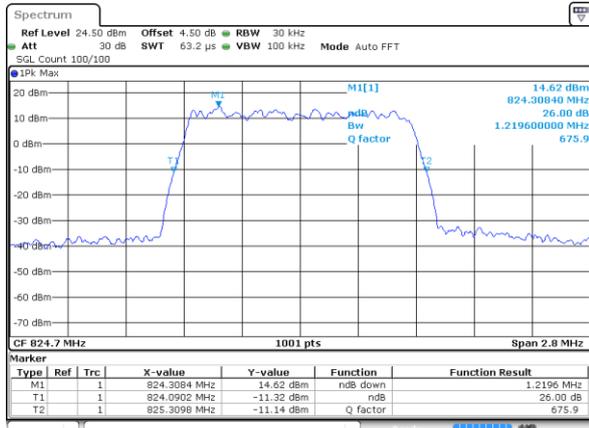




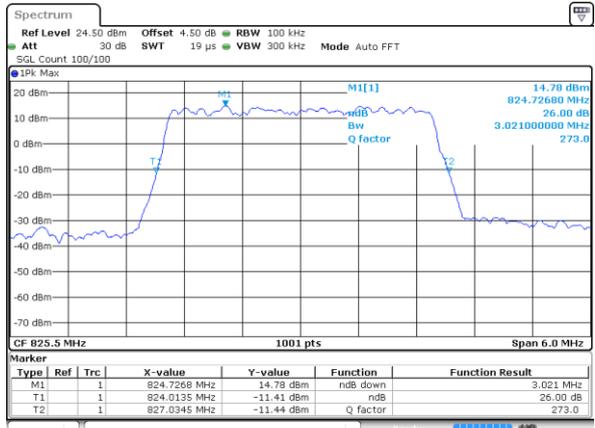
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



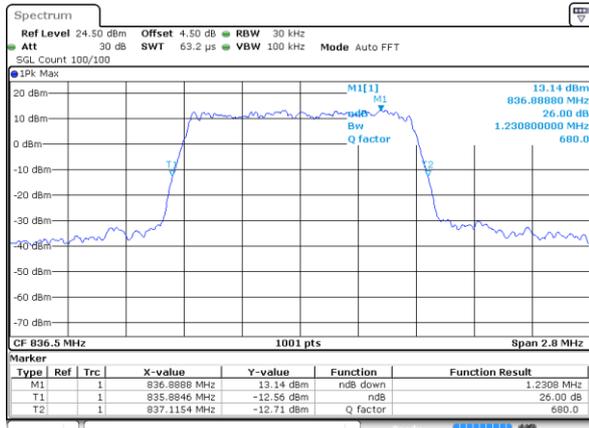
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Lowest Channel / 3MHz / 64QAM



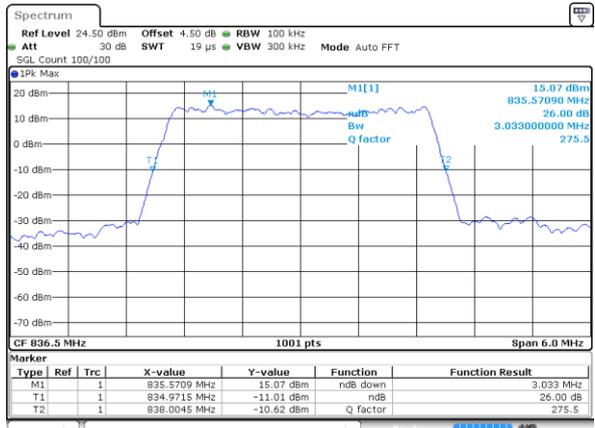
Date: 2 AUG 2018 21:06:56

Middle Channel / 1.4MHz / 64QAM



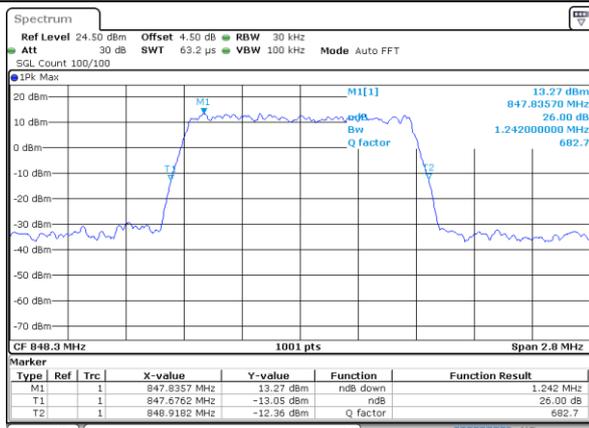
Date: 2 AUG 2018 21:01:12

Middle Channel / 3MHz / 64QAM



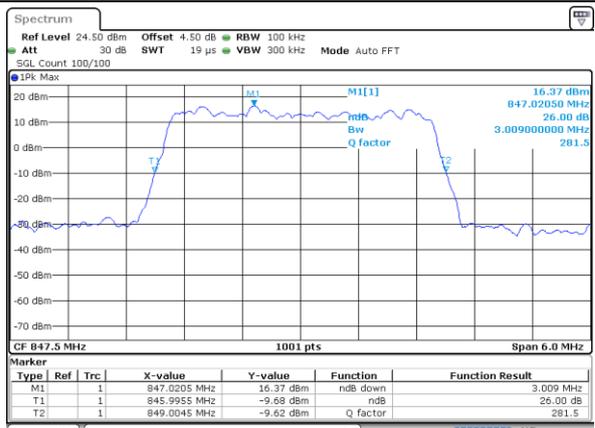
Date: 2 AUG 2018 21:11:27

Highest Channel / 1.4MHz / 64QAM



Date: 2 AUG 2018 21:02:25

Highest Channel / 3MHz / 64QAM

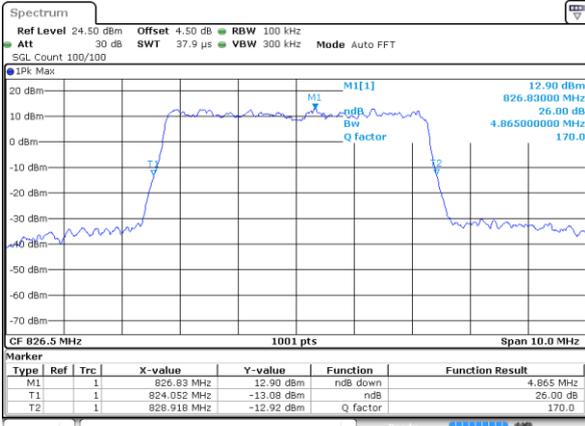


Date: 2 AUG 2018 21:12:40



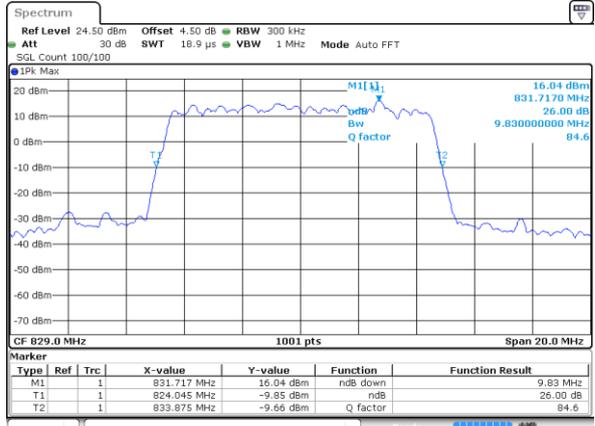
LTE Band 5

Lowest Channel / 5MHz / 64QAM



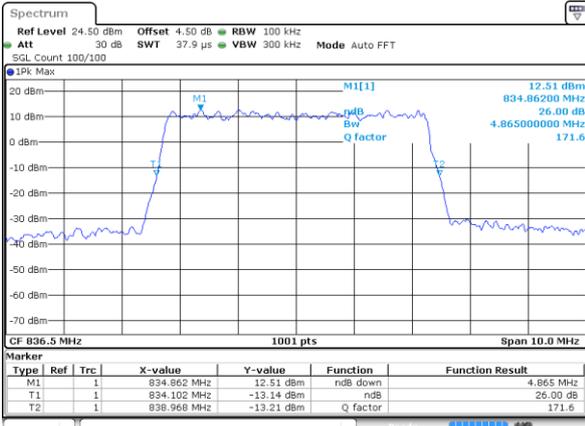
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Lowest Channel / 10MHz / 64QAM



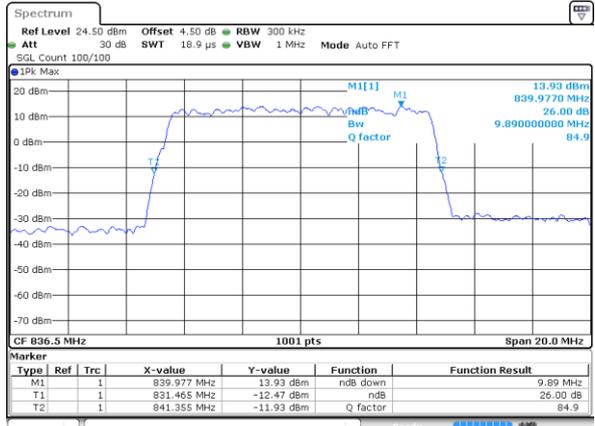
Date: 2 AUG 2018 21:27:26

Middle Channel / 5MHz / 64QAM



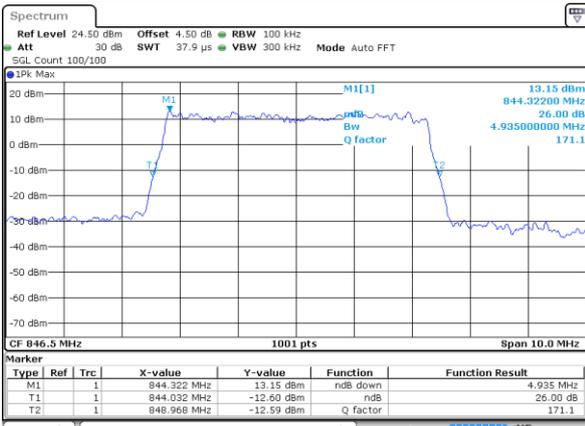
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Middle Channel / 10MHz / 64QAM



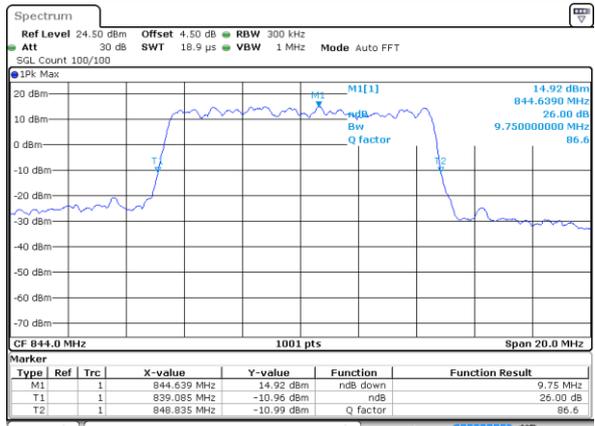
Date: 2 AUG 2018 21:31:56

Highest Channel / 5MHz / 64QAM



Date: 2 AUG 2018 21:22:55

Highest Channel / 10MHz / 64QAM

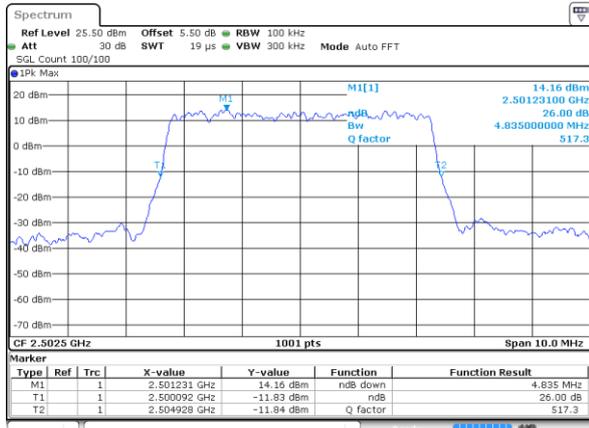


Date: 2 AUG 2018 21:33:10



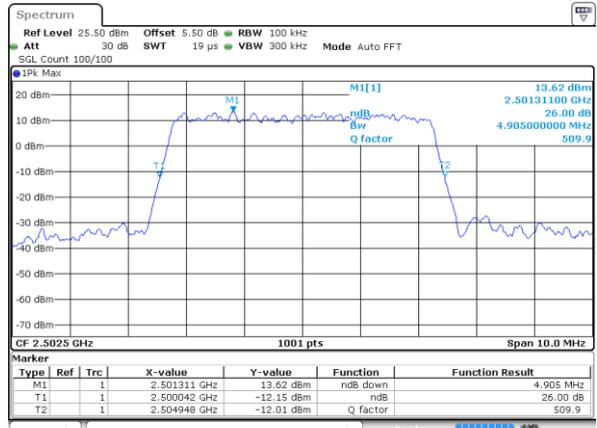
LTE Band 7

Lowest Channel / 5MHz / QPSK



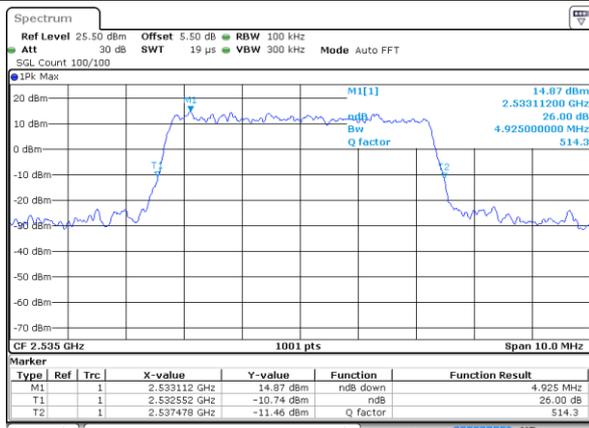
Date: 3 AUG 2018 13:59:21

Lowest Channel / 5MHz / 16QAM



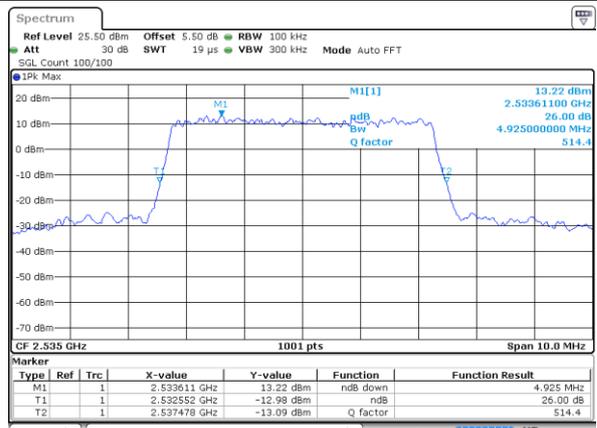
Date: 3 AUG 2018 13:59:43

Middle Channel / 5MHz / QPSK



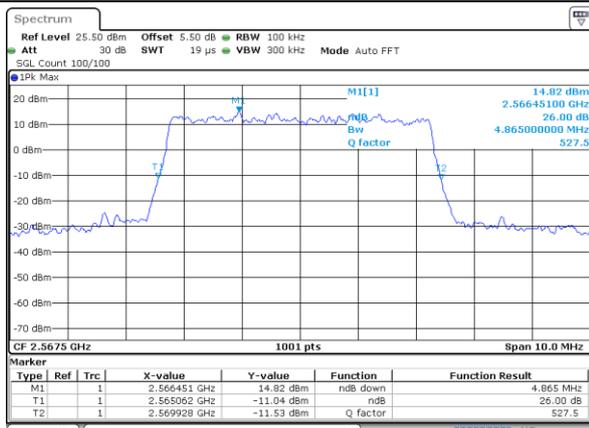
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Middle Channel / 5MHz / 16QAM



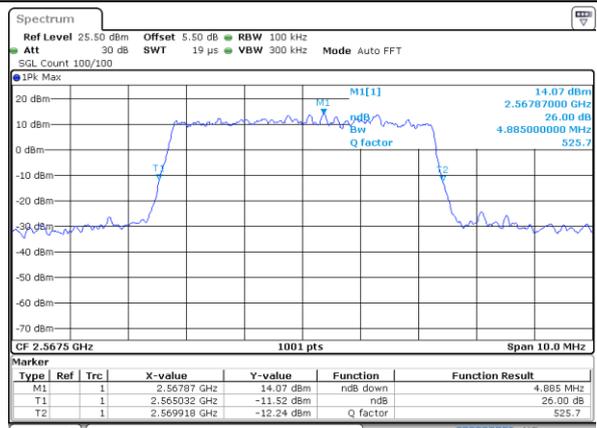
Date: 3 AUG 2018 14:03:42

Highest Channel / 5MHz / QPSK



Date: 3 AUG 2018 14:04:24

Highest Channel / 5MHz / 16QAM

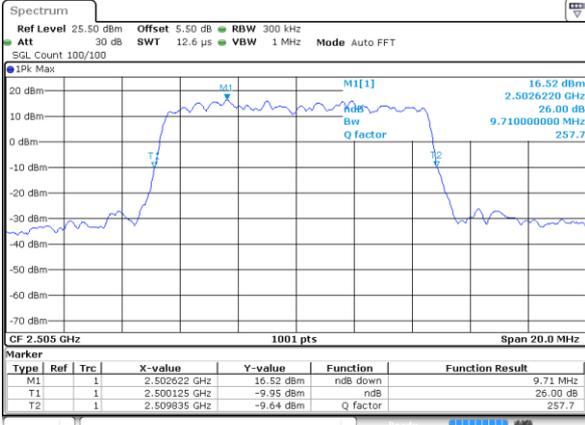


Date: 3 AUG 2018 14:04:46



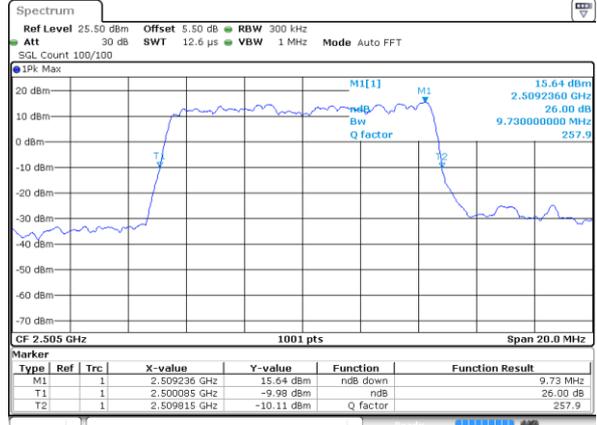
LTE Band 7

Lowest Channel / 10MHz / QPSK



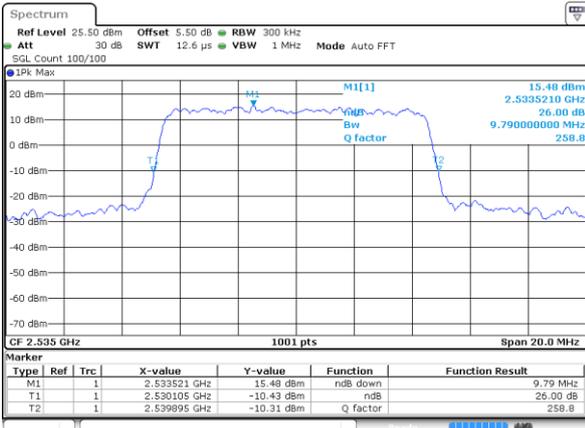
Date: 3 AUG 2018 14:11:31

Lowest Channel / 10MHz / 16QAM



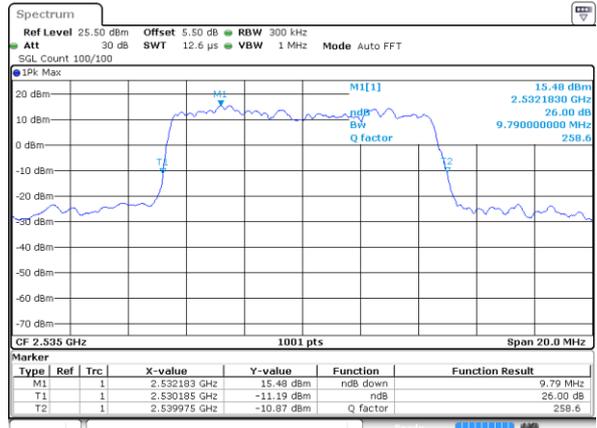
Date: 3 AUG 2018 14:11:52

Middle Channel / 10MHz / QPSK



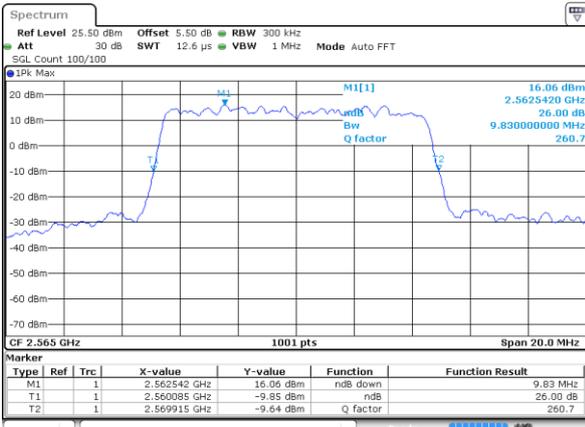
Date: 3 AUG 2018 14:16:13

Middle Channel / 10MHz / 16QAM



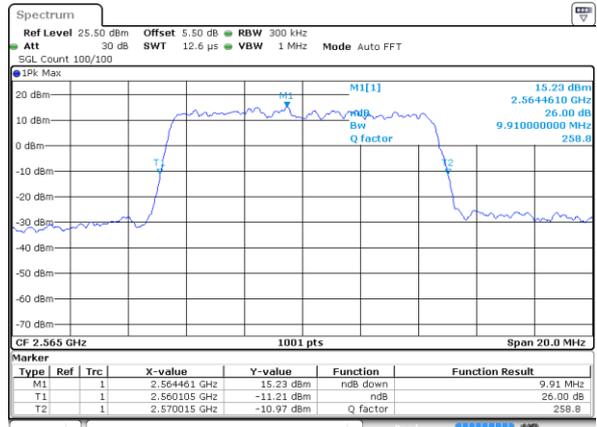
Date: 3 AUG 2018 14:15:52

Highest Channel / 10MHz / QPSK



Date: 3 AUG 2018 14:16:34

Highest Channel / 10MHz / 16QAM

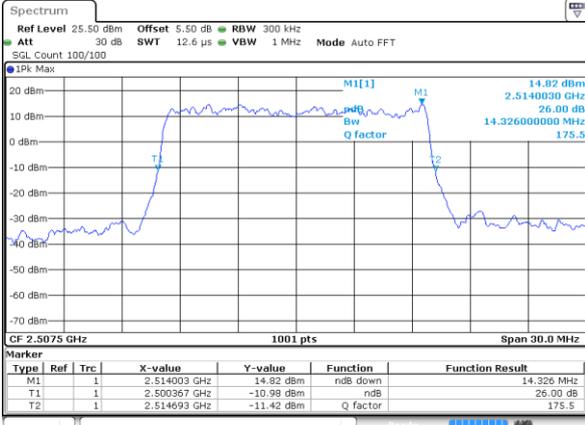


Date: 3 AUG 2018 14:16:55



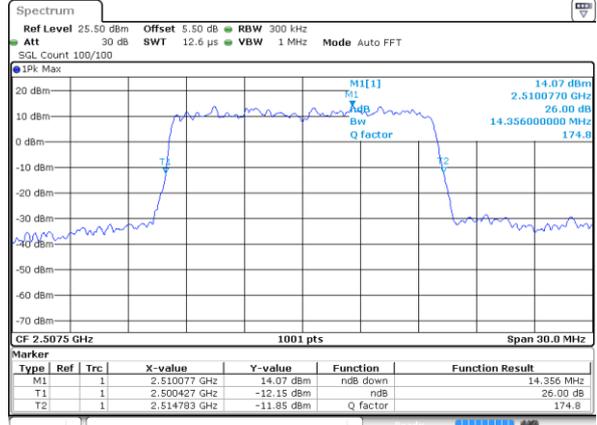
LTE Band 7

Lowest Channel / 15MHz / QPSK



Date: 3 AUG 2018 14:23:40

Lowest Channel / 15MHz / 16QAM



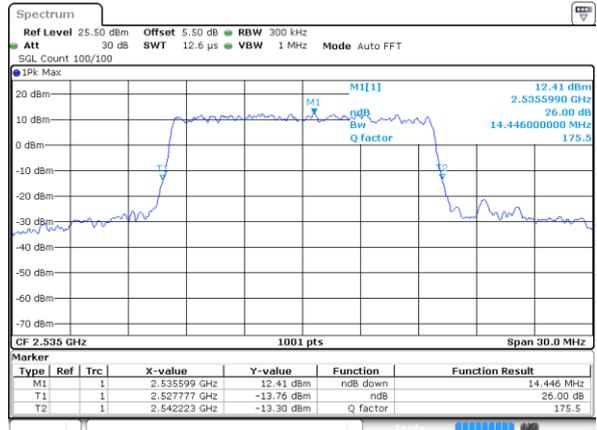
Date: 3 AUG 2018 14:24:01

Middle Channel / 15MHz / QPSK



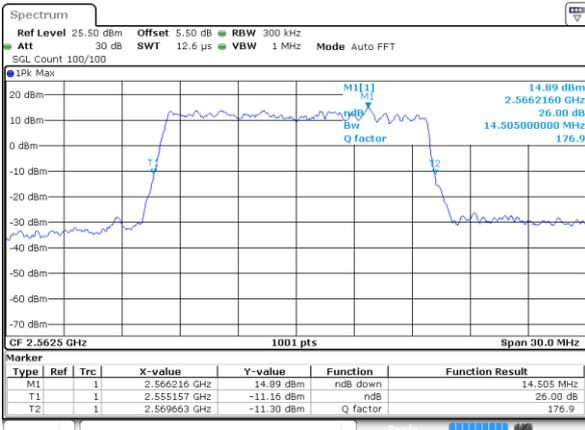
Date: 3 AUG 2018 14:28:22

Middle Channel / 15MHz / 16QAM



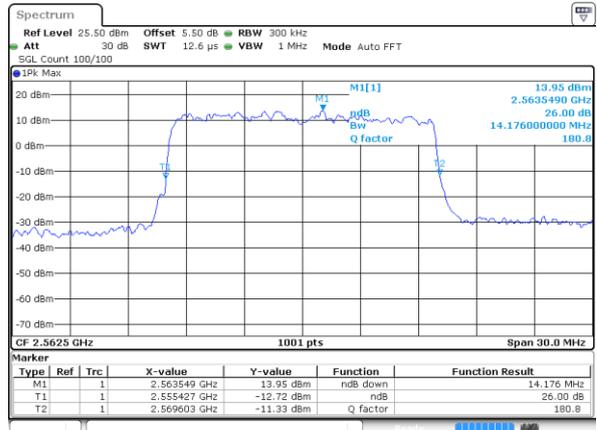
Date: 3 AUG 2018 14:28:00

Highest Channel / 15MHz / QPSK



Date: 3 AUG 2018 14:28:43

Highest Channel / 15MHz / 16QAM

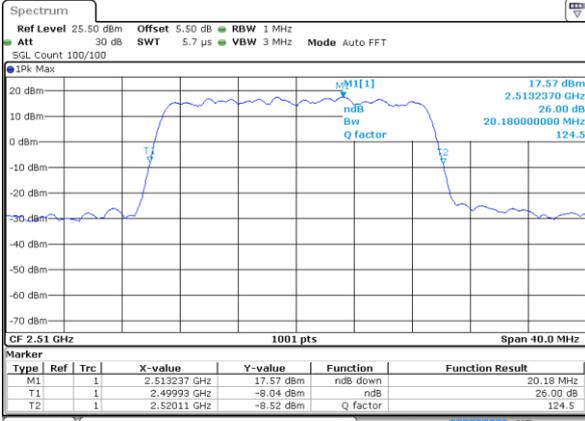


Date: 3 AUG 2018 14:29:04



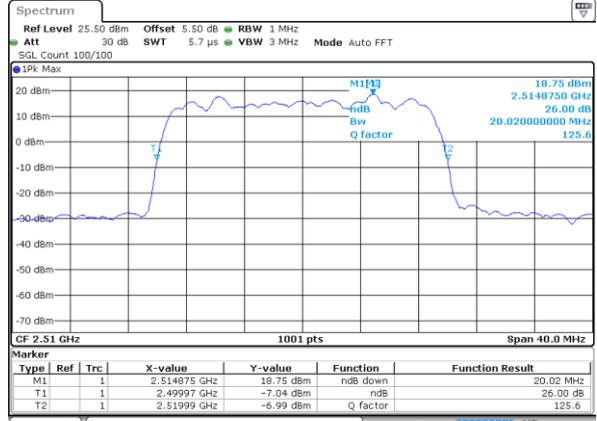
LTE Band 7

Lowest Channel / 20MHz / QPSK



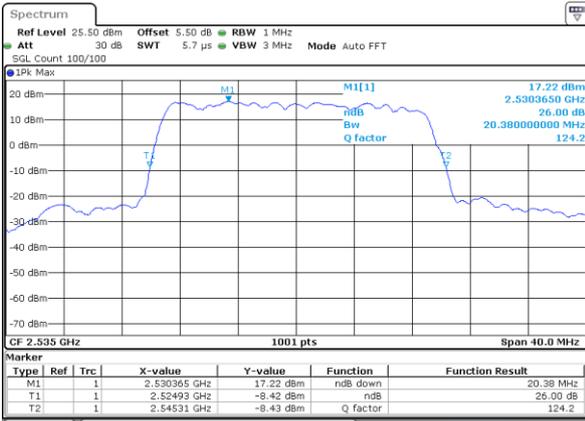
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Lowest Channel / 20MHz / 16QAM



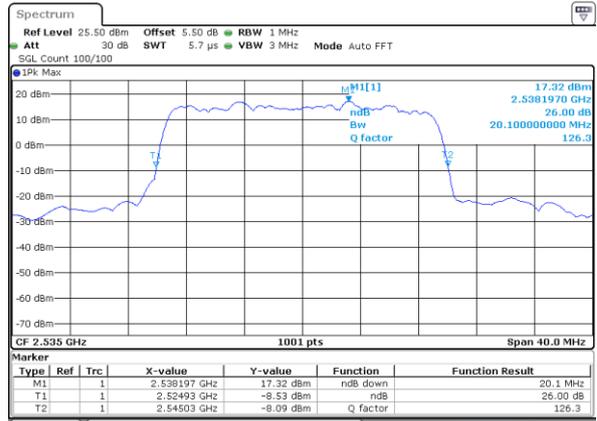
Date: 3 AUG 2018 14:36:10

Middle Channel / 20MHz / QPSK



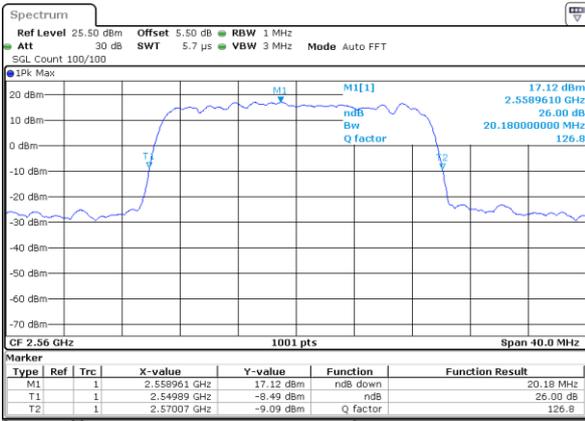
Date: 3 AUG 2018 14:40:30

Middle Channel / 20MHz / 16QAM



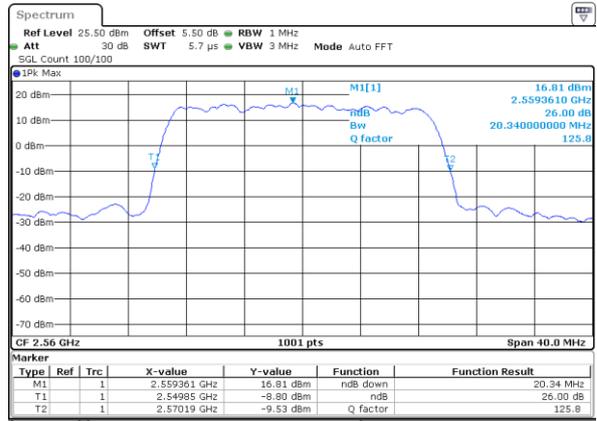
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Highest Channel / 20MHz / QPSK



Date: 3 AUG 2018 14:40:51

Highest Channel / 20MHz / 16QAM

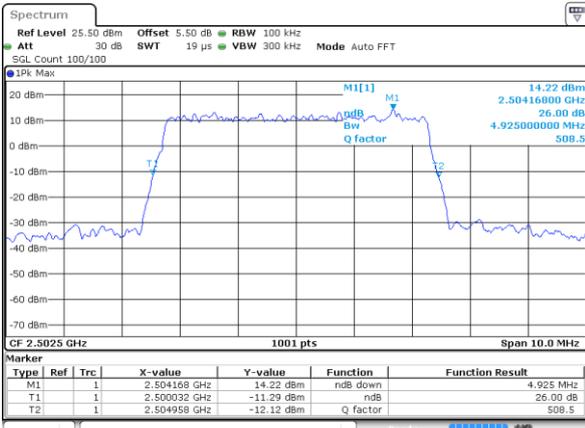


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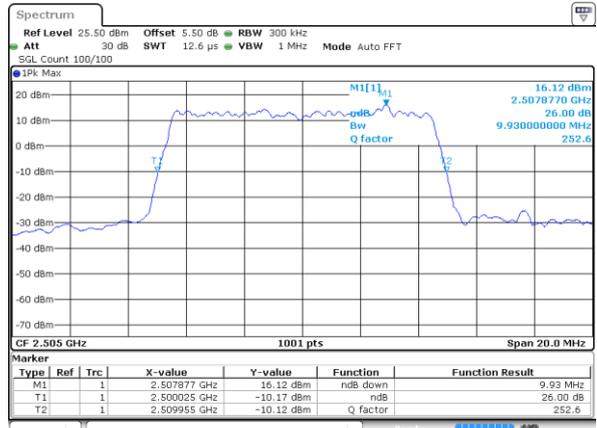
LTE Band 7

Lowest Channel / 5MHz / 64QAM



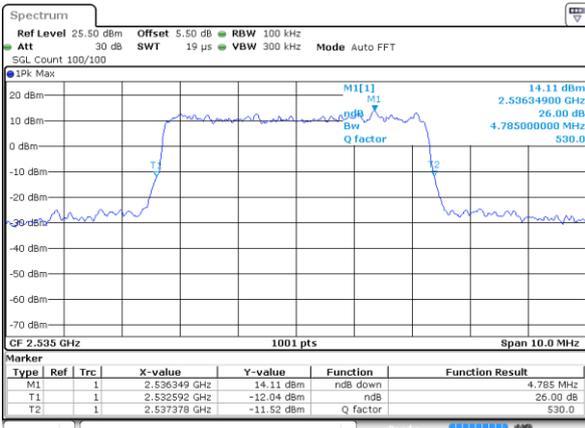
Date: 3 AUG 2018 15:12:42

Lowest Channel / 10MHz / 64QAM



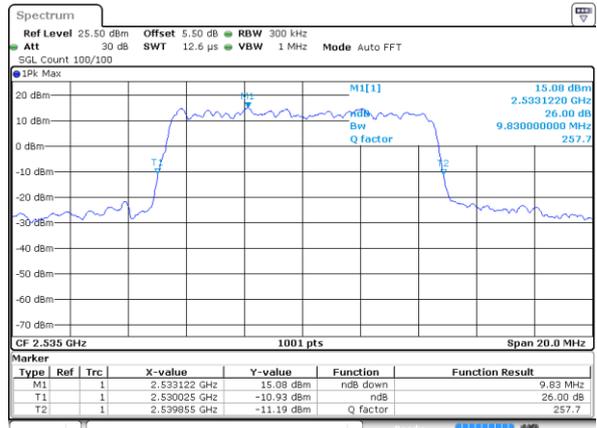
Date: 3 AUG 2018 15:13:46

Middle Channel / 5MHz / 64QAM



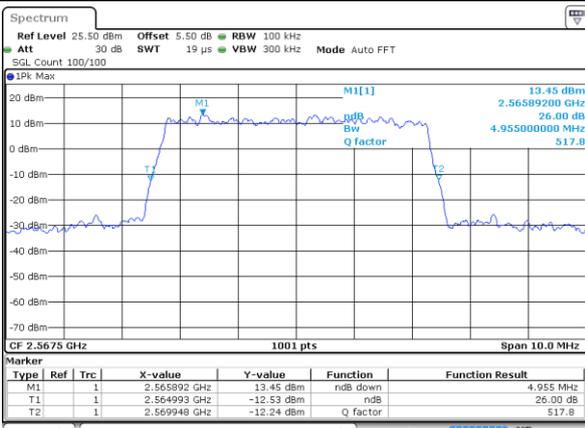
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Middle Channel / 10MHz / 64QAM



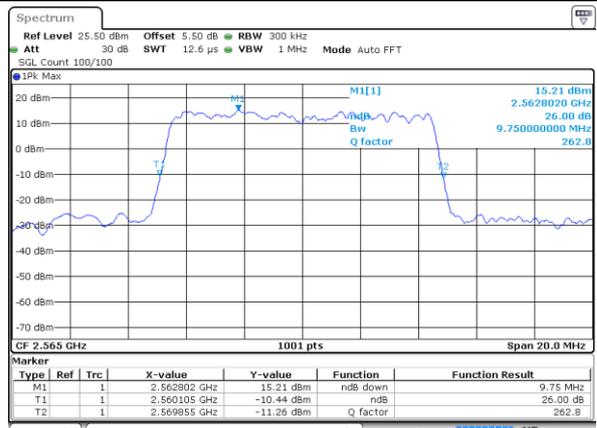
Date: 3 AUG 2018 15:14:07

Highest Channel / 5MHz / 64QAM



Date: 3 AUG 2018 15:13:25

Highest Channel / 10MHz / 64QAM

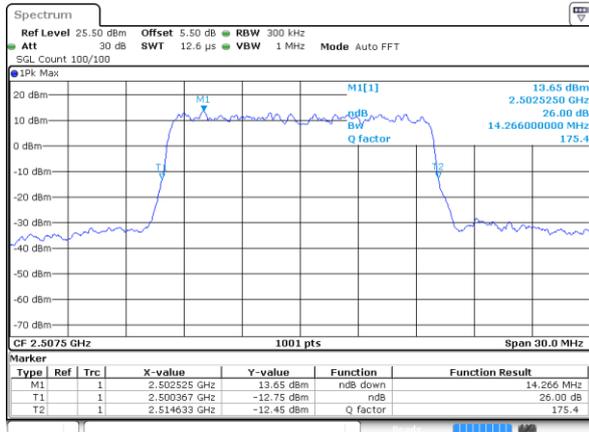


Date: 3 AUG 2018 15:14:29



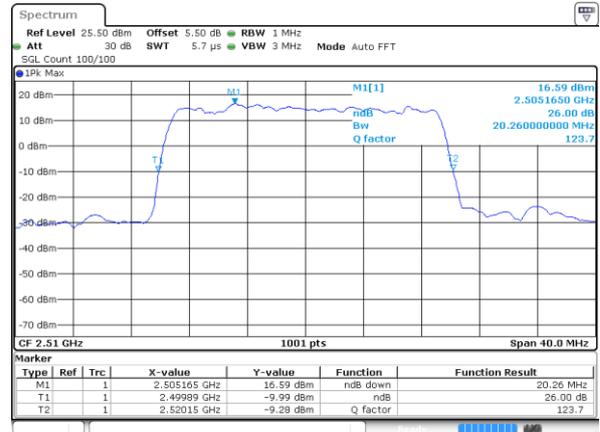
LTE Band 7

Lowest Channel / 15MHz / 64QAM



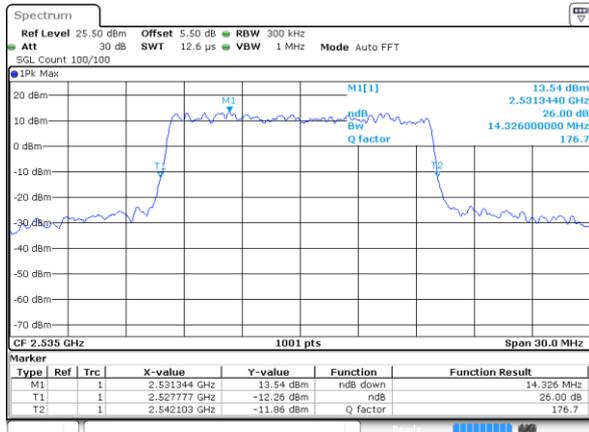
Date: 3 AUG 2018 15:14:50

Lowest Channel / 20MHz / 64QAM



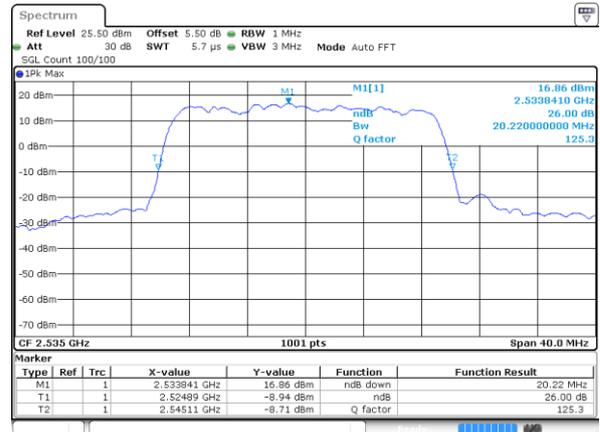
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Middle Channel / 15MHz / 64QAM



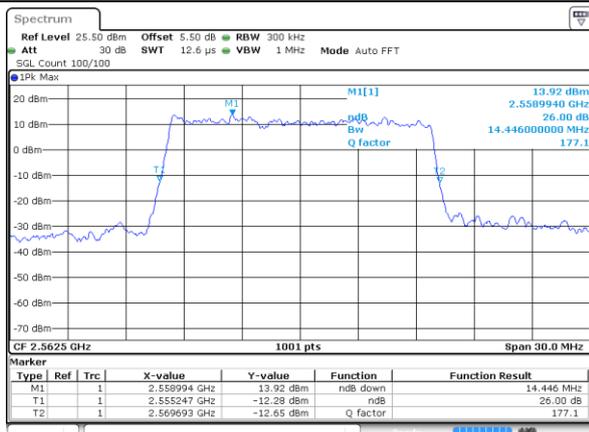
Date: 3 AUG 2018 15:15:11

Middle Channel / 20MHz / 64QAM



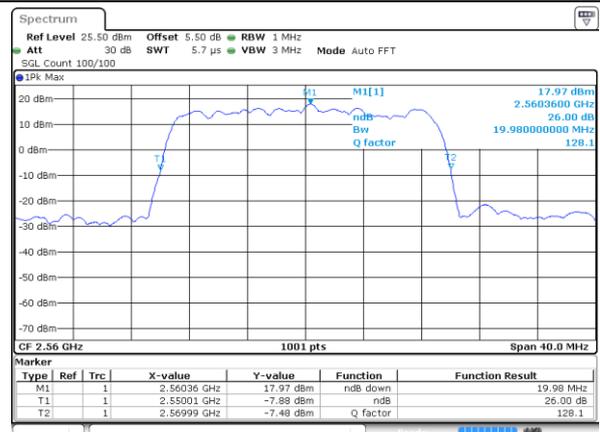
Date: 3 AUG 2018 15:16:15

Highest Channel / 15MHz / 64QAM



Date: 3 AUG 2018 15:15:33

Highest Channel / 20MHz / 64QAM

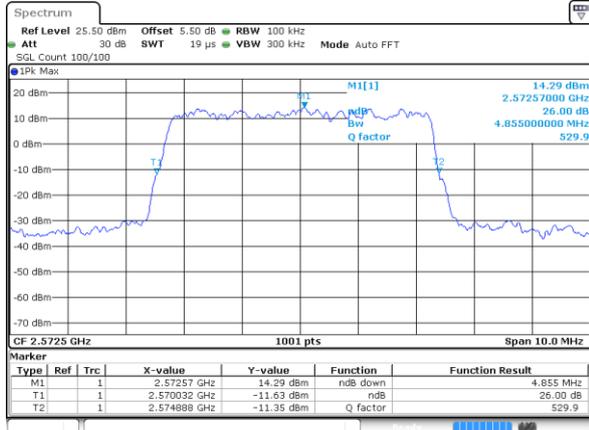


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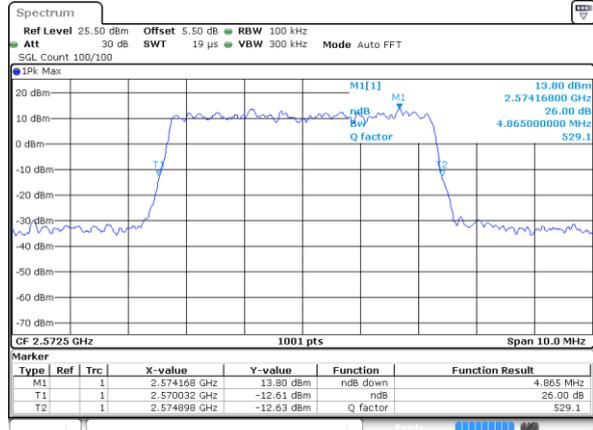
LTE Band 38

Lowest Channel / 5MHz / QPSK



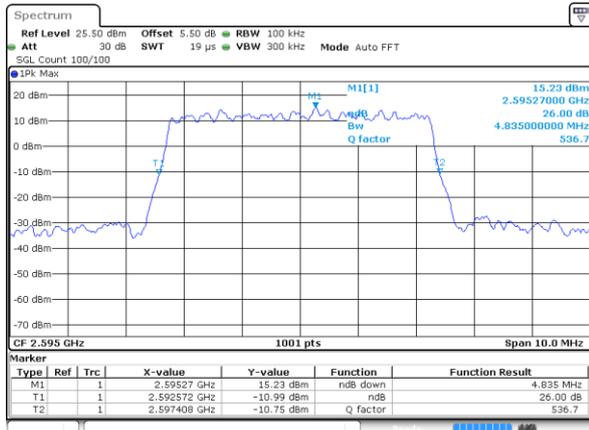
Date: 3 AUG 2018 19:23:04

Lowest Channel / 5MHz / 16QAM



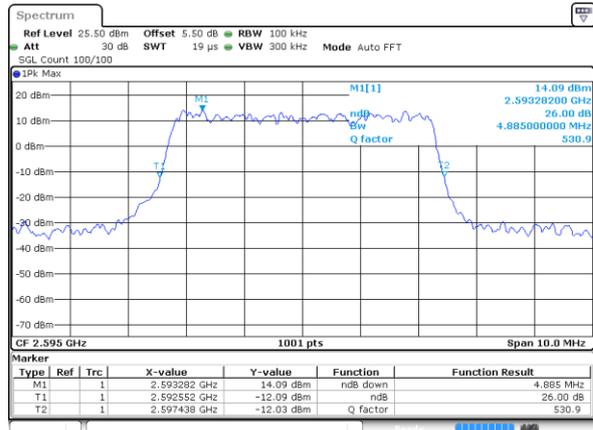
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Middle Channel / 5MHz / QPSK



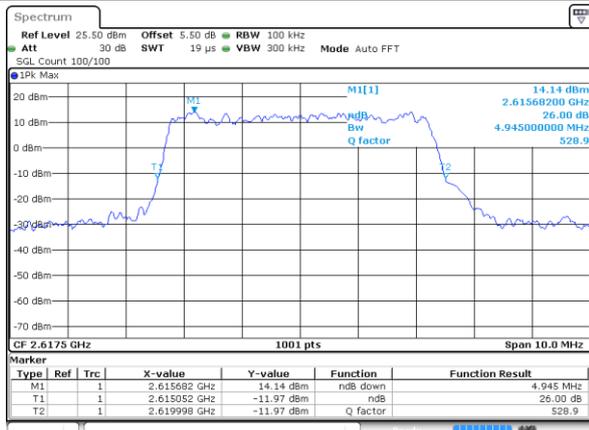
Date: 3 AUG 2018 19:23:46

Middle Channel / 5MHz / 16QAM



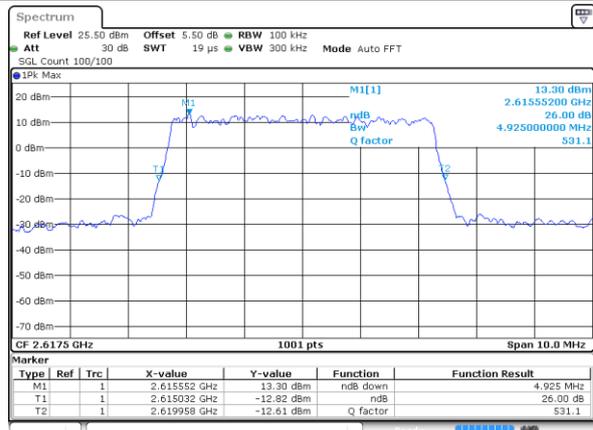
Date: 3 AUG 2018 19:23:57

Highest Channel / 5MHz / QPSK



Date: 3 AUG 2018 19:24:29

Highest Channel / 5MHz / 16QAM



Date: 3 AUG 2018 19:24:40



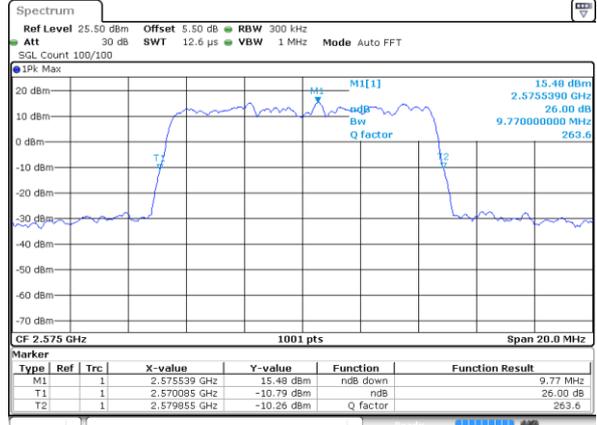
LTE Band 38

Lowest Channel / 10MHz / QPSK



Date: 3 AUG 2018 19:25:12

Lowest Channel / 10MHz / 16QAM



Date: 3 AUG 2018 19:25:23

Middle Channel / 10MHz / QPSK



Date: 3 AUG 2018 19:25:55

Middle Channel / 10MHz / 16QAM



Date: 3 AUG 2018 19:26:06

Highest Channel / 10MHz / QPSK



Date: 3 AUG 2018 19:26:38

Highest Channel / 10MHz / 16QAM

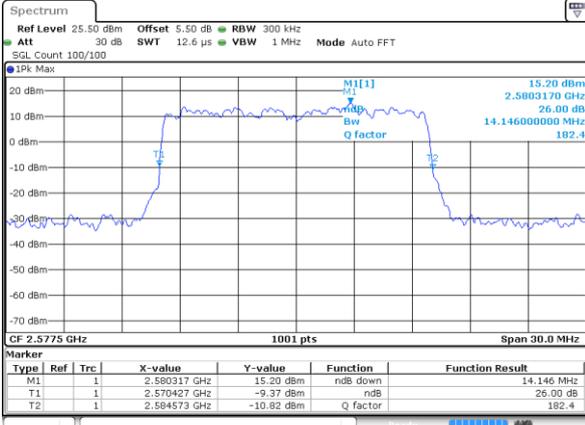


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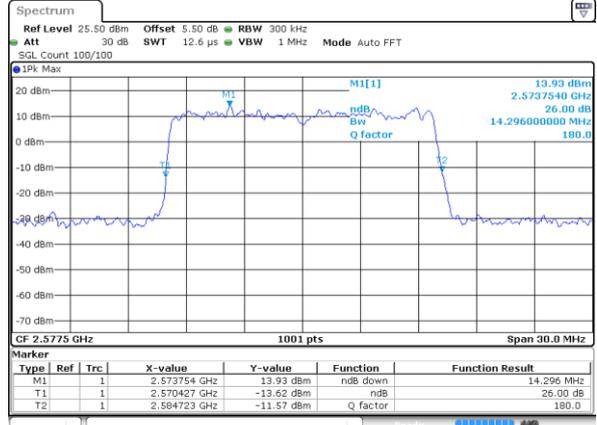
LTE Band 38

Lowest Channel / 15MHz / QPSK



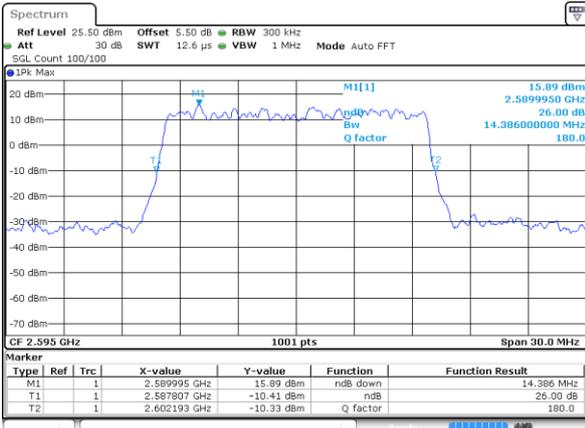
Date: 3 AUG 2018 19:27:21

Lowest Channel / 15MHz / 16QAM



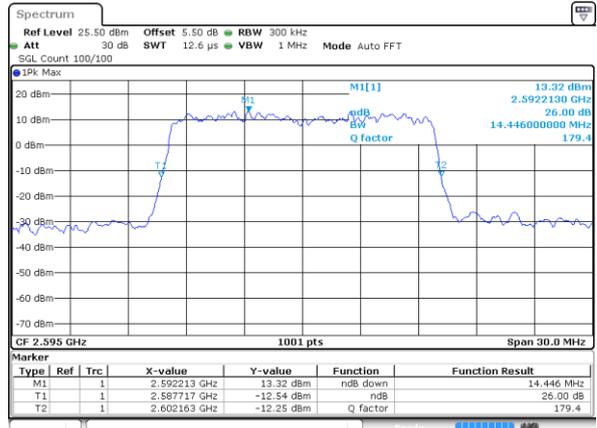
Date: 3 AUG 2018 19:27:31

Middle Channel / 15MHz / QPSK



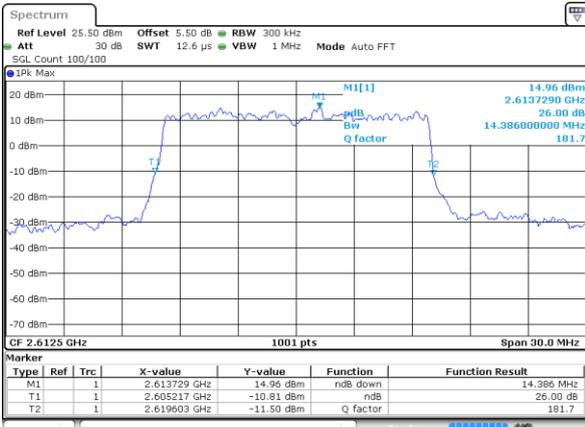
Date: 3 AUG 2018 19:28:03

Middle Channel / 15MHz / 16QAM



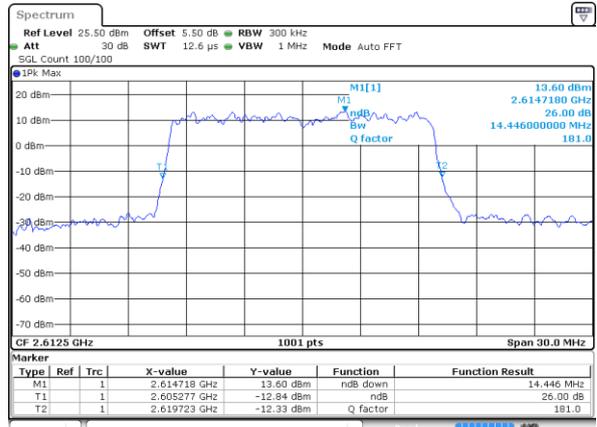
Date: 3 AUG 2018 19:28:14

Highest Channel / 15MHz / QPSK



Date: 3 AUG 2018 19:28:46

Highest Channel / 15MHz / 16QAM

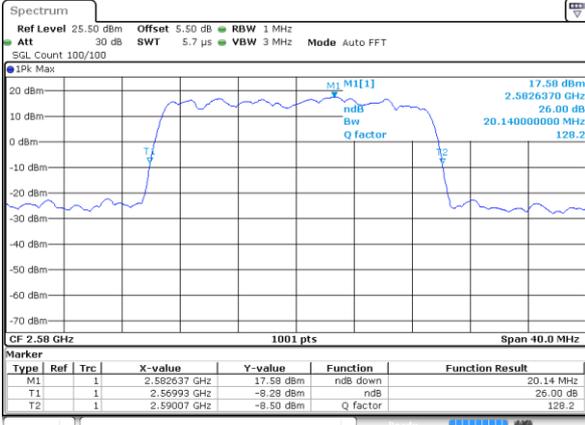


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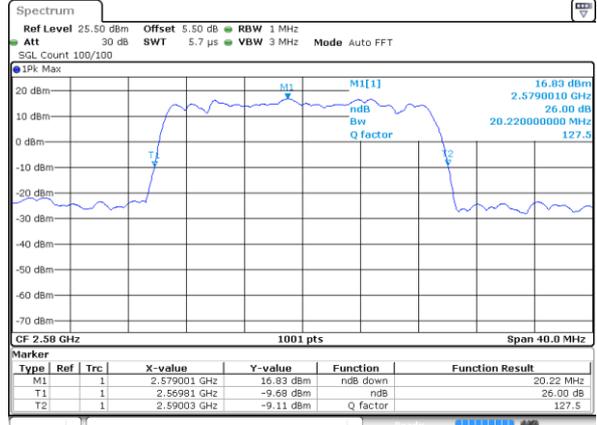
LTE Band 38

Lowest Channel / 20MHz / QPSK



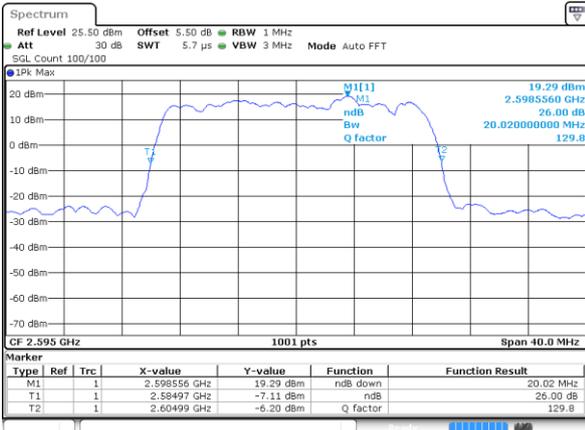
Date: 3 AUG 2018 19:29:29

Lowest Channel / 20MHz / 16QAM



Date: 3 AUG 2018 19:29:40

Middle Channel / 20MHz / QPSK



Date: 3 AUG 2018 19:30:12

Middle Channel / 20MHz / 16QAM



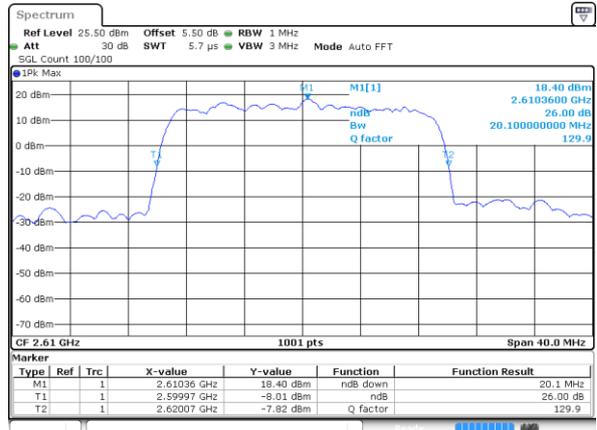
Date: 3 AUG 2018 19:30:23

Highest Channel / 20MHz / QPSK



Date: 3 AUG 2018 19:30:55

Highest Channel / 20MHz / 16QAM

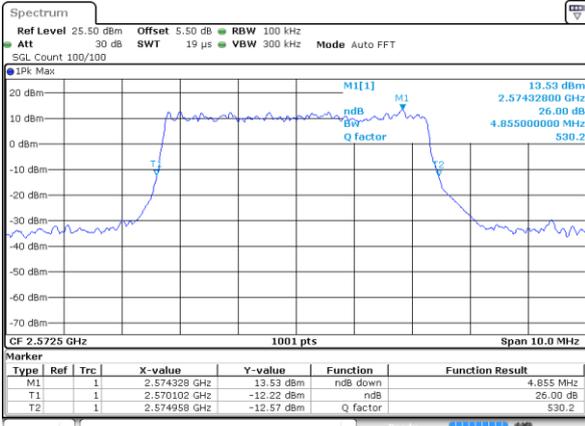


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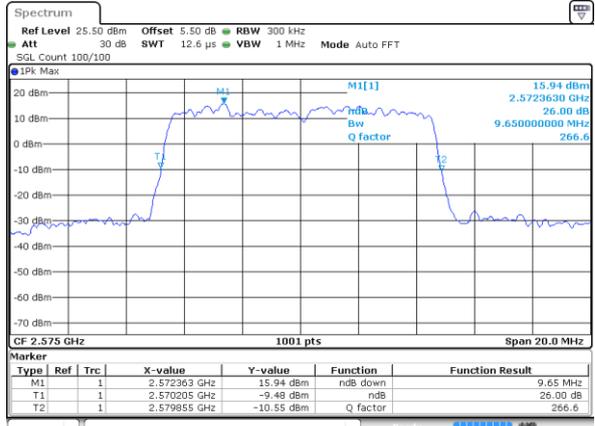
LTE Band 38

Lowest Channel / 5MHz / 64QAM



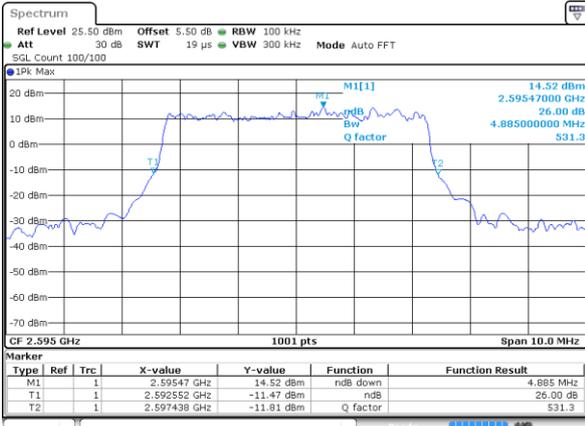
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Lowest Channel / 10MHz / 64QAM



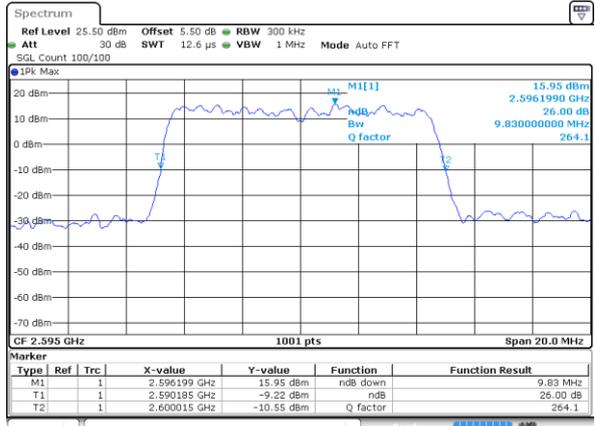
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Middle Channel / 5MHz / 64QAM



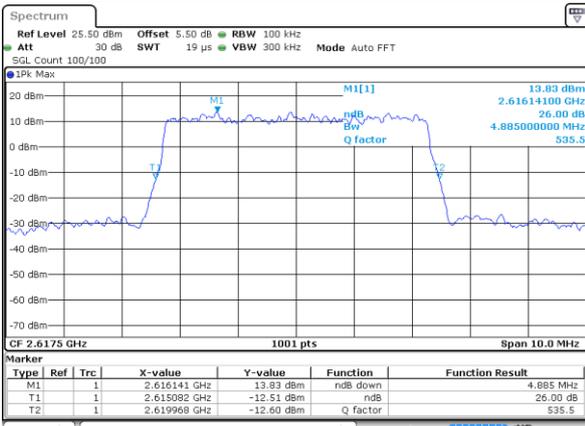
Date: 3 AUG 2018 19:31:48

Middle Channel / 10MHz / 64QAM



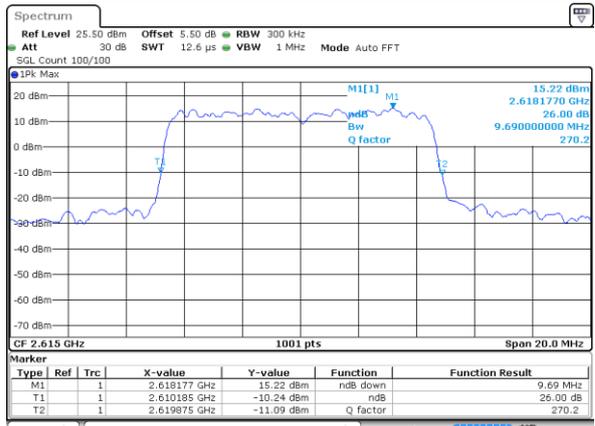
Date: 3 AUG 2018 19:32:52

Highest Channel / 5MHz / 64QAM



Date: 3 AUG 2018 19:32:10

Highest Channel / 10MHz / 64QAM

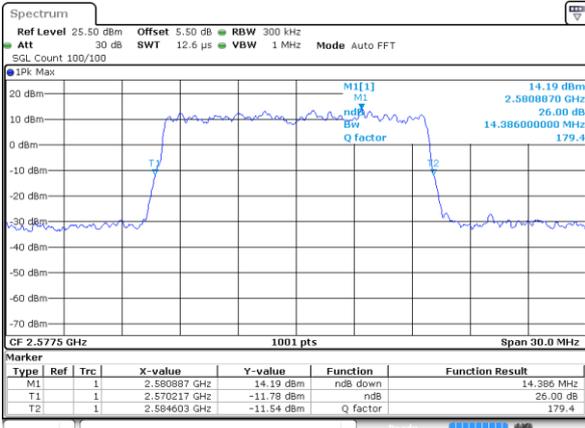


Date: 3 AUG 2018 19:33:14



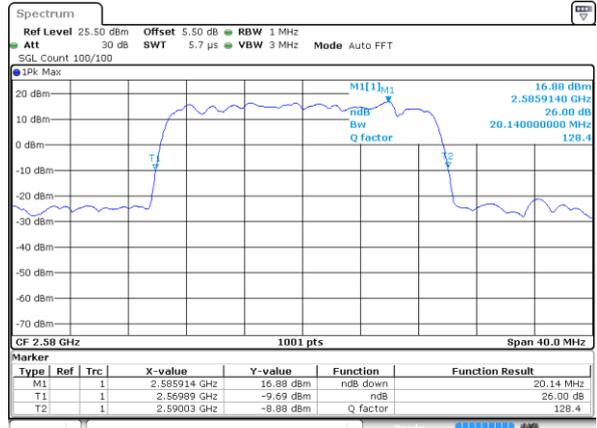
LTE Band 38

Lowest Channel / 15MHz / 64QAM



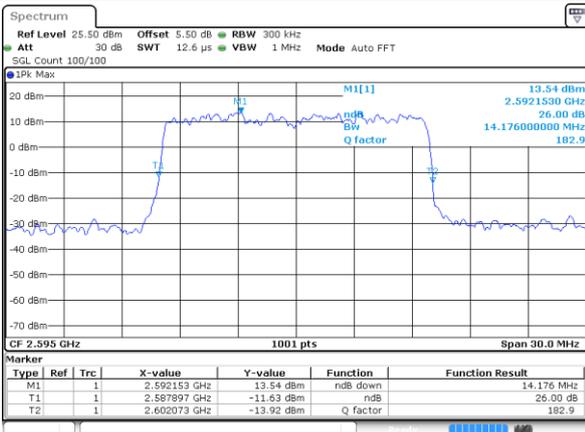
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Lowest Channel / 20MHz / 64QAM



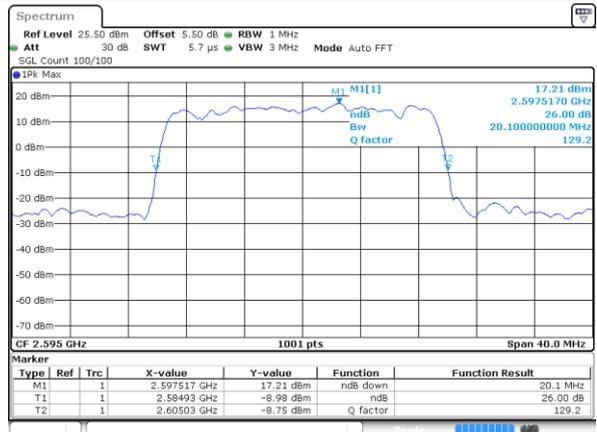
Date: 3 AUG 2018 19:34:39

Middle Channel / 15MHz / 64QAM



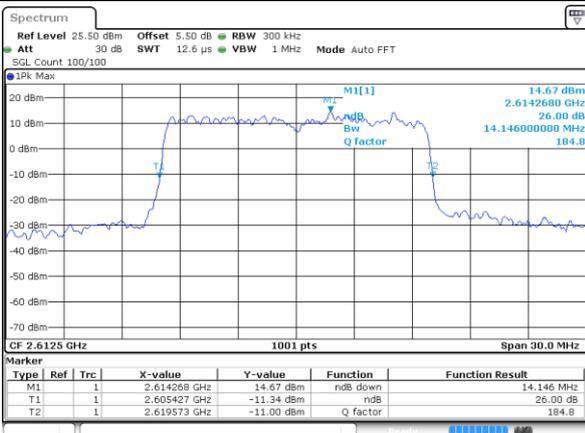
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Middle Channel / 20MHz / 64QAM



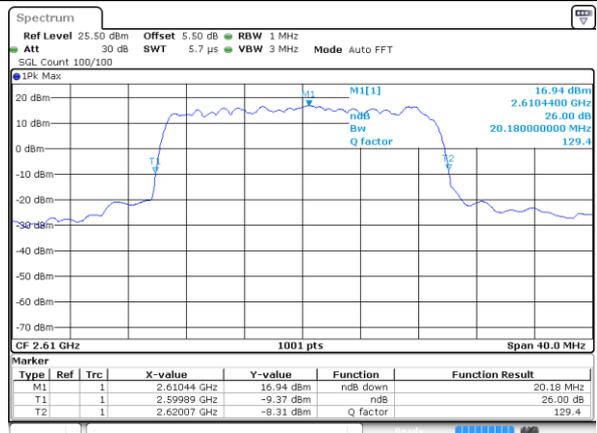
Date: 3 AUG 2018 19:35:01

Highest Channel / 15MHz / 64QAM



Date: 3 AUG 2018 19:34:18

Highest Channel / 20MHz / 64QAM



Date: 3 AUG 2018 19:35:22

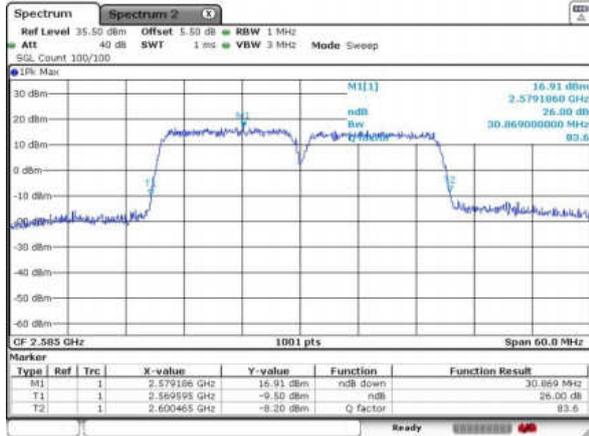


For CA

LTE Band 38

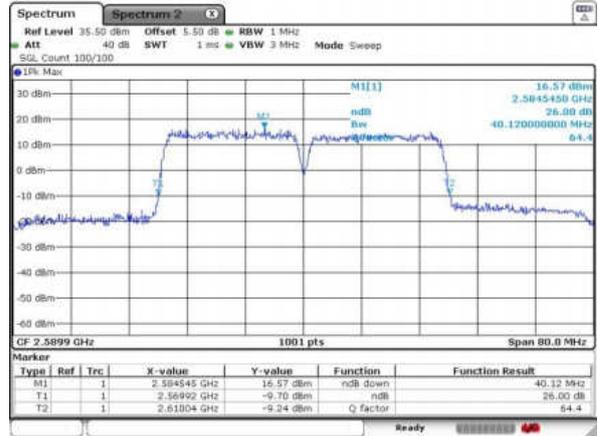
QPSK

Lowest Channel / 15MHz+15MHz



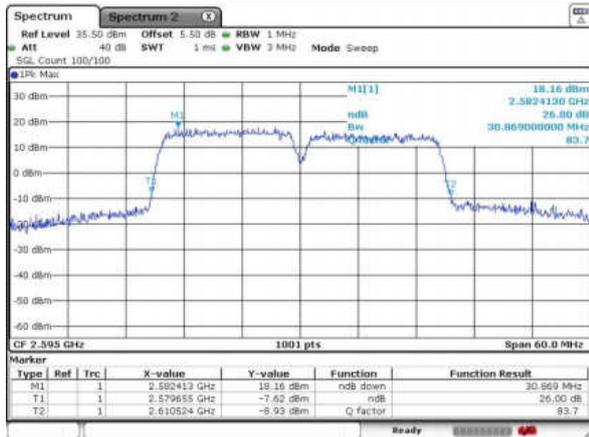
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Lowest Channel / 20MHz+20MHz



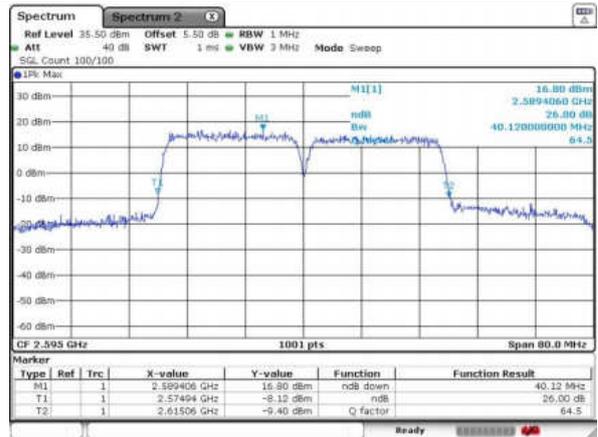
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Middle Channel / 15MHz+15MHz



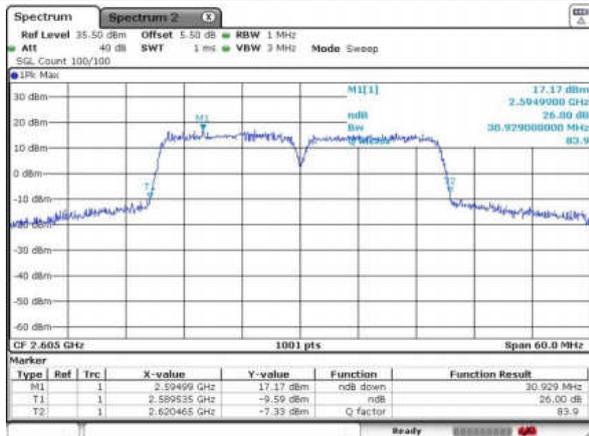
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Middle Channel / 20MHz+20MHz



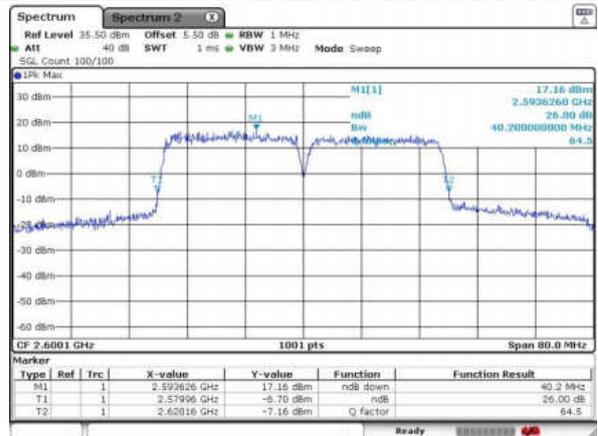
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Highest Channel / 15MHz+15MHz



Date: 24 AUG 2018 16:21:04

Highest Channel / 20MHz+20MHz



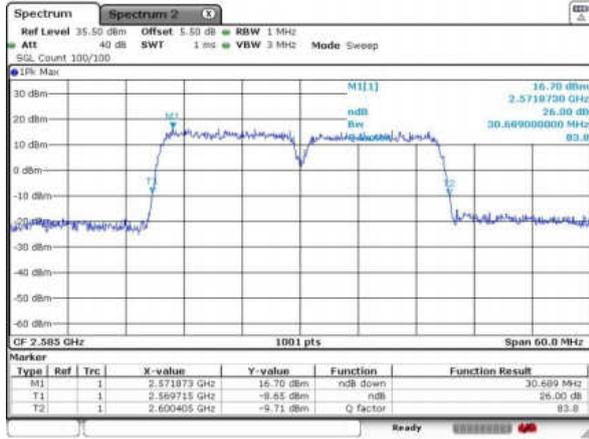
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LTE Band 38

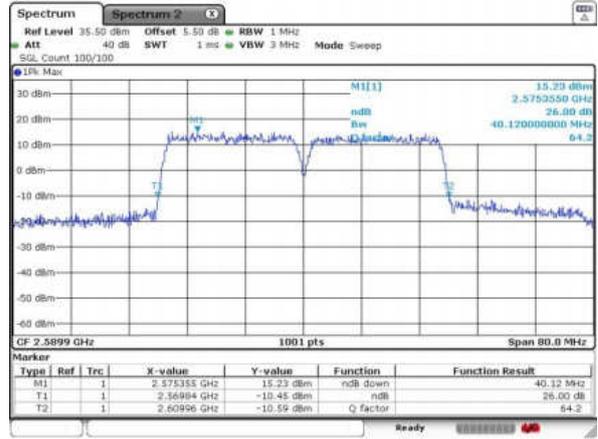
16QAM

Lowest Channel / 15MHz+15MHz



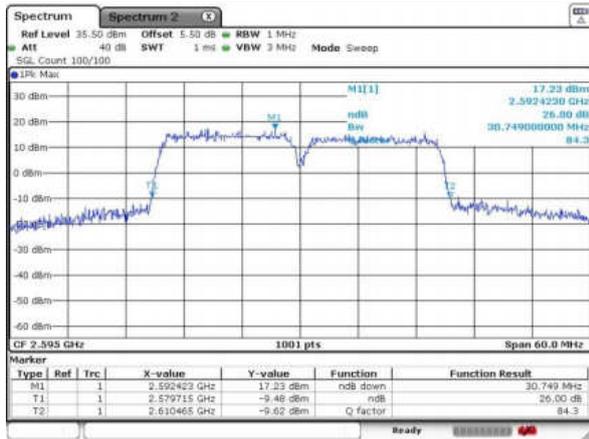
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Lowest Channel / 20MHz+20MHz



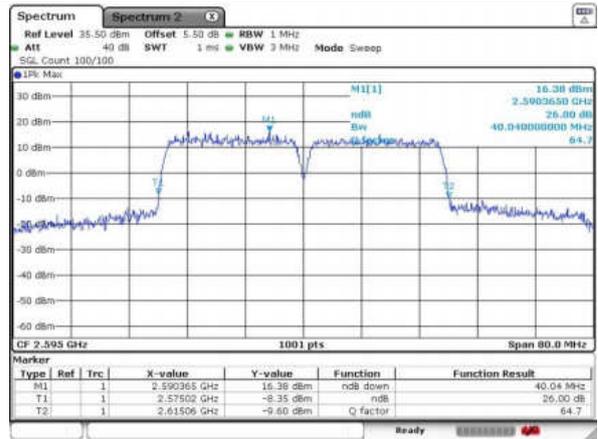
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Middle Channel / 15MHz+15MHz



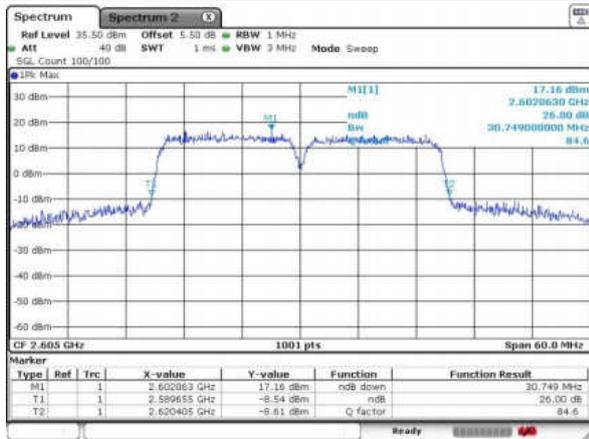
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Middle Channel / 20MHz+20MHz



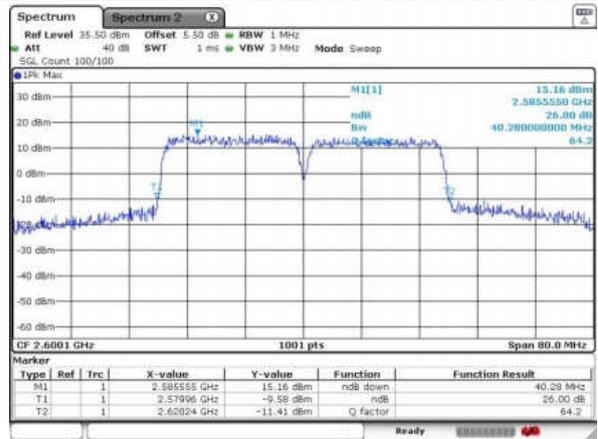
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Highest Channel / 15MHz+15MHz



Date: 24 AUG 2018 16:20:36

Highest Channel / 20MHz+20MHz



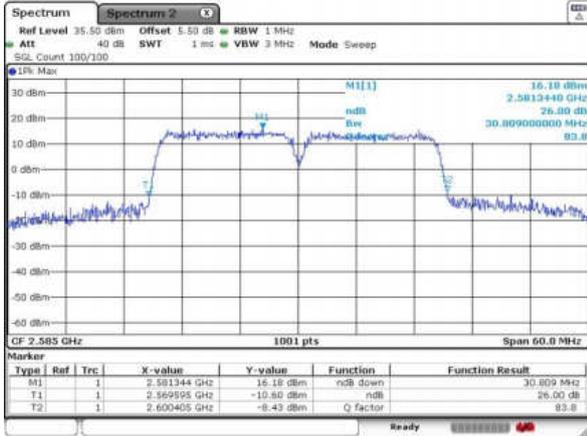
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LTE Band 38

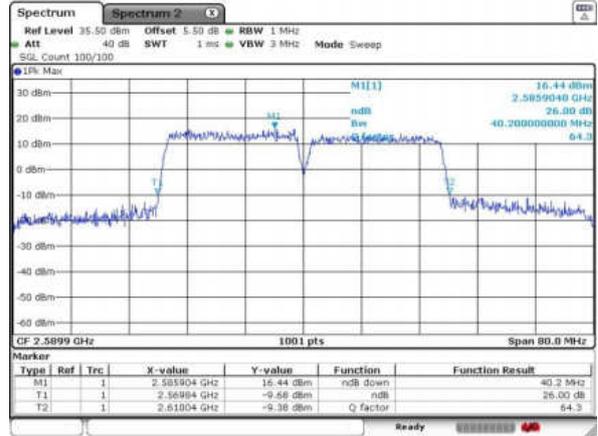
64QAM

Lowest Channel / 15MHz+15MHz



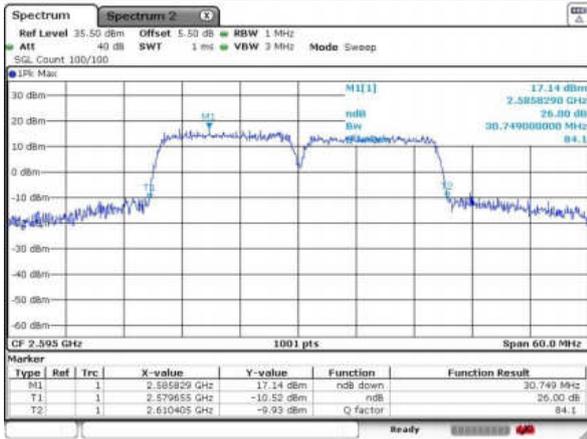
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Lowest Channel / 20MHz+20MHz



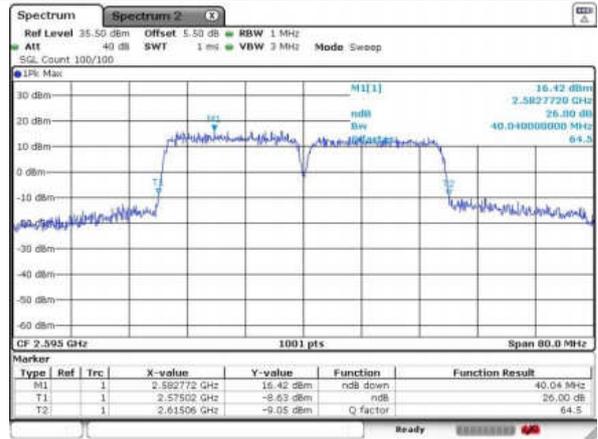
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Middle Channel / 15MHz+15MHz



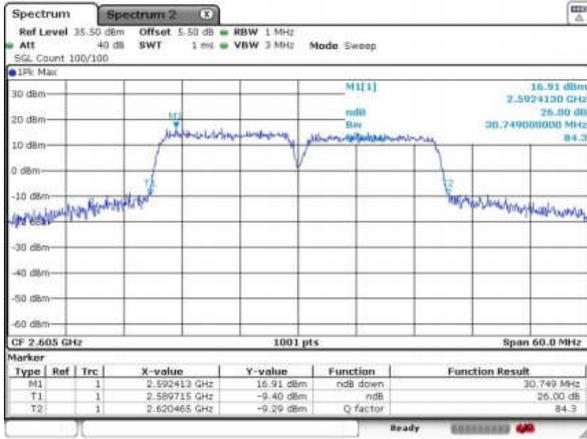
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Middle Channel / 20MHz+20MHz



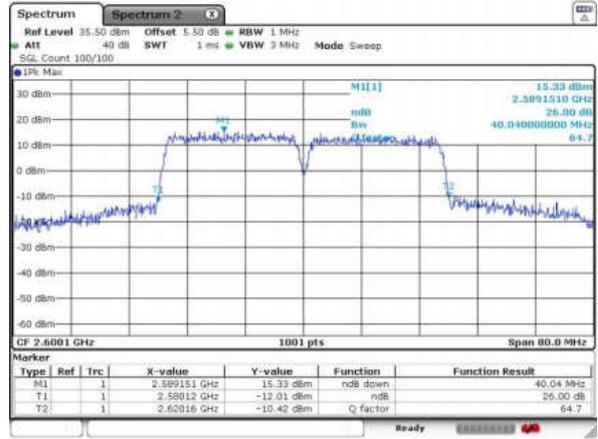
Date: 24 AUG 2018 15:49:13

Highest Channel / 15MHz+15MHz



Date: 24 AUG 2018 16:19:28

Highest Channel / 20MHz+20MHz



Date: 24 AUG 2018 15:50:41



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	2.72	2.72	4.5	4.48	8.97	8.99	13.43	13.43	18.3	18.18	
Middle CH	1.08	1.09	2.72	2.7	4.49	4.51	9.03	9.03	13.43	13.37	18.38	18.22	
Highest CH	1.09	1.08	2.72	2.72	4.49	4.51	8.99	9.05	13.46	13.46	18.26	18.22	
Mode		LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM		
Lowest CH	1.10		2.72		4.49		8.99		13.43		18.26		
Middle CH	1.09		2.73		4.49		9.07		13.46		18.38		
Highest CH	1.09		2.74		4.51		9.03		13.43		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	1.08	1.1	2.71	2.71	4.49	4.48	9.03	9.05	13.46	13.46	18.3	18.42	
Middle CH	1.08	1.09	2.73	2.7	4.51	4.5	9.05	9.05	13.46	13.4	18.22	18.34	
Highest CH	1.09	1.09	2.71	2.72	4.5	4.49	9.01	8.97	13.49	13.46	18.22	18.38	
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM		
Lowest CH	1.09		2.73		4.48		9.01		13.43		18.54		
Middle CH	1.09		2.74		4.5		9.03		13.37		18.34		
Highest CH	1.08		2.72		4.48		9.01		13.43		18.54		

Mode		LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM					
Lowest CH	1.1	1.08	2.73	2.72	4.5	4.51	9.01	9.03	-	-	-	-	
Middle CH	1.09	1.09	2.73	2.73	4.51	4.51	9.01	9.03	-	-	-	-	
Highest CH	1.09	1.09	2.75	2.72	4.49	4.5	8.99	9.03	-	-	-	-	
Mode		LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz						
Mod.	64QAM		64QAM		64QAM		64QAM						
Lowest CH	1.08		2.73		4.49		9.05						
Middle CH	1.09		2.72		4.49		9.05						
Highest CH	1.09		2.73		4.5		9.03						



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	-	-	-	-	4.5	4.49	9.01	9.07	13.43	13.43	18.18	18.34
Middle CH	-	-	-	-	4.49	4.5	9.05	9.03	13.49	13.4	18.38	18.42
Highest CH	-	-	-	-	4.49	4.51	9.07	8.97	13.49	13.43	18.18	18.42
Mode	LTE Band 7 : 99%OBW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.5		9.01		13.49		18.42	
Middle CH	-	-	-	-	4.51		9.05		13.37		18.34	
Highest CH	-	-	-	-	4.49		9.1		13.4		18.26	

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	-	-	-	-	4.48	4.51	9.01	8.93	13.37	13.49	18.38	18.18
Middle CH	-	-	-	-	4.51	4.51	9.07	9.07	13.46	13.4	18.26	18.54
Highest CH	-	-	-	-	4.51	4.5	9.13	9.05	13.4	13.37	18.26	18.26
Mode	LTE Band 38 : 99%OBW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51		9.03		13.46		18.26	
Middle CH	-	-	-	-	4.50		9.01		13.43		18.38	
Highest CH	-	-	-	-	4.51		9.01		13.43		18.3	



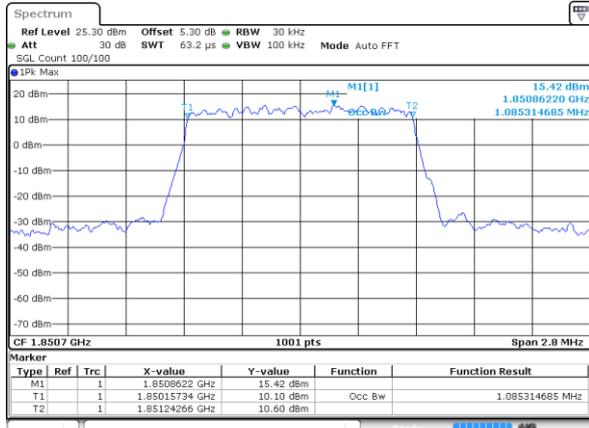
For CA

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	28.65	37.8	28.71	37.8
Middle CH	28.65	37.8	28.65	37.88
Highest CH	28.65	37.72	28.71	37.88
Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	64QAM			
BW	15MHz+15MHz	20MHz+20MHz		
Lowest CH	28.71	37.8		
Middle CH	28.65	37.96		
Highest CH	28.77	37.88		



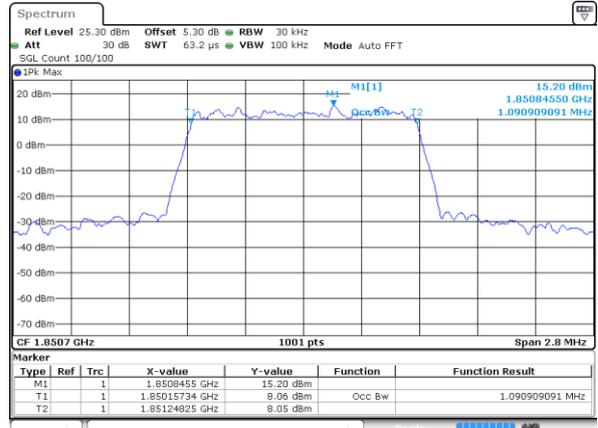
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



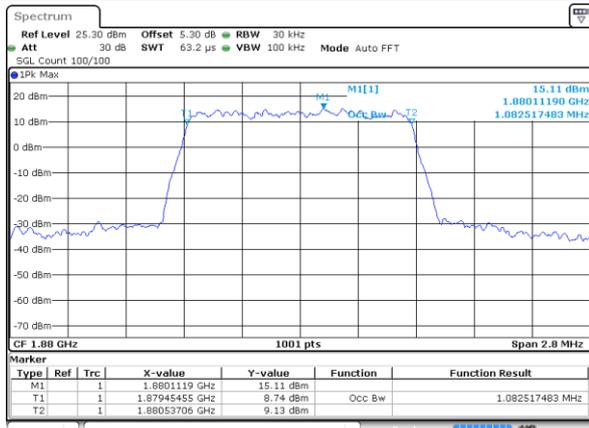
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Lowest Channel / 1.4MHz / 16QAM



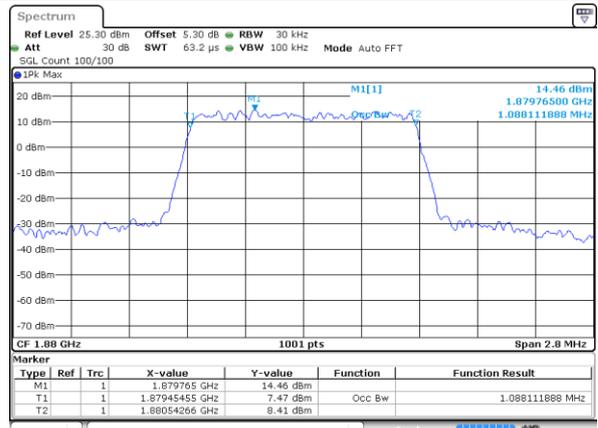
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Middle Channel / 1.4MHz / QPSK



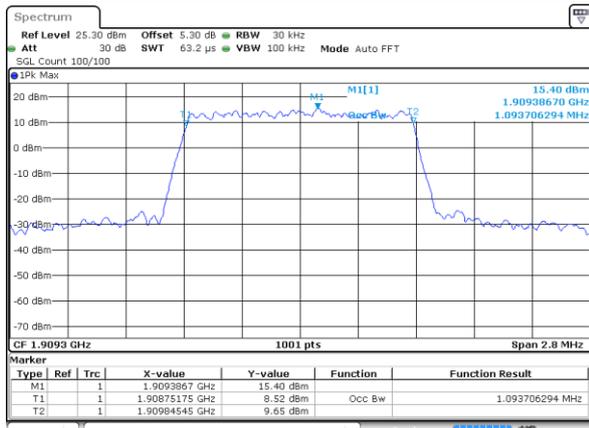
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Middle Channel / 1.4MHz / 16QAM



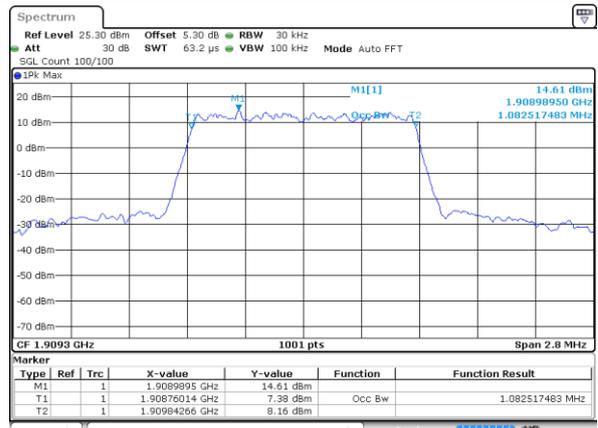
Date: 2 AUG 2018 16:00:24

Highest Channel / 1.4MHz / QPSK



Date: 2 AUG 2018 16:02:43

Highest Channel / 1.4MHz / 16QAM

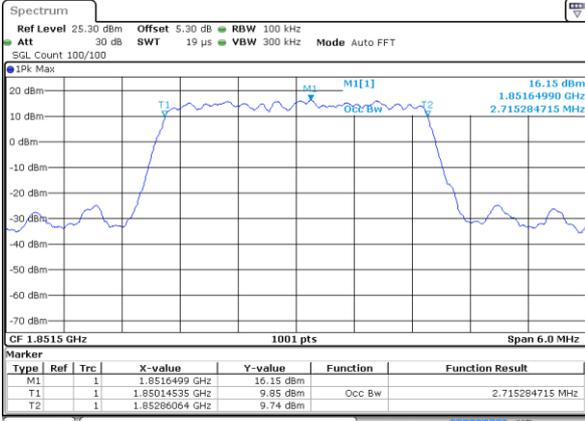


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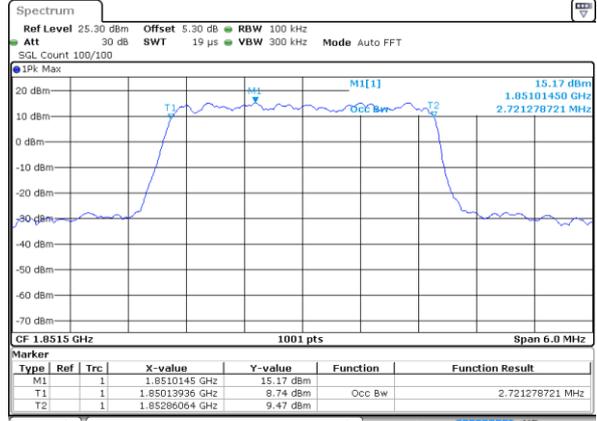
LTE Band 2

Lowest Channel / 3MHz / QPSK



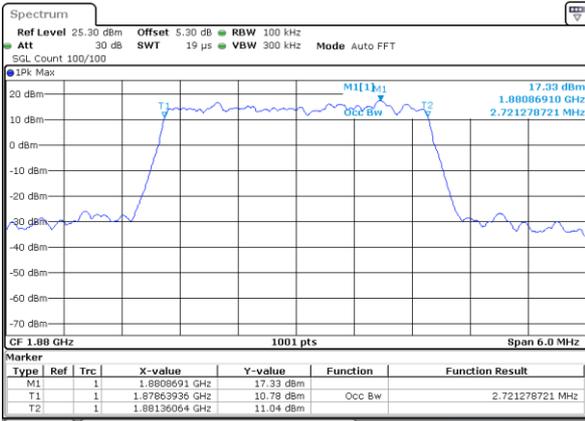
Date: 2 AUG 2018 16:09:41

Lowest Channel / 3MHz / 16QAM



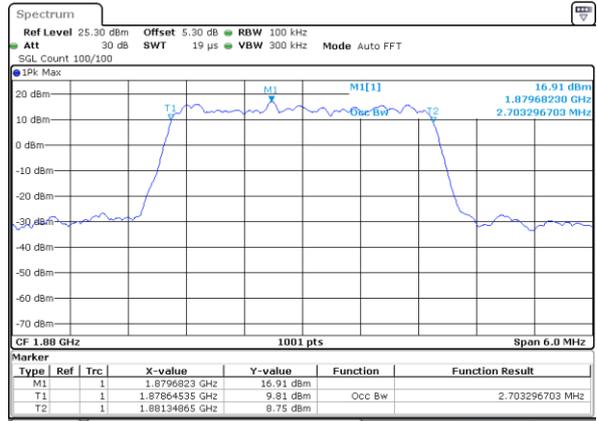
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Middle Channel / 3MHz / QPSK



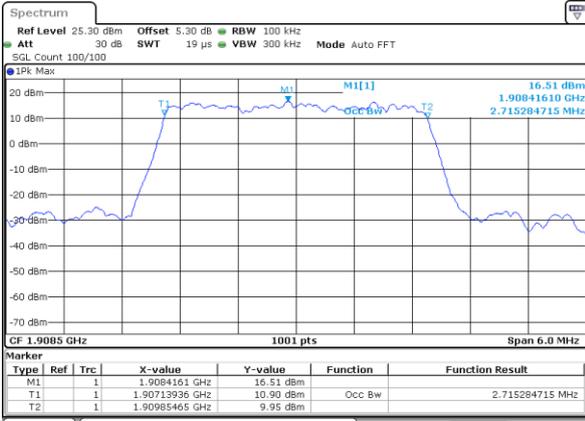
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Middle Channel / 3MHz / 16QAM



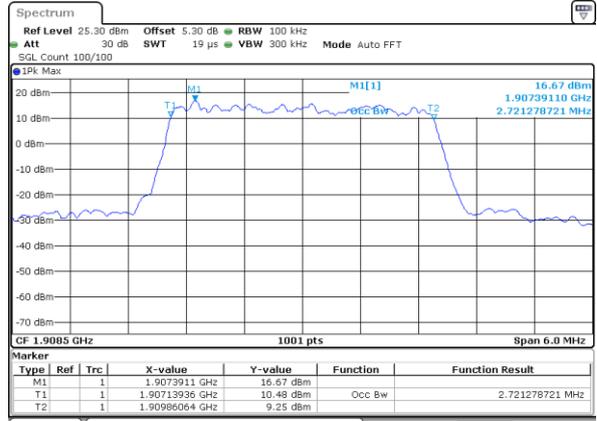
Date: 2 AUG 2018 16:23:08

Highest Channel / 3MHz / QPSK



Date: 2 AUG 2018 16:25:27

Highest Channel / 3MHz / 16QAM

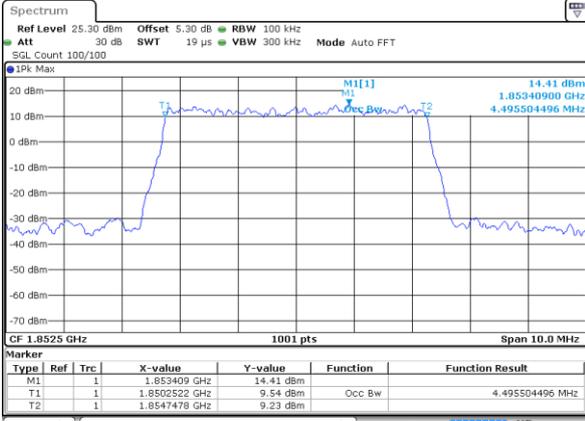


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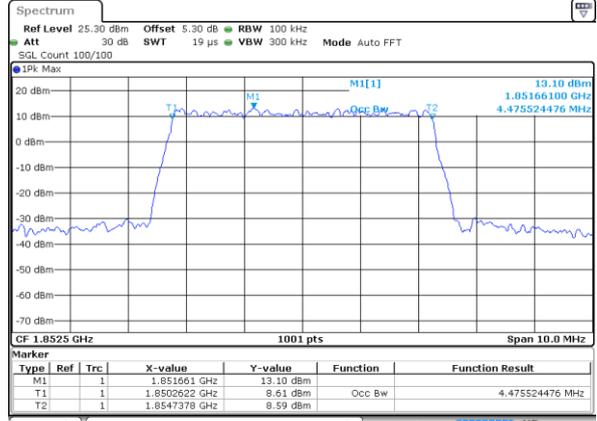
LTE Band 2

Lowest Channel / 5MHz / QPSK



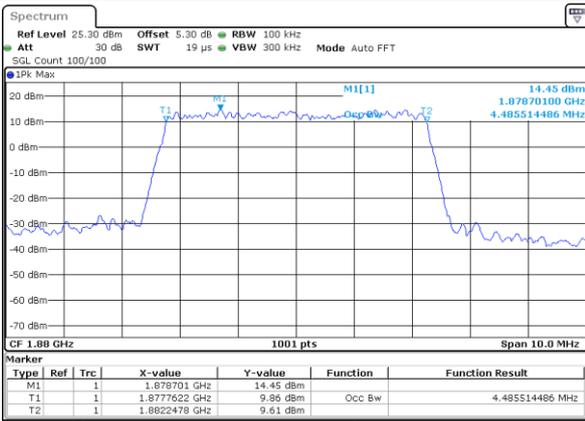
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Lowest Channel / 5MHz / 16QAM



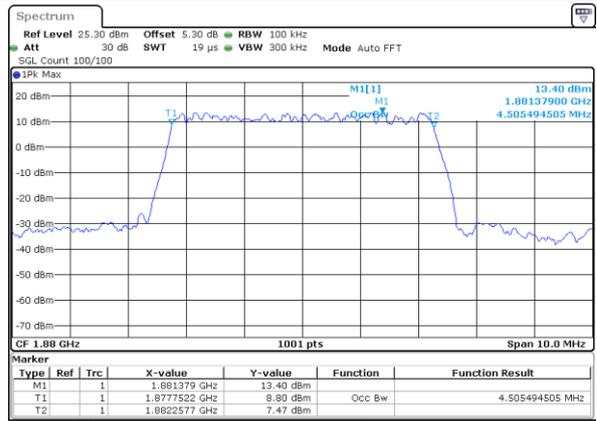
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Middle Channel / 5MHz / QPSK



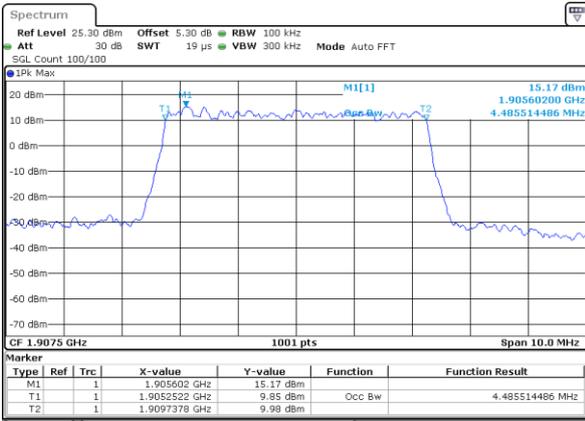
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Middle Channel / 5MHz / 16QAM



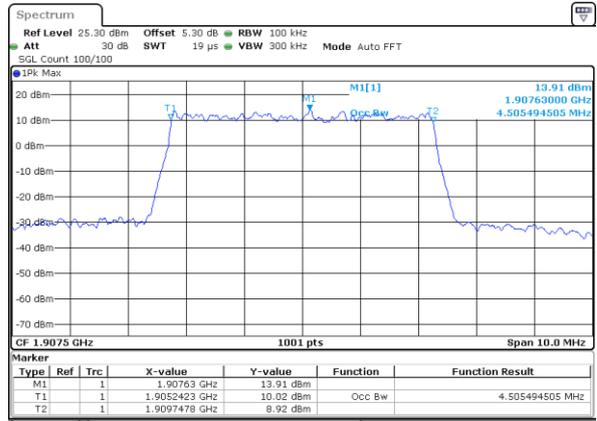
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Highest Channel / 5MHz / QPSK



Date: 2 AUG 2018 16:43:48

Highest Channel / 5MHz / 16QAM

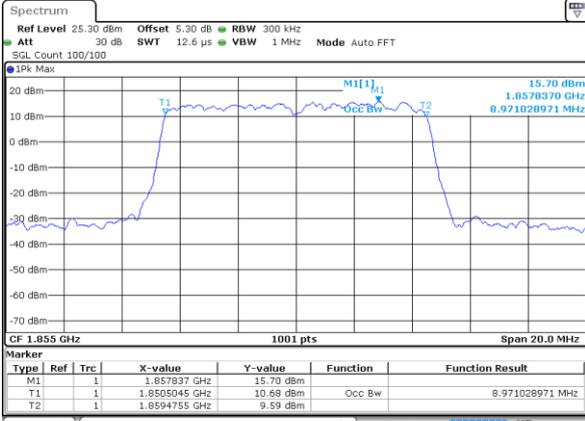


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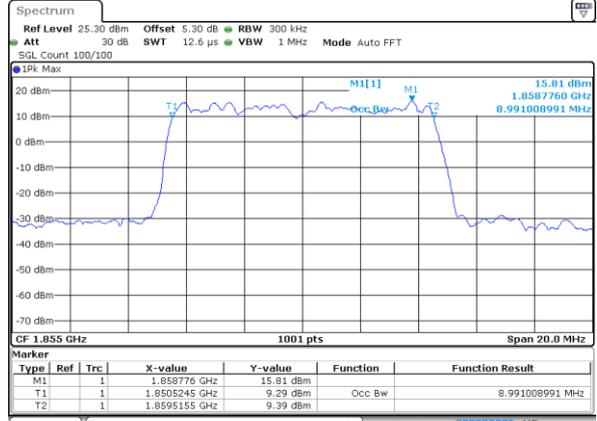
LTE Band 2

Lowest Channel / 10MHz / QPSK



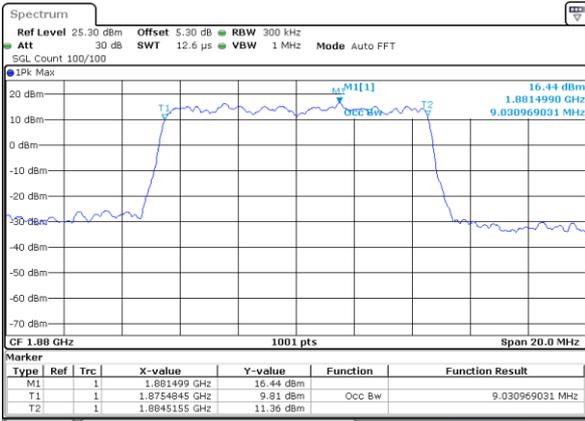
Date: 2 AUG 2018 16:52:57

Lowest Channel / 10MHz / 16QAM



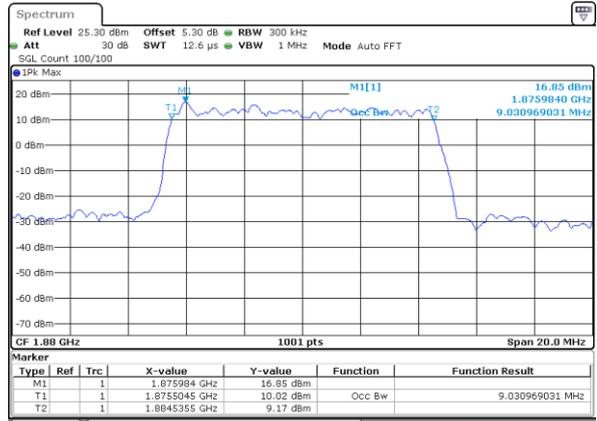
Date: 2 AUG 2018 16:53:07

Middle Channel / 10MHz / QPSK



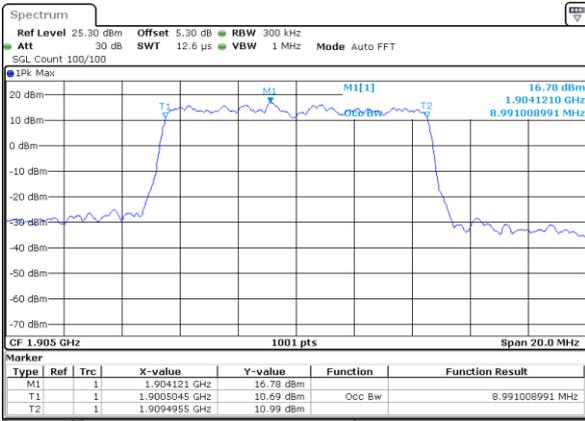
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Middle Channel / 10MHz / 16QAM



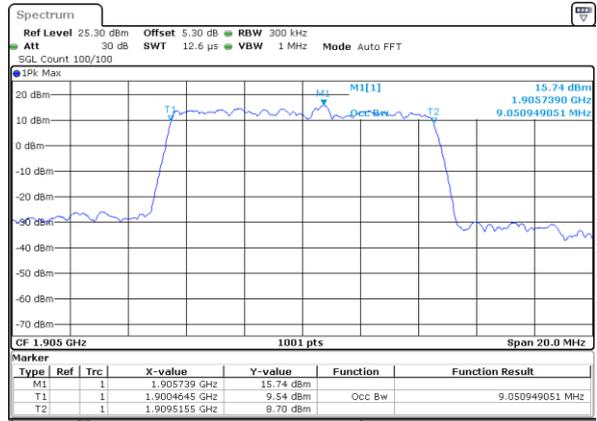
Date: 2 AUG 2018 17:00:06

Highest Channel / 10MHz / QPSK



Date: 2 AUG 2018 17:19:52

Highest Channel / 10MHz / 16QAM

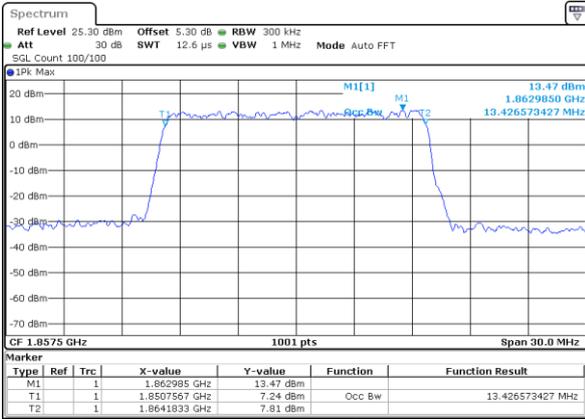


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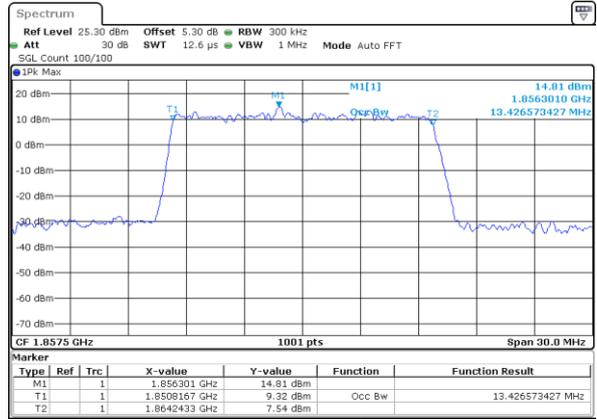
LTE Band 2

Lowest Channel / 15MHz / QPSK



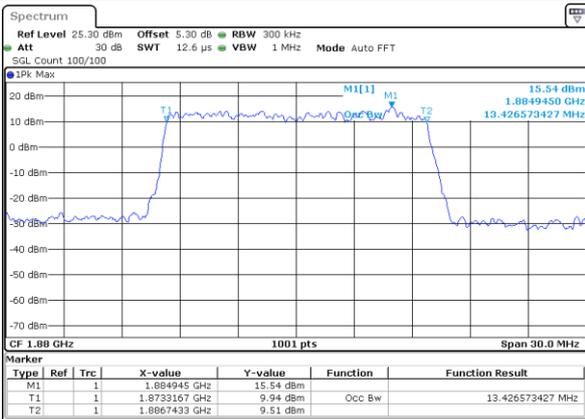
Date: 2 AUG 2018 17:22:15

Lowest Channel / 15MHz / 16QAM



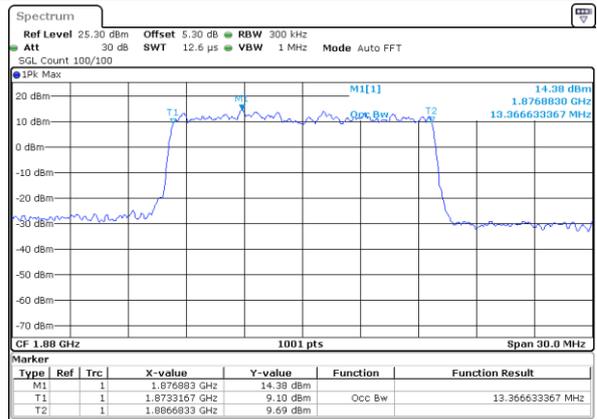
Date: 2 AUG 2018 17:22:54

Middle Channel / 15MHz / QPSK



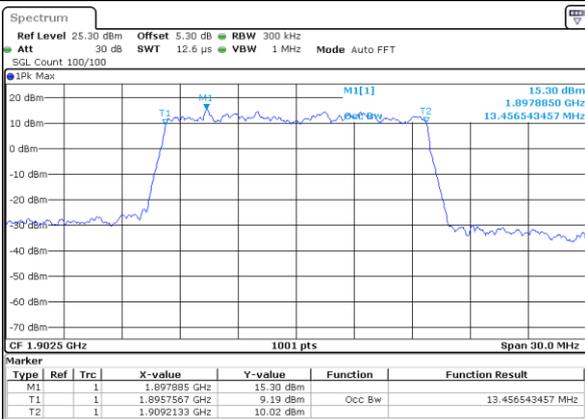
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Middle Channel / 15MHz / 16QAM



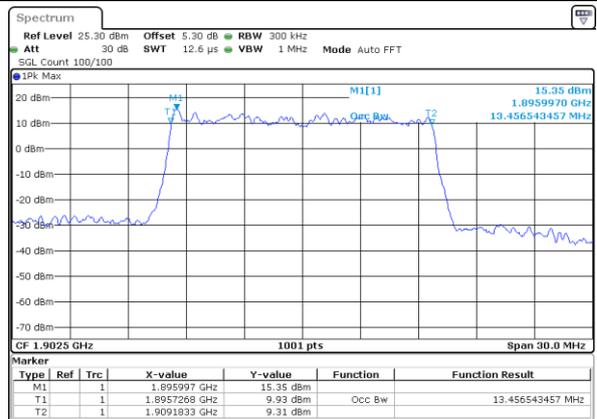
Date: 2 AUG 2018 17:30:14

Highest Channel / 15MHz / QPSK



Date: 2 AUG 2018 17:31:34

Highest Channel / 15MHz / 16QAM

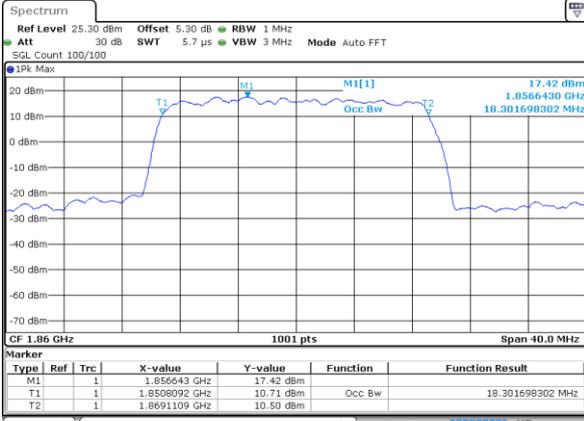


Date: 2 AUG 2018 17:30:52



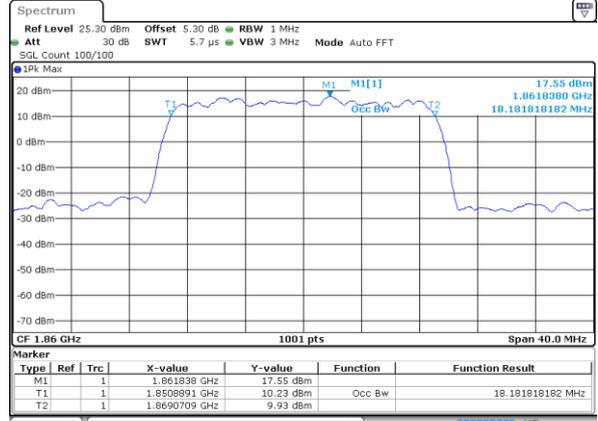
LTE Band 2

Lowest Channel / 20MHz / QPSK



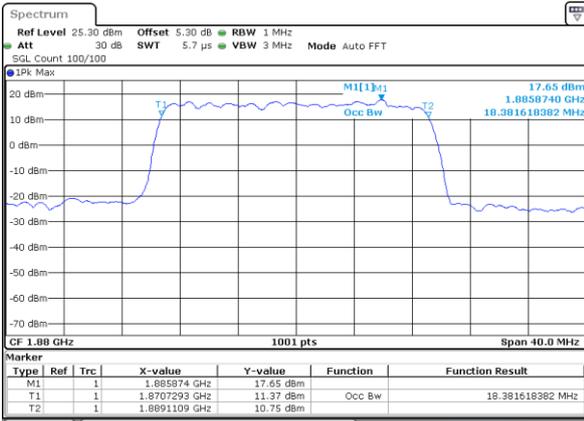
Date: 2 AUG 2018 17:34:19

Lowest Channel / 20MHz / 16QAM



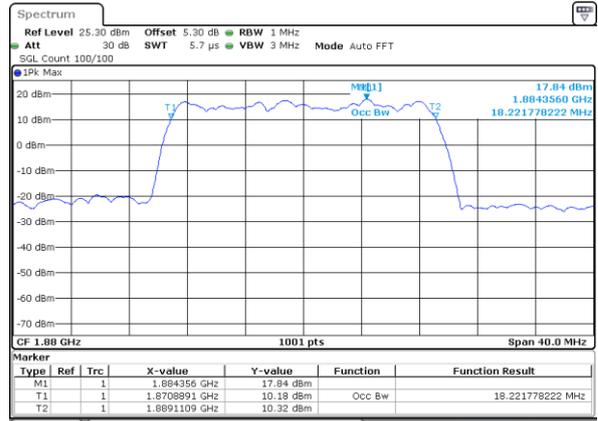
Date: 2 AUG 2018 17:34:53

Middle Channel / 20MHz / QPSK



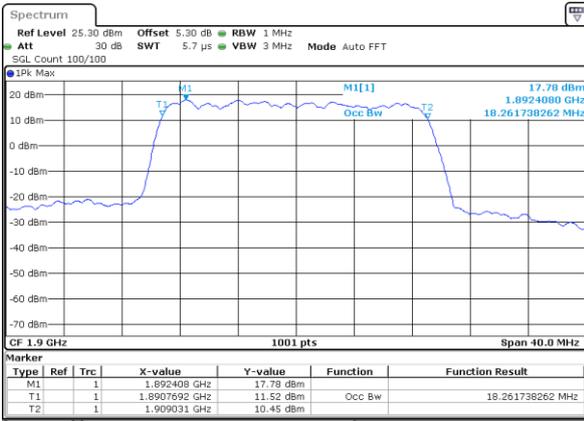
Date: 2 AUG 2018 17:40:35

Middle Channel / 20MHz / 16QAM



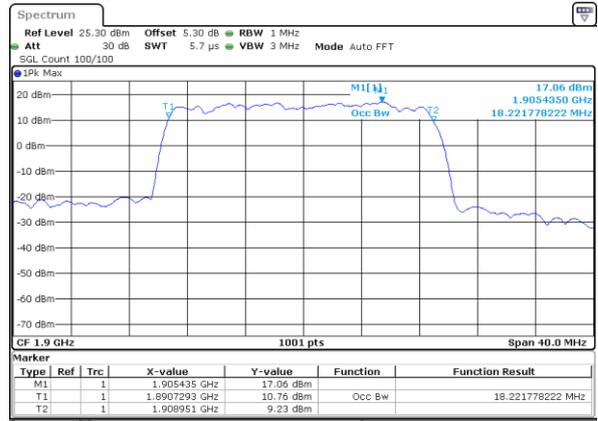
Date: 2 AUG 2018 17:40:10

Highest Channel / 20MHz / QPSK



Date: 2 AUG 2018 17:41:09

Highest Channel / 20MHz / 16QAM



Date: 2 AUG 2018 17:41:55