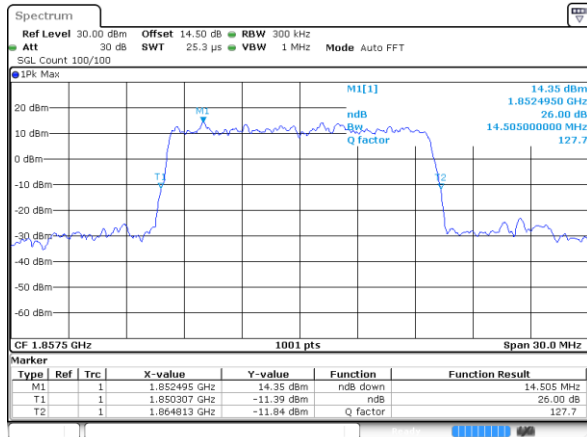




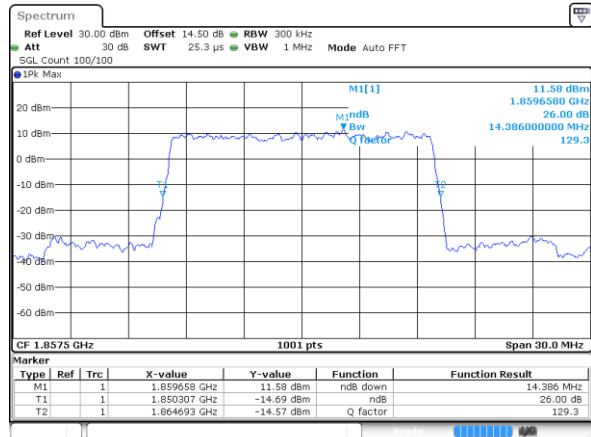
LTE Band 2

Lowest Channel / 15MHz / QPSK



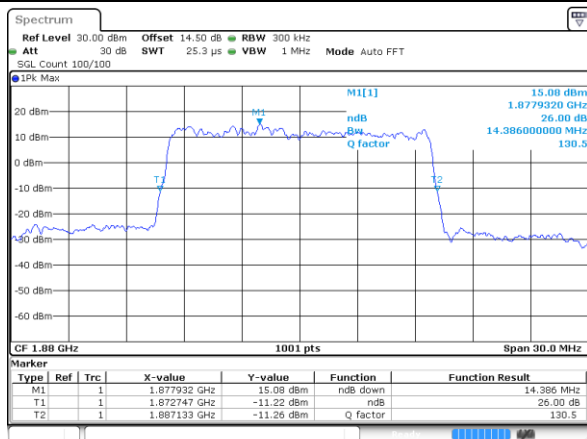
Date: 1 MAY 2019 14:18:39

Lowest Channel / 15MHz / 16QAM



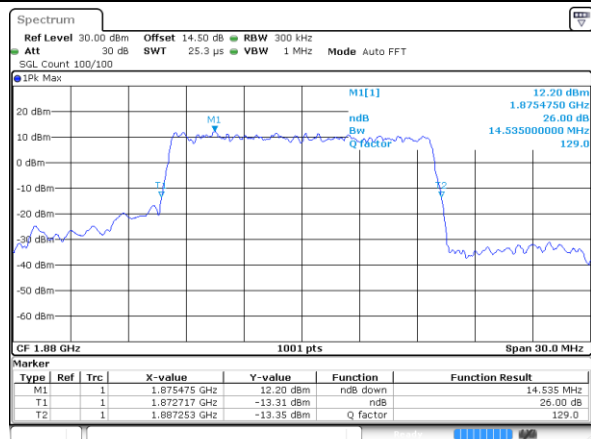
Date: 1 MAY 2019 14:18:49

Middle Channel / 15MHz / QPSK



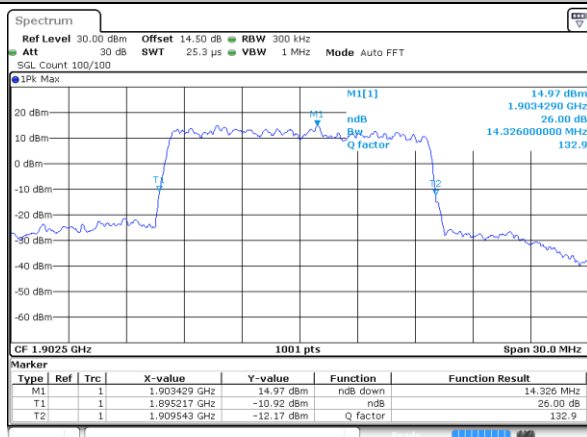
Date: 1 MAY 2019 14:25:41

Middle Channel / 15MHz / 16QAM



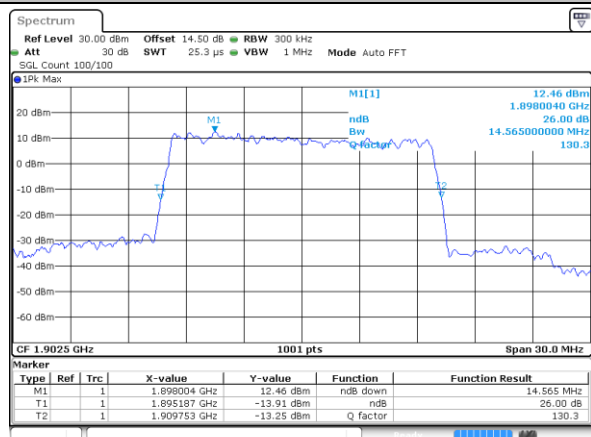
Date: 1 MAY 2019 14:25:51

Highest Channel / 15MHz / QPSK



Date: 1 MAY 2019 14:28:12

Highest Channel / 15MHz / 16QAM

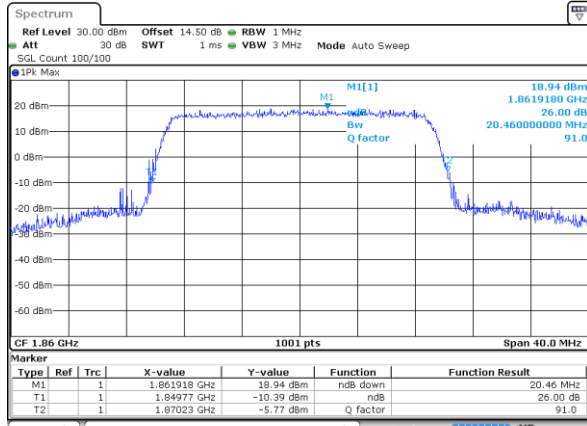


Date: 1 MAY 2019 14:28:21



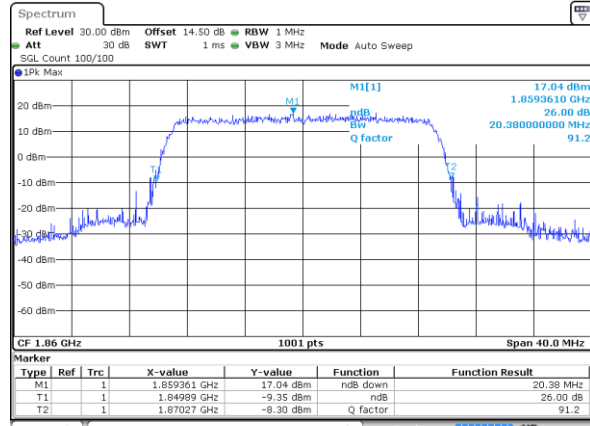
LTE Band 2

Lowest Channel / 20MHz / QPSK



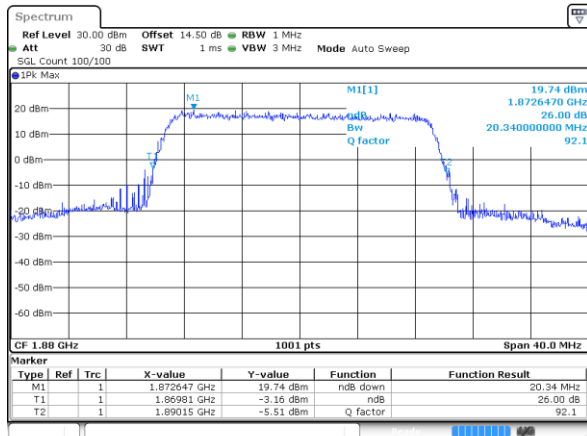
Date: 1 MAY 2019 14:36:31

Lowest Channel / 20MHz / 16QAM



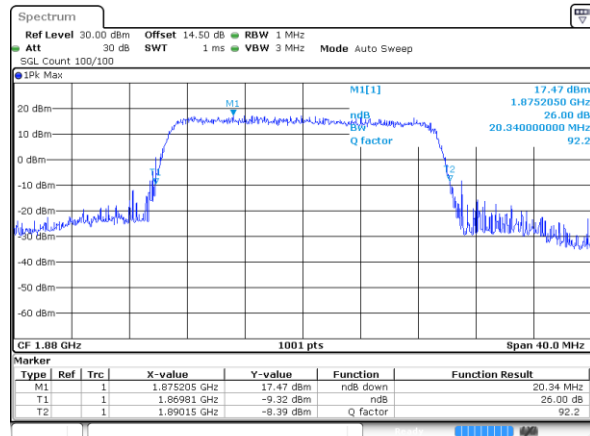
Date: 1 MAY 2019 14:36:41

Middle Channel / 20MHz / QPSK



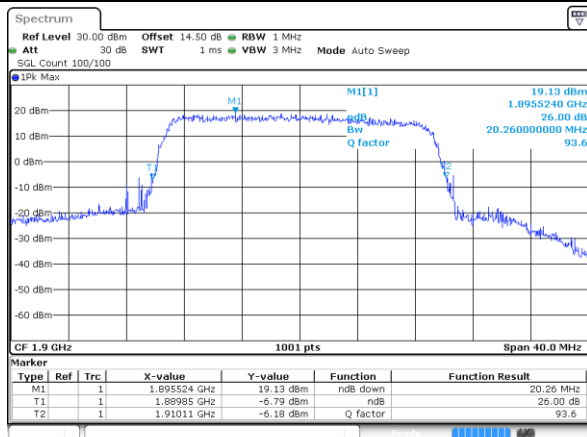
Date: 1 MAY 2019 14:43:34

Middle Channel / 20MHz / 16QAM



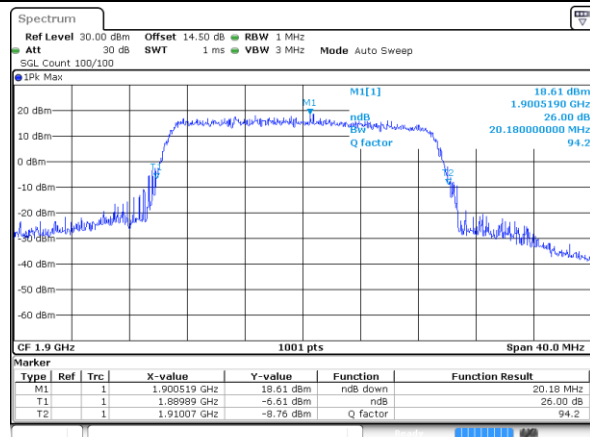
Date: 1 MAY 2019 14:43:44

Highest Channel / 20MHz / QPSK



Date: 1 MAY 2019 14:46:04

Highest Channel / 20MHz / 16QAM

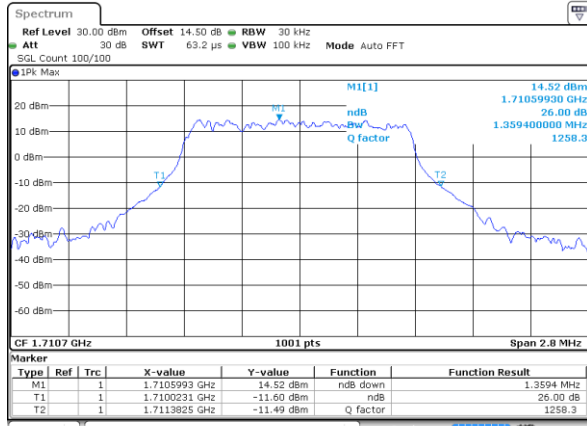


Date: 1 MAY 2019 14:46:14



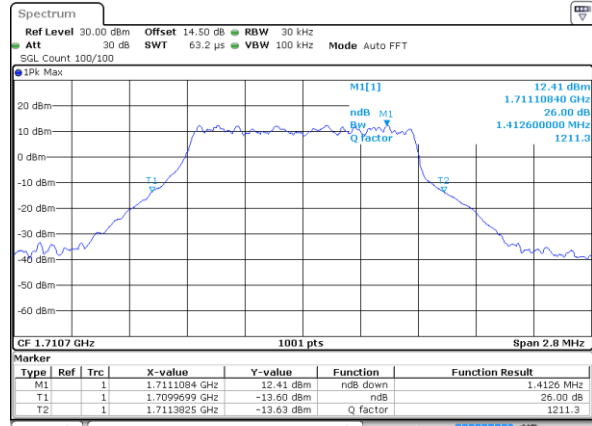
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



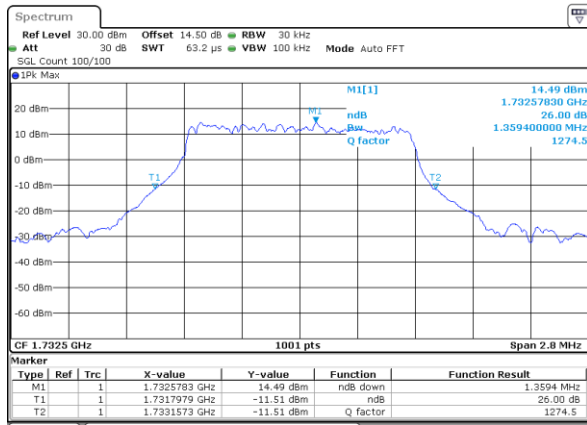
Date: 1 MAY 2019 16:44:31

Lowest Channel / 1.4MHz / 16QAM



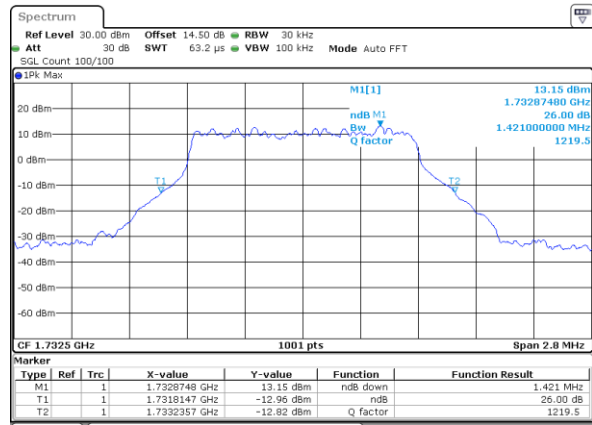
Date: 1 MAY 2019 16:44:41

Middle Channel / 1.4MHz / QPSK



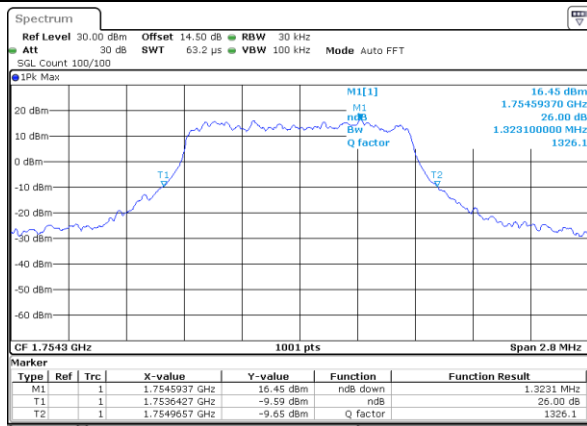
Date: 1 MAY 2019 16:51:33

Middle Channel / 1.4MHz / 16QAM



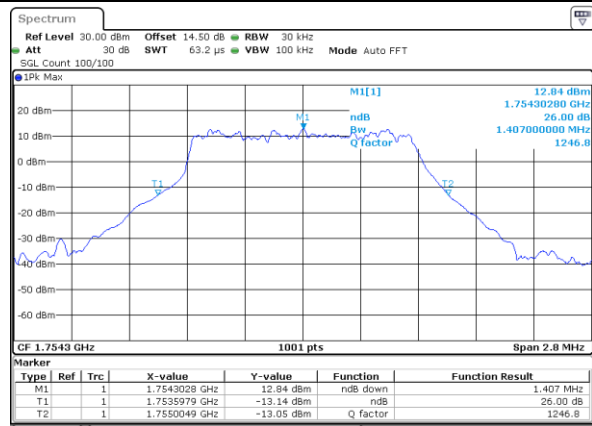
Date: 1 MAY 2019 16:51:43

Highest Channel / 1.4MHz / QPSK



Date: 1 MAY 2019 16:54:01

Highest Channel / 1.4MHz / 16QAM

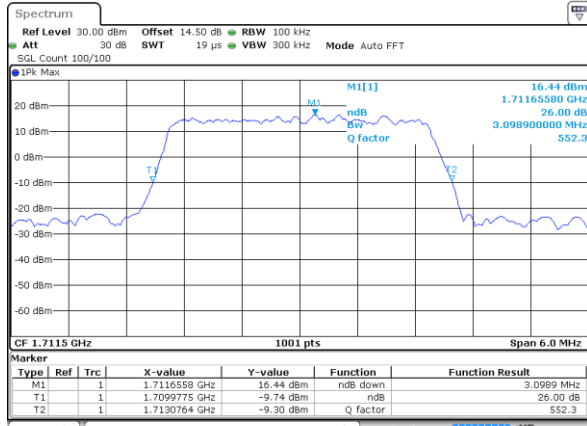


Date: 1 MAY 2019 16:54:11



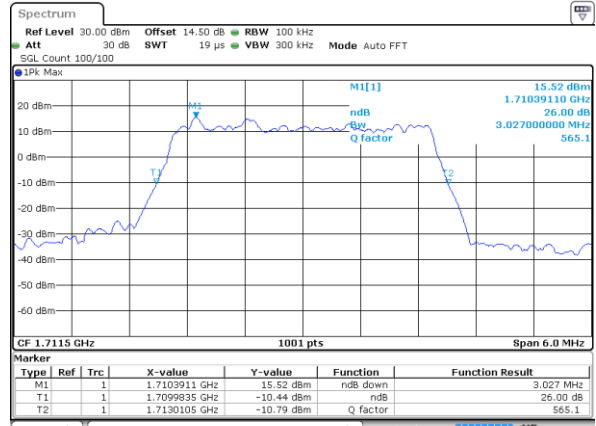
LTE Band 4

Lowest Channel / 3MHz / QPSK



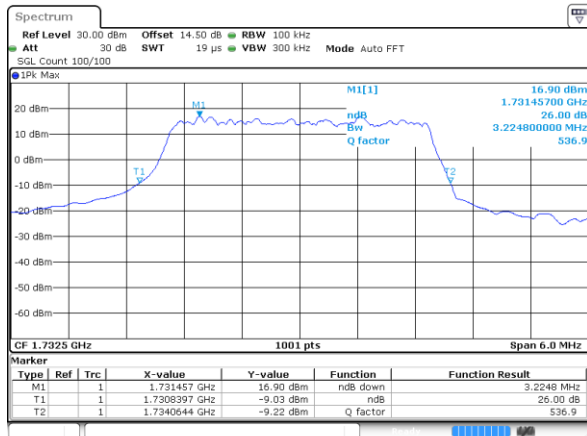
Date: 1 MAY 2019 17:02:26

Lowest Channel / 3MHz / 16QAM



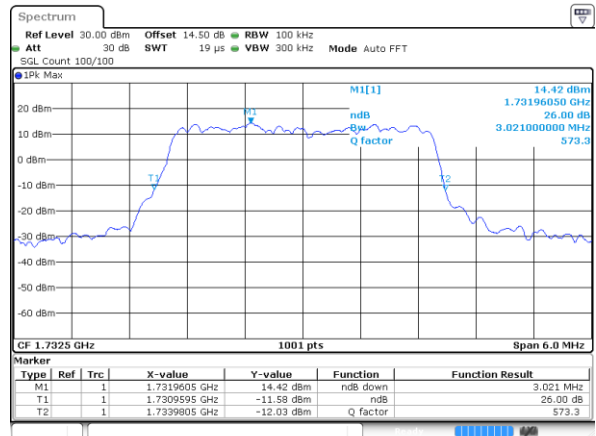
Date: 1 MAY 2019 17:02:35

Middle Channel / 3MHz / QPSK



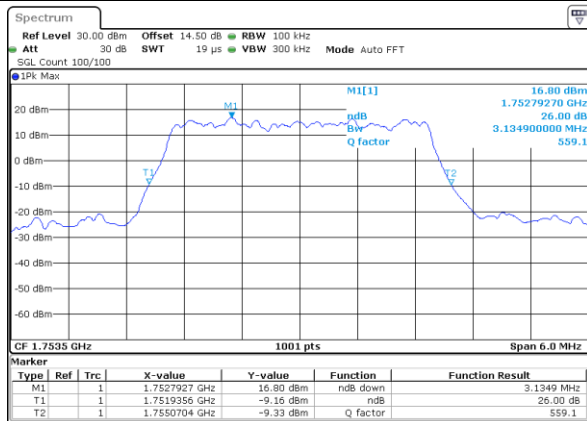
Date: 1 MAY 2019 17:09:27

Middle Channel / 3MHz / 16QAM



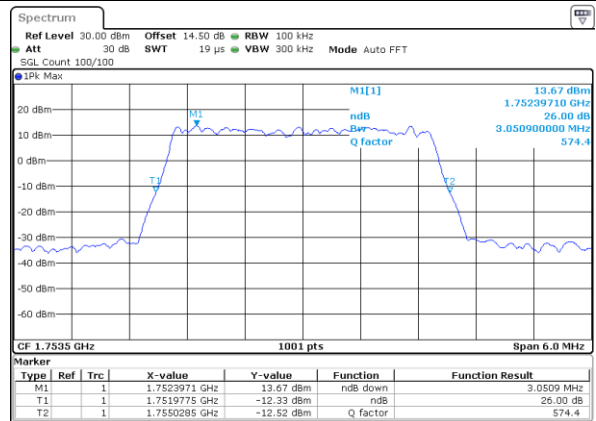
Date: 1 MAY 2019 17:09:37

Highest Channel / 3MHz / QPSK



Date: 1 MAY 2019 17:11:55

Highest Channel / 3MHz / 16QAM

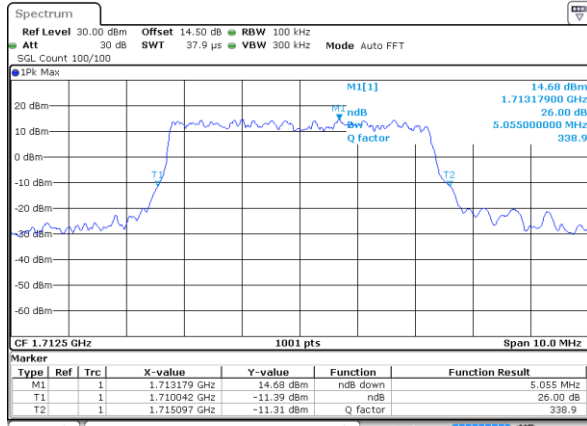


Date: 1 MAY 2019 17:12:05



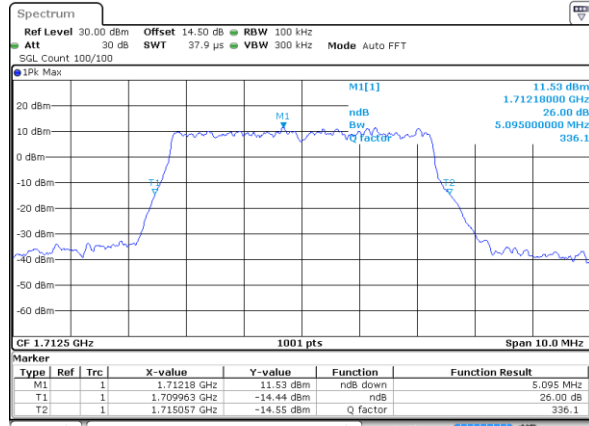
LTE Band 4

Lowest Channel / 5MHz / QPSK



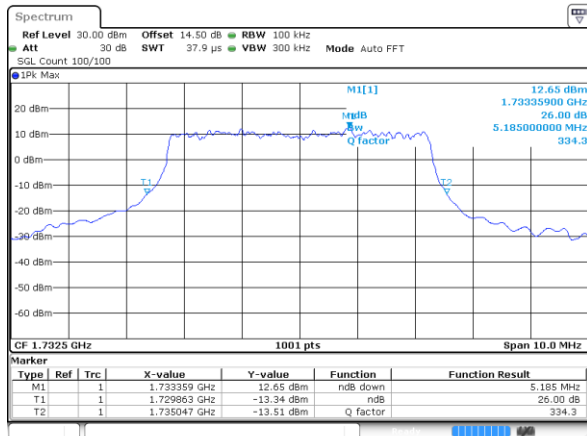
Date: 1 MAY 2019 17:22:16

Lowest Channel / 5MHz / 16QAM



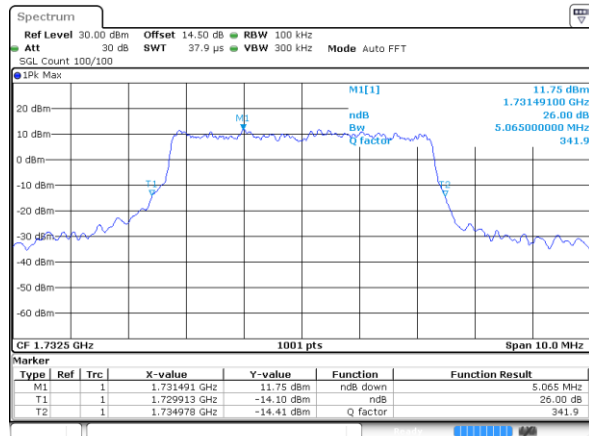
Date: 1 MAY 2019 17:22:26

Middle Channel / 5MHz / QPSK



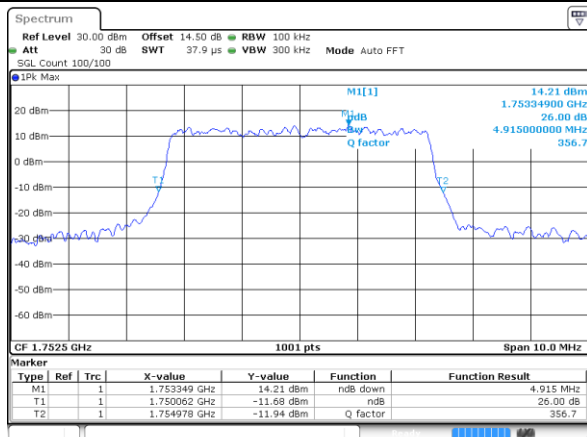
Date: 1 MAY 2019 17:29:19

Middle Channel / 5MHz / 16QAM



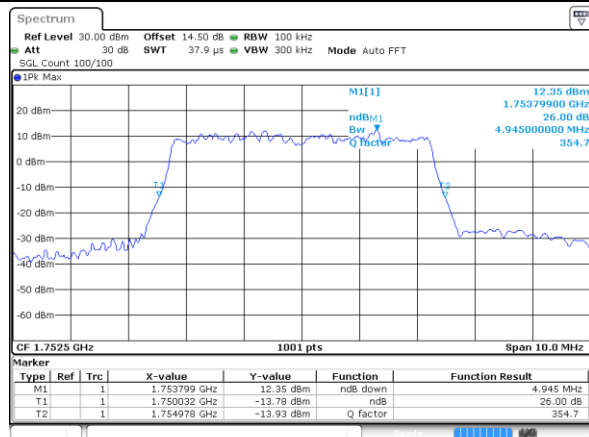
Date: 1 MAY 2019 17:29:29

Highest Channel / 5MHz / QPSK



Date: 1 MAY 2019 17:31:47

Highest Channel / 5MHz / 16QAM

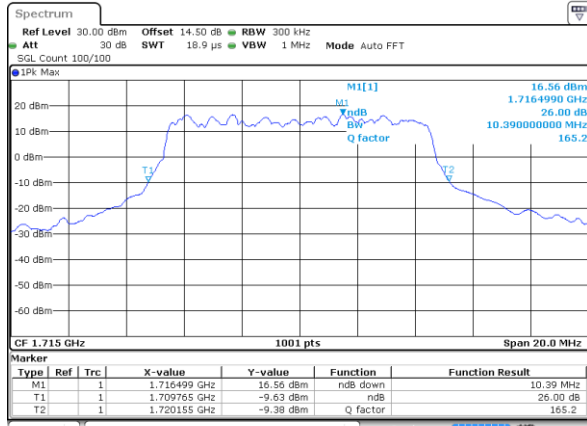


Date: 1 MAY 2019 17:31:57



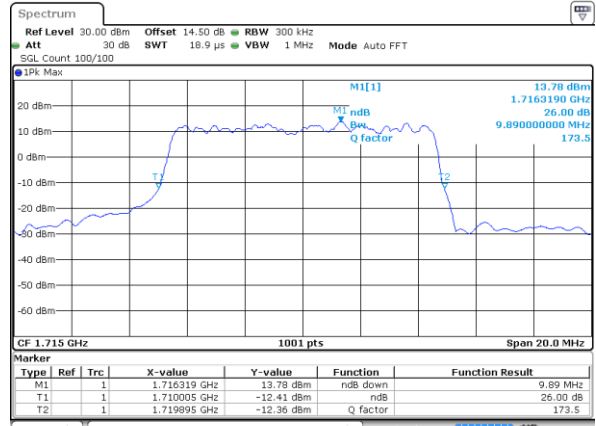
LTE Band 4

Lowest Channel / 10MHz / QPSK



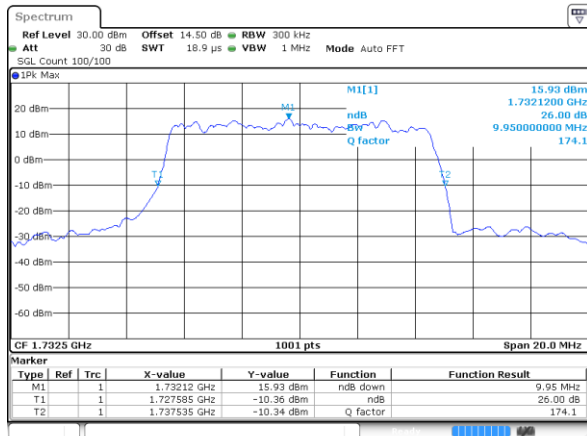
Date: 1 MAY 2019 17:41:22

Lowest Channel / 10MHz / 16QAM



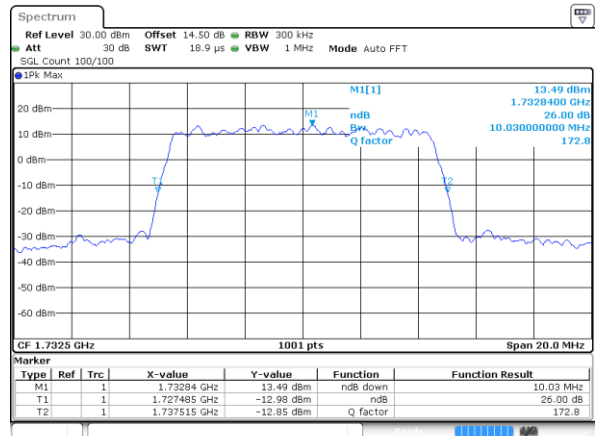
Date: 1 MAY 2019 17:41:32

Middle Channel / 10MHz / QPSK



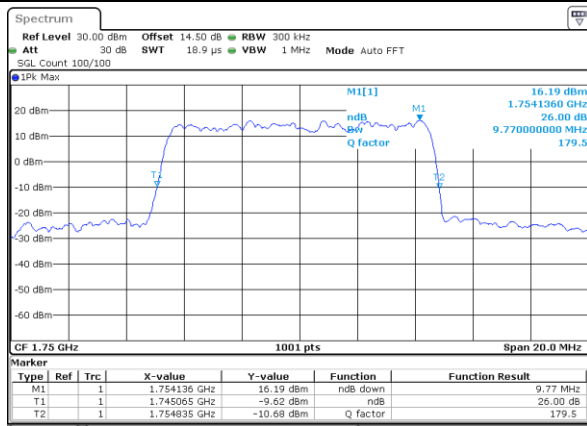
Date: 1 MAY 2019 17:48:24

Middle Channel / 10MHz / 16QAM



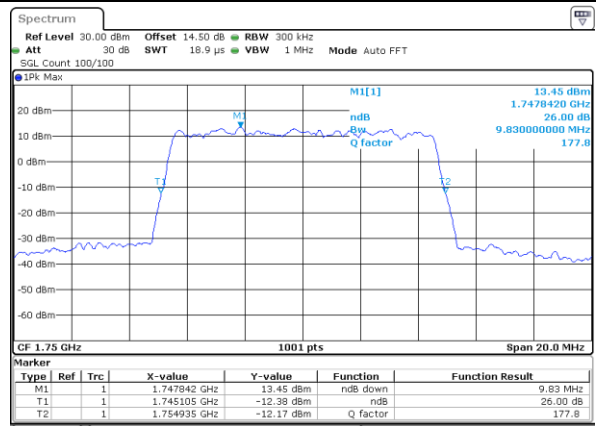
Date: 1 MAY 2019 17:48:34

Highest Channel / 10MHz / QPSK



Date: 1 MAY 2019 17:50:53

Highest Channel / 10MHz / 16QAM

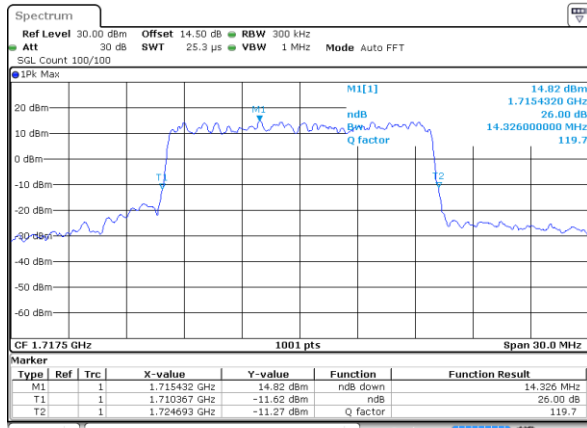


Date: 1 MAY 2019 17:51:03



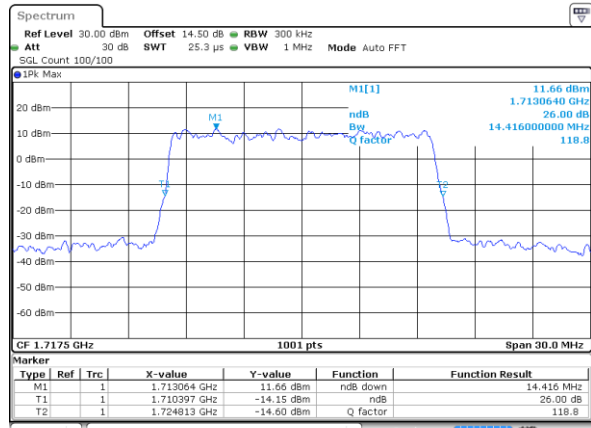
LTE Band 4

Lowest Channel / 15MHz / QPSK



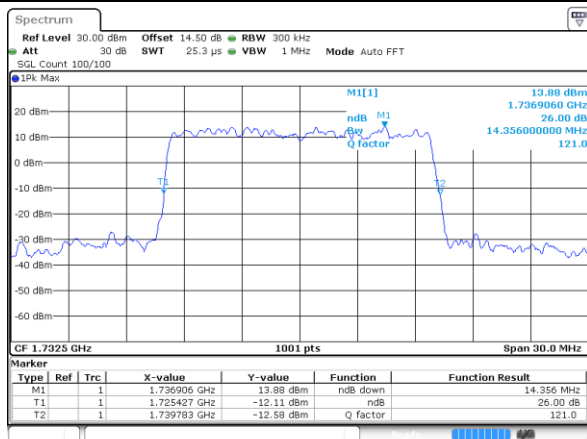
Date: 1 MAY 2019 18:03:24

Lowest Channel / 15MHz / 16QAM



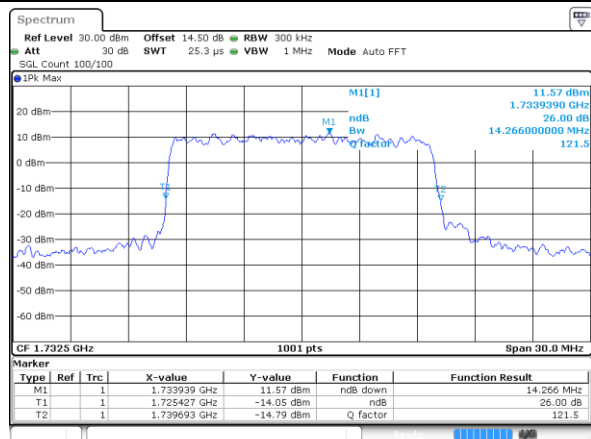
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Middle Channel / 15MHz / QPSK



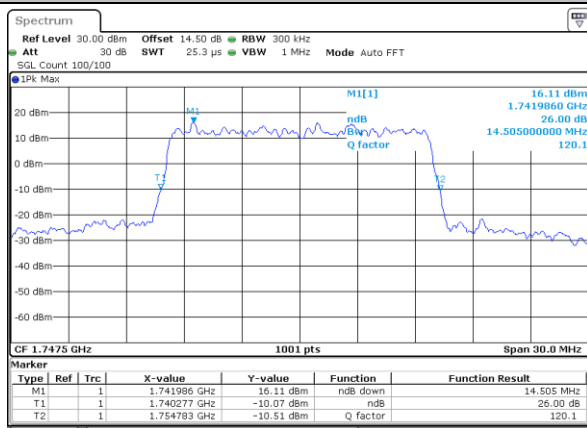
Date: 1 MAY 2019 18:10:27

Middle Channel / 15MHz / 16QAM



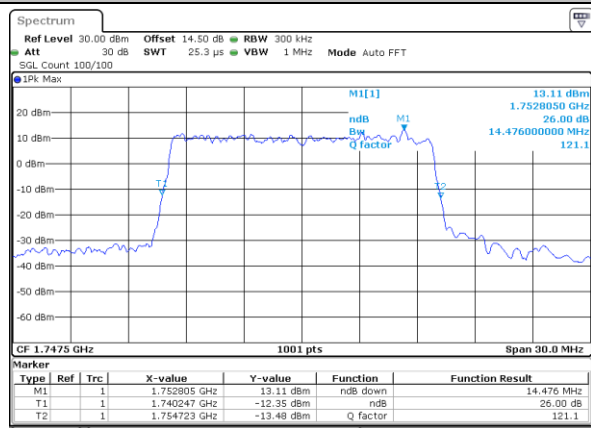
Date: 1 MAY 2019 18:10:37

Highest Channel / 15MHz / QPSK



Date: 1 MAY 2019 18:12:55

Highest Channel / 15MHz / 16QAM

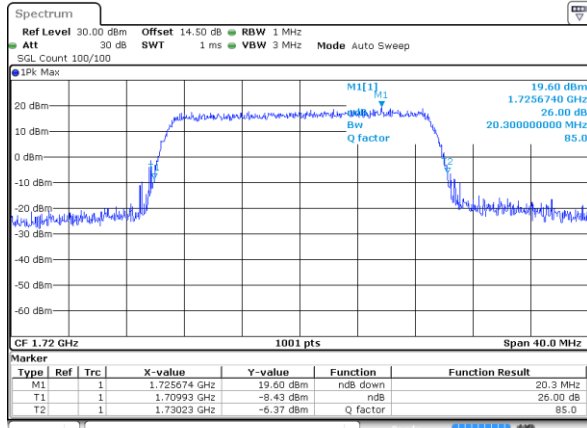


Date: 1 MAY 2019 18:13:05

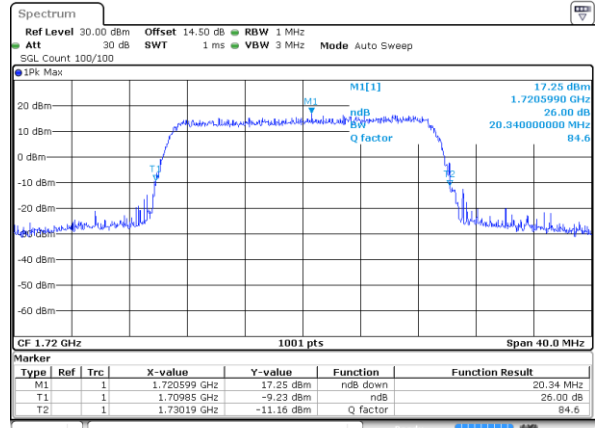


LTE Band 4

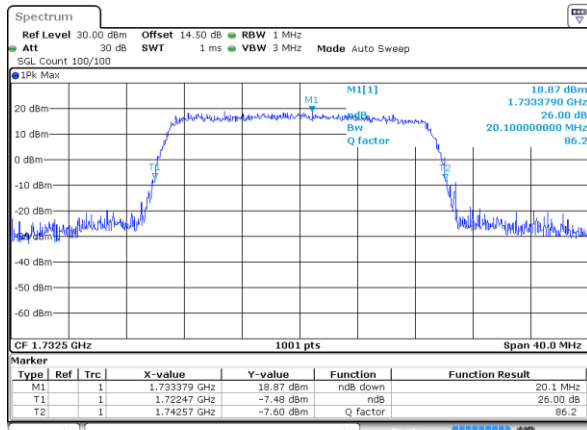
Lowest Channel / 20MHz / QPSK



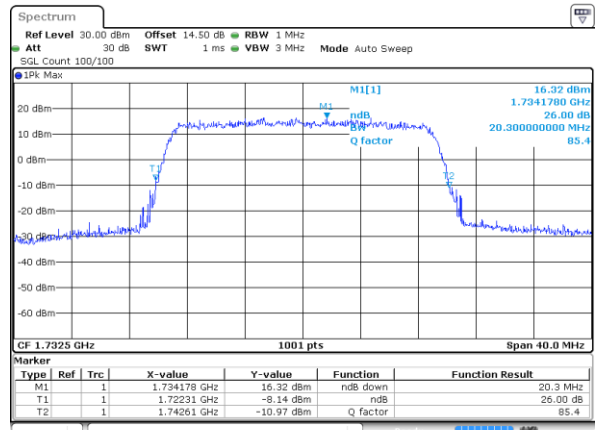
Lowest Channel / 20MHz / 16QAM



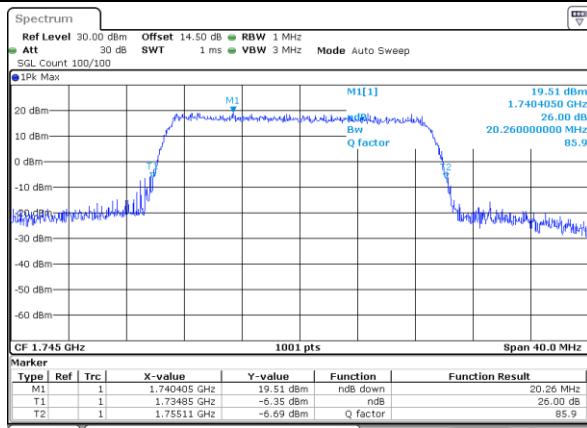
Middle Channel / 20MHz / QPSK



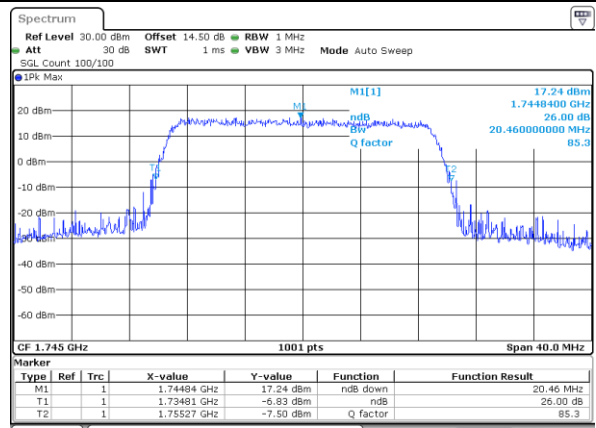
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



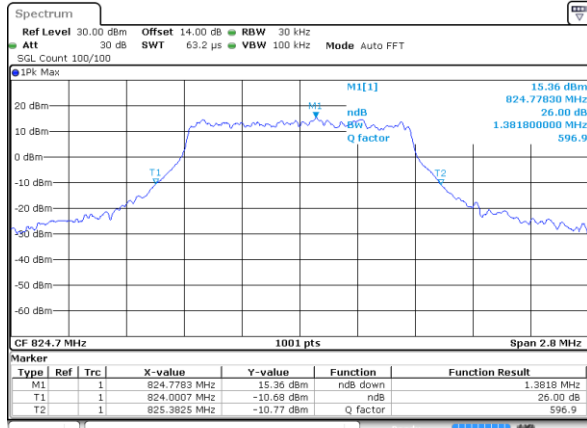
Highest Channel / 20MHz / 16QAM





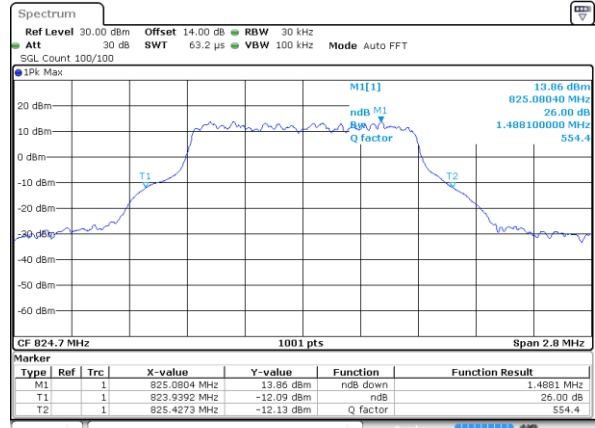
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



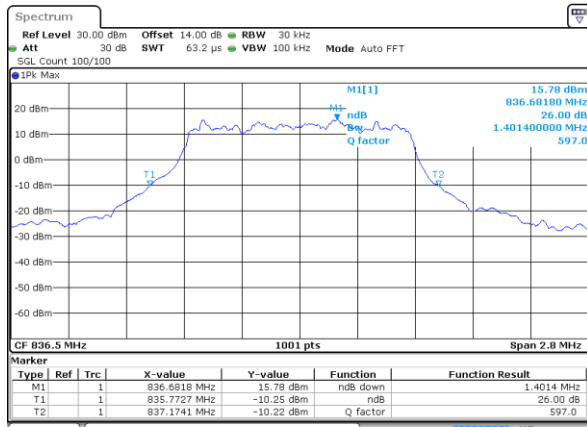
Date: 5 MAY 2019 11:23:58

Lowest Channel / 1.4MHz / 16QAM



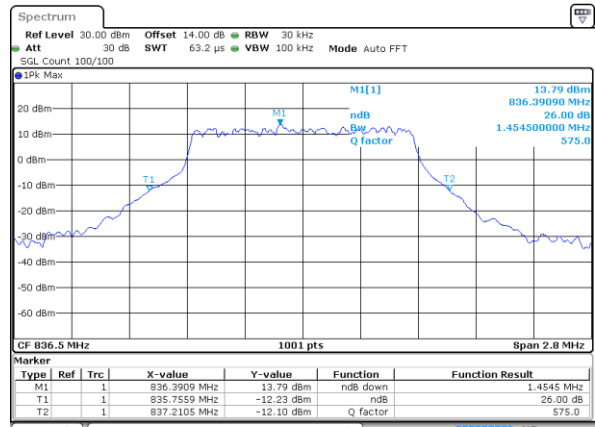
Date: 5 MAY 2019 11:23:48

Middle Channel / 1.4MHz / QPSK



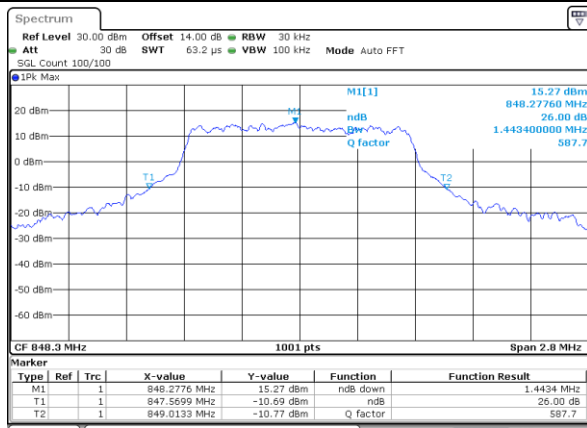
Date: 5 MAY 2019 11:32:50

Middle Channel / 1.4MHz / 16QAM



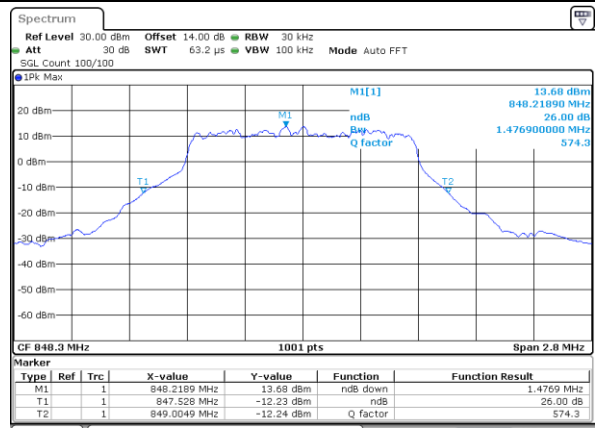
Date: 5 MAY 2019 11:33:00

Highest Channel / 1.4MHz / QPSK



Date: 5 MAY 2019 11:35:18

Highest Channel / 1.4MHz / 16QAM

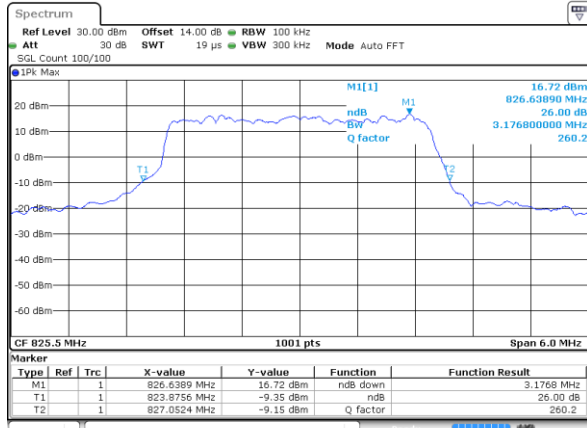


Date: 5 MAY 2019 11:35:28

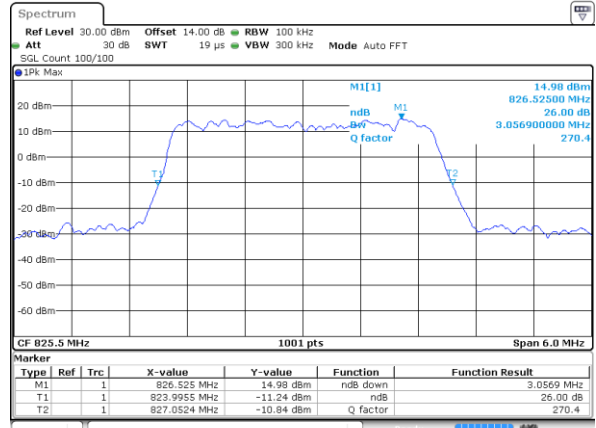


LTE Band 5

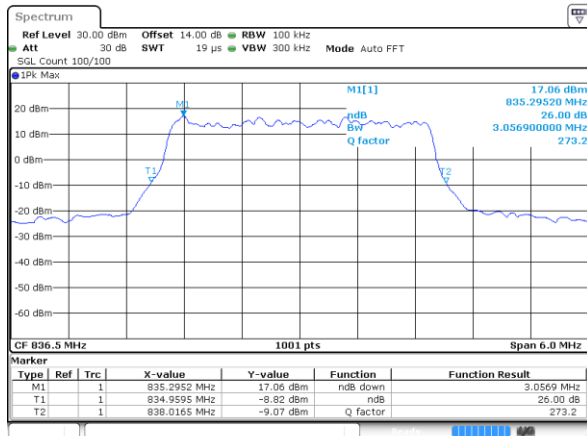
Lowest Channel / 3MHz / QPSK



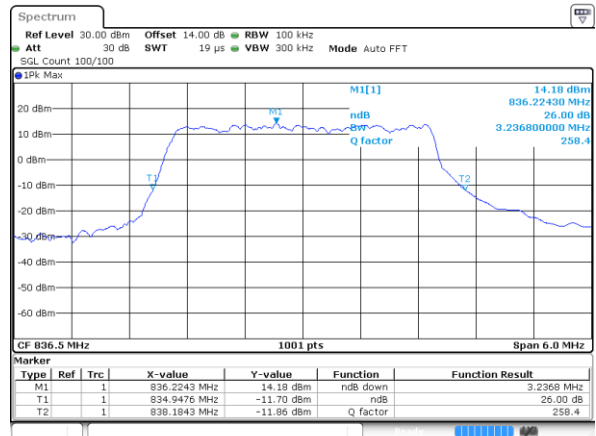
Lowest Channel / 3MHz / 16QAM



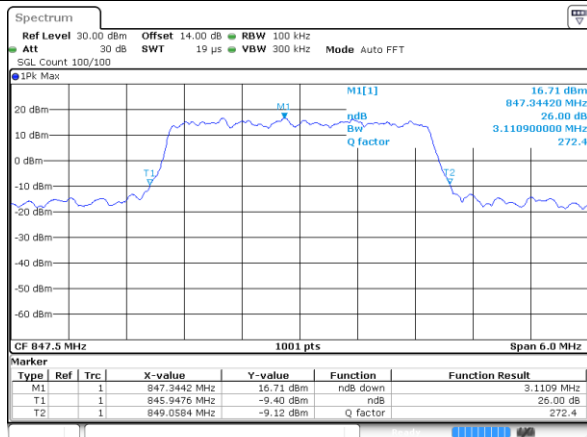
Middle Channel / 3MHz / QPSK



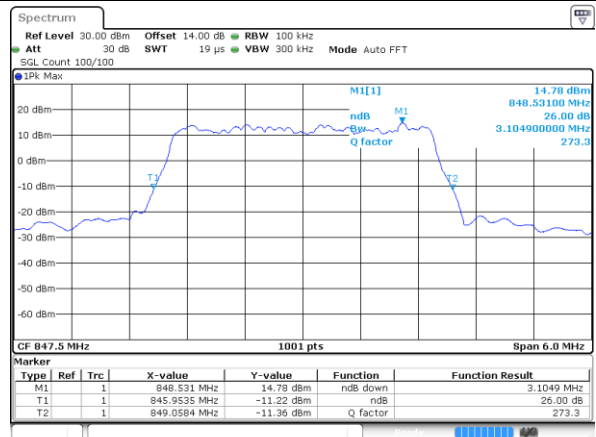
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



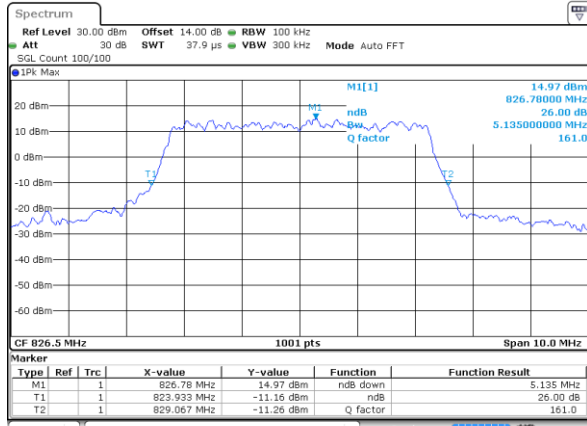
Highest Channel / 3MHz / 16QAM





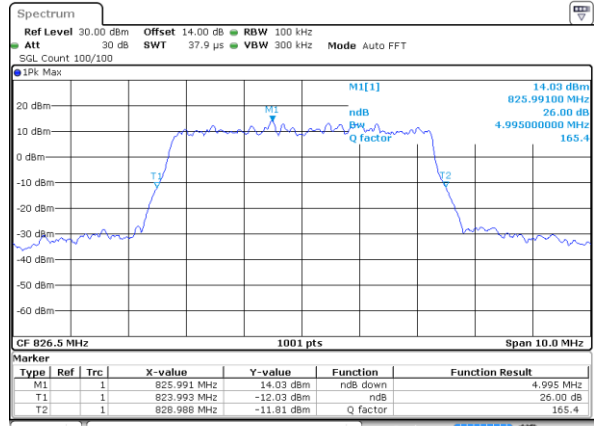
LTE Band 5

Lowest Channel / 5MHz / QPSK



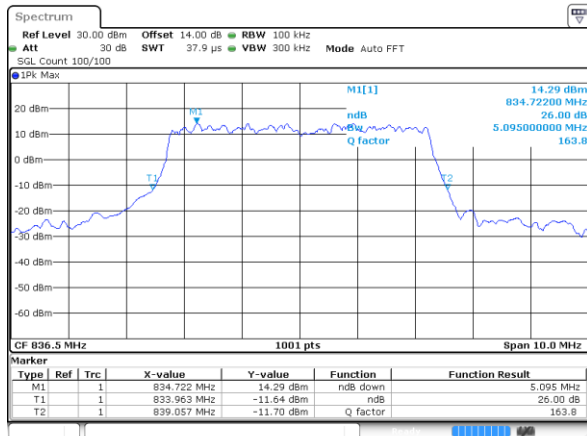
Date: 5 MAY 2019 14:40:38

Lowest Channel / 5MHz / 16QAM



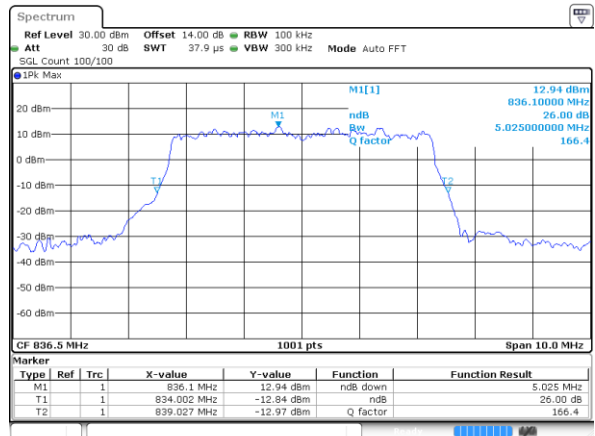
Date: 5 MAY 2019 14:40:48

Middle Channel / 5MHz / QPSK



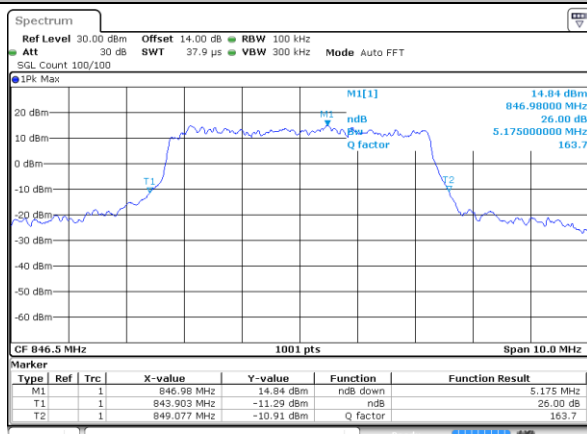
Date: 5 MAY 2019 14:49:39

Middle Channel / 5MHz / 16QAM



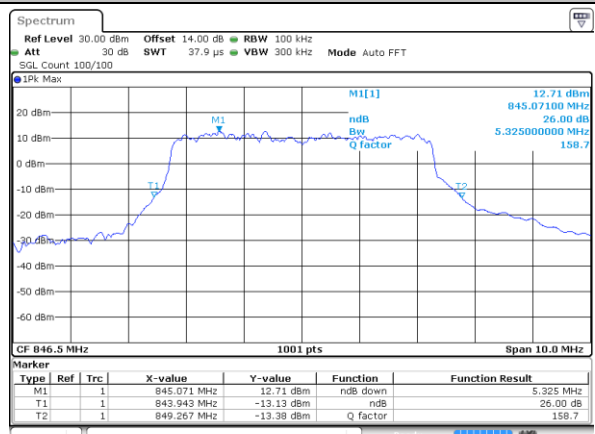
Date: 5 MAY 2019 14:49:49

Highest Channel / 5MHz / QPSK



Date: 5 MAY 2019 14:52:07

Highest Channel / 5MHz / 16QAM

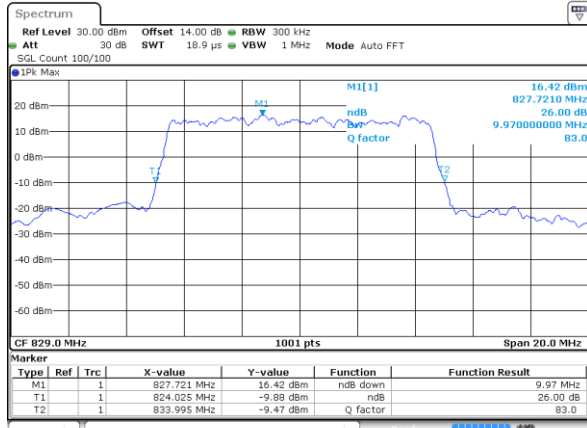


Date: 5 MAY 2019 14:52:17

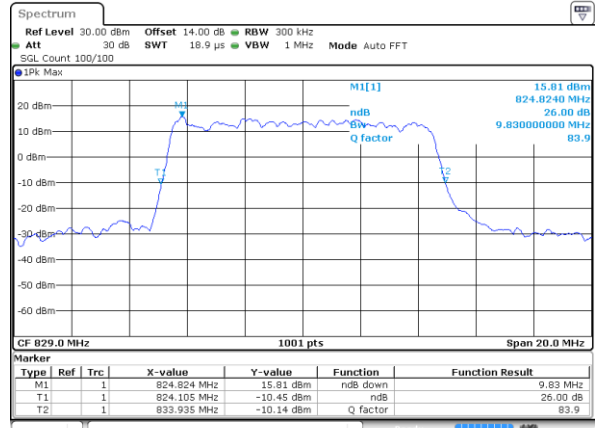


LTE Band 5

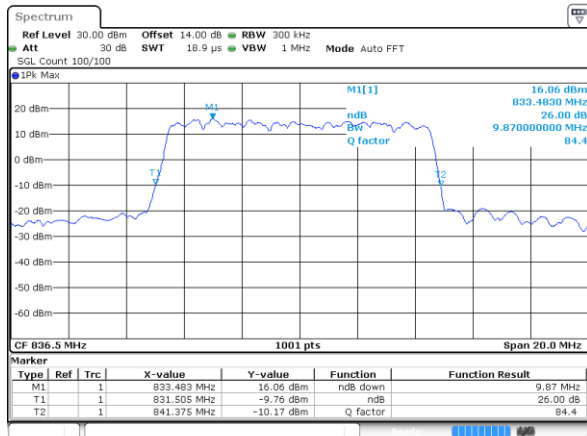
Lowest Channel / 10MHz / QPSK



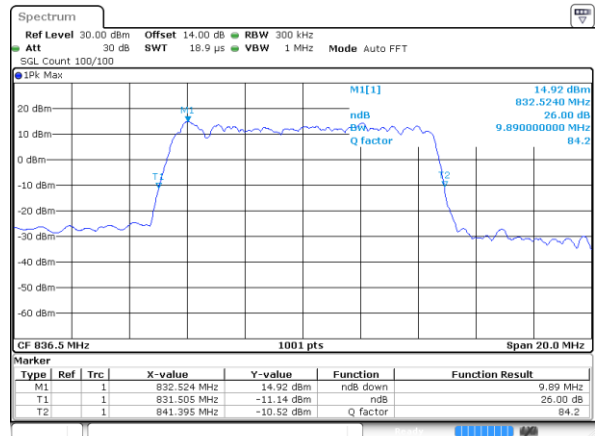
Lowest Channel / 10MHz / 16QAM



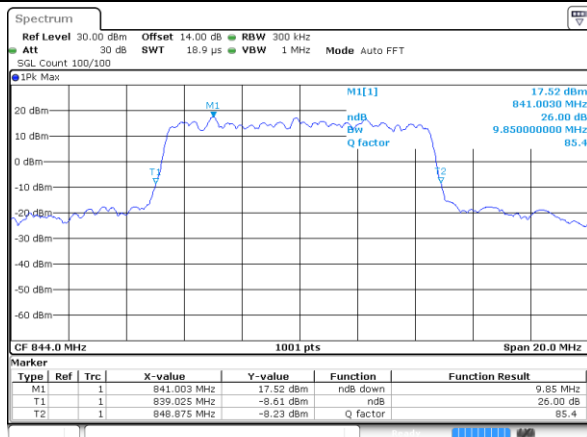
Middle Channel / 10MHz / QPSK



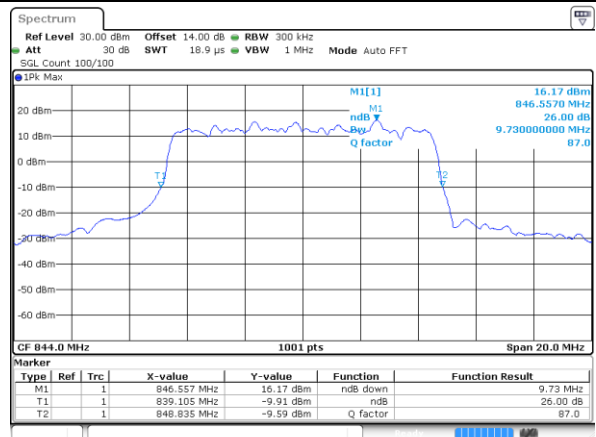
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



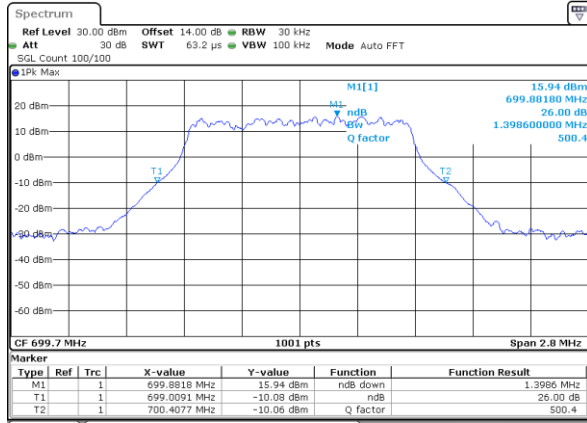
Highest Channel / 10MHz / 16QAM





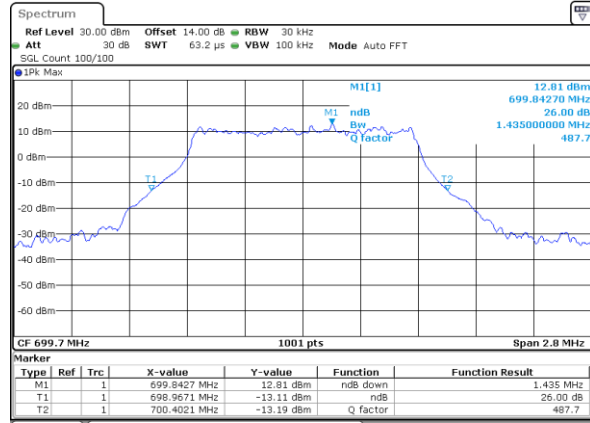
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



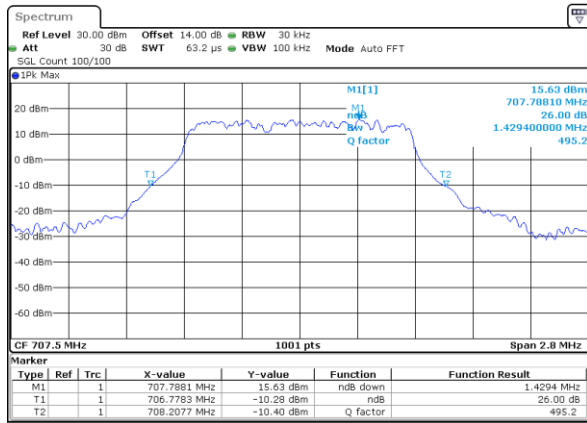
Date: 2.MAY.2019 18:34:27

Lowest Channel / 1.4MHz / 16QAM



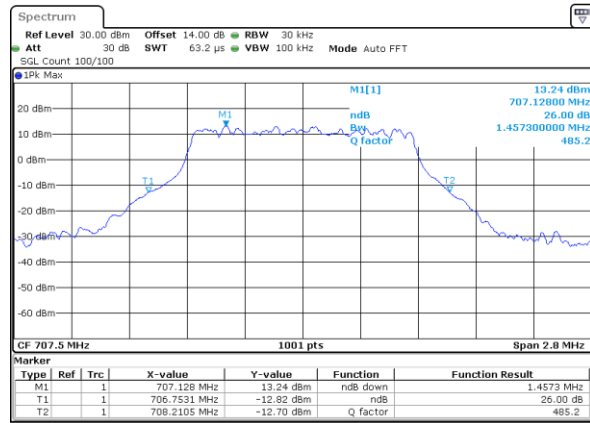
Date: 2.MAY.2019 18:34:17

Middle Channel / 1.4MHz / QPSK



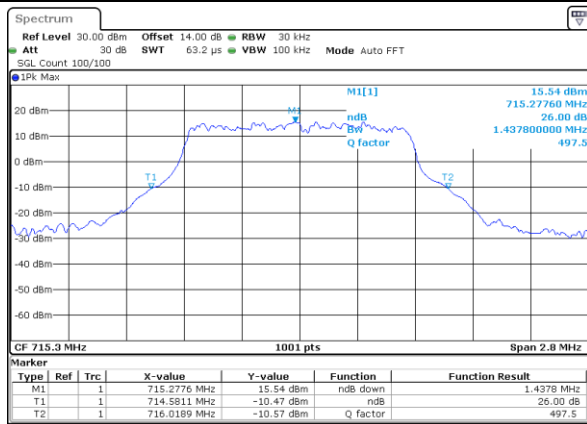
Date: 2.MAY.2019 18:41:29

Middle Channel / 1.4MHz / 16QAM



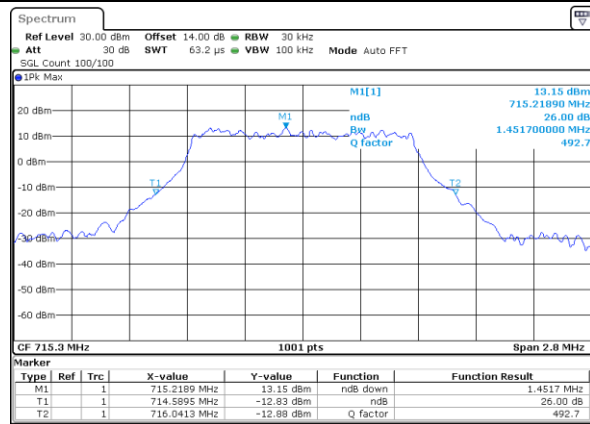
Date: 2.MAY.2019 18:41:39

Highest Channel / 1.4MHz / QPSK



Date: 2.MAY.2019 18:44:01

Highest Channel / 1.4MHz / 16QAM

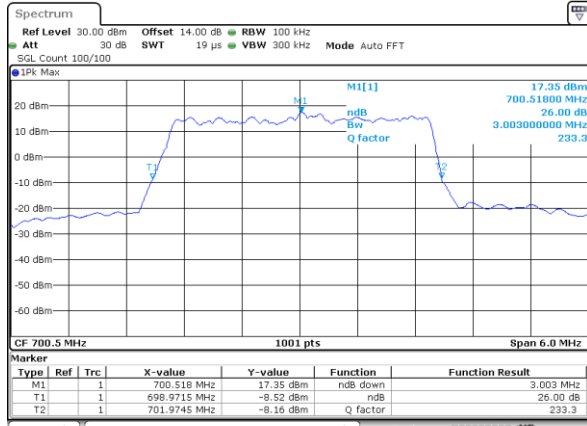


Date: 2.MAY.2019 18:44:11



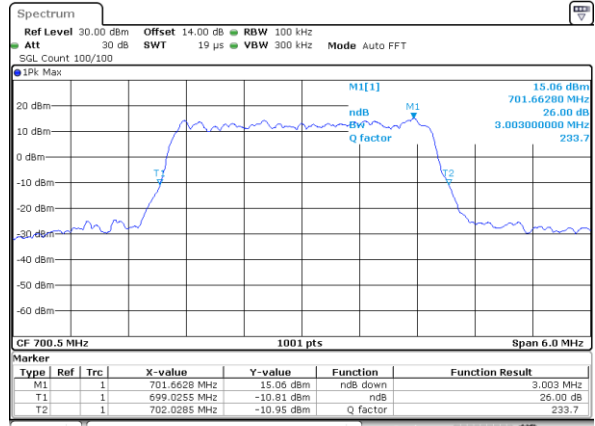
LTE Band 12

Lowest Channel / 3MHz / QPSK



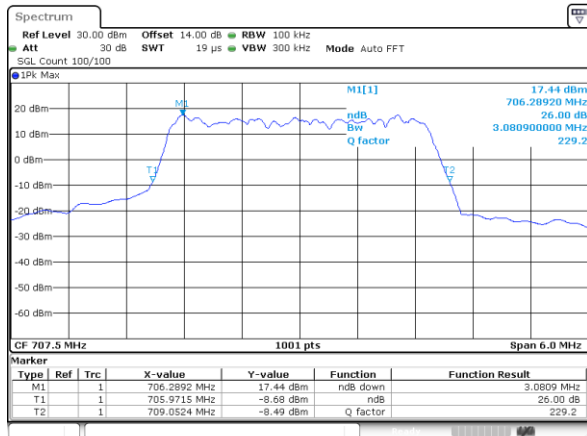
Date: 2.MAY.2019 18:51:12

Lowest Channel / 3MHz / 16QAM



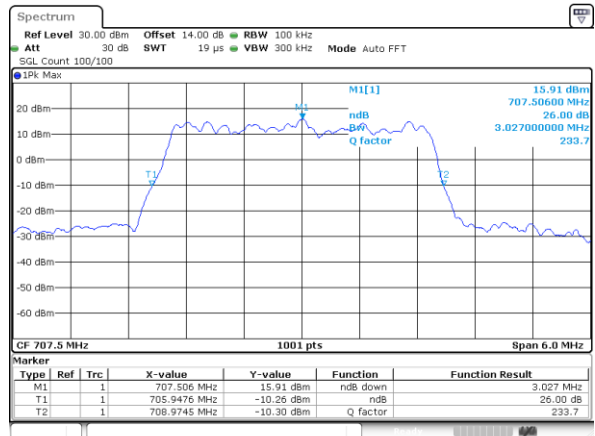
Date: 2.MAY.2019 18:51:22

Middle Channel / 3MHz / QPSK



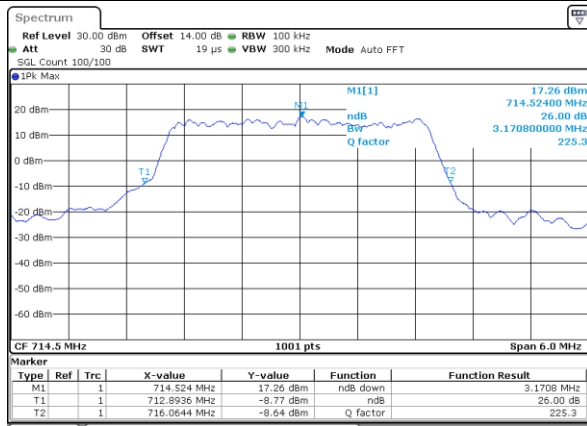
Date: 2.MAY.2019 18:58:24

Middle Channel / 3MHz / 16QAM



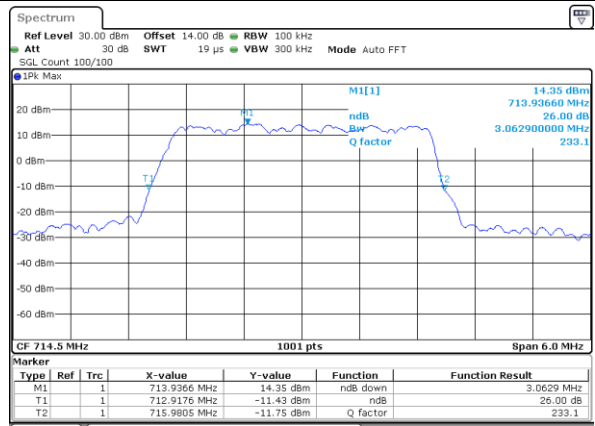
Date: 2.MAY.2019 18:58:34

Highest Channel / 3MHz / QPSK



Date: 2.MAY.2019 19:00:56

Highest Channel / 3MHz / 16QAM

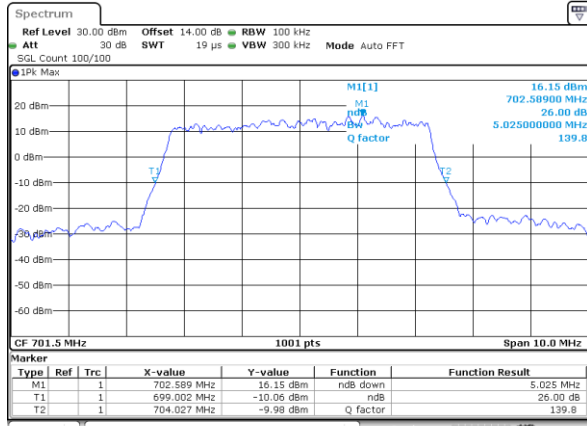


Date: 2.MAY.2019 19:01:06



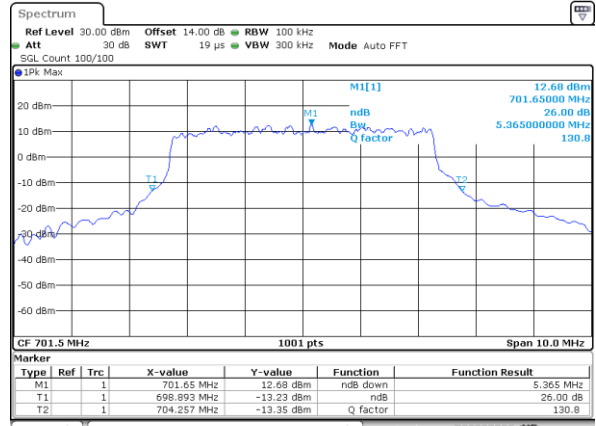
LTE Band 12

Lowest Channel / 5MHz / QPSK



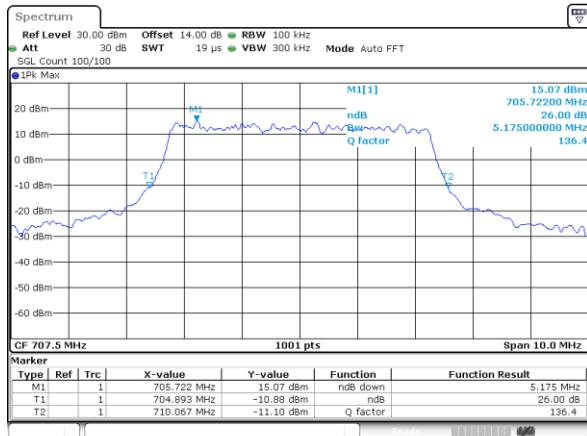
Date: 2.MAY.2019 19:08:08

Lowest Channel / 5MHz / 16QAM



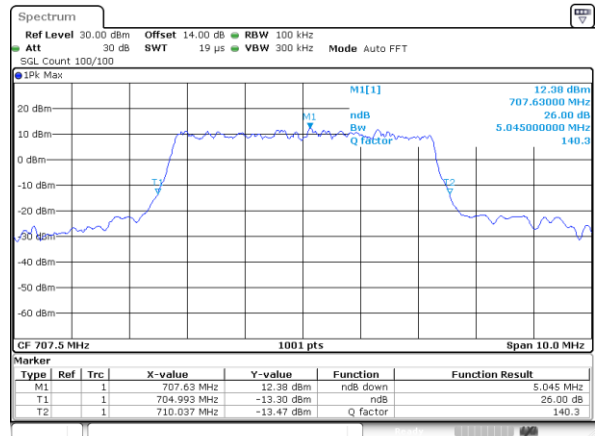
Date: 2.MAY.2019 19:08:18

Middle Channel / 5MHz / QPSK



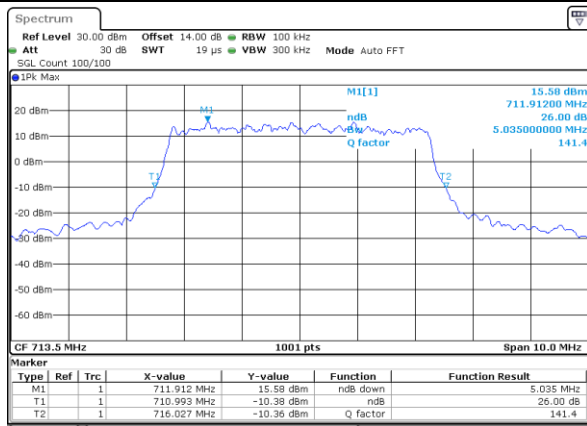
Date: 2.MAY.2019 19:15:19

Middle Channel / 5MHz / 16QAM



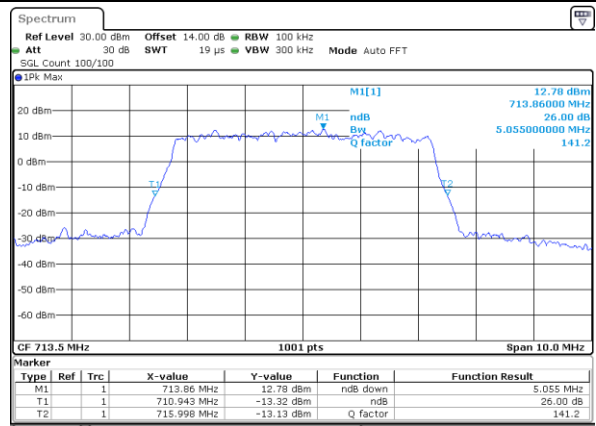
Date: 2.MAY.2019 19:15:29

Highest Channel / 5MHz / QPSK



Date: 2.MAY.2019 19:17:53

Highest Channel / 5MHz / 16QAM

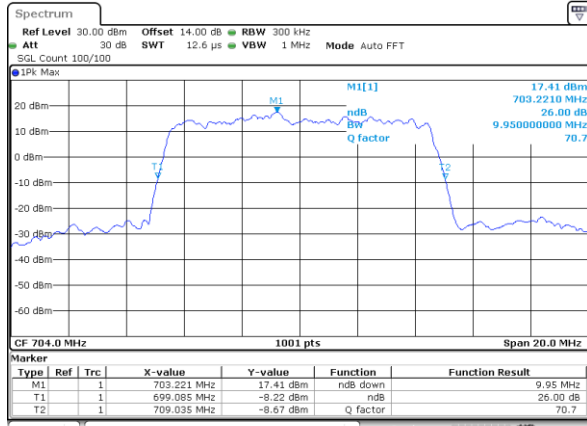


Date: 2.MAY.2019 19:18:03



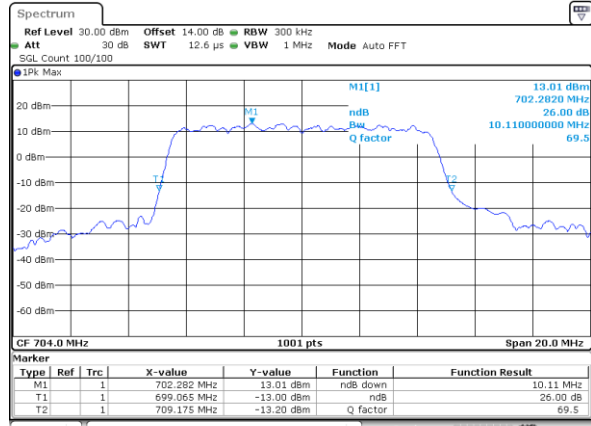
LTE Band 12

Lowest Channel / 10MHz / QPSK



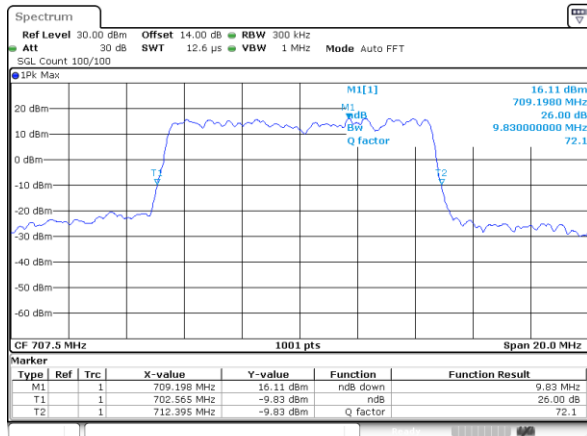
Date: 2.MAY.2019 19:25:04

Lowest Channel / 10MHz / 16QAM



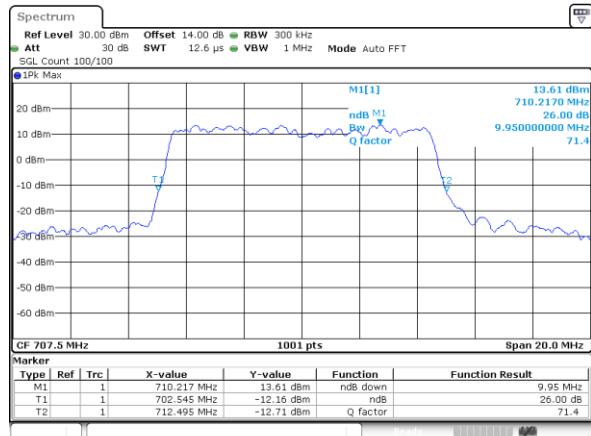
Date: 2.MAY.2019 19:25:14

Middle Channel / 10MHz / QPSK



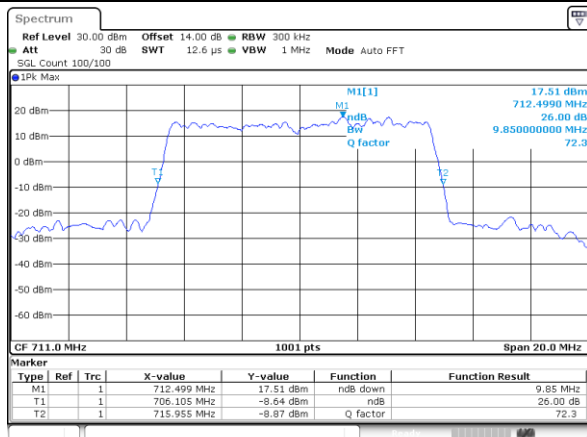
Date: 2.MAY.2019 19:32:15

Middle Channel / 10MHz / 16QAM



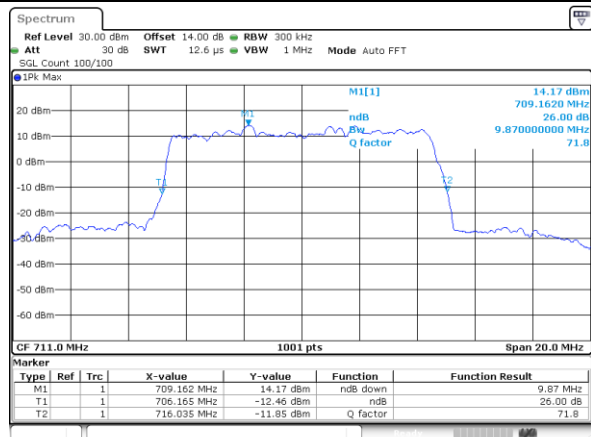
Date: 2.MAY.2019 19:32:25

Highest Channel / 10MHz / QPSK



Date: 2.MAY.2019 19:34:48

Highest Channel / 10MHz / 16QAM

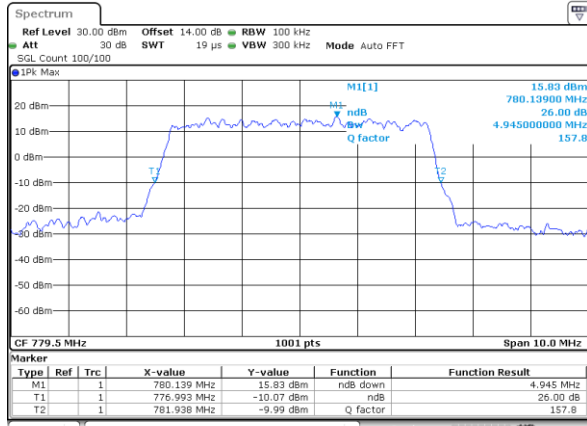


Date: 2.MAY.2019 19:34:58



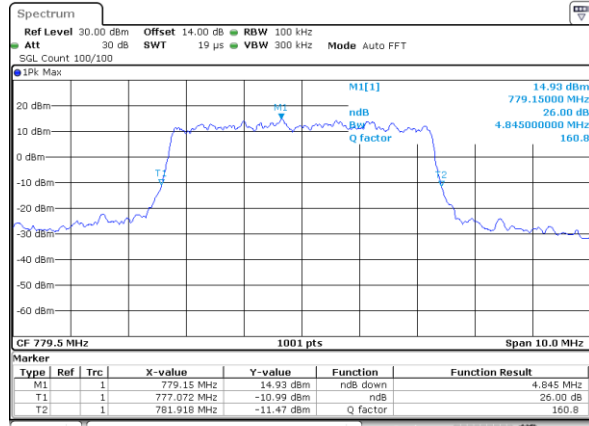
LTE Band 13

Lowest Channel / 5MHz / QPSK



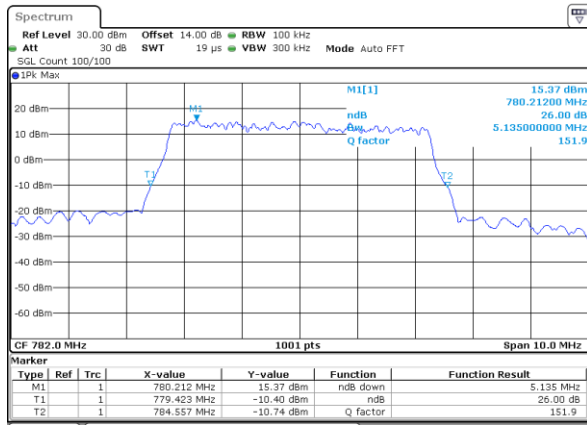
Date: 2.MAY.2019 22:15:08

Lowest Channel / 5MHz / 16QAM



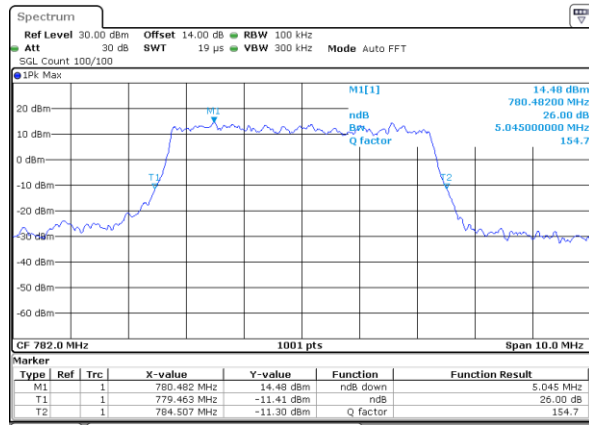
Date: 2.MAY.2019 22:15:18

Middle Channel / 5MHz / QPSK



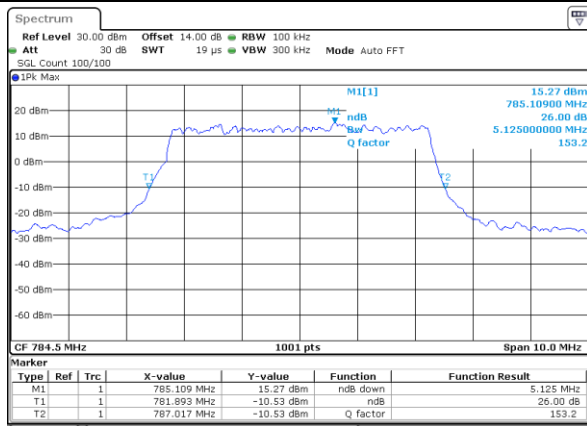
Date: 2.MAY.2019 22:24:19

Middle Channel / 5MHz / 16QAM



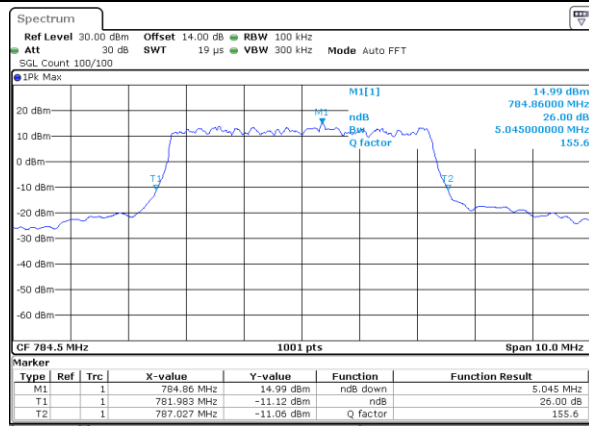
Date: 2.MAY.2019 22:24:29

Highest Channel / 5MHz / QPSK



Date: 2.MAY.2019 22:26:51

Highest Channel / 5MHz / 16QAM

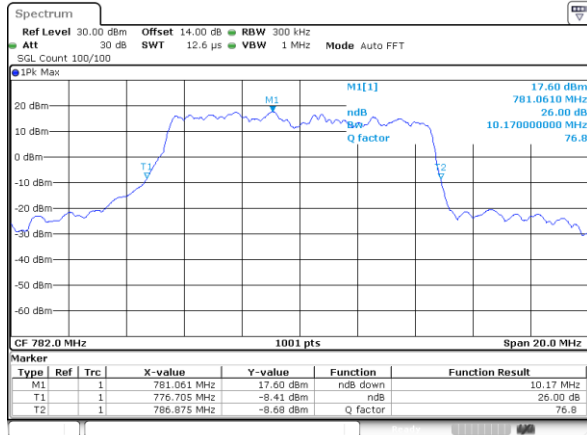


Date: 2.MAY.2019 22:27:01



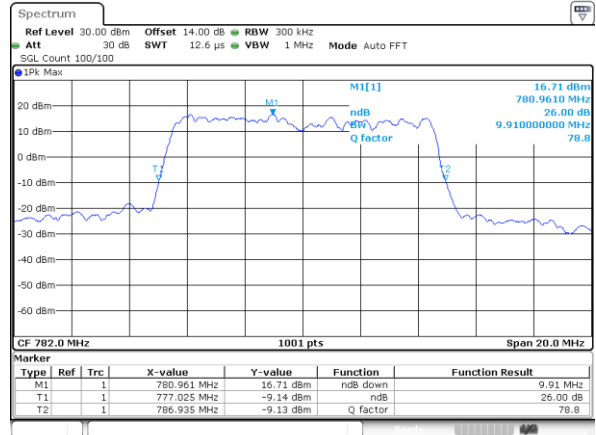
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2.MAY.2019 22:36:01

Middle Channel / 10MHz / 16QAM

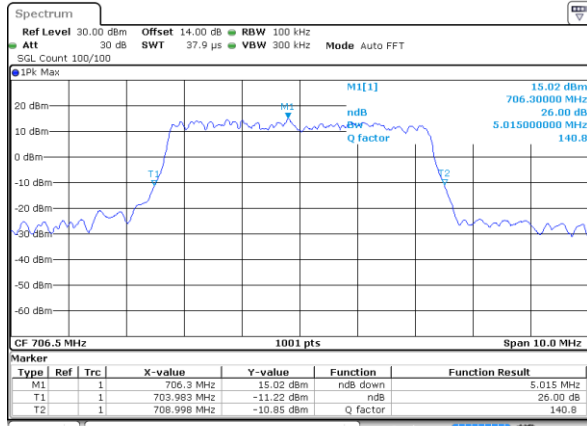


Date: 2.MAY.2019 22:36:11

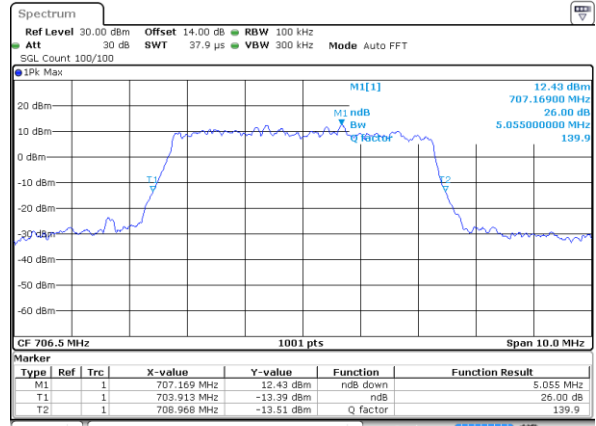


LTE Band 17

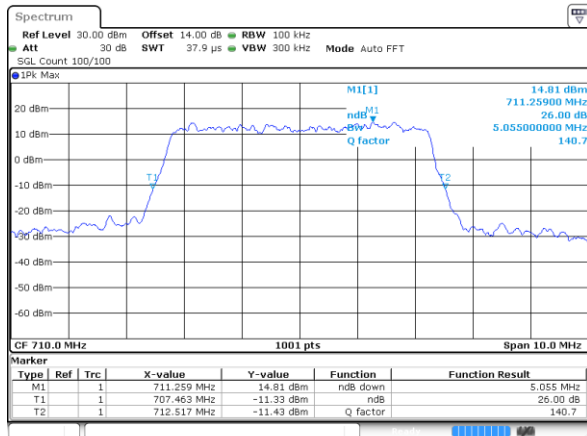
Lowest Channel / 5MHz / QPSK



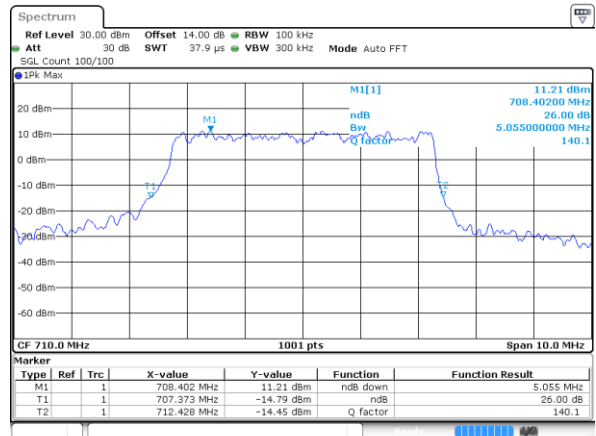
Lowest Channel / 5MHz / 16QAM



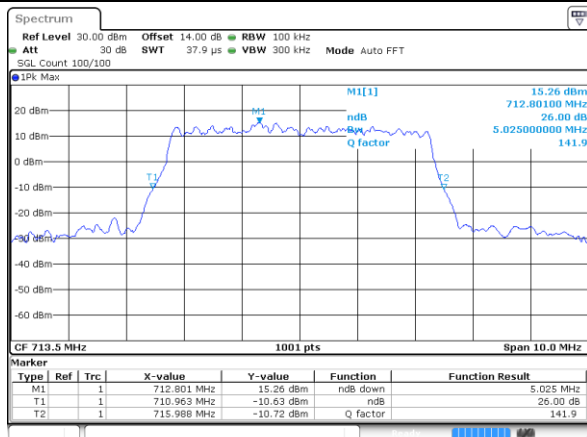
Middle Channel / 5MHz / QPSK



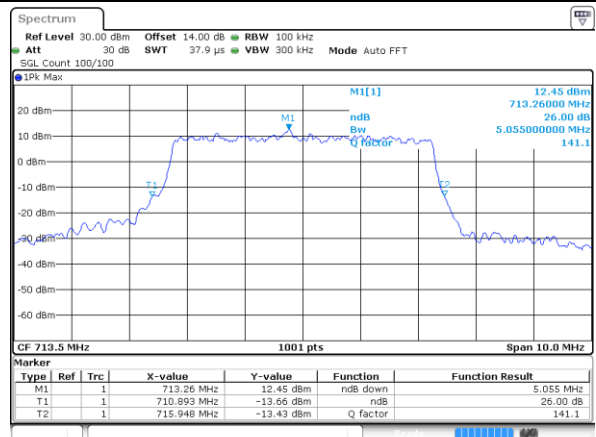
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



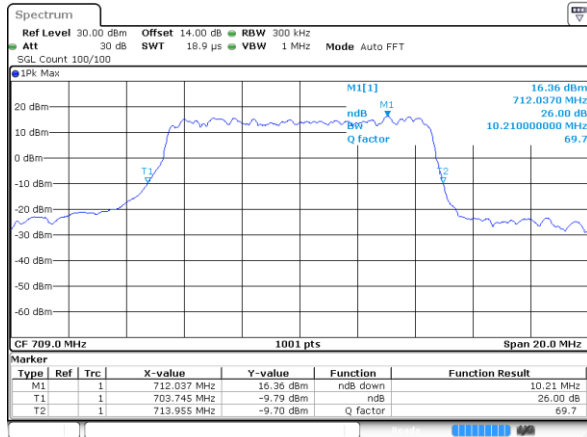
Highest Channel / 5MHz / 16QAM



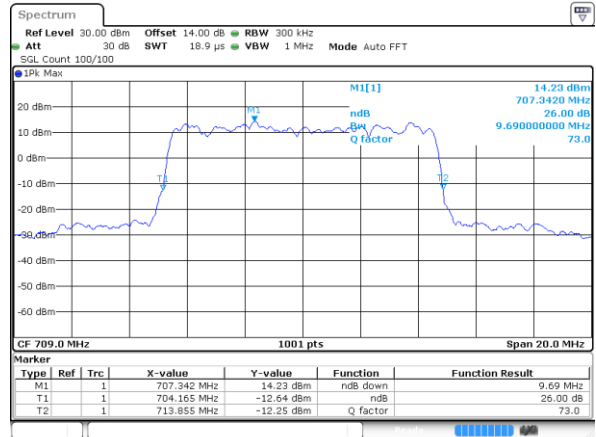


LTE Band 17

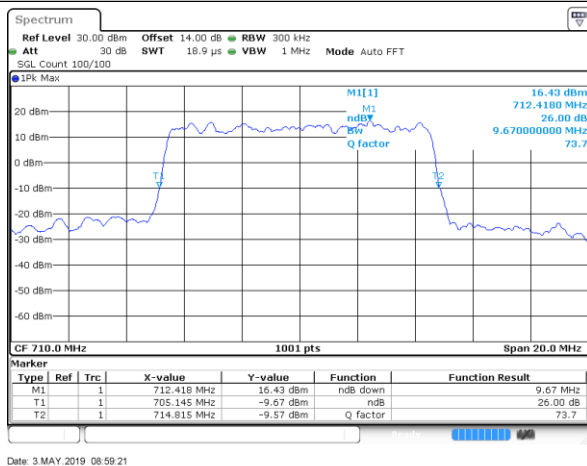
Lowest Channel / 10MHz / QPSK



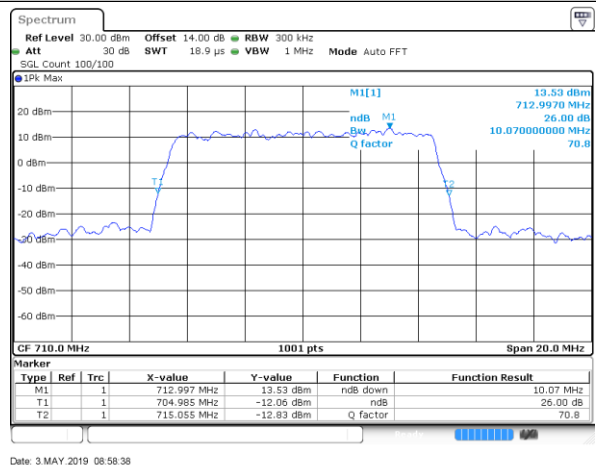
Lowest Channel / 10MHz / 16QAM



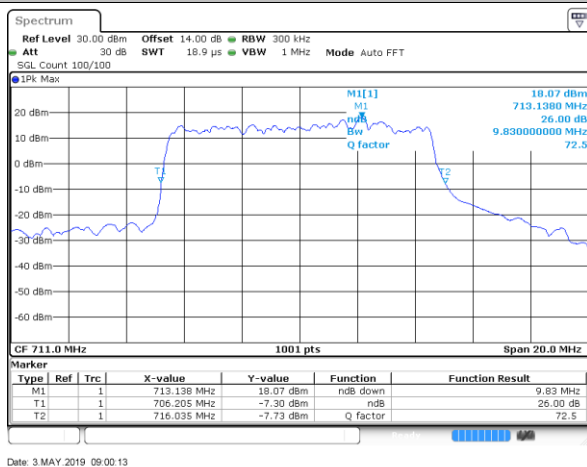
Middle Channel / 10MHz / QPSK



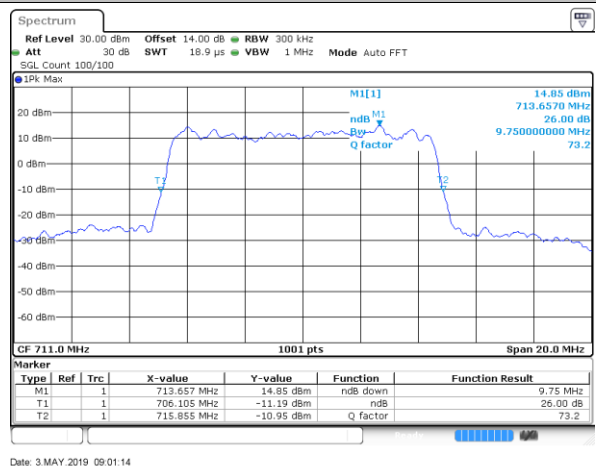
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



**Occupied Bandwidth**

Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.75	2.69	4.50	4.50	9.05	9.01	13.37	13.49	18.46	18.42
Middle CH	1.10	1.11	2.73	2.74	4.50	4.49	9.01	9.07	13.43	13.49	18.46	18.46
Highest CH	1.11	1.11	2.74	2.72	4.53	4.52	9.05	9.03	13.37	13.46	18.38	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	1.10	1.12	2.75	2.72	4.53	4.53	9.05	9.07	13.46	13.40	18.38	18.46
Middle CH	1.11	1.10	2.73	2.72	4.47	4.51	9.05	9.03	13.40	13.40	18.26	18.34
Highest CH	1.09	1.10	2.71	2.73	4.51	4.50	9.01	9.09	13.43	13.52	18.38	18.42

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	1.10	1.10	2.72	2.73	4.53	4.55	9.05	9.05	-	-	-	-
Middle CH	1.09	1.09	2.70	2.73	4.49	4.49	9.07	9.01	-	-	-	-
Highest CH	1.11	1.11	2.71	2.72	4.48	4.53	9.17	9.07	-	-	-	-

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.11	2.72	2.74	4.49	4.53	9.03	8.99	-	-	-	-
Middle CH	1.09	1.10	2.72	2.71	4.51	4.52	9.05	9.07	-	-	-	-
Highest CH	1.10	1.09	2.73	2.72	4.48	4.49	9.07	9.03	-	-	-	-



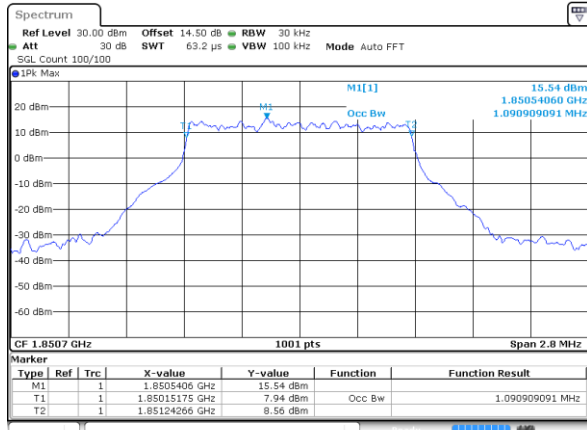
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.53	4.56	9.11	9.07	-	-	-	-
Highest CH	-	-	-	-	4.51	4.54	-	-	-	-	-	-

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	9.07	9.07	-	-	-	-
Middle CH	-	-	-	-	4.5	4.5	9.05	9.05	-	-	-	-
Highest CH	-	-	-	-	4.49	4.48	9.01	9.01	-	-	-	-

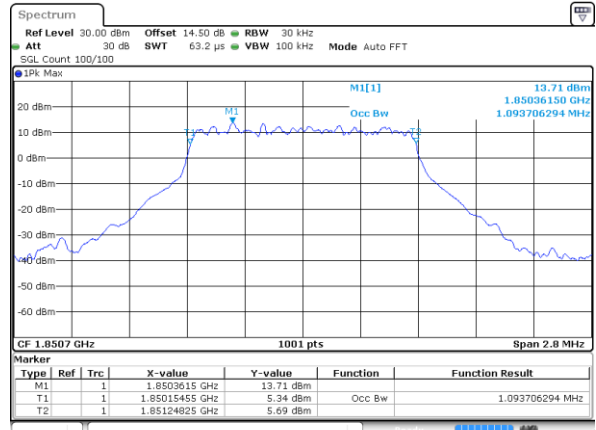


LTE Band 2

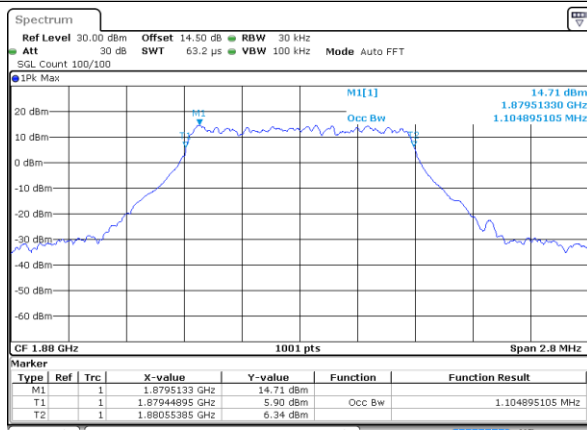
Lowest Channel / 1.4MHz / QPSK



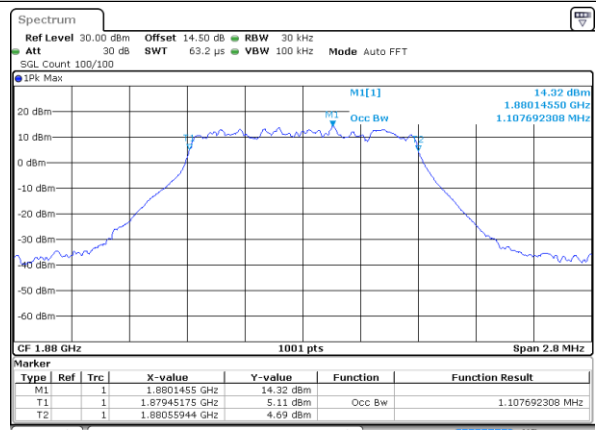
Lowest Channel / 1.4MHz / 16QAM



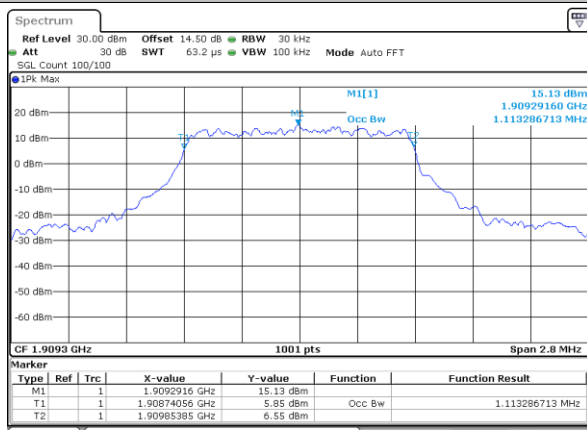
Middle Channel / 1.4MHz / QPSK



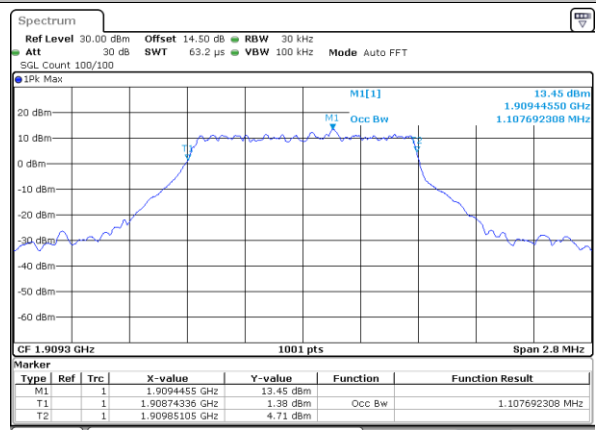
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



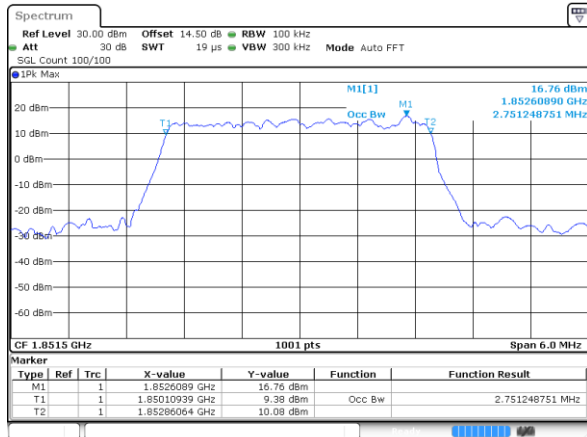
Highest Channel / 1.4MHz / 16QAM





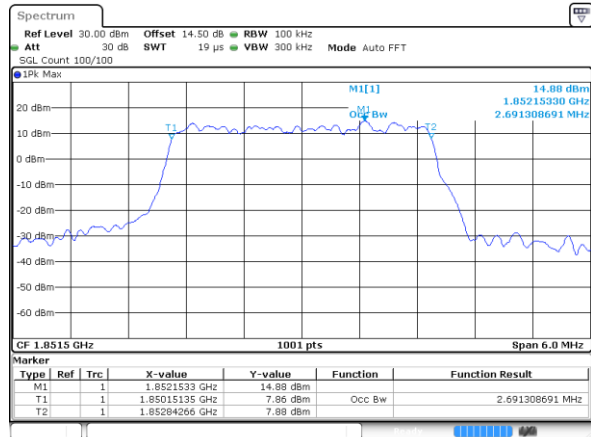
LTE Band 2

Lowest Channel / 3MHz / QPSK



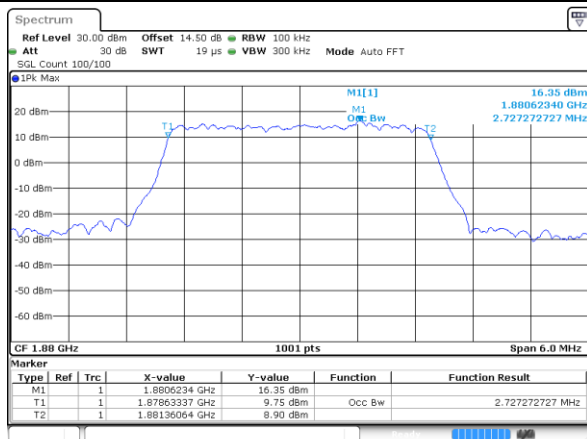
Date: 1 MAY 2019 12:41:49

Lowest Channel / 3MHz / 16QAM



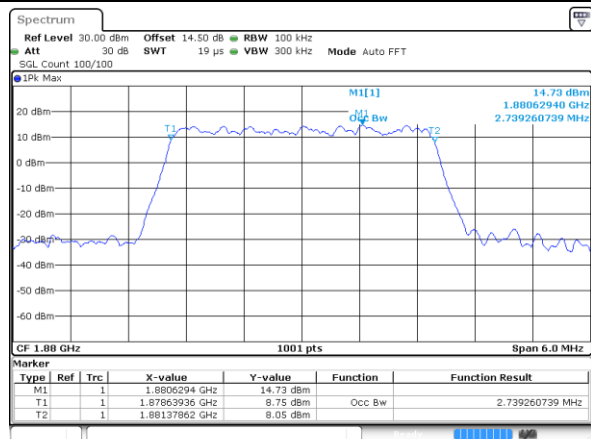
Date: 1 MAY 2019 12:41:59

Middle Channel / 3MHz / QPSK



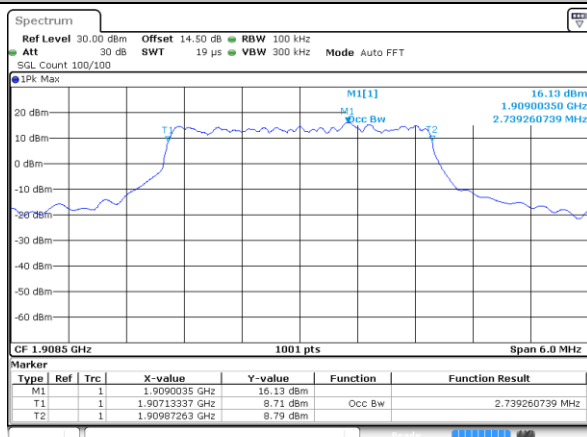
Date: 1 MAY 2019 12:48:52

Middle Channel / 3MHz / 16QAM



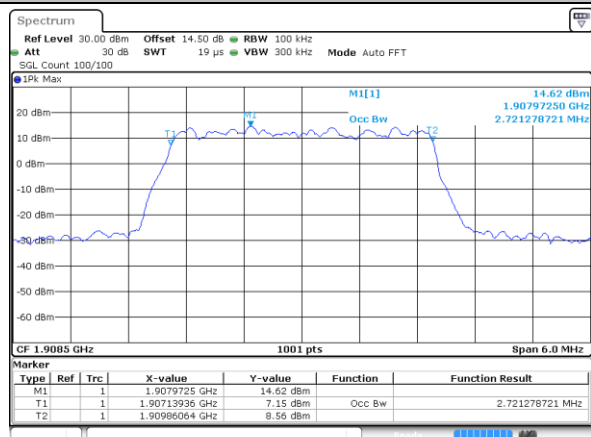
Date: 1 MAY 2019 12:49:01

Highest Channel / 3MHz / QPSK



Date: 1 MAY 2019 12:51:21

Highest Channel / 3MHz / 16QAM

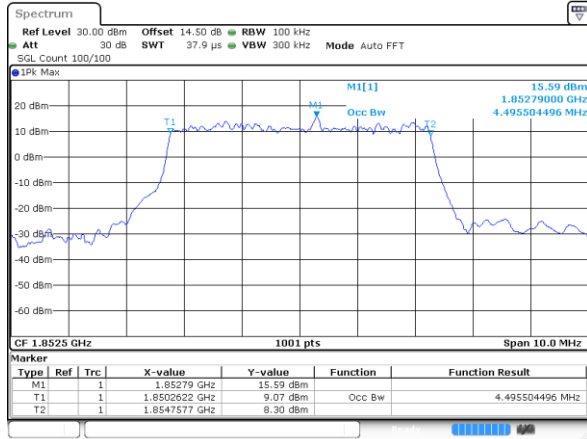


Date: 1 MAY 2019 12:51:30



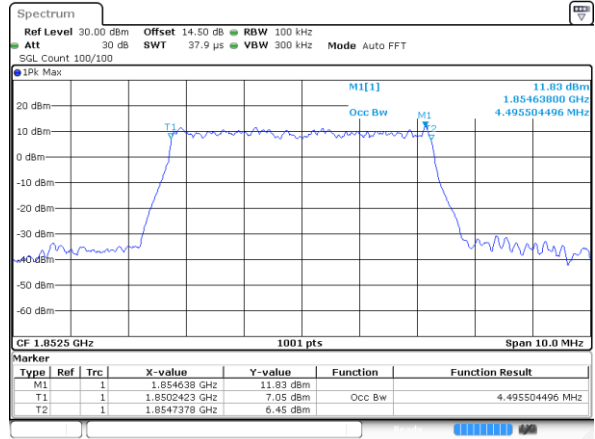
LTE Band 2

Lowest Channel / 5MHz / QPSK



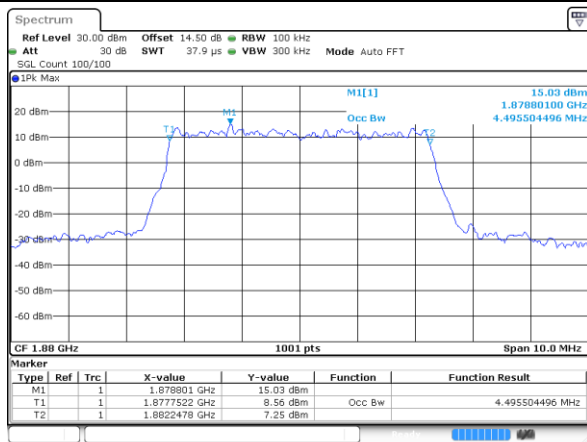
Date: 1 MAY 2019 13:41:56

Lowest Channel / 5MHz / 16QAM



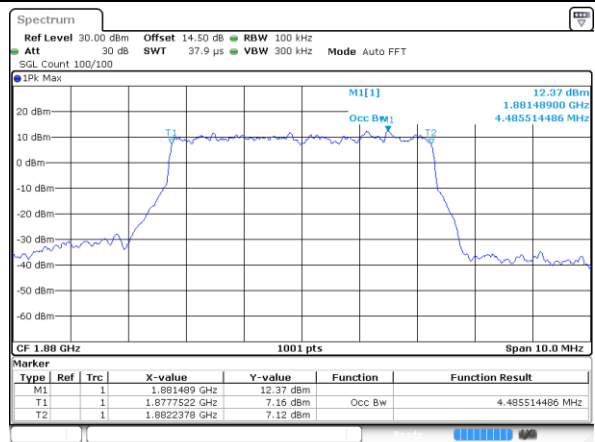
Date: 1 MAY 2019 13:42:06

Middle Channel / 5MHz / QPSK



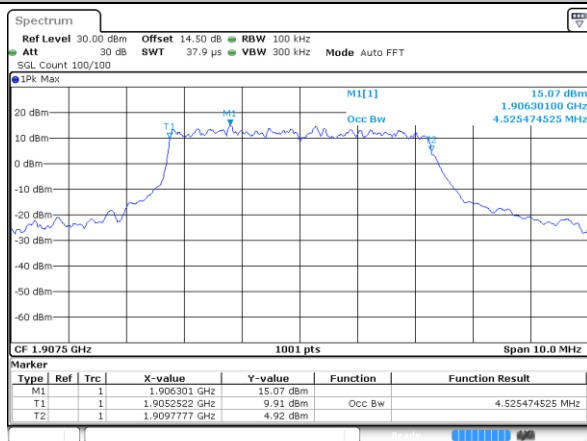
Date: 1 MAY 2019 13:48:59

Middle Channel / 5MHz / 16QAM



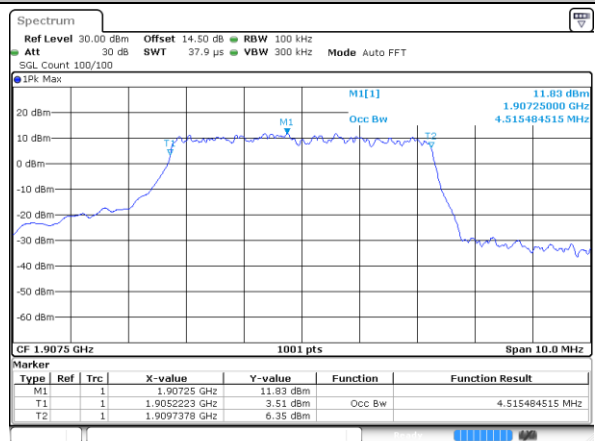
Date: 1 MAY 2019 13:49:09

Highest Channel / 5MHz / QPSK



Date: 1 MAY 2019 13:51:28

Highest Channel / 5MHz / 16QAM



Date: 1 MAY 2019 13:51:38