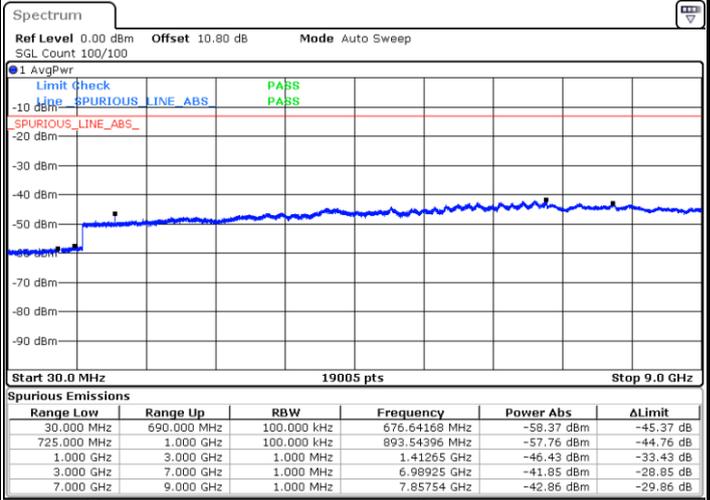
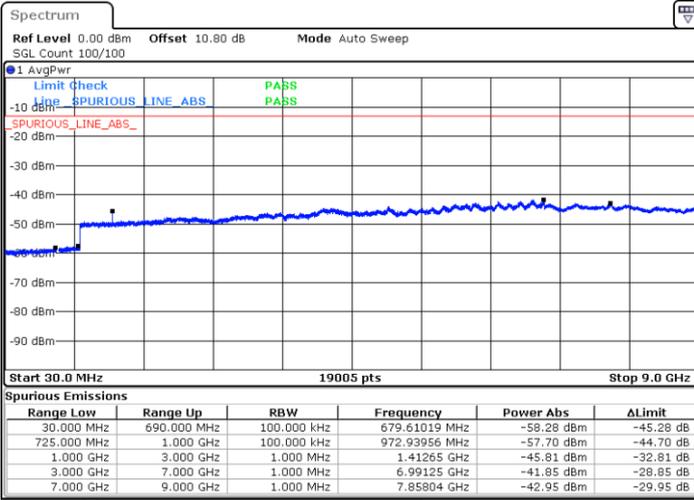




LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

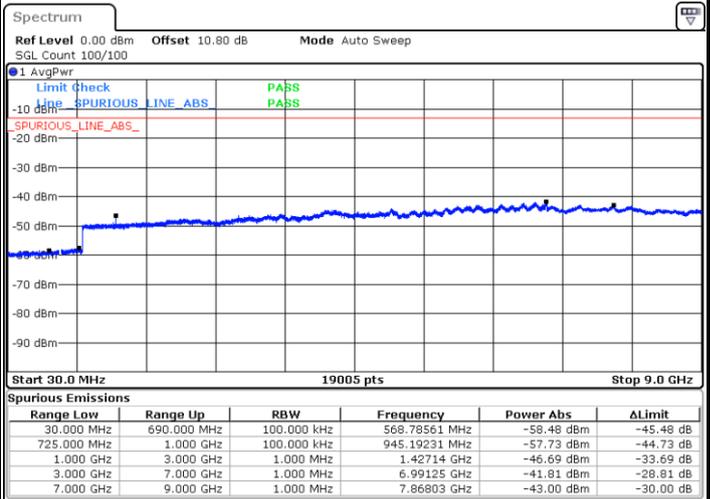
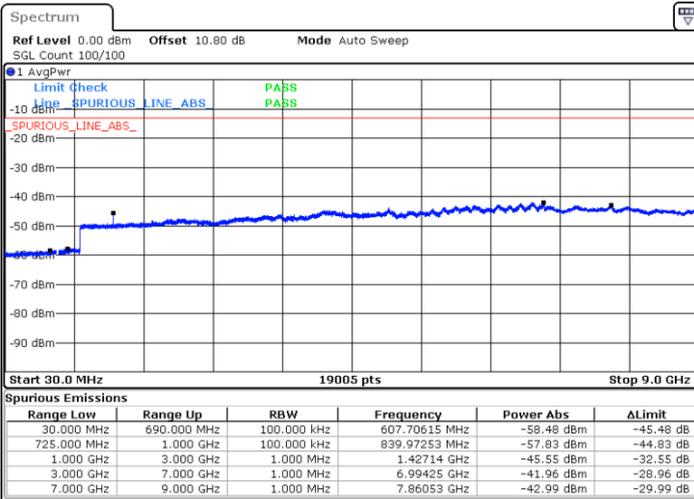


Date: 29 AUG. 2017 13:52:00

Date: 29 AUG. 2017 13:51:06

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 29 AUG. 2017 13:58:08

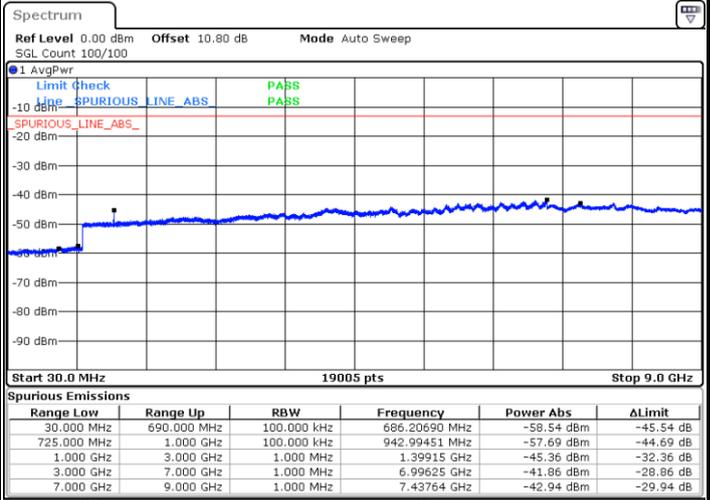
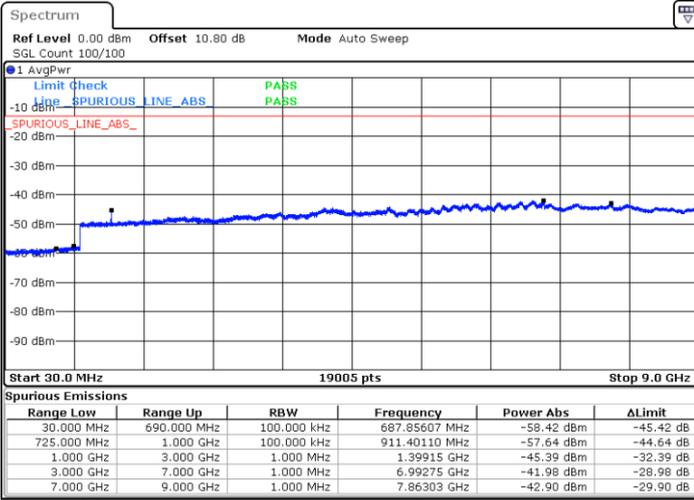
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LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

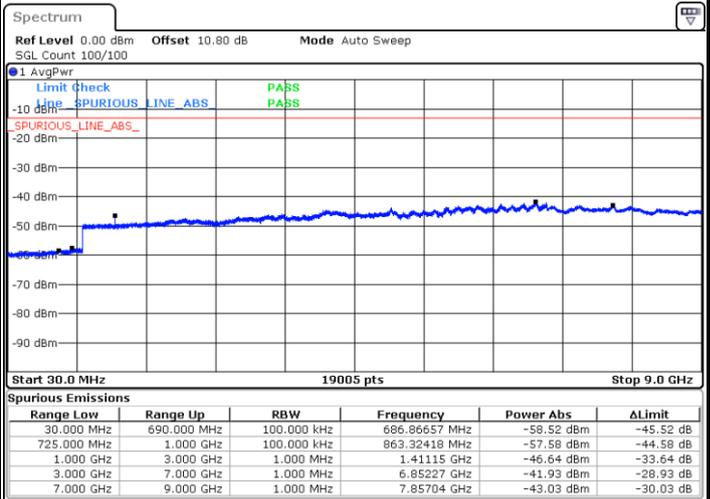
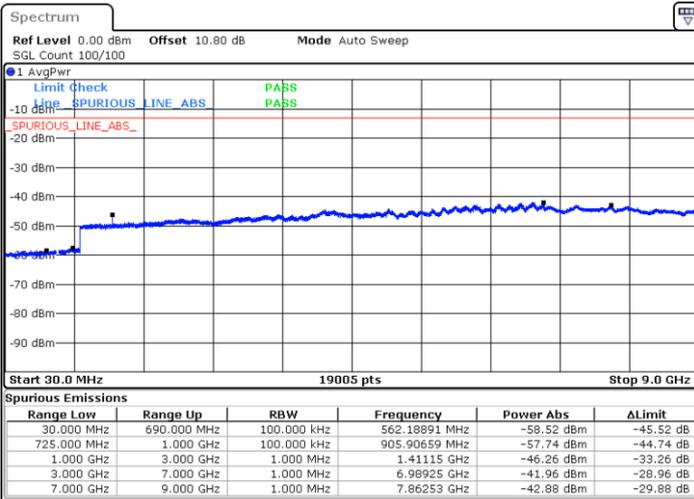


Date: 29 AUG. 2017 14:05:11

Date: 29 AUG. 2017 14:06:05

Middle Channel / QPSK

Middle Channel / 16QAM



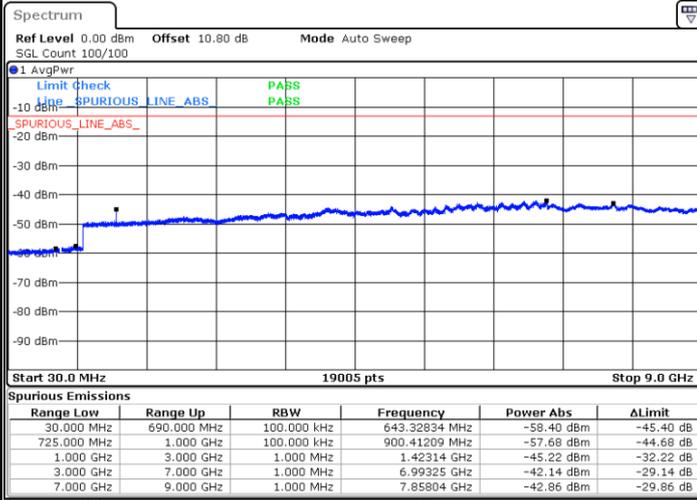
Date: 29 AUG. 2017 14:08:32

Date: 29 AUG. 2017 14:07:38



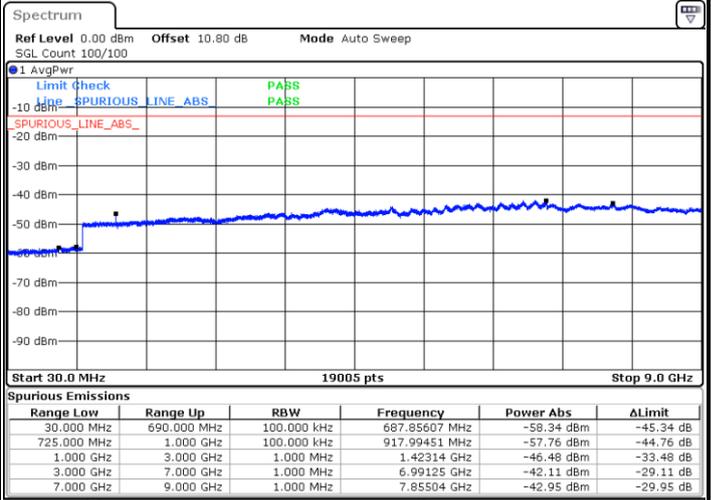
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 29 AUG 2017 14:15:34

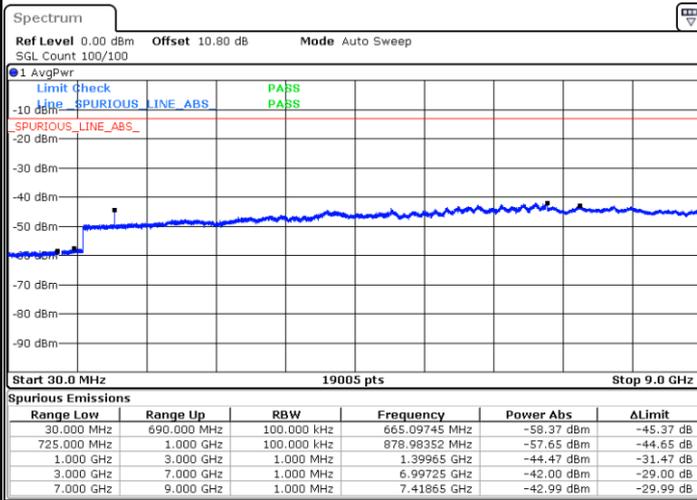
Highest Channel / 16QAM



Date: 29 AUG 2017 14:14:41

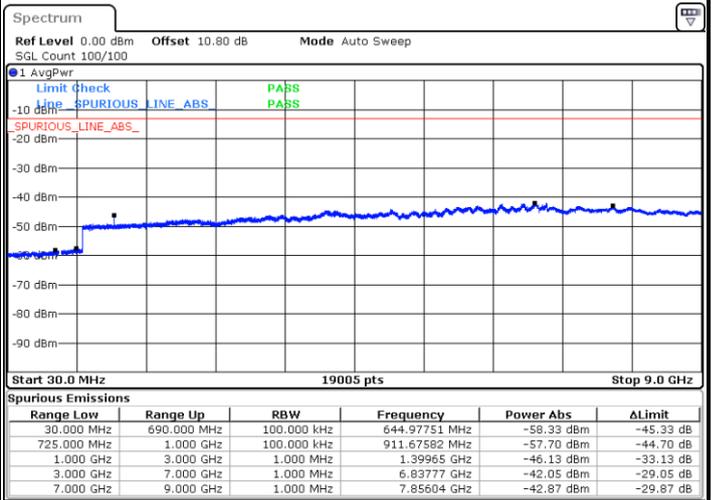
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 29 AUG 2017 14:21:43

Lowest Channel / 16QAM



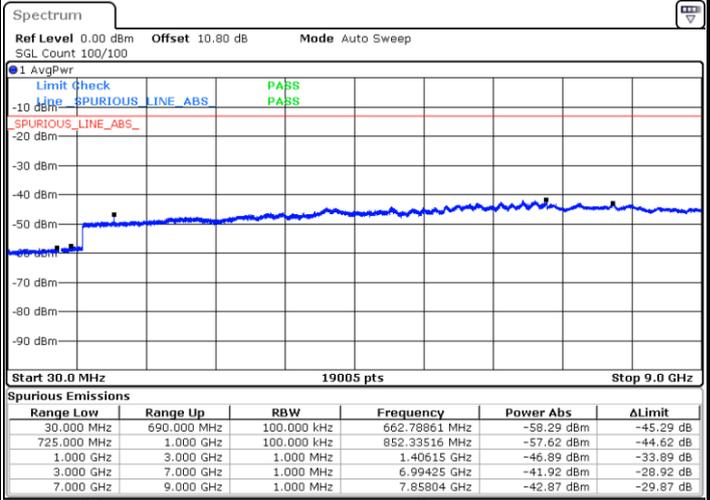
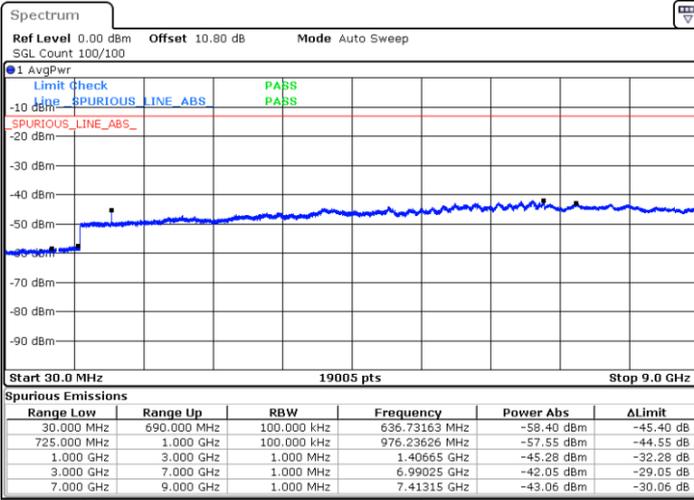
Date: 29 AUG 2017 14:22:37



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

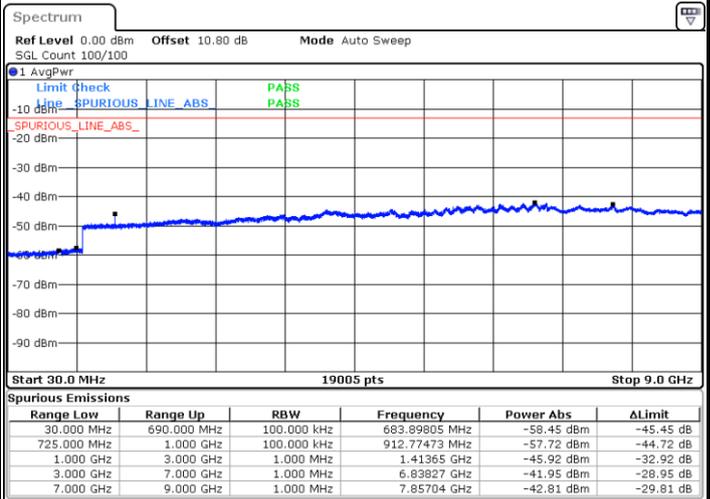
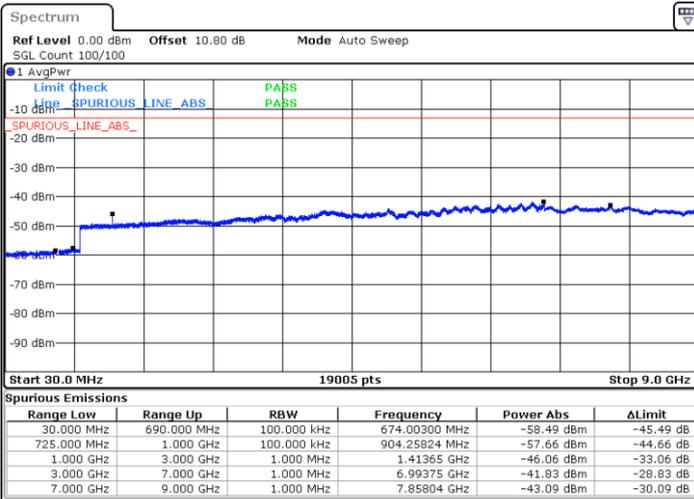


Date: 29 AUG. 2017 14:25:04

Date: 29 AUG. 2017 14:24:11

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 29 AUG. 2017 14:31:13

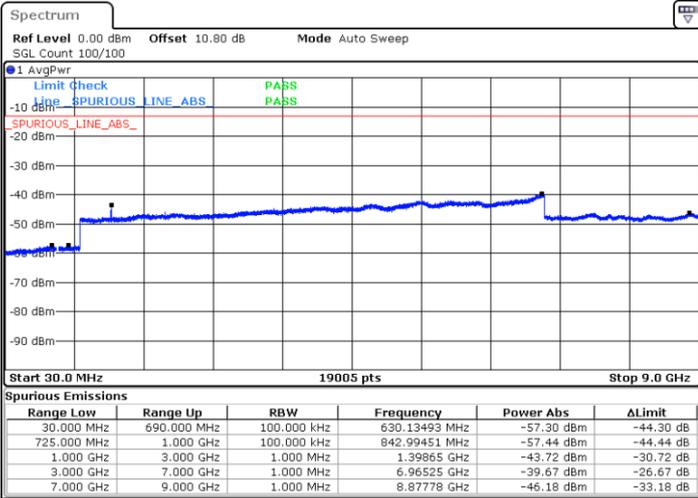
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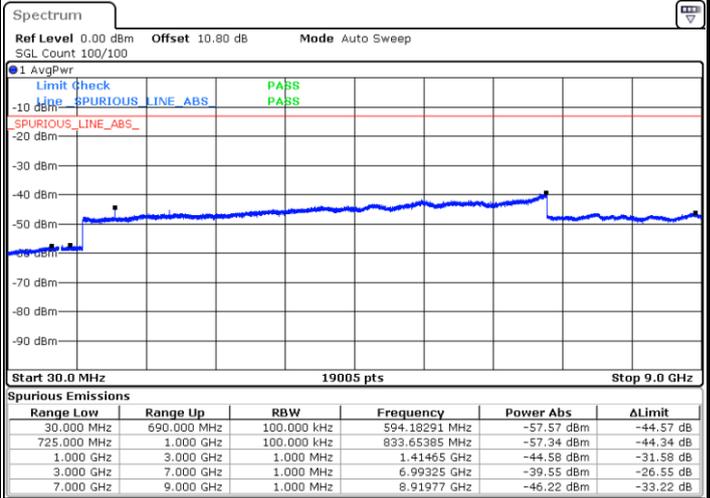
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

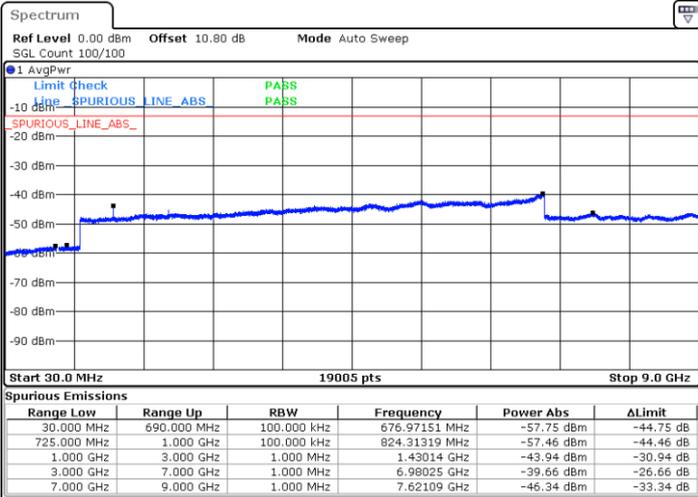


Date: 31.OCT.2017 20:07:56



Date: 31.OCT.2017 20:09:17

Highest Channel / 64QAM



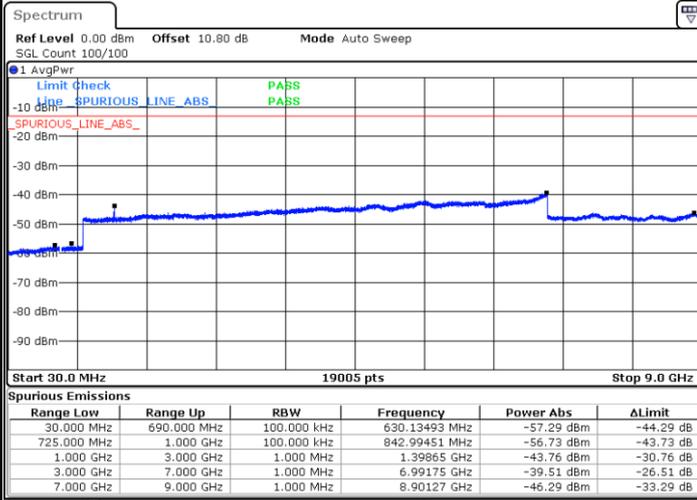
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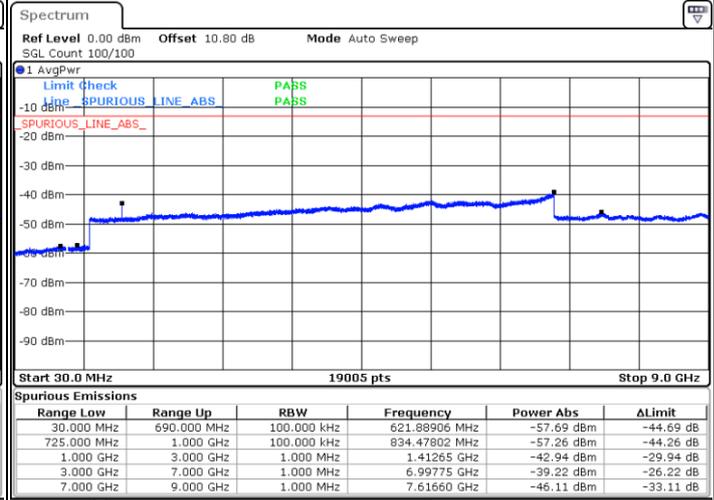
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

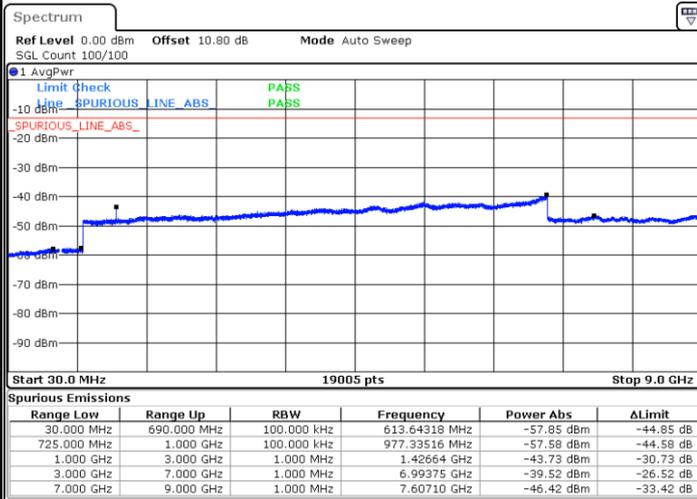


Date: 31.OCT.2017 19:41:56



Date: 31.OCT.2017 19:43:17

Highest Channel / 64QAM



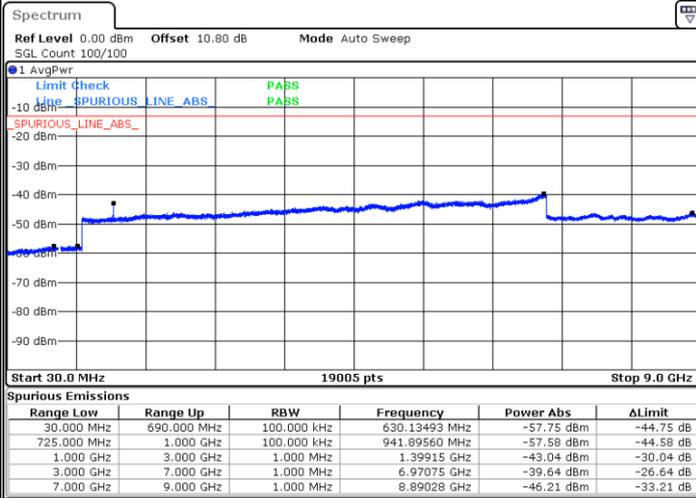
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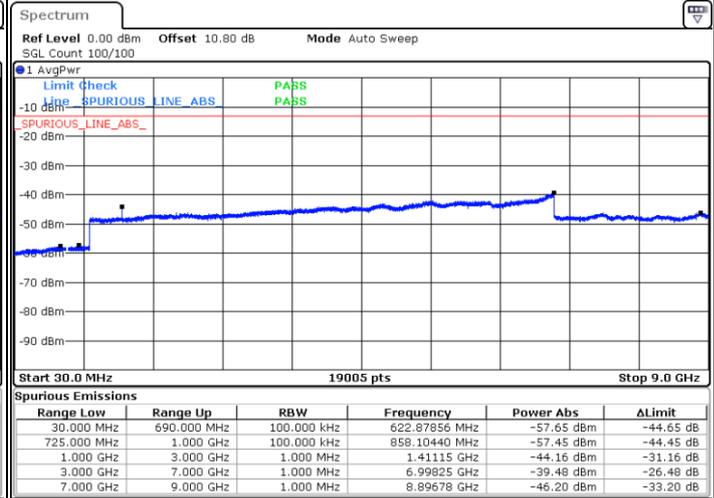
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

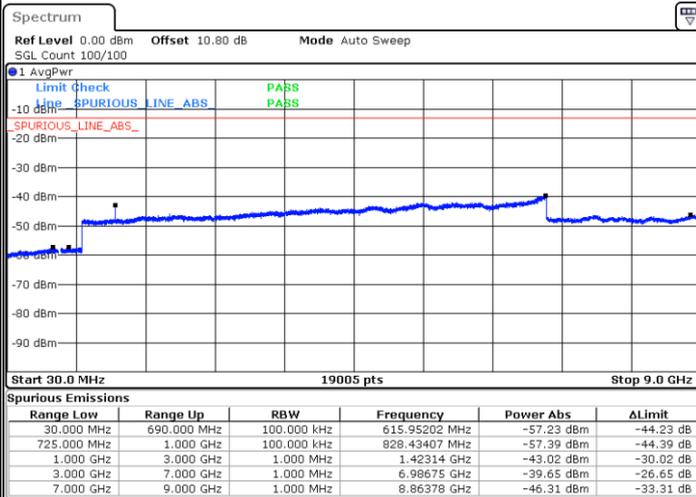


Date: 31.OCT.2017 19:50:37



Date: 31.OCT.2017 19:51:58

Highest Channel / 64QAM



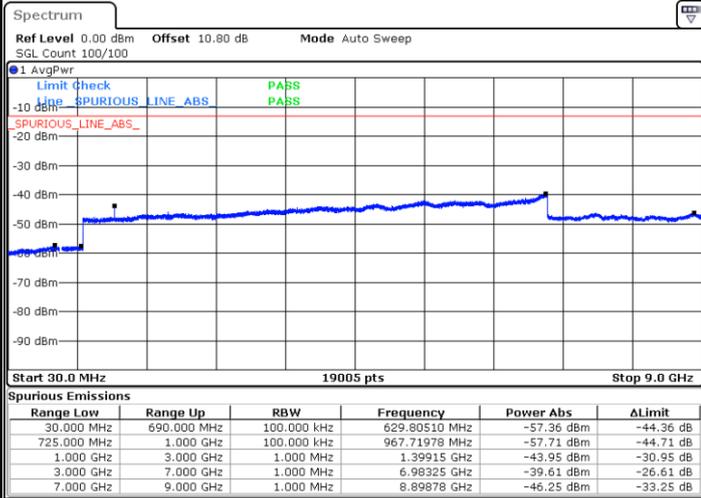
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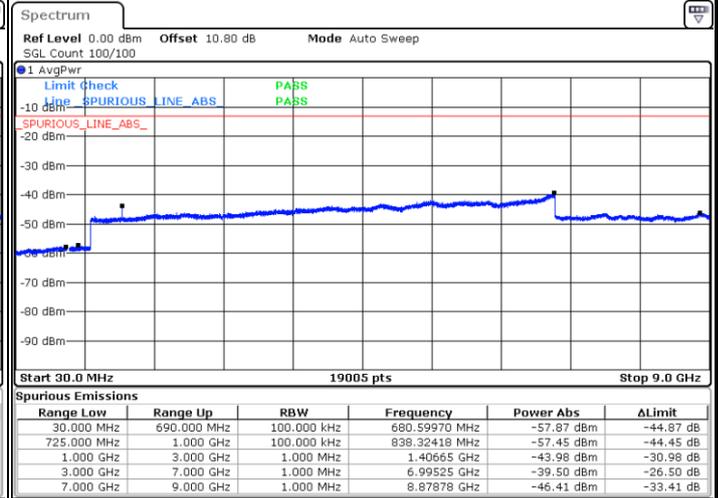
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

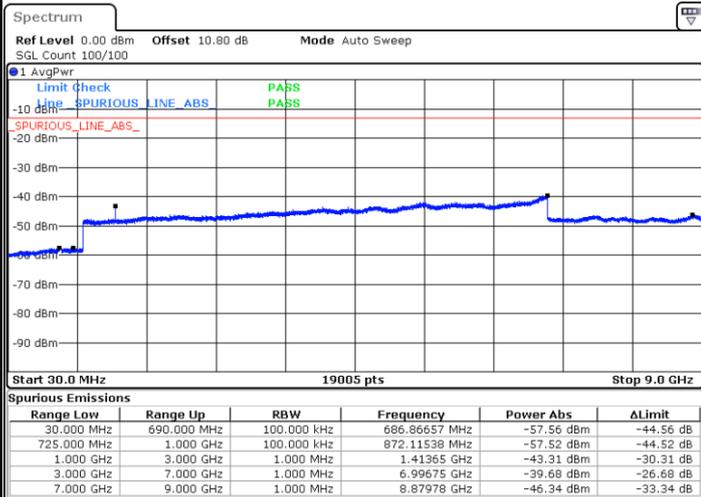


Date: 31.OCT.2017 19:59:16



Date: 31.OCT.2017 20:00:38

Highest Channel / 64QAM



Date: 31.OCT.2017 20:04:17



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	0.0100	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0081	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0098	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0071	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

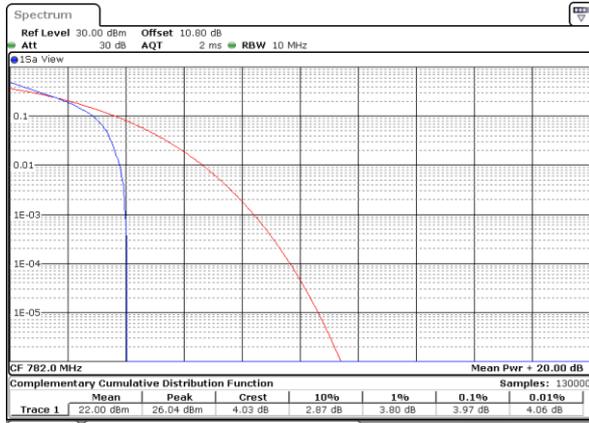
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.97	4.78	4.75	5.83	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.55	5.83	-	-	
Highest CH	-	-	-	-	



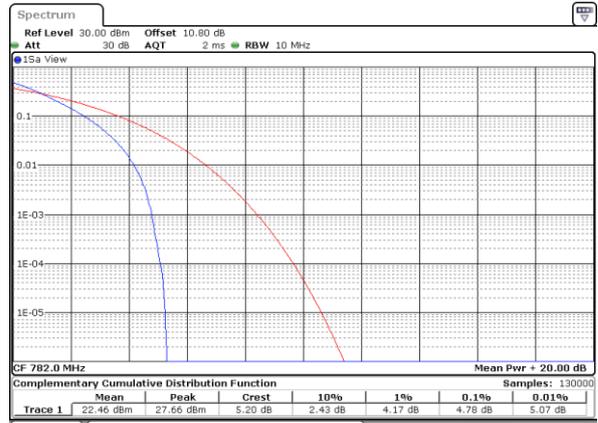
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 6 SEP 2017 20:08:09

Middle Channel / Full RB



Date: 6 SEP 2017 20:08:22

LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 6 SEP 2017 20:07:50

Middle Channel / Full RB



Date: 6 SEP 2017 20:07:59

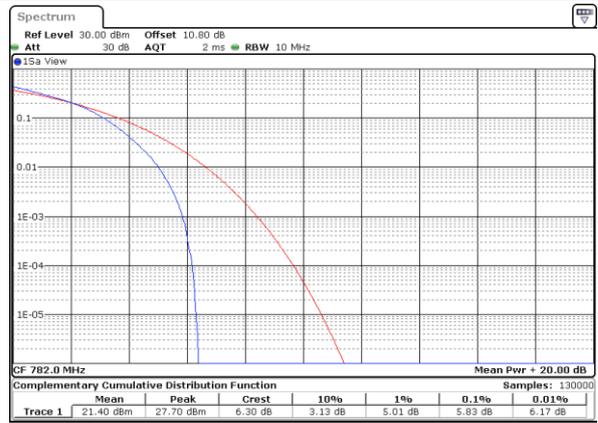
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 31.OCT.2017 21:06:32

Middle Channel / Full RB



Date: 31.OCT.2017 21:06:44



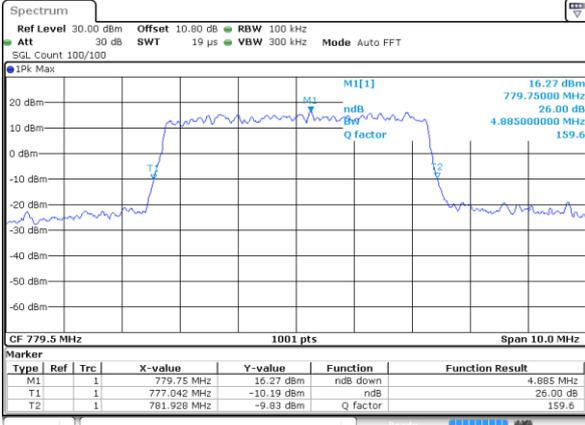
26dB Bandwidth

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	-	-	-	-	4.89	4.89	-	-	-	-	-	-
Middle CH	-	-	-	-	4.90	4.90	9.93	9.73	-	-	-	-
Highest CH	-	-	-	-	4.95	4.87	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.86	-	9.87	-	-	-	-	-
Highest CH	-	-	-	-	4.9	-	-	-	-	-	-	-



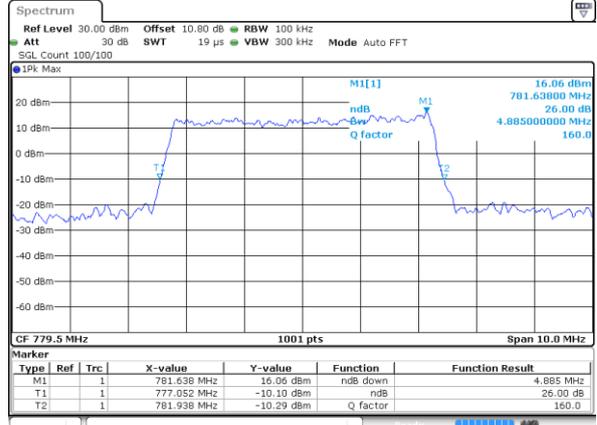
LTE Band 13

Lowest Channel / 5MHz / QPSK



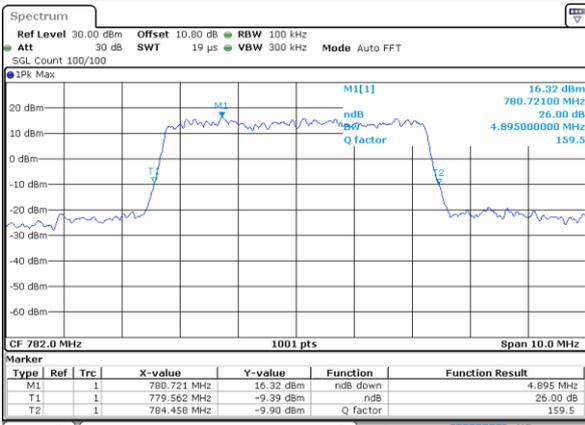
Date: 6 SEP.2017 19:34:20

Lowest Channel / 5MHz / 16QAM



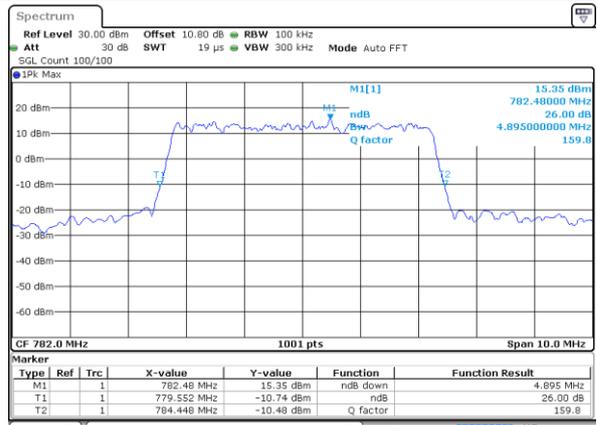
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Middle Channel / 5MHz / QPSK



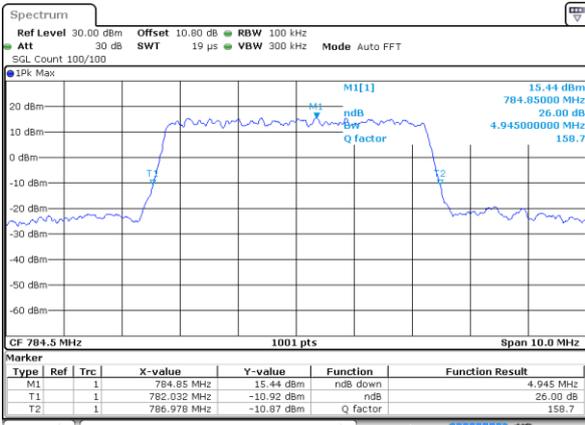
Date: 6 SEP.2017 19:44:40

Middle Channel / 5MHz / 16QAM



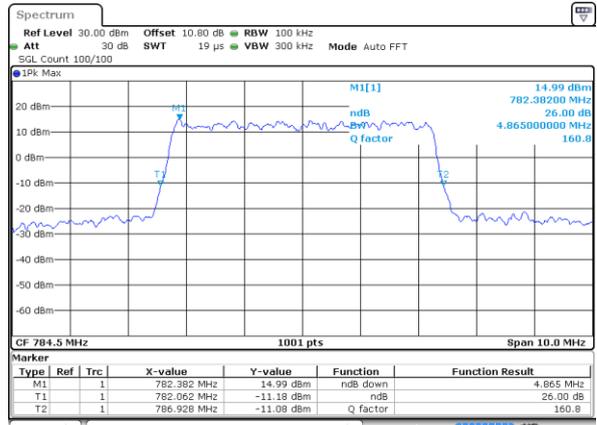
Date: 6 SEP.2017 19:44:50

Highest Channel / 5MHz / QPSK



Date: 6 SEP.2017 19:45:50

Highest Channel / 5MHz / 16QAM

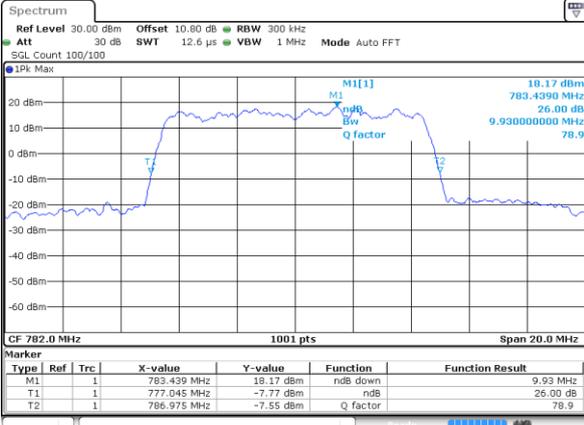


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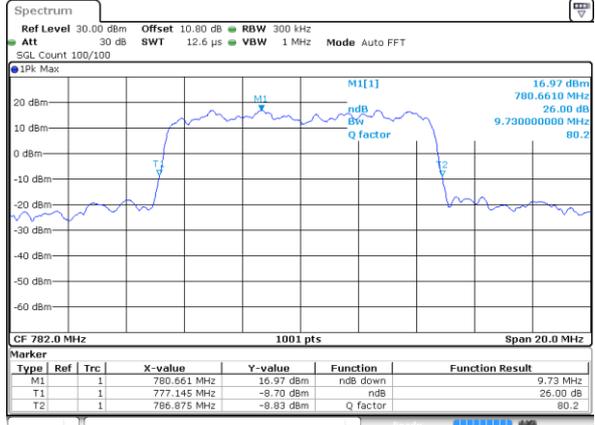
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 6 SEP 2017 19:54:52

Middle Channel / 10MHz / 16QAM

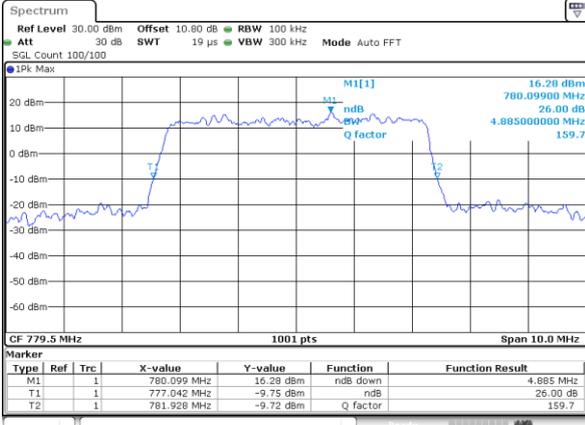


Date: 6 SEP 2017 19:54:42



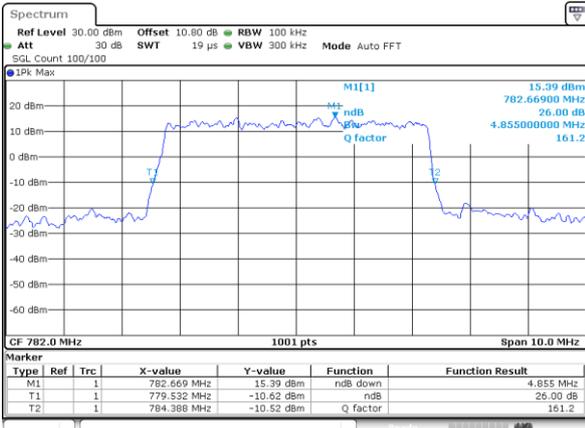
LTE Band 13

Lowest Channel / 5MHz / 64QAM



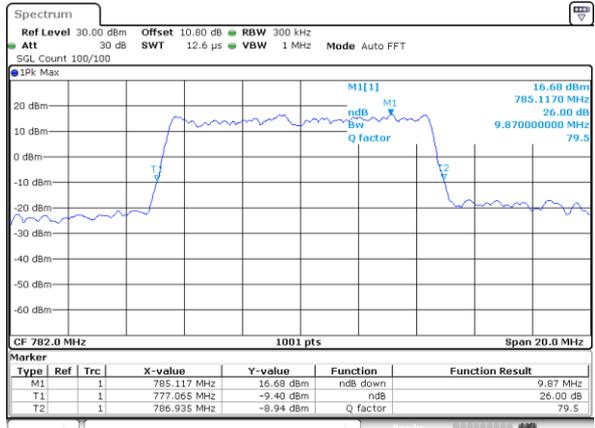
Date: 31.OCT.2017 20:48:18

Middle Channel / 5MHz / 64QAM



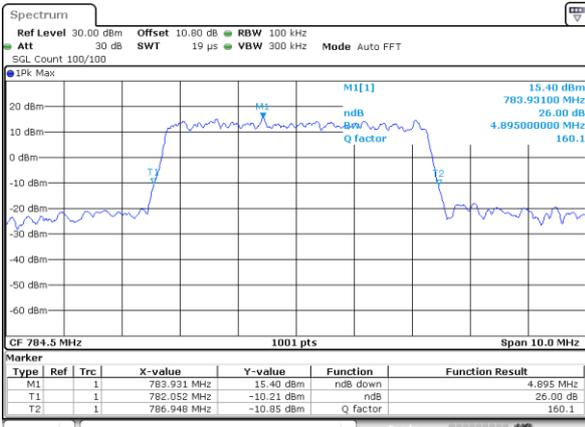
Date: 31.OCT.2017 20:53:43

Middle Channel / 10MHz / 64QAM



Date: 31.OCT.2017 20:58:56

Highest Channel / 5MHz / 64QAM



Date: 31.OCT.2017 20:54:17



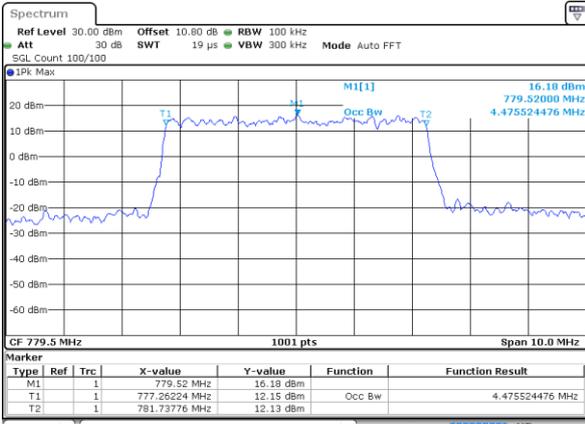
Occupied Bandwidth

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	4.51	-	-	-	-	-	-
Middle CH	-	-	-	-	4.5	4.49	8.99	9.01	-	-	-	-
Highest CH	-	-	-	-	4.5	4.5	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.5	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.5	-	-	-	-	-	-	-



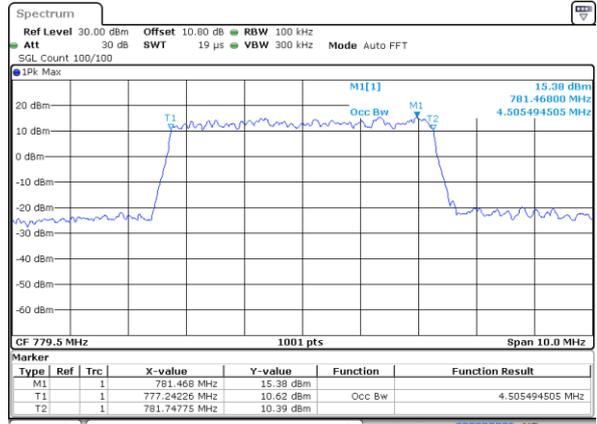
LTE Band 13

Lowest Channel / 5MHz / QPSK



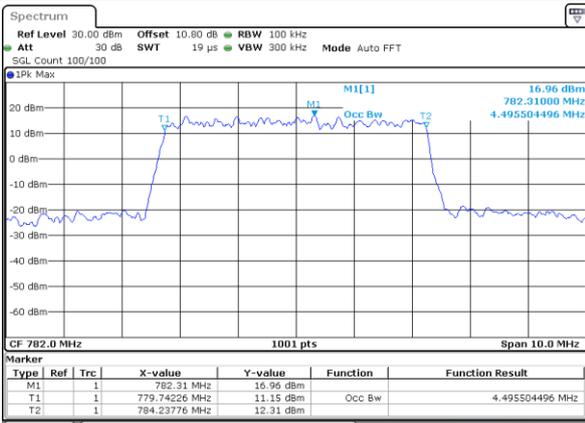
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Lowest Channel / 5MHz / 16QAM



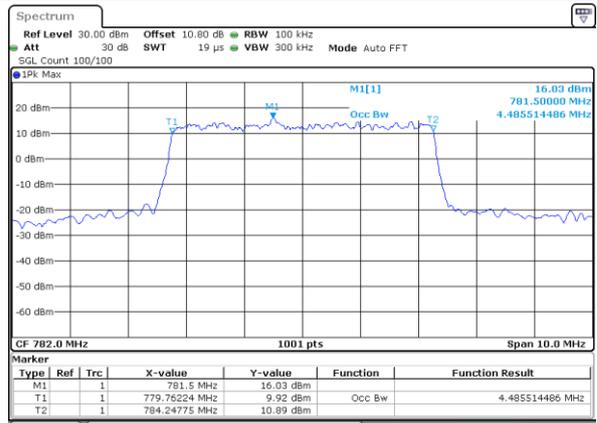
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Middle Channel / 5MHz / QPSK



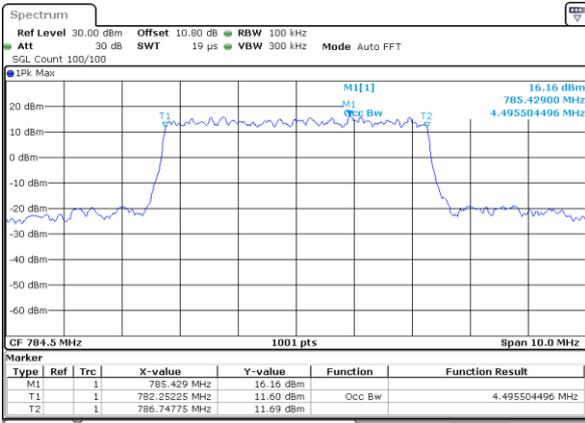
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Middle Channel / 5MHz / 16QAM



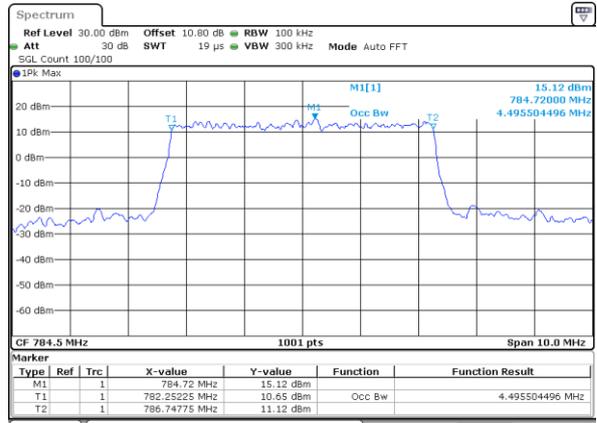
Date: 6 SEP 2017 19:45:00

Highest Channel / 5MHz / QPSK



Date: 6 SEP 2017 19:45:20

Highest Channel / 5MHz / 16QAM

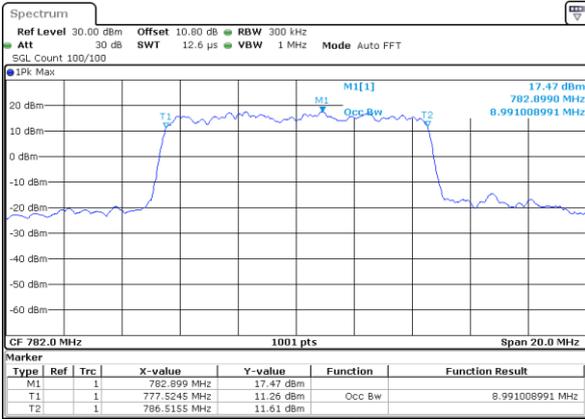


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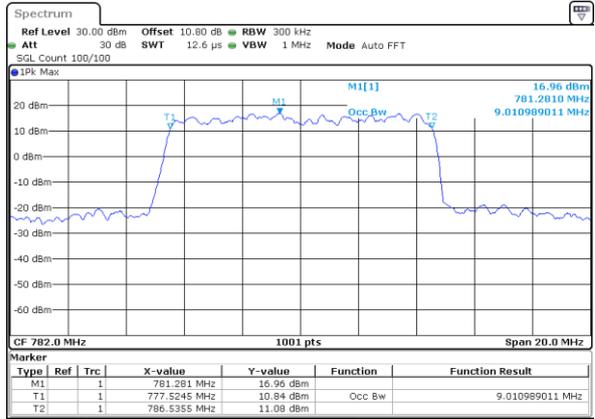
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 6 SEP 2017 19:54:22

Middle Channel / 10MHz / 16QAM

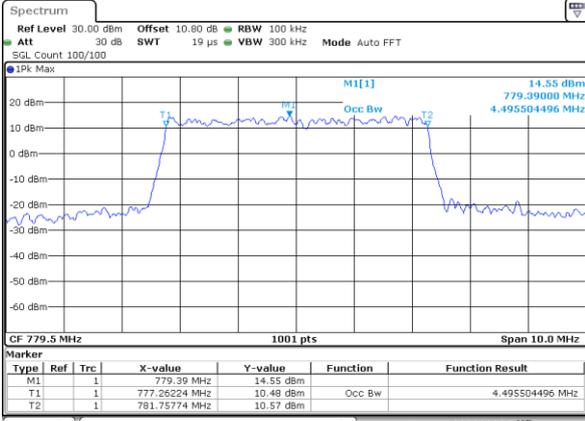


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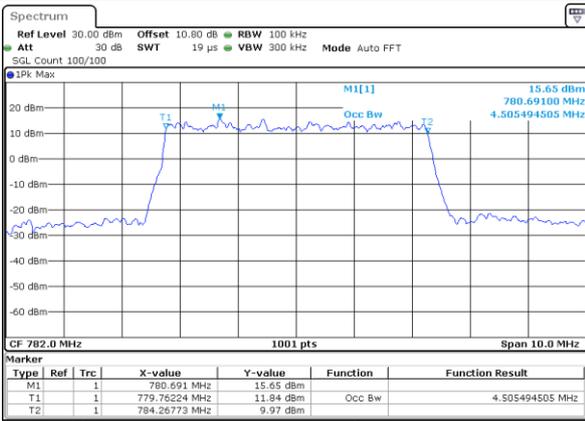
LTE Band 13

Lowest Channel / 5MHz / 64QAM



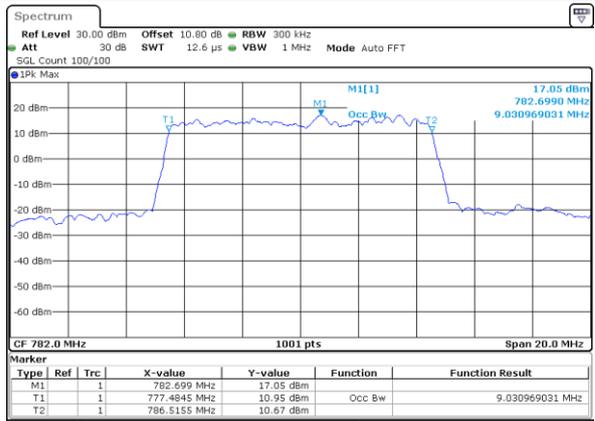
Date: 31.OCT.2017 20:48:06

Middle Channel / 5MHz / 64QAM



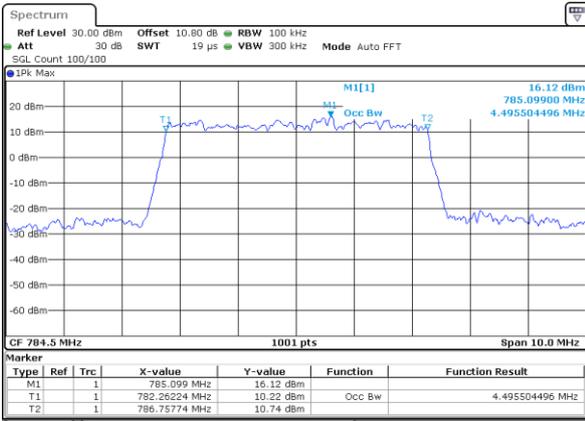
Date: 31.OCT.2017 20:53:54

Middle Channel / 10MHz / 64QAM



Date: 31.OCT.2017 20:58:44

Highest Channel / 5MHz / 64QAM



Date: 31.OCT.2017 20:54:06



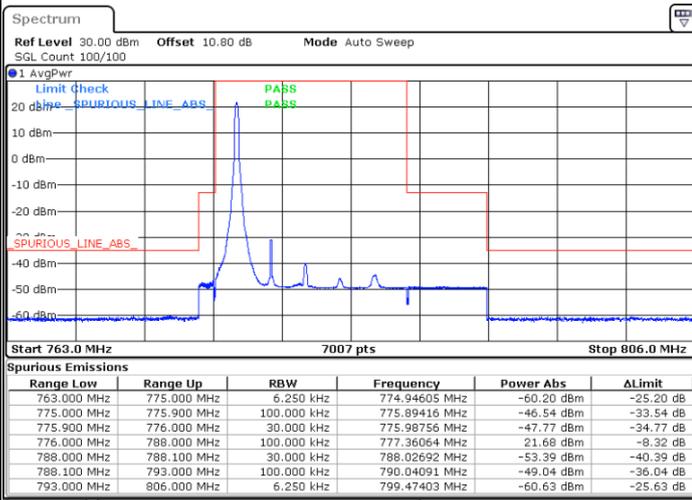
Conducted Band Edge



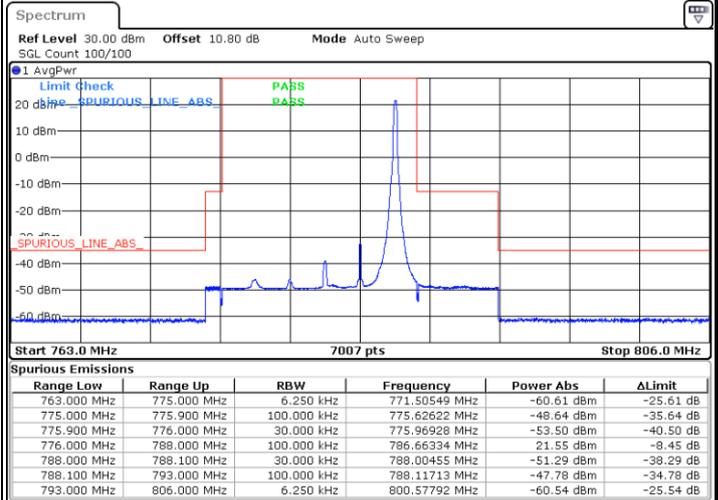
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



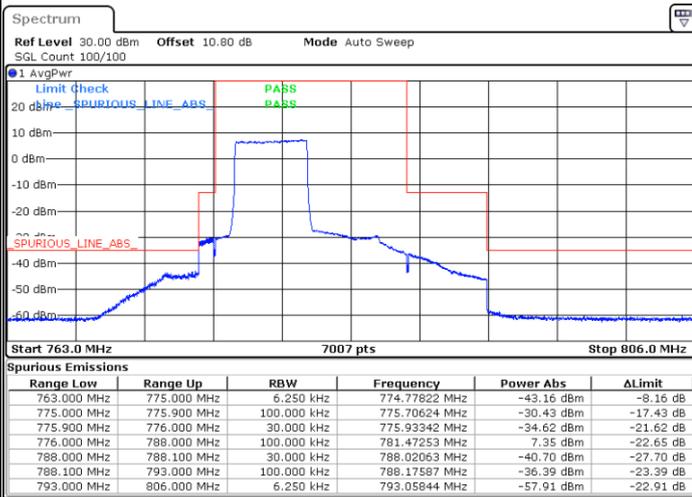
Date: 6 SEP.2017 19:40:55



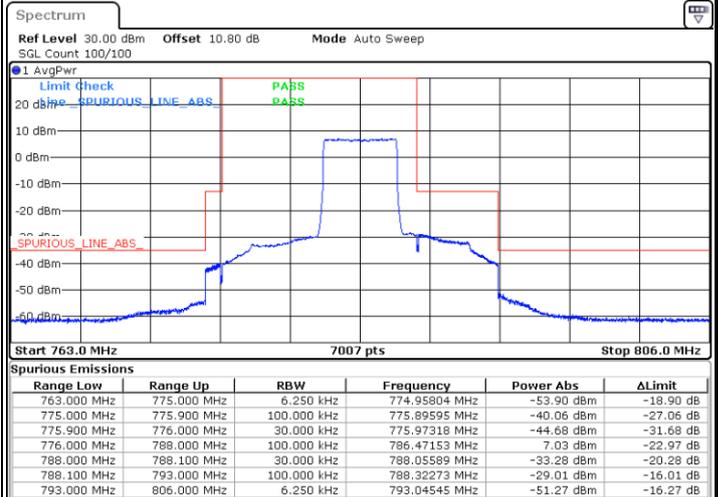
Date: 6 SEP.2017 19:52:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6 SEP.2017 19:35:59



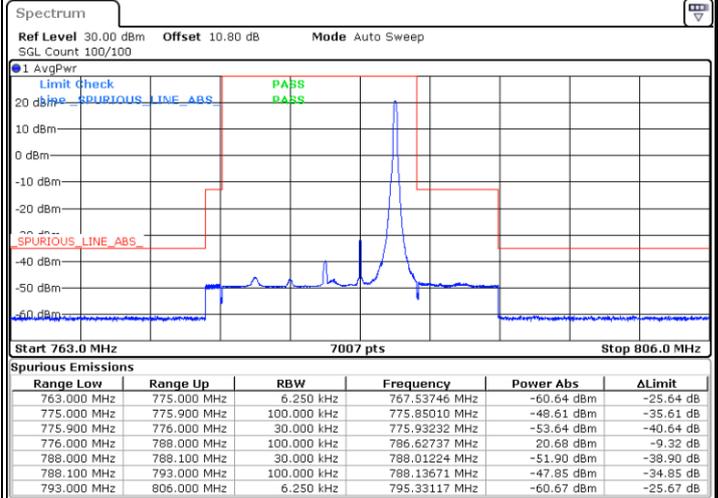
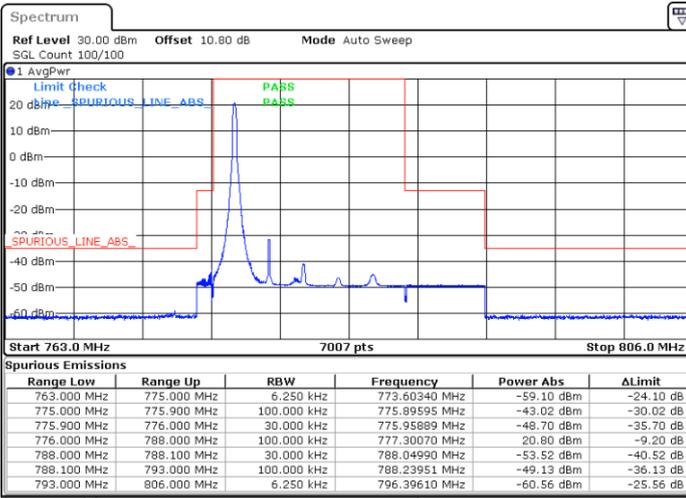
Date: 6 SEP.2017 19:47:28



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

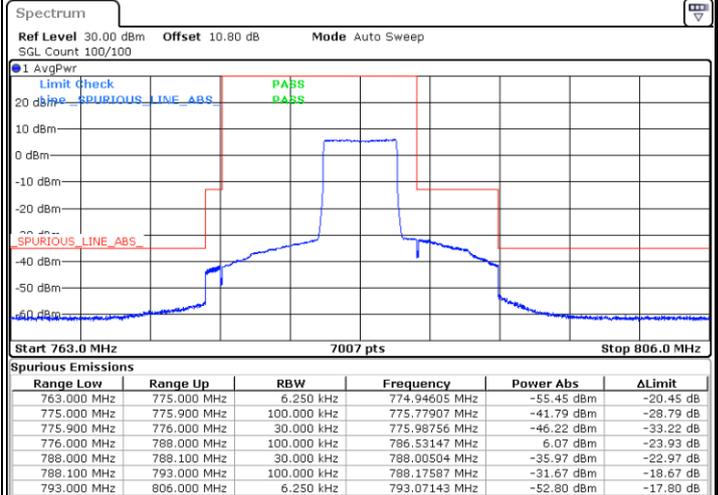
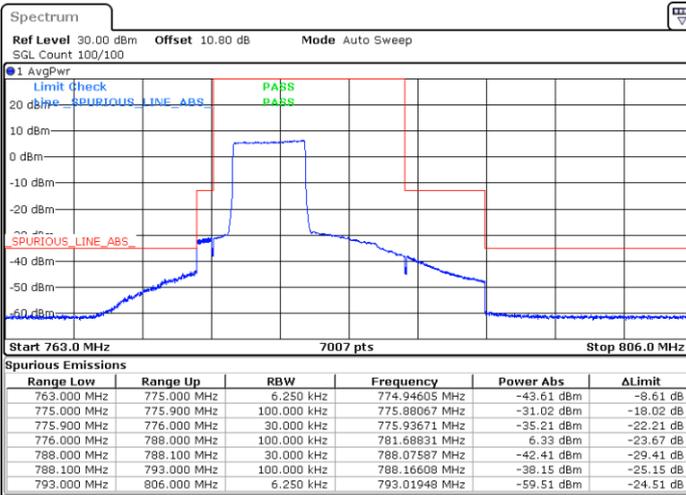


Date: 6 SEP.2017 19:39:16

Date: 6 SEP.2017 19:50:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6 SEP.2017 19:37:37

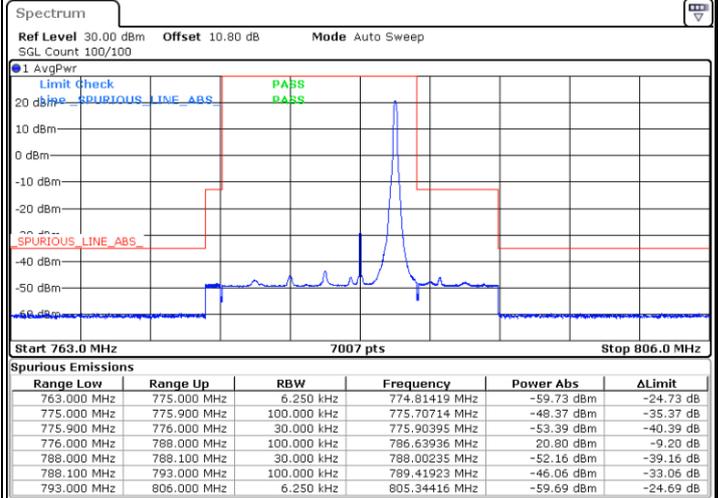
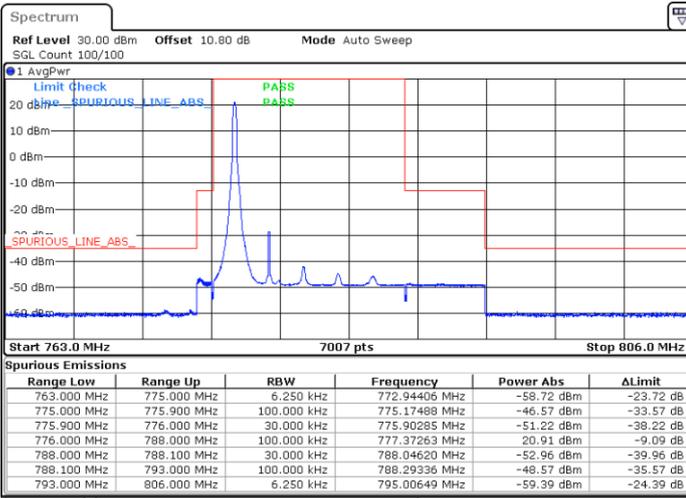
Date: 6 SEP.2017 19:49:07



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

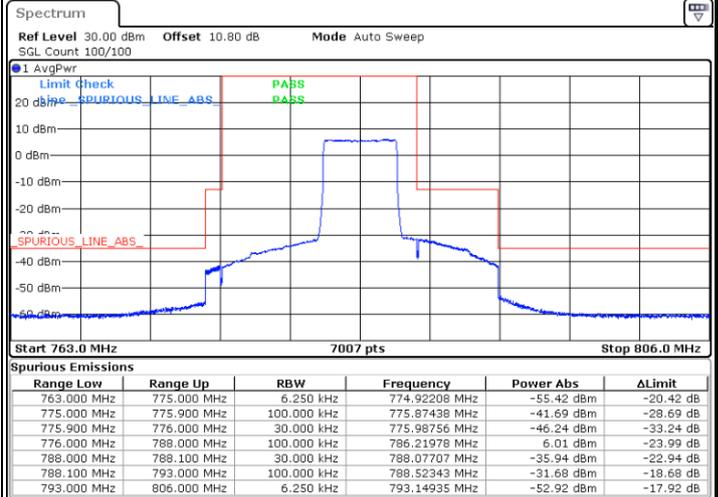
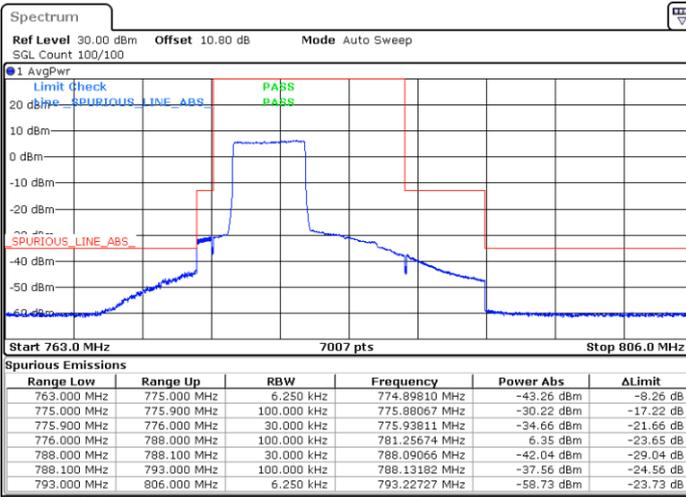


Date: 31.OCT.2017 20:51:37

Date: 31.OCT.2017 20:57:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.OCT.2017 20:49:58

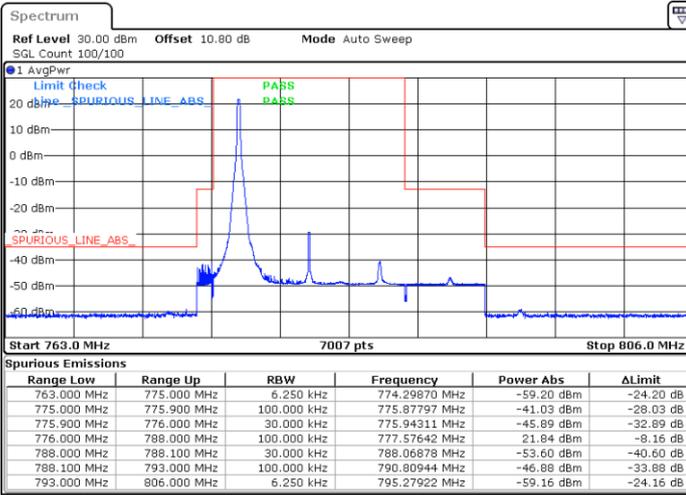
Date: 31.OCT.2017 20:55:57



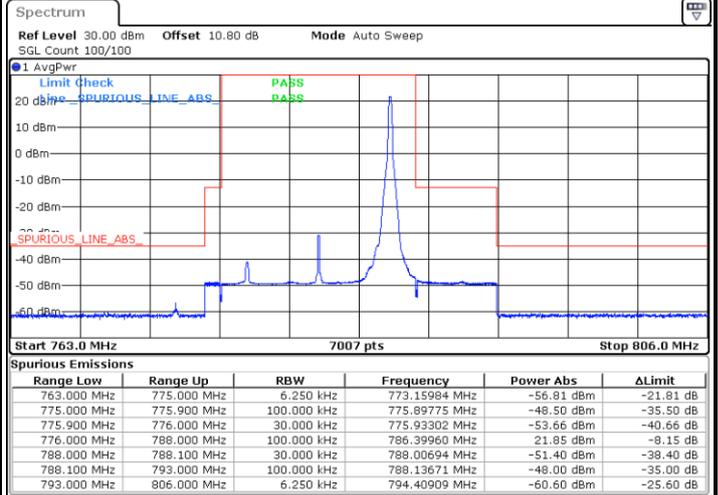
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

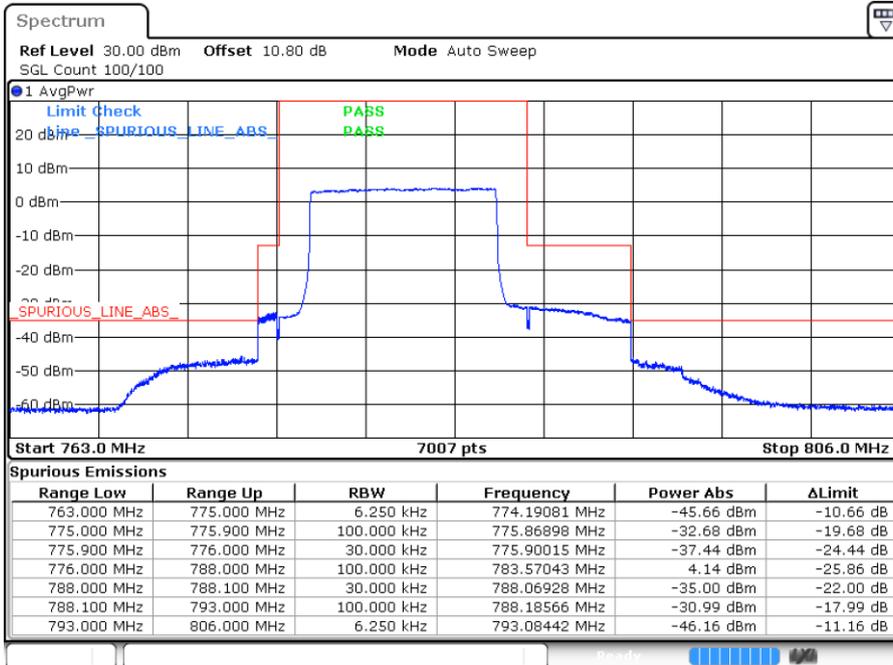


Date: 6 SEP 2017 20:01:27



Date: 6 SEP 2017 20:03:06

Band Edge / Full RB



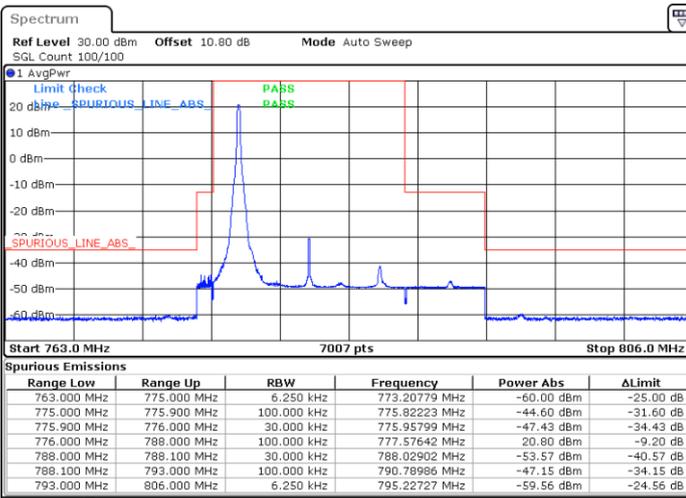
Date: 6 SEP 2017 19:56:30



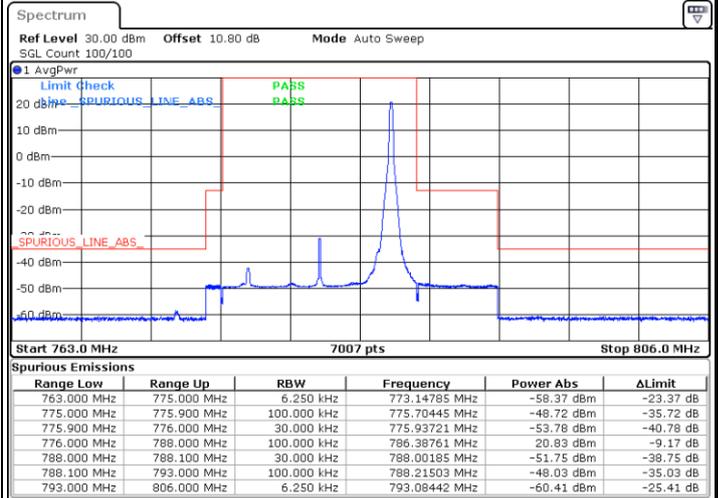
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

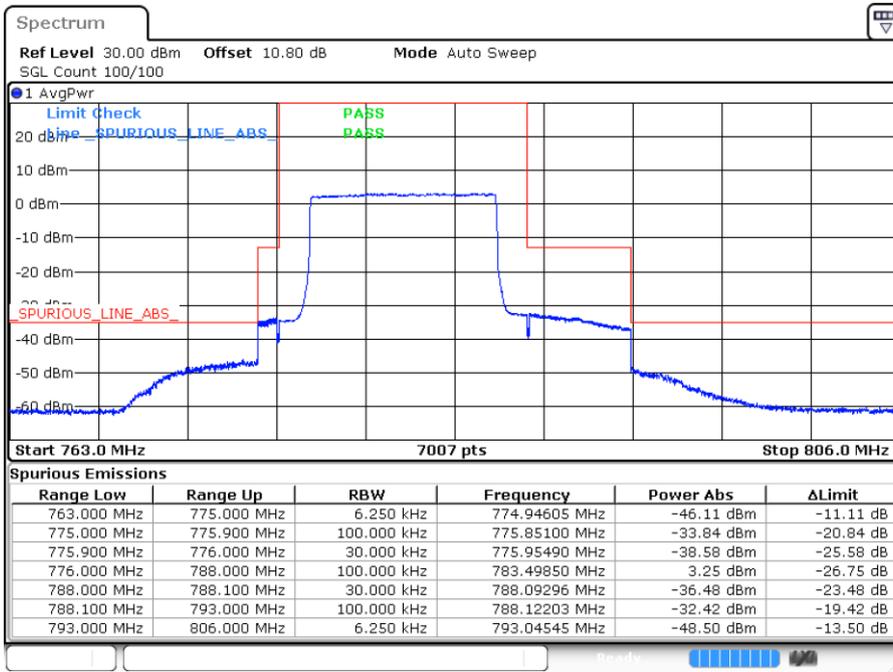


Date: 6 SEP.2017 19:59:48



Date: 6 SEP.2017 20:04:44

Band Edge / Full RB



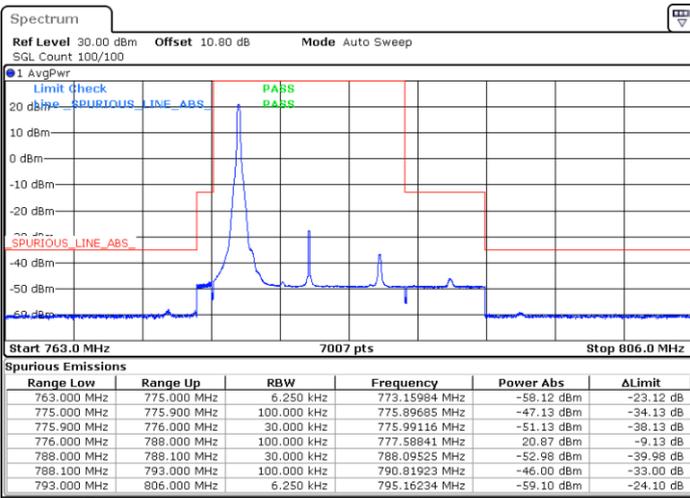
Date: 6 SEP.2017 19:58:09



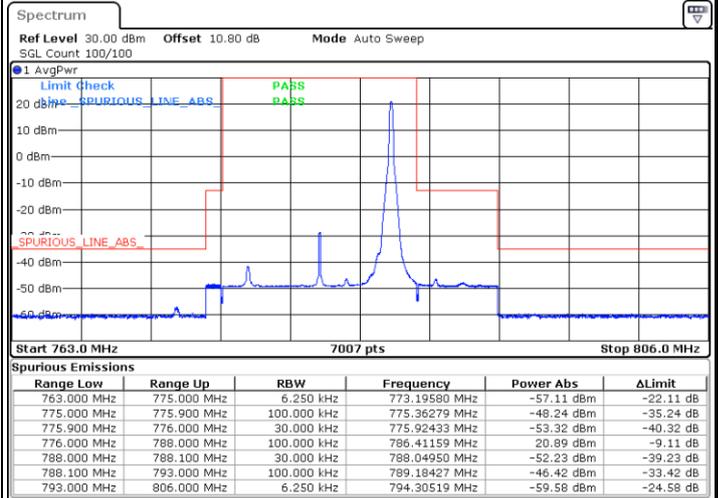
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

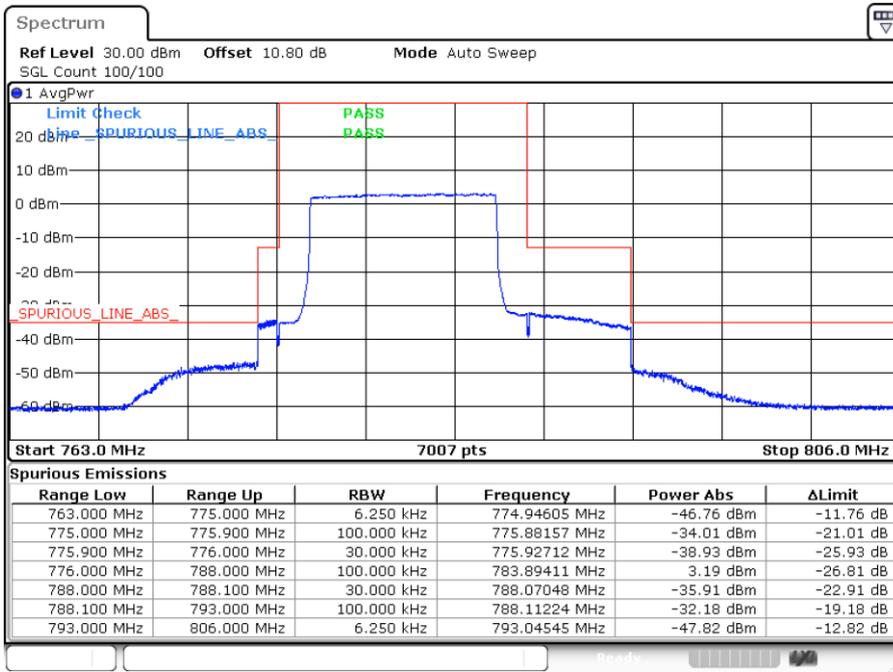


Date: 31.OCT.2017 21:02:14



Date: 31.OCT.2017 21:03:53

Band Edge / Full RB



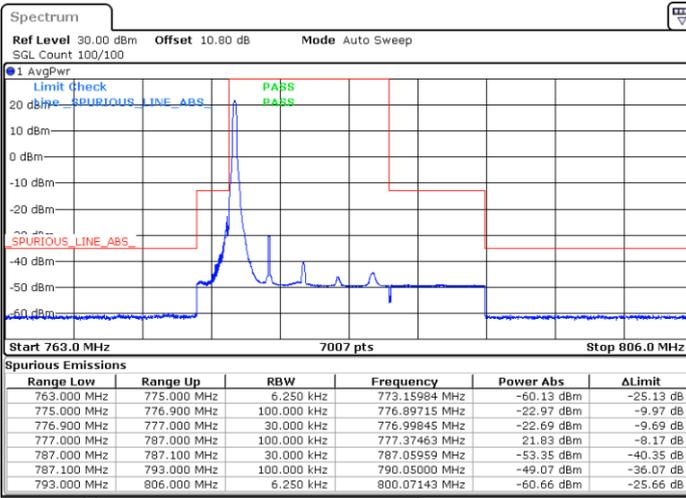
Date: 31.OCT.2017 21:00:35



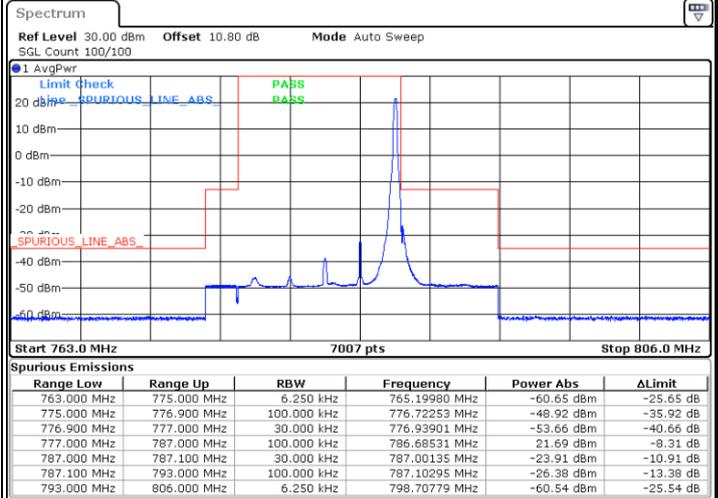
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



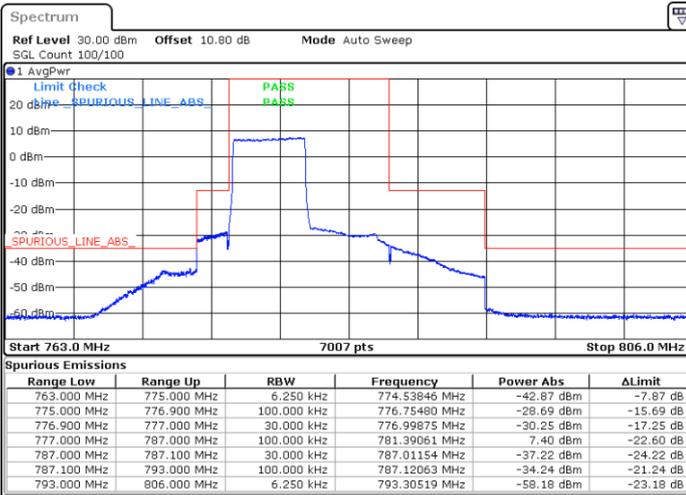
Date: 6 SEP.2017 20:15:21



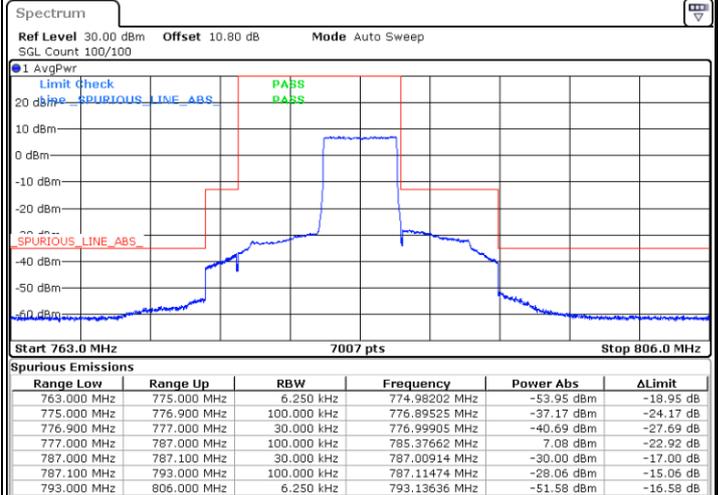
Date: 6 SEP.2017 20:21:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6 SEP.2017 20:10:25



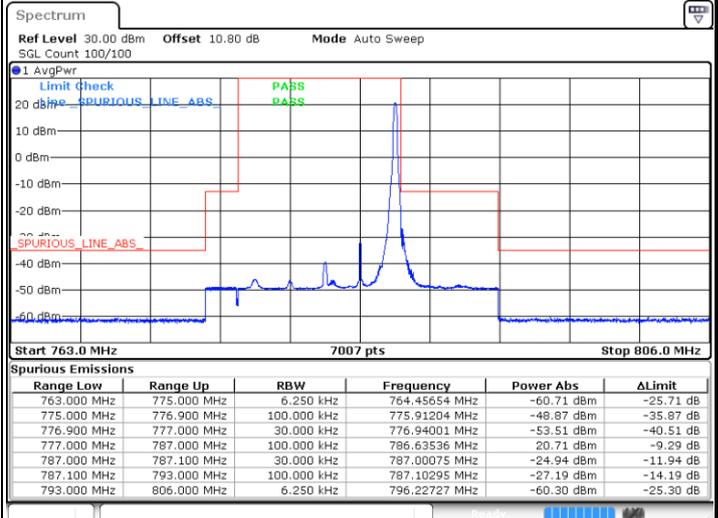
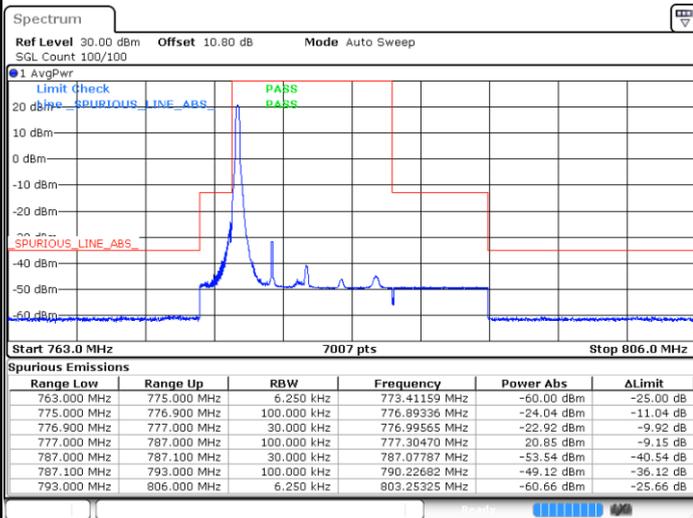
Date: 6 SEP.2017 20:17:00



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

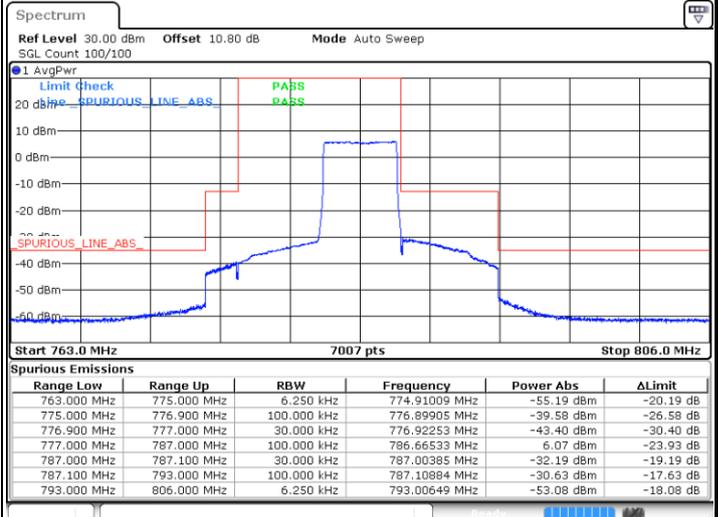
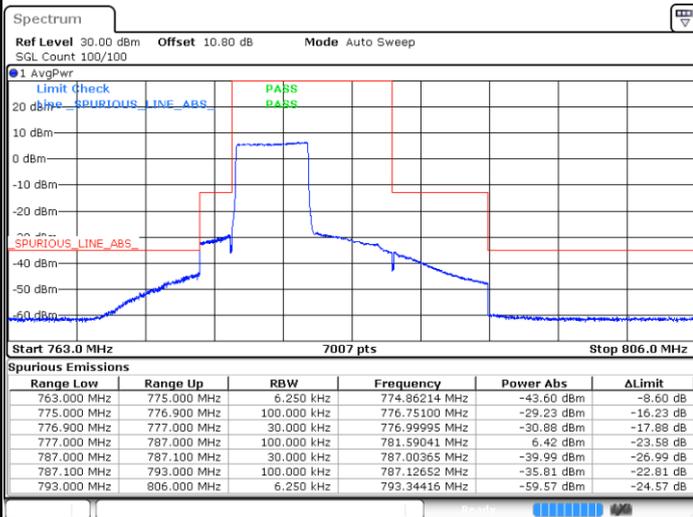


Date: 6 SEP.2017 20:13:43

Date: 6 SEP.2017 20:20:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6 SEP.2017 20:12:04

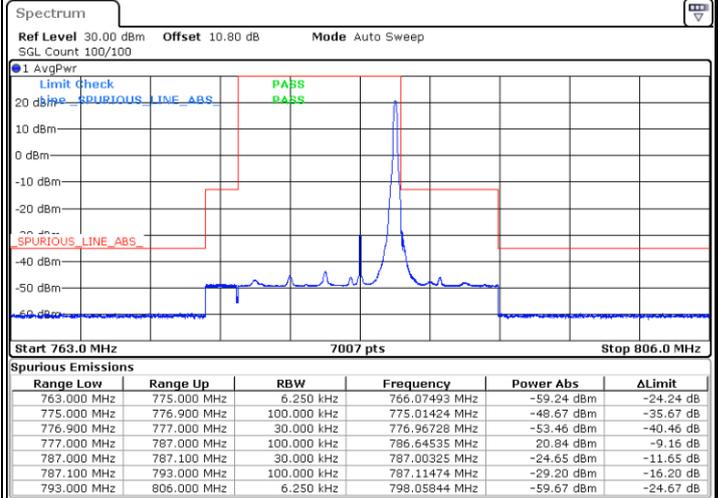
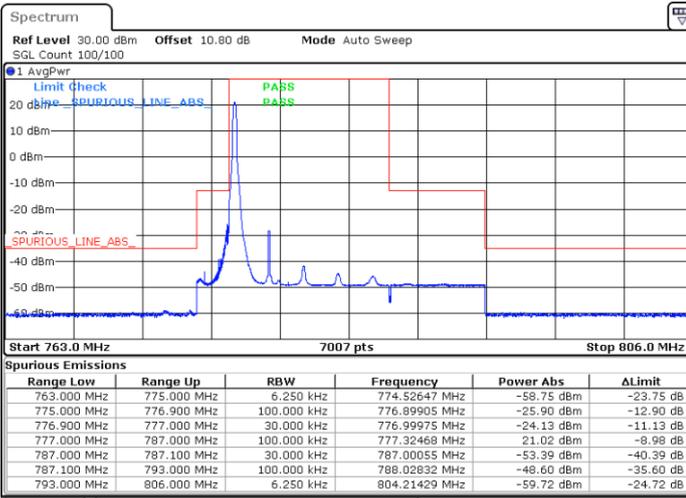
Date: 6 SEP.2017 20:18:39



IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

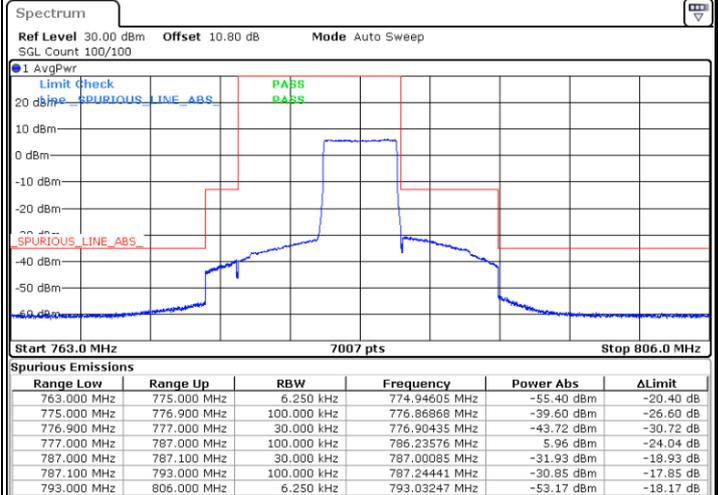
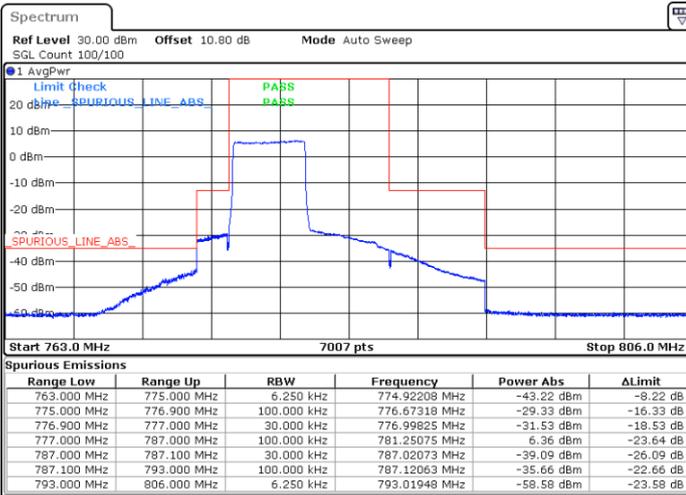


Date: 31.OCT.2017 21:10:35

Date: 31.OCT.2017 21:13:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



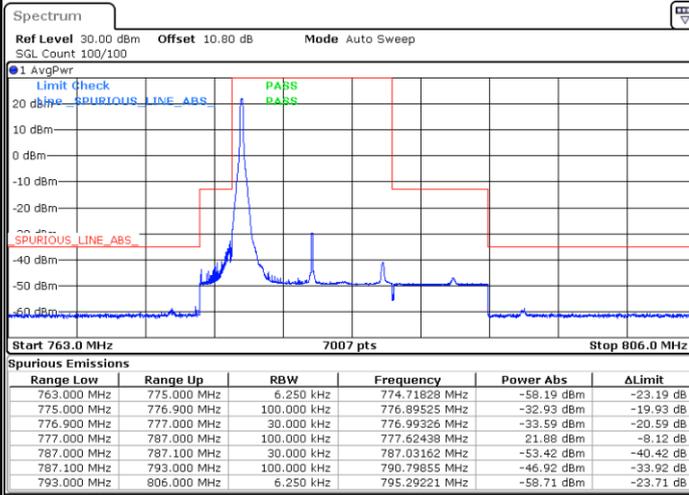
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Date: 31.OCT.2017 21:12:14



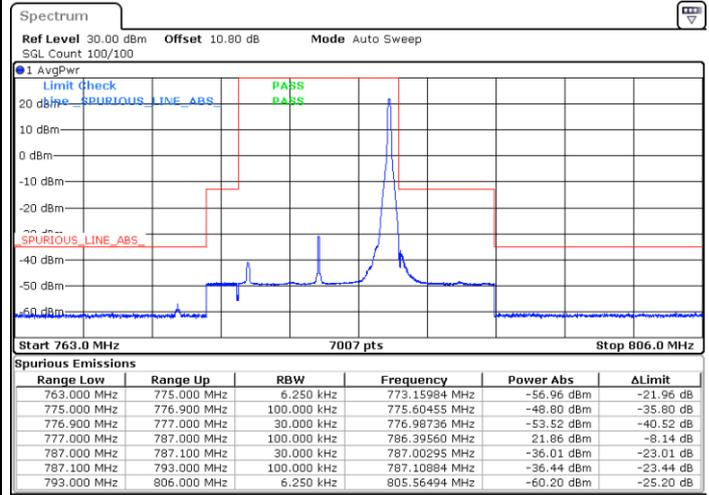
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



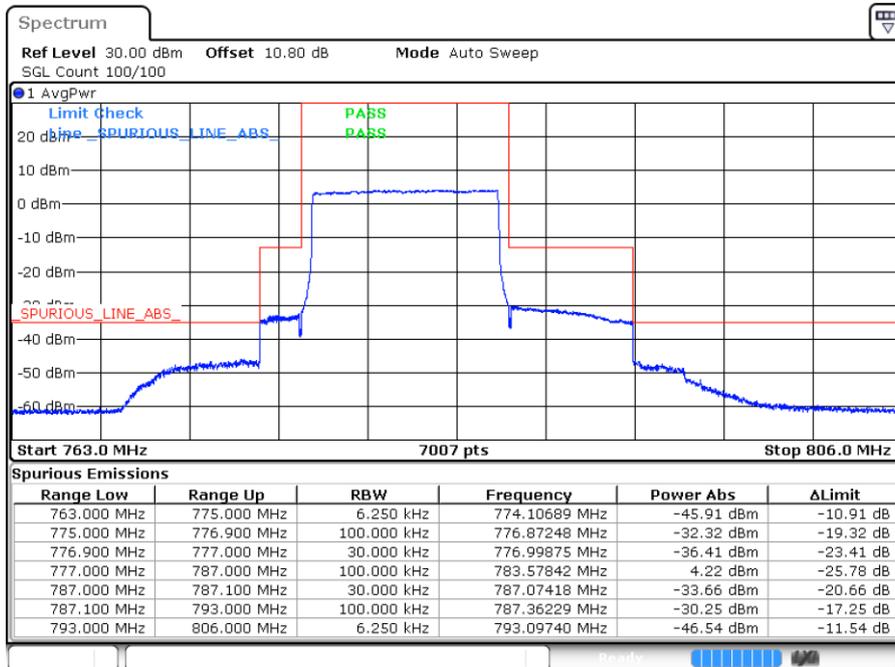
Date: 6 SEP.2017 20:28:32

Highest Band Edge / 1 RB



Date: 6 SEP.2017 20:30:11

Band Edge / Full RB



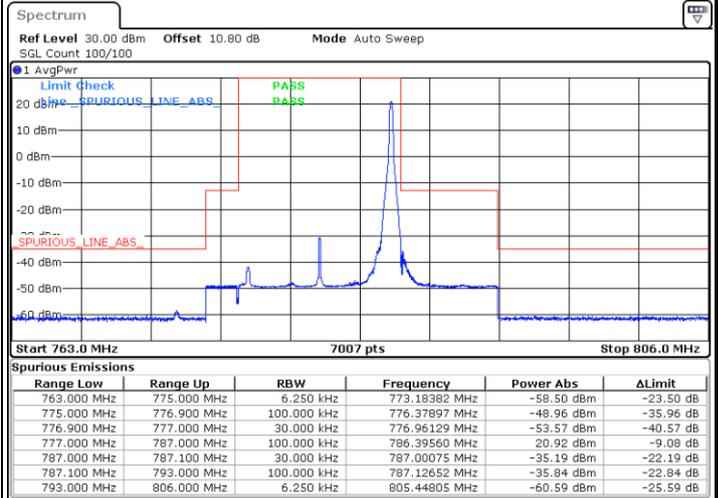
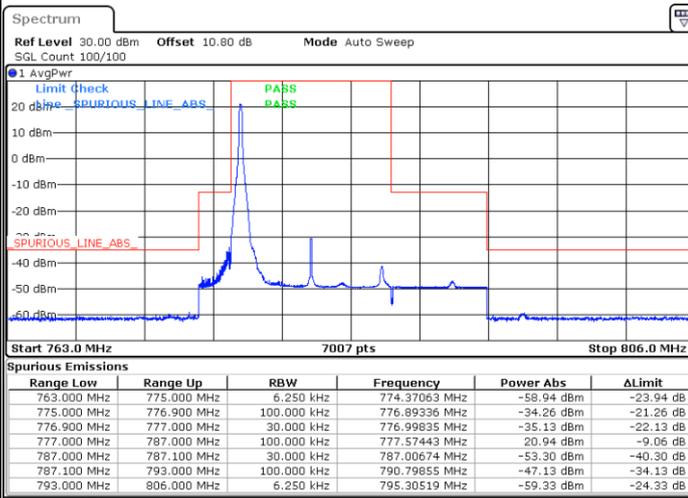
Date: 6 SEP.2017 20:23:35



IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

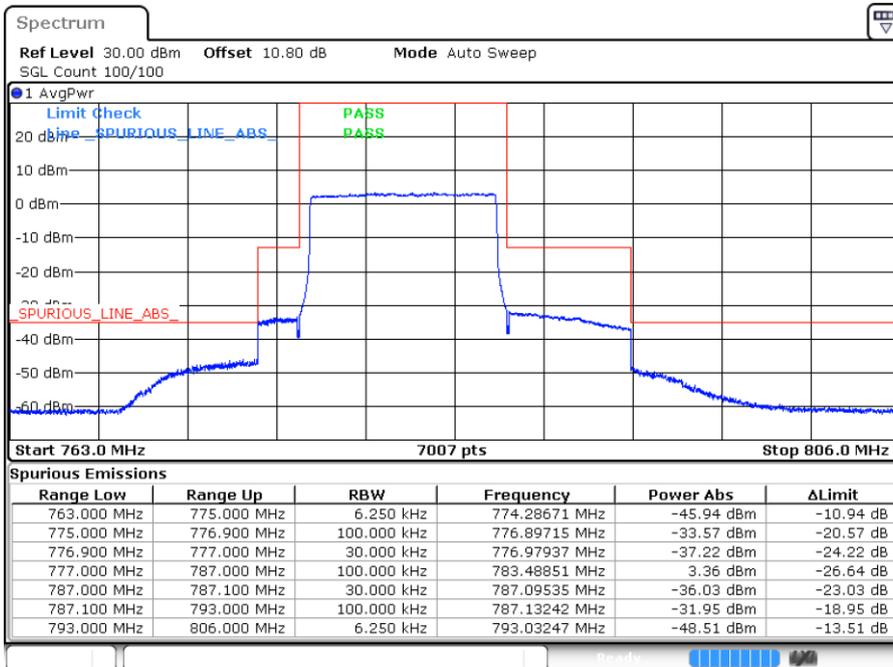
Highest Band Edge / 1 RB



Date: 6 SEP 2017 20:26:53

Date: 6 SEP 2017 20:31:49

Band Edge / Full RB



Date: 6 SEP 2017 20:25:14