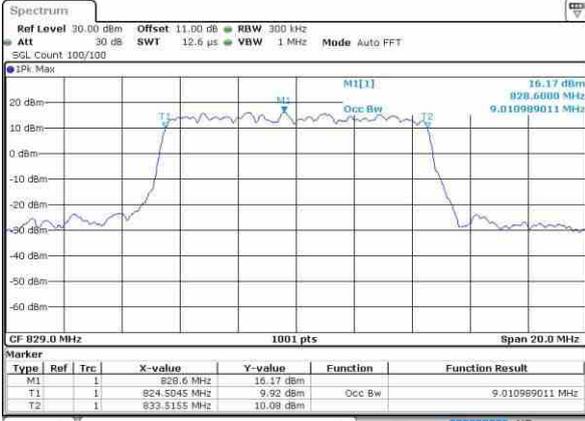




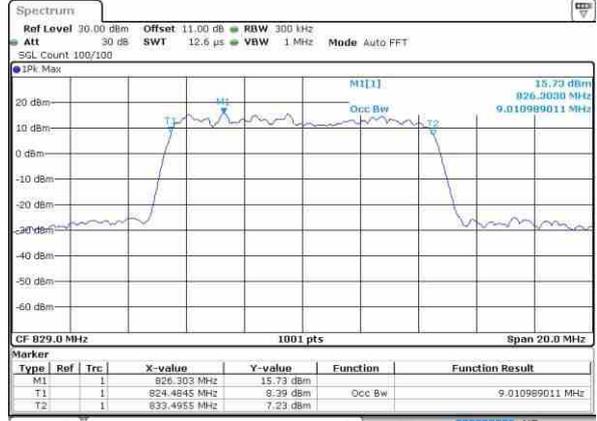
LTE Band 5

Lowest Channel / 10MHz / QPSK



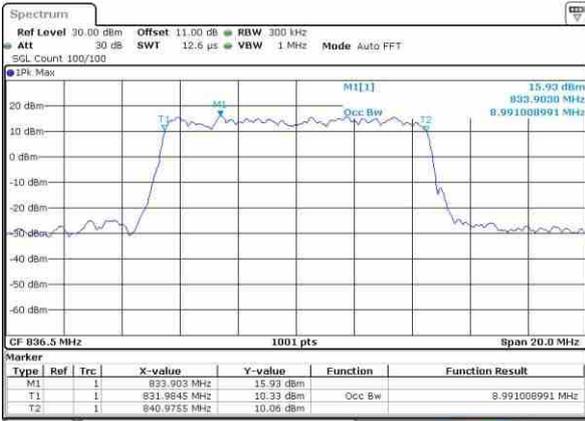
Date: 12.MAR.2016 19:18:29

Lowest Channel / 10MHz / 16QAM



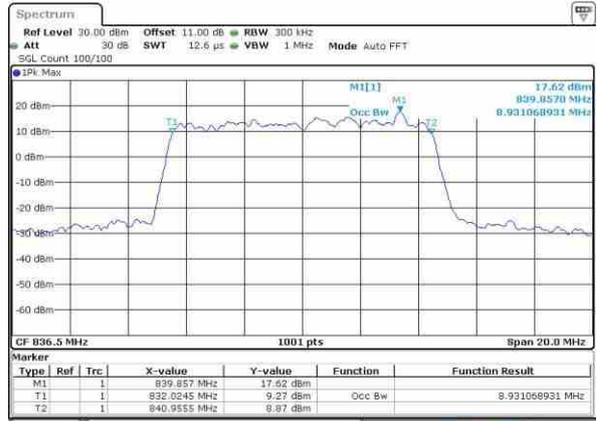
Date: 12.MAR.2016 19:18:39

Middle Channel / 10MHz / QPSK



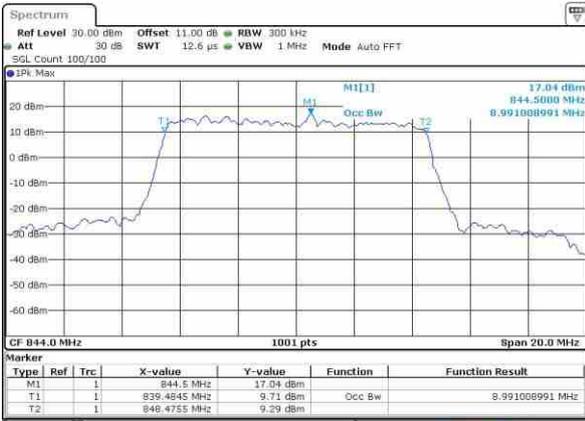
Date: 12.MAR.2016 19:28:08

Middle Channel / 10MHz / 16QAM



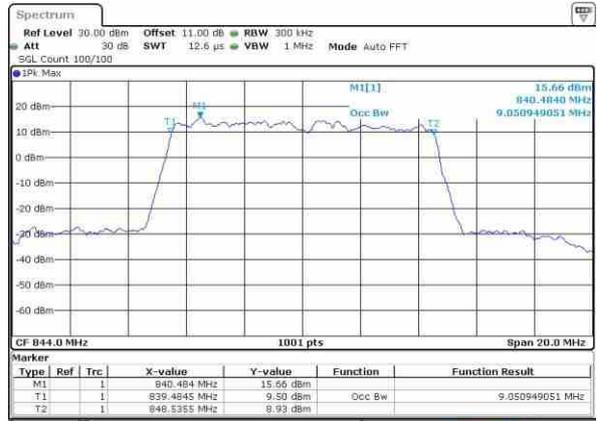
Date: 12.MAR.2016 19:25:19

Highest Channel / 10MHz / QPSK



Date: 12.MAR.2016 19:31:39

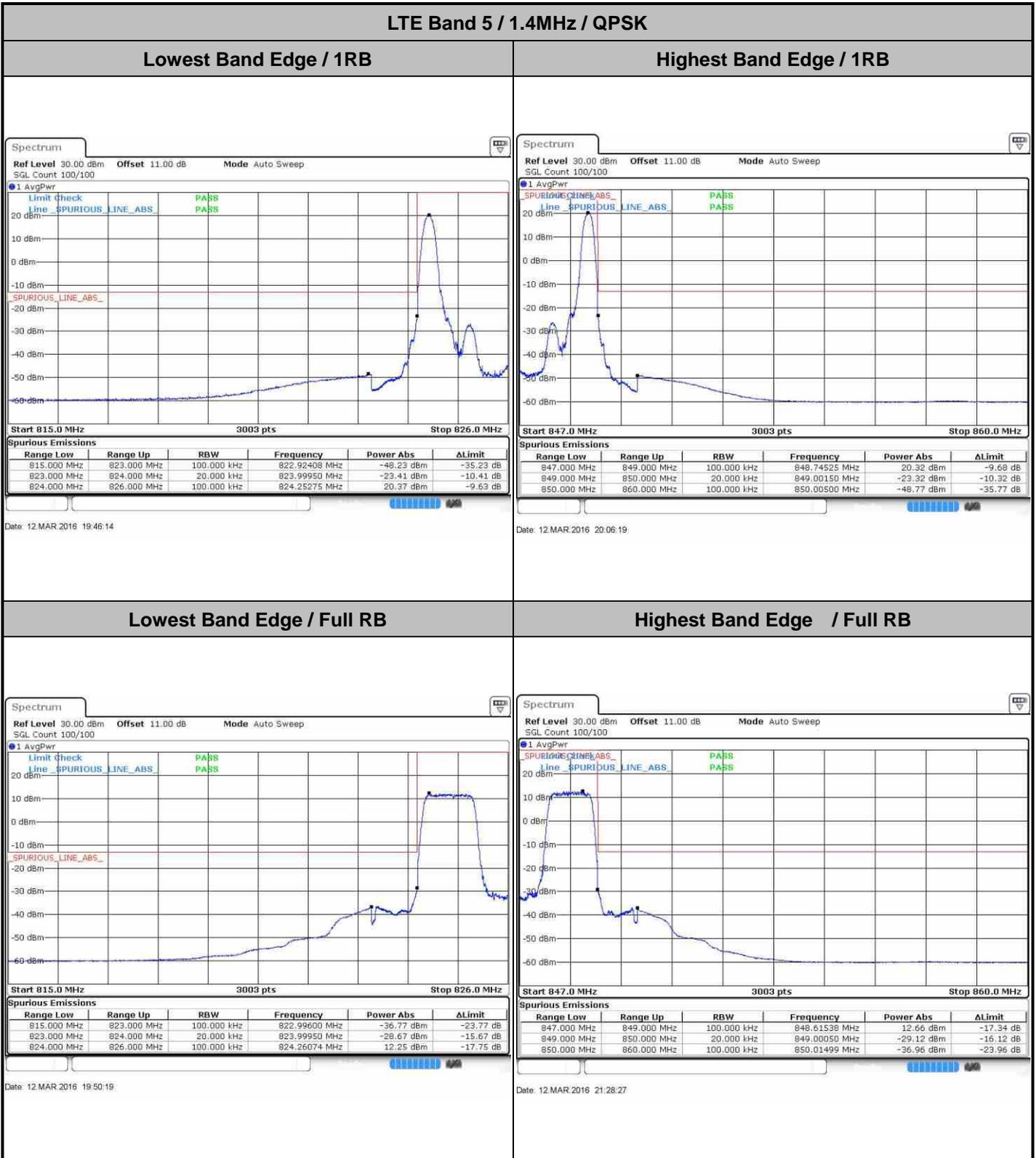
Highest Channel / 10MHz / 16QAM



Date: 12.MAR.2016 19:31:49



# Conducted Band Edge





LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 12.MAR.2016 19:46:17

Highest Band Edge / 1 RB



Date: 12.MAR.2016 20:08:22

Lowest Band Edge / Full RB



Date: 12.MAR.2016 19:52:21

Highest Band Edge / Full RB

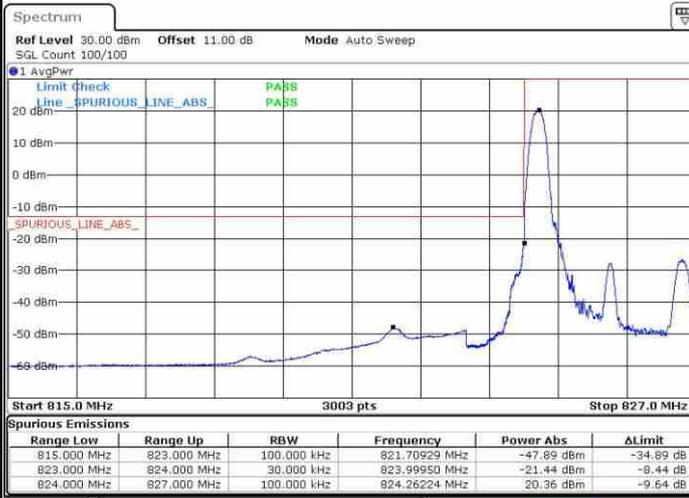


Date: 12.MAR.2016 20:04:17



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 12.MAR.2016 18.33.20

Highest Band Edge / 1 RB



Date: 12.MAR.2016 18.46.31

Lowest Band Edge / Full RB



Date: 12.MAR.2016 18.37.24

Highest Band Edge / Full RB

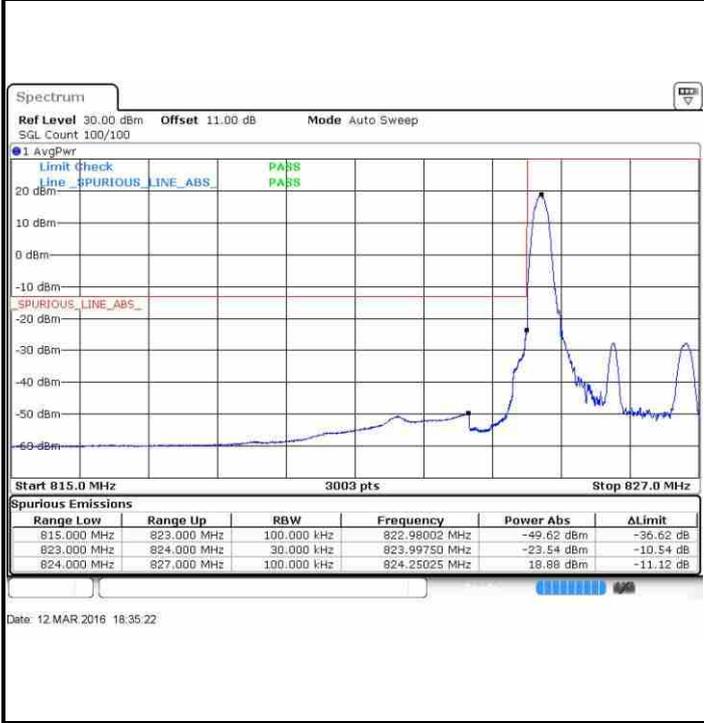


Date: 12.MAR.2016 18.50.36

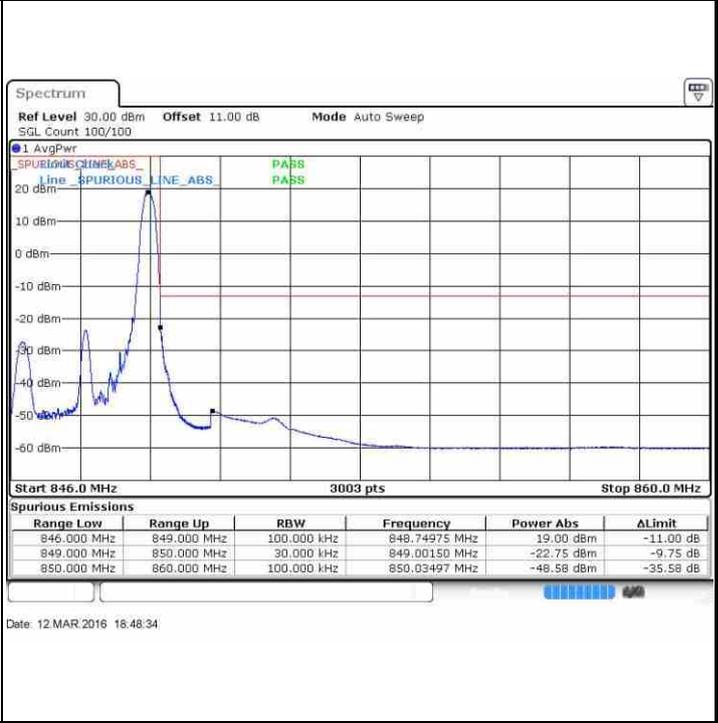


**LTE Band 5 / 3MHz / 16QAM**

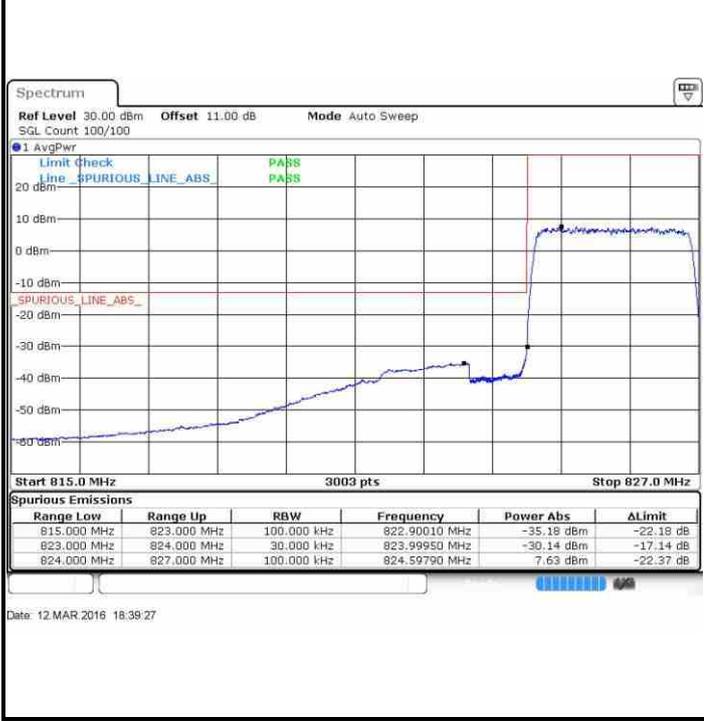
**Lowest Band Edge / 1 RB**



**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



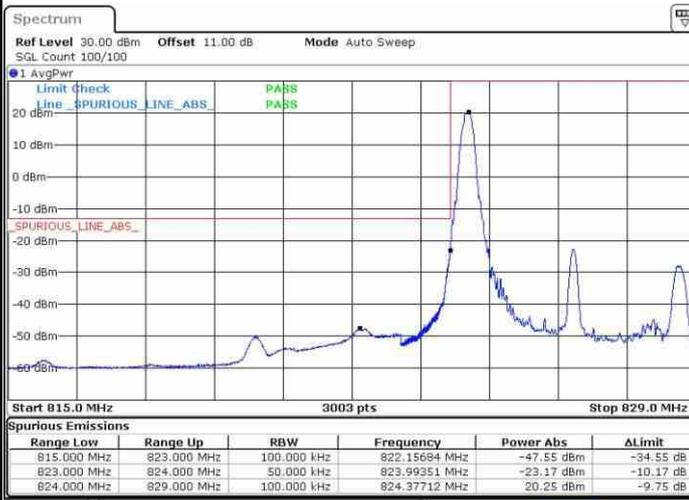
**Highest Band Edge / Full RB**





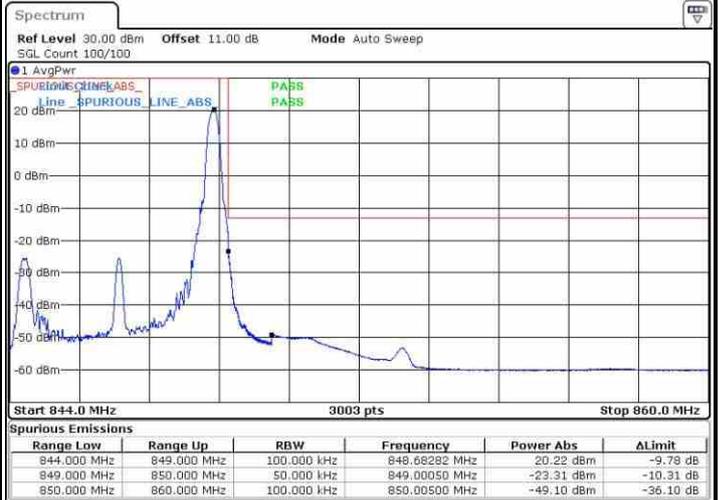
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 12.MAR.2016 18:57:12

Highest Band Edge / 1 RB



Date: 12.MAR.2016 19:10:23

Lowest Band Edge / Full RB



Date: 12.MAR.2016 19:01:17

Highest Band Edge / Full RB

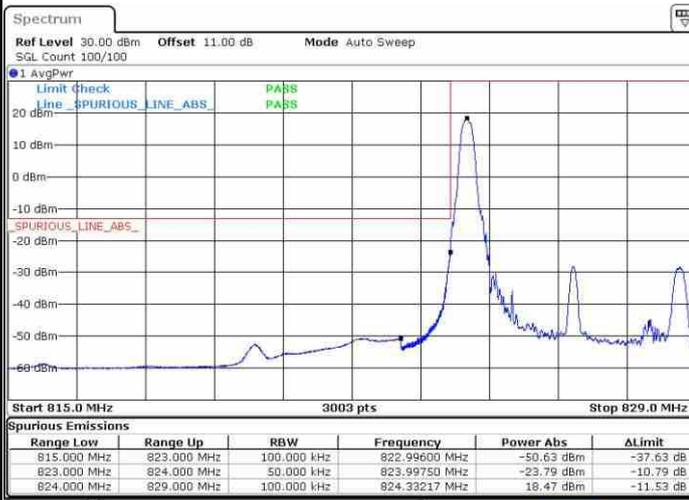


Date: 12.MAR.2016 19:14:27



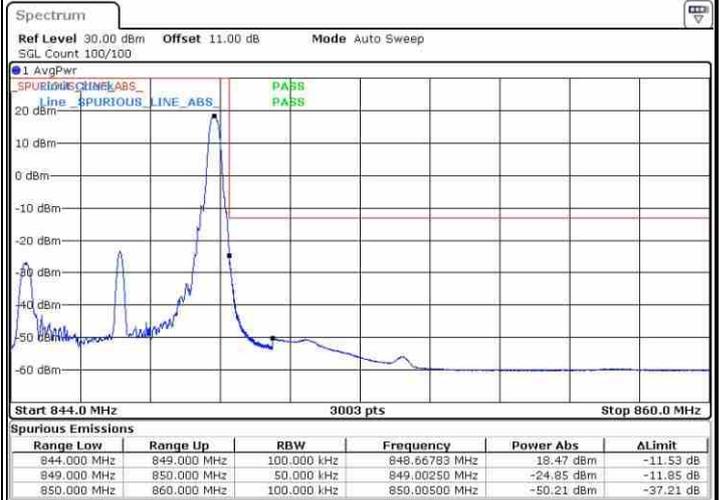
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 12.MAR.2016 18:59:14

Highest Band Edge / 1 RB



Date: 12.MAR.2016 19:12:25

Lowest Band Edge / Full RB



Date: 12.MAR.2016 19:03:19

Highest Band Edge / Full RB

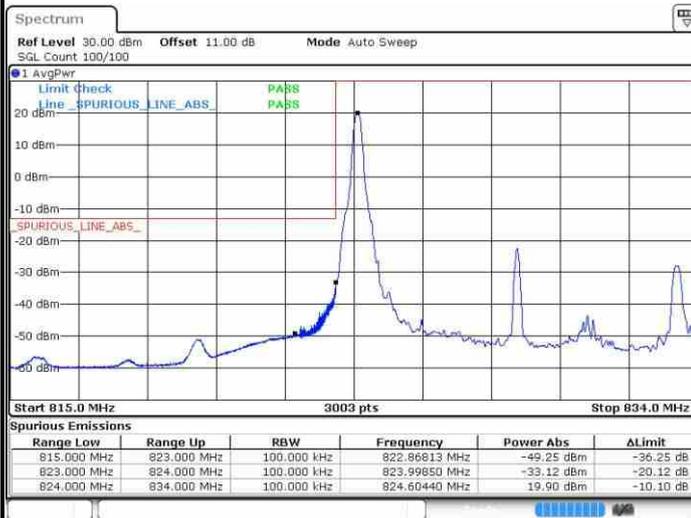


Date: 12.MAR.2016 19:16:29



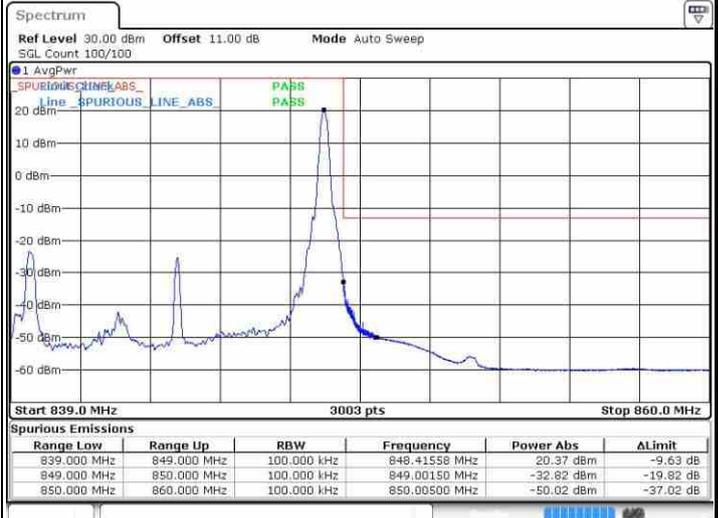
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



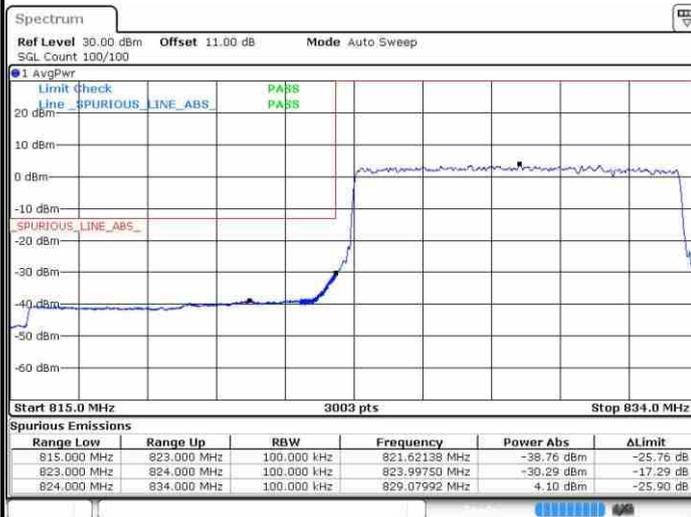
Date: 12.MAR.2016 19:21:02

Highest Band Edge / 1 RB



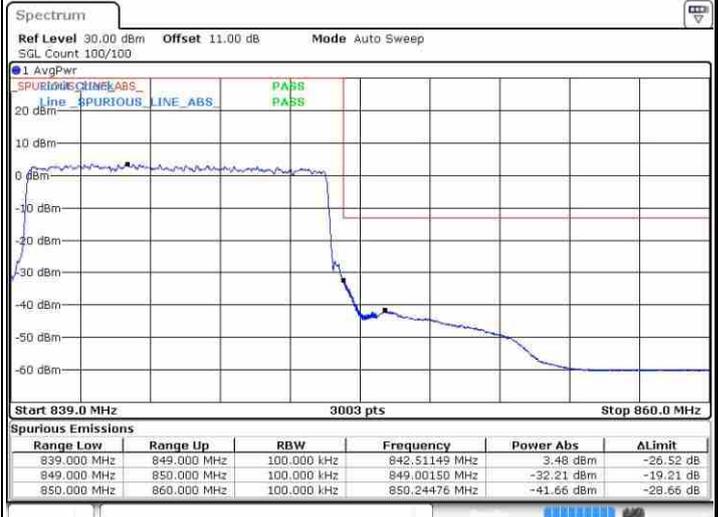
Date: 12.MAR.2016 19:34:12

Lowest Band Edge / Full RB



Date: 12.MAR.2016 19:25:06

Highest Band Edge / Full RB

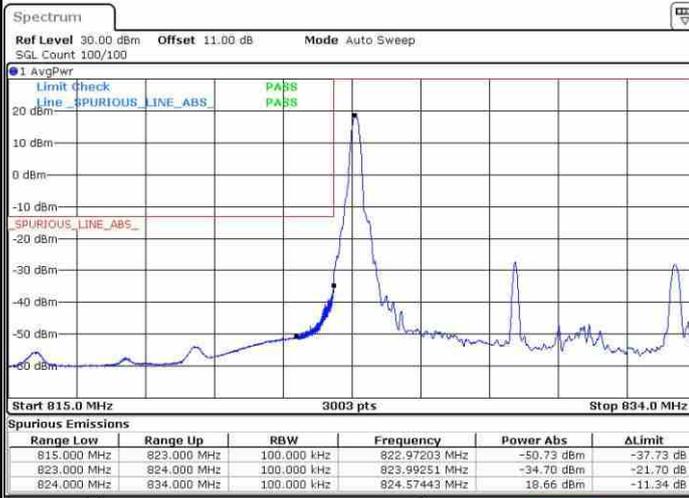


Date: 12.MAR.2016 19:38:16



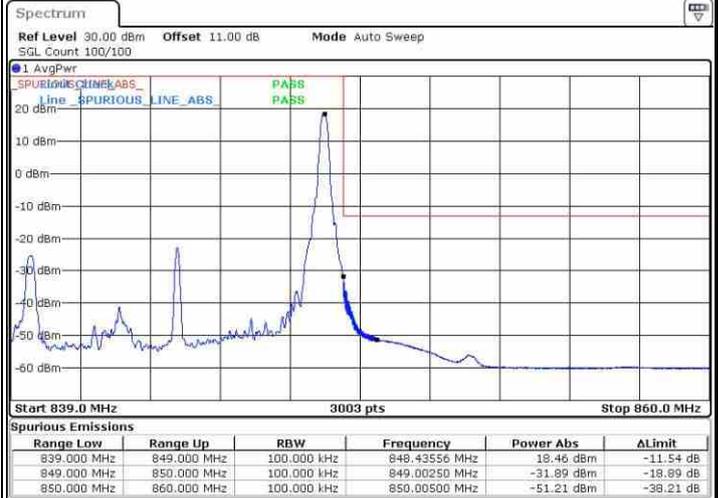
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



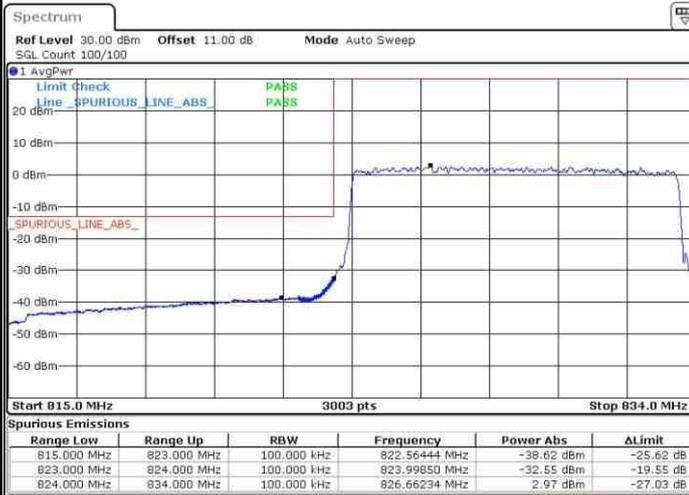
Date: 12.MAR.2016 19:23:04

Highest Band Edge / 1 RB



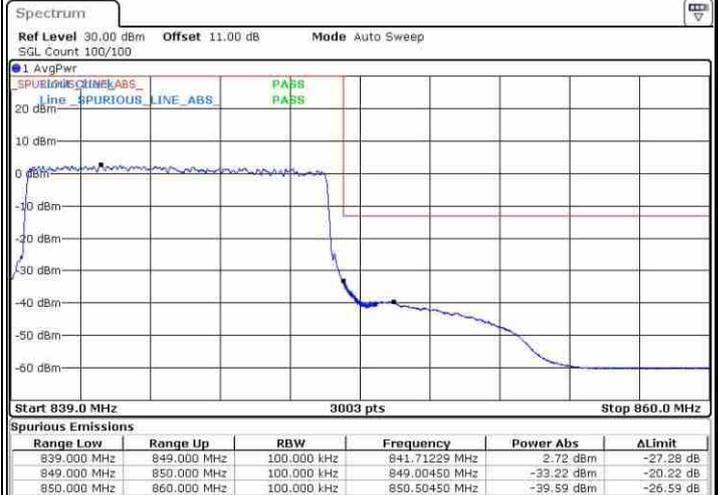
Date: 12.MAR.2016 19:36:14

Lowest Band Edge / Full RB



Date: 12.MAR.2016 19:27:09

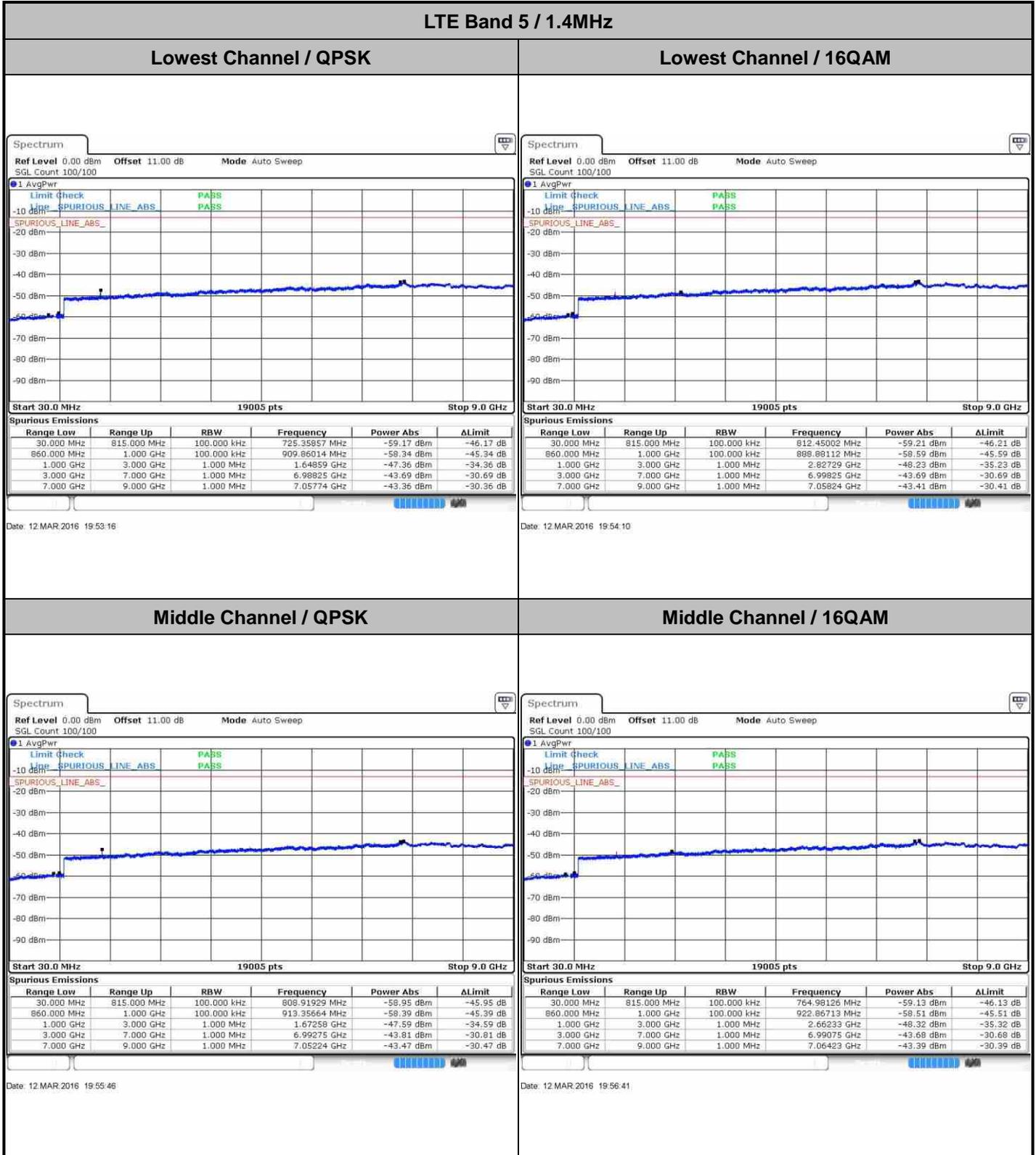
Highest Band Edge / Full RB



Date: 12.MAR.2016 19:40:18



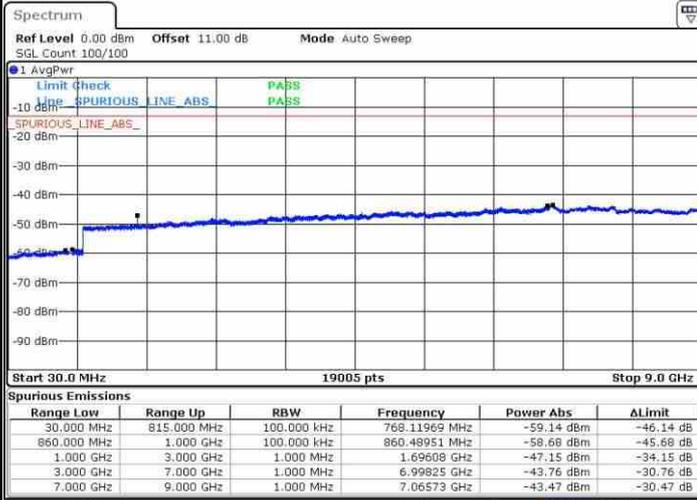
# Conducted Spurious Emission





LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 12 MAR 2016 20:08:17

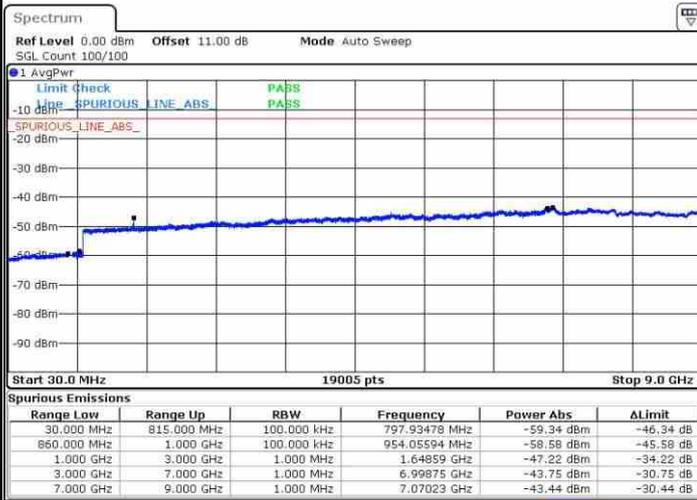
Highest Channel / 16QAM



Date: 12 MAR 2016 20:10:11

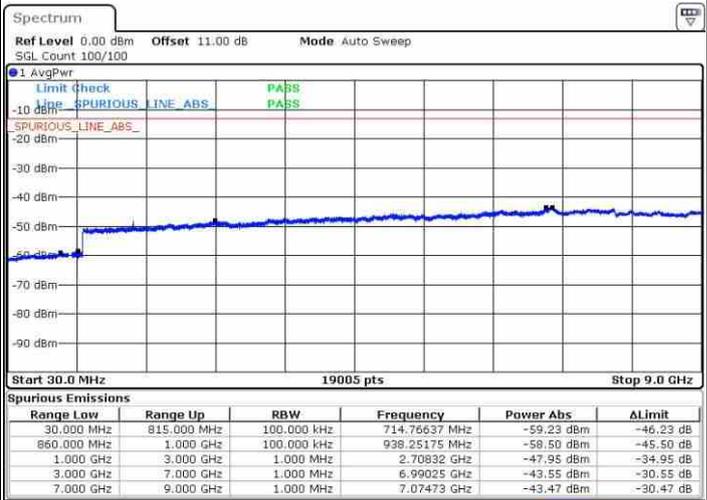
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 12 MAR 2016 18:40:22

Lowest Channel / 16QAM



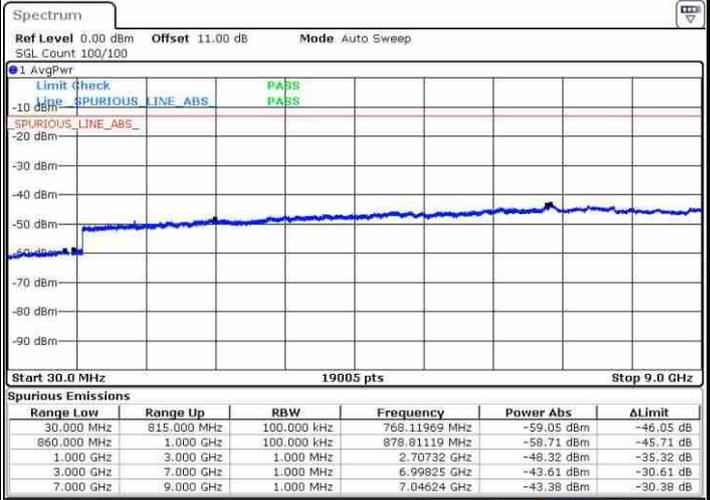
Date: 12 MAR 2016 18:41:16



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

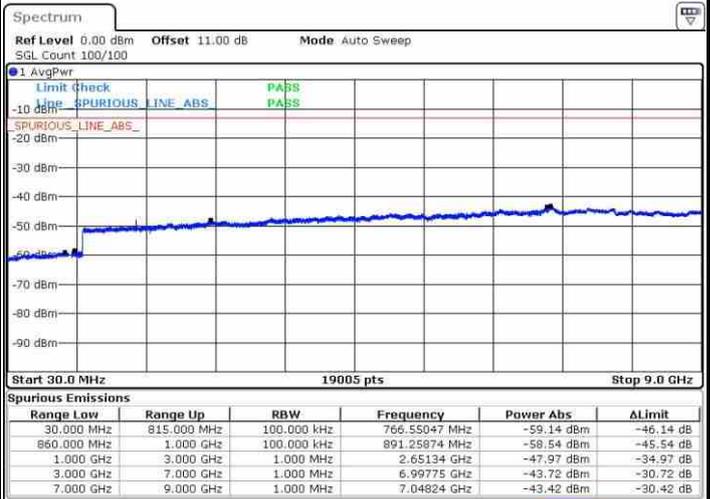


Date: 12 MAR 2016 18:42:53

Date: 12 MAR 2016 18:43:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 MAR 2016 18:53:33

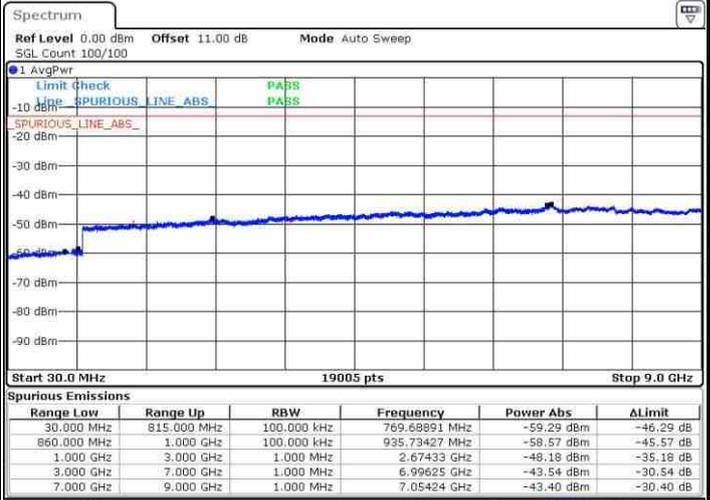
Date: 12 MAR 2016 18:54:28



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

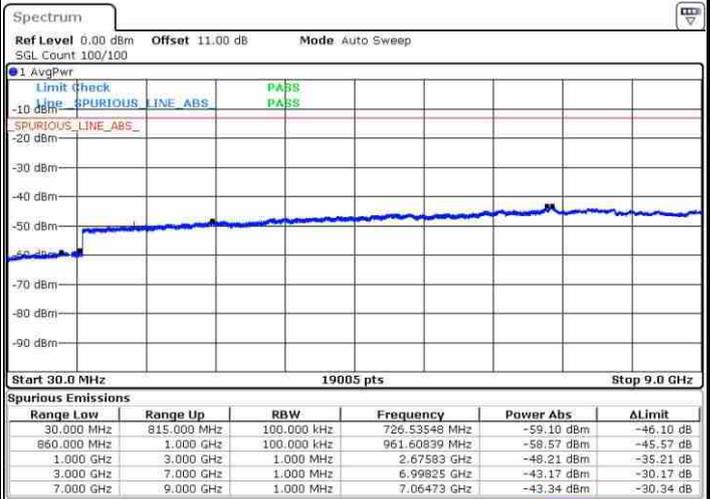


Date: 12 MAR 2016 19:04:14

Date: 12 MAR 2016 19:05:08

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 12 MAR 2016 19:06:45

Date: 12 MAR 2016 19:07:39



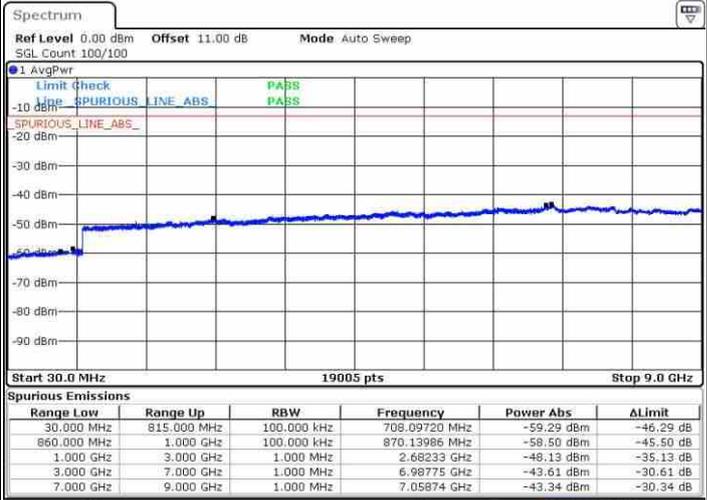
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 12 MAR 2016 19:17:24

Highest Channel / 16QAM



Date: 12 MAR 2016 19:18:18

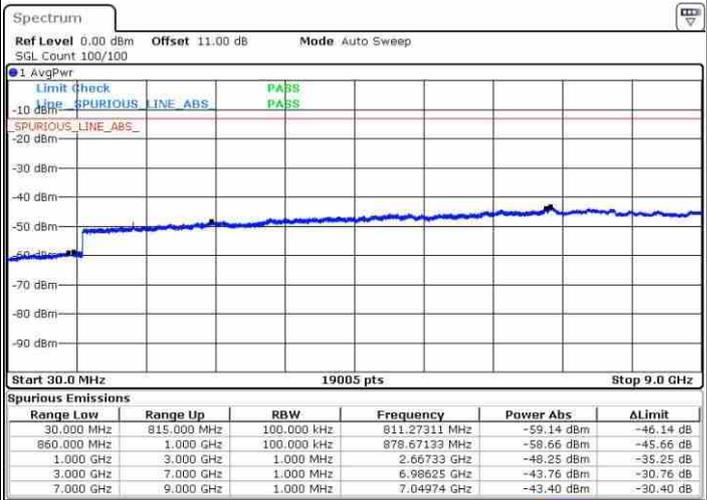
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 12 MAR 2016 19:28:03

Lowest Channel / 16QAM



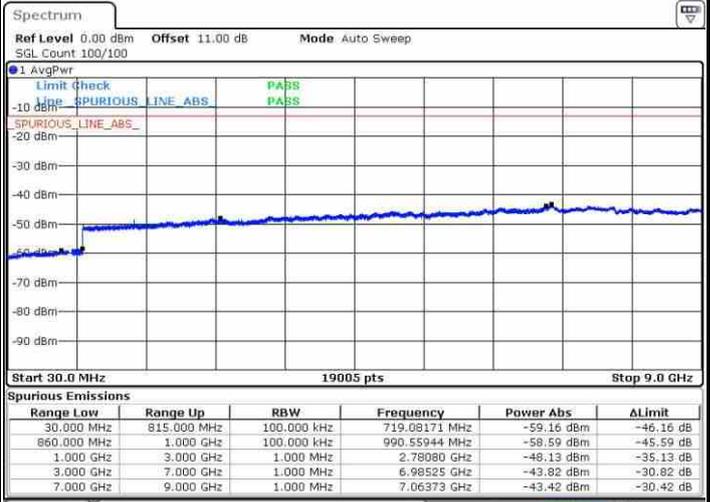
Date: 12 MAR 2016 19:28:58



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

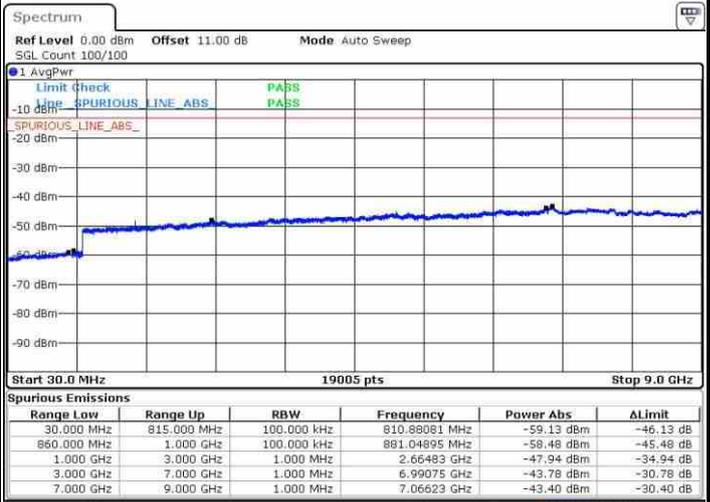


Date: 12 MAR 2016 19:30:34

Date: 12 MAR 2016 19:31:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 MAR 2016 19:41:13

Date: 12 MAR 2016 19:42:08



**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	0.0080	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0074	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0078	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0056	

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7

### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.8	4.75	4.72	5.83	<b>PASS</b>
Middle CH	3.86	4.81	4.84	5.86	
Highest CH	4.23	4.67	5.3	5.8	



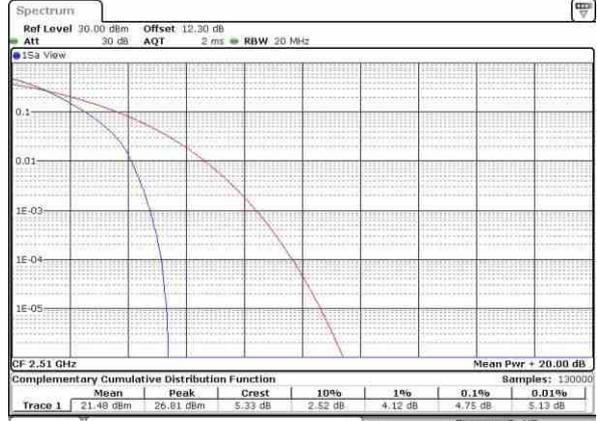
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 14.MAR.2016 18:04:47

Lowest Channel / Full RB



Date: 14.MAR.2016 18:04:59

Middle Channel / 1RB



Date: 14.MAR.2016 18:05:37

Middle Channel / Full RB



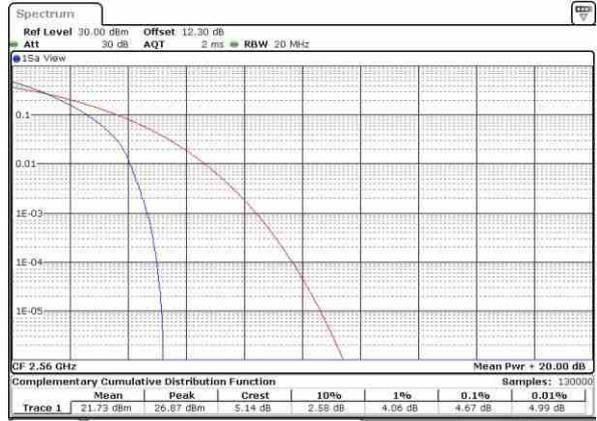
Date: 14.MAR.2016 18:05:52

Highest Channel / 1RB



Date: 14.MAR.2016 18:07:30

Highest Channel / Full RB

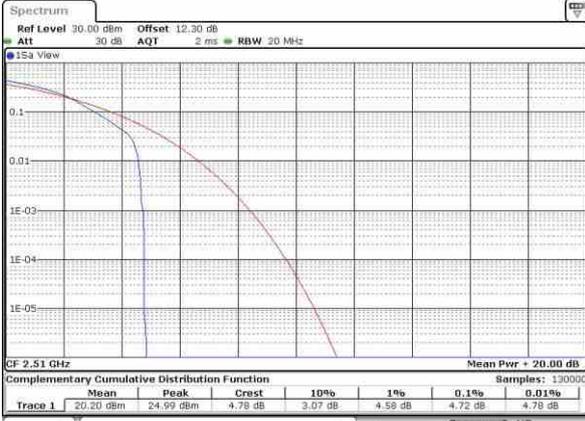


Date: 14.MAR.2016 18:19:41



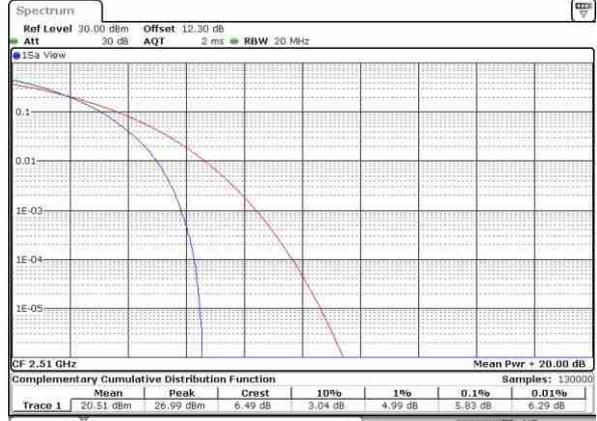
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



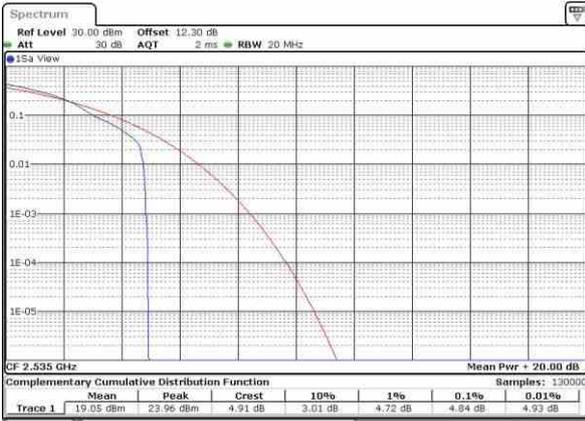
Date: 14.MAR.2016 18:02:40

Lowest Channel / Full RB



Date: 14.MAR.2016 18:02:54

Middle Channel / 1RB



Date: 14.MAR.2016 18:03:07

Middle Channel / Full RB



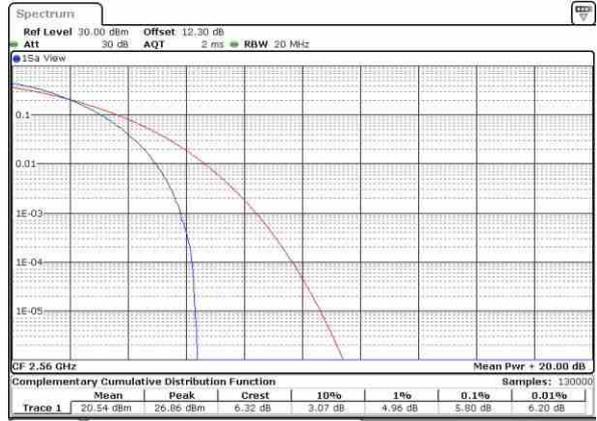
Date: 14.MAR.2016 18:03:18

Highest Channel / 1RB



Date: 14.MAR.2016 18:03:28

Highest Channel / Full RB



Date: 14.MAR.2016 18:03:55



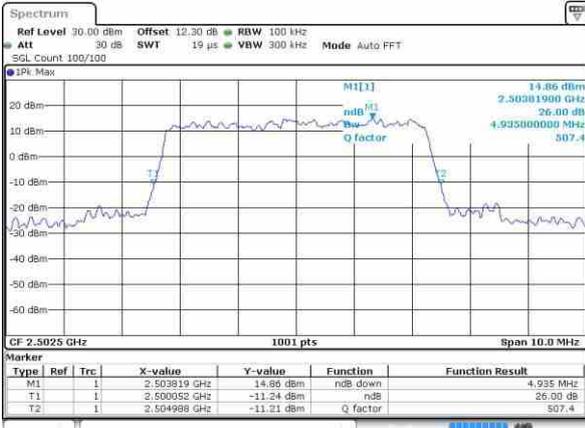
**26dB Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.94	4.85	9.77	9.79	14.24	14.24	20.1	20.1
Middle CH	-	-	-	-	4.93	4.88	9.83	9.99	14.3	14.81	20.3	20.26
Highest CH	-	-	-	-	4.86	4.87	9.79	9.81	14.45	14.33	20.1	20.02



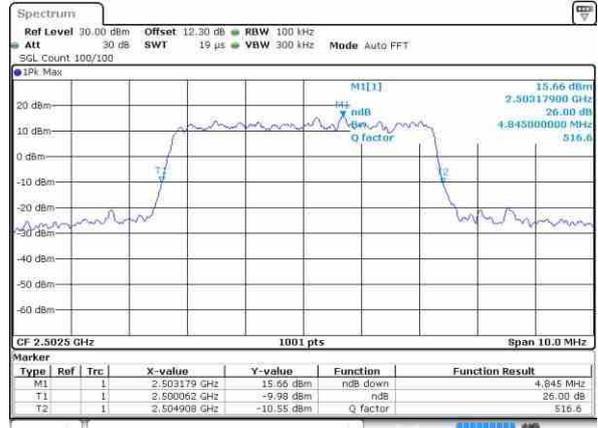
LTE Band 7

Lowest Channel / 5MHz / QPSK



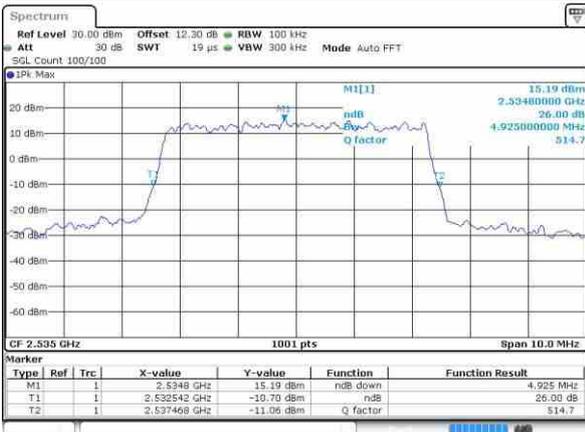
Date: 14.MAR.2016 16:01:12

Lowest Channel / 5MHz / 16QAM



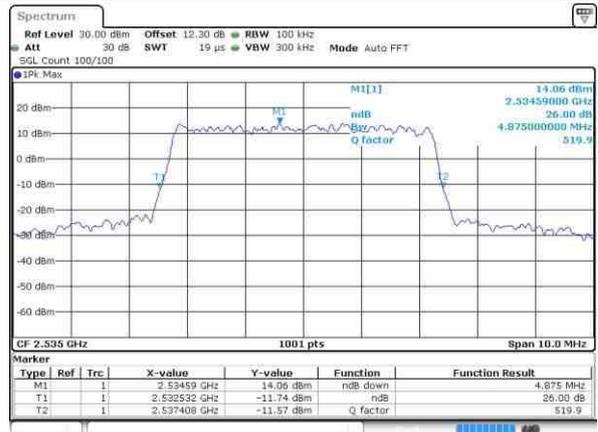
Date: 14.MAR.2016 16:01:22

Middle Channel / 5MHz / QPSK



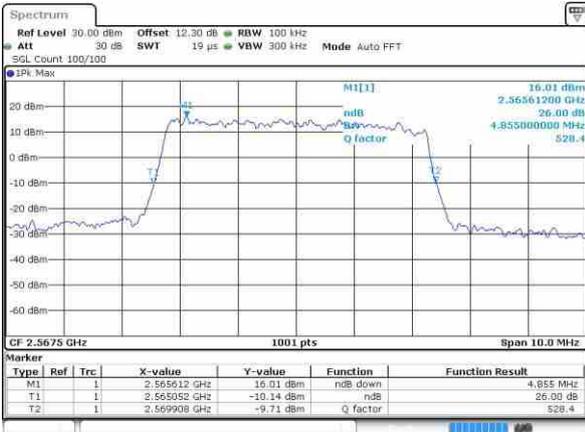
Date: 14.MAR.2016 16:08:21

Middle Channel / 5MHz / 16QAM



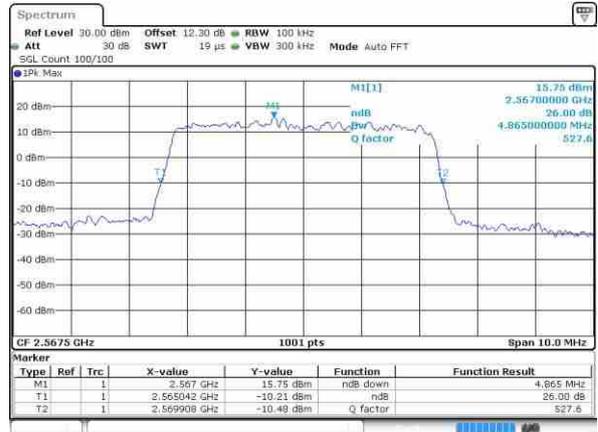
Date: 14.MAR.2016 16:08:32

Highest Channel / 5MHz / QPSK



Date: 14.MAR.2016 16:10:51

Highest Channel / 5MHz / 16QAM

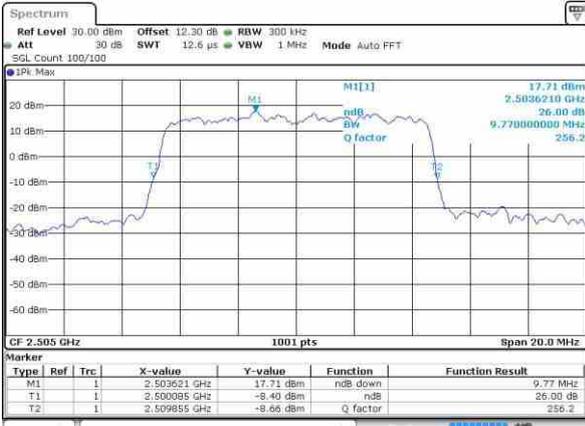


Date: 14.MAR.2016 16:11:02



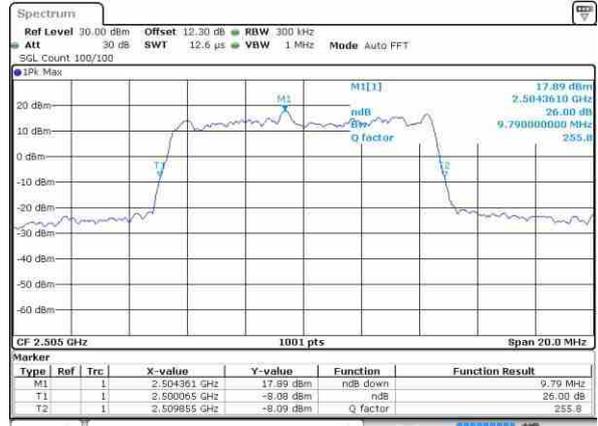
LTE Band 7

Lowest Channel / 10MHz / QPSK



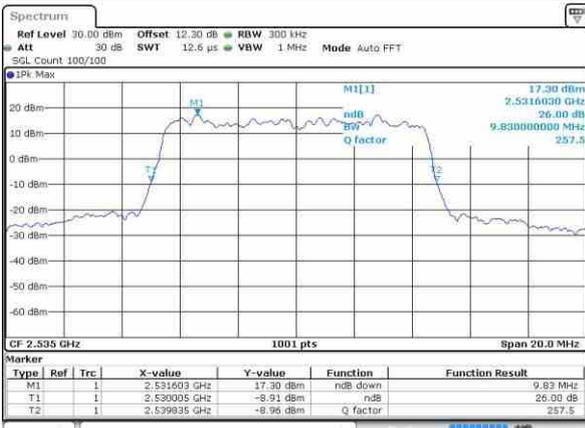
Date: 14 MAR 2016 16:18:01

Lowest Channel / 10MHz / 16QAM



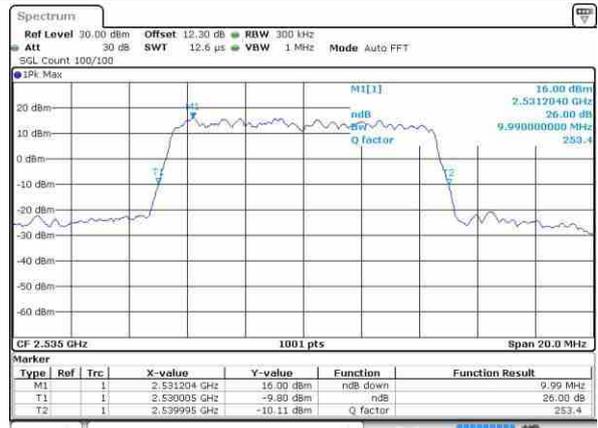
Date: 14 MAR 2016 16:18:12

Middle Channel / 10MHz / QPSK



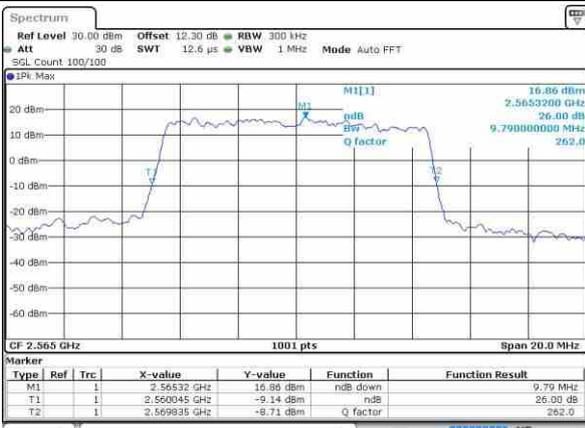
Date: 14 MAR 2016 16:25:11

Middle Channel / 10MHz / 16QAM



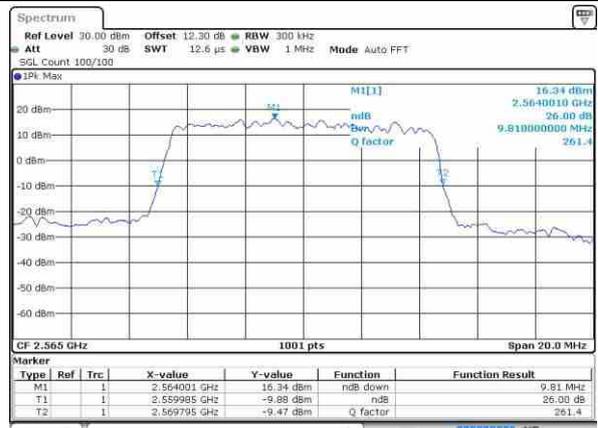
Date: 14 MAR 2016 16:25:22

Highest Channel / 10MHz / QPSK



Date: 14 MAR 2016 16:27:41

Highest Channel / 10MHz / 16QAM

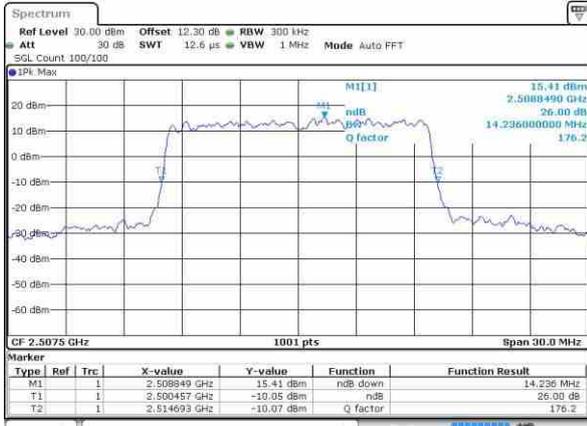


Date: 14 MAR 2016 16:27:52

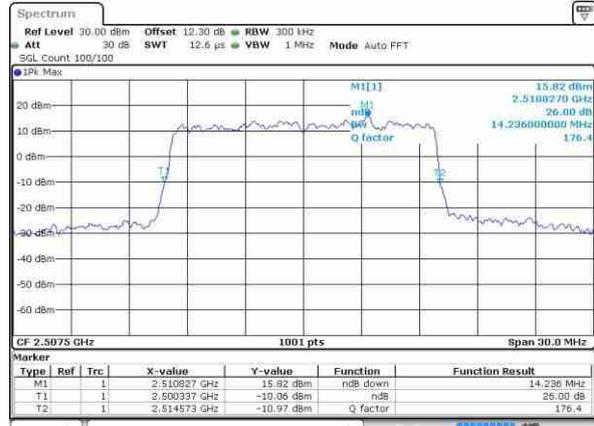


LTE Band 7

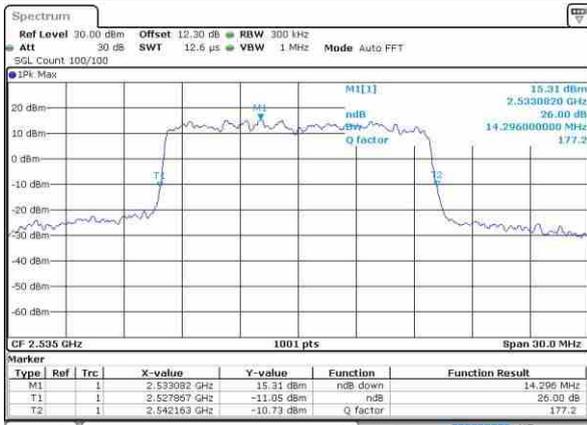
Lowest Channel / 15MHz / QPSK



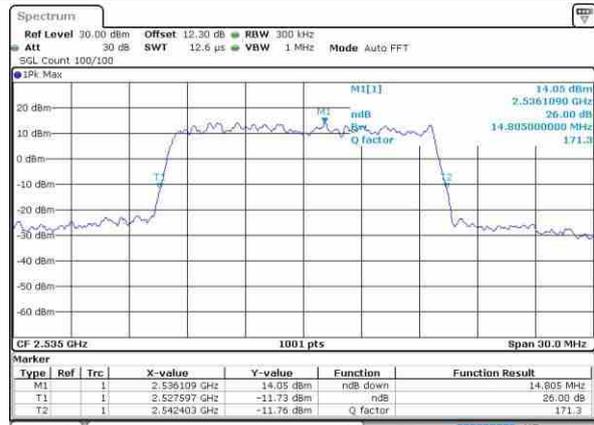
Lowest Channel / 15MHz / 16QAM



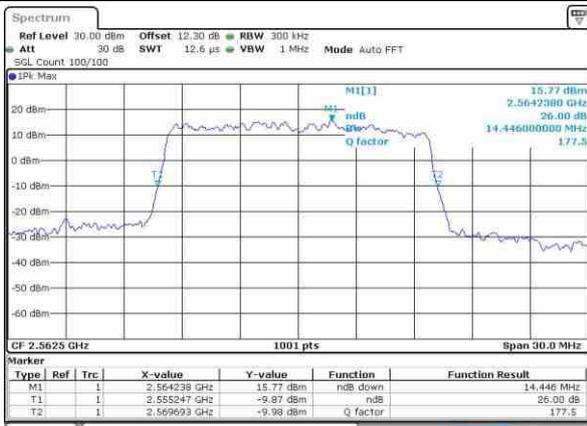
Middle Channel / 15MHz / QPSK



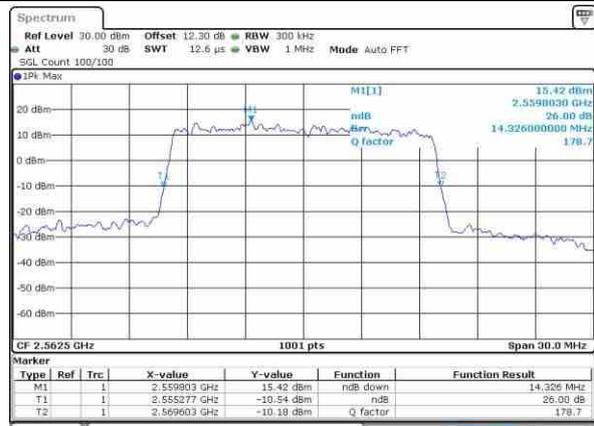
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



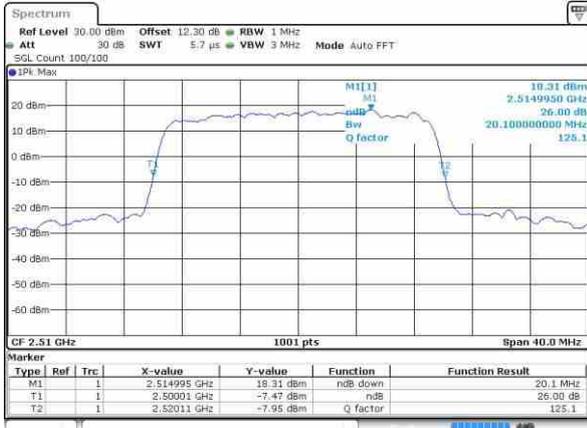
Highest Channel / 15MHz / 16QAM





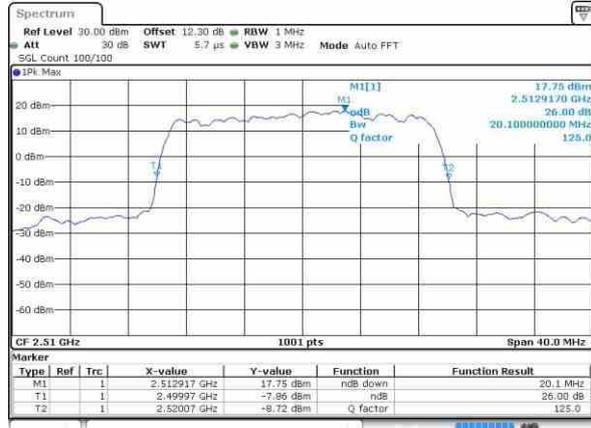
LTE Band 7

Lowest Channel / 20MHz / QPSK



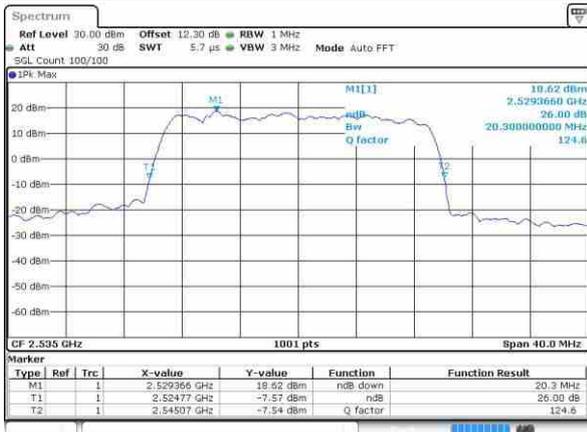
Date: 14 MAR 2016 17:24:54

Lowest Channel / 20MHz / 16QAM



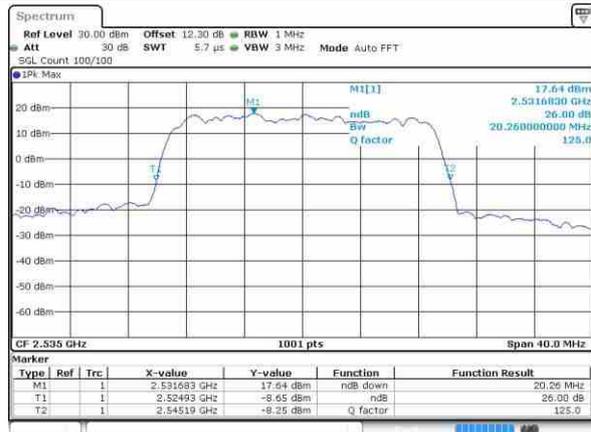
Date: 14 MAR 2016 17:25:04

Middle Channel / 20MHz / QPSK



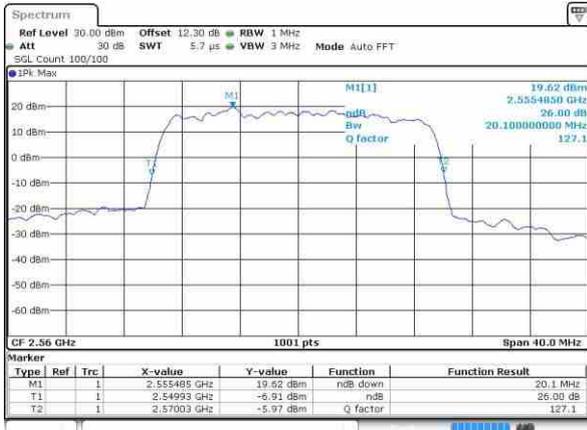
Date: 14 MAR 2016 17:32:02

Middle Channel / 20MHz / 16QAM



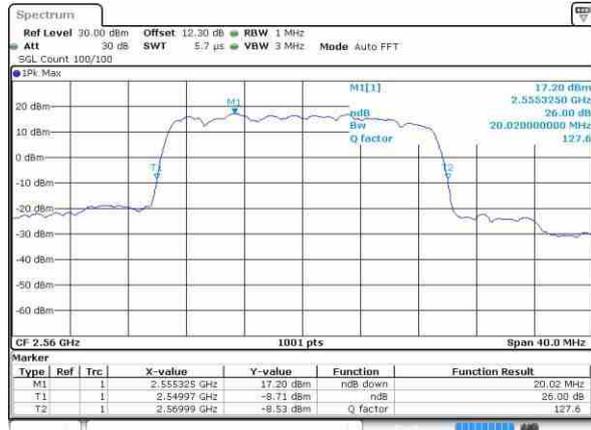
Date: 14 MAR 2016 17:32:13

Highest Channel / 20MHz / QPSK



Date: 14 MAR 2016 17:34:31

Highest Channel / 20MHz / 16QAM



Date: 14 MAR 2016 17:34:42



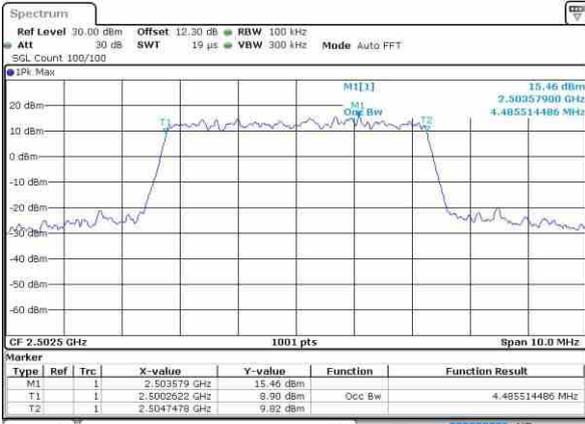
### Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(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	-	-	-	-	4.49	4.48	8.97	8.99	13.43	13.37	18.14	18.3
Middle CH	-	-	-	-	4.49	4.5	9.11	8.99	13.34	13.43	18.26	18.46
Highest CH	-	-	-	-	4.5	4.49	8.97	8.99	13.37	13.4	18.18	18.1



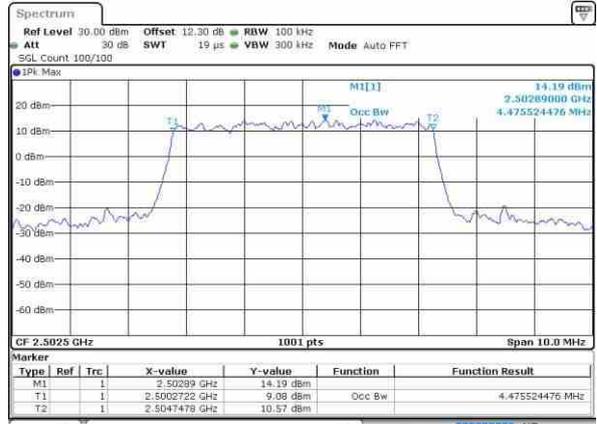
LTE Band 7

Lowest Channel / 5MHz / QPSK



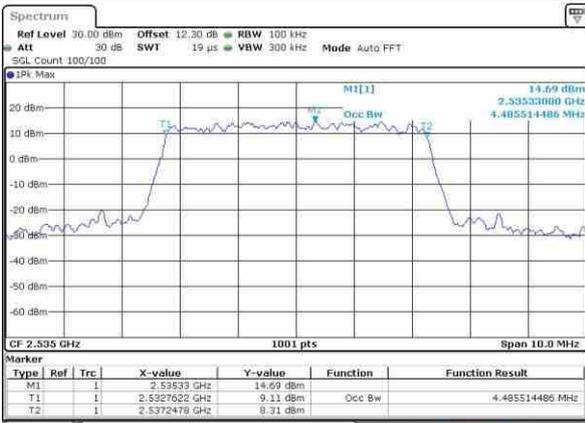
Date: 14 MAR 2016 16:00:51

Lowest Channel / 5MHz / 16QAM



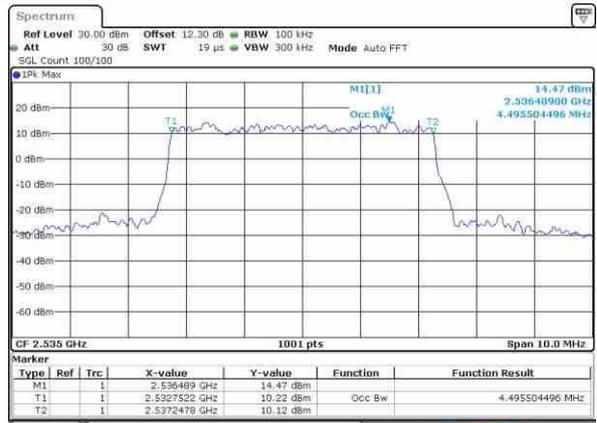
Date: 14 MAR 2016 16:01:01

Middle Channel / 5MHz / QPSK



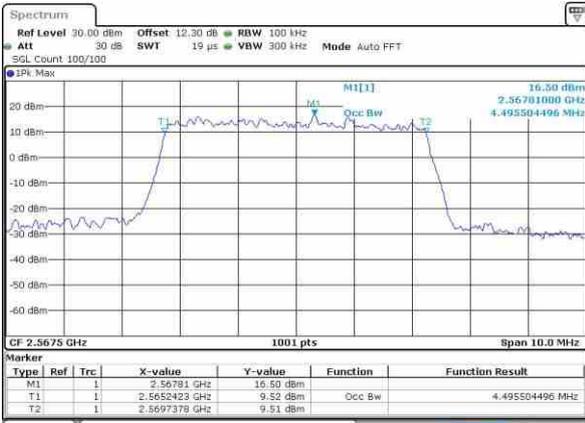
Date: 14 MAR 2016 16:08:00

Middle Channel / 5MHz / 16QAM



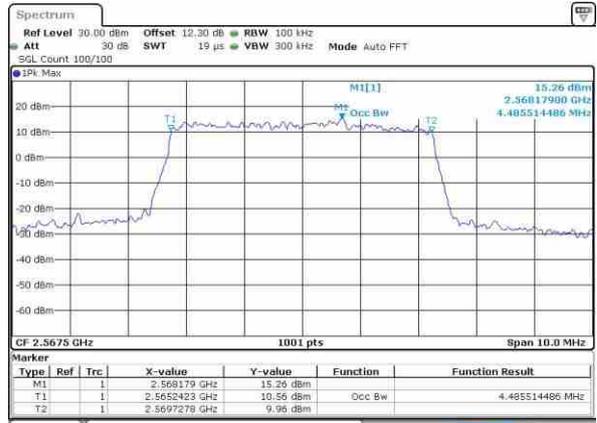
Date: 14 MAR 2016 16:08:11

Highest Channel / 5MHz / QPSK



Date: 14 MAR 2016 16:10:30

Highest Channel / 5MHz / 16QAM

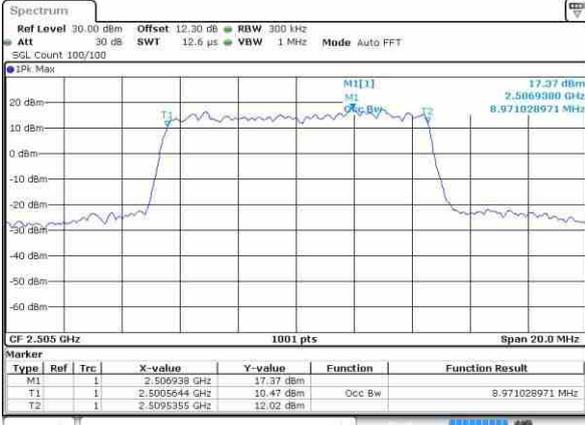


Date: 14 MAR 2016 16:10:41



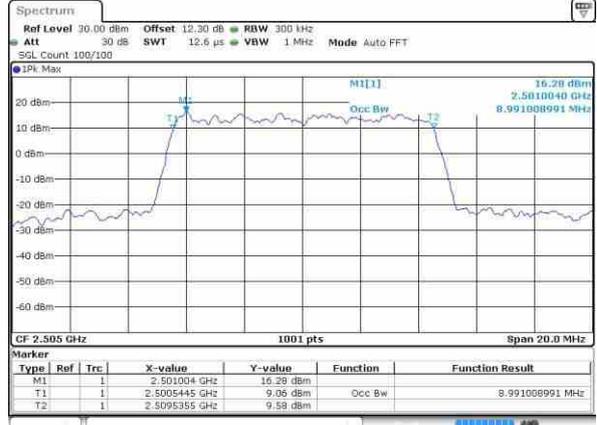
LTE Band 7

Lowest Channel / 10MHz / QPSK



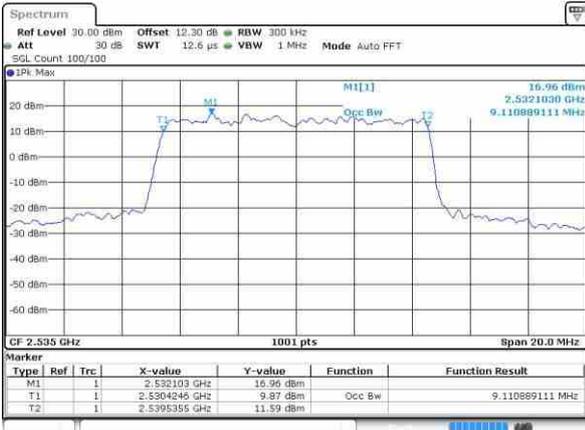
Date: 14 MAR 2016 16:17:40

Lowest Channel / 10MHz / 16QAM



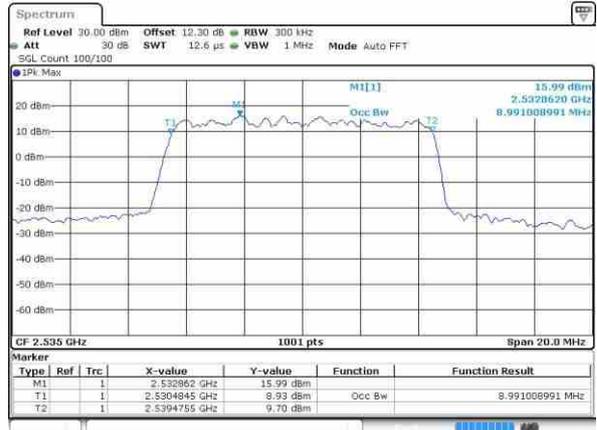
Date: 14 MAR 2016 16:17:51

Middle Channel / 10MHz / QPSK



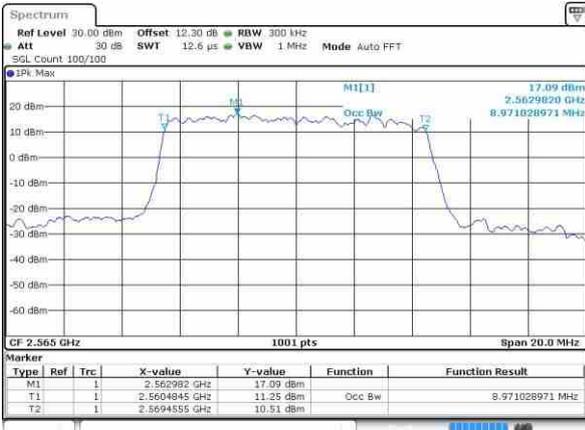
Date: 14 MAR 2016 16:24:50

Middle Channel / 10MHz / 16QAM



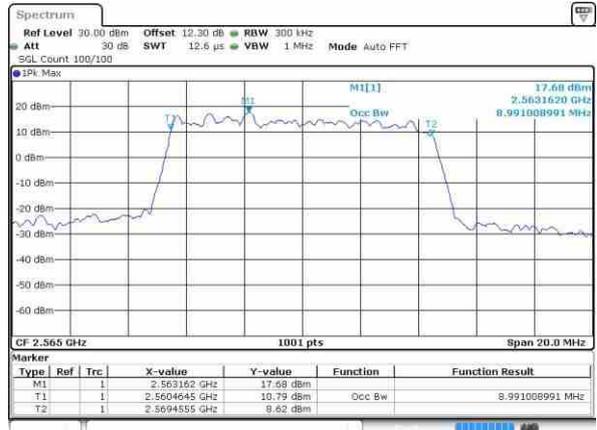
Date: 14 MAR 2016 16:25:01

Highest Channel / 10MHz / QPSK



Date: 14 MAR 2016 16:27:20

Highest Channel / 10MHz / 16QAM

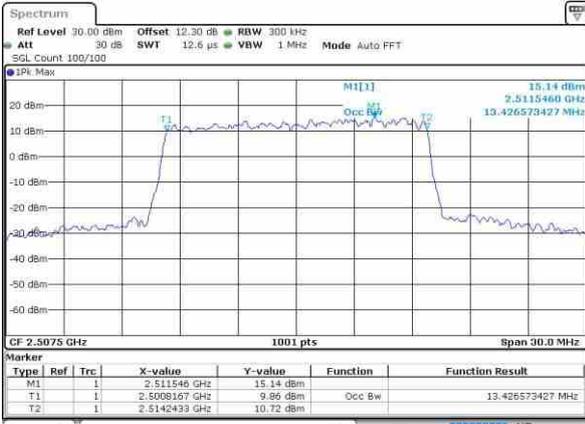


Date: 14 MAR 2016 16:27:31



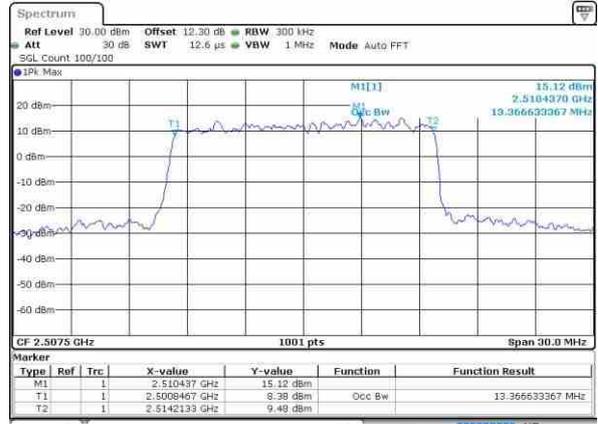
LTE Band 7

Lowest Channel / 15MHz / QPSK



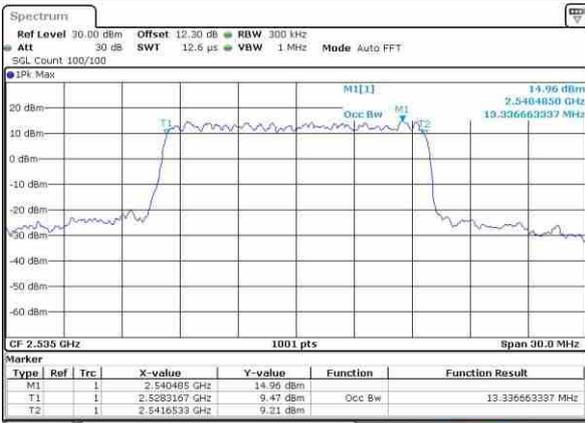
Date: 14.MAR.2016 17:07:45

Lowest Channel / 15MHz / 16QAM



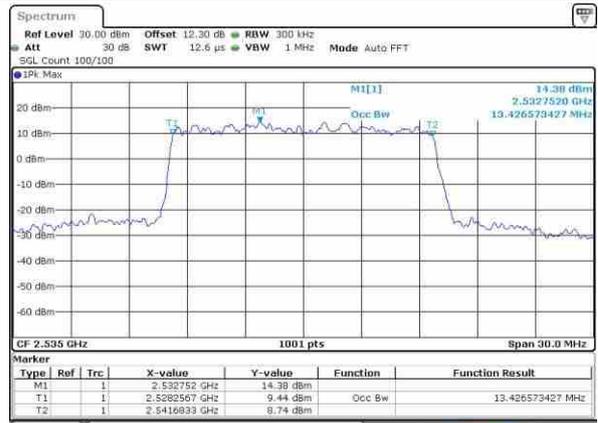
Date: 14.MAR.2016 17:07:55

Middle Channel / 15MHz / QPSK



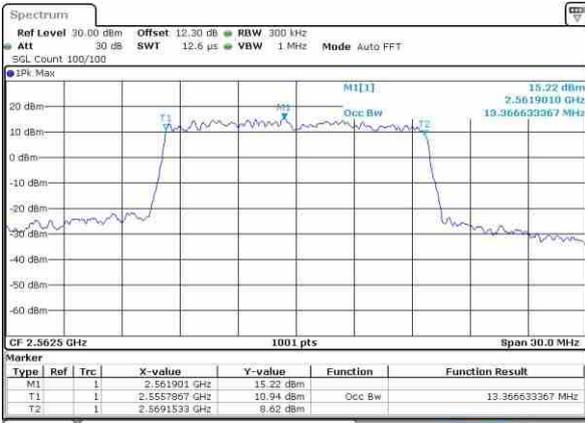
Date: 14.MAR.2016 17:14:54

Middle Channel / 15MHz / 16QAM



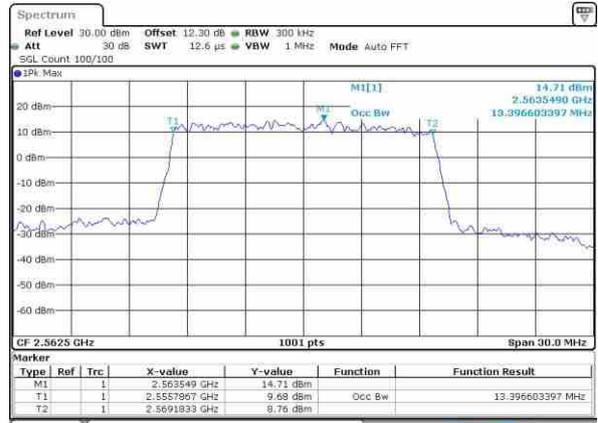
Date: 14.MAR.2016 17:15:05

Highest Channel / 15MHz / QPSK



Date: 14.MAR.2016 17:17:24

Highest Channel / 15MHz / 16QAM

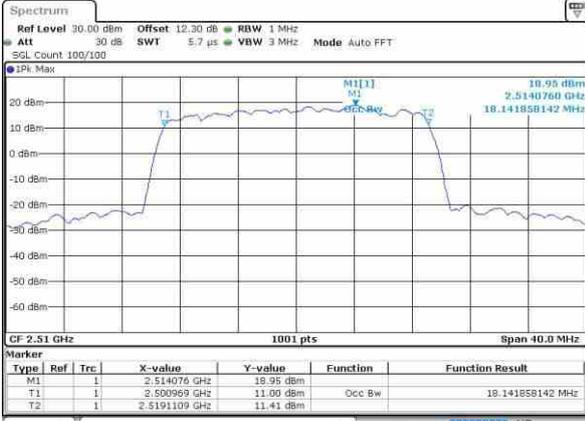


Date: 14.MAR.2016 17:17:34



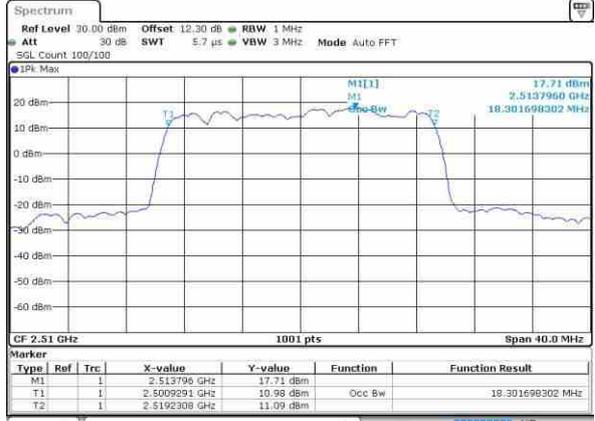
LTE Band 7

Lowest Channel / 20MHz / QPSK



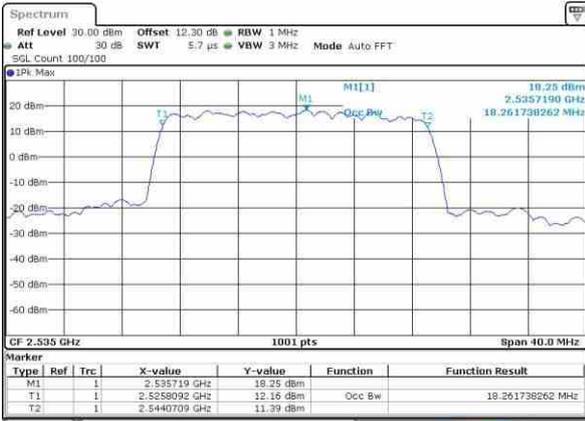
Date: 14.MAR.2016 17:24:33

Lowest Channel / 20MHz / 16QAM



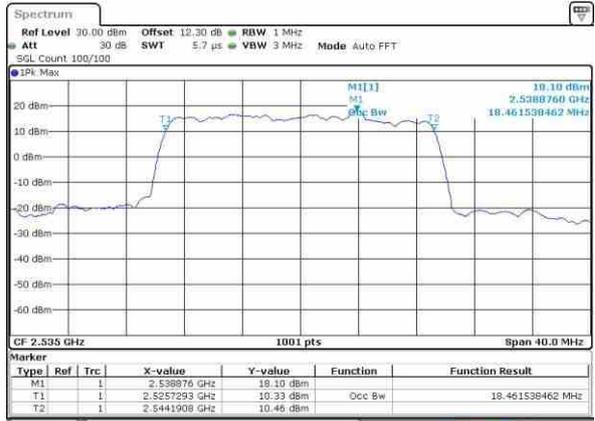
Date: 14.MAR.2016 17:24:43

Middle Channel / 20MHz / QPSK



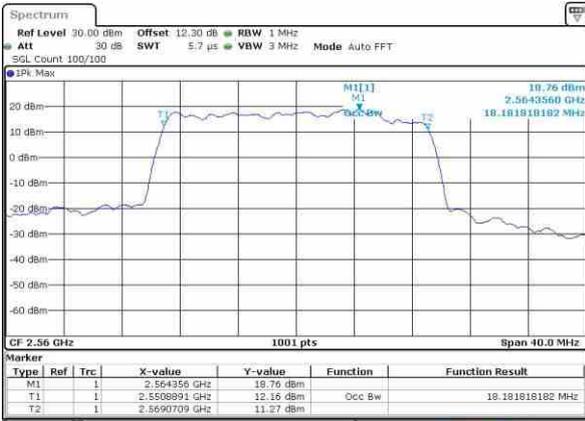
Date: 14.MAR.2016 17:31:41

Middle Channel / 20MHz / 16QAM



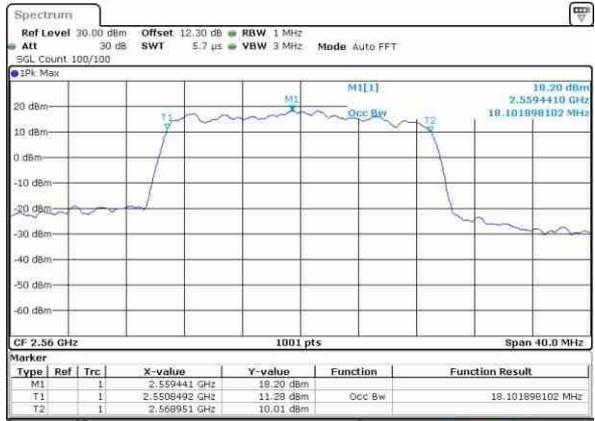
Date: 14.MAR.2016 17:31:52

Highest Channel / 20MHz / QPSK



Date: 14.MAR.2016 17:34:11

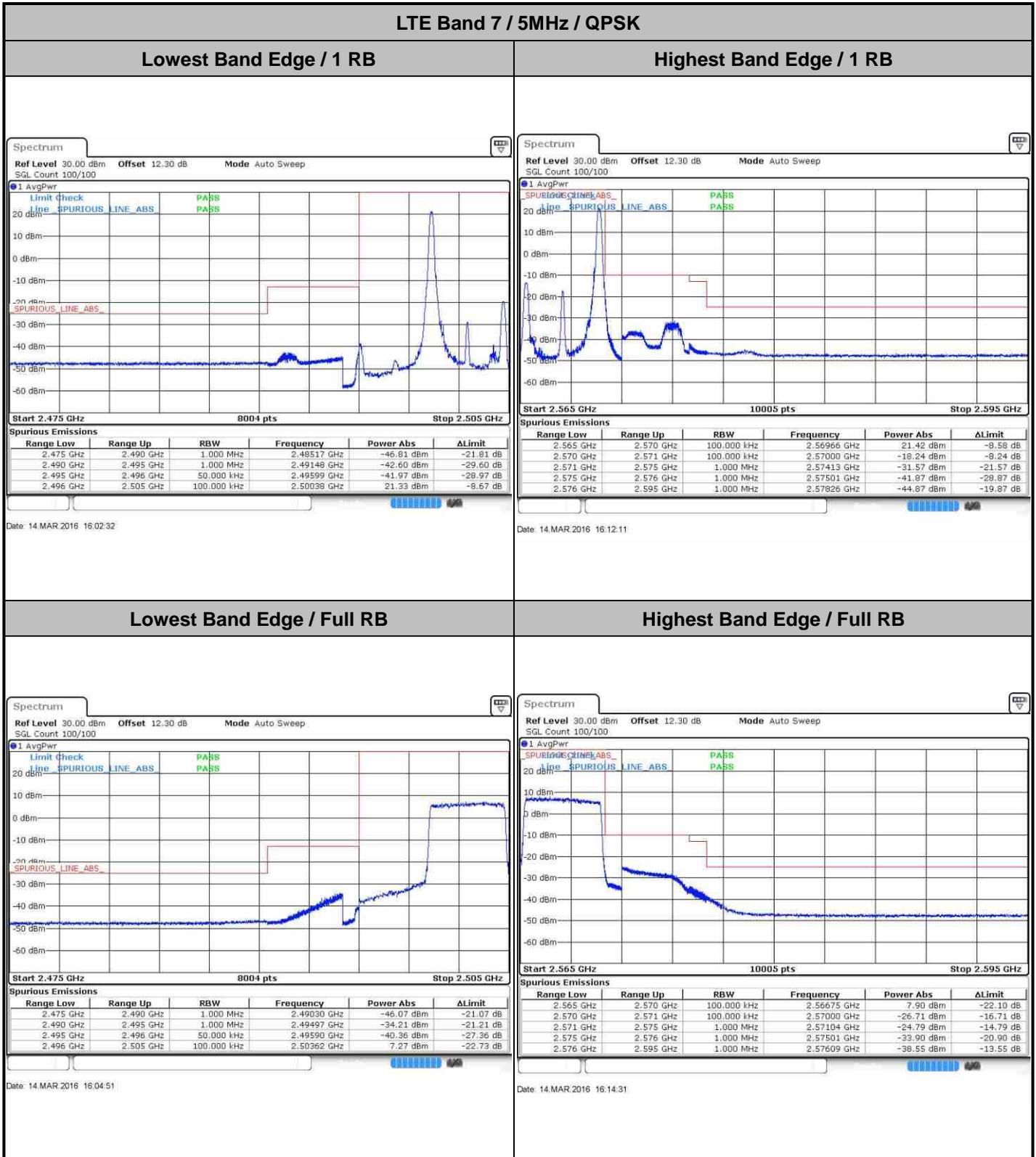
Highest Channel / 20MHz / 16QAM



Date: 14.MAR.2016 17:34:21



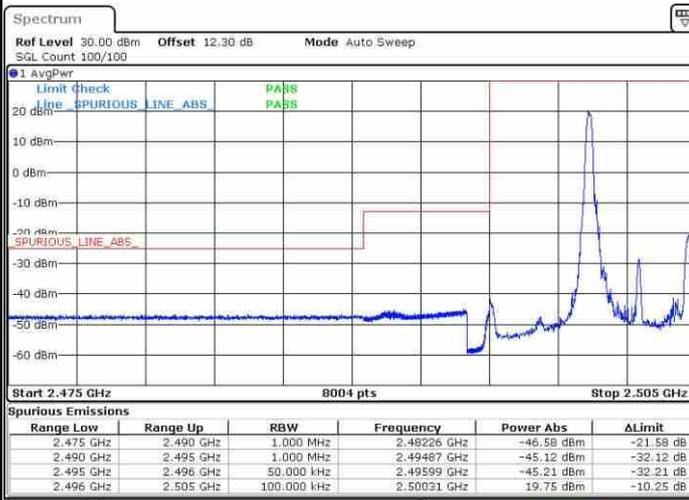
# Conducted Band Edge





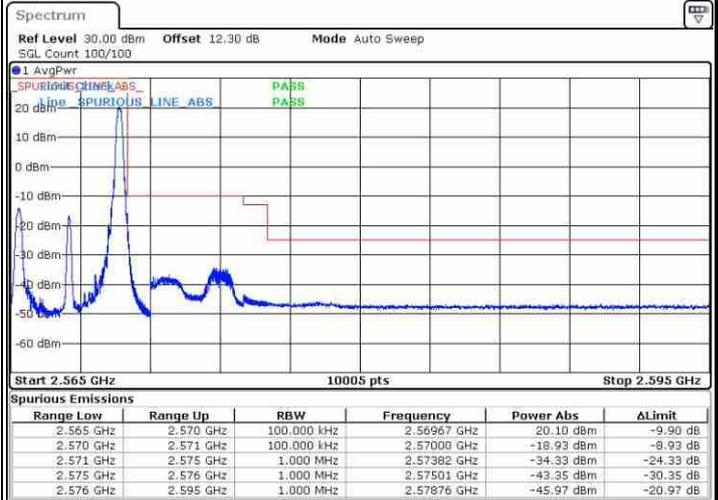
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



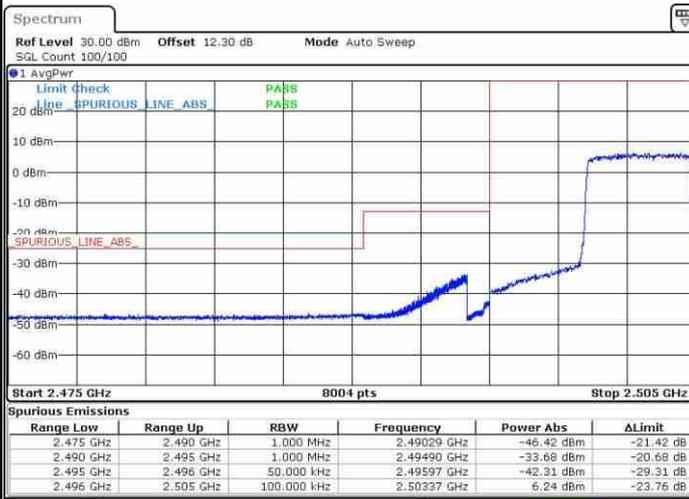
Date: 14.MAR.2016 16:03:41

Highest Band Edge / 1 RB



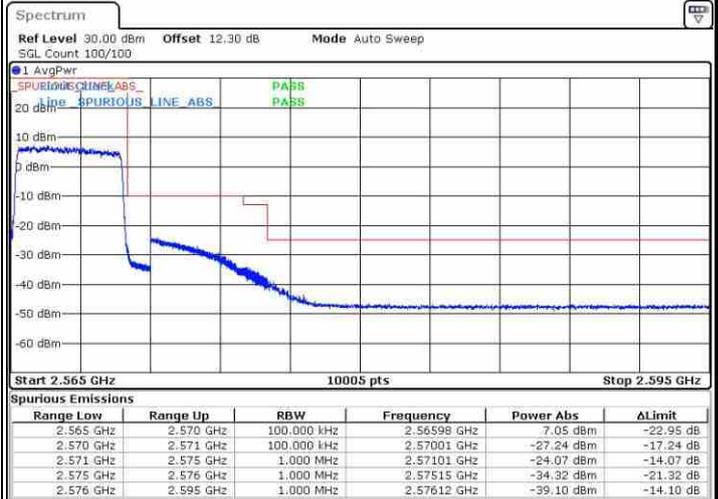
Date: 14.MAR.2016 16:13:21

Lowest Band Edge / Full RB



Date: 14.MAR.2016 16:06:01

Highest Band Edge / Full RB

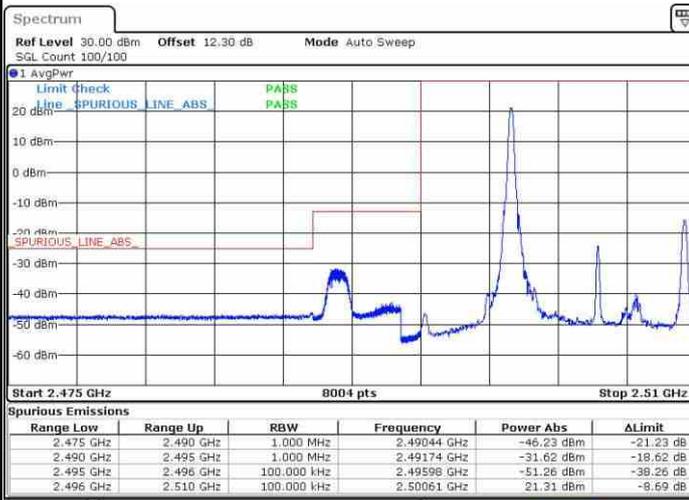


Date: 14.MAR.2016 16:15:41



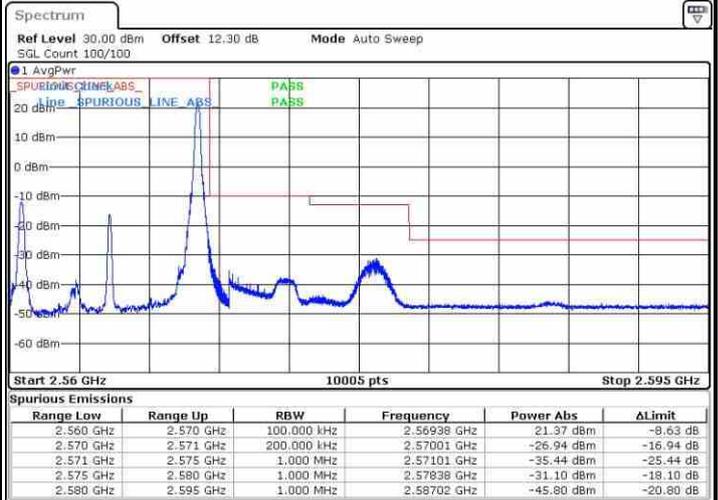
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



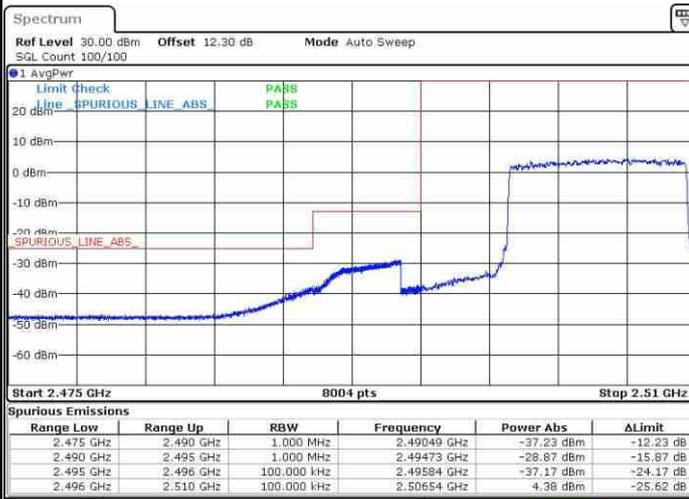
Date: 14.MAR.2016 16:19:21

Highest Band Edge / 1 RB



Date: 14.MAR.2016 16:29:01

Lowest Band Edge / Full RB



Date: 14.MAR.2016 16:21:41

Highest Band Edge / Full RB



Date: 22.MAR.2016 20:08:13