



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	3.57	5.01	4.7	5.8	
Highest CH	-	-	-	-	



LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 31.OCT.2016 14:44:54

Middle Channel / Full RB



Date: 31.OCT.2016 14:45:05

LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 31.OCT.2016 14:44:29

Middle Channel / Full RB



Date: 31.OCT.2016 14:44:41

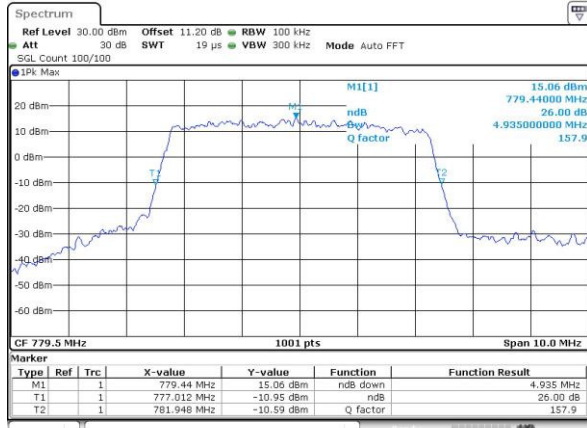
**26dB Bandwidth**

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	-	-	-	-	4.94	4.84	-	-	-	-	-	-
Middle CH	-	-	-	-	4.94	4.94	9.71	9.75	-	-	-	-
Highest CH	-	-	-	-	4.88	4.93	-	-	-	-	-	-



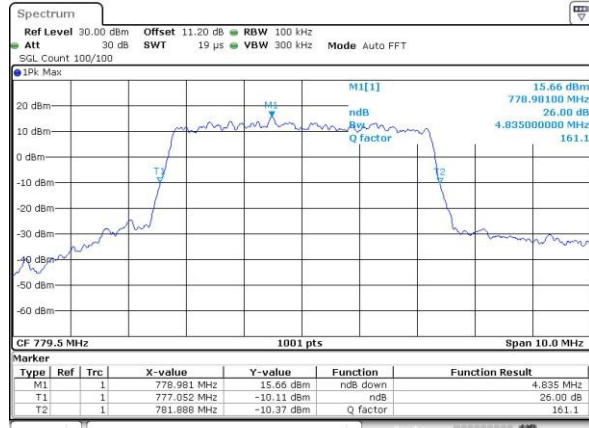
LTE Band 13

Lowest Channel / 5MHz / QPSK



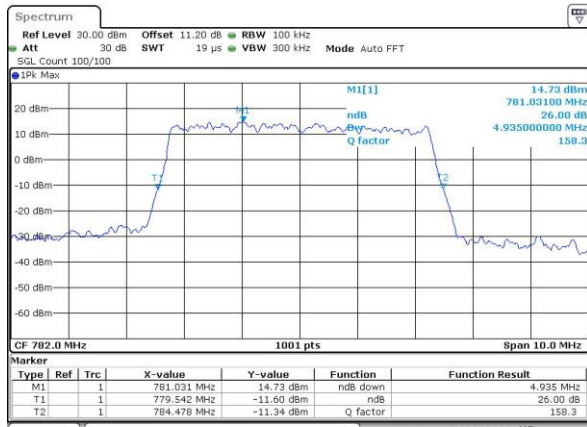
Date: 31.OCT.2016 14:04:04

Lowest Channel / 5MHz / 16QAM



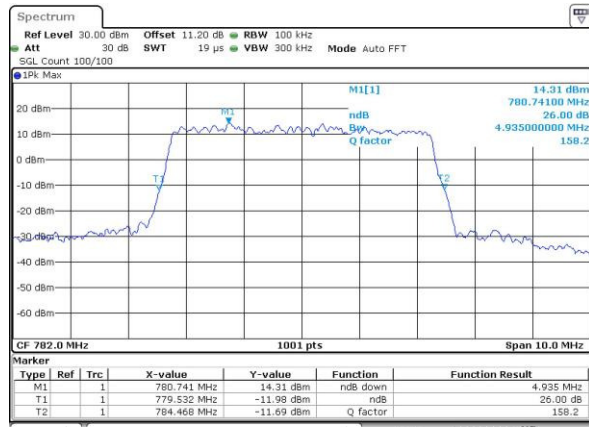
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Middle Channel / 5MHz / QPSK



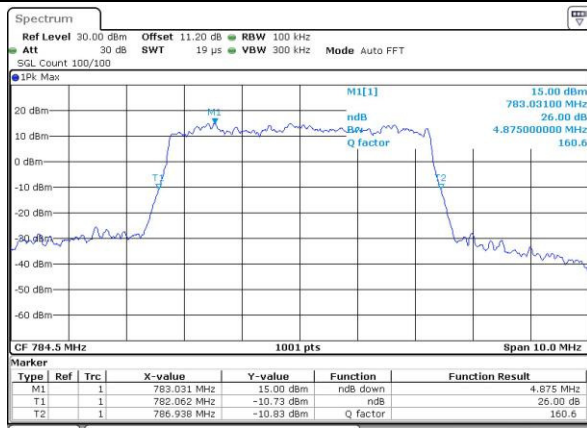
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Middle Channel / 5MHz / 16QAM



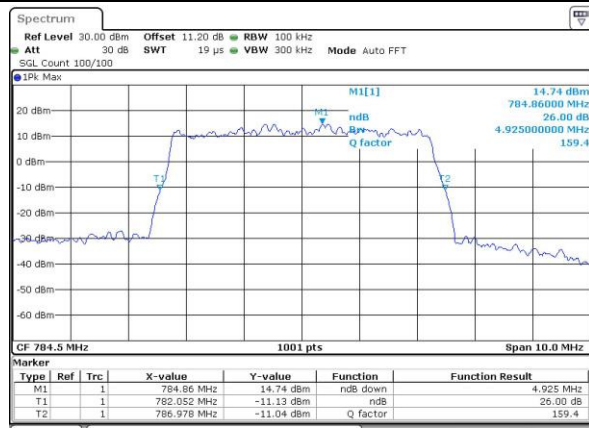
Date: 31.OCT.2016 14:14:57

Highest Channel / 5MHz / QPSK



Date: 31.OCT.2016 14:16:08

Highest Channel / 5MHz / 16QAM

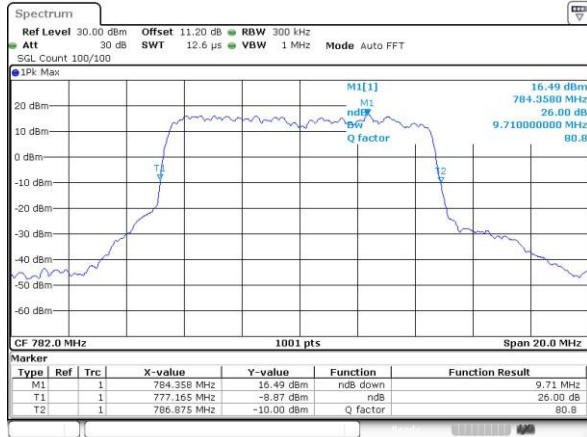


Date: 31.OCT.2016 14:15:56



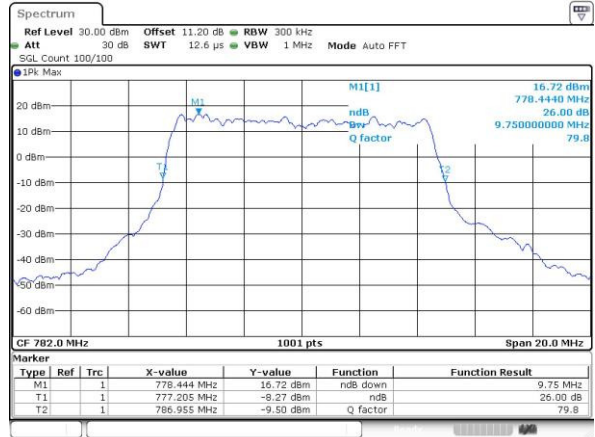
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 31.OCT.2016 14:25:29

Middle Channel / 10MHz / 16QAM



Date: 31.OCT.2016 14:25:18

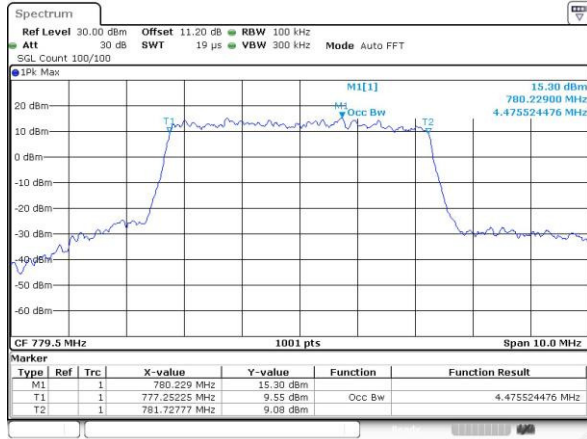
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.46	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.5	9.05	9.01	-	-	-	-
Highest CH	-	-	-	-	4.47	4.48	-	-	-	-	-	-

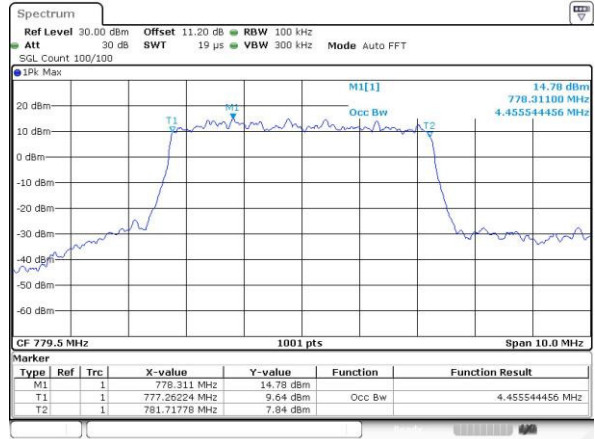


LTE Band 13

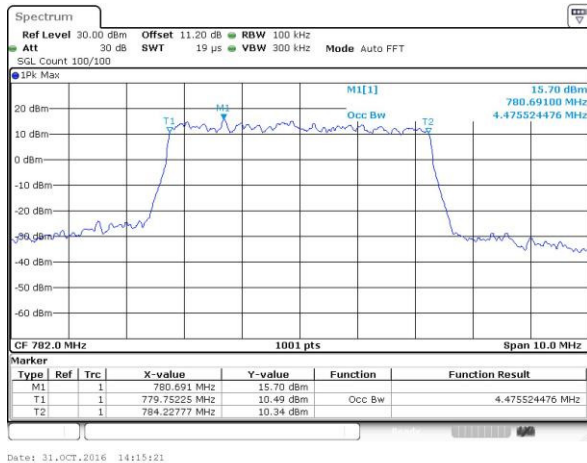
Lowest Channel / 5MHz / QPSK



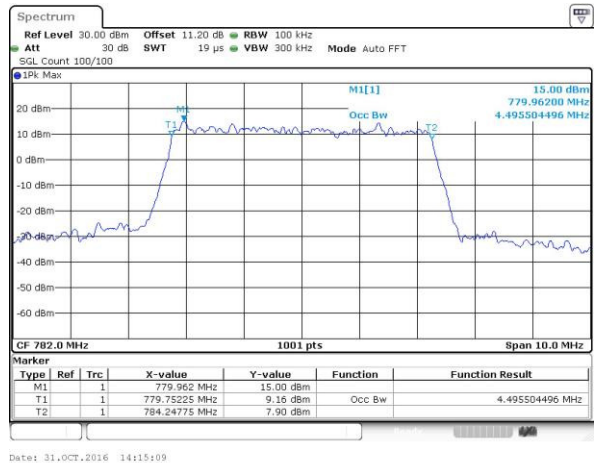
Lowest Channel / 5MHz / 16QAM



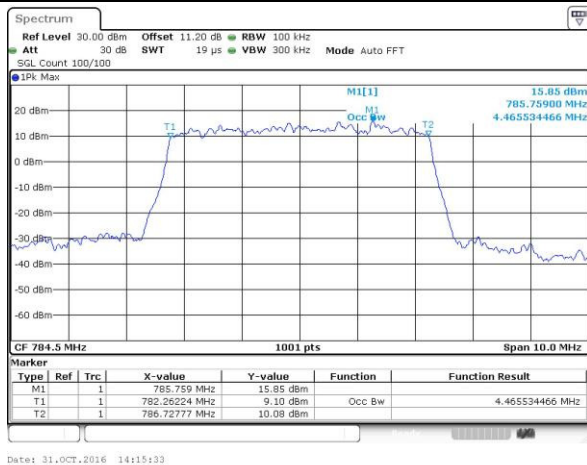
Middle Channel / 5MHz / QPSK



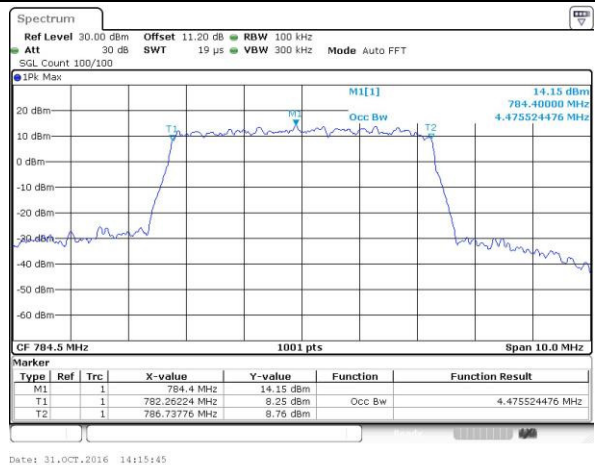
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



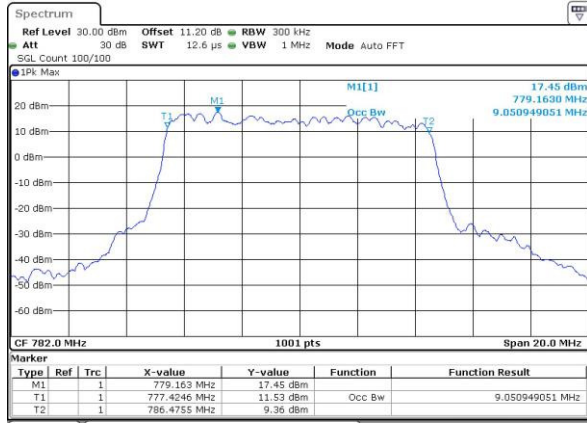
Highest Channel / 5MHz / 16QAM





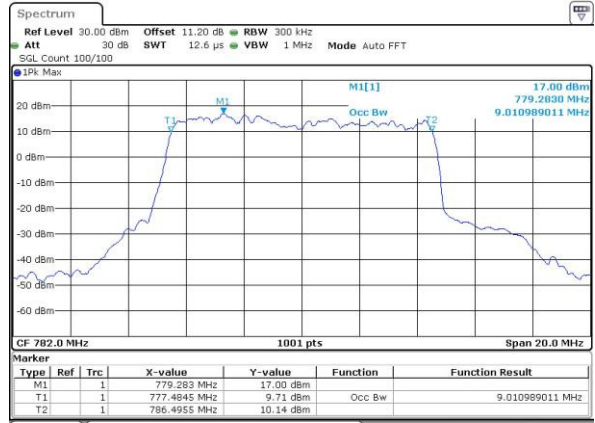
LTE Band 13

Middle Channel / 10MHz / QPSK

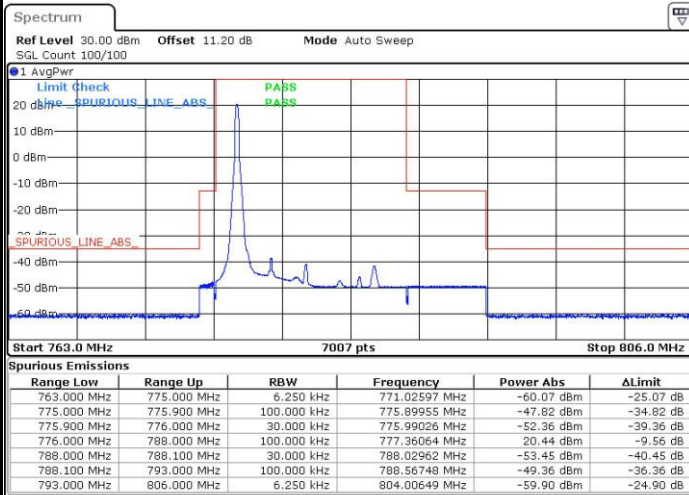
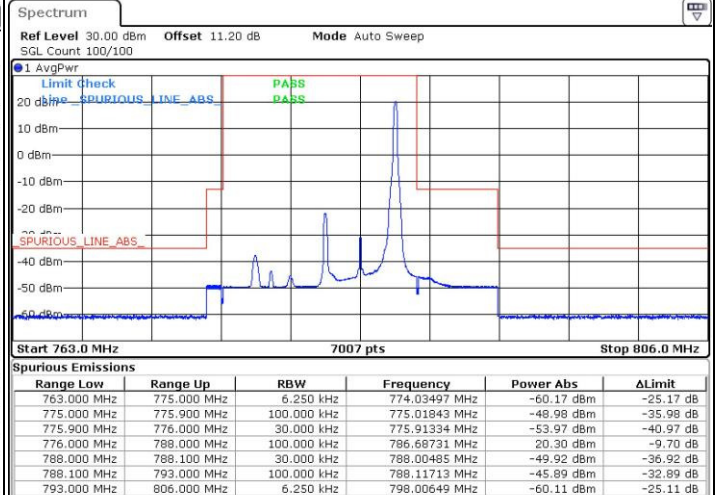
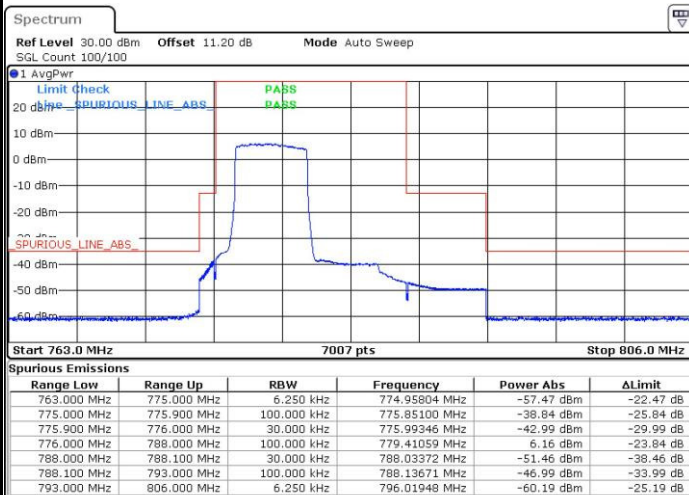
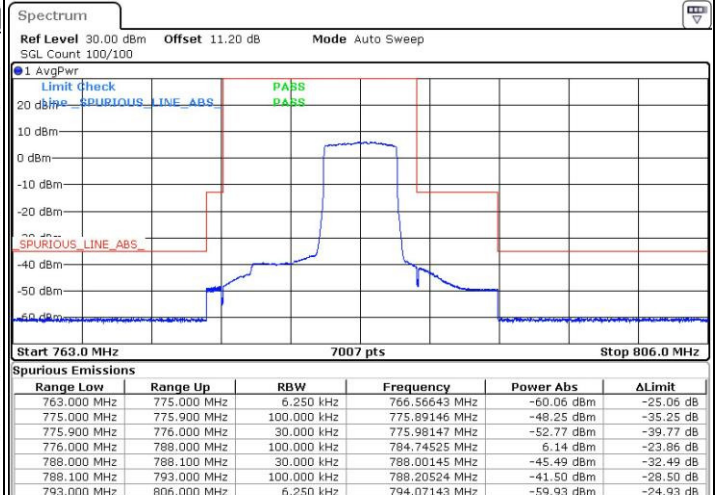


Date: 31.OCT.2016 14:24:54

Middle Channel / 10MHz / 16QAM



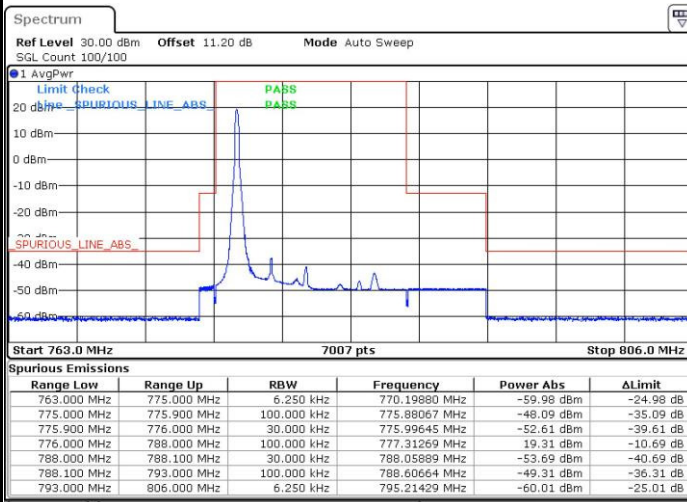
Date: 31.OCT.2016 14:25:06

**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**

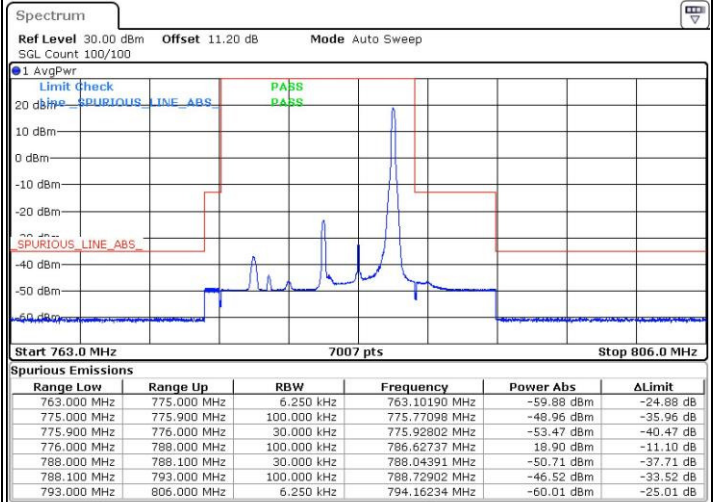


LTE Band 13 / 5MHz / 16QAM

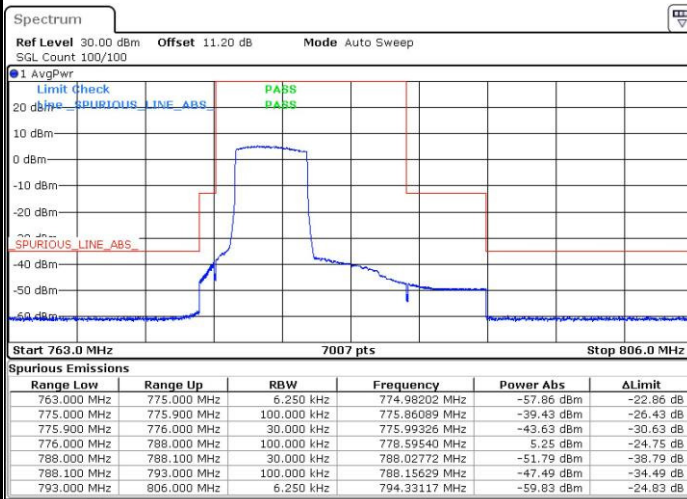
Lowest Band Edge / 1 RB



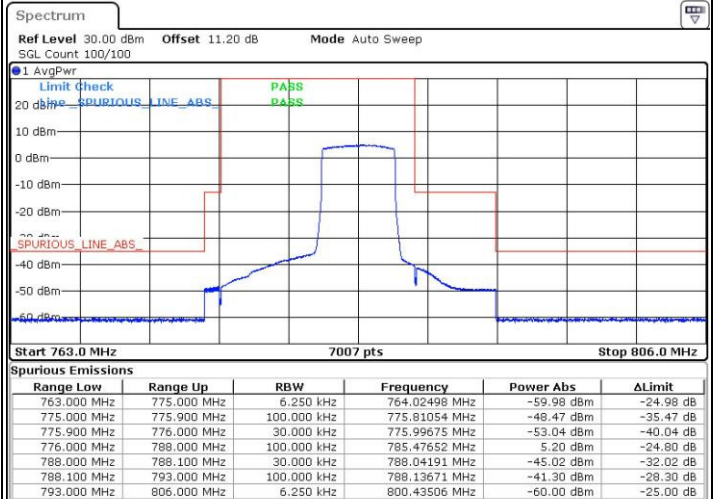
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



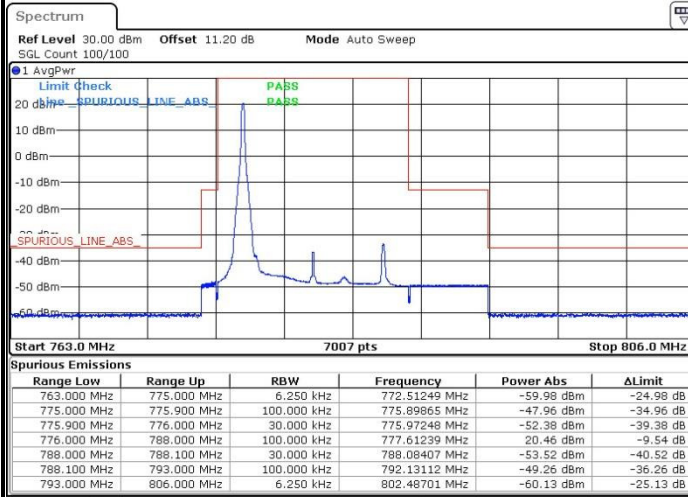
Highest Band Edge / Full RB





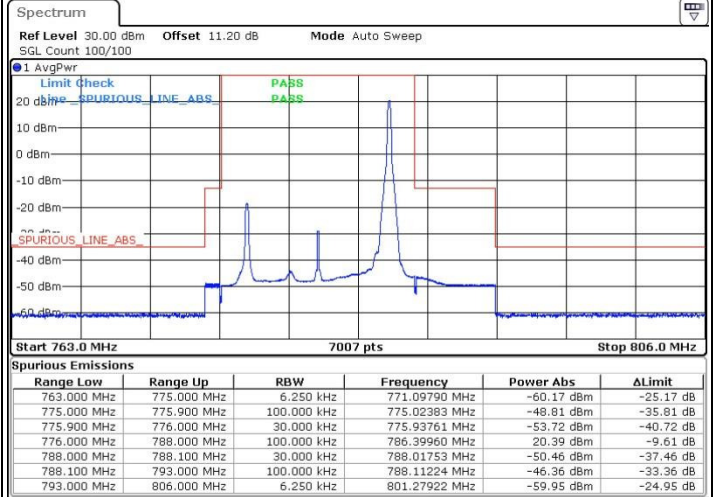
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



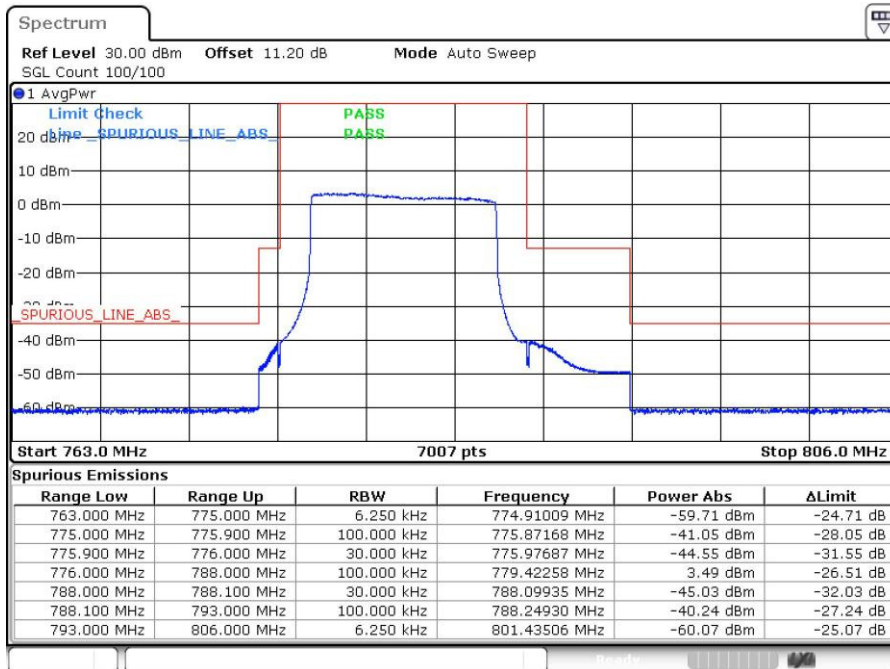
Date: 31.OCT.2016 14:32:08

Highest Band Edge / 1 RB



Date: 31.OCT.2016 14:33:48

Band Edge / Full RB

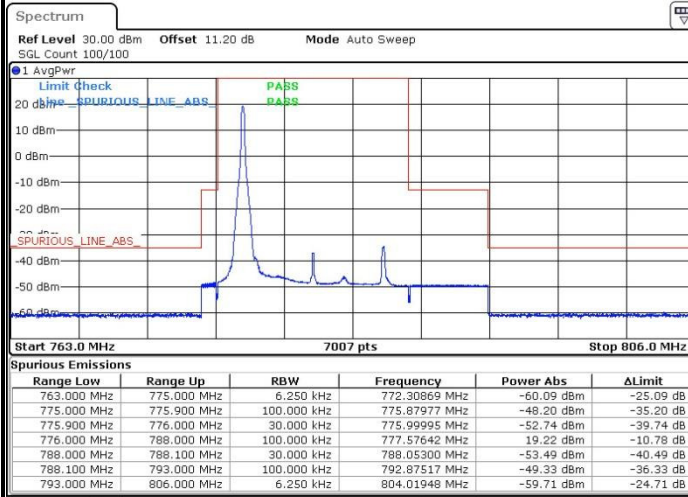


Date: 31.OCT.2016 14:27:09



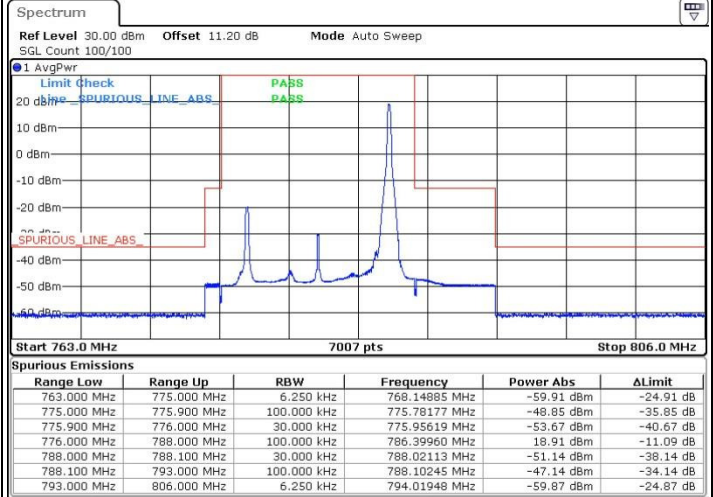
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



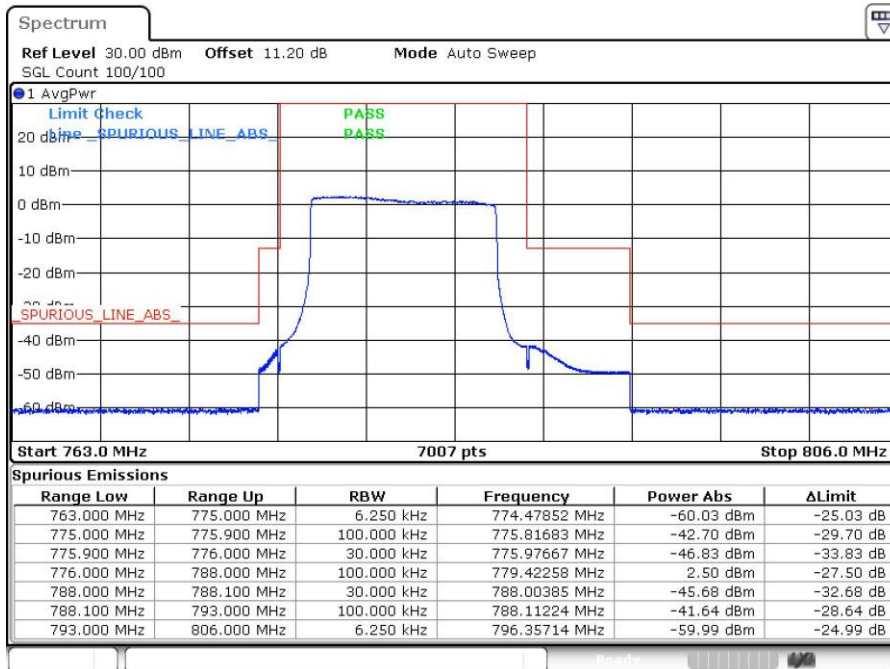
Date: 31.OCT.2016 14:30:28

Highest Band Edge / 1 RB



Date: 31.OCT.2016 14:35:27

Band Edge / Full RB



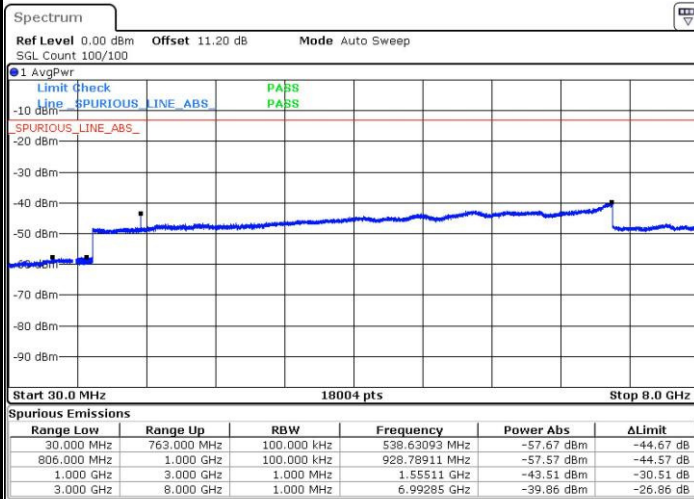
Date: 31.OCT.2016 14:28:48



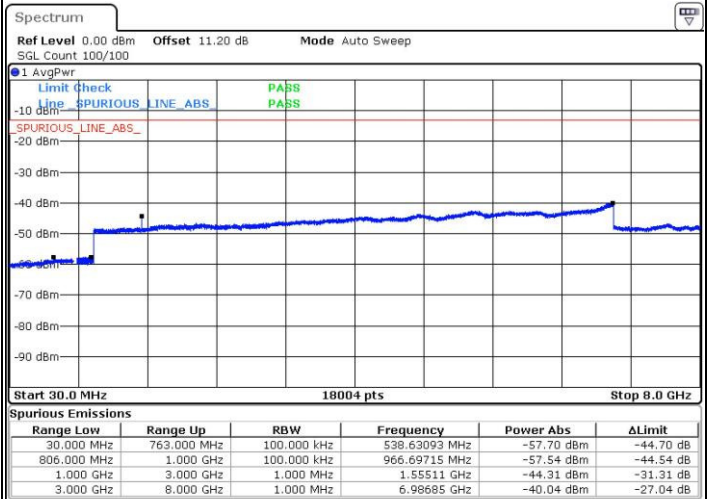
Conducted Spurious Emission

LTE Band 13 / 5MHz

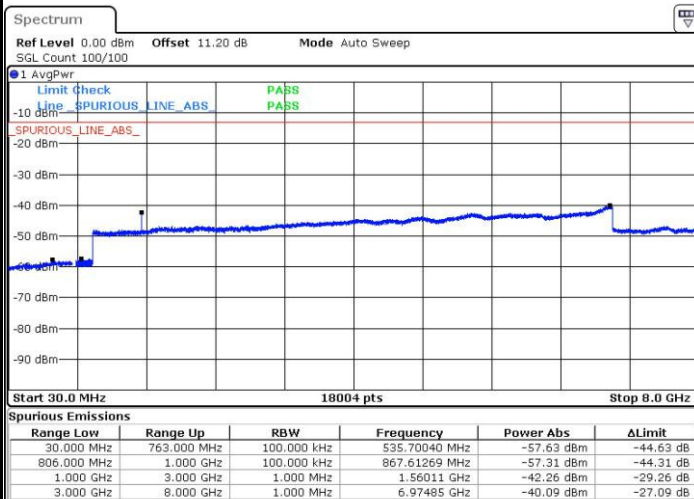
Lowest Channel / QPSK



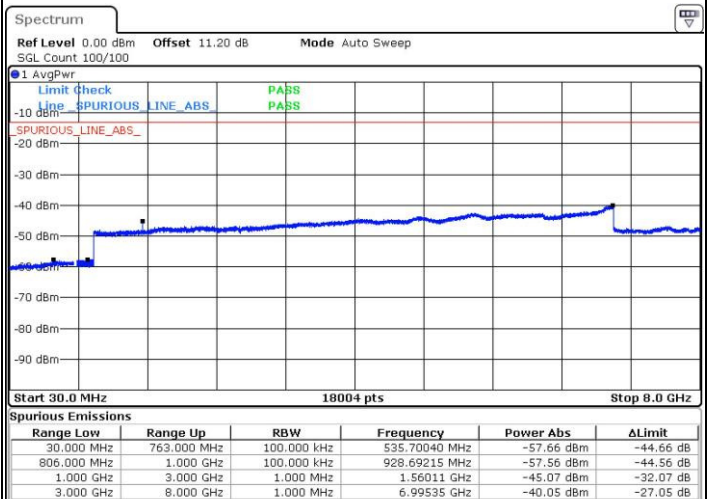
Lowest Channel / 16QAM



Middle Channel / QPSK



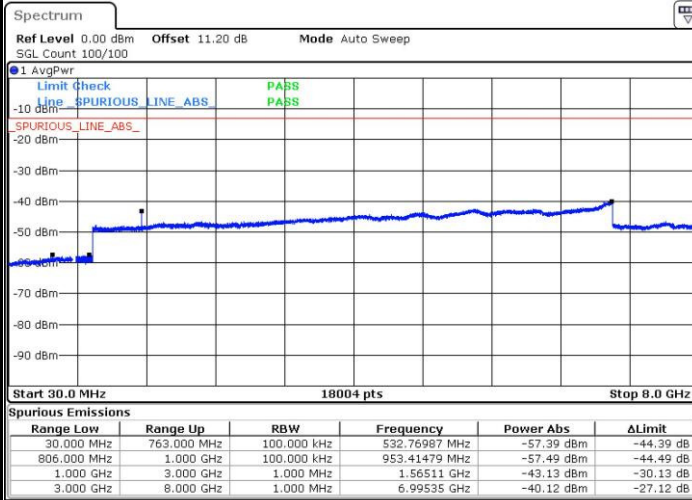
Middle Channel / 16QAM





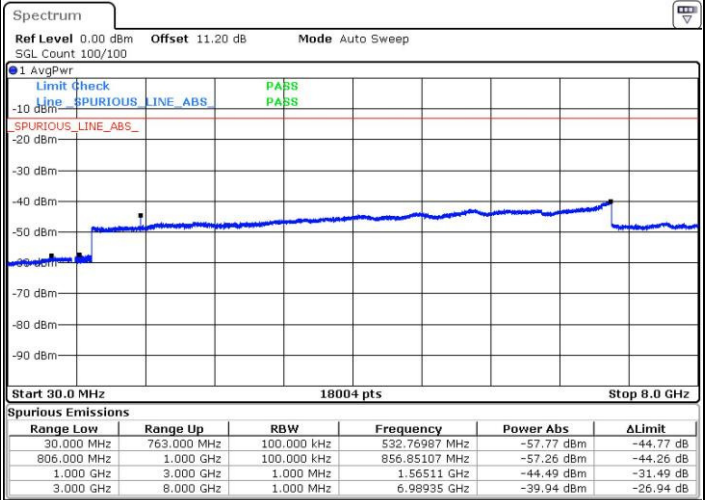
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 31.OCT.2016 14:23:44

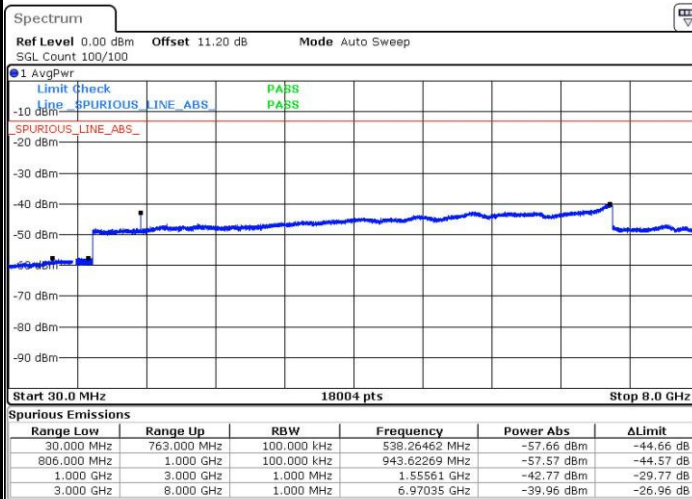
Highest Channel / 16QAM



Date: 31.OCT.2016 14:24:42

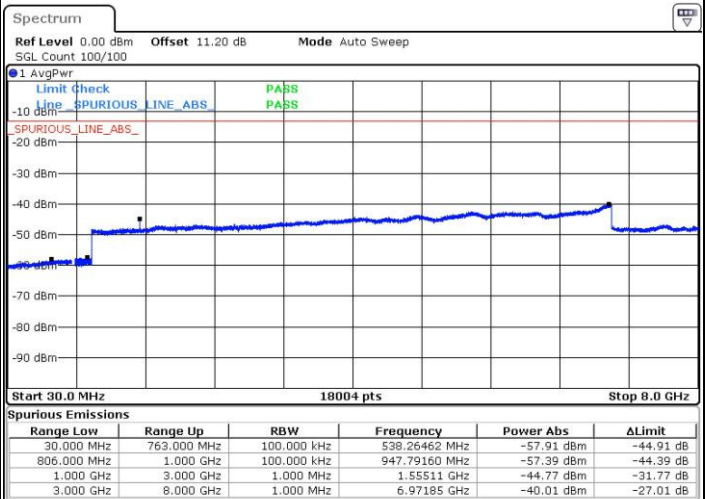
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 31.OCT.2016 14:37:22

Middle Channel / 16QAM



Date: 31.OCT.2016 14:36:24

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	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0091	
-30	Normal Voltage	0.0087	
20	Maximum Voltage	0.0082	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.6 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.