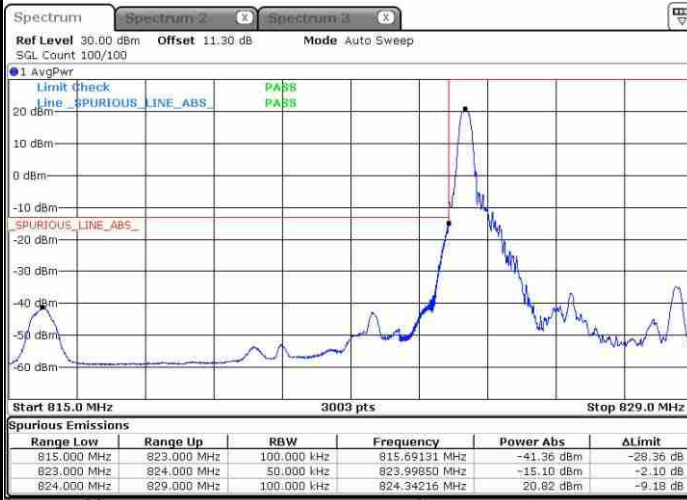




LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



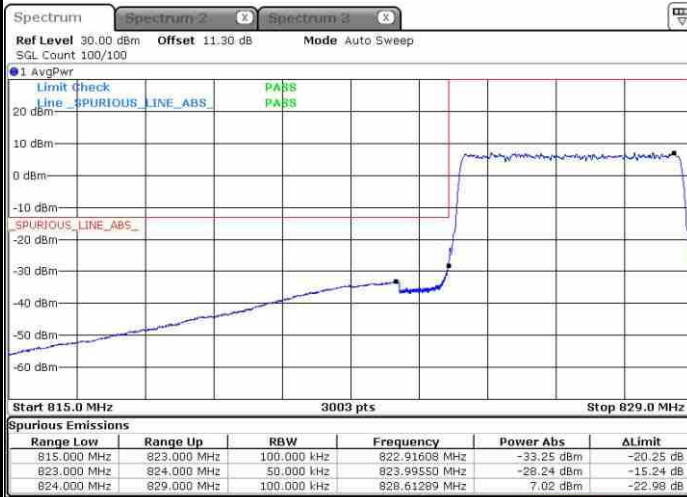
Date: 22.FEB.2016 23:05:16

Highest Band Edge / 1 RB



Date: 22.FEB.2016 23:18:28

Lowest Band Edge / Full RB



Date: 22.FEB.2016 23:09:21

Highest Band Edge / Full RB

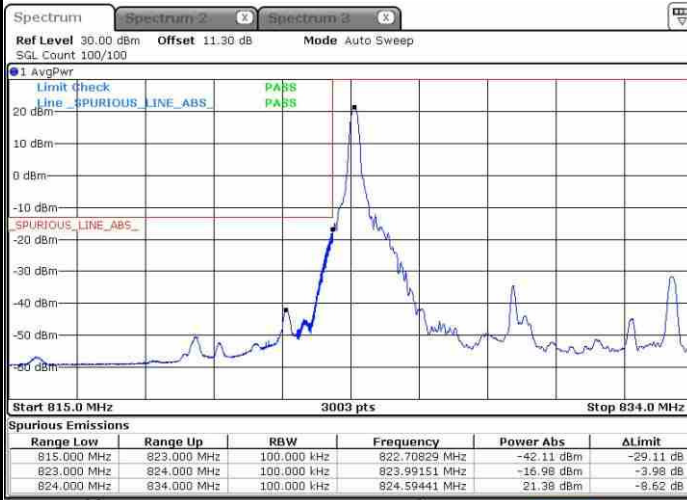


Date: 22.FEB.2016 23:22:32



LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



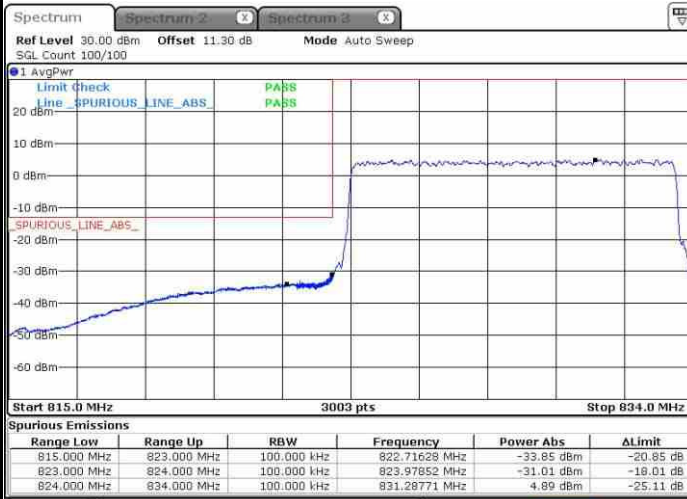
Date: 22.FEB.2016 23:27:06

Highest Band Edge / 1 RB



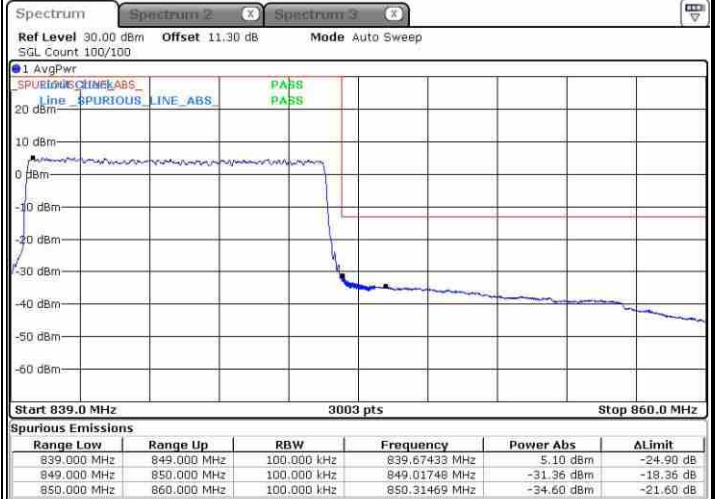
Date: 22.FEB.2016 23:40:17

Lowest Band Edge / Full RB



Date: 22.FEB.2016 23:31:10

Highest Band Edge / Full RB

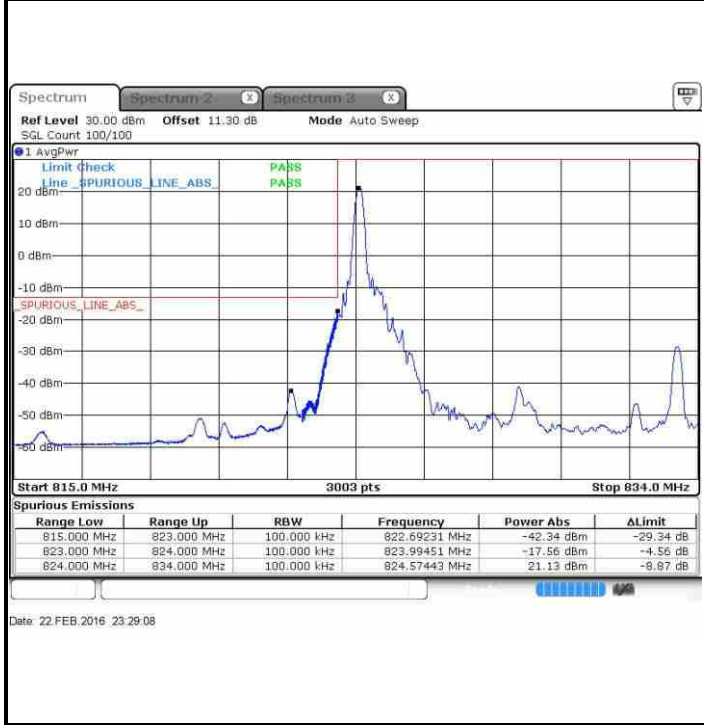


Date: 22.FEB.2016 23:44:22

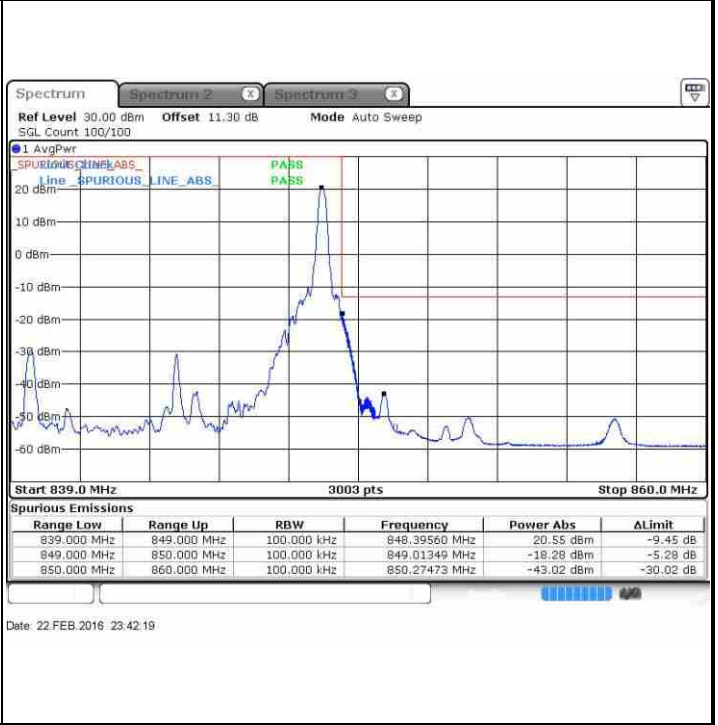


**LTE Band 5 / 10MHz / 16QAM**

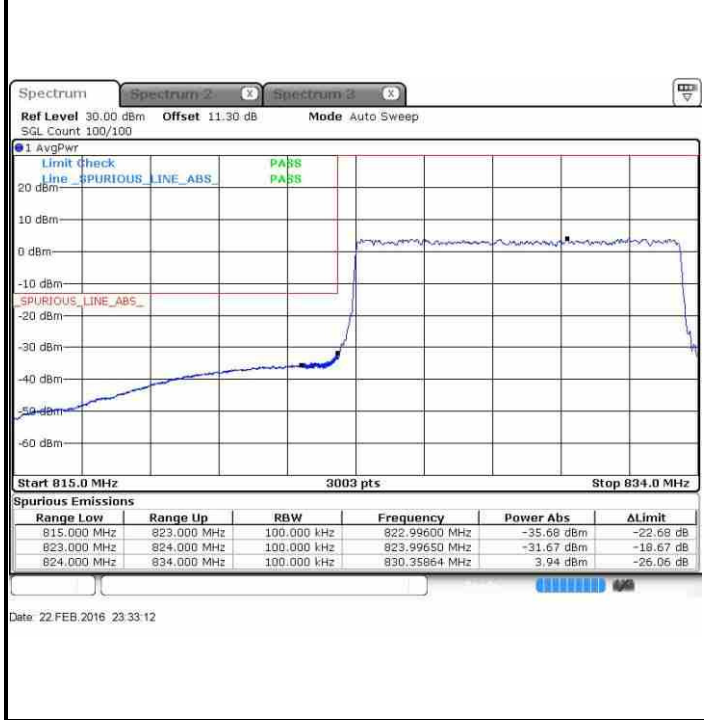
**Lowest Band Edge / 1 RB**



**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



**Highest Band Edge / Full RB**





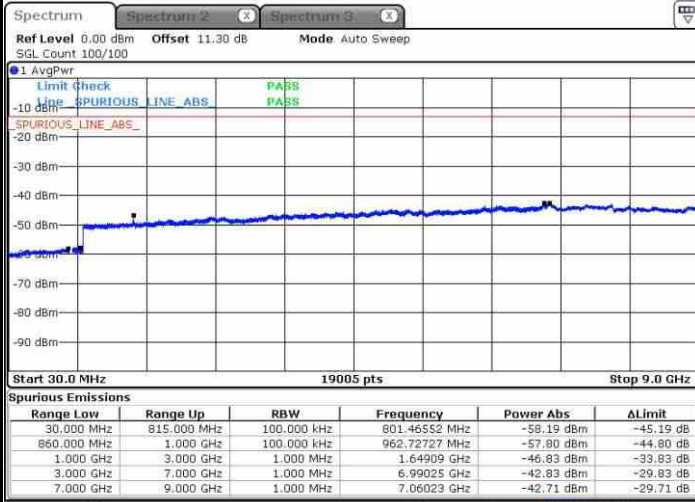
**Conducted Spurious Emission**





LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



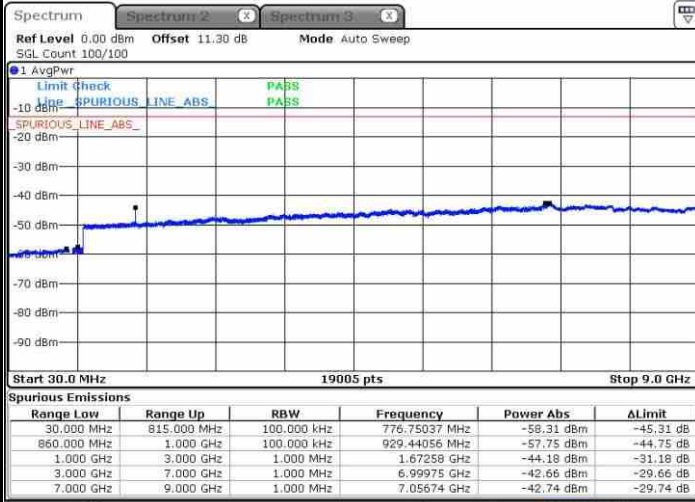
Date: 22 FEB 2016 23:57:59

Lowest Channel / 16QAM



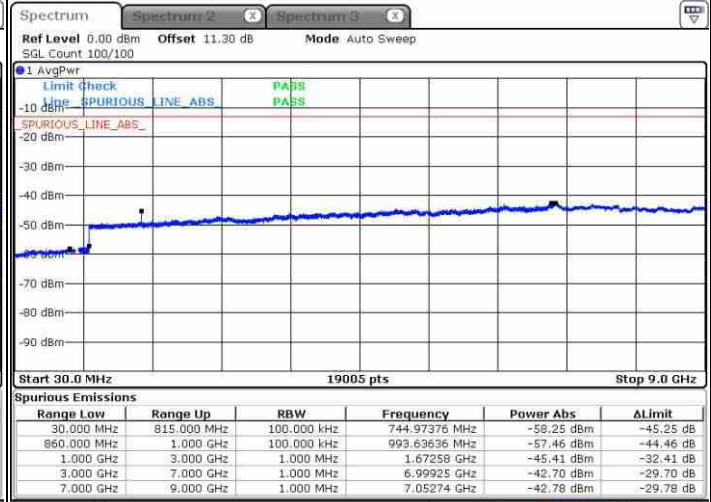
Date: 22 FEB 2016 23:58:53

Middle Channel / QPSK



Date: 23 FEB 2016 00:00:30

Middle Channel / 16QAM

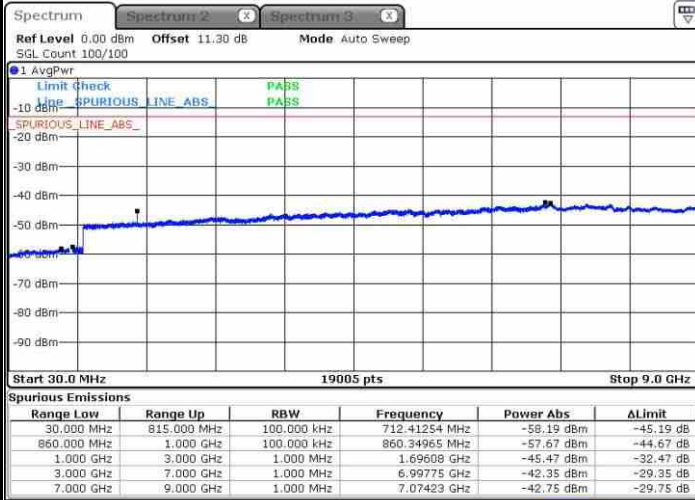


Date: 23 FEB 2016 00:01:24



LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 23 FEB 2016 00:11:10

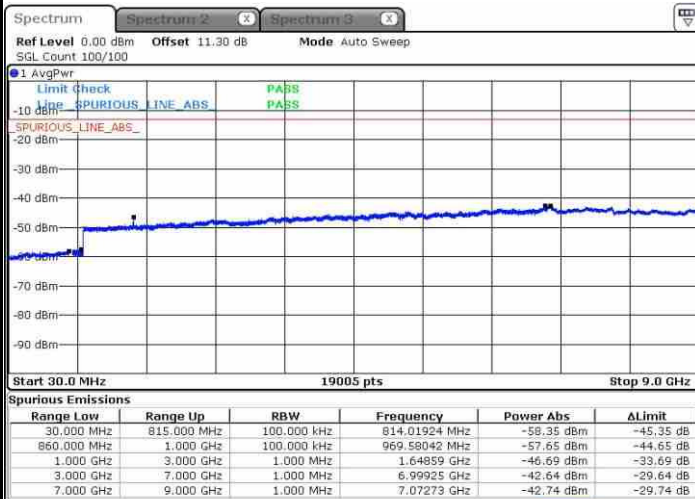
Highest Channel / 16QAM



Date: 23 FEB 2016 00:12:04

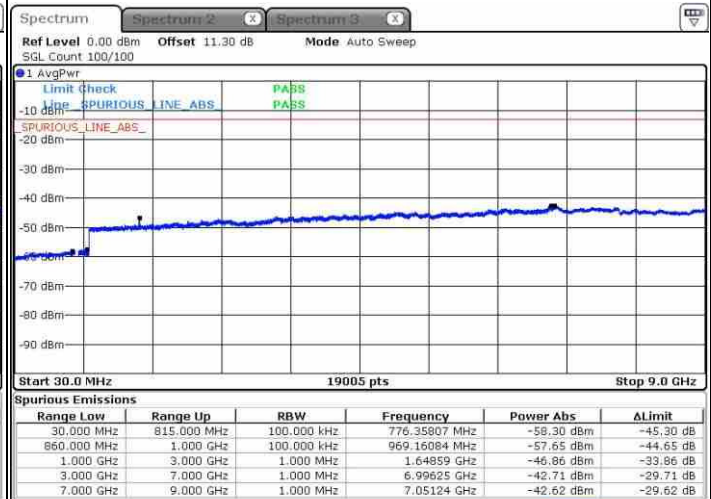
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 22 FEB 2016 22:46:25

Lowest Channel / 16QAM



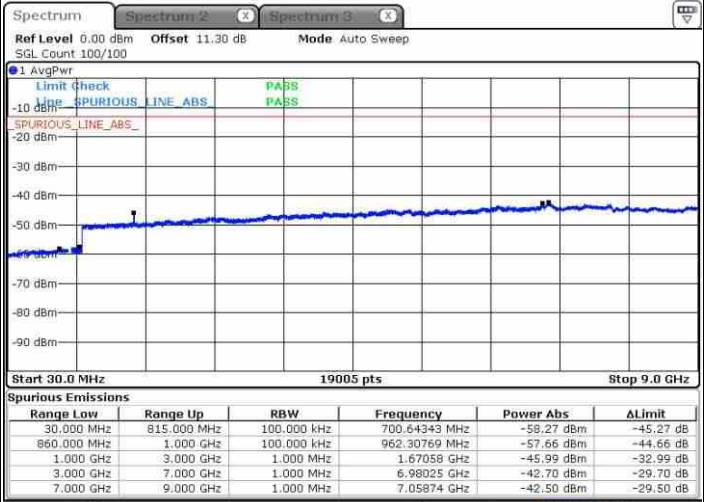
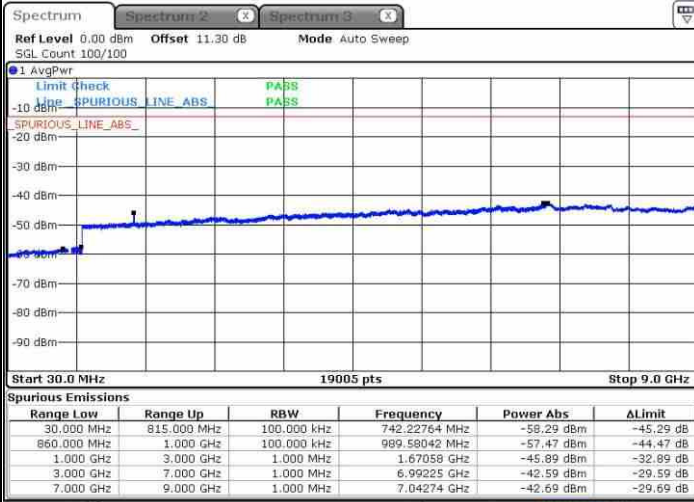
Date: 22 FEB 2016 22:47:19



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

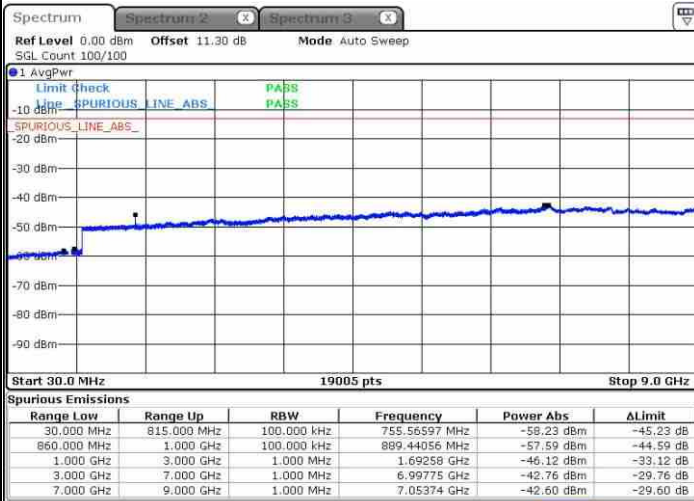


Date: 22 FEB 2016 22:48:56

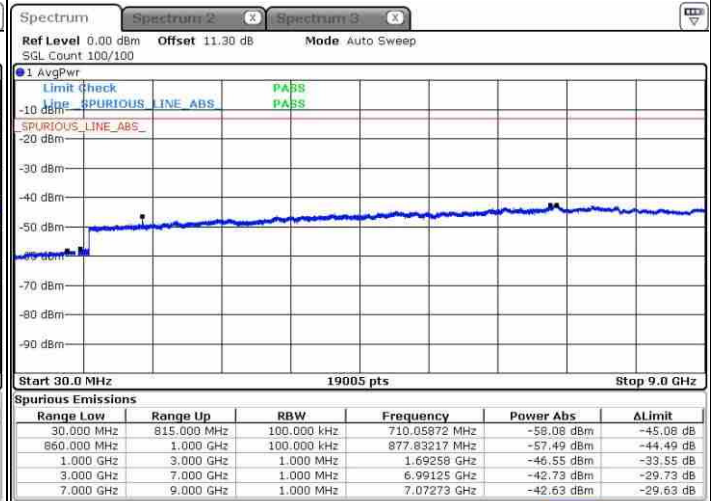
Date: 22 FEB 2016 22:49:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 FEB 2016 22:59:36

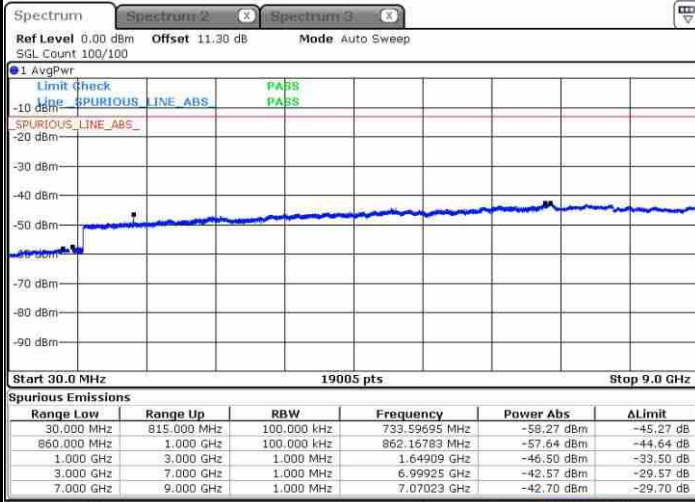


Date: 22 FEB 2016 23:00:30



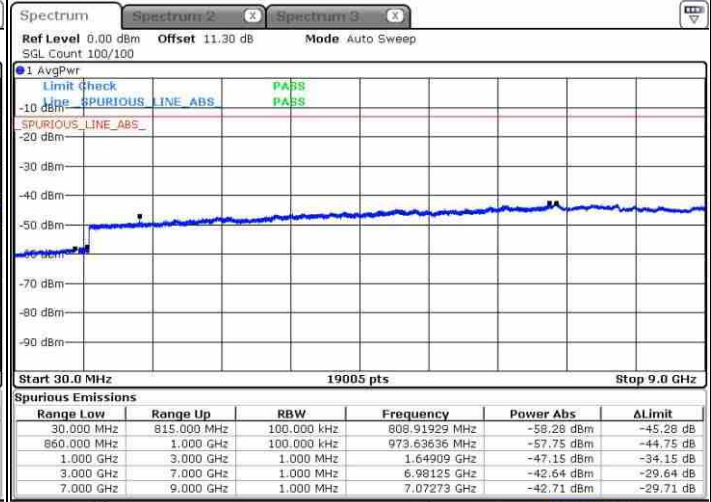
LTE Band 5 / 5MHz

Lowest Channel / QPSK



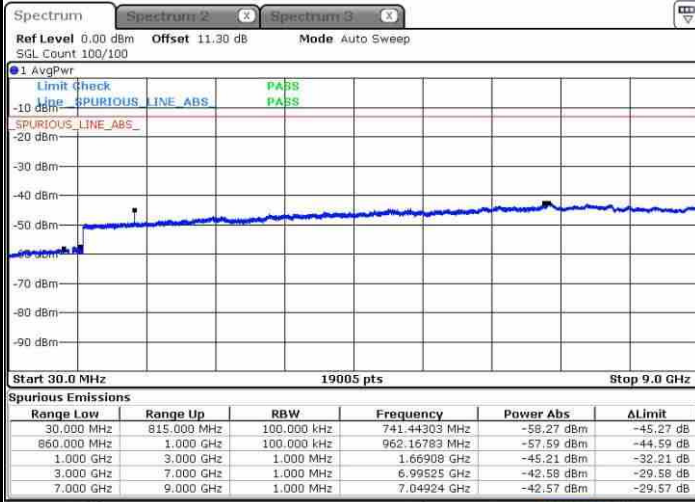
Date: 22 FEB 2016 23:10:16

Lowest Channel / 16QAM



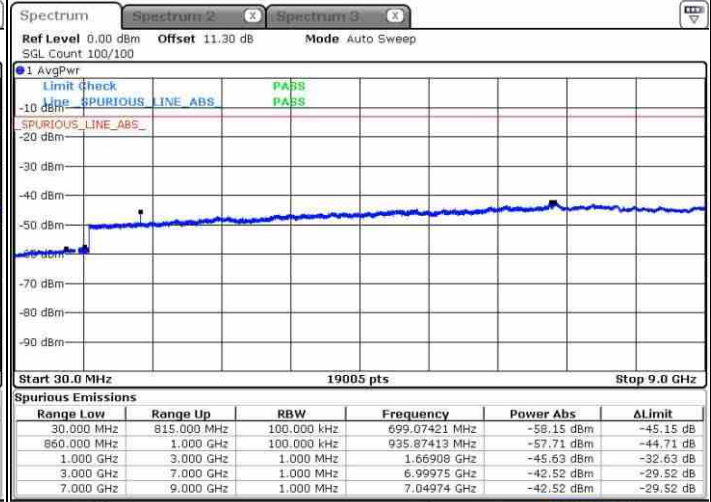
Date: 22 FEB 2016 23:11:10

Middle Channel / QPSK



Date: 22 FEB 2016 23:12:47

Middle Channel / 16QAM



Date: 22 FEB 2016 23:13:41



LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 22 FEB 2016 23:23:27

Highest Channel / 16QAM



Date: 22 FEB 2016 23:24:22

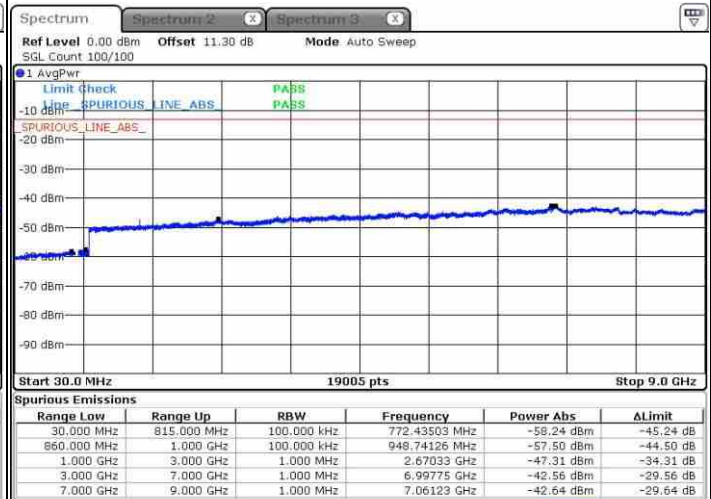
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 22 FEB 2016 23:34:07

Lowest Channel / 16QAM



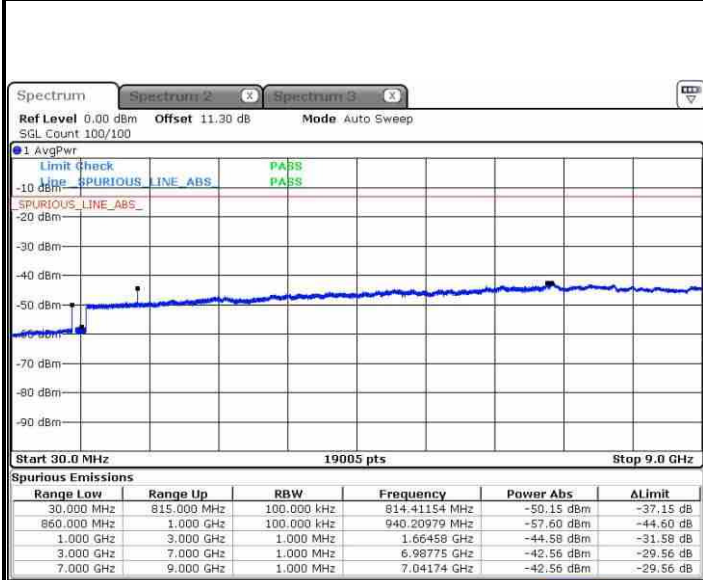
Date: 22 FEB 2016 23:35:02





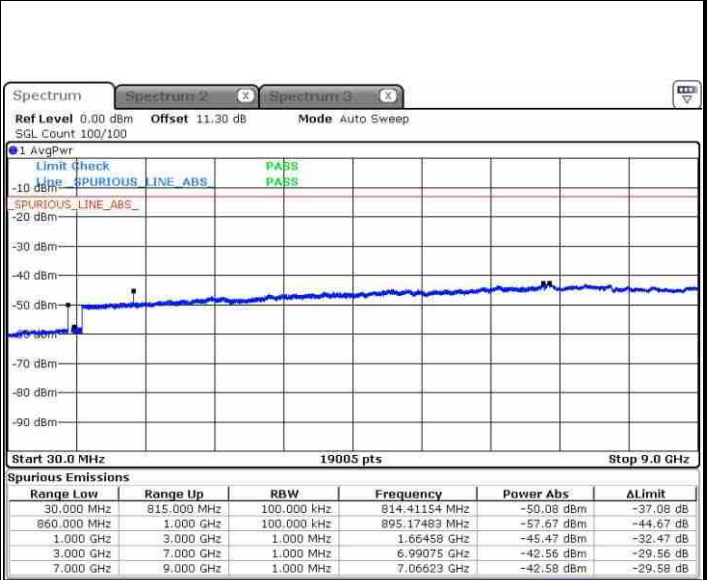
LTE Band 5 / 10MHz

Middle Channel / QPSK



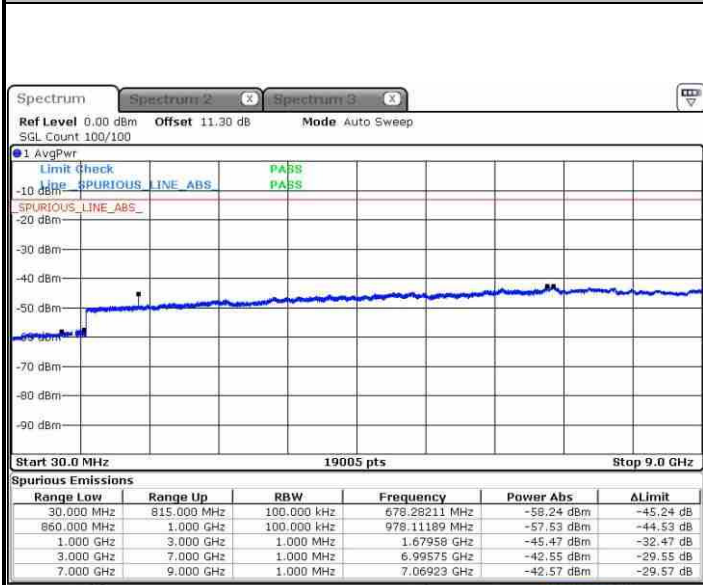
Date: 22 FEB 2016 23:36:38

Middle Channel / 16QAM



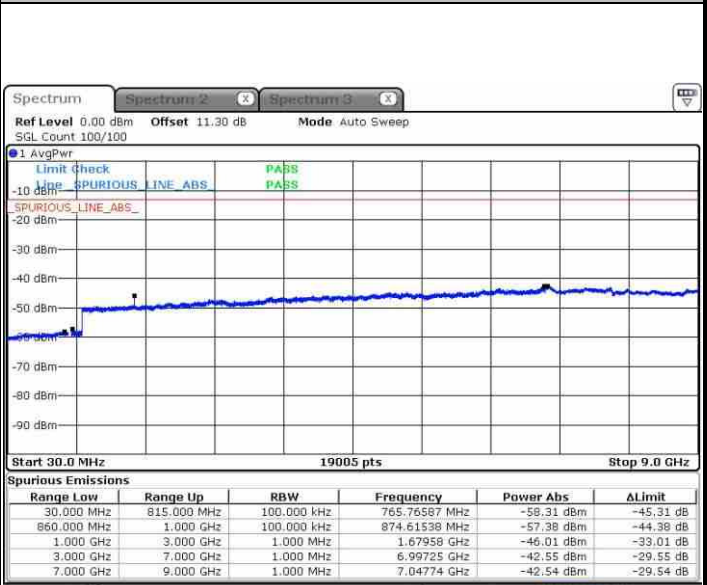
Date: 22 FEB 2016 23:37:33

Highest Channel / QPSK



Date: 22 FEB 2016 23:47:19

Highest Channel / 16QAM



Date: 22 FEB 2016 23:48:13



**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	0.0005	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## 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	3.59	5.07	4.26	5.97	PASS
Middle CH	3.83	4.96	5.1	5.91	
Highest CH	3.57	5.13	4.61	5.94	



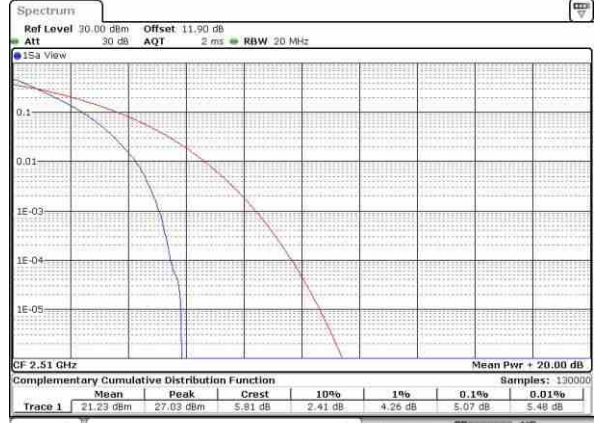
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



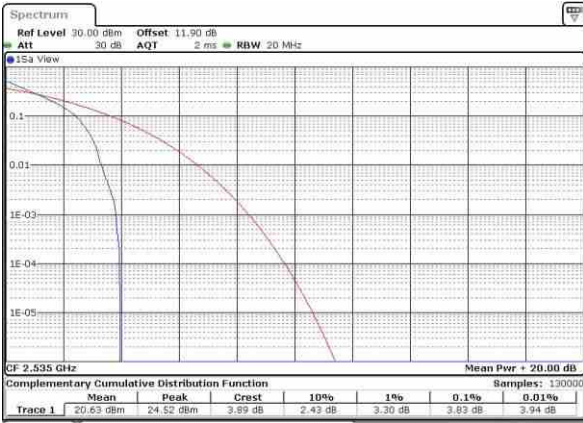
Date: 25 MAR 2016 21:57:04

Lowest Channel / Full RB



Date: 25 MAR 2016 21:57:15

Middle Channel / 1RB



Date: 25 MAR 2016 21:57:26

Middle Channel / Full RB



Date: 25 MAR 2016 21:57:37

Highest Channel / 1RB



Date: 25 MAR 2016 21:57:48

Highest Channel / Full RB



Date: 25 MAR 2016 21:57:58



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 25 MAR 2016 21:56:02

Lowest Channel / Full RB



Date: 25 MAR 2016 21:56:12

Middle Channel / 1RB



Date: 25 MAR 2016 21:56:21

Middle Channel / Full RB



Date: 25 MAR 2016 21:56:32

Highest Channel / 1RB



Date: 25 MAR 2016 21:56:43

Highest Channel / Full RB



Date: 25 MAR 2016 21:56:53





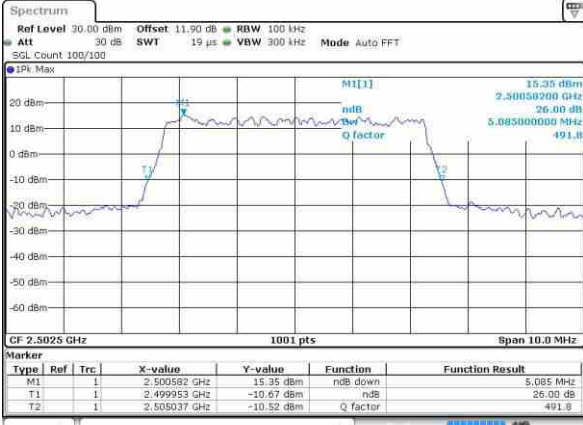
**26dB Bandwidth**

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
Lowest CH	-	-	-	-	5.09	5.01	9.95	9.91	14.3	14.9	20.3	20.18
Middle CH	-	-	-	-	5.02	5	9.99	9.79	14.21	14.45	20.14	20.1
Highest CH	-	-	-	-	5.01	4.96	9.81	9.89	14.48	14.33	20.14	20.46



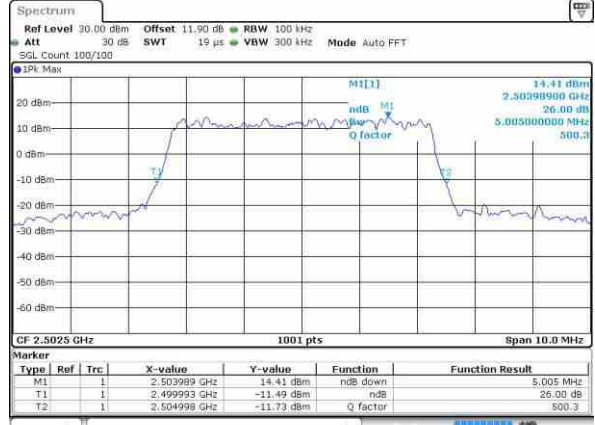
LTE Band 7

Lowest Channel / 5MHz / QPSK



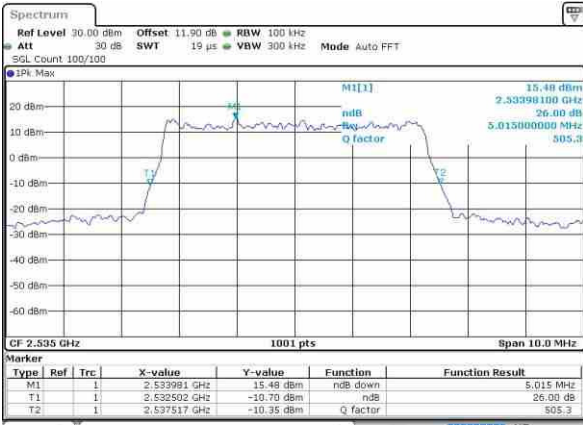
Date: 25 MAR 2016 20:59:47

Lowest Channel / 5MHz / 16QAM



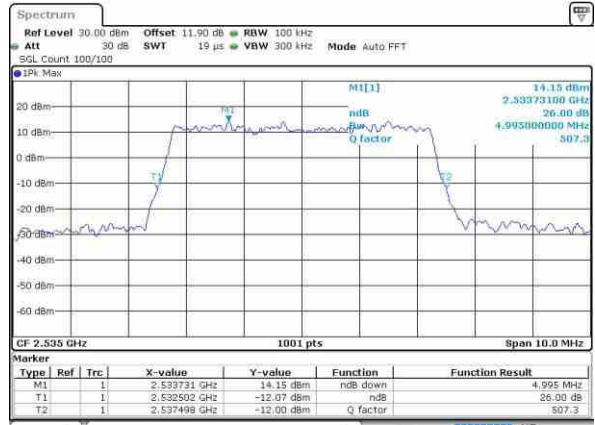
Date: 25 MAR 2016 20:59:57

Middle Channel / 5MHz / QPSK



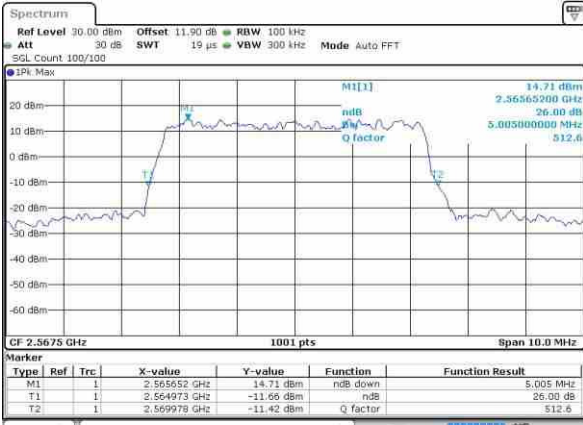
Date: 25 MAR 2016 21:06:56

Middle Channel / 5MHz / 16QAM



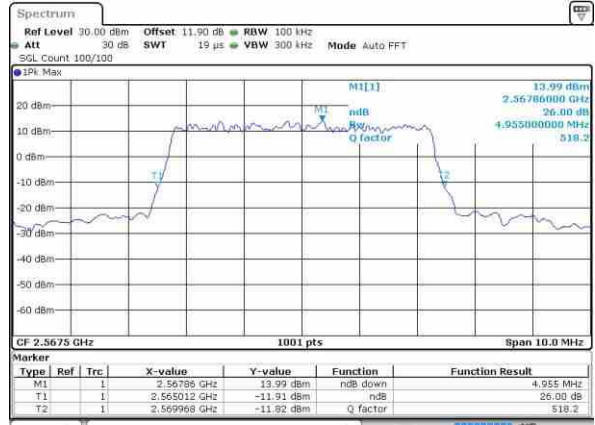
Date: 25 MAR 2016 21:07:06

Highest Channel / 5MHz / QPSK



Date: 25 MAR 2016 21:09:25

Highest Channel / 5MHz / 16QAM

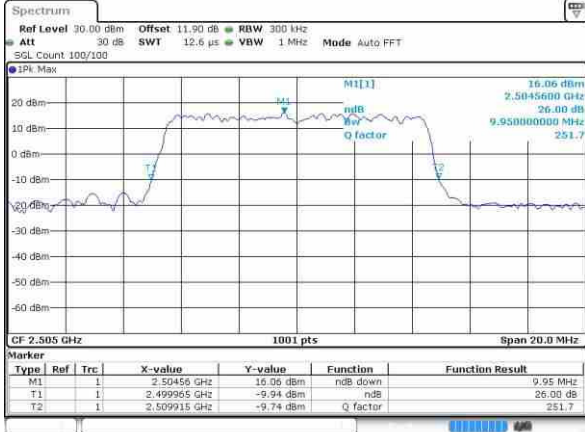


Date: 25 MAR 2016 21:09:36



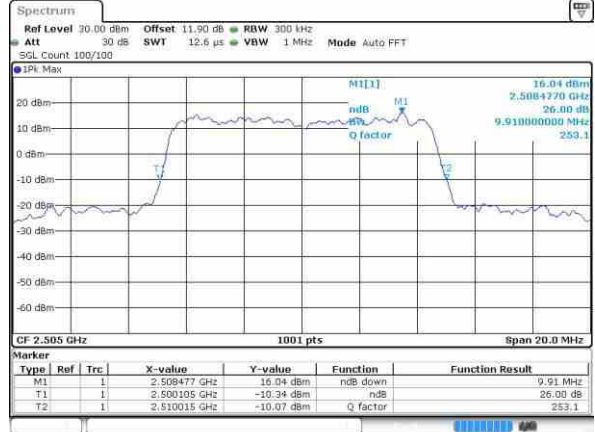
LTE Band 7

Lowest Channel / 10MHz / QPSK



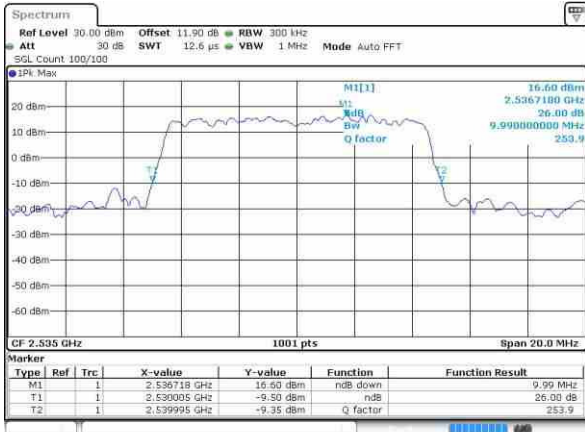
Date: 25 MAR 2016 21:16:34

Lowest Channel / 10MHz / 16QAM



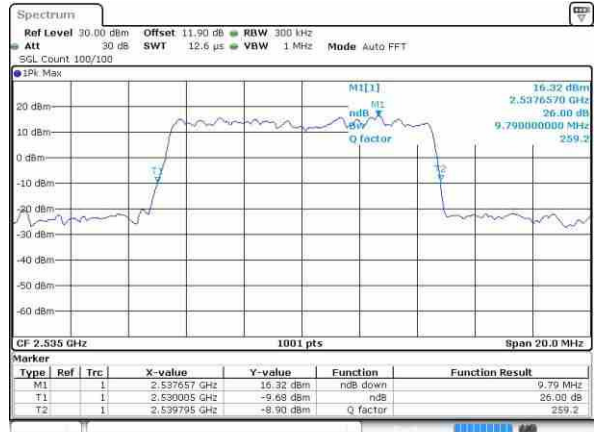
Date: 25 MAR 2016 21:16:45

Middle Channel / 10MHz / QPSK



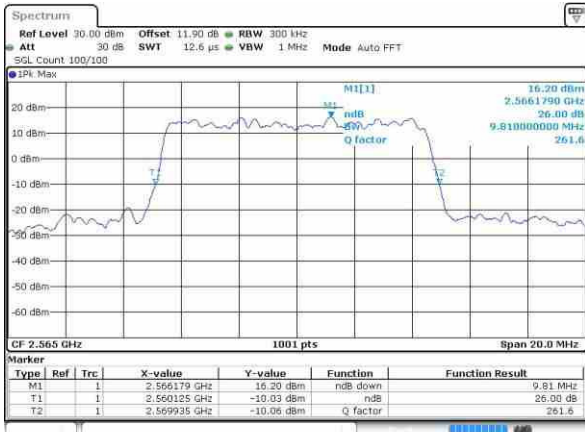
Date: 25 MAR 2016 21:23:45

Middle Channel / 10MHz / 16QAM



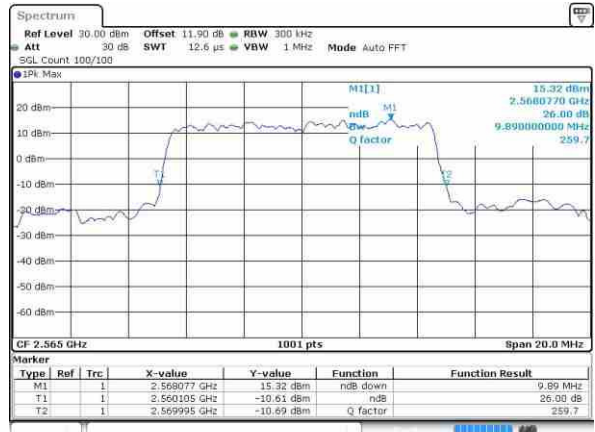
Date: 25 MAR 2016 21:23:55

Highest Channel / 10MHz / QPSK



Date: 25 MAR 2016 21:26:15

Highest Channel / 10MHz / 16QAM

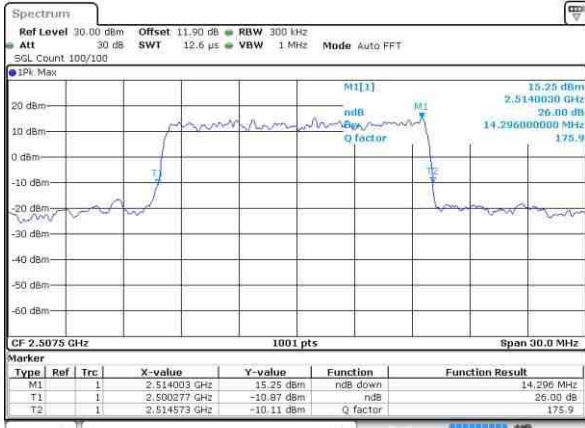


Date: 25 MAR 2016 21:26:26



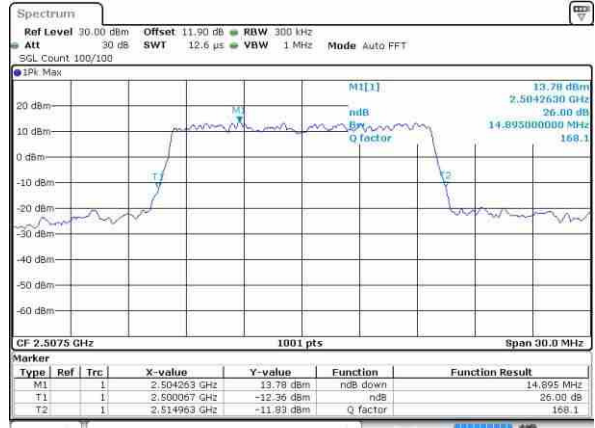
LTE Band 7

Lowest Channel / 15MHz / QPSK



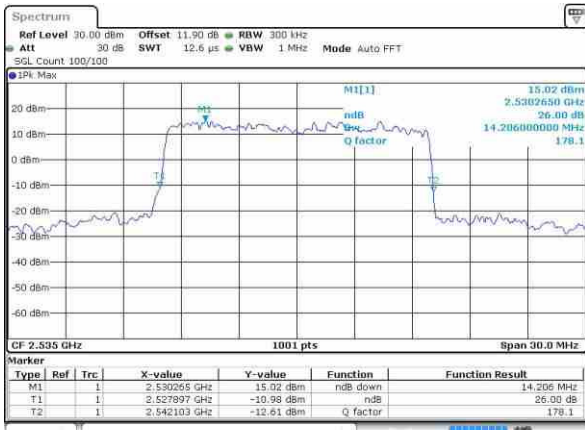
Date: 25 MAR 2016 21:33:27

Lowest Channel / 15MHz / 16QAM



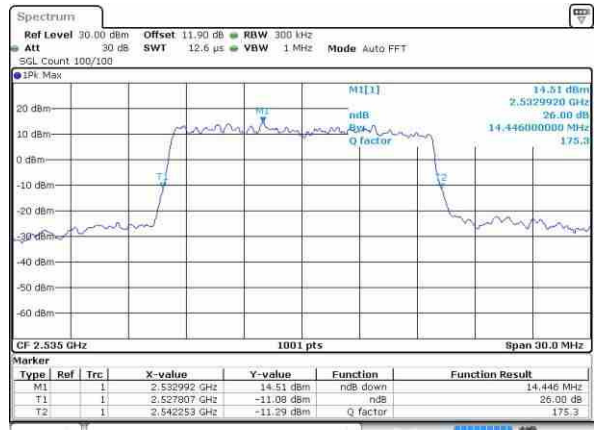
Date: 25 MAR 2016 21:33:37

Middle Channel / 15MHz / QPSK



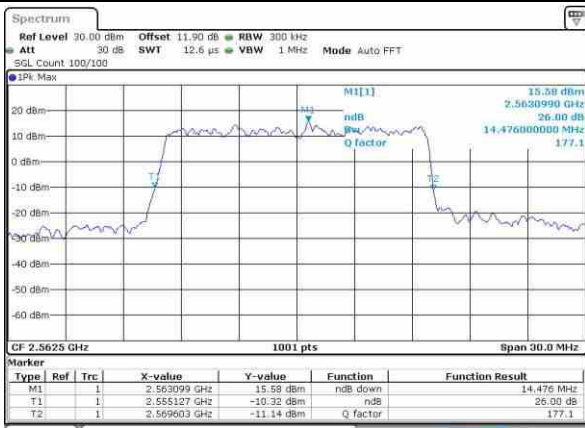
Date: 25 MAR 2016 21:38:50

Middle Channel / 15MHz / 16QAM



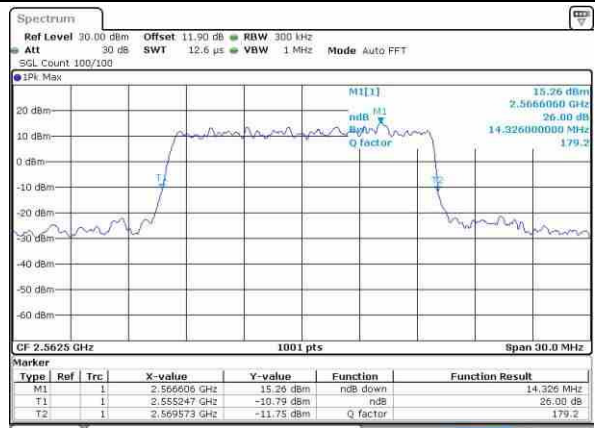
Date: 25 MAR 2016 21:39:00

Highest Channel / 15MHz / QPSK



Date: 25 MAR 2016 21:39:32

Highest Channel / 15MHz / 16QAM

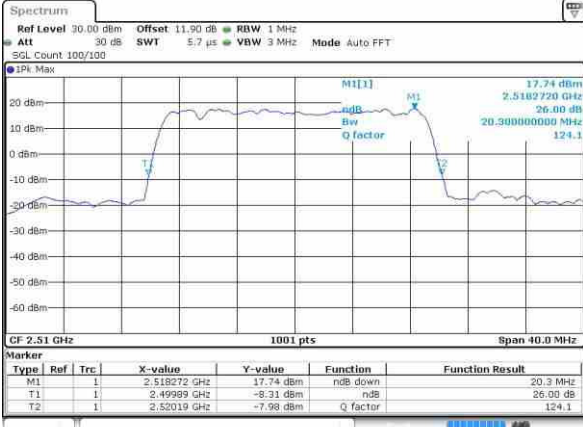


Date: 25 MAR 2016 21:39:43



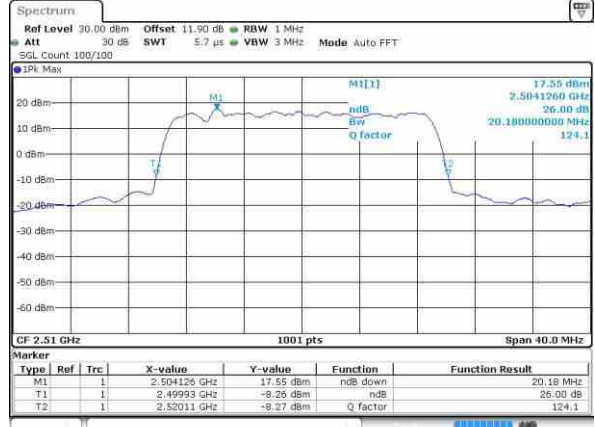
LTE Band 7

Lowest Channel / 20MHz / QPSK



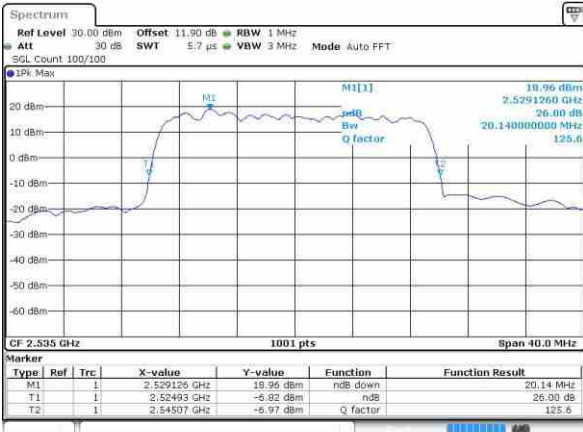
Date: 25 MAR 2016 21:44:55

Lowest Channel / 20MHz / 16QAM



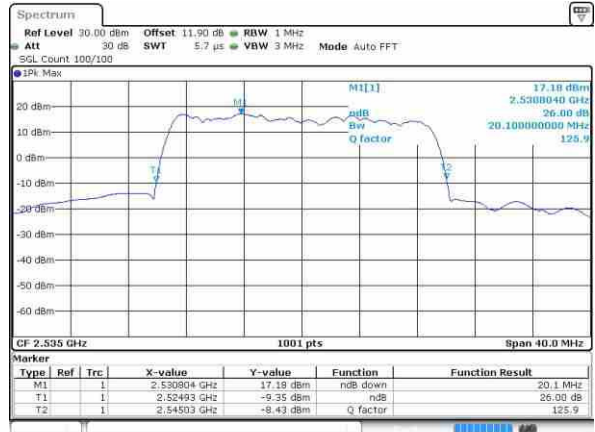
Date: 25 MAR 2016 21:45:06

Middle Channel / 20MHz / QPSK



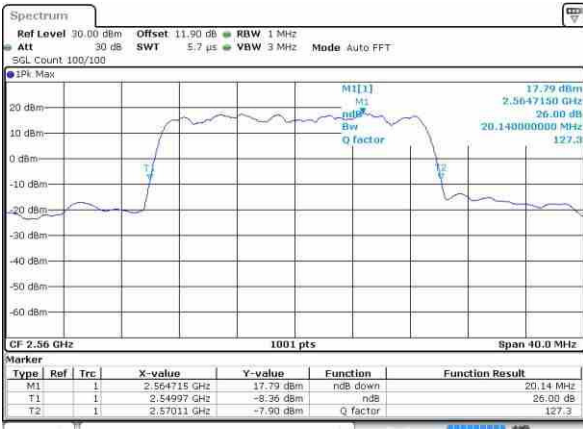
Date: 25 MAR 2016 21:50:17

Middle Channel / 20MHz / 16QAM



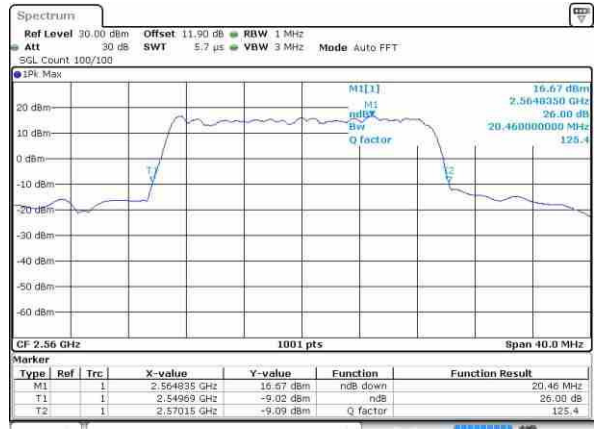
Date: 25 MAR 2016 21:50:27

Highest Channel / 20MHz / QPSK



Date: 25 MAR 2016 21:50:59

Highest Channel / 20MHz / 16QAM



Date: 25 MAR 2016 21:51:10





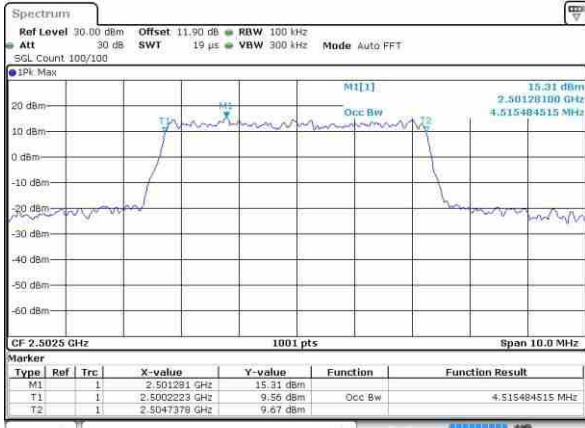
### Occupied Bandwidth

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	-	-	-	-	4.52	4.49	9.03	8.99	13.4	13.49	18.54	18.42
Middle CH	-	-	-	-	4.5	4.48	9.05	9.01	13.49	13.49	18.62	18.26
Highest CH	-	-	-	-	4.5	4.51	9.07	9.03	13.4	13.46	18.34	18.62



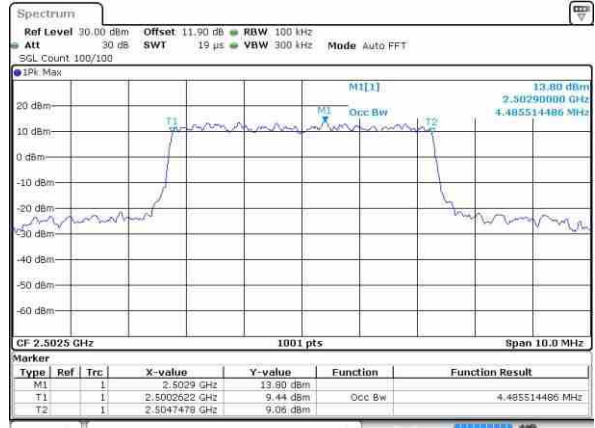
LTE Band 7

Lowest Channel / 5MHz / QPSK



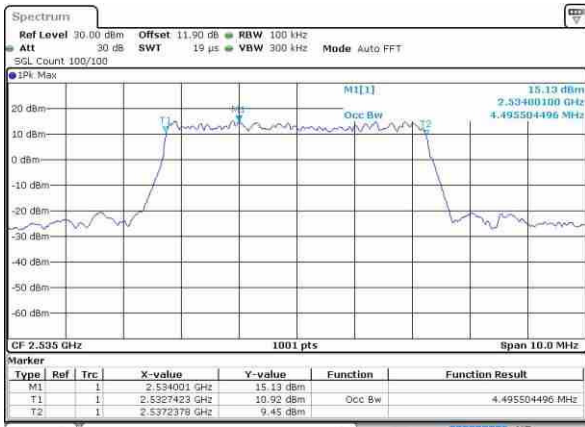
Date: 25 MAR 2016 20:59:26

Lowest Channel / 5MHz / 16QAM



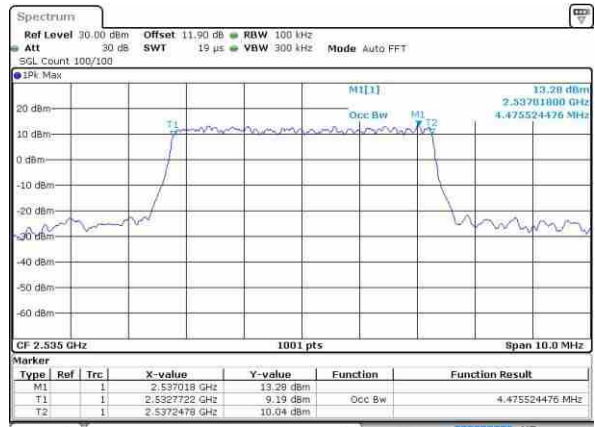
Date: 25 MAR 2016 20:59:36

Middle Channel / 5MHz / QPSK



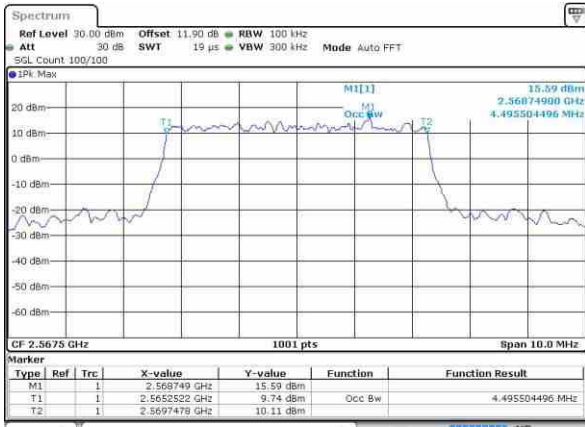
Date: 25 MAR 2016 21:06:35

Middle Channel / 5MHz / 16QAM



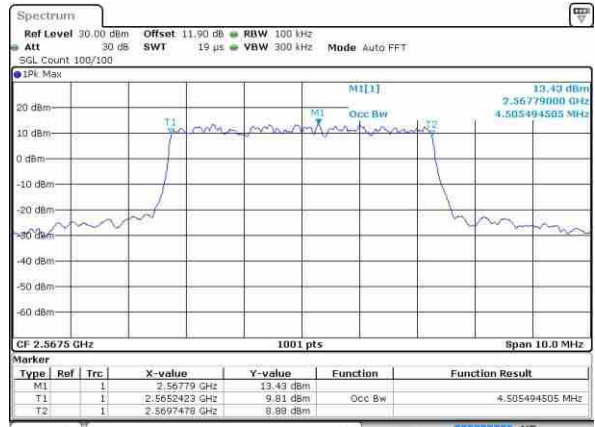
Date: 25 MAR 2016 21:06:45

Highest Channel / 5MHz / QPSK



Date: 25 MAR 2016 21:09:04

Highest Channel / 5MHz / 16QAM

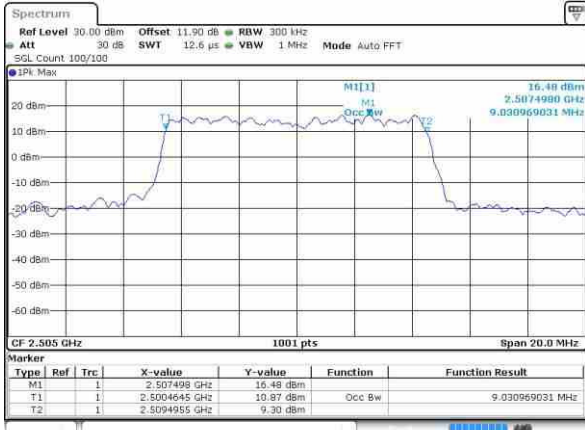


Date: 25 MAR 2016 21:09:15



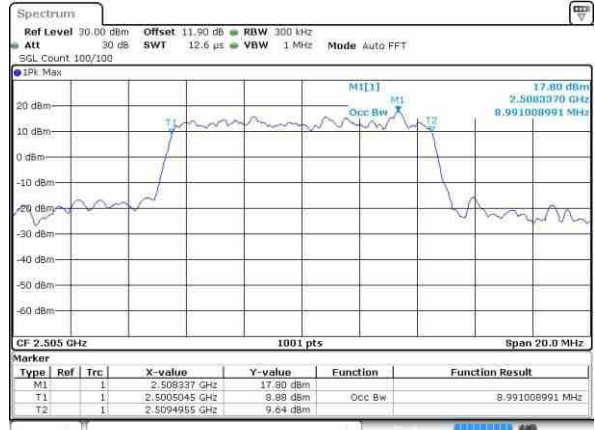
LTE Band 7

Lowest Channel / 10MHz / QPSK



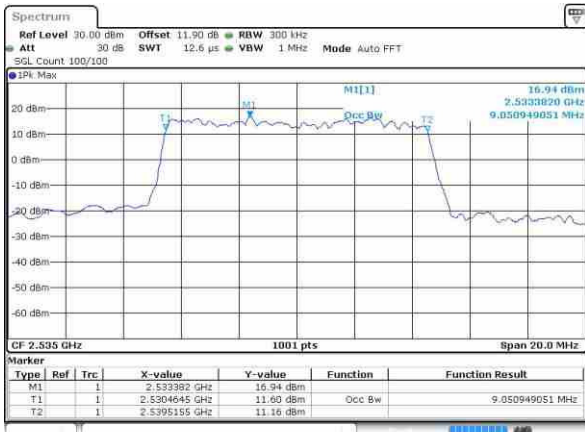
Date: 25 MAR 2016 21:16:13

Lowest Channel / 10MHz / 16QAM



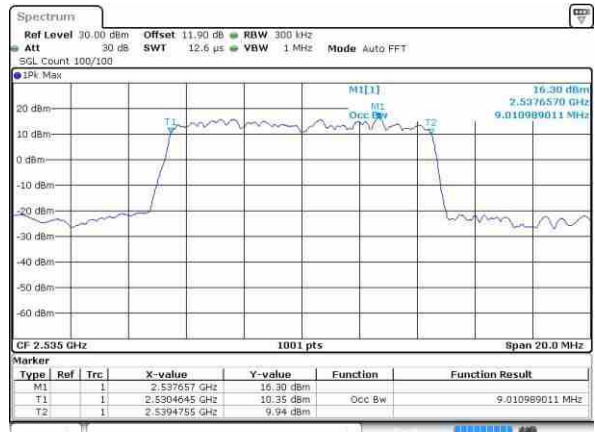
Date: 25 MAR 2016 21:16:24

Middle Channel / 10MHz / QPSK



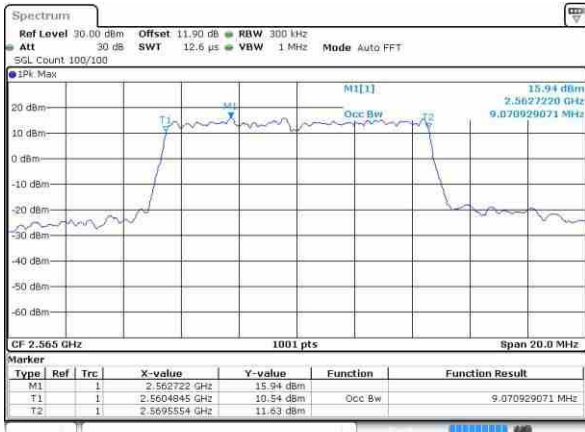
Date: 25 MAR 2016 21:23:24

Middle Channel / 10MHz / 16QAM



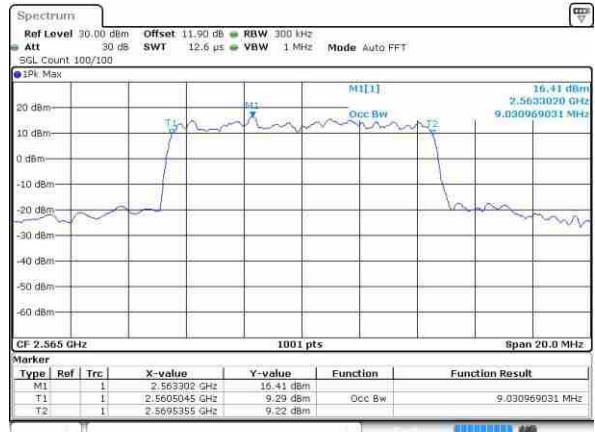
Date: 25 MAR 2016 21:23:34

Highest Channel / 10MHz / QPSK



Date: 25 MAR 2016 21:25:54

Highest Channel / 10MHz / 16QAM

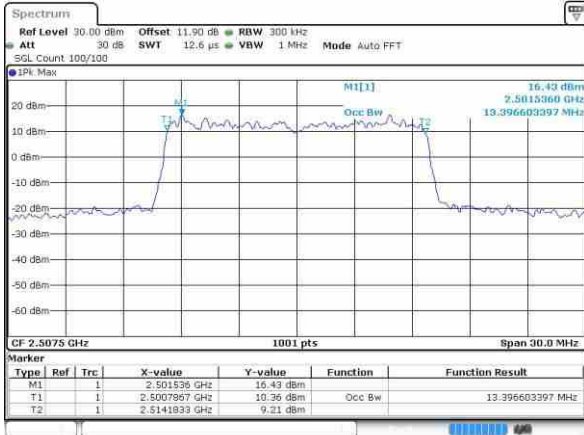


Date: 25 MAR 2016 21:26:05



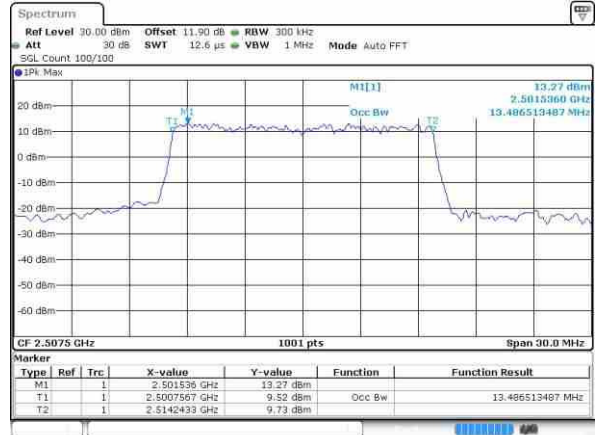
LTE Band 7

Lowest Channel / 15MHz / QPSK



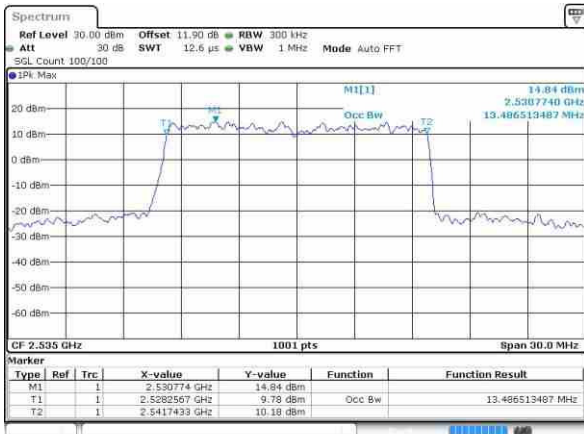
Date: 25 MAR 2016 21:33:05

Lowest Channel / 15MHz / 16QAM



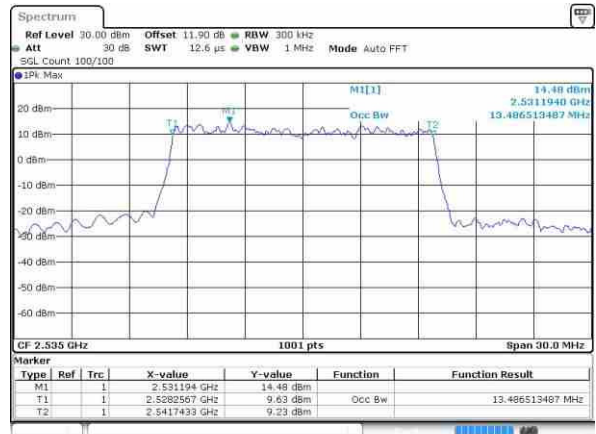
Date: 25 MAR 2016 21:33:16

Middle Channel / 15MHz / QPSK



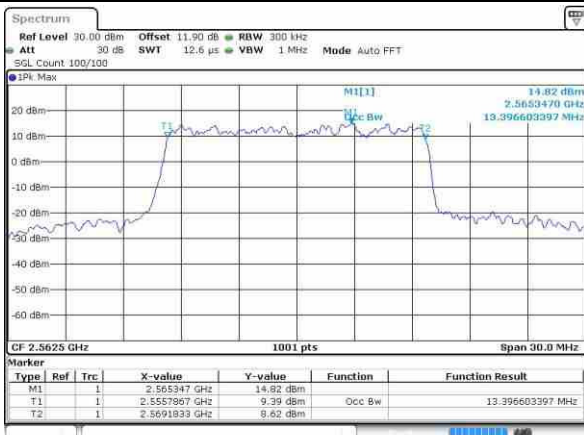
Date: 25 MAR 2016 21:38:28

Middle Channel / 15MHz / 16QAM



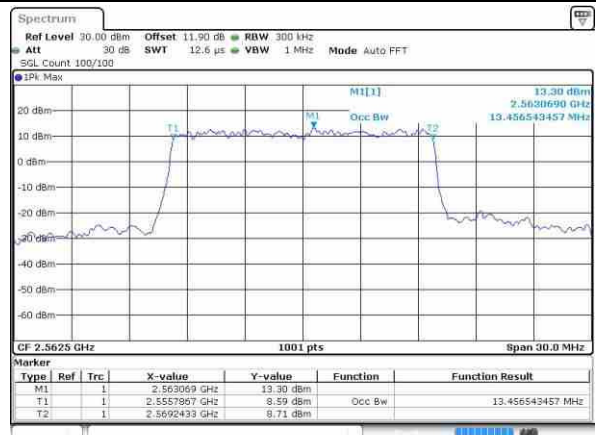
Date: 25 MAR 2016 21:38:39

Highest Channel / 15MHz / QPSK



Date: 25 MAR 2016 21:39:11

Highest Channel / 15MHz / 16QAM

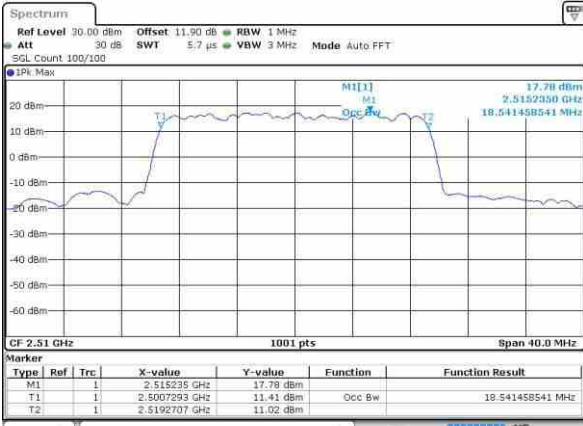


Date: 25 MAR 2016 21:39:22



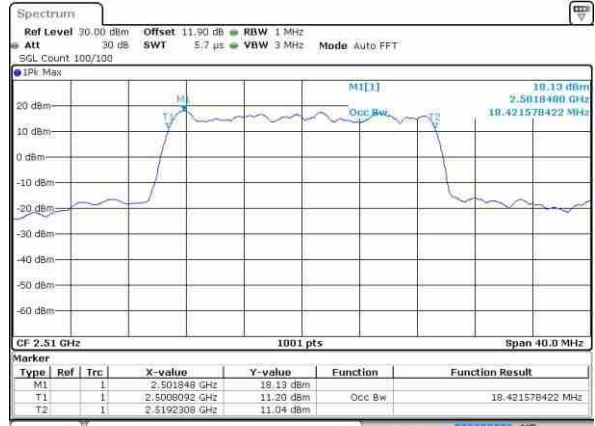
LTE Band 7

Lowest Channel / 20MHz / QPSK



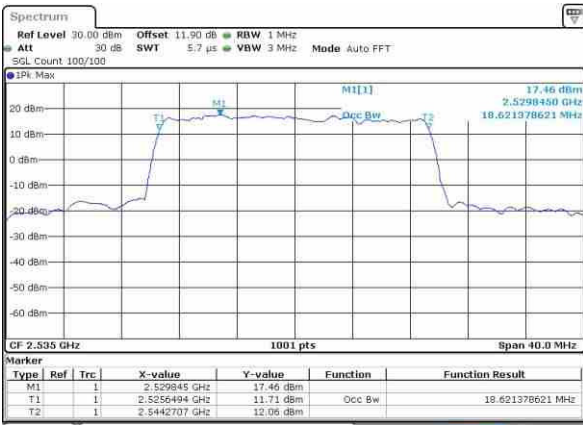
Date: 25 MAR 2016 21:44:34

Lowest Channel / 20MHz / 16QAM



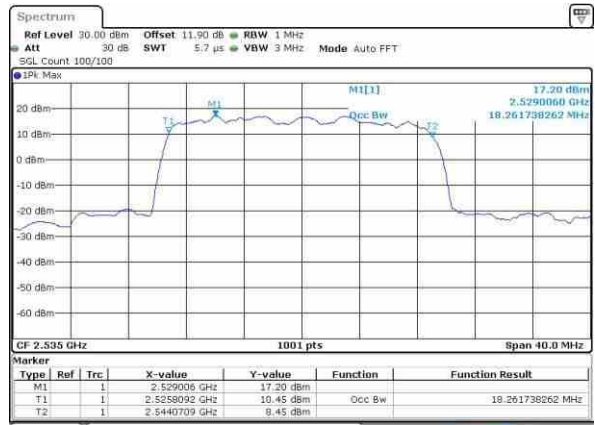
Date: 25 MAR 2016 21:44:45

Middle Channel / 20MHz / QPSK



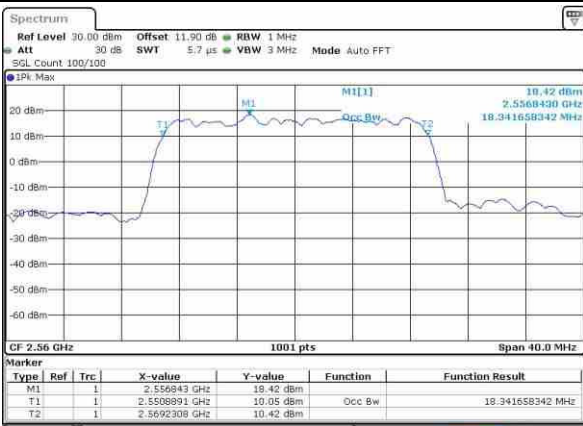
Date: 25 MAR 2016 21:48:56

Middle Channel / 20MHz / 16QAM



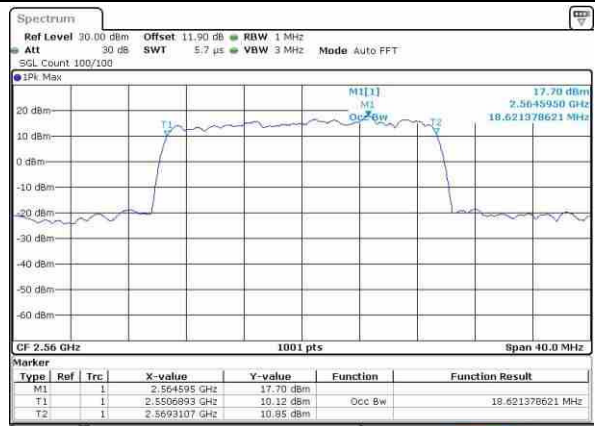
Date: 25 MAR 2016 21:50:06

Highest Channel / 20MHz / QPSK



Date: 25 MAR 2016 21:50:38

Highest Channel / 20MHz / 16QAM



Date: 25 MAR 2016 21:50:48



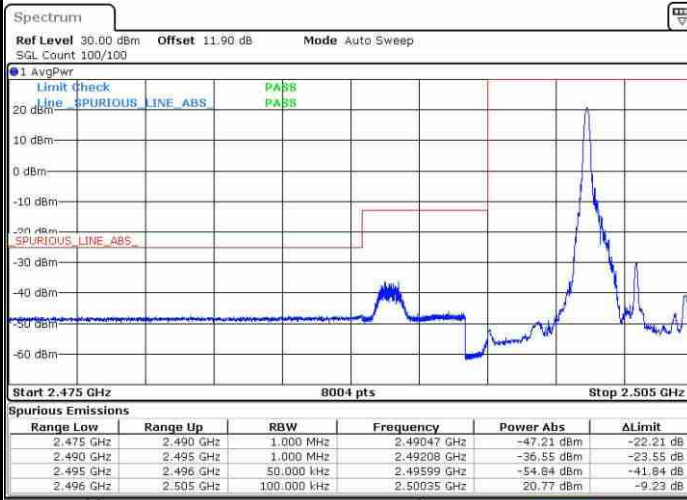


**Conducted Band Edge**



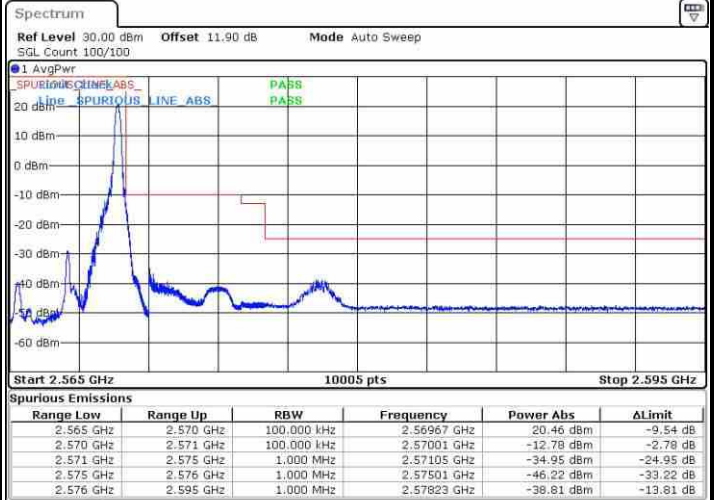
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



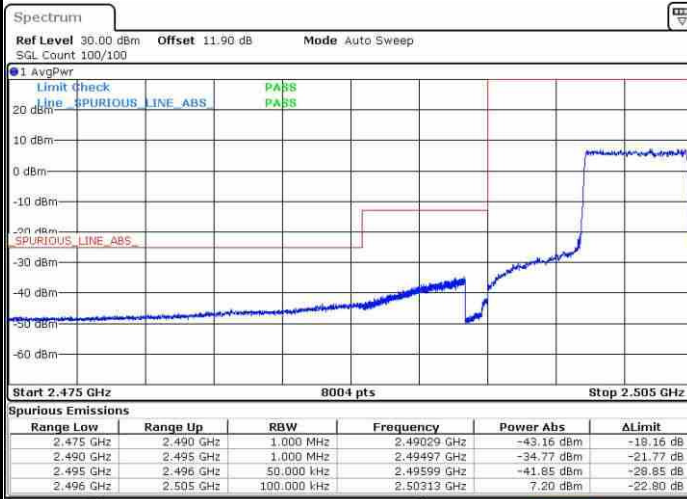
Date: 25 MAR 2016 21:01:06

Highest Band Edge / 1 RB



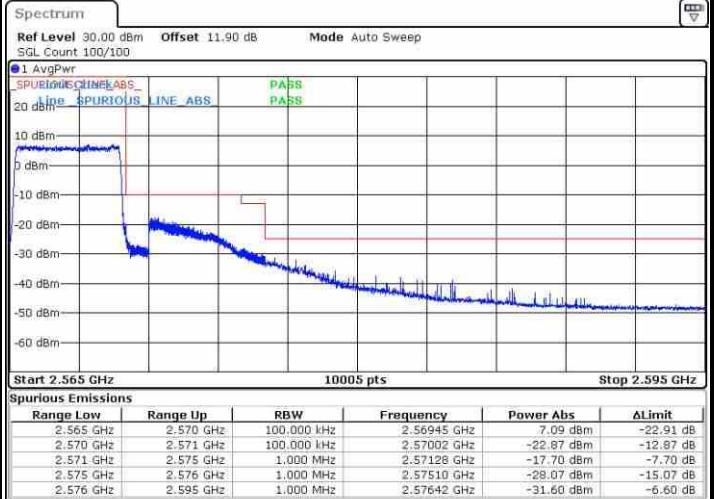
Date: 25 MAR 2016 21:10:45

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:03:26

Highest Band Edge / Full RB

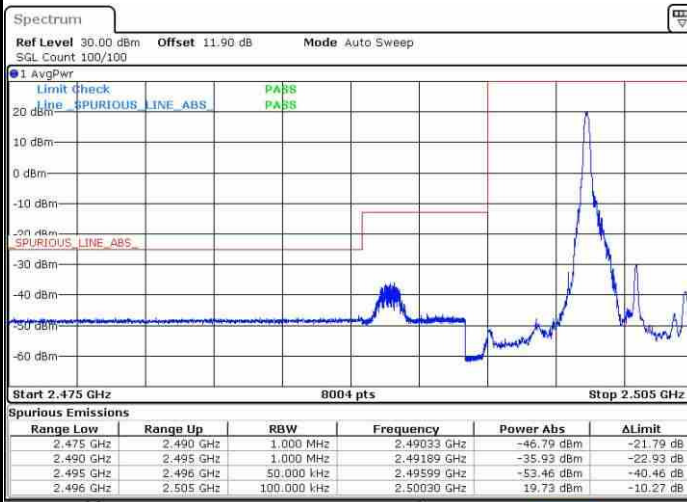


Date: 25 MAR 2016 21:13:05



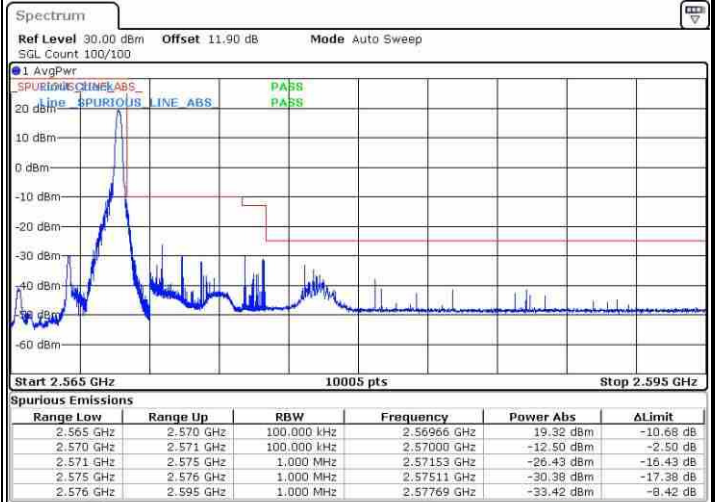
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



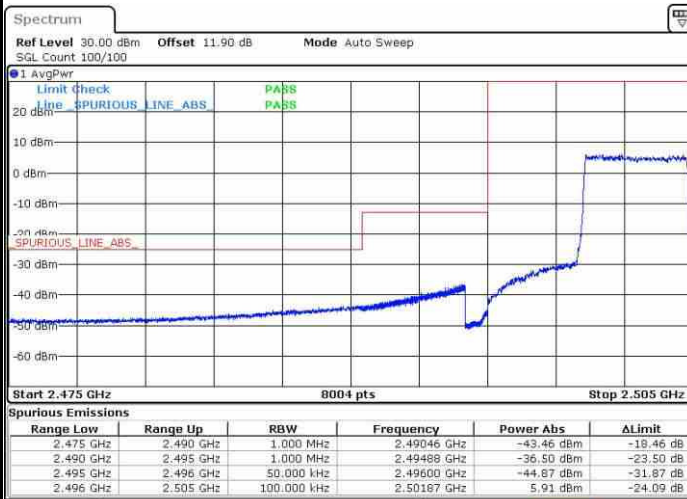
Date: 25 MAR 2016 21:02:16

Highest Band Edge / 1 RB



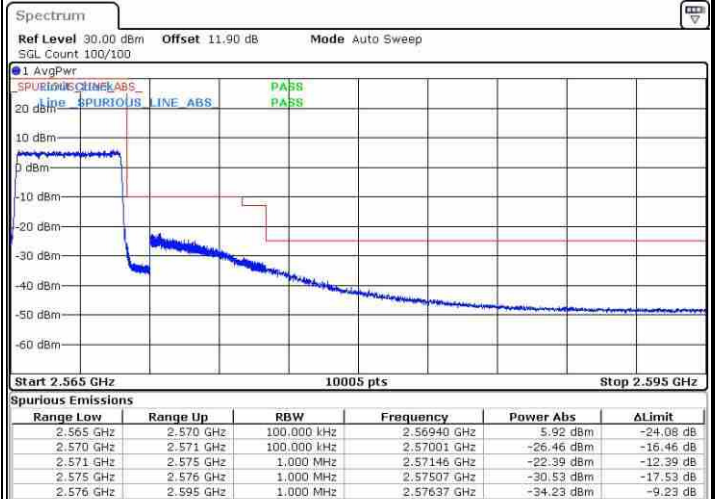
Date: 25 MAR 2016 21:11:55

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:04:36

Highest Band Edge / Full RB

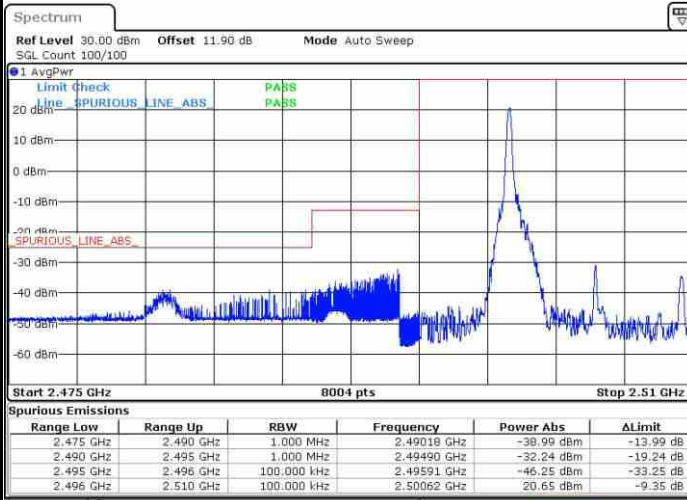


Date: 25 MAR 2016 21:14:15



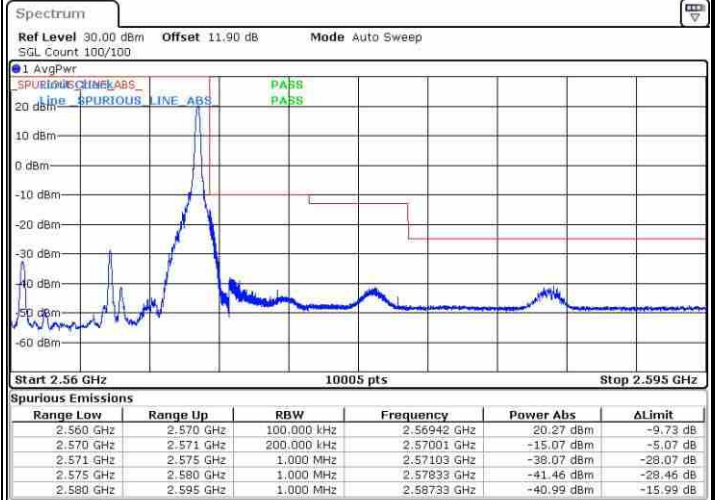
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



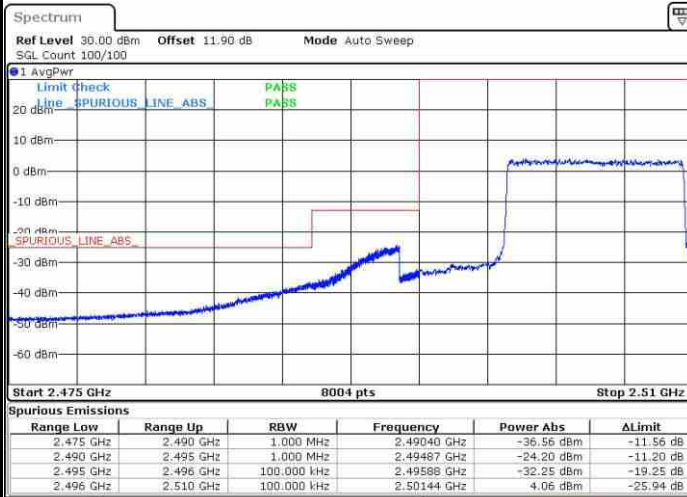
Date: 25 MAR 2016 21:17:54

Highest Band Edge / 1 RB



Date: 25 MAR 2016 21:27:35

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:20:14

Highest Band Edge / Full RB



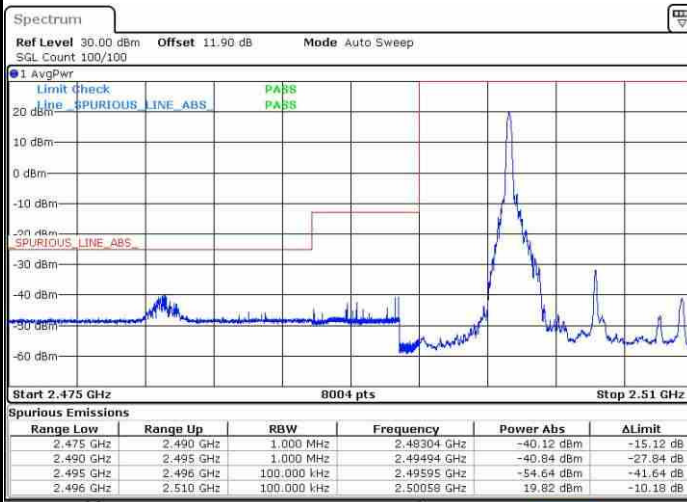
Date: 25 MAR 2016 21:29:56





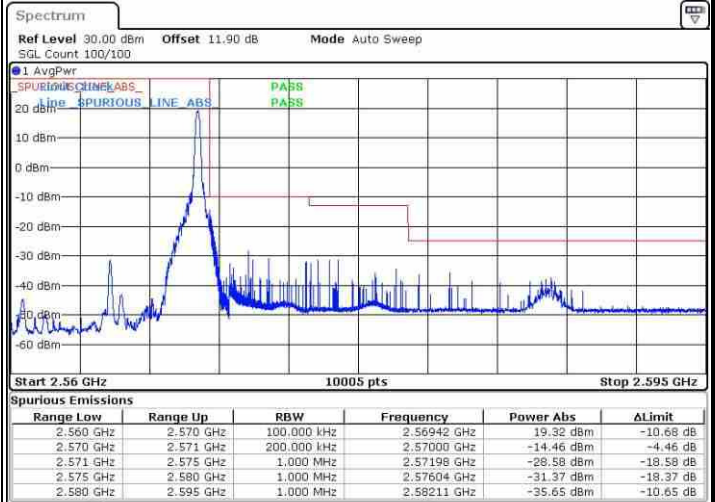
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



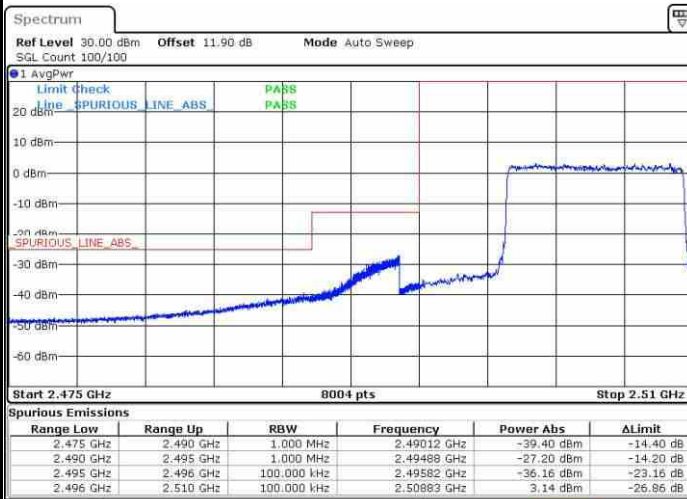
Date: 25 MAR 2016 21:19:04

Highest Band Edge / 1 RB



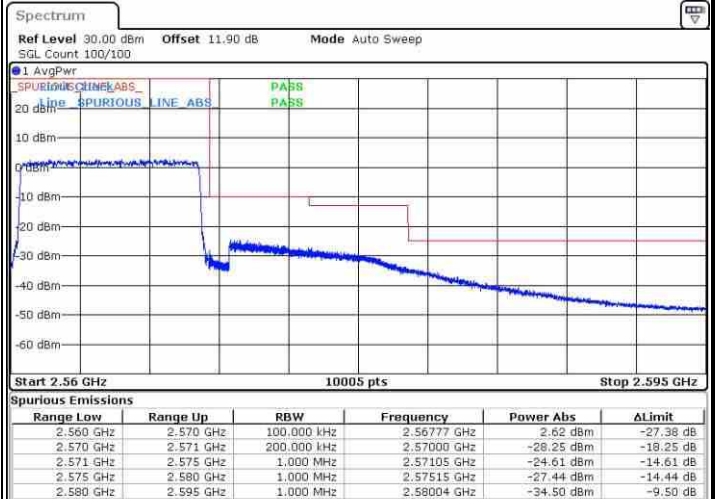
Date: 25 MAR 2016 21:28:45

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:21:24

Highest Band Edge / Full RB

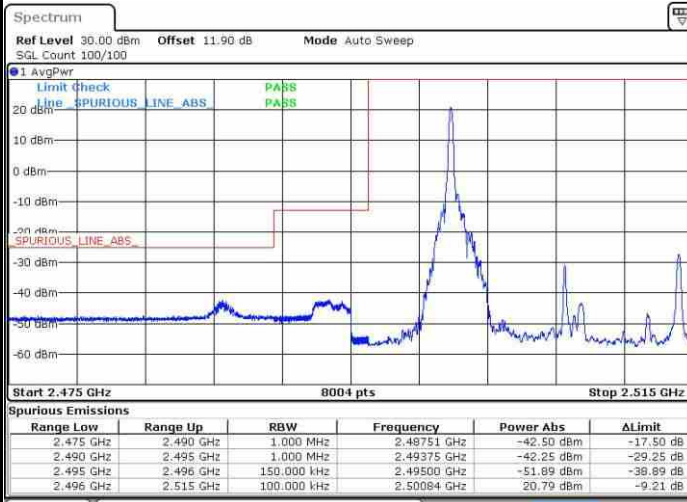


Date: 25 MAR 2016 21:31:06



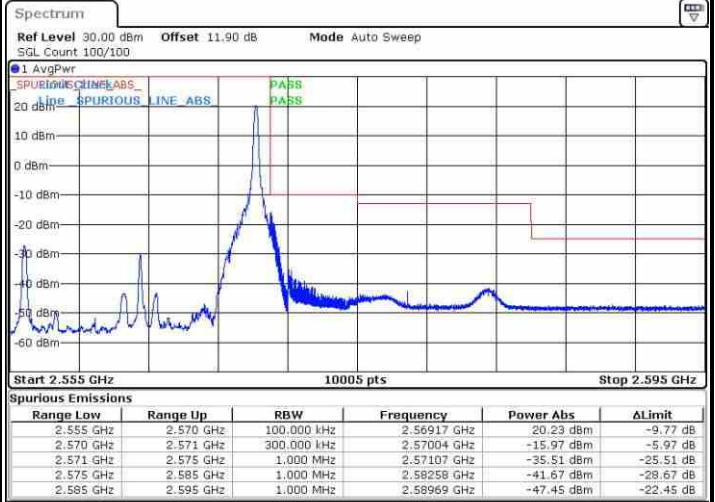
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



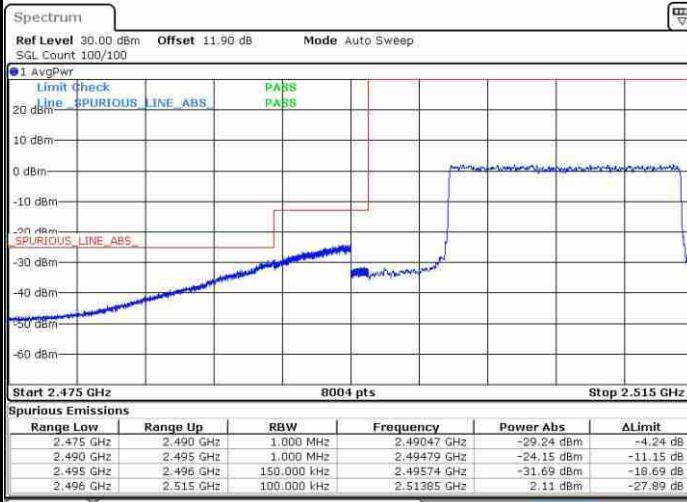
Date: 25 MAR 2016 21:34:47

Highest Band Edge / 1 RB



Date: 25 MAR 2016 21:40:53

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:37:07

Highest Band Edge / Full RB



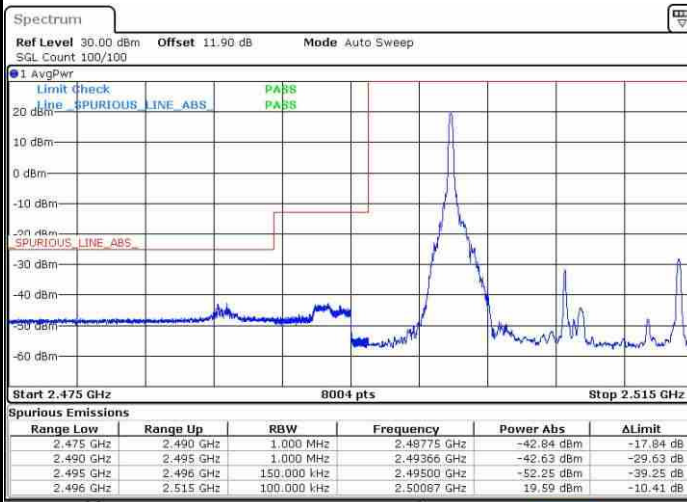
Date: 25 MAR 2016 21:43:13





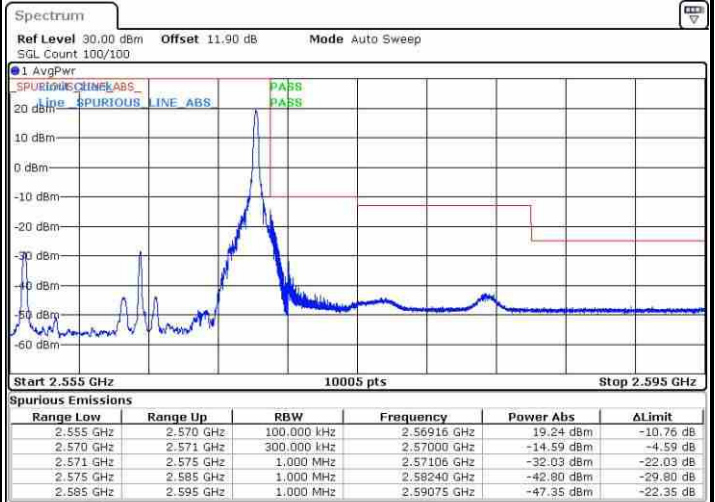
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



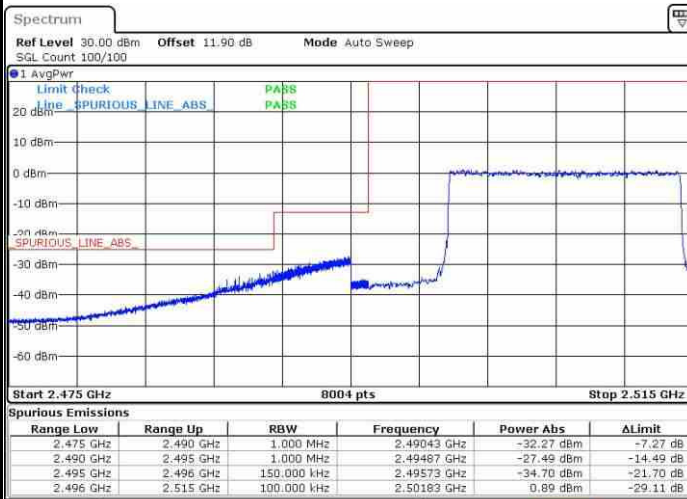
Date: 25 MAR 2016 21:35:57

Highest Band Edge / 1 RB



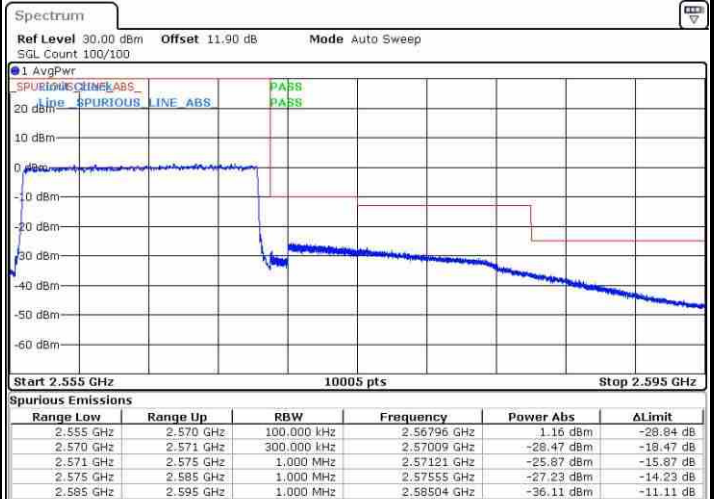
Date: 25 MAR 2016 21:42:03

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:38:17

Highest Band Edge / Full RB

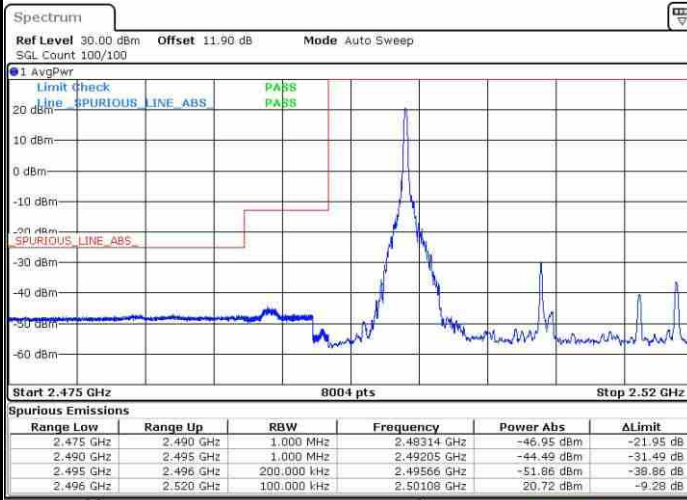


Date: 25 MAR 2016 21:44:23



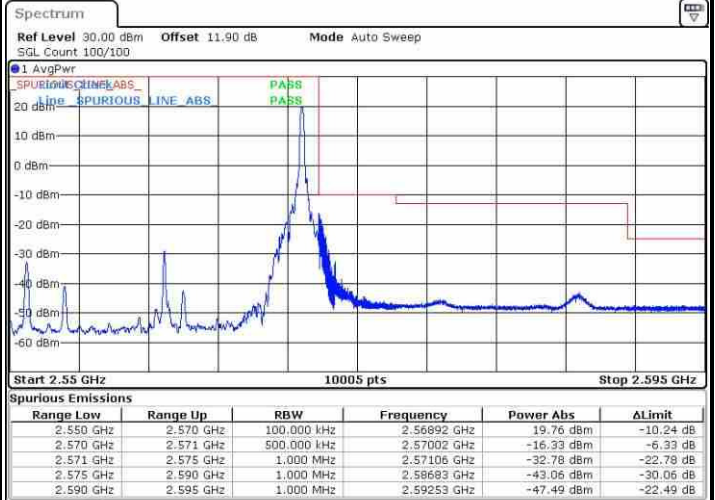
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



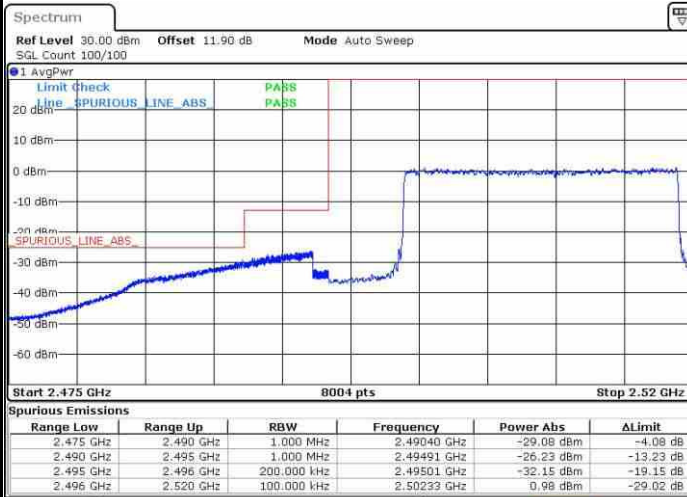
Date: 25 MAR 2016 21:46:15

Highest Band Edge / 1 RB



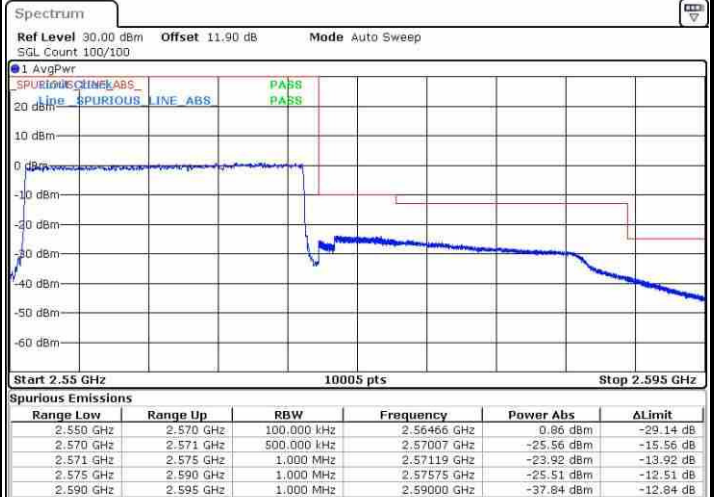
Date: 25 MAR 2016 21:52:19

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:48:35

Highest Band Edge / Full RB

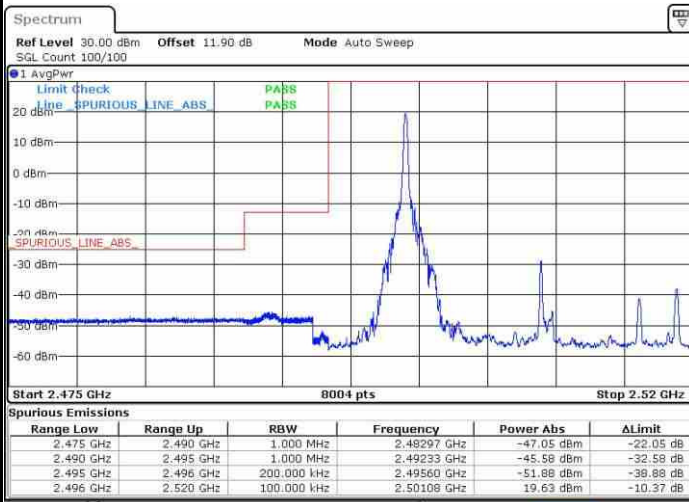


Date: 25 MAR 2016 21:55:49



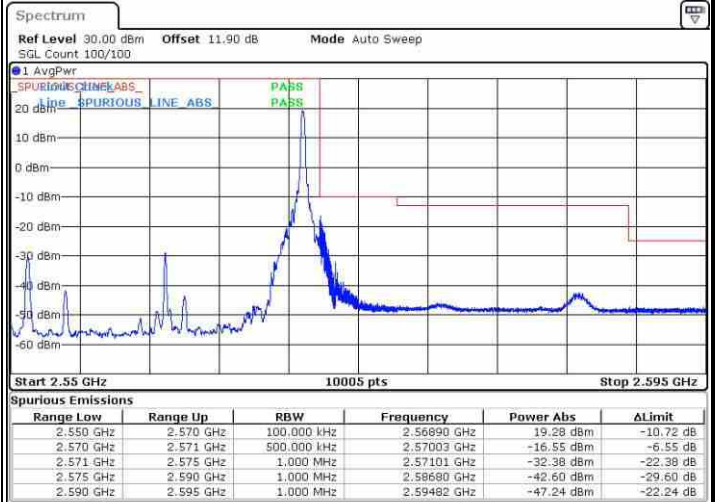
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



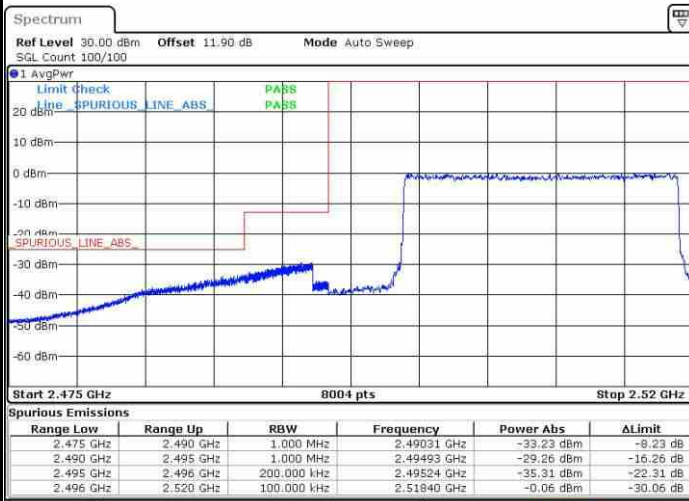
Date: 25 MAR 2016 21:47:25

Highest Band Edge / 1RB



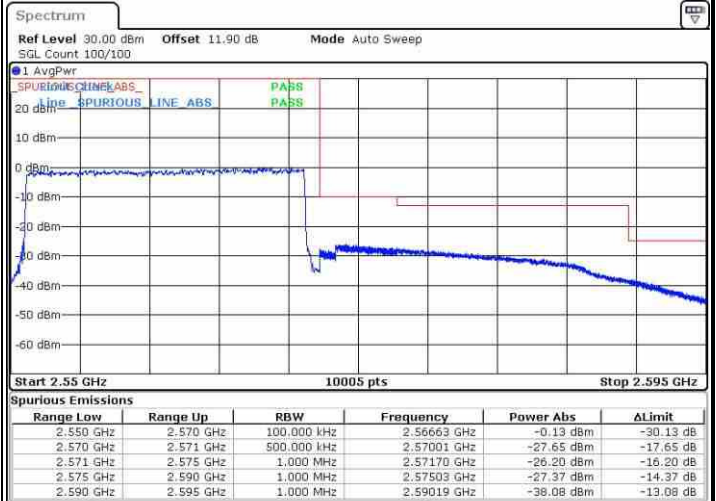
Date: 25 MAR 2016 21:53:29

Lowest Band Edge / Full RB



Date: 25 MAR 2016 21:48:45

Highest Band Edge / Full RB



Date: 25 MAR 2016 21:54:39



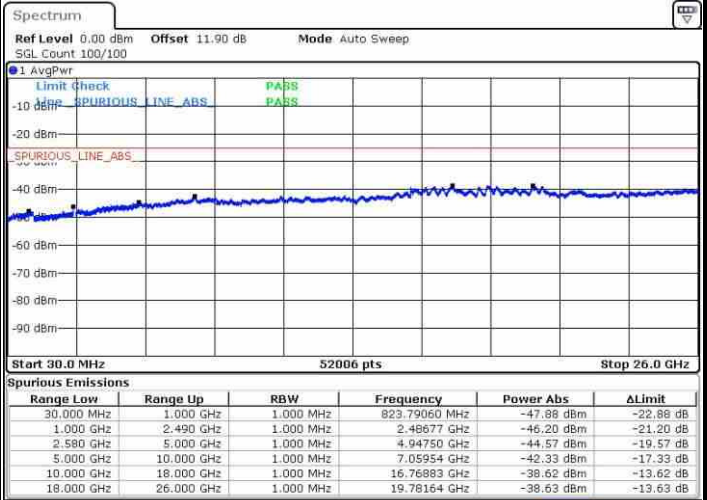
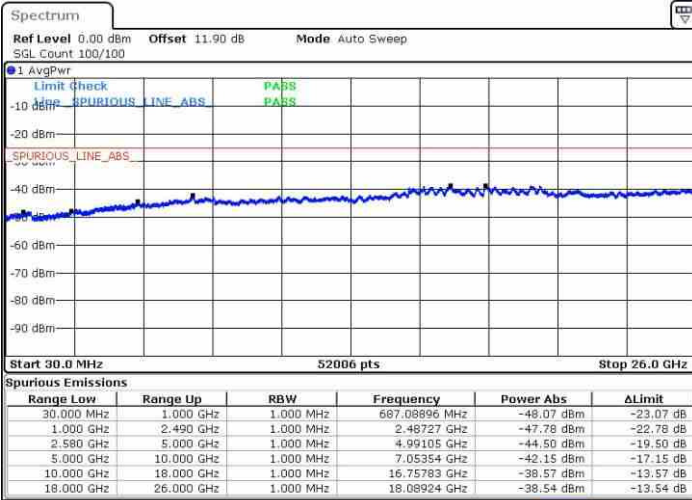
**Conducted Spurious Emission**



LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

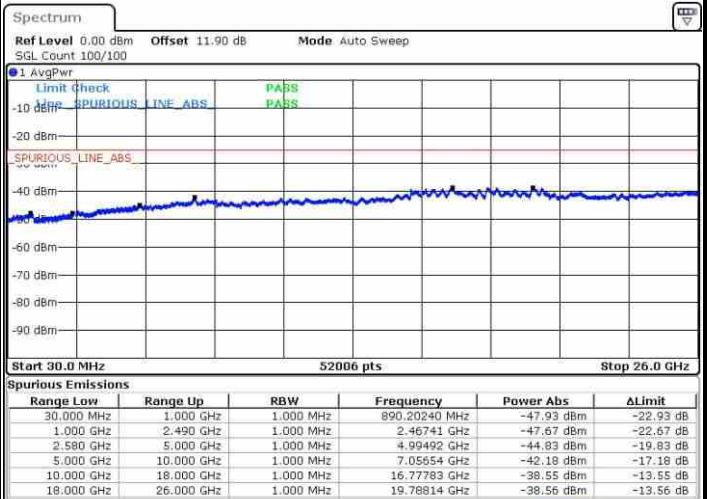
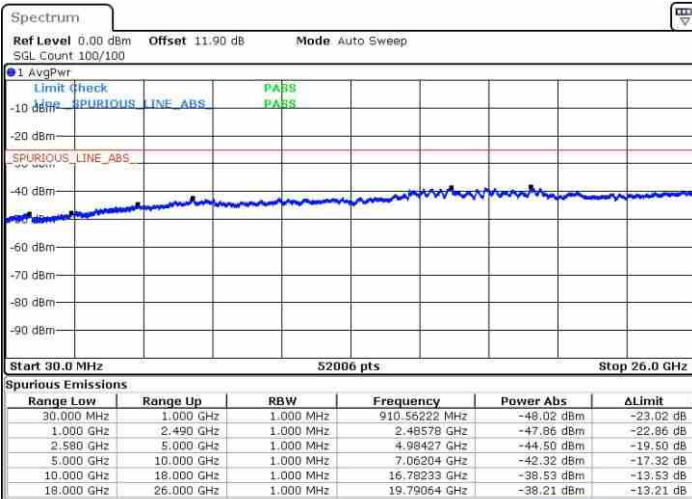


Date: 25.MAR.2016 21:05:30

Date: 25.MAR.2016 21:06:24

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 25.MAR.2016 21:08:00

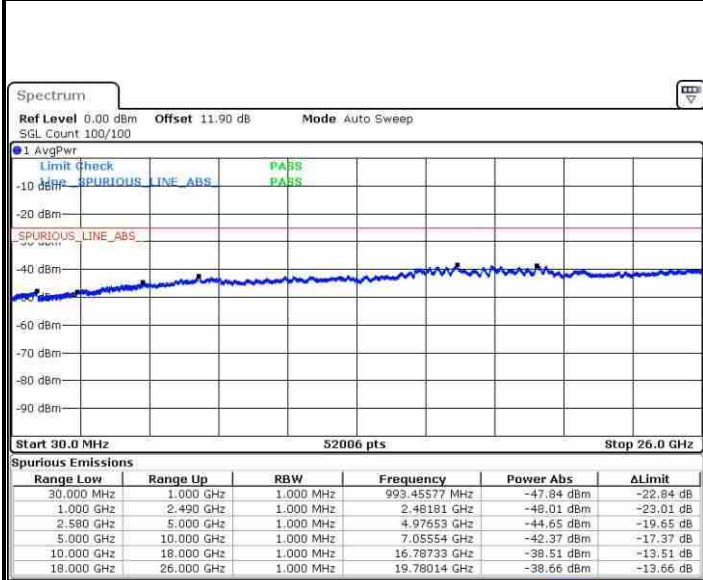
Date: 25.MAR.2016 21:08:54





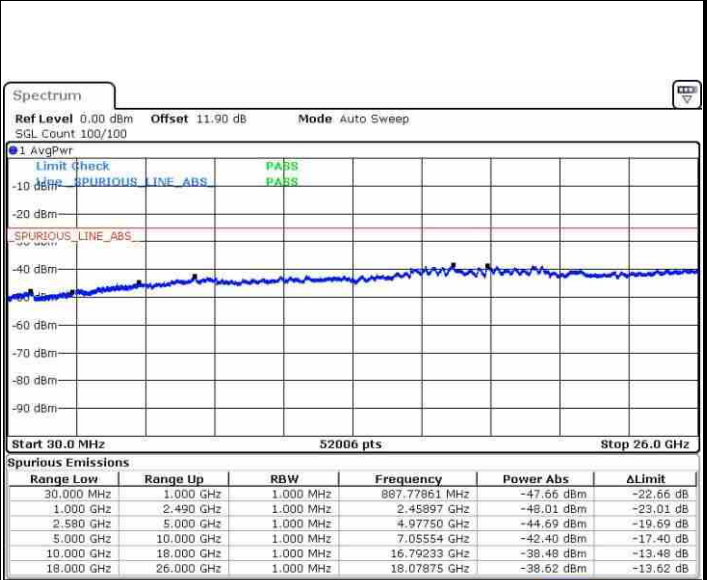
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 25.MAR.2016 21:15:09

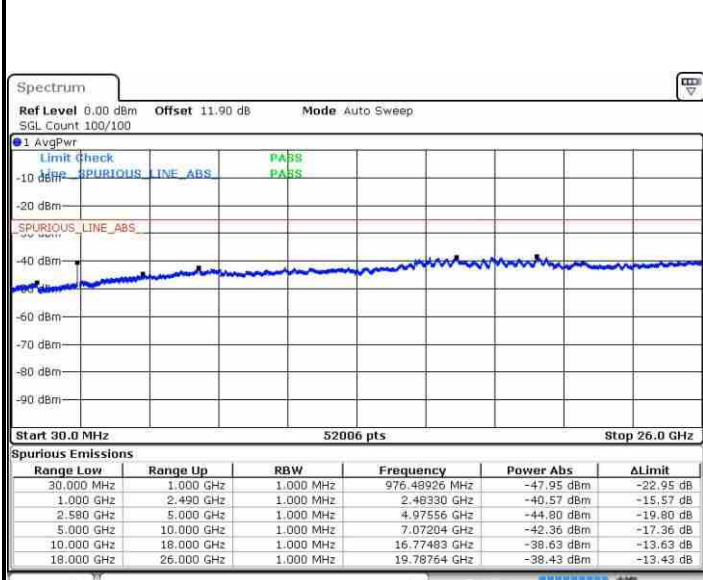
Highest Channel / 16QAM



Date: 25.MAR.2016 21:16:03

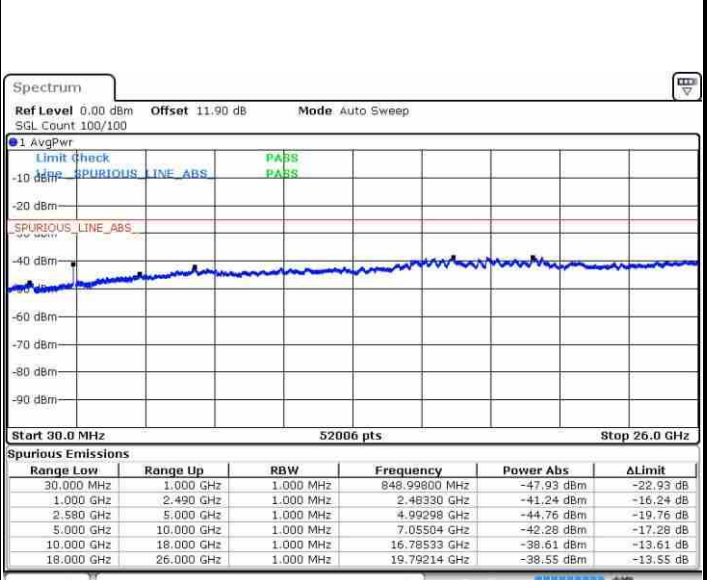
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 25.MAR.2016 21:22:18

Lowest Channel / 16QAM



Date: 25.MAR.2016 21:23:12