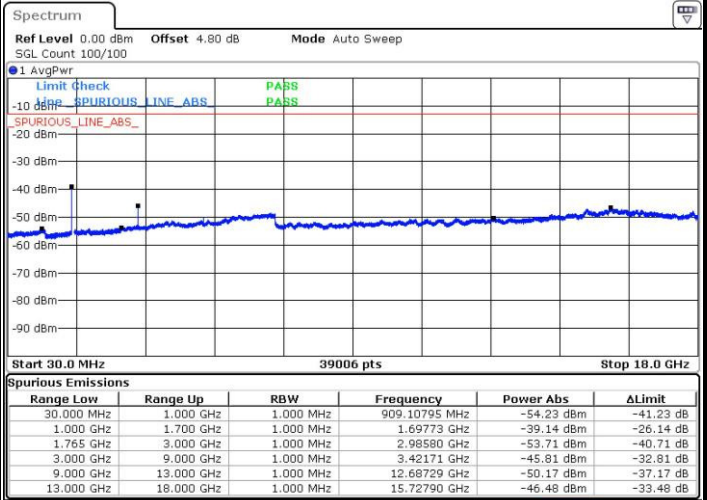
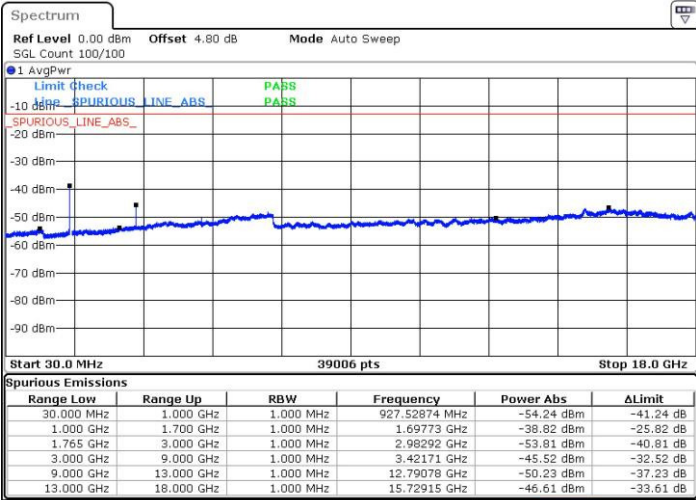




LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

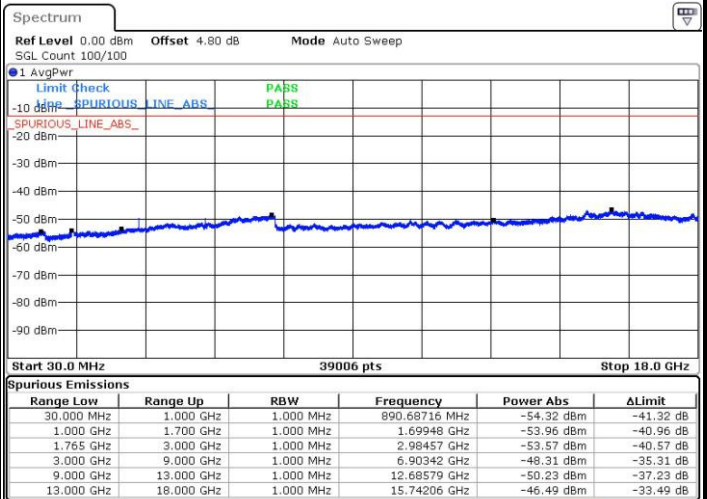
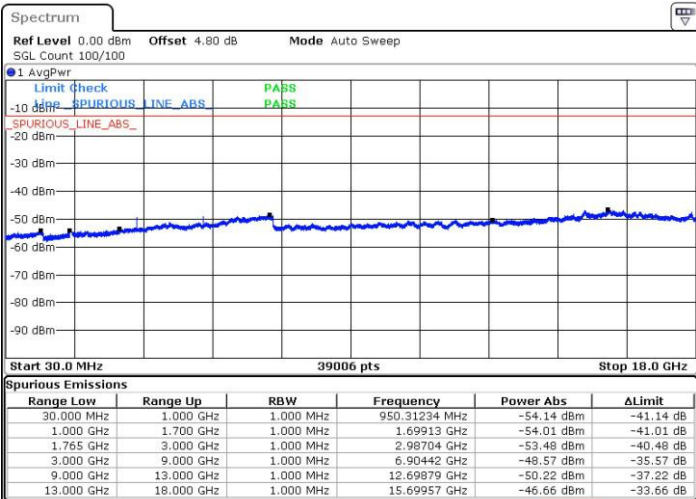


Date: 4 JUN 2016 12:46:17

Date: 4 JUN 2016 12:47:13

Middle Channel / QPSK

Middle Channel / 16QAM



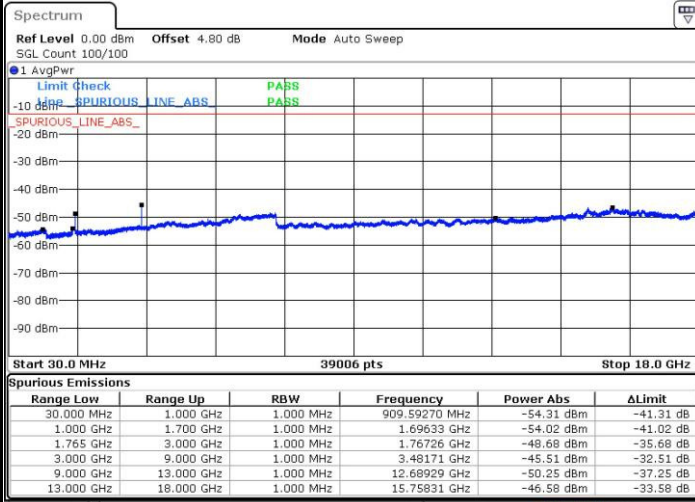
Date: 4 JUN 2016 12:48:50

Date: 4 JUN 2016 12:49:46



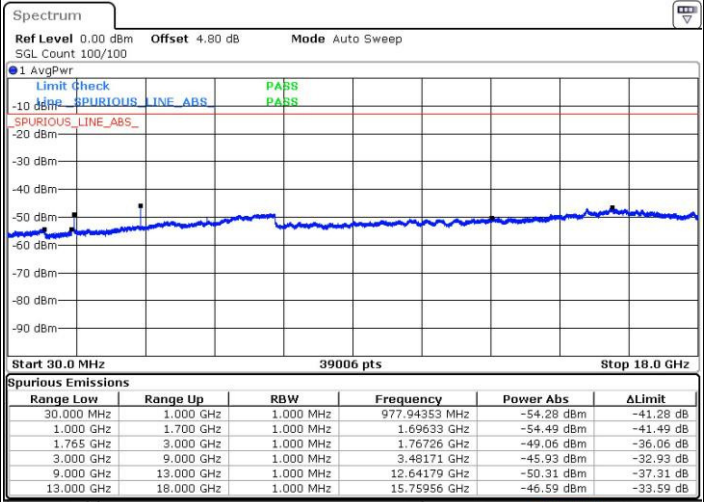
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 4 JUN 2016 12:55:55

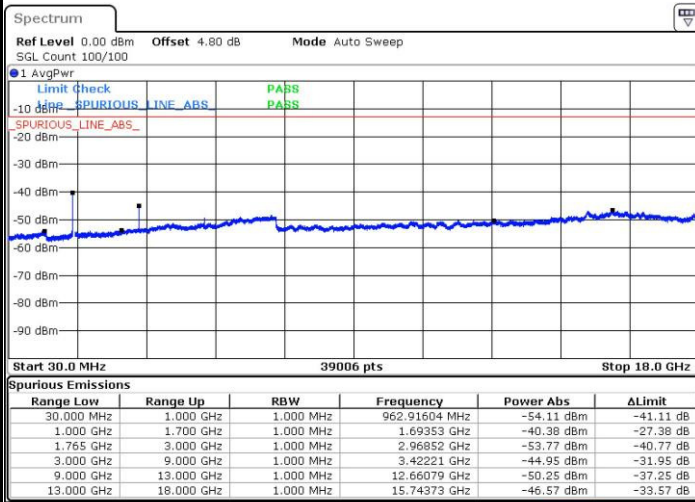
Highest Channel / 16QAM



Date: 4 JUN 2016 12:56:50

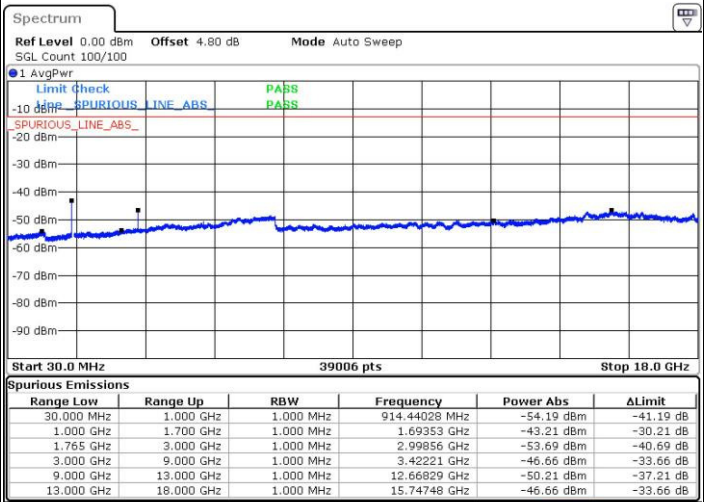
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 4 JUN 2016 13:03:00

Lowest Channel / 16QAM



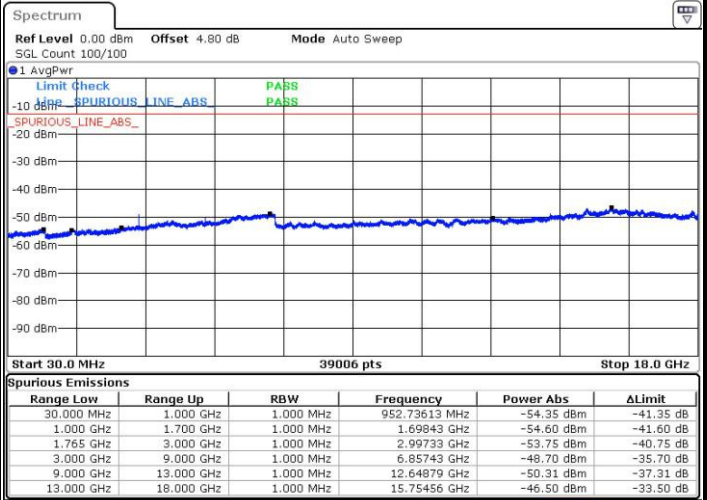
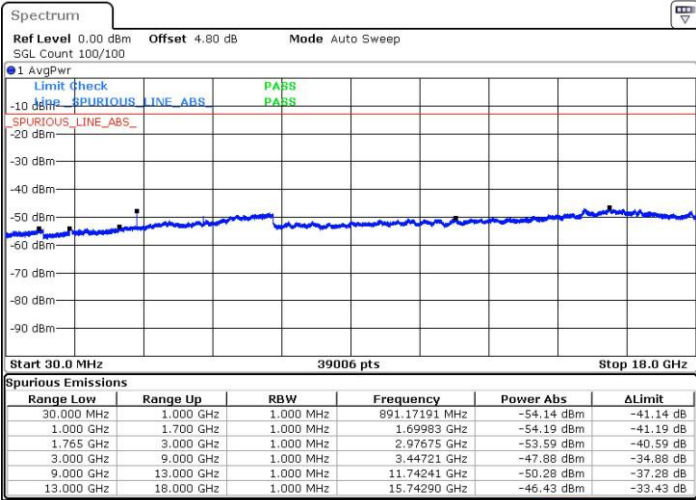
Date: 4 JUN 2016 13:03:55



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

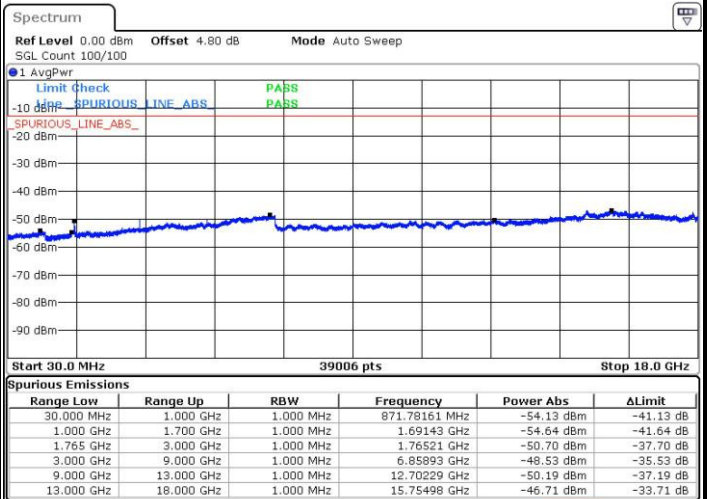
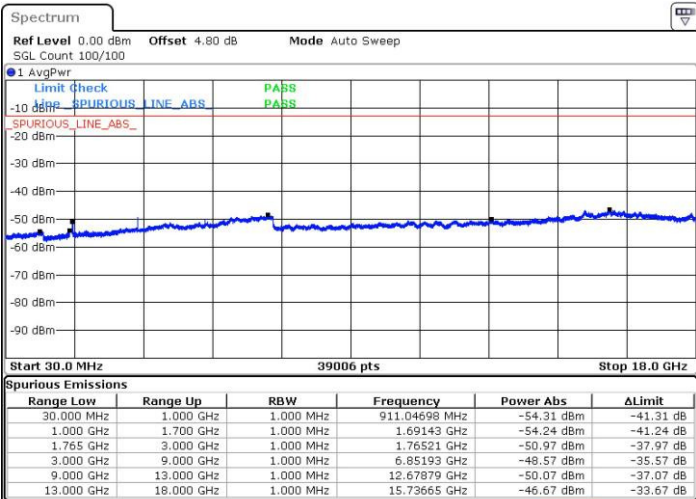


Date: 4 JUN 2016 13:05:32

Date: 4 JUN 2016 13:06:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 JUN 2016 13:12:37

Date: 4 JUN 2016 13:13:33



**Frequency Stability**

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0010	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## LTE Band 7

### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.86	4.75	4.67	5.68	PASS
Middle CH	4.00	4.70	4.55	5.65	
Highest CH	4.03	4.72	4.67	5.68	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



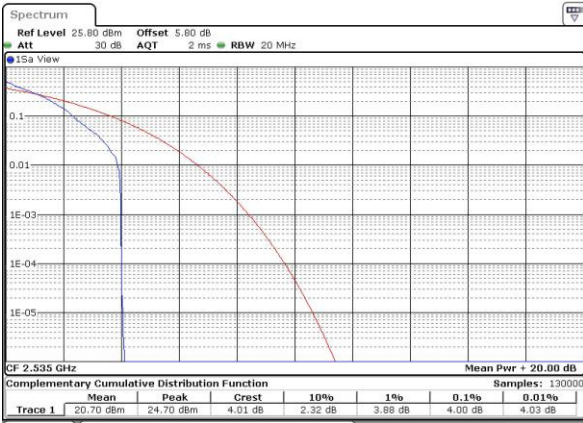
Date: 6 JUN 2016 10:28:33

Lowest Channel / Full RB



Date: 6 JUN 2016 10:28:43

Middle Channel / 1RB



Date: 6 JUN 2016 10:29:29

Middle Channel / Full RB



Date: 6 JUN 2016 10:29:18

Highest Channel / 1RB



Date: 6 JUN 2016 10:29:58

Highest Channel / Full RB

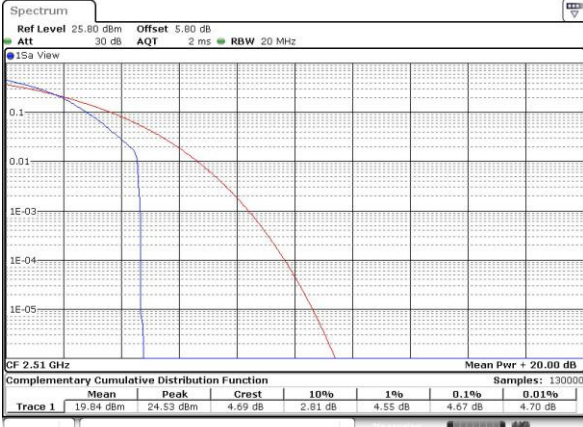


Date: 6 JUN 2016 10:30:07



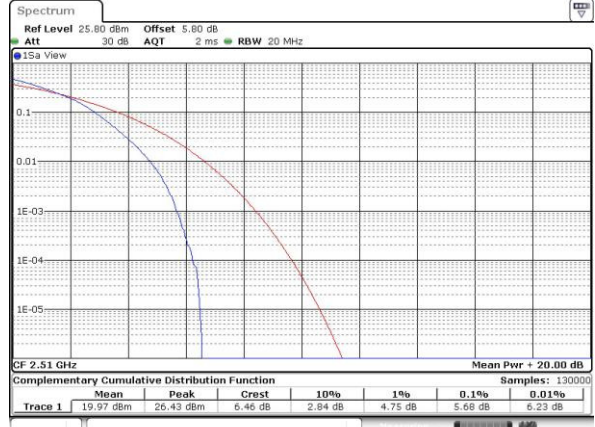
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



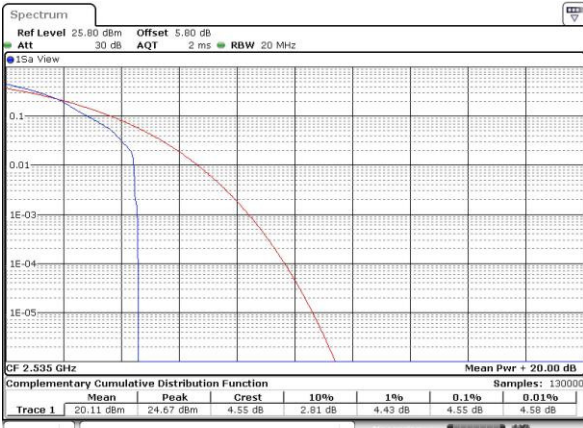
Date: 6 JUN 2016 10:28:22

Lowest Channel / Full RB



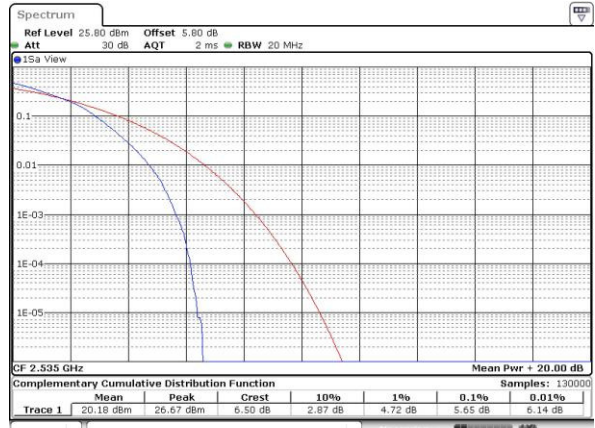
Date: 6 JUN 2016 10:28:52

Middle Channel / 1RB



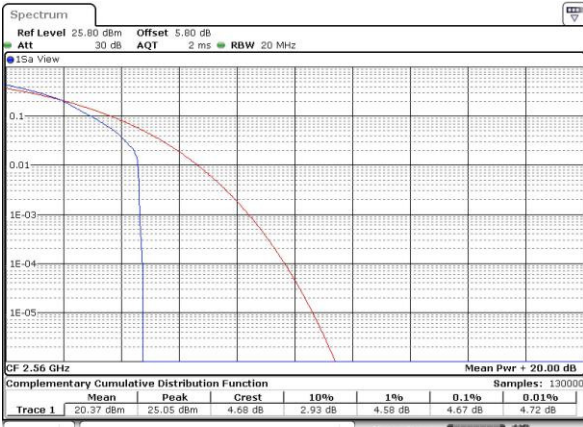
Date: 6 JUN 2016 10:29:39

Middle Channel / Full RB



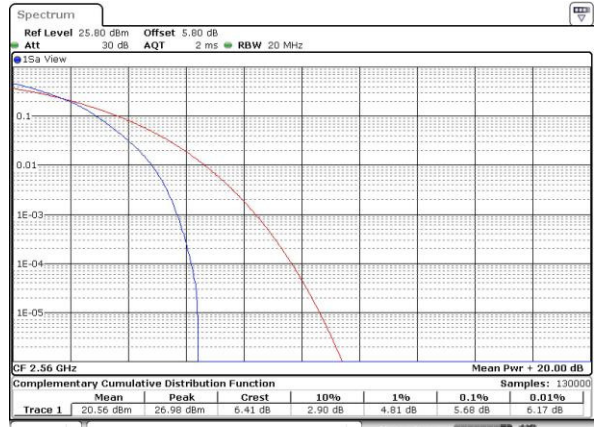
Date: 6 JUN 2016 10:29:09

Highest Channel / 1RB



Date: 6 JUN 2016 10:29:48

Highest Channel / Full RB



Date: 6 JUN 2016 10:30:17



**26dB Bandwidth**

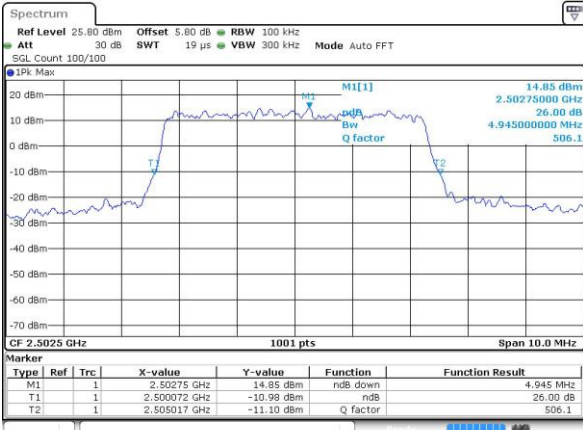
Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.945	5.005	9.890	9.730	14.535	14.625	20.180	20.260
Middle CH	-	-	-	-	4.875	4.945	10.090	9.870	14.386	14.326	20.180	20.260
Highest CH	-	-	-	-	4.855	4.895	9.970	9.830	14.296	14.356	20.140	20.060





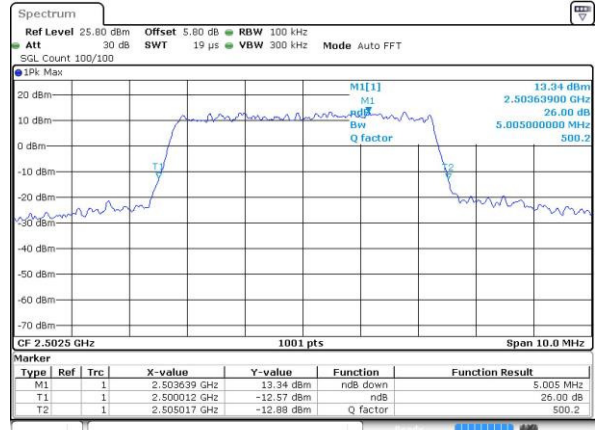
LTE Band 7

Lowest Channel / 5MHz / QPSK



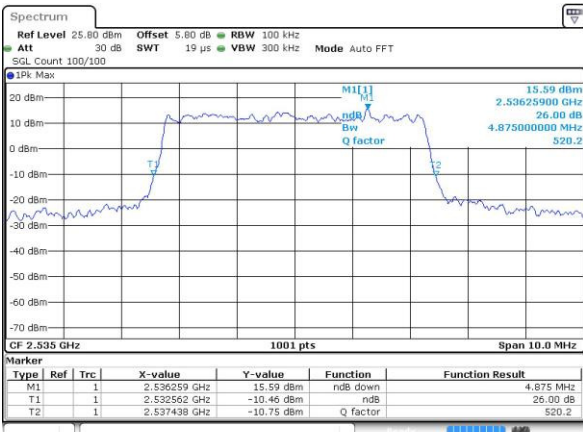
Date: 6 JUN 2016 09:21:46

Lowest Channel / 5MHz / 16QAM



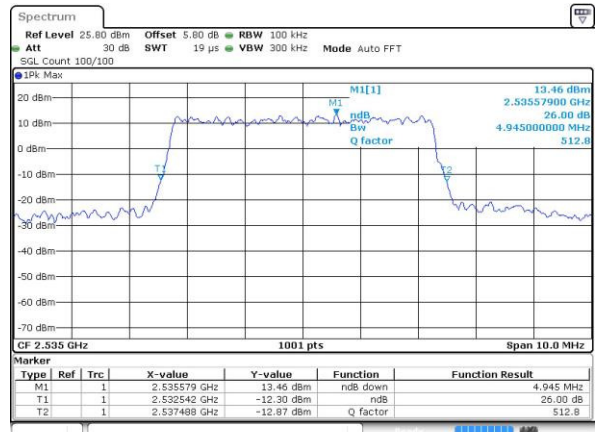
Date: 6 JUN 2016 09:22:07

Middle Channel / 5MHz / QPSK



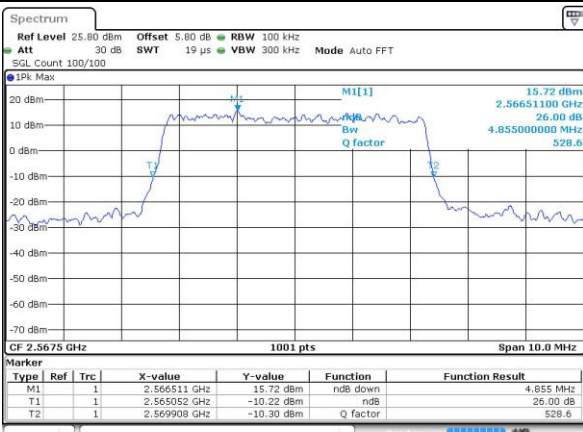
Date: 6 JUN 2016 09:22:49

Middle Channel / 5MHz / 16QAM



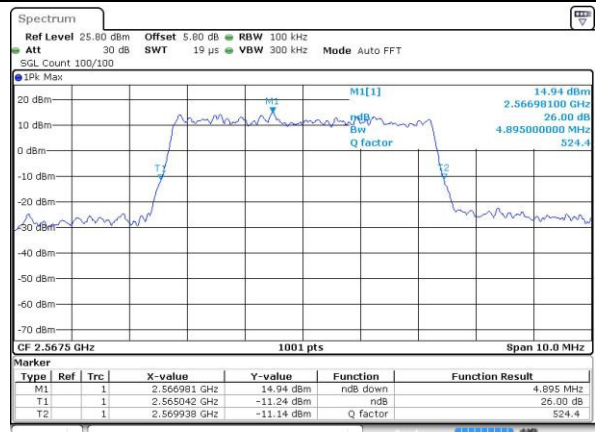
Date: 6 JUN 2016 09:22:28

Highest Channel / 5MHz / QPSK



Date: 6 JUN 2016 09:23:10

Highest Channel / 5MHz / 16QAM

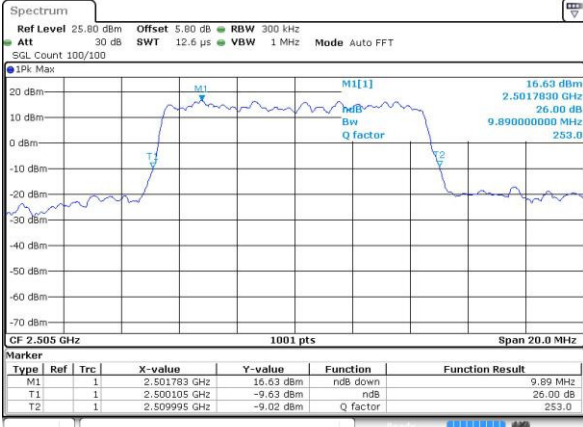


Date: 6 JUN 2016 09:23:31



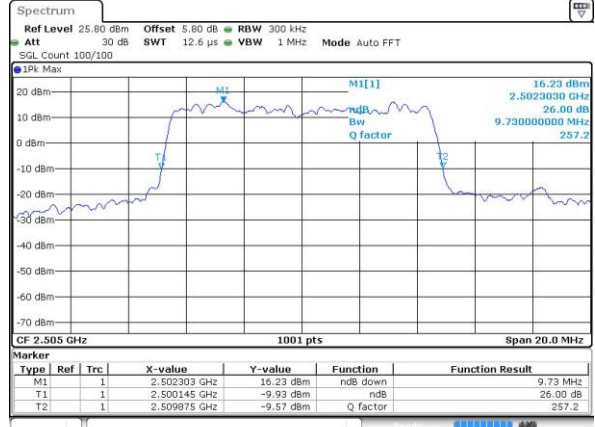
LTE Band 7

Lowest Channel / 10MHz / QPSK



Date: 6 JUN 2016 09:38:27

Lowest Channel / 10MHz / 16QAM



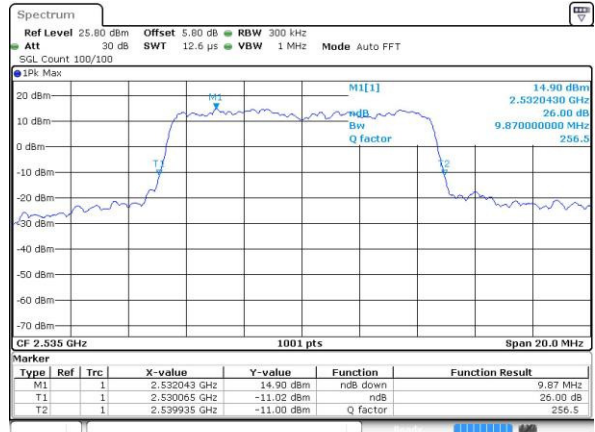
Date: 6 JUN 2016 09:38:48

Middle Channel / 10MHz / QPSK



Date: 6 JUN 2016 09:39:30

Middle Channel / 10MHz / 16QAM



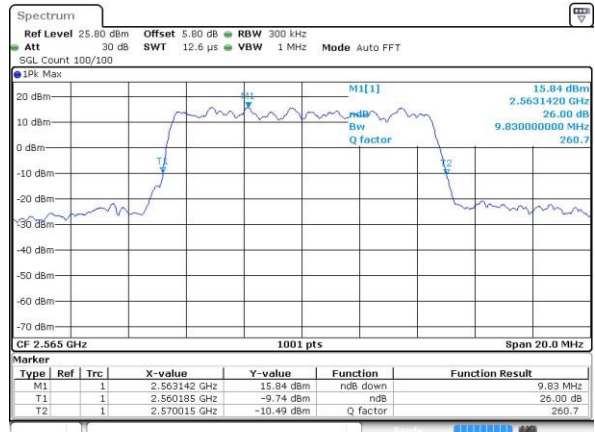
Date: 6 JUN 2016 09:39:09

Highest Channel / 10MHz / QPSK



Date: 6 JUN 2016 09:39:51

Highest Channel / 10MHz / 16QAM

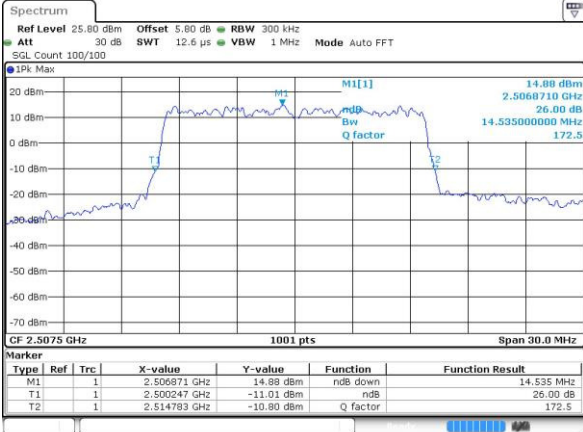


Date: 6 JUN 2016 09:40:12



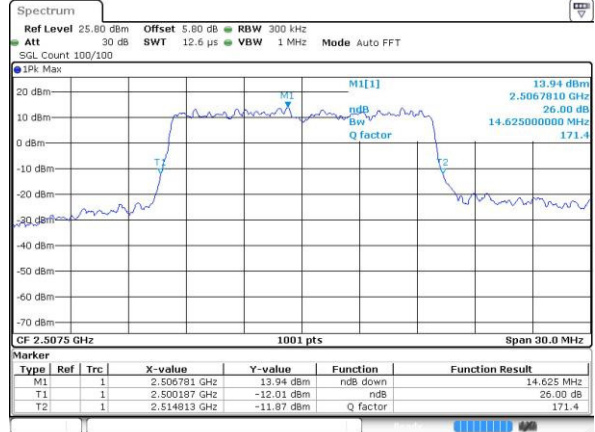
LTE Band 7

Lowest Channel / 15MHz / QPSK



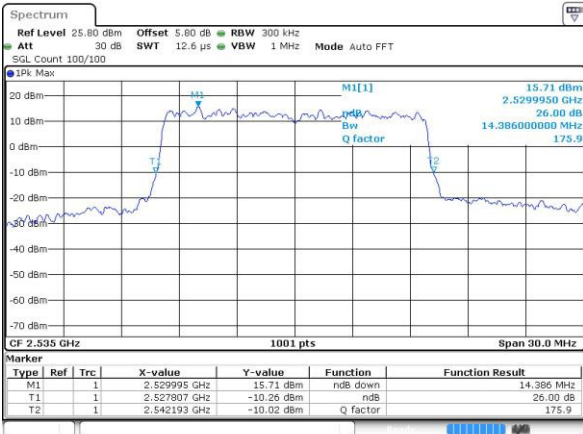
Date: 6 JUN 2016 09:55:29

Lowest Channel / 15MHz / 16QAM



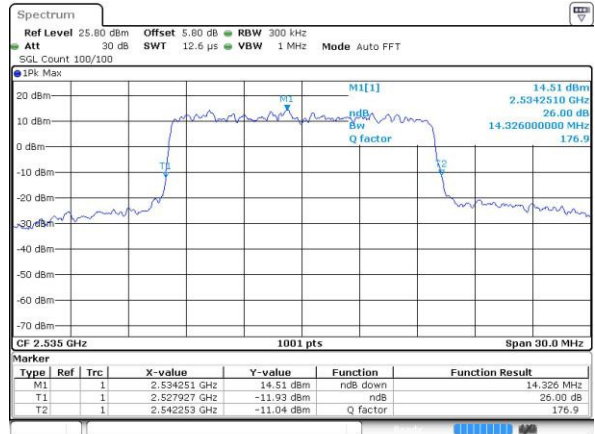
Date: 6 JUN 2016 10:35:12

Middle Channel / 15MHz / QPSK



Date: 6 JUN 2016 09:55:50

Middle Channel / 15MHz / 16QAM



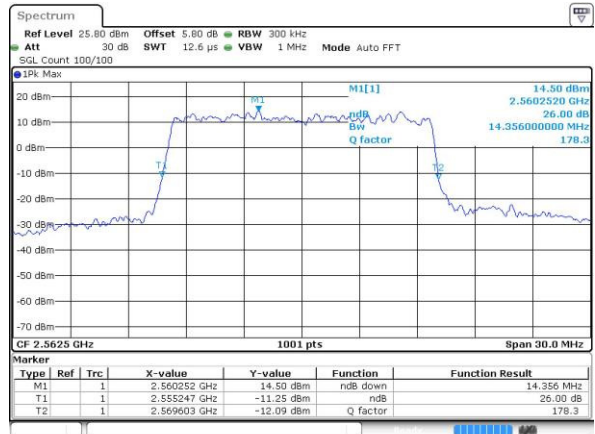
Date: 6 JUN 2016 09:56:11

Highest Channel / 15MHz / QPSK



Date: 6 JUN 2016 09:56:53

Highest Channel / 15MHz / 16QAM

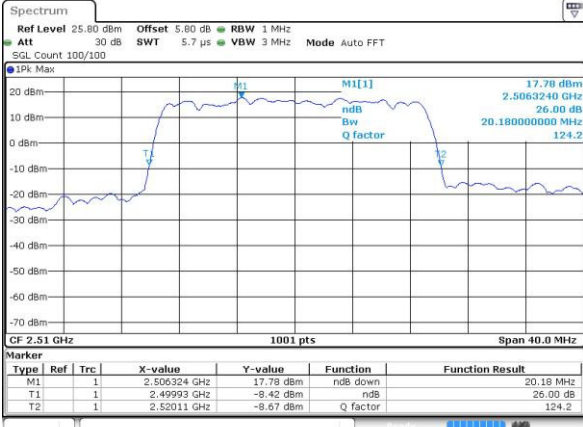


Date: 6 JUN 2016 09:56:32



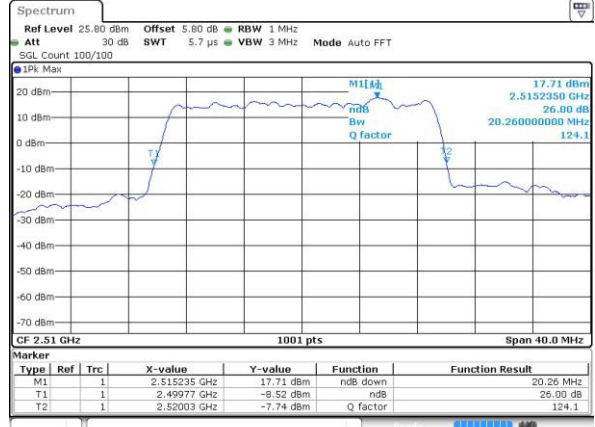
LTE Band 7

Lowest Channel / 20MHz / QPSK



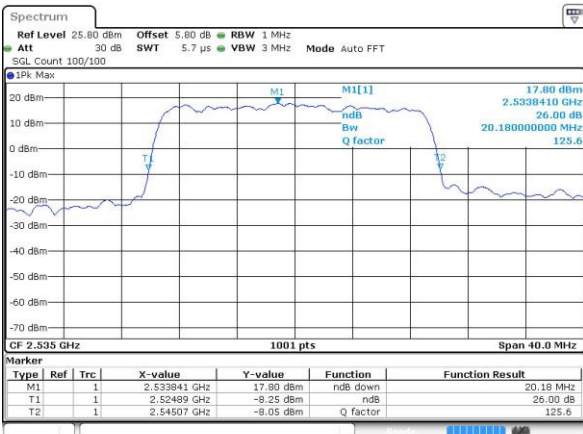
Date: 6 JUN 2016 10:12:10

Lowest Channel / 20MHz / 16QAM



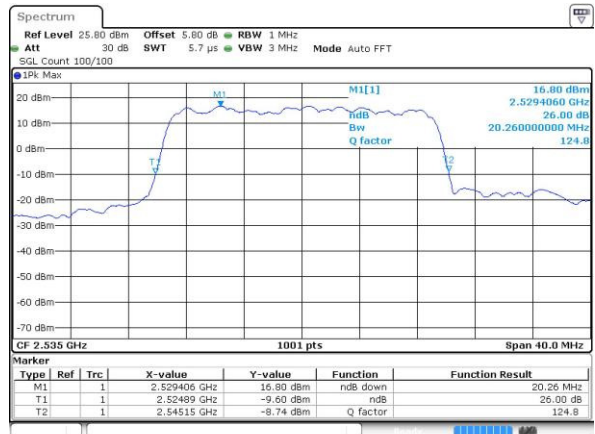
Date: 6 JUN 2016 10:11:49

Middle Channel / 20MHz / QPSK



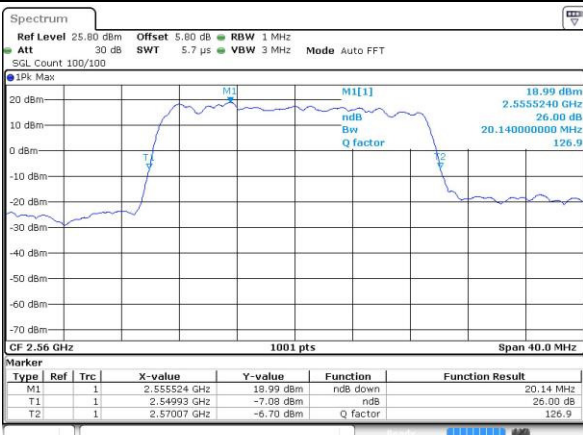
Date: 6 JUN 2016 10:12:31

Middle Channel / 20MHz / 16QAM



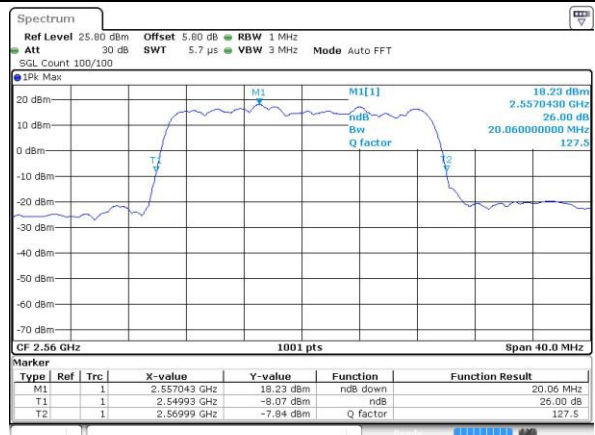
Date: 6 JUN 2016 10:12:52

Highest Channel / 20MHz / QPSK



Date: 6 JUN 2016 10:33:58

Highest Channel / 20MHz / 16QAM



Date: 6 JUN 2016 10:13:13



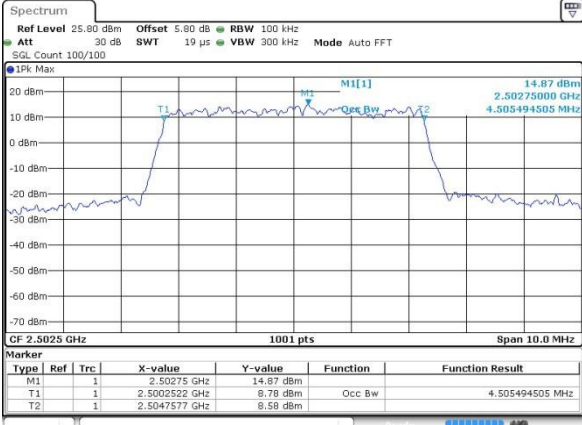
### Occupied Bandwidth

Mode	LTE Band 7 : 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	4.50	9.07	9.05	13.40	13.46	18.30	18.42
Middle CH	-	-	-	-	4.51	4.51	9.07	9.07	13.46	13.52	18.38	18.22
Highest CH	-	-	-	-	4.50	4.53	9.05	9.03	13.43	13.46	18.26	18.46



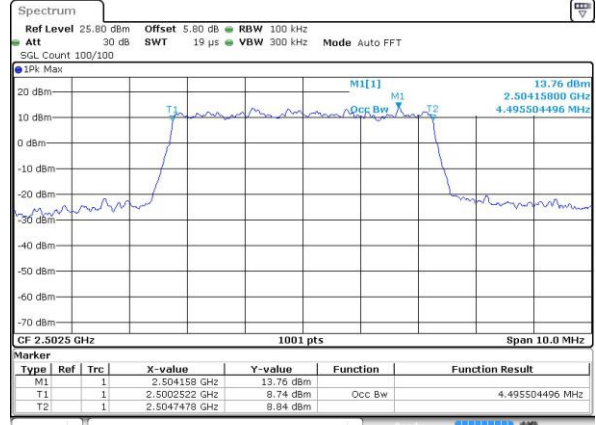
LTE Band 7

Lowest Channel / 5MHz / QPSK



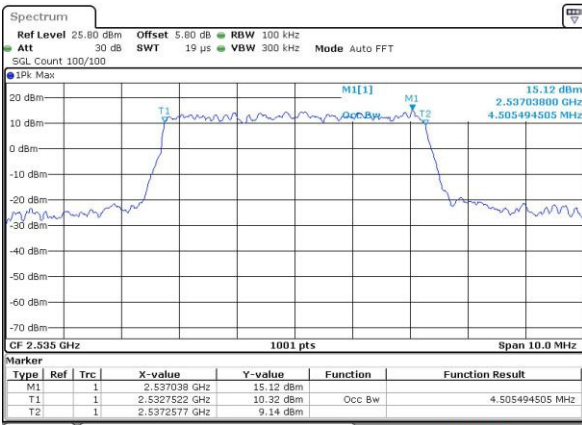
Date: 6 JUN 2016 09:21:35

Lowest Channel / 5MHz / 16QAM



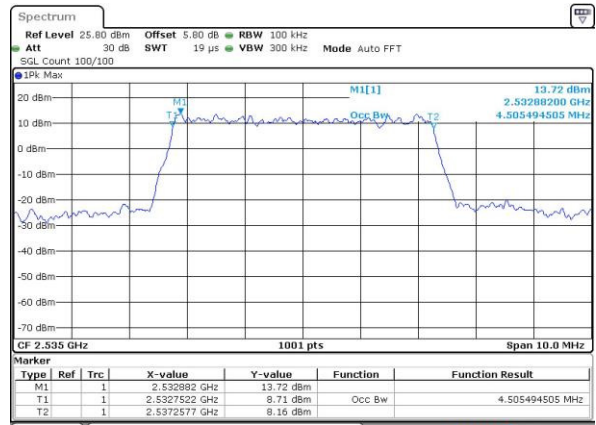
Date: 6 JUN 2016 09:21:57

Middle Channel / 5MHz / QPSK



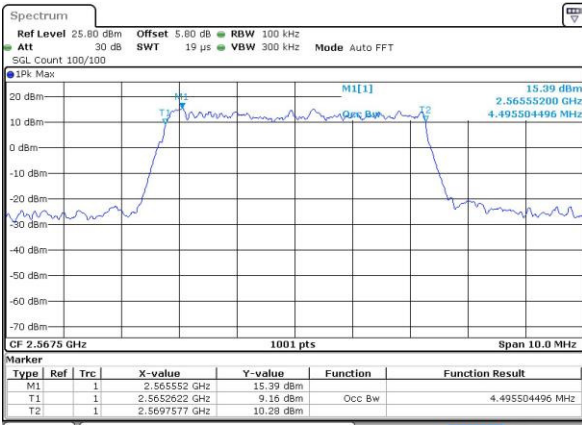
Date: 6 JUN 2016 09:22:39

Middle Channel / 5MHz / 16QAM



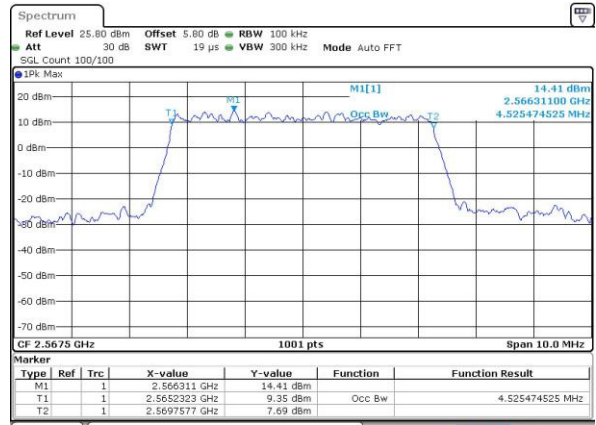
Date: 6 JUN 2016 09:22:18

Highest Channel / 5MHz / QPSK



Date: 6 JUN 2016 09:23:00

Highest Channel / 5MHz / 16QAM

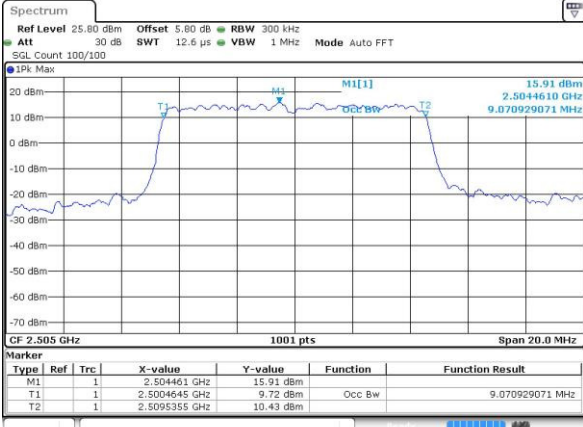


Date: 6 JUN 2016 09:23:20



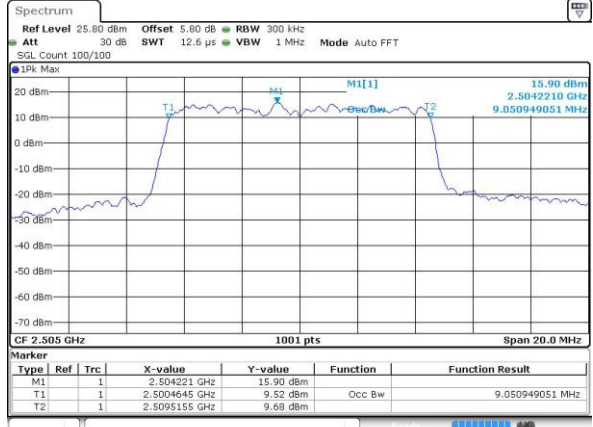
LTE Band 7

Lowest Channel / 10MHz / QPSK



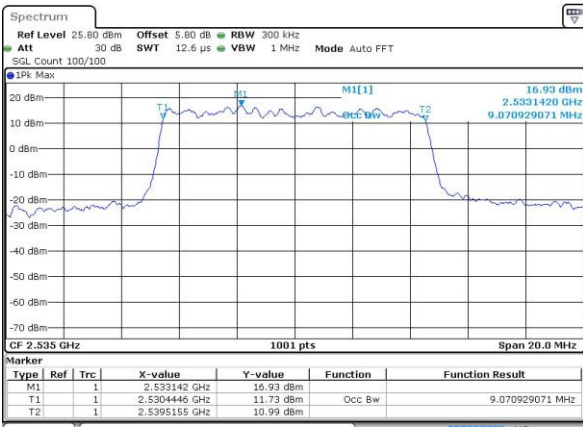
Date: 6 JUN 2016 09:38:17

Lowest Channel / 10MHz / 16QAM



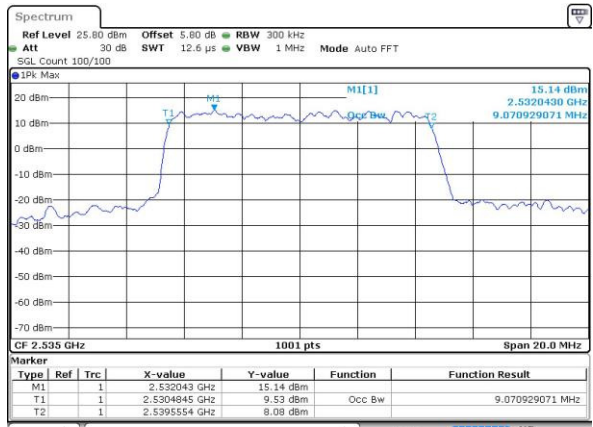
Date: 6 JUN 2016 09:38:38

Middle Channel / 10MHz / QPSK



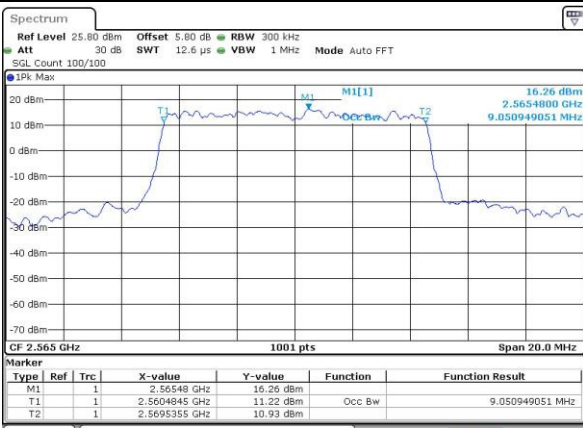
Date: 6 JUN 2016 09:39:20

Middle Channel / 10MHz / 16QAM



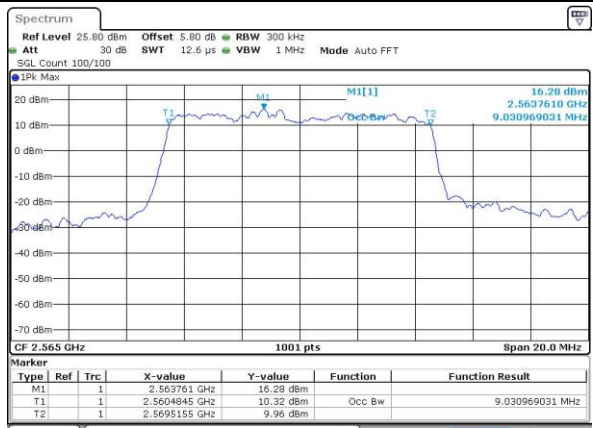
Date: 6 JUN 2016 09:38:59

Highest Channel / 10MHz / QPSK



Date: 6 JUN 2016 09:39:41

Highest Channel / 10MHz / 16QAM

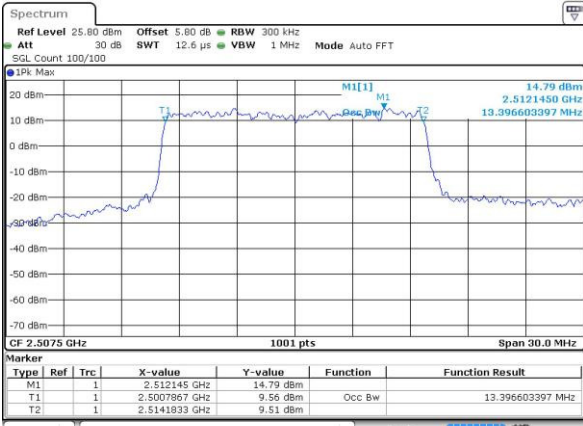


Date: 6 JUN 2016 09:40:02



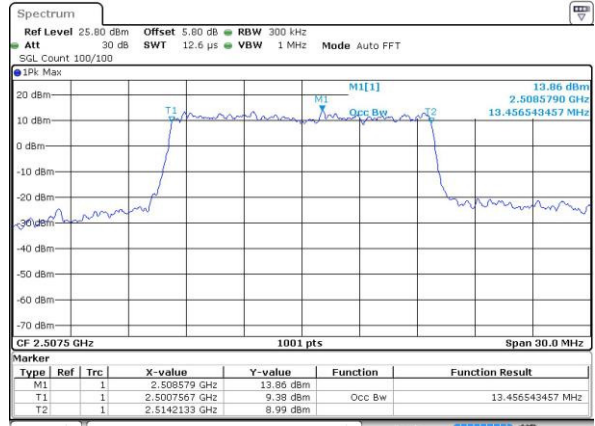
LTE Band 7

Lowest Channel / 15MHz / QPSK



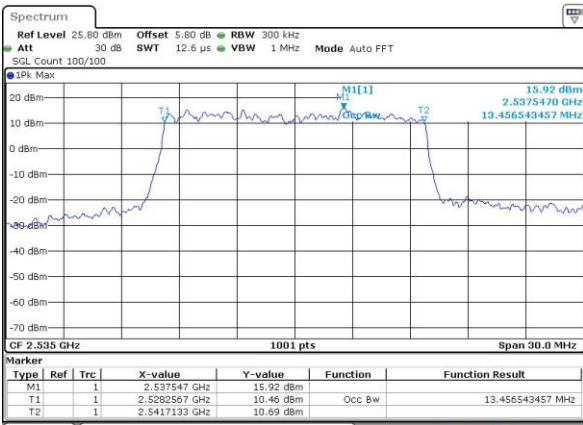
Date: 6 JUN 2016 09:55:19

Lowest Channel / 15MHz / 16QAM



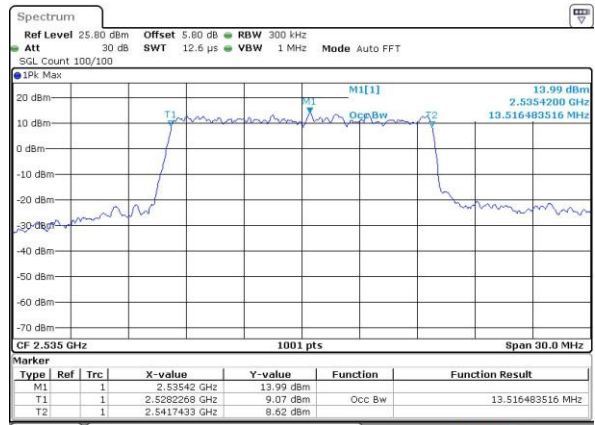
Date: 6 JUN 2016 09:54:58

Middle Channel / 15MHz / QPSK



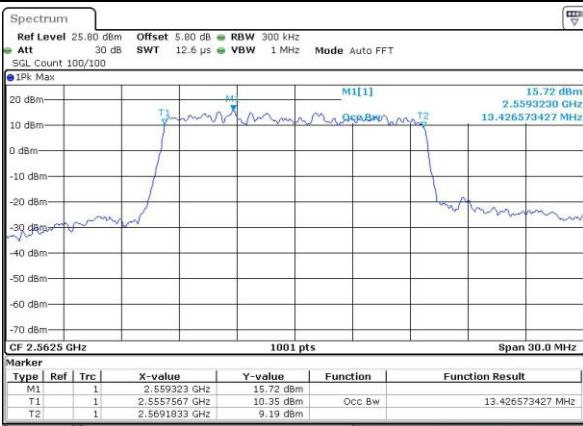
Date: 6 JUN 2016 09:55:40

Middle Channel / 15MHz / 16QAM



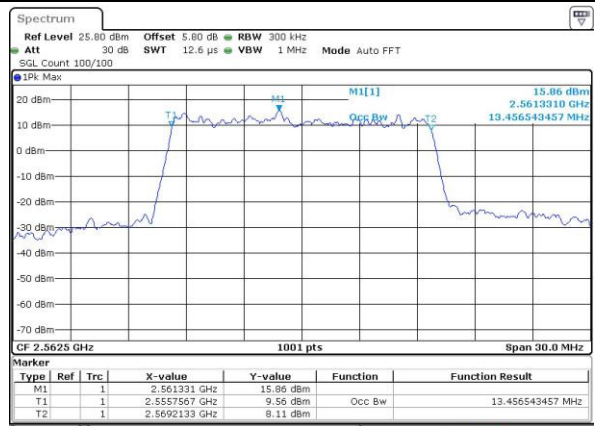
Date: 6 JUN 2016 09:56:01

Highest Channel / 15MHz / QPSK



Date: 6 JUN 2016 09:56:42

Highest Channel / 15MHz / 16QAM



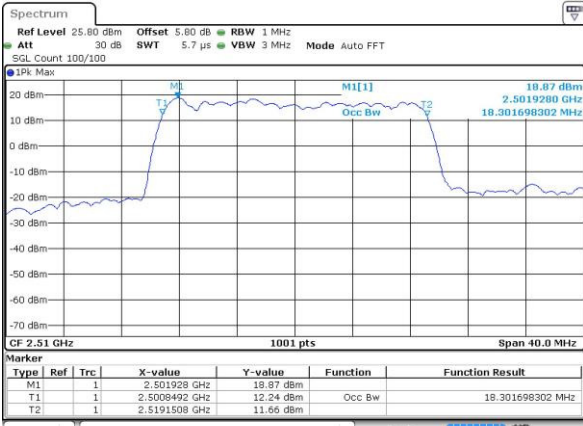
Date: 6 JUN 2016 09:56:21





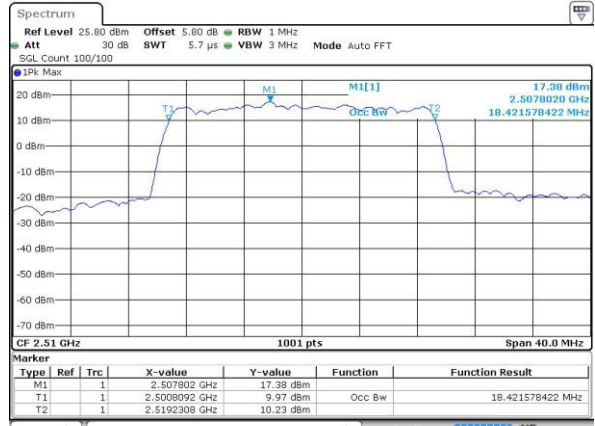
LTE Band 7

Lowest Channel / 20MHz / QPSK



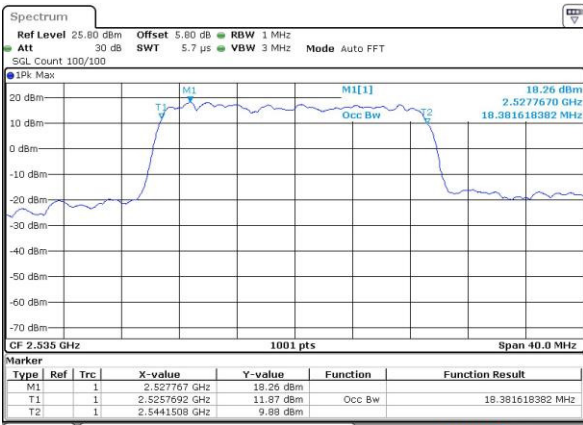
Date: 6 JUN 2016 10:12:00

Lowest Channel / 20MHz / 16QAM



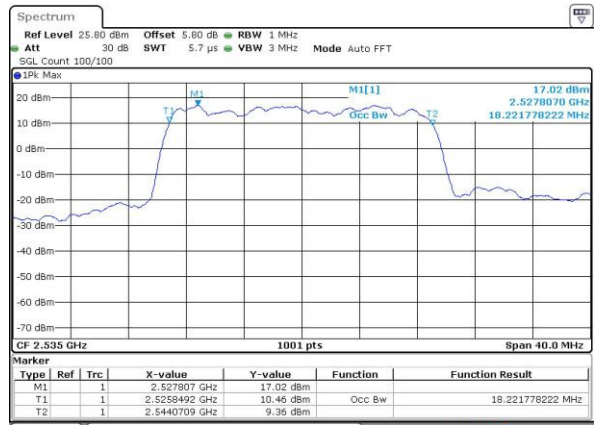
Date: 6 JUN 2016 10:11:39

Middle Channel / 20MHz / QPSK



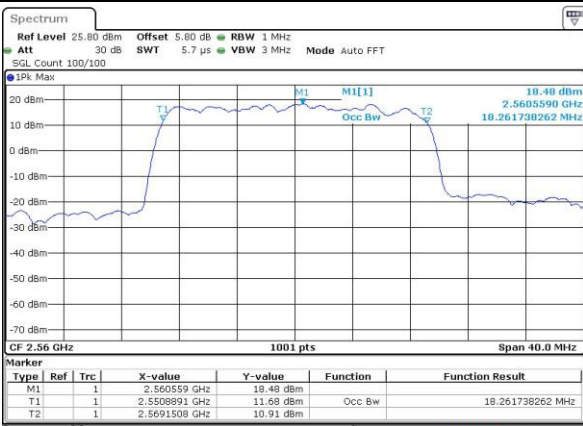
Date: 6 JUN 2016 10:12:20

Middle Channel / 20MHz / 16QAM



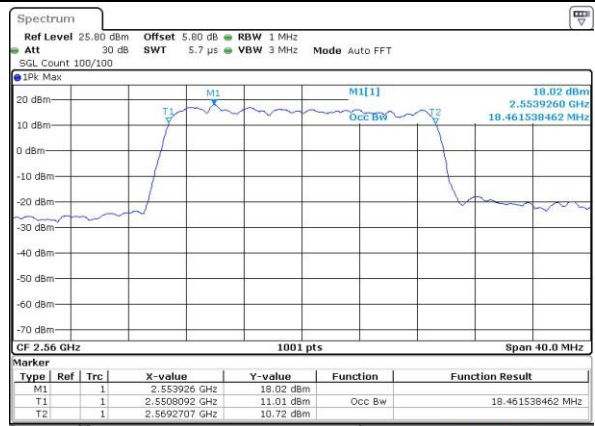
Date: 6 JUN 2016 10:12:41

Highest Channel / 20MHz / QPSK



Date: 6 JUN 2016 10:13:23

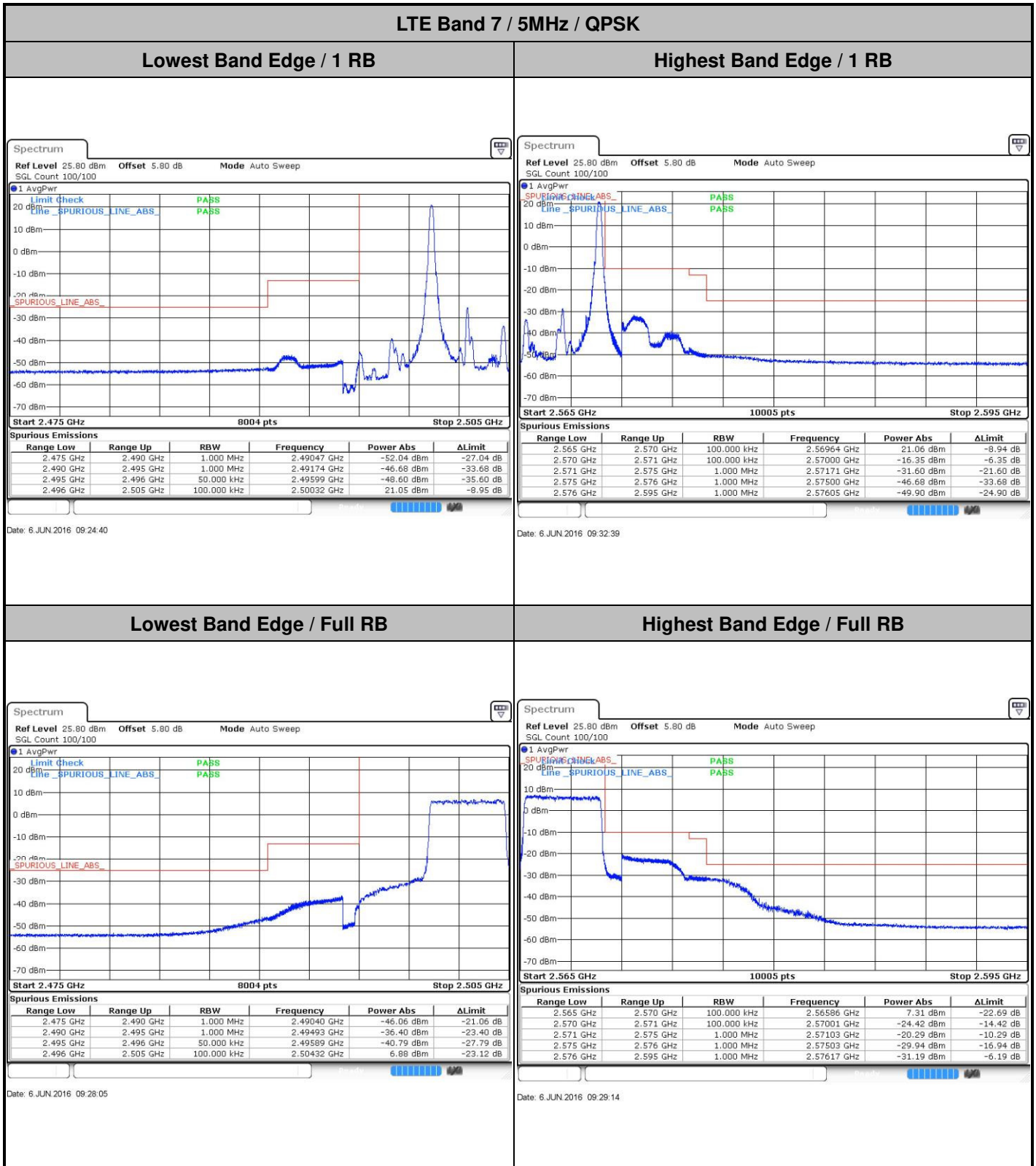
Highest Channel / 20MHz / 16QAM



Date: 6 JUN 2016 10:13:02



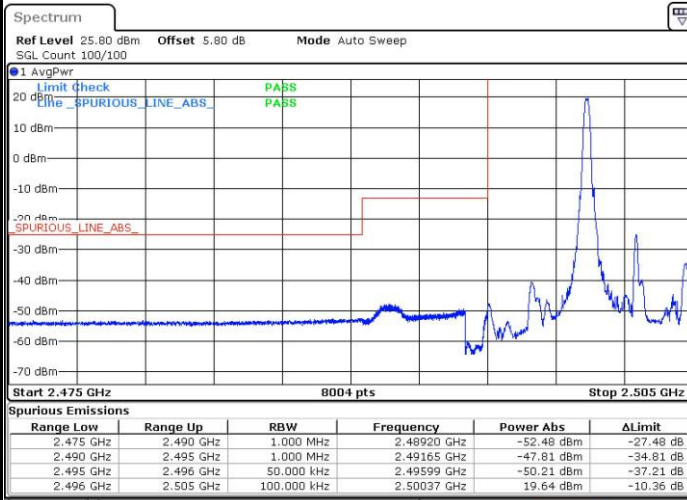
# Conducted Band Edge





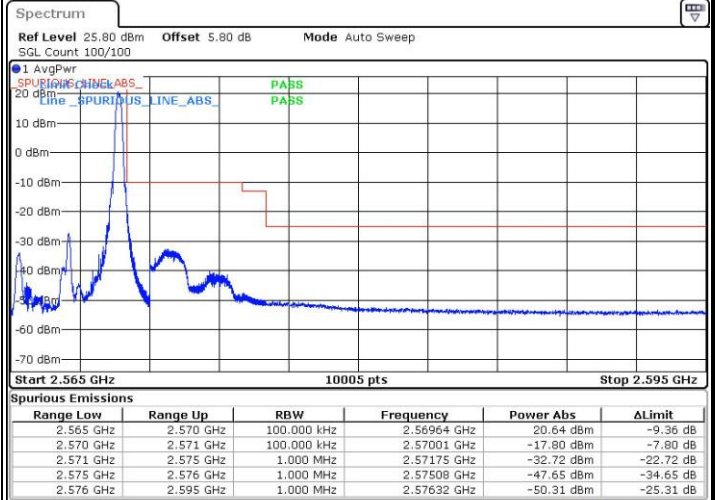
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



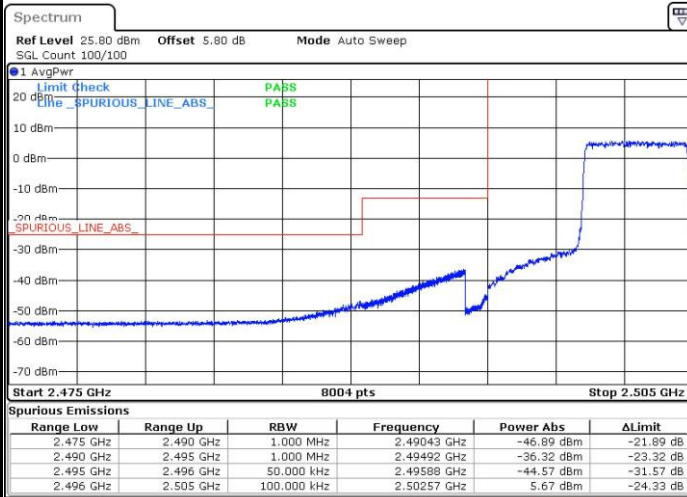
Date: 6 JUN 2016 09:25:49

Highest Band Edge / 1 RB



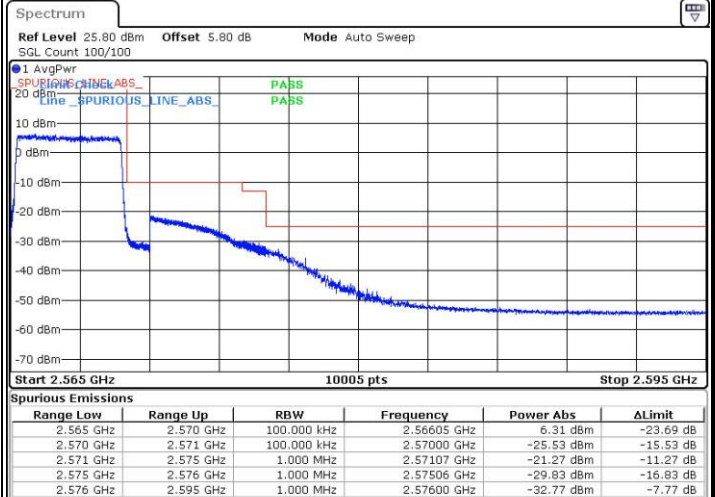
Date: 6 JUN 2016 09:31:31

Lowest Band Edge / Full RB



Date: 6 JUN 2016 09:26:57

Highest Band Edge / Full RB

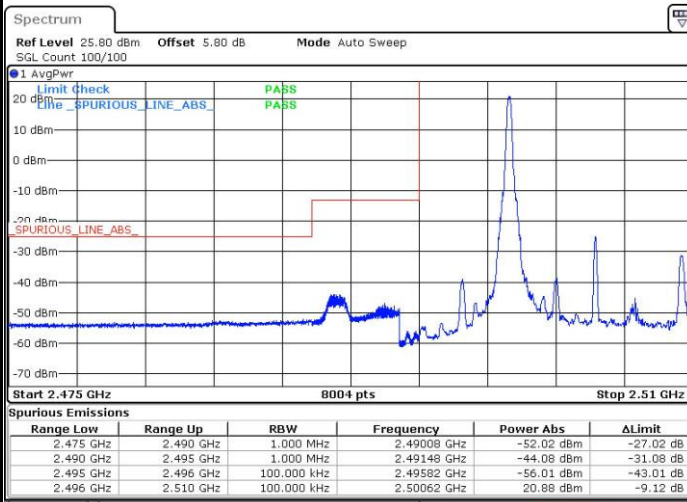


Date: 6 JUN 2016 09:30:22



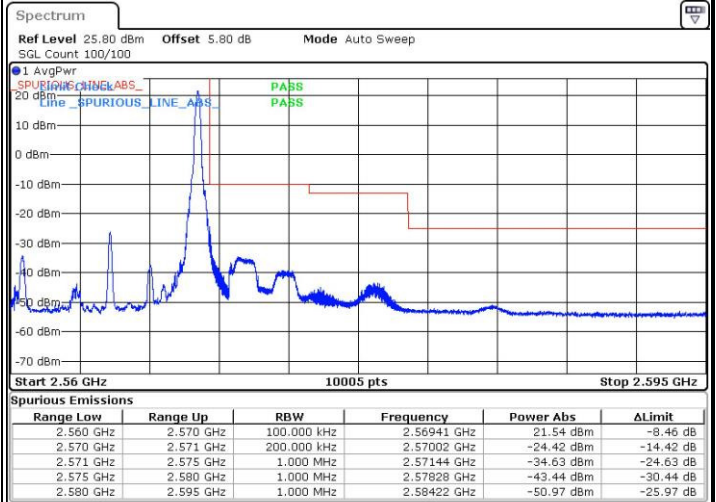
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



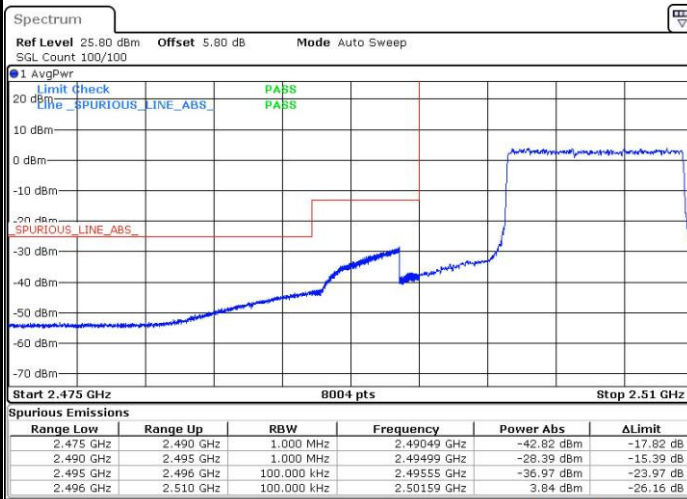
Date: 6 JUN 2016 09:41:21

Highest Band Edge / 1 RB



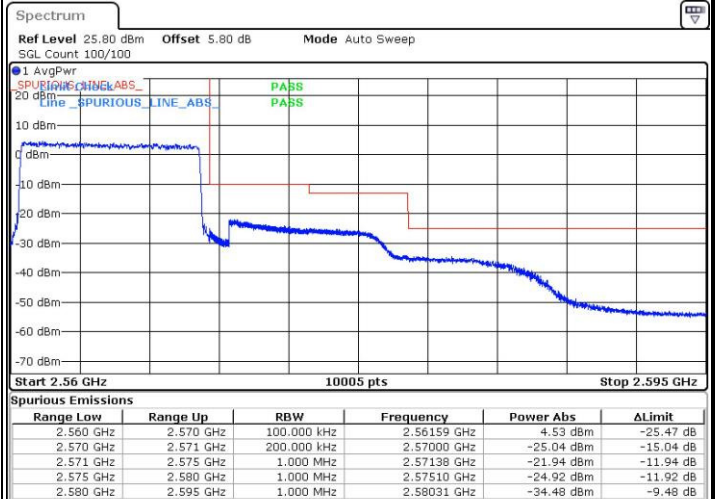
Date: 6 JUN 2016 09:49:20

Lowest Band Edge / Full RB



Date: 6 JUN 2016 09:44:46

Highest Band Edge / Full RB

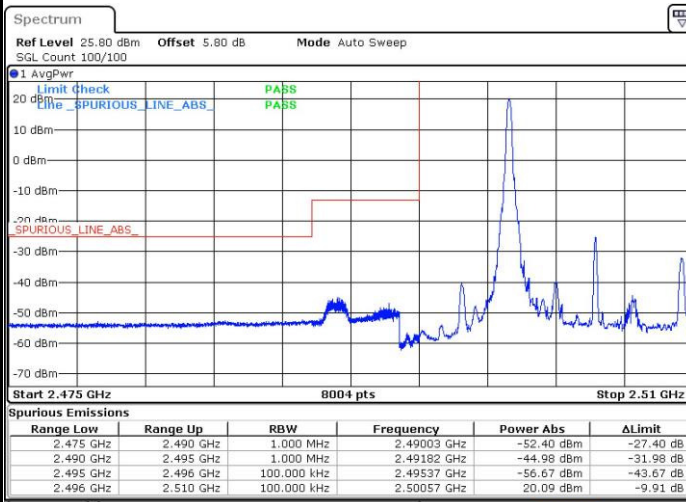


Date: 6 JUN 2016 09:45:54



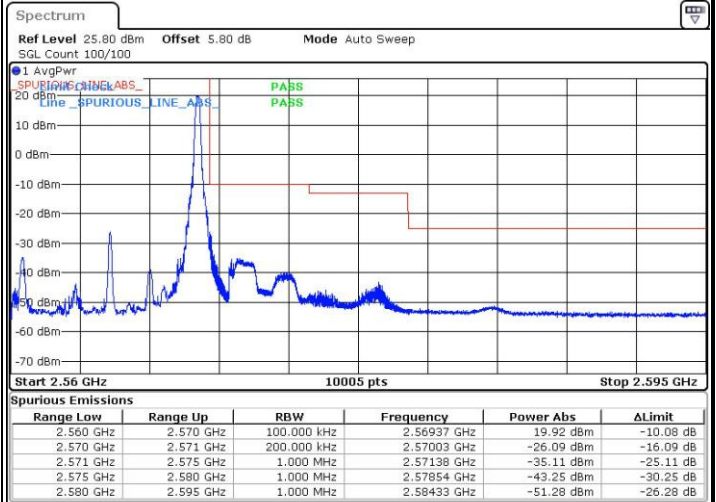
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



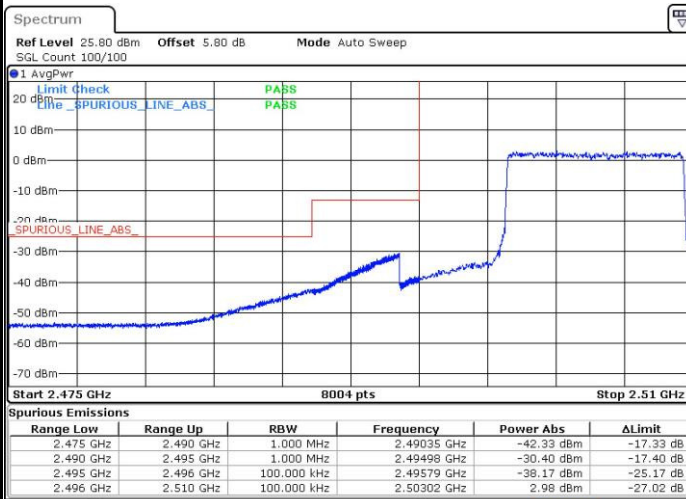
Date: 6 JUN 2016 09:42:29

Highest Band Edge / 1 RB



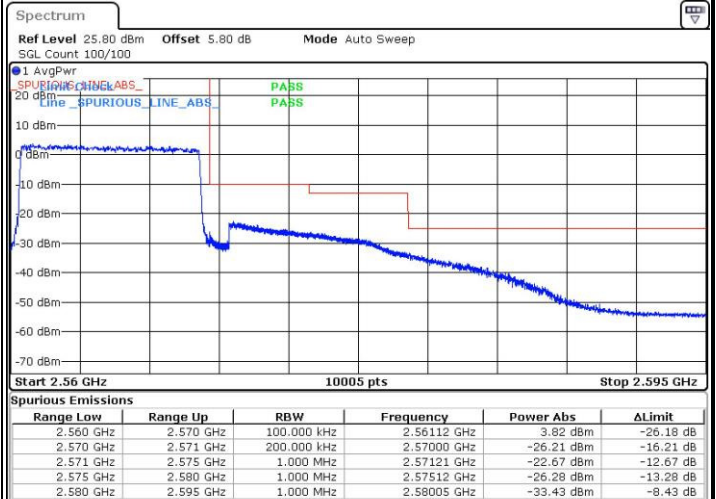
Date: 6 JUN 2016 09:48:11

Lowest Band Edge / Full RB



Date: 6 JUN 2016 09:43:37

Highest Band Edge / Full RB



Date: 6 JUN 2016 09:47:03