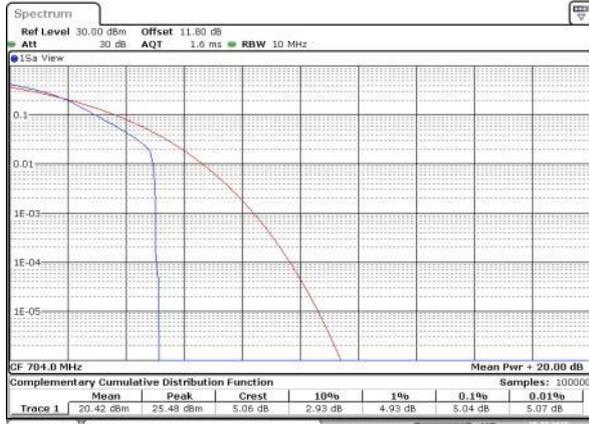




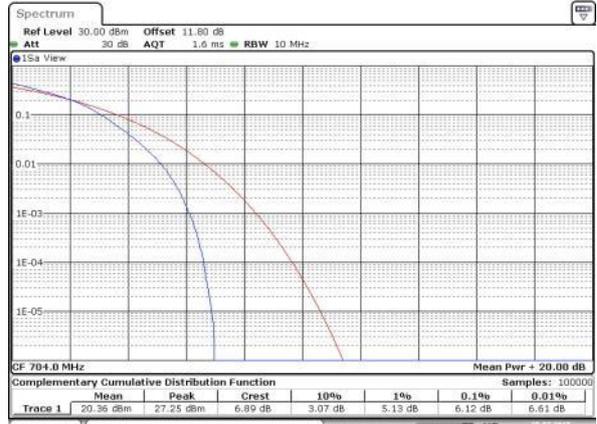
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



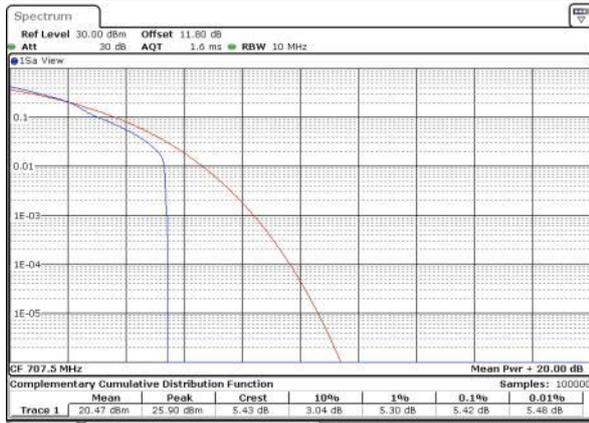
Date: 25 JUL 2015 10:55:46

Lowest Channel / Full RB



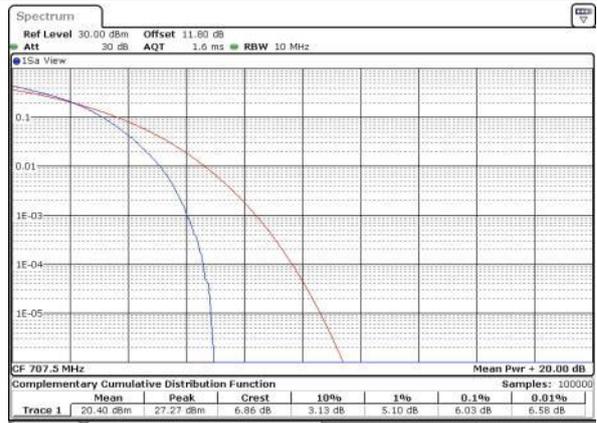
Date: 25 JUL 2015 10:55:34

Middle Channel / 1RB



Date: 25 JUL 2015 10:55:56

Middle Channel / Full RB



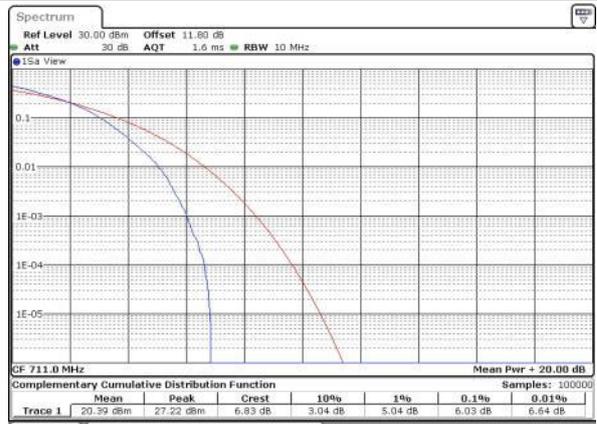
Date: 25 JUL 2015 10:56:08

Highest Channel / 1RB



Date: 25 JUL 2015 10:56:29

Highest Channel / Full RB



Date: 25 JUL 2015 10:56:18



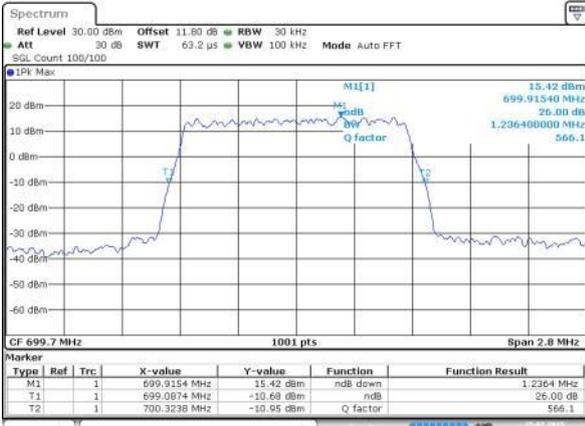
26dB Bandwidth

Mode	LTE Band 12 : 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	1.24	1.23	2.94	3.02	4.91	4.95	9.65	9.79	-	-	-	-
Middle CH	1.22	1.23	2.96	3.03	4.81	4.88	9.73	9.81	-	-	-	-
Highest CH	1.22	1.24	3.03	3.06	4.83	4.91	9.73	9.65	-	-	-	-



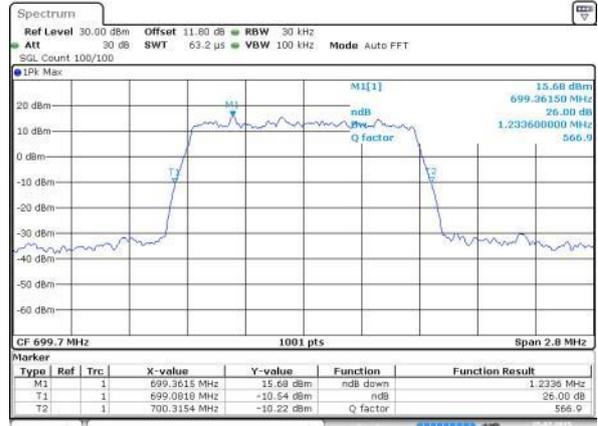
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



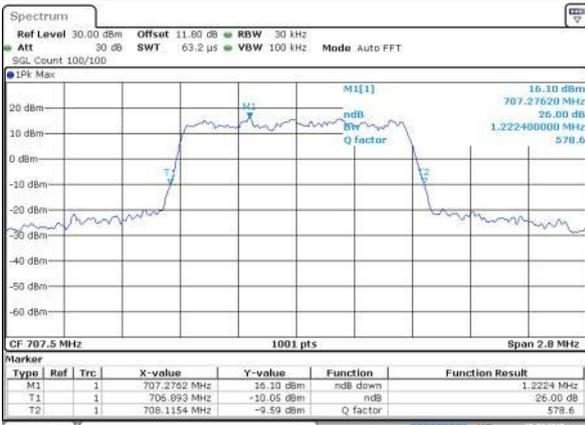
Date: 25 JUL 2015 10:30:17

Lowest Channel / 1.4MHz / 16QAM



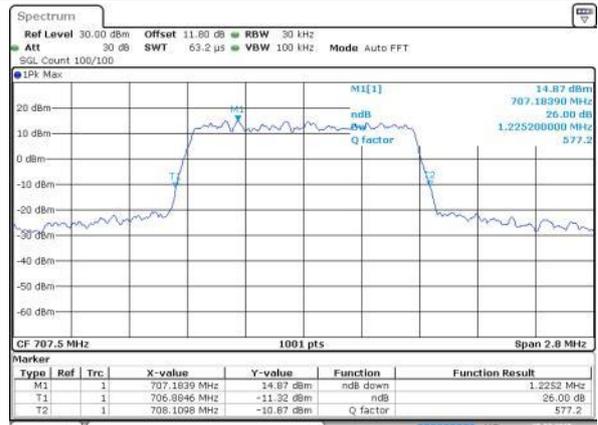
Date: 25 JUL 2015 10:30:06

Middle Channel / 1.4MHz / QPSK



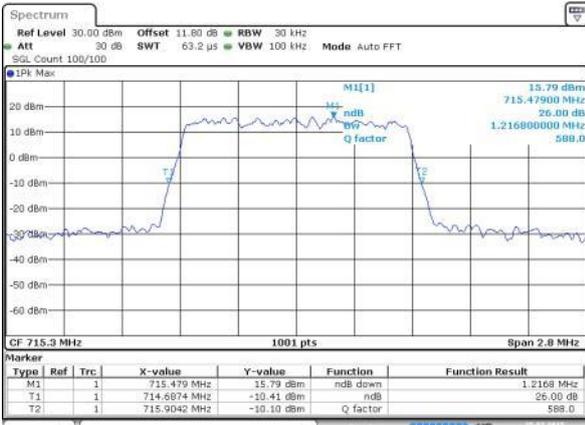
Date: 25 JUL 2015 10:40:14

Middle Channel / 1.4MHz / 16QAM



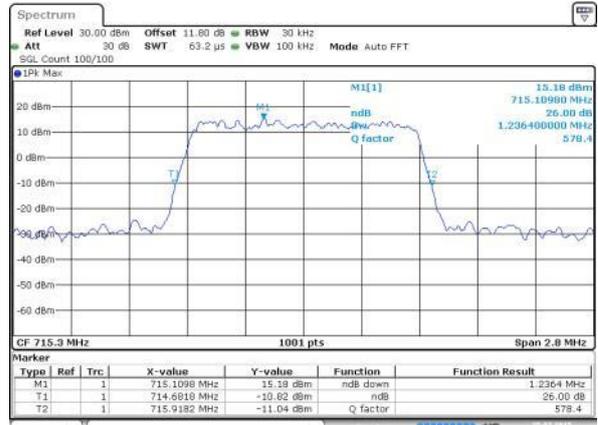
Date: 25 JUL 2015 10:40:25

Highest Channel / 1.4MHz / QPSK



Date: 25 JUL 2015 10:42:55

Highest Channel / 1.4MHz / 16QAM

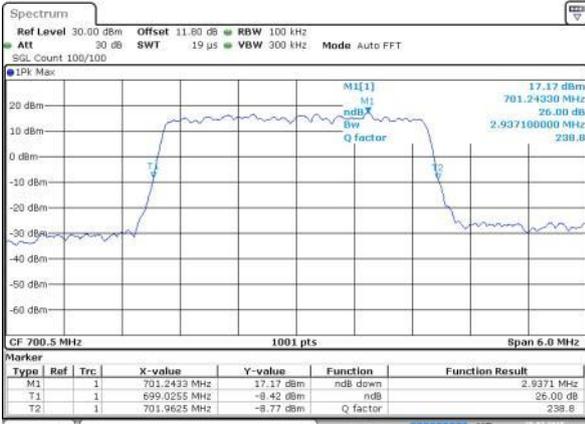


Date: 25 JUL 2015 10:42:45



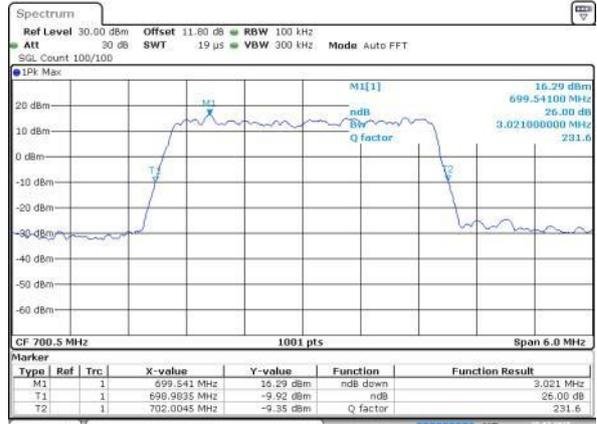
LTE Band 12

Lowest Channel / 3MHz / QPSK



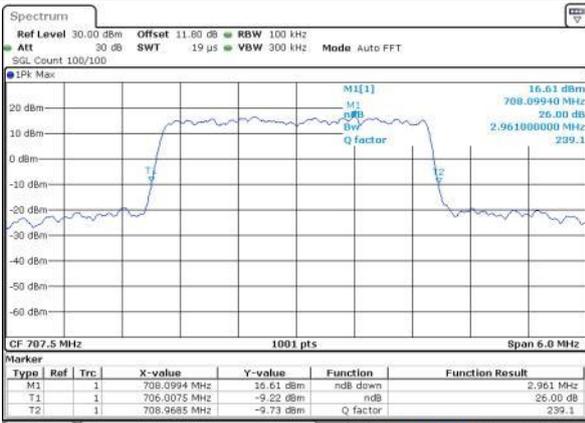
Date: 25 JUL 2015 09:09:44

Lowest Channel / 3MHz / 16QAM



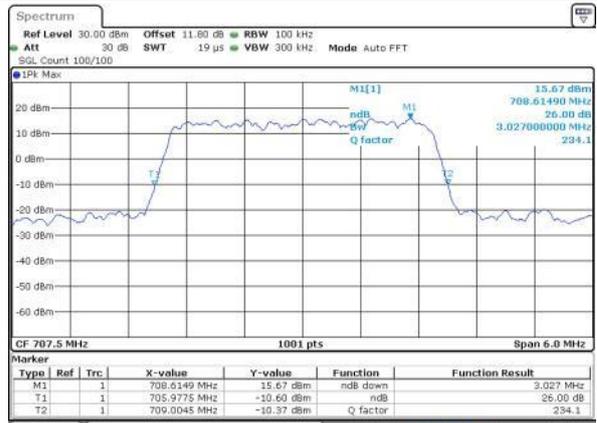
Date: 25 JUL 2015 09:09:34

Middle Channel / 3MHz / QPSK



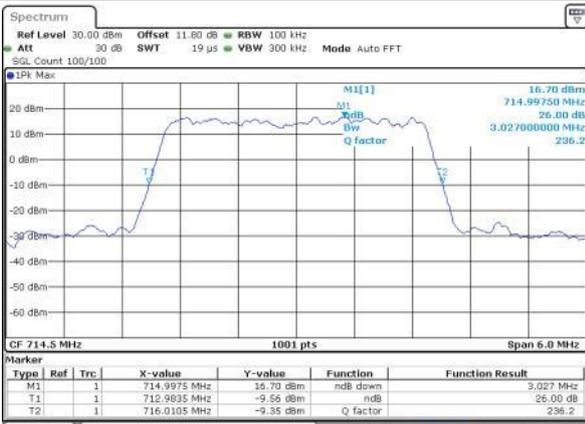
Date: 25 JUL 2015 09:19:42

Middle Channel / 3MHz / 16QAM



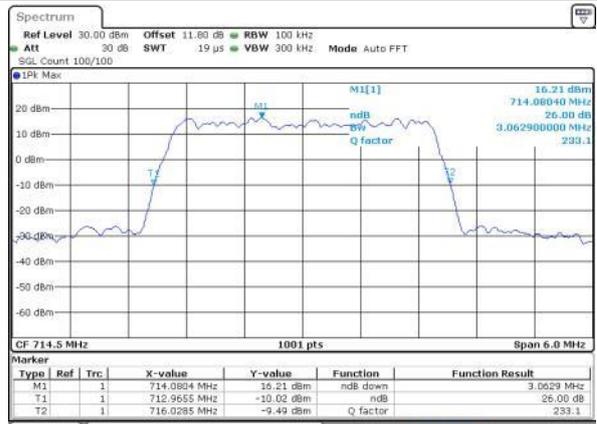
Date: 25 JUL 2015 09:19:52

Highest Channel / 3MHz / QPSK



Date: 25 JUL 2015 09:22:23

Highest Channel / 3MHz / 16QAM

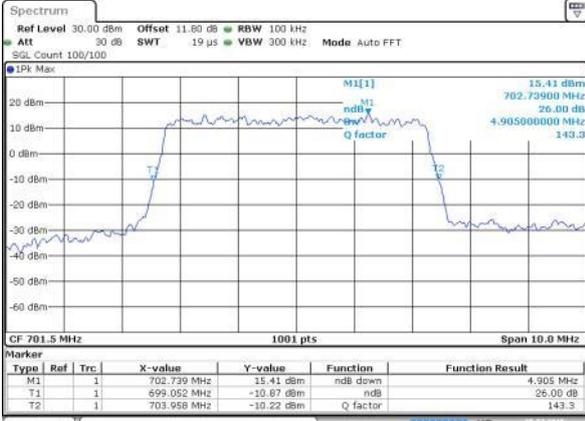


Date: 25 JUL 2015 09:22:13



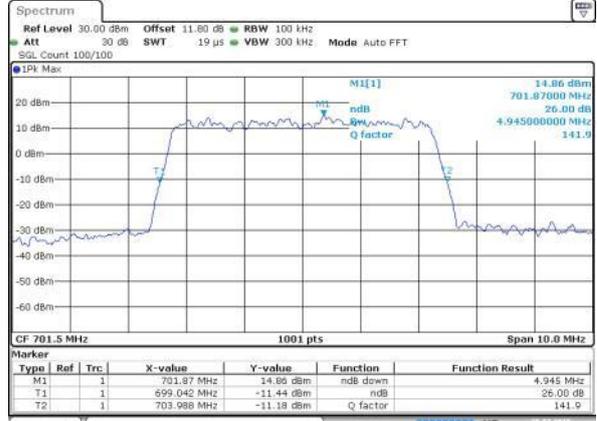
LTE Band 12

Lowest Channel / 5MHz / QPSK



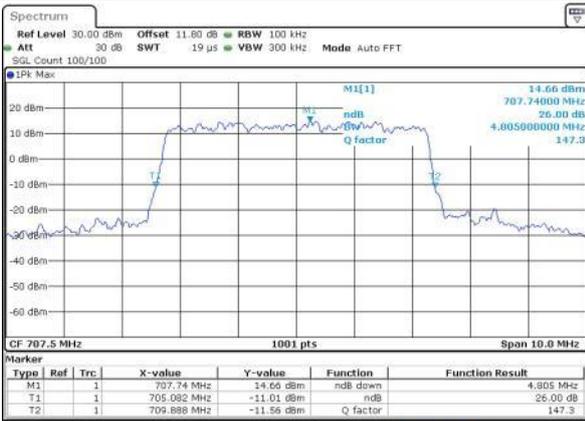
Date: 25 JUL 2015 09:32:31

Lowest Channel / 5MHz / 16QAM



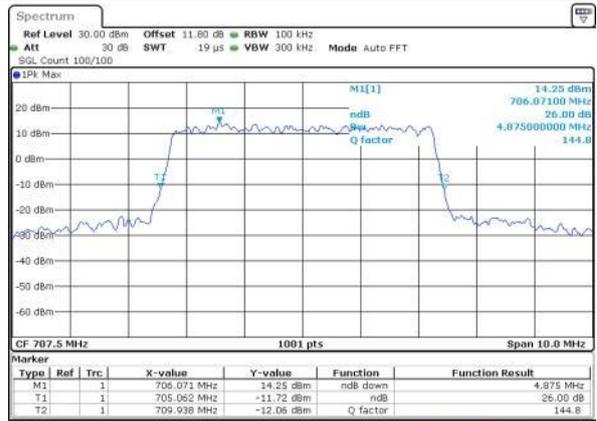
Date: 25 JUL 2015 09:32:21

Middle Channel / 5MHz / QPSK



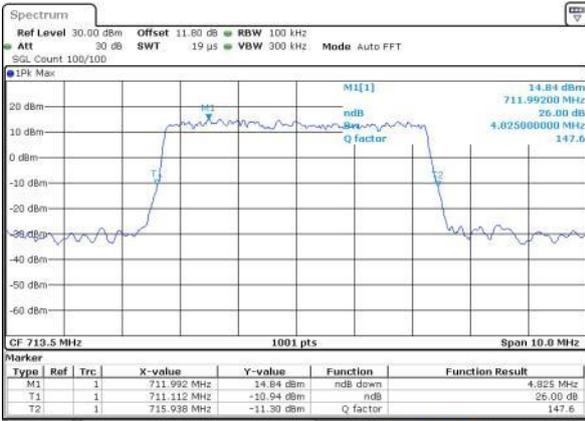
Date: 25 JUL 2015 09:42:29

Middle Channel / 5MHz / 16QAM



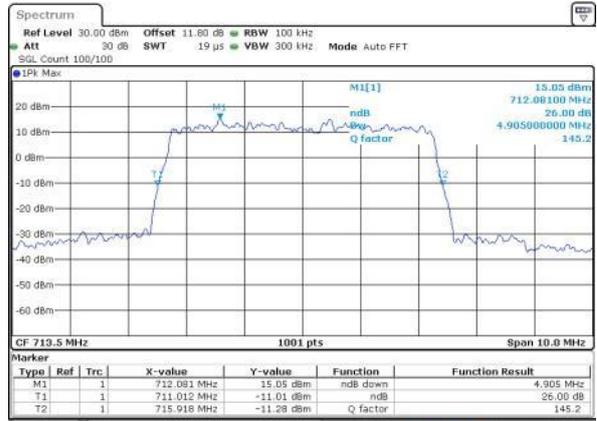
Date: 25 JUL 2015 09:42:39

Highest Channel / 5MHz / QPSK



Date: 25 JUL 2015 09:45:11

Highest Channel / 5MHz / 16QAM

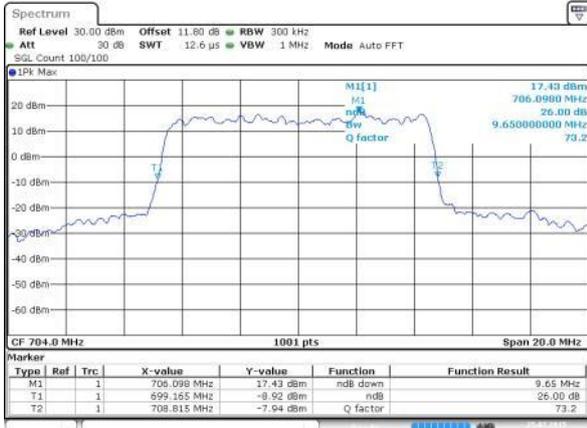


Date: 25 JUL 2015 09:45:00



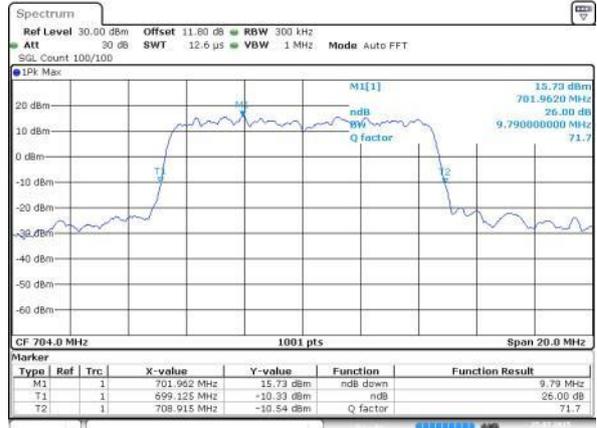
LTE Band 12

Lowest Channel / 10MHz / QPSK



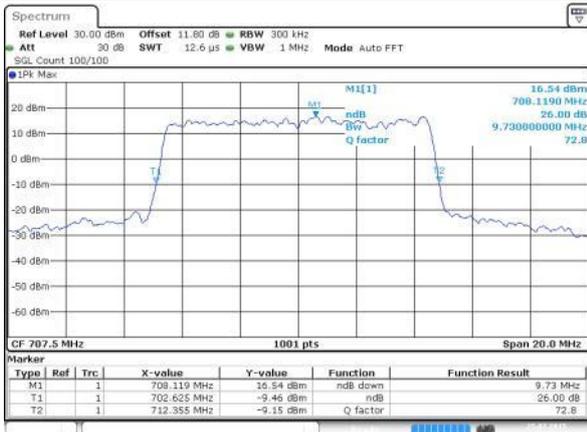
Date: 25 JUL 2015 09:55:18

Lowest Channel / 10MHz / 16QAM



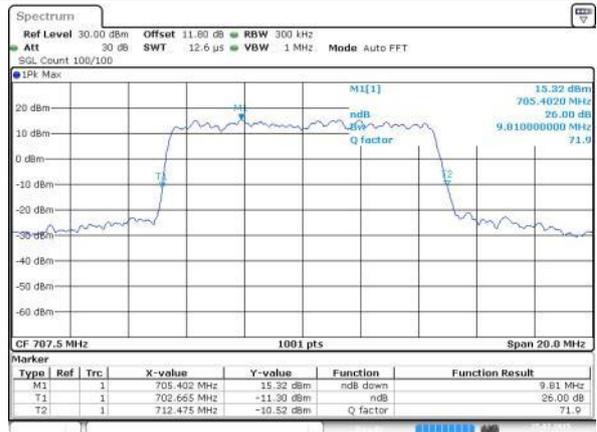
Date: 25 JUL 2015 09:55:08

Middle Channel / 10MHz / QPSK



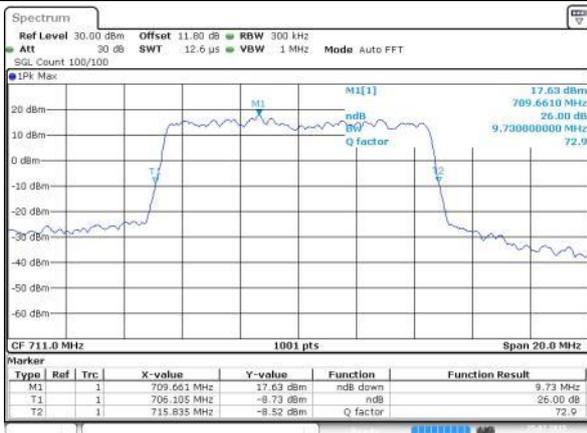
Date: 25 JUL 2015 10:05:15

Middle Channel / 10MHz / 16QAM



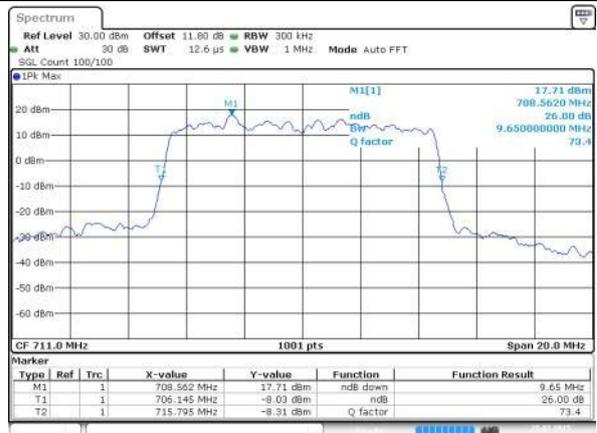
Date: 25 JUL 2015 10:05:25

Highest Channel / 10MHz / QPSK



Date: 25 JUL 2015 10:07:56

Highest Channel / 10MHz / 16QAM



Date: 25 JUL 2015 10:07:45



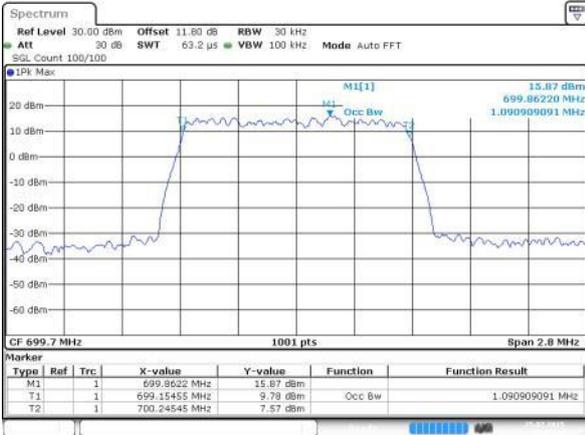
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	1.09	2.73	2.70	4.49	4.47	9.01	9.05	-	-	-	-
Middle CH	1.09	1.09	2.71	2.72	4.50	4.50	9.01	9.05	-	-	-	-
Highest CH	1.09	1.09	2.73	2.73	4.48	4.49	9.03	9.01	-	-	-	-



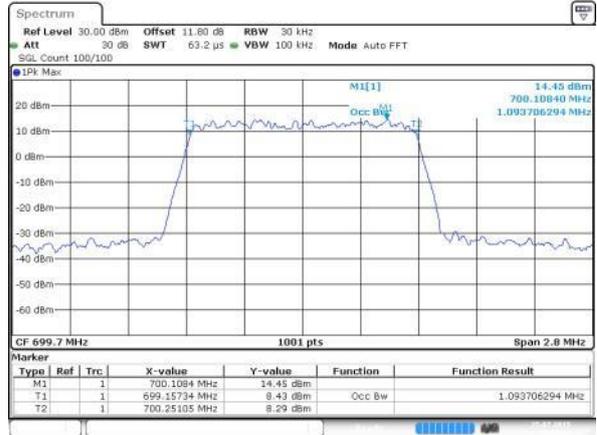
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



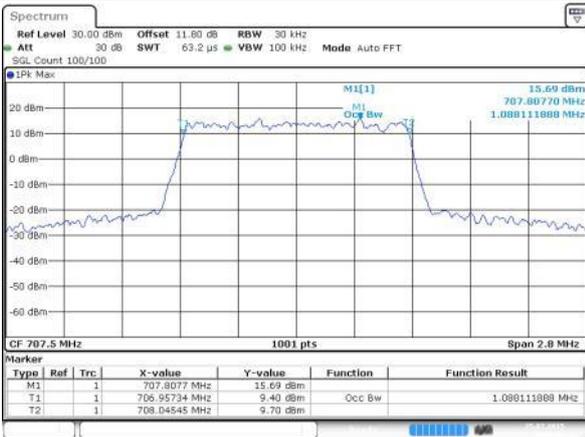
Date: 25 JUL 2015 10:29:45

Lowest Channel / 1.4MHz / 16QAM



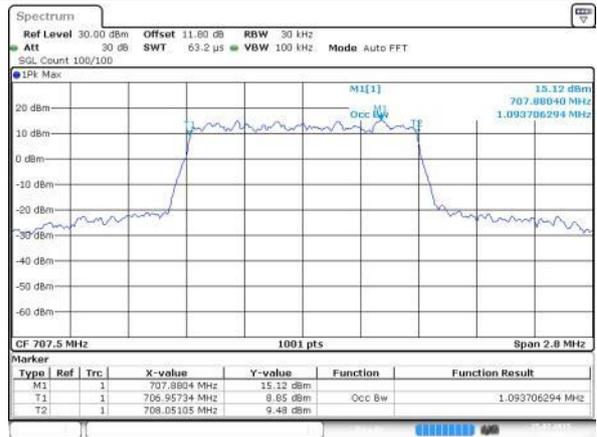
Date: 25 JUL 2015 10:29:56

Middle Channel / 1.4MHz / QPSK



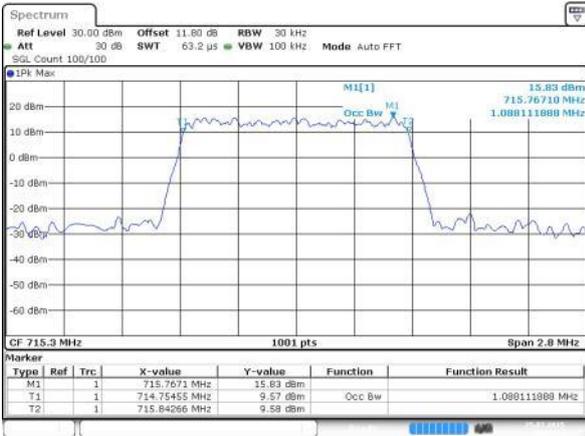
Date: 25 JUL 2015 10:40:04

Middle Channel / 1.4MHz / 16QAM



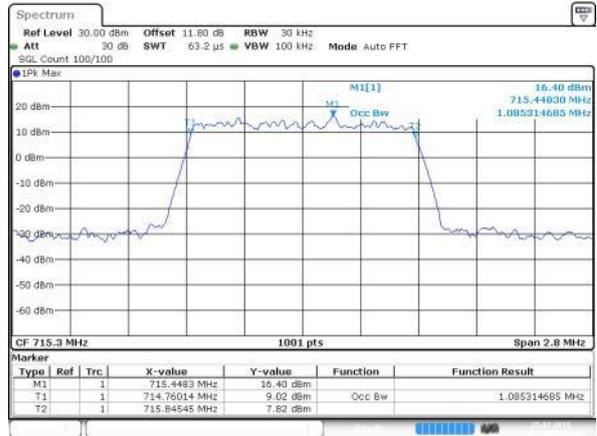
Date: 25 JUL 2015 10:38:53

Highest Channel / 1.4MHz / QPSK



Date: 25 JUL 2015 10:42:24

Highest Channel / 1.4MHz / 16QAM

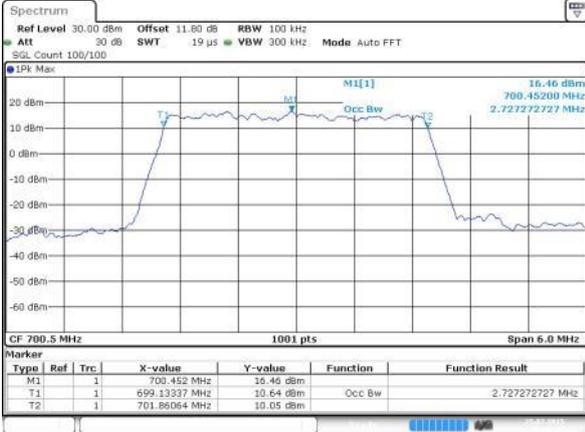


Date: 25 JUL 2015 10:42:34



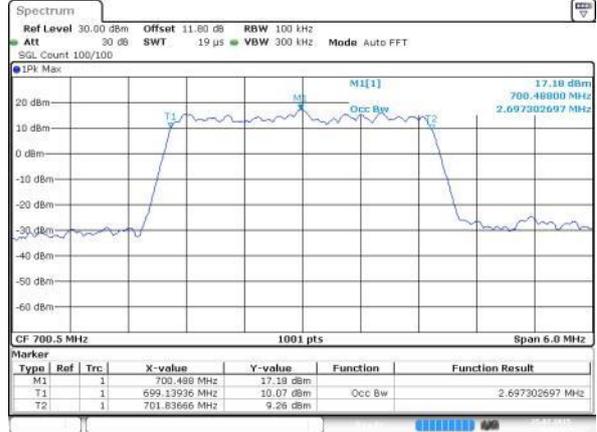
LTE Band 12

Lowest Channel / 3MHz / QPSK



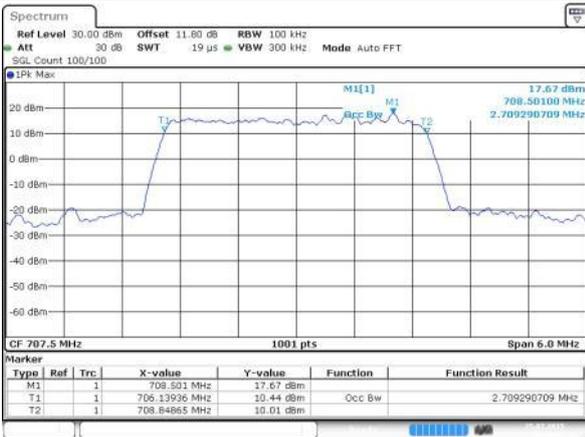
Date: 25 JUL 2015 09:09:13

Lowest Channel / 3MHz / 16QAM



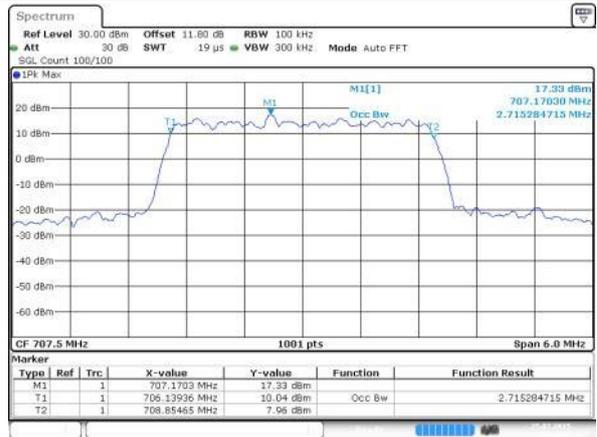
Date: 25 JUL 2015 09:09:23

Middle Channel / 3MHz / QPSK



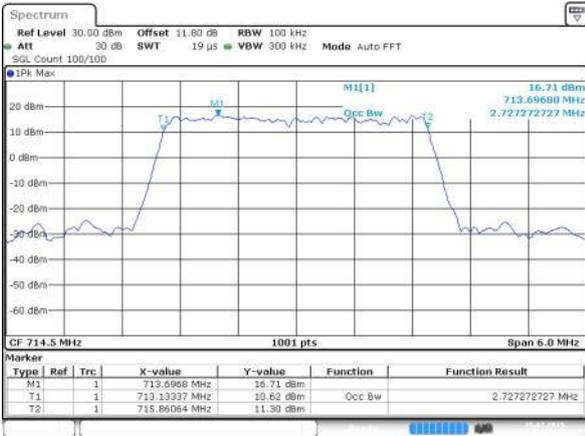
Date: 25 JUL 2015 09:19:31

Middle Channel / 3MHz / 16QAM



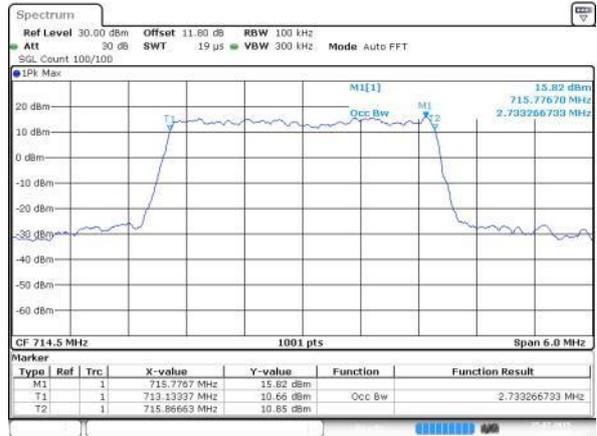
Date: 25 JUL 2015 09:19:20

Highest Channel / 3MHz / QPSK



Date: 25 JUL 2015 09:21:52

Highest Channel / 3MHz / 16QAM

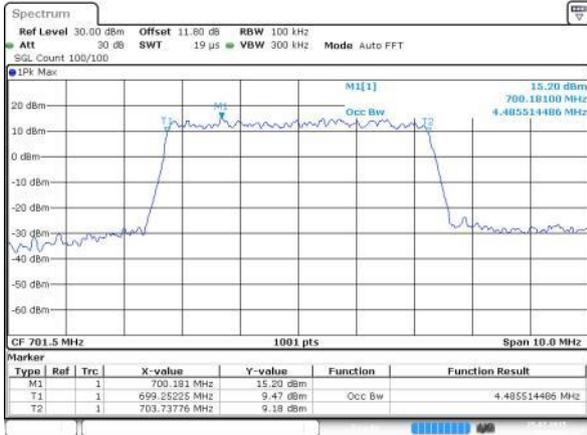


Date: 25 JUL 2015 09:22:02



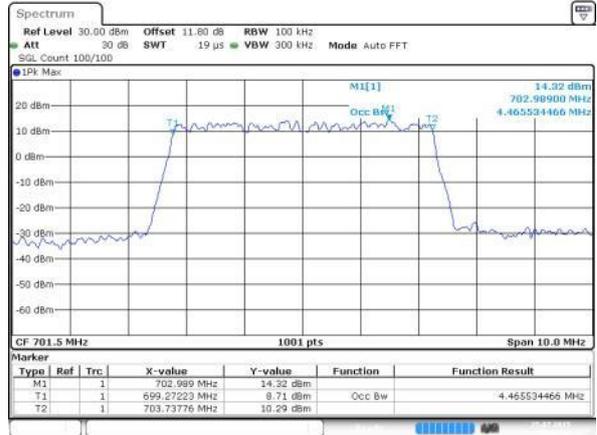
LTE Band 12

Lowest Channel / 5MHz / QPSK



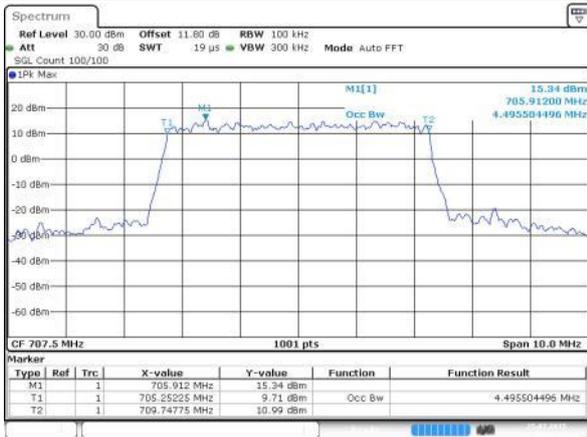
Date: 25 JUL 2015 09:32:00

Lowest Channel / 5MHz / 16QAM



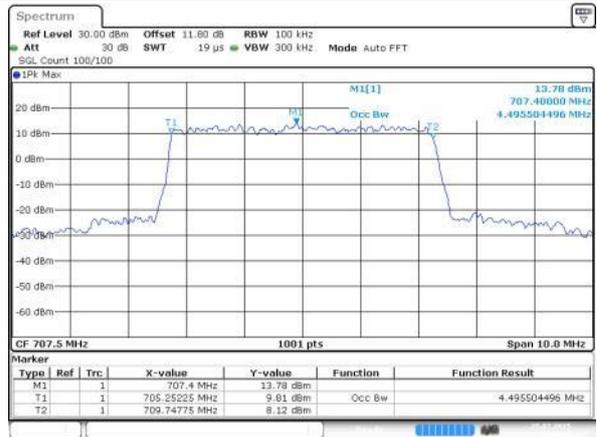
Date: 25 JUL 2015 09:32:10

Middle Channel / 5MHz / QPSK



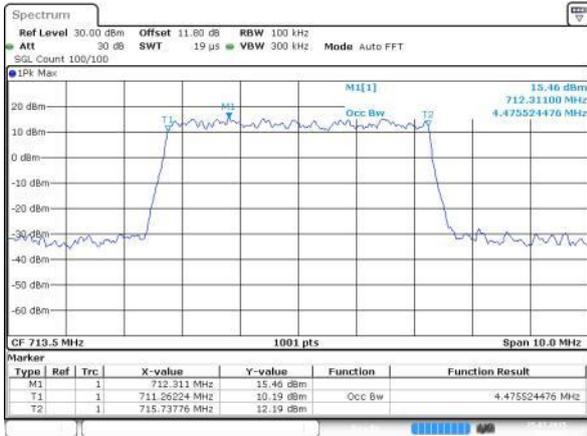
Date: 25 JUL 2015 09:42:18

Middle Channel / 5MHz / 16QAM



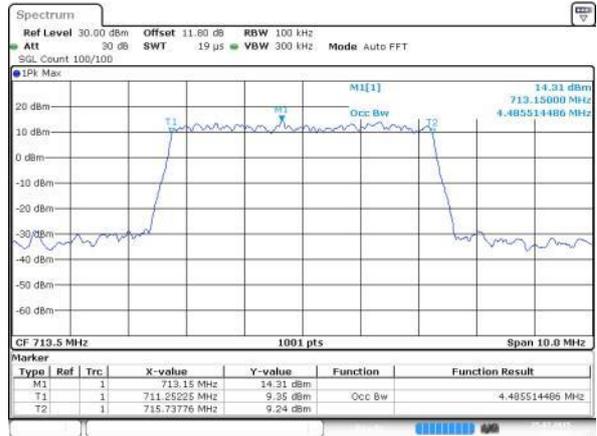
Date: 25 JUL 2015 09:42:08

Highest Channel / 5MHz / QPSK



Date: 25 JUL 2015 09:44:39

Highest Channel / 5MHz / 16QAM

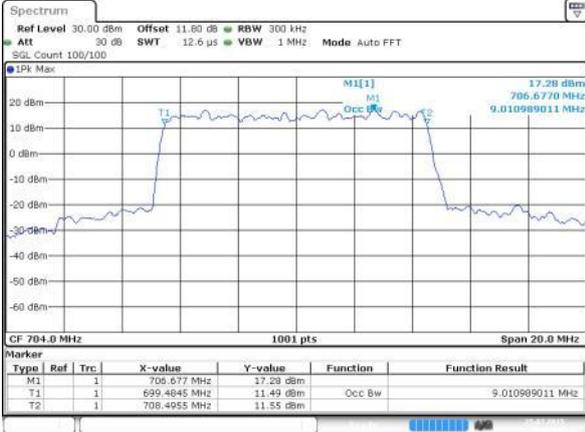


Date: 25 JUL 2015 09:44:49

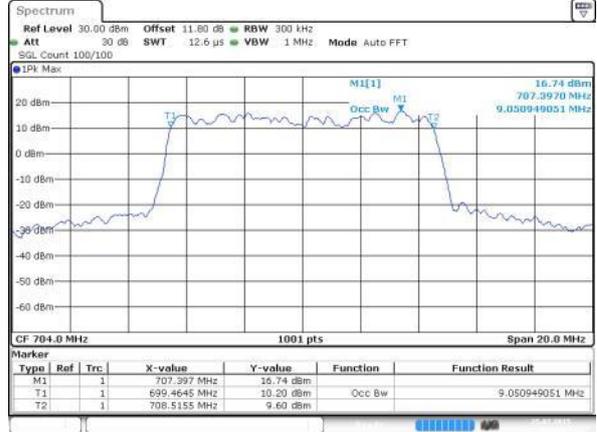


LTE Band 12

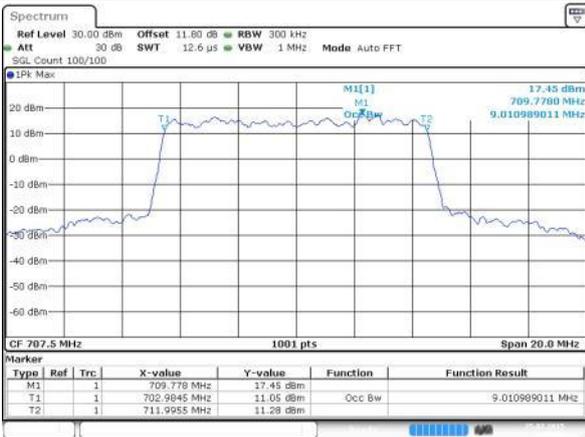
Lowest Channel / 10MHz / QPSK



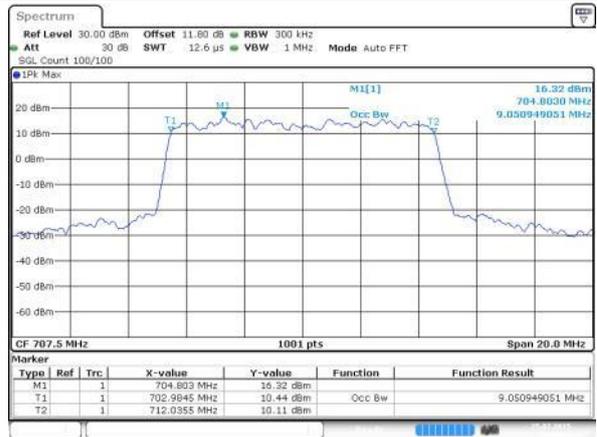
Lowest Channel / 10MHz / 16QAM



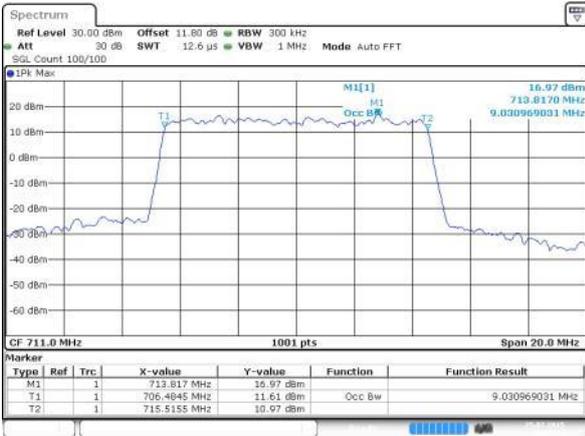
Middle Channel / 10MHz / QPSK



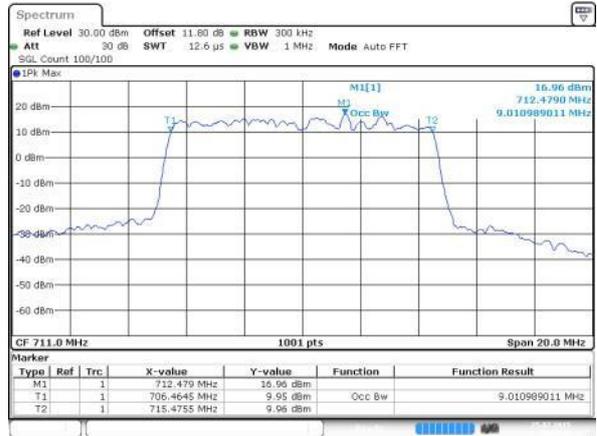
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

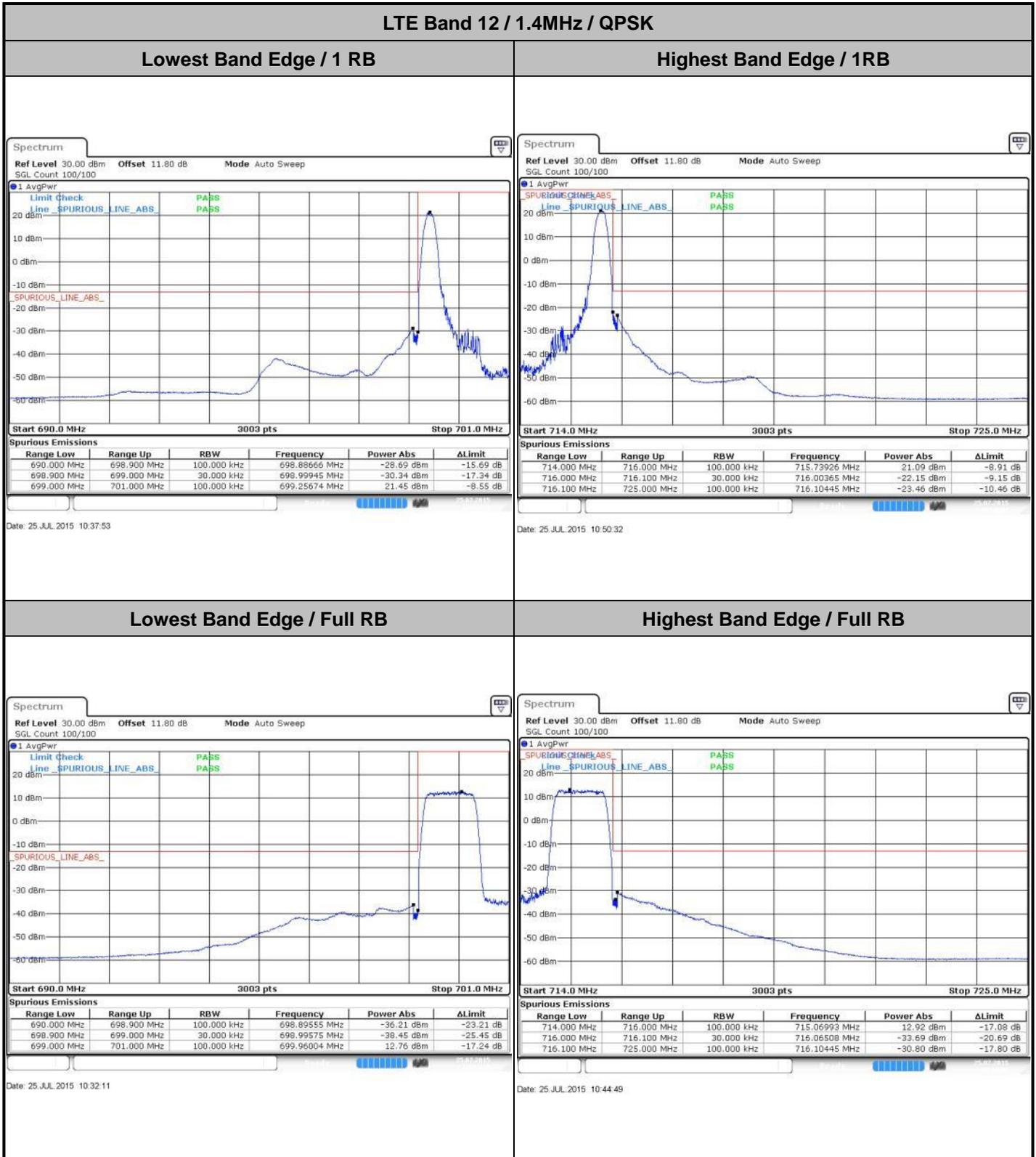


Highest Channel / 10MHz / 16QAM





Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 25.JUL.2015 10:35:59

Date: 25.JUL.2015 10:48:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



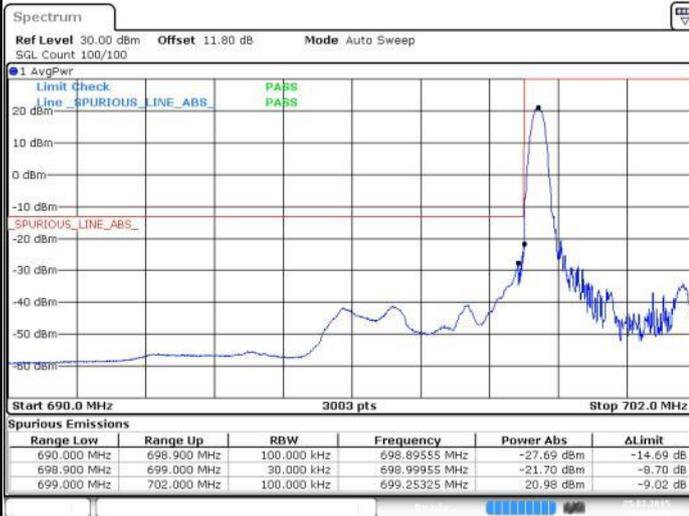
Date: 25.JUL.2015 10:34:05

Date: 25.JUL.2015 10:48:43



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 25.JUL.2015 09:17:21

Highest Band Edge / 1 RB



Date: 25.JUL.2015 09:30:00

Lowest Band Edge / Full RB



Date: 25.JUL.2015 09:11:38

Highest Band Edge / Full RB



Date: 25.JUL.2015 09:24:17



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



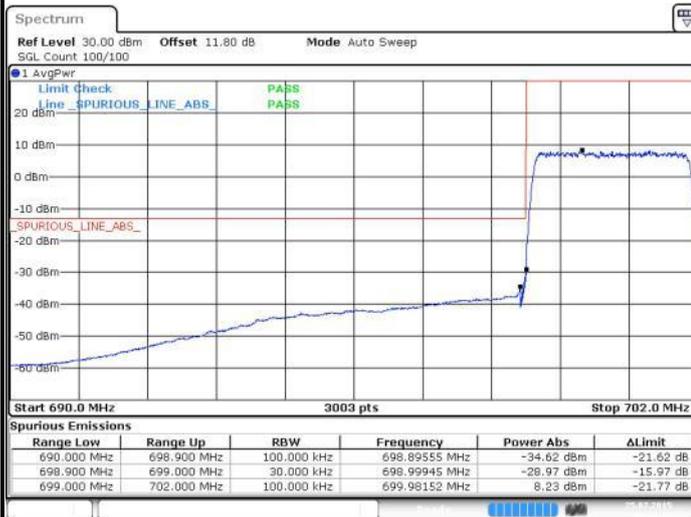
Date: 25 JUL 2015 09:15:27

Highest Band Edge / 1 RB



Date: 25 JUL 2015 09:28:06

Lowest Band Edge / Full RB



Date: 25 JUL 2015 09:13:32

Highest Band Edge / Full RB

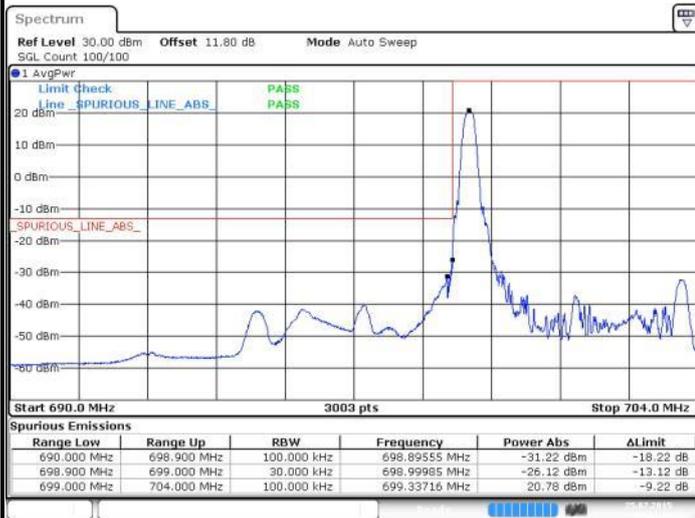


Date: 25 JUL 2015 09:26:11



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



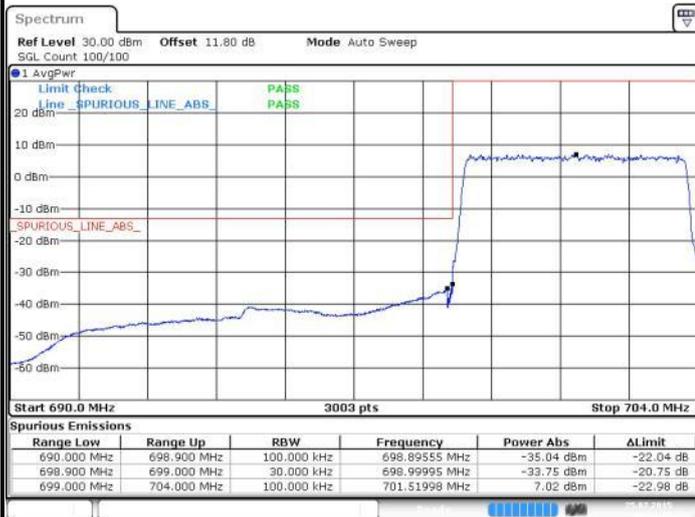
Date: 25.JUL.2015 09:40:08

Highest Band Edge / 1 RB



Date: 25.JUL.2015 09:50:53

Lowest Band Edge / Full RB



Date: 25.JUL.2015 09:34:25

Highest Band Edge / Full RB

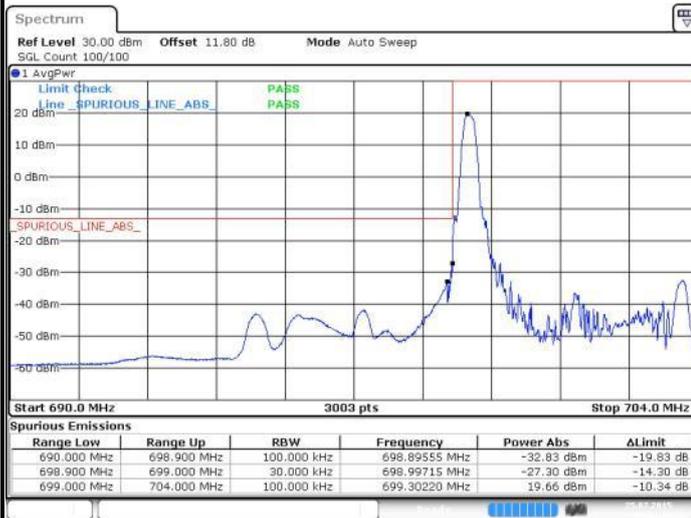


Date: 25.JUL.2015 09:47:04



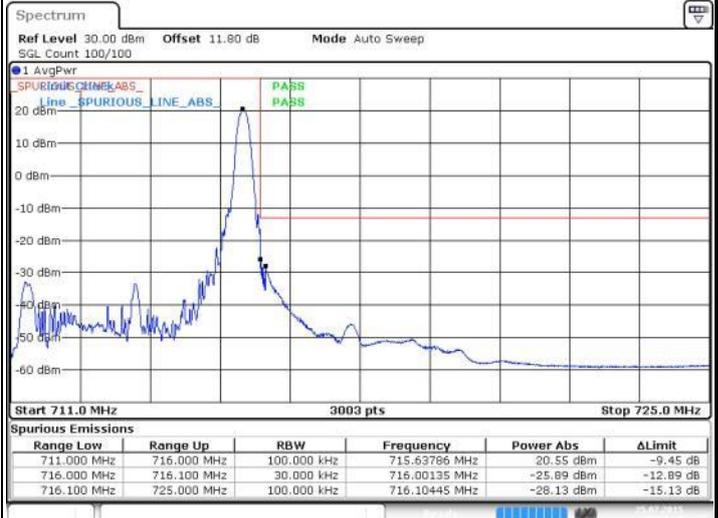
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



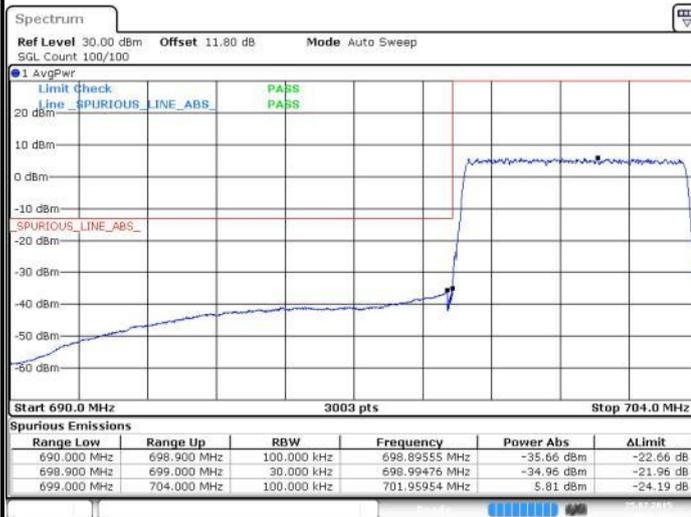
Date: 25.JUL.2015 09:38:14

Highest Band Edge / 1 RB



Date: 25.JUL.2015 09:52:47

Lowest Band Edge / Full RB



Date: 25.JUL.2015 09:36:19

Highest Band Edge / Full RB

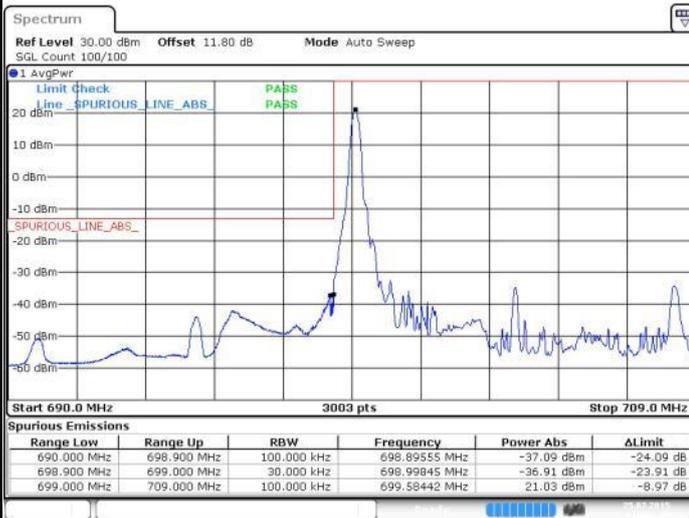


Date: 25.JUL.2015 09:48:59



LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



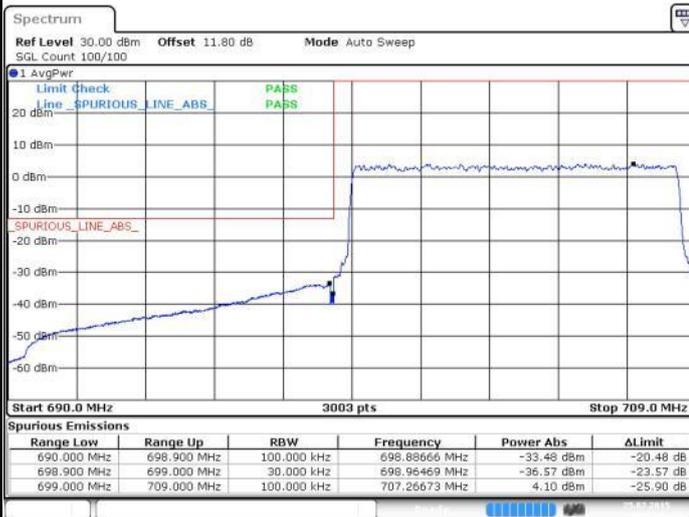
Date: 25.JUL.2015 10:02:54

Highest Band Edge / 1 RB



Date: 25.JUL.2015 10:15:32

Lowest Band Edge / Full RB



Date: 25.JUL.2015 09:57:12

Highest Band Edge / Full RB

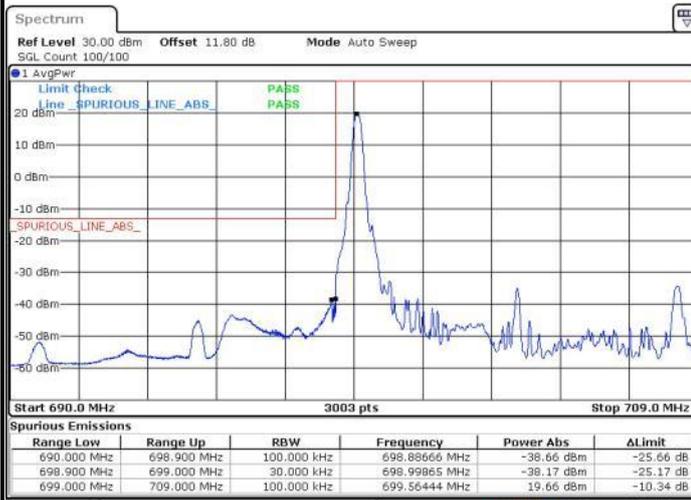


Date: 25.JUL.2015 10:09:49



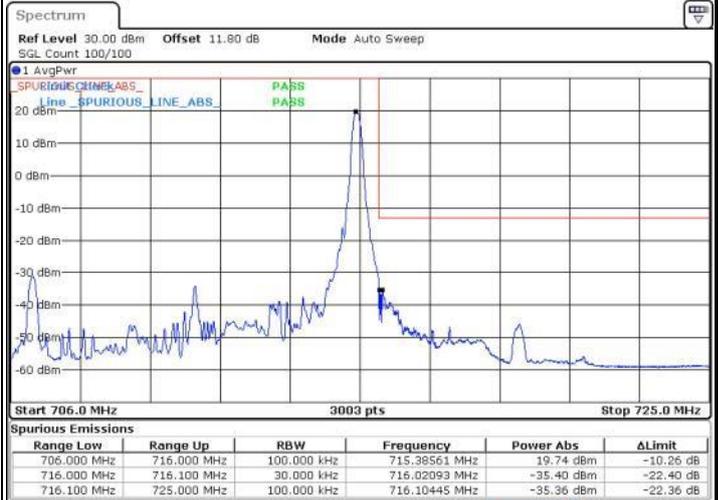
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 25.JUL.2015 10:01:00

Highest Band Edge / 1 RB



Date: 25.JUL.2015 10:13:38

Lowest Band Edge / Full RB



Date: 25.JUL.2015 09:59:06

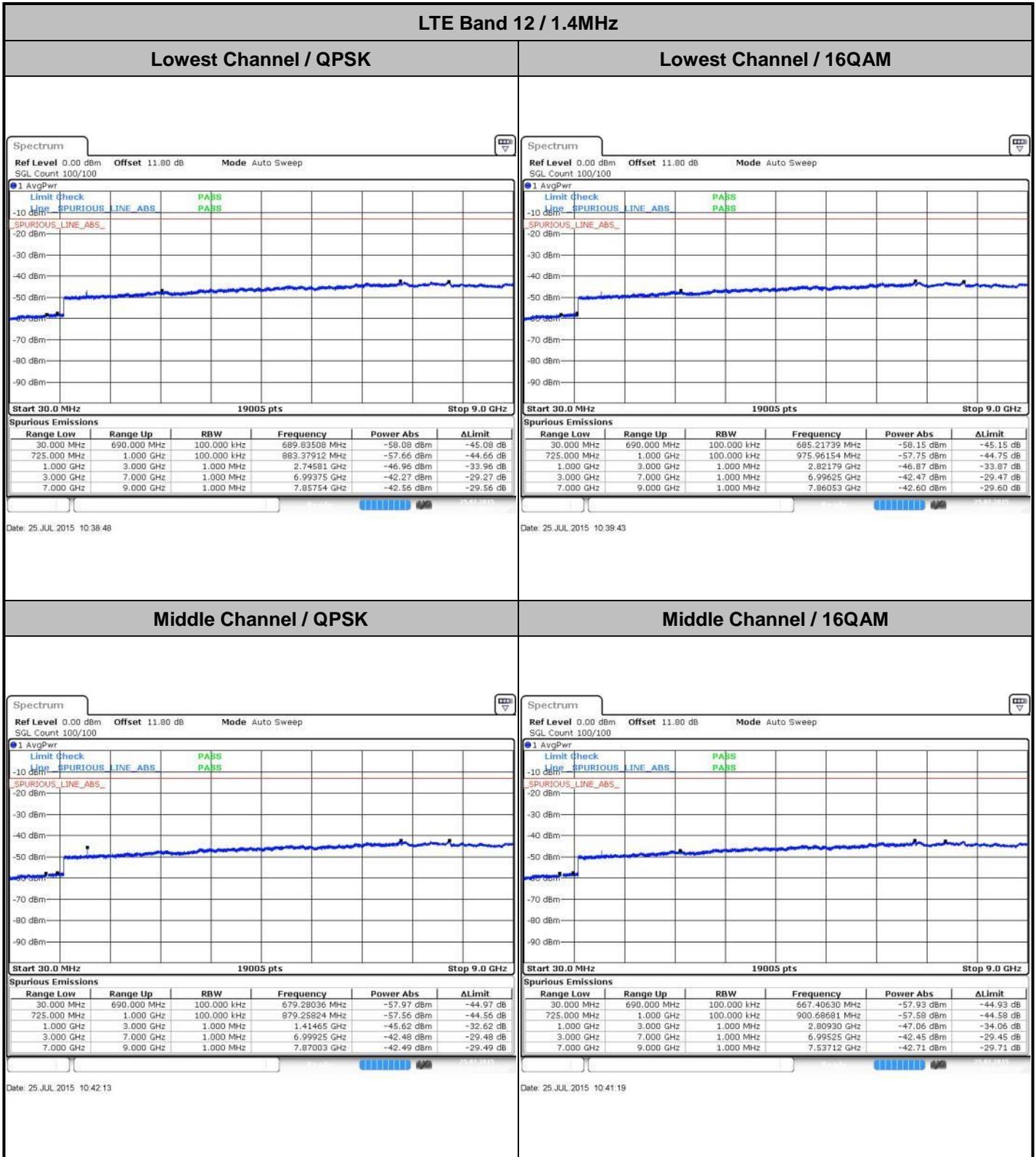
Highest Band Edge / Full RB



Date: 25.JUL.2015 10:11:44



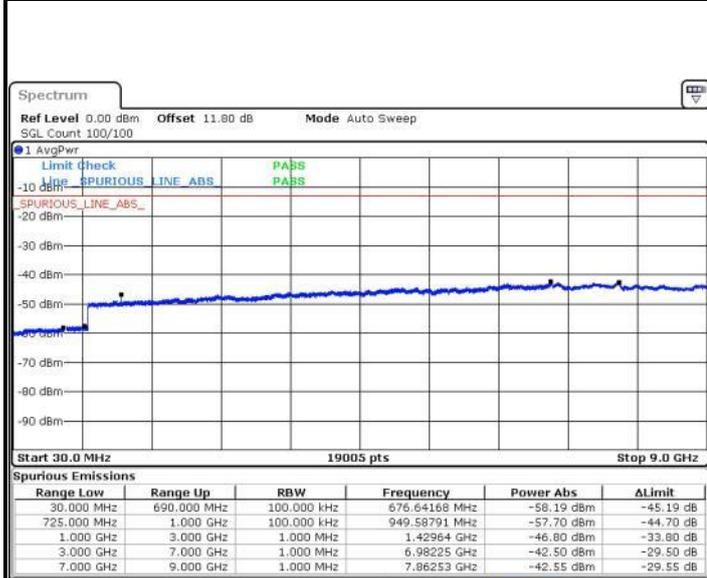
Conducted Spurious Emission





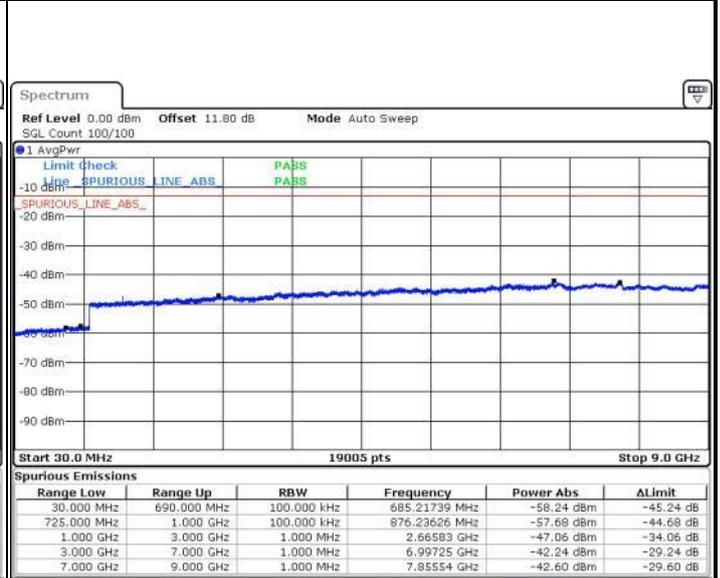
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 25.JUL.2015 10:51:27

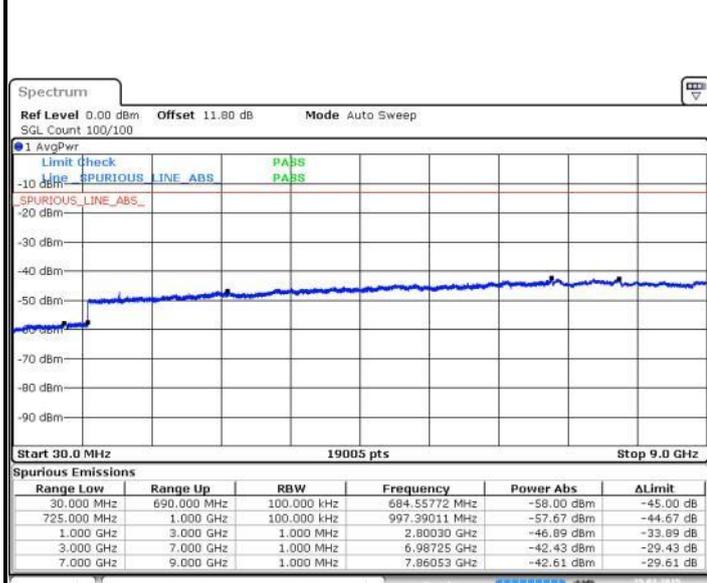
Highest Channel / 16QAM



Date: 25.JUL.2015 10:52:21

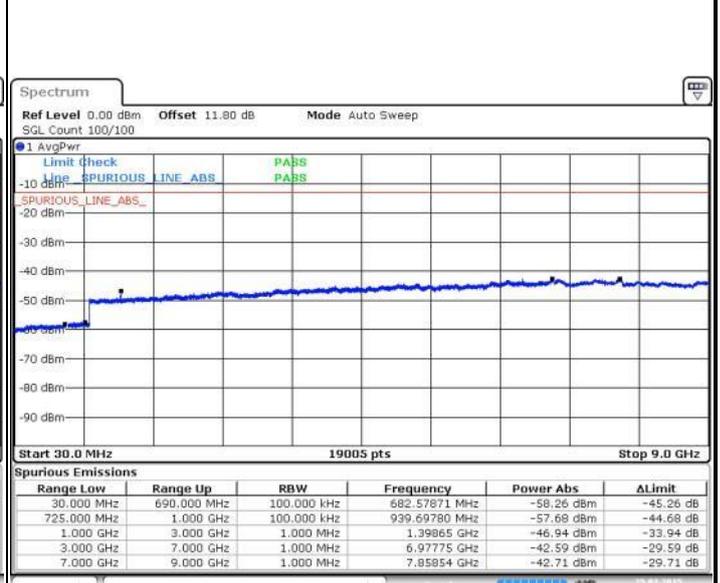
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 25.JUL.2015 09:18:16

Lowest Channel / 16QAM



Date: 25.JUL.2015 09:19:10



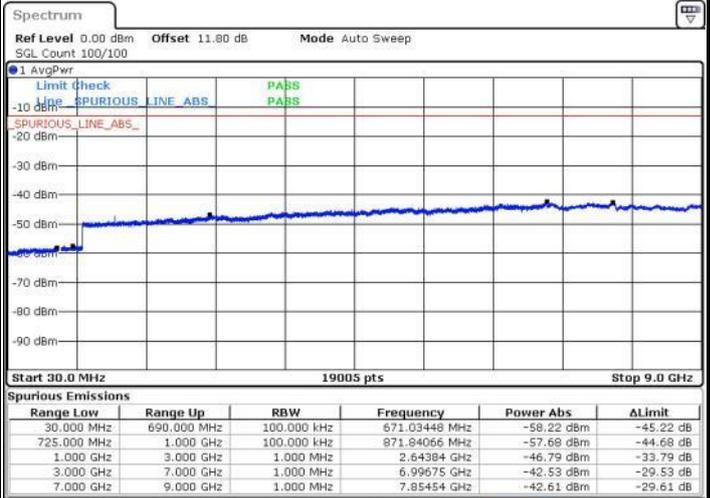
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



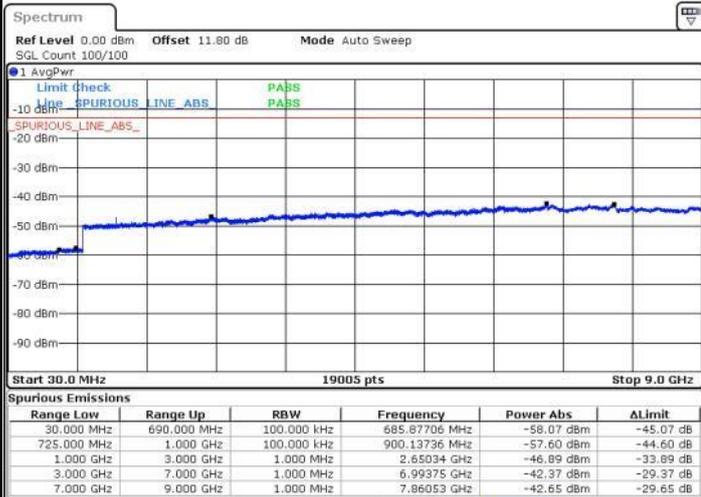
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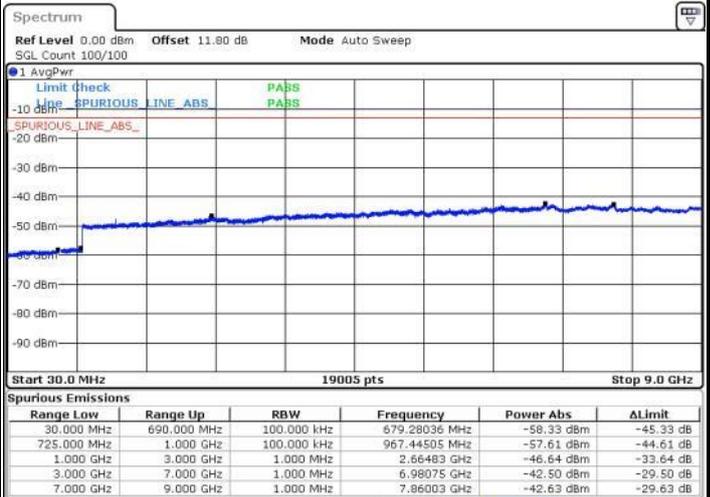
Date: 25.JUL.2015 09:20:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25.JUL.2015 09:30:55



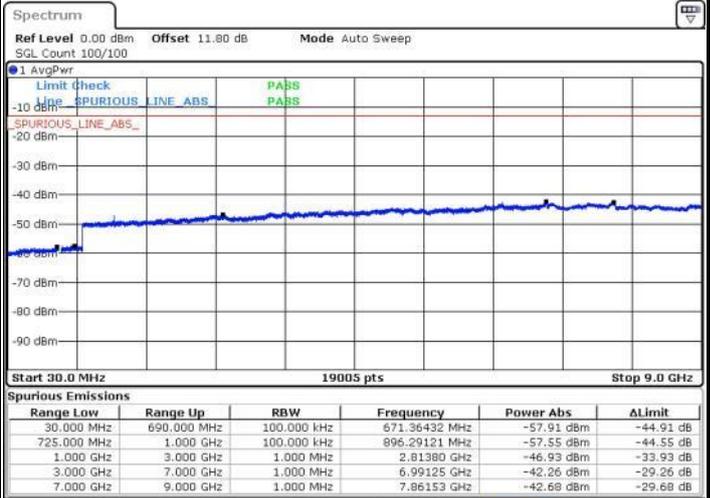
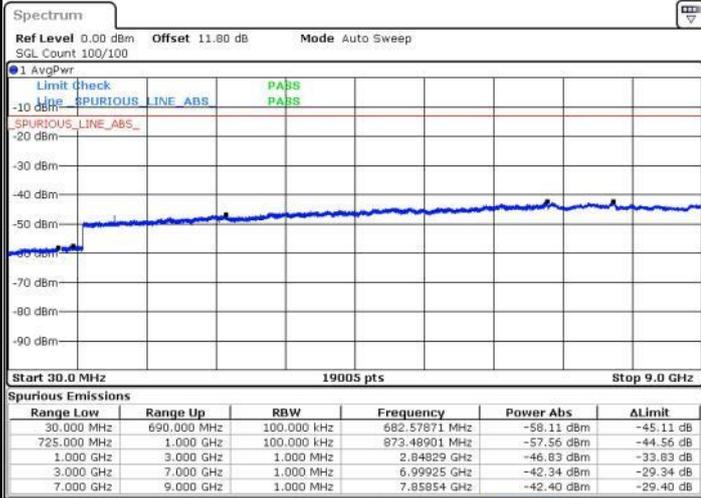
Date: 25.JUL.2015 09:31:48



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

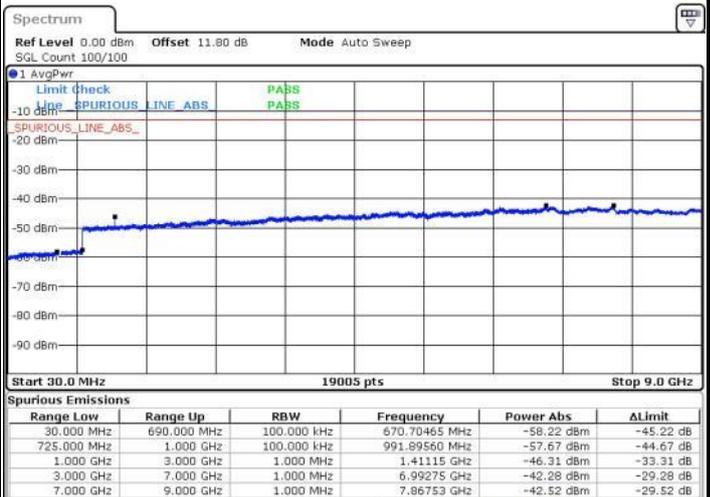
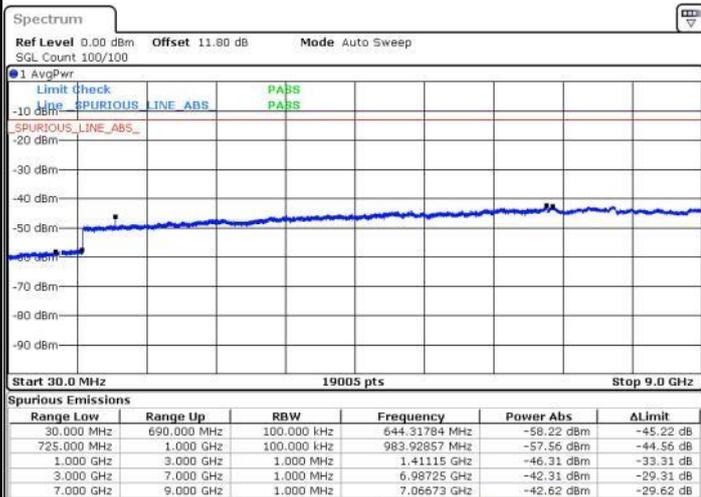


Date: 25.JUL.2015 09:41:03

Date: 25.JUL.2015 09:41:57

Middle Channel / QPSK

Middle Channel / 16QAM



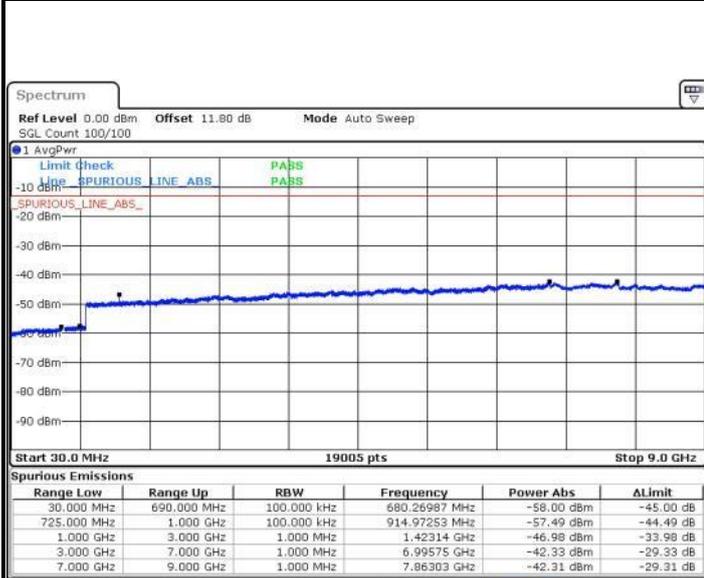
Date: 25.JUL.2015 09:44:28

Date: 25.JUL.2015 09:43:34



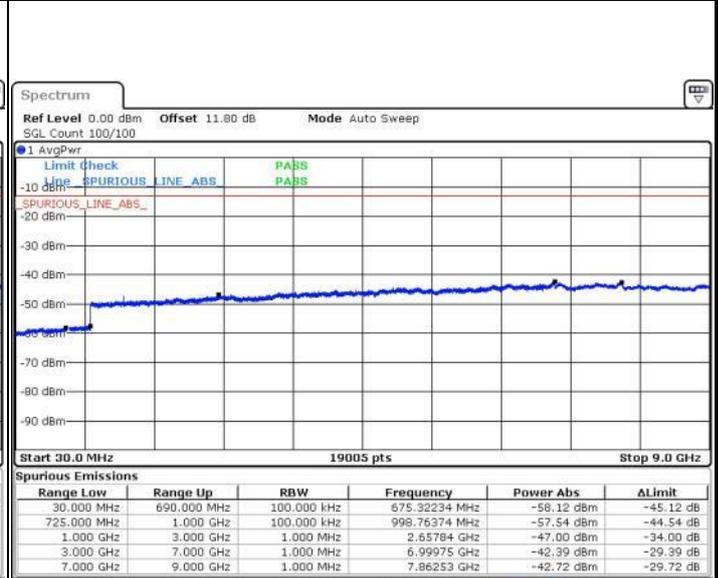
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 25.JUL.2015 09:54:36

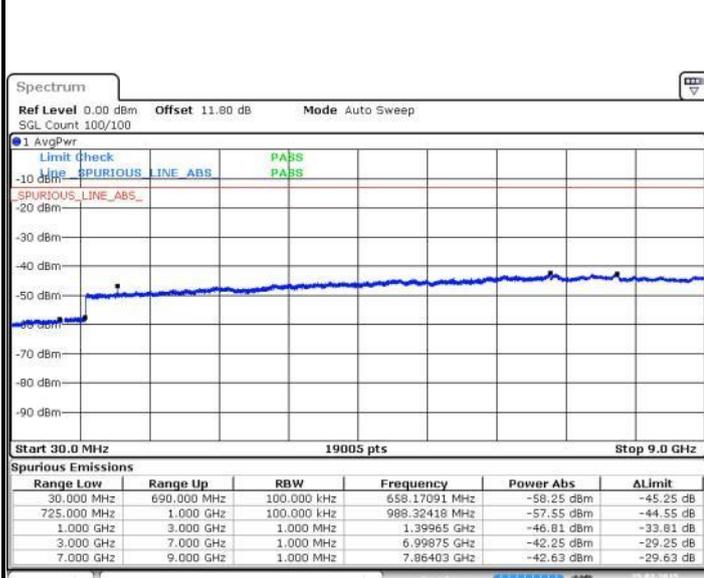
Highest Channel / 16QAM



Date: 25.JUL.2015 09:53:42

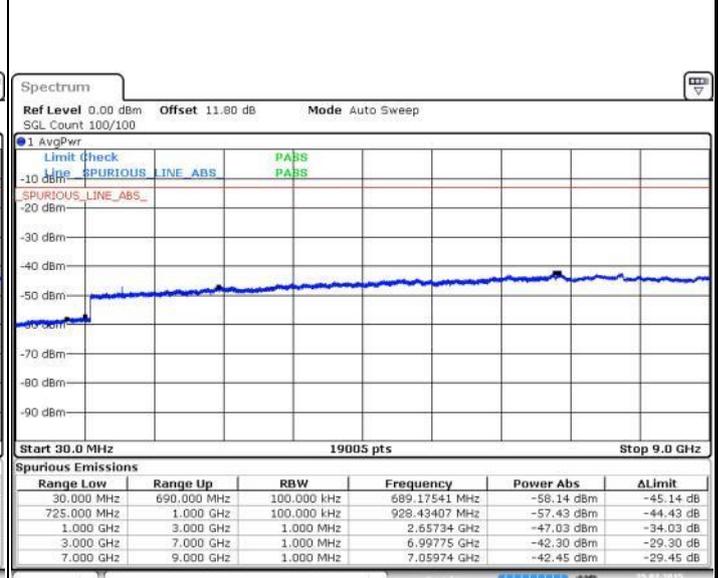
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 25.JUL.2015 10:03:48

Lowest Channel / 16QAM



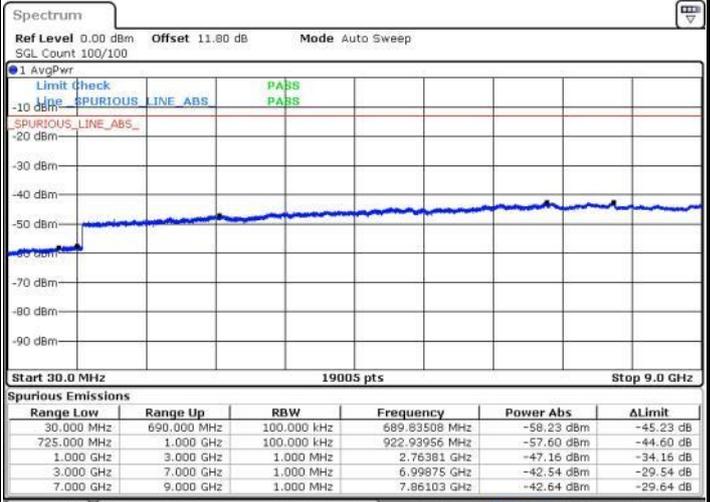
Date: 25.JUL.2015 10:04:44



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

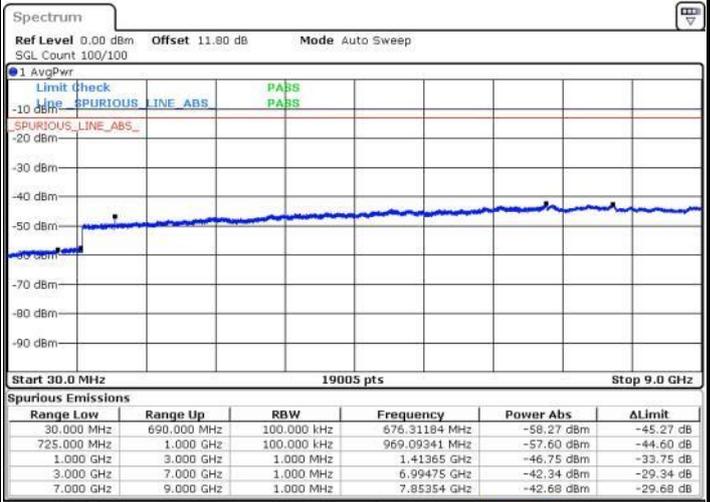
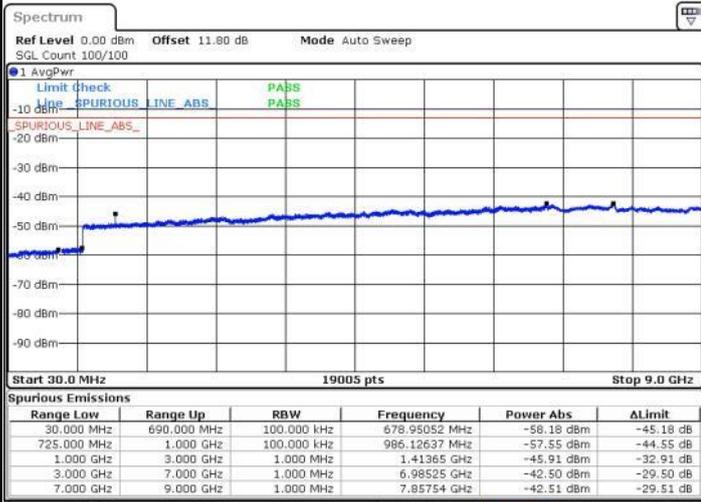


Date: 25.JUL.2015 10:07:14

Date: 25.JUL.2015 10:08:20

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25.JUL.2015 10:16:27

Date: 25.JUL.2015 10:17:21



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	0.0020	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

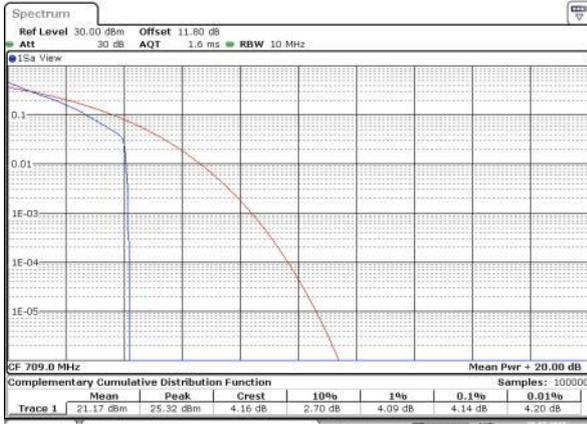
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	4.87	4.84	5.91	PASS
Middle CH	4.23	4.93	5.16	5.88	
Highest CH	4.46	4.84	5.39	5.94	



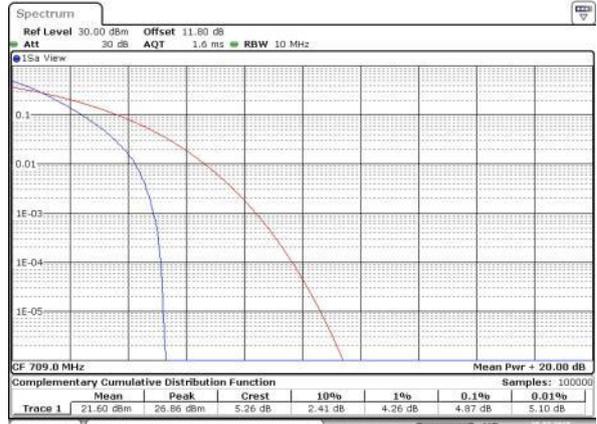
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



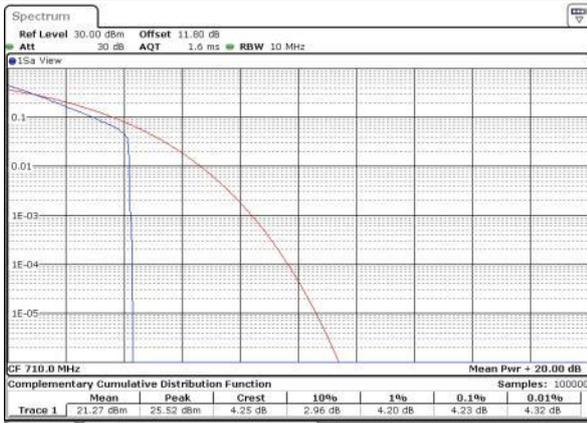
Date: 25.JUL.2015 00:52:31

Lowest Channel / Full RB



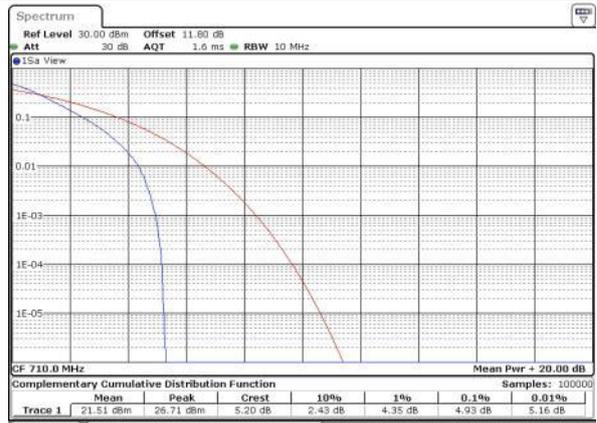
Date: 25.JUL.2015 00:52:49

Middle Channel/ 1RB



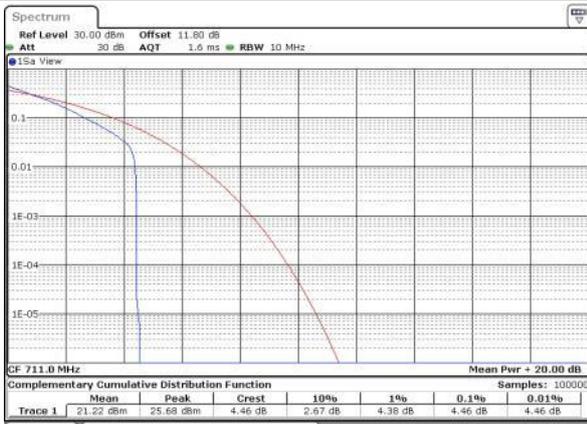
Date: 25.JUL.2015 00:53:18

Middle Channel / Full RB



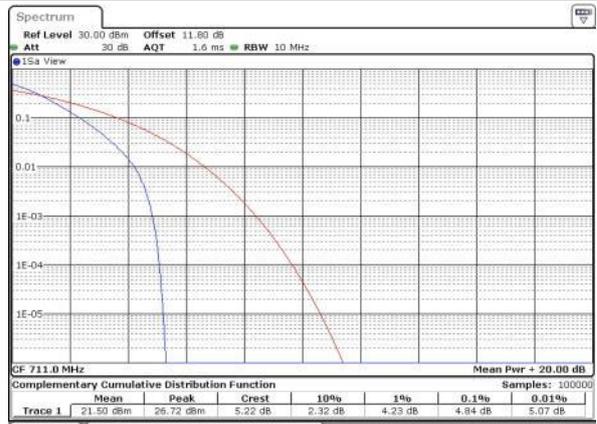
Date: 25.JUL.2015 00:53:43

Highest Channel/ 1RB



Date: 25.JUL.2015 00:54:17

Highest Channel / Full RB



Date: 25.JUL.2015 00:54:50