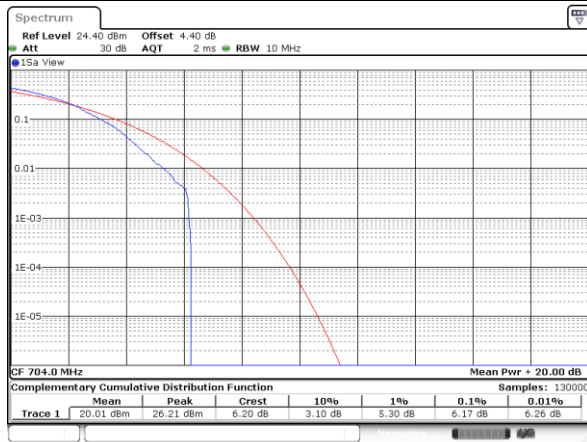




LTE Band 12 / 10MHz / 64QAM

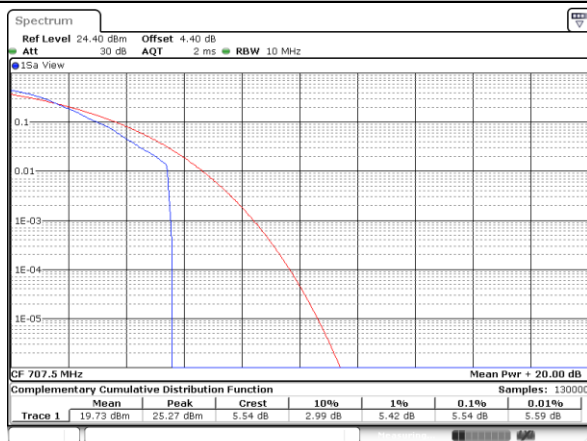
Lowest Channel / 1RB



Lowest Channel / Full RB



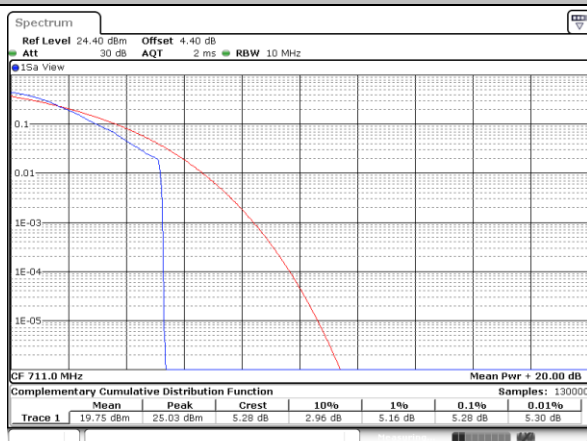
Middle Channel / 1RB



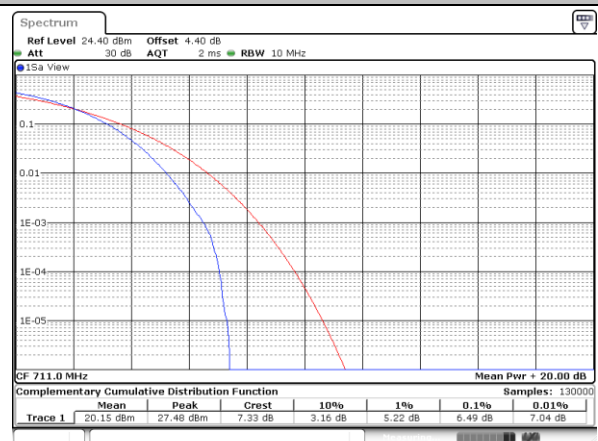
Middle Channel / Full RB

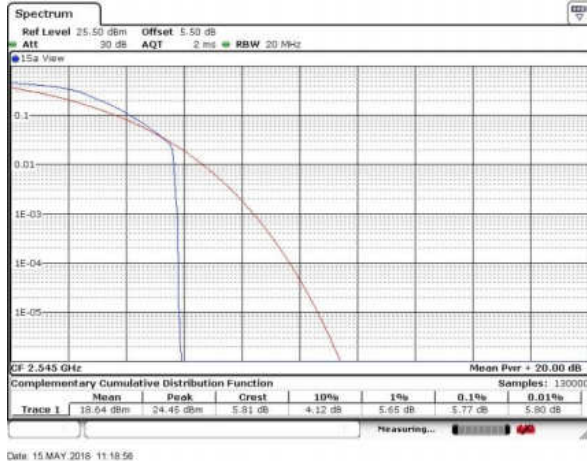
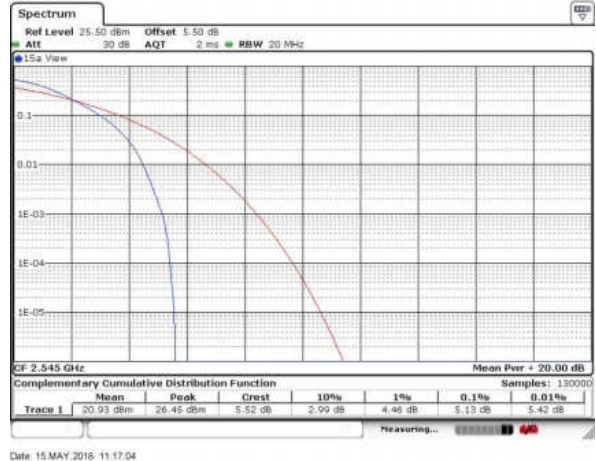
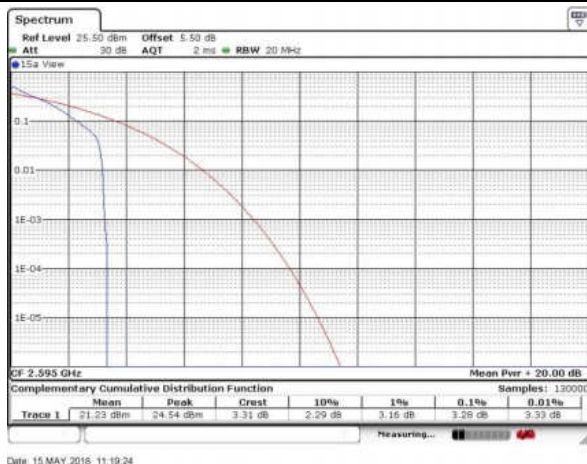
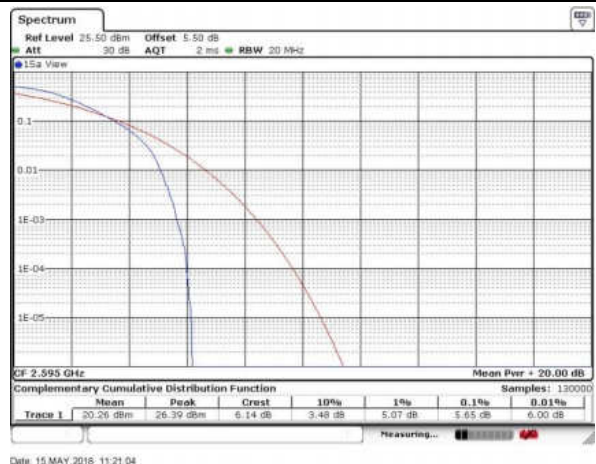


Highest Channel / 1RB



Highest Channel / Full RB

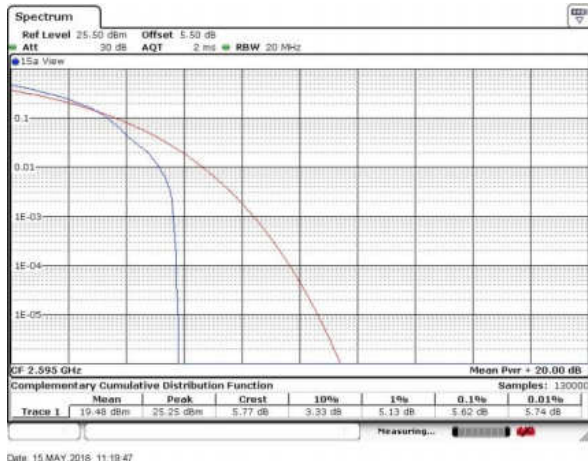
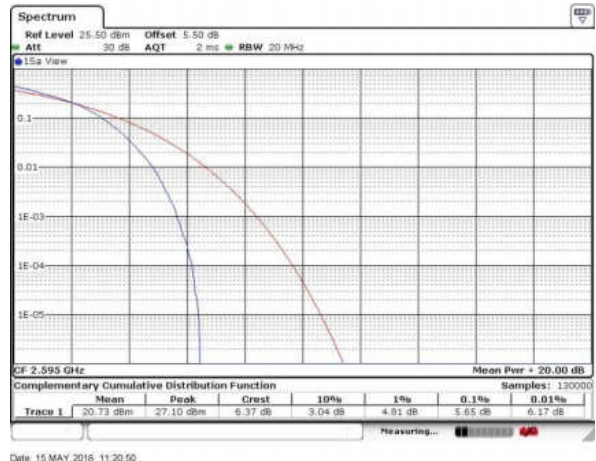
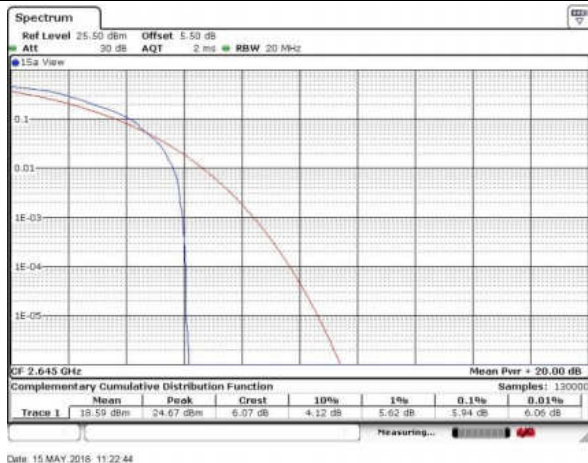
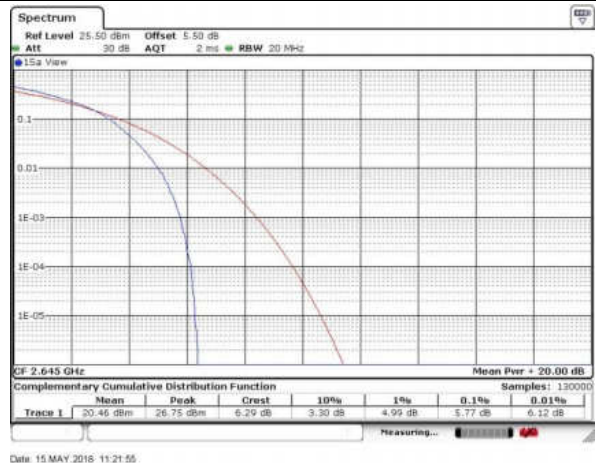


LTE Band 41 / 20MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 41 / 20MHz / 16QAM
Lowest Channel / 1RB

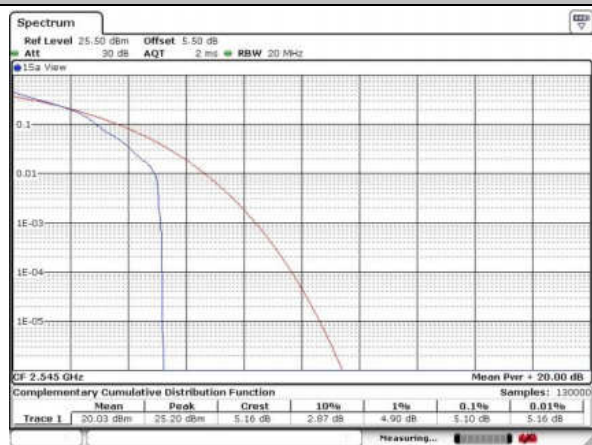
Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB




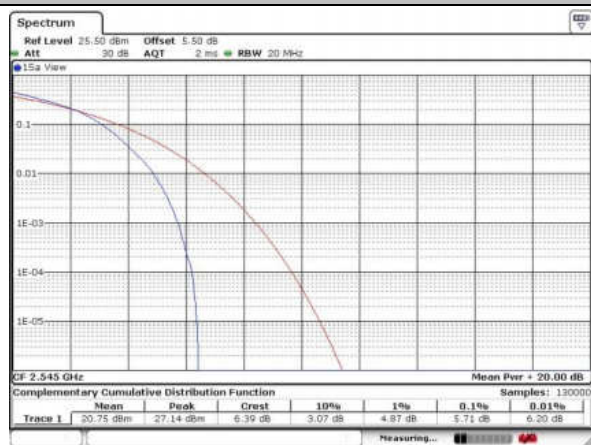
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



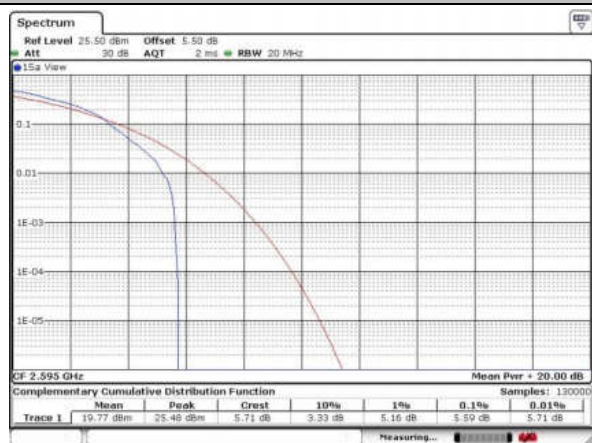
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Lowest Channel / Full RB



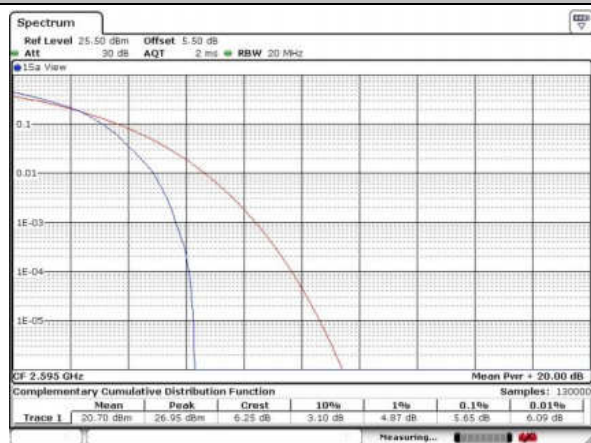
Date: 15 MAY 2016 11:18:10

Middle Channel / 1RB



Date: 15 MAY 2016 11:20:05

Middle Channel / Full RB



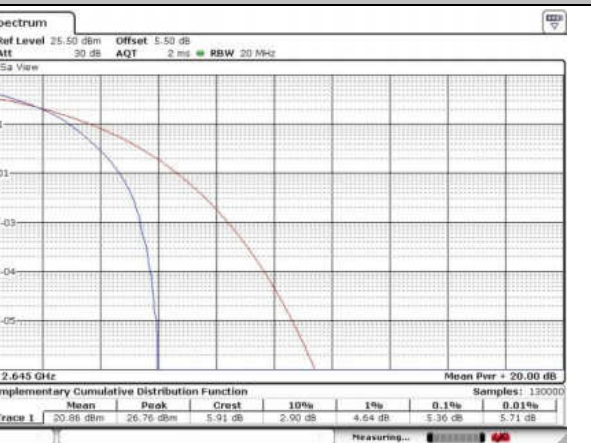
Date: 15 MAY 2016 11:20:27

Highest Channel / 1RB



Date: 15 MAY 2016 11:22:30

Highest Channel / Full RB



Date: 15 MAY 2016 11:22:11

**26dB Bandwidth**

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.234	1.234	2.985	2.991	4.865	4.895	9.91	9.77	14.655	14.356	20.38	20.22
Middle CH	1.242	1.231	2.991	3.015	4.925	4.795	9.81	9.87	14.356	14.416	20.22	20.14
Highest CH	1.234	1.231	3.081	3.039	4.875	4.835	9.81	9.83	14.505	14.476	20.38	20.06
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.217		2.973		4.915		9.97		14.356		20.22	
Middle CH	1.208		3.045		4.905		10.05		14.685		20.14	
Highest CH	1.234		2.991		4.825		10.03		14.296		20.06	

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.214	1.231	3.027	3.051	4.935	4.895	9.87	9.89	14.386	14.476	20.1	20.18
Middle CH	1.222	1.22	2.961	2.937	4.955	4.905	9.77	9.81	14.476	14.446	20.1	20.22
Highest CH	1.231	1.239	2.979	3.009	4.855	4.845	9.69	9.79	14.326	14.505	20.18	20.42
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.228		3.009		4.815		9.77		14.476		20.14	
Middle CH	1.2112		2.985		4.845		9.85		14.206		20.34	
Highest CH	1.2336		3.021		4.915		9.87		14.595		20.18	

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.225	1.234	3.027	3.057	4.915	4.825	9.85	9.93	1.225	3.039	4.865	9.65
Middle CH	1.231	1.222	3.039	3.015	4.905	4.925	9.81	9.81	1.214	2.991	4.915	9.99
Highest CH	1.217	1.222	3.039	2.961	4.955	4.865	9.75	9.71	1.239	2.991	4.865	9.71



Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.865	4.905	9.83	9.93	14.625	14.356	20.22	20.18
Middle CH	-	-	-	-	4.925	4.865	9.71	9.79	14.535	14.356	20.14	20.22
Highest CH	-	-	-	-	4.865	4.865	9.69	9.85	14.595	14.356	20.22	20.18
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz					
Mod.	64QAM		64QAM		64QAM		64QAM					
Lowest CH	4.825		9.69		14.386		20.1					
Middle CH	4.825		9.79		14.356		20.22					
Highest CH	4.875		9.87		14.176		20.14					

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.23	1.23	3.02	3.02	4.84	4.86	9.81	9.95	1.21	2.99	4.91	9.91
Middle CH	1.22	1.22	3.05	3.00	4.89	4.85	9.79	9.85	1.23	3.02	4.90	9.67
Highest CH	1.22	1.22	3.01	3.06	4.93	4.89	9.95	9.93	1.22	3.02	4.86	9.81

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.845	4.925	9.73	9.67	14.206	14.595	20.14	20.14	4.935	9.75	14.356	20.14
Middle CH	4.855	4.895	9.77	9.81	14.296	14.206	20.14	20.1	4.775	9.79	14.296	19.98
Highest CH	4.955	4.855	9.79	9.83	14.296	14.116	20.22	20.18	4.955	9.83	14.296	20.06



For CA

Mode	LTE Band 41 : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	25.025	25.475	30.03	25.425	30.689
Middle CH	25.125	25.325	30.03	25.375	30.629
Highest CH	24.925	25.375	29.91	25.425	30.689
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.965	25.275	30.15	35.035	40.04
Middle CH	34.895	25.225	30.09	35.035	40.04
Highest CH	34.965	25.275	30.09	34.895	39.96

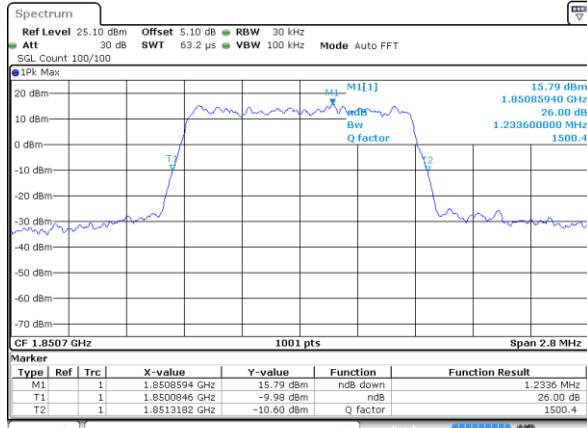
Mode	LTE Band 41 : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.925	25.425	29.97	25.475	30.629
Middle CH	25.025	25.225	29.97	25.275	30.509
Highest CH	24.925	25.175	29.91	25.425	30.629
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.895	25.175	29.97	35.035	39.96
Middle CH	34.755	25.075	30.03	35.105	39.80
Highest CH	34.965	25.225	30.09	35.105	39.96

Mode	LTE Band 41 : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	25.075	25.325	30.03	25.475	30.629
Middle CH	24.925	25.275	30.03	25.375	30.629
Highest CH	25.025	25.275	29.79	25.325	30.569
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.965	25.175	30.03	35.035	39.88
Middle CH	34.825	25.075	30.09	34.895	39.96
Highest CH	34.895	25.075	30.09	35.105	39.88



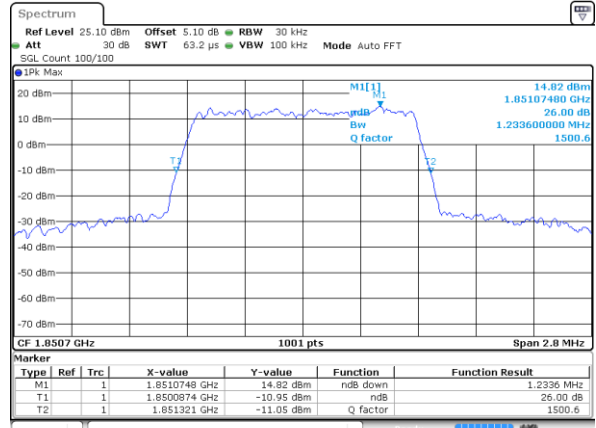
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



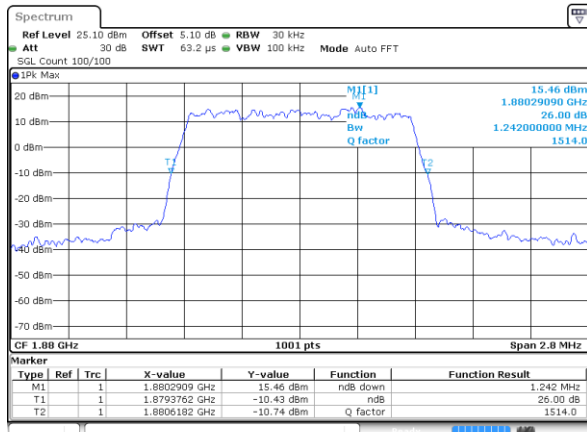
Date: 10 MAY 2018 10:21:45

Lowest Channel / 1.4MHz / 16QAM



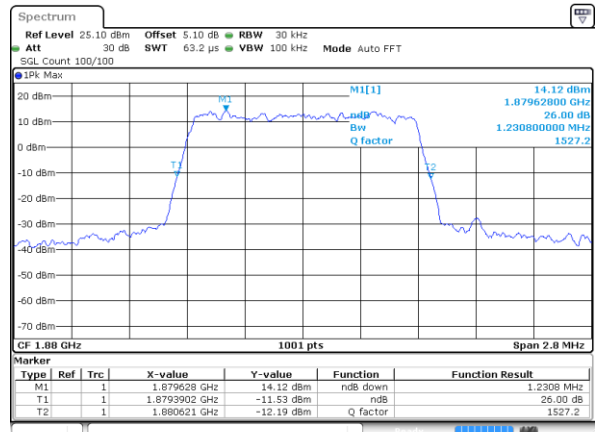
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Middle Channel / 1.4MHz / QPSK



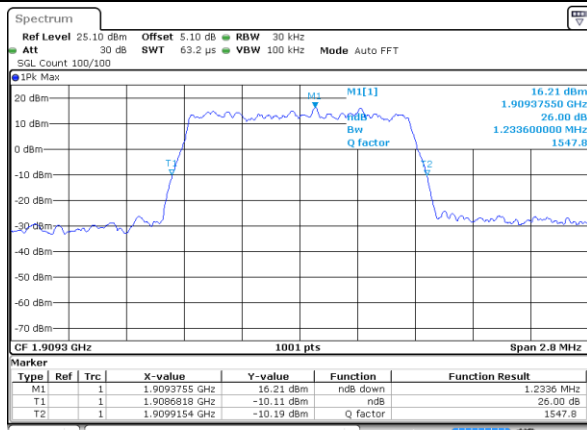
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Middle Channel / 1.4MHz / 16QAM



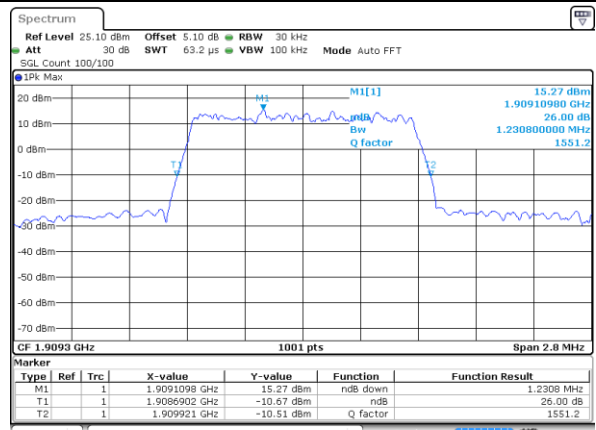
Date: 10 MAY 2018 10:29:03

Highest Channel / 1.4MHz / QPSK



Date: 10 MAY 2018 10:31:26

Highest Channel / 1.4MHz / 16QAM

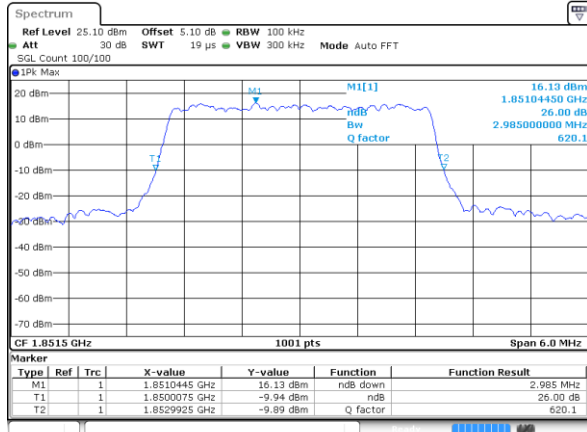


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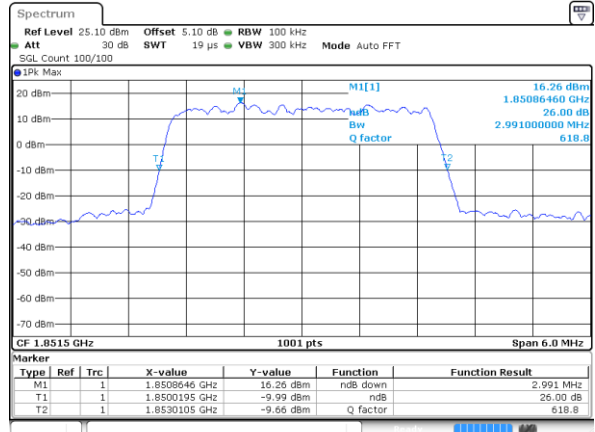


LTE Band 2

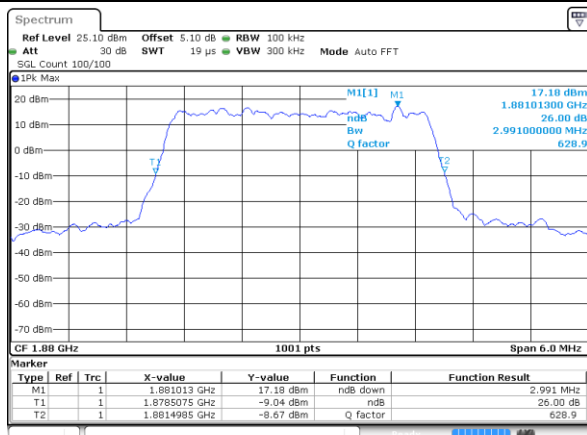
Lowest Channel / 3MHz / QPSK



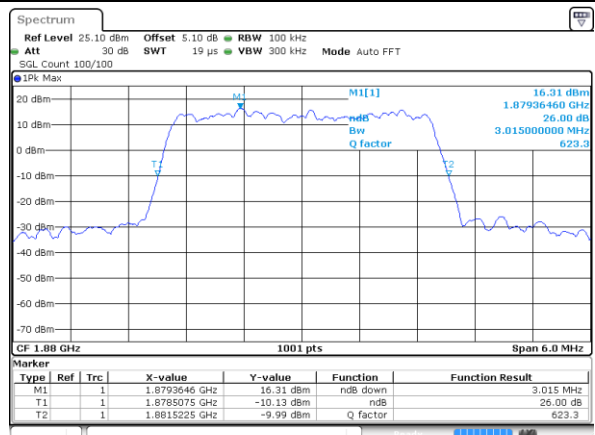
Lowest Channel / 3MHz / 16QAM



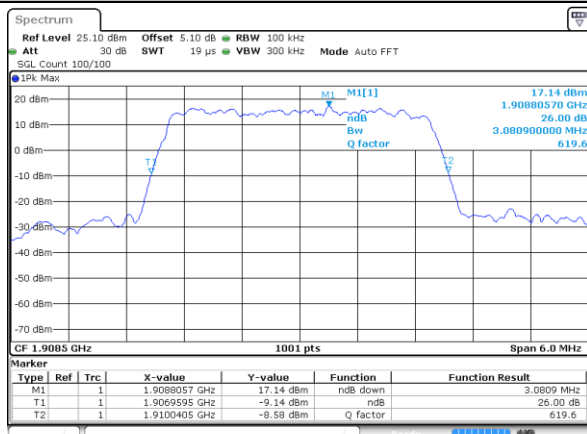
Middle Channel / 3MHz / QPSK



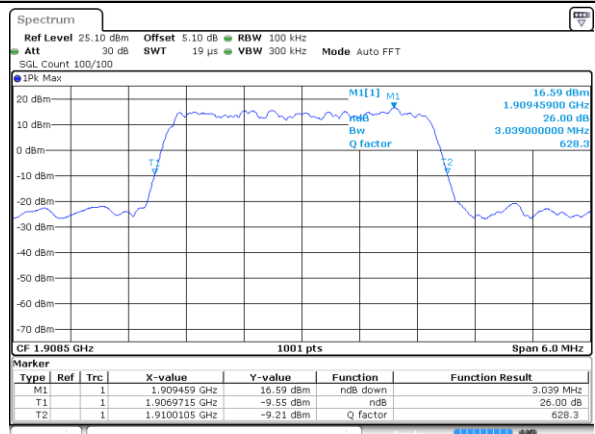
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



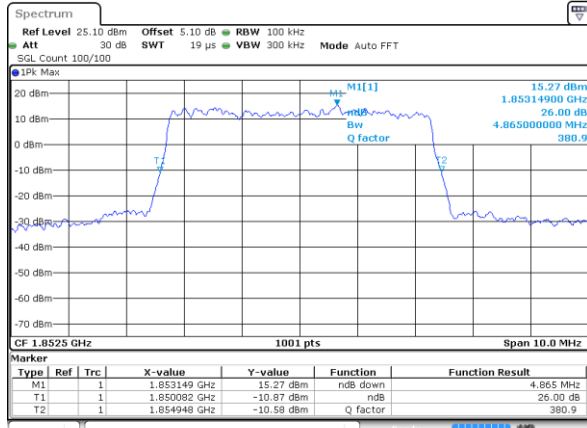
Highest Channel / 3MHz / 16QAM



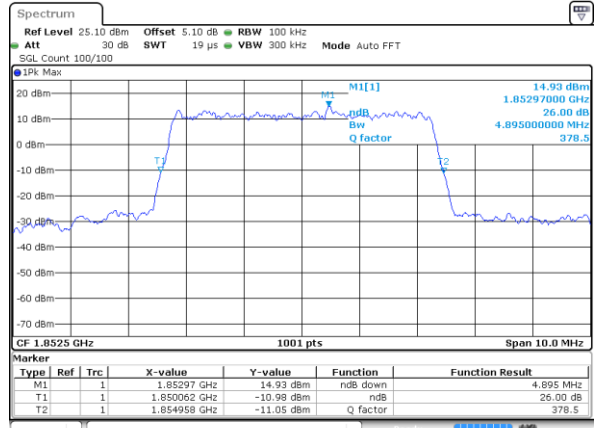


LTE Band 2

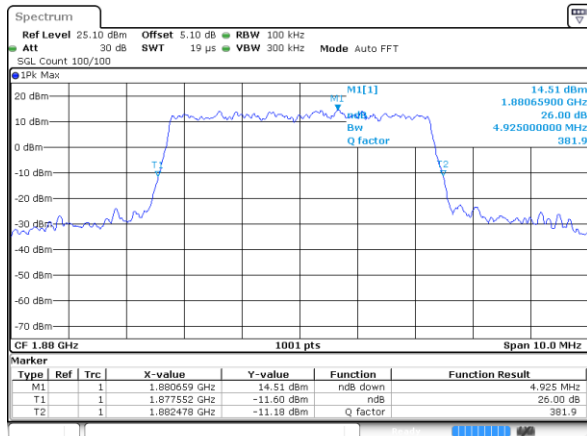
Lowest Channel / 5MHz / QPSK



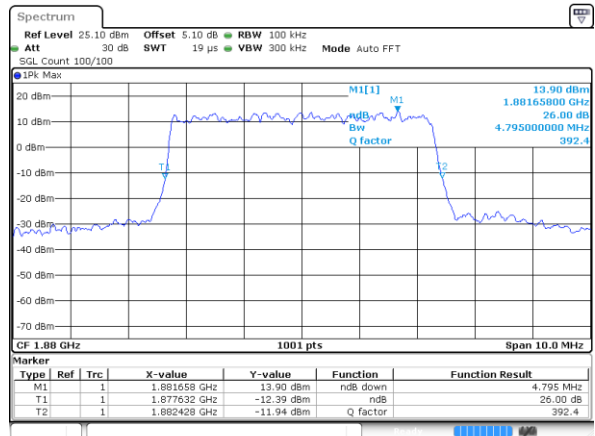
Lowest Channel / 5MHz / 16QAM



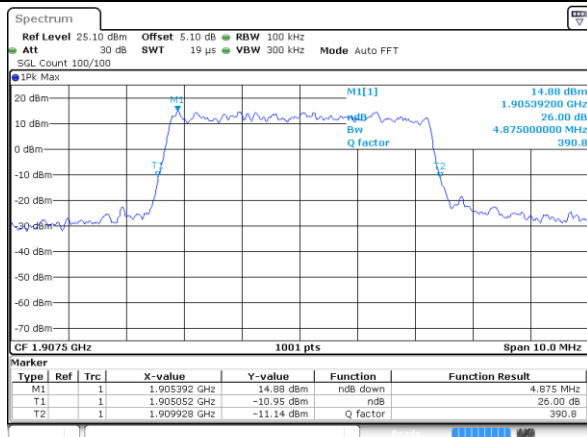
Middle Channel / 5MHz / QPSK



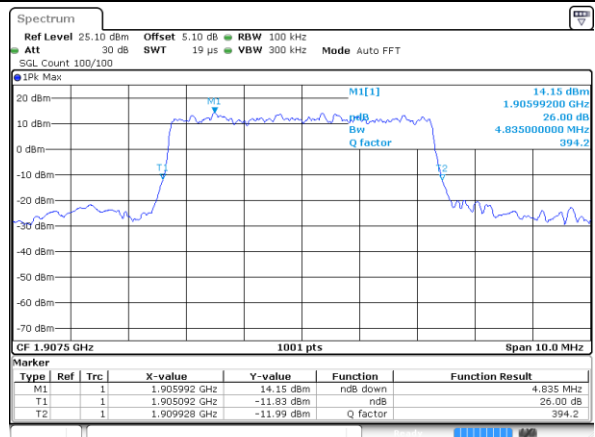
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



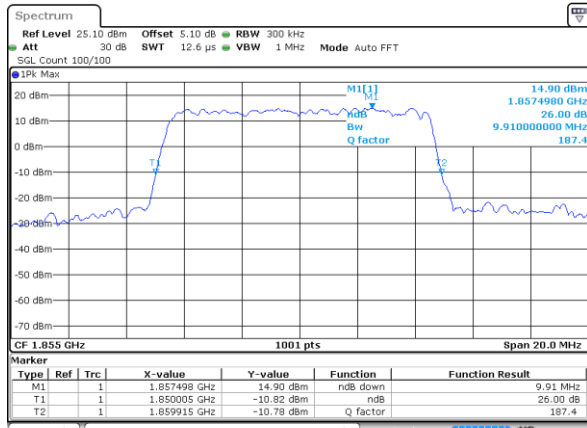
Highest Channel / 5MHz / 16QAM





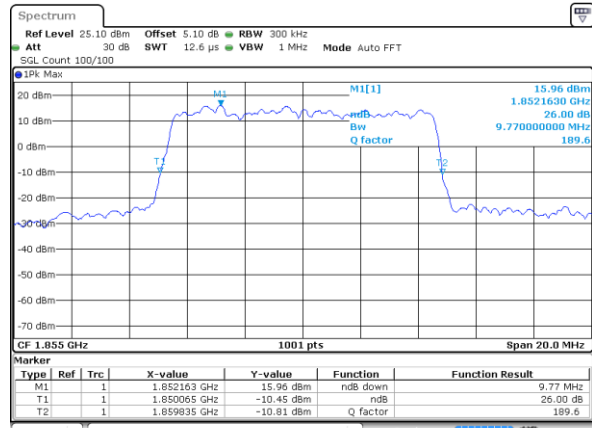
LTE Band 2

Lowest Channel / 10MHz / QPSK



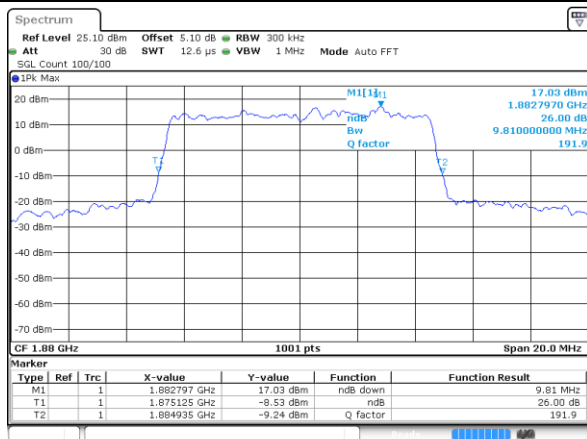
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Lowest Channel / 10MHz / 16QAM



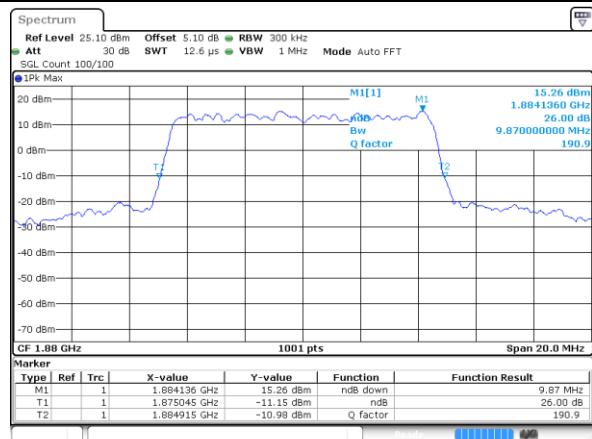
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Middle Channel / 10MHz / QPSK



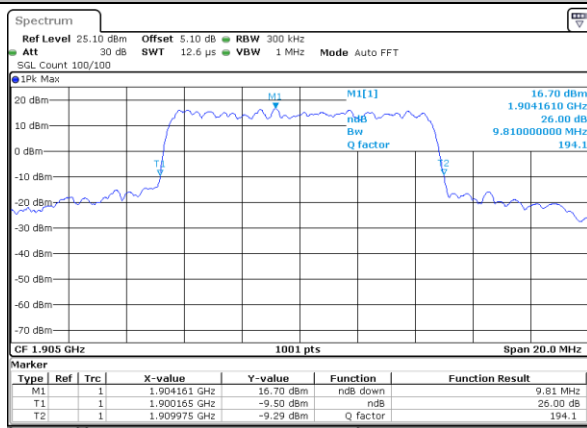
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Middle Channel / 10MHz / 16QAM



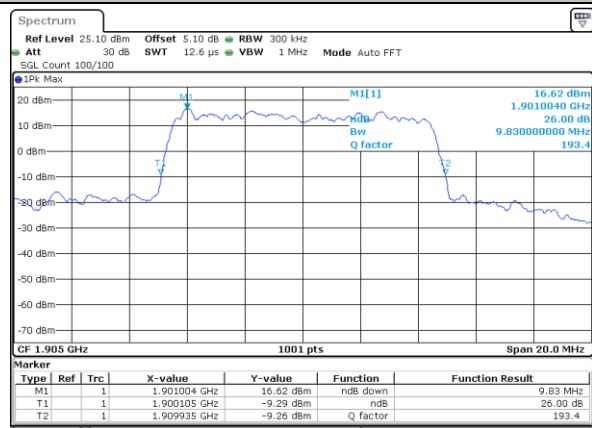
Date: 10 MAY 2018 11:19:21

Highest Channel / 10MHz / QPSK



Date: 10 MAY 2018 11:21:44

Highest Channel / 10MHz / 16QAM

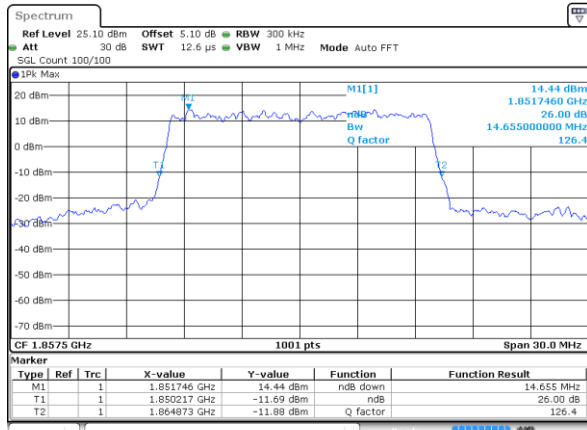


Date: 10 MAY 2018 11:21:55



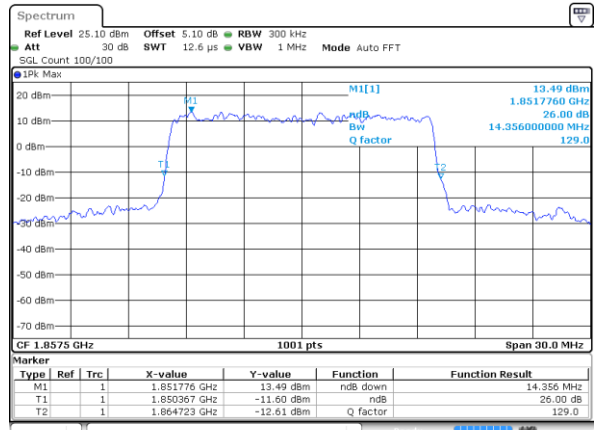
LTE Band 2

Lowest Channel / 15MHz / QPSK



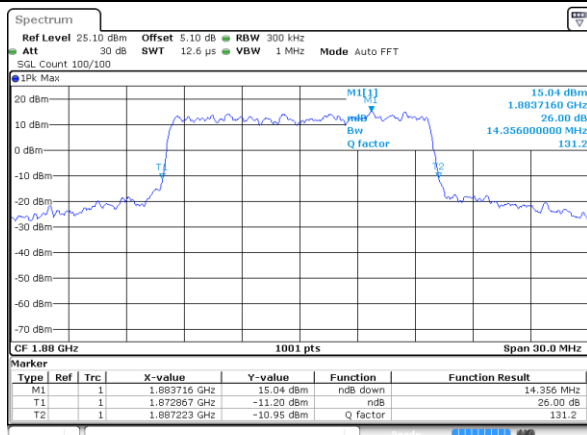
Date: 10 MAY 2018 11:28:50

Lowest Channel / 15MHz / 16QAM



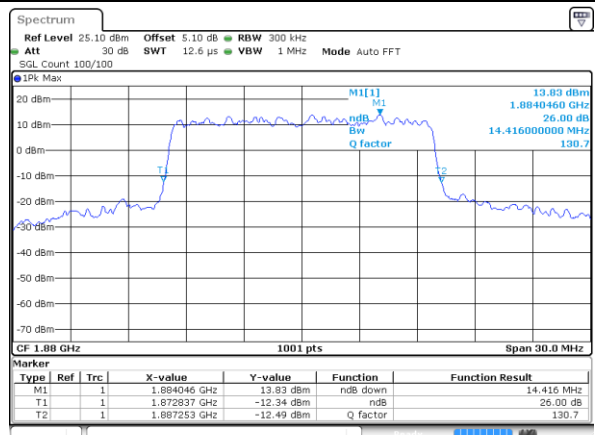
Date: 10 MAY 2018 11:29:01

Middle Channel / 15MHz / QPSK



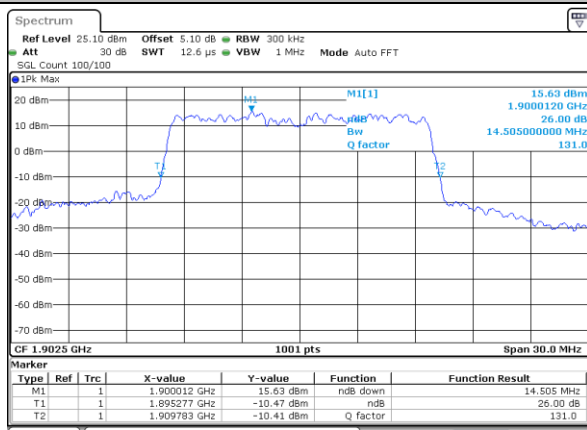
Date: 10 MAY 2018 11:35:58

Middle Channel / 15MHz / 16QAM



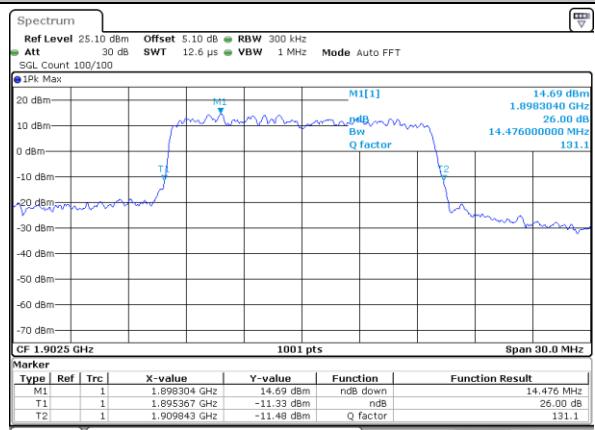
Date: 10 MAY 2018 11:36:09

Highest Channel / 15MHz / QPSK



Date: 10 MAY 2018 11:48:08

Highest Channel / 15MHz / 16QAM

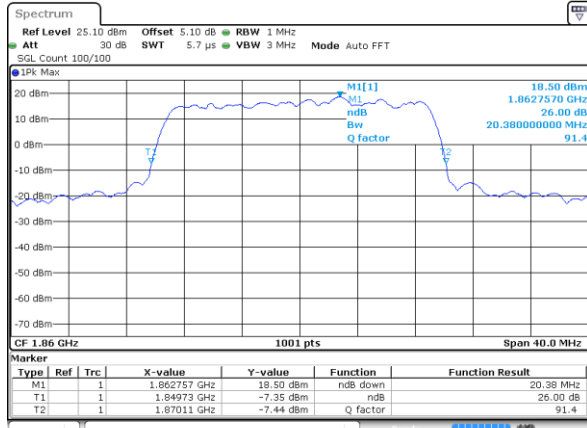


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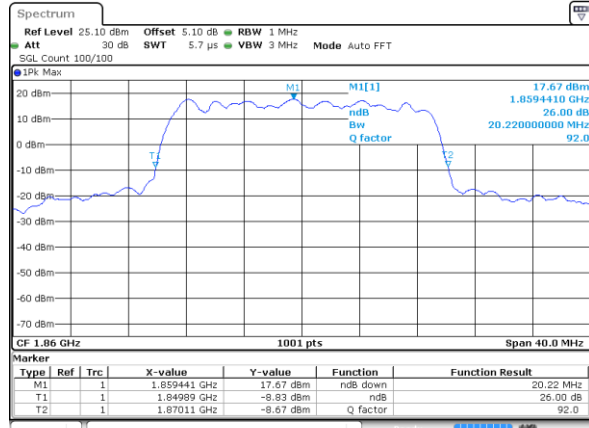
LTE Band 2

Lowest Channel / 20MHz / QPSK



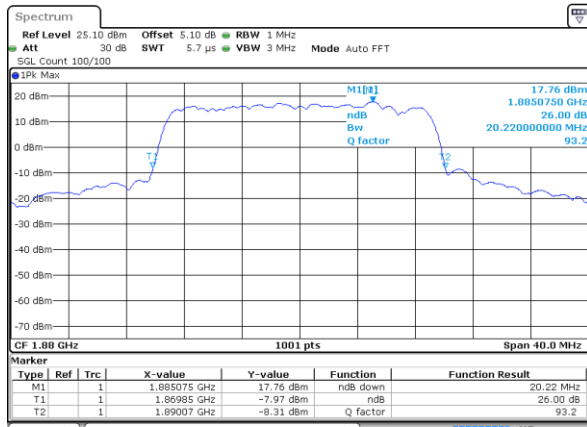
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Lowest Channel / 20MHz / 16QAM



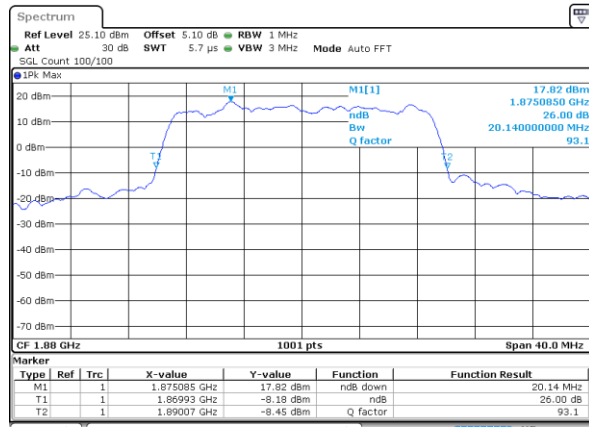
Date: 10 MAY 2018 11:55:25

Middle Channel / 20MHz / QPSK



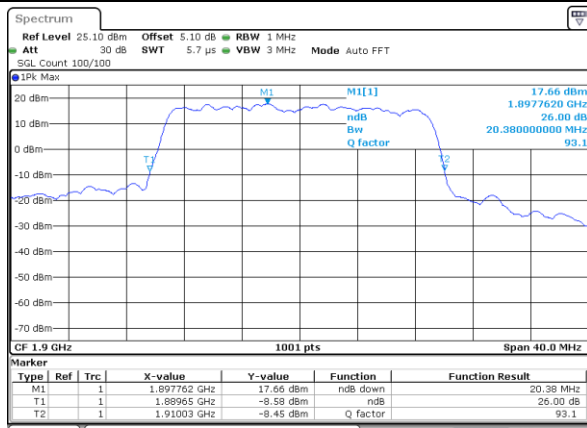
Date: 10 MAY 2018 12:02:21

Middle Channel / 20MHz / 16QAM



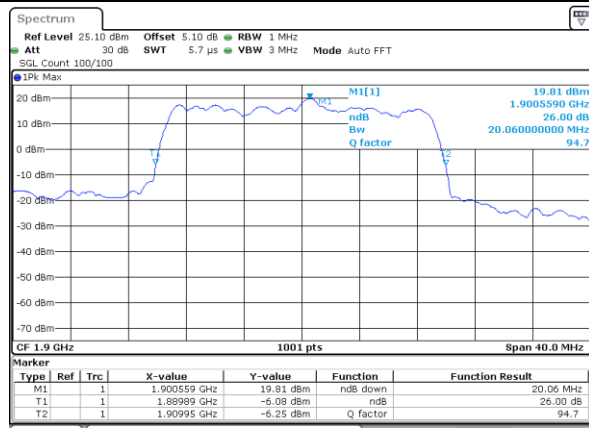
Date: 10 MAY 2018 12:02:32

Highest Channel / 20MHz / QPSK



Date: 10 MAY 2018 12:04:55

Highest Channel / 20MHz / 16QAM

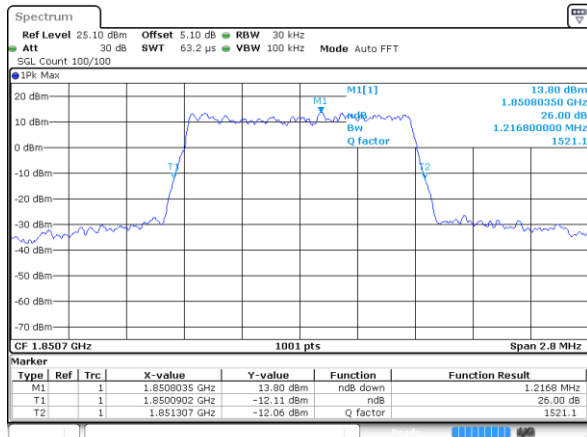


Date: 10 MAY 2018 12:05:05



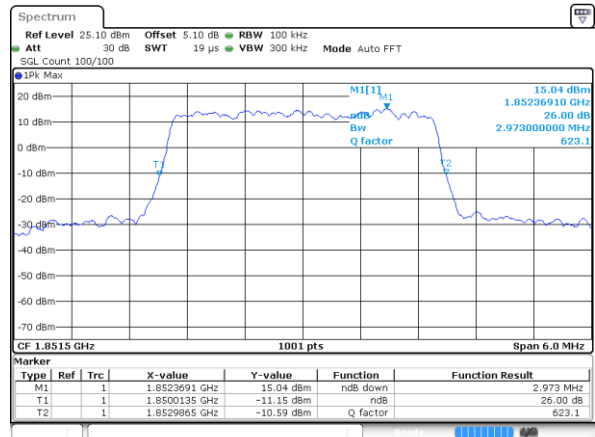
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



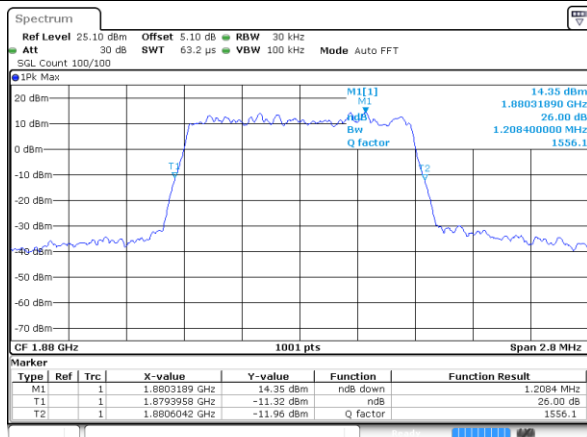
Date: 10 MAY 2018 13:51:26

Lowest Channel / 3MHz / 64QAM



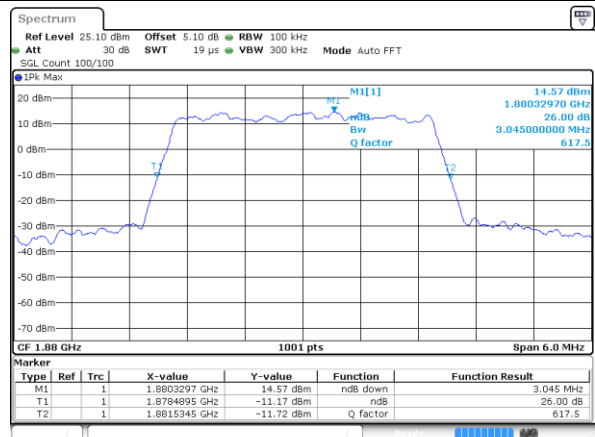
Date: 10 MAY 2018 13:51:59

Middle Channel / 1.4MHz / 64QAM



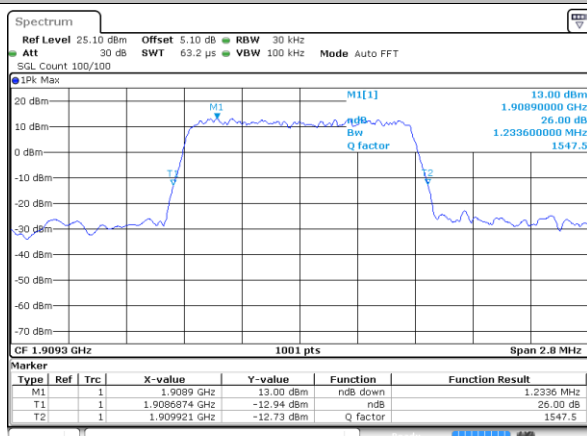
Date: 10 MAY 2018 13:51:37

Middle Channel / 3MHz / 64QAM



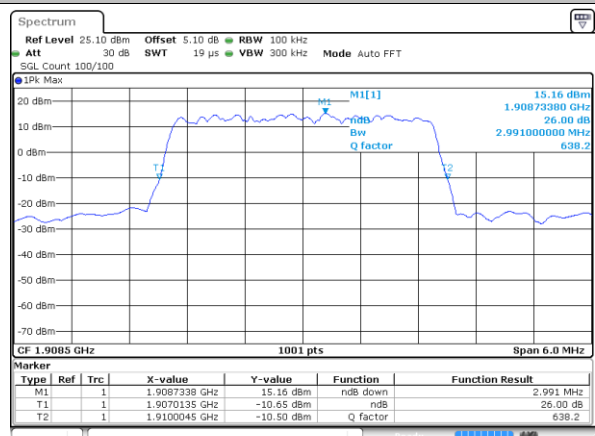
Date: 10 MAY 2018 13:52:09

Highest Channel / 1.4MHz / 64QAM



Date: 10 MAY 2018 13:51:48

Highest Channel / 3MHz / 64QAM

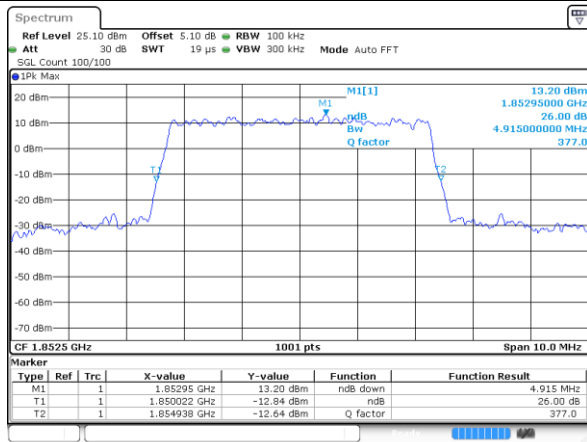


Date: 10 MAY 2018 13:52:20



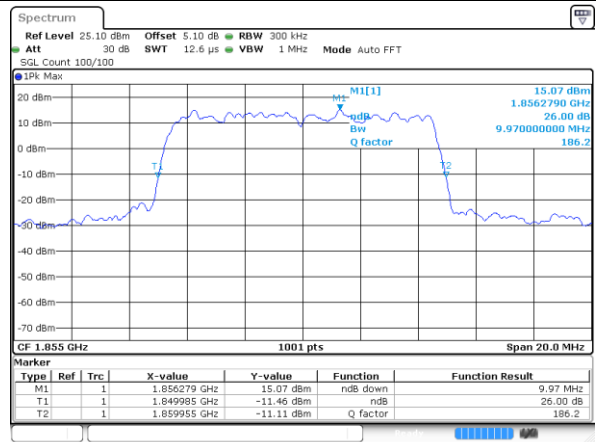
LTE Band 2

Lowest Channel / 5MHz / 64QAM



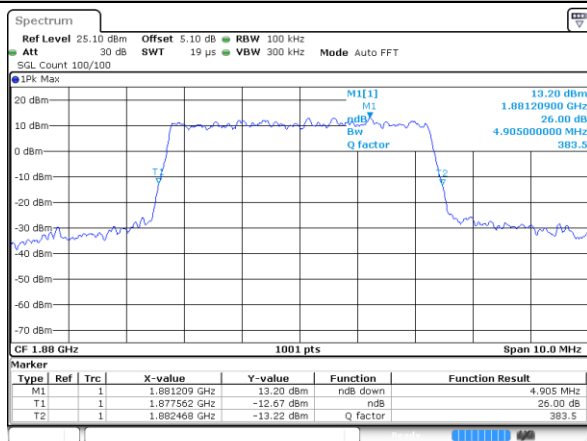
Date: 10 MAY 2018 13:52:31

Lowest Channel / 10MHz / 64QAM



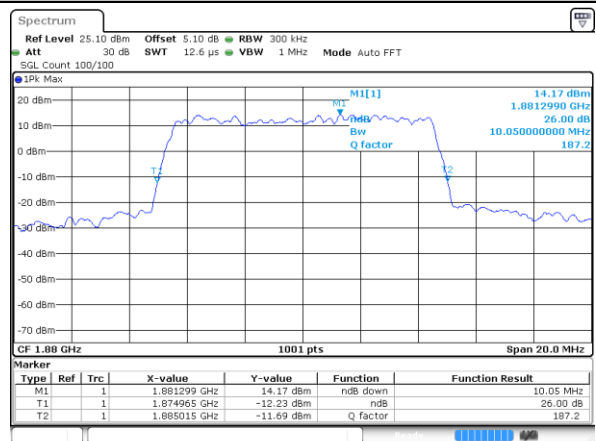
Date: 10 MAY 2018 13:53:03

Middle Channel / 5MHz / 64QAM



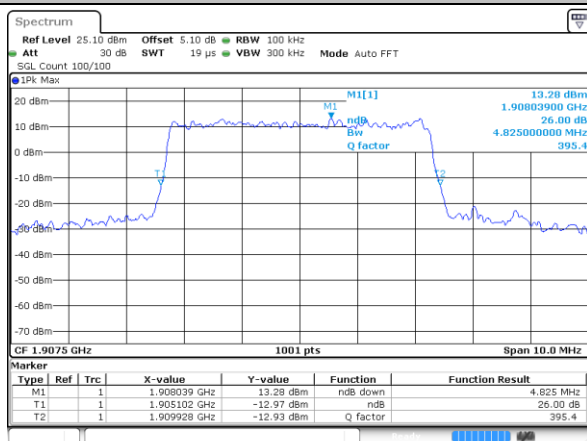
Date: 10 MAY 2018 13:52:42

Middle Channel / 10MHz / 64QAM



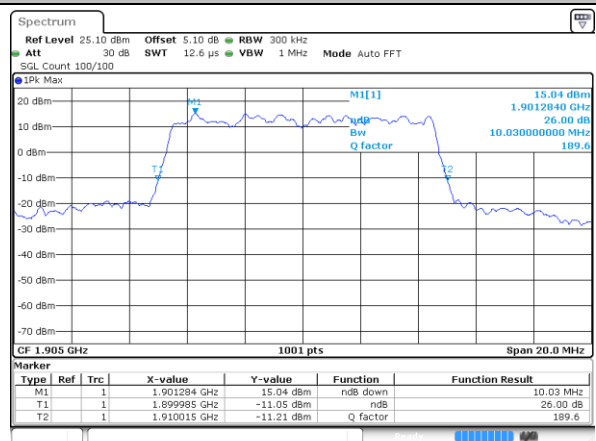
Date: 10 MAY 2018 13:53:14

Highest Channel / 5MHz / 64QAM



Date: 10 MAY 2018 13:52:52

Highest Channel / 10MHz / 64QAM

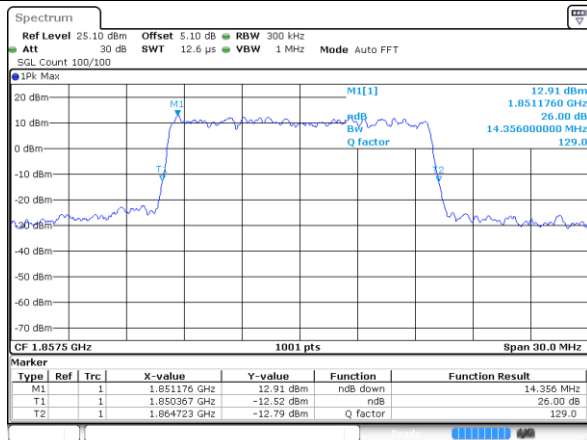


Date: 10 MAY 2018 13:53:25



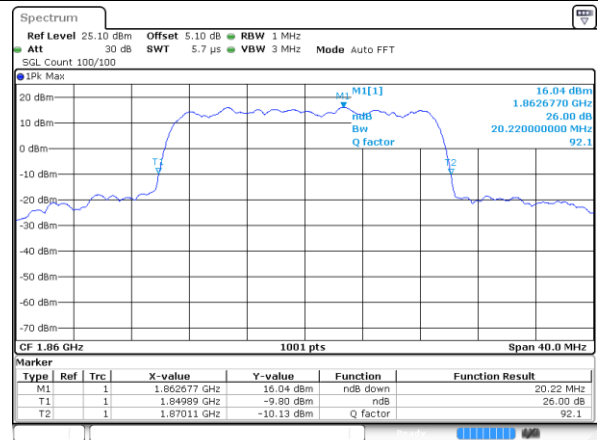
LTE Band 2

Lowest Channel / 15MHz / 64QAM



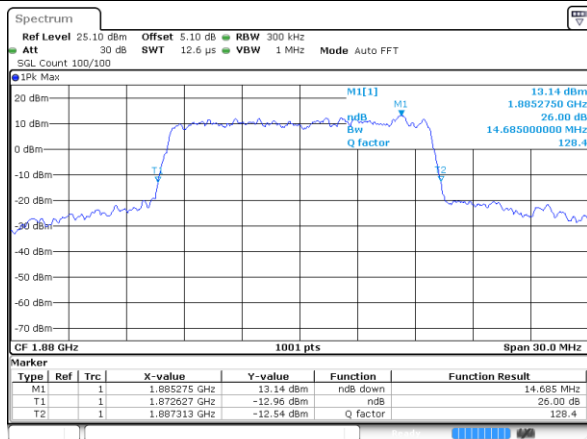
Date: 10 MAY 2018 13:53:35

Lowest Channel / 20MHz / 64QAM



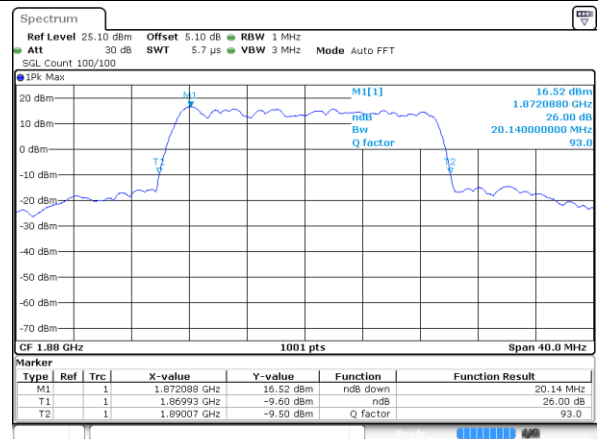
Date: 10 MAY 2018 13:54:07

Middle Channel / 15MHz / 64QAM



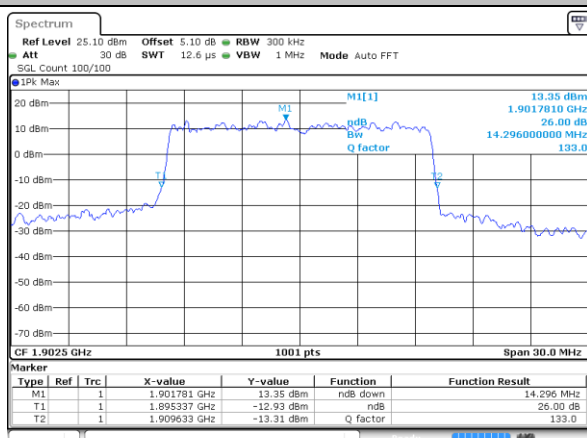
Date: 10 MAY 2018 13:53:46

Middle Channel / 20MHz / 64QAM



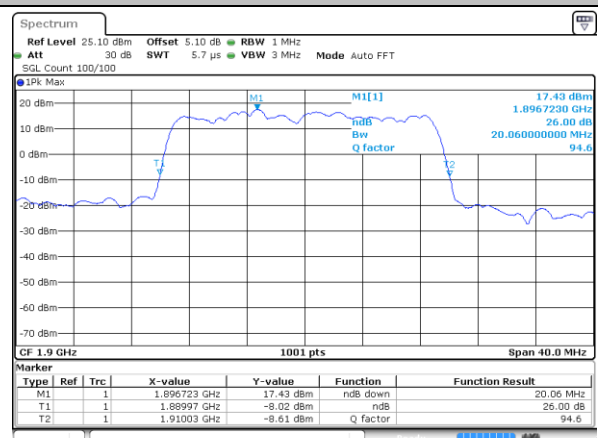
Date: 10 MAY 2018 13:54:19

Highest Channel / 15MHz / 64QAM



Date: 10 MAY 2018 13:53:57

Highest Channel / 20MHz / 64QAM

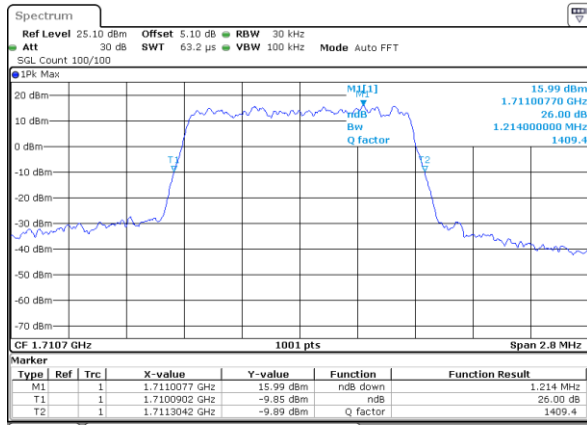


Date: 10 MAY 2018 13:54:30



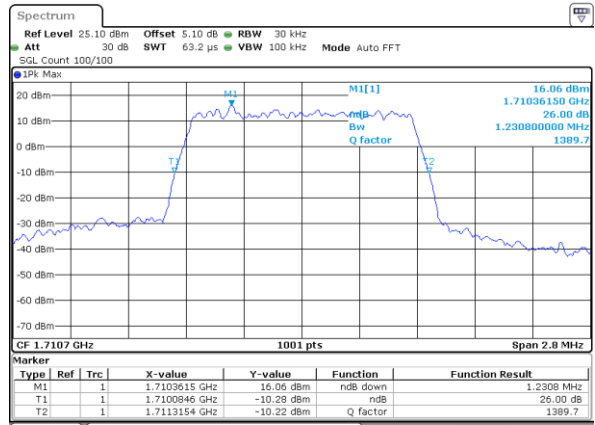
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



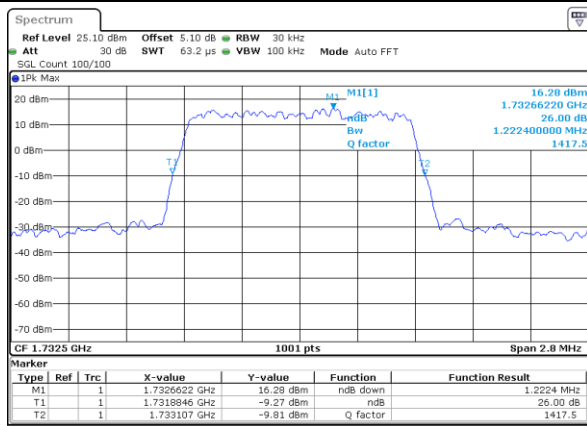
Date: 10 MAY 2018 17:27:23

Lowest Channel / 1.4MHz / 16QAM



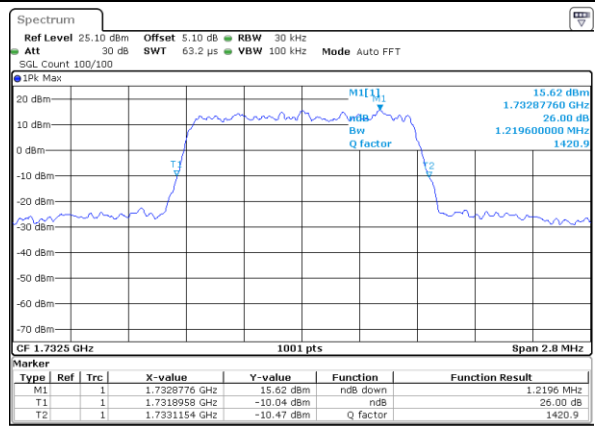
Date: 10 MAY 2018 17:27:34

Middle Channel / 1.4MHz / QPSK



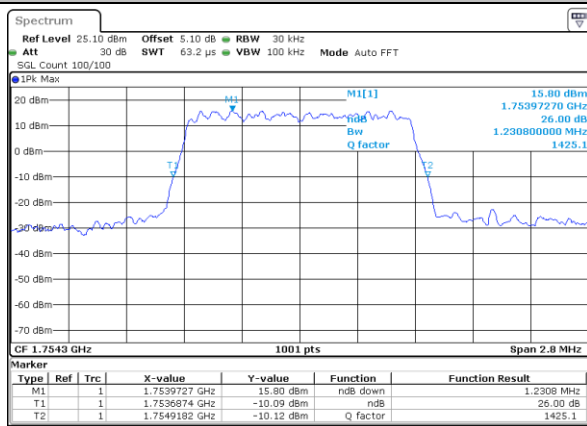
Date: 10 MAY 2018 17:34:29

Middle Channel / 1.4MHz / 16QAM



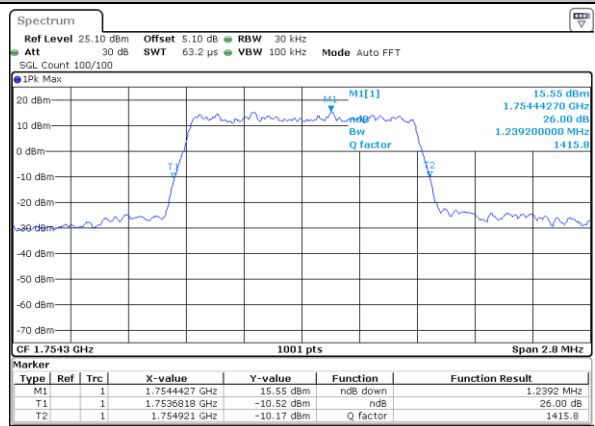
Date: 10 MAY 2018 17:34:40

Highest Channel / 1.4MHz / QPSK



Date: 10 MAY 2018 17:37:03

Highest Channel / 1.4MHz / 16QAM

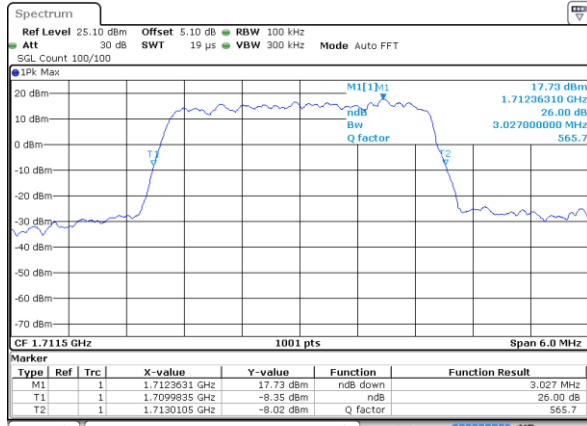


Date: 10 MAY 2018 17:37:13



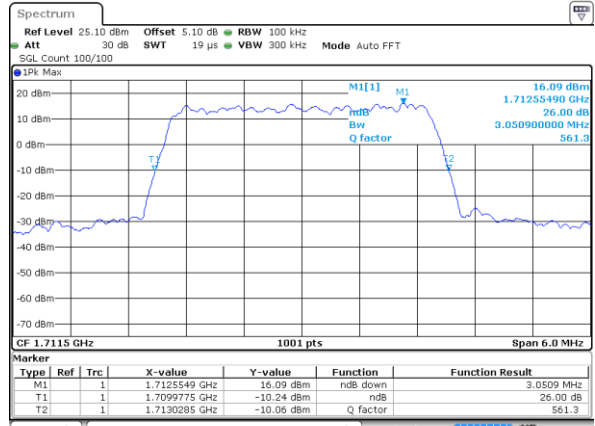
LTE Band 4

Lowest Channel / 3MHz / QPSK



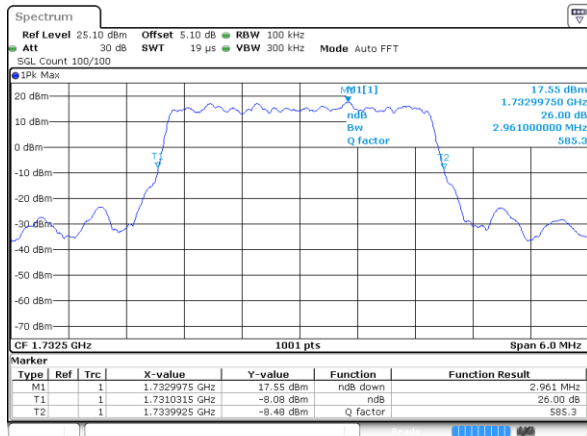
Date: 10 MAY 2018 17:44:09

Lowest Channel / 3MHz / 16QAM



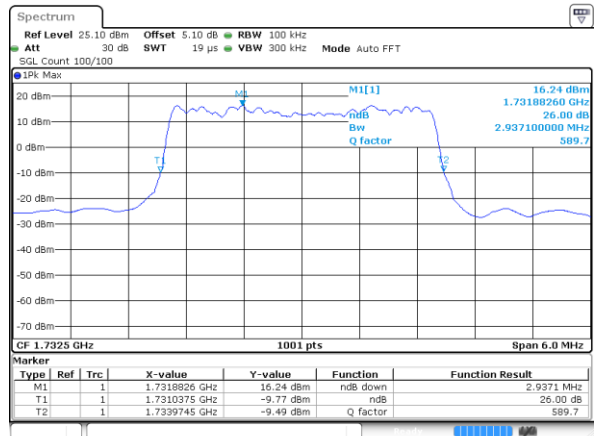
Date: 10 MAY 2018 17:44:20

Middle Channel / 3MHz / QPSK



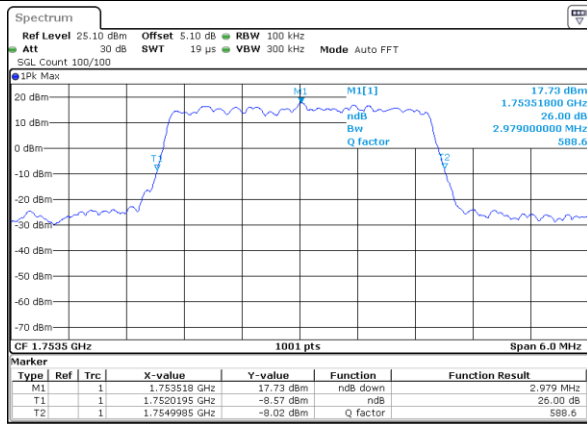
Date: 10 MAY 2018 17:51:15

Middle Channel / 3MHz / 16QAM



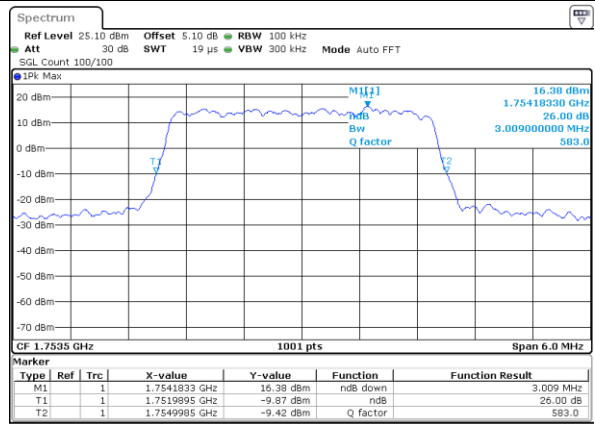
Date: 10 MAY 2018 17:51:26

Highest Channel / 3MHz / QPSK



Date: 10 MAY 2018 17:53:49

Highest Channel / 3MHz / 16QAM

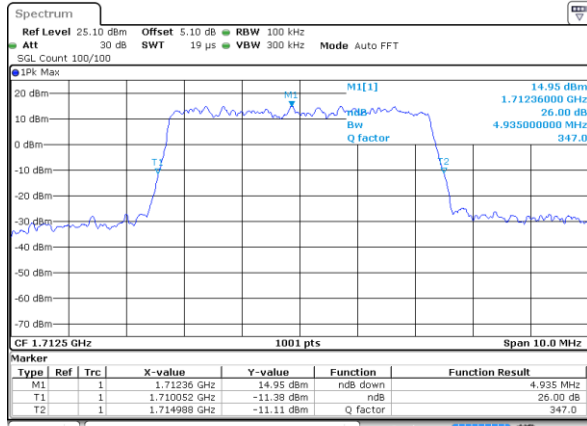


Date: 10 MAY 2018 17:54:00

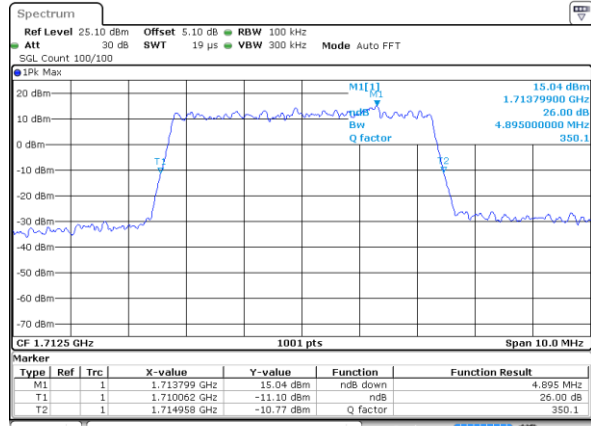


LTE Band 4

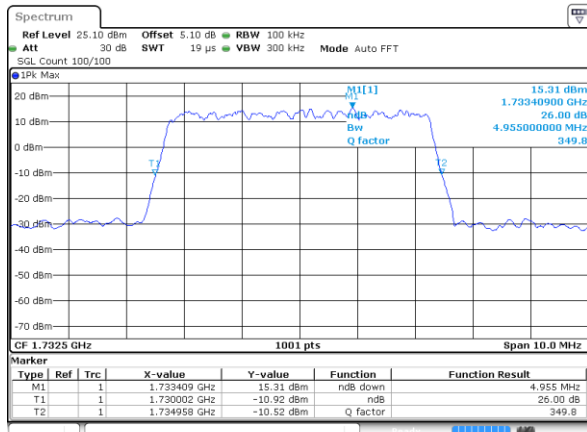
Lowest Channel / 5MHz / QPSK



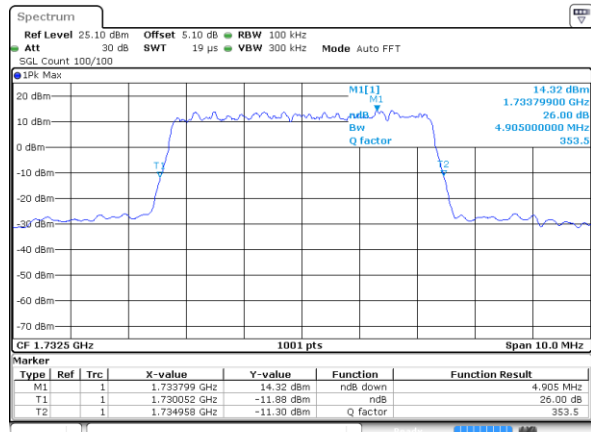
Lowest Channel / 5MHz / 16QAM



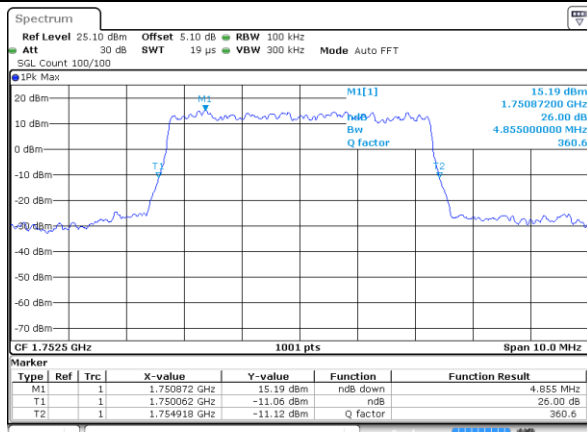
Middle Channel / 5MHz / QPSK



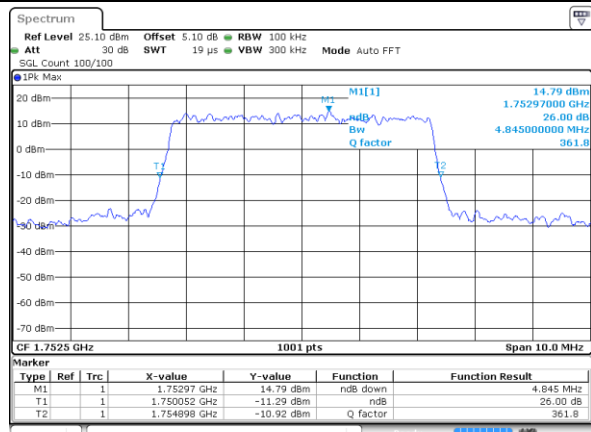
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



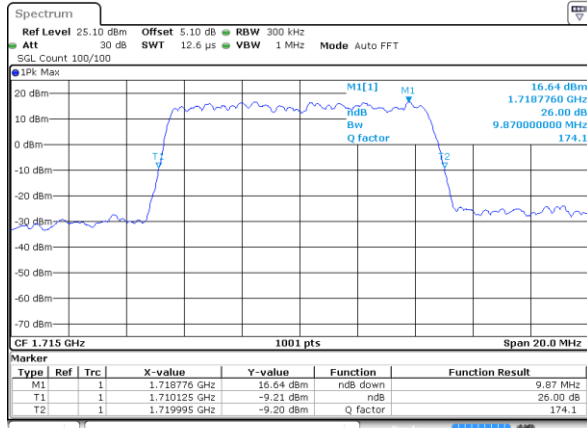
Highest Channel / 5MHz / 16QAM





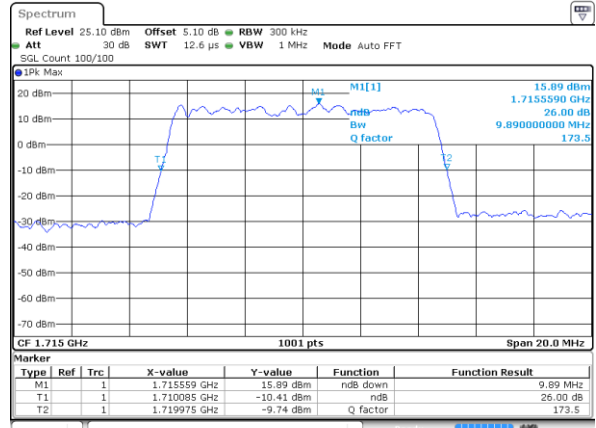
LTE Band 4

Lowest Channel / 10MHz / QPSK



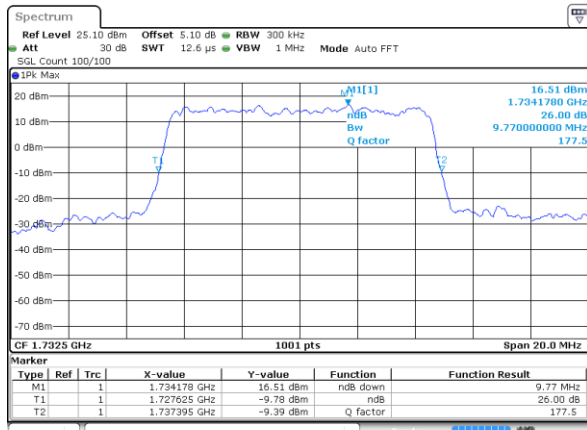
Date: 10 MAY 2018 18:33:40

Lowest Channel / 10MHz / 16QAM



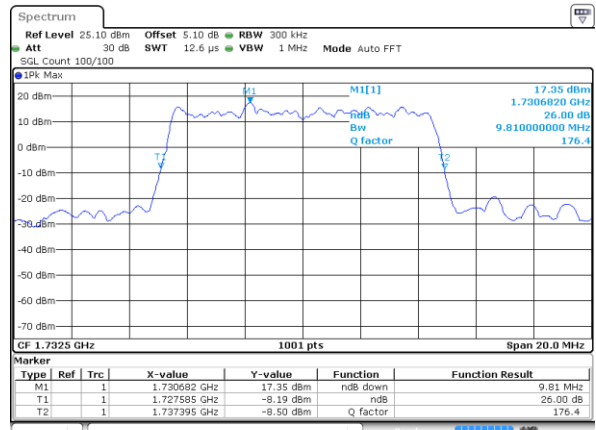
Date: 10 MAY 2018 18:33:51

Middle Channel / 10MHz / QPSK



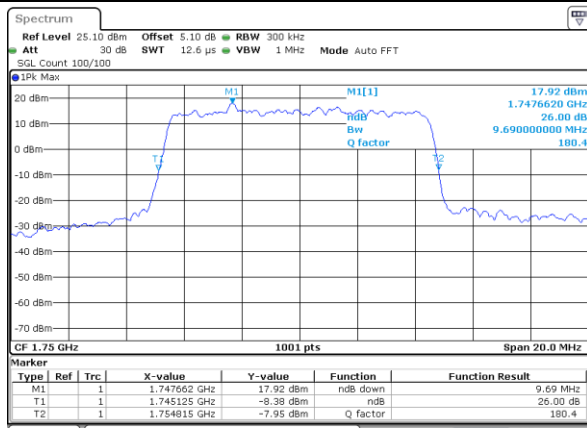
Date: 10 MAY 2018 18:40:47

Middle Channel / 10MHz / 16QAM



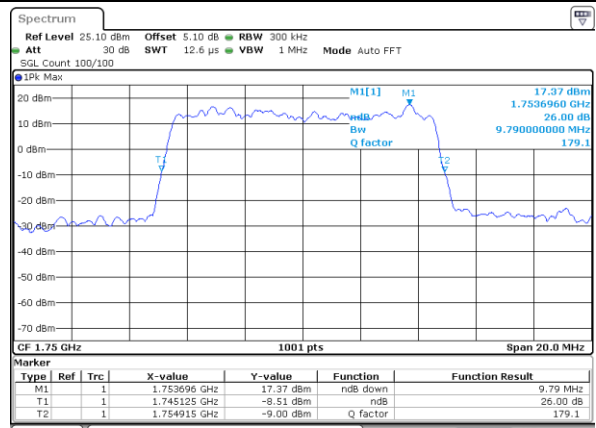
Date: 10 MAY 2018 18:40:58

Highest Channel / 10MHz / QPSK



Date: 10 MAY 2018 18:43:22

Highest Channel / 10MHz / 16QAM

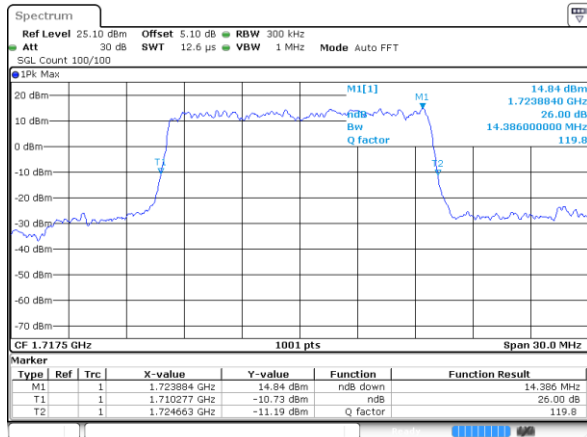


Date: 10 MAY 2018 18:43:32

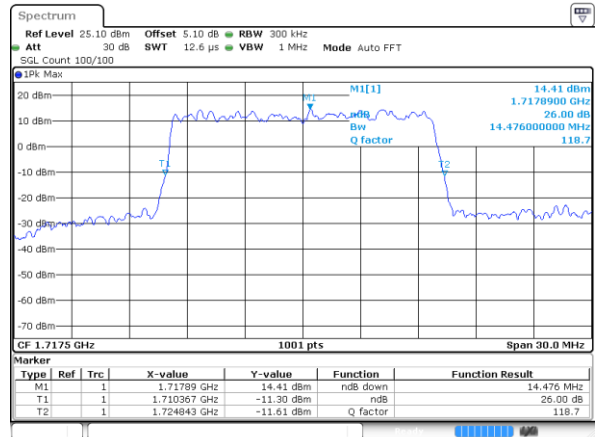


LTE Band 4

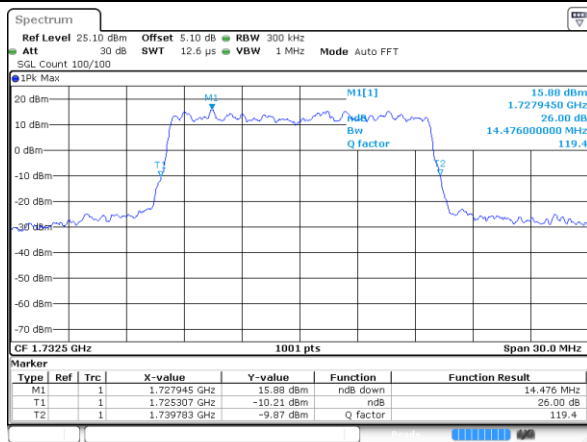
Lowest Channel / 15MHz / QPSK



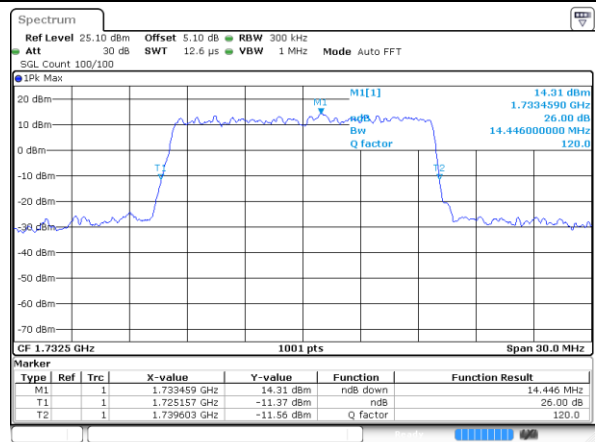
Lowest Channel / 15MHz / 16QAM



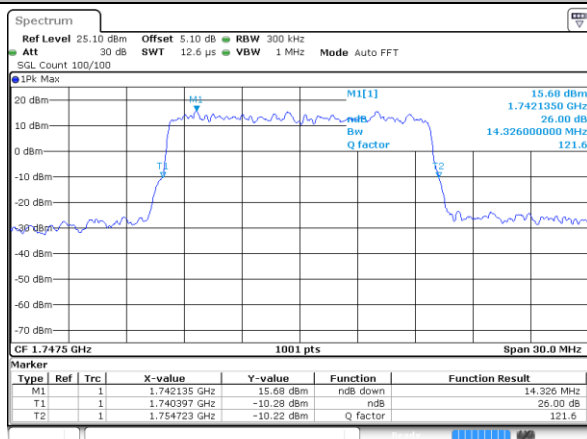
Middle Channel / 15MHz / QPSK



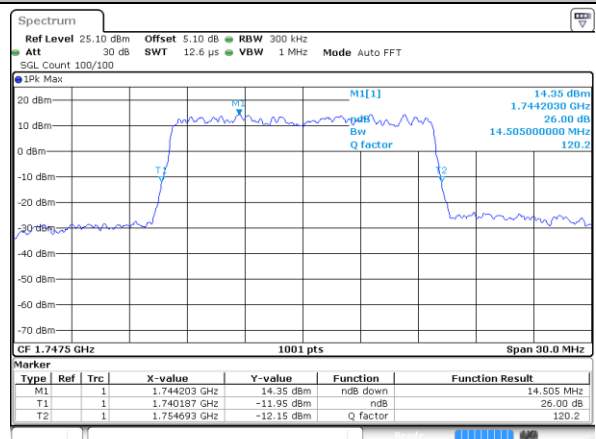
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



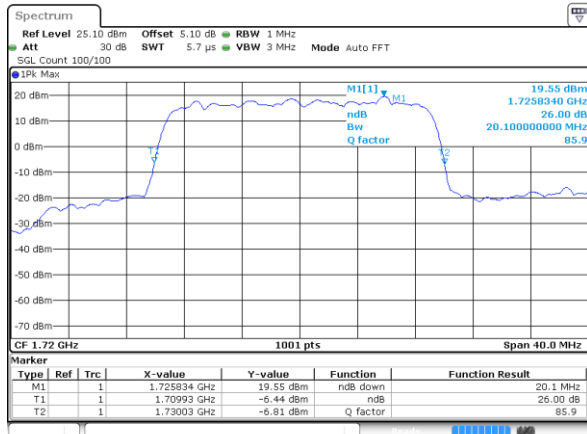
Highest Channel / 15MHz / 16QAM



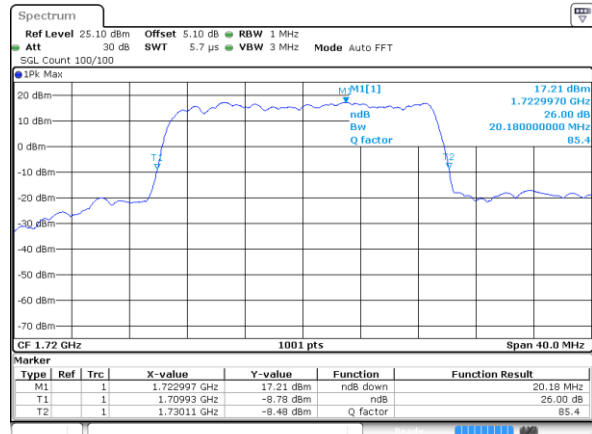


LTE Band 4

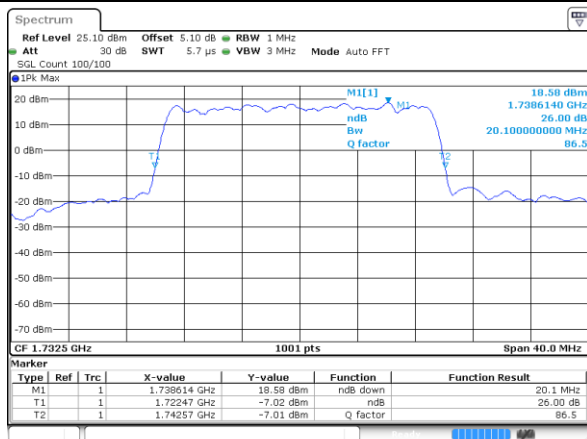
Lowest Channel / 20MHz / QPSK



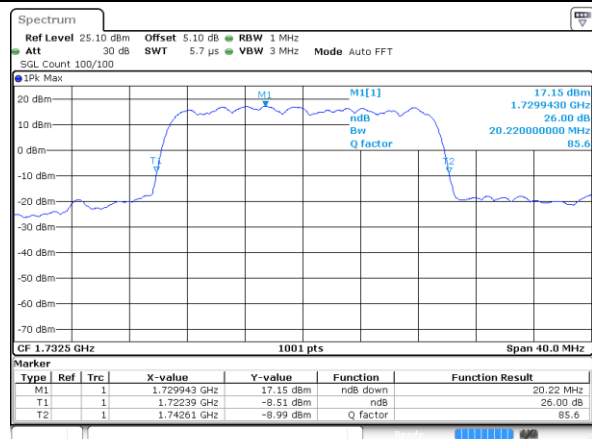
Lowest Channel / 20MHz / 16QAM



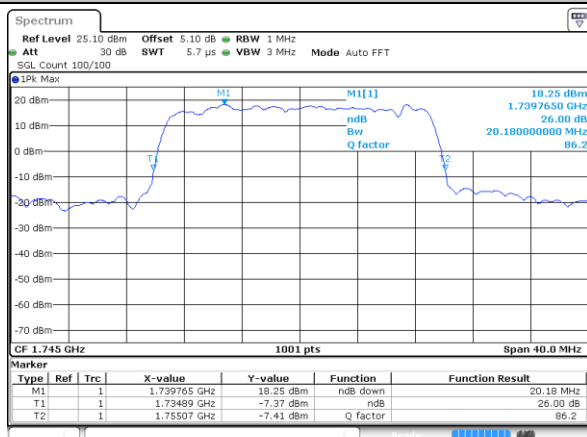
Middle Channel / 20MHz / QPSK



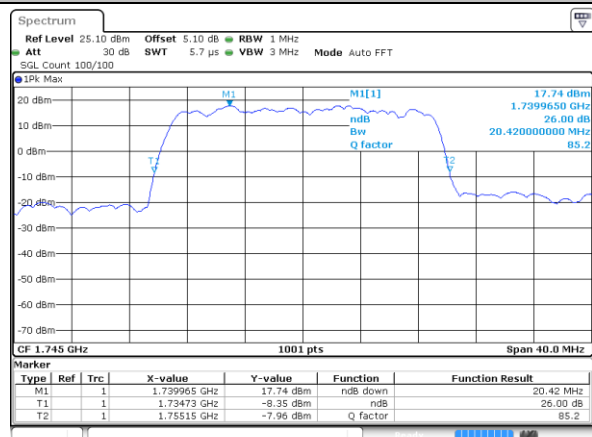
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



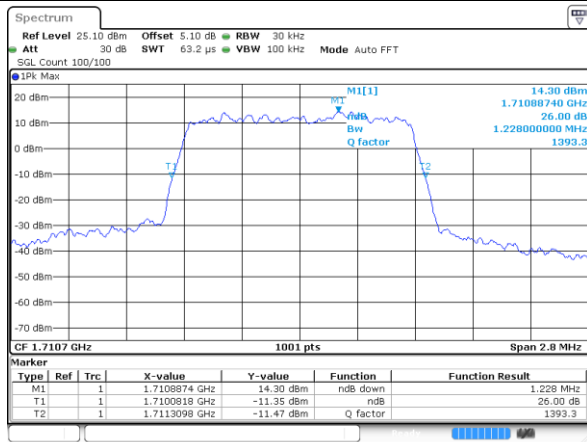
Highest Channel / 20MHz / 16QAM





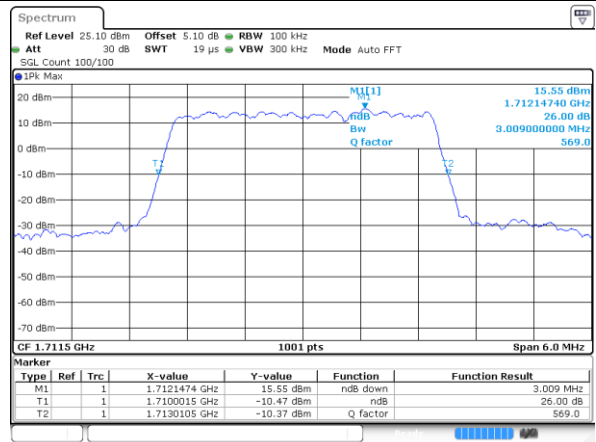
LTE Band 4

Lowest Channel / 1.4MHz / 64QAM



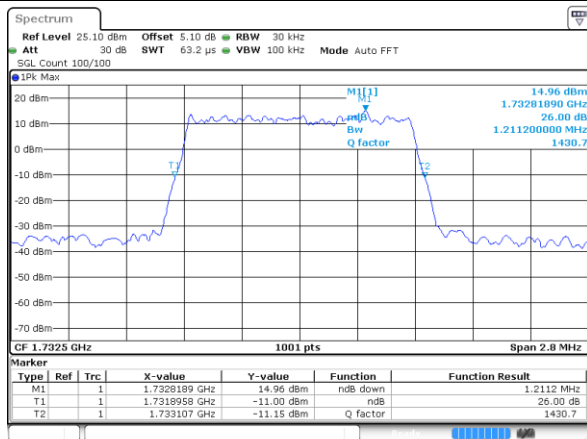
Date: 10 MAY 2018 19:38:22

Lowest Channel / 3MHz / 64QAM



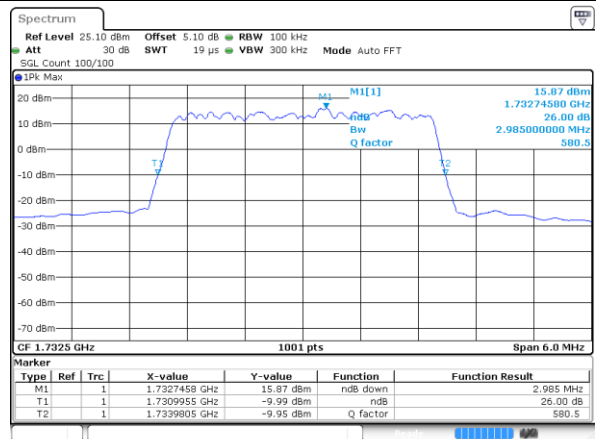
Date: 10 MAY 2018 19:38:26

Middle Channel / 1.4MHz / 64QAM



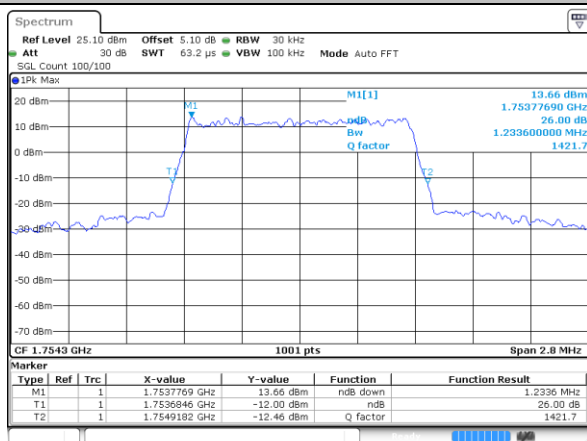
Date: 10 MAY 2018 19:38:43

Middle Channel / 3MHz / 64QAM



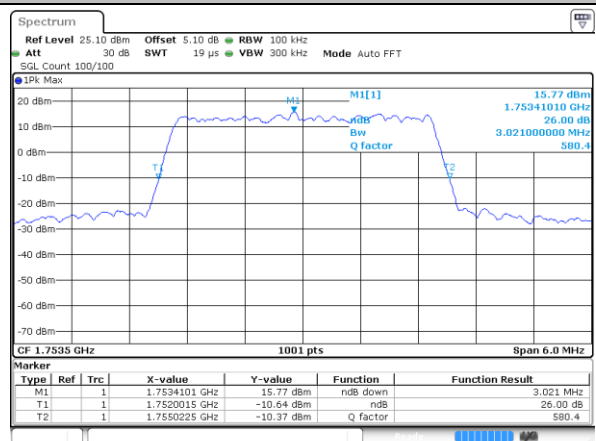
Date: 10 MAY 2018 19:38:47

Highest Channel / 1.4MHz / 64QAM



Date: 10 MAY 2018 19:39:05

Highest Channel / 3MHz / 64QAM

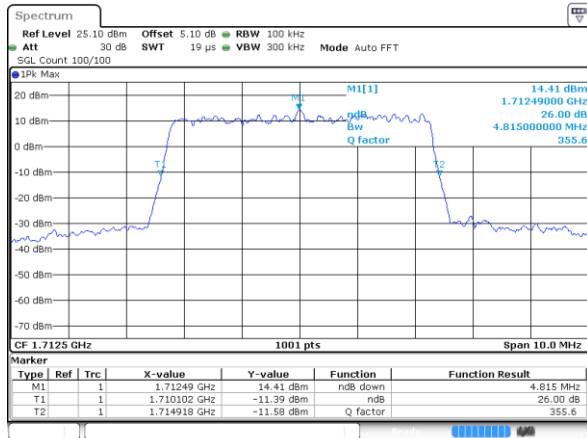


Date: 10 MAY 2018 19:40:09



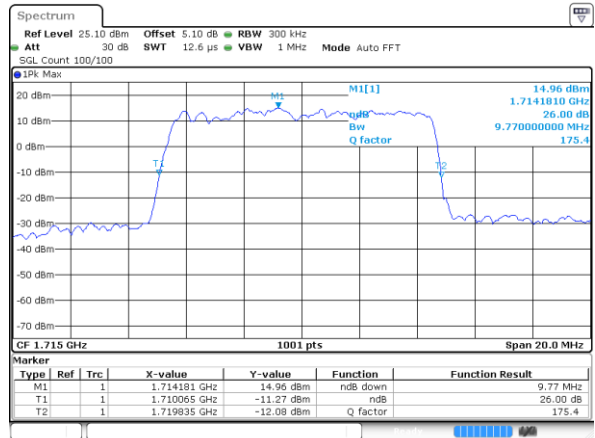
LTE Band 4

Lowest Channel / 5MHz / 64QAM



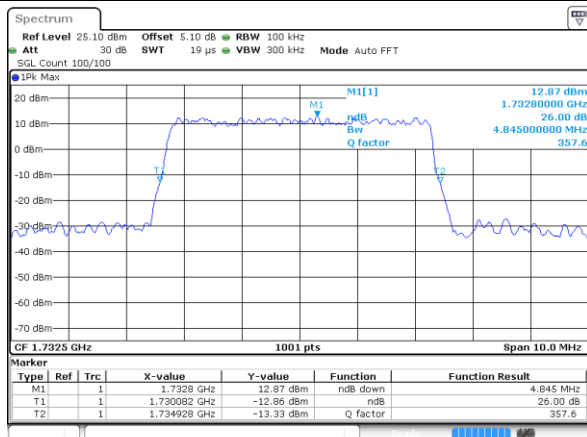
Date: 10 MAY 2018 19:40:30

Lowest Channel / 10MHz / 64QAM



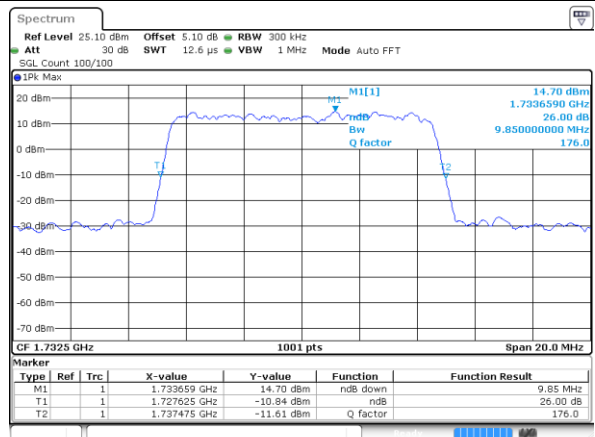
Date: 10 MAY 2018 19:41:35

Middle Channel / 5MHz / 64QAM



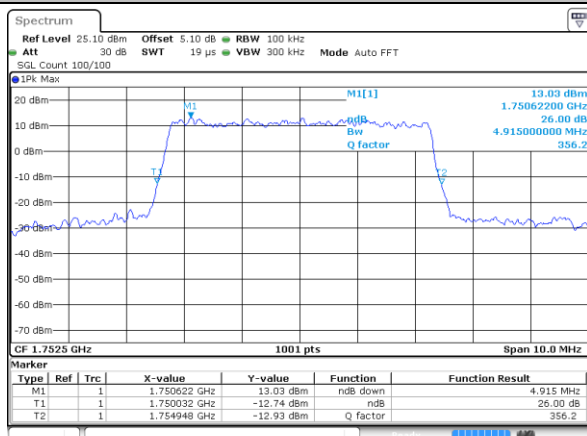
Date: 10 MAY 2018 19:40:52

Middle Channel / 10MHz / 64QAM



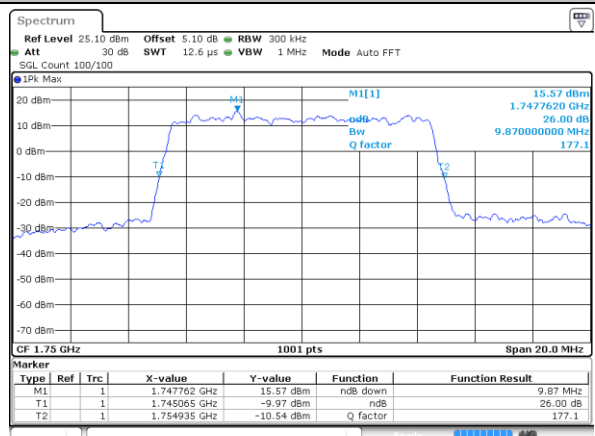
Date: 10 MAY 2018 19:41:56

Highest Channel / 5MHz / 64QAM



Date: 10 MAY 2018 19:41:13

Highest Channel / 10MHz / 64QAM

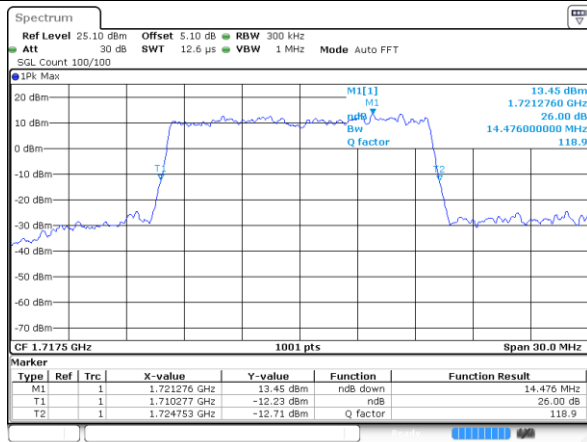


Date: 10 MAY 2018 19:42:18



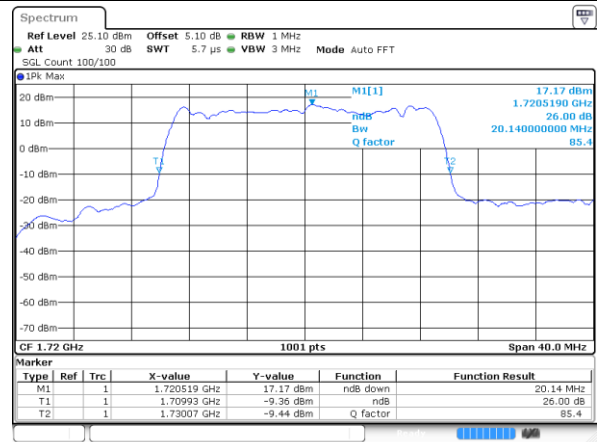
LTE Band 4

Lowest Channel / 15MHz / 64QAM



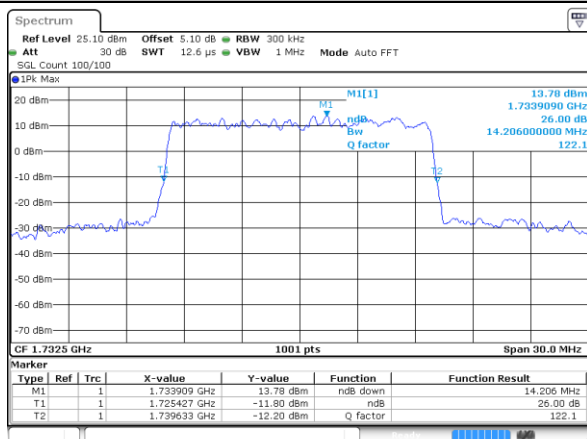
Date: 10 MAY 2018 19:42:39

Lowest Channel / 20MHz / 64QAM



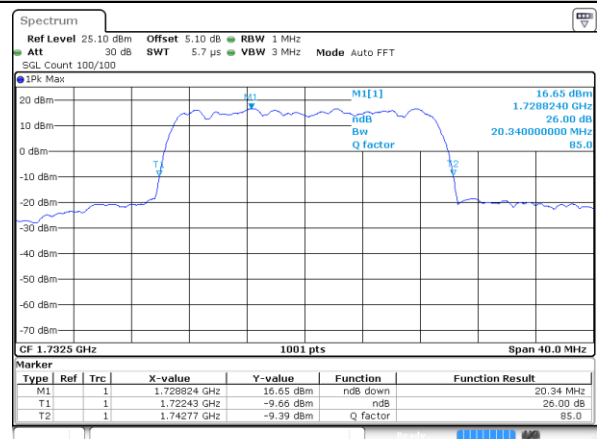
Date: 10 MAY 2018 19:43:43

Middle Channel / 15MHz / 64QAM



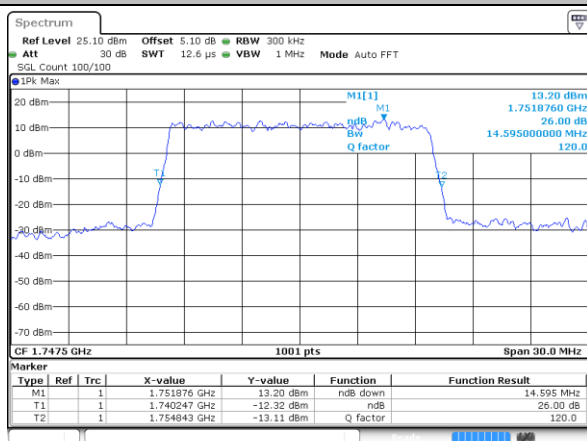
Date: 10 MAY 2018 19:43:00

Middle Channel / 20MHz / 64QAM



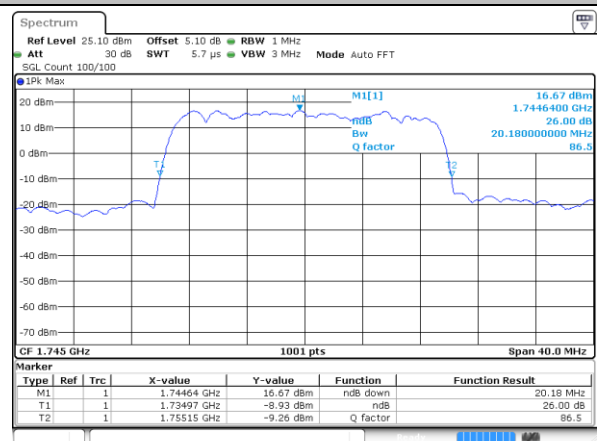
Date: 10 MAY 2018 19:44:05

Highest Channel / 15MHz / 64QAM



Date: 10 MAY 2018 19:43:22

Highest Channel / 20MHz / 64QAM

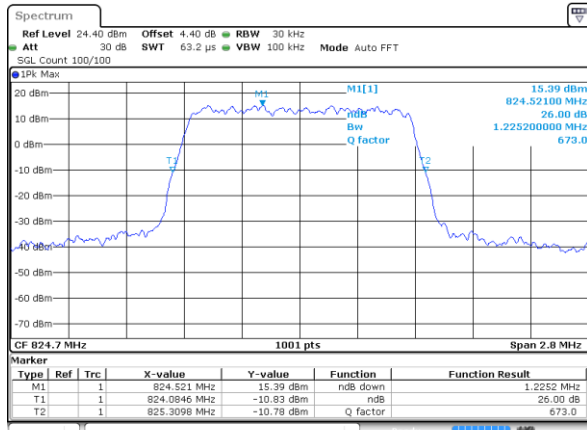


Date: 10 MAY 2018 19:44:26



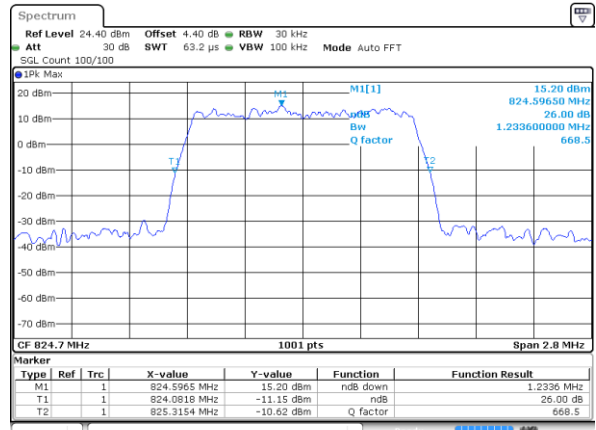
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



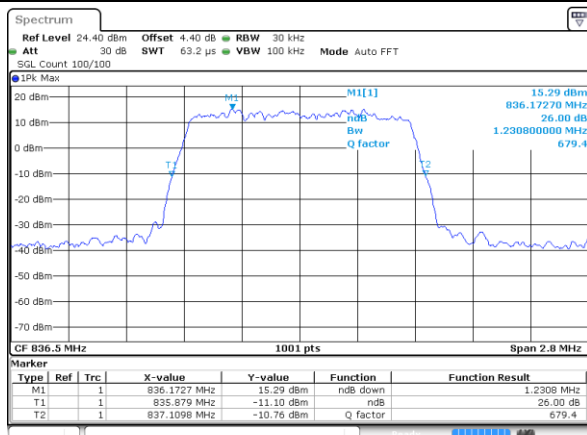
Date: 10 MAY 2018 14:55:47

Lowest Channel / 1.4MHz / 16QAM



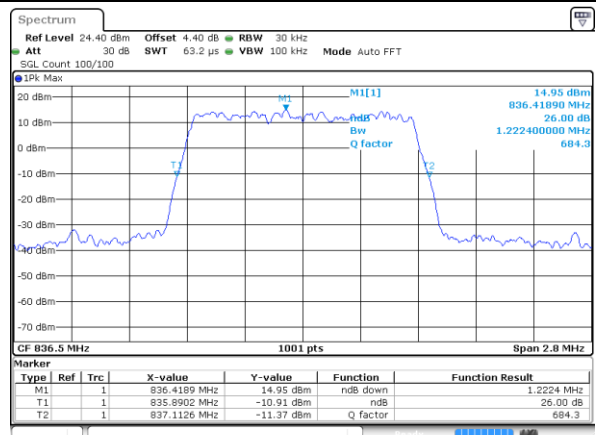
Date: 10 MAY 2018 14:55:36

Middle Channel / 1.4MHz / QPSK



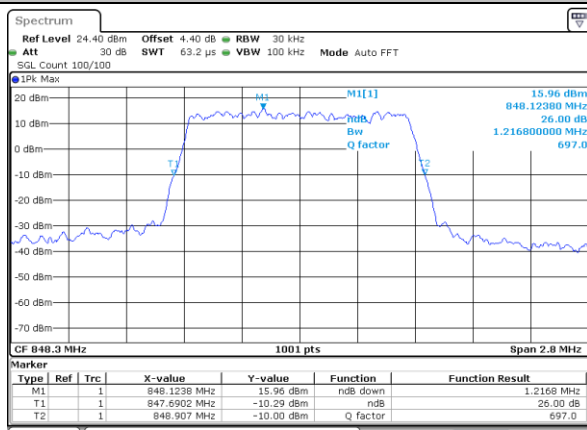
Date: 10 MAY 2018 15:04:42

Middle Channel / 1.4MHz / 16QAM



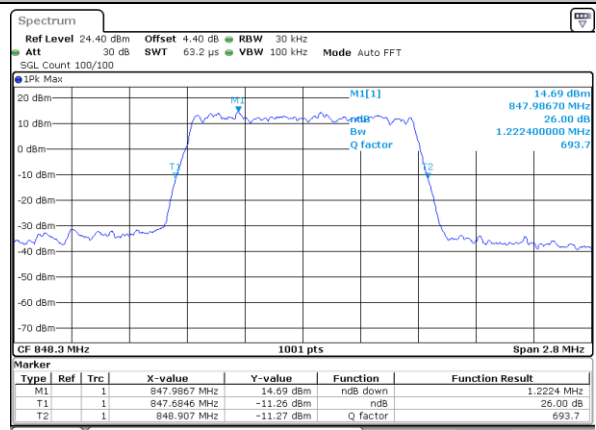
Date: 10 MAY 2018 15:04:52

Highest Channel / 1.4MHz / QPSK



Date: 10 MAY 2018 15:07:15

Highest Channel / 1.4MHz / 16QAM

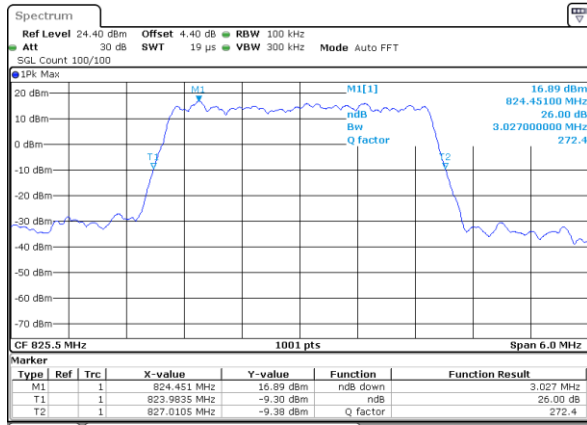


Date: 10 MAY 2018 15:07:26



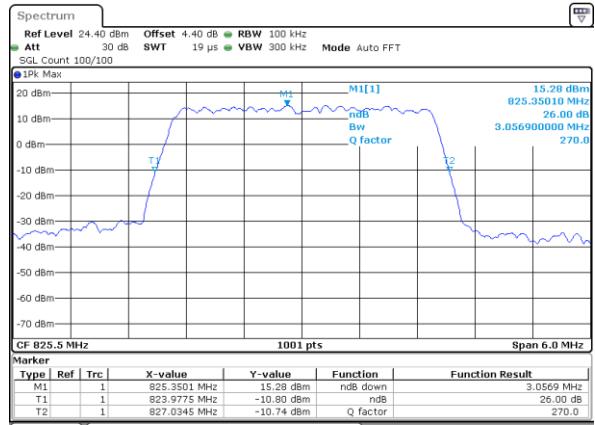
LTE Band 5

Lowest Channel / 3MHz / QPSK



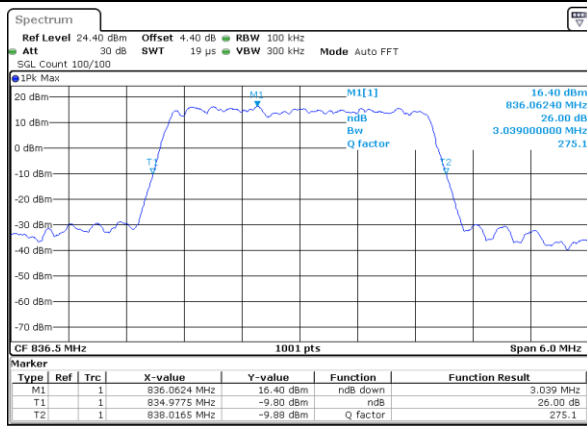
Date: 10 MAY 2018 15:16:21

Lowest Channel / 3MHz / 16QAM



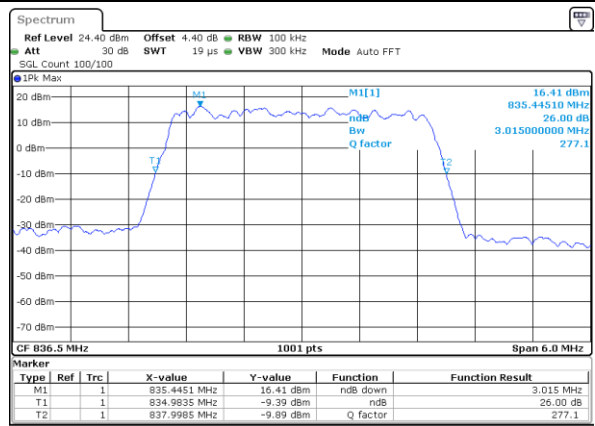
Date: 10 MAY 2018 15:16:31

Middle Channel / 3MHz / QPSK



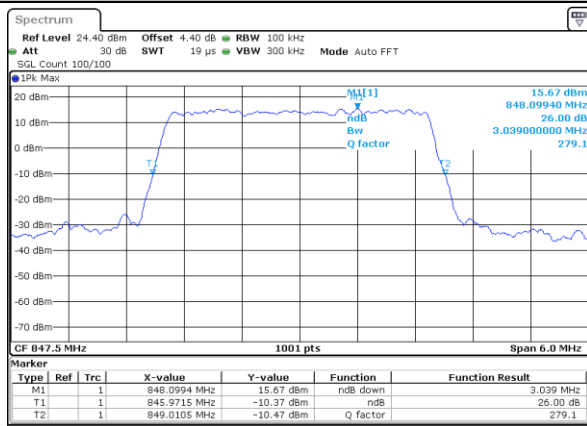
Date: 10 MAY 2018 15:25:27

Middle Channel / 3MHz / 16QAM



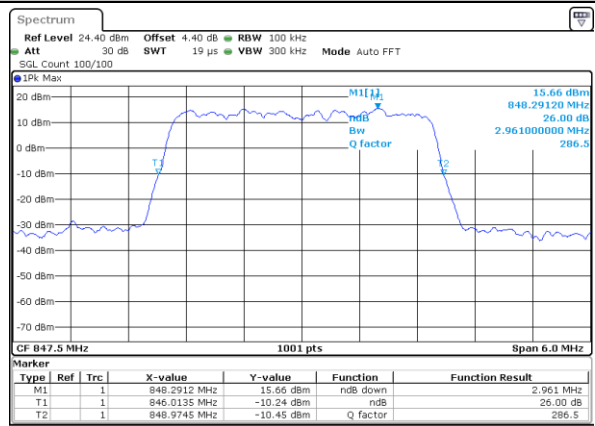
Date: 10 MAY 2018 15:25:37

Highest Channel / 3MHz / QPSK



Date: 10 MAY 2018 15:28:00

Highest Channel / 3MHz / 16QAM



Date: 10 MAY 2018 15:28:10