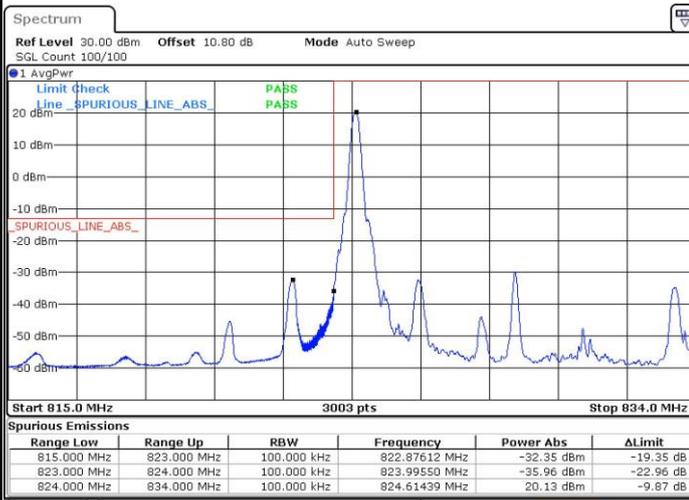




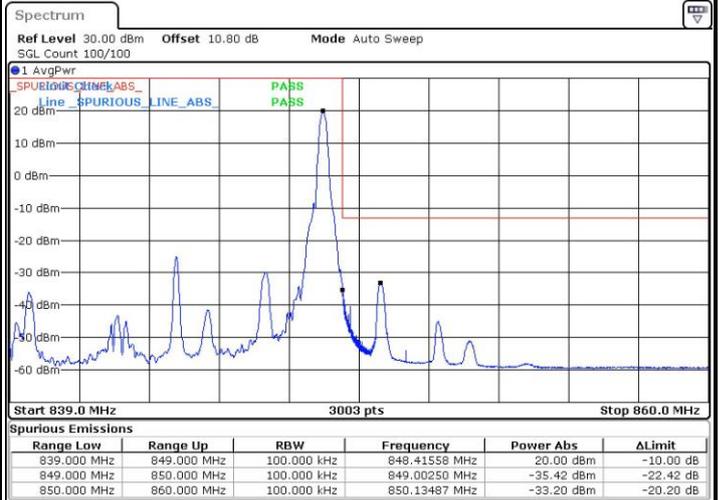
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



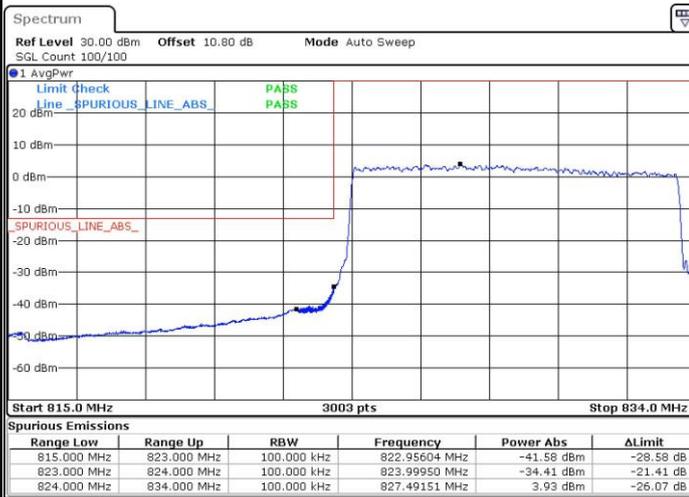
Date: 2 MAY 2017 16:17:15

Highest Band Edge / 1 RB



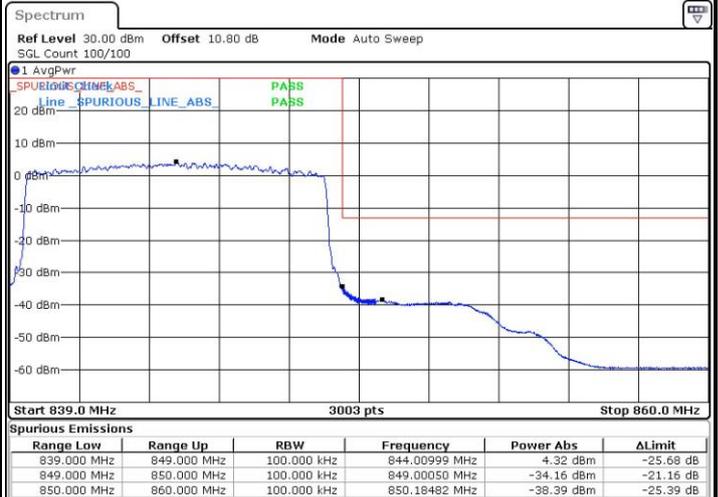
Date: 2 MAY 2017 16:28:49

Lowest Band Edge / Full RB



Date: 2 MAY 2017 16:20:33

Highest Band Edge / Full RB

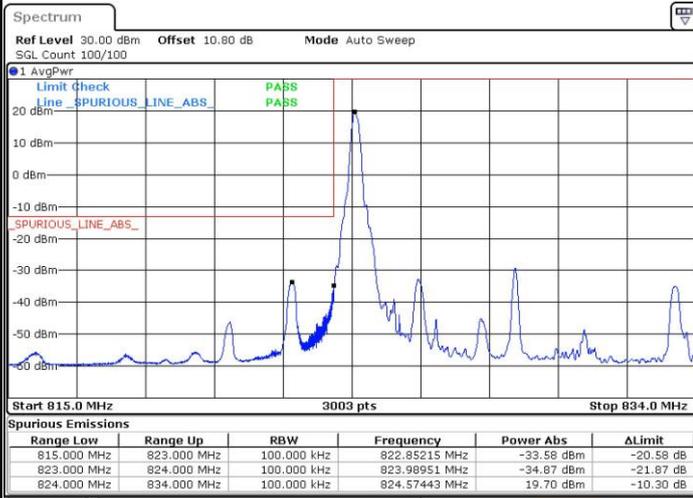


Date: 2 MAY 2017 16:32:07



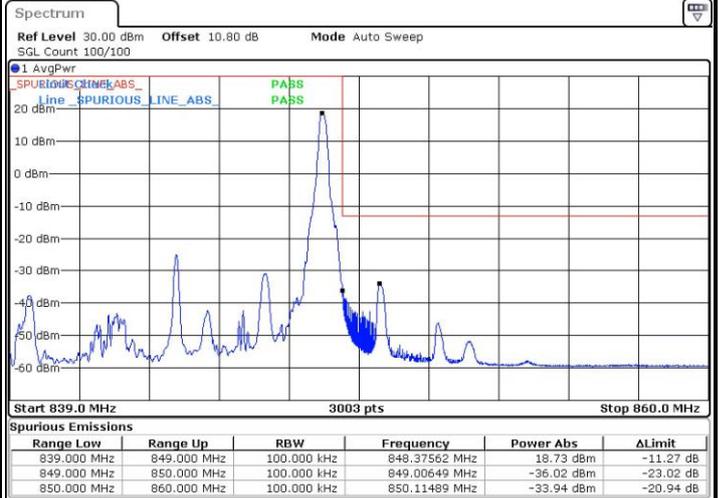
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



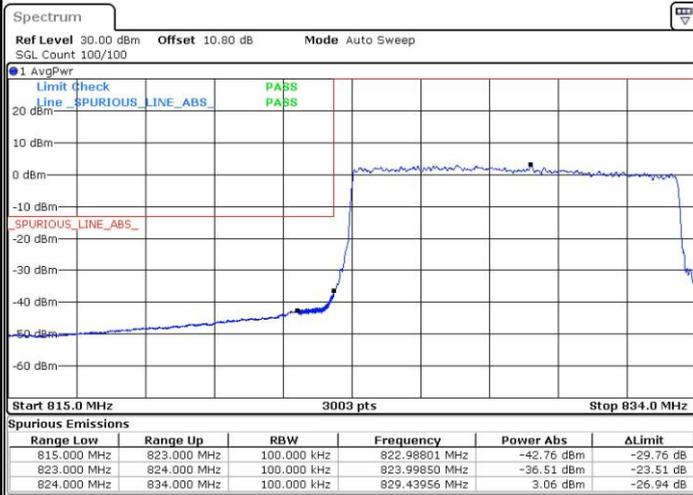
Date: 2 MAY 2017 16:18:54

Highest Band Edge / 1 RB



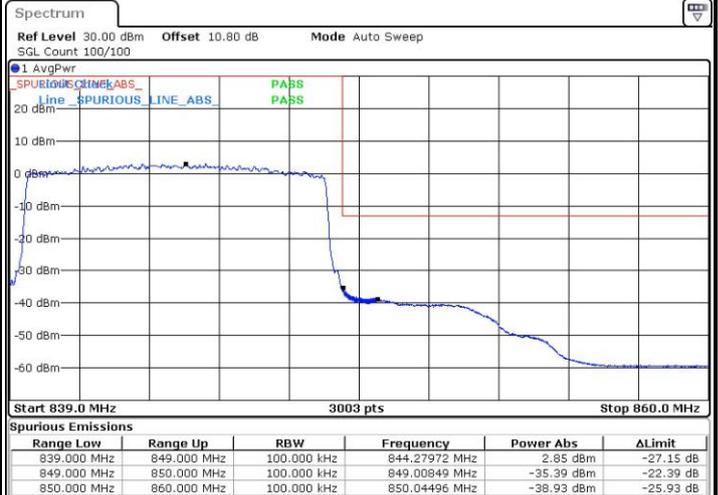
Date: 2 MAY 2017 16:30:28

Lowest Band Edge / Full RB



Date: 2 MAY 2017 16:22:12

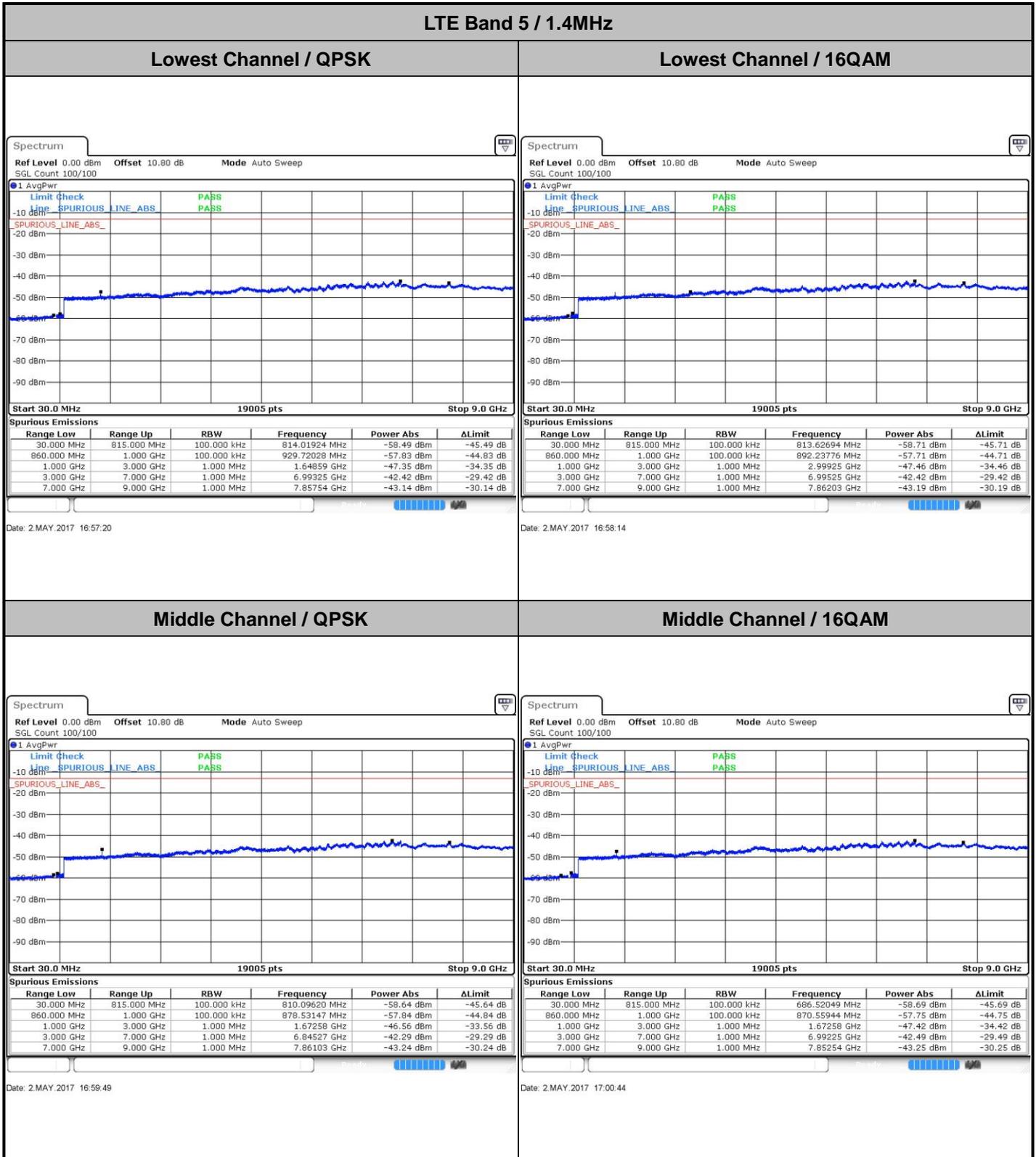
Highest Band Edge / Full RB



Date: 2 MAY 2017 16:33:46



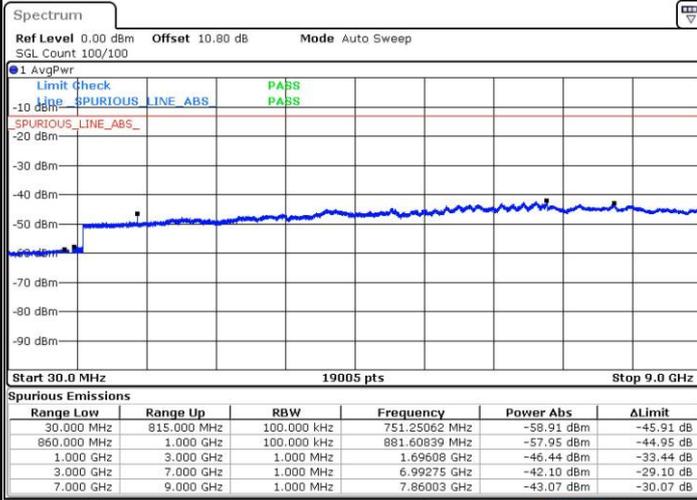
# Conducted Spurious Emission





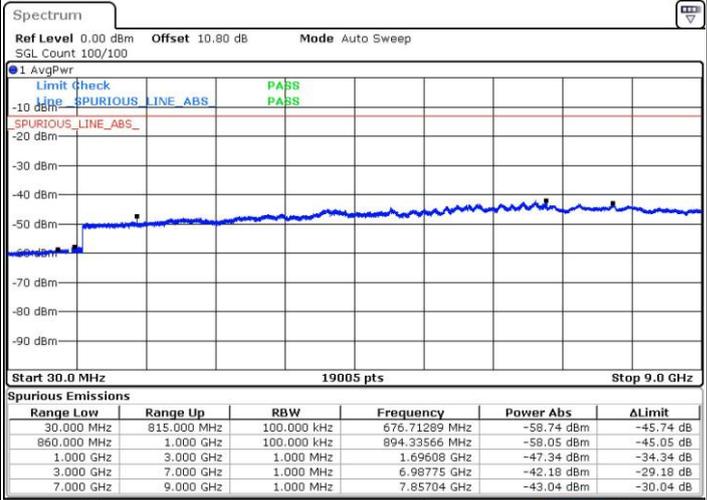
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 2.MAY.2017 17:08:55

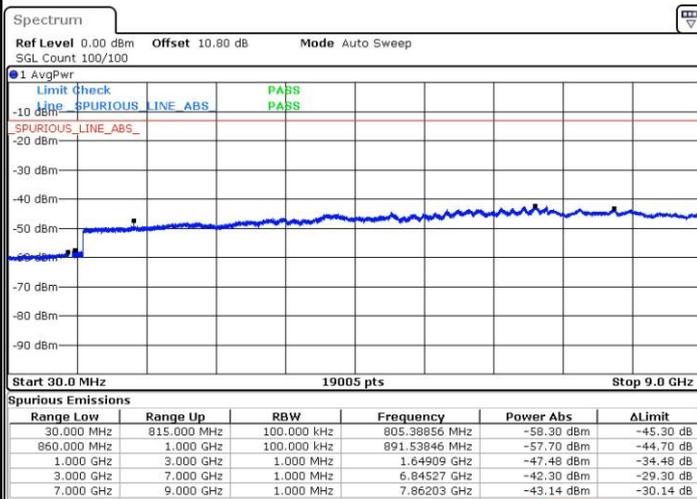
Highest Channel / 16QAM



Date: 2.MAY.2017 17:09:49

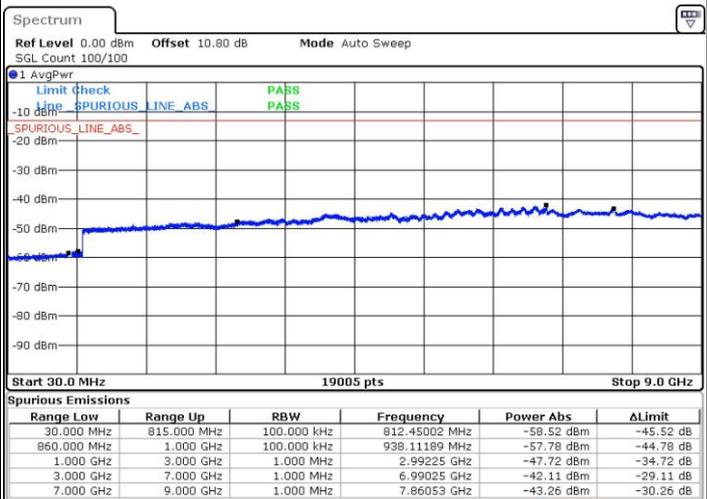
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 2.MAY.2017 15:41:27

Lowest Channel / 16QAM



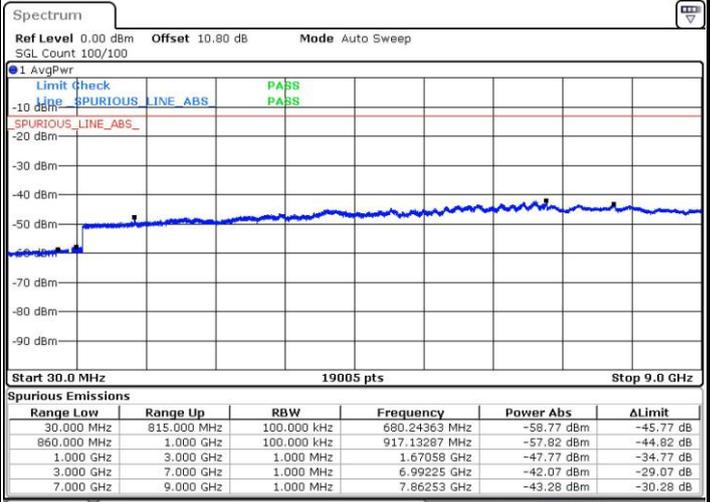
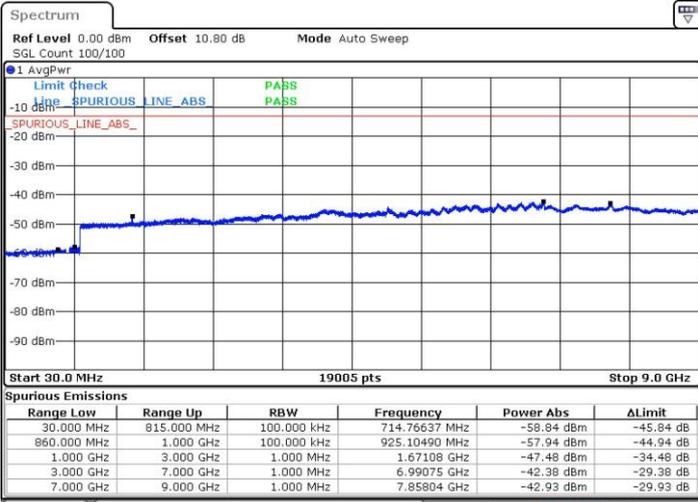
Date: 2.MAY.2017 15:42:21



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

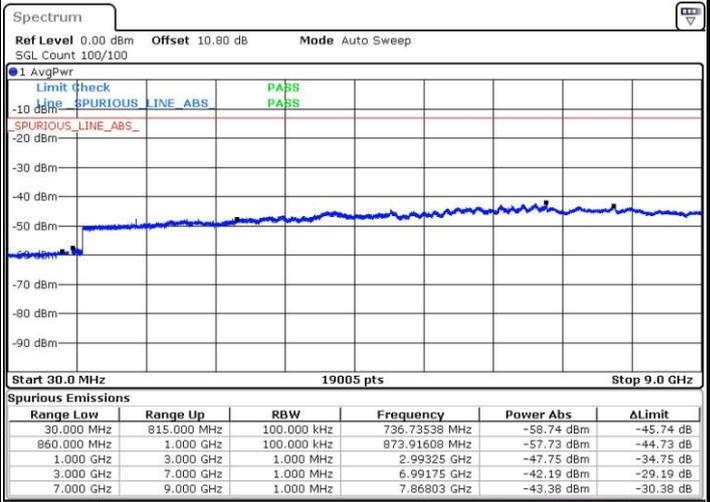
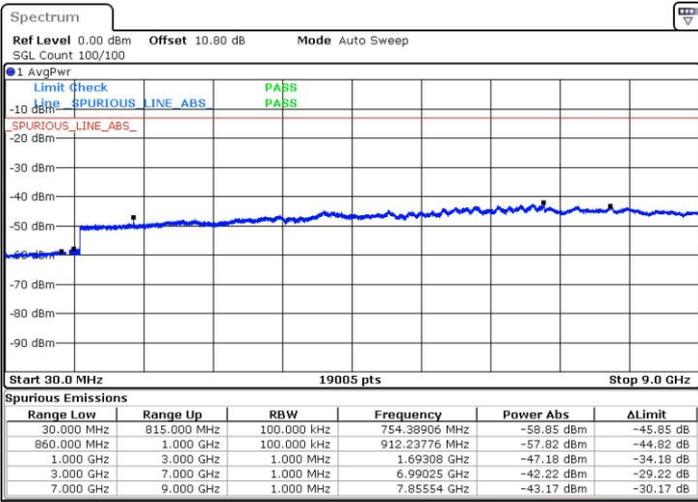


Date: 2.MAY.2017 15:43:57

Date: 2.MAY.2017 15:44:52

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.MAY.2017 15:53:20

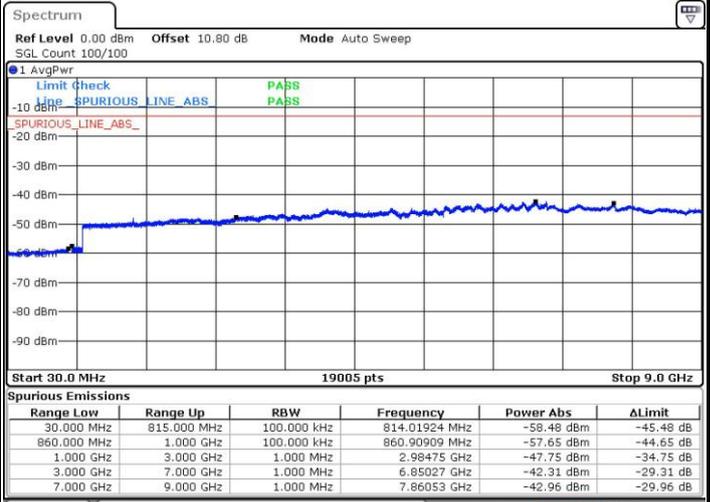
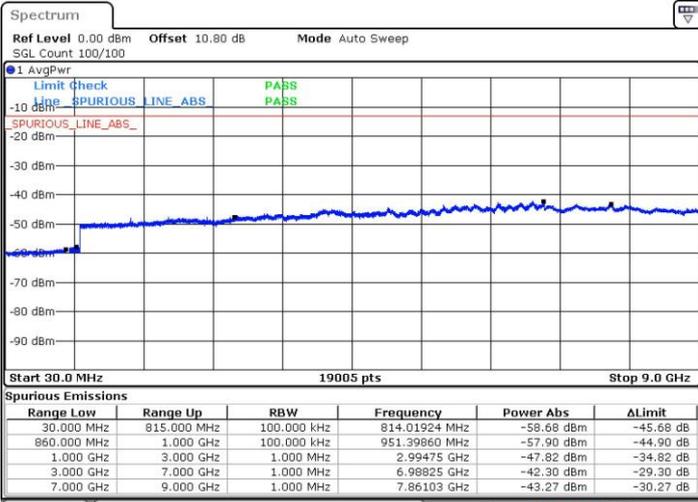
Date: 2.MAY.2017 15:54:14



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

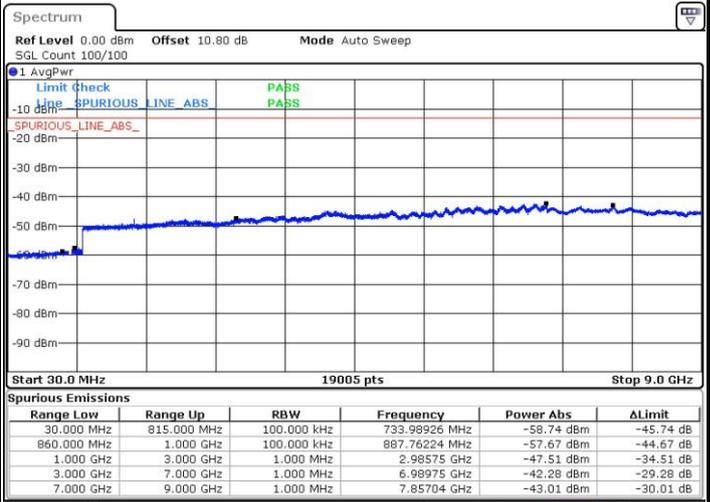
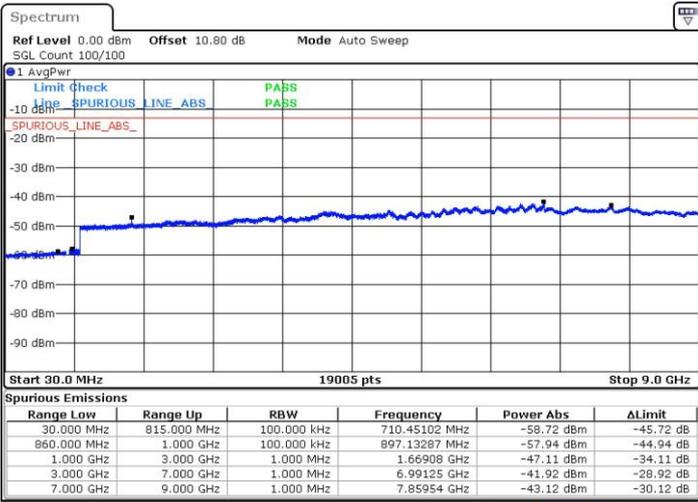


Date: 2.MAY.2017 16:02:26

Date: 2.MAY.2017 16:03:20

Middle Channel / QPSK

Middle Channel / 16QAM



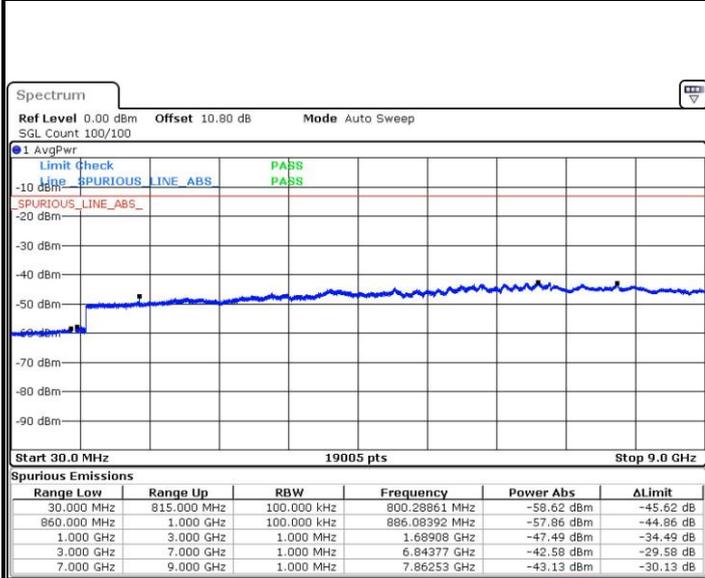
Date: 2.MAY.2017 16:04:55

Date: 2.MAY.2017 16:05:49



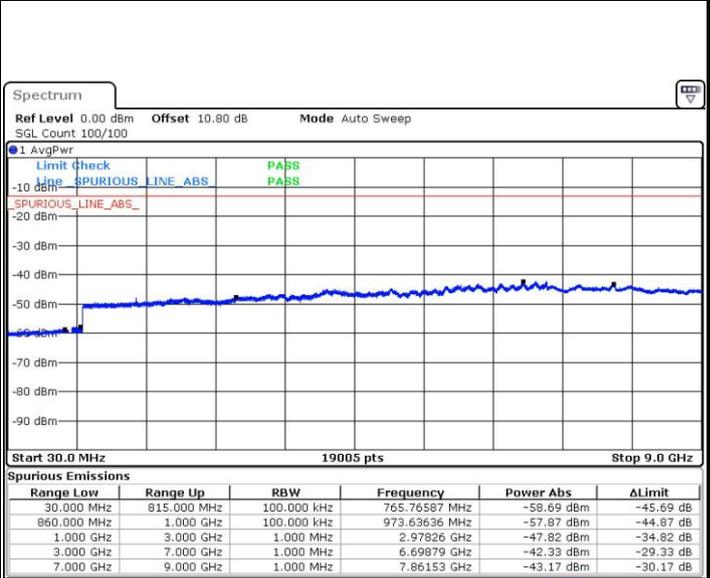
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 2.MAY.2017 16:14:01

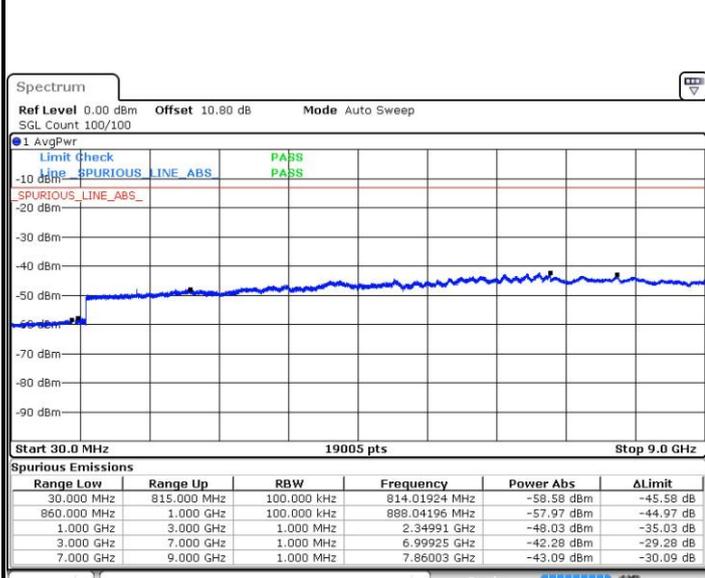
Highest Channel / 16QAM



Date: 2.MAY.2017 16:14:55

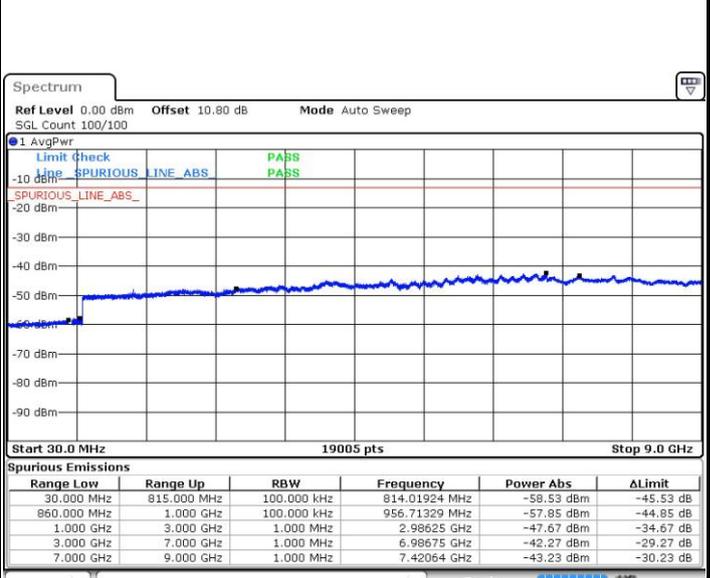
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 2.MAY.2017 16:23:07

Lowest Channel / 16QAM

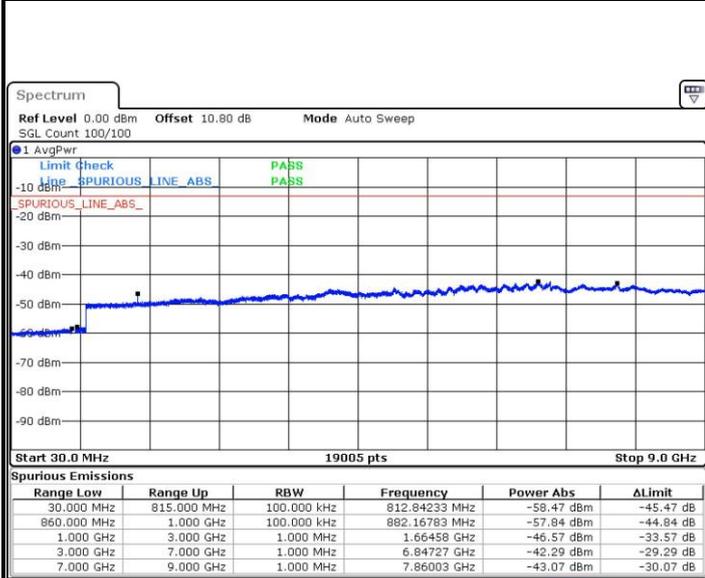


Date: 2.MAY.2017 16:24:01



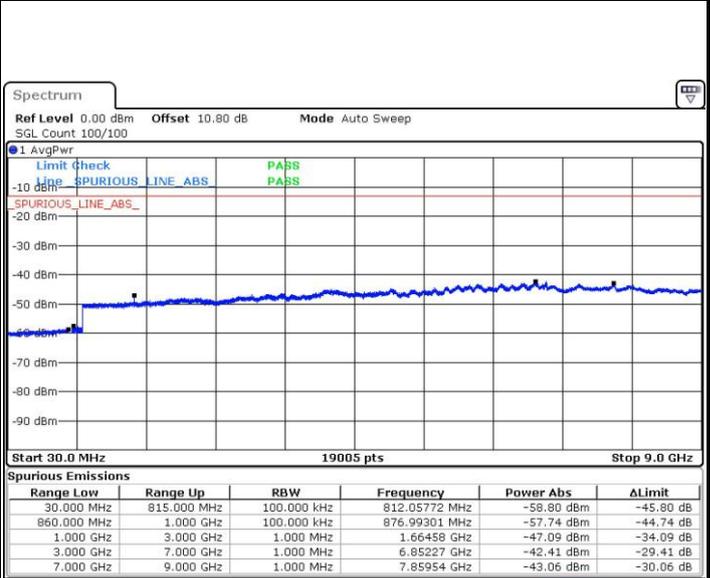
LTE Band 5 / 10MHz

Middle Channel / QPSK



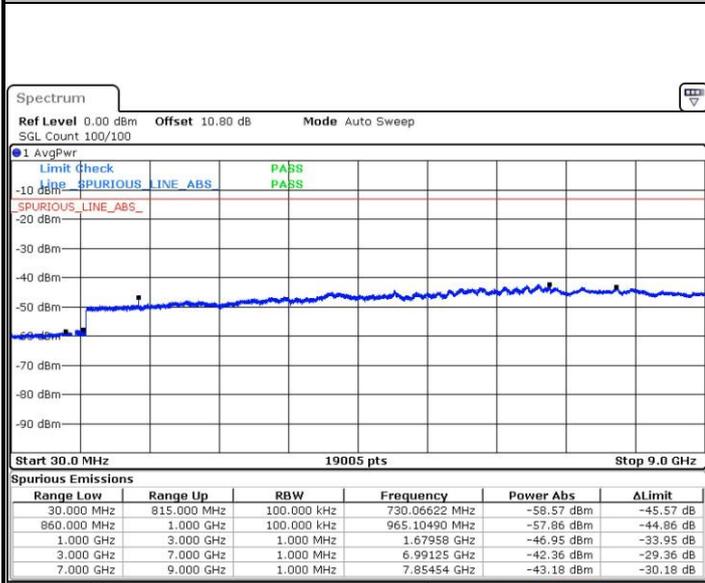
Date: 2 MAY 2017 16:25:36

Middle Channel / 16QAM



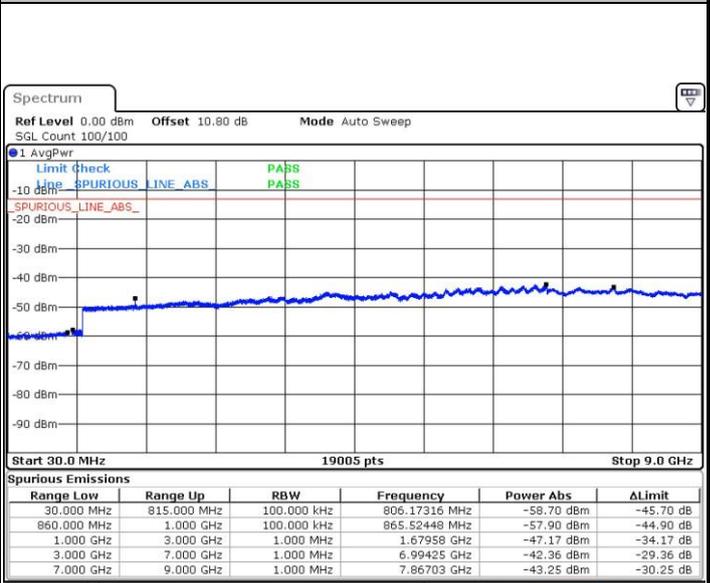
Date: 2 MAY 2017 16:26:30

Highest Channel / QPSK



Date: 2 MAY 2017 16:34:41

Highest Channel / 16QAM



Date: 2 MAY 2017 16:35:35



### 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	0.0111	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0100	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0114	
-20	Normal Voltage	0.0110	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

**Note:**

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.0 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 13

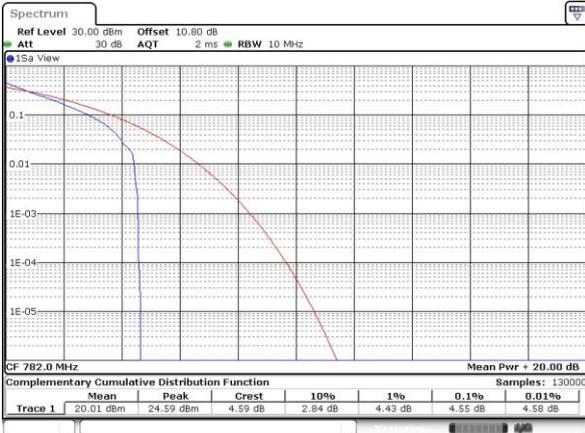
## Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	<b>PASS</b>
Middle CH	4.55	4.96	5.54	5.86	
Highest CH	-	-	-	-	



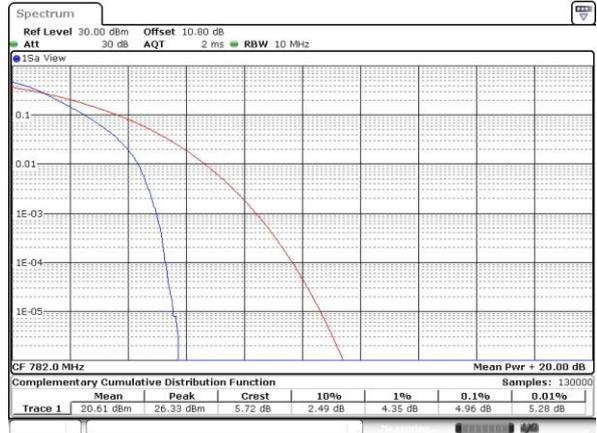
LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 2 MAY 2017 15:31:15

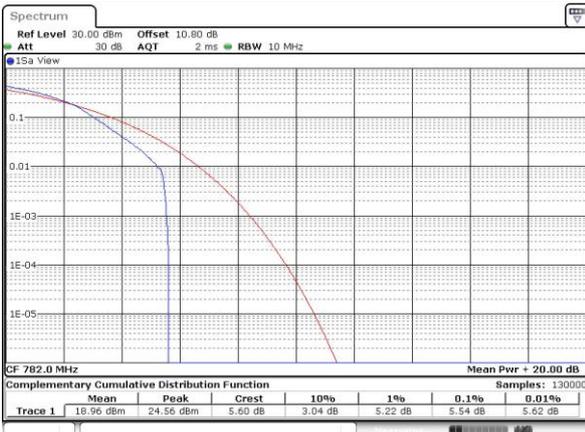
Middle Channel / Full RB



Date: 2 MAY 2017 15:31:25

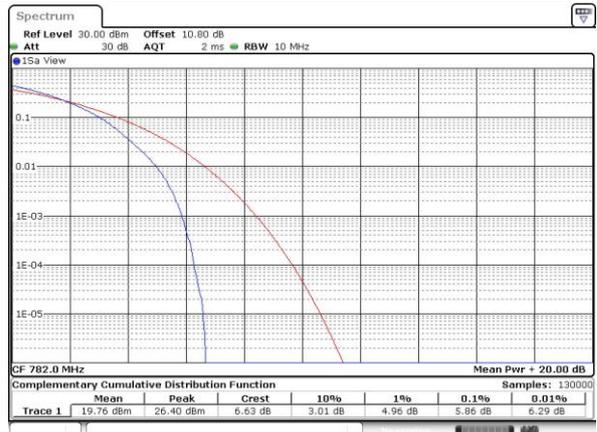
LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 2 MAY 2017 15:30:45

Middle Channel / Full RB



Date: 2 MAY 2017 15:31:05



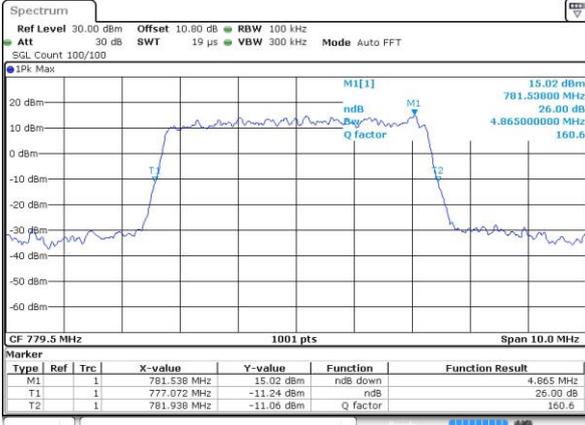
**26dB Bandwidth**

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	-	-	-	-	4.865	4.895	-	-	-	-	-	-
Middle CH	-	-	-	-	4.895	4.835	9.75	9.79	-	-	-	-
Highest CH	-	-	-	-	4.925	4.985	-	-	-	-	-	-



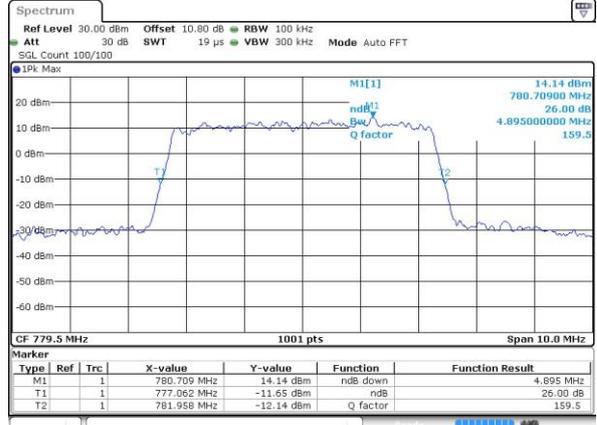
LTE Band 13

Lowest Channel / 5MHz / QPSK



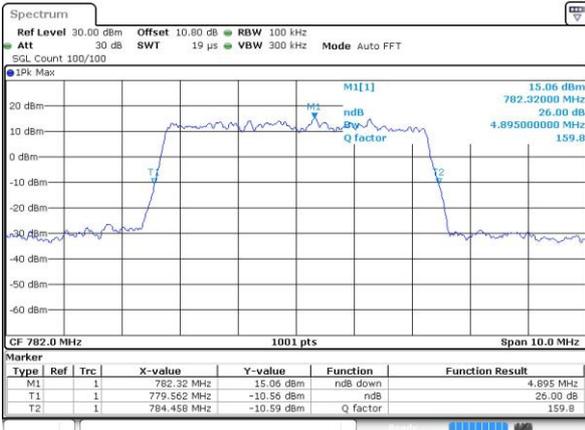
Date: 2 MAY 2017 14:07:15

Lowest Channel / 5MHz / 16QAM



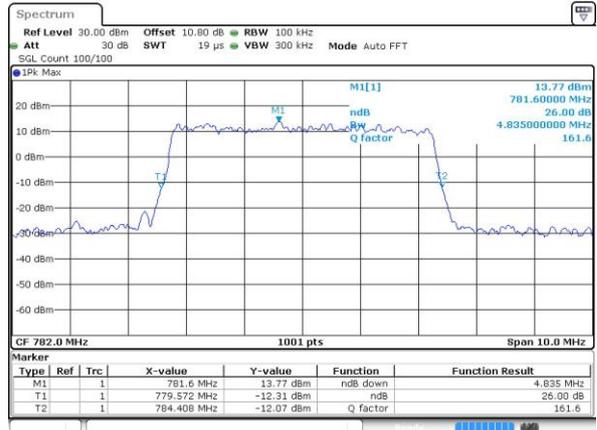
Date: 2 MAY 2017 14:07:05

Middle Channel / 5MHz / QPSK



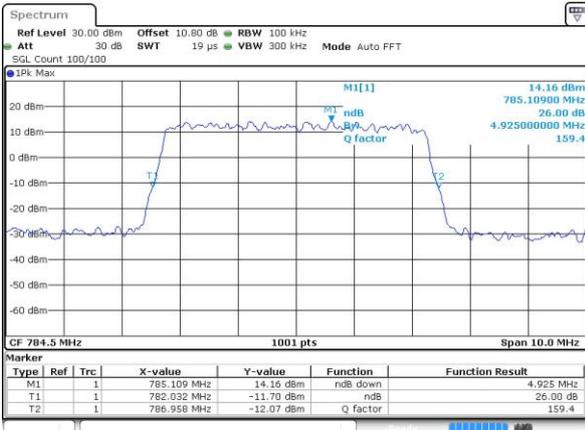
Date: 2 MAY 2017 14:17:38

Middle Channel / 5MHz / 16QAM



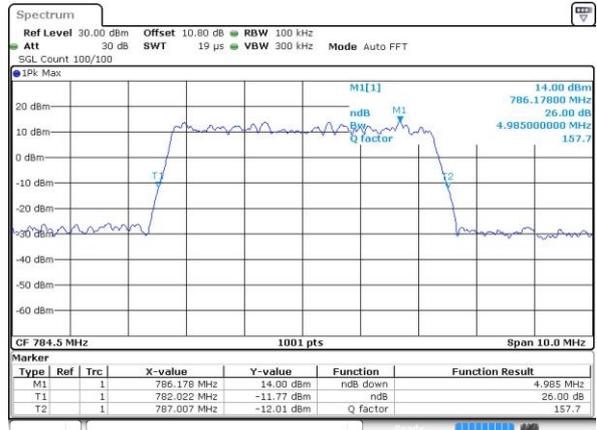
Date: 2 MAY 2017 14:17:49

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2017 14:18:51

Highest Channel / 5MHz / 16QAM

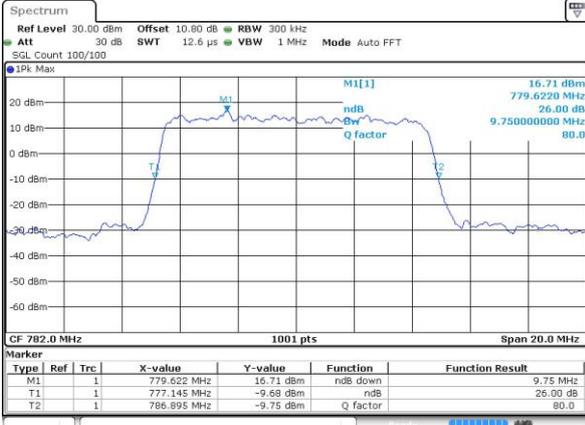


Date: 2 MAY 2017 14:18:41



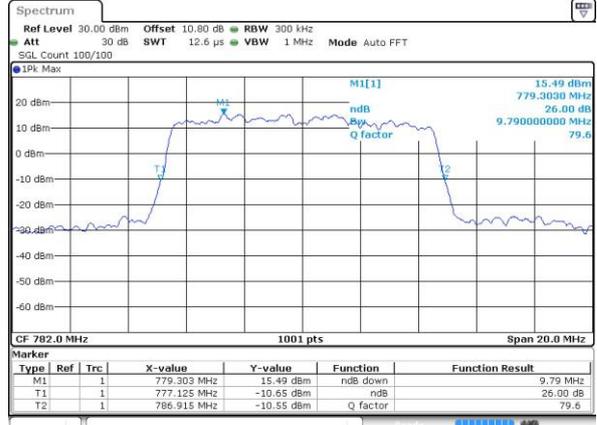
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2 MAY 2017 14:27:59

Middle Channel / 10MHz / 16QAM



Date: 2 MAY 2017 14:27:48



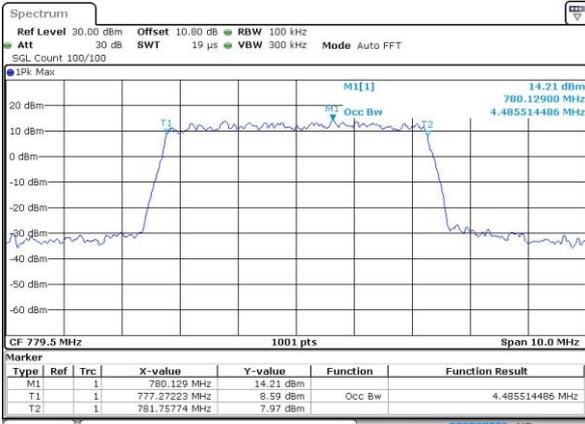
### Occupied Bandwidth

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	-	-	-	-	4.49	4.46	-	-	-	-	-	-
Middle CH	-	-	-	-	4.47	4.49	8.99	8.97	-	-	-	-
Highest CH	-	-	-	-	4.5	4.51	-	-	-	-	-	-



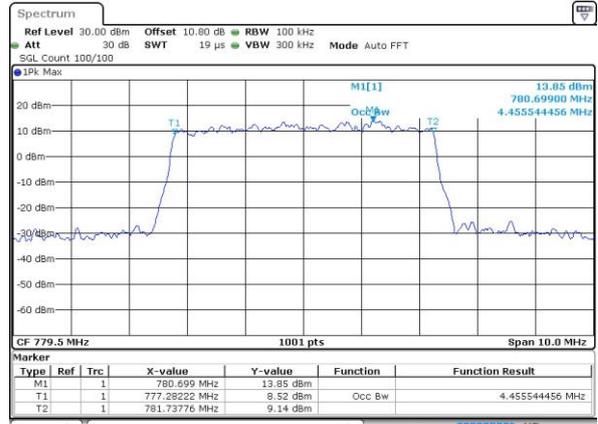
LTE Band 13

Lowest Channel / 5MHz / QPSK



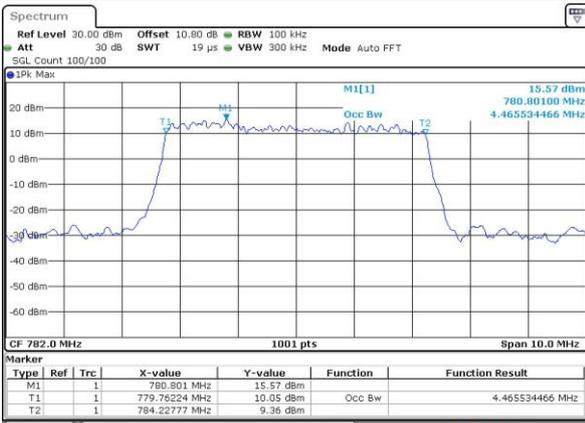
Date: 2 MAY 2017 14:06:44

Lowest Channel / 5MHz / 16QAM



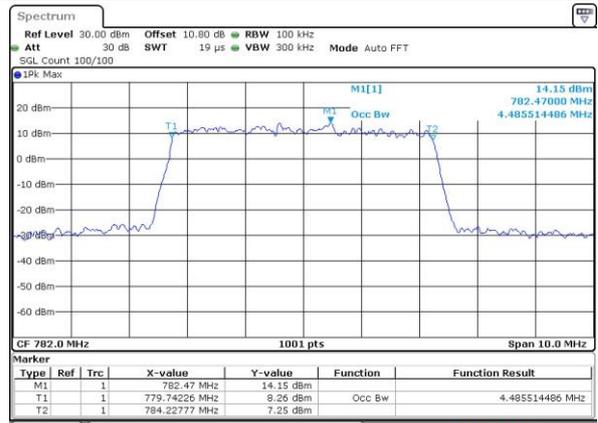
Date: 2 MAY 2017 14:06:55

Middle Channel / 5MHz / QPSK



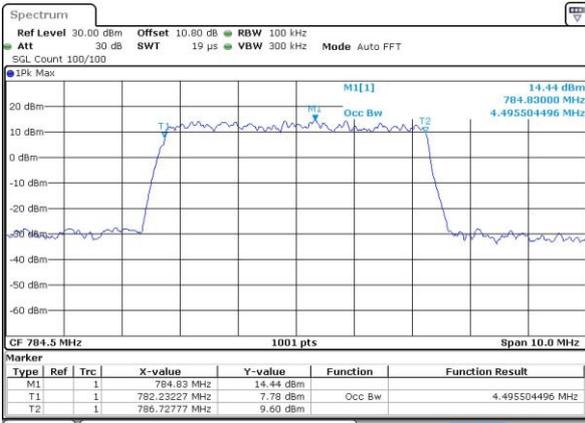
Date: 2 MAY 2017 14:18:10

Middle Channel / 5MHz / 16QAM



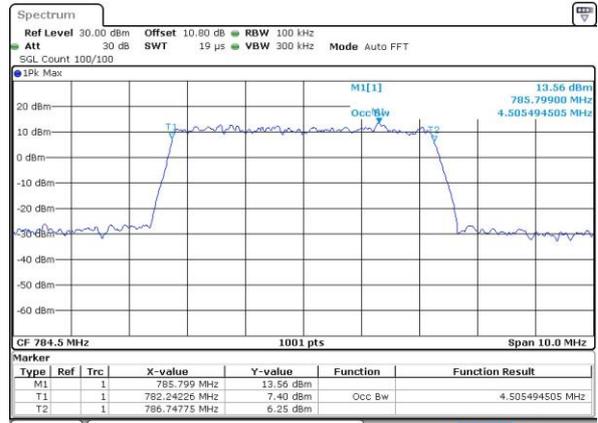
Date: 2 MAY 2017 14:18:00

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2017 14:18:20

Highest Channel / 5MHz / 16QAM

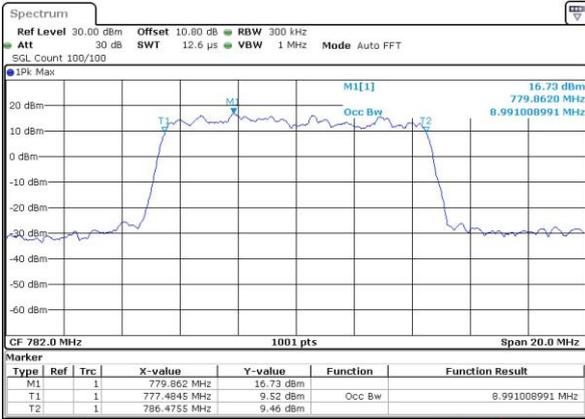


Date: 2 MAY 2017 14:18:31



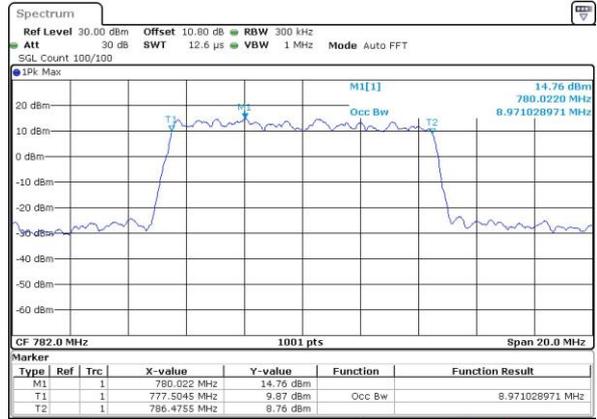
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2 MAY 2017 14:27:28

Middle Channel / 10MHz / 16QAM



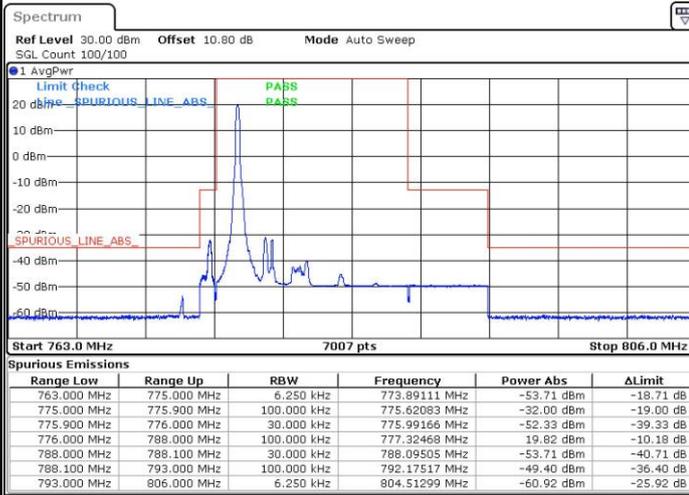
Date: 2 MAY 2017 14:27:38



# Conducted Band Edge

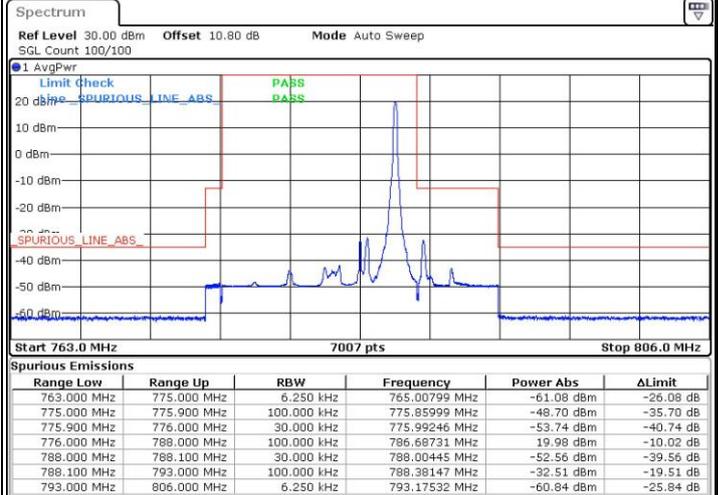
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



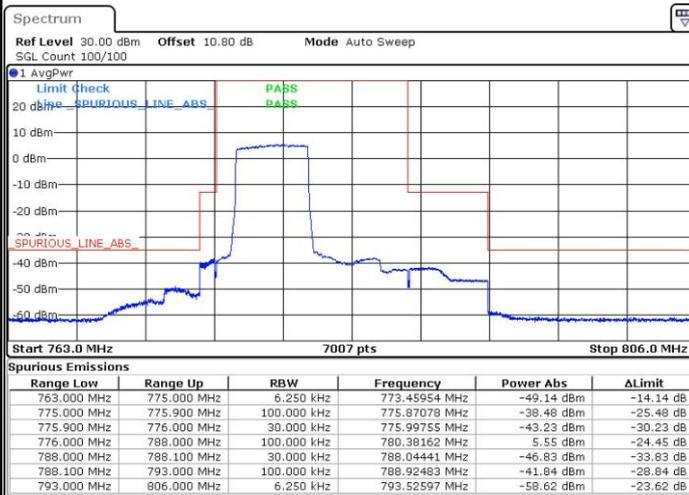
Date: 2 MAY 2017 14:13:52

### Highest Band Edge / 1 RB



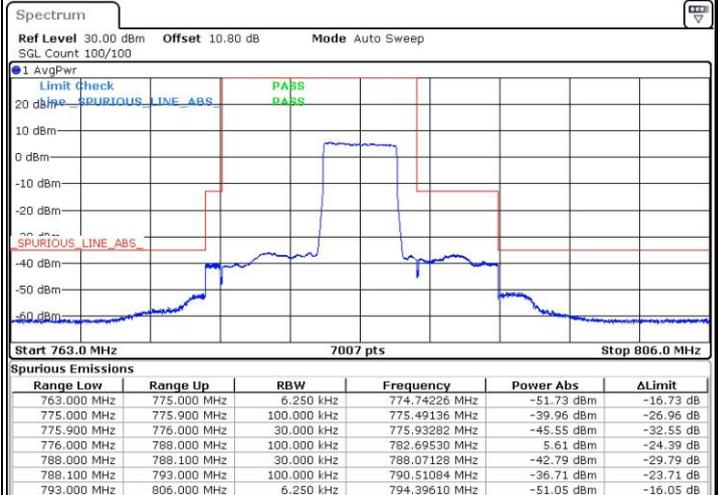
Date: 2 MAY 2017 14:25:29

### Lowest Band Edge / Full RB



Date: 2 MAY 2017 14:08:54

### Highest Band Edge / Full RB



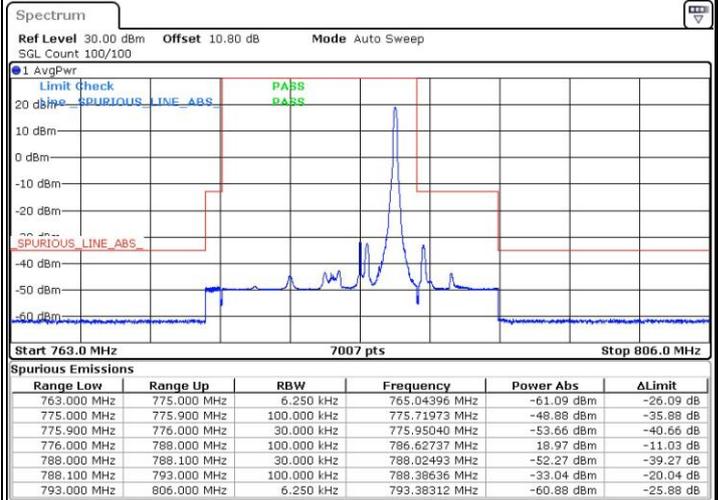
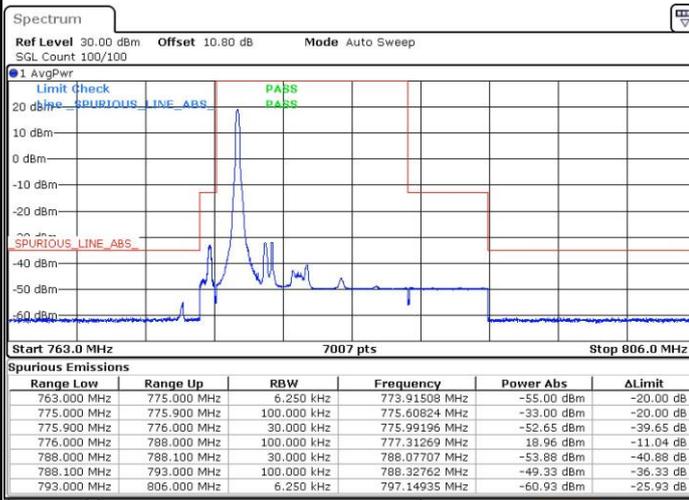
Date: 2 MAY 2017 14:20:30



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

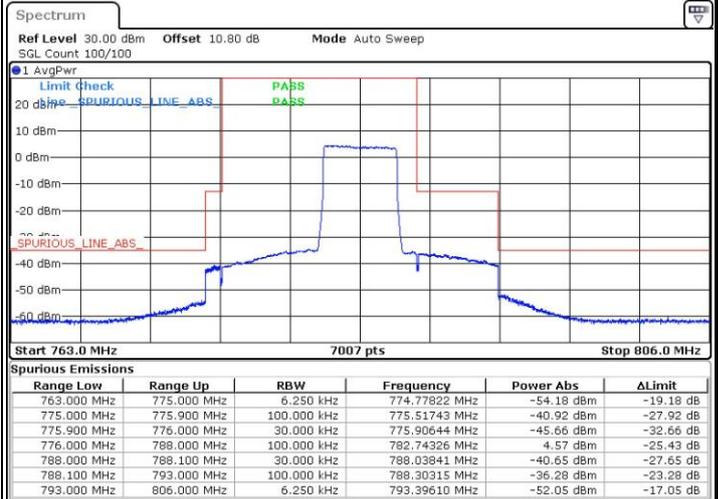
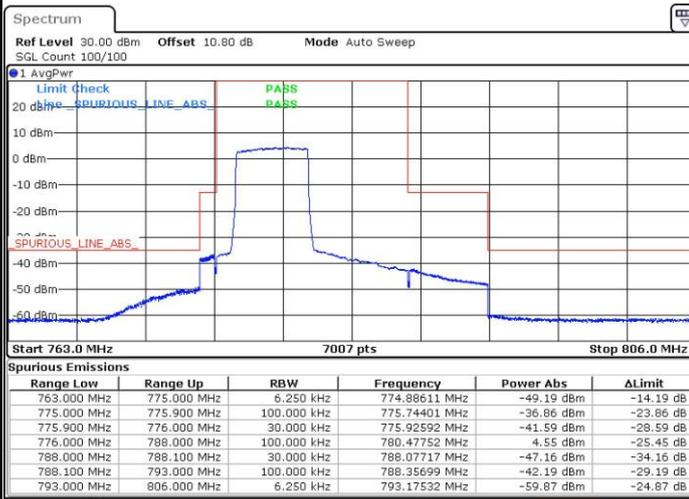


Date: 2 MAY 2017 14:12:13

Date: 2 MAY 2017 14:23:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2 MAY 2017 14:10:33

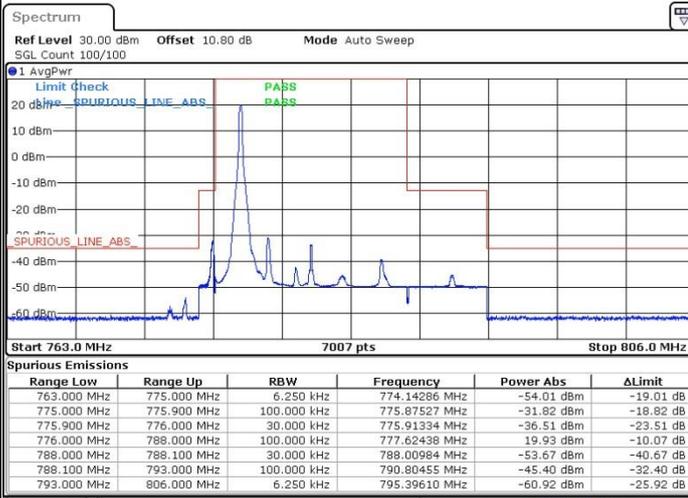
Date: 2 MAY 2017 14:22:10



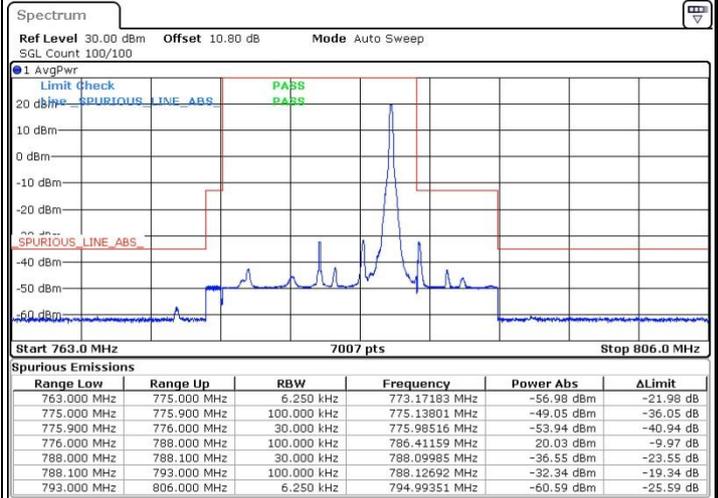
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

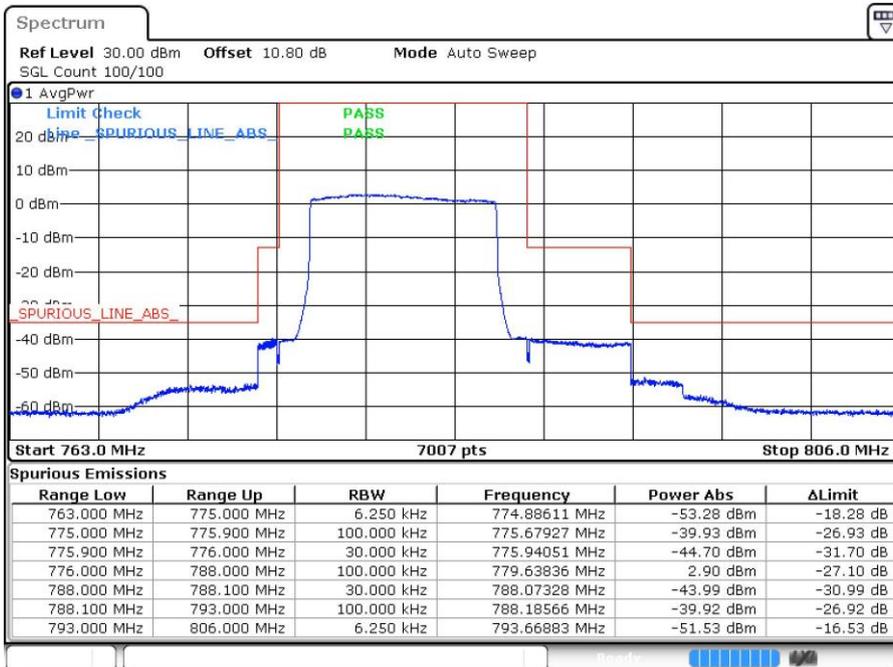


Date: 2 MAY 2017 14:34:35



Date: 2 MAY 2017 14:36:15

Band Edge / Full RB



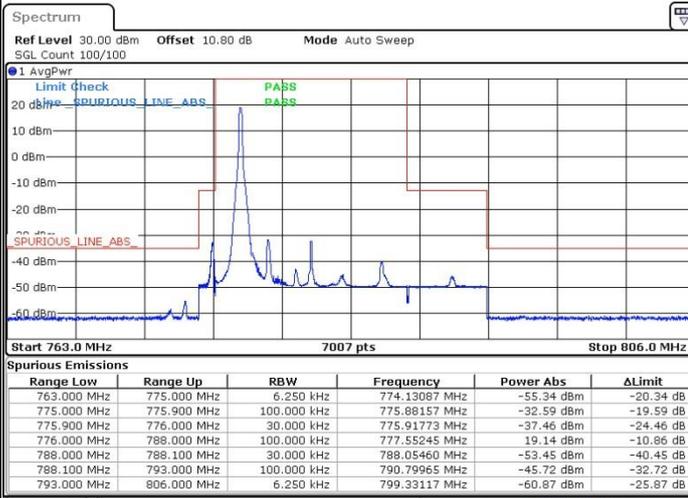
Date: 2 MAY 2017 14:29:37



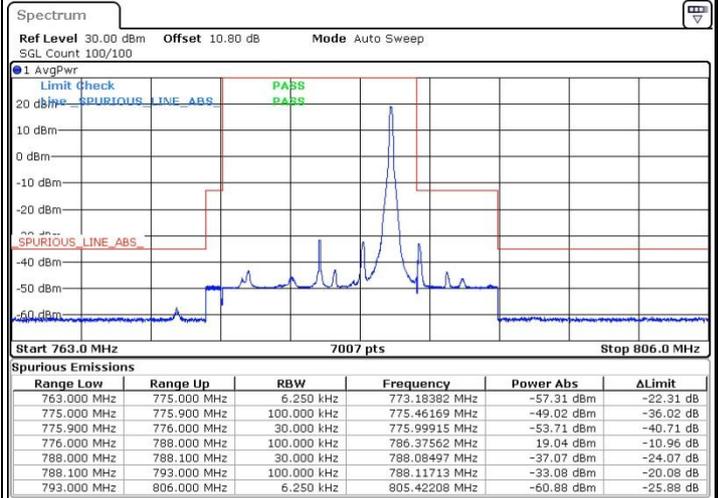
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

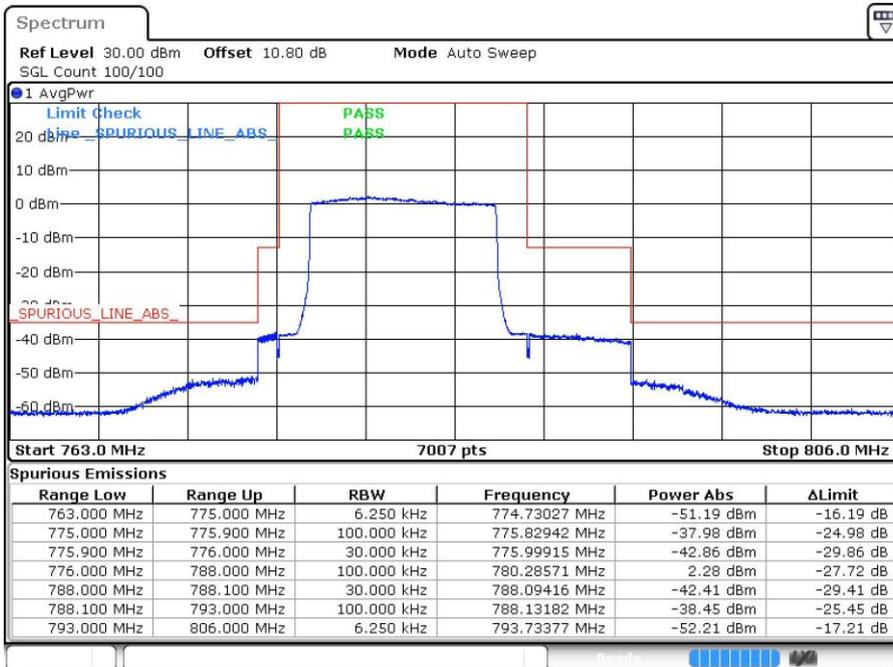


Date: 2 MAY 2017 14:32:56



Date: 2 MAY 2017 14:37:54

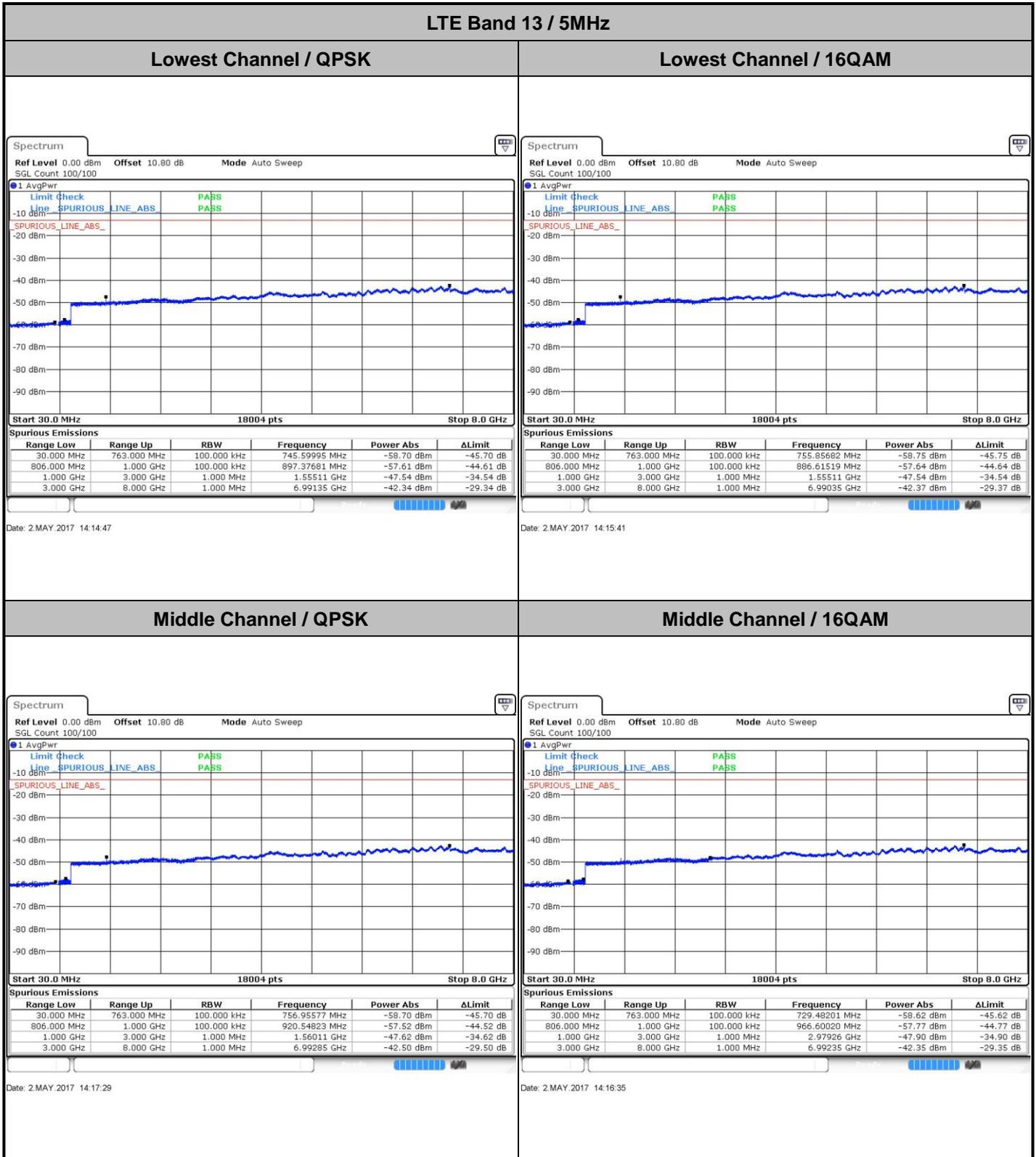
Band Edge / Full RB



Date: 2 MAY 2017 14:31:17



# Conducted Spurious Emission

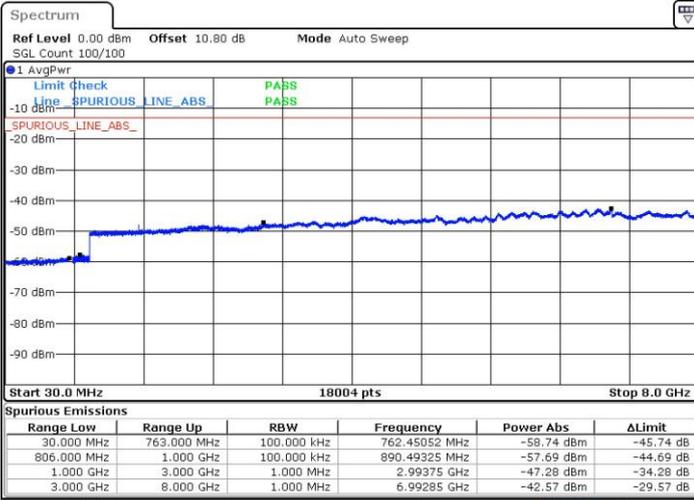




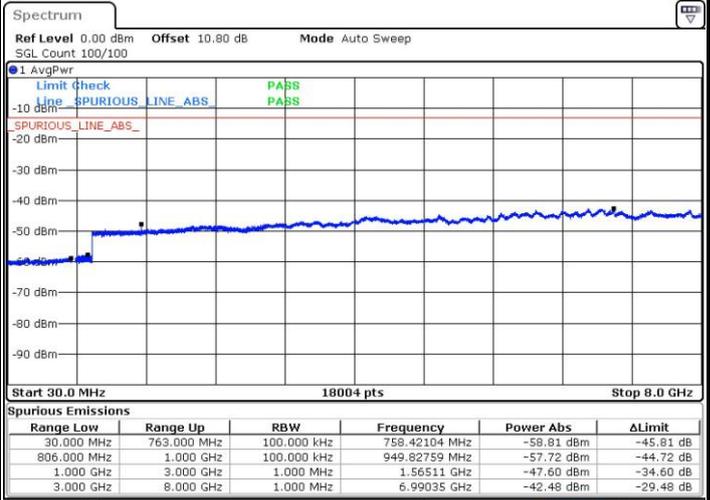
LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.MAY.2017 14:26:23

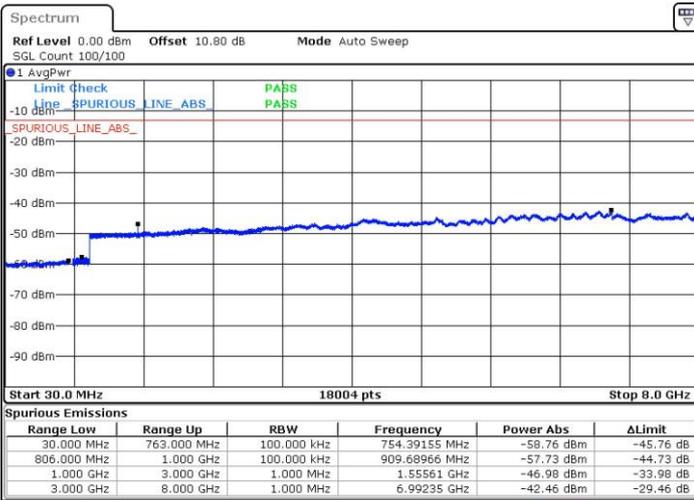


Date: 2.MAY.2017 14:27:17

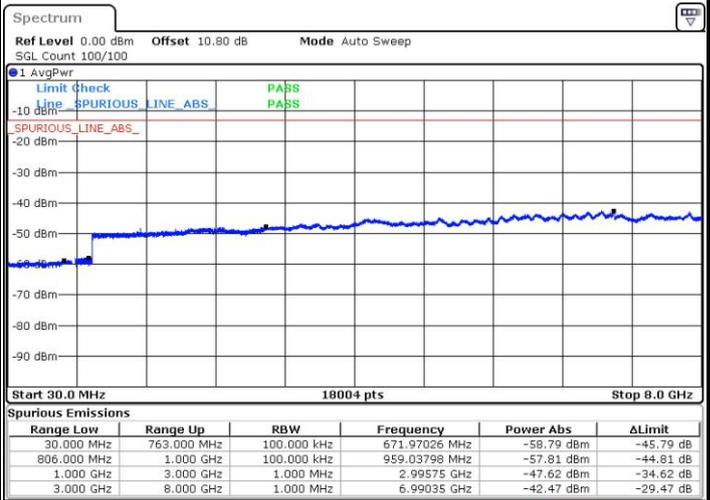
LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 2.MAY.2017 14:39:43



Date: 2.MAY.2017 14:38:49