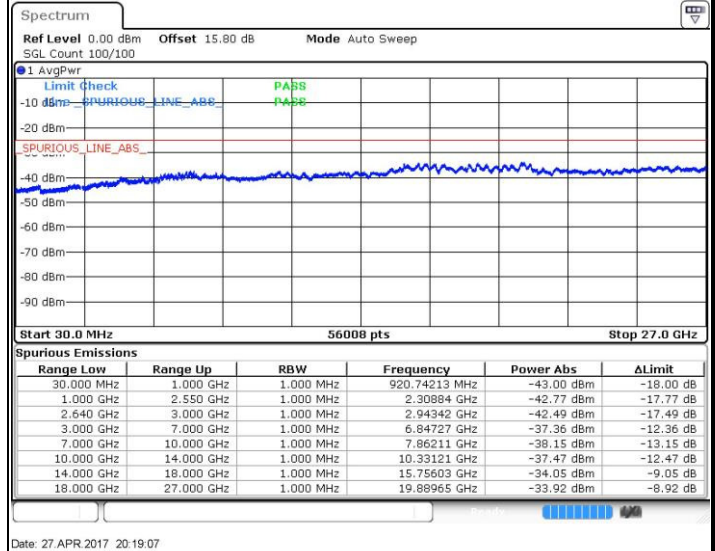


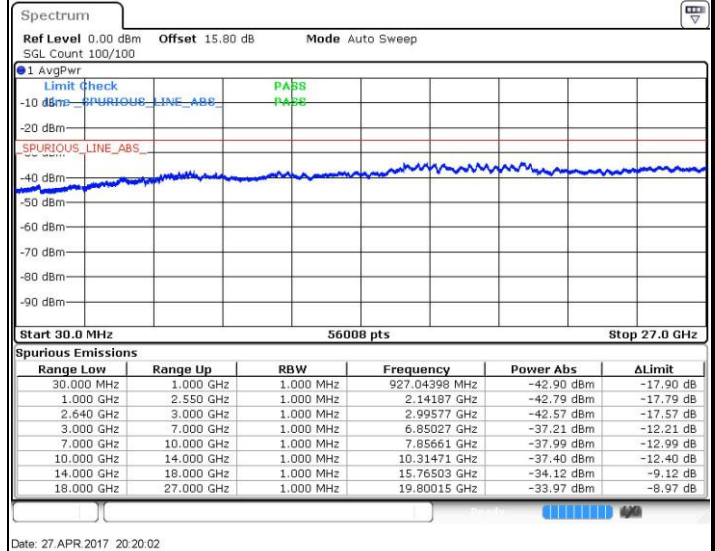


LTE Band 38 / 10MHz

Middle Channel / 64QAM



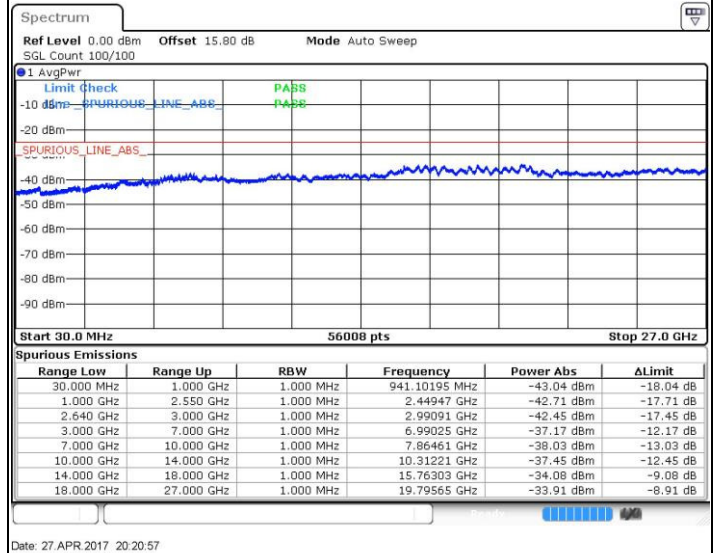
Highest Channel / 64QAM



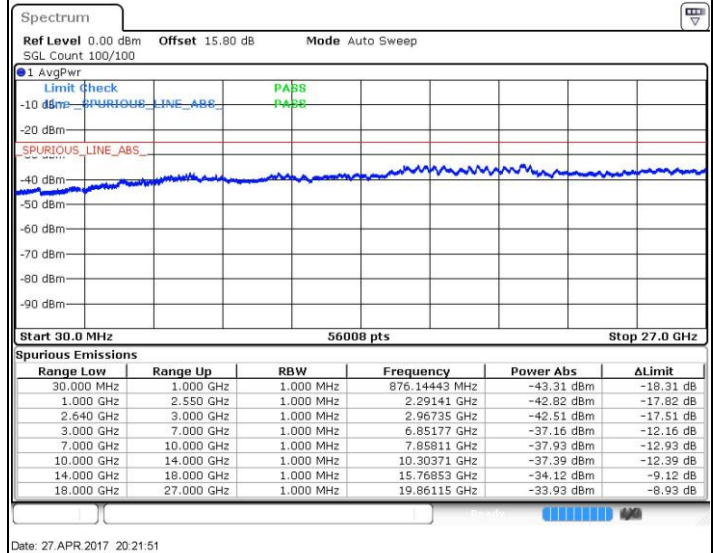


LTE Band 38 / 15MHz

Lowest Channel / 64QAM



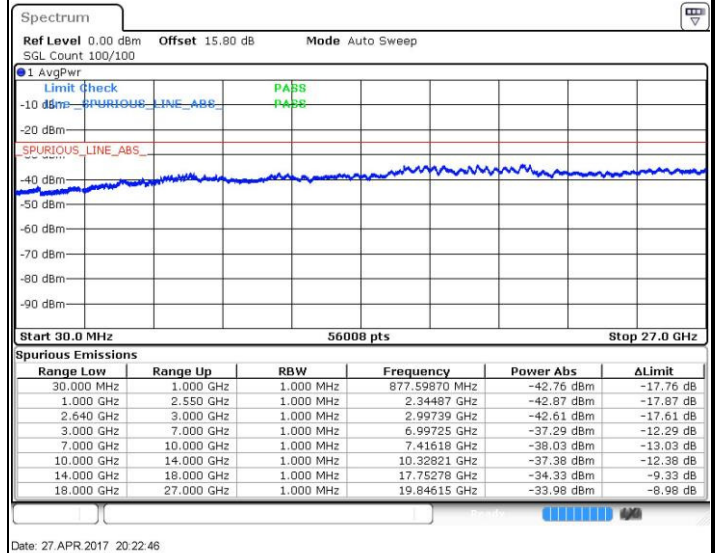
Middle Channel / 64QAM





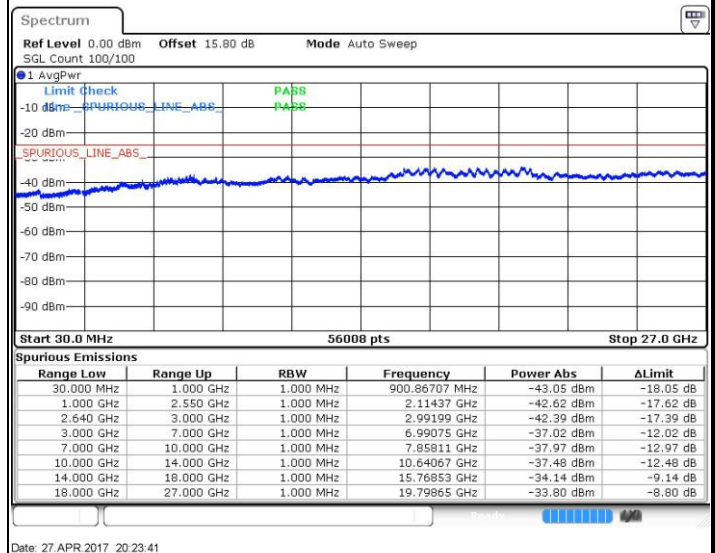
LTE Band 38 / 15MHz

Highest Channel / 64QAM



LTE Band 38 / 20MHz

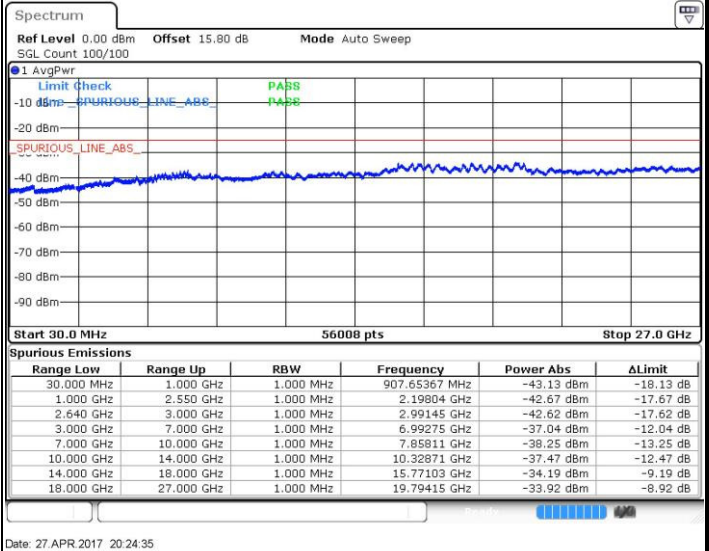
Lowest Channel / 64QAM



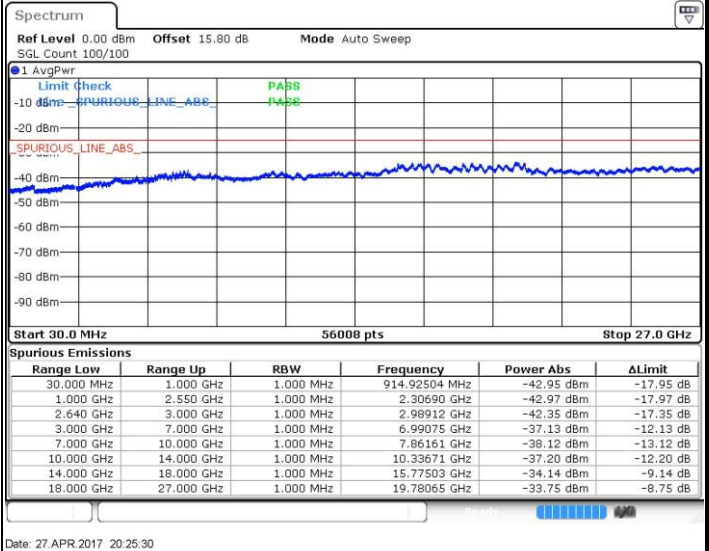


LTE Band 38 / 20MHz

Middle Channel / 64QAM



Highest Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0114	PASS
40	Normal Voltage	0.0108	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0110	

Note:

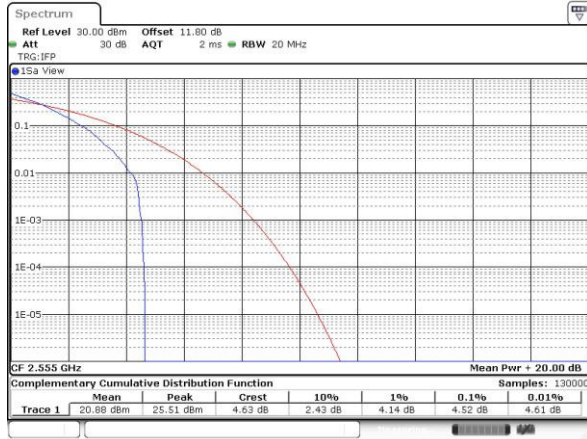
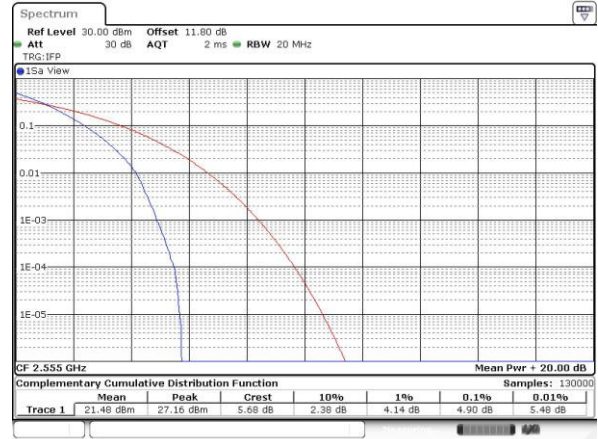
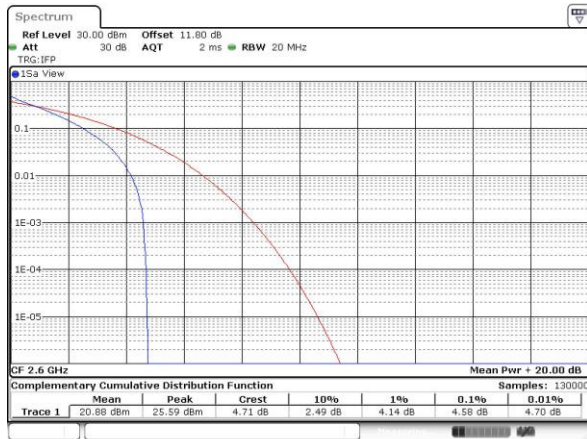
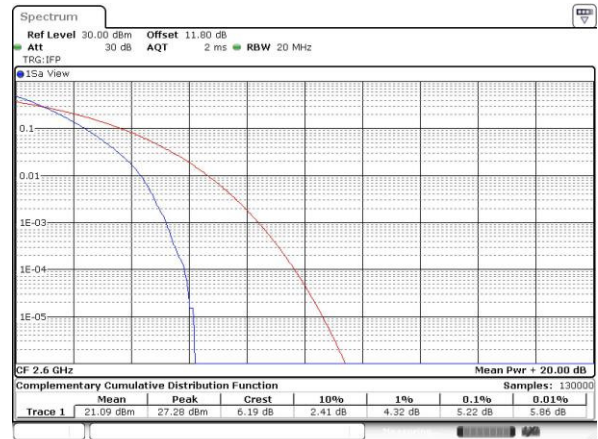
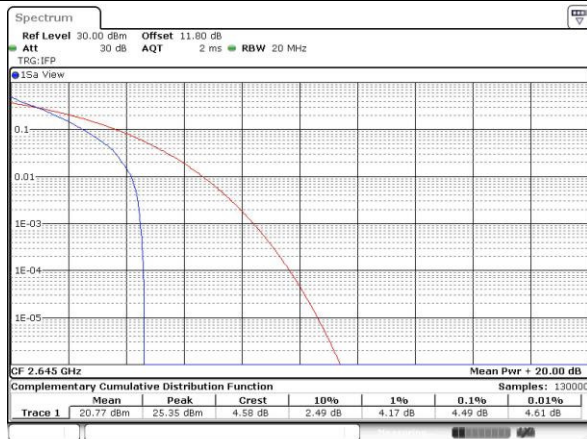
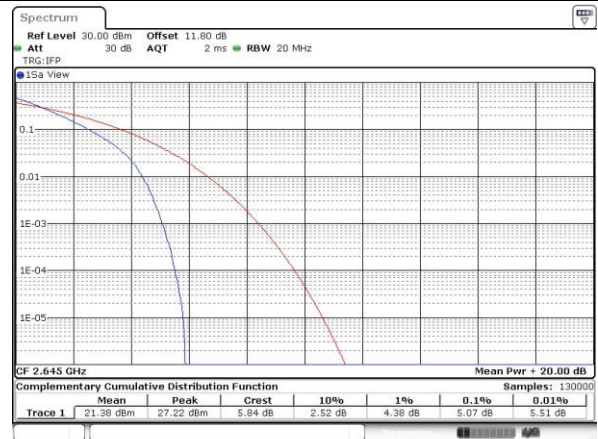
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

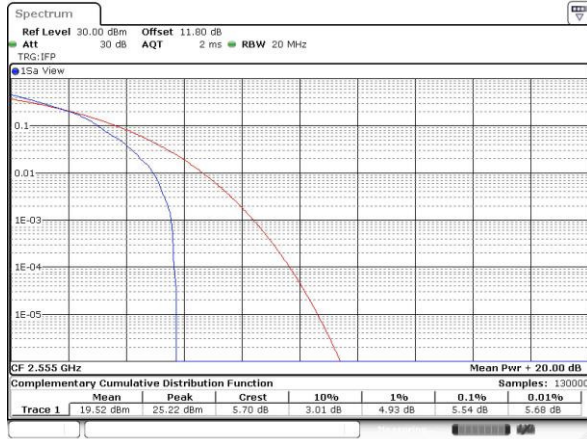
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	4.9	5.54	5.88	PASS
Middle CH	4.58	5.22	5.51	6.06	
Highest CH	4.49	5.07	5.45	6.09	
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.48	5.94	PASS
Middle CH	-	-	5.94	6.17	
Highest CH	-	-	5.51	6.17	

LTE Band 41 / 20MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


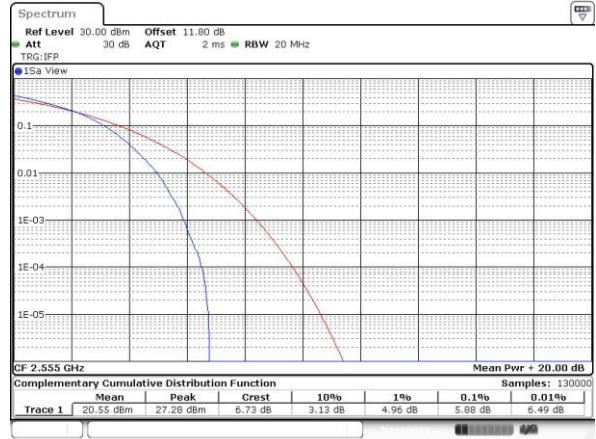


LTE Band 41 / 20MHz / 16QAM

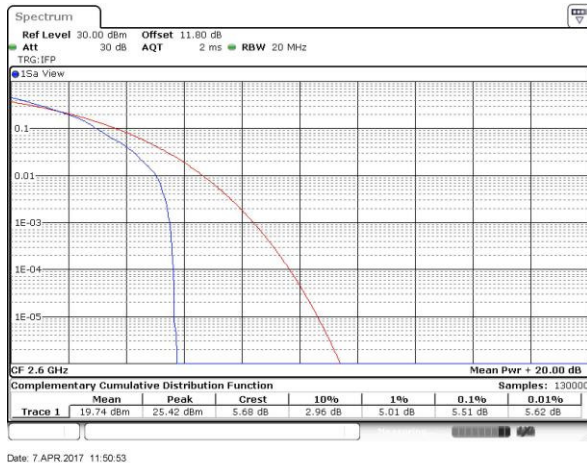
Lowest Channel / 1RB



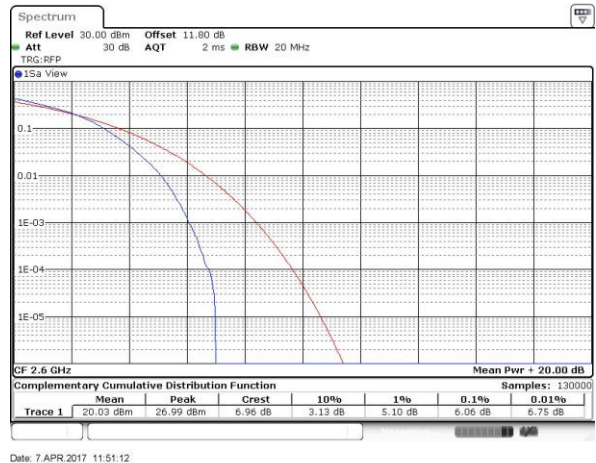
Lowest Channel / Full RB



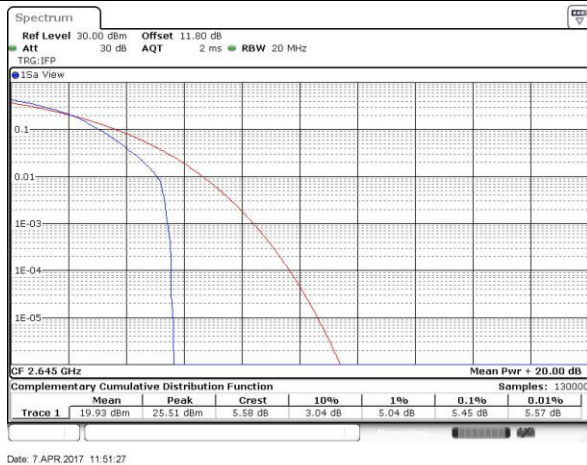
Middle Channel / 1RB



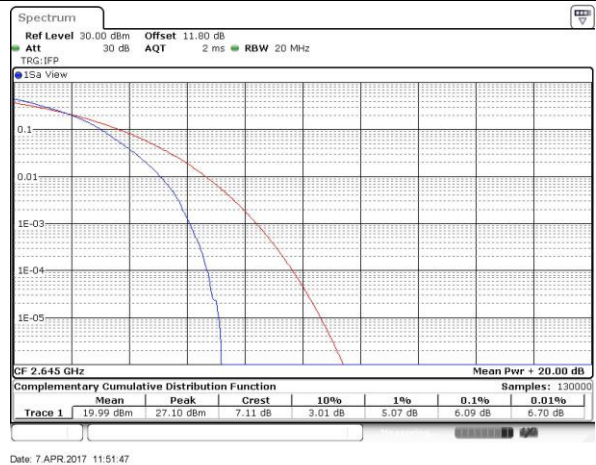
Middle Channel / Full RB



Highest Channel / 1RB



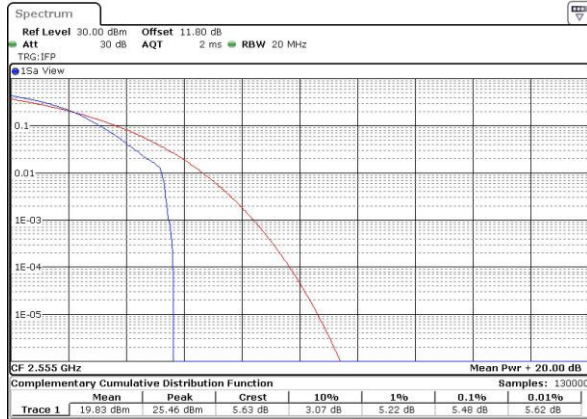
Highest Channel / Full RB



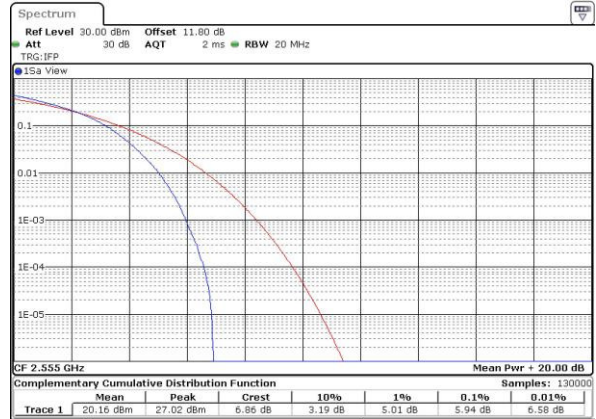


LTE Band 41 / 20MHz / 64QAM

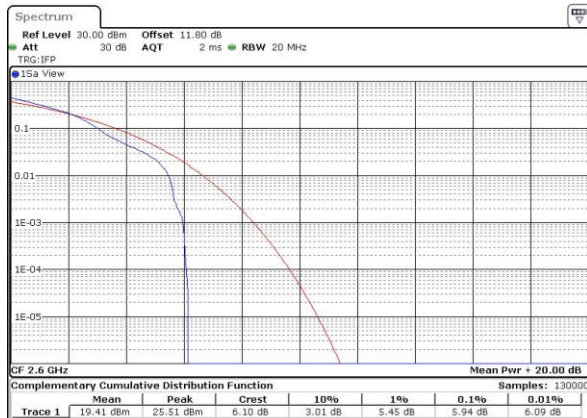
Lowest Channel / 1RB



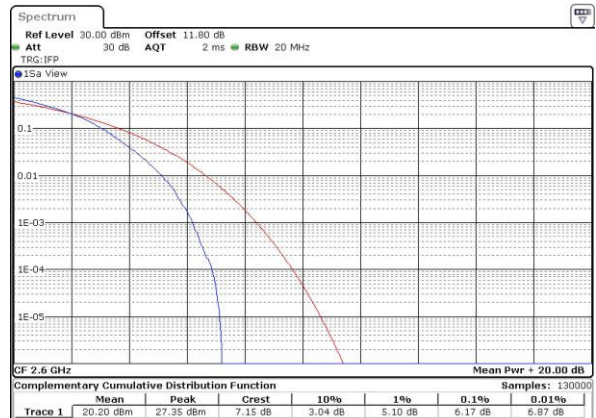
Lowest Channel / Full RB



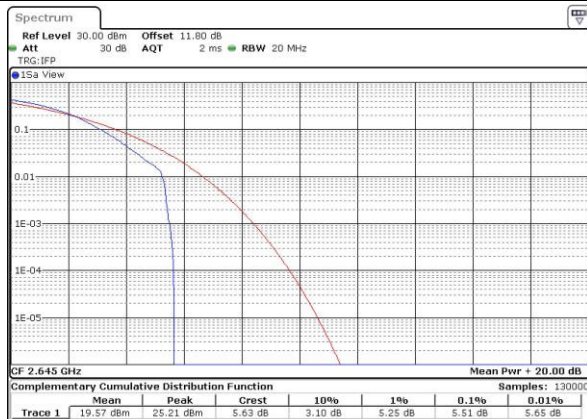
Middle Channel / 1RB



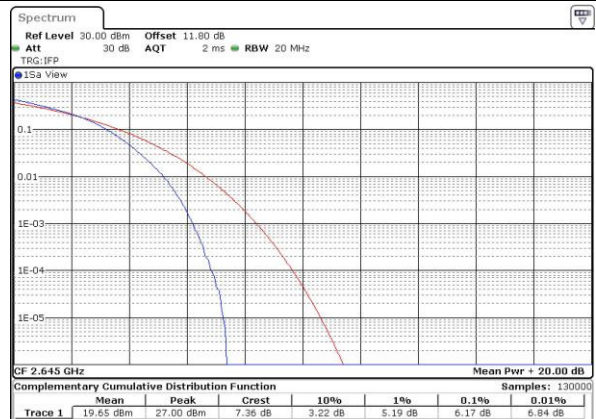
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



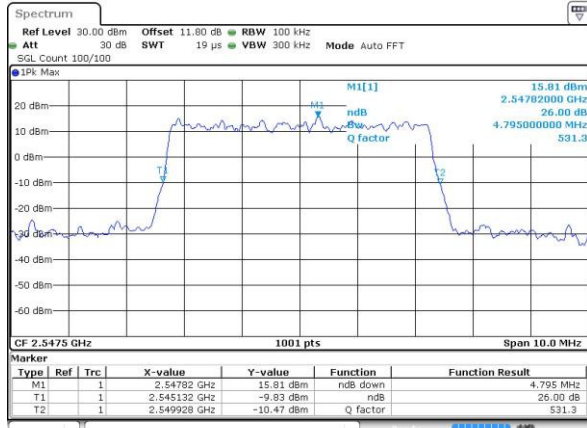
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.80	4.92	9.87	9.81	14.54	14.36	20.02	20.14
Middle CH	-	-	-	-	4.89	4.85	9.67	9.69	14.48	14.36	20.10	20.22
Highest CH	-	-	-	-	4.95	4.82	9.83	9.67	14.63	14.33	20.02	20.22
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.83	-	9.67	-	14.66	-	20.06
Middle CH	-	-	-	-	-	4.86	-	9.79	-	14.24	-	20.14
Highest CH	-	-	-	-	-	4.81	-	9.67	-	14.18	-	20.06



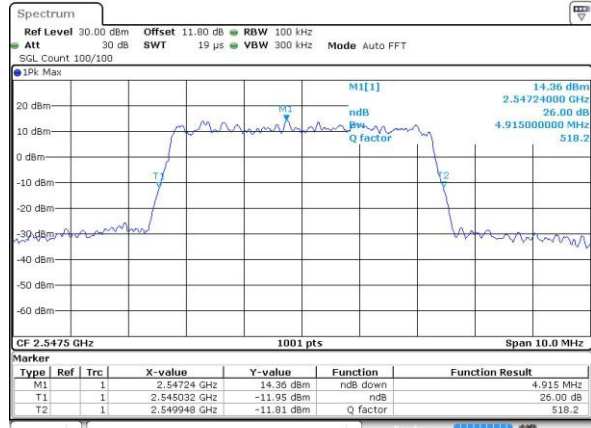
LTE Band 41

Lowest Channel / 5MHz / QPSK



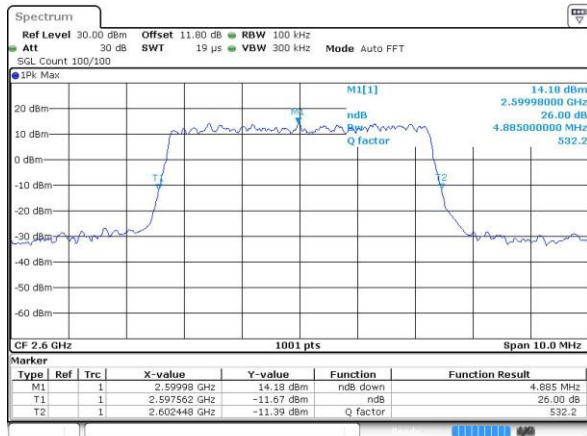
Date: 7 APR 2017 19:29:53

Lowest Channel / 5MHz / 16QAM



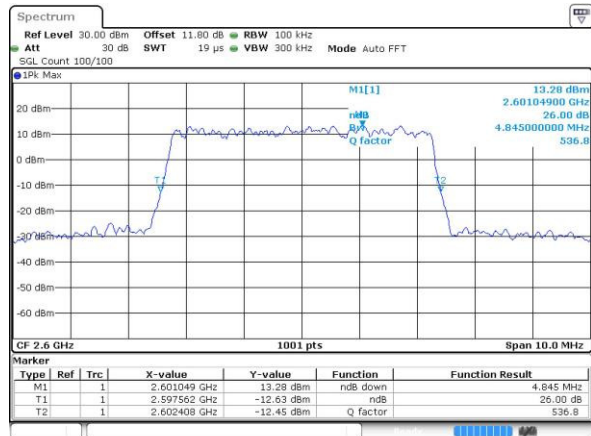
Date: 7 APR 2017 19:30:03

Middle Channel / 5MHz / QPSK



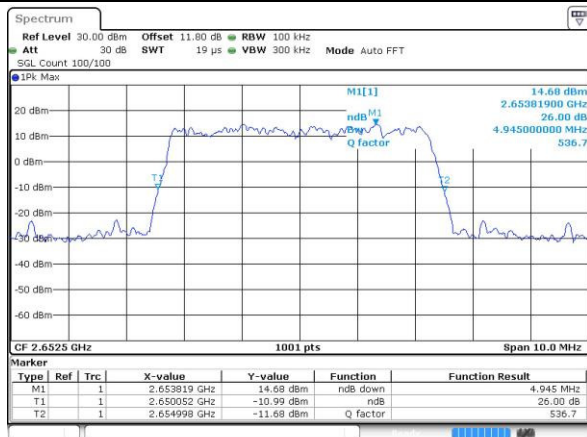
Date: 7 APR 2017 19:30:35

Middle Channel / 5MHz / 16QAM



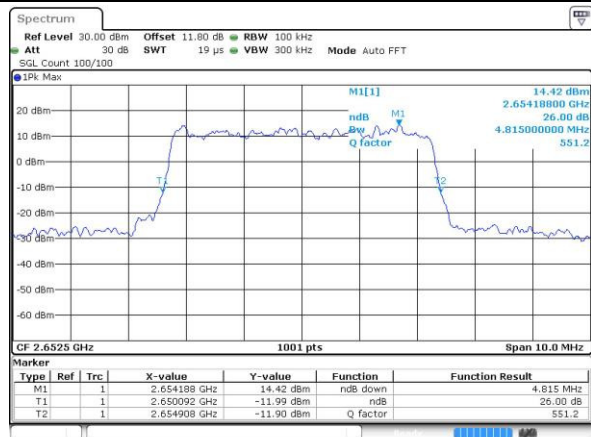
Date: 7 APR 2017 19:30:45

Highest Channel / 5MHz / QPSK



Date: 7 APR 2017 19:31:16

Highest Channel / 5MHz / 16QAM

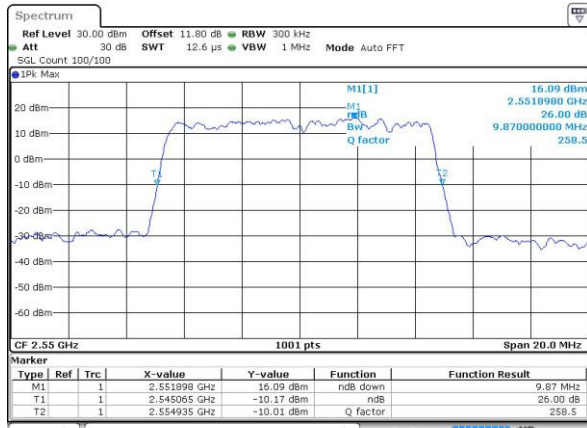


Date: 7 APR 2017 19:31:26

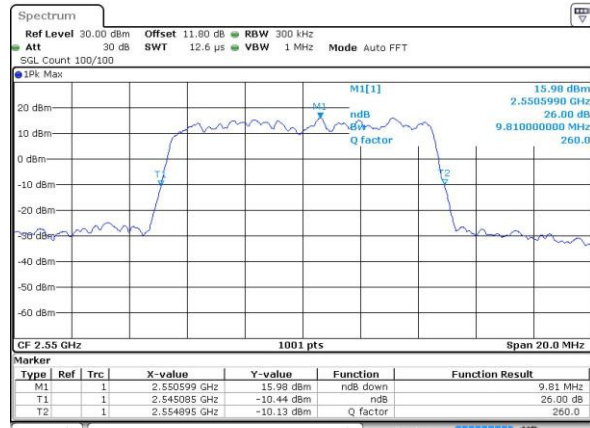


LTE Band 41

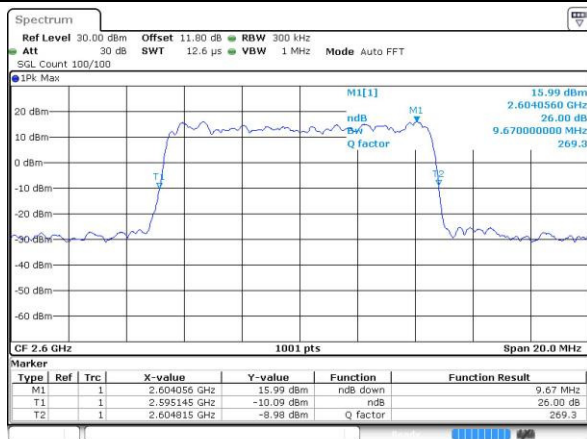
Lowest Channel / 10MHz / QPSK



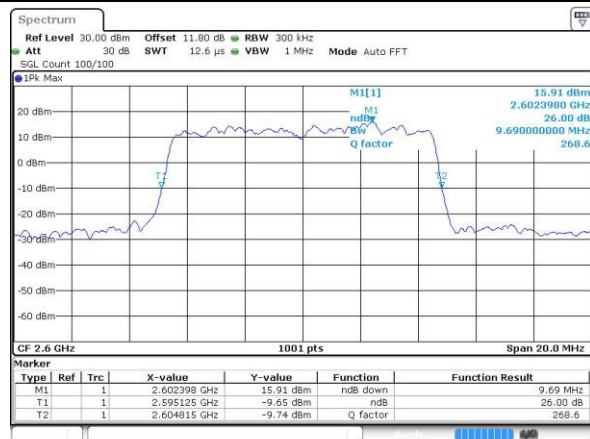
Lowest Channel / 10MHz / 16QAM



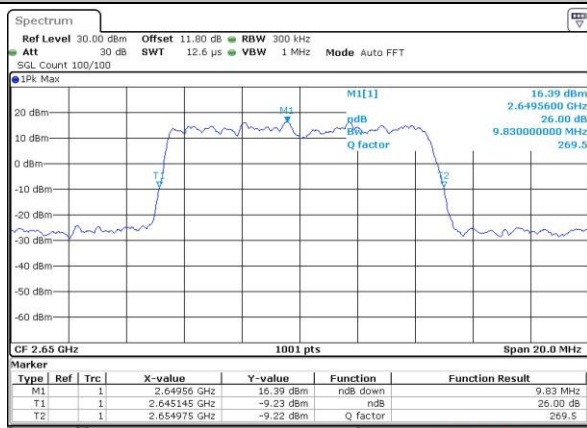
Middle Channel / 10MHz / QPSK



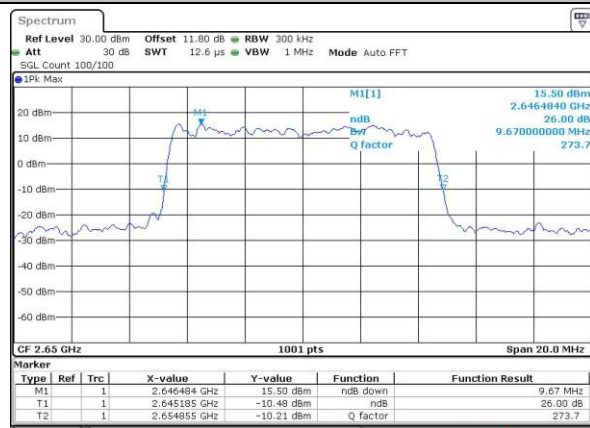
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



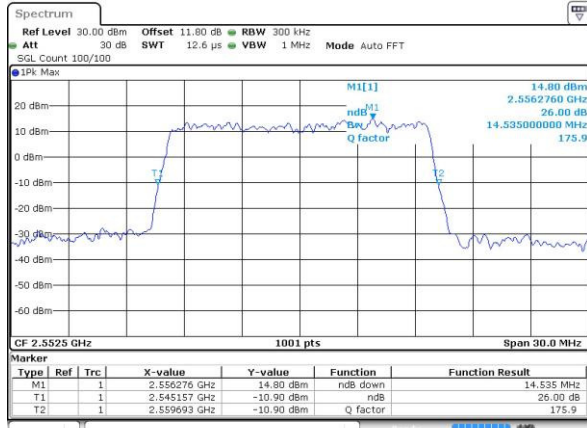
Highest Channel / 10MHz / 16QAM





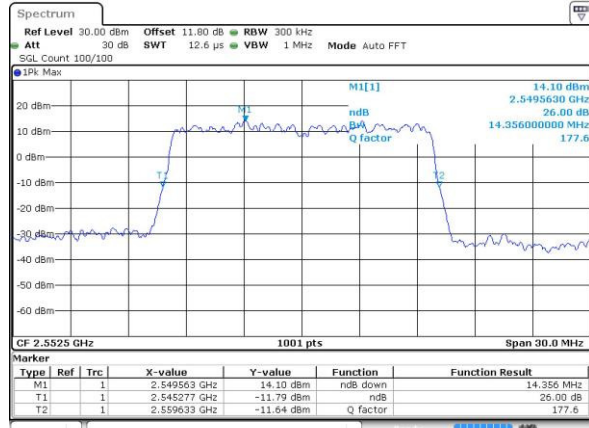
LTE Band 41

Lowest Channel / 15MHz / QPSK



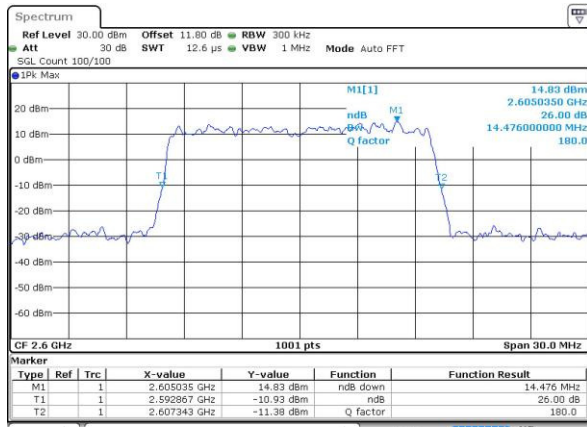
Date: 7 APR 2017 11:17:58

Lowest Channel / 15MHz / 16QAM



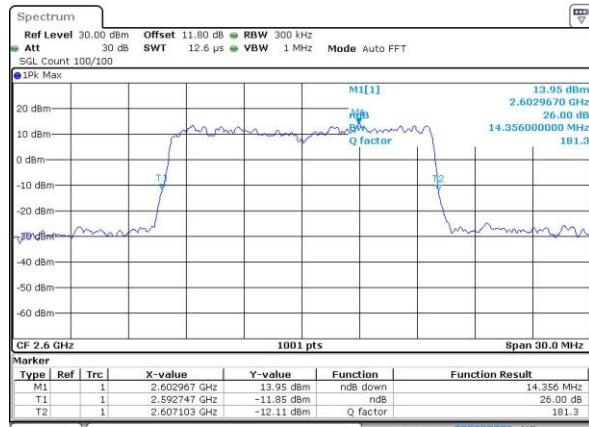
Date: 7 APR 2017 11:18:08

Middle Channel / 15MHz / QPSK



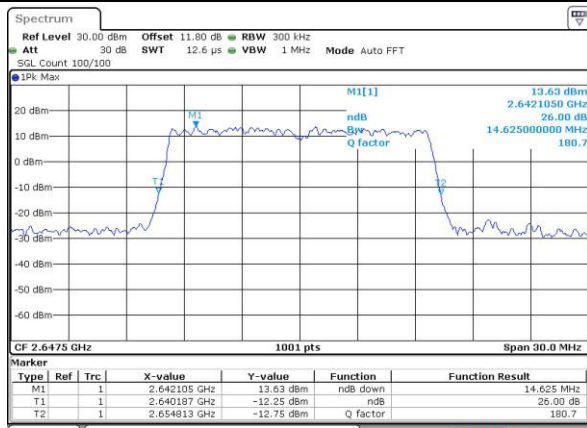
Date: 7 APR 2017 11:18:39

Middle Channel / 15MHz / 16QAM



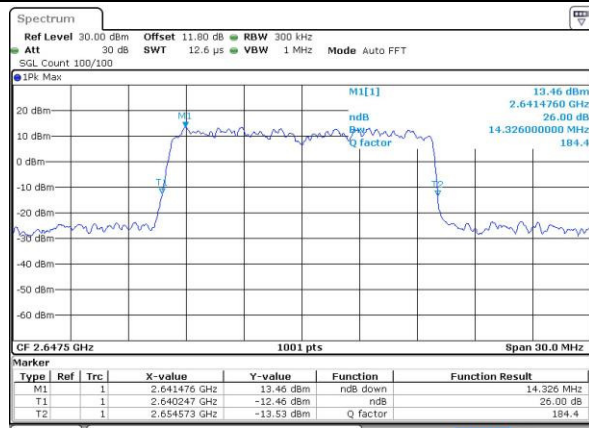
Date: 7 APR 2017 11:18:50

Highest Channel / 15MHz / QPSK



Date: 7 APR 2017 11:19:21

Highest Channel / 15MHz / 16QAM

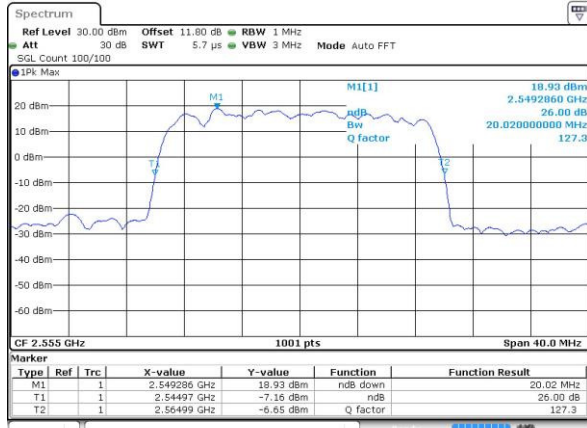


Date: 7 APR 2017 11:19:31



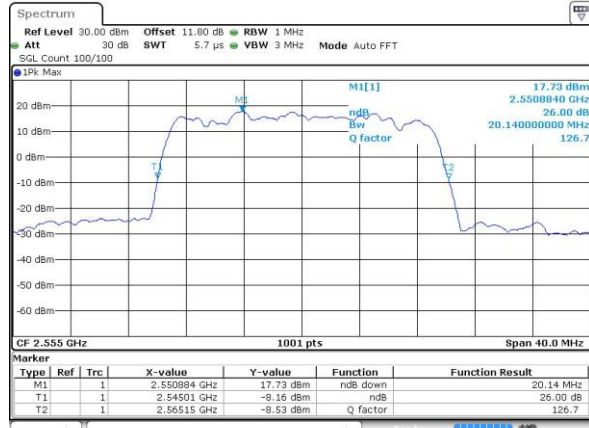
LTE Band 41

Lowest Channel / 20MHz / QPSK



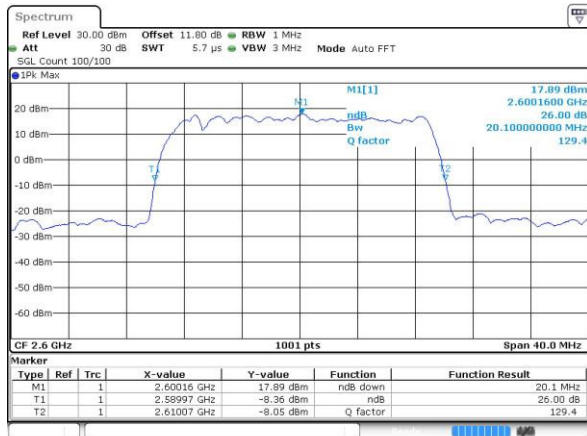
Date: 7 APR 2017 11:20:02

Lowest Channel / 20MHz / 16QAM



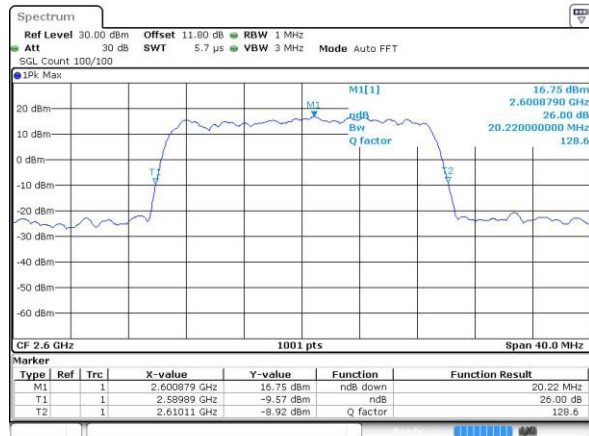
Date: 7 APR 2017 11:20:12

Middle Channel / 20MHz / QPSK



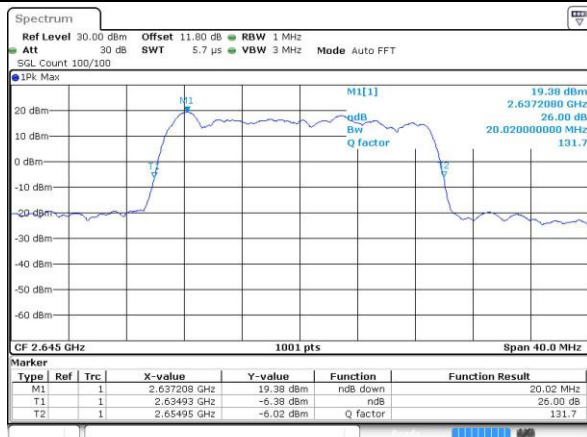
Date: 7 APR 2017 11:20:43

Middle Channel / 20MHz / 16QAM



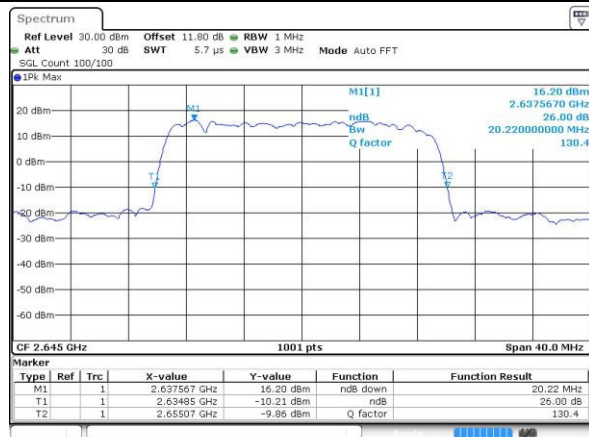
Date: 7 APR 2017 11:20:54

Highest Channel / 20MHz / QPSK



Date: 7 APR 2017 11:21:25

Highest Channel / 20MHz / 16QAM

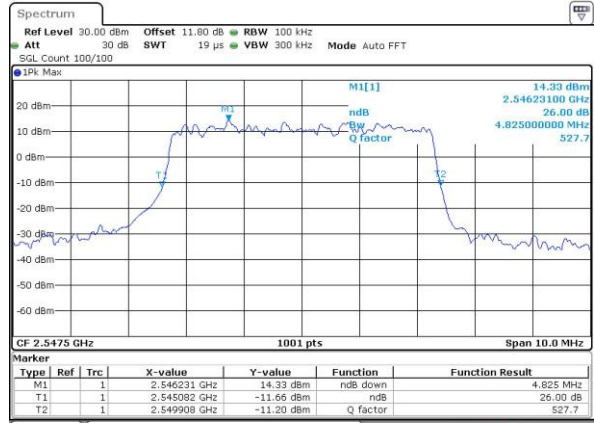


Date: 7 APR 2017 11:21:35



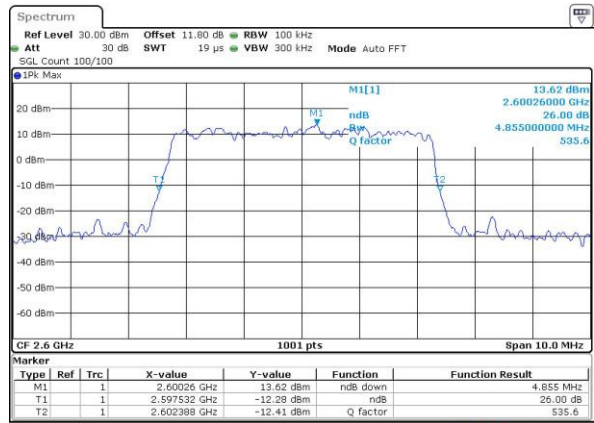
LTE Band 41

Lowest Channel / 5MHz / 64QAM



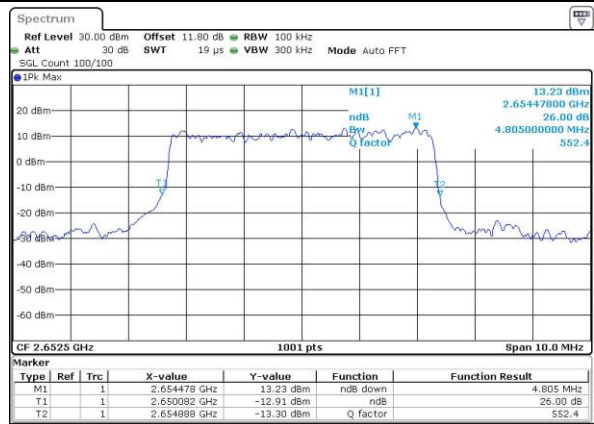
Date: 27 APR 2017 20:28:05

Middle Channel / 5MHz / 64QAM



Date: 27 APR 2017 20:28:47

Highest Channel / 5MHz / 64QAM

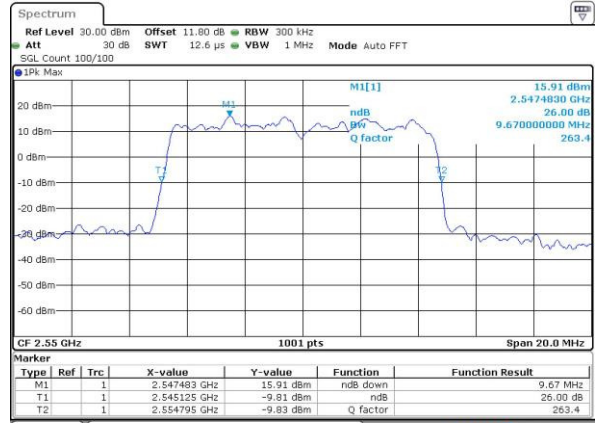


Date: 27 APR 2017 20:29:28

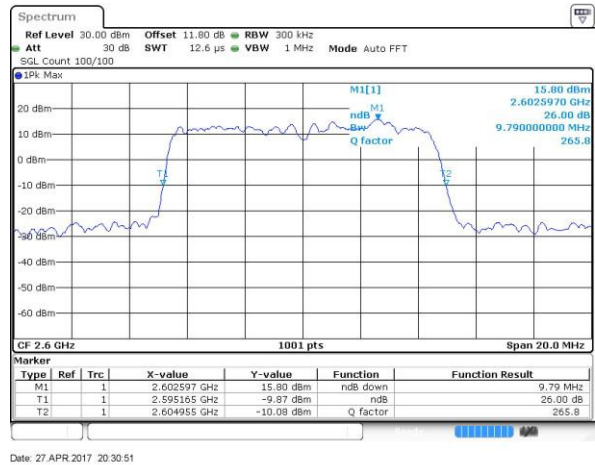


LTE Band 41

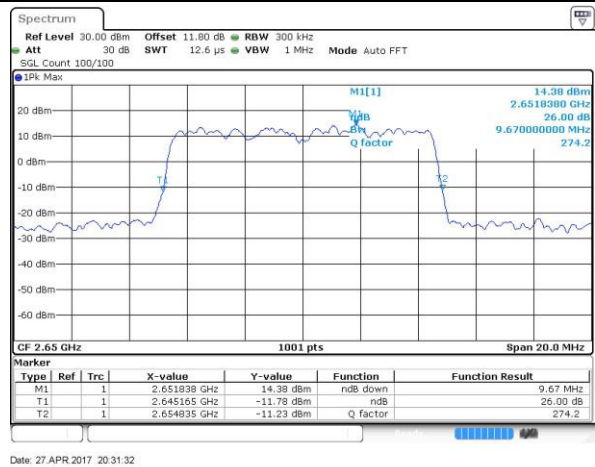
Lowest Channel / 10MHz / 64QAM



Middle Channel / 10MHz / 64QAM



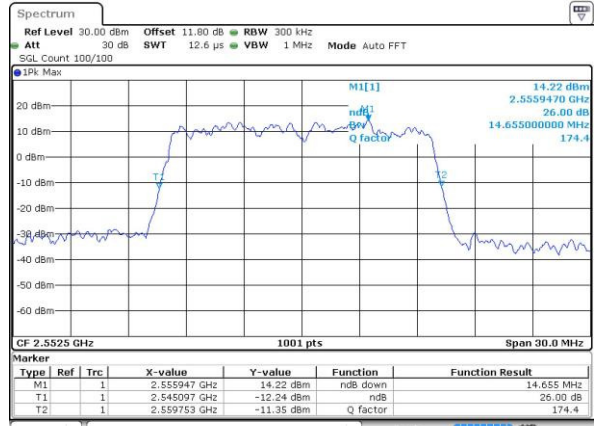
Highest Channel / 10MHz / 64QAM



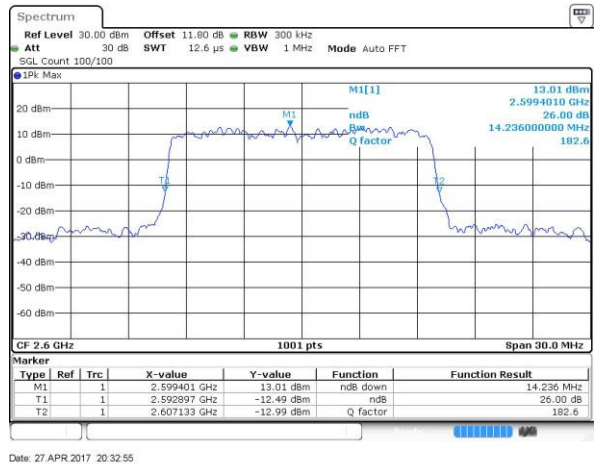


LTE Band 41

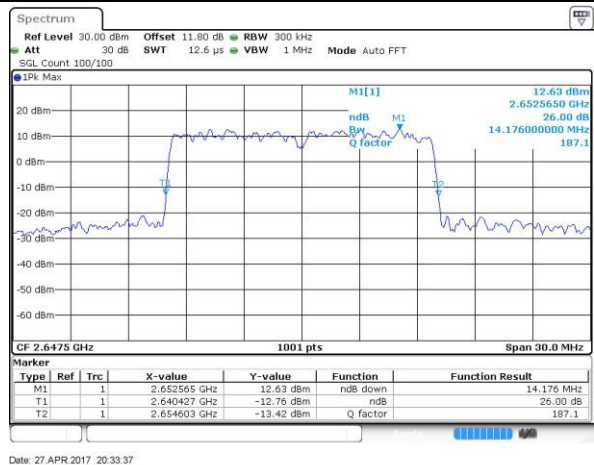
Lowest Channel / 15MHz / 64QAM



Middle Channel / 15MHz / 64QAM



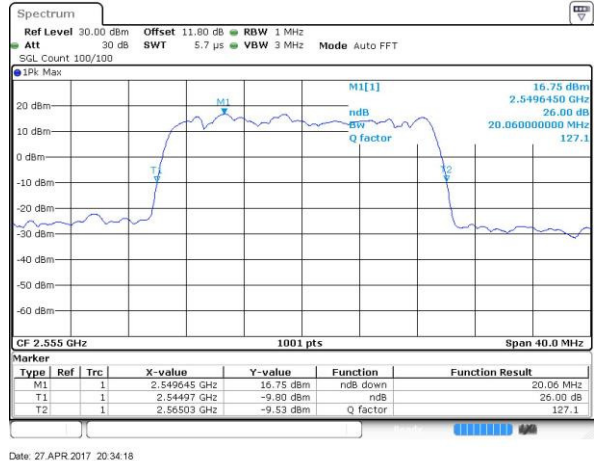
Highest Channel / 15MHz / 64QAM



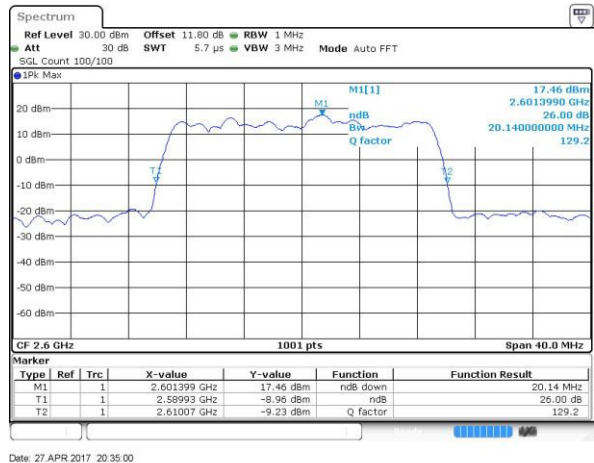


LTE Band 41

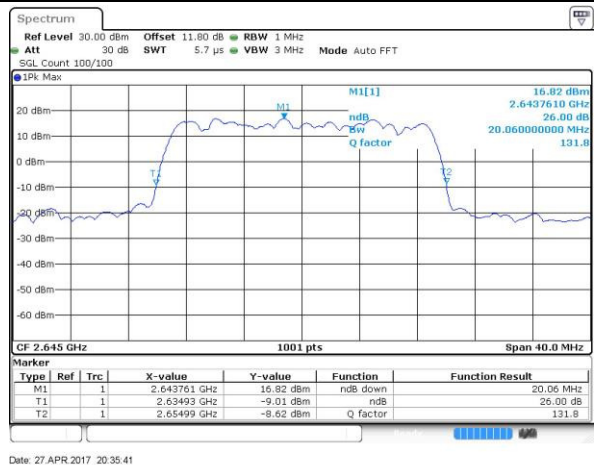
Lowest Channel / 20MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 20MHz / 64QAM



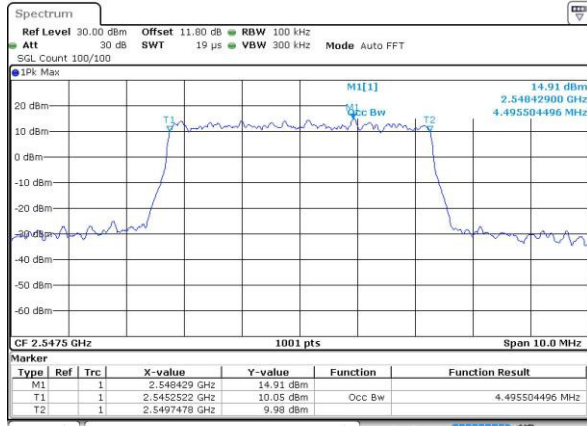
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.5	4.46	8.99	8.97	13.43	13.4	18.1	18.3
Middle CH	-	-	-	-	4.48	4.48	9.03	9.03	13.43	13.46	18.38	18.38
Highest CH	-	-	-	-	4.5	4.5	9.05	9.03	13.46	13.43	18.42	18.18
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.48	-	9.07	-	13.49	-	18.14
Middle CH	-	-	-	-	-	4.48	-	8.99	-	13.37	-	18.22
Highest CH	-	-	-	-	-	4.52	-	9.03	-	13.43	-	18.58



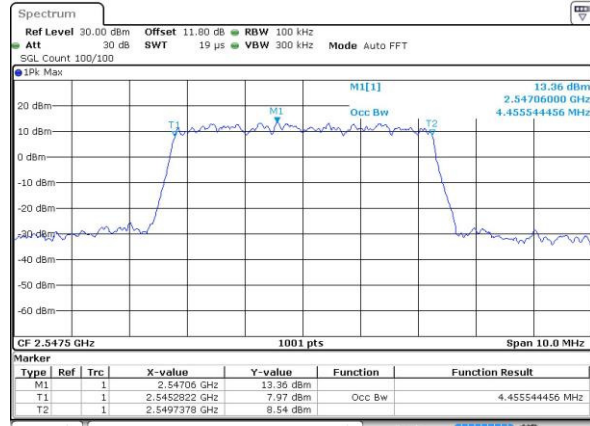
LTE Band 41

Lowest Channel / 5MHz / QPSK



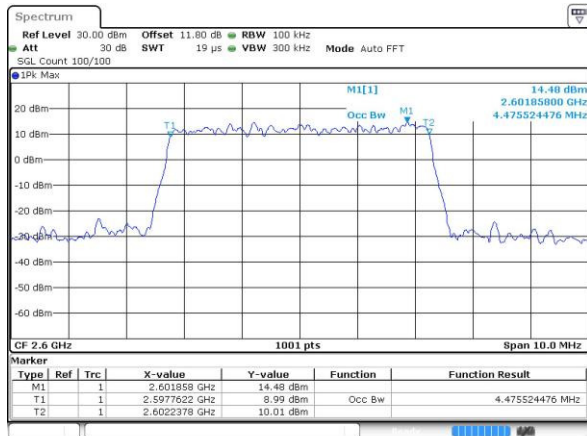
Date: 7 APR 2017 19:29:32

Lowest Channel / 5MHz / 16QAM



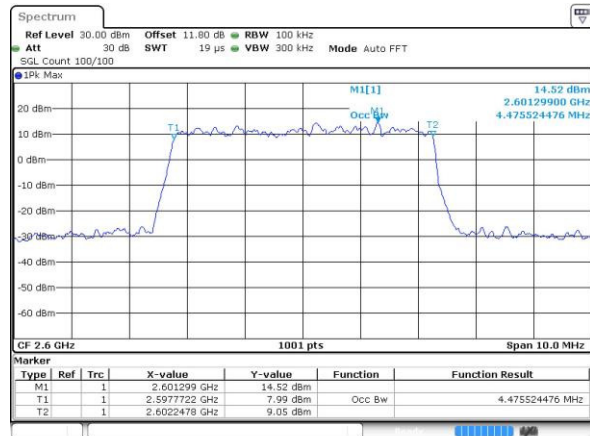
Date: 7 APR 2017 19:29:43

Middle Channel / 5MHz / QPSK



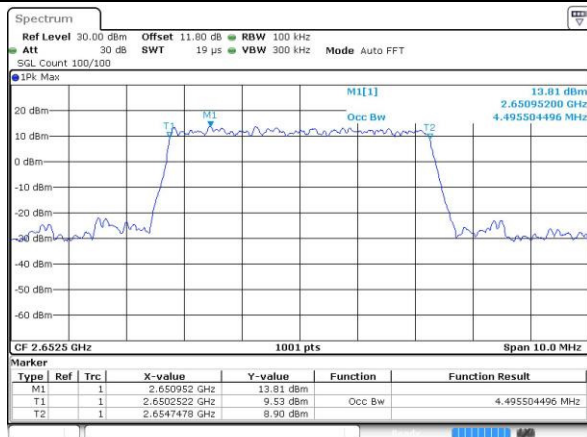
Date: 7 APR 2017 19:30:14

Middle Channel / 5MHz / 16QAM



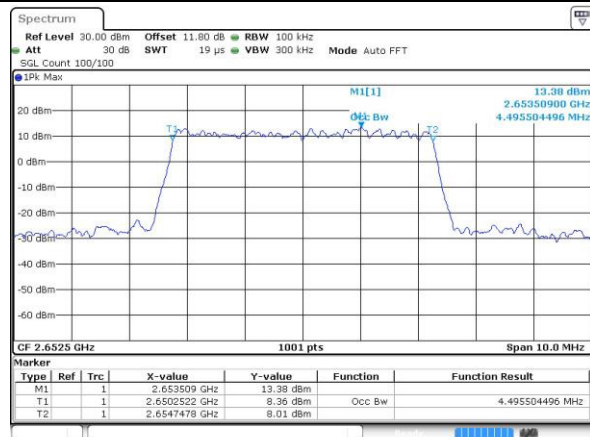
Date: 7 APR 2017 19:30:24

Highest Channel / 5MHz / QPSK



Date: 7 APR 2017 19:30:55

Highest Channel / 5MHz / 16QAM

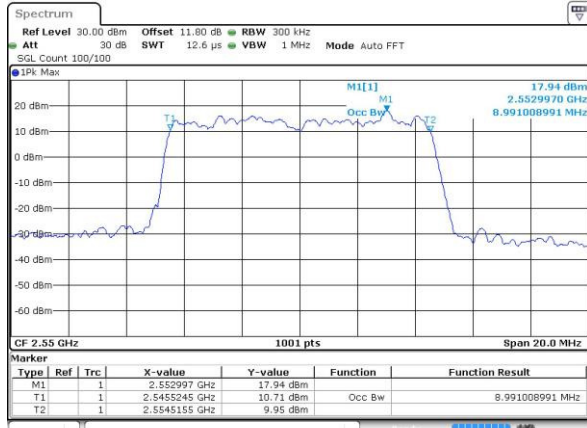


Date: 7 APR 2017 19:31:06



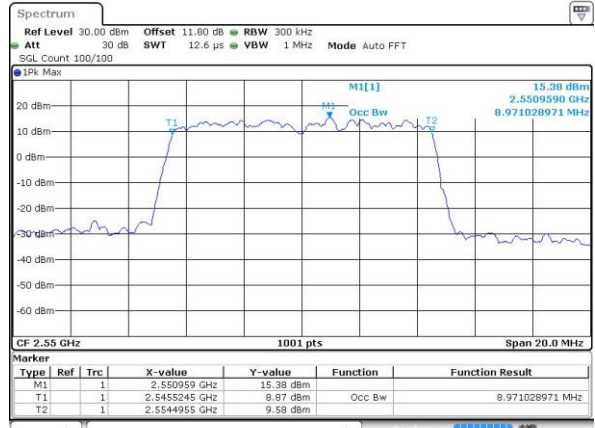
LTE Band 41

Lowest Channel / 10MHz / QPSK



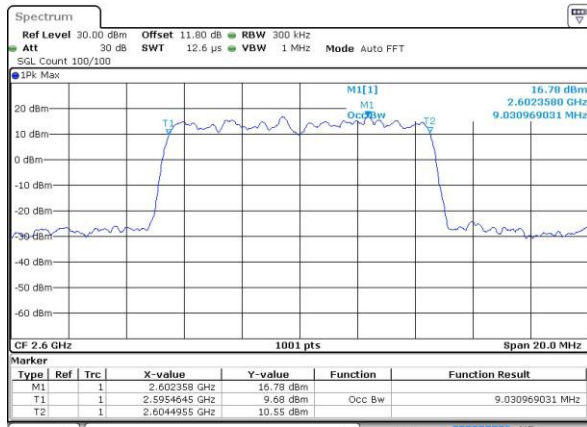
Date: 7 APR 2017 19:31:37

Lowest Channel / 10MHz / 16QAM



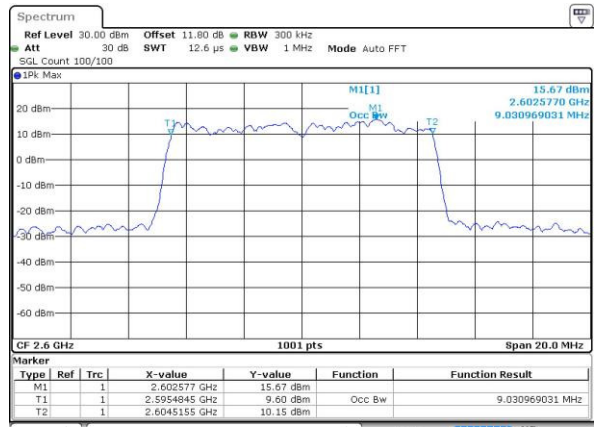
Date: 7 APR 2017 19:31:47

Middle Channel / 10MHz / QPSK



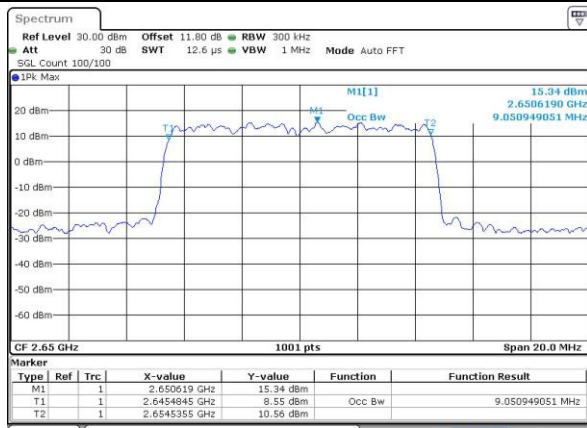
Date: 7 APR 2017 19:32:18

Middle Channel / 10MHz / 16QAM



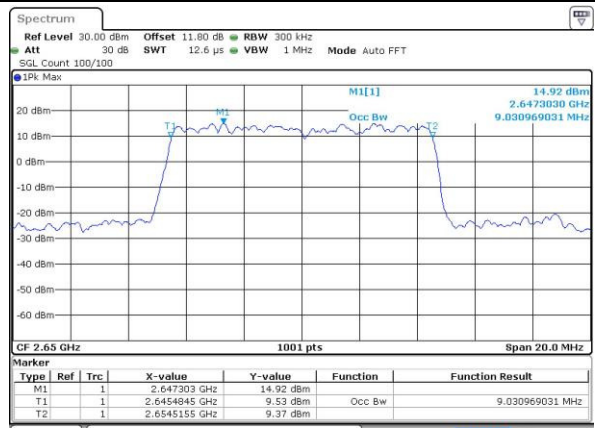
Date: 7 APR 2017 19:32:25

Highest Channel / 10MHz / QPSK



Date: 7 APR 2017 19:33:18

Highest Channel / 10MHz / 16QAM

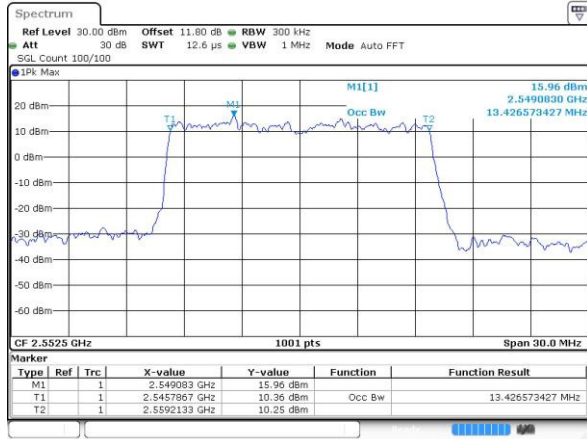


Date: 7 APR 2017 19:33:28



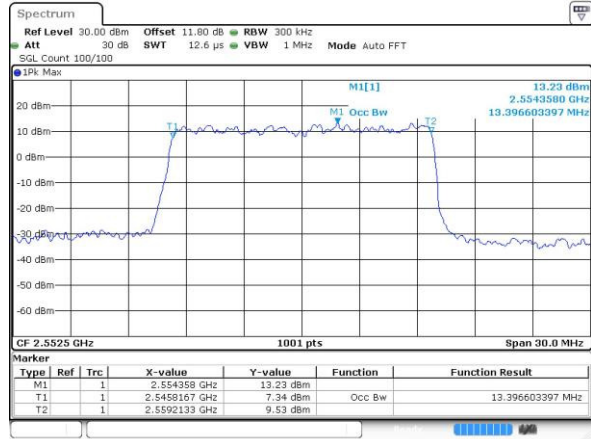
LTE Band 41

Lowest Channel / 15MHz / QPSK



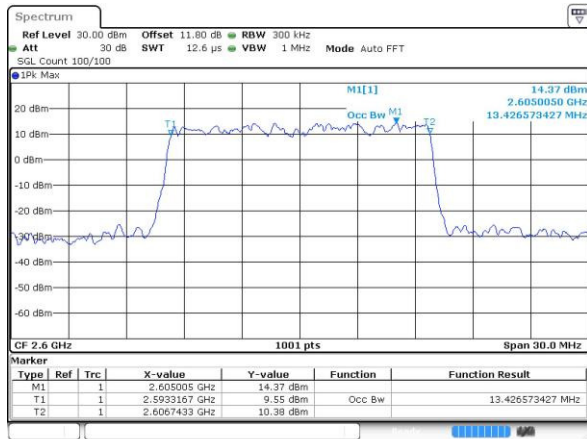
Date: 7 APR 2017 11:17:37

Lowest Channel / 15MHz / 16QAM



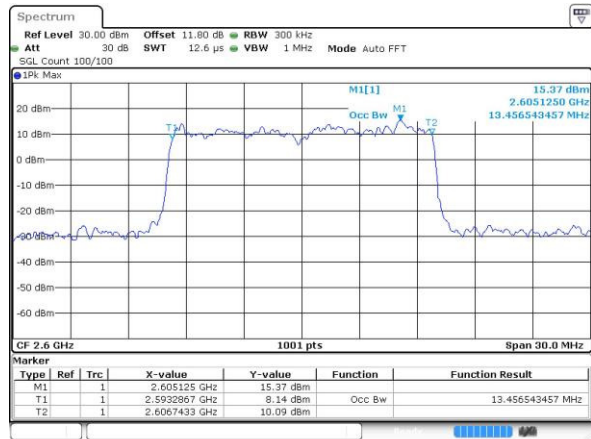
Date: 7 APR 2017 11:17:48

Middle Channel / 15MHz / QPSK



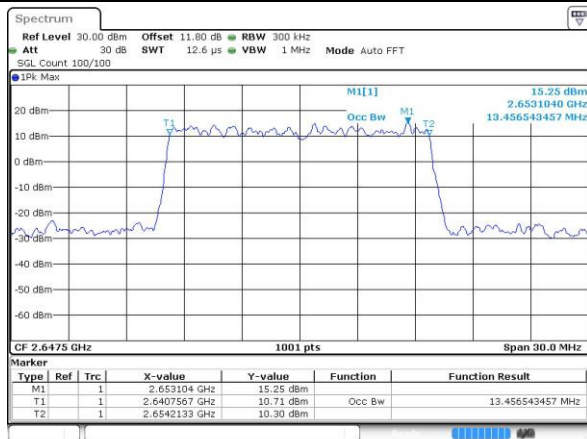
Date: 7 APR 2017 11:18:19

Middle Channel / 15MHz / 16QAM



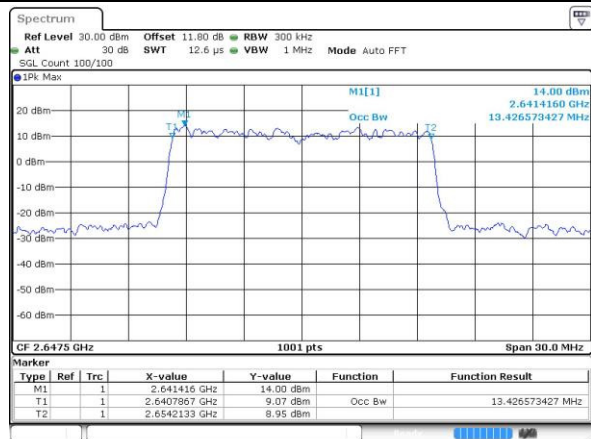
Date: 7 APR 2017 11:18:25

Highest Channel / 15MHz / QPSK



Date: 7 APR 2017 11:19:00

Highest Channel / 15MHz / 16QAM

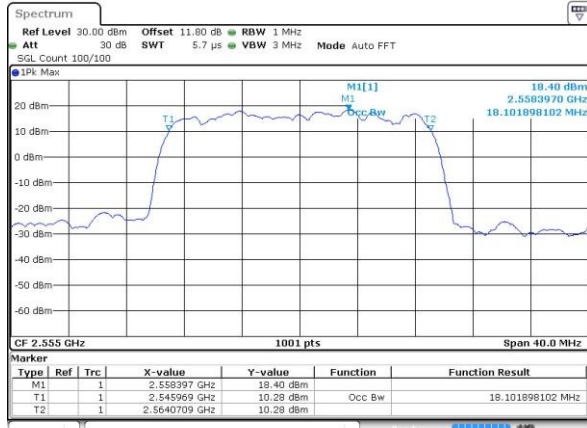


Date: 7 APR 2017 11:19:10



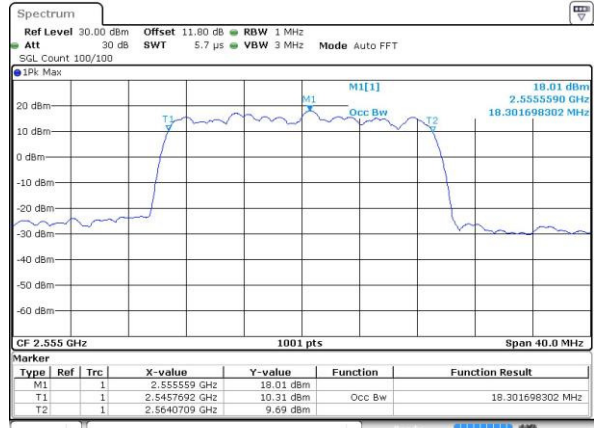
LTE Band 41

Lowest Channel / 20MHz / QPSK



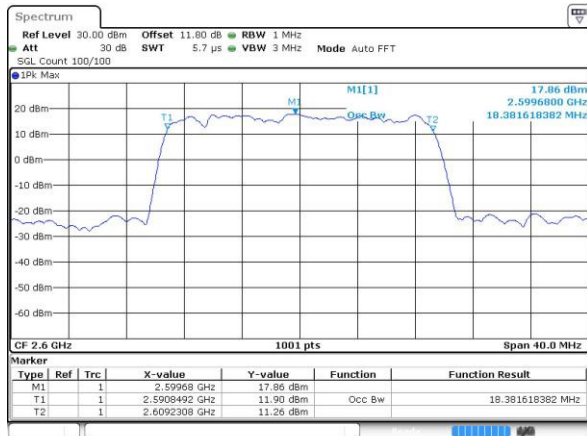
Date: 7 APR 2017 11:19:41

Lowest Channel / 20MHz / 16QAM



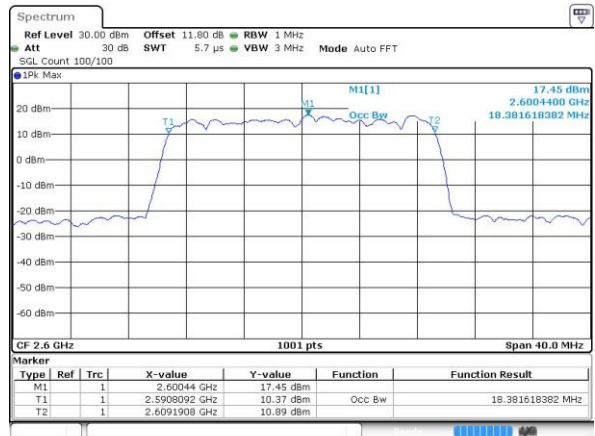
Date: 7 APR 2017 11:19:52

Middle Channel / 20MHz / QPSK



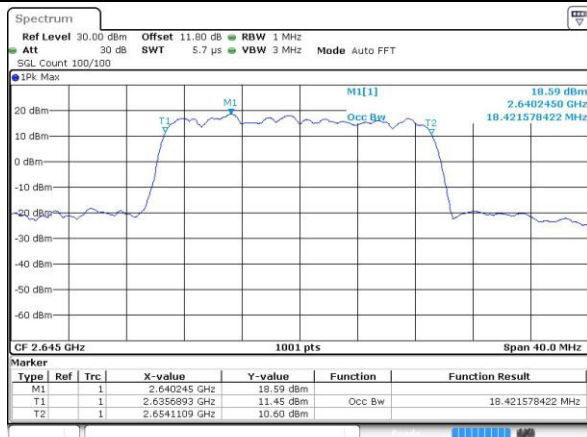
Date: 7 APR 2017 11:20:23

Middle Channel / 20MHz / 16QAM



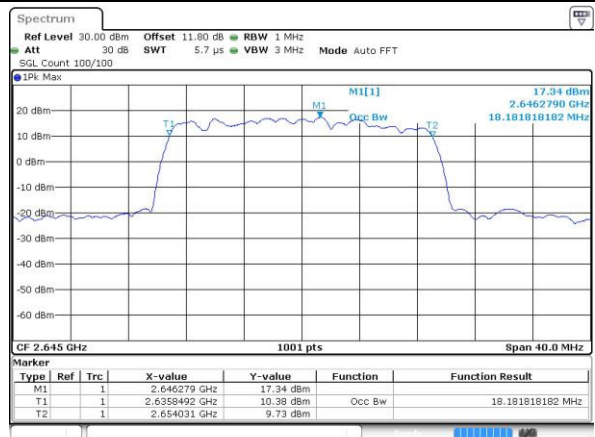
Date: 7 APR 2017 11:20:33

Highest Channel / 20MHz / QPSK



Date: 7 APR 2017 11:21:04

Highest Channel / 20MHz / 16QAM



Date: 7 APR 2017 11:21:14