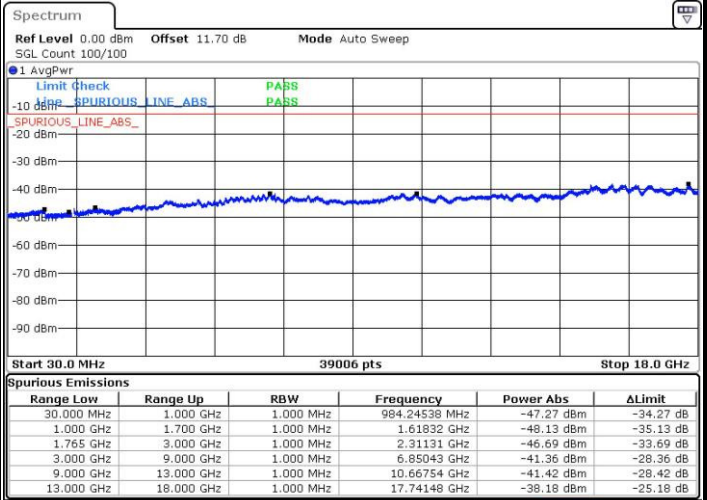
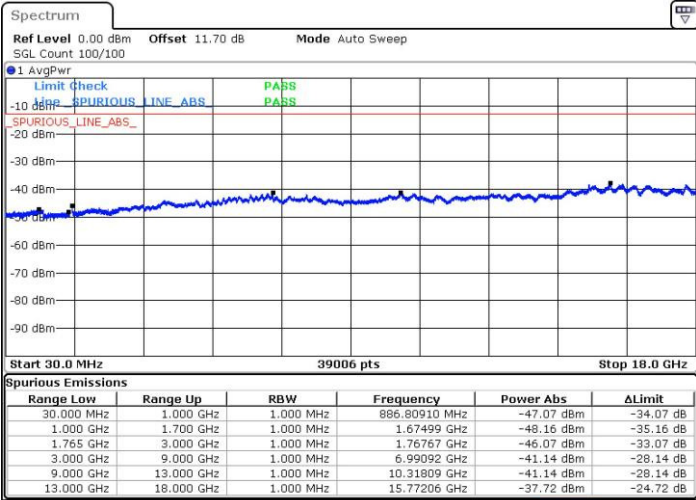




LTE Band 4 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



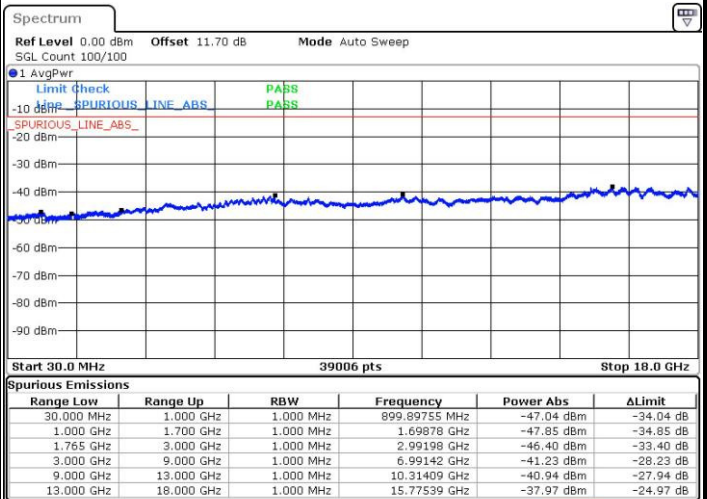
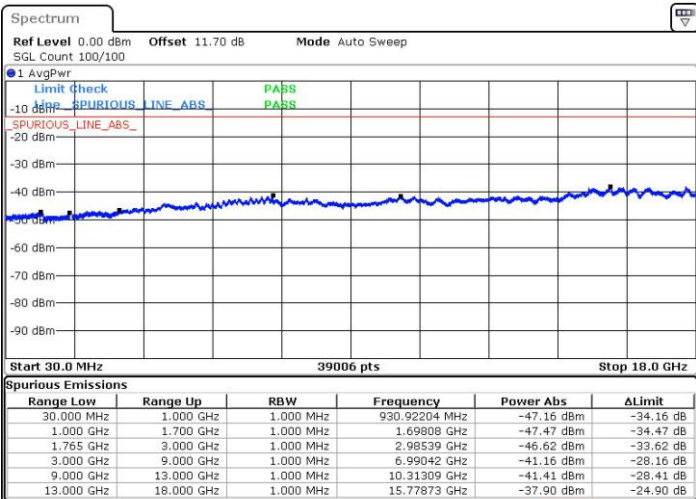
Date: 8 JAN 2017 22:08:35

Date: 8 JAN 2017 22:09:29

LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 8 JAN 2017 22:15:42

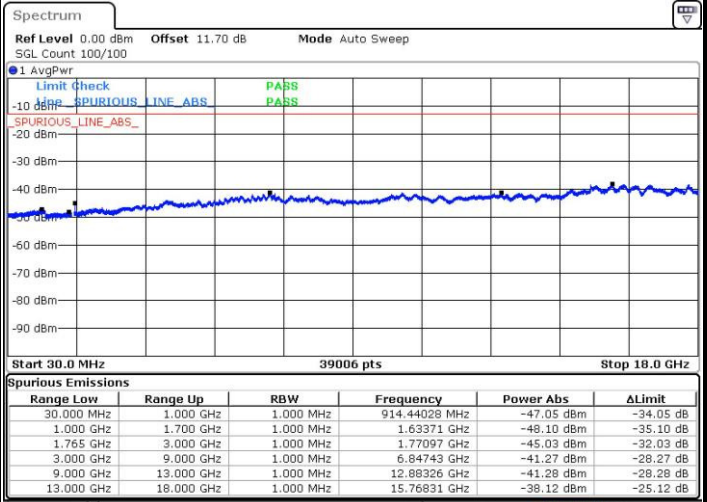
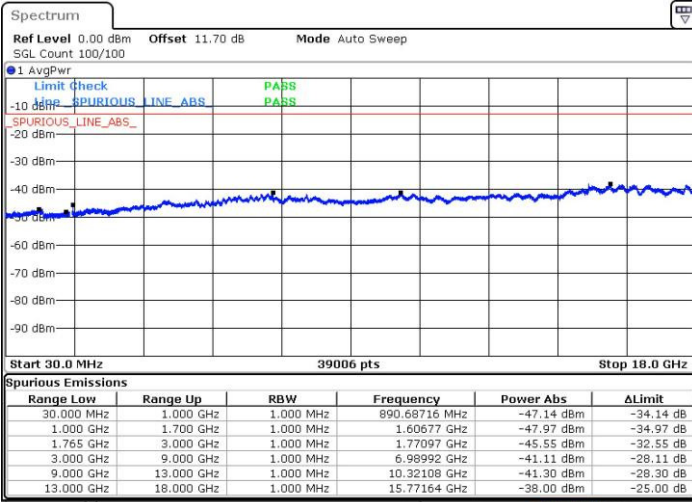
Date: 8 JAN 2017 22:16:36



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

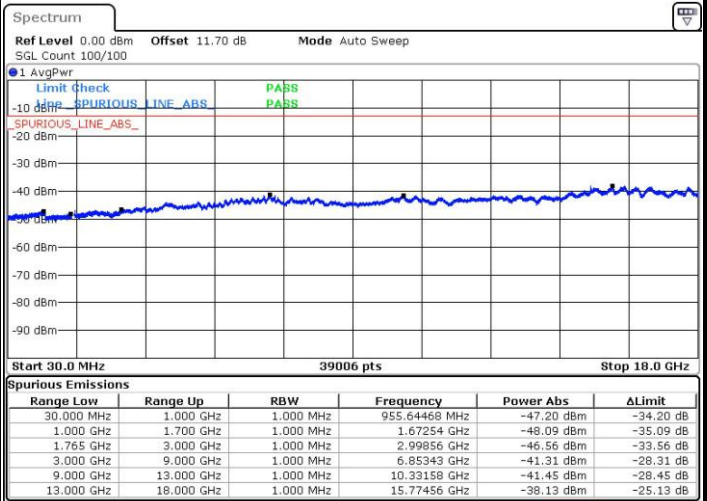
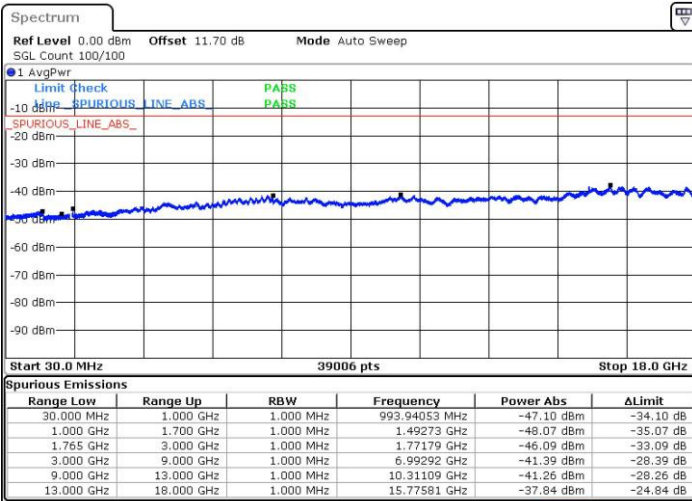


Date: 8 JAN 2017 22:18:12

Date: 8 JAN 2017 22:19:06

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8 JAN 2017 22:25:19

Date: 8 JAN 2017 22:26:13



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	0.0013	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.55	3.88	5.59	PASS
Middle CH	4.06	4.38	4.67	5.42	
Highest CH	3.42	4.61	4.87	5.57	



LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 9 JAN 2017 09:34:37

Lowest Channel / Full RB



Date: 9 JAN 2017 09:34:47

Middle Channel / 1RB



Date: 9 JAN 2017 09:34:58

Middle Channel / Full RB



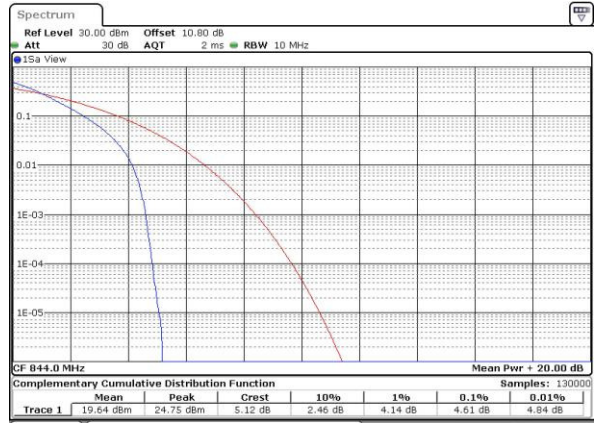
Date: 9 JAN 2017 09:35:08

Highest Channel / 1RB



Date: 9 JAN 2017 09:35:18

Highest Channel / Full RB

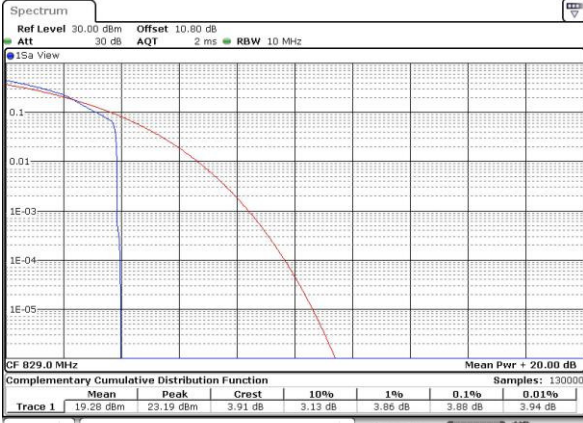


Date: 9 JAN 2017 09:35:28



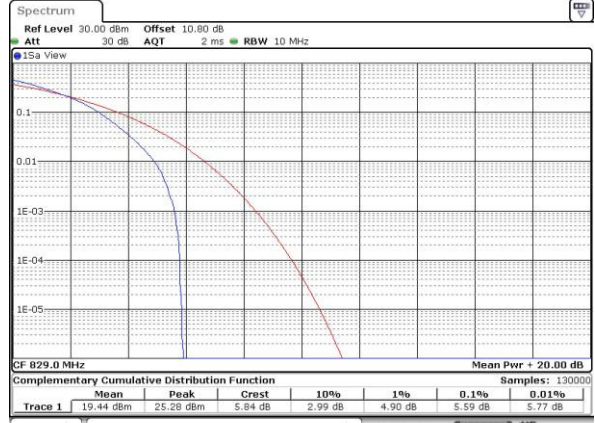
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



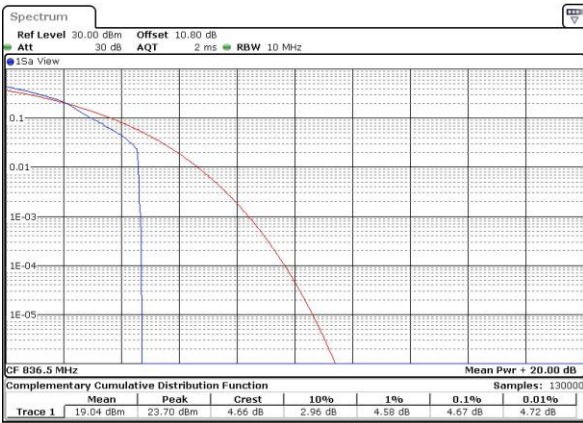
Date: 9 JAN 2017 09:32:36

Lowest Channel / Full RB



Date: 9 JAN 2017 09:32:46

Middle Channel / 1RB



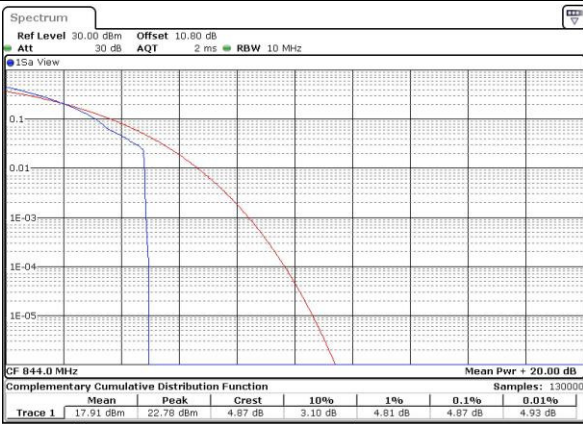
Date: 9 JAN 2017 09:32:56

Middle Channel / Full RB



Date: 9 JAN 2017 09:33:05

Highest Channel / 1RB



Date: 9 JAN 2017 09:33:15

Highest Channel / Full RB



Date: 9 JAN 2017 09:33:25



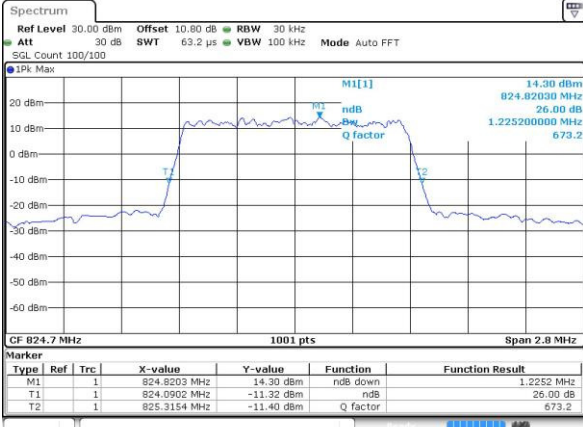
26dB Bandwidth

Mode	LTE Band 5 : 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	1.225	1.236	3.045	3.009	4.935	4.875	9.83	9.87	-	-	-	-
Middle CH	1.245	1.245	3.033	3.045	4.915	4.885	9.65	9.79	-	-	-	-
Highest CH	1.231	1.225	3.063	3.021	4.835	4.845	9.69	9.67	-	-	-	-



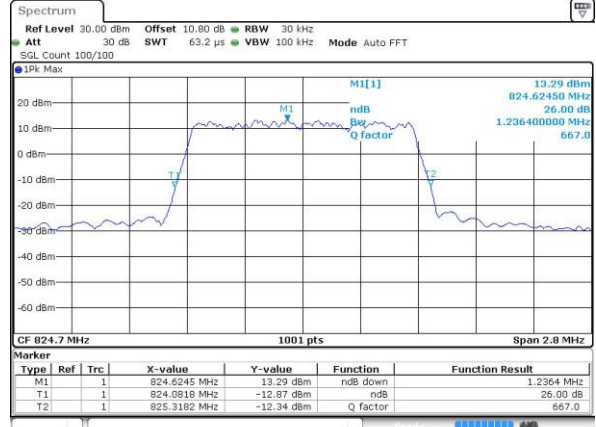
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



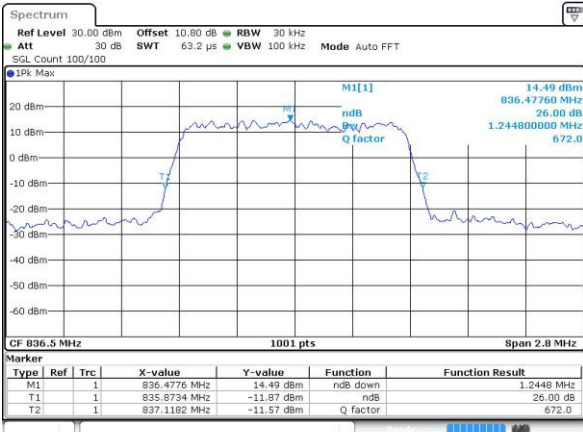
Date: 9 JAN 2017 09:12:10

Lowest Channel / 1.4MHz / 16QAM



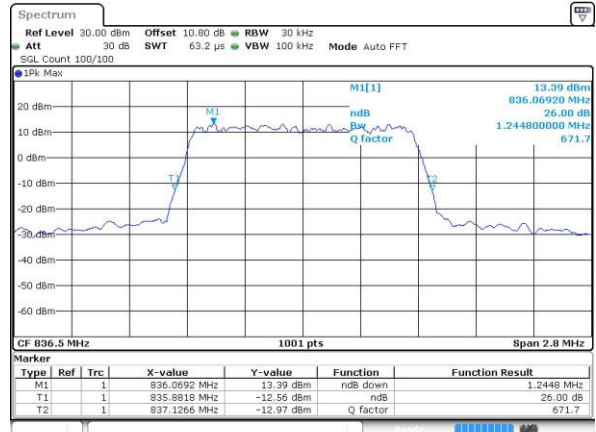
Date: 9 JAN 2017 09:12:00

Middle Channel / 1.4MHz / QPSK



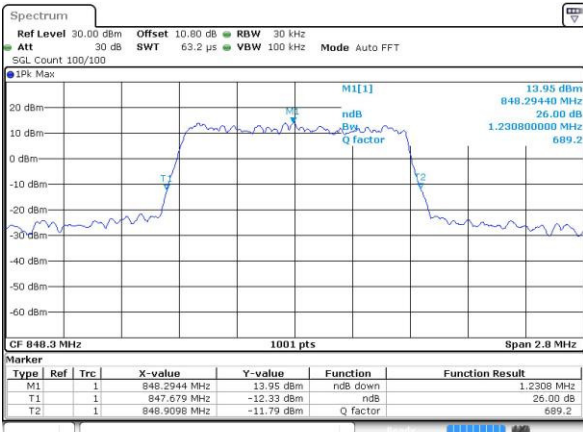
Date: 9 JAN 2017 09:21:06

Middle Channel / 1.4MHz / 16QAM



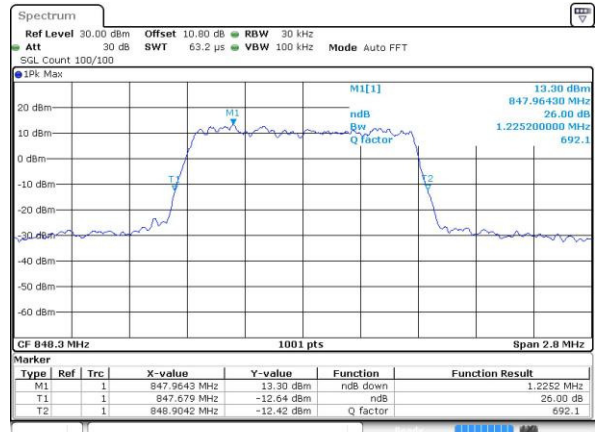
Date: 9 JAN 2017 09:21:17

Highest Channel / 1.4MHz / QPSK



Date: 9 JAN 2017 09:23:37

Highest Channel / 1.4MHz / 16QAM

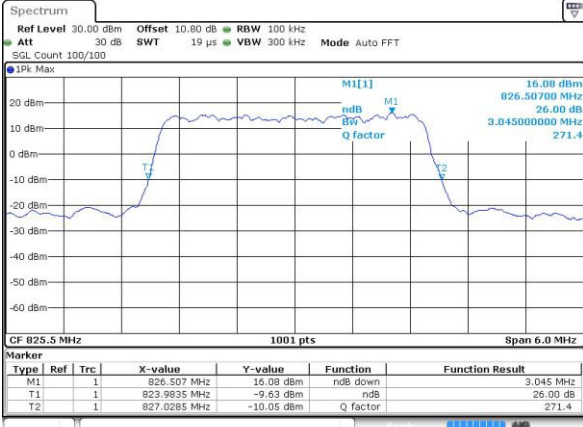


Date: 9 JAN 2017 09:23:47



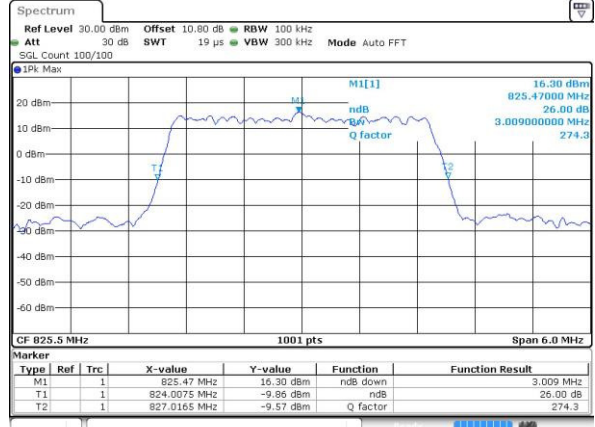
LTE Band 5

Lowest Channel / 3MHz / QPSK



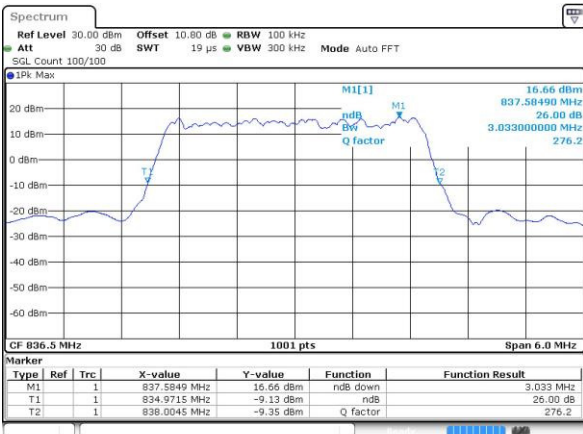
Date: 8 JAN 2017 23:01:48

Lowest Channel / 3MHz / 16QAM



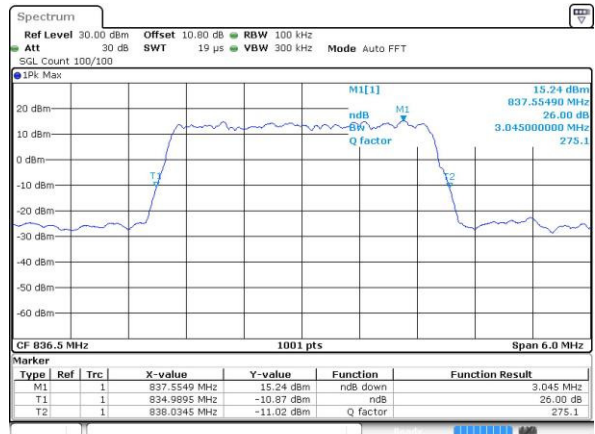
Date: 8 JAN 2017 23:01:59

Middle Channel / 3MHz / QPSK



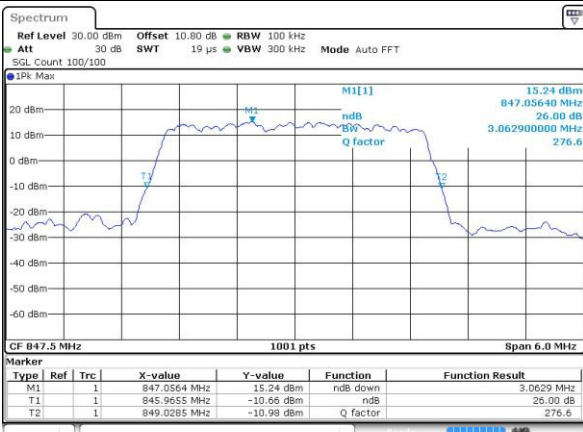
Date: 8 JAN 2017 23:10:55

Middle Channel / 3MHz / 16QAM



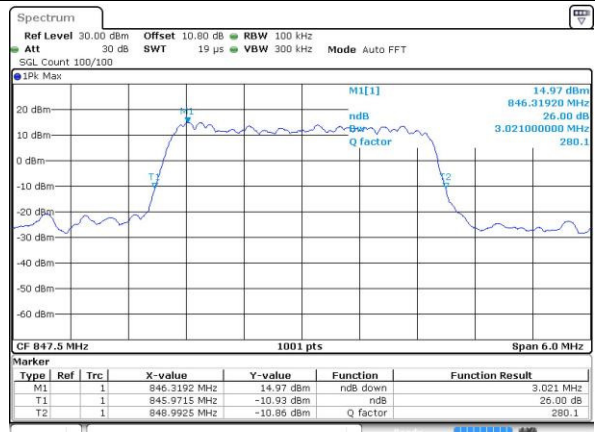
Date: 8 JAN 2017 23:11:05

Highest Channel / 3MHz / QPSK



Date: 8 JAN 2017 23:13:25

Highest Channel / 3MHz / 16QAM

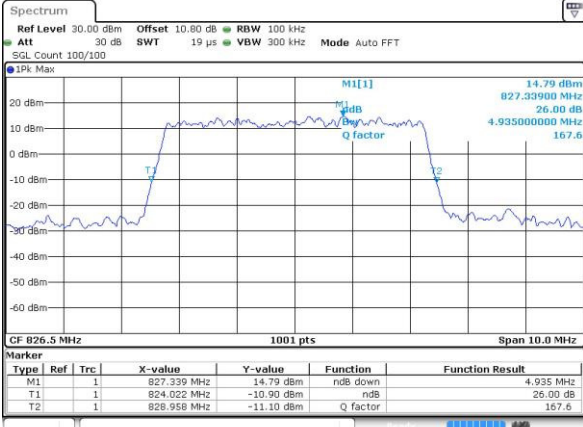


Date: 8 JAN 2017 23:13:35



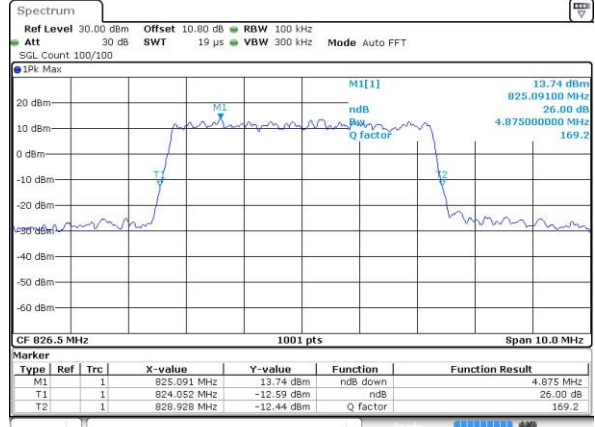
LTE Band 5

Lowest Channel / 5MHz / QPSK



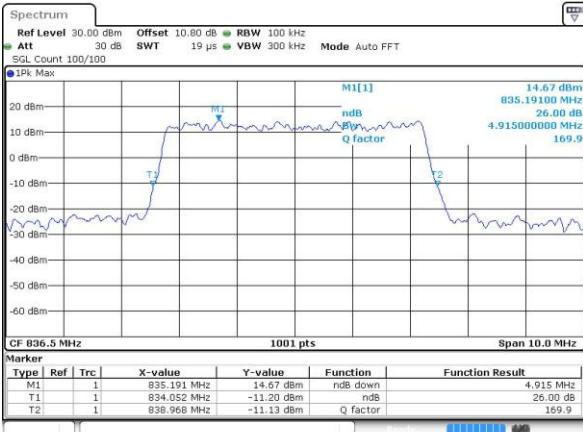
Date: 8 JAN 2017 23:22:31

Lowest Channel / 5MHz / 16QAM



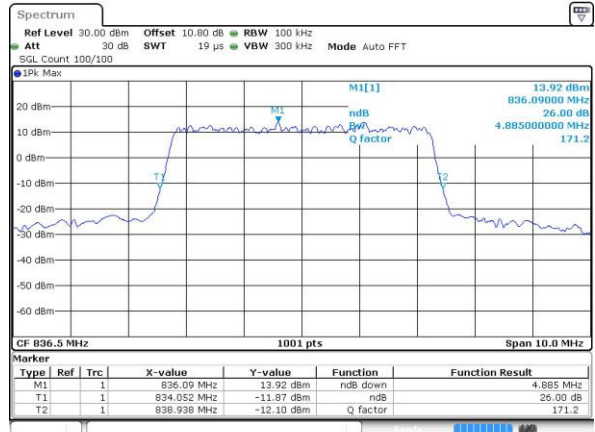
Date: 8 JAN 2017 23:22:42

Middle Channel / 5MHz / QPSK



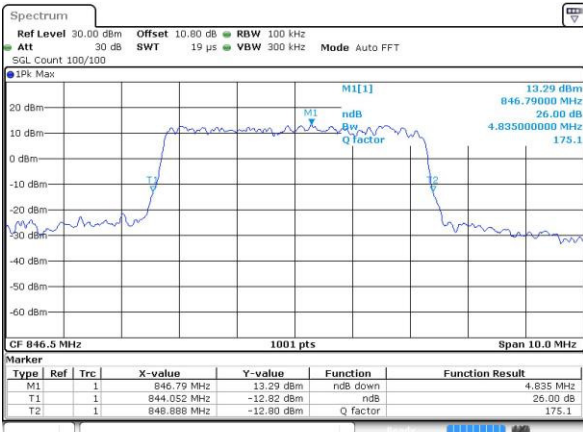
Date: 8 JAN 2017 23:32:18

Middle Channel / 5MHz / 16QAM



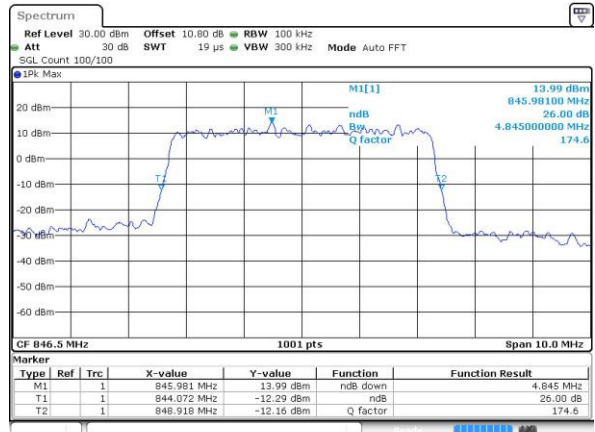
Date: 8 JAN 2017 23:32:28

Highest Channel / 5MHz / QPSK



Date: 8 JAN 2017 23:34:48

Highest Channel / 5MHz / 16QAM

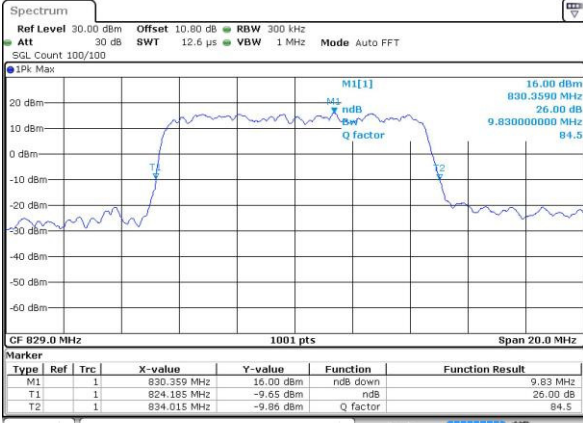


Date: 8 JAN 2017 23:34:58



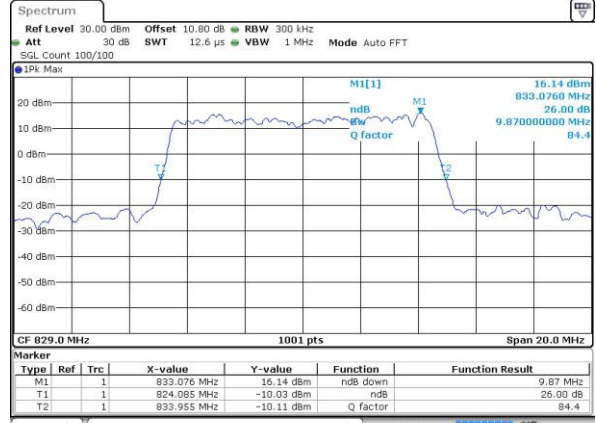
LTE Band 5

Lowest Channel / 10MHz / QPSK



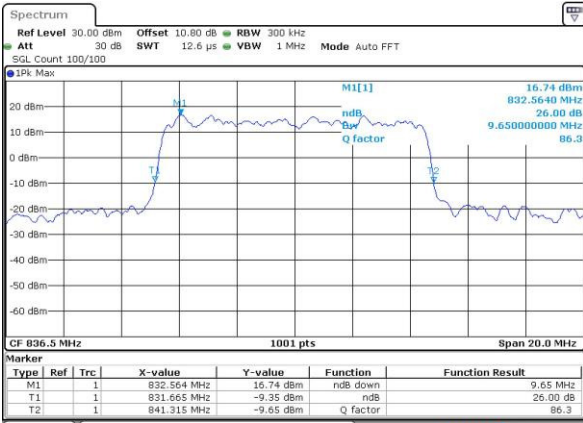
Date: 8 JAN 2017 23:43:55

Lowest Channel / 10MHz / 16QAM



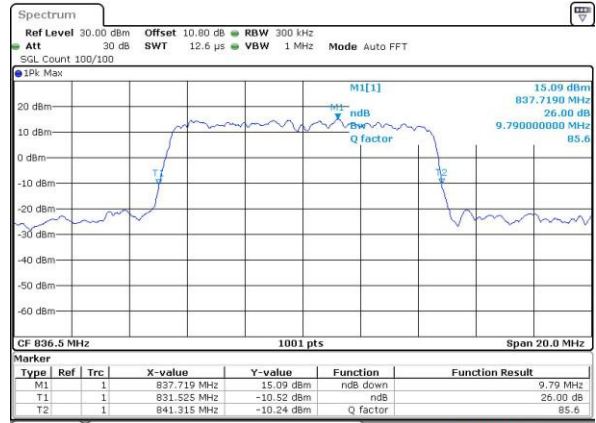
Date: 8 JAN 2017 23:44:05

Middle Channel / 10MHz / QPSK



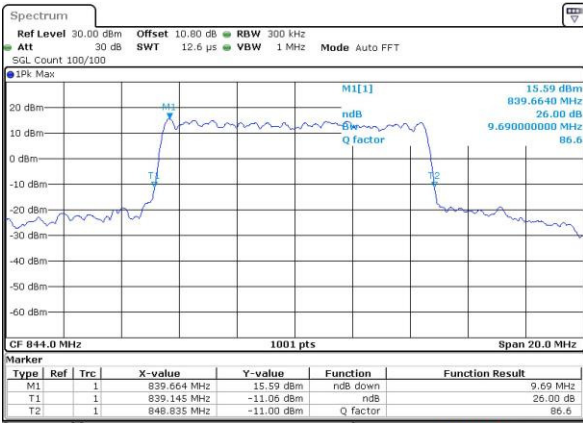
Date: 8 JAN 2017 23:53:01

Middle Channel / 10MHz / 16QAM



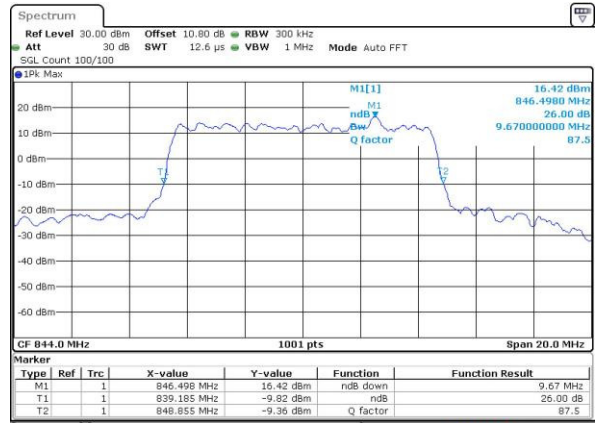
Date: 8 JAN 2017 23:53:11

Highest Channel / 10MHz / QPSK



Date: 8 JAN 2017 23:55:30

Highest Channel / 10MHz / 16QAM



Date: 8 JAN 2017 23:55:40



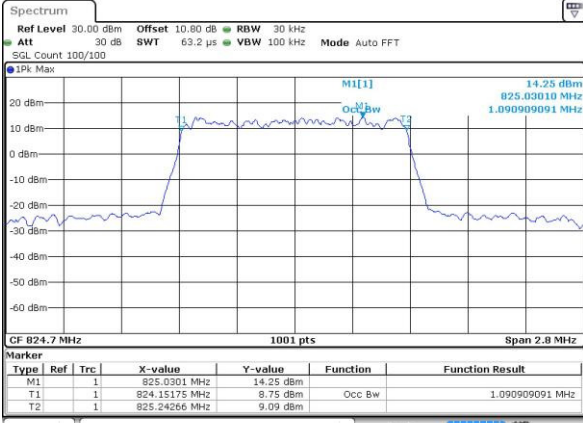
Occupied Bandwidth

Mode	LTE Band 5 : 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	1.09	1.09	2.73	2.73	4.49	4.48	9.03	9.03	-	-	-	-
Middle CH	1.1	1.09	2.71	2.72	4.48	4.5	9.01	9.03	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.5	4.5	8.99	9.03	-	-	-	-



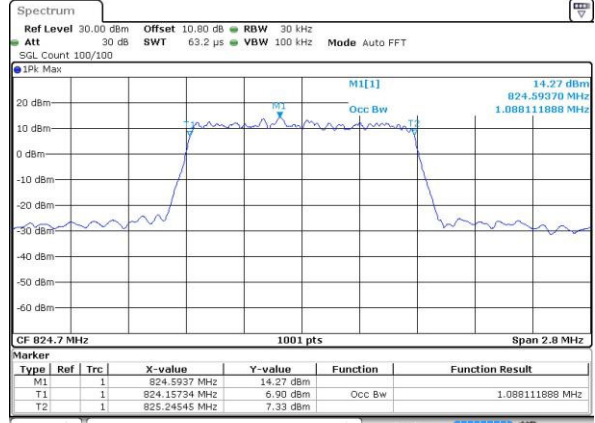
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



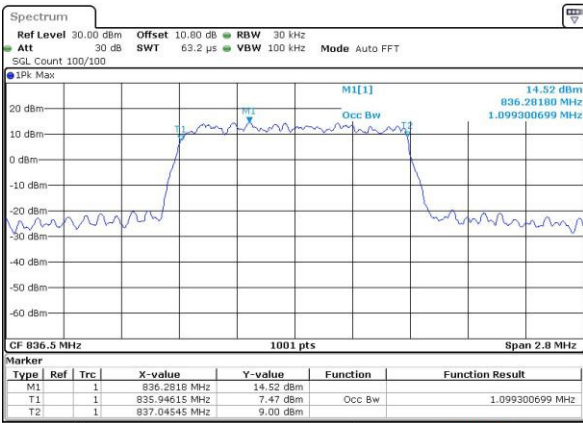
Date: 9 JAN 2017 09:11:39

Lowest Channel / 1.4MHz / 16QAM



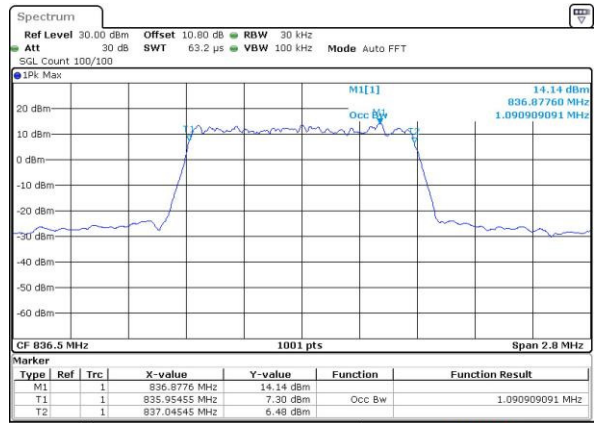
Date: 9 JAN 2017 09:11:49

Middle Channel / 1.4MHz / QPSK



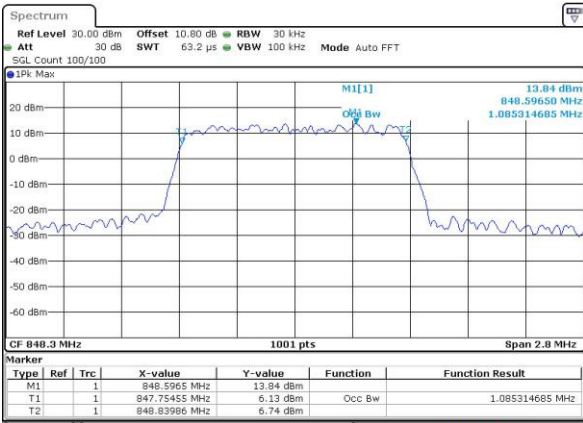
Date: 9 JAN 2017 09:20:46

Middle Channel / 1.4MHz / 16QAM



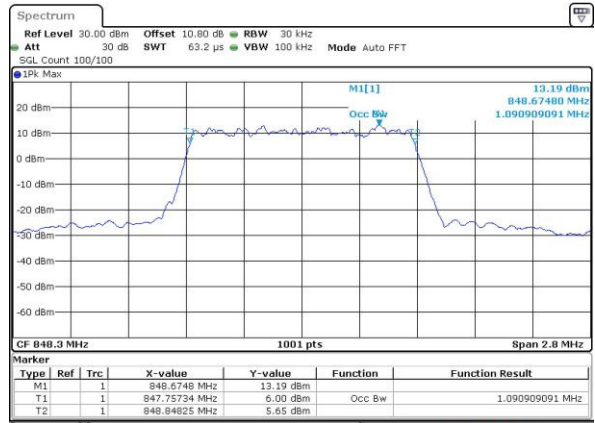
Date: 9 JAN 2017 09:20:56

Highest Channel / 1.4MHz / QPSK



Date: 9 JAN 2017 09:23:16

Highest Channel / 1.4MHz / 16QAM

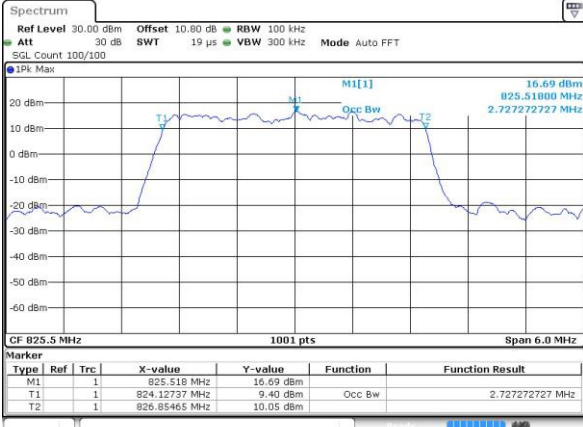


Date: 9 JAN 2017 09:23:26



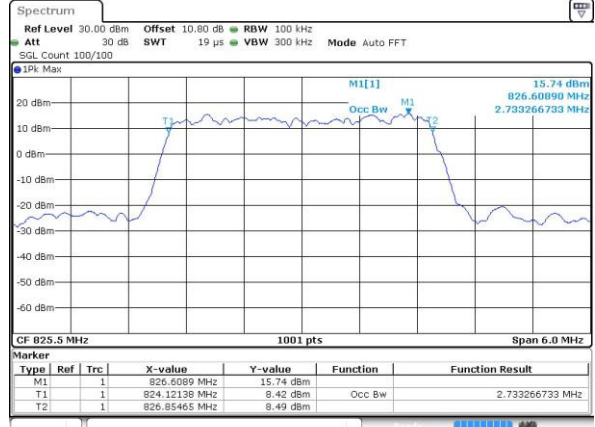
LTE Band 5

Lowest Channel / 3MHz / QPSK



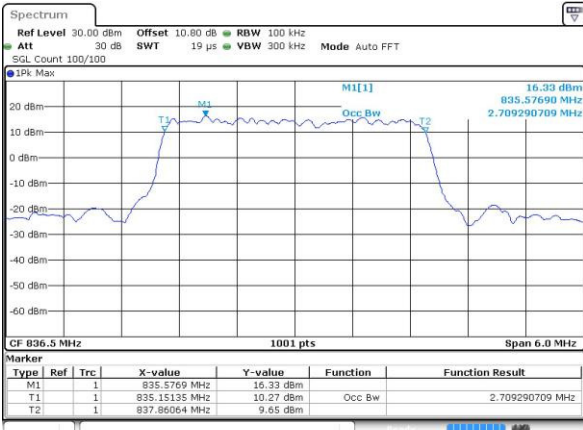
Date: 8 JAN 2017 23:01:28

Lowest Channel / 3MHz / 16QAM



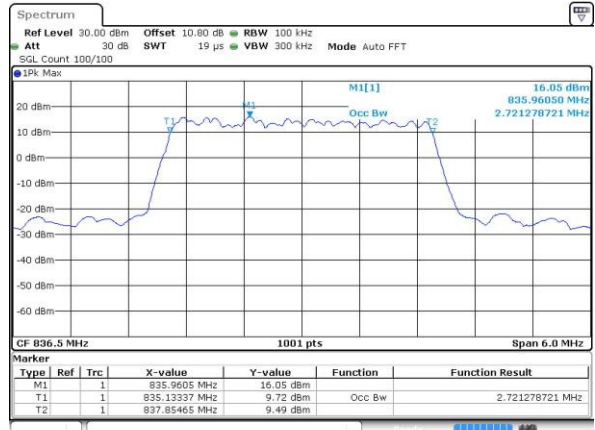
Date: 8 JAN 2017 23:01:38

Middle Channel / 3MHz / QPSK



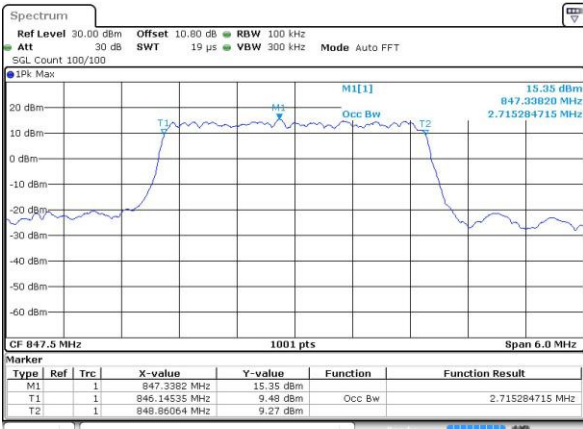
Date: 8 JAN 2017 23:10:34

Middle Channel / 3MHz / 16QAM



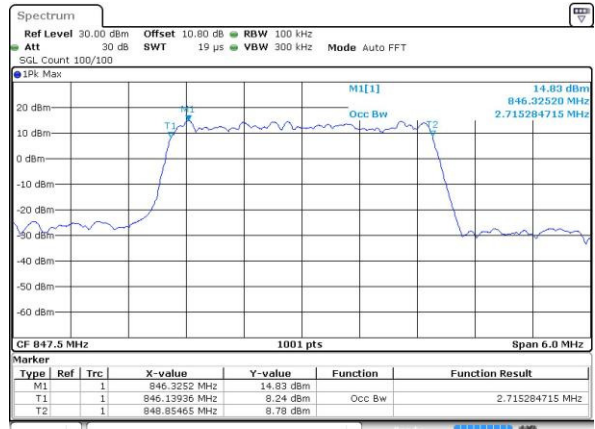
Date: 8 JAN 2017 23:10:45

Highest Channel / 3MHz / QPSK



Date: 8 JAN 2017 23:13:04

Highest Channel / 3MHz / 16QAM

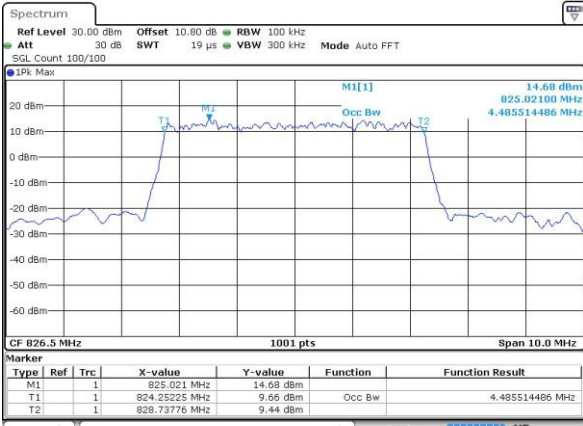


Date: 8 JAN 2017 23:13:15



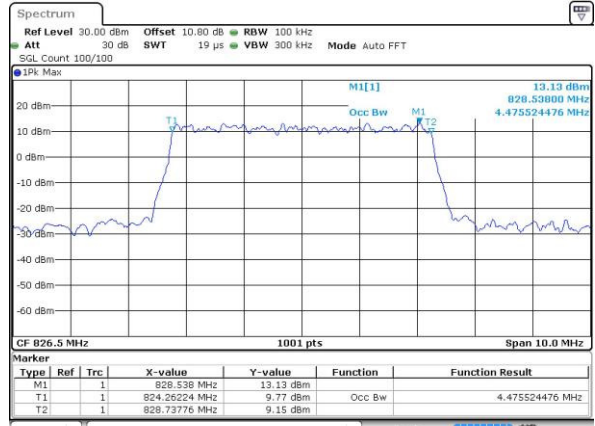
LTE Band 5

Lowest Channel / 5MHz / QPSK



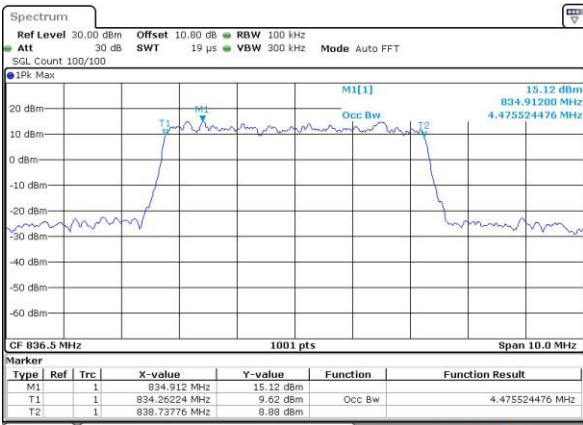
Date: 8 JAN 2017 23:22:11

Lowest Channel / 5MHz / 16QAM



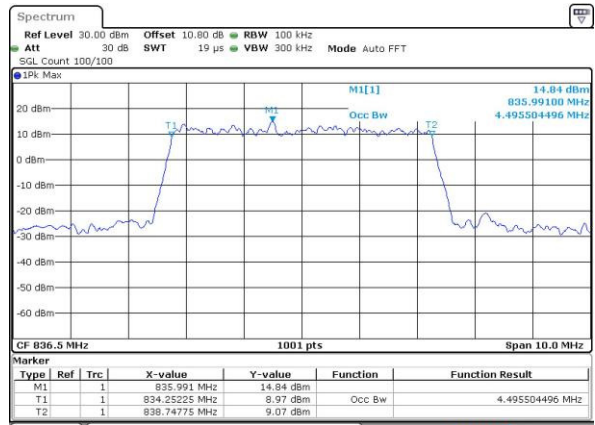
Date: 8 JAN 2017 23:22:21

Middle Channel / 5MHz / QPSK



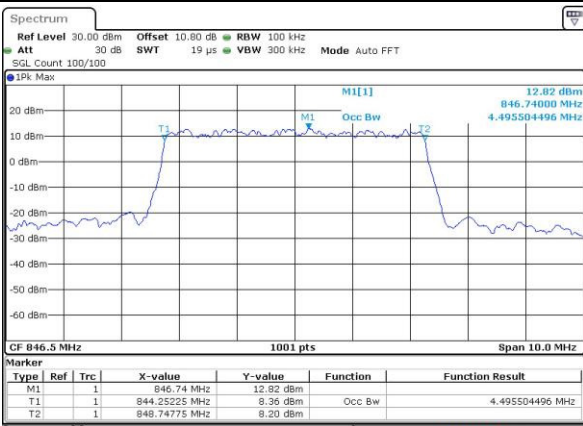
Date: 8 JAN 2017 23:31:17

Middle Channel / 5MHz / 16QAM



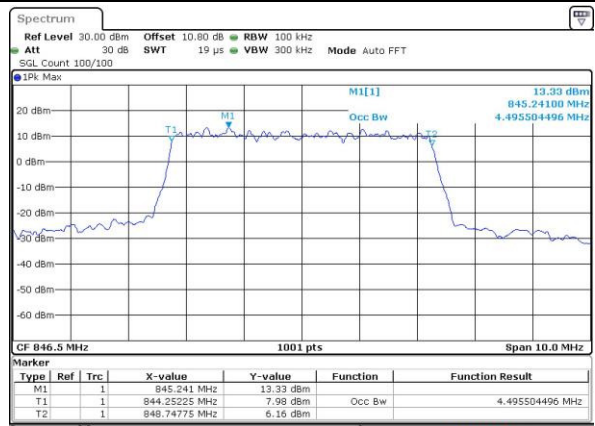
Date: 8 JAN 2017 23:32:08

Highest Channel / 5MHz / QPSK



Date: 8 JAN 2017 23:34:28

Highest Channel / 5MHz / 16QAM

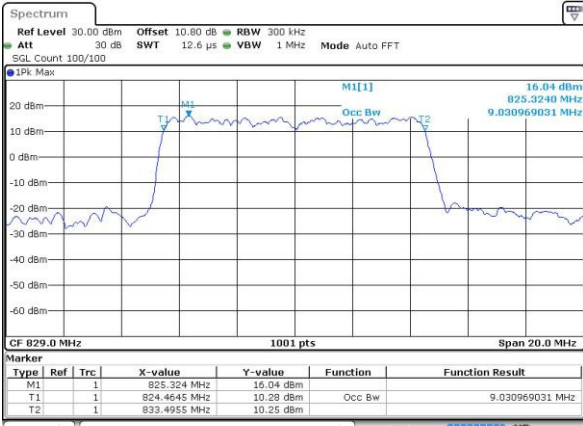


Date: 8 JAN 2017 23:34:38



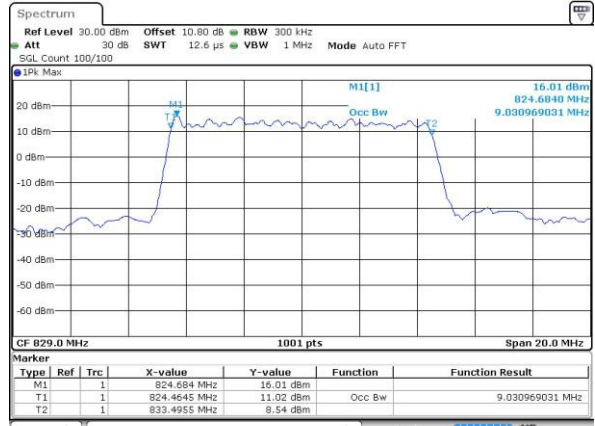
LTE Band 5

Lowest Channel / 10MHz / QPSK



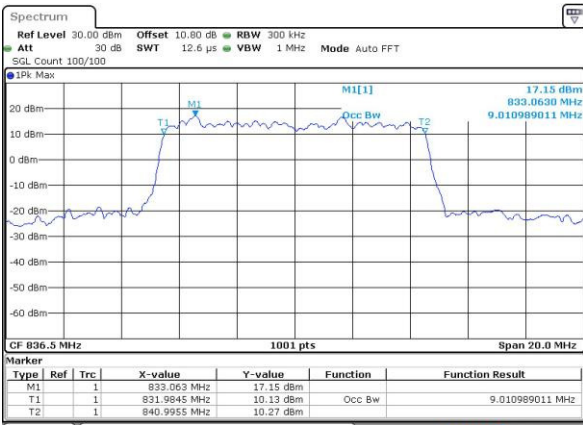
Date: 8 JAN 2017 23:43:34

Lowest Channel / 10MHz / 16QAM



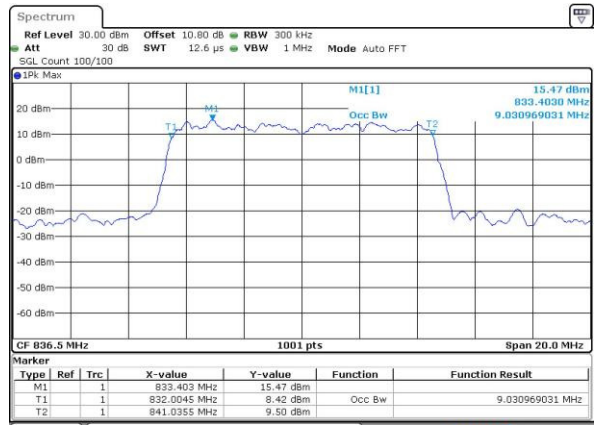
Date: 8 JAN 2017 23:43:44

Middle Channel / 10MHz / QPSK



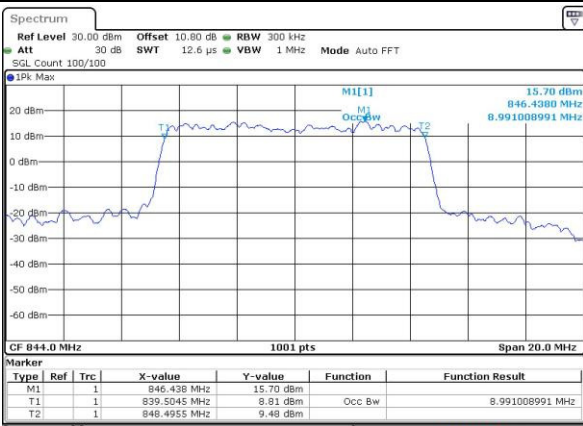
Date: 8 JAN 2017 23:52:40

Middle Channel / 10MHz / 16QAM



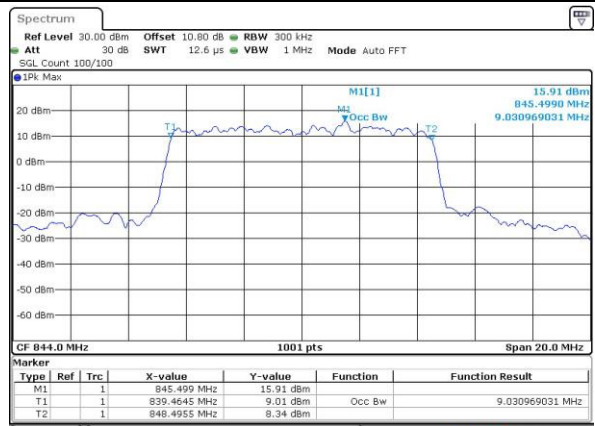
Date: 8 JAN 2017 23:52:51

Highest Channel / 10MHz / QPSK



Date: 8 JAN 2017 23:55:10

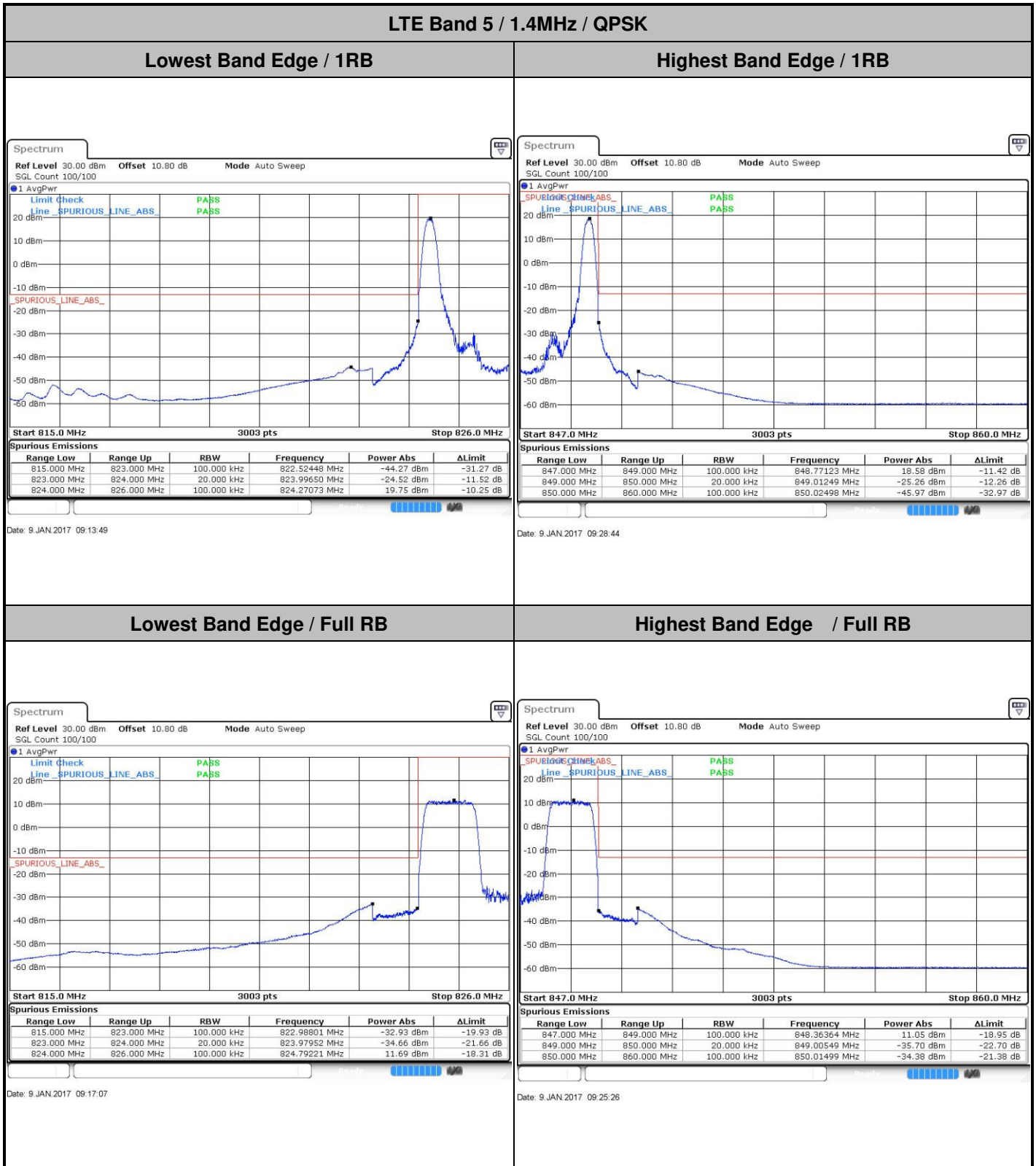
Highest Channel / 10MHz / 16QAM



Date: 8 JAN 2017 23:55:20



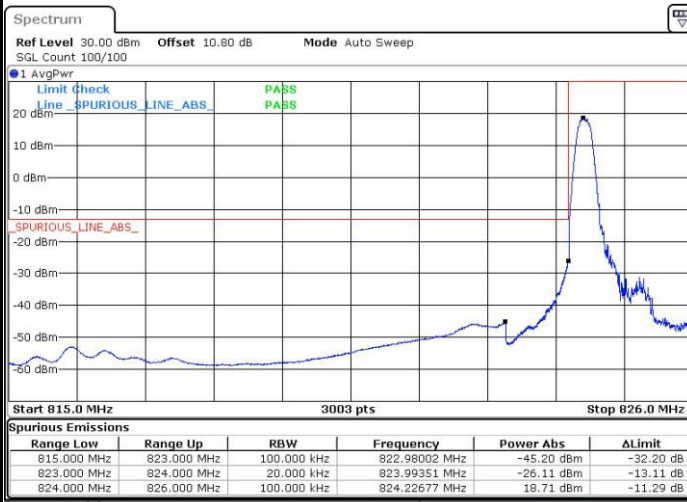
Conducted Band Edge





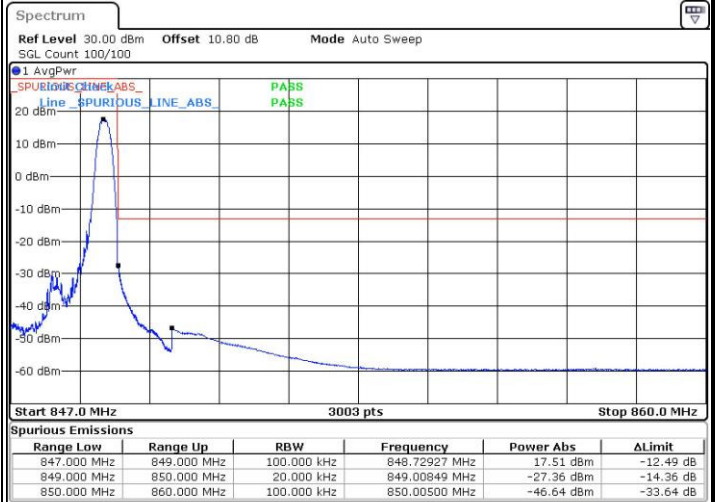
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



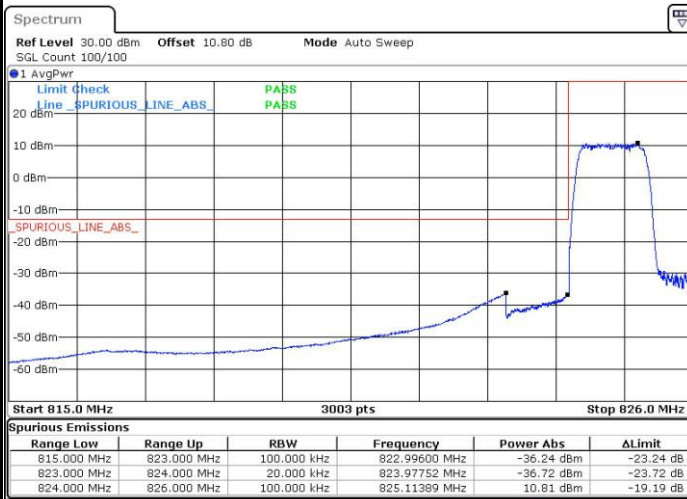
Date: 9 JAN 2017 09:15:28

Highest Band Edge / 1 RB



Date: 9 JAN 2017 09:30:24

Lowest Band Edge / Full RB



Date: 9 JAN 2017 09:18:46

Highest Band Edge / Full RB

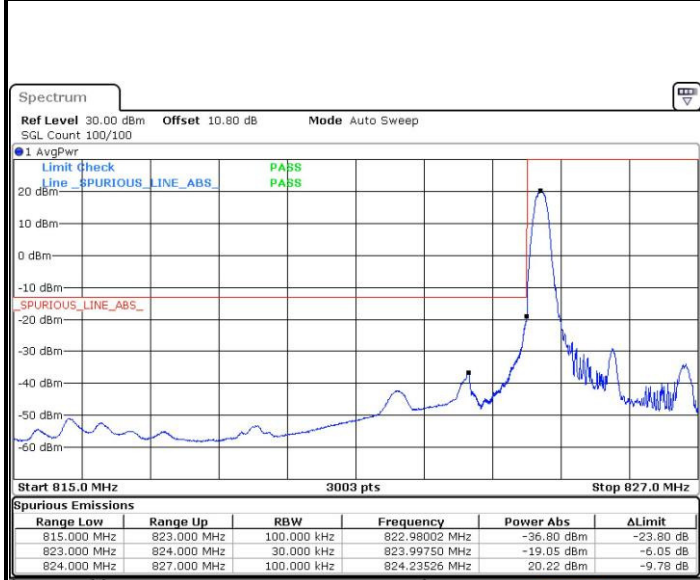


Date: 9 JAN 2017 09:27:05



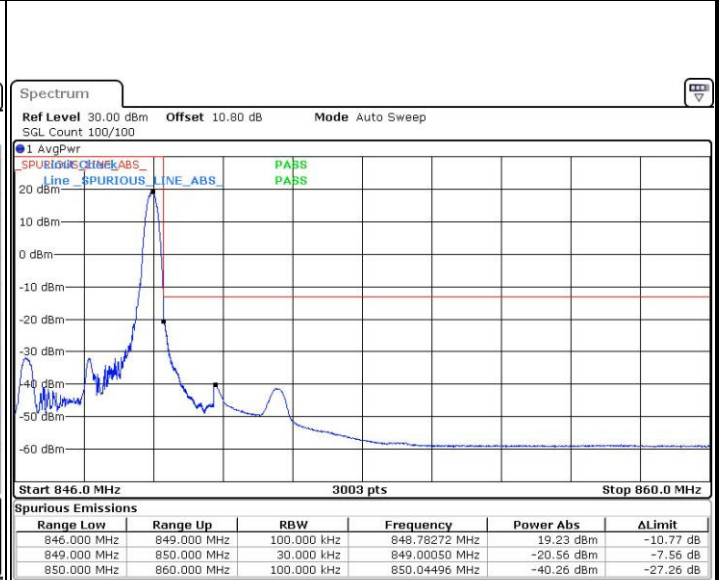
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



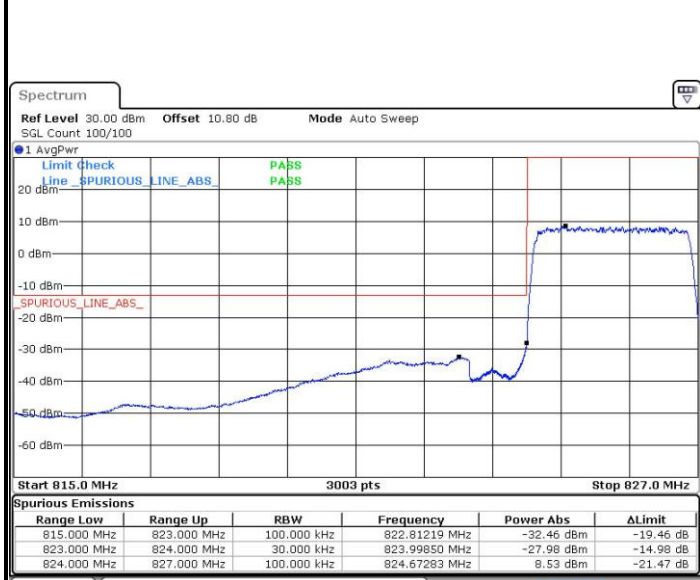
Date: 8 JAN 2017 23:03:37

Highest Band Edge / 1 RB



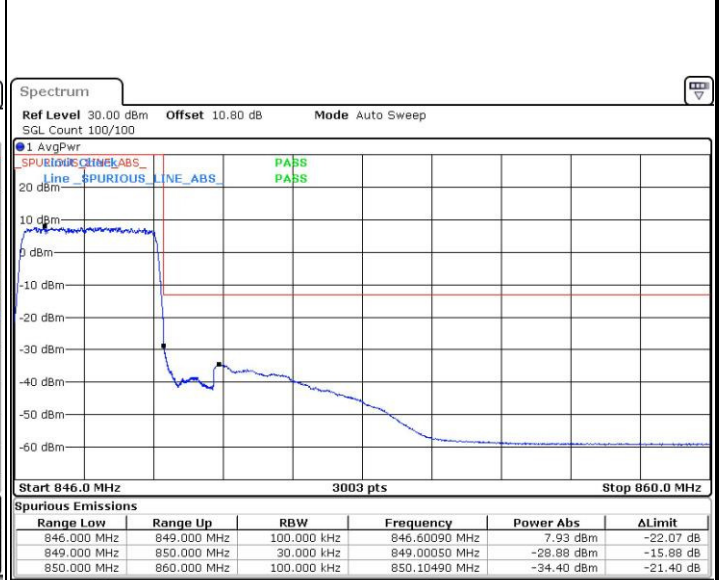
Date: 8 JAN 2017 23:15:14

Lowest Band Edge / Full RB



Date: 8 JAN 2017 23:06:56

Highest Band Edge / Full RB

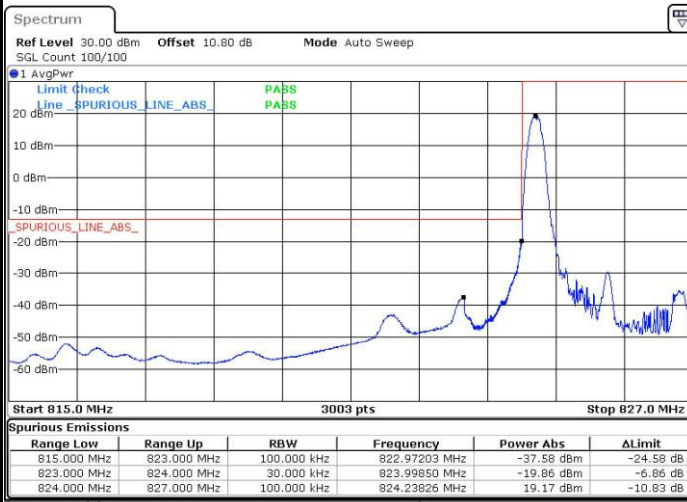


Date: 8 JAN 2017 23:18:32



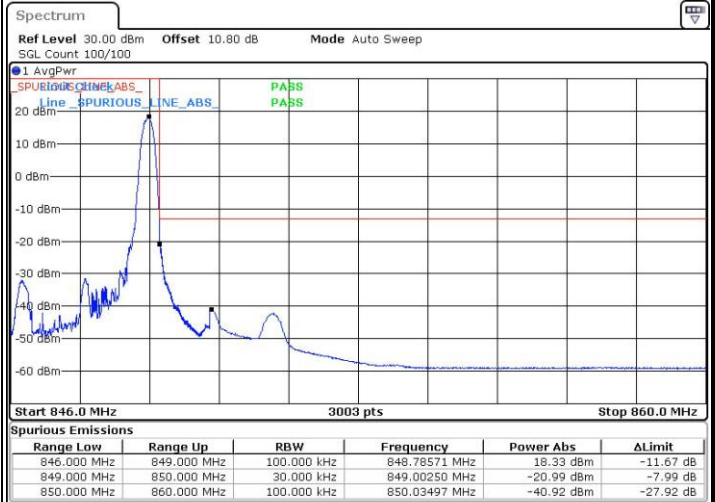
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



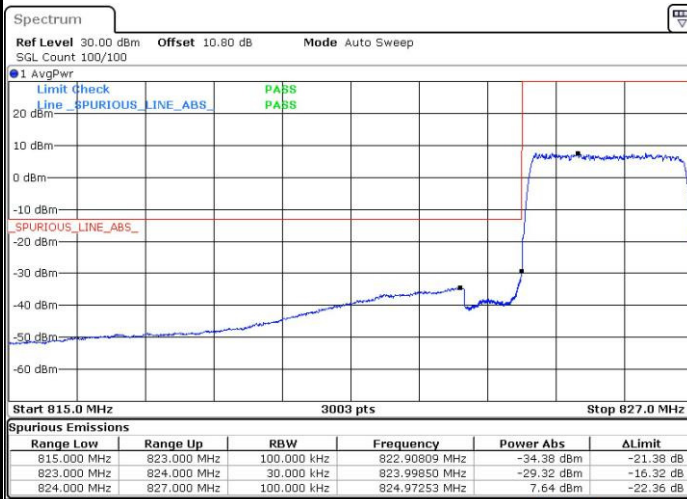
Date: 8 JAN 2017 23:05:17

Highest Band Edge / 1 RB



Date: 8 JAN 2017 23:16:53

Lowest Band Edge / Full RB



Date: 8 JAN 2017 23:08:35

Highest Band Edge / Full RB

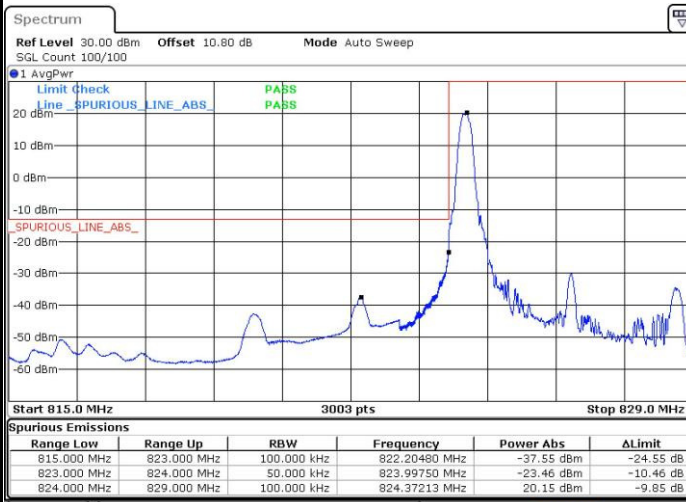


Date: 8 JAN 2017 23:20:11



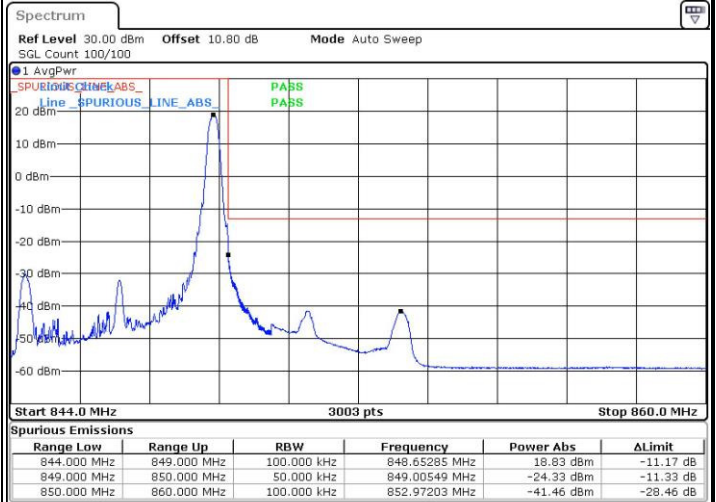
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



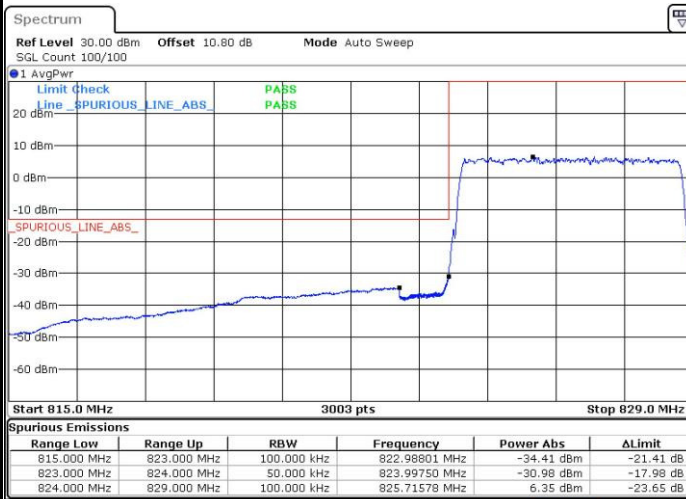
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Highest Band Edge / 1 RB



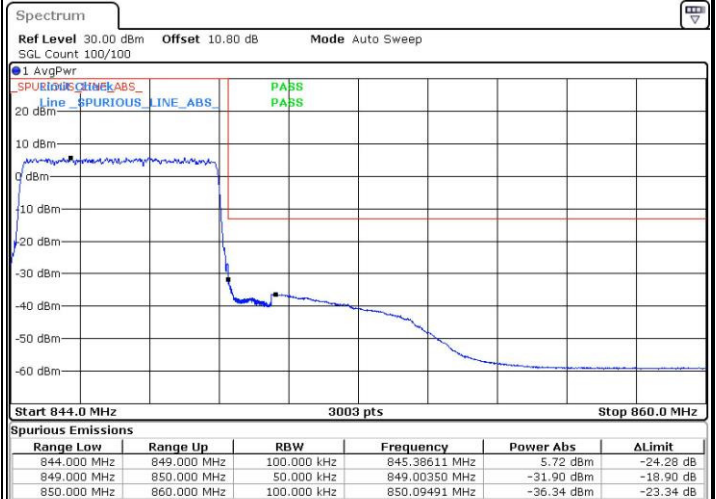
Date: 8 JAN 2017 23:36:37

Lowest Band Edge / Full RB



Date: 8 JAN 2017 23:27:39

Highest Band Edge / Full RB



Date: 8 JAN 2017 23:39:55