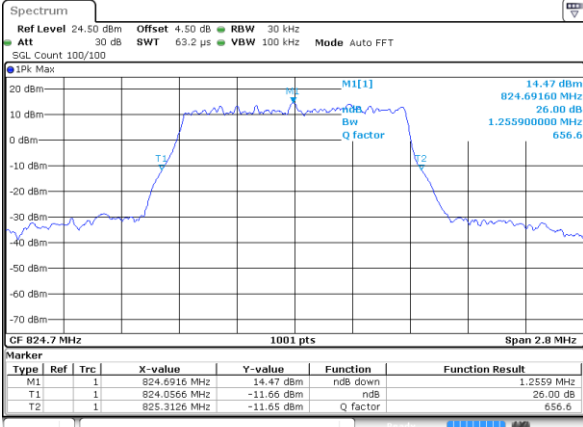




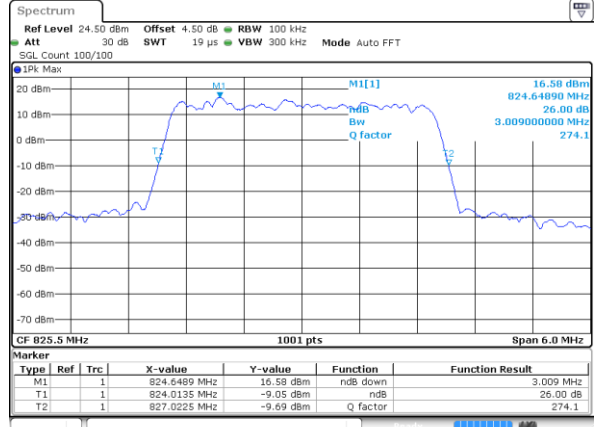
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



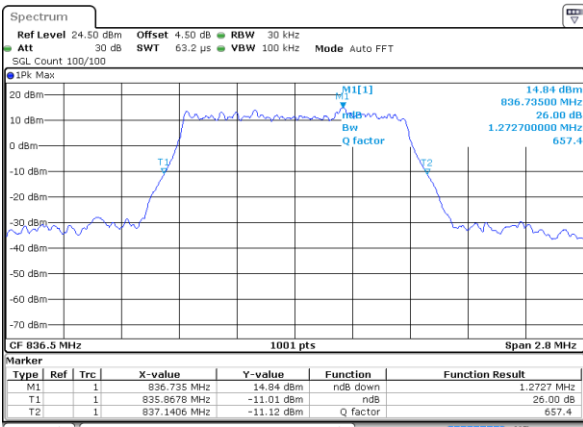
Date: 2 MAY 2019 17:26:11

Lowest Channel / 3MHz / 64QAM



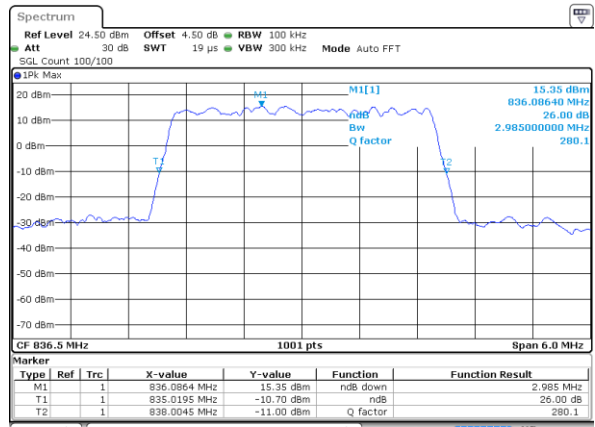
Date: 2 MAY 2019 17:36:25

Middle Channel / 1.4MHz / 64QAM



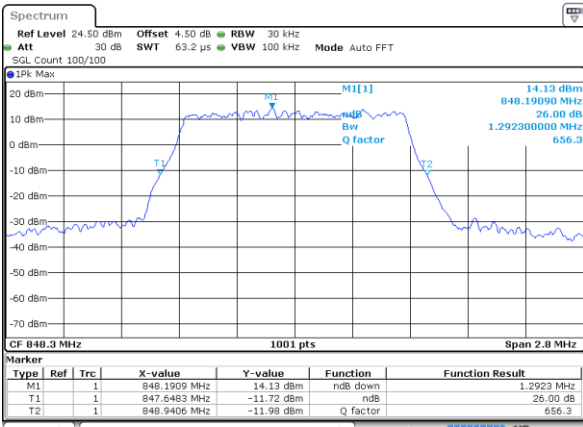
Date: 2 MAY 2019 17:31:35

Middle Channel / 3MHz / 64QAM



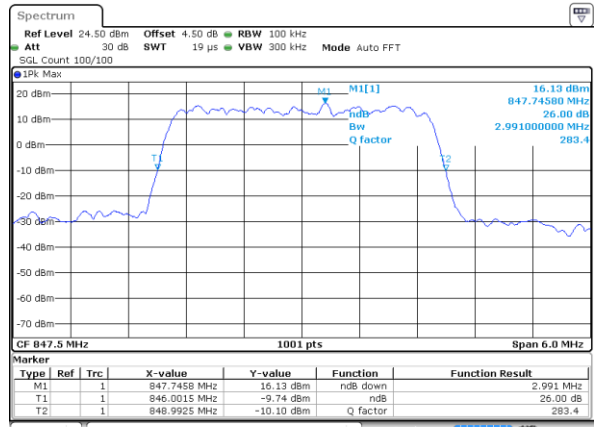
Date: 2 MAY 2019 17:41:49

Highest Channel / 1.4MHz / 64QAM



Date: 2 MAY 2019 17:31:55

Highest Channel / 3MHz / 64QAM

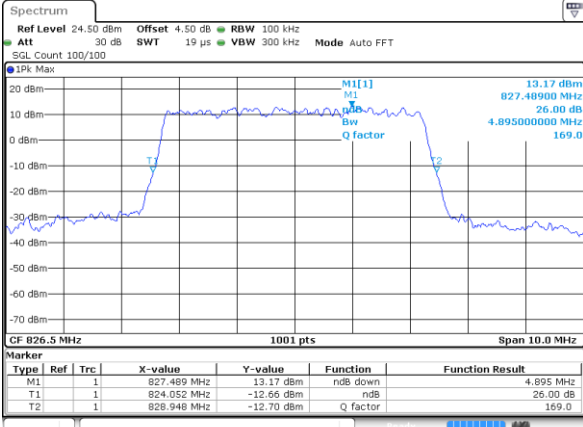


Date: 2 MAY 2019 17:42:09



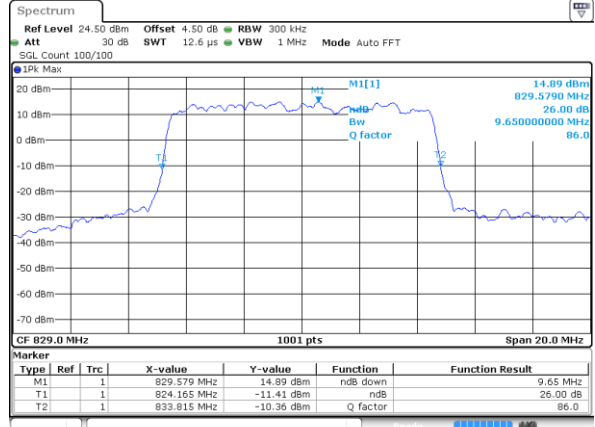
LTE Band 5

Lowest Channel / 5MHz / 64QAM



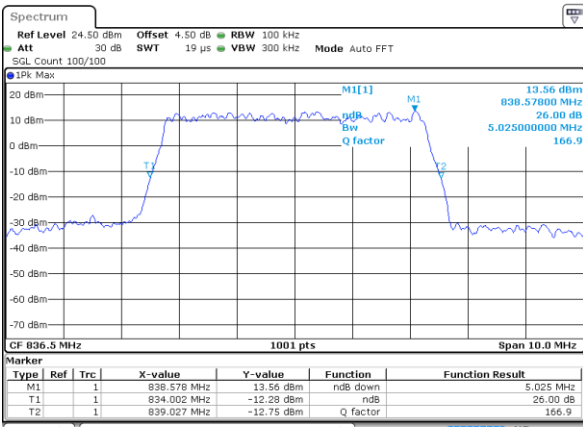
Date: 2 MAY 2019 17:46:38

Lowest Channel / 10MHz / 64QAM



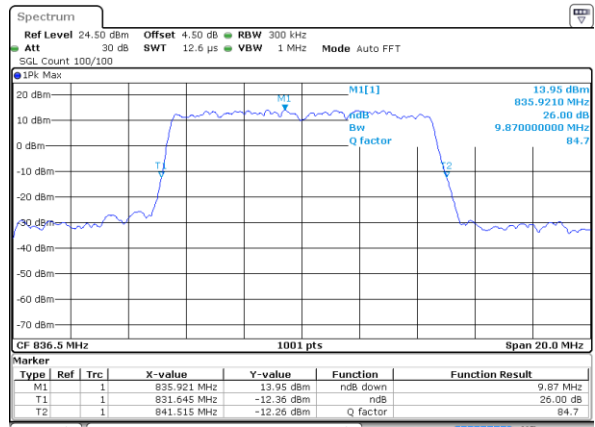
Date: 2 MAY 2019 17:06:18

Middle Channel / 5MHz / 64QAM



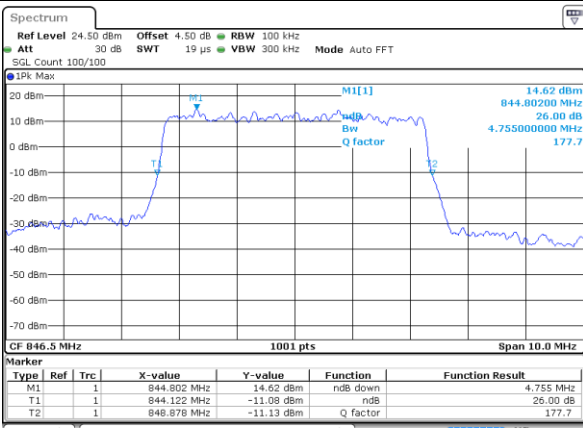
Date: 2 MAY 2019 17:01:29

Middle Channel / 10MHz / 64QAM



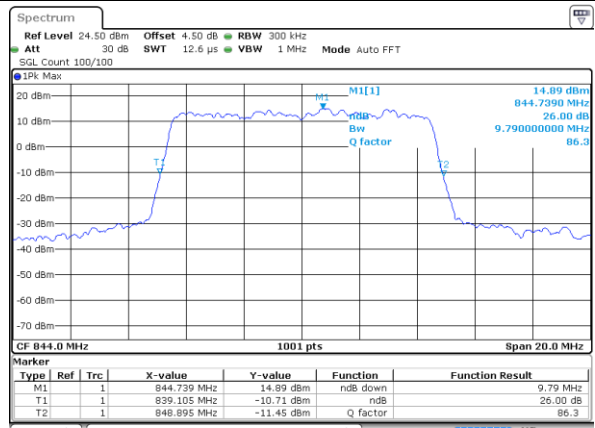
Date: 2 MAY 2019 17:11:42

Highest Channel / 5MHz / 64QAM



Date: 2 MAY 2019 17:01:49

Highest Channel / 10MHz / 64QAM

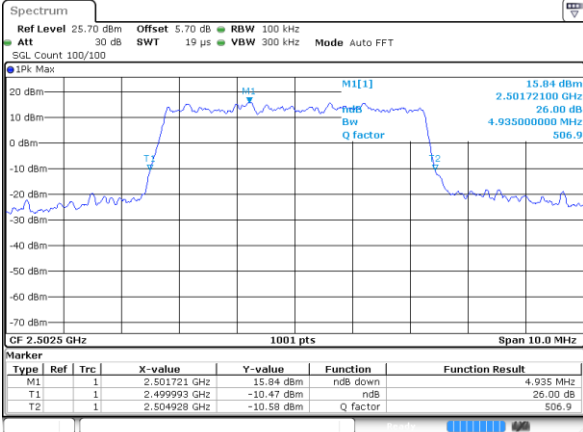


Date: 2 MAY 2019 17:12:02



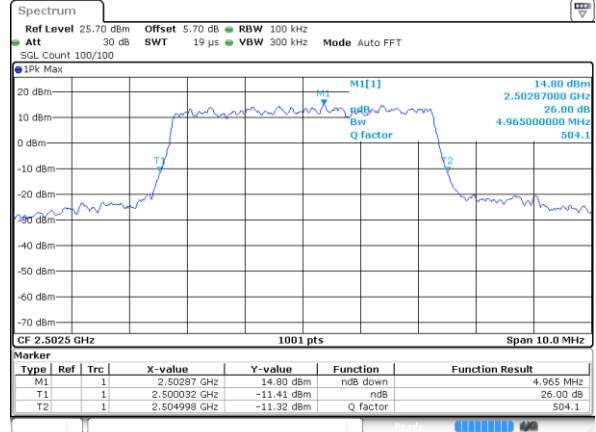
LTE Band 7

Lowest Channel / 5MHz / QPSK



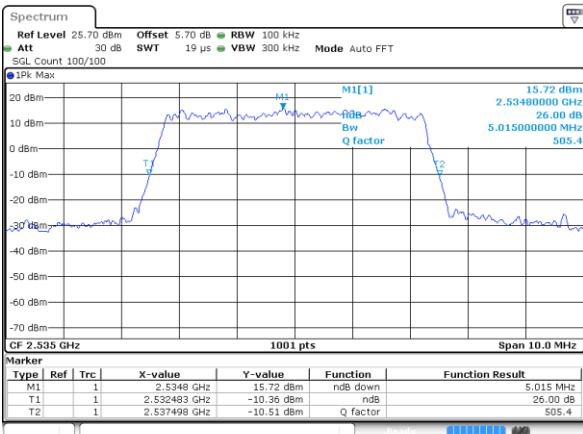
Date: 2 MAY 2019 18:43:08

Lowest Channel / 5MHz / 16QAM



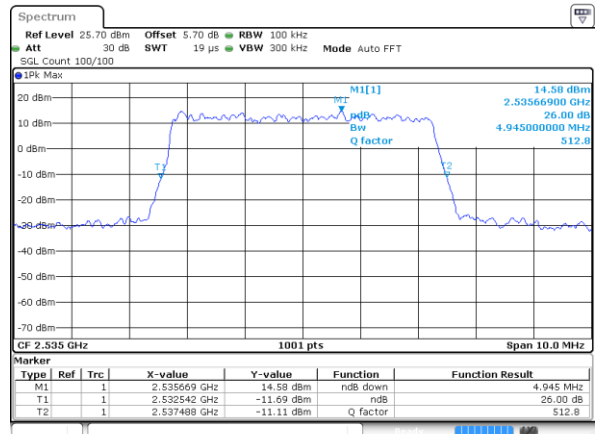
Date: 2 MAY 2019 18:43:28

Middle Channel / 5MHz / QPSK



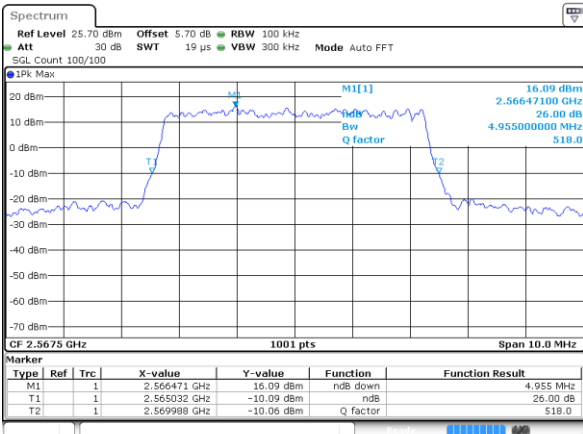
Date: 2 MAY 2019 18:44:08

Middle Channel / 5MHz / 16QAM



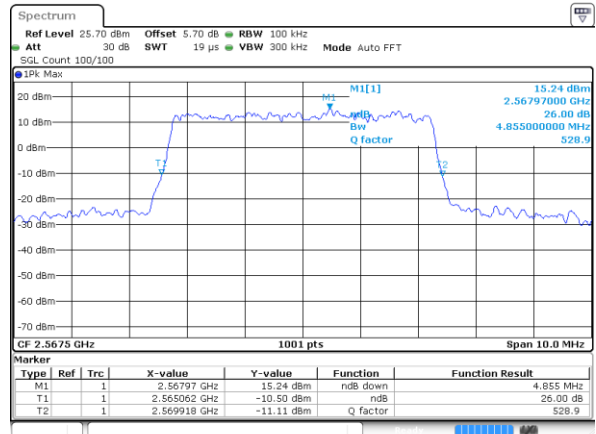
Date: 2 MAY 2019 18:43:48

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2019 18:44:28

Highest Channel / 5MHz / 16QAM

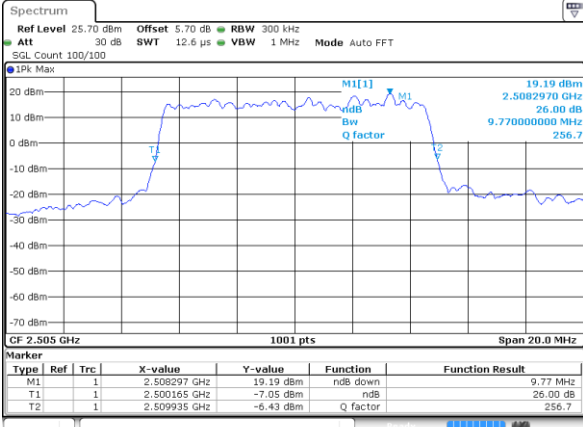


Date: 2 MAY 2019 18:44:49



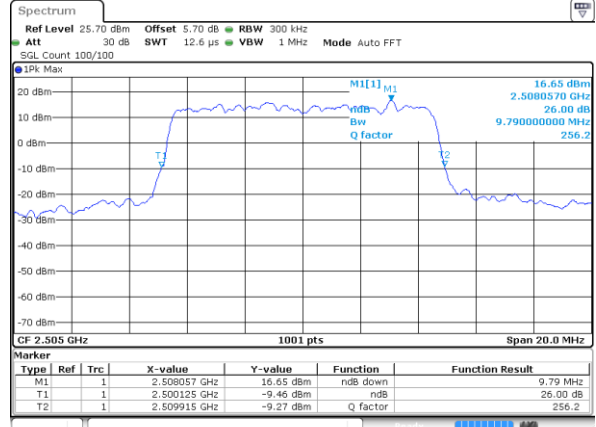
LTE Band 7

Lowest Channel / 10MHz / QPSK



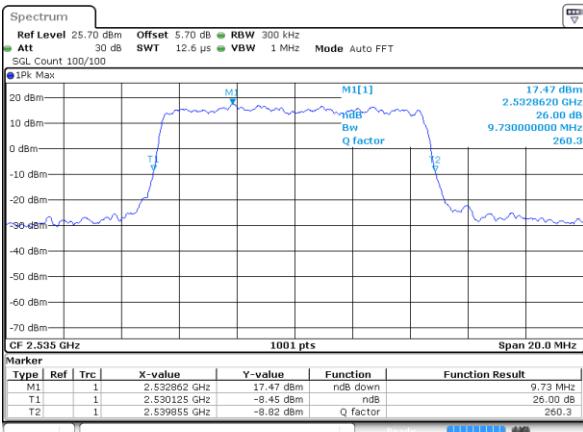
Date: 2 MAY 2019 18:57:36

Lowest Channel / 10MHz / 16QAM



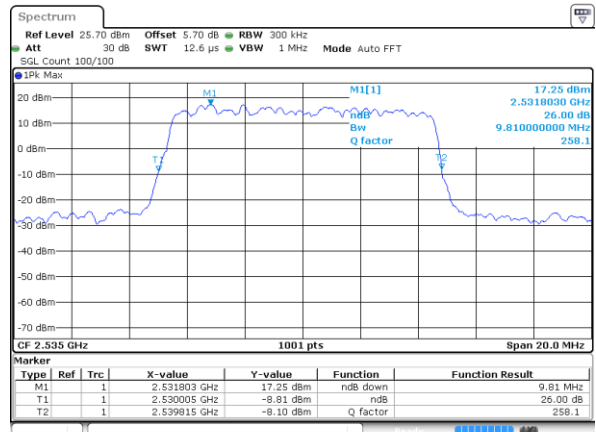
Date: 2 MAY 2019 18:57:56

Middle Channel / 10MHz / QPSK



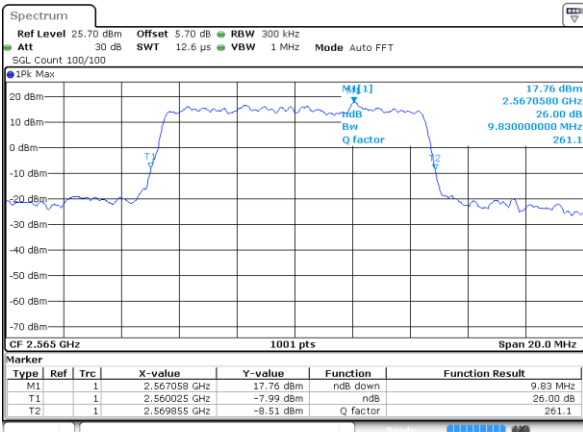
Date: 2 MAY 2019 18:58:36

Middle Channel / 10MHz / 16QAM



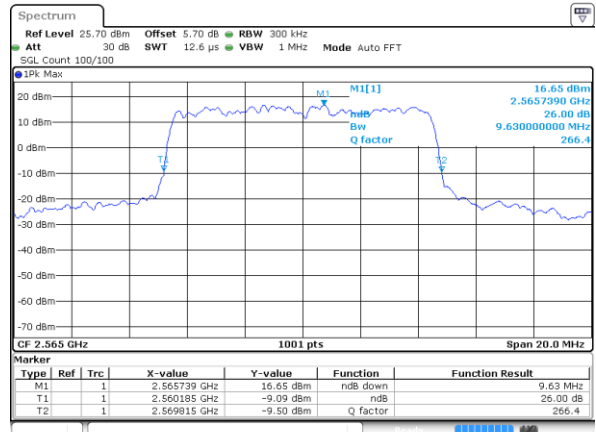
Date: 2 MAY 2019 18:58:16

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2019 18:58:56

Highest Channel / 10MHz / 16QAM

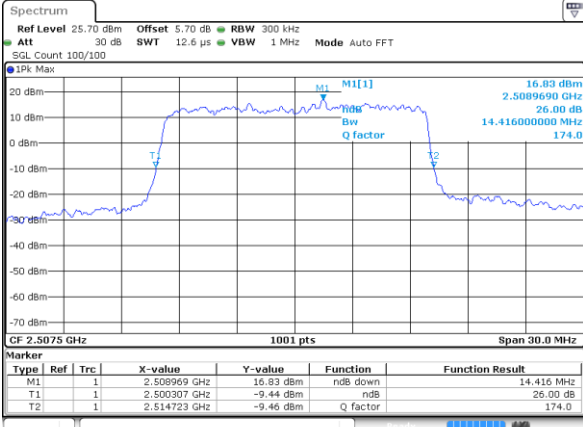


Date: 2 MAY 2019 18:59:16



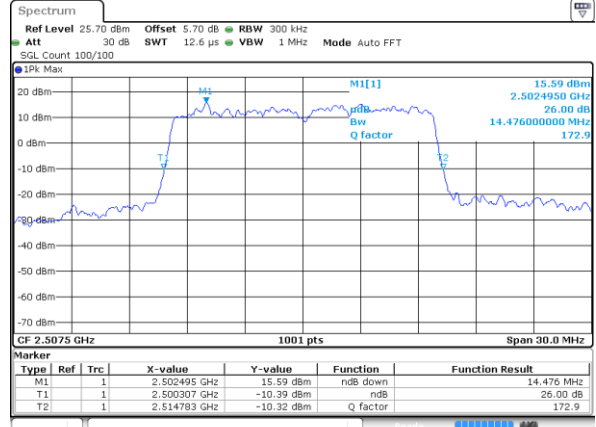
LTE Band 7

Lowest Channel / 15MHz / QPSK



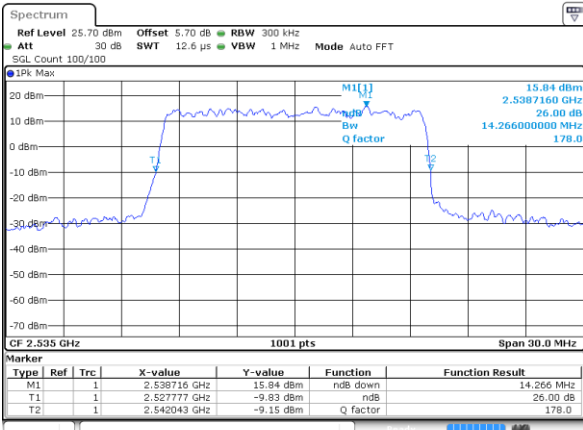
Date: 2 MAY 2019 19:14:24

Lowest Channel / 15MHz / 16QAM



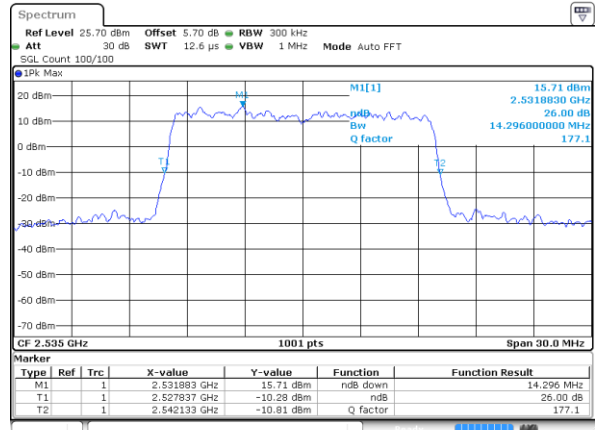
Date: 2 MAY 2019 19:14:04

Middle Channel / 15MHz / QPSK



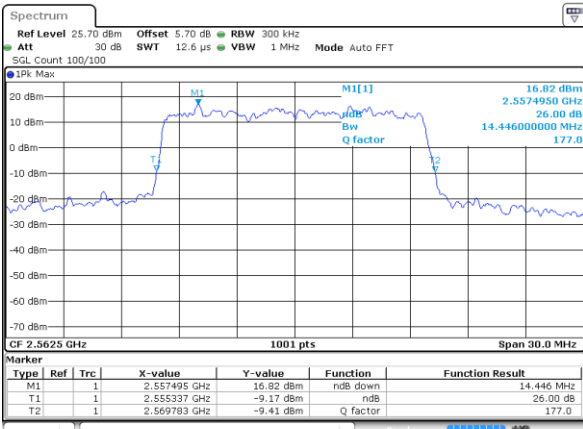
Date: 2 MAY 2019 19:14:44

Middle Channel / 15MHz / 16QAM



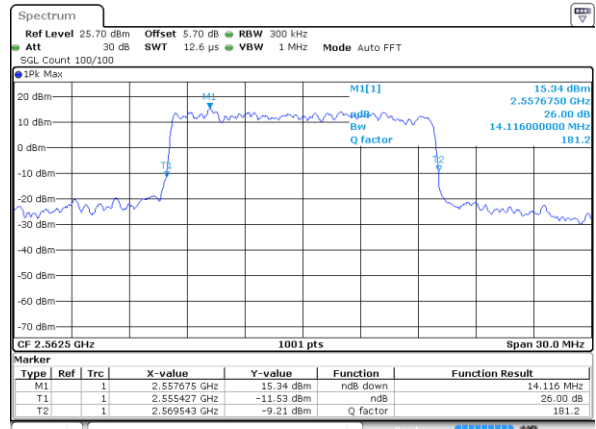
Date: 2 MAY 2019 19:15:04

Highest Channel / 15MHz / QPSK



Date: 2 MAY 2019 19:15:44

Highest Channel / 15MHz / 16QAM

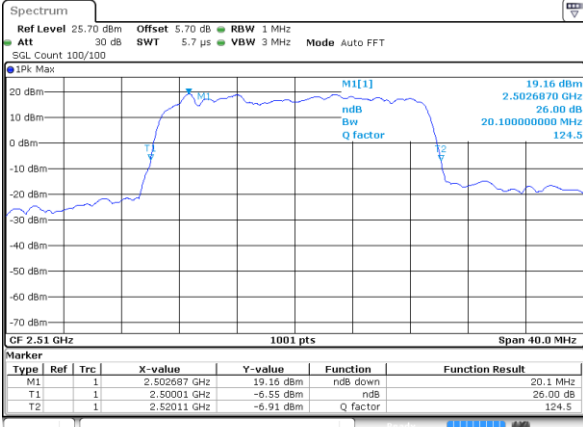


Date: 2 MAY 2019 19:15:24



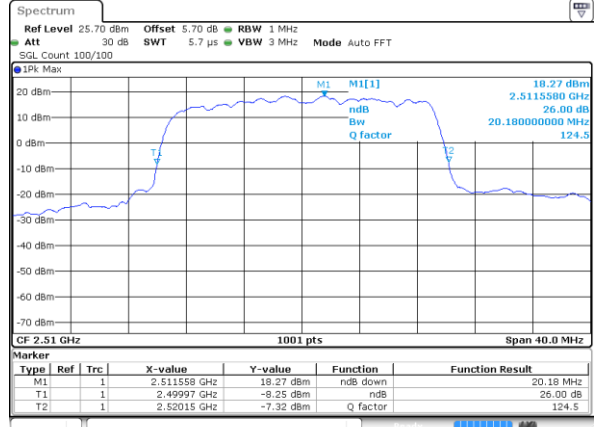
LTE Band 7

Lowest Channel / 20MHz / QPSK



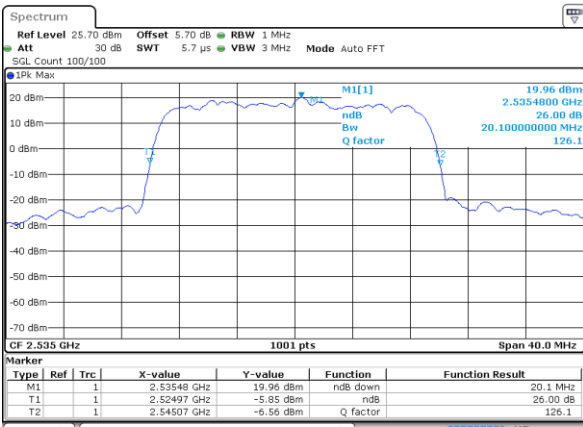
Date: 2 MAY 2019 19:30:54

Lowest Channel / 20MHz / 16QAM



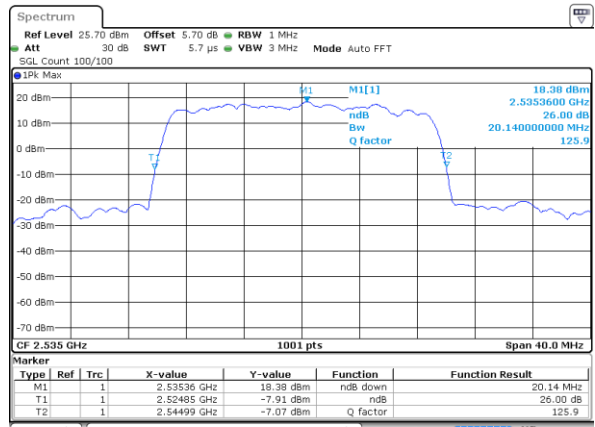
Date: 2 MAY 2019 19:30:34

Middle Channel / 20MHz / QPSK



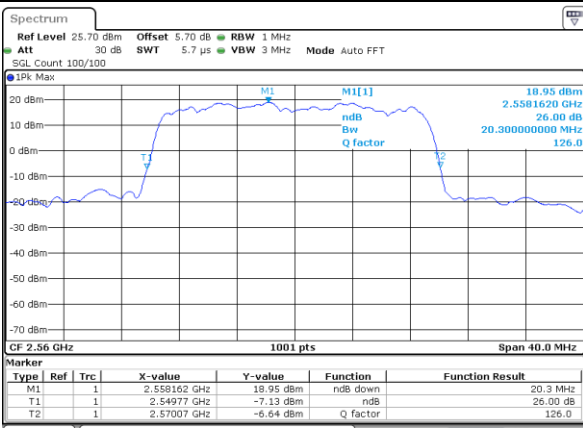
Date: 2 MAY 2019 19:31:14

Middle Channel / 20MHz / 16QAM



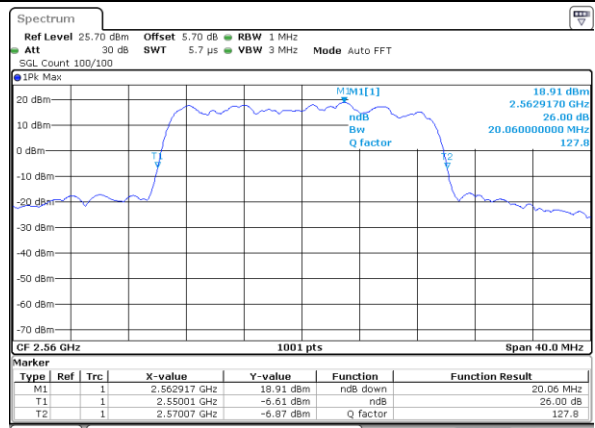
Date: 2 MAY 2019 19:31:34

Highest Channel / 20MHz / QPSK



Date: 2 MAY 2019 19:32:14

Highest Channel / 20MHz / 16QAM

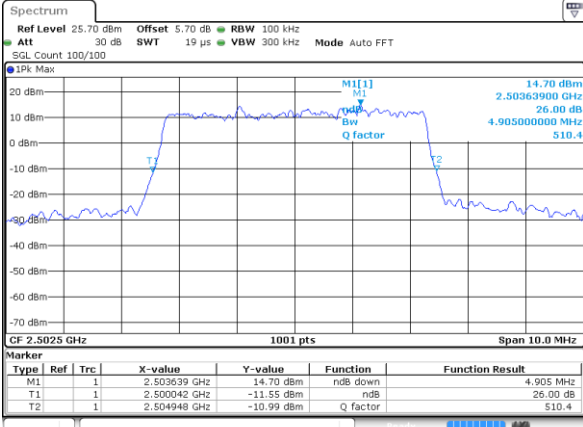


Date: 2 MAY 2019 19:31:54



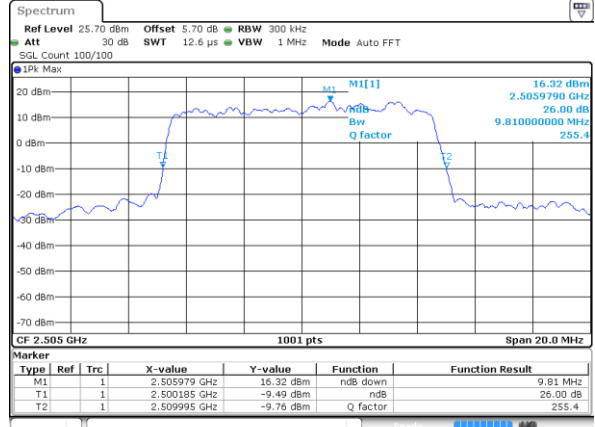
LTE Band 7

Lowest Channel / 5MHz / 64QAM



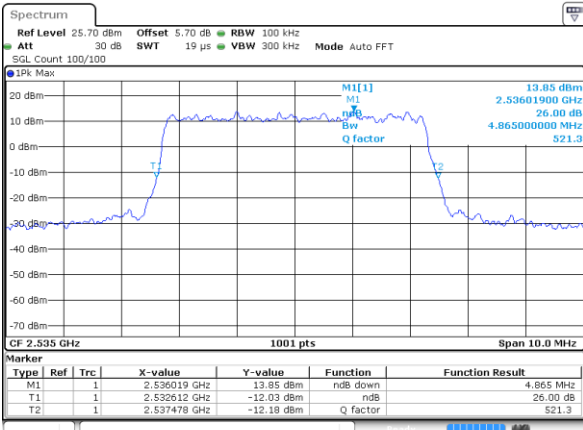
Date: 2 MAY 2019 19:47:23

Lowest Channel / 10MHz / 64QAM



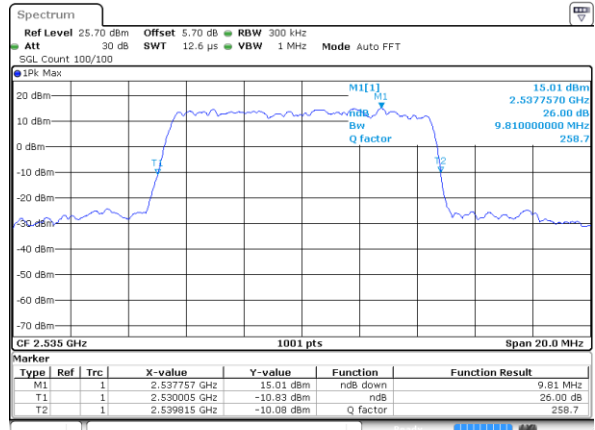
Date: 2 MAY 2019 19:55:38

Middle Channel / 5MHz / 64QAM



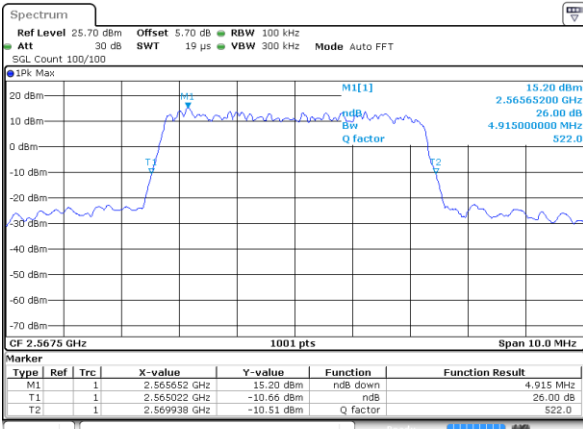
Date: 2 MAY 2019 19:47:33

Middle Channel / 10MHz / 64QAM



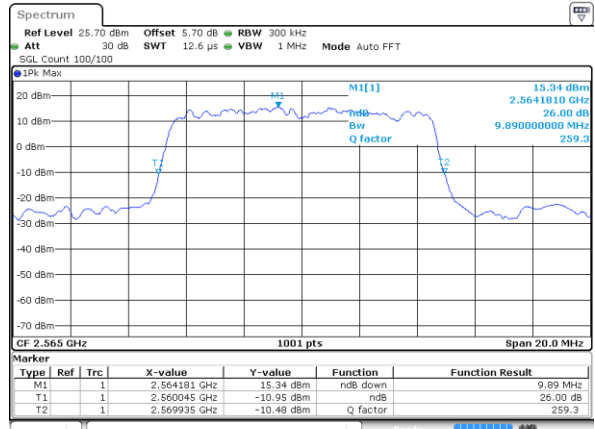
Date: 2 MAY 2019 19:55:48

Highest Channel / 5MHz / 64QAM



Date: 2 MAY 2019 19:47:43

Highest Channel / 10MHz / 64QAM

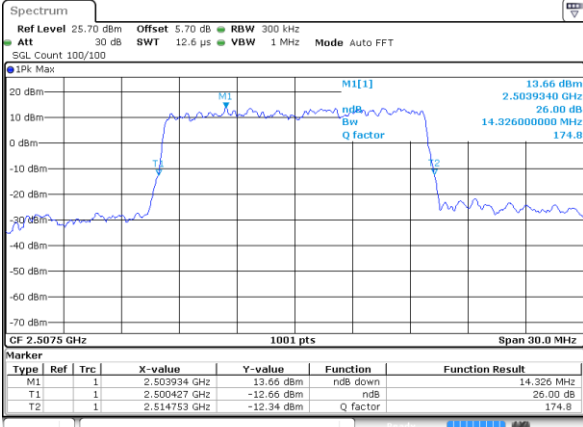


Date: 2 MAY 2019 19:55:58



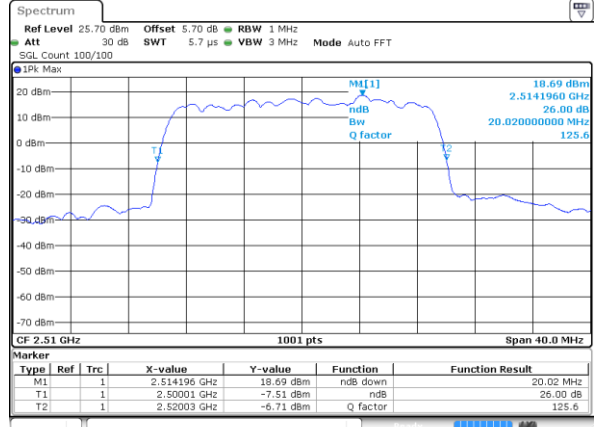
LTE Band 7

Lowest Channel / 15MHz / 64QAM



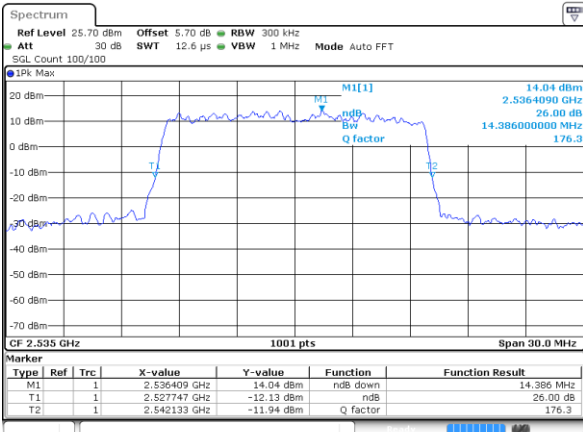
Date: 2 MAY 2019 20:03:52

Lowest Channel / 20MHz / 64QAM



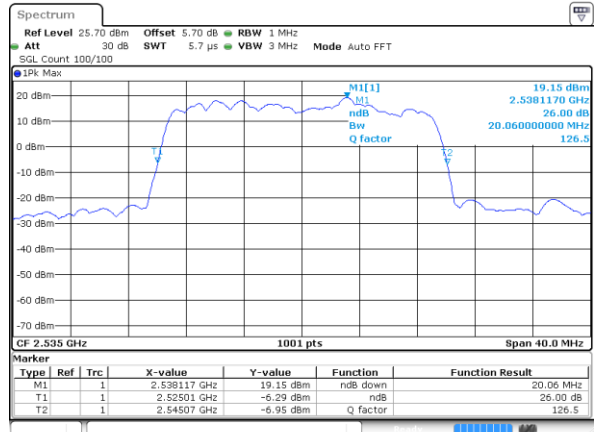
Date: 2 MAY 2019 20:12:07

Middle Channel / 15MHz / 64QAM



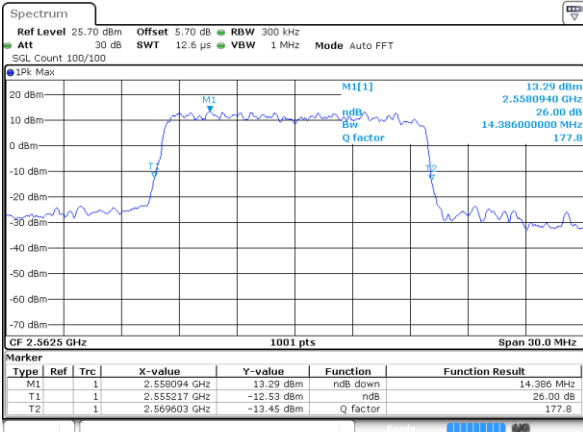
Date: 2 MAY 2019 20:04:02

Middle Channel / 20MHz / 64QAM



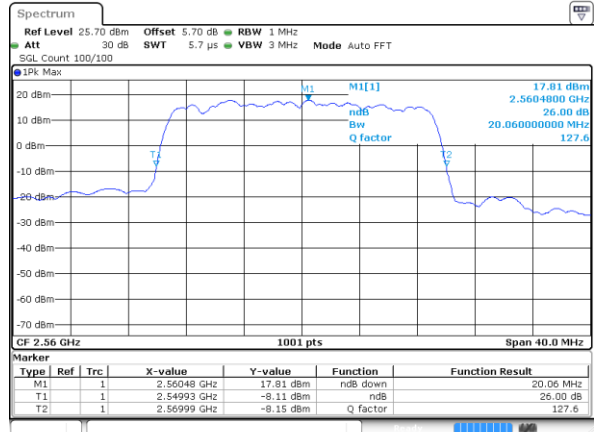
Date: 2 MAY 2019 20:12:17

Highest Channel / 15MHz / 64QAM



Date: 2 MAY 2019 20:04:12

Highest Channel / 20MHz / 64QAM



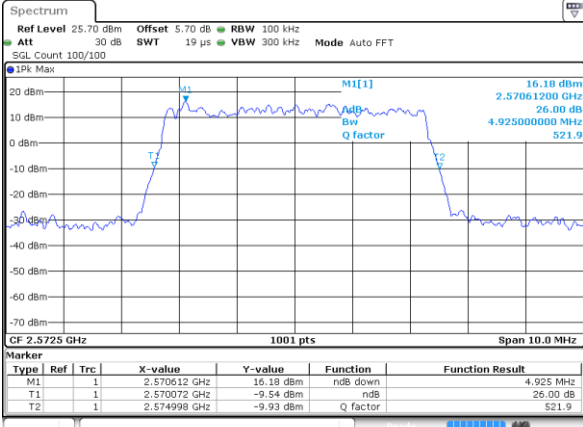
Date: 2 MAY 2019 20:12:27





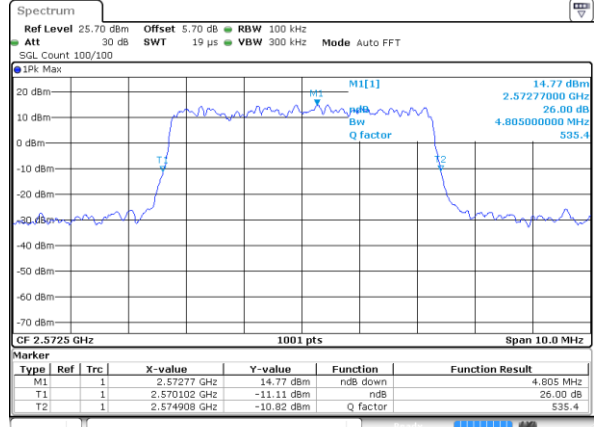
LTE Band 38

Lowest Channel / 5MHz / QPSK



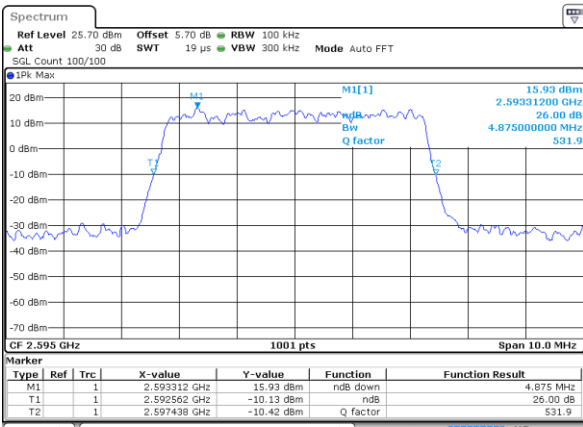
Date: 2 MAY 2019 22:49:22

Lowest Channel / 5MHz / 16QAM



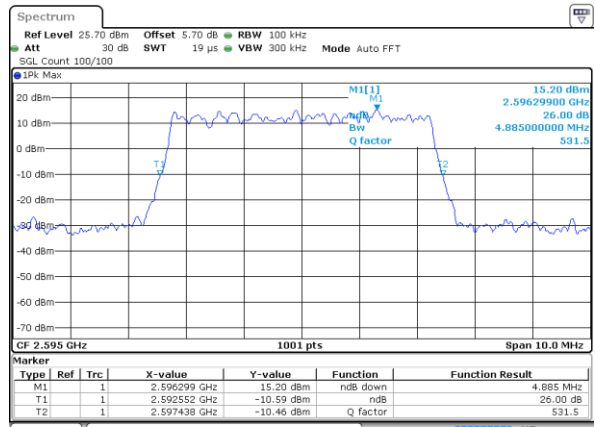
Date: 2 MAY 2019 22:49:32

Middle Channel / 5MHz / QPSK



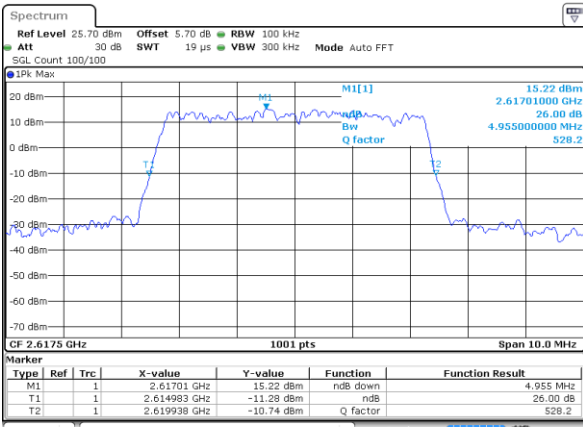
Date: 2 MAY 2019 23:10:38

Middle Channel / 5MHz / 16QAM



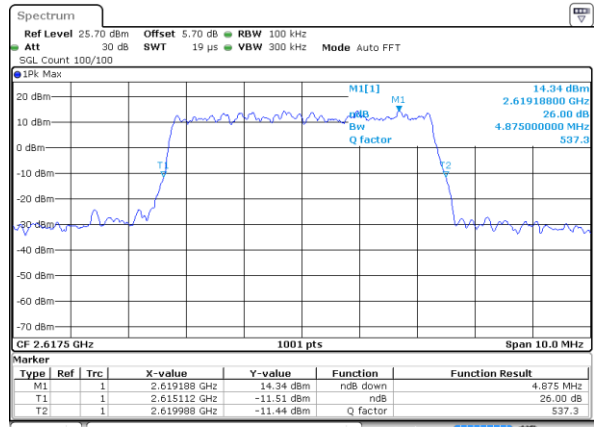
Date: 2 MAY 2019 22:50:12

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2019 22:50:42

Highest Channel / 5MHz / 16QAM

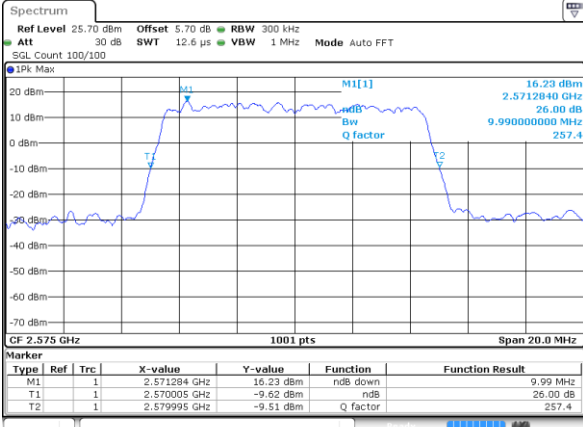


Date: 2 MAY 2019 23:10:53



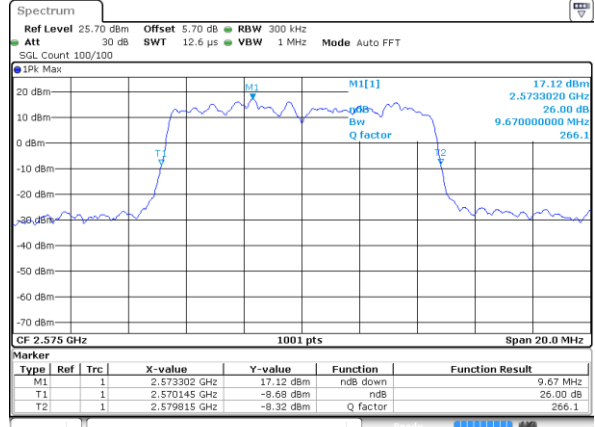
LTE Band 38

Lowest Channel / 10MHz / QPSK



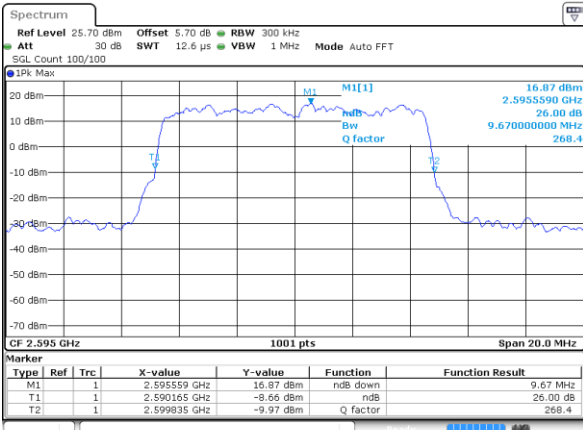
Date: 2 MAY 2019 22:51:22

Lowest Channel / 10MHz / 16QAM



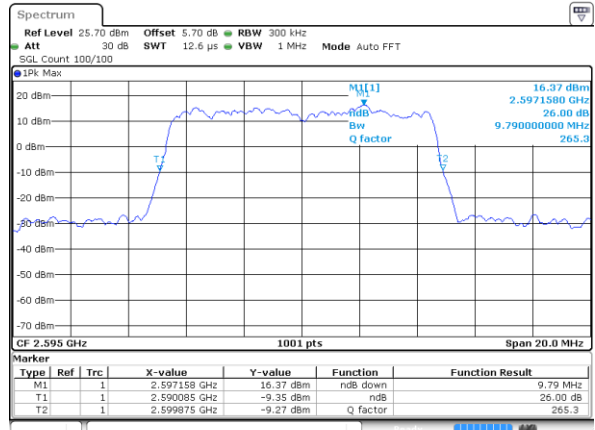
Date: 2 MAY 2019 22:51:32

Middle Channel / 10MHz / QPSK



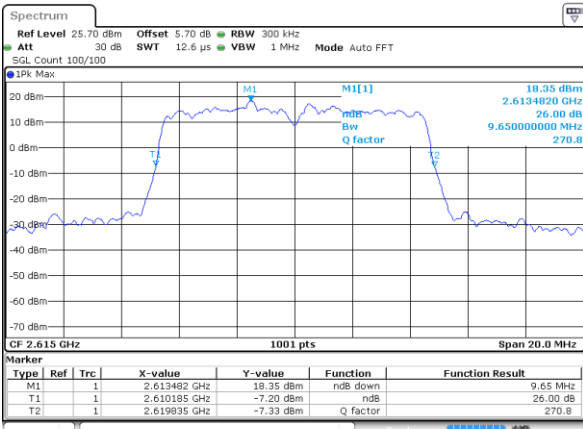
Date: 2 MAY 2019 22:52:02

Middle Channel / 10MHz / 16QAM



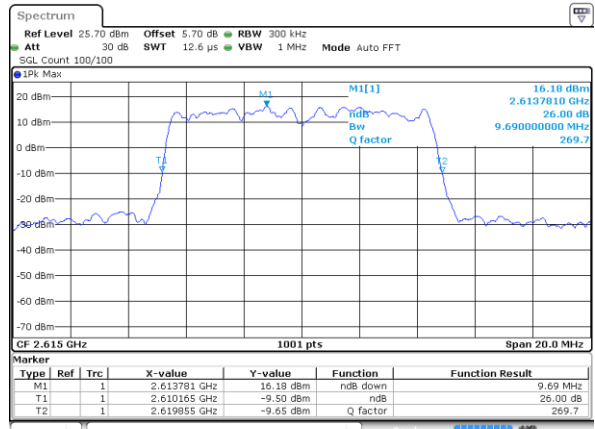
Date: 2 MAY 2019 22:52:12

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2019 22:52:42

Highest Channel / 10MHz / 16QAM

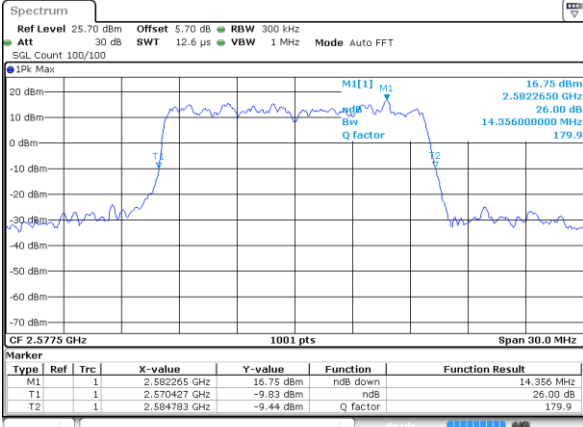


Date: 2 MAY 2019 22:52:53



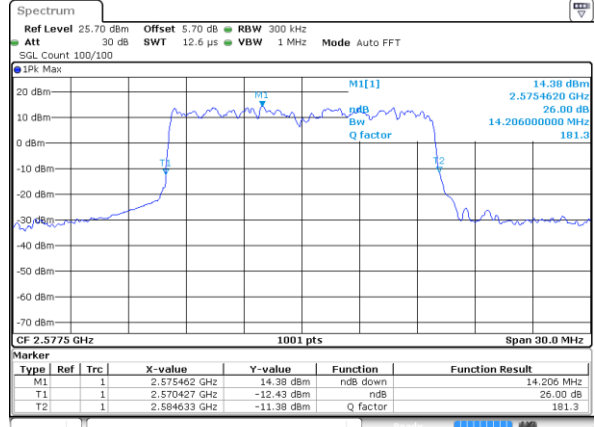
LTE Band 38

Lowest Channel / 15MHz / QPSK



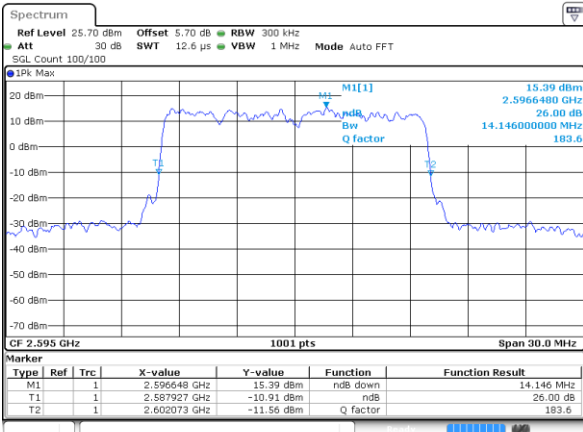
Date: 2 MAY 2019 22:53:23

Lowest Channel / 15MHz / 16QAM



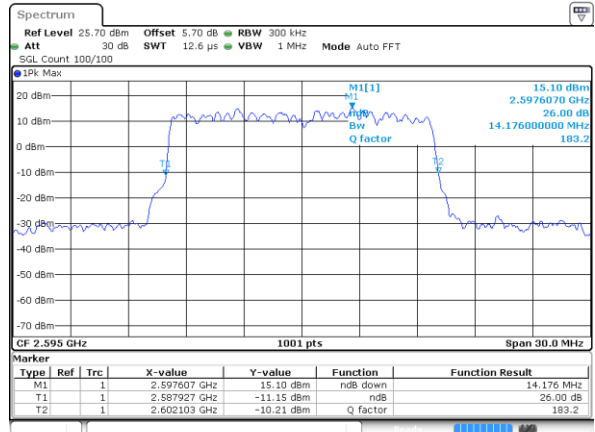
Date: 2 MAY 2019 22:53:33

Middle Channel / 15MHz / QPSK



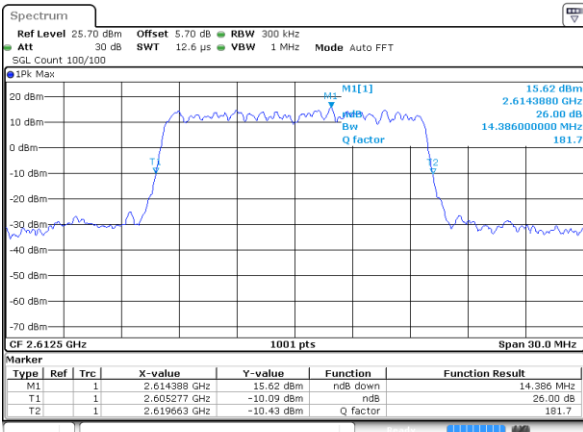
Date: 2 MAY 2019 22:54:03

Middle Channel / 15MHz / 16QAM



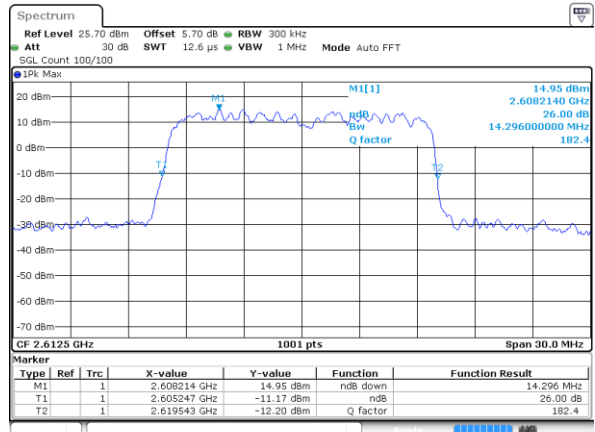
Date: 2 MAY 2019 22:54:13

Highest Channel / 15MHz / QPSK



Date: 2 MAY 2019 22:54:43

Highest Channel / 15MHz / 16QAM

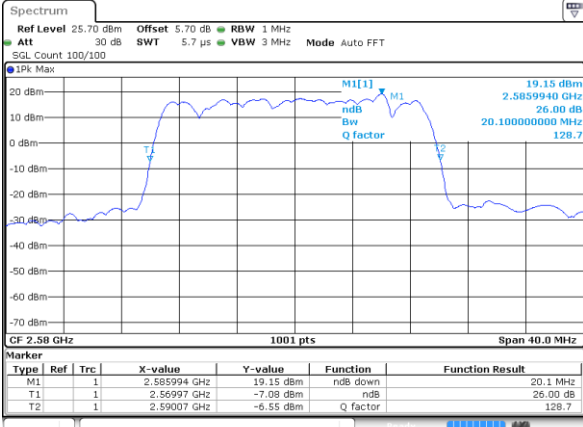


Date: 2 MAY 2019 22:54:53



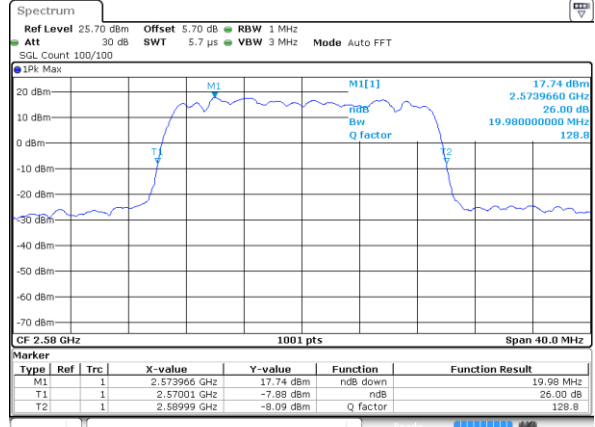
LTE Band 38

Lowest Channel / 20MHz / QPSK



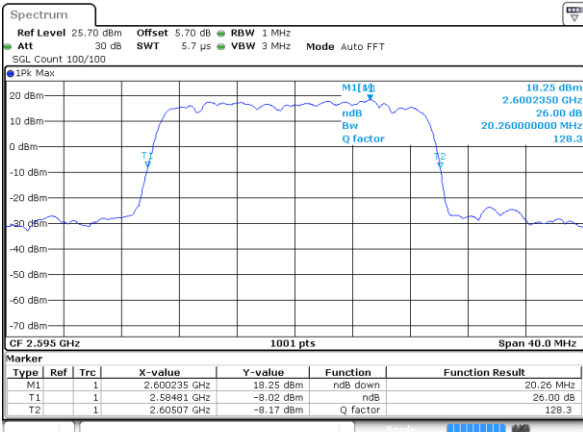
Date: 2 MAY 2019 22:55:23

Lowest Channel / 20MHz / 16QAM



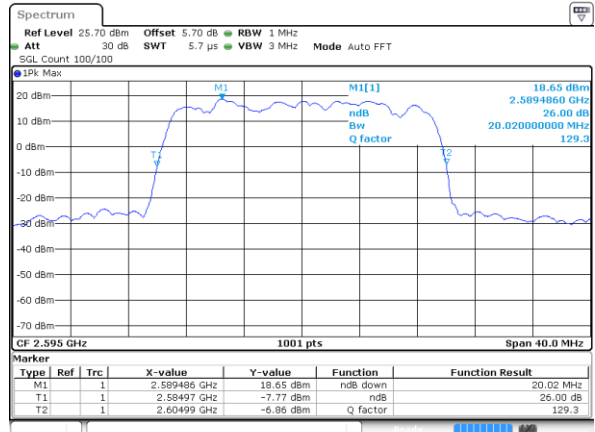
Date: 2 MAY 2019 22:55:33

Middle Channel / 20MHz / QPSK



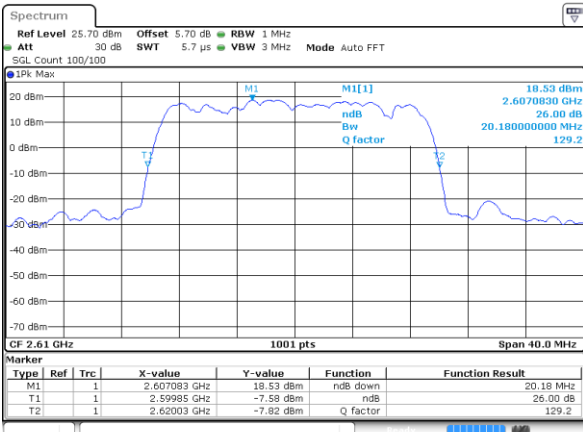
Date: 2 MAY 2019 22:56:03

Middle Channel / 20MHz / 16QAM



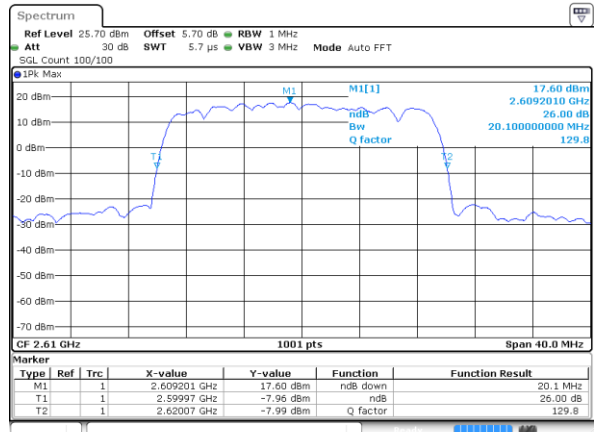
Date: 2 MAY 2019 22:56:13

Highest Channel / 20MHz / QPSK



Date: 2 MAY 2019 22:56:43

Highest Channel / 20MHz / 16QAM

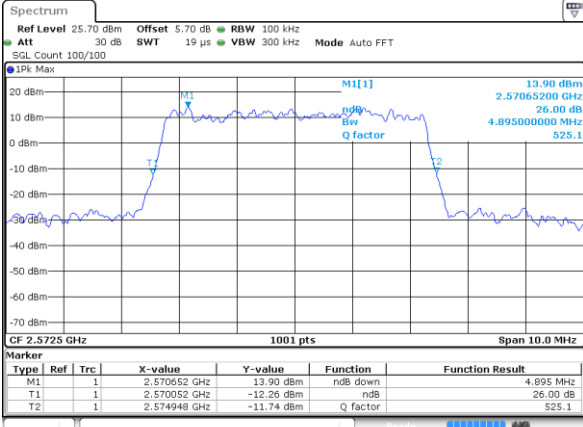


Date: 2 MAY 2019 22:56:53



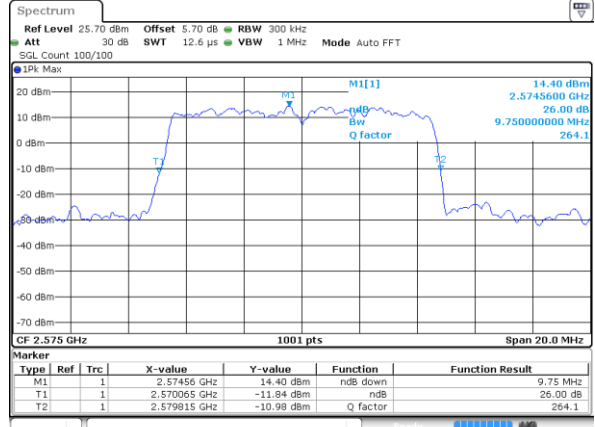
LTE Band 38

Lowest Channel / 5MHz / 64QAM



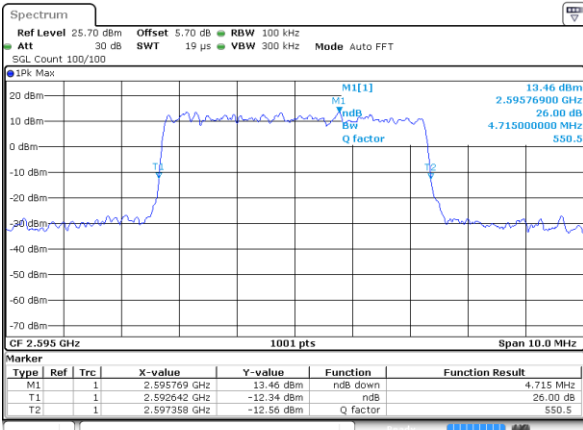
Date: 2 MAY 2019 22:57:13

Lowest Channel / 10MHz / 64QAM



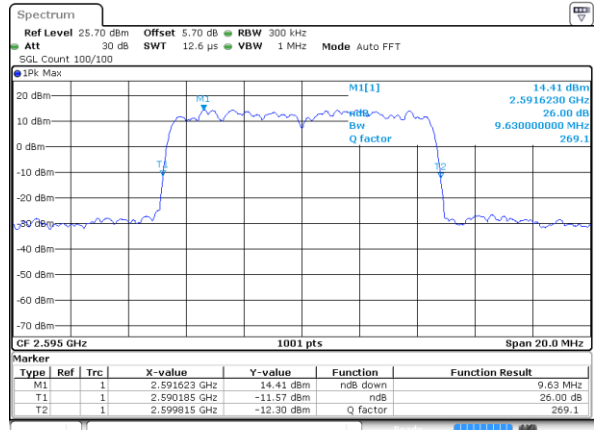
Date: 2 MAY 2019 22:58:14

Middle Channel / 5MHz / 64QAM



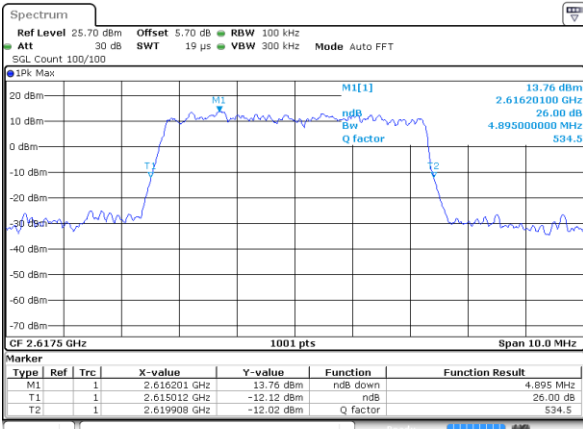
Date: 2 MAY 2019 22:57:34

Middle Channel / 10MHz / 64QAM



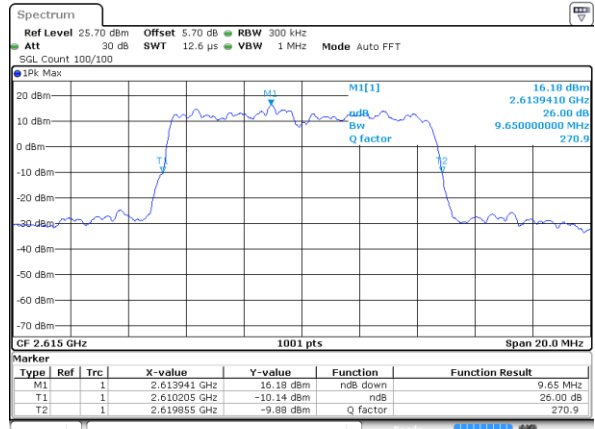
Date: 2 MAY 2019 22:58:34

Highest Channel / 5MHz / 64QAM



Date: 2 MAY 2019 22:57:54

Highest Channel / 10MHz / 64QAM

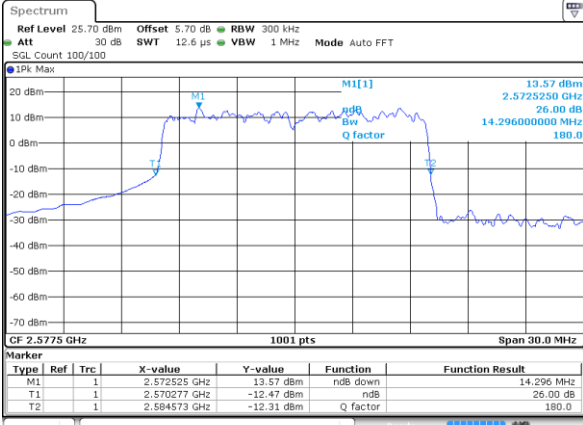


Date: 2 MAY 2019 22:58:54



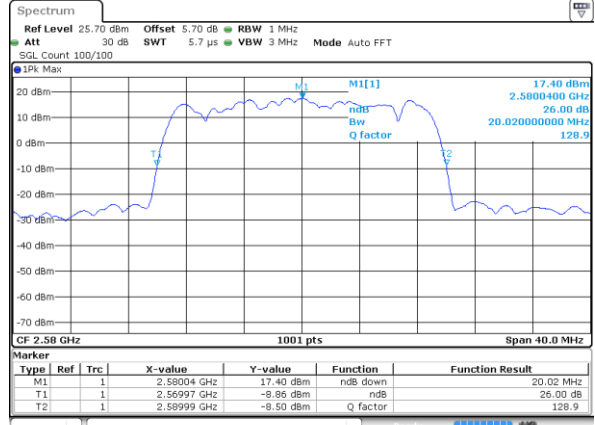
LTE Band 38

Lowest Channel / 15MHz / 64QAM



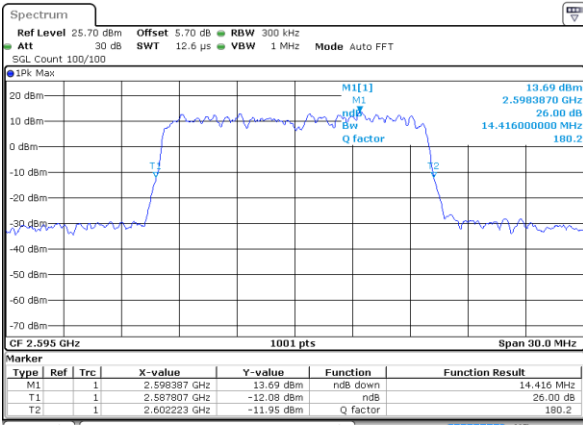
Date: 2 MAY 2019 22:59:14

Lowest Channel / 20MHz / 64QAM



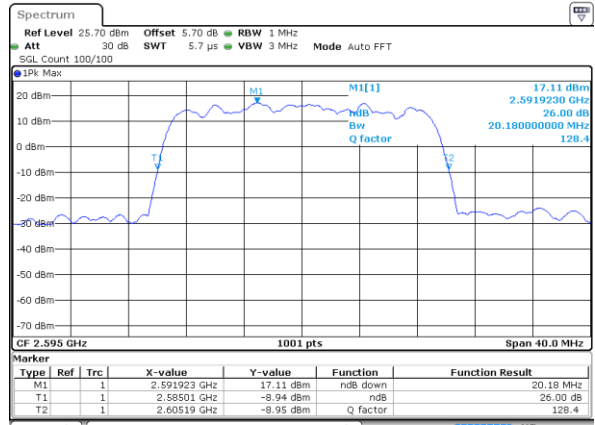
Date: 2 MAY 2019 23:00:14

Middle Channel / 15MHz / 64QAM



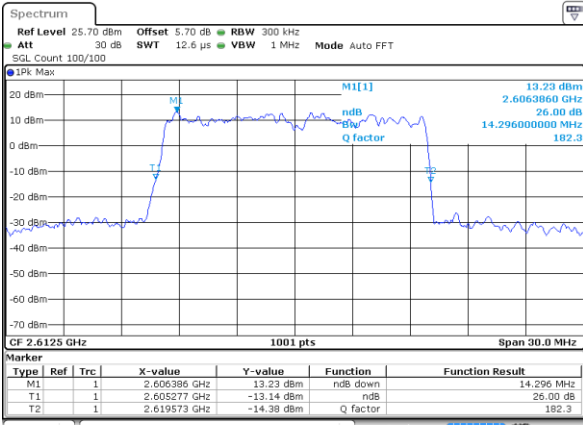
Date: 2 MAY 2019 22:59:34

Middle Channel / 20MHz / 64QAM



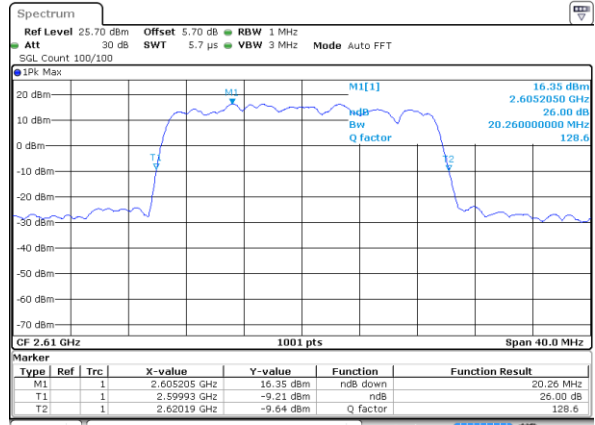
Date: 2 MAY 2019 23:00:34

Highest Channel / 15MHz / 64QAM



Date: 2 MAY 2019 22:59:54

Highest Channel / 20MHz / 64QAM



Date: 2 MAY 2019 23:00:54



### 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	1.10	2.72	2.73	4.51	4.50	9.05	8.99	13.40	13.43	18.34	18.26	
Middle CH	1.09	1.09	2.71	2.72	4.50	4.50	8.93	9.03	13.49	13.43	18.26	18.14	
Highest CH	1.10	1.10	2.71	2.75	4.50	4.49	9.01	9.01	13.40	13.43	18.30	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		4.50		9.03		13.43		18.34		
Middle CH	1.09		2.73		4.49		9.03		13.34		18.30		
Highest CH	1.10		2.74		4.48		9.01		13.43		18.34		

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	2.71	2.73	4.49	4.50	9.01	9.01	13.37	13.46	18.26	18.18	
Middle CH	1.09	1.10	2.72	2.71	4.50	4.49	8.93	9.03	13.40	13.40	18.34	18.30	
Highest CH	1.09	1.09	2.73	2.73	4.49	4.51	8.99	8.95	13.40	13.40	18.30	18.34	
Mode		LTE Band 4 : 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		9.01		13.34		18.14		
Middle CH	1.09		2.73		4.53		9.05		13.40		18.18		
Highest CH	1.09		2.72		4.49		9.01		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	2.71	4.51	4.49	8.99	9.01				
Middle CH	1.09	1.09	2.72	2.71	4.48	4.51	8.97	8.99				
Highest CH	1.09	1.10	2.73	2.70	4.47	4.49	9.01	9.01				
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM		64QAM		64QAM		64QAM					
Lowest CH	1.10		2.72		4.51		8.99		-	-	-	-
Middle CH	1.09		2.73		4.50		9.01		-	-	-	-
Highest CH	1.09		2.72		4.49		8.95		-	-	-	-

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	8.99	13.40	13.34	18.22	18.14	4.50	9.01	13.40	18.34
Middle CH	4.51	4.49	9.01	8.99	13.37	13.46	18.30	18.30	4.49	9.01	13.43	18.26
Highest CH	4.50	4.50	8.91	9.01	13.43	13.40	18.30	18.34	4.50	9.01	13.40	18.22

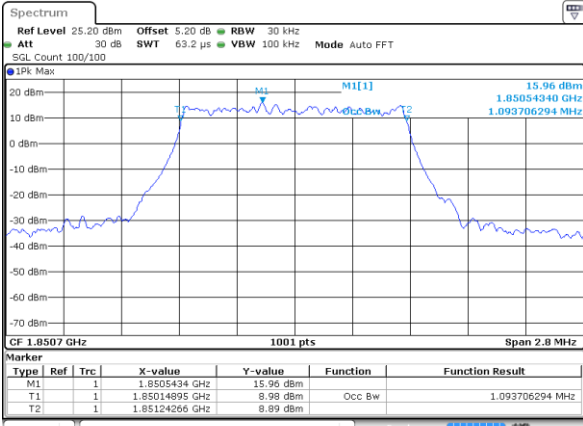
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.51	4.47	8.99	9.17	13.37	13.46	18.22	18.18
Middle CH					4.50	4.48	8.99	9.05	13.40	13.46	18.22	18.34
Highest CH					4.48	4.51	9.05	8.93	13.40	13.52	18.14	18.26
Mode	LTE Band 38 : 99%OBW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50		8.99		13.40		18.34	
Middle CH	-	-	-	-	4.50		9.01		13.46		18.46	
Highest CH	-	-	-	-	4.51		9.01		13.40		18.30	





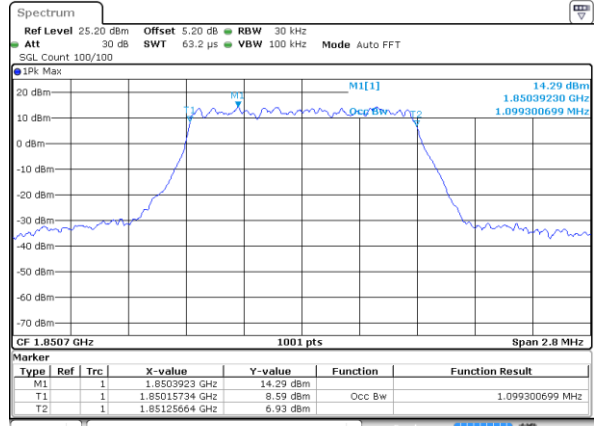
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



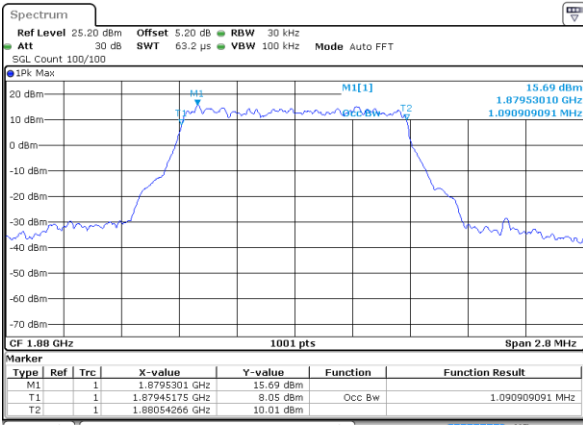
Date: 2 MAY 2019 08:37:08

Lowest Channel / 1.4MHz / 16QAM



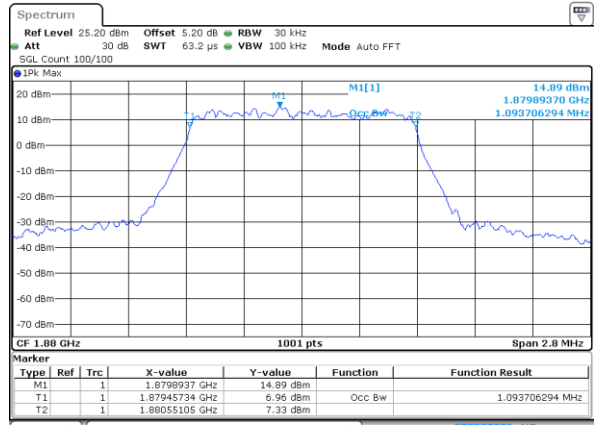
Date: 2 MAY 2019 08:37:18

Middle Channel / 1.4MHz / QPSK



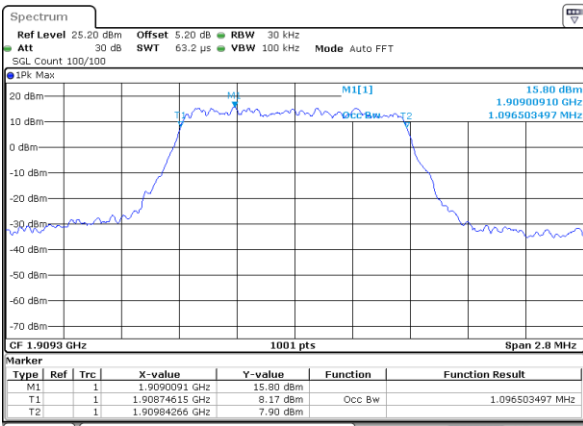
Date: 2 MAY 2019 08:44:08

Middle Channel / 1.4MHz / 16QAM



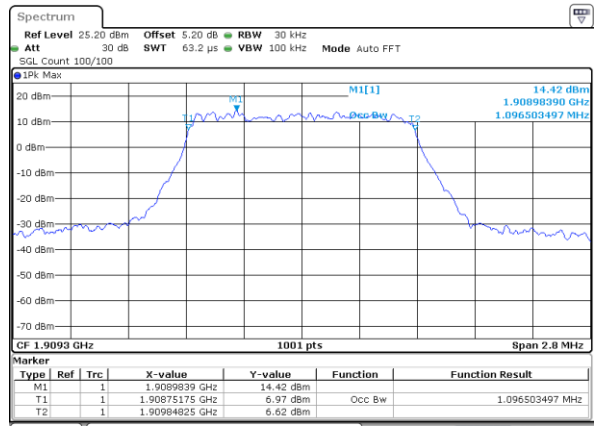
Date: 2 MAY 2019 08:44:18

Highest Channel / 1.4MHz / QPSK



Date: 2 MAY 2019 08:45:43

Highest Channel / 1.4MHz / 16QAM

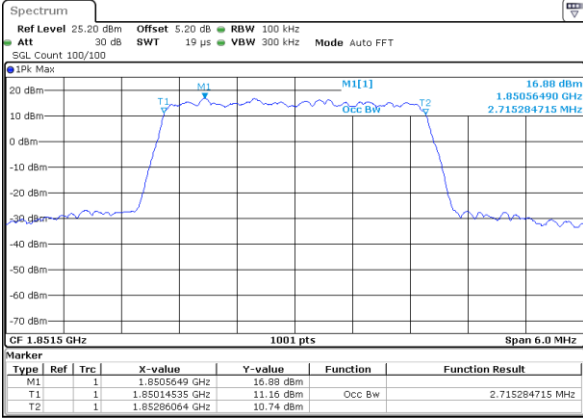


Date: 2 MAY 2019 08:45:53



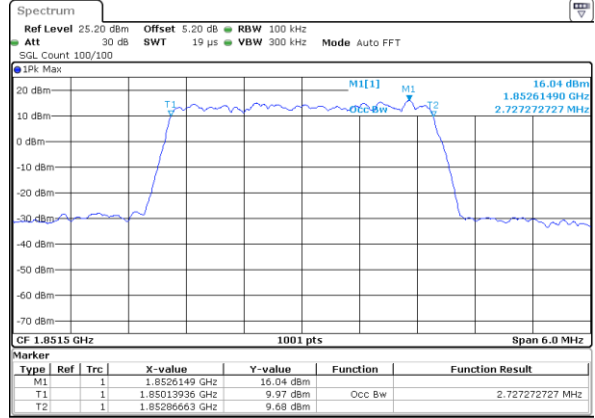
LTE Band 2

Lowest Channel / 3MHz / QPSK



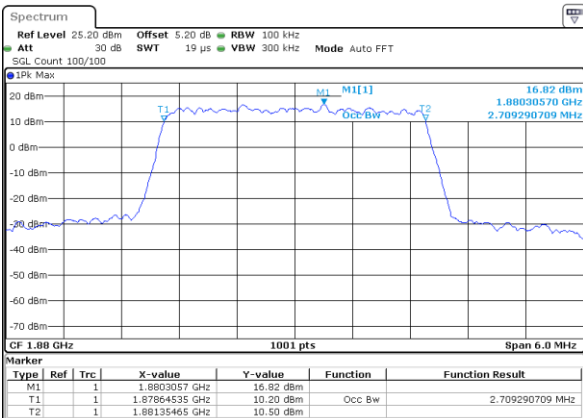
Date: 2 MAY 2019 08:52:43

Lowest Channel / 3MHz / 16QAM



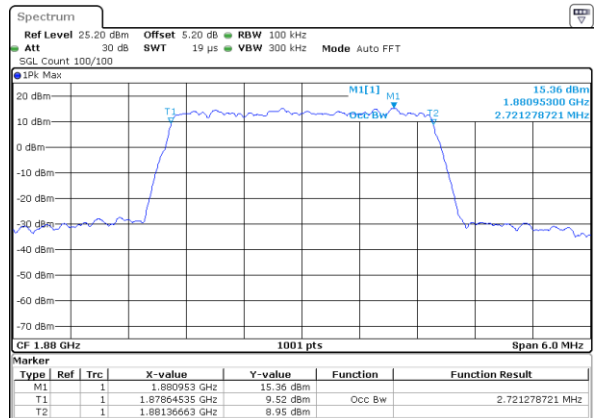
Date: 2 MAY 2019 08:52:53

Middle Channel / 3MHz / QPSK



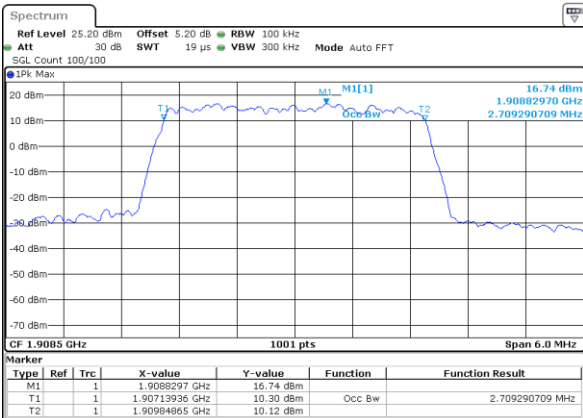
Date: 2 MAY 2019 08:59:42

Middle Channel / 3MHz / 16QAM



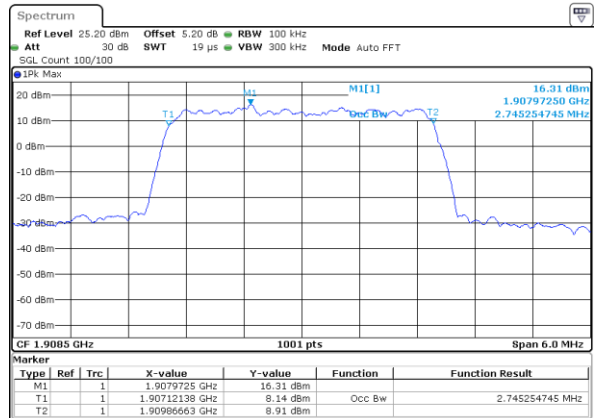
Date: 2 MAY 2019 08:59:52

Highest Channel / 3MHz / QPSK



Date: 2 MAY 2019 09:02:11

Highest Channel / 3MHz / 16QAM

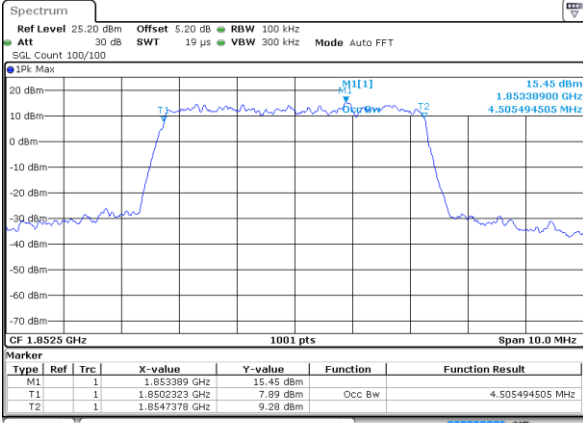


Date: 2 MAY 2019 09:02:21



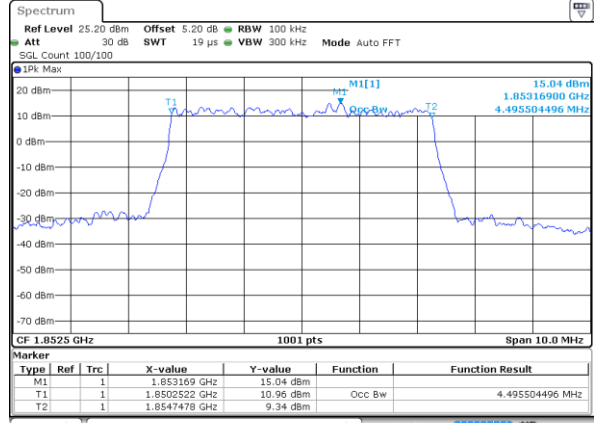
LTE Band 2

Lowest Channel / 5MHz / QPSK



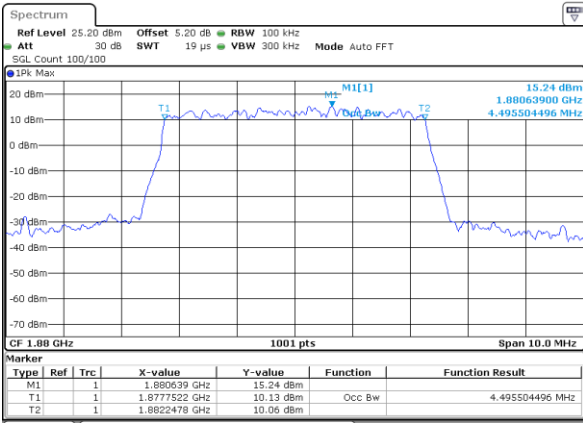
Date: 2 MAY 2019 09:09:11

Lowest Channel / 5MHz / 16QAM



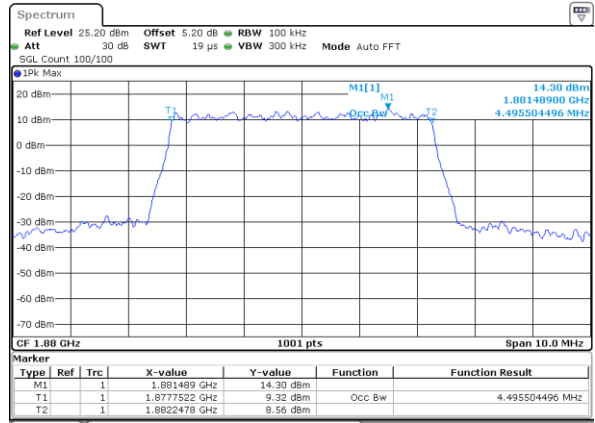
Date: 2 MAY 2019 09:09:21

Middle Channel / 5MHz / QPSK



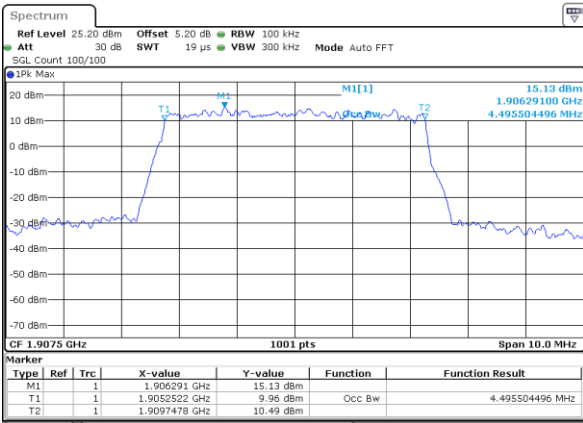
Date: 2 MAY 2019 09:16:10

Middle Channel / 5MHz / 16QAM



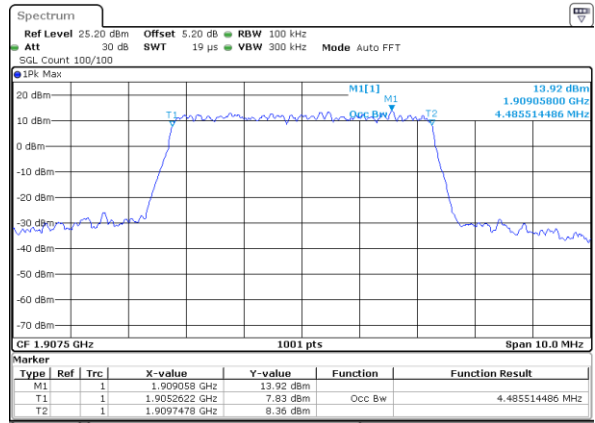
Date: 2 MAY 2019 09:16:20

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2019 09:18:40

Highest Channel / 5MHz / 16QAM

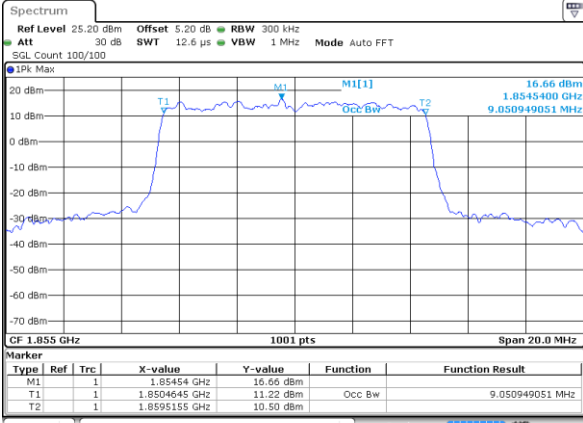


Date: 2 MAY 2019 09:18:50



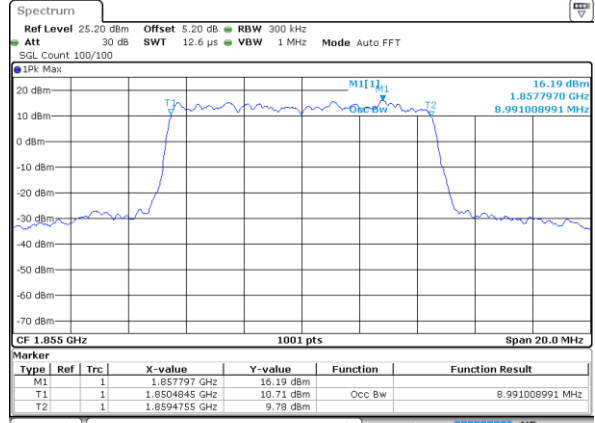
LTE Band 2

Lowest Channel / 10MHz / QPSK



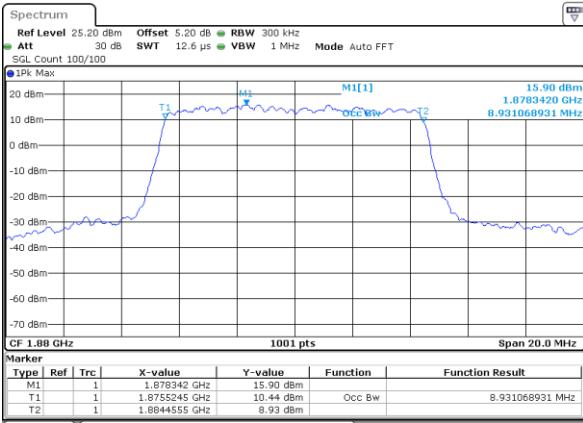
Date: 2 MAY 2019 09:25:40

Lowest Channel / 10MHz / 16QAM



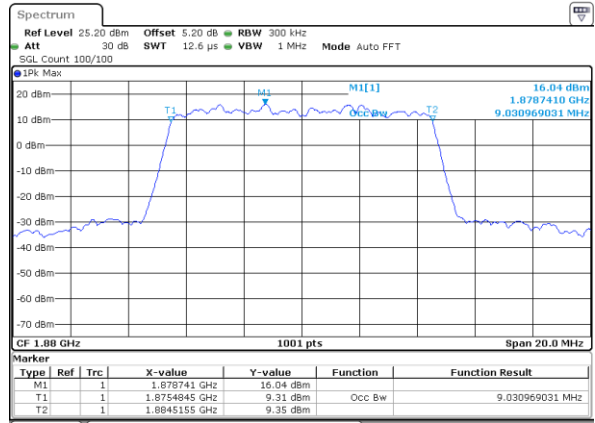
Date: 2 MAY 2019 09:25:50

Middle Channel / 10MHz / QPSK



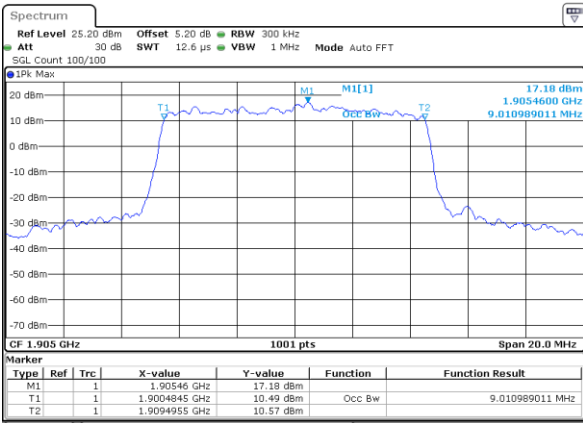
Date: 2 MAY 2019 09:32:39

Middle Channel / 10MHz / 16QAM



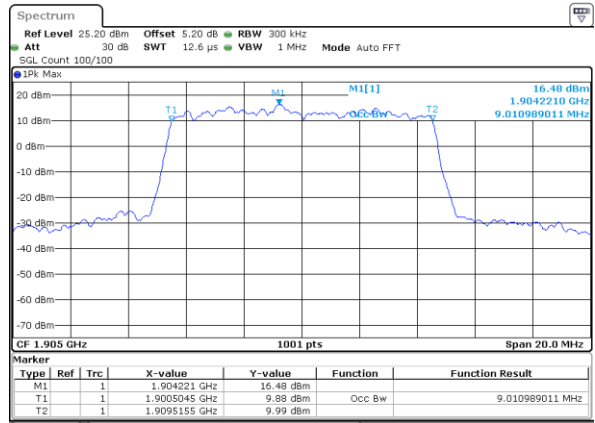
Date: 2 MAY 2019 09:32:49

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2019 09:35:09

Highest Channel / 10MHz / 16QAM

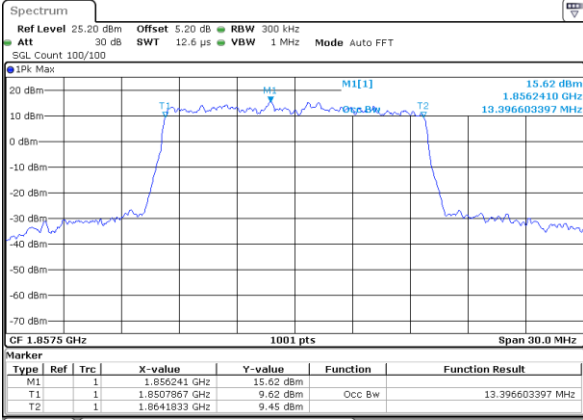


Date: 2 MAY 2019 09:35:19



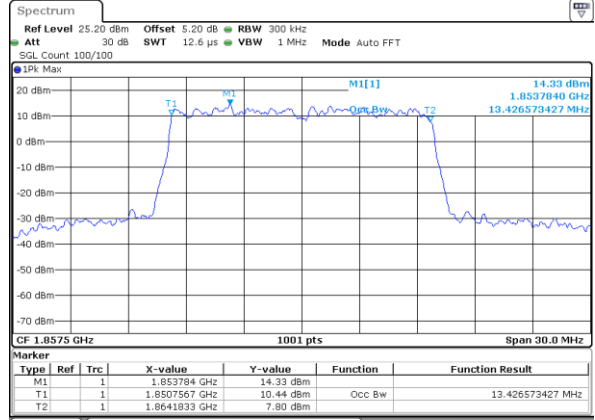
LTE Band 2

Lowest Channel / 15MHz / QPSK



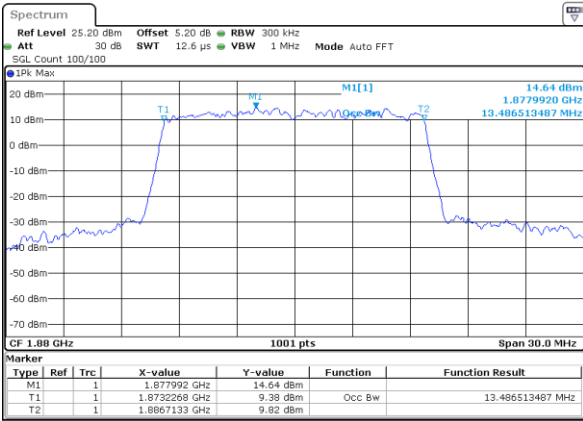
Date: 2 MAY 2019 09:42:08

Lowest Channel / 15MHz / 16QAM



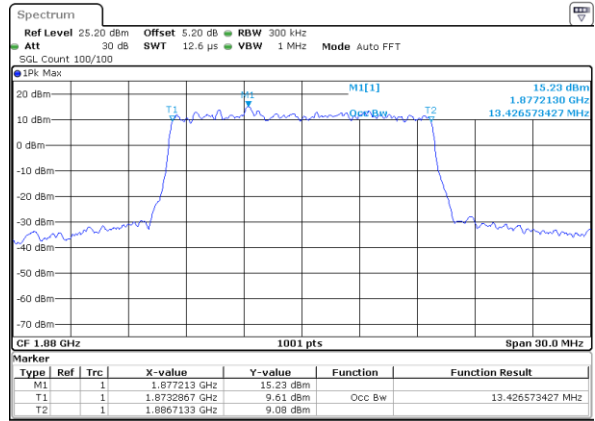
Date: 2 MAY 2019 09:42:18

Middle Channel / 15MHz / QPSK



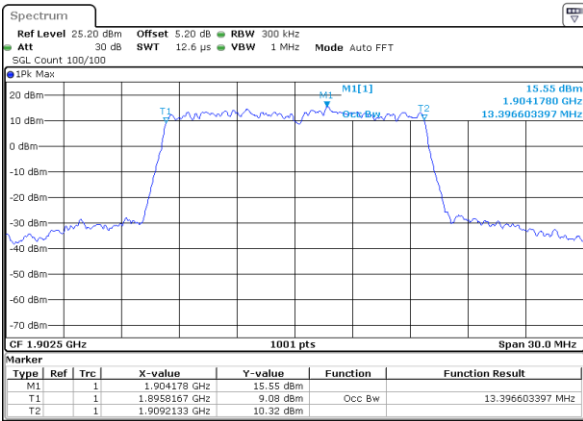
Date: 2 MAY 2019 09:49:08

Middle Channel / 15MHz / 16QAM



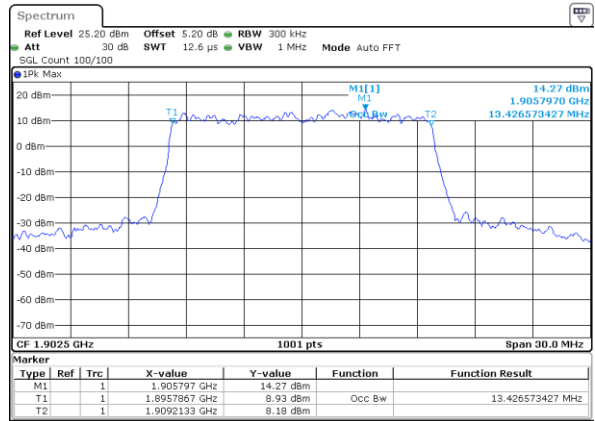
Date: 2 MAY 2019 09:49:18

Highest Channel / 15MHz / QPSK



Date: 2 MAY 2019 09:51:37

Highest Channel / 15MHz / 16QAM

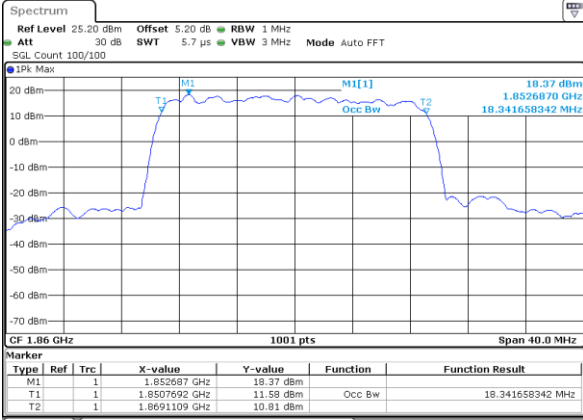


Date: 2 MAY 2019 09:51:47



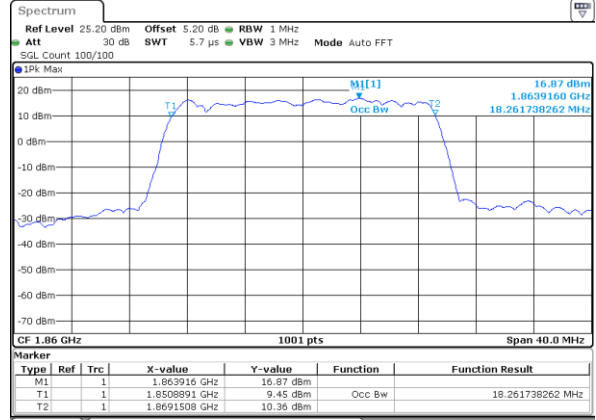
LTE Band 2

Lowest Channel / 20MHz / QPSK



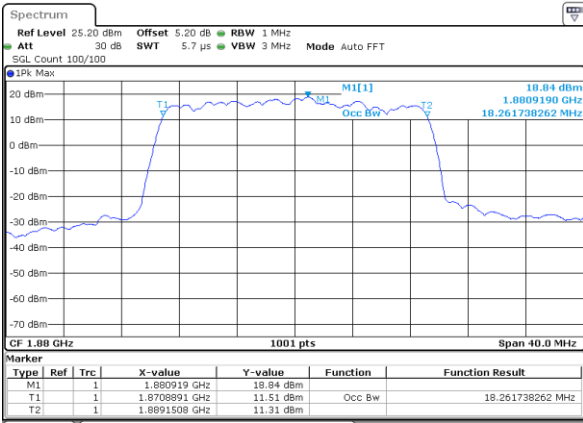
Date: 2 MAY 2019 09:58:36

Lowest Channel / 20MHz / 16QAM



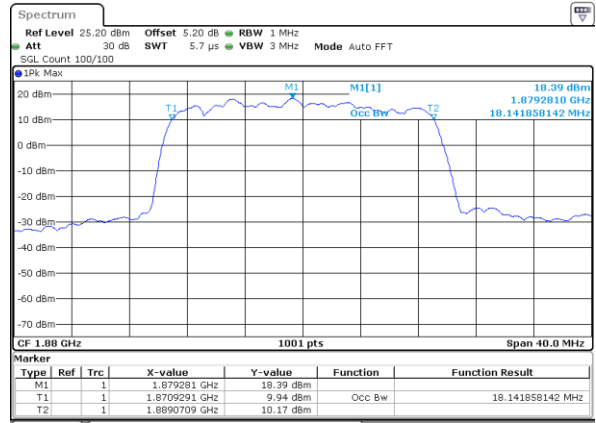
Date: 2 MAY 2019 09:58:46

Middle Channel / 20MHz / QPSK



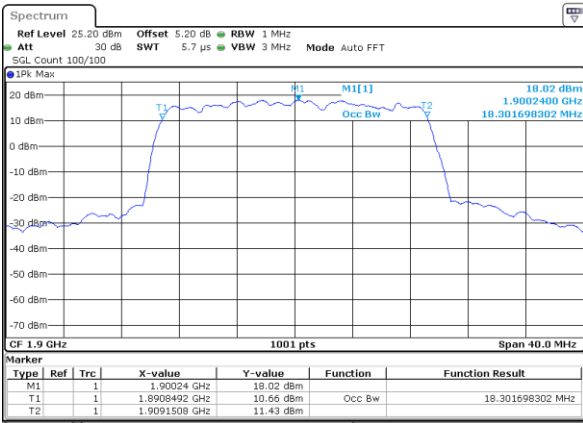
Date: 2 MAY 2019 10:05:36

Middle Channel / 20MHz / 16QAM



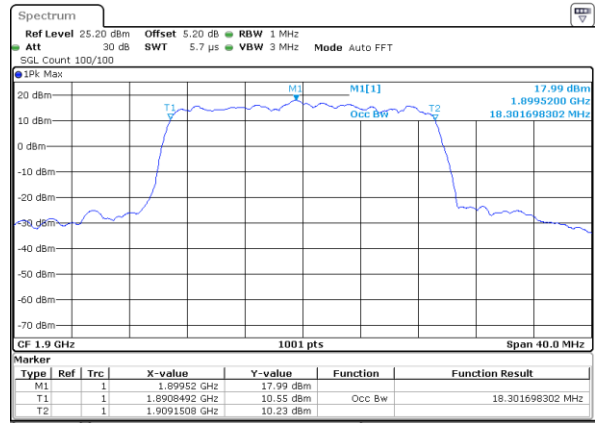
Date: 2 MAY 2019 10:05:46

Highest Channel / 20MHz / QPSK



Date: 2 MAY 2019 10:08:06

Highest Channel / 20MHz / 16QAM

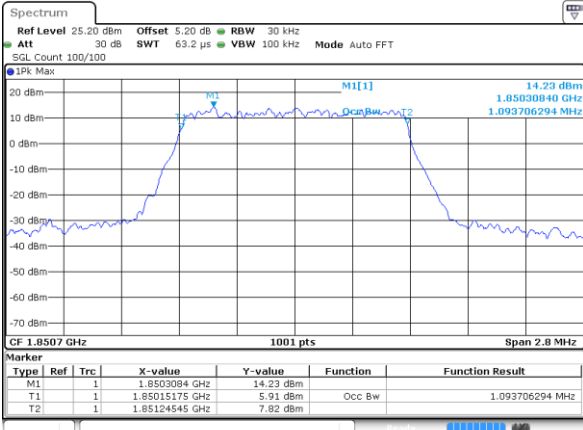


Date: 2 MAY 2019 10:08:16



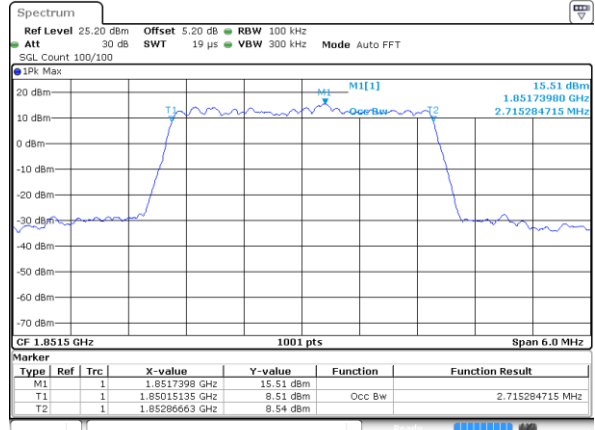
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



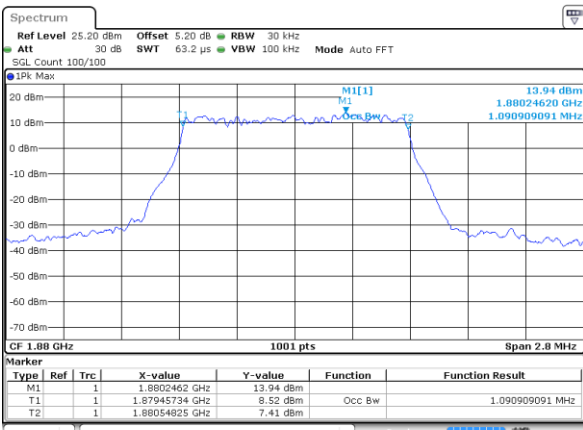
Date: 2 MAY 2019 10:57:35

Lowest Channel / 3MHz / 64QAM



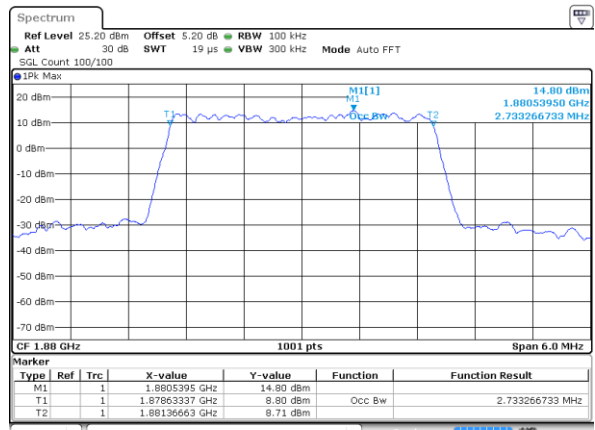
Date: 2 MAY 2019 11:03:31

Middle Channel / 1.4MHz / 64QAM



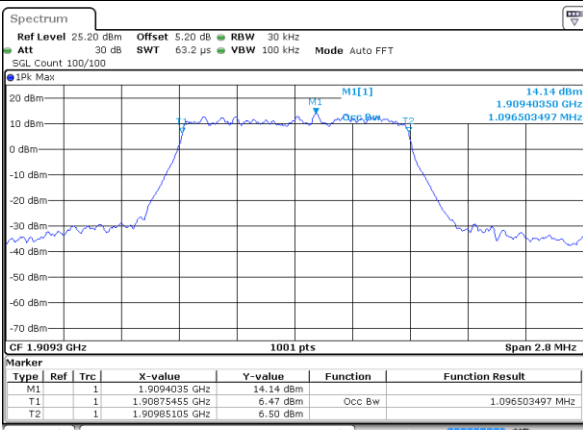
Date: 2 MAY 2019 12:03:23

Middle Channel / 3MHz / 64QAM



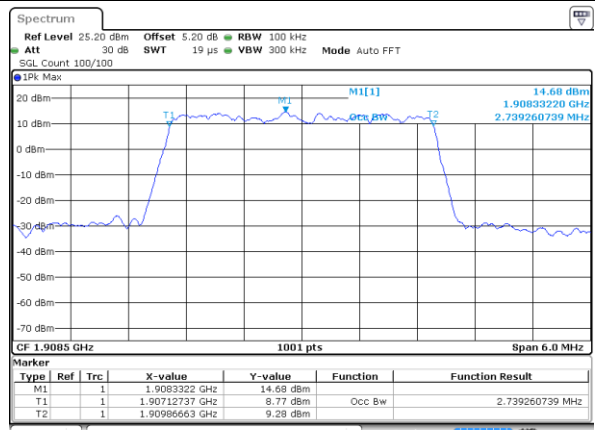
Date: 2 MAY 2019 11:03:42

Highest Channel / 1.4MHz / 64QAM



Date: 2 MAY 2019 11:03:21

Highest Channel / 3MHz / 64QAM

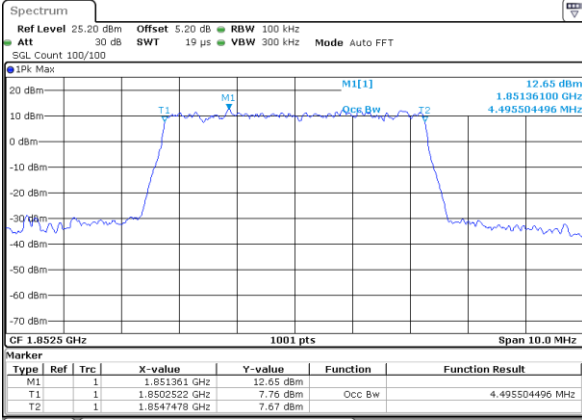


Date: 2 MAY 2019 11:03:52



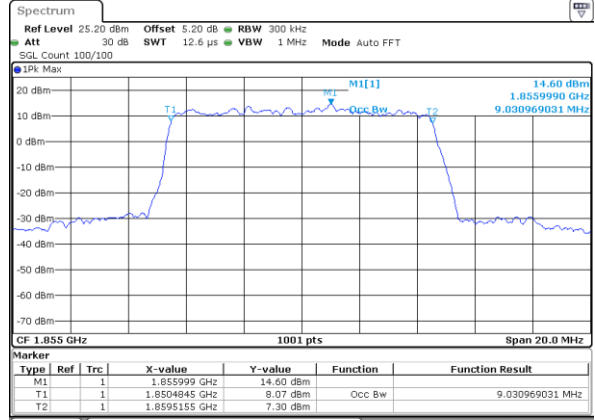
LTE Band 2

Lowest Channel / 5MHz / 64QAM



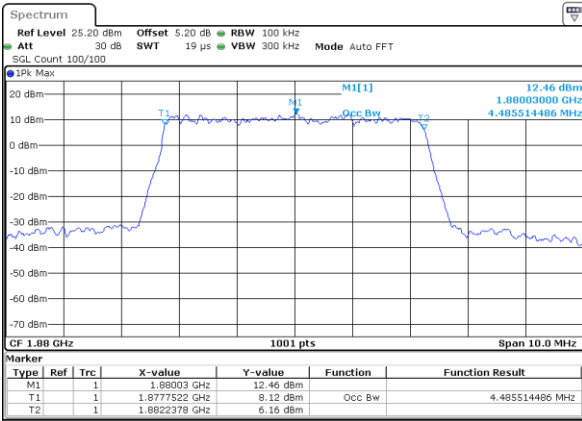
Date: 2 MAY 2019 11:04:02

Lowest Channel / 10MHz / 64QAM



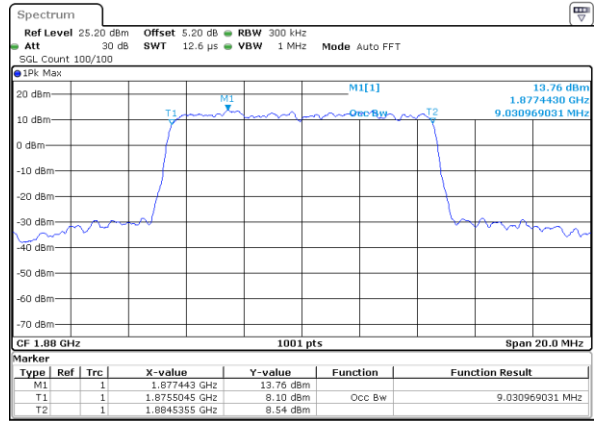
Date: 2 MAY 2019 11:04:32

Middle Channel / 5MHz / 64QAM



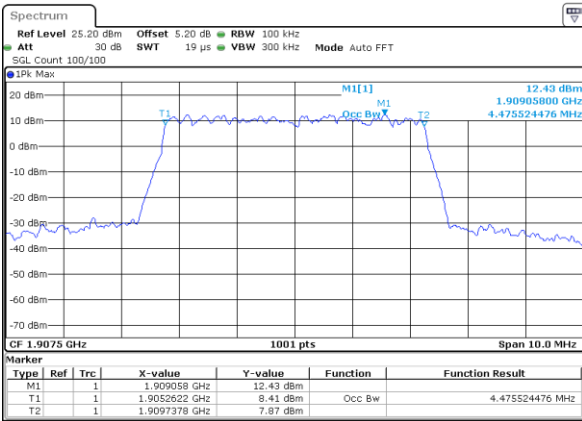
Date: 2 MAY 2019 11:04:12

Middle Channel / 10MHz / 64QAM



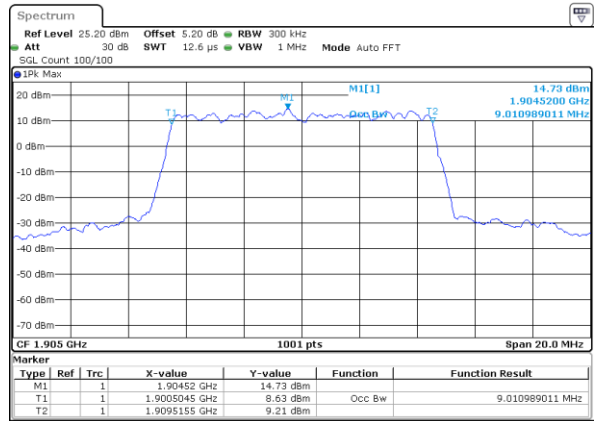
Date: 2 MAY 2019 11:04:42

Highest Channel / 5MHz / 64QAM



Date: 2 MAY 2019 11:04:22

Highest Channel / 10MHz / 64QAM



Date: 2 MAY 2019 11:04:52