



LTE Band 13

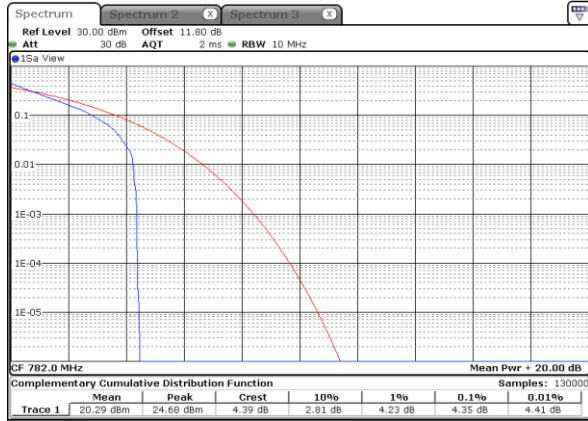
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.35	5.45	5.62	6.32	
Highest CH	-	-	-	-	



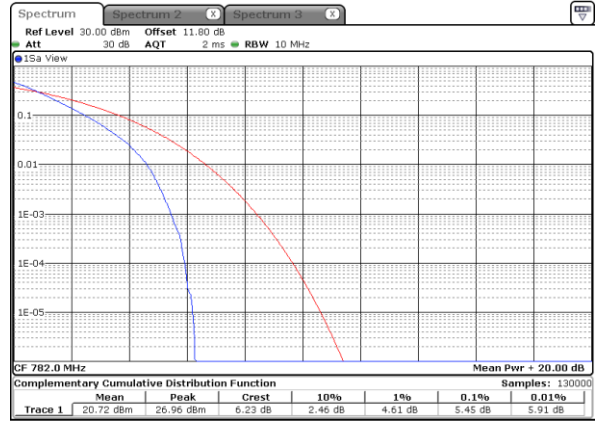
LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 14.JAN.2018 23:36:04

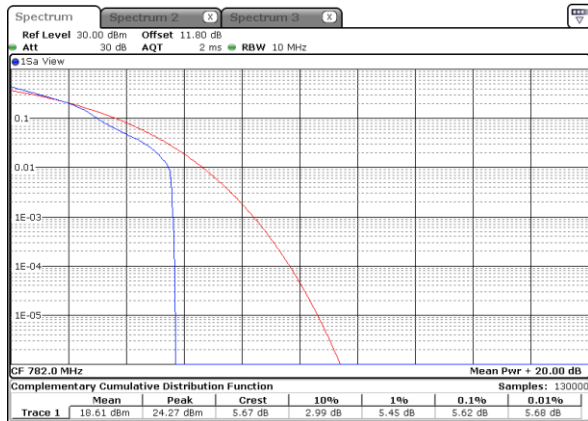
Middle Channel / Full RB



Date: 14.JAN.2018 23:36:14

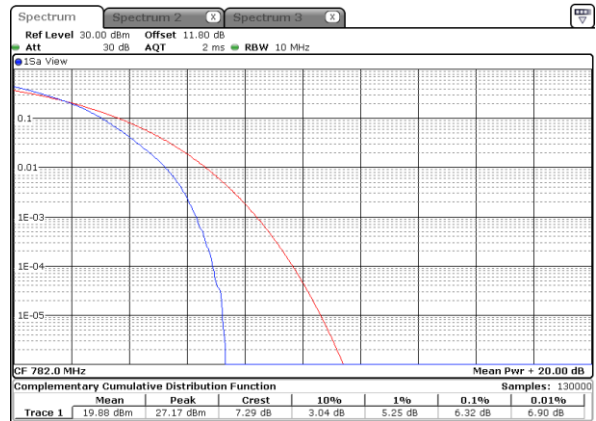
LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 14.JAN.2018 23:35:43

Middle Channel / Full RB



Date: 14.JAN.2018 23:35:54

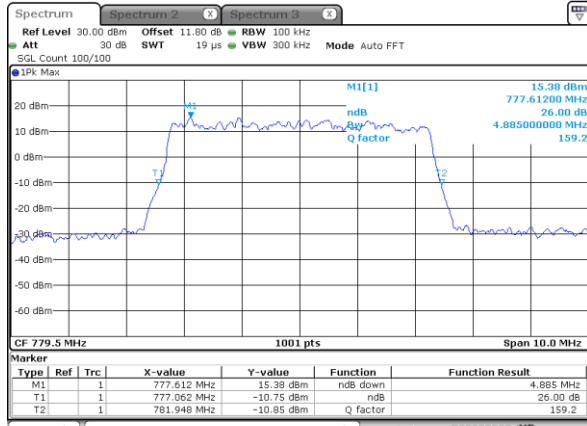
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.885	4.955	-	-	-	-	-	-
Middle CH	-	-	-	-	4.985	4.885	9.93	9.69	-	-	-	-
Highest CH	-	-	-	-	4.955	4.955	-	-	-	-	-	-



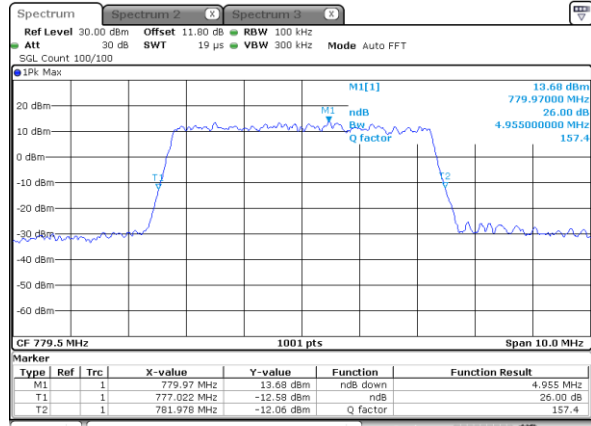
LTE Band 13

Lowest Channel / 5MHz / QPSK



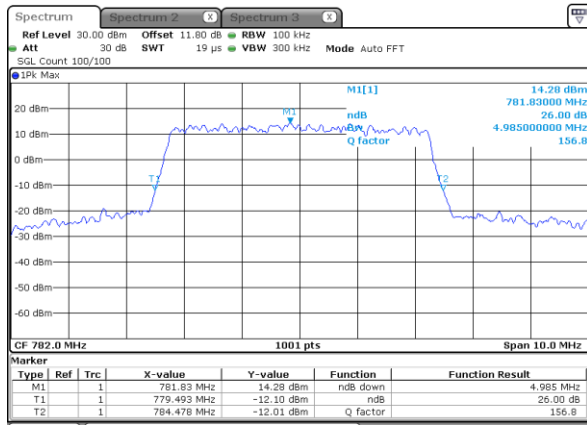
Date: 14.JAN.2018 23:01:30

Lowest Channel / 5MHz / 16QAM



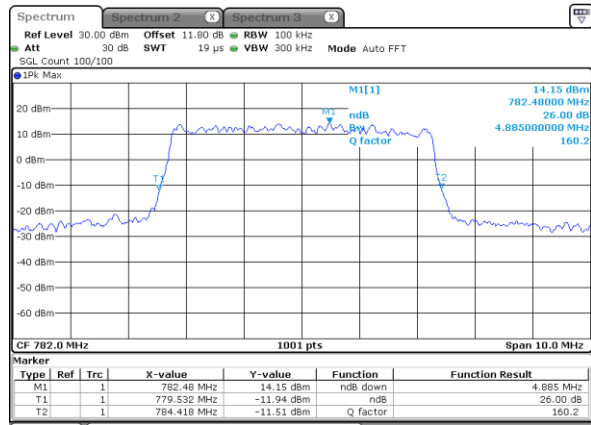
Date: 14.JAN.2018 23:01:26

Middle Channel / 5MHz / QPSK



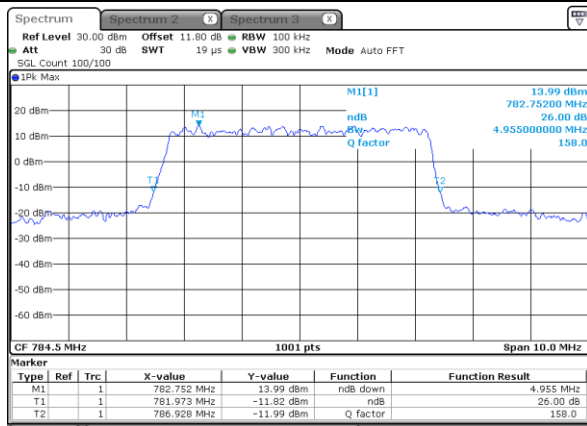
Date: 14.JAN.2018 23:12:07

Middle Channel / 5MHz / 16QAM



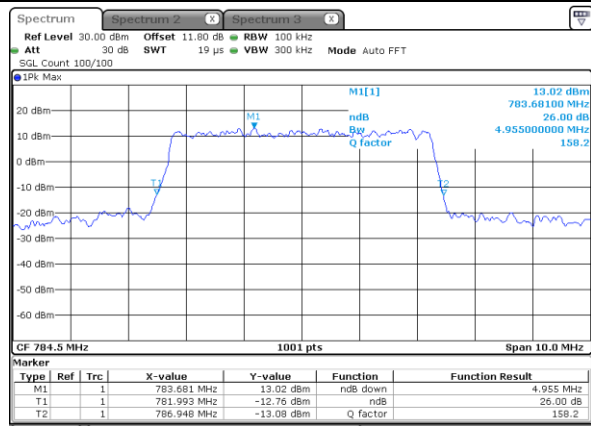
Date: 14.JAN.2018 23:12:18

Highest Channel / 5MHz / QPSK



Date: 14.JAN.2018 23:13:27

Highest Channel / 5MHz / 16QAM

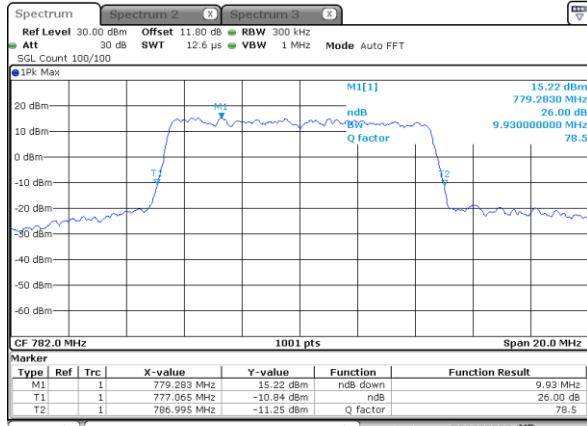


Date: 14.JAN.2018 23:13:15



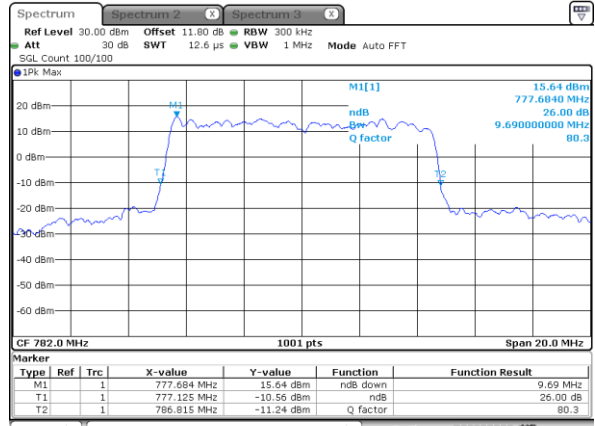
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 14.JAN.2018 23:22:40

Middle Channel / 10MHz / 16QAM



Date: 14.JAN.2018 23:22:28

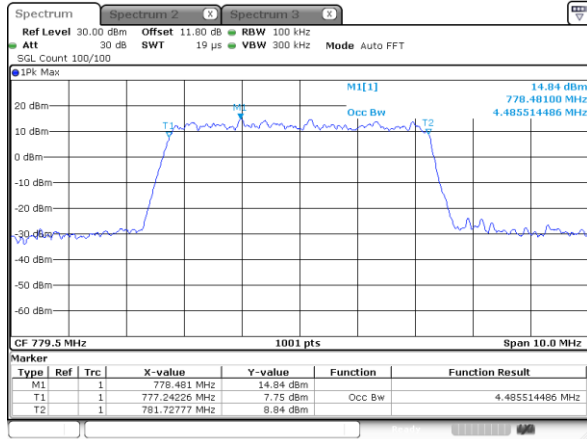
**Occupied Bandwidth**

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.46	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	4.50	9.11	9.05	-	-	-	-
Highest CH	-	-	-	-	4.50	4.51	-	-	-	-	-	-

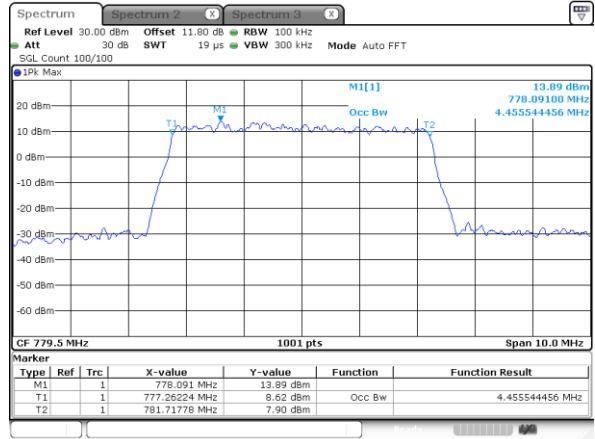


LTE Band 13

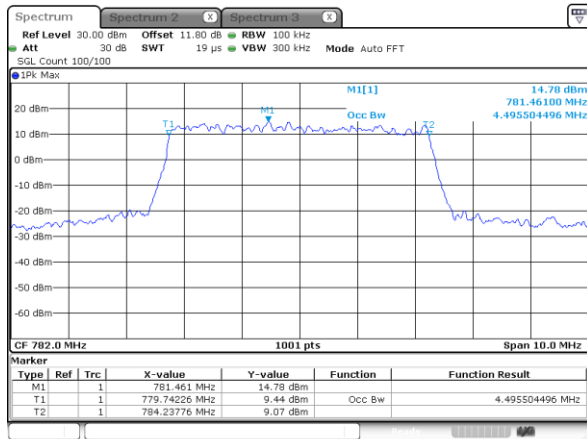
Lowest Channel / 5MHz / QPSK



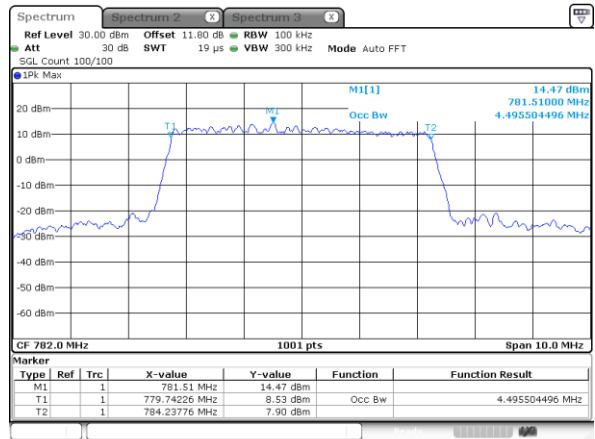
Lowest Channel / 5MHz / 16QAM



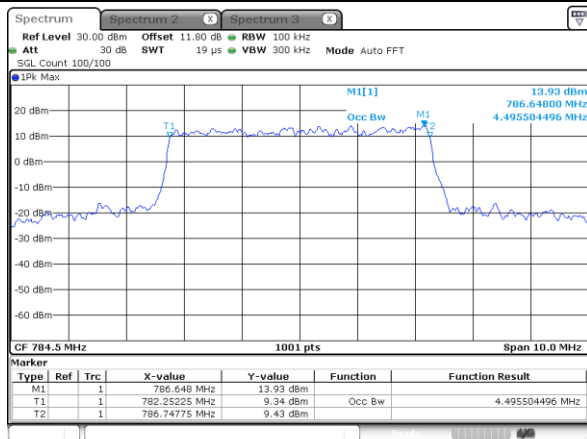
Middle Channel / 5MHz / QPSK



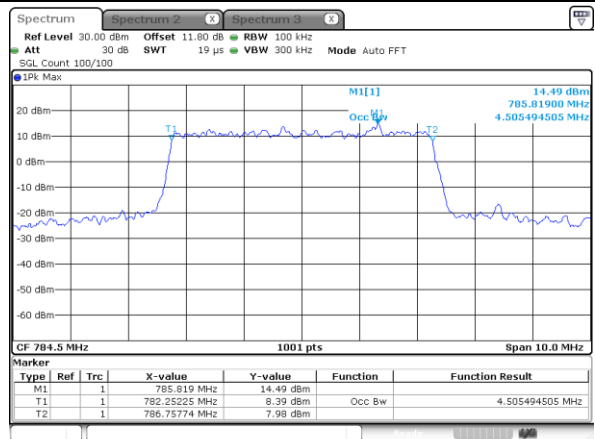
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



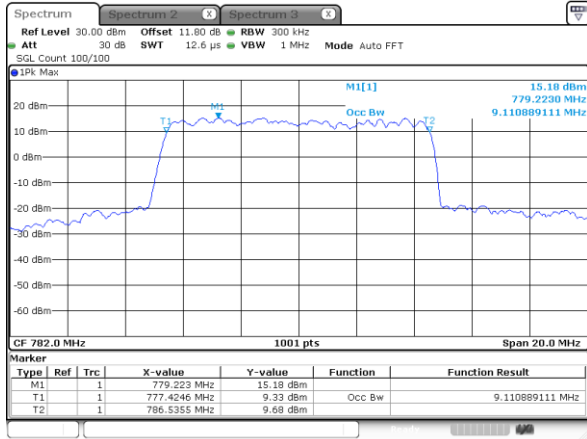
Highest Channel / 5MHz / 16QAM





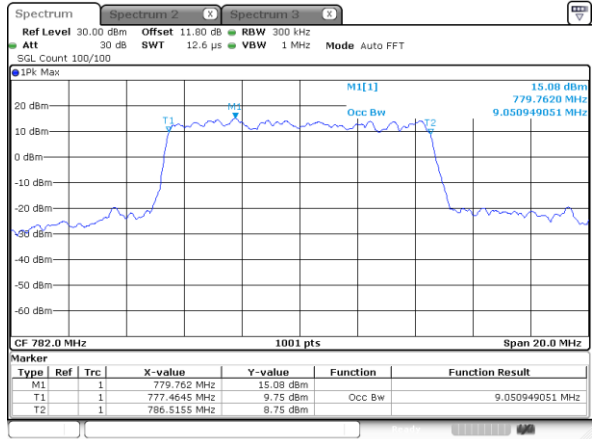
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 14.JAN.2018 23:22:06

Middle Channel / 10MHz / 16QAM



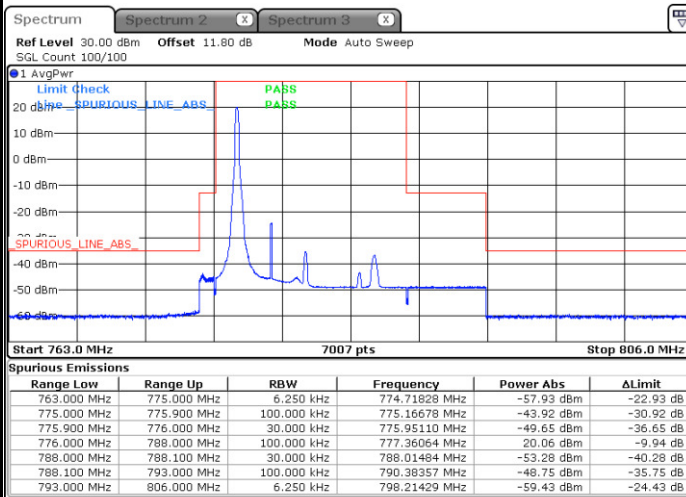
Date: 14.JAN.2018 23:22:17



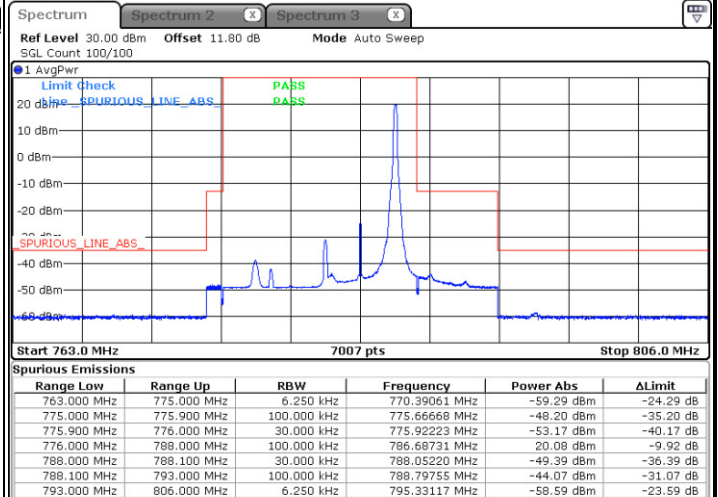
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

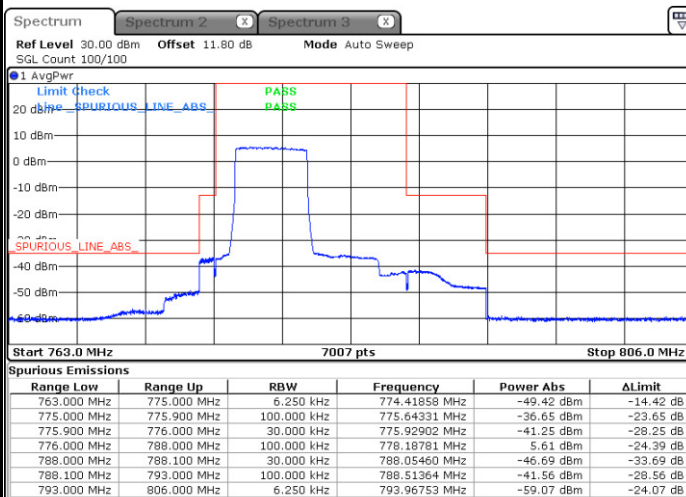
Lowest Band Edge / 1 RB



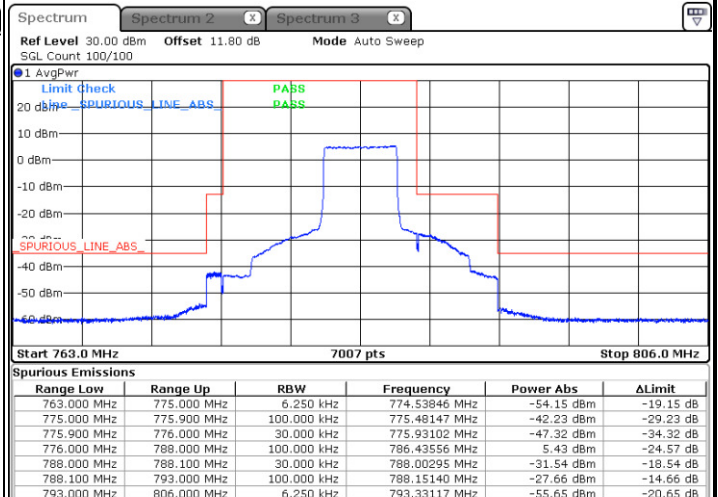
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



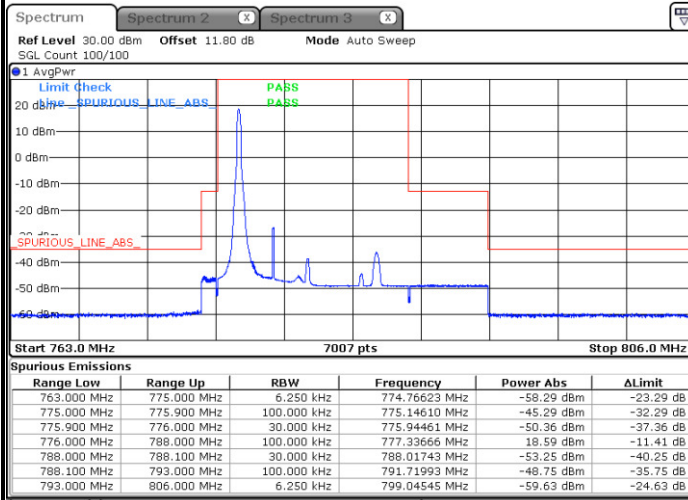
Highest Band Edge / Full RB



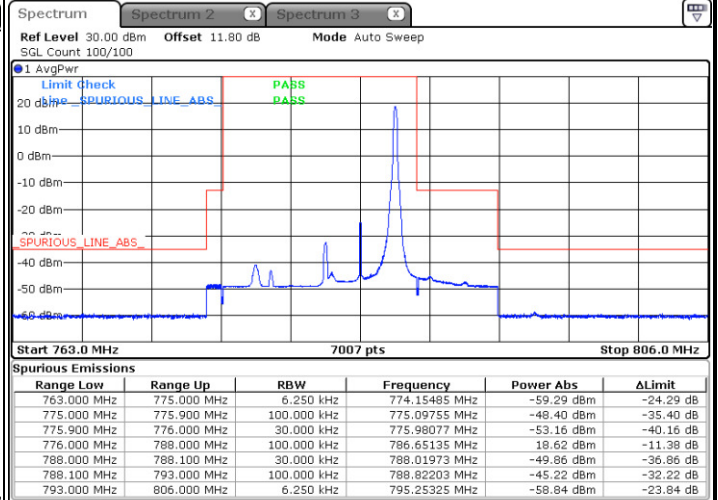


LTE Band 13 / 5MHz / 16QAM

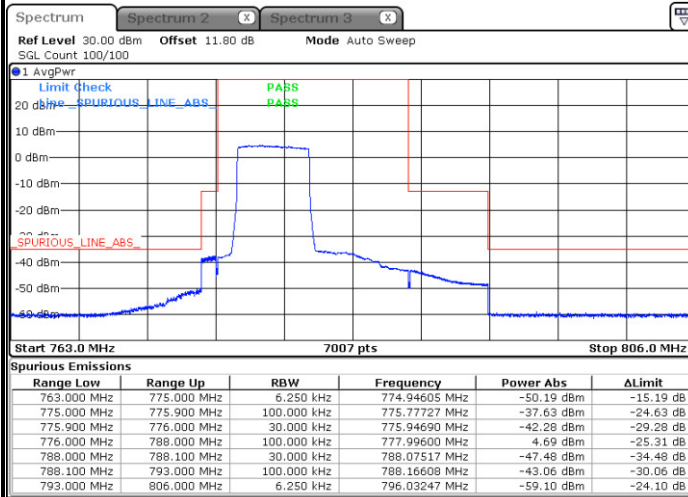
Lowest Band Edge / 1 RB



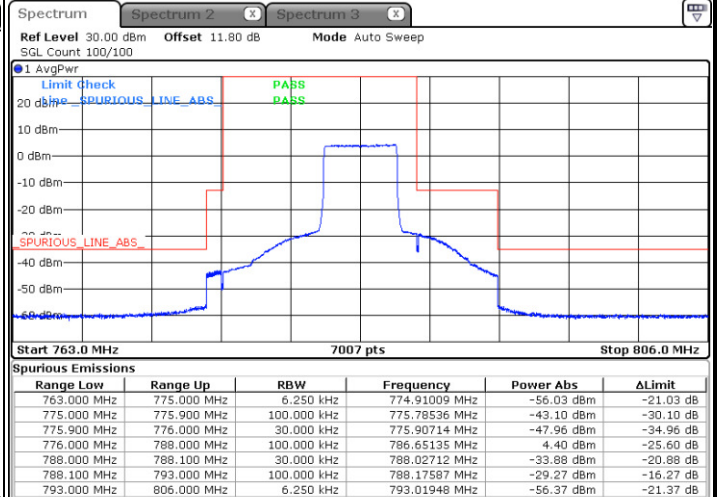
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



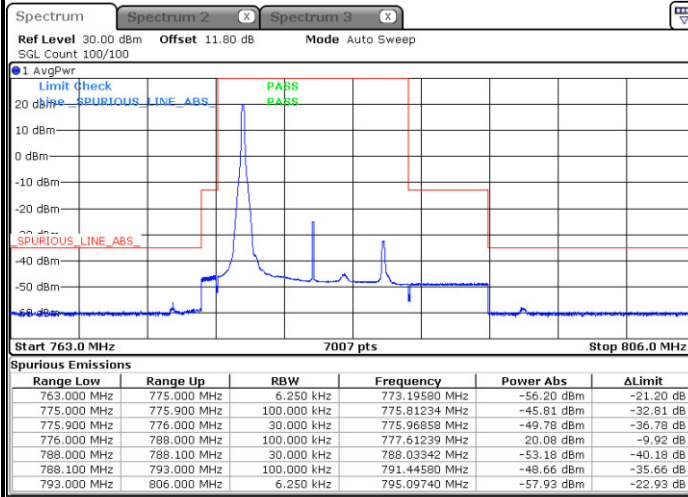
Highest Band Edge / Full RB





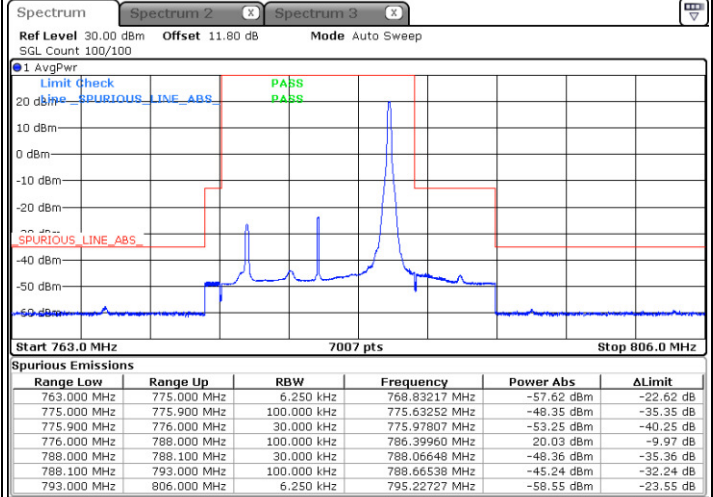
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



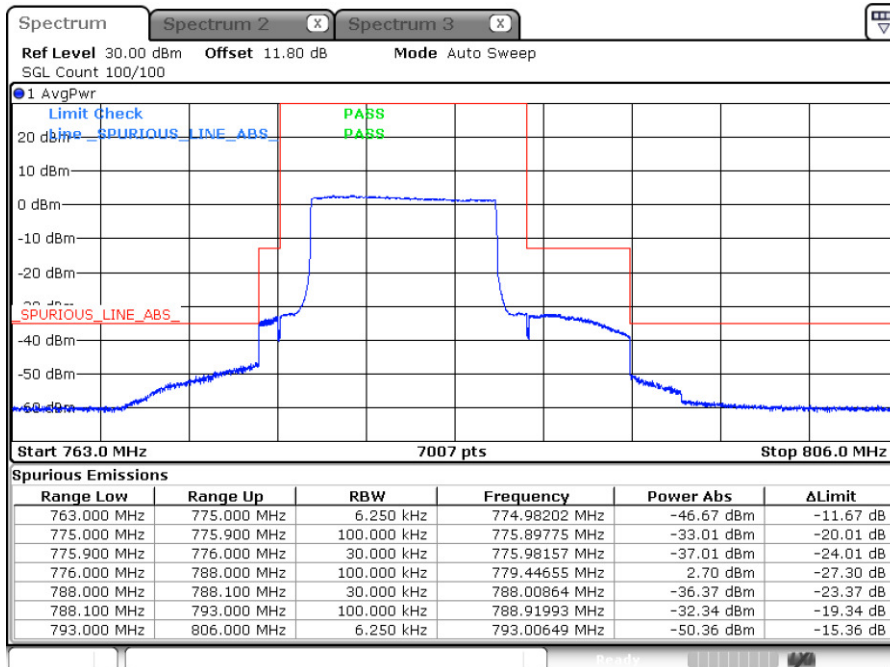
Date: 14.JAN.2018 23:29:16

Highest Band Edge / 1 RB



Date: 14.JAN.2018 23:30:55

Band Edge / Full RB

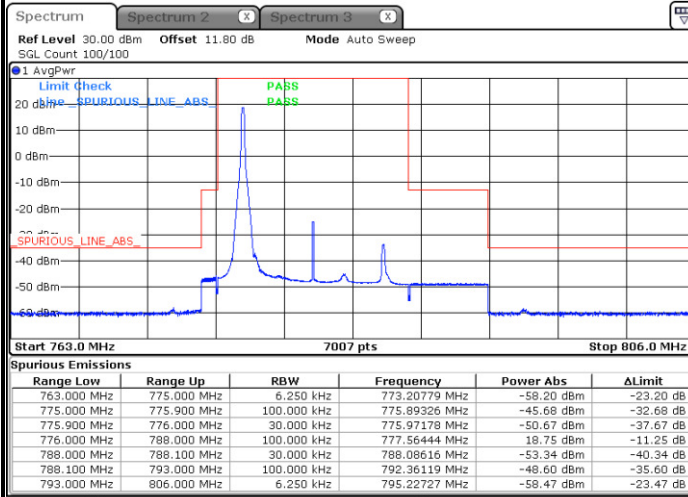


Date: 14.JAN.2018 23:24:19



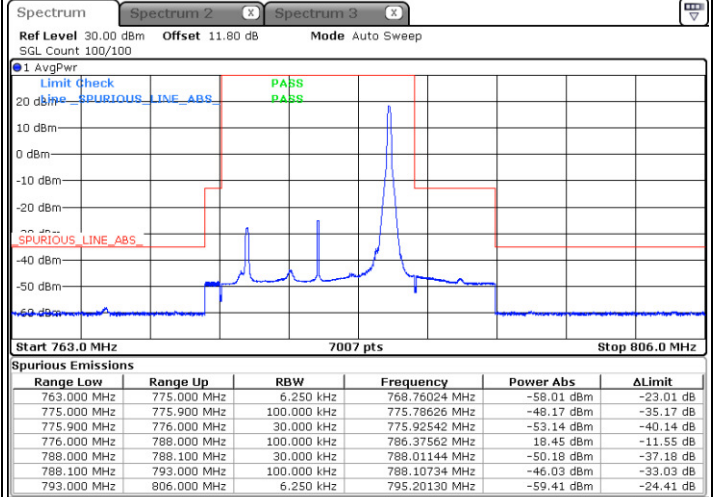
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



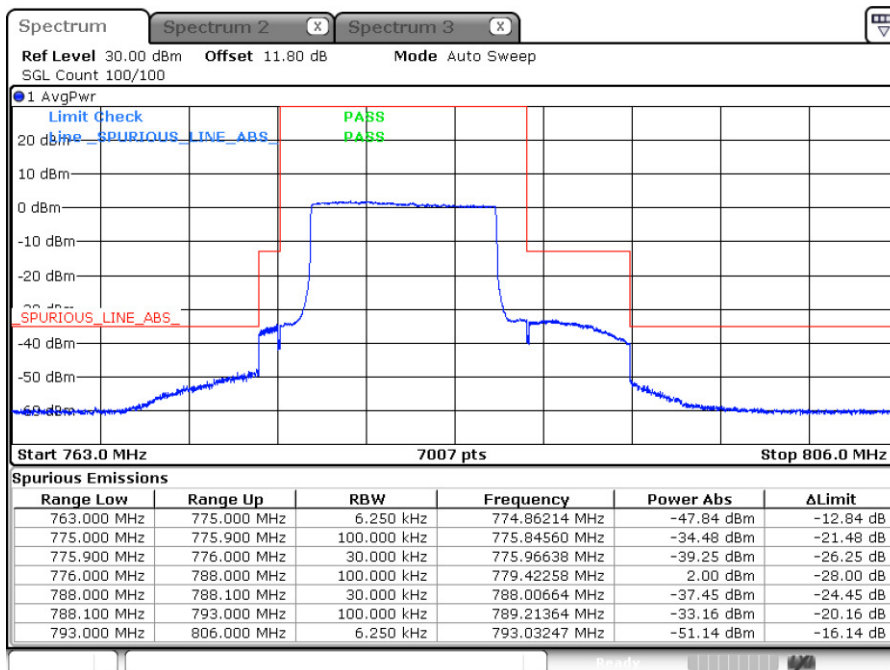
Date: 14.JAN.2018 23:27:37

Highest Band Edge / 1 RB



Date: 14.JAN.2018 23:32:34

Band Edge / Full RB



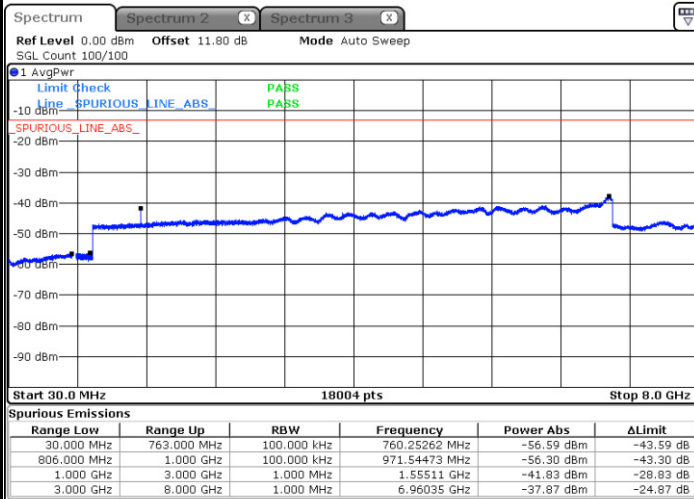
Date: 14.JAN.2018 23:25:58



Conducted Spurious Emission

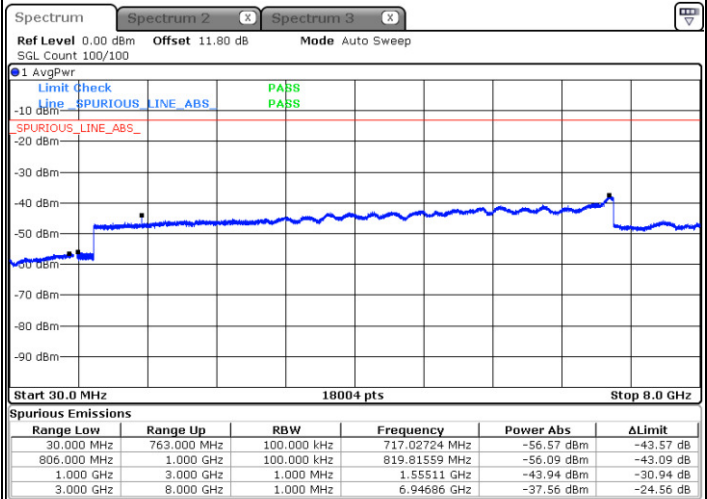
LTE Band 13 / 5MHz

Lowest Channel / QPSK



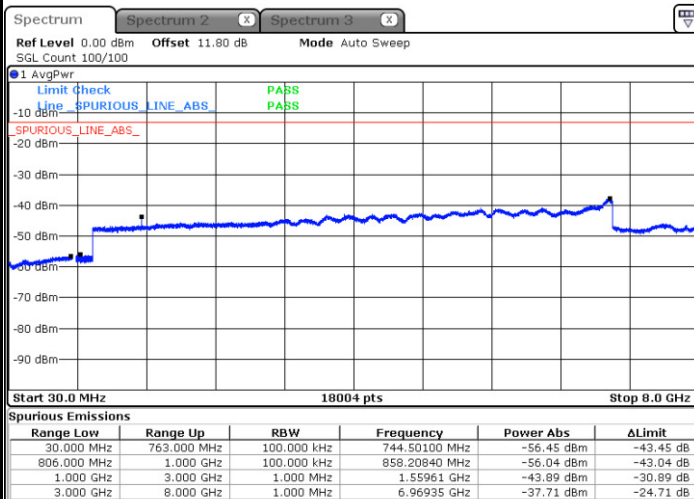
Date: 14.JAN.2018 23:09:08

Lowest Channel / 16QAM



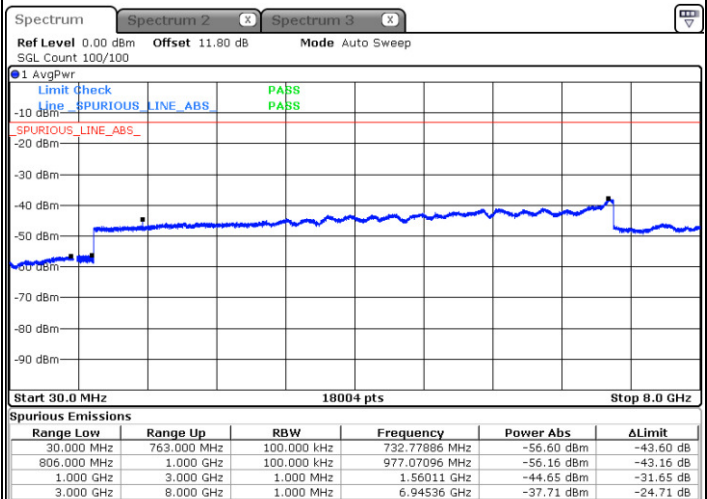
Date: 14.JAN.2018 23:10:04

Middle Channel / QPSK



Date: 14.JAN.2018 23:11:55

Middle Channel / 16QAM

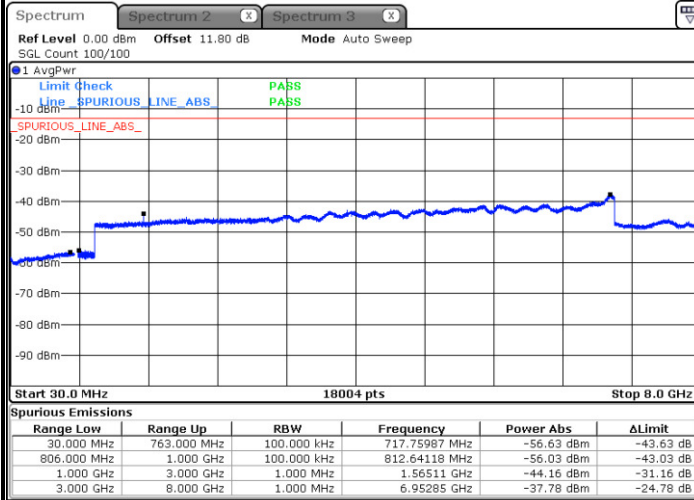


Date: 14.JAN.2018 23:10:59



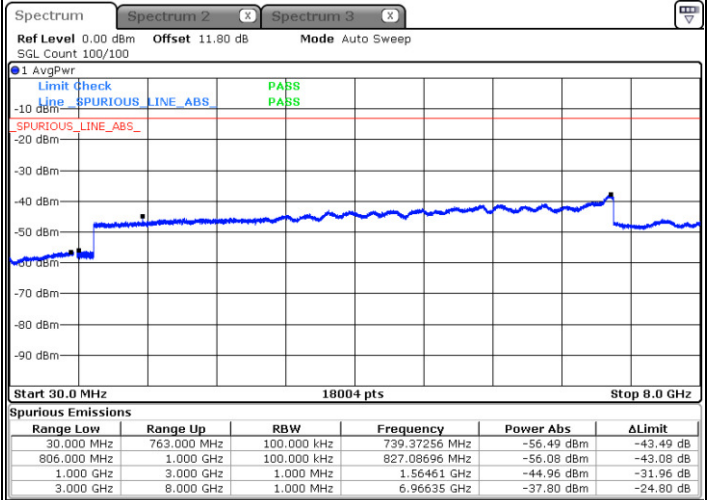
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 14.JAN.2018 23:20:58

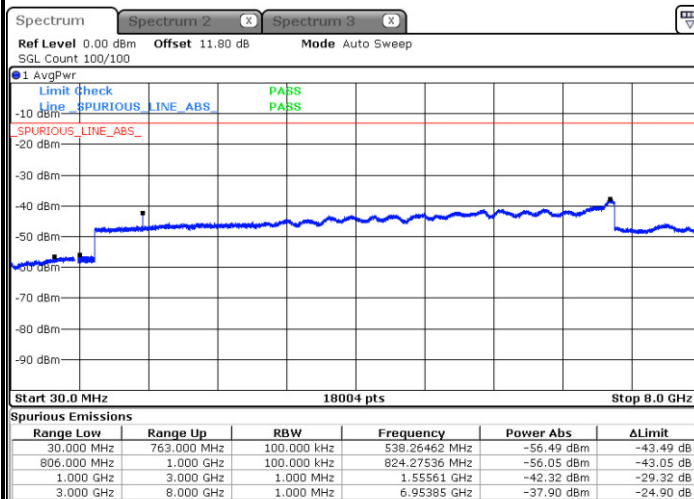
Highest Channel / 16QAM



Date: 14.JAN.2018 23:21:54

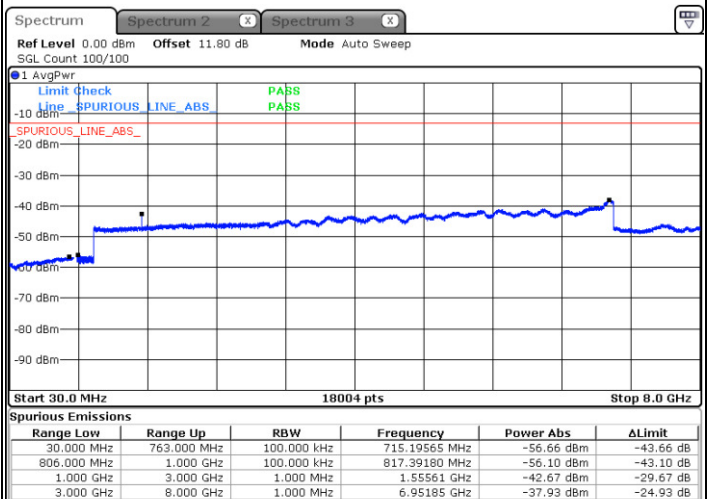
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 14.JAN.2018 23:34:24

Middle Channel / 16QAM



Date: 14.JAN.2018 23:33:29

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0072	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0060	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0059	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0052	

Note:

1. Normal Voltage =7.2 V. ; Battery End Point (BEP) =6.0 V. ; Maximum Voltage =8.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.