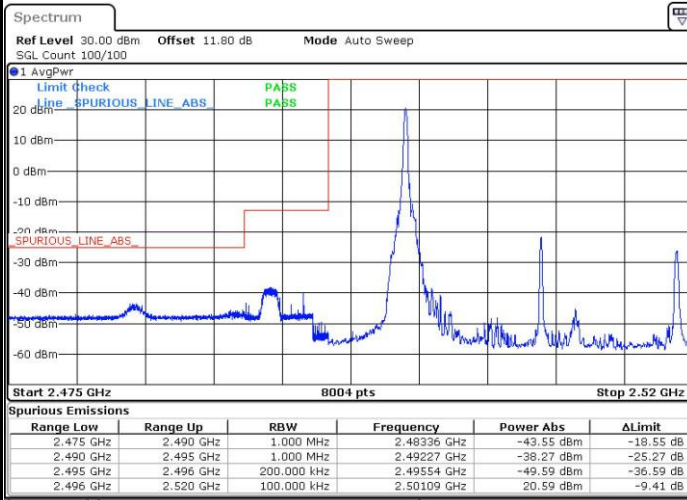




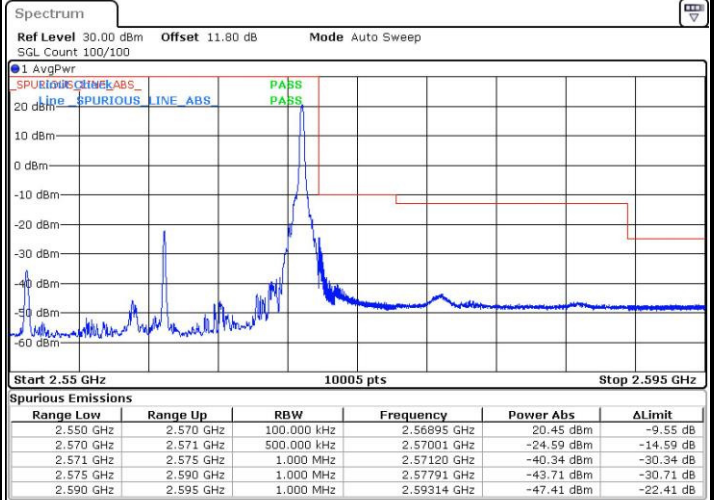
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



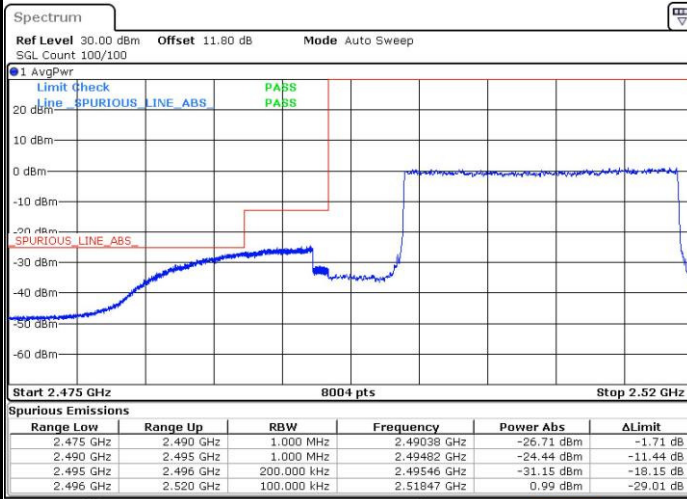
Date: 14 APR 2016 17:33:25

Highest Band Edge / 1 RB



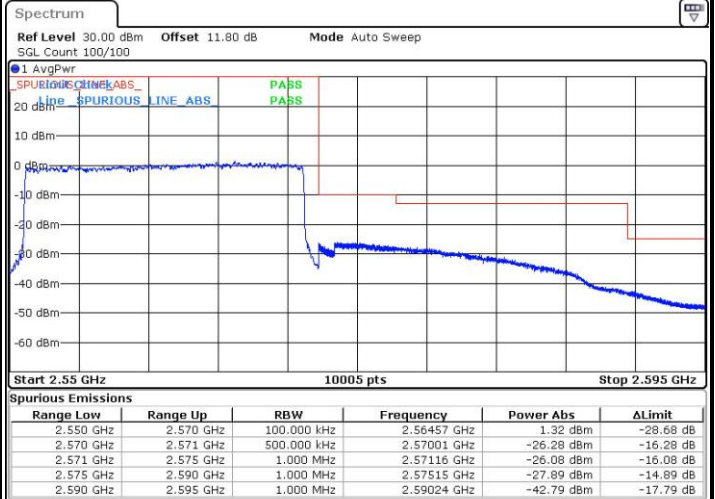
Date: 14 APR 2016 17:43:08

Lowest Band Edge / Full RB



Date: 14 APR 2016 17:35:45

Highest Band Edge / Full RB

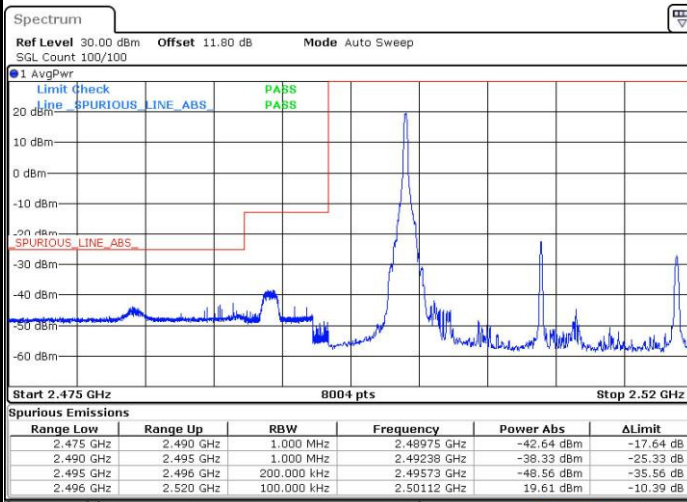


Date: 14 APR 2016 17:46:38



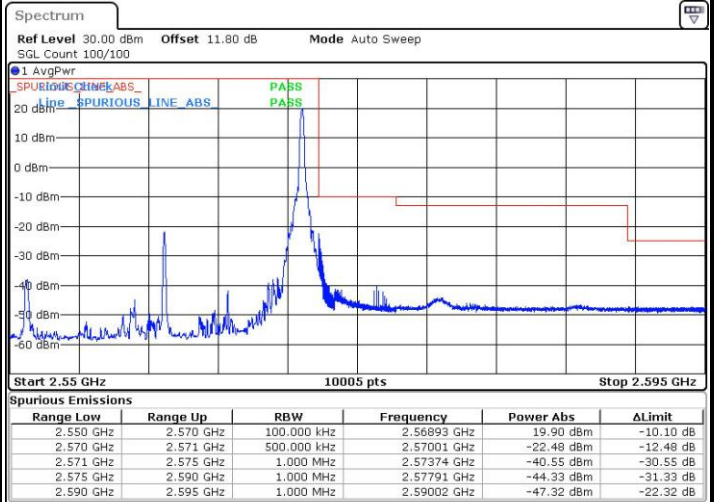
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



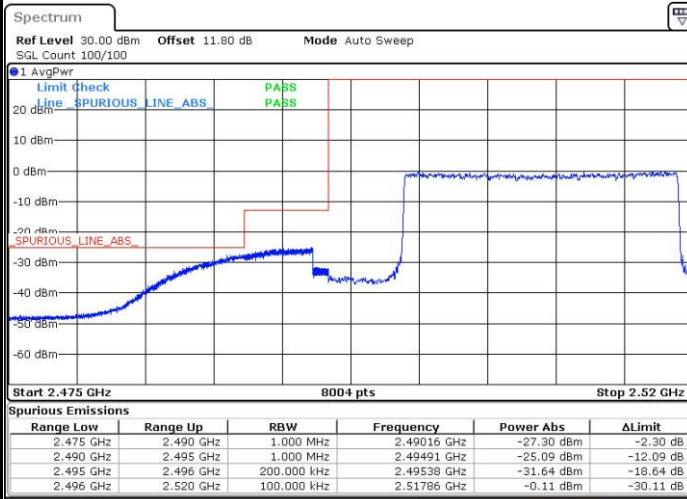
Date: 14 APR 2016 17:34:35

Highest Band Edge / 1RB



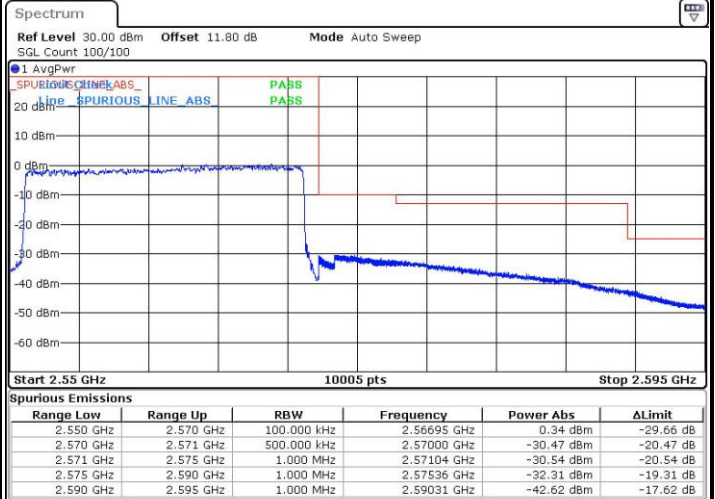
Date: 14 APR 2016 17:44:18

Lowest Band Edge / Full RB



Date: 14 APR 2016 17:36:55

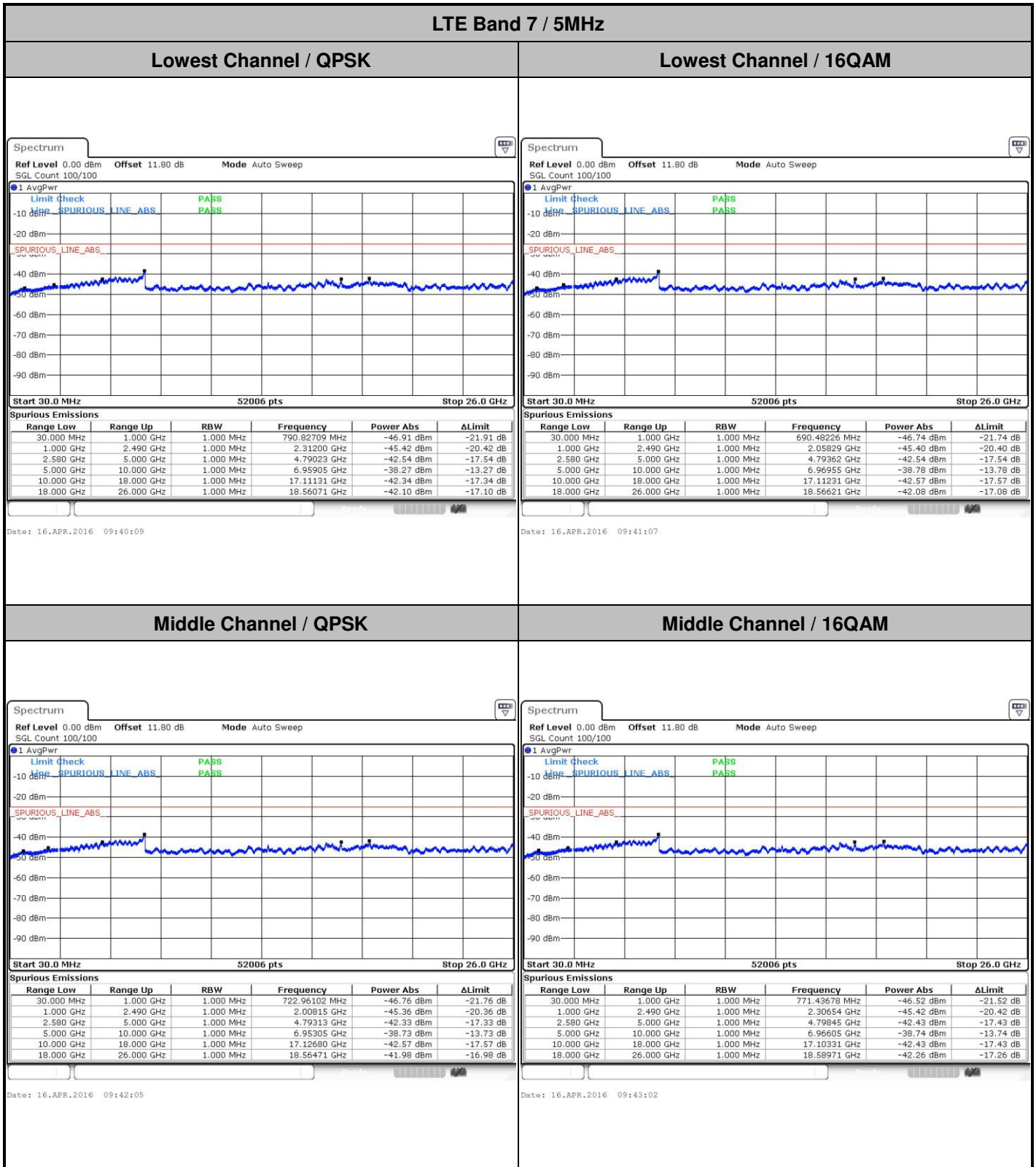
Highest Band Edge / Full RB



Date: 14 APR 2016 17:45:28



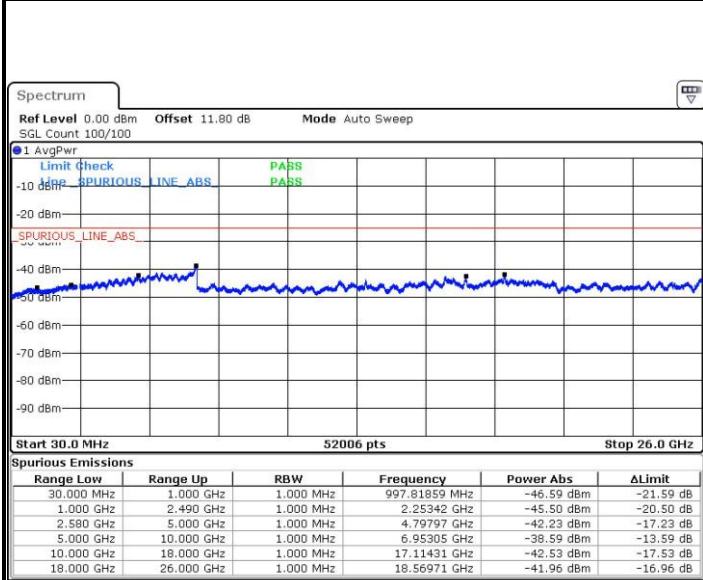
# Conducted Spurious Emission





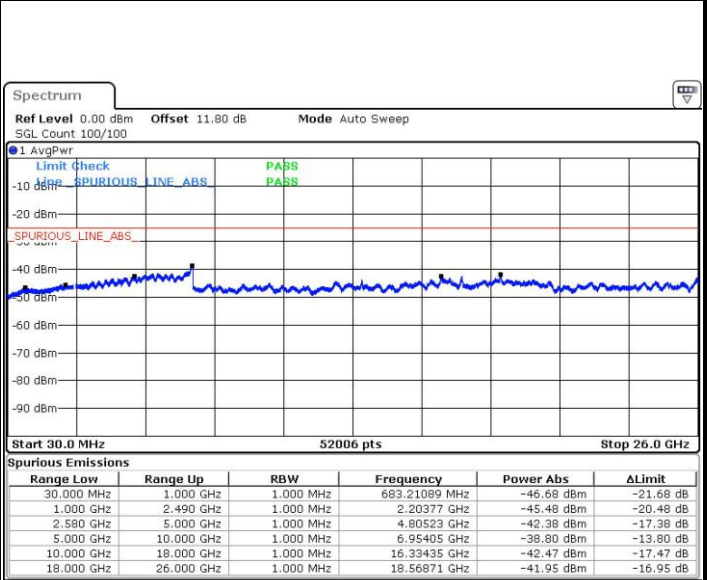
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 16.APR.2016 09:44:00

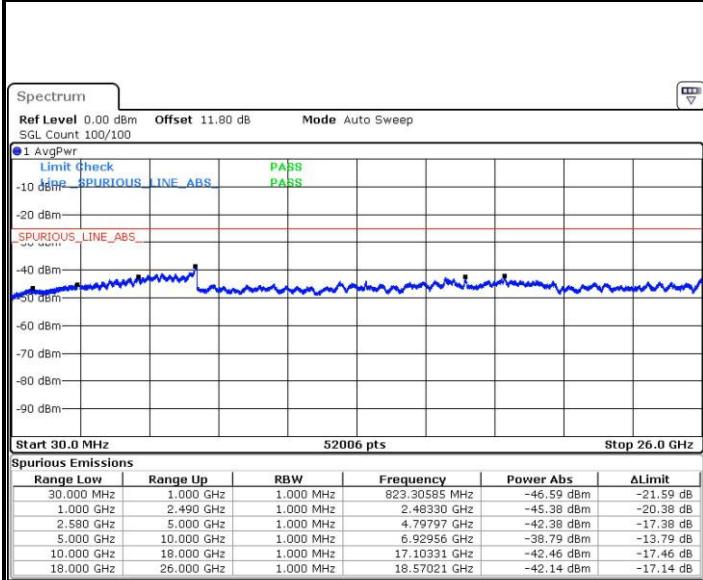
Highest Channel / 16QAM



Date: 16.APR.2016 09:44:58

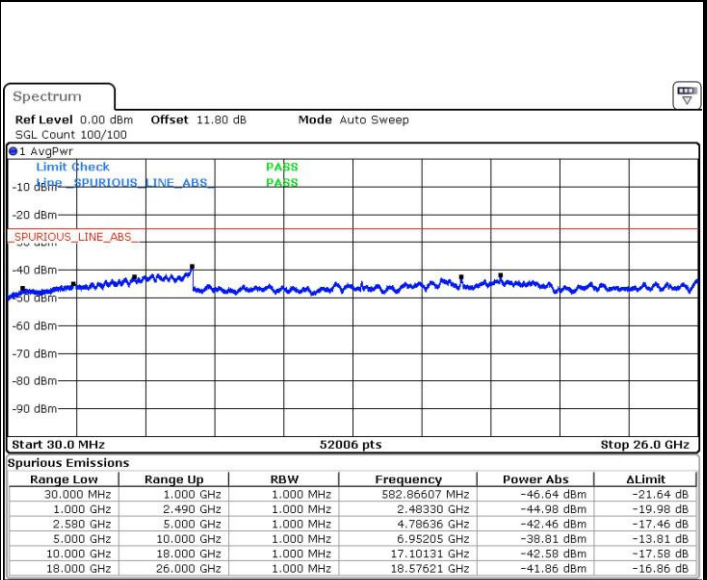
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 16.APR.2016 09:45:55

Lowest Channel / 16QAM



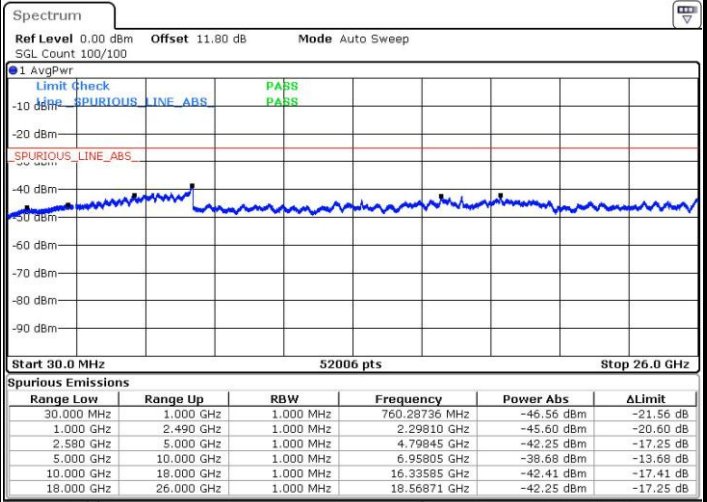
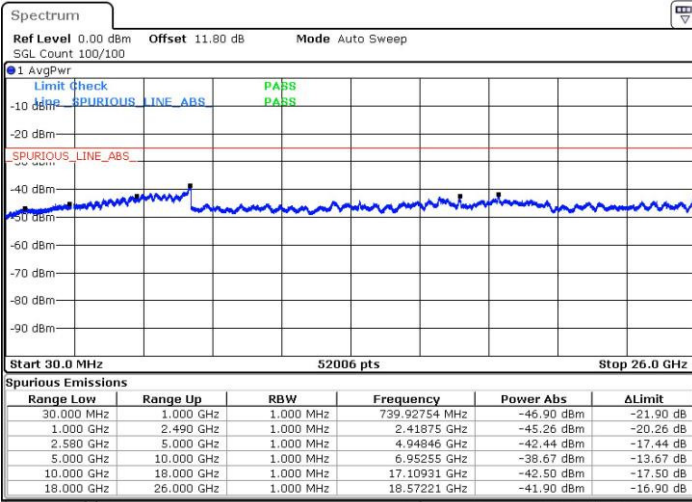
Date: 16.APR.2016 09:46:53



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

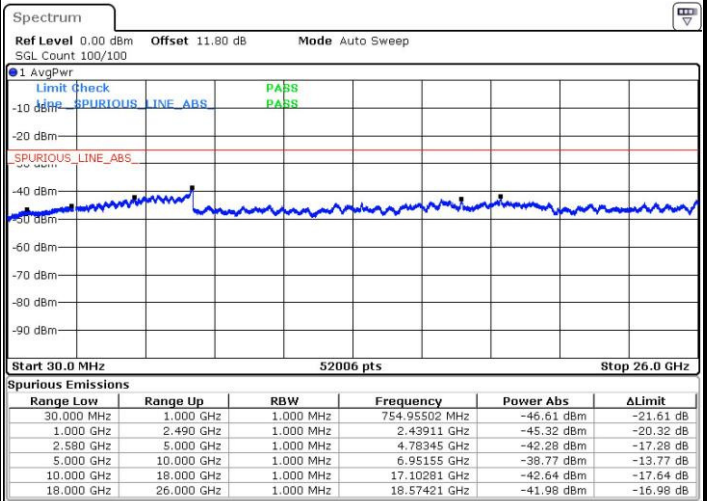
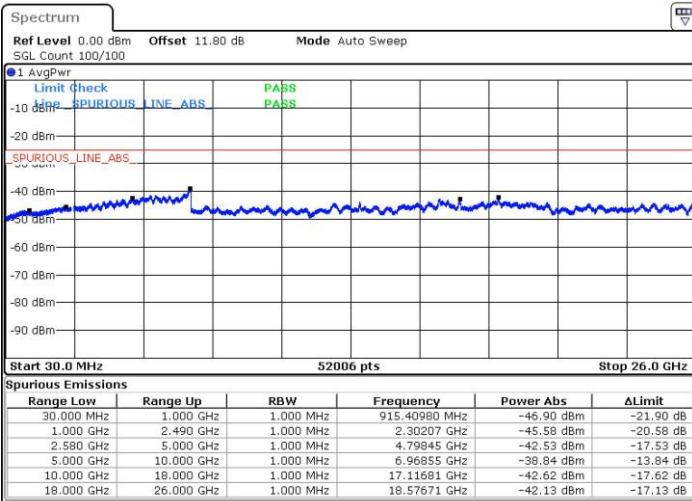


Date: 16.APR.2016 09:47:51

Date: 16.APR.2016 09:48:49

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.APR.2016 09:49:46

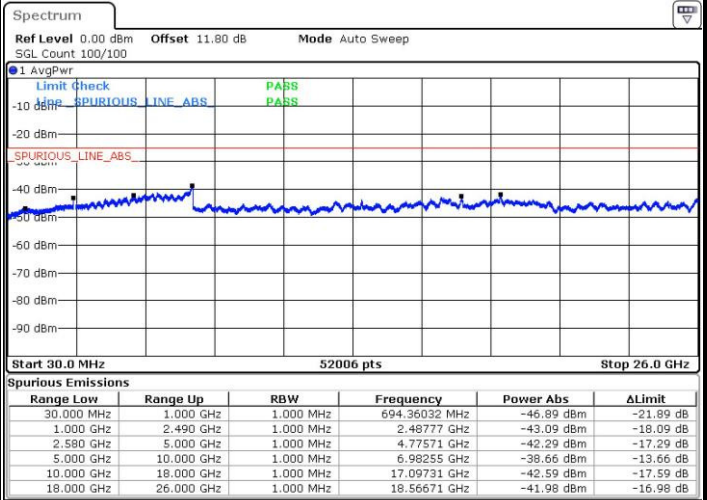
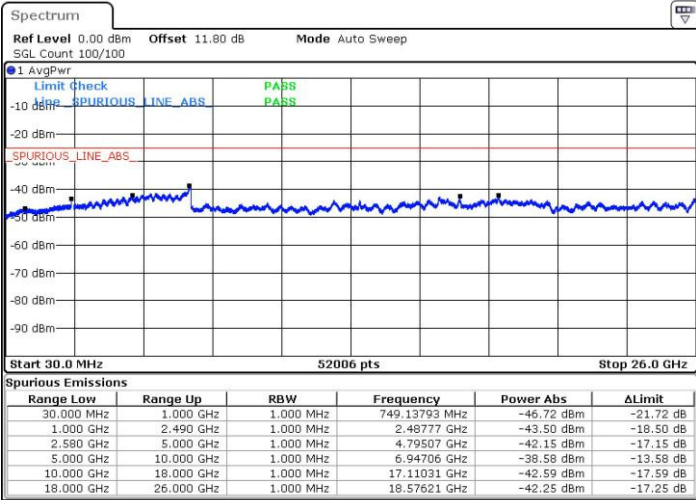
Date: 16.APR.2016 09:50:44



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

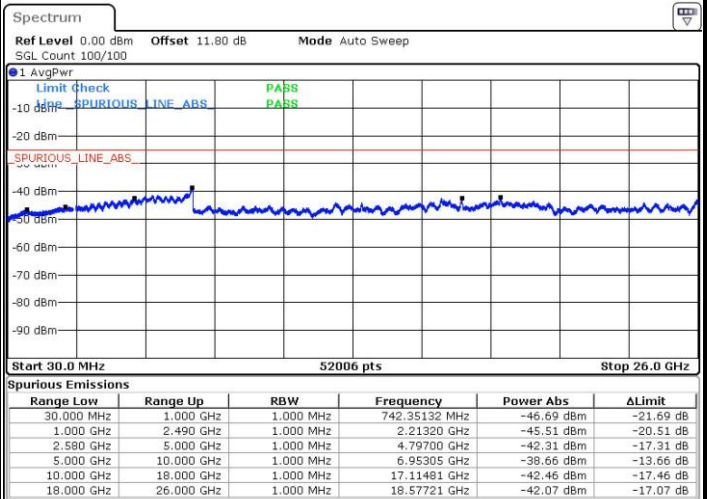
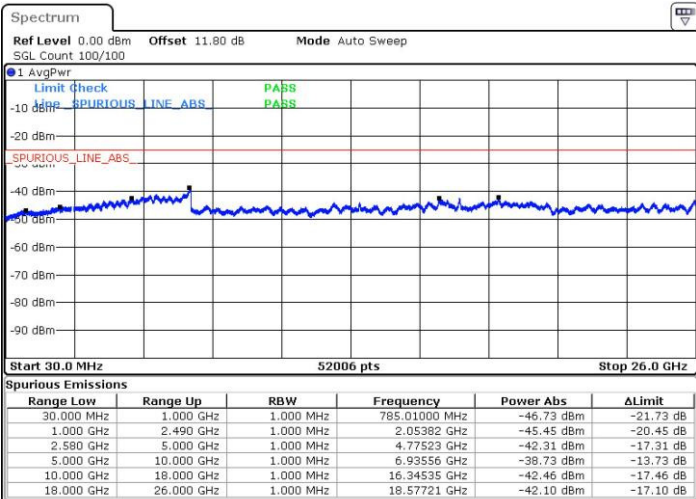


Date: 16.APR.2016 09:51:42

Date: 16.APR.2016 09:52:39

Middle Channel / QPSK

Middle Channel / 16QAM



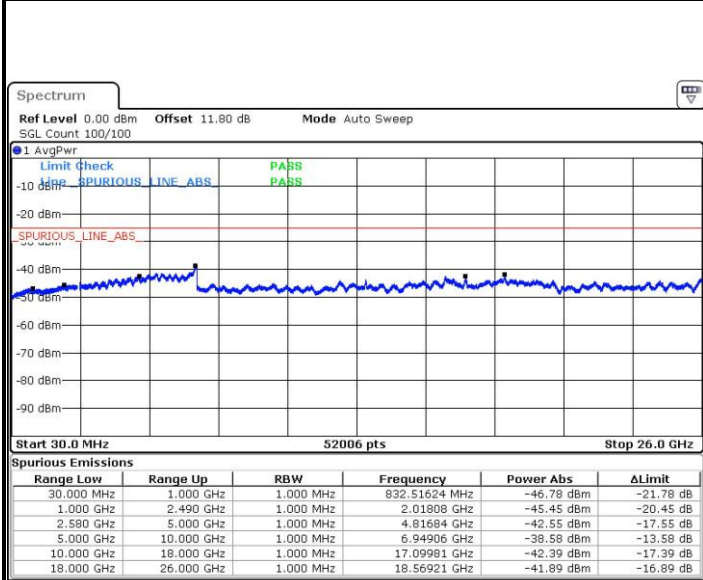
Date: 16.APR.2016 09:53:37

Date: 16.APR.2016 09:54:35



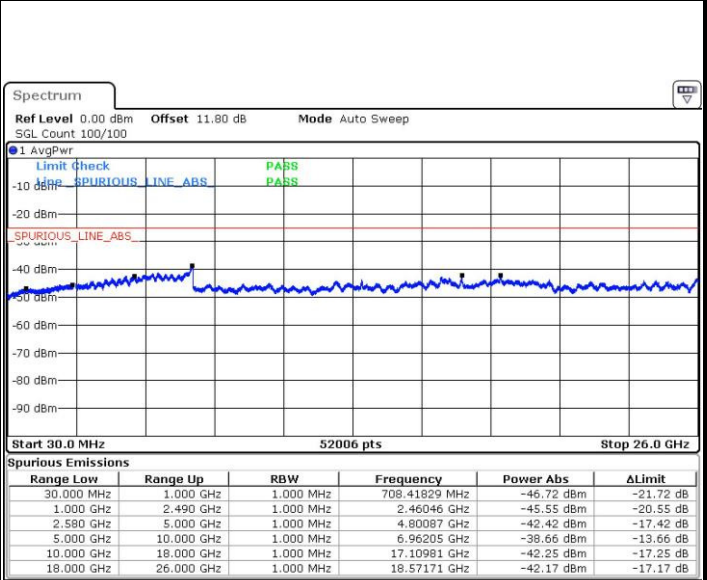
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 16.APR.2016 09:55:33

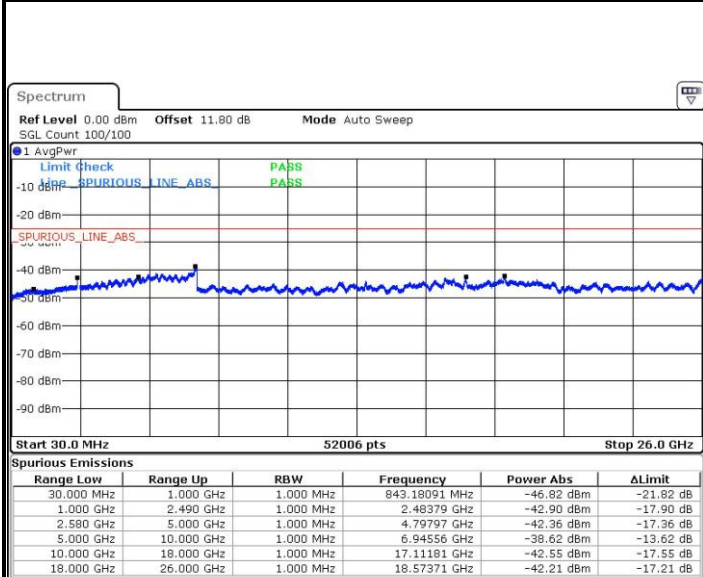
Highest Channel / 16QAM



Date: 16.APR.2016 09:56:31

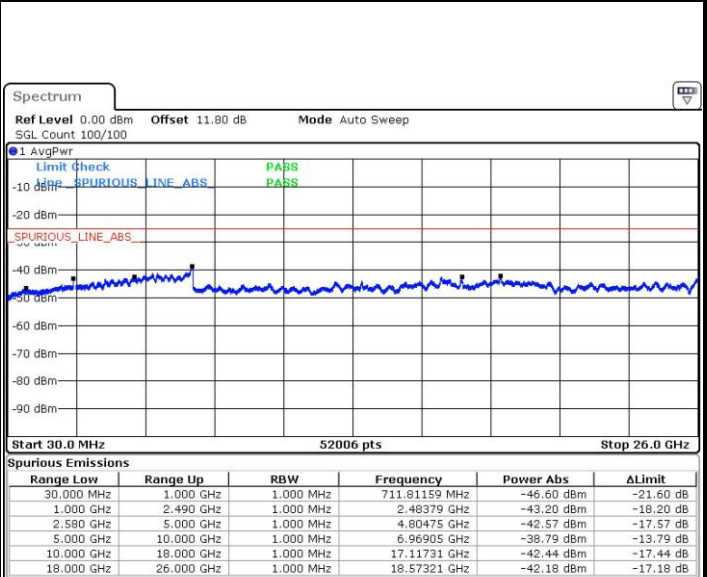
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 16.APR.2016 09:57:28

Lowest Channel / 16QAM



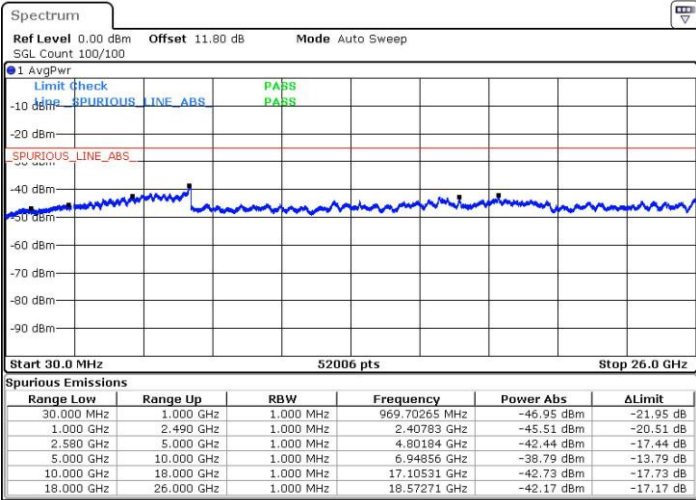
Date: 16.APR.2016 09:58:26



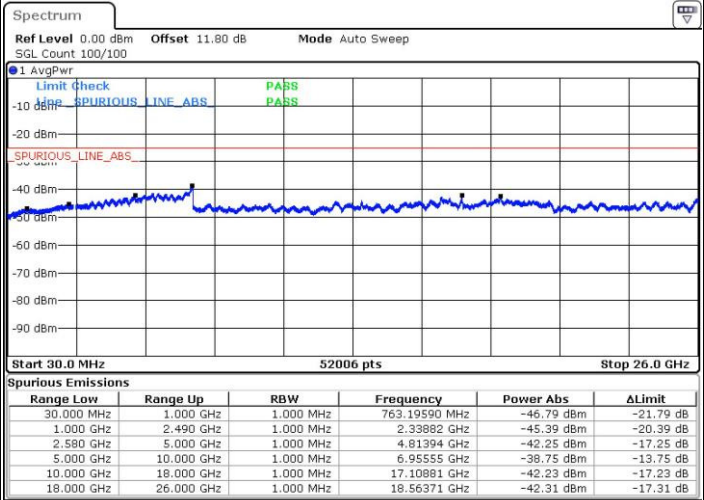
LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



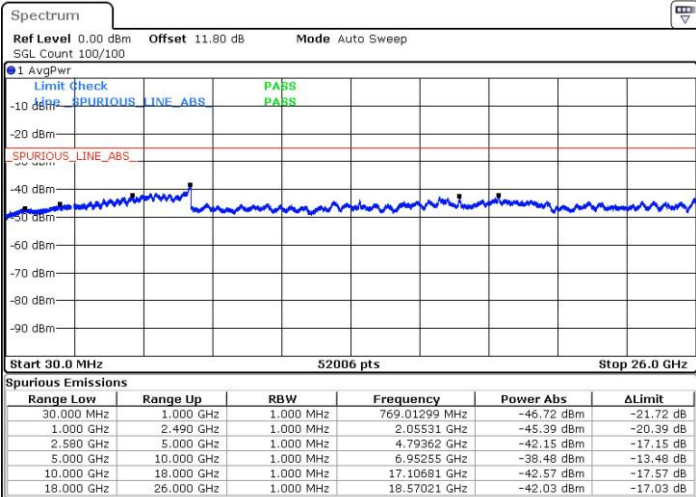
Date: 16.APR.2016 09:59:24



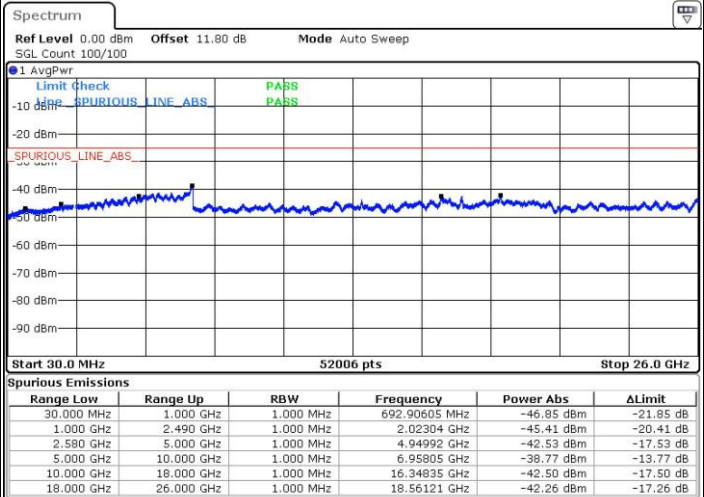
Date: 16.APR.2016 10:00:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.APR.2016 10:01:20



Date: 16.APR.2016 10:02:16



### 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	0.0058	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0058	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0059	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0056	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 13

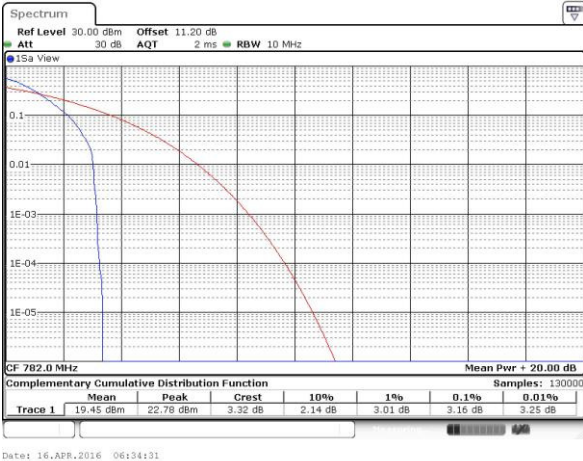
## Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.16	4.99	4.17	5.88	
Highest CH	-	-	-	-	



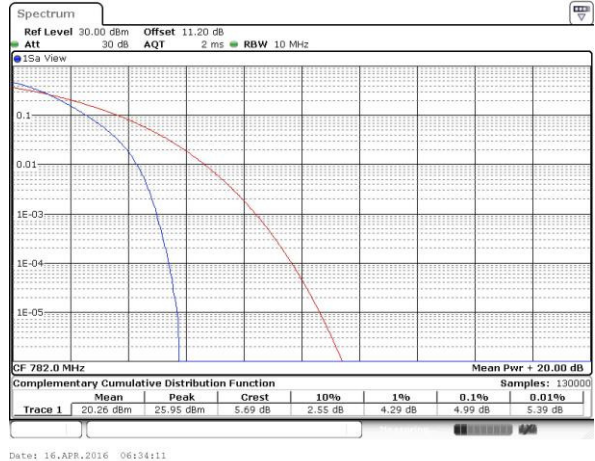
LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 16.APR.2016 06:34:13

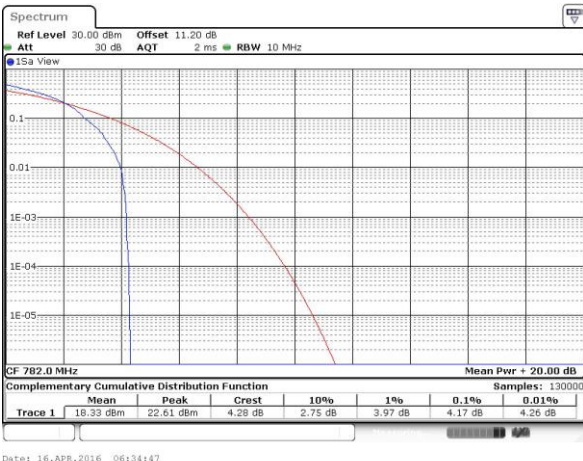
Middle Channel / Full RB



Date: 16.APR.2016 06:34:11

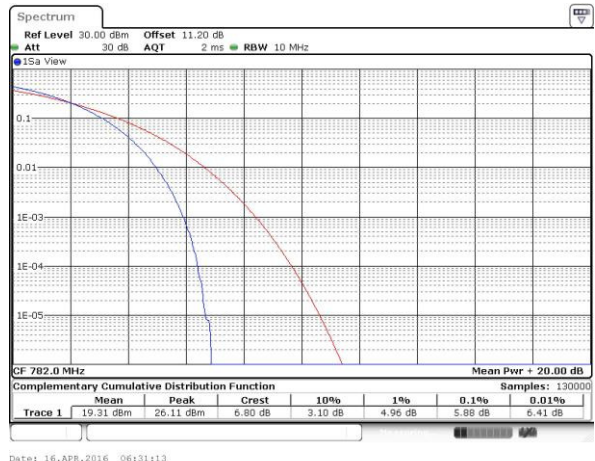
LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 16.APR.2016 06:34:47

Middle Channel / Full RB



Date: 16.APR.2016 06:31:13



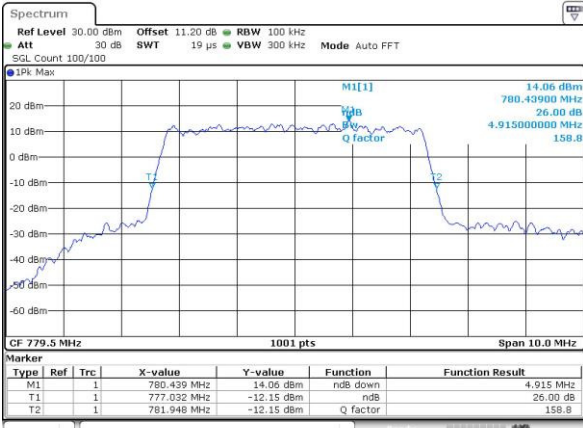
**26dB Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.92	4.90	-	-	-	-	-	-
Middle CH	-	-	-	-	4.92	4.83	9.75	9.65	-	-	-	-
Highest CH	-	-	-	-	4.93	4.86	-	-	-	-	-	-



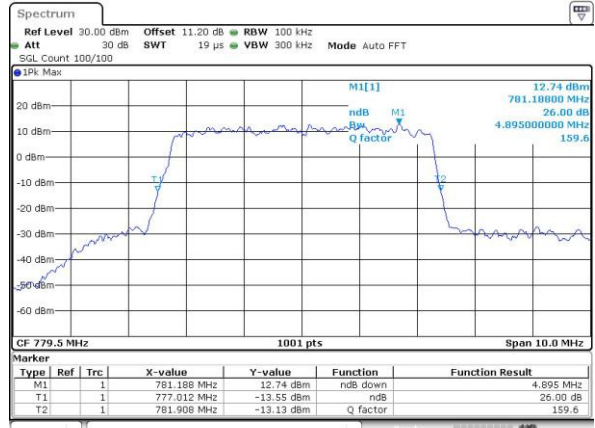
LTE Band 13

Lowest Channel / 5MHz / QPSK



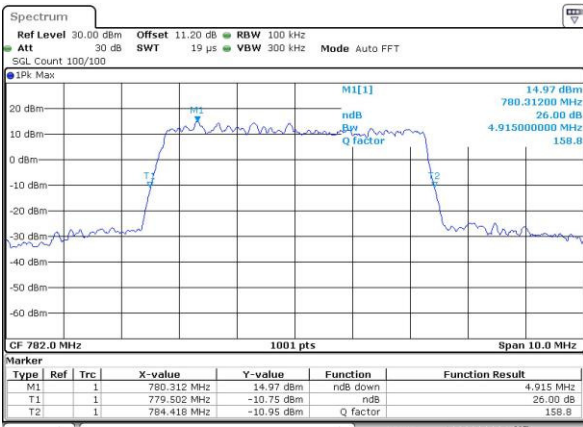
Date: 16.APR.2016 05:50:54

Lowest Channel / 5MHz / 16QAM



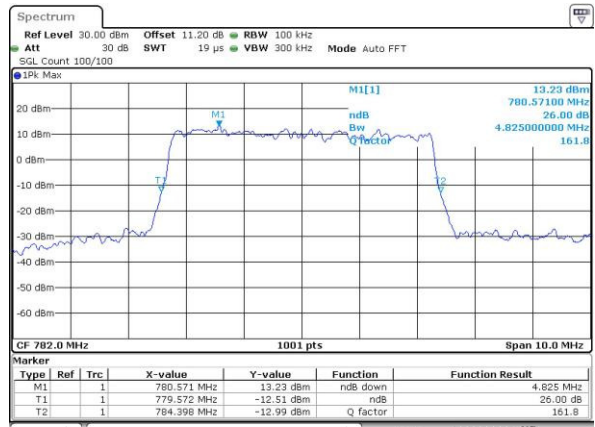
Date: 16.APR.2016 05:51:05

Middle Channel / 5MHz / QPSK



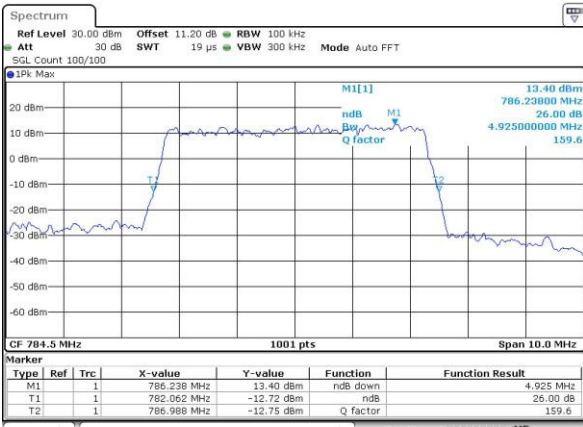
Date: 16.APR.2016 05:51:41

Middle Channel / 5MHz / 16QAM



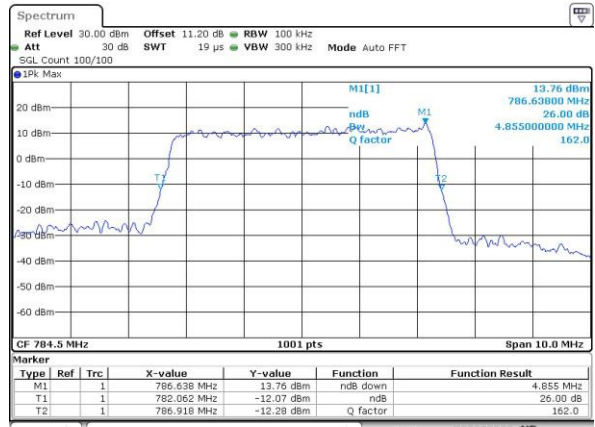
Date: 16.APR.2016 05:51:52

Highest Channel / 5MHz / QPSK



Date: 16.APR.2016 05:52:27

Highest Channel / 5MHz / 16QAM

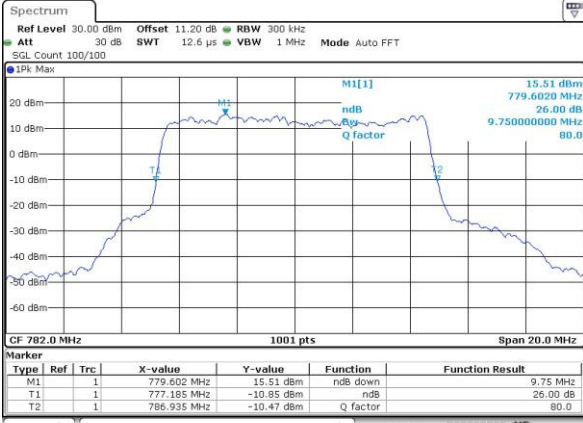


Date: 16.APR.2016 05:52:39



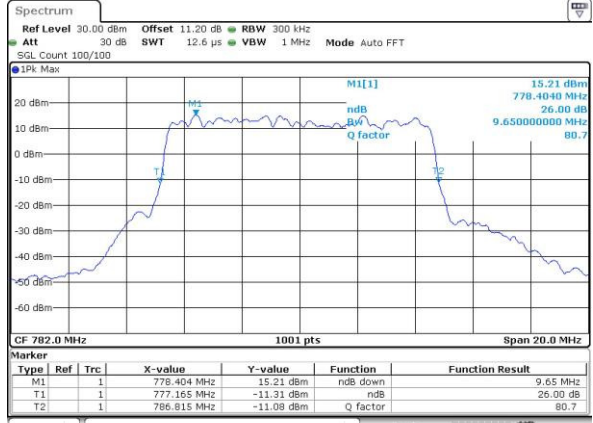
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 16, APR, 2016 05:53:14

Middle Channel / 10MHz / 16QAM



Date: 16, APR, 2016 05:53:25



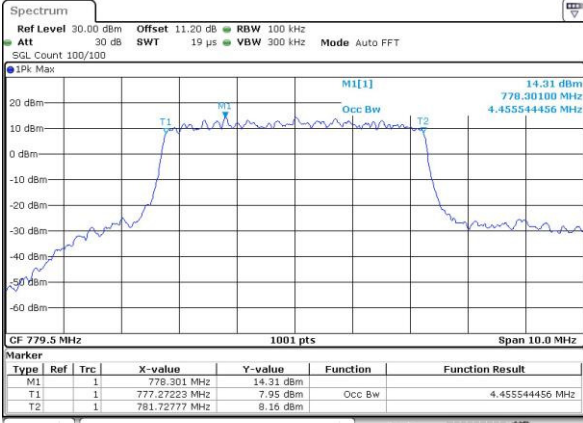
### Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.46	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.5	4.5	8.99	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.5	-	-	-	-	-	-



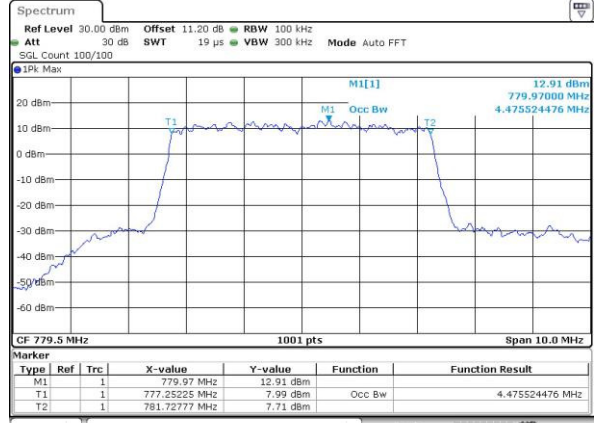
LTE Band 13

Lowest Channel / 5MHz / QPSK



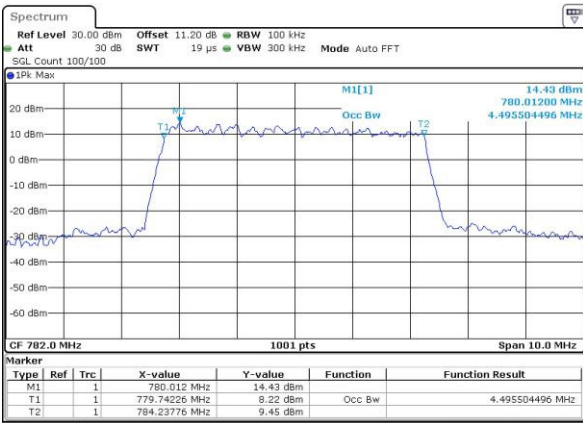
Date: 16.APR.2016 05:50:30

Lowest Channel / 5MHz / 16QAM



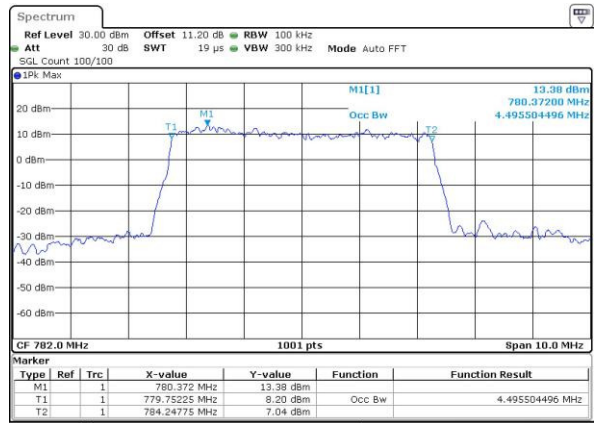
Date: 16.APR.2016 05:50:42

Middle Channel / 5MHz / QPSK



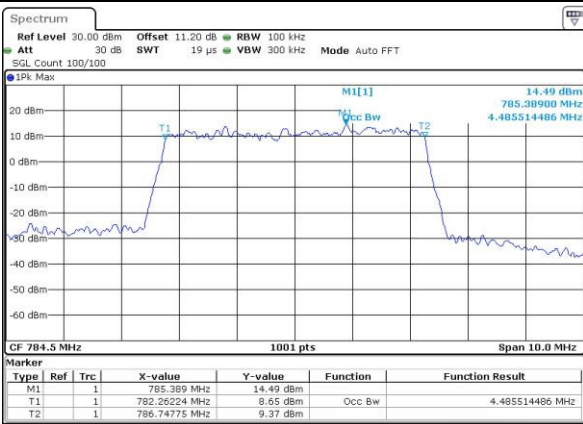
Date: 16.APR.2016 05:51:17

Middle Channel / 5MHz / 16QAM



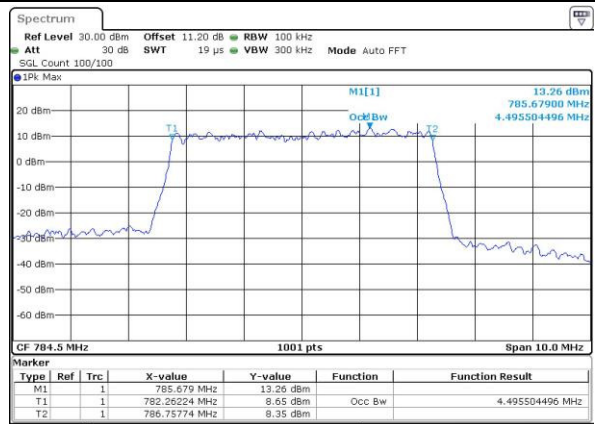
Date: 16.APR.2016 05:51:29

Highest Channel / 5MHz / QPSK



Date: 16.APR.2016 05:52:04

Highest Channel / 5MHz / 16QAM

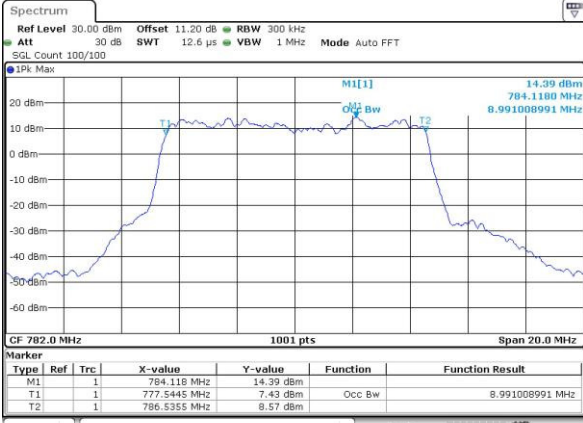


Date: 16.APR.2016 05:52:16



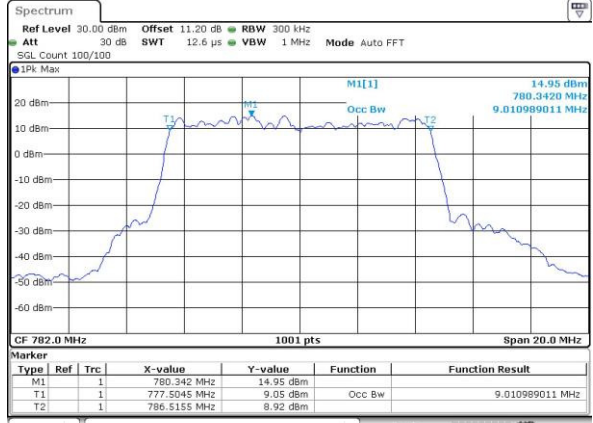
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 16.APR.2016 05:52:50

Middle Channel / 10MHz / 16QAM



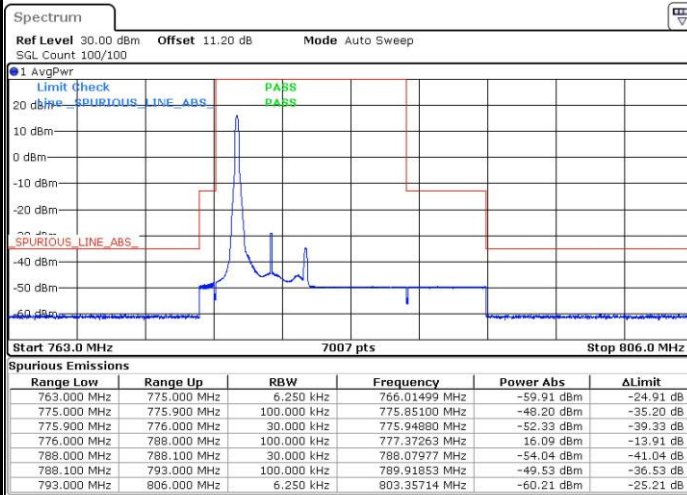
Date: 16.APR.2016 05:53:02



# Conducted Band Edge

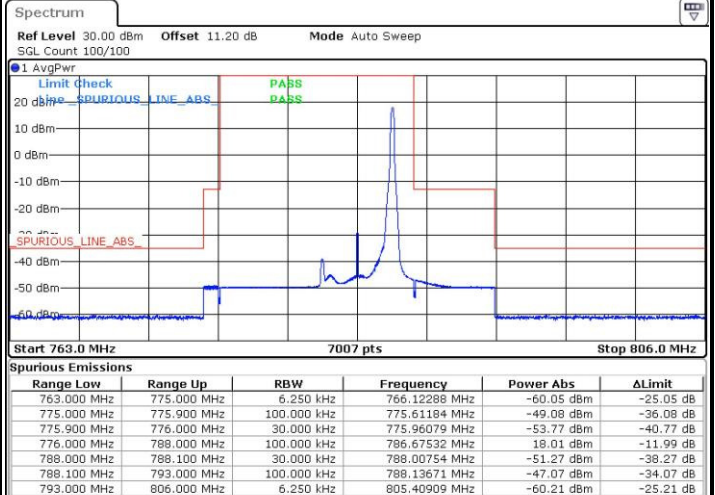
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



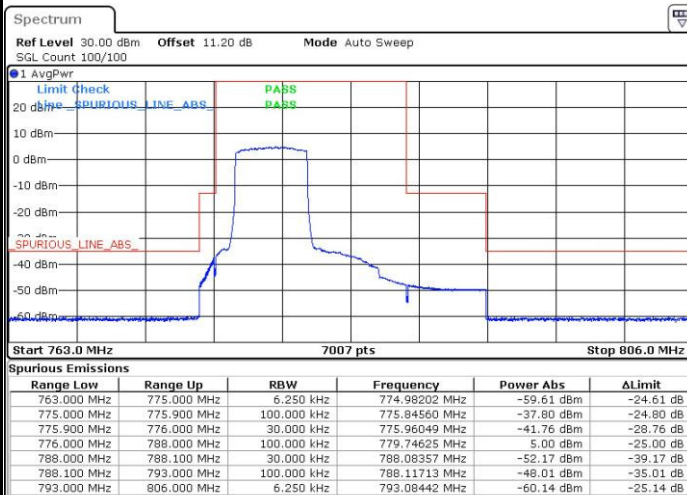
Date: 16.APR.2016 06:00:28

### Highest Band Edge / 1 RB



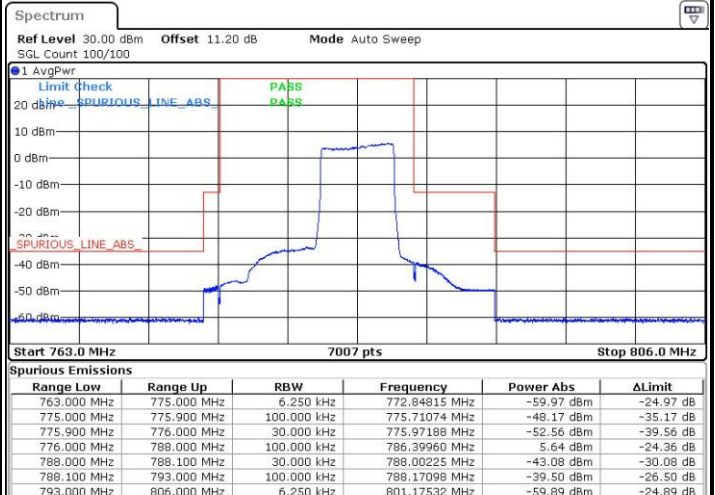
Date: 16.APR.2016 06:11:12

### Lowest Band Edge / Full RB



Date: 16.APR.2016 06:01:55

### Highest Band Edge / Full RB



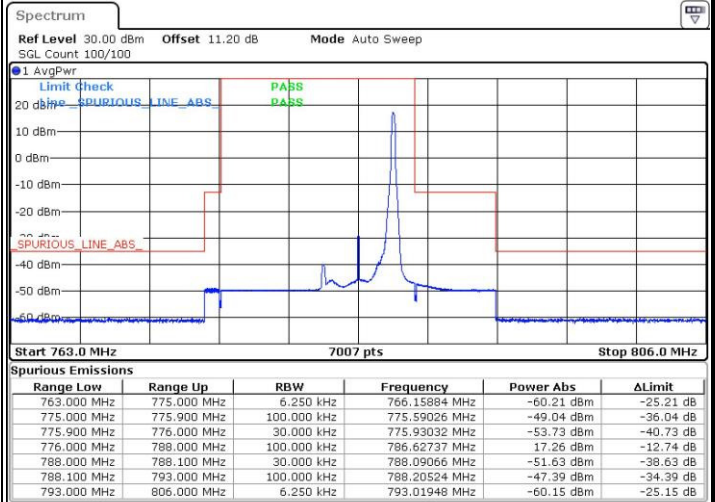
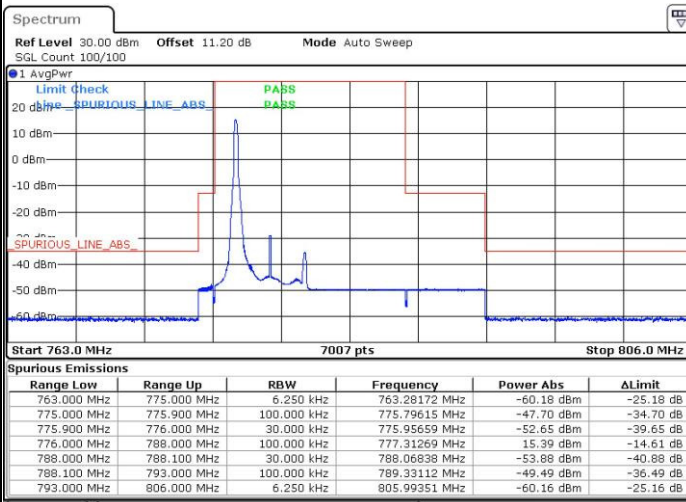
Date: 16.APR.2016 06:06:38



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

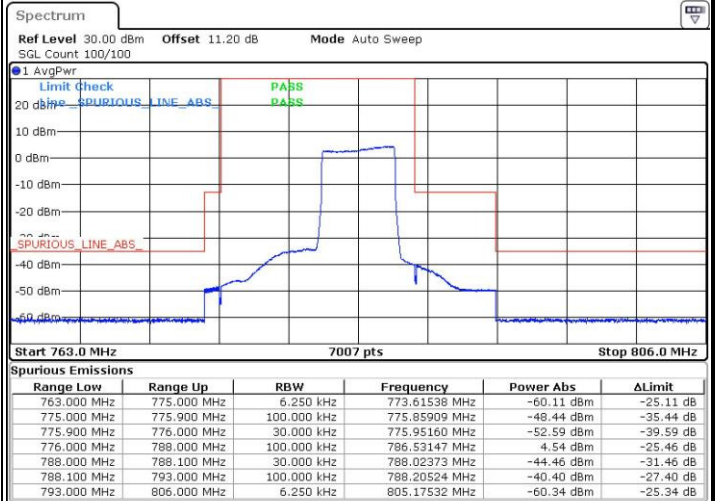
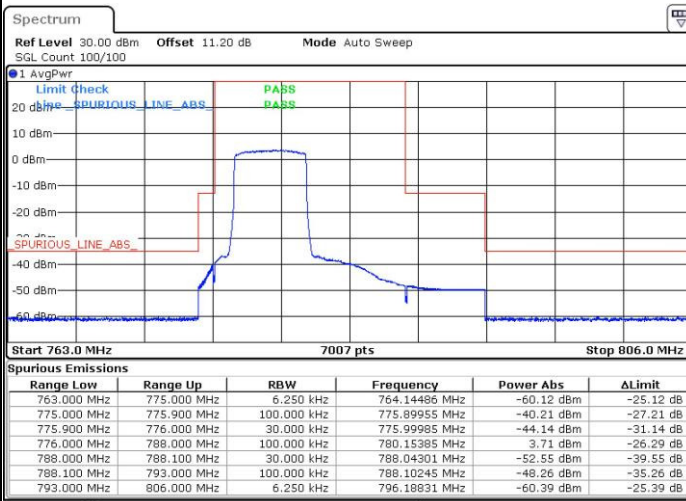


Date: 16.APR.2016 05:57:53

Date: 16.APR.2016 06:09:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.APR.2016 06:03:19

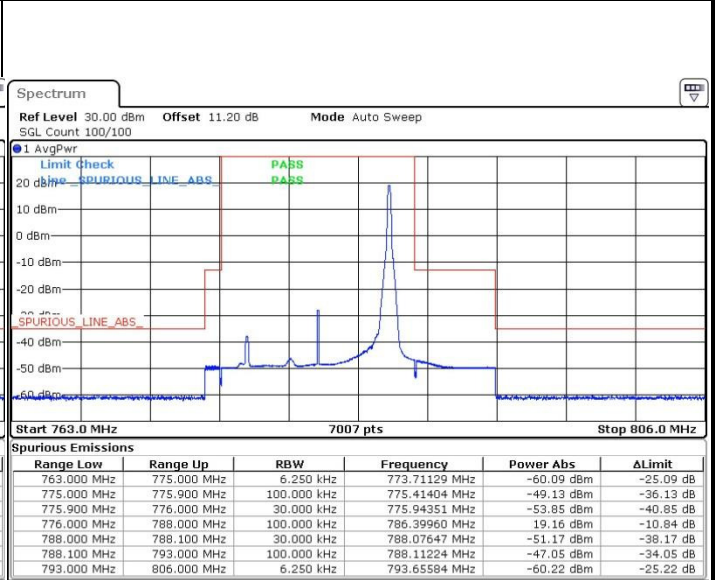
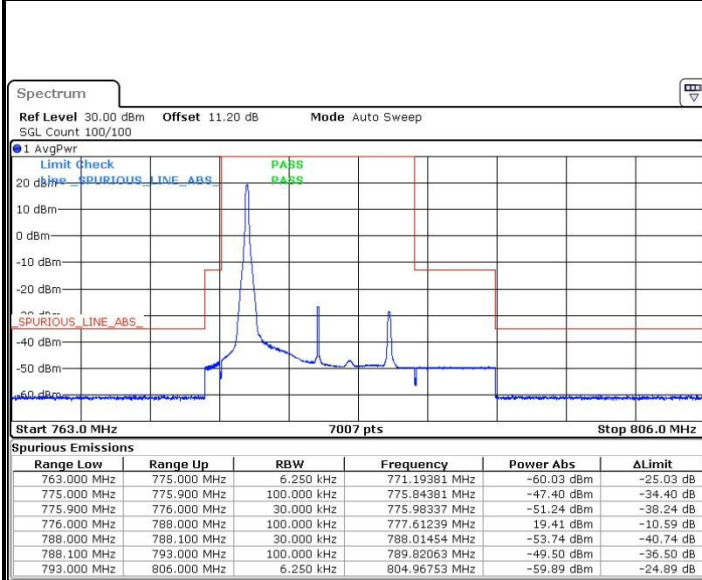
Date: 16.APR.2016 06:04:44



**LTE Band 13 / 10MHz / QPSK**

**Lowest Band Edge / 1 RB**

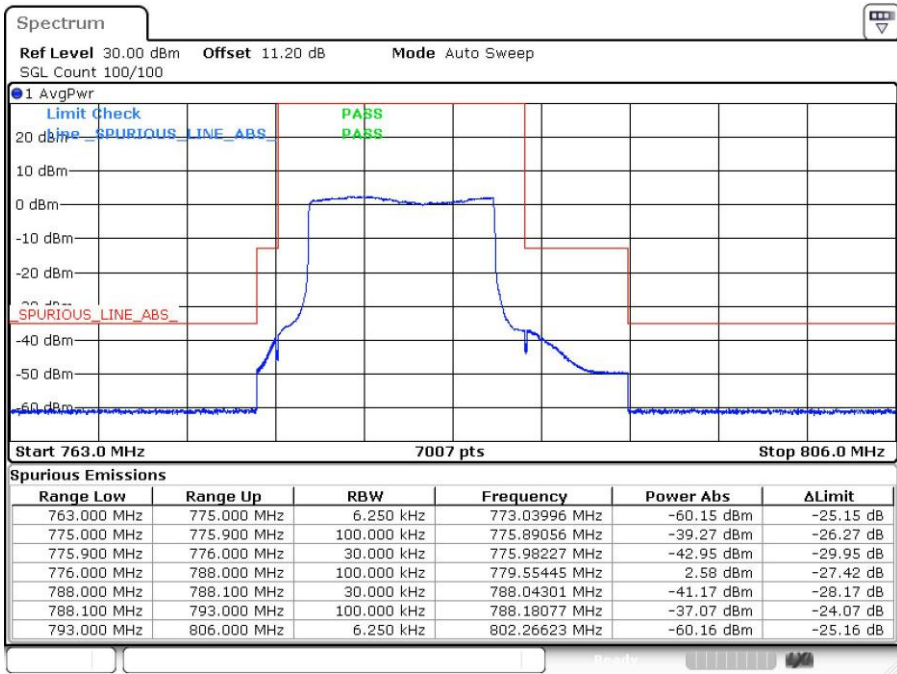
**Highest Band Edge / 1 RB**



Date: 16.APR.2016 06:21:10

Date: 16.APR.2016 06:25:59

**Band Edge / Full RB**



Date: 16.APR.2016 06:27:53