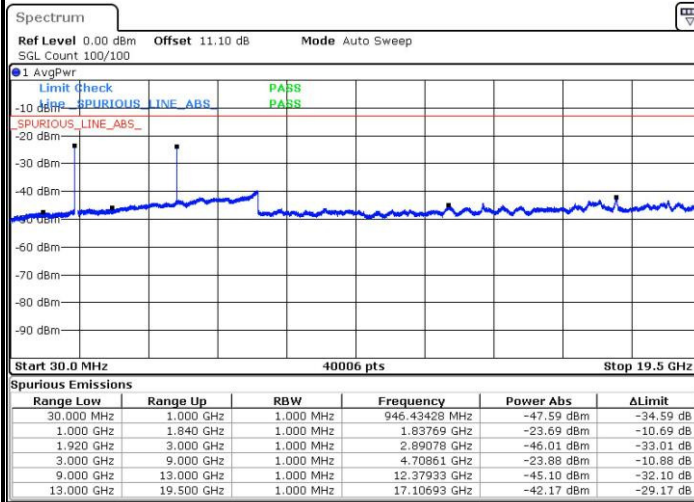




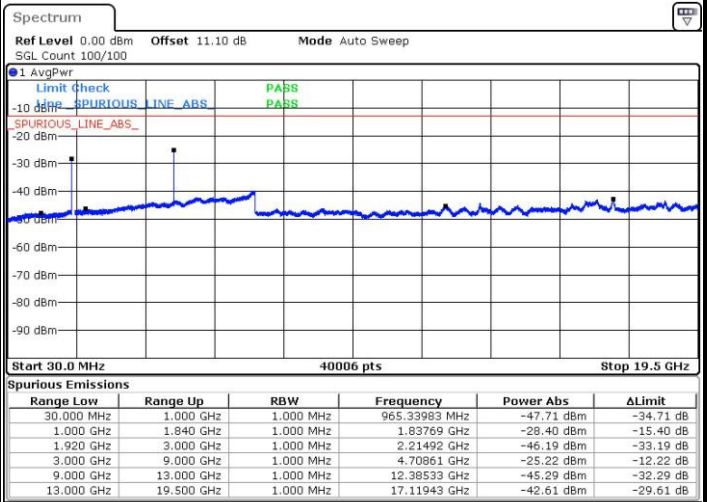
LTE Band 2 / 15MHz

Lowest Channel / QPSK



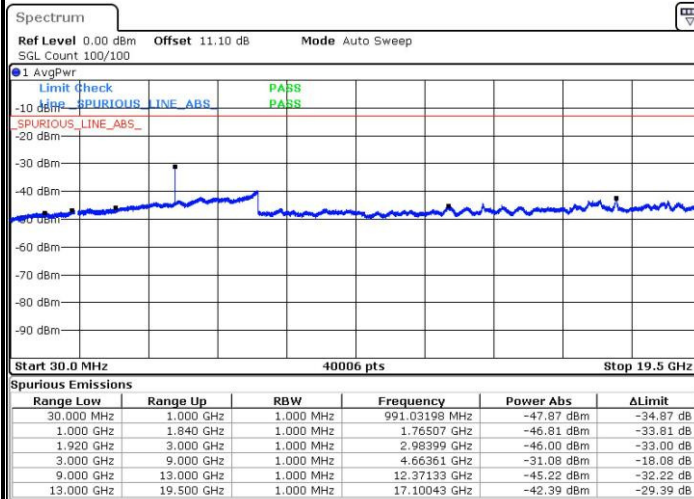
Date: 31.AUG.2016 21:27:12

Lowest Channel / 16QAM



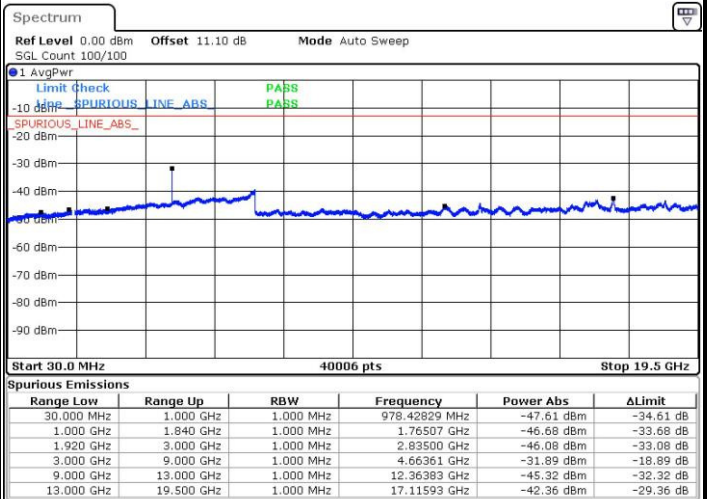
Date: 31.AUG.2016 21:28:10

Middle Channel / QPSK



Date: 31.AUG.2016 21:29:56

Middle Channel / 16QAM

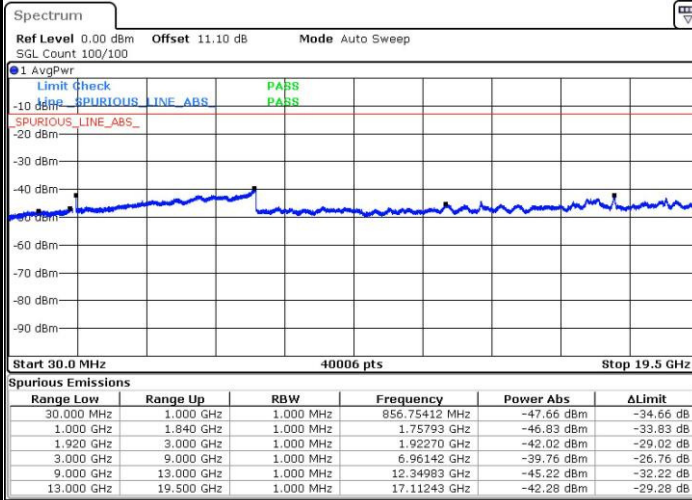


Date: 31.AUG.2016 21:30:54



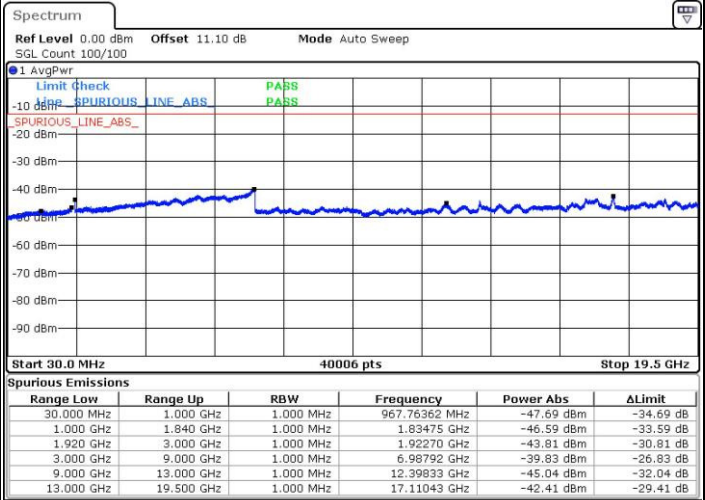
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 31.AUG.2016 21:37:18

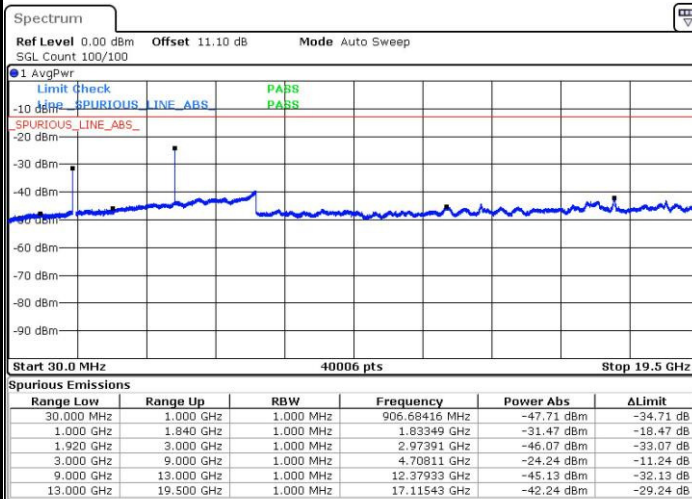
Highest Channel / 16QAM



Date: 31.AUG.2016 21:38:16

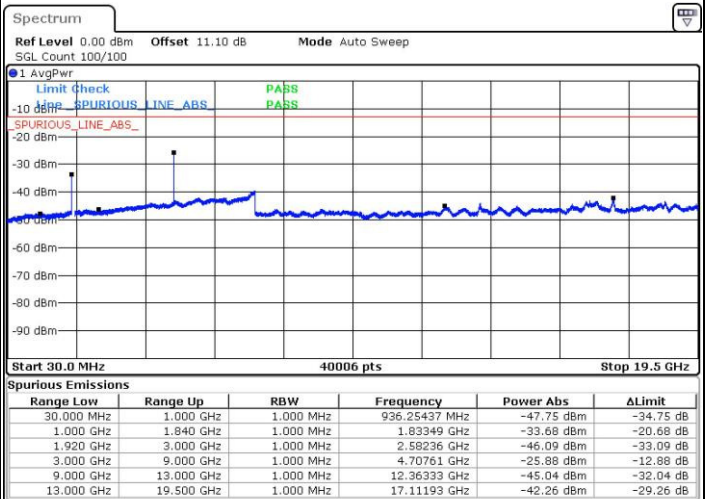
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 31.AUG.2016 21:44:40

Lowest Channel / 16QAM

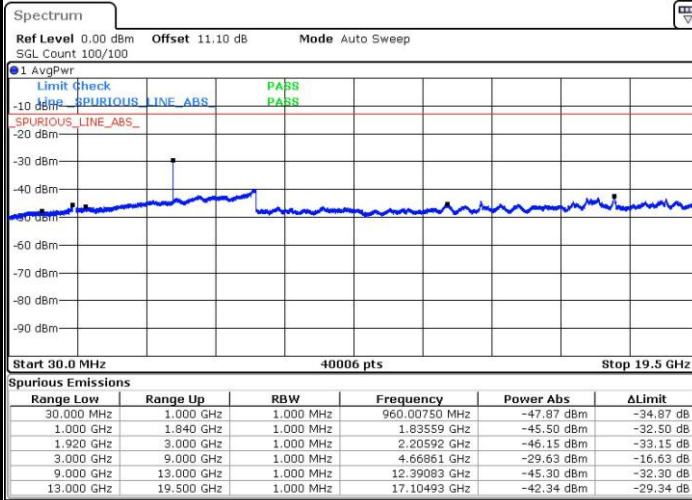


Date: 31.AUG.2016 21:45:38



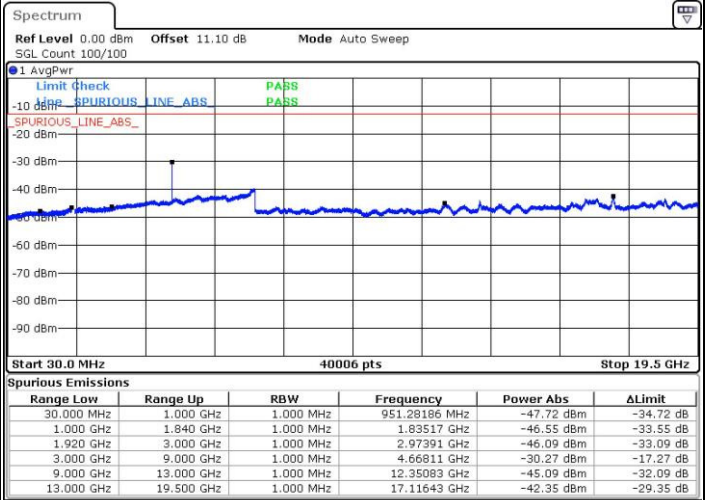
LTE Band 2 / 20MHz

Middle Channel / QPSK



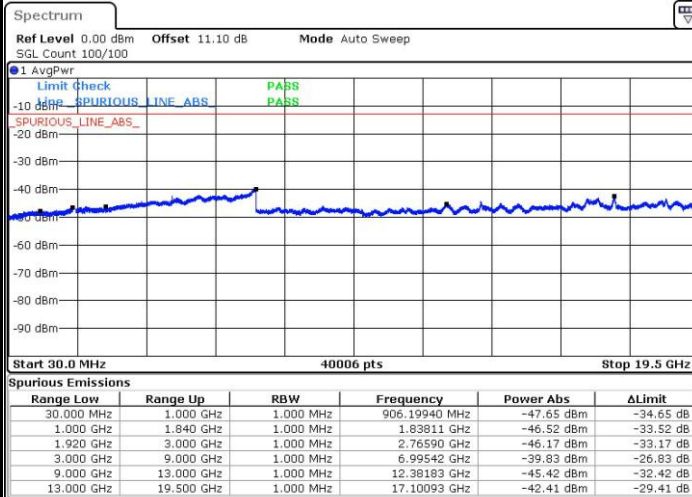
Date: 31.AUG.2016 21:47:24

Middle Channel / 16QAM



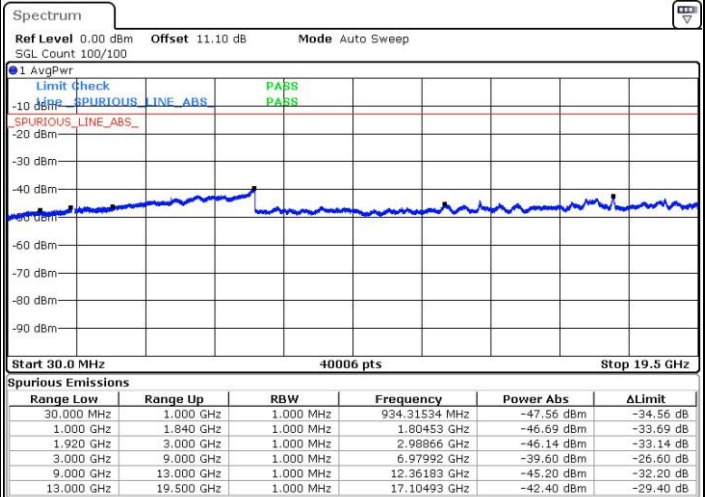
Date: 31.AUG.2016 21:48:22

Highest Channel / QPSK



Date: 31.AUG.2016 21:54:46

Highest Channel / 16QAM



Date: 31.AUG.2016 21:55:44

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	0.0065	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0061	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0067	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0066	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

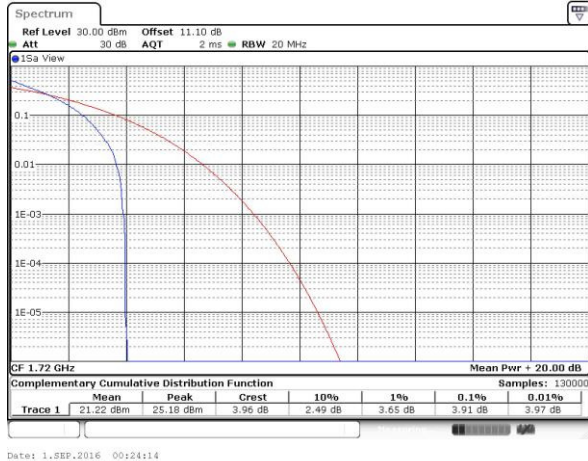
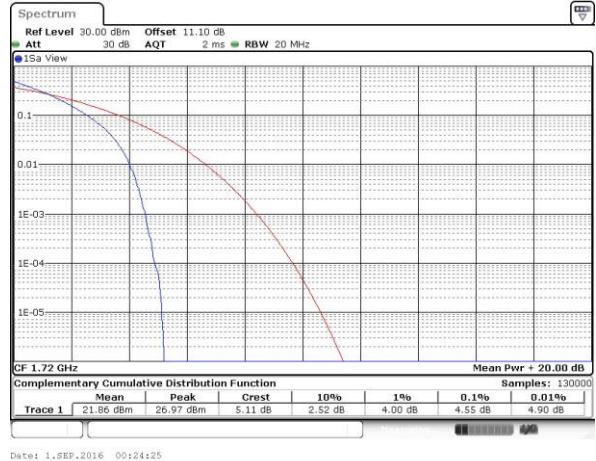
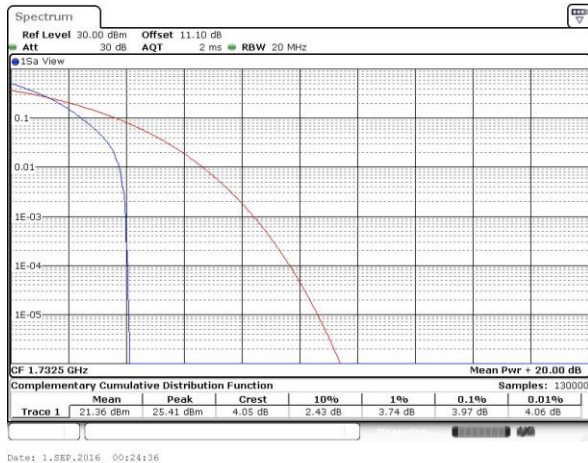
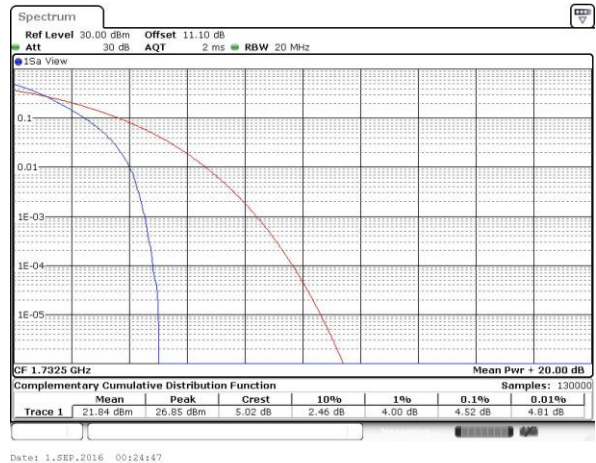
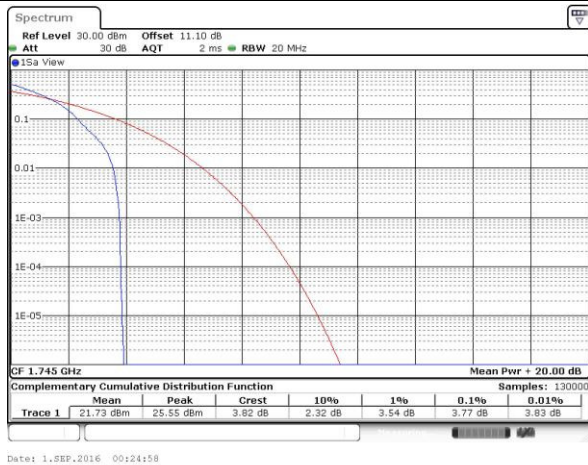
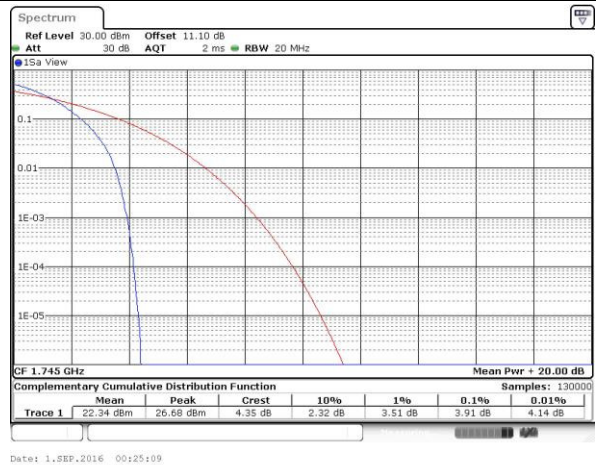
1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

Peak-to-Average Ratio

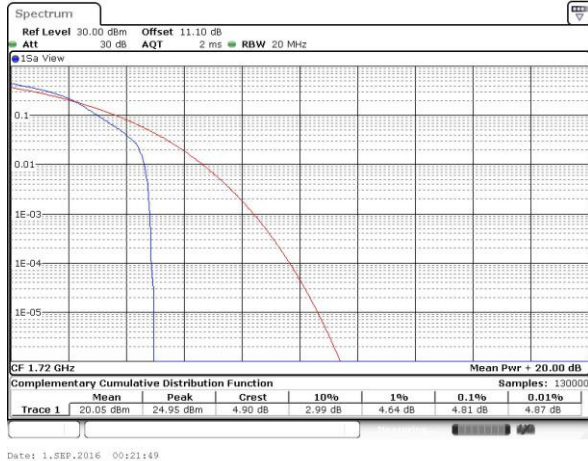
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.91	4.55	4.81	5.62	PASS
Middle CH	3.97	4.52	4.75	5.65	
Highest CH	3.77	3.91	4.9	4.93	

LTE Band 4 / 20MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


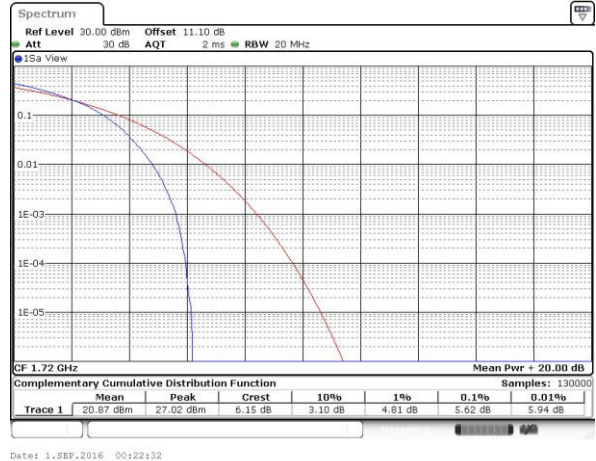


LTE Band 4 / 20MHz / 16QAM

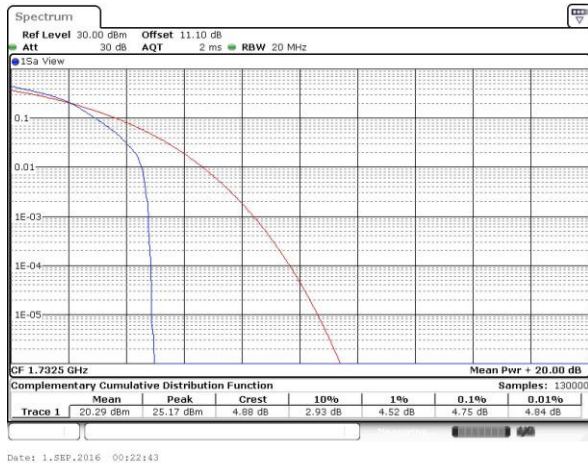
Lowest Channel / 1RB



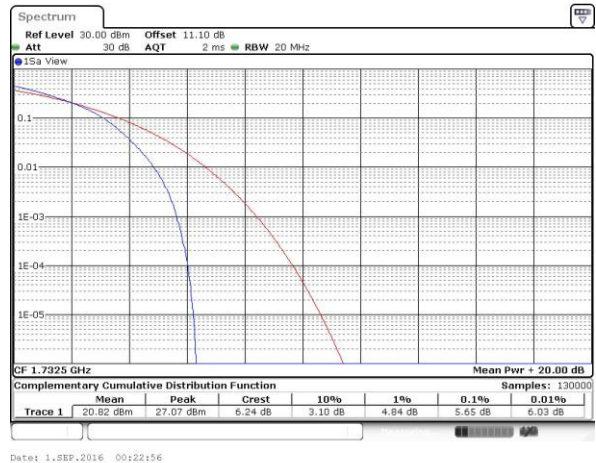
Lowest Channel / Full RB



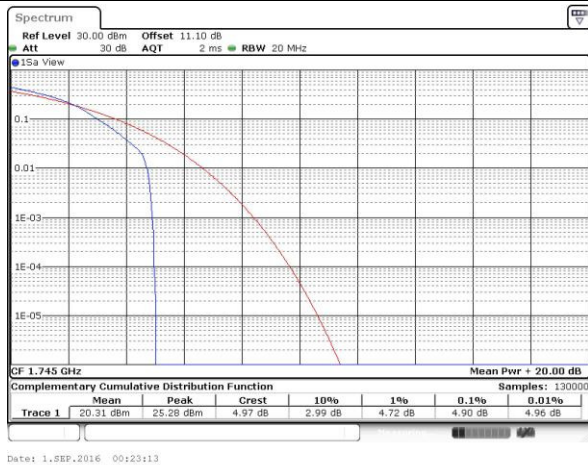
Middle Channel / 1RB



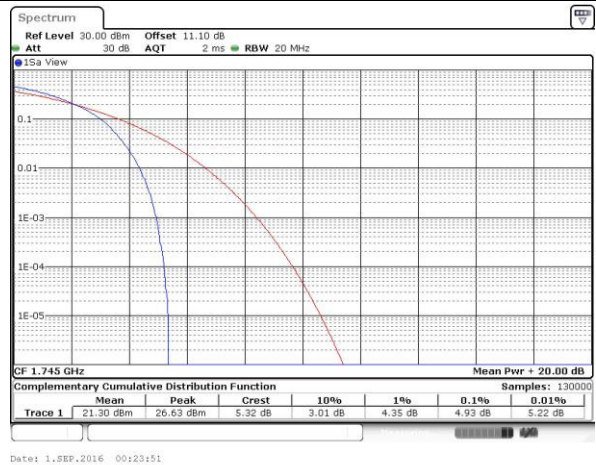
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



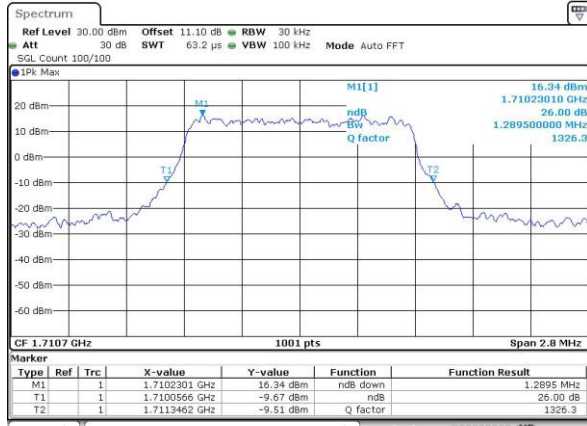
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.29	1.276	3.015	3.063	4.915	4.845	9.71	9.69	14.565	14.416	20.06	20.06
Middle CH	1.267	1.284	3.021	3.039	4.915	4.935	9.69	9.65	14.386	14.386	20.18	20.3
Highest CH	1.29	1.29	2.997	3.027	4.935	4.885	9.87	9.91	14.446	14.416	20.18	20.14



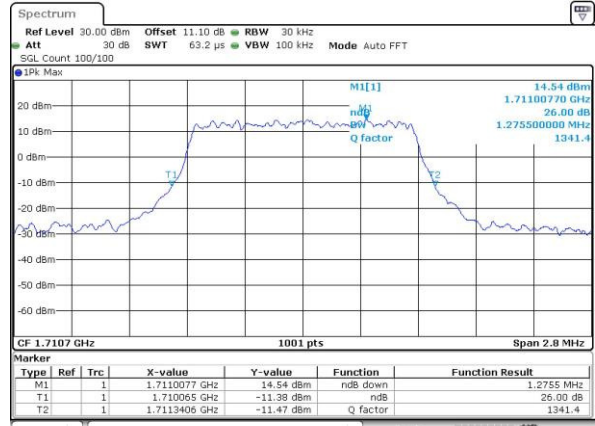
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



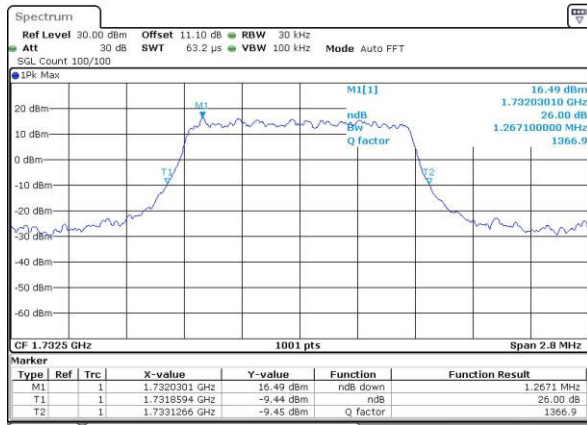
Date: 1.SEP.2016 00:04:47

Lowest Channel / 1.4MHz / 16QAM



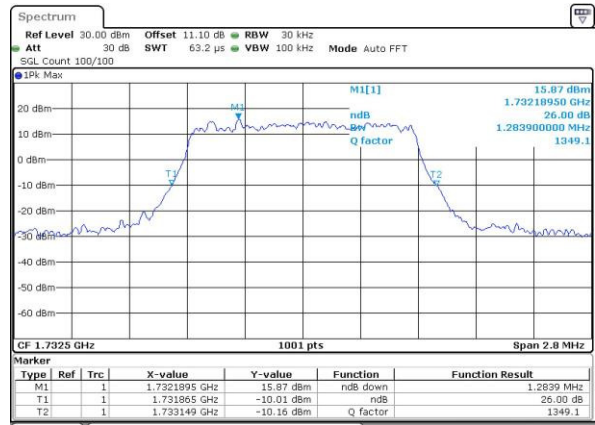
Date: 1.SEP.2016 00:04:58

Middle Channel / 1.4MHz / QPSK



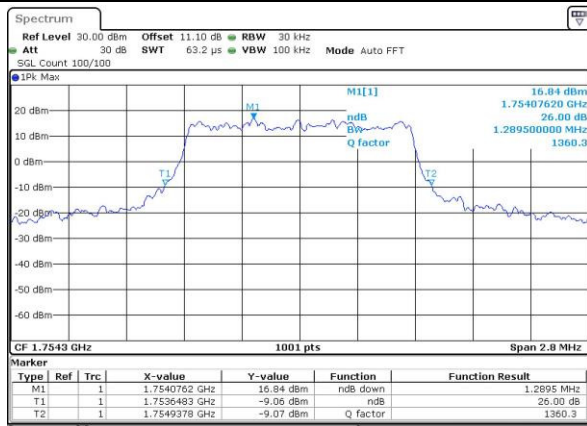
Date: 1.SEP.2016 00:12:08

Middle Channel / 1.4MHz / 16QAM



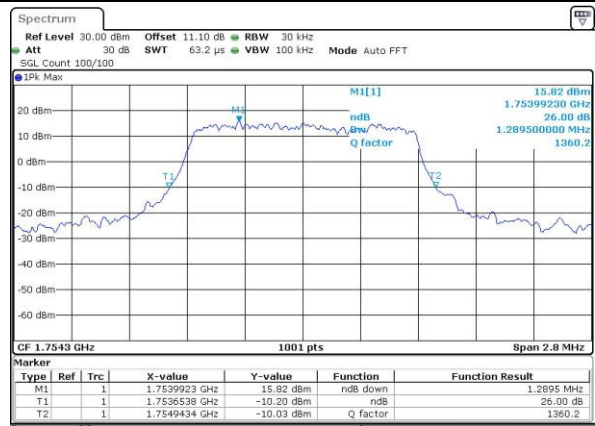
Date: 1.SEP.2016 00:12:19

Highest Channel / 1.4MHz / QPSK



Date: 1.SEP.2016 00:14:50

Highest Channel / 1.4MHz / 16QAM

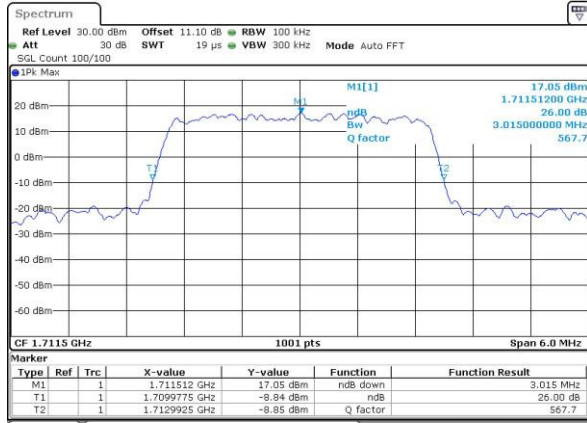


Date: 1.SEP.2016 00:15:02



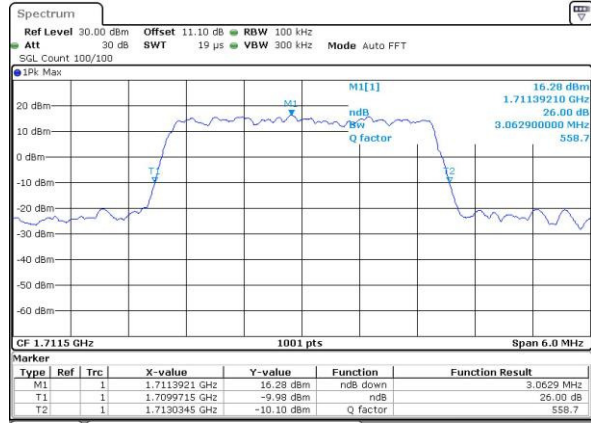
LTE Band 4

Lowest Channel / 3MHz / QPSK



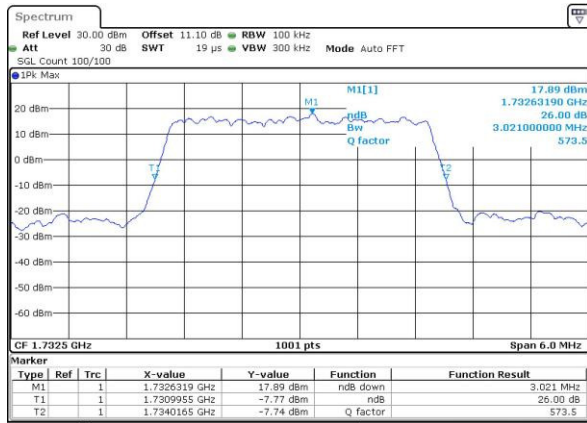
Date: 31.AUG.2016 22:31:28

Lowest Channel / 3MHz / 16QAM



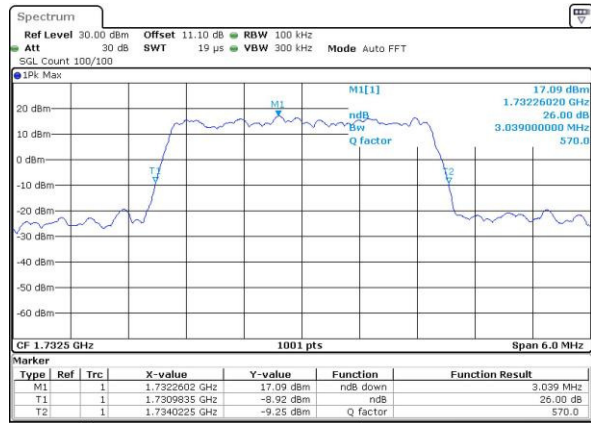
Date: 31.AUG.2016 22:31:40

Middle Channel / 3MHz / QPSK



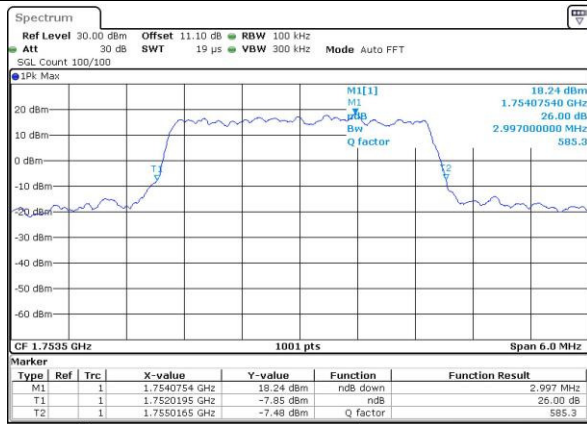
Date: 31.AUG.2016 22:38:50

Middle Channel / 3MHz / 16QAM



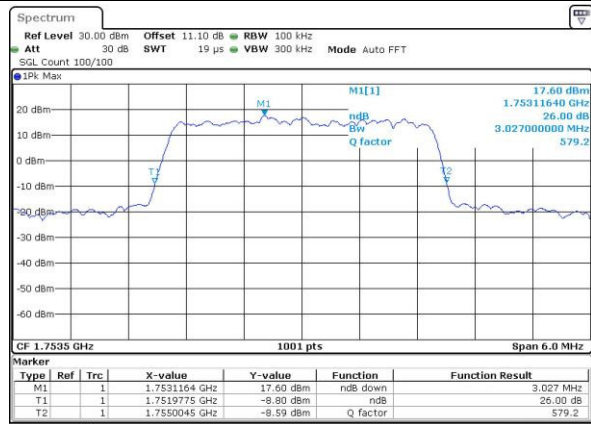
Date: 31.AUG.2016 22:39:01

Highest Channel / 3MHz / QPSK



Date: 31.AUG.2016 22:41:33

Highest Channel / 3MHz / 16QAM

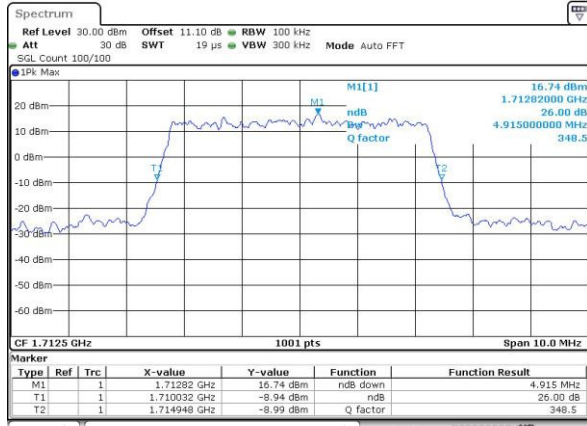


Date: 31.AUG.2016 22:41:45



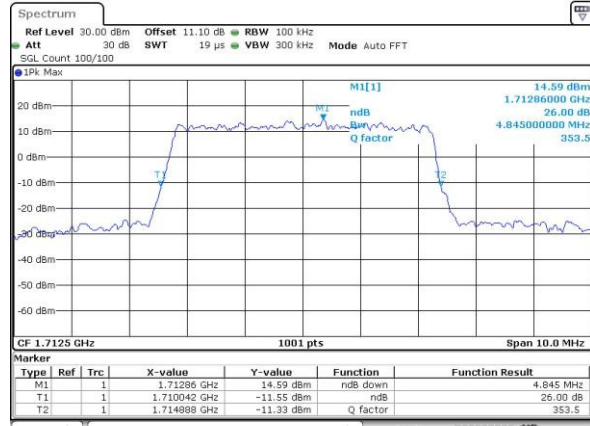
LTE Band 4

Lowest Channel / 5MHz / QPSK



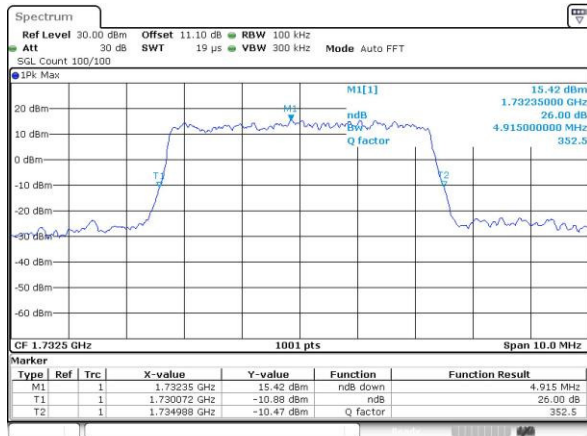
Date: 31.AUG.2016 22:48:54

Lowest Channel / 5MHz / 16QAM



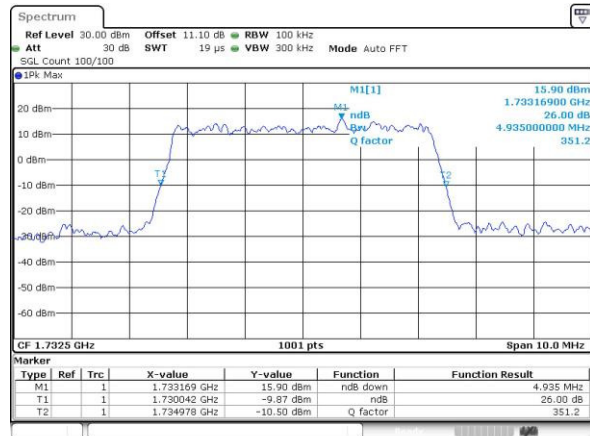
Date: 31.AUG.2016 22:49:06

Middle Channel / 5MHz / QPSK



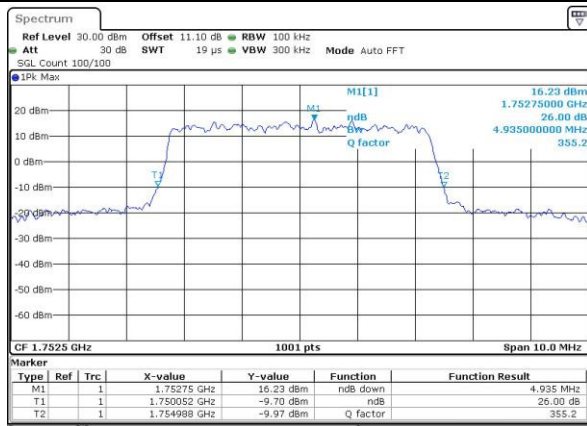
Date: 31.AUG.2016 22:56:15

Middle Channel / 5MHz / 16QAM



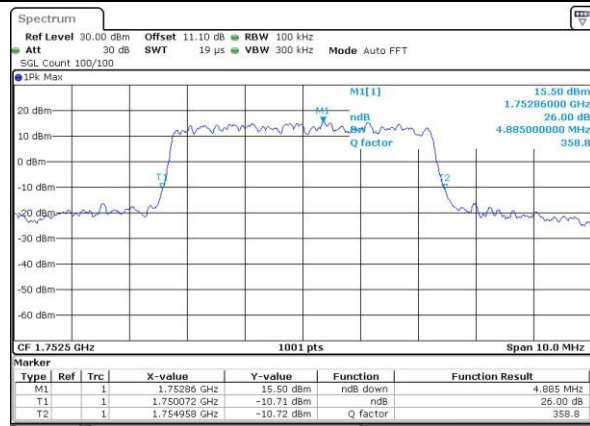
Date: 31.AUG.2016 22:56:27

Highest Channel / 5MHz / QPSK



Date: 31.AUG.2016 22:58:59

Highest Channel / 5MHz / 16QAM

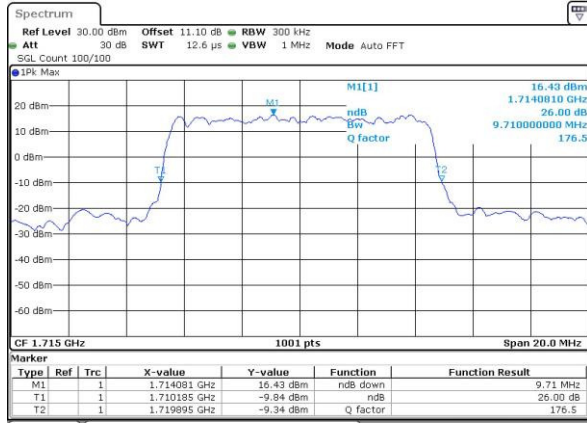


Date: 31.AUG.2016 22:59:10



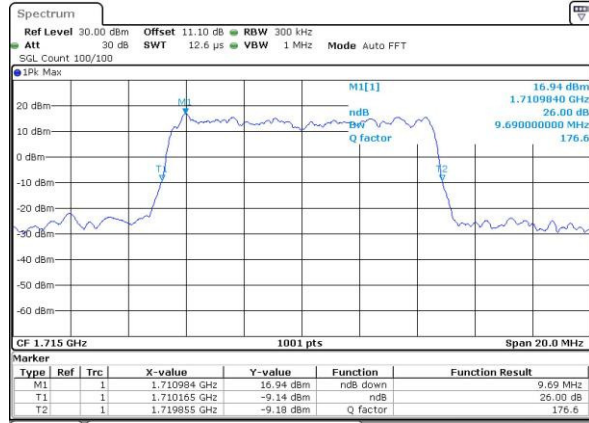
LTE Band 4

Lowest Channel / 10MHz / QPSK



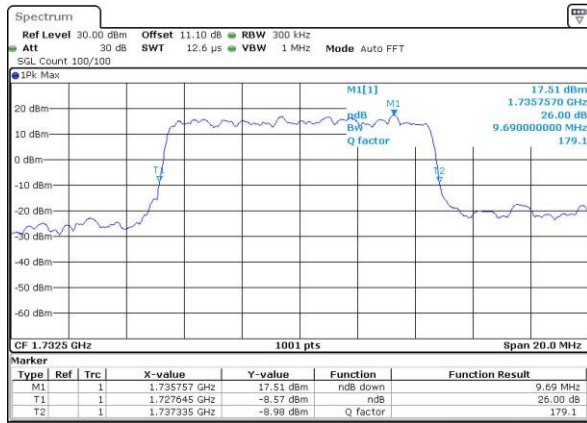
Date: 31.AUG.2016 23:06:20

Lowest Channel / 10MHz / 16QAM



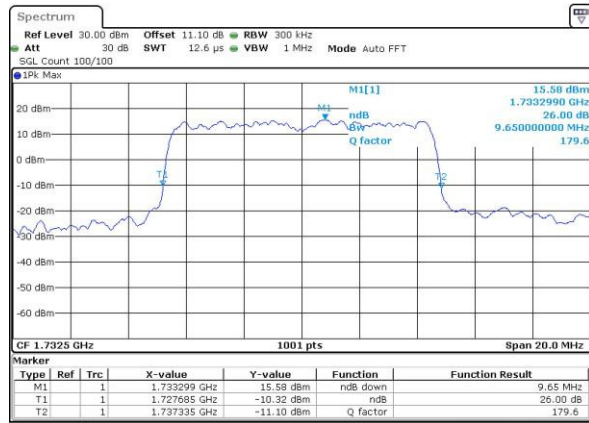
Date: 31.AUG.2016 23:06:32

Middle Channel / 10MHz / QPSK



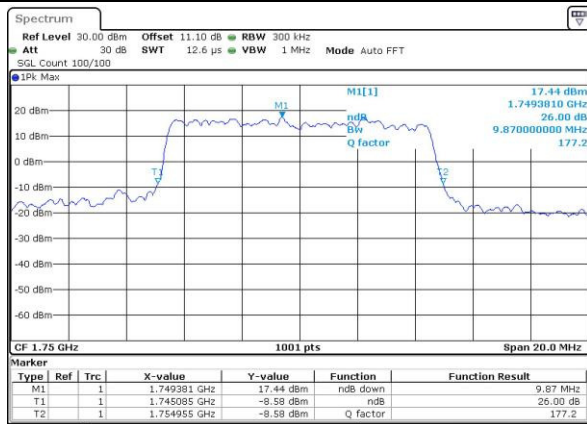
Date: 31.AUG.2016 23:13:41

Middle Channel / 10MHz / 16QAM



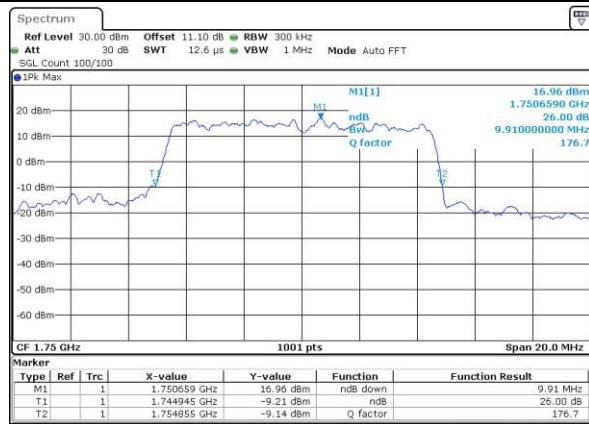
Date: 31.AUG.2016 23:13:53

Highest Channel / 10MHz / QPSK



Date: 31.AUG.2016 23:16:25

Highest Channel / 10MHz / 16QAM

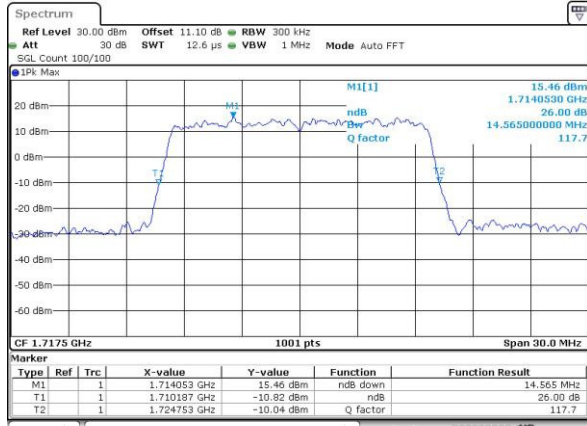


Date: 31.AUG.2016 23:16:37



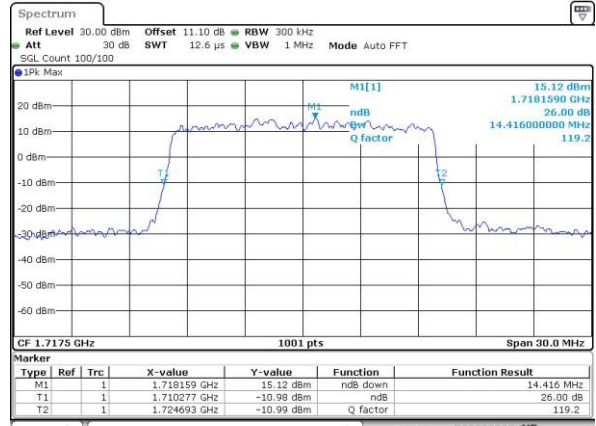
LTE Band 4

Lowest Channel / 15MHz / QPSK



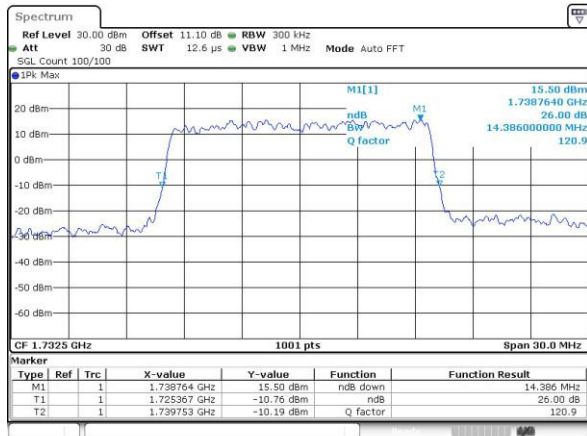
Date: 31.AUG.2016 23:29:56

Lowest Channel / 15MHz / 16QAM



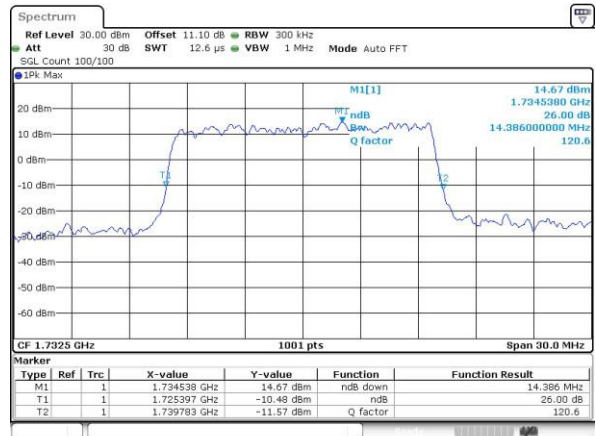
Date: 31.AUG.2016 23:30:08

Middle Channel / 15MHz / QPSK



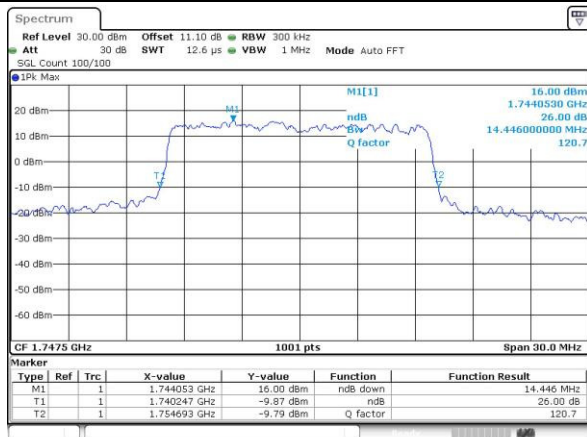
Date: 31.AUG.2016 23:37:17

Middle Channel / 15MHz / 16QAM



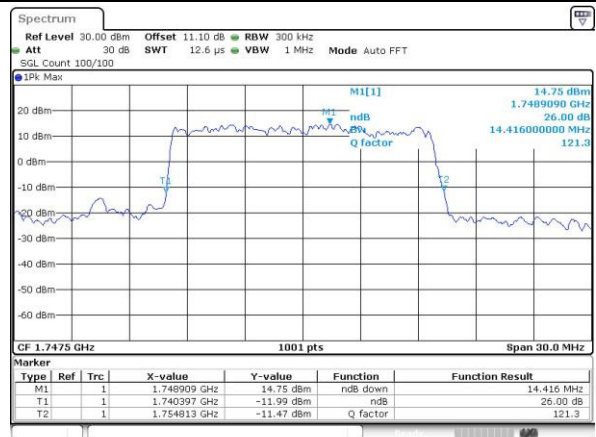
Date: 31.AUG.2016 23:37:29

Highest Channel / 15MHz / QPSK



Date: 31.AUG.2016 23:40:00

Highest Channel / 15MHz / 16QAM

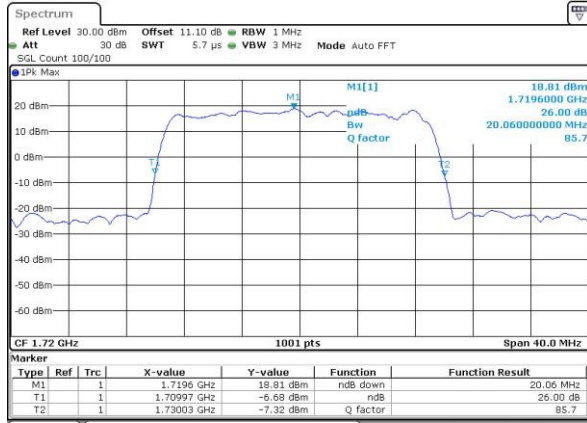


Date: 31.AUG.2016 23:40:12



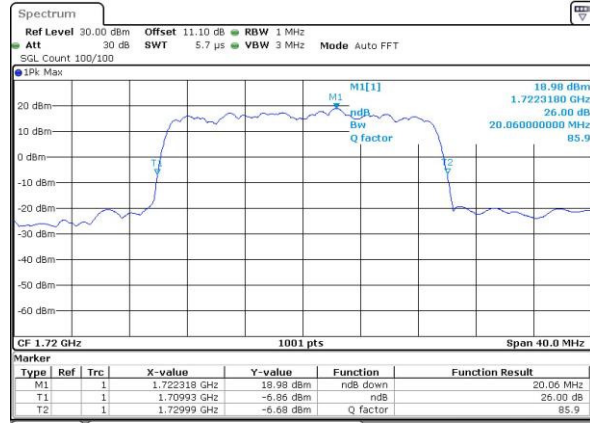
LTE Band 4

Lowest Channel / 20MHz / QPSK



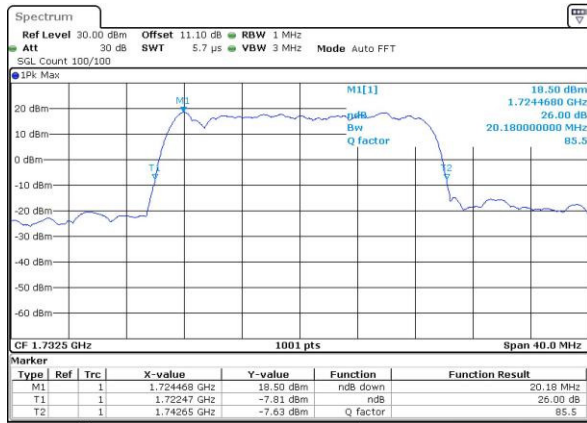
Date: 31.AUG.2016 23:47:12

Lowest Channel / 20MHz / 16QAM



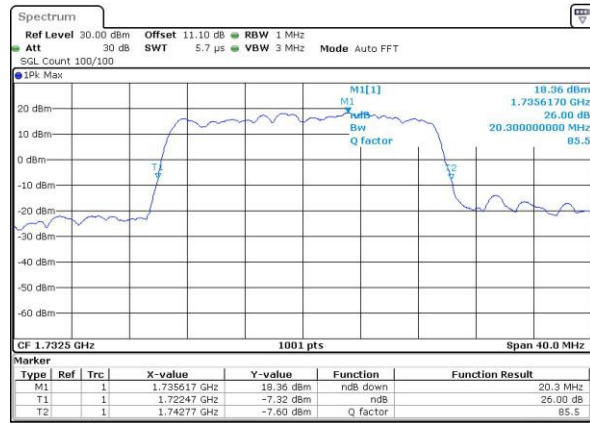
Date: 31.AUG.2016 23:47:13

Middle Channel / 20MHz / QPSK



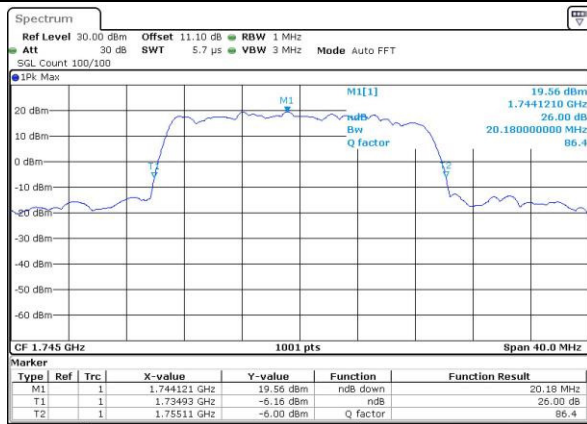
Date: 31.AUG.2016 23:54:42

Middle Channel / 20MHz / 16QAM



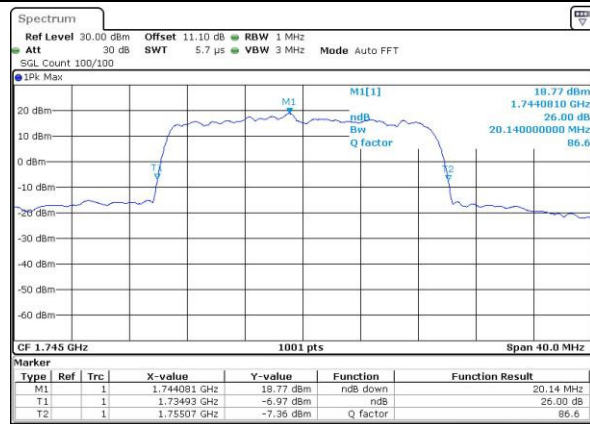
Date: 31.AUG.2016 23:54:54

Highest Channel / 20MHz / QPSK



Date: 31.AUG.2016 23:57:26

Highest Channel / 20MHz / 16QAM



Date: 31.AUG.2016 23:57:37

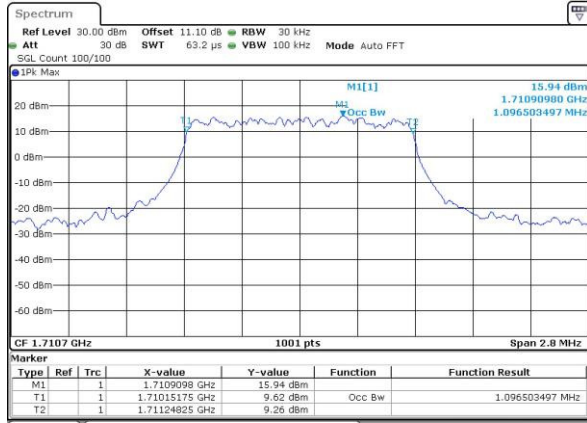
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.08	2.72	2.71	4.48	4.5	8.99	9.03	13.37	13.37	18.3	18.3
Middle CH	1.09	1.1	2.7	2.73	4.48	4.49	9.05	9.05	13.46	13.37	18.34	18.38
Highest CH	1.09	1.09	2.72	2.73	4.49	4.5	9.03	8.97	13.4	13.37	18.1	18.26

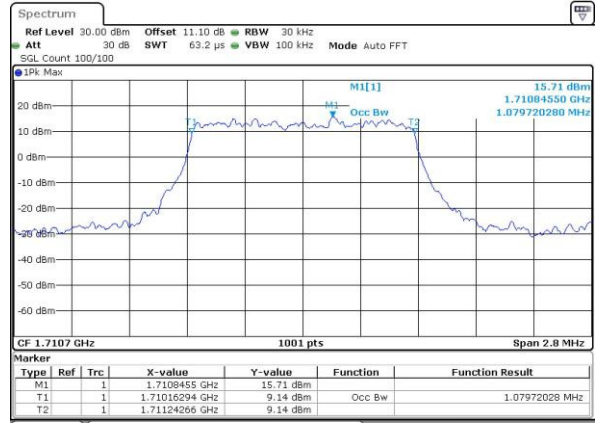


LTE Band 4

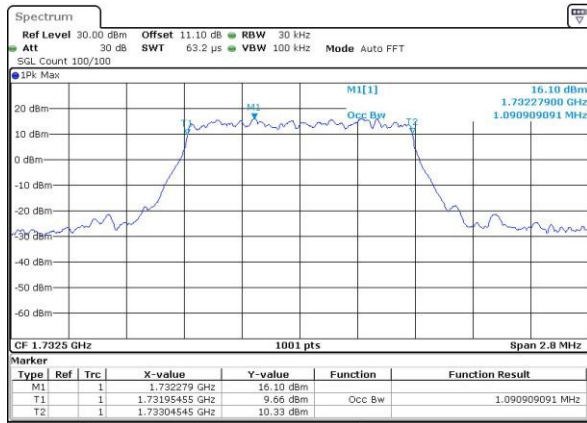
Lowest Channel / 1.4MHz / QPSK



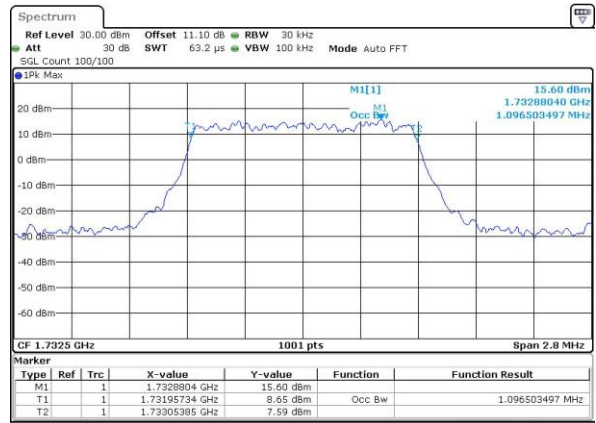
Lowest Channel / 1.4MHz / 16QAM



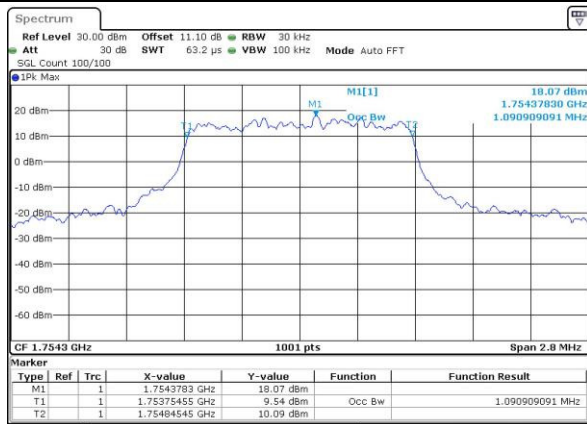
Middle Channel / 1.4MHz / QPSK



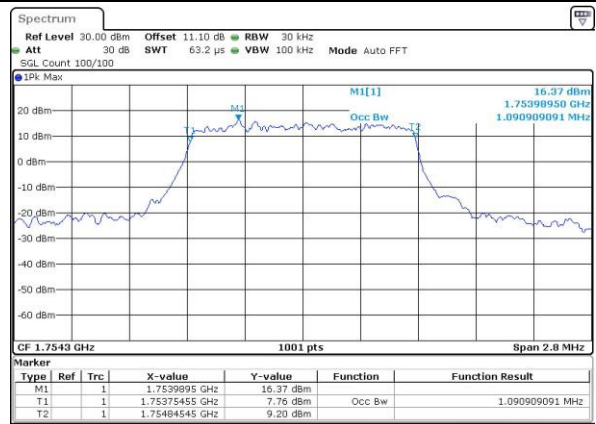
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



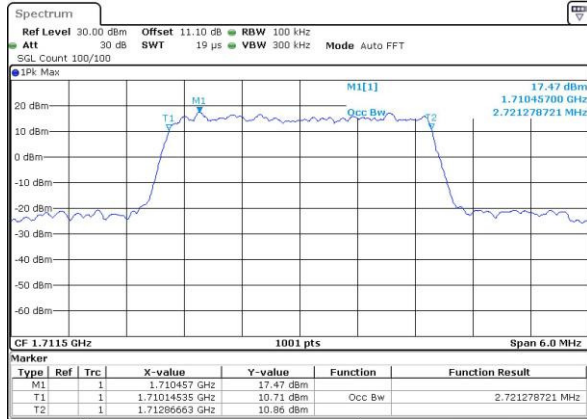
Highest Channel / 1.4MHz / 16QAM



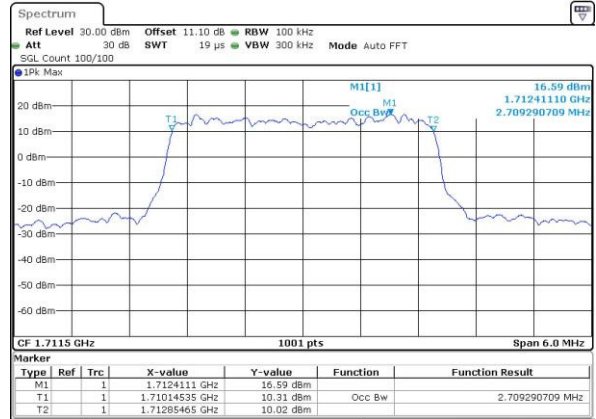


LTE Band 4

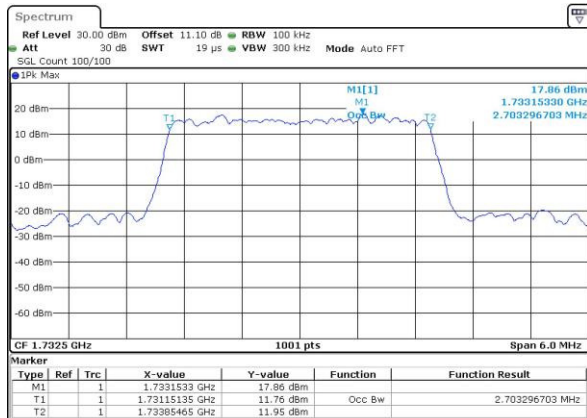
Lowest Channel / 3MHz / QPSK



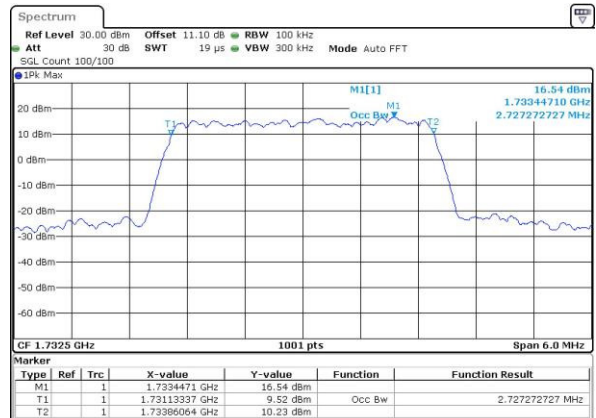
Lowest Channel / 3MHz / 16QAM



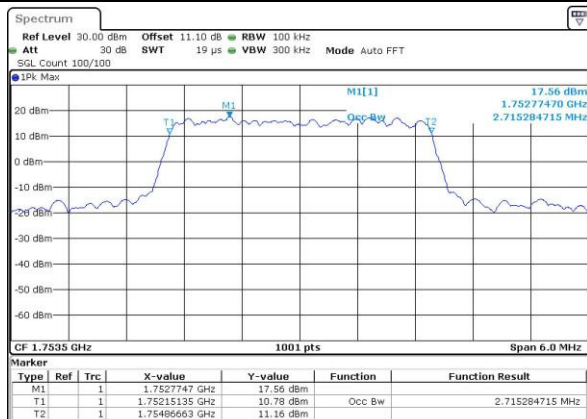
Middle Channel / 3MHz / QPSK



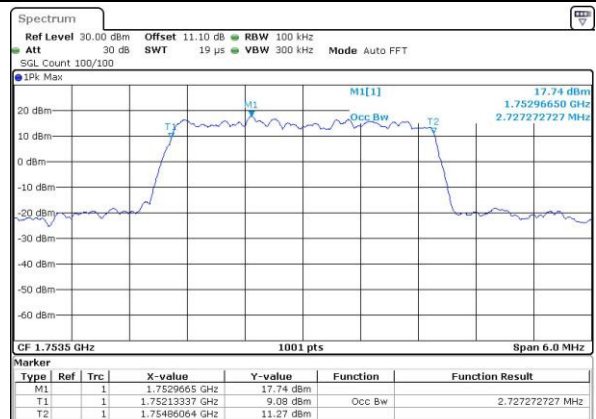
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



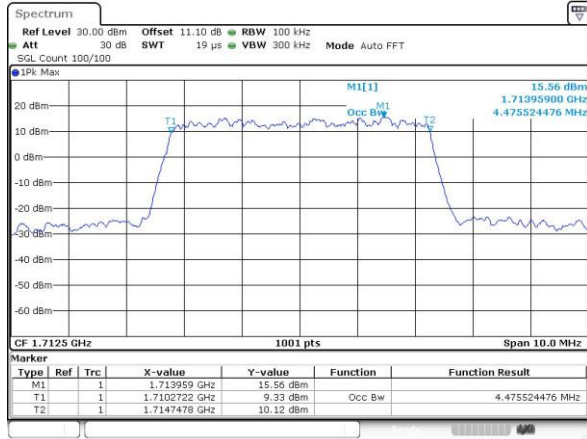
Highest Channel / 3MHz / 16QAM



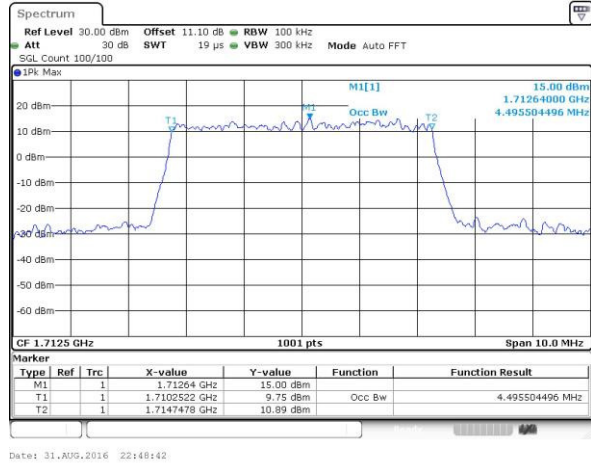


LTE Band 4

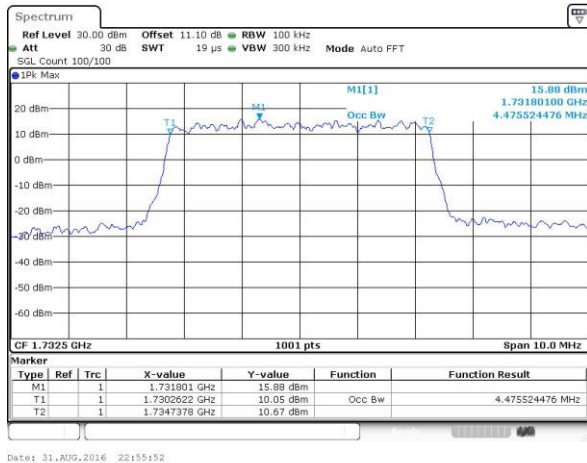
Lowest Channel / 5MHz / QPSK



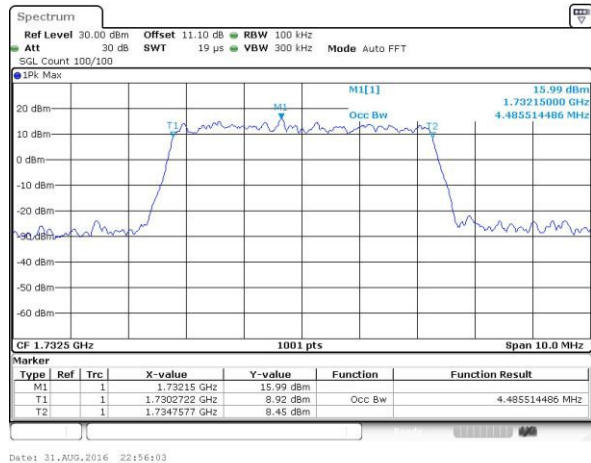
Lowest Channel / 5MHz / 16QAM



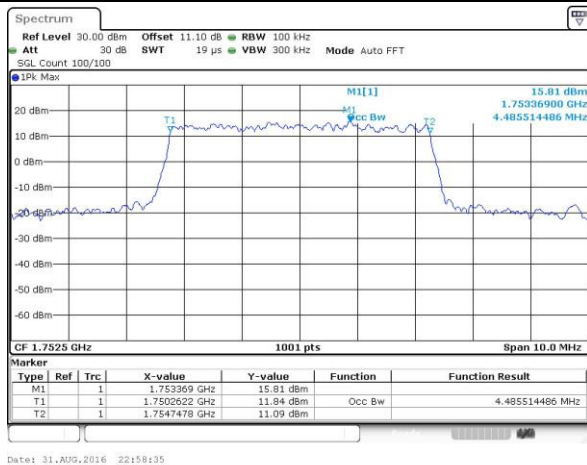
Middle Channel / 5MHz / QPSK



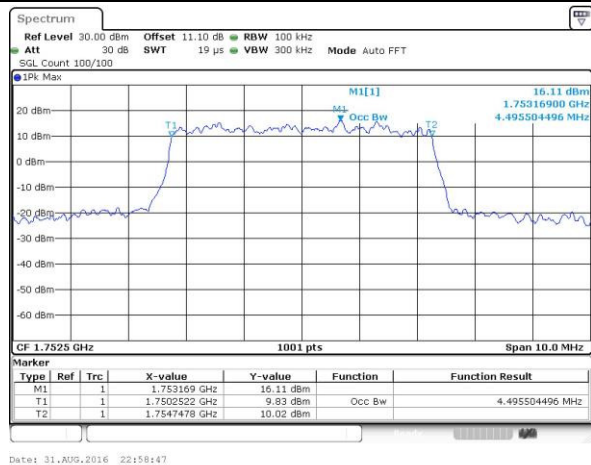
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



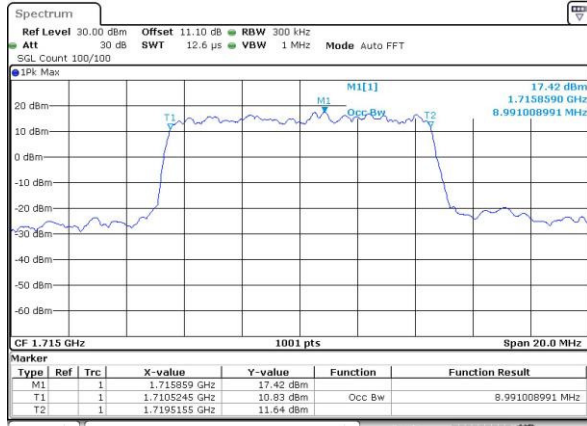
Highest Channel / 5MHz / 16QAM





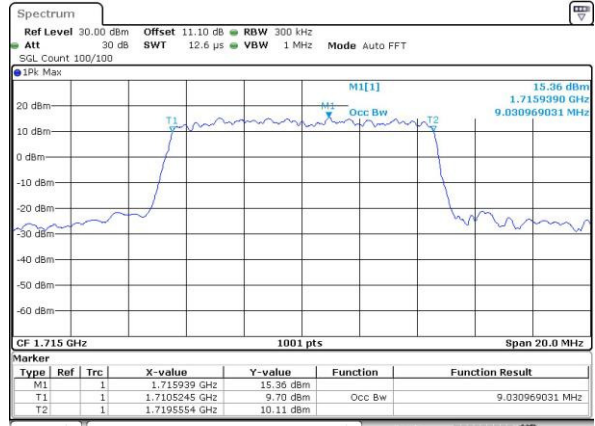
LTE Band 4

Lowest Channel / 10MHz / QPSK



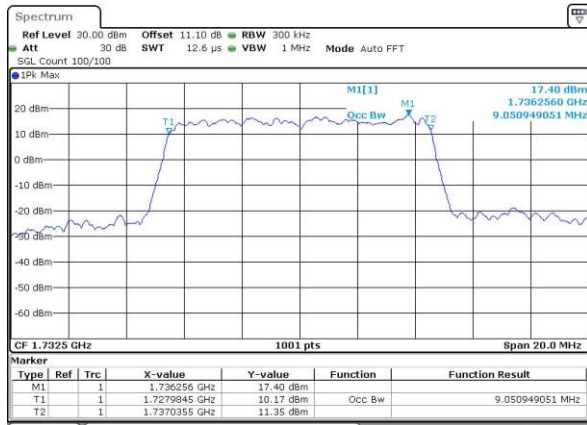
Date: 31.AUG.2016 23:05:57

Lowest Channel / 10MHz / 16QAM



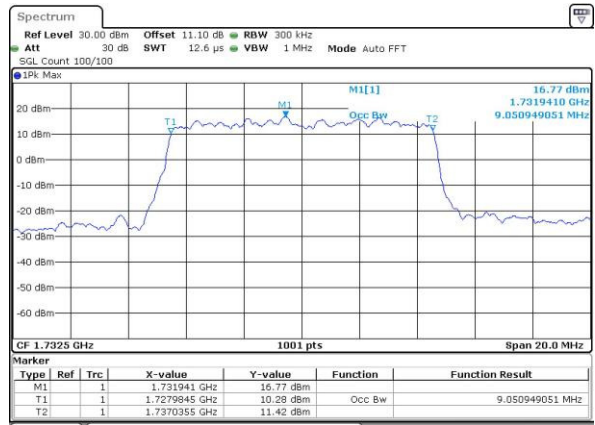
Date: 31.AUG.2016 23:06:08

Middle Channel / 10MHz / QPSK



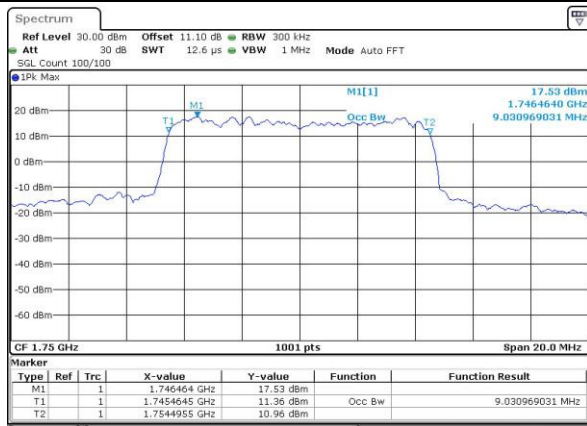
Date: 31.AUG.2016 23:13:18

Middle Channel / 10MHz / 16QAM



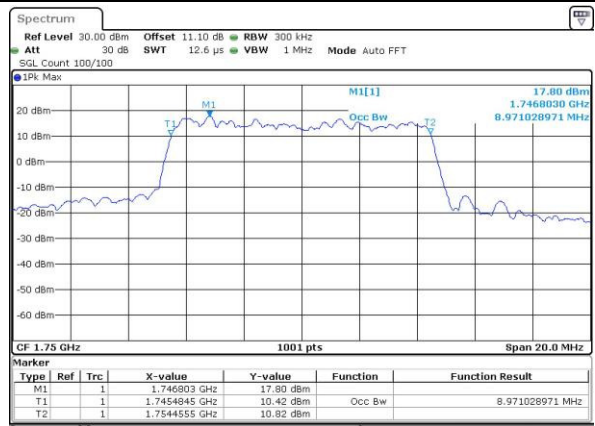
Date: 31.AUG.2016 23:13:29

Highest Channel / 10MHz / QPSK



Date: 31.AUG.2016 23:16:01

Highest Channel / 10MHz / 16QAM

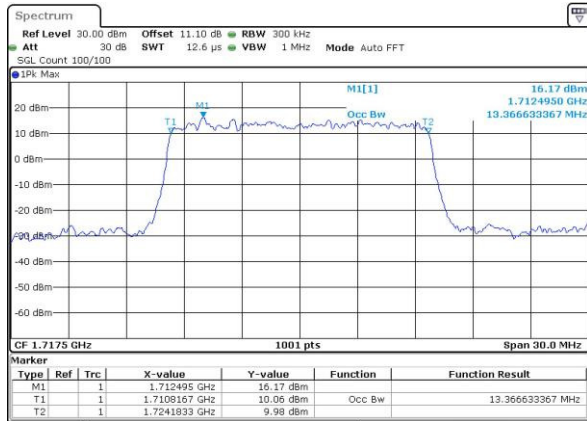


Date: 31.AUG.2016 23:16:13



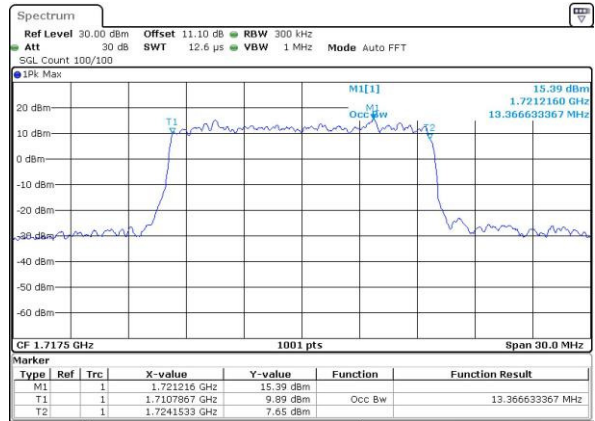
LTE Band 4

Lowest Channel / 15MHz / QPSK



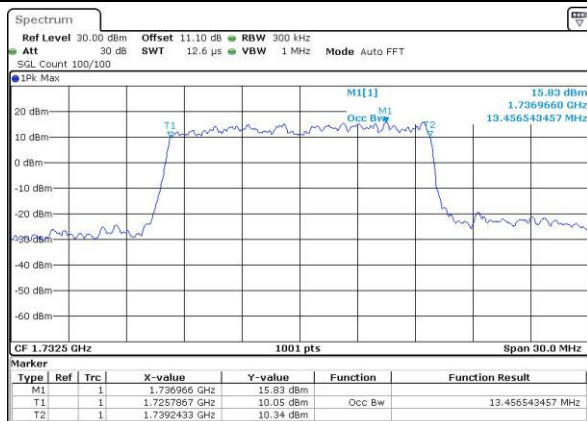
Date: 31.AUG.2016 23:29:13

Lowest Channel / 15MHz / 16QAM



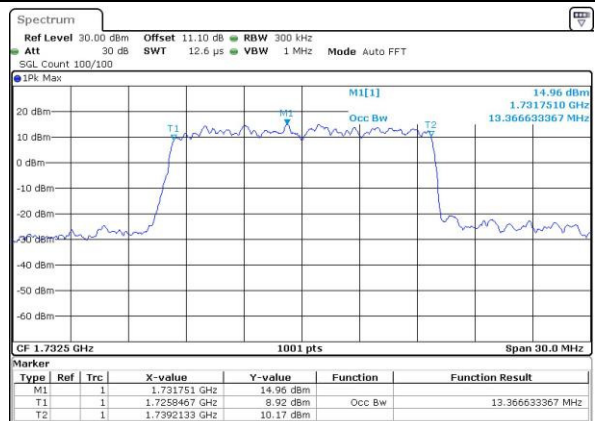
Date: 31.AUG.2016 23:29:45

Middle Channel / 15MHz / QPSK



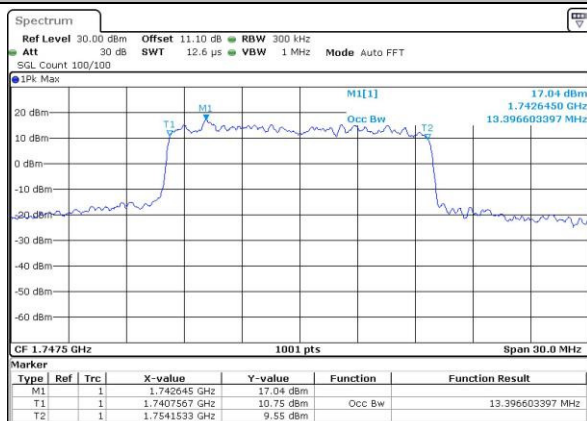
Date: 31.AUG.2016 23:36:54

Middle Channel / 15MHz / 16QAM



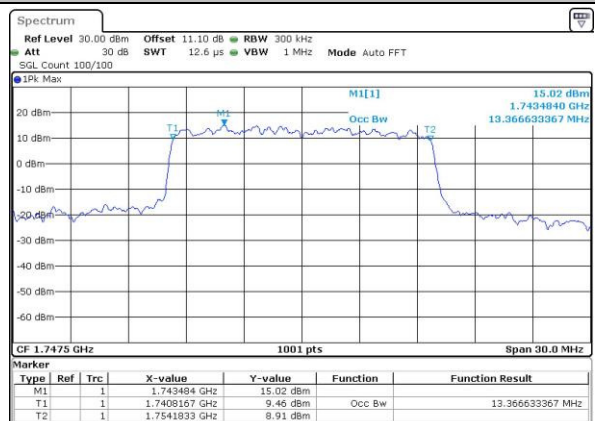
Date: 31.AUG.2016 23:37:06

Highest Channel / 15MHz / QPSK



Date: 31.AUG.2016 23:39:37

Highest Channel / 15MHz / 16QAM

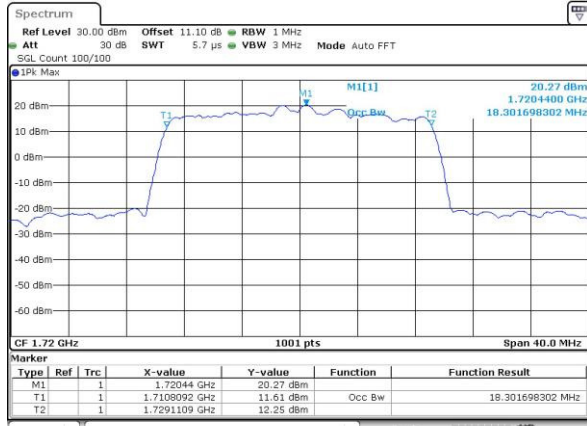


Date: 31.AUG.2016 23:39:49



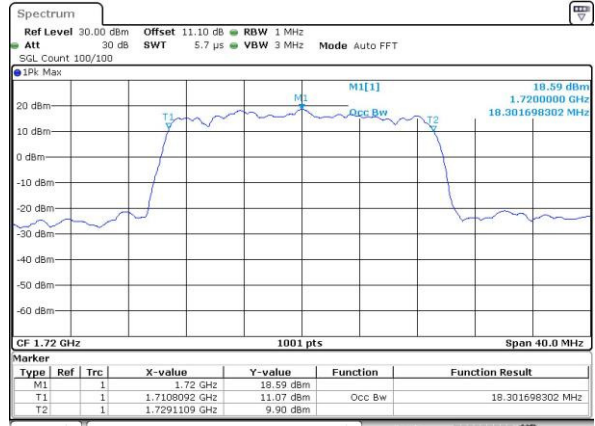
LTE Band 4

Lowest Channel / 20MHz / QPSK



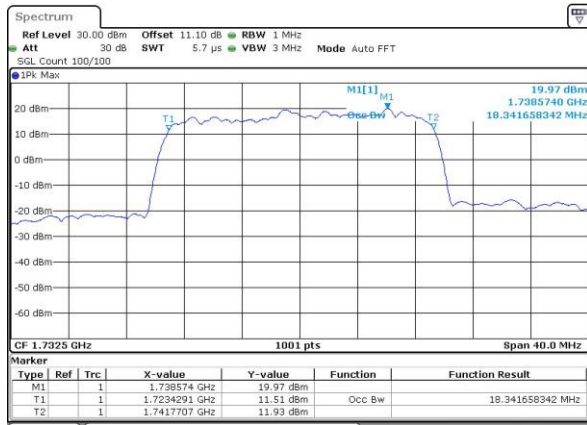
Date: 31.AUG.2016 23:46:58

Lowest Channel / 20MHz / 16QAM



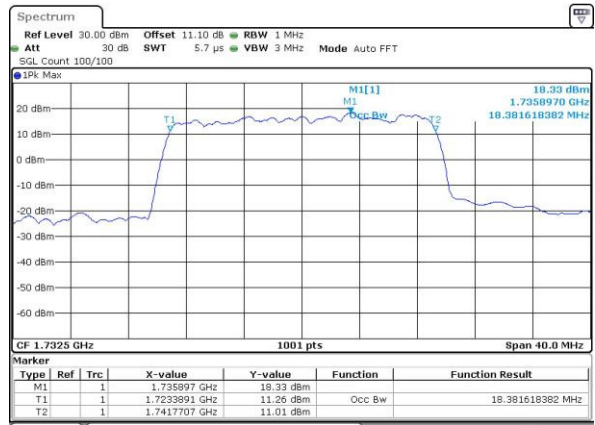
Date: 31.AUG.2016 23:47:09

Middle Channel / 20MHz / QPSK



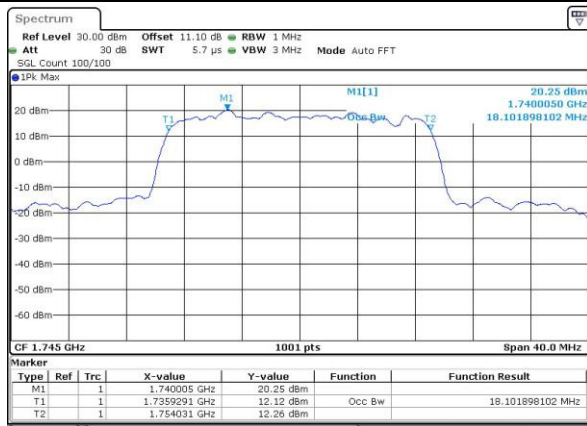
Date: 31.AUG.2016 23:54:19

Middle Channel / 20MHz / 16QAM



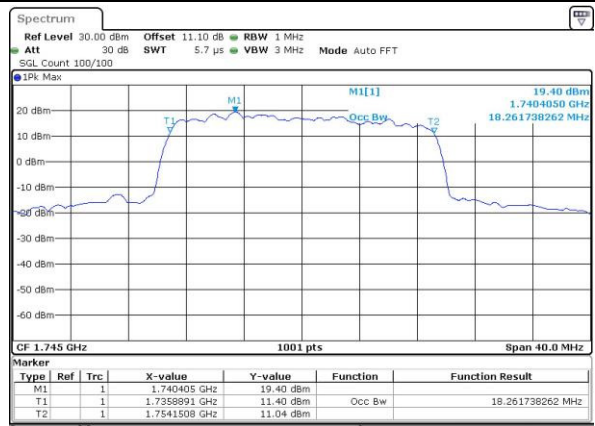
Date: 31.AUG.2016 23:54:31

Highest Channel / 20MHz / QPSK



Date: 31.AUG.2016 23:57:02

Highest Channel / 20MHz / 16QAM



Date: 31.AUG.2016 23:57:14



Conducted Band Edge