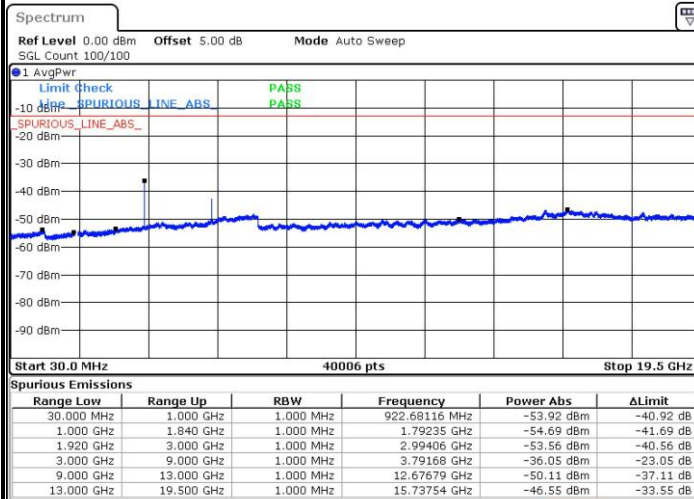




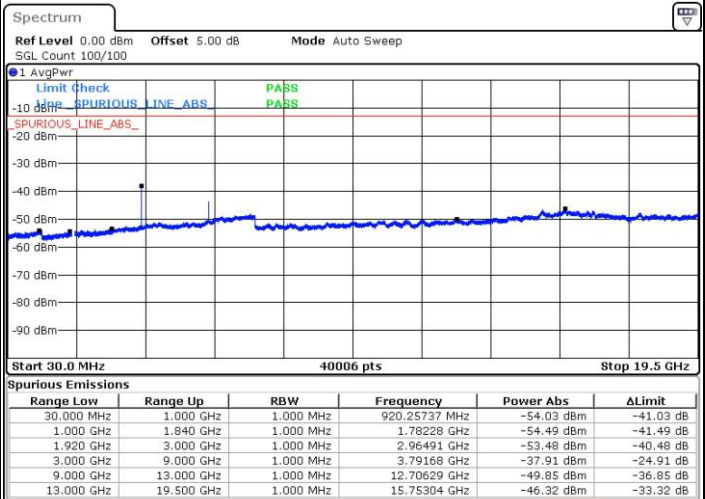
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 5 JUN 2016 04:36:58

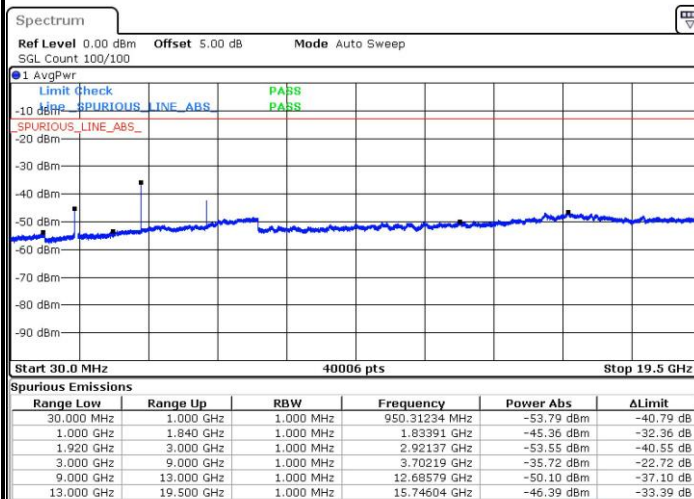
Highest Channel / 16QAM



Date: 5 JUN 2016 04:37:53

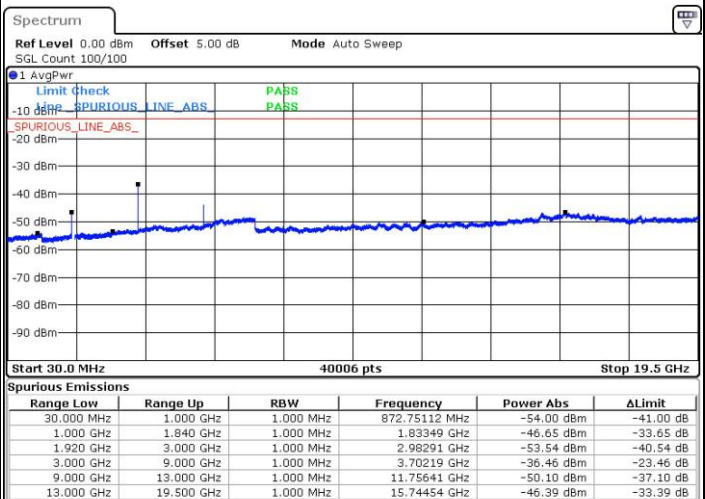
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 5 JUN 2016 04:44:02

Lowest Channel / 16QAM

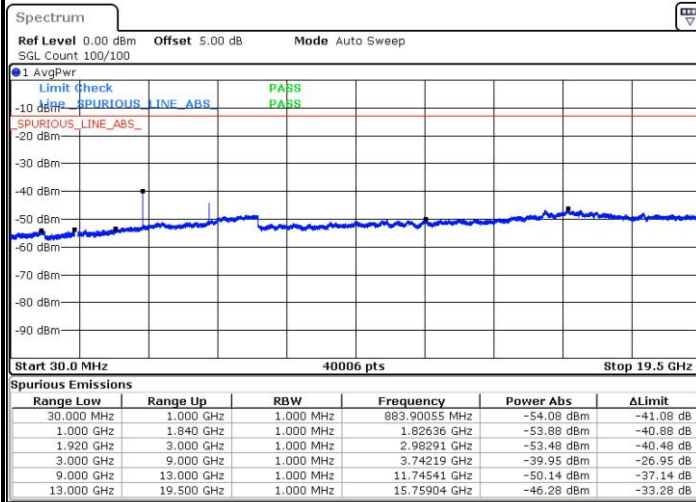


Date: 5 JUN 2016 04:44:57



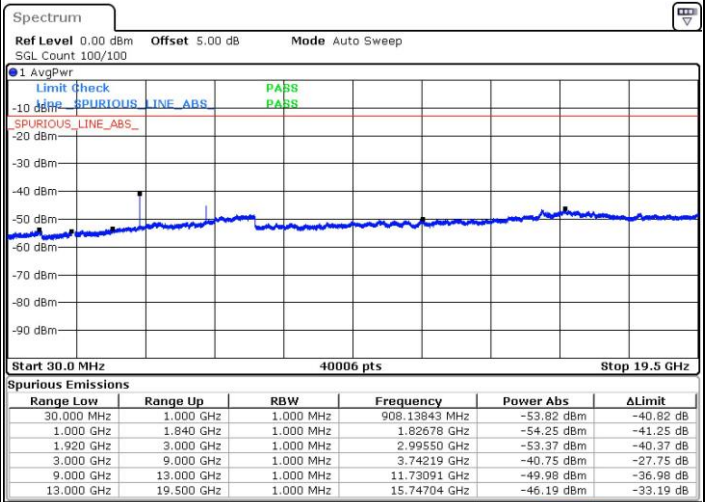
LTE Band 2 / 20MHz

Middle Channel / QPSK



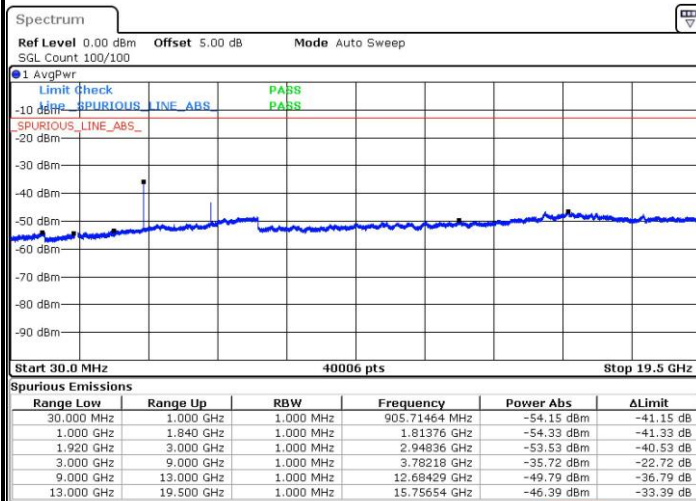
Date: 5 JUN 2016 04:46:34

Middle Channel / 16QAM



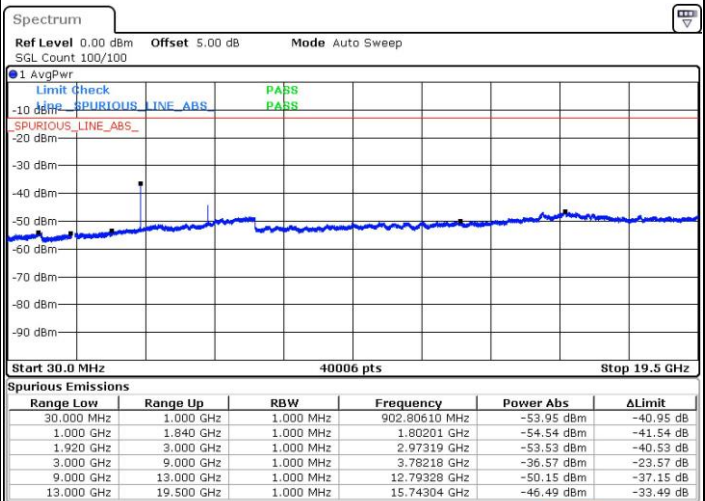
Date: 5 JUN 2016 04:47:30

Highest Channel / QPSK



Date: 5 JUN 2016 04:53:38

Highest Channel / 16QAM



Date: 5 JUN 2016 04:54:34

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	0.0012	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2V
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	RB Size	Result
Lowest CH	3.30	4.70	4.41	5.68	PASS
Middle CH	3.83	4.49	4.87	5.54	
Highest CH	3.59	4.67	4.06	5.71	



LTE Band 4 / 20MHz / QPSK

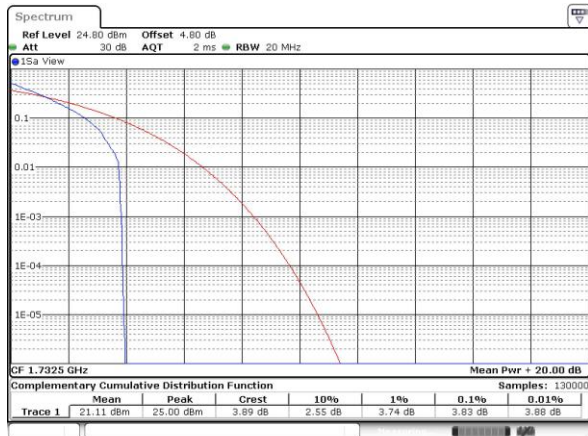
Lowest Channel / 1RB



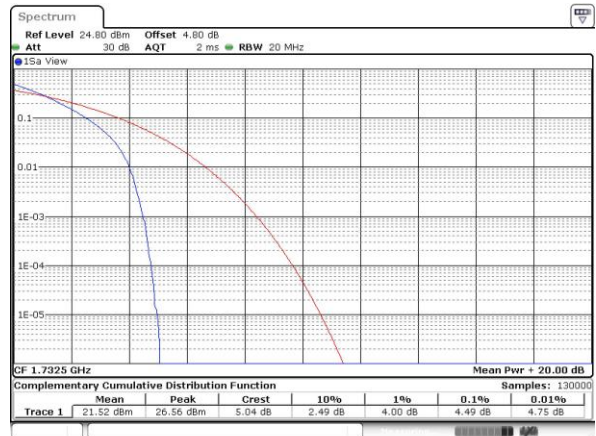
Lowest Channel / Full RB



Middle Channel / 1RB



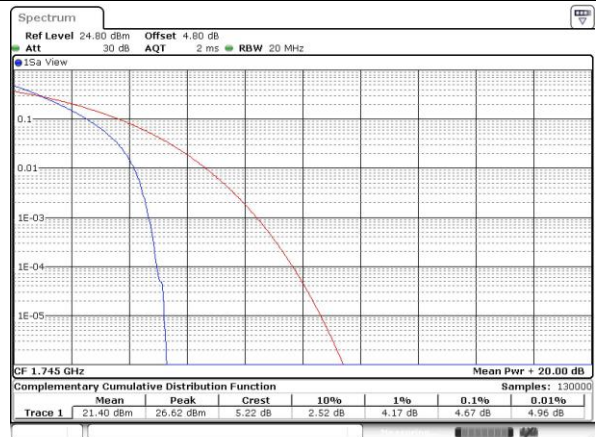
Middle Channel / Full RB

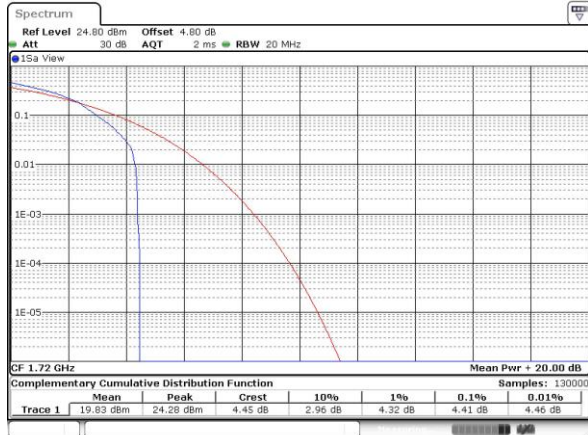


Highest Channel / 1RB

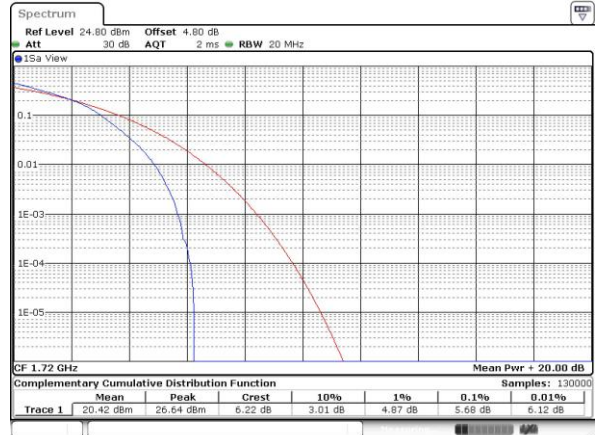


Highest Channel / Full RB

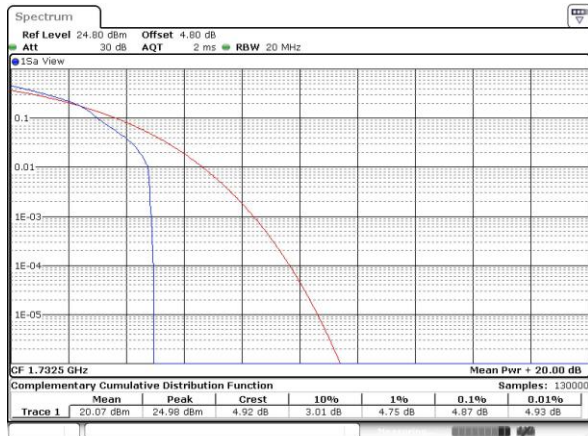


LTE Band 4 / 20MHz / 16QAM
Lowest Channel / 1RB


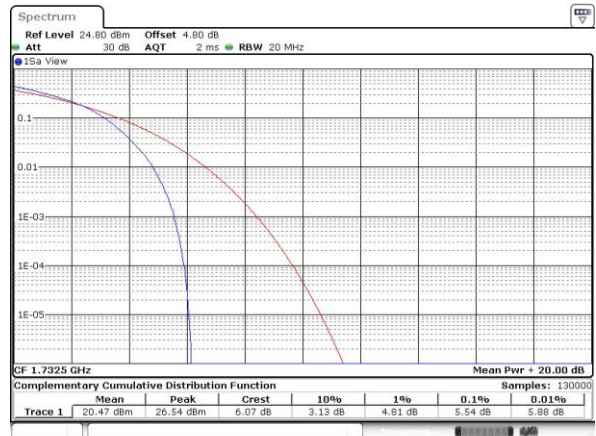
Date: 4 JUN 2016 13:15:54

Lowest Channel / Full RB


Date: 4 JUN 2016 13:16:04

Middle Channel / 1RB


Date: 4 JUN 2016 13:16:14

Middle Channel / Full RB


Date: 4 JUN 2016 13:16:24

Highest Channel / 1RB


Date: 4 JUN 2016 13:16:37

Highest Channel / Full RB


Date: 4 JUN 2016 13:16:47

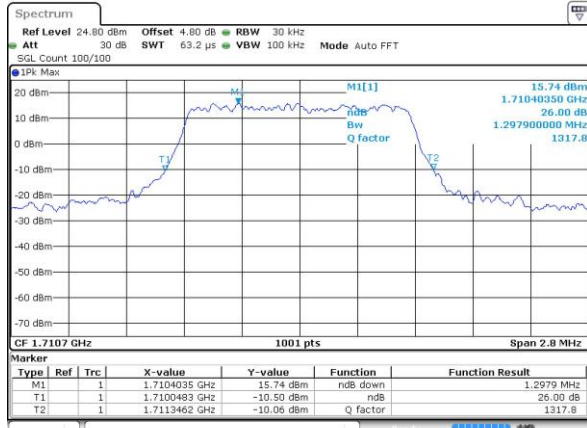
**26dB Bandwidth**

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	1.3	1.25	3	3	4.91	4.89	9.73	9.85	14.69	14.45	20.22	20.14
Middle CH	1.26	1.25	3.01	3	4.97	4.97	9.79	9.85	14.42	14.63	20.06	20.1
Highest CH	1.26	1.29	3.02	3.03	4.92	4.92	9.91	9.87	14.42	14.36	20.26	20.1



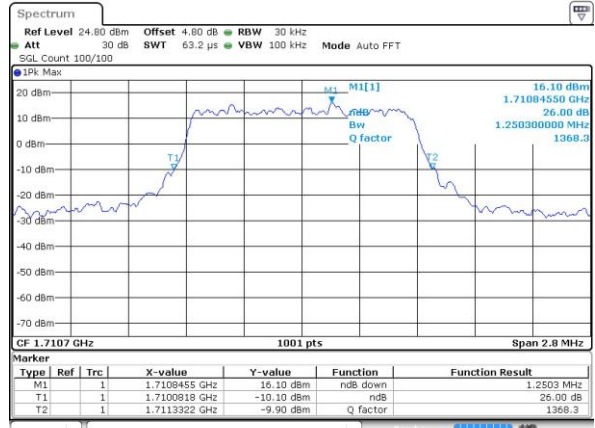
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



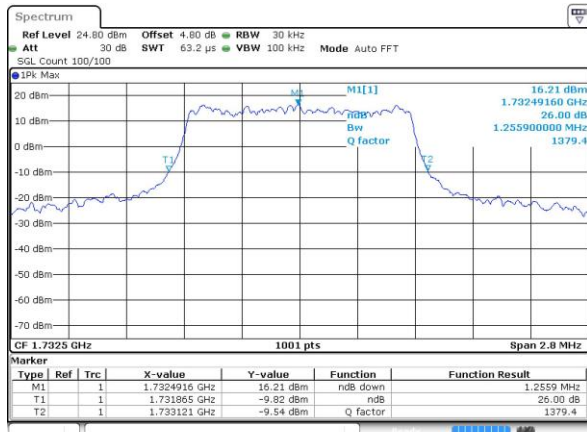
Date: 4 JUN 2016 11:33:50

Lowest Channel / 1.4MHz / 16QAM



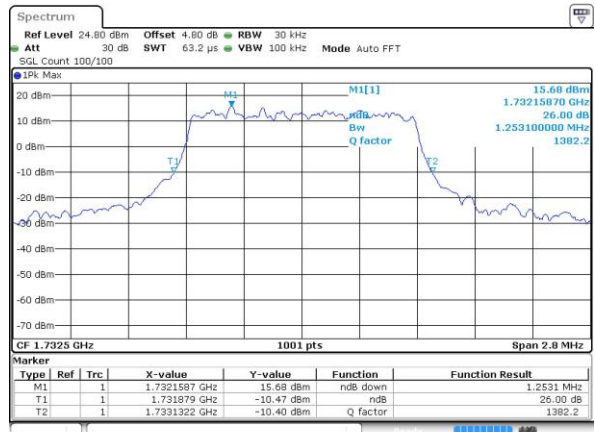
Date: 4 JUN 2016 11:34:01

Middle Channel / 1.4MHz / QPSK



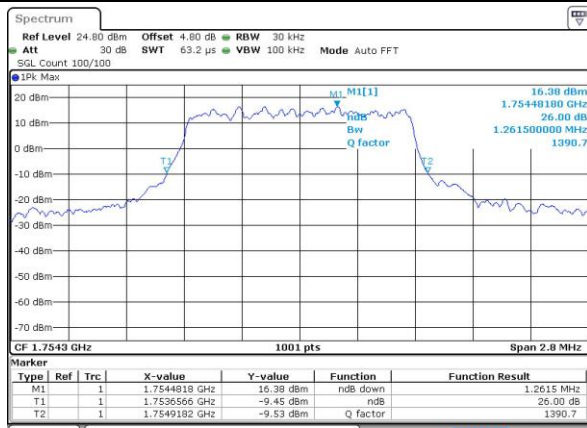
Date: 4 JUN 2016 11:40:55

Middle Channel / 1.4MHz / 16QAM



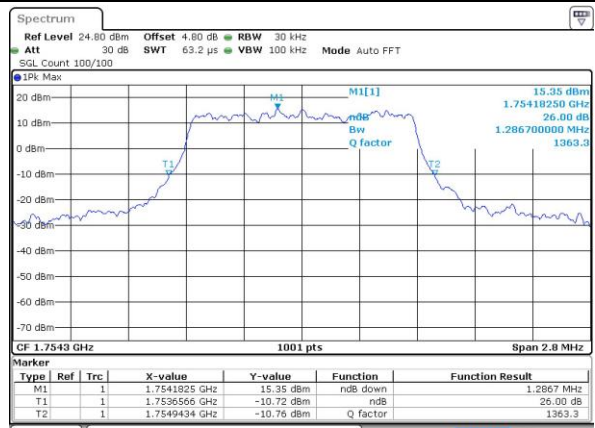
Date: 4 JUN 2016 11:41:06

Highest Channel / 1.4MHz / QPSK



Date: 4 JUN 2016 11:43:28

Highest Channel / 1.4MHz / 16QAM

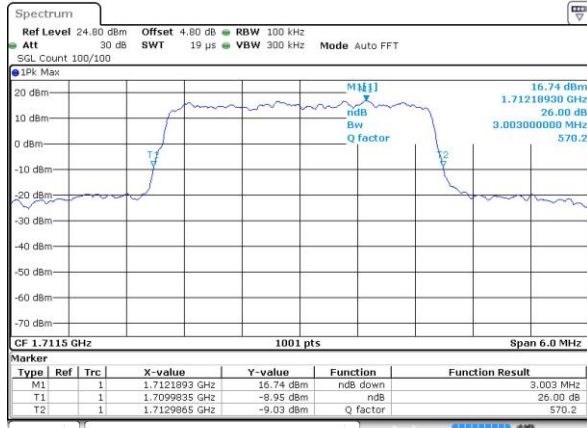


Date: 4 JUN 2016 11:43:38



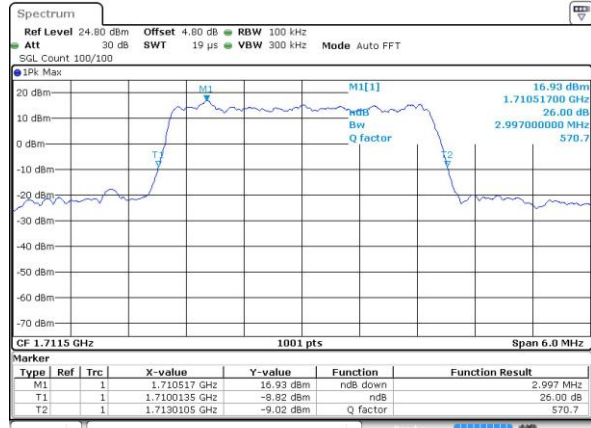
LTE Band 4

Lowest Channel / 3MHz / QPSK



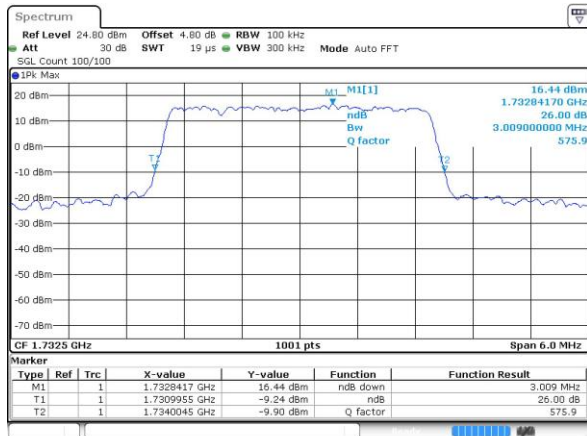
Date: 4 JUN 2016 11:50:32

Lowest Channel / 3MHz / 16QAM



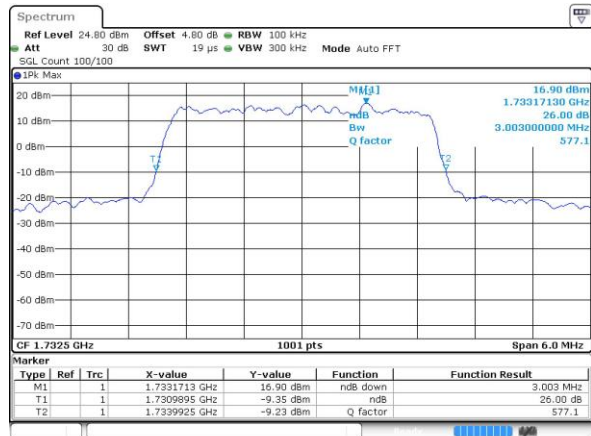
Date: 4 JUN 2016 11:50:43

Middle Channel / 3MHz / QPSK



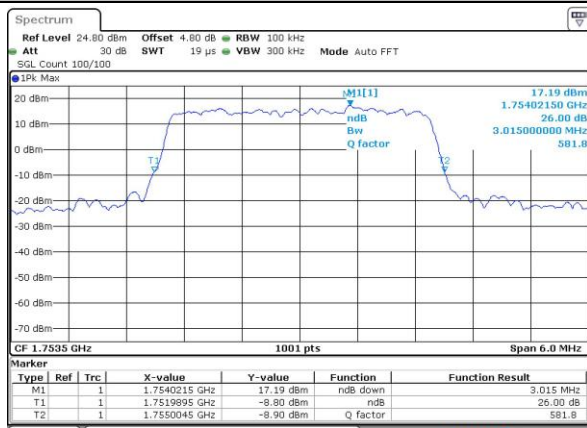
Date: 4 JUN 2016 11:57:37

Middle Channel / 3MHz / 16QAM



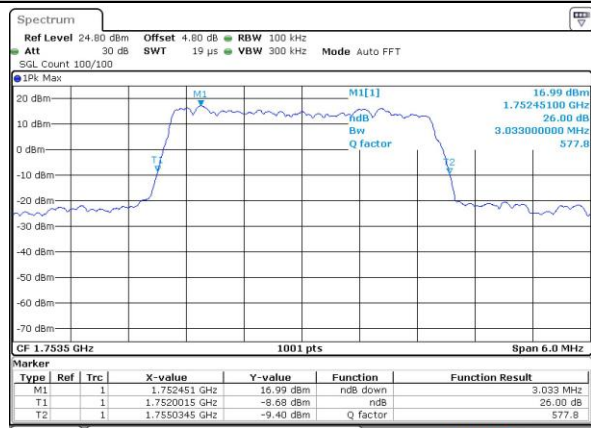
Date: 4 JUN 2016 11:57:48

Highest Channel / 3MHz / QPSK



Date: 4 JUN 2016 12:00:10

Highest Channel / 3MHz / 16QAM

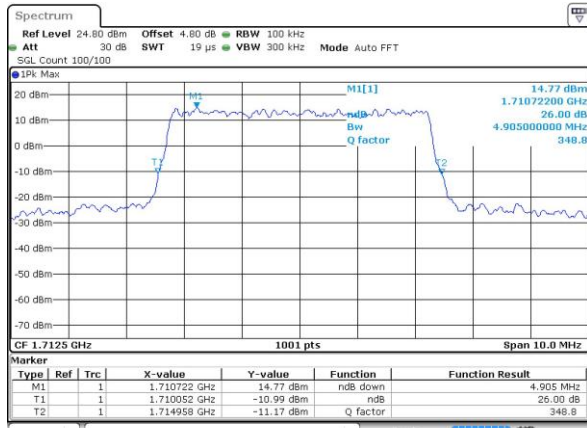


Date: 4 JUN 2016 12:00:21



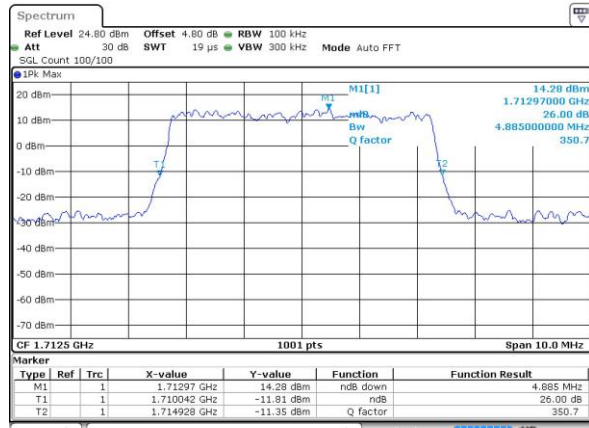
LTE Band 4

Lowest Channel / 5MHz / QPSK



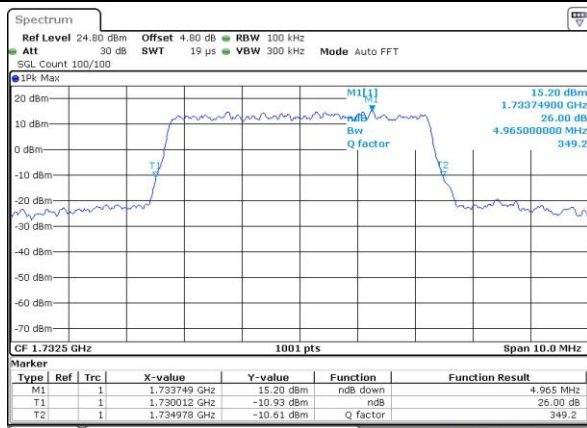
Date: 4 JUN 2016 12:07:15

Lowest Channel / 5MHz / 16QAM



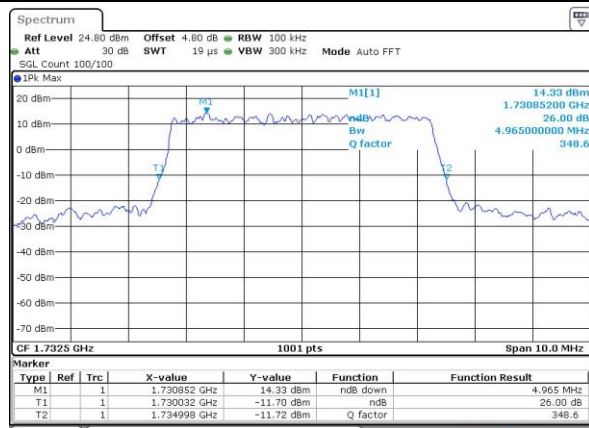
Date: 4 JUN 2016 12:07:26

Middle Channel / 5MHz / QPSK



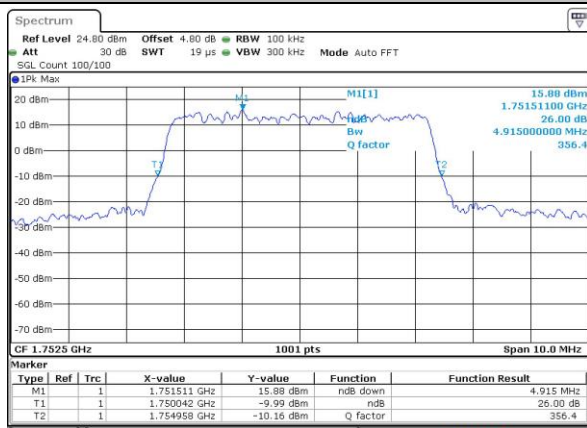
Date: 4 JUN 2016 12:14:20

Middle Channel / 5MHz / 16QAM



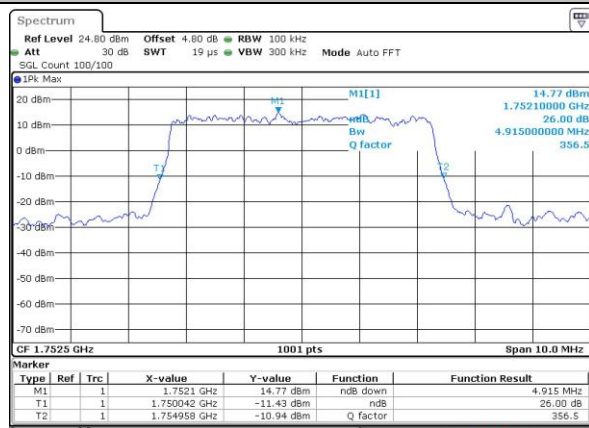
Date: 4 JUN 2016 12:14:31

Highest Channel / 5MHz / QPSK



Date: 4 JUN 2016 12:16:53

Highest Channel / 5MHz / 16QAM

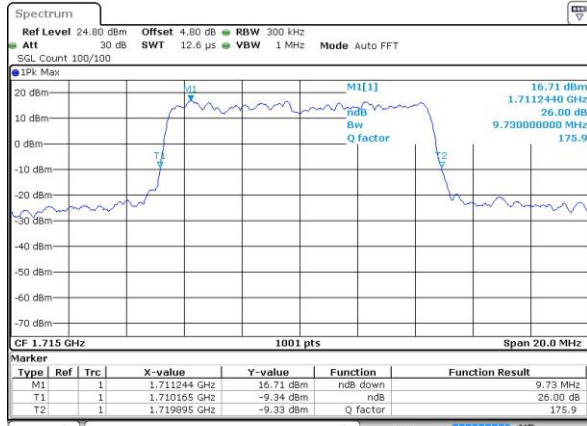


Date: 4 JUN 2016 12:17:04

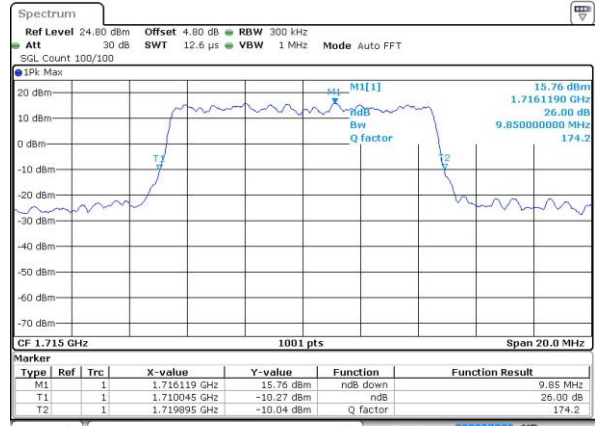


LTE Band 4

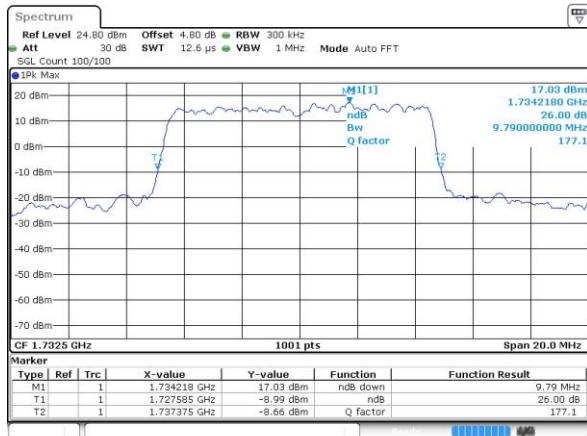
Lowest Channel / 10MHz / QPSK



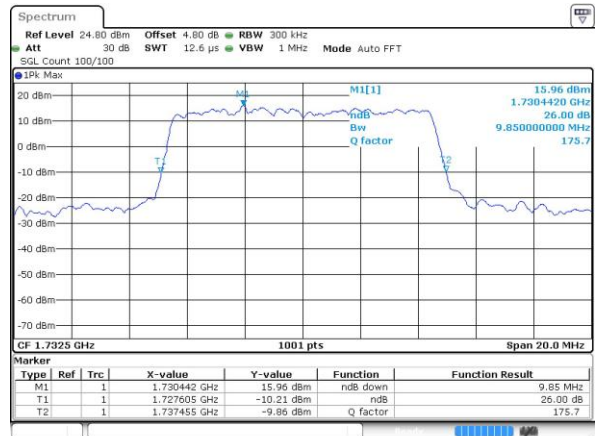
Lowest Channel / 10MHz / 16QAM



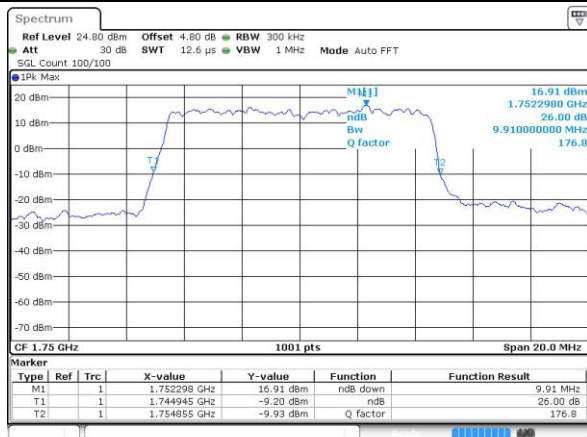
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



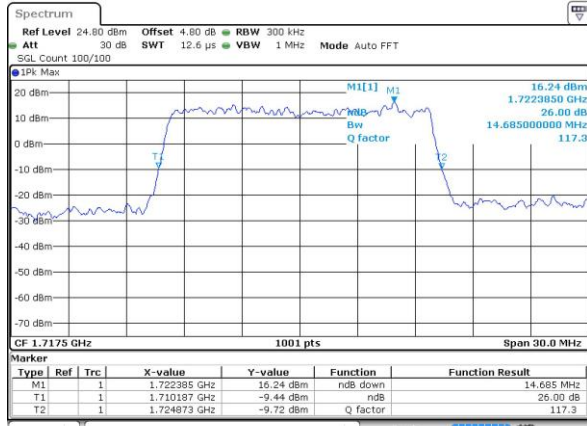
Highest Channel / 10MHz / 16QAM





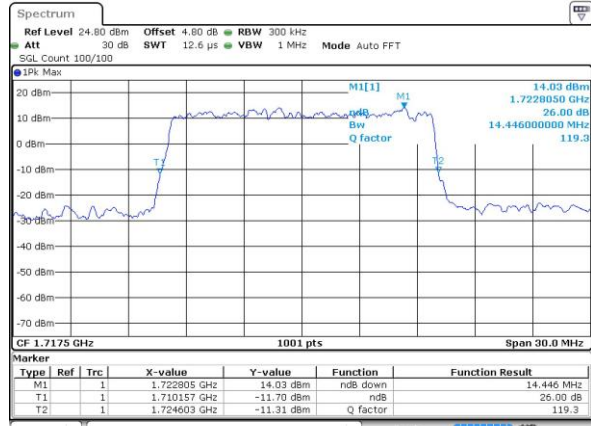
LTE Band 4

Lowest Channel / 15MHz / QPSK



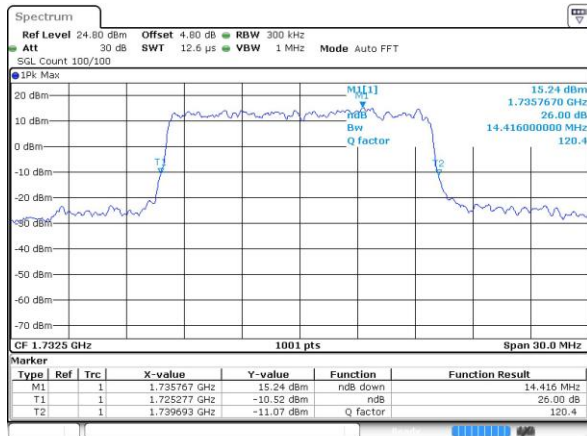
Date: 4 JUN 2016 12:40:40

Lowest Channel / 15MHz / 16QAM



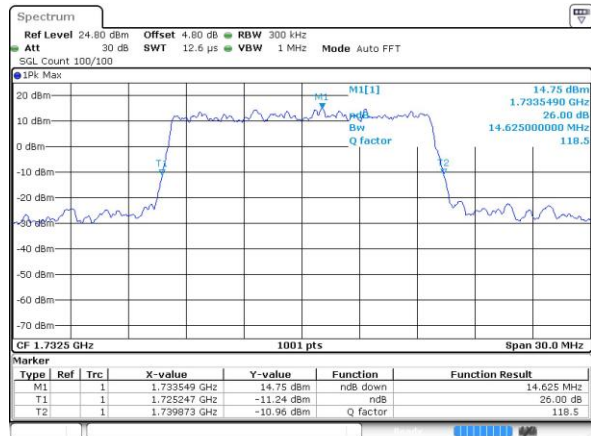
Date: 4 JUN 2016 12:40:51

Middle Channel / 15MHz / QPSK



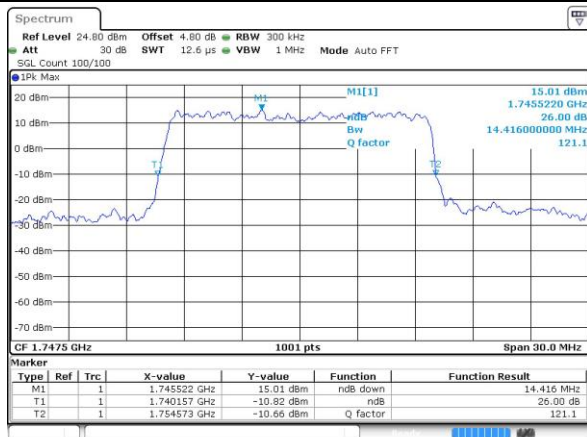
Date: 4 JUN 2016 12:47:45

Middle Channel / 15MHz / 16QAM



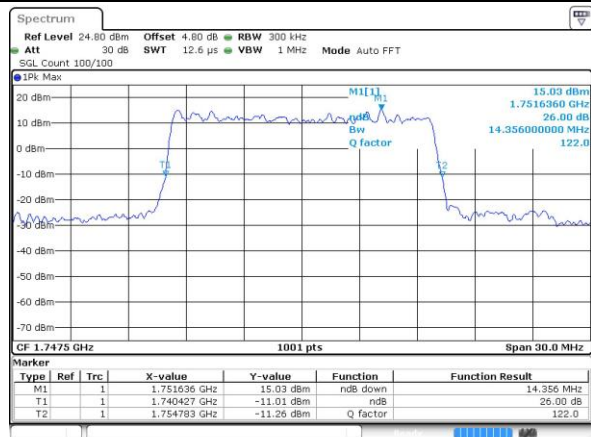
Date: 4 JUN 2016 12:47:56

Highest Channel / 15MHz / QPSK



Date: 4 JUN 2016 12:50:18

Highest Channel / 15MHz / 16QAM

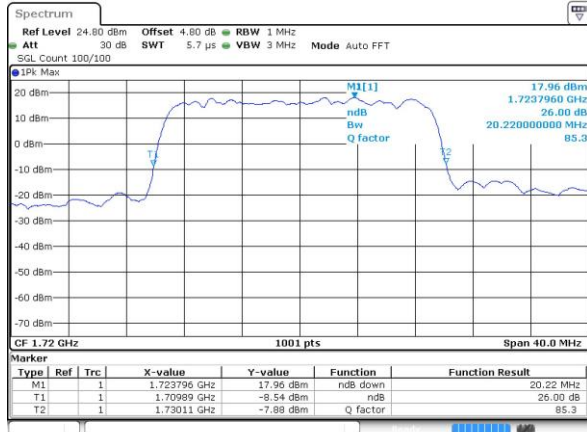


Date: 4 JUN 2016 12:50:29

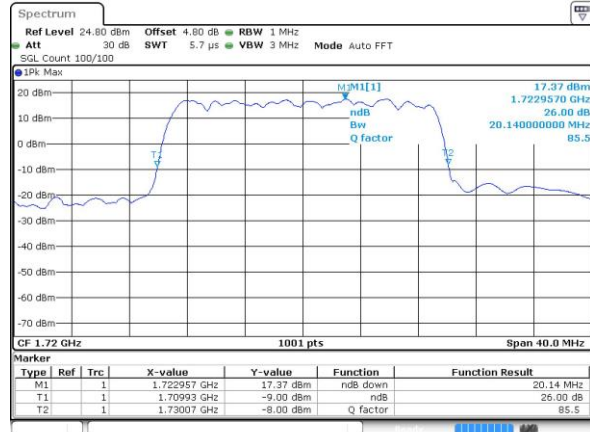


LTE Band 4

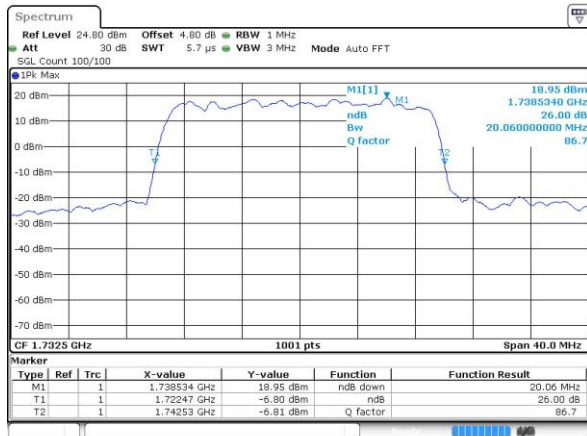
Lowest Channel / 20MHz / QPSK



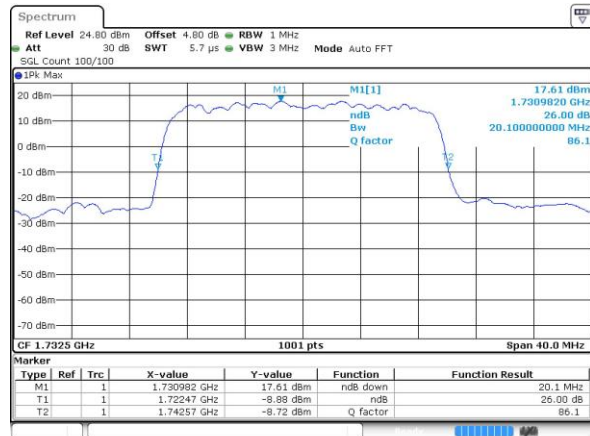
Lowest Channel / 20MHz / 16QAM



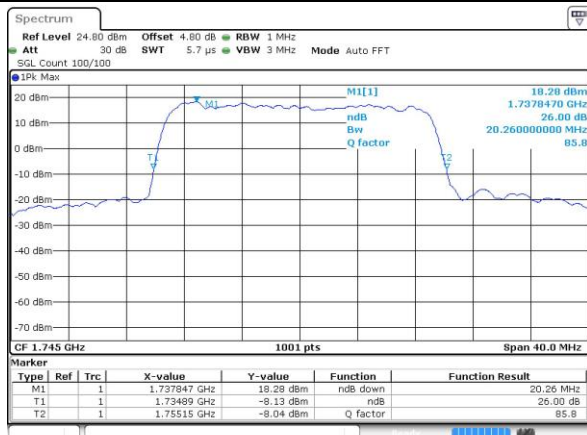
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

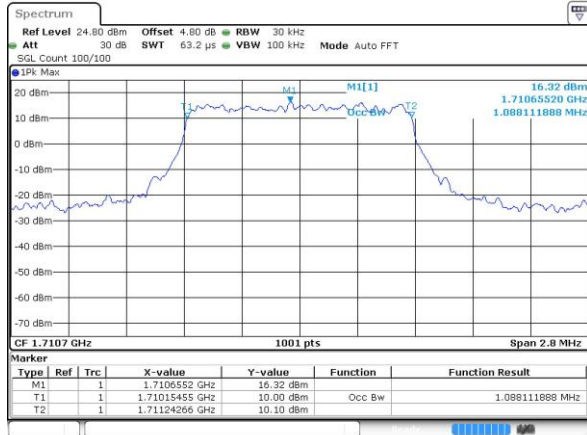


Highest Channel / 20MHz / 16QAM

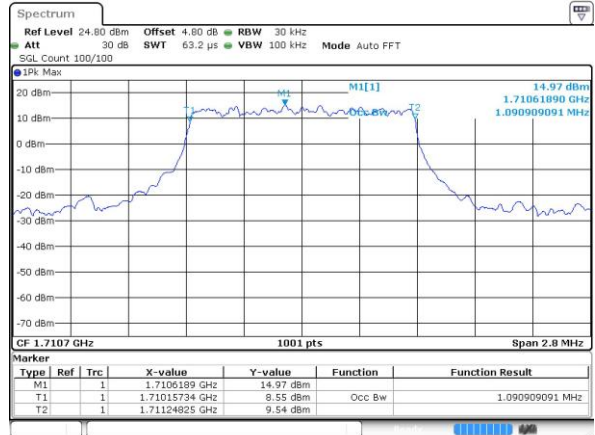


**Occupied Bandwidth**

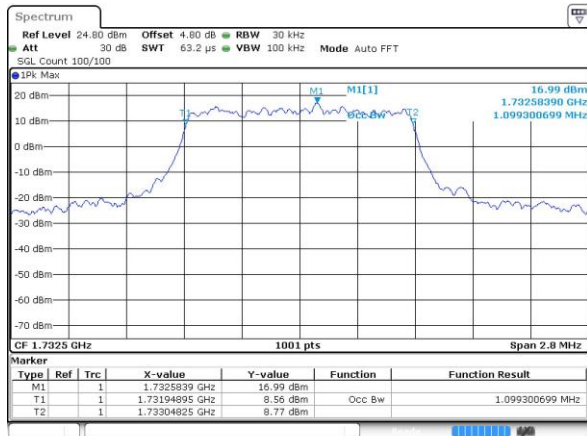
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.75	4.48	4.51	9.07	9.03	13.43	13.46	18.34	18.42
Middle CH	1.10	1.09	2.72	2.73	4.49	4.50	9.05	9.05	13.34	13.43	18.18	18.42
Highest CH	1.09	1.09	2.73	2.72	4.49	4.50	9.05	9.03	13.46	13.43	18.38	18.42

**LTE Band 4****Lowest Channel / 1.4MHz / QPSK**

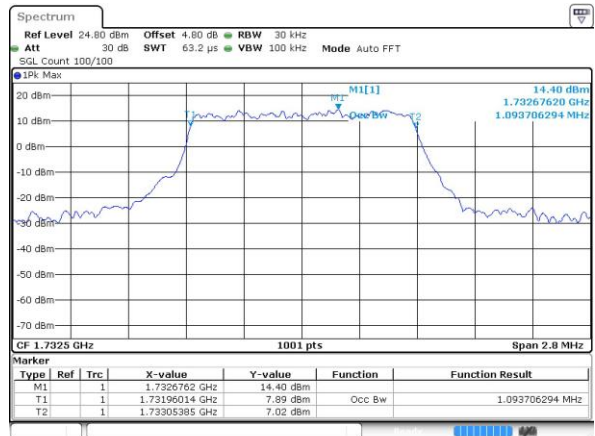
Date: 4 JUN 2016 11:33:29

Lowest Channel / 1.4MHz / 16QAM

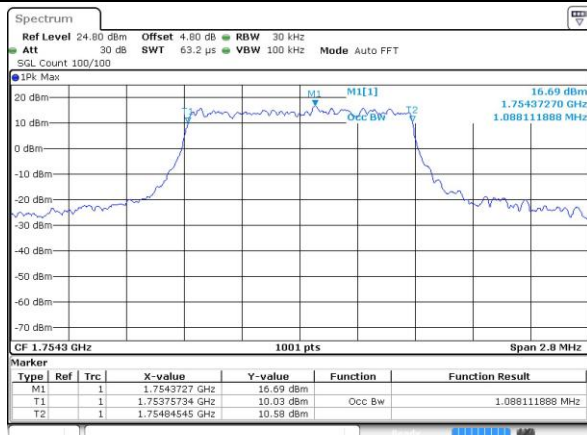
Date: 4 JUN 2016 11:33:40

Middle Channel / 1.4MHz / QPSK

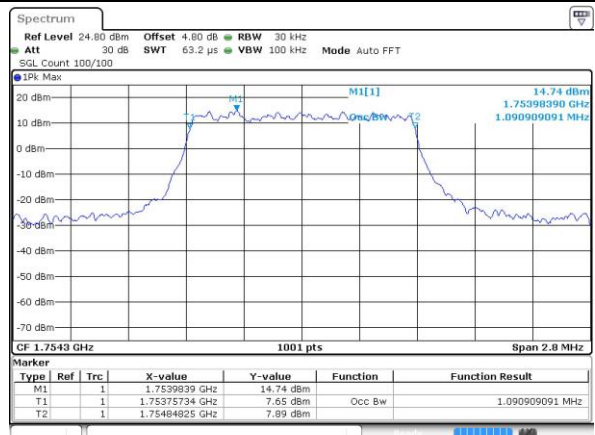
Date: 4 JUN 2016 11:40:34

Middle Channel / 1.4MHz / 16QAM

Date: 4 JUN 2016 11:40:45

Highest Channel / 1.4MHz / QPSK

Date: 4 JUN 2016 11:43:07

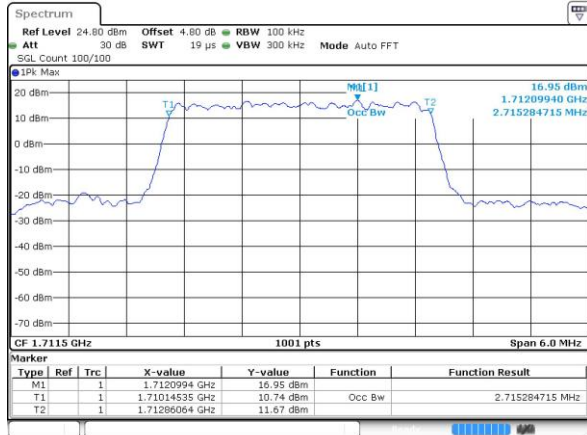
Highest Channel / 1.4MHz / 16QAM

Date: 4 JUN 2016 11:43:17

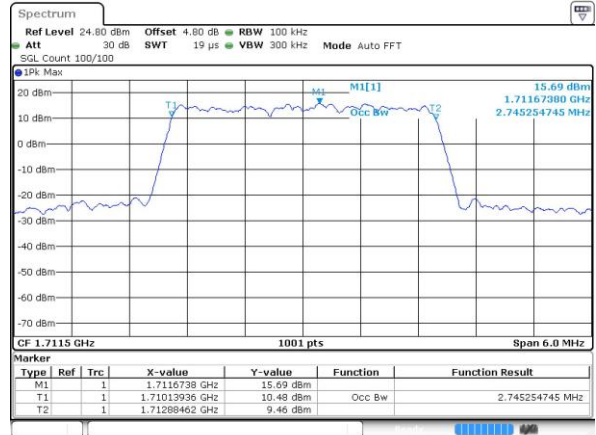


LTE Band 4

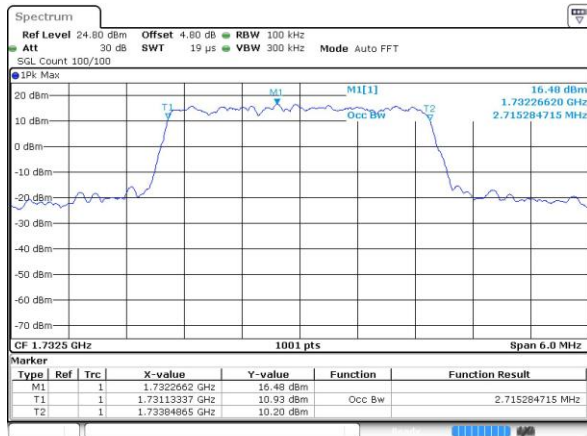
Lowest Channel / 3MHz / QPSK



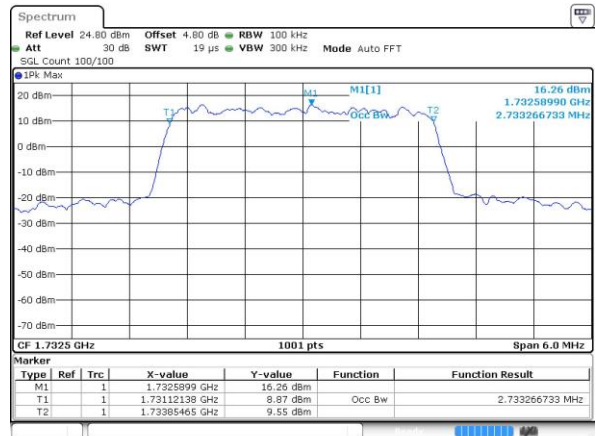
Lowest Channel / 3MHz / 16QAM



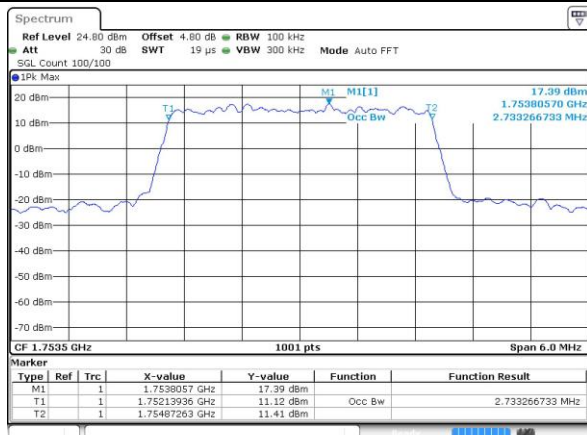
Middle Channel / 3MHz / QPSK



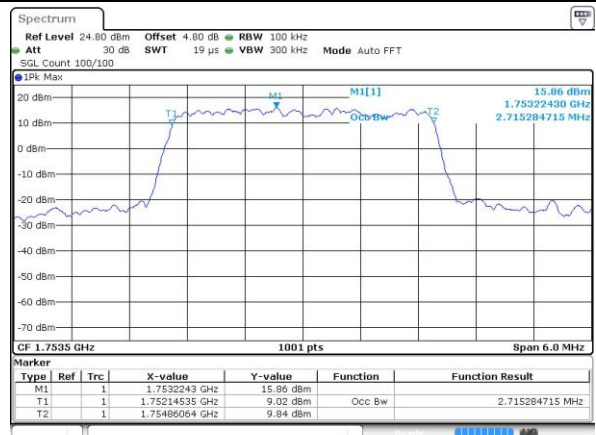
Middle Channel / 3MHz / 16QAM

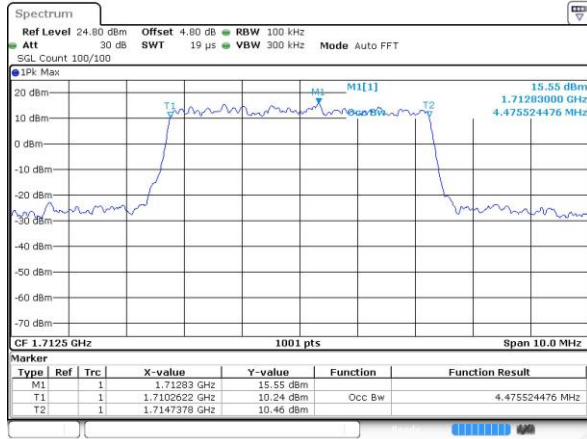
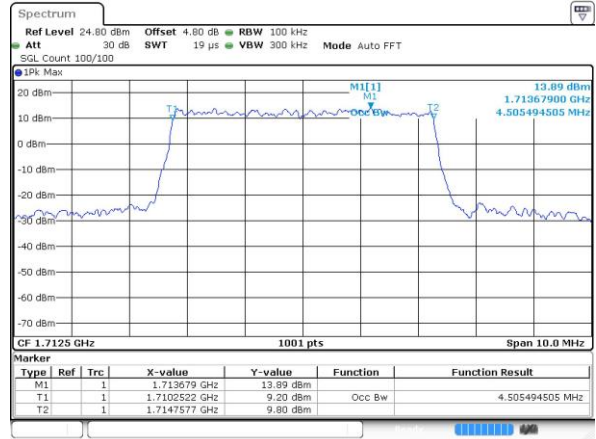
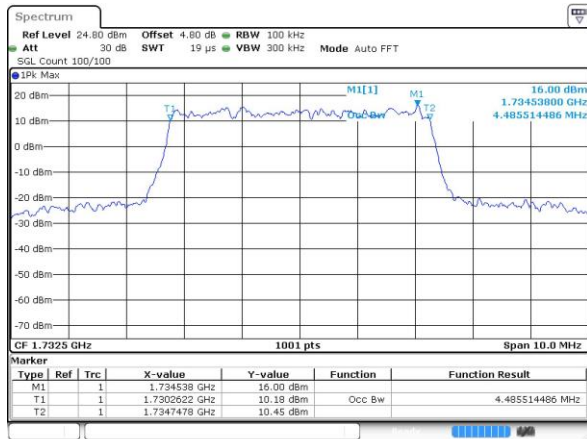
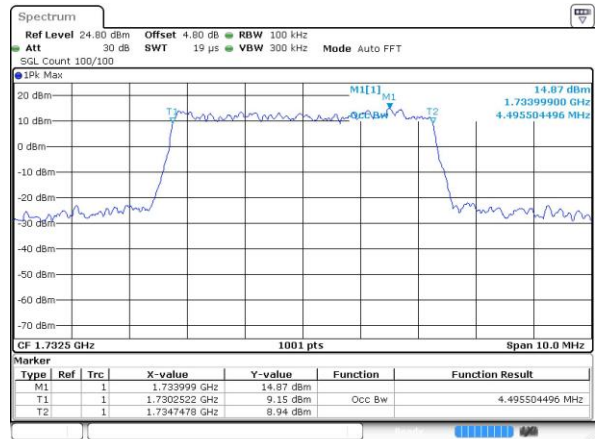
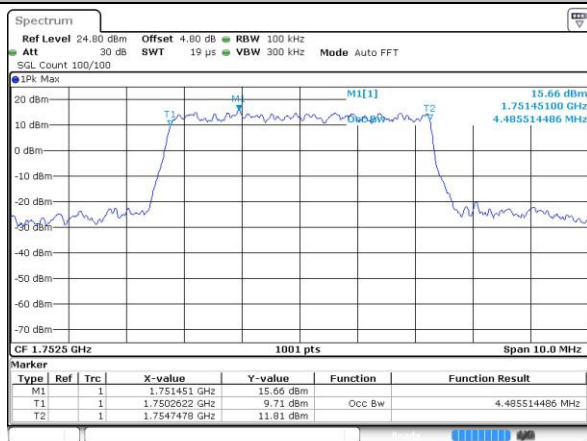
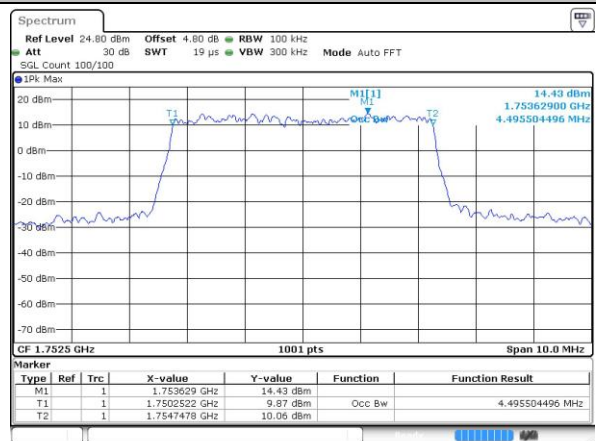


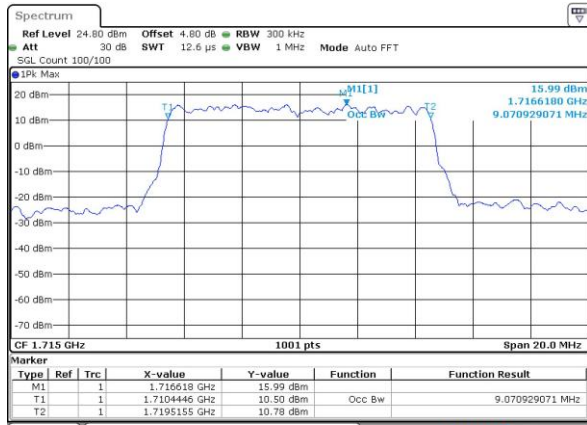
Highest Channel / 3MHz / QPSK



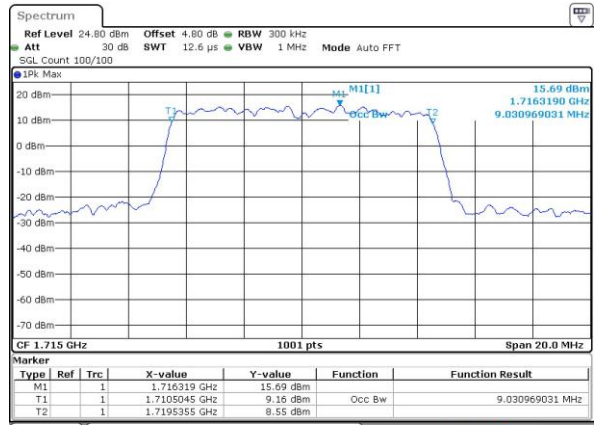
Highest Channel / 3MHz / 16QAM



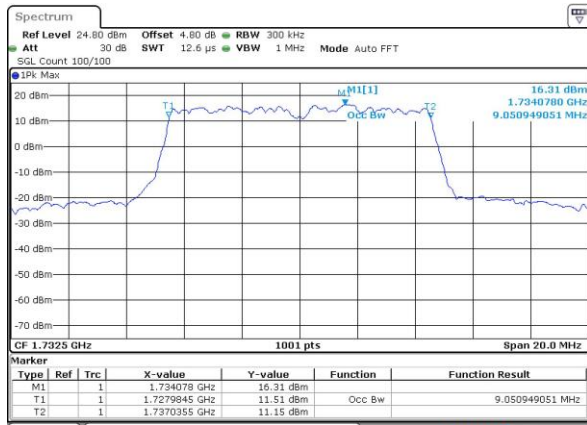
**LTE Band 4****Lowest Channel / 5MHz / QPSK****Lowest Channel / 5MHz / 16QAM****Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****Highest Channel / 5MHz / QPSK****Highest Channel / 5MHz / 16QAM**

**LTE Band 4****Lowest Channel / 10MHz / QPSK**

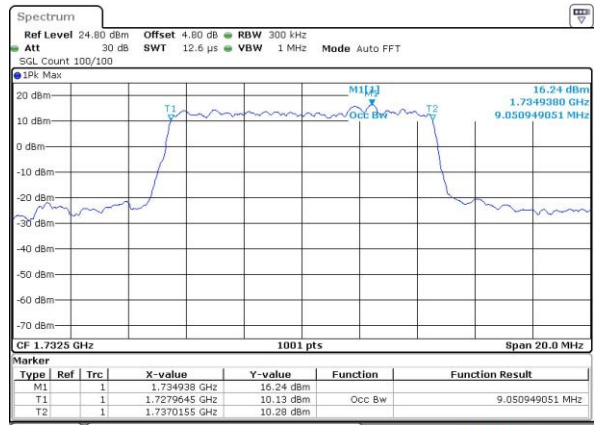
Date: 4 JUN 2016 12:23:37

Lowest Channel / 10MHz / 16QAM

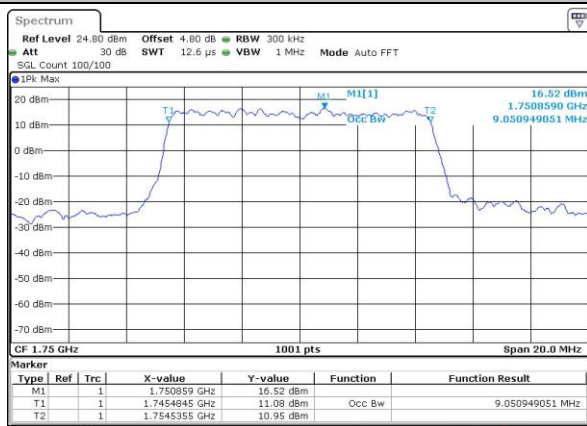
Date: 4 JUN 2016 12:23:47

Middle Channel / 10MHz / QPSK

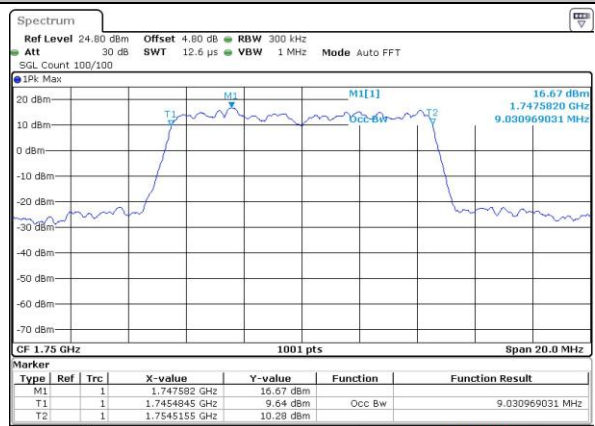
Date: 4 JUN 2016 12:30:42

Middle Channel / 10MHz / 16QAM

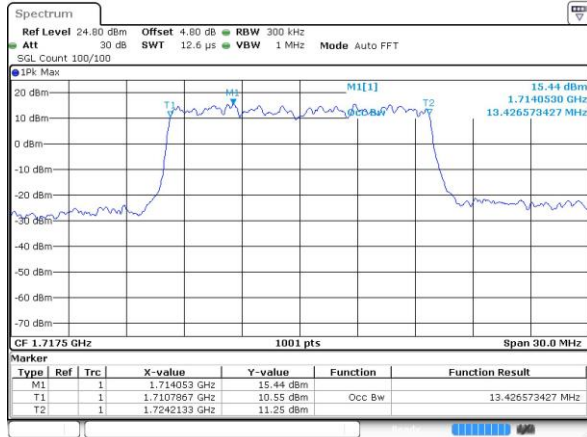
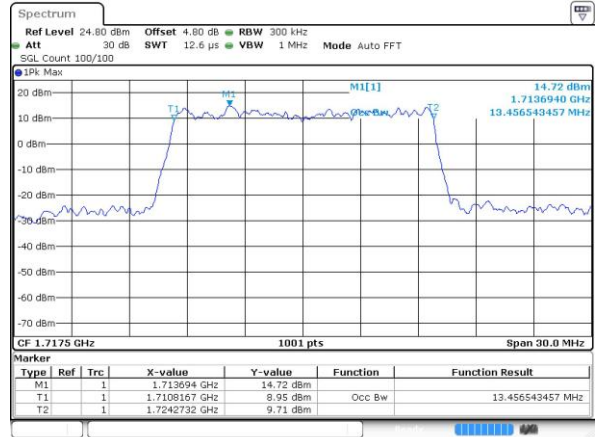
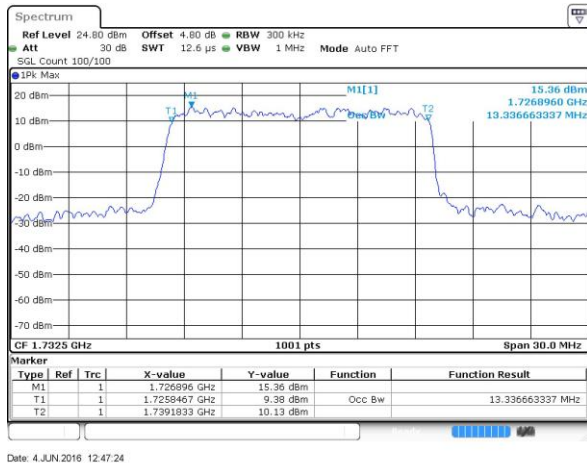
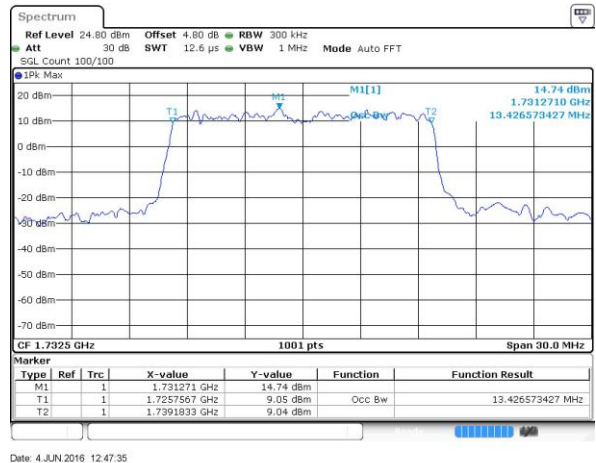
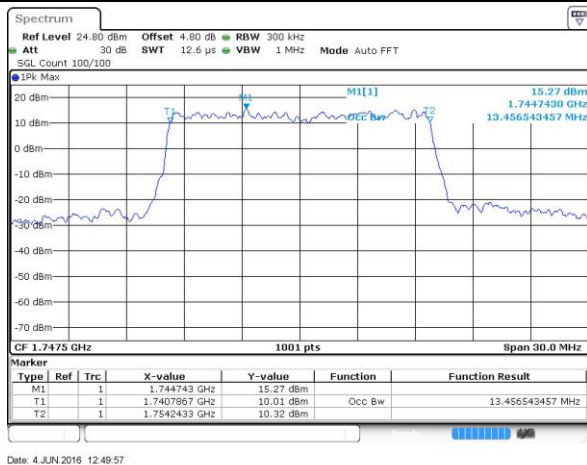
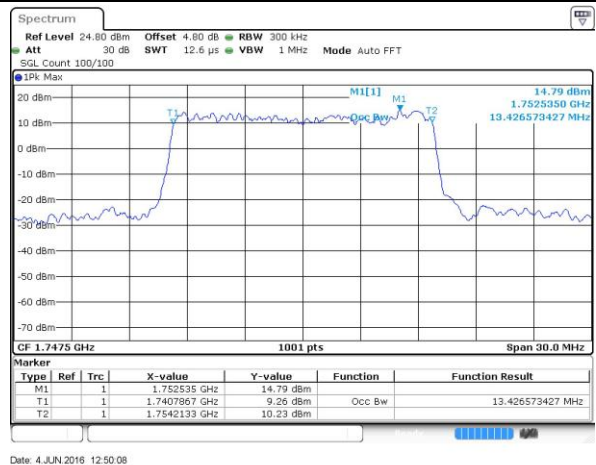
Date: 4 JUN 2016 12:30:52

Highest Channel / 10MHz / QPSK

Date: 4 JUN 2016 12:33:14

Highest Channel / 10MHz / 16QAM

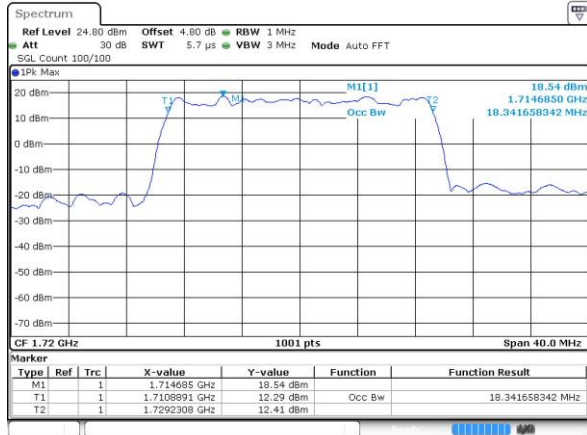
Date: 4 JUN 2016 12:33:25

**LTE Band 4****Lowest Channel / 15MHz / QPSK****Lowest Channel / 15MHz / 16QAM****Middle Channel / 15MHz / QPSK****Middle Channel / 15MHz / 16QAM****Highest Channel / 15MHz / QPSK****Highest Channel / 15MHz / 16QAM**

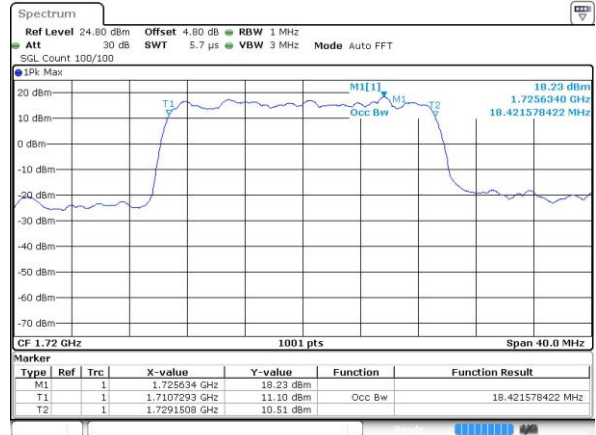


LTE Band 4

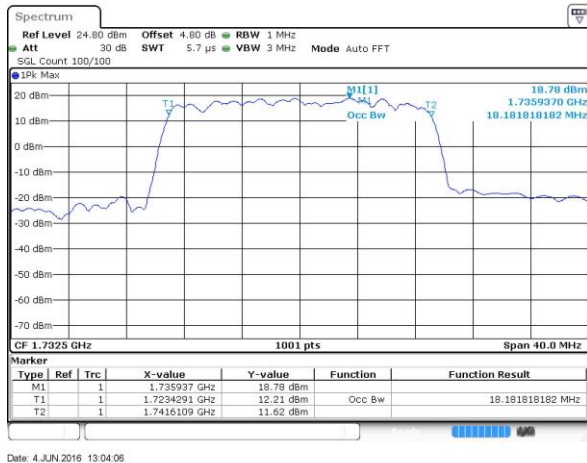
Lowest Channel / 20MHz / QPSK



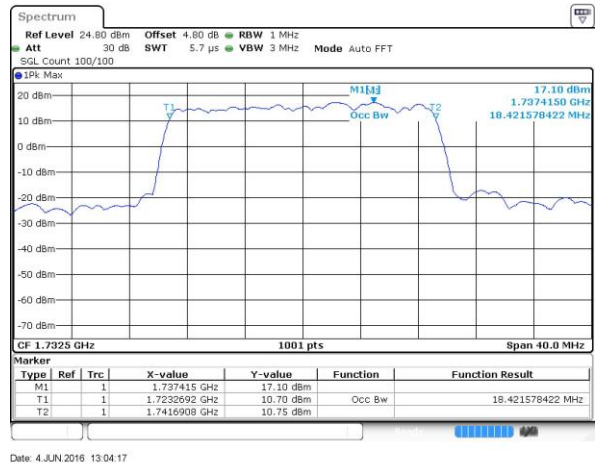
Lowest Channel / 20MHz / 16QAM



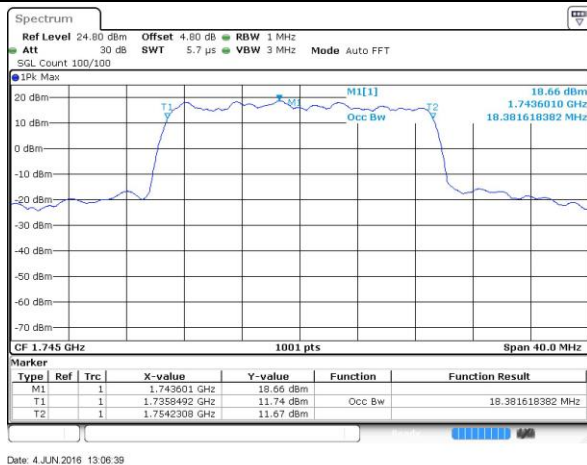
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

