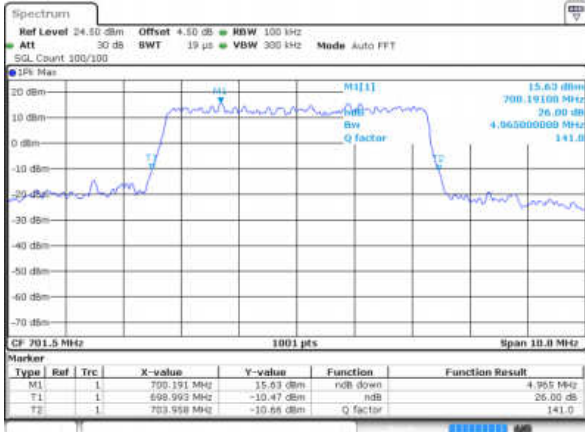




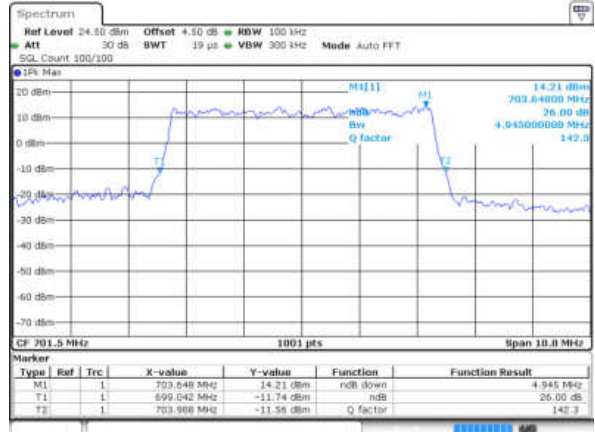
LTE Band 12

Lowest Channel / 5MHz / QPSK



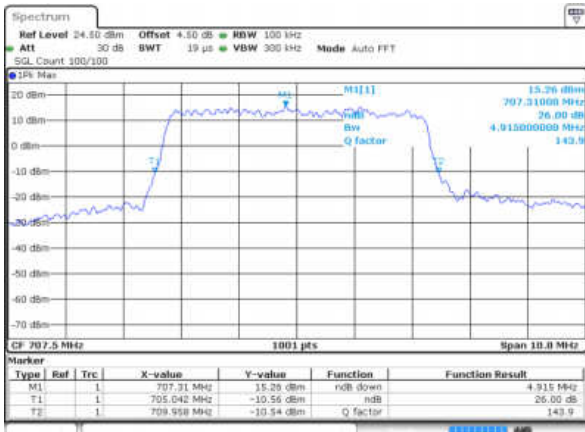
Date: 13 JAN 2018 16:03:43

Lowest Channel / 5MHz / 16QAM



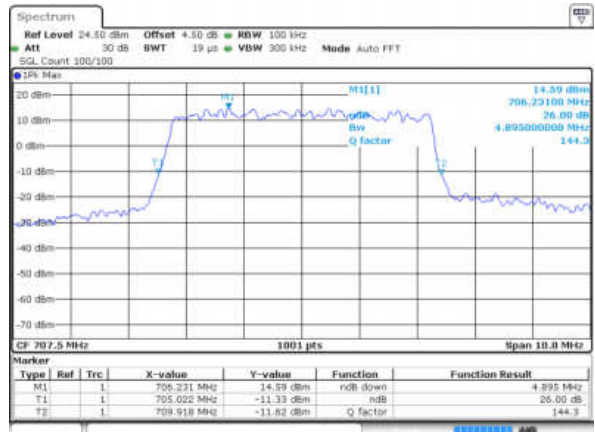
Date: 13 JAN 2018 16:03:35

Middle Channel / 5MHz / QPSK



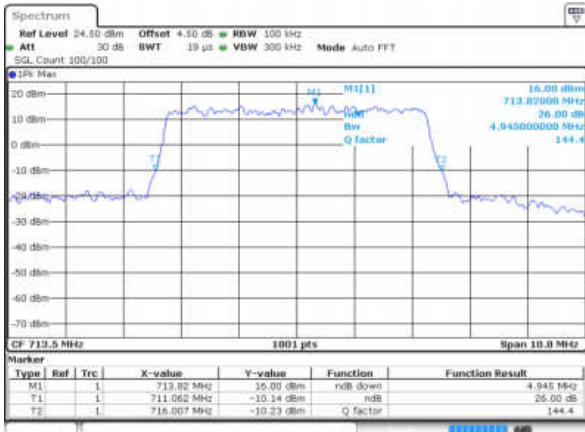
Date: 13 JAN 2018 16:03:15

Middle Channel / 5MHz / 16QAM



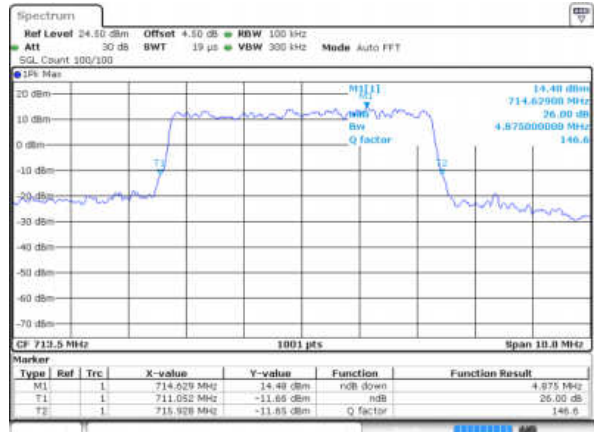
Date: 13 JAN 2018 16:03:25

Highest Channel / 5MHz / QPSK



Date: 13 JAN 2018 16:03:05

Highest Channel / 5MHz / 16QAM

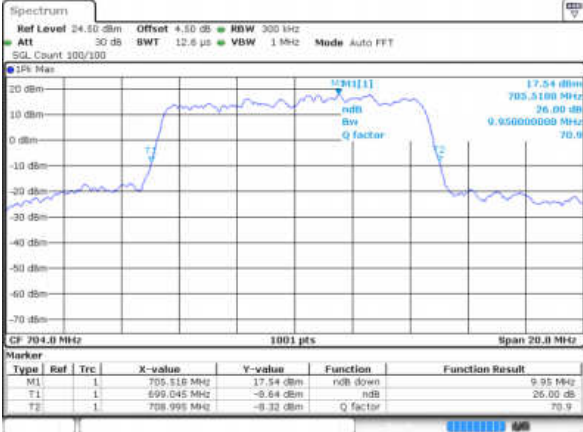


Date: 13 JAN 2018 16:02:53



LTE Band 12

Lowest Channel / 10MHz / QPSK



Date: 13 JAN 2018 16:20:08

Lowest Channel / 10MHz / 16QAM



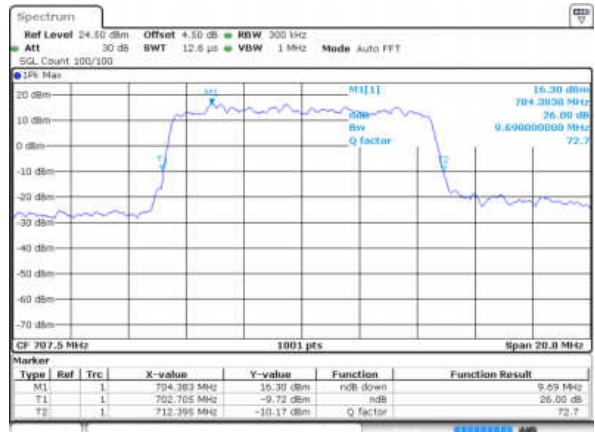
Date: 13 JAN 2018 16:19:56

Middle Channel / 10MHz / QPSK



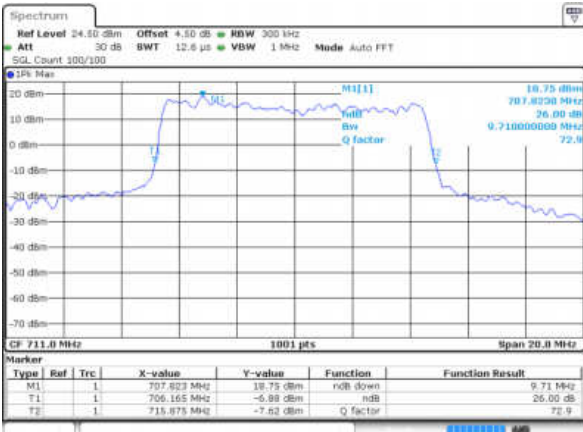
Date: 13 JAN 2018 16:19:38

Middle Channel / 10MHz / 16QAM



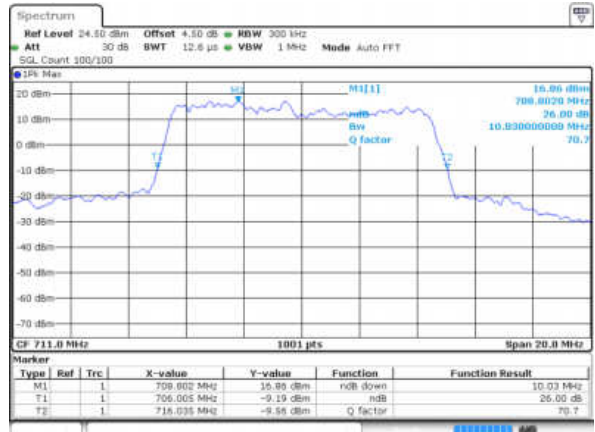
Date: 13 JAN 2018 16:19:46

Highest Channel / 10MHz / QPSK



Date: 13 JAN 2018 16:19:28

Highest Channel / 10MHz / 16QAM

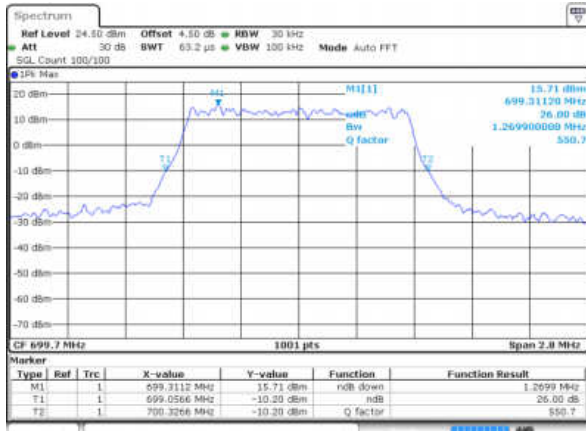


Date: 13 JAN 2018 16:19:19



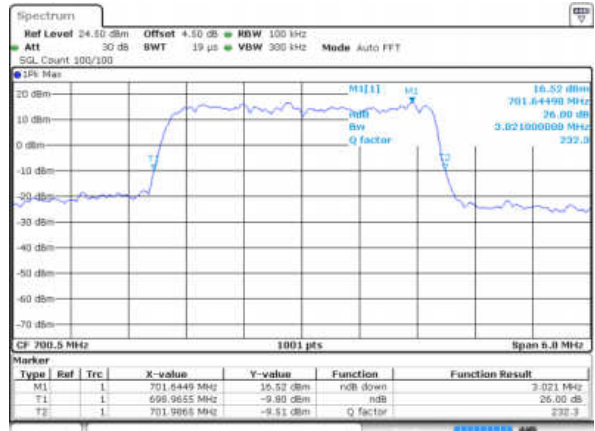
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



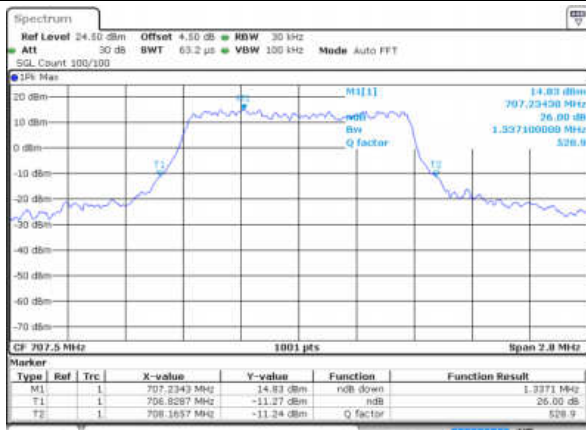
Date: 13 JAN 2018 16:36:46

Lowest Channel / 3MHz / 64QAM



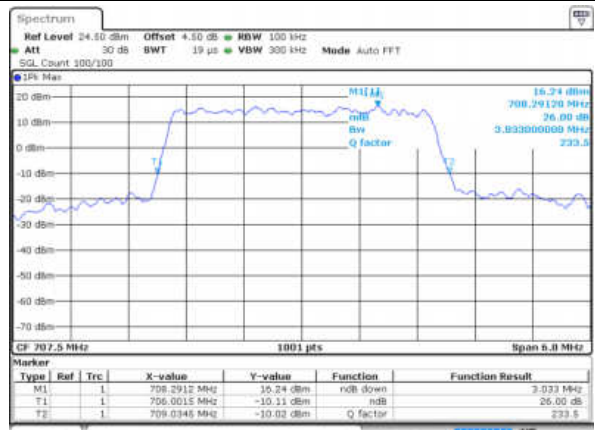
Date: 13 JAN 2018 16:37:45

Middle Channel / 1.4MHz / 64QAM



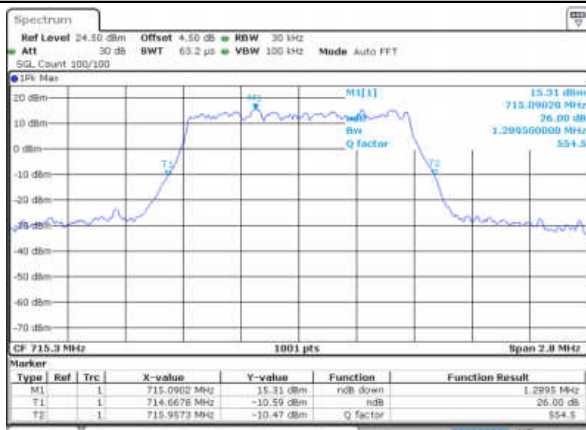
Date: 13 JAN 2018 16:37:06

Middle Channel / 3MHz / 64QAM



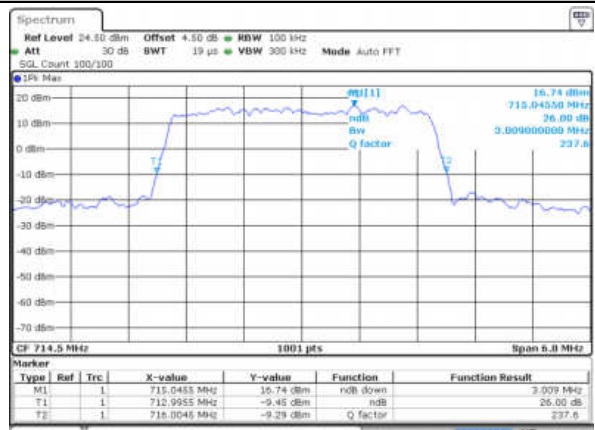
Date: 13 JAN 2018 16:38:05

Highest Channel / 1.4MHz / 64QAM



Date: 13 JAN 2018 16:37:25

Highest Channel / 3MHz / 64QAM

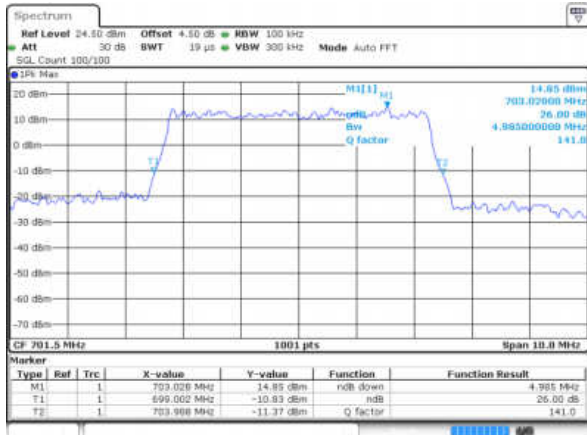


Date: 13 JAN 2018 16:38:25

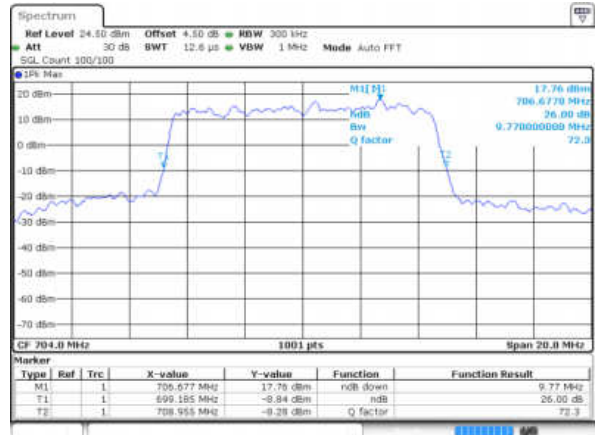


LTE Band 12

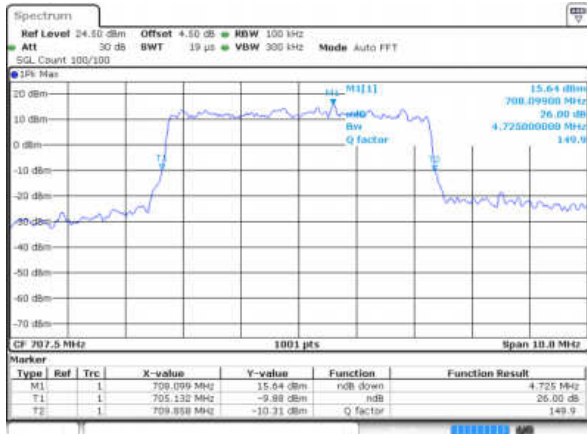
Lowest Channel / 5MHz / 64QAM



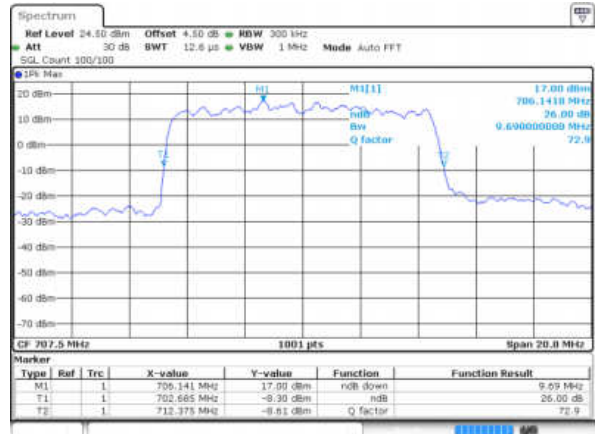
Lowest Channel / 10MHz / 64QAM



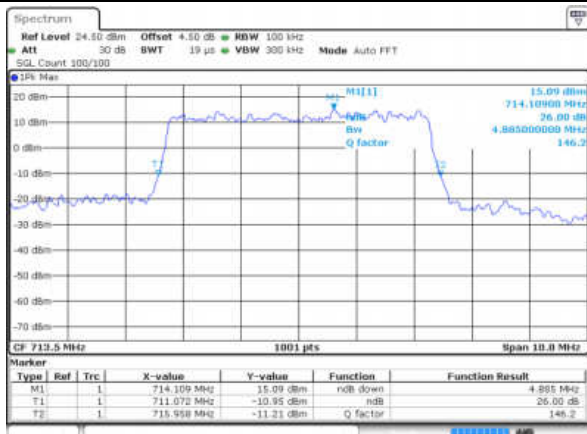
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



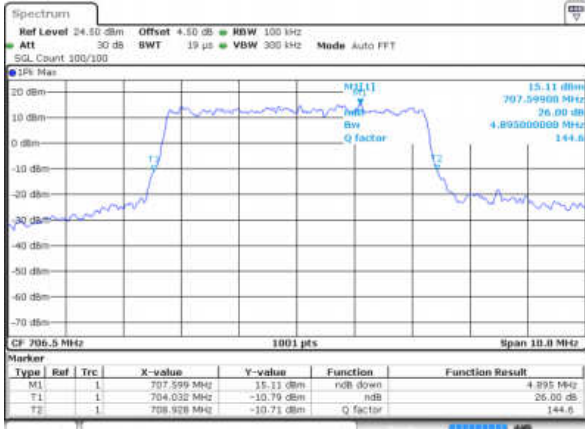
Highest Channel / 10MHz / 64QAM





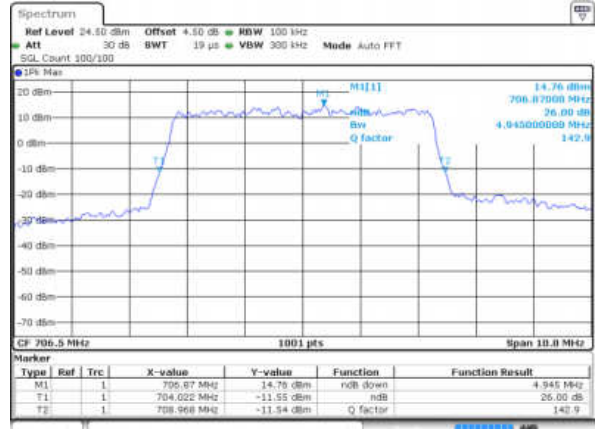
LTE Band 17

Lowest Channel / 5MHz / QPSK



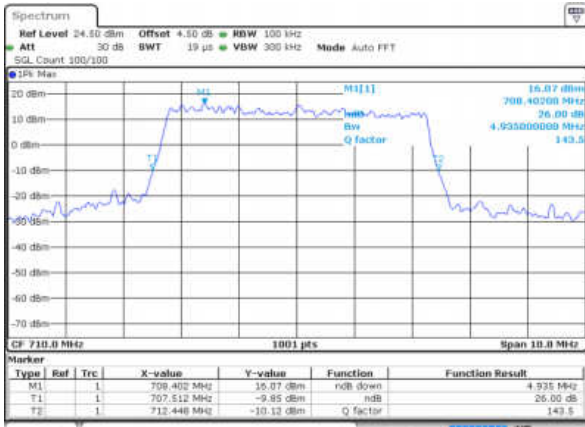
Date: 13 JAN 2018 14:16:03

Lowest Channel / 5MHz / 16QAM



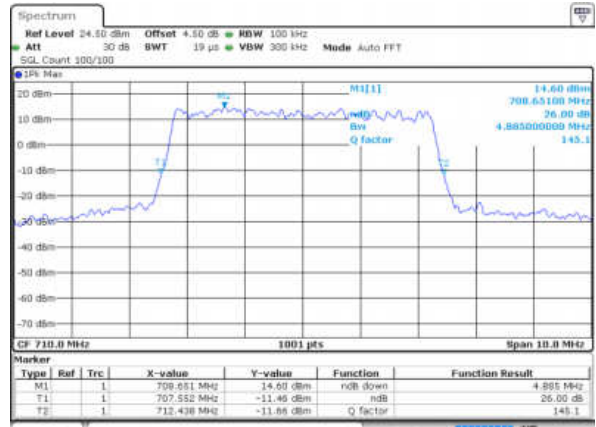
Date: 13 JAN 2018 14:16:13

Middle Channel / 5MHz / QPSK



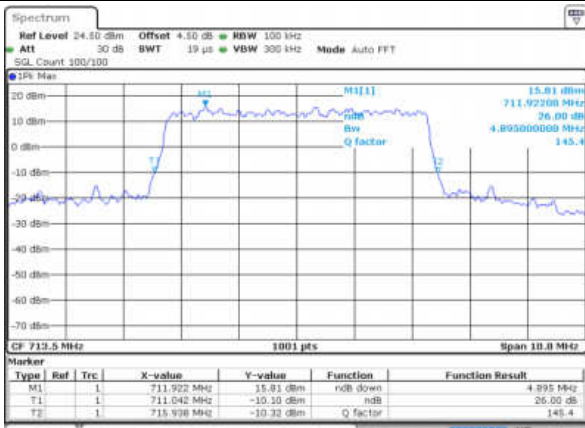
Date: 13 JAN 2018 14:23:02

Middle Channel / 5MHz / 16QAM



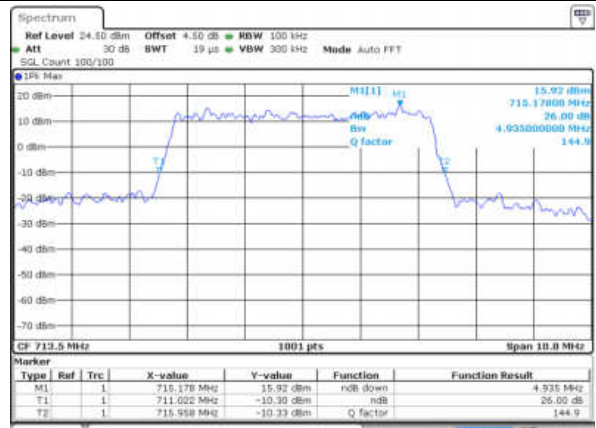
Date: 13 JAN 2018 14:23:12

Highest Channel / 5MHz / QPSK



Date: 13 JAN 2018 14:25:30

Highest Channel / 5MHz / 16QAM

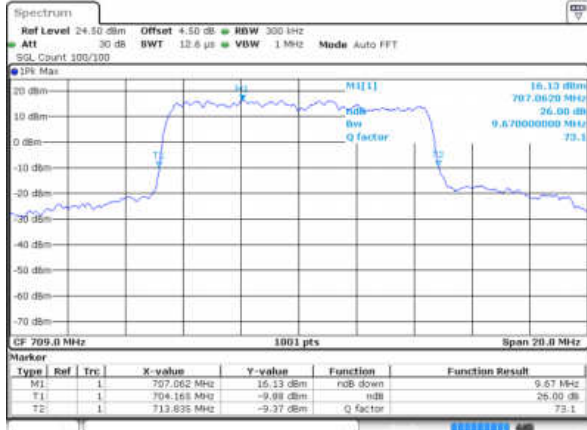


Date: 13 JAN 2018 14:25:40



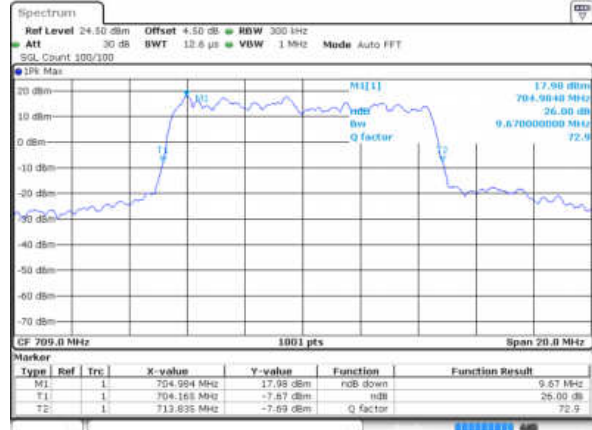
LTE Band 17

Lowest Channel / 10MHz / QPSK



Date: 13 JAN 2018 14:32:29

Lowest Channel / 10MHz / 16QAM



Date: 13 JAN 2018 14:32:38

Middle Channel / 10MHz / QPSK



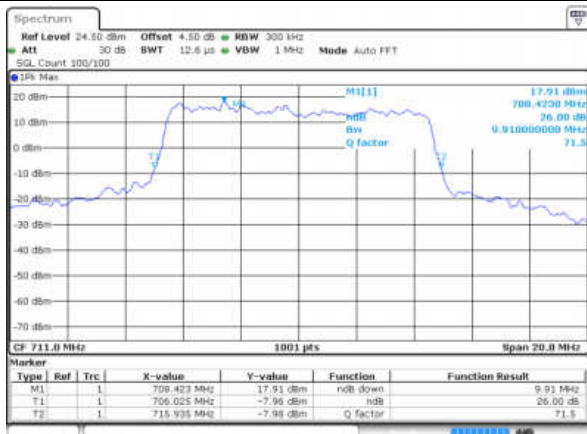
Date: 13 JAN 2018 14:39:27

Middle Channel / 10MHz / 16QAM



Date: 13 JAN 2018 14:39:37

Highest Channel / 10MHz / QPSK



Date: 13 JAN 2018 14:41:56

Highest Channel / 10MHz / 16QAM

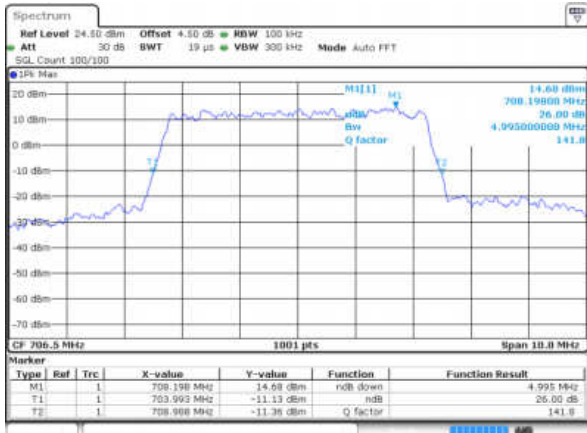


Date: 13 JAN 2018 14:42:06



LTE Band 17

Lowest Channel / 5MHz / 64QAM



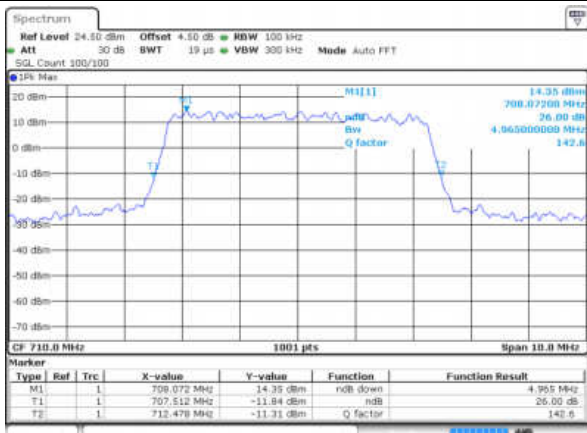
Date: 13 JAN 2018 14:54:57

Lowest Channel / 10MHz / 64QAM



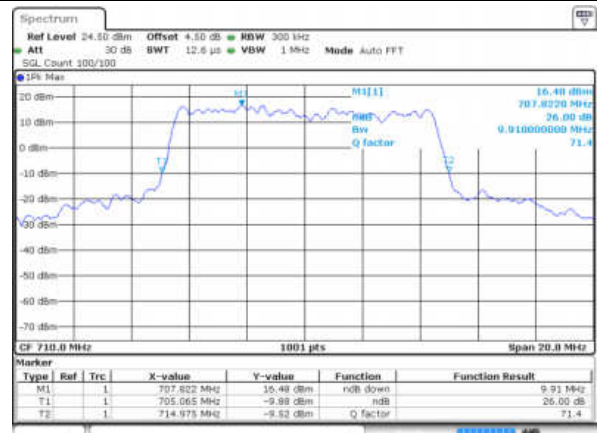
Date: 13 JAN 2018 14:55:58

Middle Channel / 5MHz / 64QAM



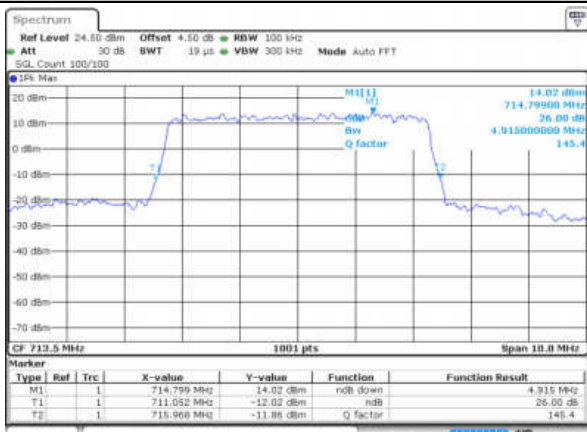
Date: 13 JAN 2018 14:55:17

Middle Channel / 10MHz / 64QAM



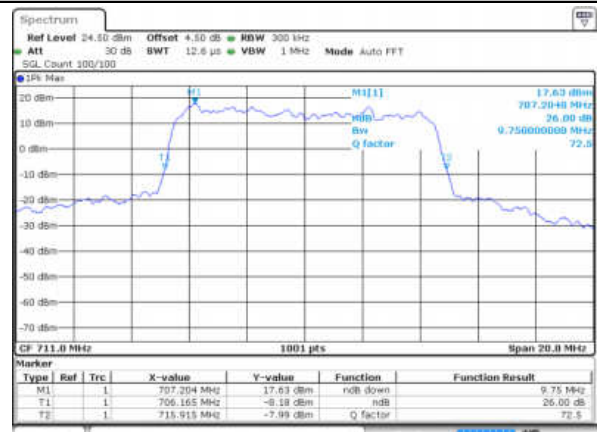
Date: 13 JAN 2018 14:56:58

Highest Channel / 5MHz / 64QAM



Date: 13 JAN 2018 14:56:38

Highest Channel / 10MHz / 64QAM



Date: 13 JAN 2018 14:56:38



Occupied Bandwidth

Table with 13 columns: Mode, BW (1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz), Mod. (QPSK, 16QAM), and rows for Lowest CH, Middle CH, Highest CH. Title: LTE Band 2 : 99%OBW(MHz)

Table with 13 columns: Mode, BW (1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz), Mod. (64QAM), and rows for Lowest CH, Middle CH, Highest CH. Title: LTE Band 4 : 99%OBW(MHz)

Table with 13 columns: Mode, BW (1.4MHz, 3MHz, 5MHz, 10MHz, 1.4MHz, 3MHz, 5MHz, 10MHz), Mod. (QPSK, 16QAM, 64QAM), and rows for Lowest CH, Middle CH, Highest CH. Title: LTE Band 5 : 99%OBW(MHz)



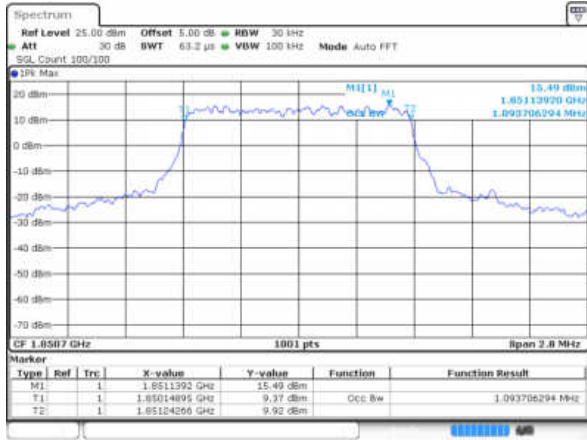
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.1	1.09	2.72	2.72	4.49	4.48	9.01	9.01	1.1	2.73	4.5	8.99
Middle CH	1.1	1.1	2.72	2.72	4.47	4.48	9.01	8.99	1.09	2.72	4.47	8.99
Highest CH	1.1	1.09	2.72	2.73	4.53	4.5	9.01	9.07	1.1	2.72	4.5	9.05

Mode	LTE Band 17 : 99%OBW(MHz)											
BW					5MHz		10MHz		5MHz	10MHz		
Mod.					QPSK	16QAM	QPSK	16QAM	64QAM	64QAM		
Lowest CH	-	-	-	-	4.49	4.5	8.99	8.99	4.48	8.99	-	-
Middle CH	-	-	-	-	4.52	4.49	9.01	8.99	4.48	9.01	-	-
Highest CH	-	-	-	-	4.5	4.51	9.13	8.99	4.51	9.05	-	-



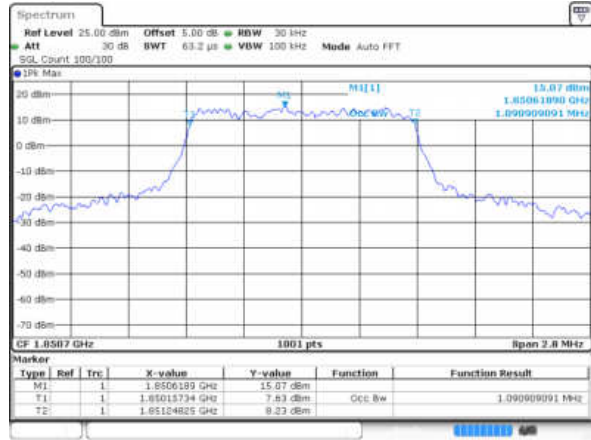
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



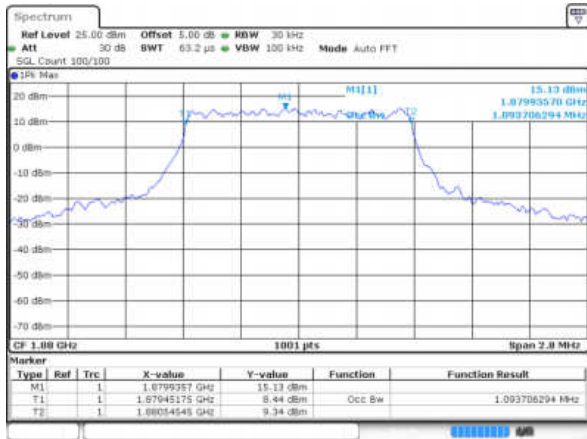
Date: 30 DEC 2017 13:32:45

Lowest Channel / 1.4MHz / 16QAM



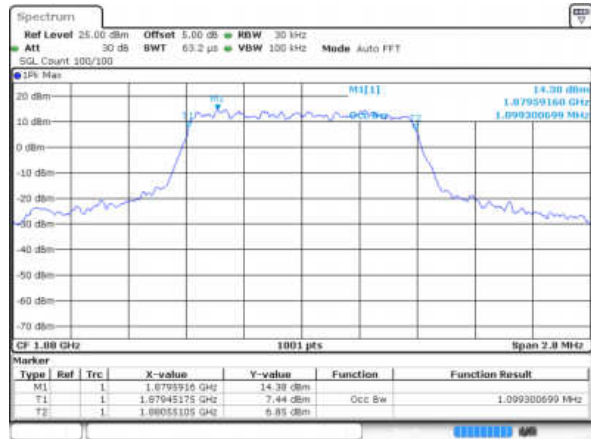
Date: 30 DEC 2017 13:32:55

Middle Channel / 1.4MHz / QPSK



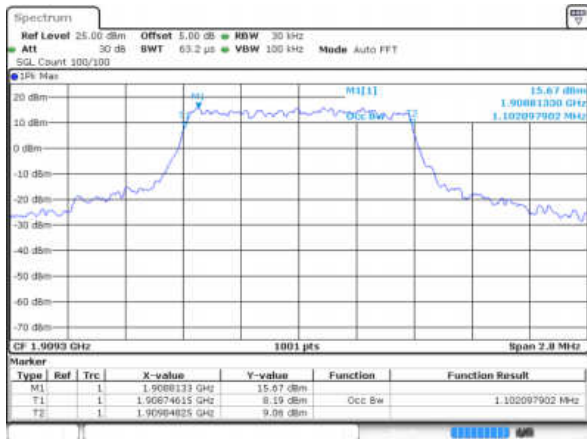
Date: 30 DEC 2017 13:39:43

Middle Channel / 1.4MHz / 16QAM



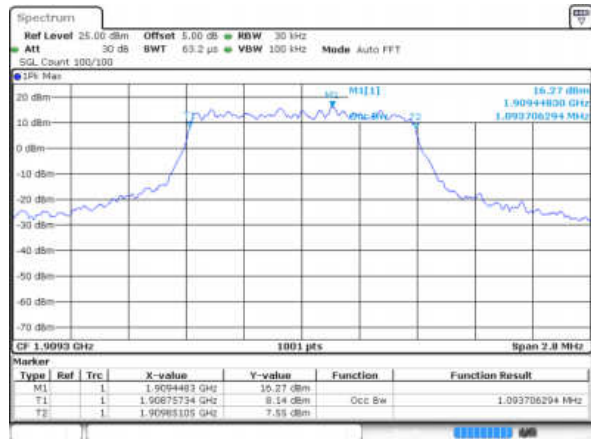
Date: 30 DEC 2017 13:39:53

Highest Channel / 1.4MHz / QPSK



Date: 30 DEC 2017 13:42:11

Highest Channel / 1.4MHz / 16QAM

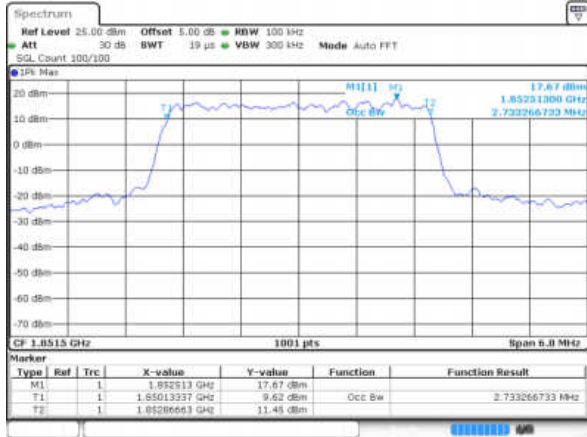


Date: 30 DEC 2017 13:42:21



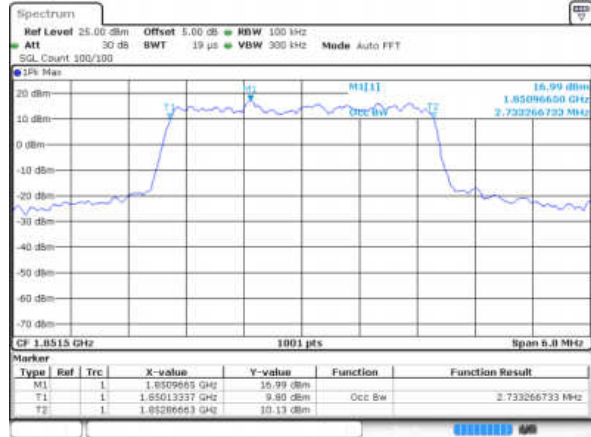
LTE Band 2

Lowest Channel / 3MHz / QPSK



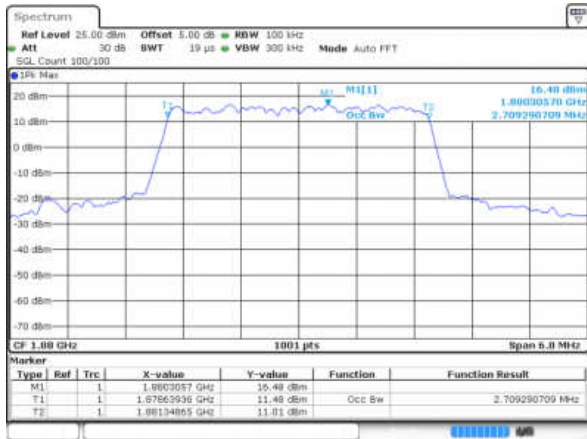
Date: 30 DEC 2017 13:49:09

Lowest Channel / 3MHz / 16QAM



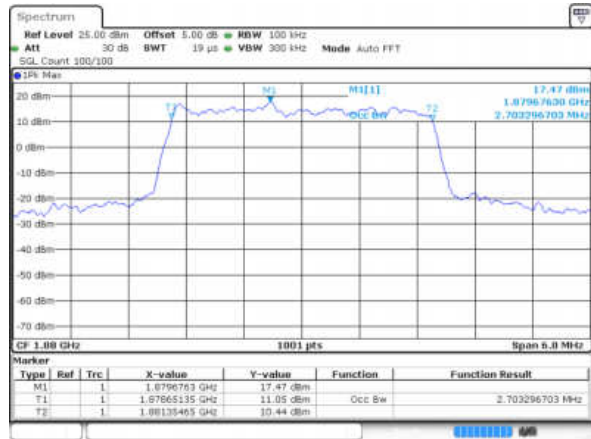
Date: 30 DEC 2017 13:49:19

Middle Channel / 3MHz / QPSK



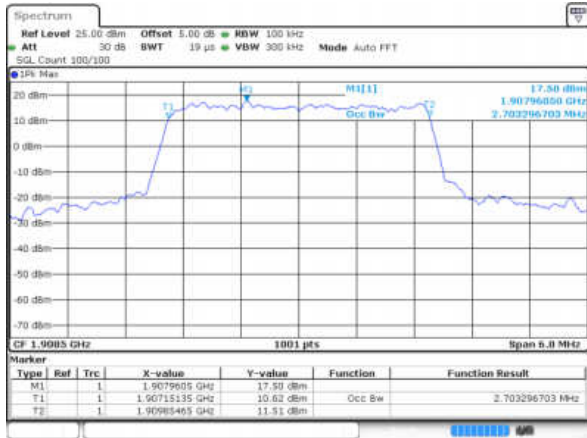
Date: 30 DEC 2017 13:58:07

Middle Channel / 3MHz / 16QAM



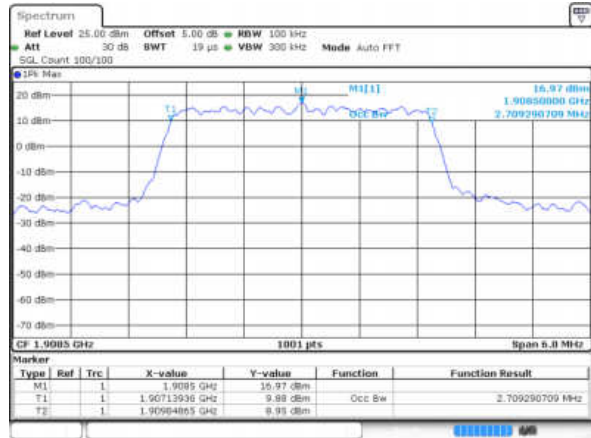
Date: 30 DEC 2017 13:58:16

Highest Channel / 3MHz / QPSK



Date: 30 DEC 2017 13:58:35

Highest Channel / 3MHz / 16QAM

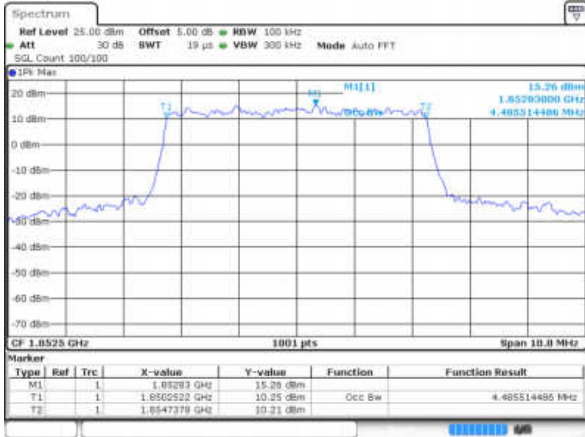


Date: 30 DEC 2017 13:58:45



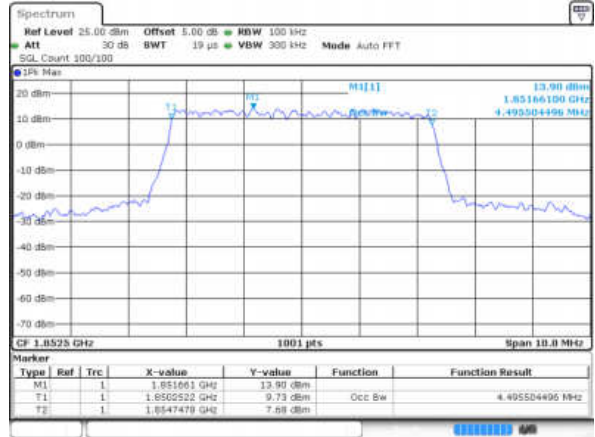
LTE Band 2

Lowest Channel / 5MHz / QPSK



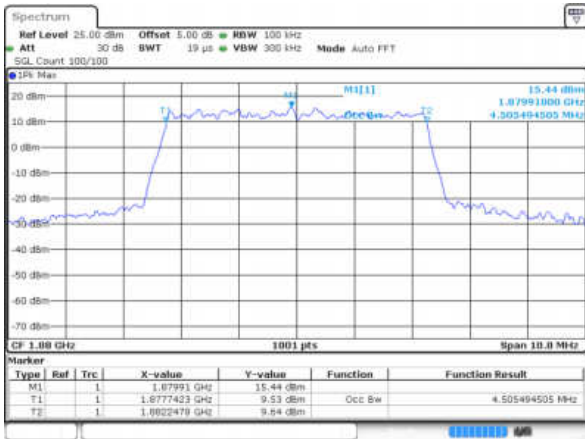
Date: 30 DEC 2017 14:00:33

Lowest Channel / 5MHz / 16QAM



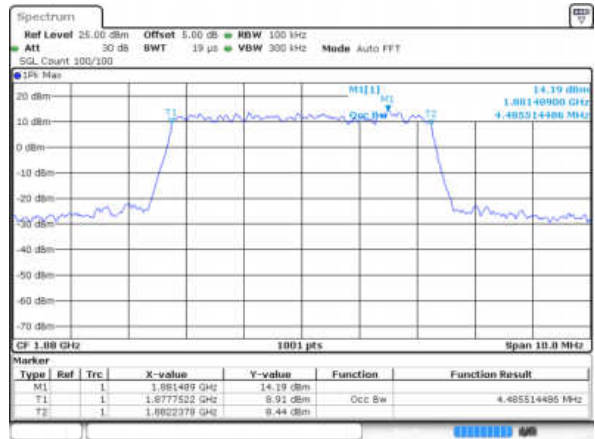
Date: 30 DEC 2017 14:05:43

Middle Channel / 5MHz / QPSK



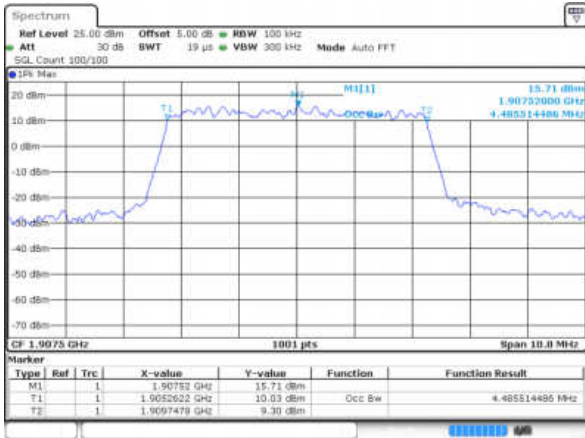
Date: 30 DEC 2017 14:12:30

Middle Channel / 5MHz / 16QAM



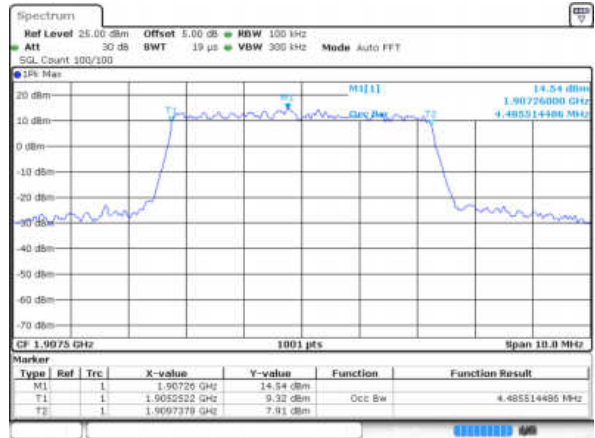
Date: 30 DEC 2017 14:12:40

Highest Channel / 5MHz / QPSK



Date: 30 DEC 2017 14:14:59

Highest Channel / 5MHz / 16QAM

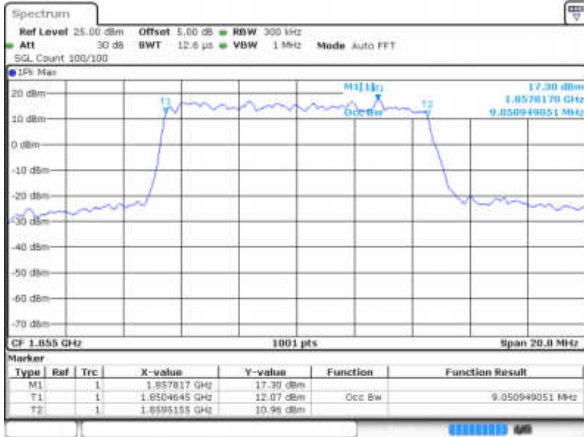


Date: 30 DEC 2017 14:15:09



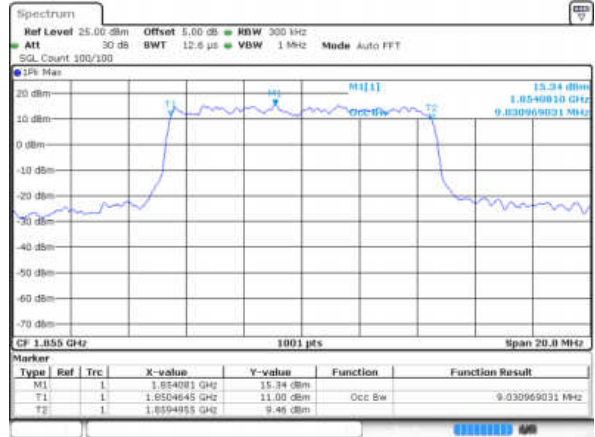
LTE Band 2

Lowest Channel / 10MHz / QPSK



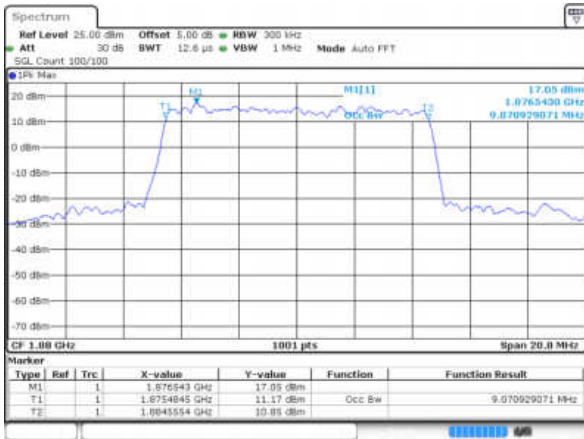
Date: 30 DEC 2017 14:21:56

Lowest Channel / 10MHz / 16QAM



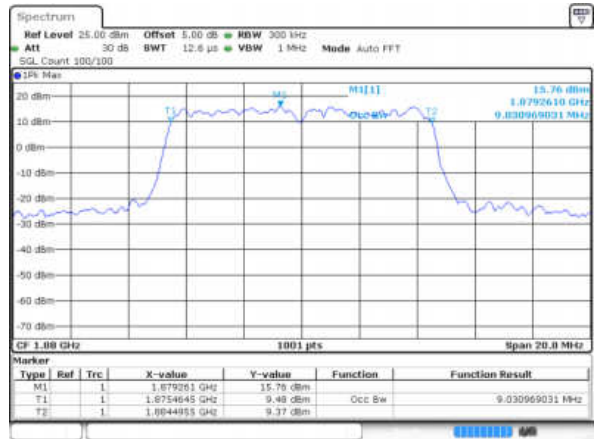
Date: 30 DEC 2017 14:22:06

Middle Channel / 10MHz / QPSK



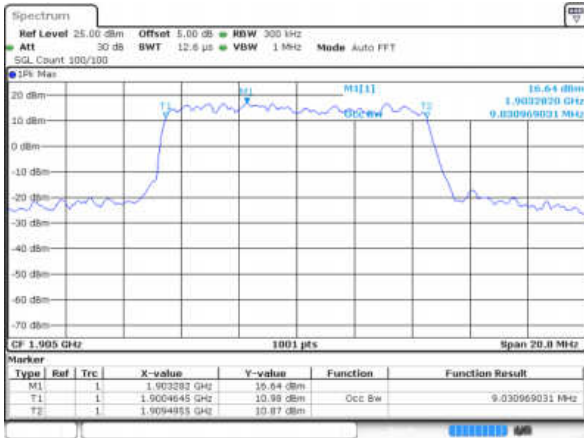
Date: 30 DEC 2017 14:28:54

Middle Channel / 10MHz / 16QAM



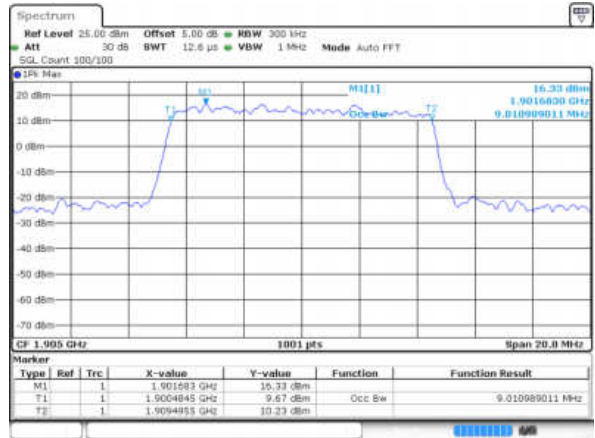
Date: 30 DEC 2017 14:29:54

Highest Channel / 10MHz / QPSK



Date: 30 DEC 2017 14:31:23

Highest Channel / 10MHz / 16QAM

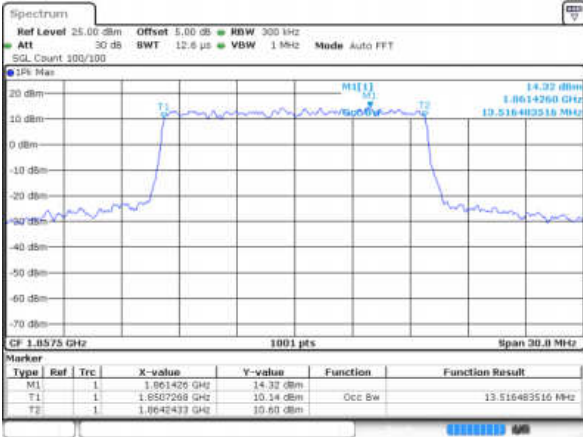


Date: 30 DEC 2017 14:31:32



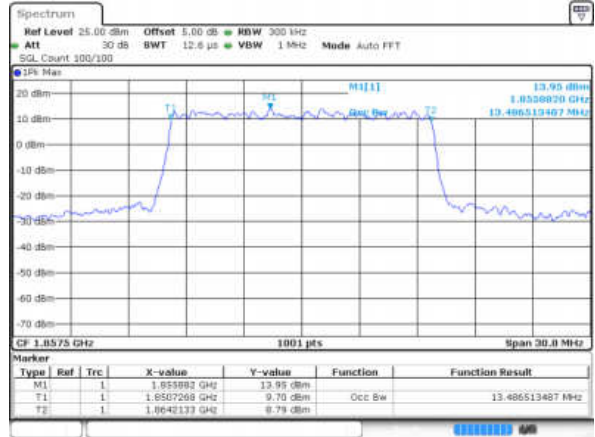
LTE Band 2

Lowest Channel / 15MHz / QPSK



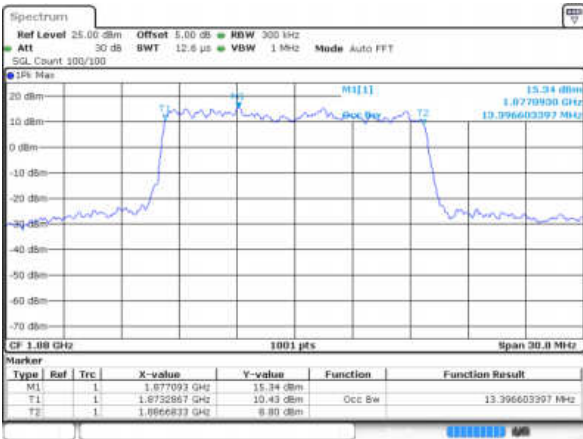
Date: 30 DEC 2017 14:38:20

Lowest Channel / 15MHz / 16QAM



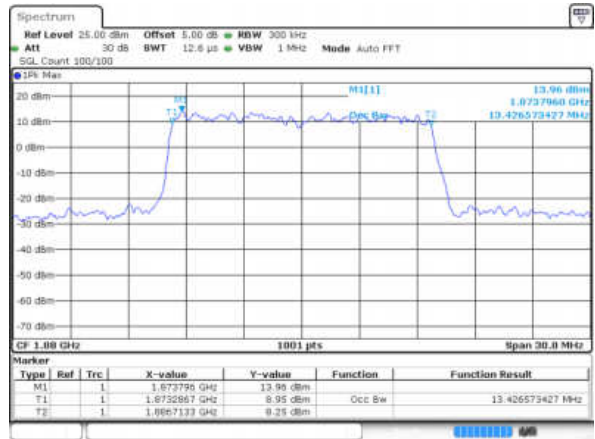
Date: 30 DEC 2017 14:38:30

Middle Channel / 15MHz / QPSK



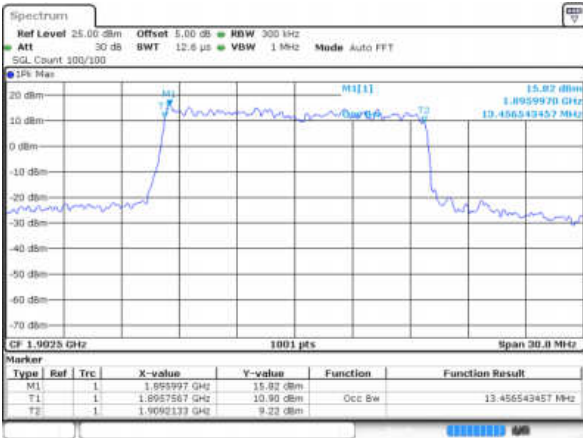
Date: 30 DEC 2017 14:45:18

Middle Channel / 15MHz / 16QAM



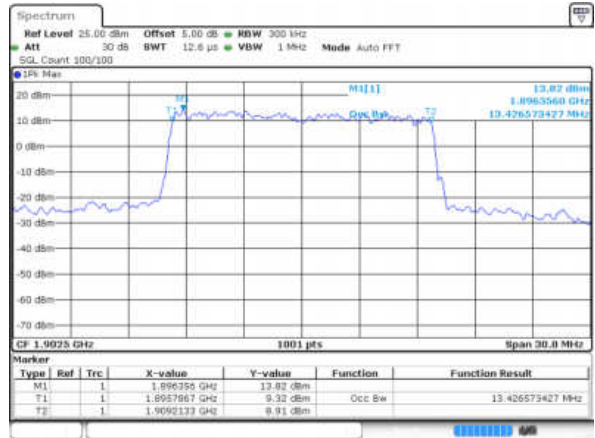
Date: 30 DEC 2017 14:45:28

Highest Channel / 15MHz / QPSK



Date: 30 DEC 2017 14:47:47

Highest Channel / 15MHz / 16QAM

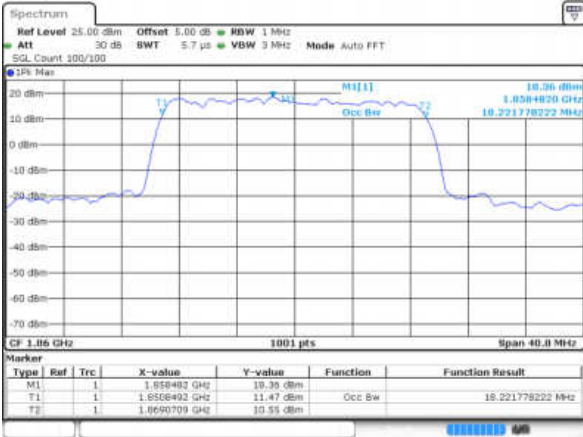


Date: 30 DEC 2017 14:47:57



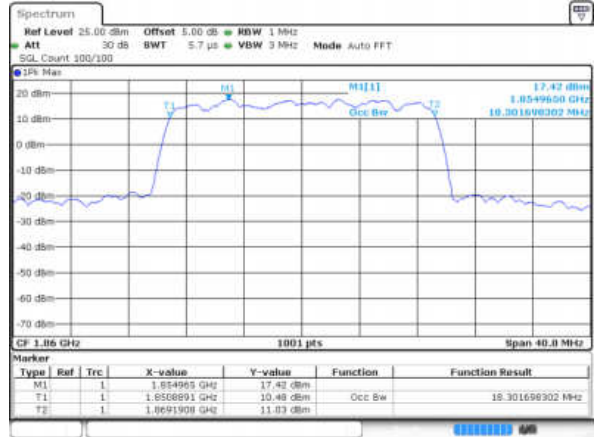
LTE Band 2

Lowest Channel / 20MHz / QPSK



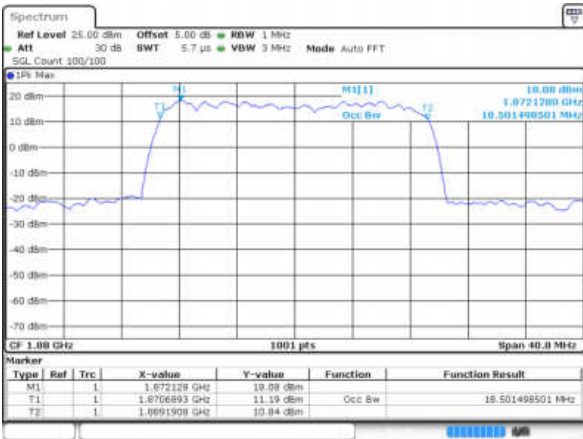
Date: 30 DEC 2017 14:54:44

Lowest Channel / 20MHz / 16QAM



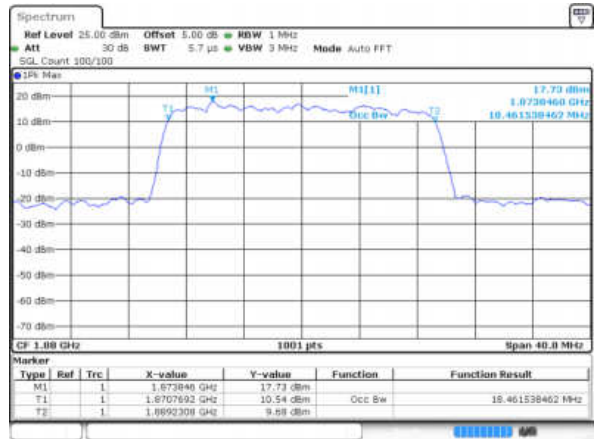
Date: 30 DEC 2017 14:54:54

Middle Channel / 20MHz / QPSK



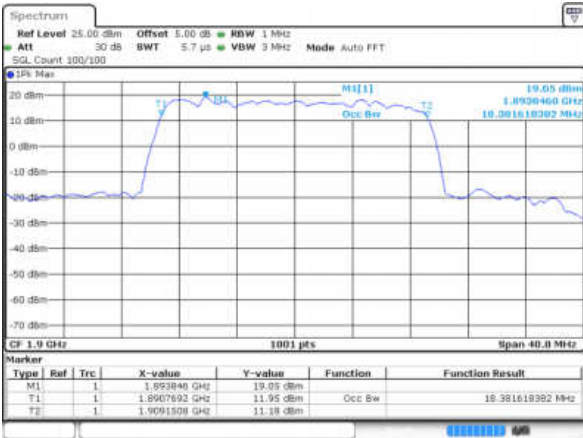
Date: 30 DEC 2017 15:01:42

Middle Channel / 20MHz / 16QAM



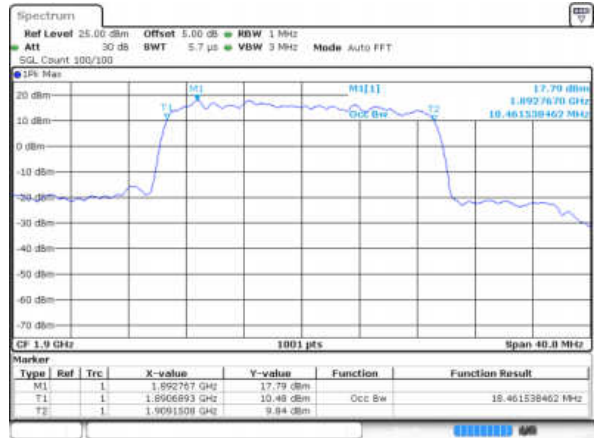
Date: 30 DEC 2017 15:01:52

Highest Channel / 20MHz / QPSK



Date: 30 DEC 2017 15:04:10

Highest Channel / 20MHz / 16QAM

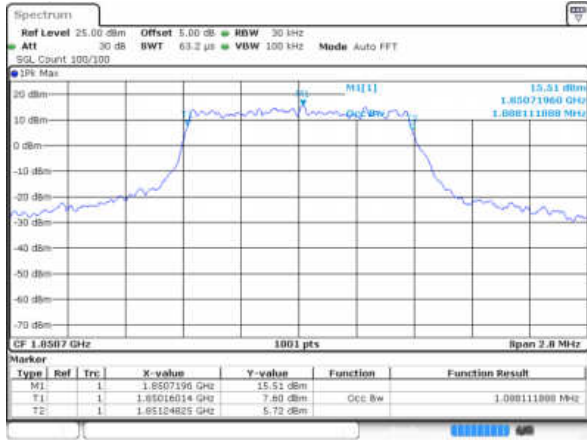


Date: 30 DEC 2017 15:04:20



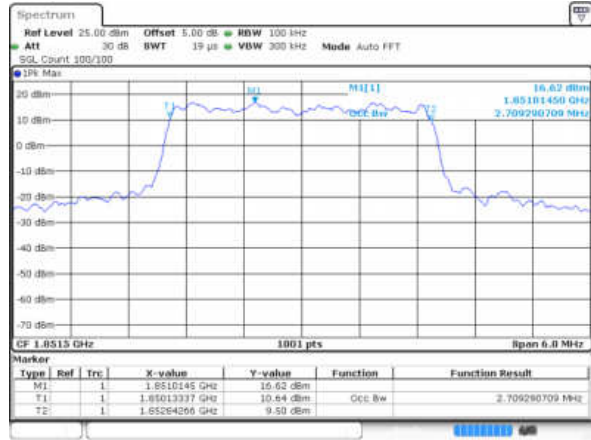
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



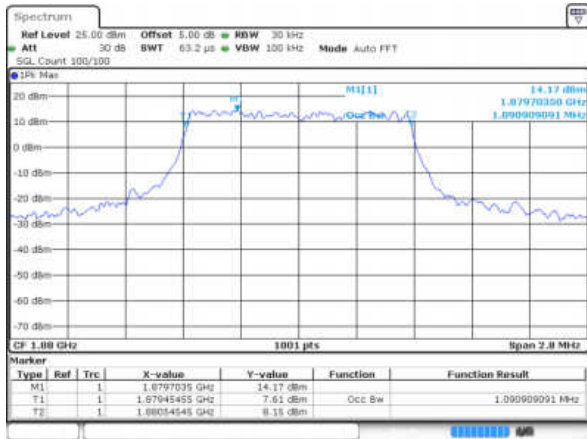
Date: 30 DEC 2017 15:28:52

Lowest Channel / 3MHz / 64QAM



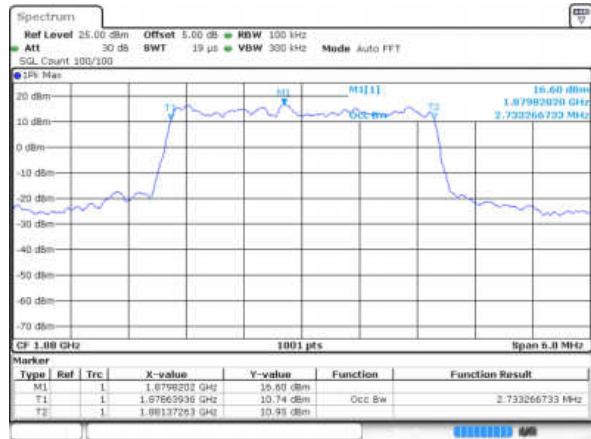
Date: 30 DEC 2017 15:25:53

Middle Channel / 1.4MHz / 64QAM



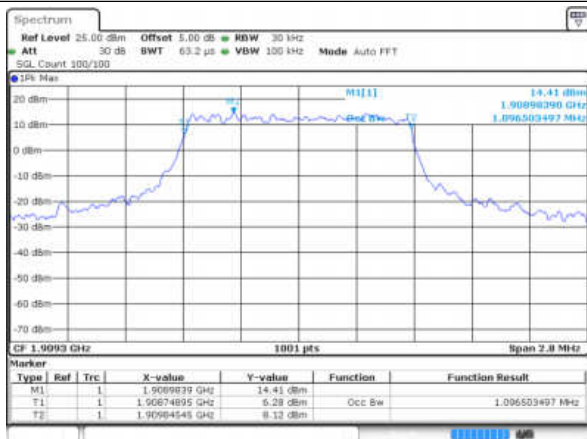
Date: 30 DEC 2017 15:27:12

Middle Channel / 3MHz / 64QAM



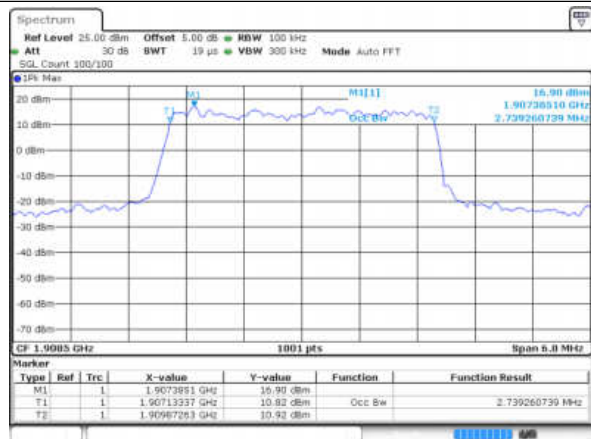
Date: 30 DEC 2017 15:26:13

Highest Channel / 1.4MHz / 64QAM



Date: 30 DEC 2017 15:27:32

Highest Channel / 3MHz / 64QAM

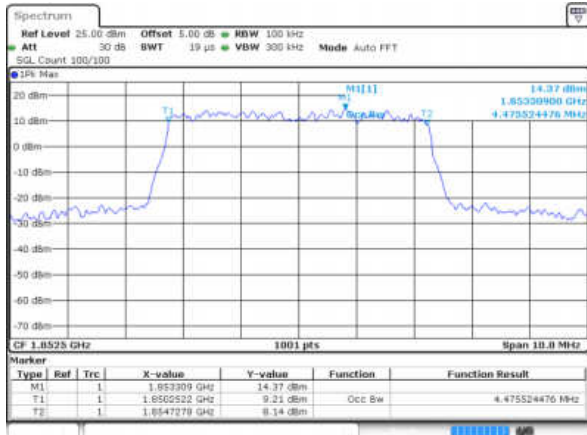


Date: 30 DEC 2017 15:26:53



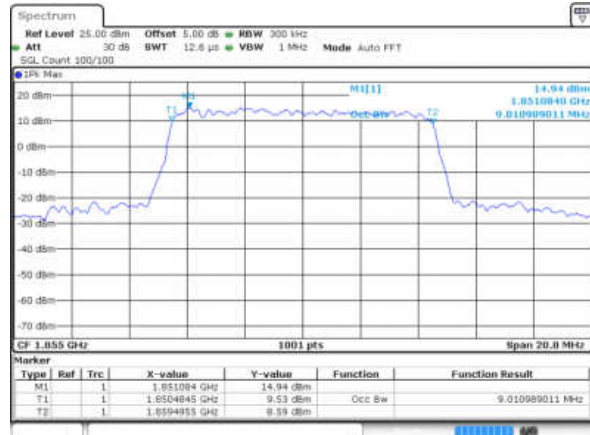
LTE Band 2

Lowest Channel / 5MHz / 64QAM



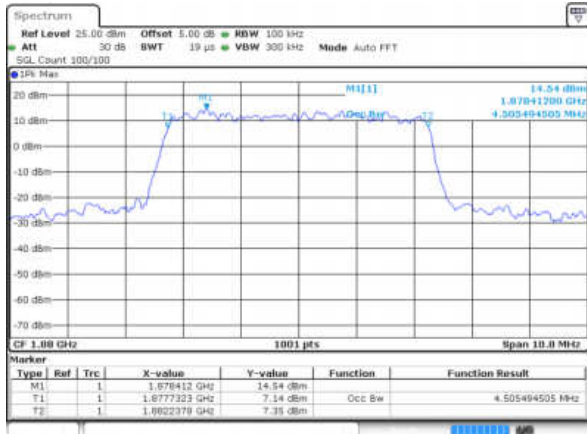
Date: 30 DEC 2017 15:24:54

Lowest Channel / 10MHz / 64QAM



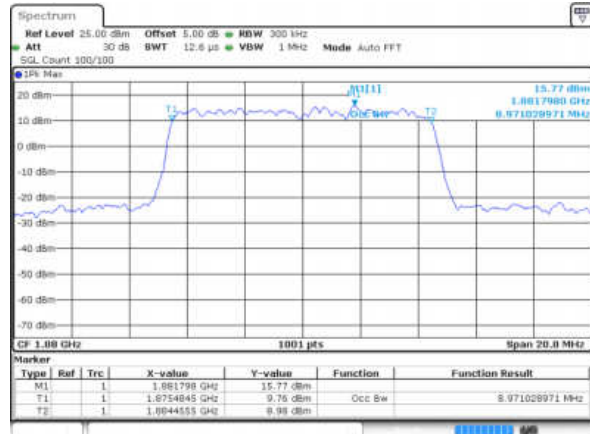
Date: 30 DEC 2017 15:23:54

Middle Channel / 5MHz / 64QAM



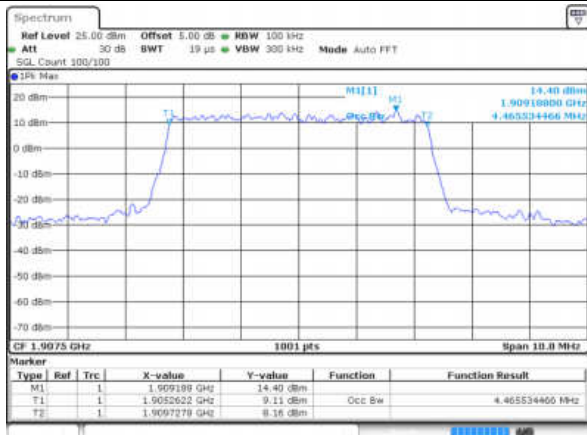
Date: 30 DEC 2017 15:25:13

Middle Channel / 10MHz / 64QAM



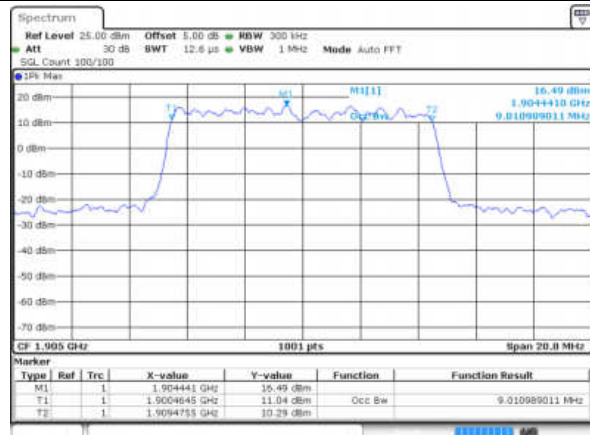
Date: 30 DEC 2017 15:24:14

Highest Channel / 5MHz / 64QAM



Date: 30 DEC 2017 15:23:33

Highest Channel / 10MHz / 64QAM

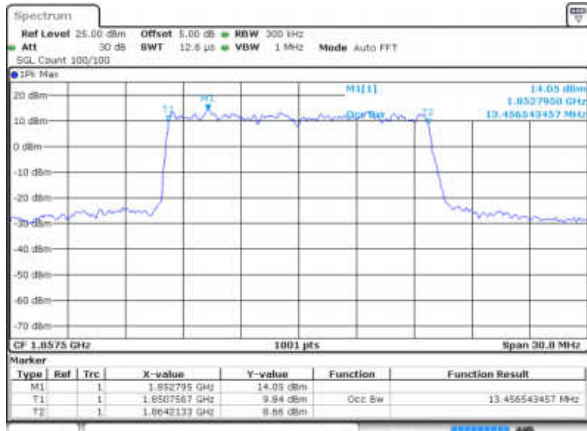


Date: 30 DEC 2017 15:24:34



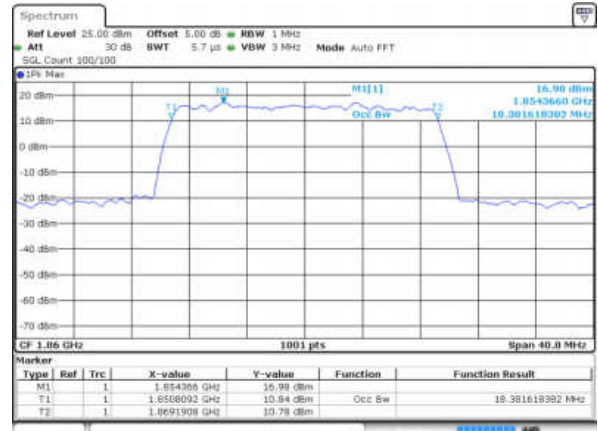
LTE Band 2

Lowest Channel / 15MHz / 64QAM



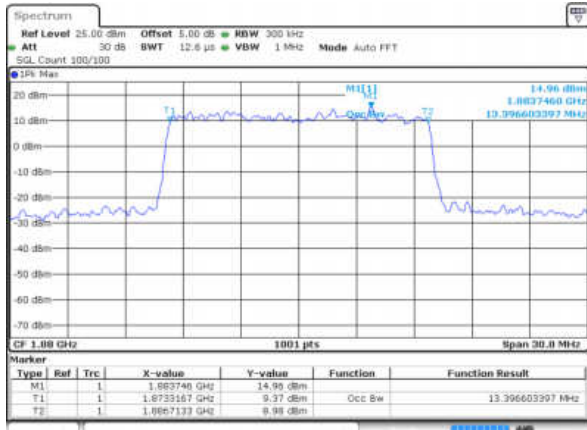
Date: 30 DEC 2017 15:22:55

Lowest Channel / 20MHz / 64QAM



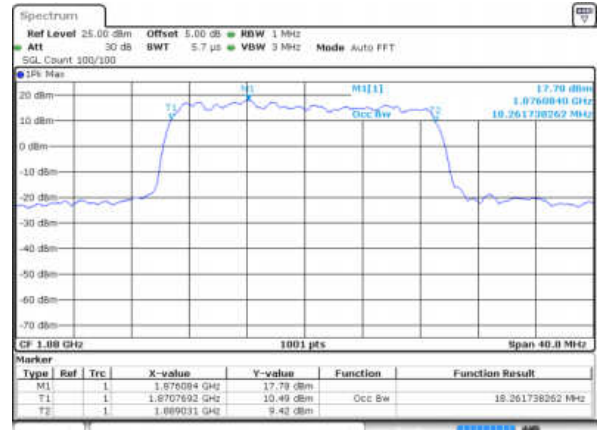
Date: 30 DEC 2017 15:21:58

Middle Channel / 15MHz / 64QAM



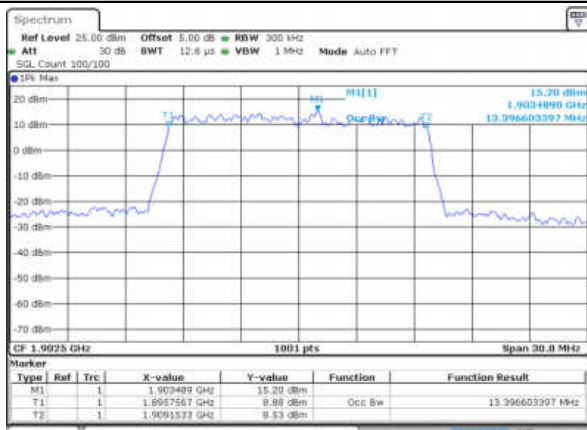
Date: 30 DEC 2017 15:23:15

Middle Channel / 20MHz / 64QAM



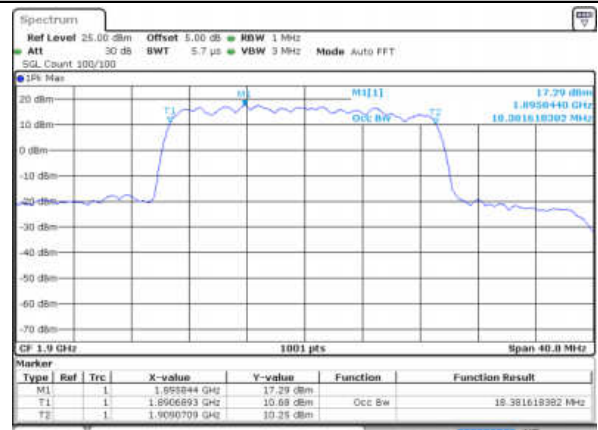
Date: 30 DEC 2017 15:22:15

Highest Channel / 15MHz / 64QAM



Date: 30 DEC 2017 15:23:35

Highest Channel / 20MHz / 64QAM

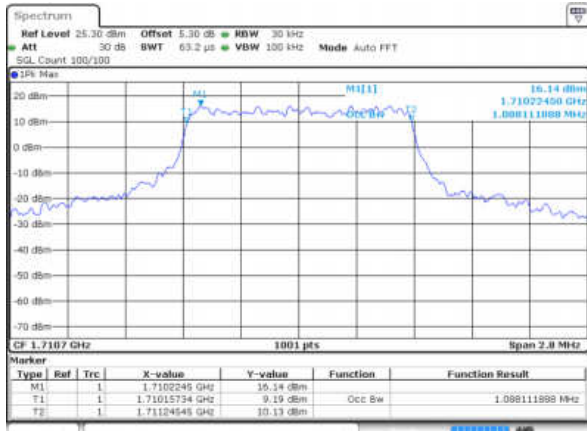


Date: 30 DEC 2017 15:23:35

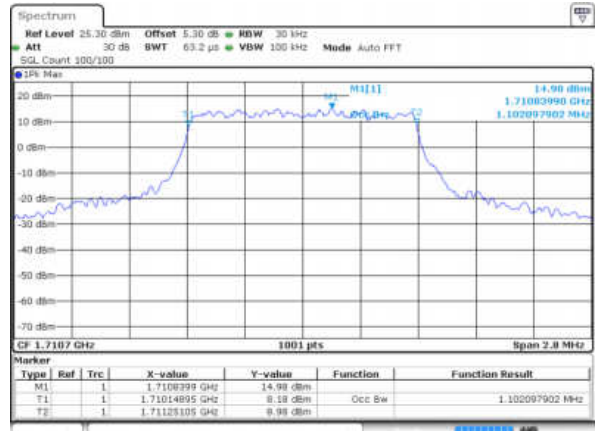


LTE Band 4

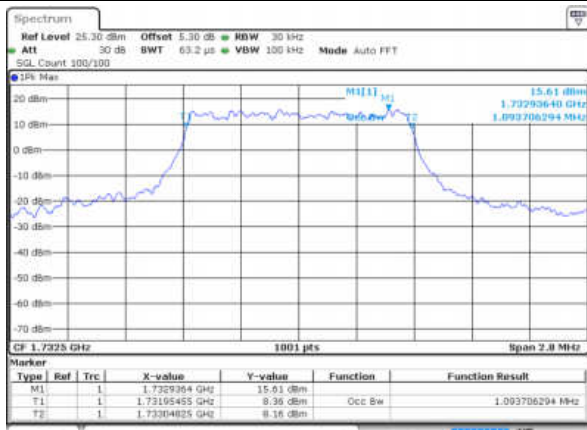
Lowest Channel / 1.4MHz / QPSK



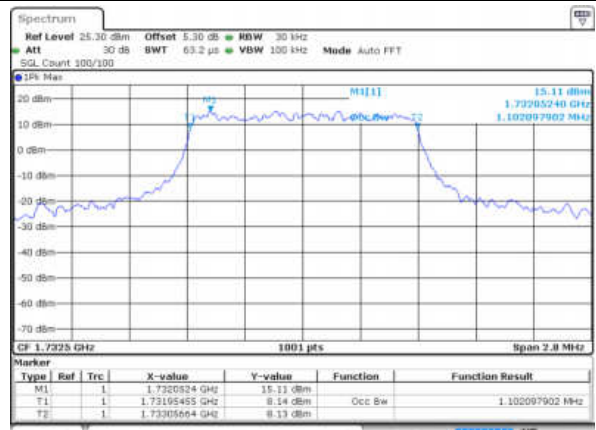
Lowest Channel / 1.4MHz / 16QAM



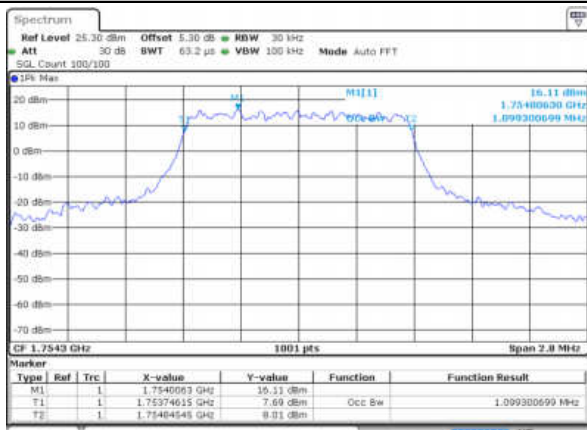
Middle Channel / 1.4MHz / QPSK



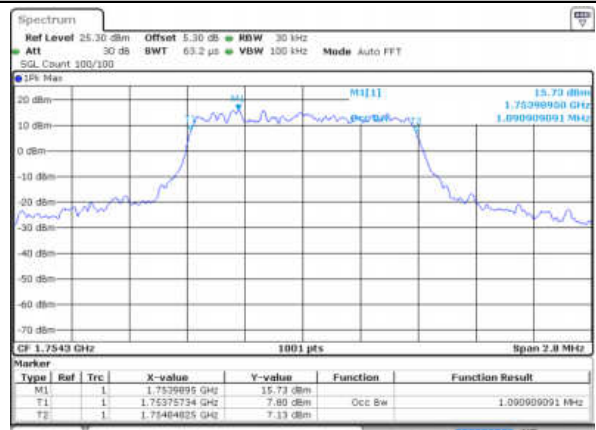
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



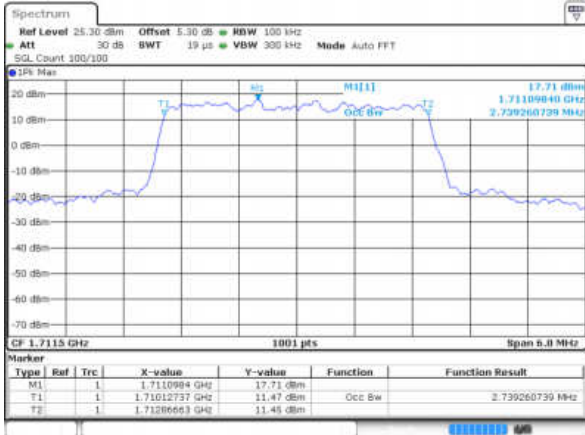
Highest Channel / 1.4MHz / 16QAM





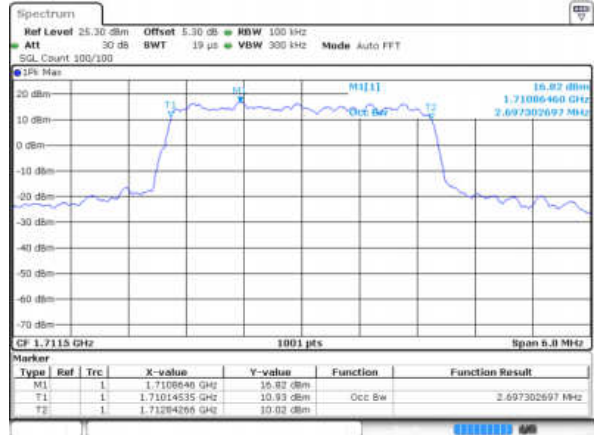
LTE Band 4

Lowest Channel / 3MHz / QPSK



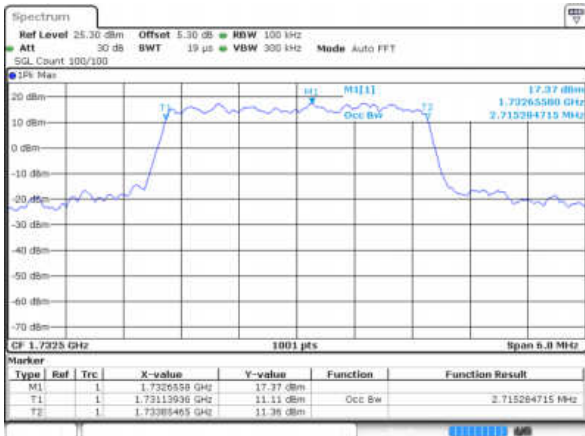
Date: 13 JAN 2018 17:45:42

Lowest Channel / 3MHz / 16QAM



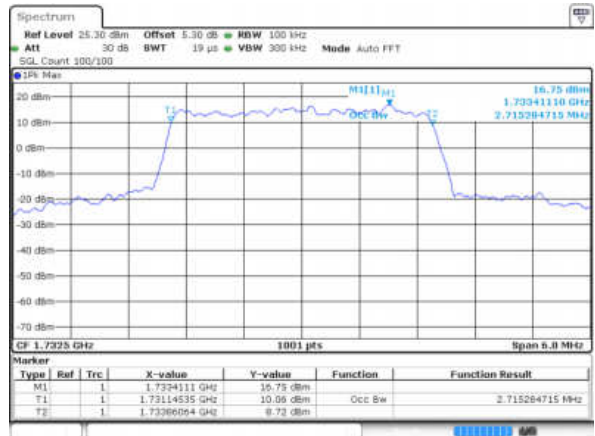
Date: 13 JAN 2018 17:45:52

Middle Channel / 3MHz / QPSK



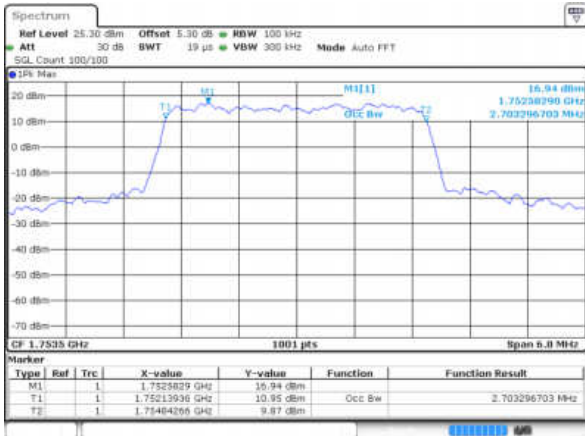
Date: 13 JAN 2018 17:52:41

Middle Channel / 3MHz / 16QAM



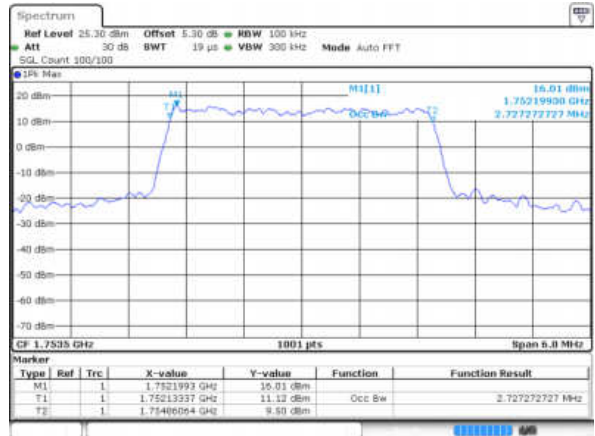
Date: 13 JAN 2018 17:52:51

Highest Channel / 3MHz / QPSK



Date: 13 JAN 2018 17:55:10

Highest Channel / 3MHz / 16QAM

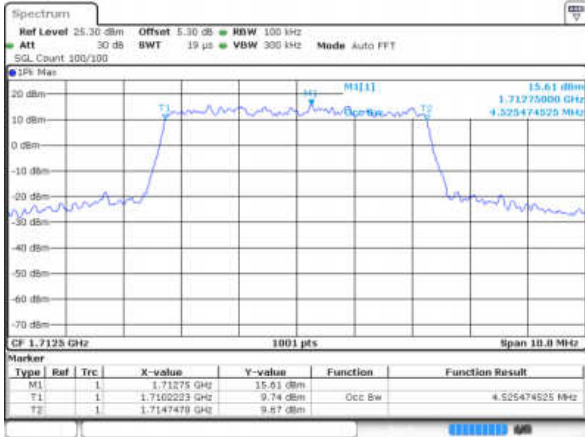


Date: 13 JAN 2018 17:55:20



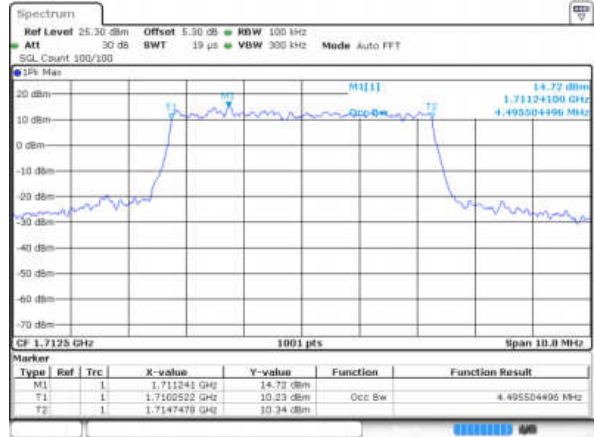
LTE Band 4

Lowest Channel / 5MHz / QPSK



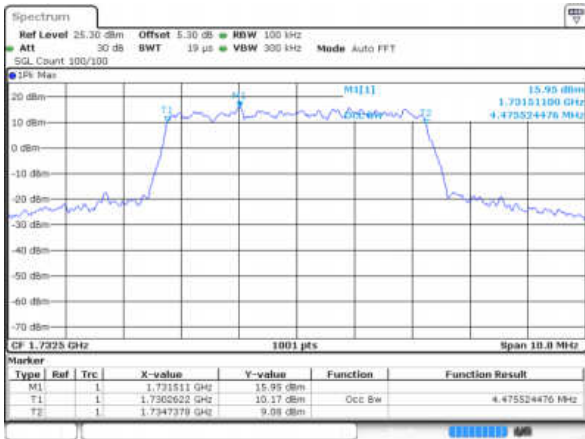
Date: 13 JAN 2018 18:02:09

Lowest Channel / 5MHz / 16QAM



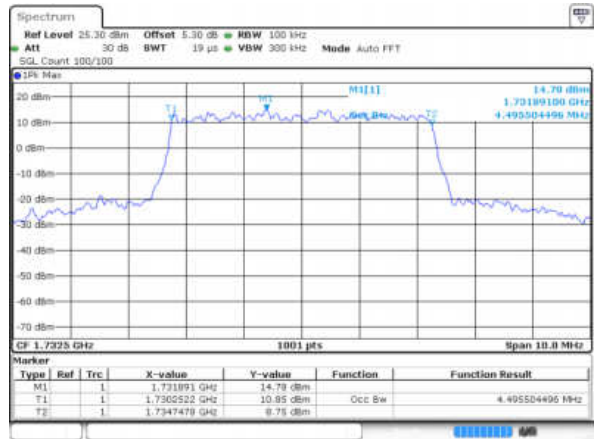
Date: 13 JAN 2018 18:02:19

Middle Channel / 5MHz / QPSK



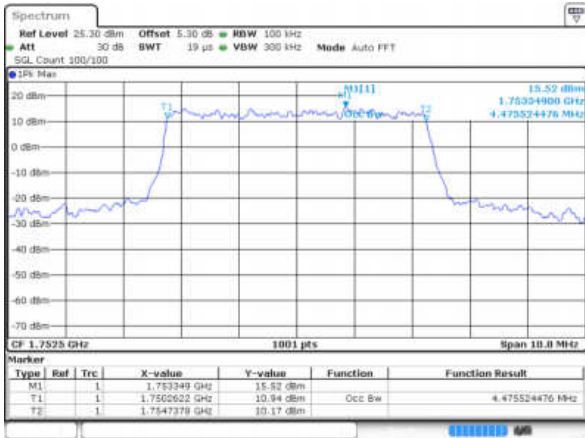
Date: 13 JAN 2018 18:05:08

Middle Channel / 5MHz / 16QAM



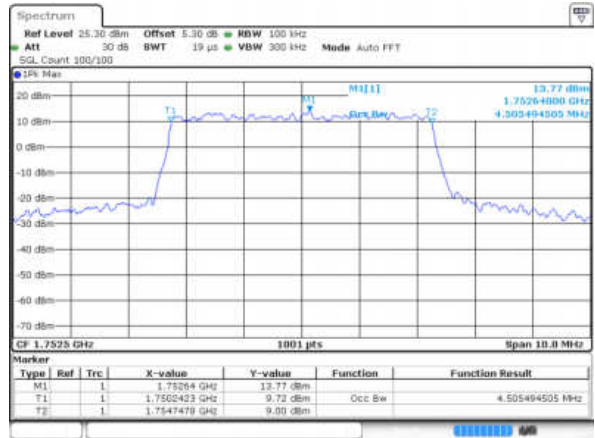
Date: 13 JAN 2018 18:05:16

Highest Channel / 5MHz / QPSK



Date: 13 JAN 2018 18:11:37

Highest Channel / 5MHz / 16QAM

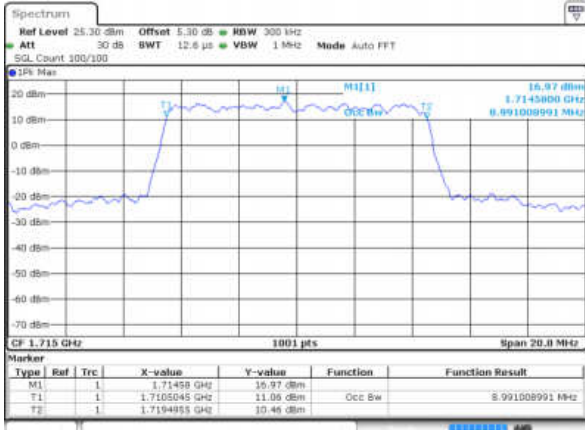


Date: 13 JAN 2018 18:11:47



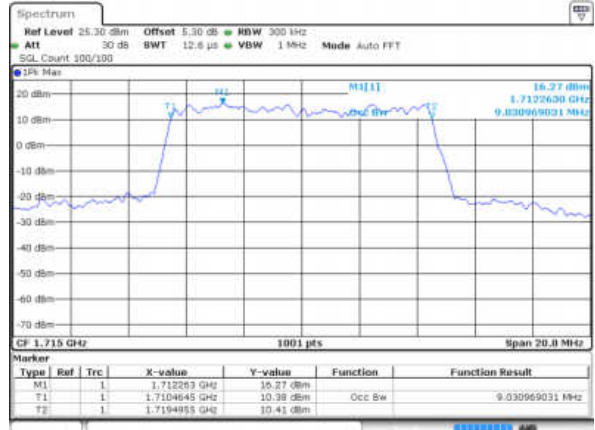
LTE Band 4

Lowest Channel / 10MHz / QPSK



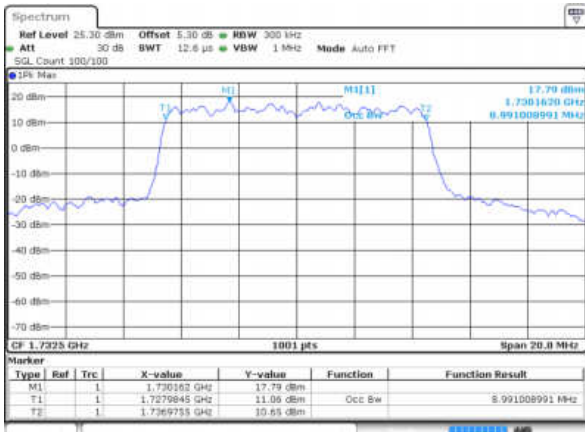
Date: 13 JAN 2018 18:16:36

Lowest Channel / 10MHz / 16QAM



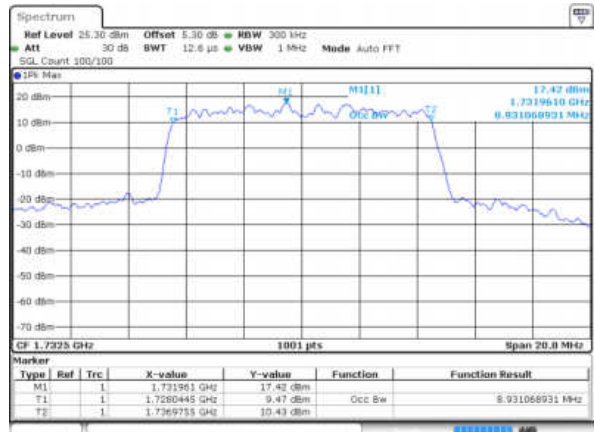
Date: 13 JAN 2018 18:16:46

Middle Channel / 10MHz / QPSK



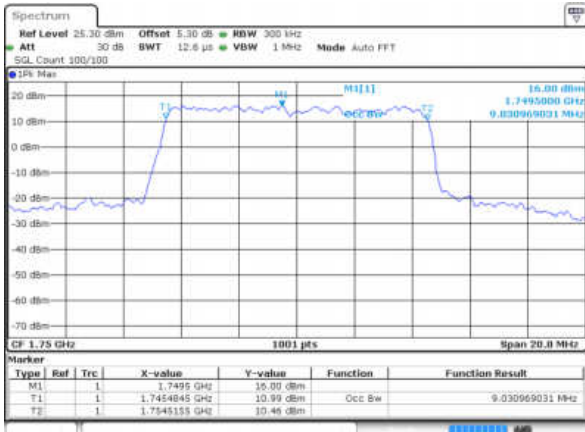
Date: 13 JAN 2018 18:25:35

Middle Channel / 10MHz / 16QAM



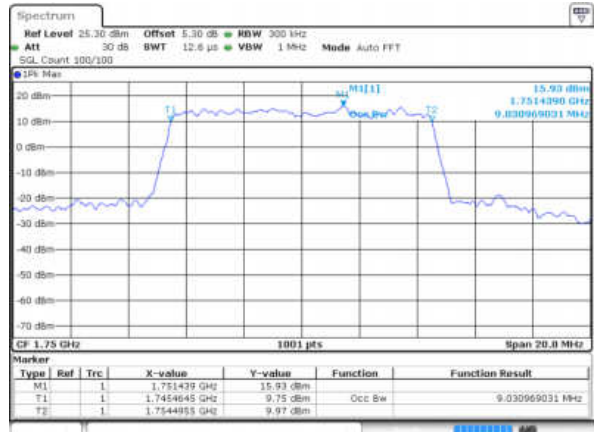
Date: 13 JAN 2018 18:25:45

Highest Channel / 10MHz / QPSK



Date: 13 JAN 2018 18:28:04

Highest Channel / 10MHz / 16QAM

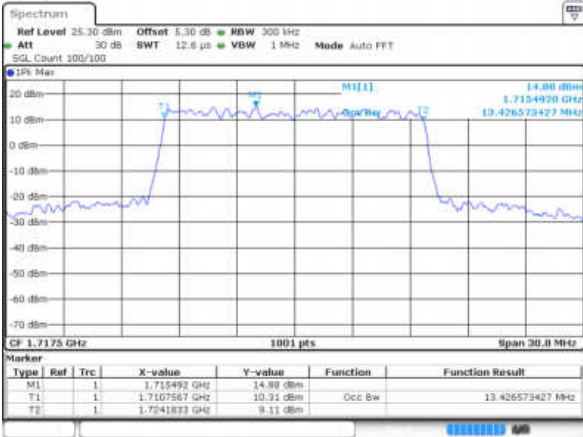


Date: 13 JAN 2018 18:28:14



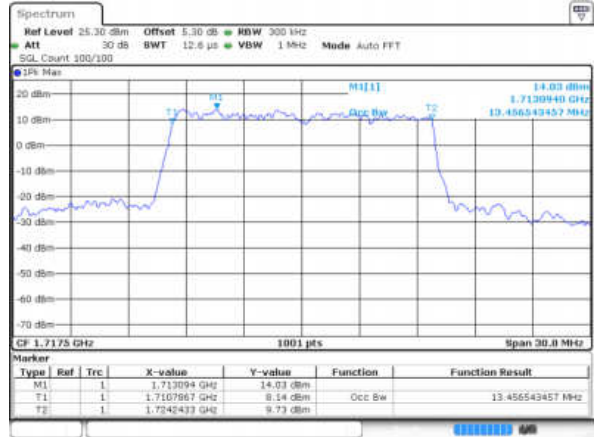
LTE Band 4

Lowest Channel / 15MHz / QPSK



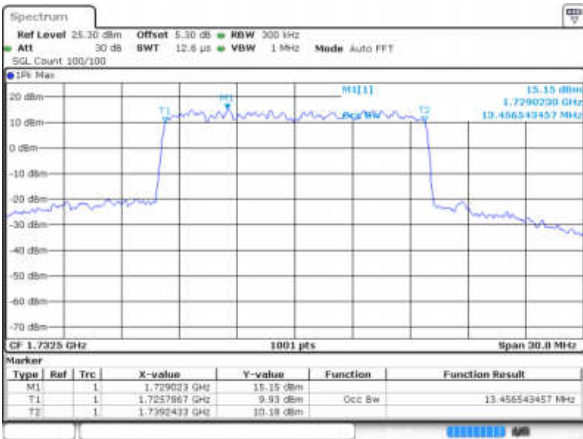
Date: 13 JAN 2018 18:35:03

Lowest Channel / 15MHz / 16QAM



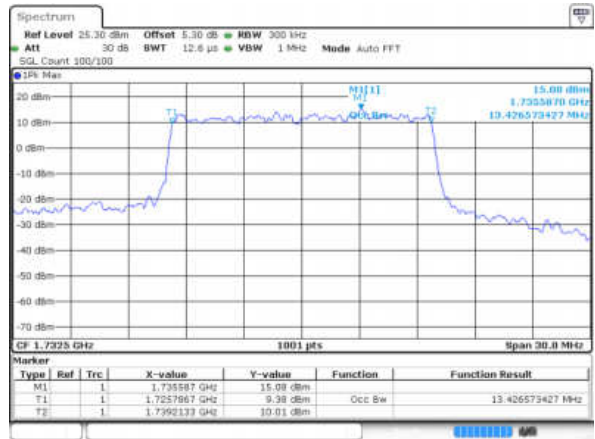
Date: 13 JAN 2018 18:35:15

Middle Channel / 15MHz / QPSK



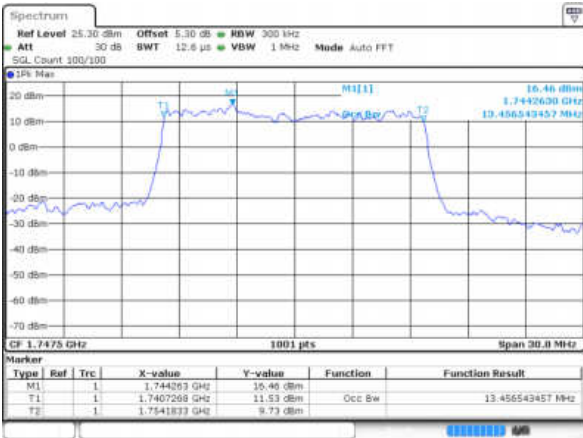
Date: 13 JAN 2018 18:42:02

Middle Channel / 15MHz / 16QAM



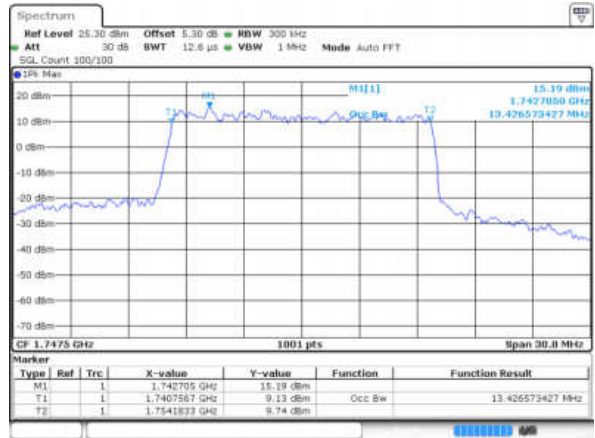
Date: 13 JAN 2018 18:42:12

Highest Channel / 15MHz / QPSK



Date: 13 JAN 2018 18:44:31

Highest Channel / 15MHz / 16QAM

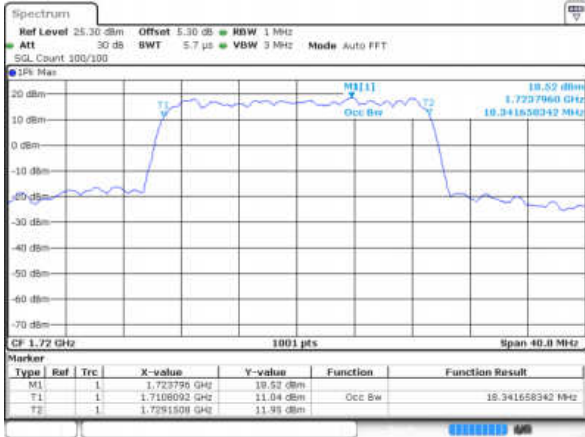


Date: 13 JAN 2018 18:44:41



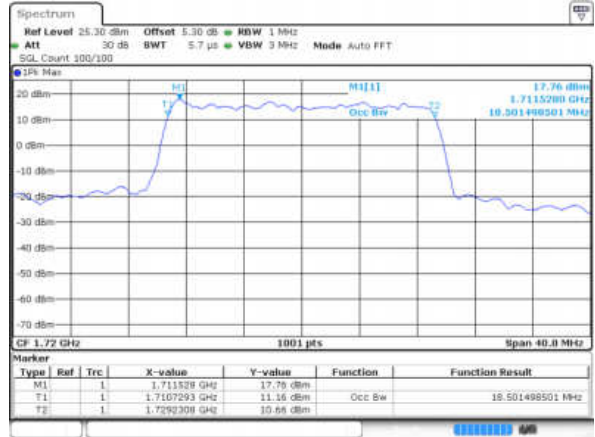
LTE Band 4

Lowest Channel / 20MHz / QPSK



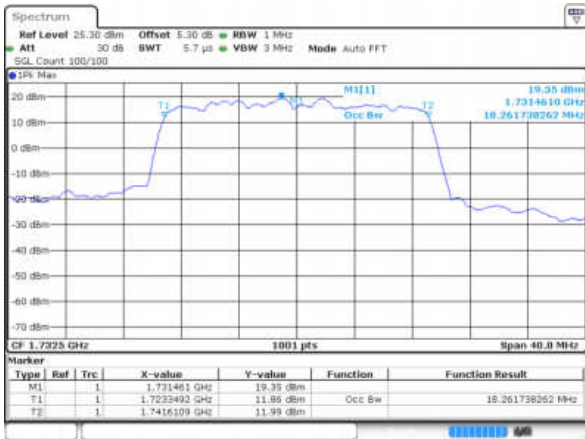
Date: 13 JAN 2018 18:01:30

Lowest Channel / 20MHz / 16QAM



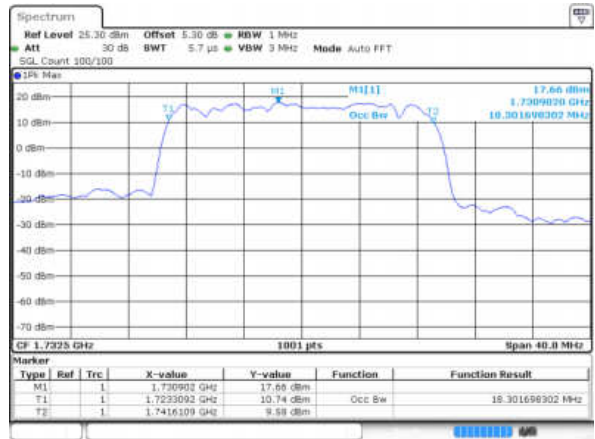
Date: 13 JAN 2018 18:01:40

Middle Channel / 20MHz / QPSK



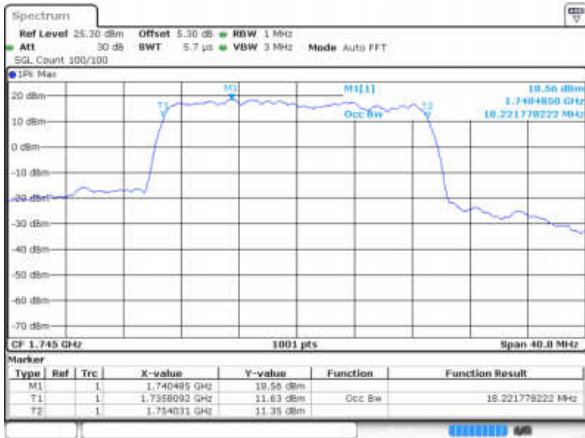
Date: 13 JAN 2018 18:08:29

Middle Channel / 20MHz / 16QAM



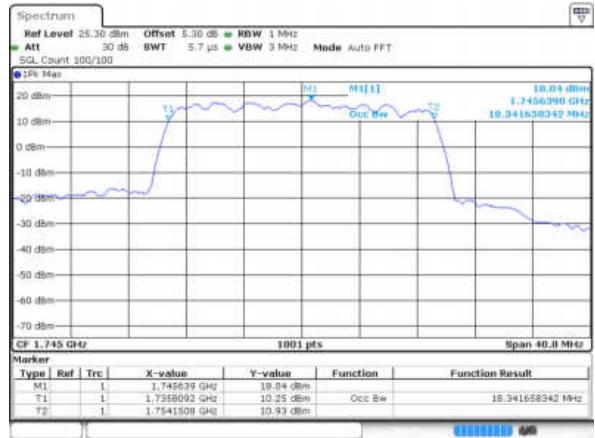
Date: 13 JAN 2018 18:08:36

Highest Channel / 20MHz / QPSK



Date: 13 JAN 2018 19:00:58

Highest Channel / 20MHz / 16QAM

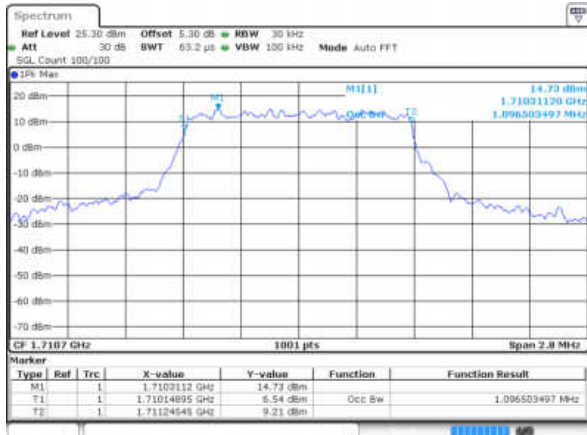


Date: 13 JAN 2018 19:01:06



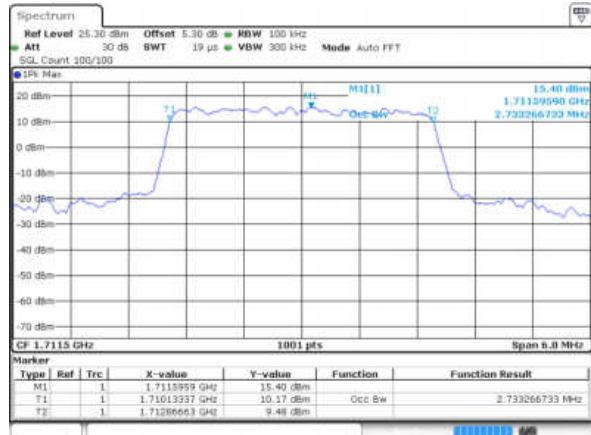
LTE Band 4

Lowest Channel / 1.4MHz / 64QAM



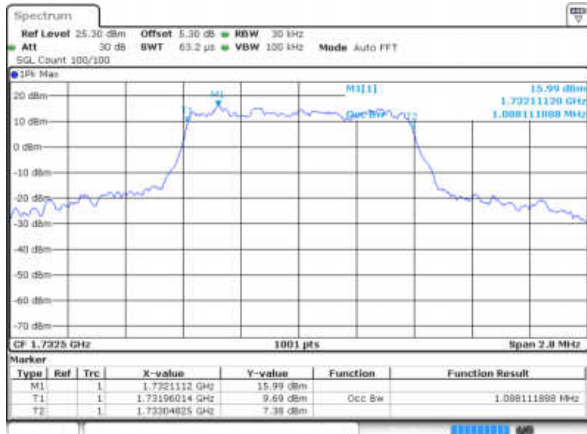
Date: 13 JAN 2018 19:11:26

Lowest Channel / 3MHz / 64QAM



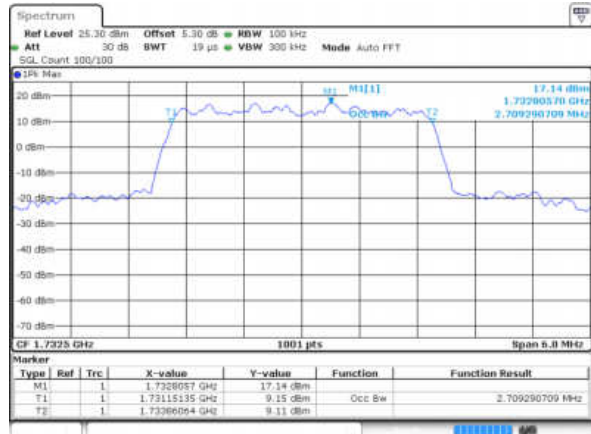
Date: 13 JAN 2018 19:12:26

Middle Channel / 1.4MHz / 64QAM



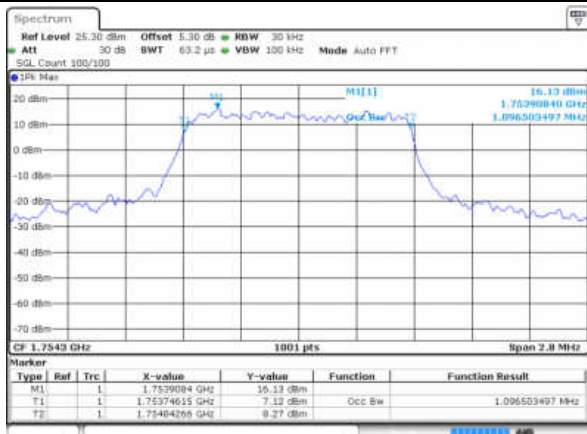
Date: 13 JAN 2018 19:11:48

Middle Channel / 3MHz / 64QAM



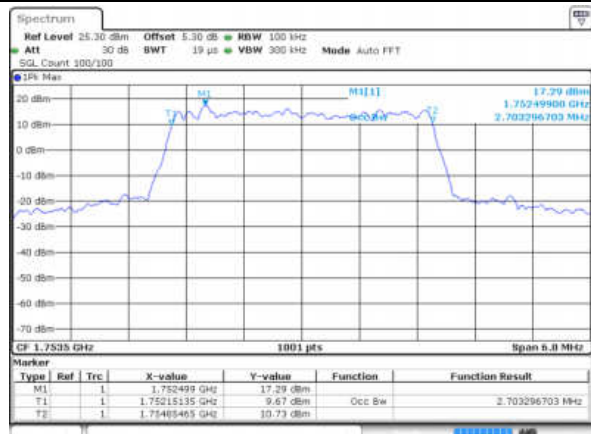
Date: 13 JAN 2018 19:12:48

Highest Channel / 1.4MHz / 64QAM



Date: 13 JAN 2018 19:12:08

Highest Channel / 3MHz / 64QAM



Date: 13 JAN 2018 19:13:08