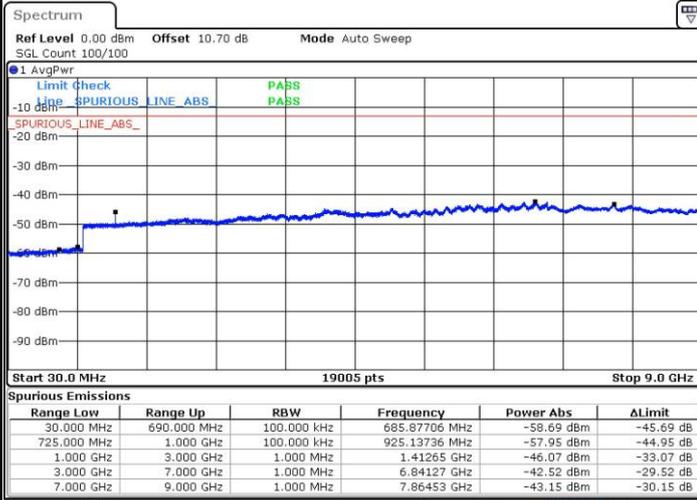




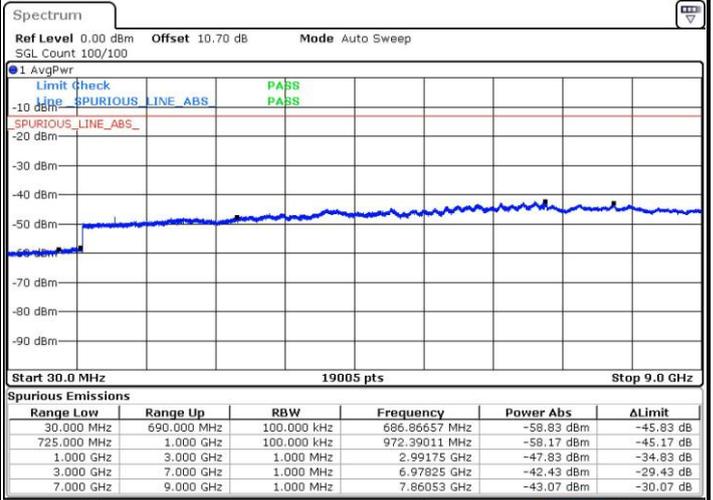
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



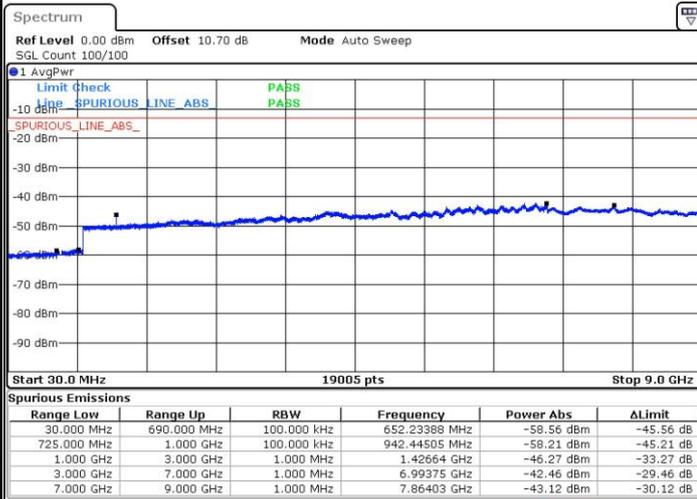
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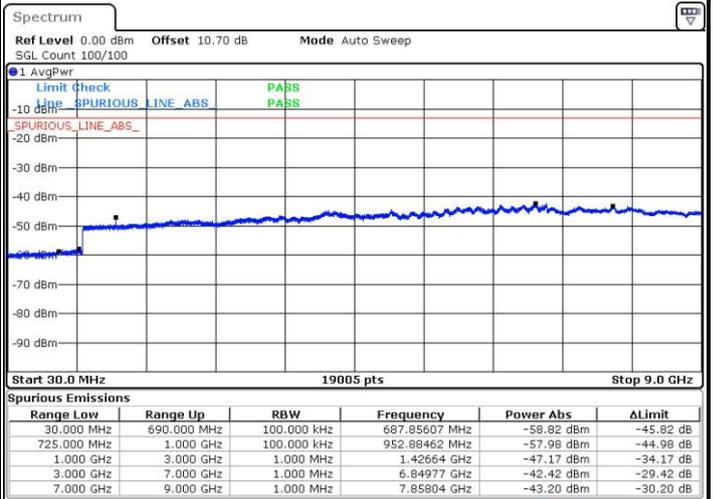
Date: 21.DEC.2016 09:03:09

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21.DEC.2016 09:10:15

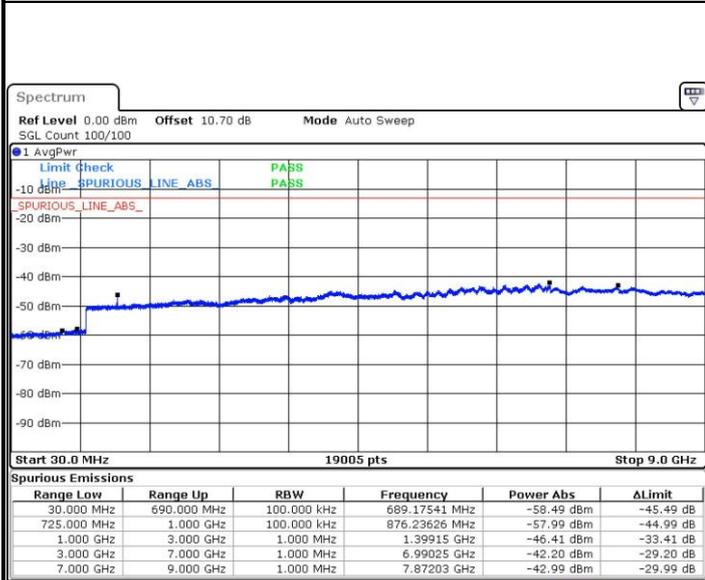


Date: 21.DEC.2016 09:11:09



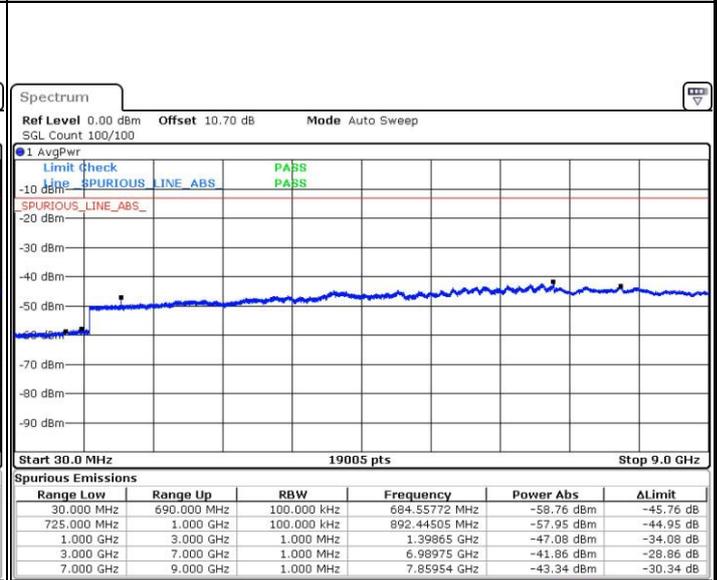
LTE Band 12 / 5MHz

Lowest Channel / QPSK



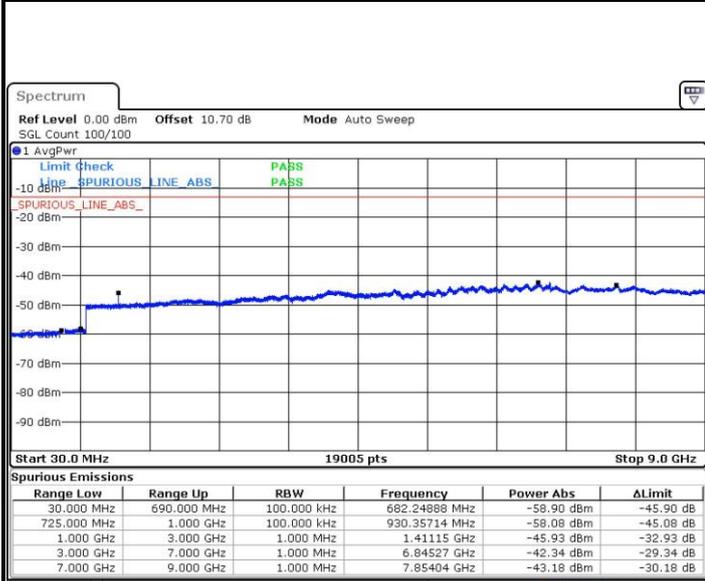
Date: 21.DEC.2016 09:17:21

Lowest Channel / 16QAM



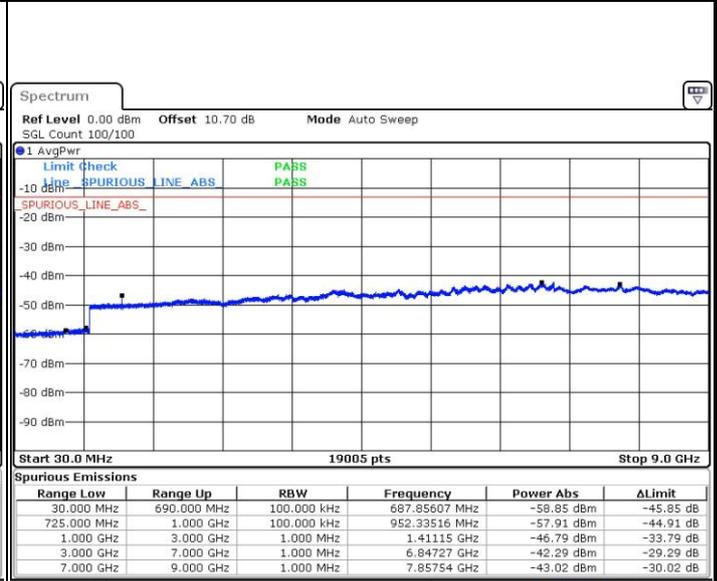
Date: 21.DEC.2016 09:18:15

Middle Channel / QPSK



Date: 21.DEC.2016 09:20:44

Middle Channel / 16QAM



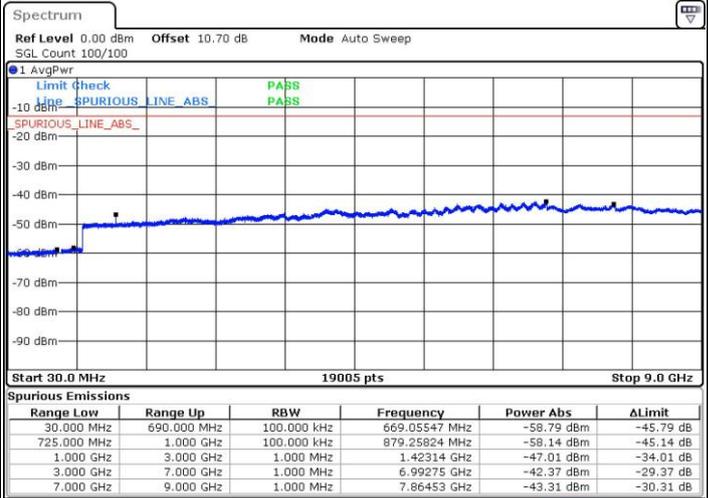
Date: 21.DEC.2016 09:19:50



LTE Band 12 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



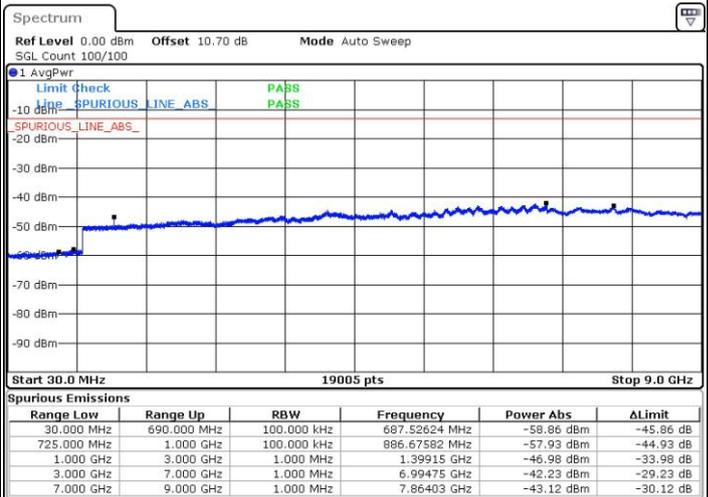
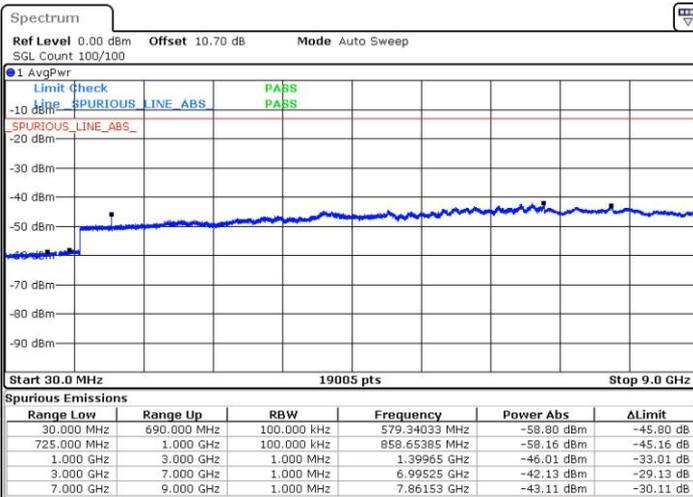
Date: 21.DEC.2016 09:27:50

Date: 21.DEC.2016 09:26:56

LTE Band 12 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



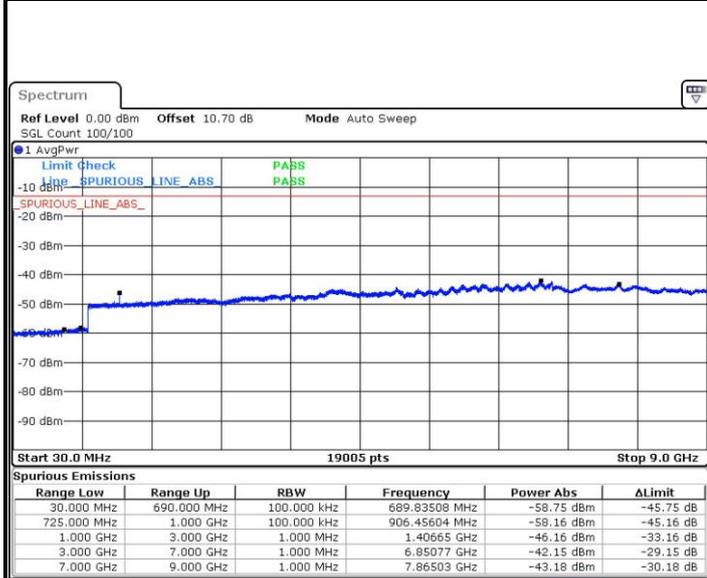
Date: 21.DEC.2016 09:34:02

Date: 21.DEC.2016 09:34:56



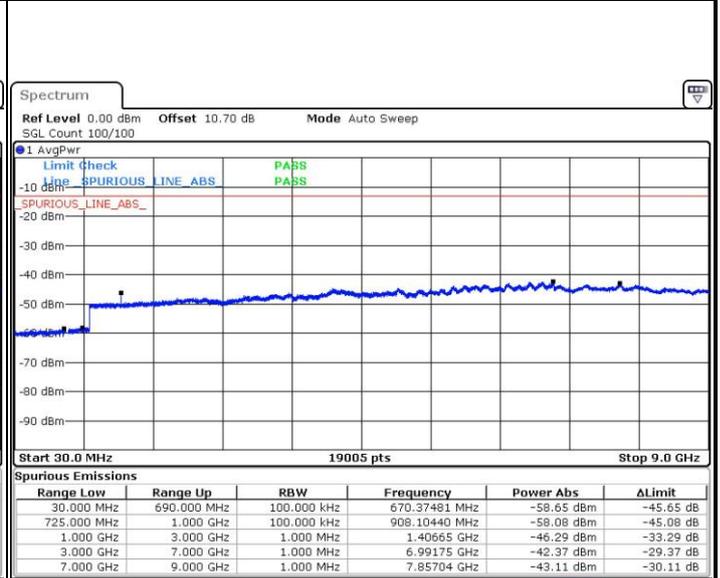
LTE Band 12 / 10MHz

Middle Channel / QPSK



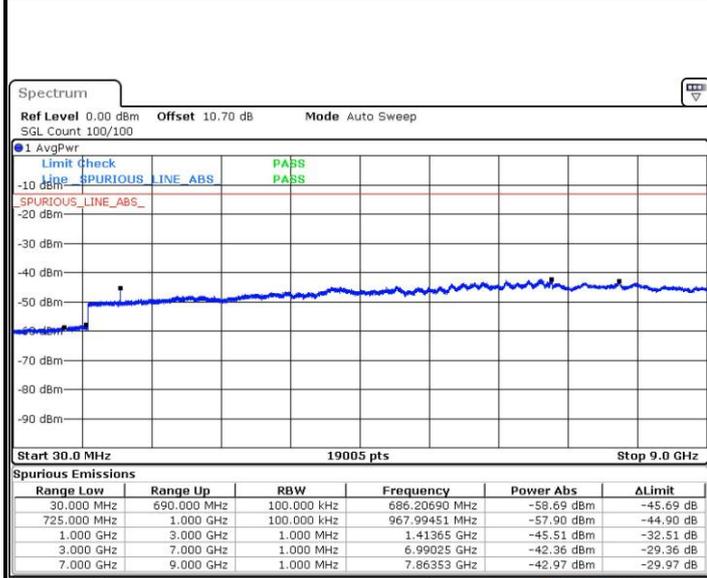
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Middle Channel / 16QAM



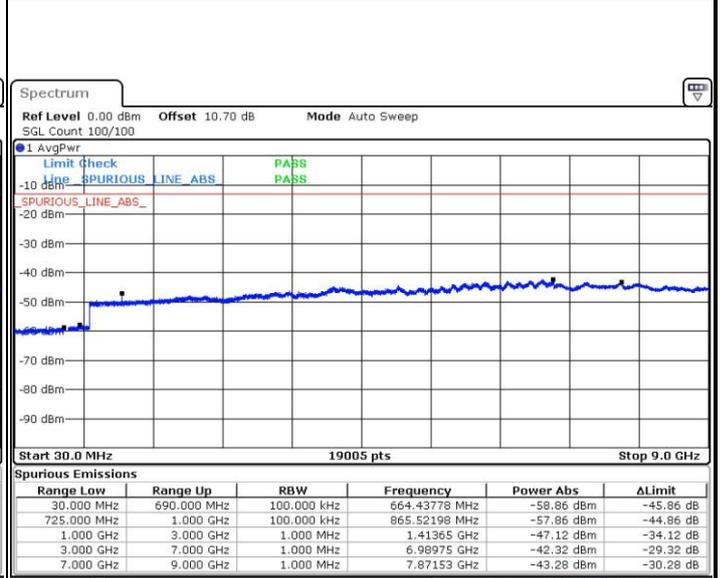
Date: 21.DEC.2016 09:36:32

Highest Channel / QPSK



Date: 21.DEC.2016 09:43:37

Highest Channel / 16QAM



Date: 21.DEC.2016 09:44:31



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0071	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0071	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0082	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0081	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.8 V. ; 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	3.86	5.07	4.7	6.03	
Highest CH	-	-	-	-	



LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 20 DEC 2016 15:54:52

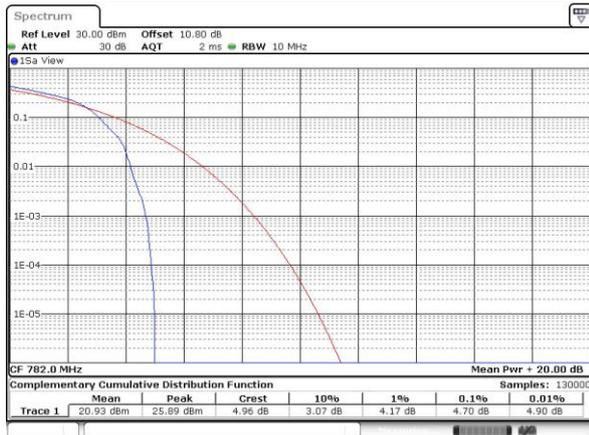
Middle Channel / Full RB



Date: 20 DEC 2016 15:55:01

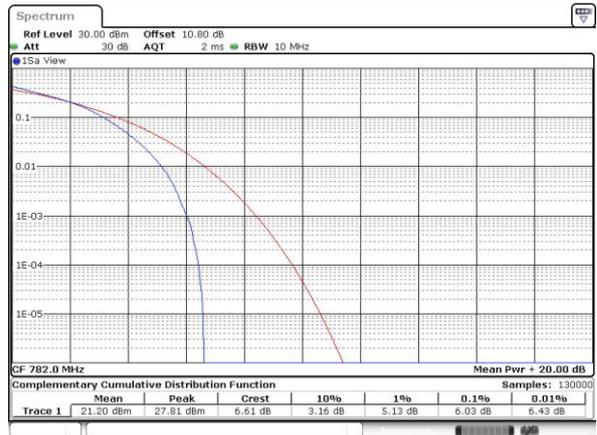
LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 20 DEC 2016 15:54:28

Middle Channel / Full RB



Date: 20 DEC 2016 15:54:42



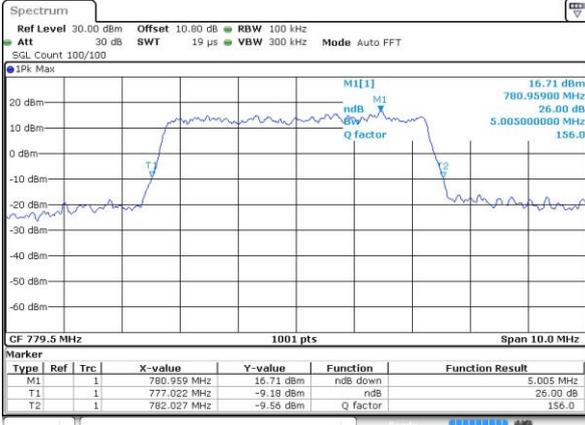
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(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	-	-	-	-	5.01	4.93	-	-	-	-	-	-
Middle CH	-	-	-	-	4.95	4.94	9.93	9.99	-	-	-	-
Highest CH	-	-	-	-	4.94	5.03	-	-	-	-	-	-



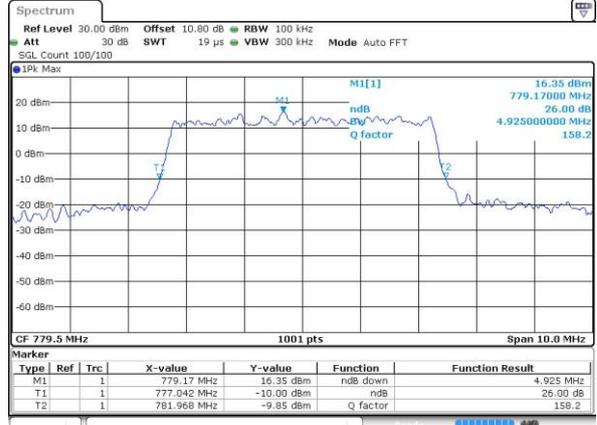
LTE Band 13

Lowest Channel / 5MHz / QPSK



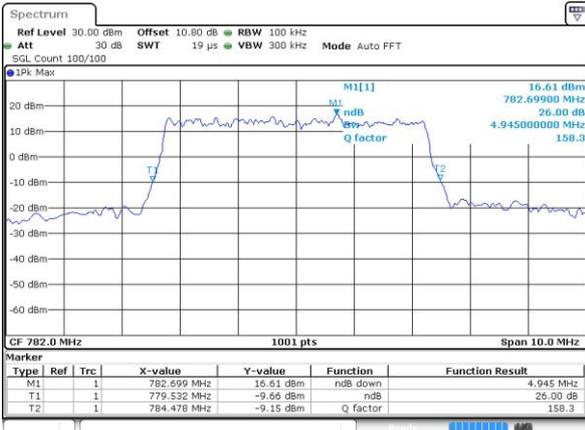
Date: 20 DEC 2016 15:16:34

Lowest Channel / 5MHz / 16QAM



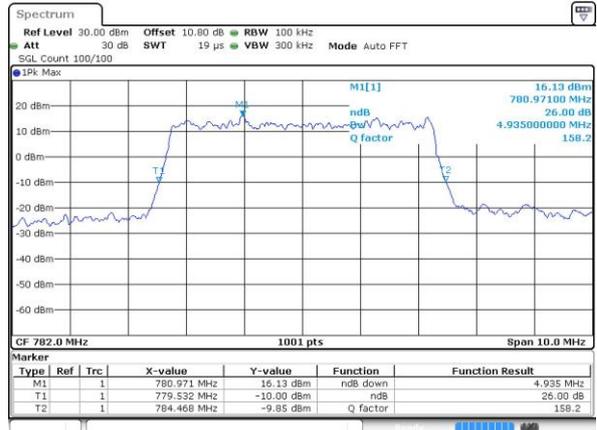
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Middle Channel / 5MHz / QPSK



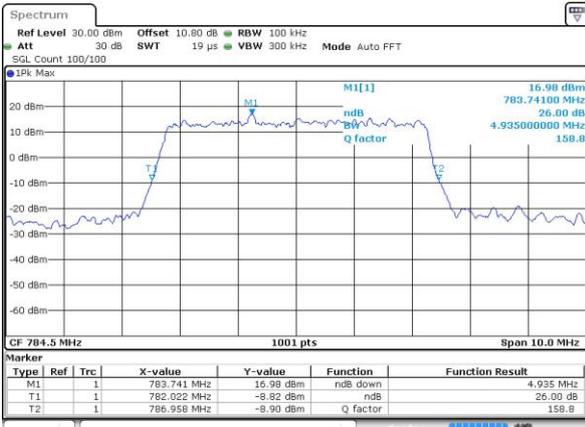
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Middle Channel / 5MHz / 16QAM



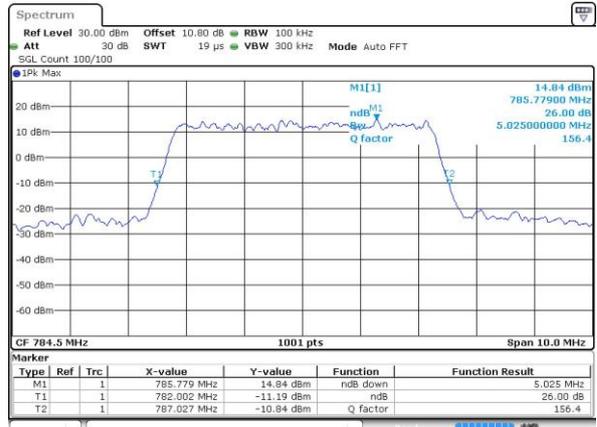
Date: 20 DEC 2016 15:27:10

Highest Channel / 5MHz / QPSK



Date: 20 DEC 2016 15:28:13

Highest Channel / 5MHz / 16QAM

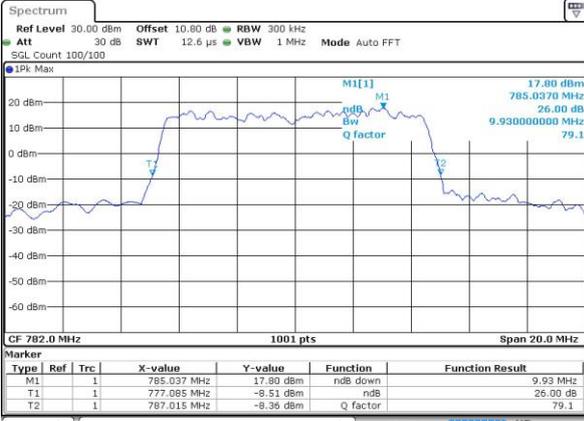


Date: 20 DEC 2016 15:28:02



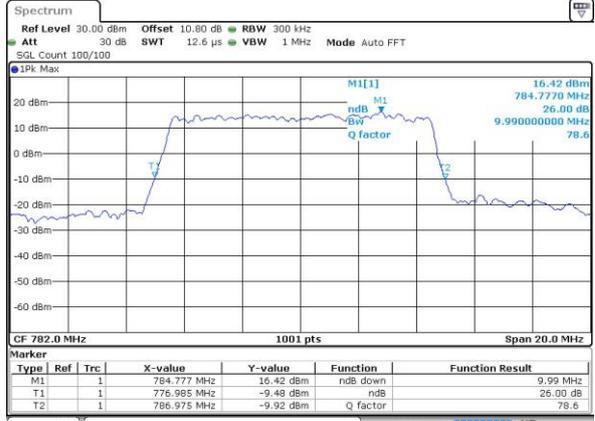
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 20 DEC 2016 15:37:20

Middle Channel / 10MHz / 16QAM



Date: 20 DEC 2016 15:37:10



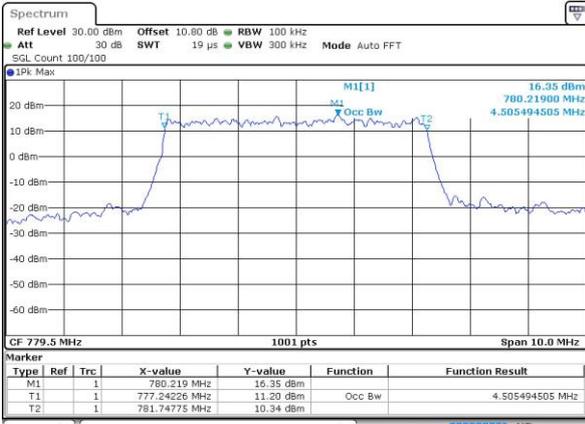
Occupied Bandwidth

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
Lowest CH	-	-	-	-	4.51	4.5	-	-	-	-	-	-
Middle CH	-	-	-	-	4.5	4.51	9.05	9.07	-	-	-	-
Highest CH	-	-	-	-	4.48	4.49	-	-	-	-	-	-



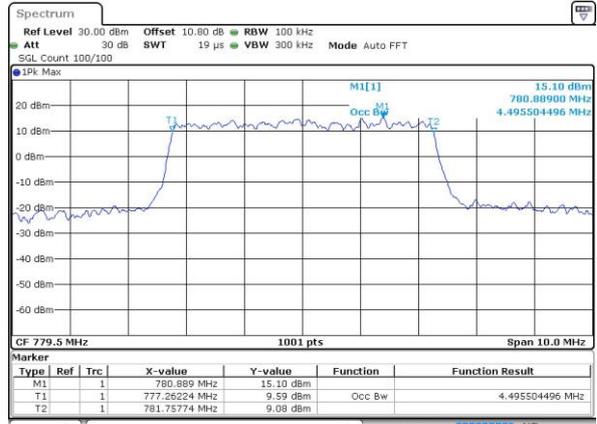
LTE Band 13

Lowest Channel / 5MHz / QPSK



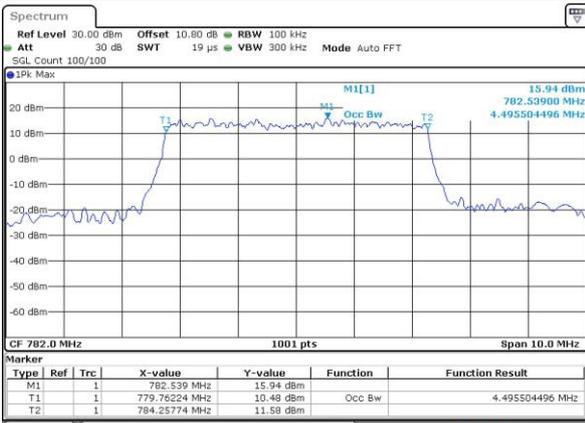
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Lowest Channel / 5MHz / 16QAM



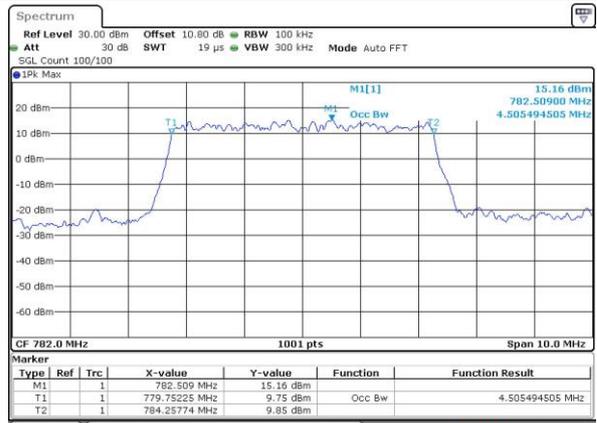
Date: 20 DEC 2016 15:16:14

Middle Channel / 5MHz / QPSK



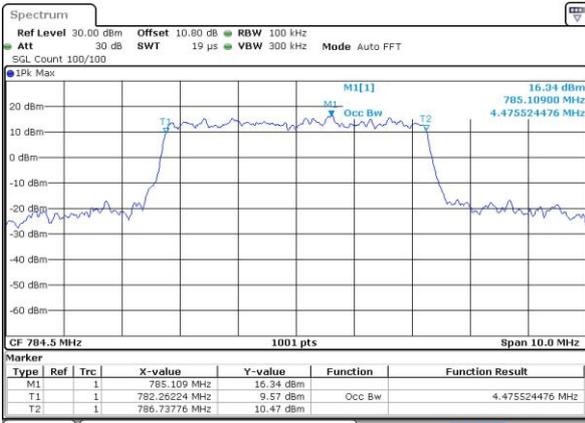
Date: 20 DEC 2016 15:27:31

Middle Channel / 5MHz / 16QAM



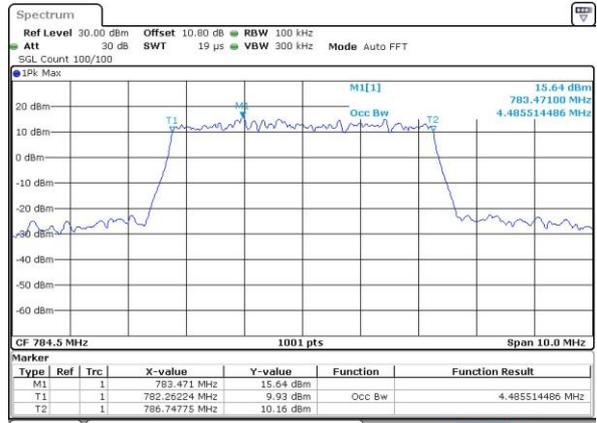
Date: 20 DEC 2016 15:27:20

Highest Channel / 5MHz / QPSK



Date: 20 DEC 2016 15:27:41

Highest Channel / 5MHz / 16QAM

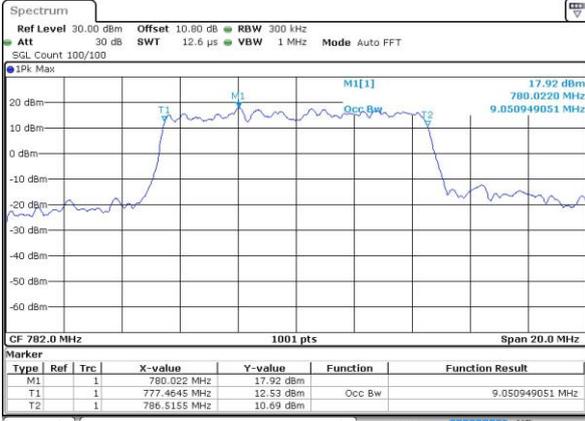


Date: 20 DEC 2016 15:27:52



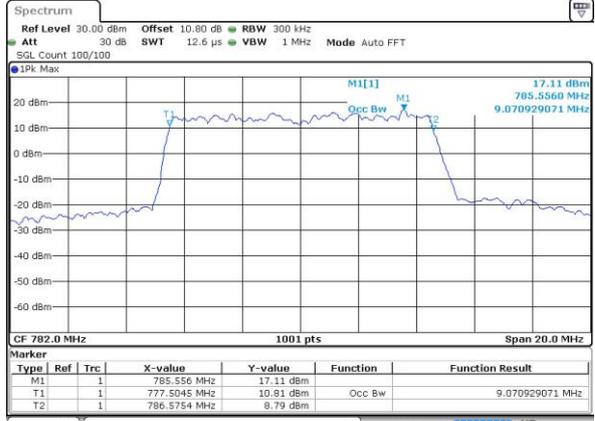
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 20 DEC 2016 15:36:49

Middle Channel / 10MHz / 16QAM



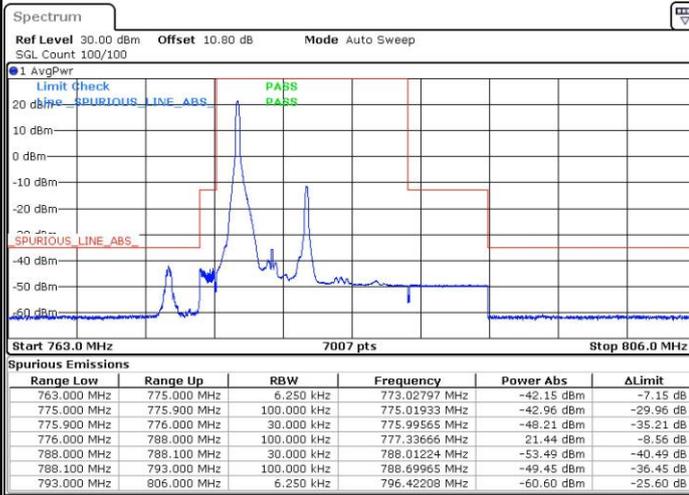
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Conducted Band Edge

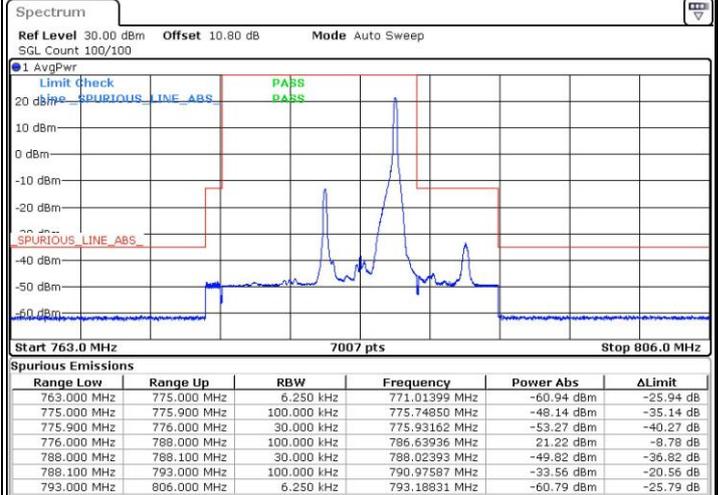
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



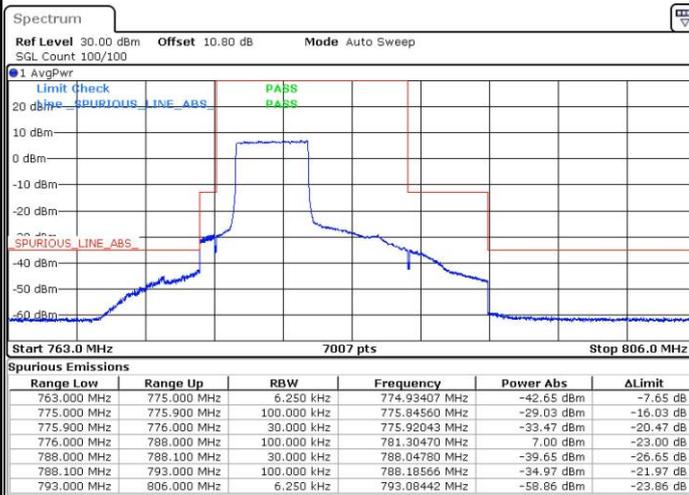
Date: 20 DEC 2016 15:23:11

Highest Band Edge / 1 RB



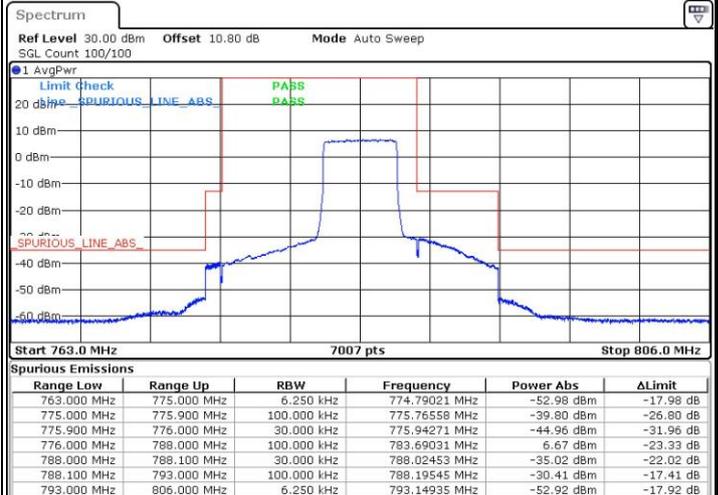
Date: 20 DEC 2016 15:34:50

Lowest Band Edge / Full RB



Date: 20 DEC 2016 15:18:13

Highest Band Edge / Full RB



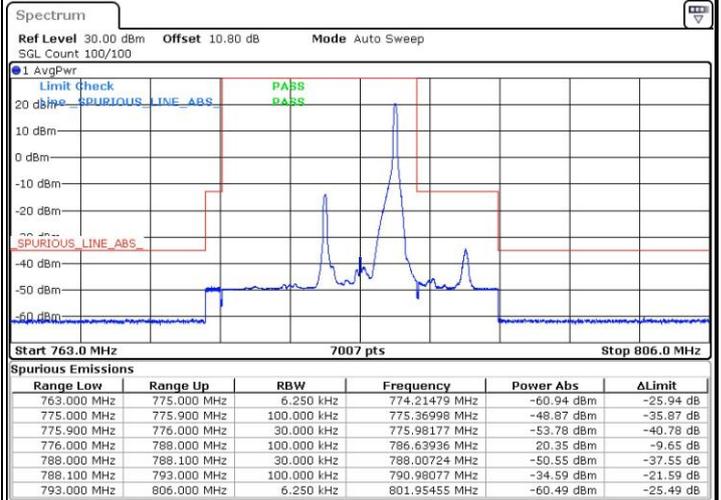
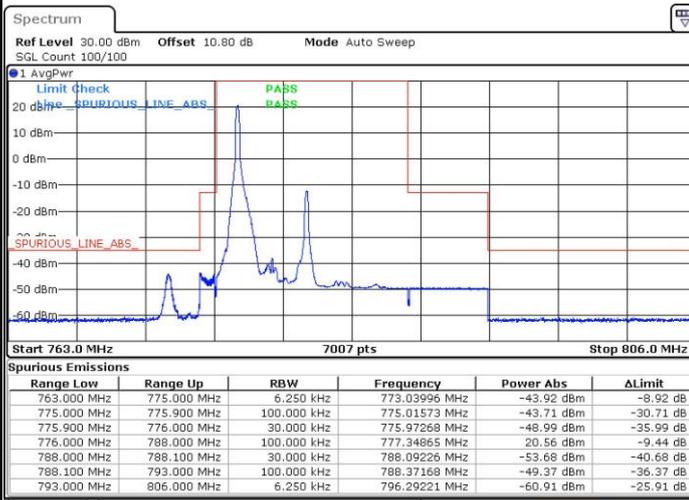
Date: 20 DEC 2016 15:29:51



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

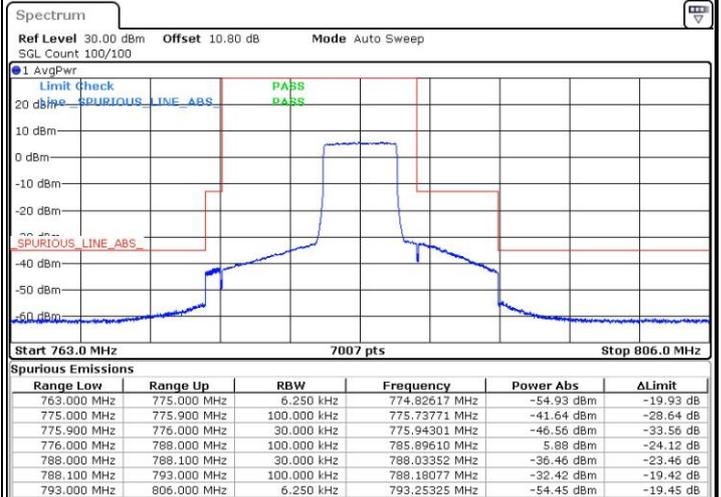


Date: 20 DEC 2016 15:21:32

Date: 20 DEC 2016 15:33:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 20 DEC 2016 15:19:53

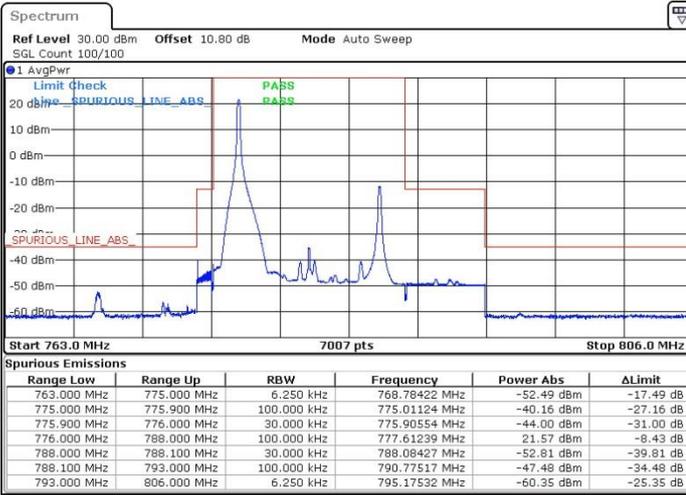
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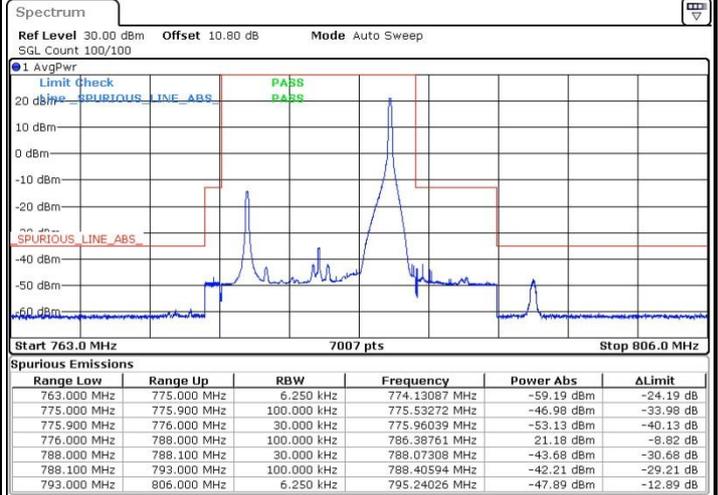
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

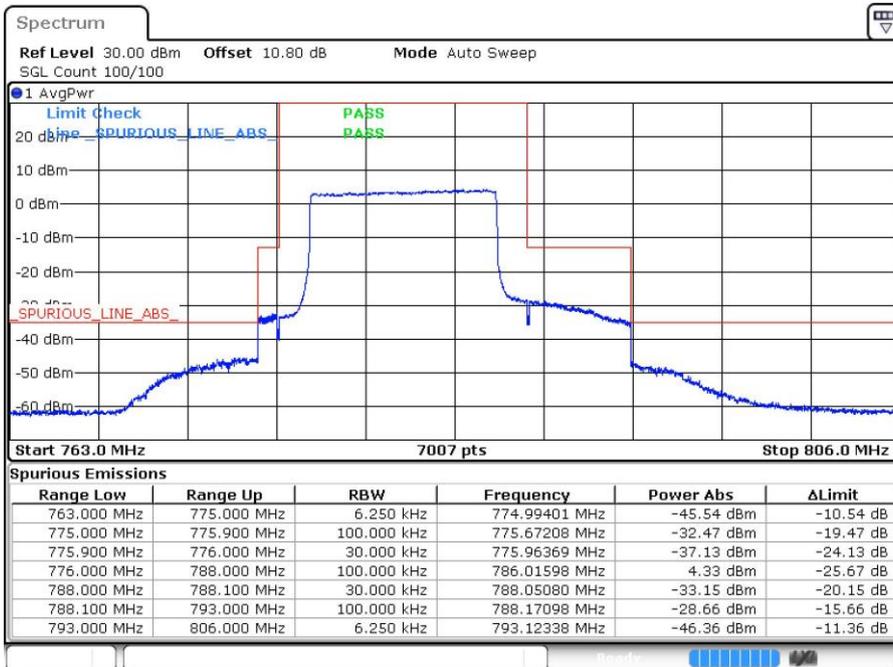


Date: 20 DEC 2016 15:43:57



Date: 20 DEC 2016 15:45:36

Band Edge / Full RB



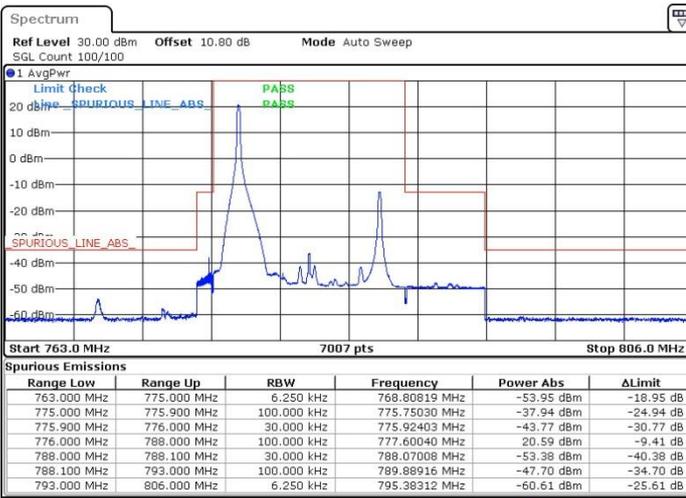
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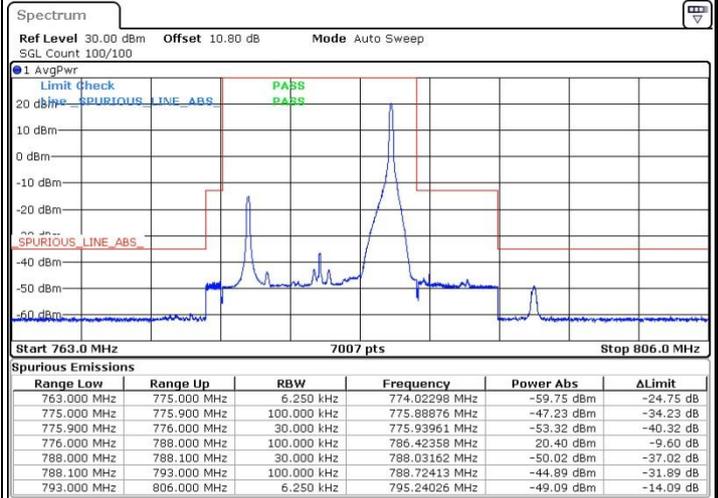
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

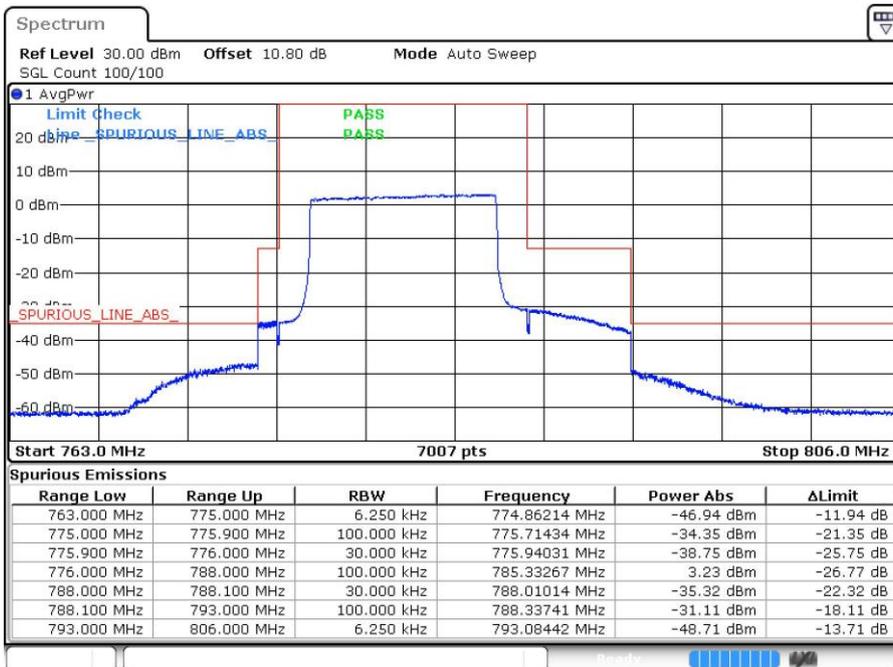


Date: 20 DEC 2016 15:42:18



Date: 20 DEC 2016 15:47:16

Band Edge / Full RB



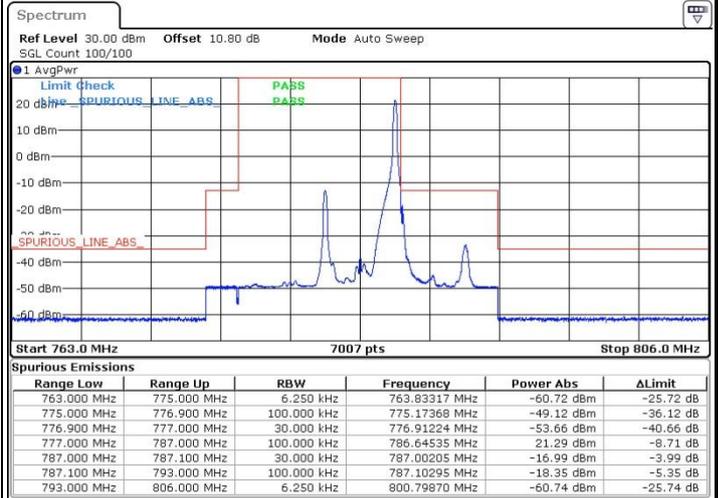
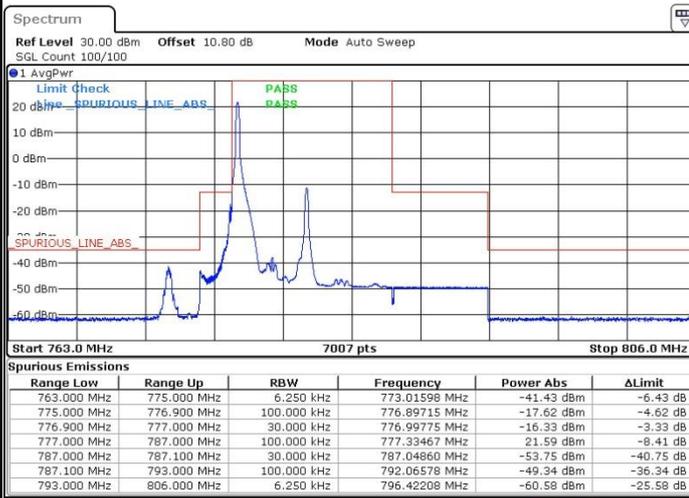
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IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

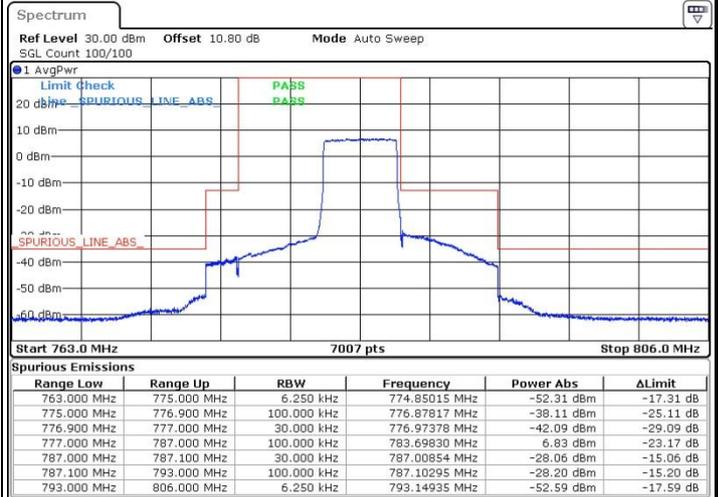
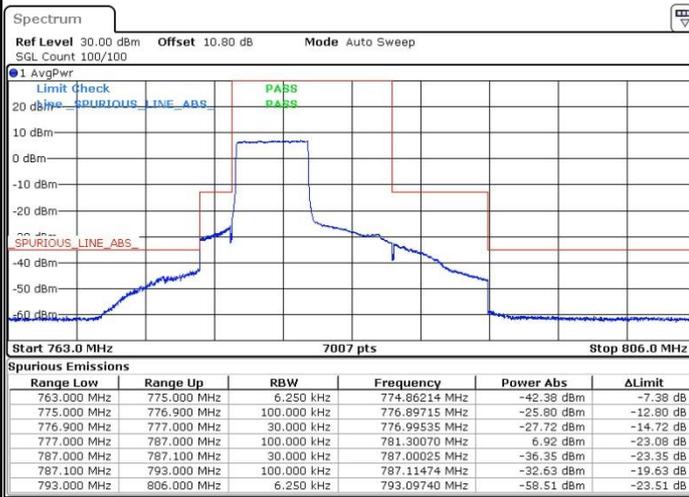


Date: 21 DEC 2016 11:16:16

Date: 21 DEC 2016 11:22:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 DEC 2016 11:11:18

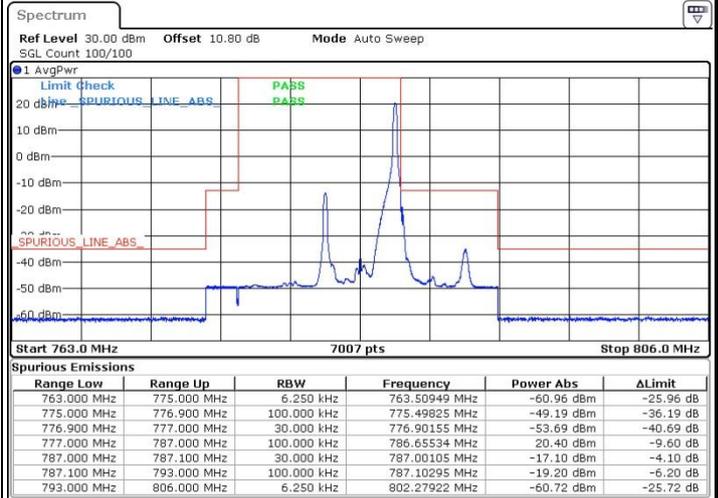
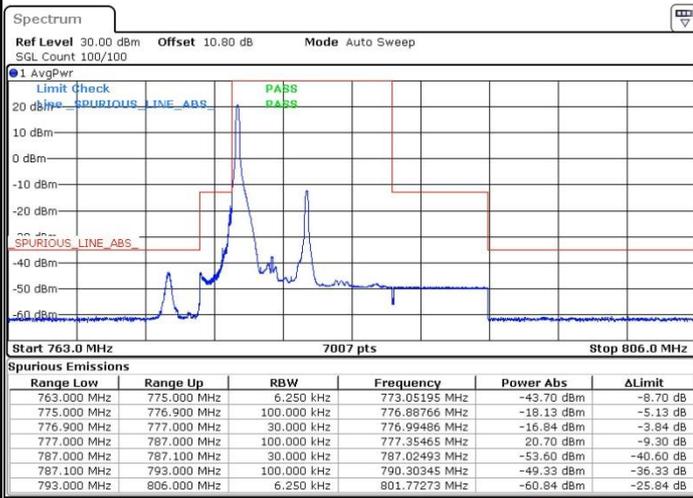
Date: 21 DEC 2016 11:17:55



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

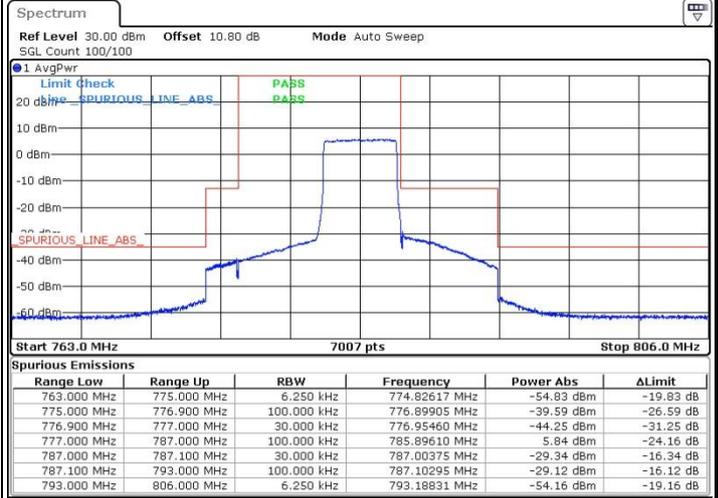
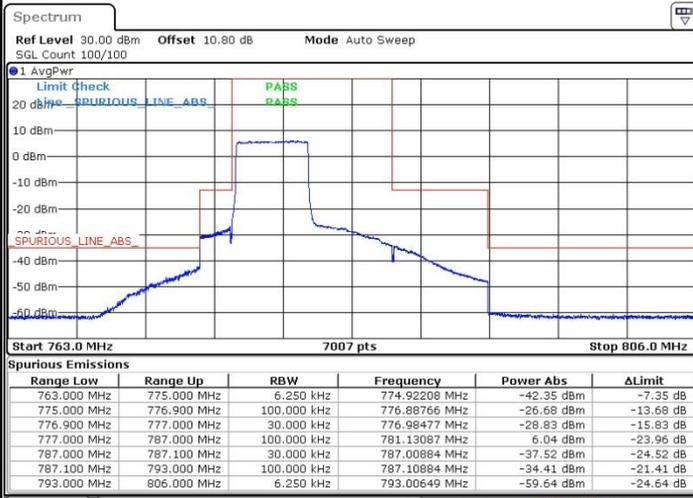


Date: 21 DEC.2016 11:14:36

Date: 21 DEC.2016 11:21:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



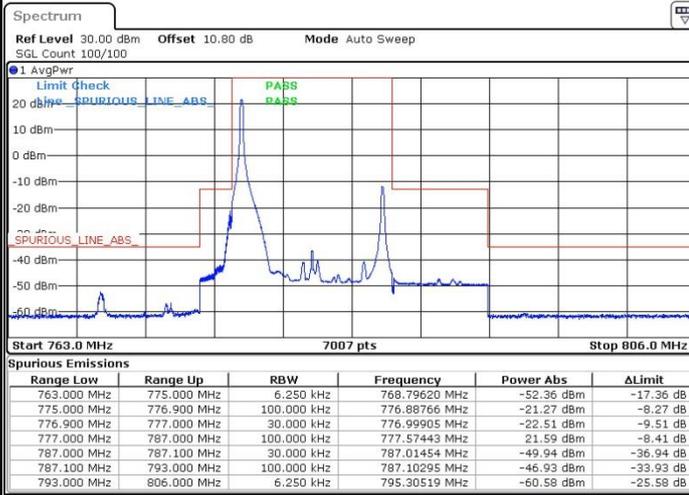
Date: 21 DEC.2016 11:12:57

Date: 21 DEC.2016 11:19:34



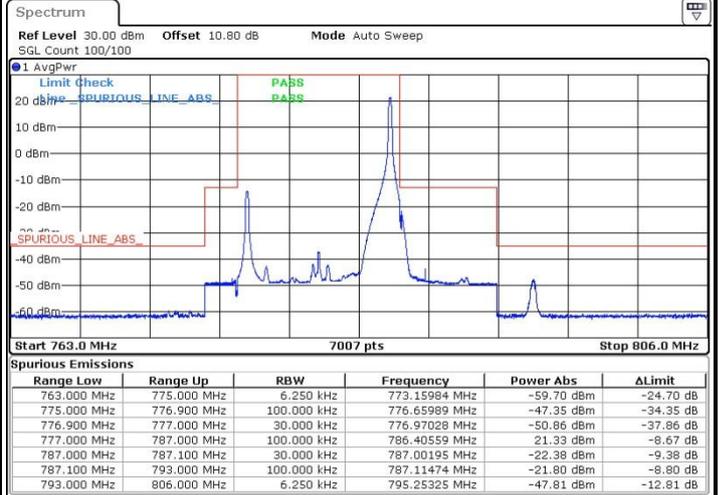
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



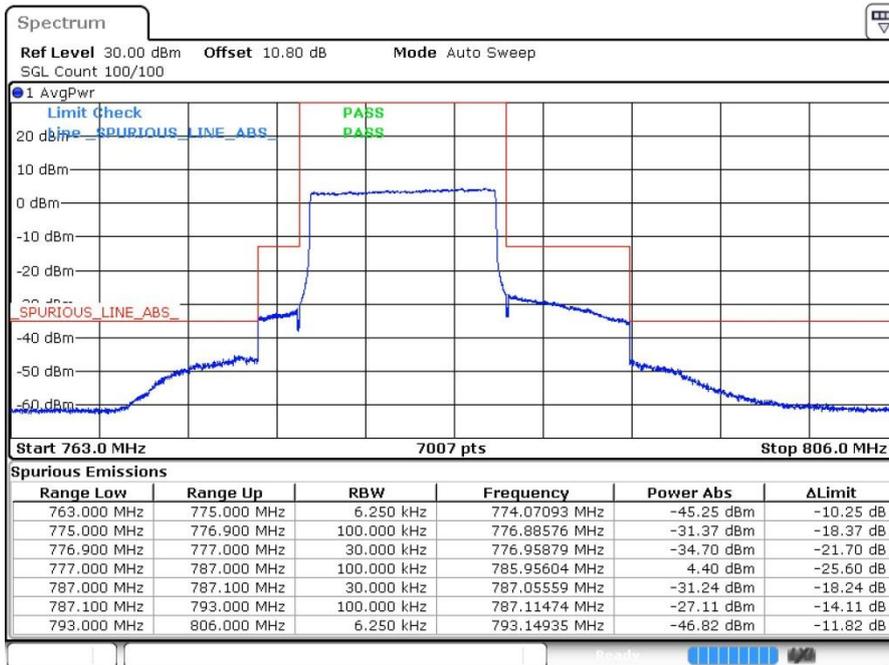
Date: 21 DEC 2016 11:29:30

Highest Band Edge / 1 RB



Date: 21 DEC 2016 11:31:09

Band Edge / Full RB

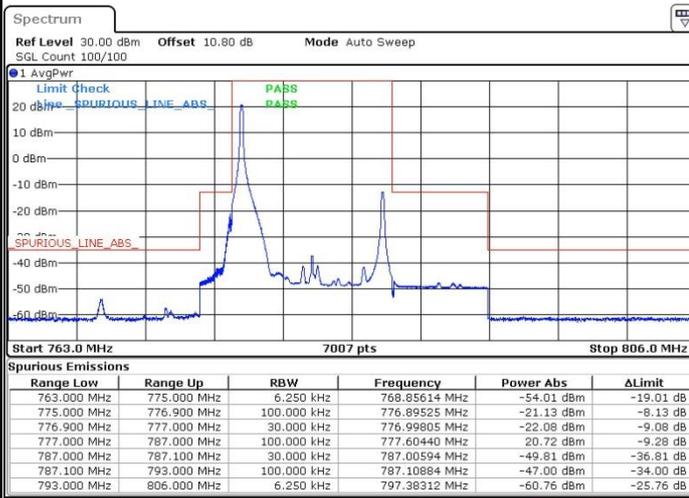


Date: 21 DEC 2016 11:24:32



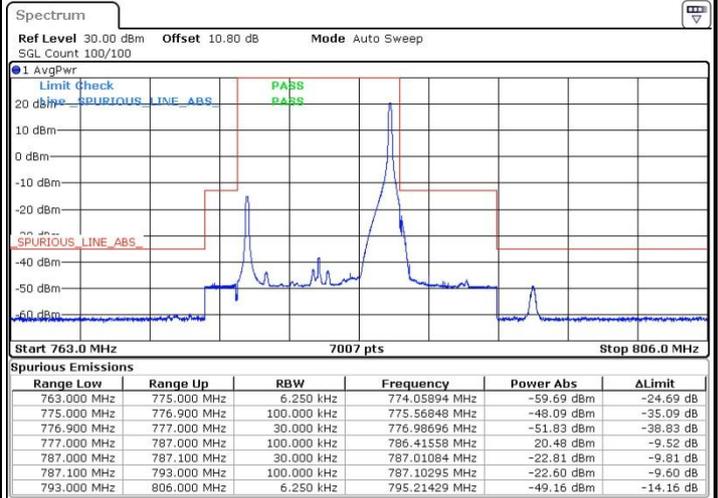
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



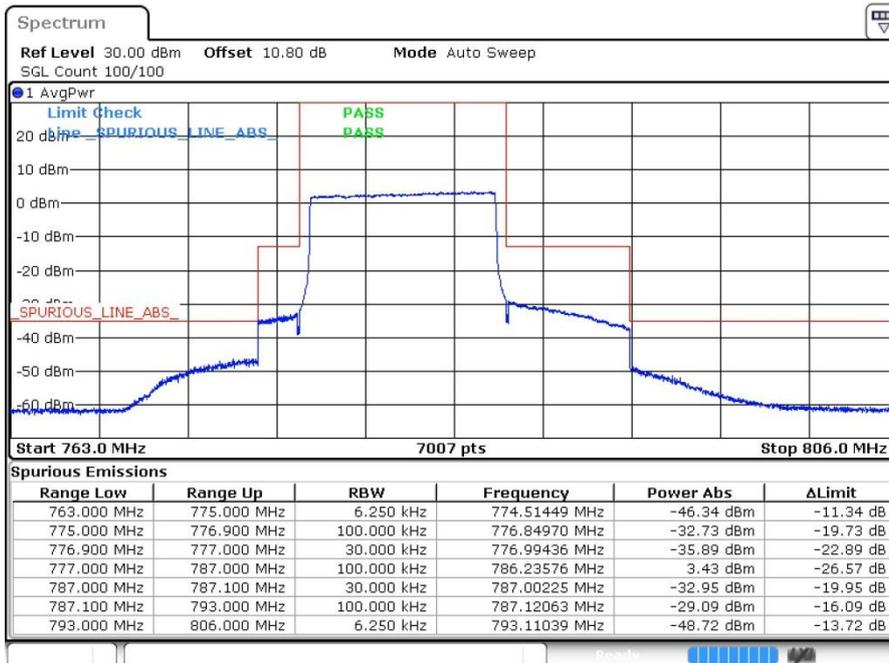
Date: 21 DEC 2016 11:27:51

Highest Band Edge / 1 RB



Date: 21 DEC 2016 11:32:48

Band Edge / Full RB



Date: 21 DEC 2016 11:26:11



Conducted Spurious Emission

