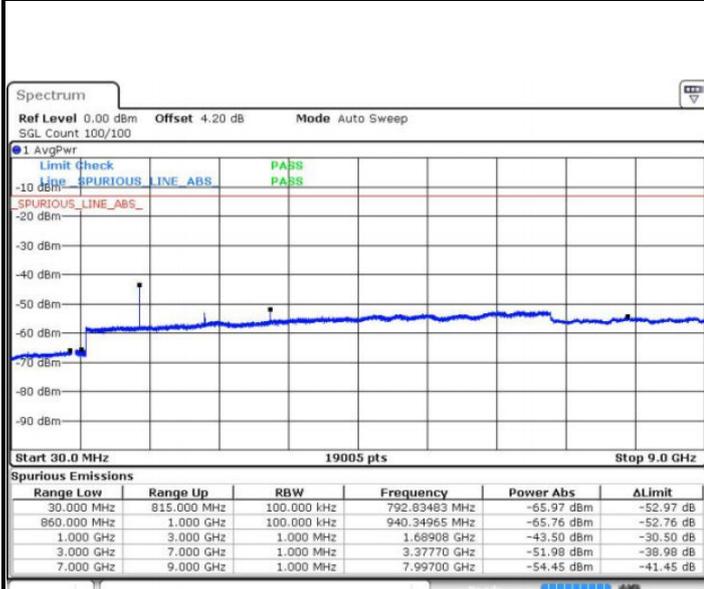




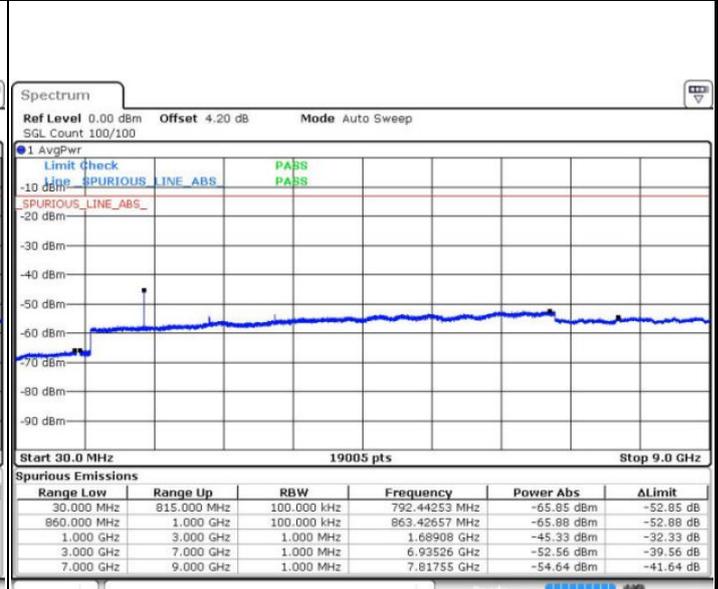
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 18 JAN 2016 20:01:47

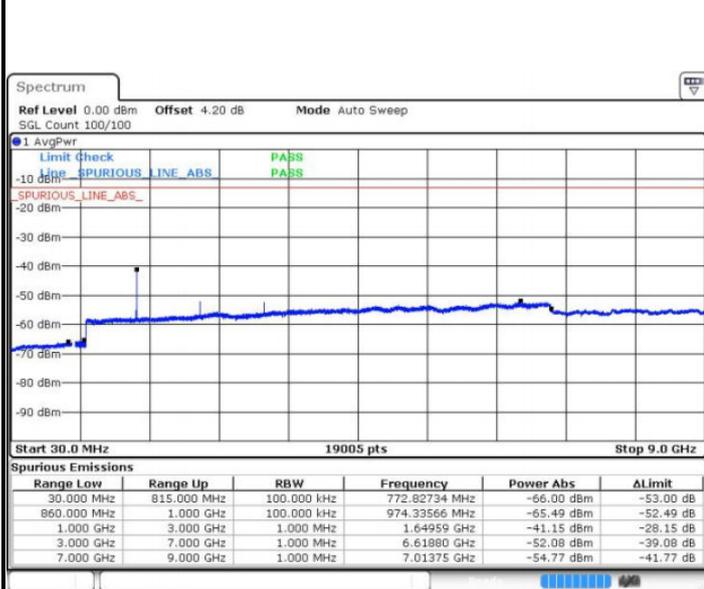
Highest Channel / 16QAM



Date: 18 JAN 2016 20:02:40

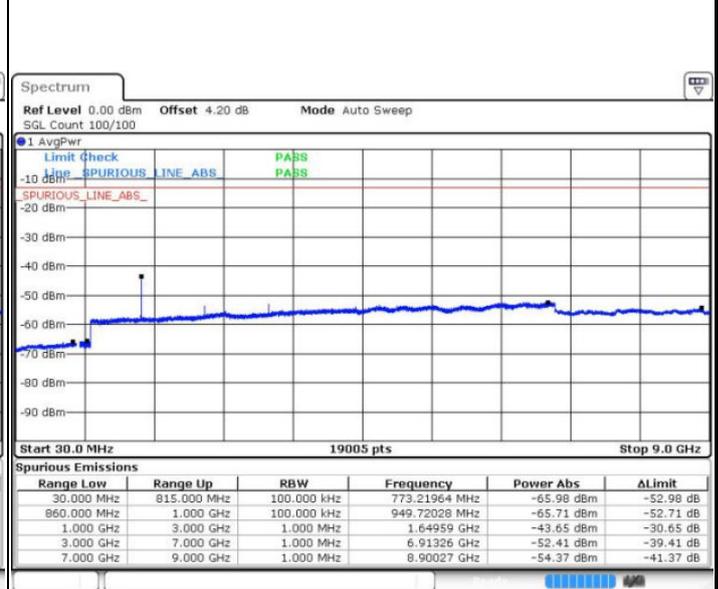
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 18 JAN 2016 20:12:22

Lowest Channel / 16QAM



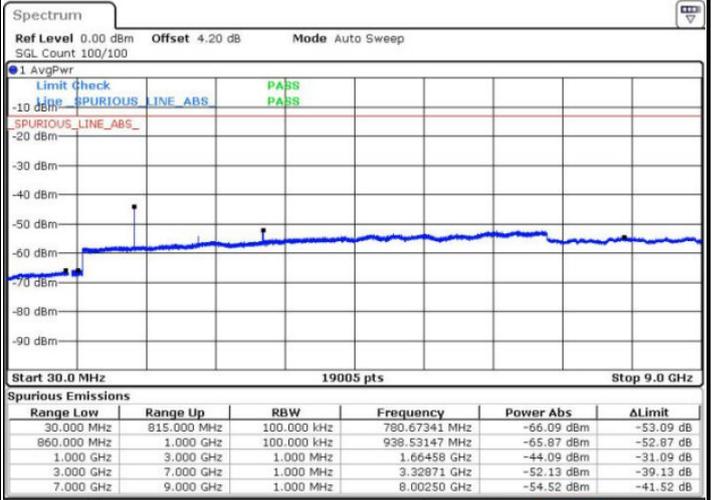
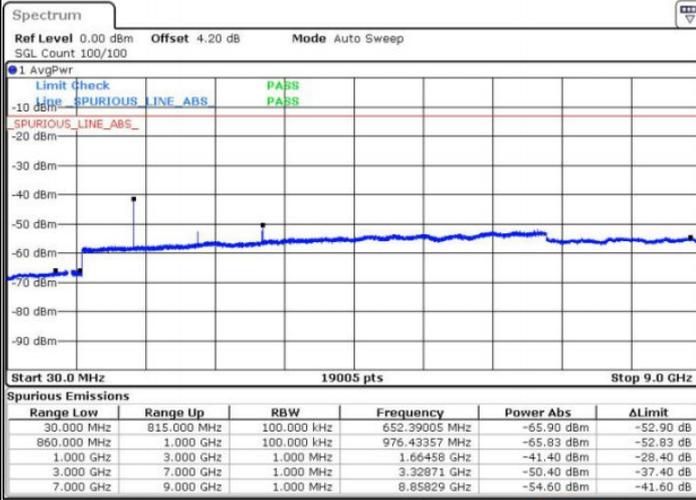
Date: 18 JAN 2016 20:13:16



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

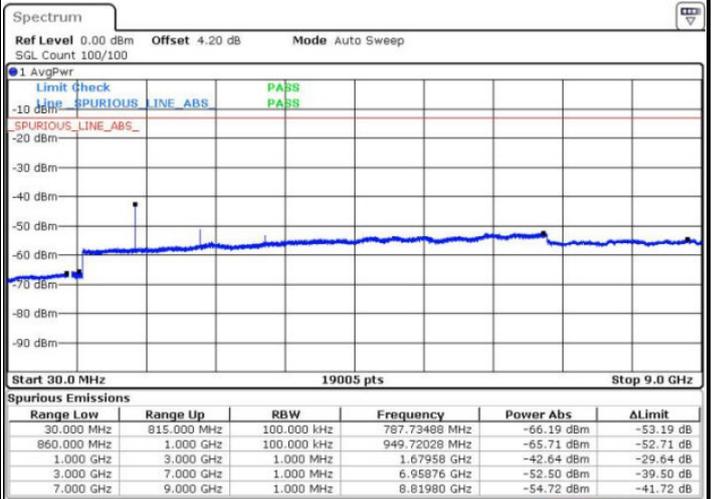
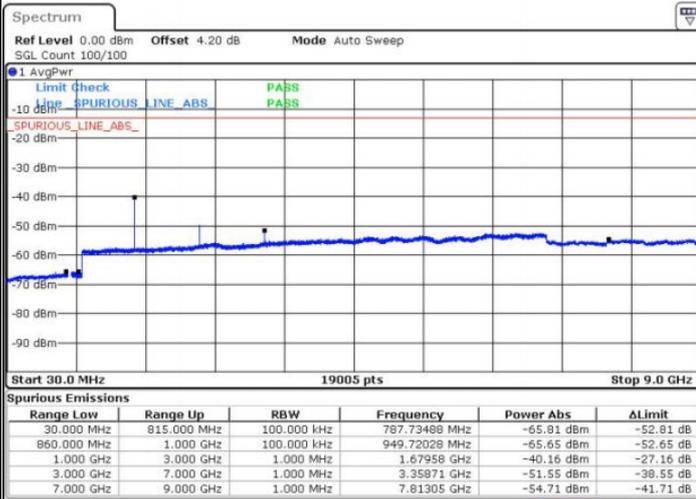


Date: 18 JAN 2016 20:14:51

Date: 18 JAN 2016 20:15:44

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18 JAN 2016 20:25:27

Date: 18 JAN 2016 20:26:20



**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0067	
-20	Normal Voltage	0.0078	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0008	

**Note:** Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V



## LTE Band 12

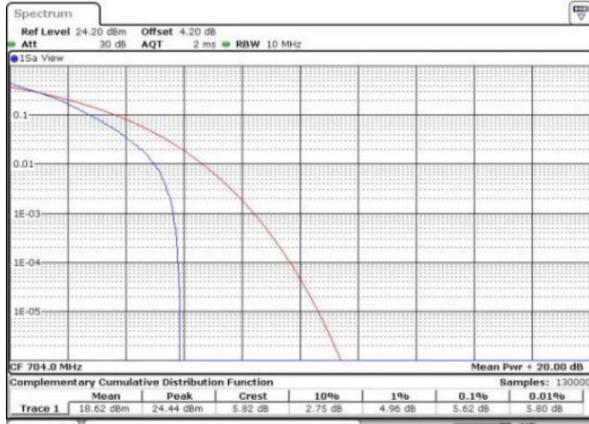
### Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.62	5.22	6.81	6.32	<b>PASS</b>
Middle CH	5.88	5.74	7.13	6.38	
Highest CH	5.22	5.59	6.67	6.35	



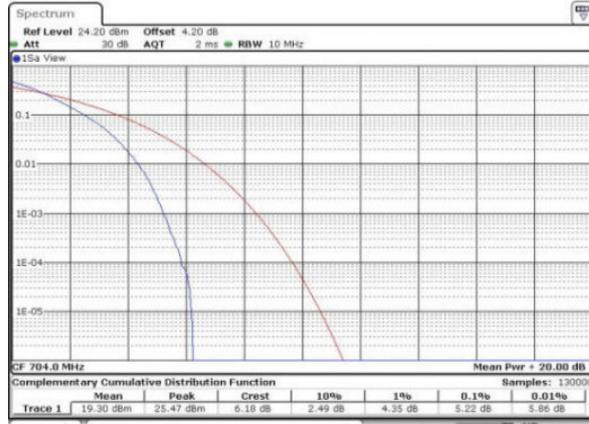
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



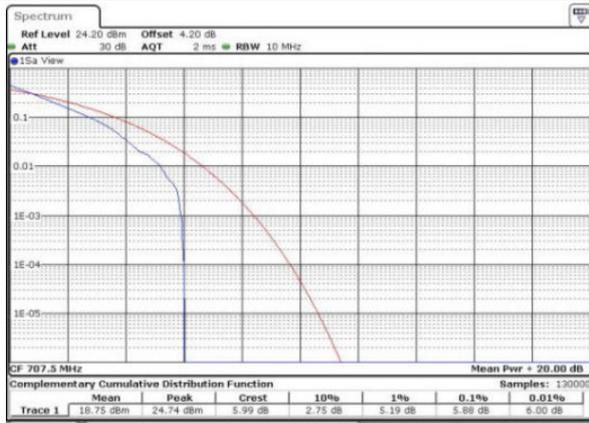
Date: 19 JAN 2016 23:33:45

Lowest Channel / Full RB



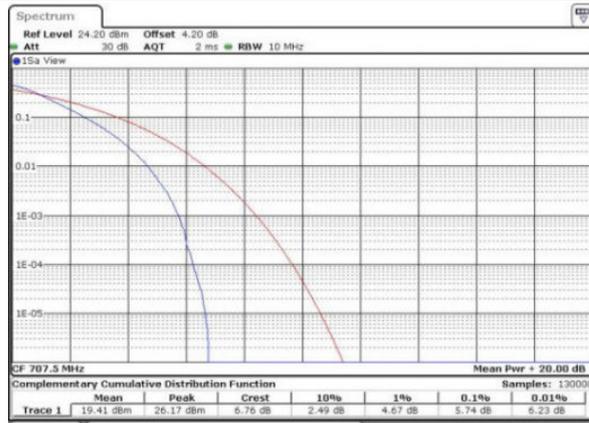
Date: 19 JAN 2016 23:33:59

Middle Channel / 1RB



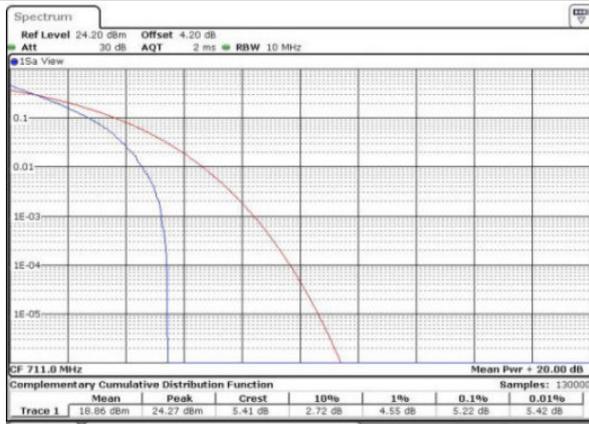
Date: 19 JAN 2016 23:34:59

Middle Channel / Full RB



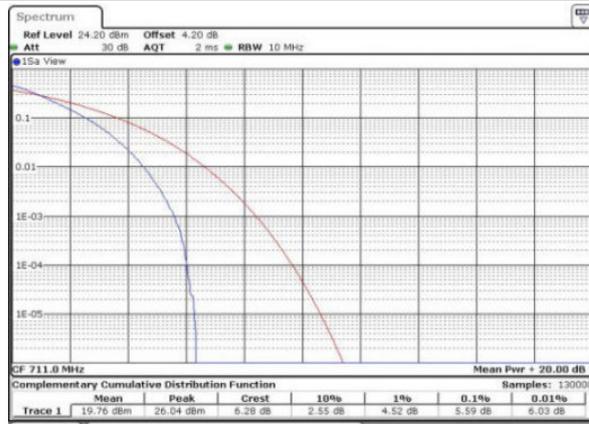
Date: 19 JAN 2016 23:35:16

Highest Channel / 1RB



Date: 19 JAN 2016 23:36:01

Highest Channel / Full RB

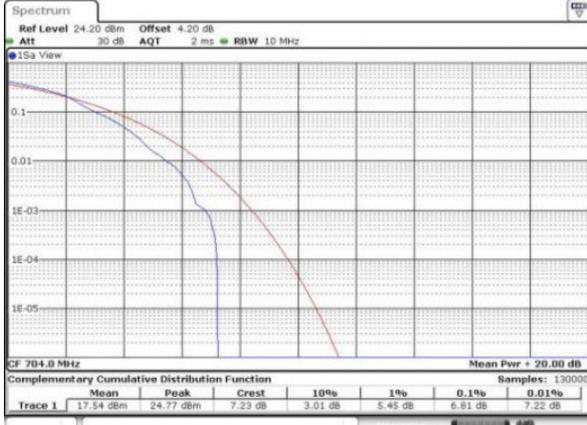


Date: 19 JAN 2016 23:36:15



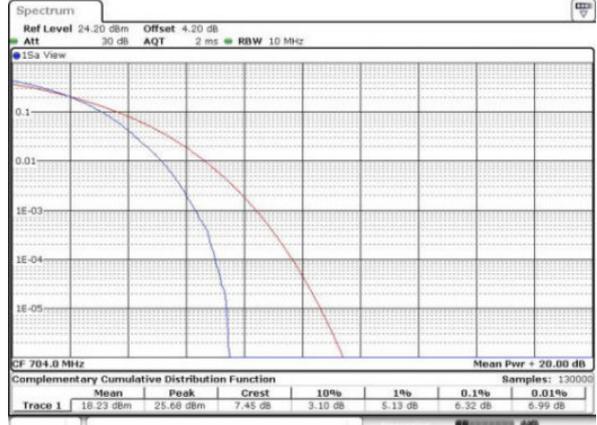
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



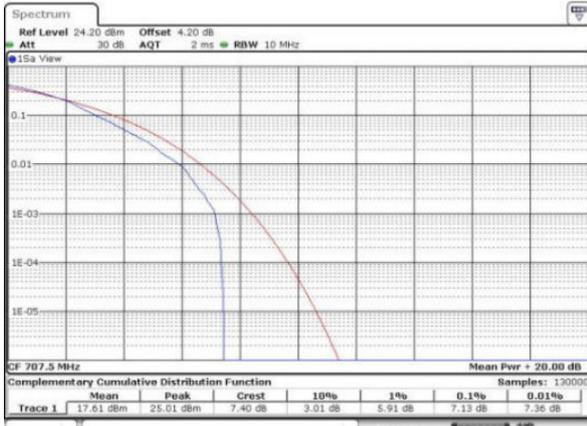
Date: 19 JAN 2016 23:37:55

Lowest Channel / Full RB



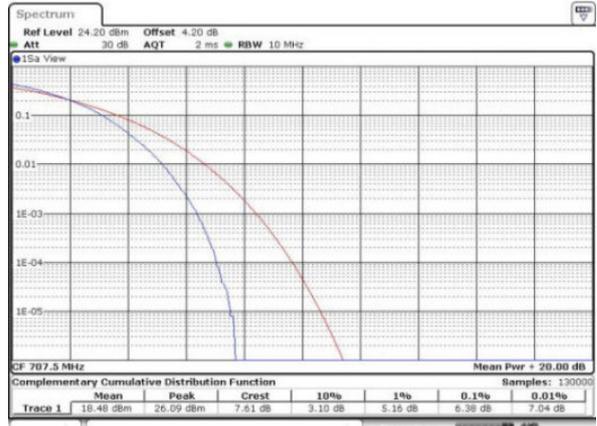
Date: 19 JAN 2016 23:34:15

Middle Channel / 1RB



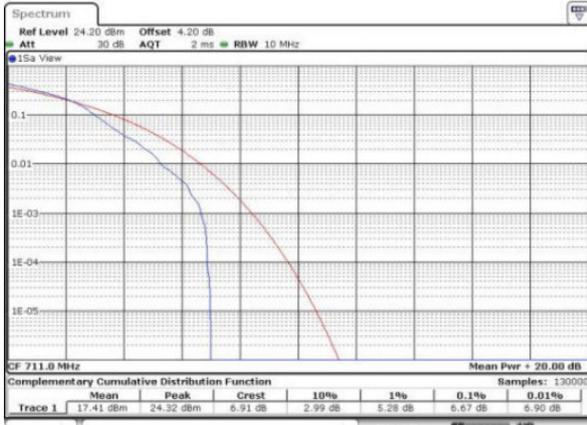
Date: 19 JAN 2016 23:34:33

Middle Channel / Full RB



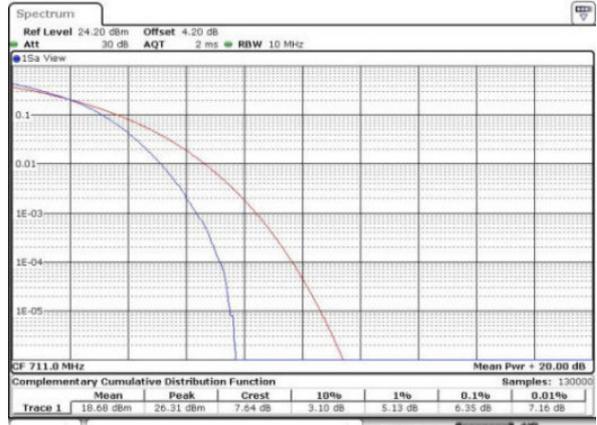
Date: 19 JAN 2016 23:35:30

Highest Channel / 1RB



Date: 19 JAN 2016 23:35:47

Highest Channel / Full RB



Date: 19 JAN 2016 23:36:29



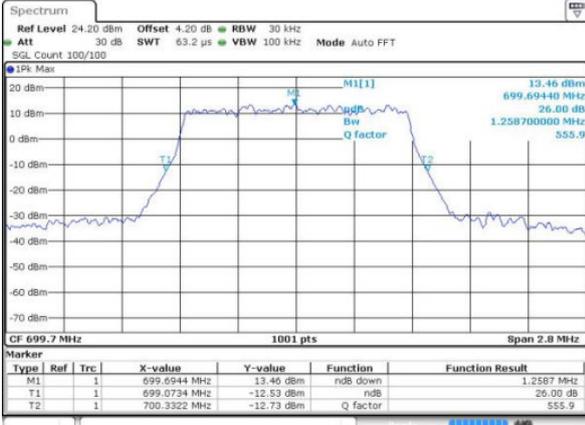
**26dB Bandwidth**

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	1.26	1.27	3.01	3.03	4.88	4.93	9.81	9.81	-	-	-	-
Middle CH	1.28	1.26	3.02	2.98	4.88	4.79	9.81	9.79	-	-	-	-
Highest CH	1.28	1.27	3	3	4.98	4.91	9.93	9.91	-	-	-	-



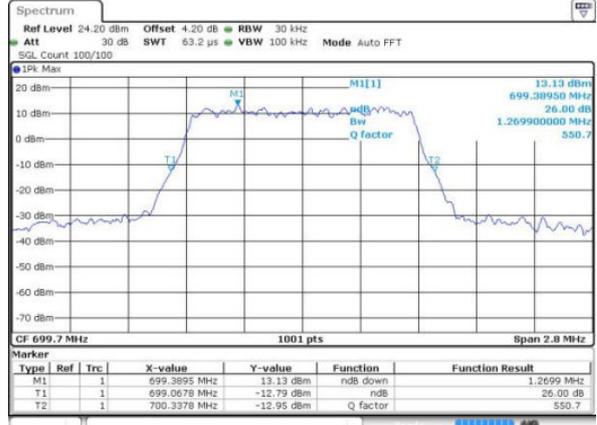
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



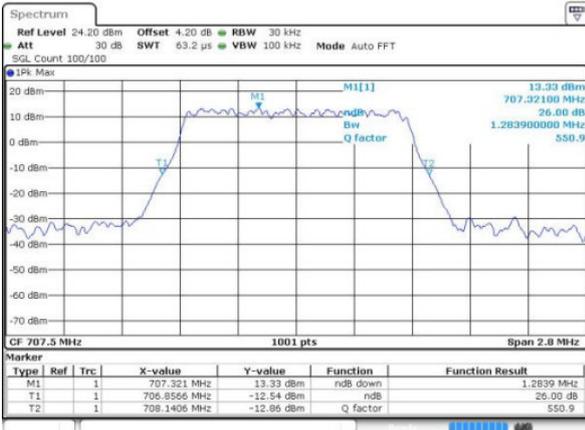
Date: 19 JAN 2016 21:58:16

Lowest Channel / 1.4MHz / 16QAM



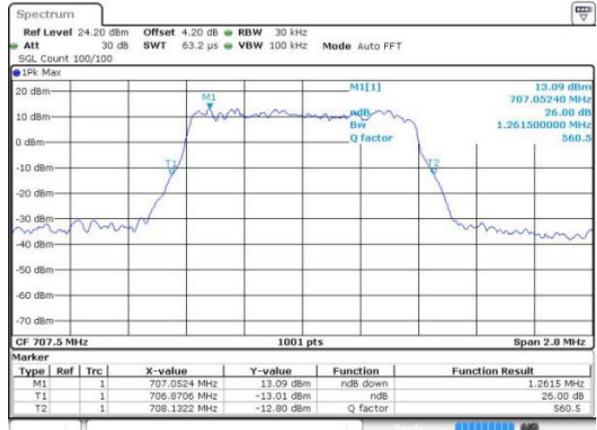
Date: 19 JAN 2016 21:58:26

Middle Channel / 1.4MHz / QPSK



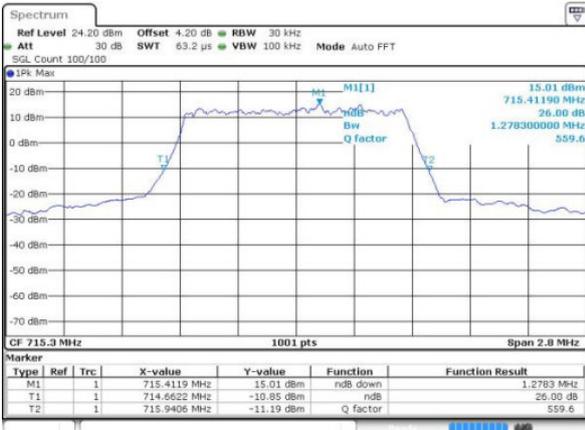
Date: 19 JAN 2016 21:58:48

Middle Channel / 1.4MHz / 16QAM



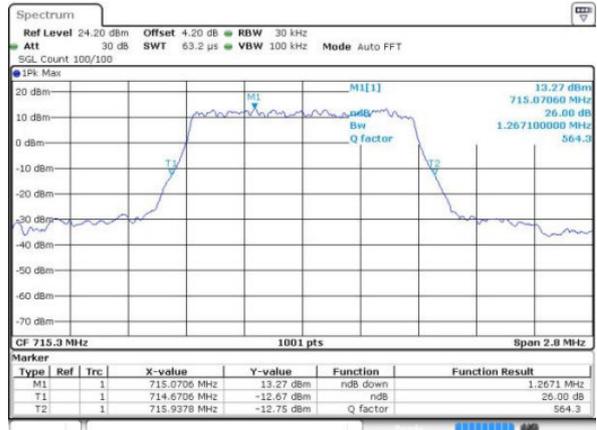
Date: 19 JAN 2016 21:58:37

Highest Channel / 1.4MHz / QPSK



Date: 19 JAN 2016 21:58:59

Highest Channel / 1.4MHz / 16QAM

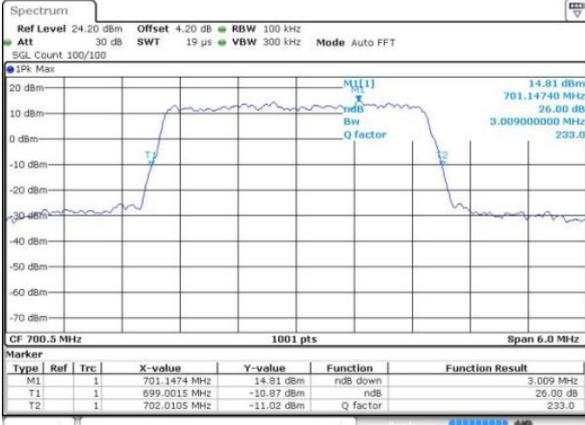


Date: 19 JAN 2016 21:59:09



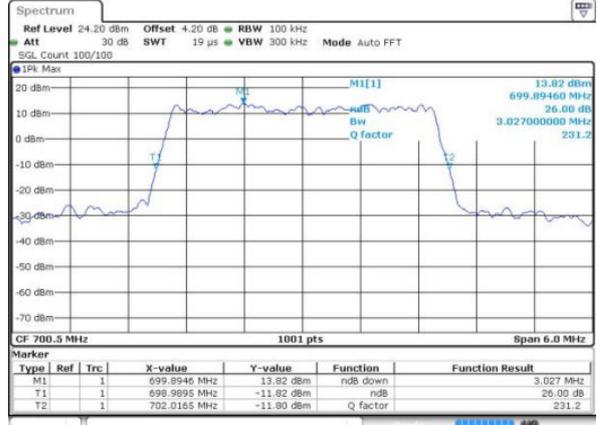
LTE Band 12

Lowest Channel / 3MHz / QPSK



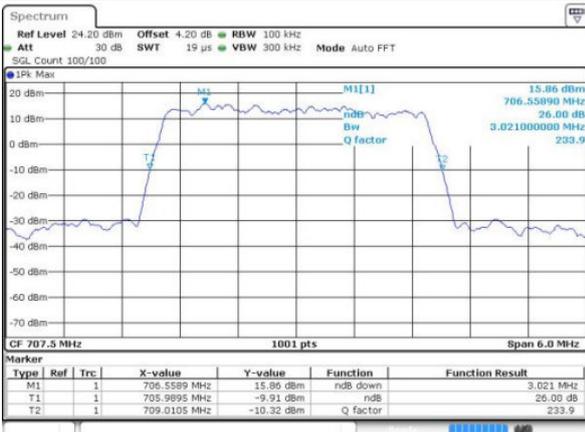
Date: 19 JAN 2016 22:22:04

Lowest Channel / 3MHz / 16QAM



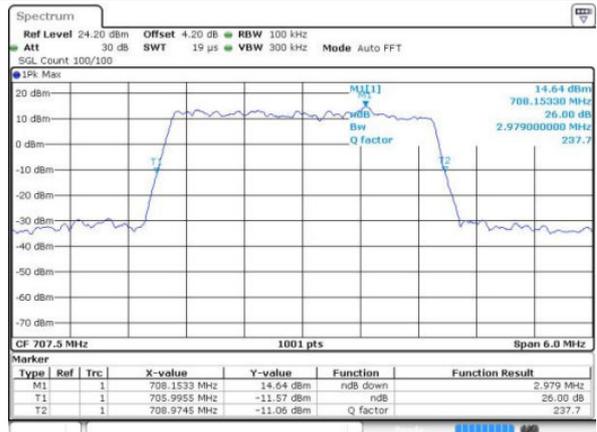
Date: 19 JAN 2016 22:22:15

Middle Channel / 3MHz / QPSK



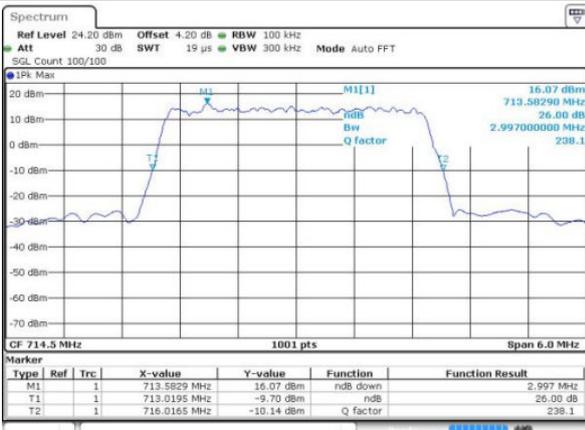
Date: 19 JAN 2016 22:22:36

Middle Channel / 3MHz / 16QAM



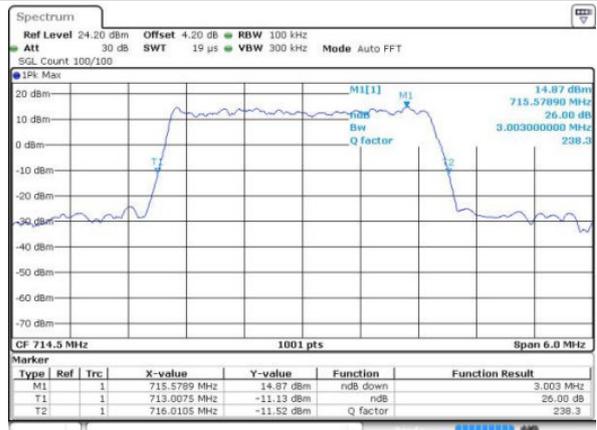
Date: 19 JAN 2016 22:22:25

Highest Channel / 3MHz / QPSK



Date: 19 JAN 2016 22:22:47

Highest Channel / 3MHz / 16QAM

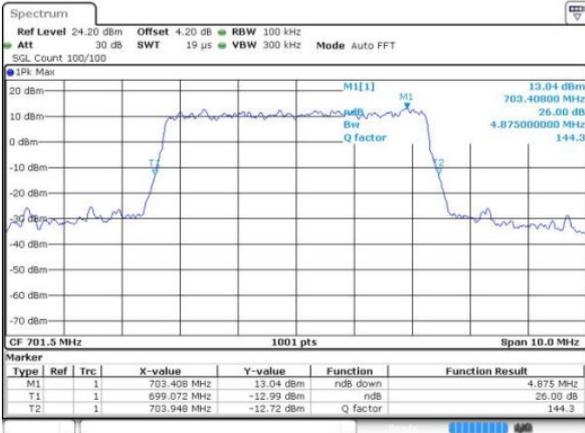


Date: 19 JAN 2016 22:22:57



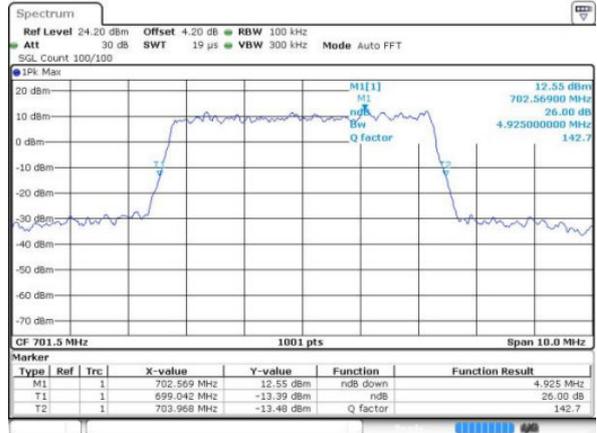
LTE Band 12

Lowest Channel / 5MHz / QPSK



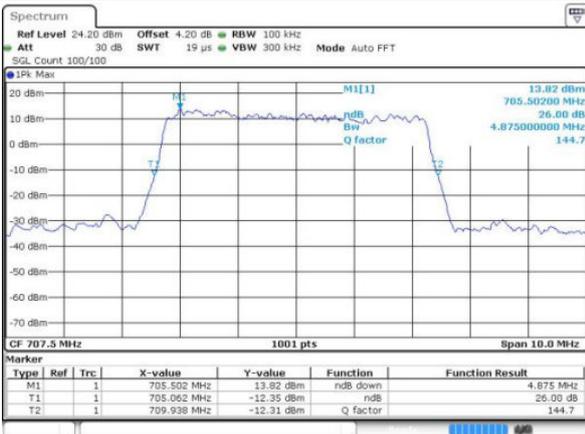
Date: 19 JAN 2016 22:45:52

Lowest Channel / 5MHz / 16QAM



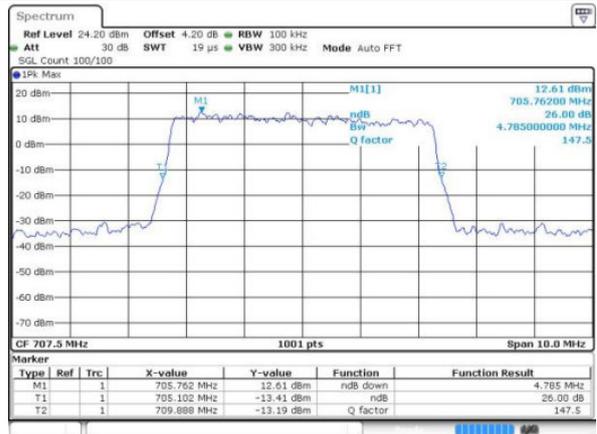
Date: 19 JAN 2016 22:46:03

Middle Channel / 5MHz / QPSK



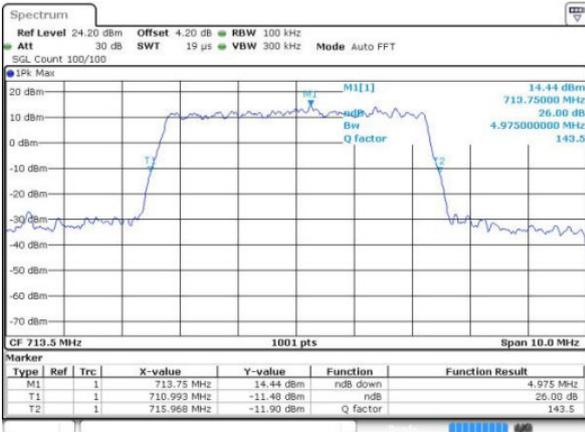
Date: 19 JAN 2016 22:46:24

Middle Channel / 5MHz / 16QAM



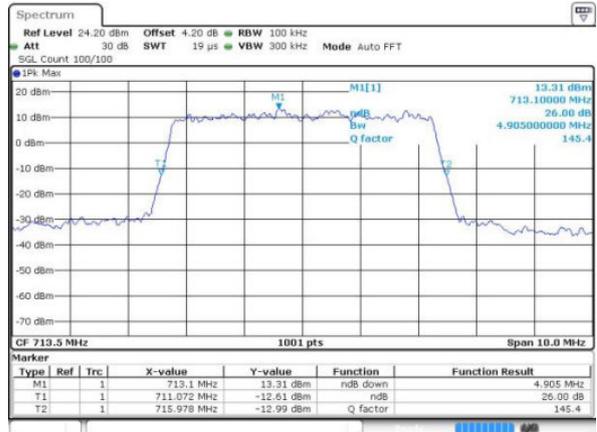
Date: 19 JAN 2016 22:46:13

Highest Channel / 5MHz / QPSK



Date: 19 JAN 2016 22:46:35

Highest Channel / 5MHz / 16QAM

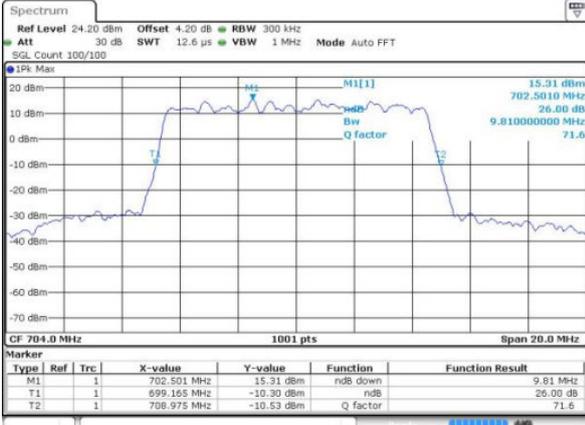


Date: 19 JAN 2016 22:46:45



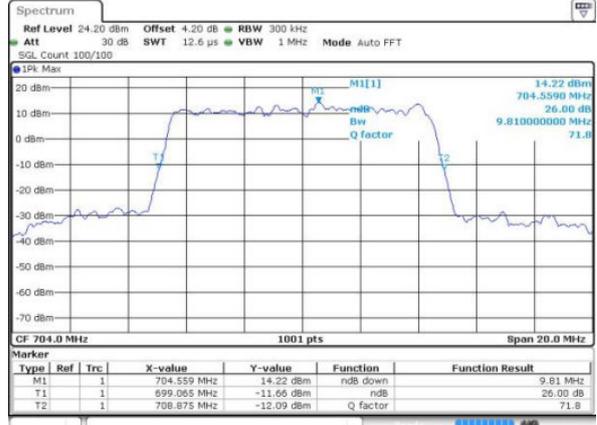
LTE Band 12

Lowest Channel / 10MHz / QPSK



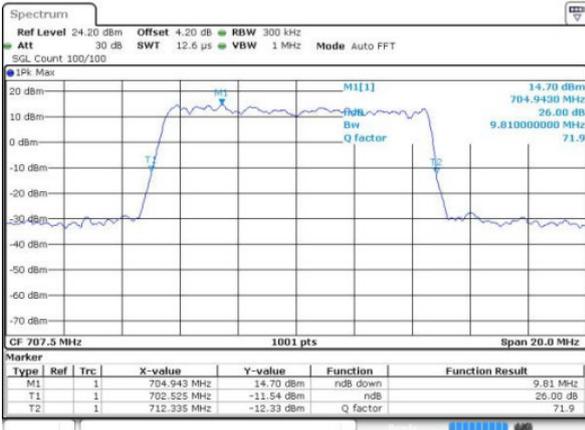
Date: 19 JAN 2016 23:09:40

Lowest Channel / 10MHz / 16QAM



Date: 19 JAN 2016 23:09:51

Middle Channel / 10MHz / QPSK



Date: 19 JAN 2016 23:10:12

Middle Channel / 10MHz / 16QAM



Date: 19 JAN 2016 23:10:02

Highest Channel / 10MHz / QPSK



Date: 19 JAN 2016 23:10:23

Highest Channel / 10MHz / 16QAM



Date: 19 JAN 2016 23:10:34



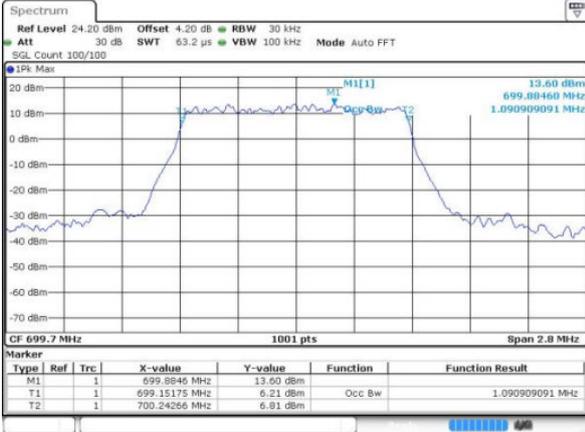
### Occupied Bandwidth

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	1.1	2.73	2.7	4.48	4.48	8.97	8.95	-	-	-	-
Middle CH	1.09	1.09	2.73	2.73	4.49	4.5	9.07	9.01	-	-	-	-
Highest CH	1.09	1.09	2.72	2.73	4.48	4.47	9.09	9.11	-	-	-	-



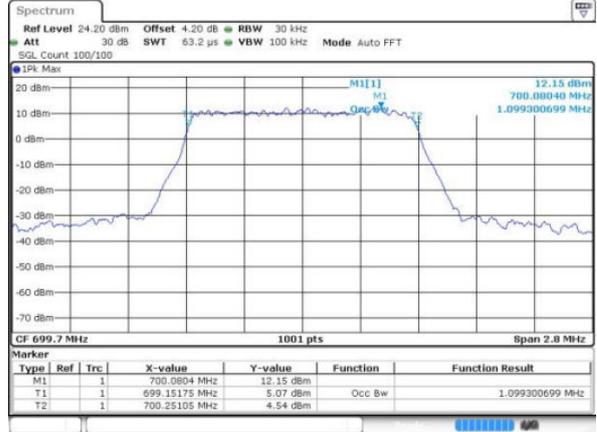
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



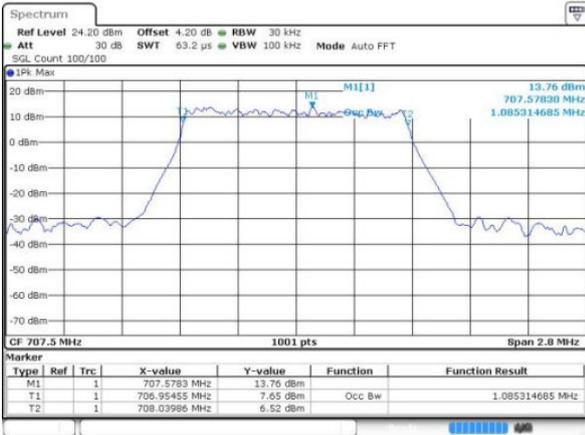
Date: 19 JAN 2016 21:57:11

Lowest Channel / 1.4MHz / 16QAM



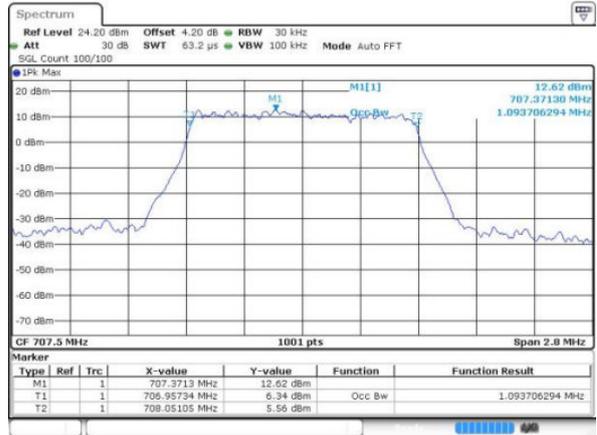
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Middle Channel / 1.4MHz / QPSK



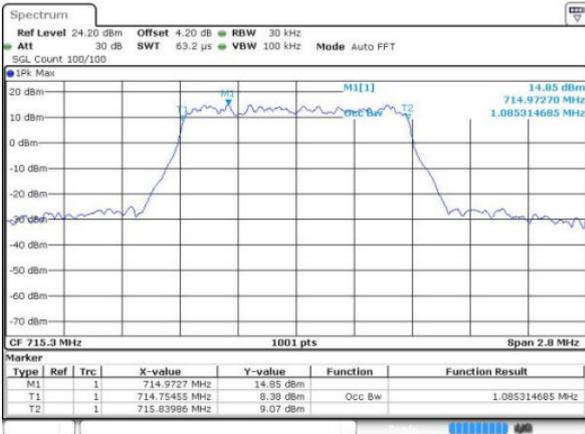
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Middle Channel / 1.4MHz / 16QAM



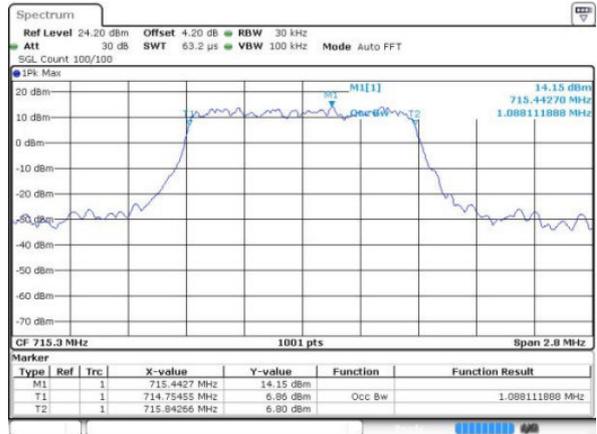
Date: 19 JAN 2016 21:57:43

Highest Channel / 1.4MHz / QPSK



Date: 19 JAN 2016 21:58:05

Highest Channel / 1.4MHz / 16QAM

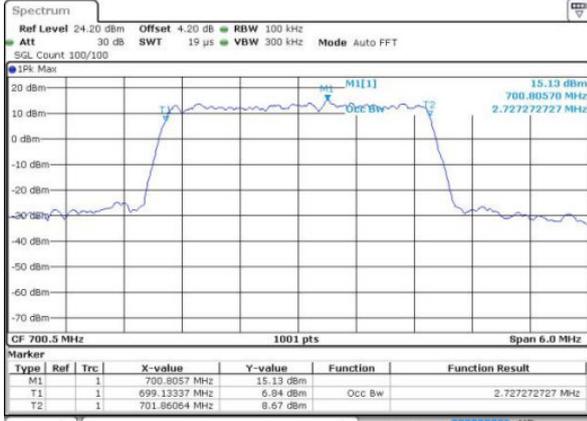


Date: 19 JAN 2016 21:57:54



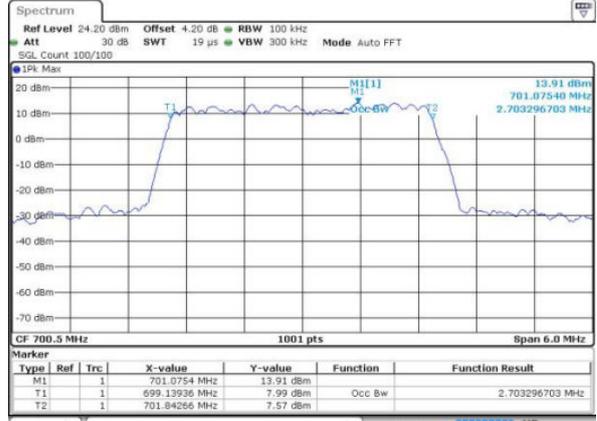
LTE Band 12

Lowest Channel / 3MHz / QPSK



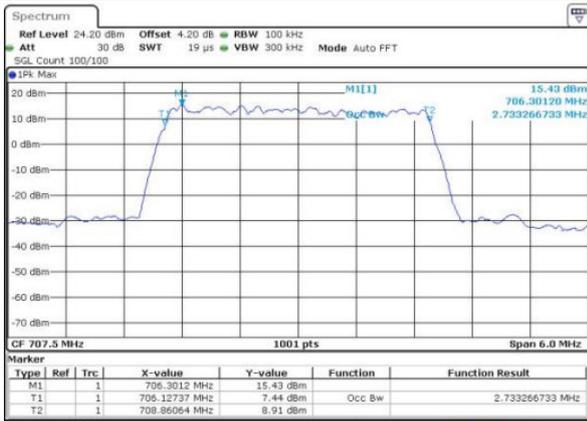
Date: 19 JAN 2016 22:21:00

Lowest Channel / 3MHz / 16QAM



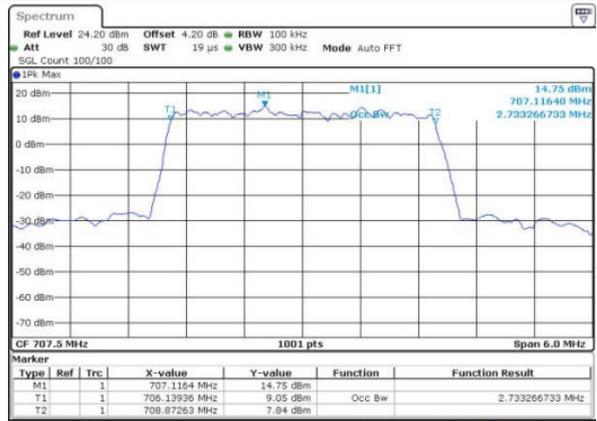
Date: 19 JAN 2016 22:21:11

Middle Channel / 3MHz / QPSK



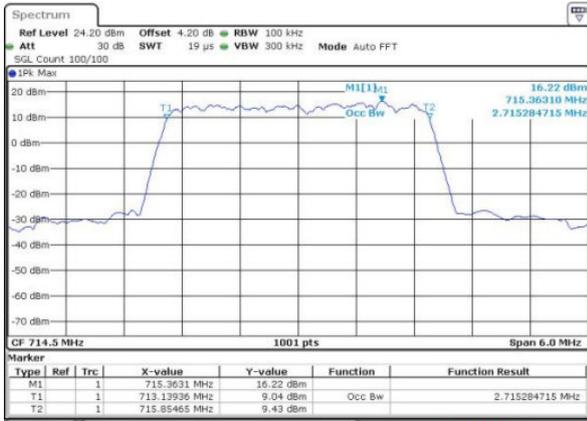
Date: 19 JAN 2016 22:21:32

Middle Channel / 3MHz / 16QAM



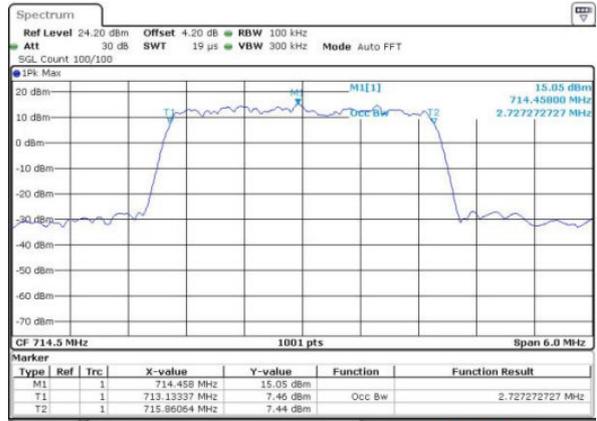
Date: 19 JAN 2016 22:21:21

Highest Channel / 3MHz / QPSK



Date: 19 JAN 2016 22:21:43

Highest Channel / 3MHz / 16QAM

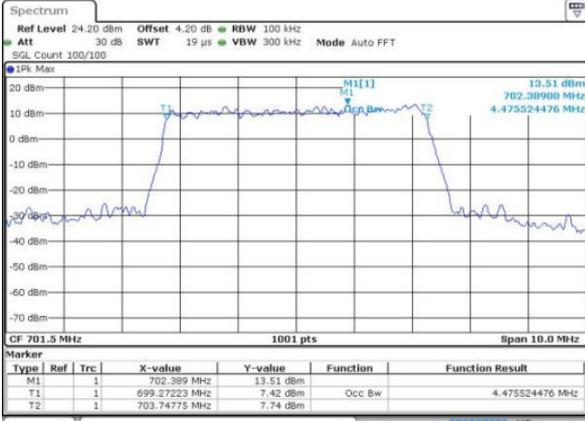


Date: 19 JAN 2016 22:21:53



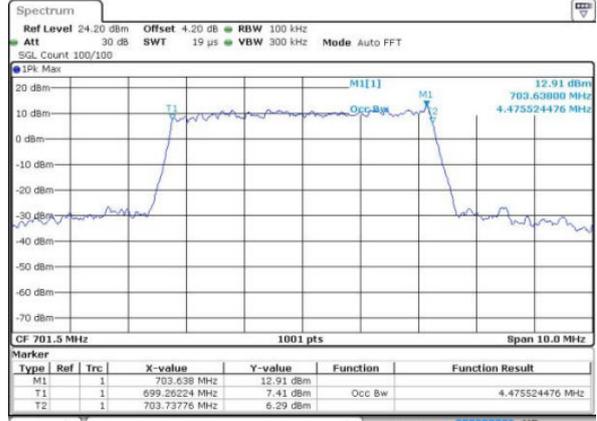
LTE Band 12

Lowest Channel / 5MHz / QPSK



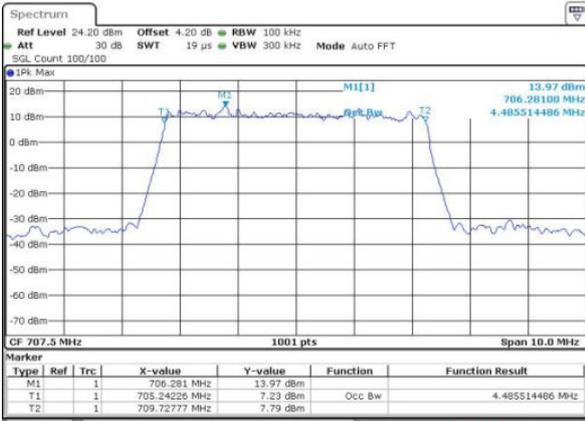
Date: 19 JAN 2016 22:44:48

Lowest Channel / 5MHz / 16QAM



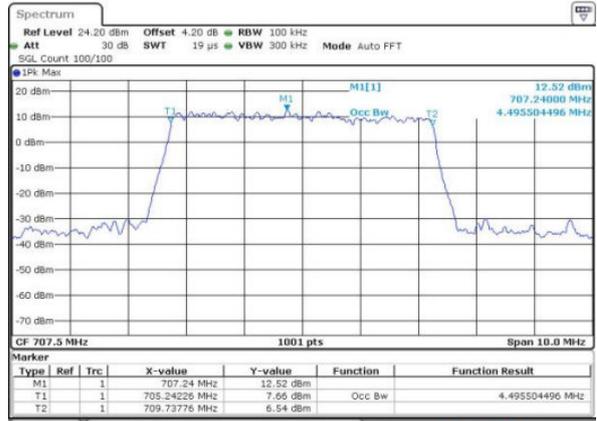
Date: 19 JAN 2016 22:44:59

Middle Channel / 5MHz / QPSK



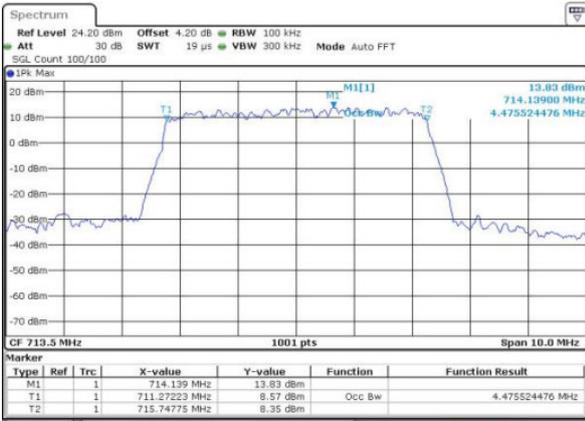
Date: 19 JAN 2016 22:45:20

Middle Channel / 5MHz / 16QAM



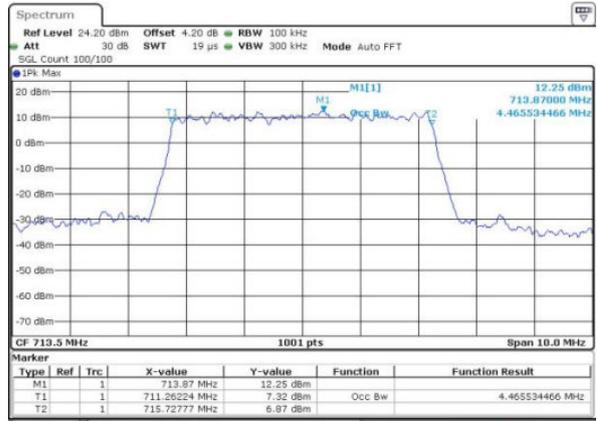
Date: 19 JAN 2016 22:45:09

Highest Channel / 5MHz / QPSK



Date: 19 JAN 2016 22:45:31

Highest Channel / 5MHz / 16QAM

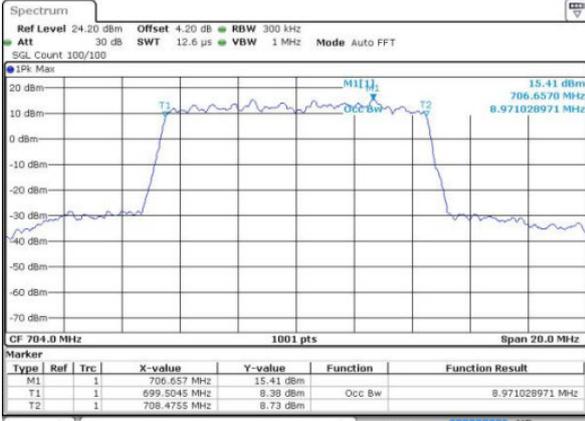


Date: 19 JAN 2016 22:45:42



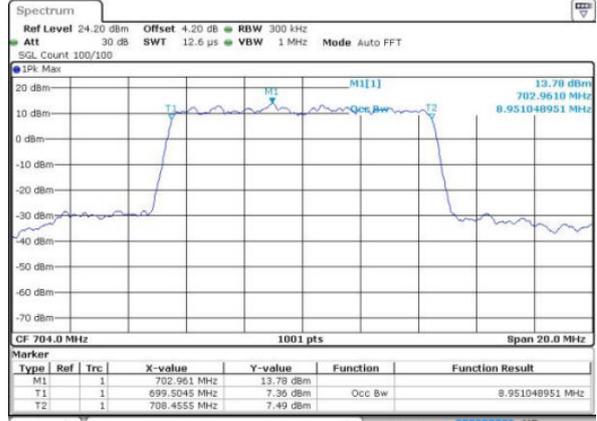
LTE Band 12

Lowest Channel / 10MHz / QPSK



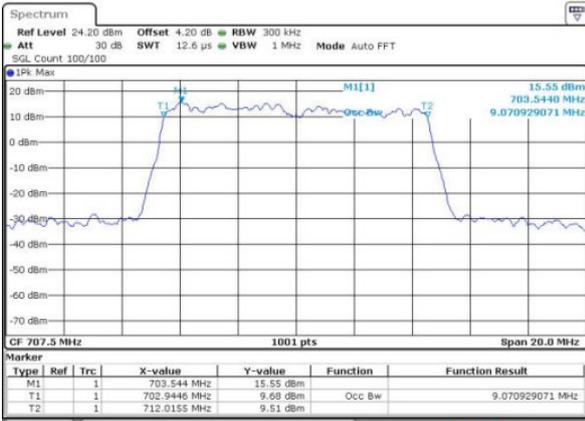
Date: 19 JAN 2016 23:37:17

Lowest Channel / 10MHz / 16QAM



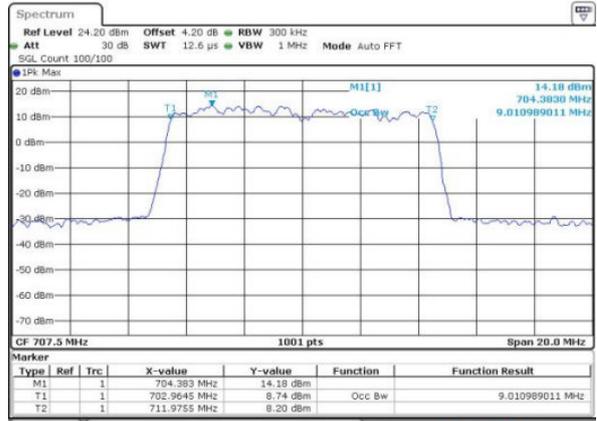
Date: 19 JAN 2016 23:08:47

Middle Channel / 10MHz / QPSK



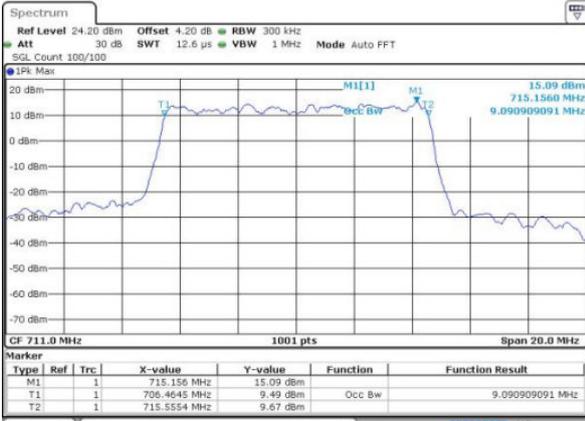
Date: 19 JAN 2016 23:09:08

Middle Channel / 10MHz / 16QAM



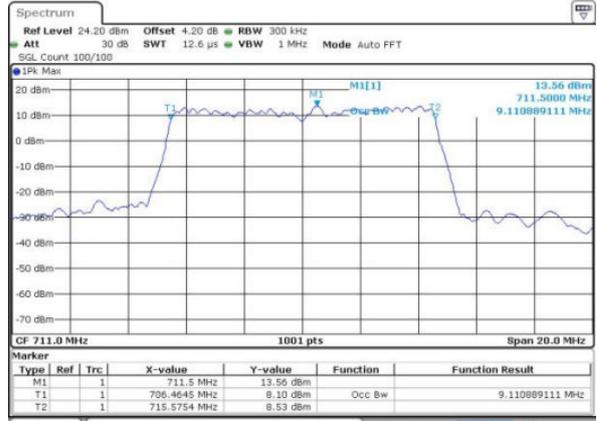
Date: 19 JAN 2016 23:08:57

Highest Channel / 10MHz / QPSK



Date: 19 JAN 2016 23:09:19

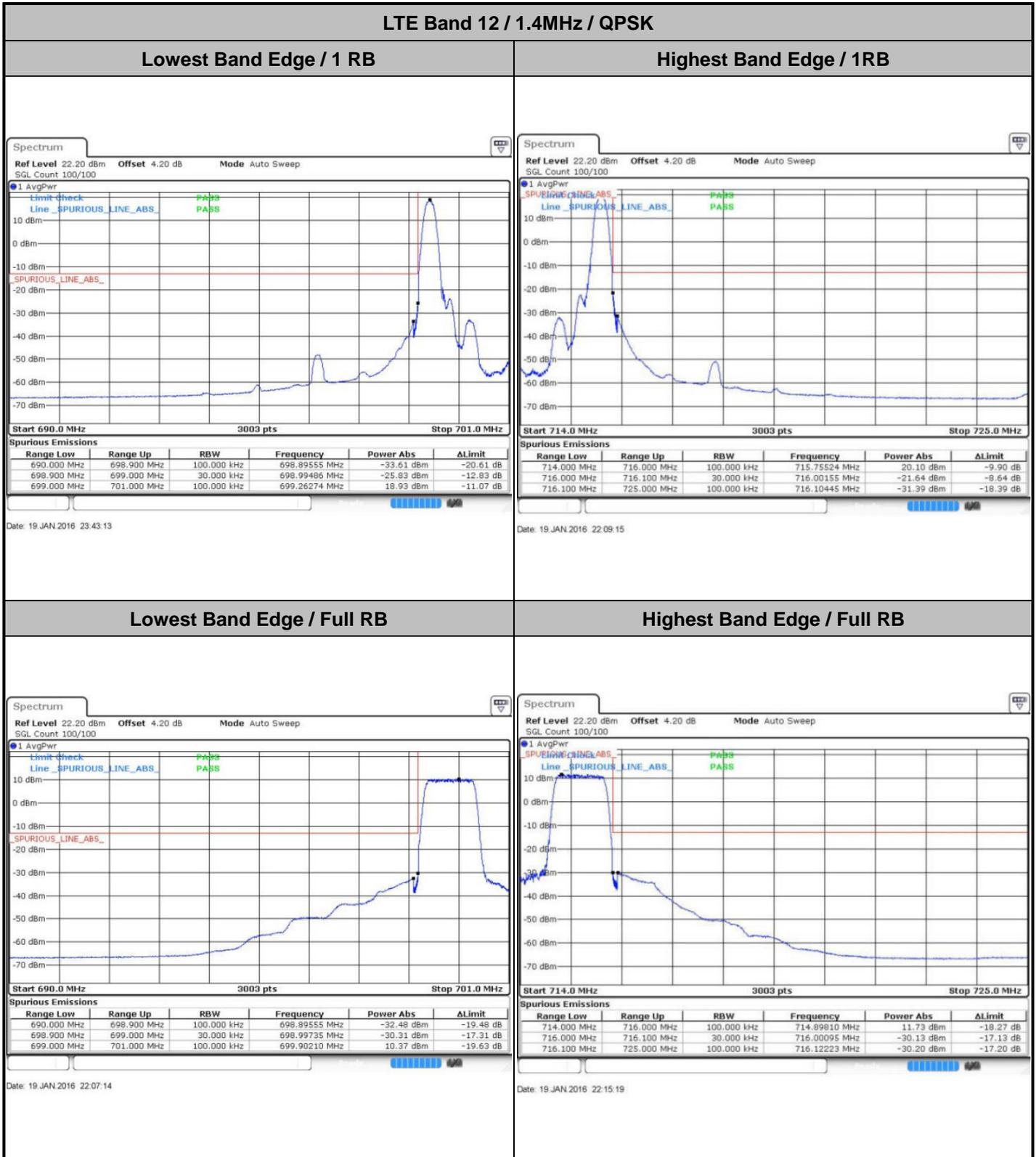
Highest Channel / 10MHz / 16QAM



Date: 19 JAN 2016 23:09:29



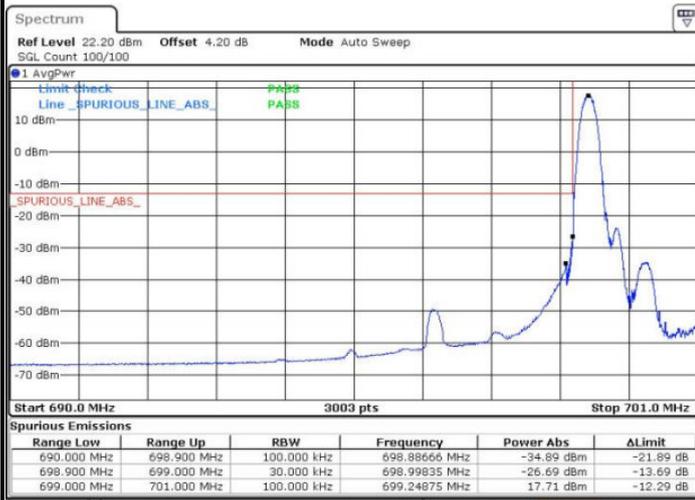
# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 19 JAN 2016 22:03:12

Highest Band Edge / 1 RB



Date: 19 JAN 2016 22:11:16

Lowest Band Edge / Full RB



Date: 19 JAN 2016 22:05:13

Highest Band Edge / Full RB

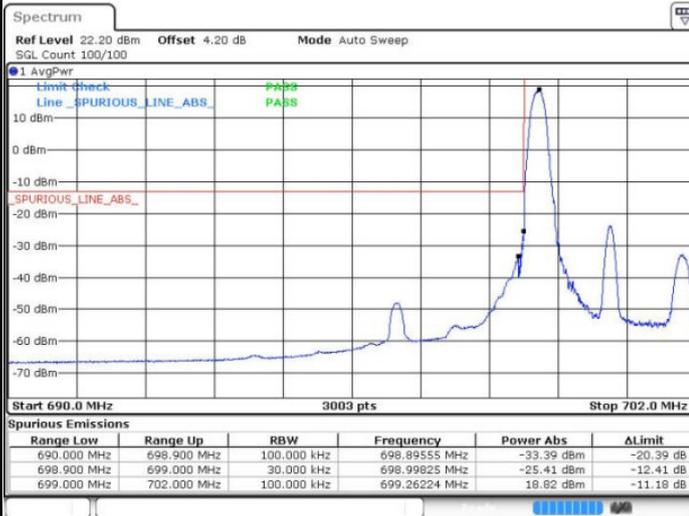


Date: 19 JAN 2016 22:13:18



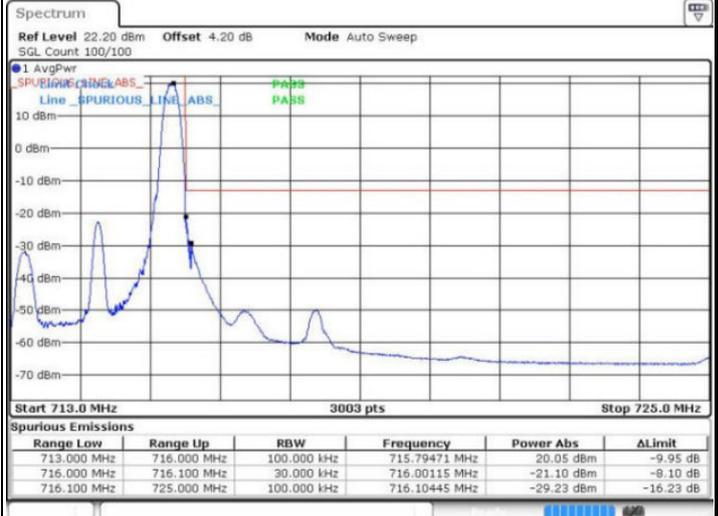
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 19 JAN 2016 22:24:59

Highest Band Edge / 1 RB



Date: 19 JAN 2016 22:33:03

Lowest Band Edge / Full RB



Date: 19 JAN 2016 22:31:02

Highest Band Edge / Full RB

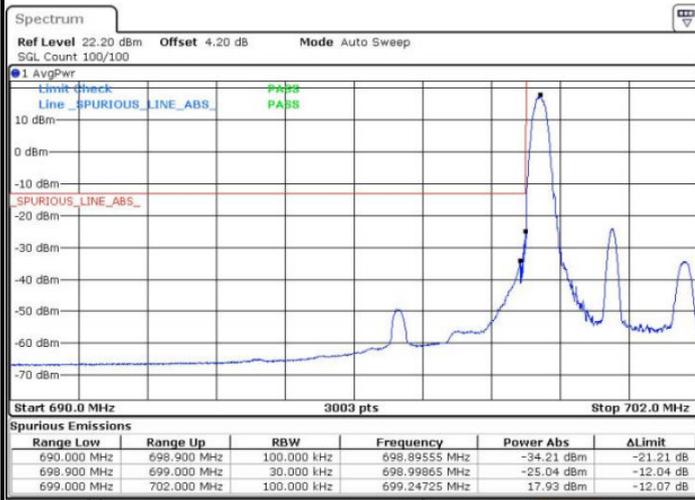


Date: 19 JAN 2016 22:39:07



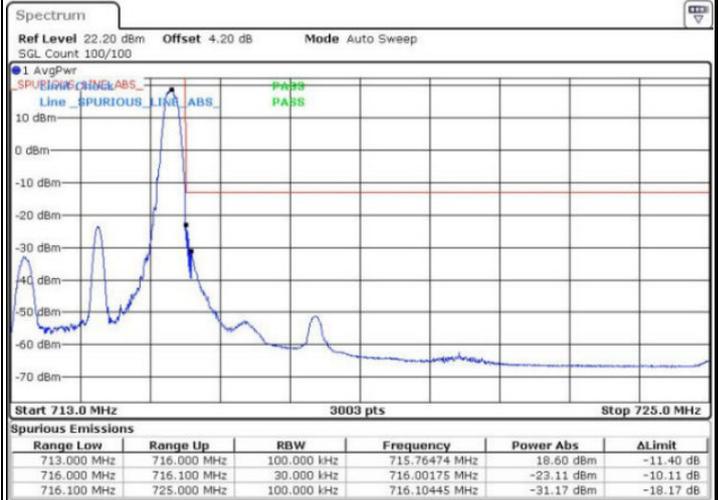
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 19 JAN 2016 22:27:00

Highest Band Edge / 1 RB



Date: 19 JAN 2016 22:35:04

Lowest Band Edge / Full RB



Date: 19 JAN 2016 22:29:01

Highest Band Edge / Full RB

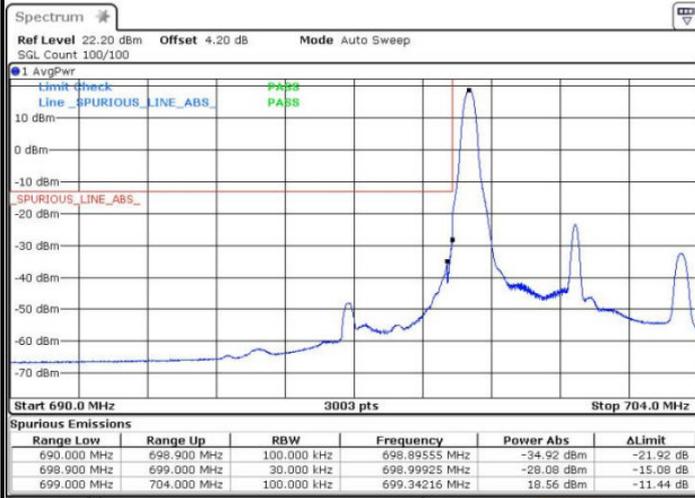


Date: 19 JAN 2016 22:37:06



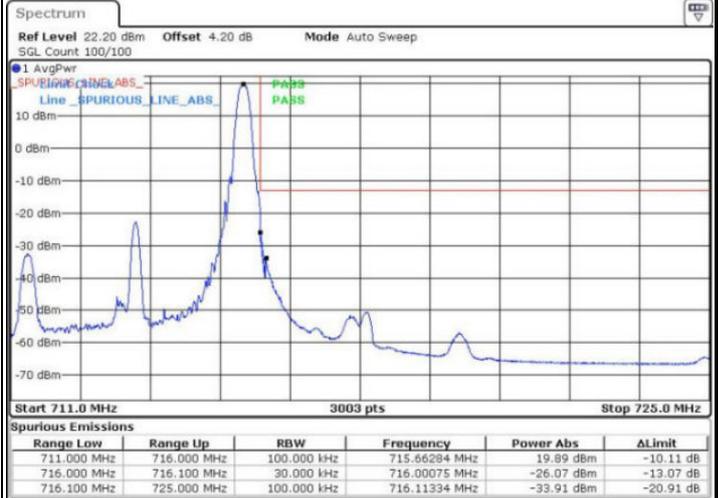
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



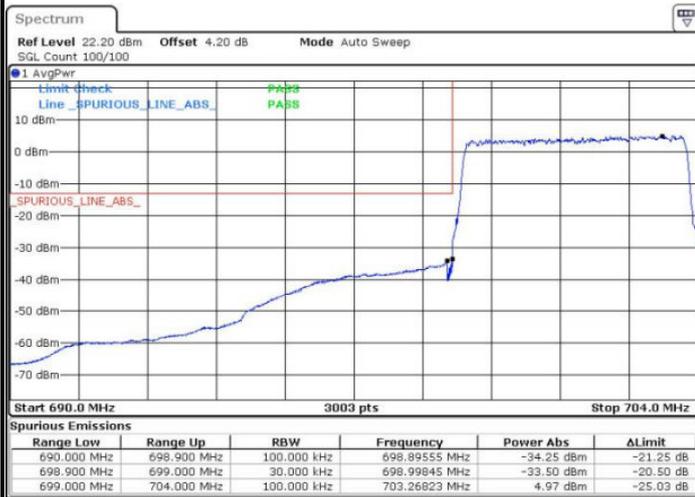
Date: 19 JAN 2016 23:54:00

Highest Band Edge / 1 RB



Date: 19 JAN 2016 22:56:51

Lowest Band Edge / Full RB



Date: 19 JAN 2016 22:54:50

Highest Band Edge / Full RB

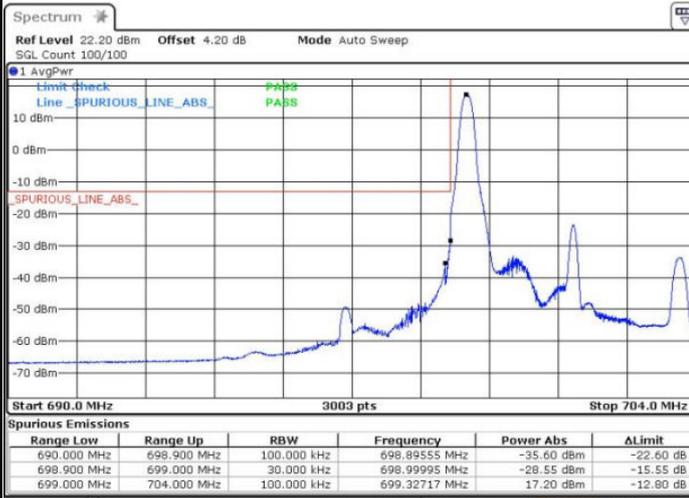


Date: 19 JAN 2016 23:02:55



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 19 JAN 2016 23:50:32

Highest Band Edge / 1 RB



Date: 19 JAN 2016 23:56:44

Lowest Band Edge / Full RB



Date: 19 JAN 2016 22:52:49

Highest Band Edge / Full RB

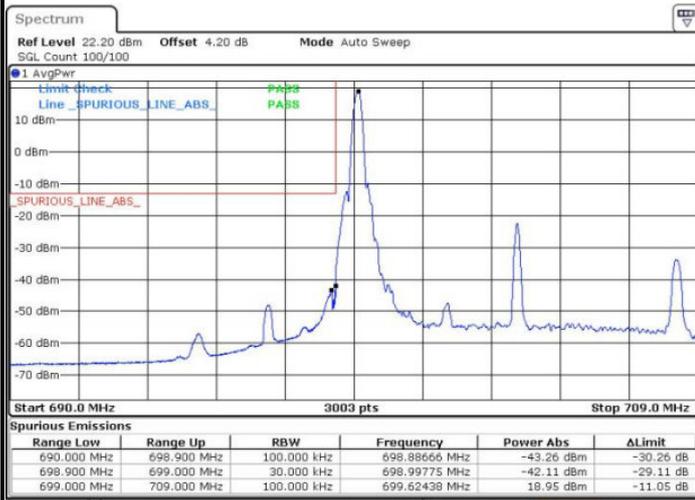


Date: 19 JAN 2016 23:00:54



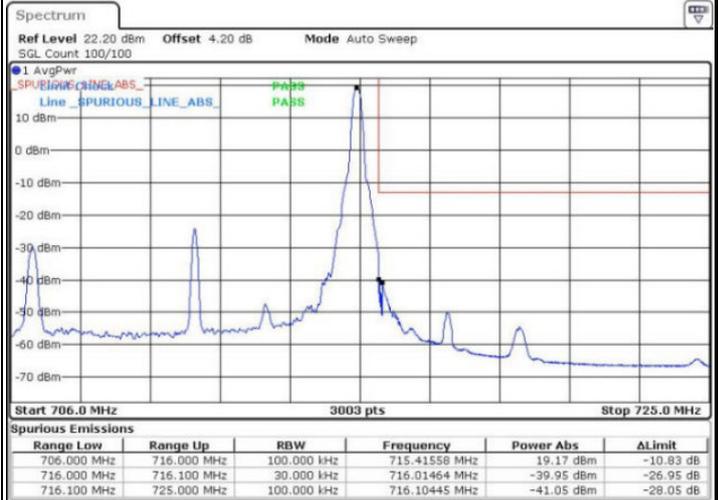
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



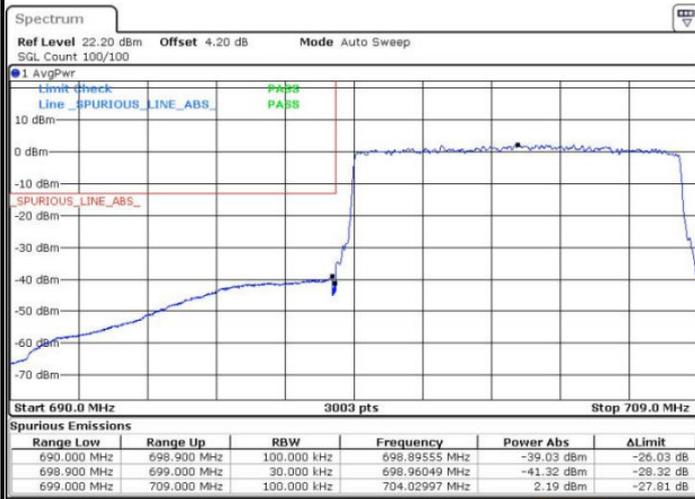
Date: 19 JAN 2016 23:12:35

Highest Band Edge / 1 RB



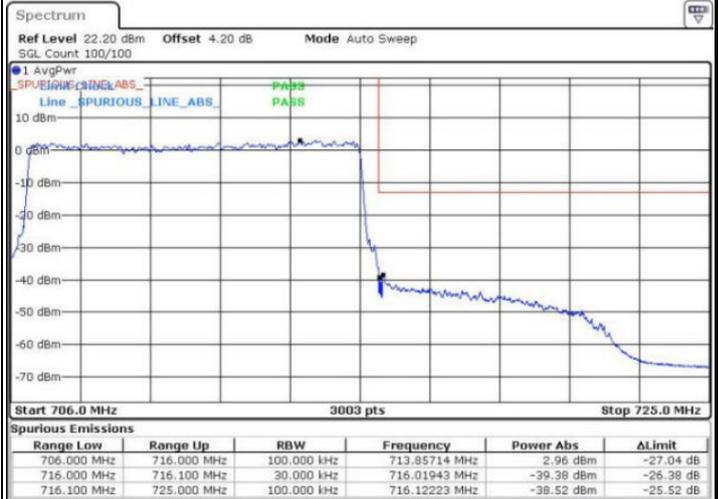
Date: 19 JAN 2016 23:20:39

Lowest Band Edge / Full RB



Date: 19 JAN 2016 23:18:38

Highest Band Edge / Full RB



Date: 19 JAN 2016 23:26:43