



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0065	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0052	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0059	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2V
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

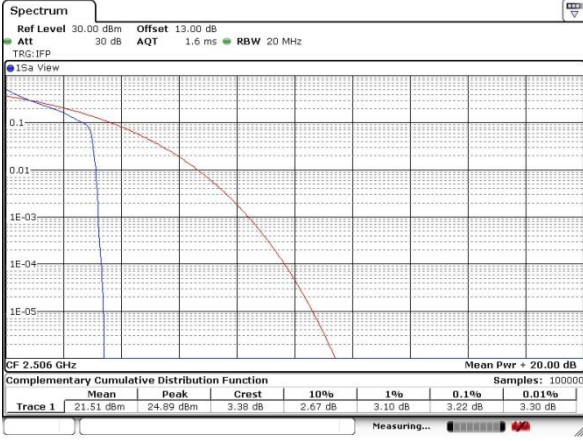
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.22	4.35	4.12	5.13	PASS
Middle CH	4.78	5.01	5.68	4.2	
Highest CH	3.22	2.61	3.94	5.51	



LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



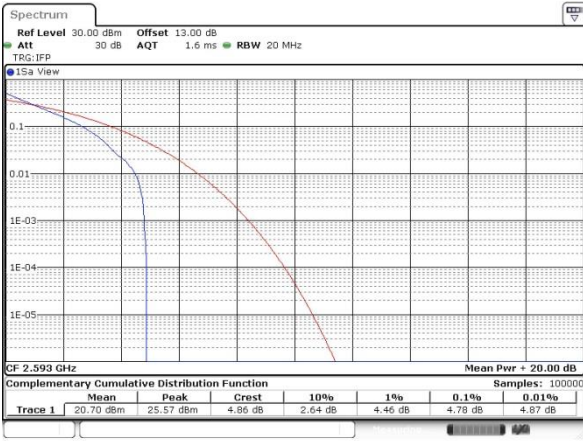
Date: 16.AUG.2015 10:35:40

Lowest Channel / Full RB



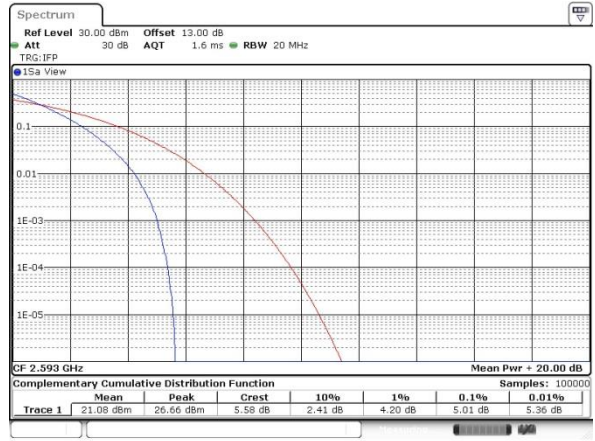
Date: 16.AUG.2015 10:36:33

Middle Channel / 1RB



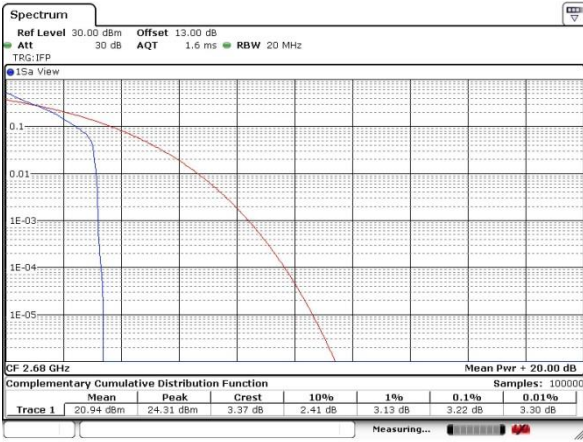
Date: 1 SEP 2015 16:12:34

Middle Channel / Full RB



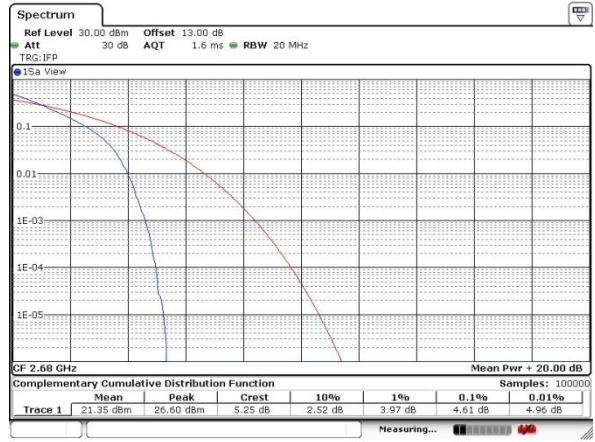
Date: 1 SEP 2015 15:52:23

Highest Channel / 1RB



Date: 16.AUG.2015 10:35:03

Highest Channel / Full RB

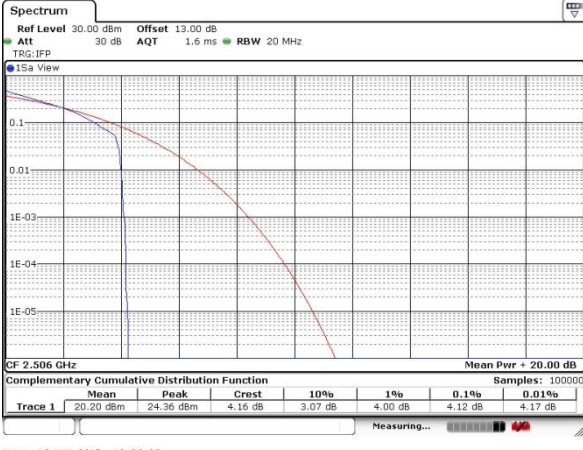


Date: 16.AUG.2015 10:33:42



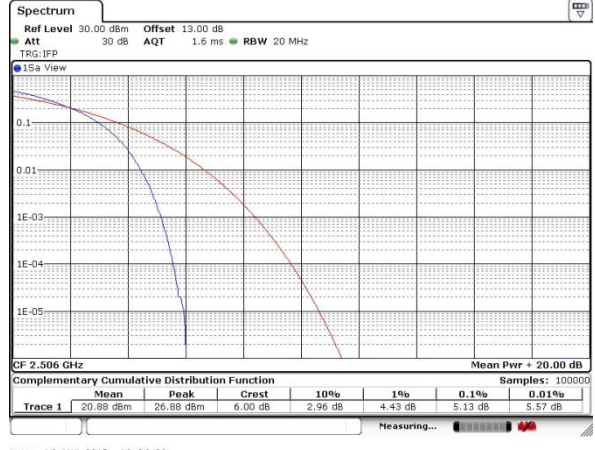
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



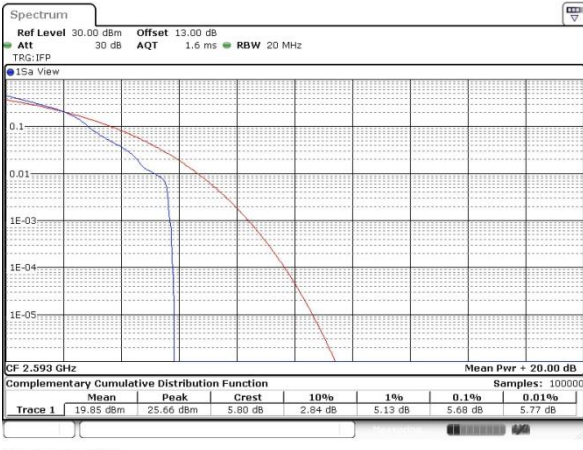
Date: 16.AUG.2015 10:36:06

Lowest Channel / Full RB



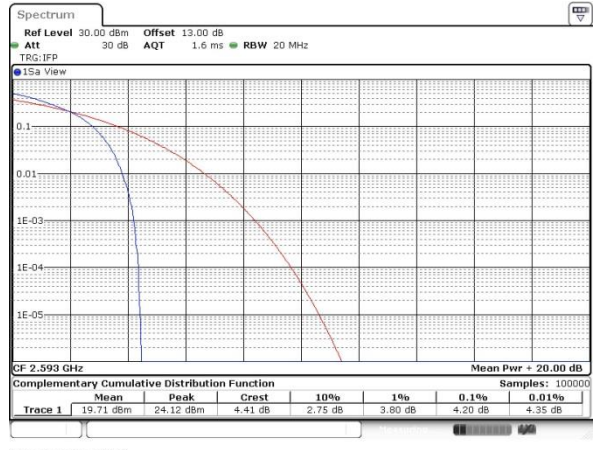
Date: 16.AUG.2015 10:36:20

Middle Channel / 1RB



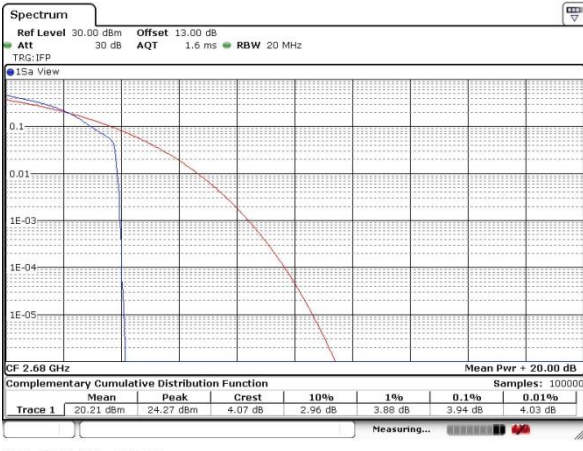
Date: 1 SEP 2015 16:10:51

Middle Channel / Full RB



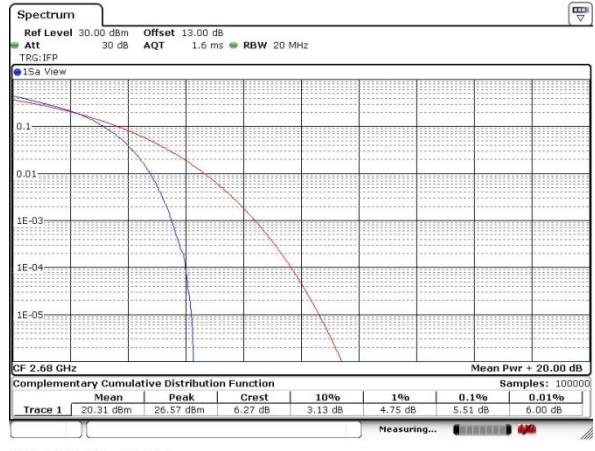
Date: 1 SEP 2015 16:11:41

Highest Channel / 1RB



Date: 16.AUG.2015 10:34:50

Highest Channel / Full RB



Date: 16.AUG.2015 10:34:35



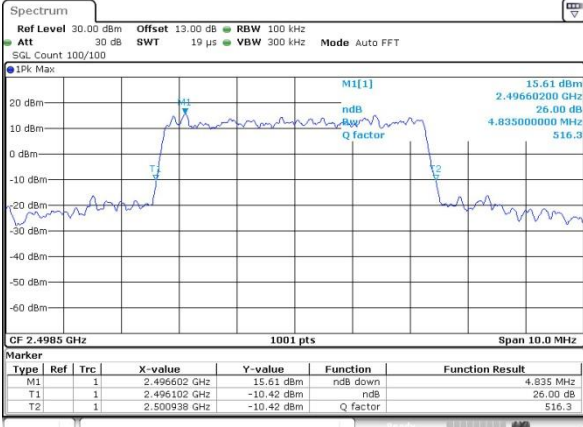
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.84	4.87	9.69	9.75	14.15	14.24	20.06	20.02
Middle CH	-	-	-	-	4.97	4.9	9.71	9.97	14.69	14.51	20.3	20.38
Highest CH	-	-	-	-	4.91	4.89	9.85	9.61	14.33	14.15	20.1	20.22



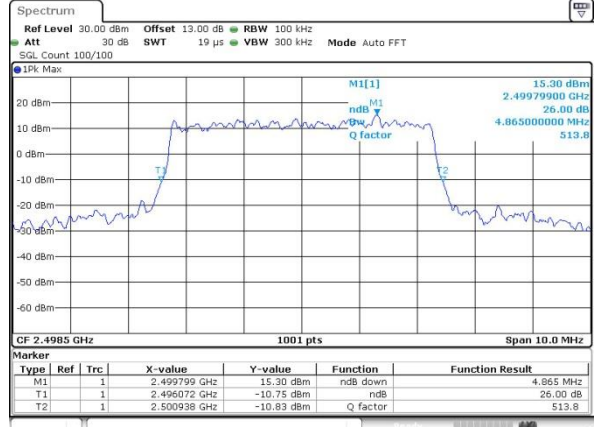
LTE Band 41

Lowest Channel / 5MHz / QPSK



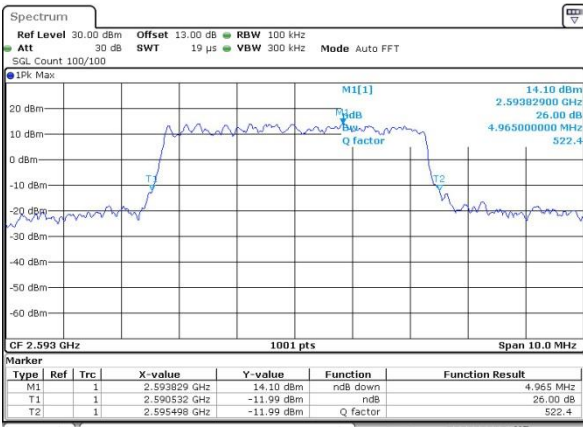
Date: 16.AUG.2015 10:19:07

Lowest Channel / 5MHz / 16QAM



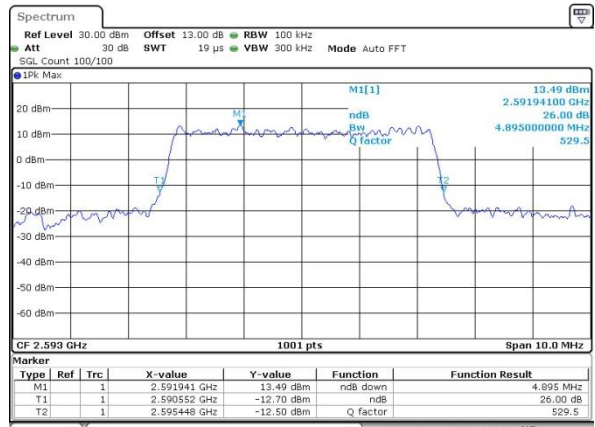
Date: 16.AUG.2015 10:19:18

Middle Channel / 5MHz / QPSK



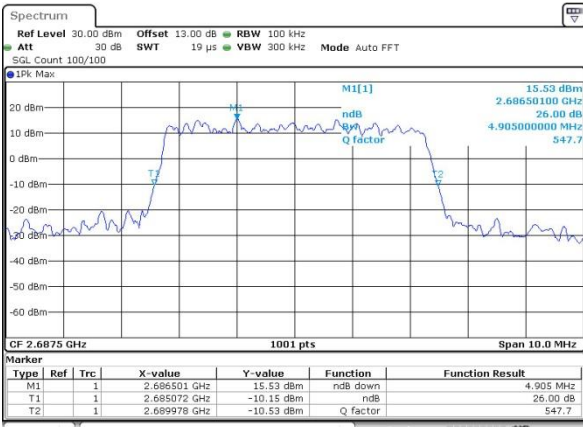
Date: 16.AUG.2015 10:19:53

Middle Channel / 5MHz / 16QAM



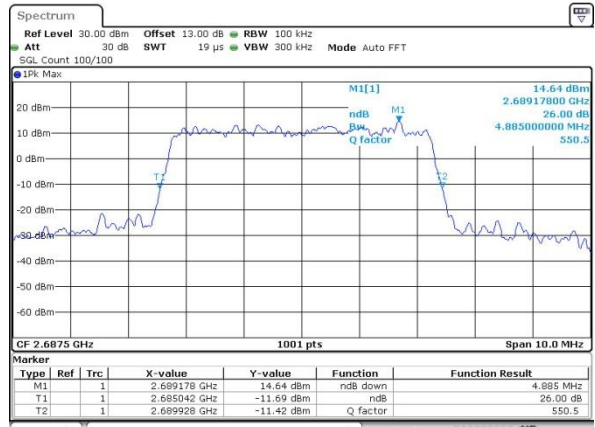
Date: 16.AUG.2015 10:20:05

Highest Channel / 5MHz / QPSK



Date: 16.AUG.2015 10:20:40

Highest Channel / 5MHz / 16QAM

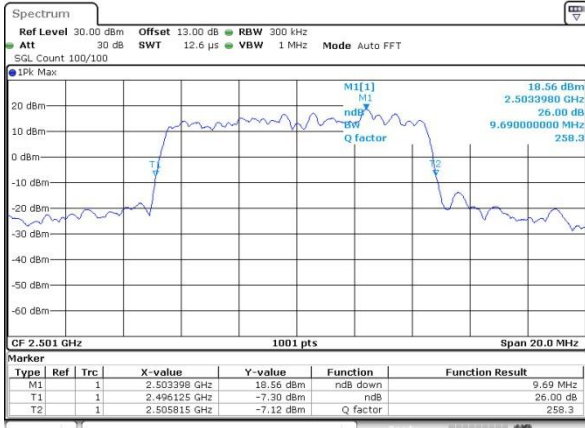


Date: 16.AUG.2015 10:20:52



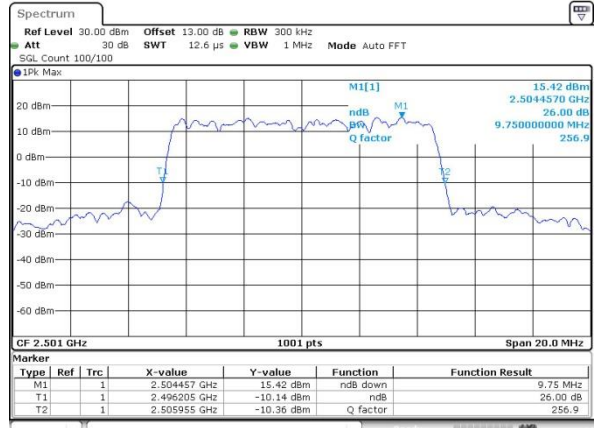
LTE Band 41

Lowest Channel / 10MHz / QPSK



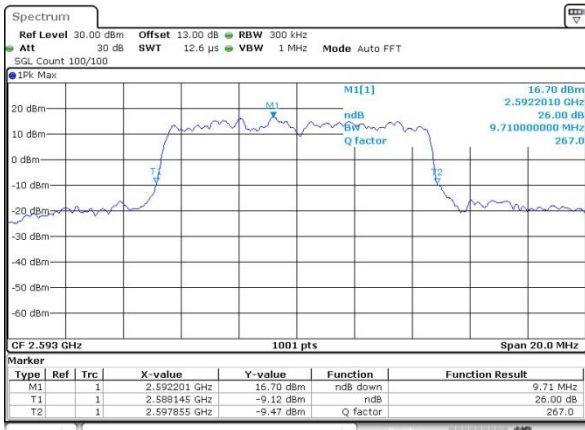
Date: 16.AUG.2015 10:21:27

Lowest Channel / 10MHz / 16QAM



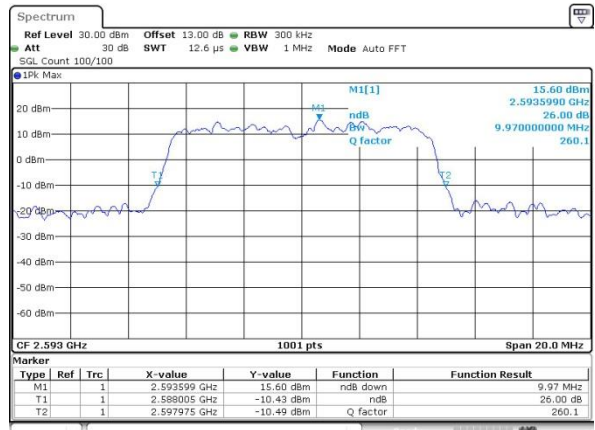
Date: 16.AUG.2015 10:21:38

Middle Channel / 10MHz / QPSK



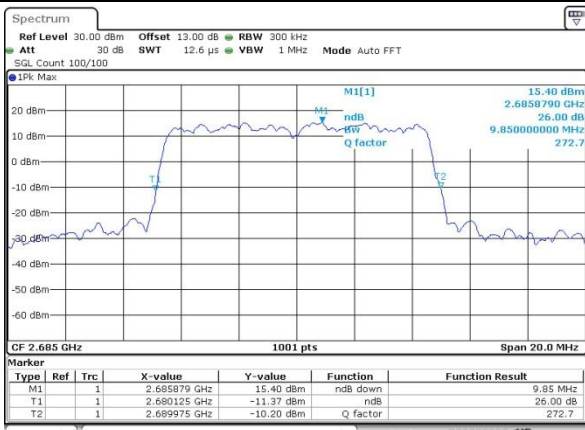
Date: 16.AUG.2015 10:22:13

Middle Channel / 10MHz / 16QAM



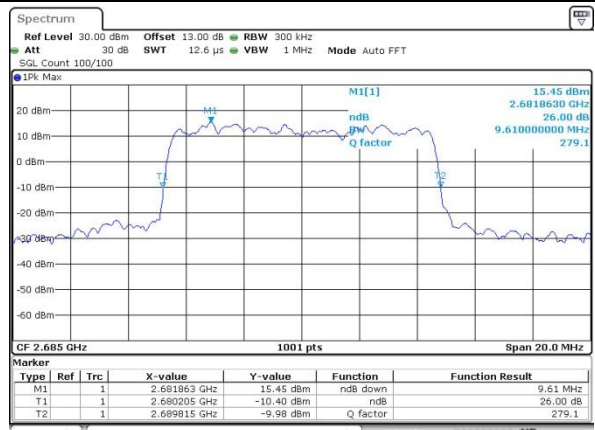
Date: 16.AUG.2015 10:22:25

Highest Channel / 10MHz / QPSK



Date: 16.AUG.2015 10:23:00

Highest Channel / 10MHz / 16QAM

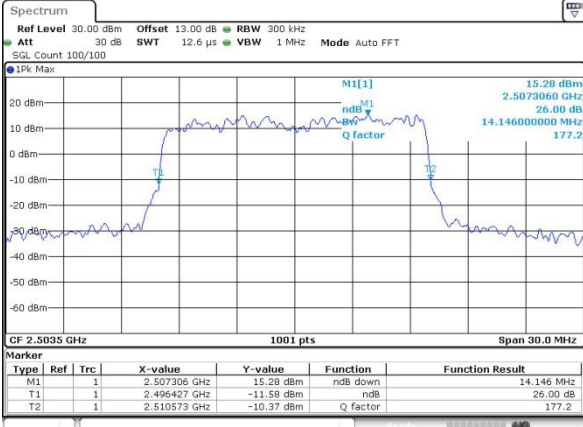


Date: 16.AUG.2015 10:23:12



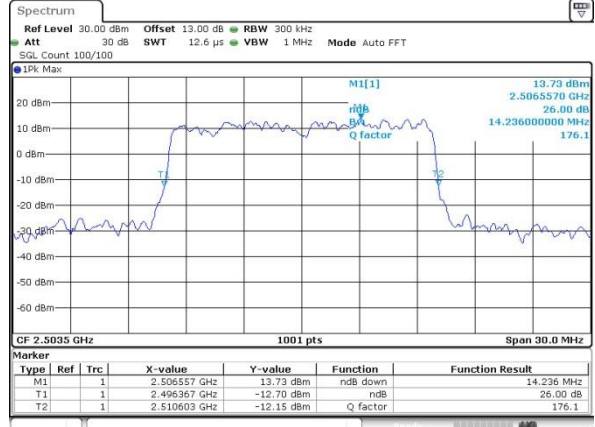
LTE Band 41

Lowest Channel / 15MHz / QPSK



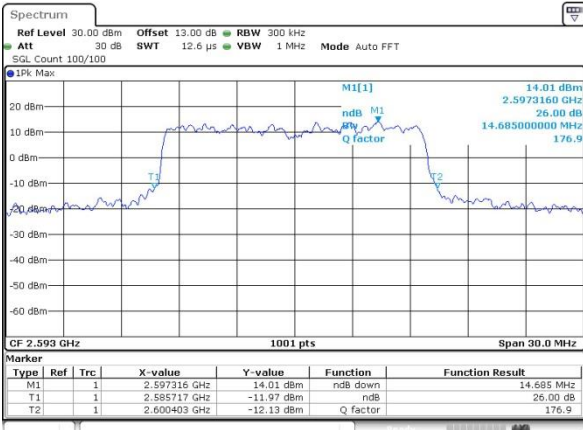
Date: 16.AUG.2015 10:23:47

Lowest Channel / 15MHz / 16QAM



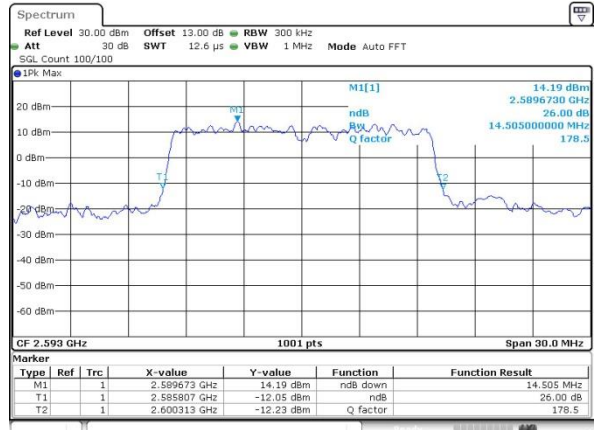
Date: 16.AUG.2015 10:23:58

Middle Channel / 15MHz / QPSK



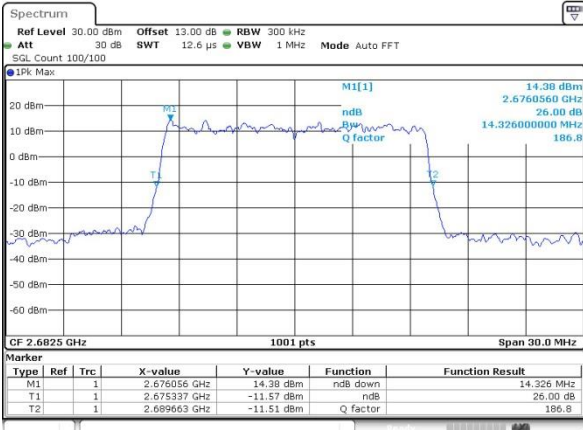
Date: 16.AUG.2015 10:24:03

Middle Channel / 15MHz / 16QAM



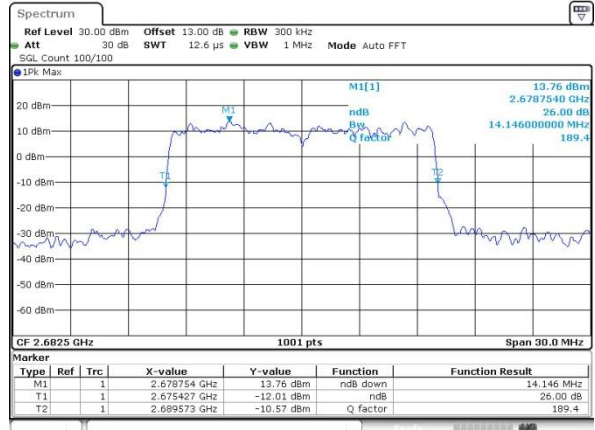
Date: 16.AUG.2015 10:24:05

Highest Channel / 15MHz / QPSK



Date: 16.AUG.2015 10:25:21

Highest Channel / 15MHz / 16QAM

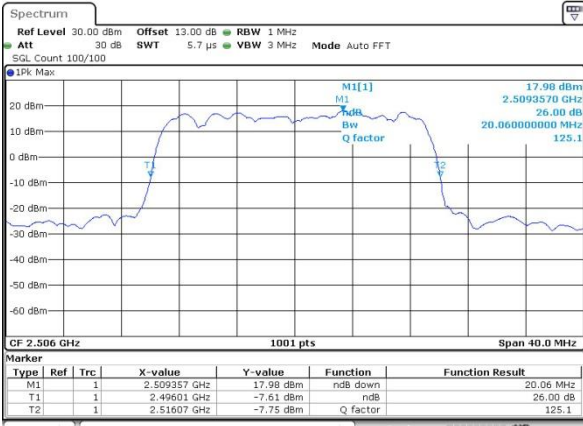


Date: 16.AUG.2015 10:25:32



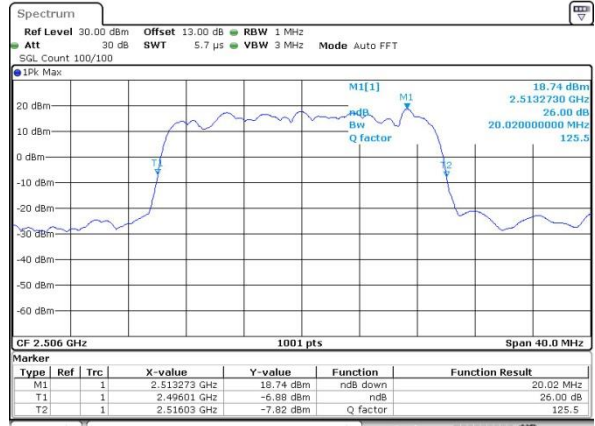
LTE Band 41

Lowest Channel / 20MHz / QPSK



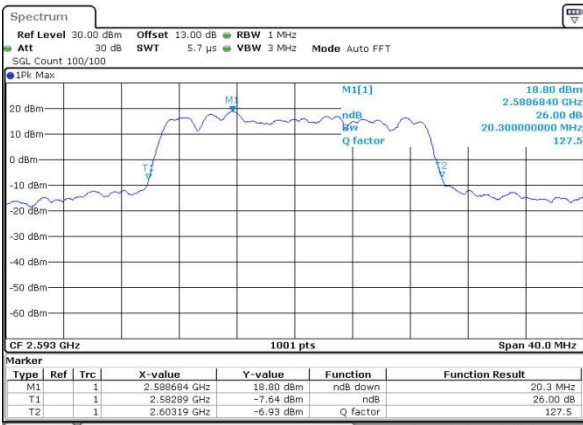
Date: 16.AUG.2015 10:26:07

Lowest Channel / 20MHz / 16QAM



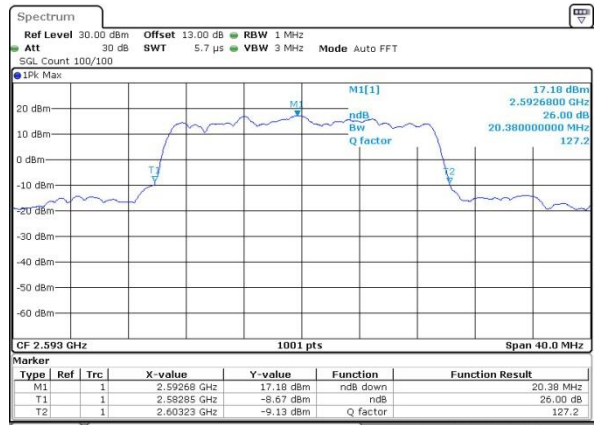
Date: 16.AUG.2015 10:26:19

Middle Channel / 20MHz / QPSK



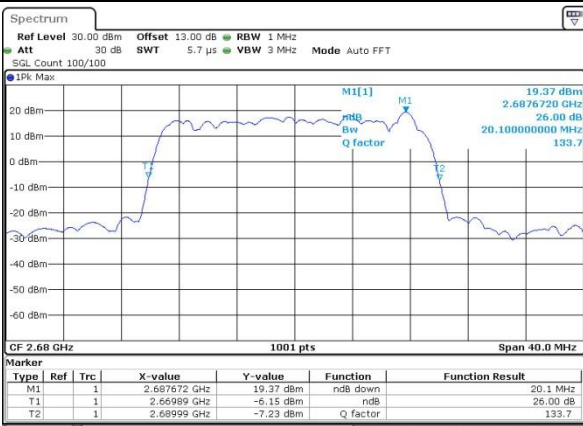
Date: 16.AUG.2015 10:26:54

Middle Channel / 20MHz / 16QAM



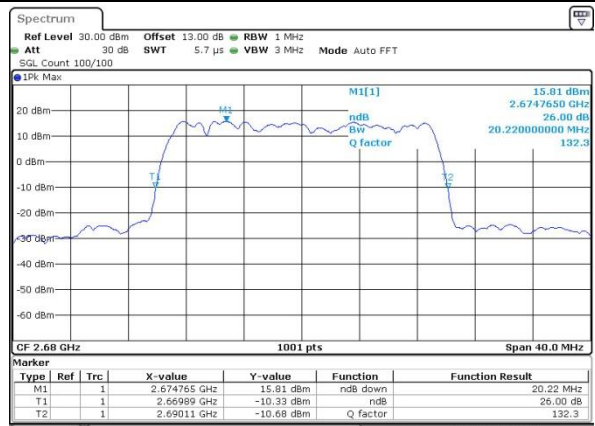
Date: 16.AUG.2015 10:27:06

Highest Channel / 20MHz / QPSK



Date: 16.AUG.2015 10:27:41

Highest Channel / 20MHz / 16QAM



Date: 16.AUG.2015 10:27:52



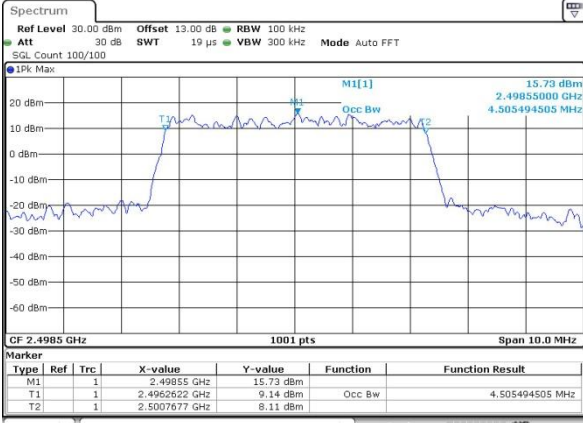
Occupied Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.51	4.48	9.01	9.05	13.37	13.37	18.22	17.9
Middle CH	-	-	-	-	4.51	4.49	9.05	9.03	13.46	13.49	18.22	18.34
Highest CH	-	-	-	-	4.46	4.5	9.01	8.95	13.46	13.49	18.1	18.54



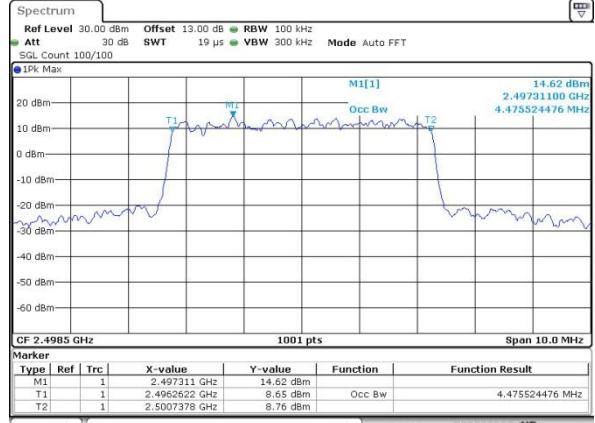
LTE Band 41

Lowest Channel / 5MHz / QPSK



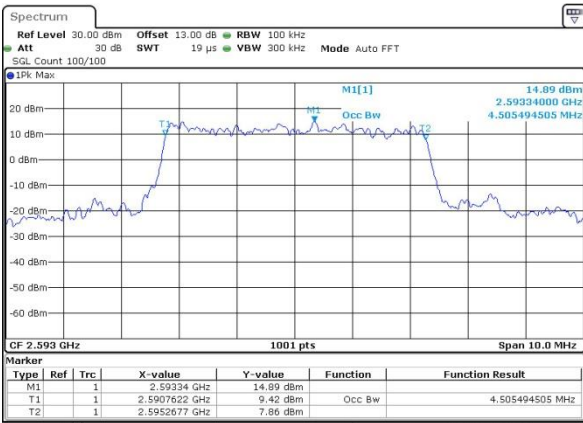
Date: 16.AUG.2015 10:18:43

Lowest Channel / 5MHz / 16QAM



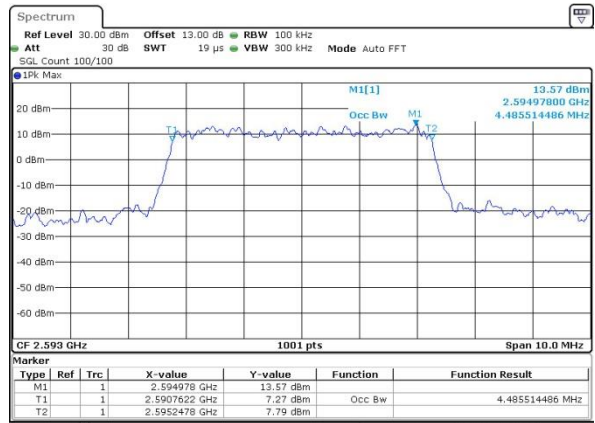
Date: 16.AUG.2015 10:18:55

Middle Channel / 5MHz / QPSK



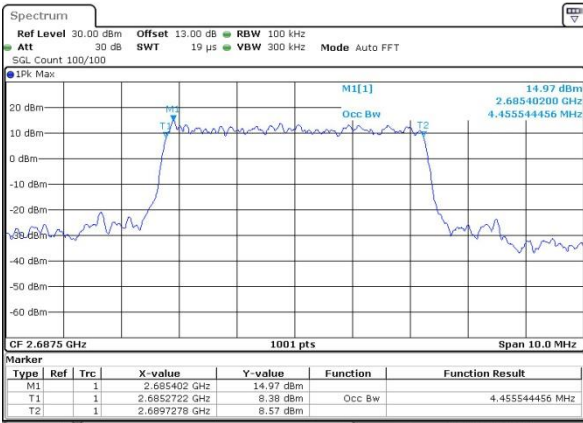
Date: 16.AUG.2015 10:19:30

Middle Channel / 5MHz / 16QAM



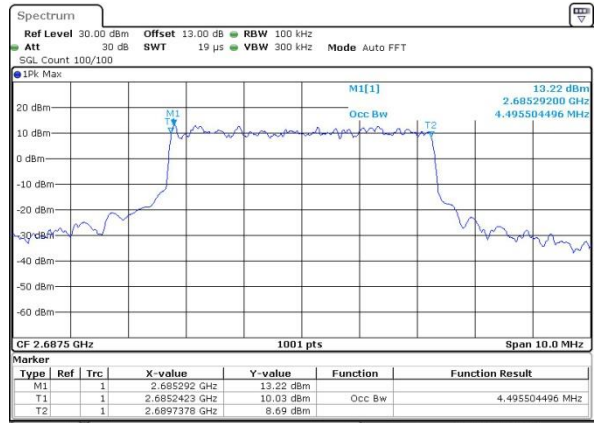
Date: 16.AUG.2015 10:19:42

Highest Channel / 5MHz / QPSK



Date: 16.AUG.2015 10:20:17

Highest Channel / 5MHz / 16QAM

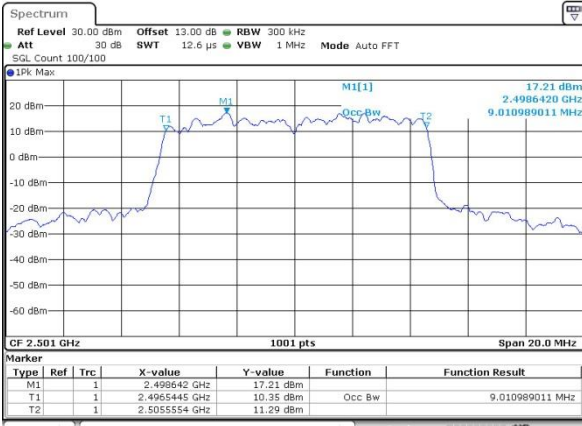


Date: 16.AUG.2015 10:20:28



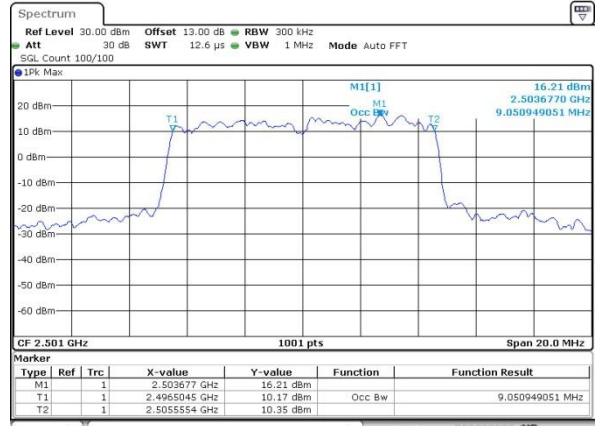
LTE Band 41

Lowest Channel / 10MHz / QPSK



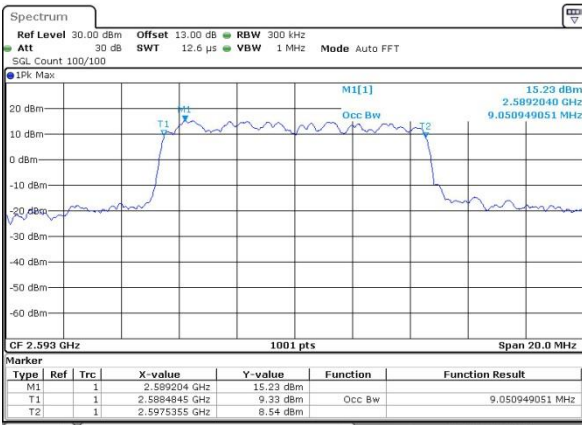
Date: 16.AUG.2015 10:21:03

Lowest Channel / 10MHz / 16QAM



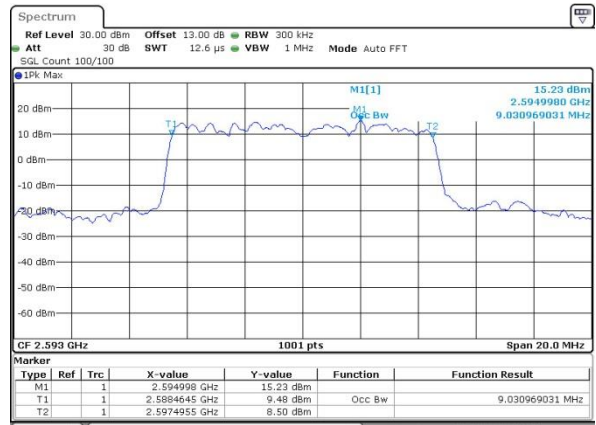
Date: 16.AUG.2015 10:21:15

Middle Channel / 10MHz / QPSK



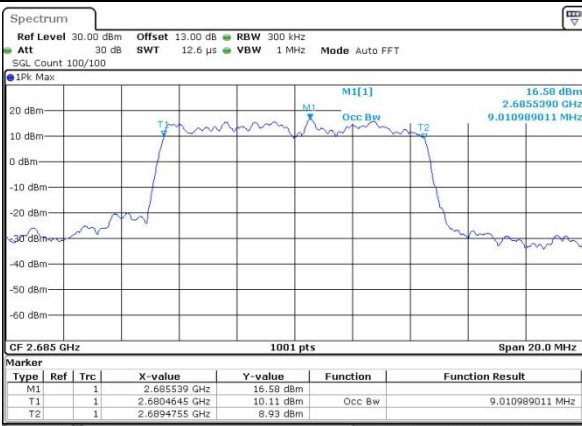
Date: 16.AUG.2015 10:21:50

Middle Channel / 10MHz / 16QAM



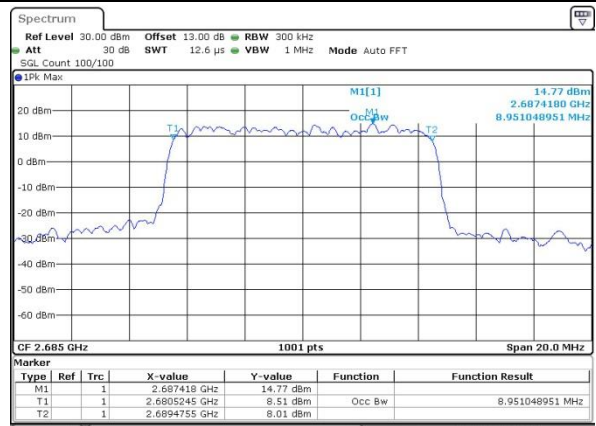
Date: 16.AUG.2015 10:22:02

Highest Channel / 10MHz / QPSK



Date: 16.AUG.2015 10:22:37

Highest Channel / 10MHz / 16QAM

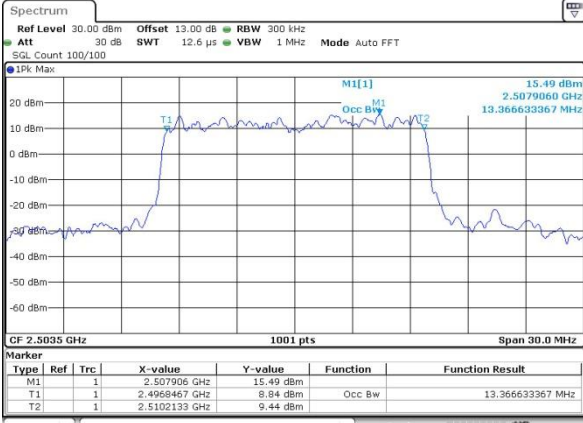


Date: 16.AUG.2015 10:22:48



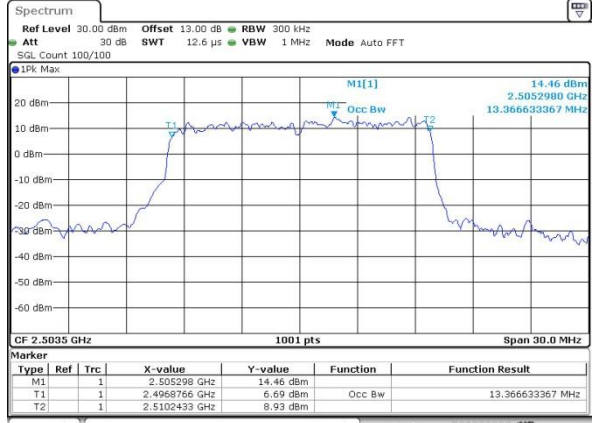
LTE Band 41

Lowest Channel / 15MHz / QPSK



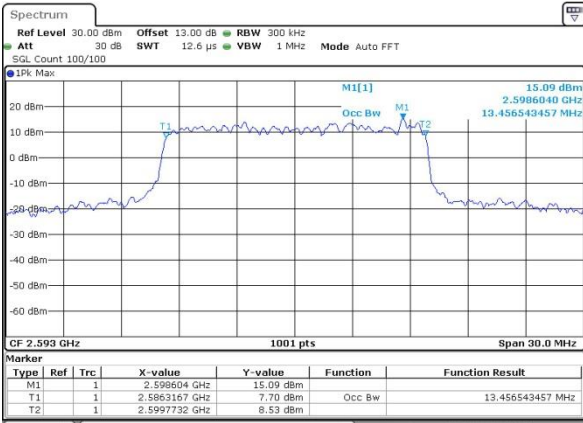
Date: 16.AUG.2015 10:23:23

Lowest Channel / 15MHz / 16QAM



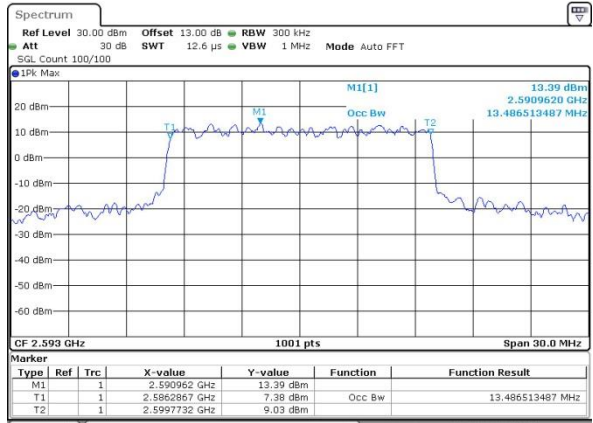
Date: 16.AUG.2015 10:23:35

Middle Channel / 15MHz / QPSK



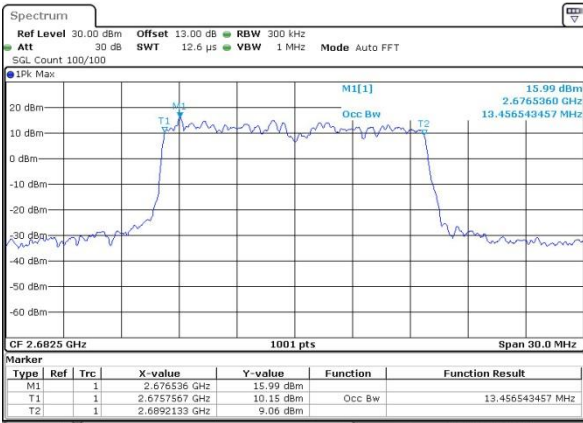
Date: 16.AUG.2015 10:24:10

Middle Channel / 15MHz / 16QAM



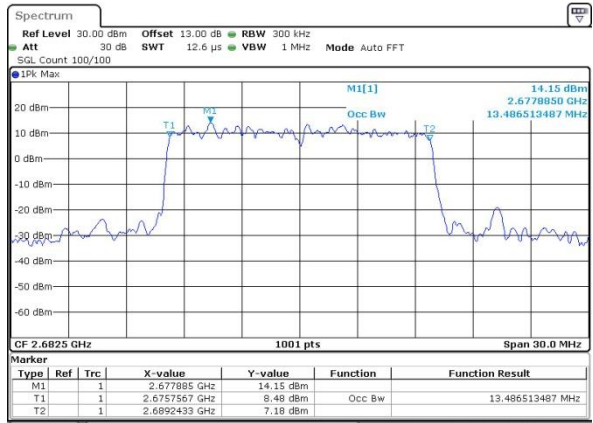
Date: 16.AUG.2015 10:24:22

Highest Channel / 15MHz / QPSK



Date: 16.AUG.2015 10:24:57

Highest Channel / 15MHz / 16QAM

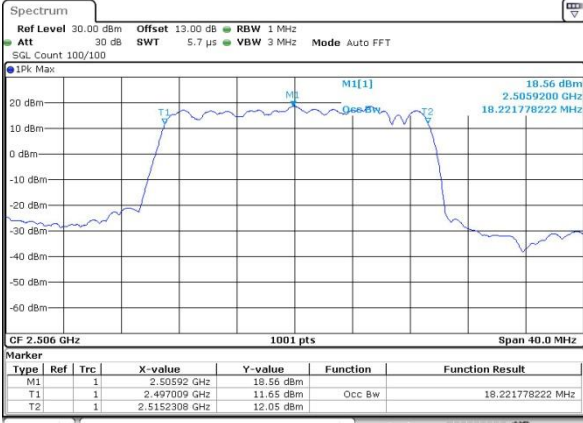


Date: 16.AUG.2015 10:25:09



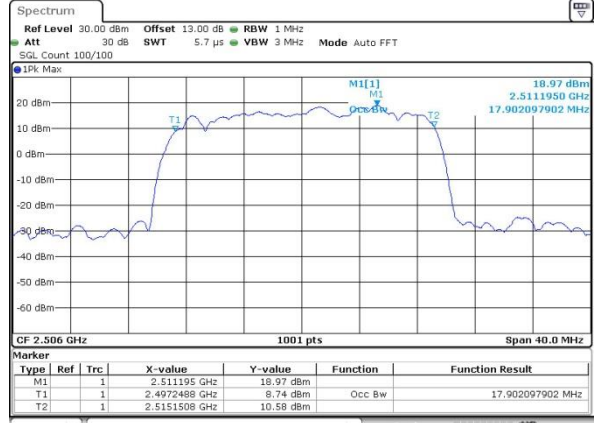
LTE Band 41

Lowest Channel / 20MHz / QPSK



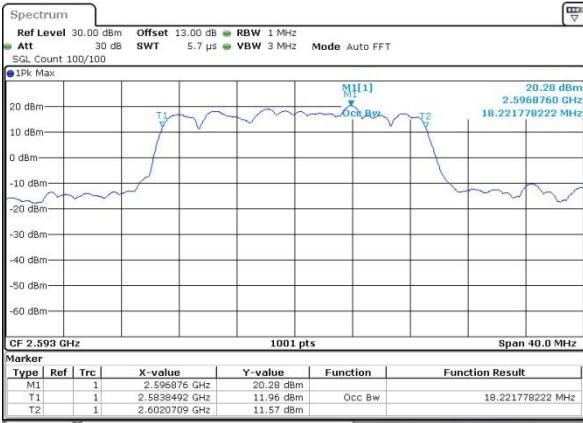
Date: 16.AUG.2015 10:25:44

Lowest Channel / 20MHz / 16QAM



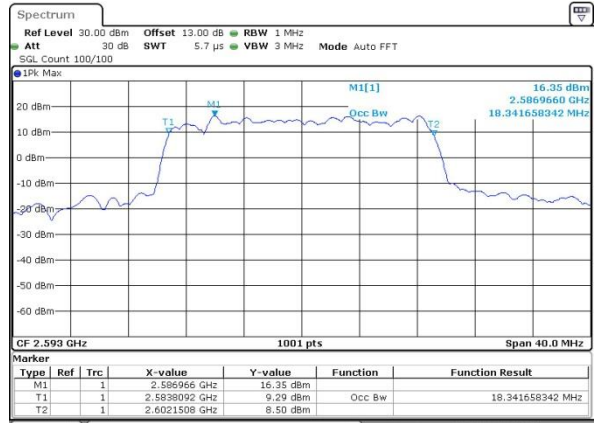
Date: 16.AUG.2015 10:25:56

Middle Channel / 20MHz / QPSK



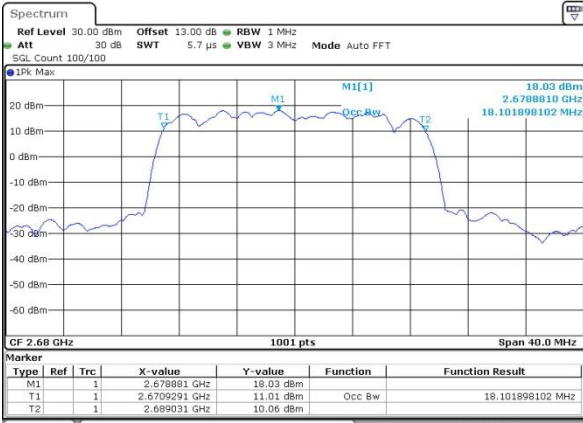
Date: 16.AUG.2015 13:37:35

Middle Channel / 20MHz / 16QAM



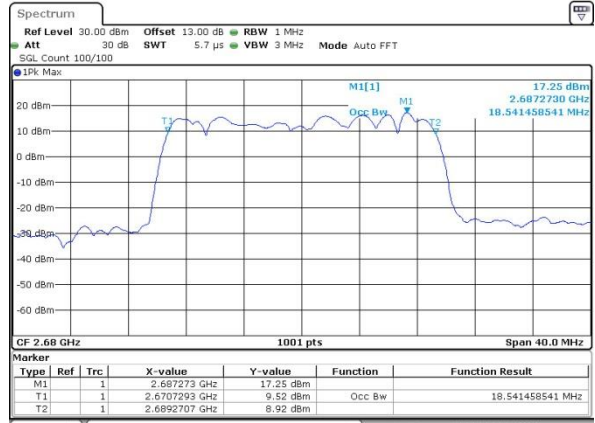
Date: 16.AUG.2015 10:26:42

Highest Channel / 20MHz / QPSK



Date: 16.AUG.2015 10:27:17

Highest Channel / 20MHz / 16QAM



Date: 16.AUG.2015 10:27:29



Conducted Band Edge

