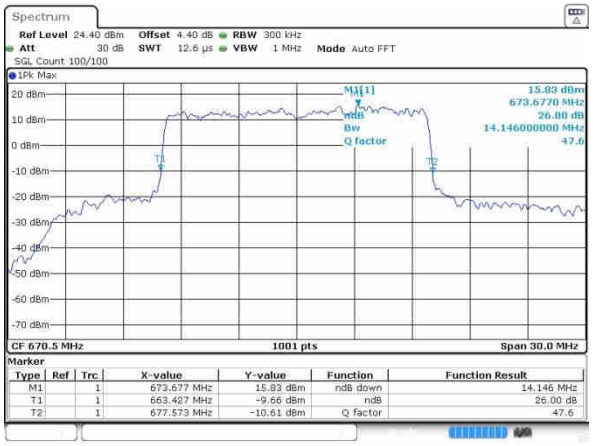
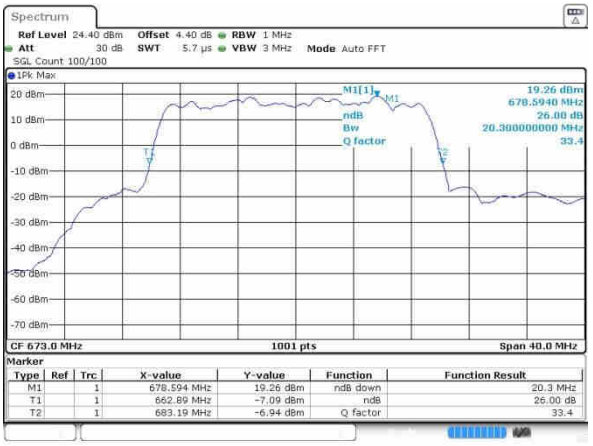
LTE Band 71

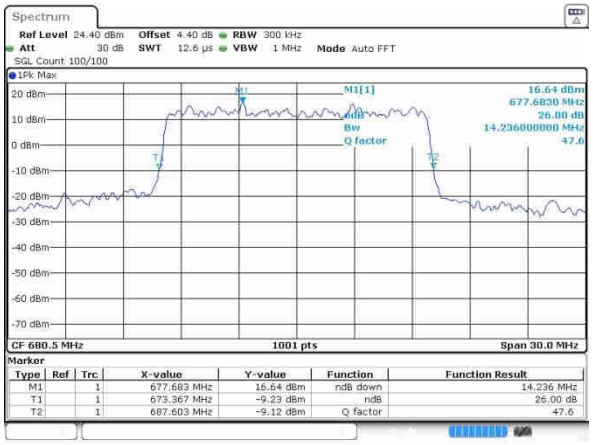
Lowest Channel / 15MHz / 64QAM



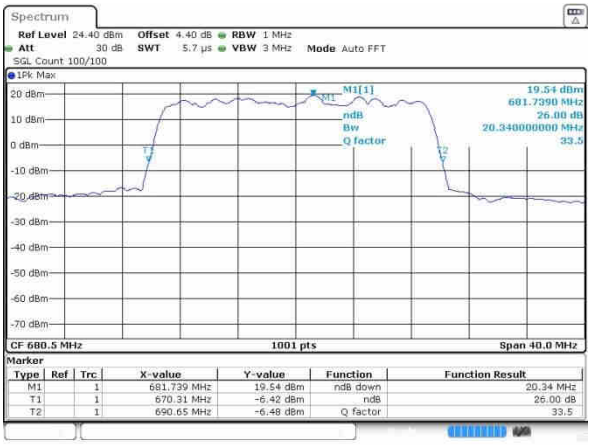
Lowest Channel / 20MHz / 64QAM



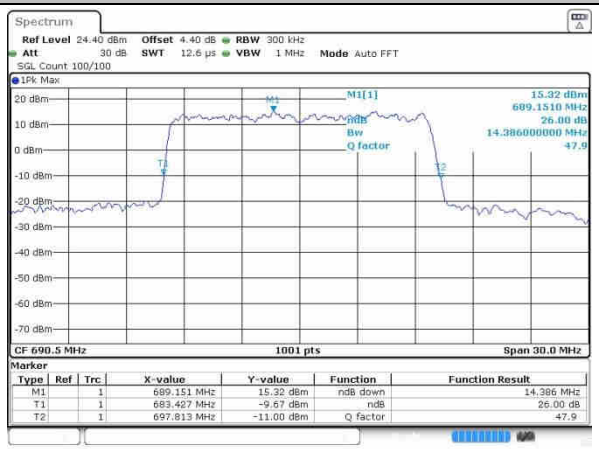
Middle Channel / 15MHz / 64QAM



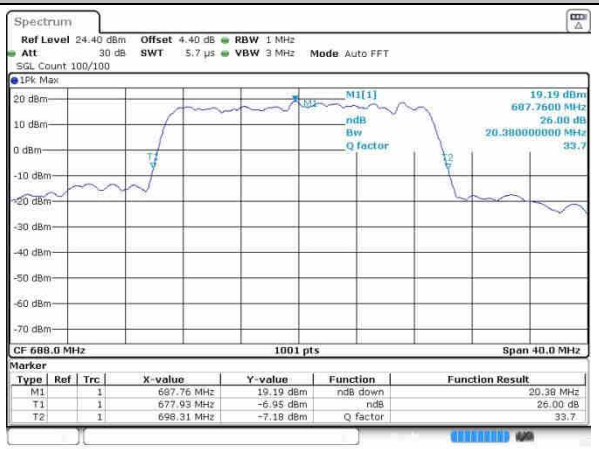
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

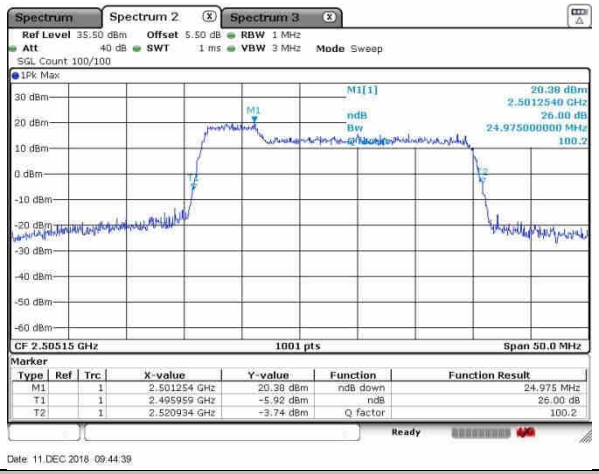


For CA:

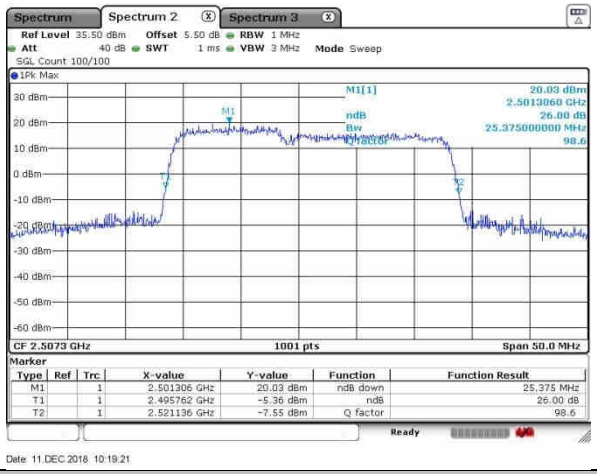
LTE Band 41

QPSK

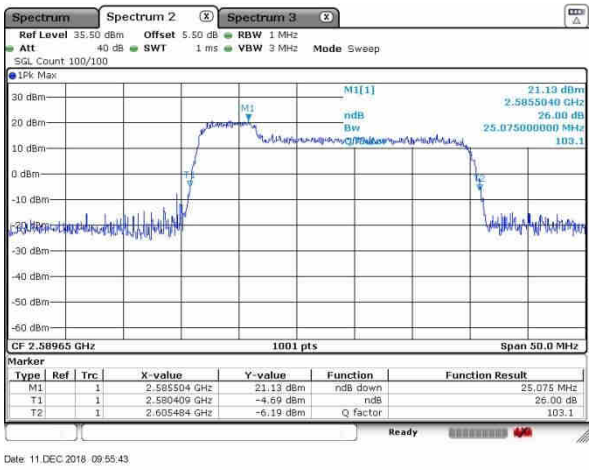
Lowest Channel / 5MHz+20MHz



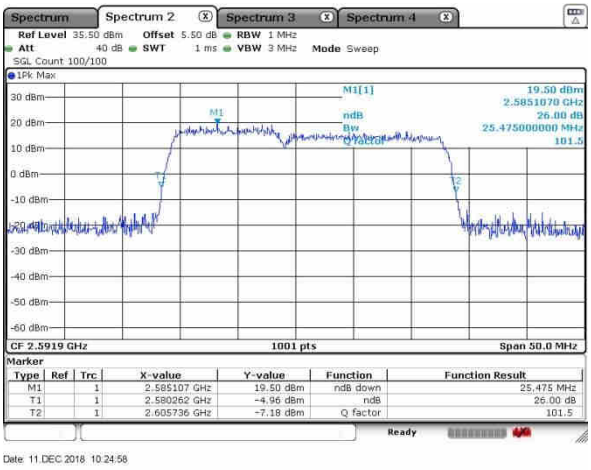
Lowest Channel / 10MHz+15MHz



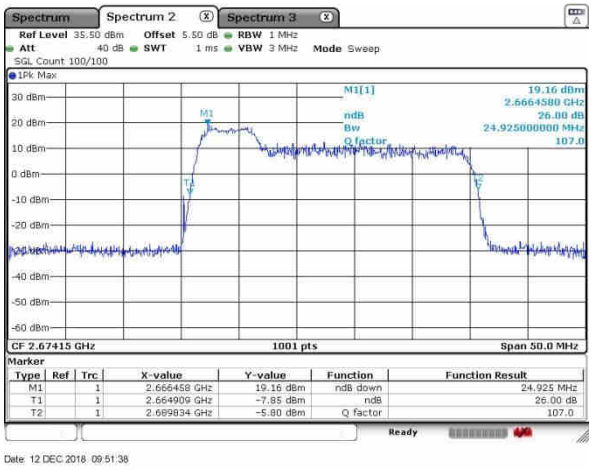
Middle Channel / 5MHz+20MHz



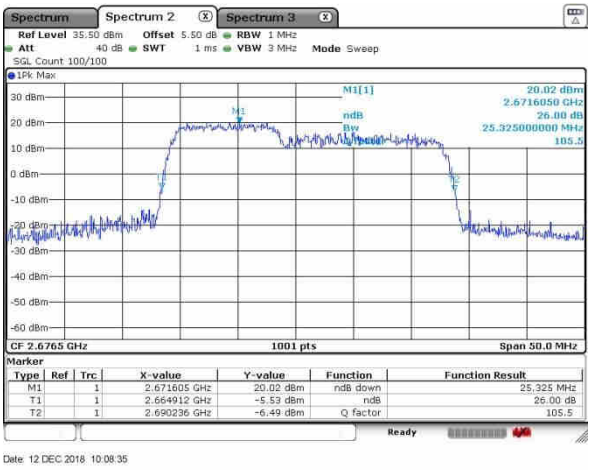
Middle Channel / 10MHz+15MHz



Highest Channel / 5MHz+20MHz



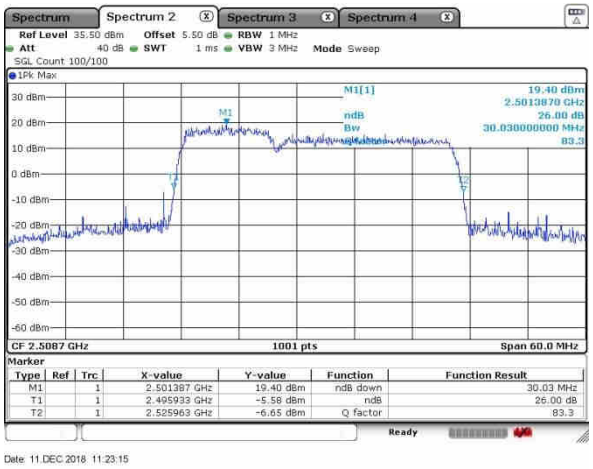
Highest Channel / 10MHz+15MHz



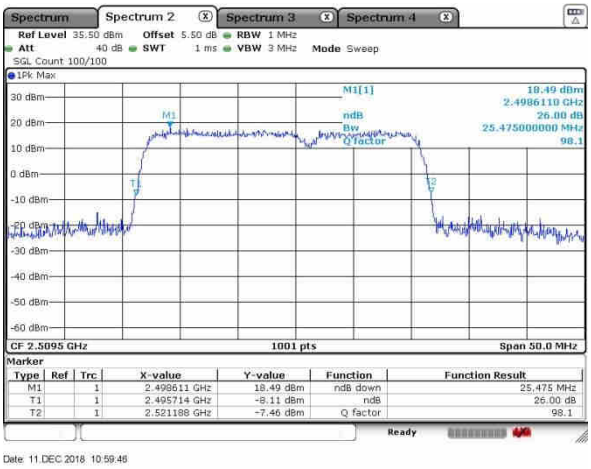
LTE Band 41

QPSK

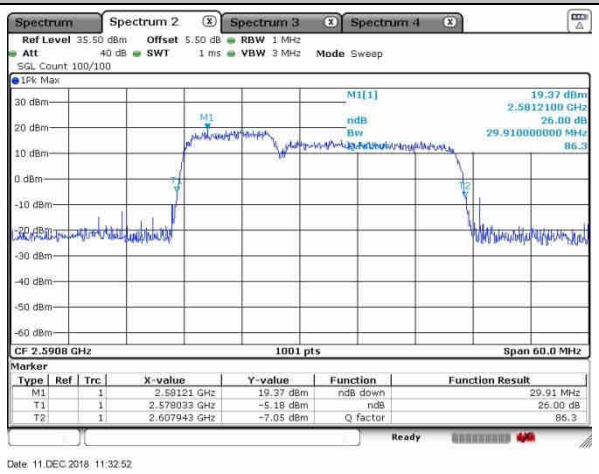
Lowest Channel / 10MHz+20MHz



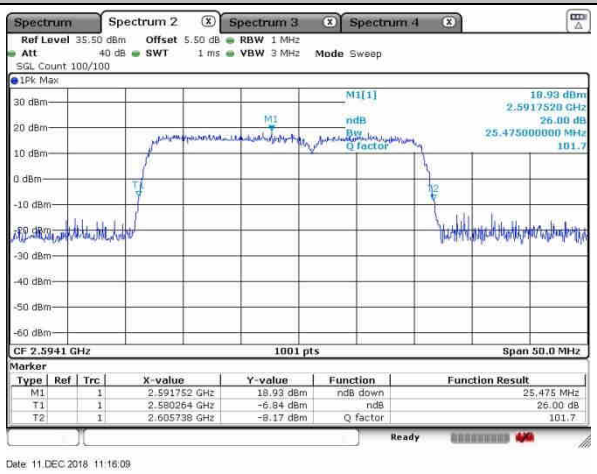
Lowest Channel / 15MHz+10MHz



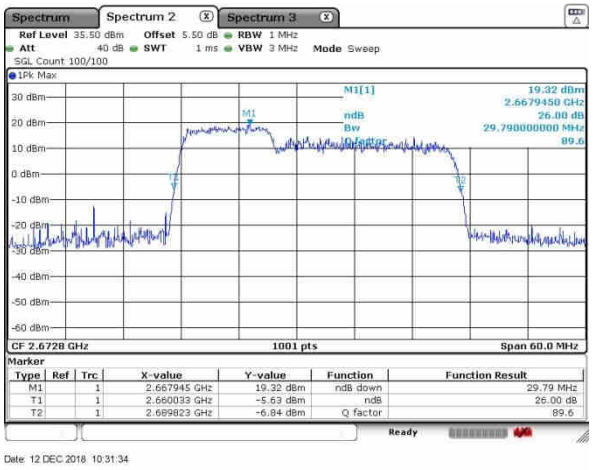
Middle Channel / 10MHz+20MHz



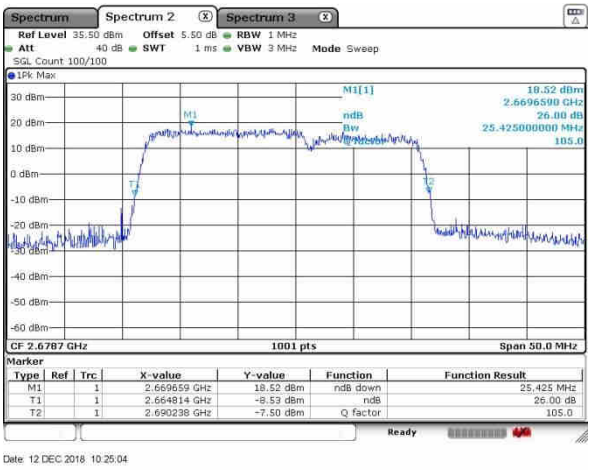
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



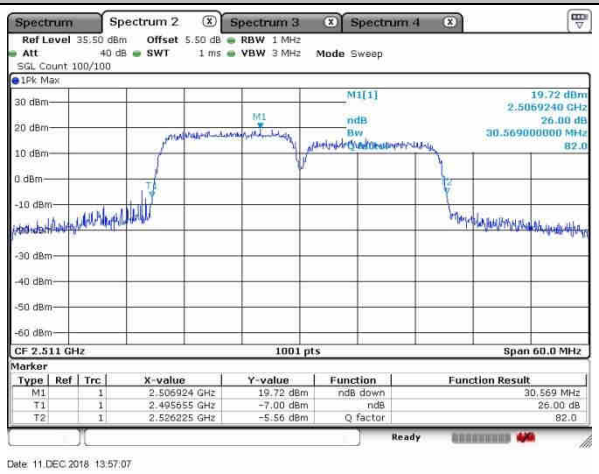
Highest Channel / 15MHz+10MHz



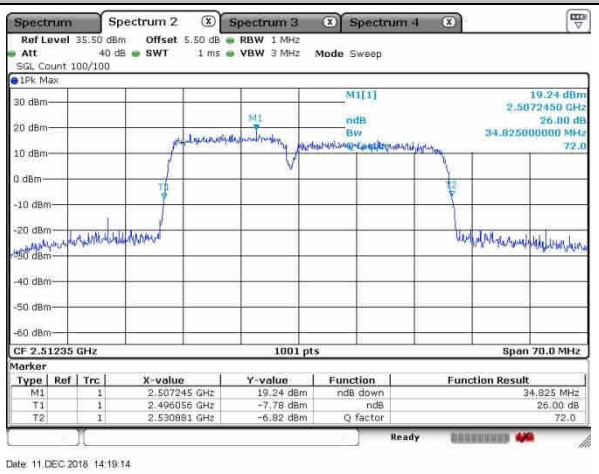
LTE Band 41

QPSK

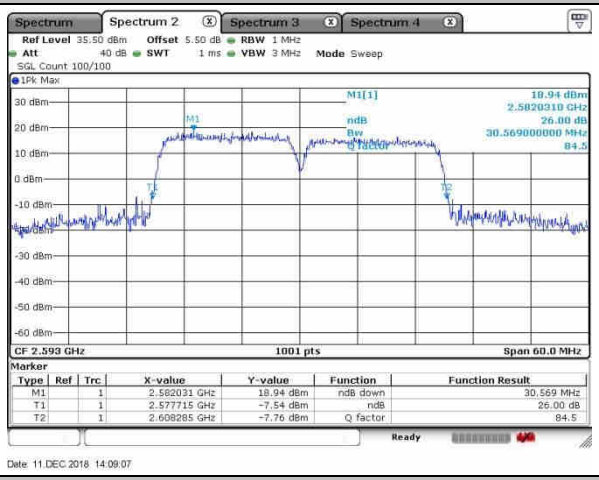
Lowest Channel / 15MHz+15MHz



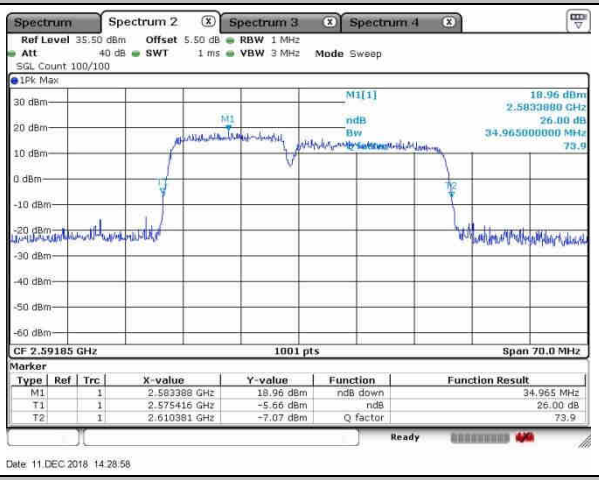
Lowest Channel / 15MHz+20MHz



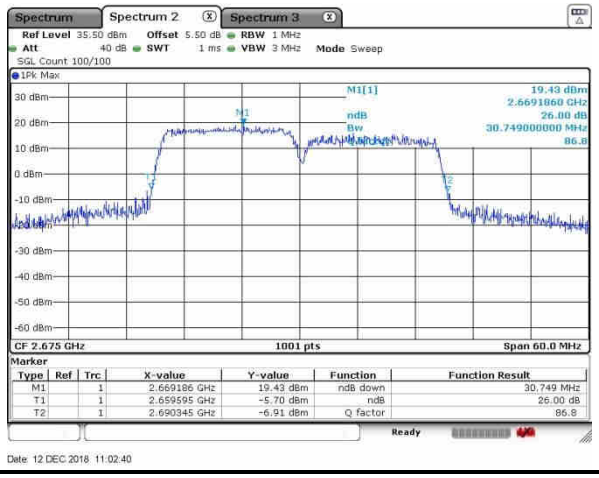
Middle Channel / 15MHz+15MHz



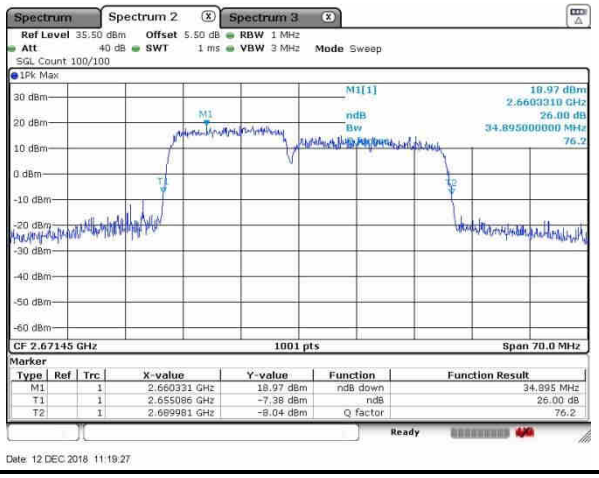
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



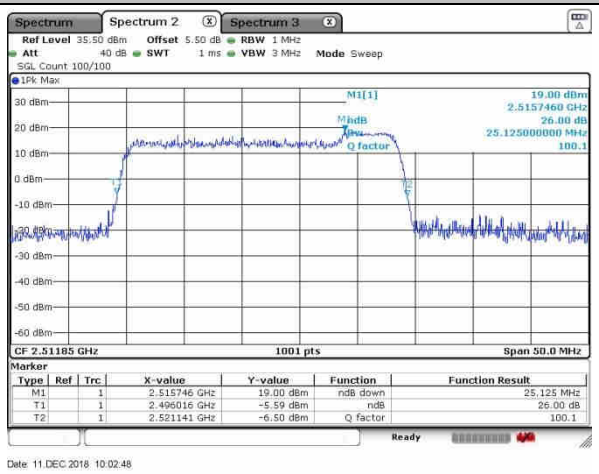
Highest Channel / 15MHz+20MHz



LTE Band 41

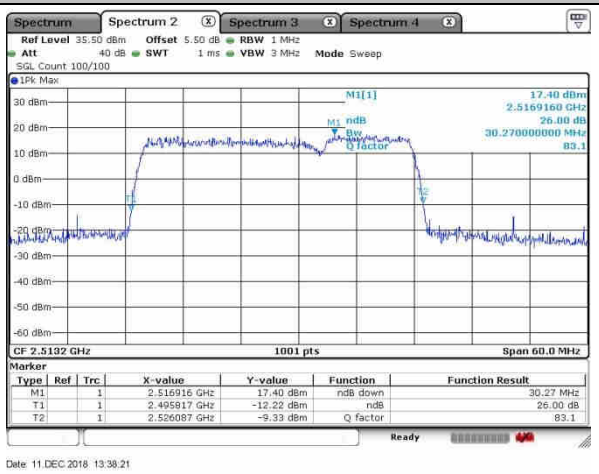
QPSK

Lowest Channel / 20MHz+5MHz



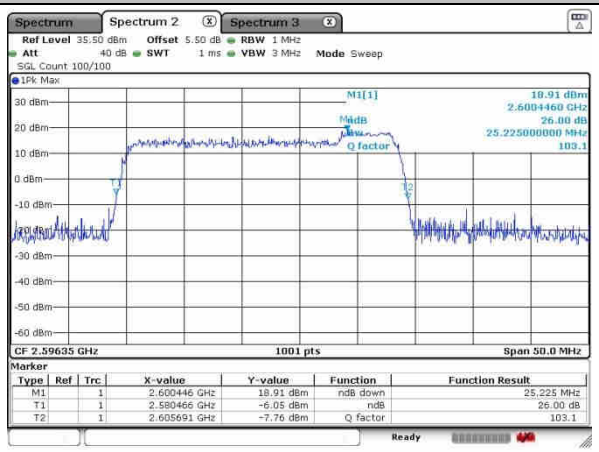
Date: 11.DEC.2018 10:02:48

Lowest Channel / 20MHz+10MHz



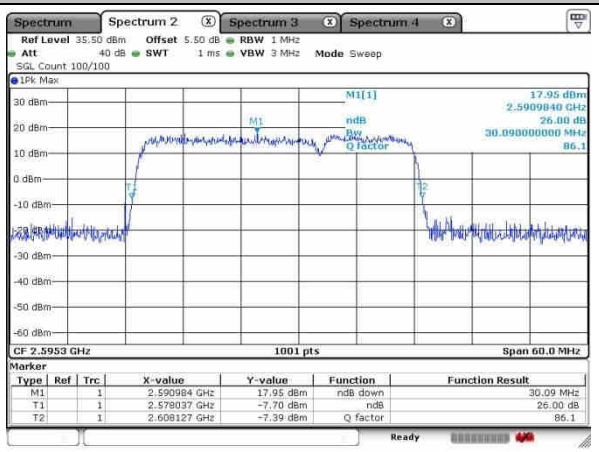
Date: 11.DEC.2018 13:38:21

Middle Channel / 20MHz+5MHz



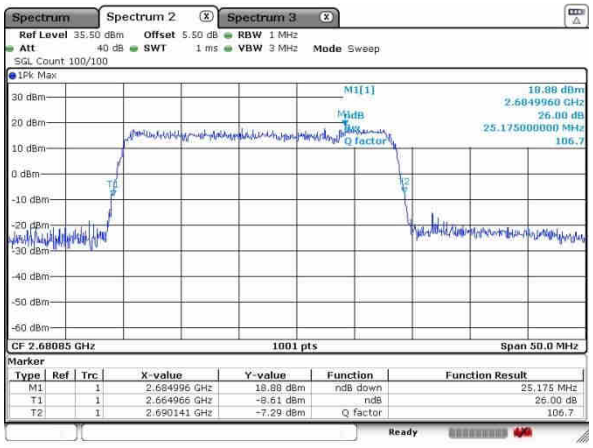
Date: 11.DEC.2018 10:09:03

Middle Channel / 20MHz+10MHz



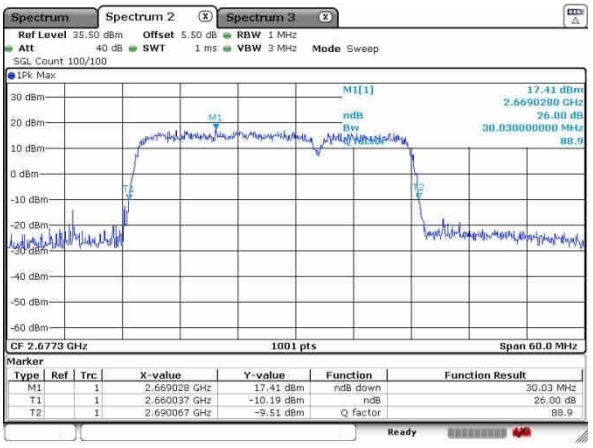
Date: 11.DEC.2018 13:49:52

Highest Channel / 20MHz+5MHz



Date: 12.DEC.2018 10:04:32

Highest Channel / 20MHz+10MHz

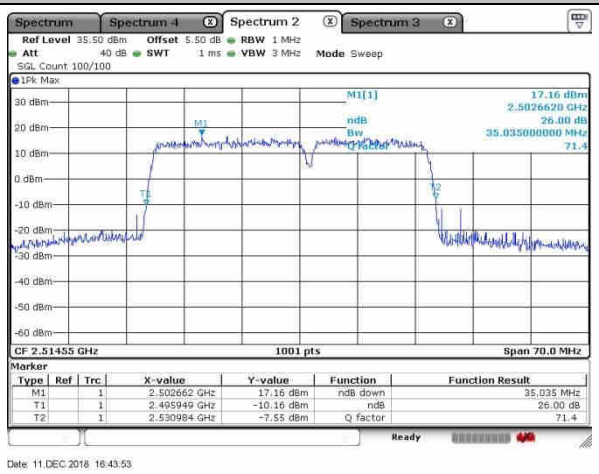


Date: 12.DEC.2018 10:53:20

LTE Band 41

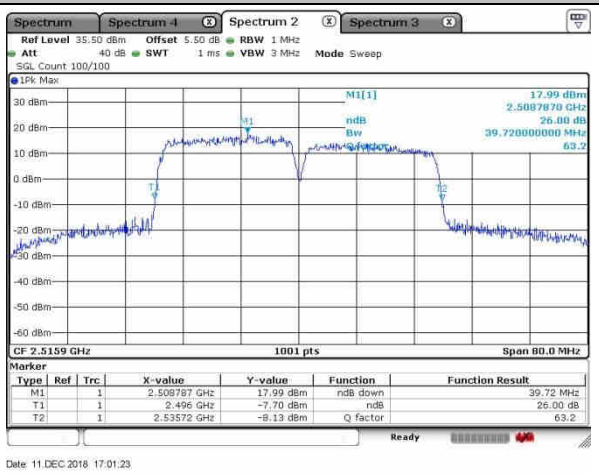
QPSK

Lowest Channel / 20MHz+15MHz



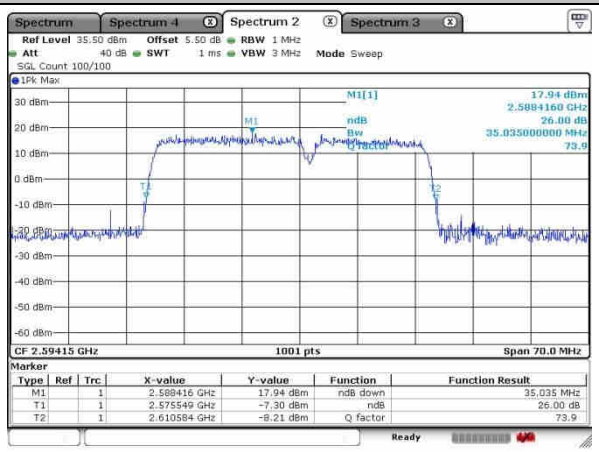
Date: 11.DEC.2018 16:43:53

Lowest Channel / 20MHz+20MHz



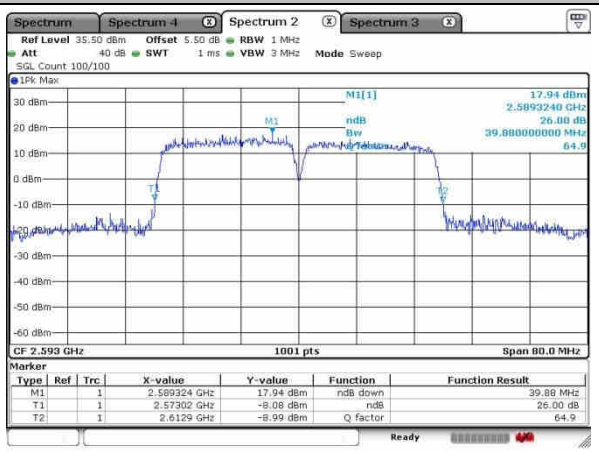
Date: 11.DEC.2018 17:01:23

Middle Channel / 20MHz+15MHz



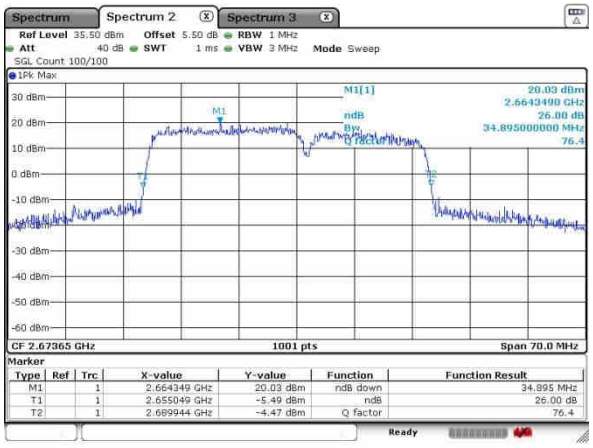
Date: 11.DEC.2018 16:47:05

Middle Channel / 20MHz+20MHz



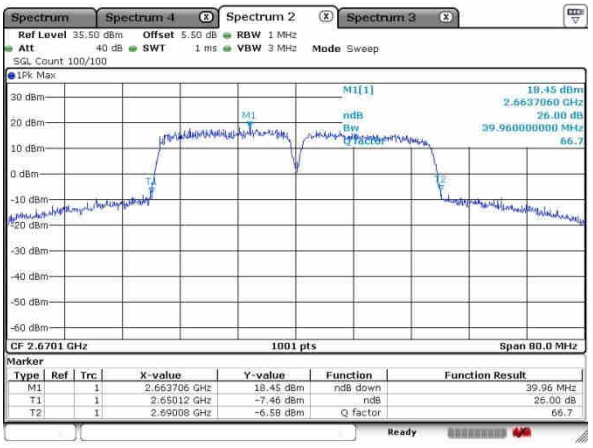
Date: 11.DEC.2018 17:04:35

Highest Channel / 20MHz+15MHz



Date: 12.DEC.2018 11:22:43

Highest Channel / 20MHz+20MHz

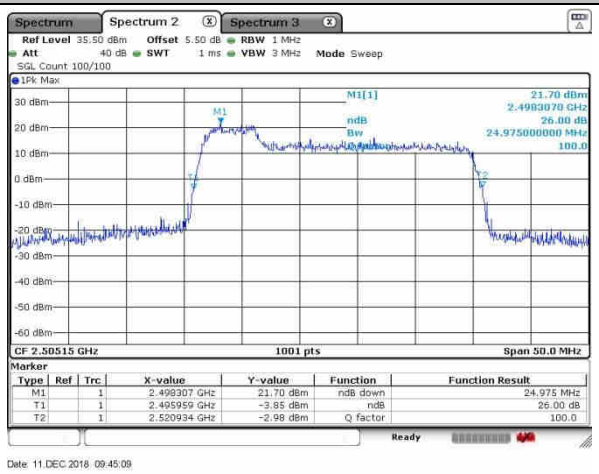


Date: 11.DEC.2018 17:16:24

LTE Band 41

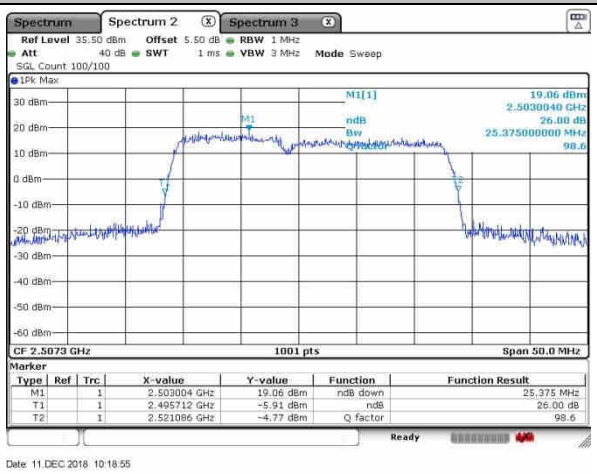
16QAM

Lowest Channel / 5MHz+20MHz



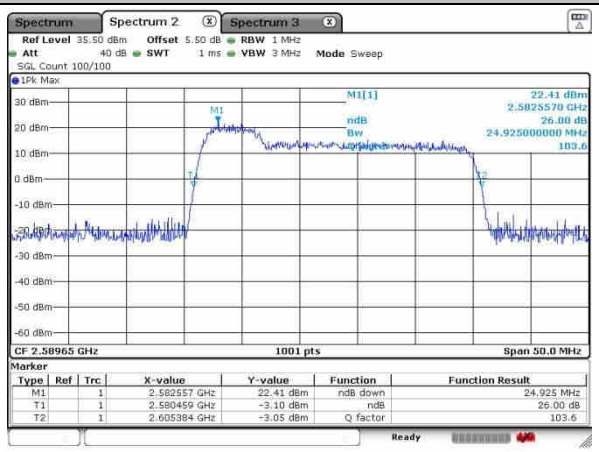
Date: 11.DEC.2018 09:45:09

Lowest Channel / 10MHz+15MHz



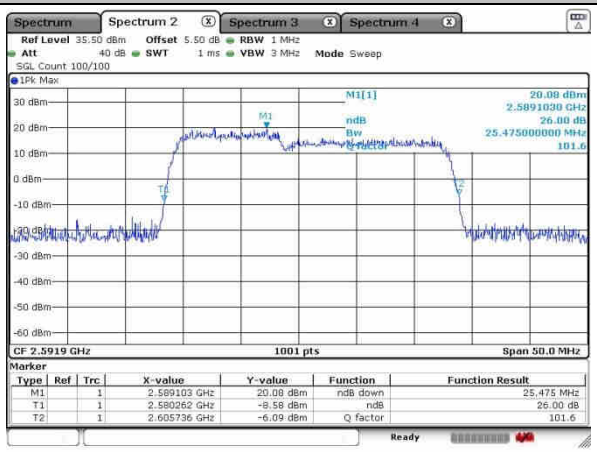
Date: 11.DEC.2018 10:18:55

Middle Channel / 5MHz+20MHz



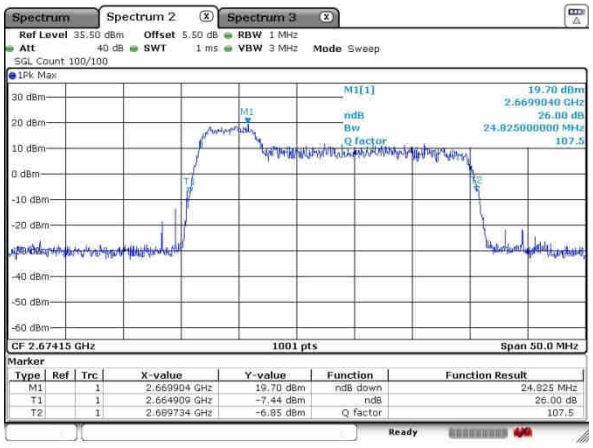
Date: 11.DEC.2018 09:54:35

Middle Channel / 10MHz+15MHz



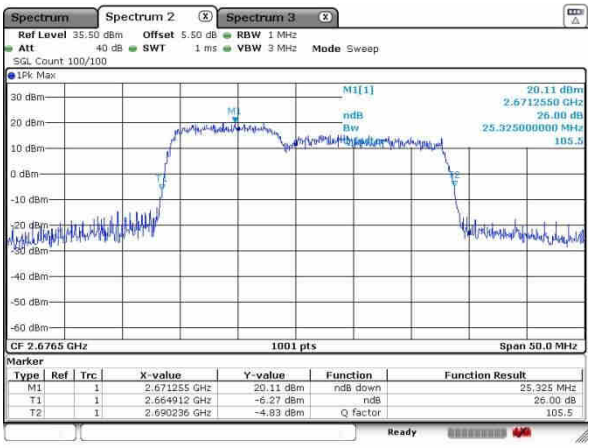
Date: 11.DEC.2018 10:25:56

Highest Channel / 5MHz+20MHz



Date: 12.DEC.2018 09:52:55

Highest Channel / 10MHz+15MHz

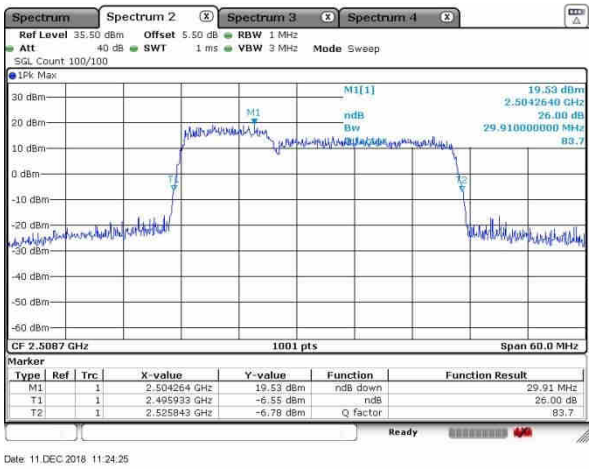


Date: 12.DEC.2018 10:09:19

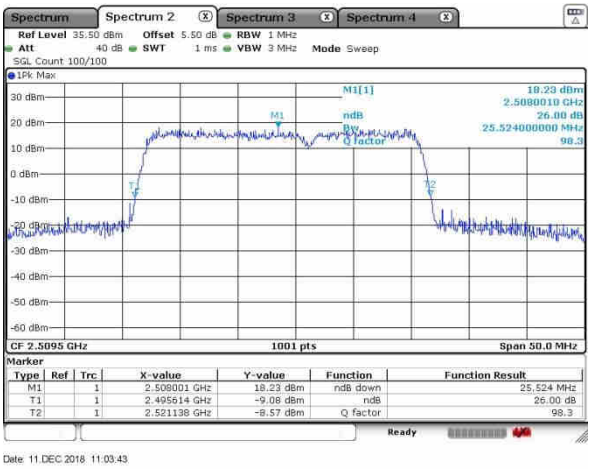
LTE Band 41

16QAM

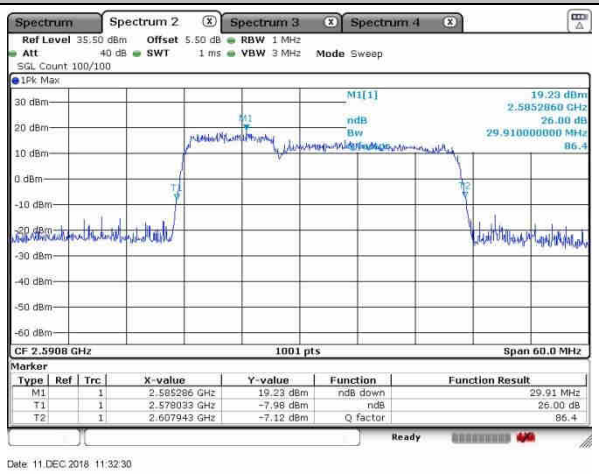
Lowest Channel / 10MHz+20MHz



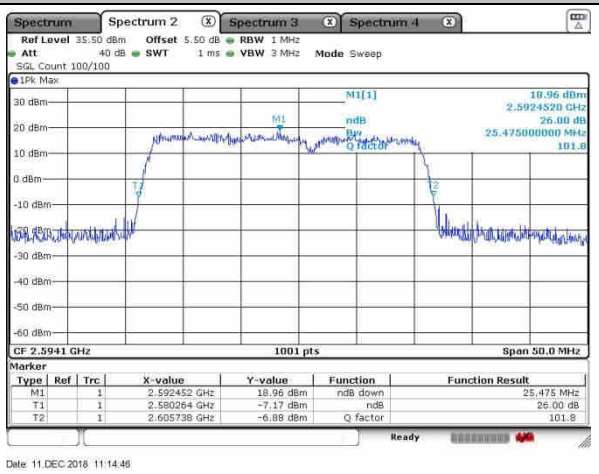
Lowest Channel / 15MHz+10MHz



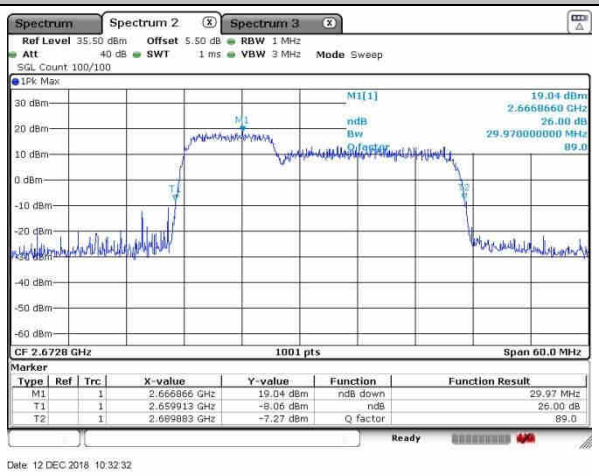
Middle Channel / 10MHz+20MHz



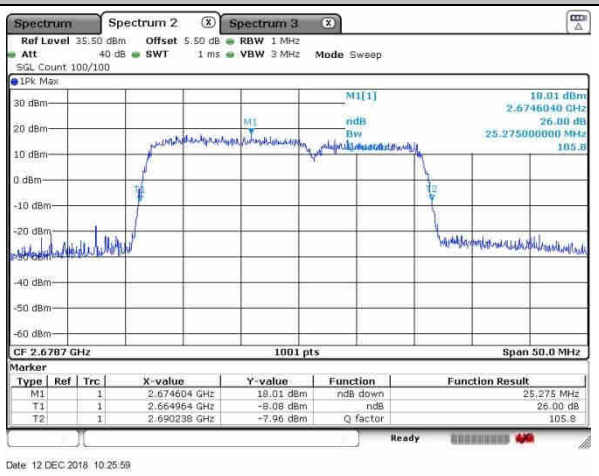
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



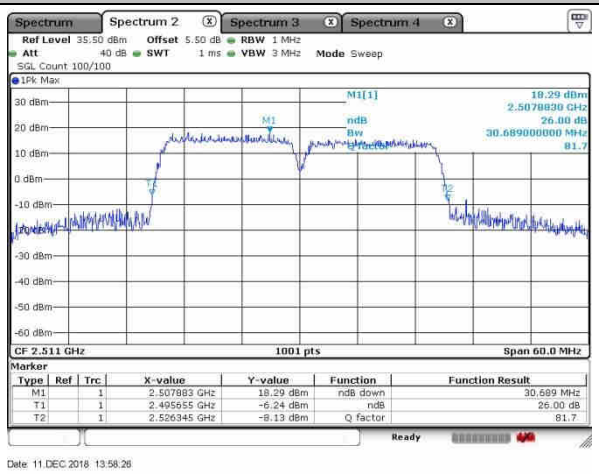
Highest Channel / 15MHz+10MHz



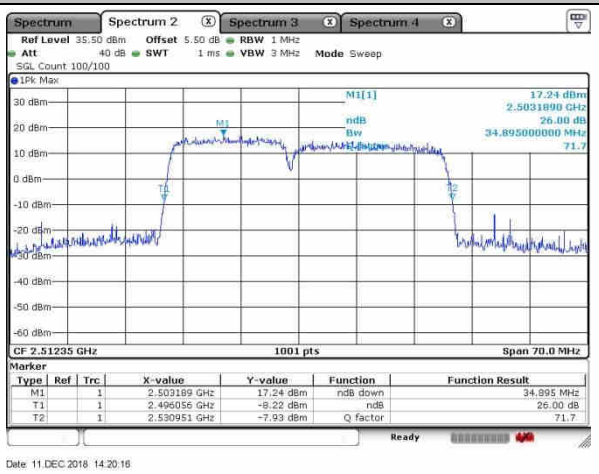
LTE Band 41

16QAM

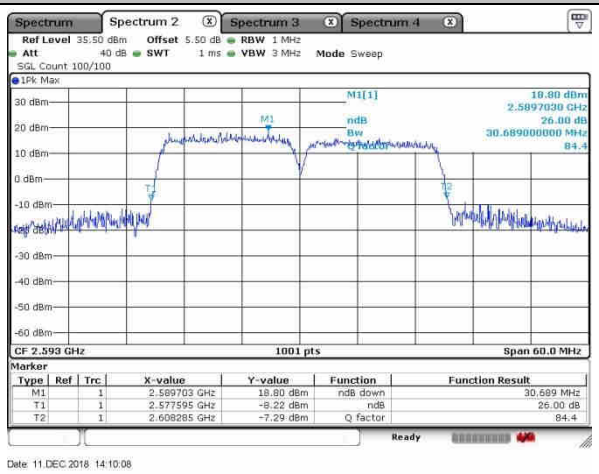
Lowest Channel / 15MHz+15MHz



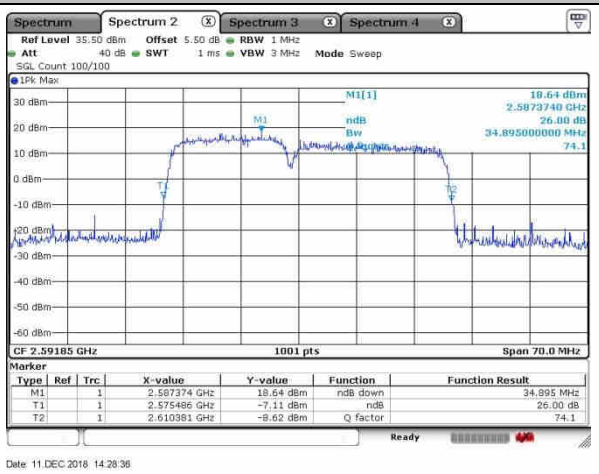
Lowest Channel / 15MHz+20MHz



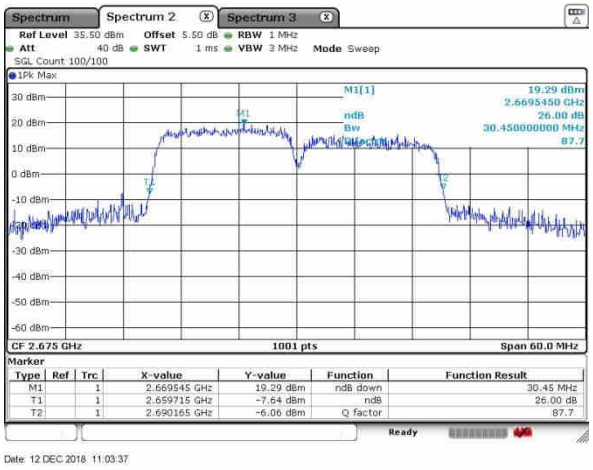
Middle Channel / 15MHz+15MHz



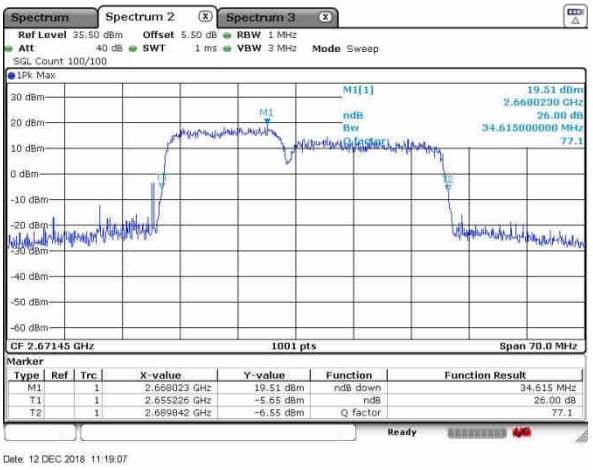
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



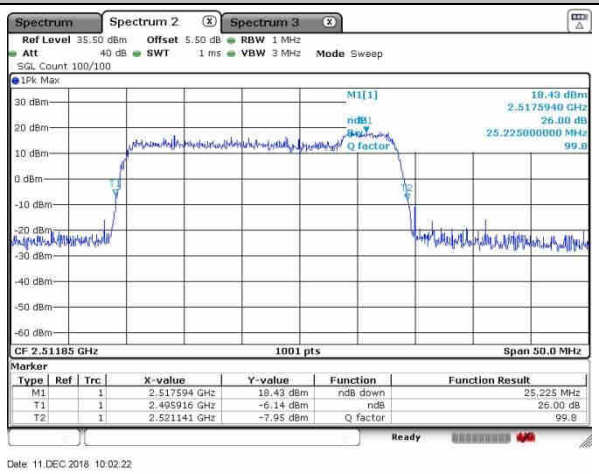
Highest Channel / 15MHz+20MHz



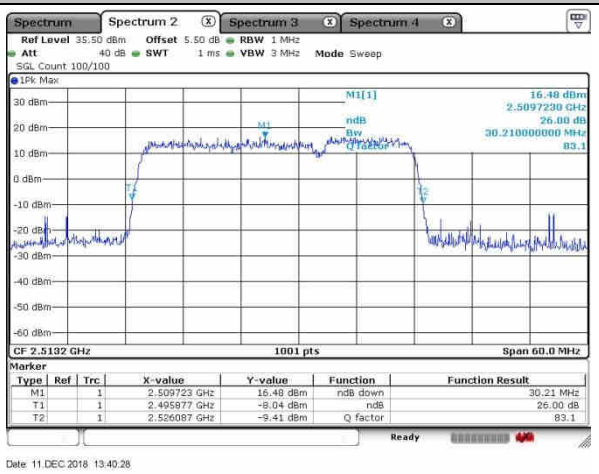
LTE Band 41

16QAM

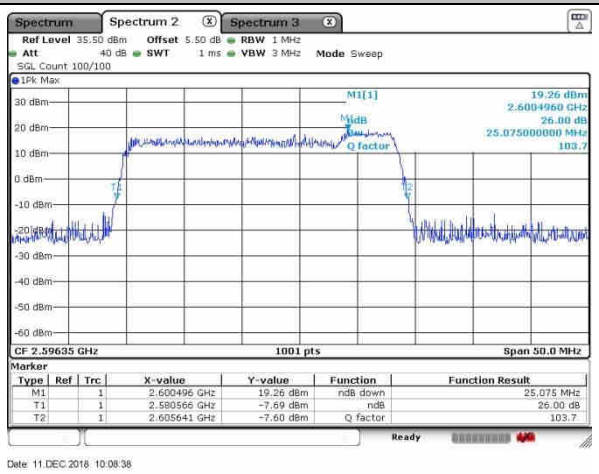
Lowest Channel / 20MHz+5MHz



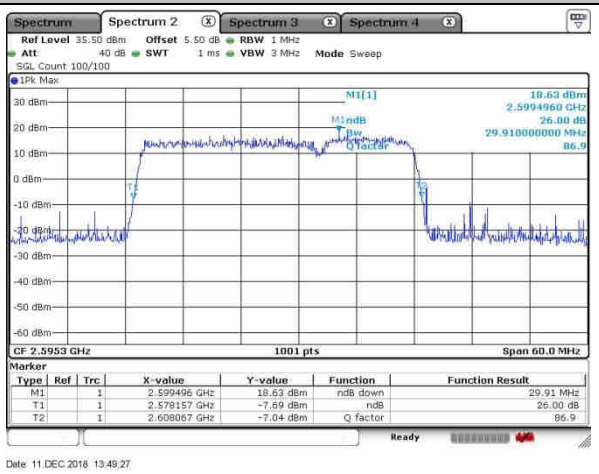
Lowest Channel / 20MHz+10MHz



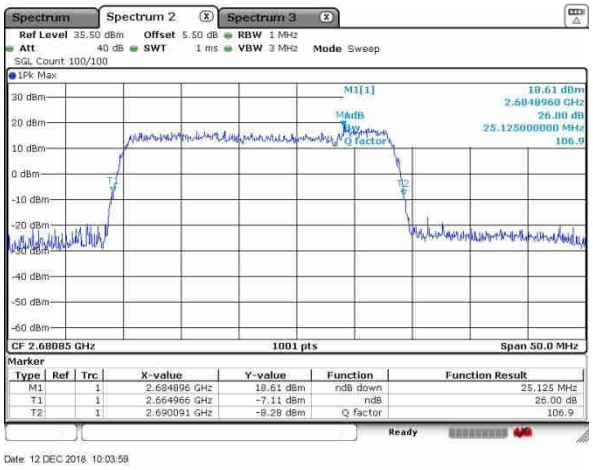
Middle Channel / 20MHz+5MHz



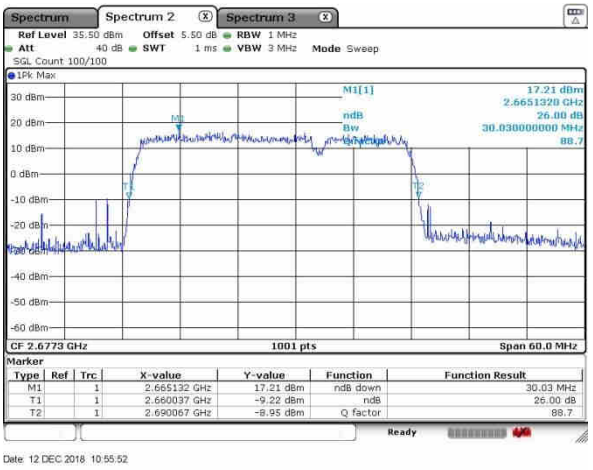
Middle Channel / 20MHz+10MHz



Highest Channel / 20MHz+5MHz



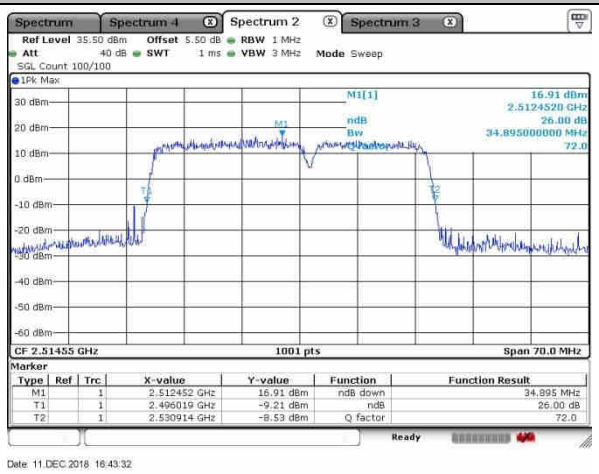
Highest Channel / 20MHz+10MHz



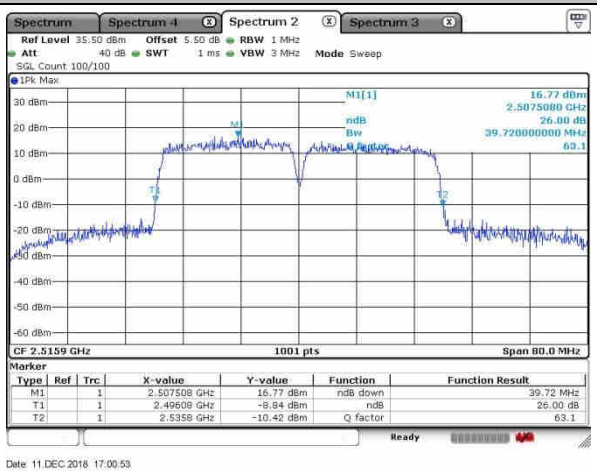
LTE Band 41

16QAM

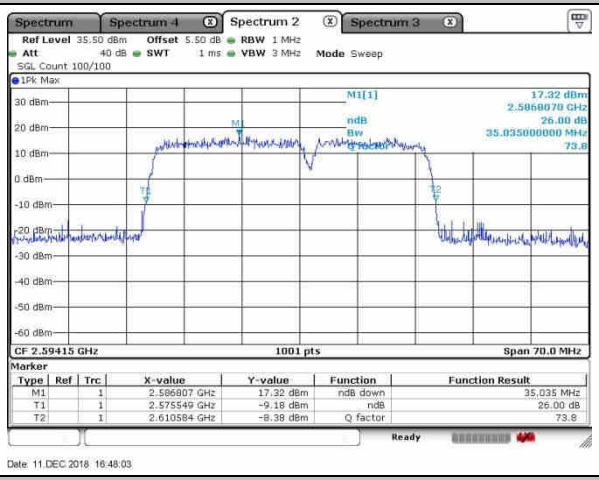
Lowest Channel / 20MHz+15MHz



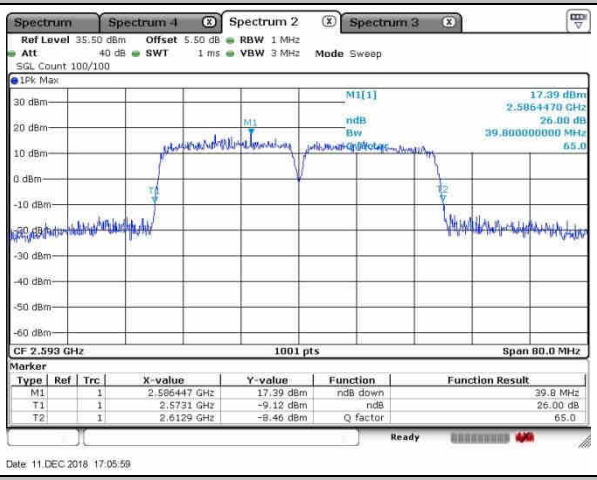
Lowest Channel / 20MHz+20MHz



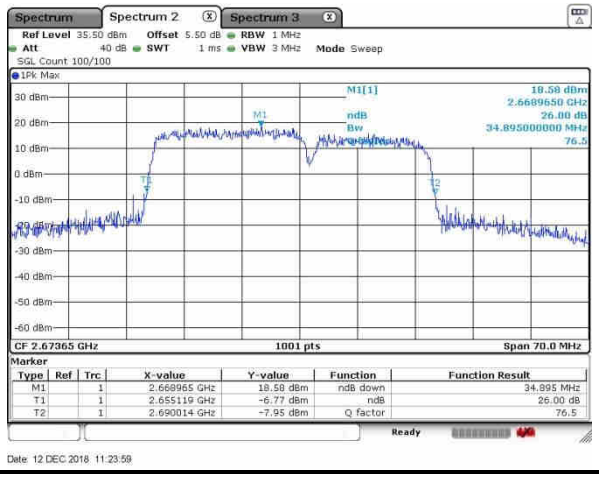
Middle Channel / 20MHz+15MHz



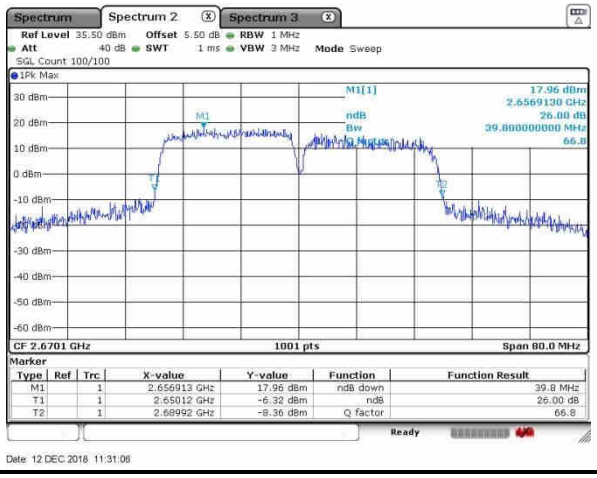
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



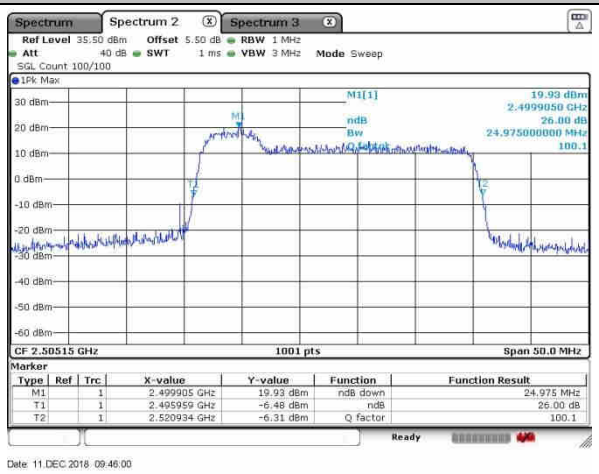
Highest Channel / 20MHz+20MHz



LTE Band 41

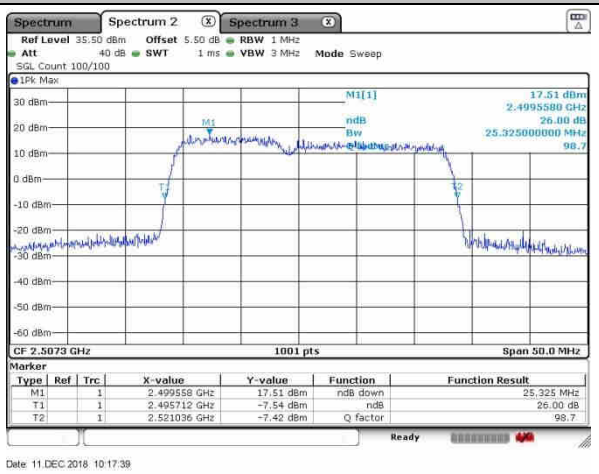
64QAM

Lowest Channel / 5MHz+20MHz



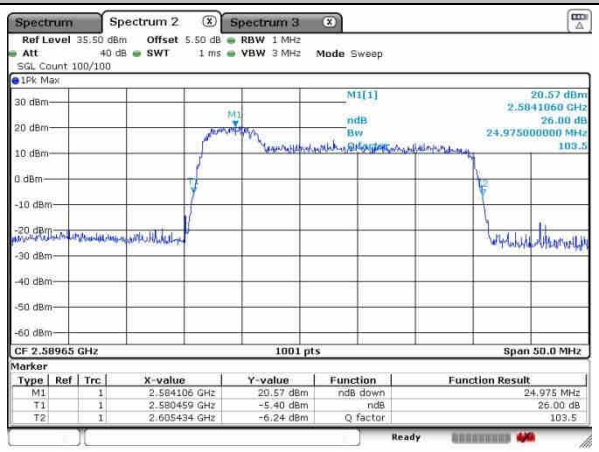
Date: 11.DEC.2018 09:46:00

Lowest Channel / 10MHz+15MHz



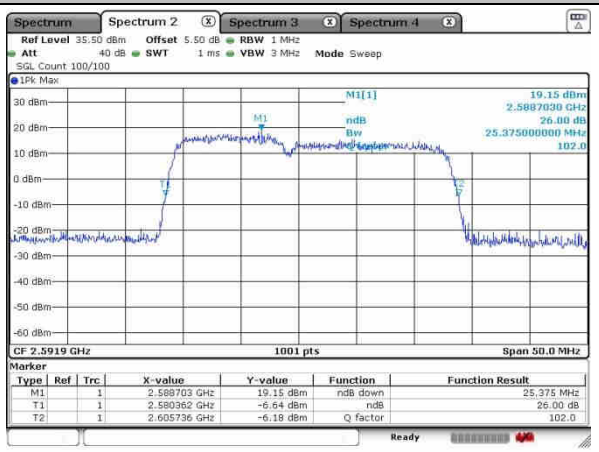
Date: 11.DEC.2018 10:17:39

Middle Channel / 5MHz+20MHz



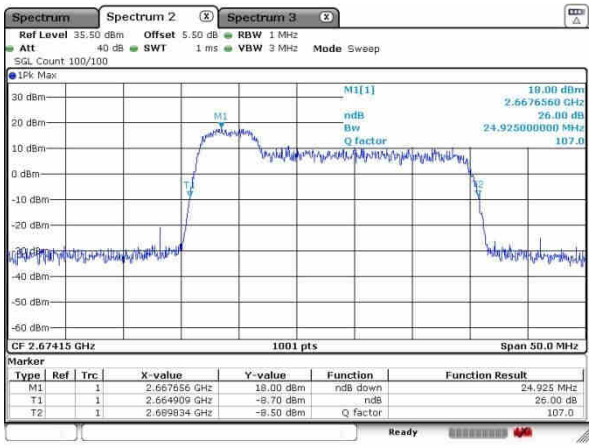
Date: 11.DEC.2018 09:53:24

Middle Channel / 10MHz+15MHz



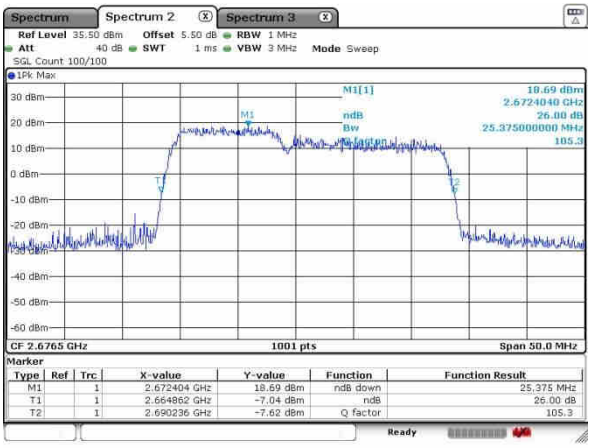
Date: 11.DEC.2018 10:26:22

Highest Channel / 5MHz+20MHz



Date: 12.DEC.2018 09:53:26

Highest Channel / 10MHz+15MHz

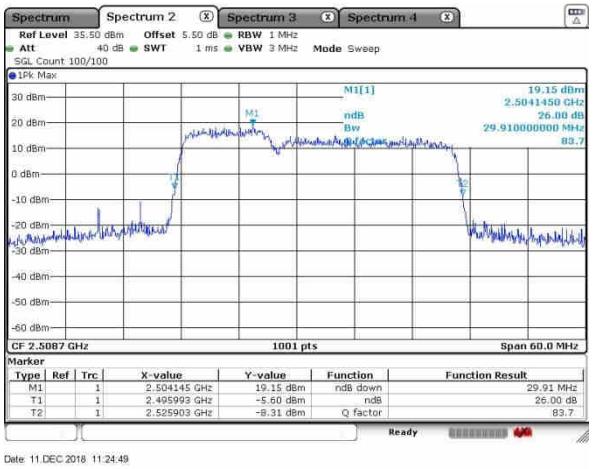


Date: 12.DEC.2018 10:09:47

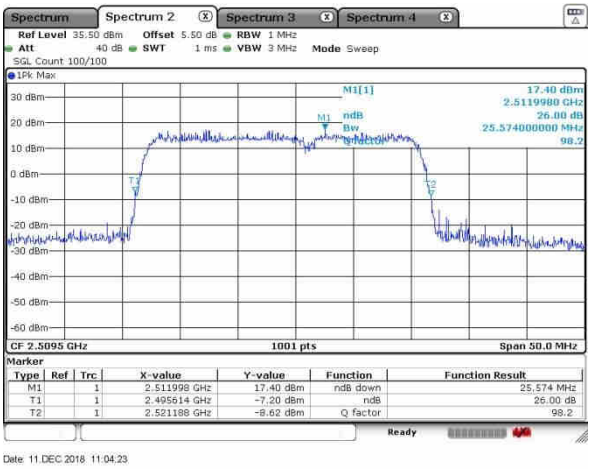
LTE Band 41

64QAM

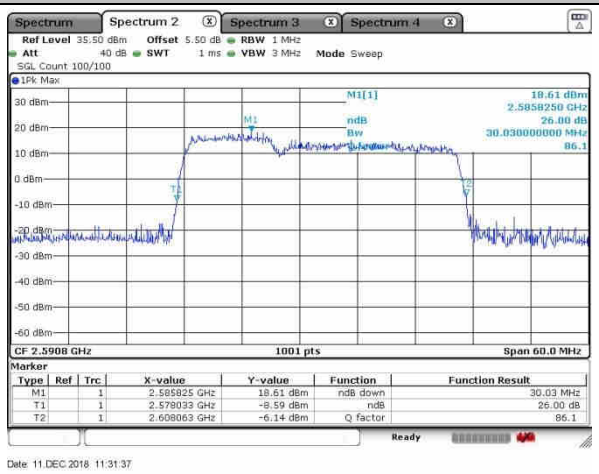
Lowest Channel / 10MHz+20MHz



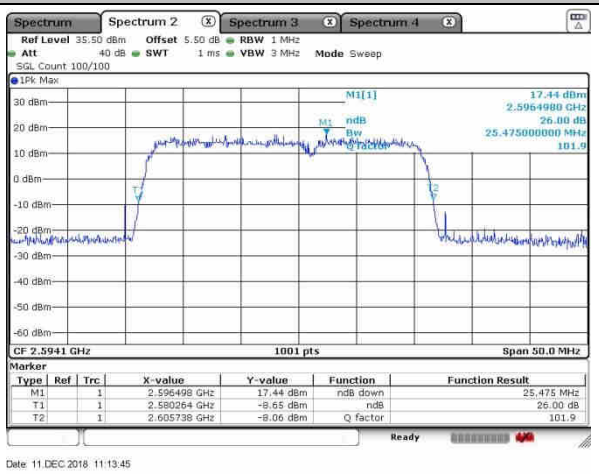
Lowest Channel / 15MHz+10MHz



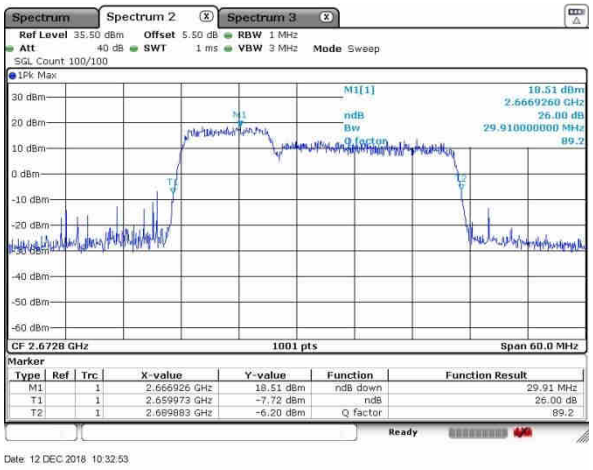
Middle Channel / 10MHz+20MHz



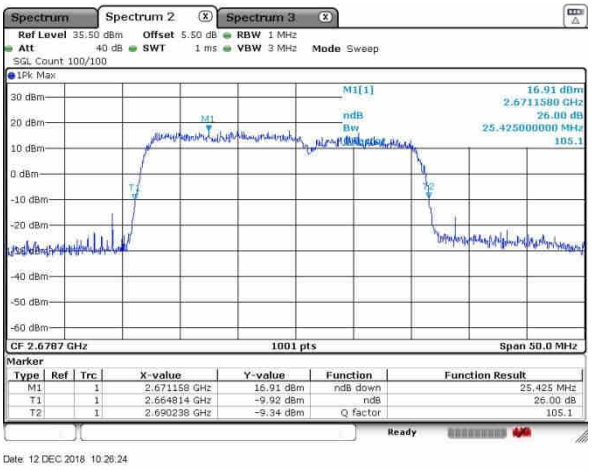
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



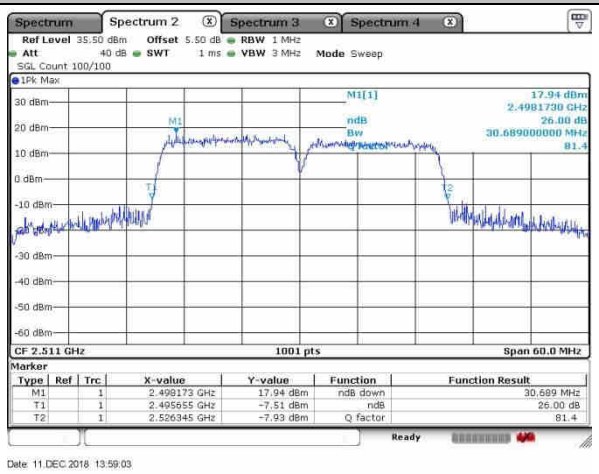
Highest Channel / 15MHz+10MHz



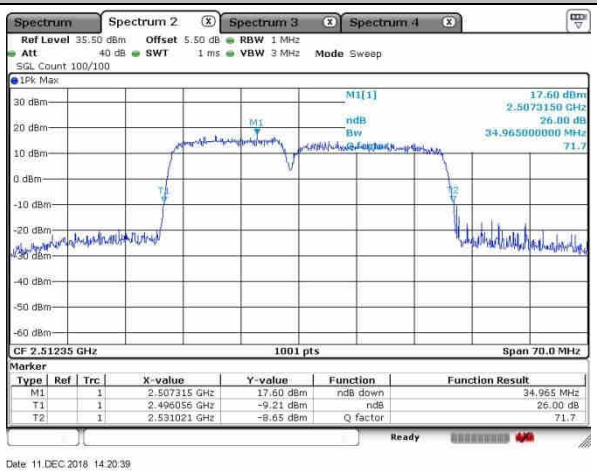
LTE Band 41

64QAM

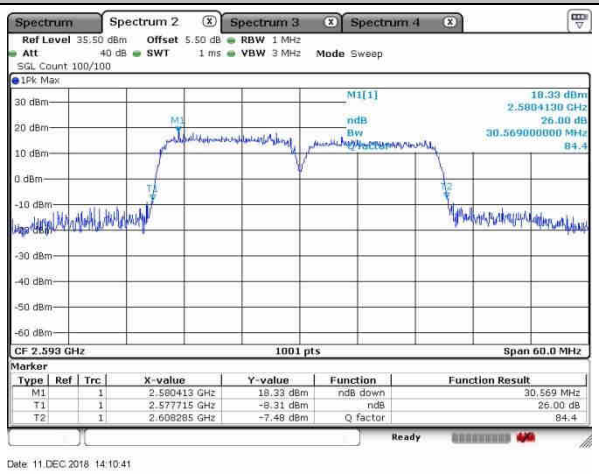
Lowest Channel / 15MHz+15MHz



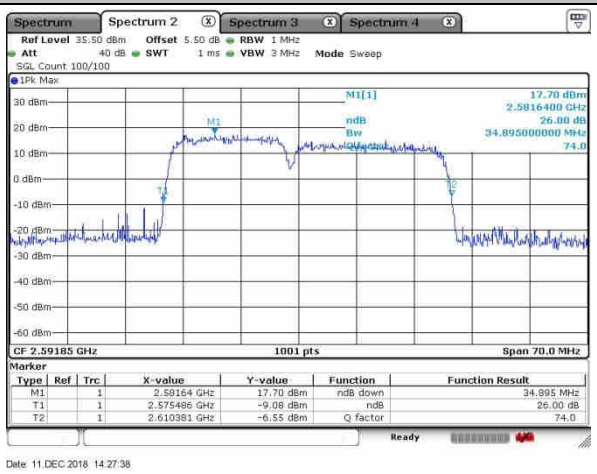
Lowest Channel / 15MHz+20MHz



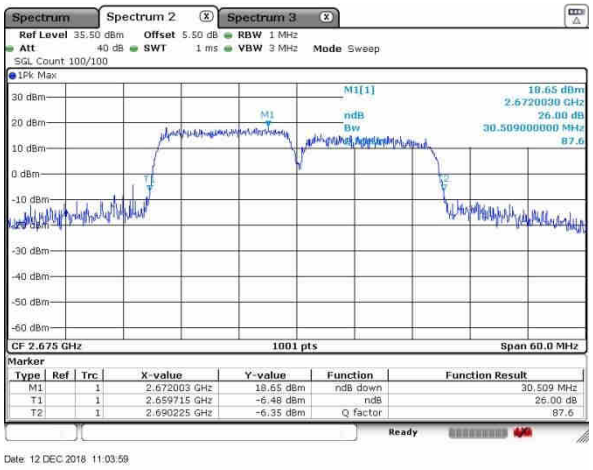
Middle Channel / 15MHz+15MHz



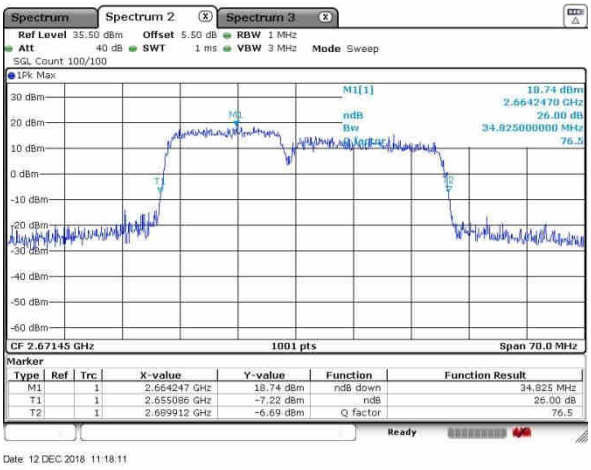
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



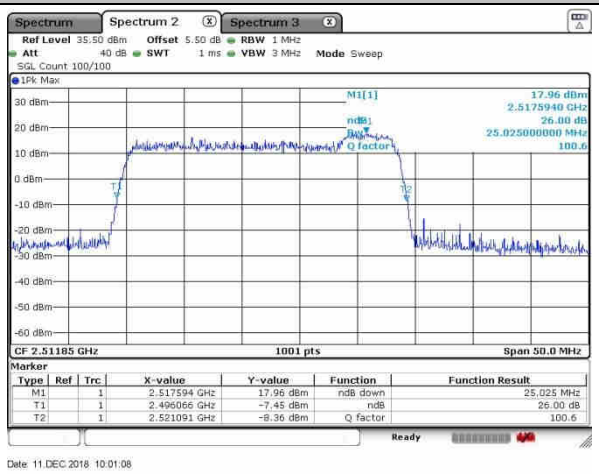
Highest Channel / 15MHz+20MHz



LTE Band 41

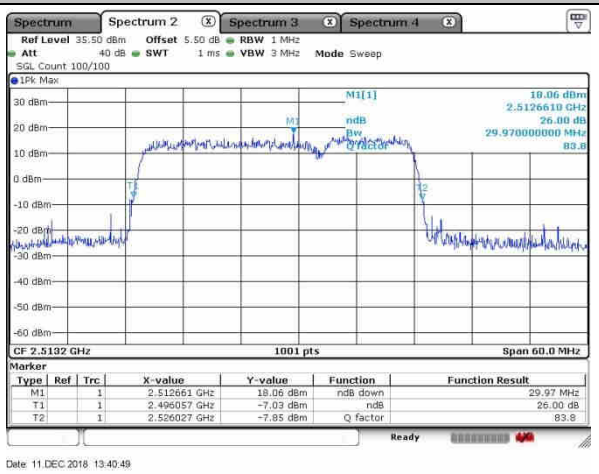
64QAM

Lowest Channel / 20MHz+5MHz



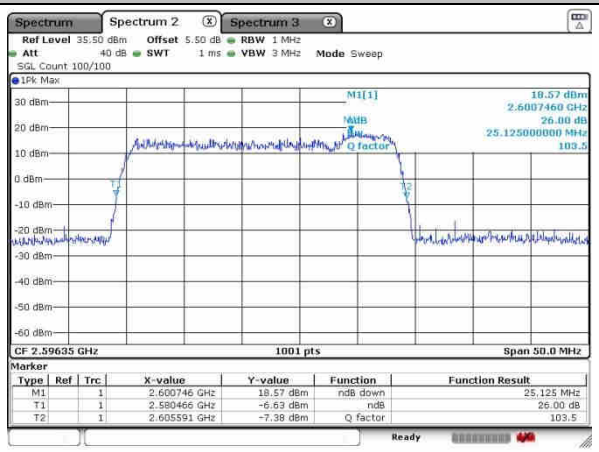
Date: 11.DEC.2018 10:01:08

Lowest Channel / 20MHz+10MHz



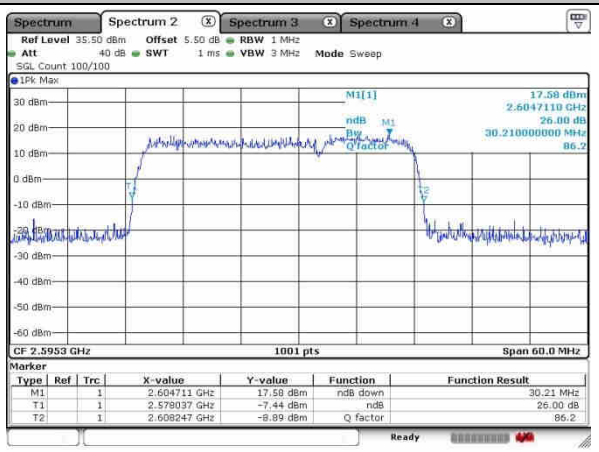
Date: 11.DEC.2018 13:40:49

Middle Channel / 20MHz+5MHz



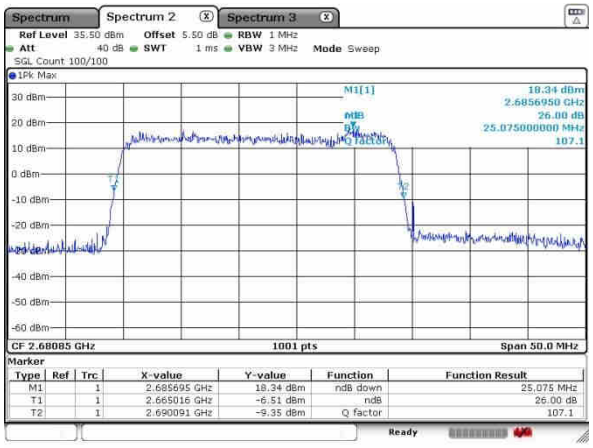
Date: 11.DEC.2018 10:07:41

Middle Channel / 20MHz+10MHz



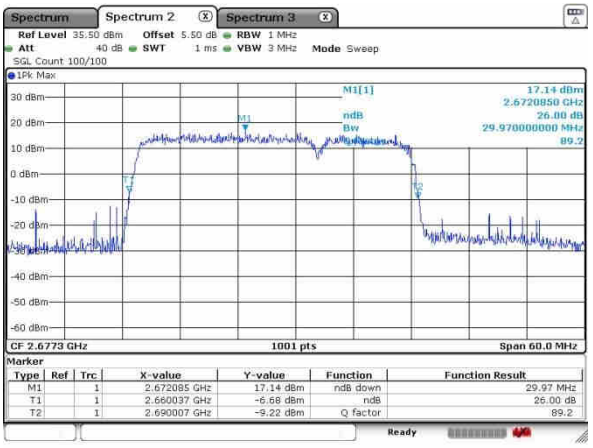
Date: 11.DEC.2018 13:48:29

Highest Channel / 20MHz+5MHz



Date: 12.DEC.2018 10:03:01

Highest Channel / 20MHz+10MHz

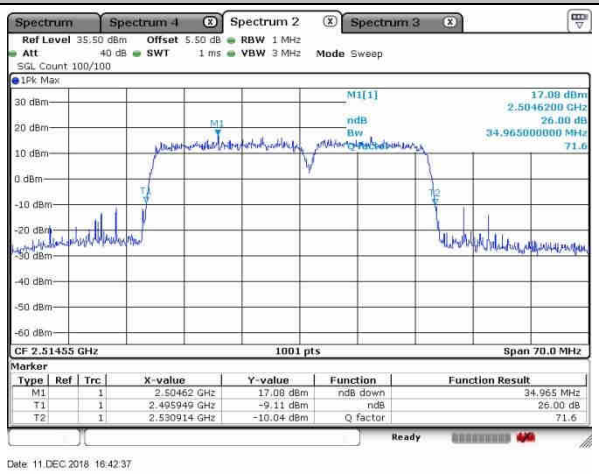


Date: 12.DEC.2018 10:56:12

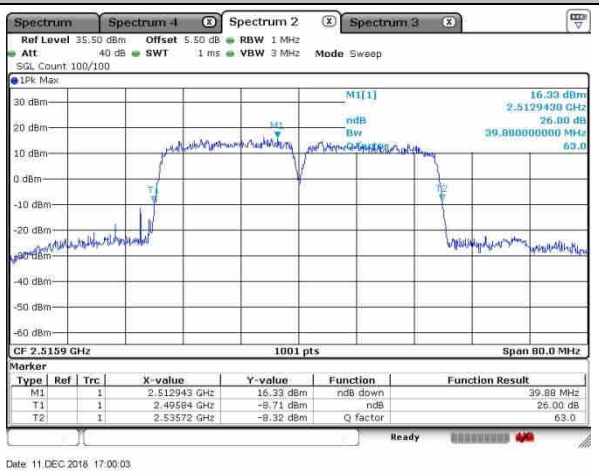
LTE Band 41

64QAM

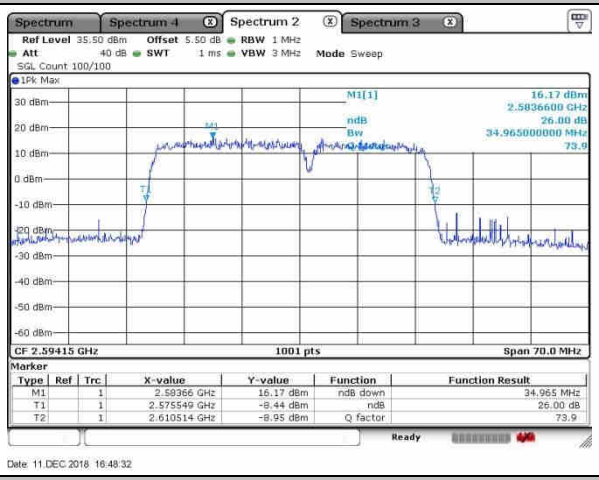
Lowest Channel / 20MHz+15MHz



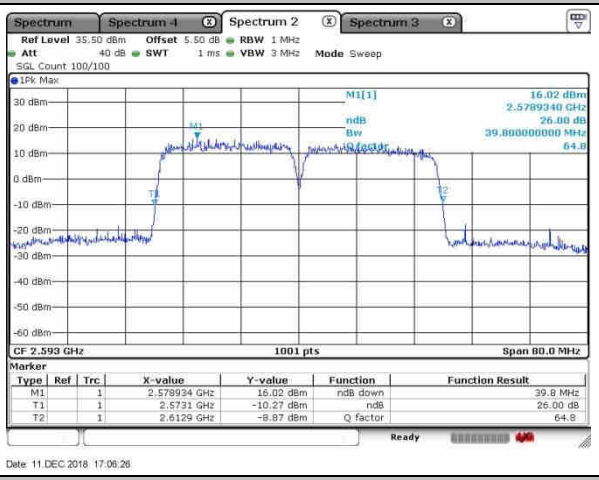
Lowest Channel / 20MHz+20MHz



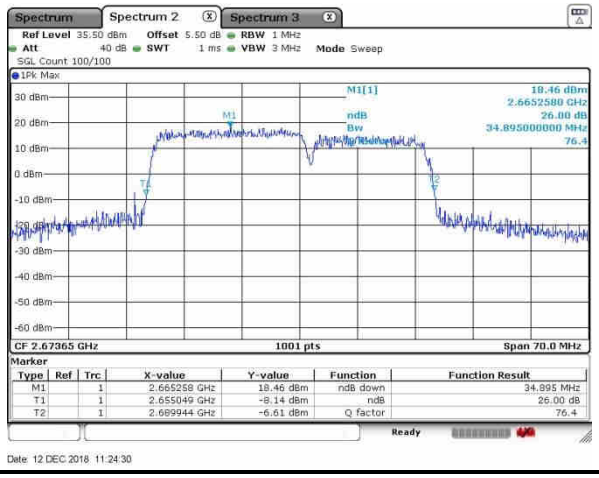
Middle Channel / 20MHz+15MHz



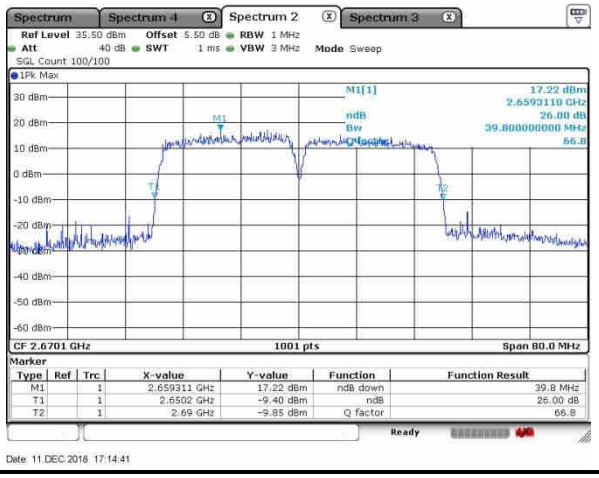
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz



Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.49	4.5	9.01	9.01	13.43	13.46	18.22	18.34
Middle CH	4.49	4.5	9.05	9.03	13.43	13.43	18.46	18.42
Highest CH	4.5	4.5	9.05	8.991	13.4	13.49	18.54	18.34

Mode	LTE Band 7 : 99%OBW(MHz)			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.49	8.99	13.49	18.38
Middle CH	4.49	9.07	13.46	18.22
Highest CH	4.47	9.03	13.43	18.46

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.08	1.09	2.7	2.73	4.5	4.49	9.05	9.03	1.1	2.73	4.5	9.03
Middle CH	1.09	1.1	2.74	2.72	4.5	4.48	9.05	9.01	1.09	2.72	4.49	8.95
Highest CH	1.09	1.1	2.69	2.73	4.48	4.5	9.07	8.97	1.09	2.7	4.47	9.03

Mode	LTE Band 13 : 99%OBW(MHz)									
BW	1.4MHz		3MHz		5MHz		10MHz		5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM
Lowest CH	-	-	-	-	4.49	4.46	-	-	4.49	-
Middle CH	-	-	-	-	4.5	4.52	9.03	8.93	4.5	8.99
Highest CH	-	-	-	-	4.49	4.49	-	-	4.5	-

Mode	LTE Band 25 : 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	1.1	1.09	2.72	2.73	4.5	4.5	9.09	8.99	13.46	13.46	18.5	18.22
Middle CH	1.1	1.1	2.73	2.72	4.49	4.46	9.07	8.97	13.43	13.49	18.46	18.38
Highest CH	1.09	1.09	2.72	2.71	4.52	4.5	9.01	9.01	13.49	13.46	18.26	18.26
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.5		9.03		13.46		18.38	
Middle CH	1.09		2.72		4.51		9.05		13.43		18.34	
Highest CH	1.09		2.73		4.5		9.05		13.43		18.34	

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.1	2.73	2.71	4.49	4.49	9.03	9.03	13.49	13.52	13.4	13.34
Middle CH	1.09	1.09	2.73	2.7	4.49	4.5	9.15	8.99	13.46	13.43	-	-
Highest CH	1.09	1.1	2.7	2.75	4.48	4.49	8.95	8.99	13.34	13.4	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.51		9.05		13.46		13.4	
Middle CH	1.09		2.7		4.49		8.97		13.43		-	
Highest CH	1.09		2.73		4.52		9.03		13.4		-	

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	-	-	-	-	4.49	4.52	8.99	9.01	13.46	13.46	18.38	18.18
Middle CH	-	-	-	-	4.46	4.50	9.01	9.01	13.52	13.46	18.42	18.42
Highest CH	-	-	-	-	4.49	4.51	9.05	8.97	13.43	13.43	18.46	18.50
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.47		9.11		13.40		18.34	
Middle CH	-		-		4.48		9.03		13.43		18.26	
Highest CH	-		-		4.53		8.97		13.34		18.58	

Mode	LTE Band 66 : 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	1.1	1.1	2.7	2.72	4.5	4.52	9.07	9.05	13.46	13.46	18.38	18.42
Middle CH	1.09	1.09	2.72	2.71	4.48	4.5	9.05	9.01	13.37	13.46	18.42	18.54
Highest CH	1.09	1.09	2.72	2.72	4.48	4.49	9.09	9.07	13.4	13.4	18.38	18.22
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.1		2.73		4.49		9.07		13.4		18.42	
Middle CH	1.1		2.73		4.5		9.07		13.43		18.38	
Highest CH	1.1		2.73		4.5		9.05		13.43		18.34	

Mode	LTE Band 71 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.51	4.51	9.05	9.03	13.49	13.49	18.3	18.42
Middle CH	4.48	4.49	9.07	9.01	13.43	13.46	18.34	18.3
Highest CH	4.5	4.48	9.03	8.97	13.4	13.37	18.3	18.3
Mode	LTE Band 7 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.53		9.01		13.43		18.34	
Middle CH	4.49		9.05		13.46		18.42	
Highest CH	4.49		9.05		13.46		18.3	

For CA :

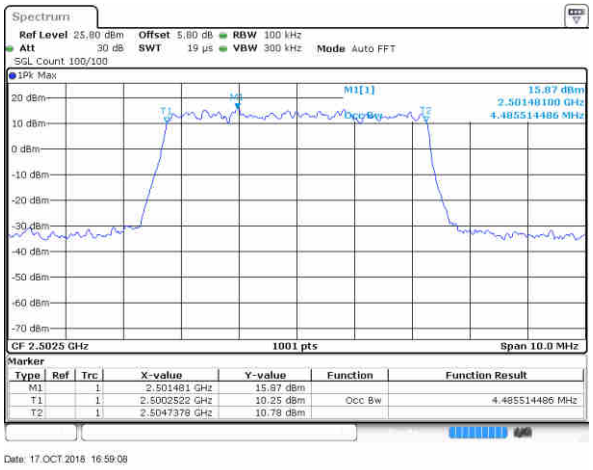
Mode	LTE Band 41 : 99%OBW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.43	23.53	27.99	23.58	28.71
Middle CH	23.33	23.58	27.99	23.53	28.65
Highest CH	23.38	23.48	27.87	23.53	28.47
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.80	23.43	28.05	32.87	37.48
Middle CH	32.73	23.48	28.11	32.87	37.40
Highest CH	32.59	23.33	27.99	32.73	37.56

Mode	LTE Band 41 : 99%OBW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.33	23.53	28.05	23.53	28.65
Middle CH	23.33	23.43	27.99	23.48	28.65
Highest CH	23.13	23.28	27.87	23.33	28.35
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	23.38	28.11	32.73	37.48
Middle CH	32.73	23.38	27.99	32.80	37.48
Highest CH	32.66	23.23	27.87	32.59	37.56

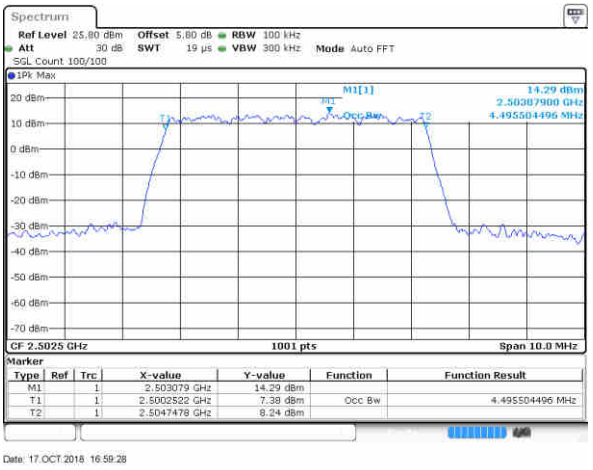
Mode	LTE Band 41 : 99%OBW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.28	23.48	27.99	23.48	28.59
Middle CH	23.23	23.43	27.99	23.48	28.53
Highest CH	23.18	23.33	27.93	23.43	28.41
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	23.33	28.05	32.73	37.56
Middle CH	32.66	23.28	27.99	32.73	37.48
Highest CH	32.59	23.28	27.93	32.59	37.40

LTE Band 7

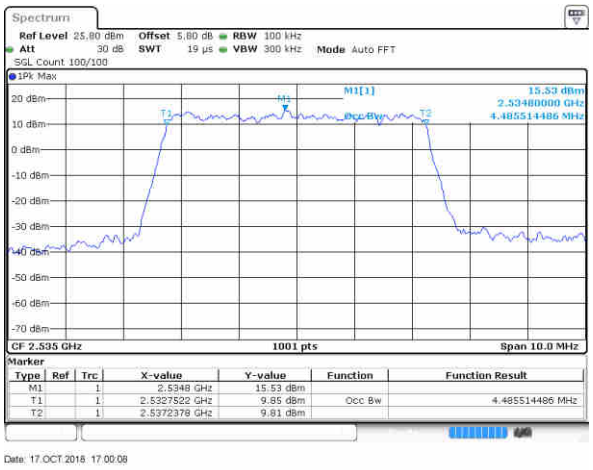
Lowest Channel / 5MHz / QPSK



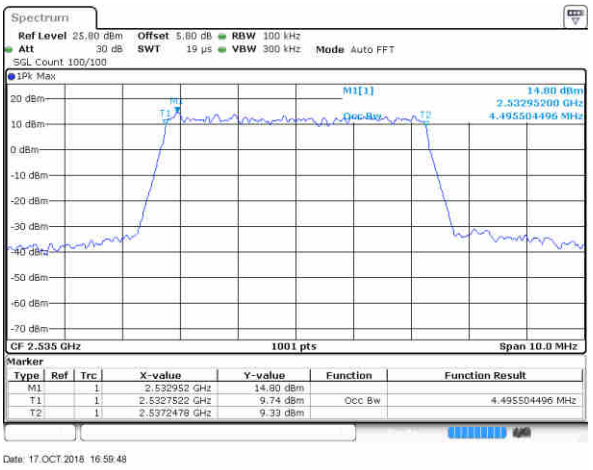
Lowest Channel / 5MHz / 16QAM



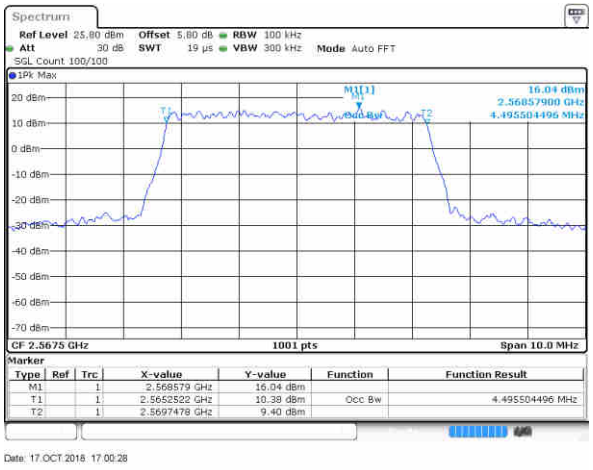
Middle Channel / 5MHz / QPSK



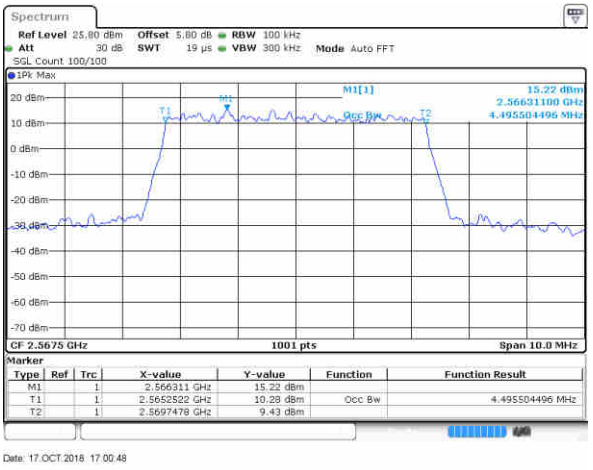
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

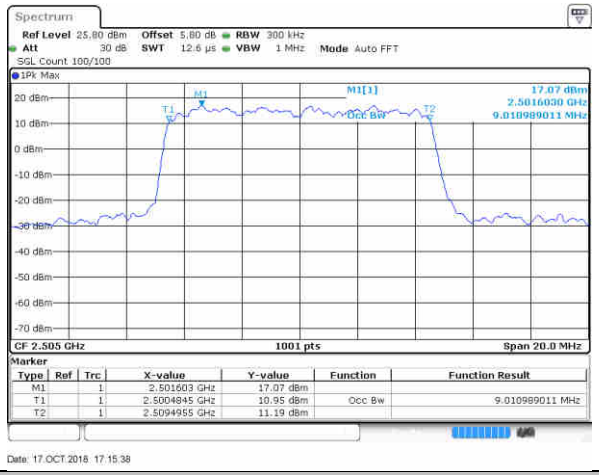


Highest Channel / 5MHz / 16QAM

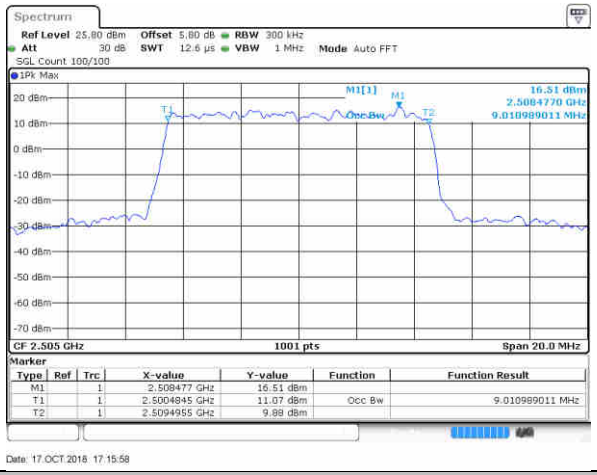


LTE Band 7

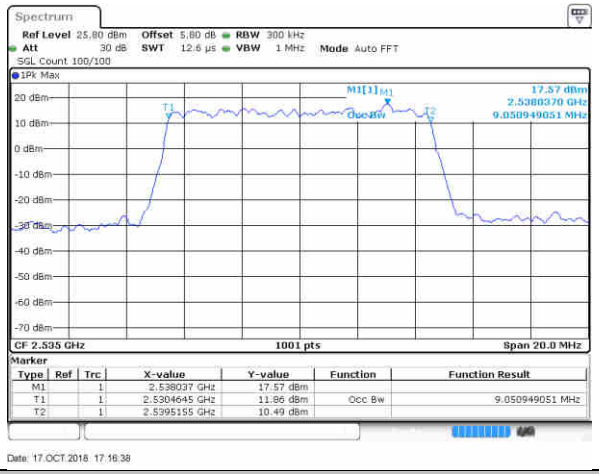
Lowest Channel / 10MHz / QPSK



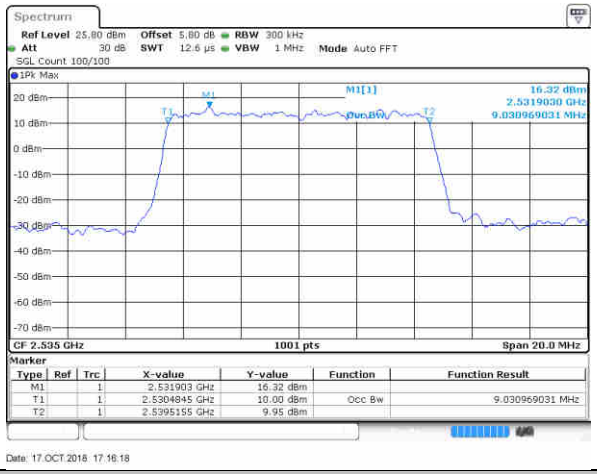
Lowest Channel / 10MHz / 16QAM



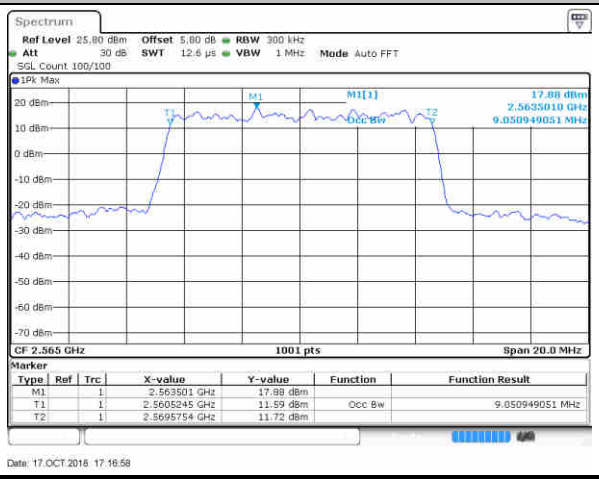
Middle Channel / 10MHz / QPSK



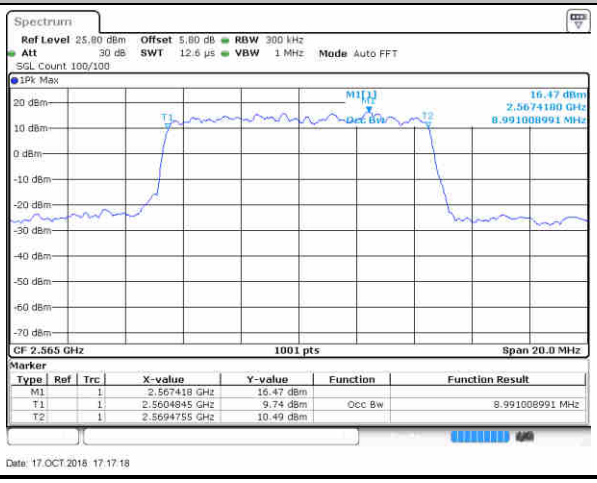
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

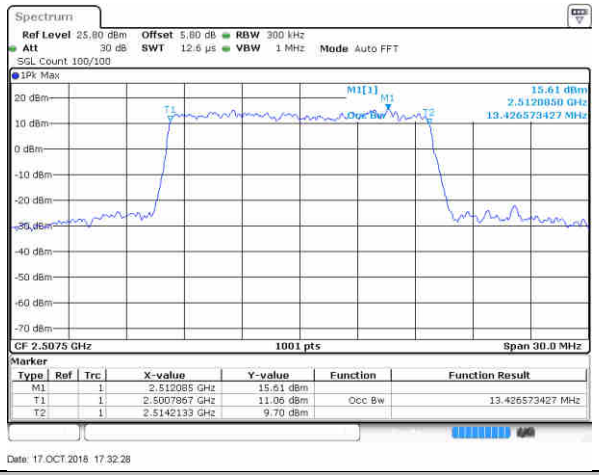


Highest Channel / 10MHz / 16QAM

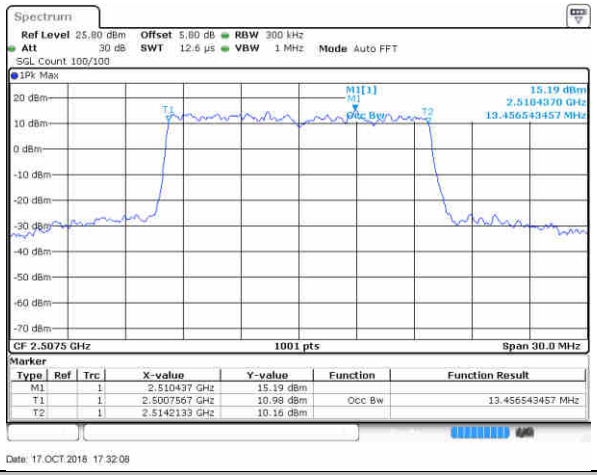


LTE Band 7

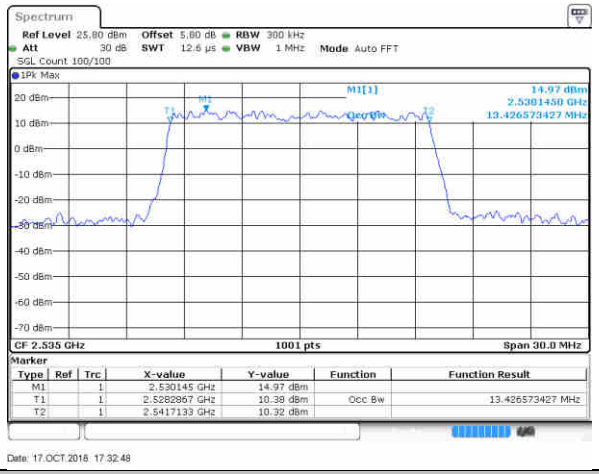
Lowest Channel / 15MHz / QPSK



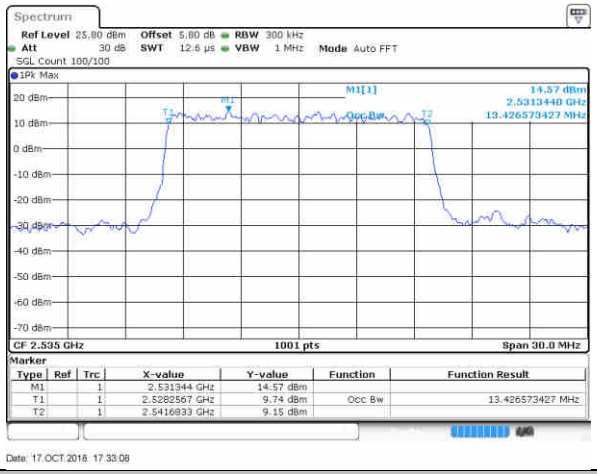
Lowest Channel / 15MHz / 16QAM



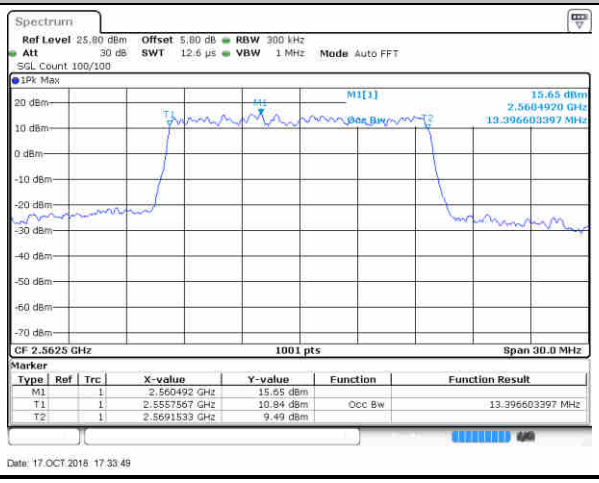
Middle Channel / 15MHz / QPSK



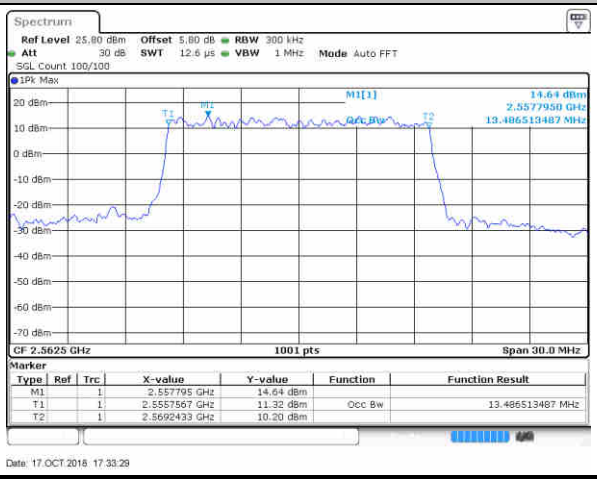
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

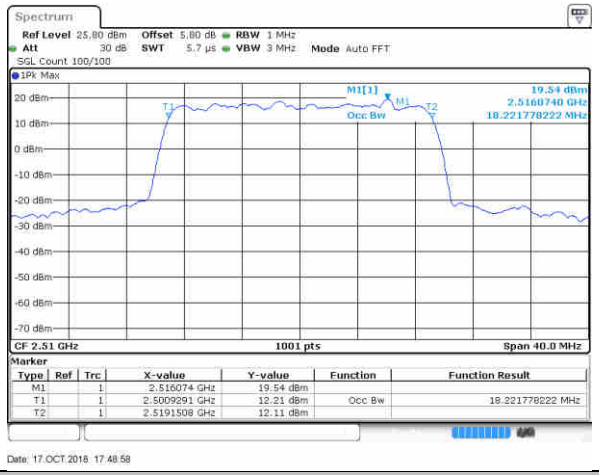


Highest Channel / 15MHz / 16QAM

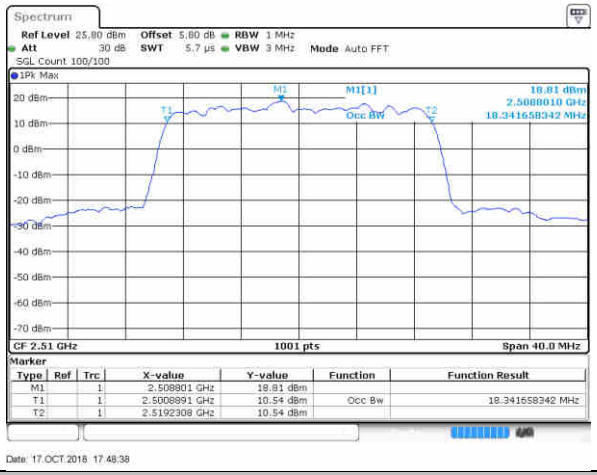


LTE Band 7

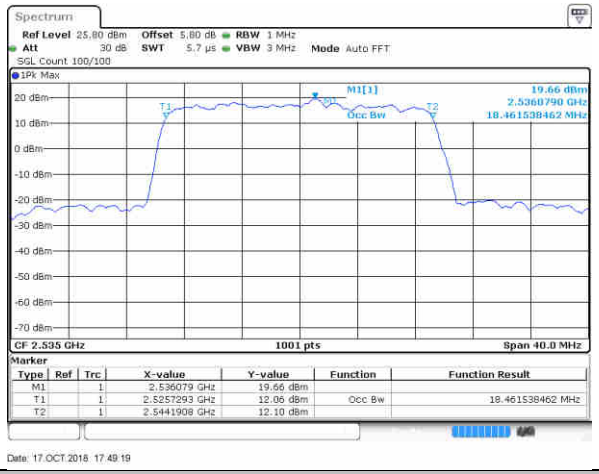
Lowest Channel / 20MHz / QPSK



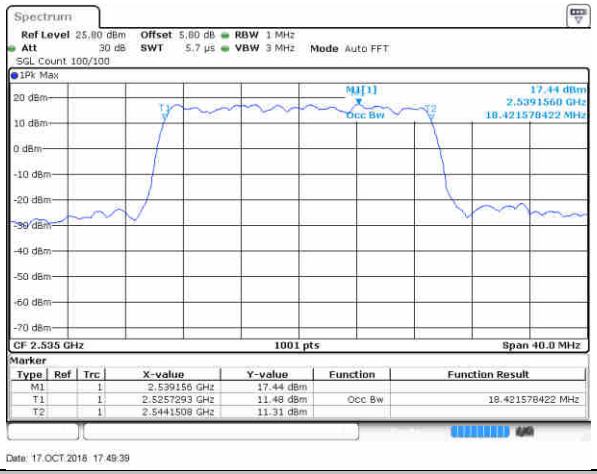
Lowest Channel / 20MHz / 16QAM



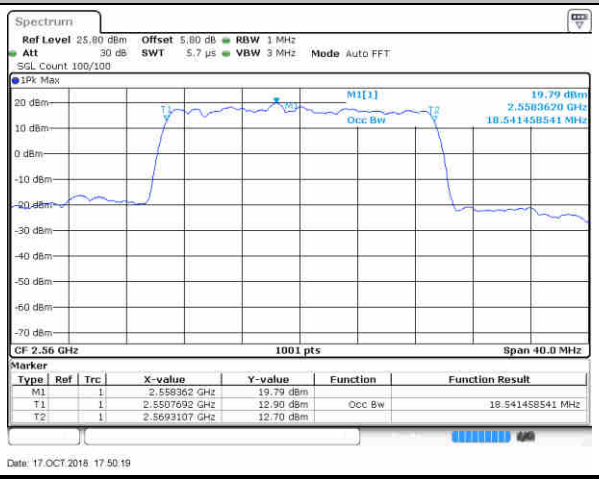
Middle Channel / 20MHz / QPSK



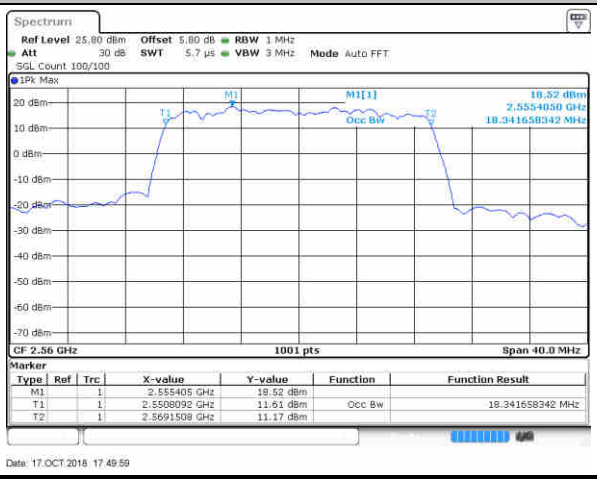
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

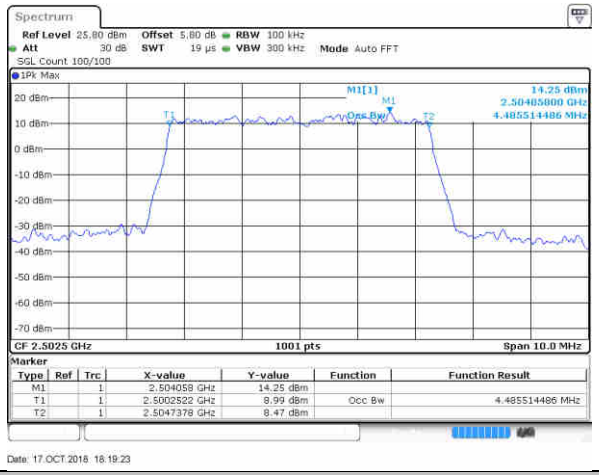


Highest Channel / 20MHz / 16QAM

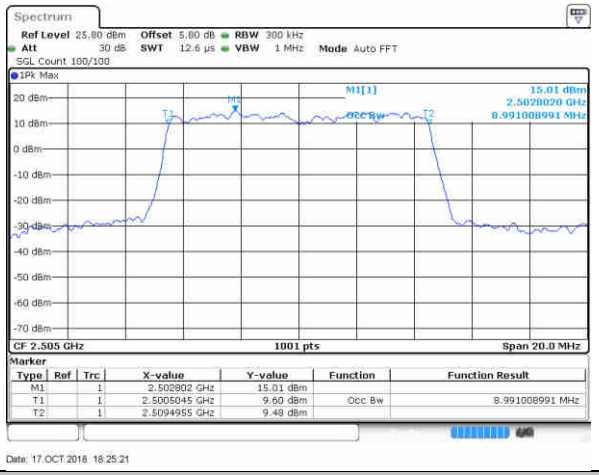


LTE Band 7

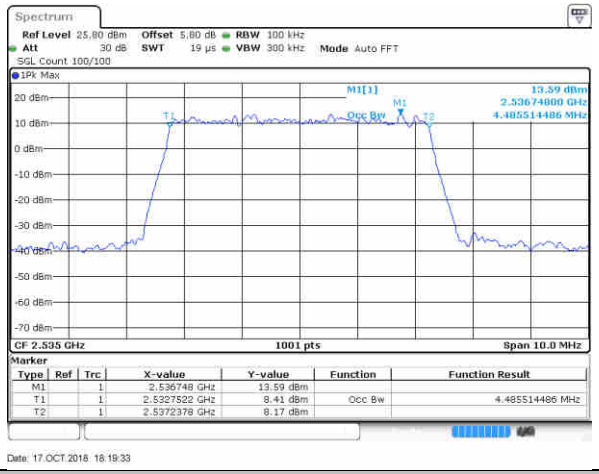
Lowest Channel / 5MHz / 64QAM



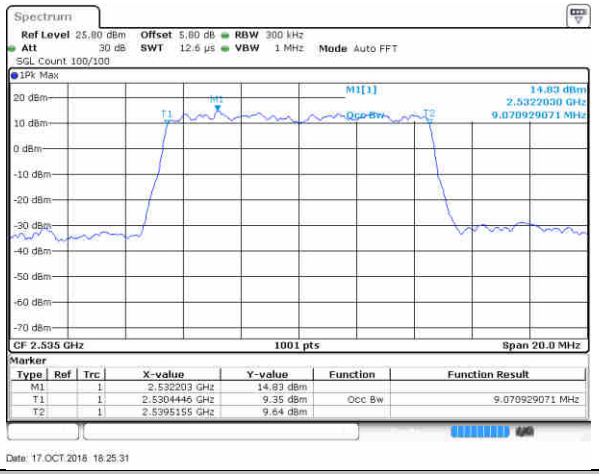
Lowest Channel / 10MHz / 64QAM



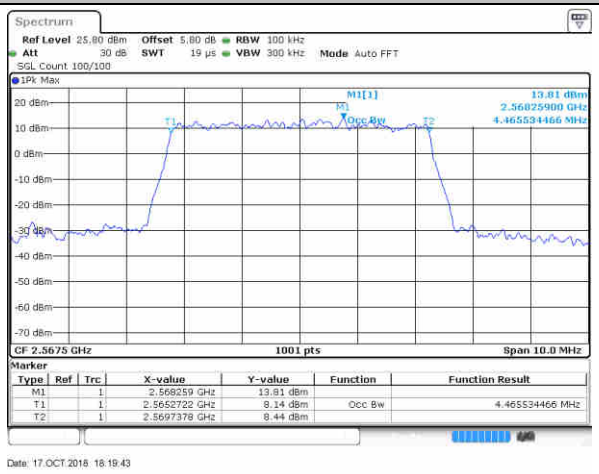
Middle Channel / 5MHz / 64QAM



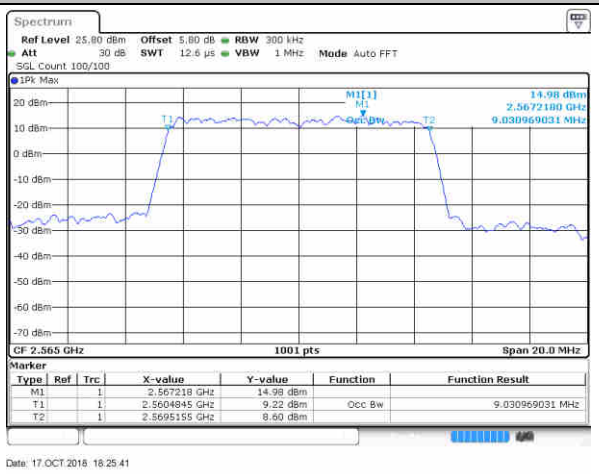
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

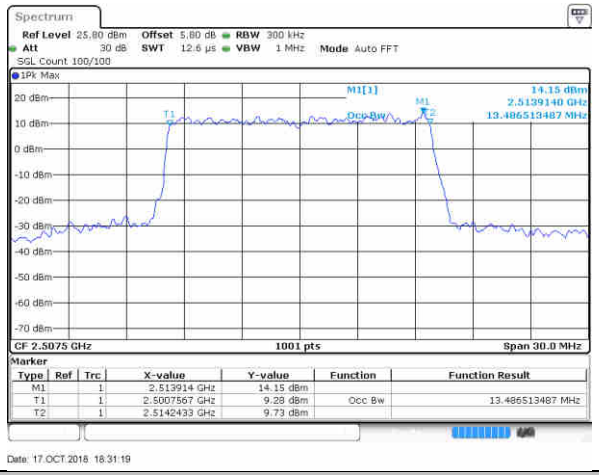


Highest Channel / 10MHz / 64QAM

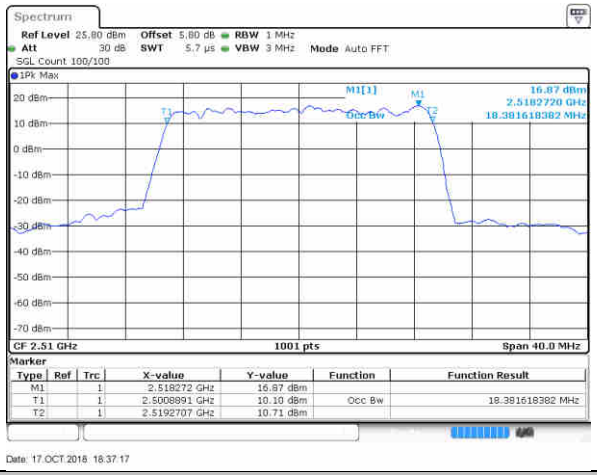


LTE Band 7

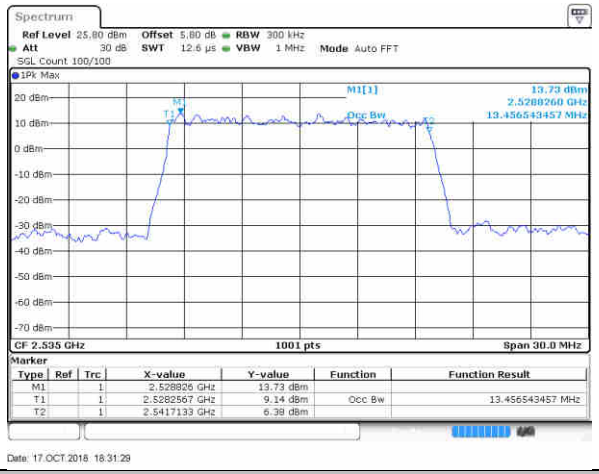
Lowest Channel / 15MHz / 64QAM



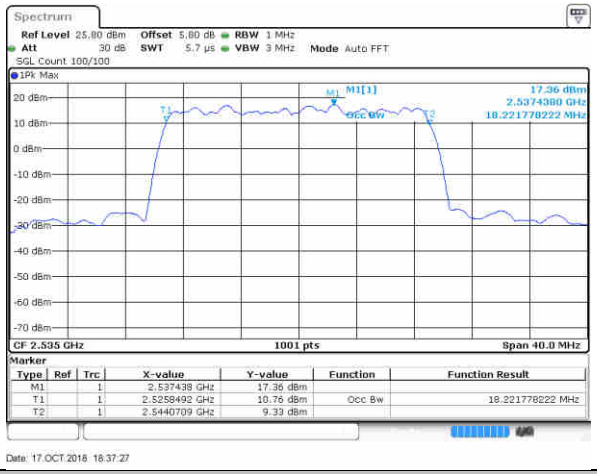
Lowest Channel / 20MHz / 64QAM



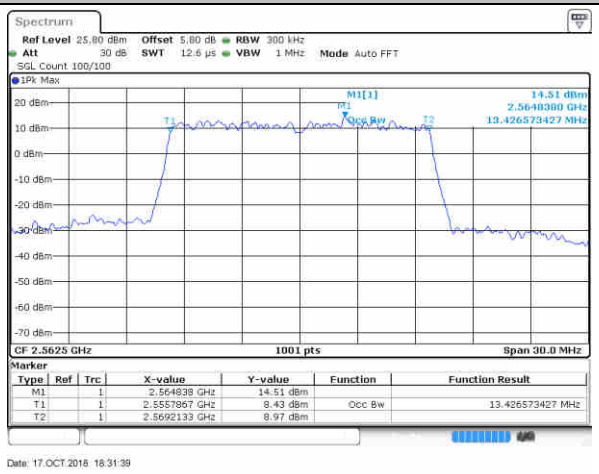
Middle Channel / 15MHz / 64QAM



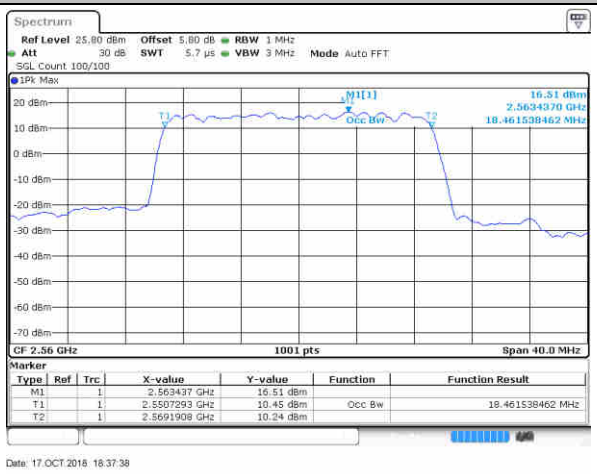
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM

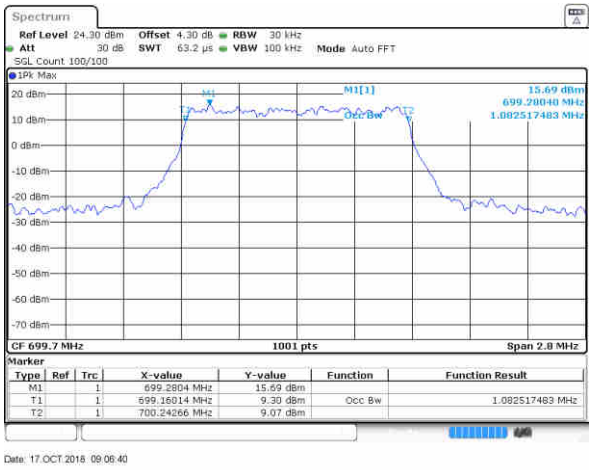


Highest Channel / 20MHz / 64QAM

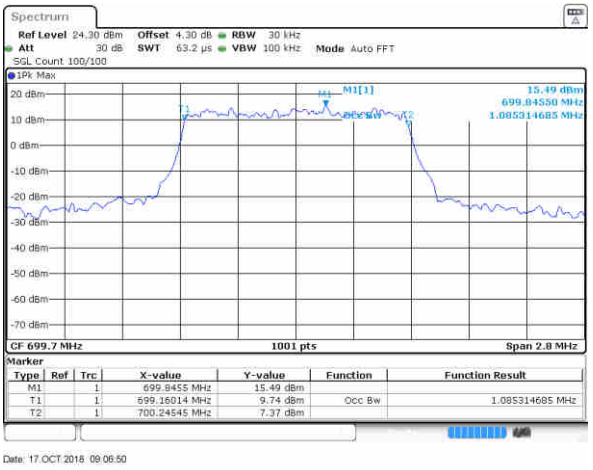


LTE Band 12

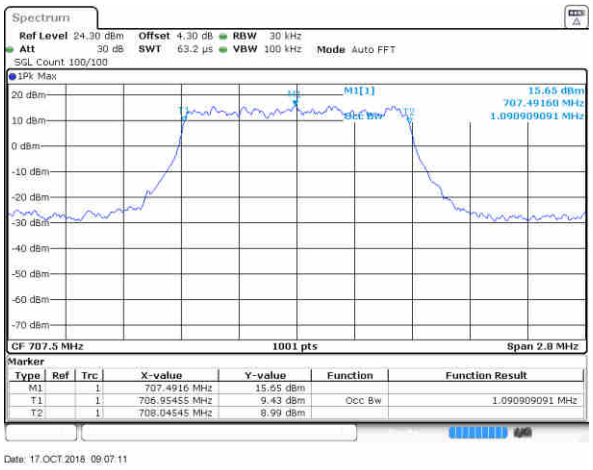
Lowest Channel / 1.4MHz / QPSK



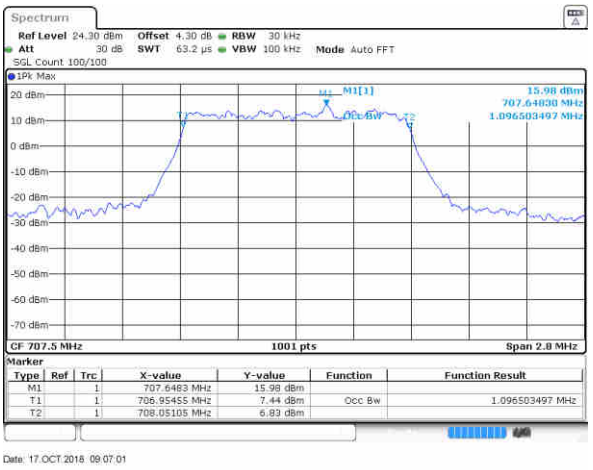
Lowest Channel / 1.4MHz / 16QAM



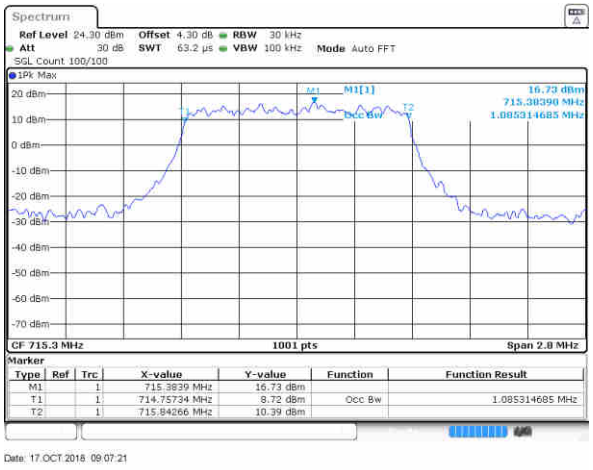
Middle Channel / 1.4MHz / QPSK



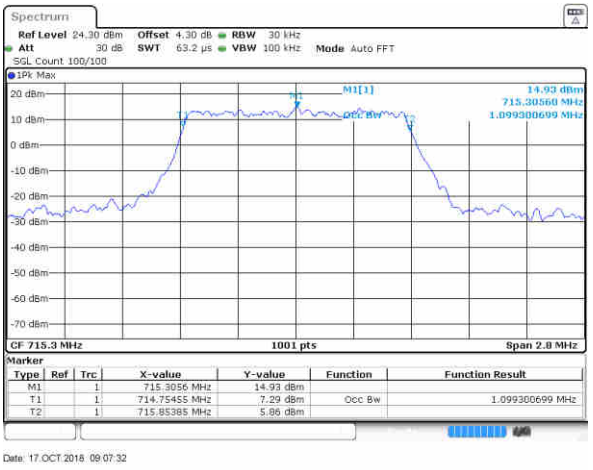
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

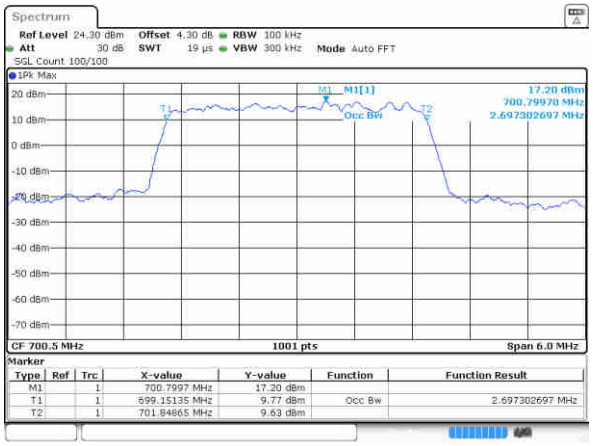


Highest Channel / 1.4MHz / 16QAM

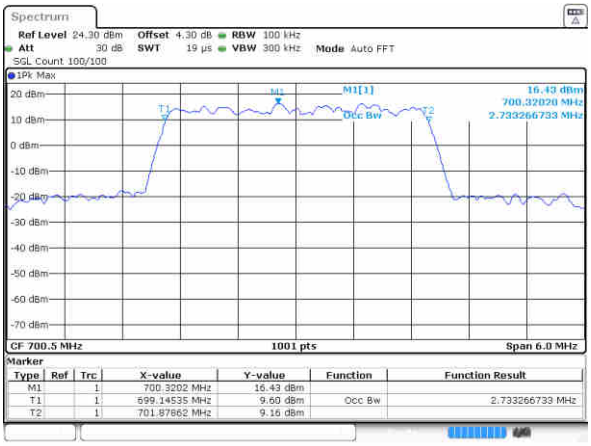


LTE Band 12

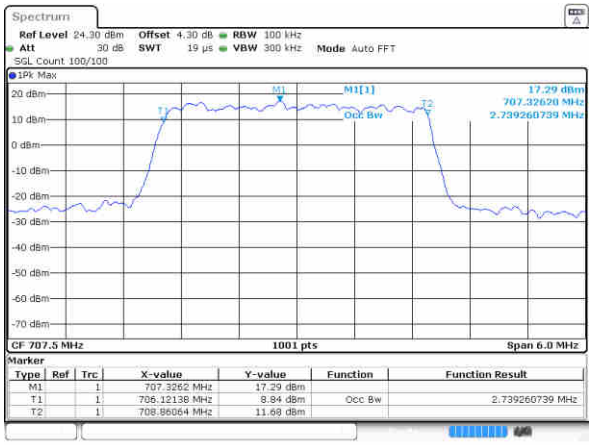
Lowest Channel / 3MHz / QPSK



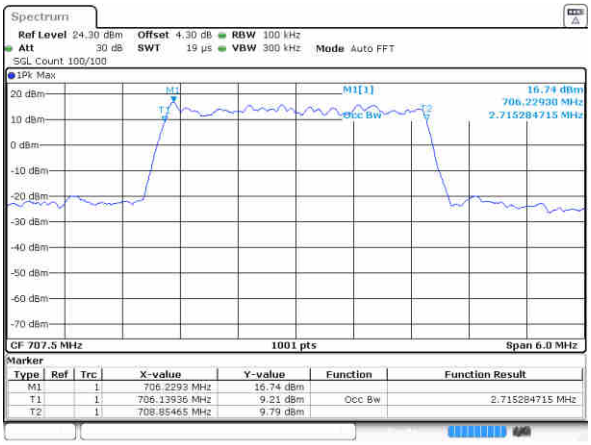
Lowest Channel / 3MHz / 16QAM



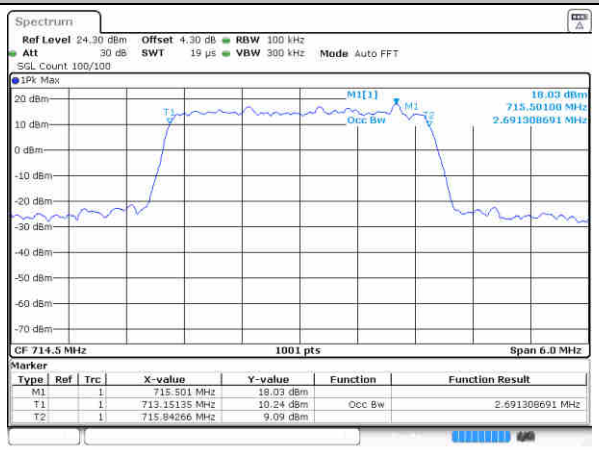
Middle Channel / 3MHz / QPSK



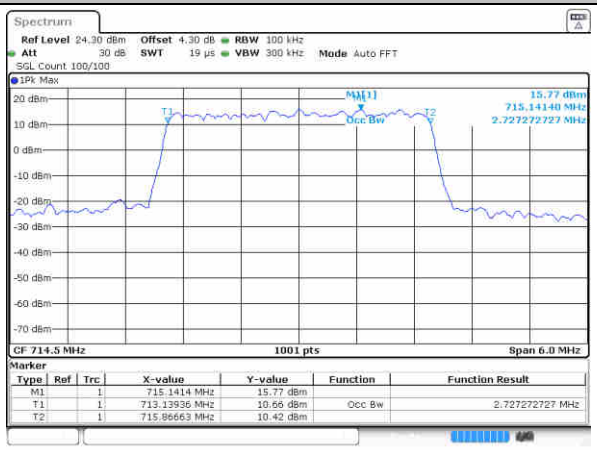
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

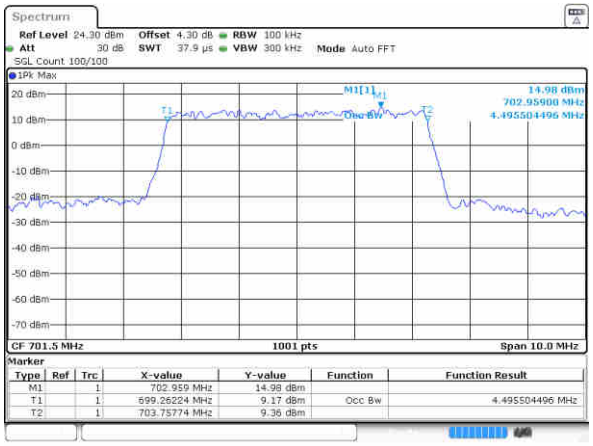


Highest Channel / 3MHz / 16QAM

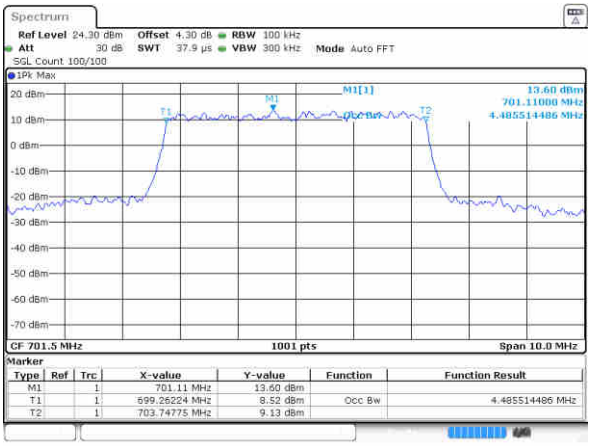


LTE Band 12

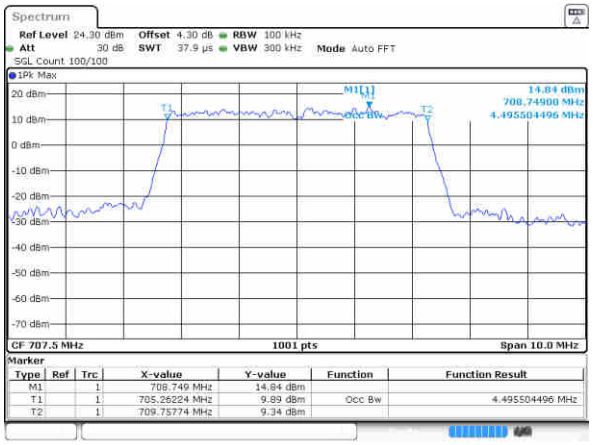
Lowest Channel / 5MHz / QPSK



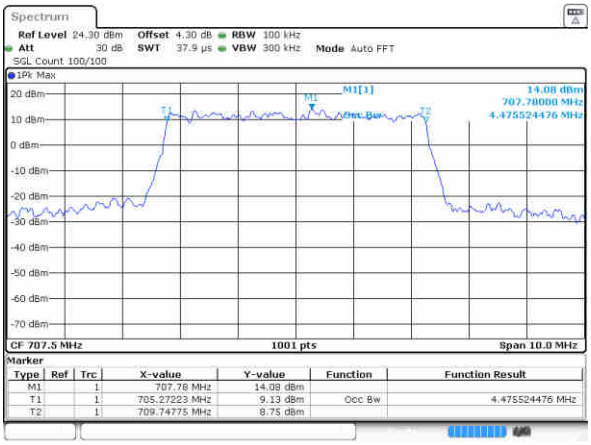
Lowest Channel / 5MHz / 16QAM



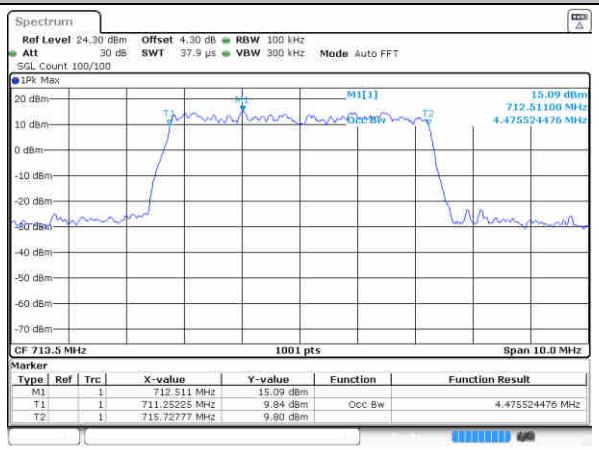
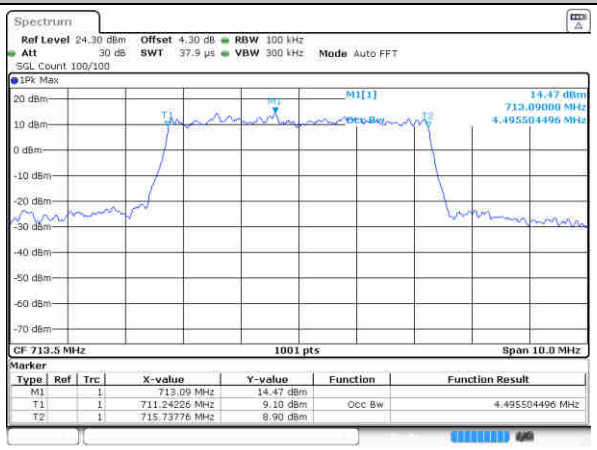
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM