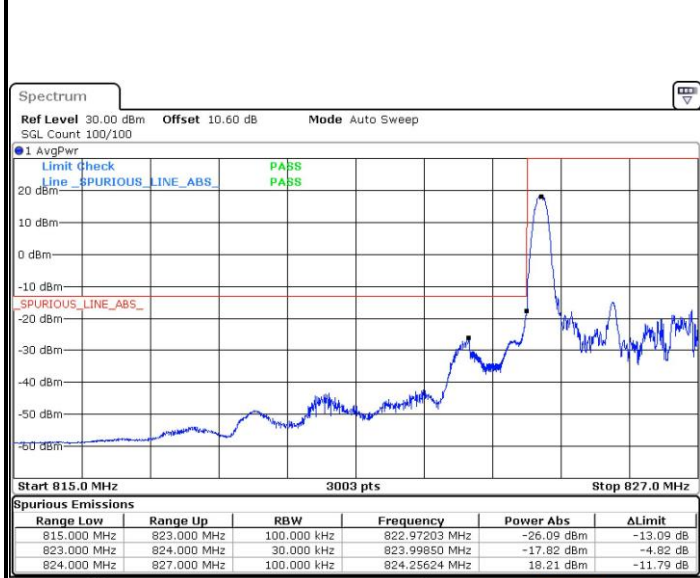




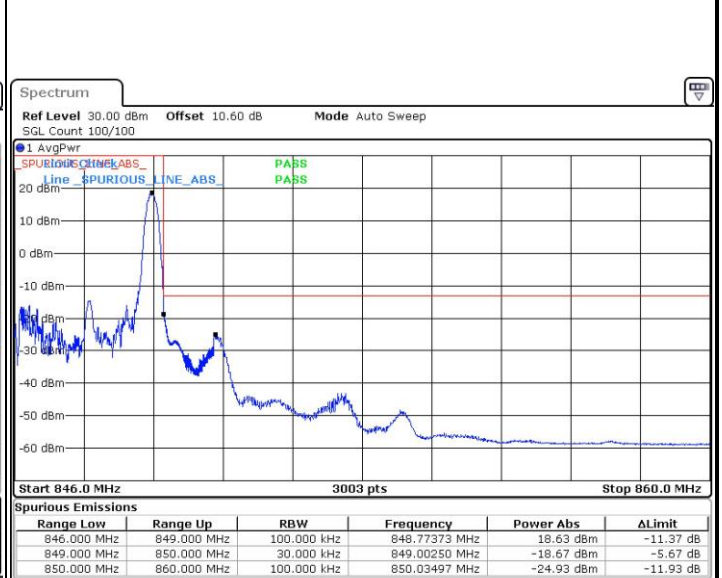
**LTE Band 5 / 3MHz / 16QAM**

**Lowest Band Edge / 1 RB**



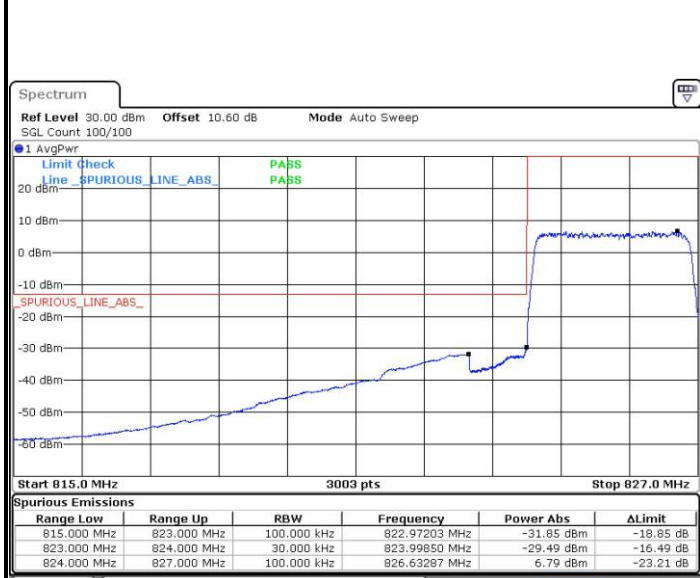
Date: 30.MAR.2018 17:21:46

**Highest Band Edge / 1 RB**



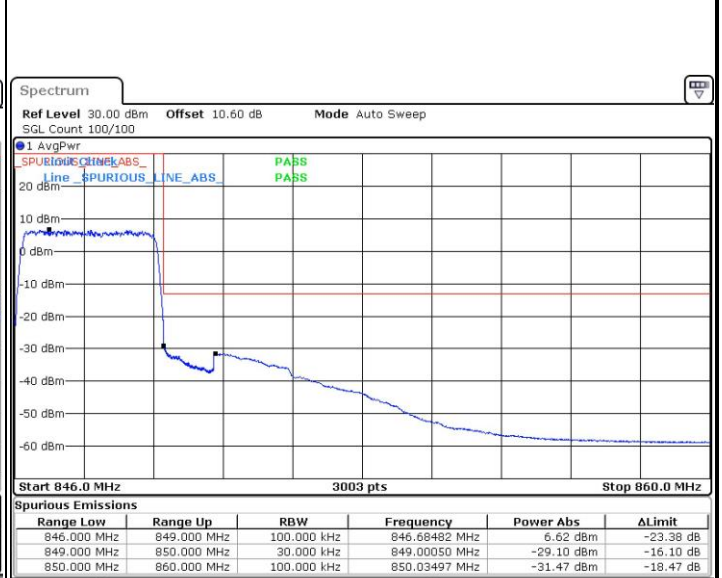
Date: 30.MAR.2018 17:33:17

**Lowest Band Edge / Full RB**



Date: 30.MAR.2018 17:25:02

**Highest Band Edge / Full RB**

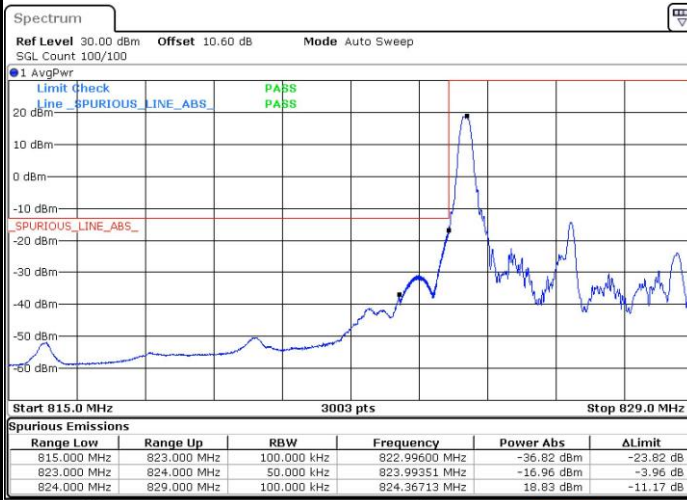


Date: 30.MAR.2018 17:36:33



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



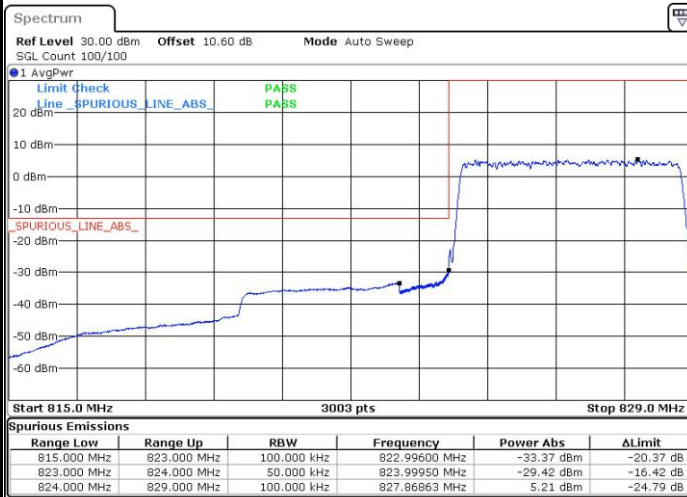
Date: 30.MAR.2018 17:40:41

Highest Band Edge / 1 RB



Date: 30.MAR.2018 17:52:13

Lowest Band Edge / Full RB



Date: 30.MAR.2018 17:43:58

Highest Band Edge / Full RB

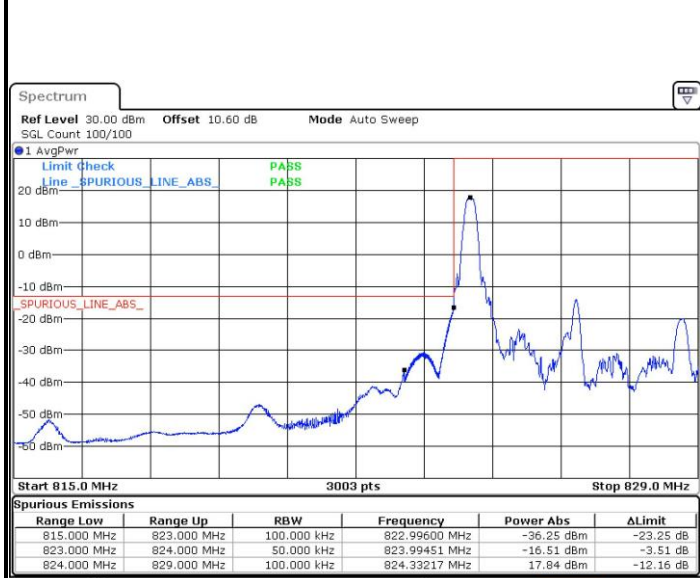


Date: 30.MAR.2018 17:55:29



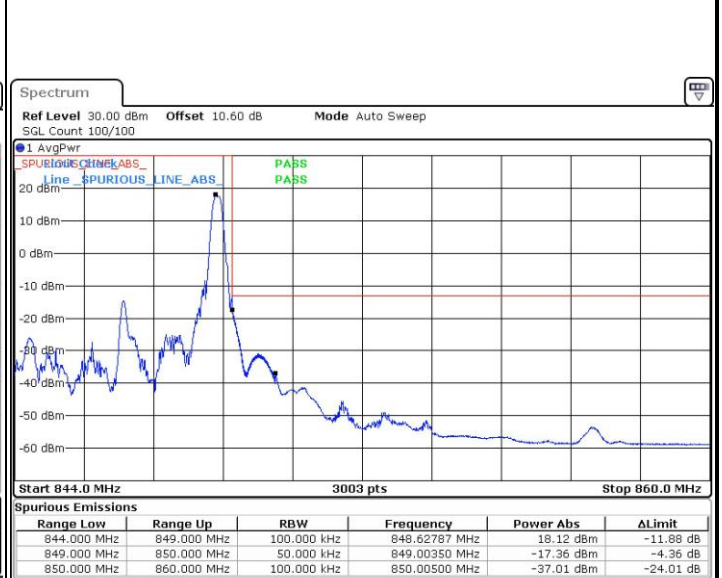
**LTE Band 5 / 5MHz / 16QAM**

**Lowest Band Edge / 1RB**



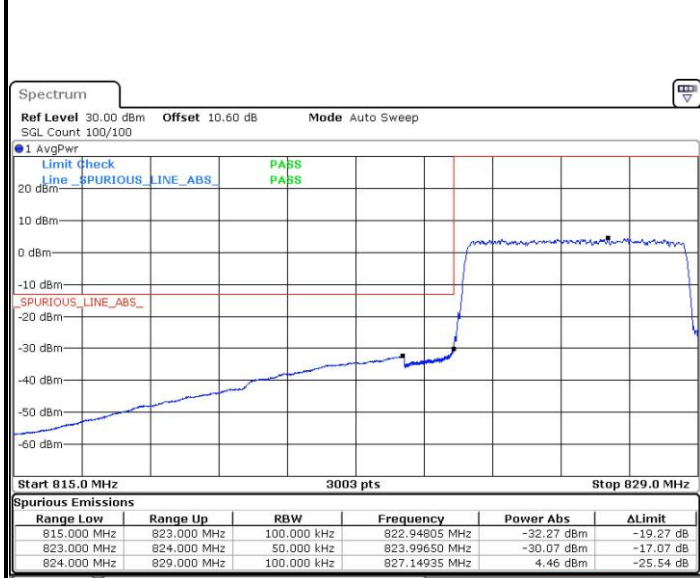
Date: 30.MAR.2018 17:42:19

**Highest Band Edge / 1 RB**



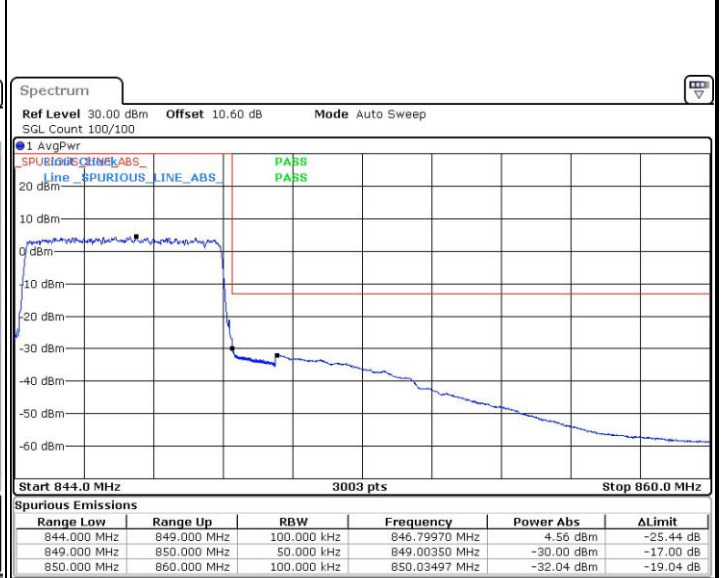
Date: 30.MAR.2018 17:53:51

**Lowest Band Edge / Full RB**



Date: 30.MAR.2018 17:45:36

**Highest Band Edge / Full RB**

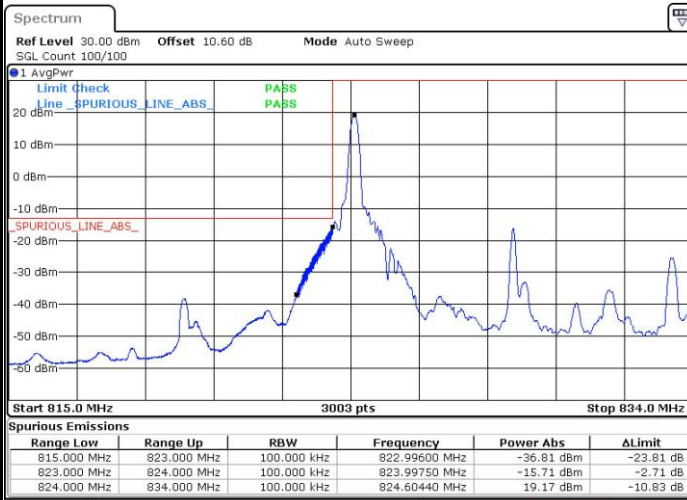


Date: 30.MAR.2018 17:57:07



LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



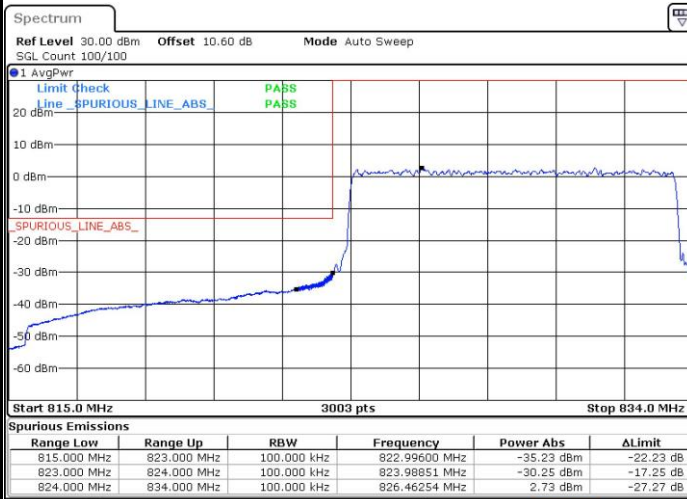
Date: 30.MAR.2018 18:01:15

Highest Band Edge / 1 RB



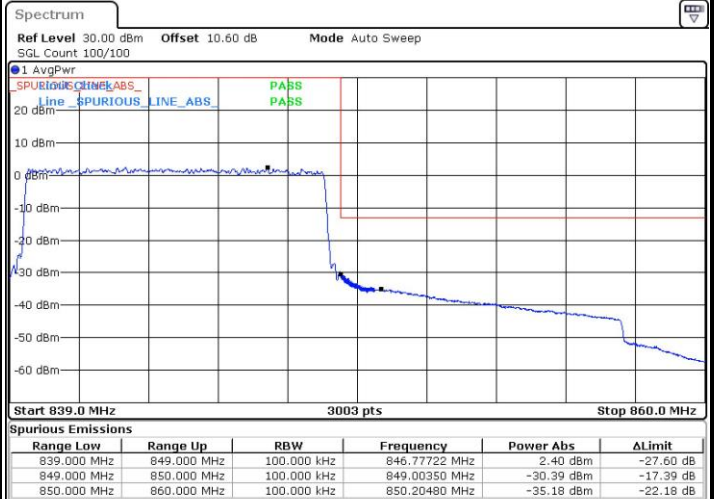
Date: 30.MAR.2018 18:12:46

Lowest Band Edge / Full RB



Date: 30.MAR.2018 18:04:31

Highest Band Edge / Full RB

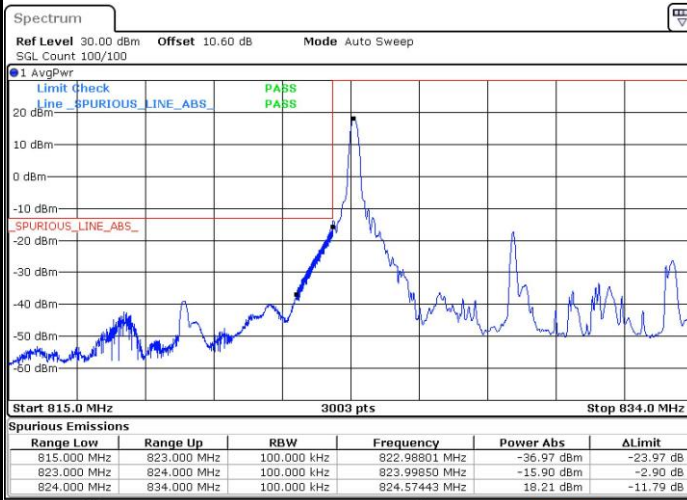


Date: 30.MAR.2018 18:16:02



LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



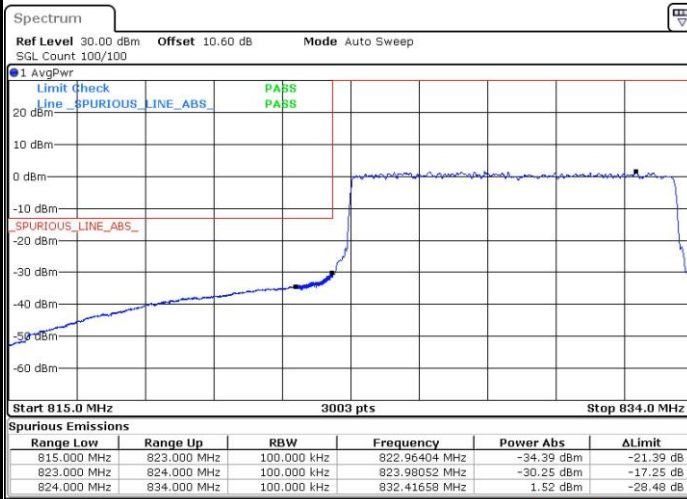
Date: 30.MAR.2018 18:02:52

Highest Band Edge / 1 RB



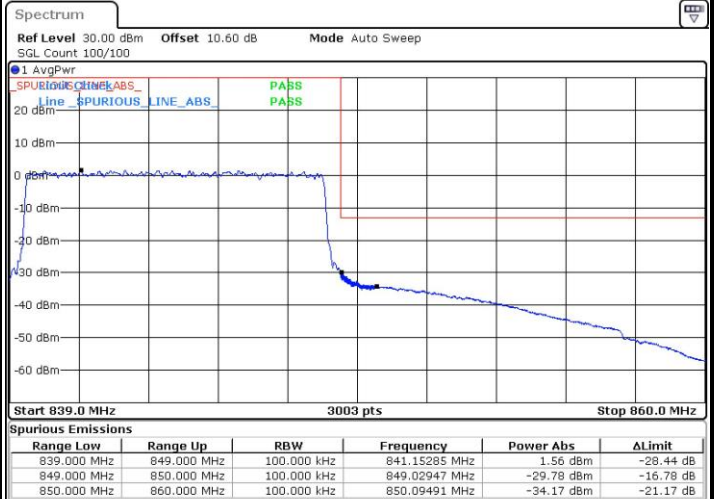
Date: 30.MAR.2018 18:14:24

Lowest Band Edge / Full RB



Date: 30.MAR.2018 18:06:09

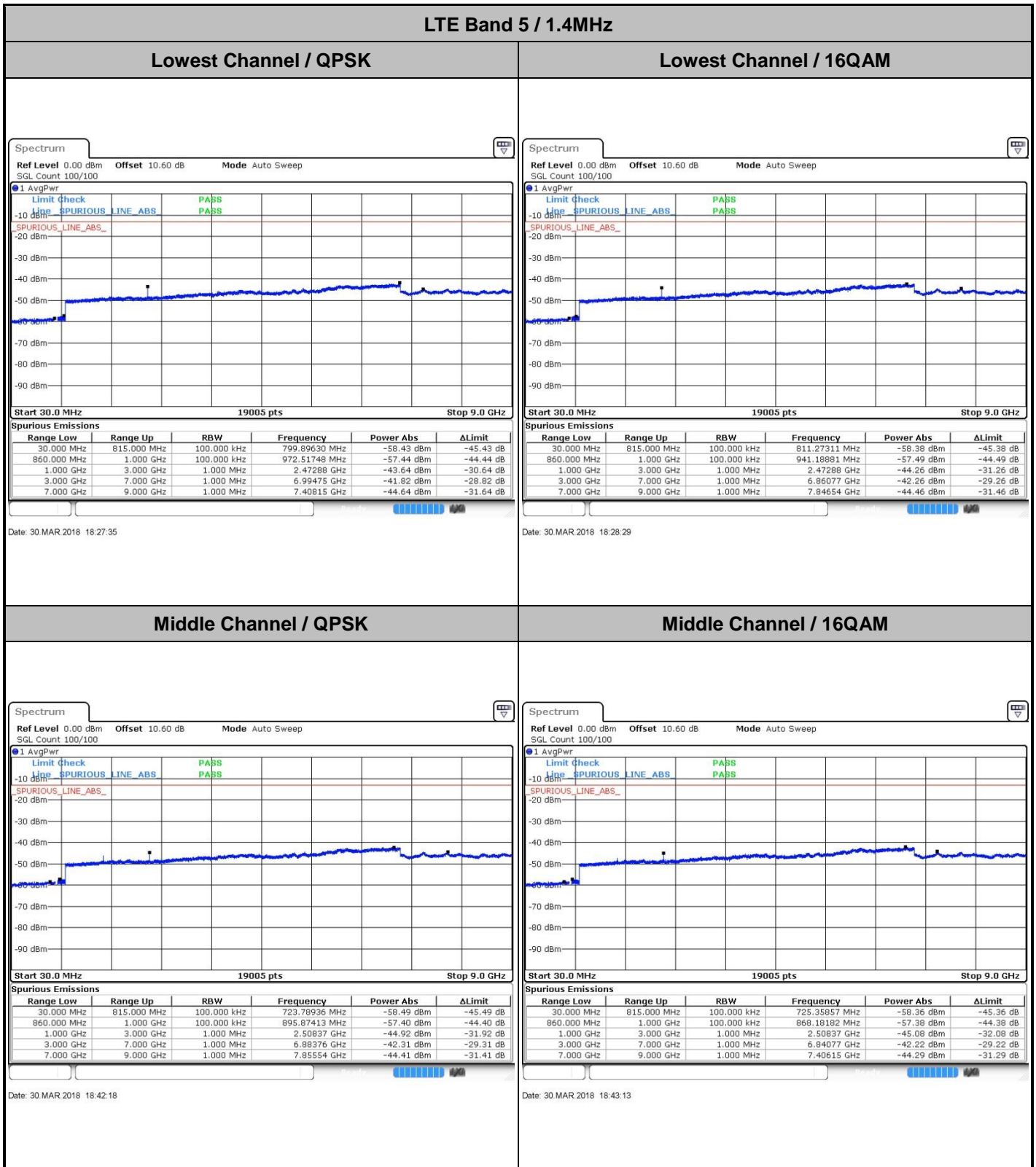
Highest Band Edge / Full RB



Date: 30.MAR.2018 18:17:40



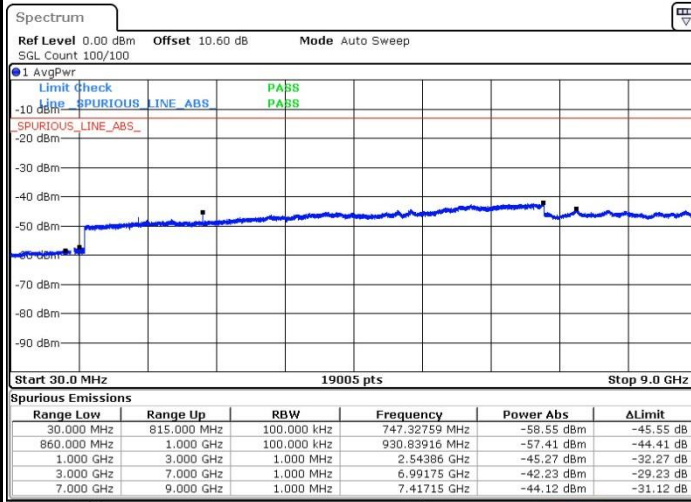
# Conducted Spurious Emission





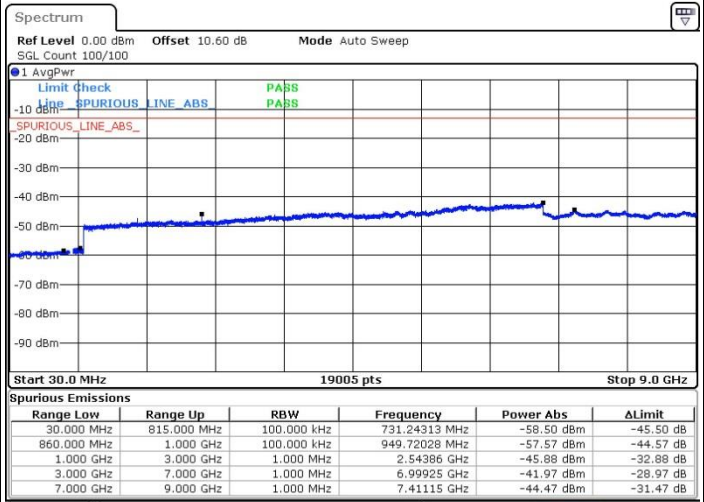
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 30.MAR.2018 18:51:20

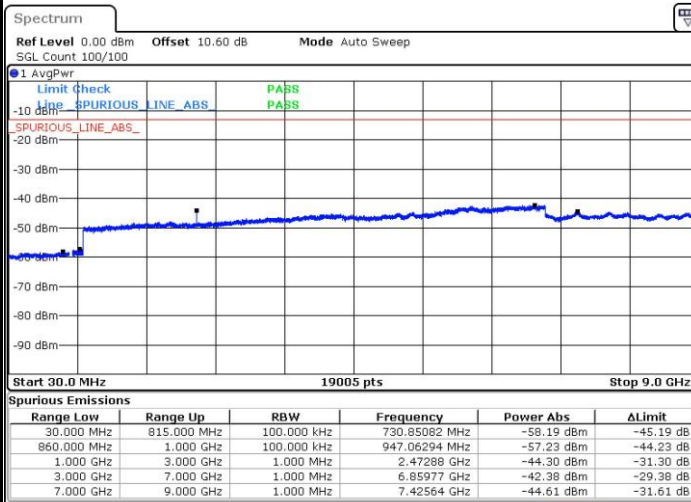
Highest Channel / 16QAM



Date: 30.MAR.2018 18:52:14

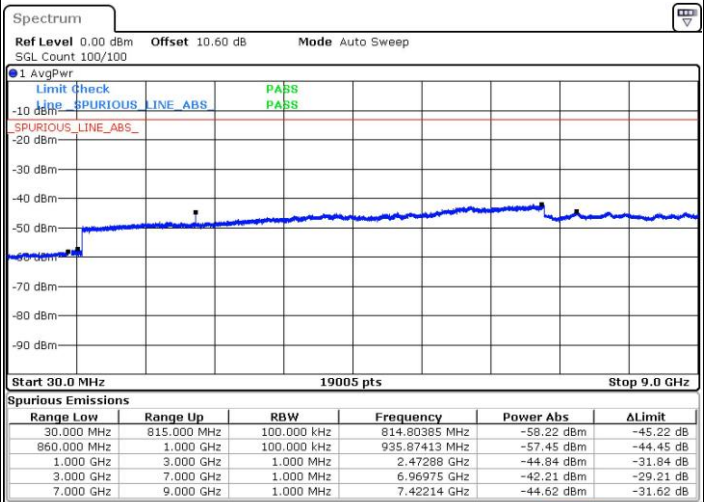
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 30.MAR.2018 17:25:55

Lowest Channel / 16QAM

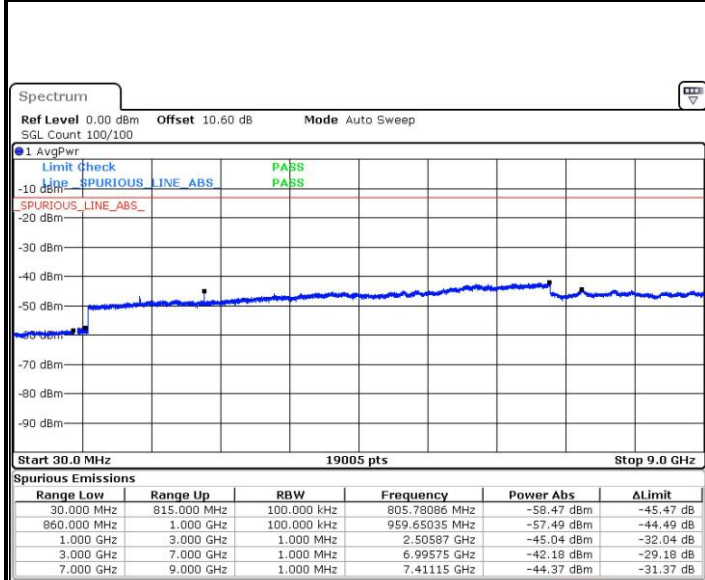


Date: 30.MAR.2018 17:26:50



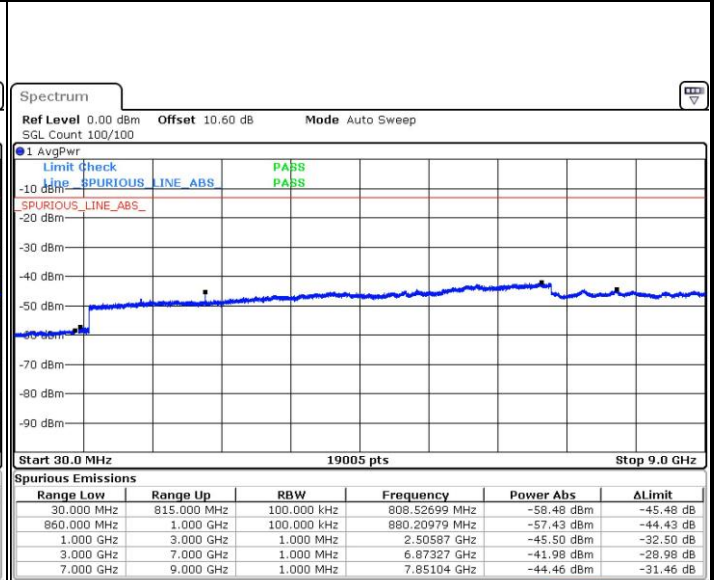
LTE Band 5 / 3MHz

Middle Channel / QPSK



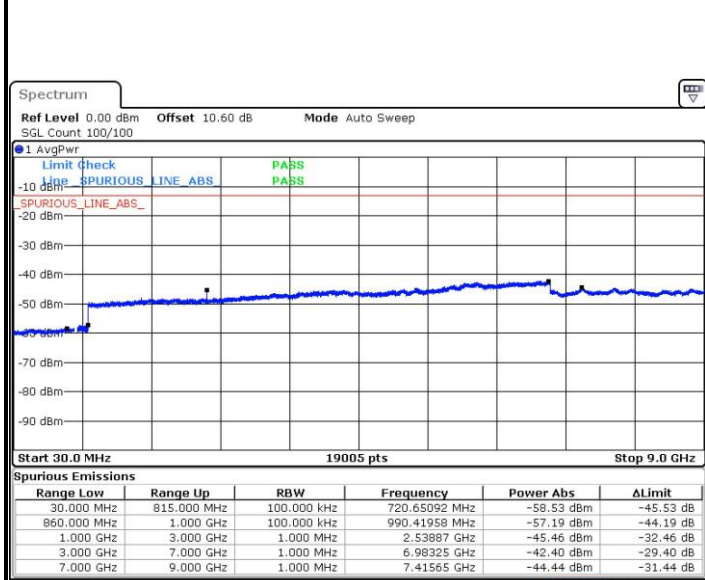
Date: 30.MAR.2018 17:28:25

Middle Channel / 16QAM



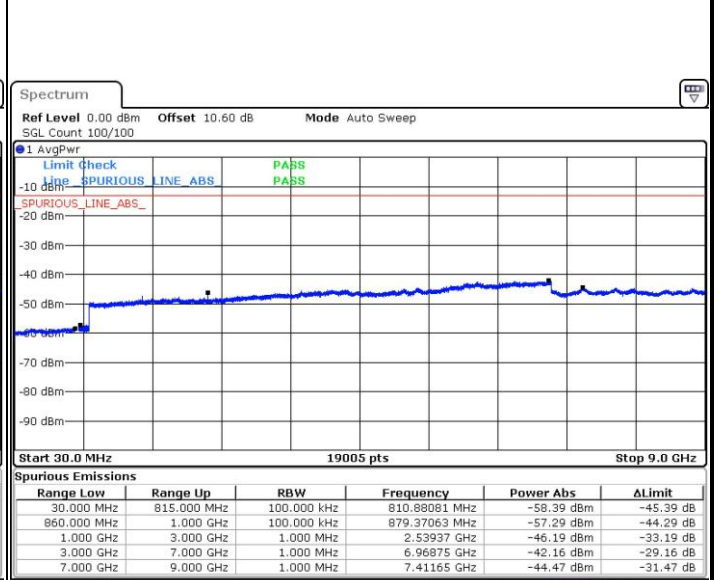
Date: 30.MAR.2018 17:29:20

Highest Channel / QPSK



Date: 30.MAR.2018 17:37:27

Highest Channel / 16QAM



Date: 30.MAR.2018 17:38:21

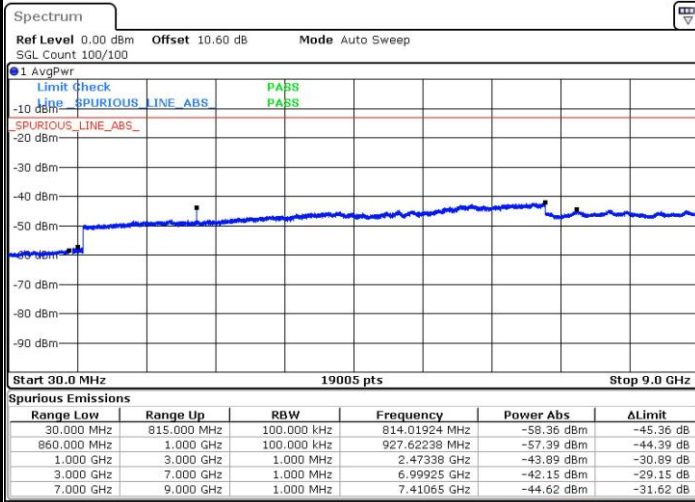




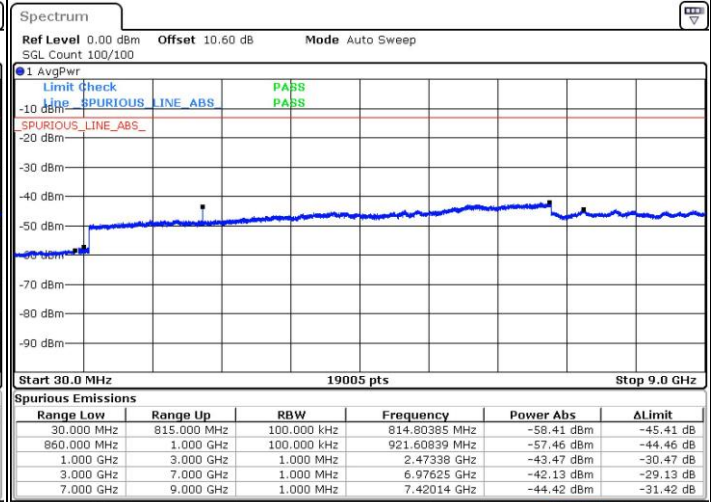
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



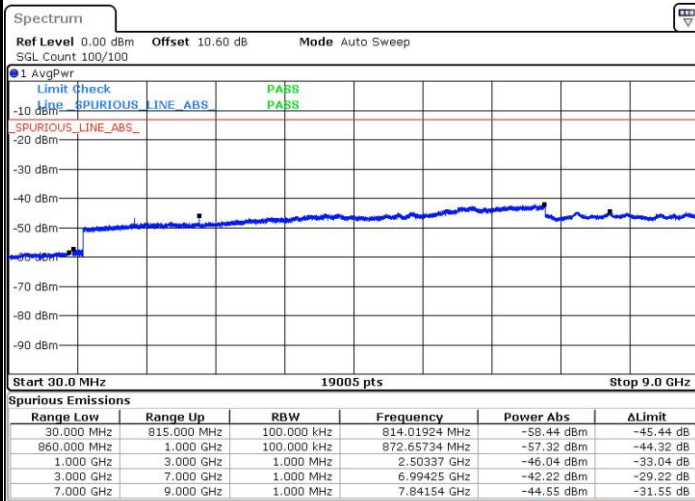
Date: 30.MAR.2018 17:46:29



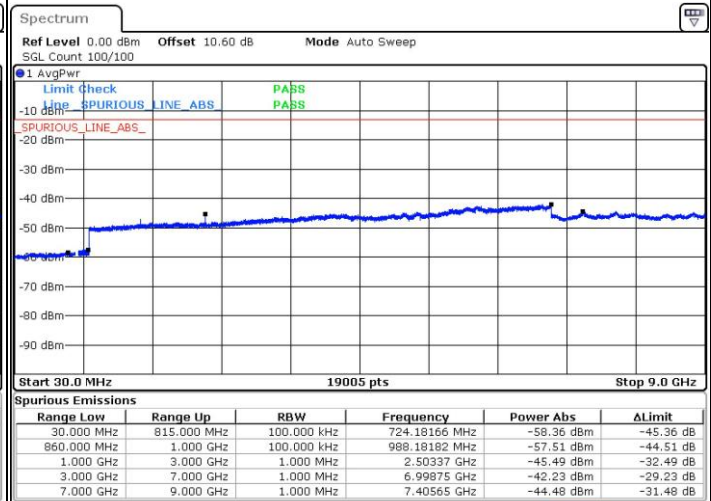
Date: 30.MAR.2018 17:47:23

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 30.MAR.2018 17:48:59

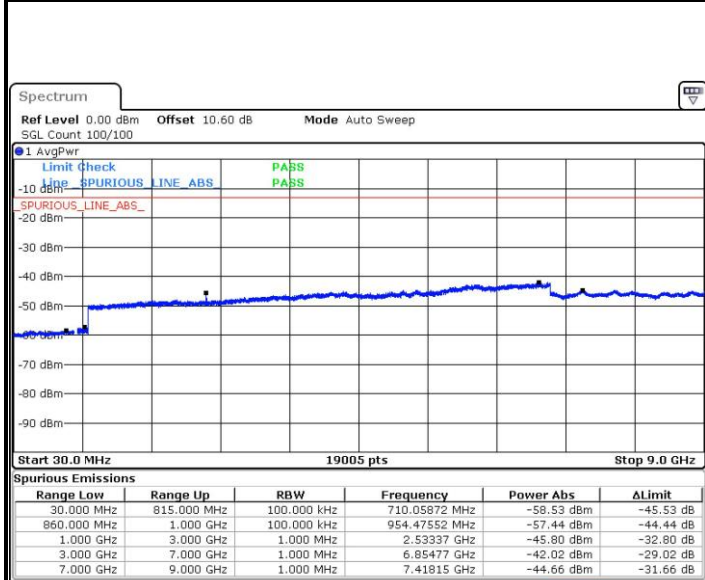


Date: 30.MAR.2018 17:49:53



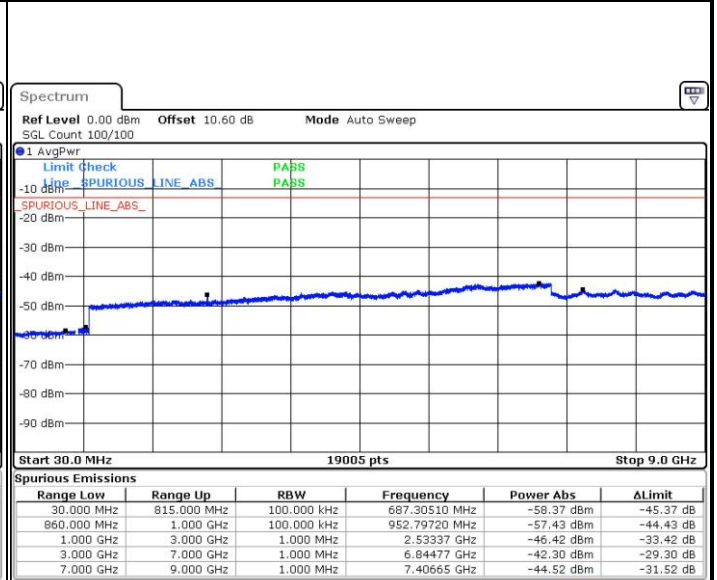
**LTE Band 5 / 5MHz**

**Highest Channel / QPSK**



Date: 30.MAR.2018 17:58:00

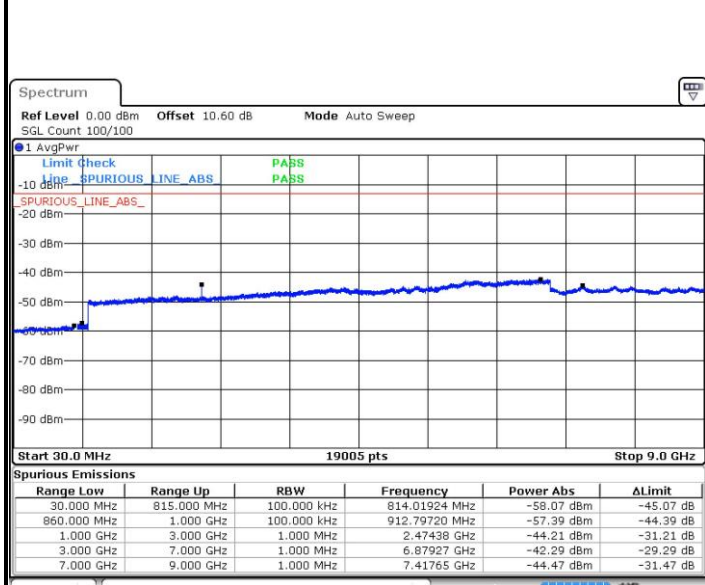
**Highest Channel / 16QAM**



Date: 30.MAR.2018 17:58:55

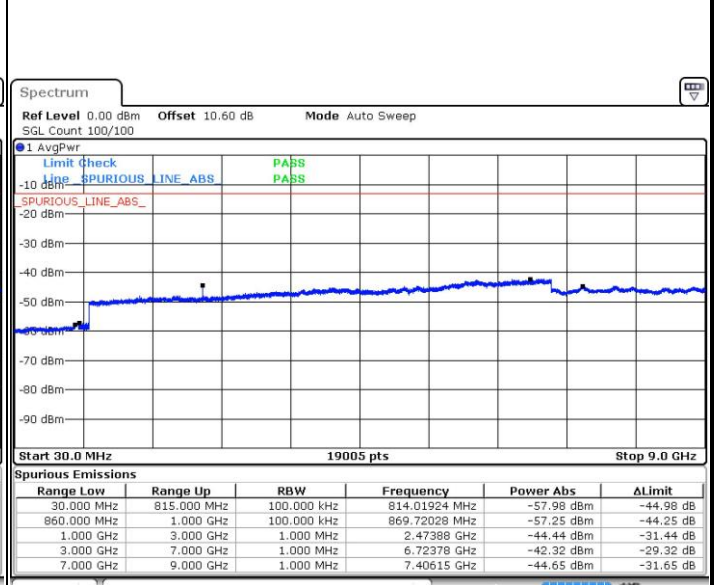
**LTE Band 5 / 10MHz**

**Lowest Channel / QPSK**



Date: 30.MAR.2018 18:07:02

**Lowest Channel / 16QAM**



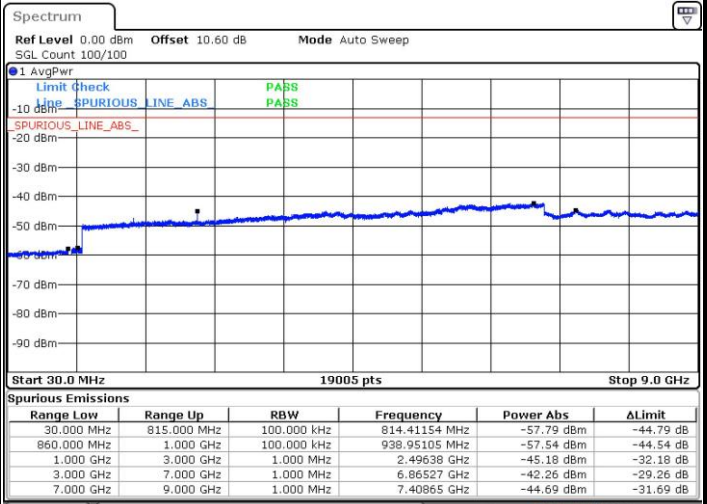
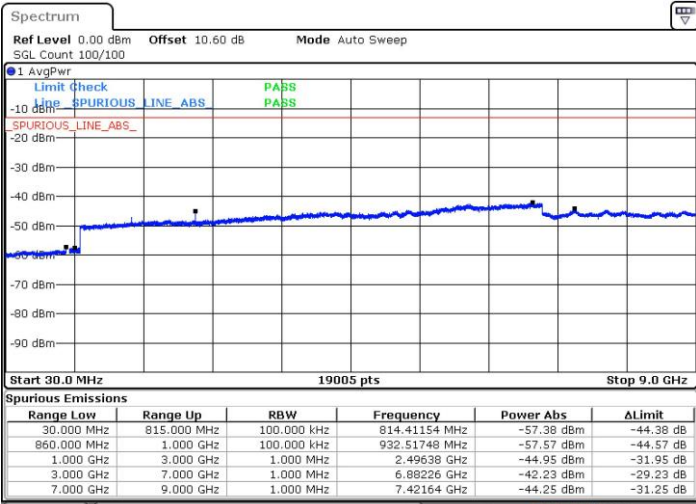
Date: 30.MAR.2018 18:07:57



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

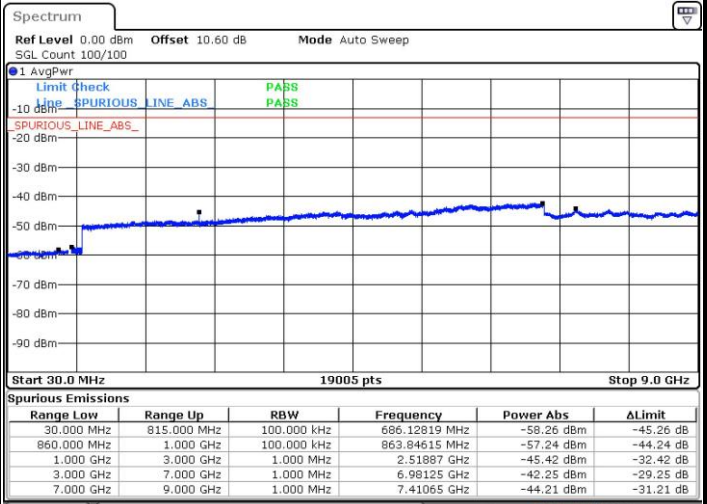
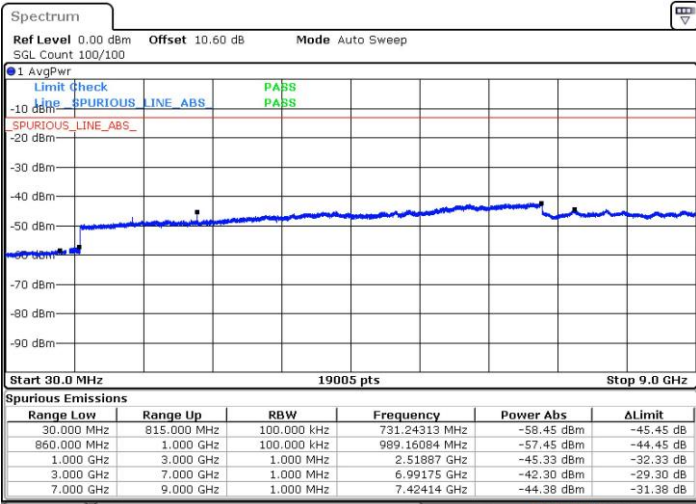


Date: 30.MAR.2018 18:09:32

Date: 30.MAR.2018 18:10:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.MAR.2018 18:18:34

Date: 30.MAR.2018 18:19:28



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0065	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0041	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

### Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.42	5.33	6.72	6.03	<b>PASS</b>
Middle CH	5.22	5.25	6.61	5.91	
Highest CH	5.33	4.78	6.64	5.65	



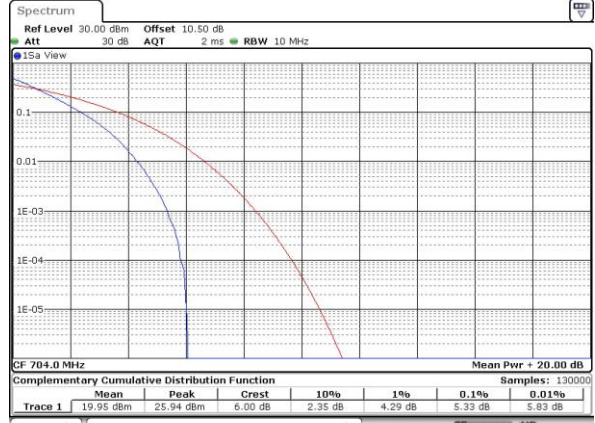
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



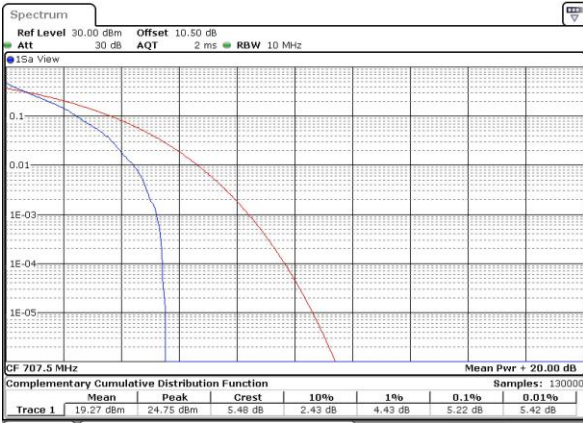
Date: 30 MAR 2018 22:08:30

Lowest Channel / Full RB



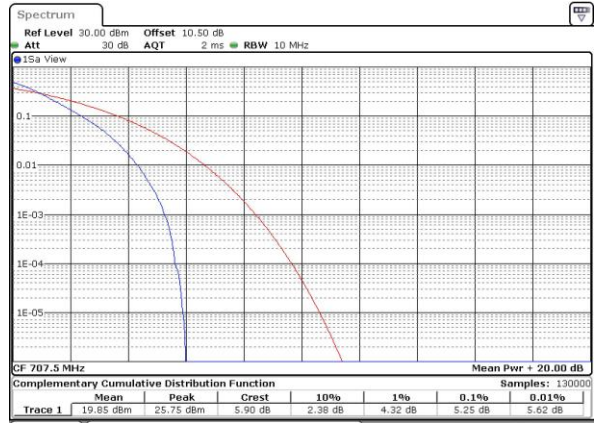
Date: 30 MAR 2018 22:08:19

Middle Channel / 1RB



Date: 30 MAR 2018 22:08:40

Middle Channel / Full RB



Date: 30 MAR 2018 22:08:50

Highest Channel / 1RB



Date: 30 MAR 2018 22:09:10

Highest Channel / Full RB



Date: 30 MAR 2018 22:09:00



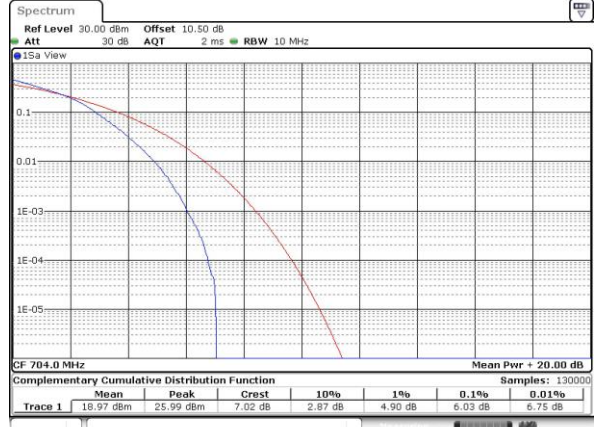
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



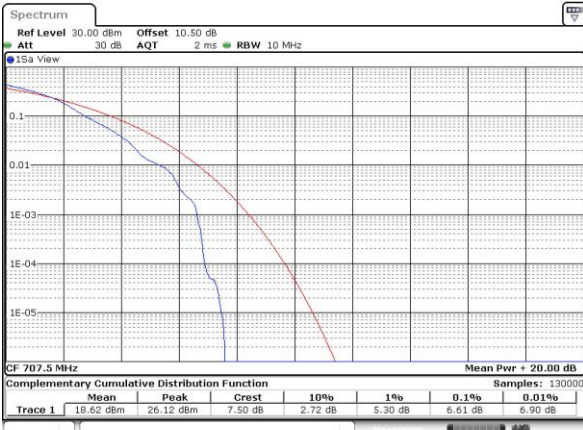
Date: 30 MAR 2018 22:07:29

Lowest Channel / Full RB



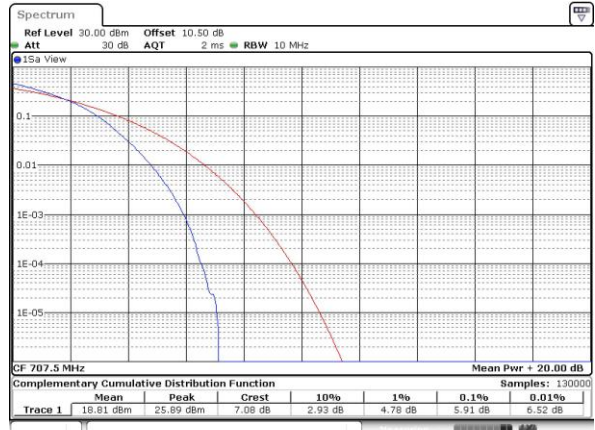
Date: 30 MAR 2018 22:07:18

Middle Channel / 1RB



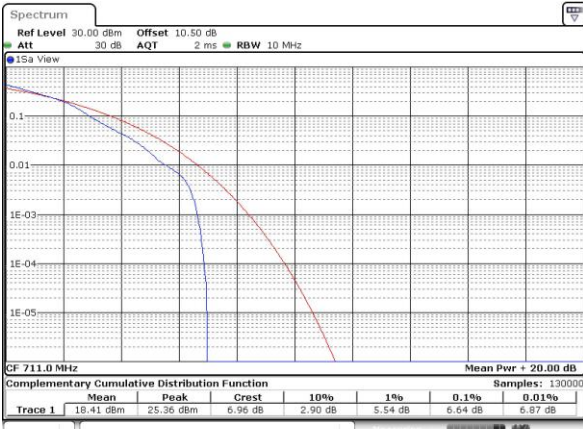
Date: 30 MAR 2018 22:07:39

Middle Channel / Full RB



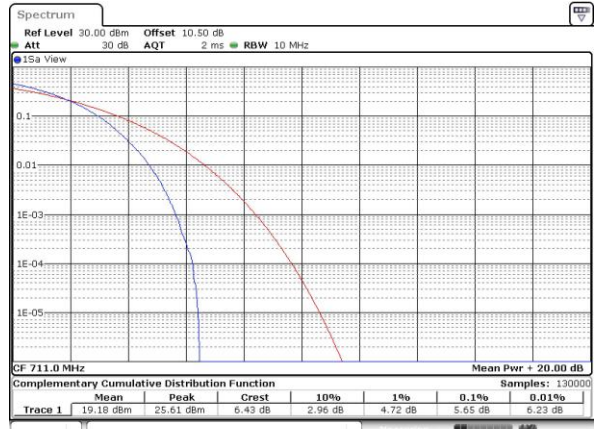
Date: 30 MAR 2018 22:07:50

Highest Channel / 1RB



Date: 30 MAR 2018 22:08:09

Highest Channel / Full RB



Date: 30 MAR 2018 22:08:00



**26dB Bandwidth**

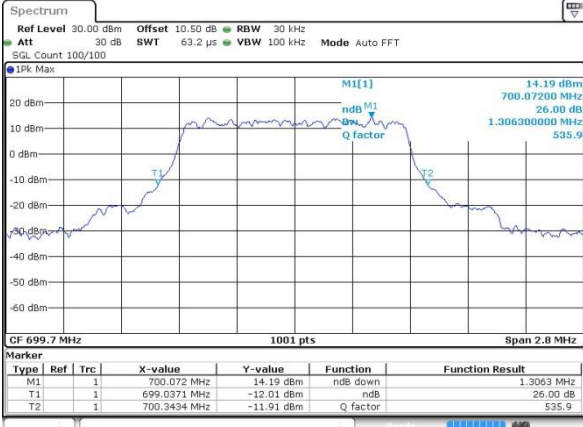
Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.306	1.31	2.97	3.01	4.93	4.86	10.09	10.11	-	-	-	-
Middle CH	1.334	1.33	3.05	3.00	4.98	5.02	10.09	10.09	-	-	-	-
Highest CH	1.326	1.24	3.09	3.06	4.86	4.99	9.89	10.11	-	-	-	-





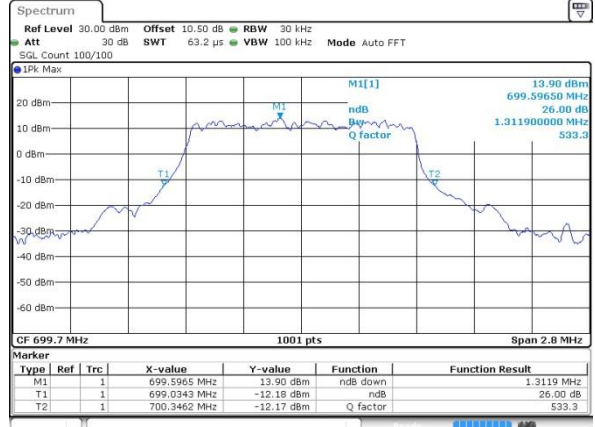
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



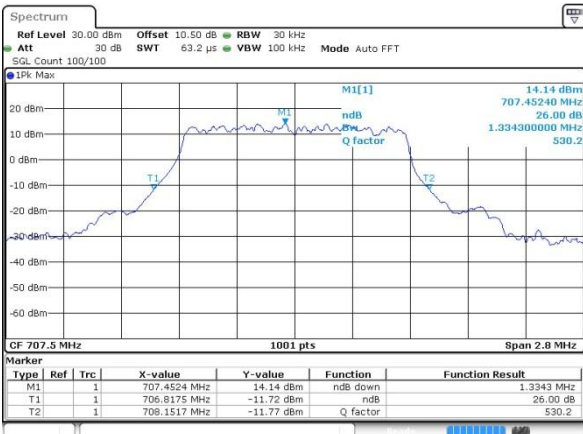
Date: 30 MAR 2018 21:50:21

Lowest Channel / 1.4MHz / 16QAM



Date: 30 MAR 2018 21:50:11

Middle Channel / 1.4MHz / QPSK



Date: 30 MAR 2018 21:57:12

Middle Channel / 1.4MHz / 16QAM



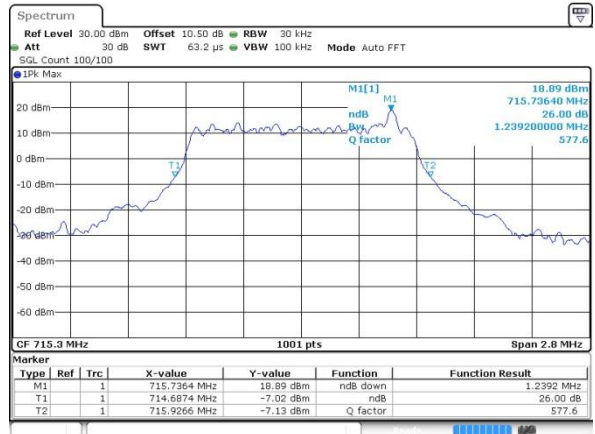
Date: 30 MAR 2018 21:57:23

Highest Channel / 1.4MHz / QPSK



Date: 30 MAR 2018 21:59:53

Highest Channel / 1.4MHz / 16QAM

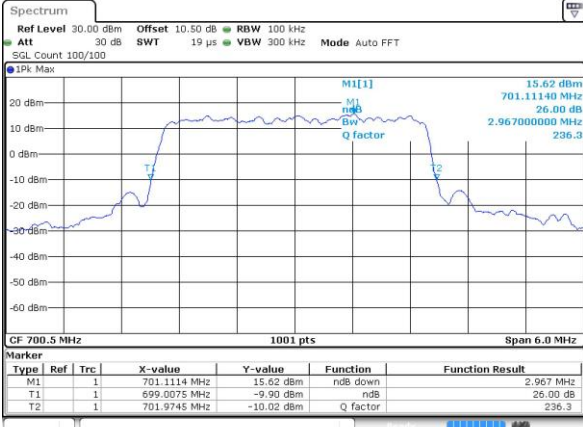


Date: 30 MAR 2018 21:59:42



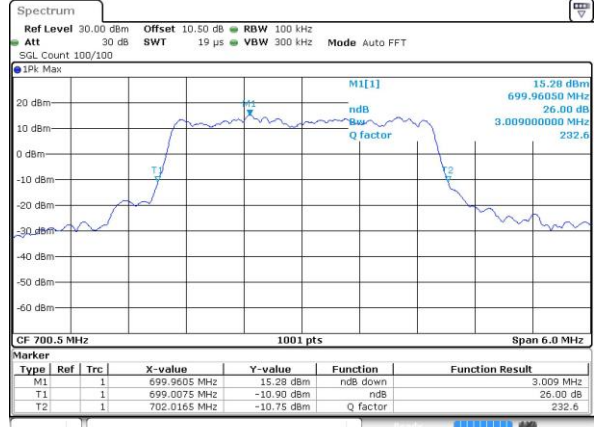
LTE Band 12

Lowest Channel / 3MHz / QPSK



Date: 30 MAR 2018 21:00:45

Lowest Channel / 3MHz / 16QAM



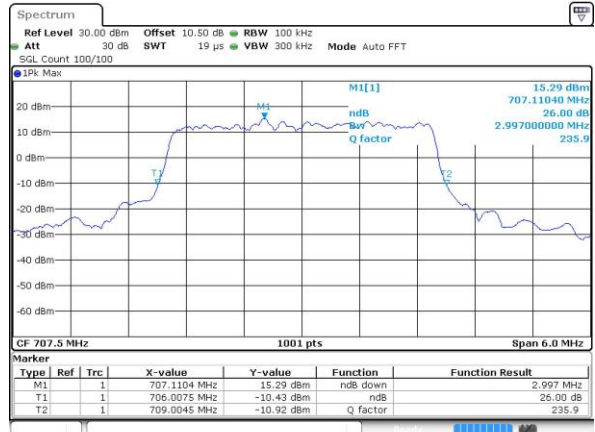
Date: 30 MAR 2018 21:00:35

Middle Channel / 3MHz / QPSK



Date: 30 MAR 2018 21:07:36

Middle Channel / 3MHz / 16QAM



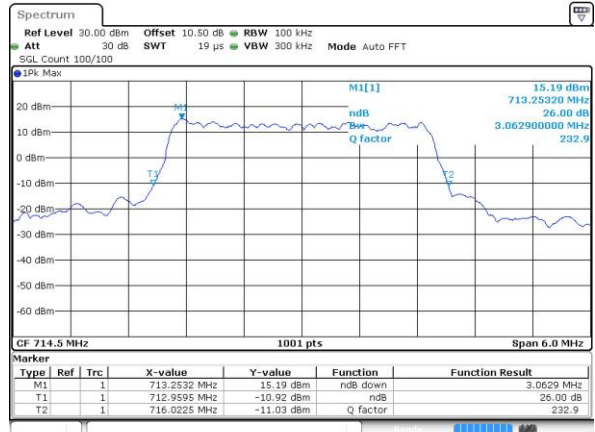
Date: 30 MAR 2018 21:07:46

Highest Channel / 3MHz / QPSK



Date: 30 MAR 2018 21:10:16

Highest Channel / 3MHz / 16QAM

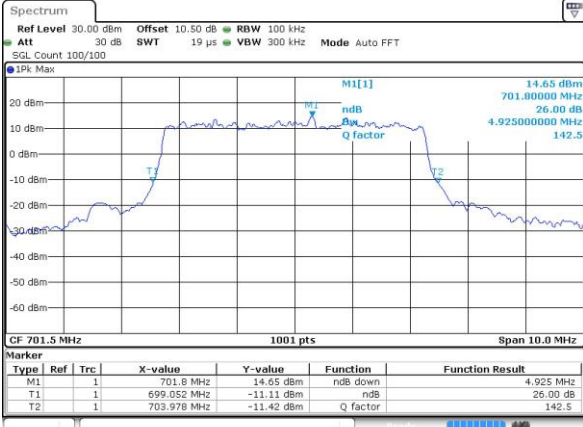


Date: 30 MAR 2018 21:10:06



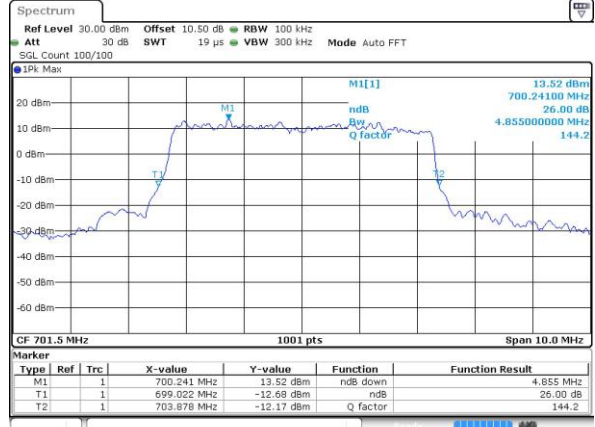
LTE Band 12

Lowest Channel / 5MHz / QPSK



Date: 30 MAR 2018 21:17:17

Lowest Channel / 5MHz / 16QAM



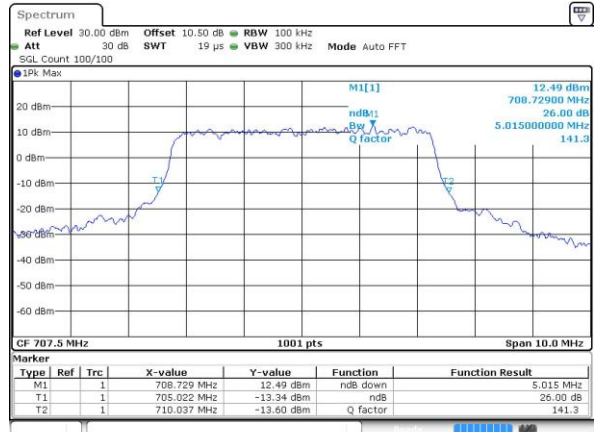
Date: 30 MAR 2018 21:17:07

Middle Channel / 5MHz / QPSK



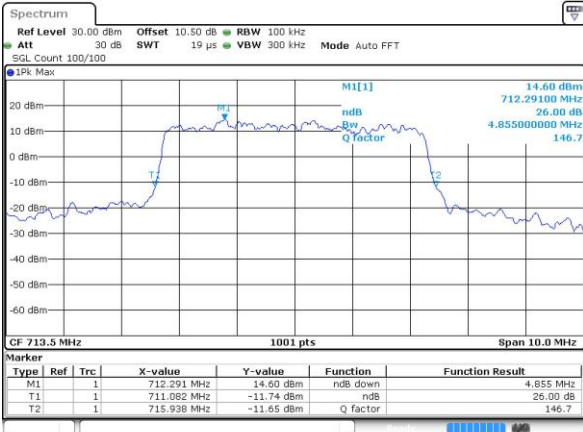
Date: 30 MAR 2018 21:24:08

Middle Channel / 5MHz / 16QAM



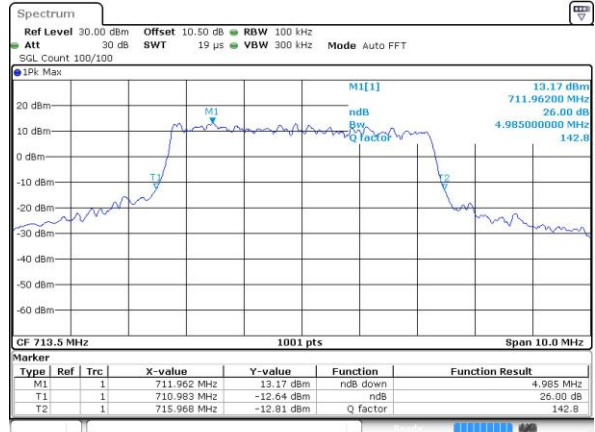
Date: 30 MAR 2018 21:24:18

Highest Channel / 5MHz / QPSK



Date: 30 MAR 2018 21:26:48

Highest Channel / 5MHz / 16QAM

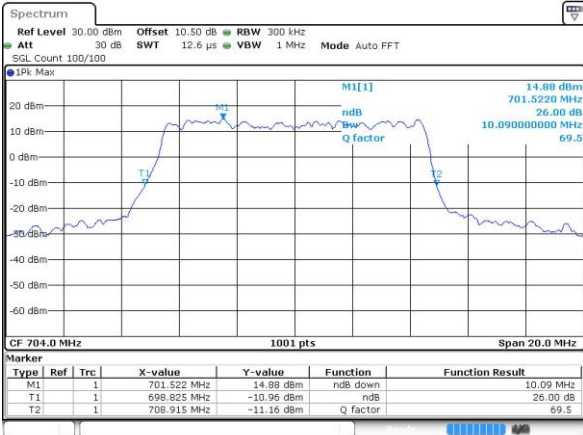


Date: 30 MAR 2018 21:26:37



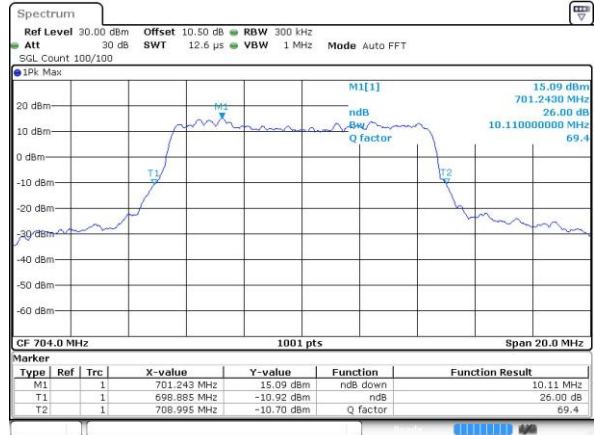
LTE Band 12

Lowest Channel / 10MHz / QPSK



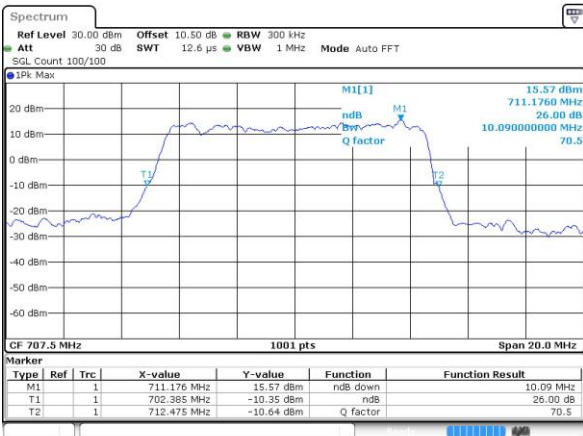
Date: 30 MAR 2018 21:33:48

Lowest Channel / 10MHz / 16QAM



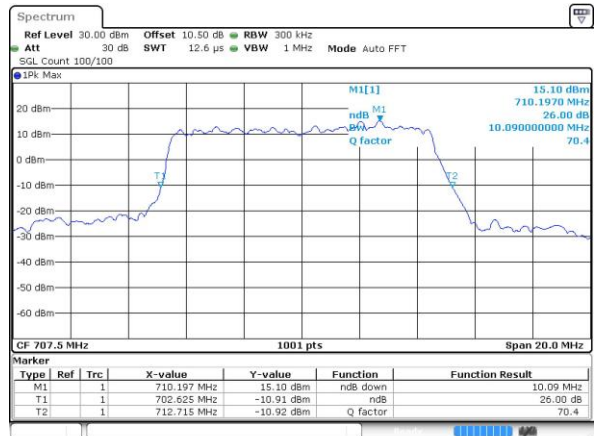
Date: 30 MAR 2018 21:33:38

Middle Channel / 10MHz / QPSK



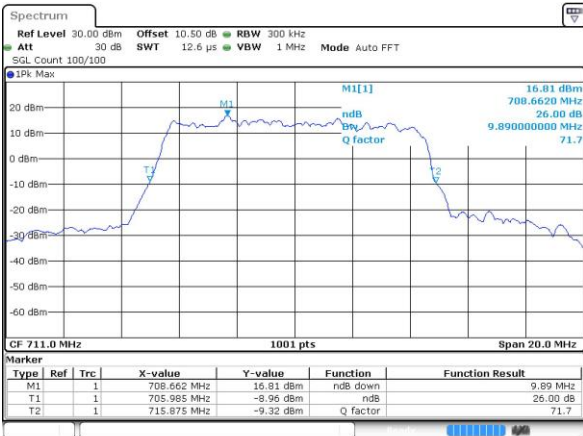
Date: 30 MAR 2018 21:40:39

Middle Channel / 10MHz / 16QAM



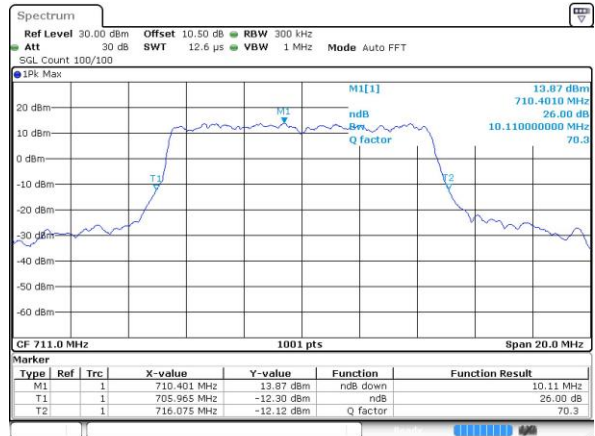
Date: 30 MAR 2018 21:40:50

Highest Channel / 10MHz / QPSK



Date: 30 MAR 2018 21:43:20

Highest Channel / 10MHz / 16QAM



Date: 30 MAR 2018 21:43:09