



LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.17	4.64	4.78	5.65	PASS
Middle CH	4.2	4.84	5.07	5.83	
Highest CH	4.29	4.75	5.42	5.71	



LTE Band 2 / 20MHz / QPSK

Lowest Channel / 1RB



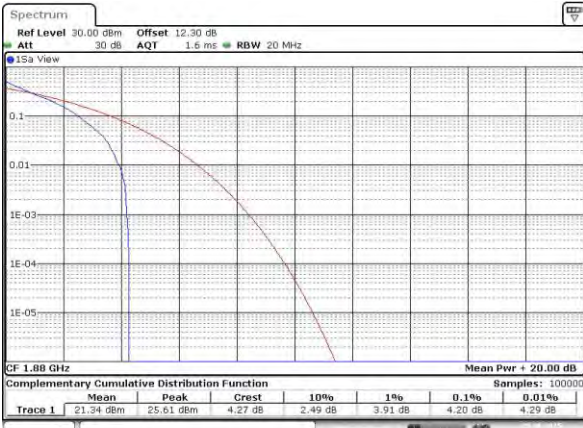
Date: 26 JUN 2015 01:12:48

Lowest Channel / Full RB



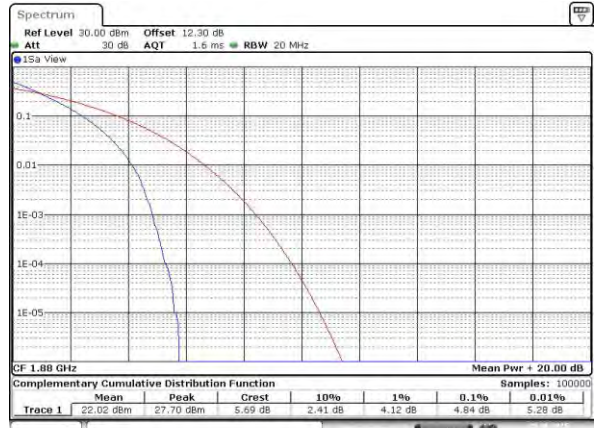
Date: 26 JUN 2015 01:13:38

Middle Channel / 1RB



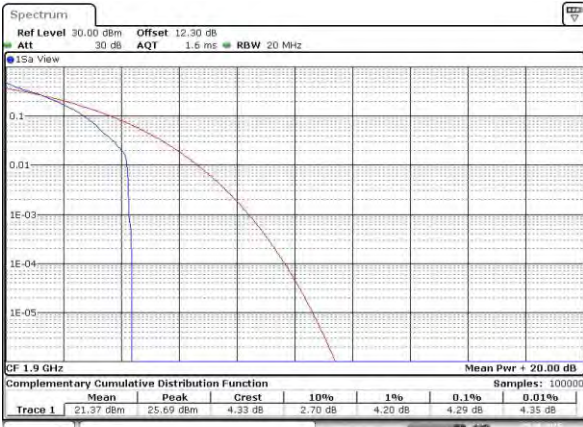
Date: 26 JUN 2015 01:14:23

Middle Channel / Full RB



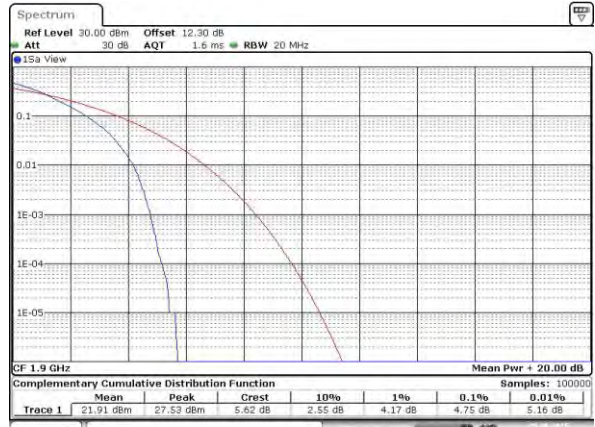
Date: 26 JUN 2015 01:15:45

Highest Channel / 1RB



Date: 26 JUN 2015 01:16:12

Highest Channel / Full RB

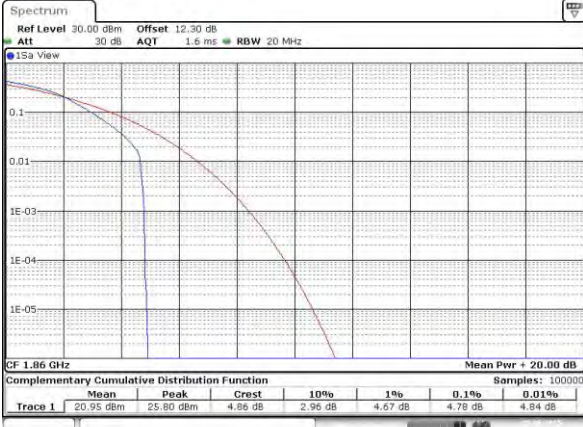


Date: 26 JUN 2015 01:16:46



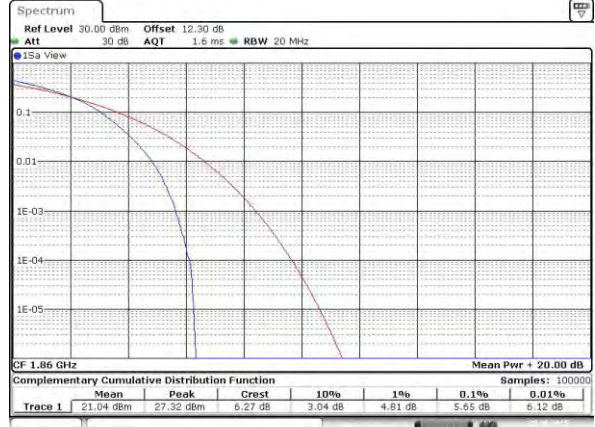
LTE Band 2 / 20MHz / 16QAM

Lowest Channel / 1RB



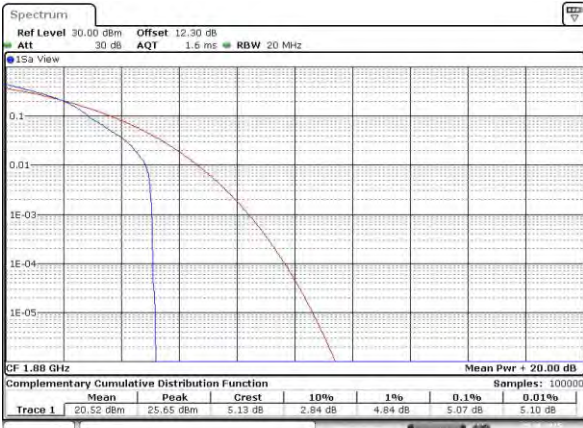
Date: 26 JUN 2015 01:09:44

Lowest Channel / Full RB



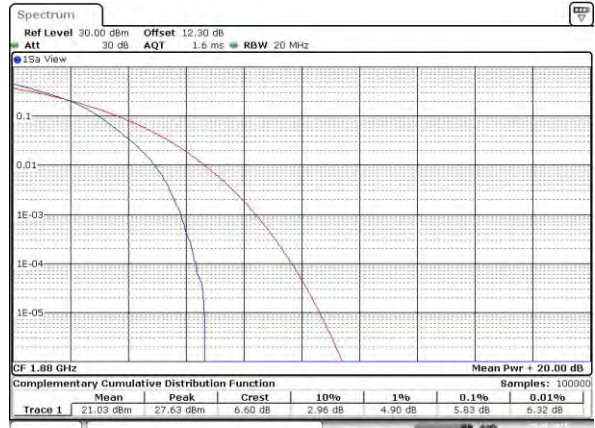
Date: 26 JUN 2015 01:10:09

Middle Channel / 1RB



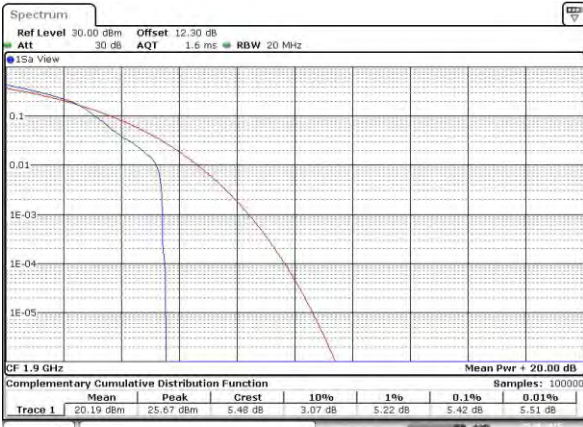
Date: 26 JUN 2015 01:10:41

Middle Channel / Full RB



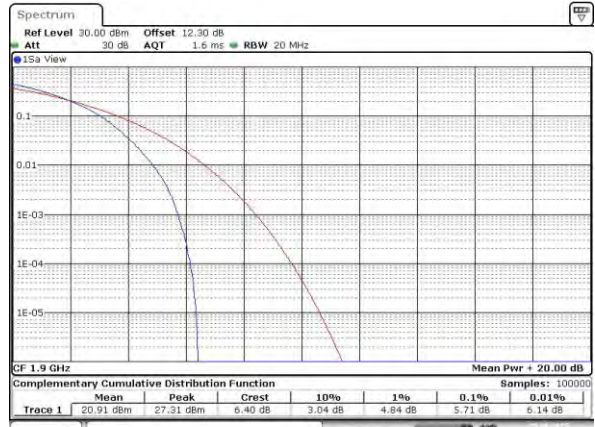
Date: 26 JUN 2015 01:11:09

Highest Channel / 1RB



Date: 26 JUN 2015 01:11:37

Highest Channel / Full RB



Date: 26 JUN 2015 01:12:18



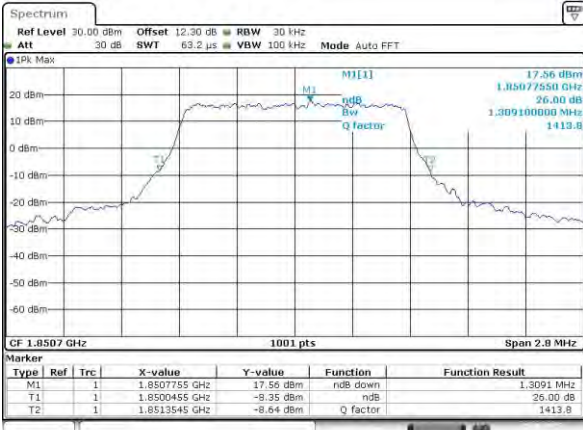
26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.31	1.31	3.03	3.06	5.04	5.05	9.99	9.93	14.63	14.69	20.14	20.18
Middle CH	1.31	1.33	3.05	3.05	5.04	5.05	10.01	9.99	14.69	14.72	20.26	20.3
Highest CH	1.30	1.32	3.04	3.05	5.07	5.06	9.97	9.91	14.78	14.63	20.42	20.3



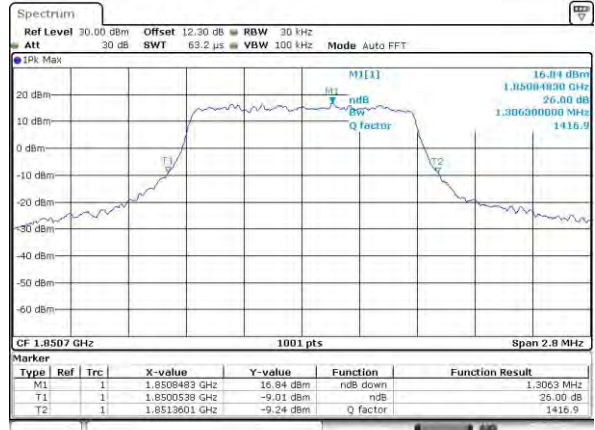
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



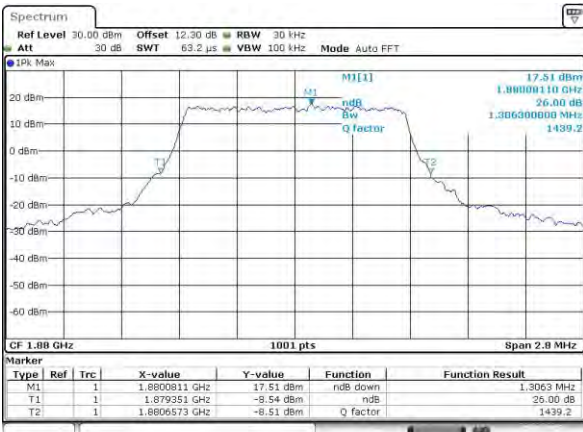
Date: 26 JUN 2015 00:46:50

Lowest Channel / 1.4MHz / 16QAM



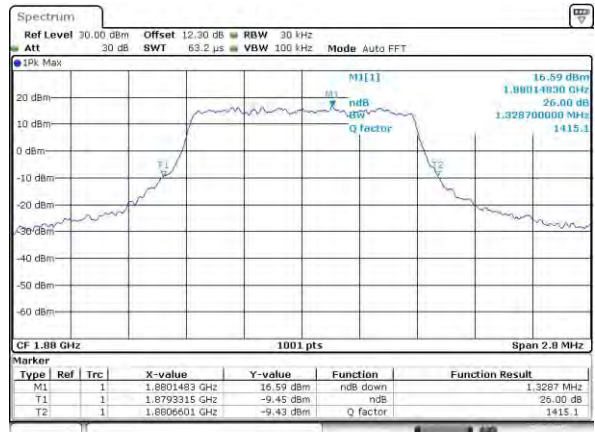
Date: 26 JUN 2015 00:47:12

Middle Channel / 1.4MHz / QPSK



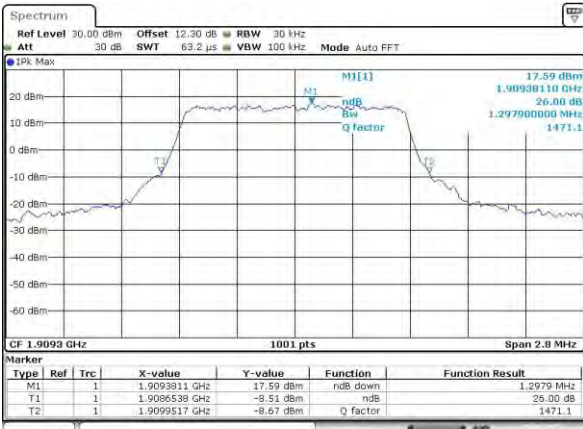
Date: 26 JUN 2015 00:56:16

Middle Channel / 1.4MHz / 16QAM



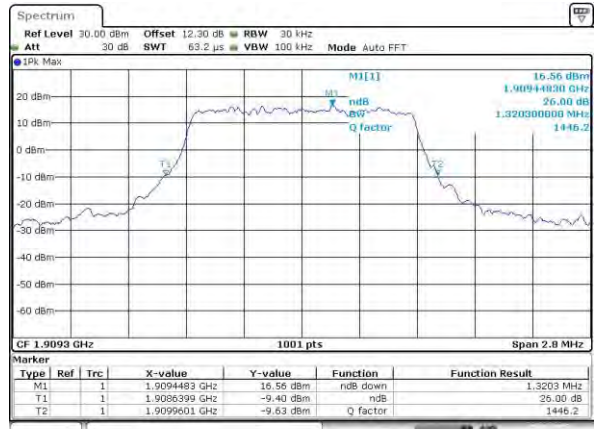
Date: 26 JUN 2015 00:56:40

Highest Channel / 1.4MHz / QPSK



Date: 26 JUN 2015 01:00:32

Highest Channel / 1.4MHz / 16QAM

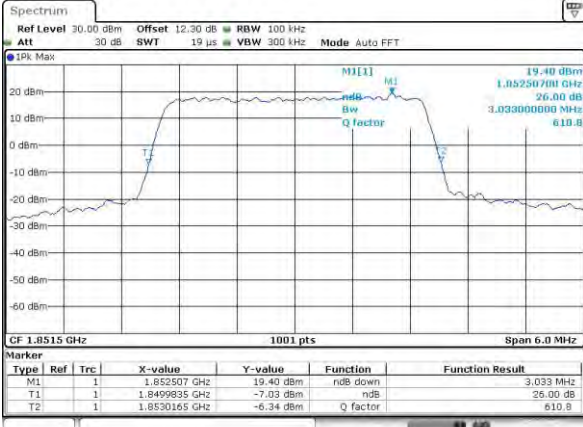


Date: 26 JUN 2015 01:00:57



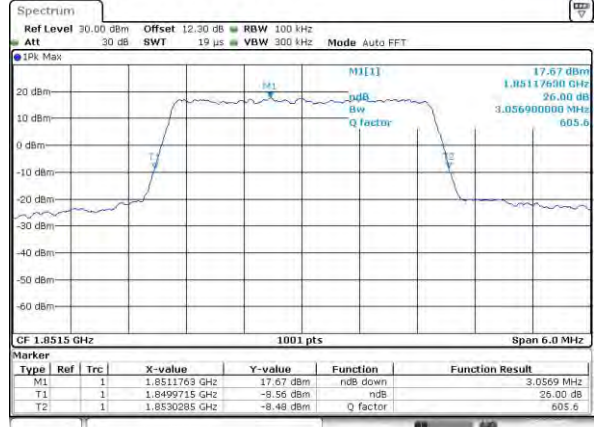
LTE Band 2

Lowest Channel / 3MHz / QPSK



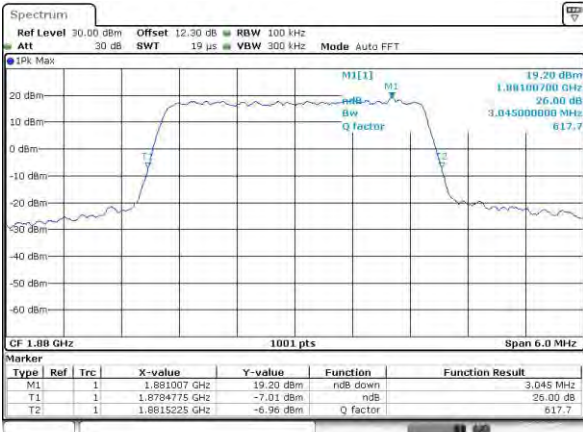
Date: 25 JUN 2015 23:03:10

Lowest Channel / 3MHz / 16QAM



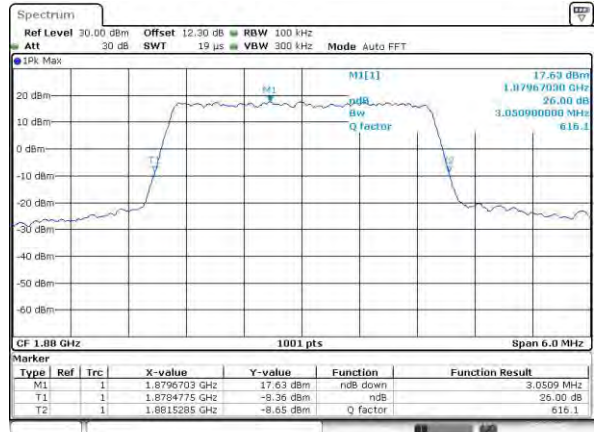
Date: 25 JUN 2015 23:03:23

Middle Channel / 3MHz / QPSK



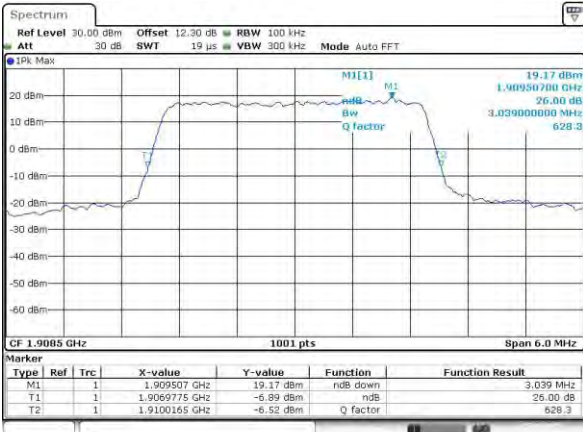
Date: 25 JUN 2015 23:10:58

Middle Channel / 3MHz / 16QAM



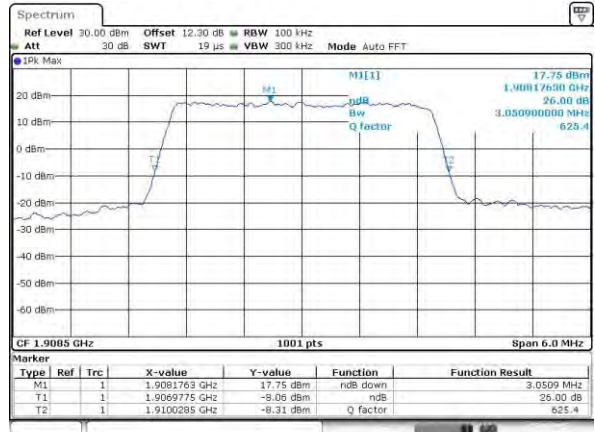
Date: 25 JUN 2015 23:11:11

Highest Channel / 3MHz / QPSK



Date: 25 JUN 2015 23:14:05

Highest Channel / 3MHz / 16QAM

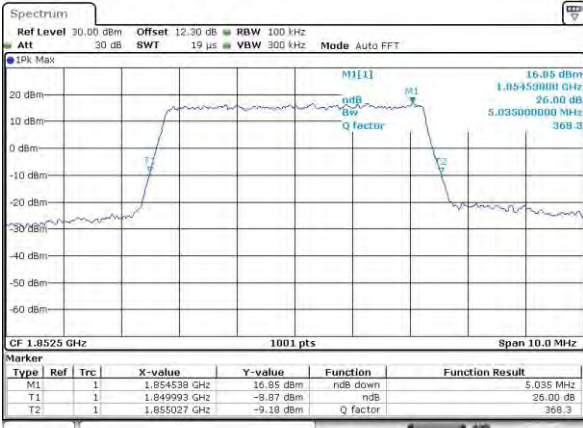


Date: 25 JUN 2015 23:14:18



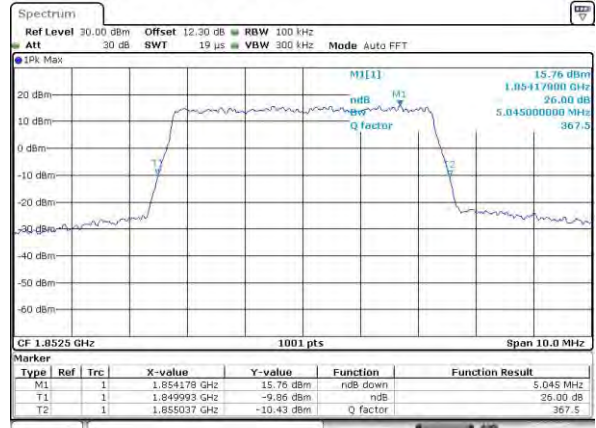
LTE Band 2

Lowest Channel / 5MHz / QPSK



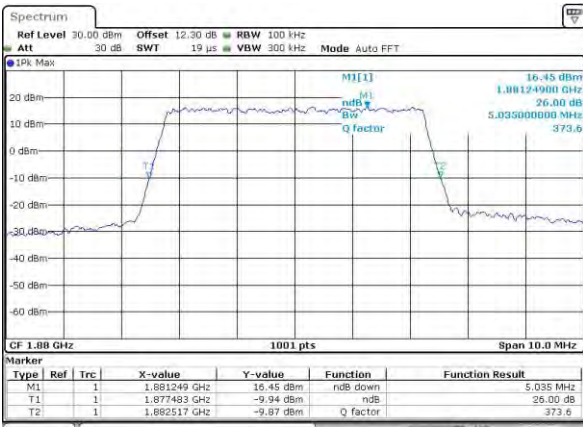
Date: 25 JUN 2015 23 21:53

Lowest Channel / 5MHz / 16QAM



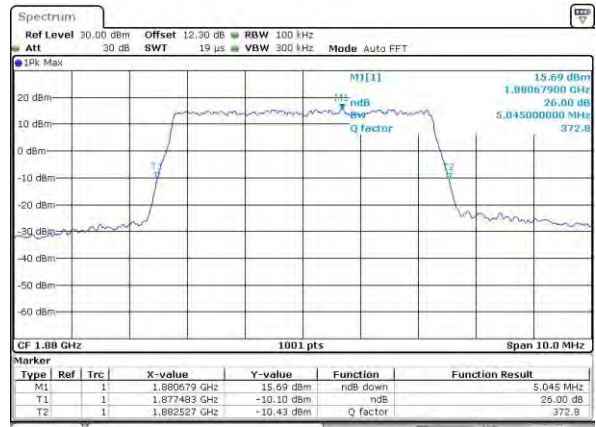
Date: 25 JUN 2015 23 22:05

Middle Channel / 5MHz / QPSK



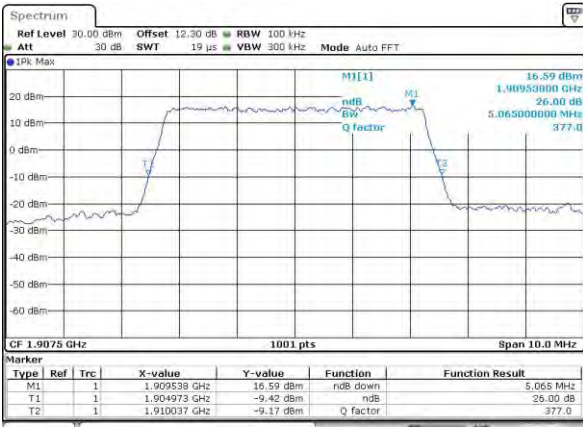
Date: 25 JUN 2015 23 29:40

Middle Channel / 5MHz / 16QAM



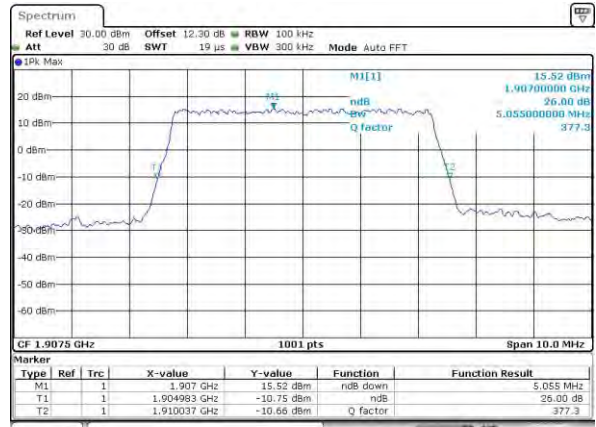
Date: 25 JUN 2015 23 29:52

Highest Channel / 5MHz / QPSK



Date: 25 JUN 2015 23 32:47

Highest Channel / 5MHz / 16QAM

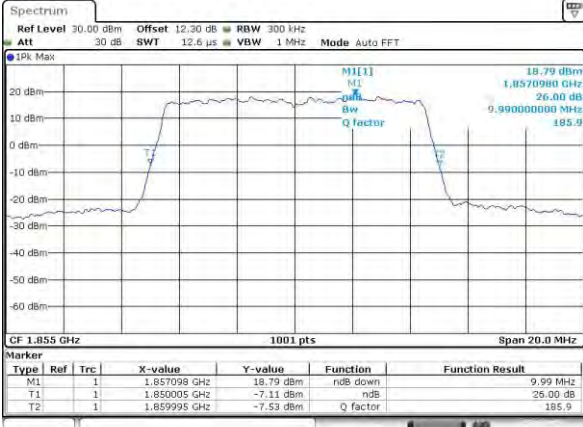


Date: 25 JUN 2015 23 33:00



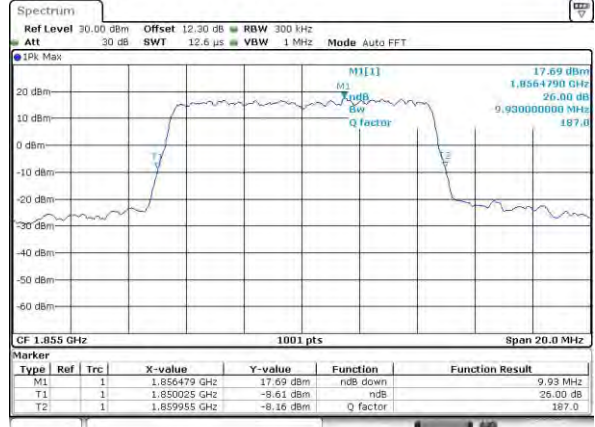
LTE Band 2

Lowest Channel / 10MHz / QPSK



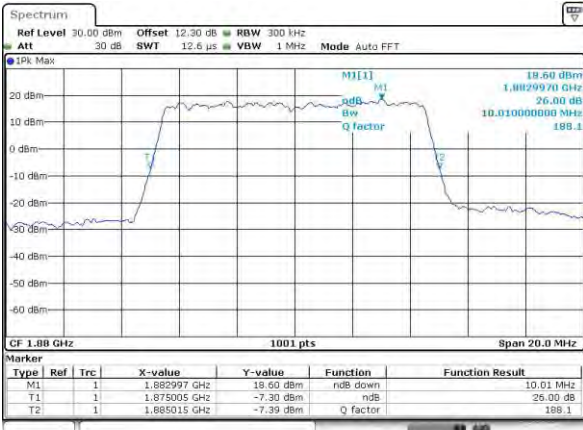
Date: 25 JUN 2015 23:40:34

Lowest Channel / 10MHz / 16QAM



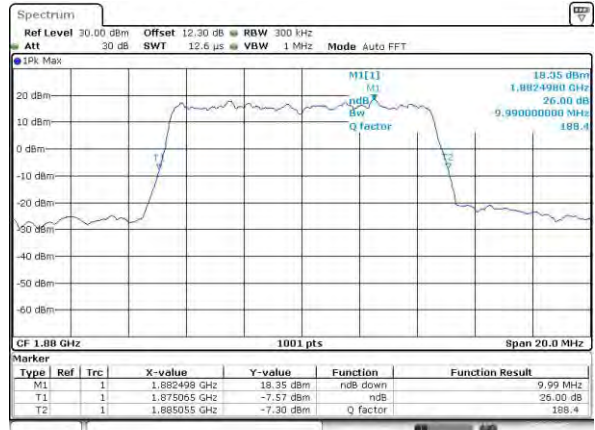
Date: 25 JUN 2015 23:40:46

Middle Channel / 10MHz / QPSK



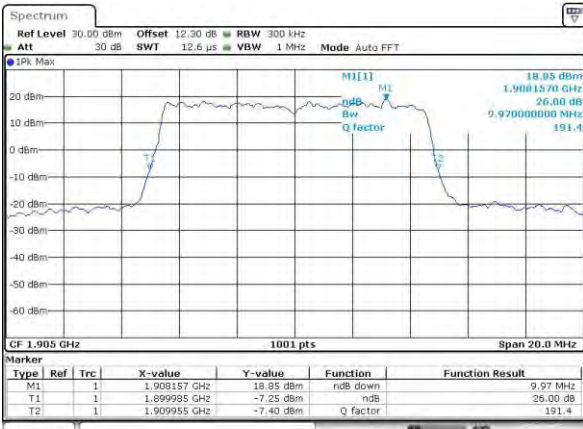
Date: 25 JUN 2015 23:48:20

Middle Channel / 10MHz / 16QAM



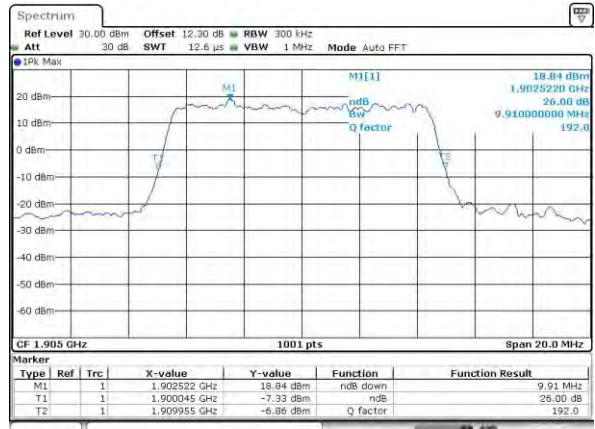
Date: 25 JUN 2015 23:48:33

Highest Channel / 10MHz / QPSK



Date: 25 JUN 2015 23:51:28

Highest Channel / 10MHz / 16QAM

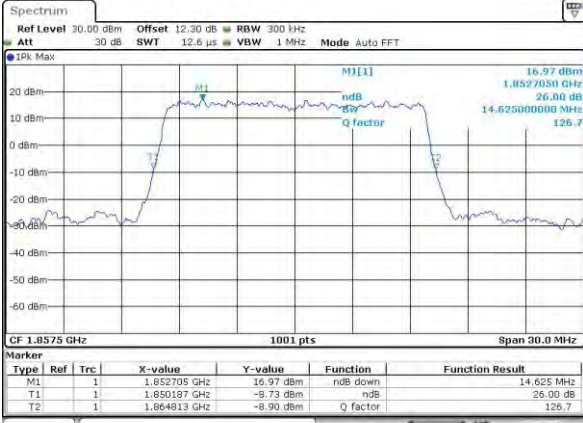


Date: 25 JUN 2015 23:51:41



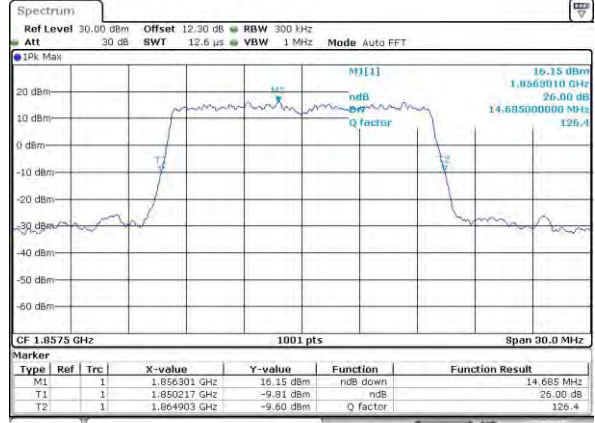
LTE Band 2

Lowest Channel / 15MHz / QPSK



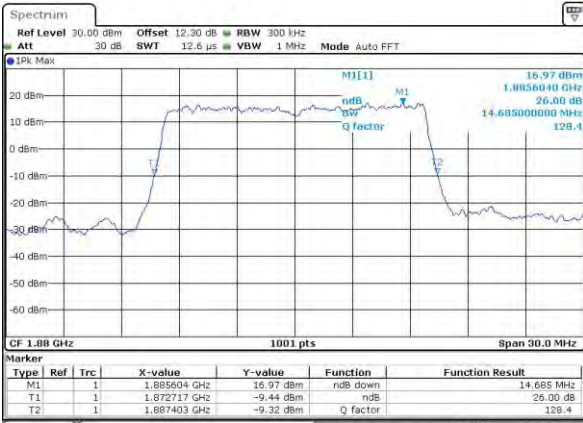
Date: 25 JUN 2015 23:59:15

Lowest Channel / 15MHz / 16QAM



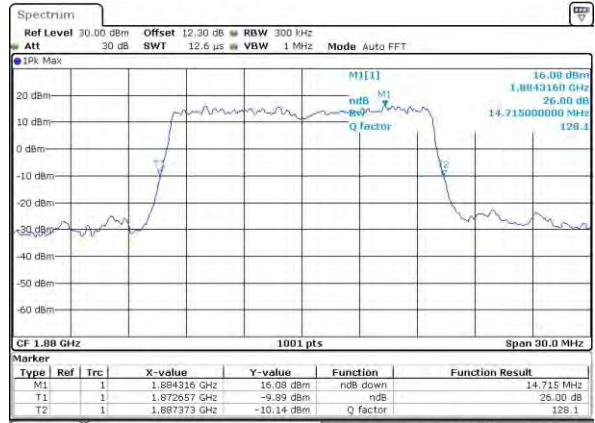
Date: 25 JUN 2015 23:59:28

Middle Channel / 15MHz / QPSK



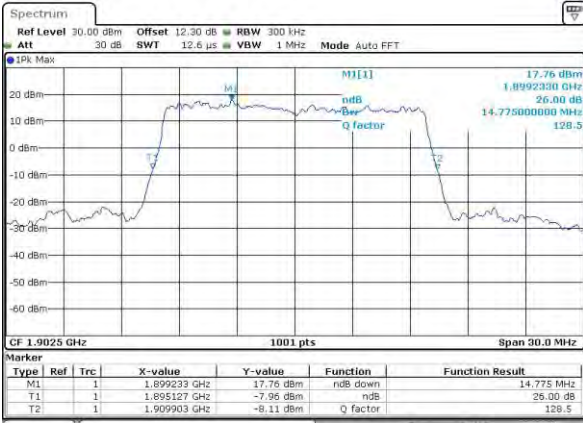
Date: 26 JUN 2015 00:07:10

Middle Channel / 15MHz / 16QAM



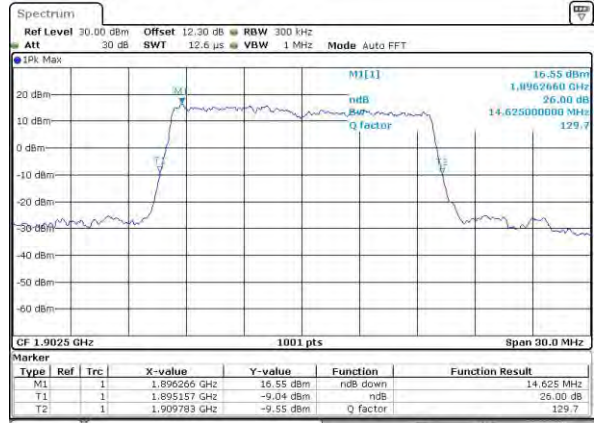
Date: 26 JUN 2015 00:07:24

Highest Channel / 15MHz / QPSK



Date: 26 JUN 2015 00:10:29

Highest Channel / 15MHz / 16QAM

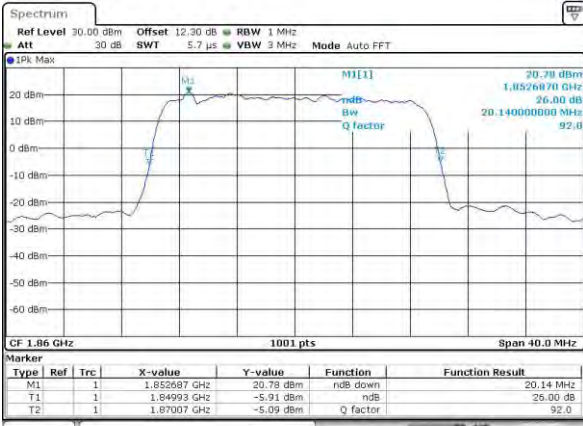


Date: 26 JUN 2015 00:10:44



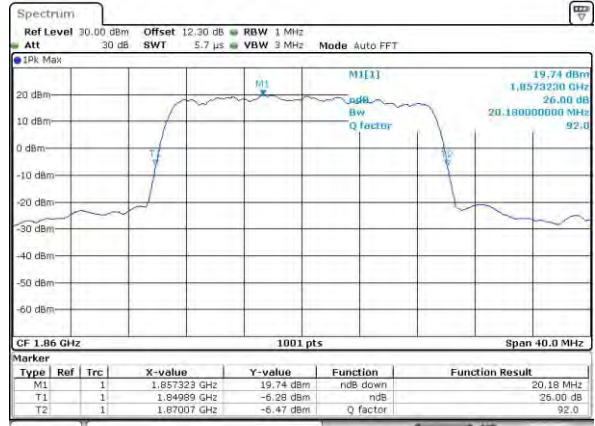
LTE Band 2

Lowest Channel / 20MHz / QPSK



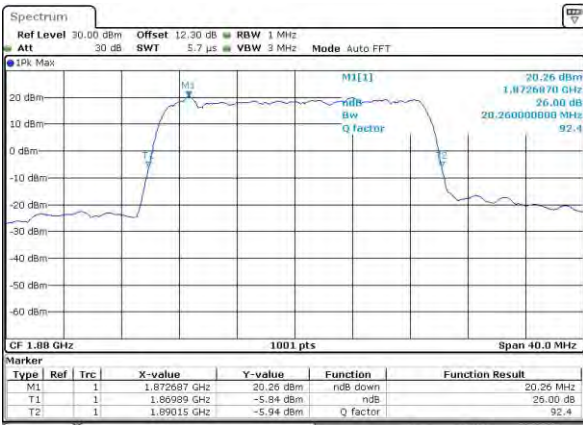
Date: 26 JUN 2015 00:18:48

Lowest Channel / 20MHz / 16QAM



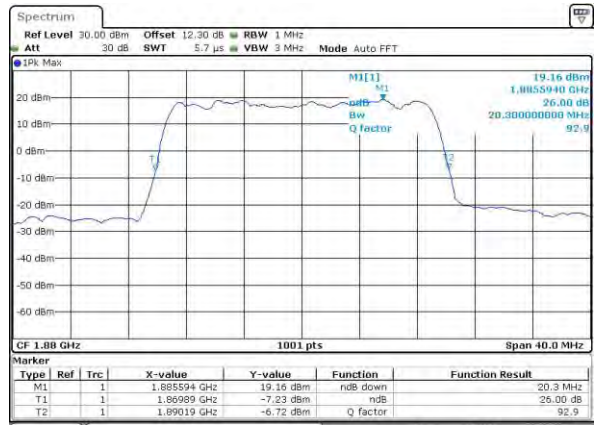
Date: 26 JUN 2015 00:19:05

Middle Channel / 20MHz / QPSK



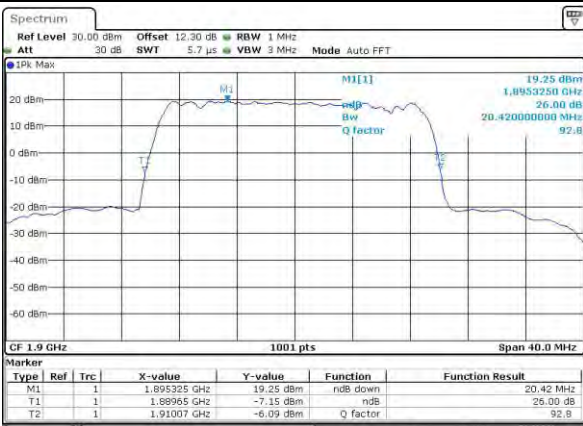
Date: 26 JUN 2015 00:27:24

Middle Channel / 20MHz / 16QAM



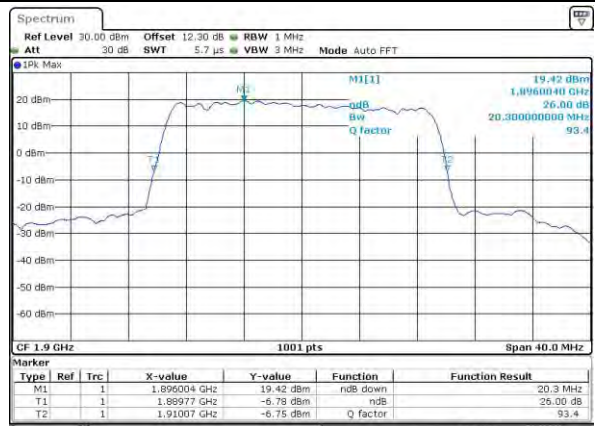
Date: 26 JUN 2015 00:27:43

Highest Channel / 20MHz / QPSK



Date: 26 JUN 2015 00:31:09

Highest Channel / 20MHz / 16QAM



Date: 26 JUN 2015 00:31:29



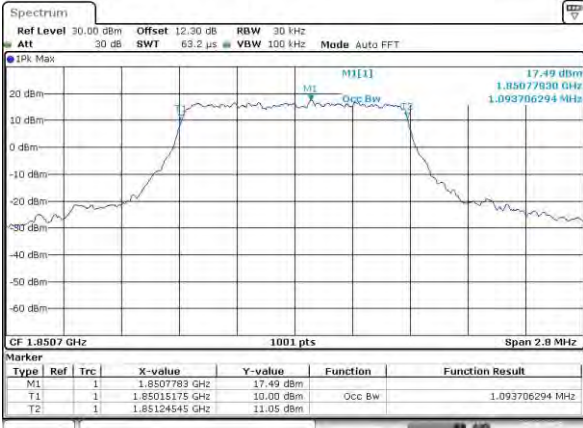
Occupied Bandwidth

Mode	LTE Band 2 : 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	2.72	2.73	4.5	4.49	9.01	9.03	13.49	13.43	18.22	18.18
Middle CH	1.1	1.1	2.72	2.73	4.5	4.5	9.05	9.03	13.46	13.46	18.5	18.46
Highest CH	1.1	1.1	2.73	2.73	4.51	4.51	9.11	9.03	13.49	13.46	18.18	18.38



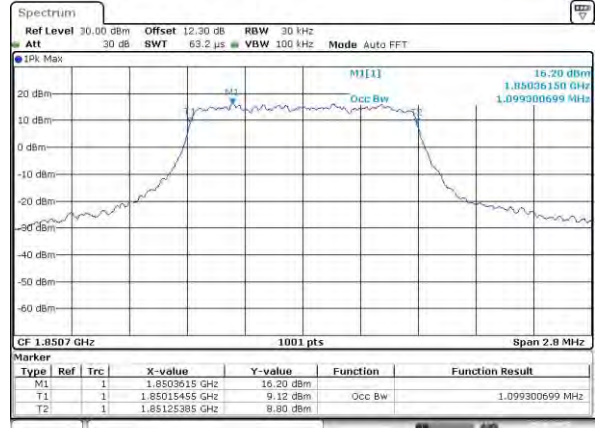
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



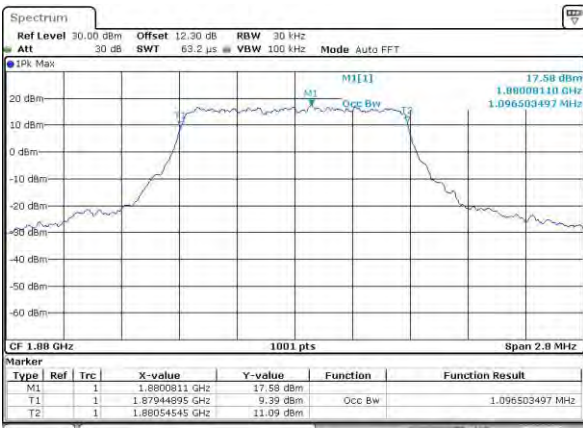
Date: 26 JUN 2015 00:46:09

Lowest Channel / 1.4MHz / 16QAM



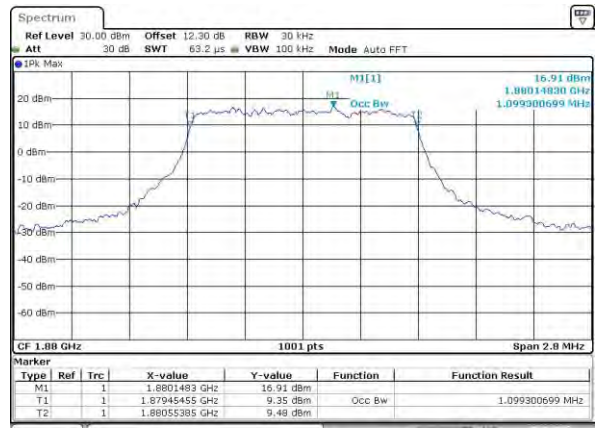
Date: 26 JUN 2015 00:46:29

Middle Channel / 1.4MHz / QPSK



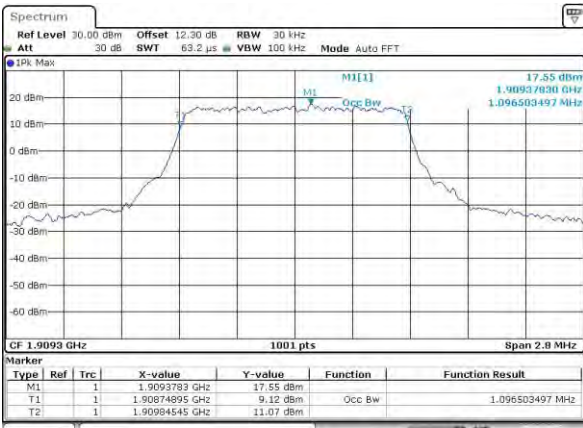
Date: 26 JUN 2015 00:55:32

Middle Channel / 1.4MHz / 16QAM



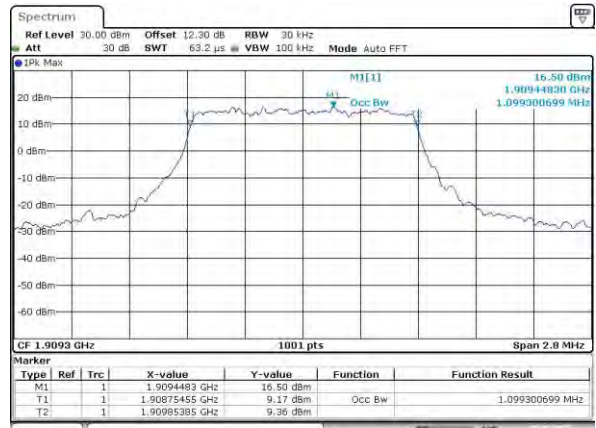
Date: 26 JUN 2015 00:55:53

Highest Channel / 1.4MHz / QPSK



Date: 26 JUN 2015 00:59:45

Highest Channel / 1.4MHz / 16QAM

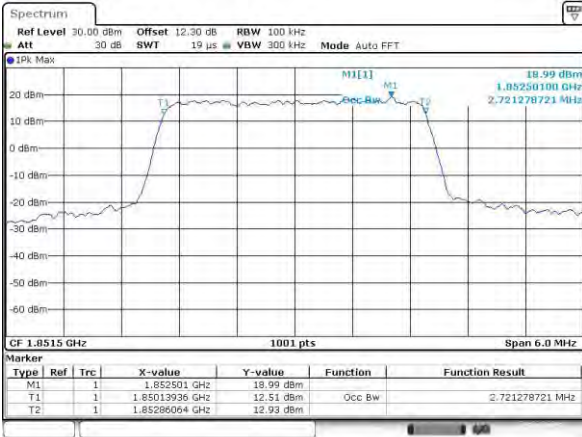


Date: 26 JUN 2015 01:00:08



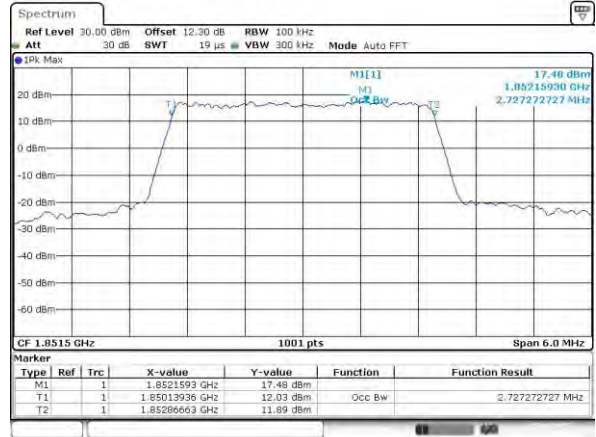
LTE Band 2

Lowest Channel / 3MHz / QPSK



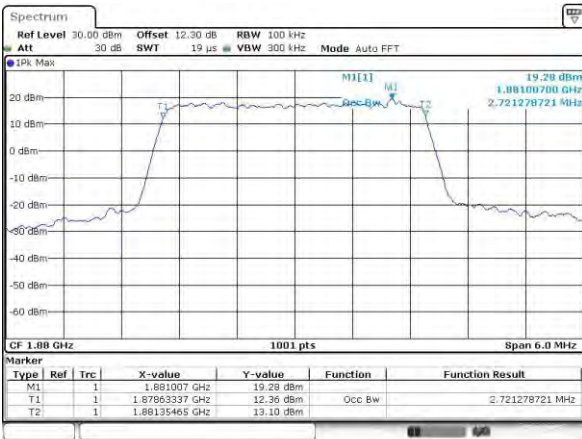
Date: 25 JUN 2015 23:02:47

Lowest Channel / 3MHz / 16QAM



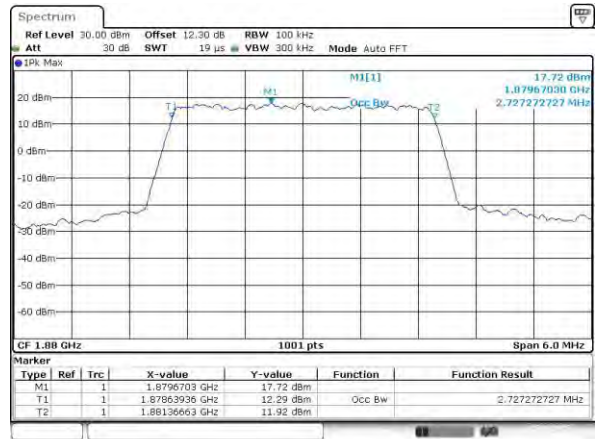
Date: 25 JUN 2015 23:02:58

Middle Channel / 3MHz / QPSK



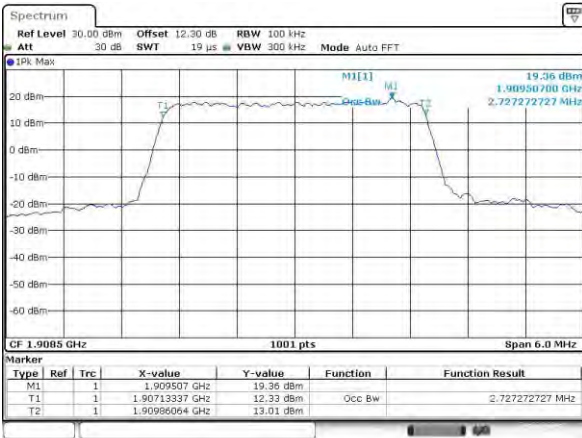
Date: 25 JUN 2015 23:10:34

Middle Channel / 3MHz / 16QAM



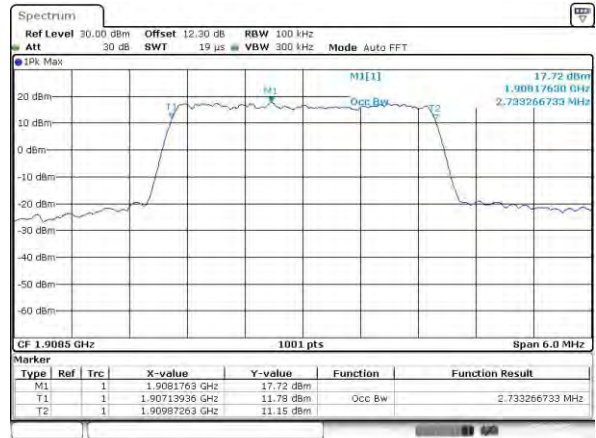
Date: 25 JUN 2015 23:10:45

Highest Channel / 3MHz / QPSK



Date: 25 JUN 2015 23:13:42

Highest Channel / 3MHz / 16QAM

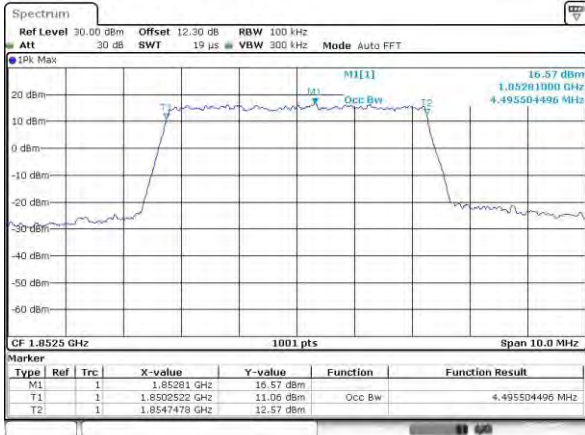


Date: 25 JUN 2015 23:13:53



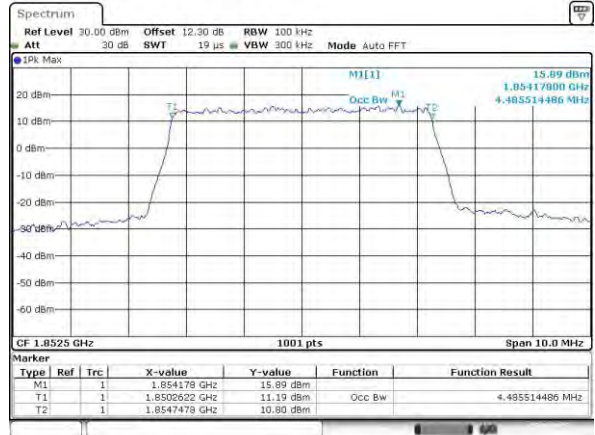
LTE Band 2

Lowest Channel / 5MHz / QPSK



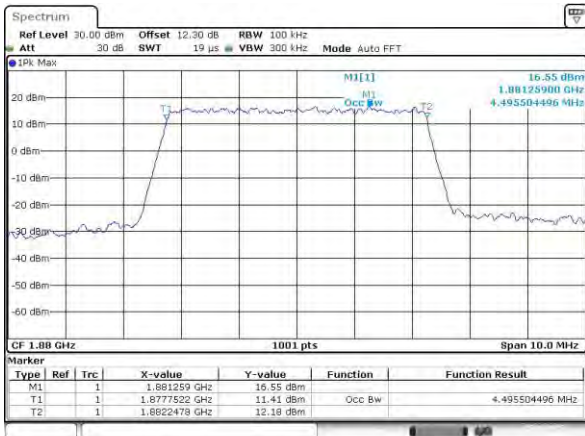
Date: 25 JUN 2015 23 21 30

Lowest Channel / 5MHz / 16QAM



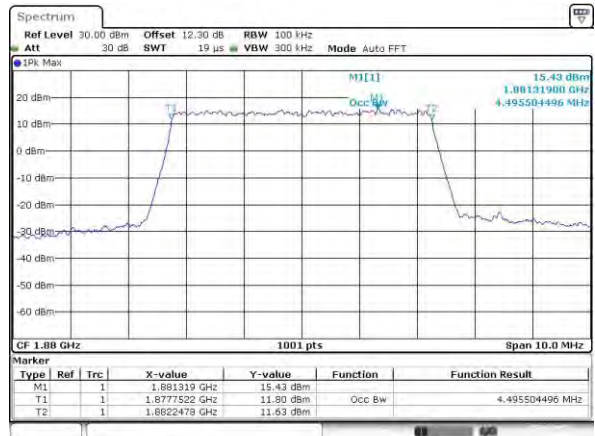
Date: 25 JUN 2015 23 21 40

Middle Channel / 5MHz / QPSK



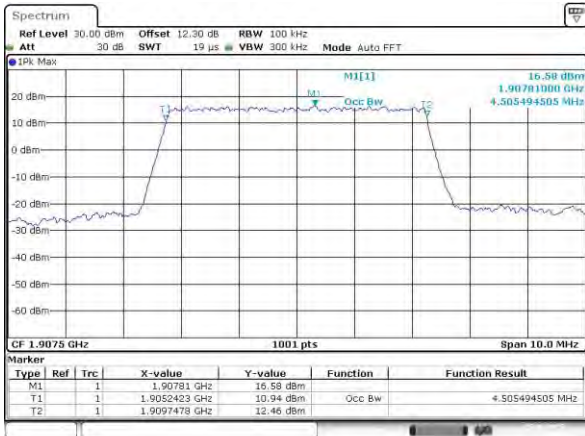
Date: 25 JUN 2015 23 29 16

Middle Channel / 5MHz / 16QAM



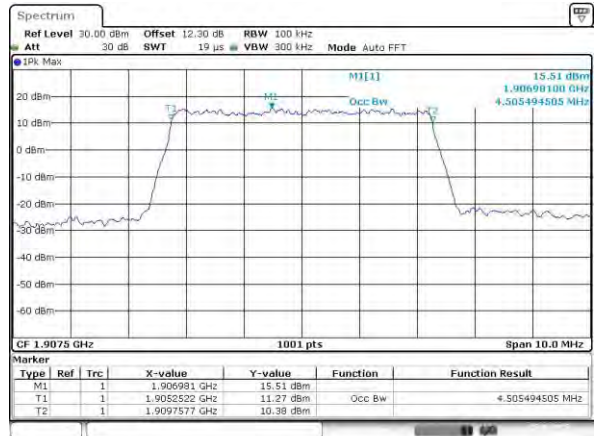
Date: 25 JUN 2015 23 29 27

Highest Channel / 5MHz / QPSK



Date: 25 JUN 2015 23 32 24

Highest Channel / 5MHz / 16QAM

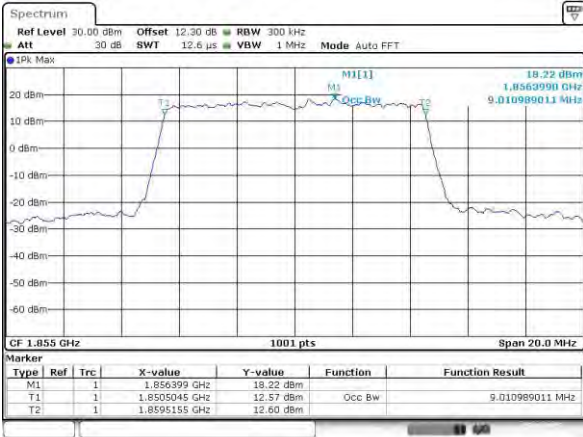


Date: 25 JUN 2015 23 32 34



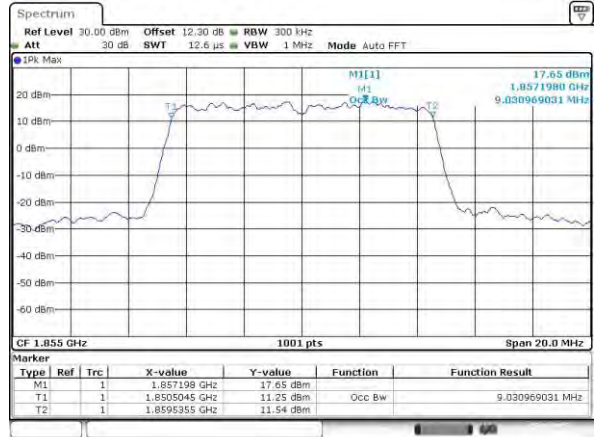
LTE Band 2

Lowest Channel / 10MHz / QPSK



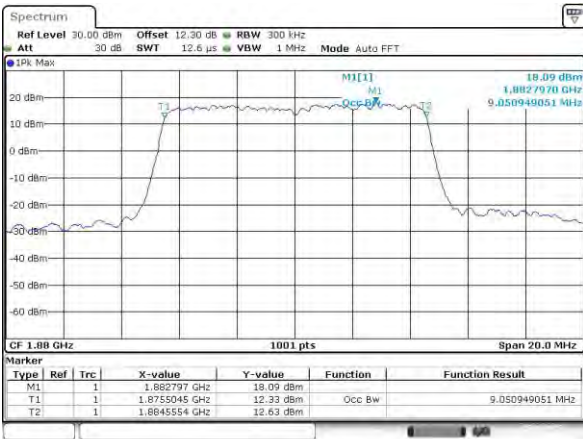
Date: 25 JUN 2015 23:40:10

Lowest Channel / 10MHz / 16QAM



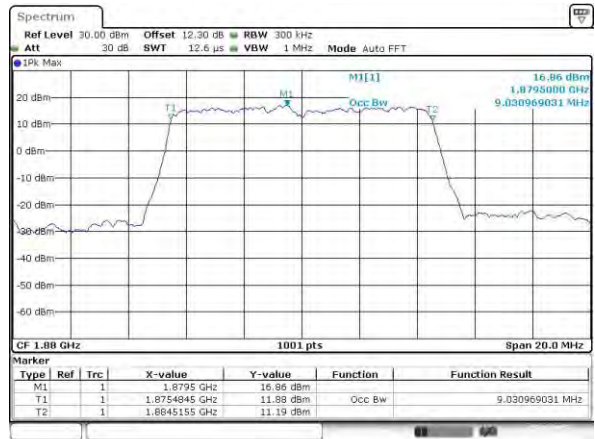
Date: 25 JUN 2015 23:40:21

Middle Channel / 10MHz / QPSK



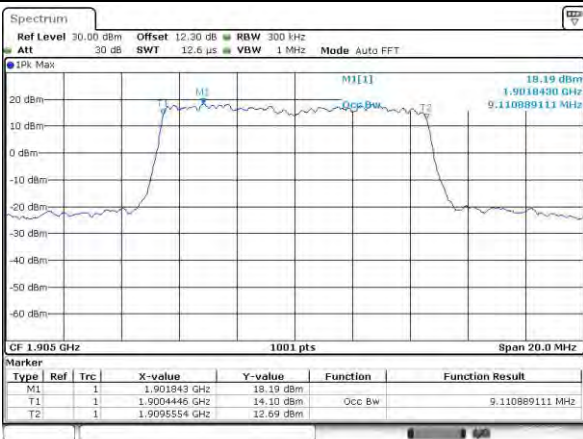
Date: 25 JUN 2015 23:47:57

Middle Channel / 10MHz / 16QAM



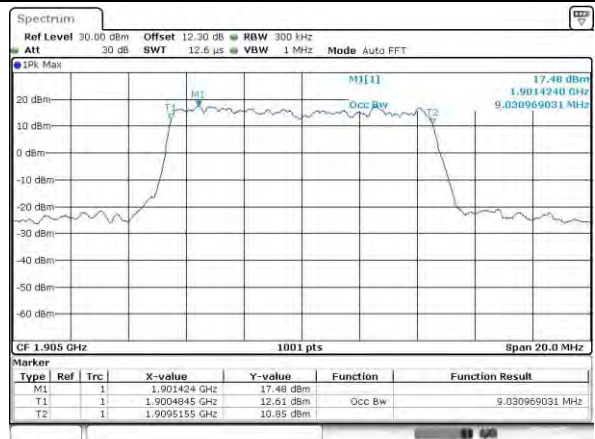
Date: 25 JUN 2015 23:48:08

Highest Channel / 10MHz / QPSK



Date: 25 JUN 2015 23:51:04

Highest Channel / 10MHz / 16QAM

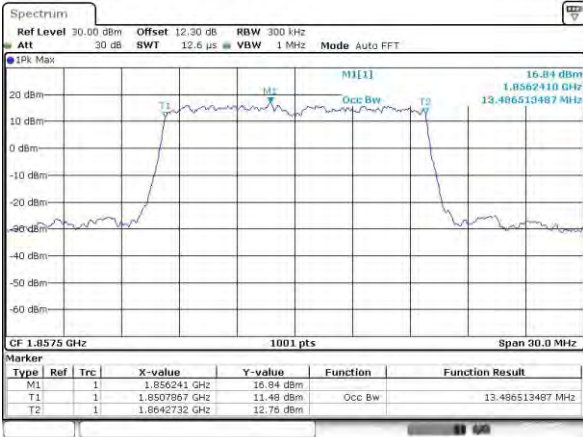


Date: 25 JUN 2015 23:51:15



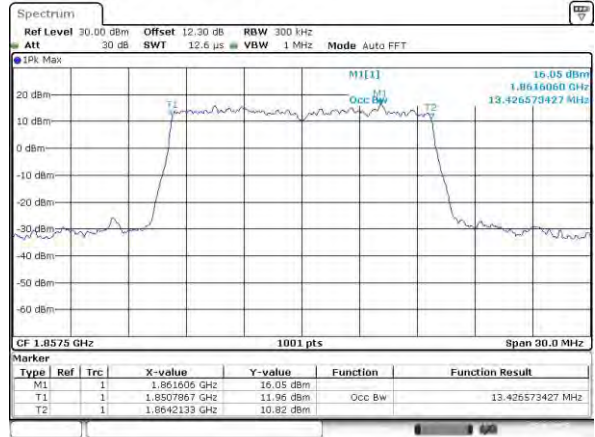
LTE Band 2

Lowest Channel / 15MHz / QPSK



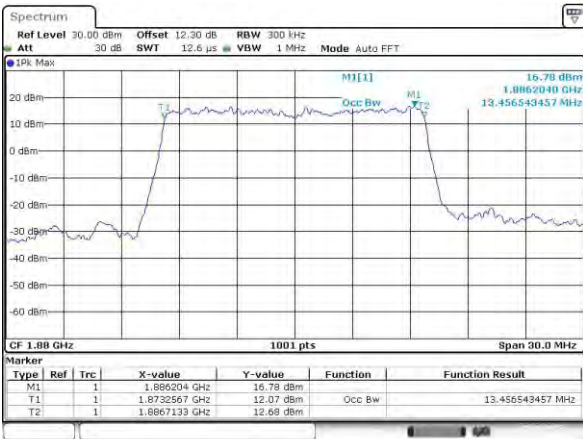
Date: 25 JUN 2015 23:58:52

Lowest Channel / 15MHz / 16QAM



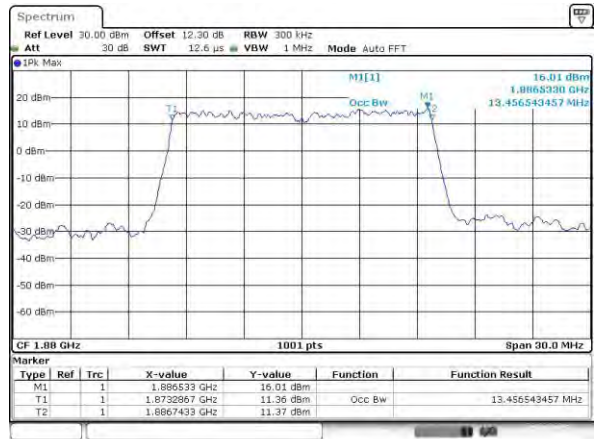
Date: 25 JUN 2015 23:59:03

Middle Channel / 15MHz / QPSK



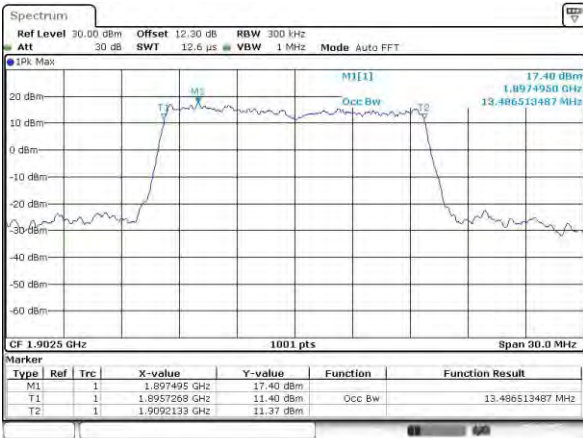
Date: 26 JUN 2015 00:06:44

Middle Channel / 15MHz / 16QAM



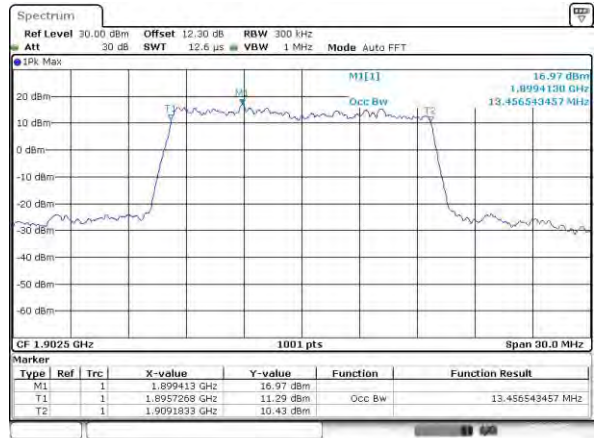
Date: 26 JUN 2015 00:06:56

Highest Channel / 15MHz / QPSK



Date: 26 JUN 2015 00:10:11

Highest Channel / 15MHz / 16QAM

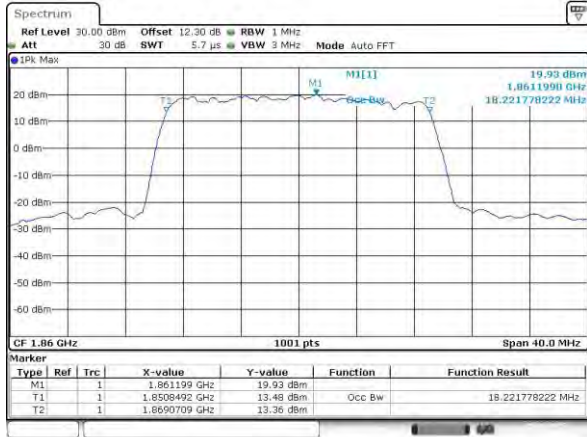


Date: 26 JUN 2015 00:10:14



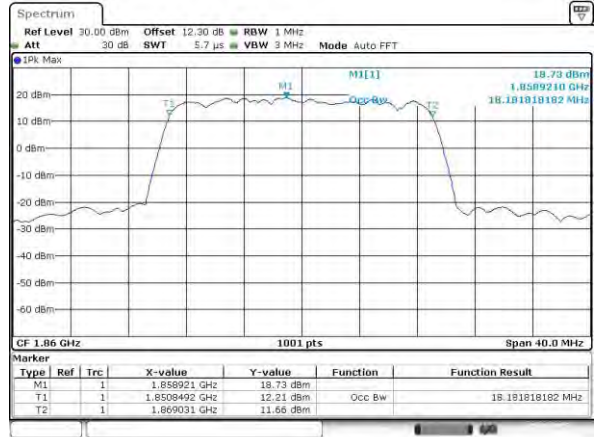
LTE Band 2

Lowest Channel / 20MHz / QPSK



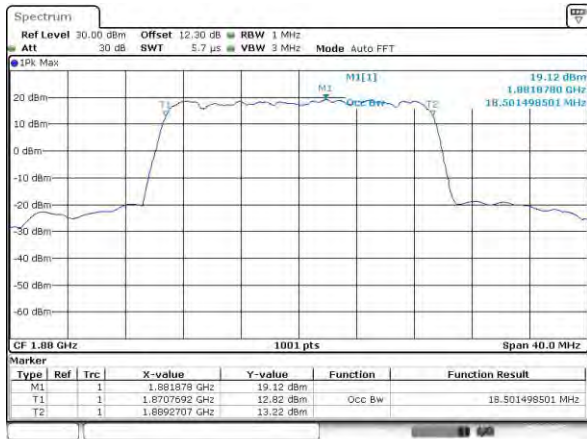
Date: 26 JUN 2015 00:18:17

Lowest Channel / 20MHz / 16QAM



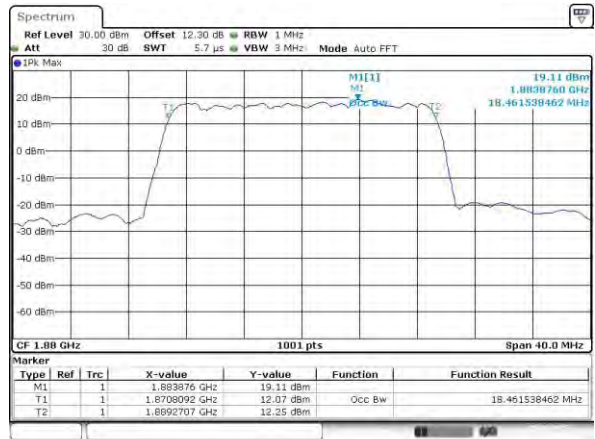
Date: 26 JUN 2015 00:18:32

Middle Channel / 20MHz / QPSK



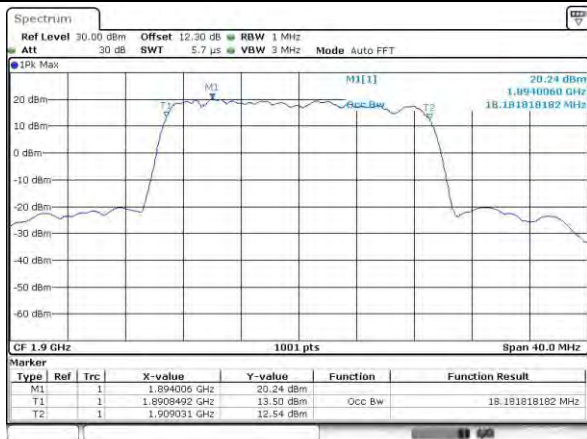
Date: 26 JUN 2015 00:26:49

Middle Channel / 20MHz / 16QAM



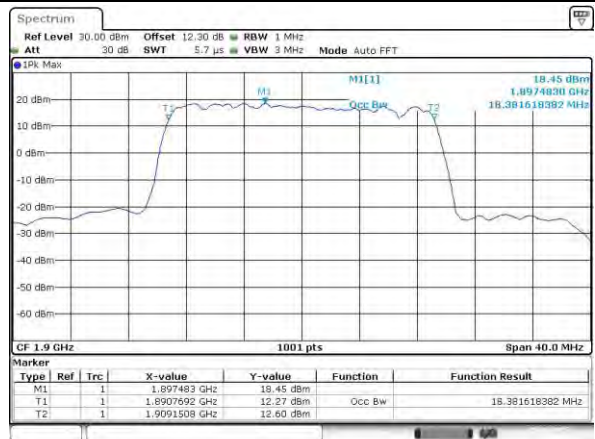
Date: 26 JUN 2015 00:27:06

Highest Channel / 20MHz / QPSK



Date: 26 JUN 2015 00:30:33

Highest Channel / 20MHz / 16QAM



Date: 26 JUN 2015 00:30:50

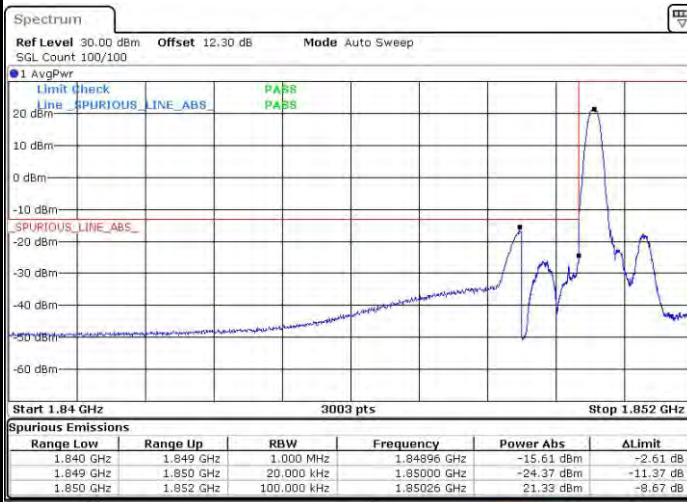


Conducted Band Edge



LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



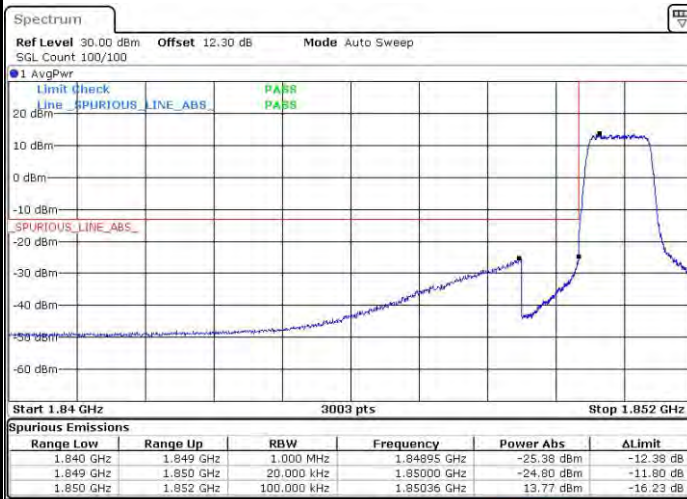
Date: 26 JUN 2015 00:48:30

Highest Band Edge / 1RB



Date: 26 JUN 2015 01:02:19

Lowest Band Edge / Full RB



Date: 26 JUN 2015 00:51:09

Highest Band Edge / Full RB



Date: 26 JUN 2015 01:05:04



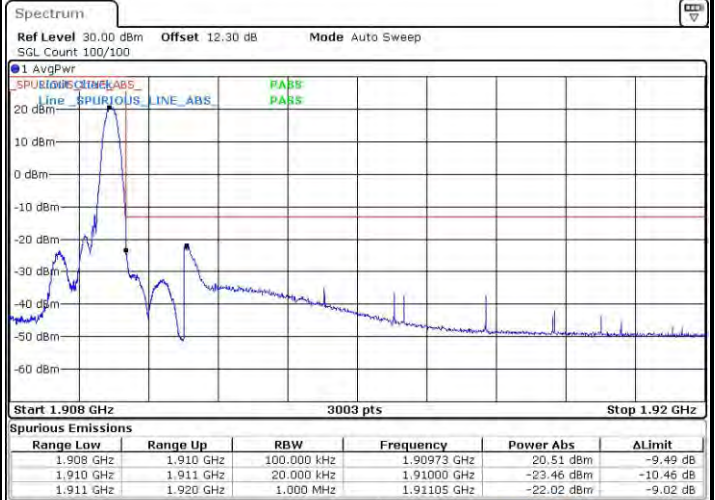
LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 26 JUN 2015 00:49:50

Highest Band Edge / 1 RB



Date: 26 JUN 2015 01:03:41

Lowest Band Edge / Full RB



Date: 26 JUN 2015 00:52:29

Highest Band Edge / Full RB



Date: 26 JUN 2015 01:06:27



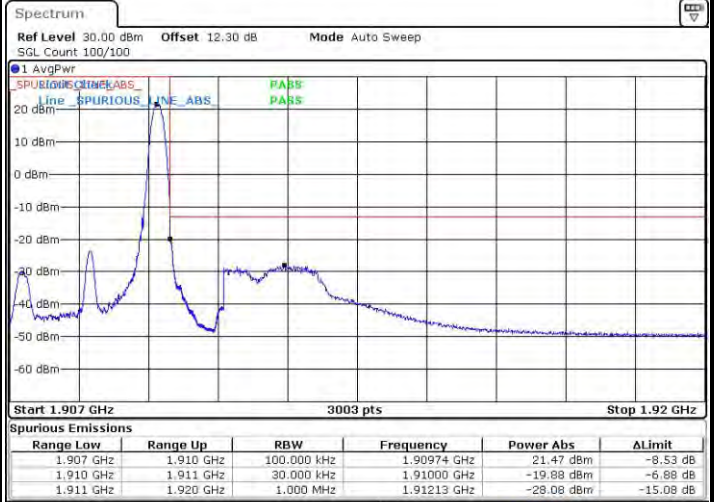
LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB



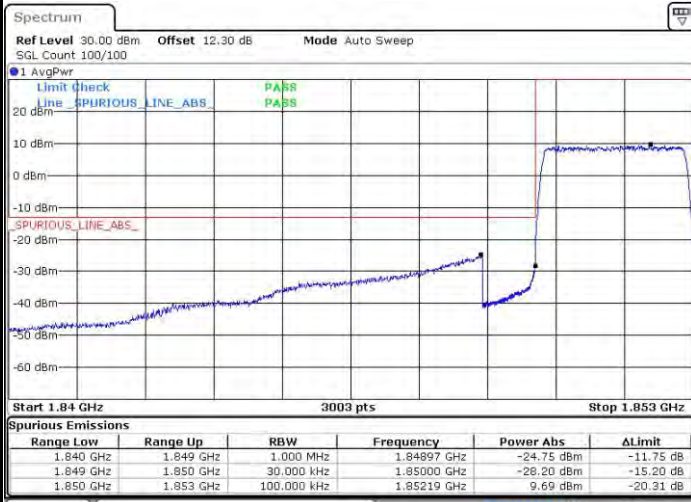
Date: 25 JUN 2015 23:04:33

Highest Band Edge / 1 RB



Date: 25 JUN 2015 23:15:27

Lowest Band Edge / Full RB



Date: 25 JUN 2015 23:06:53

Highest Band Edge / Full RB

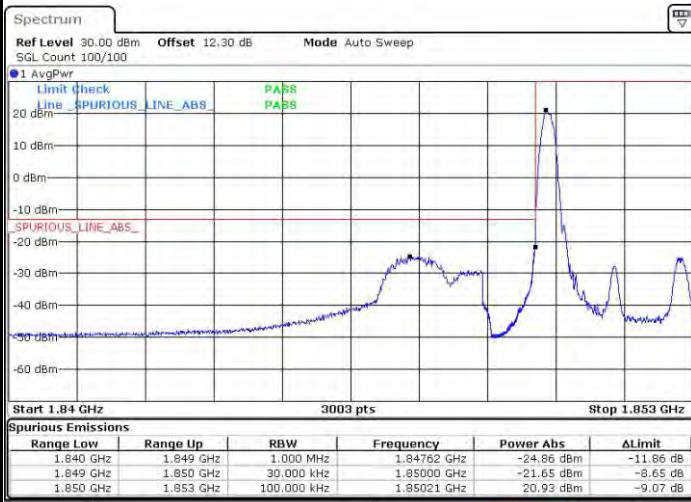


Date: 25 JUN 2015 23:17:47



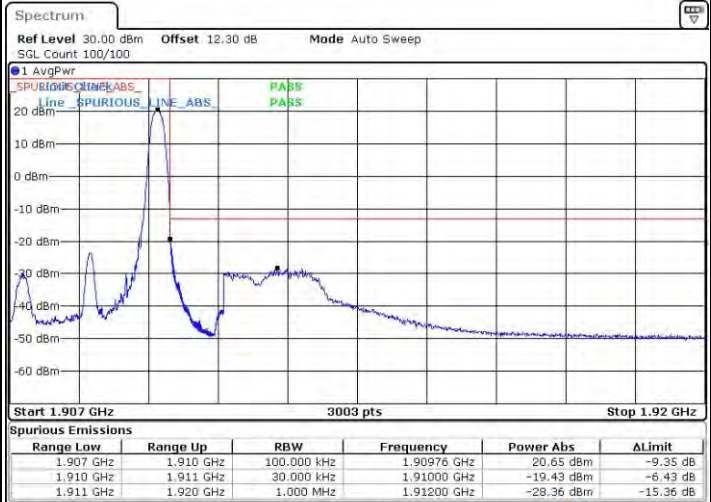
LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



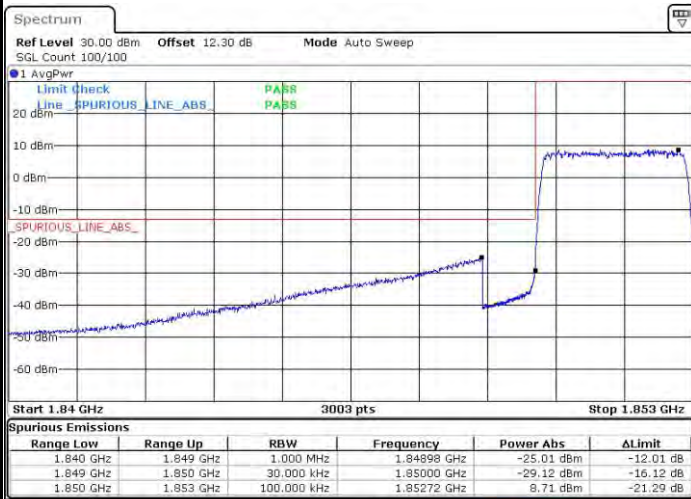
Date: 25 JUN 2015 23:05:43

Highest Band Edge / 1 RB



Date: 25 JUN 2015 23:16:37

Lowest Band Edge / Full RB



Date: 25 JUN 2015 23:08:02

Highest Band Edge / Full RB

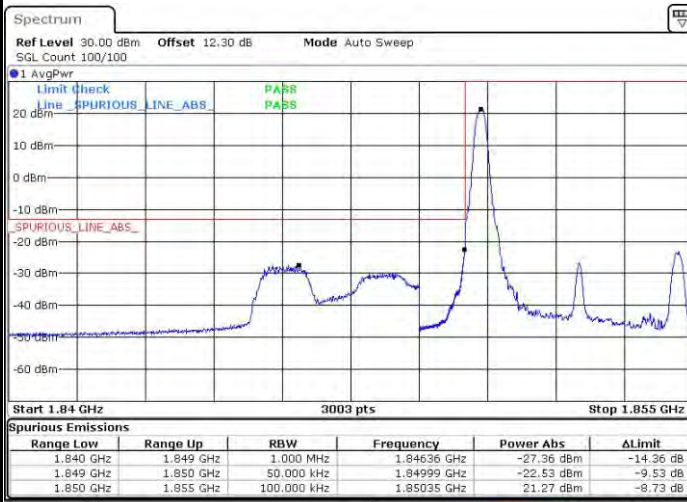


Date: 25 JUN 2015 23:18:57



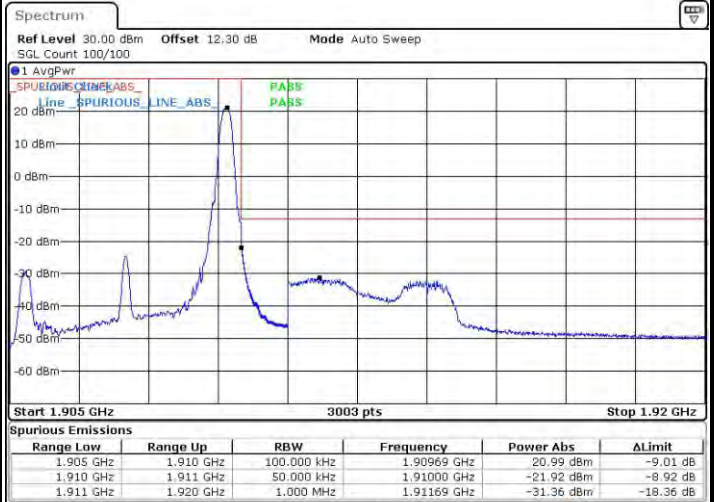
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB



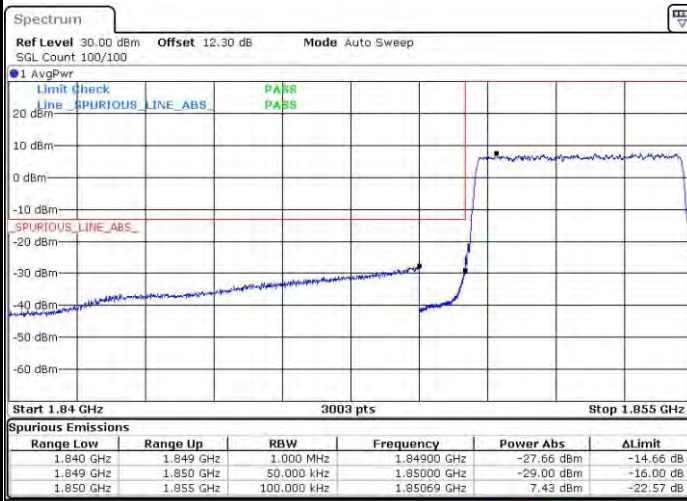
Date: 25 JUN 2015 23:23:14

Highest Band Edge / 1 RB



Date: 25 JUN 2015 23:34:09

Lowest Band Edge / Full RB



Date: 25 JUN 2015 23:25:34

Highest Band Edge / Full RB

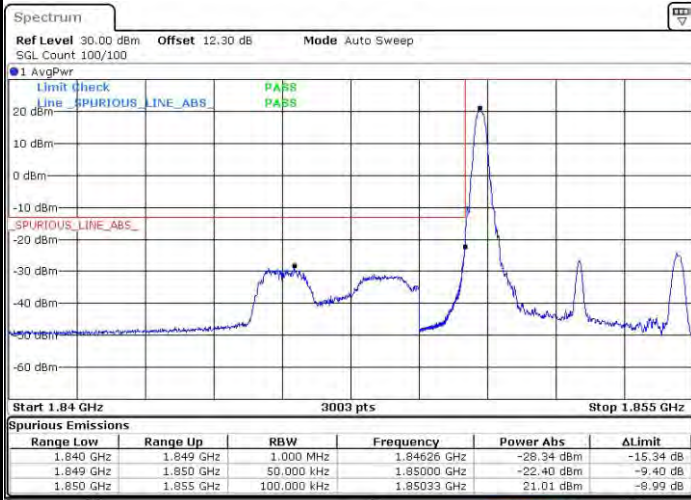


Date: 25 JUN 2015 23:36:28



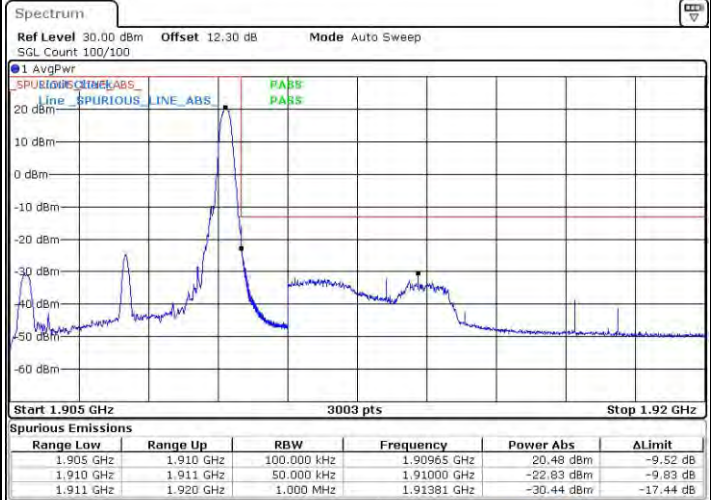
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



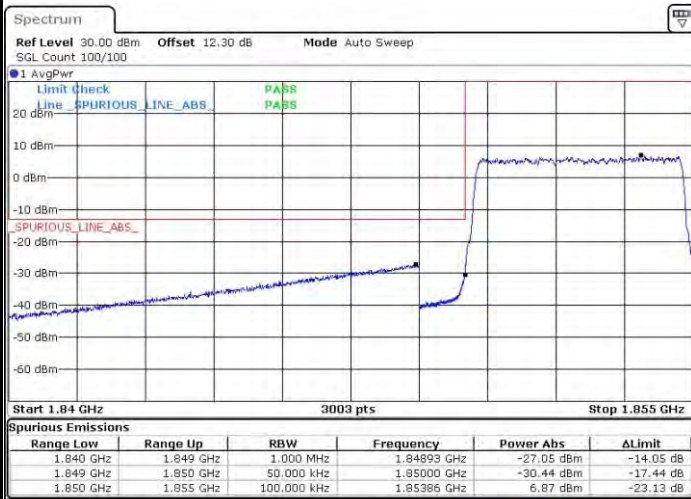
Date: 25 JUN 2015 23:24:24

Highest Band Edge / 1 RB



Date: 25 JUN 2015 23:35:19

Lowest Band Edge / Full RB



Date: 25 JUN 2015 23:26:44

Highest Band Edge / Full RB

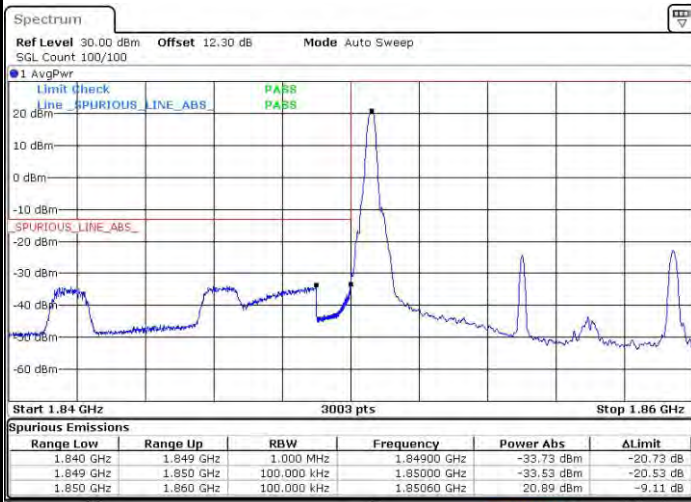


Date: 25 JUN 2015 23:37:38



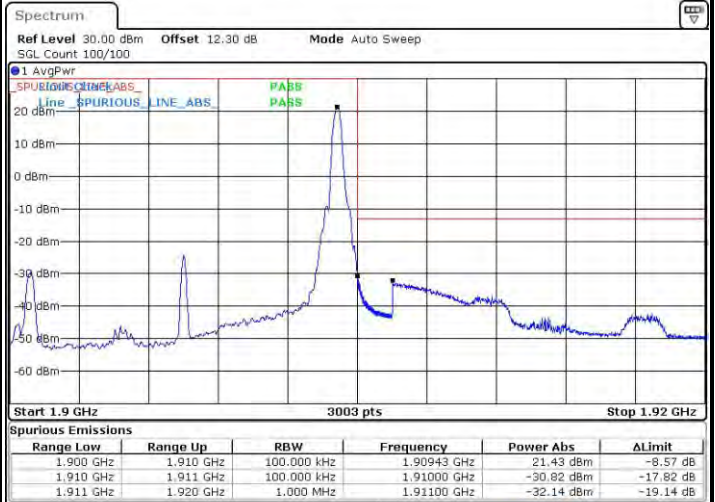
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



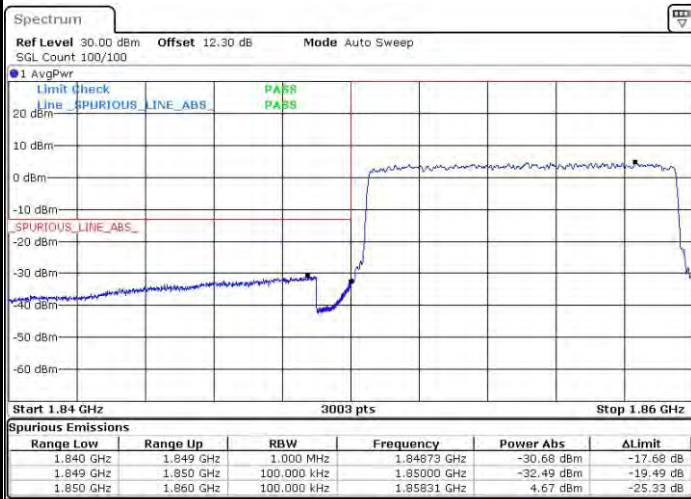
Date: 25 JUN 2015 23:41:55

Highest Band Edge / 1 RB



Date: 25 JUN 2015 23:52:50

Lowest Band Edge / Full RB



Date: 25 JUN 2015 23:44:15

Highest Band Edge / Full RB

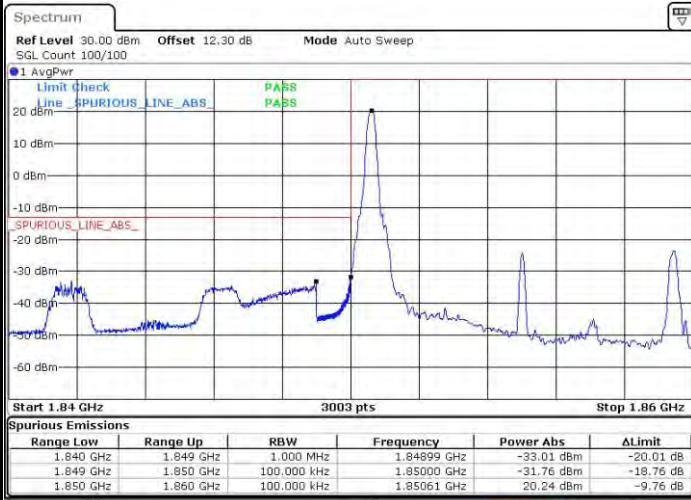


Date: 25 JUN 2015 23:55:09



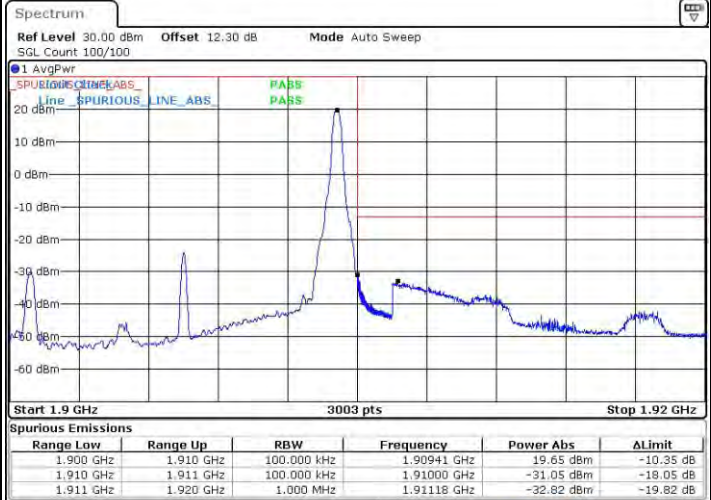
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



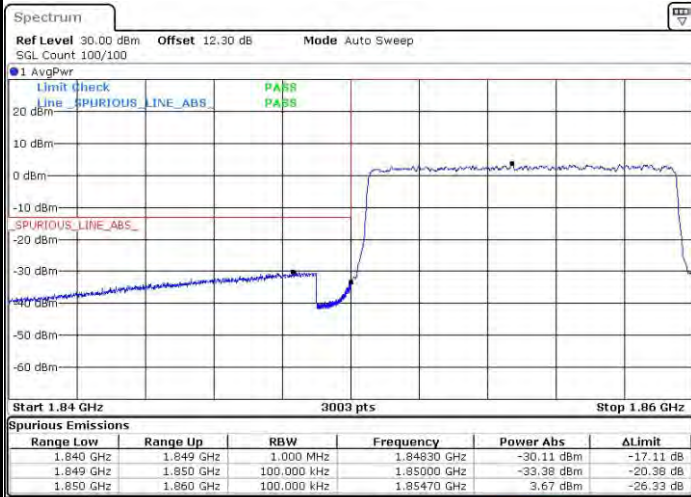
Date: 25 JUN 2015 23:43:05

Highest Band Edge / 1 RB



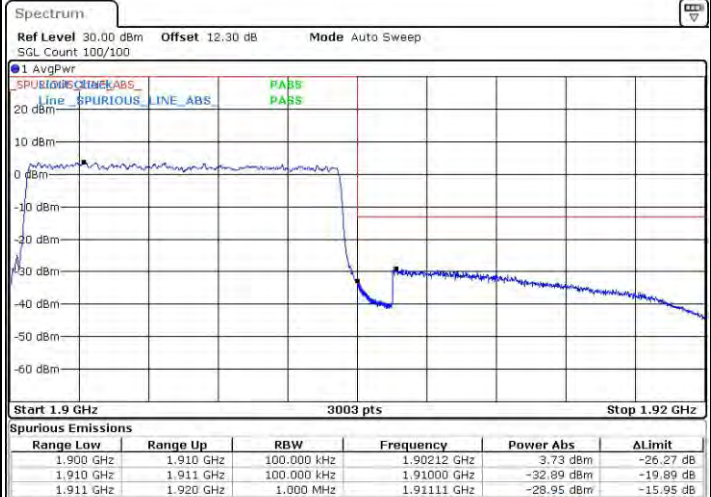
Date: 25 JUN 2015 23:53:58

Lowest Band Edge / Full RB



Date: 25 JUN 2015 23:45:25

Highest Band Edge / Full RB

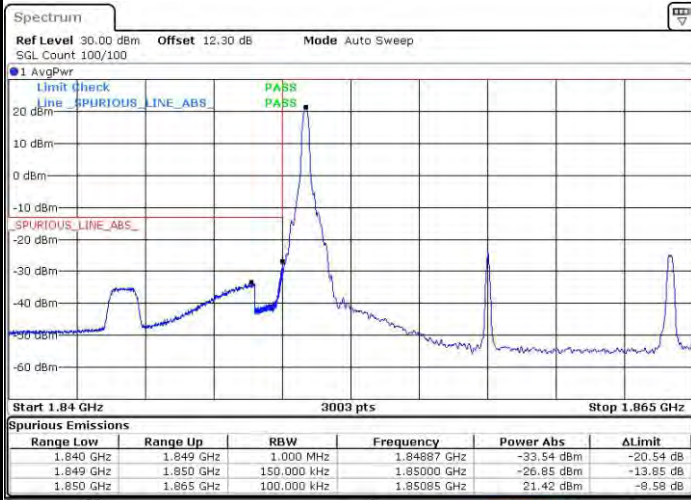


Date: 25 JUN 2015 23:56:19



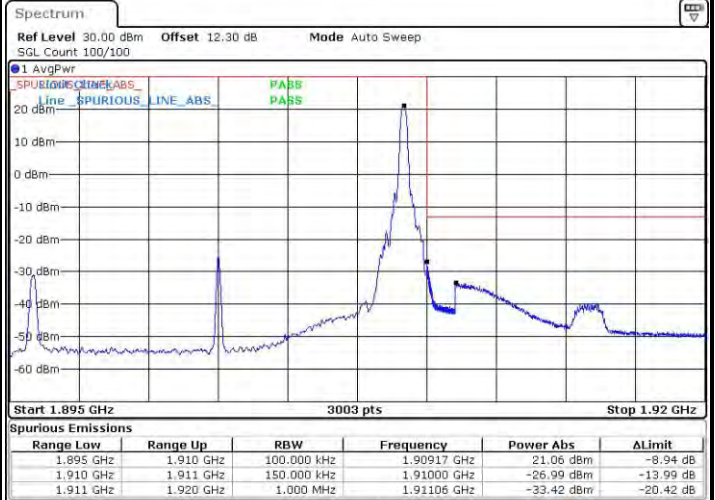
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



Date: 26 JUN 2015 00:00:37

Highest Band Edge / 1 RB



Date: 26 JUN 2015 00:11:56

Lowest Band Edge / Full RB



Date: 26 JUN 2015 00:02:59

Highest Band Edge / Full RB

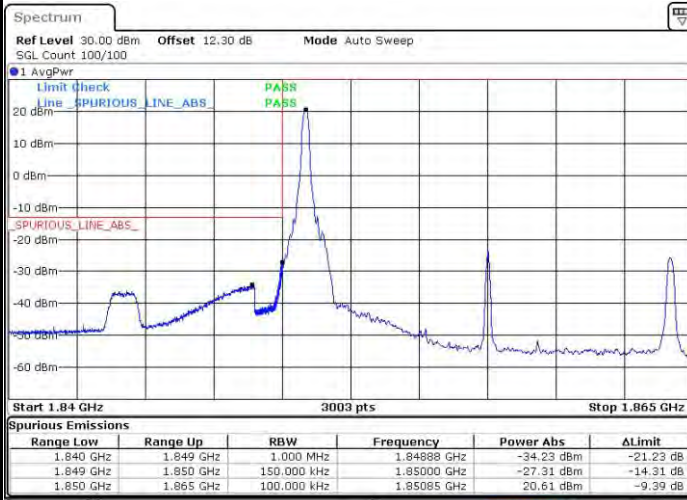


Date: 26 JUN 2015 00:14:21



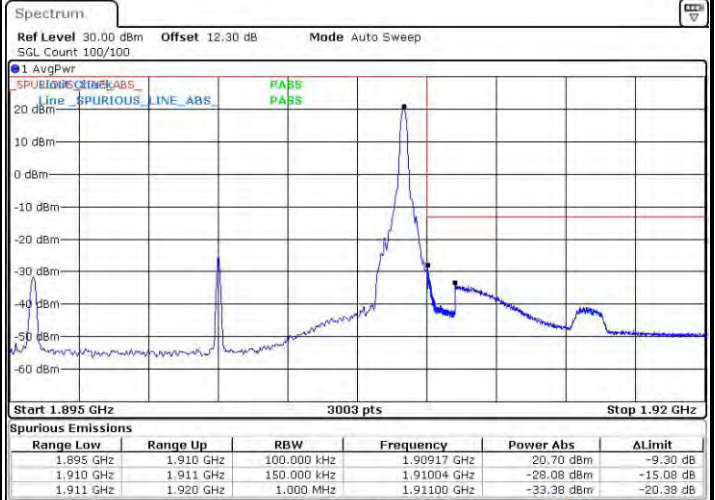
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



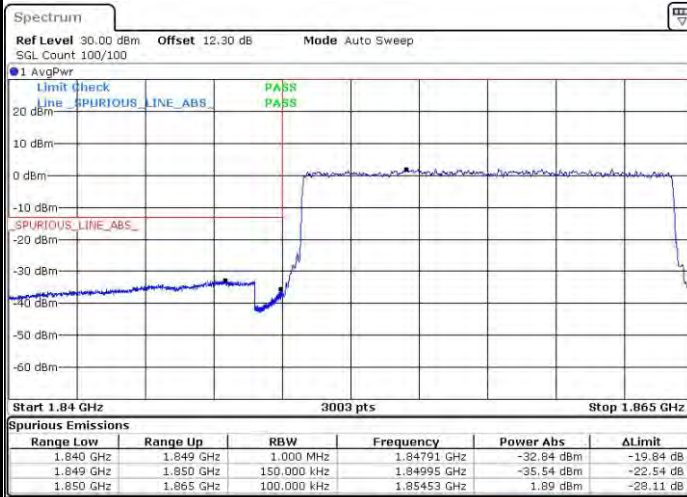
Date: 26 JUN 2015 00:01:48

Highest Band Edge / 1 RB



Date: 26 JUN 2015 00:13:08

Lowest Band Edge / Full RB



Date: 26 JUN 2015 00:04:09

Highest Band Edge / Full RB

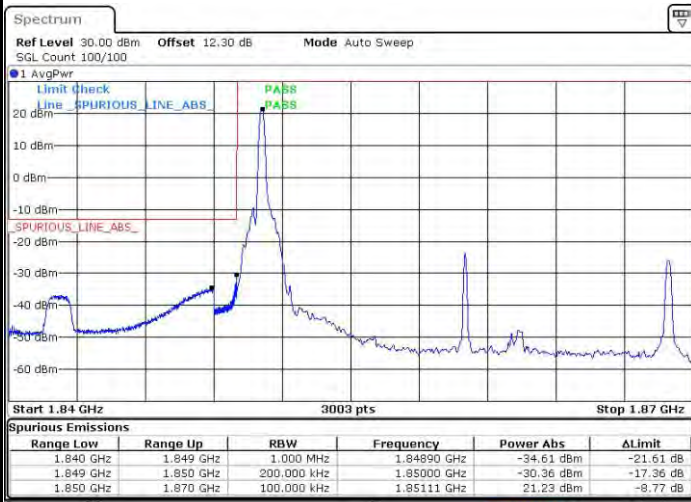


Date: 26 JUN 2015 00:15:34



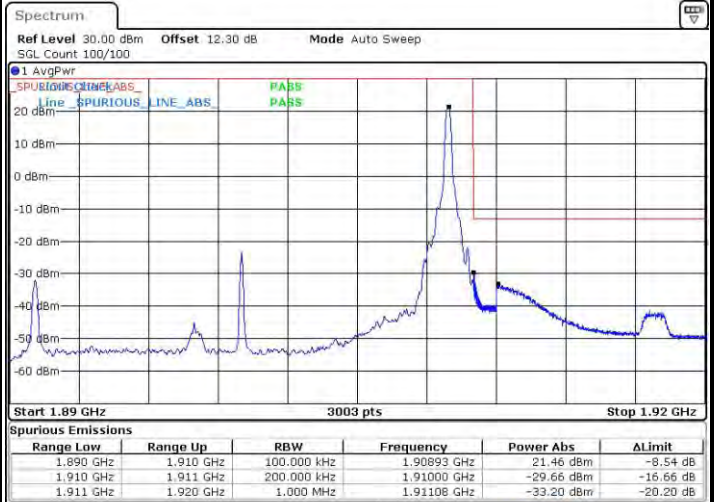
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



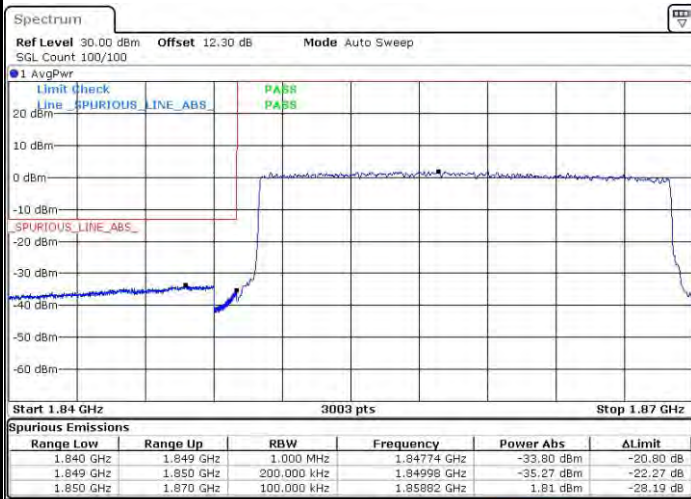
Date: 26 JUN 2015 00:20:18

Highest Band Edge / 1 RB



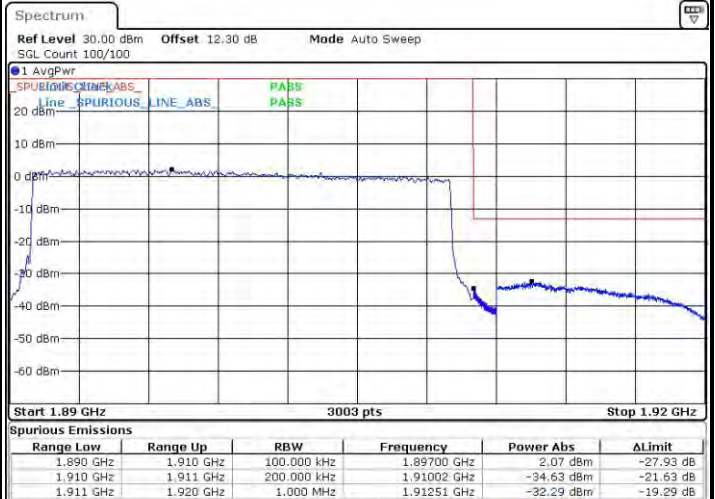
Date: 26 JUN 2015 00:32:45

Lowest Band Edge / Full RB



Date: 26 JUN 2015 00:22:47

Highest Band Edge / Full RB

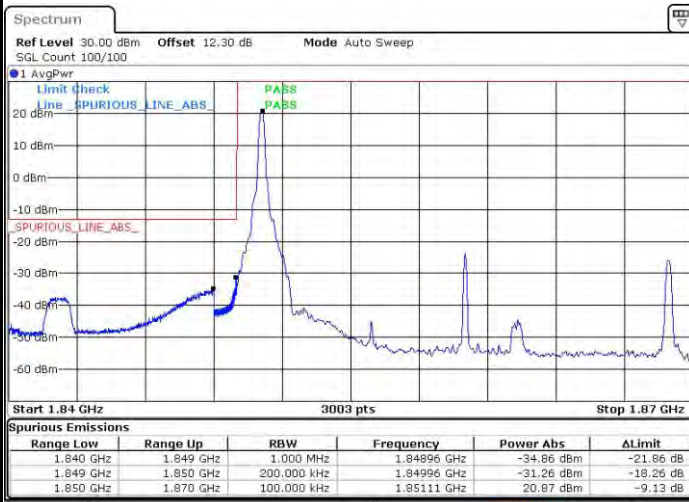


Date: 26 JUN 2015 00:35:20



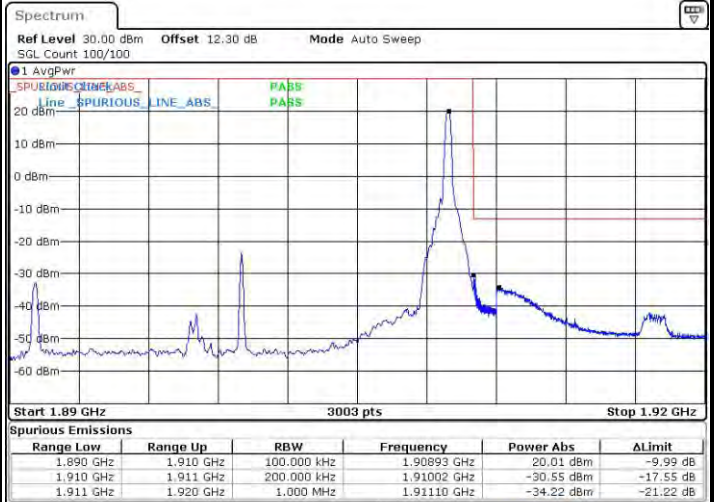
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



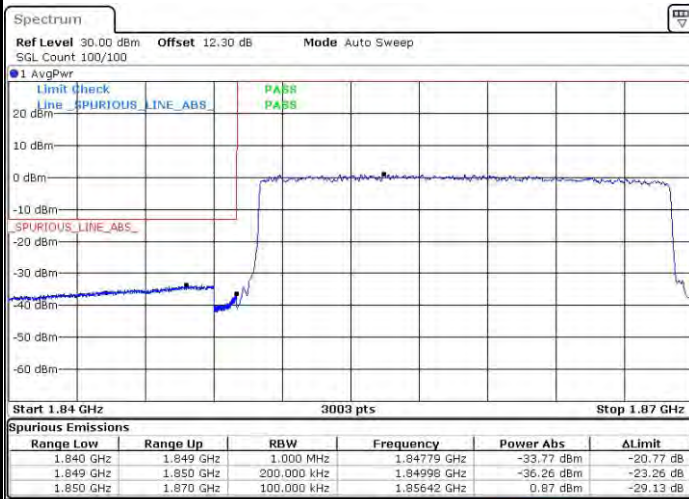
Date: 26 JUN 2015 00:21:32

Highest Band Edge / 1 RB



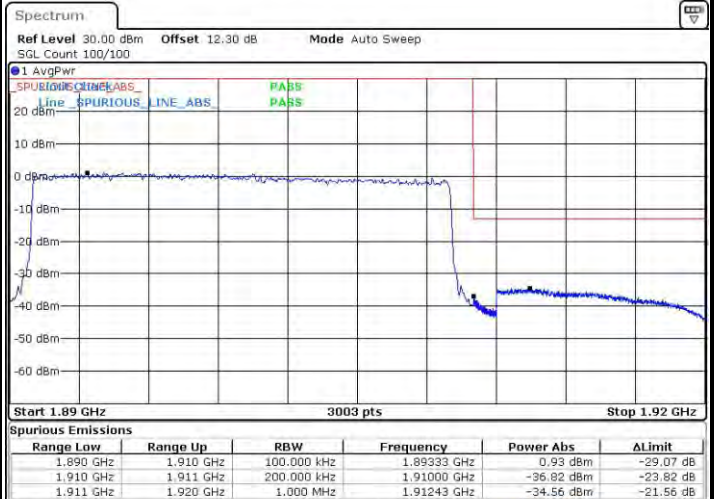
Date: 26 JUN 2015 00:34:02

Lowest Band Edge / Full RB



Date: 26 JUN 2015 00:24:01

Highest Band Edge / Full RB



Date: 26 JUN 2015 00:36:37



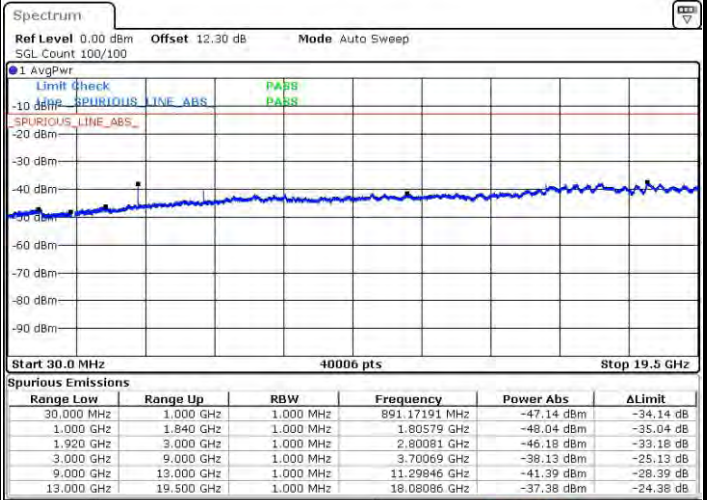
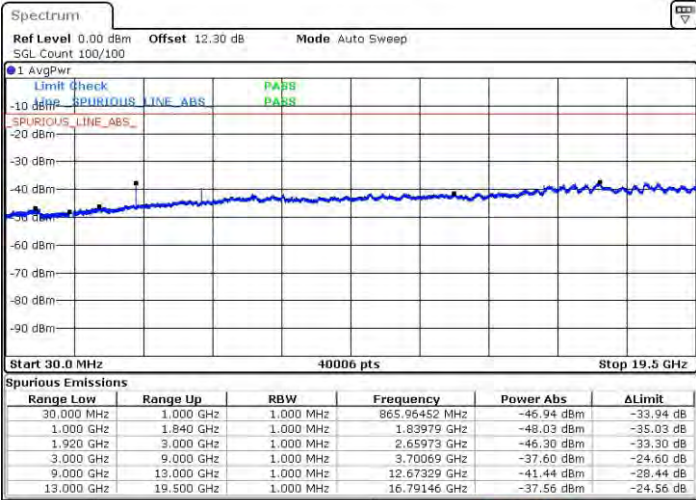
Conducted Spurious Emission



LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

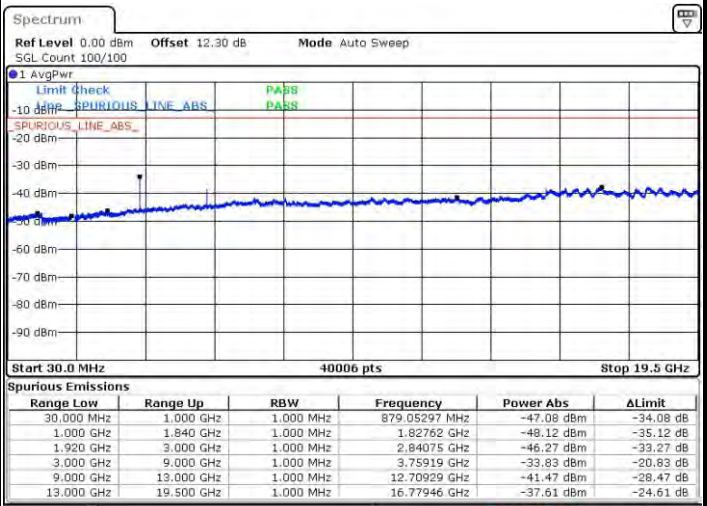
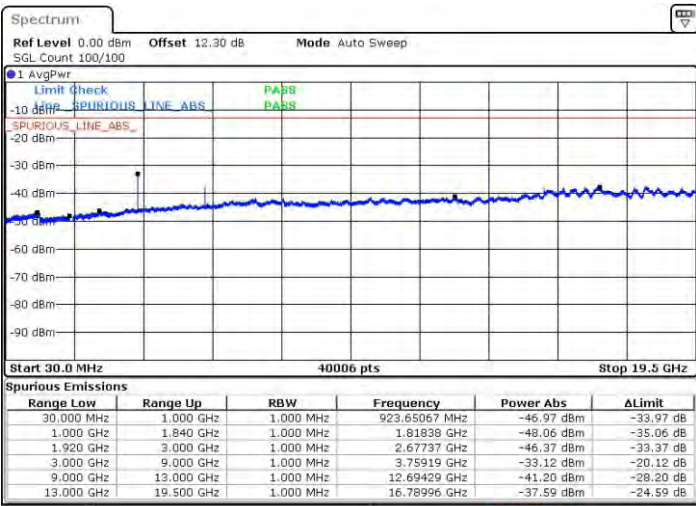


Date: 26 JUN 2015 00:53:50

Date: 26 JUN 2015 00:55:10

Middle Channel / QPSK

Middle Channel / 16QAM



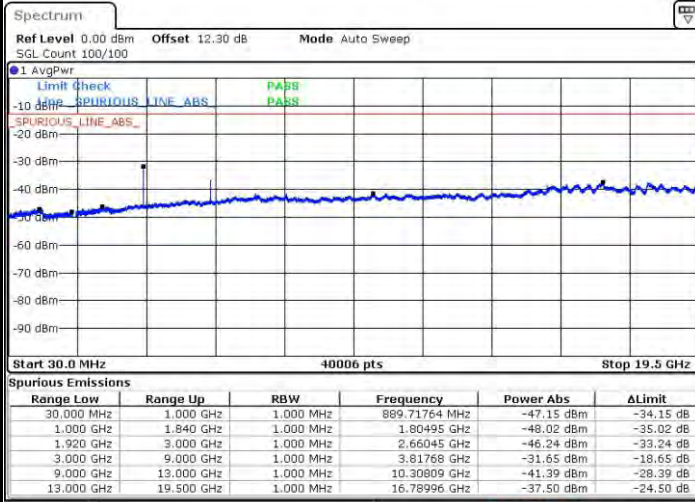
Date: 26 JUN 2015 00:58:01

Date: 26 JUN 2015 00:59:22



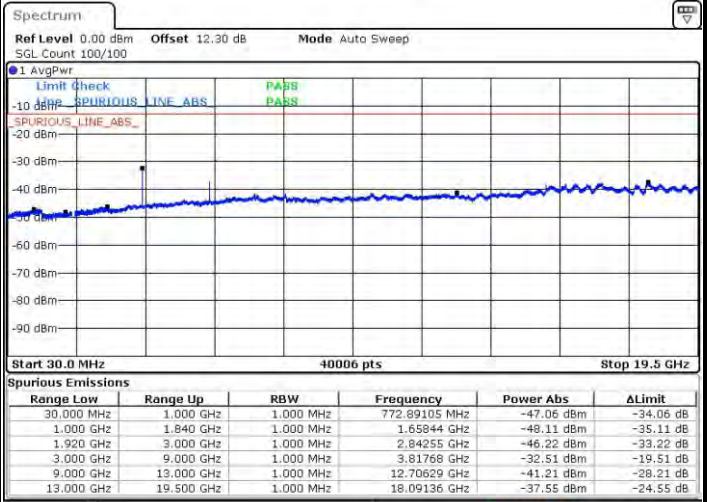
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 26 JUN 2015 01:07:51

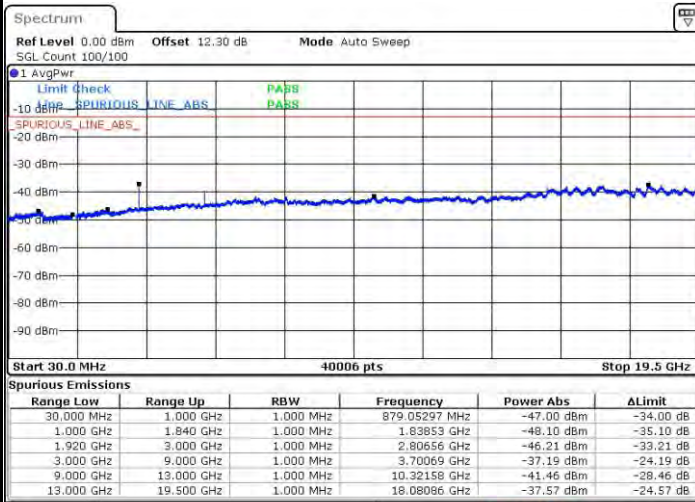
Highest Channel / 16QAM



Date: 26 JUN 2015 01:09:15

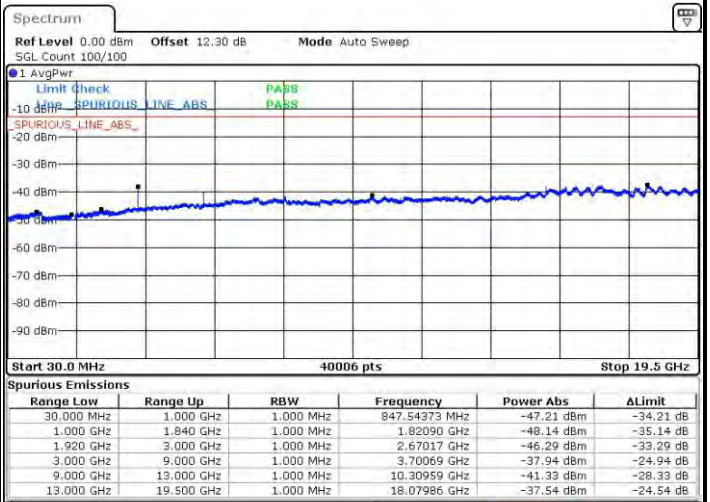
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 25 JUN 2015 23:09:13

Lowest Channel / 16QAM



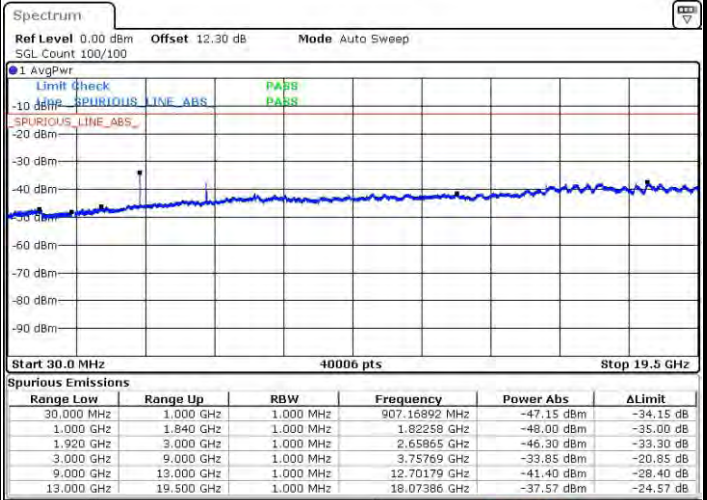
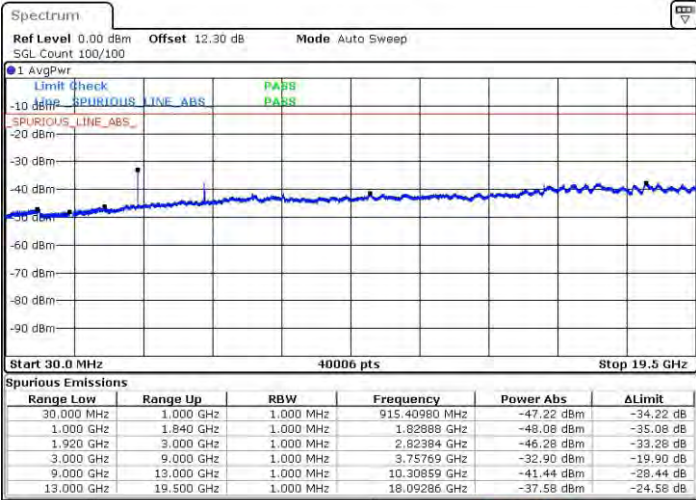
Date: 25 JUN 2015 23:10:23



LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

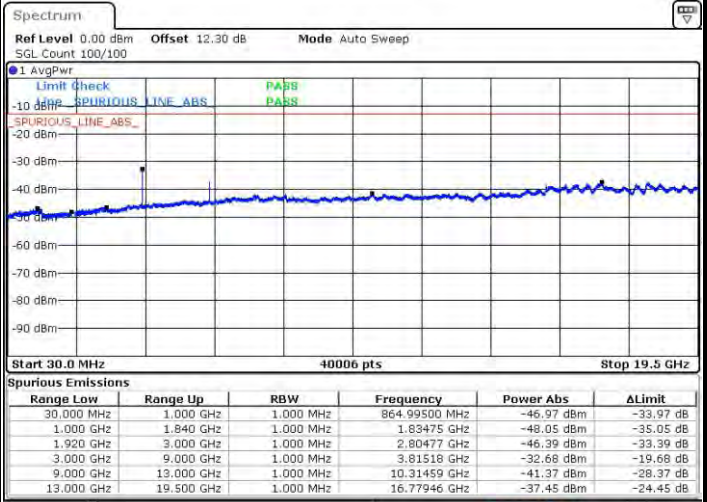
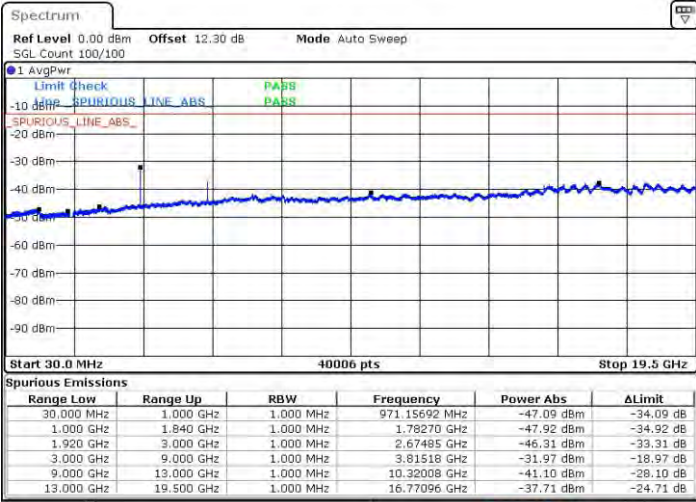


Date: 25 JUN 2015 23:12:20

Date: 25 JUN 2015 23:13:31

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 JUN 2015 23:20:07

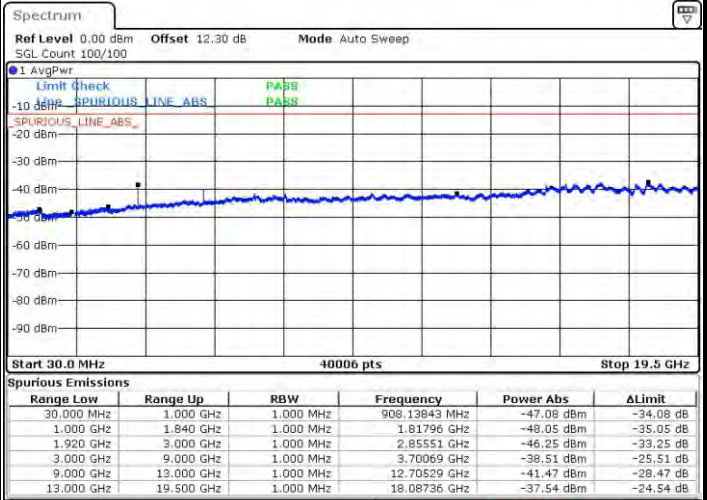
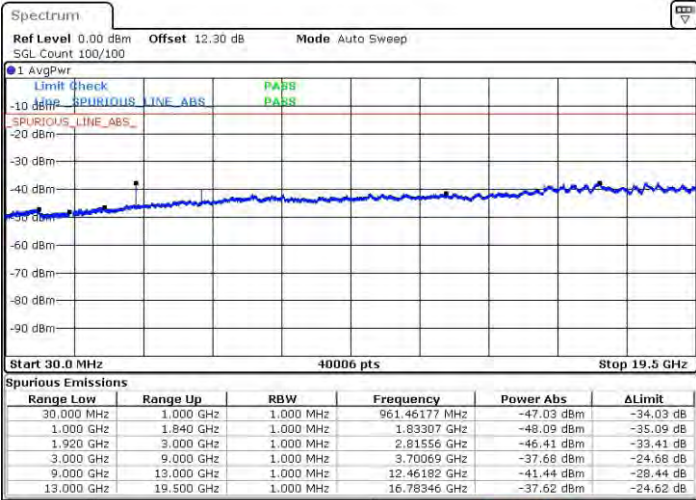
Date: 25 JUN 2015 23:21:18



LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

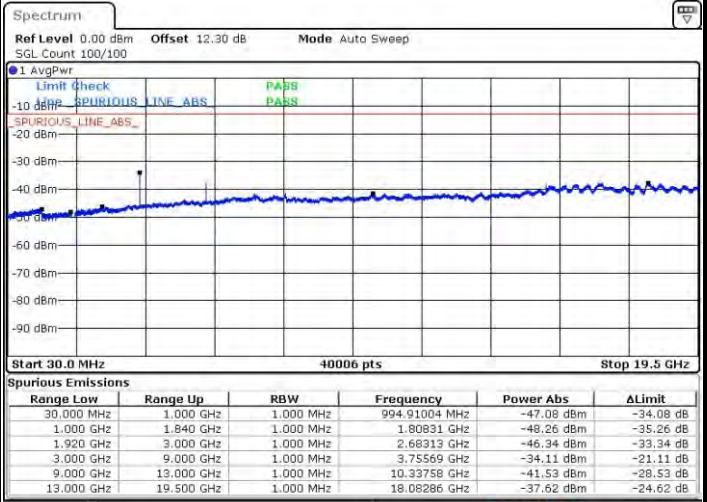
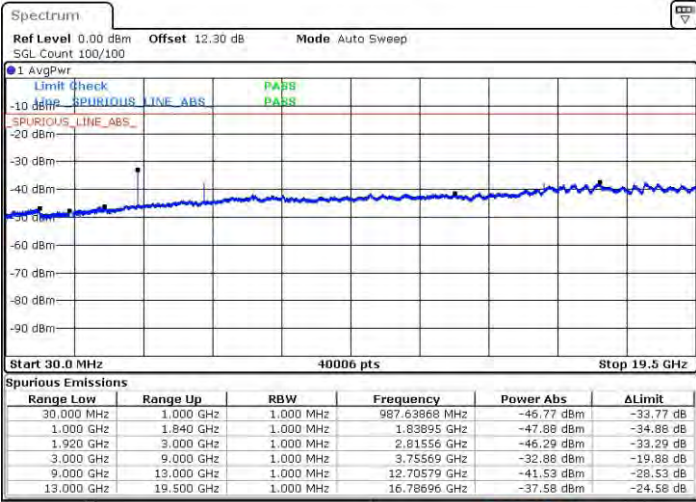


Date: 25 JUN 2015 23:27:55

Date: 25 JUN 2015 23:29:05

Middle Channel / QPSK

Middle Channel / 16QAM



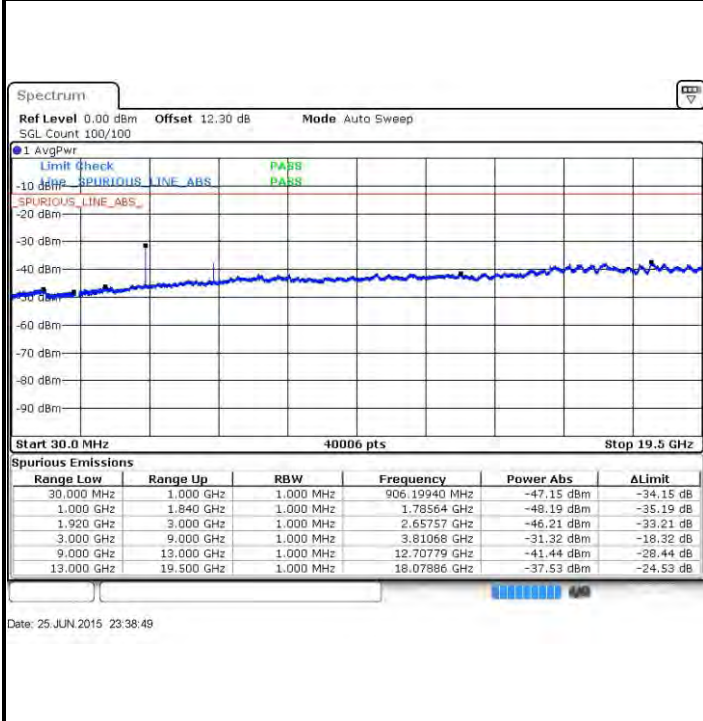
Date: 25 JUN 2015 23:31:02

Date: 25 JUN 2015 23:32:12

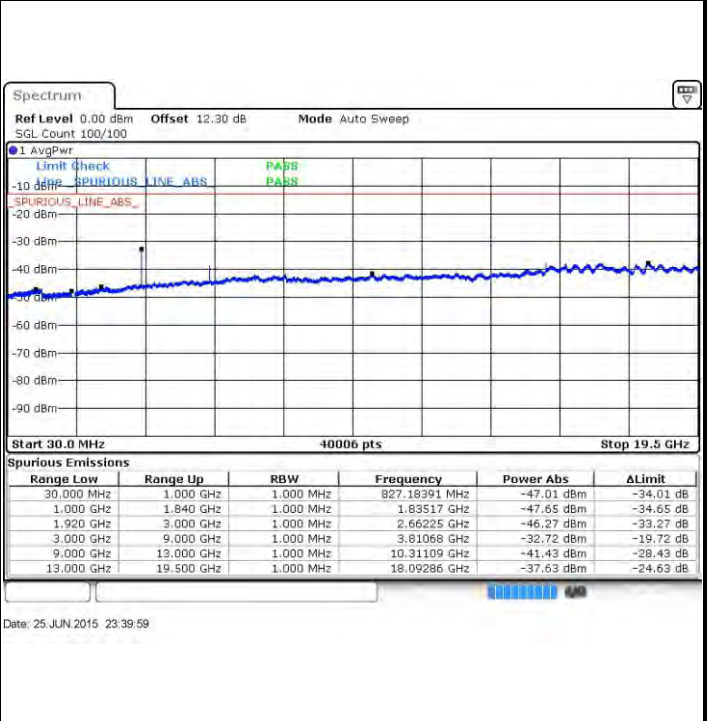


LTE Band 2 / 5MHz

Highest Channel / QPSK

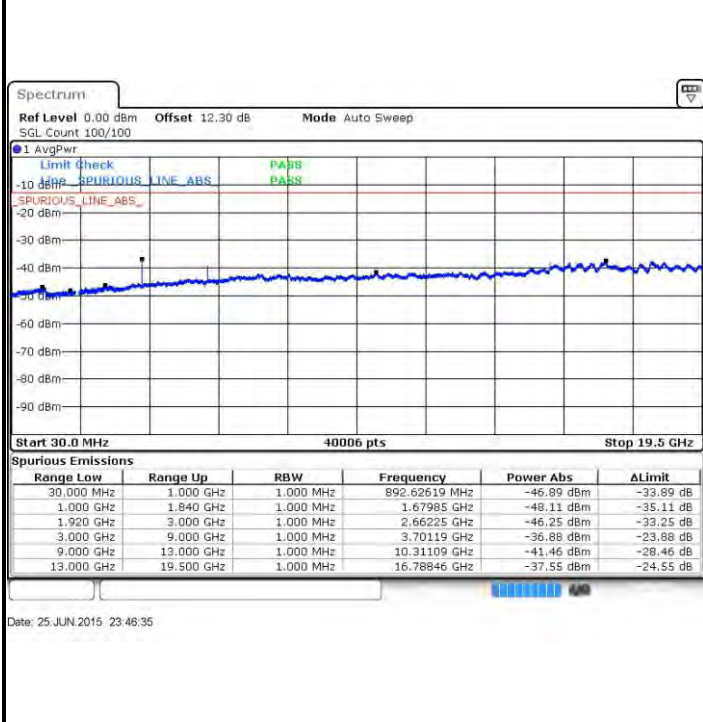


Highest Channel / 16QAM

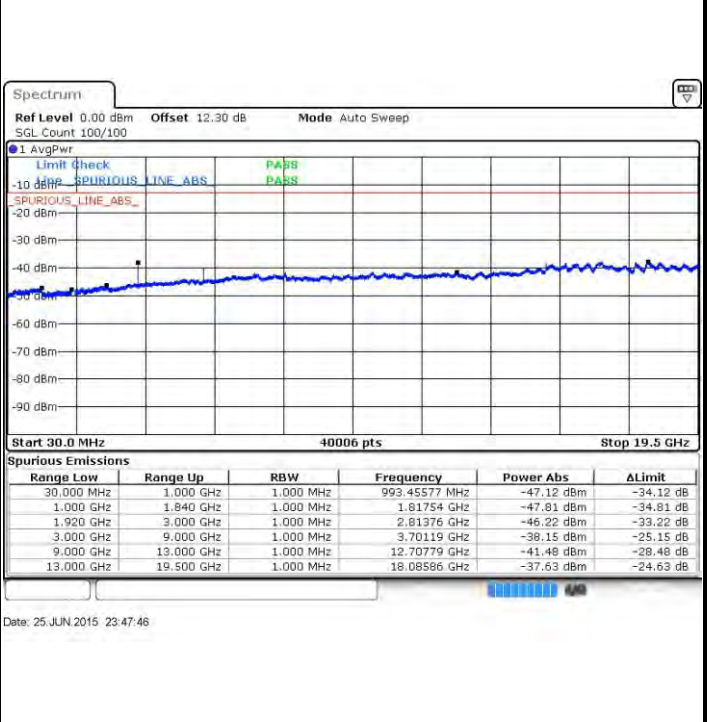


LTE Band 2 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

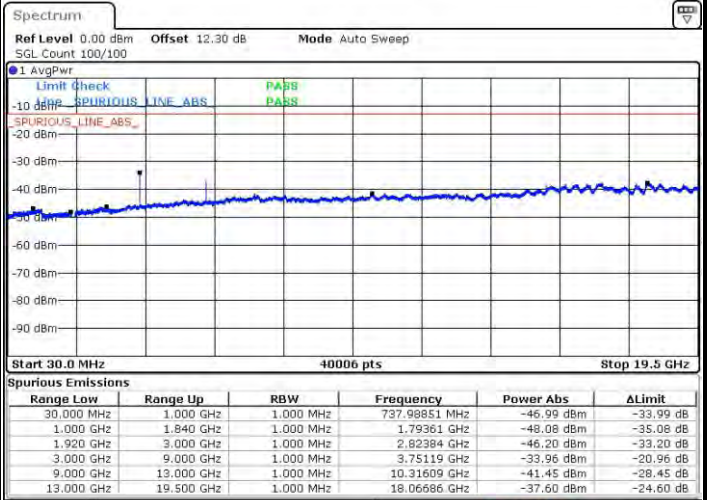
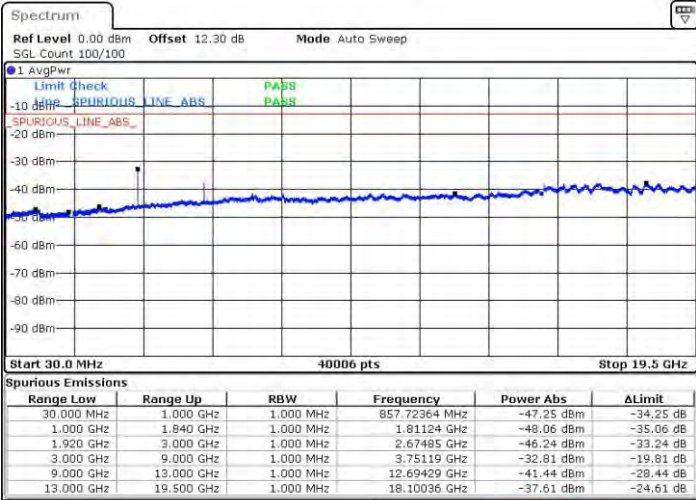




LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

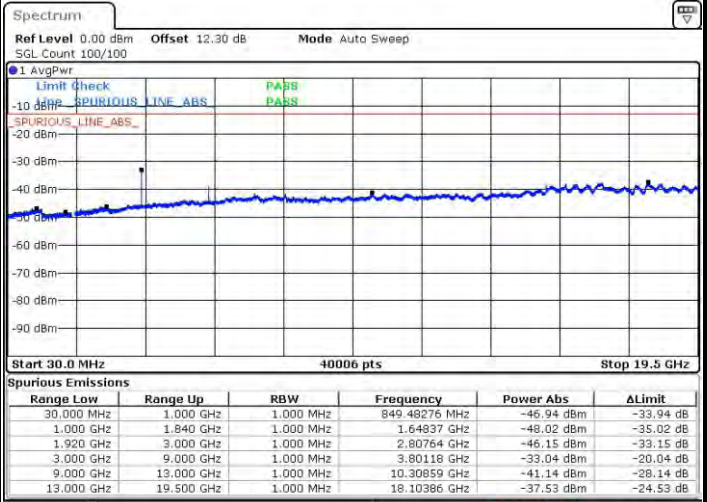
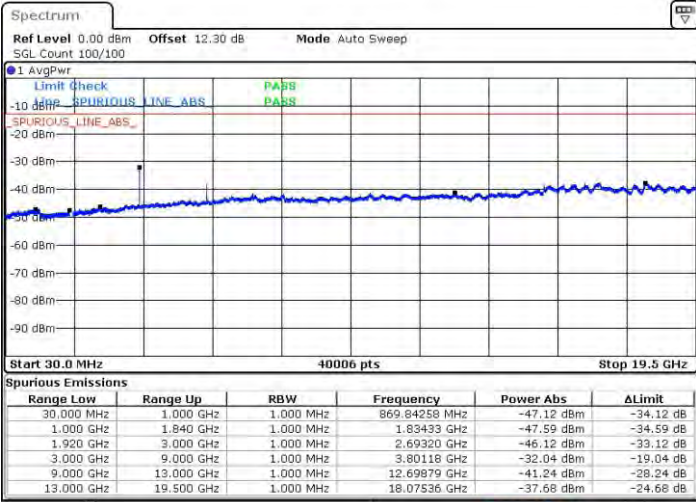


Date: 25 JUN 2015 23:49:43

Date: 25 JUN 2015 23:50:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 JUN 2015 23:57:30

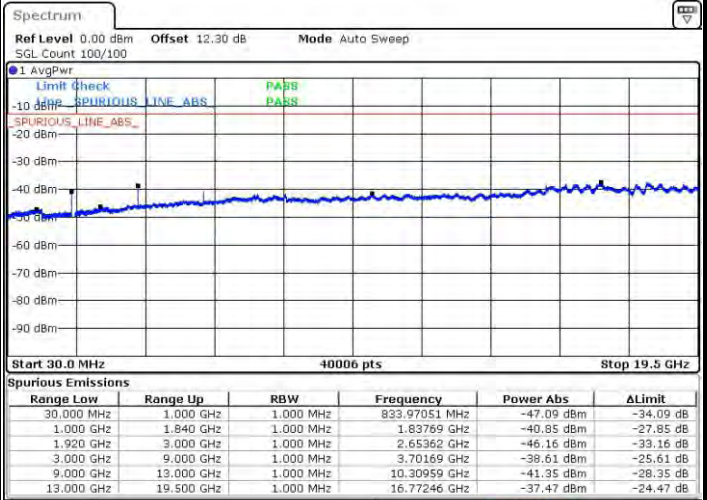
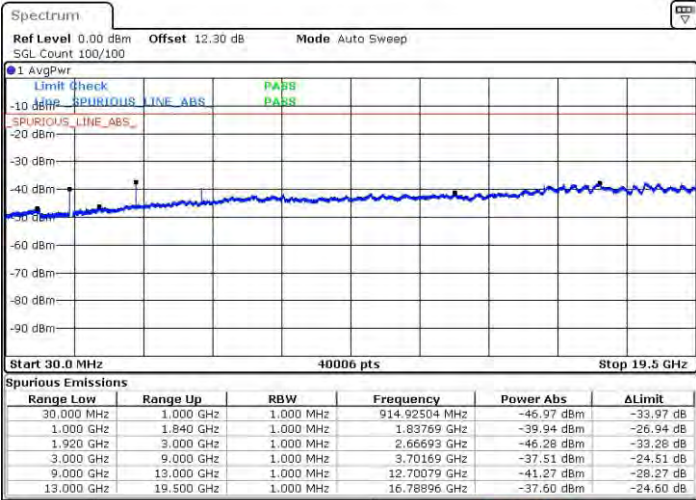
Date: 25 JUN 2015 23:58:40



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

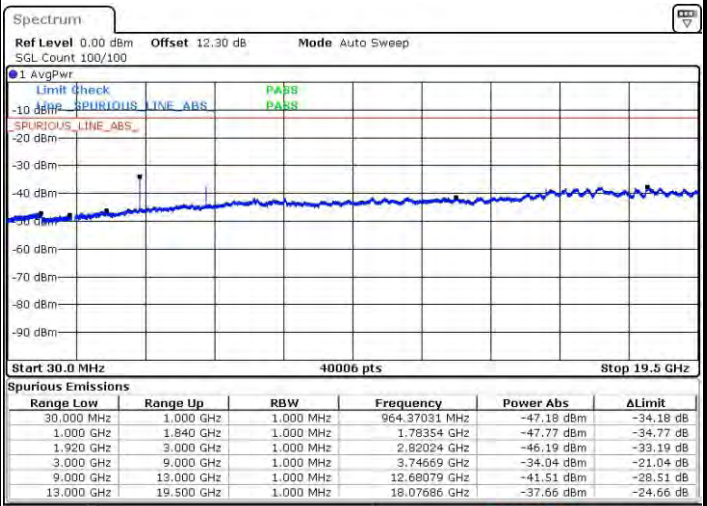
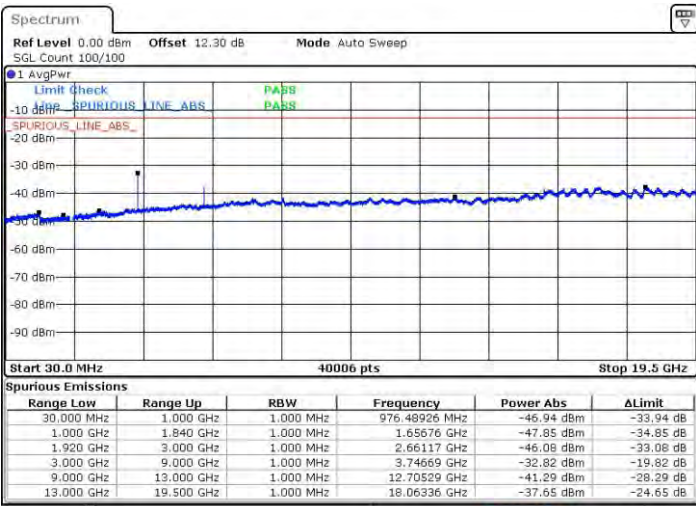


Date: 26 JUN 2015 00 05:20

Date: 26 JUN 2015 00 08:32

Middle Channel / QPSK

Middle Channel / 16QAM



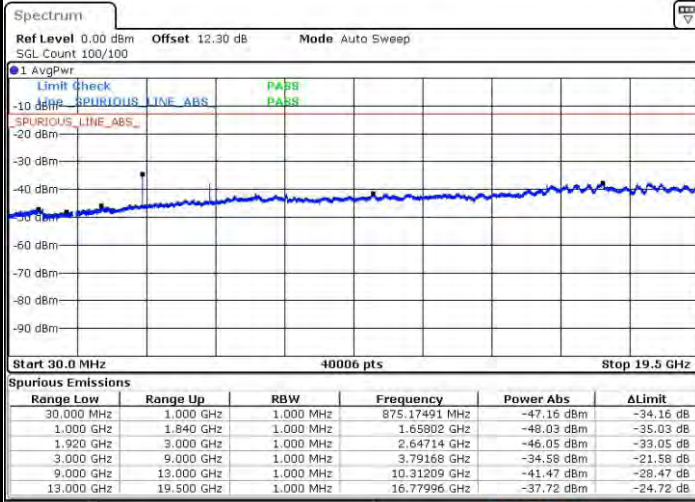
Date: 26 JUN 2015 00 08:36

Date: 26 JUN 2015 00 09:48



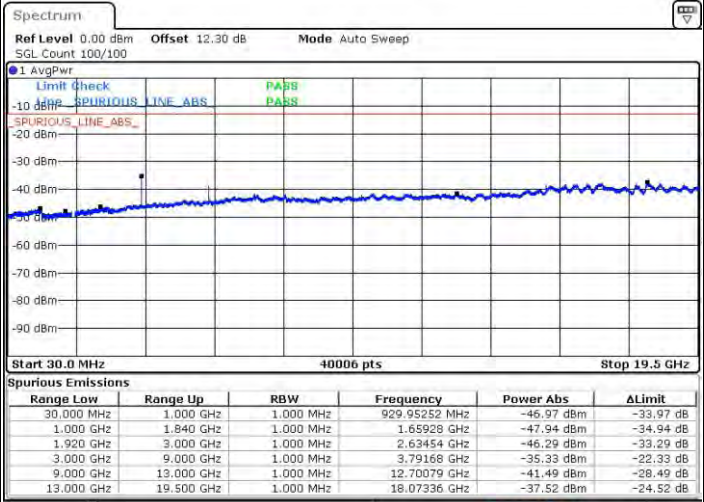
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 26 JUN 2015 00:16:48

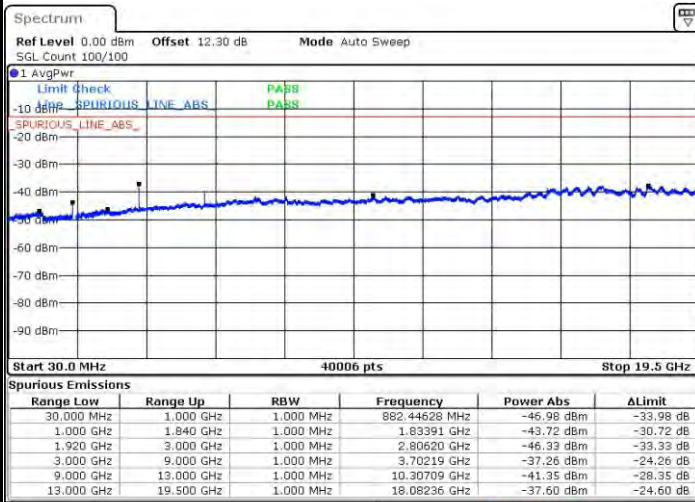
Highest Channel / 16QAM



Date: 26 JUN 2015 00:18:02

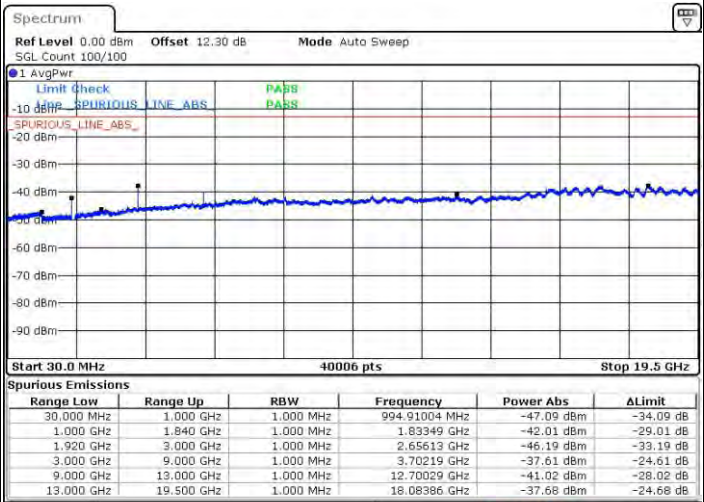
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 26 JUN 2015 00:25:17

Lowest Channel / 16QAM



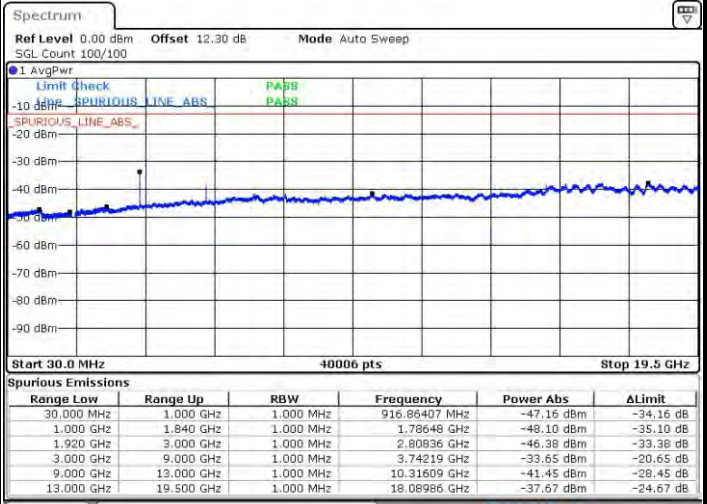
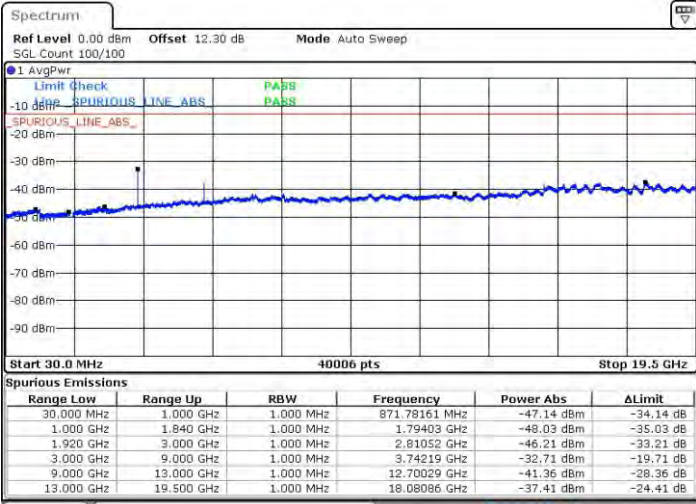
Date: 26 JUN 2015 00:26:33



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

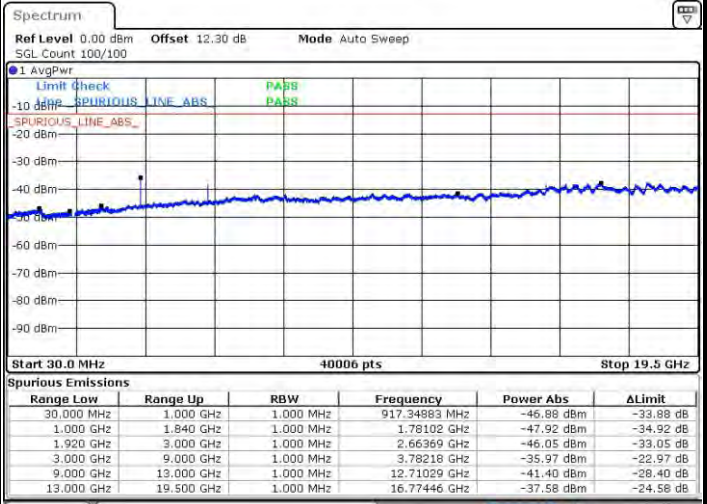
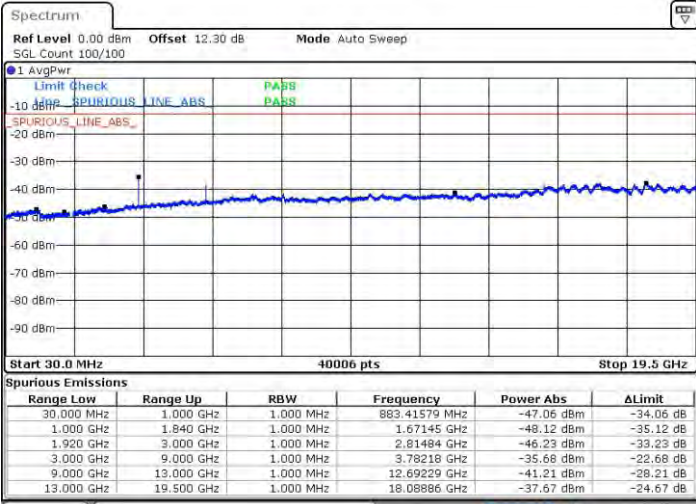


Date: 26 JUN 2015 00:28:59

Date: 26 JUN 2015 00:30:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 JUN 2015 00:37:56

Date: 26 JUN 2015 00:39:14



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.