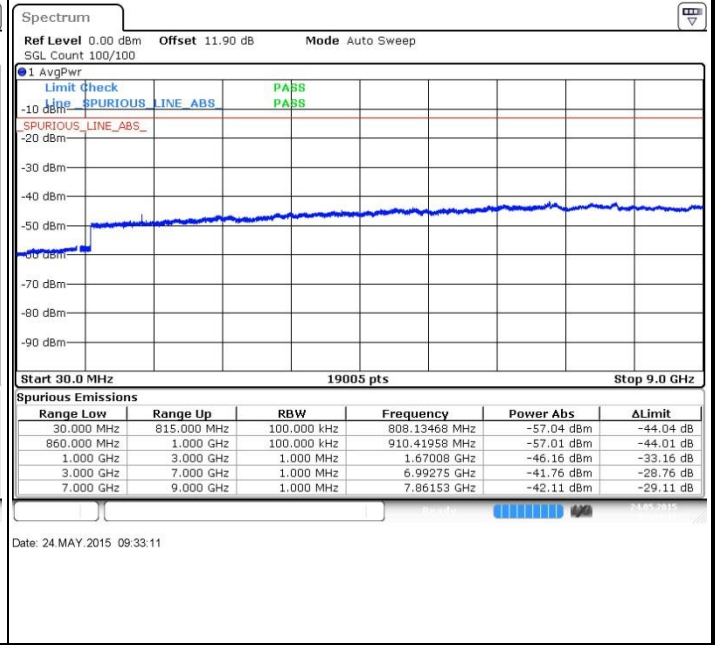
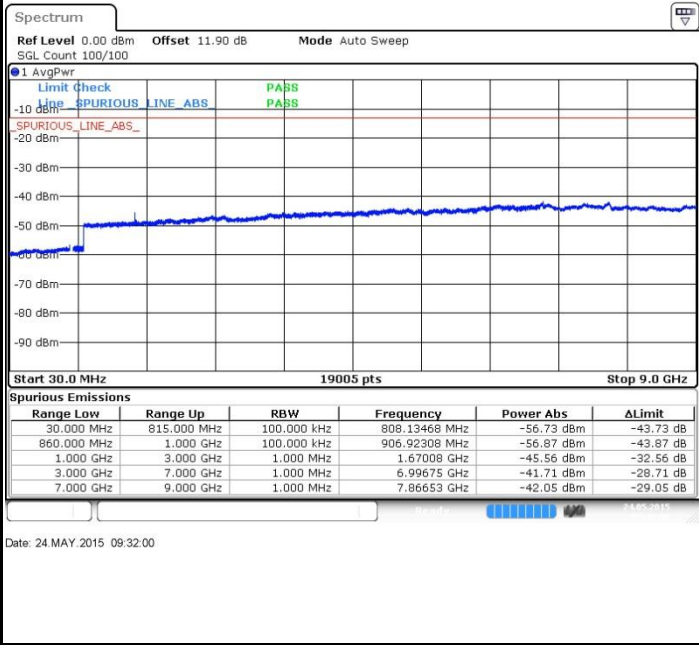




LTE Band 26 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM





Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0135	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0133	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0033	
20	Maximum Voltage	0.0148	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.95V. ; Battery End Point (BEP) = 3.55 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.



## LTE Band 4

### Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	4.99	5.22	6.06	<b>PASS</b>
Middle CH	4.17	4.99	4.81	5.88	
Highest CH	4.29	5.1	5.3	6.06	



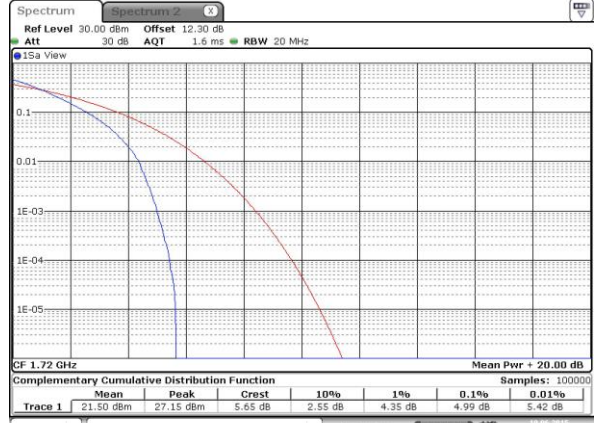
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 19 JUN 2015 15:06:52

Lowest Channel / Full RB



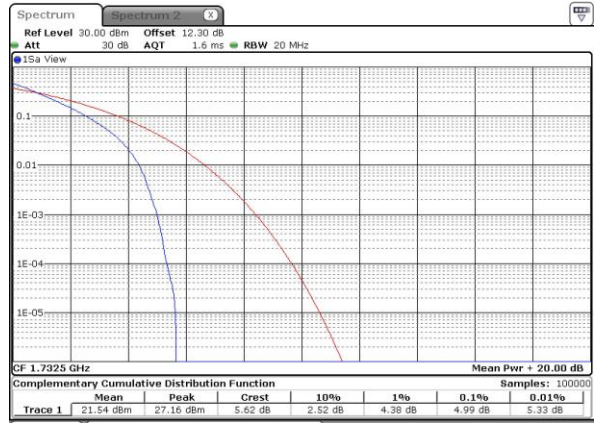
Date: 19 JUN 2015 15:07:02

Middle Channel / 1RB



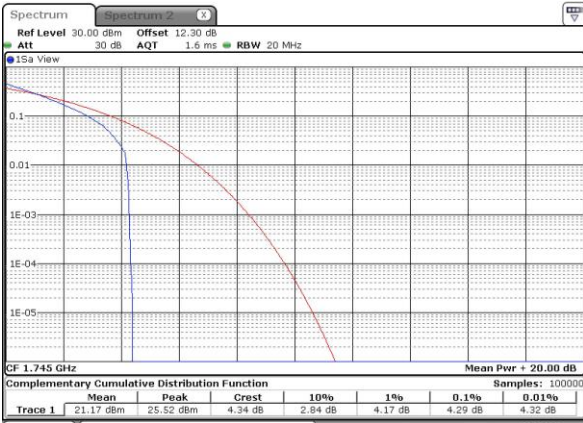
Date: 19 JUN 2015 15:07:15

Middle Channel / Full RB



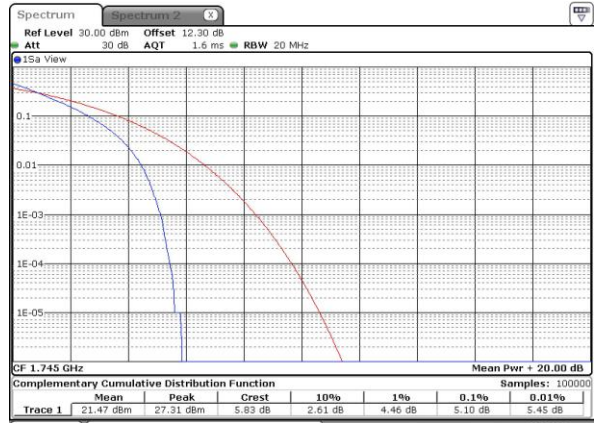
Date: 19 JUN 2015 15:07:27

Highest Channel / 1RB



Date: 19 JUN 2015 15:07:47

Highest Channel / Full RB

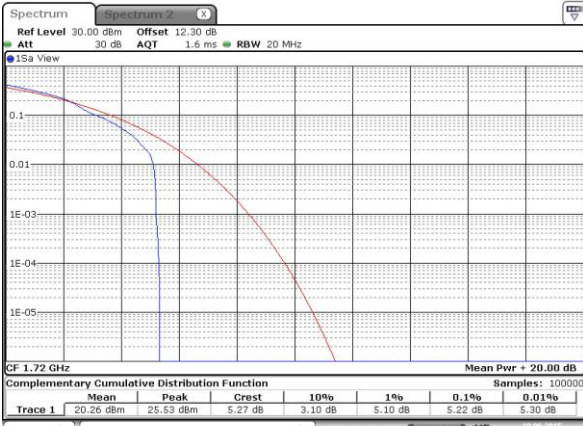


Date: 19 JUN 2015 15:08:17



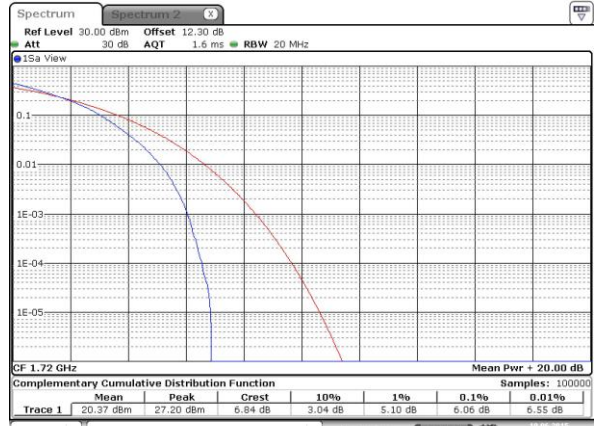
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



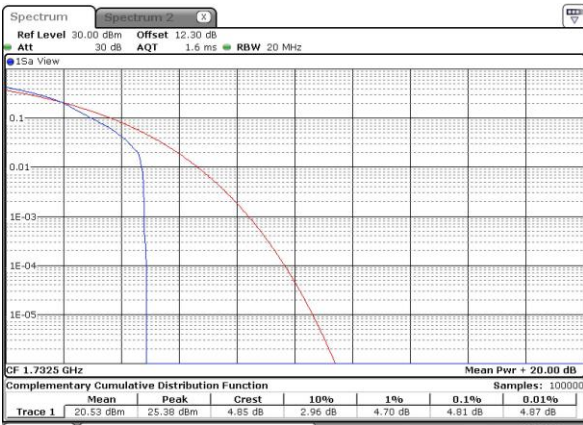
Date: 19 JUN 2015 15:05:12

Lowest Channel / Full RB



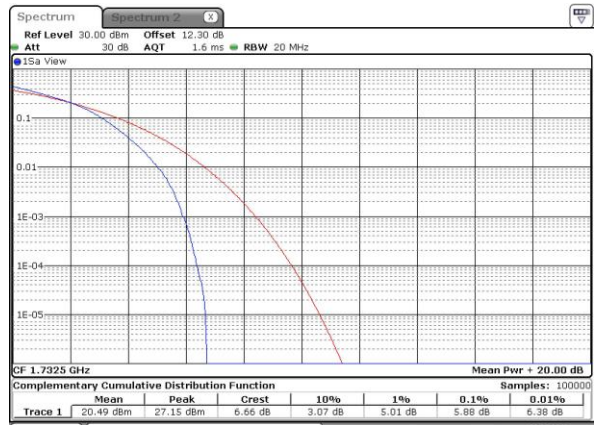
Date: 19 JUN 2015 15:05:26

Middle Channel / 1RB



Date: 19 JUN 2015 15:05:40

Middle Channel / Full RB



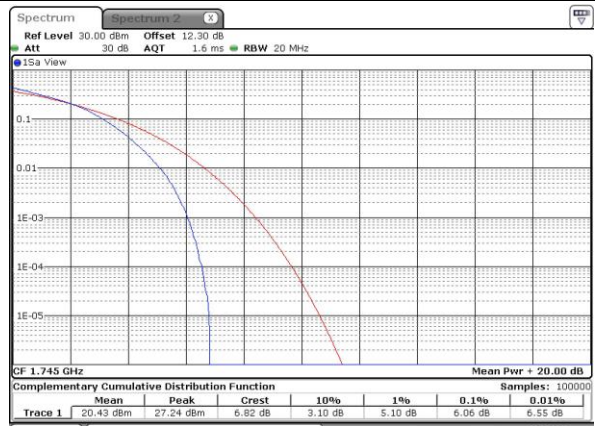
Date: 19 JUN 2015 15:05:51

Highest Channel / 1RB



Date: 19 JUN 2015 15:06:03

Highest Channel / Full RB



Date: 19 JUN 2015 15:06:15



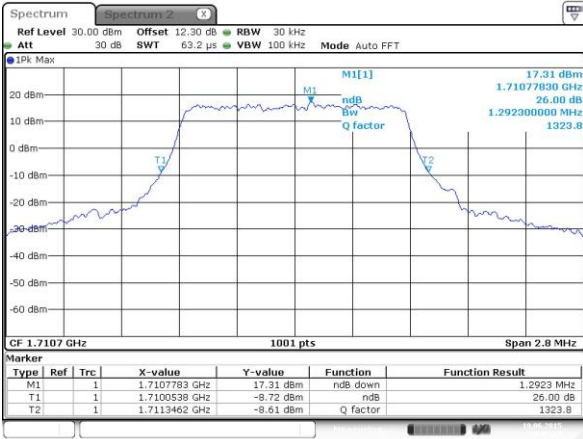
**26dB Bandwidth**

Mode	LTE Band 4 : 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	1.29	1.3	3.05	3.06	5.03	5.05	10.03	9.95	14.57	14.81	20.34	20.3
Middle CH	1.29	1.3	3.05	3.06	5.06	5.05	10.05	9.97	14.69	14.54	20.26	20.38
Highest CH	1.29	1.31	3.05	3.06	5.05	5.06	9.91	9.93	14.81	14.72	20.62	20.34



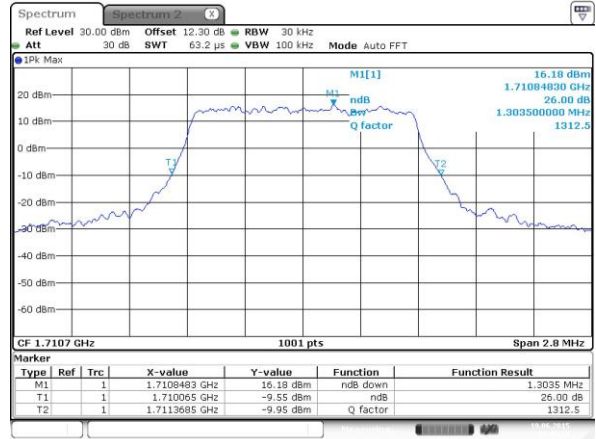
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



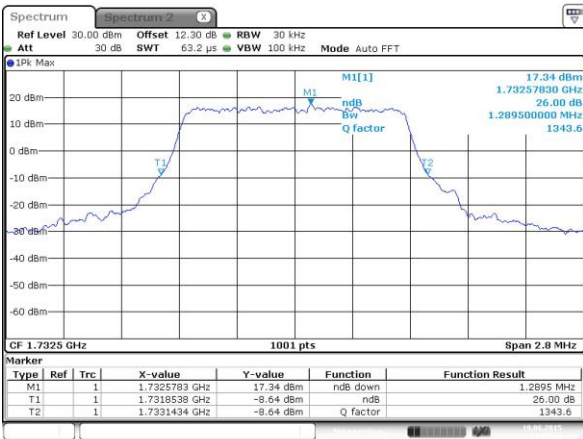
Date: 19 JUN 2015 14:44:16

Lowest Channel / 1.4MHz / 16QAM



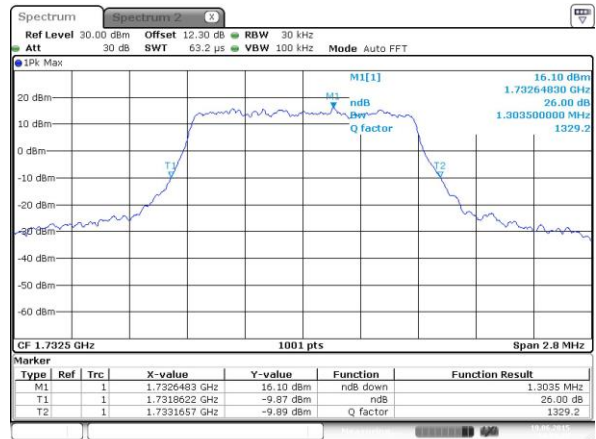
Date: 19 JUN 2015 14:44:28

Middle Channel / 1.4MHz / QPSK



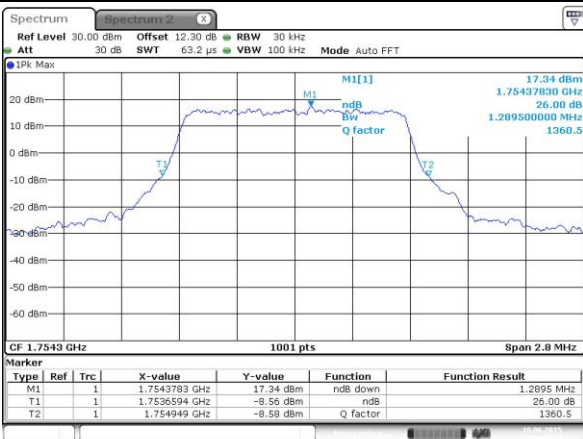
Date: 19 JUN 2015 14:53:16

Middle Channel / 1.4MHz / 16QAM



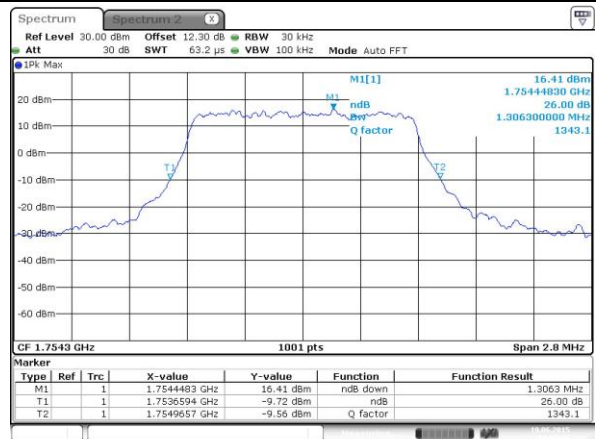
Date: 19 JUN 2015 14:53:29

Highest Channel / 1.4MHz / QPSK



Date: 19 JUN 2015 14:56:24

Highest Channel / 1.4MHz / 16QAM

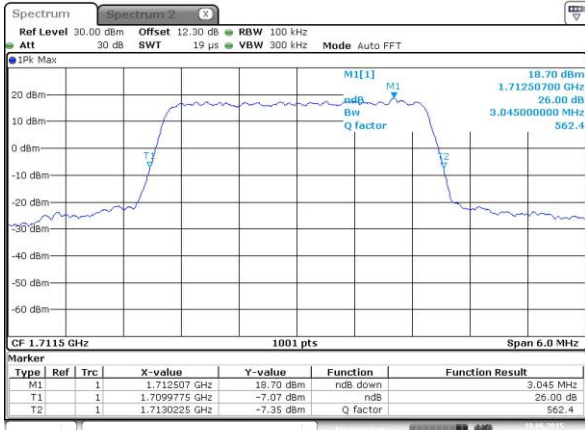


Date: 19 JUN 2015 14:56:36



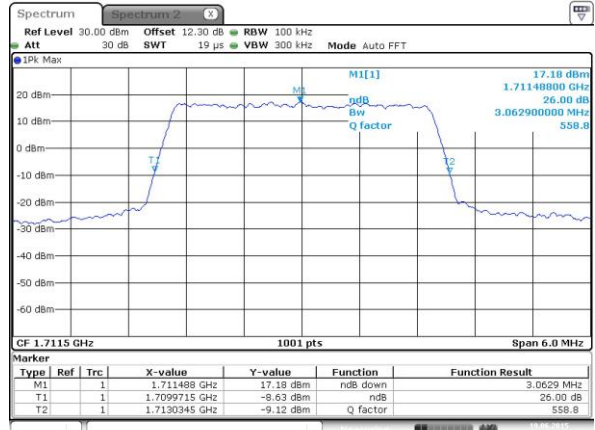
LTE Band 4

Lowest Channel / 3MHz / QPSK



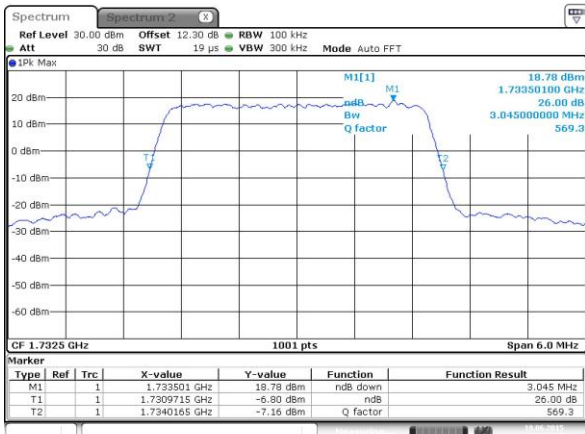
Date: 19 JUN 2015 11:33:47

Lowest Channel / 3MHz / 16QAM



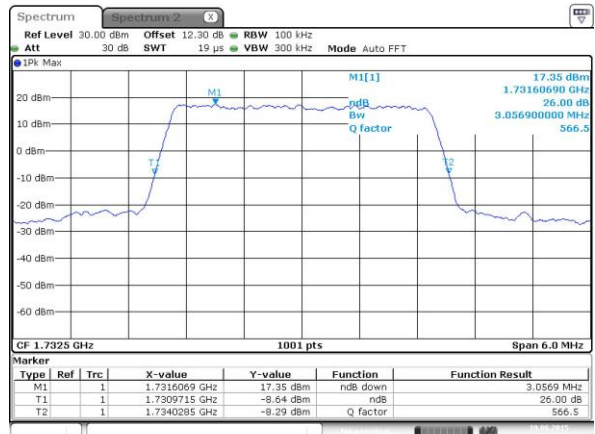
Date: 19 JUN 2015 11:33:59

Middle Channel / 3MHz / QPSK



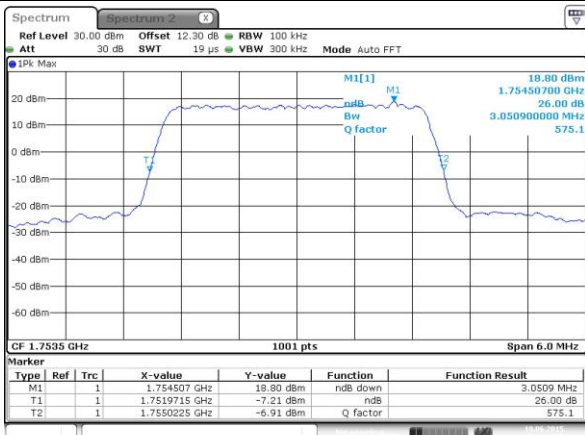
Date: 19 JUN 2015 11:41:35

Middle Channel / 3MHz / 16QAM



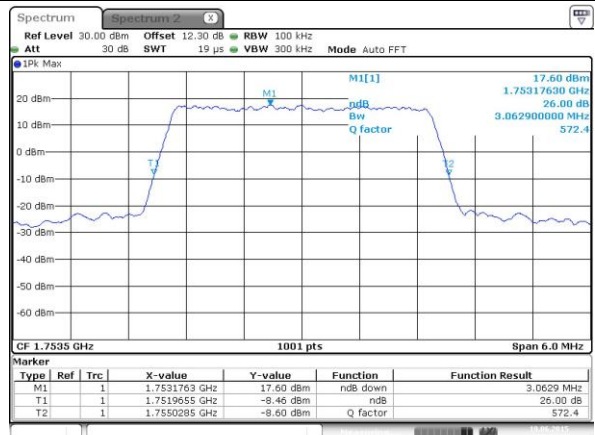
Date: 19 JUN 2015 11:41:47

Highest Channel / 3MHz / QPSK



Date: 19 JUN 2015 11:44:42

Highest Channel / 3MHz / 16QAM

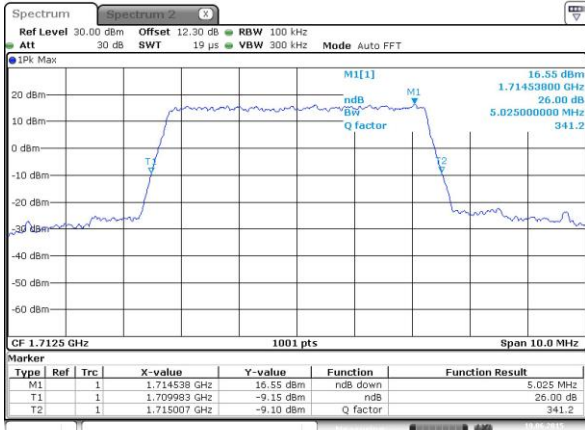


Date: 19 JUN 2015 11:44:55



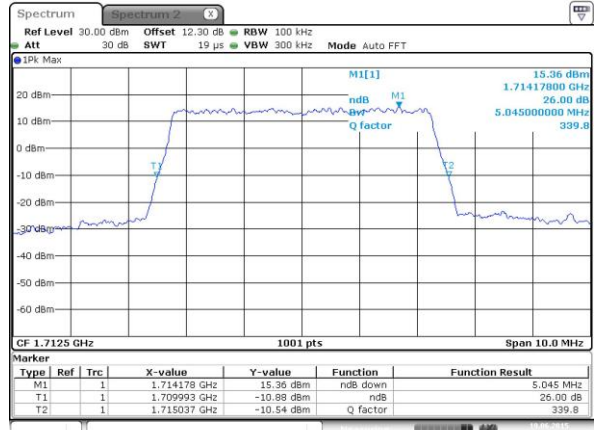
LTE Band 4

Lowest Channel / 5MHz / QPSK



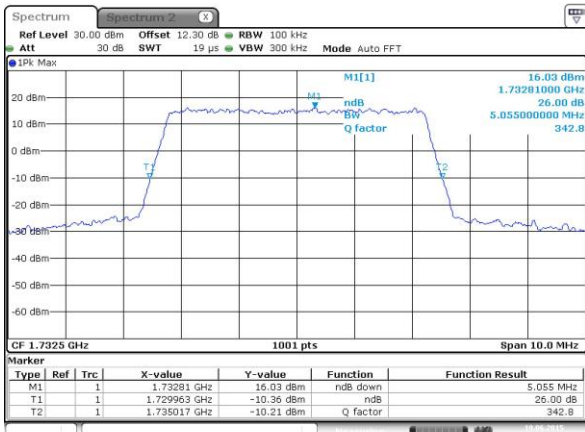
Date: 19 JUN 2015 11:52:30

Lowest Channel / 5MHz / 16QAM



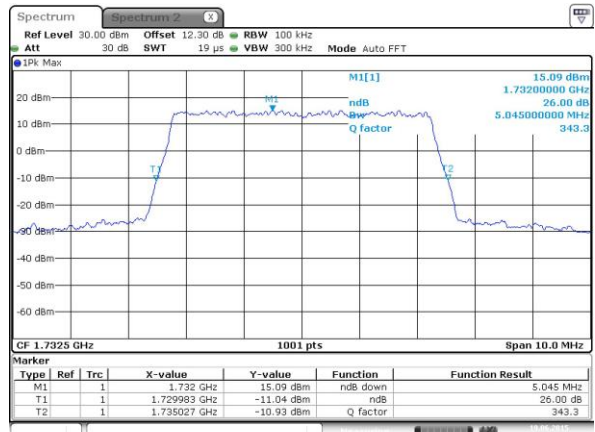
Date: 19 JUN 2015 11:52:42

Middle Channel / 5MHz / QPSK



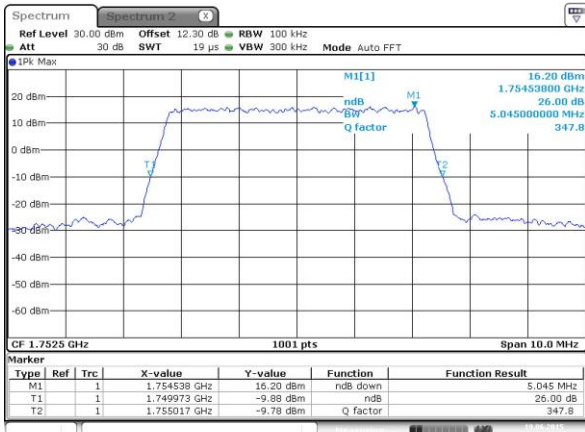
Date: 19 JUN 2015 12:00:17

Middle Channel / 5MHz / 16QAM



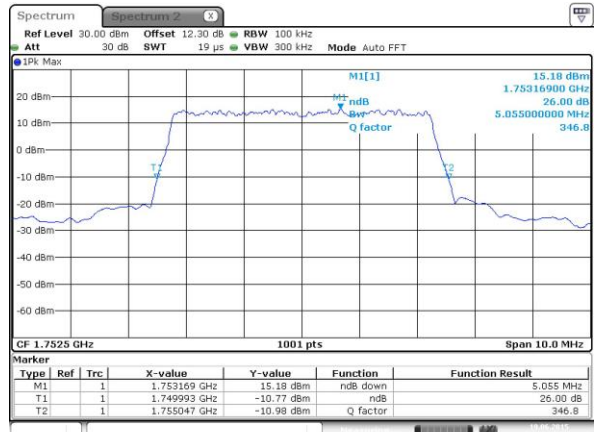
Date: 19 JUN 2015 12:00:30

Highest Channel / 5MHz / QPSK



Date: 19 JUN 2015 13:40:24

Highest Channel / 5MHz / 16QAM

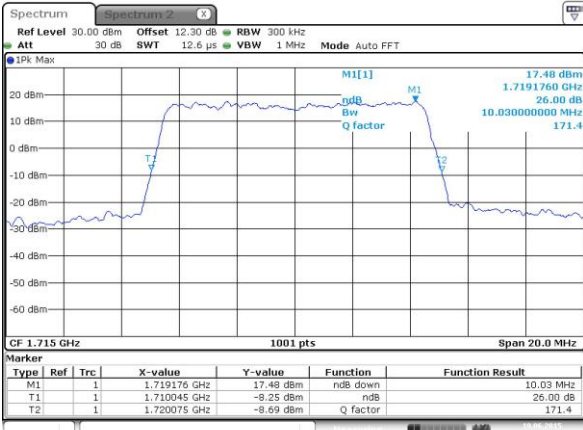


Date: 19 JUN 2015 13:40:37



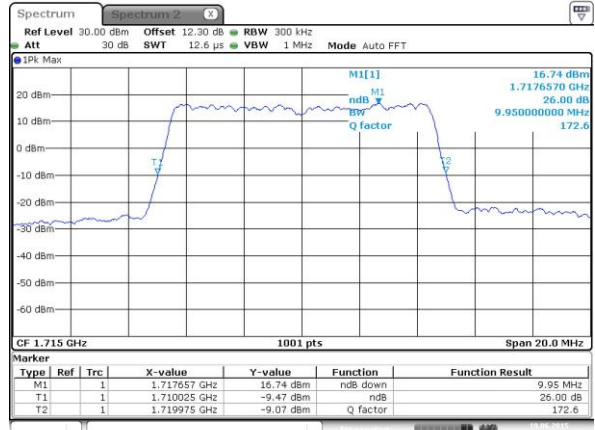
LTE Band 4

Lowest Channel / 10MHz / QPSK



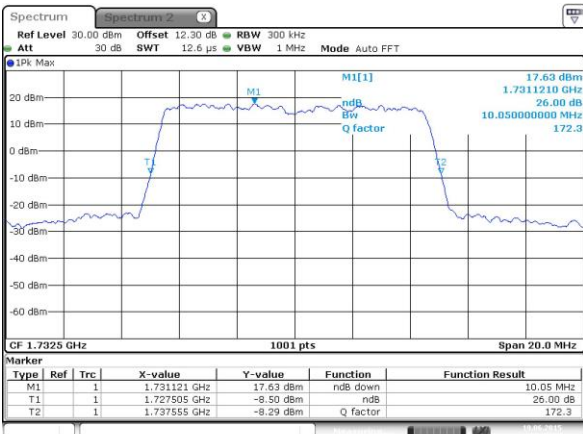
Date: 19 JUN 2015 13:48:12

Lowest Channel / 10MHz / 16QAM



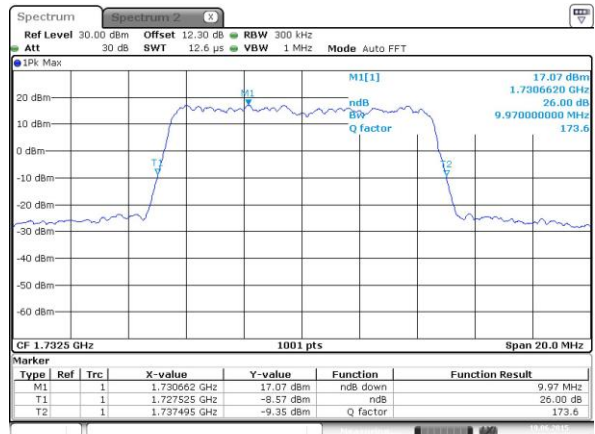
Date: 19 JUN 2015 13:48:24

Middle Channel / 10MHz / QPSK



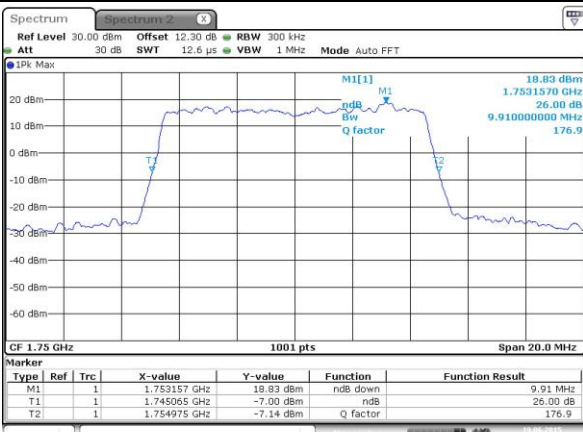
Date: 19 JUN 2015 13:55:58

Middle Channel / 10MHz / 16QAM



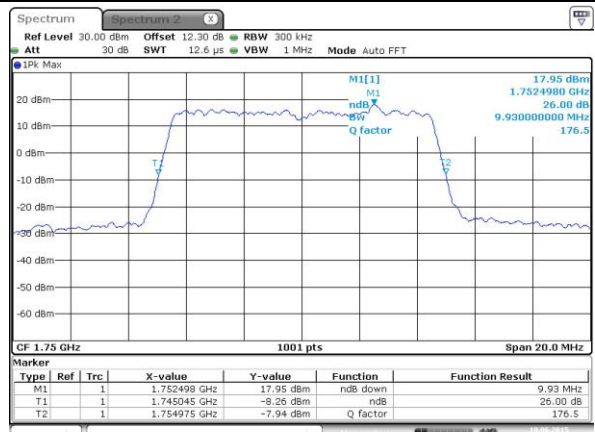
Date: 19 JUN 2015 13:56:11

Highest Channel / 10MHz / QPSK



Date: 19 JUN 2015 13:59:06

Highest Channel / 10MHz / 16QAM

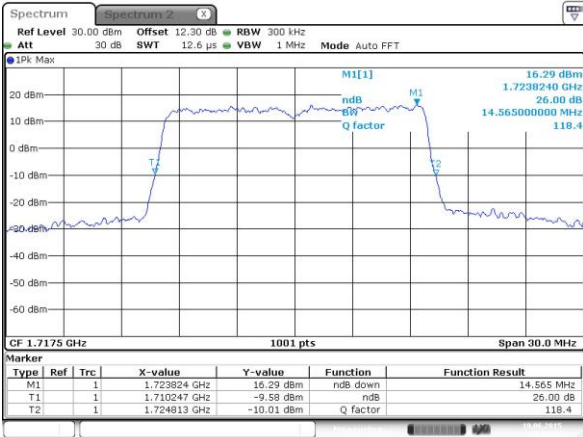


Date: 19 JUN 2015 13:59:18



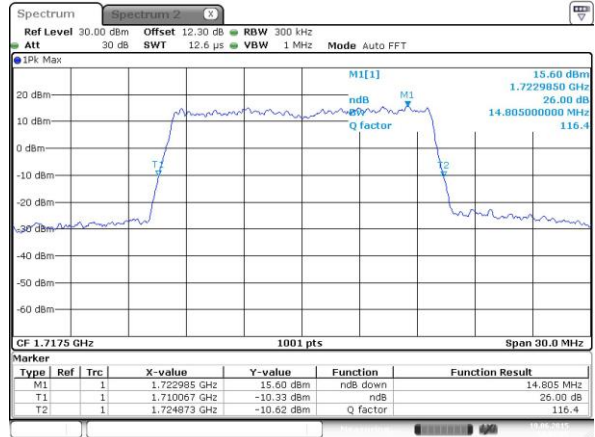
LTE Band 4

Lowest Channel / 15MHz / QPSK



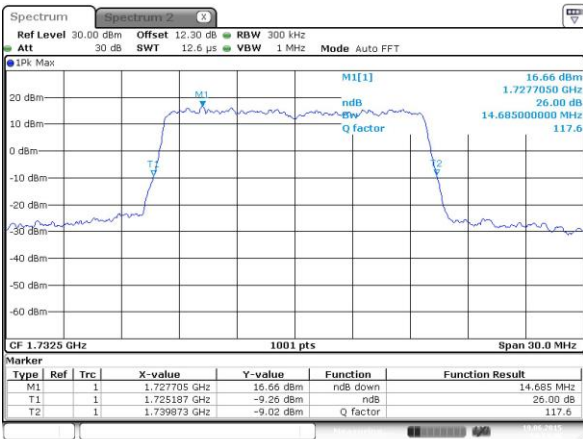
Date: 19 JUN 2015 14:06:53

Lowest Channel / 15MHz / 16QAM



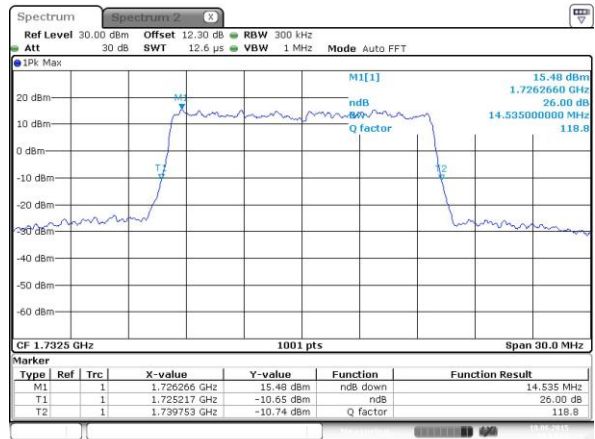
Date: 19 JUN 2015 14:07:05

Middle Channel / 15MHz / QPSK



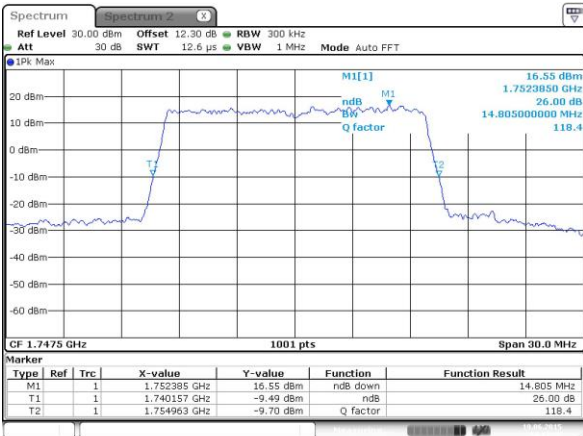
Date: 19 JUN 2015 14:14:40

Middle Channel / 15MHz / 16QAM



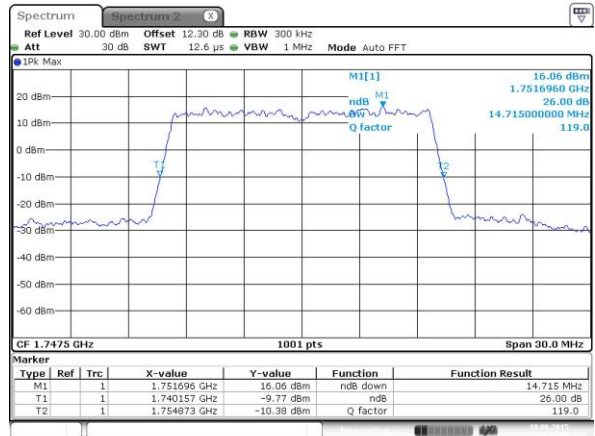
Date: 19 JUN 2015 14:14:53

Highest Channel / 15MHz / QPSK



Date: 19 JUN 2015 14:17:47

Highest Channel / 15MHz / 16QAM

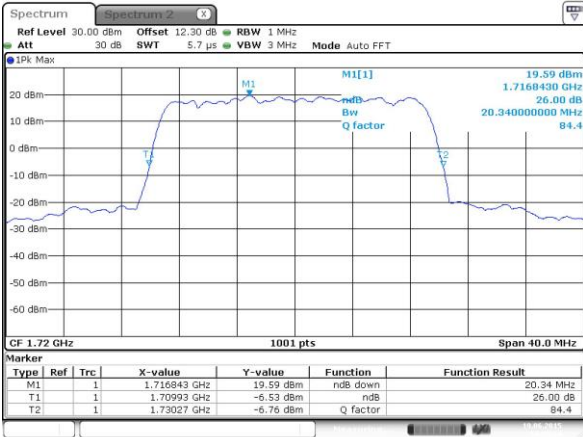


Date: 19 JUN 2015 14:18:00



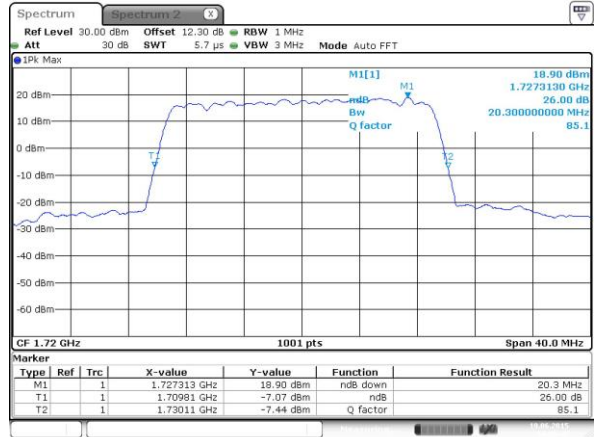
LTE Band 4

Lowest Channel / 20MHz / QPSK



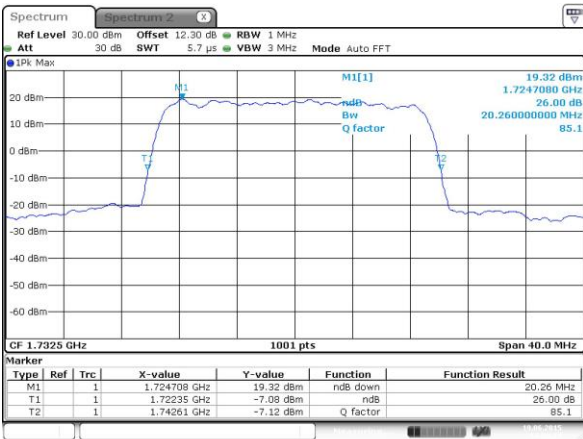
Date: 19 JUN 2015 14:25:34

Lowest Channel / 20MHz / 16QAM



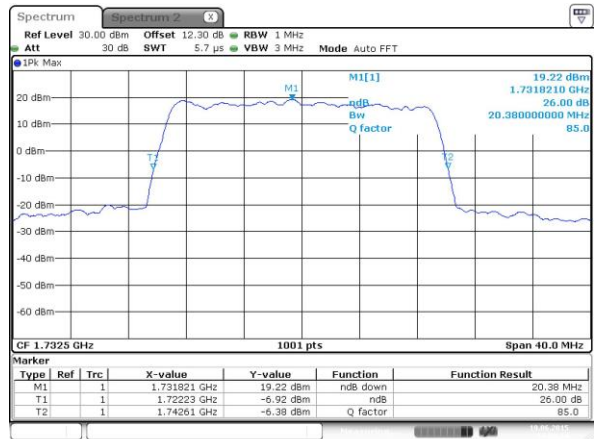
Date: 19 JUN 2015 14:25:47

Middle Channel / 20MHz / QPSK



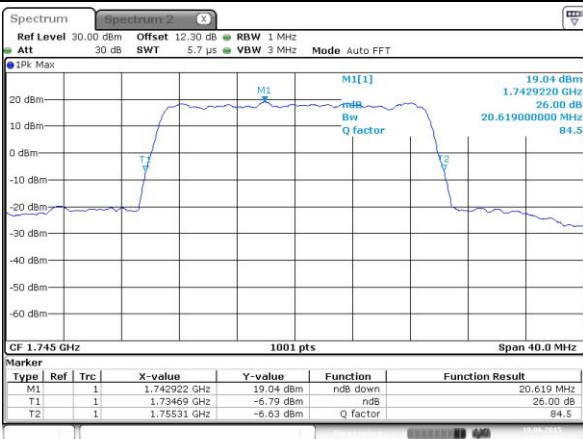
Date: 19 JUN 2015 14:33:21

Middle Channel / 20MHz / 16QAM



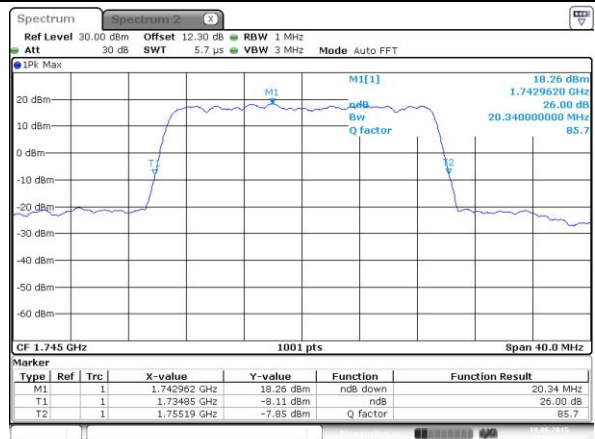
Date: 19 JUN 2015 14:33:34

Highest Channel / 20MHz / QPSK



Date: 19 JUN 2015 14:36:29

Highest Channel / 20MHz / 16QAM



Date: 19 JUN 2015 14:36:42



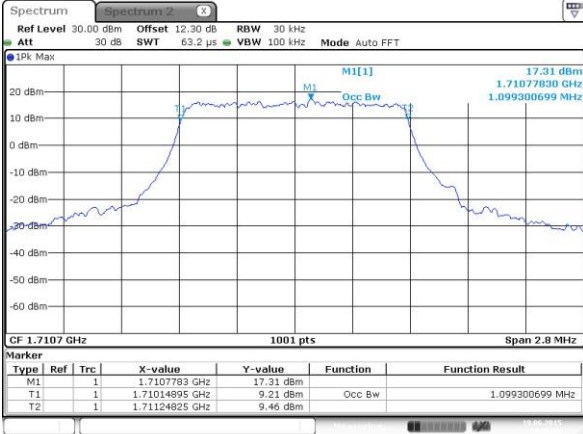
### Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(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	1.1	1.1	2.73	2.72	4.5	4.51	9.11	9.05	13.49	13.46	18.34	18.34
Middle CH	1.1	1.1	2.73	2.72	4.51	4.5	9.03	9.03	13.46	13.49	18.42	18.34
Highest CH	1.1	1.1	2.73	2.73	4.5	4.5	9.07	9.05	13.46	13.46	18.38	18.42



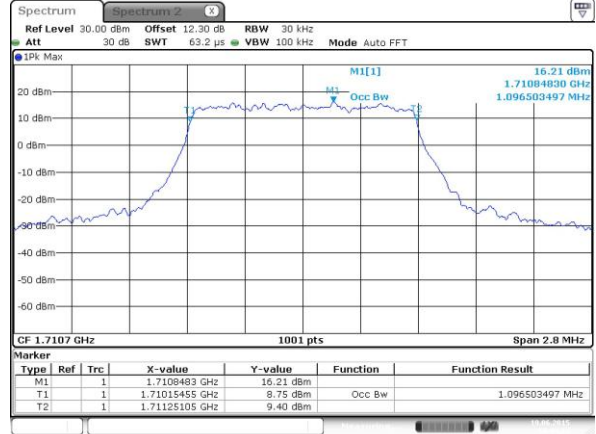
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



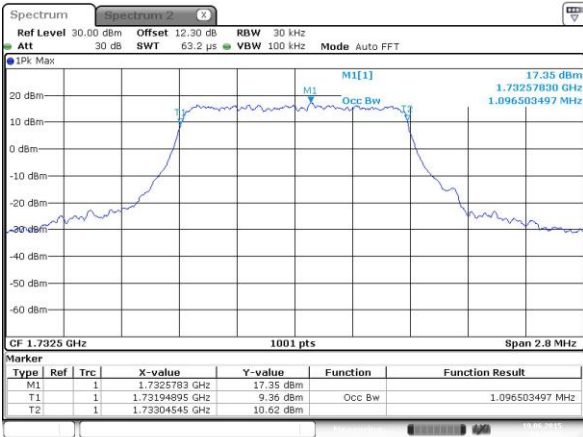
Date: 19 JUN 2015 14:43:52

Lowest Channel / 1.4MHz / 16QAM



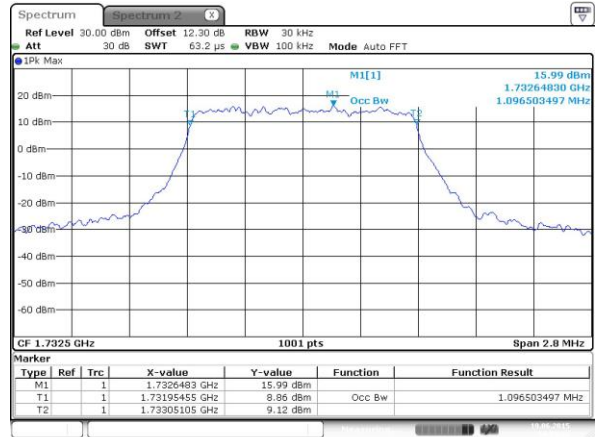
Date: 19 JUN 2015 14:44:03

Middle Channel / 1.4MHz / QPSK



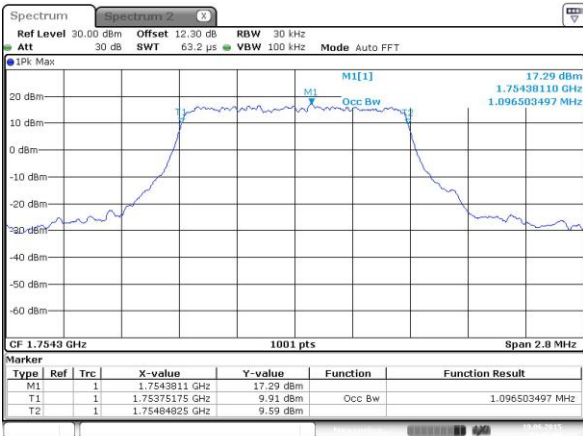
Date: 19 JUN 2015 14:52:52

Middle Channel / 1.4MHz / 16QAM



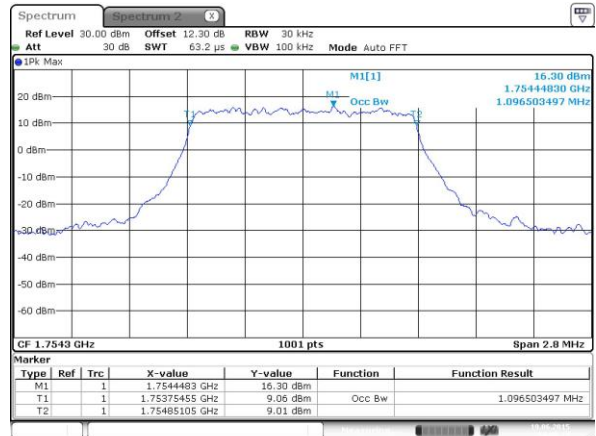
Date: 19 JUN 2015 14:53:03

Highest Channel / 1.4MHz / QPSK



Date: 19 JUN 2015 14:56:00

Highest Channel / 1.4MHz / 16QAM



Date: 19 JUN 2015 14:56:11