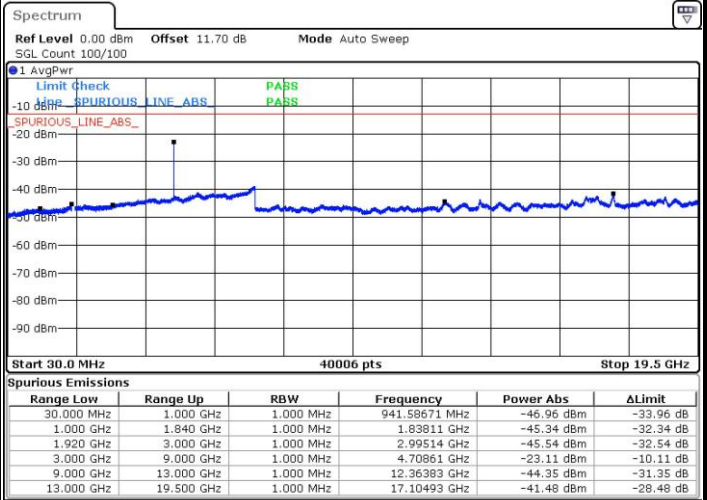
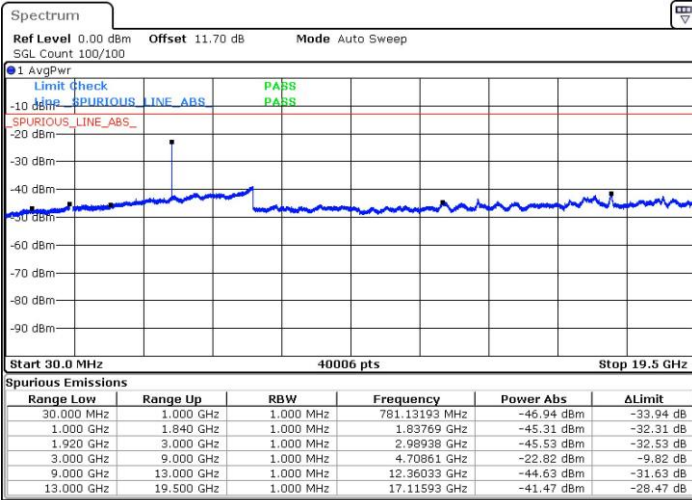




LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

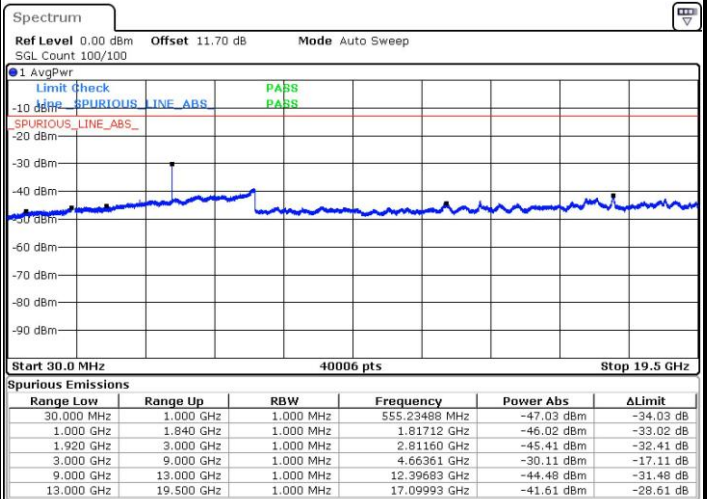
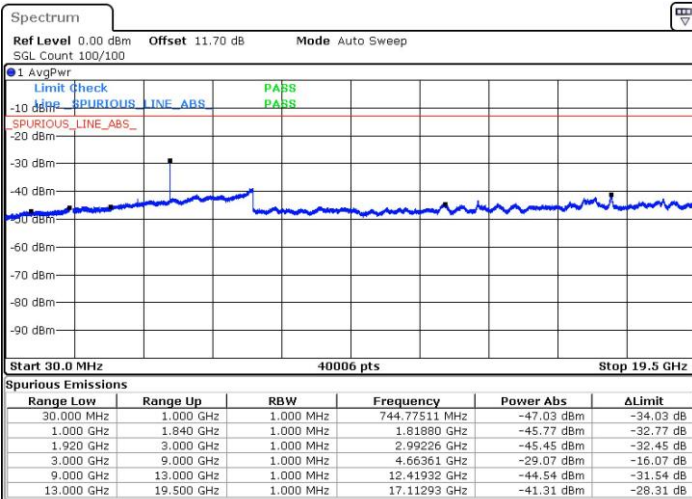


Date: 3.NOV.2016 12:39:32

Date: 3.NOV.2016 12:40:30

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 3.NOV.2016 12:42:15

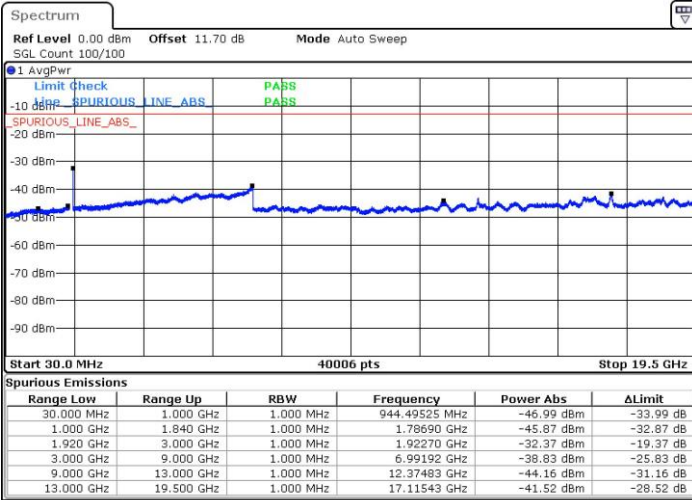
Date: 3.NOV.2016 12:43:14



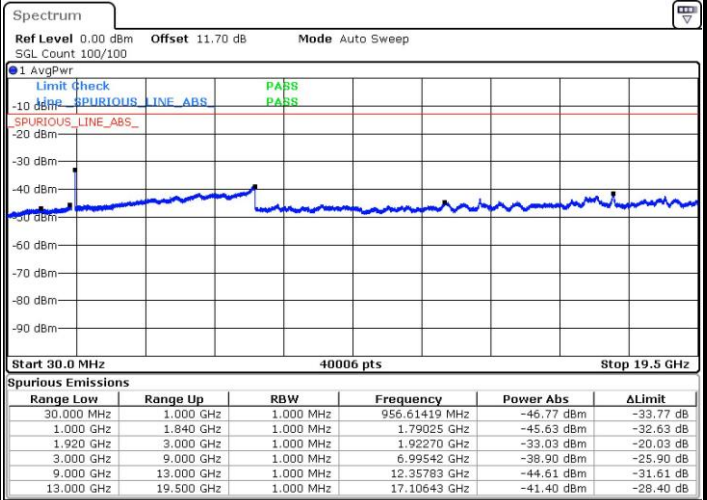
LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 3.NOV.2016 12:49:38

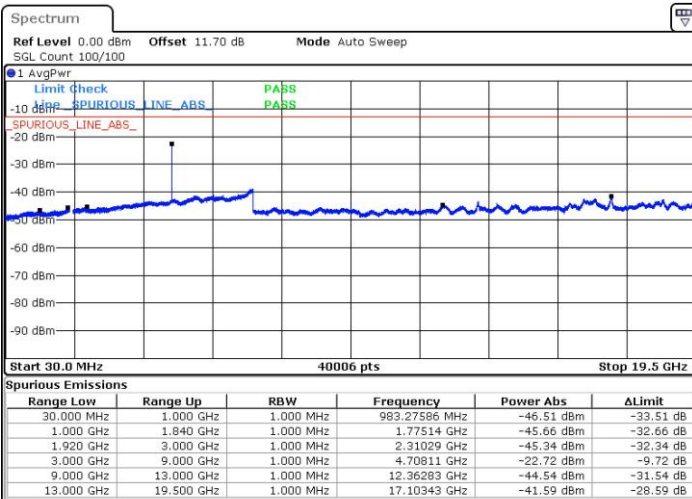


Date: 3.NOV.2016 12:50:36

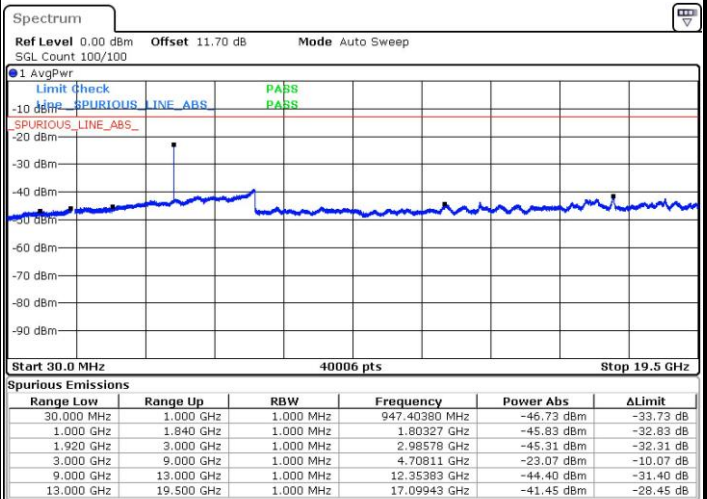
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 3.NOV.2016 12:57:01

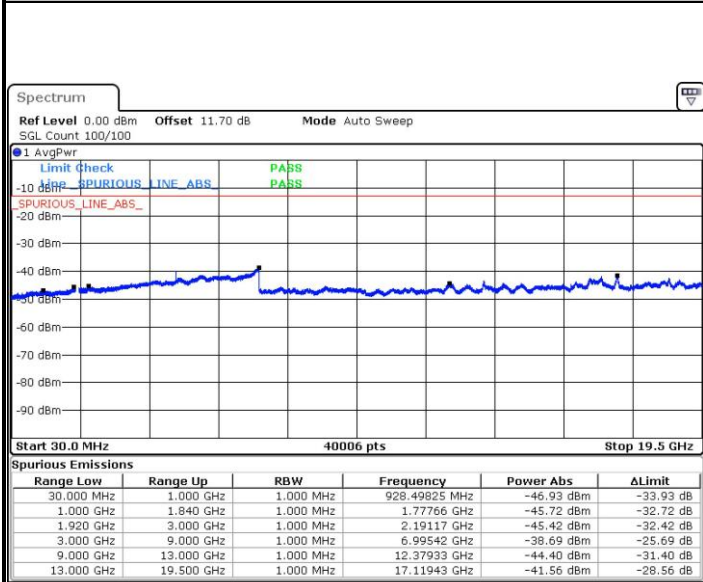


Date: 3.NOV.2016 12:57:59



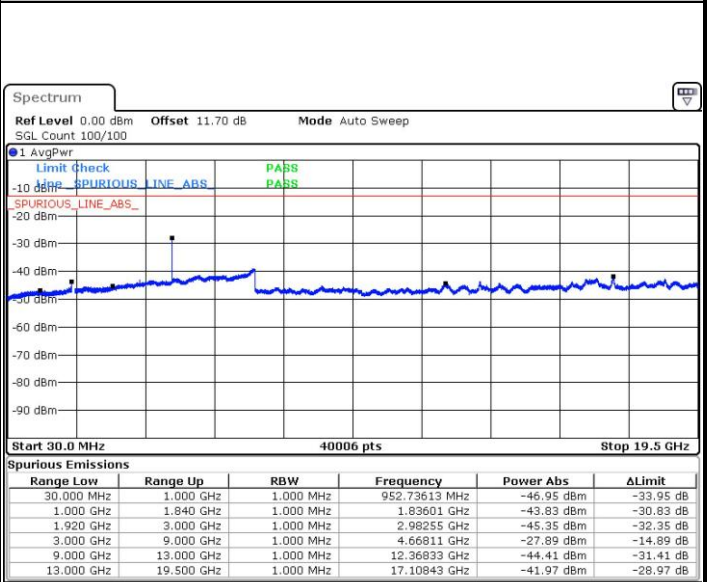
LTE Band 2 / 20MHz

Middle Channel / QPSK



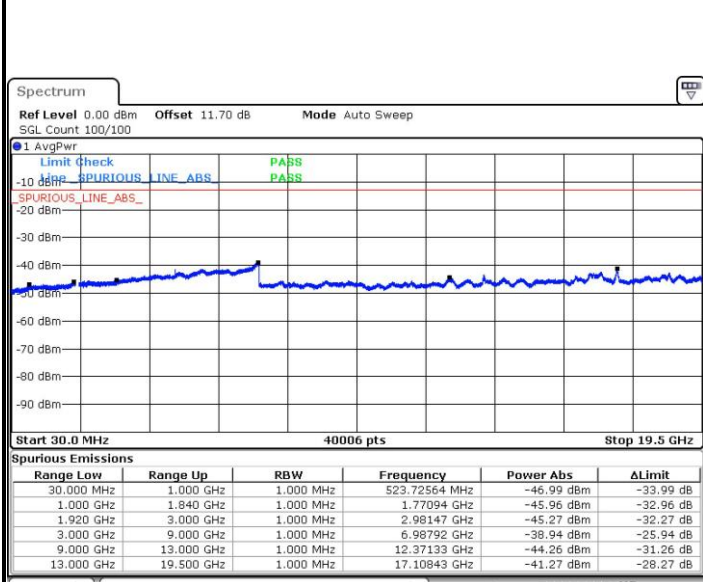
Date: 3.NOV.2016 12:59:44

Middle Channel / 16QAM



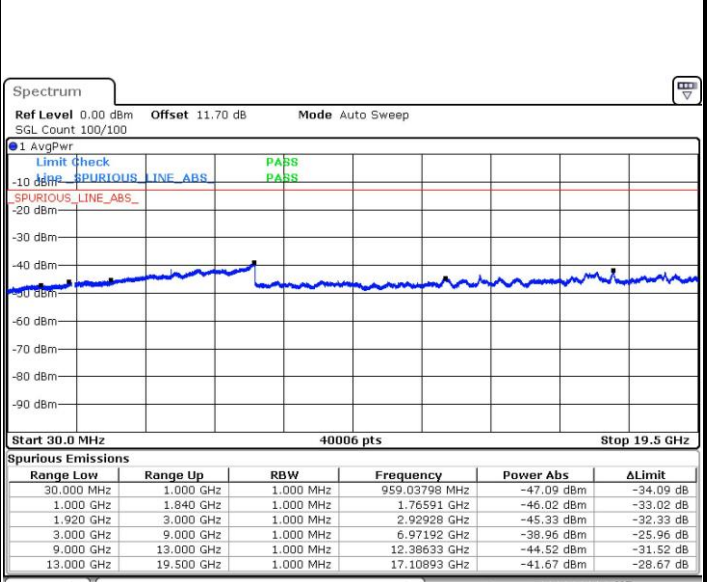
Date: 3.NOV.2016 13:39:21

Highest Channel / QPSK



Date: 3.NOV.2016 13:45:44

Highest Channel / 16QAM



Date: 3.NOV.2016 13:46:42



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	0.0007	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0131	
-20	Normal Voltage	0.0124	
-30	Normal Voltage	0.0127	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; 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 4

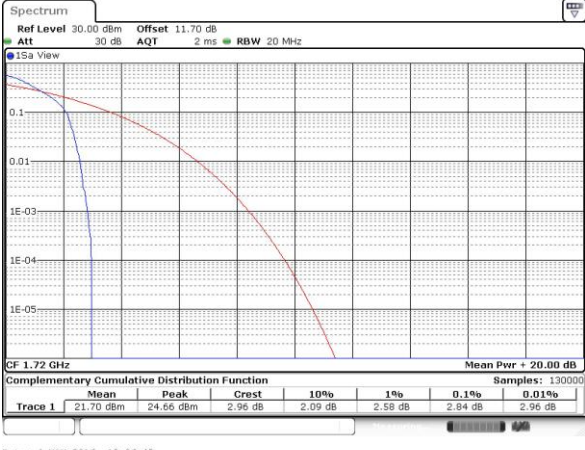
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	2.84	4.26	3.68	5.19	PASS
Middle CH	2.93	4.17	3.77	5.07	
Highest CH	2.7	4.2	3.59	5.16	



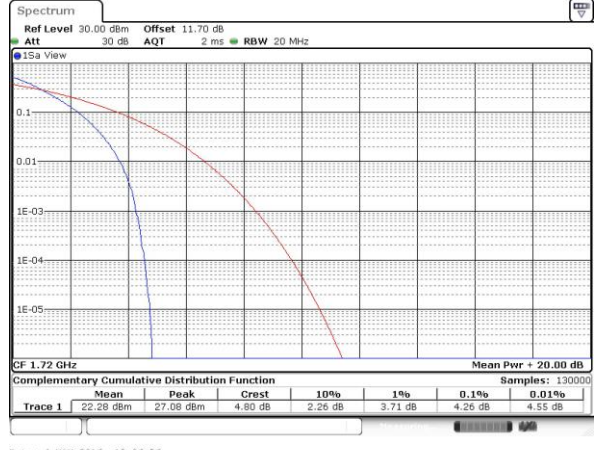
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



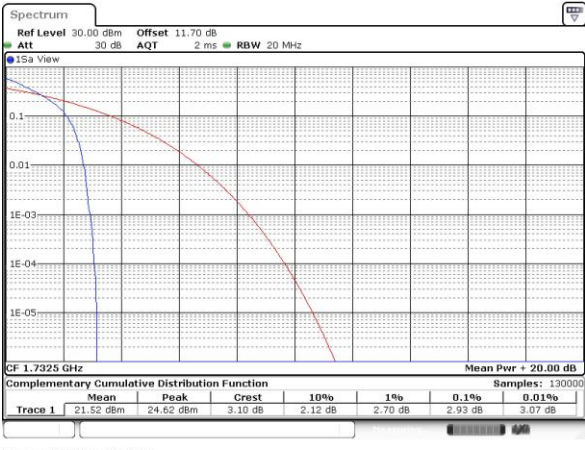
Date: 4.NOV.2016 19:06:45

Lowest Channel / Full RB



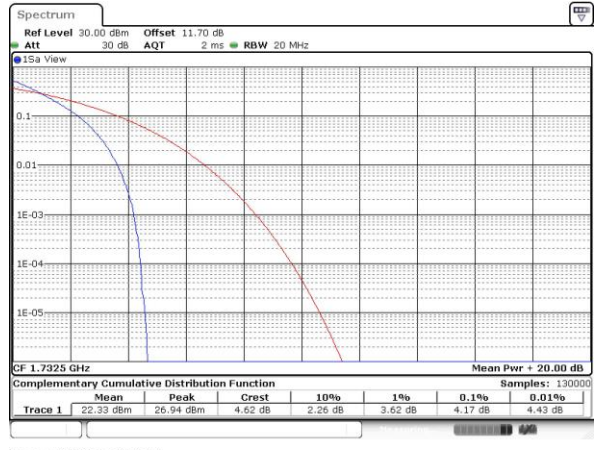
Date: 4.NOV.2016 19:06:56

Middle Channel / 1RB



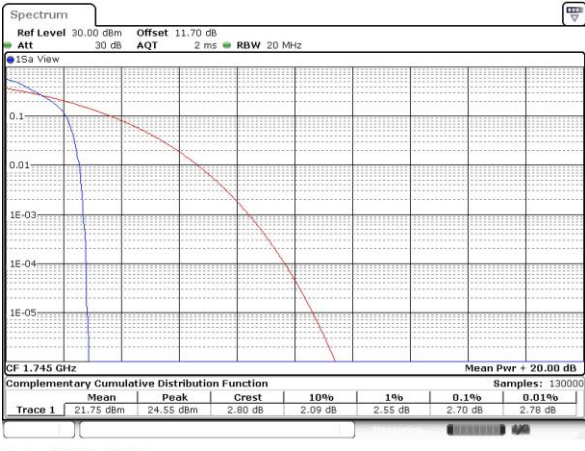
Date: 4.NOV.2016 19:07:09

Middle Channel / Full RB



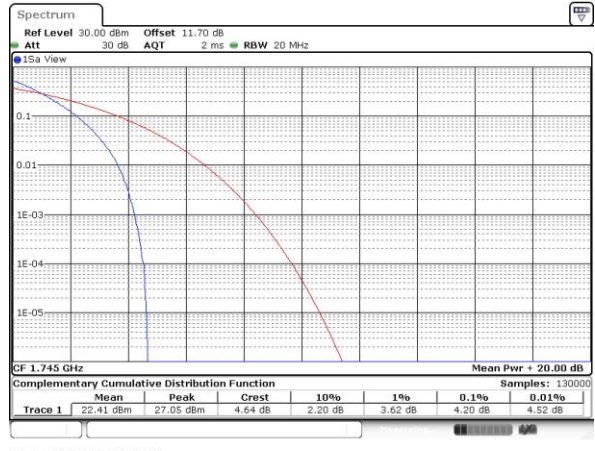
Date: 4.NOV.2016 19:07:33

Highest Channel / 1RB



Date: 4.NOV.2016 19:07:44

Highest Channel / Full RB

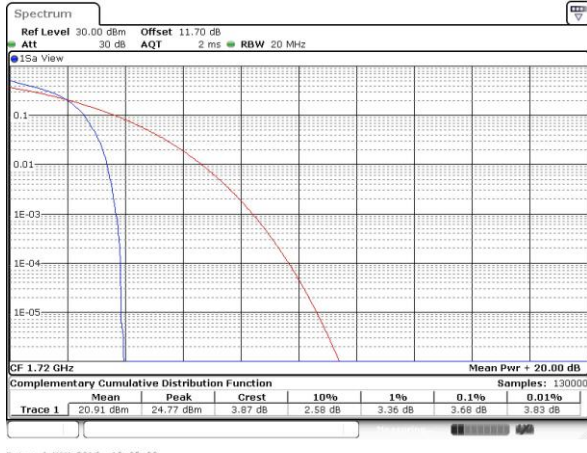


Date: 4.NOV.2016 19:07:55



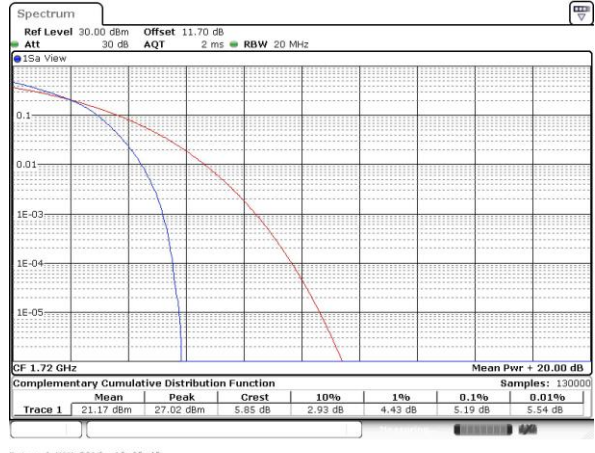
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



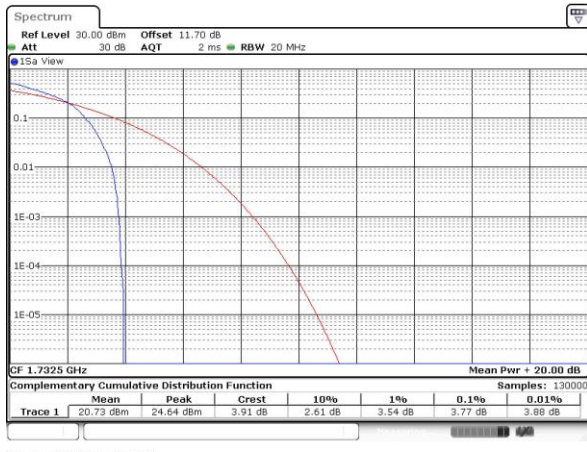
Date: 4.NOV.2016 19:05:33

Lowest Channel / Full RB



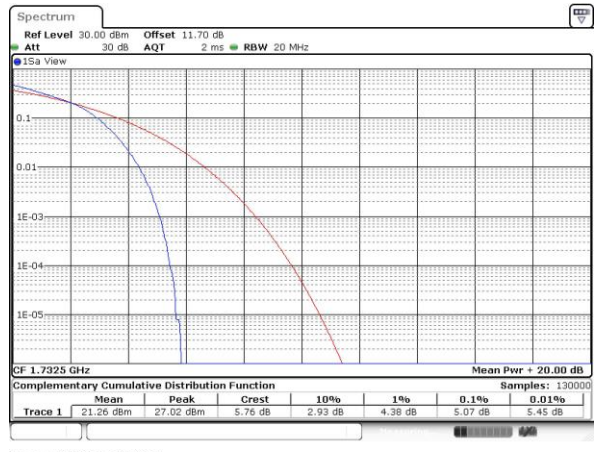
Date: 4.NOV.2016 19:05:45

Middle Channel / 1RB



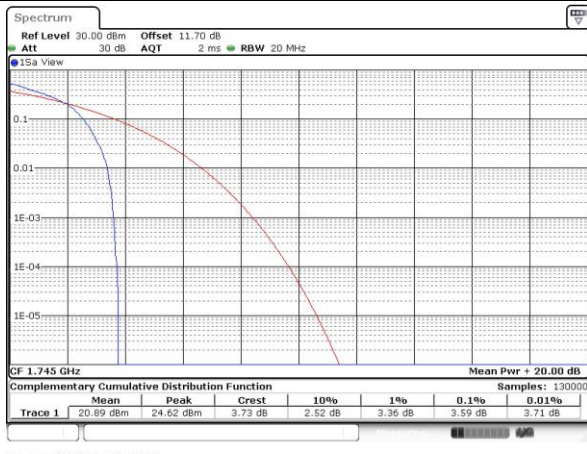
Date: 4.NOV.2016 19:05:58

Middle Channel / Full RB



Date: 4.NOV.2016 19:06:10

Highest Channel / 1RB



Date: 4.NOV.2016 19:06:22

Highest Channel / Full RB



Date: 4.NOV.2016 19:06:34



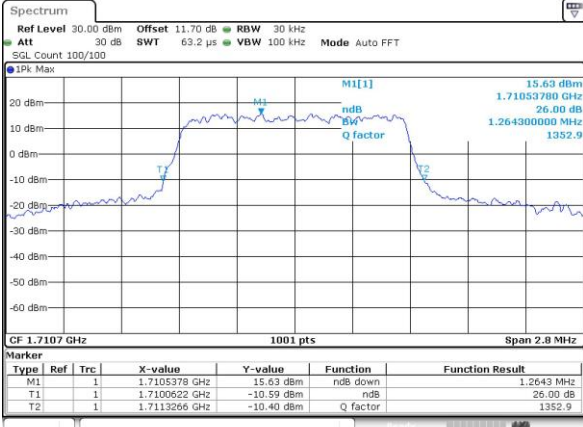
26dB Bandwidth

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	1.26	1.29	3.04	3.02	4.93	4.99	9.95	9.65	14.27	14.78	20.14	20.14
Middle CH	1.26	1.26	3.00	2.99	4.92	4.97	9.83	9.87	14.42	14.60	20.26	20.18
Highest CH	1.26	1.30	3.03	2.98	4.97	4.97	9.99	9.75	14.15	14.66	20.14	20.18



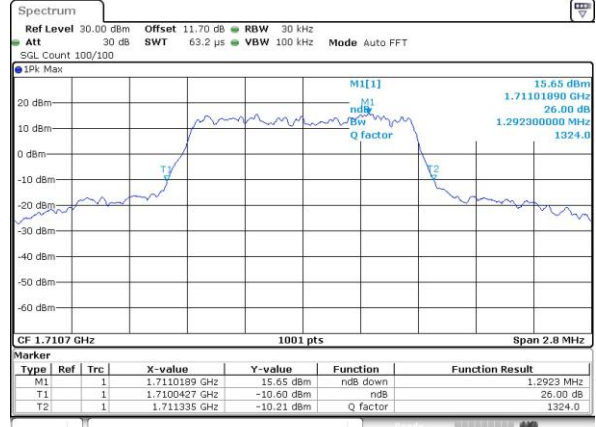
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



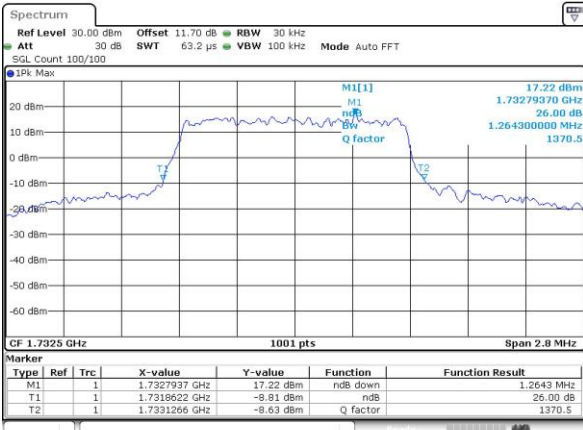
Date: 4.NOV.2016 18:12:35

Lowest Channel / 1.4MHz / 16QAM



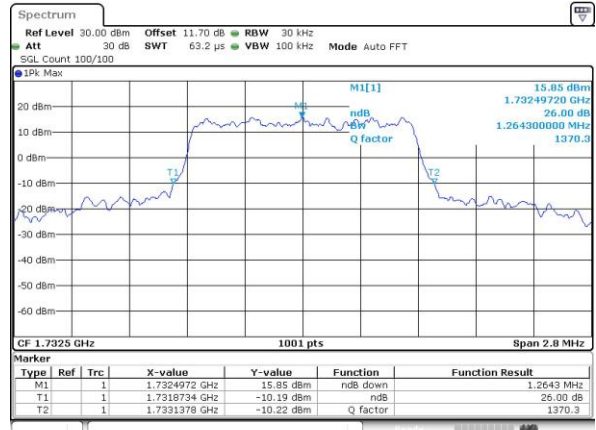
Date: 4.NOV.2016 18:12:47

Middle Channel / 1.4MHz / QPSK



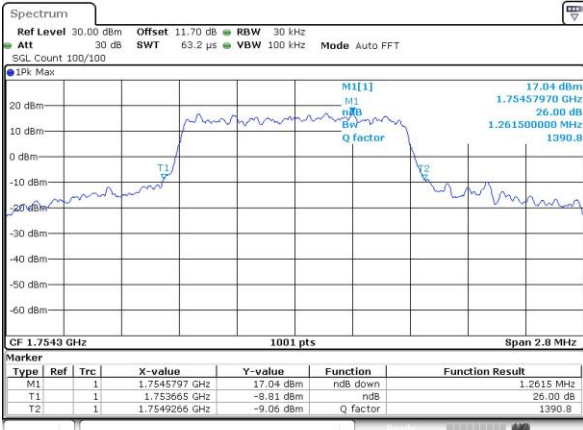
Date: 4.NOV.2016 18:19:55

Middle Channel / 1.4MHz / 16QAM



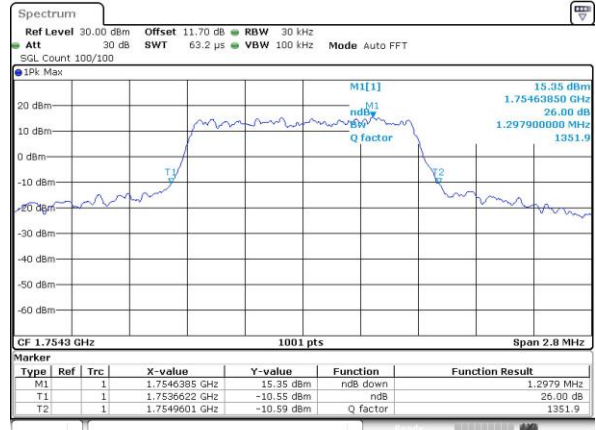
Date: 4.NOV.2016 18:20:06

Highest Channel / 1.4MHz / QPSK



Date: 4.NOV.2016 18:22:38

Highest Channel / 1.4MHz / 16QAM

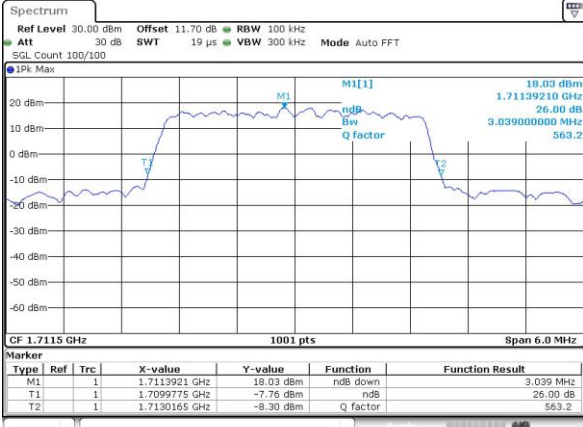


Date: 4.NOV.2016 18:22:49



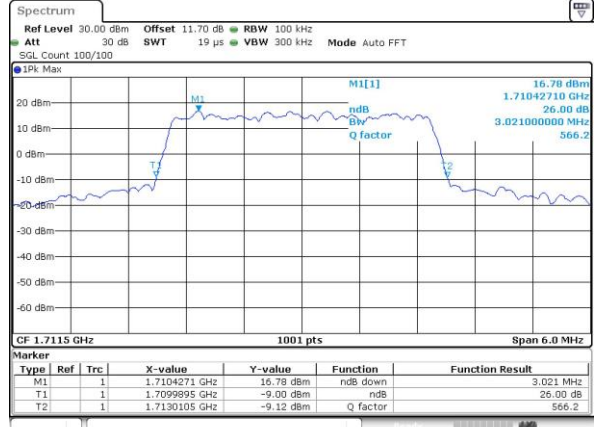
LTE Band 4

Lowest Channel / 3MHz / QPSK



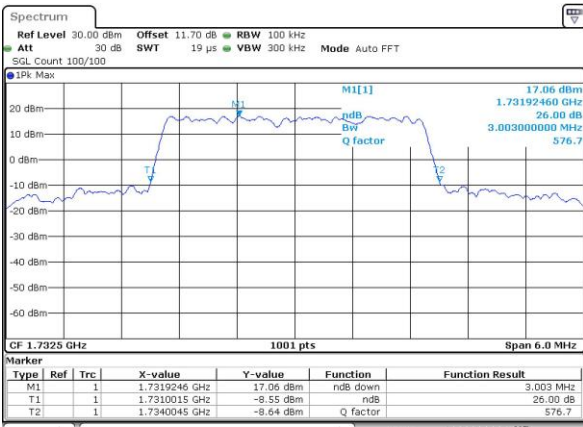
Date: 4.NOV.2016 16:45:27

Lowest Channel / 3MHz / 16QAM



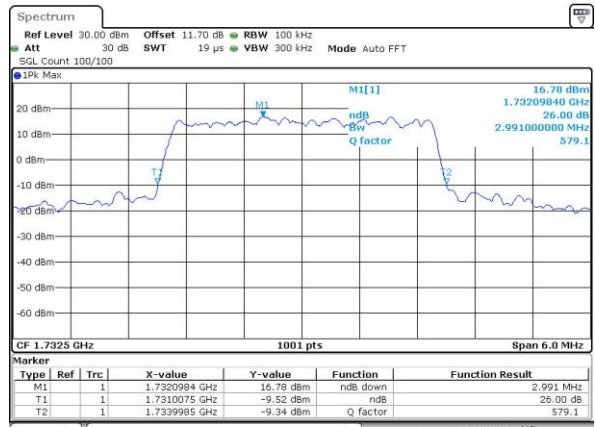
Date: 4.NOV.2016 16:45:39

Middle Channel / 3MHz / QPSK



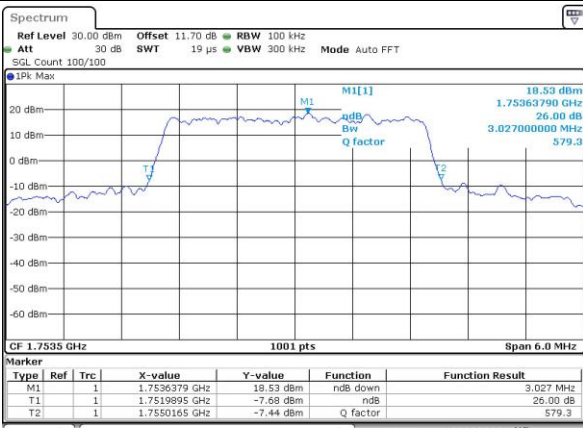
Date: 4.NOV.2016 16:52:49

Middle Channel / 3MHz / 16QAM



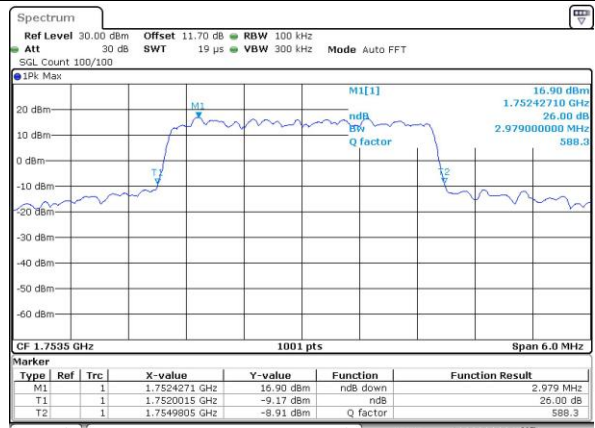
Date: 4.NOV.2016 16:53:00

Highest Channel / 3MHz / QPSK



Date: 4.NOV.2016 16:55:32

Highest Channel / 3MHz / 16QAM

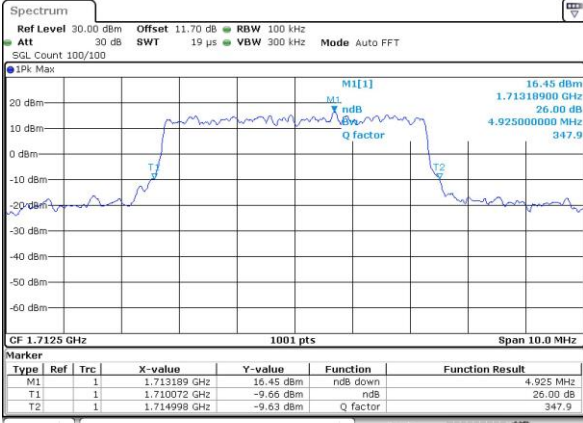


Date: 4.NOV.2016 16:55:44



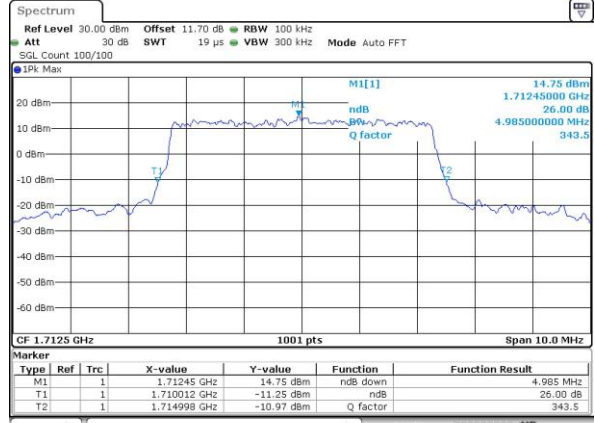
LTE Band 4

Lowest Channel / 5MHz / QPSK



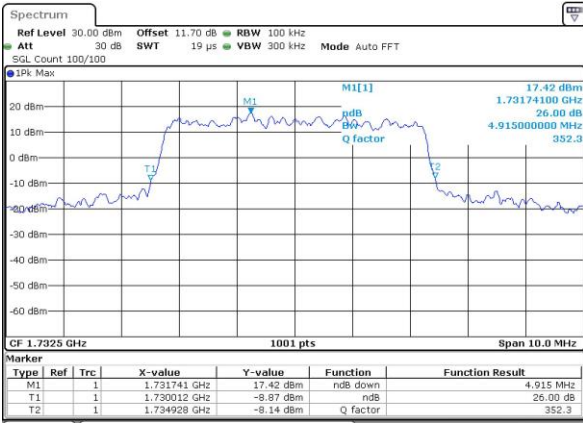
Date: 4.NOV.2016 17:02:54

Lowest Channel / 5MHz / 16QAM



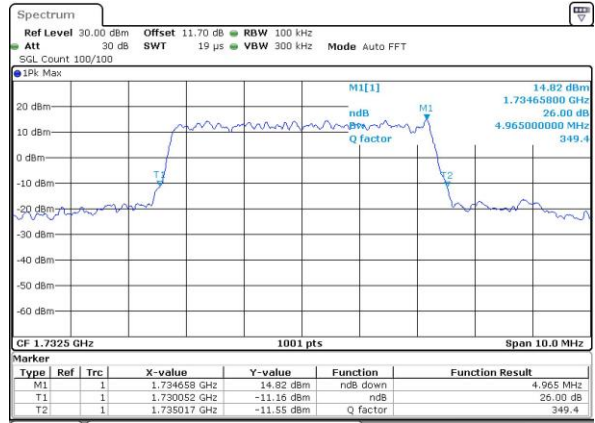
Date: 4.NOV.2016 17:03:05

Middle Channel / 5MHz / QPSK



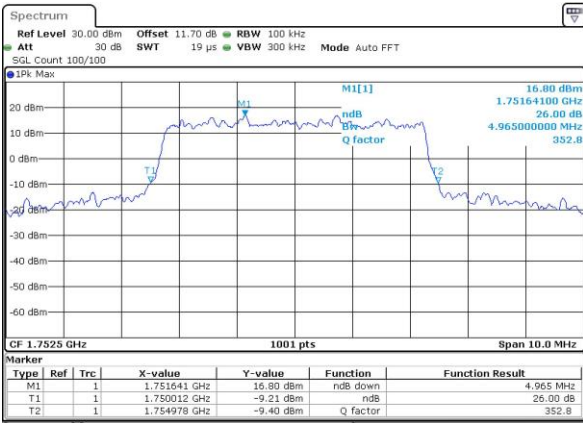
Date: 4.NOV.2016 17:10:15

Middle Channel / 5MHz / 16QAM



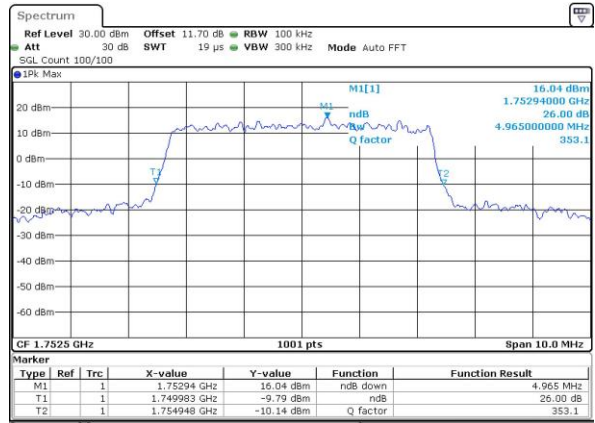
Date: 4.NOV.2016 17:10:27

Highest Channel / 5MHz / QPSK



Date: 4.NOV.2016 17:12:59

Highest Channel / 5MHz / 16QAM

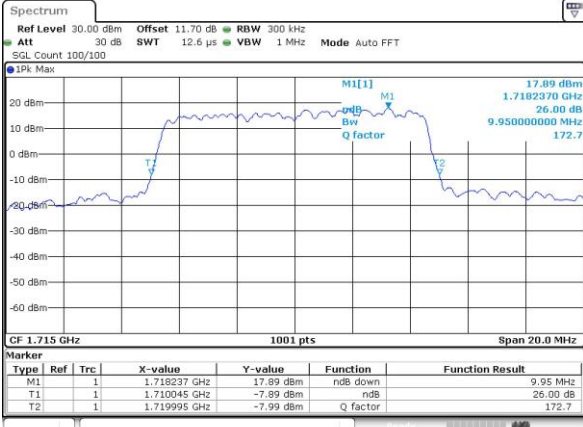


Date: 4.NOV.2016 17:13:10



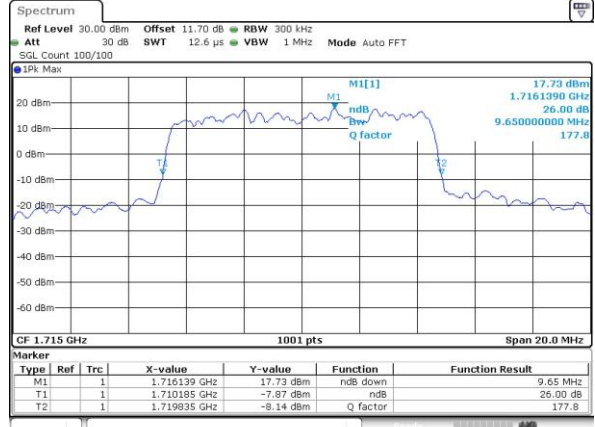
LTE Band 4

Lowest Channel / 10MHz / QPSK



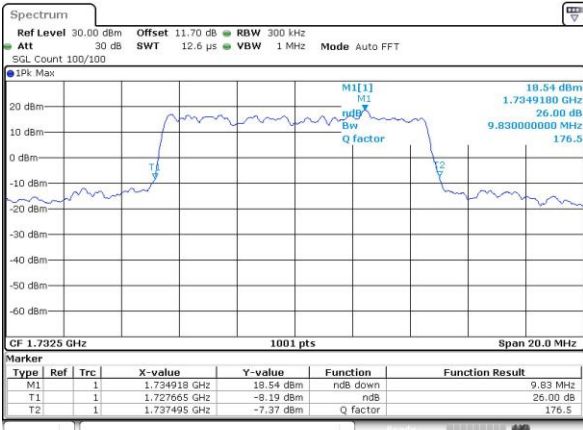
Date: 4.NOV.2016 17:20:20

Lowest Channel / 10MHz / 16QAM



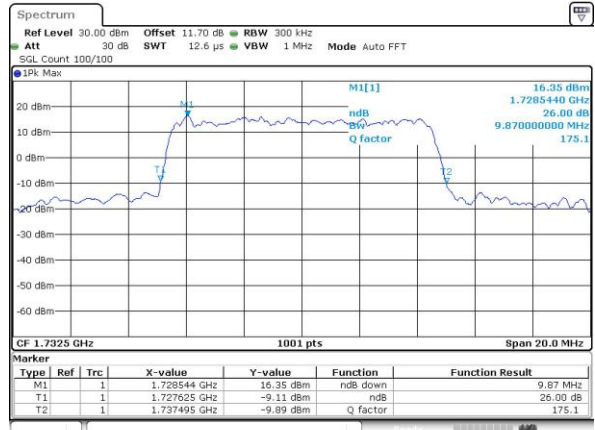
Date: 4.NOV.2016 17:20:32

Middle Channel / 10MHz / QPSK



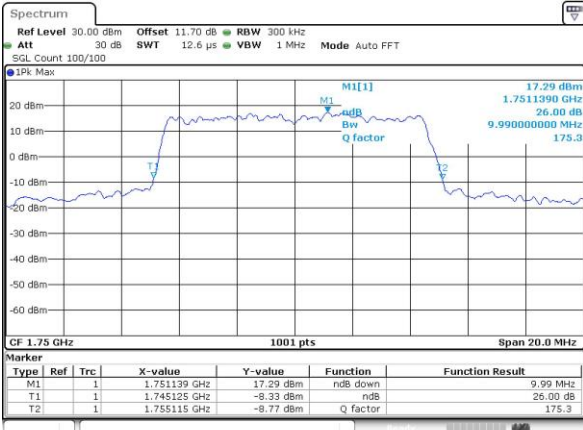
Date: 4.NOV.2016 17:27:41

Middle Channel / 10MHz / 16QAM



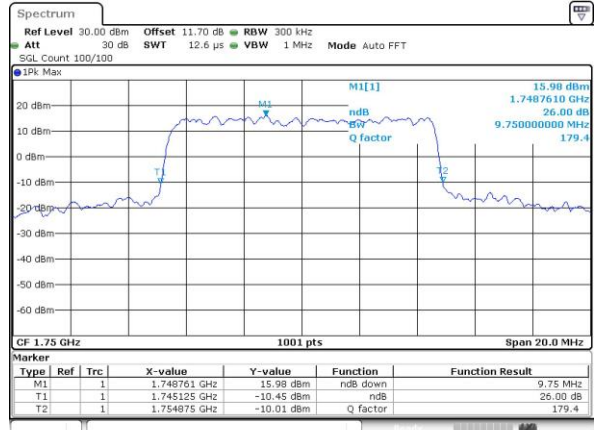
Date: 4.NOV.2016 17:27:52

Highest Channel / 10MHz / QPSK



Date: 4.NOV.2016 17:30:24

Highest Channel / 10MHz / 16QAM

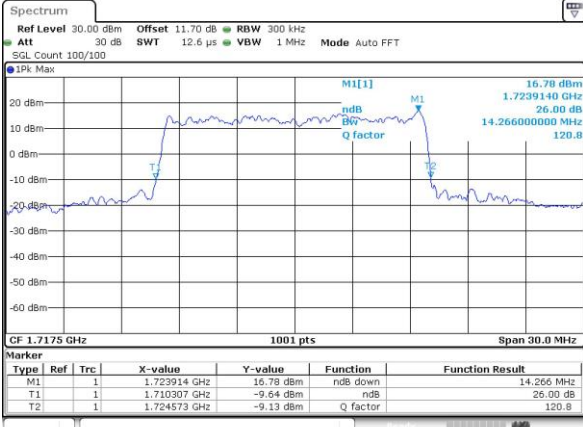


Date: 4.NOV.2016 17:30:36



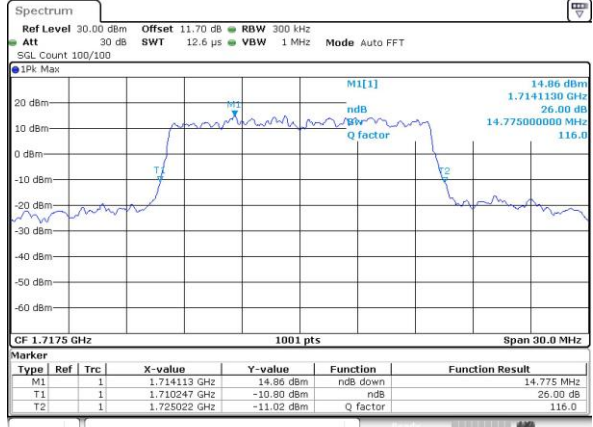
LTE Band 4

Lowest Channel / 15MHz / QPSK



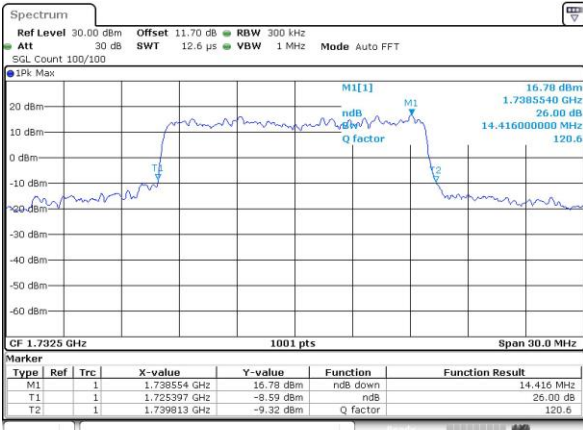
Date: 4.NOV.2016 17:37:45

Lowest Channel / 15MHz / 16QAM



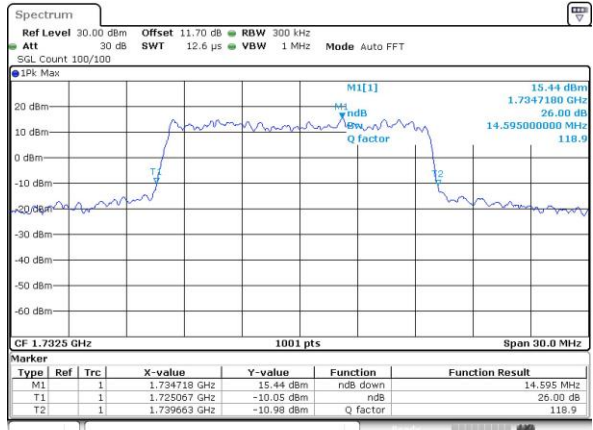
Date: 4.NOV.2016 17:37:57

Middle Channel / 15MHz / QPSK



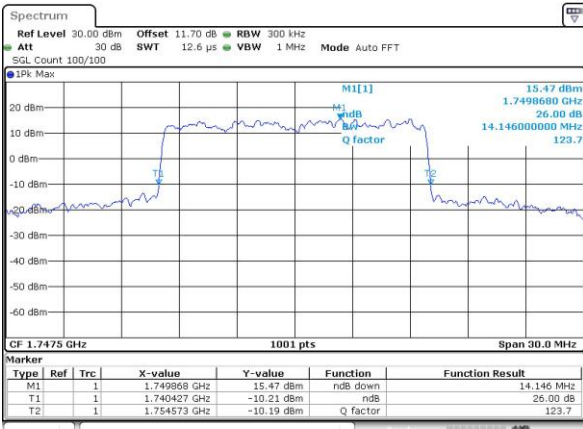
Date: 4.NOV.2016 17:45:07

Middle Channel / 15MHz / 16QAM



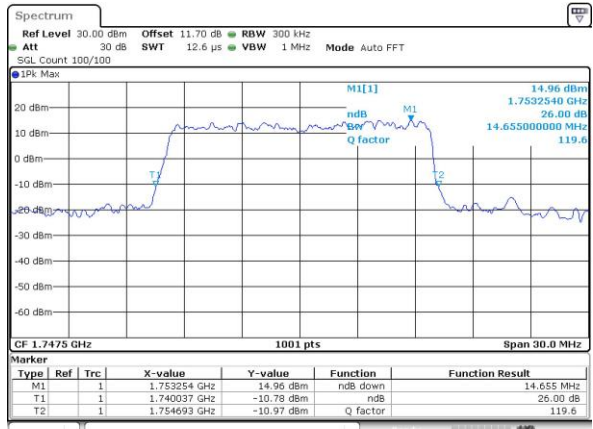
Date: 4.NOV.2016 17:45:19

Highest Channel / 15MHz / QPSK



Date: 4.NOV.2016 17:47:50

Highest Channel / 15MHz / 16QAM

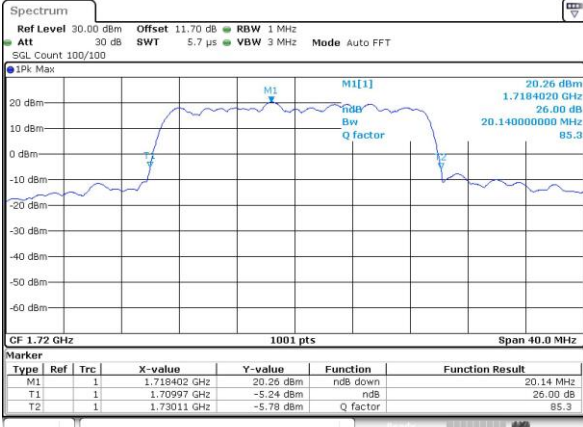


Date: 4.NOV.2016 17:48:02



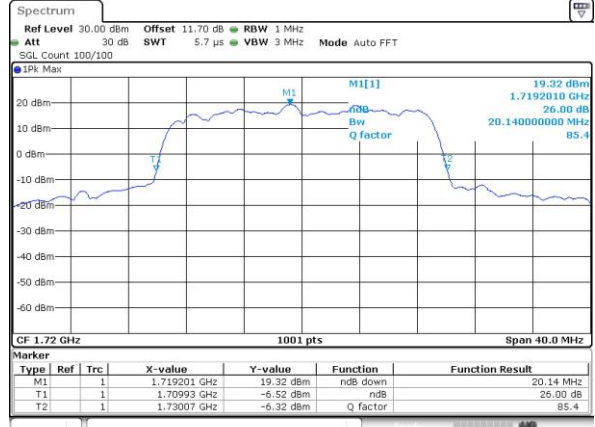
LTE Band 4

Lowest Channel / 20MHz / QPSK



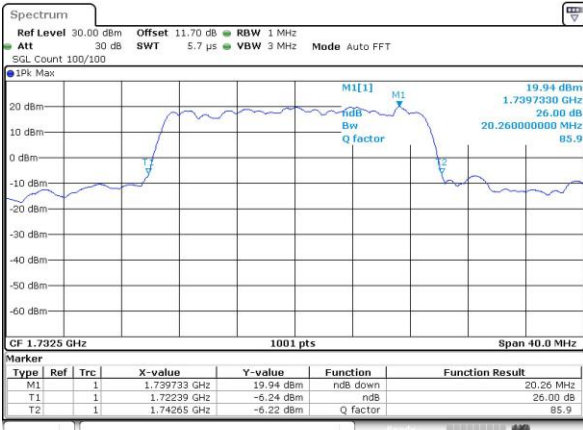
Date: 4.NOV.2016 17:55:11

Lowest Channel / 20MHz / 16QAM



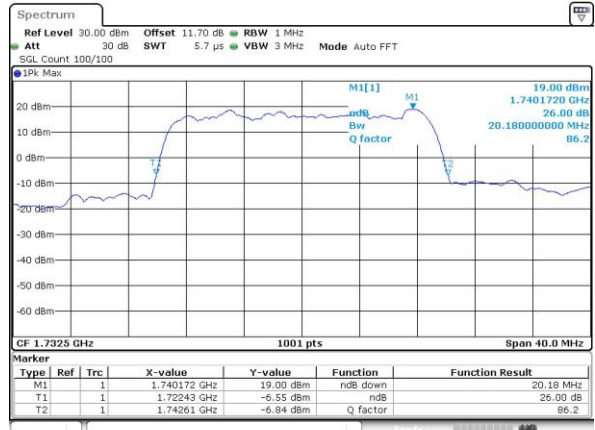
Date: 4.NOV.2016 17:55:23

Middle Channel / 20MHz / QPSK



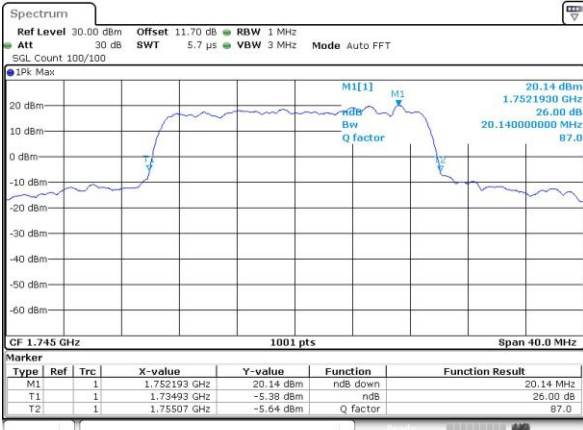
Date: 4.NOV.2016 18:02:32

Middle Channel / 20MHz / 16QAM



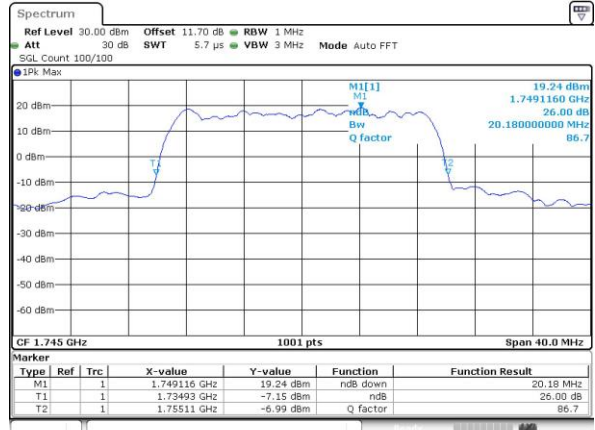
Date: 4.NOV.2016 18:02:43

Highest Channel / 20MHz / QPSK



Date: 4.NOV.2016 18:05:15

Highest Channel / 20MHz / 16QAM



Date: 4.NOV.2016 18:05:26



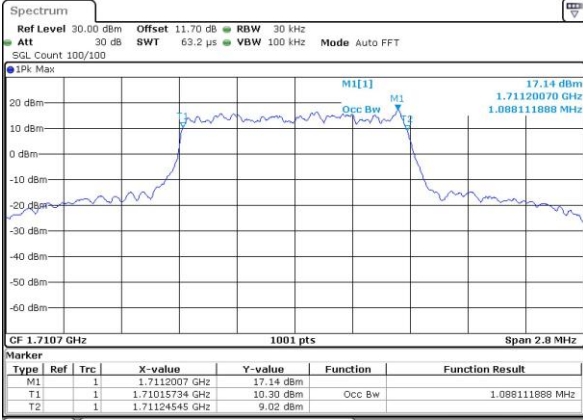
Occupied Bandwidth

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
Lowest CH	1.09	1.09	2.73	2.73	4.5	4.5	9.05	9.15	13.4	13.46	18.46	18.38
Middle CH	1.1	1.09	2.73	2.73	4.5	4.5	9.13	9.05	13.49	13.46	18.46	18.54
Highest CH	1.1	1.1	2.72	2.74	4.5	4.48	9.07	9.01	13.49	13.52	18.5	18.5



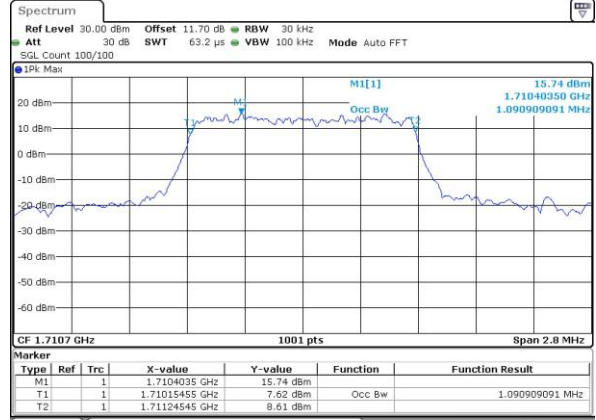
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



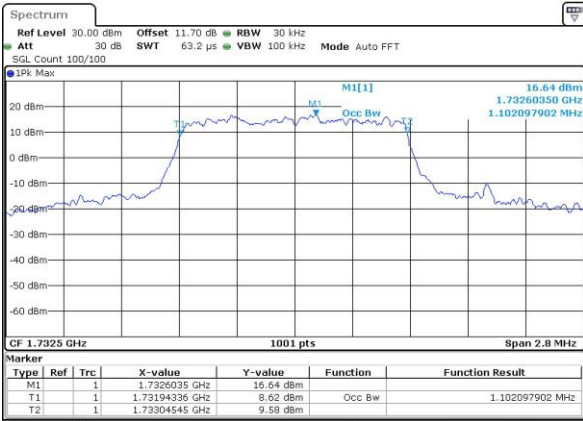
Date: 4.NOV.2016 18:12:12

Lowest Channel / 1.4MHz / 16QAM



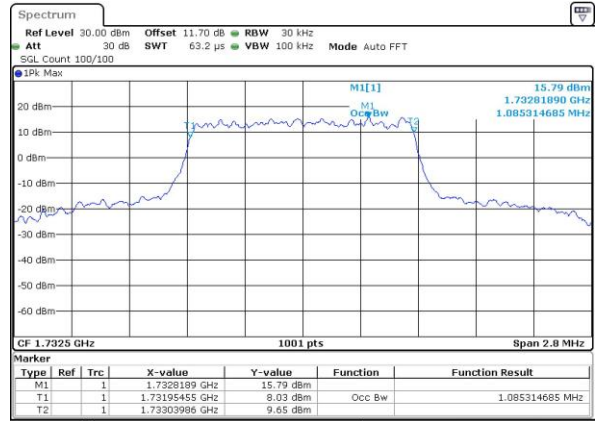
Date: 4.NOV.2016 18:12:23

Middle Channel / 1.4MHz / QPSK



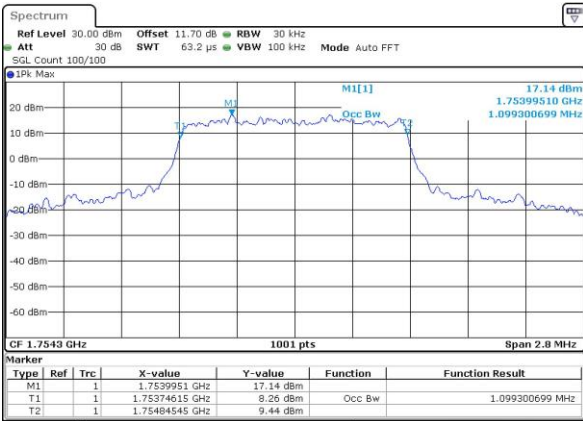
Date: 4.NOV.2016 18:19:32

Middle Channel / 1.4MHz / 16QAM



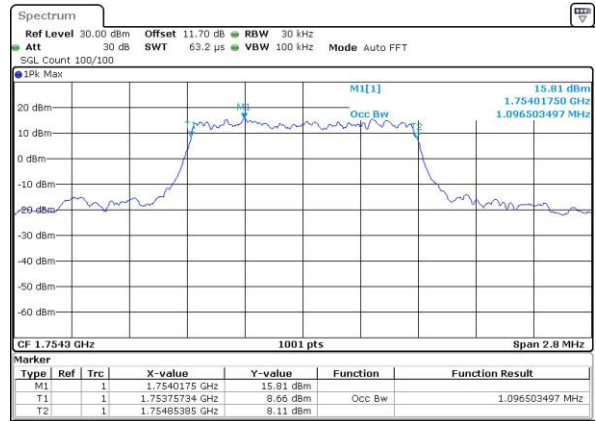
Date: 4.NOV.2016 18:19:43

Highest Channel / 1.4MHz / QPSK



Date: 4.NOV.2016 18:22:14

Highest Channel / 1.4MHz / 16QAM

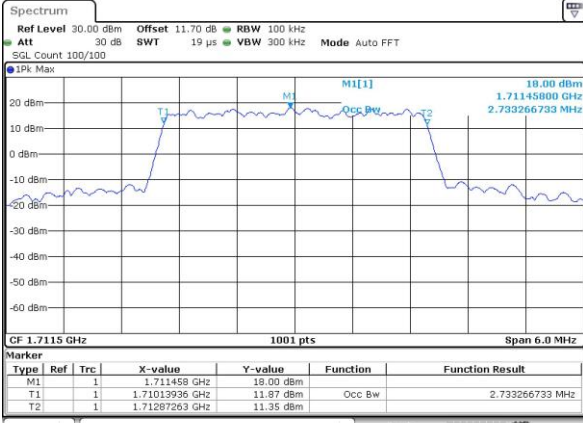


Date: 4.NOV.2016 18:22:26



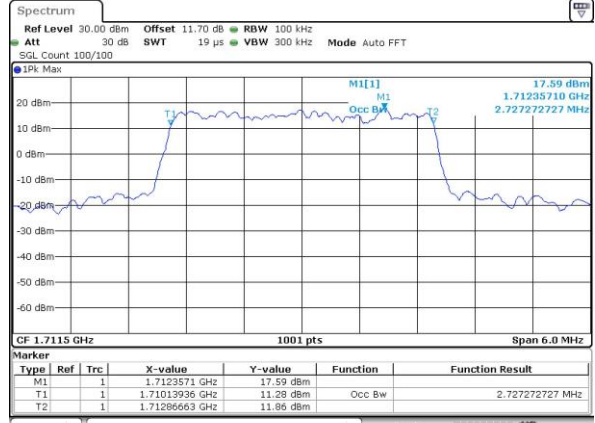
LTE Band 4

Lowest Channel / 3MHz / QPSK



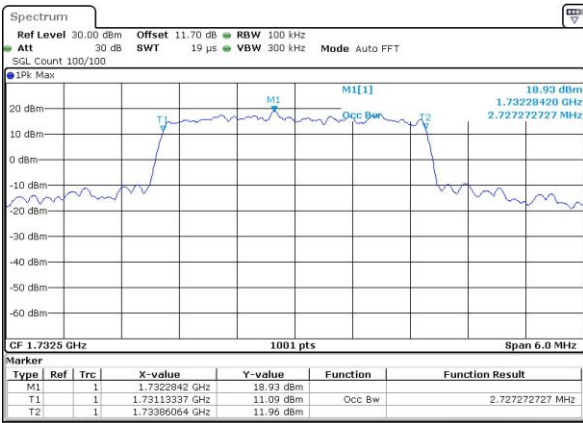
Date: 4.NOV.2016 16:45:03

Lowest Channel / 3MHz / 16QAM



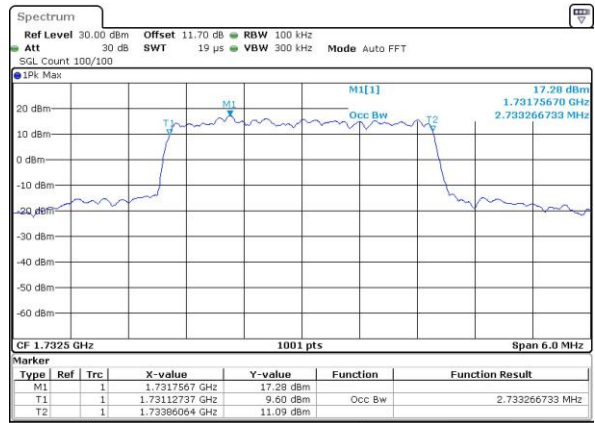
Date: 4.NOV.2016 16:45:15

Middle Channel / 3MHz / QPSK



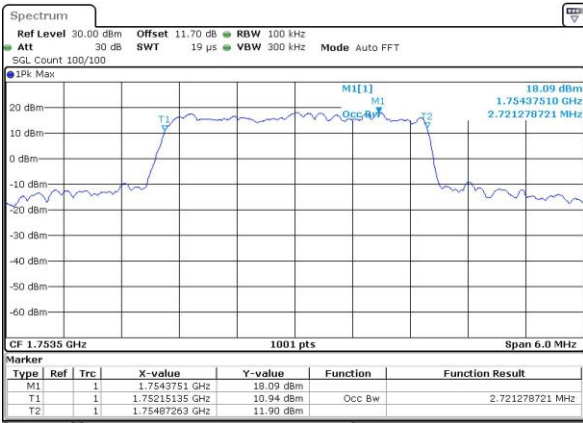
Date: 4.NOV.2016 16:52:05

Middle Channel / 3MHz / 16QAM



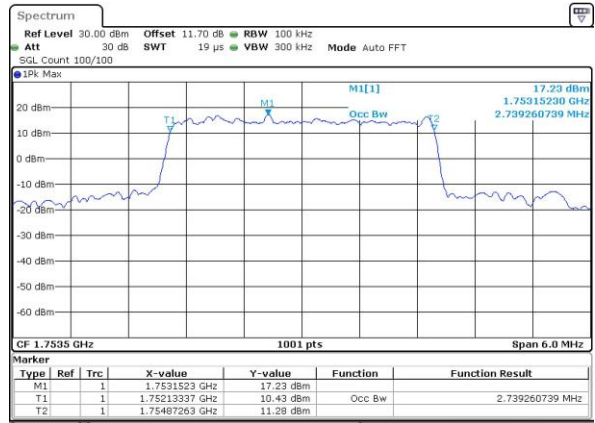
Date: 4.NOV.2016 16:52:37

Highest Channel / 3MHz / QPSK



Date: 4.NOV.2016 16:55:09

Highest Channel / 3MHz / 16QAM

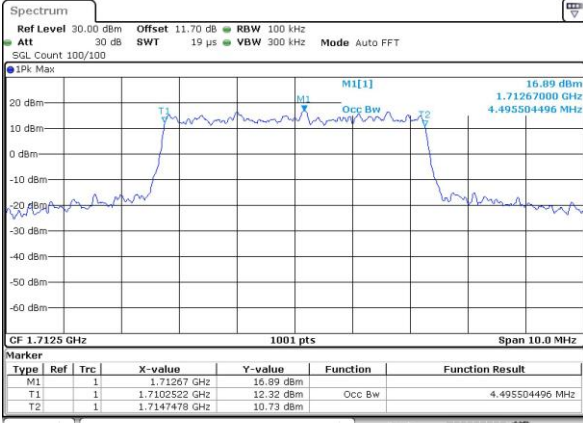


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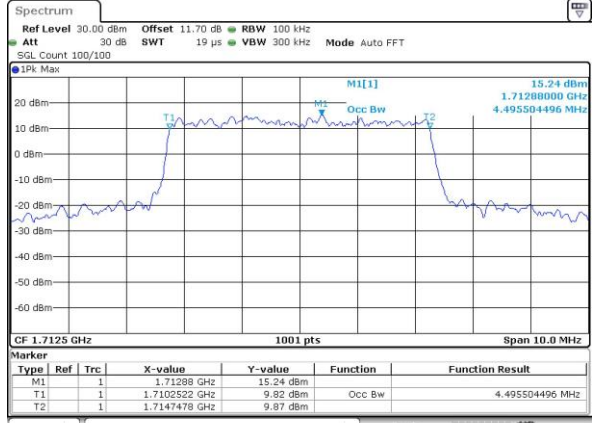
LTE Band 4

Lowest Channel / 5MHz / QPSK



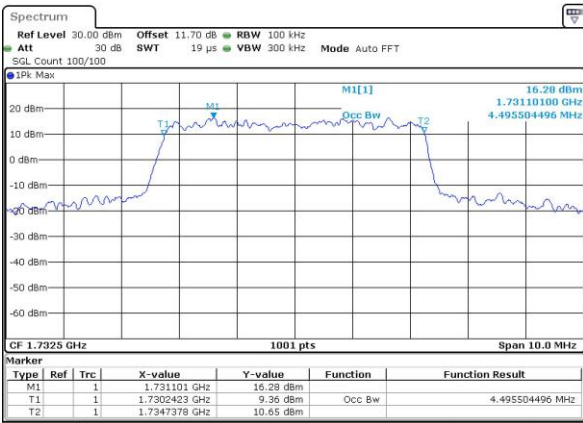
Date: 4.NOV.2016 17:02:30

Lowest Channel / 5MHz / 16QAM



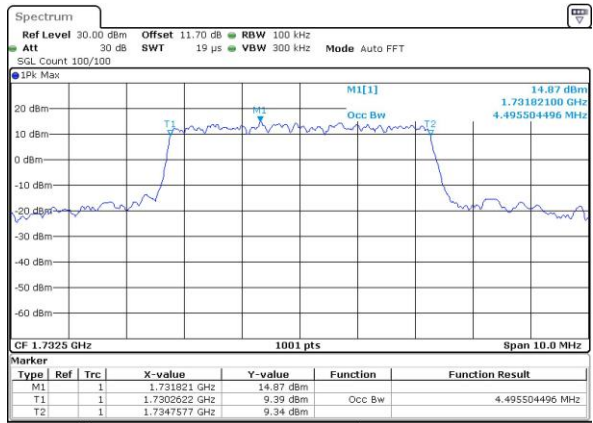
Date: 4.NOV.2016 17:02:42

Middle Channel / 5MHz / QPSK



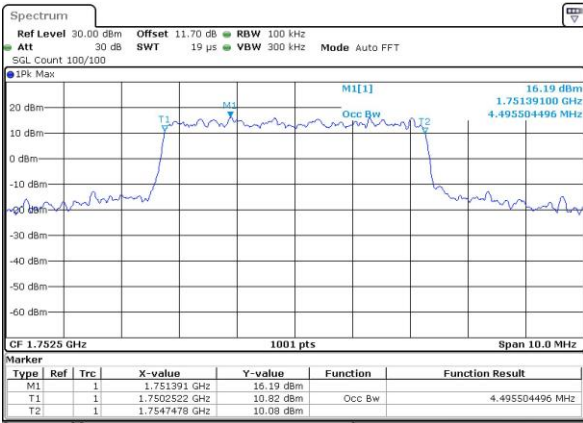
Date: 4.NOV.2016 17:09:51

Middle Channel / 5MHz / 16QAM



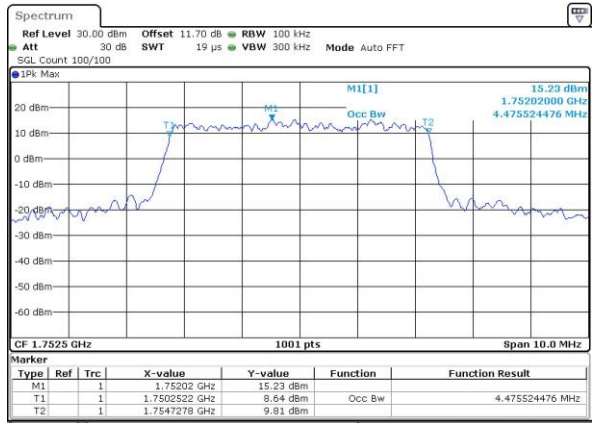
Date: 4.NOV.2016 17:10:03

Highest Channel / 5MHz / QPSK



Date: 4.NOV.2016 17:12:35

Highest Channel / 5MHz / 16QAM

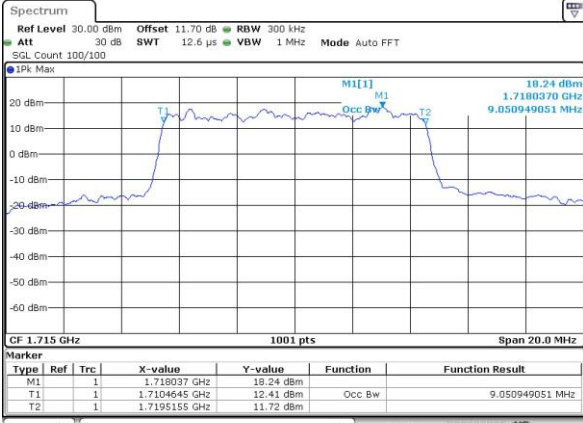


Date: 4.NOV.2016 17:12:47



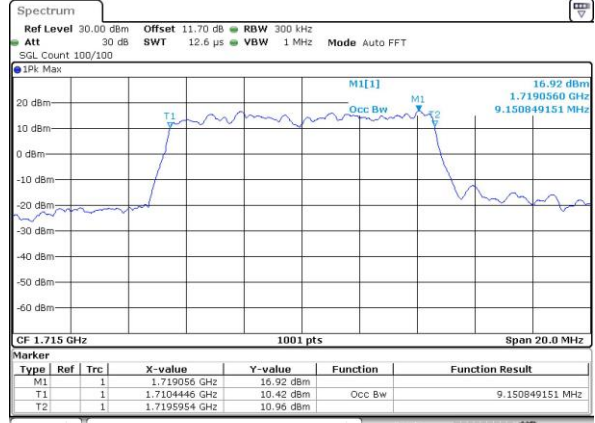
LTE Band 4

Lowest Channel / 10MHz / QPSK



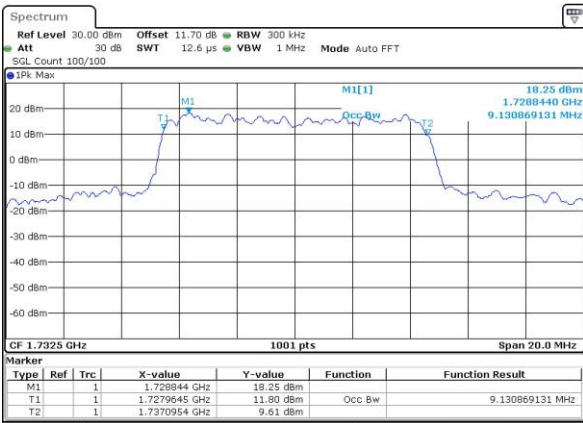
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Lowest Channel / 10MHz / 16QAM



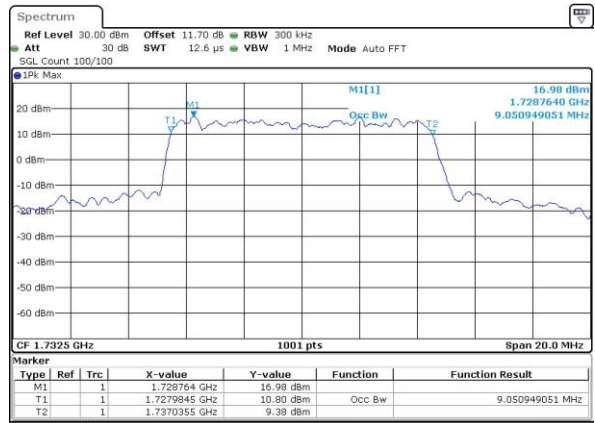
Date: 4.NOV.2016 17:20:08

Middle Channel / 10MHz / QPSK



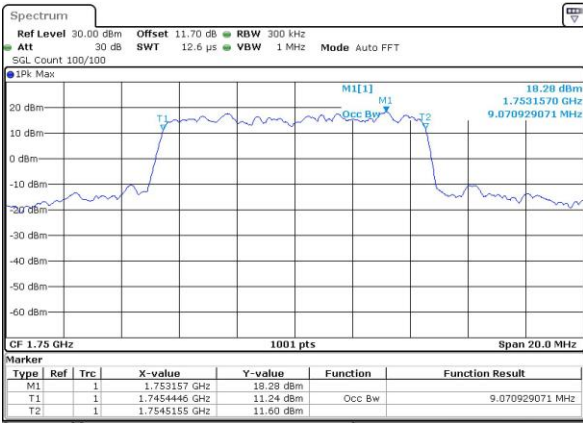
Date: 4.NOV.2016 17:27:17

Middle Channel / 10MHz / 16QAM



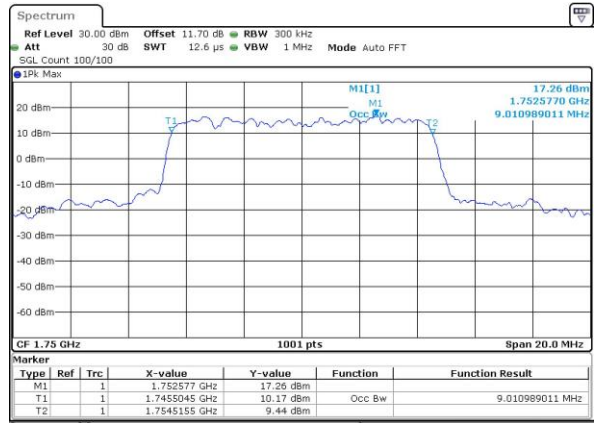
Date: 4.NOV.2016 17:27:29

Highest Channel / 10MHz / QPSK



Date: 4.NOV.2016 17:30:01

Highest Channel / 10MHz / 16QAM

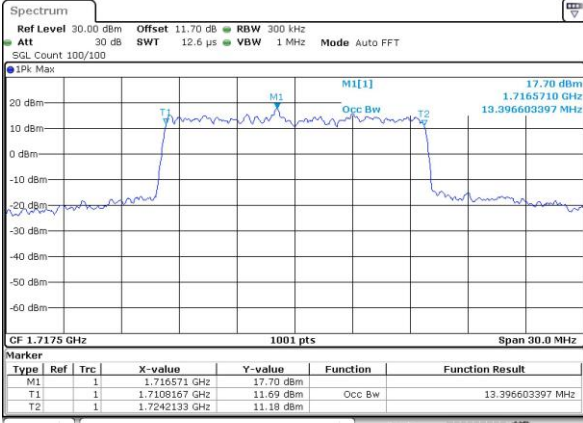


Date: 4.NOV.2016 17:30:12



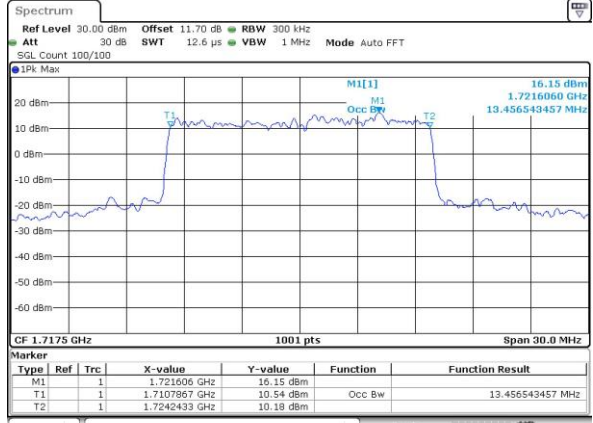
LTE Band 4

Lowest Channel / 15MHz / QPSK



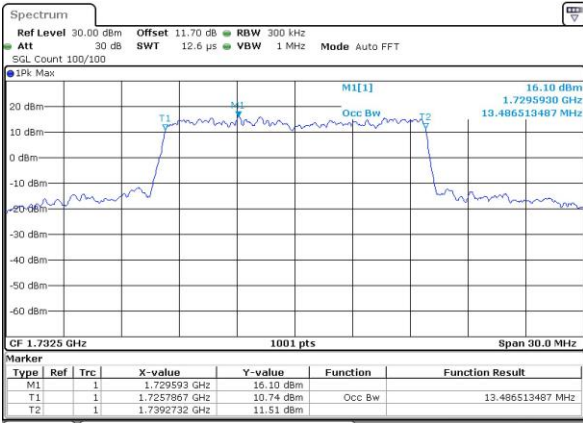
Date: 4.NOV.2016 17:37:22

Lowest Channel / 15MHz / 16QAM



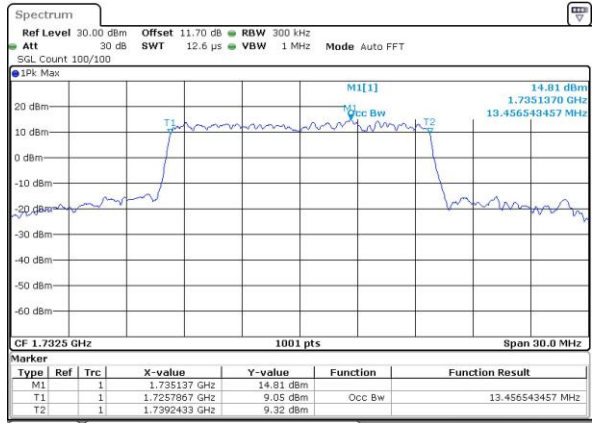
Date: 4.NOV.2016 17:37:33

Middle Channel / 15MHz / QPSK



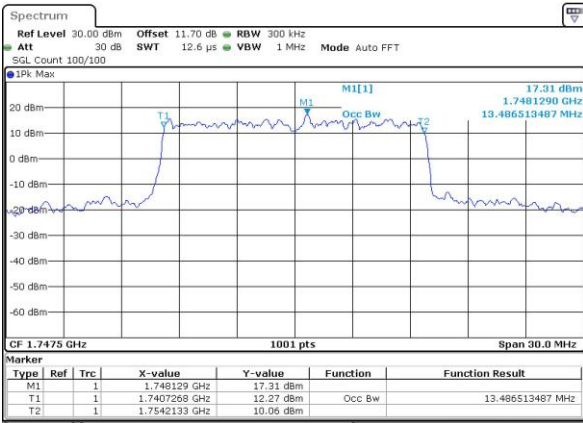
Date: 4.NOV.2016 17:44:43

Middle Channel / 15MHz / 16QAM



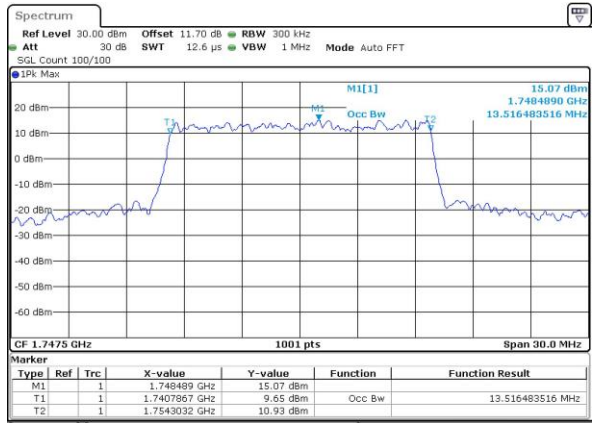
Date: 4.NOV.2016 17:44:55

Highest Channel / 15MHz / QPSK



Date: 4.NOV.2016 17:47:27

Highest Channel / 15MHz / 16QAM

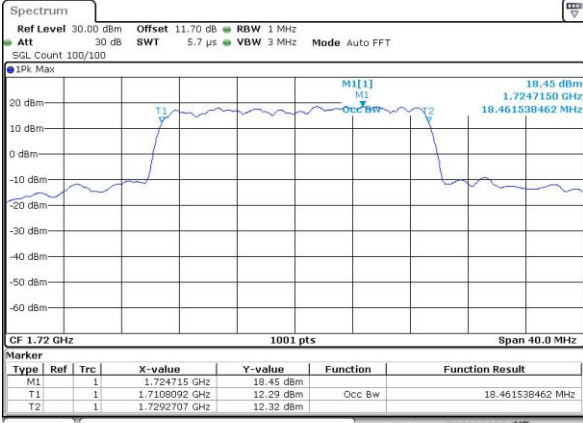


Date: 4.NOV.2016 17:47:39



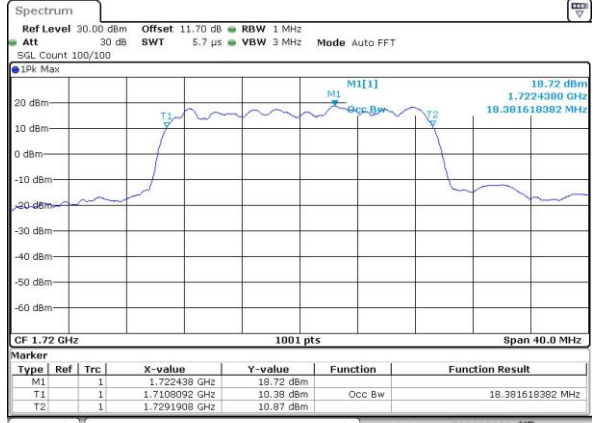
LTE Band 4

Lowest Channel / 20MHz / QPSK



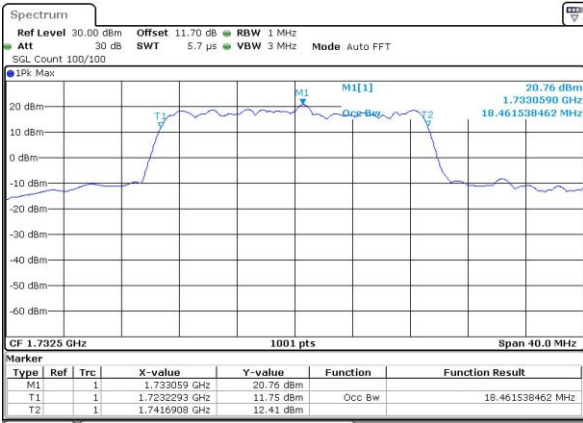
Date: 4.NOV.2016 17:54:48

Lowest Channel / 20MHz / 16QAM



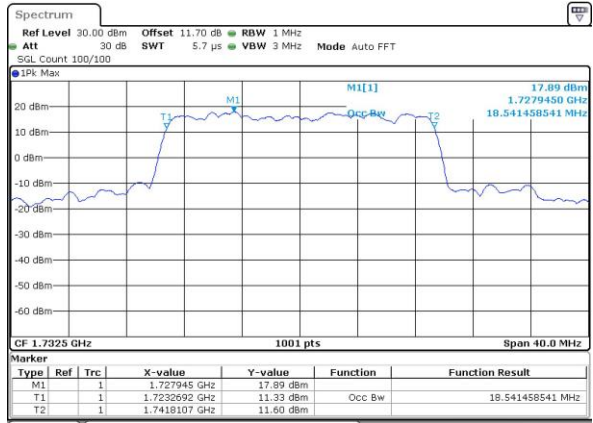
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Middle Channel / 20MHz / QPSK



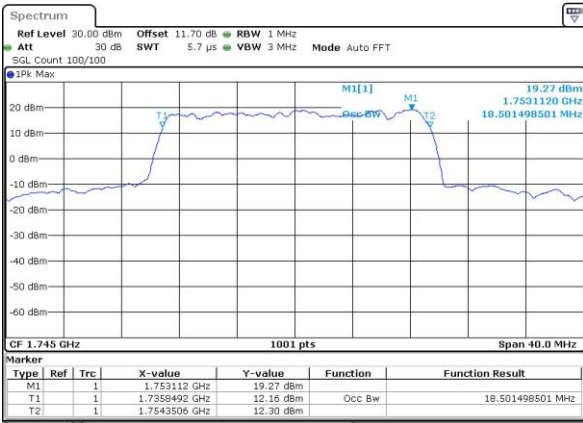
Date: 4.NOV.2016 18:02:09

Middle Channel / 20MHz / 16QAM



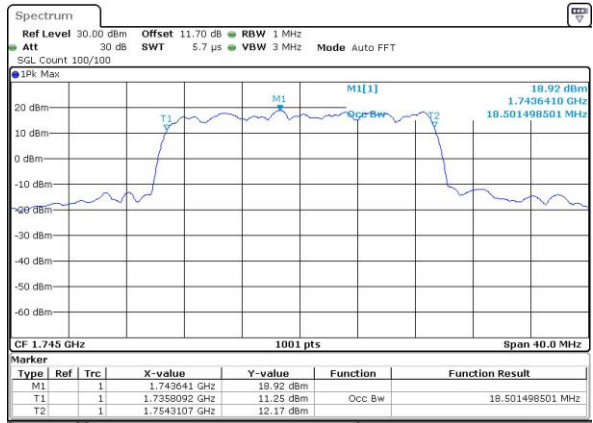
Date: 4.NOV.2016 18:02:20

Highest Channel / 20MHz / QPSK



Date: 4.NOV.2016 18:04:51

Highest Channel / 20MHz / 16QAM



Date: 4.NOV.2016 18:05:03