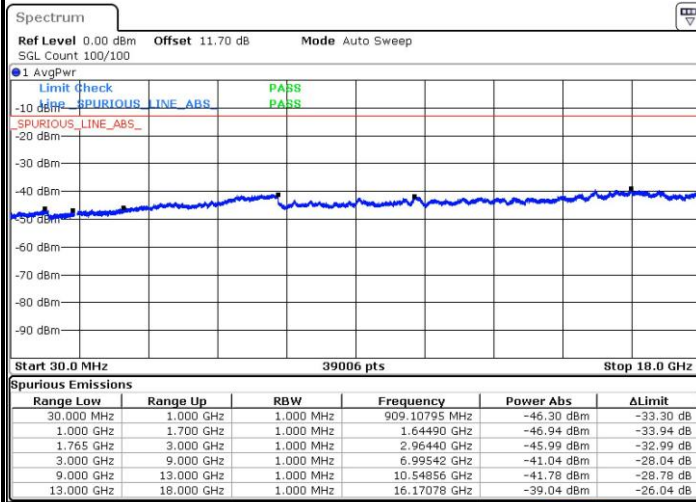




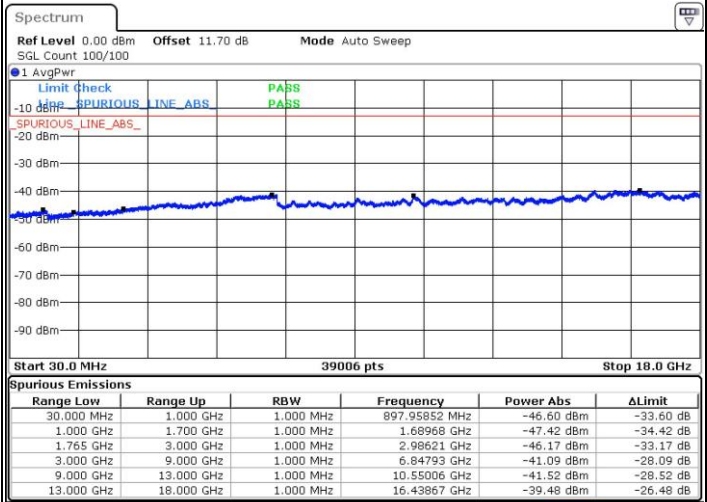
LTE Band 4 / 5MHz

Lowest Channel / 64QAM



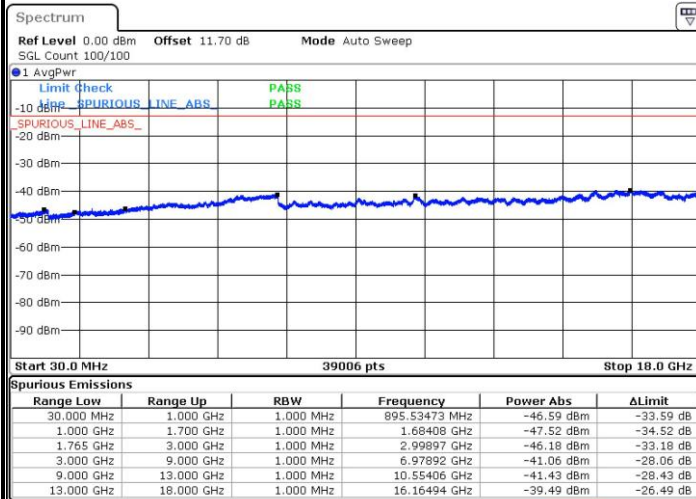
Date: 2 APR 2018 20:58:24

Middle Channel / 64QAM



Date: 2 APR 2018 20:59:39

Highest Channel / 64QAM

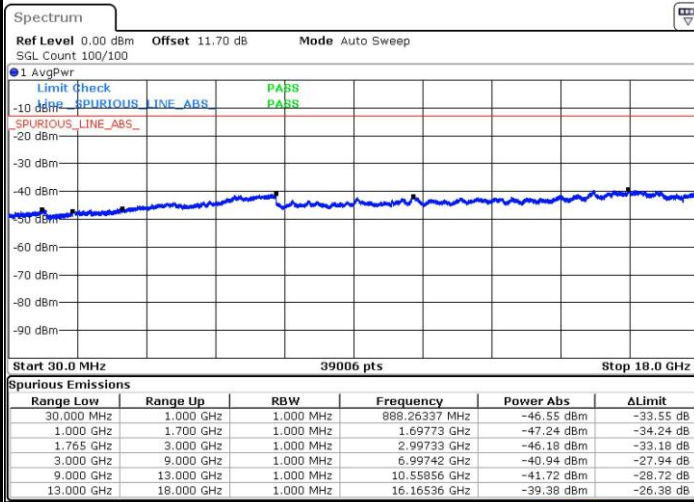


Date: 2 APR 2018 21:03:09



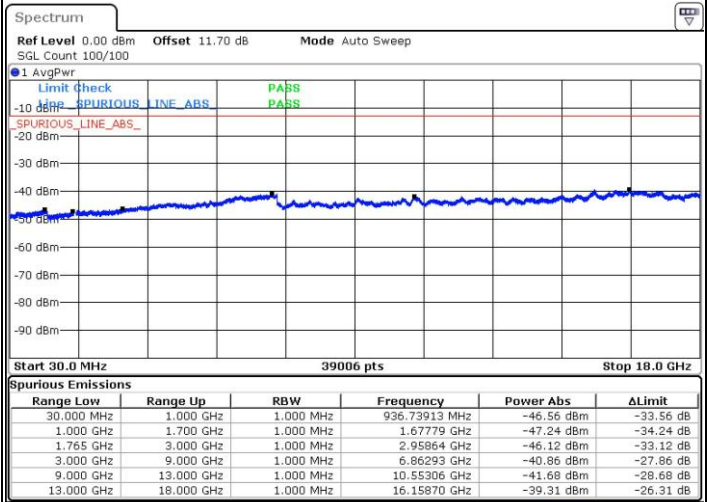
LTE Band 4 / 10MHz

Lowest Channel / 64QAM



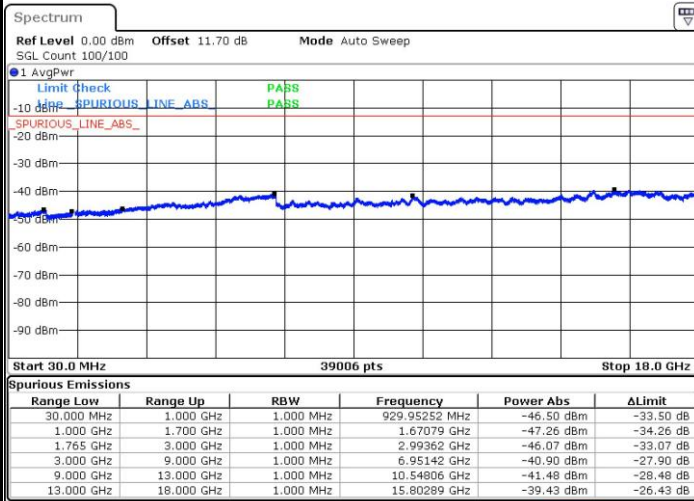
Date: 2 APR 2018 21:06:40

Middle Channel / 64QAM



Date: 2 APR 2018 21:07:55

Highest Channel / 64QAM

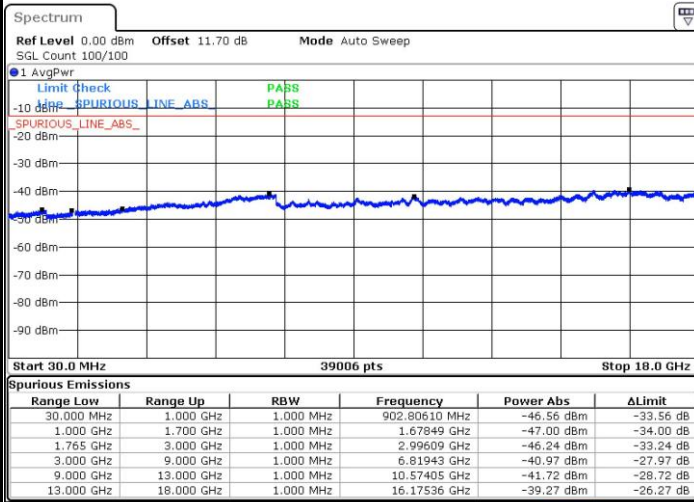


Date: 2 APR 2018 21:11:25



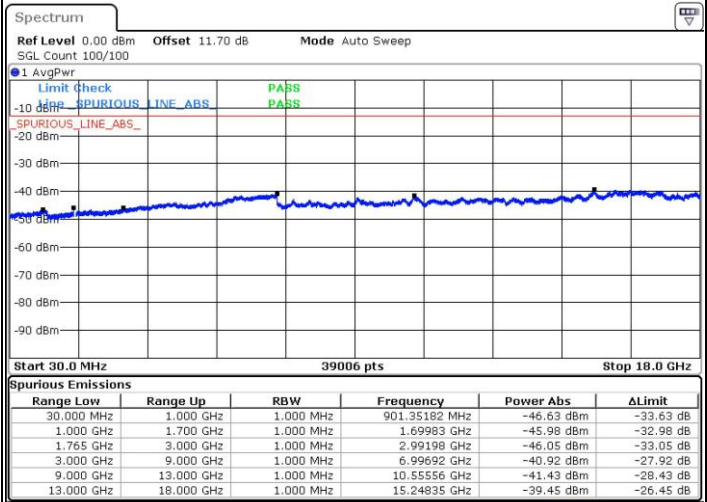
LTE Band 4 / 15MHz

Lowest Channel / 64QAM



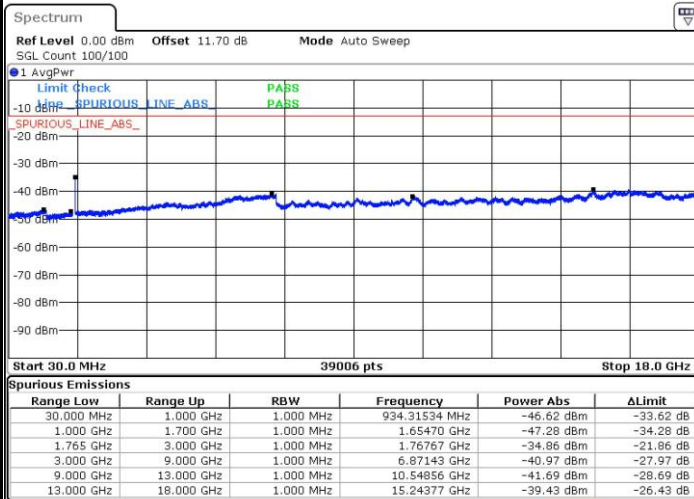
Date: 2 APR 2018 21:14:56

Middle Channel / 64QAM



Date: 2 APR 2018 21:16:11

Highest Channel / 64QAM

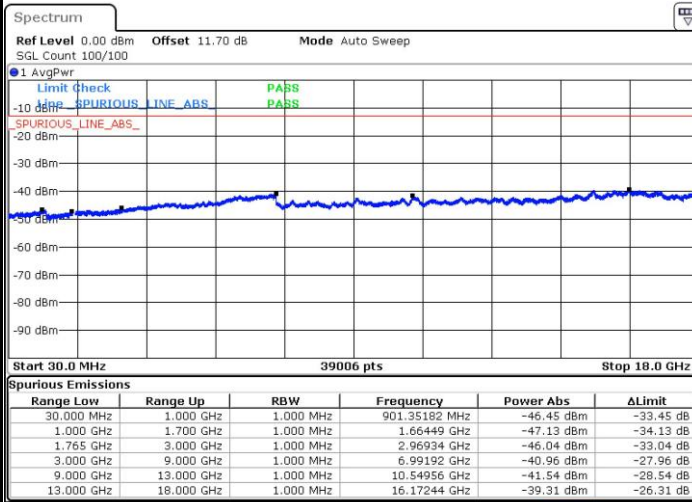


Date: 2 APR 2018 21:19:41



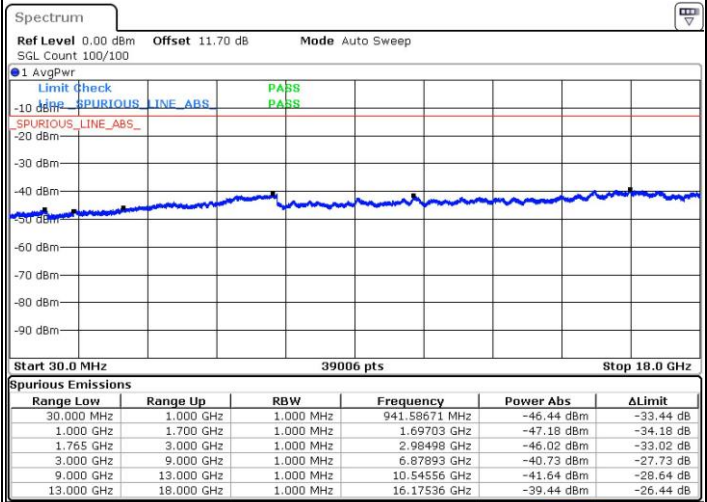
LTE Band 4 / 20MHz

Lowest Channel / 64QAM



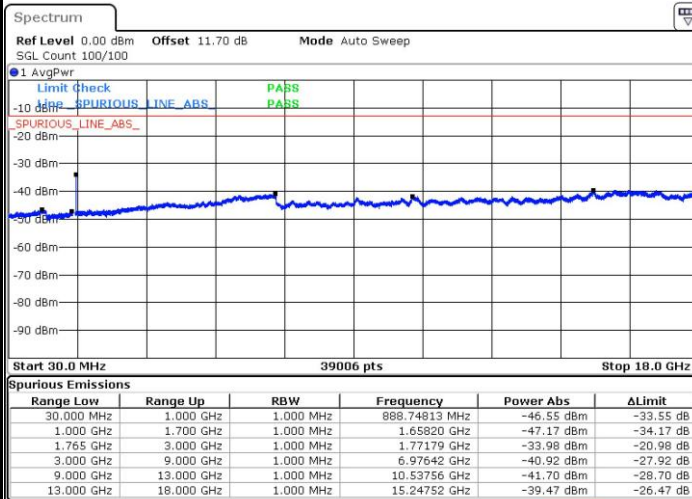
Date: 2 APR 2018 21:23:11

Middle Channel / 64QAM



Date: 2 APR 2018 21:24:26

Highest Channel / 64QAM



Date: 2 APR 2018 21:27:56

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	0.0006	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0080	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0038	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0032	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.40 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 5

Peak-to-Average Ratio

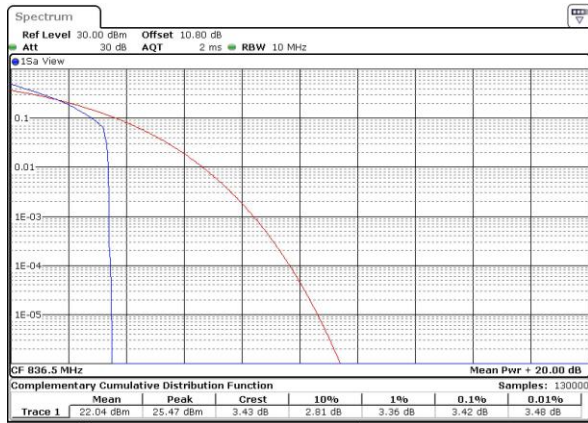
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.25	4.55	4.43	5.71	PASS
Middle CH	3.42	4.35	4.81	5.51	
Highest CH	3.25	4.09	4.64	5.36	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.48	6.46	-	-	PASS
Middle CH	5.86	6.29	-	-	
Highest CH	5.19	6.03	-	-	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


Date: 3 APR 2018 00:38:35

Lowest Channel / Full RB

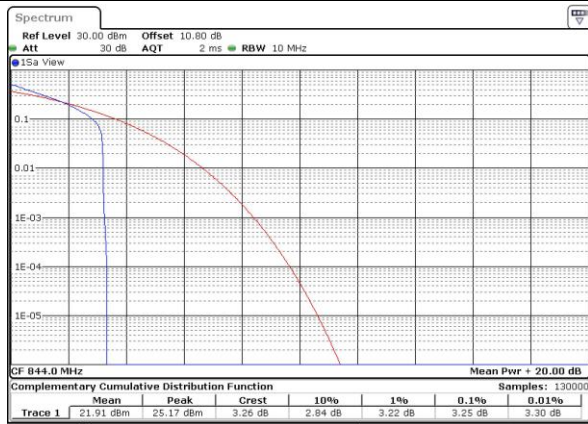

Date: 3 APR 2018 00:38:45

Middle Channel / 1RB


Date: 3 APR 2018 00:38:56

Middle Channel / Full RB

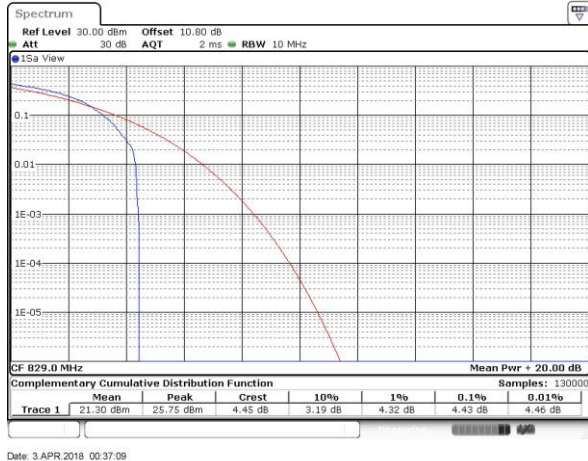
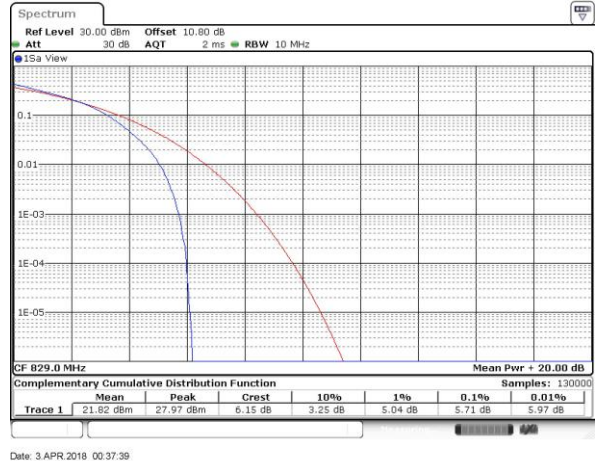
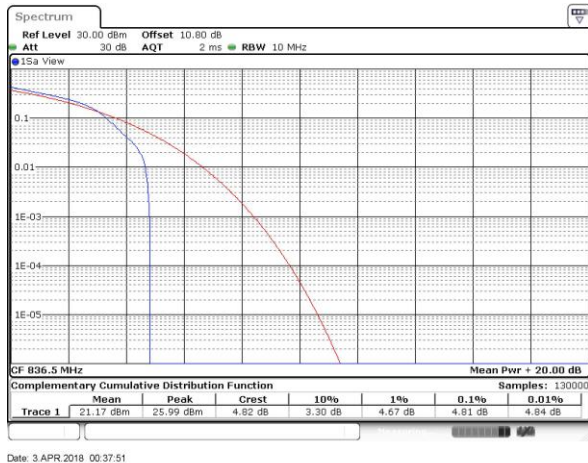
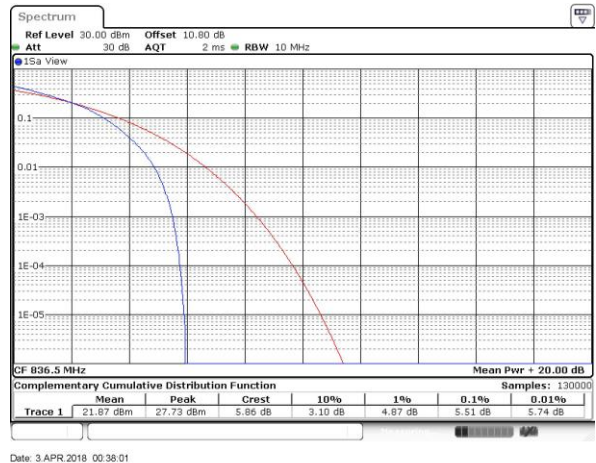
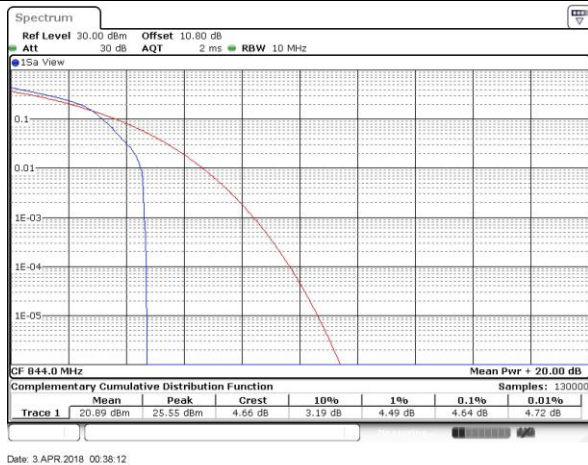
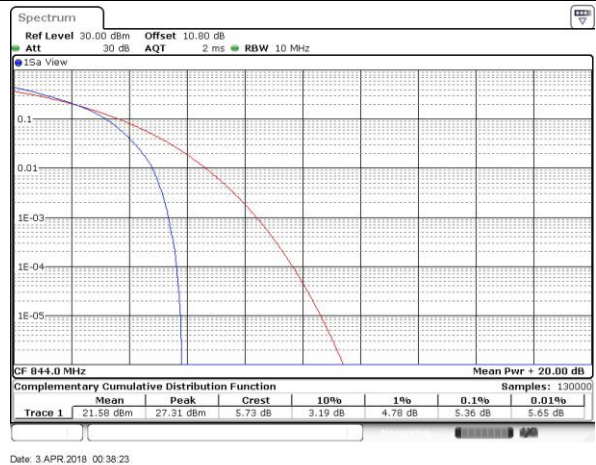

Date: 3 APR 2018 00:39:06

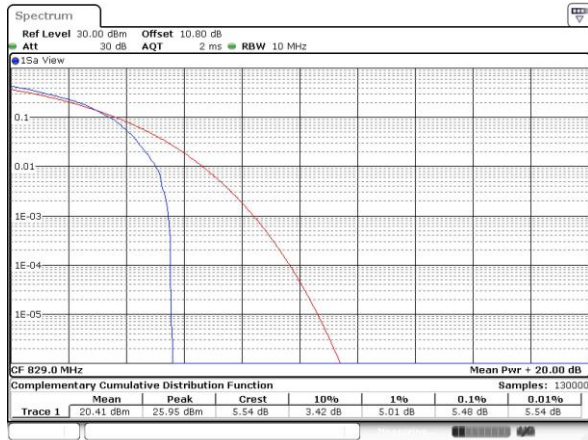
Highest Channel / 1RB


Date: 3 APR 2018 00:39:16

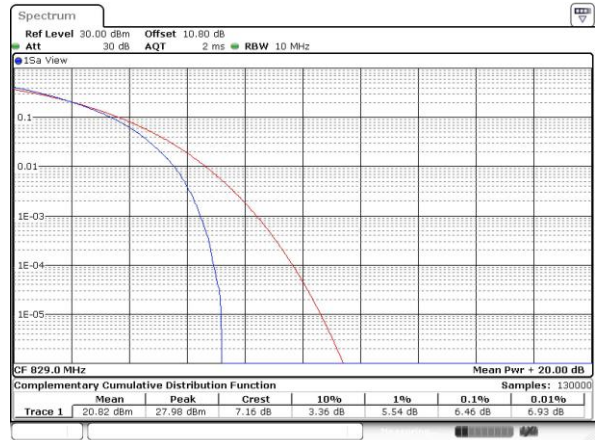
Highest Channel / Full RB


Date: 3 APR 2018 00:39:26

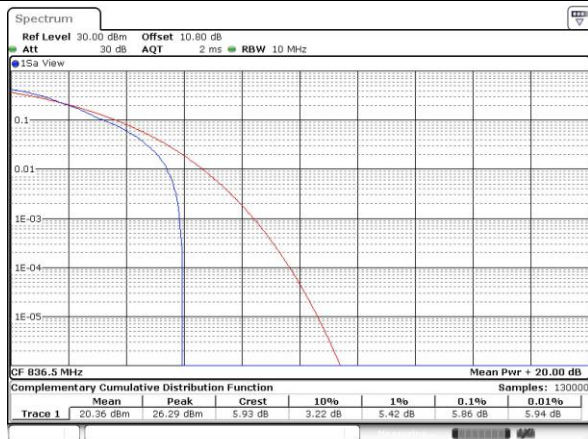
LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 5 / 10MHz / 64QAM
Lowest Channel / 1RB


Date: 3 APR 2018 00:39:36

Lowest Channel / Full RB


Date: 3 APR 2018 00:39:48

Middle Channel / 1RB


Date: 3 APR 2018 00:39:58

Middle Channel / Full RB


Date: 3 APR 2018 00:40:09

Highest Channel / 1RB


Date: 3 APR 2018 00:40:19

Highest Channel / Full RB


Date: 3 APR 2018 00:40:28

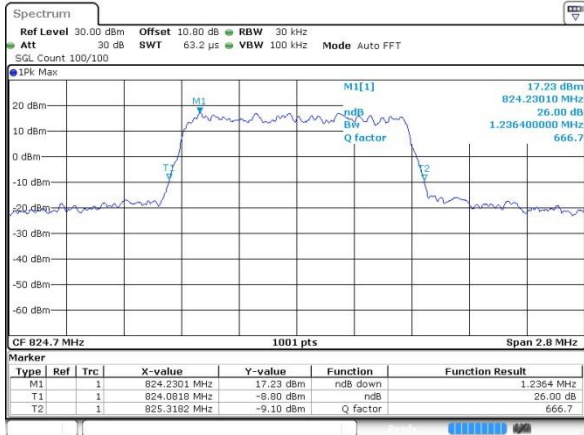
**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.23	3.03	2.98	4.97	4.94	9.73	9.93	-	-	-	-
Middle CH	1.23	1.23	3.02	3.02	5.01	4.90	9.75	9.71	-	-	-	-
Highest CH	1.23	1.23	2.98	2.98	4.93	4.92	9.73	9.79	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.25	-	3.04	-	4.89	-	9.85	-	-	-	-	-
Middle CH	1.23	-	3.00	-	4.90	-	9.77	-	-	-	-	-
Highest CH	1.22	-	2.97	-	4.86	-	9.79	-	-	-	-	-



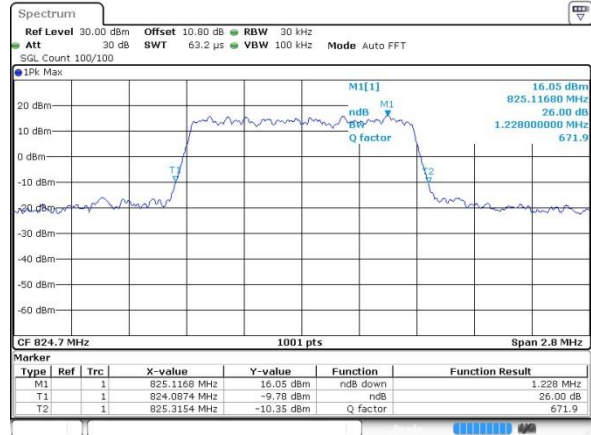
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



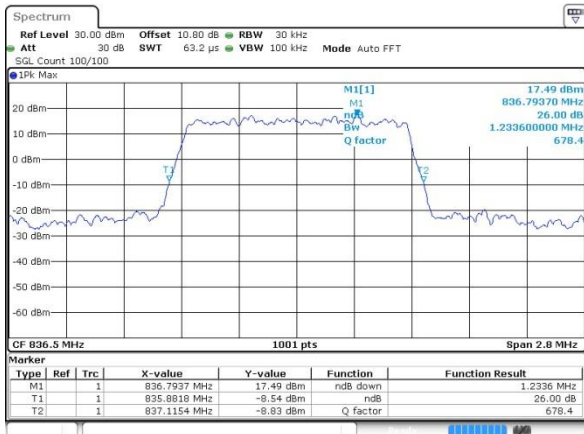
Date: 3 APR 2018 00:14:17

Lowest Channel / 1.4MHz / 16QAM



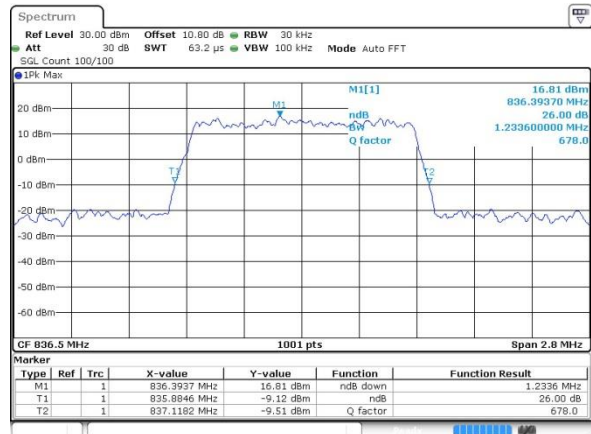
Date: 3 APR 2018 00:14:07

Middle Channel / 1.4MHz / QPSK



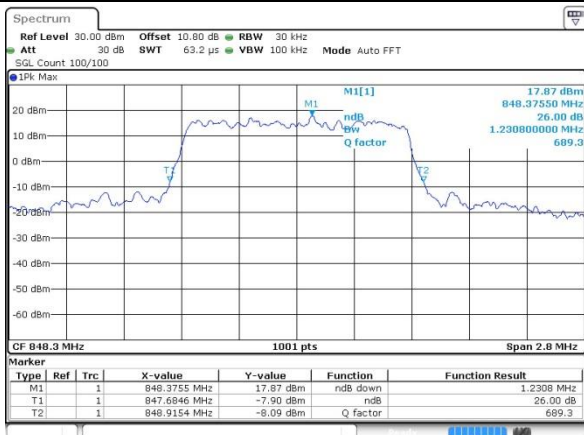
Date: 3 APR 2018 00:23:07

Middle Channel / 1.4MHz / 16QAM



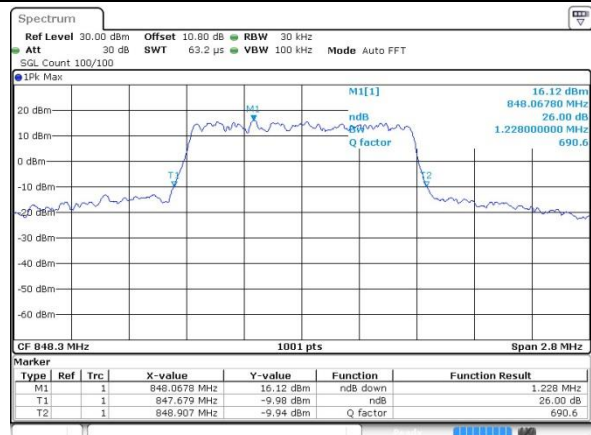
Date: 3 APR 2018 00:23:18

Highest Channel / 1.4MHz / QPSK



Date: 3 APR 2018 00:25:37

Highest Channel / 1.4MHz / 16QAM

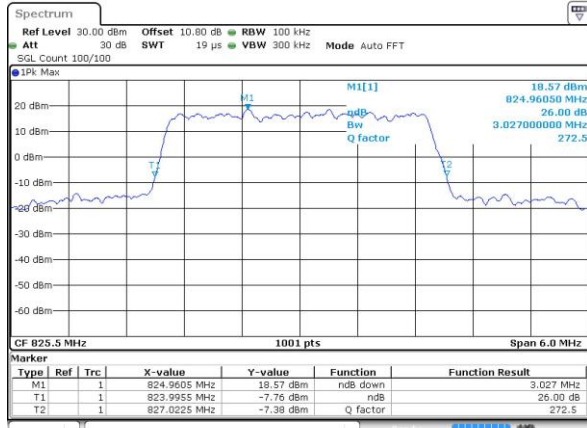


Date: 3 APR 2018 00:25:47

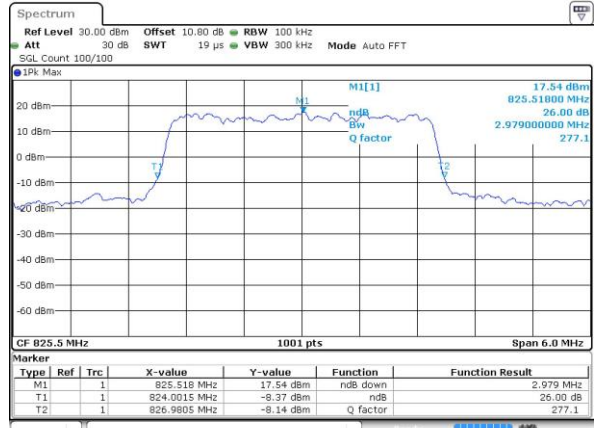


LTE Band 5

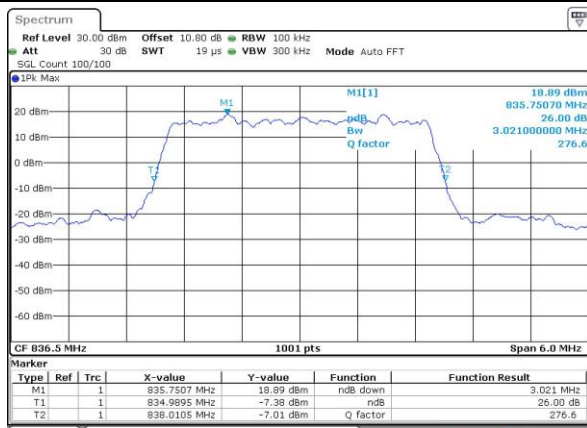
Lowest Channel / 3MHz / QPSK



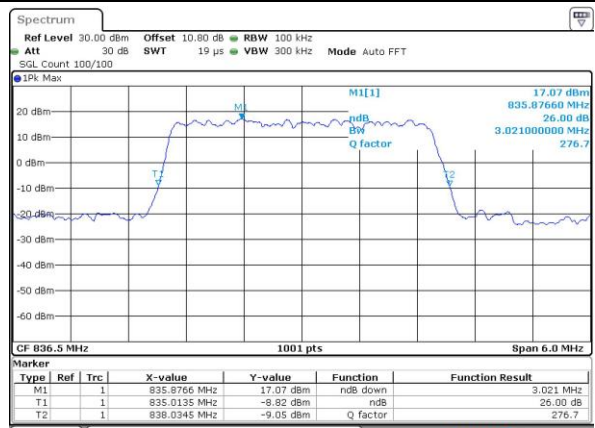
Lowest Channel / 3MHz / 16QAM



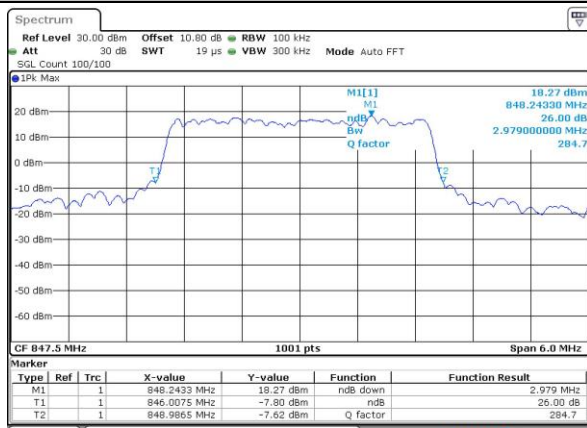
Middle Channel / 3MHz / QPSK



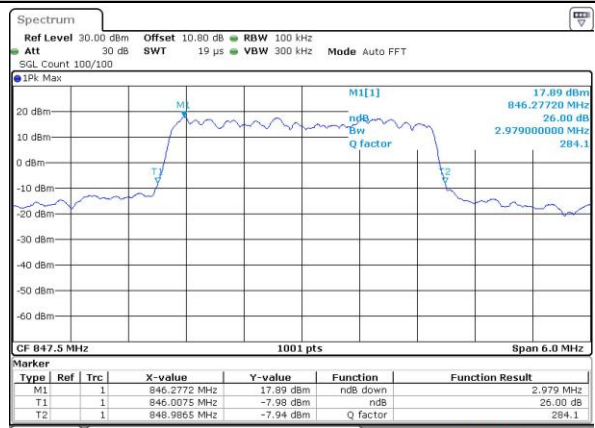
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



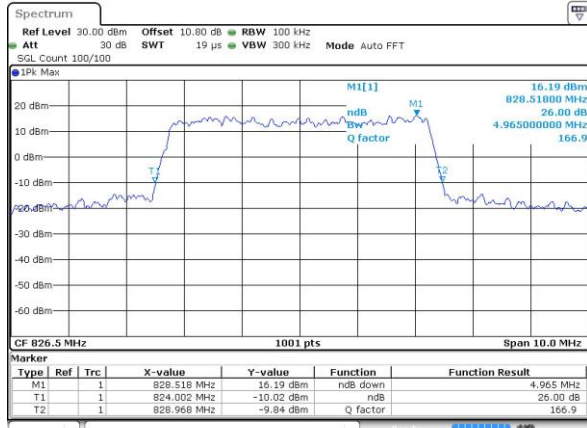
Highest Channel / 3MHz / 16QAM





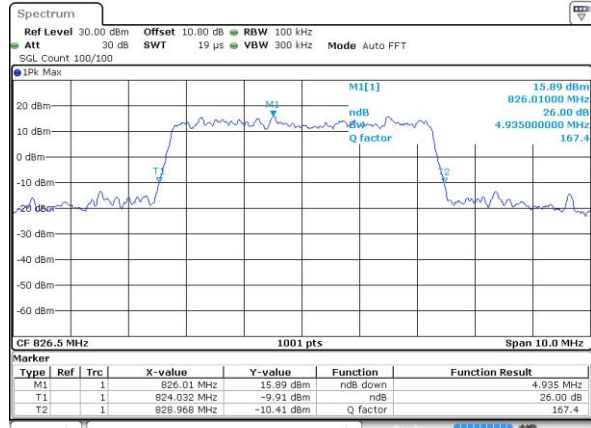
LTE Band 5

Lowest Channel / 5MHz / QPSK



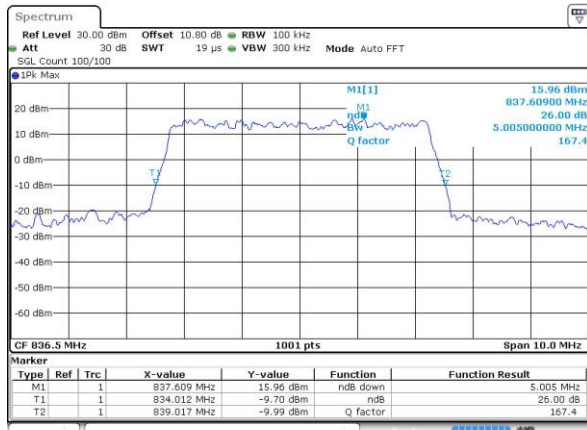
Date: 2 APR 2018 22:52:04

Lowest Channel / 5MHz / 16QAM



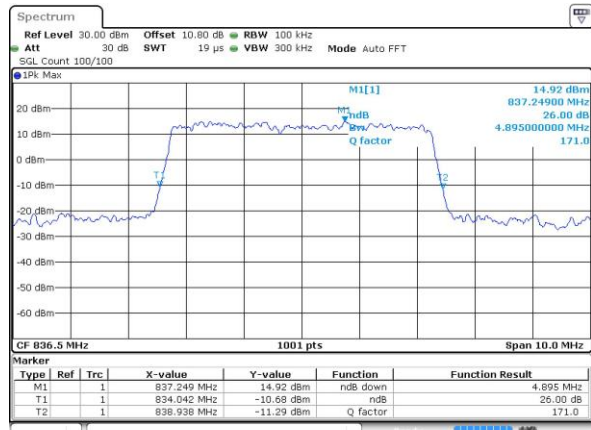
Date: 2 APR 2018 22:52:15

Middle Channel / 5MHz / QPSK



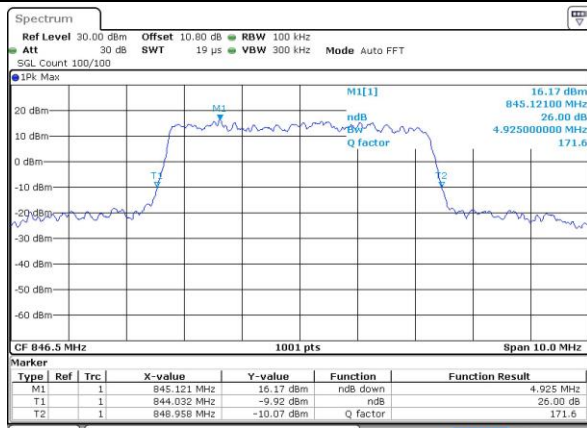
Date: 2 APR 2018 23:01:05

Middle Channel / 5MHz / 16QAM



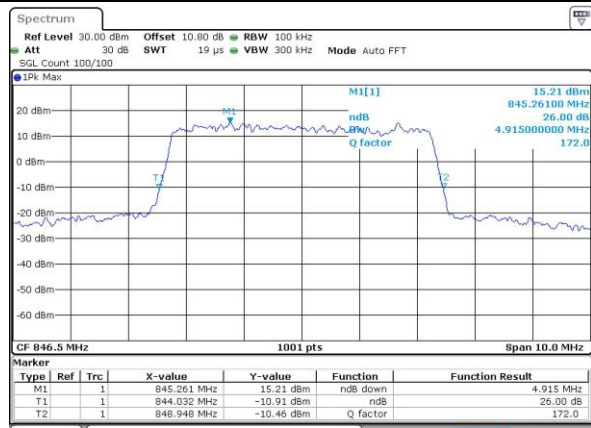
Date: 2 APR 2018 23:01:15

Highest Channel / 5MHz / QPSK



Date: 2 APR 2018 23:03:35

Highest Channel / 5MHz / 16QAM

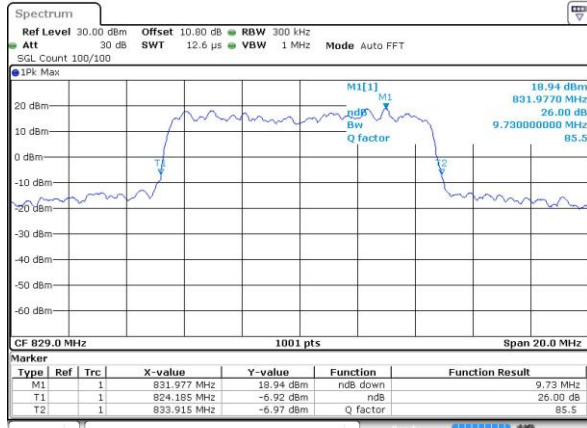


Date: 2 APR 2018 23:03:45



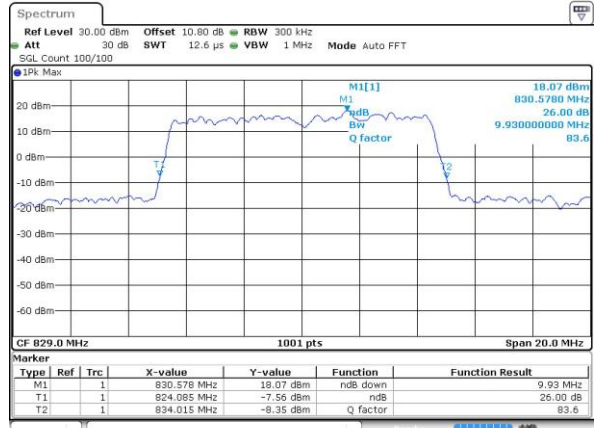
LTE Band 5

Lowest Channel / 10MHz / QPSK



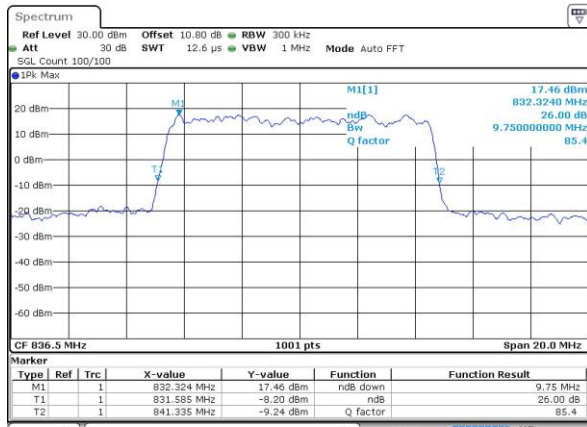
Date: 2 APR 2018 23:12:35

Lowest Channel / 10MHz / 16QAM



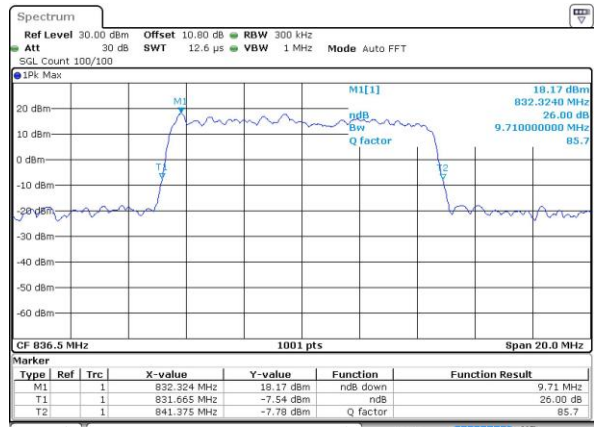
Date: 2 APR 2018 23:12:45

Middle Channel / 10MHz / QPSK



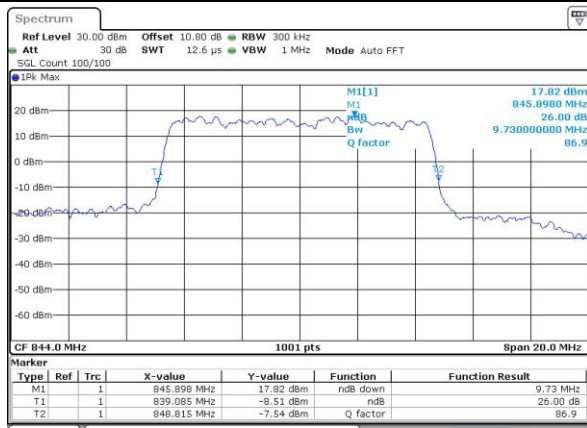
Date: 2 APR 2018 23:21:36

Middle Channel / 10MHz / 16QAM



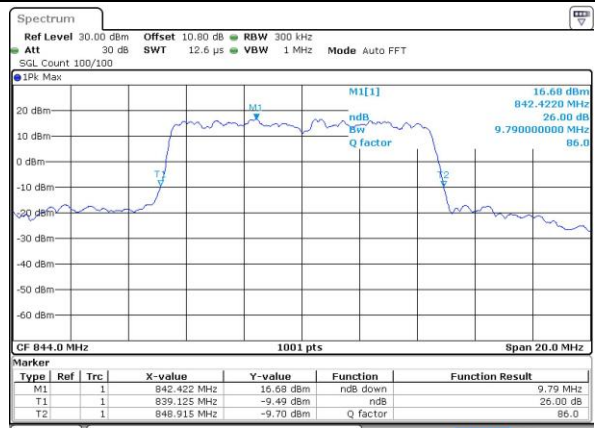
Date: 2 APR 2018 23:21:46

Highest Channel / 10MHz / QPSK



Date: 2 APR 2018 23:24:06

Highest Channel / 10MHz / 16QAM

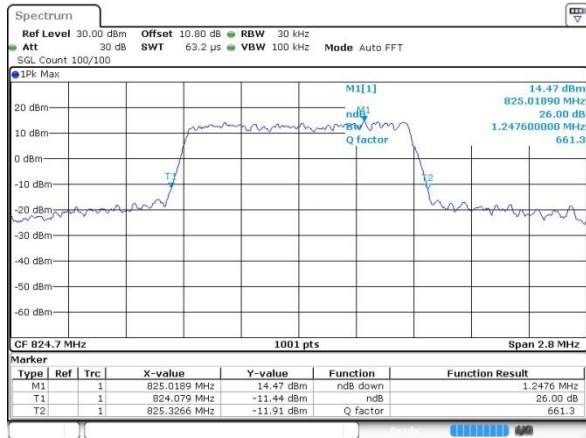


Date: 2 APR 2018 23:24:16



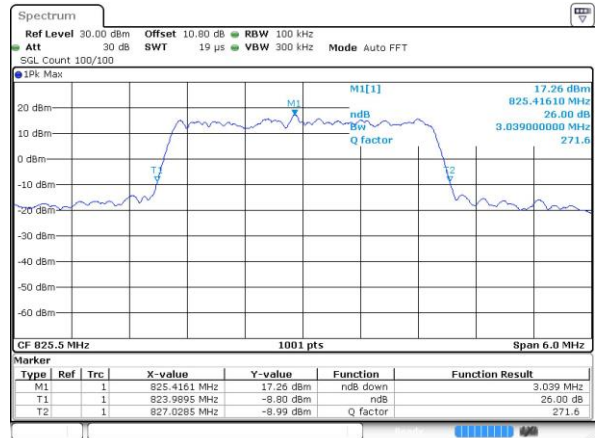
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



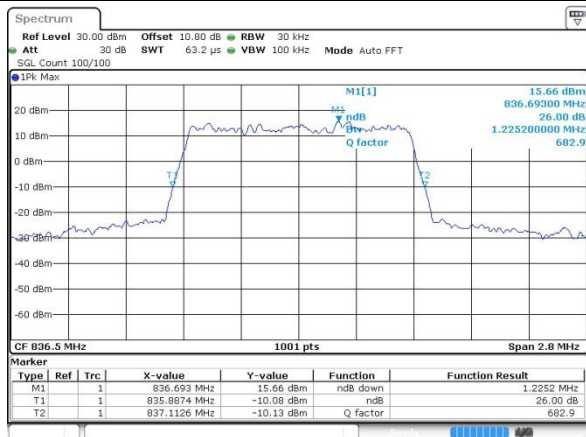
Date: 3 APR 2018 00:03:42

Lowest Channel / 3MHz / 64QAM



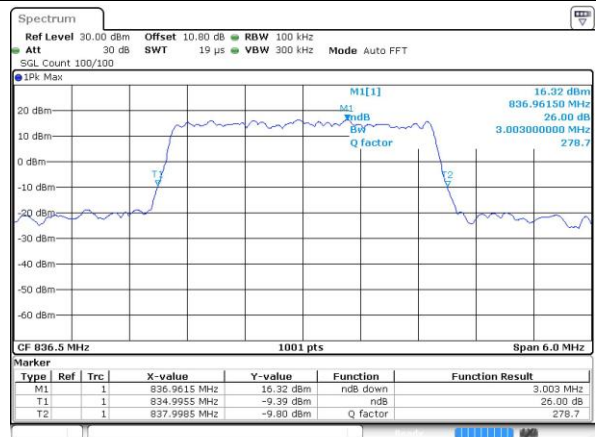
Date: 2 APR 2018 23:32:56

Middle Channel / 1.4MHz / 64QAM



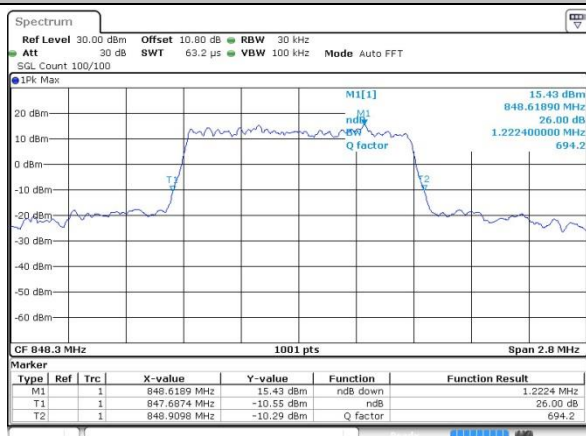
Date: 3 APR 2018 00:08:12

Middle Channel / 3MHz / 64QAM



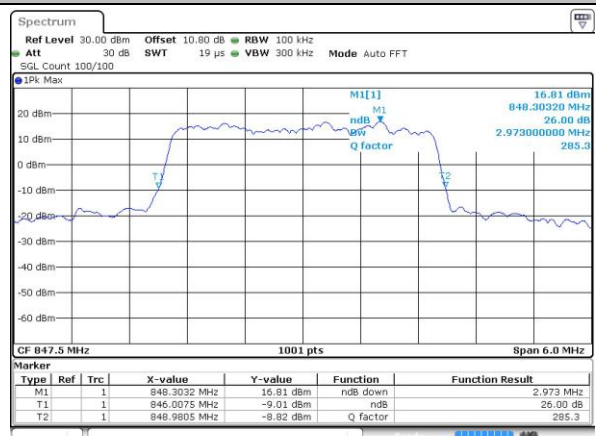
Date: 2 APR 2018 23:37:26

Highest Channel / 1.4MHz / 64QAM



Date: 3 APR 2018 00:09:26

Highest Channel / 3MHz / 64QAM

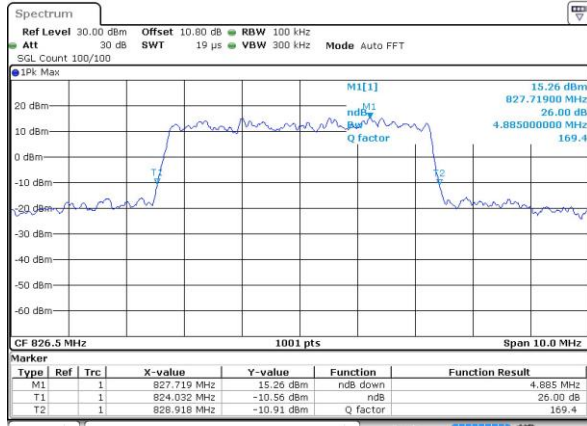


Date: 2 APR 2018 23:38:41



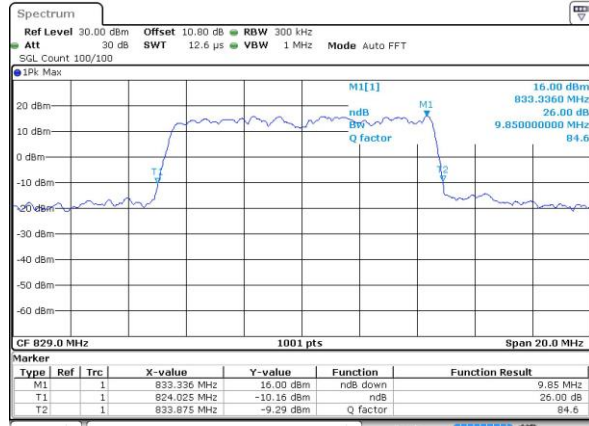
LTE Band 5

Lowest Channel / 5MHz / 64QAM



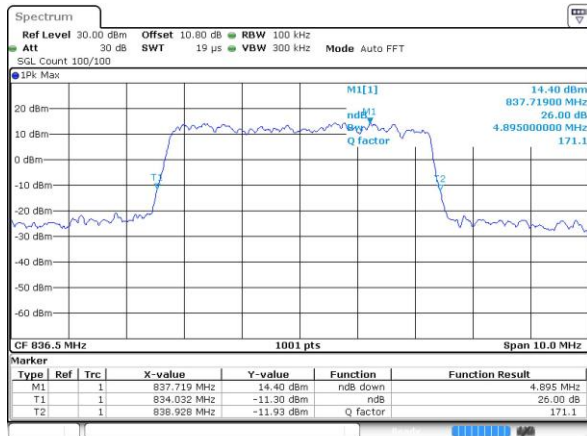
Date: 2 APR 2018 23:43:11

Lowest Channel / 10MHz / 64QAM



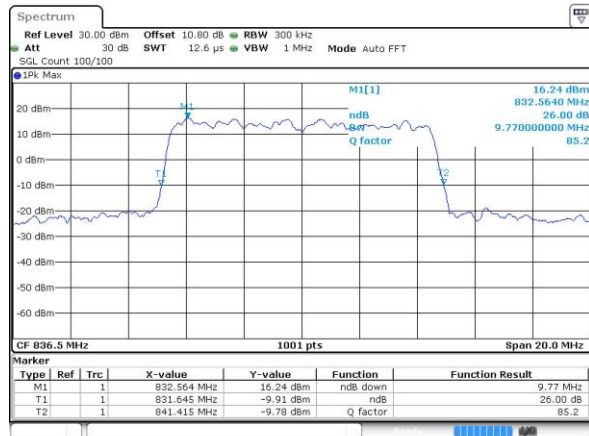
Date: 2 APR 2018 23:53:26

Middle Channel / 5MHz / 64QAM



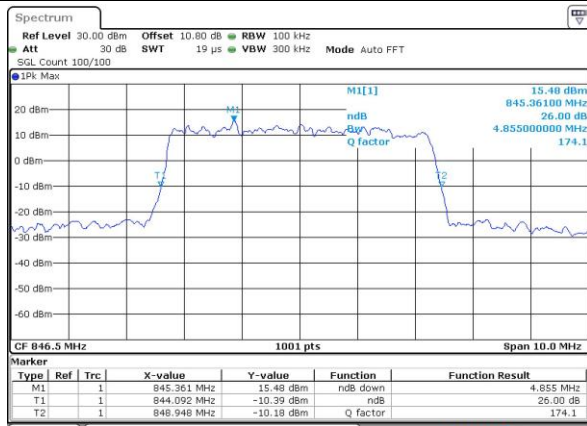
Date: 2 APR 2018 23:47:41

Middle Channel / 10MHz / 64QAM



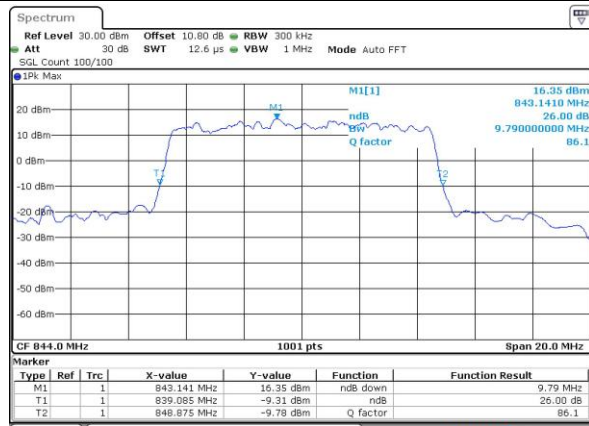
Date: 2 APR 2018 23:57:57

Highest Channel / 5MHz / 64QAM



Date: 2 APR 2018 23:48:56

Highest Channel / 10MHz / 64QAM



Date: 2 APR 2018 23:59:11

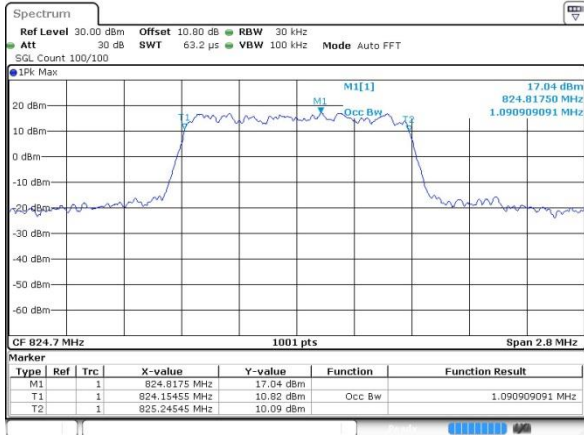
**Occupied Bandwidth**

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.73	2.75	4.5	4.5	9.03	9.03	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.5	4.49	8.97	9.01	-	-	-	-
Highest CH	1.1	1.09	2.73	2.73	4.51	4.5	8.95	9.01	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10	-	2.72	-	4.50	-	9.05	-	-	-	-	-
Middle CH	1.09	-	2.73	-	4.50	-	9.03	-	-	-	-	-
Highest CH	1.09	-	2.70	-	4.50	-	8.97	-	-	-	-	-

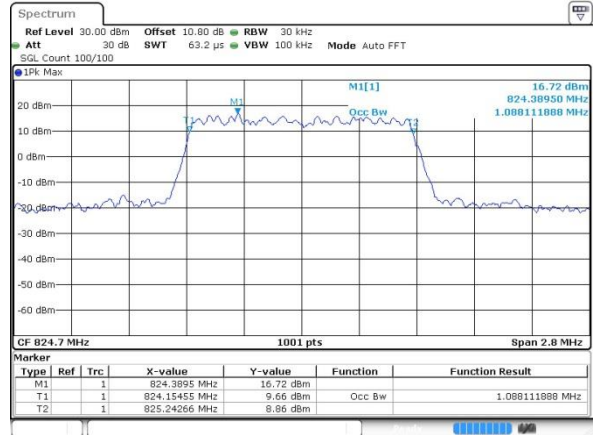


LTE Band 5

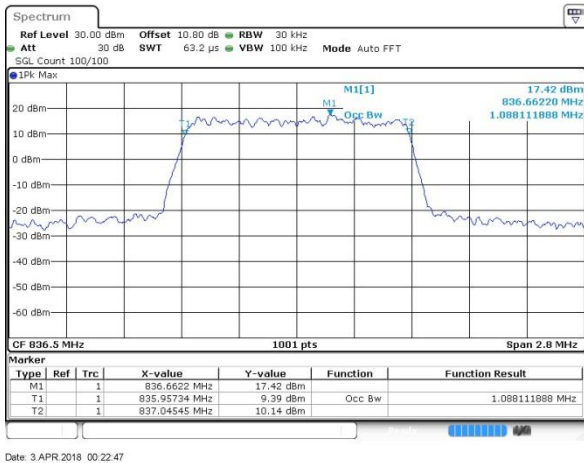
Lowest Channel / 1.4MHz / QPSK



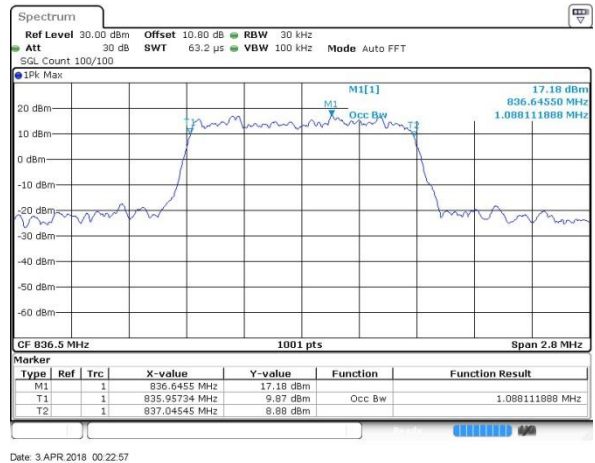
Lowest Channel / 1.4MHz / 16QAM



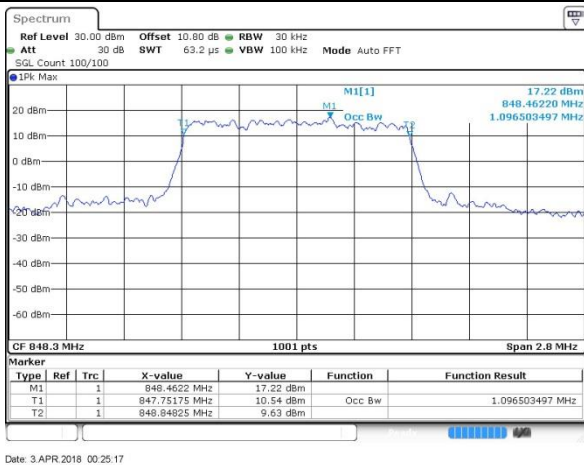
Middle Channel / 1.4MHz / QPSK



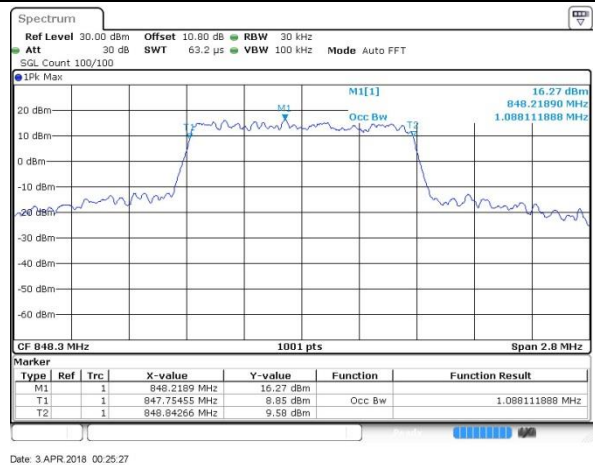
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



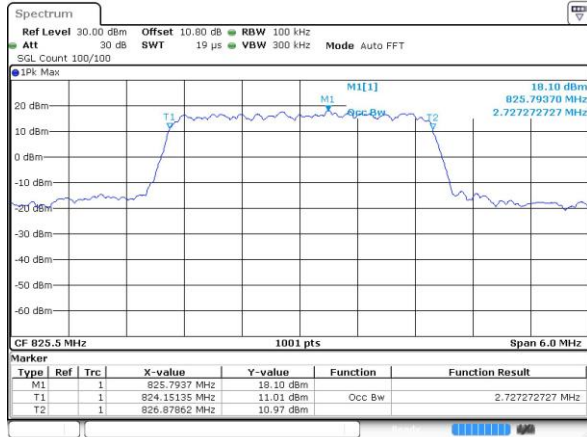
Highest Channel / 1.4MHz / 16QAM





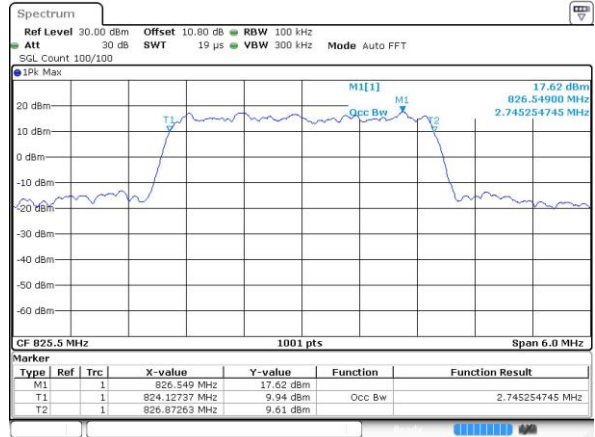
LTE Band 5

Lowest Channel / 3MHz / QPSK



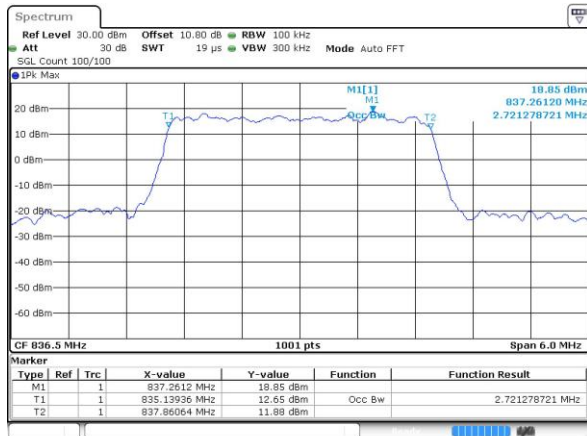
Date: 2 APR 2018 22:31:13

Lowest Channel / 3MHz / 16QAM



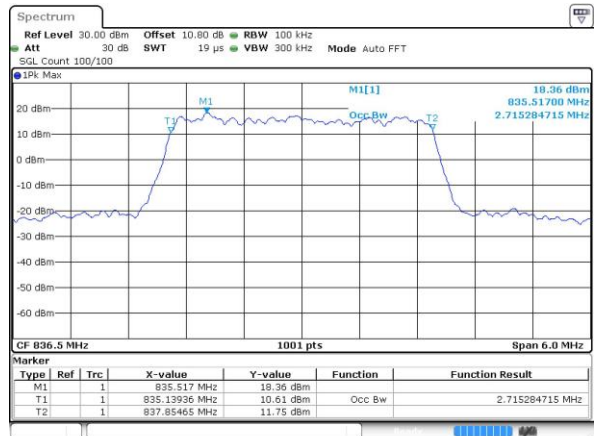
Date: 2 APR 2018 22:31:23

Middle Channel / 3MHz / QPSK



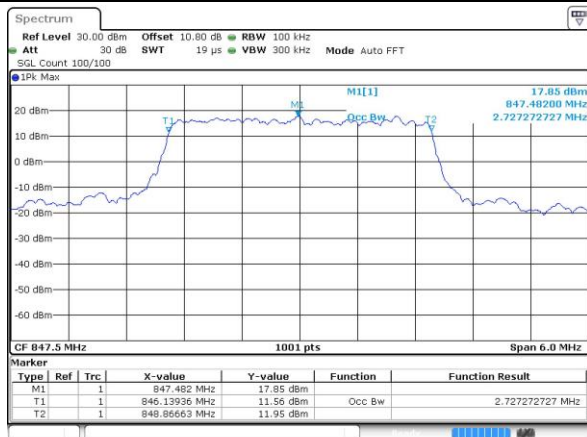
Date: 2 APR 2018 22:40:13

Middle Channel / 3MHz / 16QAM



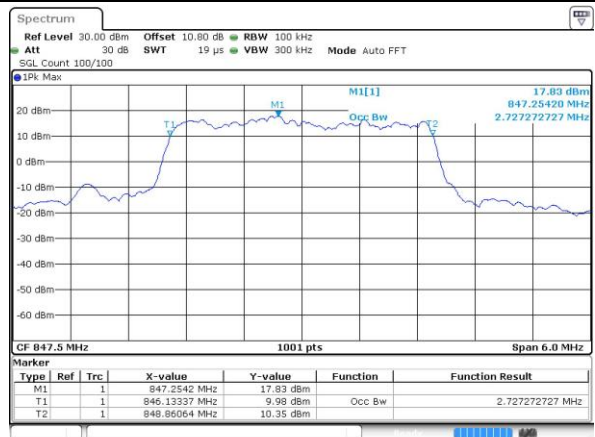
Date: 2 APR 2018 22:40:24

Highest Channel / 3MHz / QPSK



Date: 2 APR 2018 22:42:43

Highest Channel / 3MHz / 16QAM

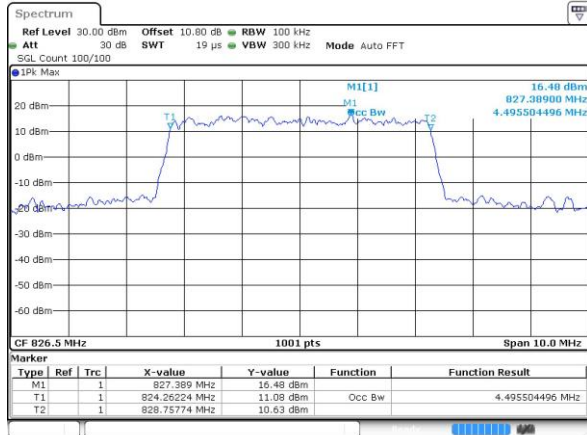


Date: 2 APR 2018 22:42:53



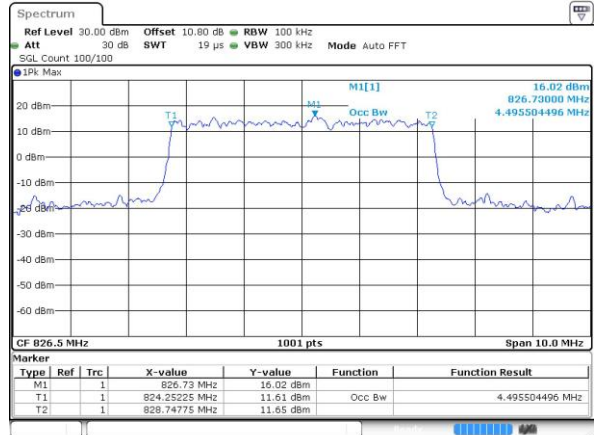
LTE Band 5

Lowest Channel / 5MHz / QPSK



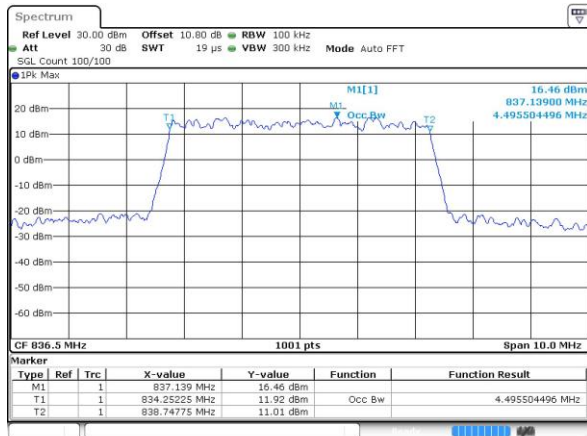
Date: 2 APR 2018 22:51:44

Lowest Channel / 5MHz / 16QAM



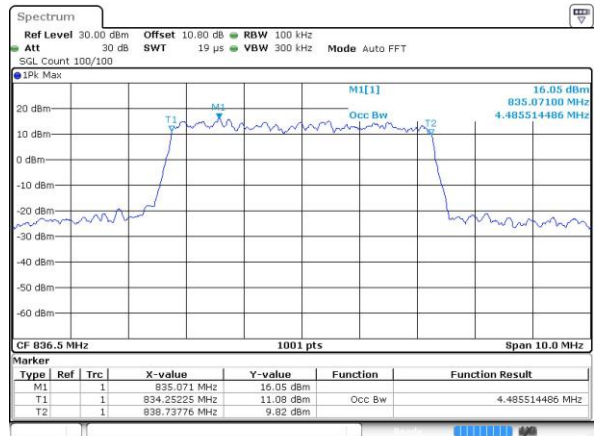
Date: 2 APR 2018 22:51:54

Middle Channel / 5MHz / QPSK



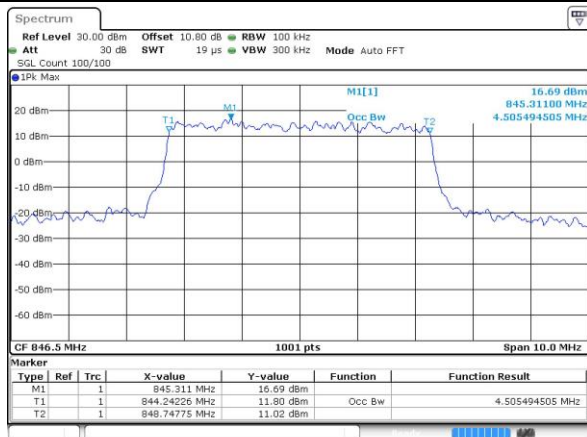
Date: 2 APR 2018 23:00:44

Middle Channel / 5MHz / 16QAM



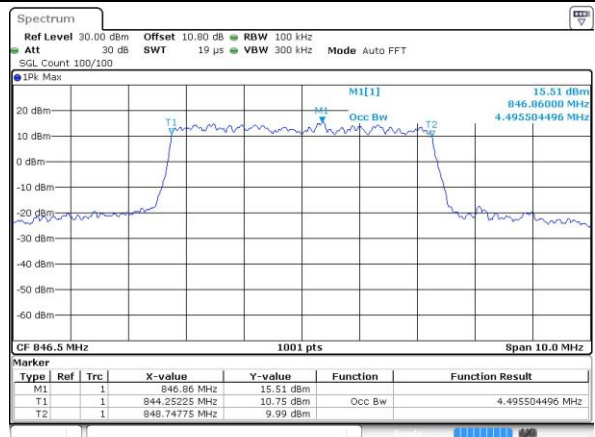
Date: 2 APR 2018 23:00:55

Highest Channel / 5MHz / QPSK



Date: 2 APR 2018 23:03:14

Highest Channel / 5MHz / 16QAM

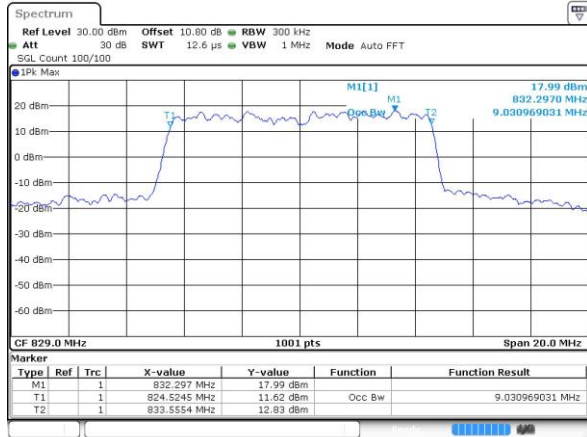


Date: 2 APR 2018 23:03:24

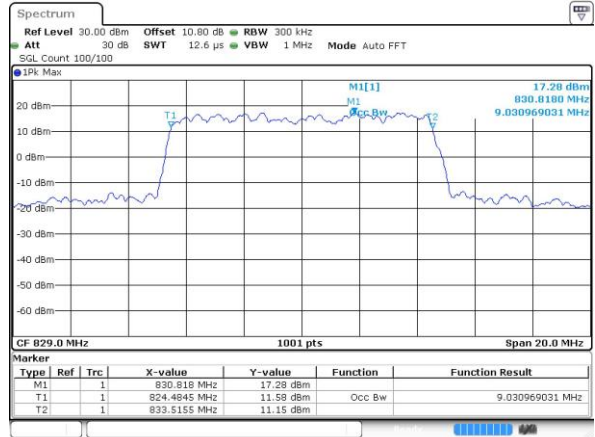


LTE Band 5

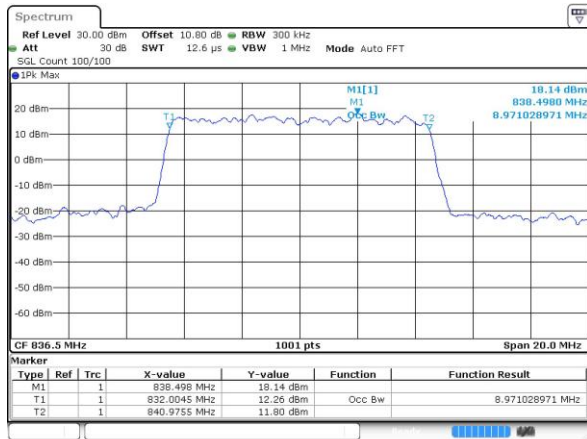
Lowest Channel / 10MHz / QPSK



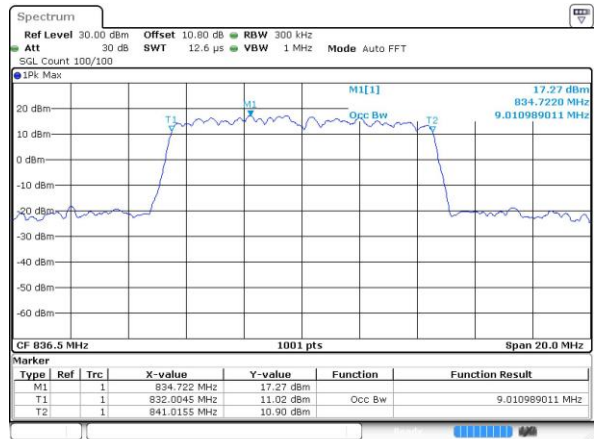
Lowest Channel / 10MHz / 16QAM



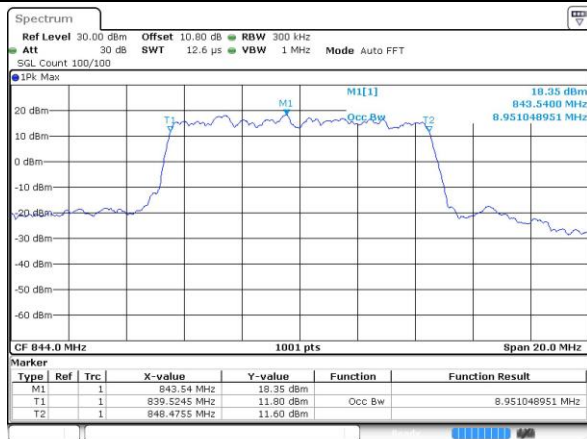
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

