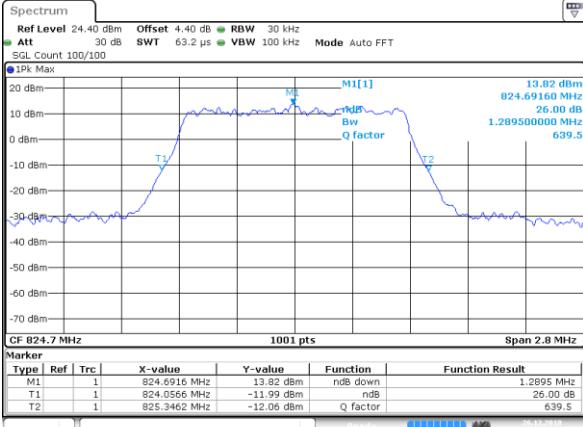




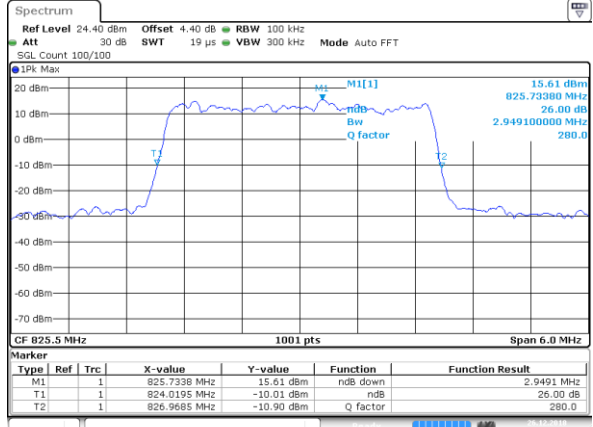
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



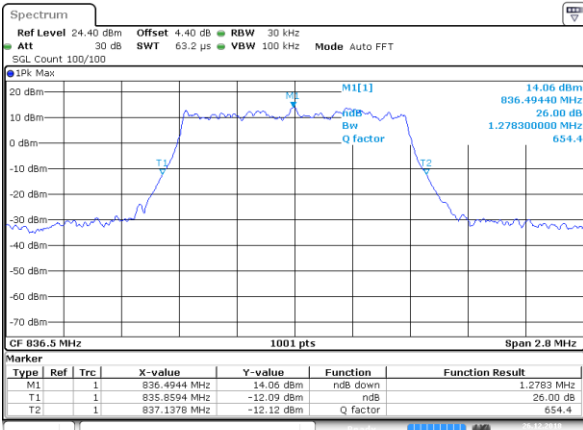
Date: 26 DEC 2018 12:53:59

Lowest Channel / 3MHz / 64QAM



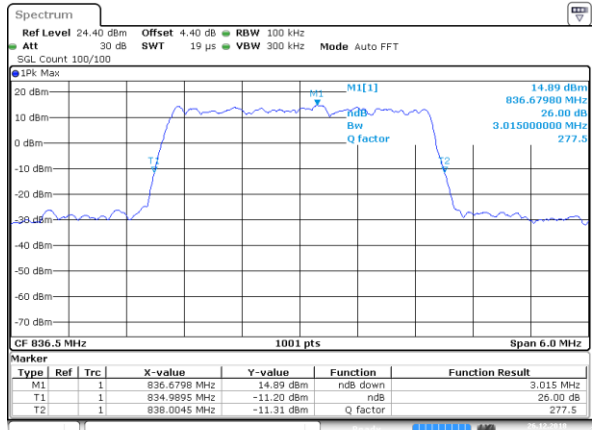
Date: 26 DEC 2018 12:18:55

Middle Channel / 1.4MHz / 64QAM



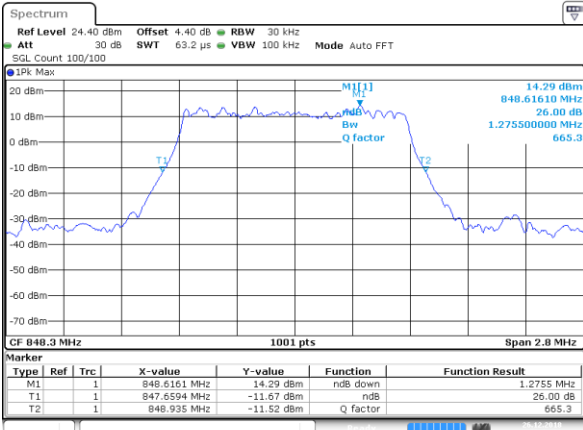
Date: 26 DEC 2018 12:14:07

Middle Channel / 3MHz / 64QAM



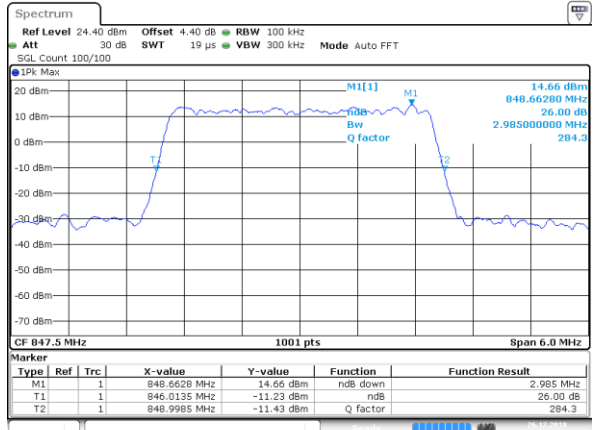
Date: 26 DEC 2018 12:24:16

Highest Channel / 1.4MHz / 64QAM



Date: 26 DEC 2018 12:14:27

Highest Channel / 3MHz / 64QAM

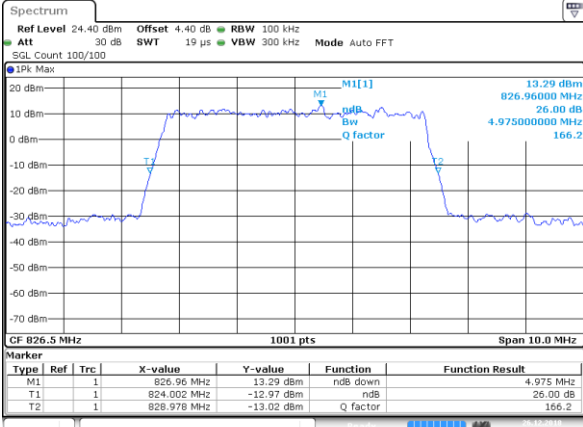


Date: 26 DEC 2018 12:24:36



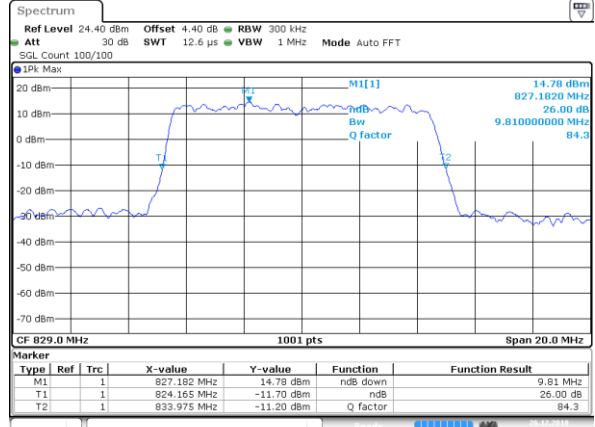
LTE Band 5

Lowest Channel / 5MHz / 64QAM



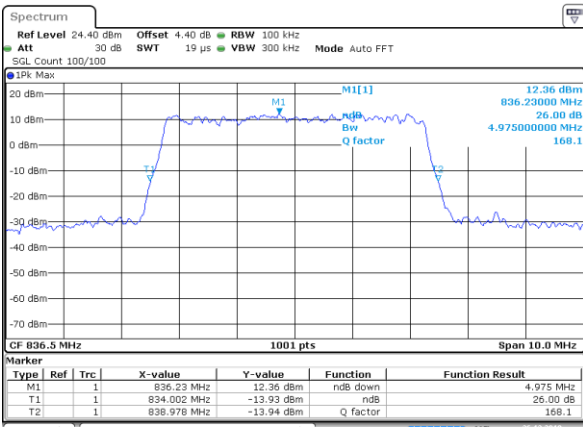
Date: 26 DEC 2018 12:29:04

Lowest Channel / 10MHz / 64QAM



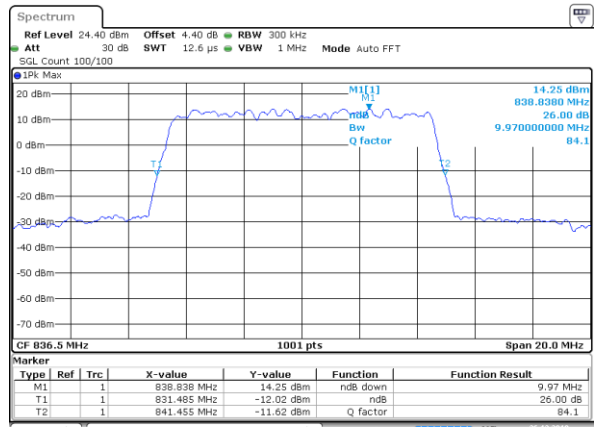
Date: 26 DEC 2018 12:39:14

Middle Channel / 5MHz / 64QAM



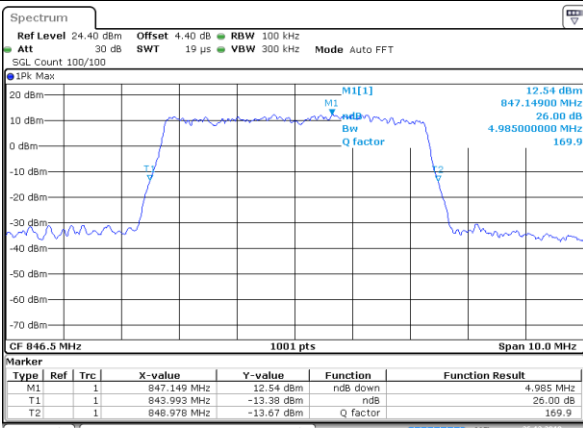
Date: 26 DEC 2018 12:34:28

Middle Channel / 10MHz / 64QAM



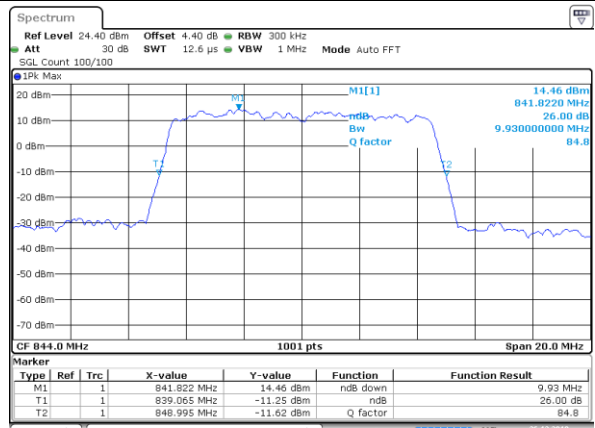
Date: 26 DEC 2018 12:44:35

Highest Channel / 5MHz / 64QAM



Date: 26 DEC 2018 12:34:46

Highest Channel / 10MHz / 64QAM

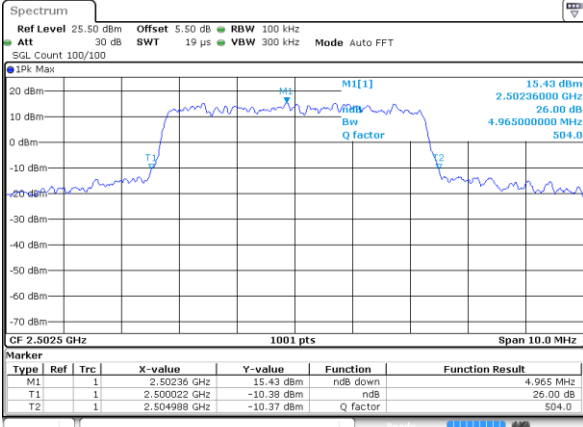


Date: 26 DEC 2018 12:44:55



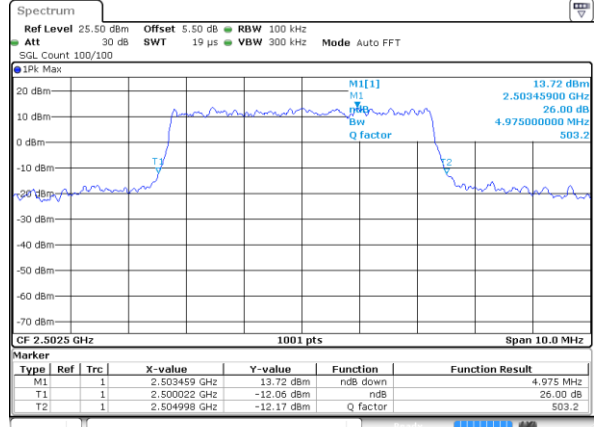
LTE Band 7

Lowest Channel / 5MHz / QPSK



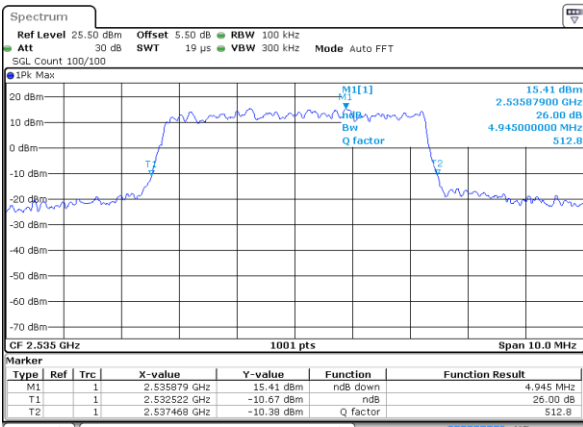
Date: 26 DEC 2018 14:33:25

Lowest Channel / 5MHz / 16QAM



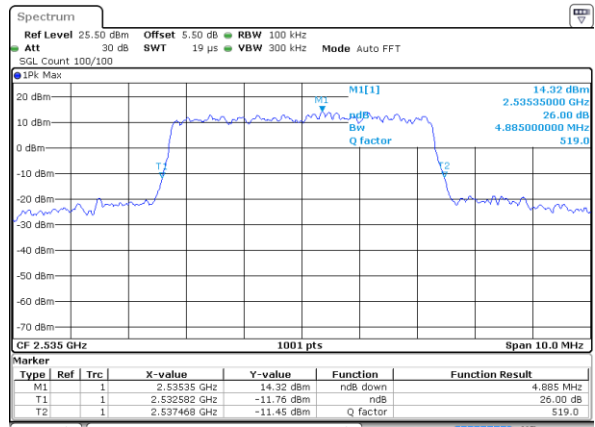
Date: 26 DEC 2018 14:33:45

Middle Channel / 5MHz / QPSK



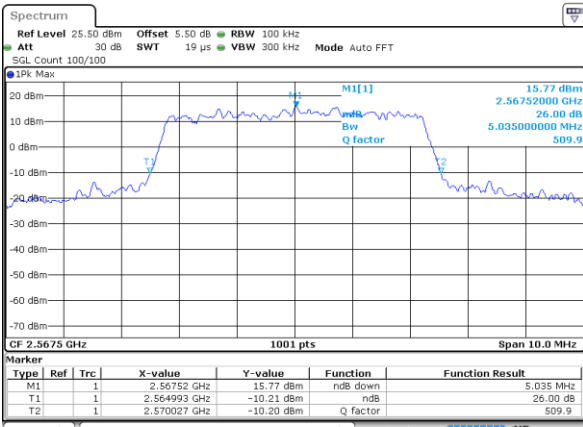
Date: 26 DEC 2018 14:34:25

Middle Channel / 5MHz / 16QAM



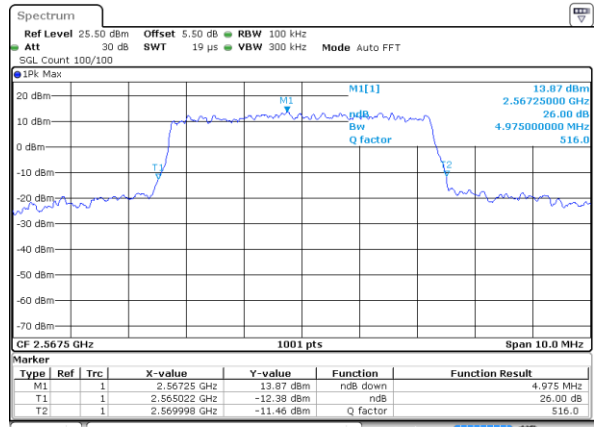
Date: 26 DEC 2018 14:34:05

Highest Channel / 5MHz / QPSK



Date: 26 DEC 2018 14:34:45

Highest Channel / 5MHz / 16QAM

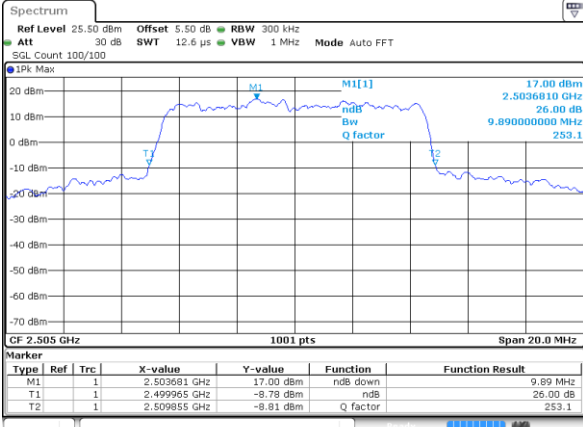


Date: 26 DEC 2018 14:35:05



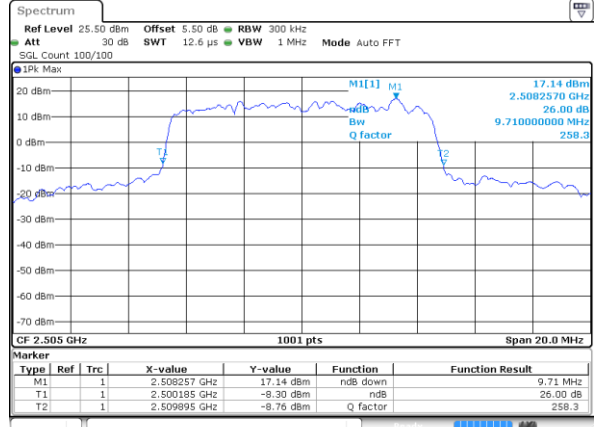
LTE Band 7

Lowest Channel / 10MHz / QPSK



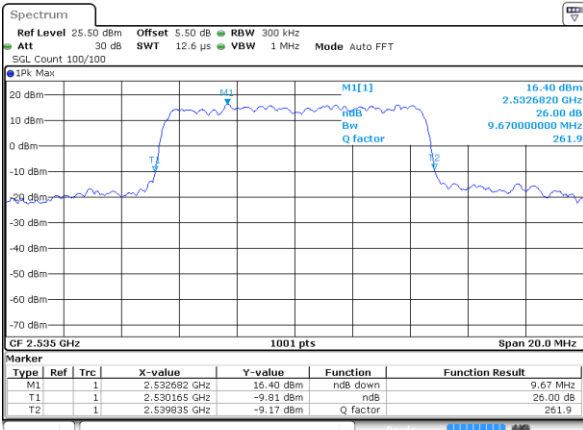
Date: 26 DEC 2018 14:40:47

Lowest Channel / 10MHz / 16QAM



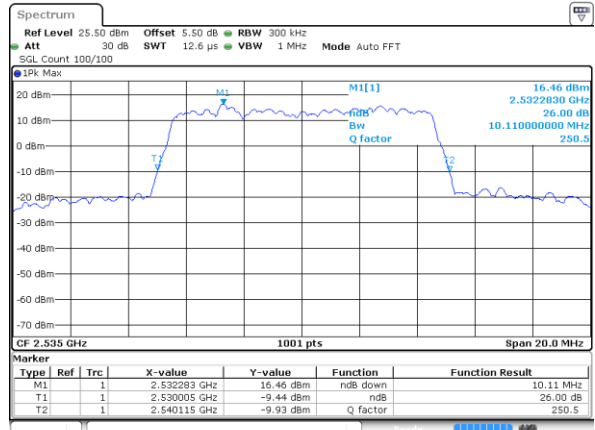
Date: 26 DEC 2018 14:41:07

Middle Channel / 10MHz / QPSK



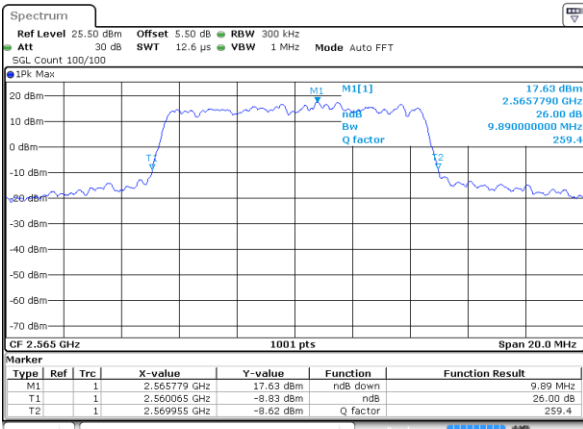
Date: 26 DEC 2018 14:41:47

Middle Channel / 10MHz / 16QAM



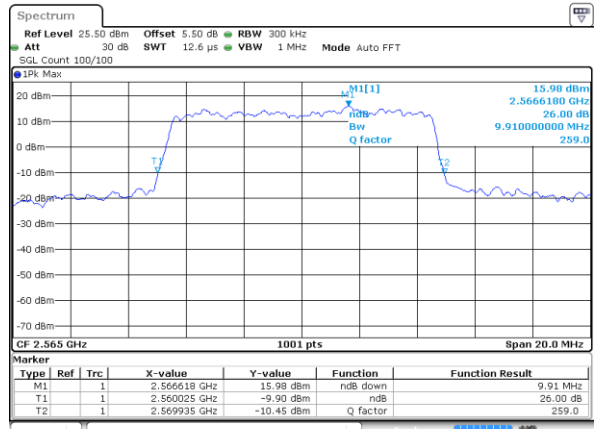
Date: 26 DEC 2018 14:41:27

Highest Channel / 10MHz / QPSK



Date: 26 DEC 2018 14:42:07

Highest Channel / 10MHz / 16QAM

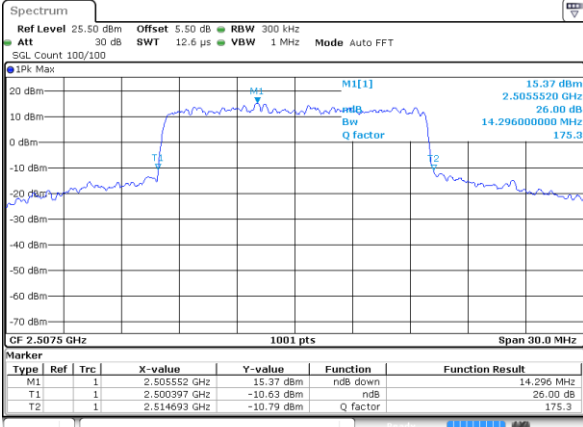


Date: 26 DEC 2018 14:42:27



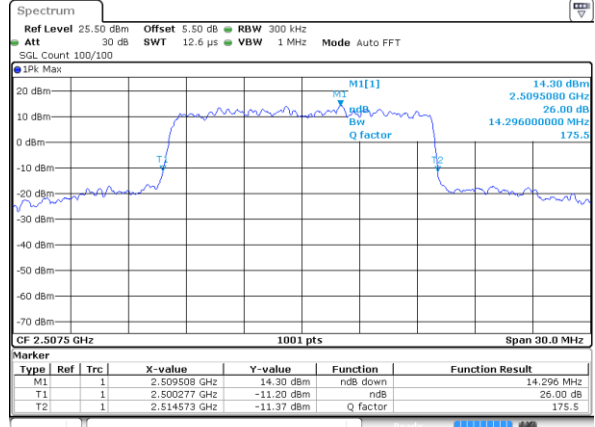
LTE Band 7

Lowest Channel / 15MHz / QPSK



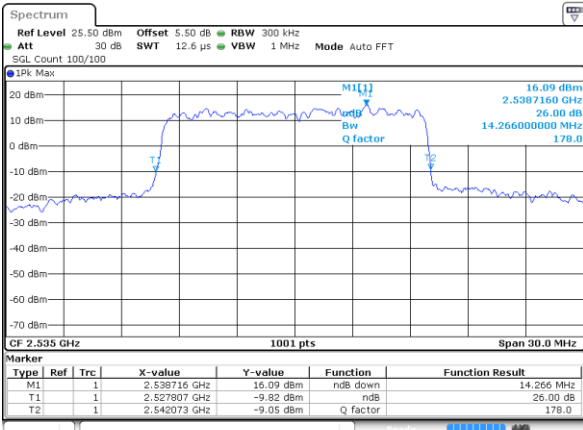
Date: 26 DEC 2018 14:48:28

Lowest Channel / 15MHz / 16QAM



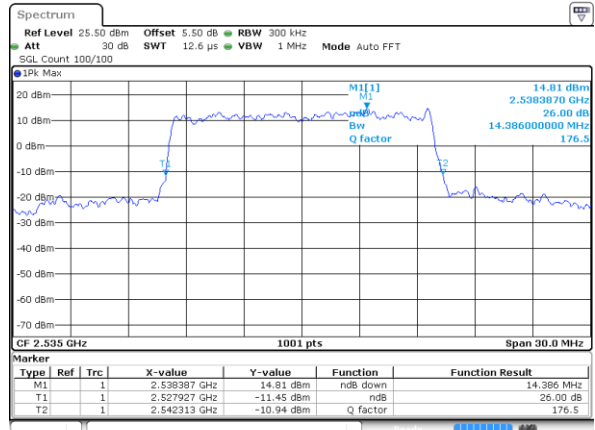
Date: 26 DEC 2018 14:48:08

Middle Channel / 15MHz / QPSK



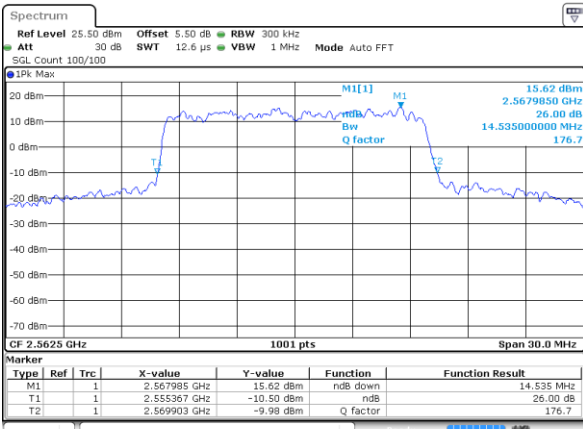
Date: 26 DEC 2018 14:48:48

Middle Channel / 15MHz / 16QAM



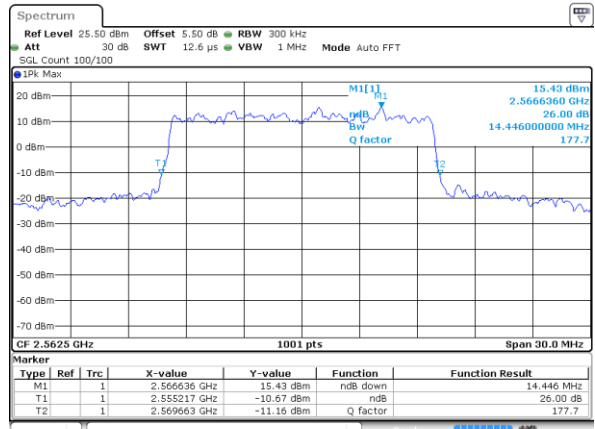
Date: 26 DEC 2018 14:49:09

Highest Channel / 15MHz / QPSK



Date: 26 DEC 2018 14:49:49

Highest Channel / 15MHz / 16QAM

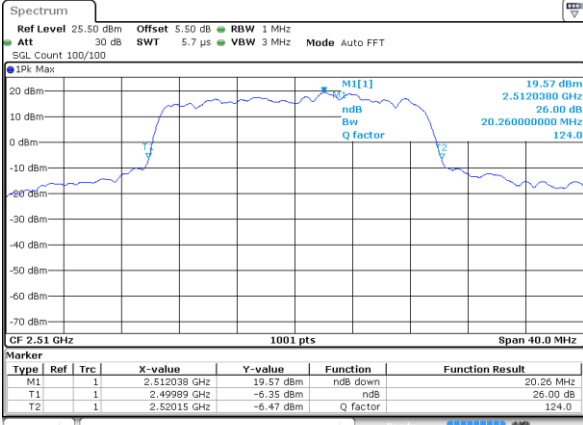


Date: 26 DEC 2018 14:49:29



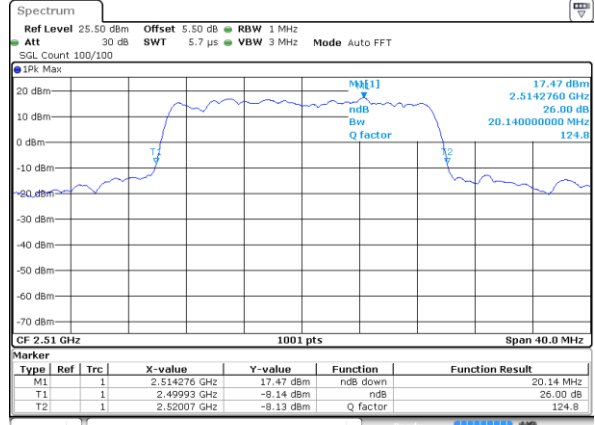
LTE Band 7

Lowest Channel / 20MHz / QPSK



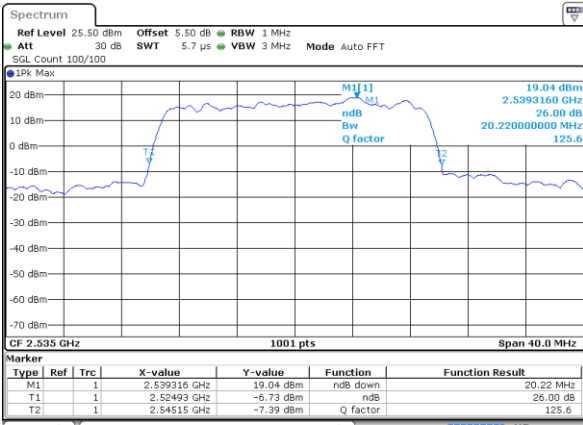
Date: 26 DEC 2018 14:55:50

Lowest Channel / 20MHz / 16QAM



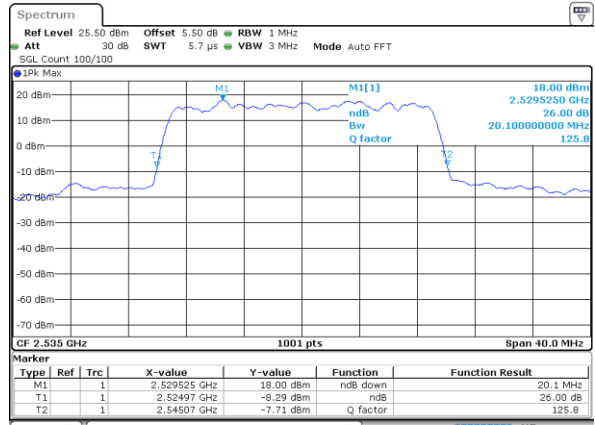
Date: 26 DEC 2018 14:55:30

Middle Channel / 20MHz / QPSK



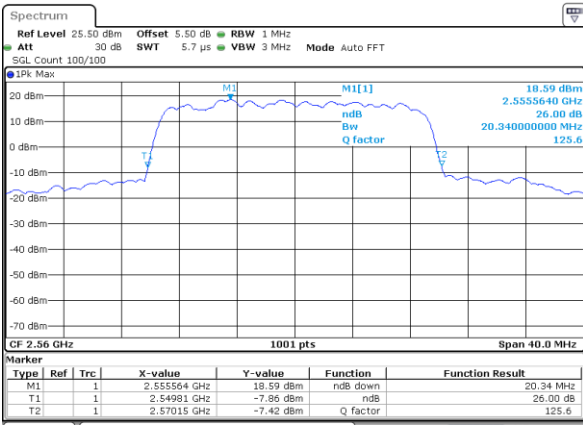
Date: 26 DEC 2018 14:56:10

Middle Channel / 20MHz / 16QAM



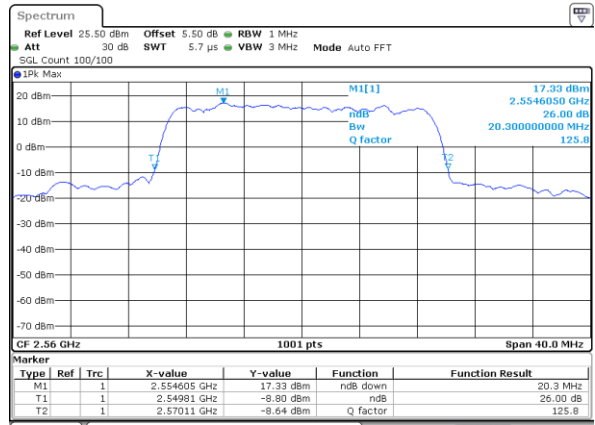
Date: 26 DEC 2018 14:56:31

Highest Channel / 20MHz / QPSK



Date: 26 DEC 2018 14:57:11

Highest Channel / 20MHz / 16QAM

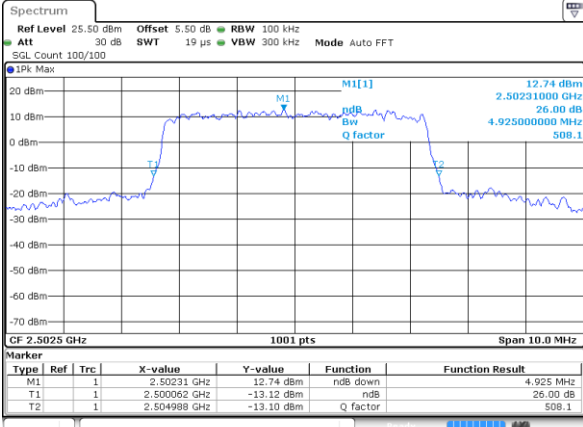


Date: 26 DEC 2018 14:56:51



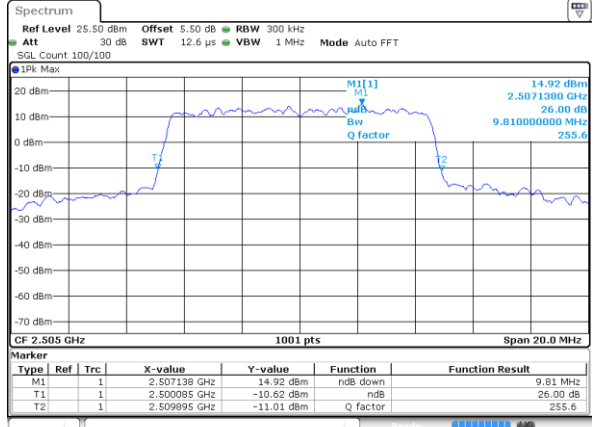
LTE Band 7

Lowest Channel / 5MHz / 64QAM



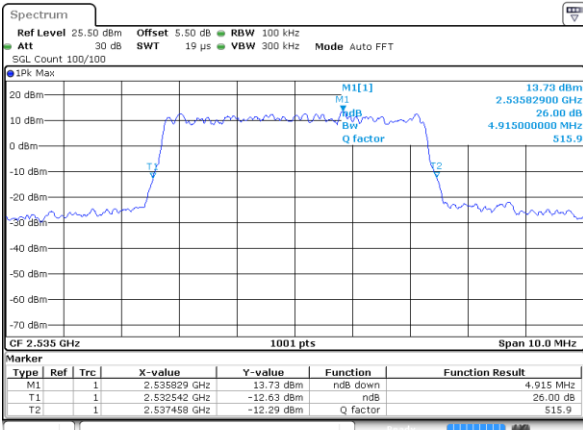
Date: 26 DEC 2018 15:08:58

Lowest Channel / 10MHz / 64QAM



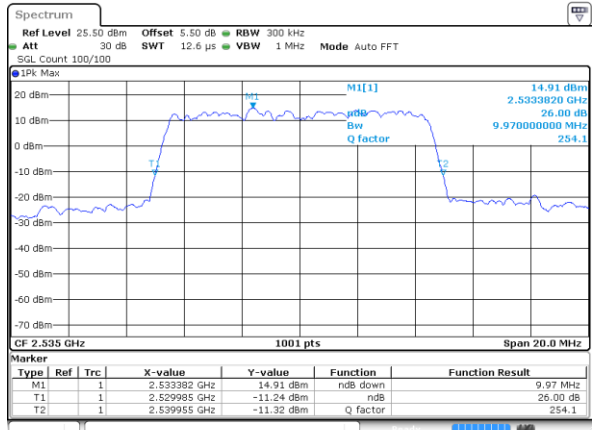
Date: 26 DEC 2018 15:12:54

Middle Channel / 5MHz / 64QAM



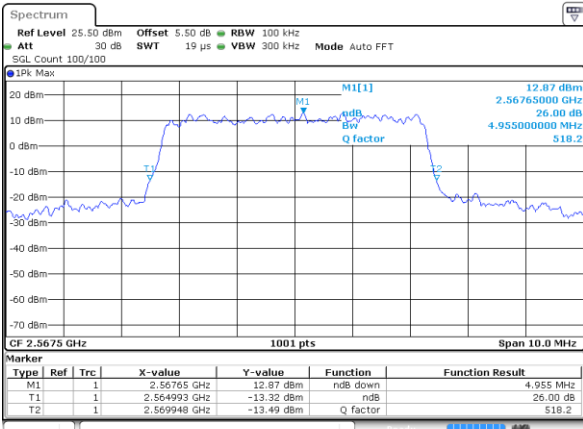
Date: 26 DEC 2018 15:07:09

Middle Channel / 10MHz / 64QAM



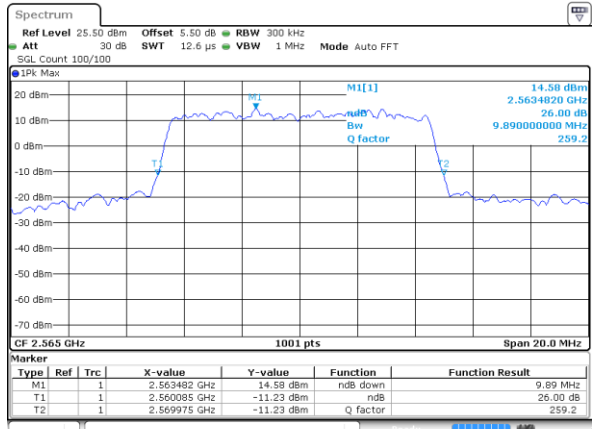
Date: 26 DEC 2018 15:13:04

Highest Channel / 5MHz / 64QAM



Date: 26 DEC 2018 15:07:19

Highest Channel / 10MHz / 64QAM

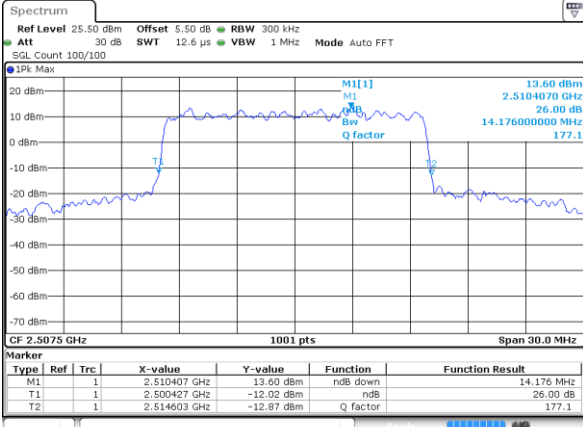


Date: 26 DEC 2018 15:13:14



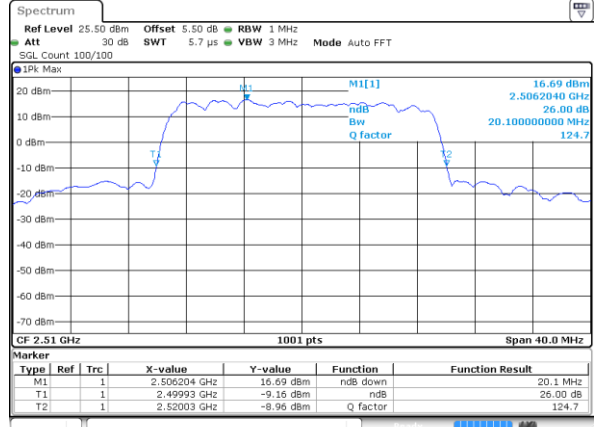
LTE Band 7

Lowest Channel / 15MHz / 64QAM



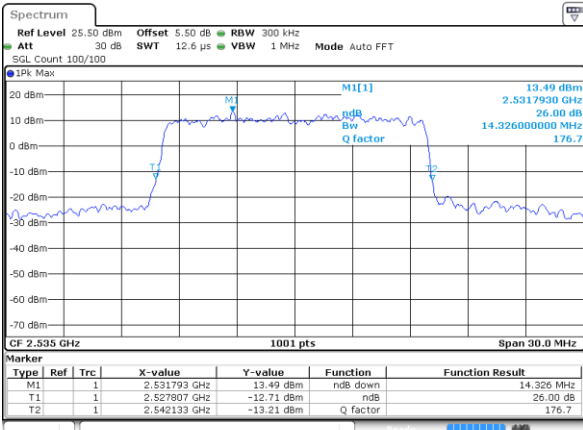
Date: 26 DEC 2018 15:18:49

Lowest Channel / 20MHz / 64QAM



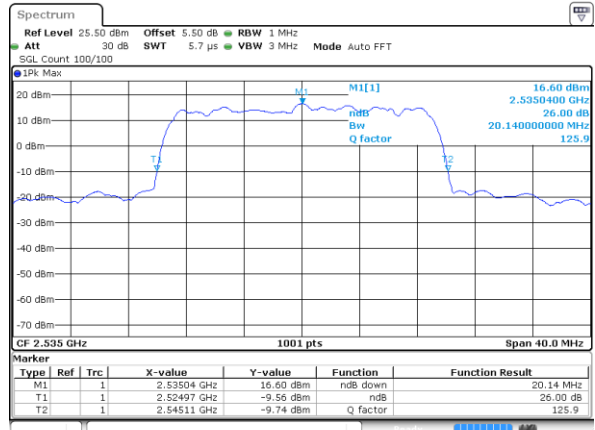
Date: 26 DEC 2018 15:24:44

Middle Channel / 15MHz / 64QAM



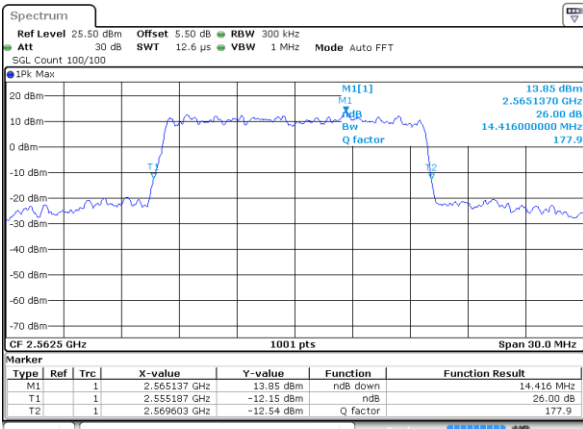
Date: 26 DEC 2018 15:18:59

Middle Channel / 20MHz / 64QAM



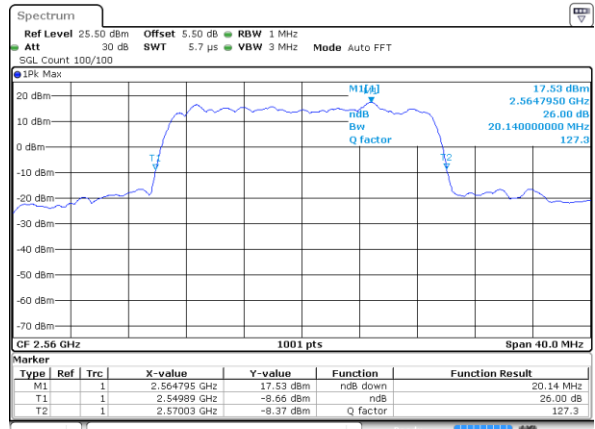
Date: 26 DEC 2018 15:24:54

Highest Channel / 15MHz / 64QAM



Date: 26 DEC 2018 15:19:09

Highest Channel / 20MHz / 64QAM



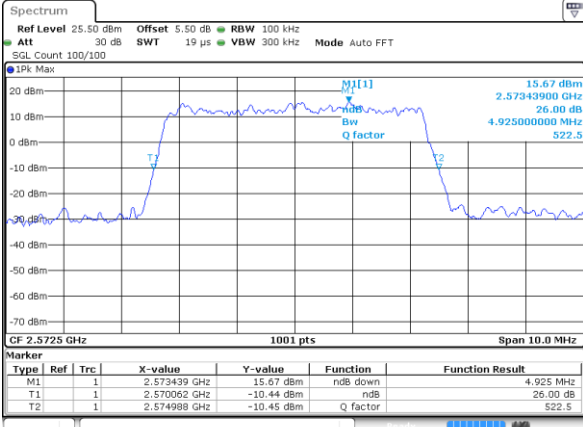
Date: 26 DEC 2018 15:25:04





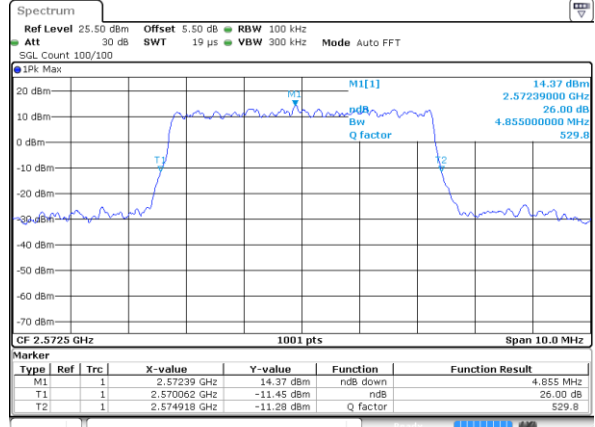
LTE Band 38

Lowest Channel / 5MHz / QPSK



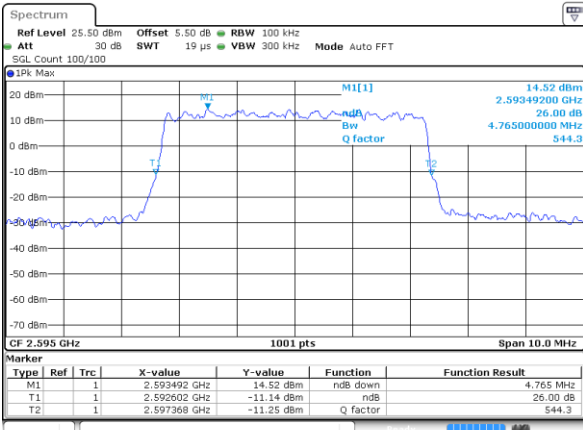
Date: 28 DEC 2018 10:41:40

Lowest Channel / 5MHz / 16QAM



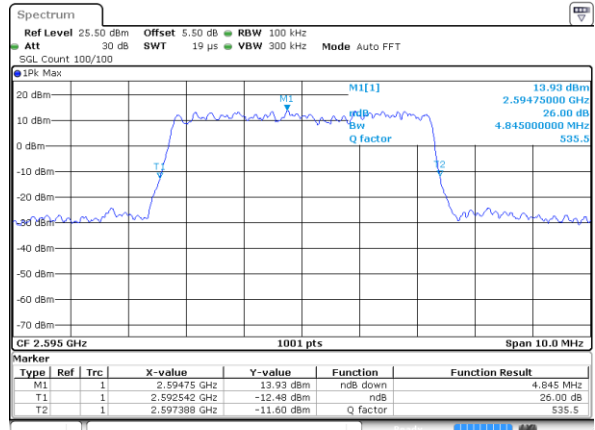
Date: 28 DEC 2018 10:41:50

Middle Channel / 5MHz / QPSK



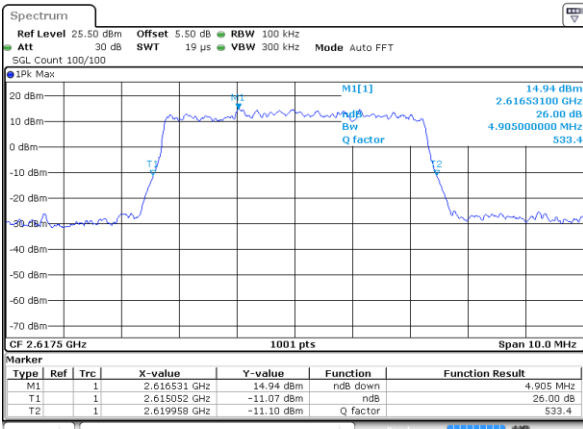
Date: 28 DEC 2018 11:00:25

Middle Channel / 5MHz / 16QAM



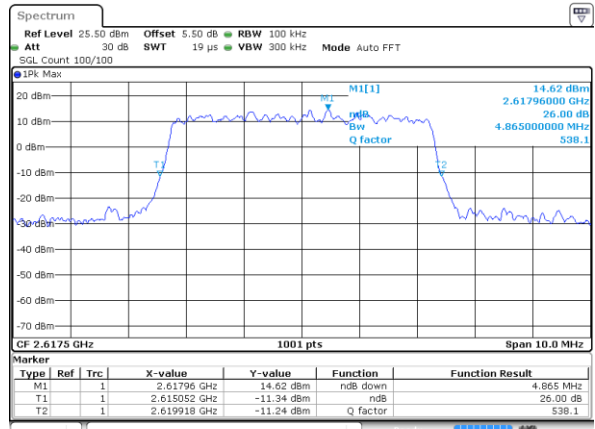
Date: 28 DEC 2018 10:42:30

Highest Channel / 5MHz / QPSK



Date: 28 DEC 2018 11:00:43

Highest Channel / 5MHz / 16QAM

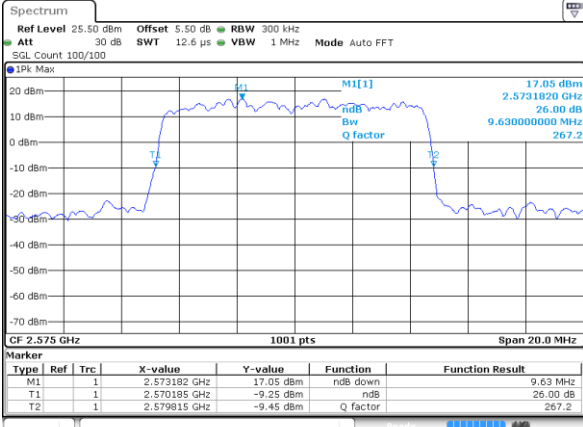


Date: 28 DEC 2018 10:43:10



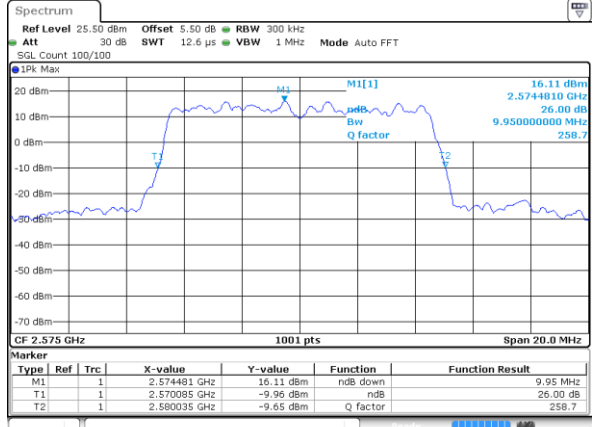
LTE Band 38

Lowest Channel / 10MHz / QPSK



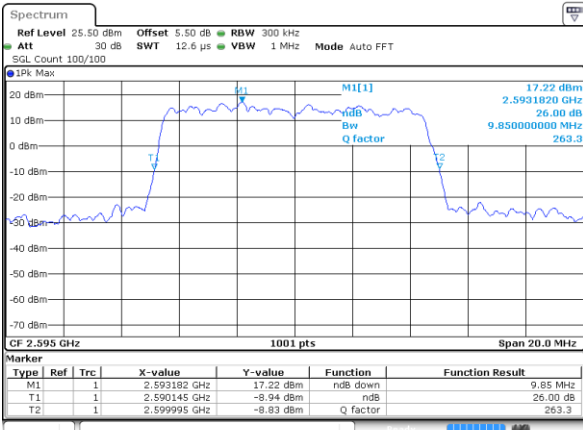
Date: 28 DEC 2018 10:43:39

Lowest Channel / 10MHz / 16QAM



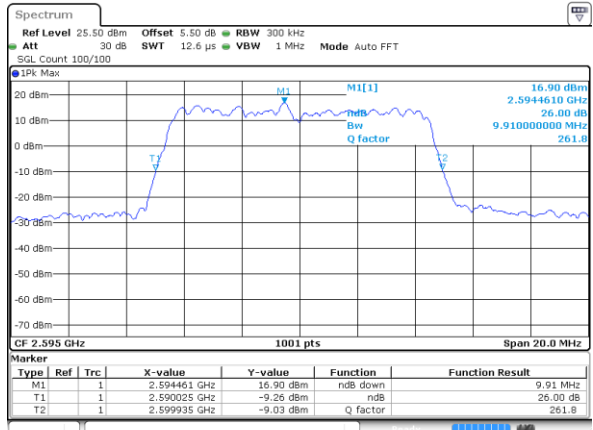
Date: 28 DEC 2018 11:01:24

Middle Channel / 10MHz / QPSK



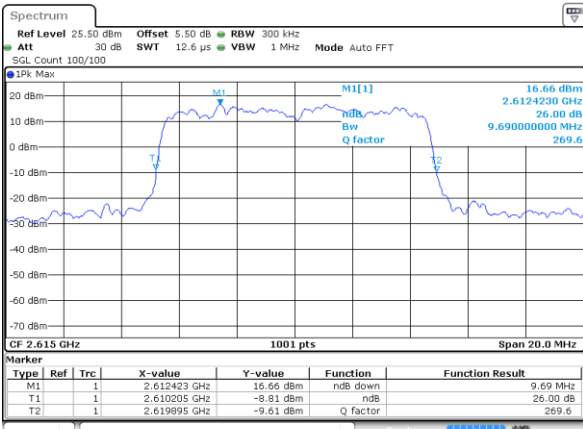
Date: 28 DEC 2018 10:44:20

Middle Channel / 10MHz / 16QAM



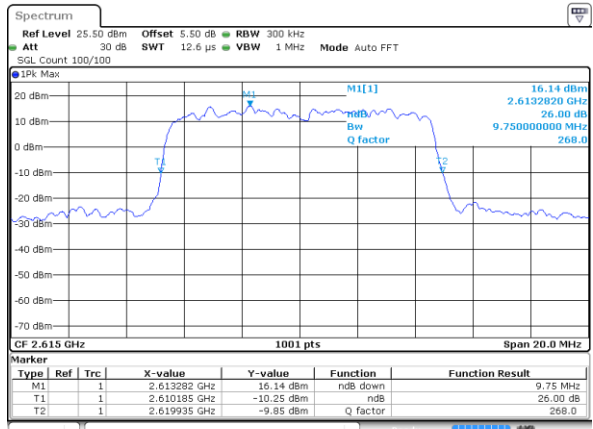
Date: 28 DEC 2018 10:44:30

Highest Channel / 10MHz / QPSK



Date: 28 DEC 2018 10:45:00

Highest Channel / 10MHz / 16QAM

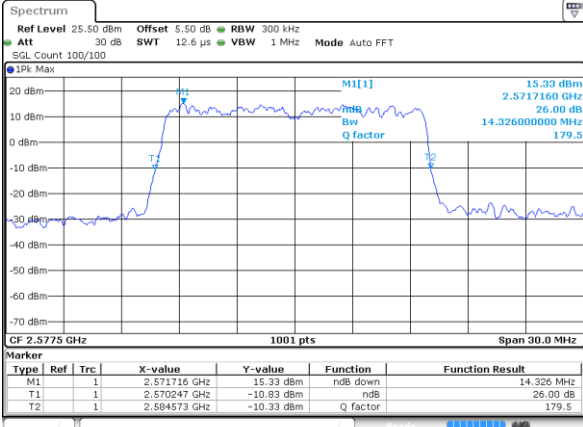


Date: 28 DEC 2018 10:45:10



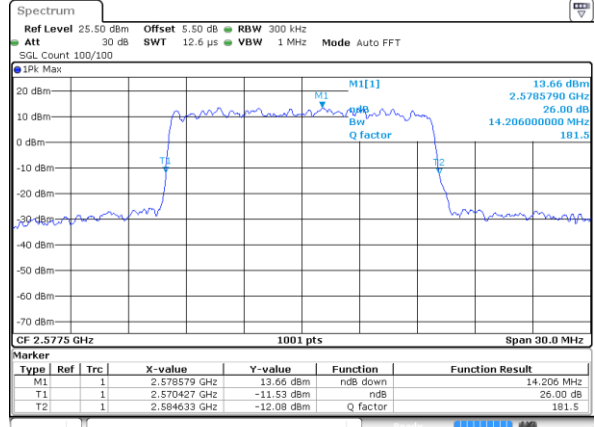
LTE Band 38

Lowest Channel / 15MHz / QPSK



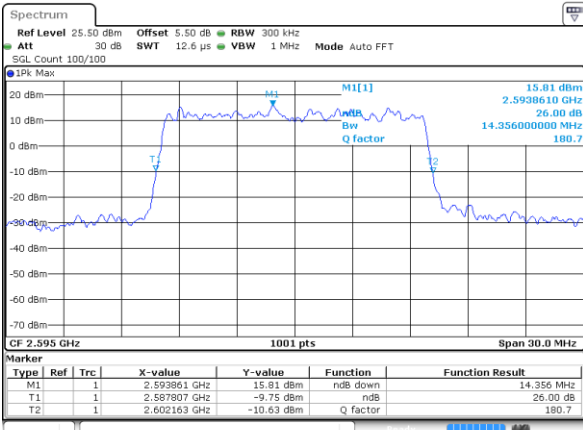
Date: 28 DEC 2018 10:45:40

Lowest Channel / 15MHz / 16QAM



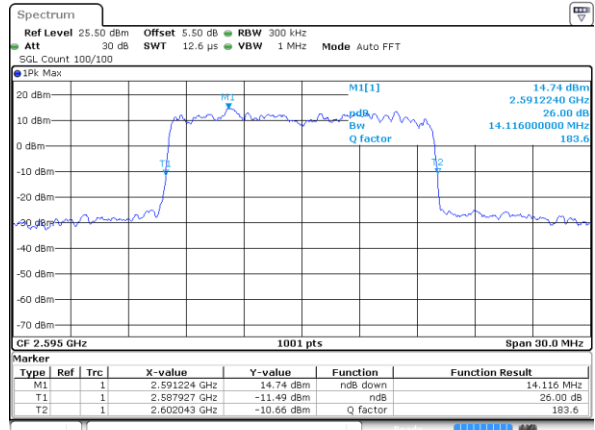
Date: 28 DEC 2018 10:45:50

Middle Channel / 15MHz / QPSK



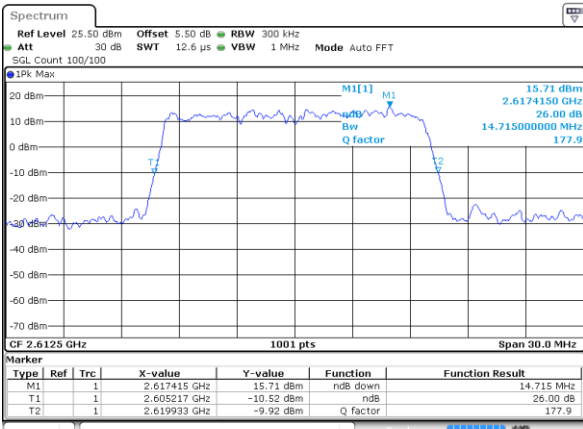
Date: 28 DEC 2018 10:46:21

Middle Channel / 15MHz / 16QAM



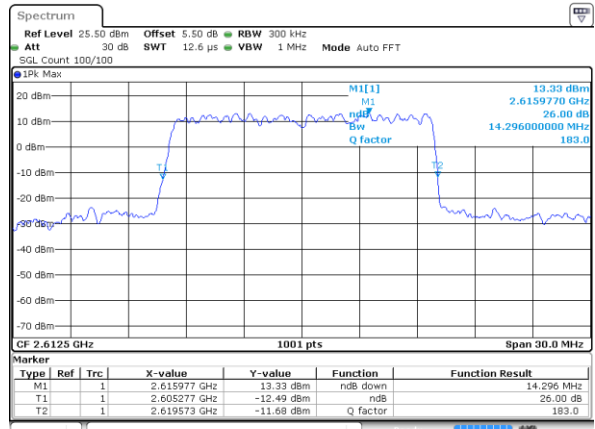
Date: 28 DEC 2018 10:46:31

Highest Channel / 15MHz / QPSK



Date: 28 DEC 2018 10:47:01

Highest Channel / 15MHz / 16QAM

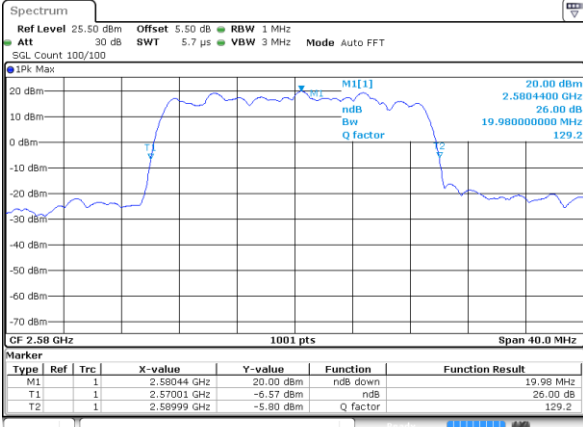


Date: 28 DEC 2018 10:47:11



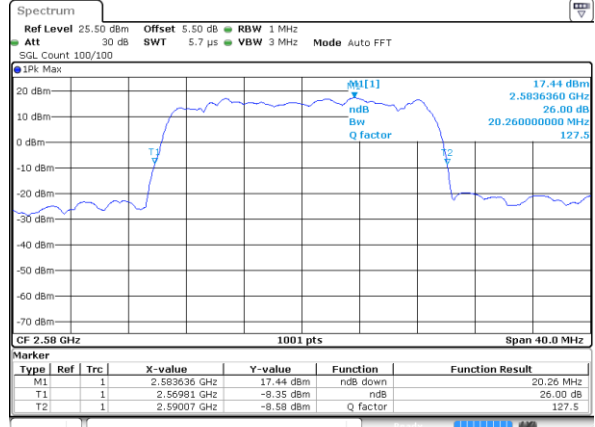
LTE Band 38

Lowest Channel / 20MHz / QPSK



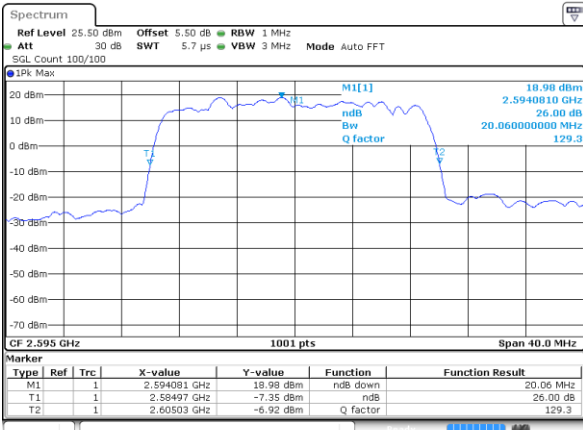
Date: 28 DEC 2018 10:47:42

Lowest Channel / 20MHz / 16QAM



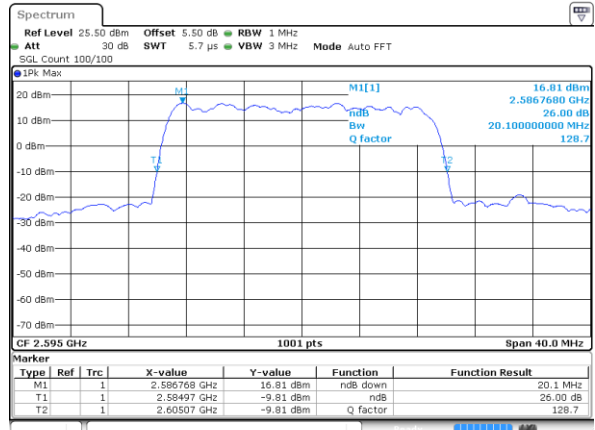
Date: 28 DEC 2018 10:47:52

Middle Channel / 20MHz / QPSK



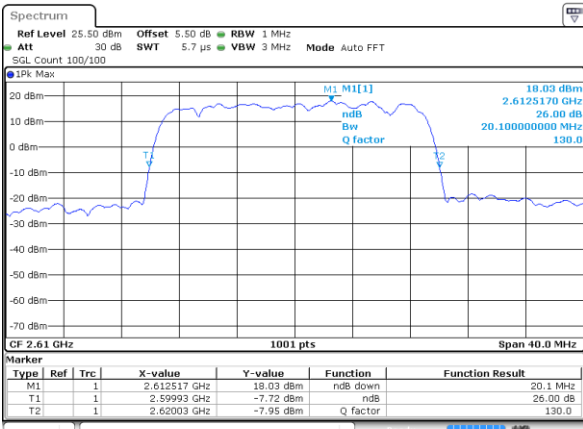
Date: 28 DEC 2018 10:48:22

Middle Channel / 20MHz / 16QAM



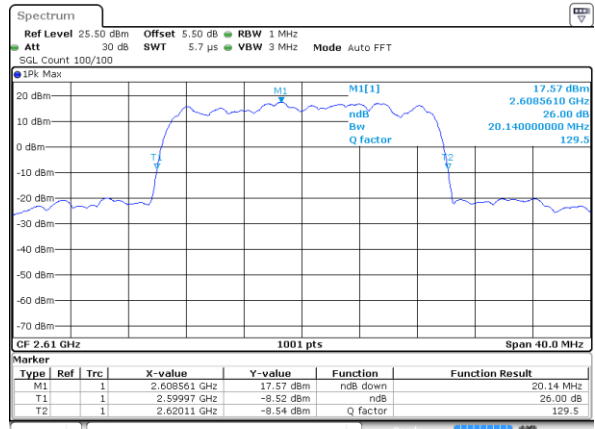
Date: 28 DEC 2018 10:48:32

Highest Channel / 20MHz / QPSK



Date: 28 DEC 2018 10:49:02

Highest Channel / 20MHz / 16QAM

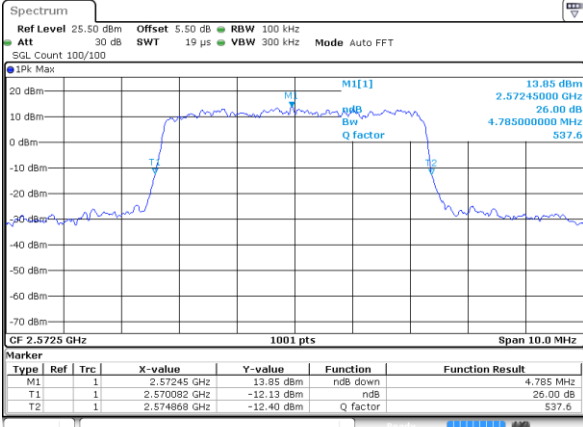


Date: 28 DEC 2018 10:49:12



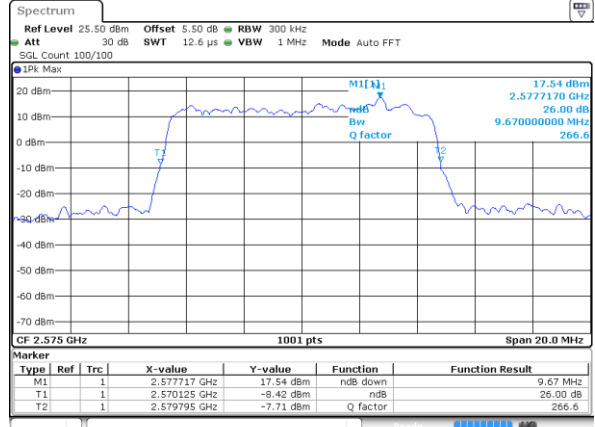
LTE Band 38

Lowest Channel / 5MHz / 64QAM



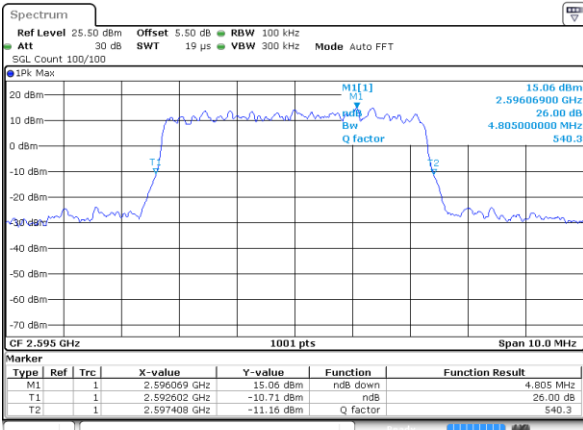
Date: 28 DEC 2018 10:49:33

Lowest Channel / 10MHz / 64QAM



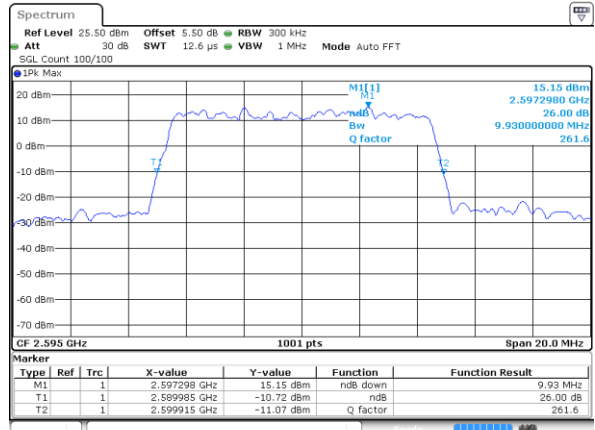
Date: 28 DEC 2018 10:50:33

Middle Channel / 5MHz / 64QAM



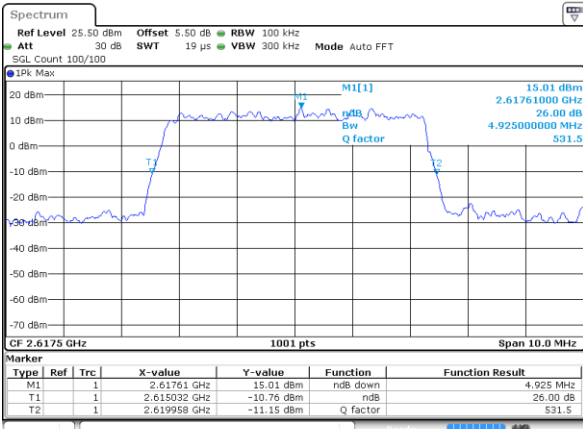
Date: 28 DEC 2018 10:49:53

Middle Channel / 10MHz / 64QAM



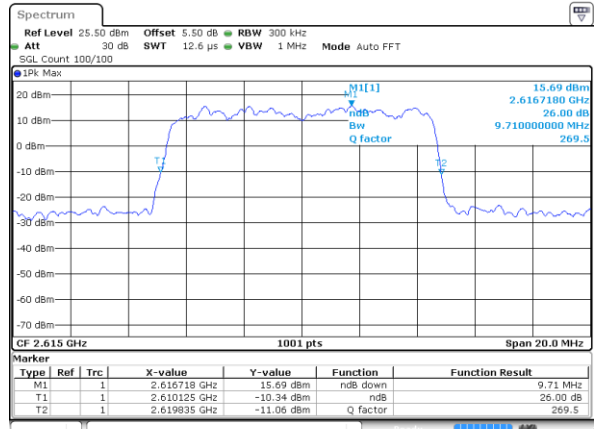
Date: 28 DEC 2018 11:01:42

Highest Channel / 5MHz / 64QAM



Date: 28 DEC 2018 10:50:13

Highest Channel / 10MHz / 64QAM

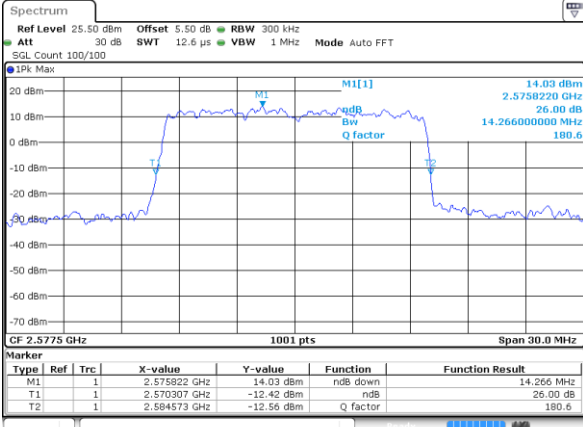


Date: 28 DEC 2018 10:51:13



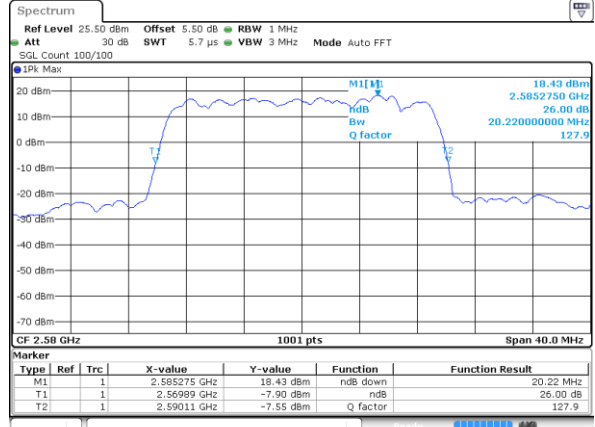
LTE Band 38

Lowest Channel / 15MHz / 64QAM



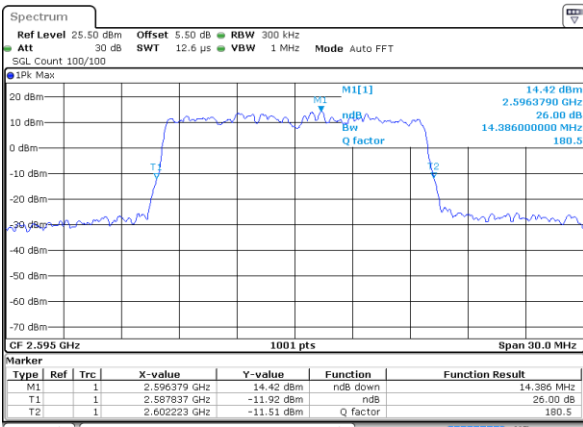
Date: 28 DEC 2018 10:51:34

Lowest Channel / 20MHz / 64QAM



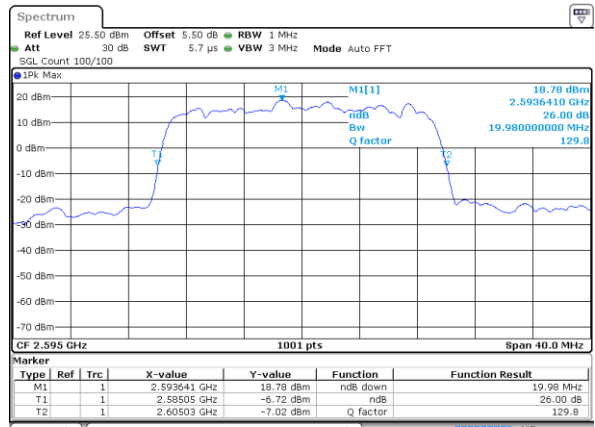
Date: 28 DEC 2018 10:52:34

Middle Channel / 15MHz / 64QAM



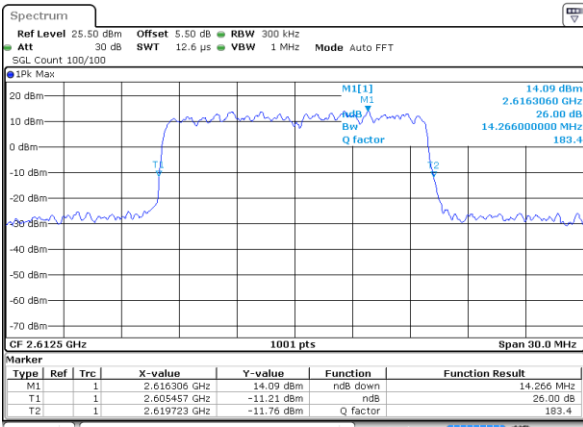
Date: 28 DEC 2018 10:51:54

Middle Channel / 20MHz / 64QAM



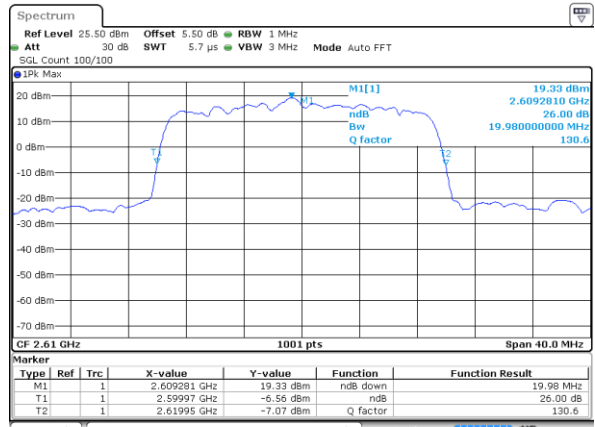
Date: 28 DEC 2018 10:52:54

Highest Channel / 15MHz / 64QAM



Date: 28 DEC 2018 10:52:14

Highest Channel / 20MHz / 64QAM



Date: 28 DEC 2018 10:53:15



**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	1.09	1.09	2.72	2.72	4.48	4.49	9.03	8.95	13.40	13.40	18.22	18.38
Middle CH	1.09	1.10	2.72	2.72	4.48	4.48	8.95	8.97	13.37	13.37	18.14	18.42
Highest CH	1.10	1.10	2.72	2.73	4.49	4.47	9.01	8.97	13.37	13.34	18.18	18.30
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.70		4.48		9.01		13.40		18.38	
Middle CH	1.09		2.72		4.50		8.97		13.40		18.34	
Highest CH	1.09		2.71		4.50		9.01		13.37		18.22	

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	1.10	1.09	2.72	2.73	4.48	4.49	8.99	9.01	13.46	13.40	18.18	18.22
Middle CH	1.09	1.09	2.71	2.73	4.49	4.48	8.99	8.91	13.40	13.43	18.46	18.38
Highest CH	1.09	1.09	2.73	2.72	4.49	4.50	8.99	8.95	13.37	13.34	18.06	18.22
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.50		9.03		13.37		18.30	
Middle CH	1.09		2.73		4.51		9.03		13.43		18.30	
Highest CH	1.09		2.73		4.50		9.01		13.34		18.54	

Mode	LTE Band 5 : 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	1.09	1.09	2.70	2.72	4.49	4.51	8.99	8.99				
Middle CH	1.09	1.09	2.73	2.73	4.49	4.48	8.97	8.99				
Highest CH	1.10	1.10	2.72	2.73	4.49	4.48	9.05	9.01				
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.70		4.48		8.99					
Middle CH	1.09		2.72		4.51		8.99					
Highest CH	1.09		2.72		4.50		8.99					



Mode	LTE Band 7 : 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					4.50	4.49	9.05	9.07	13.46	13.46	18.22	18.30
Middle CH					4.52	4.50	9.07	8.99	13.37	13.43	18.42	18.46
Highest CH					4.51	4.48	9.09	9.01	13.40	13.43	18.42	18.46
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.49		9.01		13.46		18.18	
Middle CH					4.50		8.99		13.43		18.30	
Highest CH					4.49		9.01		13.43		18.30	

Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.47	4.47	8.91	9.03	13.43	13.46	18.18	18.30
Middle CH					4.46	4.51	9.03	8.97	13.37	13.34	18.26	18.38
Highest CH					4.49	4.46	9.03	8.95	13.40	13.34	18.30	18.38
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.47		8.95		13.46		18.34	
Middle CH					4.47		9.03		13.40		18.34	
Highest CH					4.44		8.95		13.40		18.42	



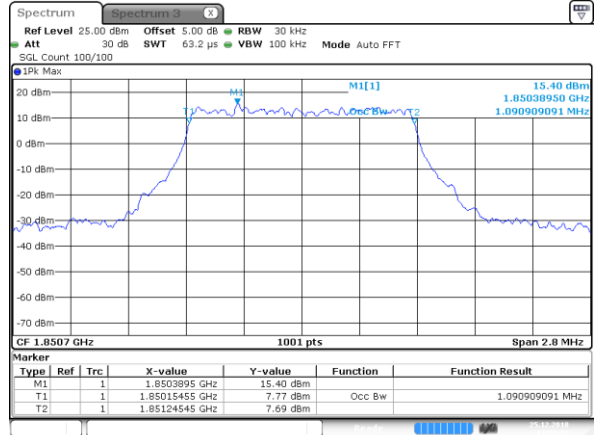


LTE Band 2

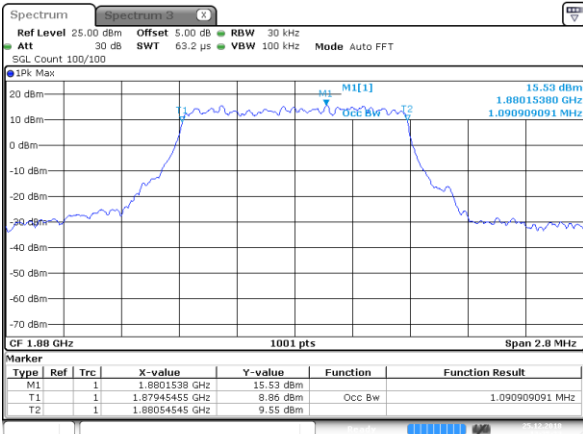
Lowest Channel / 1.4MHz / QPSK



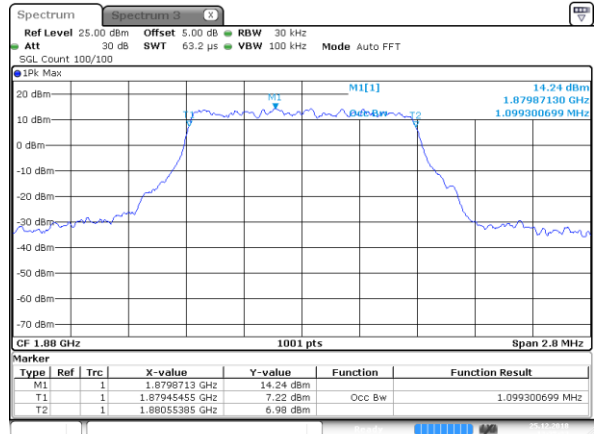
Lowest Channel / 1.4MHz / 16QAM



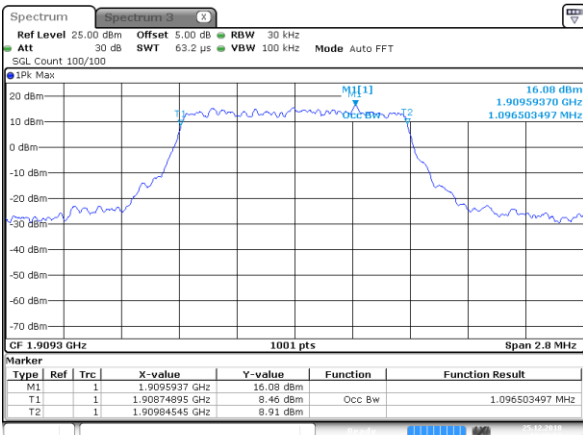
Middle Channel / 1.4MHz / QPSK



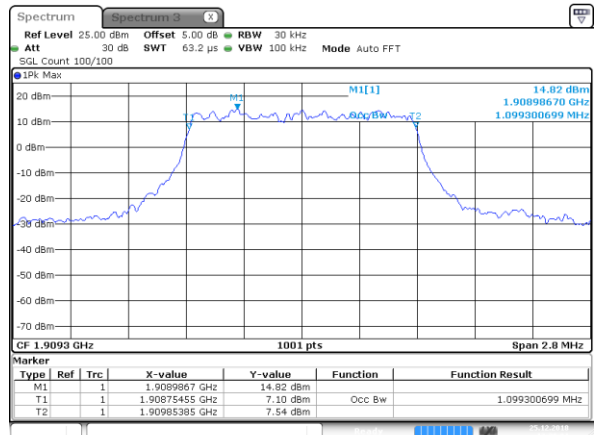
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



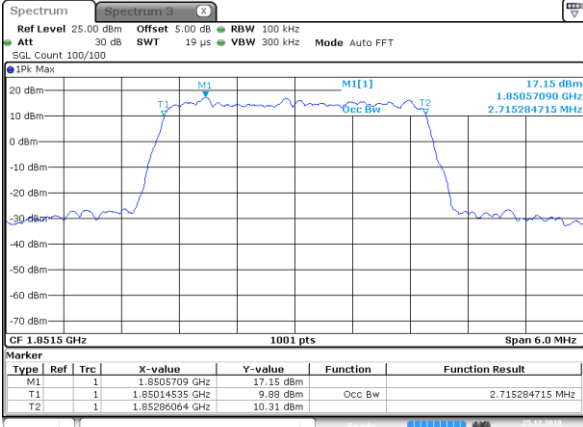
Highest Channel / 1.4MHz / 16QAM





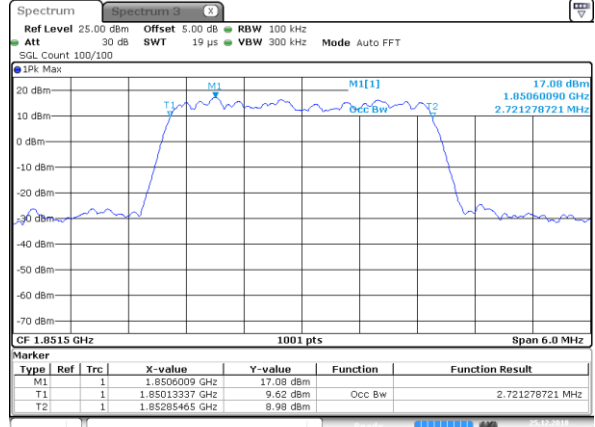
LTE Band 2

Lowest Channel / 3MHz / QPSK



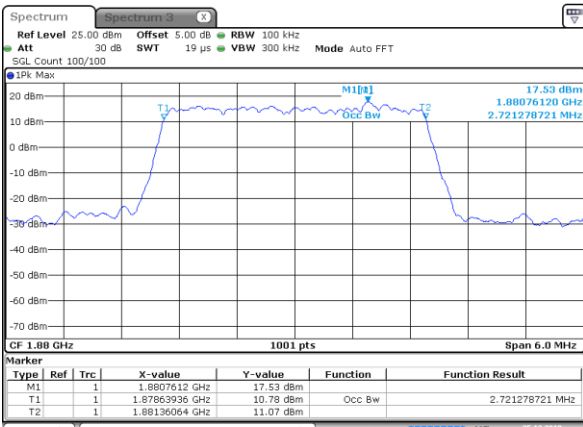
Date: 25 DEC 2018 13:44:48

Lowest Channel / 3MHz / 16QAM



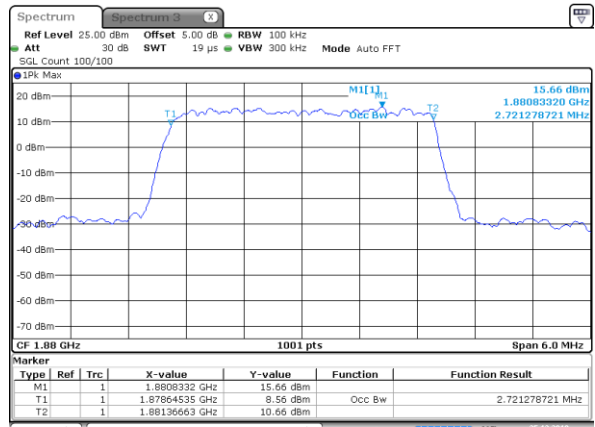
Date: 25 DEC 2018 13:44:58

Middle Channel / 3MHz / QPSK



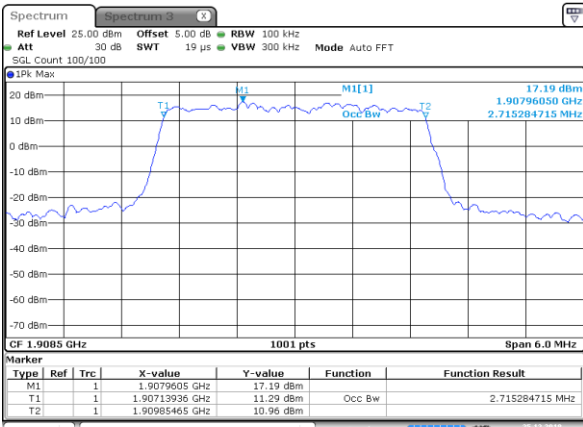
Date: 25 DEC 2018 13:51:44

Middle Channel / 3MHz / 16QAM



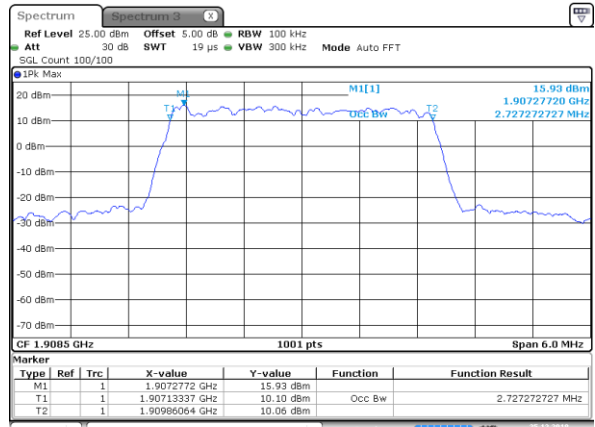
Date: 25 DEC 2018 13:51:54

Highest Channel / 3MHz / QPSK



Date: 25 DEC 2018 13:54:12

Highest Channel / 3MHz / 16QAM

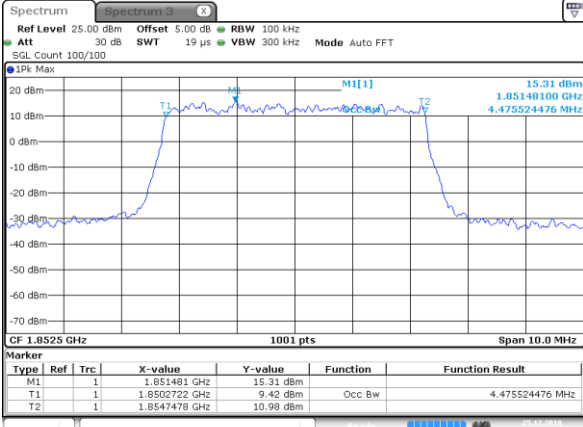


Date: 25 DEC 2018 13:54:23



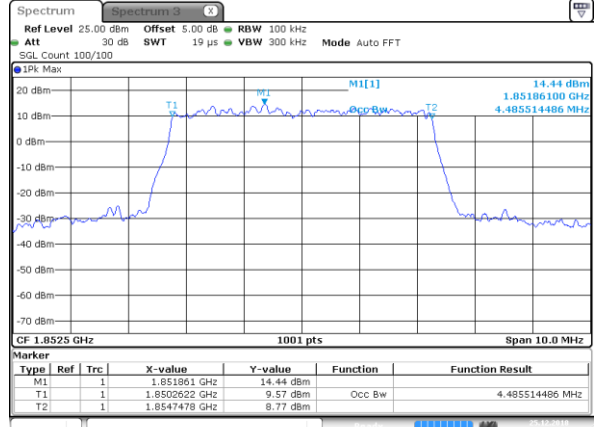
LTE Band 2

Lowest Channel / 5MHz / QPSK



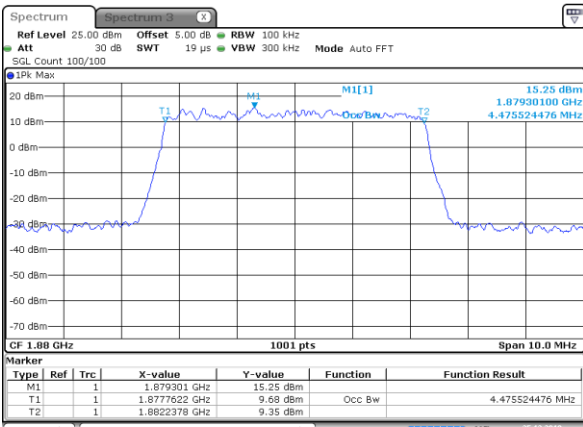
Date: 25 DEC 2018 14:01:09

Lowest Channel / 5MHz / 16QAM



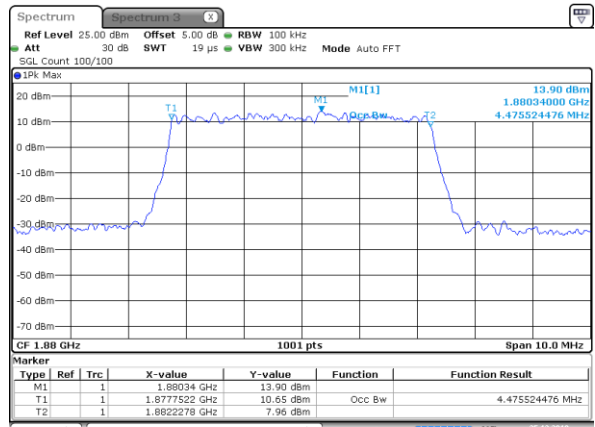
Date: 25 DEC 2018 14:01:19

Middle Channel / 5MHz / QPSK



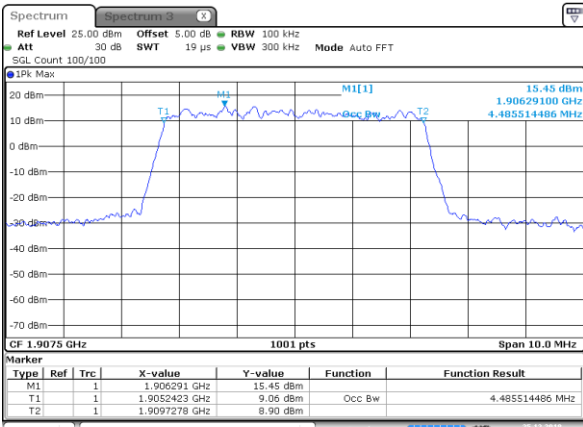
Date: 25 DEC 2018 14:08:05

Middle Channel / 5MHz / 16QAM



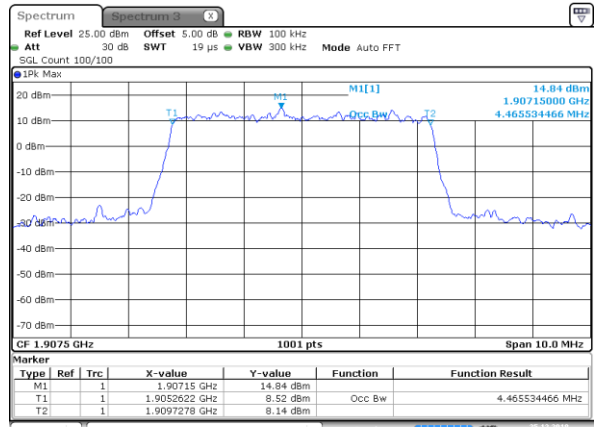
Date: 25 DEC 2018 14:08:16

Highest Channel / 5MHz / QPSK



Date: 25 DEC 2018 14:10:33

Highest Channel / 5MHz / 16QAM

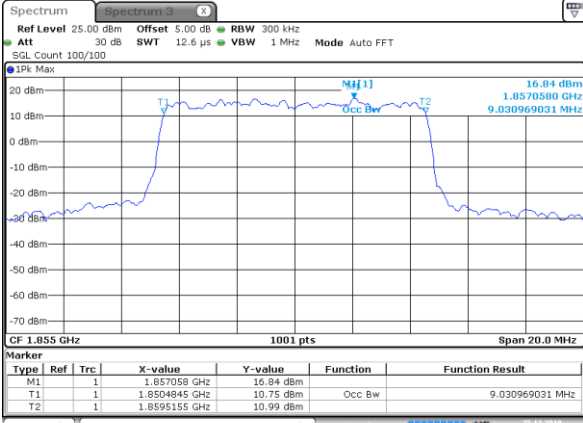


Date: 25 DEC 2018 14:10:43



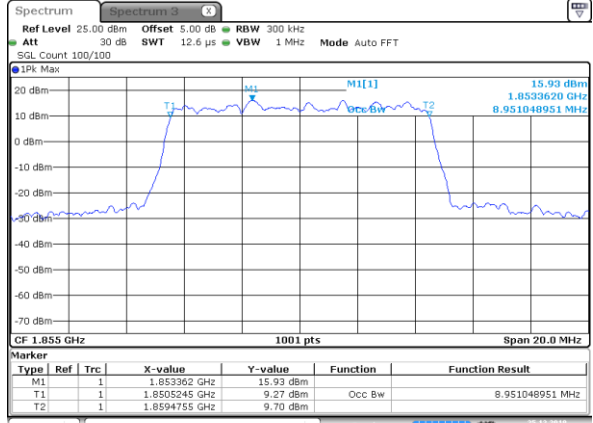
LTE Band 2

Lowest Channel / 10MHz / QPSK



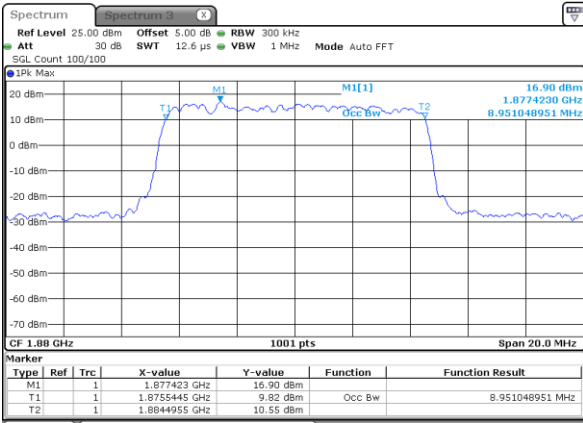
Date: 25 DEC 2018 14:17:30

Lowest Channel / 10MHz / 16QAM



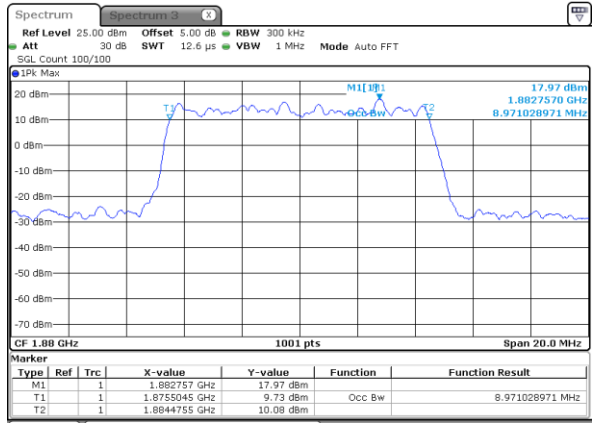
Date: 25 DEC 2018 14:17:40

Middle Channel / 10MHz / QPSK



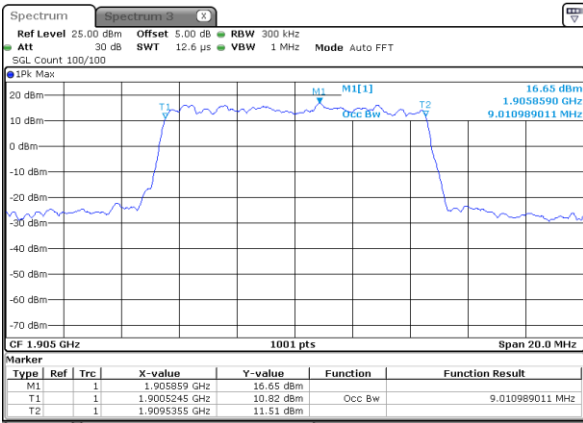
Date: 25 DEC 2018 14:24:26

Middle Channel / 10MHz / 16QAM



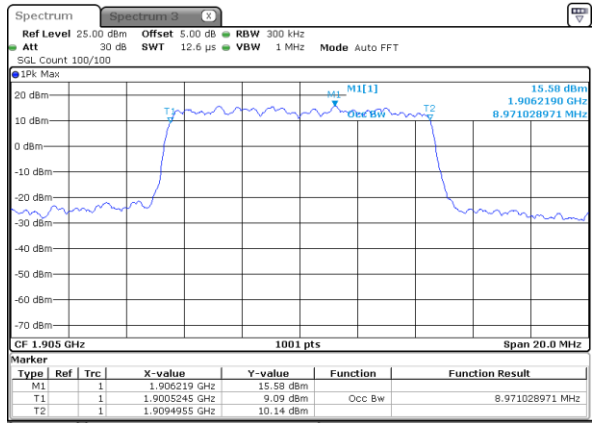
Date: 25 DEC 2018 14:24:36

Highest Channel / 10MHz / QPSK



Date: 25 DEC 2018 14:26:54

Highest Channel / 10MHz / 16QAM

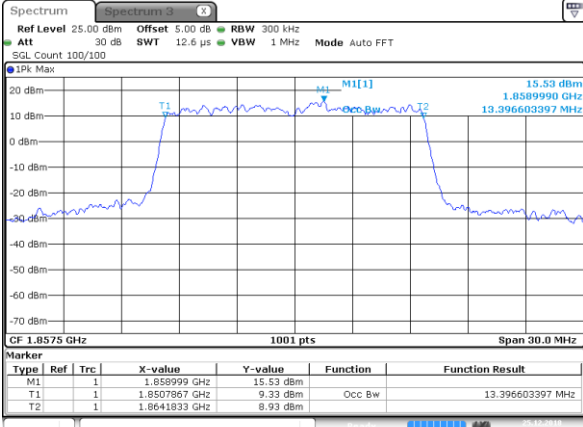


Date: 25 DEC 2018 14:27:05



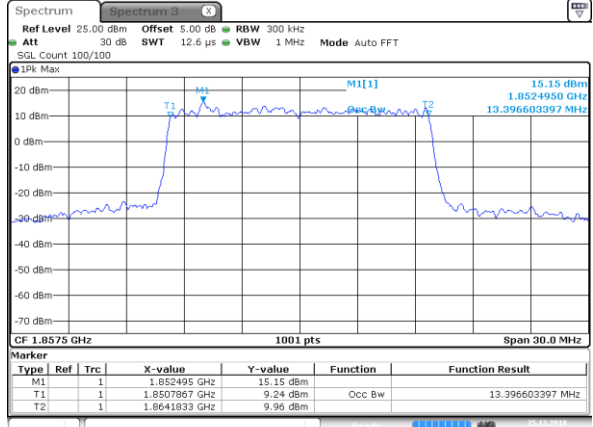
LTE Band 2

Lowest Channel / 15MHz / QPSK



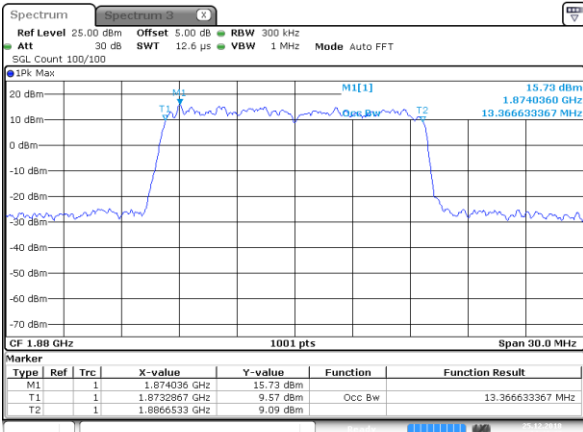
Date: 25 DEC 2018 14:33:51

Lowest Channel / 15MHz / 16QAM



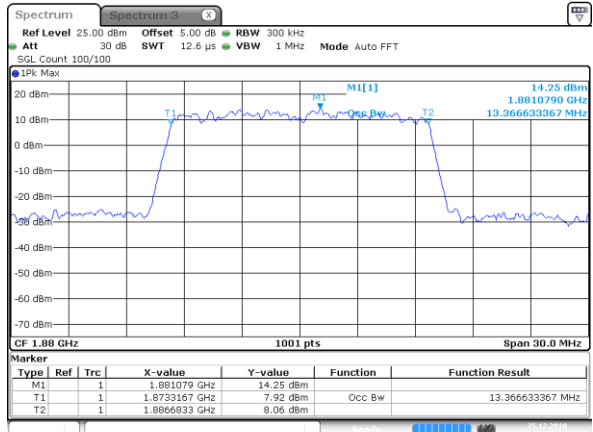
Date: 25 DEC 2018 14:34:01

Middle Channel / 15MHz / QPSK



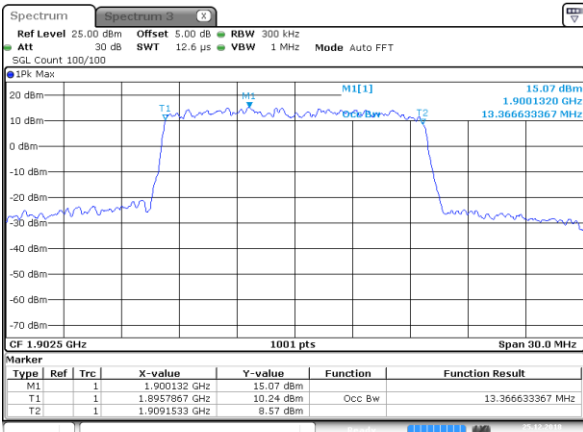
Date: 25 DEC 2018 14:40:47

Middle Channel / 15MHz / 16QAM



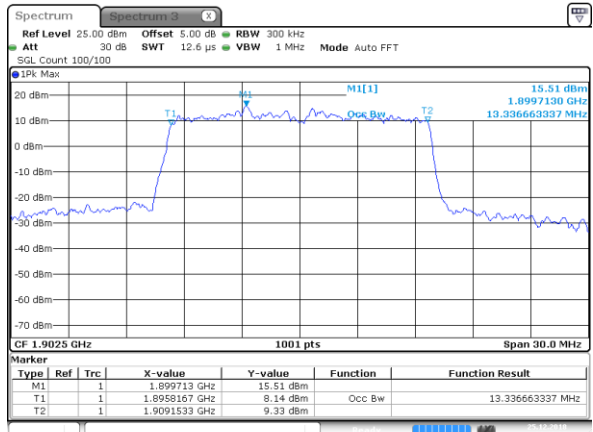
Date: 25 DEC 2018 14:40:58

Highest Channel / 15MHz / QPSK



Date: 25 DEC 2018 14:43:16

Highest Channel / 15MHz / 16QAM

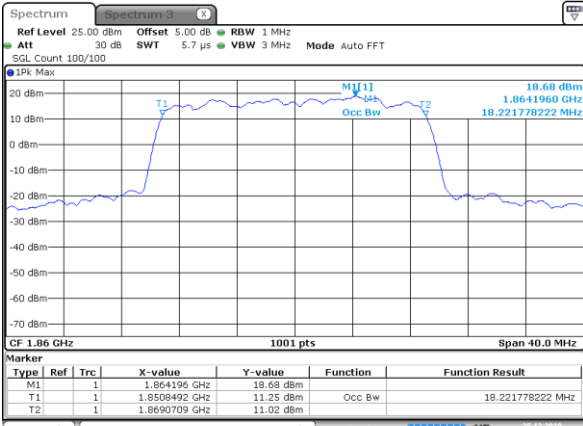


Date: 25 DEC 2018 14:43:26



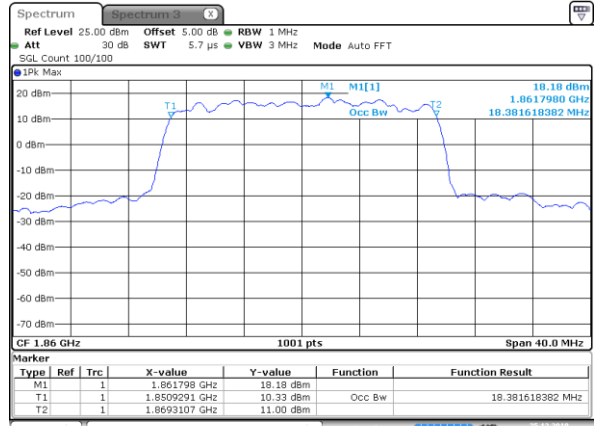
LTE Band 2

Lowest Channel / 20MHz / QPSK



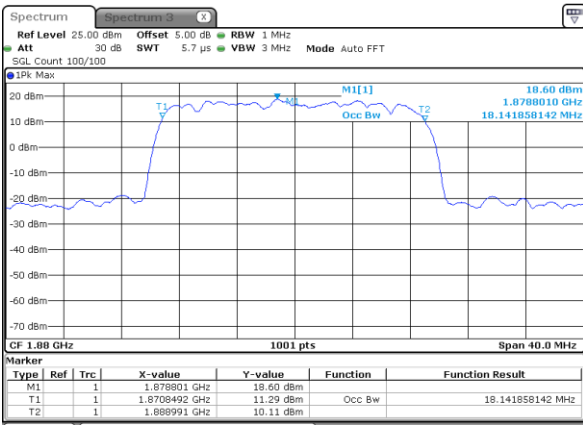
Date: 25 DEC 2018 14:50:12

Lowest Channel / 20MHz / 16QAM



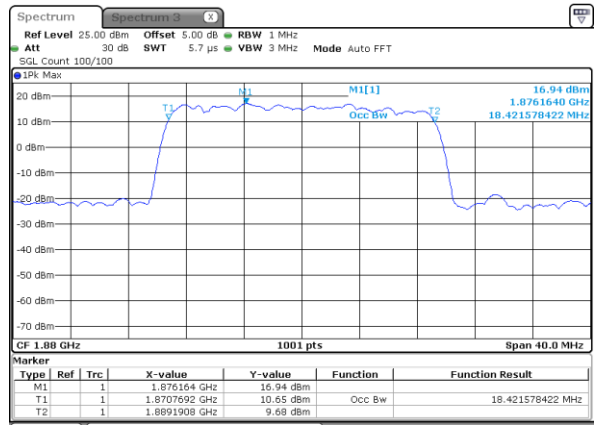
Date: 25 DEC 2018 14:50:22

Middle Channel / 20MHz / QPSK



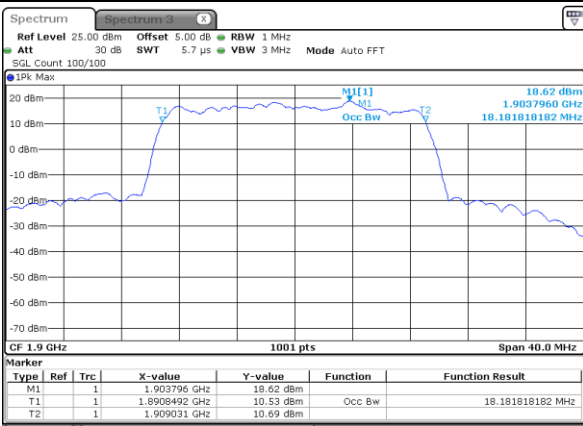
Date: 25 DEC 2018 14:57:09

Middle Channel / 20MHz / 16QAM



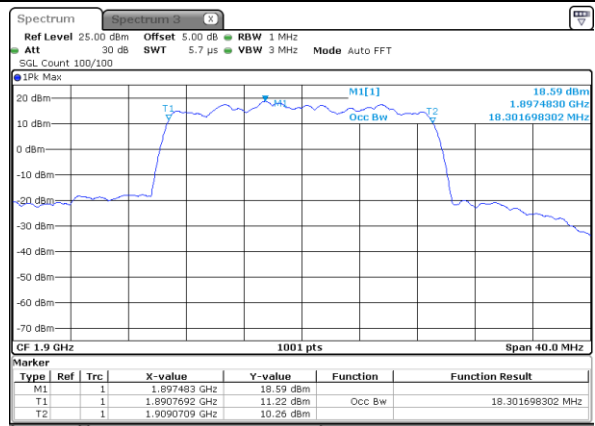
Date: 25 DEC 2018 14:57:19

Highest Channel / 20MHz / QPSK



Date: 25 DEC 2018 14:59:37

Highest Channel / 20MHz / 16QAM

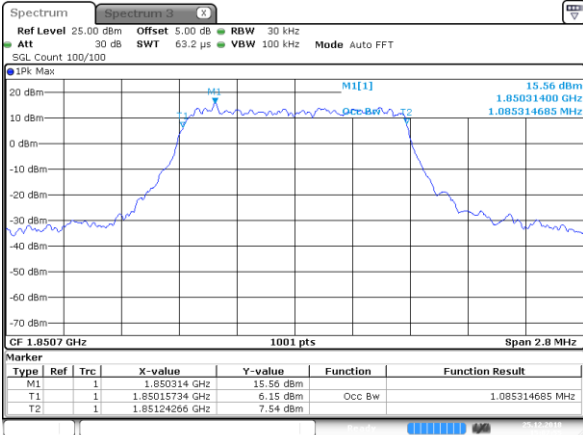


Date: 25 DEC 2018 14:59:47

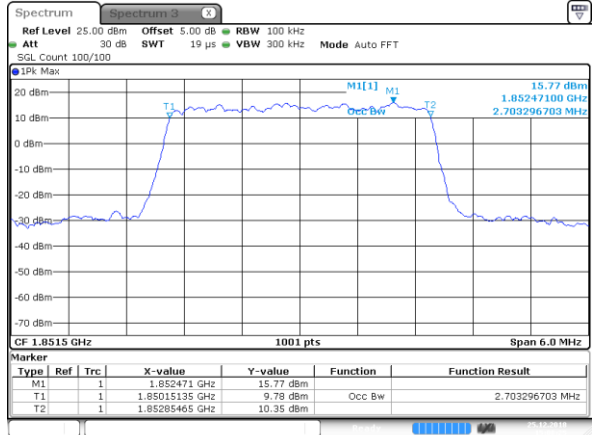


LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



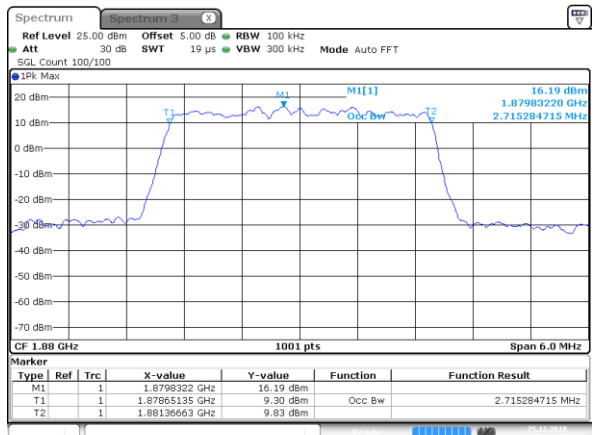
Lowest Channel / 3MHz / 64QAM



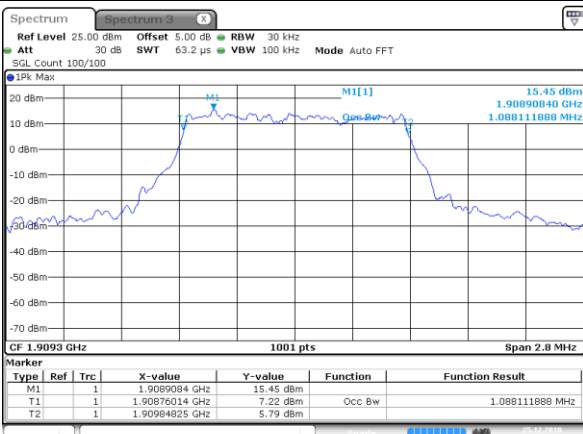
Middle Channel / 1.4MHz / 64QAM



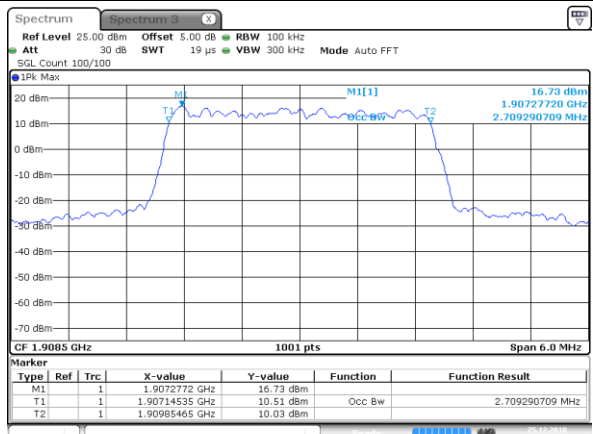
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



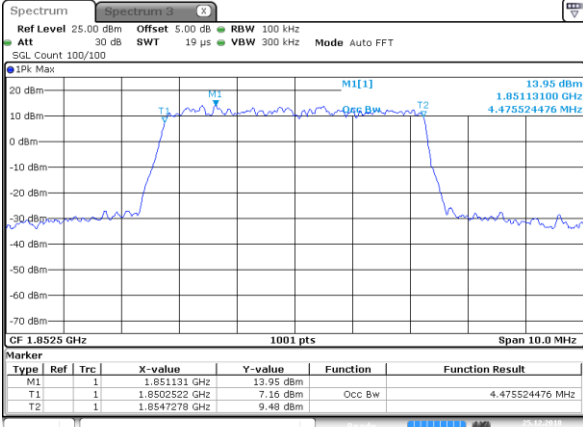
Highest Channel / 3MHz / 64QAM





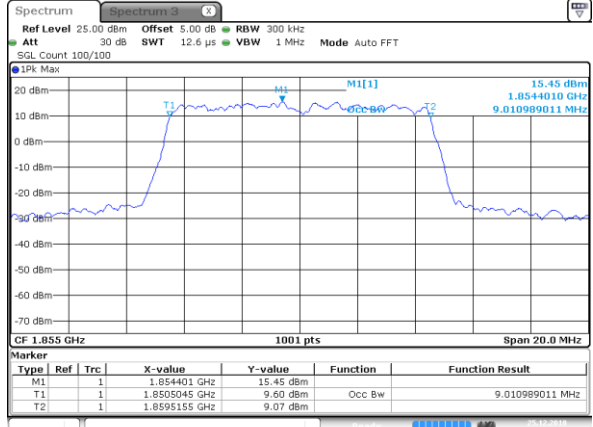
LTE Band 2

Lowest Channel / 5MHz / 64QAM



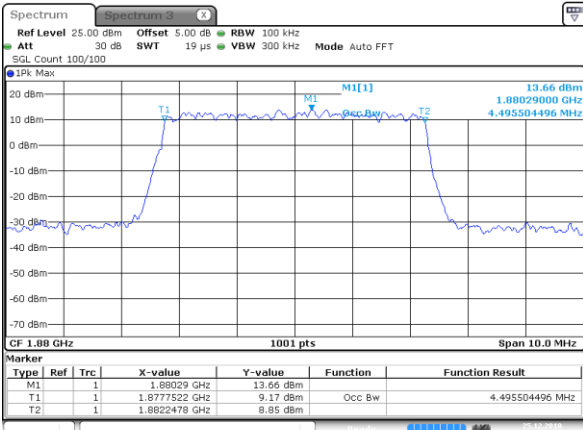
Date: 25 DEC 2018 15:08:55

Lowest Channel / 10MHz / 64QAM



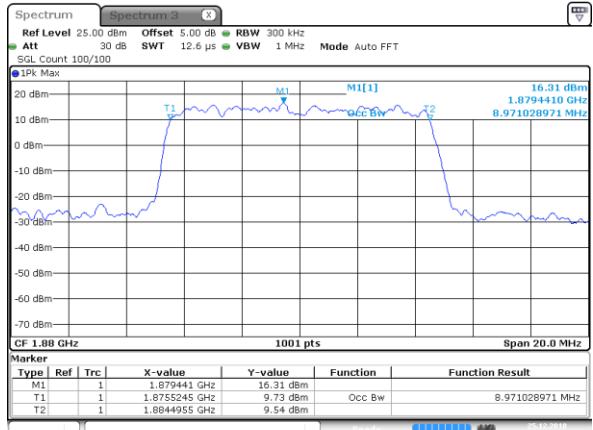
Date: 25 DEC 2018 15:09:26

Middle Channel / 5MHz / 64QAM



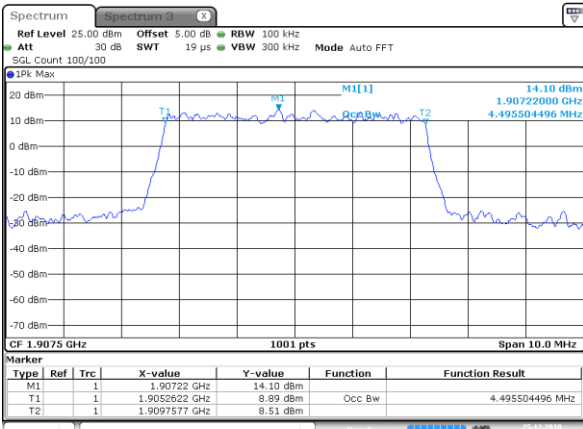
Date: 25 DEC 2018 15:09:06

Middle Channel / 10MHz / 64QAM



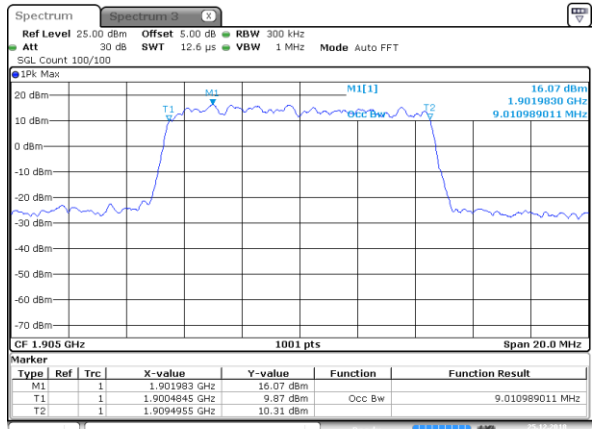
Date: 25 DEC 2018 15:09:36

Highest Channel / 5MHz / 64QAM



Date: 25 DEC 2018 15:09:16

Highest Channel / 10MHz / 64QAM



Date: 25 DEC 2018 15:09:46