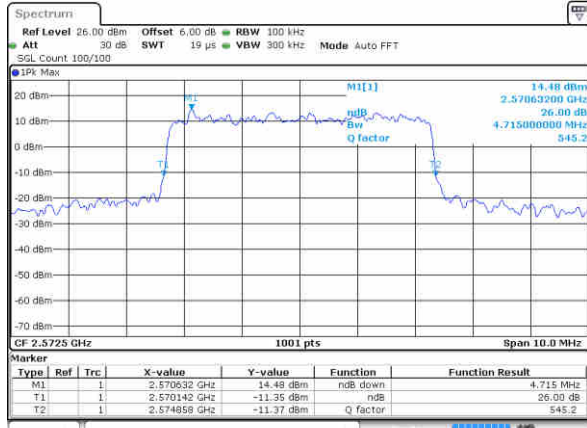




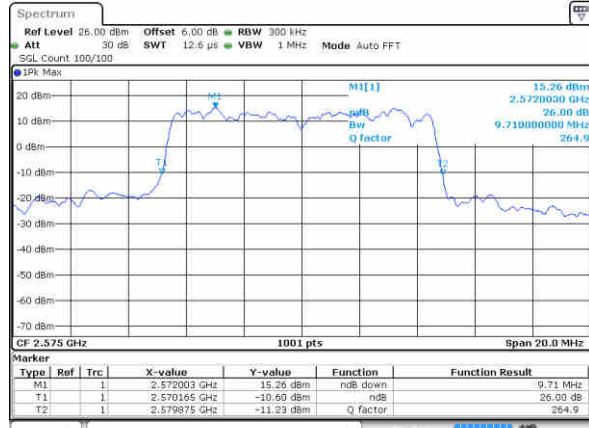
LTE Band 38

Lowest Channel / 5MHz / 64QAM



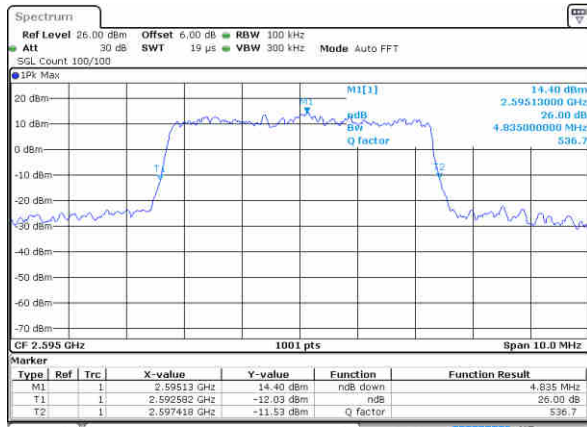
Date: 13 JUN 2019 09:35:13

Lowest Channel / 10MHz / 64QAM



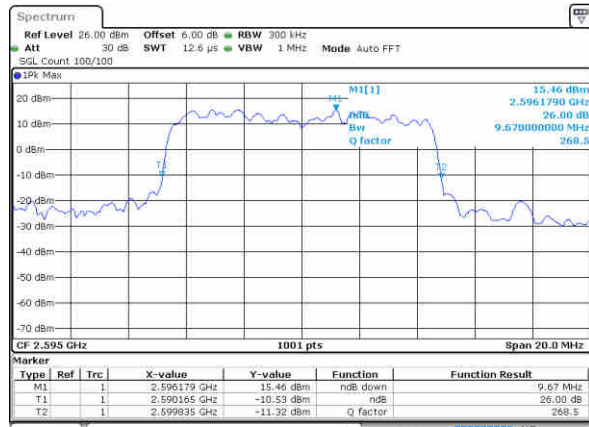
Date: 13 JUN 2019 09:36:13

Middle Channel / 5MHz / 64QAM



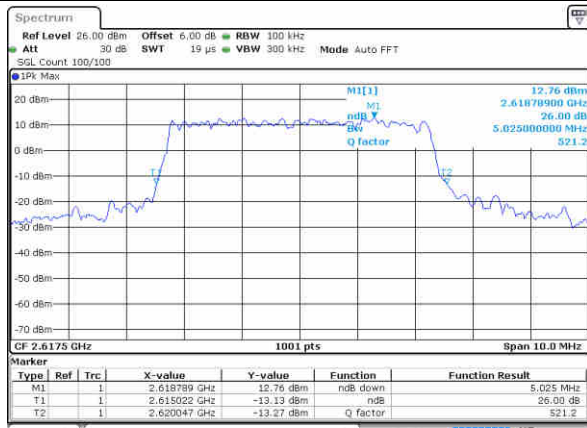
Date: 13 JUN 2019 09:35:33

Middle Channel / 10MHz / 64QAM



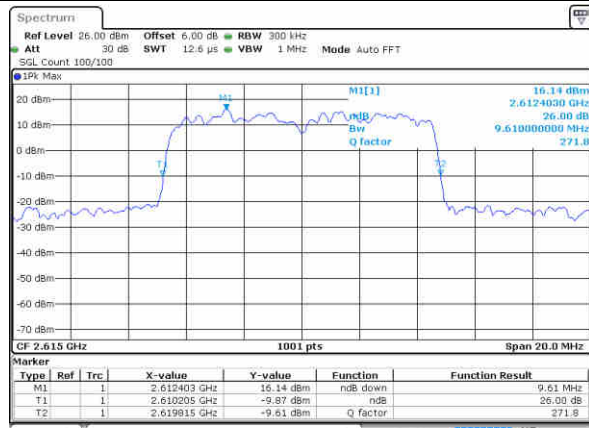
Date: 13 JUN 2019 09:36:33

Highest Channel / 5MHz / 64QAM



Date: 13 JUN 2019 09:35:53

Highest Channel / 10MHz / 64QAM

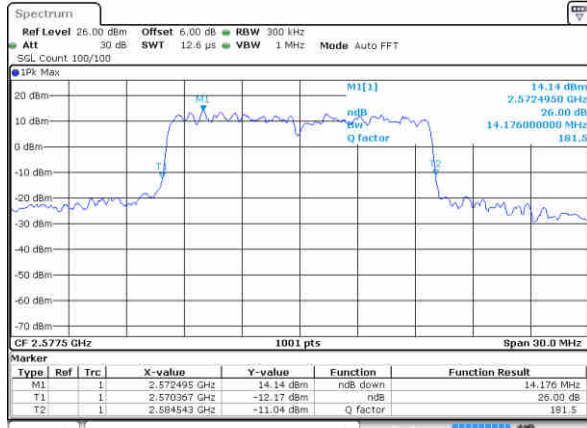


Date: 13 JUN 2019 09:36:53



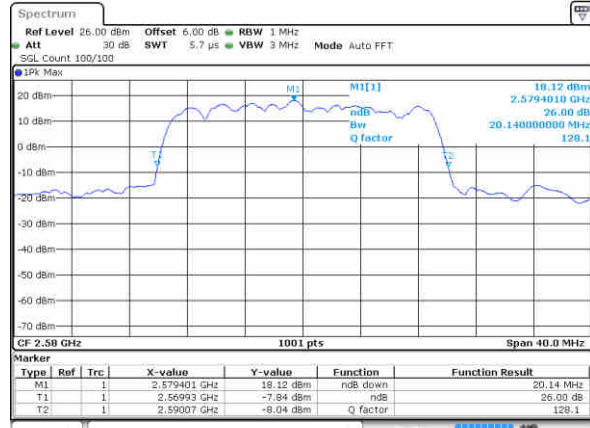
LTE Band 38

Lowest Channel / 15MHz / 64QAM



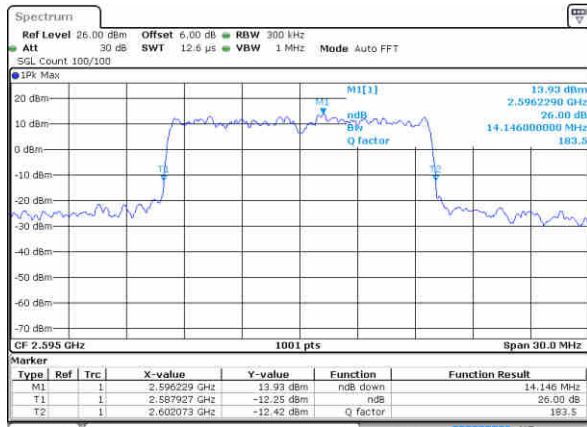
Date: 13 JUN 2019 09:37:14

Lowest Channel / 20MHz / 64QAM



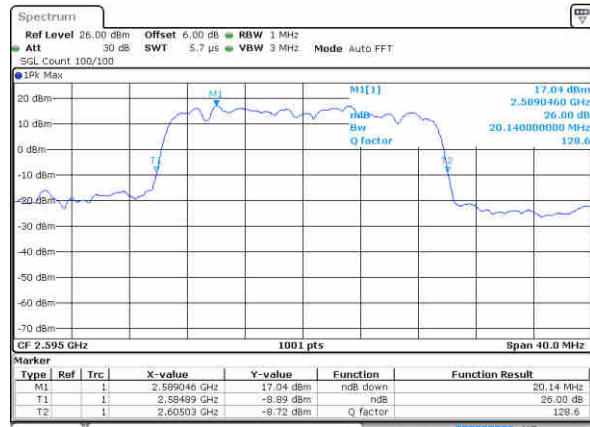
Date: 13 JUN 2019 09:38:14

Middle Channel / 15MHz / 64QAM



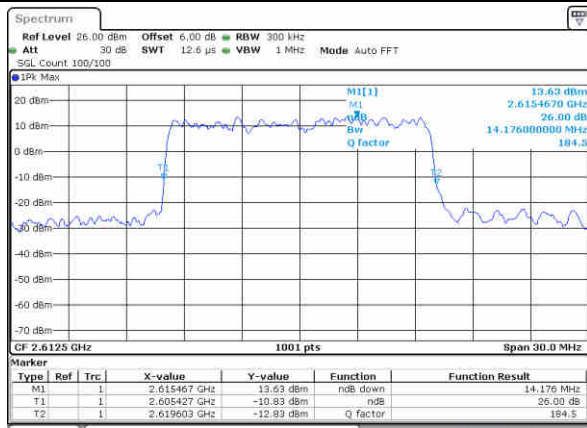
Date: 13 JUN 2019 09:37:34

Middle Channel / 20MHz / 64QAM



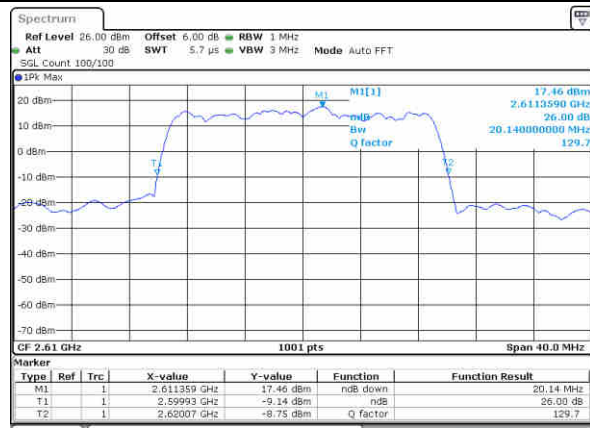
Date: 13 JUN 2019 09:38:34

Highest Channel / 15MHz / 64QAM



Date: 13 JUN 2019 09:37:54

Highest Channel / 20MHz / 64QAM



Date: 13 JUN 2019 09:38:54

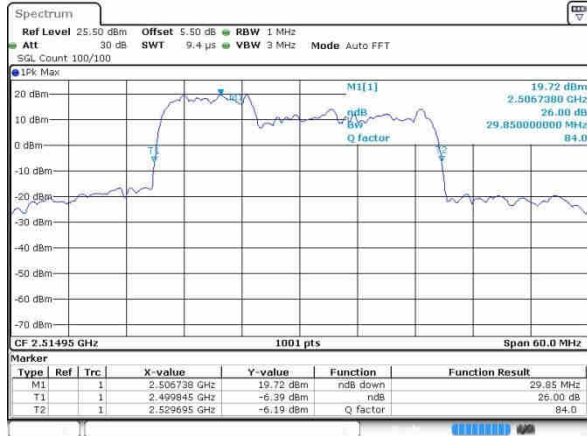


For CA

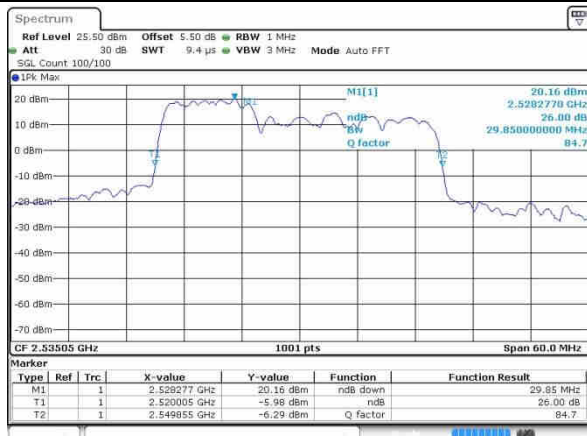
LTE Band 7

QPSK

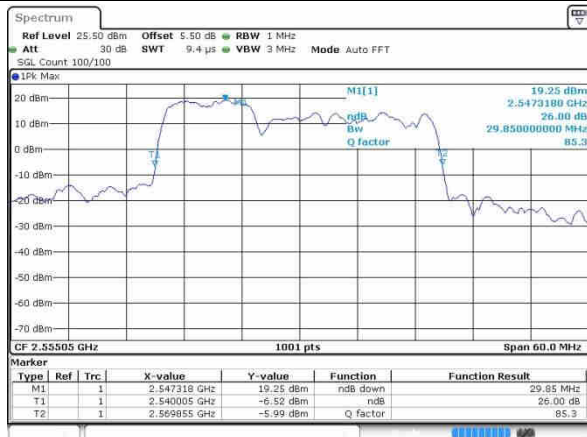
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

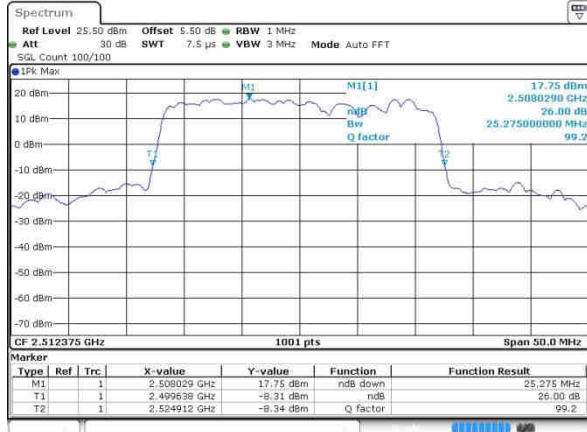




LTE Band 7

QPSK

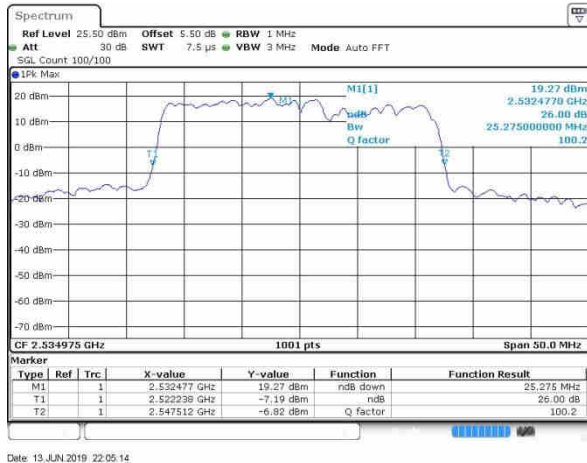
Lowest Channel / 15MHz+10MHz



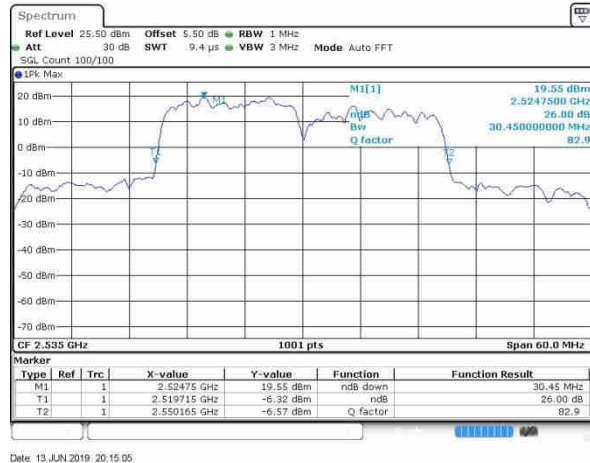
Lowest Channel / 15MHz+15MHz



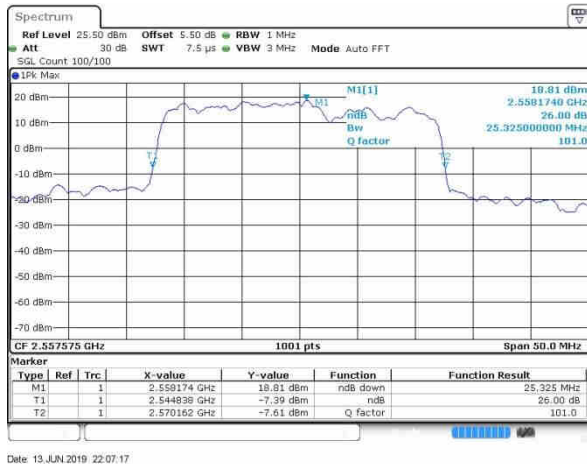
Middle Channel / 15MHz+10MHz



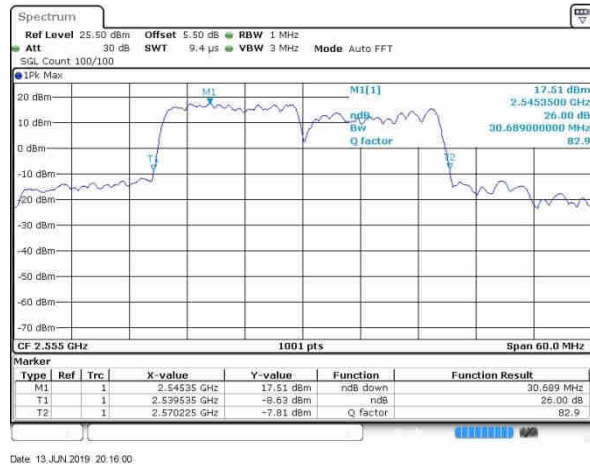
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

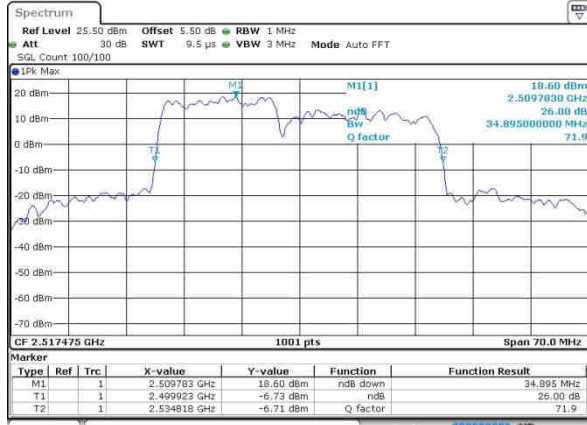




LTE Band 7

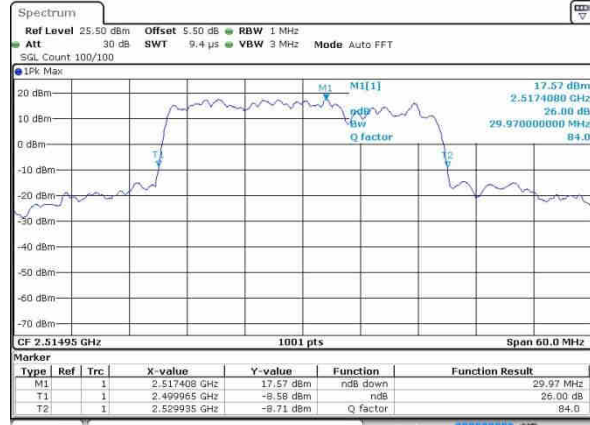
QPSK

Lowest Channel / 15MHz+20MHz



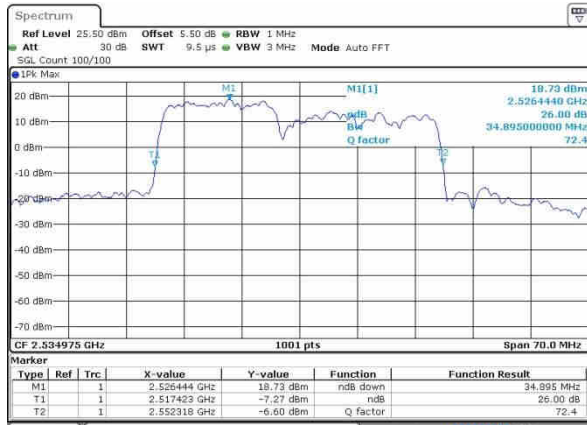
Date 13 JUN 2019 20:56:49

Lowest Channel / 20MHz+10MHz



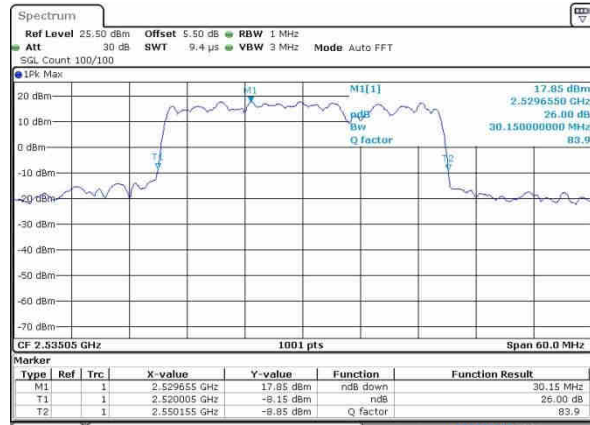
Date 13 JUN 2019 20:10:41

Middle Channel / 15MHz+20MHz



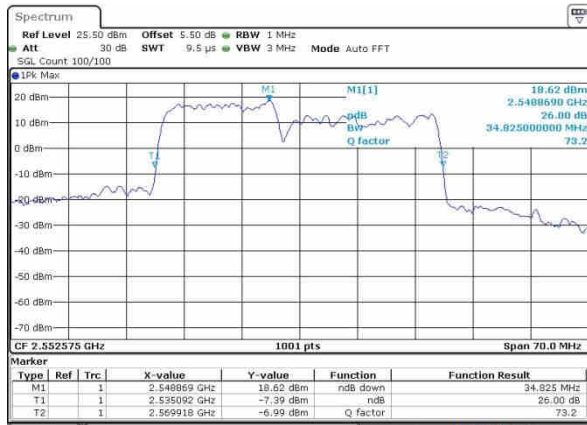
Date 13 JUN 2019 20:57:25

Middle Channel / 20MHz+10MHz



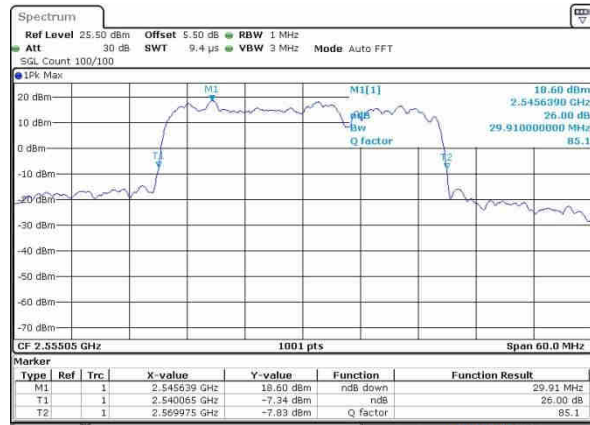
Date 13 JUN 2019 20:01:24

Highest Channel / 15MHz+20MHz



Date 13 JUN 2019 20:59:21

Highest Channel / 20MHz+10MHz



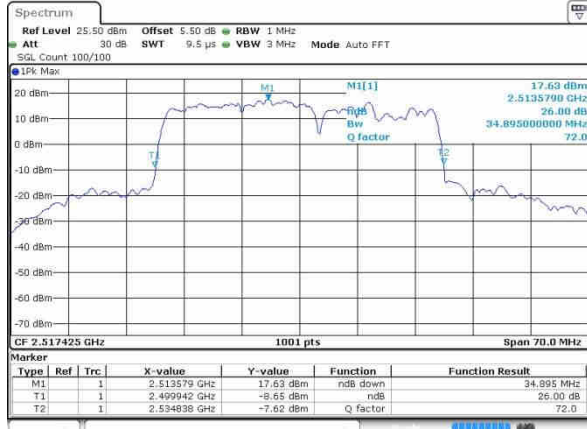
Date 13 JUN 2019 20:00:29



LTE Band 7

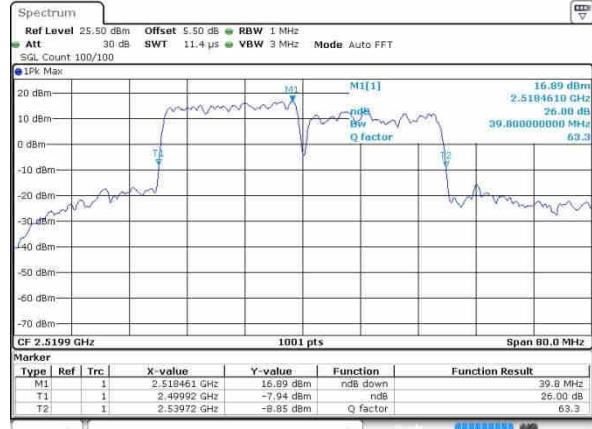
QPSK

Lowest Channel / 20MHz+15MHz



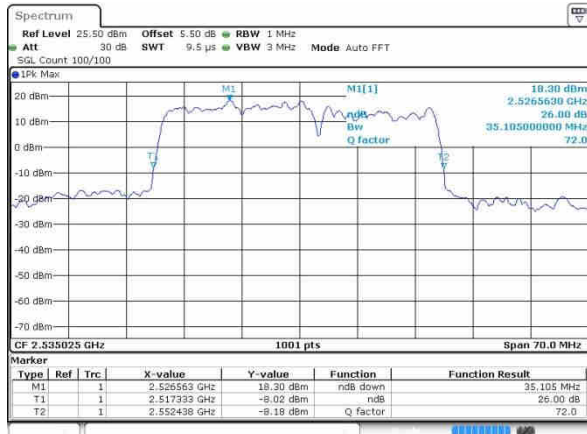
Date 13 JUN 2019 21:19:54

Lowest Channel / 20MHz+20MHz



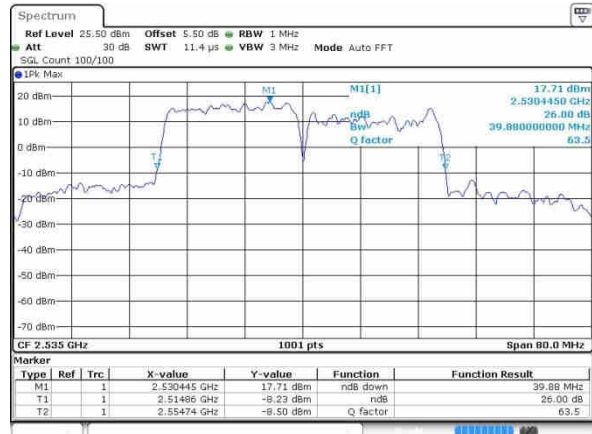
Date 13 JUN 2019 21:24:30

Middle Channel / 20MHz+15MHz



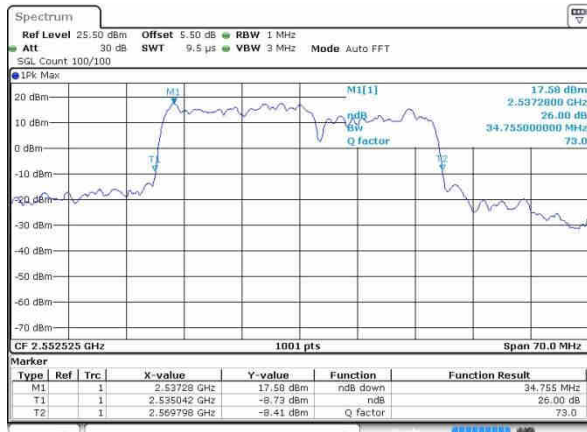
Date 13 JUN 2019 21:20:43

Middle Channel / 20MHz+20MHz



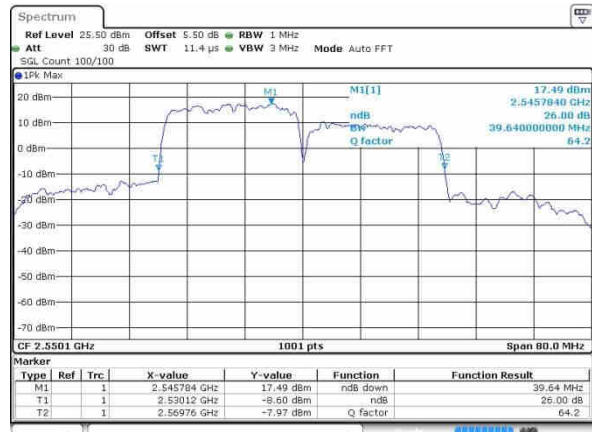
Date 13 JUN 2019 21:26:24

Highest Channel / 20MHz+15MHz



Date 13 JUN 2019 21:23:38

Highest Channel / 20MHz+20MHz



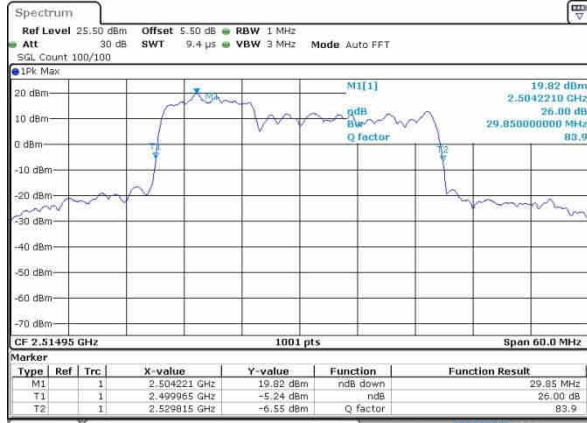
Date 13 JUN 2019 21:27:01



LTE Band 7

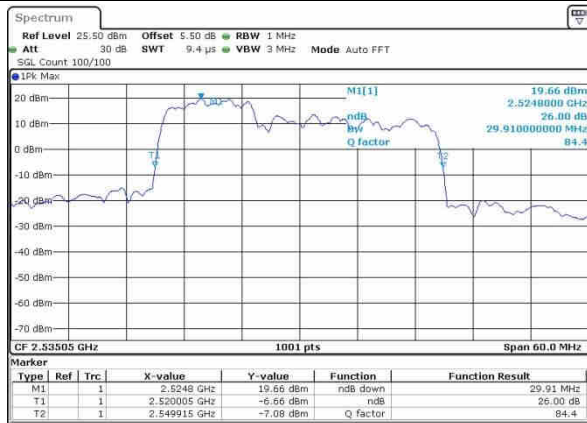
16QAM

Lowest Channel / 10MHz+20MHz



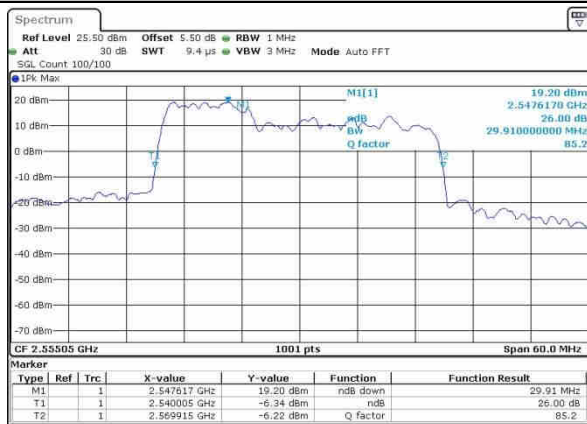
Date 13 JUN 2019 19:40:37

Middle Channel / 10MHz+20MHz



Date 13 JUN 2019 19:42:50

Highest Channel / 10MHz+20MHz



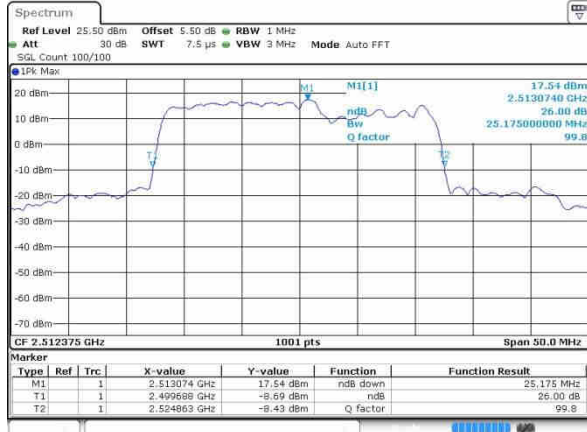
Date 13 JUN 2019 19:45:17



LTE Band 7

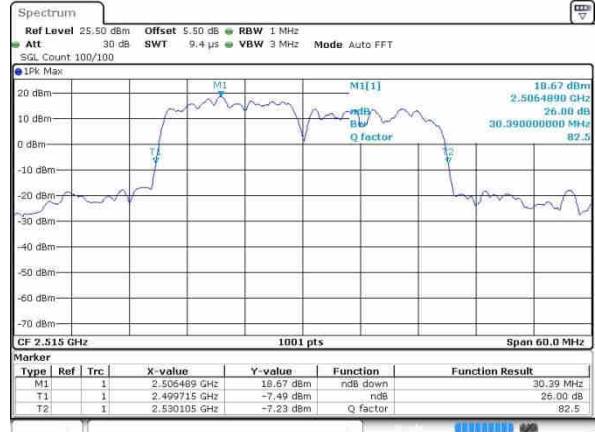
16QAM

Lowest Channel / 15MHz+10MHz



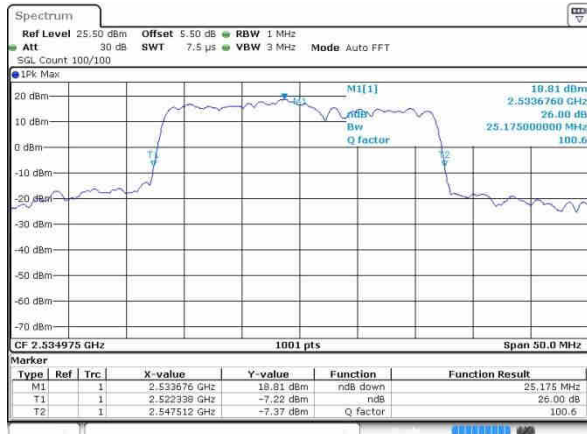
Date 13 JUN 2019 22:04:13

Lowest Channel / 15MHz+15MHz



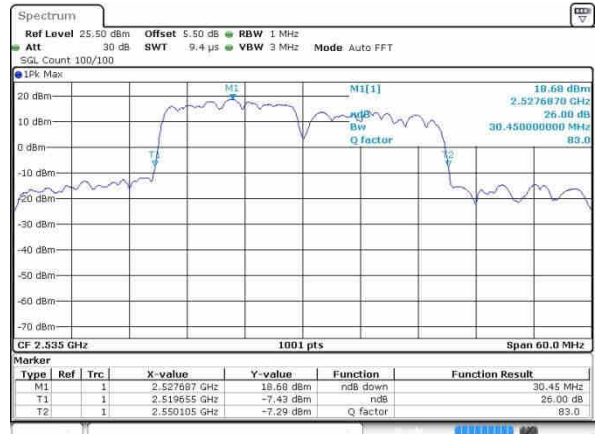
Date 13 JUN 2019 20:12:36

Middle Channel / 15MHz+10MHz



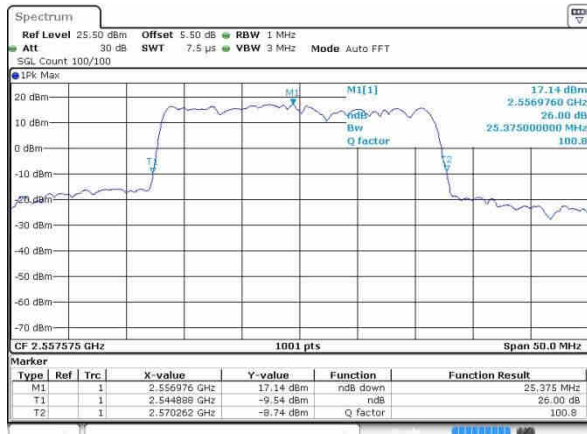
Date 13 JUN 2019 22:05:34

Middle Channel / 15MHz+15MHz



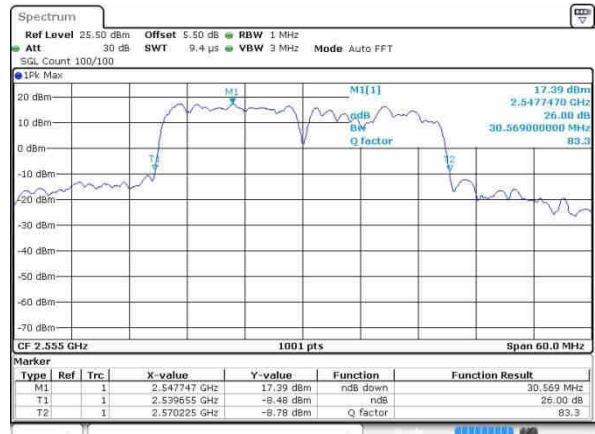
Date 13 JUN 2019 20:14:38

Highest Channel / 15MHz+10MHz



Date 13 JUN 2019 22:06:57

Highest Channel / 15MHz+15MHz



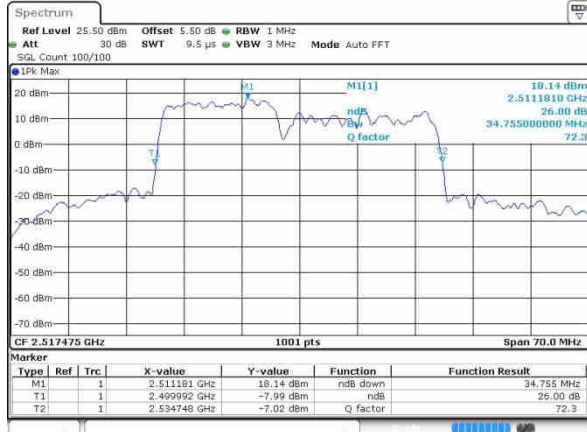
Date 13 JUN 2019 20:16:33



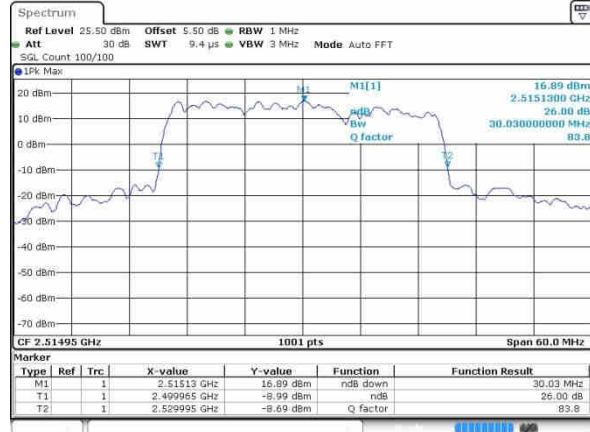
LTE Band 7

16QAM

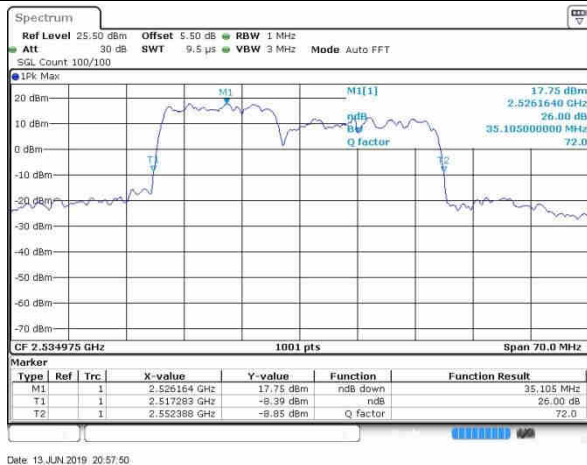
Lowest Channel / 15MHz+20MHz



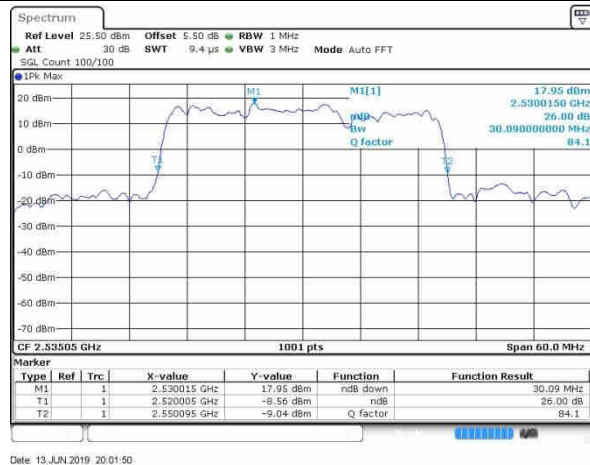
Lowest Channel / 20MHz+10MHz



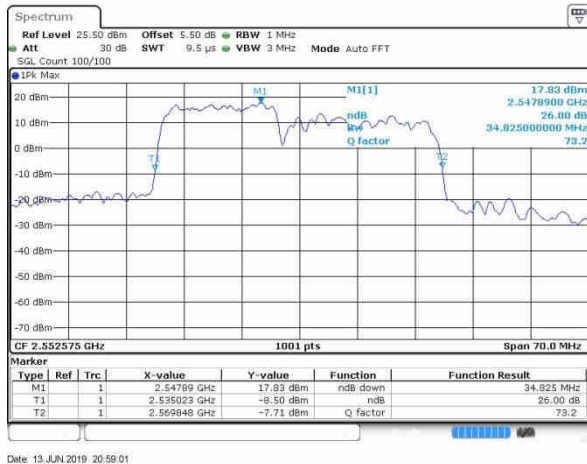
Middle Channel / 15MHz+20MHz



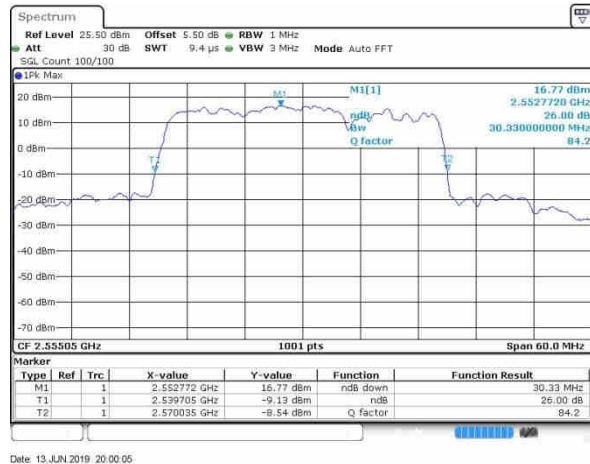
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

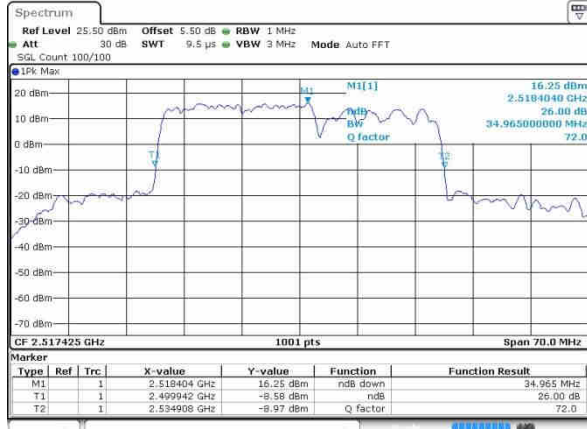




LTE Band 7

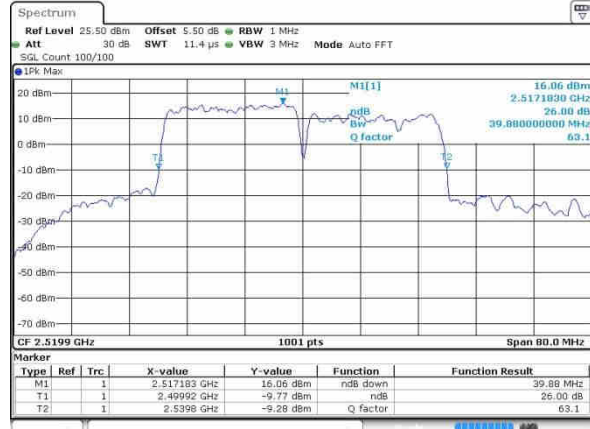
16QAM

Lowest Channel / 20MHz+15MHz



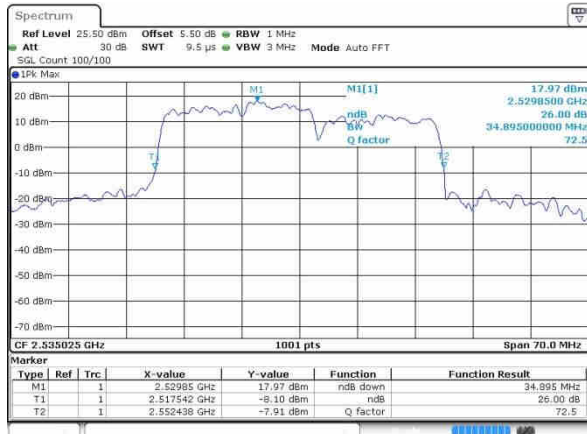
Date 13 JUN 2019 21:19:31

Lowest Channel / 20MHz+20MHz



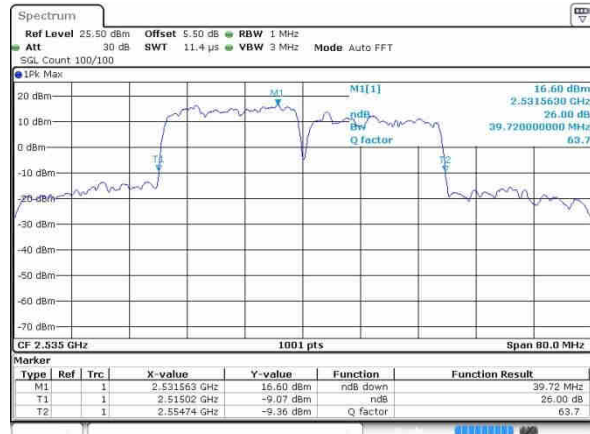
Date 13 JUN 2019 21:24:53

Middle Channel / 20MHz+15MHz



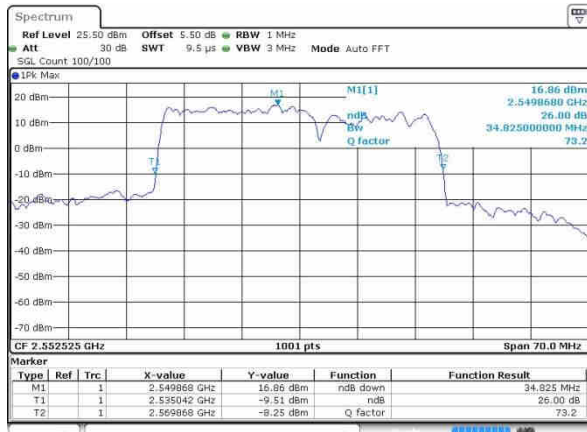
Date 13 JUN 2019 21:21:05

Middle Channel / 20MHz+20MHz



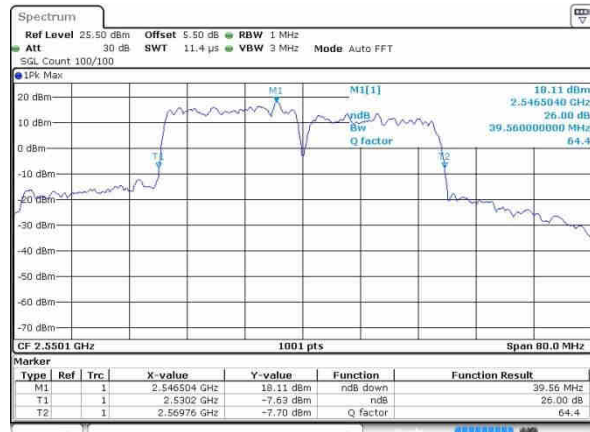
Date 13 JUN 2019 21:26:04

Highest Channel / 20MHz+15MHz



Date 13 JUN 2019 21:23:03

Highest Channel / 20MHz+20MHz



Date 13 JUN 2019 21:27:22



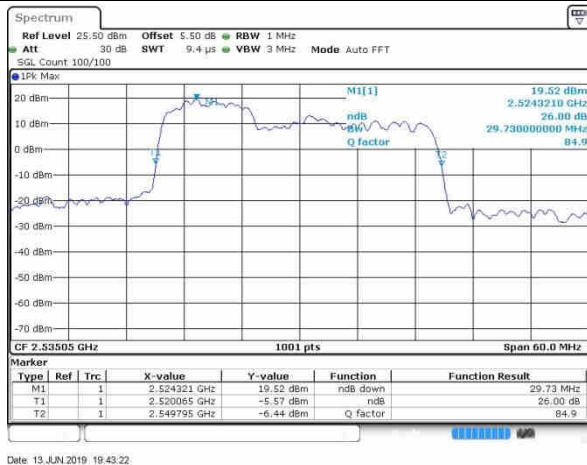
LTE Band 7

64QAM

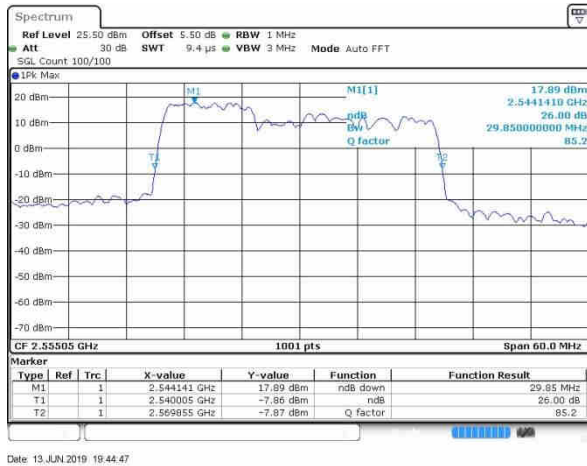
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

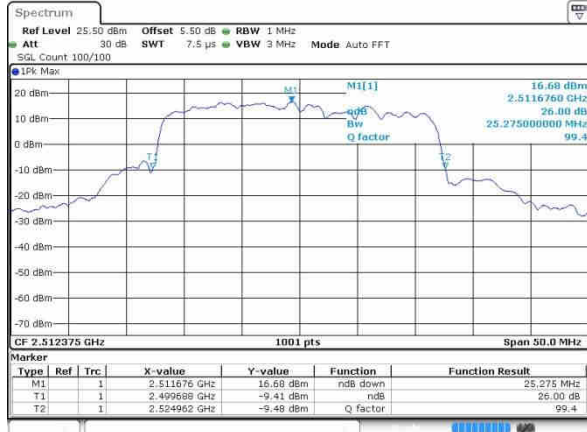




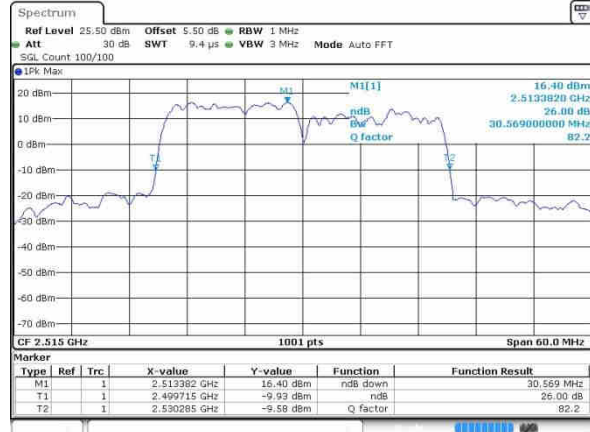
LTE Band 7

64QAM

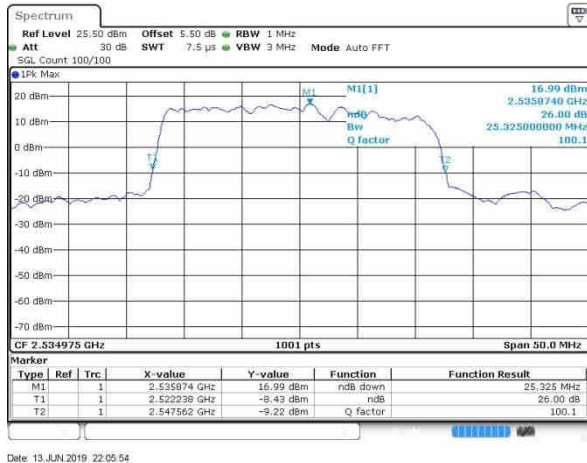
Lowest Channel / 15MHz+10MHz



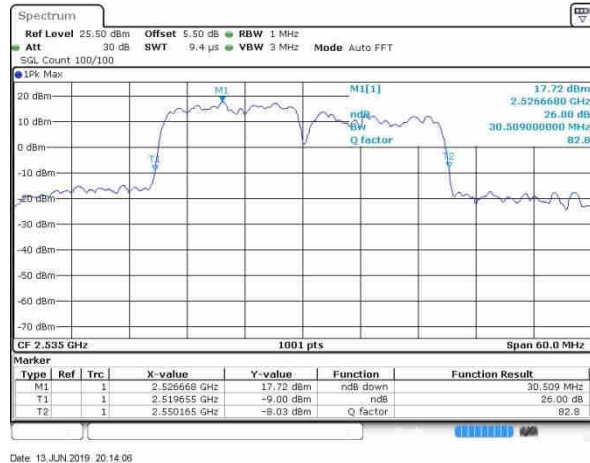
Lowest Channel / 15MHz+15MHz



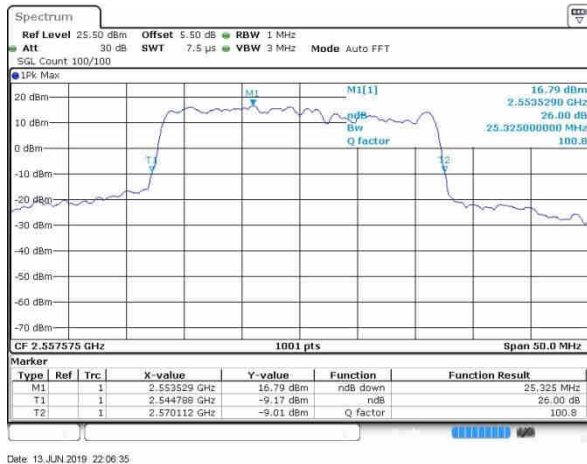
Middle Channel / 15MHz+10MHz



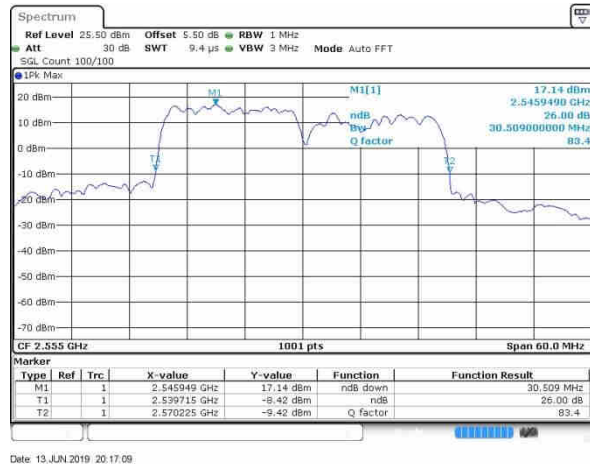
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz





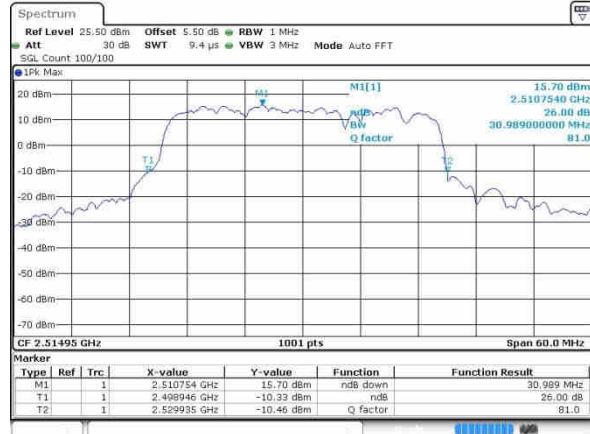
LTE Band 7

64QAM

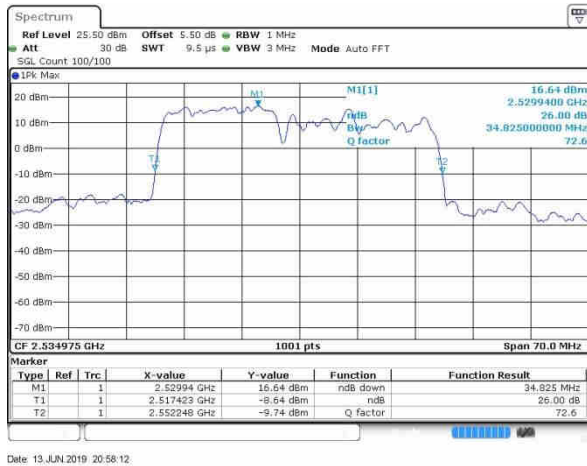
Lowest Channel / 15MHz+20MHz



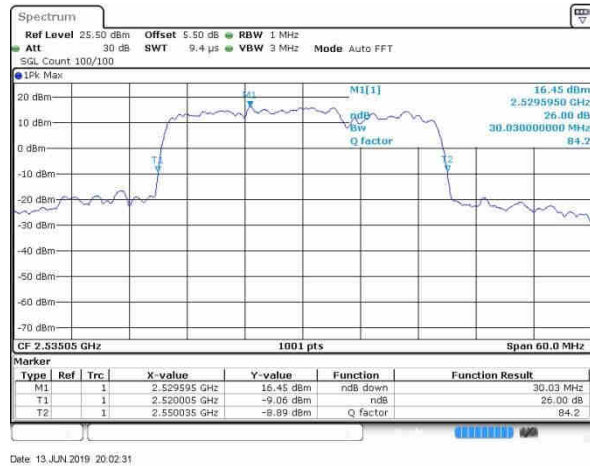
Lowest Channel / 20MHz+10MHz



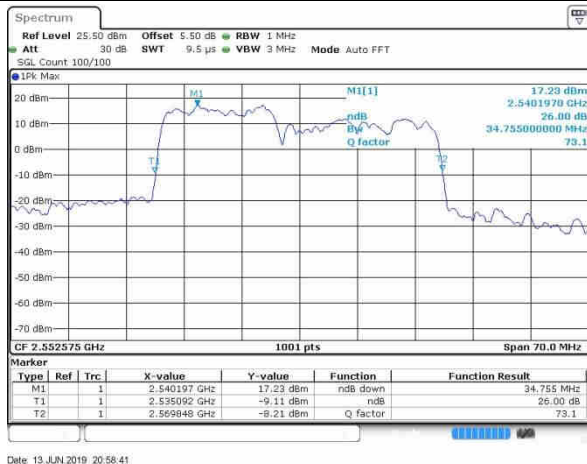
Middle Channel / 15MHz+20MHz



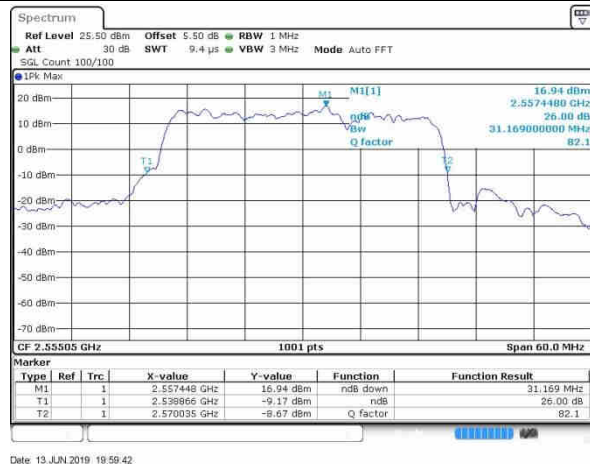
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

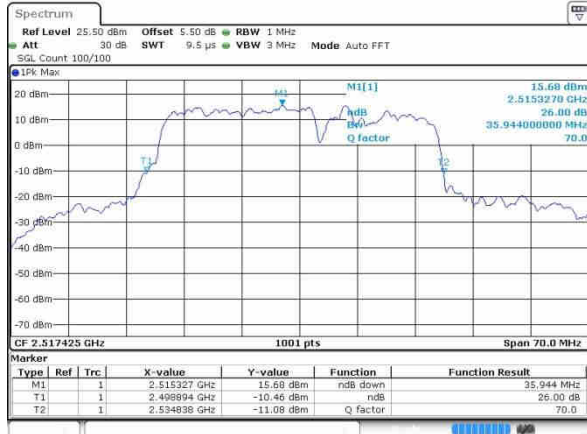




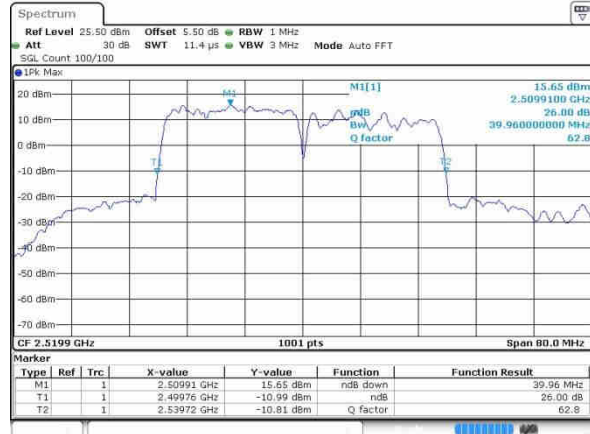
LTE Band 7

64QAM

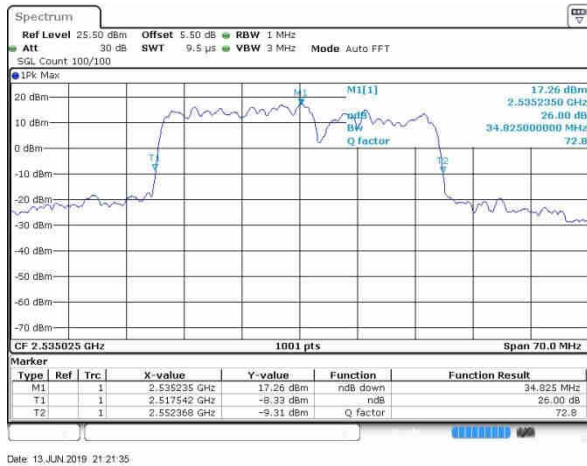
Lowest Channel / 20MHz+15MHz



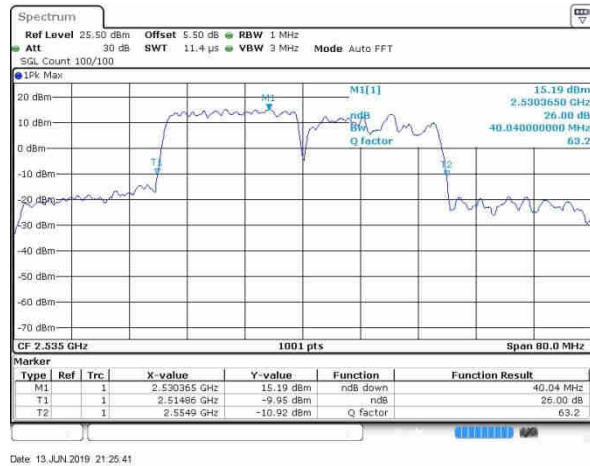
Lowest Channel / 20MHz+20MHz



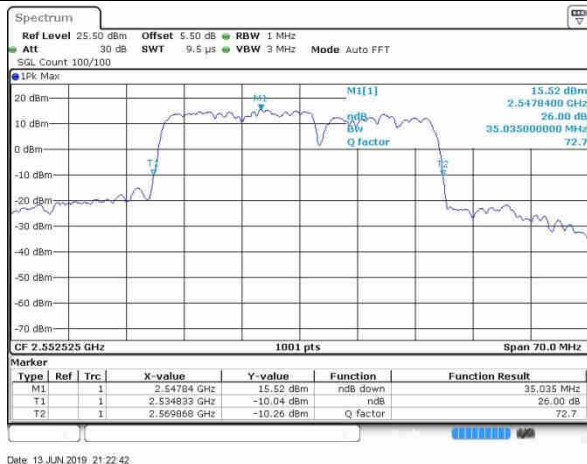
Middle Channel / 20MHz+15MHz



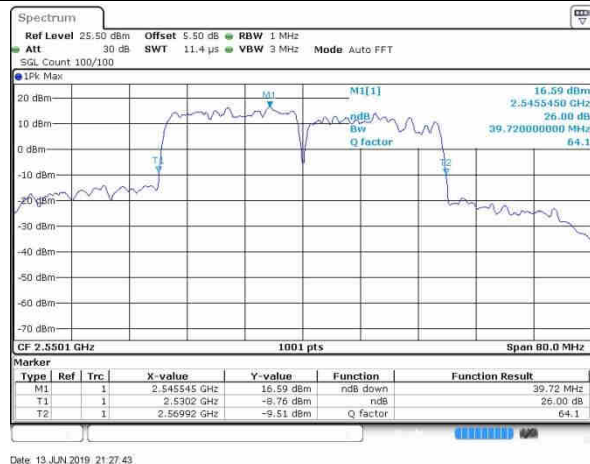
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz

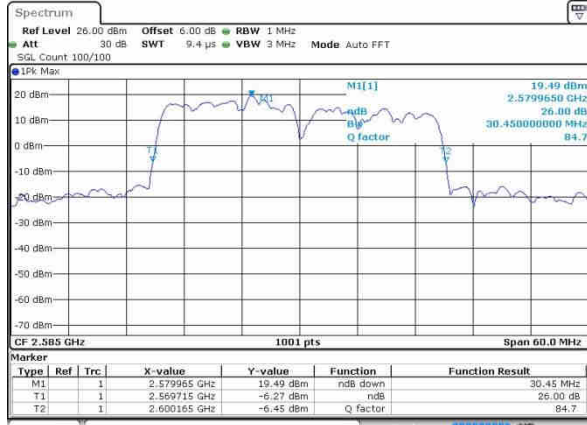




LTE Band 38

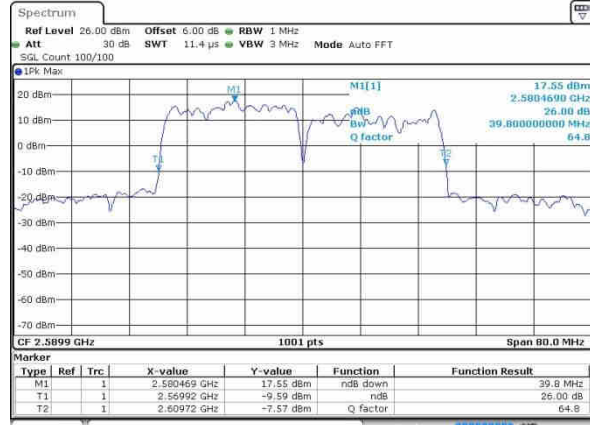
QPSK

Lowest Channel / 15MHz+15MHz



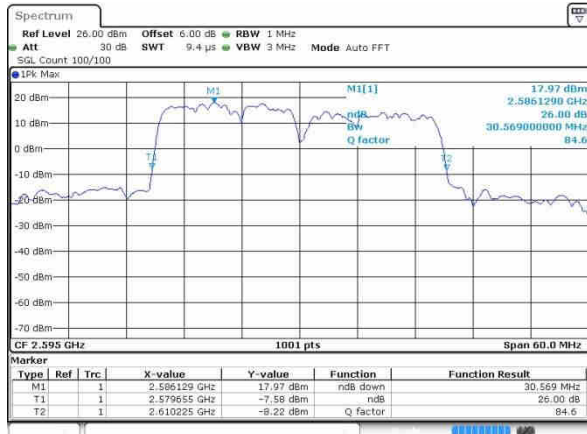
Date 14 JUN 2019 20:07:36

Lowest Channel / 20MHz+20MHz



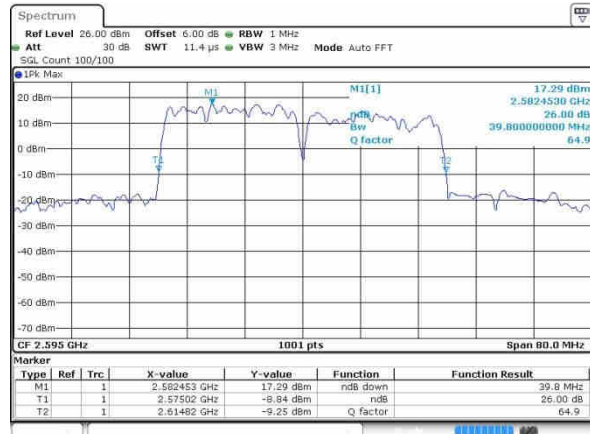
Date 21 JUN 2019 20:43:17

Middle Channel / 15MHz+15MHz



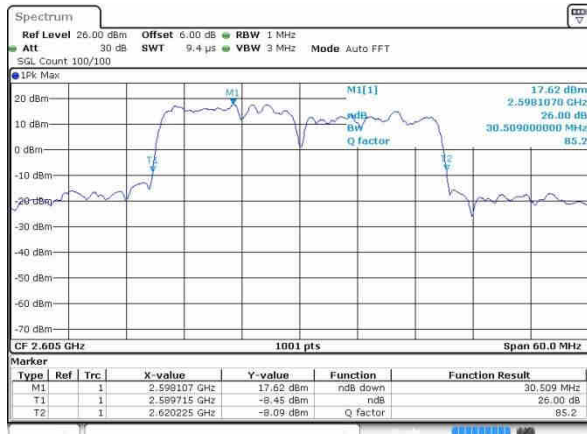
Date 14 JUN 2019 20:11:41

Middle Channel / 20MHz+20MHz



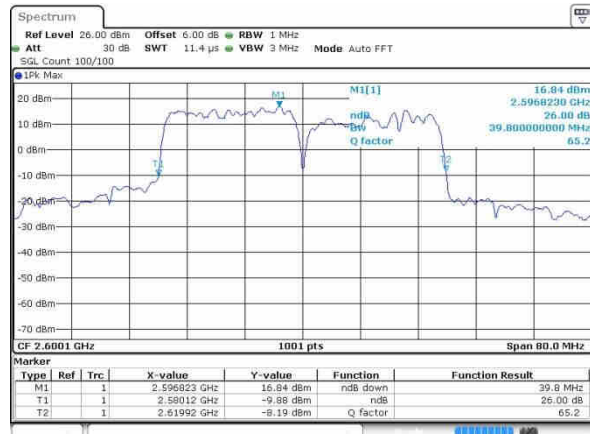
Date 14 JUN 2019 21:00:21

Highest Channel / 15MHz+15MHz



Date 14 JUN 2019 20:14:43

Highest Channel / 20MHz+20MHz



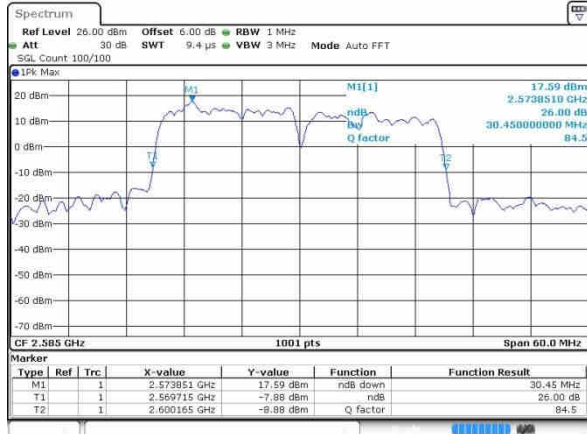
Date 14 JUN 2019 21:01:09



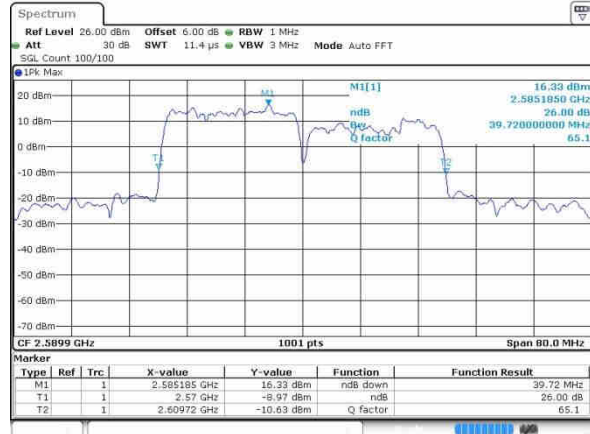
LTE Band 38

16QAM

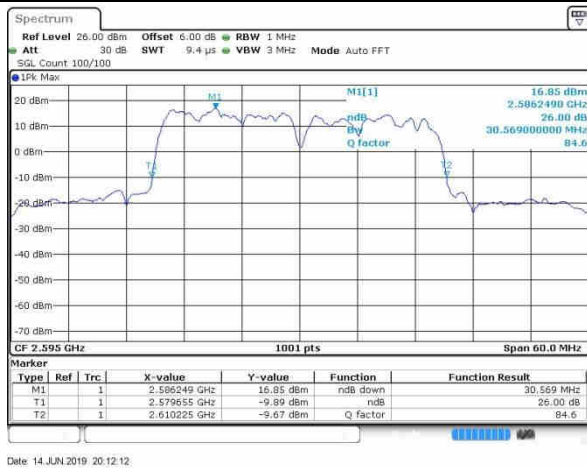
Lowest Channel / 15MHz+15MHz



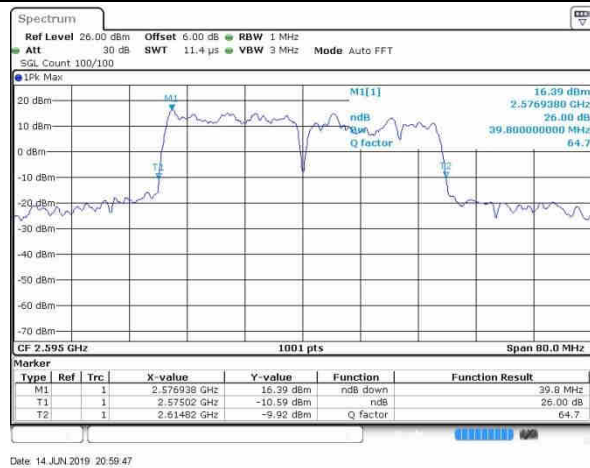
Lowest Channel / 20MHz+20MHz



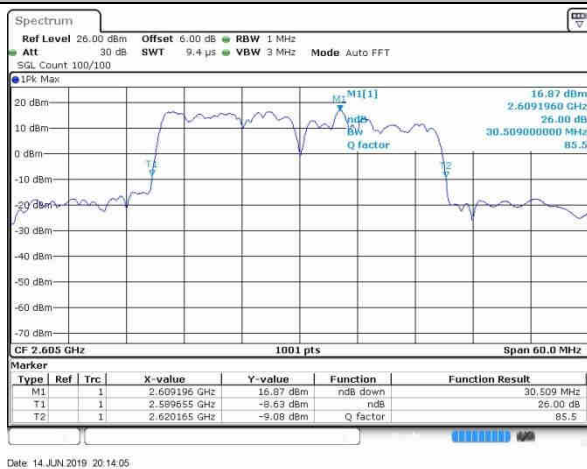
Middle Channel / 15MHz+15MHz



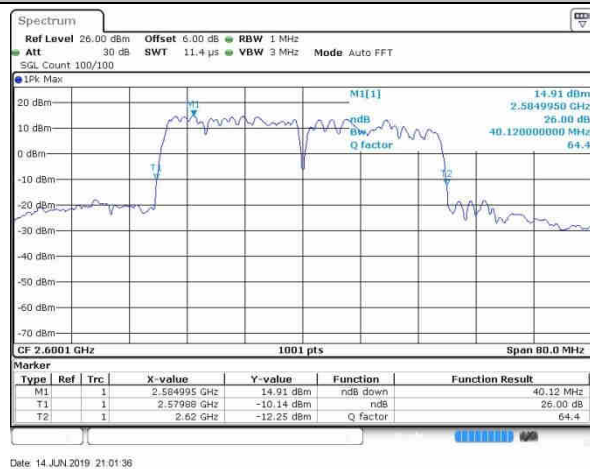
Middle Channel / 20MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 20MHz+20MHz

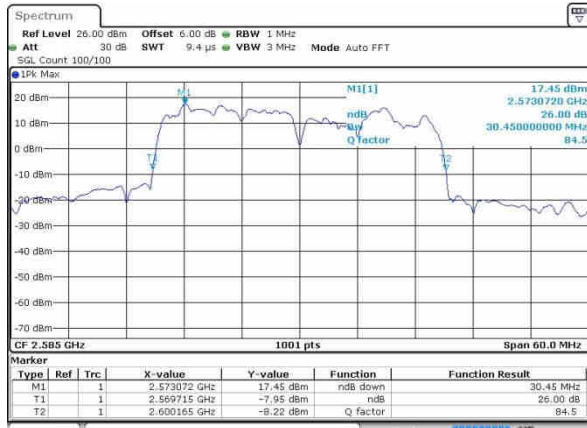




LTE Band 38

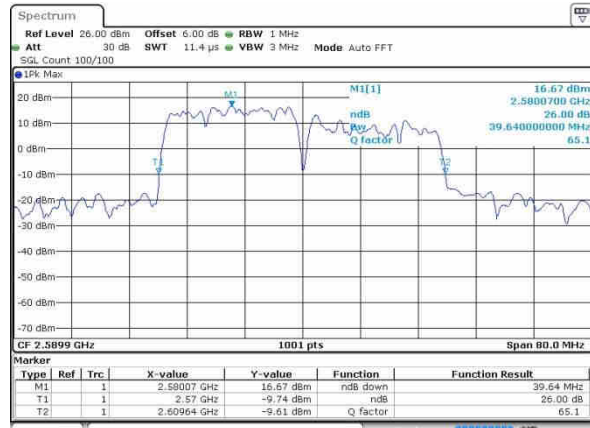
64QAM

Lowest Channel / 15MHz+15MHz



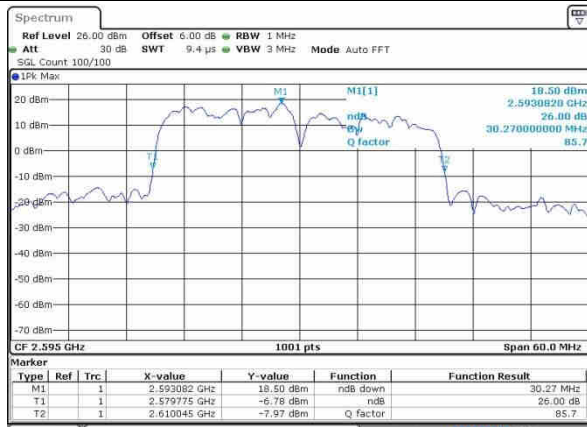
Date 14 JUN 2019 20:06:55

Lowest Channel / 20MHz+20MHz



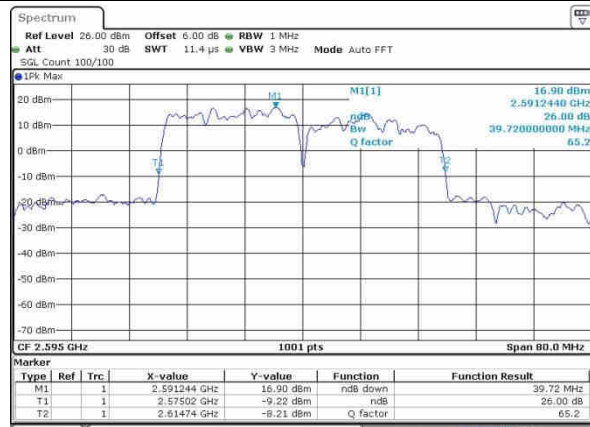
Date 14 JUN 2019 20:58:30

Middle Channel / 15MHz+15MHz



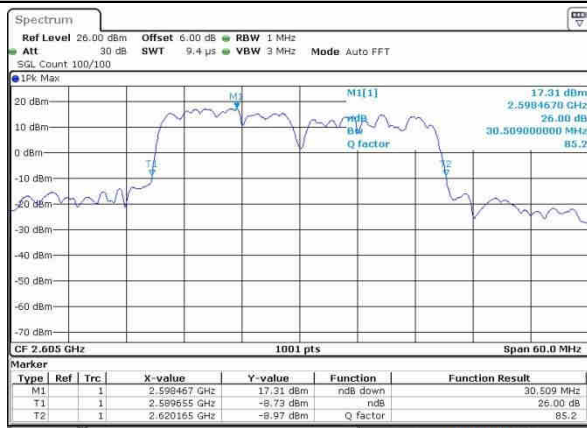
Date 14 JUN 2019 20:12:50

Middle Channel / 20MHz+20MHz



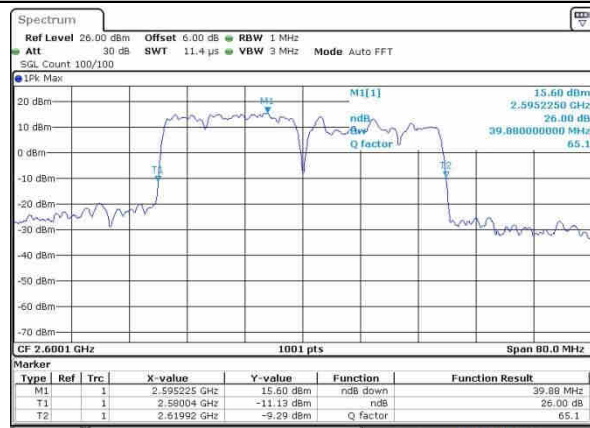
Date 14 JUN 2019 20:59:21

Highest Channel / 15MHz+15MHz



Date 14 JUN 2019 20:13:36

Highest Channel / 20MHz+20MHz



Date 21 JUN 2019 20:44:08

**Occupied Bandwidth**

Mode	LTE Band 2 : 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	1.08	2.72	2.73	4.50	4.49	9.01	9.11	13.43	13.43	18.34	18.26
Middle CH	1.10	1.09	2.72	2.72	4.50	4.49	9.03	9.05	13.49	13.43	18.46	18.30
Highest CH	1.09	1.09	2.72	2.72	4.50	4.49	9.07	8.99	13.37	13.46	18.26	18.30
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.49		9.03		13.43		18.34	
Middle CH	1.09		2.70		4.49		9.01		13.40		18.46	
Highest CH	1.09		2.73		4.49		9.01		13.43		18.18	

Mode	LTE Band 4 : 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	2.72	4.47	4.50	9.01	8.99	13.40	13.40	18.26	18.26
Middle CH	1.09	1.09	2.74	2.73	4.51	4.50	9.05	9.03	13.46	13.46	18.30	18.42
Highest CH	1.09	1.09	2.72	2.71	4.50	4.50	9.05	9.03	13.49	13.49	18.42	18.38
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.49		8.99		13.49		18.38	
Middle CH	1.09		2.72		4.49		8.99		13.43		18.38	
Highest CH	1.09		2.72		4.49		8.97		13.43		18.38	



Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.09	1.10	2.72	2.73	4.49	4.48	9.07	9.03				
Middle CH	1.09	1.09	2.73	2.72	4.50	4.51	9.05	8.95				
Highest CH	1.09	1.09	2.72	2.73	4.50	4.50	9.05	9.07				
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM		64QAM		64QAM		64QAM					
Lowest CH	1.09		2.73		4.51		9.03					
Middle CH	1.09		2.72		4.49		9.03					
Highest CH	1.10		2.72		4.51		9.03					

Mode	LTE Band 7 : 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	4.50	9.03	9.01	13.43	13.43	18.26	18.38
Middle CH	-	-	-	-	4.52	4.49	8.99	9.05	13.43	13.40	18.38	18.50
Highest CH	-	-	-	-	4.49	4.50	9.03	9.03	13.37	13.49	18.38	18.42
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49		9.05		13.52		18.30	
Middle CH	-	-	-	-	4.48		9.03		13.43		18.22	
Highest CH	-	-	-	-	4.48		9.03		13.40		18.34	

Mode	LTE Band 38 : 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					4.47	4.48	9.05	9.03	13.40	13.52	18.34	18.42
Middle CH					4.49	4.48	9.03	9.03	13.46	13.43	18.38	18.34
Highest CH					4.50	4.45	9.01	9.05	13.46	13.40	18.18	18.46
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.48		8.99		13.46		18.54	
Middle CH					4.49		8.99		13.43		18.42	
Highest CH					4.49		8.95		13.49		18.26	



For CA

Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.87		23.43	28.35
Middle CH	27.93		23.18	28.47
Highest CH	27.81		23.43	28.47
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.66	28.29	32.52	37.64
Middle CH	32.73	28.17	32.52	37.56
Highest CH	32.59	28.05	32.52	37.56

Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	28.05		23.28	28.53
Middle CH	27.69		23.53	28.59
Highest CH	28.23		23.23	28.47
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.94	27.93	32.73	37.64
Middle CH	32.03	28.29	32.52	37.56
Highest CH	32.45	27.87	32.80	37.40

Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.99		23.53	28.47
Middle CH	27.81		23.38	28.41
Highest CH	28.05		23.53	28.59
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.94	27.87	32.87	37.40
Middle CH	32.38	28.05	32.52	37.24
Highest CH	32.80	28.11	32.87	37.80



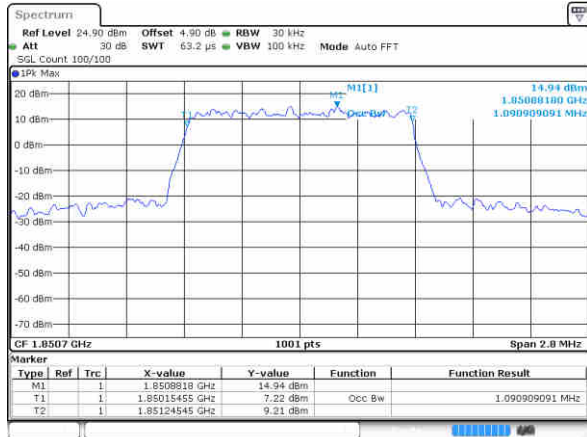
Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	28.41	37.48	28.47	37.72
Middle CH	28.47	37.64	28.59	37.56
Highest CH	28.65	37.56	28.59	37.72

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	28.41	37.56	-	-
Middle CH	28.71	37.88	-	-
Highest CH	28.59	37.48	-	--



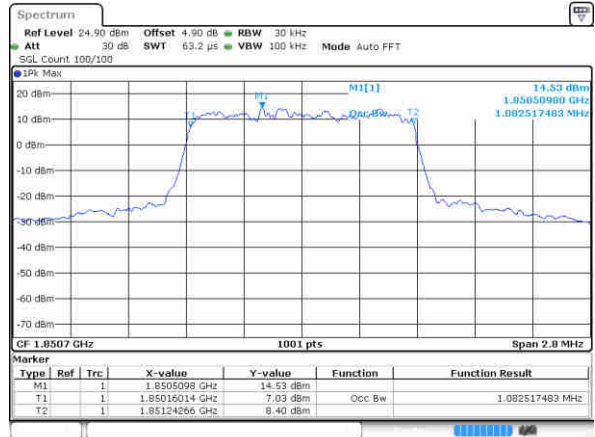
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



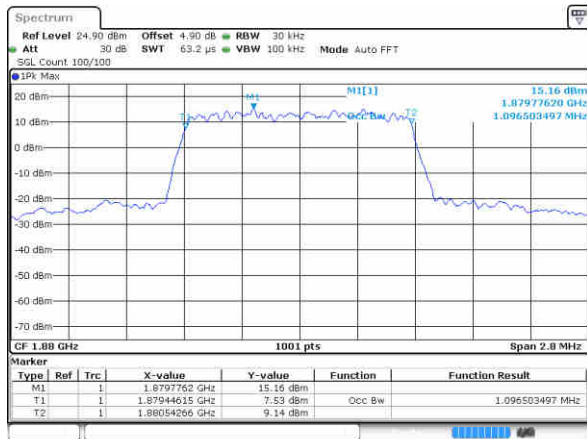
Date: 7 JUN 2019 22:59:19

Lowest Channel / 1.4MHz / 16QAM



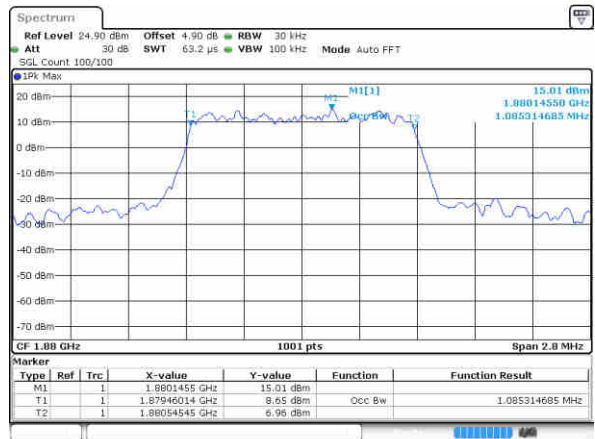
Date: 7 JUN 2019 22:59:28

Middle Channel / 1.4MHz / QPSK



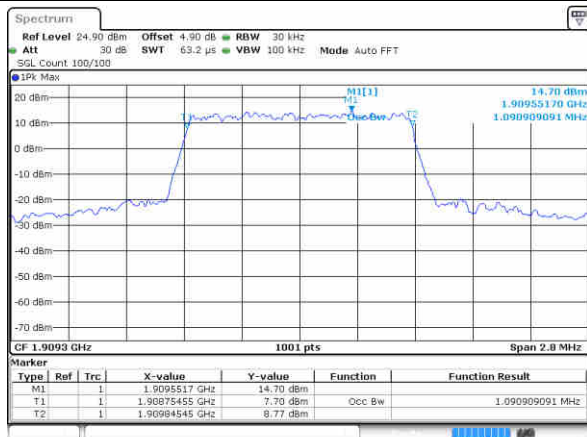
Date: 7 JUN 2019 23:06:18

Middle Channel / 1.4MHz / 16QAM



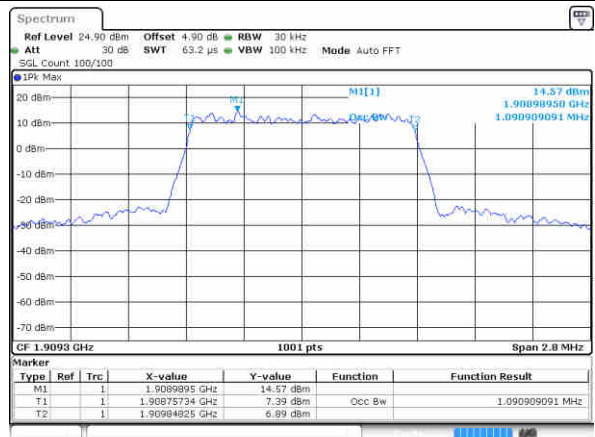
Date: 7 JUN 2019 23:06:28

Highest Channel / 1.4MHz / QPSK



Date: 7 JUN 2019 23:08:47

Highest Channel / 1.4MHz / 16QAM

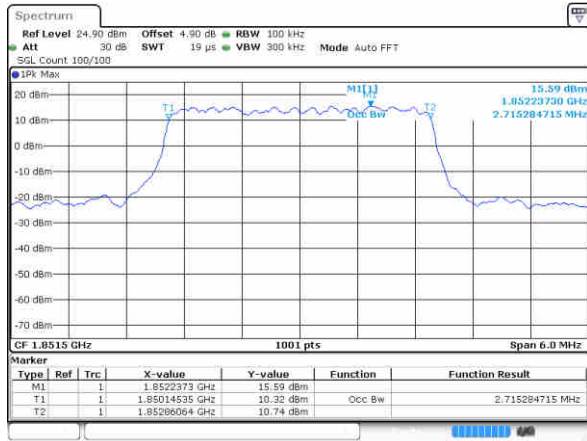


Date: 7 JUN 2019 23:08:57



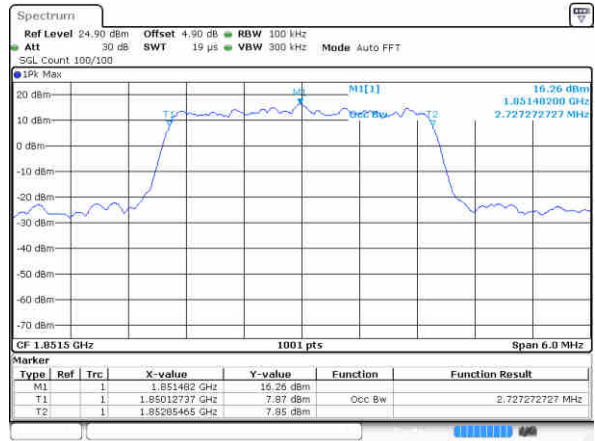
LTE Band 2

Lowest Channel / 3MHz / QPSK



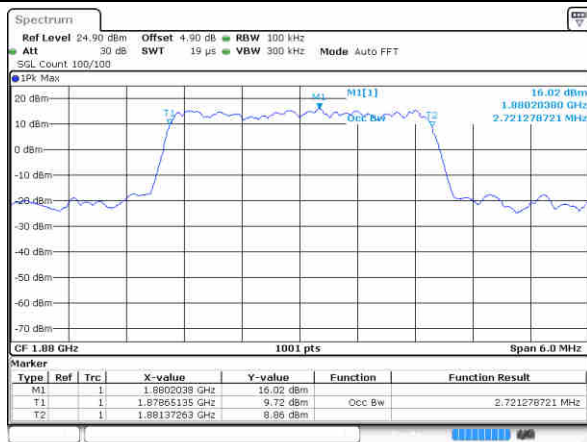
Date: 7 JUN 2019 23:15:46

Lowest Channel / 3MHz / 16QAM



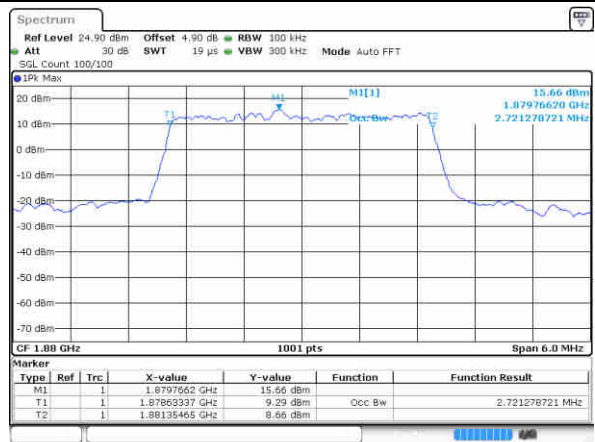
Date: 7 JUN 2019 23:15:55

Middle Channel / 3MHz / QPSK



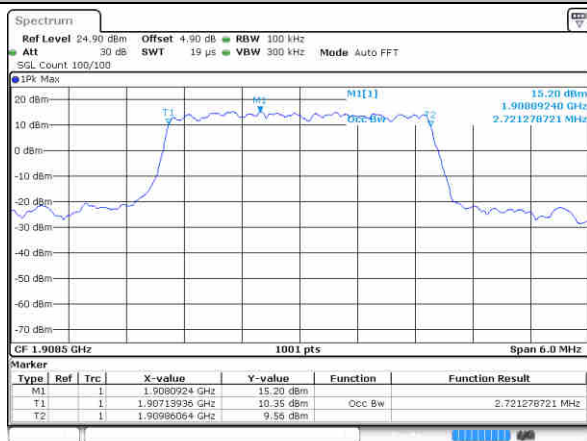
Date: 7 JUN 2019 23:22:44

Middle Channel / 3MHz / 16QAM



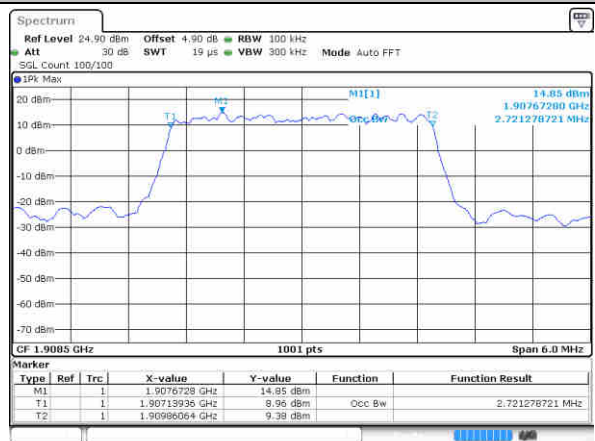
Date: 7 JUN 2019 23:22:54

Highest Channel / 3MHz / QPSK



Date: 7 JUN 2019 23:25:13

Highest Channel / 3MHz / 16QAM

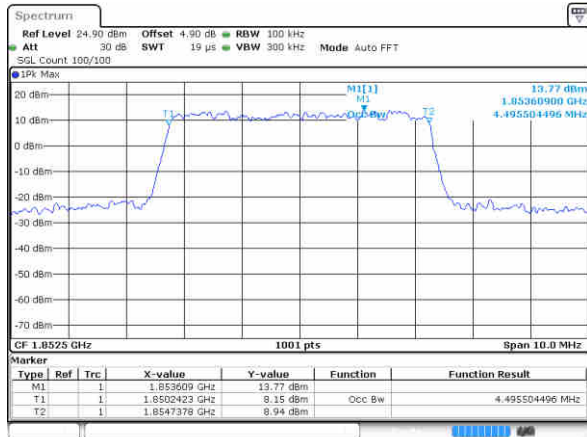


Date: 7 JUN 2019 23:25:23



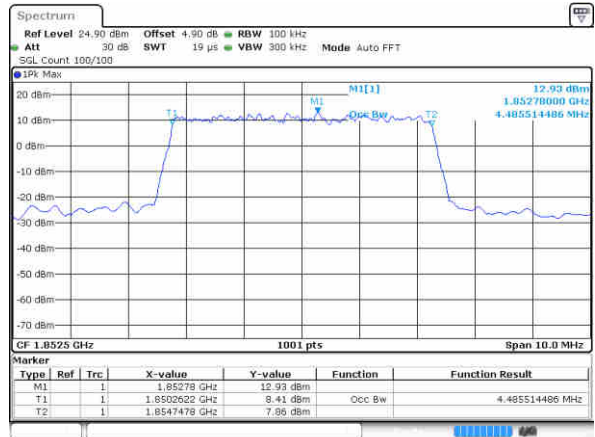
LTE Band 2

Lowest Channel / 5MHz / QPSK



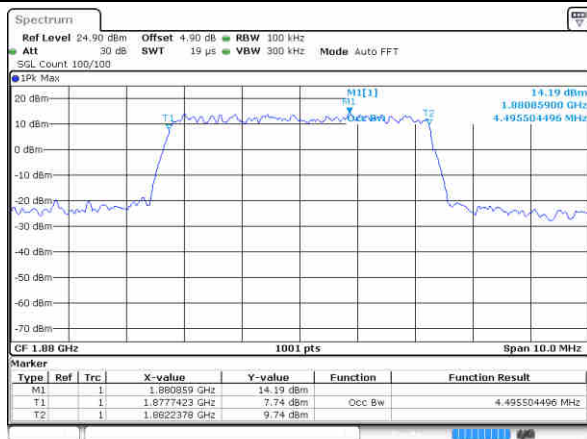
Date: 7 JUN 2019 23:32:12

Lowest Channel / 5MHz / 16QAM



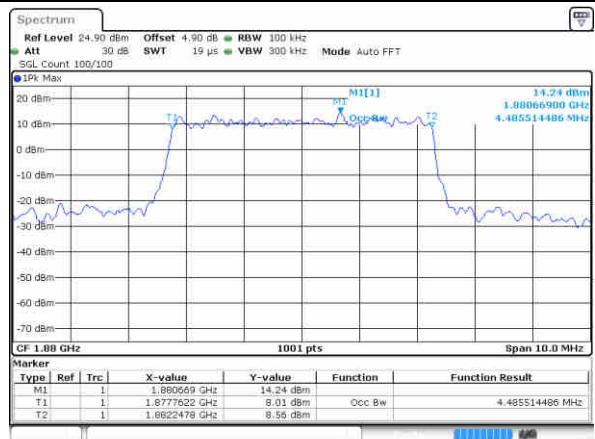
Date: 7 JUN 2019 23:32:22

Middle Channel / 5MHz / QPSK



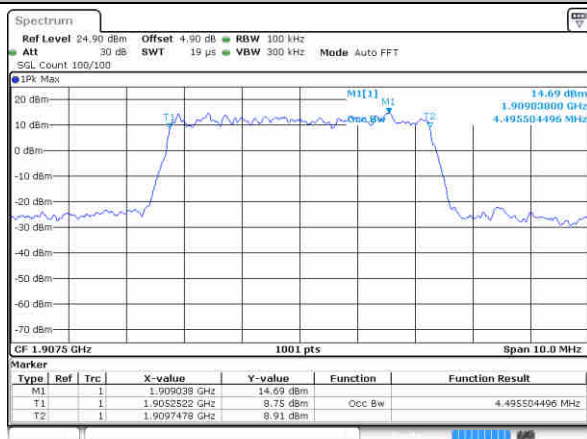
Date: 7 JUN 2019 23:39:10

Middle Channel / 5MHz / 16QAM



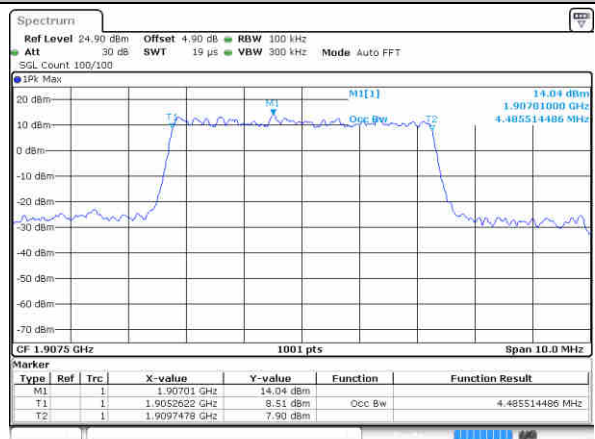
Date: 7 JUN 2019 23:39:20

Highest Channel / 5MHz / QPSK



Date: 7 JUN 2019 23:41:39

Highest Channel / 5MHz / 16QAM

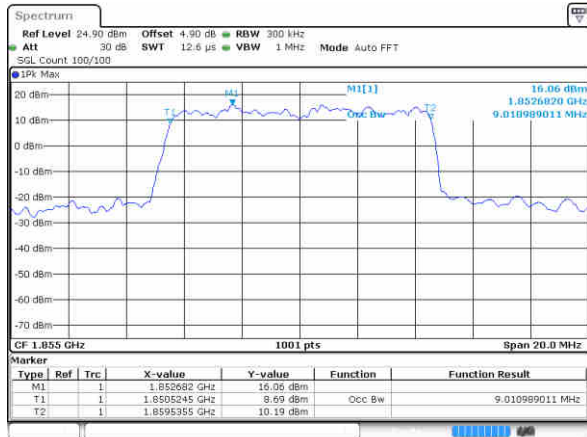


Date: 7 JUN 2019 23:41:49

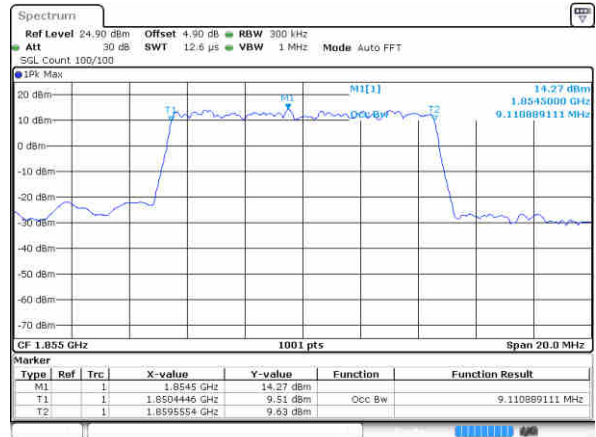


LTE Band 2

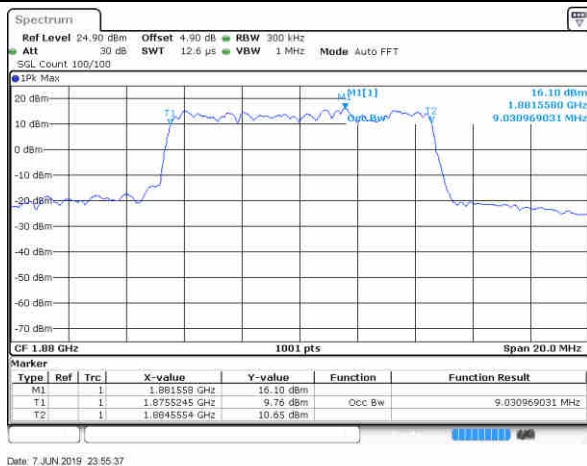
Lowest Channel / 10MHz / QPSK



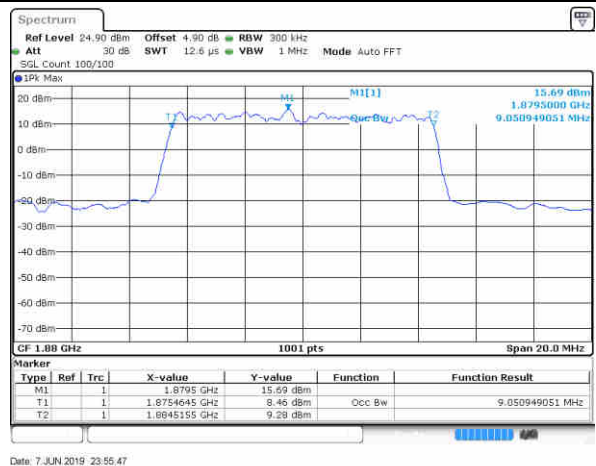
Lowest Channel / 10MHz / 16QAM



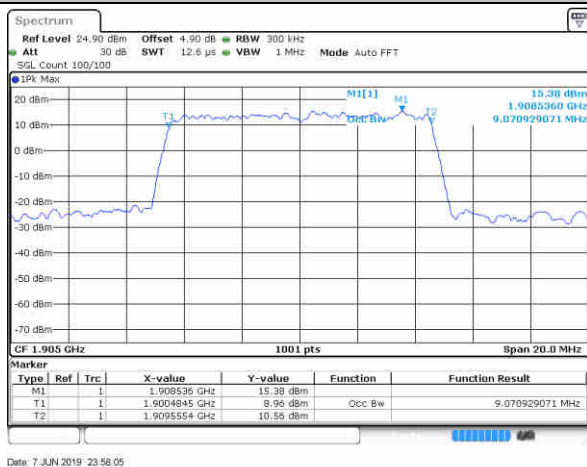
Middle Channel / 10MHz / QPSK



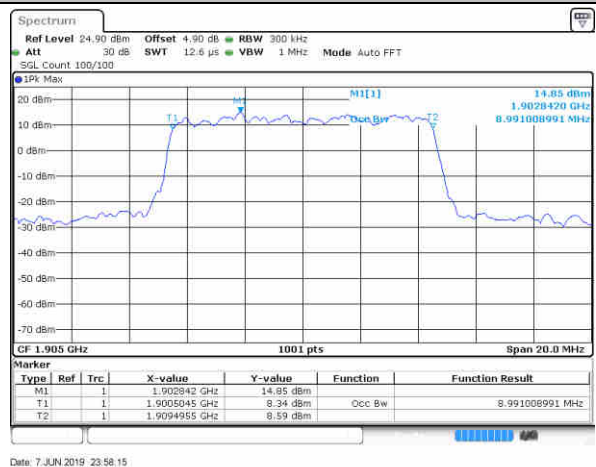
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



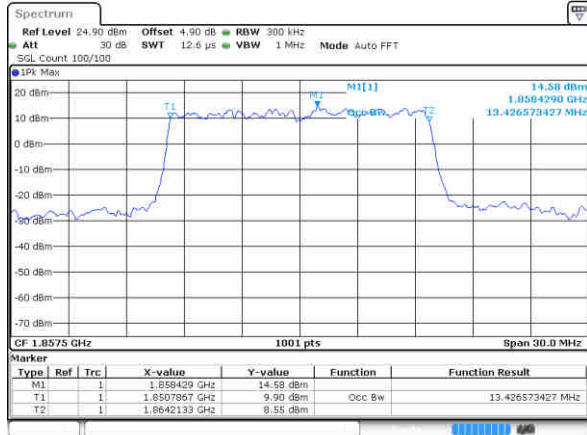
Highest Channel / 10MHz / 16QAM



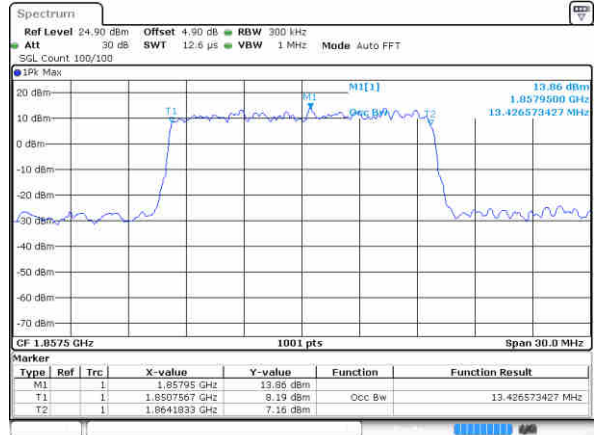


LTE Band 2

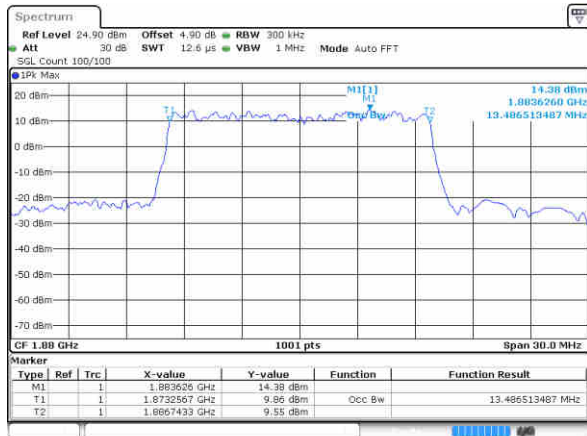
Lowest Channel / 15MHz / QPSK



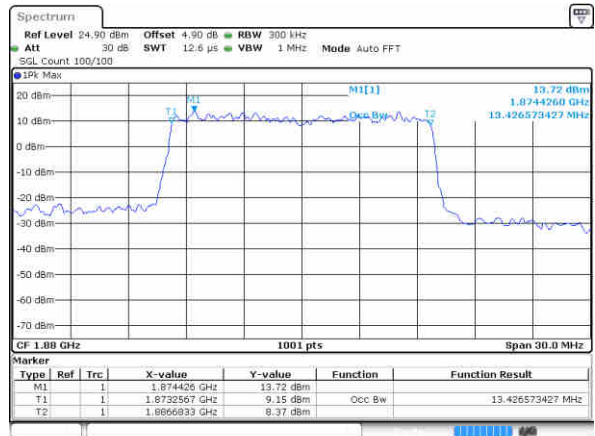
Lowest Channel / 15MHz / 16QAM



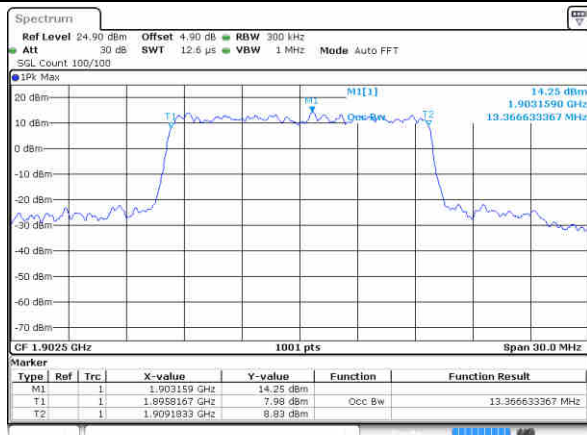
Middle Channel / 15MHz / QPSK



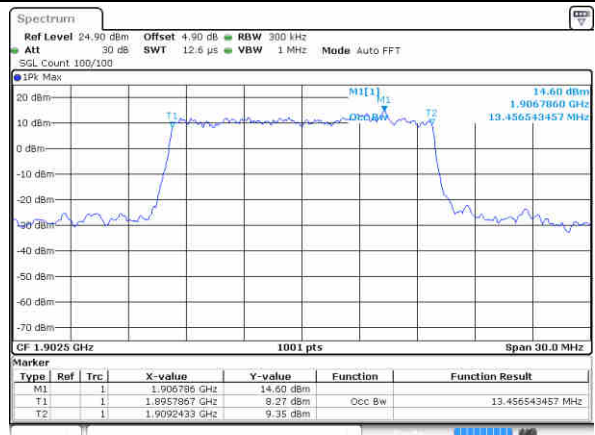
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



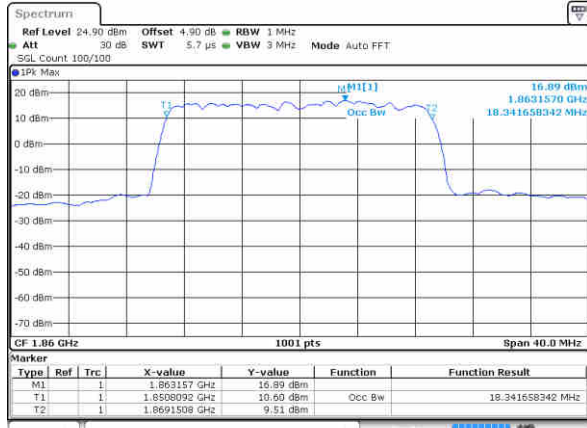
Highest Channel / 15MHz / 16QAM



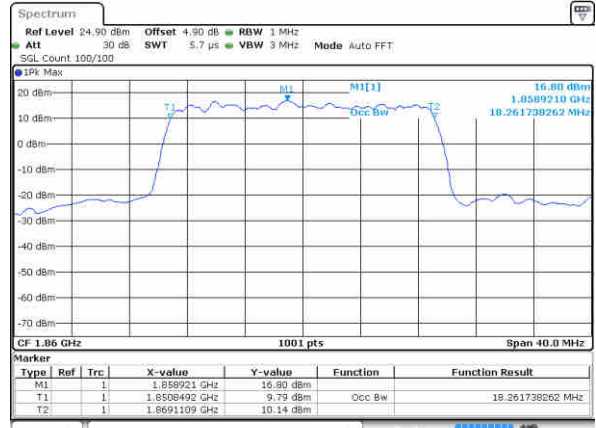


LTE Band 2

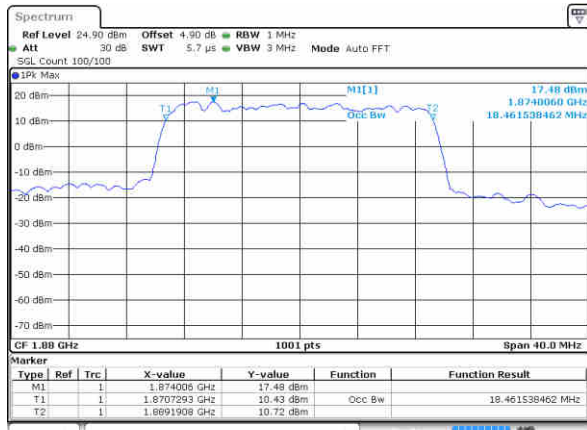
Lowest Channel / 20MHz / QPSK



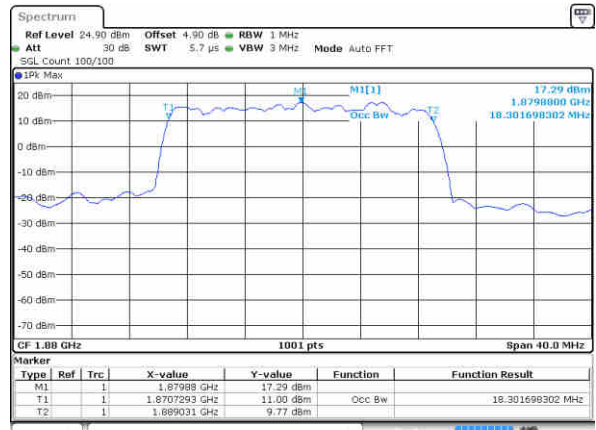
Lowest Channel / 20MHz / 16QAM



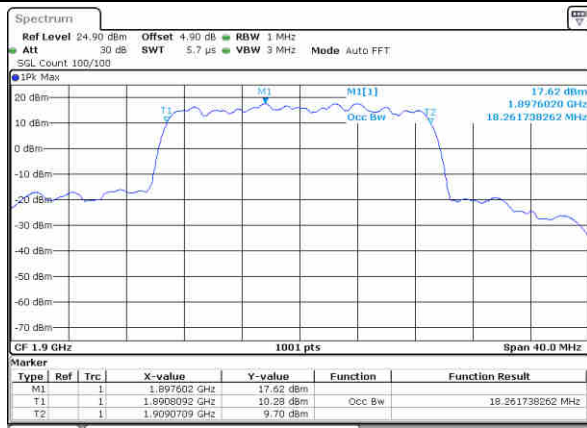
Middle Channel / 20MHz / QPSK



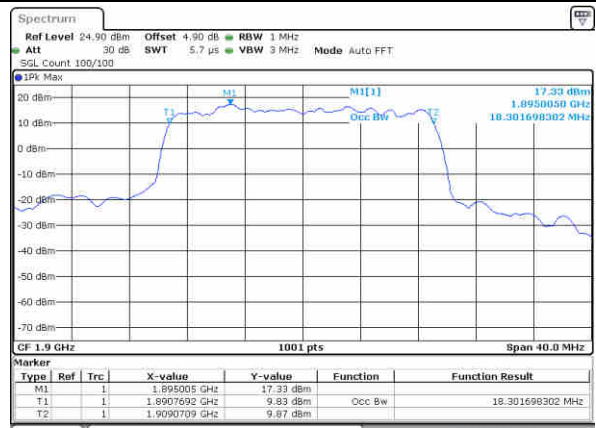
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



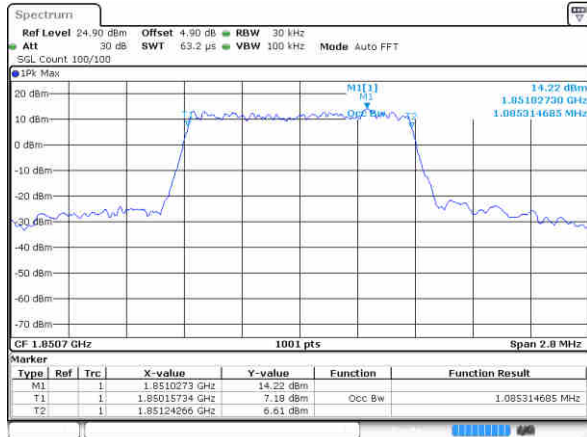
Highest Channel / 20MHz / 16QAM



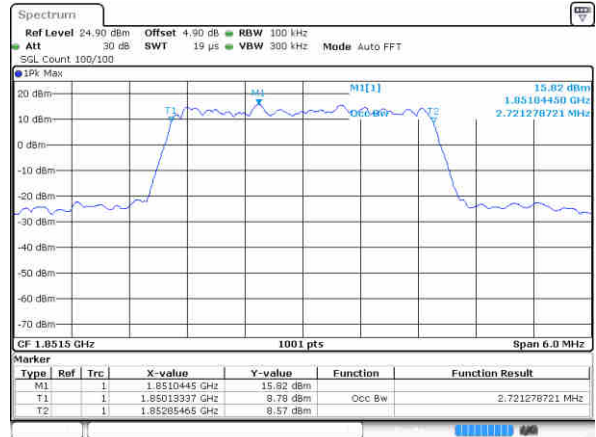


LTE Band 2

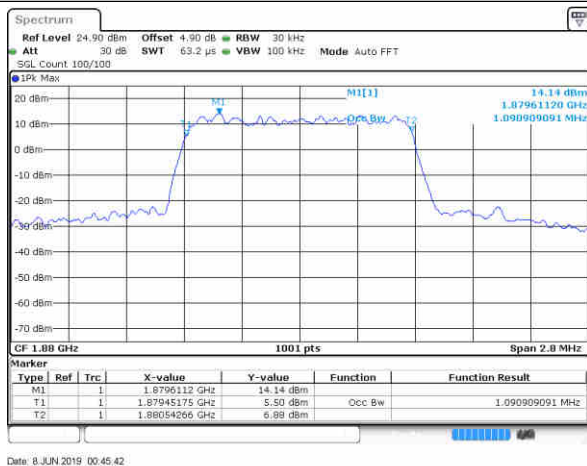
Lowest Channel / 1.4MHz / 64QAM



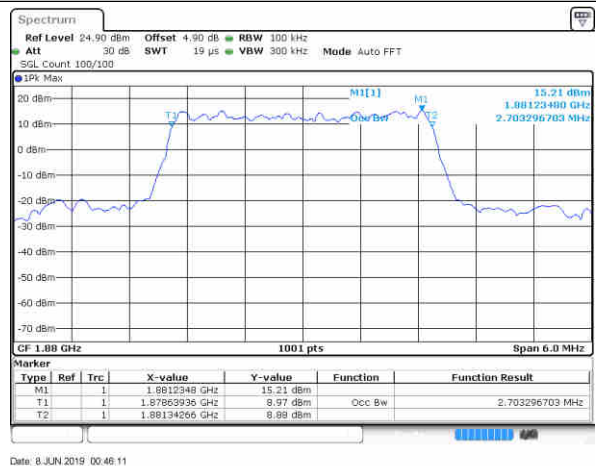
Lowest Channel / 3MHz / 64QAM



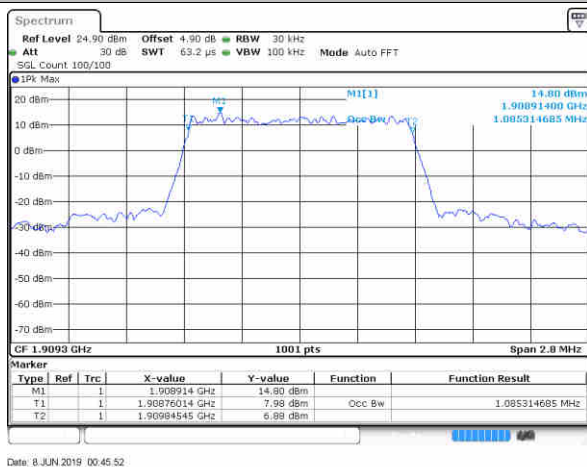
Middle Channel / 1.4MHz / 64QAM



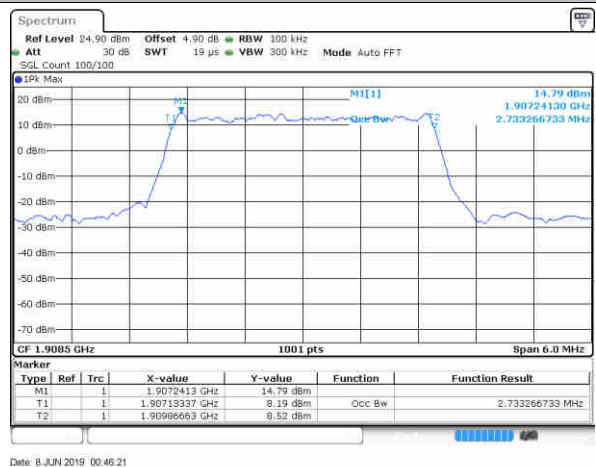
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



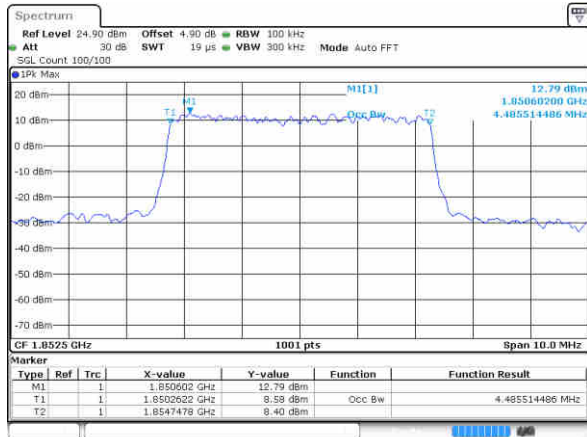
Highest Channel / 3MHz / 64QAM



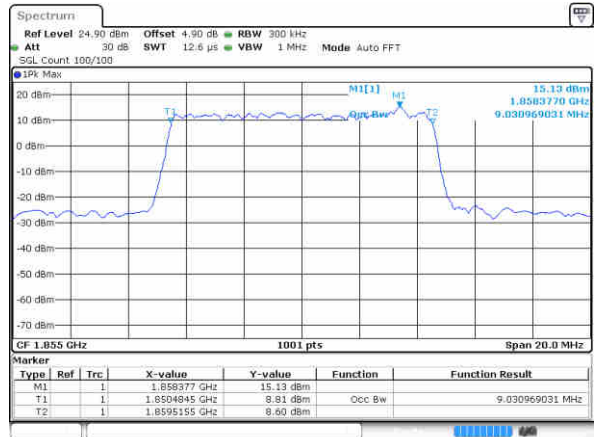


LTE Band 2

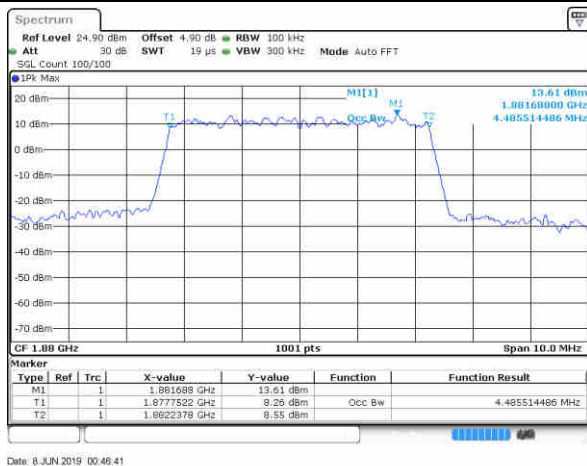
Lowest Channel / 5MHz / 64QAM



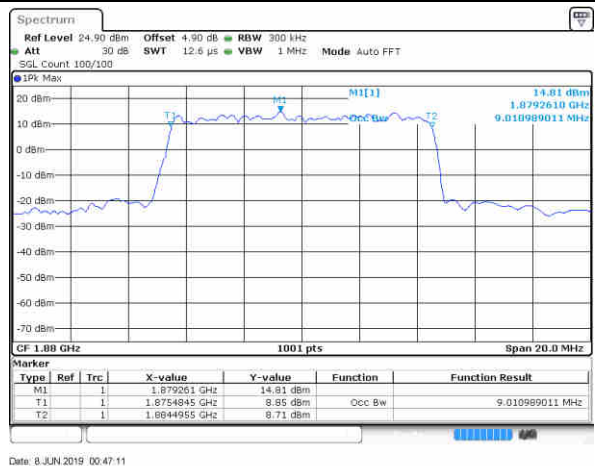
Lowest Channel / 10MHz / 64QAM



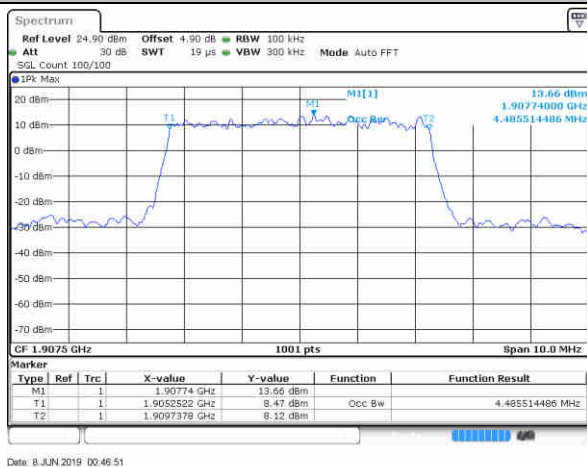
Middle Channel / 5MHz / 64QAM



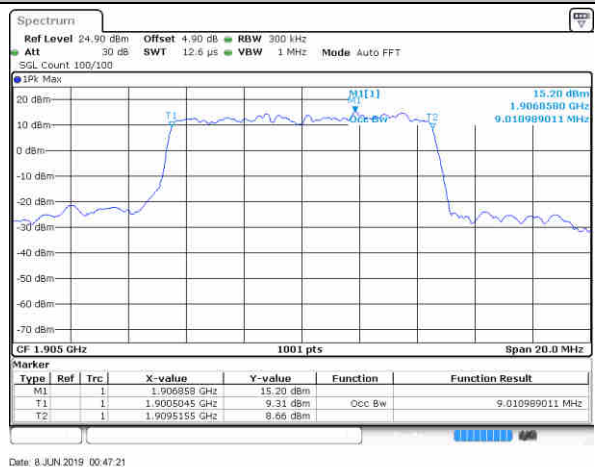
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



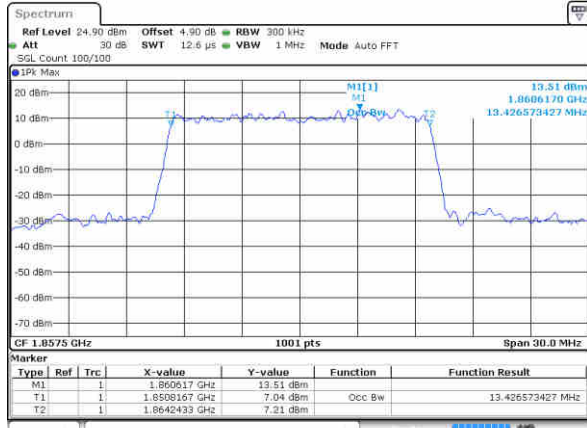
Highest Channel / 10MHz / 64QAM



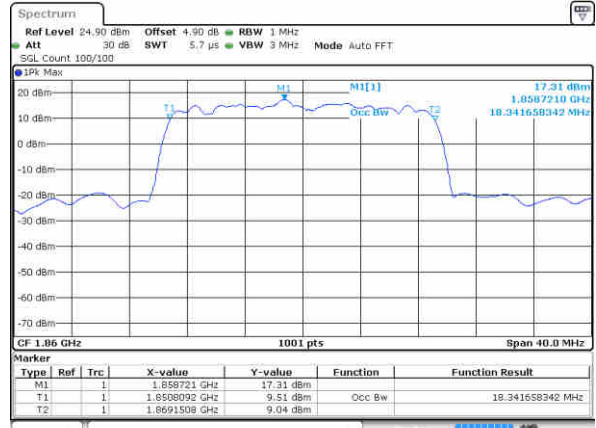


LTE Band 2

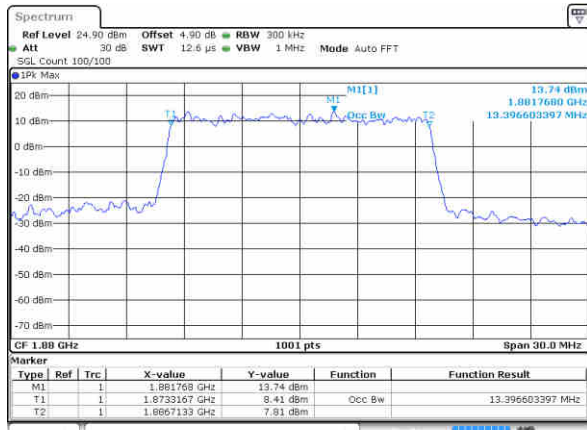
Lowest Channel / 15MHz / 64QAM



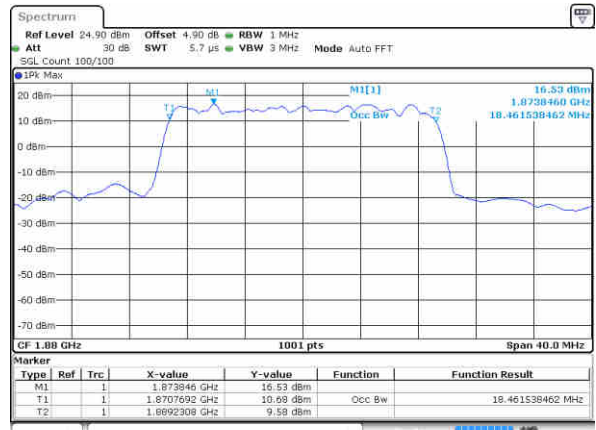
Lowest Channel / 20MHz / 64QAM



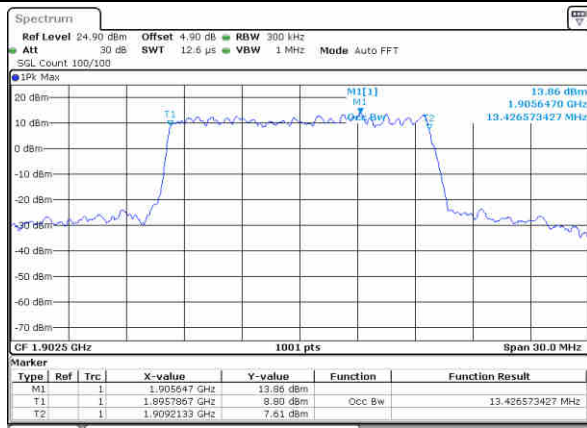
Middle Channel / 15MHz / 64QAM



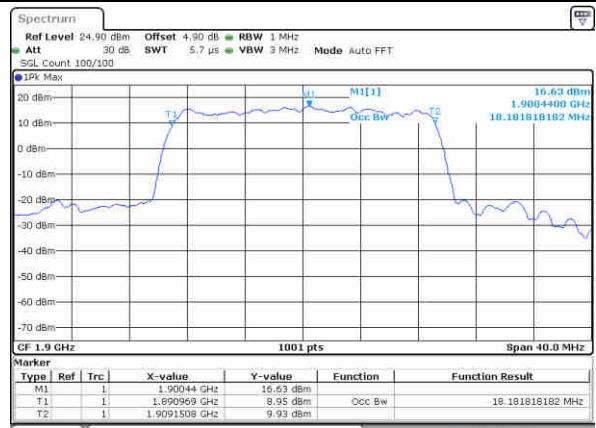
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



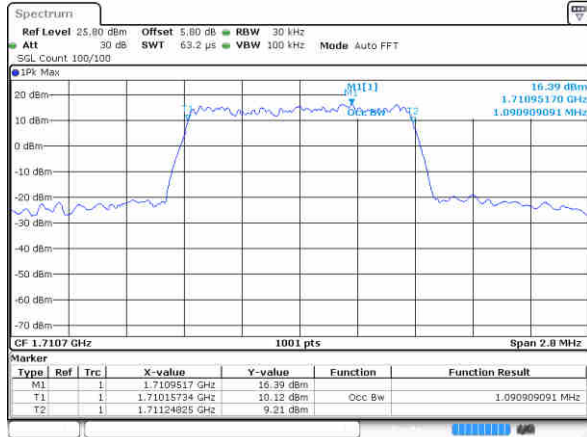
Highest Channel / 20MHz / 64QAM



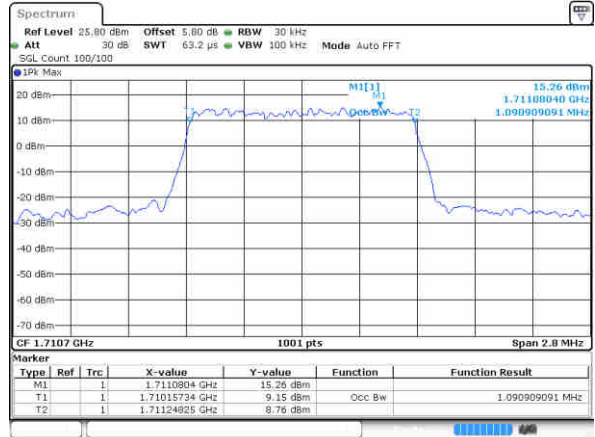


LTE Band 4

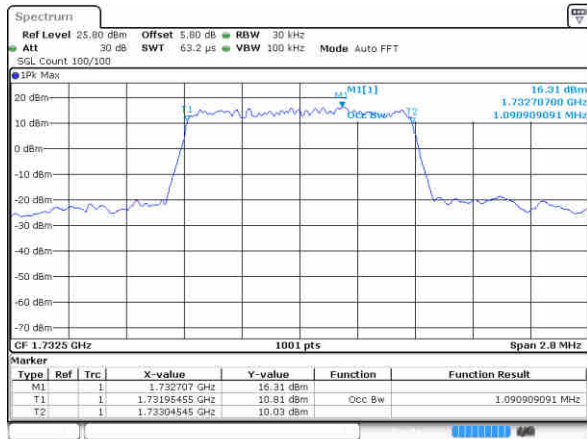
Lowest Channel / 1.4MHz / QPSK



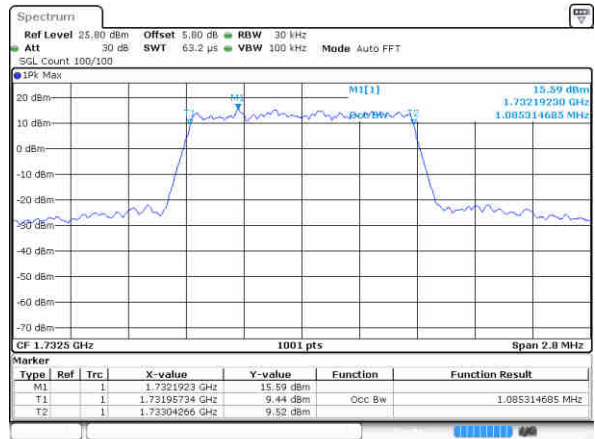
Lowest Channel / 1.4MHz / 16QAM



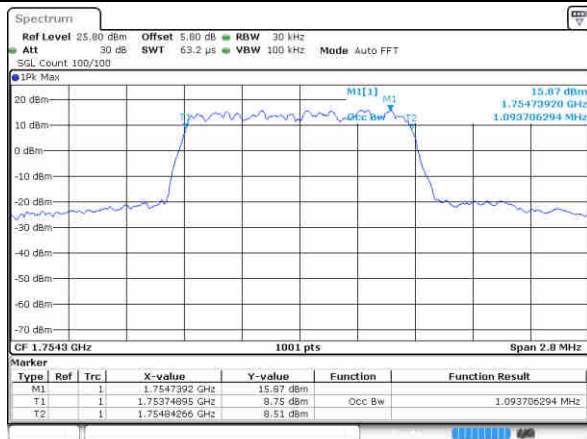
Middle Channel / 1.4MHz / QPSK



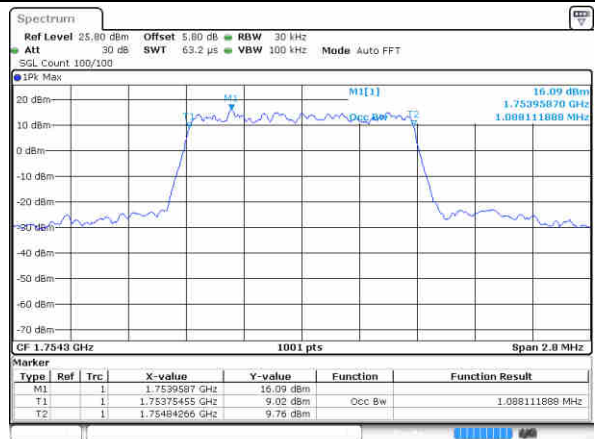
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



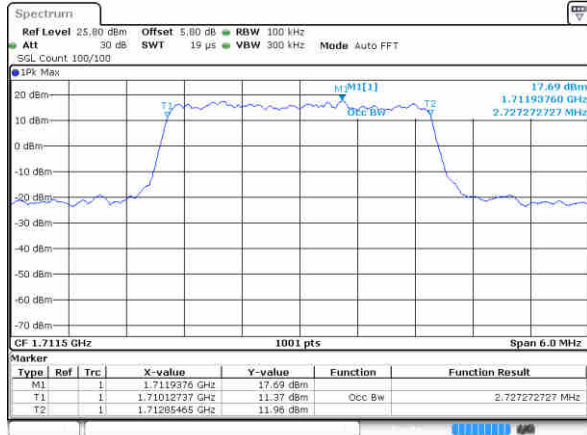
Highest Channel / 1.4MHz / 16QAM



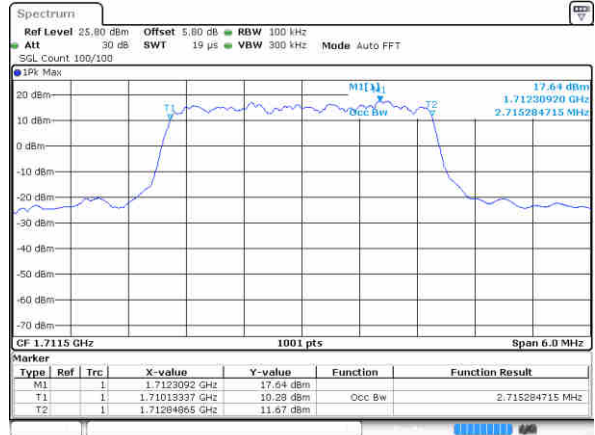


LTE Band 4

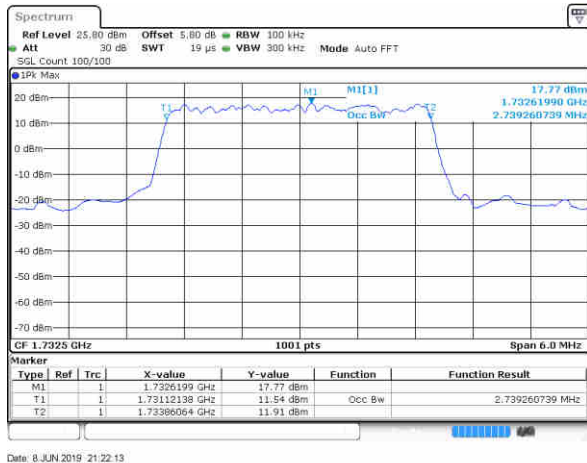
Lowest Channel / 3MHz / QPSK



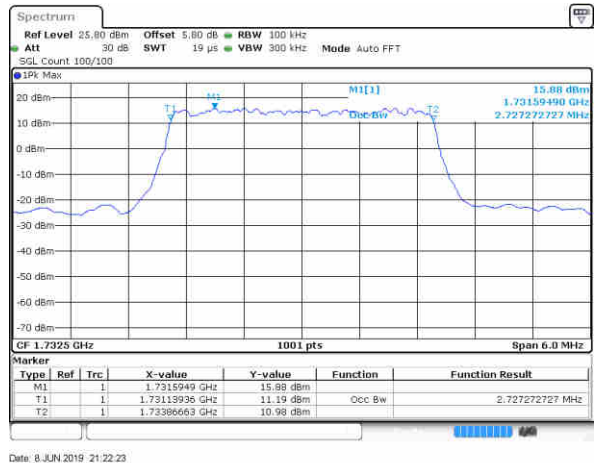
Lowest Channel / 3MHz / 16QAM



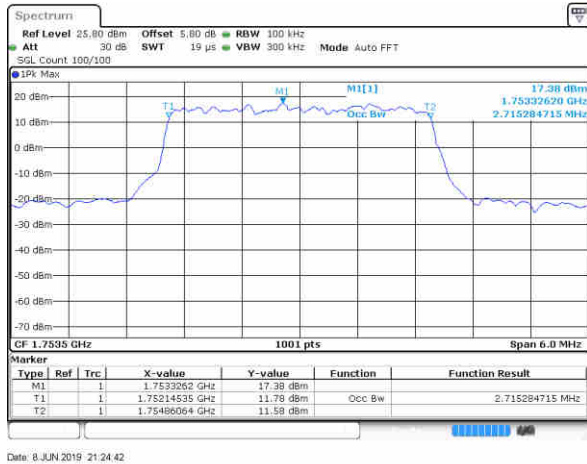
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM

