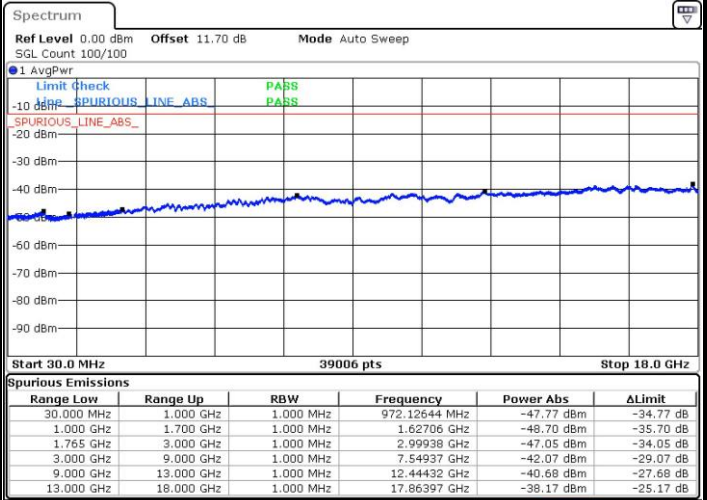
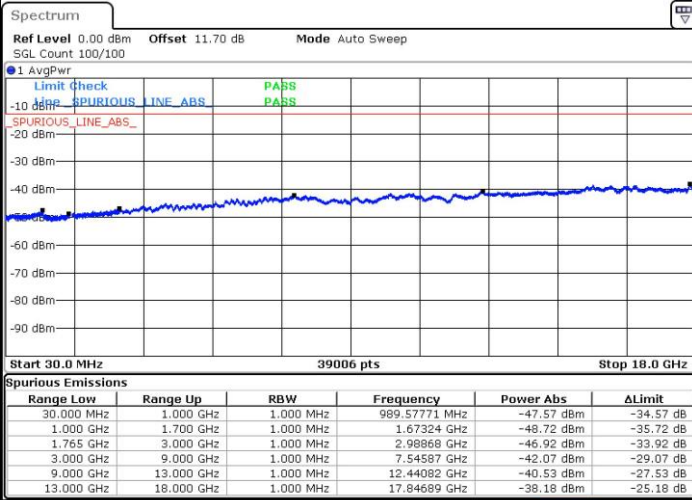




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



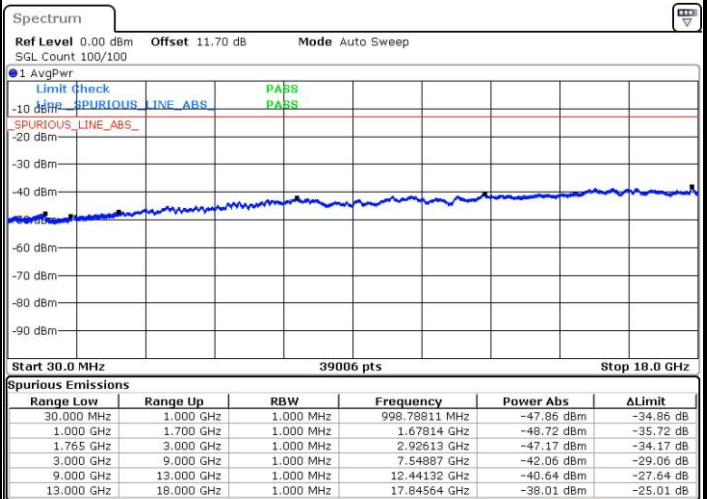
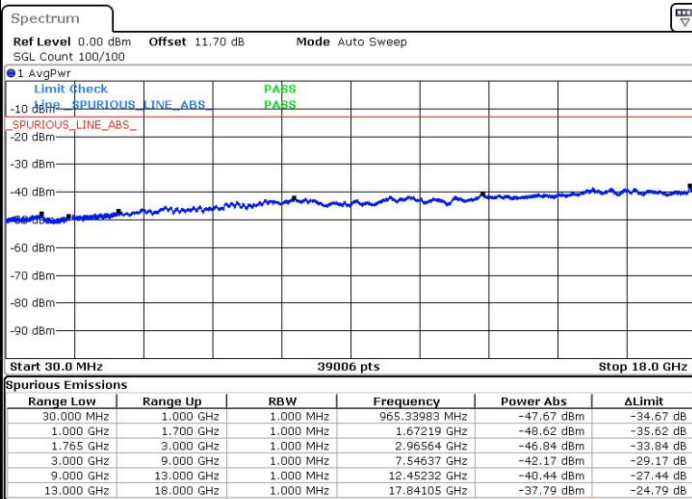
Date: 25 APR 2018 01:59:12

Date: 25 APR 2018 02:00:07

LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 25 APR 2018 00:24:48

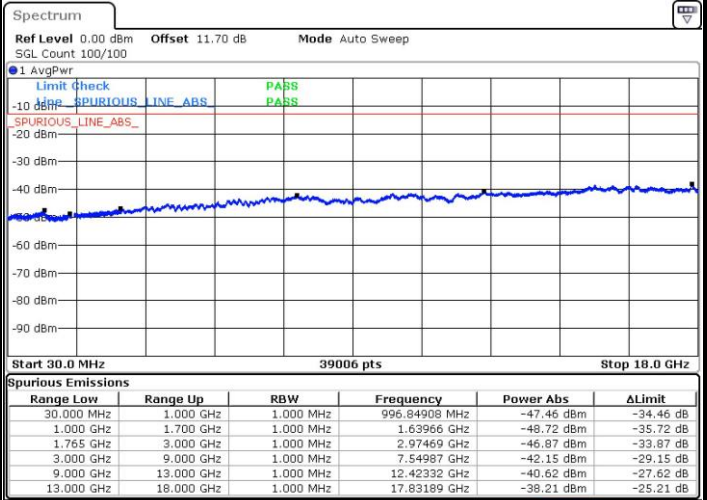
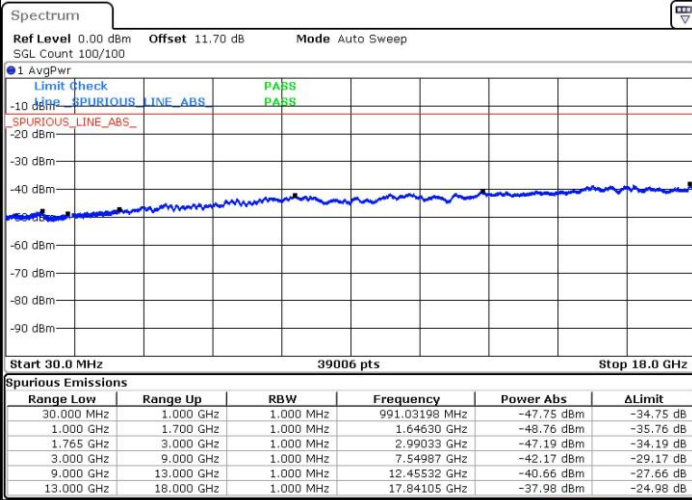
Date: 25 APR 2018 00:25:43



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

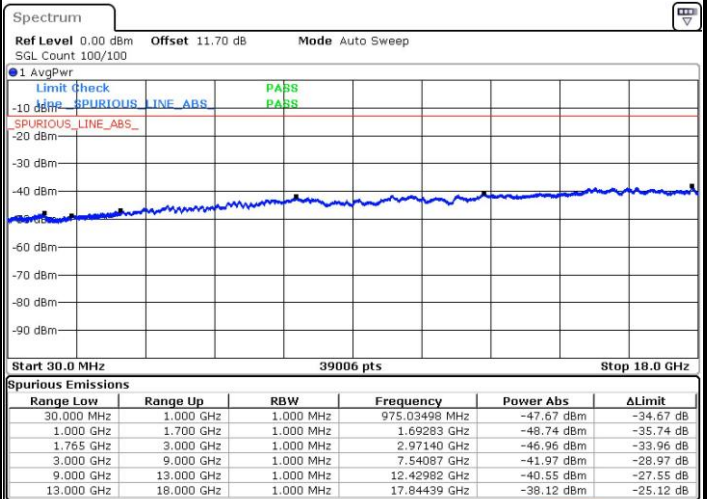
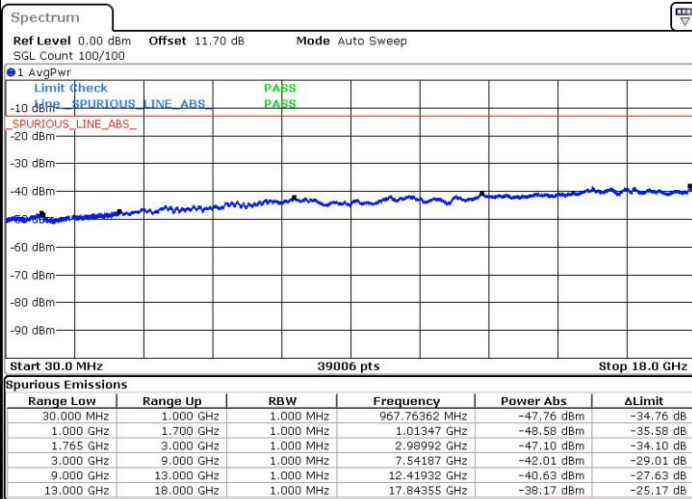


Date: 25 APR 2018 00:27:21

Date: 25 APR 2018 00:28:16

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 APR 2018 00:34:33

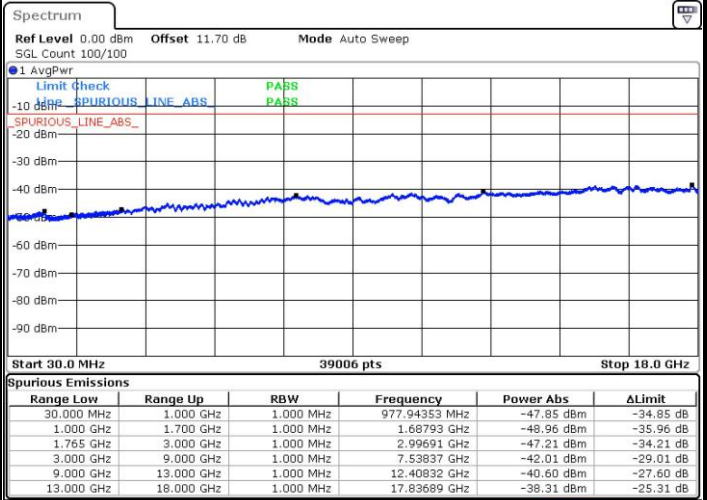
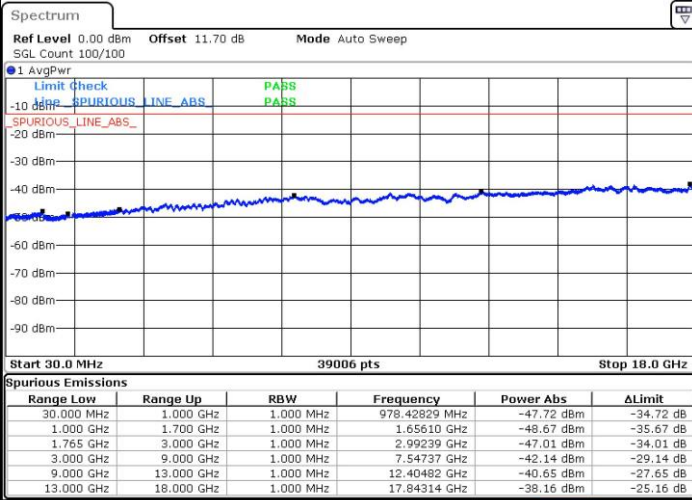
Date: 25 APR 2018 00:35:28



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

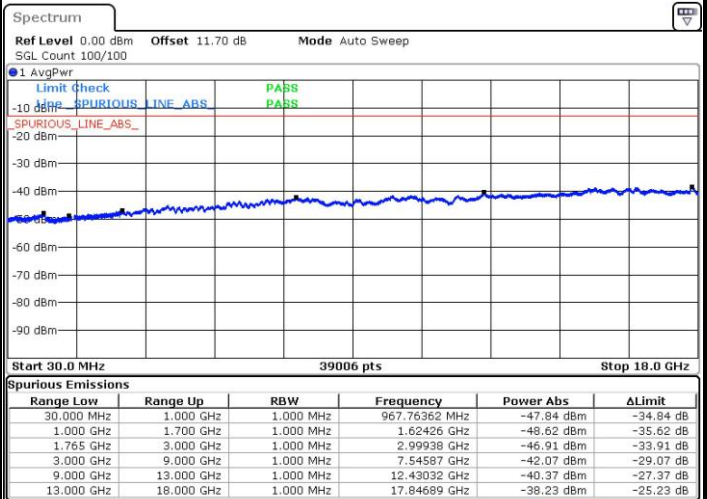
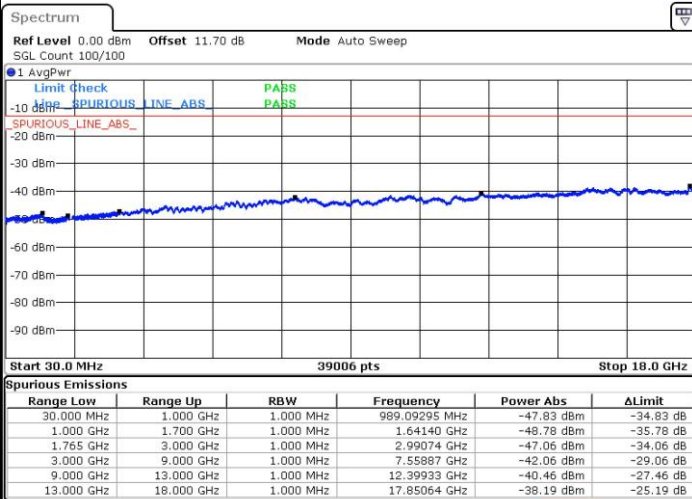


Date: 25 APR 2018 00:41:44

Date: 25 APR 2018 00:42:39

Middle Channel / QPSK

Middle Channel / 16QAM



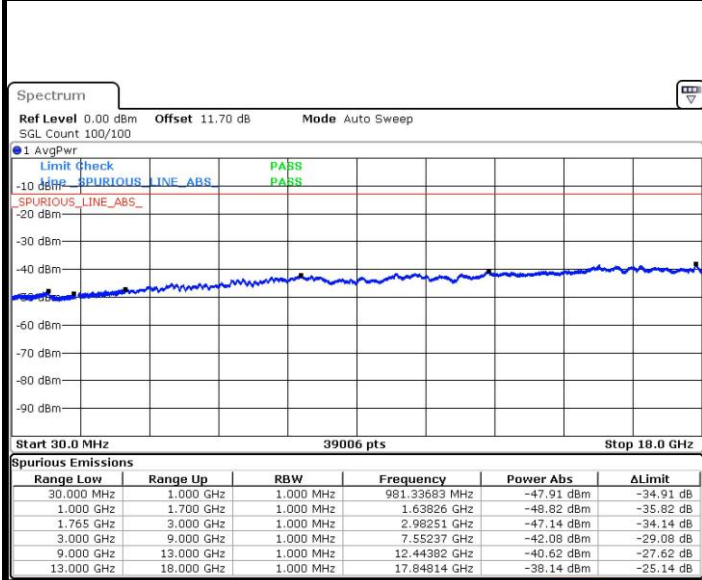
Date: 25 APR 2018 00:44:17

Date: 25 APR 2018 00:45:12



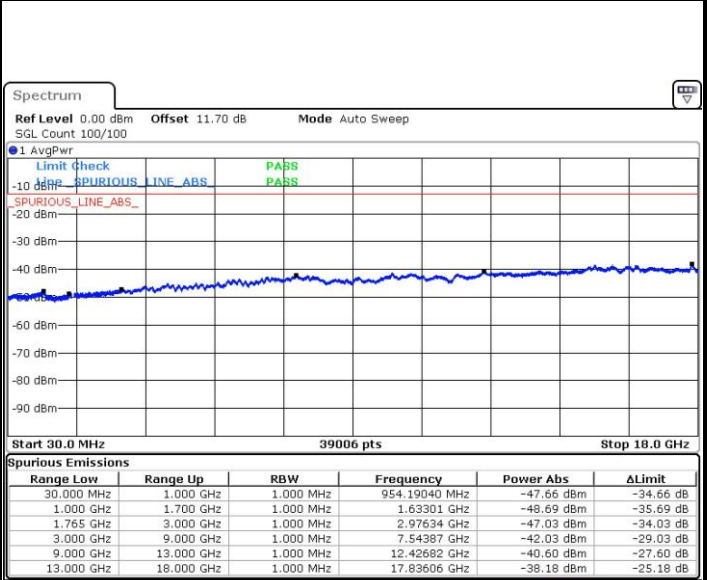
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 25 APR 2018 00:51:28

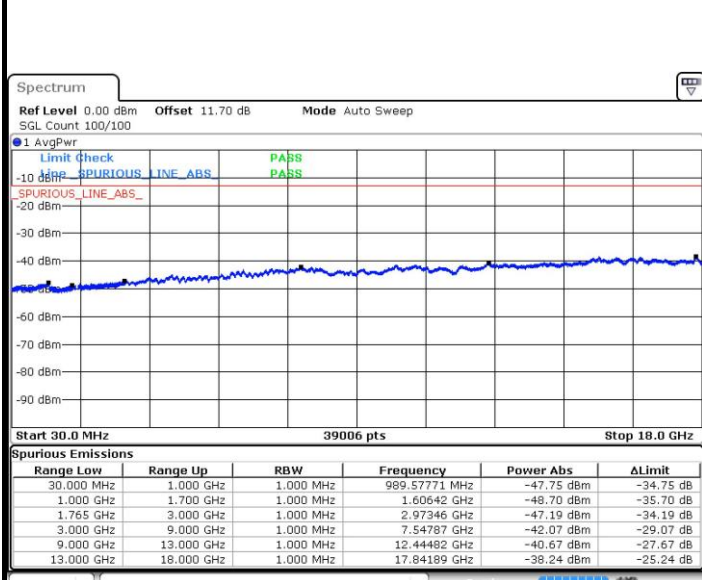
Highest Channel / 16QAM



Date: 25 APR 2018 00:52:23

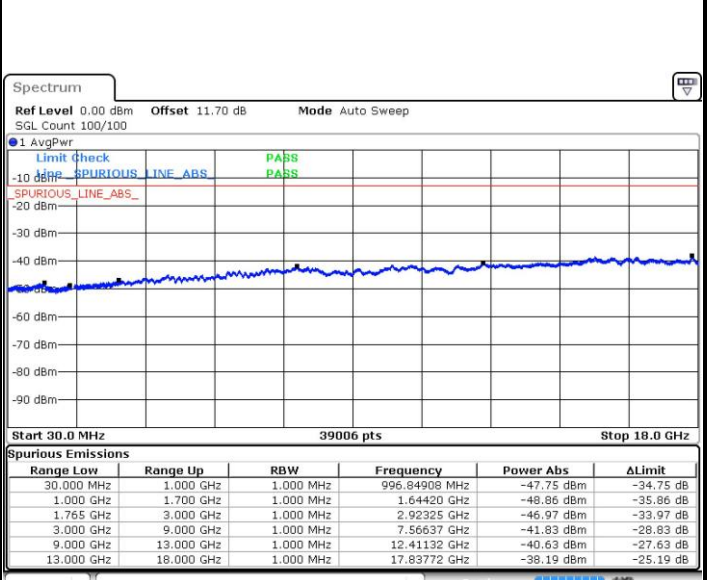
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 25 APR 2018 00:58:40

Lowest Channel / 16QAM



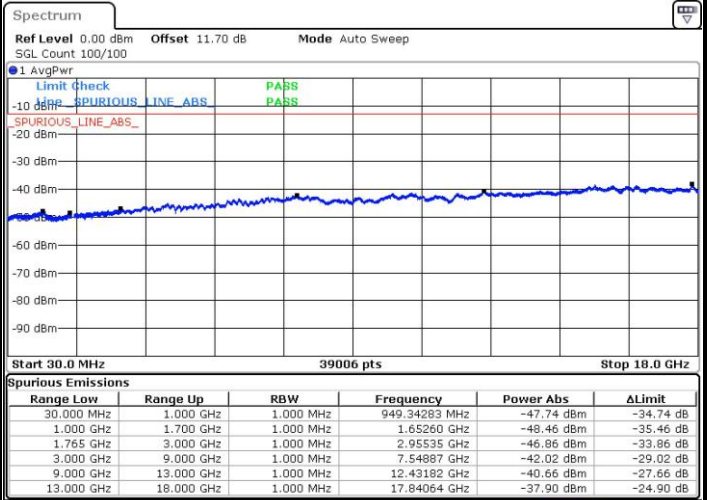
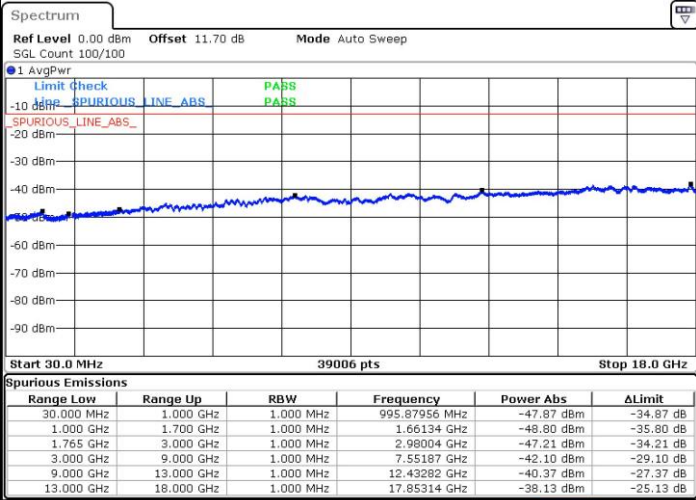
Date: 25 APR 2018 00:59:35



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

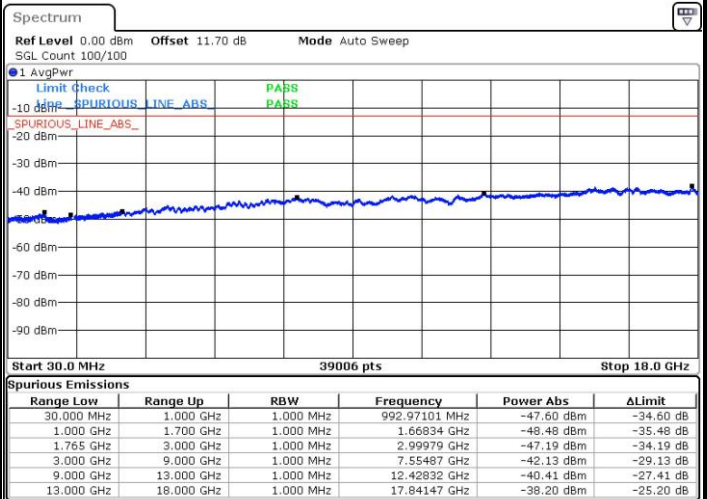
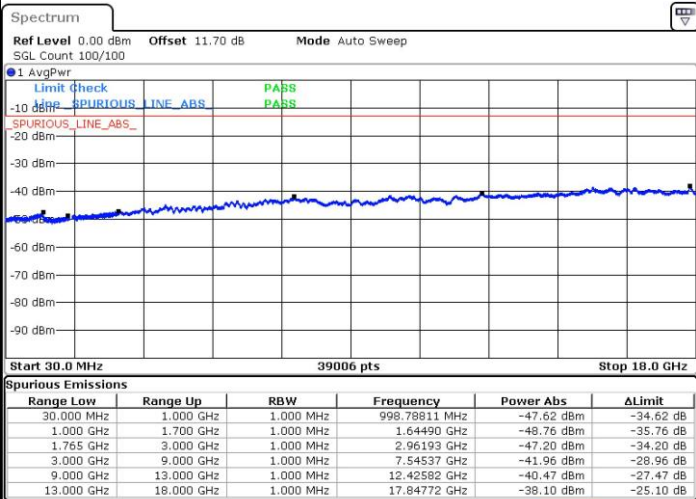


Date: 25 APR 2018 01:01:12

Date: 25 APR 2018 01:02:07

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 APR 2018 01:08:25

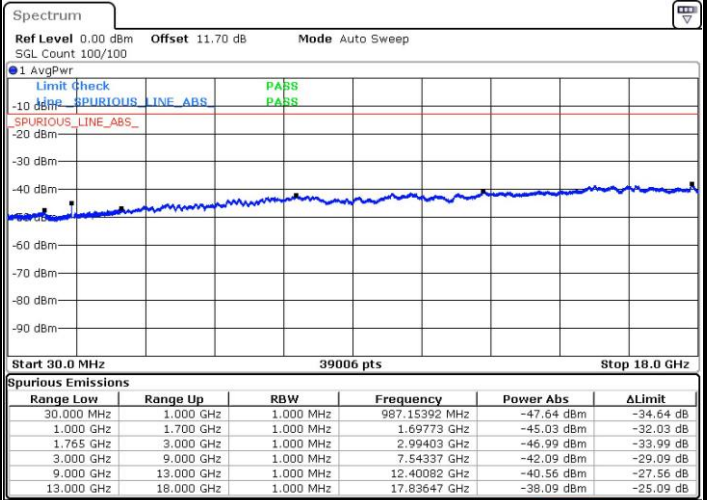
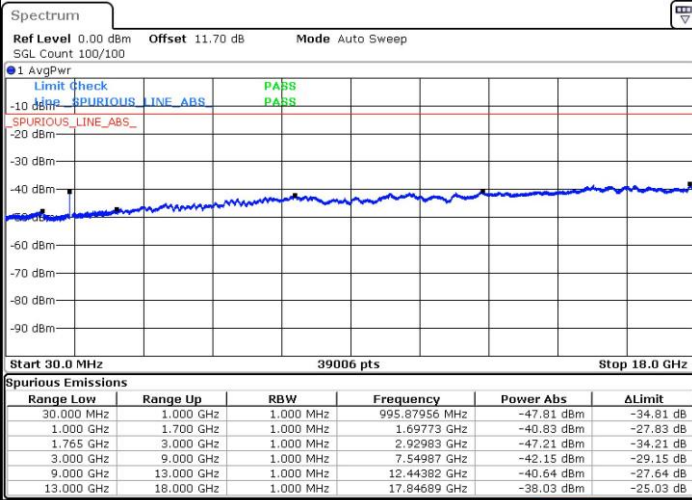
Date: 25 APR 2018 01:09:20



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

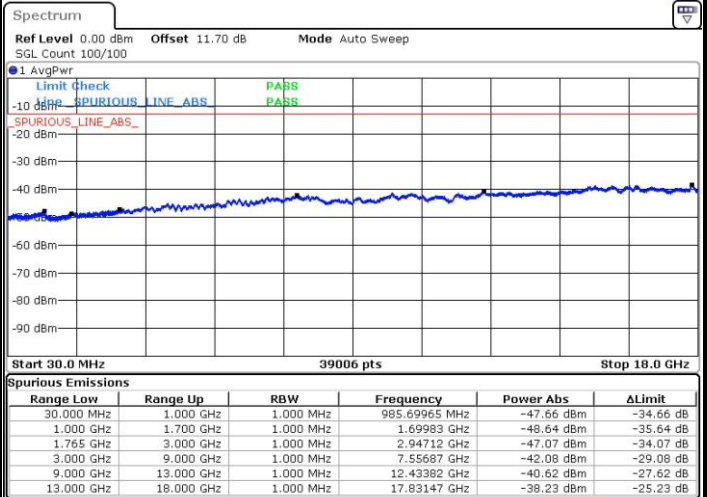
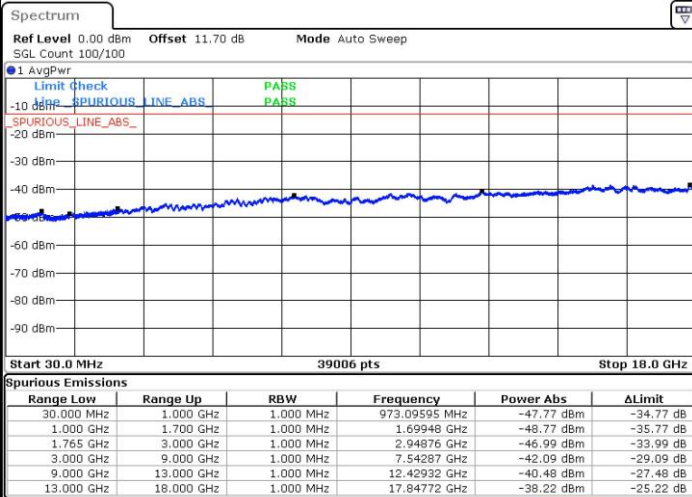


Date: 25 APR 2018 01:15:36

Date: 25 APR 2018 01:16:31

Middle Channel / QPSK

Middle Channel / 16QAM



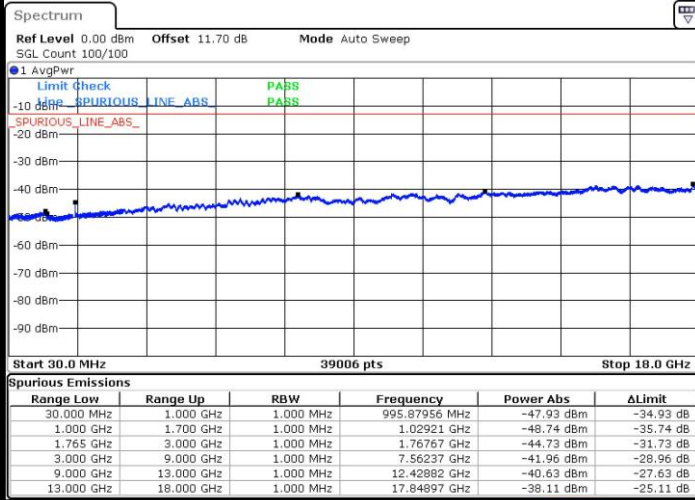
Date: 25 APR 2018 01:18:09

Date: 25 APR 2018 01:19:04



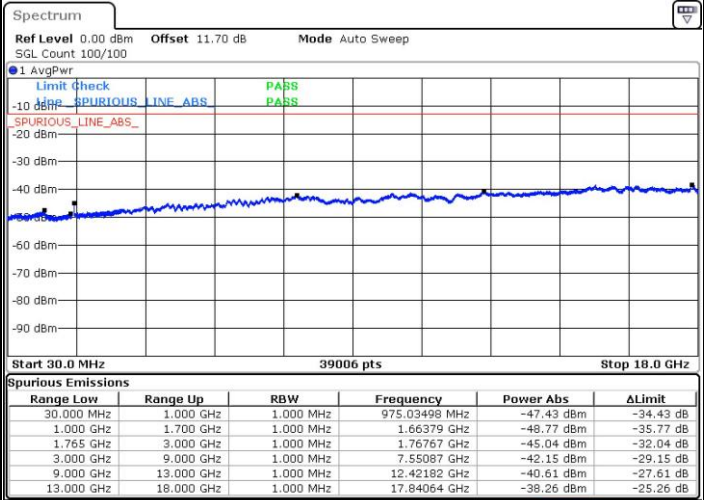
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 25 APR 2018 01:25:21

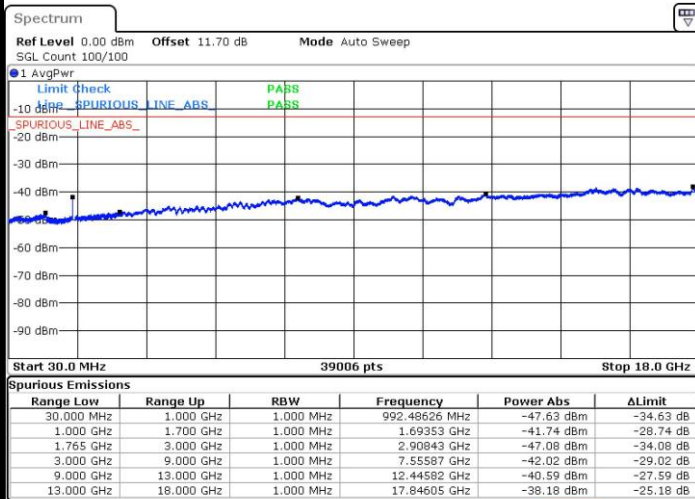
Highest Channel / 16QAM



Date: 25 APR 2018 01:26:16

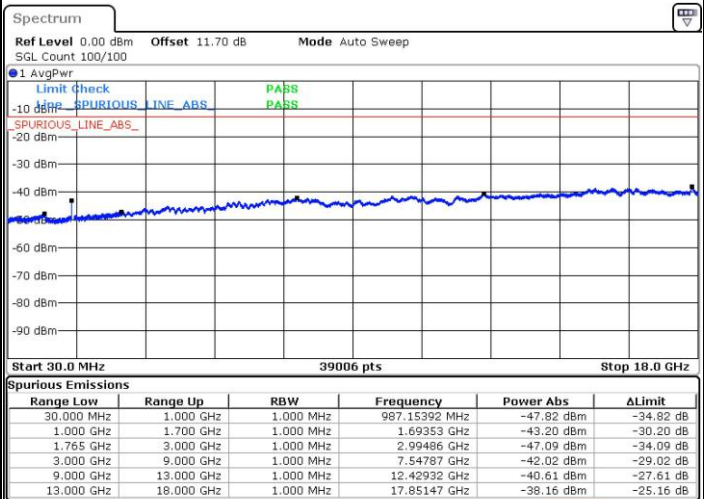
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 25 APR 2018 01:32:32

Lowest Channel / 16QAM



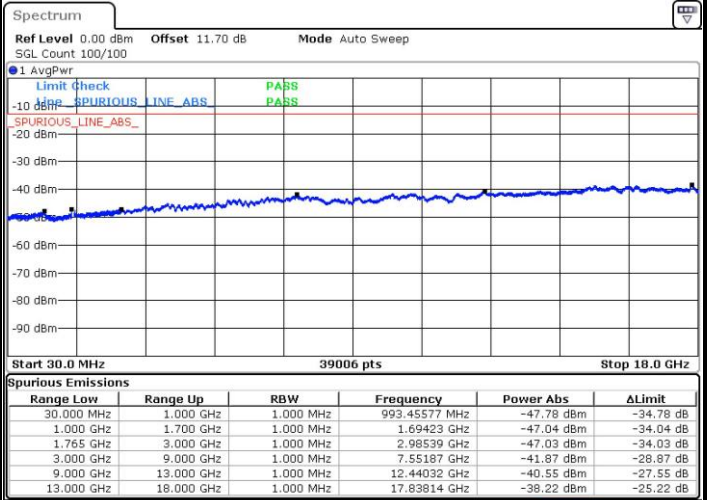
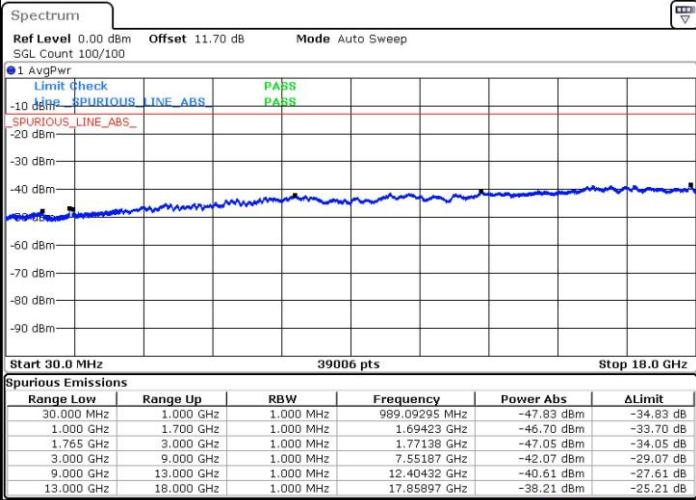
Date: 25 APR 2018 01:33:27



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

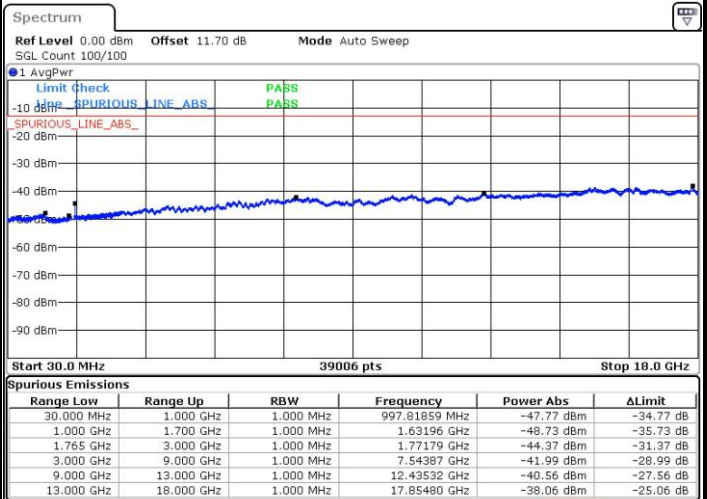
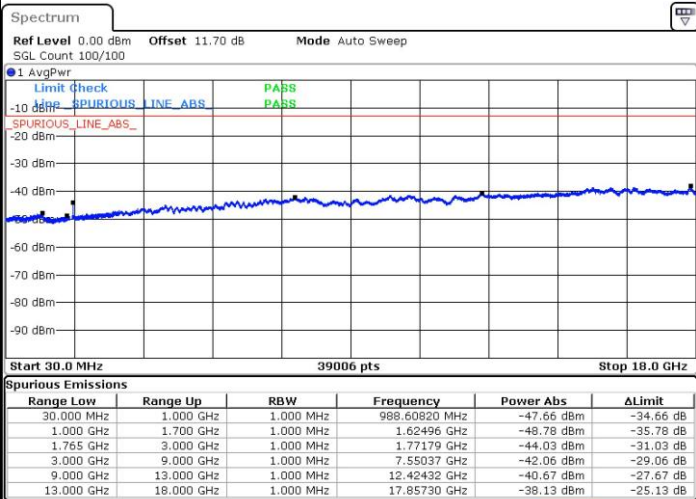


Date: 25 APR 2018 01:35:05

Date: 25 APR 2018 01:36:00

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 APR 2018 01:42:16

Date: 25 APR 2018 01:43:11





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	0.0012	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0039	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =11.4 V. ; Maximum Voltage =12.60 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	4.12	4.9	5.13	5.83	<b>PASS</b>
Middle CH	4.29	5.01	5.39	5.86	
Highest CH	4.2	4.93	5.19	5.86	



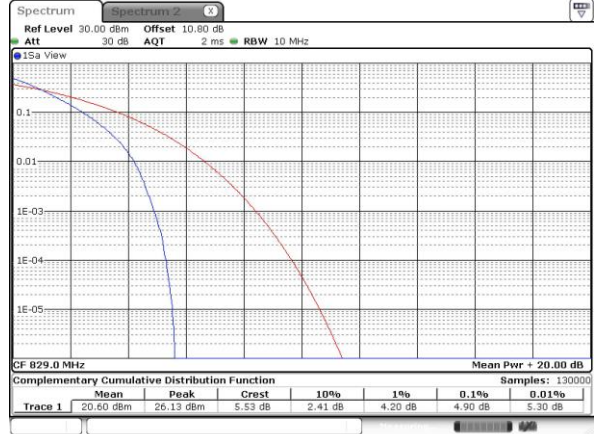
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



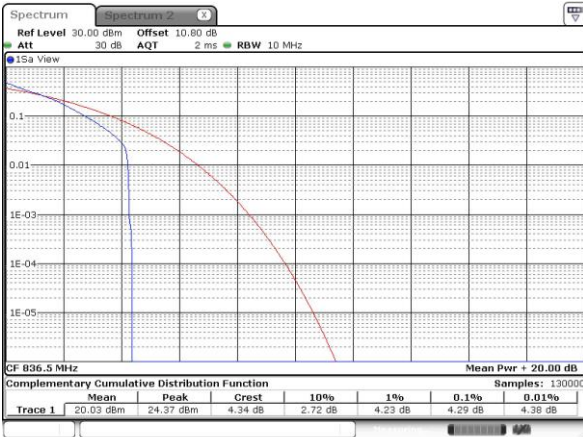
Date: 25 APR 2018 16:59:56

Lowest Channel / Full RB



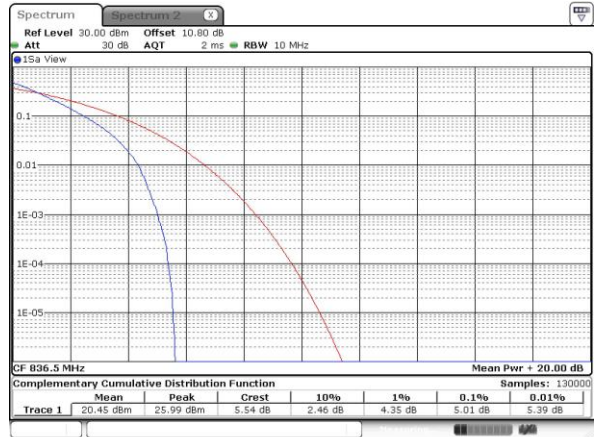
Date: 25 APR 2018 17:00:05

Middle Channel / 1RB



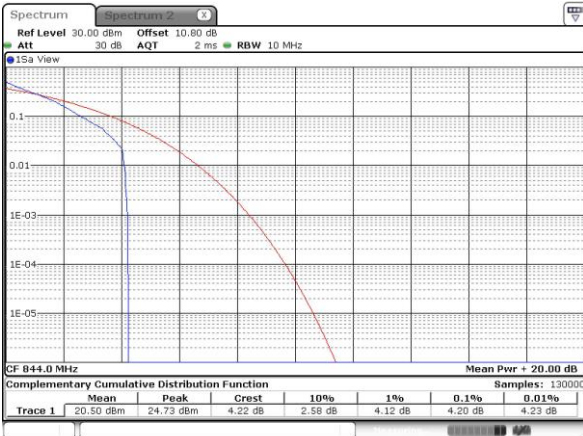
Date: 25 APR 2018 17:00:16

Middle Channel / Full RB



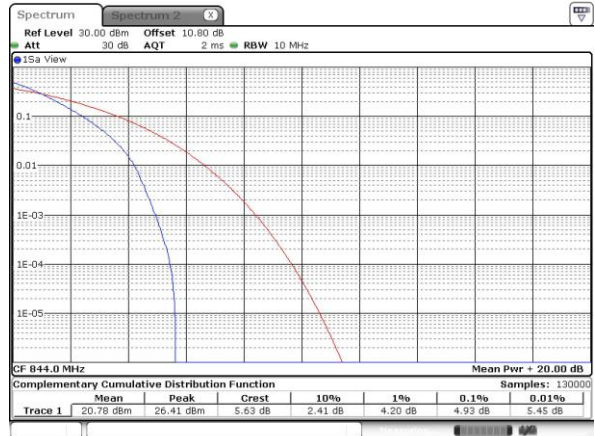
Date: 25 APR 2018 17:00:25

Highest Channel / 1RB



Date: 25 APR 2018 17:00:35

Highest Channel / Full RB



Date: 25 APR 2018 17:00:50



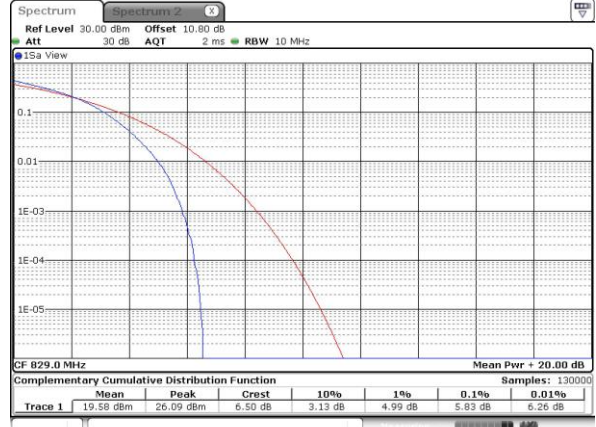
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



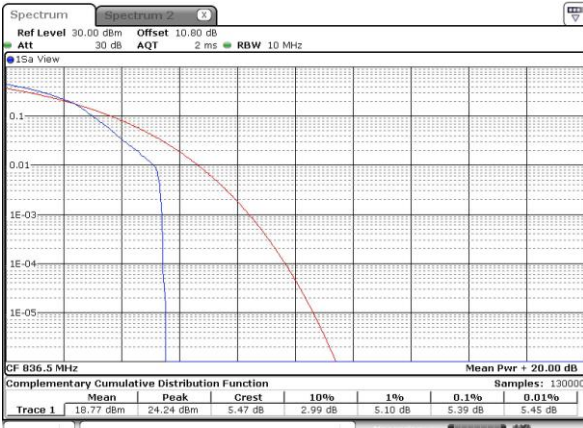
Date: 25 APR 2018 16:58:46

Lowest Channel / Full RB



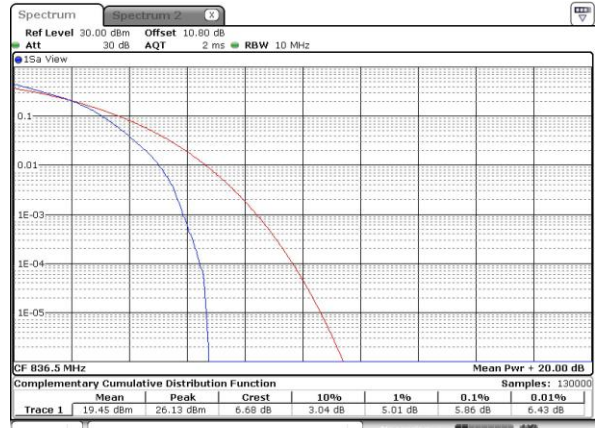
Date: 25 APR 2018 16:59:01

Middle Channel / 1RB



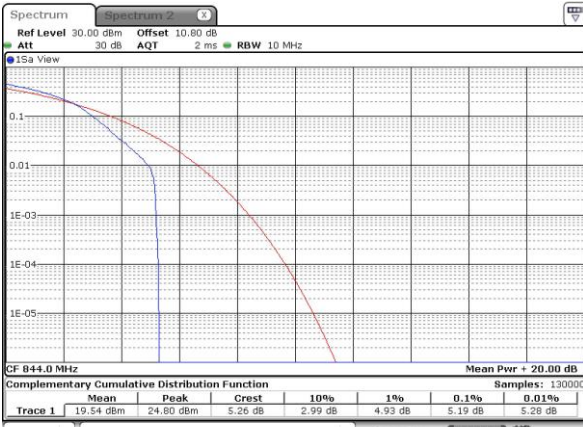
Date: 25 APR 2018 16:59:11

Middle Channel / Full RB



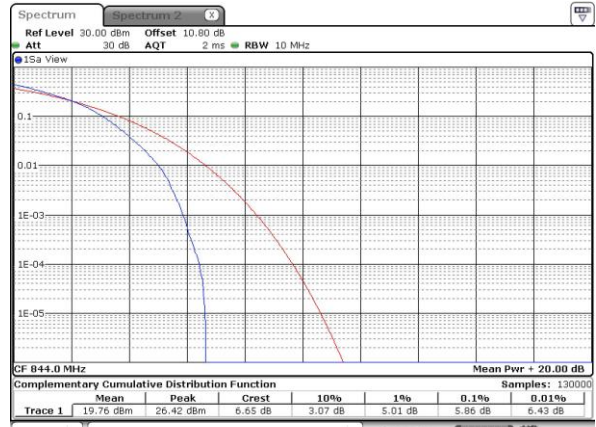
Date: 25 APR 2018 16:59:21

Highest Channel / 1RB



Date: 25 APR 2018 16:59:33

Highest Channel / Full RB



Date: 25 APR 2018 16:59:45



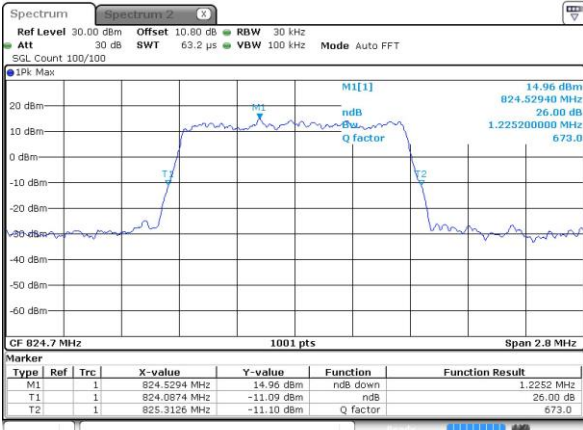
**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.23	3.03	3.07	4.82	4.90	9.83	9.75	-	-	-	-
Middle CH	1.22	1.23	3.03	2.99	4.90	4.85	9.77	9.79	-	-	-	-
Highest CH	1.23	1.23	3.02	3.00	4.94	4.87	9.77	9.83	-	-	-	-



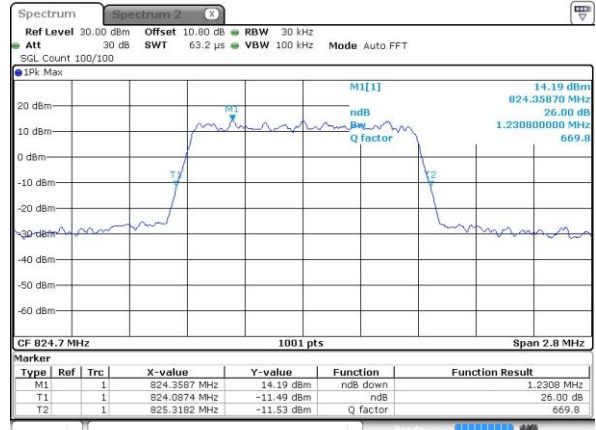
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



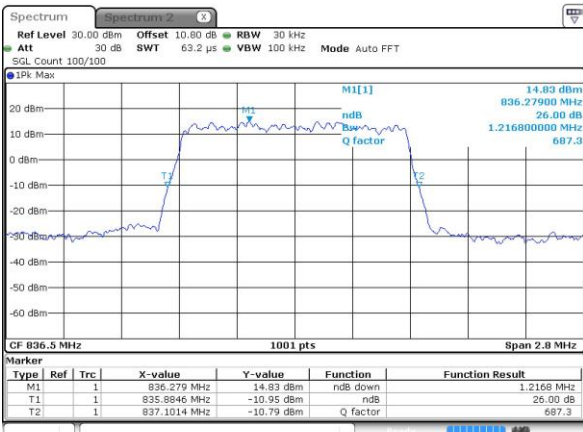
Date: 25 APR 2018 15:36:07

Lowest Channel / 1.4MHz / 16QAM



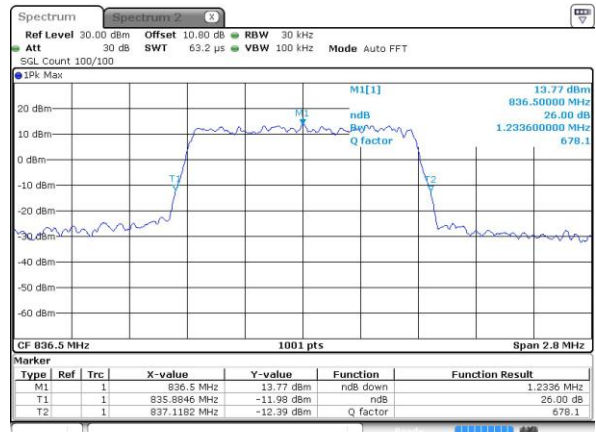
Date: 25 APR 2018 15:35:56

Middle Channel / 1.4MHz / QPSK



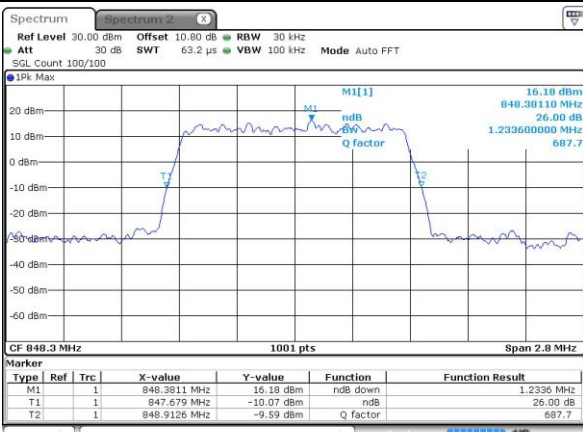
Date: 25 APR 2018 15:45:02

Middle Channel / 1.4MHz / 16QAM



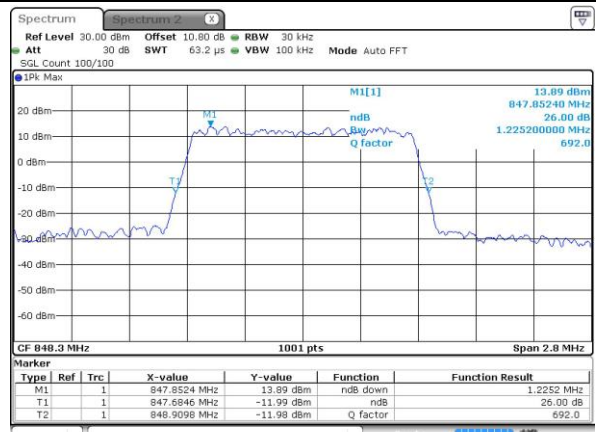
Date: 25 APR 2018 15:45:13

Highest Channel / 1.4MHz / QPSK



Date: 25 APR 2018 15:47:32

Highest Channel / 1.4MHz / 16QAM

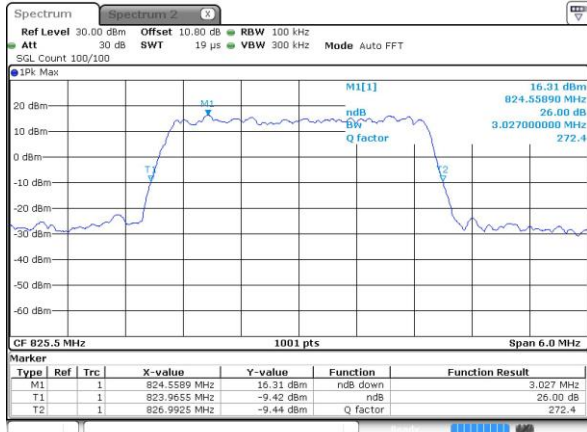


Date: 25 APR 2018 15:47:42



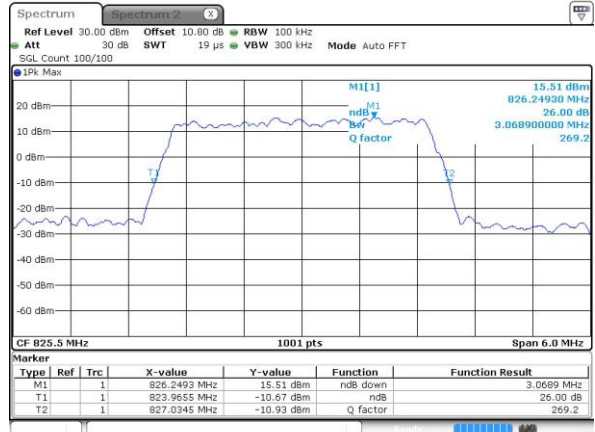
LTE Band 5

Lowest Channel / 3MHz / QPSK



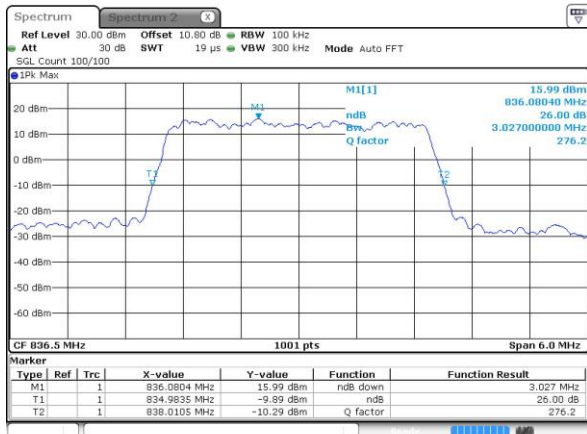
Date: 25 APR 2018 15:56:38

Lowest Channel / 3MHz / 16QAM



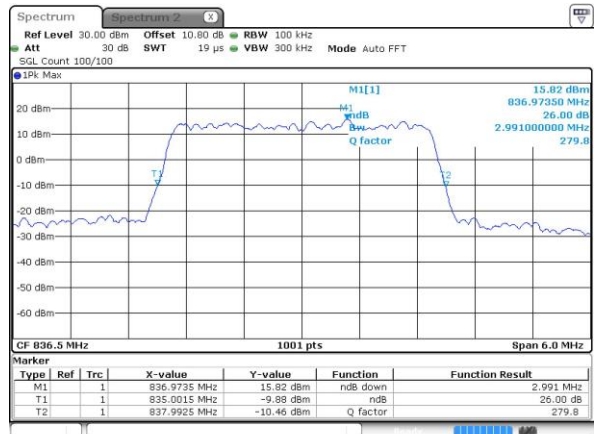
Date: 25 APR 2018 15:56:48

Middle Channel / 3MHz / QPSK



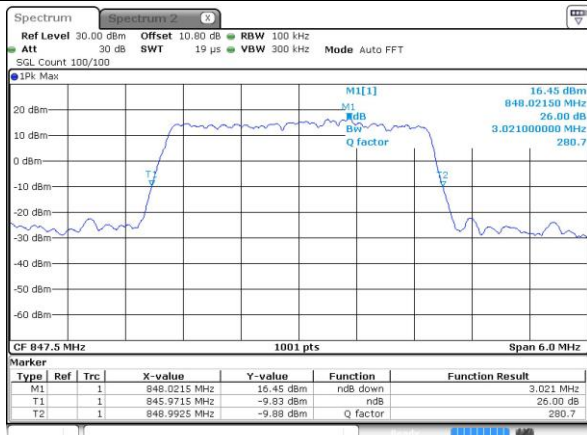
Date: 25 APR 2018 16:05:43

Middle Channel / 3MHz / 16QAM



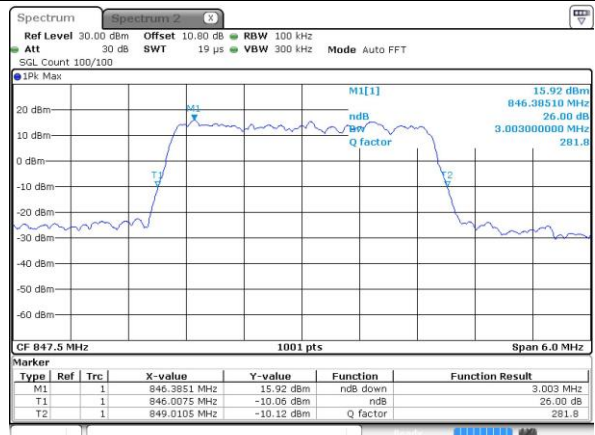
Date: 25 APR 2018 16:05:54

Highest Channel / 3MHz / QPSK



Date: 25 APR 2018 16:08:13

Highest Channel / 3MHz / 16QAM

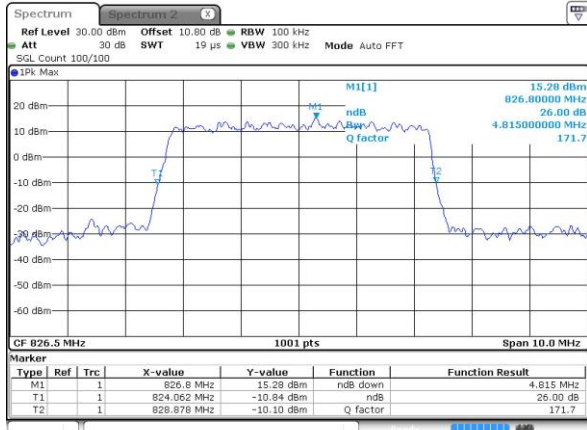


Date: 25 APR 2018 16:08:23



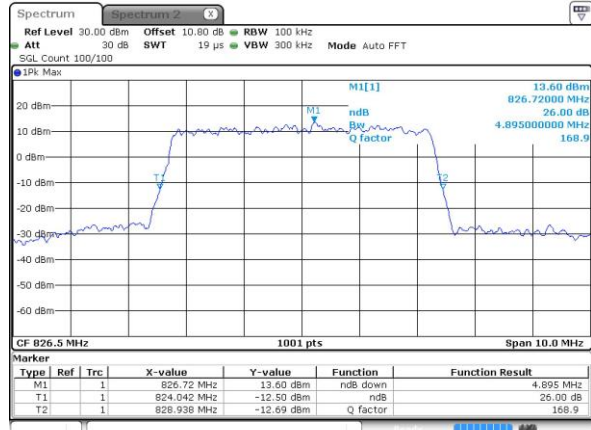
LTE Band 5

Lowest Channel / 5MHz / QPSK



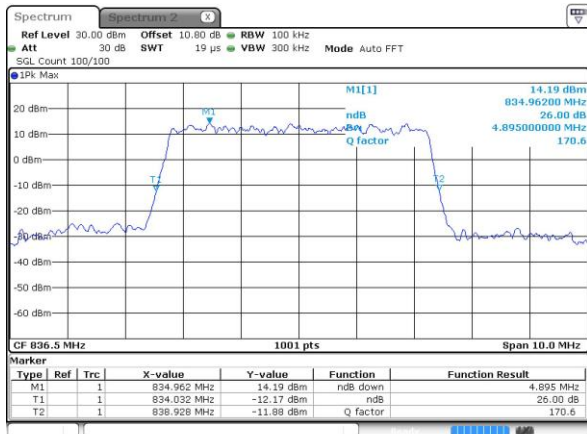
Date: 25 APR 2018 16:17:19

Lowest Channel / 5MHz / 16QAM



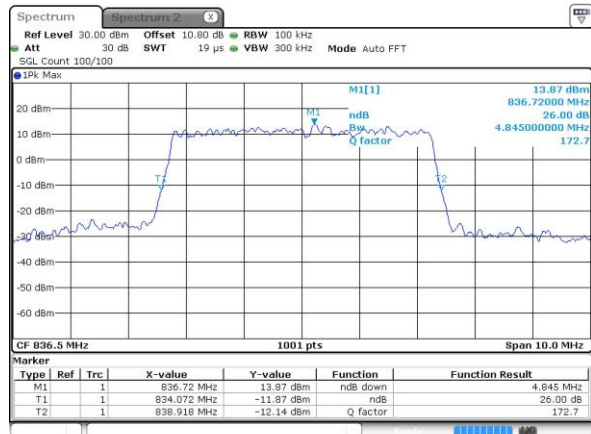
Date: 25 APR 2018 16:17:29

Middle Channel / 5MHz / QPSK



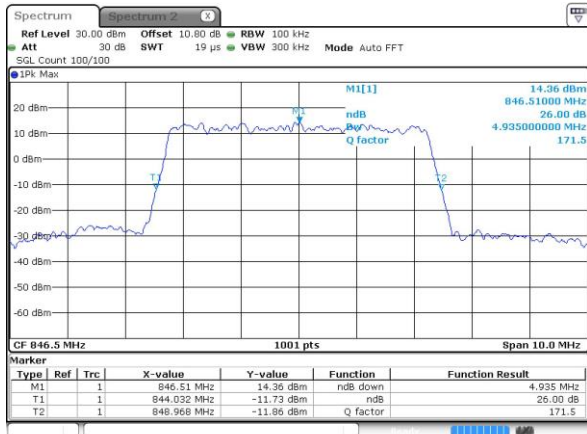
Date: 25 APR 2018 16:26:25

Middle Channel / 5MHz / 16QAM



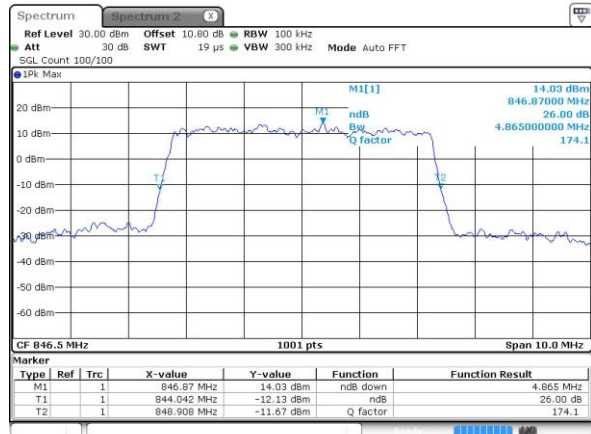
Date: 25 APR 2018 16:26:36

Highest Channel / 5MHz / QPSK



Date: 25 APR 2018 16:28:55

Highest Channel / 5MHz / 16QAM



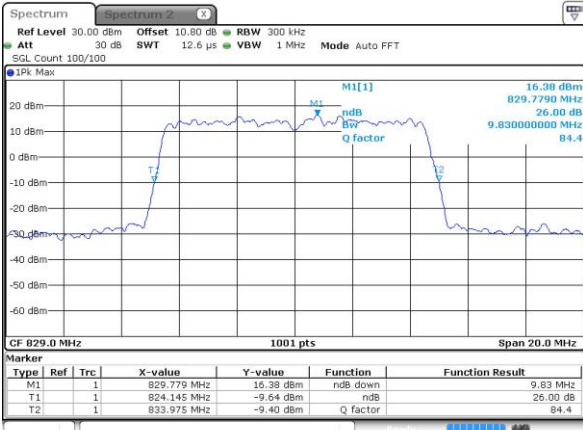
Date: 25 APR 2018 16:29:05





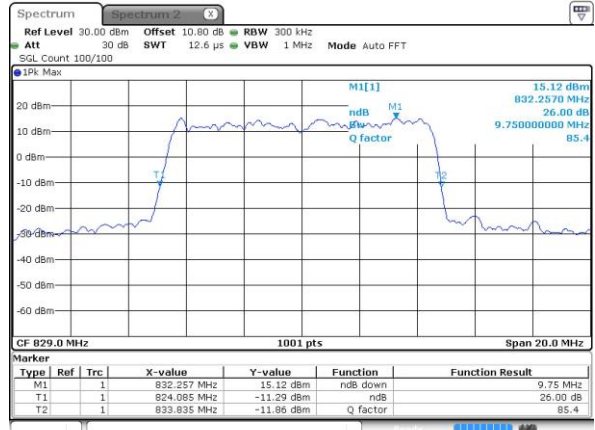
LTE Band 5

Lowest Channel / 10MHz / QPSK



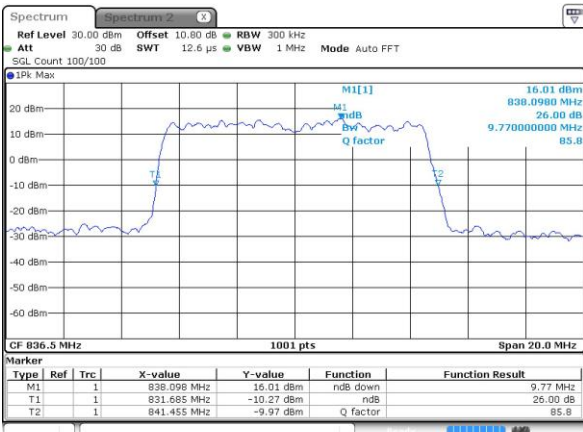
Date: 25 APR 2018 16:38:01

Lowest Channel / 10MHz / 16QAM



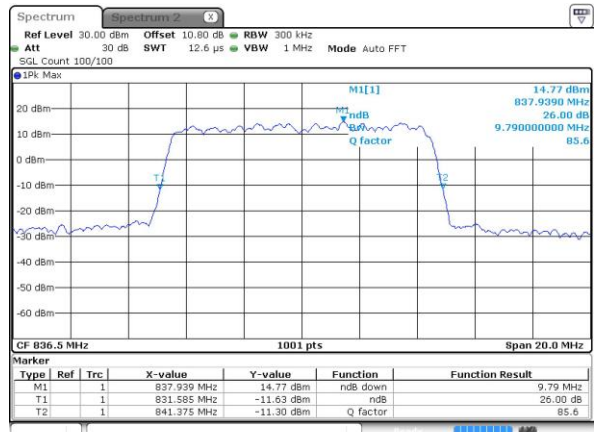
Date: 25 APR 2018 16:38:11

Middle Channel / 10MHz / QPSK



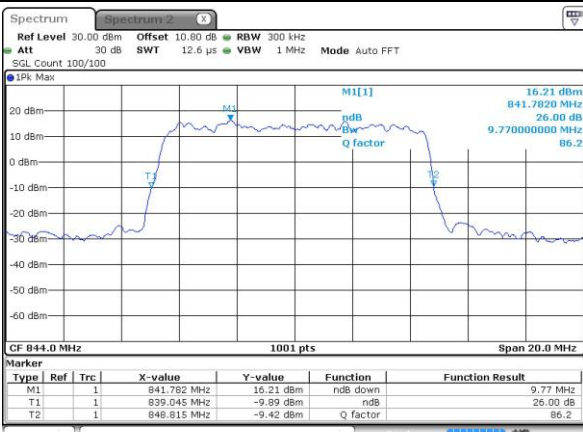
Date: 25 APR 2018 16:47:07

Middle Channel / 10MHz / 16QAM



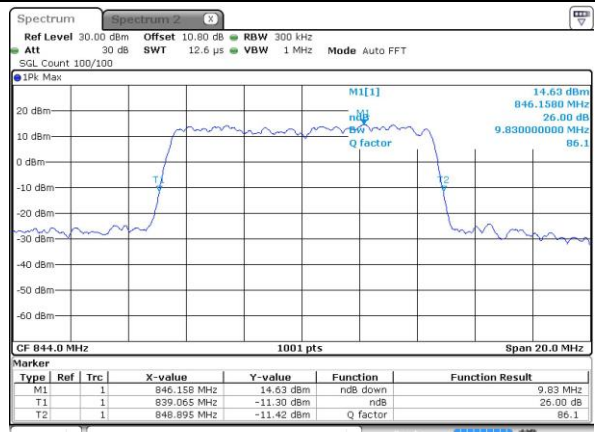
Date: 25 APR 2018 16:47:17

Highest Channel / 10MHz / QPSK



Date: 25 APR 2018 16:49:37

Highest Channel / 10MHz / 16QAM



Date: 25 APR 2018 16:49:47



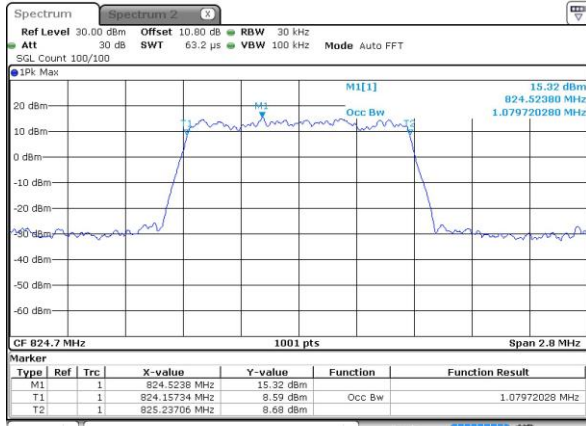
### Occupied Bandwidth

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	1.08	1.09	2.71	2.72	4.51	4.48	8.97	9.01	-	-	-	-
Middle CH	1.09	1.09	2.73	2.7	4.51	4.49	9.09	8.99	-	-	-	-
Highest CH	1.09	1.09	2.71	2.72	4.49	4.5	9.03	9.01	-	-	-	-



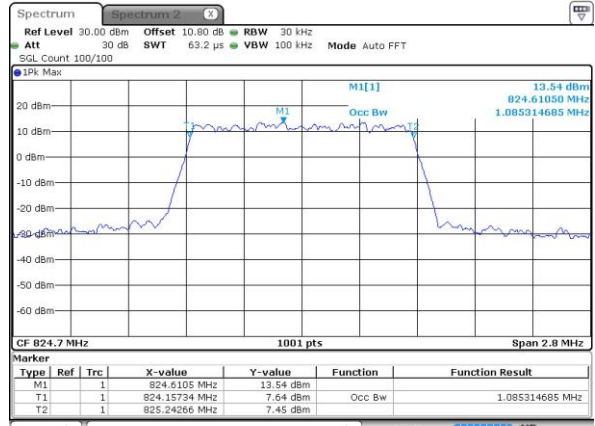
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



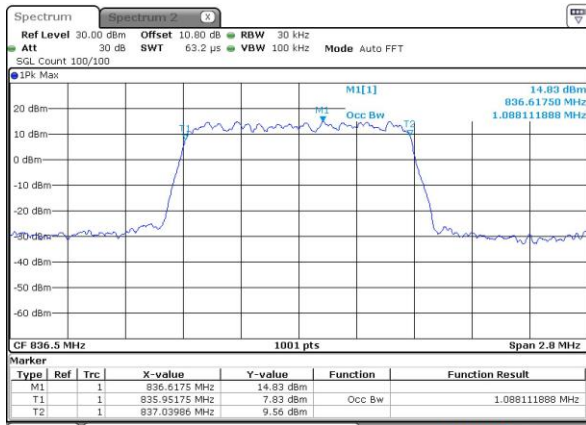
Date: 25 APR 2018 17:01:17

Lowest Channel / 1.4MHz / 16QAM



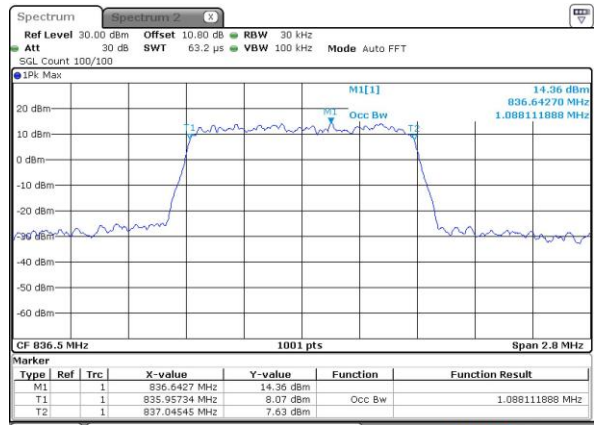
Date: 25 APR 2018 15:35:46

Middle Channel / 1.4MHz / QPSK



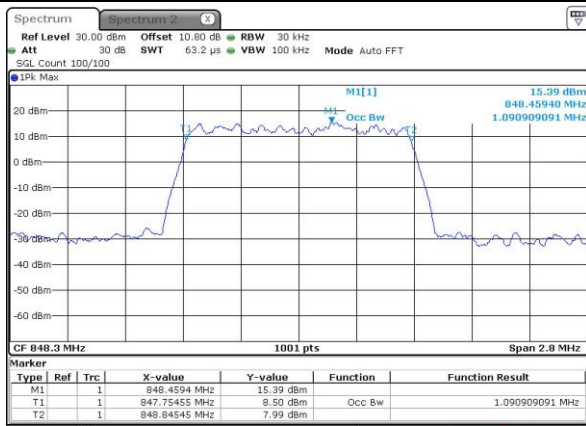
Date: 25 APR 2018 15:44:42

Middle Channel / 1.4MHz / 16QAM



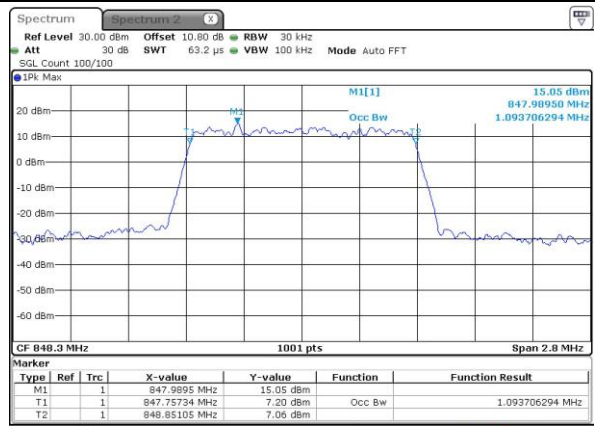
Date: 25 APR 2018 15:44:52

Highest Channel / 1.4MHz / QPSK



Date: 25 APR 2018 15:47:11

Highest Channel / 1.4MHz / 16QAM



Date: 25 APR 2018 15:47:22