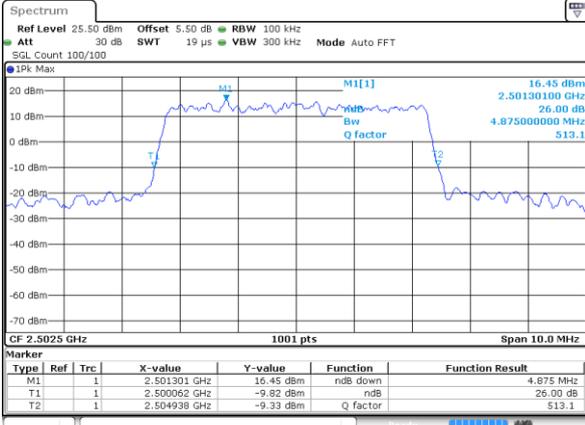




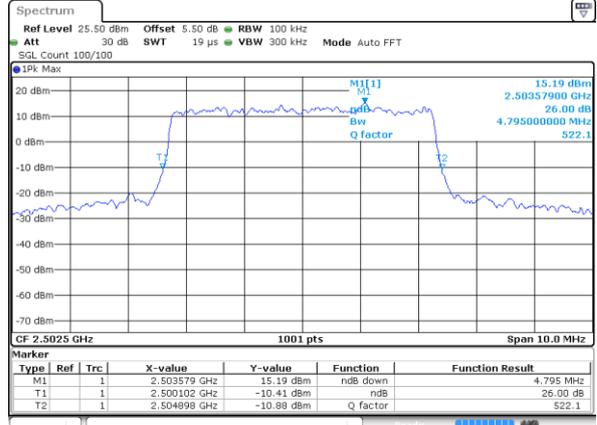
LTE Band 7

Lowest Channel / 5MHz / QPSK



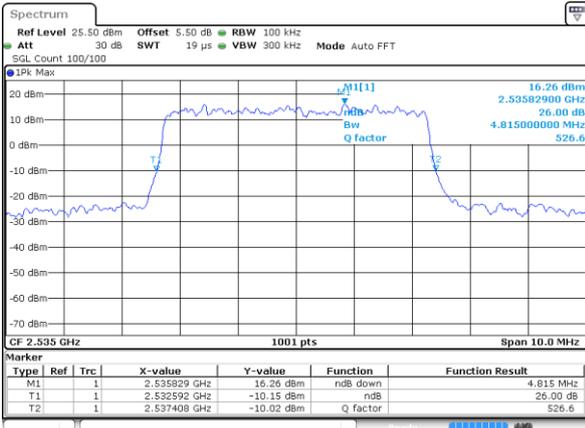
Date: 1 SEP 2019 20:25:32

Lowest Channel / 5MHz / 16QAM



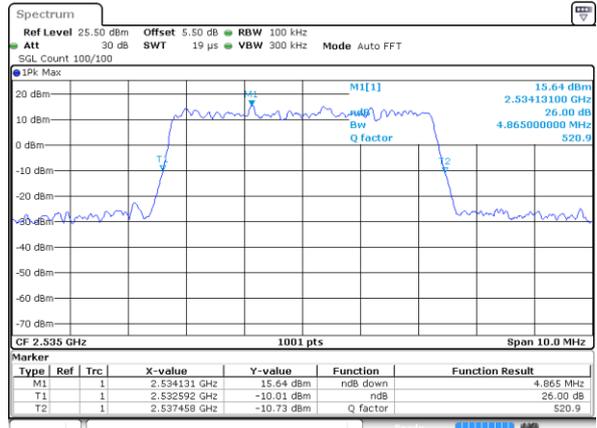
Date: 1 SEP 2019 20:25:52

Middle Channel / 5MHz / QPSK



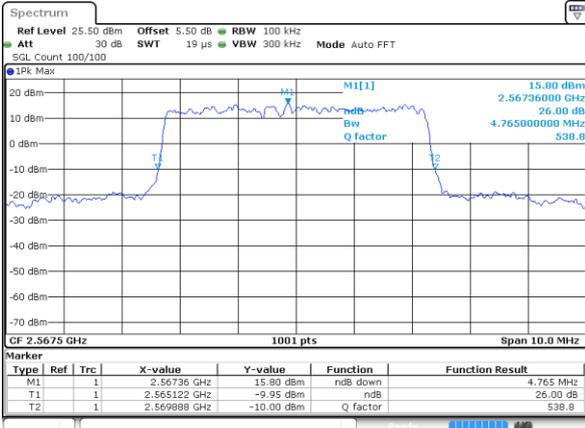
Date: 1 SEP 2019 20:26:32

Middle Channel / 5MHz / 16QAM



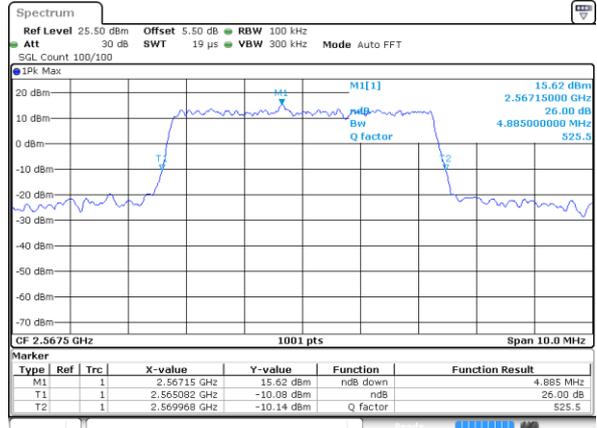
Date: 1 SEP 2019 20:26:12

Highest Channel / 5MHz / QPSK



Date: 1 SEP 2019 20:26:51

Highest Channel / 5MHz / 16QAM

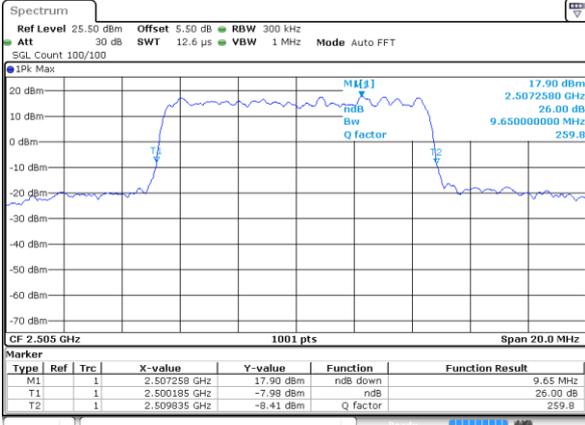


Date: 1 SEP 2019 20:27:11



LTE Band 7

Lowest Channel / 10MHz / QPSK



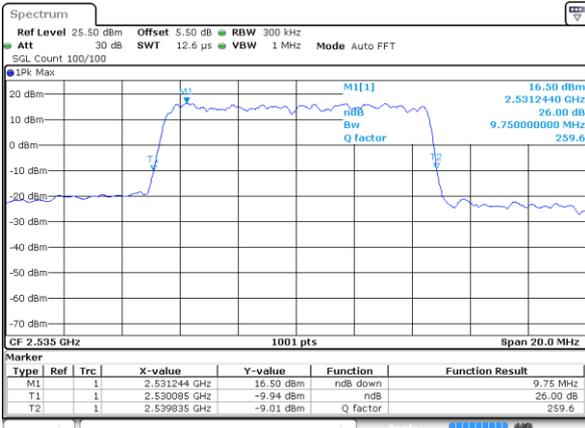
Date: 1 SEP 2019 20:42:01

Lowest Channel / 10MHz / 16QAM



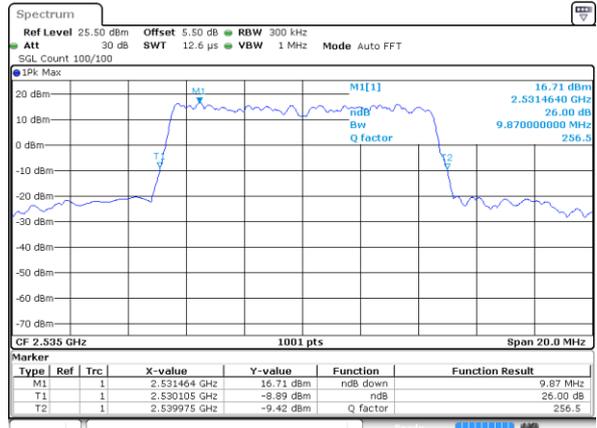
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Middle Channel / 10MHz / QPSK



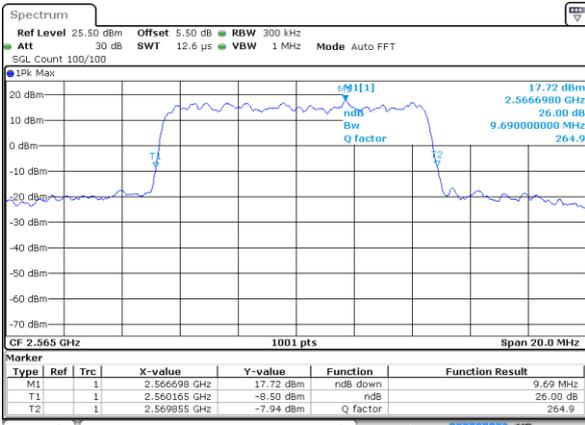
Date: 1 SEP 2019 20:43:00

Middle Channel / 10MHz / 16QAM



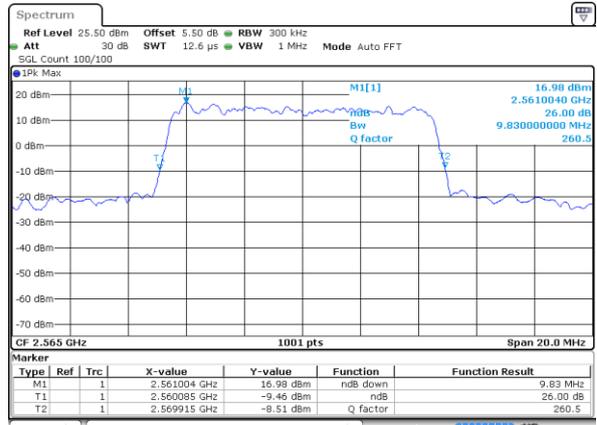
Date: 1 SEP 2019 20:42:40

Highest Channel / 10MHz / QPSK



Date: 1 SEP 2019 20:43:20

Highest Channel / 10MHz / 16QAM

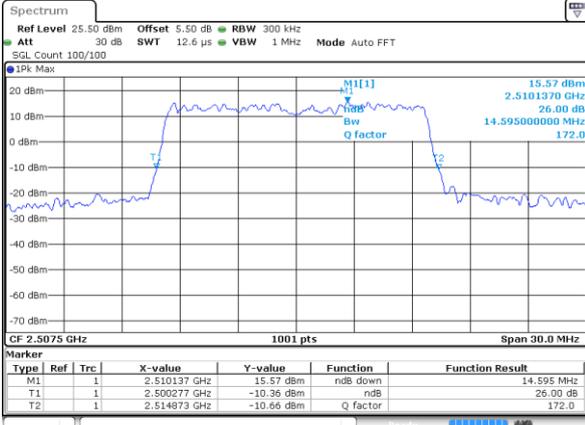


Date: 1 SEP 2019 20:43:40



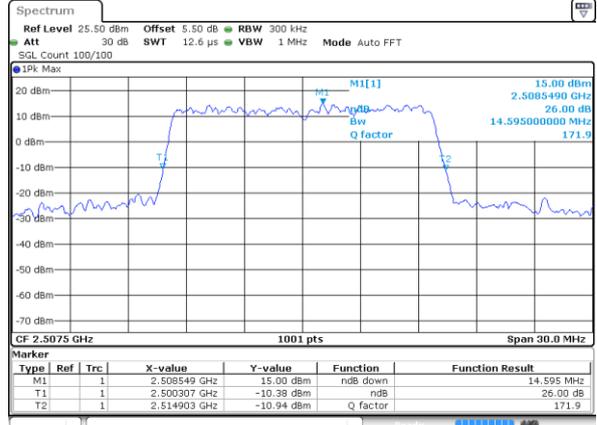
LTE Band 7

Lowest Channel / 15MHz / QPSK



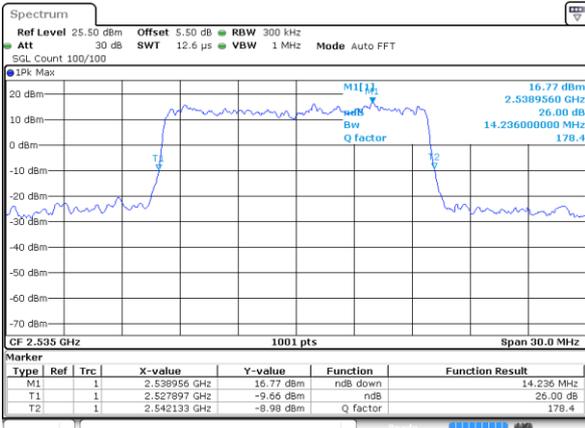
Date: 1 SEP 2019 20:58:47

Lowest Channel / 15MHz / 16QAM



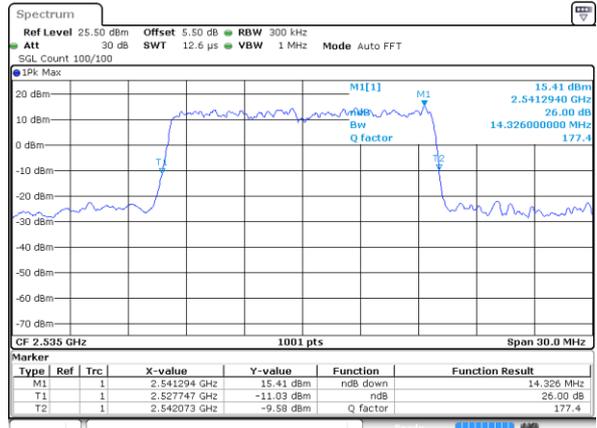
Date: 1 SEP 2019 20:58:27

Middle Channel / 15MHz / QPSK



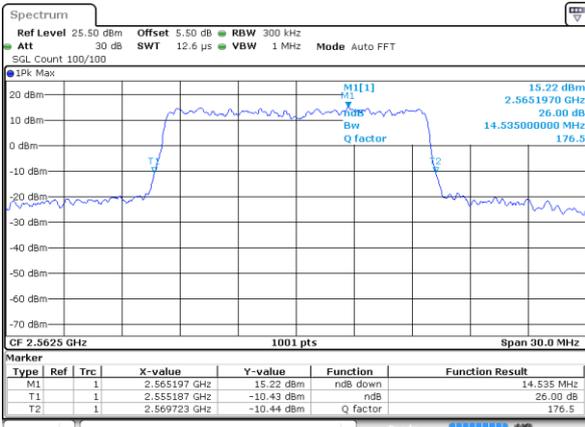
Date: 1 SEP 2019 20:59:07

Middle Channel / 15MHz / 16QAM



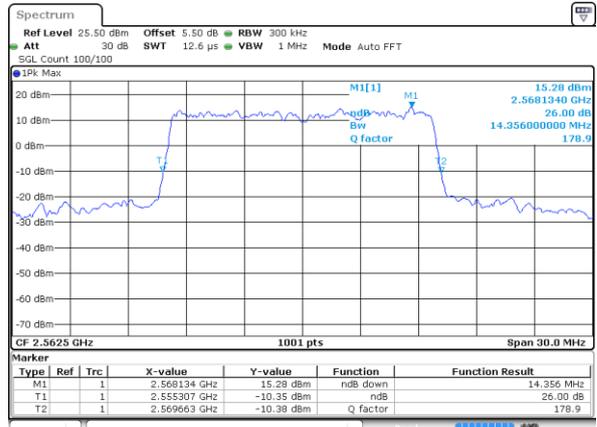
Date: 1 SEP 2019 20:59:27

Highest Channel / 15MHz / QPSK



Date: 1 SEP 2019 21:00:07

Highest Channel / 15MHz / 16QAM

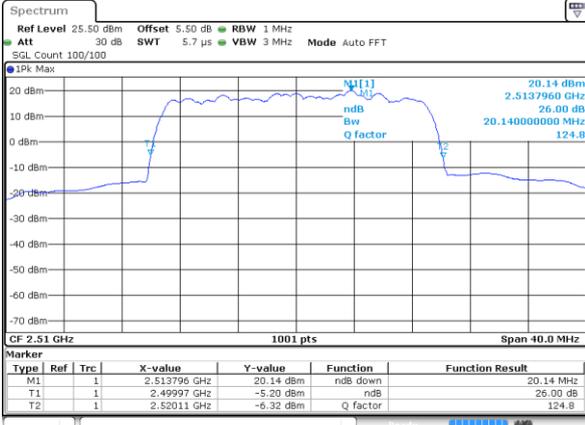


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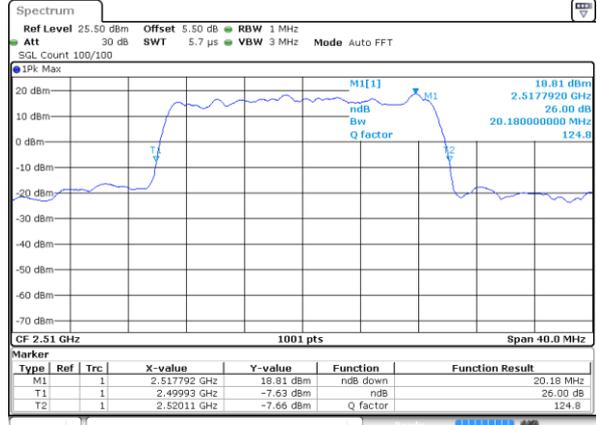
LTE Band 7

Lowest Channel / 20MHz / QPSK



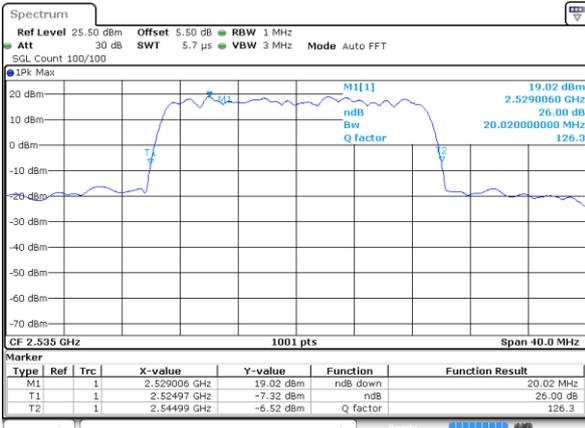
Date: 1 SEP 2019 21:15:15

Lowest Channel / 20MHz / 16QAM



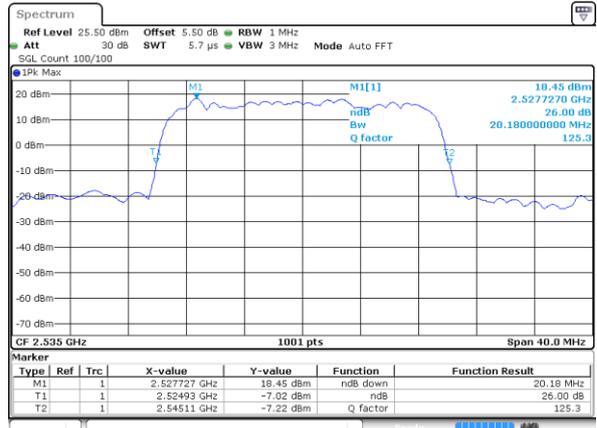
Date: 1 SEP 2019 21:14:55

Middle Channel / 20MHz / QPSK



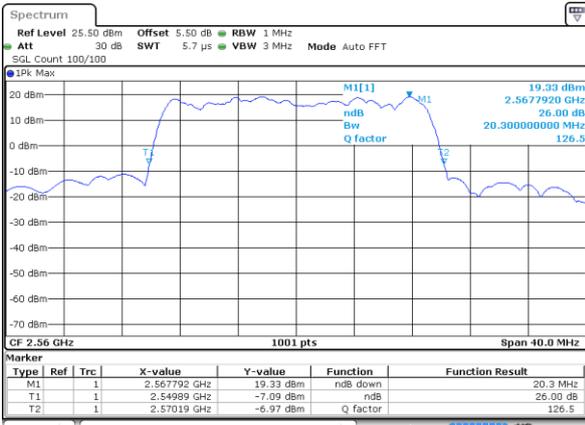
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Middle Channel / 20MHz / 16QAM



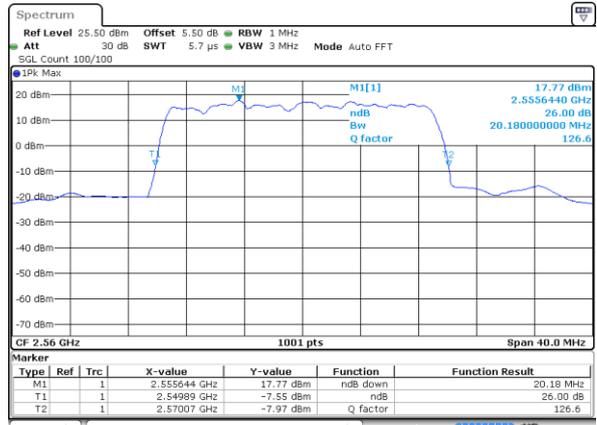
Date: 1 SEP 2019 21:15:55

Highest Channel / 20MHz / QPSK



Date: 1 SEP 2019 21:16:34

Highest Channel / 20MHz / 16QAM

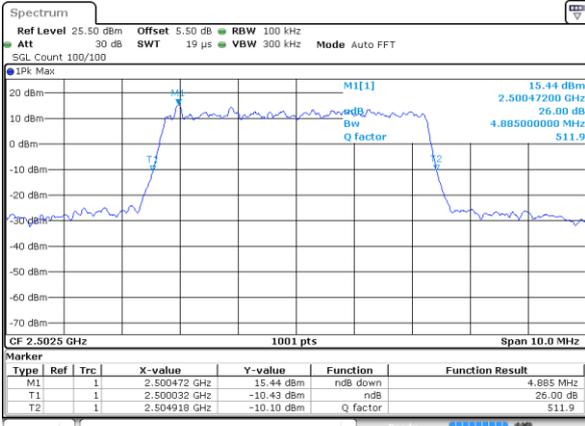


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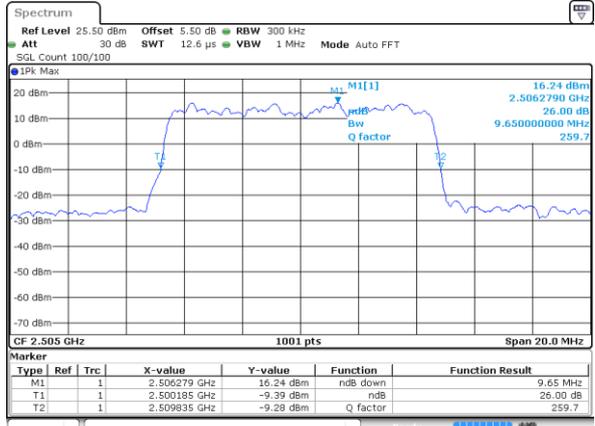
LTE Band 7

Lowest Channel / 5MHz / 64QAM



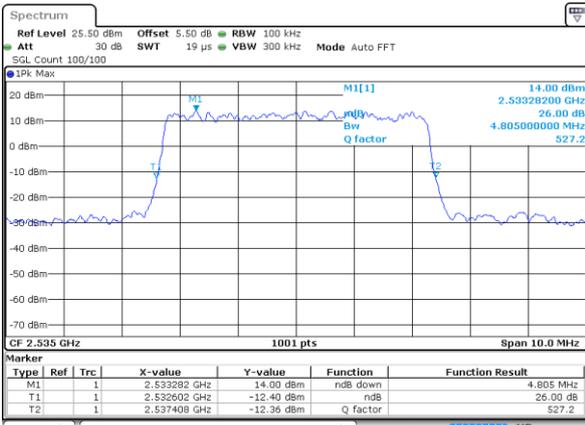
Date: 1 SEP 2019 21:31:43

Lowest Channel / 10MHz / 64QAM



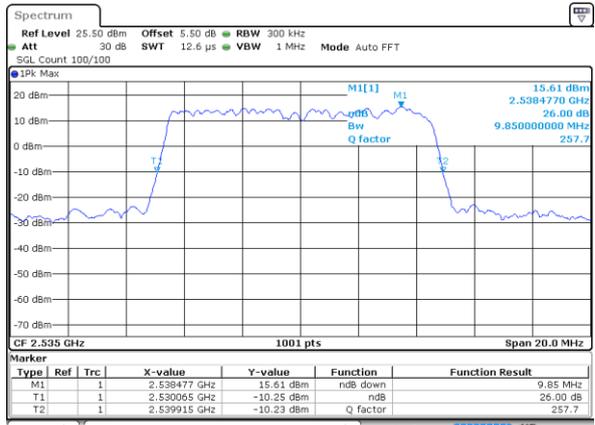
Date: 1 SEP 2019 21:39:57

Middle Channel / 5MHz / 64QAM



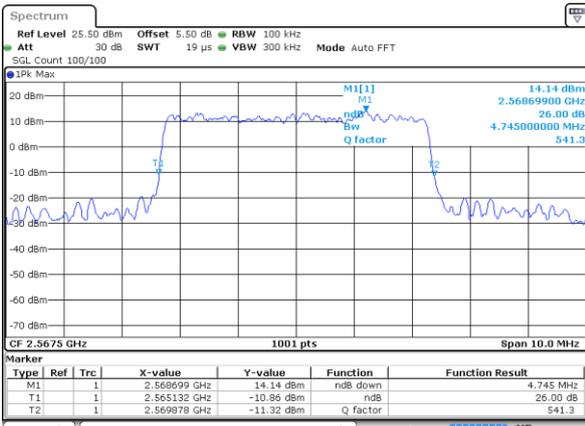
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Middle Channel / 10MHz / 64QAM



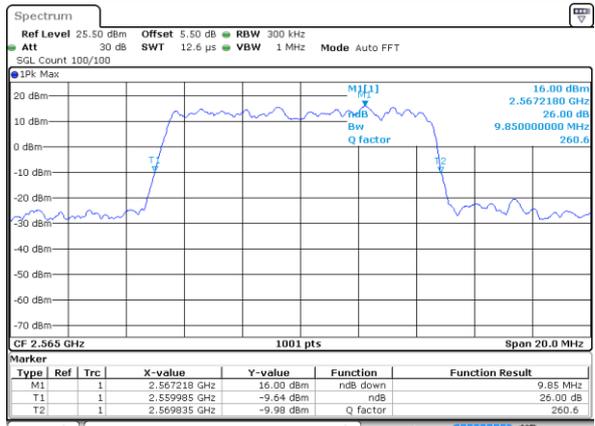
Date: 1 SEP 2019 21:40:07

Highest Channel / 5MHz / 64QAM



Date: 1 SEP 2019 21:32:03

Highest Channel / 10MHz / 64QAM

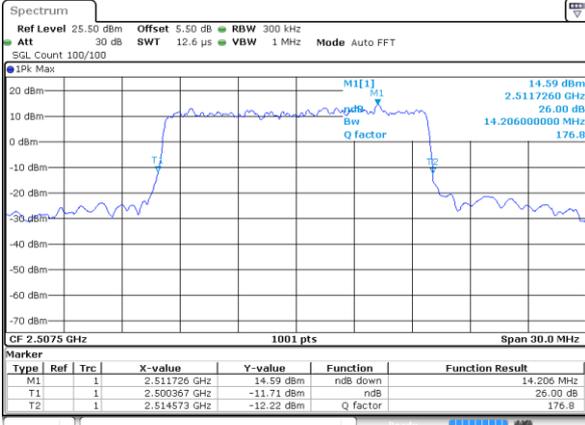


Date: 1 SEP 2019 21:40:17



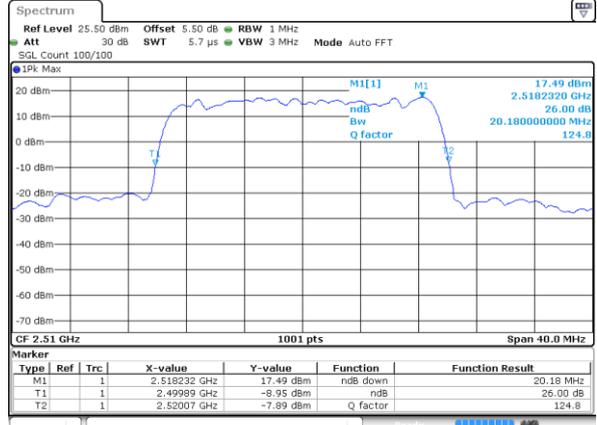
LTE Band 7

Lowest Channel / 15MHz / 64QAM



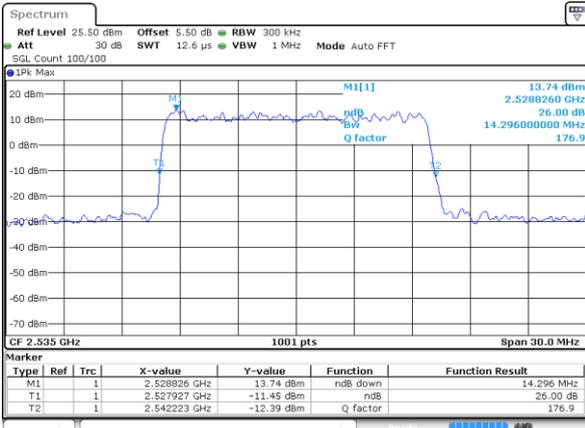
Date: 1 SEP 2019 21:48:10

Lowest Channel / 20MHz / 64QAM



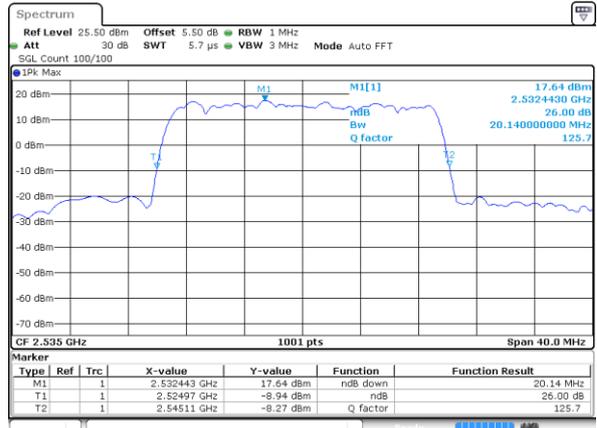
Date: 1 SEP 2019 21:56:24

Middle Channel / 15MHz / 64QAM



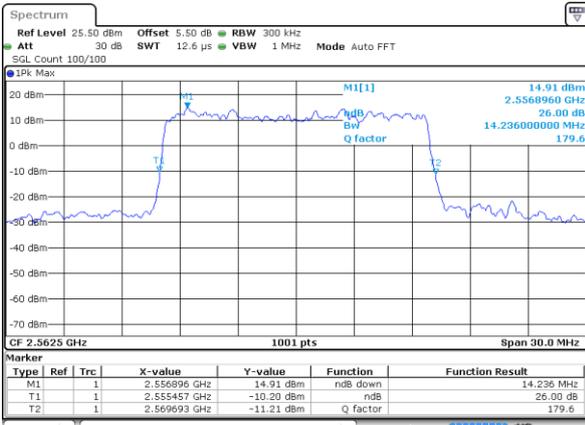
Date: 1 SEP 2019 21:48:20

Middle Channel / 20MHz / 64QAM



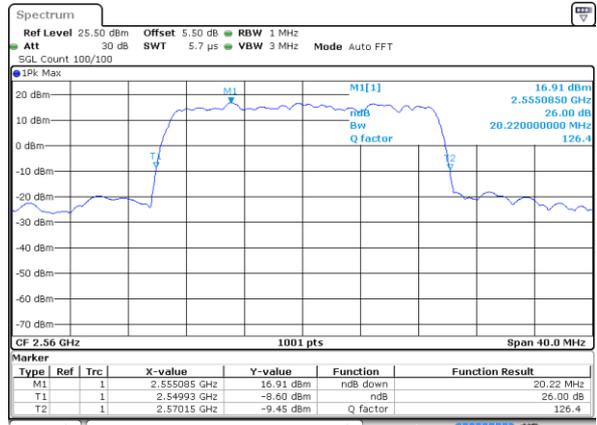
Date: 1 SEP 2019 21:56:34

Highest Channel / 15MHz / 64QAM



Date: 1 SEP 2019 21:48:30

Highest Channel / 20MHz / 64QAM

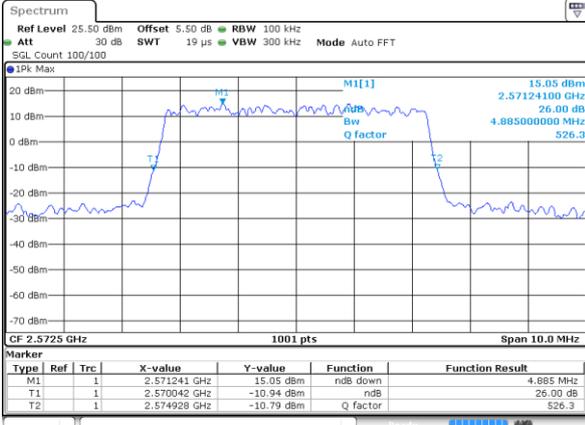


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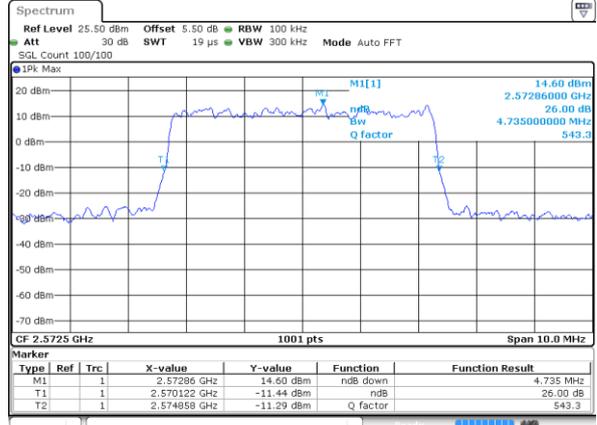
LTE Band 38

Lowest Channel / 5MHz / QPSK



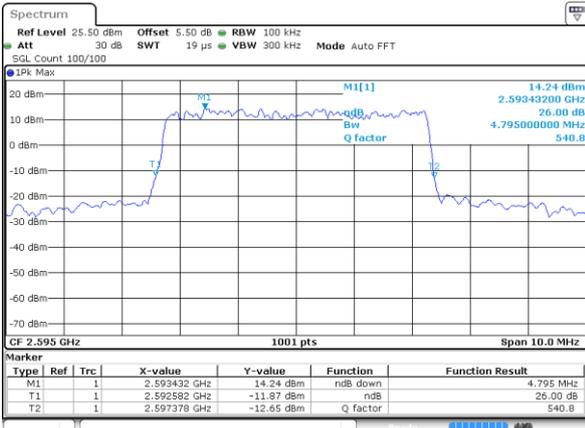
Date: 4 SEP 2019 20:30:30

Lowest Channel / 5MHz / 16QAM



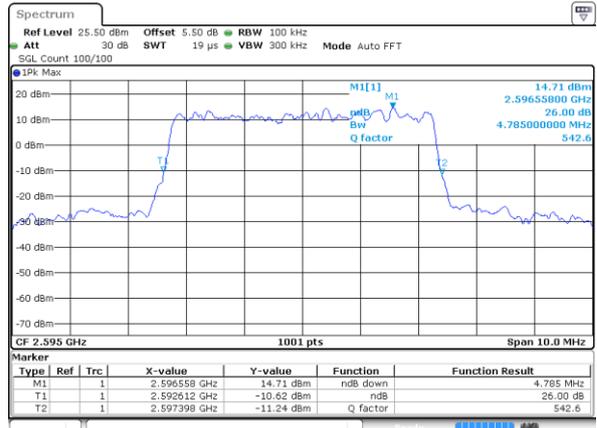
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Middle Channel / 5MHz / QPSK



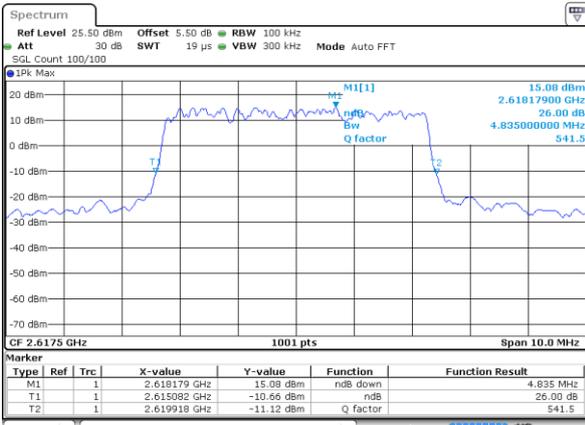
Date: 4 SEP 2019 20:31:09

Middle Channel / 5MHz / 16QAM



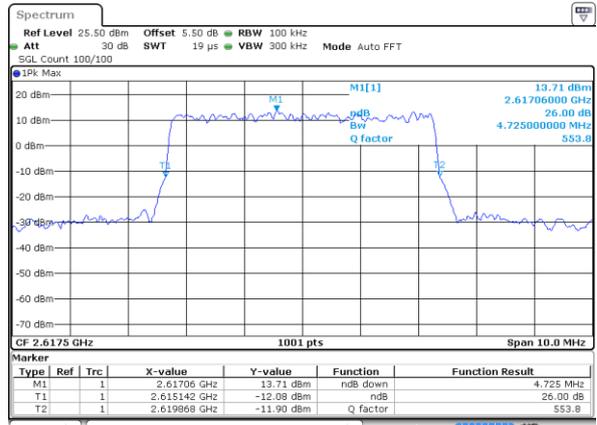
Date: 4 SEP 2019 20:31:19

Highest Channel / 5MHz / QPSK



Date: 4 SEP 2019 20:31:49

Highest Channel / 5MHz / 16QAM

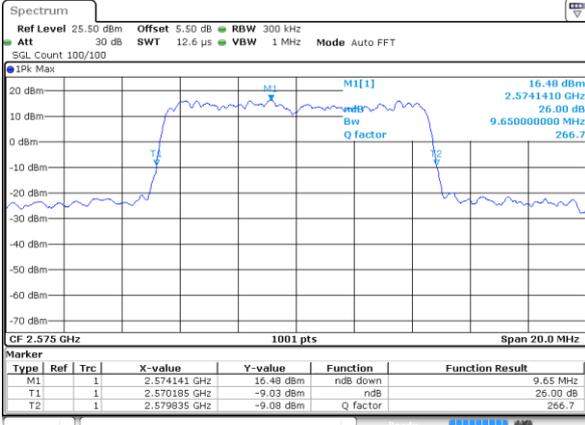


Date: 4 SEP 2019 20:31:59



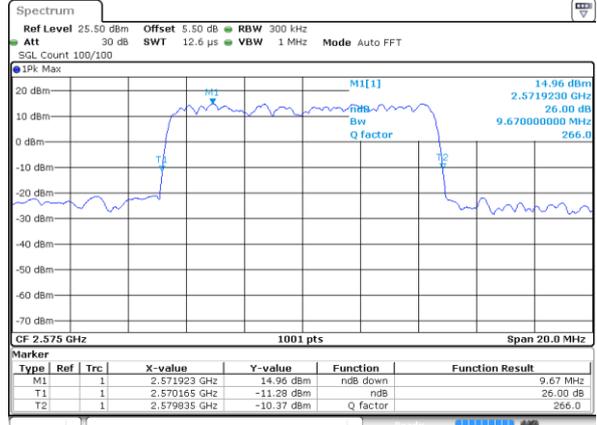
LTE Band 38

Lowest Channel / 10MHz / QPSK



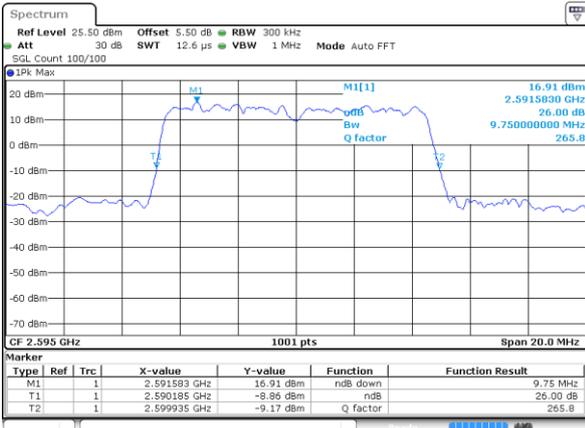
Date: 4 SEP 2019 20:32:29

Lowest Channel / 10MHz / 16QAM



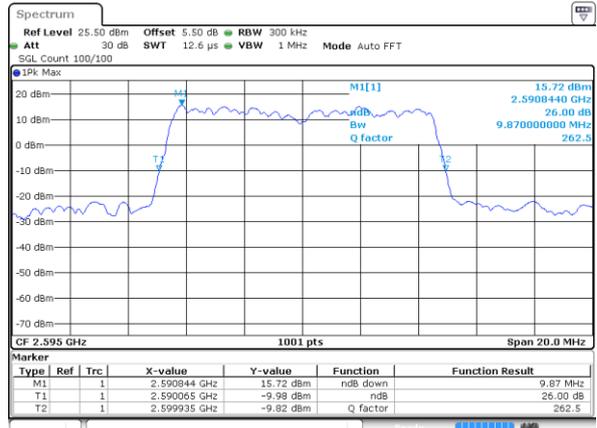
Date: 4 SEP 2019 20:32:39

Middle Channel / 10MHz / QPSK



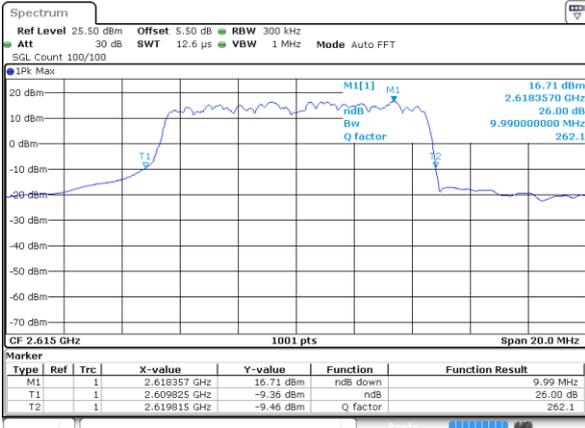
Date: 4 SEP 2019 20:33:08

Middle Channel / 10MHz / 16QAM



Date: 4 SEP 2019 20:33:18

Highest Channel / 10MHz / QPSK



Date: 4 SEP 2019 20:33:48

Highest Channel / 10MHz / 16QAM

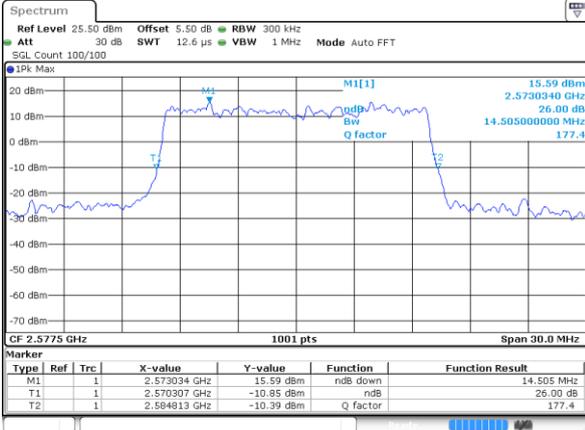


Date: 4 SEP 2019 20:33:58



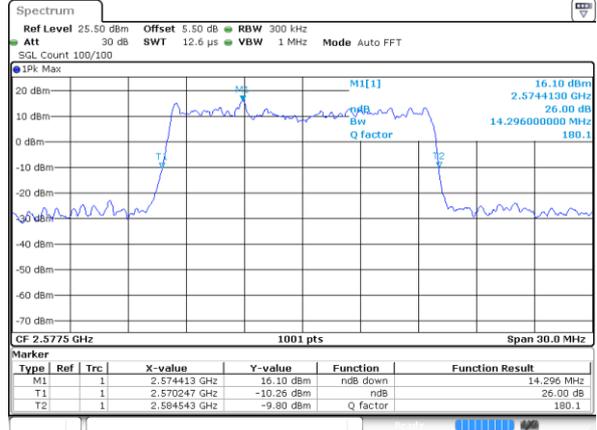
LTE Band 38

Lowest Channel / 15MHz / QPSK



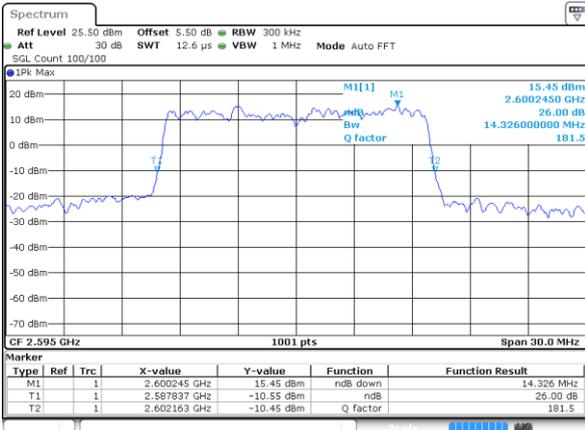
Date: 4 SEP 2019 20:34:28

Lowest Channel / 15MHz / 16QAM



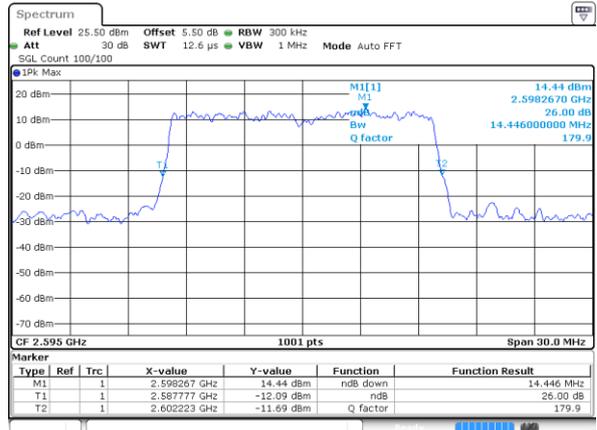
Date: 4 SEP 2019 20:34:37

Middle Channel / 15MHz / QPSK



Date: 4 SEP 2019 20:35:07

Middle Channel / 15MHz / 16QAM



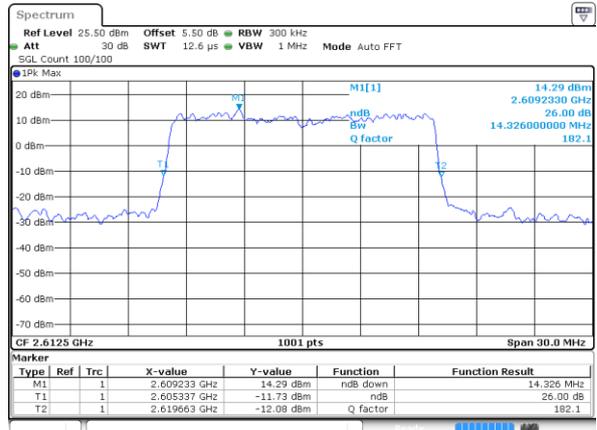
Date: 4 SEP 2019 20:35:17

Highest Channel / 15MHz / QPSK



Date: 4 SEP 2019 20:35:47

Highest Channel / 15MHz / 16QAM

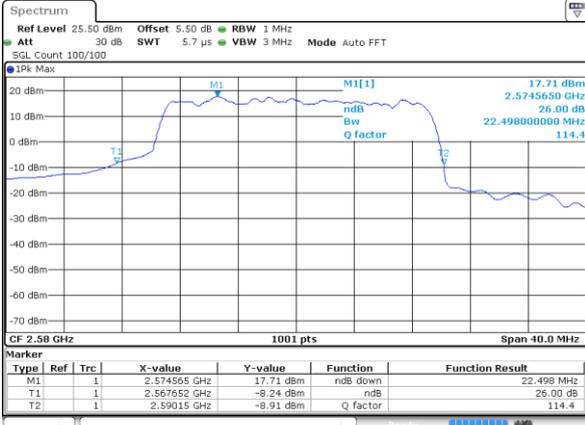


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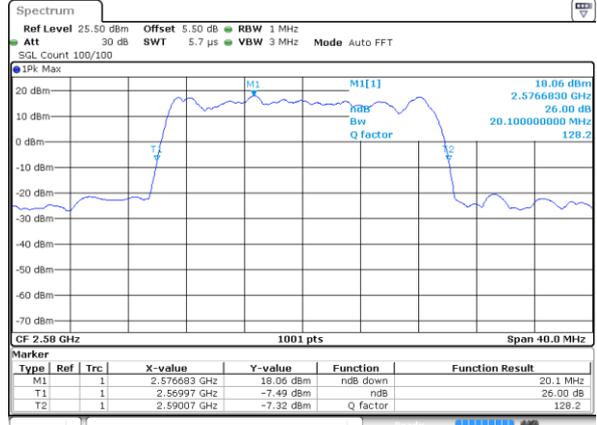
LTE Band 38

Lowest Channel / 20MHz / QPSK



Date: 4 SEP 2019 20:36:26

Lowest Channel / 20MHz / 16QAM



Date: 4 SEP 2019 20:36:36

Middle Channel / 20MHz / QPSK



Date: 4 SEP 2019 20:37:06

Middle Channel / 20MHz / 16QAM



Date: 4 SEP 2019 20:37:16

Highest Channel / 20MHz / QPSK



Date: 4 SEP 2019 20:37:46

Highest Channel / 20MHz / 16QAM

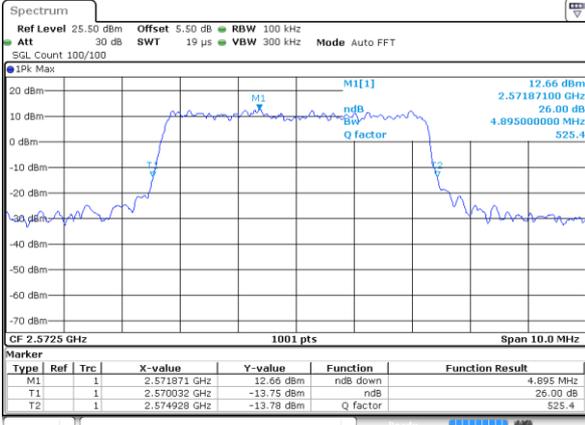


Date: 4 SEP 2019 20:37:55



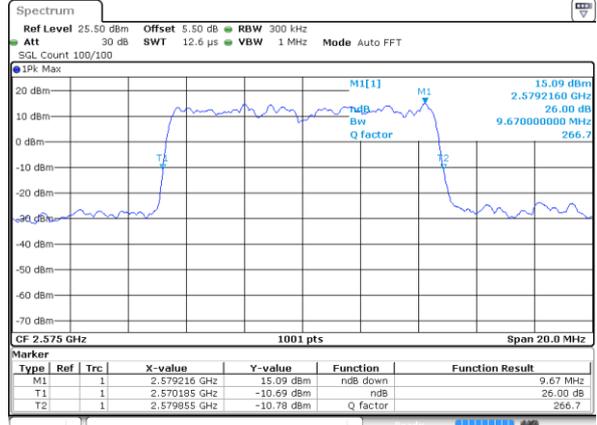
LTE Band 38

Lowest Channel / 5MHz / 64QAM



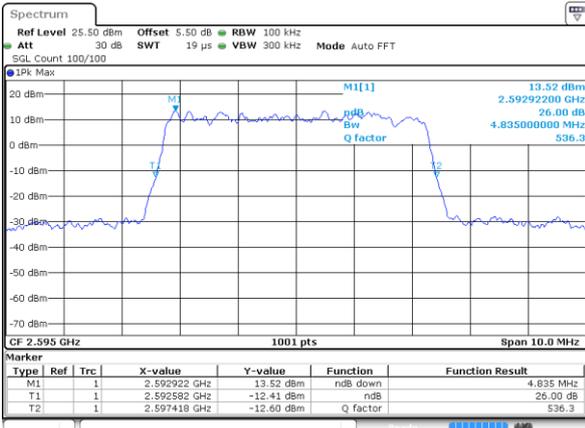
Date: 4 SEP 2019 20:38:15

Lowest Channel / 10MHz / 64QAM



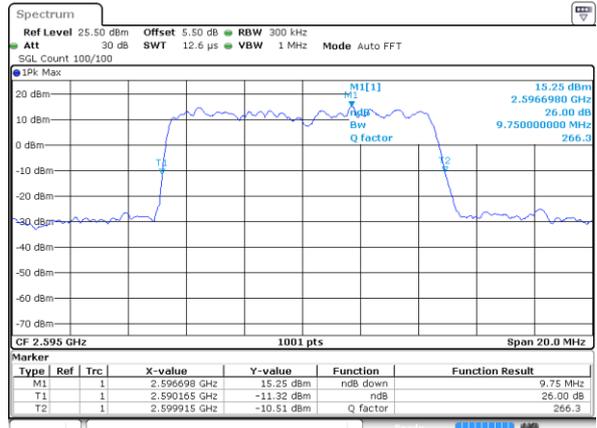
Date: 4 SEP 2019 20:39:15

Middle Channel / 5MHz / 64QAM



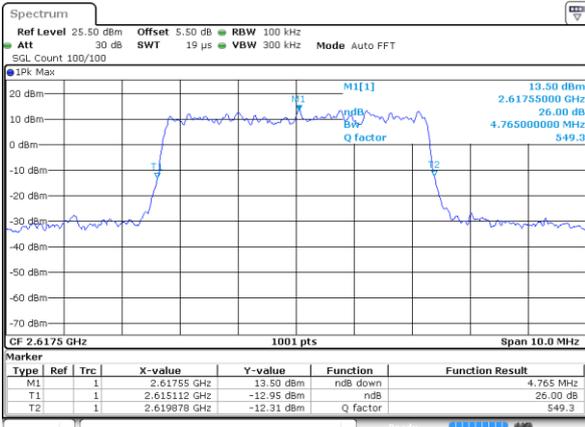
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Middle Channel / 10MHz / 64QAM



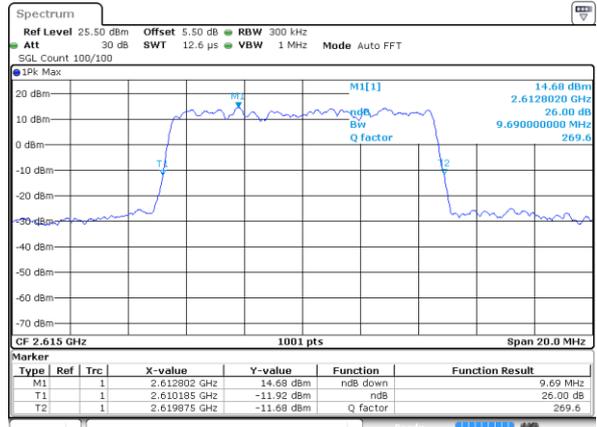
Date: 4 SEP 2019 20:39:34

Highest Channel / 5MHz / 64QAM



Date: 4 SEP 2019 20:38:55

Highest Channel / 10MHz / 64QAM

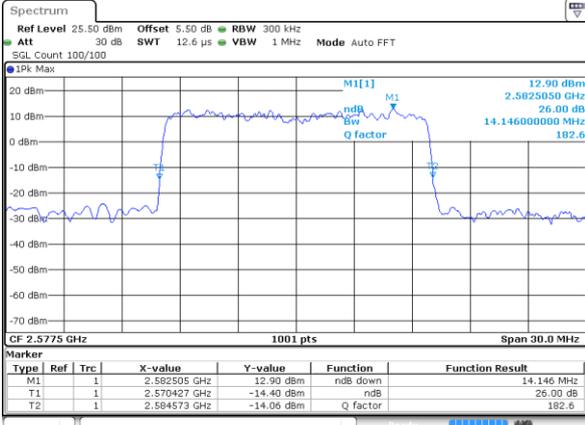


Date: 4 SEP 2019 20:39:54



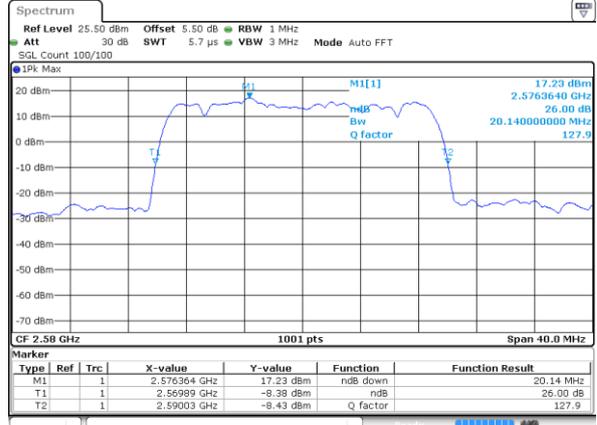
LTE Band 38

Lowest Channel / 15MHz / 64QAM



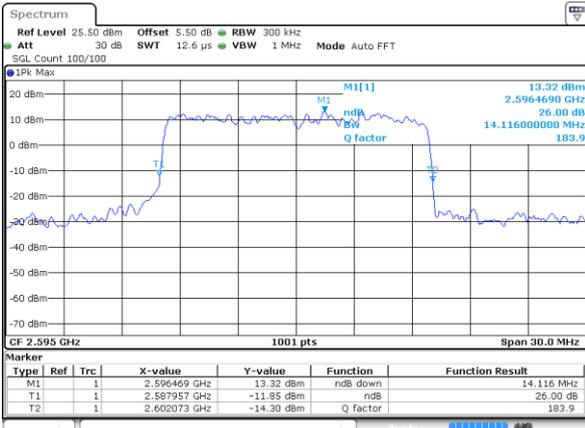
Date: 4 SEP 2019 20:40:14

Lowest Channel / 20MHz / 64QAM



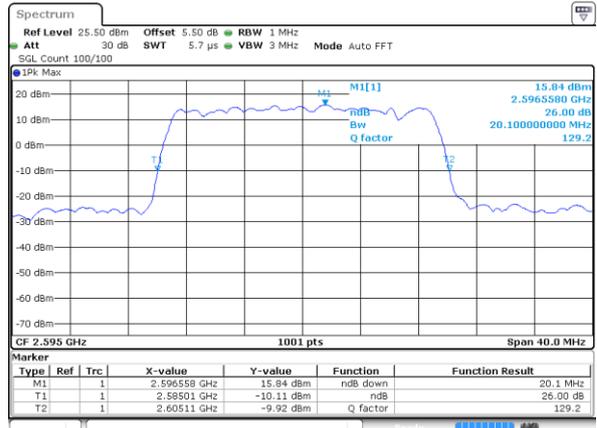
Date: 4 SEP 2019 20:41:14

Middle Channel / 15MHz / 64QAM



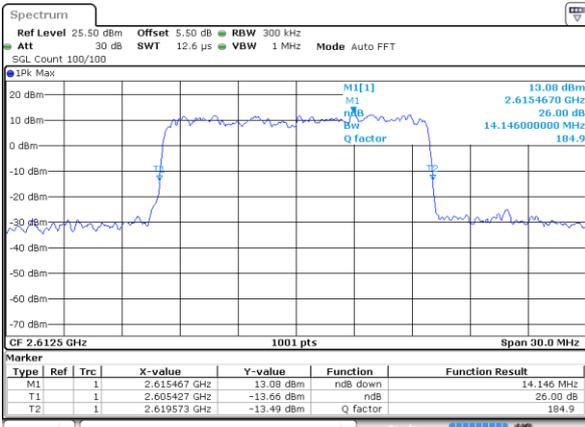
Date: 4 SEP 2019 20:40:34

Middle Channel / 20MHz / 64QAM



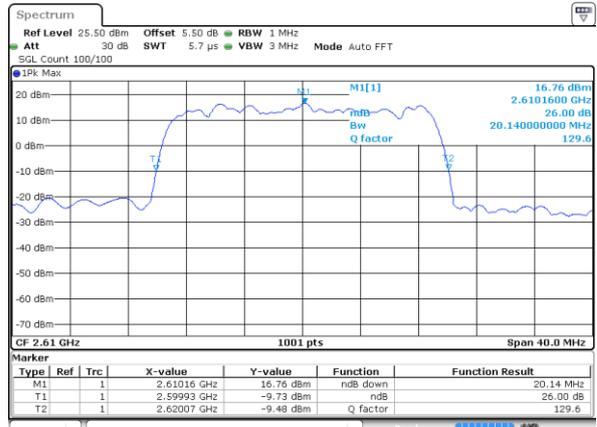
Date: 4 SEP 2019 20:41:33

Highest Channel / 15MHz / 64QAM



Date: 4 SEP 2019 20:40:54

Highest Channel / 20MHz / 64QAM



Date: 4 SEP 2019 20:41:53



## 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	2.69	2.71	4.49	4.48	9.03	9.07	13.40	13.46	18.30	18.54
Middle CH	1.09	1.09	2.70	2.70	4.50	4.51	9.05	9.03	13.46	13.43	18.42	18.46
Highest CH	1.09	1.09	2.71	2.70	4.50	4.49	9.05	8.99	13.40	13.43	18.34	18.58
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.48		9.05		13.49		18.30	
Middle CH	1.09		2.72		4.49		9.03		13.49		18.50	
Highest CH	1.10		2.71		4.48		9.07		13.46		18.50	

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	1.0853	1.0965	2.7093	2.7093	4.4855	4.4856	9.0310	9.0509	13.457	13.487	18.422	18.222
Middle CH	1.0937	1.0937	2.6973	2.6913	4.4855	4.4955	9.0310	9.0310	13.457	13.487	18.382	18.501
Highest CH	1.1021	1.0881	2.7093	2.7093	4.4855	4.4855	8.9910	9.0509	13.487	1.457	18.342	18.222
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.												
Lowest CH	1.0937		2.7093		4.4755		9.0509		13.427		18.302	
Middle CH	1.0937		2.6913		4.4955		9.0509		13.457		18.382	
Highest CH	1.0881		2.7213		4.4955		8.9910		13.427		18.262	



LTE Band 5 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
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	1.09	2.72	2.70	4.49	4.47	9.03	9.07				
Middle CH	1.09	1.09	2.71	2.71	4.48	4.49	9.01	8.99				
Highest CH	1.08	1.09	2.70	2.71	4.49	4.48	9.05	9.03				

LTE Band 5 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.10	2.70	4.49	9.03								
Middle CH	1.10	2.72	4.49	8.99								
Highest CH	1.09	2.70	4.49	8.99								

LTE Band 7 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.486	4.486	9.031	9.011	13.487	13.457	18.382	18.382
Middle CH					4.486	4.496	9.031	9.011	13.367	13.487	18.302	18.382
Highest CH					4.476	4.476	9.011	9.071	13.516	13.427	18.382	18.182

LTE Band 7 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH					4.505	9.011	13.397	18.222				
Middle CH					4.476	9.031	13.487	18.342				
Highest CH					4.496	9.011	13.457	18.382				

LTE Band 38 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
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	4.49	9.05	9.07	13.37	13.43	18.46	18.50
Middle CH					4.50	4.49	9.05	8.99	13.49	13.49	18.30	18.26
Highest CH					4.49	4.50	9.05	9.01	13.43	13.46	18.46	18.46

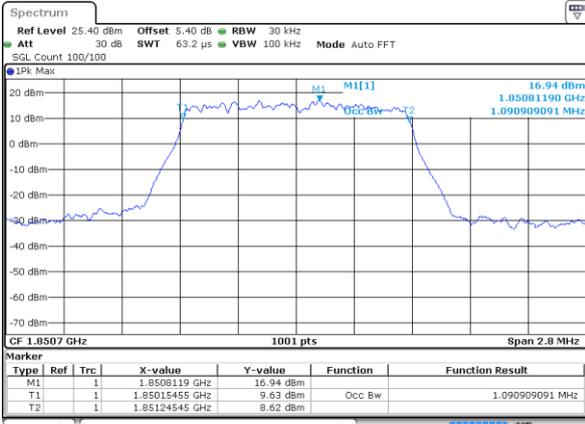
  

LTE Band 38 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH					4.49	9.01	13.43	18.30				
Middle CH					4.48	8.99	13.49	18.30				
Highest CH					4.49	9.05	13.43	18.26				



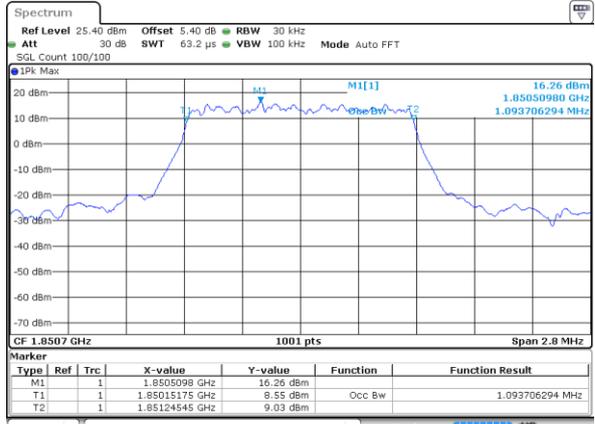
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



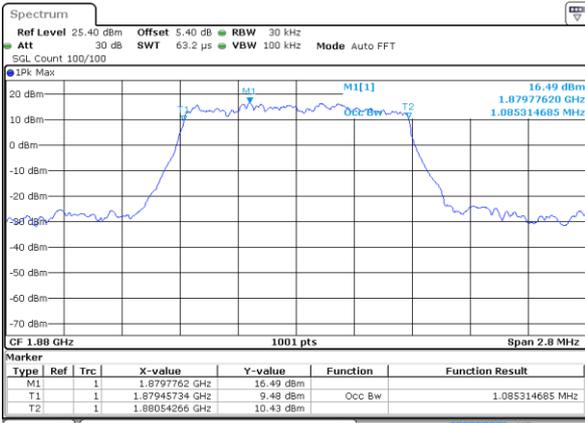
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Lowest Channel / 1.4MHz / 16QAM



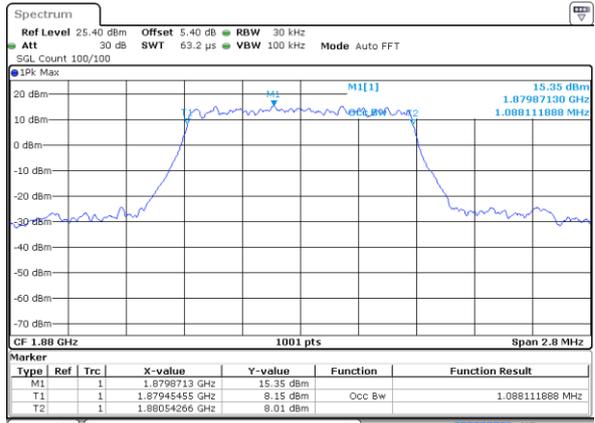
Date: 29 AUG 2019 00:34:32

Middle Channel / 1.4MHz / QPSK



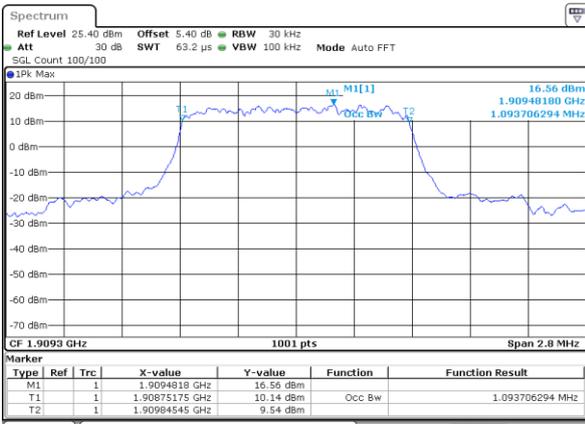
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Middle Channel / 1.4MHz / 16QAM



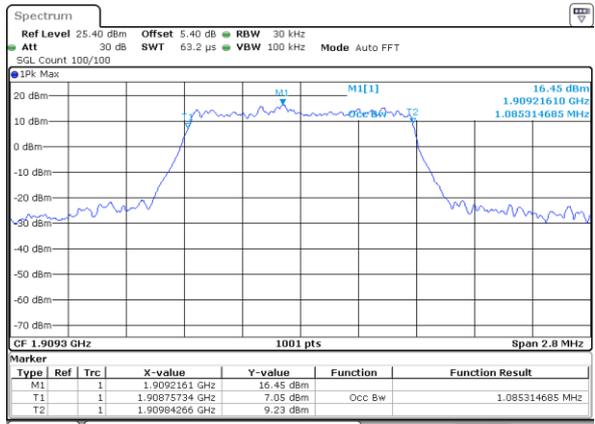
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Highest Channel / 1.4MHz / QPSK



Date: 29 AUG 2019 00:44:05

Highest Channel / 1.4MHz / 16QAM

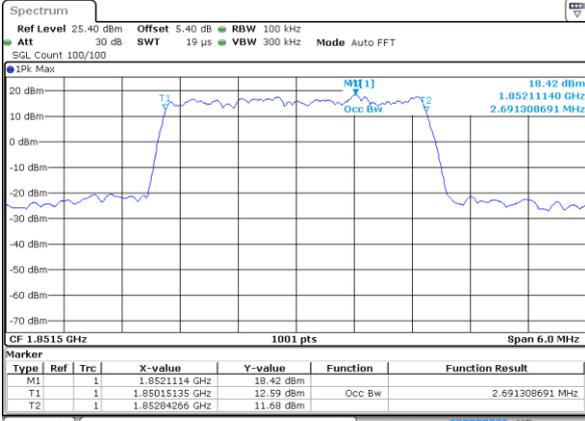


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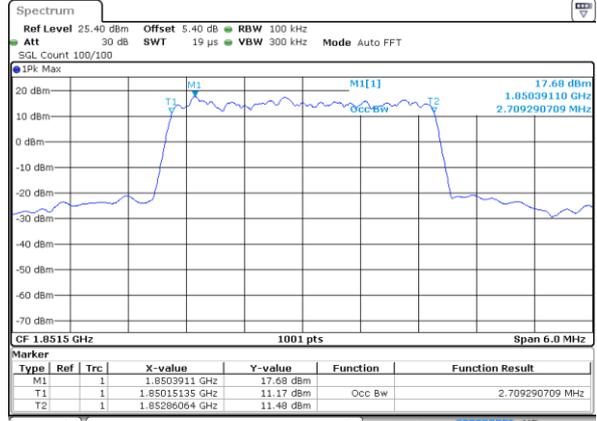
LTE Band 2

Lowest Channel / 3MHz / QPSK



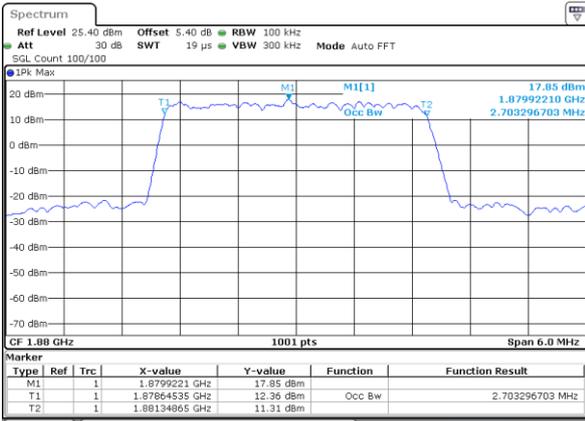
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Lowest Channel / 3MHz / 16QAM



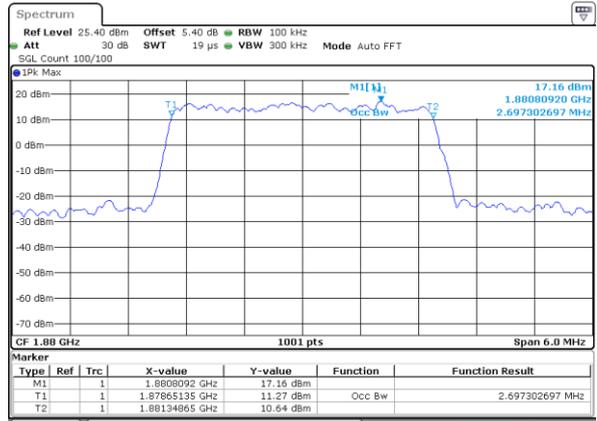
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Middle Channel / 3MHz / QPSK



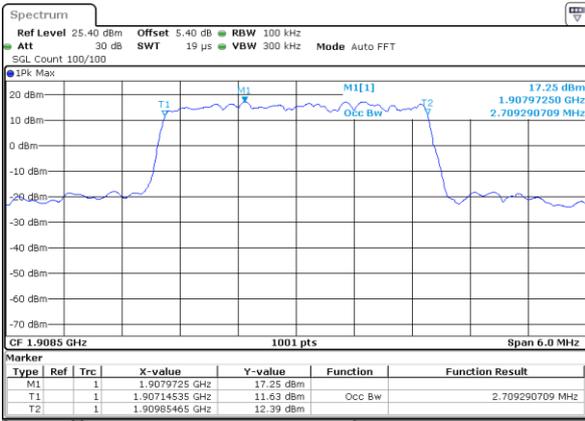
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Middle Channel / 3MHz / 16QAM



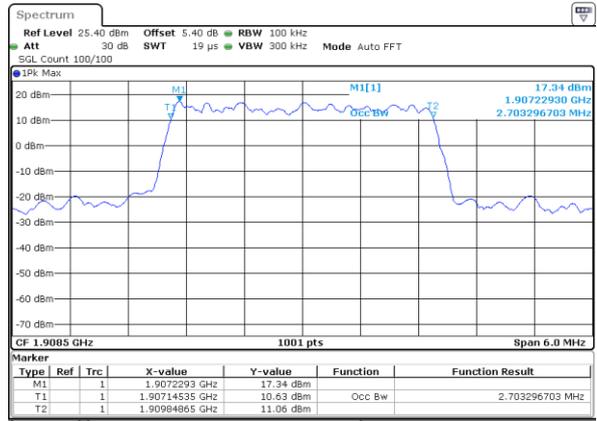
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Highest Channel / 3MHz / QPSK



Date: 29 AUG 2019 01:00:36

Highest Channel / 3MHz / 16QAM

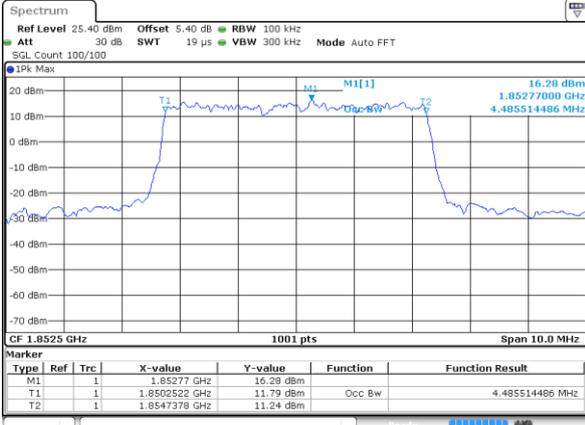


Date: 29 AUG 2019 01:00:47



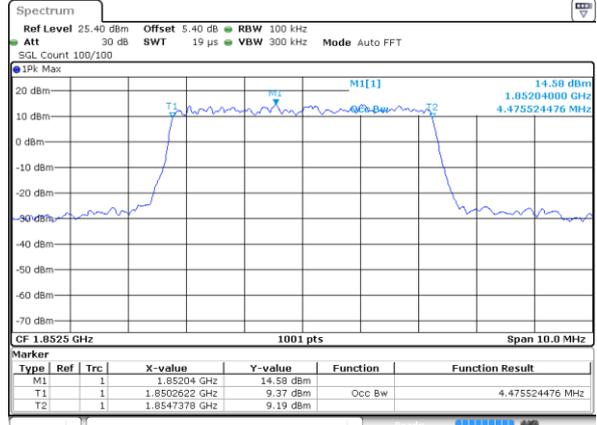
LTE Band 2

Lowest Channel / 5MHz / QPSK



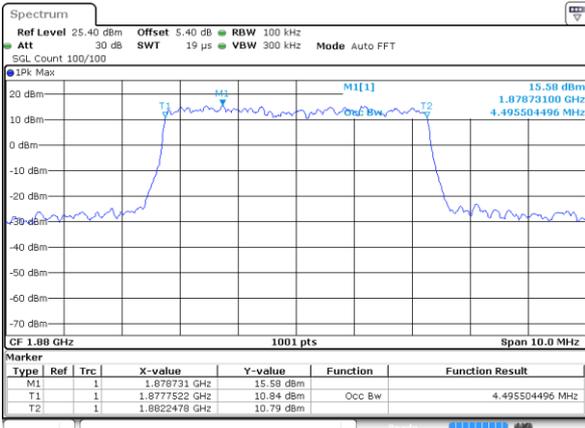
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Lowest Channel / 5MHz / 16QAM



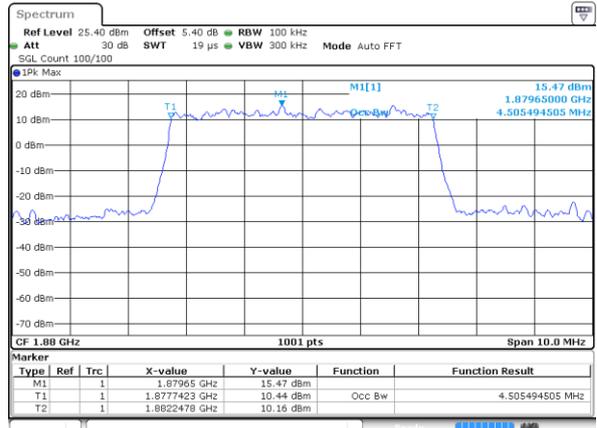
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Middle Channel / 5MHz / QPSK



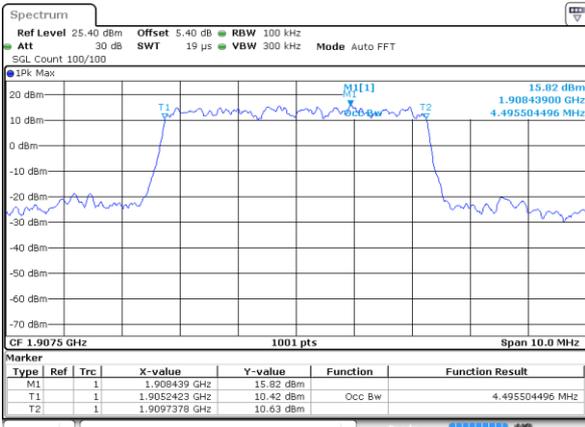
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Middle Channel / 5MHz / 16QAM



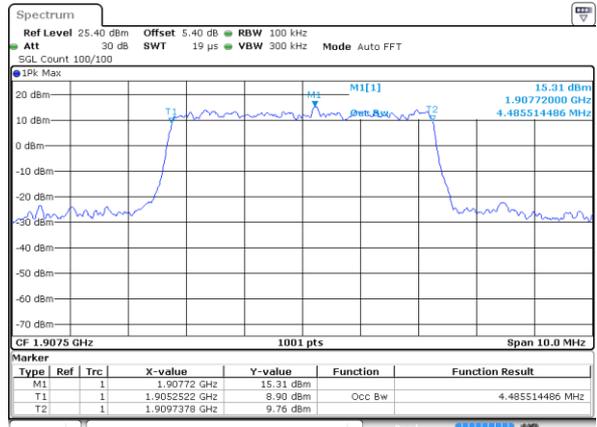
Date: 29 AUG 2019 01:14:47

Highest Channel / 5MHz / QPSK



Date: 29 AUG 2019 01:17:07

Highest Channel / 5MHz / 16QAM

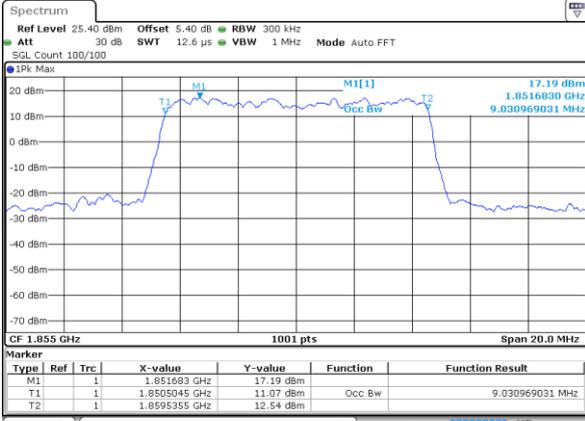


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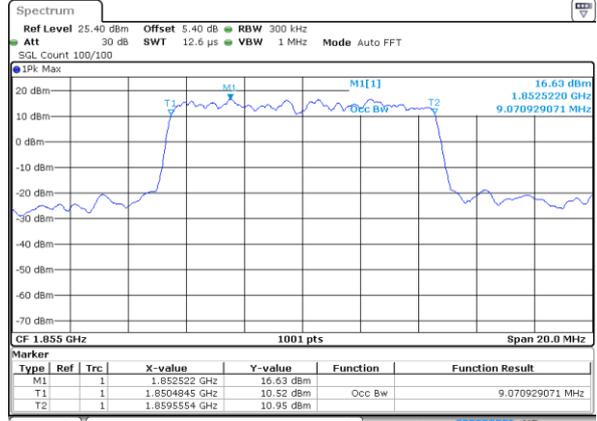
LTE Band 2

Lowest Channel / 10MHz / QPSK



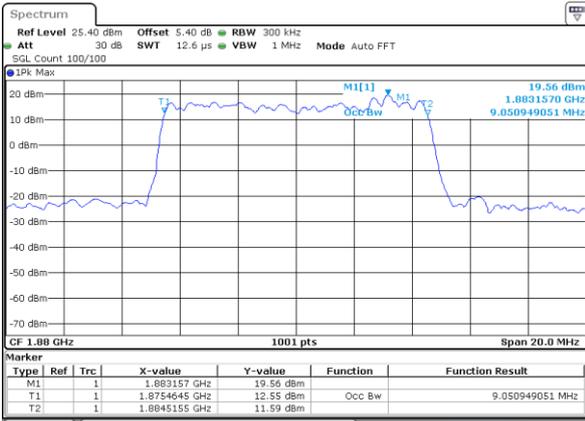
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Lowest Channel / 10MHz / 16QAM



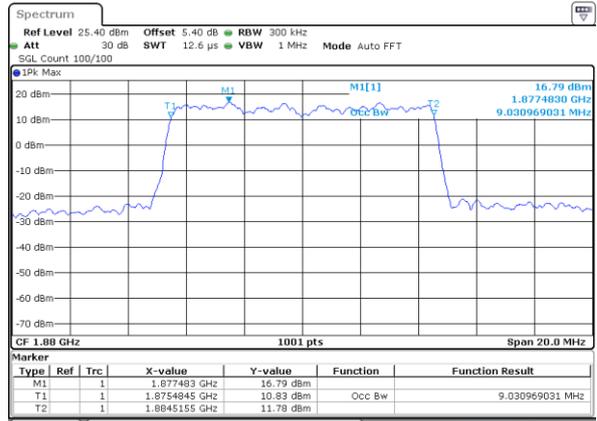
Date: 29 AUG 2019 01:24:18

Middle Channel / 10MHz / QPSK



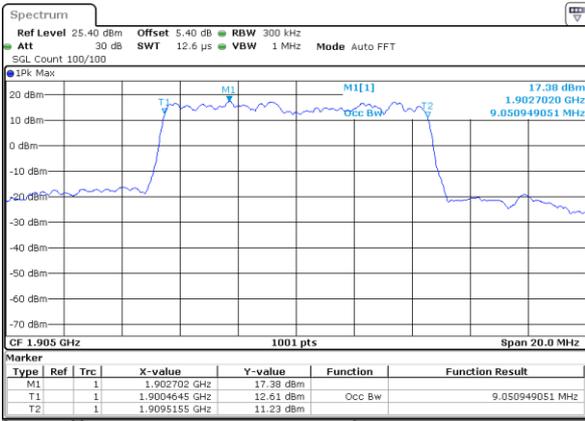
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Middle Channel / 10MHz / 16QAM



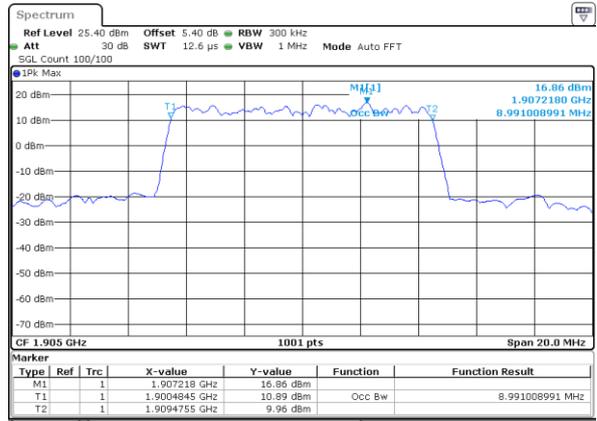
Date: 29 AUG 2019 01:31:18

Highest Channel / 10MHz / QPSK



Date: 29 AUG 2019 01:33:38

Highest Channel / 10MHz / 16QAM

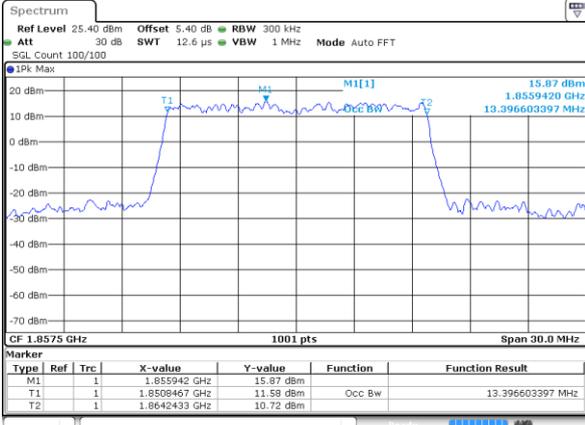


Date: 29 AUG 2019 01:33:48



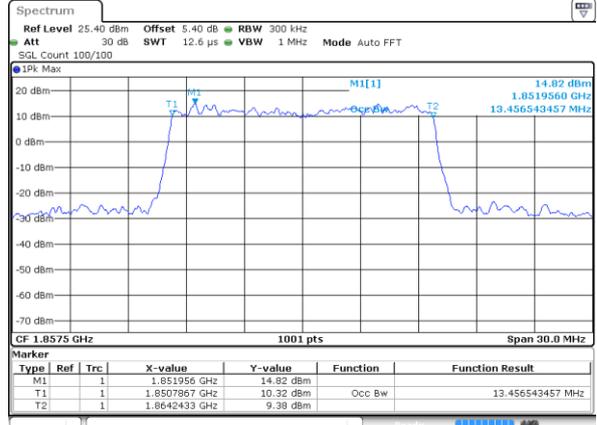
LTE Band 2

Lowest Channel / 15MHz / QPSK



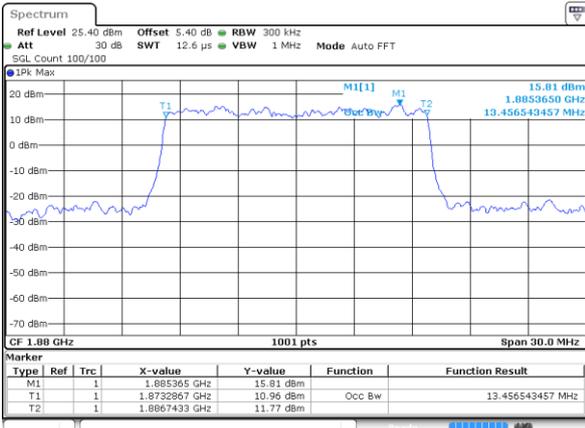
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Lowest Channel / 15MHz / 16QAM



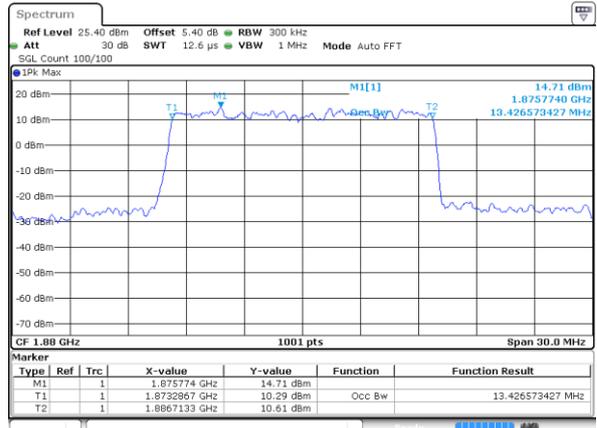
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Middle Channel / 15MHz / QPSK



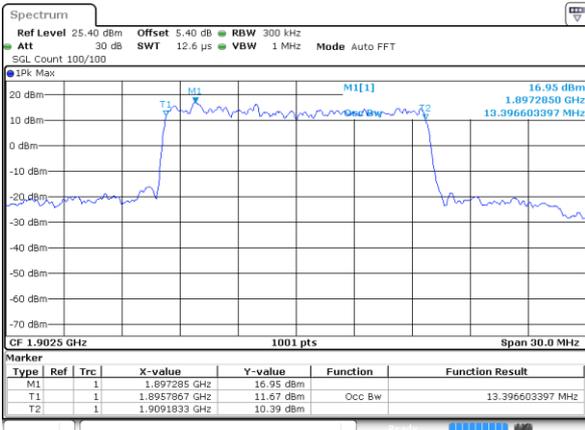
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Middle Channel / 15MHz / 16QAM



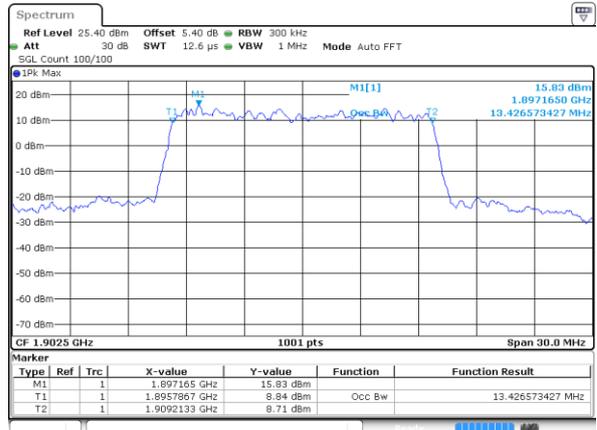
Date: 29 AUG 2019 01:47:48

Highest Channel / 15MHz / QPSK



Date: 29 AUG 2019 01:50:08

Highest Channel / 15MHz / 16QAM

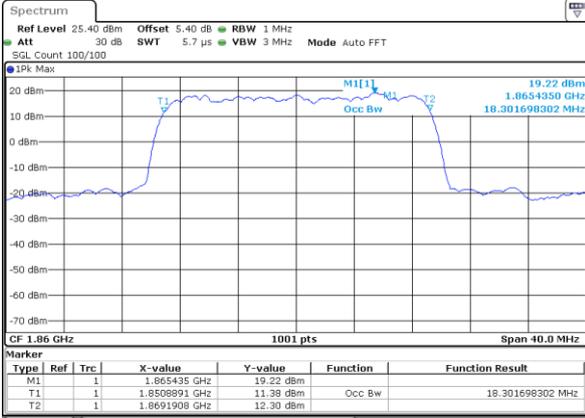


Date: 29 AUG 2019 01:50:18



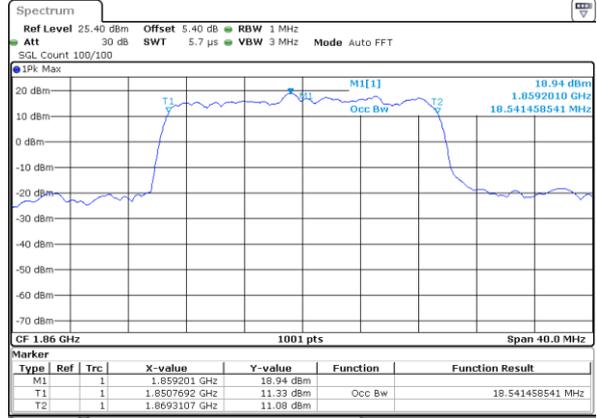
LTE Band 2

Lowest Channel / 20MHz / QPSK



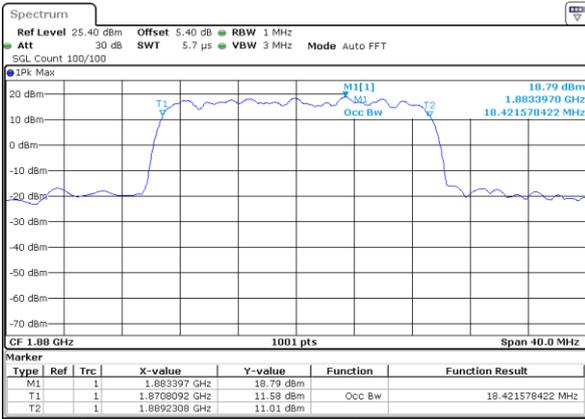
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Lowest Channel / 20MHz / 16QAM



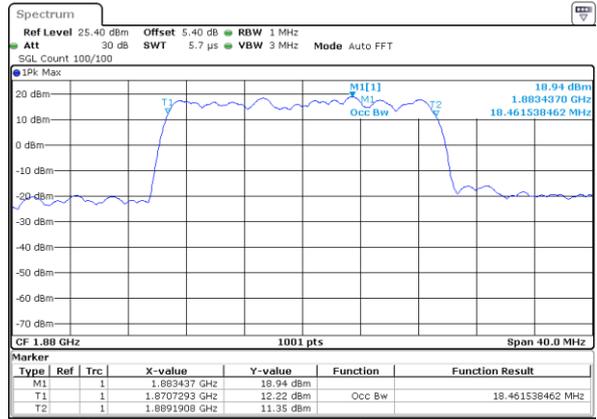
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Middle Channel / 20MHz / QPSK



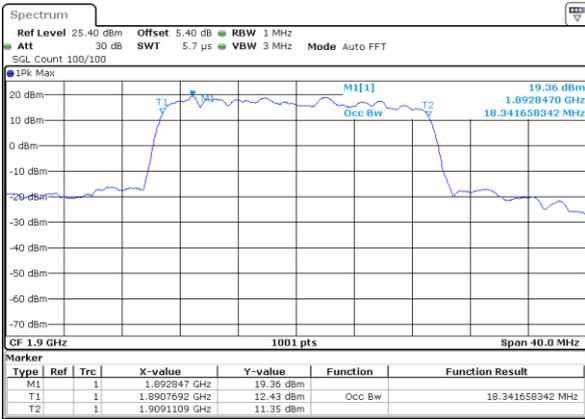
Date: 29 AUG 2019 02:04:08

Middle Channel / 20MHz / 16QAM



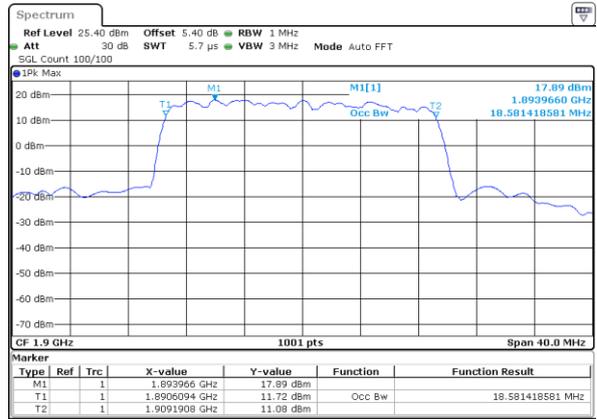
Date: 29 AUG 2019 02:04:18

Highest Channel / 20MHz / QPSK



Date: 29 AUG 2019 02:06:38

Highest Channel / 20MHz / 16QAM

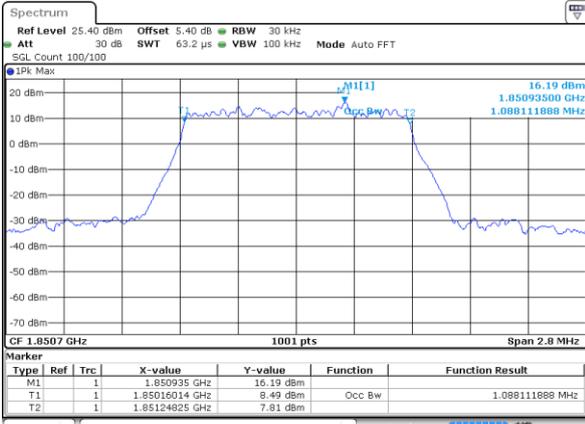


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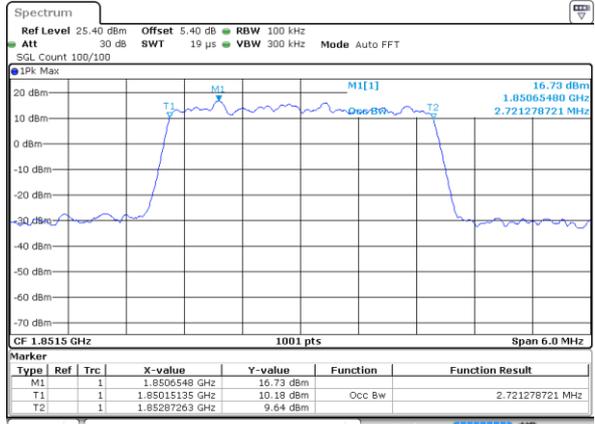
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



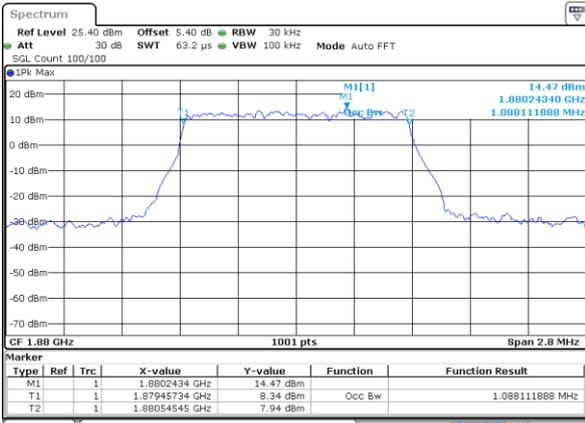
Date: 29 AUG 2019 02:13:38

Lowest Channel / 3MHz / 64QAM



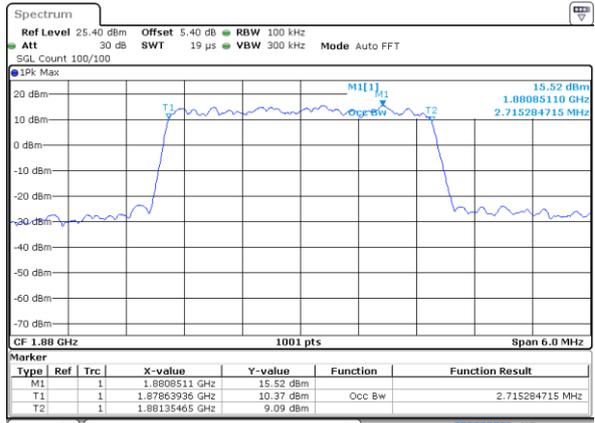
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Middle Channel / 1.4MHz / 64QAM



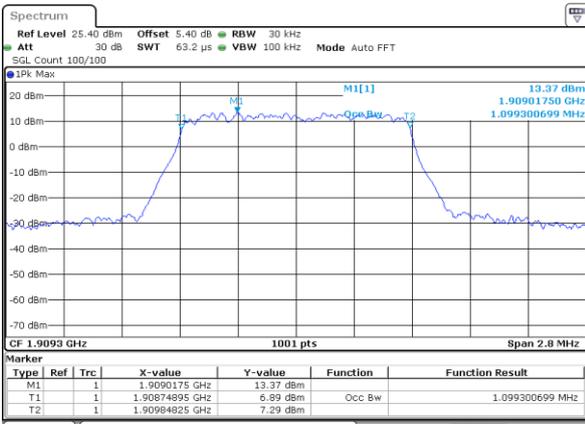
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Middle Channel / 3MHz / 64QAM



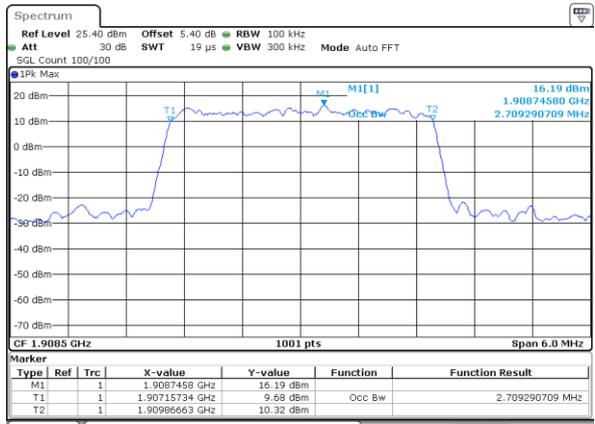
Date: 29 AUG 2019 02:14:19

Highest Channel / 1.4MHz / 64QAM



Date: 29 AUG 2019 02:13:59

Highest Channel / 3MHz / 64QAM

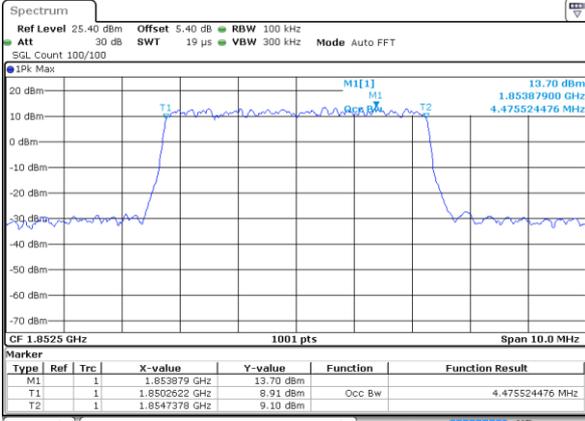


Date: 29 AUG 2019 02:14:29



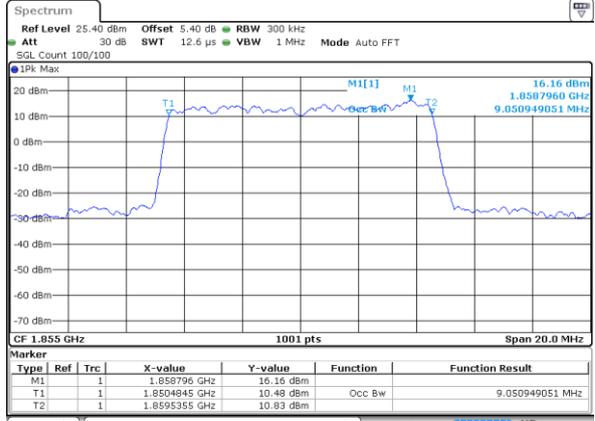
LTE Band 2

Lowest Channel / 5MHz / 64QAM



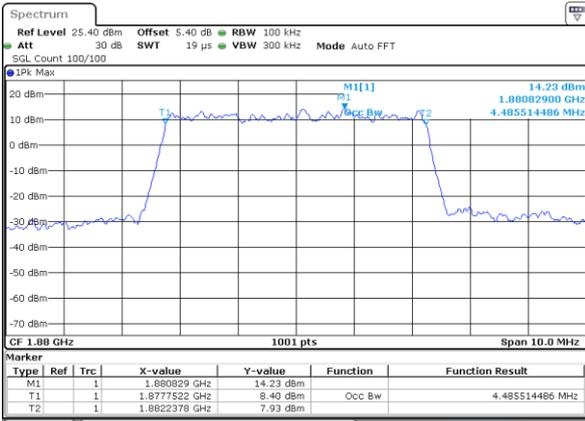
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Lowest Channel / 10MHz / 64QAM



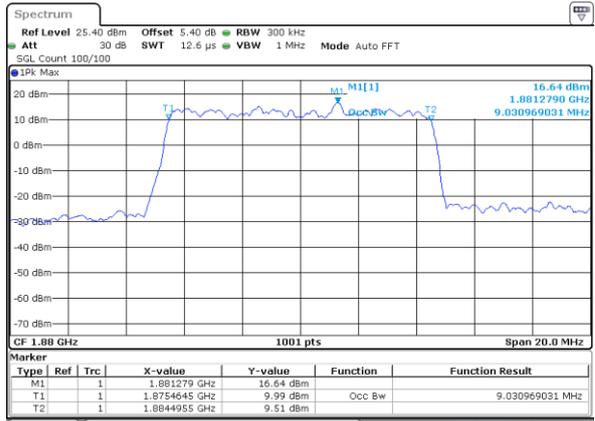
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Middle Channel / 5MHz / 64QAM



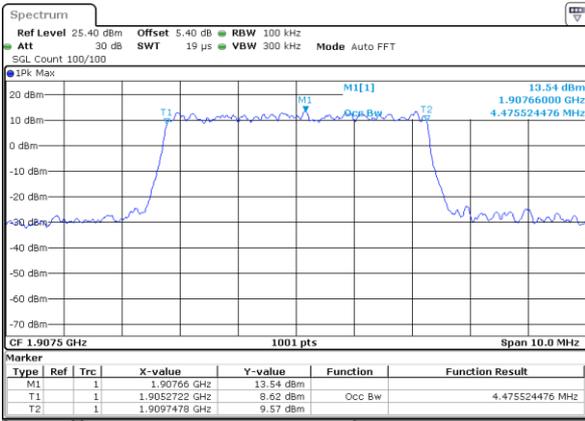
Date: 29 AUG 2019 02:14:49

Middle Channel / 10MHz / 64QAM



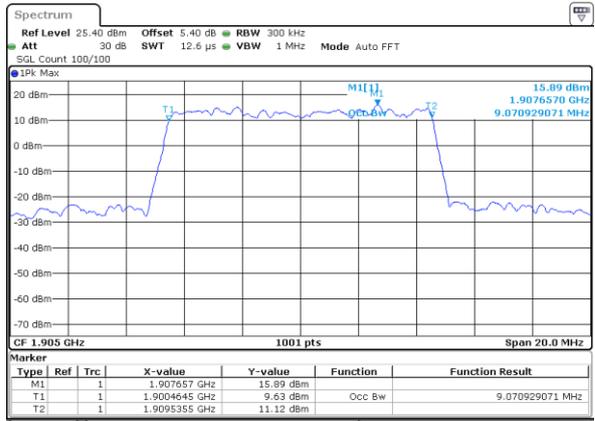
Date: 29 AUG 2019 02:15:19

Highest Channel / 5MHz / 64QAM



Date: 29 AUG 2019 02:14:59

Highest Channel / 10MHz / 64QAM

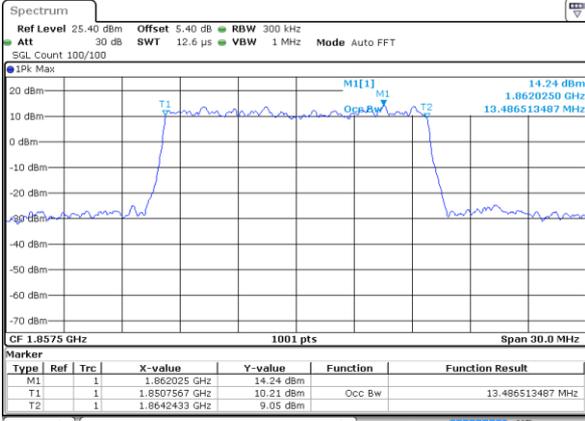


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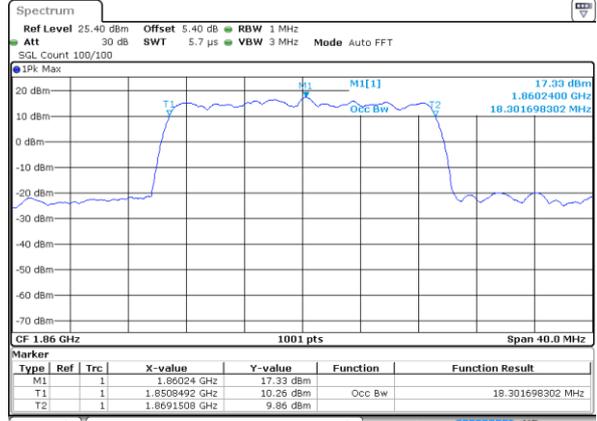
LTE Band 2

Lowest Channel / 15MHz / 64QAM



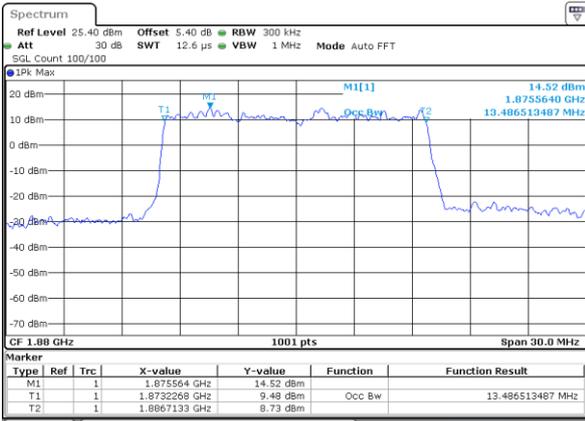
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Lowest Channel / 20MHz / 64QAM



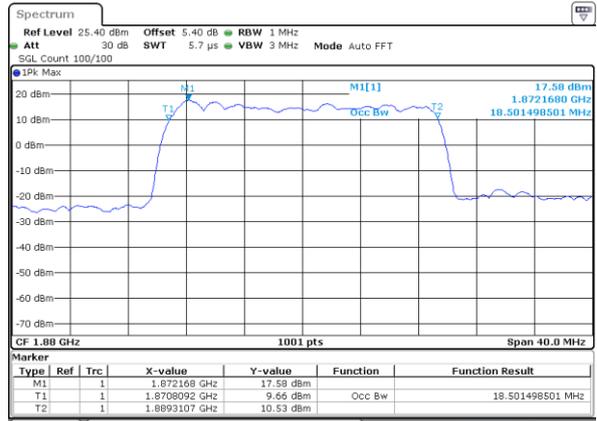
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Middle Channel / 15MHz / 64QAM



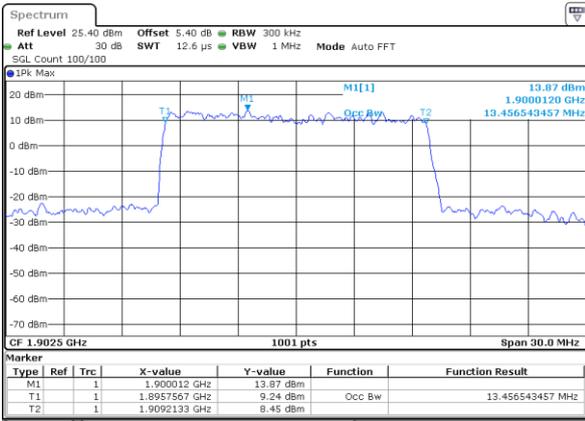
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Middle Channel / 20MHz / 64QAM



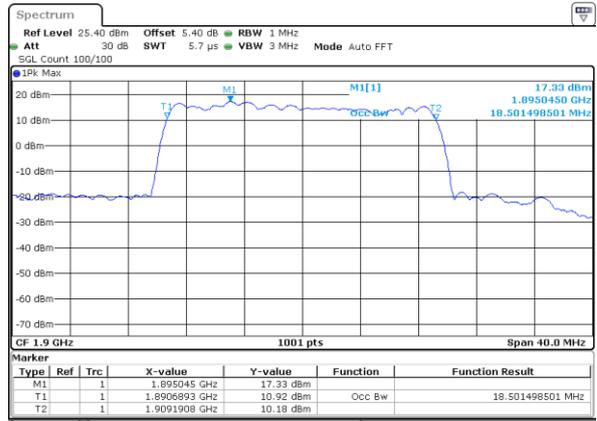
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Highest Channel / 15MHz / 64QAM



Date: 29 AUG 2019 02:16:00

Highest Channel / 20MHz / 64QAM

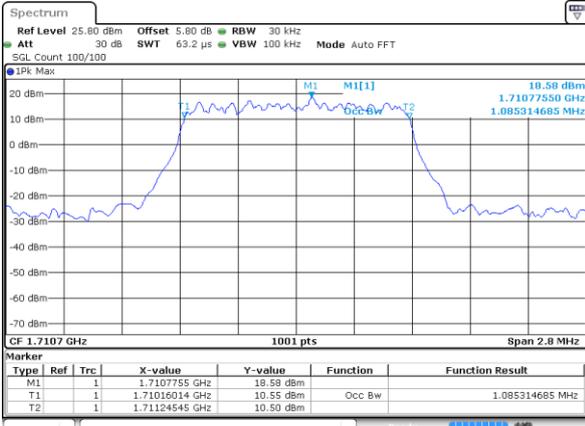


Date: 29 AUG 2019 02:16:30



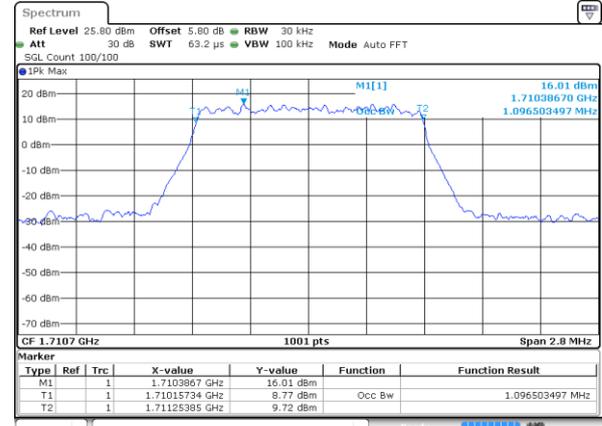
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



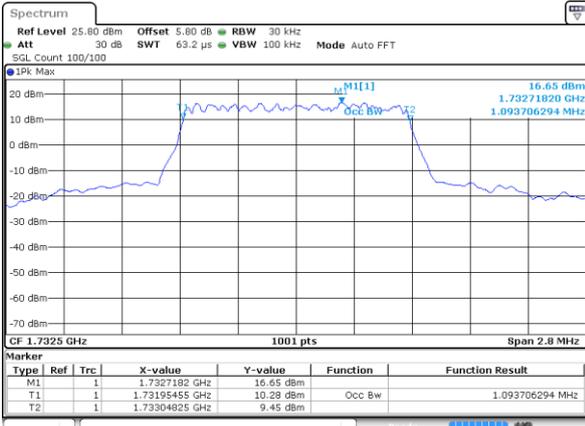
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Lowest Channel / 1.4MHz / 16QAM



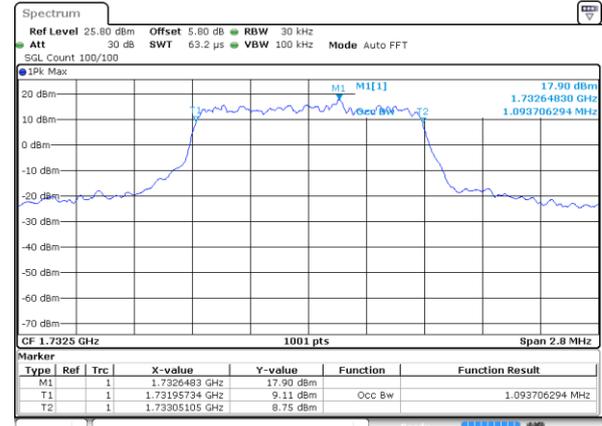
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Middle Channel / 1.4MHz / QPSK



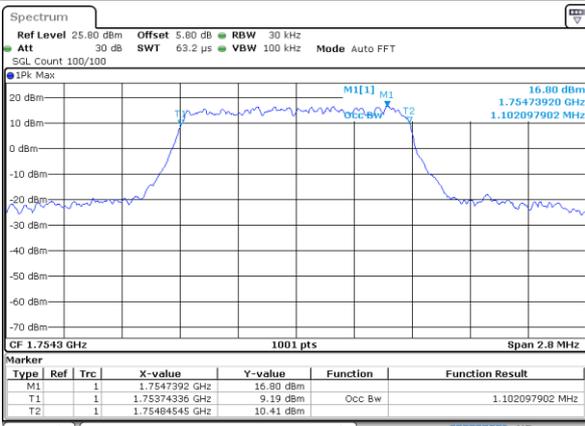
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Middle Channel / 1.4MHz / 16QAM



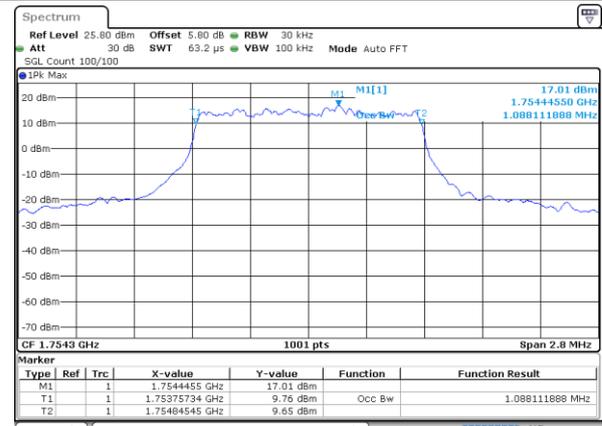
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Highest Channel / 1.4MHz / QPSK



Date: 2 SEP 2019 20:50:30

Highest Channel / 1.4MHz / 16QAM

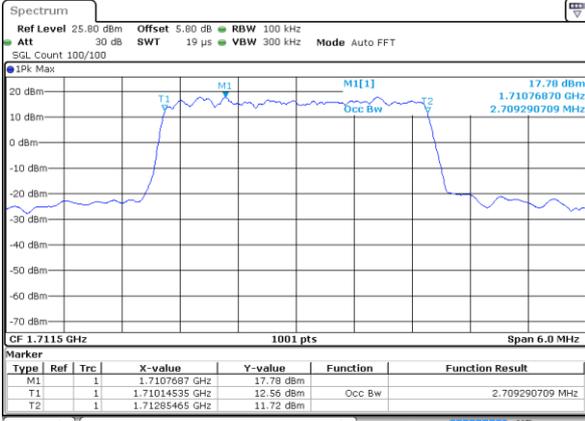


Date: 2 SEP 2019 20:50:40



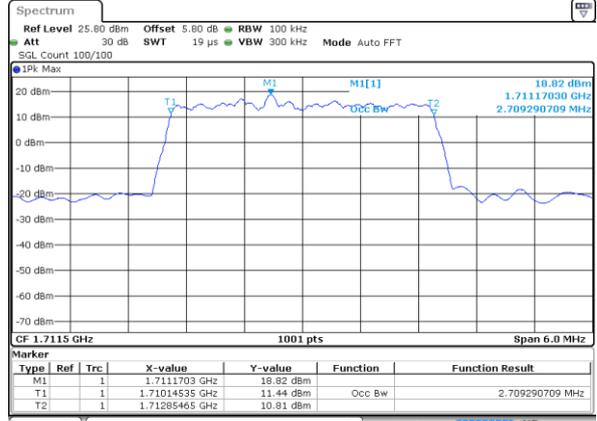
LTE Band 4

Lowest Channel / 3MHz / QPSK



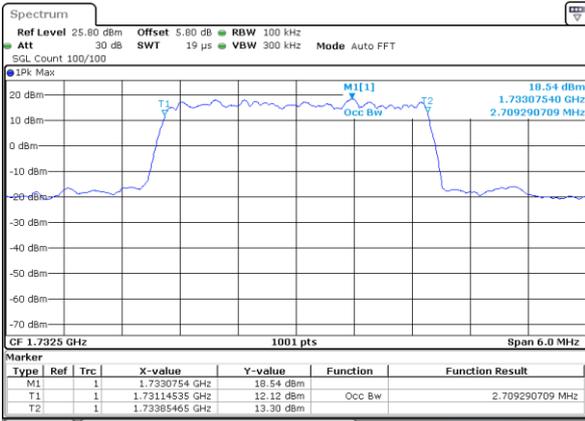
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Lowest Channel / 3MHz / 16QAM



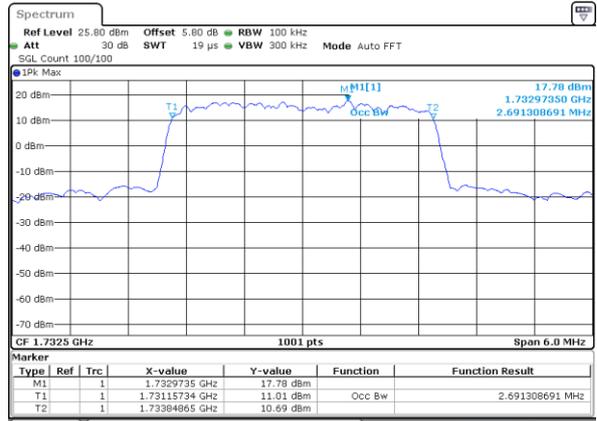
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Middle Channel / 3MHz / QPSK



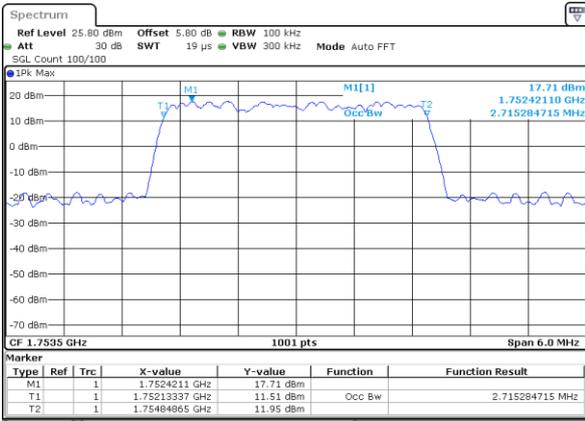
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Middle Channel / 3MHz / 16QAM



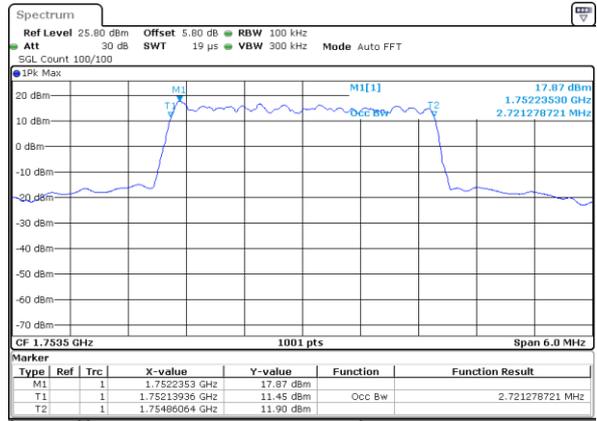
Date: 2 SEP 2019 21:04:29

Highest Channel / 3MHz / QPSK



Date: 2 SEP 2019 21:06:45

Highest Channel / 3MHz / 16QAM



Date: 2 SEP 2019 21:06:55