

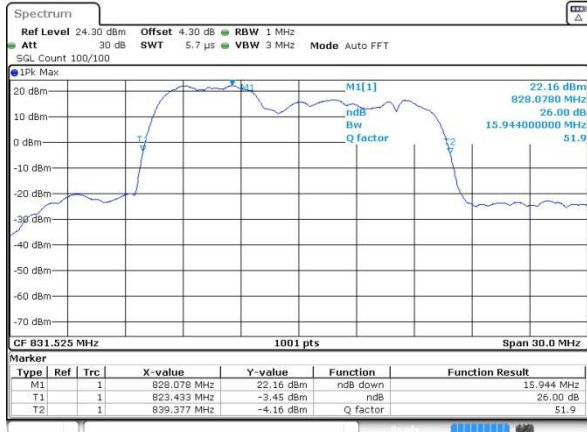


For CA:

LTE Band 5

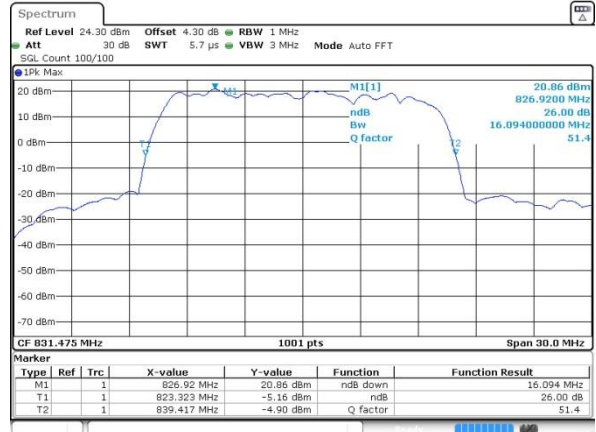
QPSK

Lowest Channel / 5MHz+10MHz



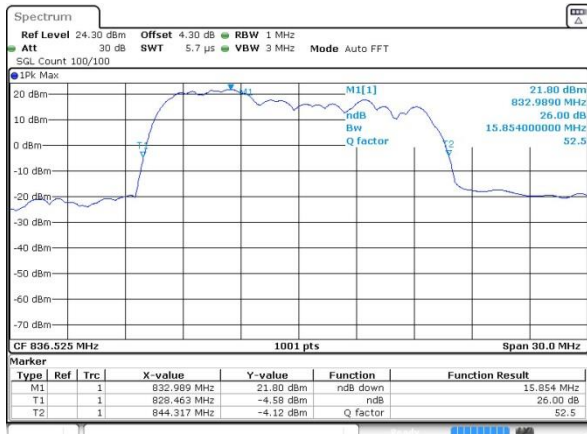
Date: 26 FEB 2019 16:32:49

Lowest Channel / 10MHz+5MHz



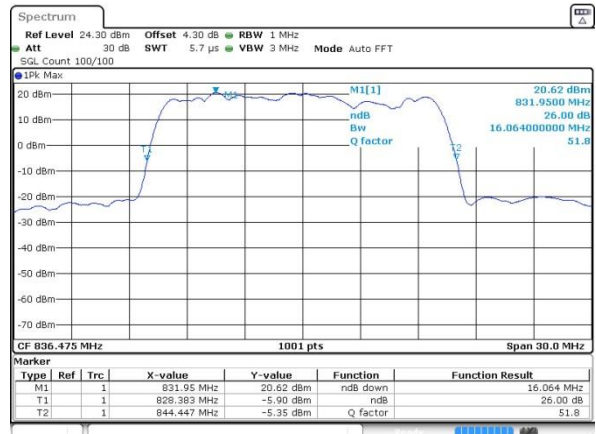
Date: 26 FEB 2019 16:38:54

Middle Channel / 5MHz+10MHz



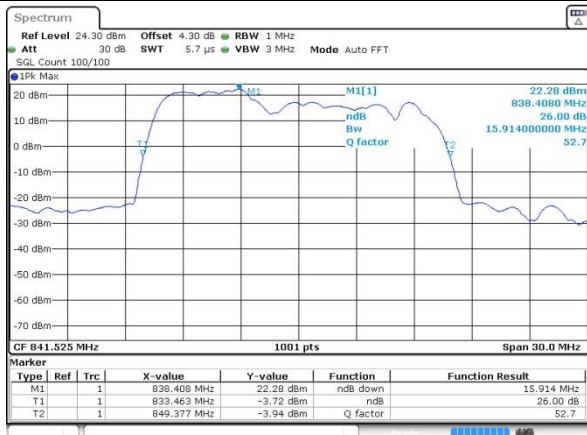
Date: 26 FEB 2019 16:35:13

Middle Channel / 10MHz+5MHz



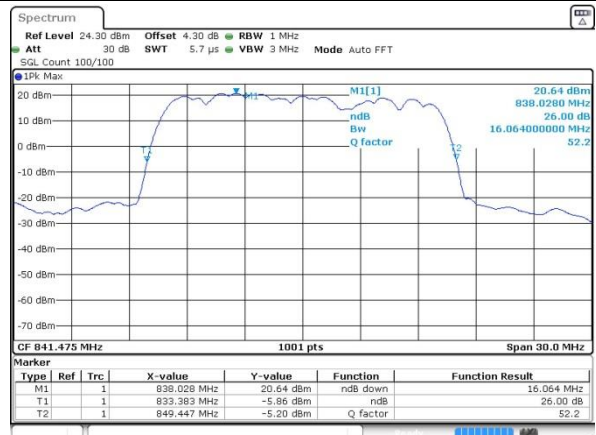
Date: 26 FEB 2019 16:40:54

Highest Channel / 5MHz+10MHz



Date: 26 FEB 2019 16:36:10

Highest Channel / 10MHz+5MHz



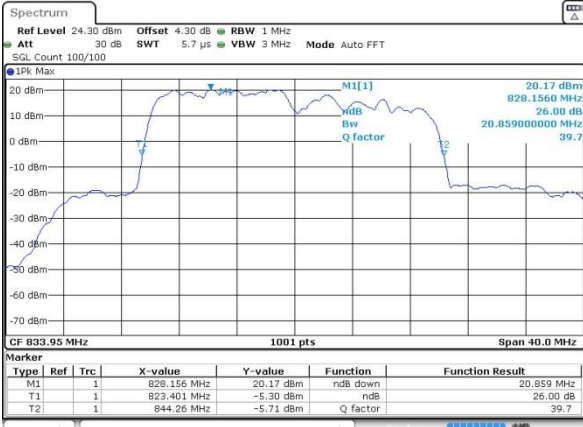
Date: 26 FEB 2019 16:41:30



LTE Band 5

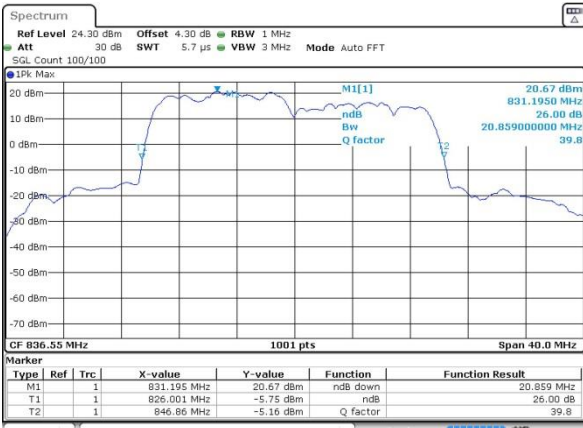
QPSK

Lowest Channel / 10MHz+10MHz



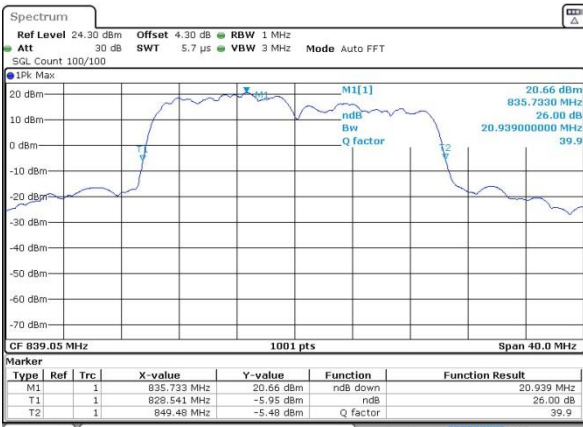
Date: 26 FEB 2019 16:44:27

Middle Channel / 10MHz+10MHz



Date: 26 FEB 2019 16:46:27

Highest Channel / 10MHz+10MHz



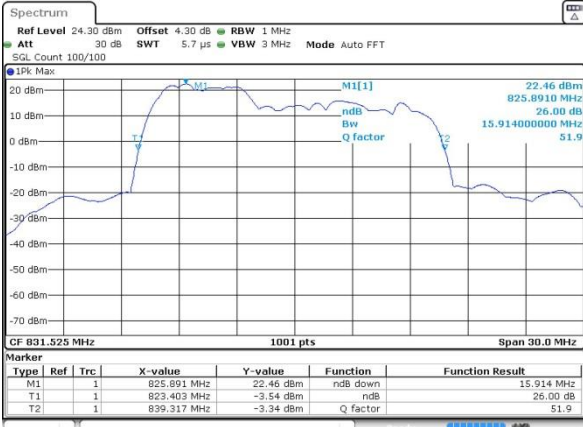
Date: 26 FEB 2019 16:47:08



LTE Band 5

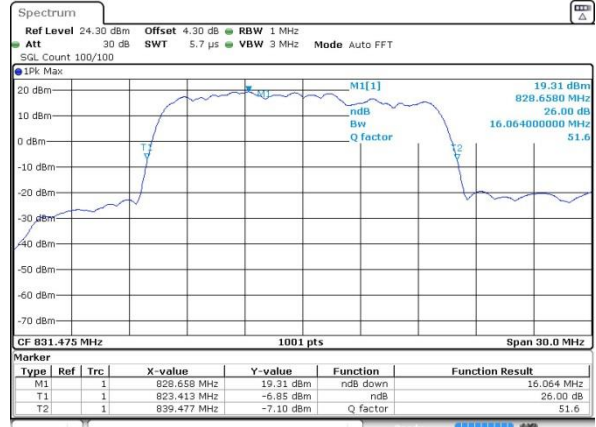
16QAM

Lowest Channel / 5MHz+10MHz



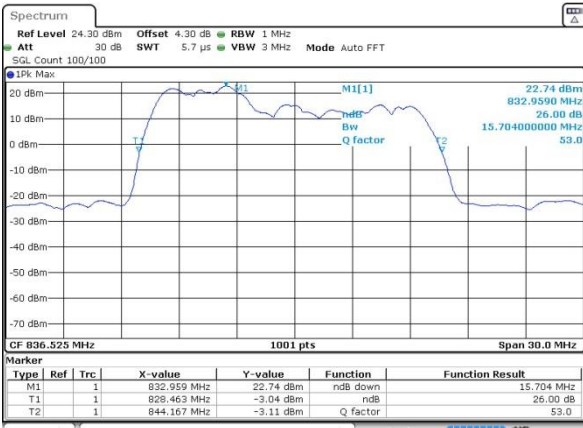
Date: 26 FEB 2019 16:33:13

Lowest Channel / 10MHz+5MHz



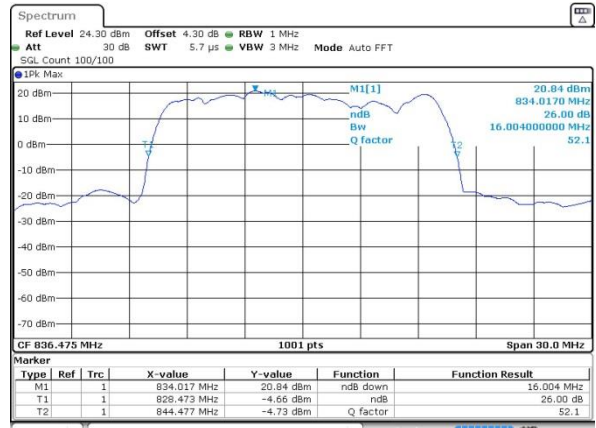
Date: 26 FEB 2019 16:39:15

Middle Channel / 5MHz+10MHz



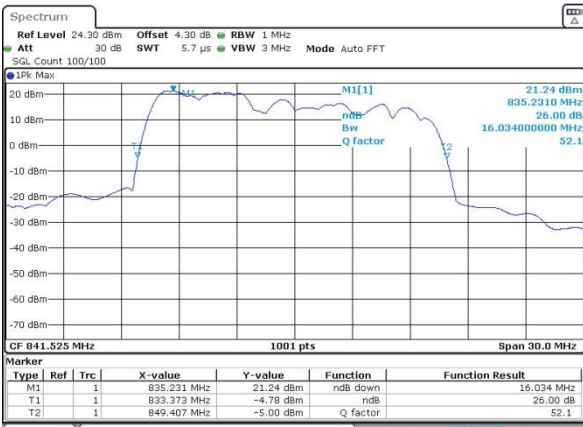
Date: 26 FEB 2019 16:34:47

Middle Channel / 10MHz+5MHz



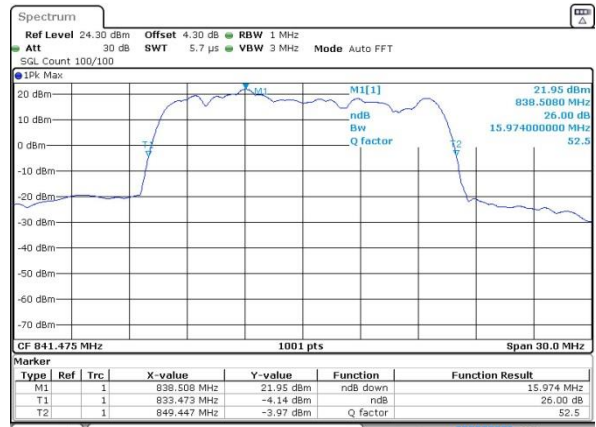
Date: 26 FEB 2019 16:40:34

Highest Channel / 5MHz+10MHz



Date: 26 FEB 2019 16:36:35

Highest Channel / 10MHz+5MHz



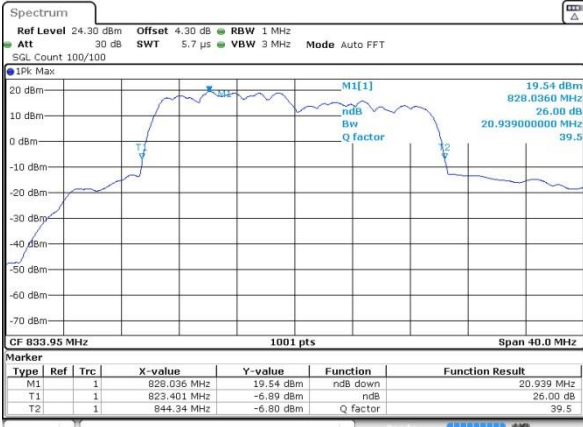
Date: 26 FEB 2019 16:41:53



LTE Band 5

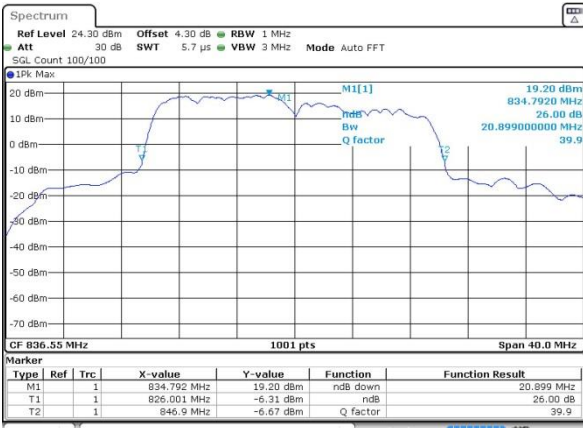
16QAM

Lowest Channel / 10MHz+10MHz



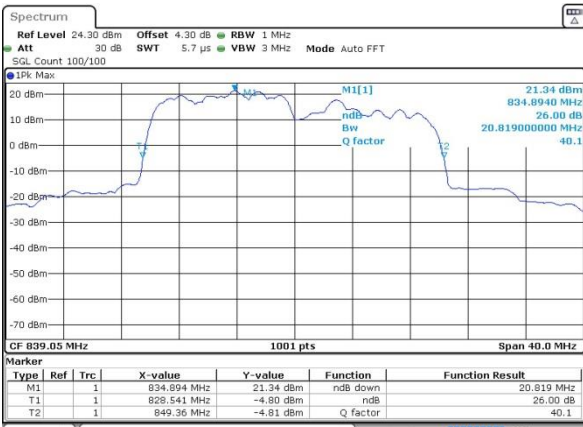
Date: 26 FEB 2019 16:44:47

Middle Channel / 10MHz+10MHz



Date: 26 FEB 2019 16:46:05

Highest Channel / 10MHz+10MHz



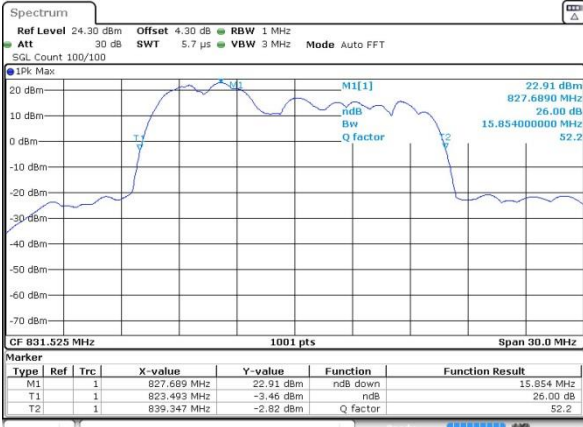
Date: 26 FEB 2019 16:47:28



LTE Band 5

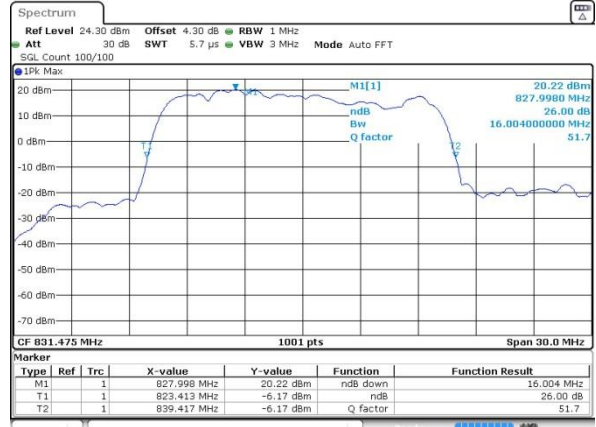
64QAM

Lowest Channel / 5MHz+10MHz



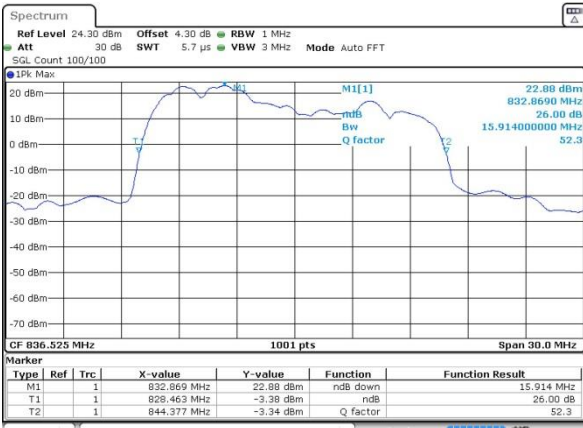
Date: 26 FEB 2019 16:33:42

Lowest Channel / 10MHz+5MHz



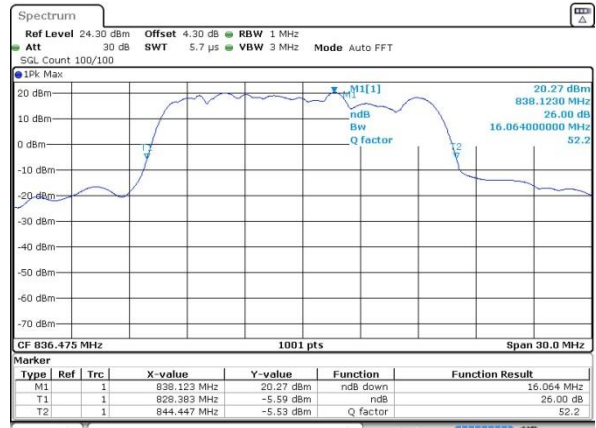
Date: 26 FEB 2019 16:39:36

Middle Channel / 5MHz+10MHz



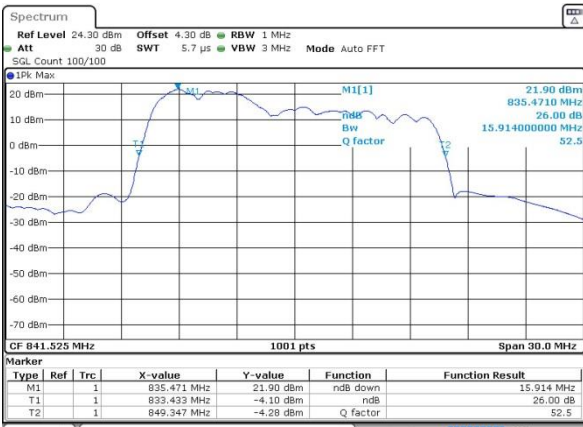
Date: 26 FEB 2019 16:34:25

Middle Channel / 10MHz+5MHz



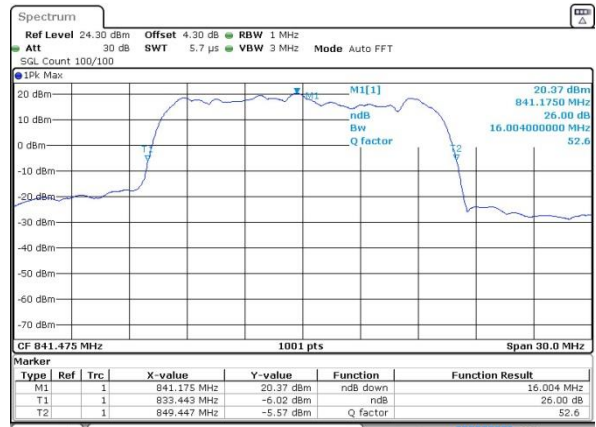
Date: 26 FEB 2019 16:40:14

Highest Channel / 5MHz+10MHz



Date: 26 FEB 2019 16:36:58

Highest Channel / 10MHz+5MHz



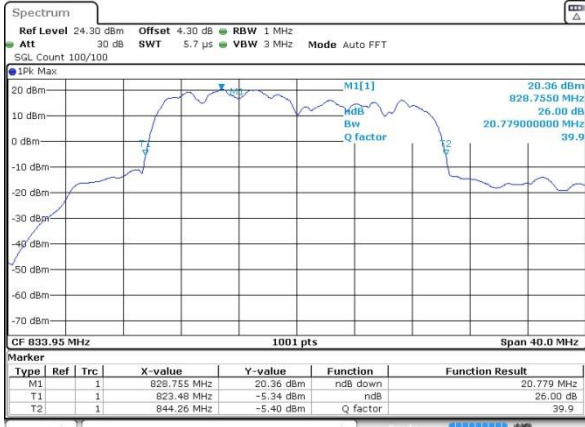
Date: 26 FEB 2019 16:42:31



LTE Band 5

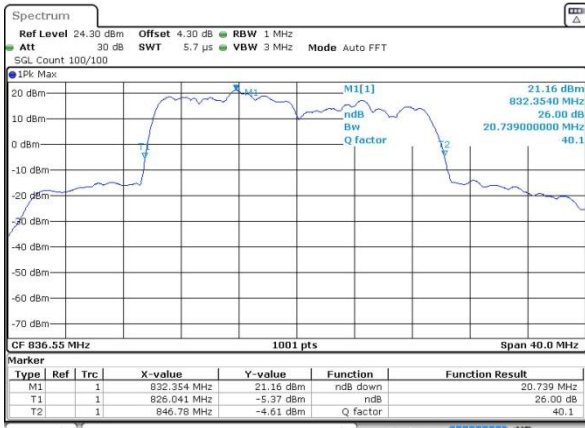
64QAM

Lowest Channel / 10MHz+10MHz



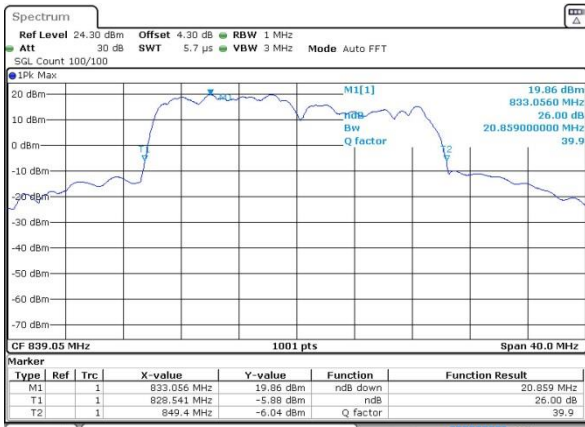
Date: 26 FEB 2019 16:45:07

Middle Channel / 10MHz+10MHz



Date: 26 FEB 2019 16:45:43

Highest Channel / 10MHz+10MHz



Date: 26 FEB 2019 16:47:49



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	1.09	2.73	2.72	4.51	4.48	9.05	9.05	13.43	13.46	18.30	18.34
Middle CH	1.10	1.09	2.72	2.73	4.51	4.49	9.03	9.05	13.43	13.43	18.34	18.22
Highest CH	1.09	1.09	2.73	2.71	4.49	4.49	9.03	9.01	13.40	13.46	18.30	18.34

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		4.48		9.03		13.46		18.22	
Middle CH	1.09		2.72		4.49		9.03		13.46		18.22	
Highest CH	1.09		2.72		4.49		9.05		13.43		18.22	

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.7	4.49	4.49	9.07	9.03				
Middle CH	1.1	1.08	2.72	2.75	4.49	4.49	9.01	9.01				
Highest CH	1.1	1.09	2.72	2.71	4.49	4.5	9.05	9.03				

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.73		4.49		9.03					
Middle CH	1.09		2.72		4.5		8.97					
Highest CH	1.09		2.73		4.48		9.01					

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.50	4.49	9.01	9.03	13.40	13.43	18.34	18.34	4.49	9.03	13.43	18.34
Middle CH	4.52	4.47	9.01	9.01	13.43	13.49	18.30	18.34	4.52	9.07	13.37	18.34
Highest CH	4.50	4.50	9.05	9.03	13.37	13.46	18.26	18.34	4.48	9.01	13.49	18.34



Mode	LTE Band 12 : 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	2.72	4.5	4.51	9.01	9.07				
Middle CH	1.09	1.09	2.72	2.72	4.49	4.5	9.07	9.07				
Highest CH	1.09	1.08	2.72	2.73	4.5	4.52	9.01	9.03				
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.5		9.01					
Middle CH	1.09		2.72		4.49		8.99					
Highest CH	1.09		2.73		4.51		8.97					

Mode	LTE Band 13 : 99%OBW(MHz)									
BW	5MHz		10MHz		5MHz	10MHz				
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM				
Lowest CH	4.51	4.51			4.47					
Middle CH	4.48	4.50	8.97	9.01	4.49	8.99				
Highest CH	4.50	4.48			4.50					

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	1.09	1.09	2.72	2.72	4.49	4.48	9.07	9.01	13.52	13.40	18.34	18.50
Middle CH	1.09	1.09	2.71	2.73	4.52	4.50	8.99	8.99	13.40	13.40	18.18	18.50
Highest CH	1.10	1.09	2.72	2.72	4.50	4.49	8.99	8.99	13.43	13.43	18.26	18.42
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.49		9.07		13.49		18.34	
Middle CH	1.09		2.72		4.51		9.01		13.43		18.22	
Highest CH	1.09		2.73		4.50		9.01		13.43		18.34	



For CA:

Mode	LTE Band 5 : 99%OBW(MHz)				
QPSK					
BW	5MHz+10MHz	10MHz+5MHz	10MHz+10MHz		
Lowest CH	14.57	14.51	19.06		
Middle CH	14.27	14.30	19.10		
Highest CH	14.33	14.48	19.10		

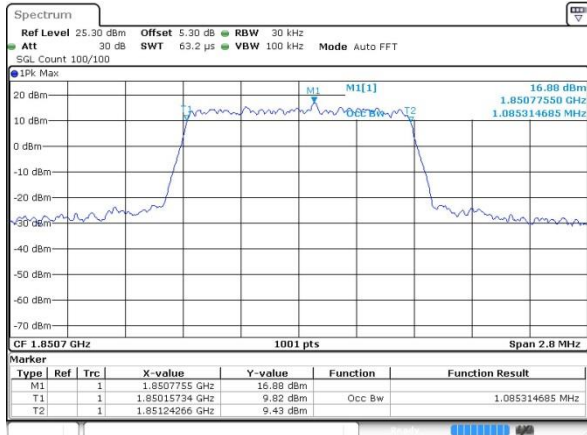
Mode	LTE Band 5 : 99%OBW(MHz)				
16QAM					
BW	5MHz+10MHz	10MHz+5MHz	10MHz+10MHz		
Lowest CH	14.30	14.42	19.10		
Middle CH	14.27	14.48	18.86		
Highest CH	14.42	14.36	19.22		

Mode	LTE Band 5 : 99%OBW(MHz)				
64QAM					
BW	5MHz+10MHz	10MHz+5MHz	10MHz+10MHz		
Lowest CH	14.33	14.48	19.02		
Middle CH	14.57	14.54	19.38		
Highest CH	14.32	14.45	19.10		



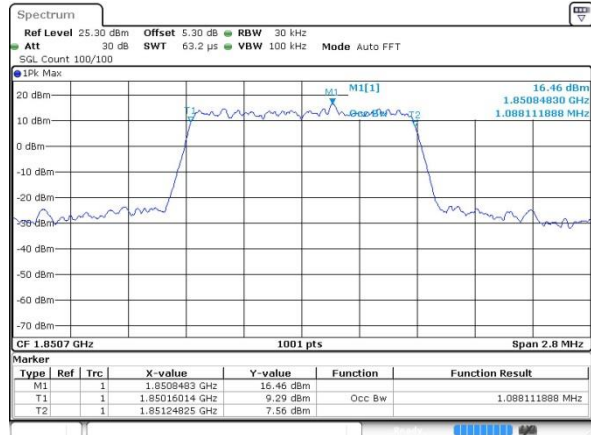
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



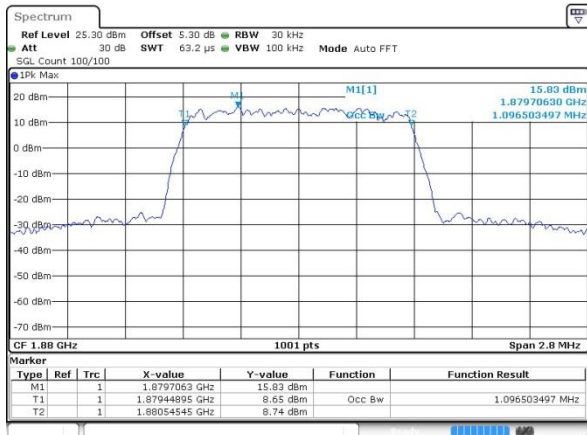
Date: 26 JAN 2019 15:39:38

Lowest Channel / 1.4MHz / 16QAM



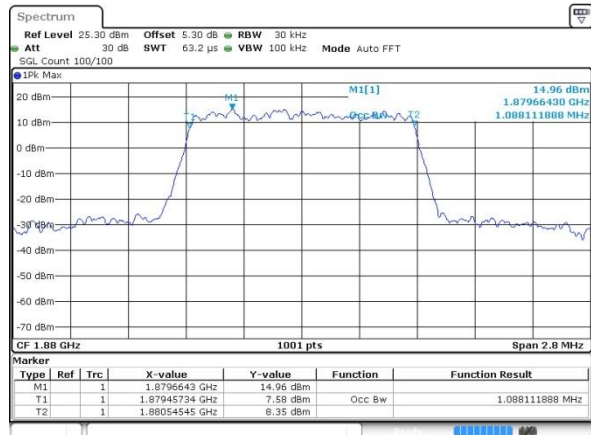
Date: 26 JAN 2019 15:39:48

Middle Channel / 1.4MHz / QPSK



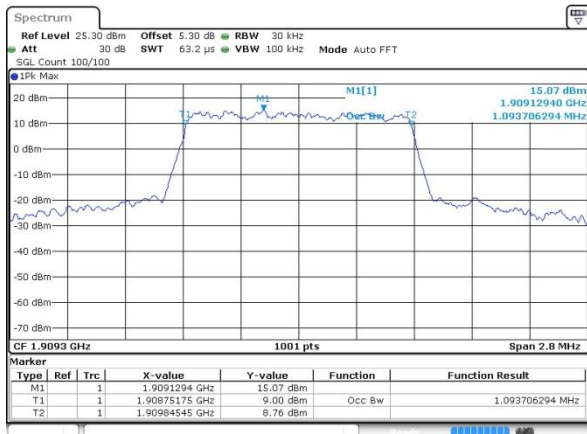
Date: 25 JAN 2019 00:57:30

Middle Channel / 1.4MHz / 16QAM



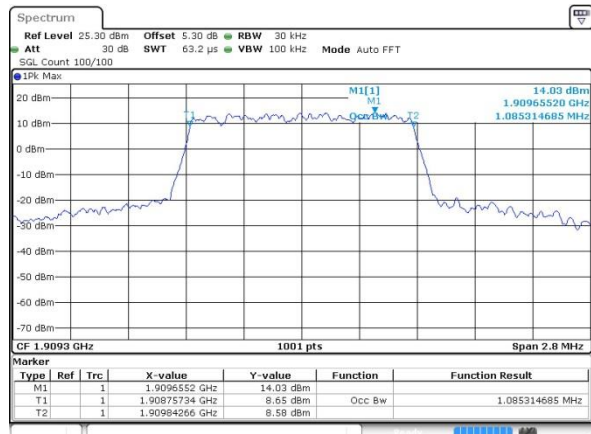
Date: 25 JAN 2019 00:57:46

Highest Channel / 1.4MHz / QPSK



Date: 25 JAN 2019 01:00:54

Highest Channel / 1.4MHz / 16QAM

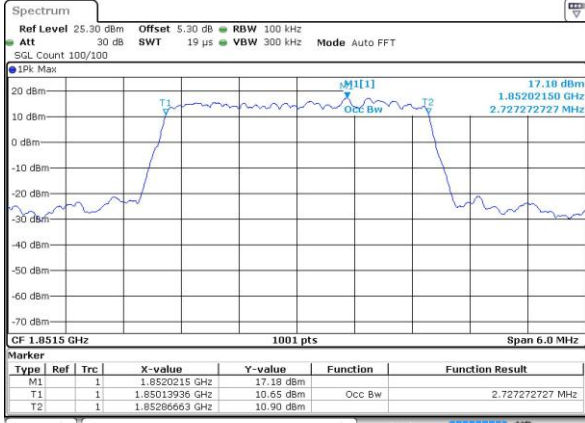


Date: 25 JAN 2019 01:01:06



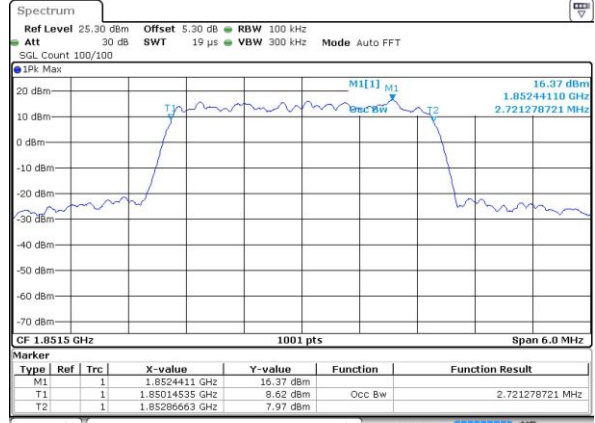
LTE Band 2

Lowest Channel / 3MHz / QPSK



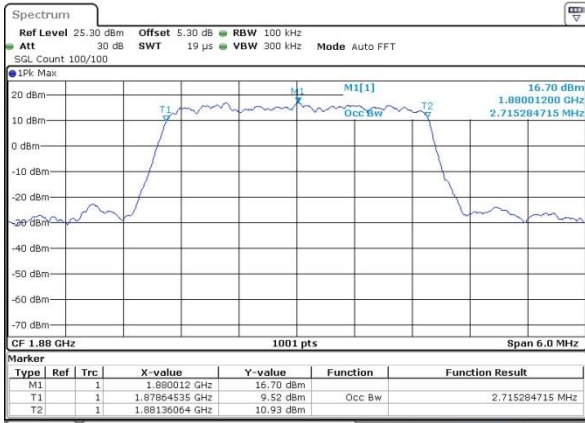
Date: 25 JAN 2019 04:36:00

Lowest Channel / 3MHz / 16QAM



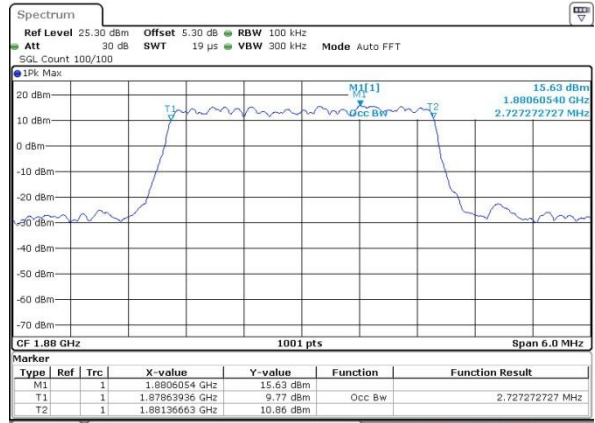
Date: 25 JAN 2019 04:36:13

Middle Channel / 3MHz / QPSK



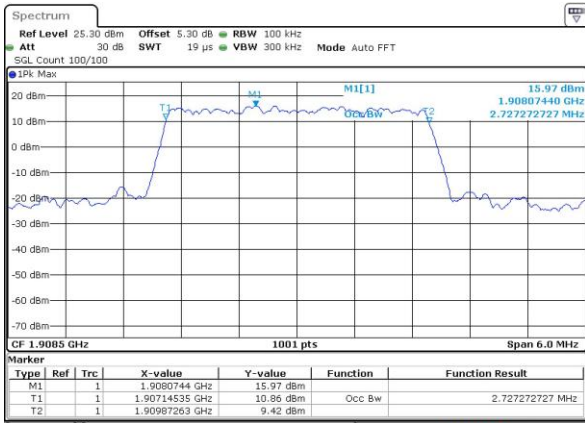
Date: 25 JAN 2019 04:41:57

Middle Channel / 3MHz / 16QAM



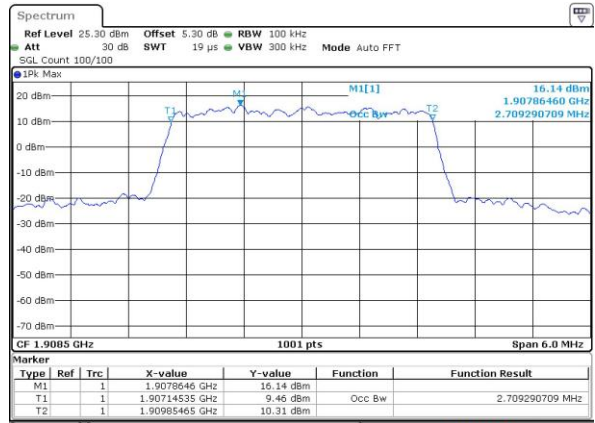
Date: 25 JAN 2019 04:42:11

Highest Channel / 3MHz / QPSK



Date: 25 JAN 2019 04:42:53

Highest Channel / 3MHz / 16QAM

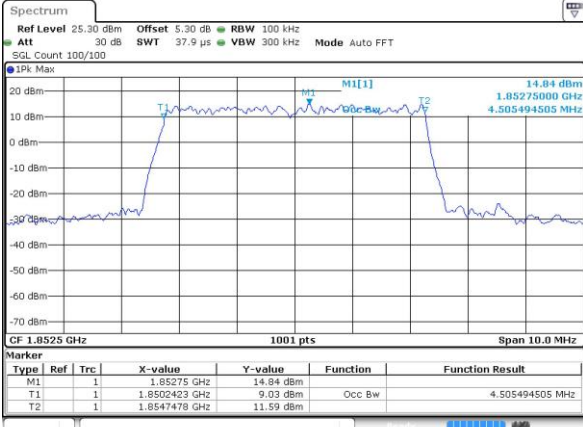


Date: 25 JAN 2019 04:43:05



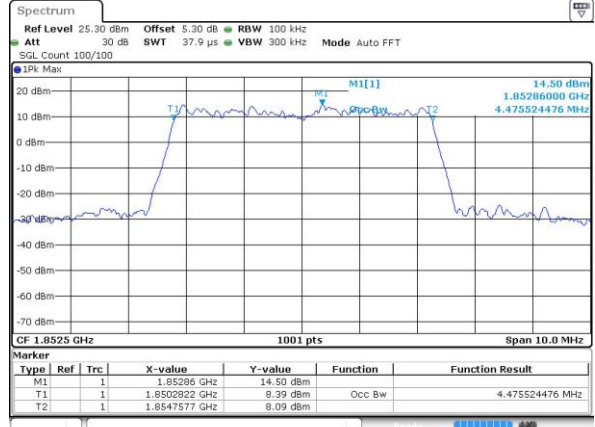
LTE Band 2

Lowest Channel / 5MHz / QPSK



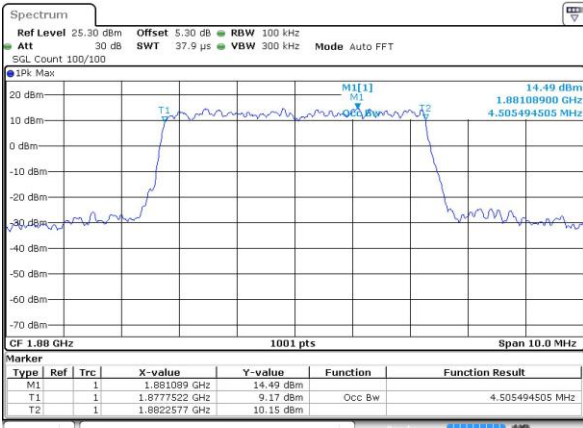
Date: 25 JAN 2019 04:20:08

Lowest Channel / 5MHz / 16QAM



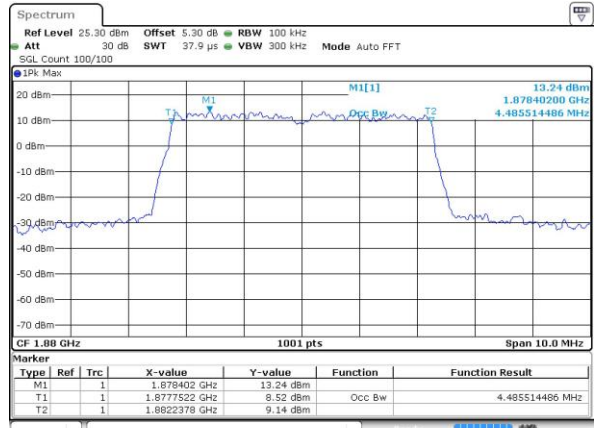
Date: 25 JAN 2019 04:20:19

Middle Channel / 5MHz / QPSK



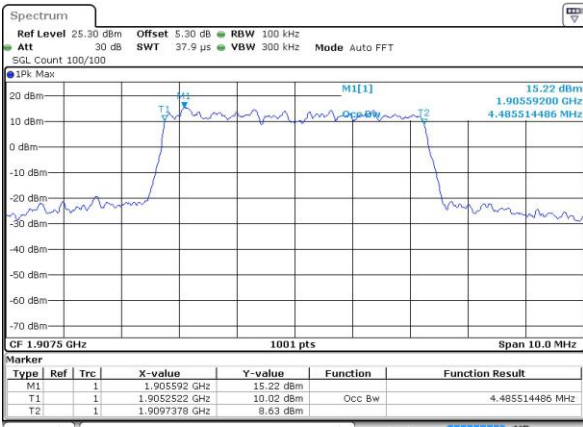
Date: 25 JAN 2019 04:20:54

Middle Channel / 5MHz / 16QAM



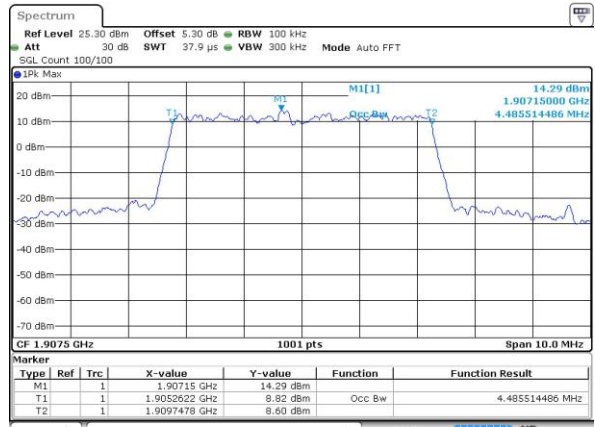
Date: 25 JAN 2019 04:21:08

Highest Channel / 5MHz / QPSK



Date: 25 JAN 2019 04:21:48

Highest Channel / 5MHz / 16QAM

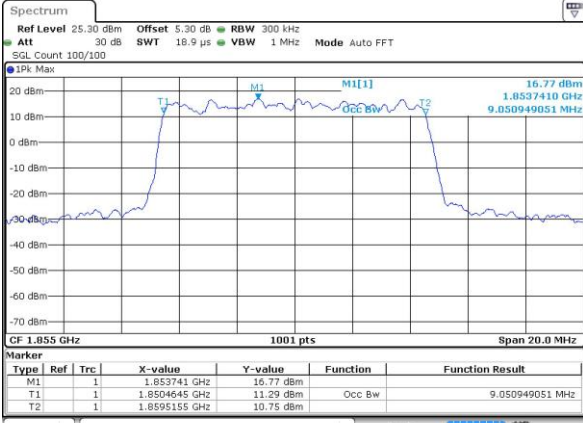


Date: 25 JAN 2019 04:22:00



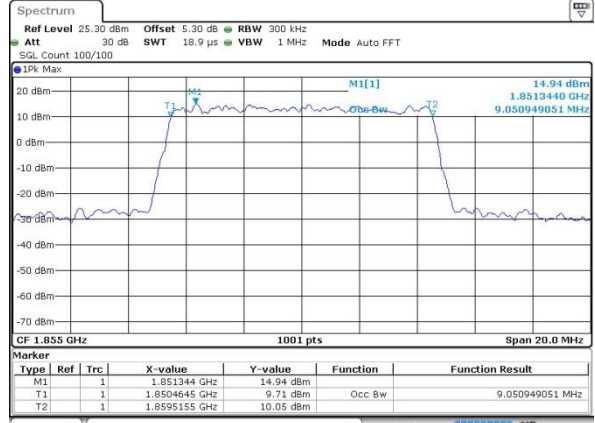
LTE Band 2

Lowest Channel / 10MHz / QPSK



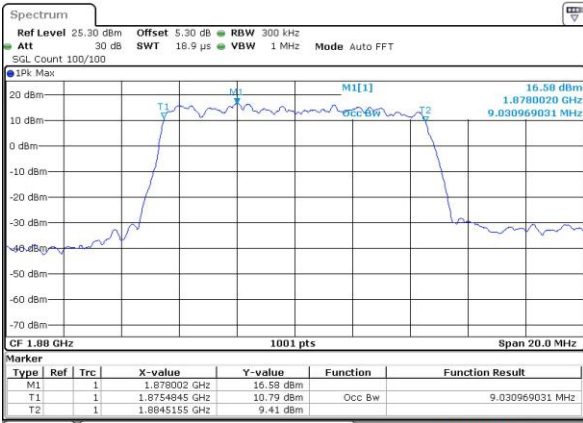
Date: 25 JAN 2019 03:51:42

Lowest Channel / 10MHz / 16QAM



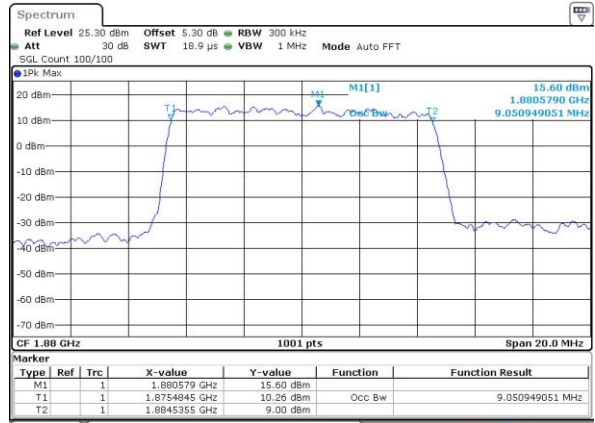
Date: 25 JAN 2019 03:51:54

Middle Channel / 10MHz / QPSK



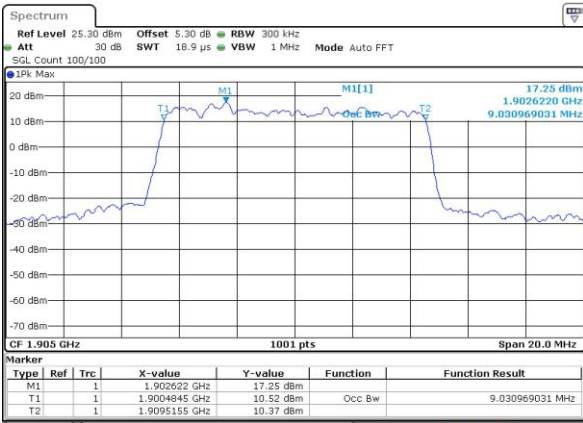
Date: 25 JAN 2019 04:01:48

Middle Channel / 10MHz / 16QAM



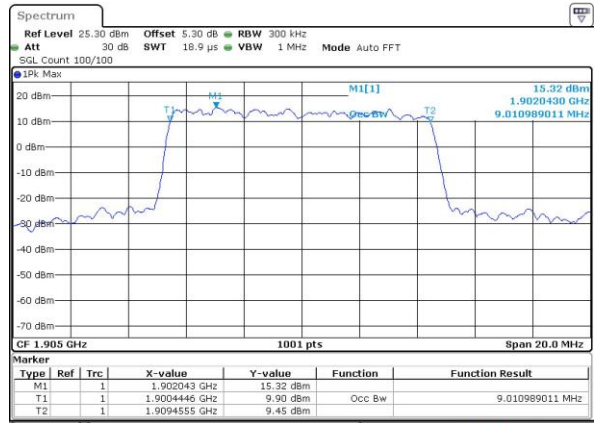
Date: 25 JAN 2019 04:02:00

Highest Channel / 10MHz / QPSK



Date: 25 JAN 2019 04:04:40

Highest Channel / 10MHz / 16QAM

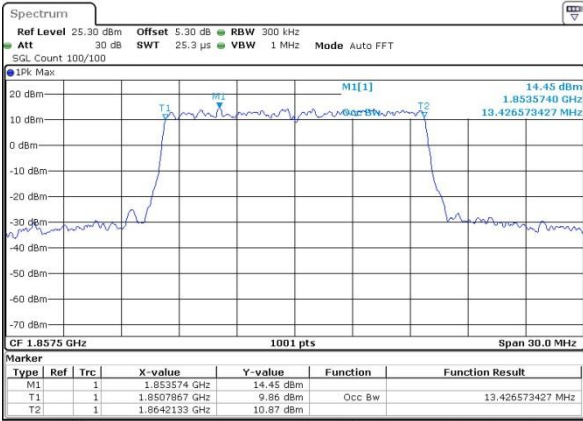


Date: 25 JAN 2019 04:04:53



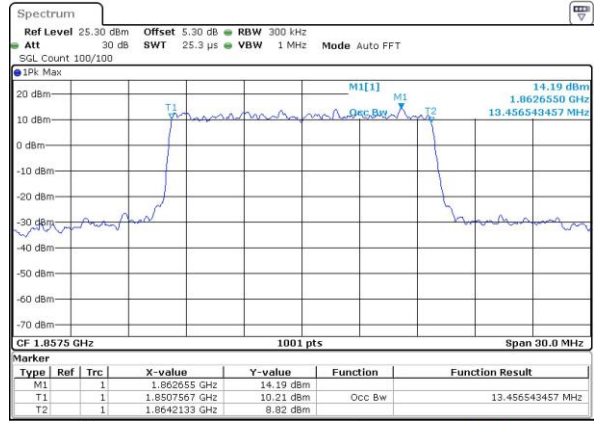
LTE Band 2

Lowest Channel / 15MHz / QPSK



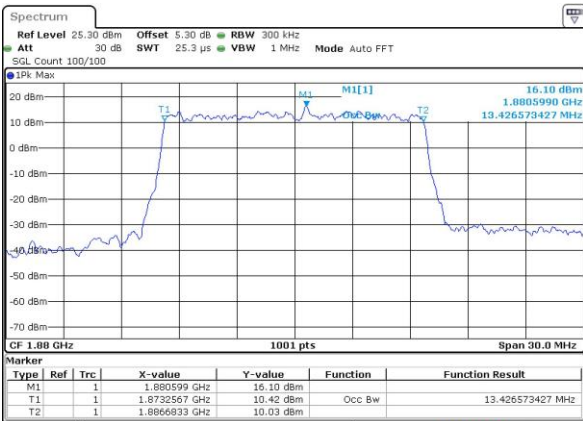
Date: 25 JAN 2019 03:16:36

Lowest Channel / 15MHz / 16QAM



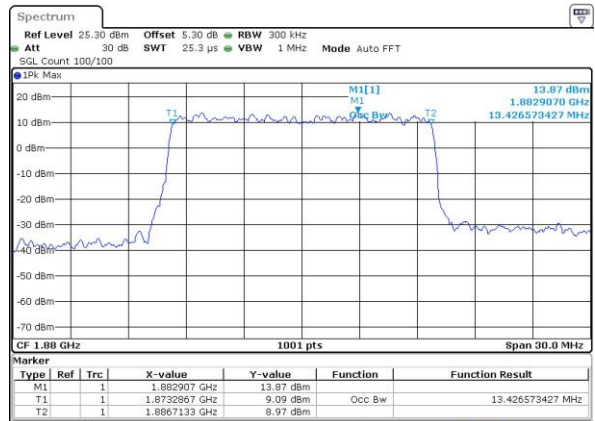
Date: 25 JAN 2019 03:16:49

Middle Channel / 15MHz / QPSK



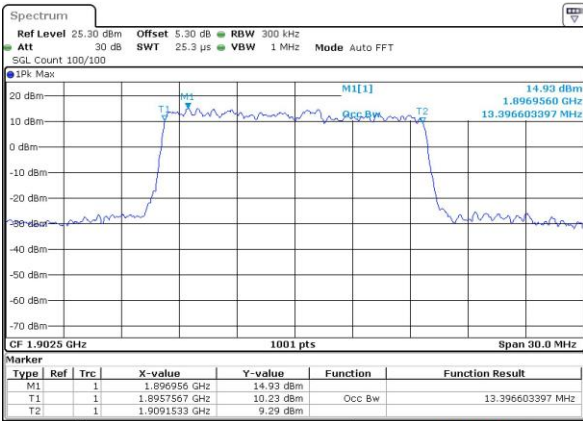
Date: 25 JAN 2019 03:25:13

Middle Channel / 15MHz / 16QAM



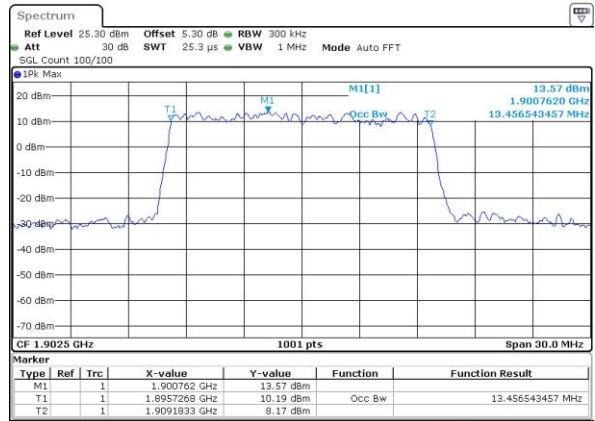
Date: 25 JAN 2019 03:25:27

Highest Channel / 15MHz / QPSK



Date: 25 JAN 2019 03:29:59

Highest Channel / 15MHz / 16QAM

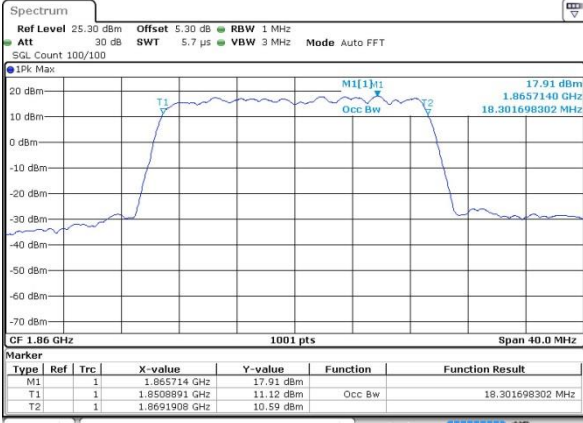


Date: 25 JAN 2019 03:30:14



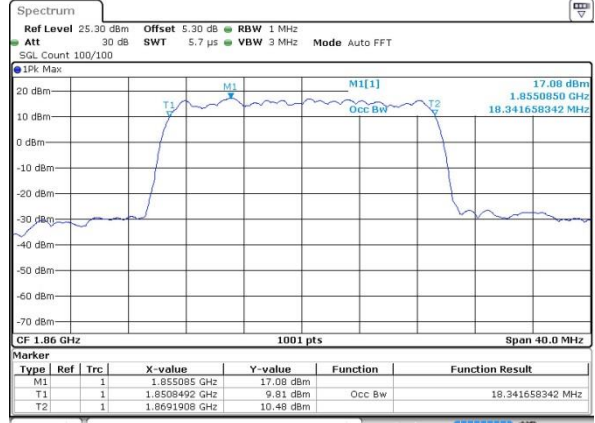
LTE Band 2

Lowest Channel / 20MHz / QPSK



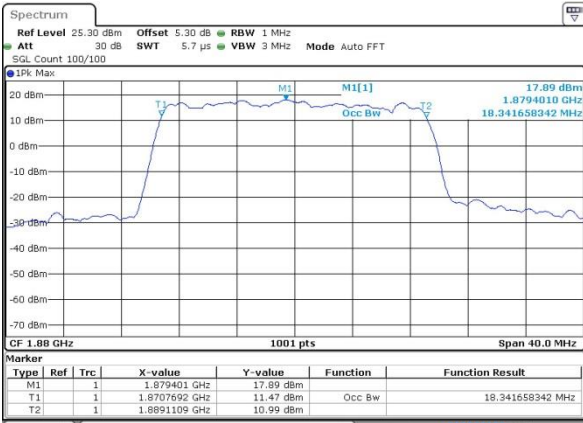
Date: 23 FEB 2019 22:19:46

Lowest Channel / 20MHz / 16QAM



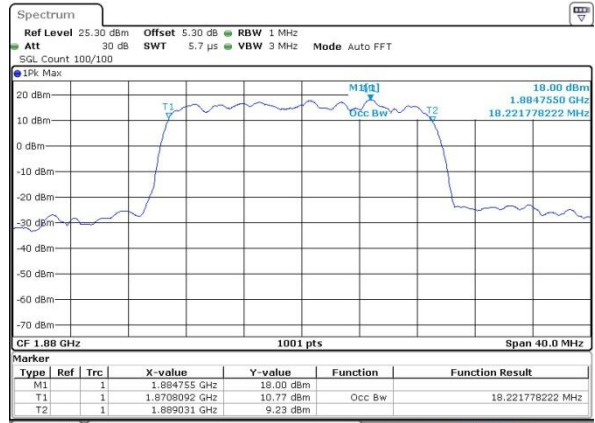
Date: 23 FEB 2019 22:20:11

Middle Channel / 20MHz / QPSK



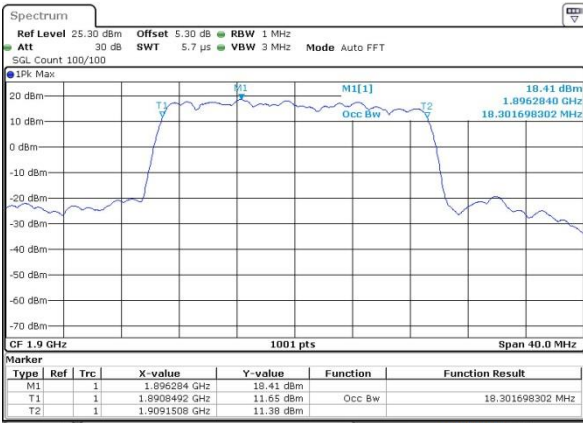
Date: 23 FEB 2019 22:17:00

Middle Channel / 20MHz / 16QAM



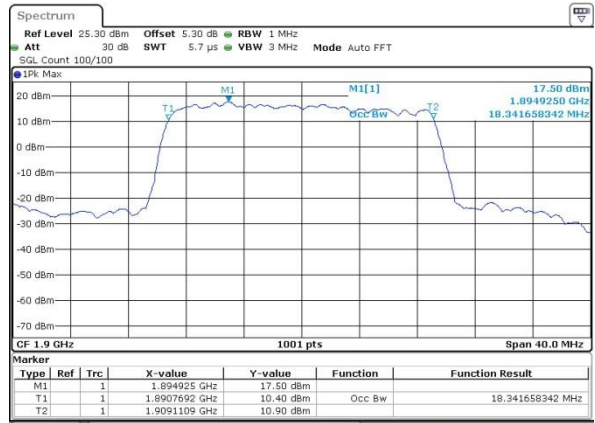
Date: 23 FEB 2019 22:17:41

Highest Channel / 20MHz / QPSK



Date: 23 FEB 2019 22:21:07

Highest Channel / 20MHz / 16QAM

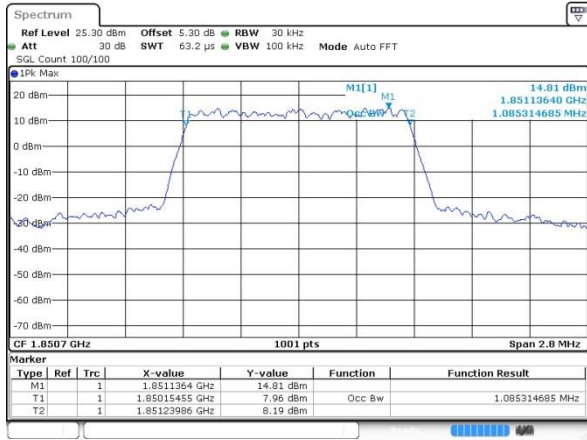


Date: 23 FEB 2019 22:21:33



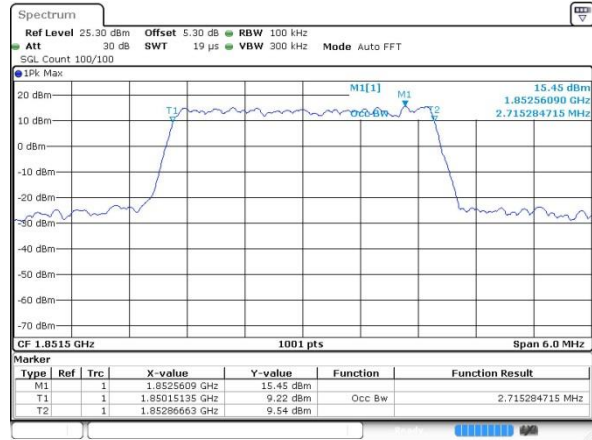
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



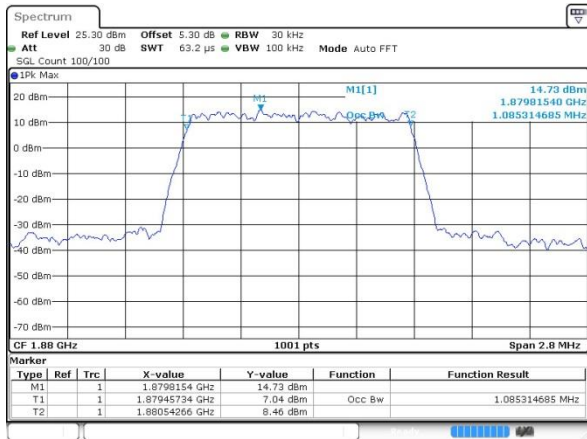
Date: 26 JAN 2019 16:02:21

Lowest Channel / 3MHz / 64QAM



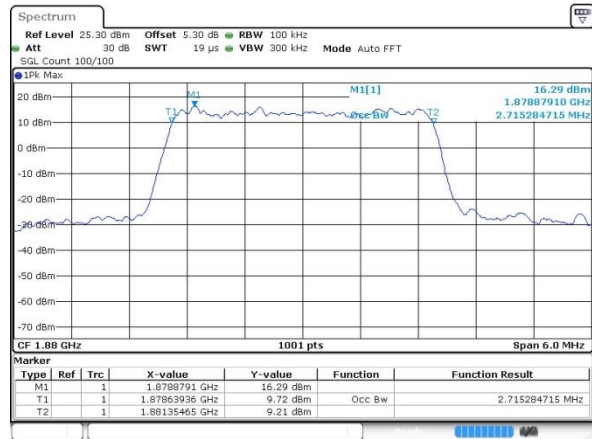
Date: 25 JAN 2019 01:27:26

Middle Channel / 1.4MHz / 64QAM



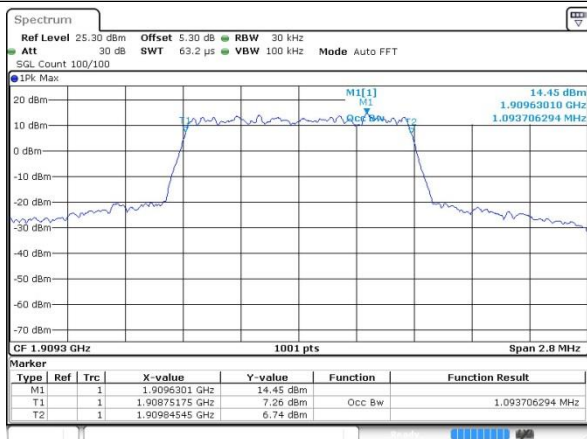
Date: 25 JAN 2019 01:27:01

Middle Channel / 3MHz / 64QAM



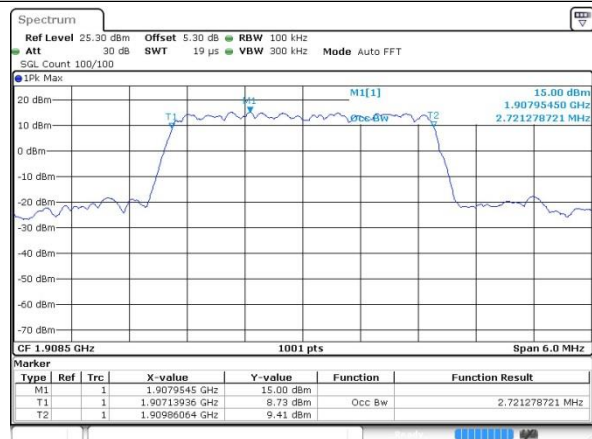
Date: 25 JAN 2019 01:27:38

Highest Channel / 1.4MHz / 64QAM



Date: 25 JAN 2019 01:27:13

Highest Channel / 3MHz / 64QAM

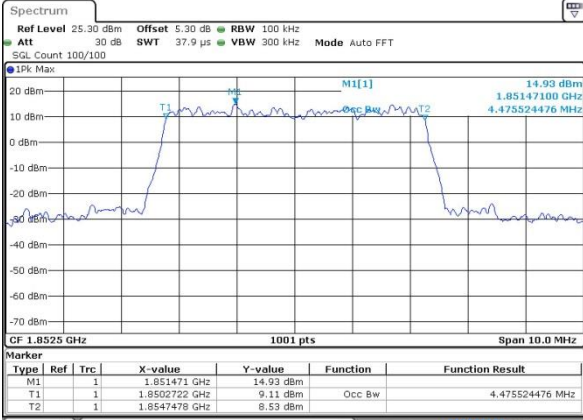


Date: 25 JAN 2019 01:27:49



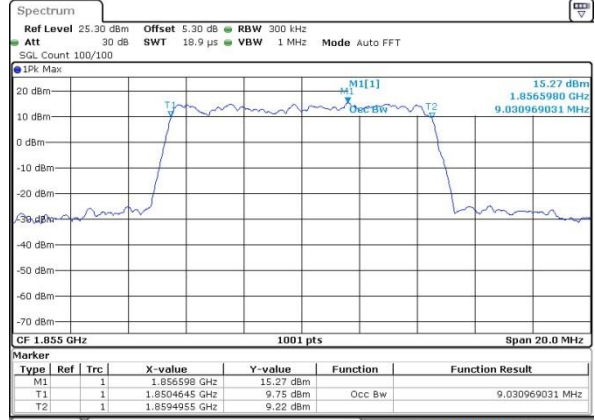
LTE Band 2

Lowest Channel / 5MHz / 64QAM



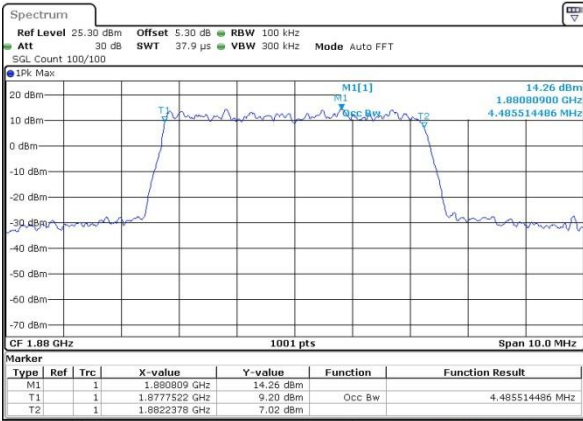
Date: 25 JAN 2019 01:28:01

Lowest Channel / 10MHz / 64QAM



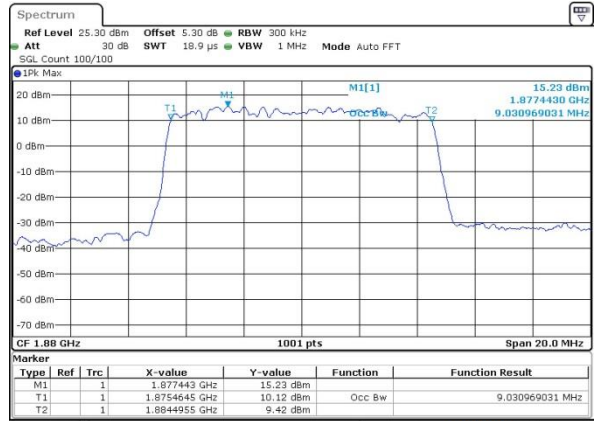
Date: 25 JAN 2019 01:28:39

Middle Channel / 5MHz / 64QAM



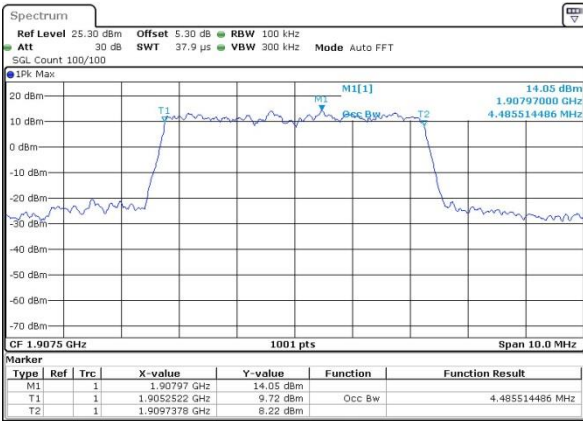
Date: 25 JAN 2019 01:28:13

Middle Channel / 10MHz / 64QAM



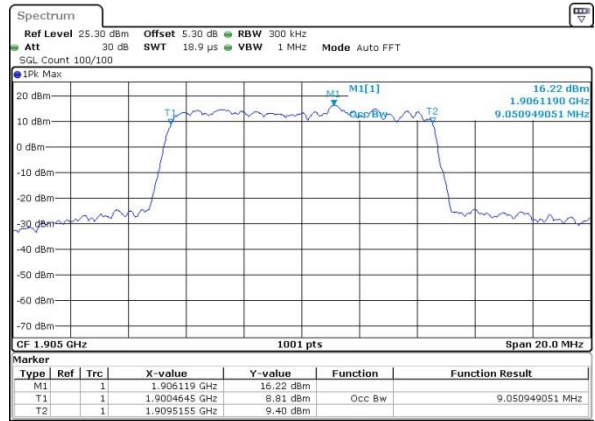
Date: 25 JAN 2019 01:28:51

Highest Channel / 5MHz / 64QAM



Date: 25 JAN 2019 01:28:26

Highest Channel / 10MHz / 64QAM

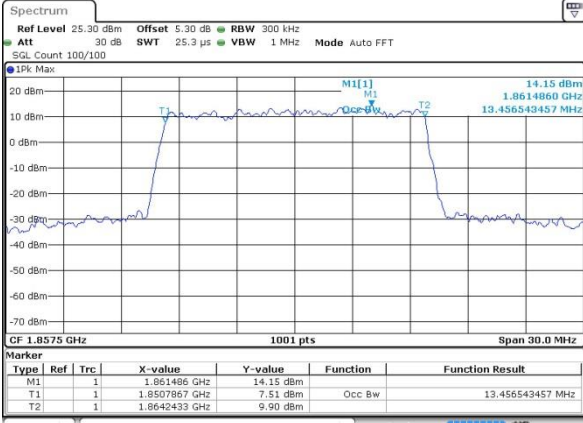


Date: 25 JAN 2019 01:29:08



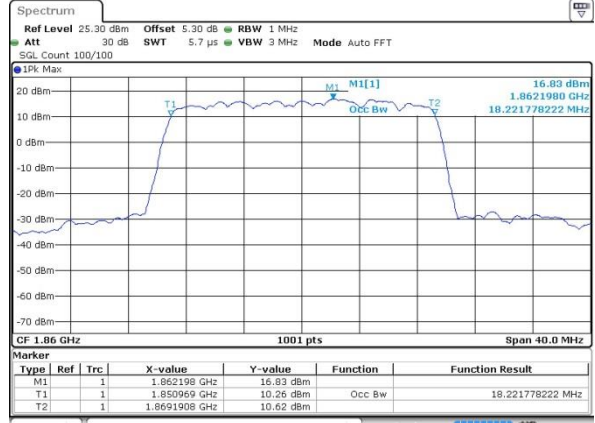
LTE Band 2

Lowest Channel / 15MHz / 64QAM



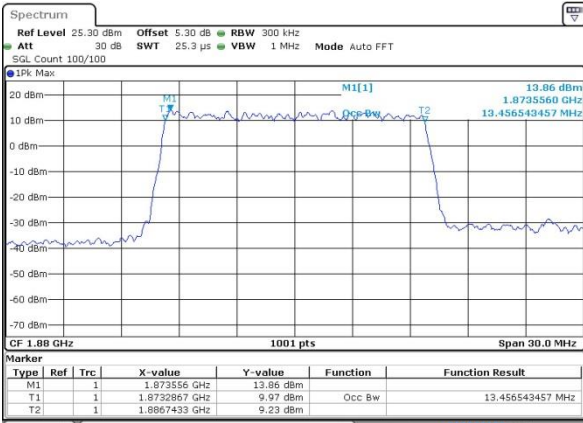
Date: 25 JAN 2019 01:29:20

Lowest Channel / 20MHz / 64QAM



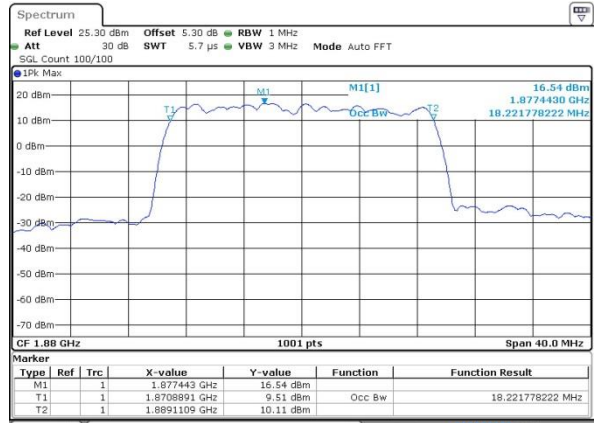
Date: 23 FEB 2019 22:20:39

Middle Channel / 15MHz / 64QAM



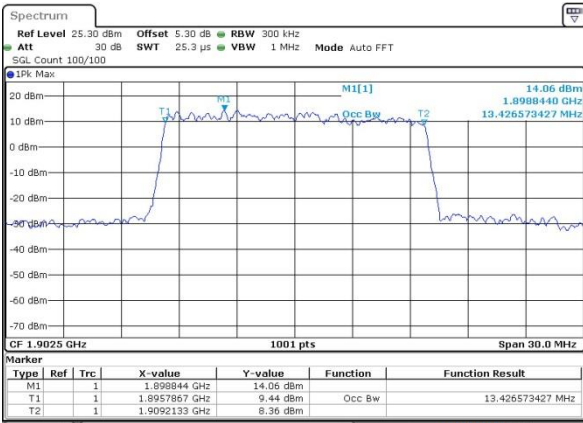
Date: 25 JAN 2019 01:29:32

Middle Channel / 20MHz / 64QAM



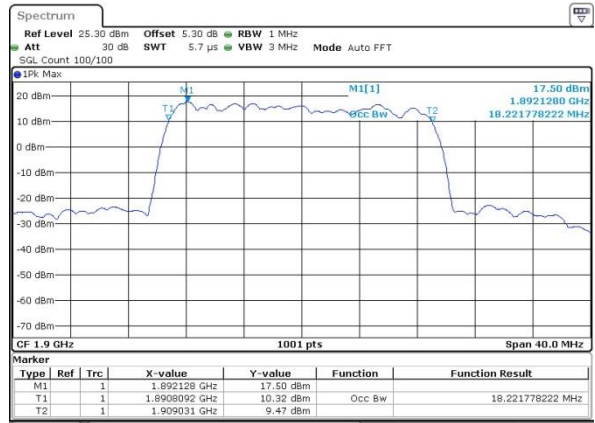
Date: 23 FEB 2019 22:18:50

Highest Channel / 15MHz / 64QAM



Date: 25 JAN 2019 01:29:44

Highest Channel / 20MHz / 64QAM

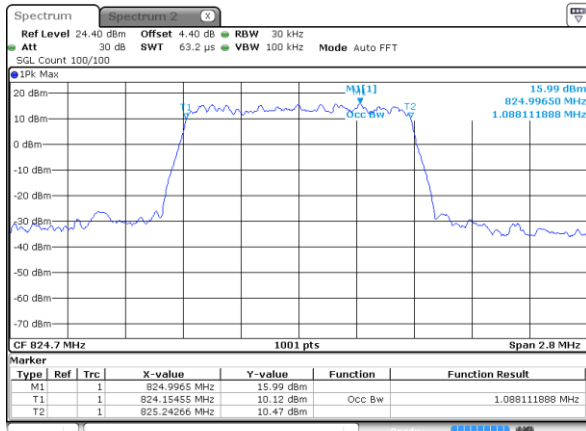


Date: 23 FEB 2019 22:22:01



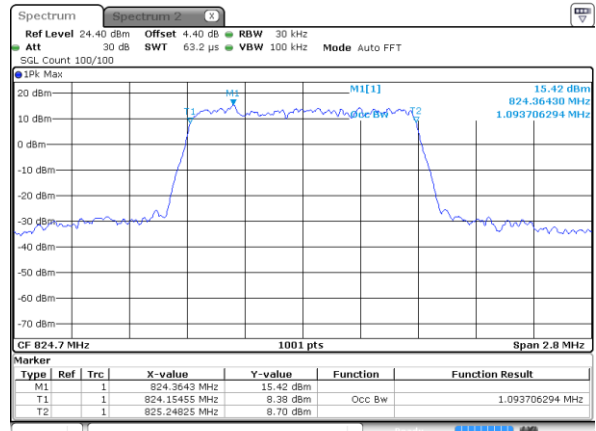
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



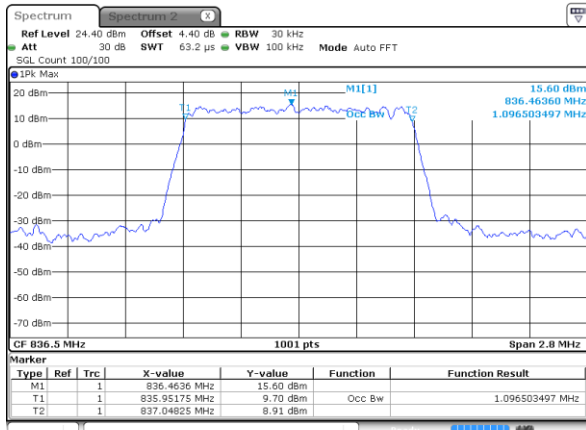
Date: 21 JAN 2019 10:24:45

Lowest Channel / 1.4MHz / 16QAM



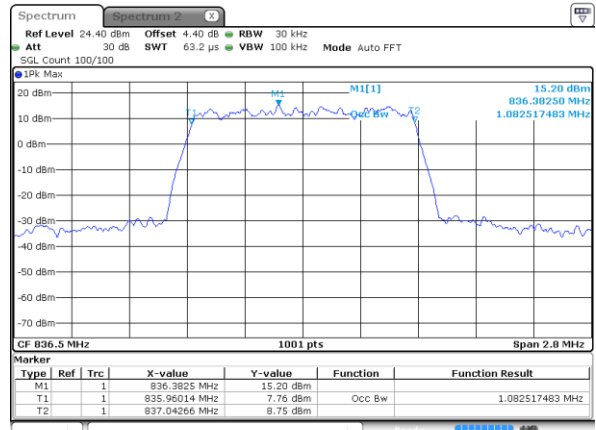
Date: 21 JAN 2019 10:24:56

Middle Channel / 1.4MHz / QPSK



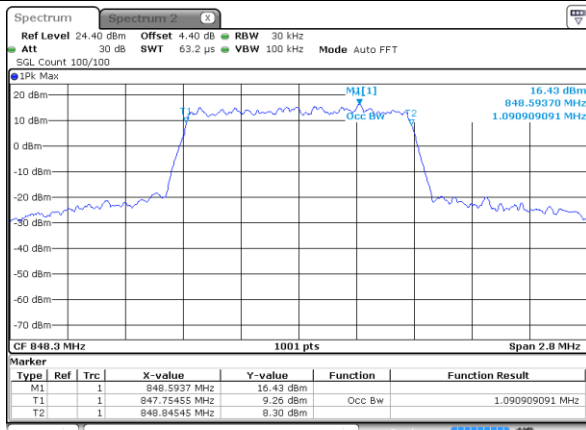
Date: 21 JAN 2019 10:33:55

Middle Channel / 1.4MHz / 16QAM



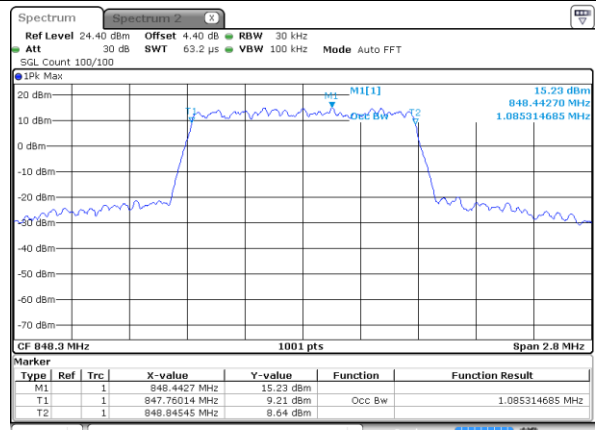
Date: 21 JAN 2019 10:34:06

Highest Channel / 1.4MHz / QPSK



Date: 21 JAN 2019 10:36:27

Highest Channel / 1.4MHz / 16QAM



Date: 21 JAN 2019 10:36:38