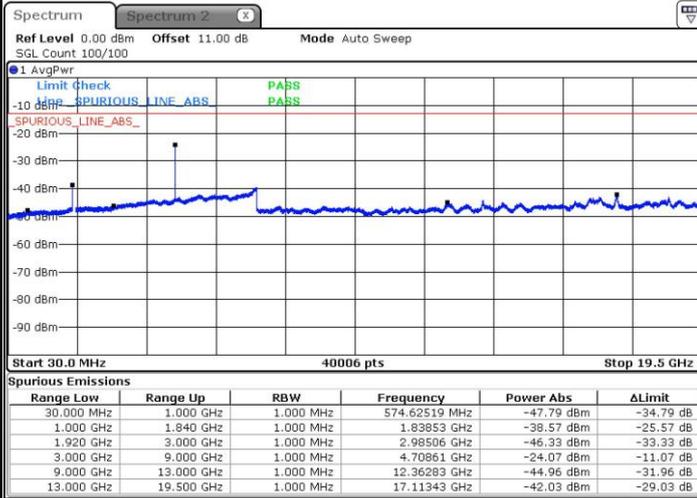




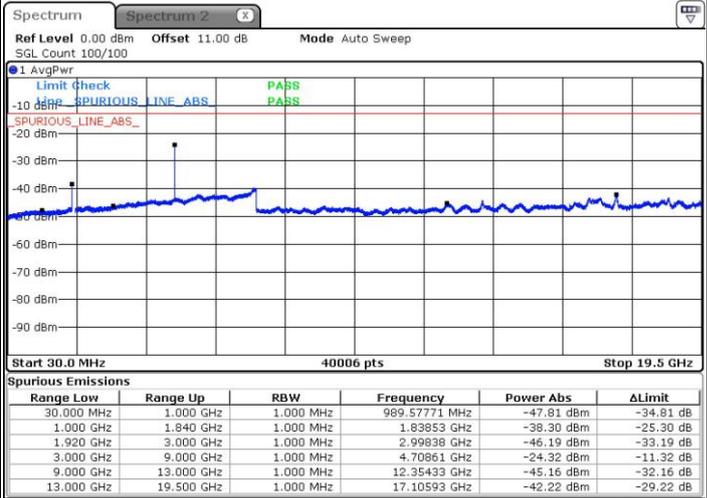
LTE Band 2 / 15MHz

Lowest Channel / QPSK



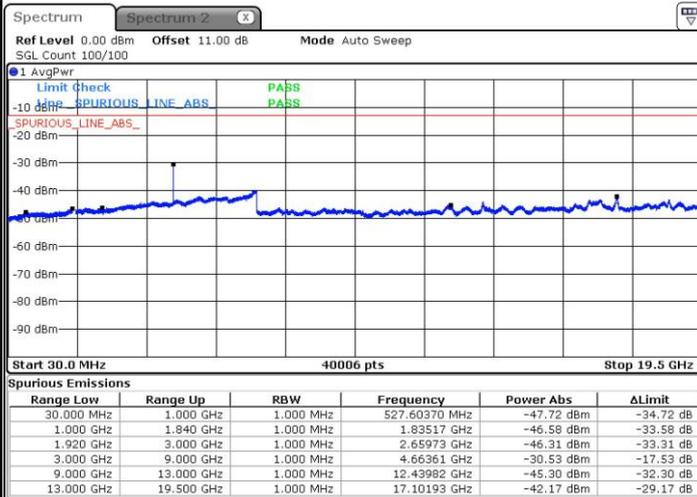
Date: 27.JUL.2016 20:40:39

Lowest Channel / 16QAM



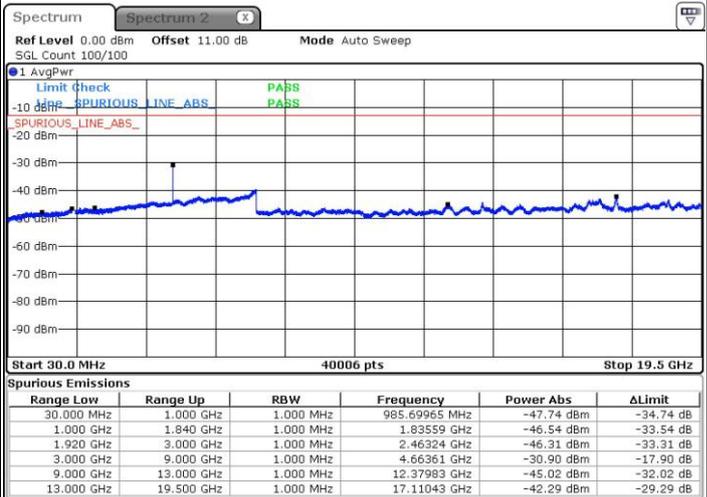
Date: 27.JUL.2016 20:41:36

Middle Channel / QPSK



Date: 27.JUL.2016 20:43:19

Middle Channel / 16QAM

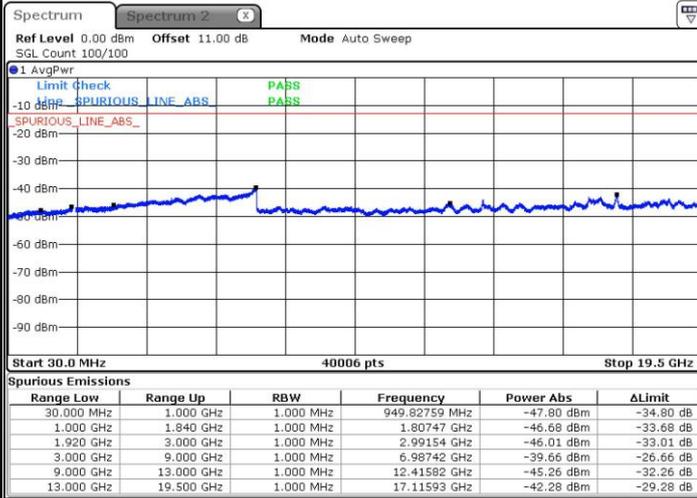


Date: 27.JUL.2016 20:44:16



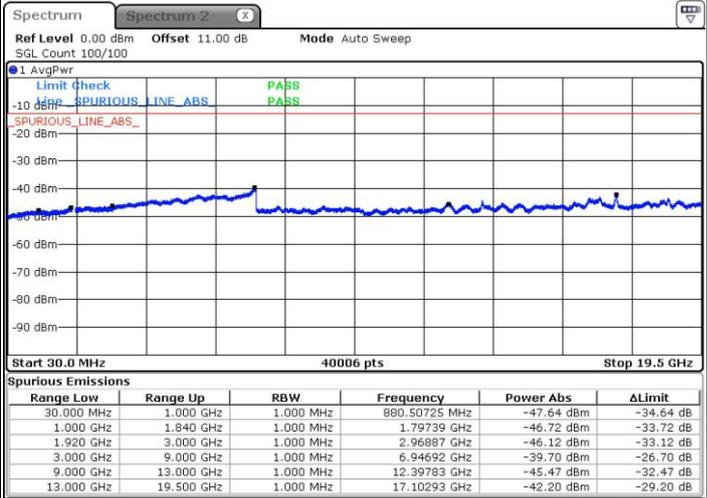
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 27.JUL.2016 20:50:37

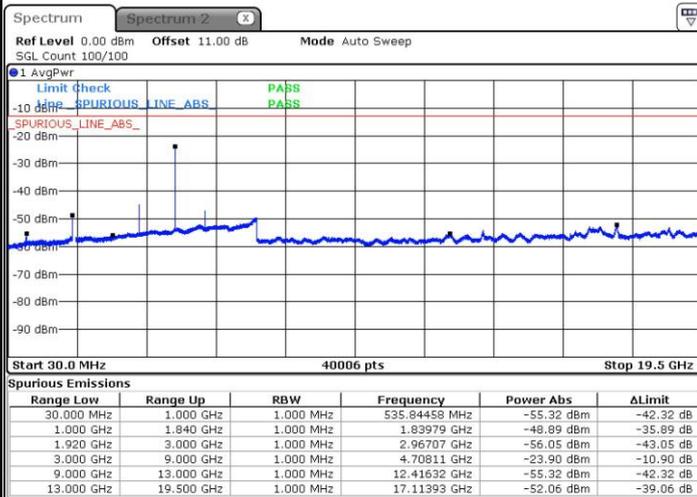
Highest Channel / 16QAM



Date: 27.JUL.2016 21:43:56

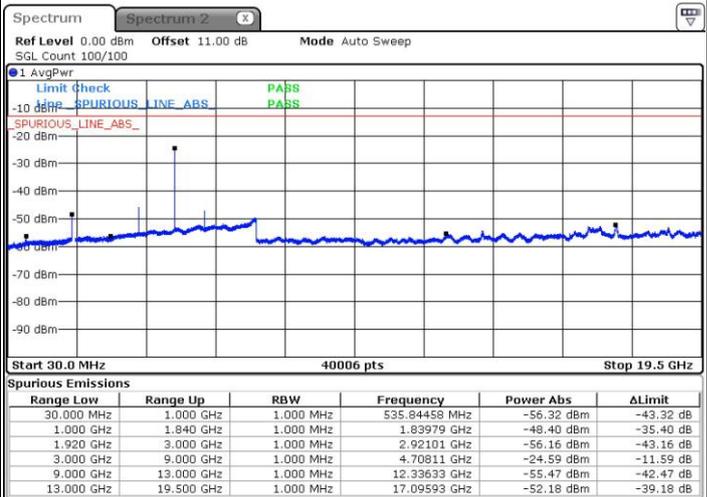
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 27.JUL.2016 21:01:53

Lowest Channel / 16QAM



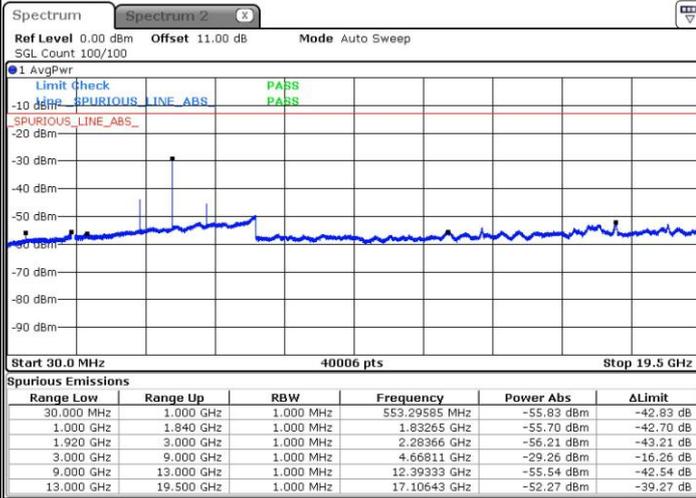
Date: 27.JUL.2016 21:02:49



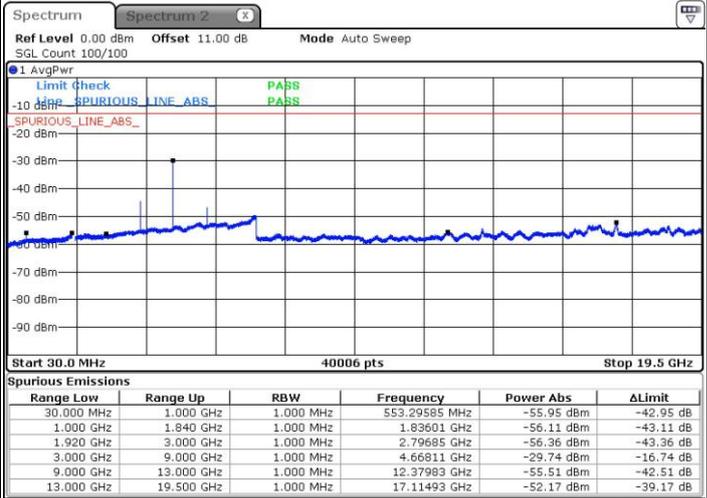
LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



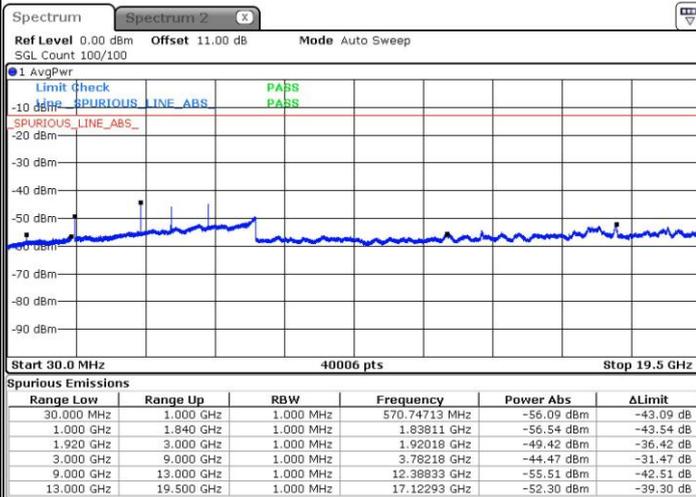
Date: 27.JUL.2016 21:04:33



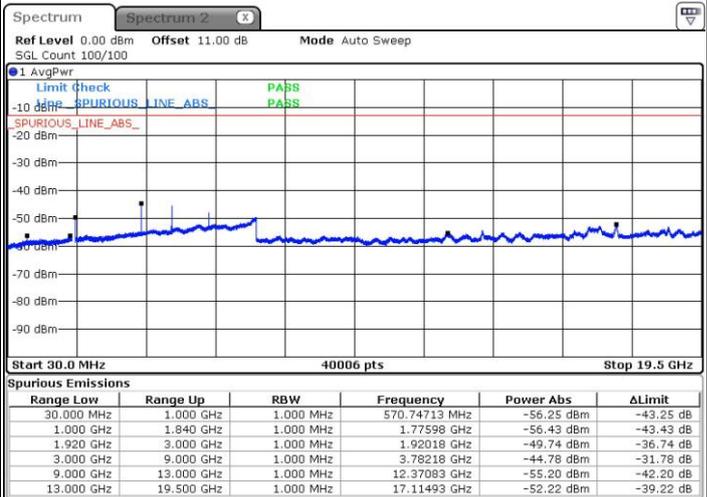
Date: 27.JUL.2016 21:05:29

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.JUL.2016 21:11:51



Date: 27.JUL.2016 21:12:47



**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	0.0004	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0124	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0110	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 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	4.58	4.43	5.36	5.62	<b>PASS</b>
Middle CH	3.57	4.23	4.72	5.42	
Highest CH	4.75	4.32	5.07	5.54	



LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 3,AUG,2016 14:13:20

Lowest Channel / Full RB



Date: 3,AUG,2016 14:13:32

Middle Channel / 1RB



Date: 3,AUG,2016 14:13:43

Middle Channel / Full RB



Date: 3,AUG,2016 14:13:54

Highest Channel / 1RB



Date: 3,AUG,2016 14:14:05

Highest Channel / Full RB

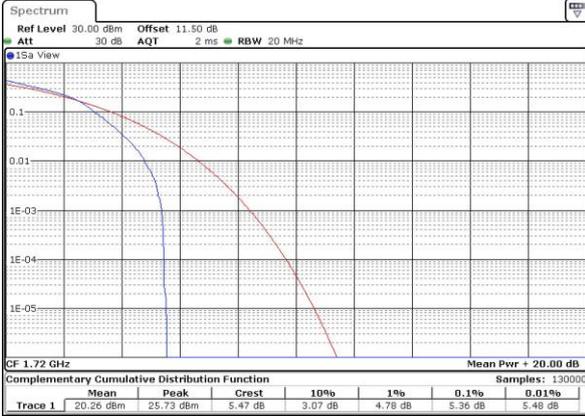


Date: 3,AUG,2016 14:14:16



LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



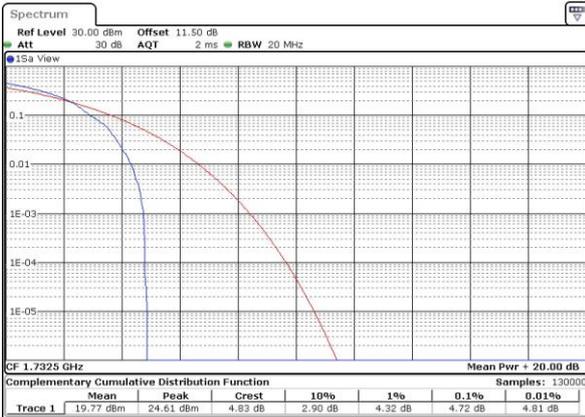
Date: 3,AUG.2016 14:11:52

Lowest Channel / Full RB



Date: 3,AUG.2016 14:12:17

Middle Channel / 1RB



Date: 3,AUG.2016 14:12:20

Middle Channel / Full RB



Date: 3,AUG.2016 14:12:45

Highest Channel / 1RB



Date: 3,AUG.2016 14:12:56

Highest Channel / Full RB



Date: 3,AUG.2016 14:13:08



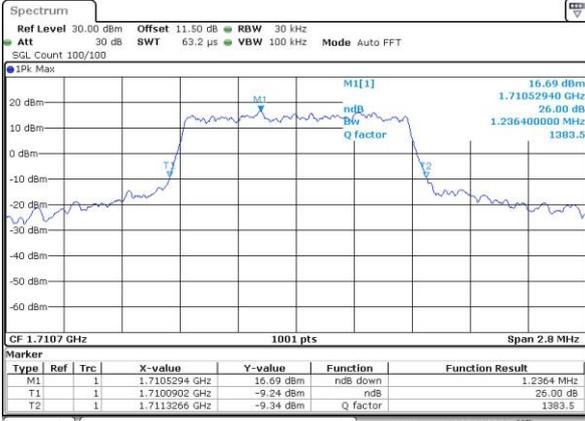
**26dB Bandwidth**

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	1.24	1.23	3.04	2.99	4.93	4.88	9.69	9.67	14.33	14.21	19.98	20.10
Middle CH	1.32	1.35	3.04	3.16	5.17	4.96	9.81	9.91	14.54	14.57	20.86	20.38
Highest CH	1.26	1.23	3.06	3.00	4.94	4.83	9.77	9.91	14.24	14.33	20.18	19.94



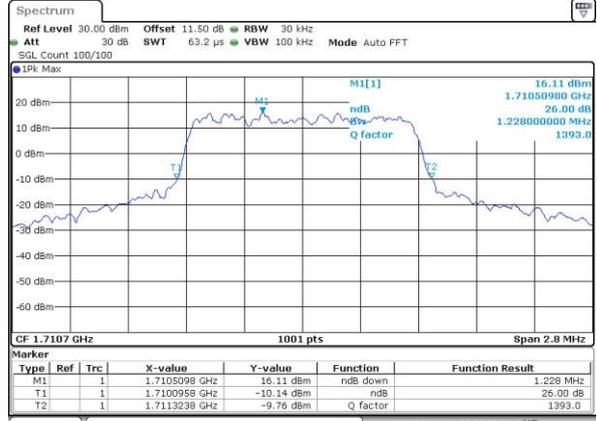
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



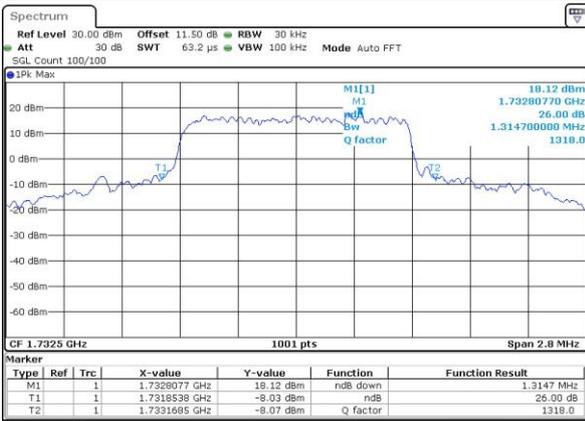
Date: 3,AUG.2016 13:54:00

Lowest Channel / 1.4MHz / 16QAM



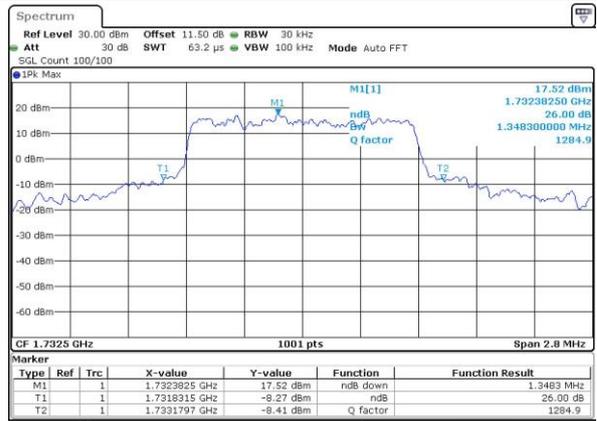
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Middle Channel / 1.4MHz / QPSK



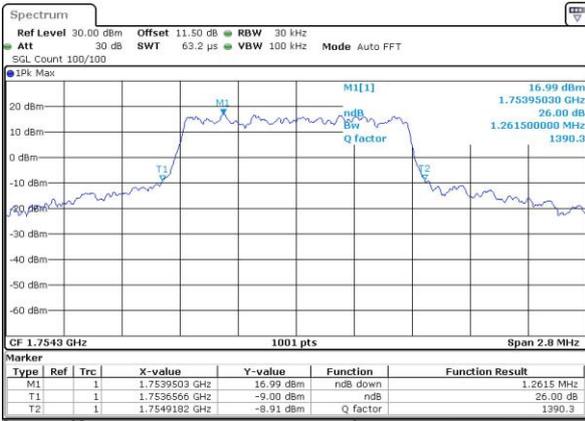
Date: 3,AUG.2016 14:01:21

Middle Channel / 1.4MHz / 16QAM



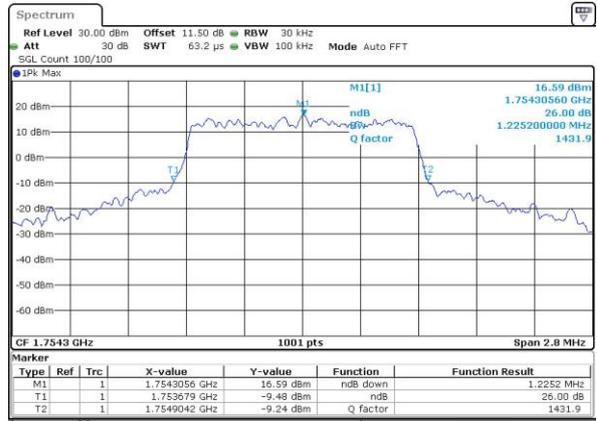
Date: 3,AUG.2016 14:01:33

Highest Channel / 1.4MHz / QPSK



Date: 3,AUG.2016 14:04:05

Highest Channel / 1.4MHz / 16QAM

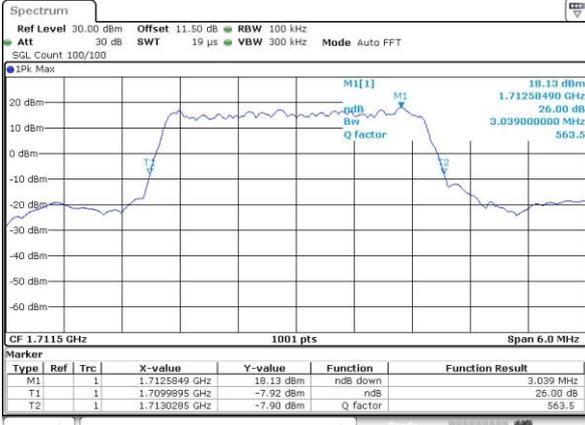


Date: 3,AUG.2016 14:04:16



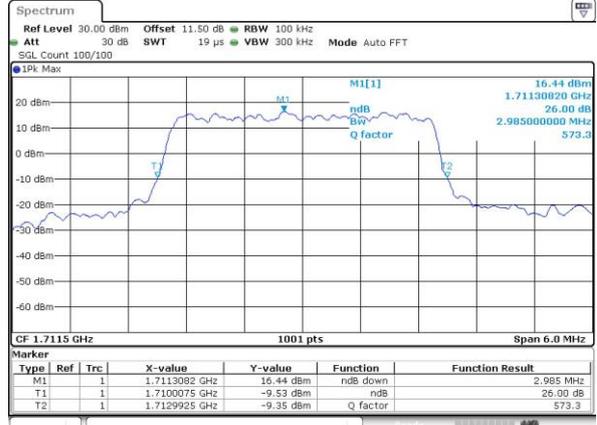
LTE Band 4

Lowest Channel / 3MHz / QPSK



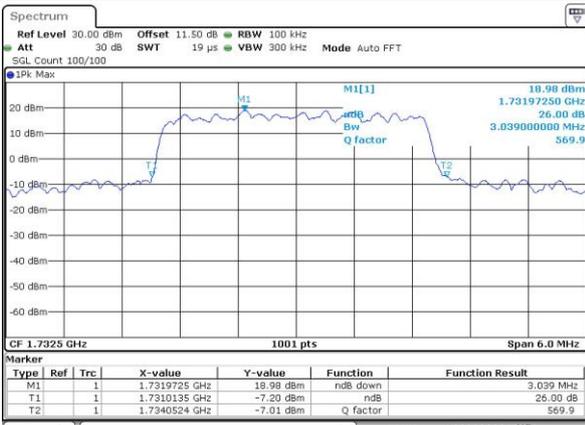
Date: 3,AUG,2016 09:26:46

Lowest Channel / 3MHz / 16QAM



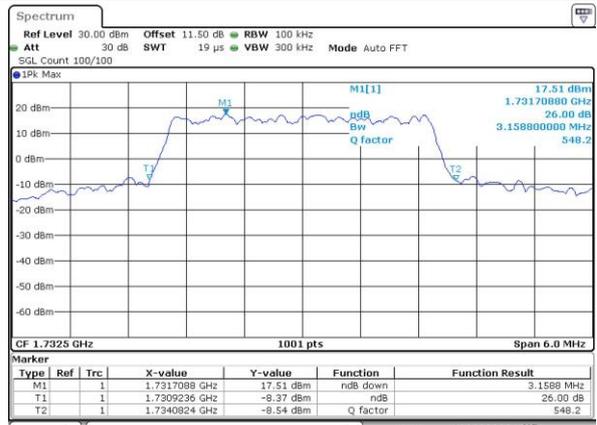
Date: 3,AUG,2016 09:26:58

Middle Channel / 3MHz / QPSK



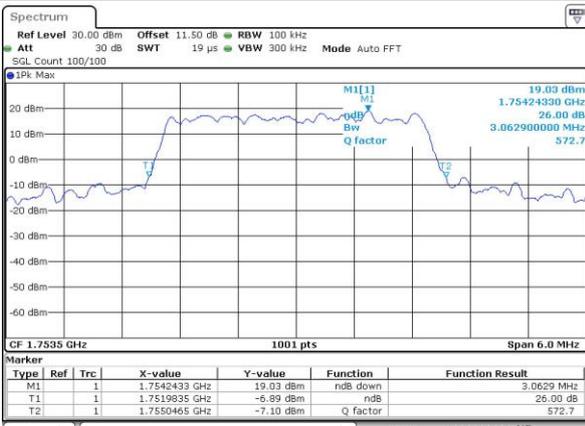
Date: 3,AUG,2016 09:34:07

Middle Channel / 3MHz / 16QAM



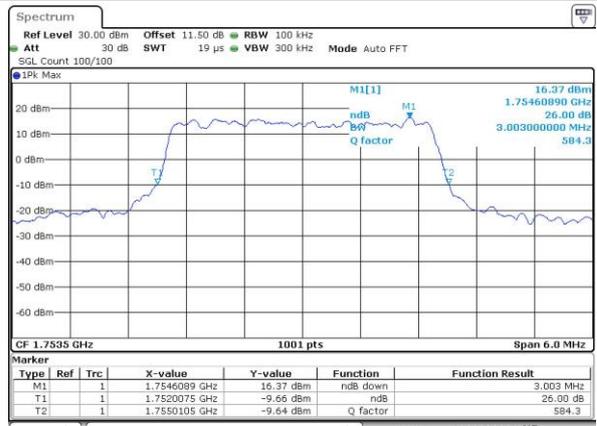
Date: 3,AUG,2016 09:34:19

Highest Channel / 3MHz / QPSK



Date: 3,AUG,2016 09:36:50

Highest Channel / 3MHz / 16QAM

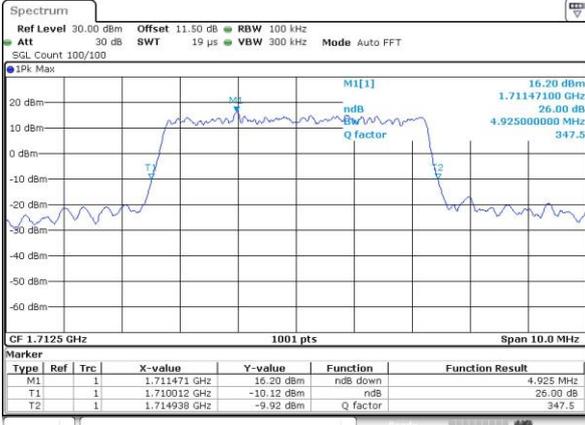


Date: 3,AUG,2016 09:37:02



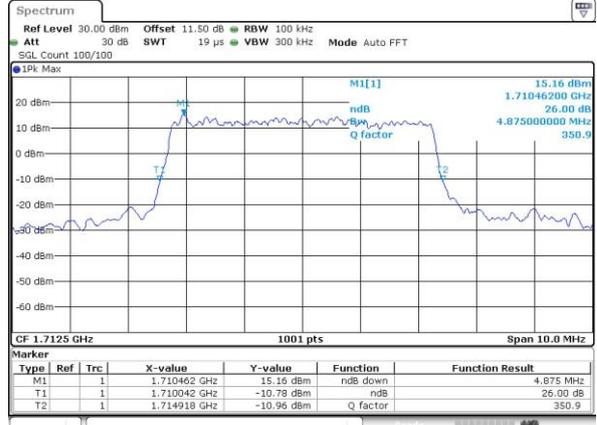
LTE Band 4

Lowest Channel / 5MHz / QPSK



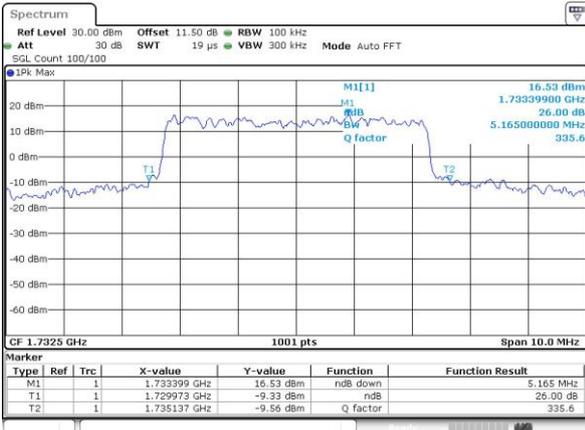
Date: 3.AUG.2016 09:44:11

Lowest Channel / 5MHz / 16QAM



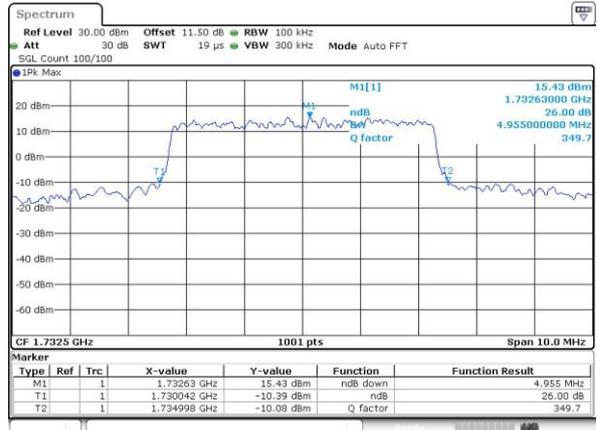
Date: 3.AUG.2016 09:44:22

Middle Channel / 5MHz / QPSK



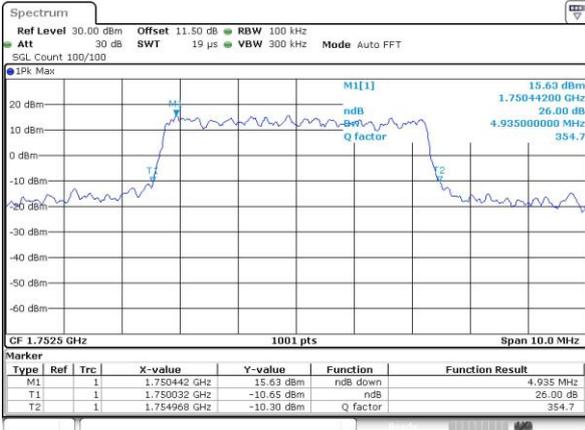
Date: 3.AUG.2016 09:51:32

Middle Channel / 5MHz / 16QAM



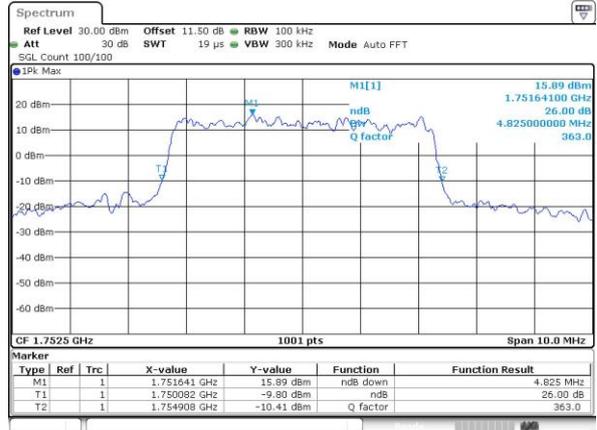
Date: 3.AUG.2016 09:51:43

Highest Channel / 5MHz / QPSK



Date: 3.AUG.2016 09:54:15

Highest Channel / 5MHz / 16QAM

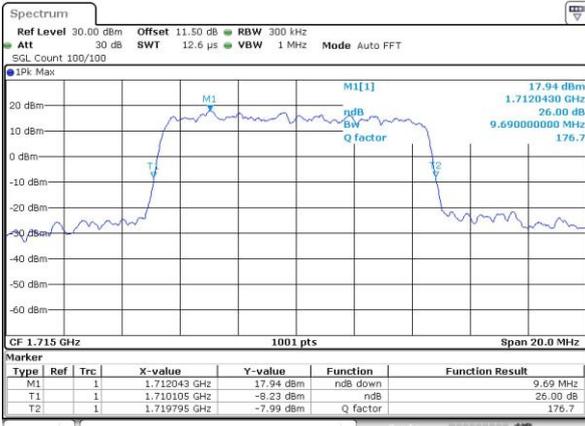


Date: 3.AUG.2016 09:54:26



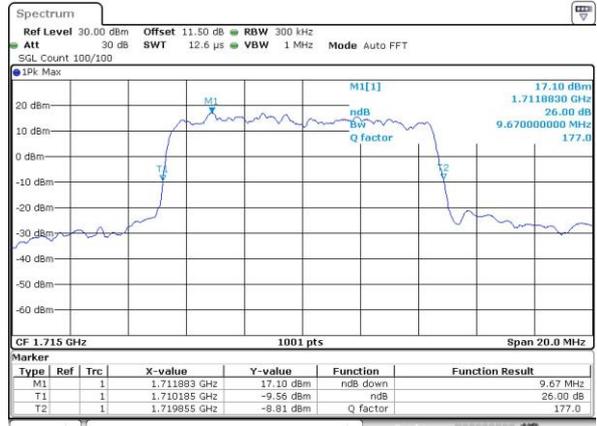
LTE Band 4

Lowest Channel / 10MHz / QPSK



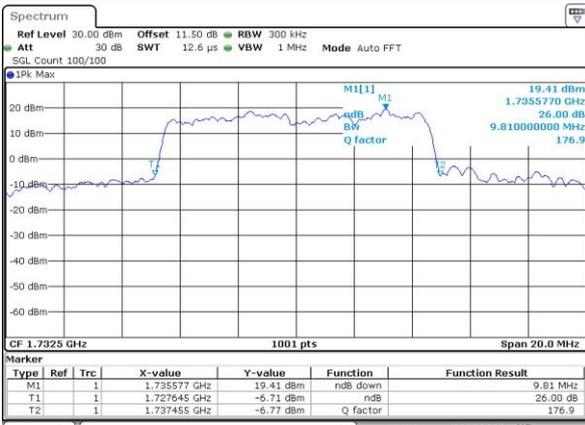
Date: 3,AUG,2016 10:31:00

Lowest Channel / 10MHz / 16QAM



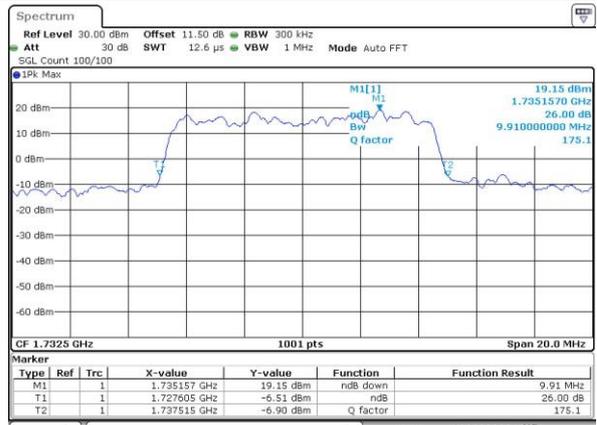
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Middle Channel / 10MHz / QPSK



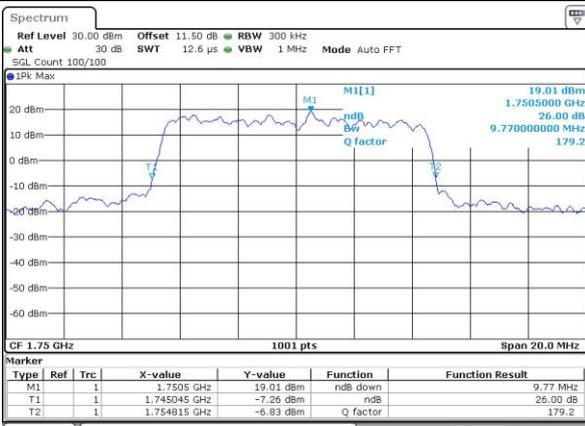
Date: 3,AUG,2016 10:38:21

Middle Channel / 10MHz / 16QAM



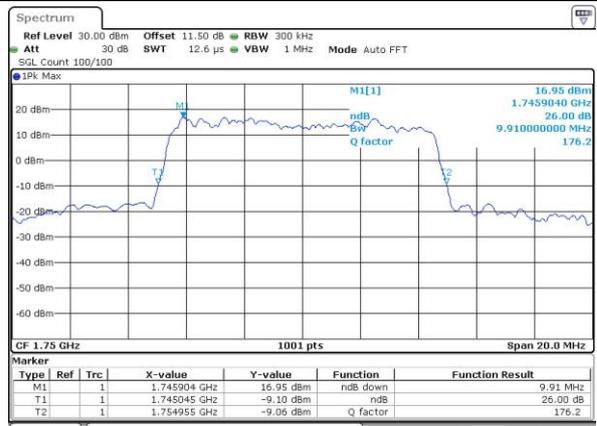
Date: 3,AUG,2016 10:38:33

Highest Channel / 10MHz / QPSK



Date: 3,AUG,2016 10:41:05

Highest Channel / 10MHz / 16QAM

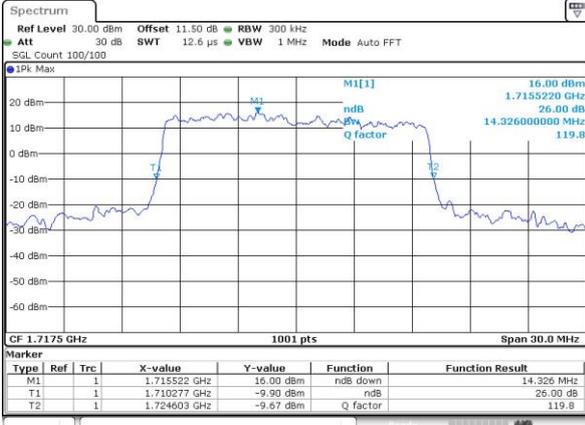


Date: 3,AUG,2016 10:41:16



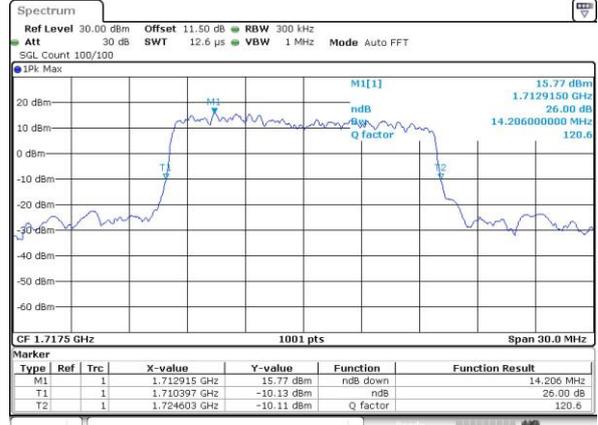
LTE Band 4

Lowest Channel / 15MHz / QPSK



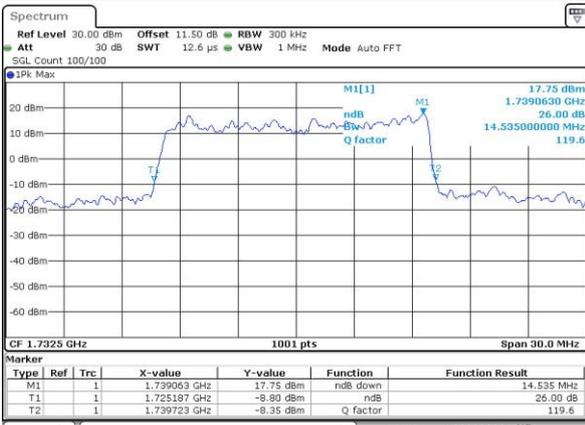
Date: 3,AUG,2016 11:49:30

Lowest Channel / 15MHz / 16QAM



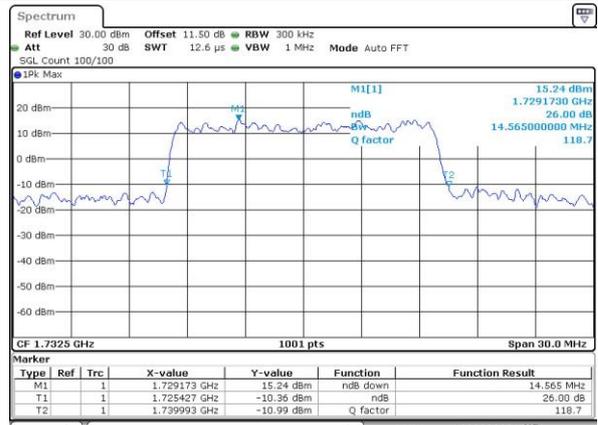
Date: 3,AUG,2016 11:49:42

Middle Channel / 15MHz / QPSK



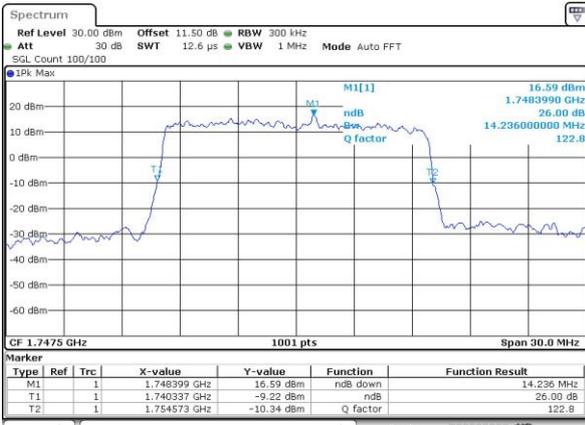
Date: 3,AUG,2016 11:56:52

Middle Channel / 15MHz / 16QAM



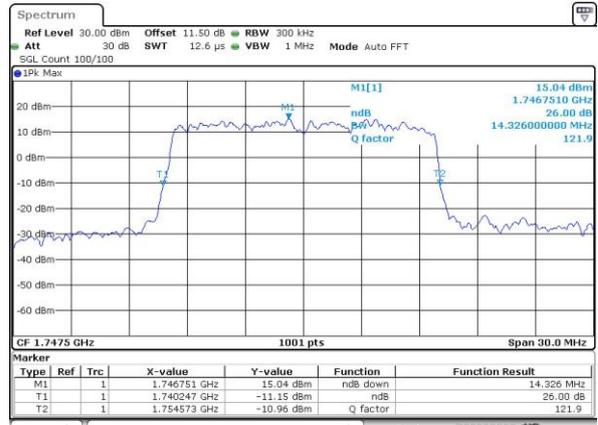
Date: 3,AUG,2016 11:57:04

Highest Channel / 15MHz / QPSK



Date: 3,AUG,2016 11:59:36

Highest Channel / 15MHz / 16QAM

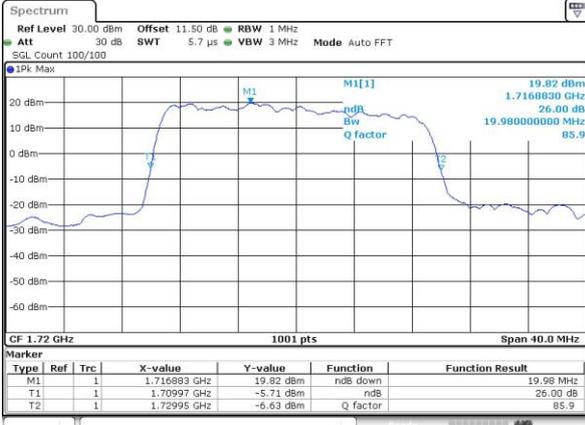


Date: 3,AUG,2016 11:59:47



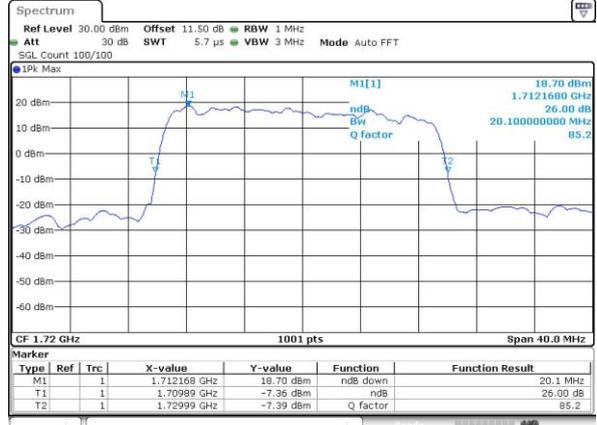
LTE Band 4

Lowest Channel / 20MHz / QPSK



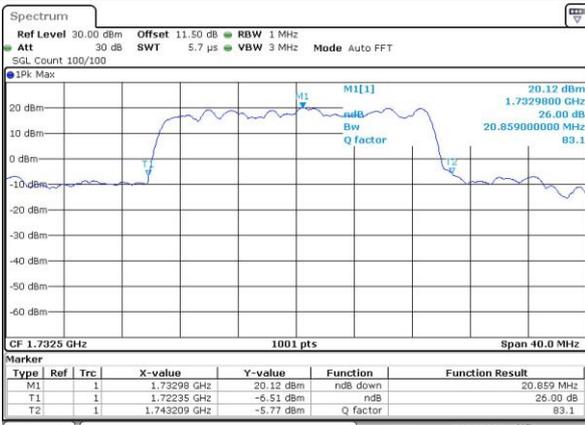
Date: 3,AUG,2016 13:35:56

Lowest Channel / 20MHz / 16QAM



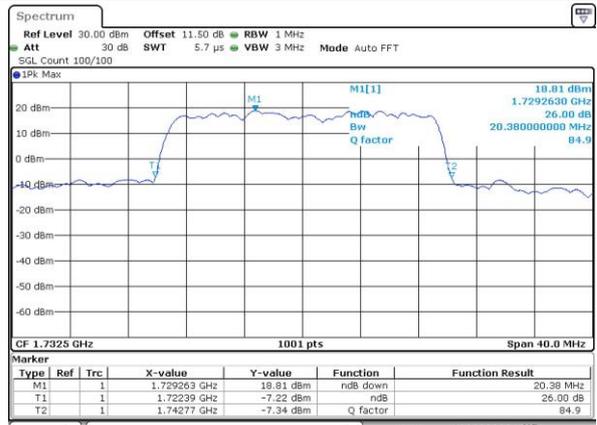
Date: 3,AUG,2016 13:36:08

Middle Channel / 20MHz / QPSK



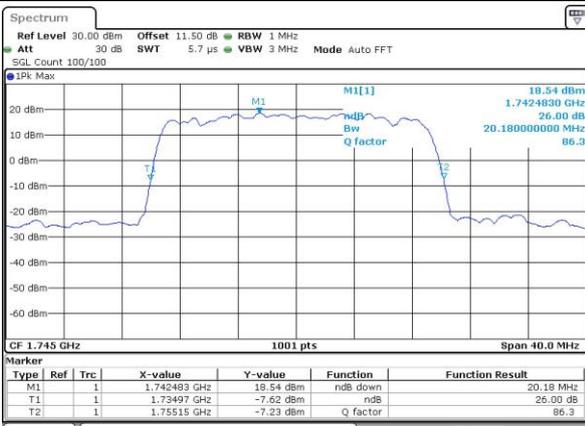
Date: 3,AUG,2016 13:43:19

Middle Channel / 20MHz / 16QAM



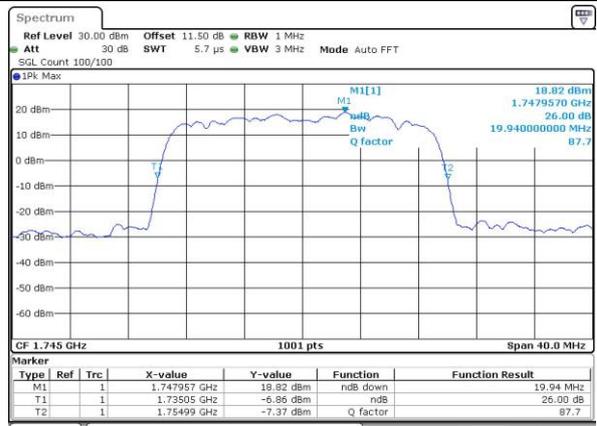
Date: 3,AUG,2016 13:43:31

Highest Channel / 20MHz / QPSK



Date: 3,AUG,2016 13:44:03

Highest Channel / 20MHz / 16QAM



Date: 3,AUG,2016 13:44:15



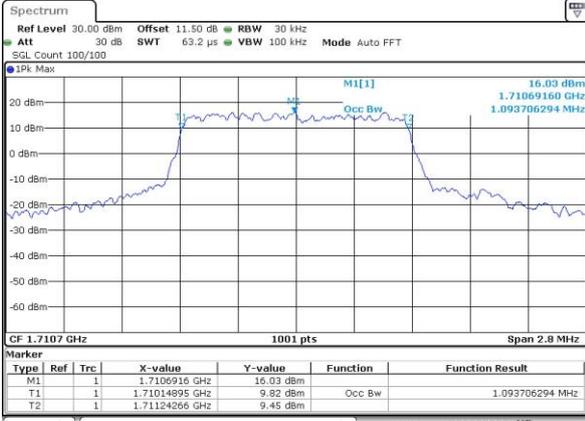
### Occupied Bandwidth

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	2.71	2.72	4.5	4.5	9.11	8.95	13.4	13.37	18.26	18.14
Middle CH	1.09	1.1	2.75	2.74	4.51	4.5	9.05	9.01	13.52	13.46	18.7	18.58
Highest CH	1.09	1.1	2.73	2.73	4.5	4.49	8.99	9.05	13.37	13.34	18.06	18.14



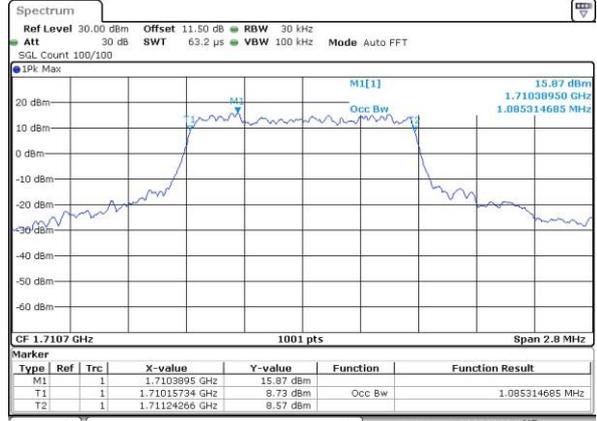
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



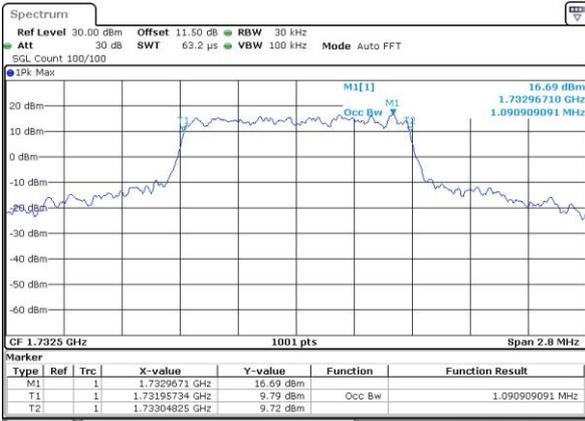
Date: 3,AUG,2016 13:53:36

Lowest Channel / 1.4MHz / 16QAM



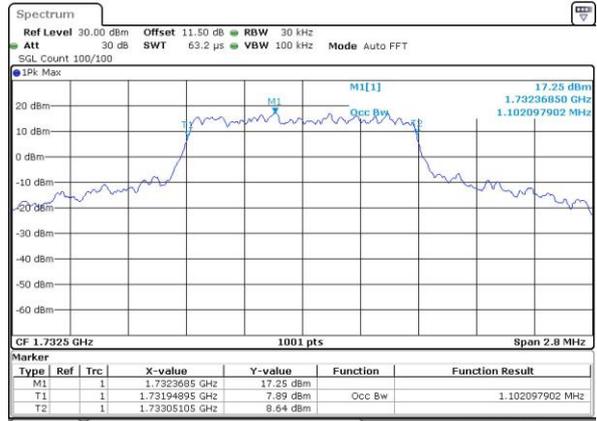
Date: 3,AUG,2016 13:53:48

Middle Channel / 1.4MHz / QPSK



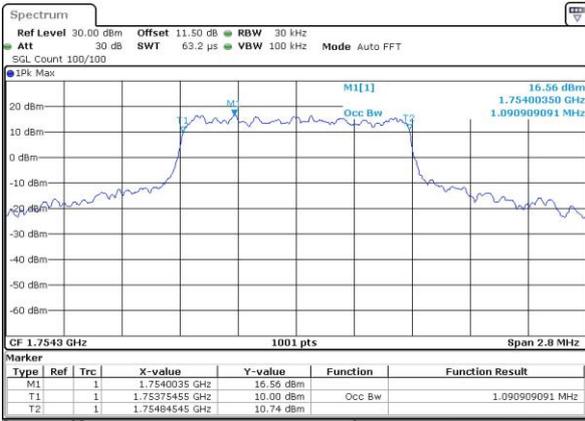
Date: 3,AUG,2016 14:00:58

Middle Channel / 1.4MHz / 16QAM



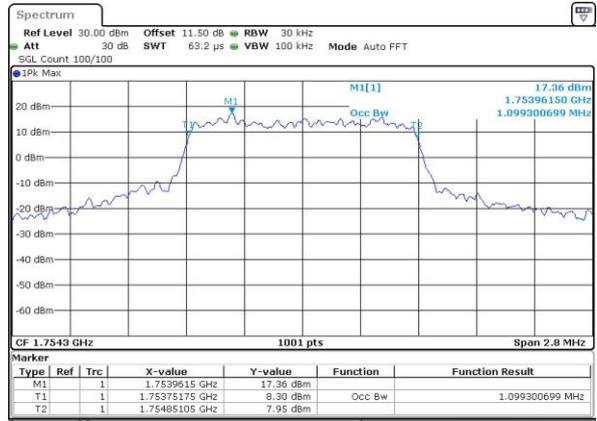
Date: 3,AUG,2016 14:01:10

Highest Channel / 1.4MHz / QPSK



Date: 3,AUG,2016 14:03:41

Highest Channel / 1.4MHz / 16QAM

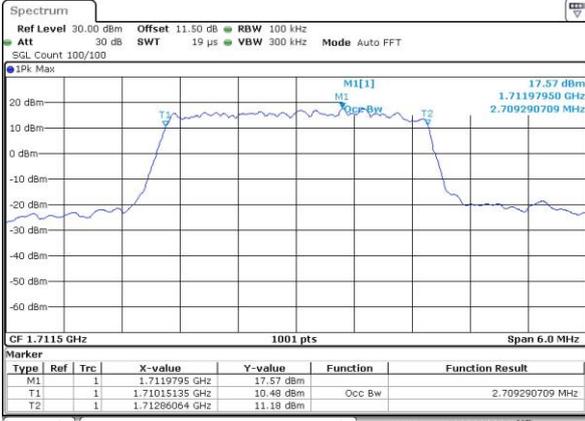


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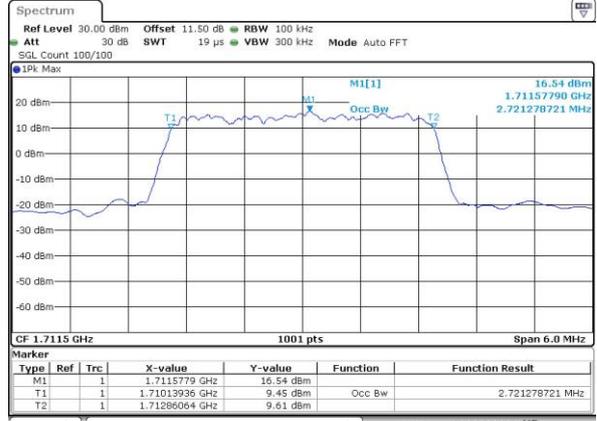
LTE Band 4

Lowest Channel / 3MHz / QPSK



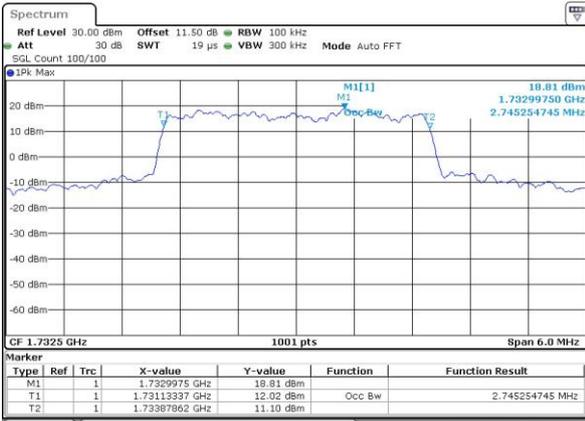
Date: 3,AUG,2016 09:26:22

Lowest Channel / 3MHz / 16QAM



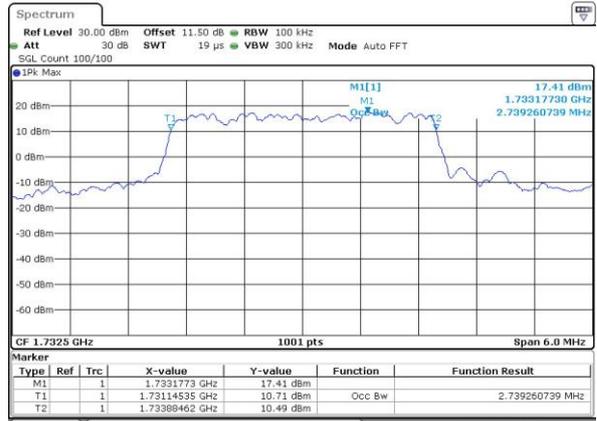
Date: 3,AUG,2016 09:26:34

Middle Channel / 3MHz / QPSK



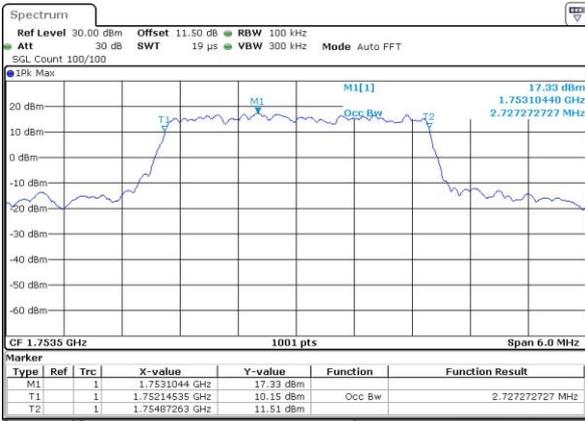
Date: 3,AUG,2016 09:33:44

Middle Channel / 3MHz / 16QAM



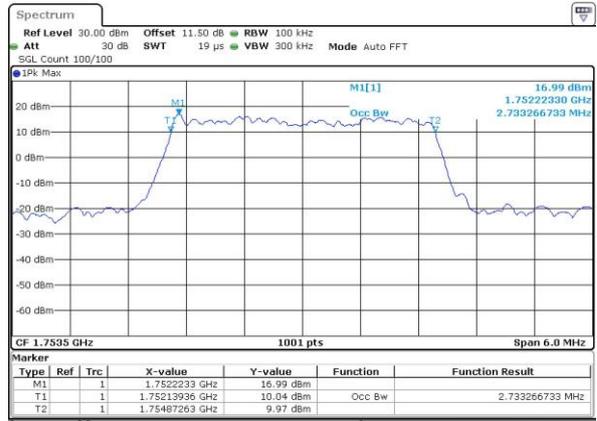
Date: 3,AUG,2016 09:33:56

Highest Channel / 3MHz / QPSK



Date: 3,AUG,2016 09:36:27

Highest Channel / 3MHz / 16QAM

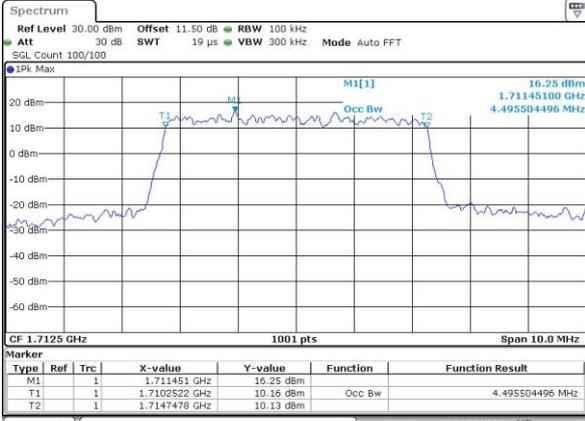


Date: 3,AUG,2016 09:36:38



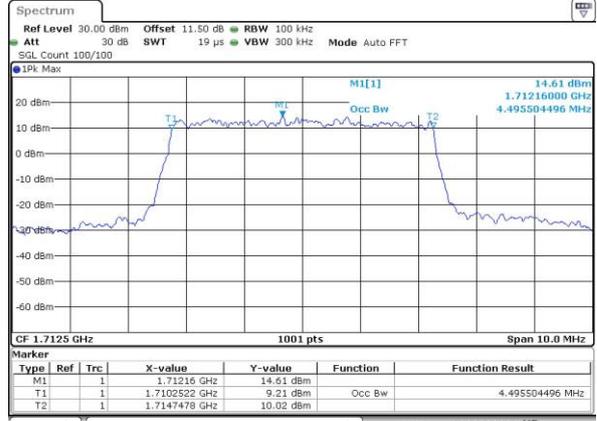
LTE Band 4

Lowest Channel / 5MHz / QPSK



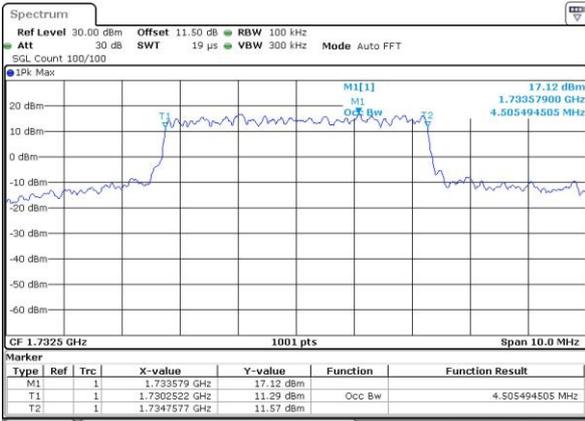
Date: 3.AUG.2016 09:43:47

Lowest Channel / 5MHz / 16QAM



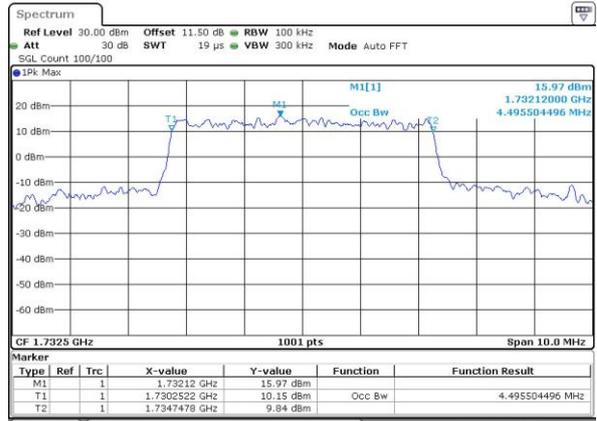
Date: 3.AUG.2016 09:43:59

Middle Channel / 5MHz / QPSK



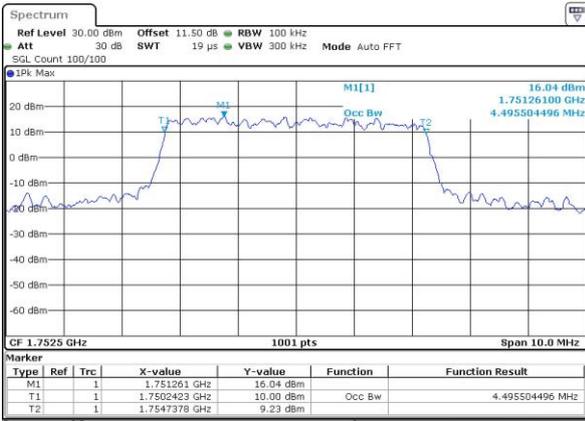
Date: 3.AUG.2016 09:51:09

Middle Channel / 5MHz / 16QAM



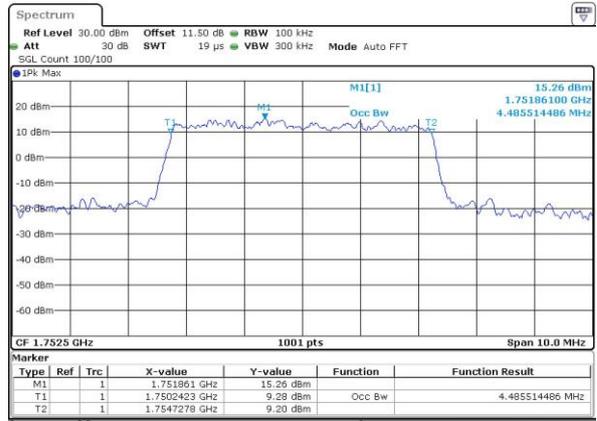
Date: 3.AUG.2016 09:51:20

Highest Channel / 5MHz / QPSK



Date: 3.AUG.2016 09:53:51

Highest Channel / 5MHz / 16QAM

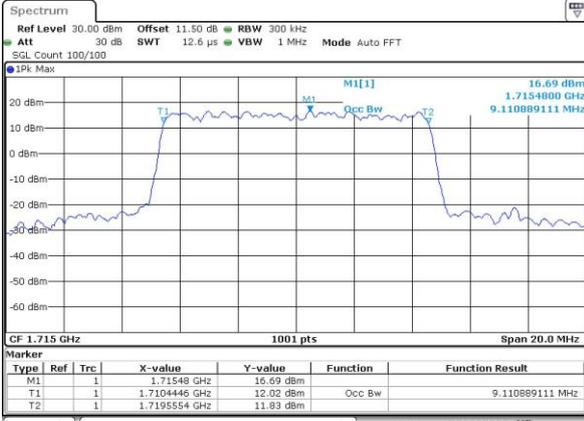


Date: 3.AUG.2016 09:54:03



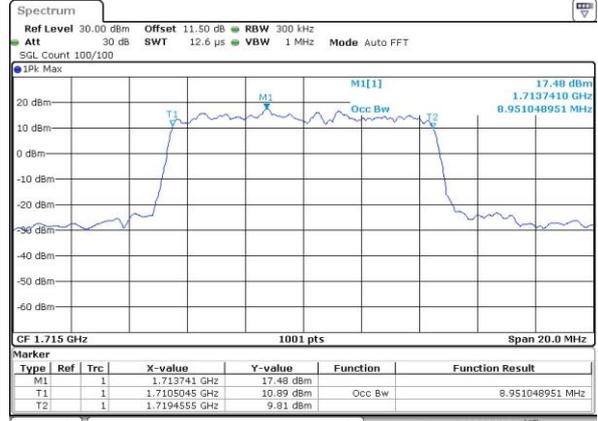
LTE Band 4

Lowest Channel / 10MHz / QPSK



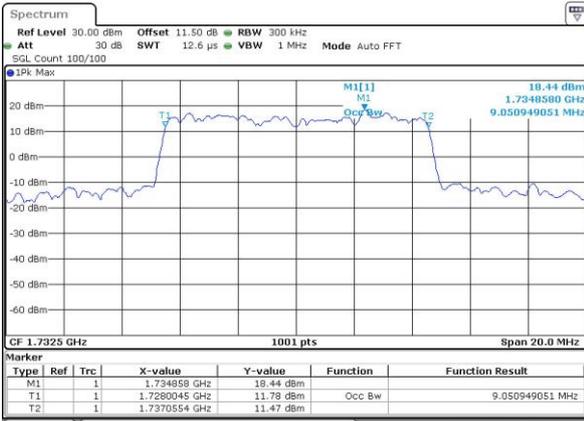
Date: 3.AUG.2016 10:30:35

Lowest Channel / 10MHz / 16QAM



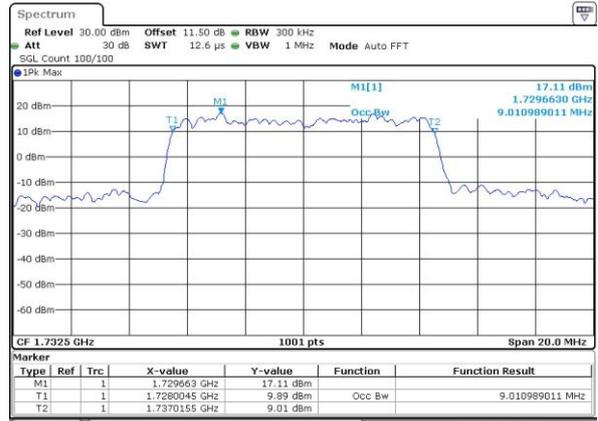
Date: 3.AUG.2016 10:30:48

Middle Channel / 10MHz / QPSK



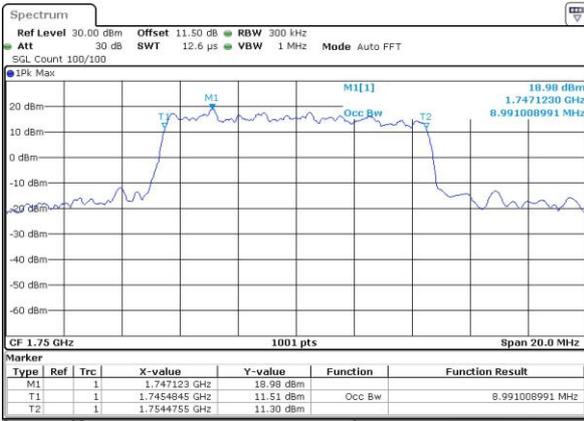
Date: 3.AUG.2016 10:37:58

Middle Channel / 10MHz / 16QAM



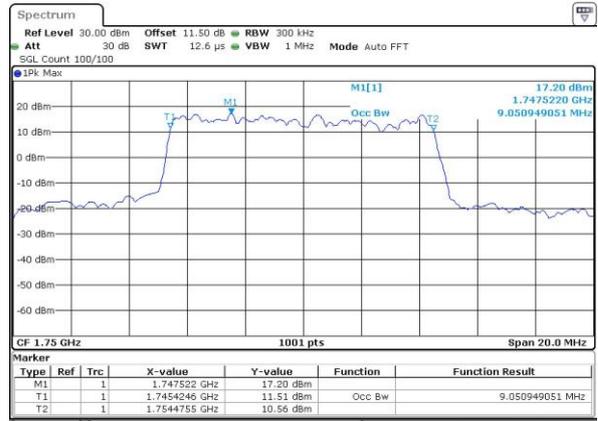
Date: 3.AUG.2016 10:38:09

Highest Channel / 10MHz / QPSK



Date: 3.AUG.2016 10:40:41

Highest Channel / 10MHz / 16QAM

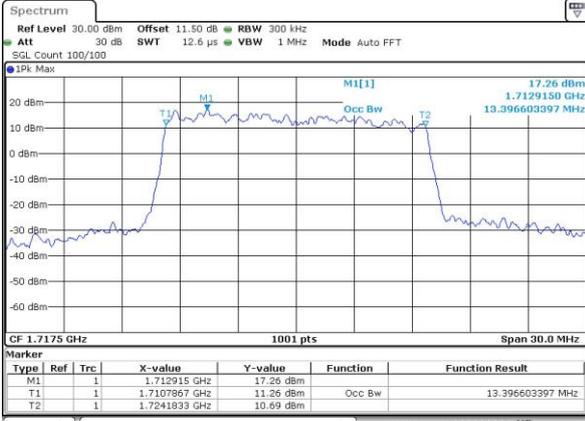


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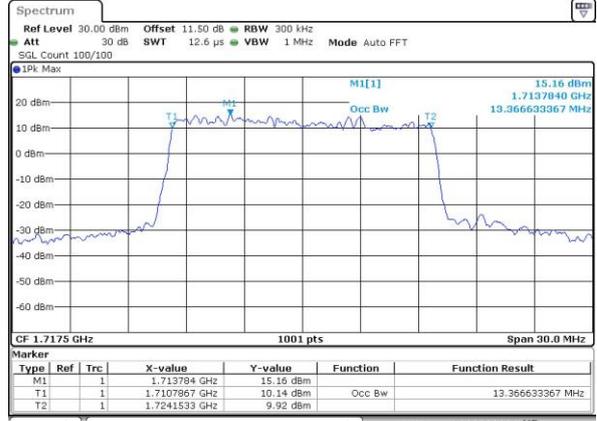
LTE Band 4

Lowest Channel / 15MHz / QPSK



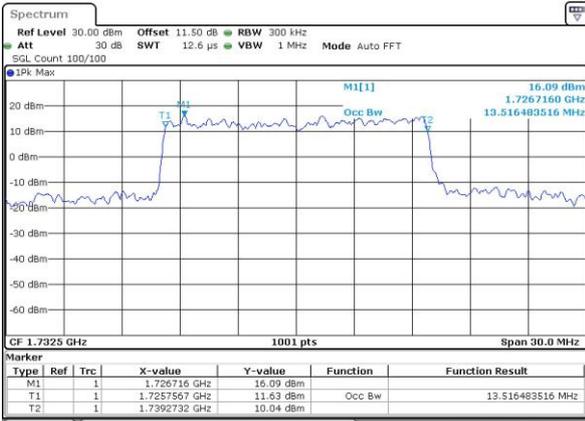
Date: 3.AUG.2016 11:49:07

Lowest Channel / 15MHz / 16QAM



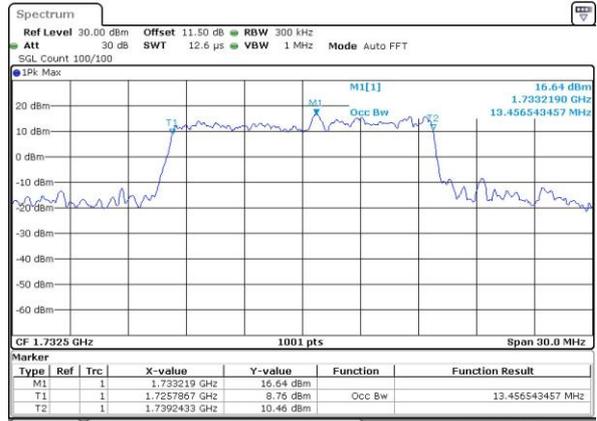
Date: 3.AUG.2016 11:49:19

Middle Channel / 15MHz / QPSK



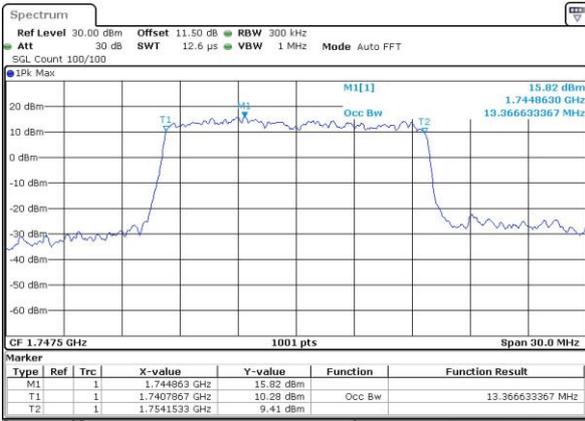
Date: 3.AUG.2016 11:56:28

Middle Channel / 15MHz / 16QAM



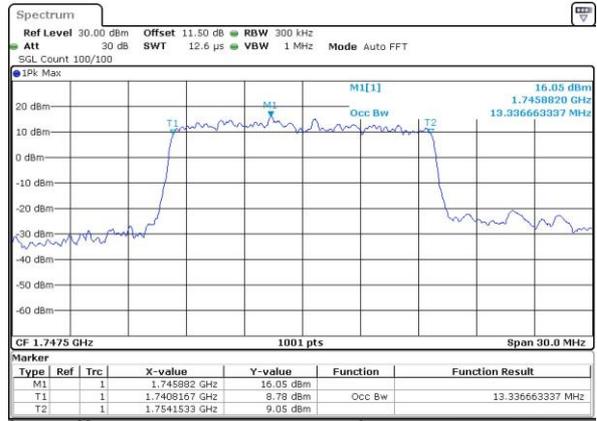
Date: 3.AUG.2016 11:56:40

Highest Channel / 15MHz / QPSK



Date: 3.AUG.2016 11:59:12

Highest Channel / 15MHz / 16QAM

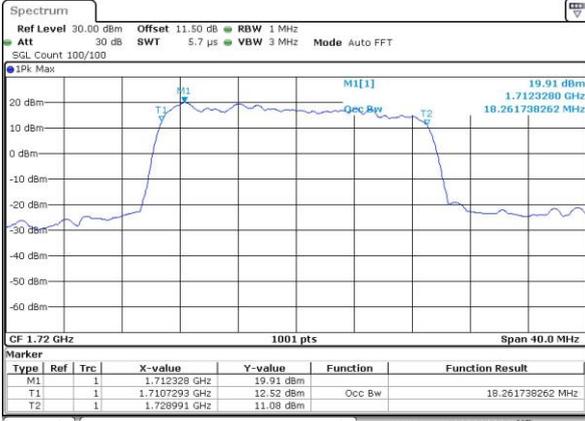


Date: 3.AUG.2016 11:59:24



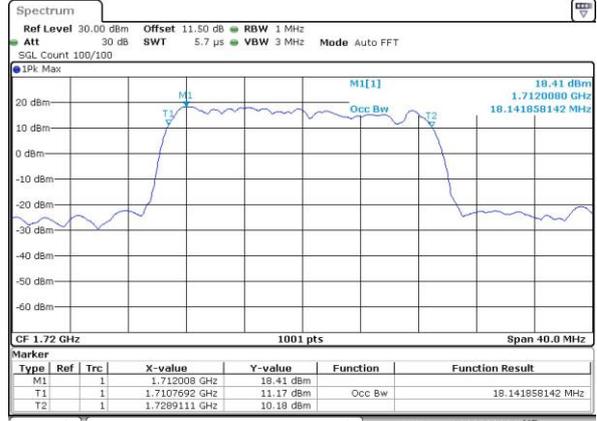
LTE Band 4

Lowest Channel / 20MHz / QPSK



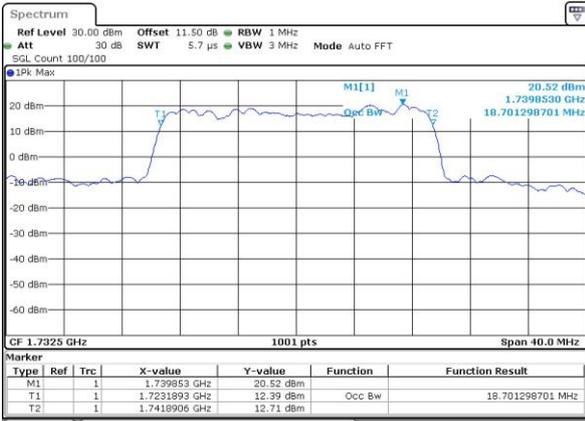
Date: 3,AUG,2016 13:35:32

Lowest Channel / 20MHz / 16QAM



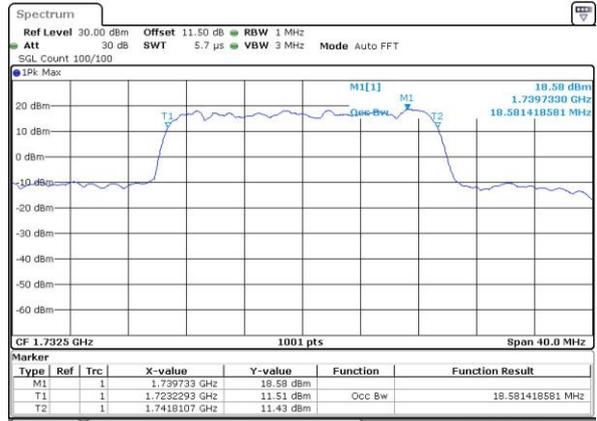
Date: 3,AUG,2016 13:35:44

Middle Channel / 20MHz / QPSK



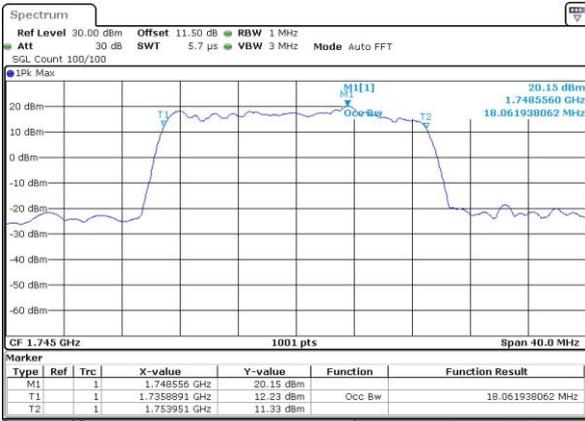
Date: 3,AUG,2016 13:42:55

Middle Channel / 20MHz / 16QAM



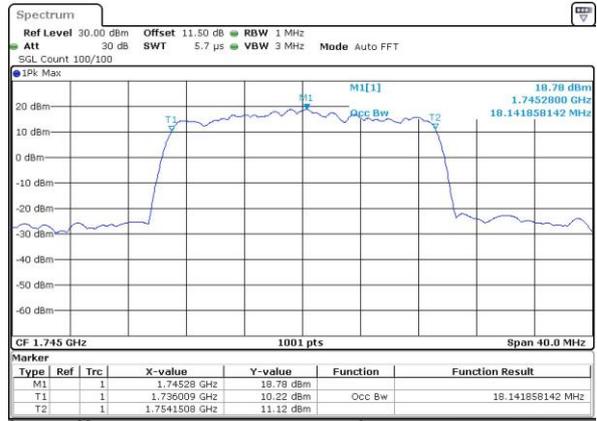
Date: 3,AUG,2016 13:43:07

Highest Channel / 20MHz / QPSK



Date: 3,AUG,2016 13:45:39

Highest Channel / 20MHz / 16QAM



Date: 3,AUG,2016 13:45:51



**Conducted Band Edge**