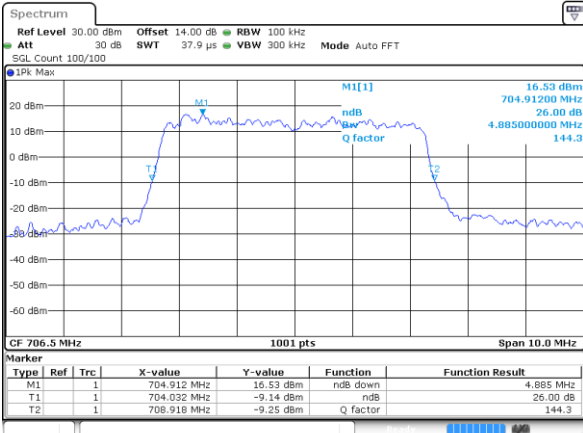




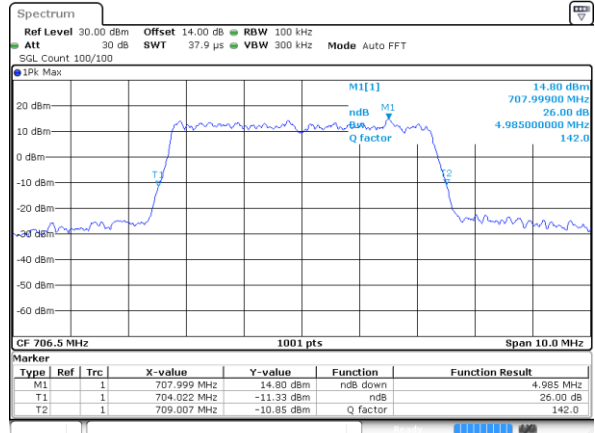
LTE Band 17

Lowest Channel / 5MHz / QPSK



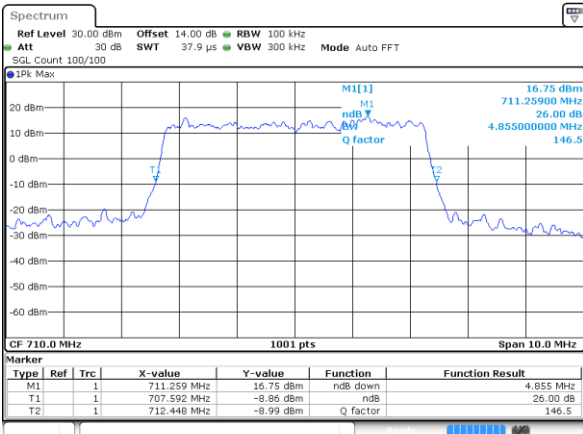
Date: 14 JAN 2019 23:28:19

Lowest Channel / 5MHz / 16QAM



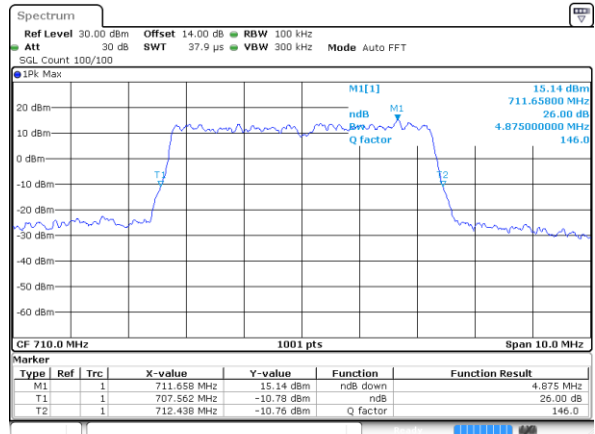
Date: 14 JAN 2019 23:28:30

Middle Channel / 5MHz / QPSK



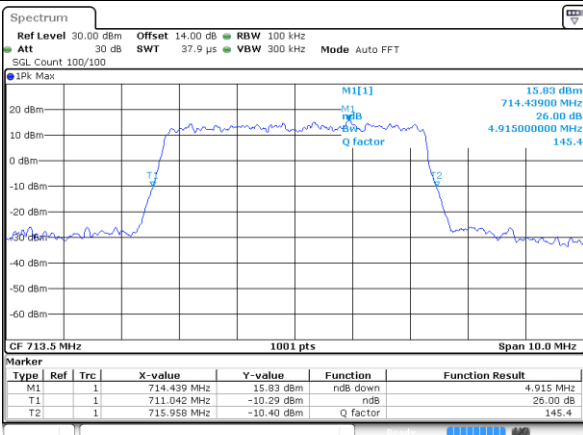
Date: 14 JAN 2019 23:35:26

Middle Channel / 5MHz / 16QAM



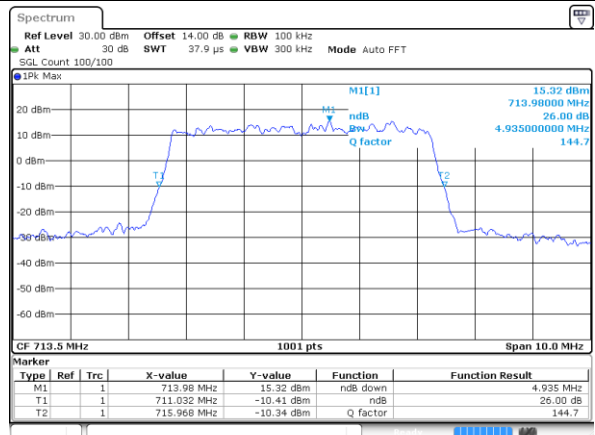
Date: 14 JAN 2019 23:35:36

Highest Channel / 5MHz / QPSK



Date: 14 JAN 2019 23:37:56

Highest Channel / 5MHz / 16QAM

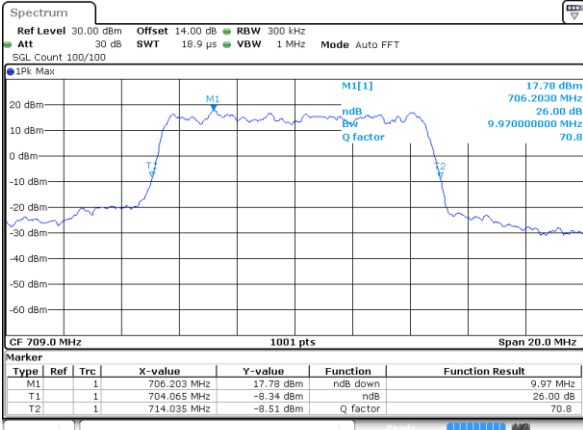


Date: 14 JAN 2019 23:38:07



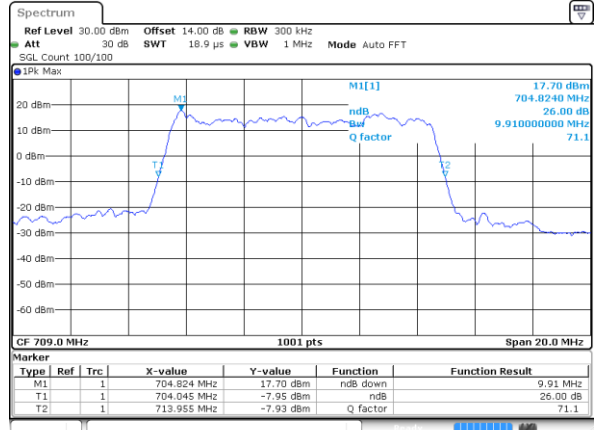
LTE Band 17

Lowest Channel / 10MHz / QPSK



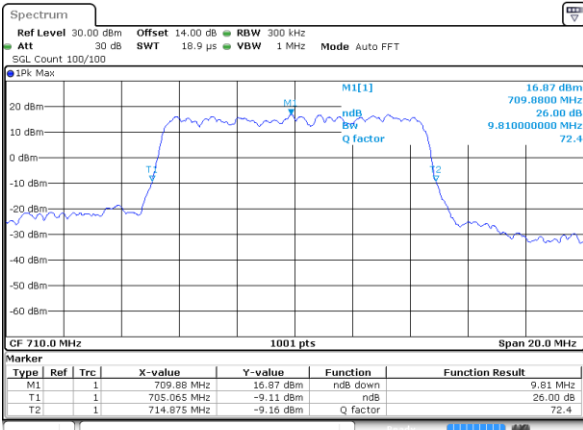
Date: 14 JAN 2019 23:45:03

Lowest Channel / 10MHz / 16QAM



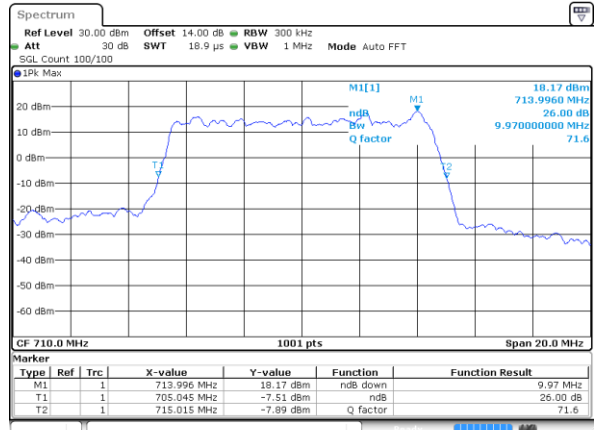
Date: 14 JAN 2019 23:45:14

Middle Channel / 10MHz / QPSK



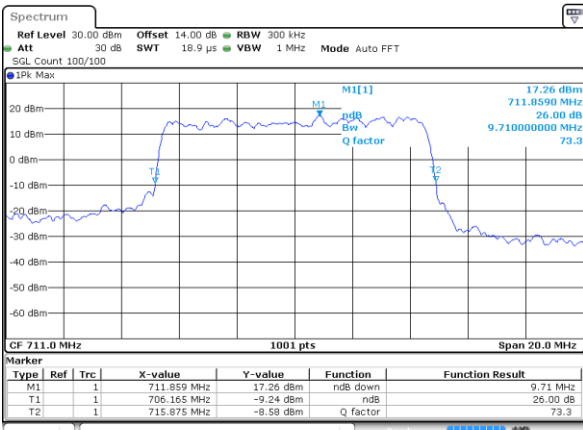
Date: 14 JAN 2019 23:52:10

Middle Channel / 10MHz / 16QAM



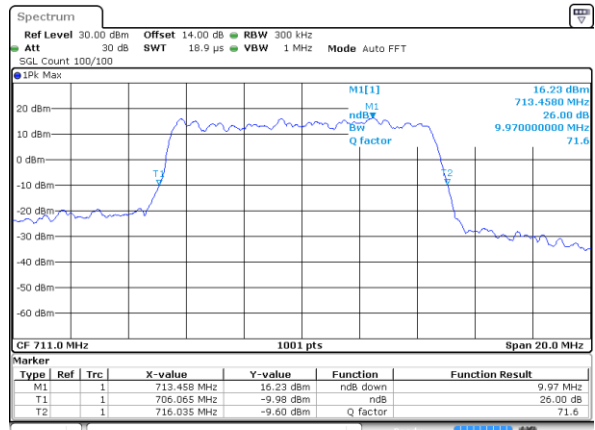
Date: 14 JAN 2019 23:52:20

Highest Channel / 10MHz / QPSK



Date: 14 JAN 2019 23:54:40

Highest Channel / 10MHz / 16QAM



Date: 14 JAN 2019 23:54:51



## Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.1	2.72	2.72	4.5	4.47	9.07	8.99	13.49	13.49	18.38	18.58
Middle CH	1.09	1.09	2.73	2.73	4.49	4.5	9.01	9.07	13.43	13.52	18.26	18.58
Highest CH	1.08	1.09	2.73	2.7	4.5	4.49	9.05	9.07	13.46	13.52	18.46	18.38

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.09	2.72	2.73	4.53	4.51	9.03	9.03	13.4	13.49	18.34	18.3
Middle CH	1.09	1.09	2.71	2.71	4.52	4.51	9.01	9.03	13.4	13.43	18.42	18.38
Highest CH	1.09	1.09	2.72	2.74	4.51	4.49	9.03	9.01	13.43	13.52	18.42	18.26

Mode	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.1	1.09	2.73	2.72	4.52	4.5	9.05	9.01				
Middle CH	1.1	1.09	2.73	2.71	4.51	4.51	9.09	9.05				
Highest CH	1.09	1.09	2.73	2.73	4.5	4.49	9.03	8.97				

Mode	LTE Band 7 : 99%OBW(MHz)											
					5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.51	4.51	8.99	8.97	13.49	13.46	18.34	18.3
Middle CH					4.5	4.5	9.01	8.99	13.49	13.49	18.26	18.46
Highest CH					4.52	4.5	9.03	9.05	13.46	13.37	18.34	18.26

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.72	2.72	4.49	4.49	8.97	9.01	-	-	-	-
Middle CH	1.09	1.09	2.73	2.7	4.49	4.51	9.05	9.03	-	-	-	-
Highest CH	1.1	1.09	2.72	2.73	4.5	4.52	8.99	9.05	-	-	-	-



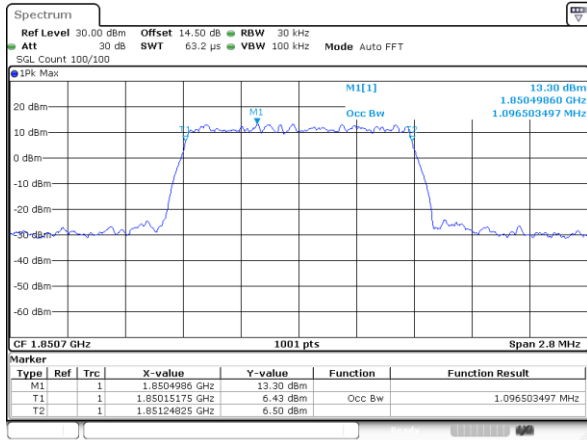
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	5MHz		10MHz									
Mod.	QPSK	16QAM	QPSK	16QAM								
Lowest CH	4.49	4.51										
Middle CH	4.49	4.5	9.09	8.93								
Highest CH	4.48	4.5										

Mode	LTE Band 17 : 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	4.49	9.05	9.05	-	-	-	-
Middle CH	-	-	-	-	4.52	4.49	9.03	9.03	-	-	-	-
Highest CH	-	-	-	-	4.5	4.49	9.03	9.01	-	-	-	-



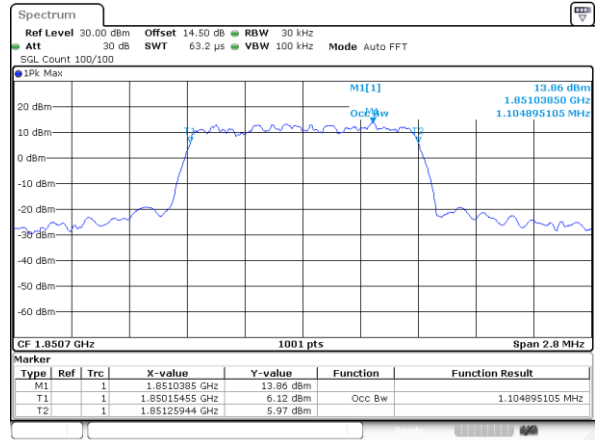
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



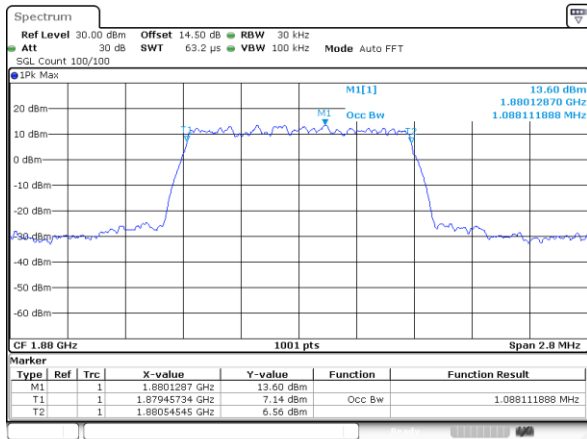
Date: 4 JAN 2019 10:37:27

Lowest Channel / 1.4MHz / 16QAM



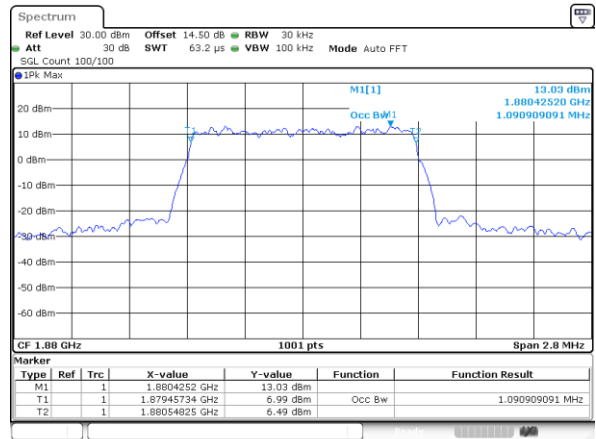
Date: 4 JAN 2019 10:37:38

Middle Channel / 1.4MHz / QPSK



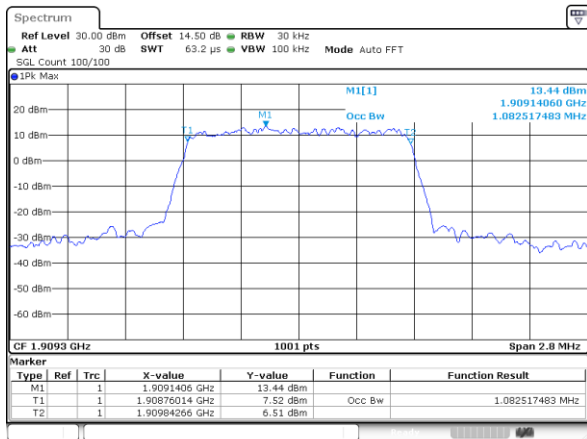
Date: 4 JAN 2019 10:45:49

Middle Channel / 1.4MHz / 16QAM



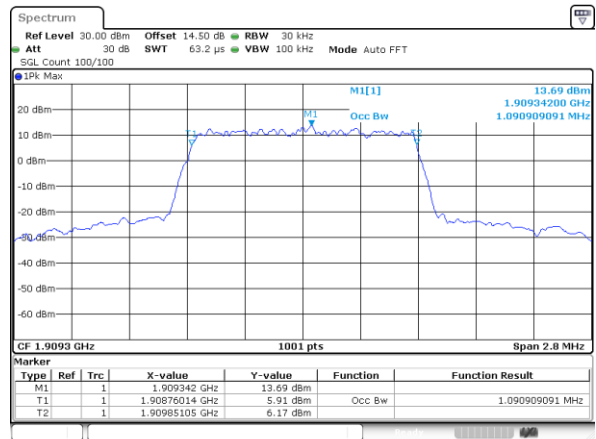
Date: 4 JAN 2019 10:46:00

Highest Channel / 1.4MHz / QPSK



Date: 4 JAN 2019 11:04:40

Highest Channel / 1.4MHz / 16QAM

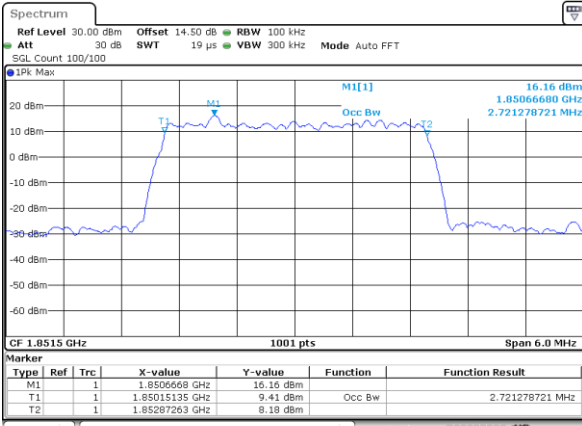


Date: 4 JAN 2019 11:05:31



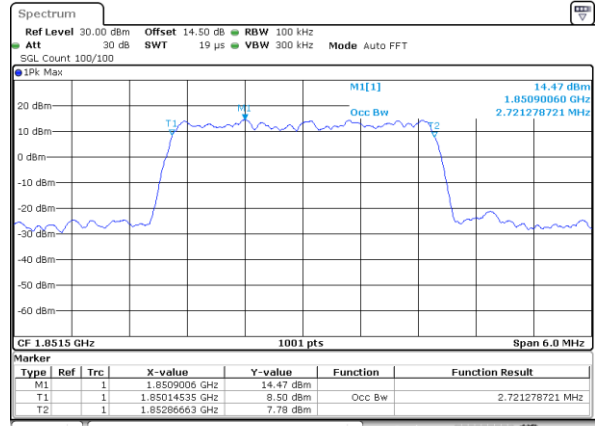
LTE Band 2

Lowest Channel / 3MHz / QPSK



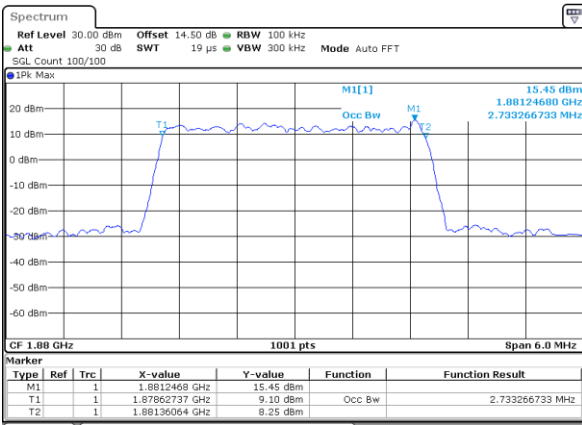
Date: 4 JAN 2019 11:11:57

Lowest Channel / 3MHz / 16QAM



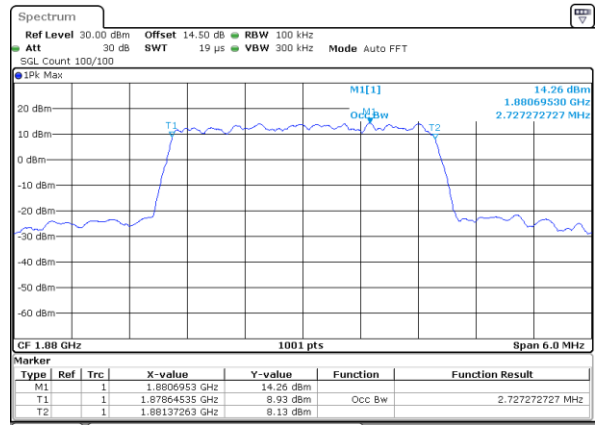
Date: 4 JAN 2019 11:12:08

Middle Channel / 3MHz / QPSK



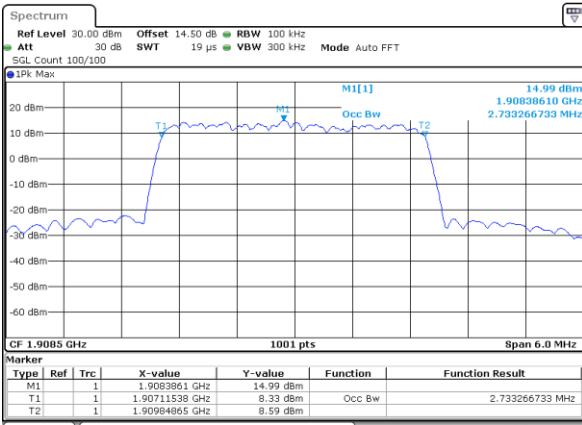
Date: 4 JAN 2019 11:19:09

Middle Channel / 3MHz / 16QAM



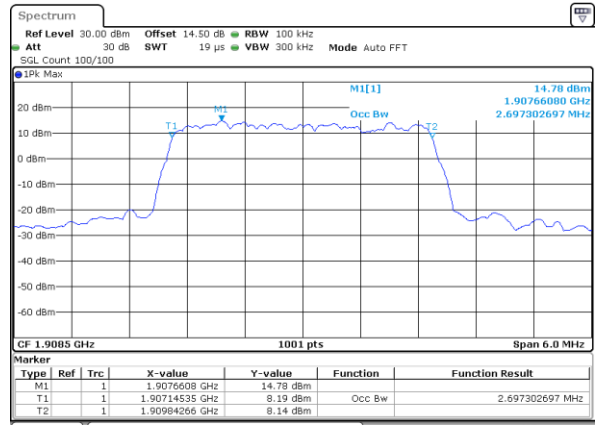
Date: 4 JAN 2019 11:19:19

Highest Channel / 3MHz / QPSK



Date: 4 JAN 2019 11:21:41

Highest Channel / 3MHz / 16QAM

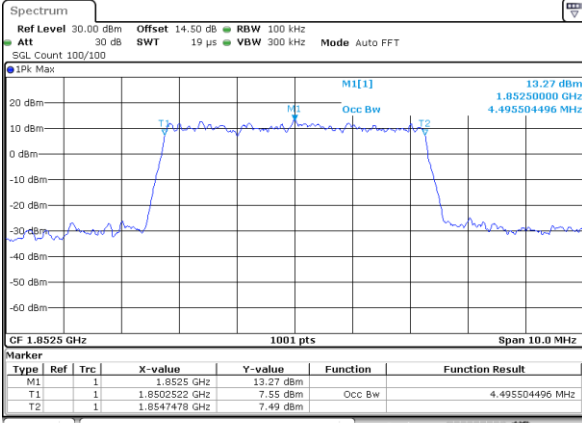


Date: 4 JAN 2019 11:21:51



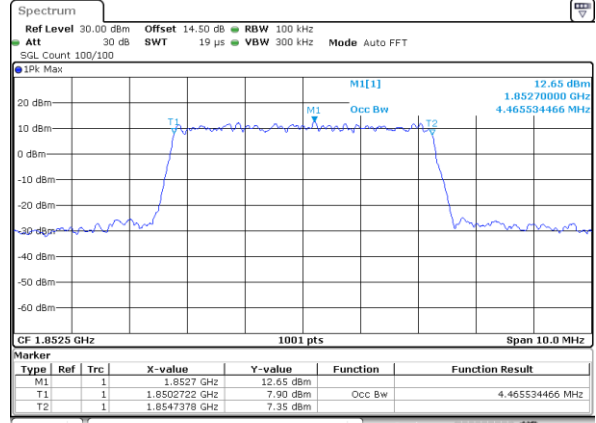
LTE Band 2

Lowest Channel / 5MHz / QPSK



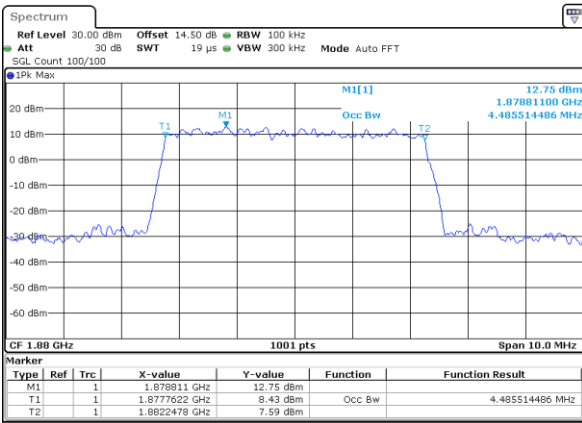
Date: 4 JAN 2019 11:30:39

Lowest Channel / 5MHz / 16QAM



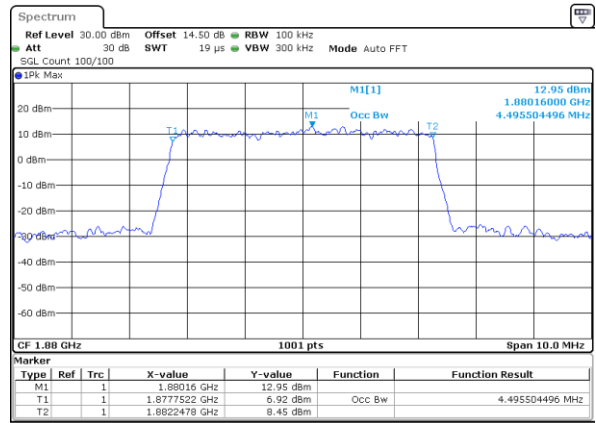
Date: 4 JAN 2019 11:30:50

Middle Channel / 5MHz / QPSK



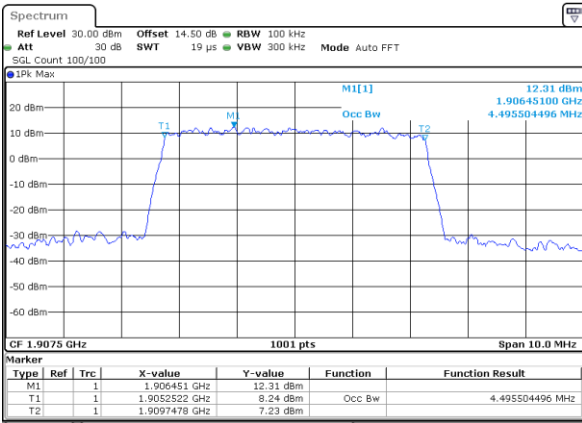
Date: 4 JAN 2019 11:37:50

Middle Channel / 5MHz / 16QAM



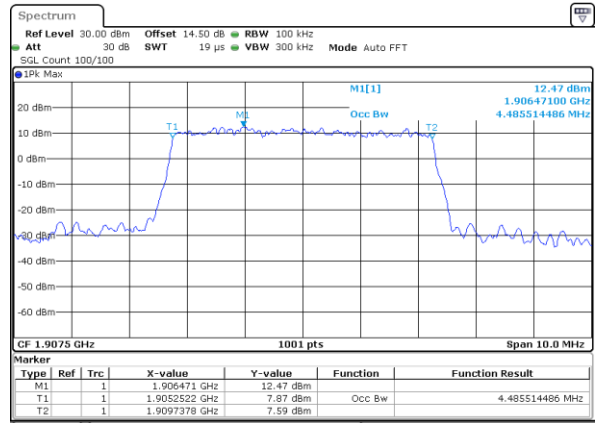
Date: 4 JAN 2019 11:38:01

Highest Channel / 5MHz / QPSK



Date: 4 JAN 2019 11:40:23

Highest Channel / 5MHz / 16QAM

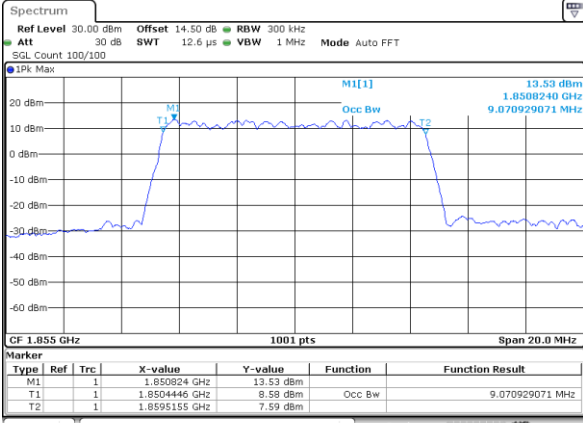


Date: 4 JAN 2019 11:40:33



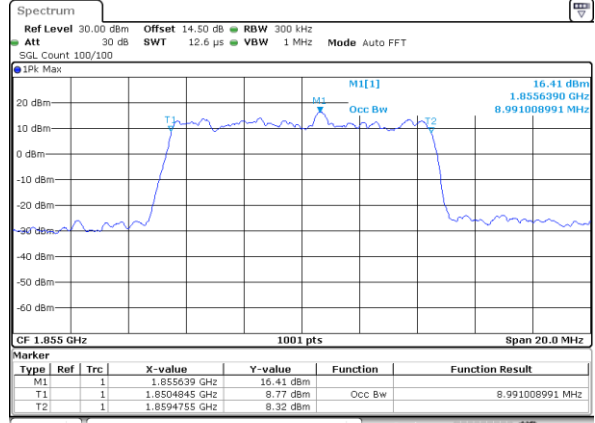
LTE Band 2

Lowest Channel / 10MHz / QPSK



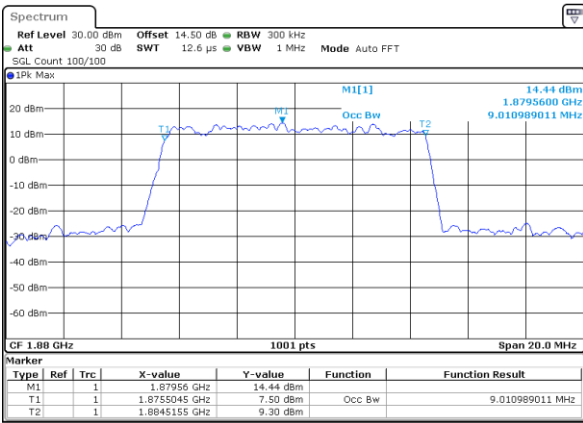
Date: 4 JAN 2019 11:48:52

Lowest Channel / 10MHz / 16QAM



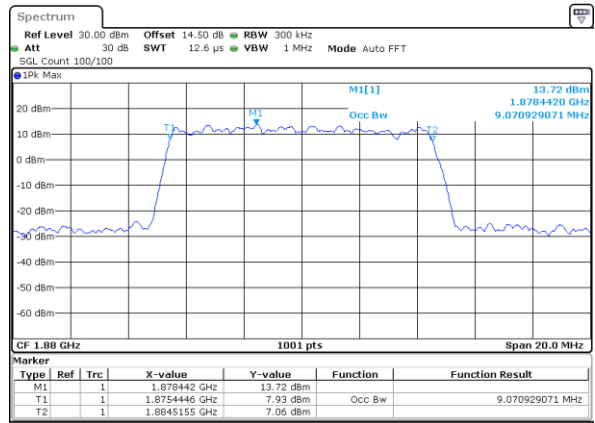
Date: 4 JAN 2019 11:49:02

Middle Channel / 10MHz / QPSK



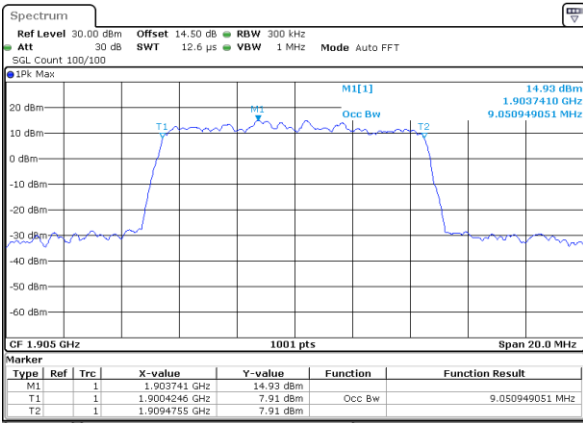
Date: 4 JAN 2019 11:56:02

Middle Channel / 10MHz / 16QAM



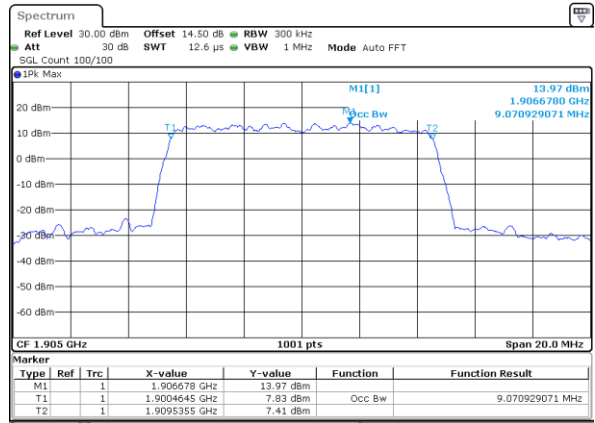
Date: 4 JAN 2019 11:56:13

Highest Channel / 10MHz / QPSK



Date: 4 JAN 2019 11:58:35

Highest Channel / 10MHz / 16QAM



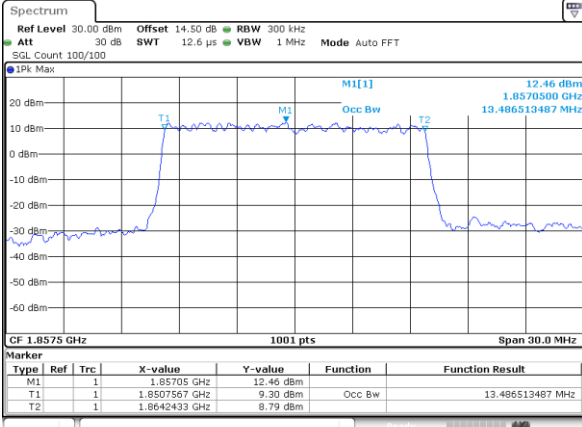
Date: 4 JAN 2019 11:58:45





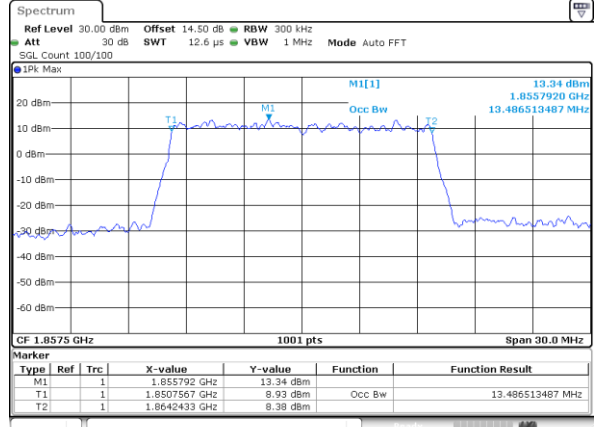
LTE Band 2

Lowest Channel / 15MHz / QPSK



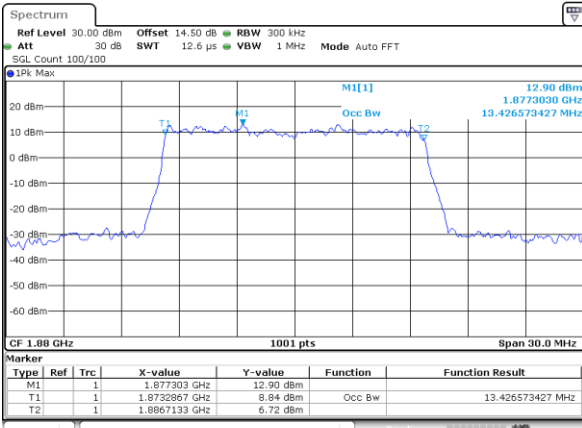
Date: 4, JAN, 2019 13:42:07

Lowest Channel / 15MHz / 16QAM



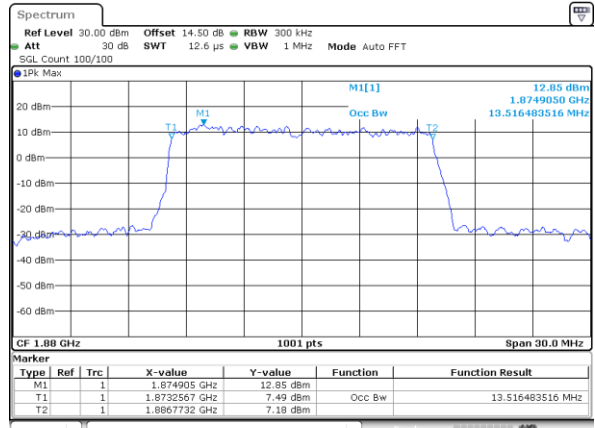
Date: 4, JAN, 2019 13:42:17

Middle Channel / 15MHz / QPSK



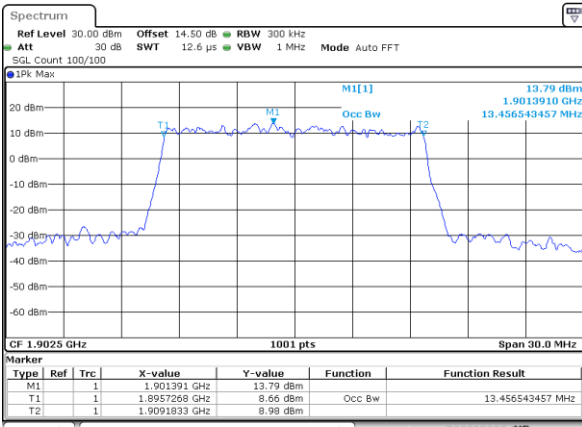
Date: 4, JAN, 2019 13:49:18

Middle Channel / 15MHz / 16QAM



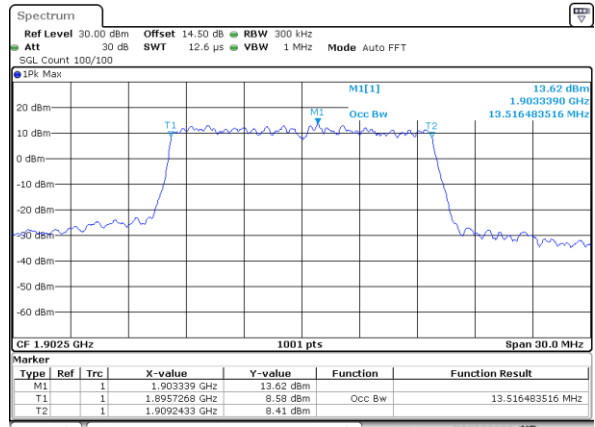
Date: 4, JAN, 2019 13:49:28

Highest Channel / 15MHz / QPSK



Date: 4, JAN, 2019 13:51:50

Highest Channel / 15MHz / 16QAM

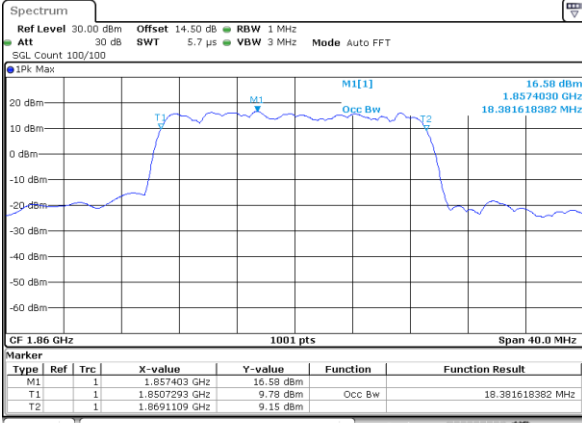


Date: 4, JAN, 2019 13:52:00



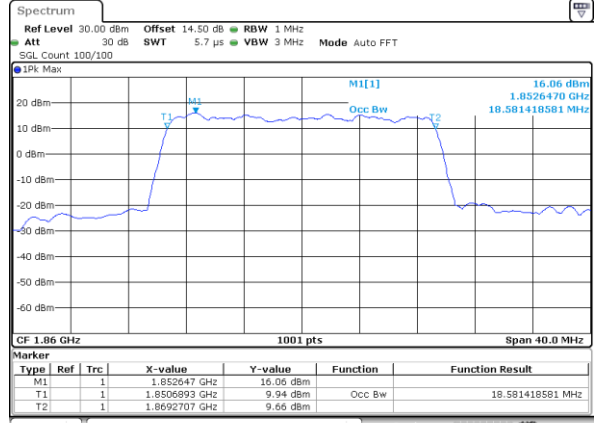
LTE Band 2

Lowest Channel / 20MHz / QPSK



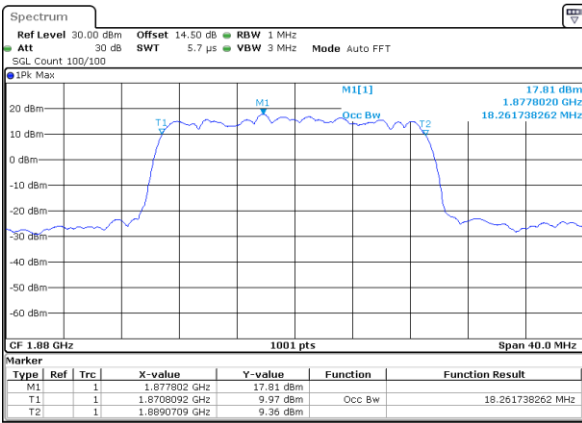
Date: 4 JAN 2019 14:02:13

Lowest Channel / 20MHz / 16QAM



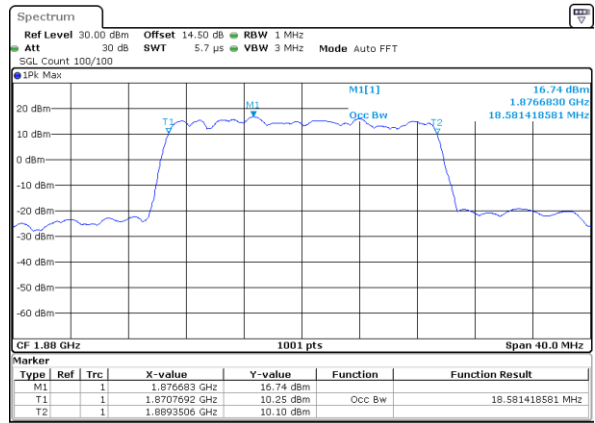
Date: 4 JAN 2019 14:02:23

Middle Channel / 20MHz / QPSK



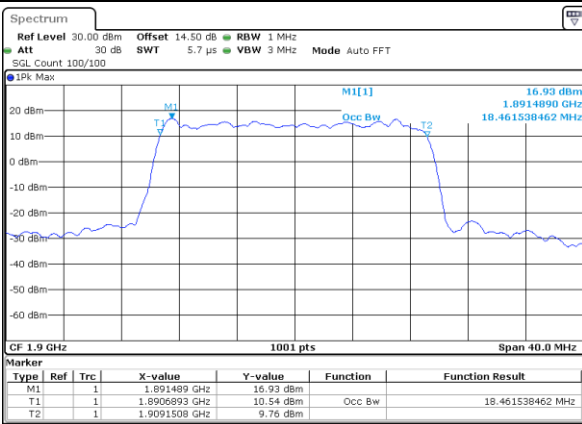
Date: 4 JAN 2019 14:09:24

Middle Channel / 20MHz / 16QAM



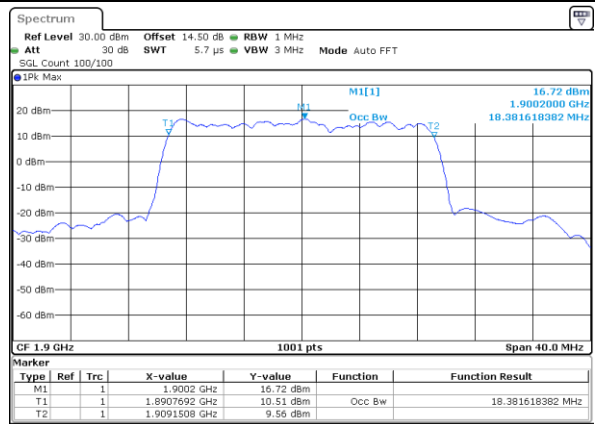
Date: 4 JAN 2019 14:09:34

Highest Channel / 20MHz / QPSK



Date: 4 JAN 2019 14:11:57

Highest Channel / 20MHz / 16QAM

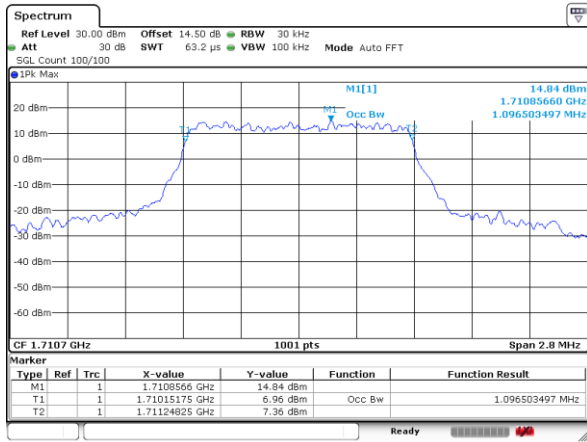


Date: 4 JAN 2019 14:12:07



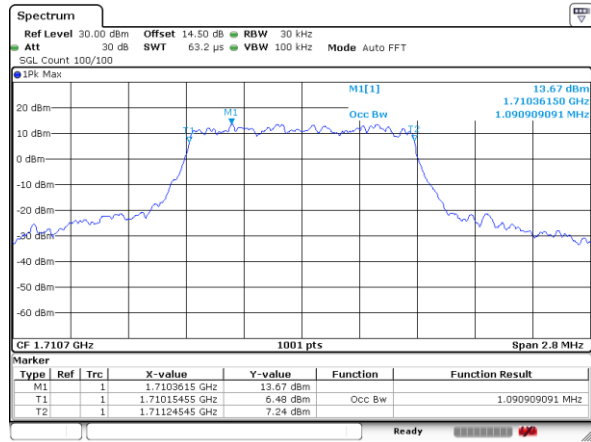
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



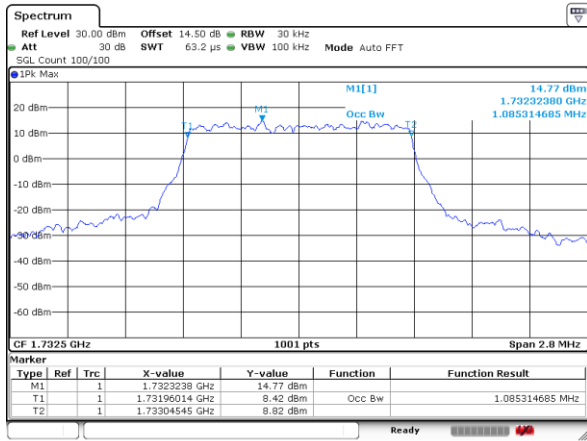
Date: 15\_JAN,2019 09:13:22

Lowest Channel / 1.4MHz / 16QAM



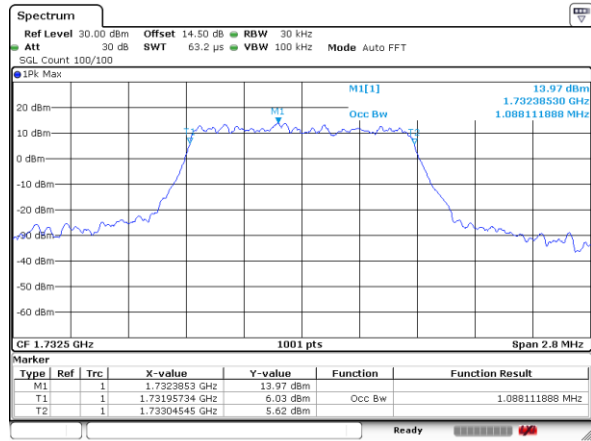
Date: 15\_JAN,2019 09:13:32

Middle Channel / 1.4MHz / QPSK



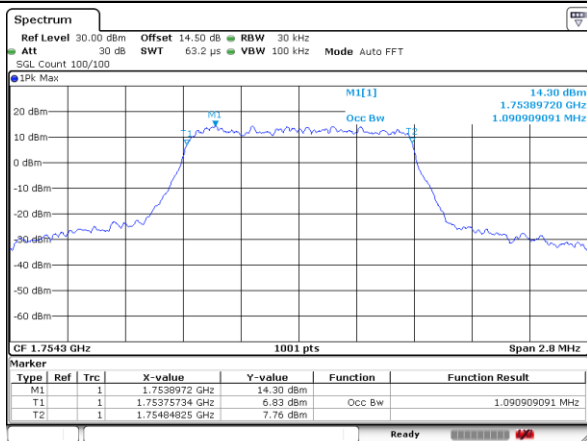
Date: 15\_JAN,2019 09:41:34

Middle Channel / 1.4MHz / 16QAM



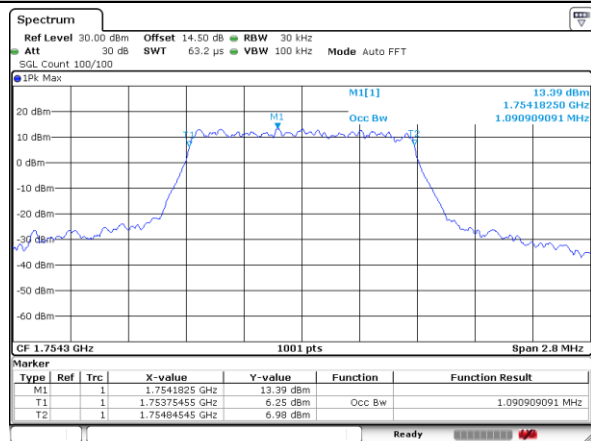
Date: 15\_JAN,2019 09:41:44

Highest Channel / 1.4MHz / QPSK



Date: 15\_JAN,2019 09:44:07

Highest Channel / 1.4MHz / 16QAM

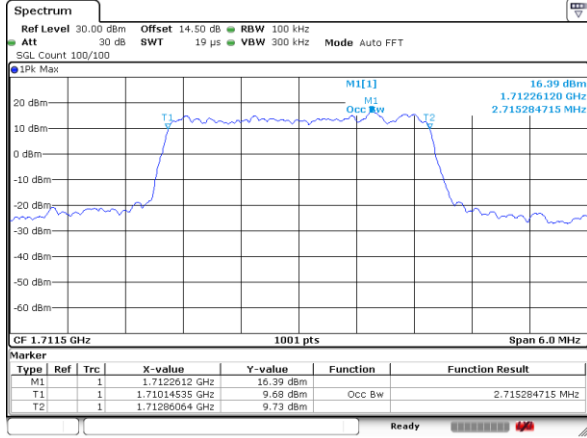


Date: 15\_JAN,2019 09:44:17



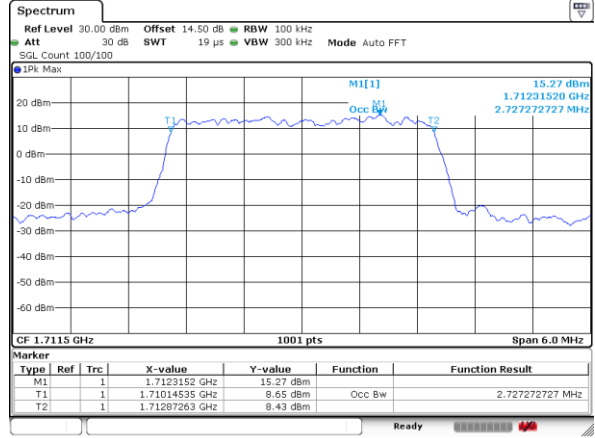
LTE Band 4

Lowest Channel / 3MHz / QPSK



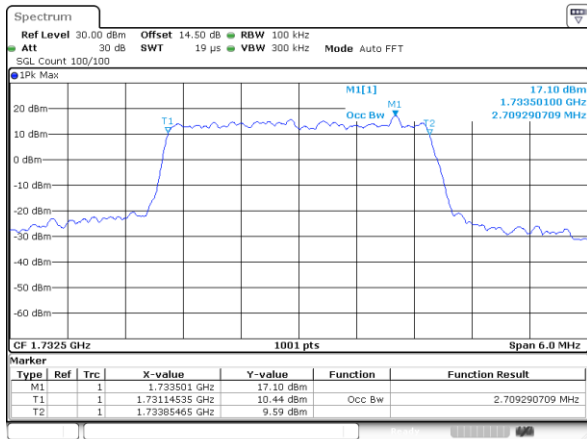
Date: 15\_JAN.2019 09:53:55

Lowest Channel / 3MHz / 16QAM



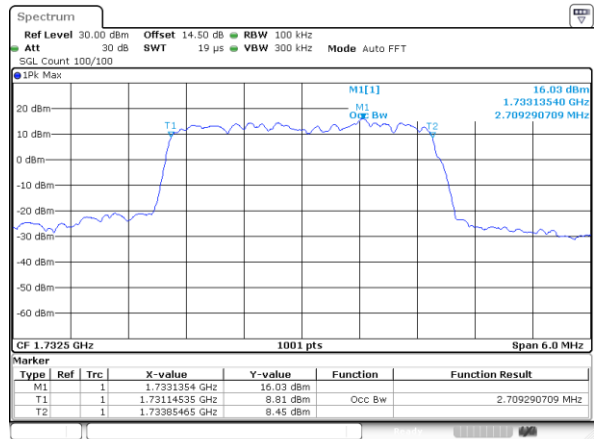
Date: 15\_JAN.2019 09:54:05

Middle Channel / 3MHz / QPSK



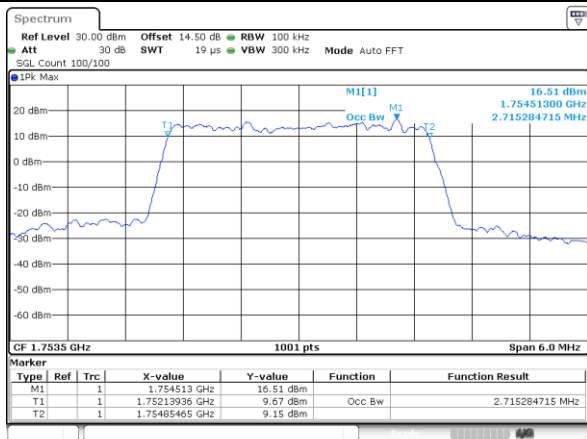
Date: 15\_JAN.2019 10:39:37

Middle Channel / 3MHz / 16QAM



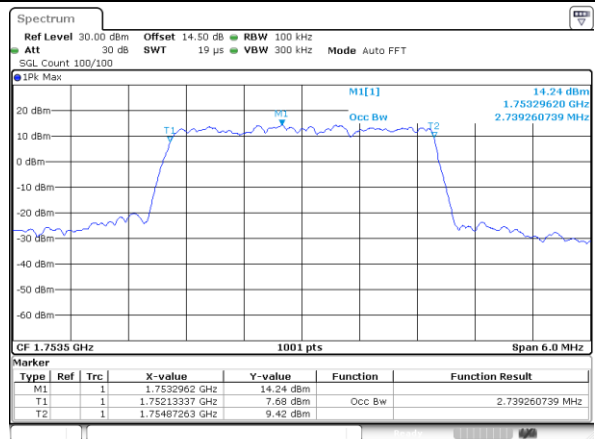
Date: 15\_JAN.2019 10:39:47

Highest Channel / 3MHz / QPSK



Date: 15\_JAN.2019 10:42:10

Highest Channel / 3MHz / 16QAM

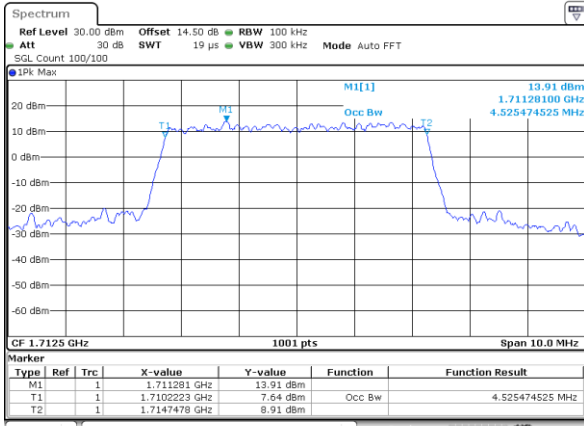


Date: 15\_JAN.2019 10:42:20



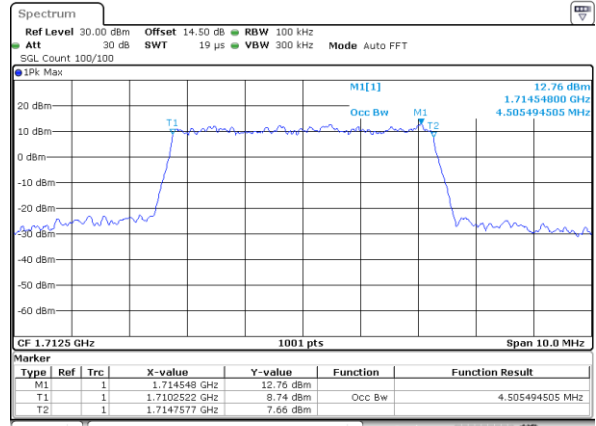
LTE Band 4

Lowest Channel / 5MHz / QPSK



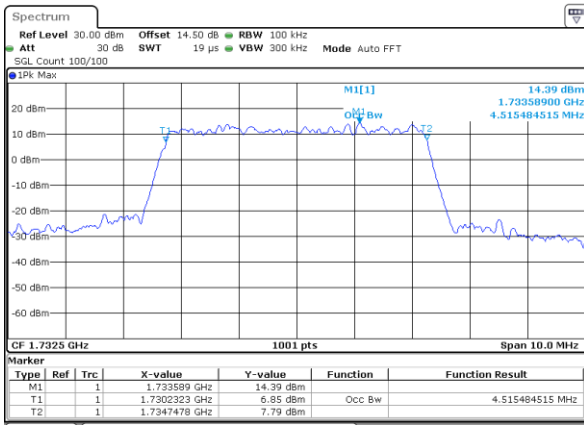
Date: 15\_JAN.2019 10:50:11

Lowest Channel / 5MHz / 16QAM



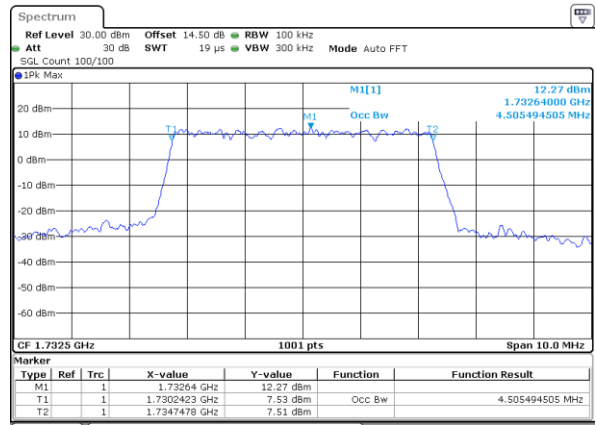
Date: 15\_JAN.2019 10:50:21

Middle Channel / 5MHz / QPSK



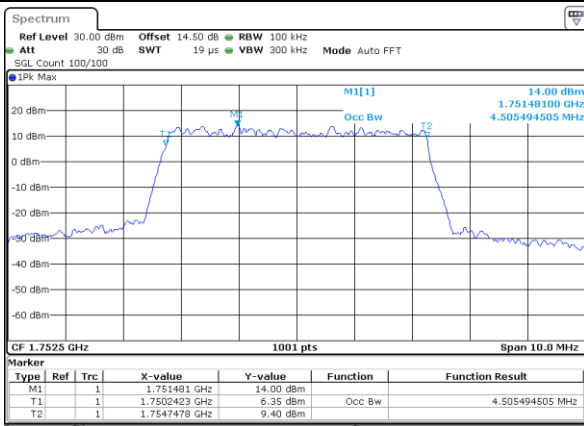
Date: 15\_JAN.2019 10:57:21

Middle Channel / 5MHz / 16QAM



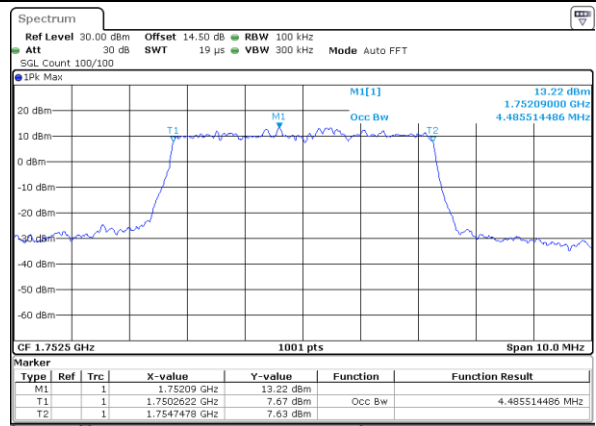
Date: 15\_JAN.2019 10:57:31

Highest Channel / 5MHz / QPSK



Date: 15\_JAN.2019 10:59:53

Highest Channel / 5MHz / 16QAM

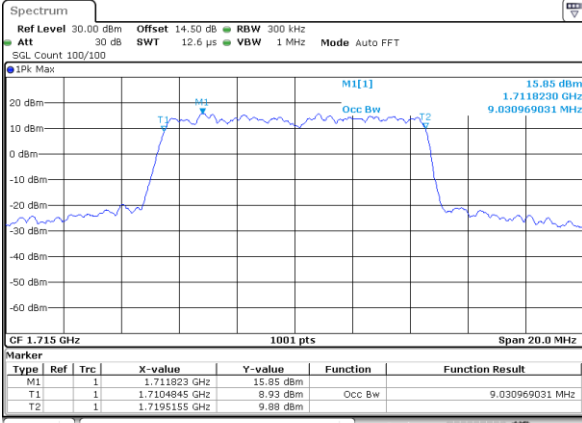


Date: 15\_JAN.2019 11:00:03



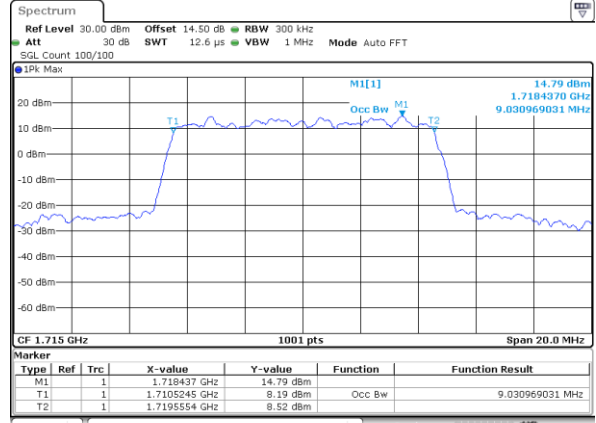
LTE Band 4

Lowest Channel / 10MHz / QPSK



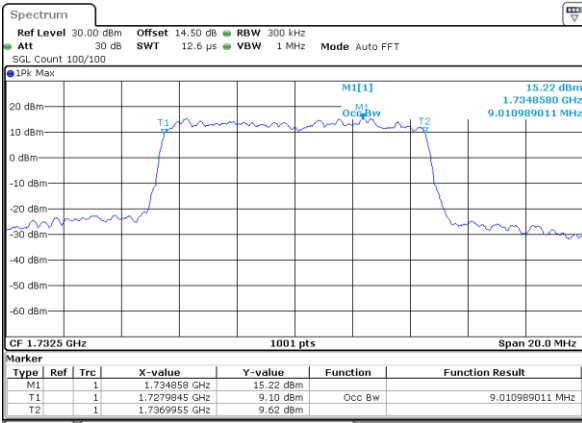
Date: 15\_JAN.2019 11:07:47

Lowest Channel / 10MHz / 16QAM



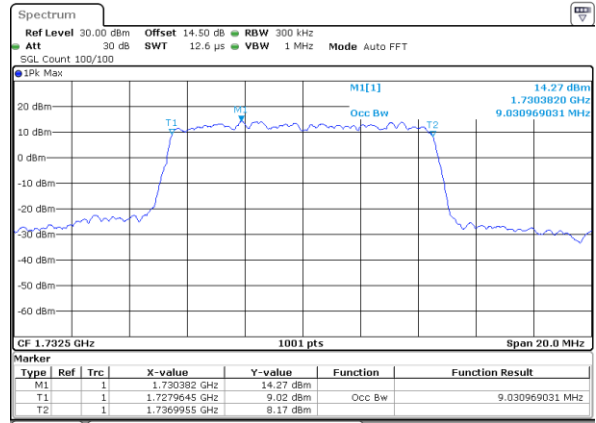
Date: 15\_JAN.2019 11:07:58

Middle Channel / 10MHz / QPSK



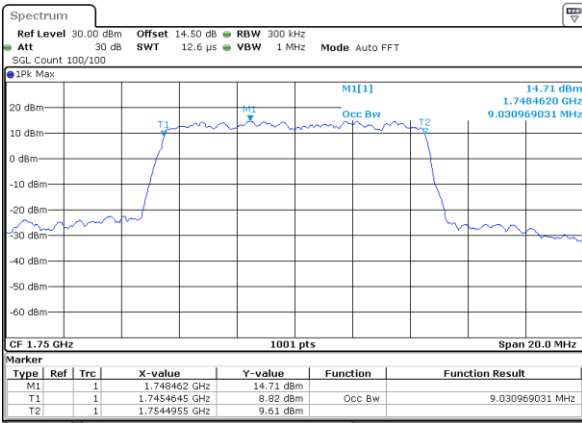
Date: 15\_JAN.2019 11:14:57

Middle Channel / 10MHz / 16QAM



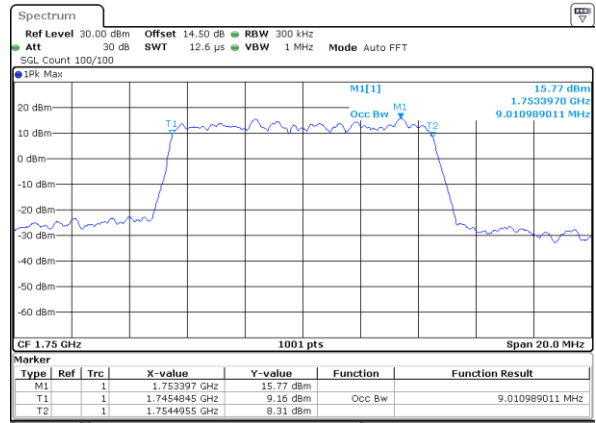
Date: 15\_JAN.2019 11:15:07

Highest Channel / 10MHz / QPSK



Date: 15\_JAN.2019 11:17:30

Highest Channel / 10MHz / 16QAM

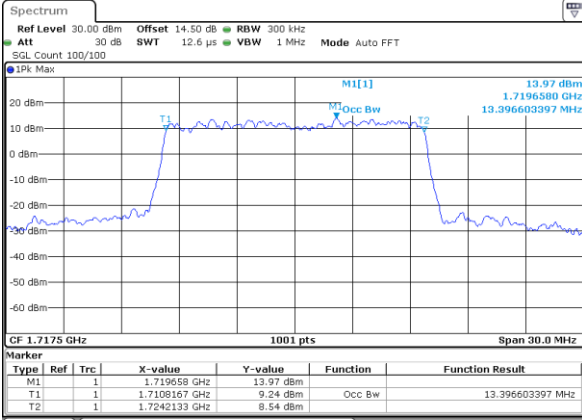


Date: 15\_JAN.2019 11:17:40



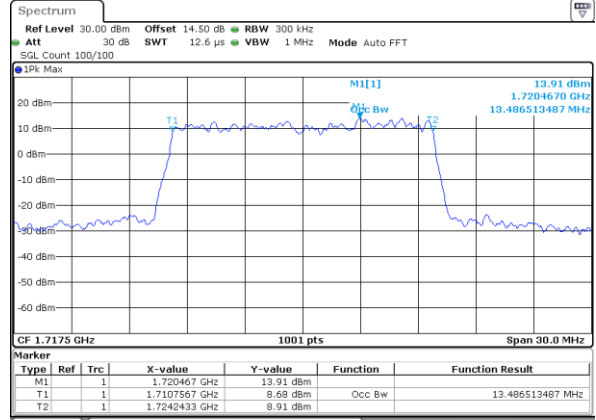
LTE Band 4

Lowest Channel / 15MHz / QPSK



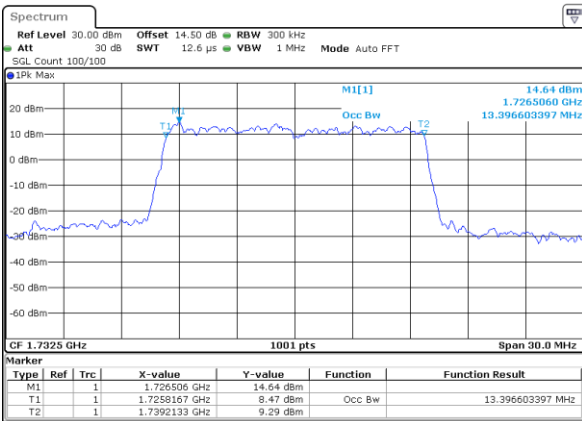
Date: 15\_JAN.2019 11:25:33

Lowest Channel / 15MHz / 16QAM



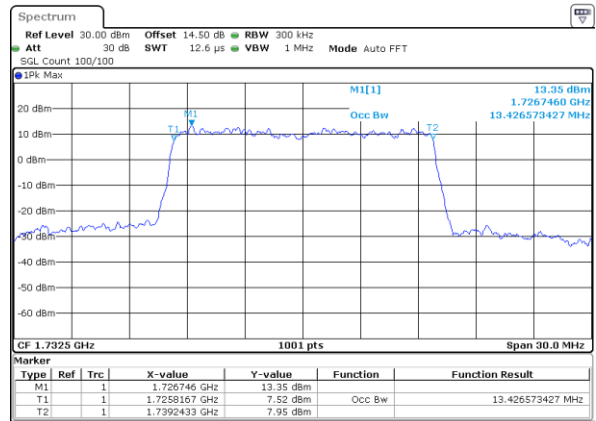
Date: 15\_JAN.2019 11:25:44

Middle Channel / 15MHz / QPSK



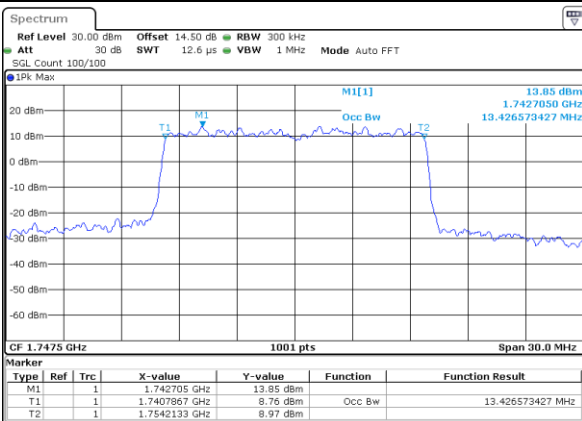
Date: 15\_JAN.2019 11:32:44

Middle Channel / 15MHz / 16QAM



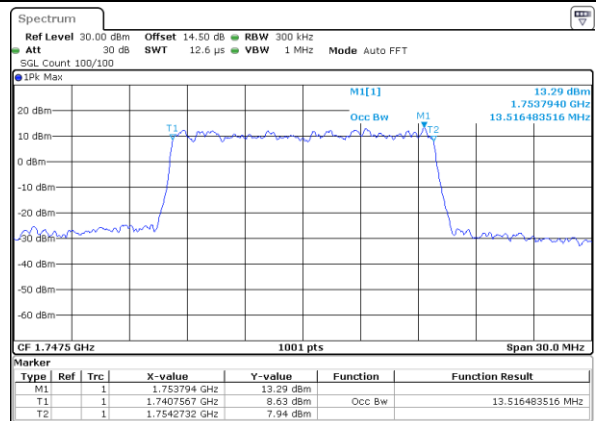
Date: 15\_JAN.2019 11:32:54

Highest Channel / 15MHz / QPSK



Date: 15\_JAN.2019 11:35:16

Highest Channel / 15MHz / 16QAM

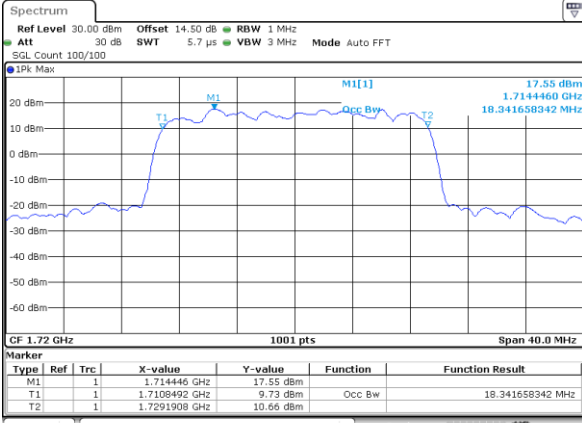


Date: 15\_JAN.2019 11:35:27



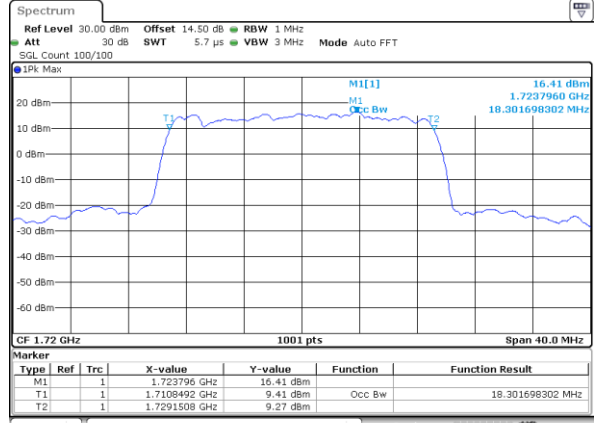
LTE Band 4

Lowest Channel / 20MHz / QPSK



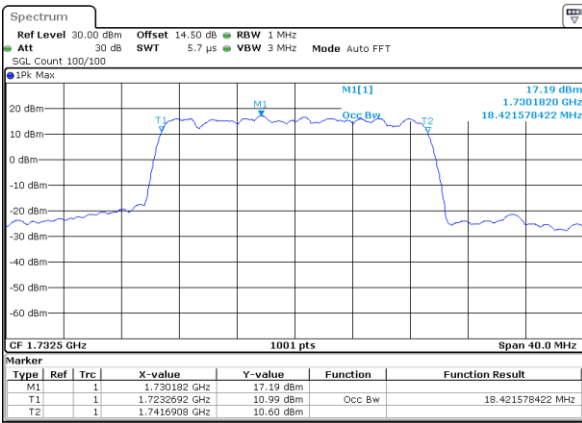
Date: 15\_JAN.2019 11:53:02

Lowest Channel / 20MHz / 16QAM



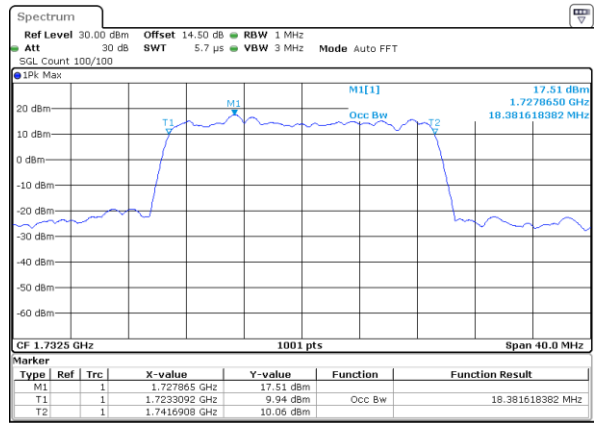
Date: 15\_JAN.2019 11:53:13

Middle Channel / 20MHz / QPSK



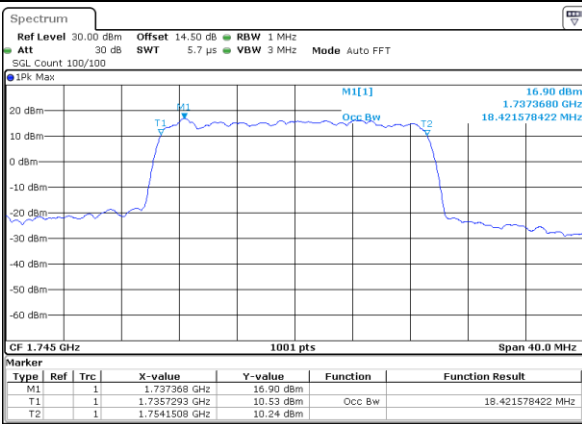
Date: 15\_JAN.2019 12:00:12

Middle Channel / 20MHz / 16QAM



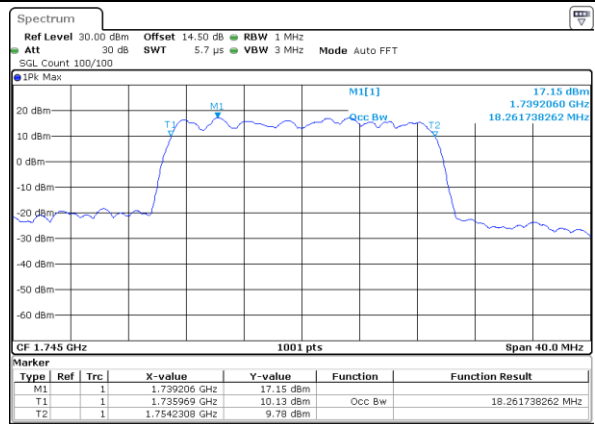
Date: 15\_JAN.2019 12:00:22

Highest Channel / 20MHz / QPSK



Date: 15\_JAN.2019 12:02:45

Highest Channel / 20MHz / 16QAM



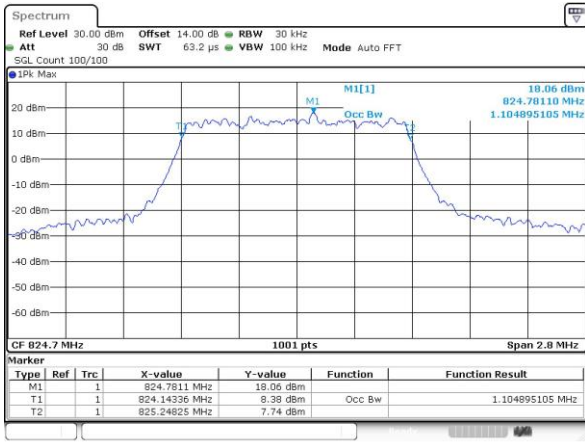
Date: 15\_JAN.2019 12:02:55





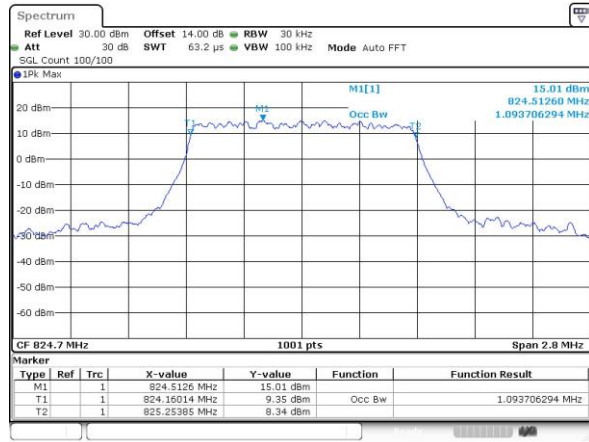
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



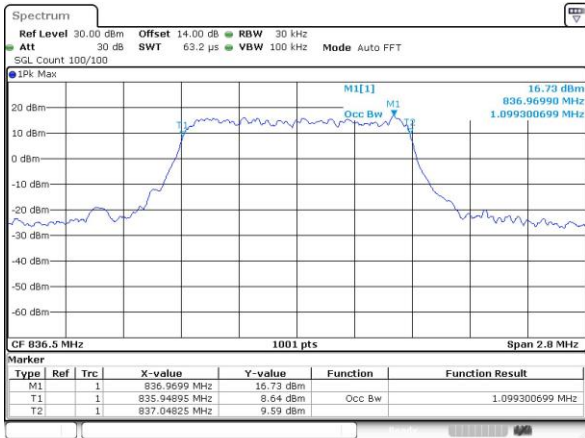
Date: 1, JAN, 2019 20:38:03

Lowest Channel / 1.4MHz / 16QAM



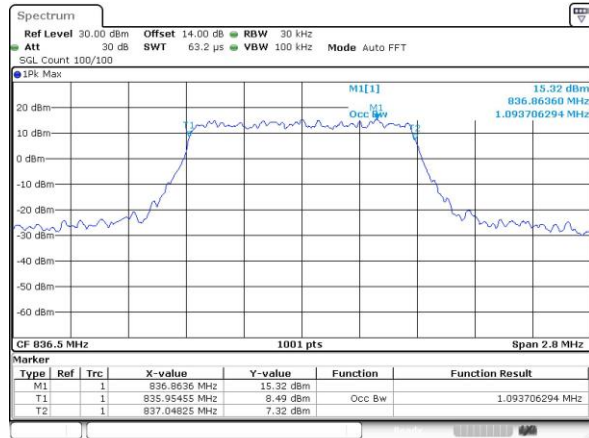
Date: 1, JAN, 2019 20:38:15

Middle Channel / 1.4MHz / QPSK



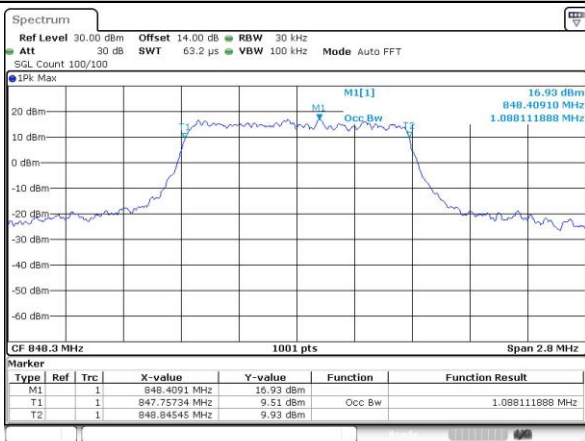
Date: 1, JAN, 2019 20:38:49

Middle Channel / 1.4MHz / 16QAM



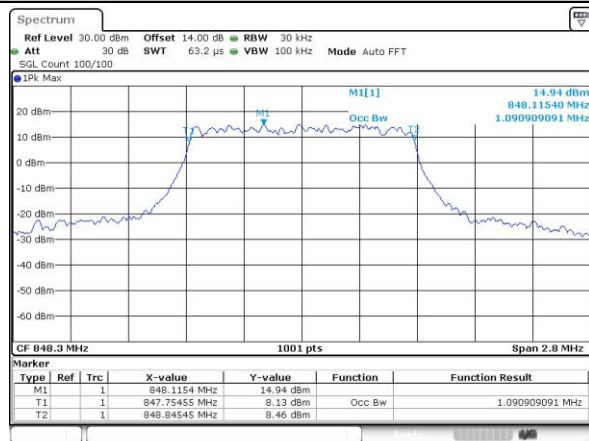
Date: 1, JAN, 2019 20:39:01

Highest Channel / 1.4MHz / QPSK



Date: 1, JAN, 2019 20:39:35

Highest Channel / 1.4MHz / 16QAM

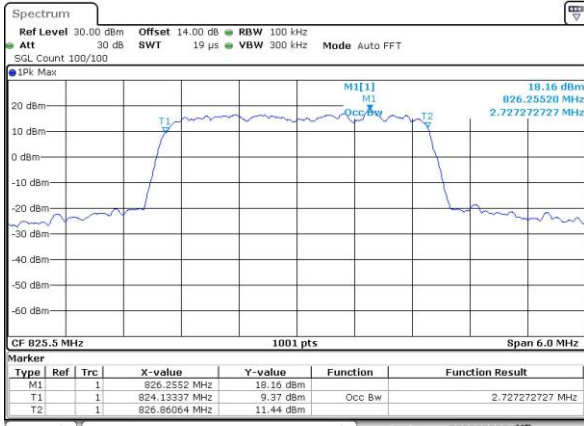


Date: 1, JAN, 2019 20:39:47



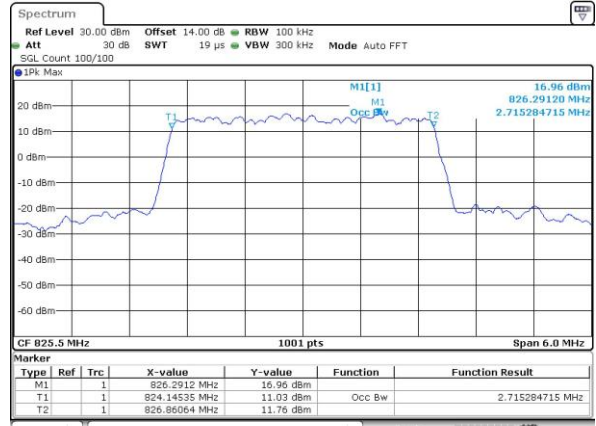
LTE Band 5

Lowest Channel / 3MHz / QPSK



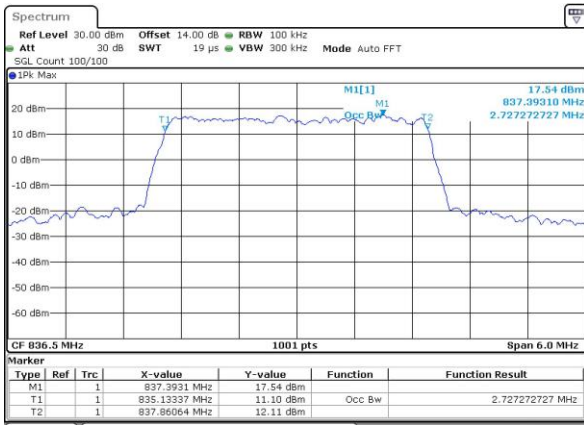
Date: 1, JAN, 2019 20:40:21

Lowest Channel / 3MHz / 16QAM



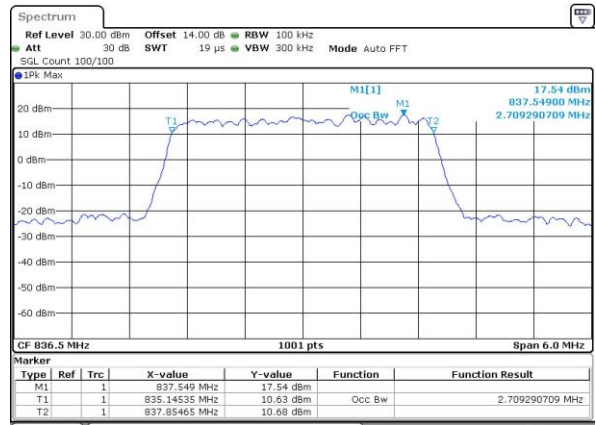
Date: 1, JAN, 2019 20:40:32

Middle Channel / 3MHz / QPSK



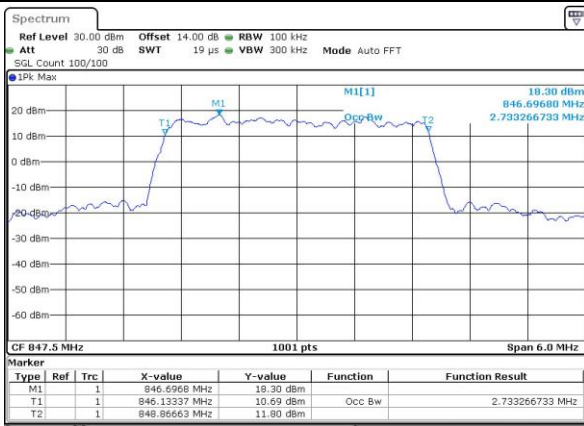
Date: 1, JAN, 2019 20:41:07

Middle Channel / 3MHz / 16QAM



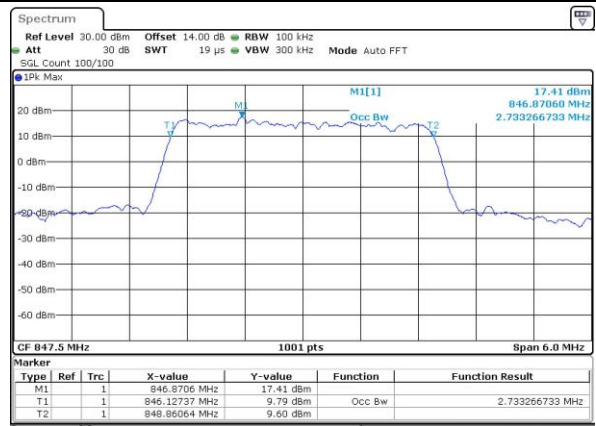
Date: 1, JAN, 2019 20:41:18

Highest Channel / 3MHz / QPSK



Date: 1, JAN, 2019 20:41:53

Highest Channel / 3MHz / 16QAM

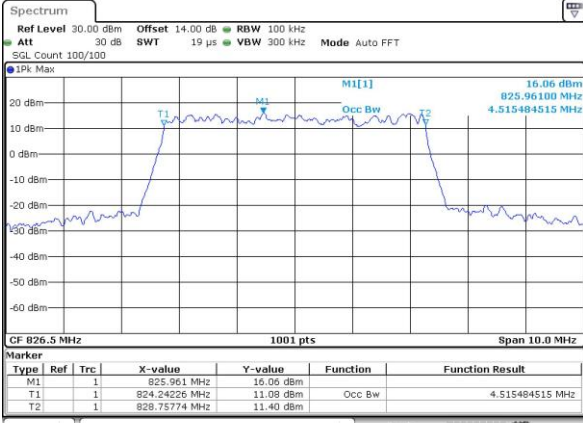


Date: 1, JAN, 2019 20:42:04



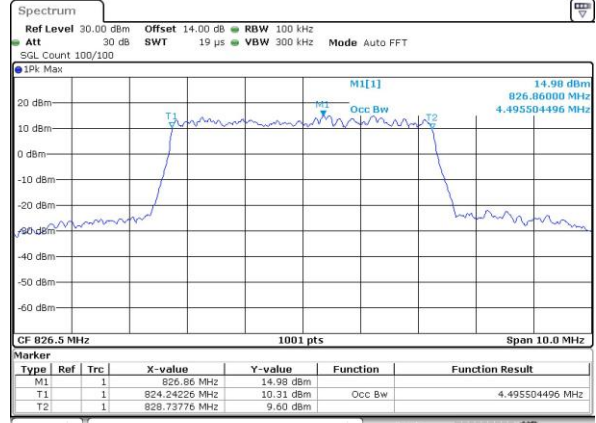
LTE Band 5

Lowest Channel / 5MHz / QPSK



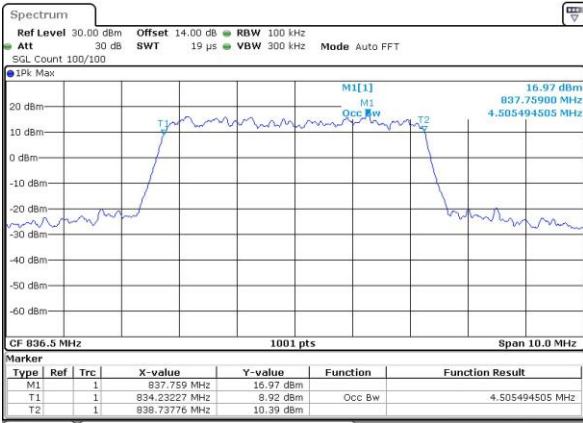
Date: 1, JAN, 2019 20:42:19

Lowest Channel / 5MHz / 16QAM



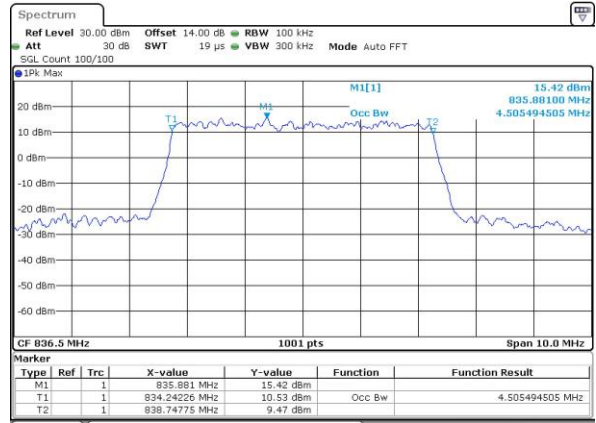
Date: 1, JAN, 2019 20:42:50

Middle Channel / 5MHz / QPSK



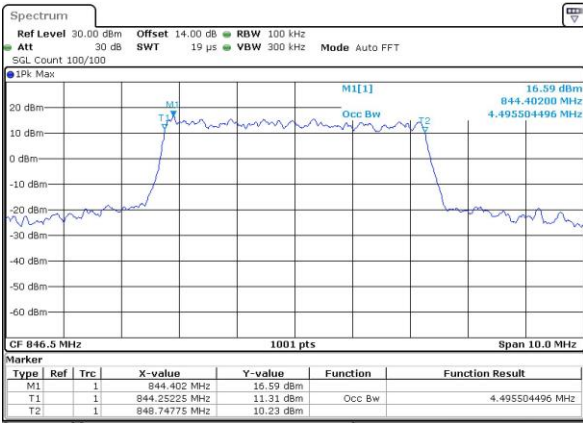
Date: 1, JAN, 2019 20:43:25

Middle Channel / 5MHz / 16QAM



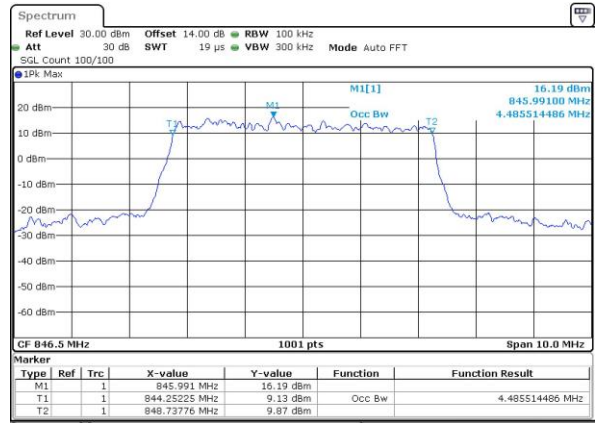
Date: 1, JAN, 2019 20:43:36

Highest Channel / 5MHz / QPSK



Date: 1, JAN, 2019 20:44:11

Highest Channel / 5MHz / 16QAM

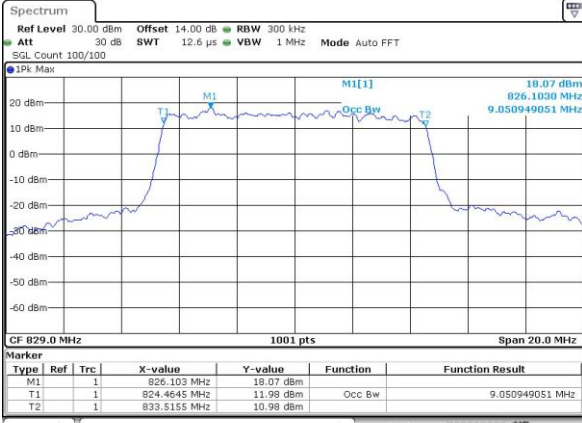


Date: 1, JAN, 2019 20:44:22



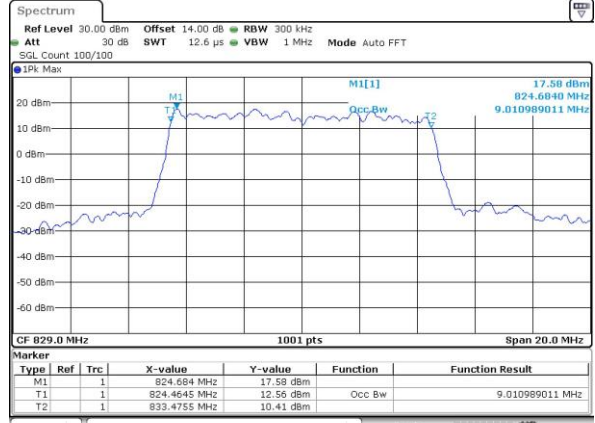
LTE Band 5

Lowest Channel / 10MHz / QPSK



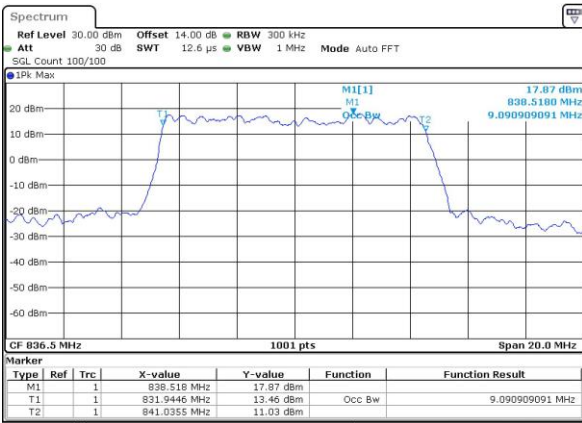
Date: 1, JAN, 2019 20:44:57

Lowest Channel / 10MHz / 16QAM



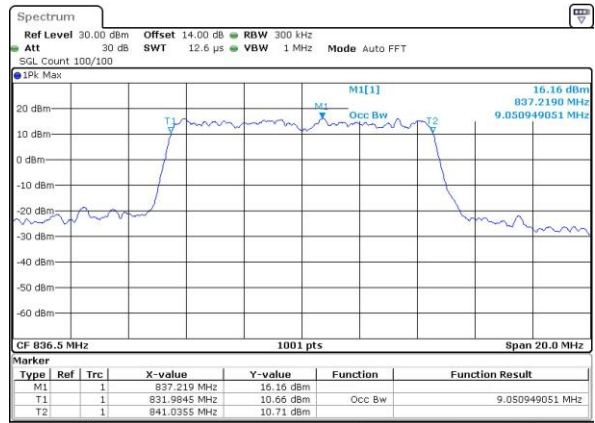
Date: 1, JAN, 2019 20:45:08

Middle Channel / 10MHz / QPSK



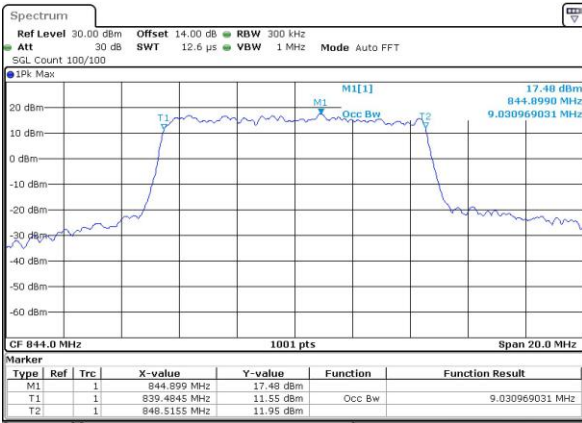
Date: 1, JAN, 2019 20:45:42

Middle Channel / 10MHz / 16QAM



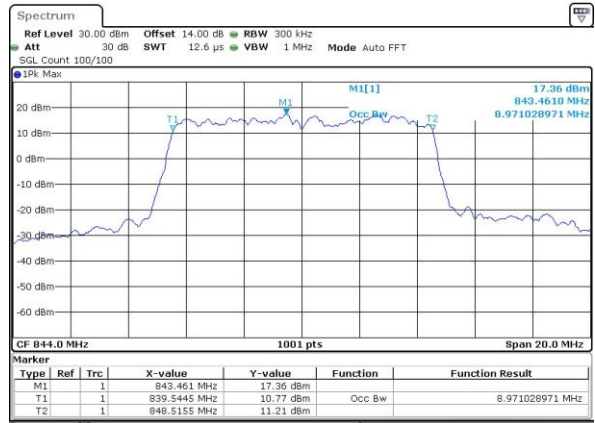
Date: 1, JAN, 2019 20:45:54

Highest Channel / 10MHz / QPSK



Date: 1, JAN, 2019 20:46:28

Highest Channel / 10MHz / 16QAM

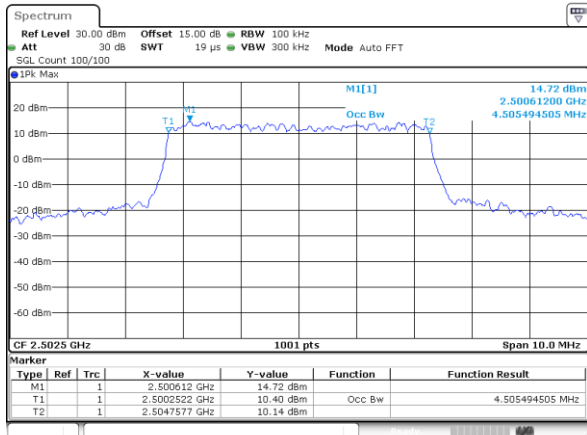


Date: 1, JAN, 2019 20:46:40



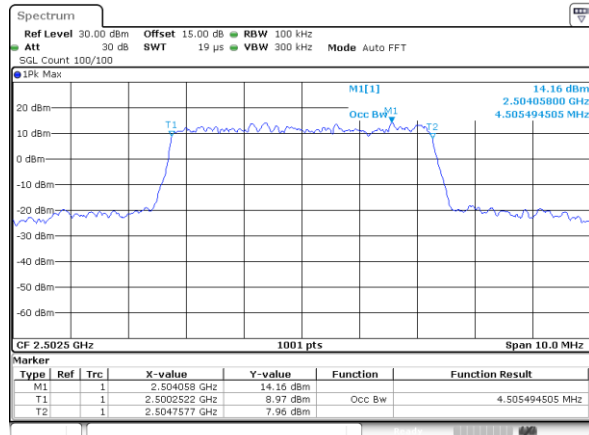
LTE Band 7

Lowest Channel / 5MHz / QPSK



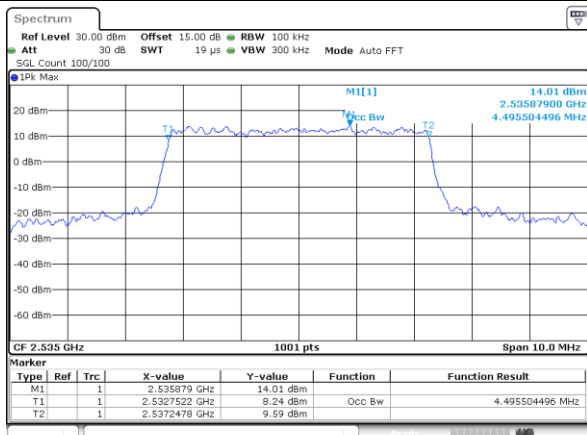
Date: 15\_JAN\_2019 14:48:53

Lowest Channel / 5MHz / 16QAM



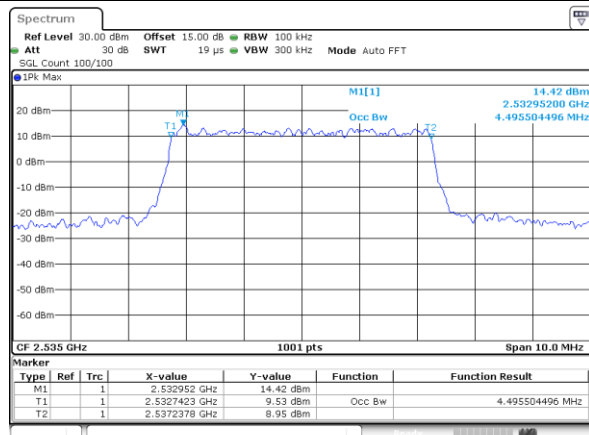
Date: 15\_JAN\_2019 14:49:04

Middle Channel / 5MHz / QPSK



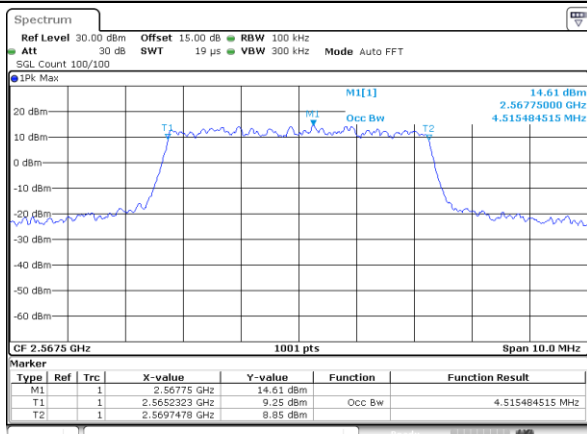
Date: 15\_JAN\_2019 14:56:02

Middle Channel / 5MHz / 16QAM



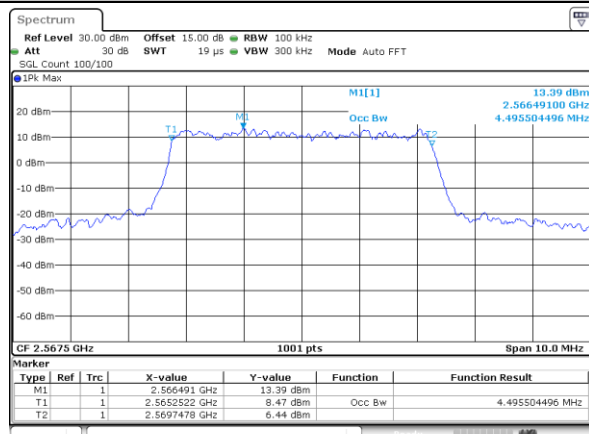
Date: 15\_JAN\_2019 14:56:12

Highest Channel / 5MHz / QPSK



Date: 15\_JAN\_2019 14:58:29

Highest Channel / 5MHz / 16QAM

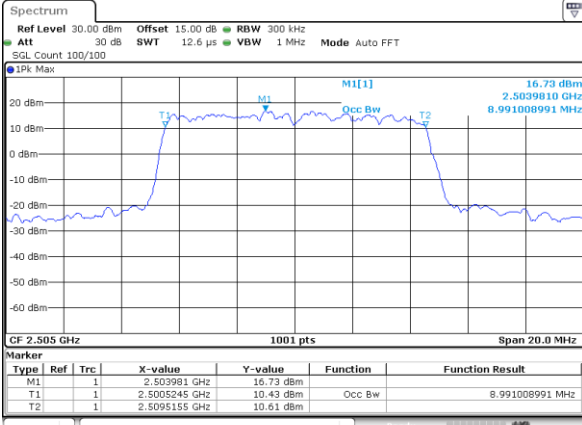


Date: 15\_JAN\_2019 14:58:39



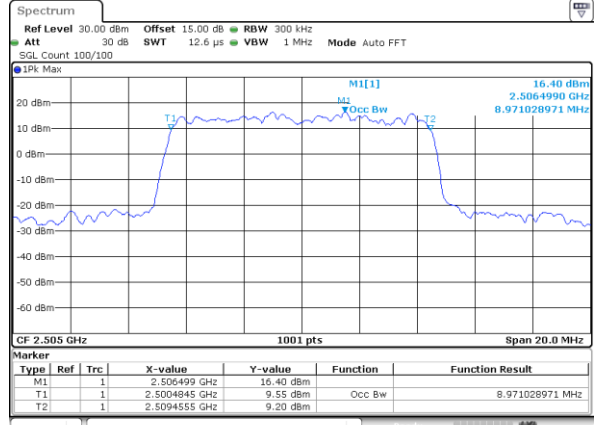
LTE Band 7

Lowest Channel / 10MHz / QPSK



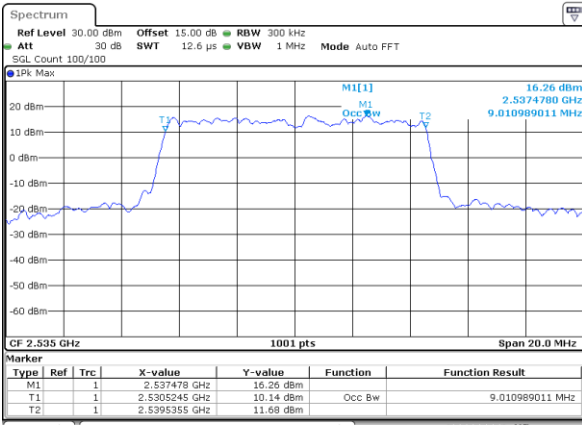
Date: 15\_JAN.2019 15:07:54

Lowest Channel / 10MHz / 16QAM



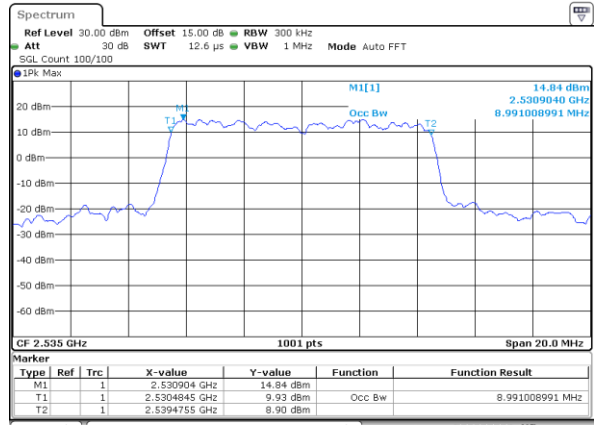
Date: 15\_JAN.2019 15:08:05

Middle Channel / 10MHz / QPSK



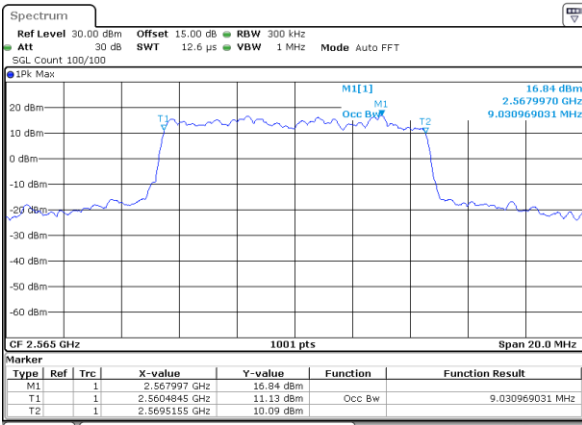
Date: 15\_JAN.2019 15:15:01

Middle Channel / 10MHz / 16QAM



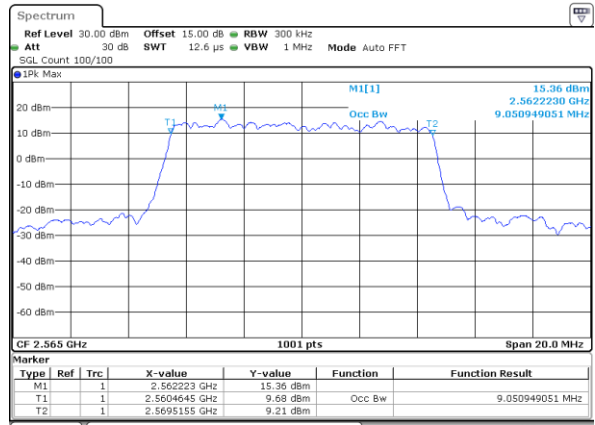
Date: 15\_JAN.2019 15:15:11

Highest Channel / 10MHz / QPSK



Date: 15\_JAN.2019 15:17:29

Highest Channel / 10MHz / 16QAM

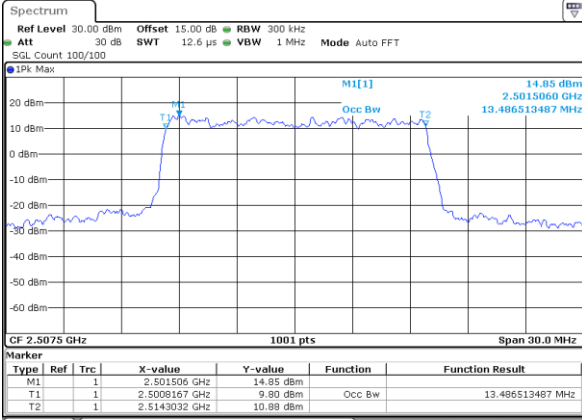


Date: 15\_JAN.2019 15:17:39



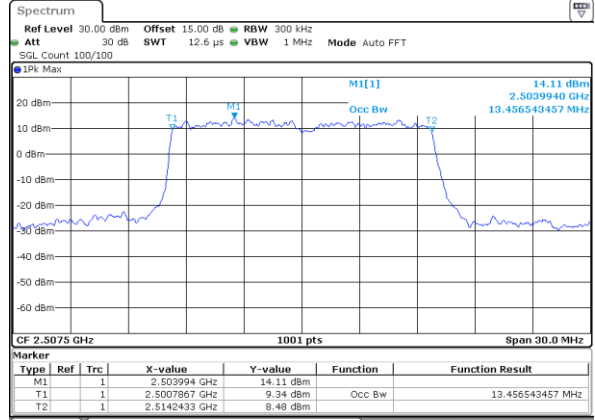
LTE Band 7

Lowest Channel / 15MHz / QPSK



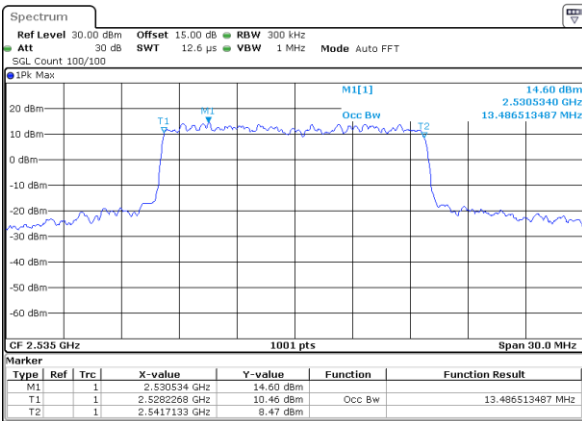
Date: 15\_JAN.2019 15:30:39

Lowest Channel / 15MHz / 16QAM



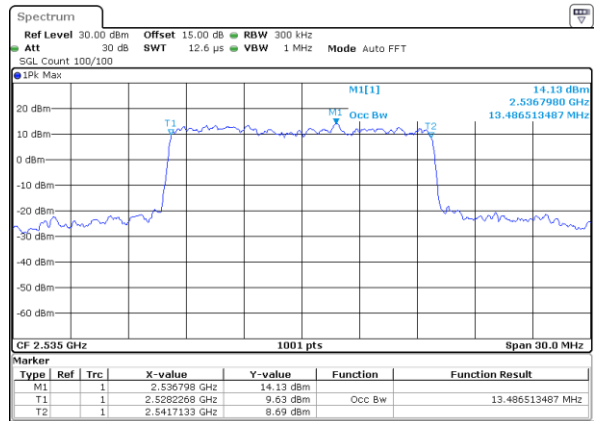
Date: 15\_JAN.2019 15:30:49

Middle Channel / 15MHz / QPSK



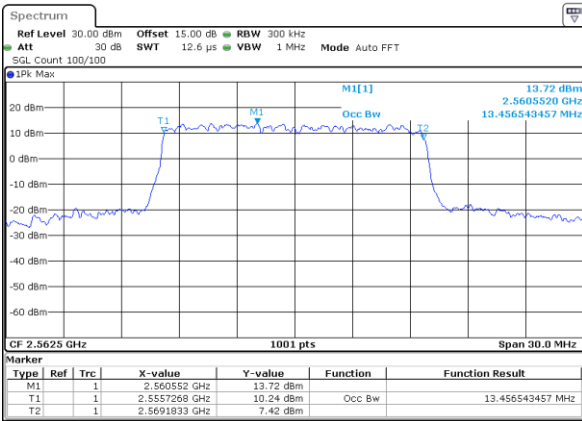
Date: 15\_JAN.2019 15:37:47

Middle Channel / 15MHz / 16QAM



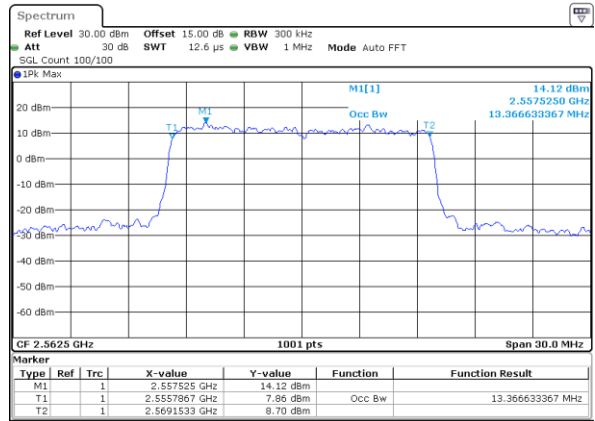
Date: 15\_JAN.2019 15:37:57

Highest Channel / 15MHz / QPSK



Date: 15\_JAN.2019 15:40:14

Highest Channel / 15MHz / 16QAM

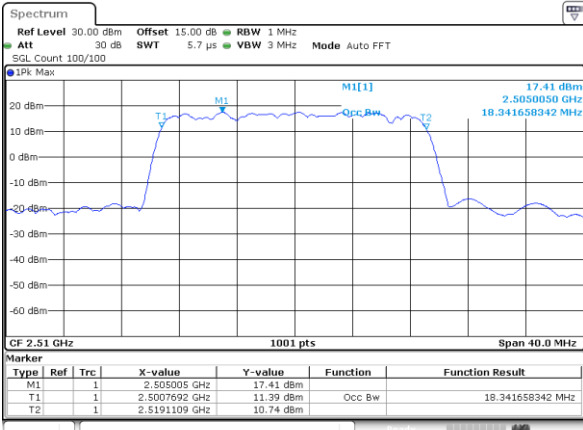


Date: 15\_JAN.2019 15:40:24



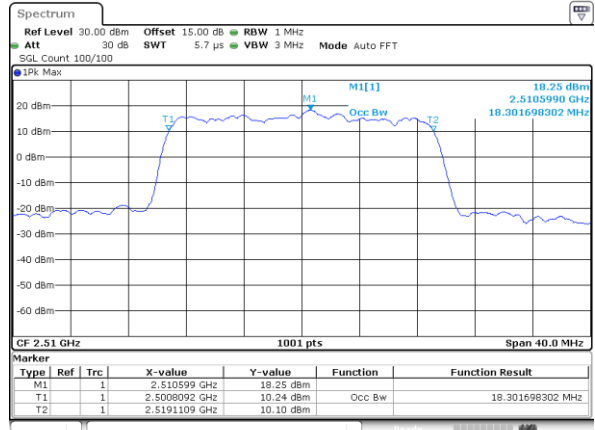
LTE Band 7

Lowest Channel / 20MHz / QPSK



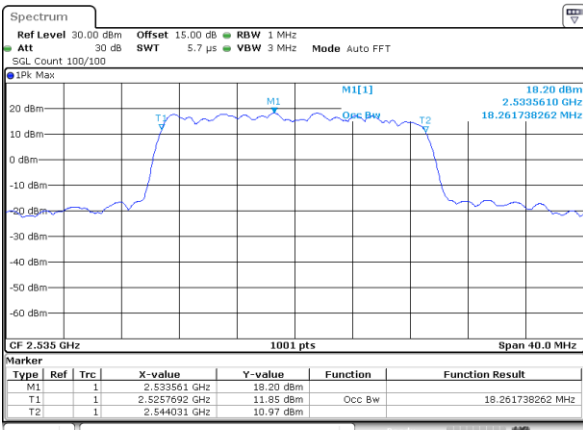
Date: 15\_JAN.2019 15:48:33

Lowest Channel / 20MHz / 16QAM



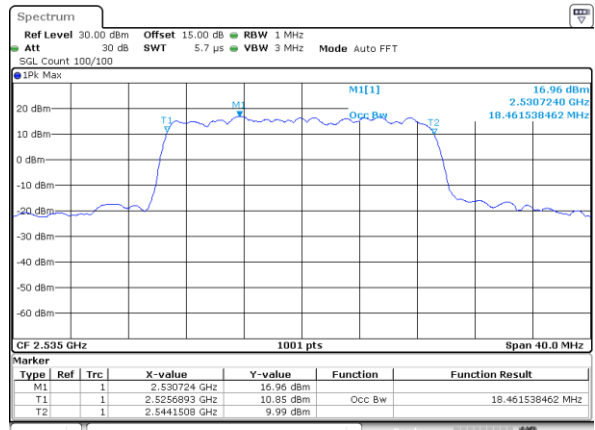
Date: 15\_JAN.2019 15:48:44

Middle Channel / 20MHz / QPSK



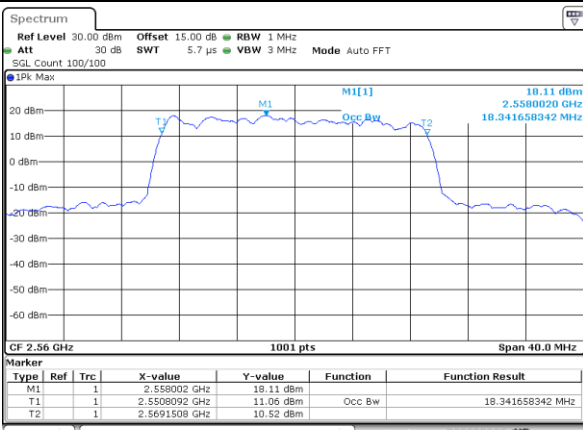
Date: 15\_JAN.2019 15:55:41

Middle Channel / 20MHz / 16QAM



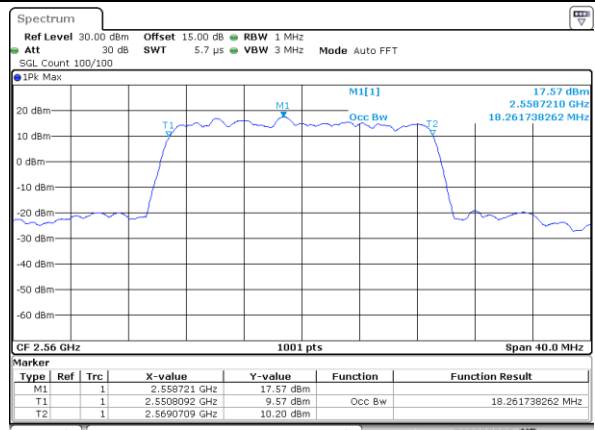
Date: 15\_JAN.2019 15:55:51

Highest Channel / 20MHz / QPSK



Date: 15\_JAN.2019 15:58:09

Highest Channel / 20MHz / 16QAM



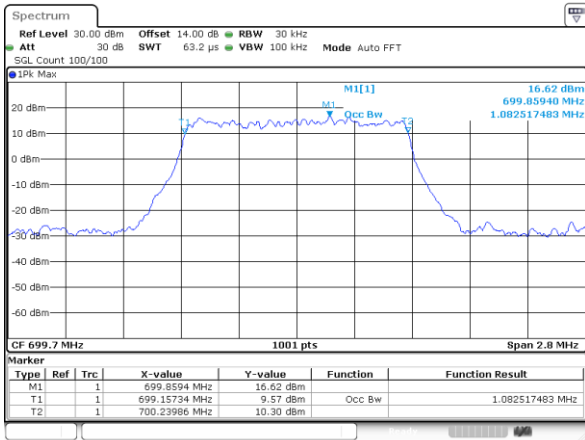
Date: 15\_JAN.2019 15:58:19





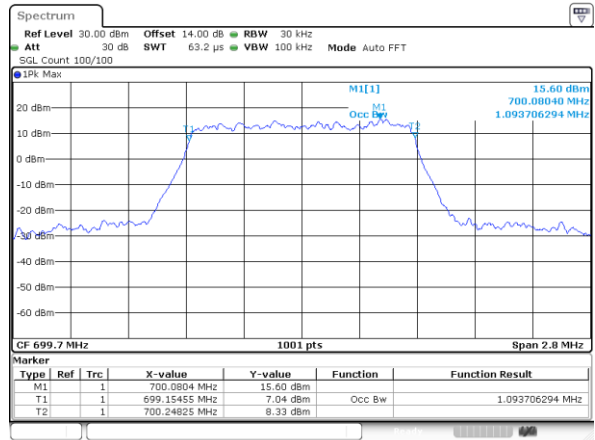
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



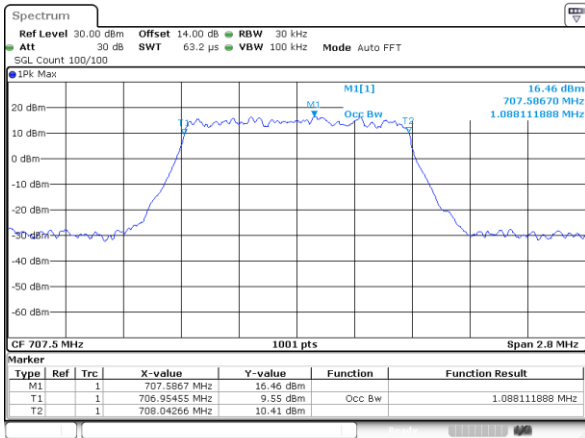
Date: 3\_JAN, 2019 15:24:36

Lowest Channel / 1.4MHz / 16QAM



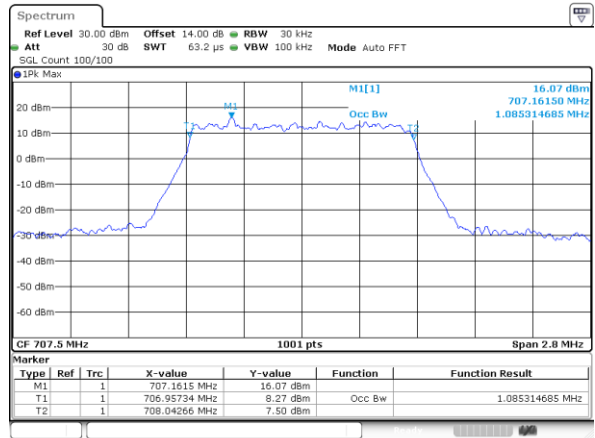
Date: 3\_JAN, 2019 15:24:46

Middle Channel / 1.4MHz / QPSK



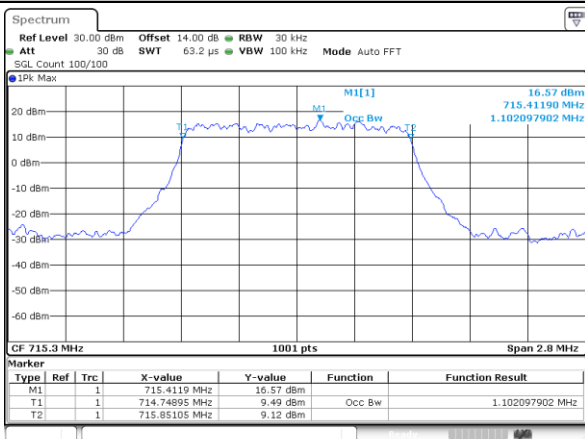
Date: 3\_JAN, 2019 15:39:36

Middle Channel / 1.4MHz / 16QAM



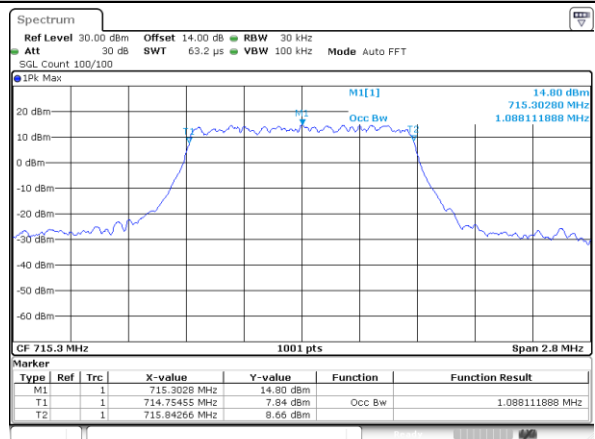
Date: 3\_JAN, 2019 15:39:46

Highest Channel / 1.4MHz / QPSK



Date: 3\_JAN, 2019 15:42:09

Highest Channel / 1.4MHz / 16QAM



Date: 3\_JAN, 2019 15:42:19