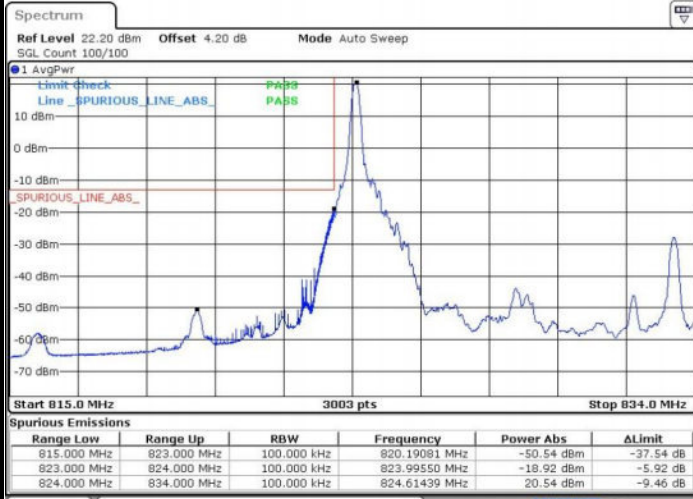




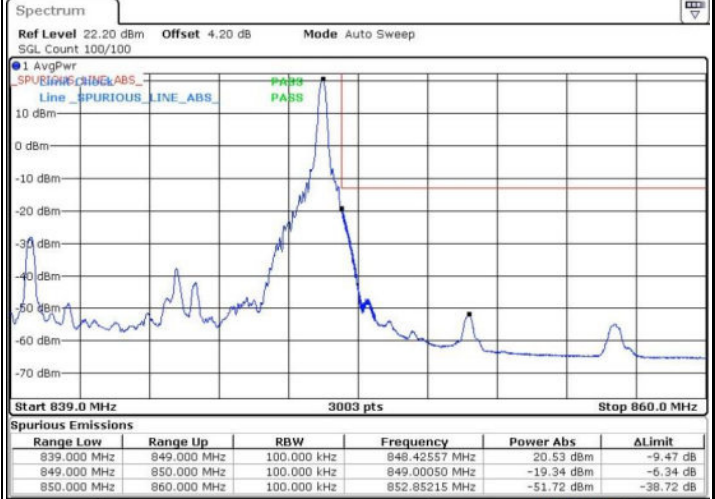
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



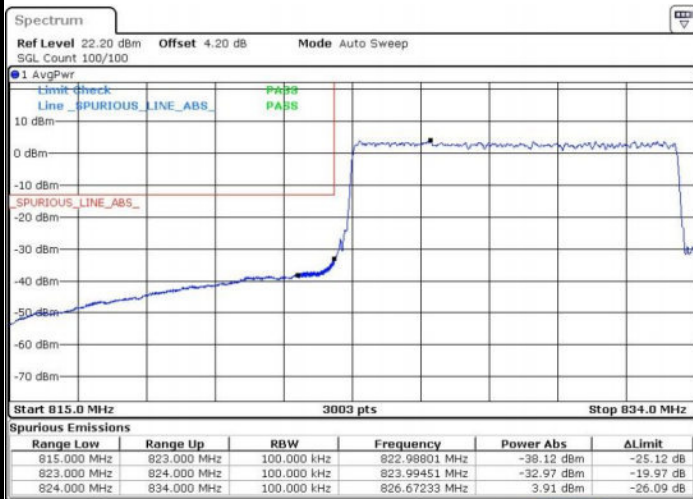
Date: 7 JUN 2016 05:10:40

Highest Band Edge / 1 RB



Date: 7 JUN 2016 05:28:16

Lowest Band Edge / Full RB



Date: 7 JUN 2016 05:16:56

Highest Band Edge / Full RB

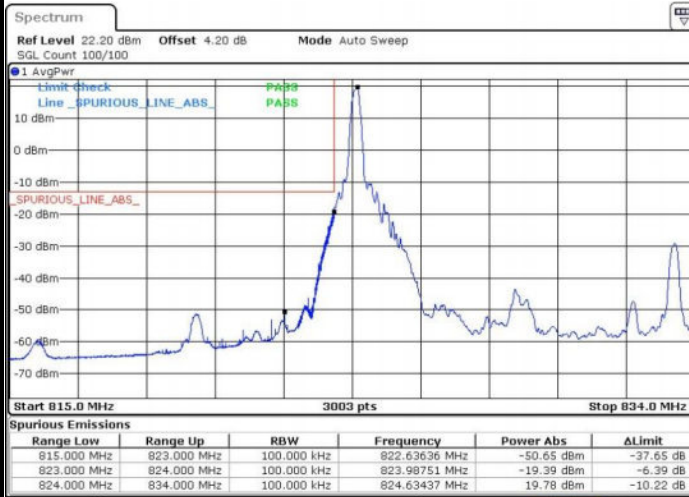


Date: 7 JUN 2016 05:34:32



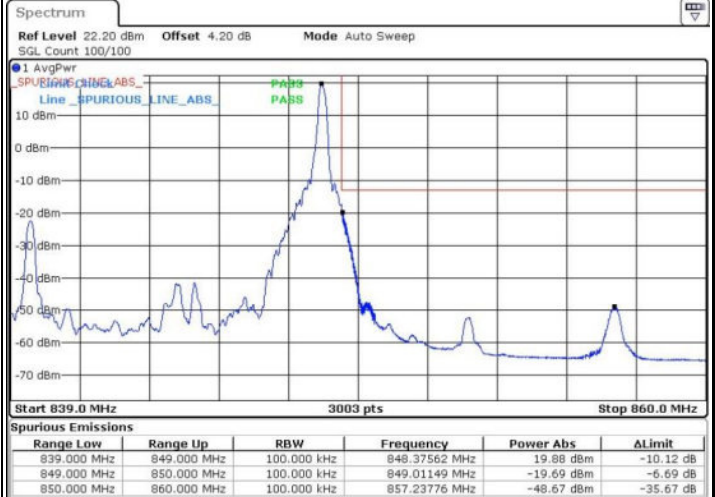
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



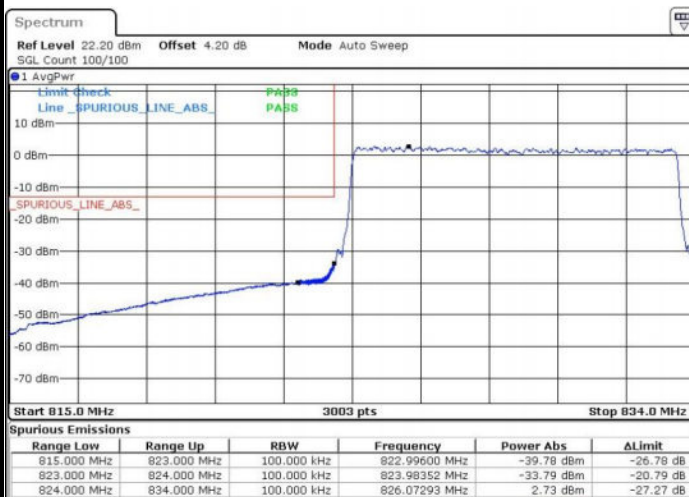
Date: 7 JUN 2016 05:13:48

Highest Band Edge / 1 RB



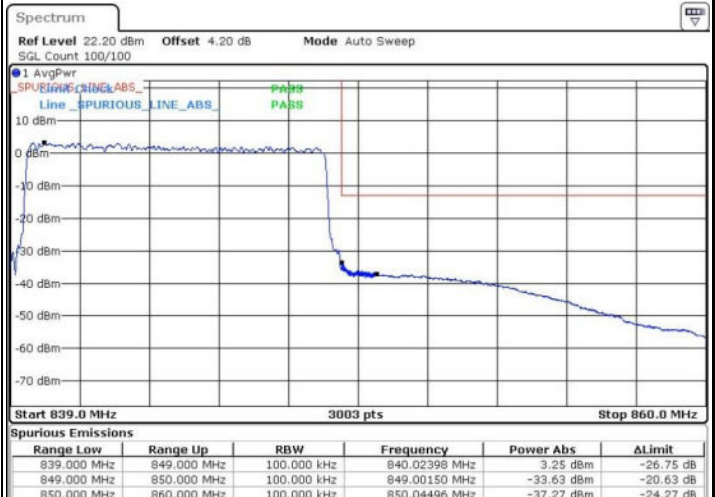
Date: 7 JUN 2016 05:31:24

Lowest Band Edge / Full RB



Date: 7 JUN 2016 05:20:04

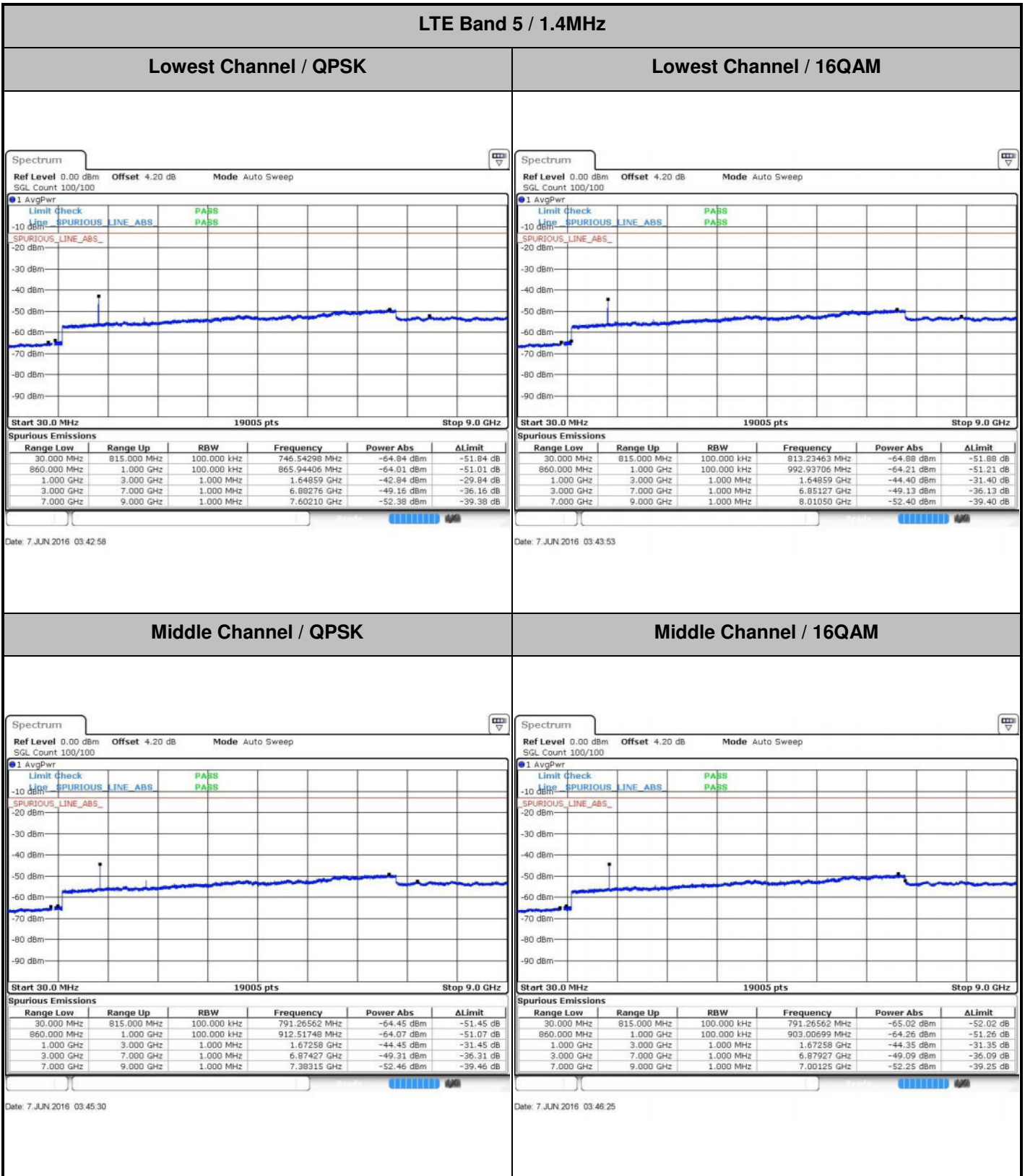
Highest Band Edge / Full RB



Date: 7 JUN 2016 05:37:40



# Conducted Spurious Emission

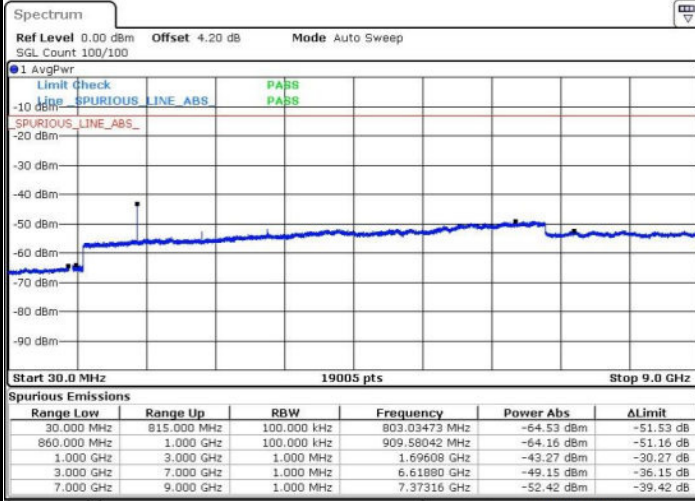






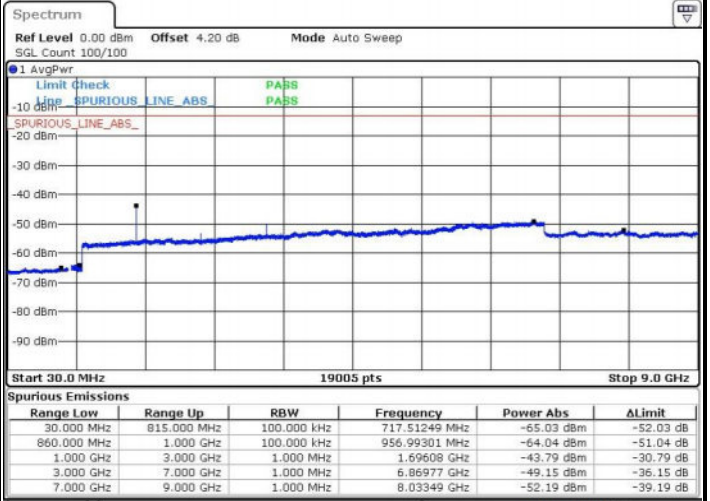
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 7 JUN 2016 04:00:34

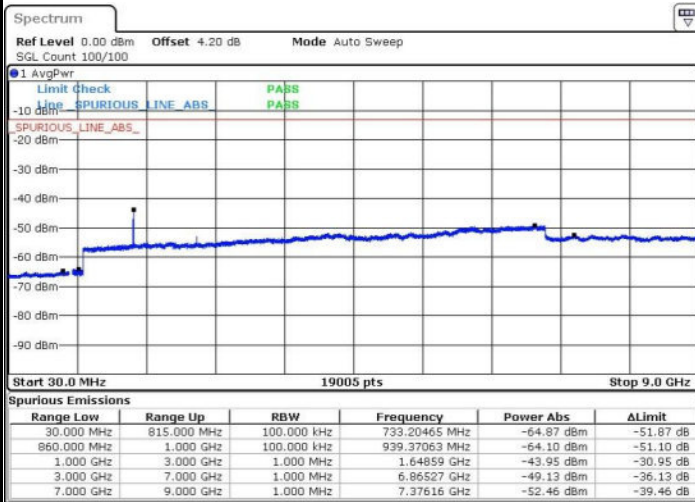
Highest Channel / 16QAM



Date: 7 JUN 2016 04:01:29

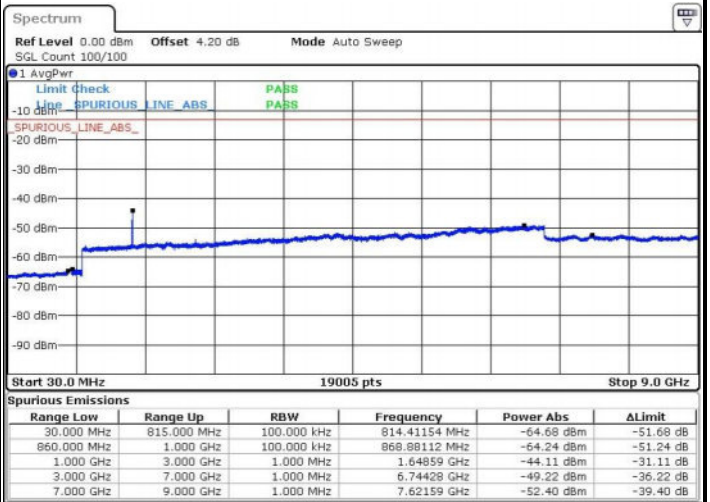
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 7 JUN 2016 04:15:38

Lowest Channel / 16QAM



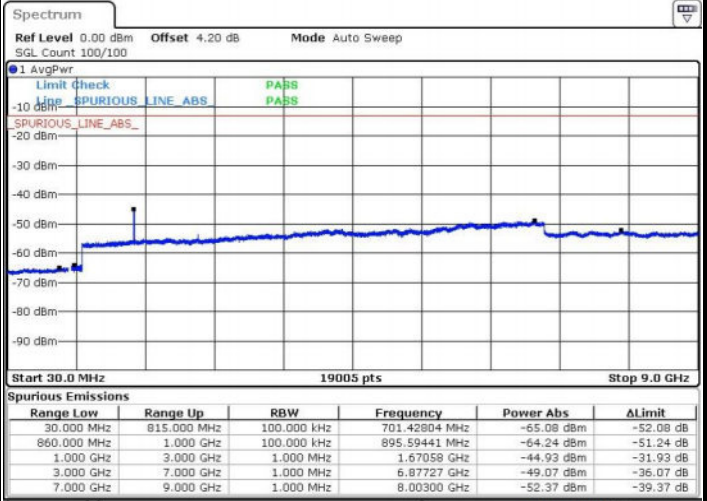
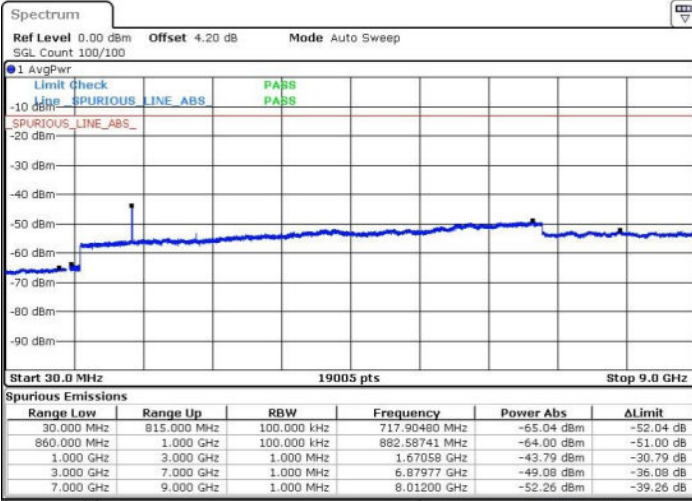
Date: 7 JUN 2016 04:16:33



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

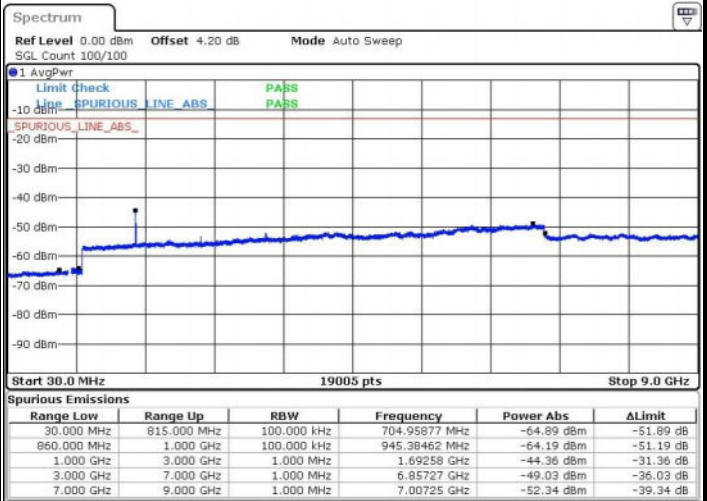
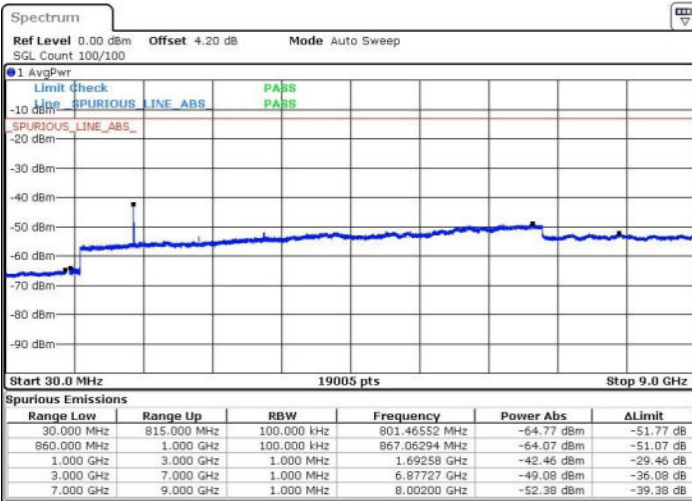


Date: 7 JUN 2016 04:18:10

Date: 7 JUN 2016 04:19:05

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7 JUN 2016 04:33:14

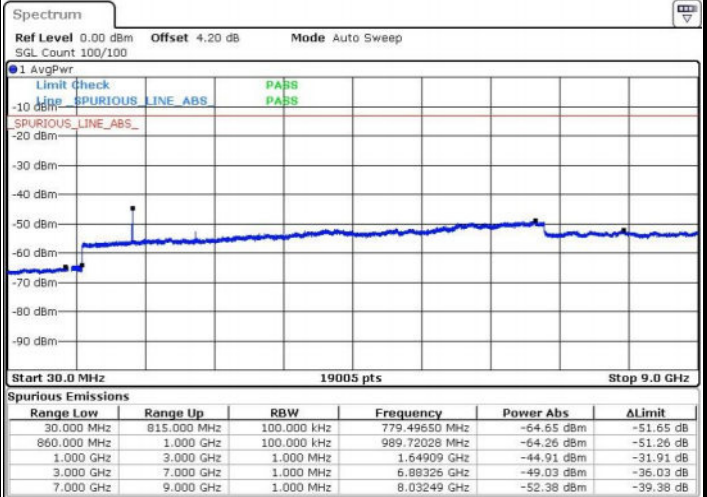
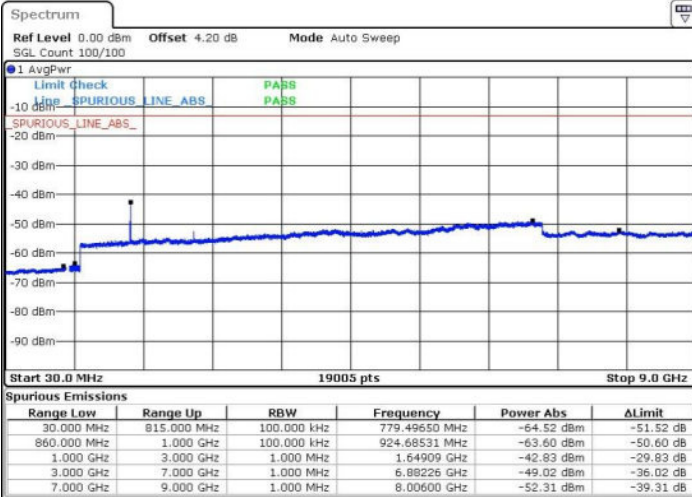
Date: 7 JUN 2016 04:34:09



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

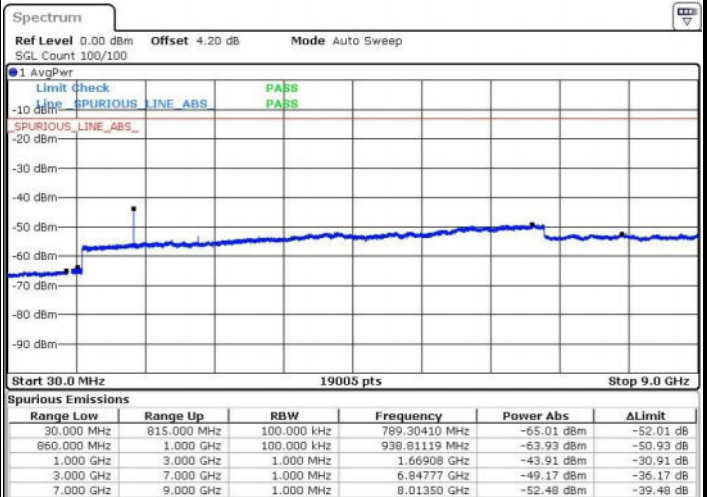
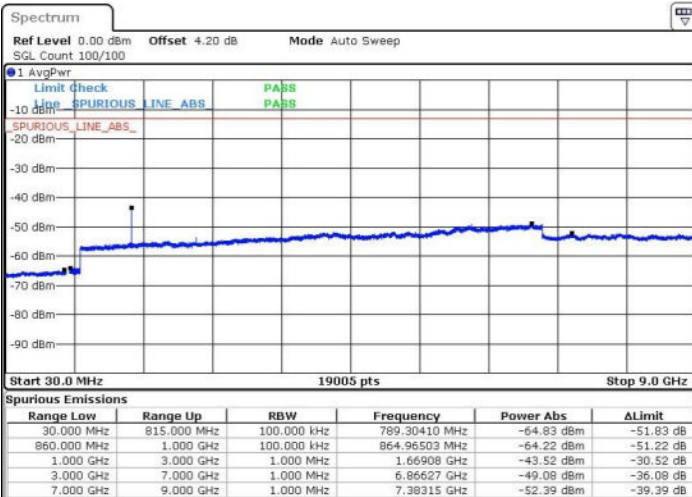


Date: 7 JUN 2016 04:48:18

Date: 7 JUN 2016 04:49:13

Middle Channel / QPSK

Middle Channel / 16QAM



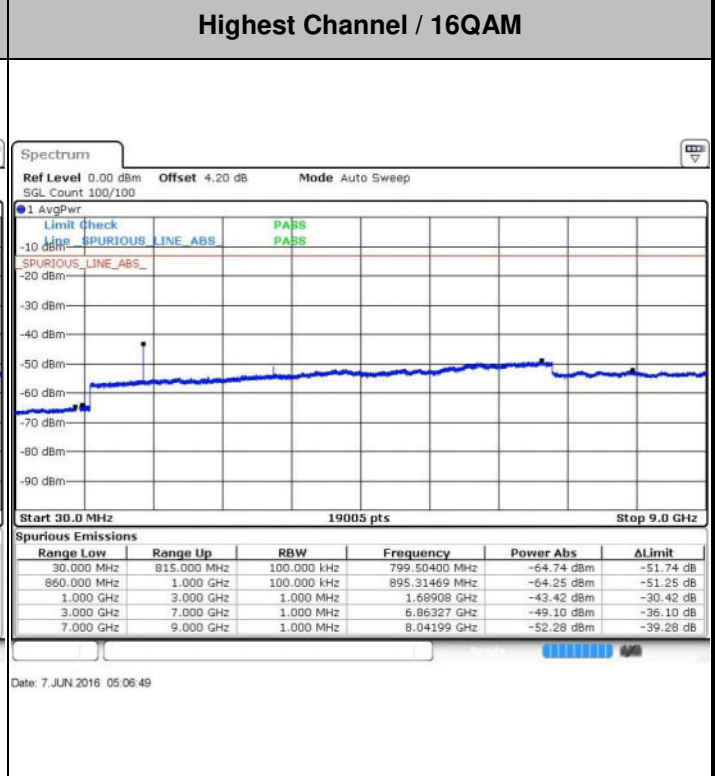
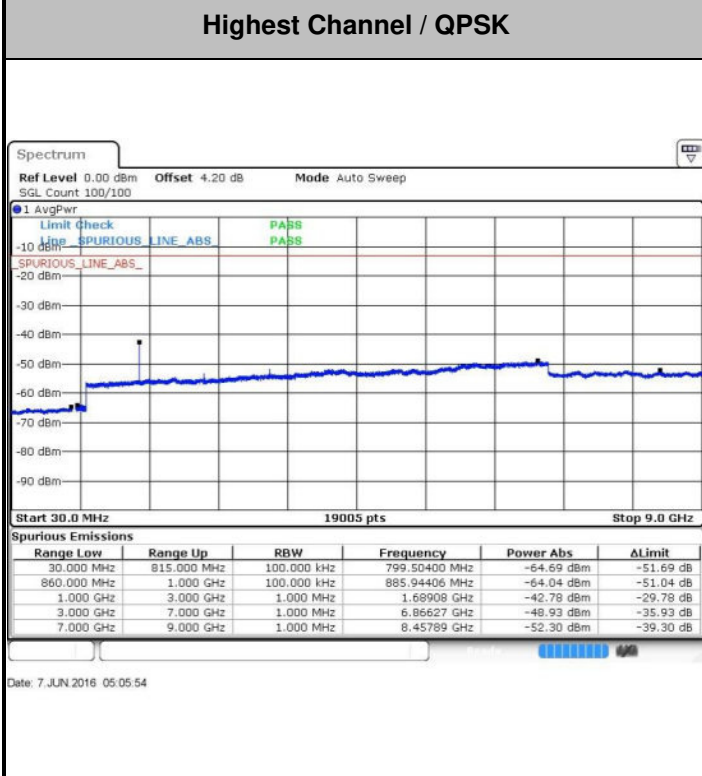
Date: 7 JUN 2016 04:50:50

Date: 7 JUN 2016 04:51:45

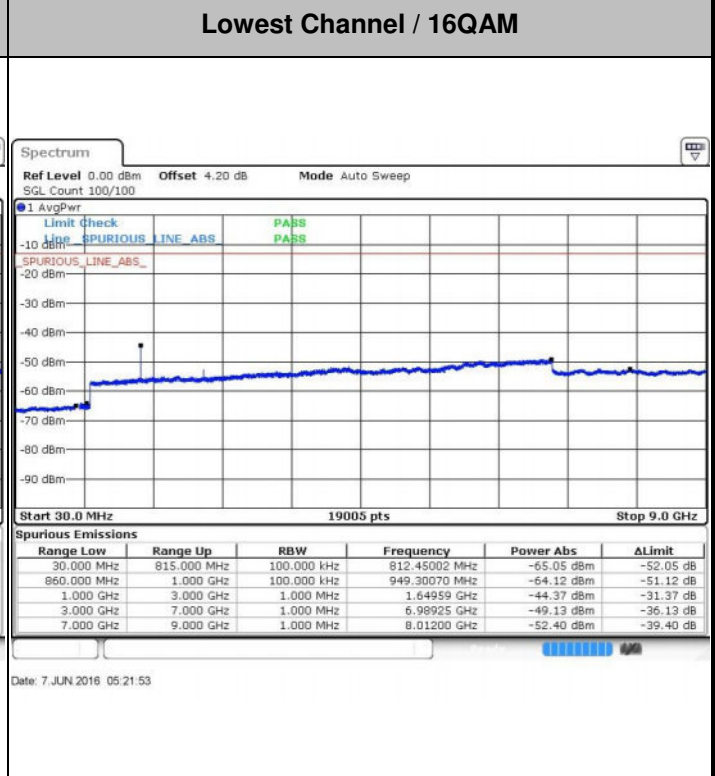
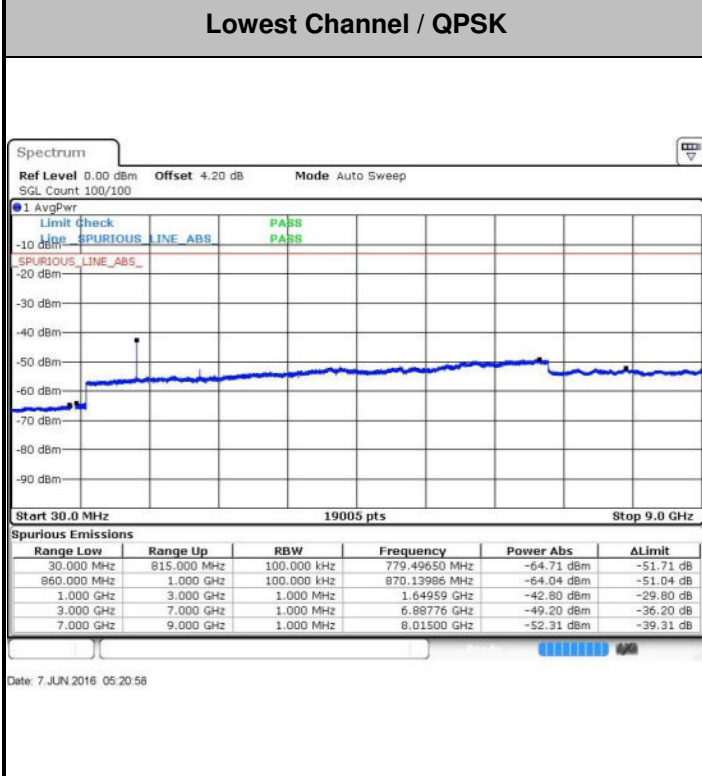




**LTE Band 5 / 5MHz**



**LTE Band 5 / 10MHz**

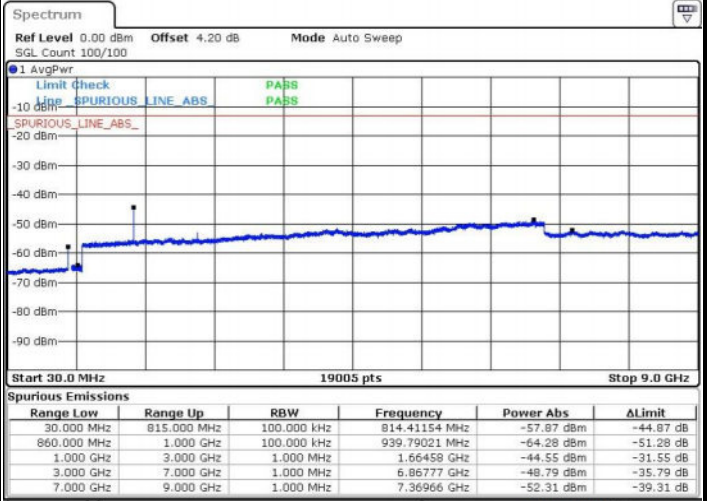
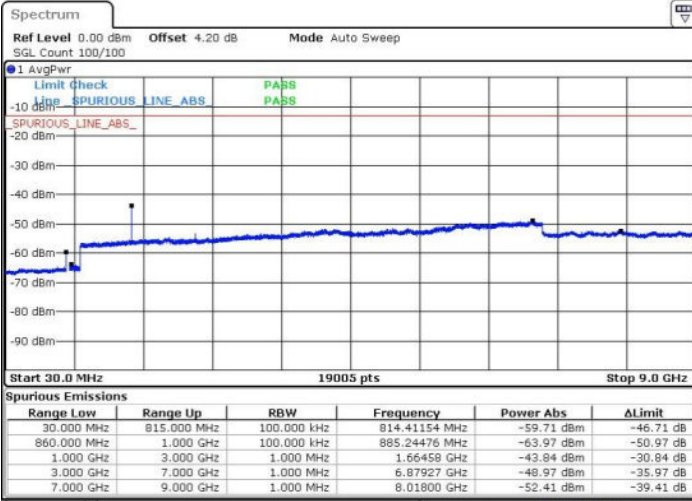




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

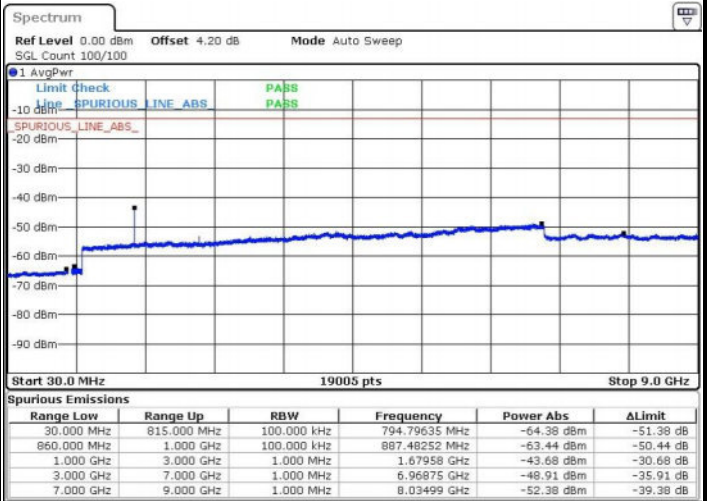
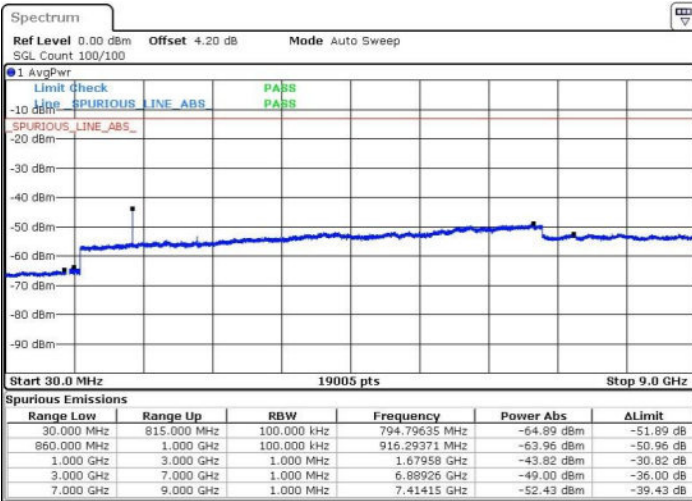


Date: 7 JUN 2016 05:23:30

Date: 7 JUN 2016 05:24:25

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7 JUN 2016 05:38:34

Date: 7 JUN 2016 05:39:29





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0050	
-20	Normal Voltage	0.0055	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.7V. ; Maximum Voltage =4.2V



## LTE Band 7

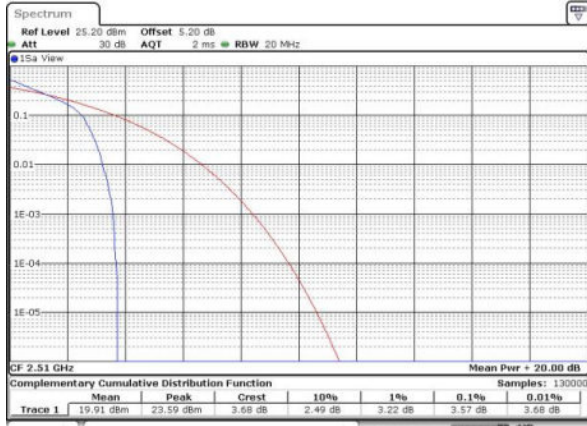
### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	5.13	4.41	6.12	PASS
Middle CH	3.68	5.48	4.67	6.41	
Highest CH	3.88	5.16	4.35	6.17	



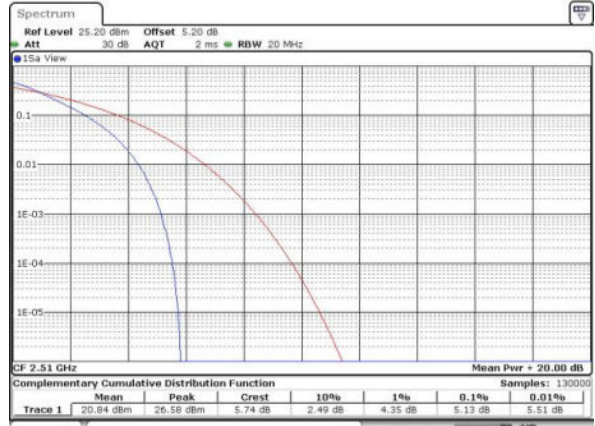
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



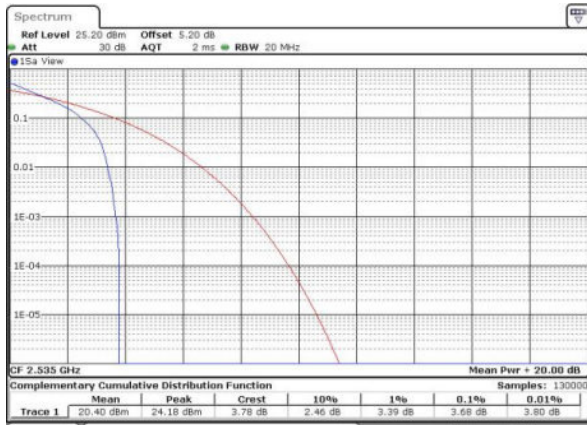
Date: 11 JUN 2016 10:49:00

Lowest Channel / Full RB



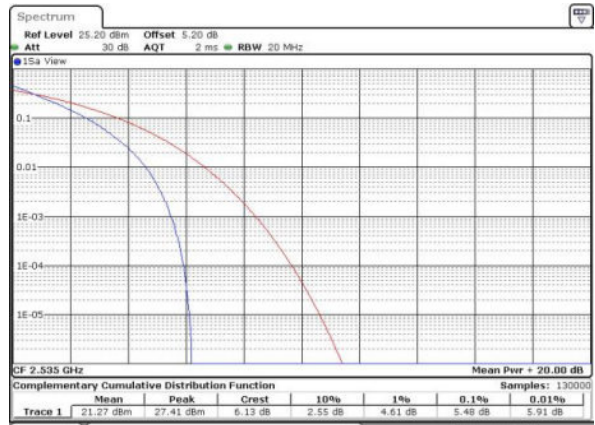
Date: 11 JUN 2016 10:49:15

Middle Channel / 1RB



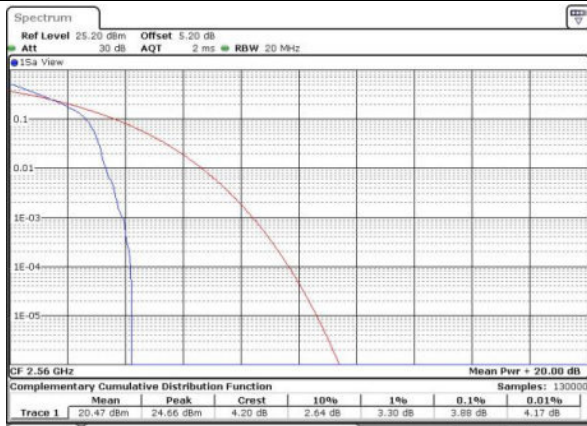
Date: 11 JUN 2016 10:50:14

Middle Channel / Full RB



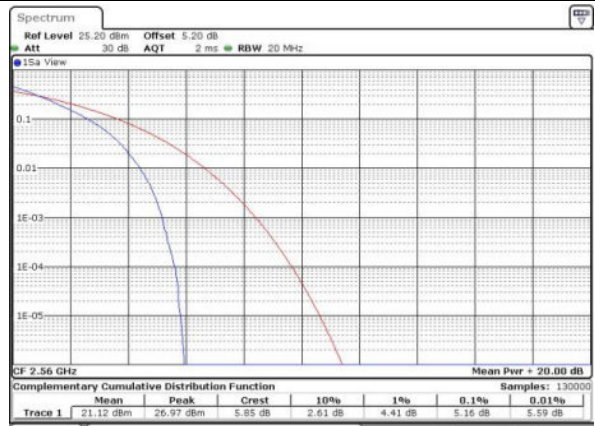
Date: 11 JUN 2016 10:50:03

Highest Channel / 1RB



Date: 11 JUN 2016 10:50:46

Highest Channel / Full RB



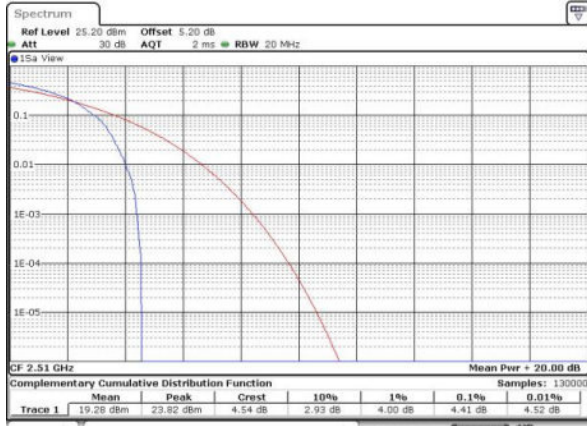
Date: 11 JUN 2016 10:50:56





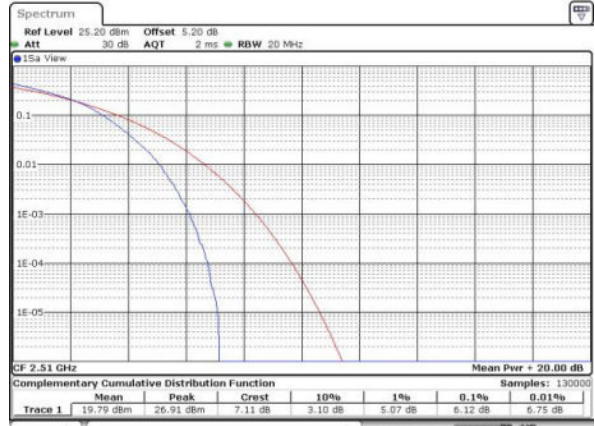
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



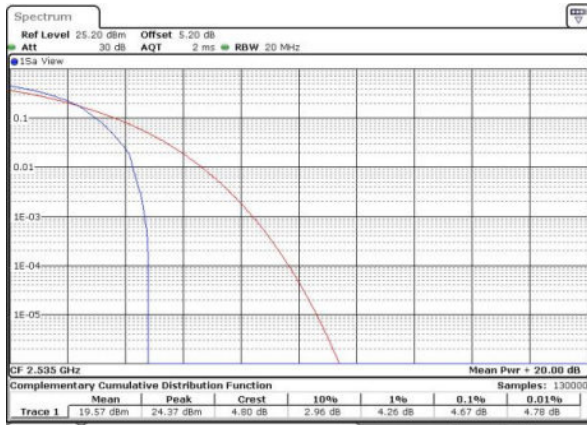
Date: 11 JUN 2016 10:48:45

Lowest Channel / Full RB



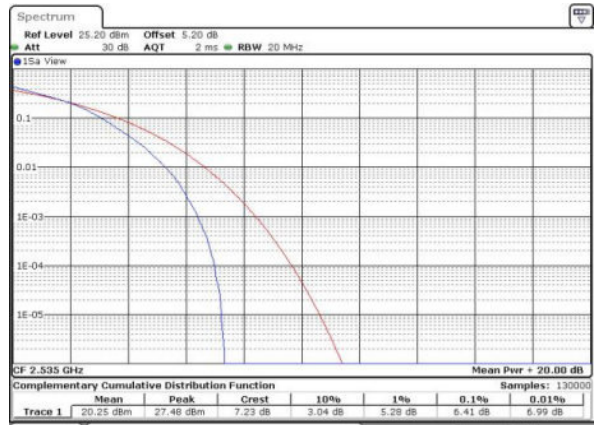
Date: 11 JUN 2016 10:49:42

Middle Channel / 1RB



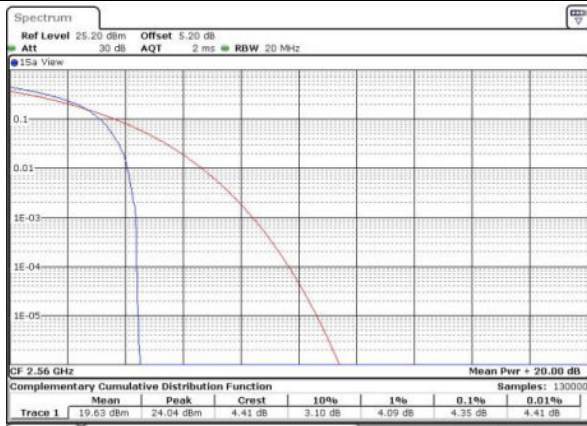
Date: 11 JUN 2016 10:50:25

Middle Channel / Full RB



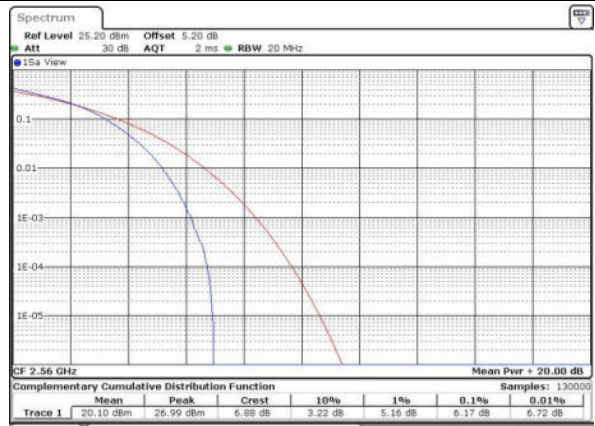
Date: 11 JUN 2016 10:49:52

Highest Channel / 1RB



Date: 11 JUN 2016 10:50:35

Highest Channel / Full RB



Date: 11 JUN 2016 10:51:07



**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	-	-	-	-	4.965	4.965	9.670	9.890	14.595	14.356	20.100	20.300
Middle CH	-	-	-	-	4.955	4.955	9.730	9.670	14.386	14.356	20.220	20.220
Highest CH	-	-	-	-	4.875	5.035	9.710	9.630	14.625	14.476	20.220	20.140



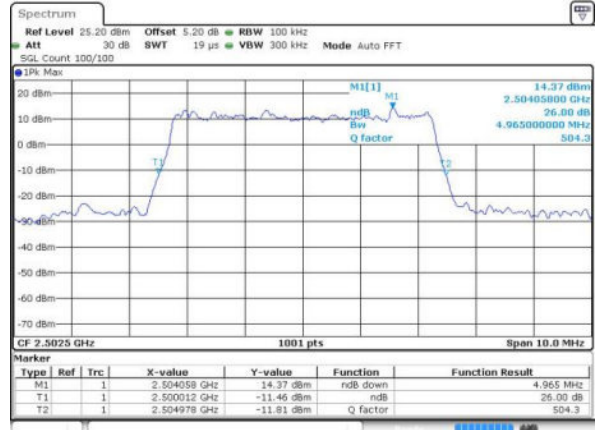
LTE Band 7

Lowest Channel / 5MHz / QPSK



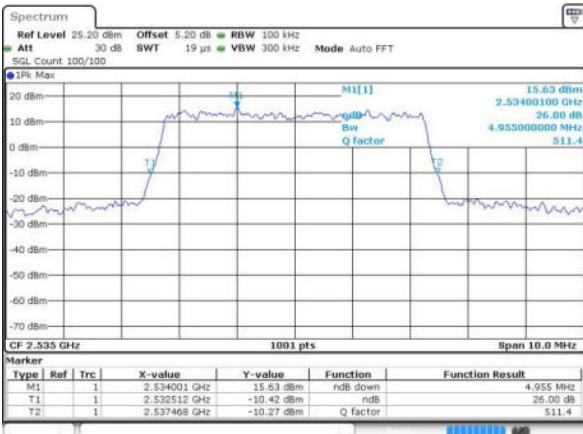
Date: 10 JUN 2016 14:58:42

Lowest Channel / 5MHz / 16QAM



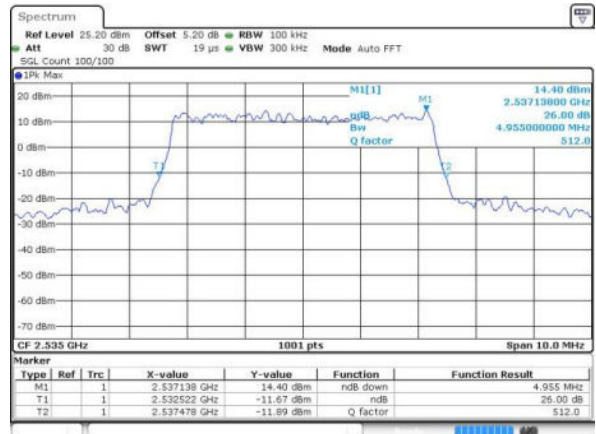
Date: 10 JUN 2016 14:59:05

Middle Channel / 5MHz / QPSK



Date: 10 JUN 2016 14:59:49

Middle Channel / 5MHz / 16QAM



Date: 10 JUN 2016 14:59:27

Highest Channel / 5MHz / QPSK



Date: 10 JUN 2016 15:00:11

Highest Channel / 5MHz / 16QAM



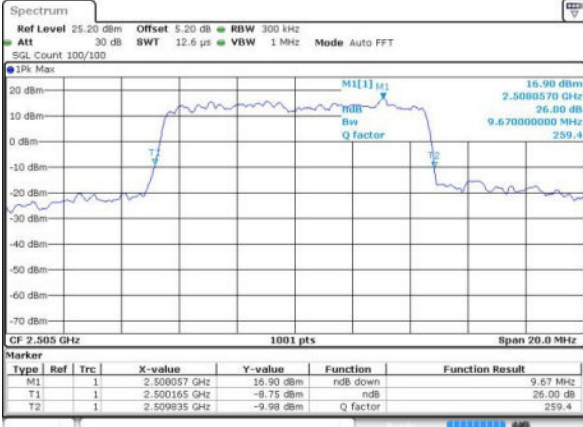
Date: 10 JUN 2016 15:00:33





LTE Band 7

Lowest Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:15:41

Lowest Channel / 10MHz / 16QAM



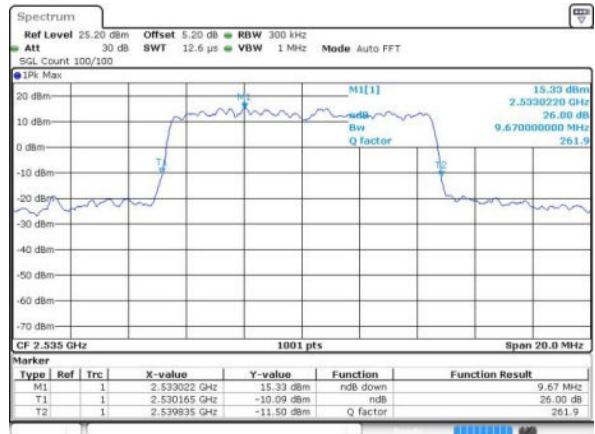
Date: 10 JUN 2016 15:16:03

Middle Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:16:47

Middle Channel / 10MHz / 16QAM



Date: 10 JUN 2016 15:16:25

Highest Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:17:09

Highest Channel / 10MHz / 16QAM

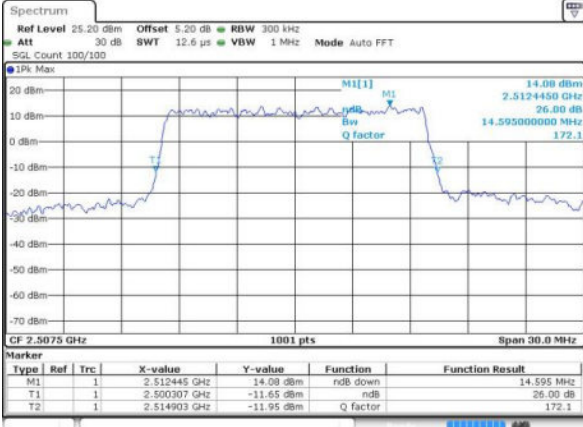


Date: 10 JUN 2016 15:17:31



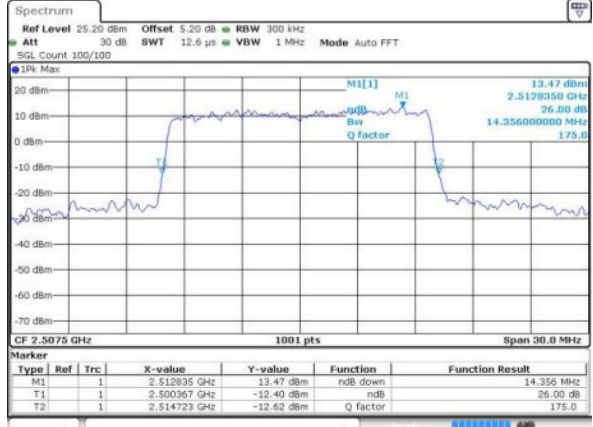
LTE Band 7

Lowest Channel / 15MHz / QPSK



Date: 10 JUN 2016 15:33:01

Lowest Channel / 15MHz / 16QAM



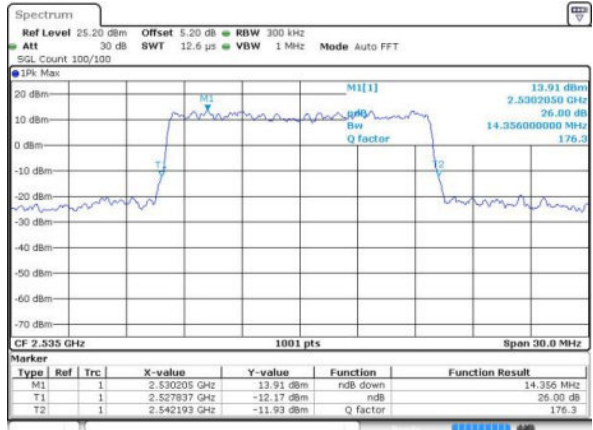
Date: 10 JUN 2016 15:32:39

Middle Channel / 15MHz / QPSK



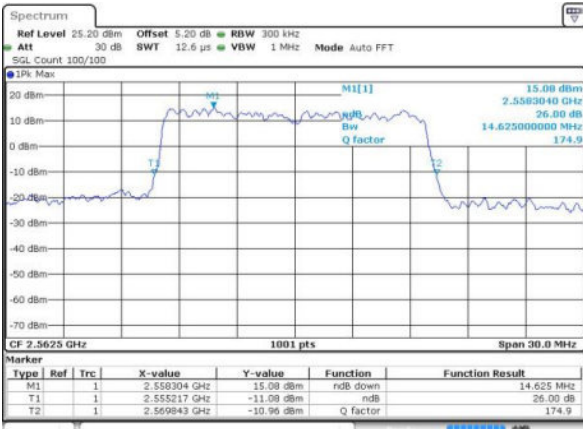
Date: 10 JUN 2016 15:33:23

Middle Channel / 15MHz / 16QAM



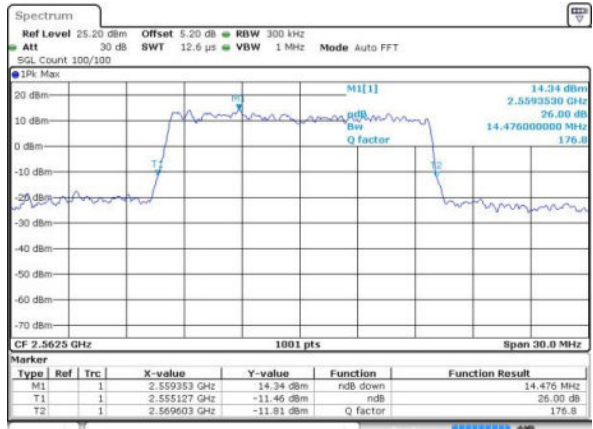
Date: 10 JUN 2016 15:33:45

Highest Channel / 15MHz / QPSK



Date: 10 JUN 2016 15:34:29

Highest Channel / 15MHz / 16QAM

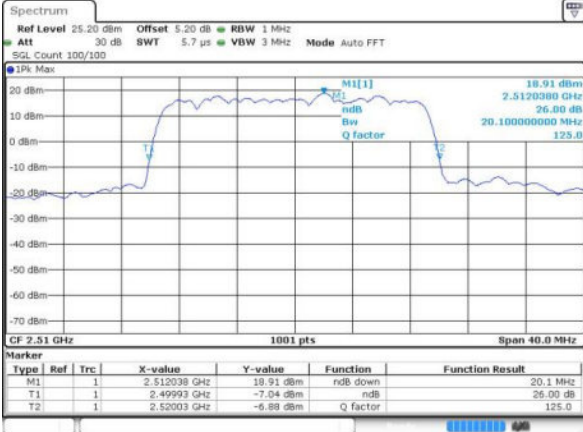


Date: 10 JUN 2016 15:34:07



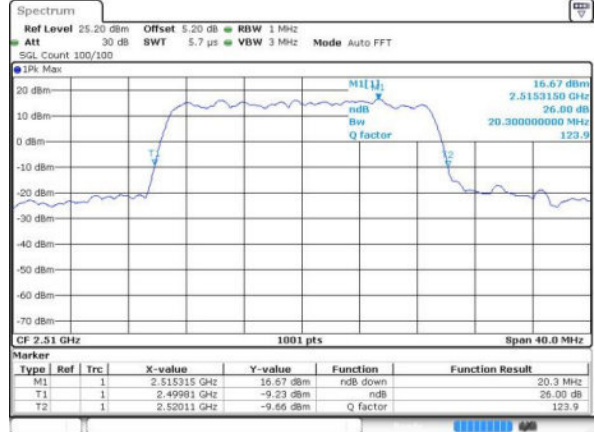
LTE Band 7

Lowest Channel / 20MHz / QPSK



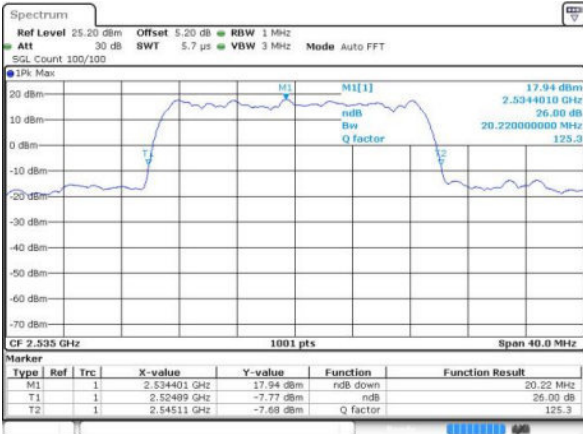
Date: 10 JUN 2016 15:49:59

Lowest Channel / 20MHz / 16QAM



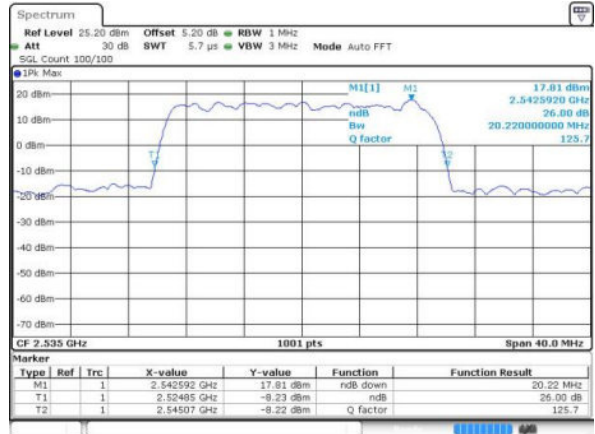
Date: 10 JUN 2016 15:49:37

Middle Channel / 20MHz / QPSK



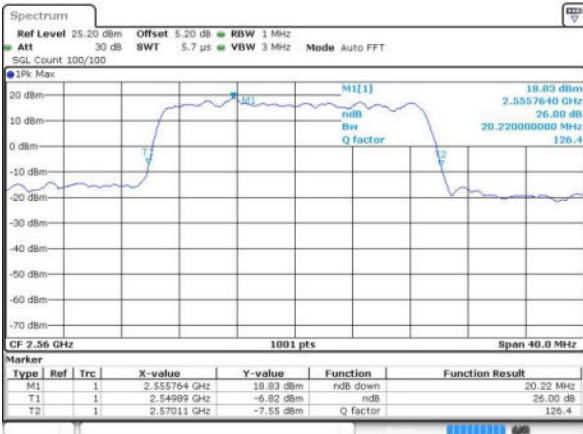
Date: 10 JUN 2016 15:50:21

Middle Channel / 20MHz / 16QAM



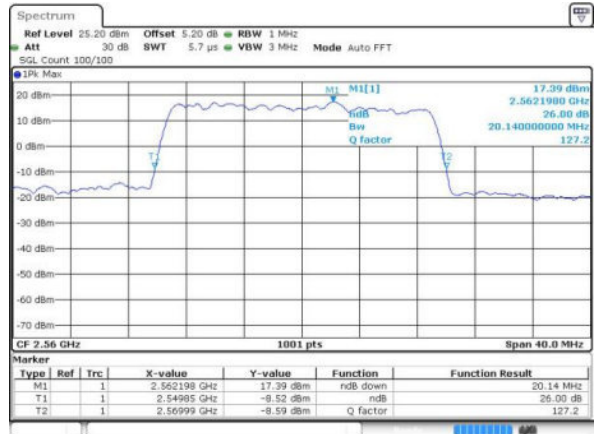
Date: 10 JUN 2016 15:50:42

Highest Channel / 20MHz / QPSK



Date: 10 JUN 2016 15:51:26

Highest Channel / 20MHz / 16QAM



Date: 10 JUN 2016 15:51:04





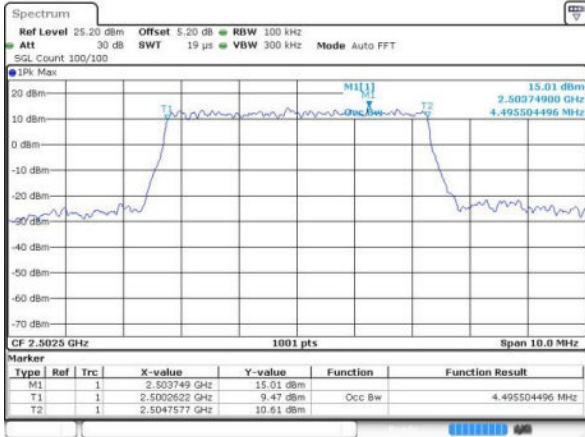
### Occupied Bandwidth

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
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.52	9.11	9.03	13.43	13.46	18.50	18.58
Middle CH	-	-	-	-	4.51	4.49	9.05	9.03	13.46	13.55	18.50	18.54
Highest CH	-	-	-	-	4.54	4.52	9.03	9.01	13.43	13.52	18.46	18.46



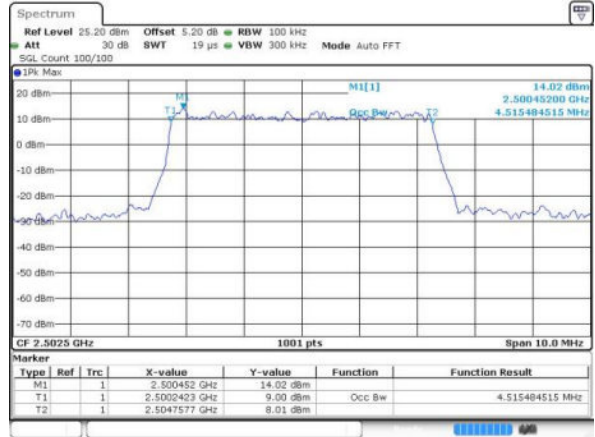
LTE Band 7

Lowest Channel / 5MHz / QPSK



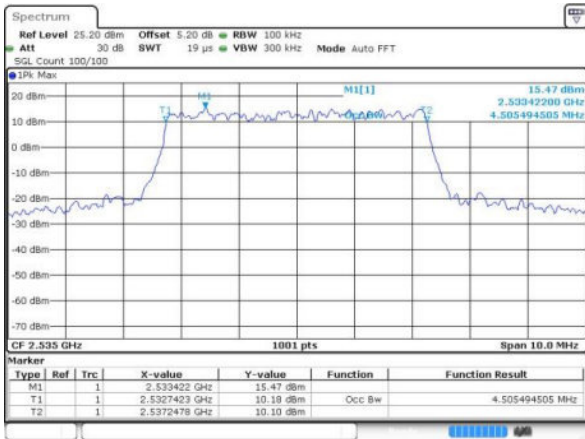
Date: 10 JUN 2016 14:58:32

Lowest Channel / 5MHz / 16QAM



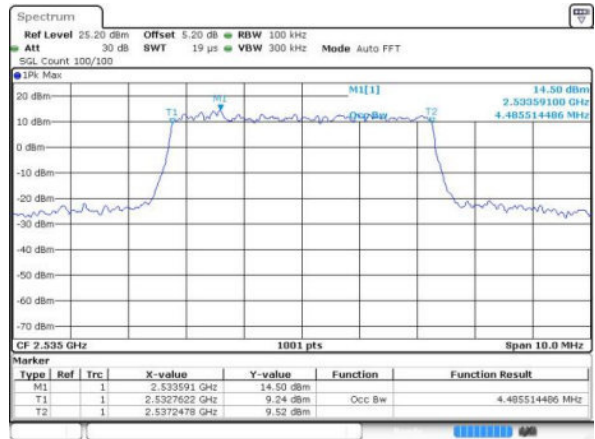
Date: 10 JUN 2016 14:58:54

Middle Channel / 5MHz / QPSK



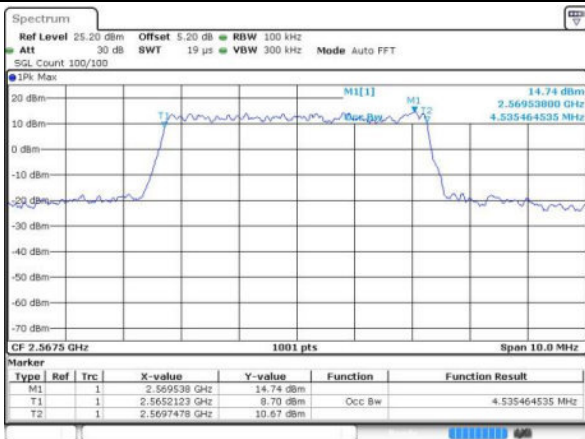
Date: 10 JUN 2016 14:59:38

Middle Channel / 5MHz / 16QAM



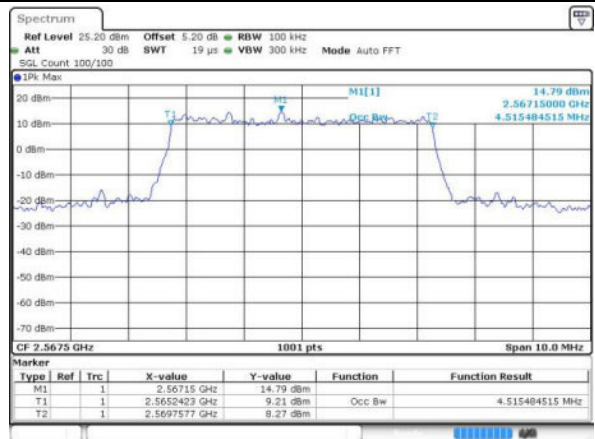
Date: 10 JUN 2016 14:59:16

Highest Channel / 5MHz / QPSK



Date: 10 JUN 2016 15:00:00

Highest Channel / 5MHz / 16QAM

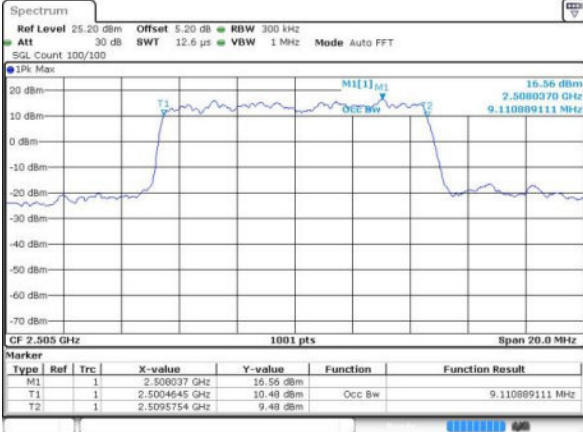


Date: 10 JUN 2016 15:00:22



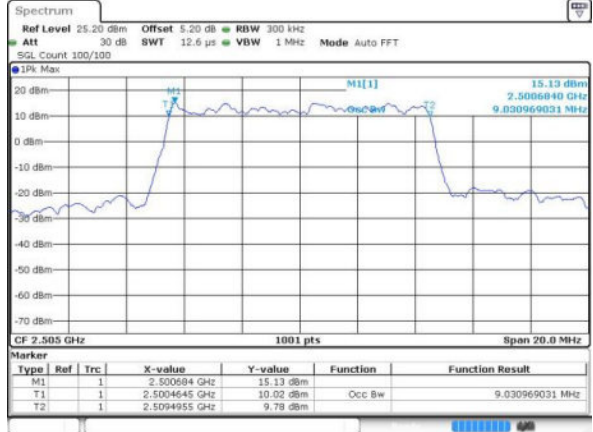
LTE Band 7

Lowest Channel / 10MHz / QPSK



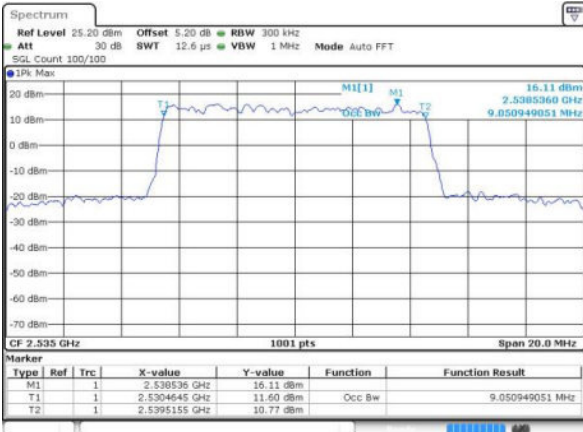
Date: 10 JUN 2016 15:15:30

Lowest Channel / 10MHz / 16QAM



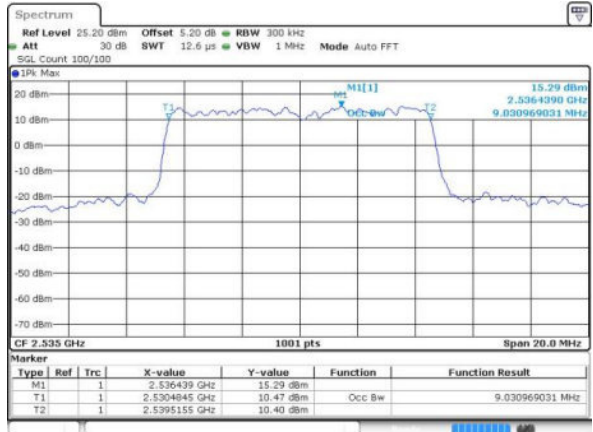
Date: 10 JUN 2016 15:15:52

Middle Channel / 10MHz / QPSK



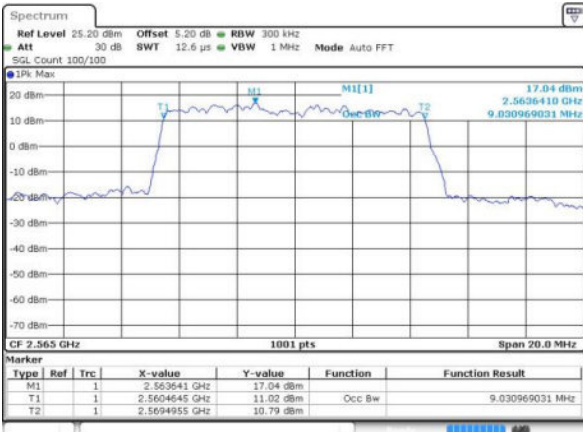
Date: 10 JUN 2016 15:16:36

Middle Channel / 10MHz / 16QAM



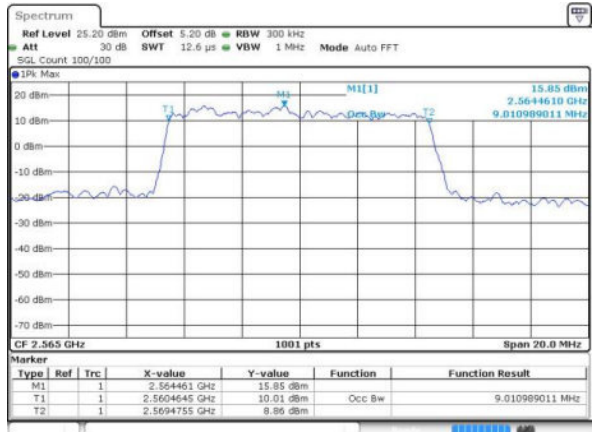
Date: 10 JUN 2016 15:16:14

Highest Channel / 10MHz / QPSK



Date: 10 JUN 2016 15:16:58

Highest Channel / 10MHz / 16QAM

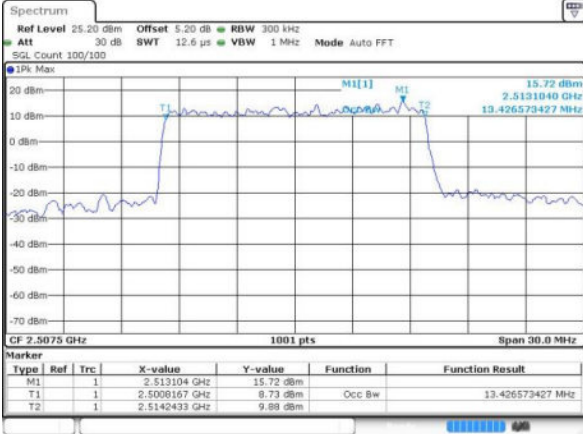


Date: 10 JUN 2016 15:17:20



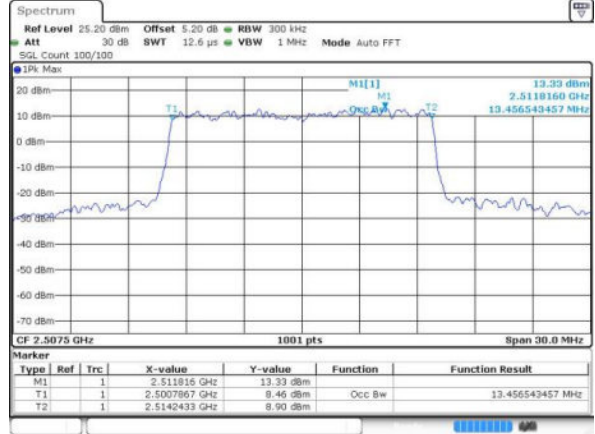
LTE Band 7

Lowest Channel / 15MHz / QPSK



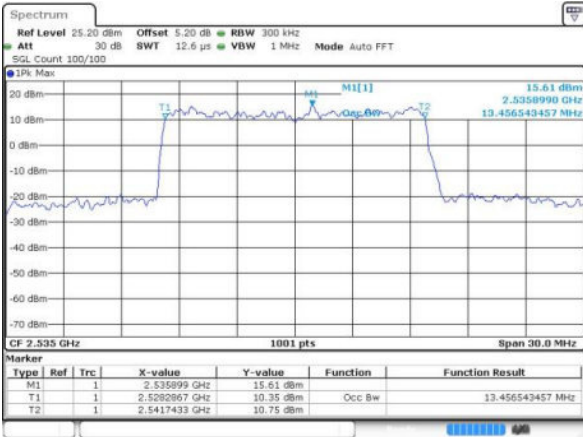
Date: 10 JUN 2016 15:32:50

Lowest Channel / 15MHz / 16QAM



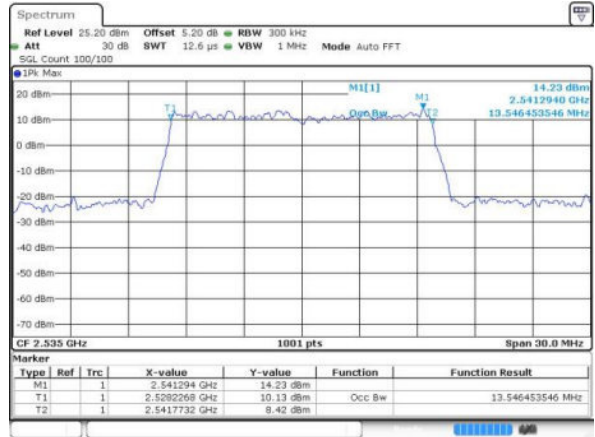
Date: 10 JUN 2016 15:32:28

Middle Channel / 15MHz / QPSK



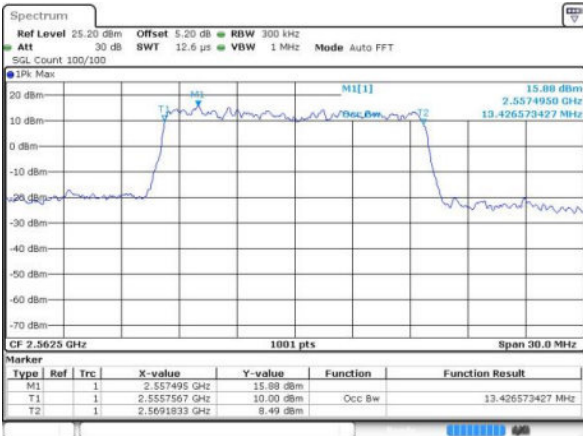
Date: 10 JUN 2016 15:33:12

Middle Channel / 15MHz / 16QAM



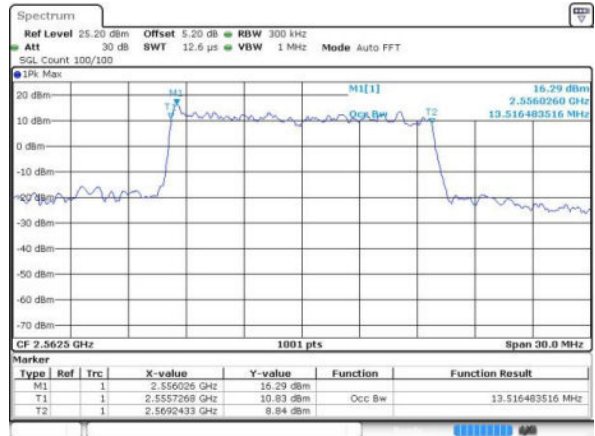
Date: 10 JUN 2016 15:33:34

Highest Channel / 15MHz / QPSK



Date: 10 JUN 2016 15:34:18

Highest Channel / 15MHz / 16QAM



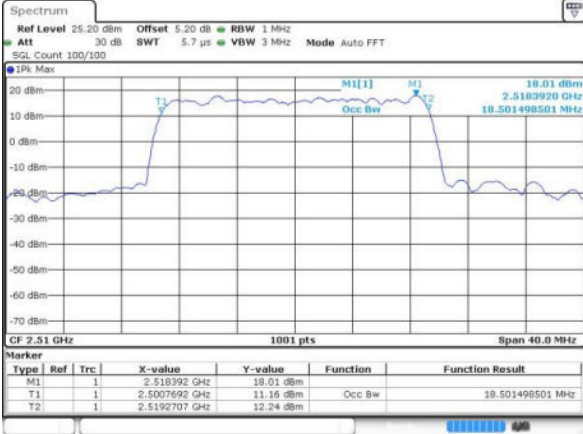
Date: 10 JUN 2016 15:33:56





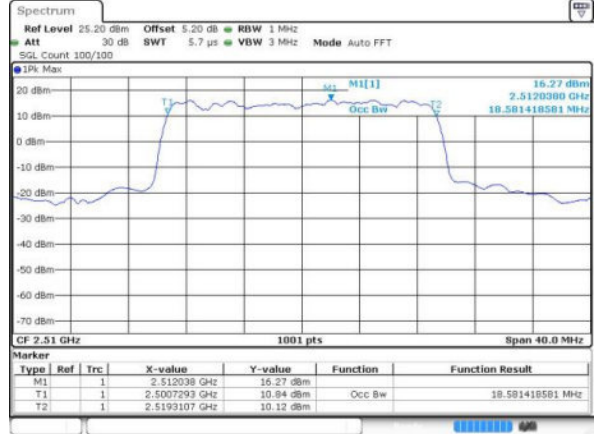
LTE Band 7

Lowest Channel / 20MHz / QPSK



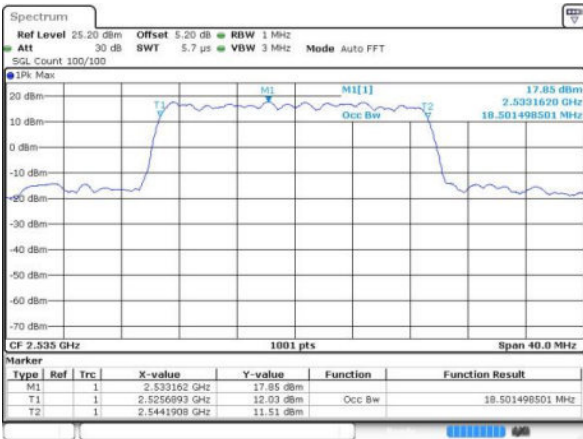
Date: 10 JUN 2016 15:49:48

Lowest Channel / 20MHz / 16QAM



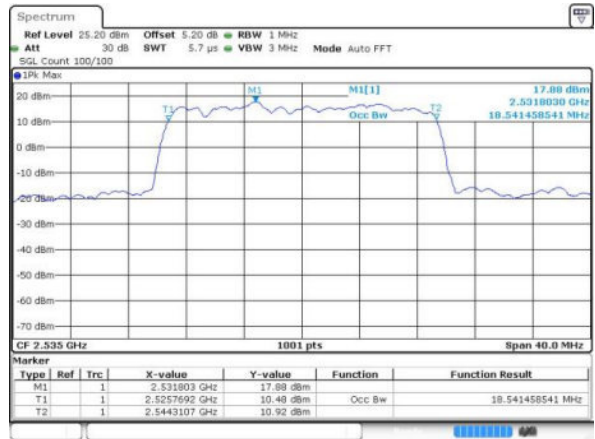
Date: 10 JUN 2016 15:49:26

Middle Channel / 20MHz / QPSK



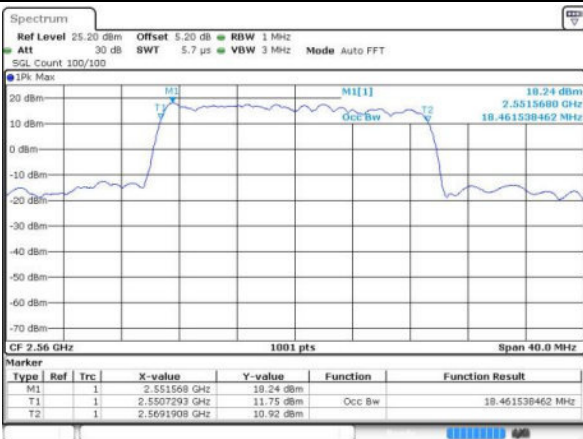
Date: 10 JUN 2016 15:50:10

Middle Channel / 20MHz / 16QAM



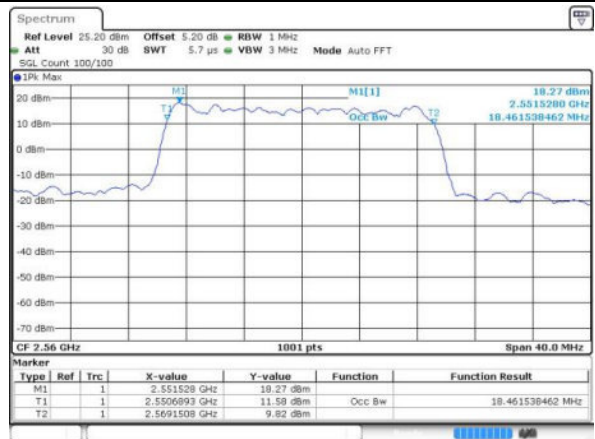
Date: 10 JUN 2016 15:50:32

Highest Channel / 20MHz / QPSK



Date: 10 JUN 2016 15:51:15

Highest Channel / 20MHz / 16QAM



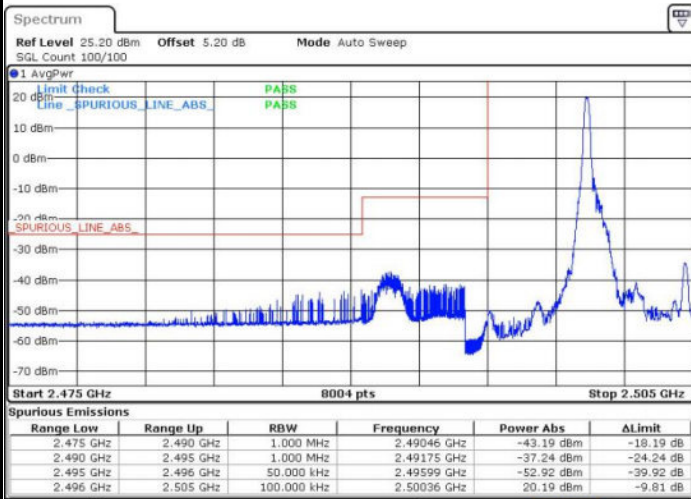
Date: 10 JUN 2016 15:50:53



# Conducted Band Edge

## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



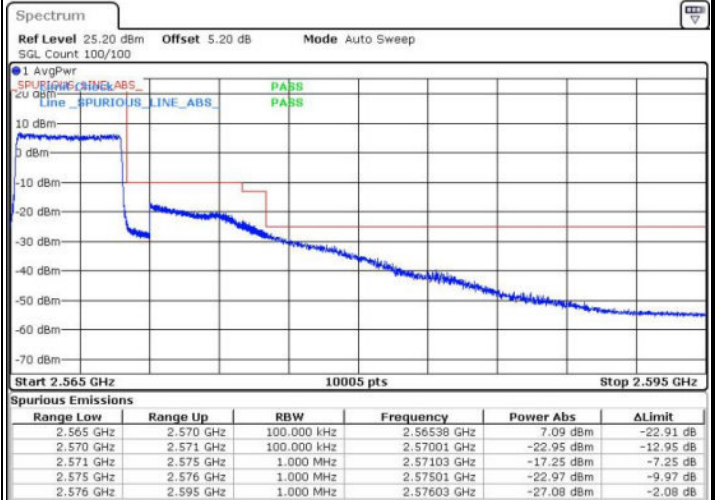
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



### Highest Band Edge / Full RB





LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



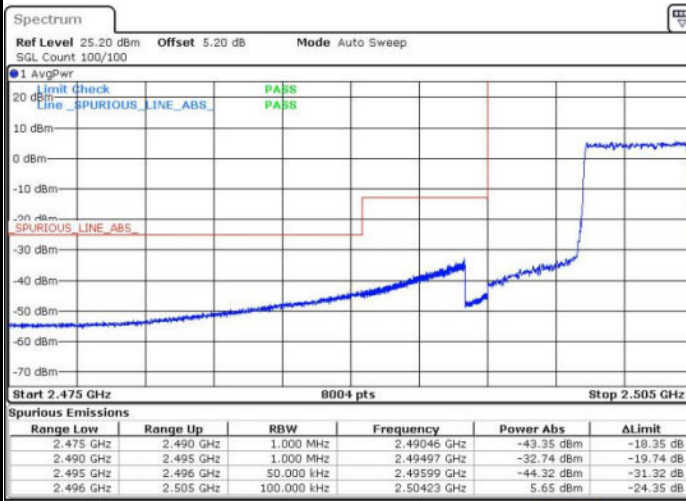
Date: 10 JUN 2016 15:02:52

Highest Band Edge / 1 RB



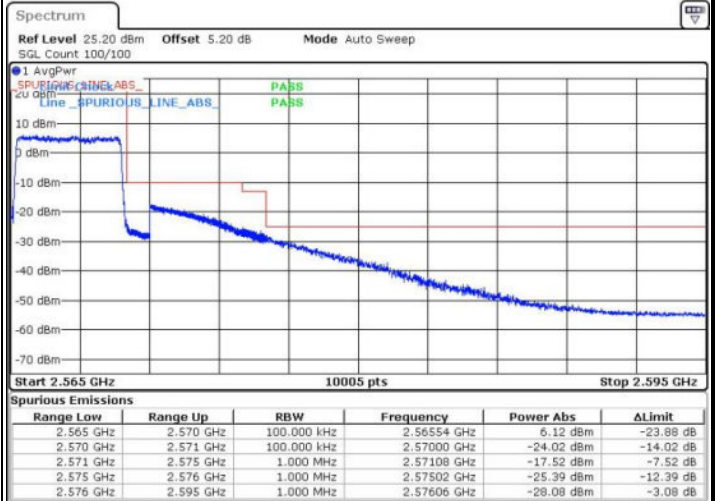
Date: 10 JUN 2016 15:08:39

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:04:02

Highest Band Edge / Full RB

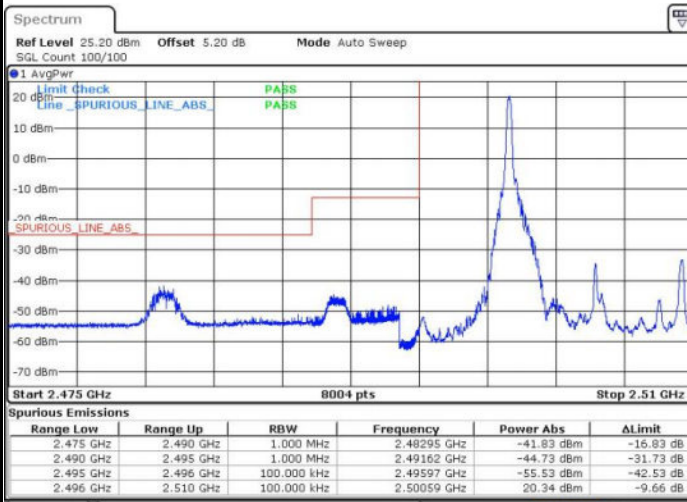


Date: 10 JUN 2016 15:07:30



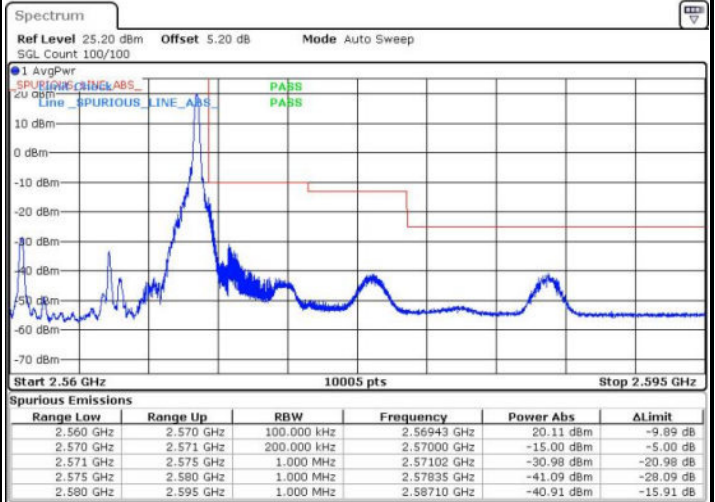
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



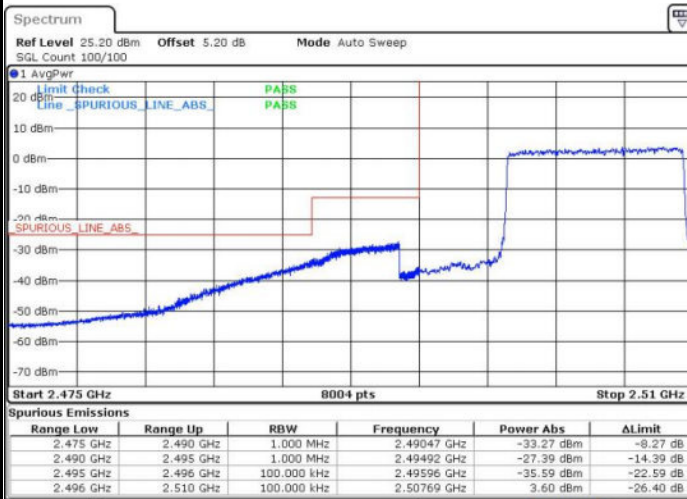
Date: 10 JUN 2016 15:18:40

Highest Band Edge / 1 RB



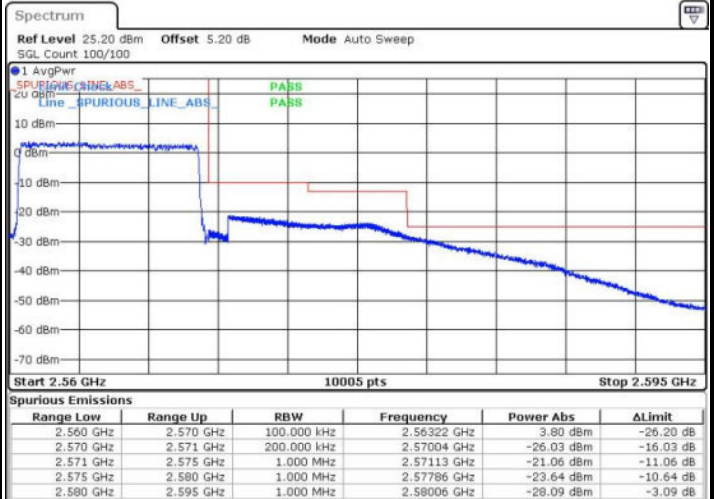
Date: 10 JUN 2016 15:26:45

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:22:08

Highest Band Edge / Full RB



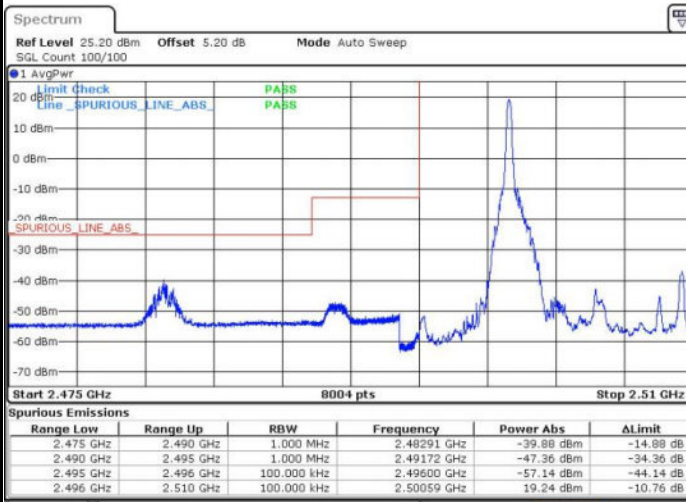
Date: 10 JUN 2016 15:23:17





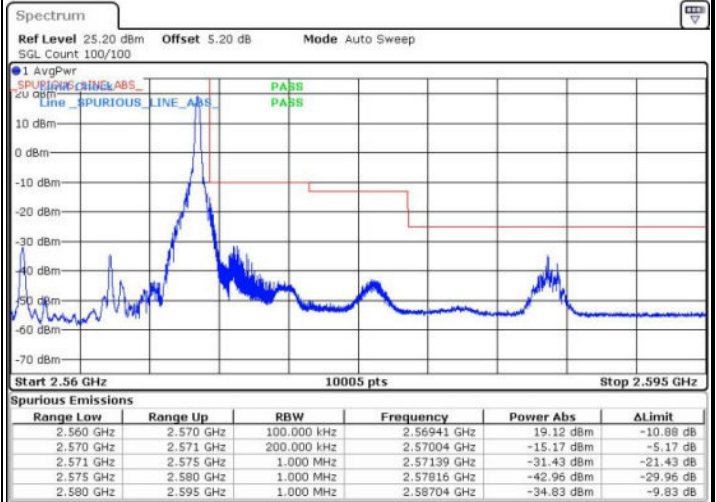
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



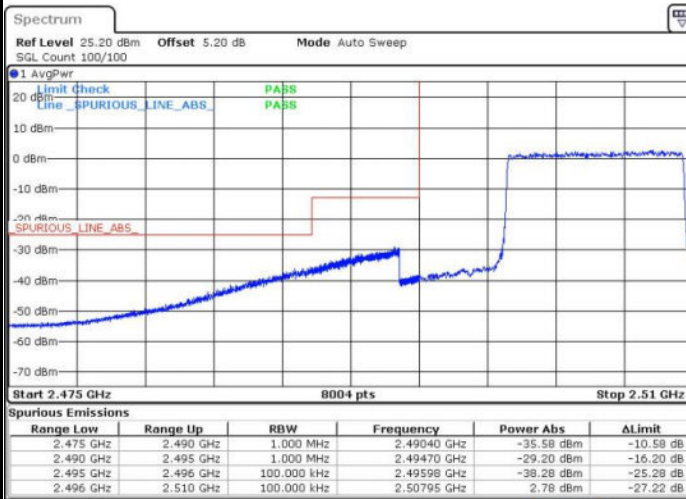
Date: 10 JUN 2016 15:19:49

Highest Band Edge / 1 RB



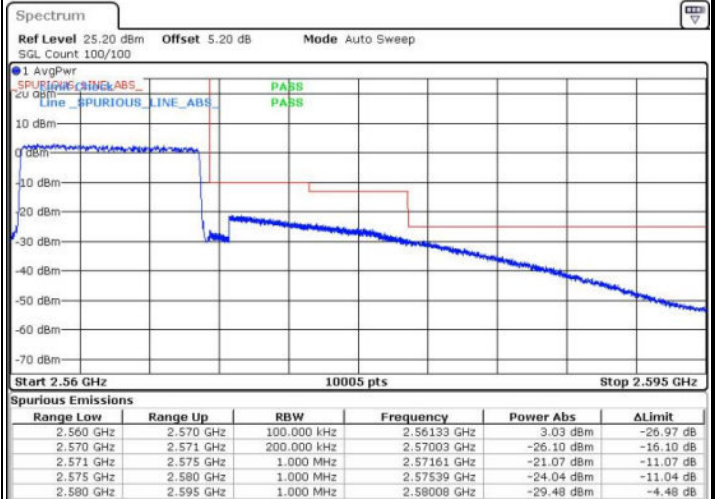
Date: 10 JUN 2016 15:25:36

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:20:59

Highest Band Edge / Full RB



Date: 10 JUN 2016 15:24:26