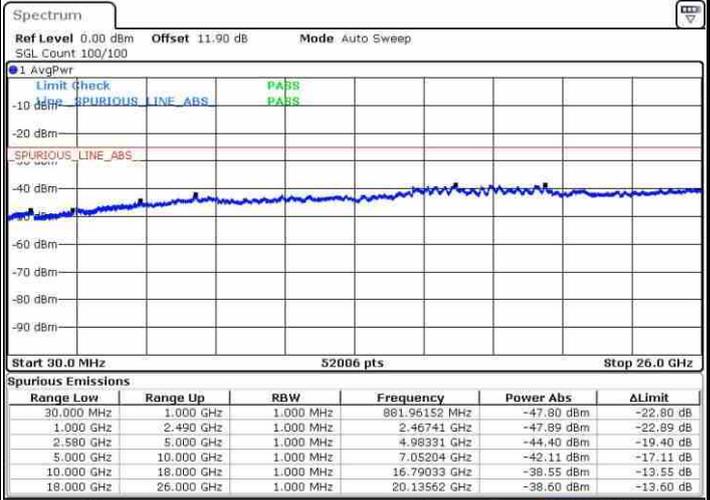
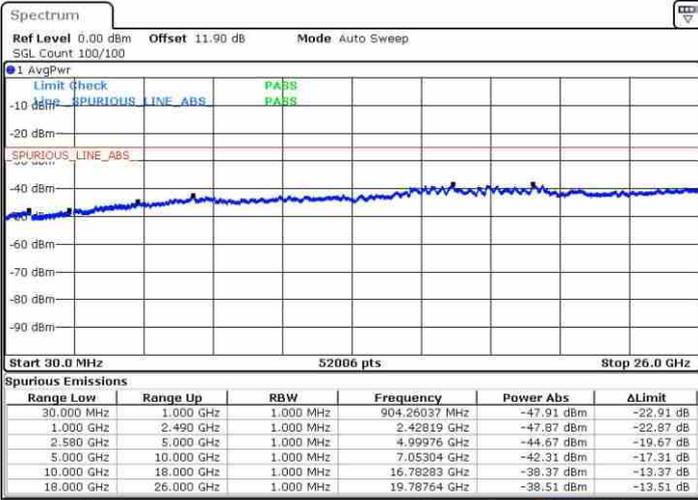




LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

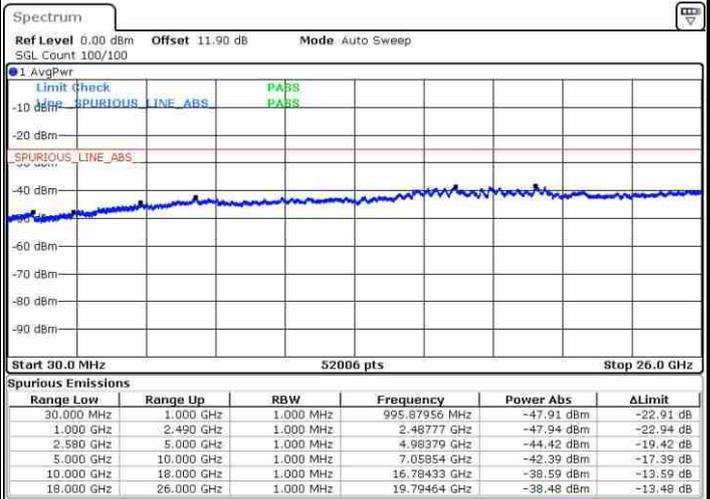
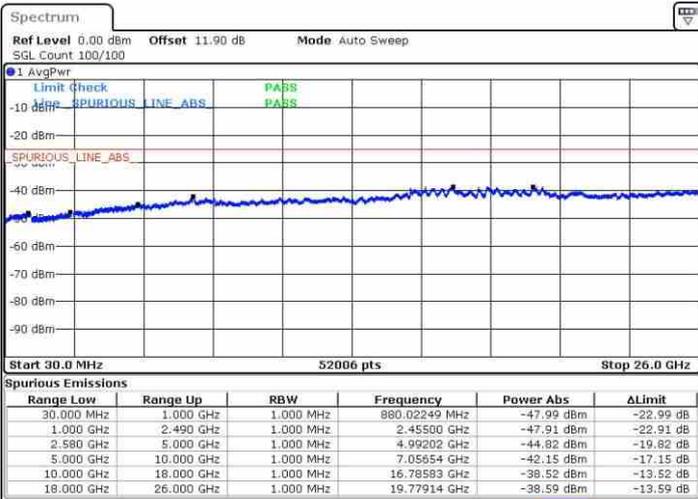


Date: 25.MAR.2016 21:24:49

Date: 25.MAR.2016 21:25:43

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25.MAR.2016 21:32:00

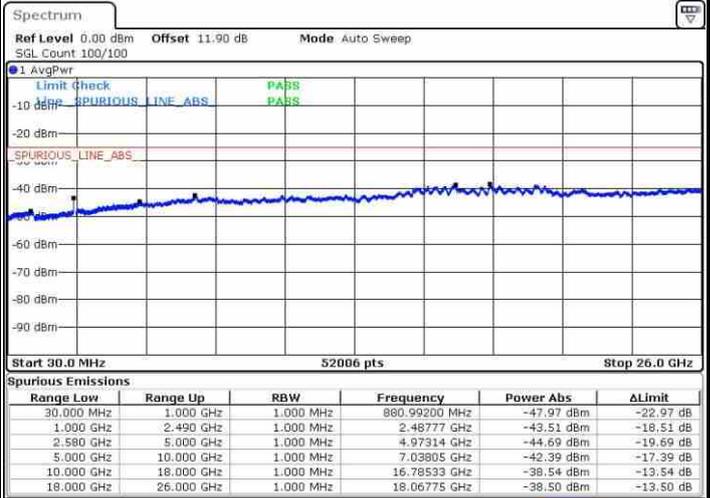
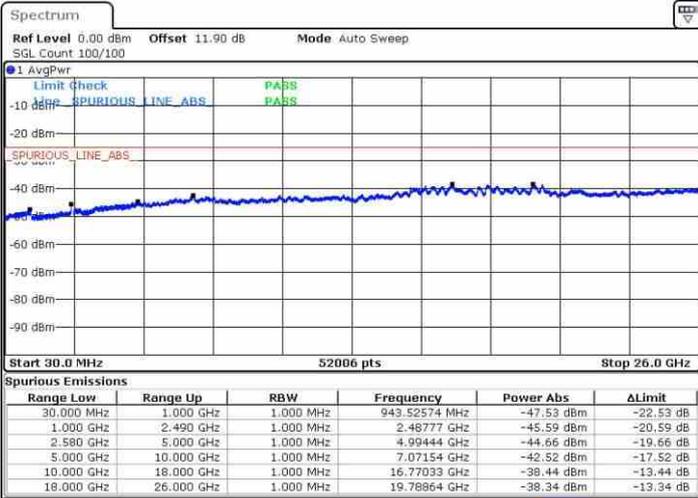
Date: 25.MAR.2016 21:32:54



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

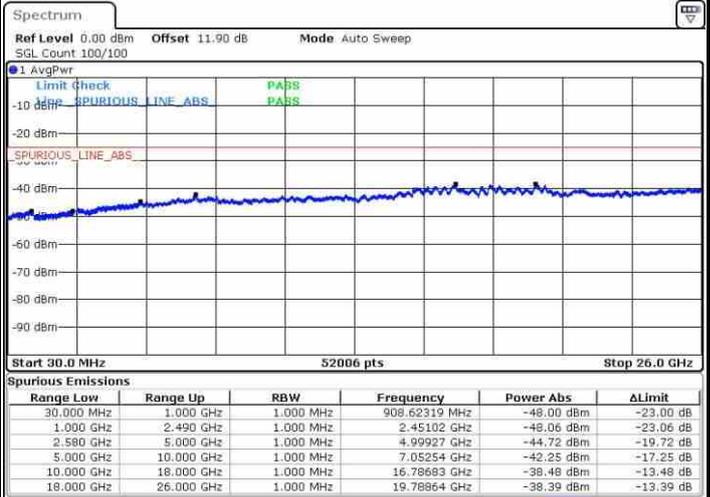
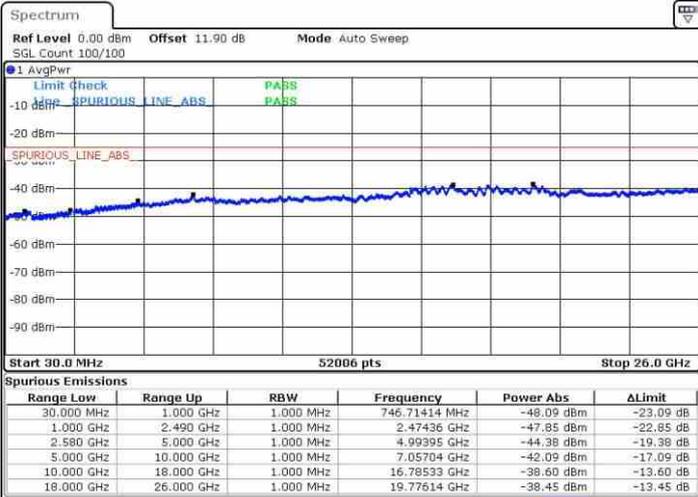


Date: 25.MAR.2016 19:36:48

Date: 25.MAR.2016 19:37:42

Middle Channel / QPSK

Middle Channel / 16QAM



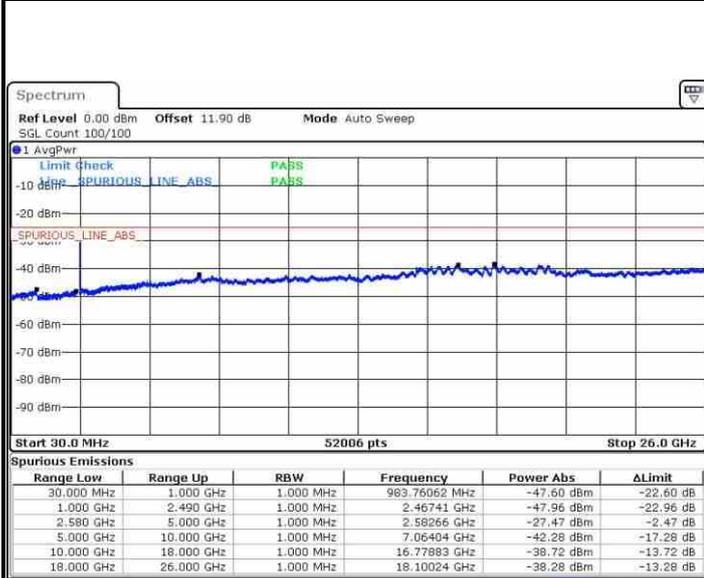
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Date: 25.MAR.2016 19:39:30



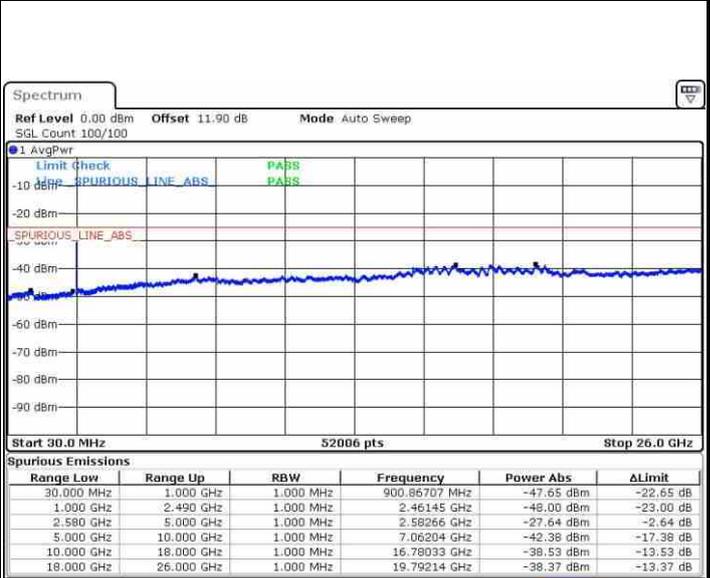
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 25.MAR.2016 19:40:24

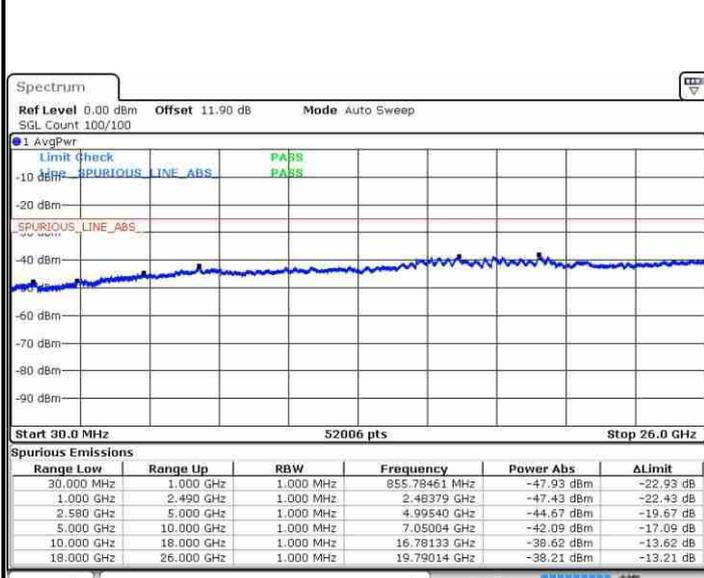
Highest Channel / 16QAM



Date: 25.MAR.2016 19:41:18

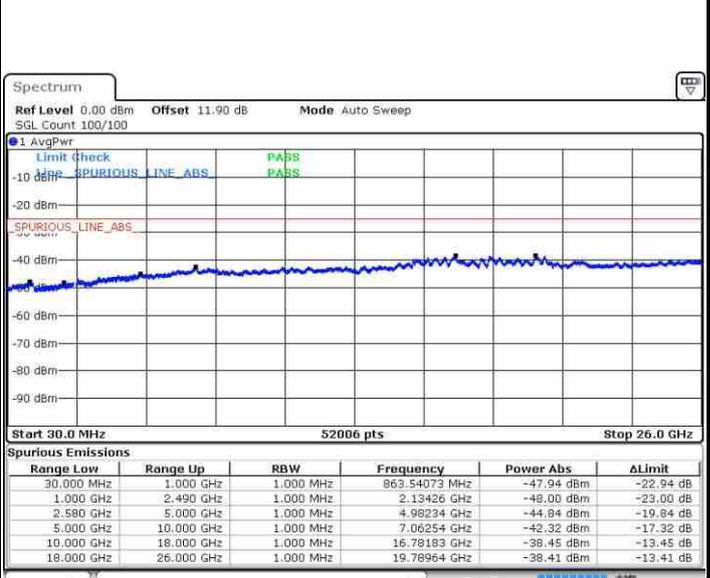
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 25.MAR.2016 19:42:12

Lowest Channel / 16QAM



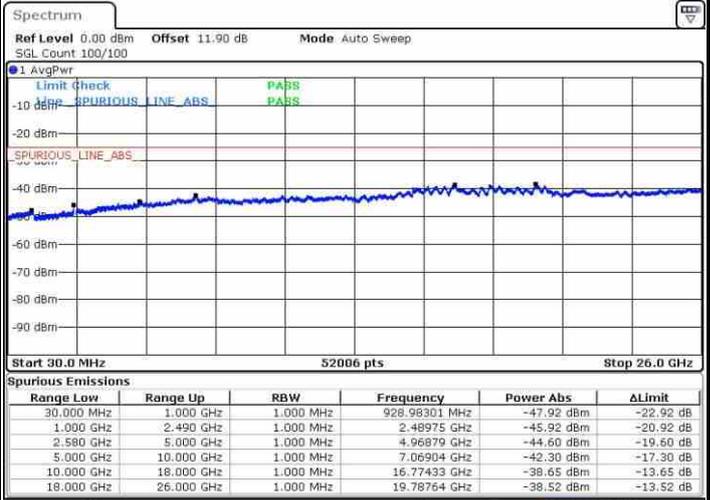
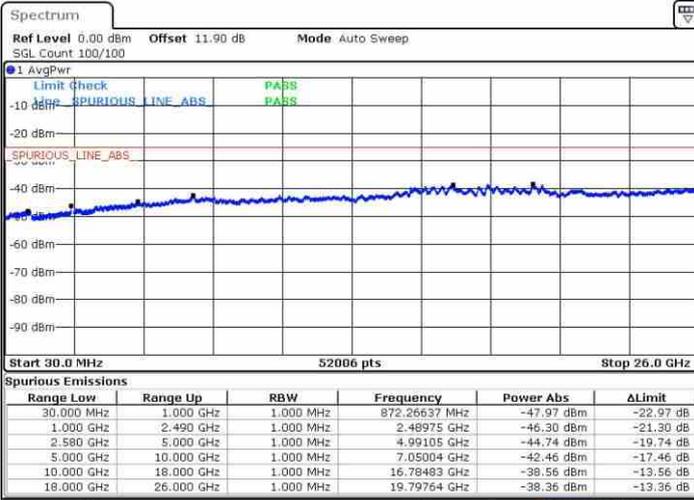
Date: 25.MAR.2016 19:43:06



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

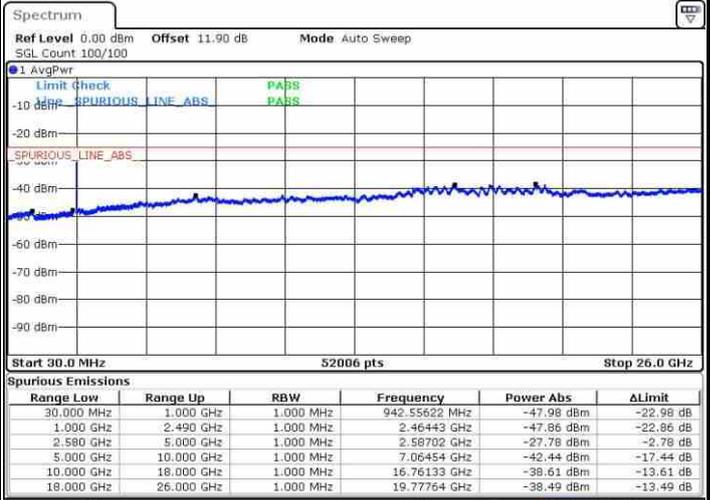
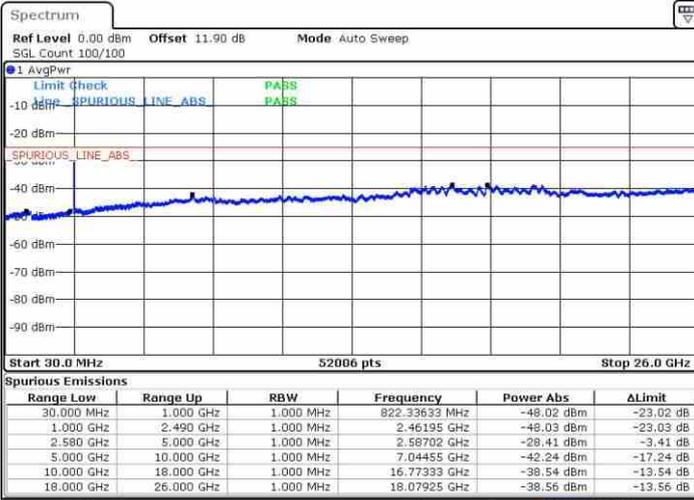


Date: 25.MAR.2016 19:44:00

Date: 25.MAR.2016 19:44:54

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25.MAR.2016 19:45:47

Date: 25.MAR.2016 19:46:41



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0049	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage = 3.8V. ; 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 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.94	5.51	4.9	6.29	PASS
Middle CH	4.03	5.62	5.07	6.43	
Highest CH	4.06	5.3	5.33	6.23	



LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 23 FEB 2016 15:58:57

Lowest Channel / Full RB



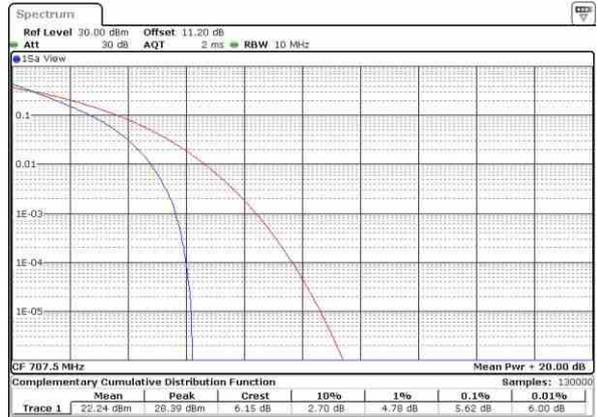
Date: 23 FEB 2016 15:58:47

Middle Channel / 1RB



Date: 23 FEB 2016 15:59:13

Middle Channel / Full RB



Date: 23 FEB 2016 15:59:23

Highest Channel / 1RB



Date: 23 FEB 2016 15:59:45

Highest Channel / Full RB

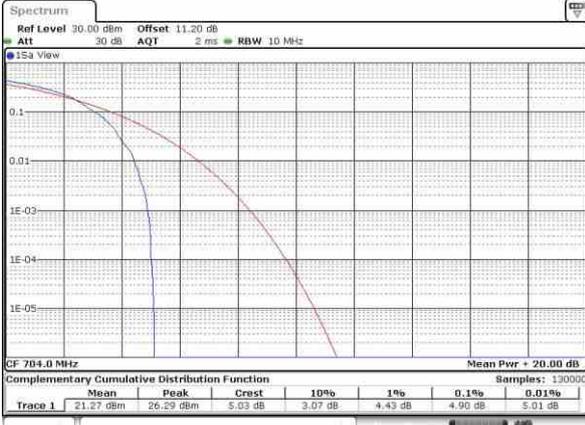


Date: 23 FEB 2016 15:59:34



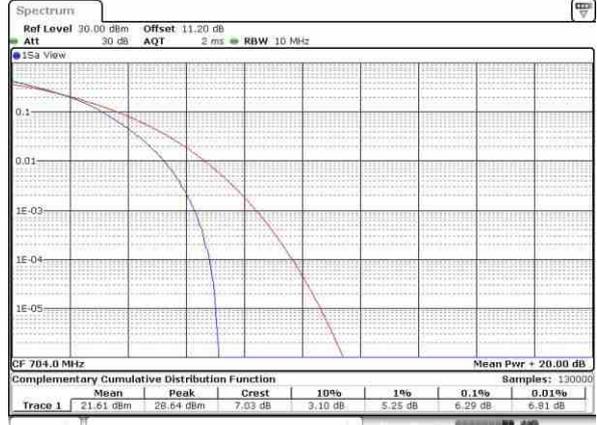
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 23 FEB 2016 15:57:30

Lowest Channel / Full RB



Date: 23 FEB 2016 15:57:19

Middle Channel / 1RB



Date: 23 FEB 2016 15:57:44

Middle Channel / Full RB



Date: 23 FEB 2016 15:58:02

Highest Channel / 1RB



Date: 23 FEB 2016 15:58:36

Highest Channel / Full RB



Date: 23 FEB 2016 15:58:19



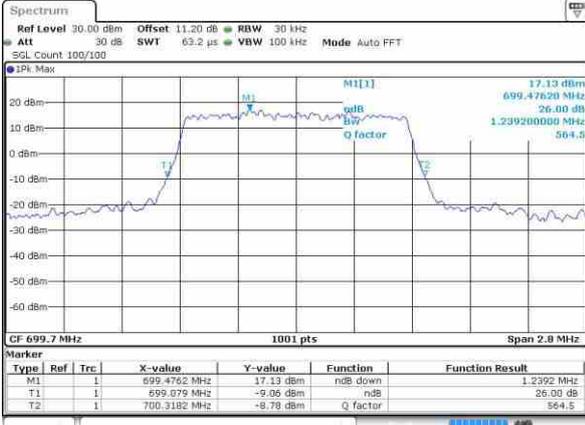
26dB Bandwidth

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	1.27	3	3.02	4.99	5	9.83	9.97	-	-	-	-
Middle CH	1.27	1.26	3.01	3	5.04	4.95	9.79	9.91	-	-	-	-
Highest CH	1.27	1.28	2.94	2.98	4.89	5	9.91	9.75	-	-	-	-



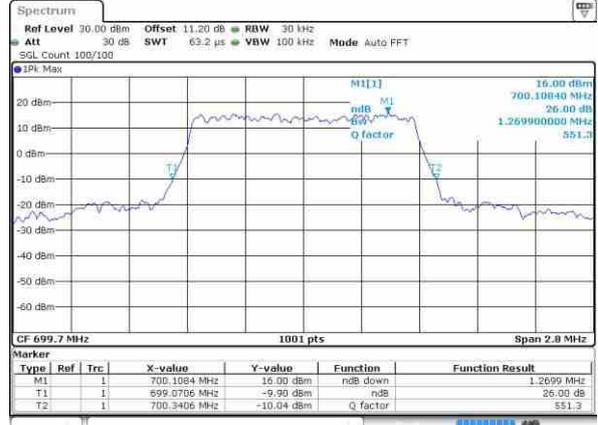
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



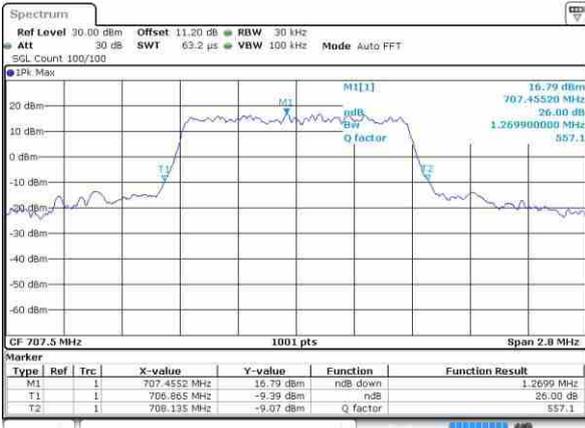
Date: 23 FEB 2016 15:32:25

Lowest Channel / 1.4MHz / 16QAM



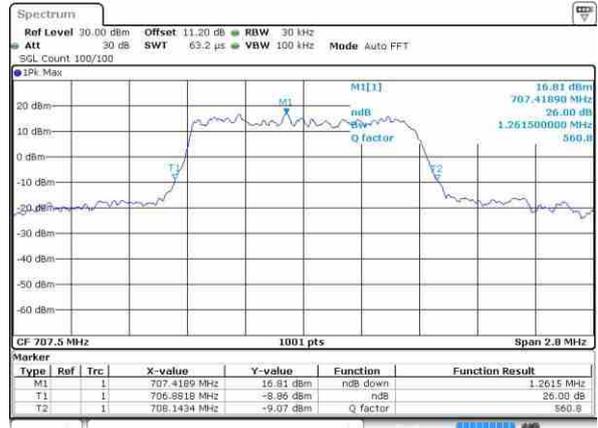
Date: 23 FEB 2016 15:32:14

Middle Channel / 1.4MHz / QPSK



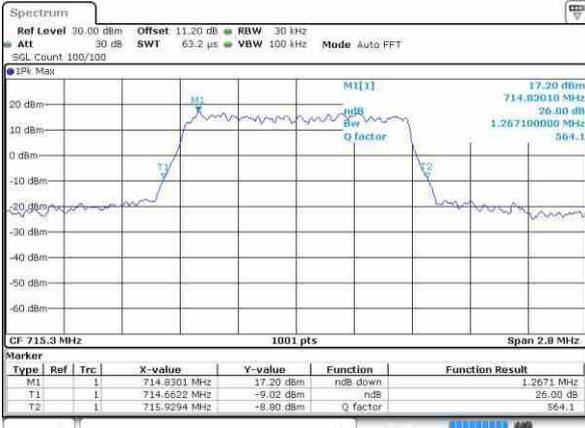
Date: 23 FEB 2016 15:42:53

Middle Channel / 1.4MHz / 16QAM



Date: 23 FEB 2016 15:43:04

Highest Channel / 1.4MHz / QPSK



Date: 23 FEB 2016 15:45:34

Highest Channel / 1.4MHz / 16QAM

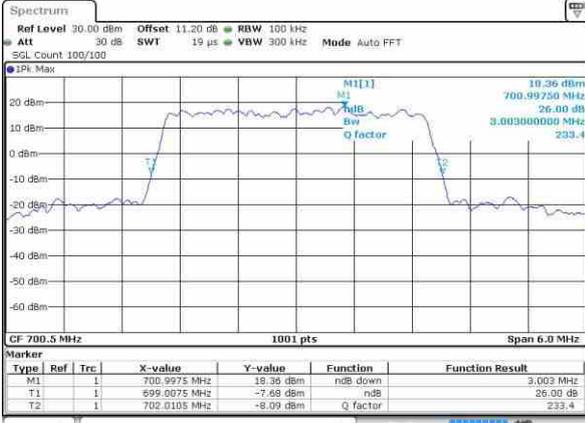


Date: 23 FEB 2016 15:45:23



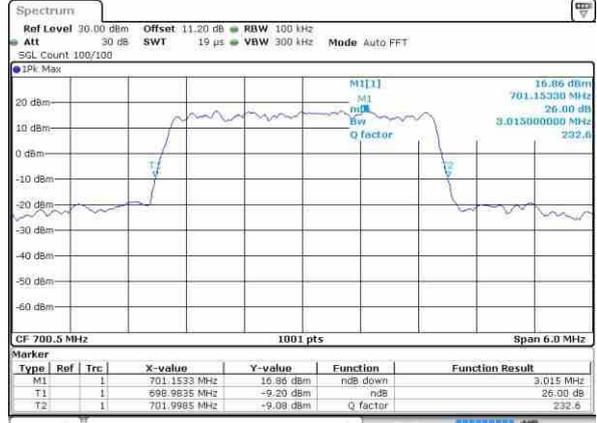
LTE Band 12

Lowest Channel / 3MHz / QPSK



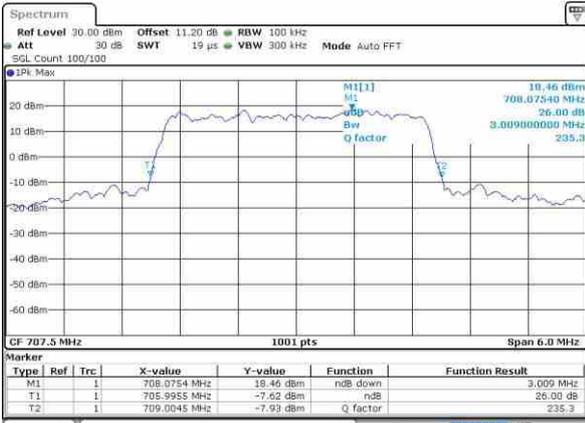
Date: 23 FEB 2016 13:58:41

Lowest Channel / 3MHz / 16QAM



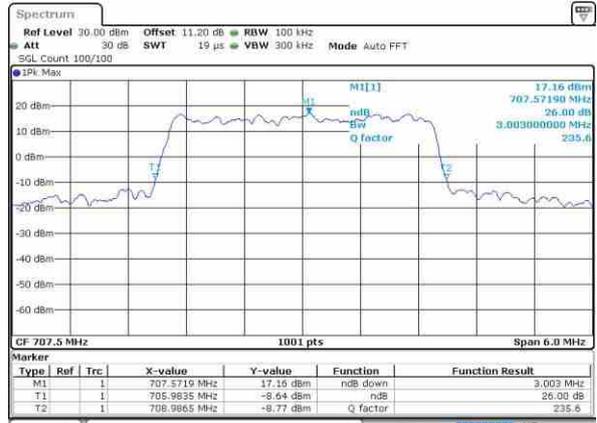
Date: 23 FEB 2016 13:58:30

Middle Channel / 3MHz / QPSK



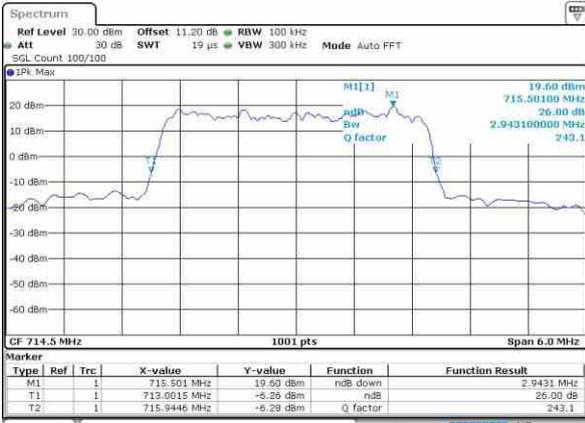
Date: 23 FEB 2016 14:09:11

Middle Channel / 3MHz / 16QAM



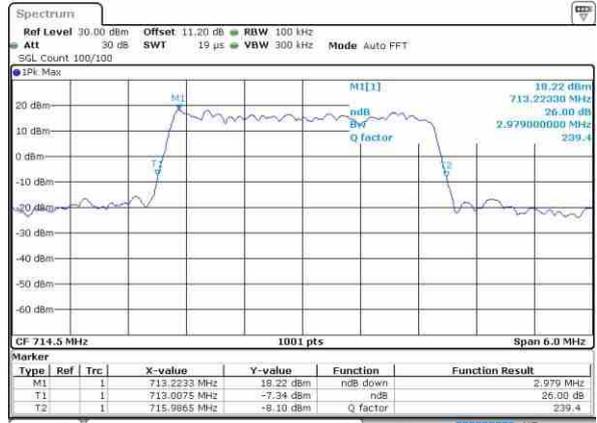
Date: 23 FEB 2016 14:09:21

Highest Channel / 3MHz / QPSK



Date: 23 FEB 2016 14:34:08

Highest Channel / 3MHz / 16QAM

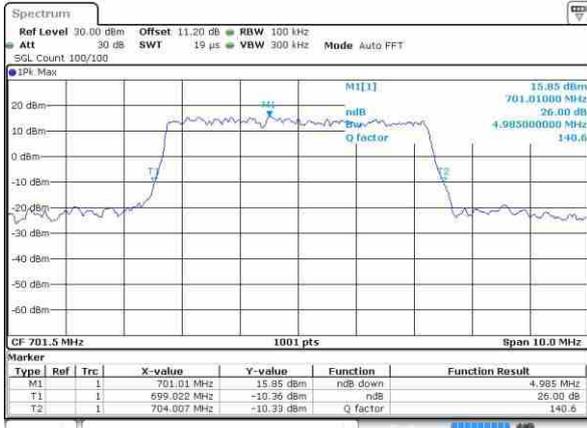


Date: 23 FEB 2016 14:33:57



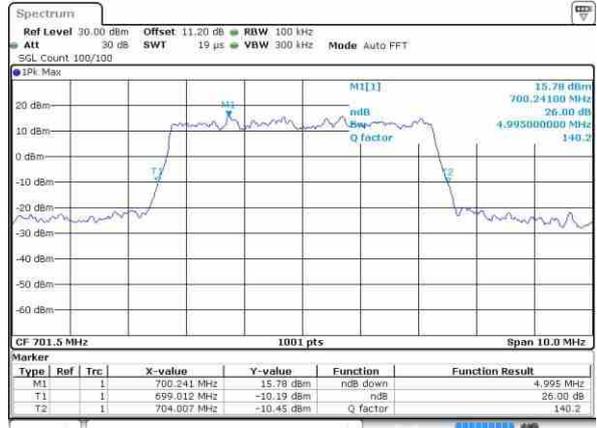
LTE Band 12

Lowest Channel / 5MHz / QPSK



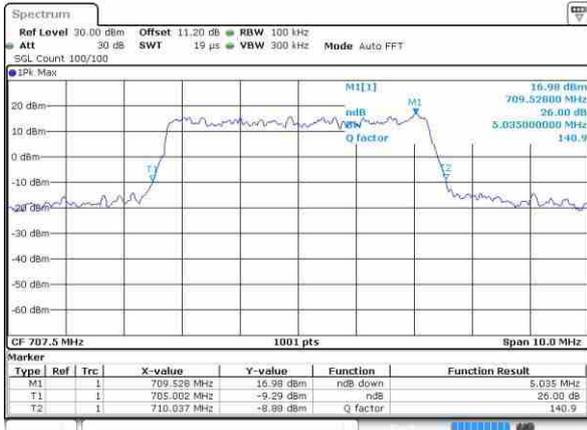
Date: 23 FEB 2016 14:44:47

Lowest Channel / 5MHz / 16QAM



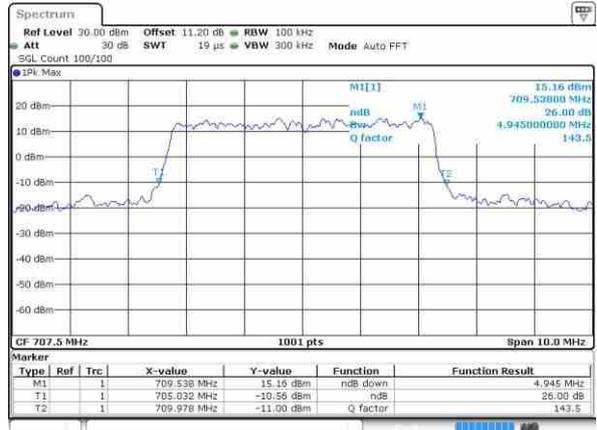
Date: 23 FEB 2016 14:44:37

Middle Channel / 5MHz / QPSK



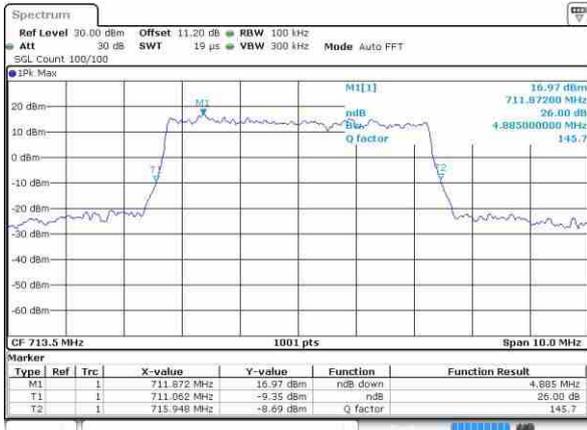
Date: 23 FEB 2016 14:55:16

Middle Channel / 5MHz / 16QAM



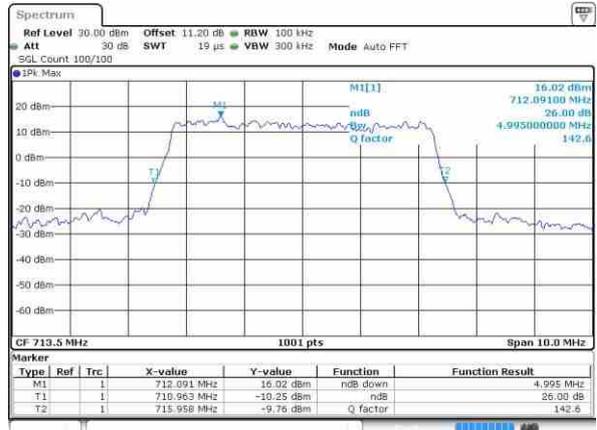
Date: 23 FEB 2016 14:55:26

Highest Channel / 5MHz / QPSK



Date: 23 FEB 2016 14:57:57

Highest Channel / 5MHz / 16QAM

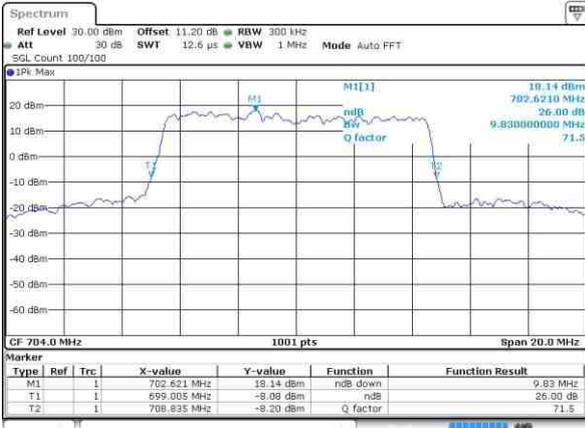


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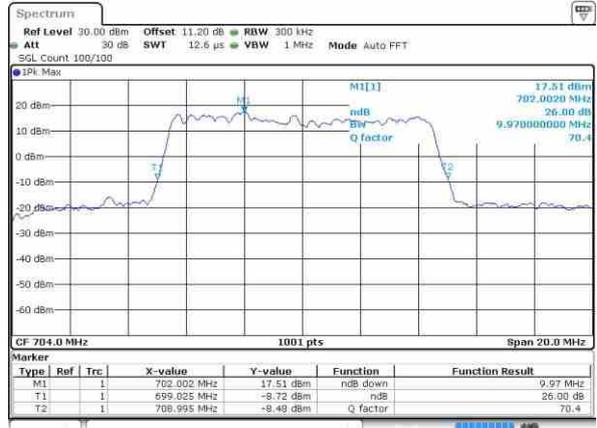
LTE Band 12

Lowest Channel / 10MHz / QPSK



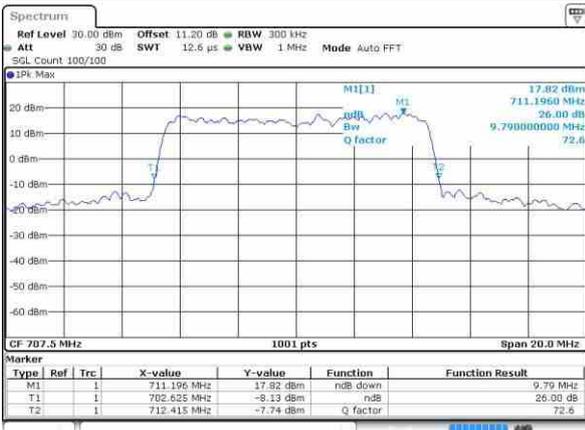
Date: 23 FEB 2016 15:08:36

Lowest Channel / 10MHz / 16QAM



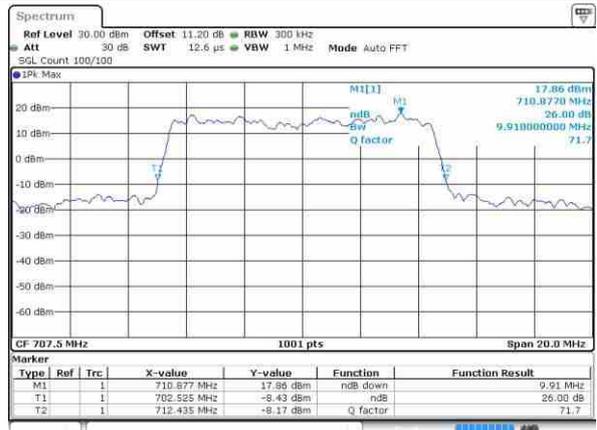
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Middle Channel / 10MHz / QPSK



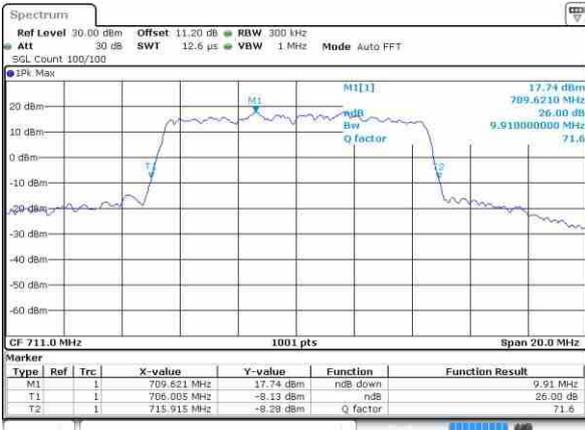
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Middle Channel / 10MHz / 16QAM



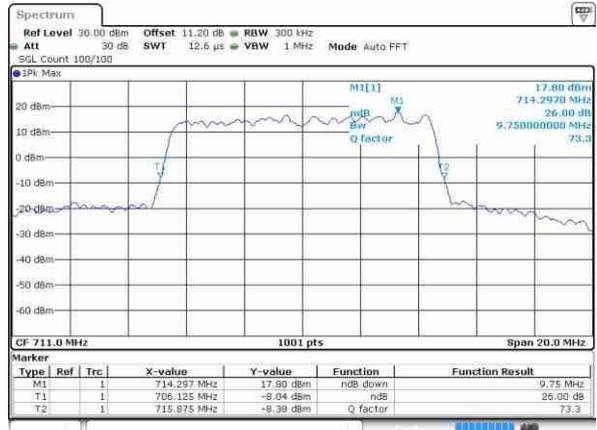
Date: 23 FEB 2016 15:19:15

Highest Channel / 10MHz / QPSK



Date: 23 FEB 2016 15:21:45

Highest Channel / 10MHz / 16QAM



Date: 23 FEB 2016 15:21:35



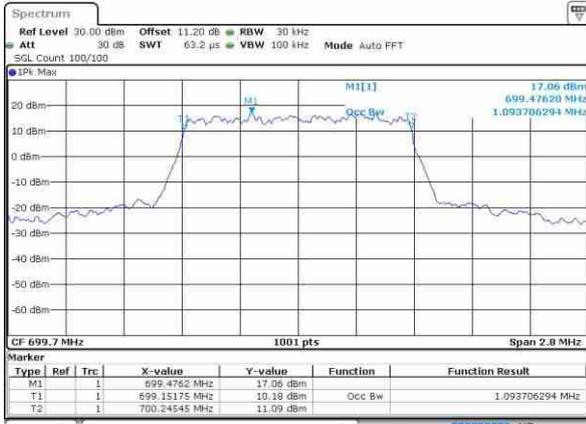
Occupied Bandwidth

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	2.72	2.73	4.49	4.5	9.09	9.07	-	-	-	-
Middle CH	1.09	1.1	2.72	2.73	4.51	4.53	9.11	9.07	-	-	-	-
Highest CH	1.1	1.1	2.72	2.73	4.49	4.52	9.03	8.99	-	-	-	-



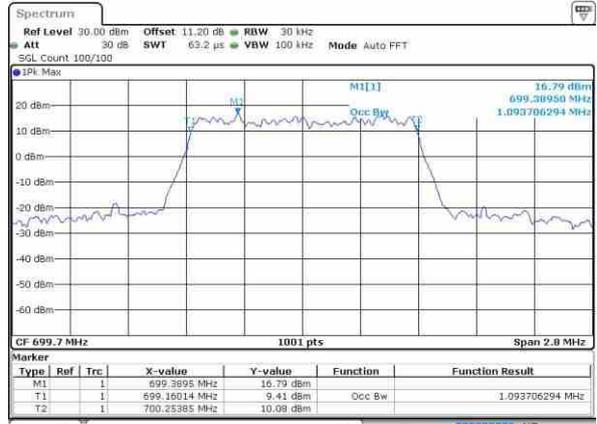
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



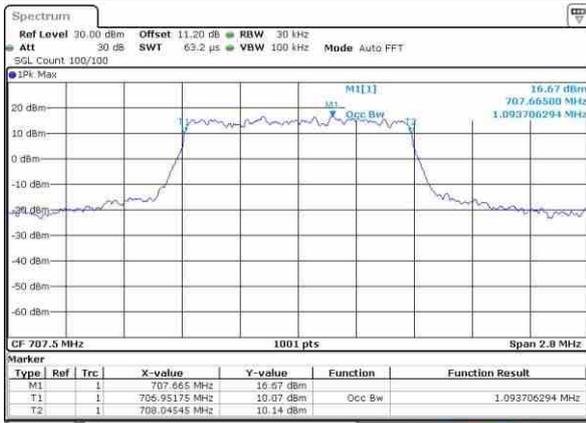
Date: 23 FEB 2016 15:31:53

Lowest Channel / 1.4MHz / 16QAM



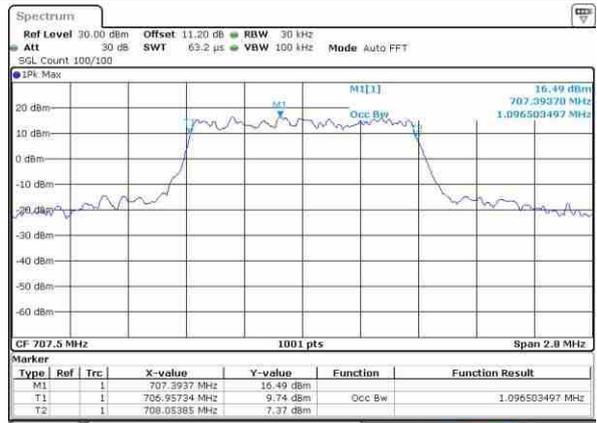
Date: 23 FEB 2016 15:32:04

Middle Channel / 1.4MHz / QPSK



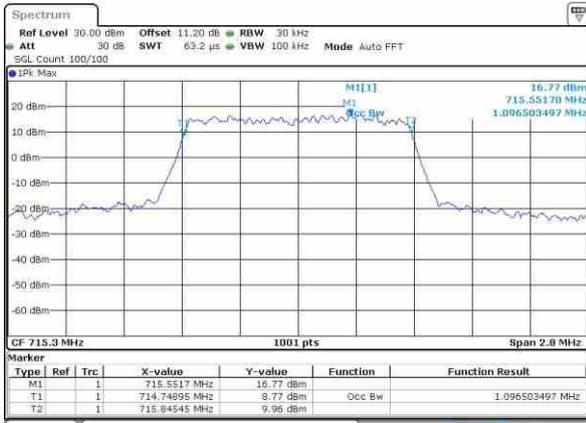
Date: 23 FEB 2016 15:42:43

Middle Channel / 1.4MHz / 16QAM



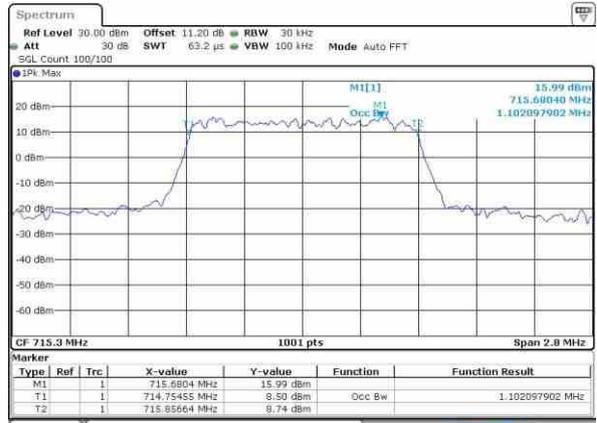
Date: 23 FEB 2016 15:42:32

Highest Channel / 1.4MHz / QPSK



Date: 23 FEB 2016 15:45:02

Highest Channel / 1.4MHz / 16QAM

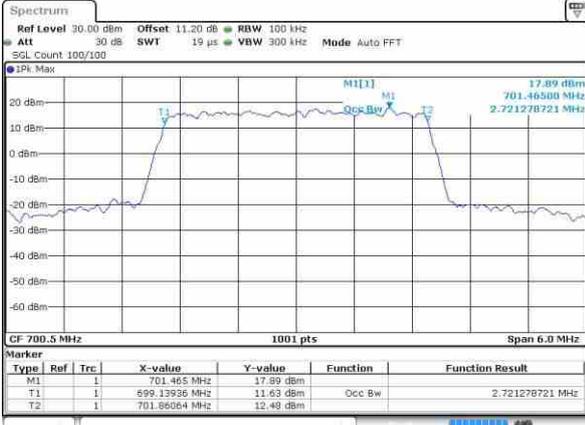


Date: 23 FEB 2016 15:45:13



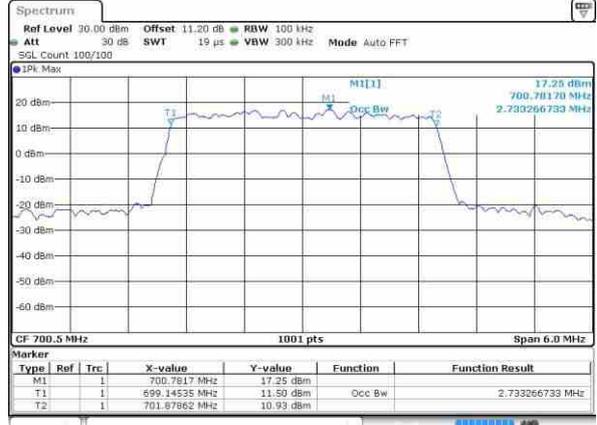
LTE Band 12

Lowest Channel / 3MHz / QPSK



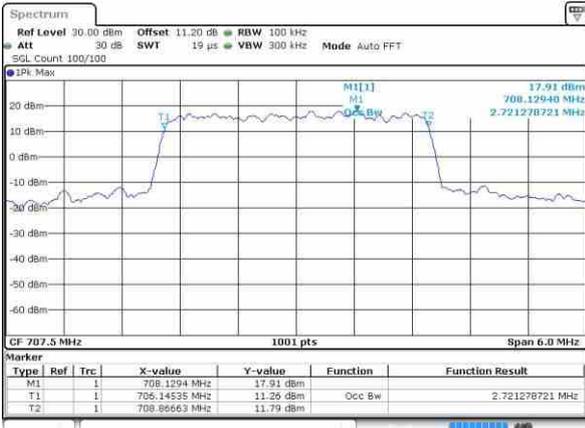
Date: 23 FEB 2016 13:58:09

Lowest Channel / 3MHz / 16QAM



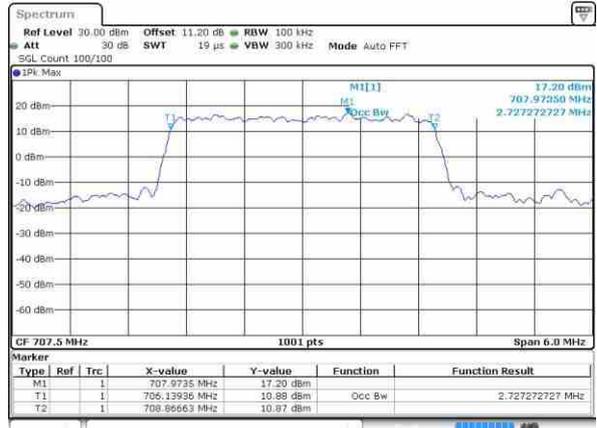
Date: 23 FEB 2016 13:58:19

Middle Channel / 3MHz / QPSK



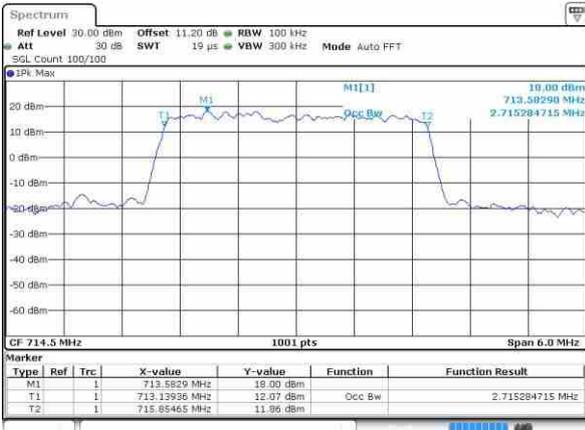
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Middle Channel / 3MHz / 16QAM



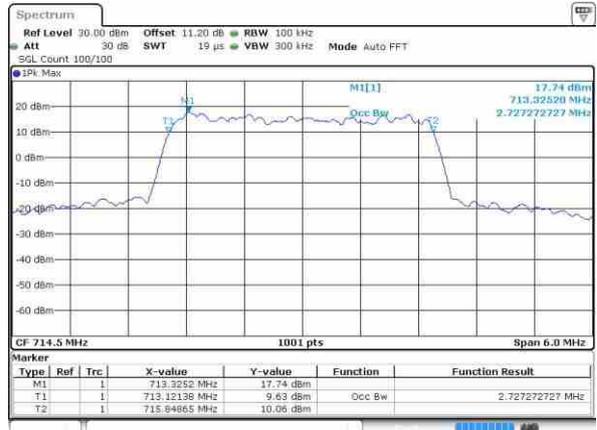
Date: 23 FEB 2016 14:08:50

Highest Channel / 3MHz / QPSK



Date: 23 FEB 2016 14:33:36

Highest Channel / 3MHz / 16QAM

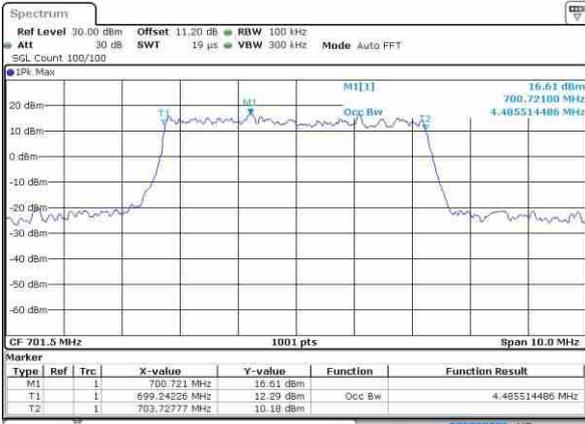


Date: 23 FEB 2016 14:33:46



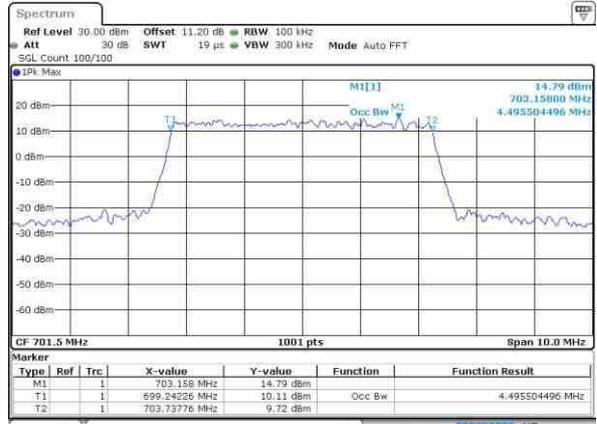
LTE Band 12

Lowest Channel / 5MHz / QPSK



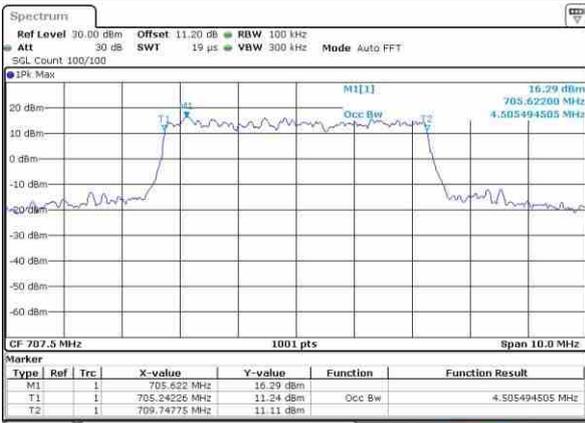
Date: 23 FEB 2016 14:44:16

Lowest Channel / 5MHz / 16QAM



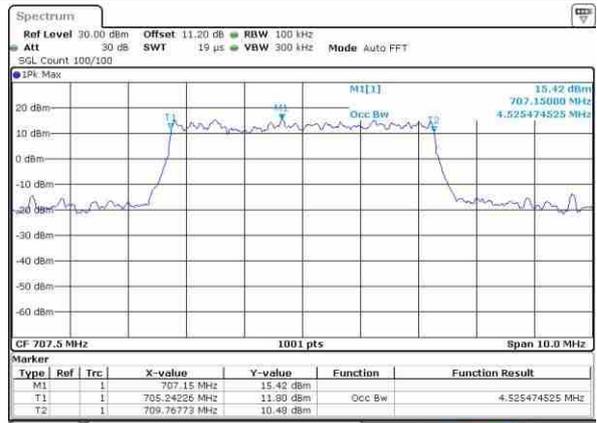
Date: 23 FEB 2016 14:44:26

Middle Channel / 5MHz / QPSK



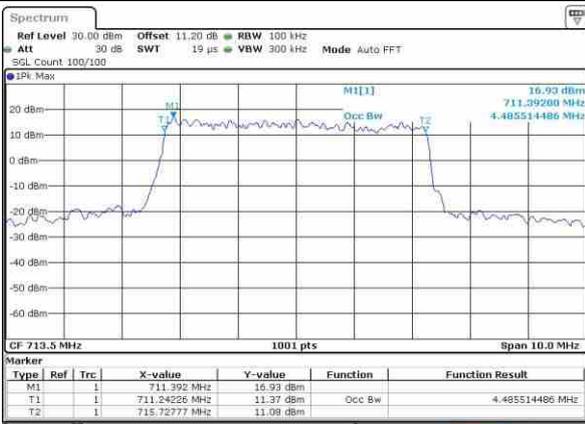
Date: 23 FEB 2016 14:55:05

Middle Channel / 5MHz / 16QAM



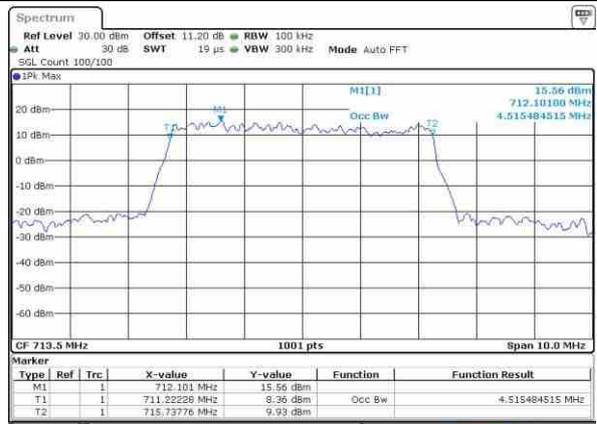
Date: 23 FEB 2016 14:54:55

Highest Channel / 5MHz / QPSK



Date: 23 FEB 2016 14:57:26

Highest Channel / 5MHz / 16QAM

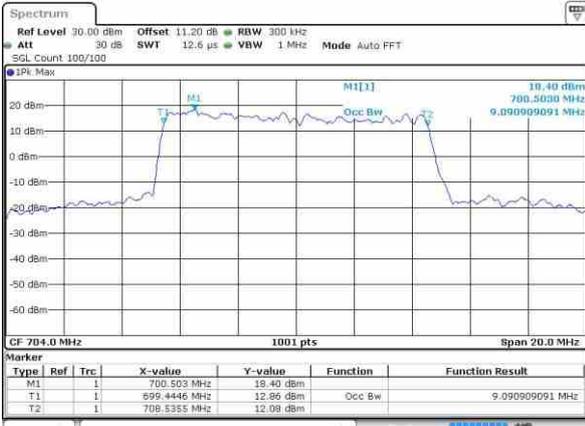


Date: 23 FEB 2016 14:57:36



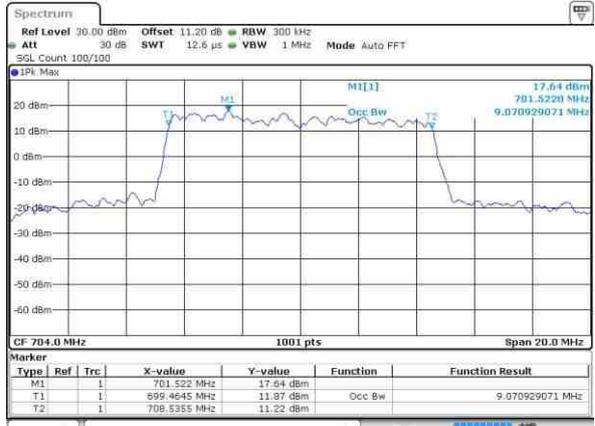
LTE Band 12

Lowest Channel / 10MHz / QPSK



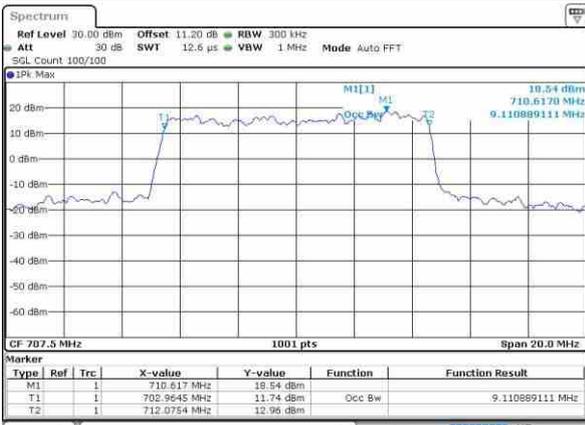
Date: 23 FEB 2016 15:08:05

Lowest Channel / 10MHz / 16QAM



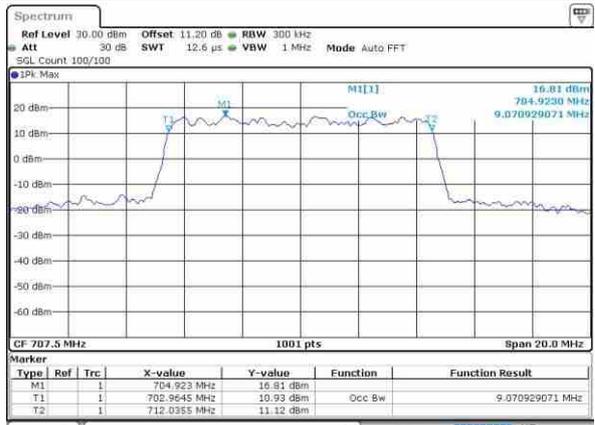
Date: 23 FEB 2016 15:08:15

Middle Channel / 10MHz / QPSK



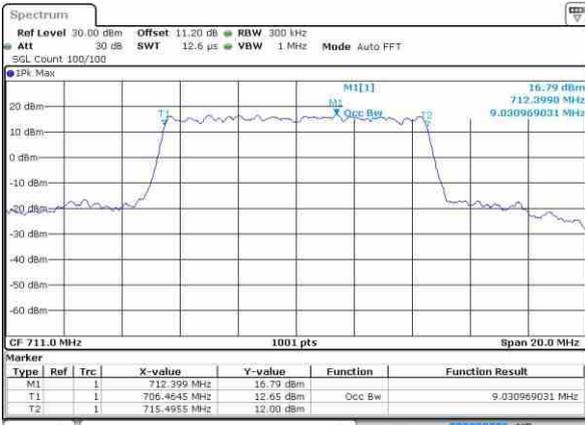
Date: 23 FEB 2016 15:18:54

Middle Channel / 10MHz / 16QAM



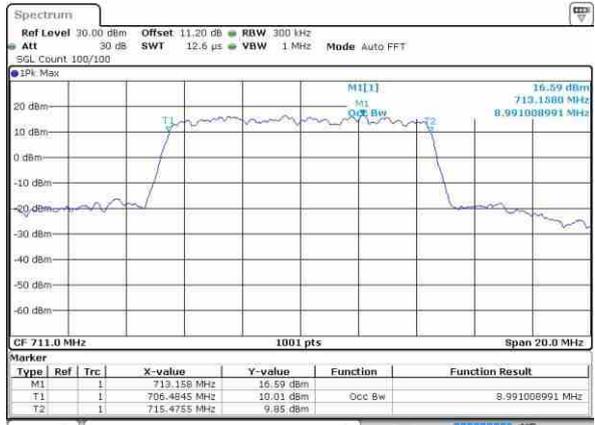
Date: 23 FEB 2016 15:18:44

Highest Channel / 10MHz / QPSK



Date: 23 FEB 2016 15:21:14

Highest Channel / 10MHz / 16QAM



Date: 23 FEB 2016 15:21:25

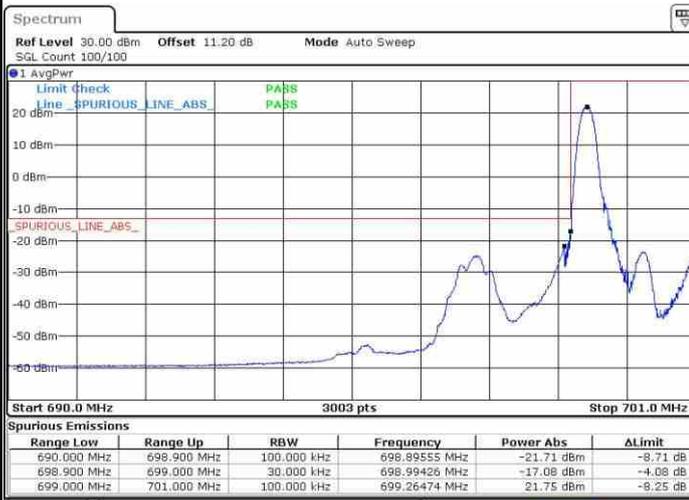


Conducted Band Edge



LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



Date: 23.FEB.2016 15:40:33

Highest Band Edge / 1RB



Date: 23.FEB.2016 15:53:42

Lowest Band Edge / Full RB



Date: 23.FEB.2016 15:34:26

Highest Band Edge / Full RB



Date: 23.FEB.2016 15:47:35



LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 23.FEB.2016 16:01:08



Date: 23.FEB.2016 15:51:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.FEB.2016 15:36:28

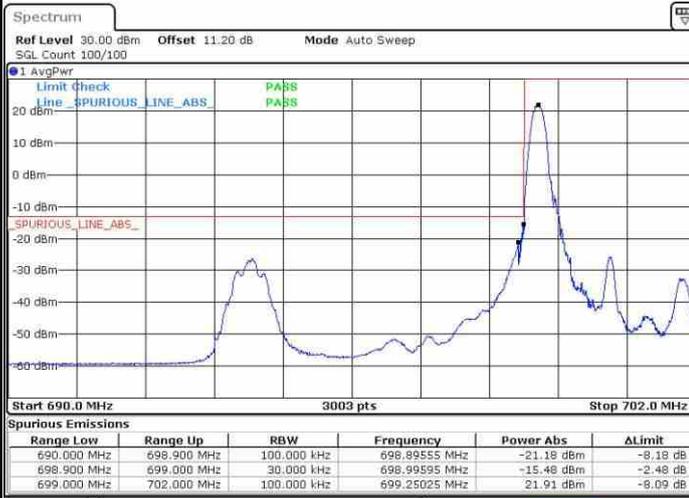


Date: 23.FEB.2016 15:49:38



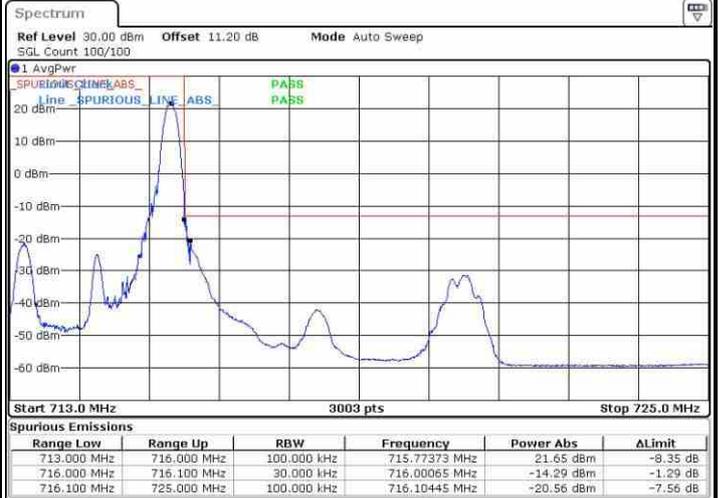
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 23.FEB.2016 14:06:50

Highest Band Edge / 1 RB



Date: 23.FEB.2016 14:42:16

Lowest Band Edge / Full RB



Date: 23.FEB.2016 14:00:42

Highest Band Edge / Full RB

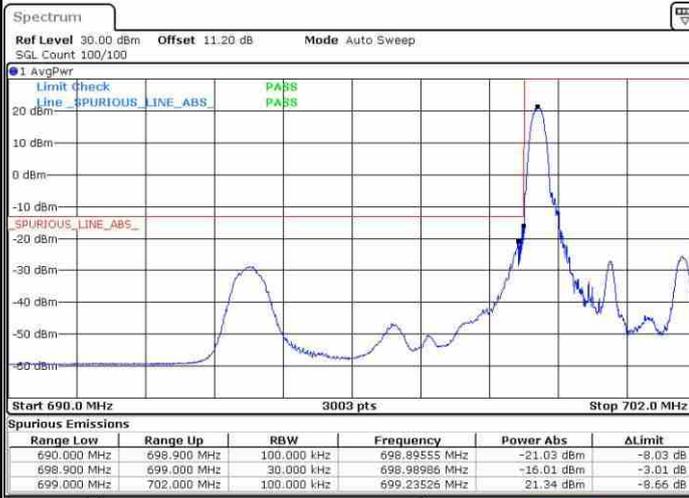


Date: 23.FEB.2016 14:36:09



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 23.FEB.2016 14:04:47

Highest Band Edge / 1 RB



Date: 23.FEB.2016 14:40:14

Lowest Band Edge / Full RB



Date: 23.FEB.2016 14:02:45

Highest Band Edge / Full RB

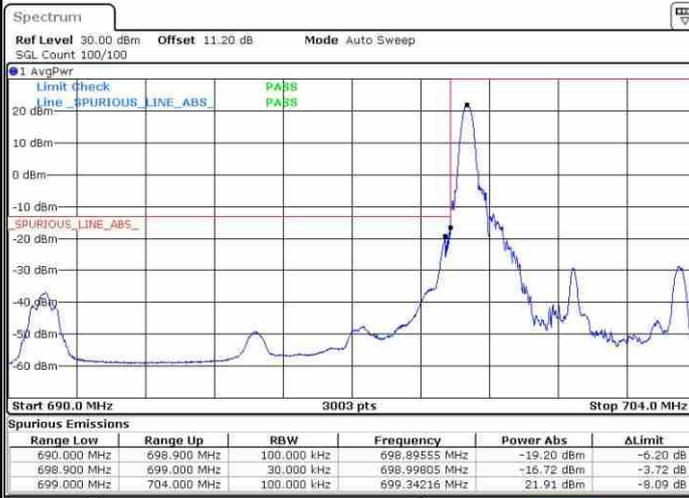


Date: 23.FEB.2016 14:38:12



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 23 FEB 2016 14:52:55

Highest Band Edge / 1 RB



Date: 23 FEB 2016 15:04:03

Lowest Band Edge / Full RB



Date: 23 FEB 2016 14:46:49

Highest Band Edge / Full RB

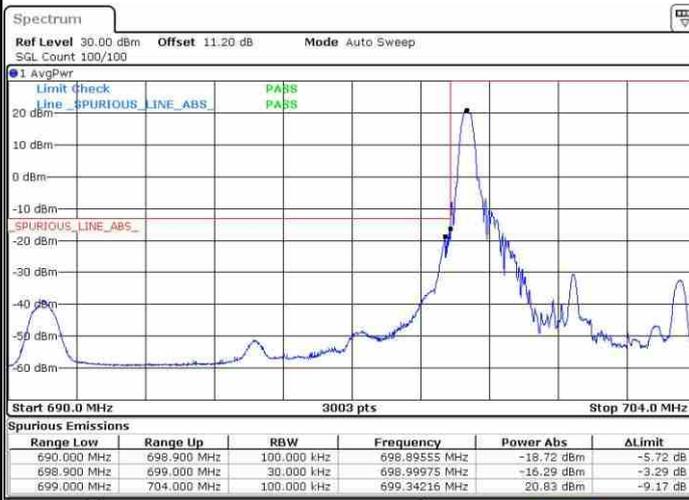


Date: 23 FEB 2016 14:59:59



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



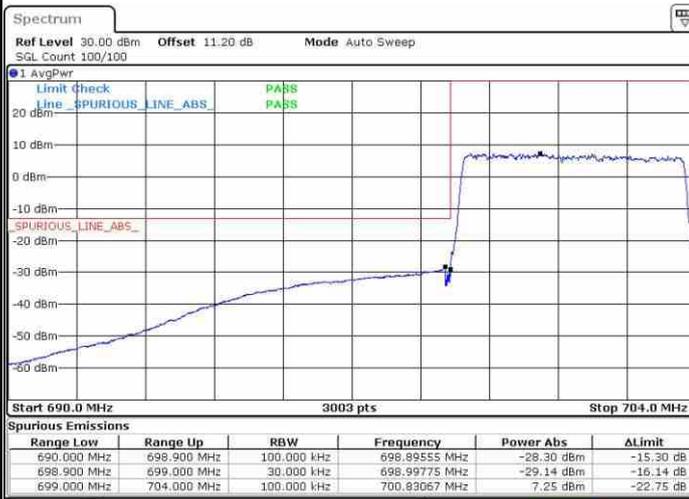
Date: 23.FEB.2016 14:50:53

Highest Band Edge / 1 RB



Date: 23.FEB.2016 15:06:05

Lowest Band Edge / Full RB



Date: 23.FEB.2016 14:48:51

Highest Band Edge / Full RB

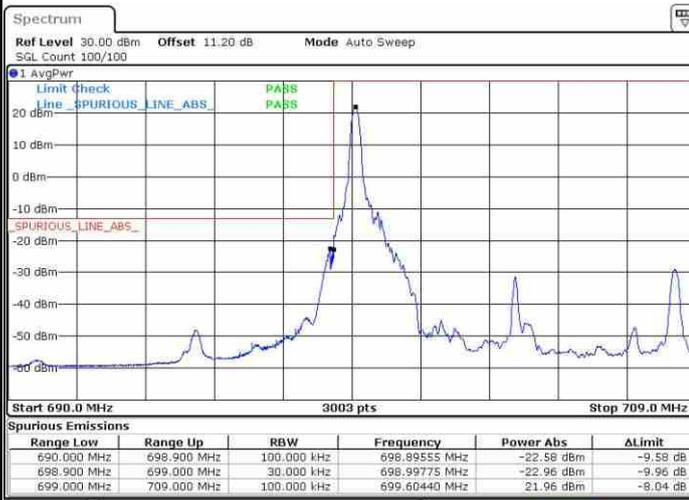


Date: 23.FEB.2016 15:02:01



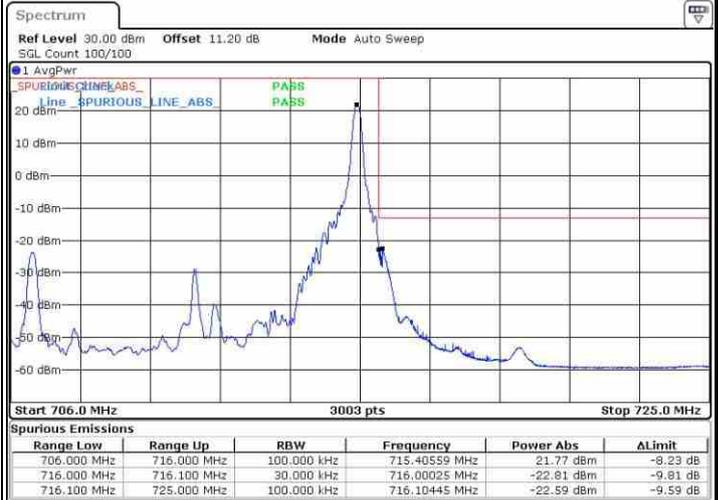
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



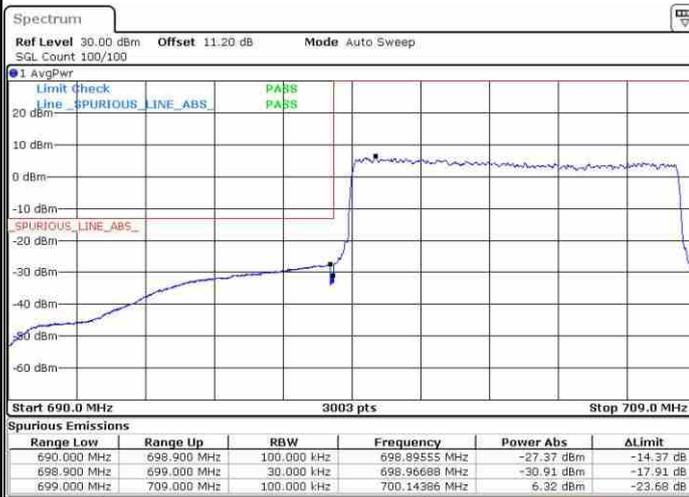
Date: 23.FEB.2016 15:16:45

Highest Band Edge / 1 RB



Date: 23.FEB.2016 15:29:54

Lowest Band Edge / Full RB



Date: 23.FEB.2016 15:10:38

Highest Band Edge / Full RB

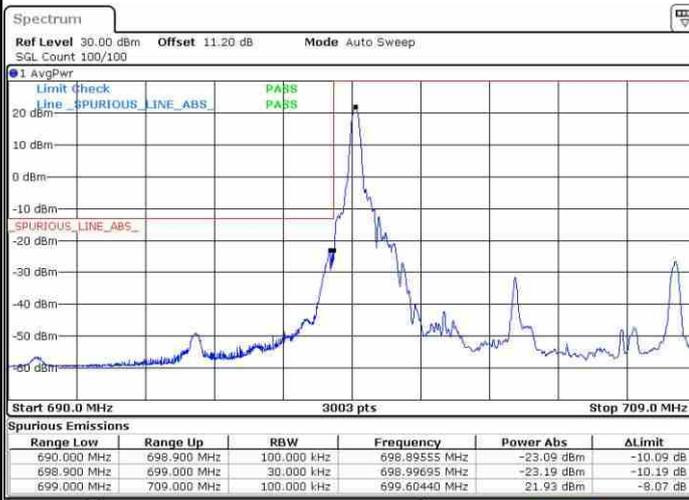


Date: 23.FEB.2016 15:23:47



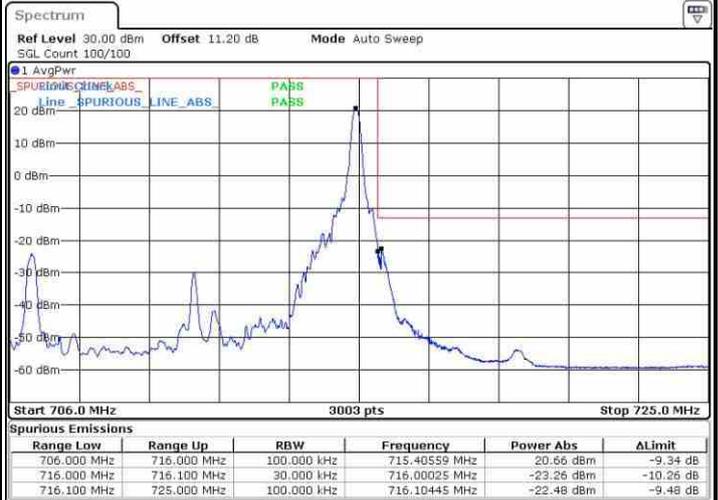
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 23.FEB.2016 15:14:42

Highest Band Edge / 1 RB



Date: 23.FEB.2016 15:27:52

Lowest Band Edge / Full RB



Date: 23.FEB.2016 15:12:40

Highest Band Edge / Full RB



Date: 23.FEB.2016 15:25:49



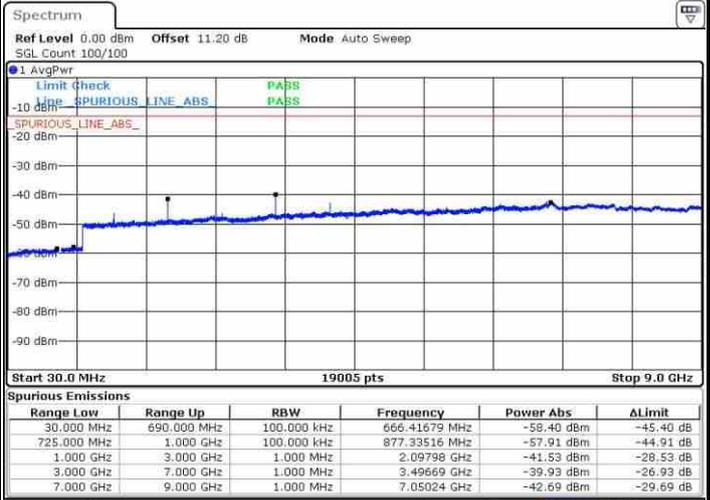
Conducted Spurious Emission



LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

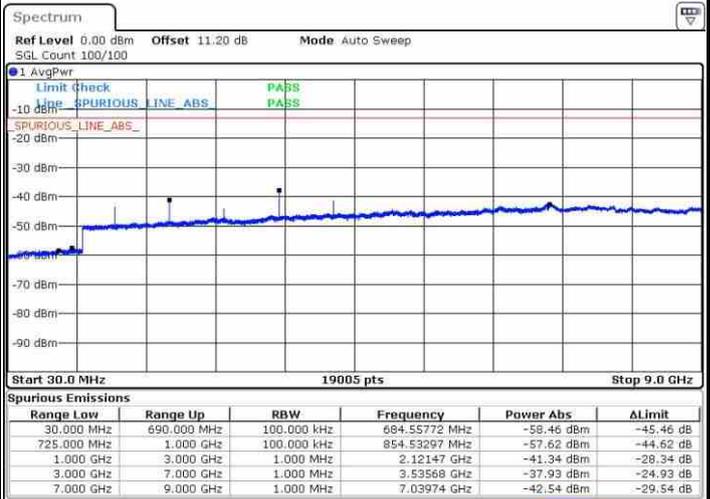
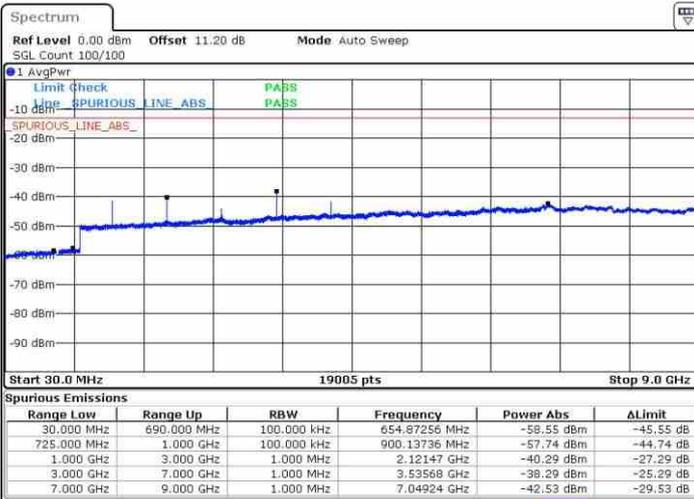


Date: 23 FEB 2016 15:41:28

Date: 23 FEB 2016 15:42:22

Middle Channel / QPSK

Middle Channel / 16QAM



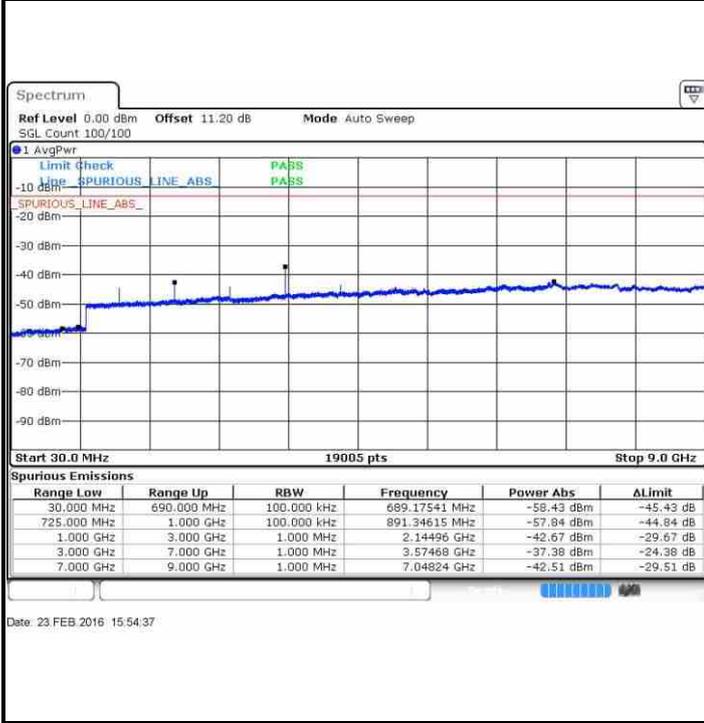
Date: 23 FEB 2016 15:44:52

Date: 23 FEB 2016 15:43:58

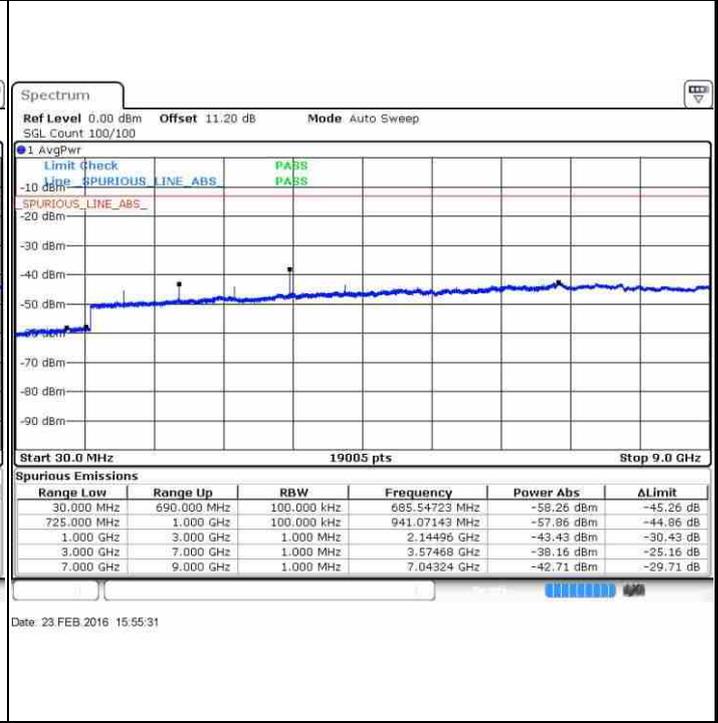


LTE Band 12 / 1.4MHz

Highest Channel / QPSK

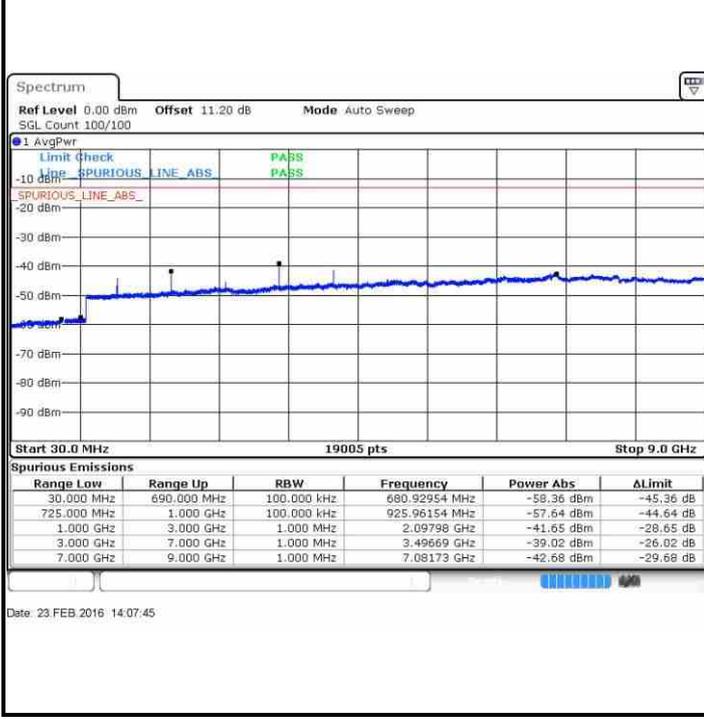


Highest Channel / 16QAM

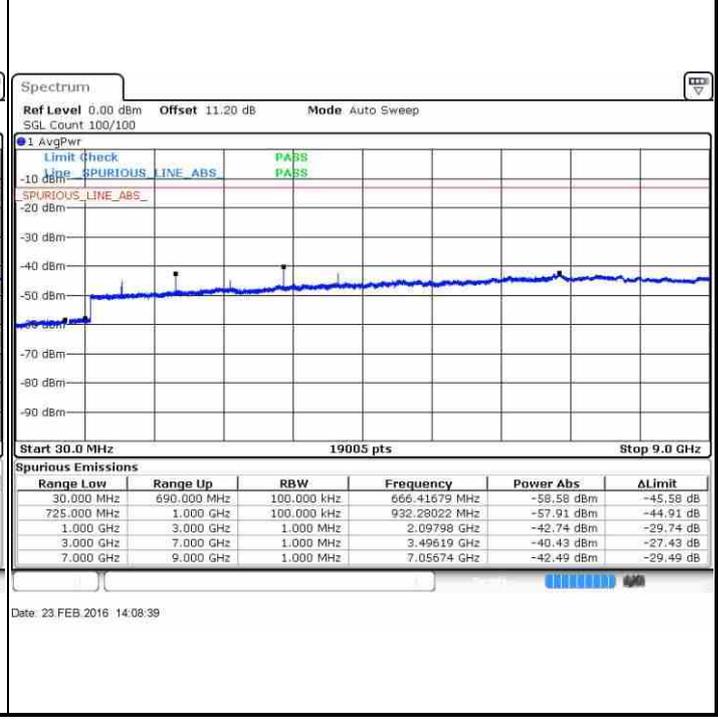


LTE Band 12 / 3MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

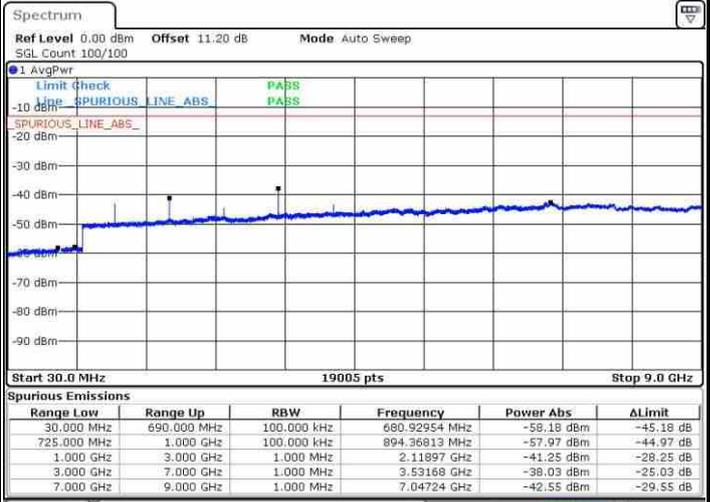
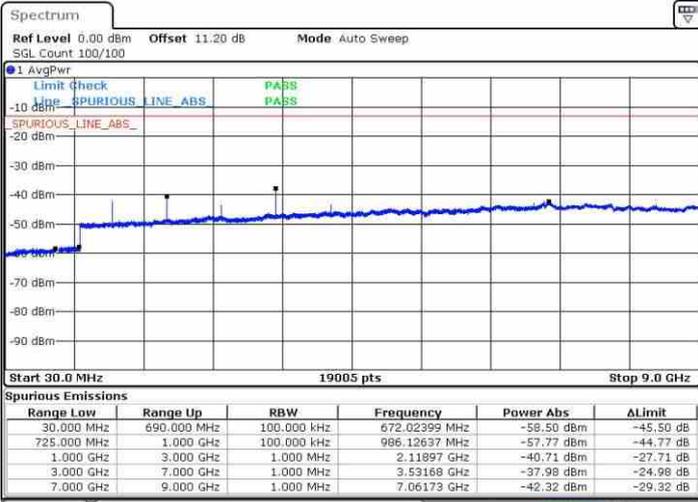




LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

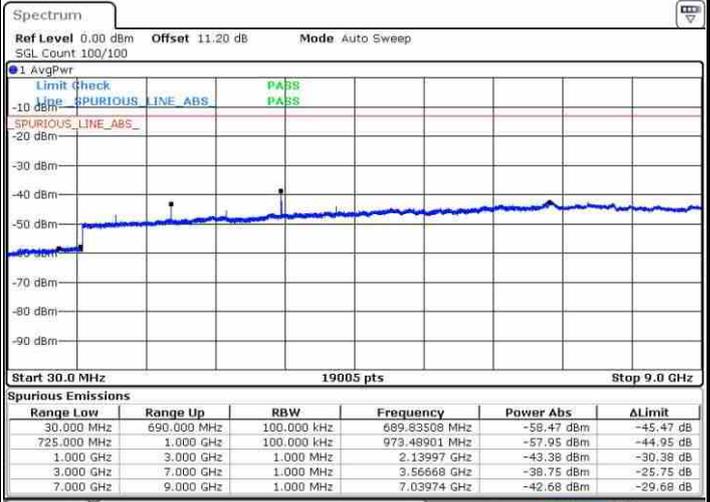


Date: 23 FEB 2016 14:11:10

Date: 23 FEB 2016 14:10:16

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23 FEB 2016 14:43:11

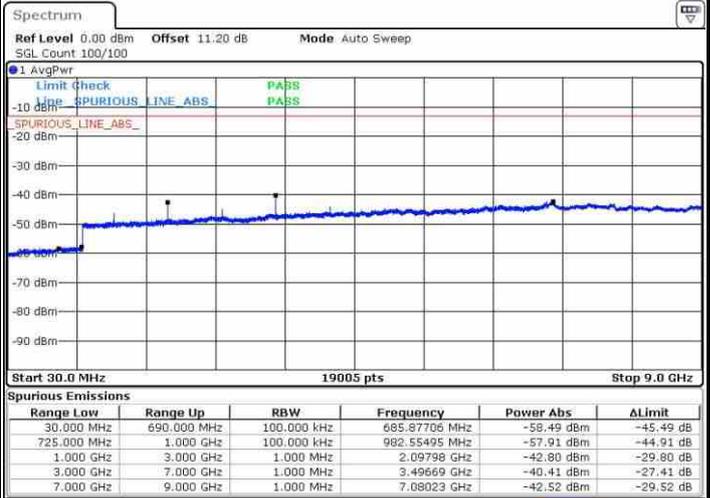
Date: 23 FEB 2016 14:44:05



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

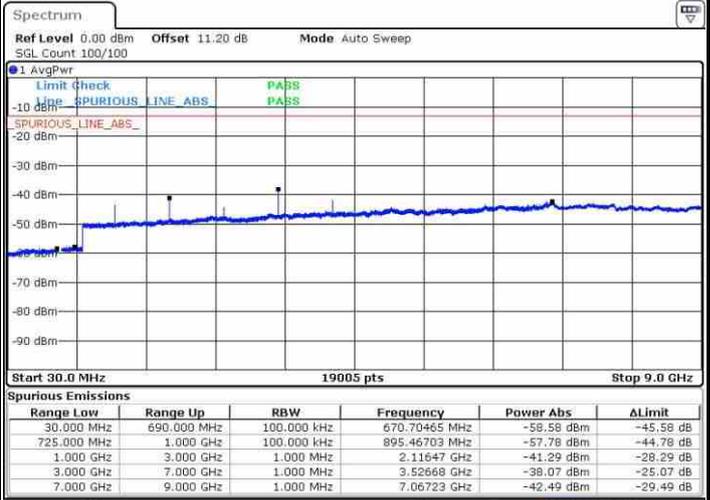
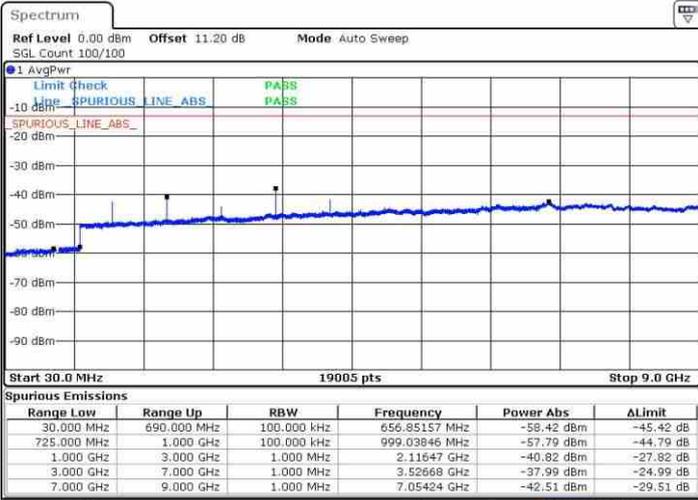


Date: 23 FEB 2016 14:53:50

Date: 23 FEB 2016 14:54:44

Middle Channel / QPSK

Middle Channel / 16QAM



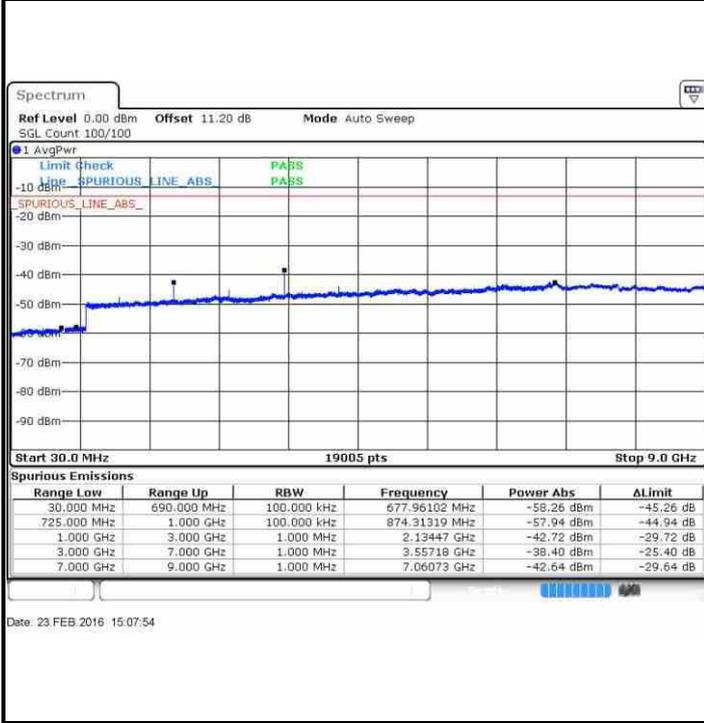
Date: 23 FEB 2016 14:57:15

Date: 23 FEB 2016 14:56:21

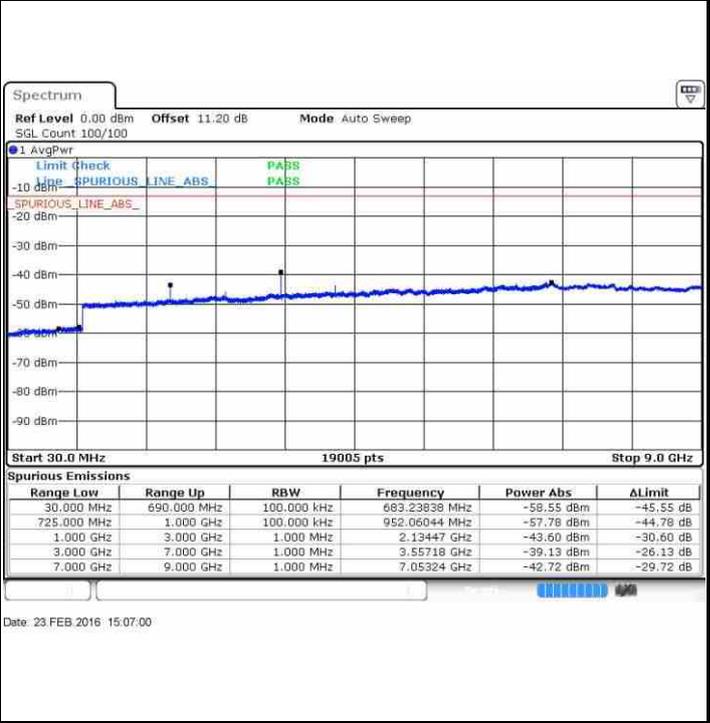


LTE Band 12 / 5MHz

Highest Channel / QPSK



Highest Channel / 16QAM

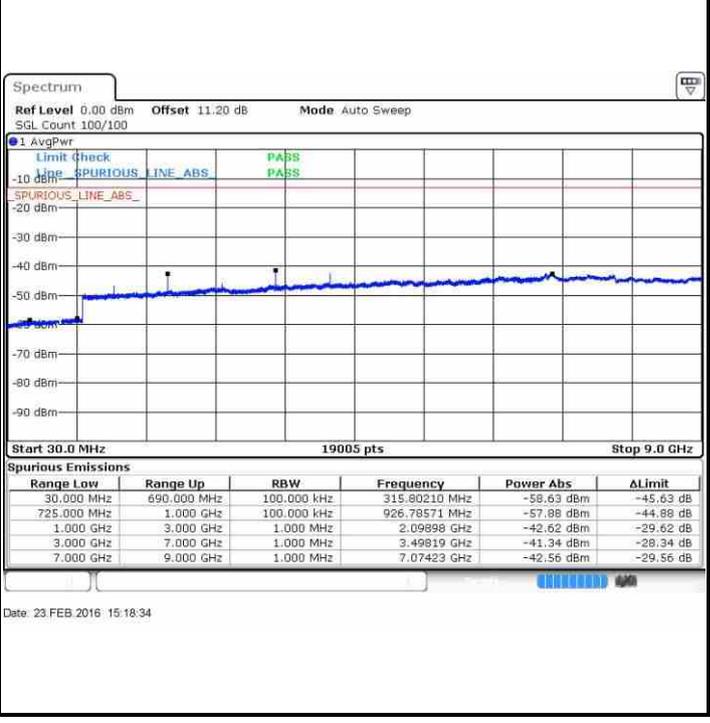


LTE Band 12 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

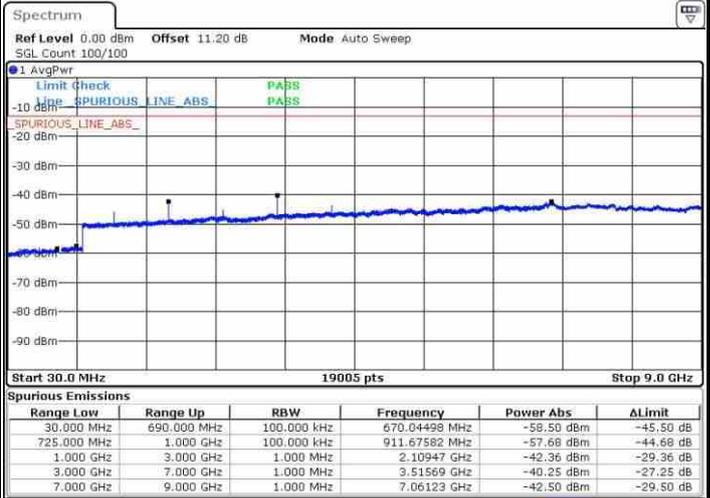
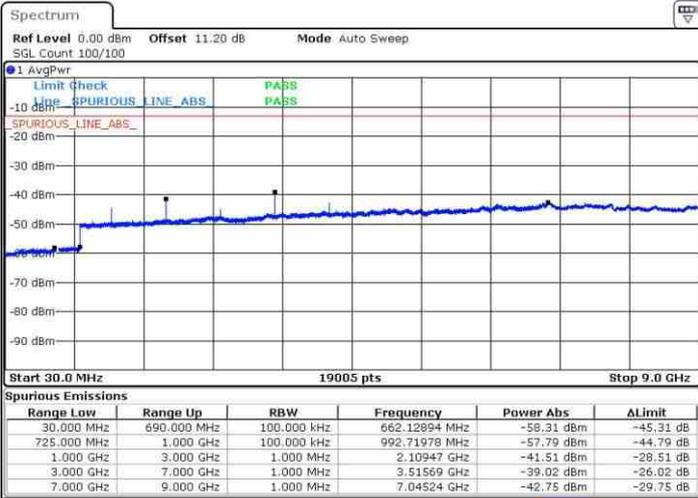




LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

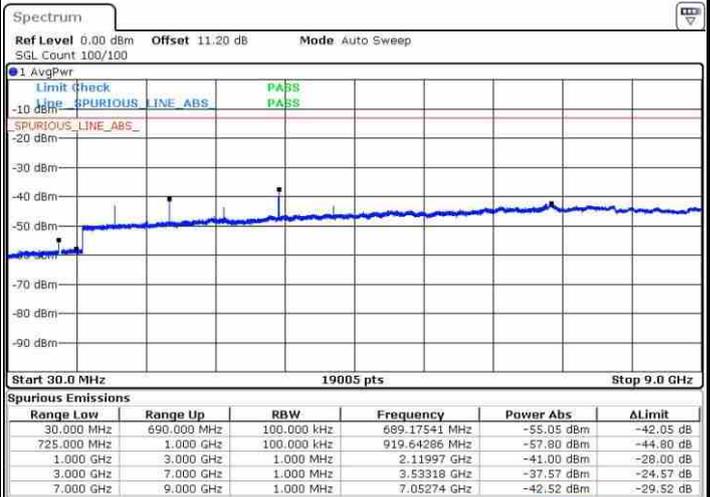
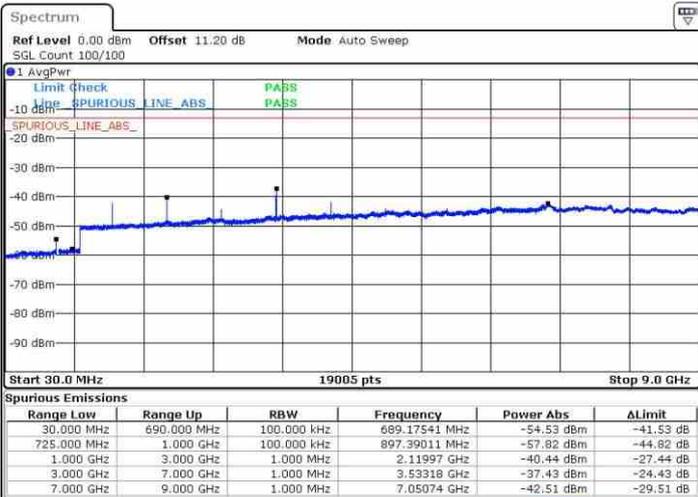


Date: 23 FEB 2016 15:21:04

Date: 23 FEB 2016 15:20:10

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23 FEB 2016 15:30:49

Date: 23 FEB 2016 15:31:43



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	0.0051	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0064	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.8V. ; 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 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	4.32	5.88	5.54	6.7	PASS
Middle CH	4.23	5.74	5.94	6.55	
Highest CH	4.49	5.68	5.62	6.61	



LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 20 FEB 2016 01:20:53

Lowest Channel / Full RB



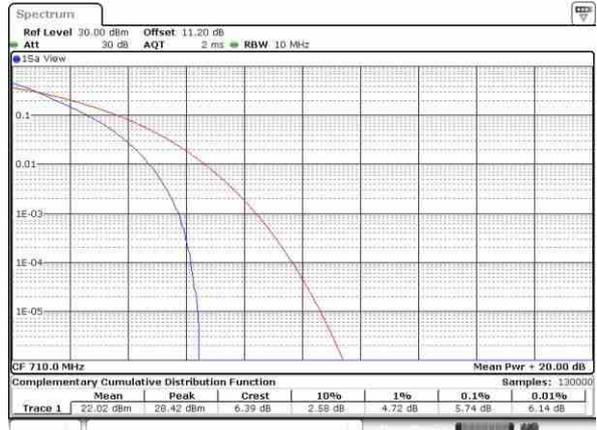
Date: 20 FEB 2016 01:21:04

Middle Channel / 1RB



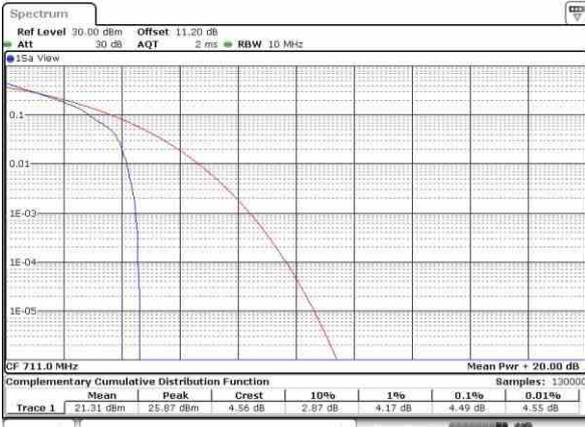
Date: 20 FEB 2016 01:21:20

Middle Channel / Full RB



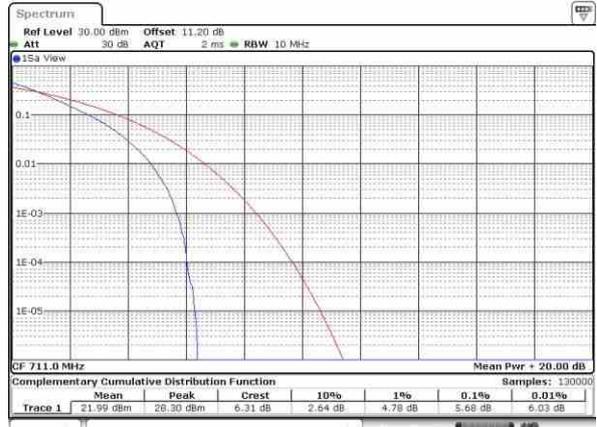
Date: 20 FEB 2016 01:21:41

Highest Channel / 1RB



Date: 20 FEB 2016 01:21:51

Highest Channel / Full RB



Date: 20 FEB 2016 01:22:17