

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0104	
30	Normal Voltage	0.0107	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0086	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0100	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.77	4.52	4.35	5.57	PASS
Middle CH	3.16	4.81	3.80	5.94	
Highest CH	3.30	4.61	3.80	5.54	

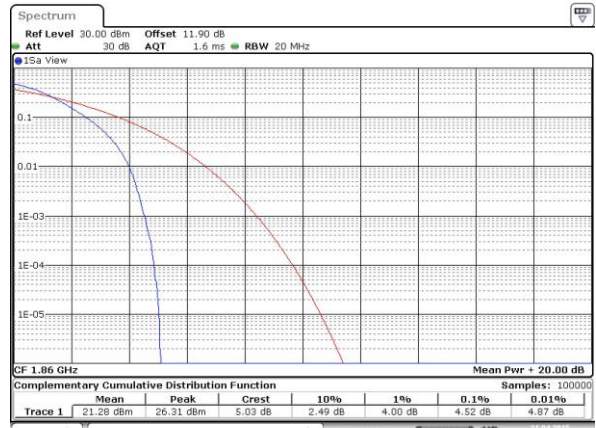


LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



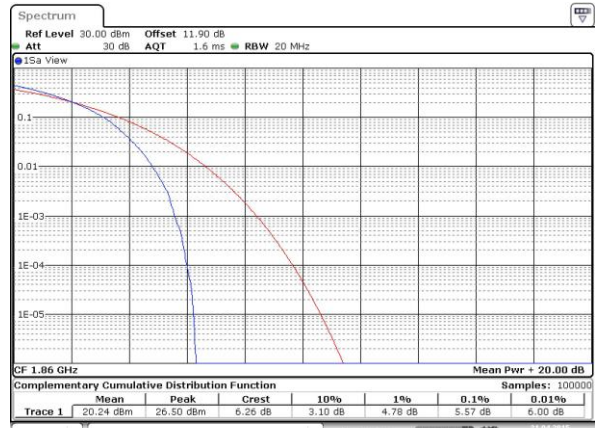


LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



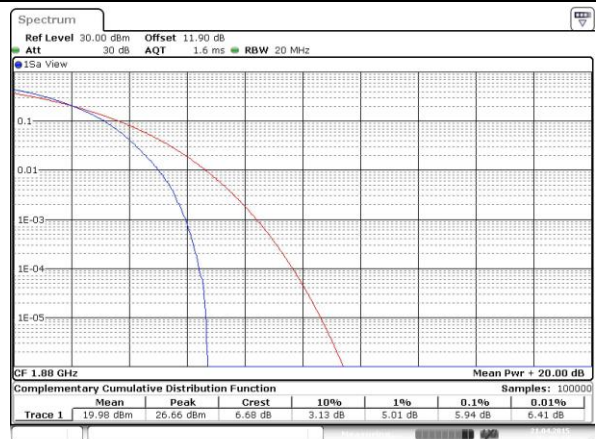
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





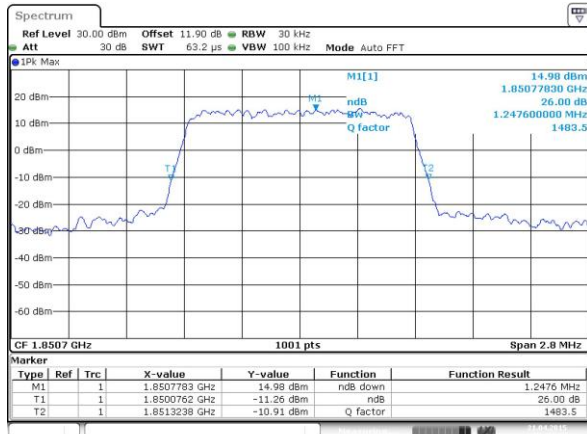
26dB Bandwidth

Mode	LTE Band 25 : 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	1.25	1.24	3.05	3.07	5.00	4.99	9.87	9.83	14.54	14.48	20.10	20.30
Middle CH	1.24	1.24	3.06	3.10	4.99	4.99	9.95	9.93	14.60	14.72	20.18	20.34
Highest CH	1.24	1.24	3.09	3.07	5.02	4.99	9.87	9.85	14.60	14.60	20.38	20.18

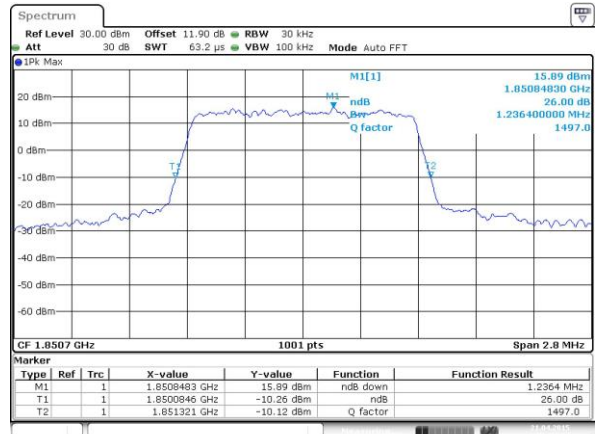


LTE Band 25

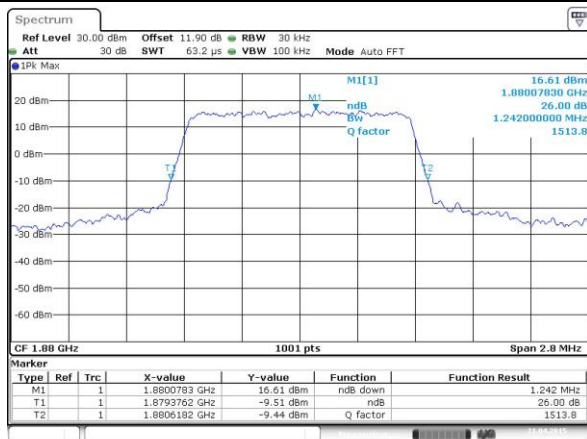
Lowest Channel / 1.4MHz / QPSK



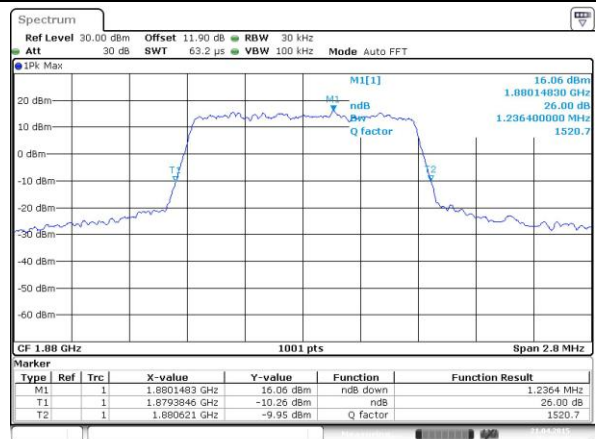
Lowest Channel / 1.4MHz / 16QAM



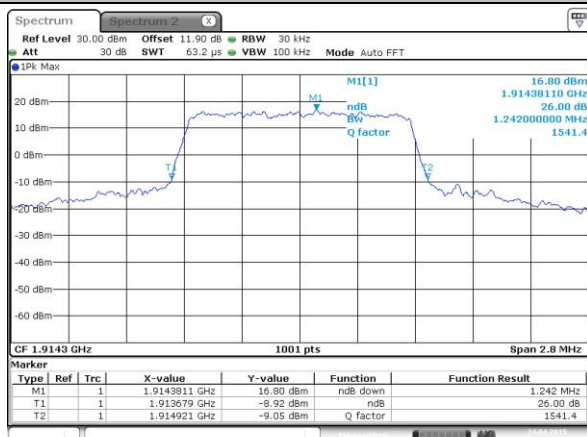
Middle Channel / 1.4MHz / QPSK



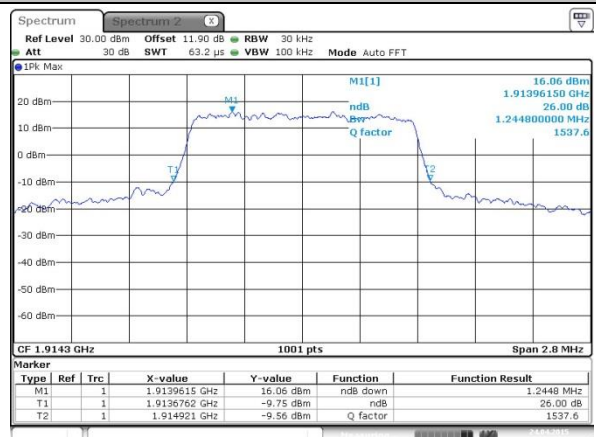
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



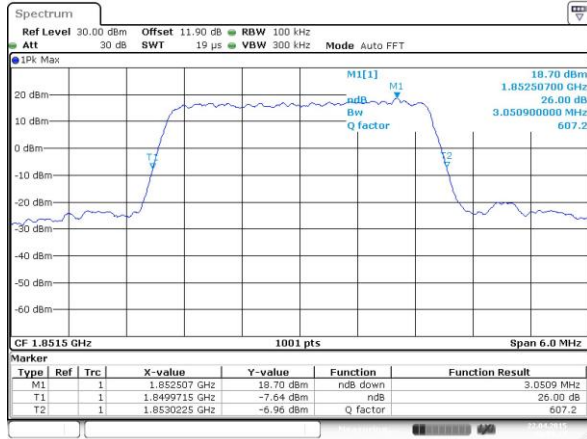
Highest Channel / 1.4MHz / 16QAM



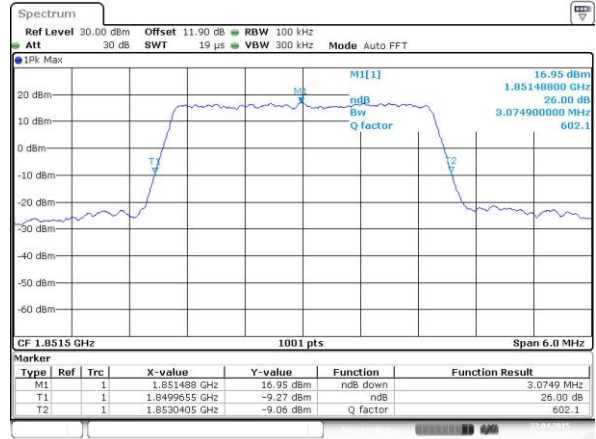


LTE Band 25

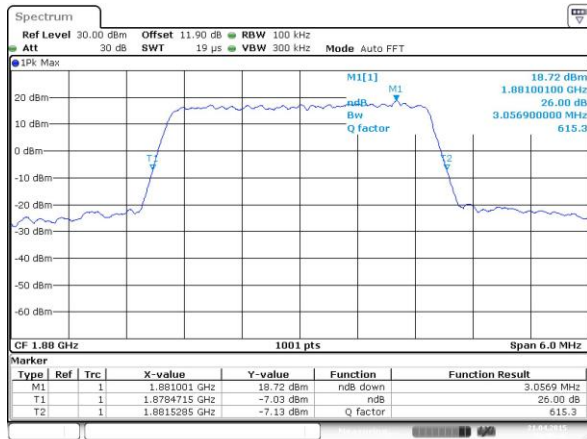
Lowest Channel / 3MHz / QPSK



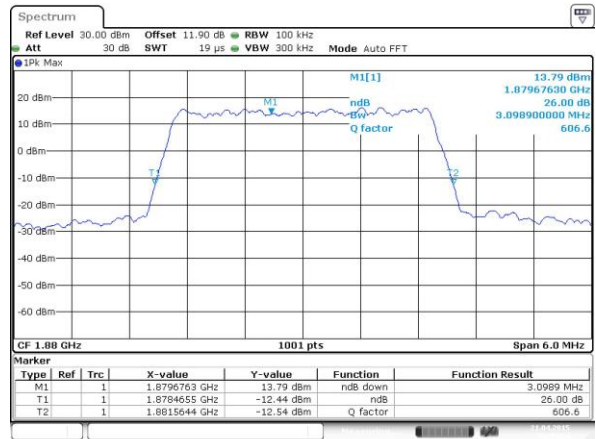
Lowest Channel / 3MHz / 16QAM



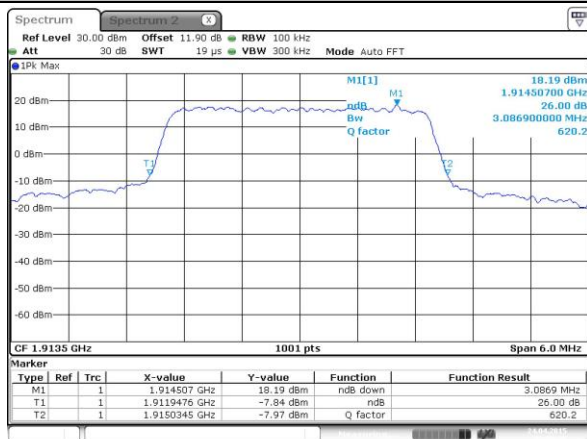
Middle Channel / 3MHz / QPSK



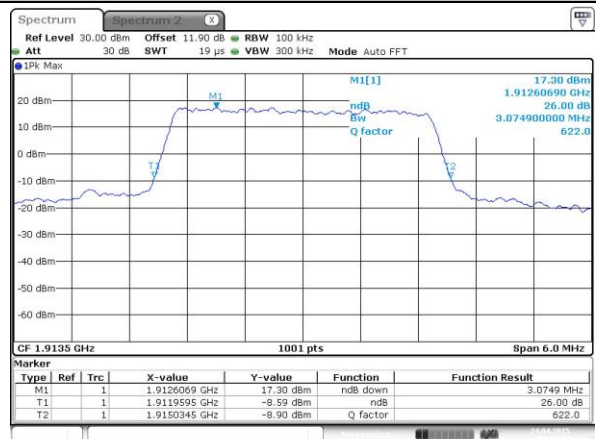
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



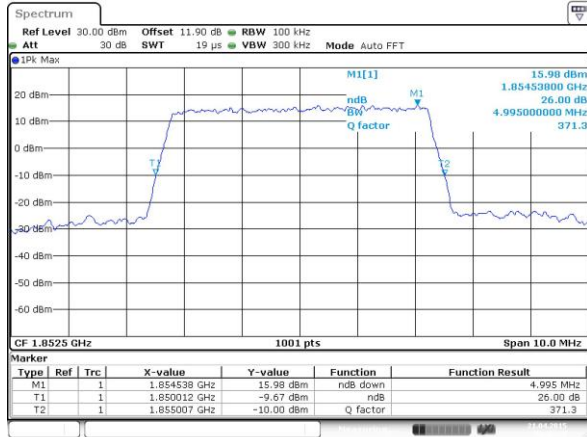
Highest Channel / 3MHz / 16QAM



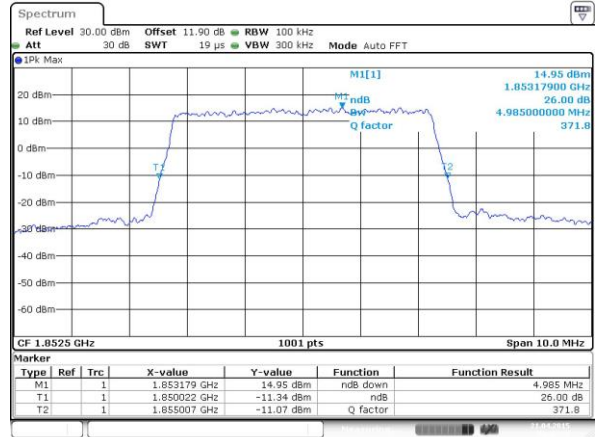


LTE Band 25

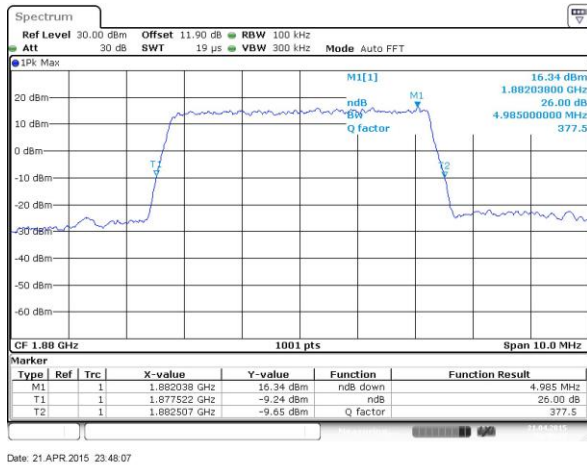
Lowest Channel / 5MHz / QPSK



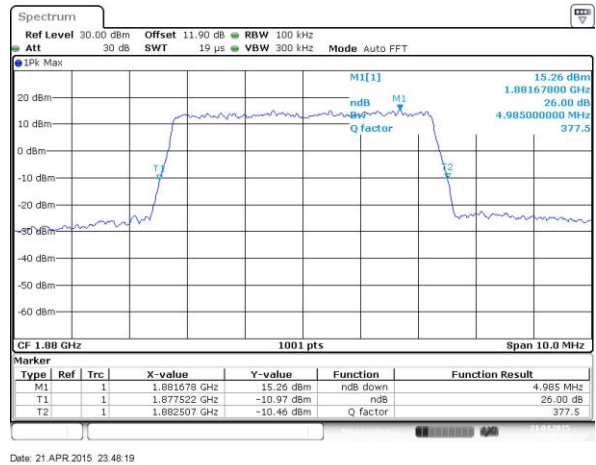
Lowest Channel / 5MHz / 16QAM



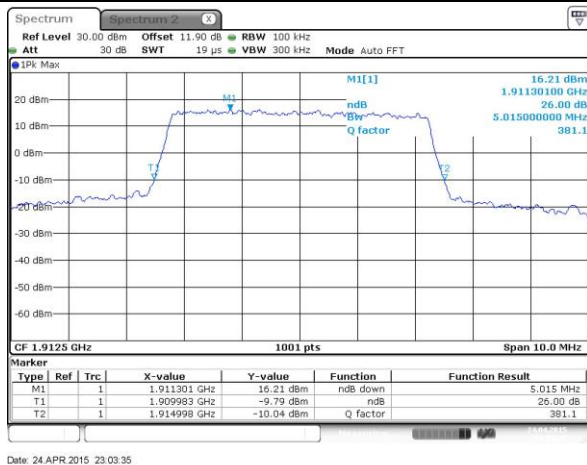
Middle Channel / 5MHz / QPSK



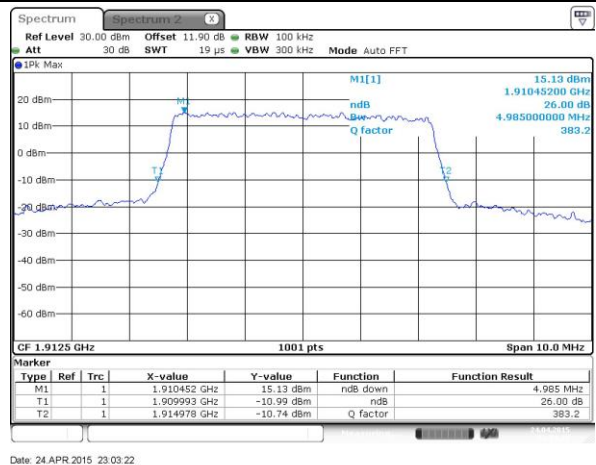
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



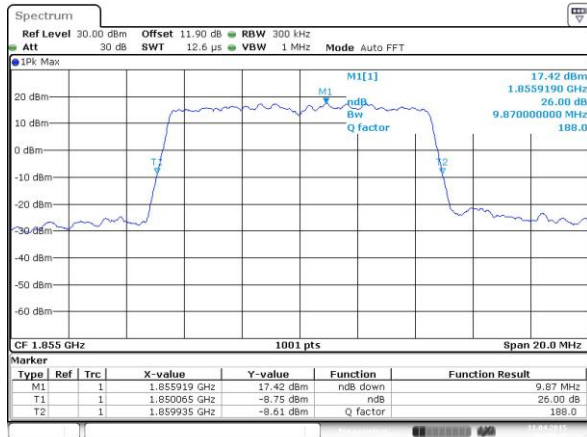
Highest Channel / 5MHz / 16QAM



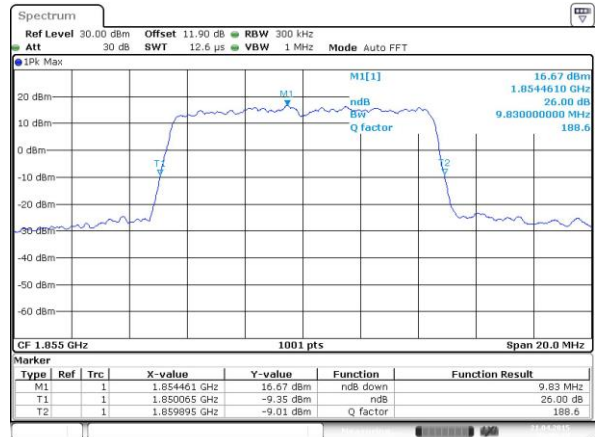


LTE Band 25

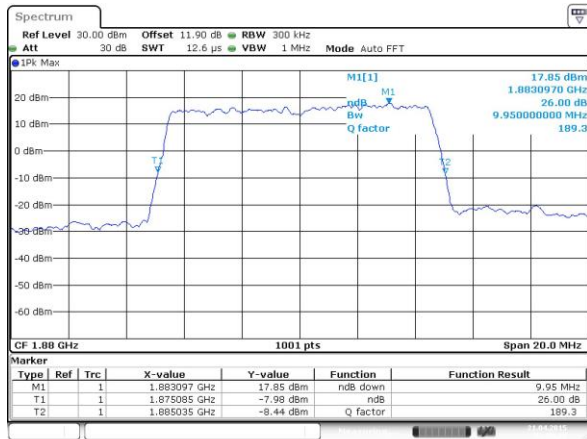
Lowest Channel / 10MHz / QPSK



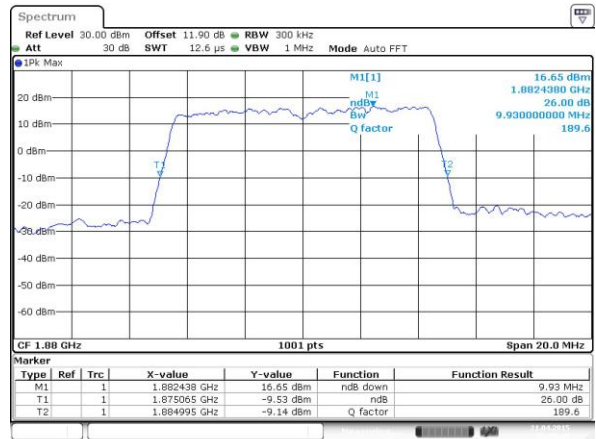
Lowest Channel / 10MHz / 16QAM



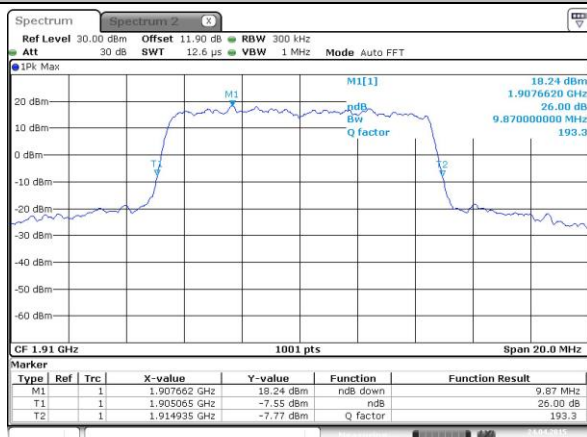
Middle Channel / 10MHz / QPSK



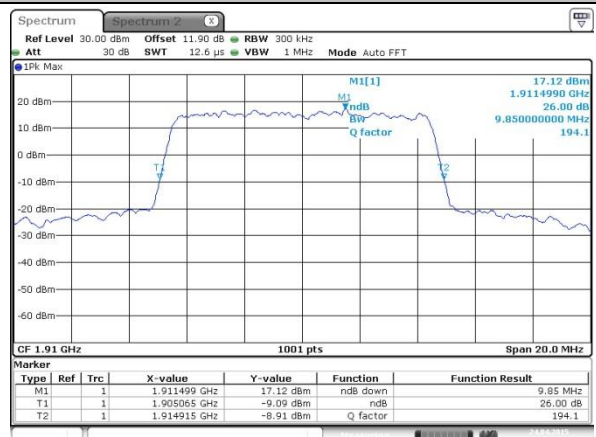
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



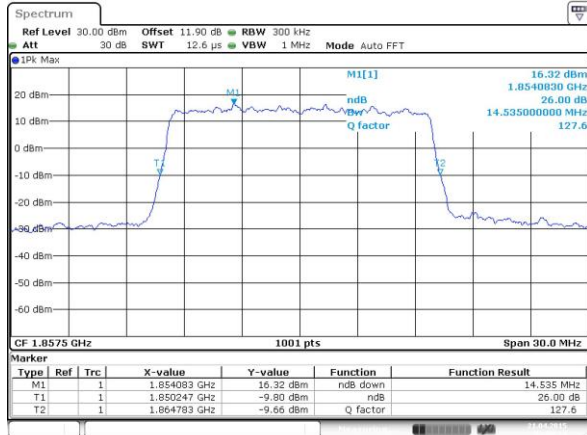
Highest Channel / 10MHz / 16QAM





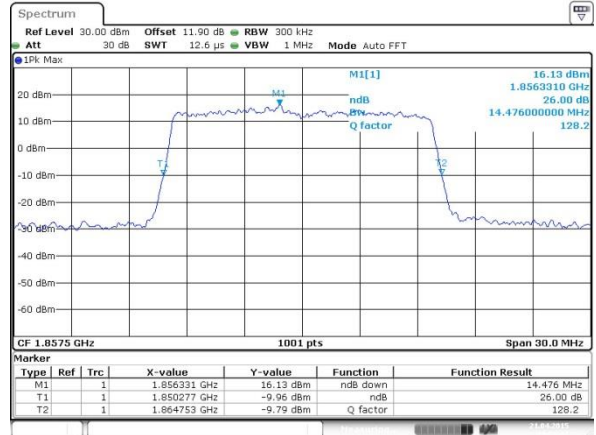
LTE Band 25

Lowest Channel / 15MHz / QPSK



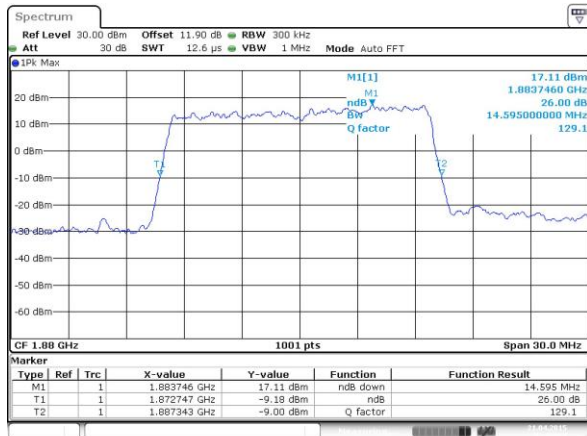
Date: 21 APR 2015 23:52:10

Lowest Channel / 15MHz / 16QAM



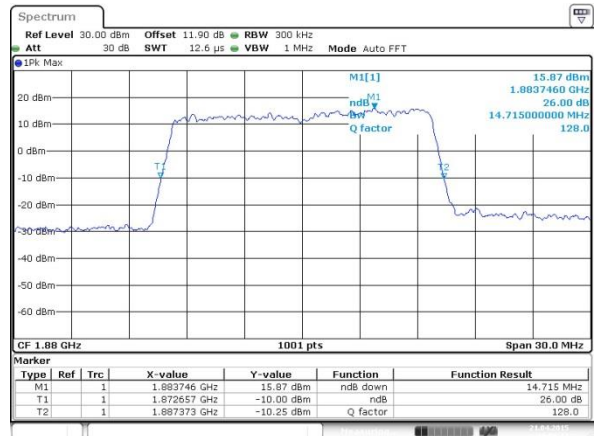
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Middle Channel / 15MHz / QPSK



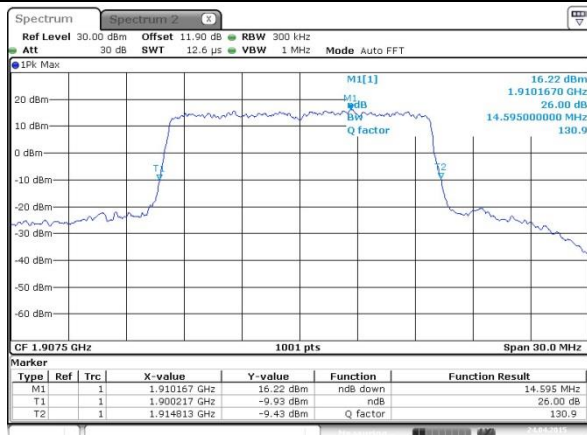
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Middle Channel / 15MHz / 16QAM



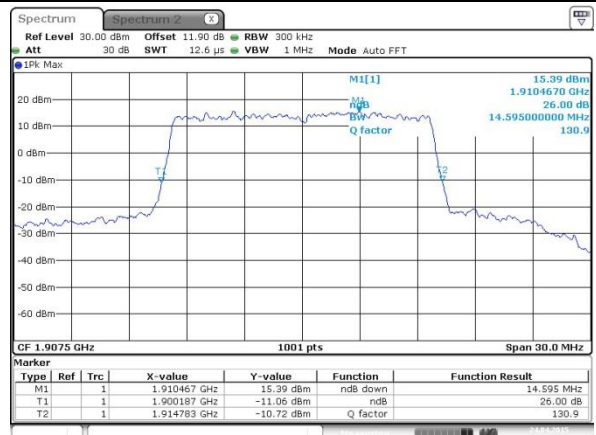
Date: 21 APR 2015 23:53:10

Highest Channel / 15MHz / QPSK



Date: 24 APR 2015 23:19:17

Highest Channel / 15MHz / 16QAM

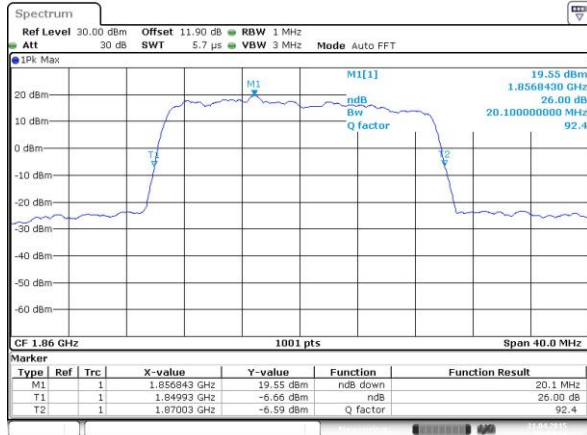


Date: 24 APR 2015 23:19:04



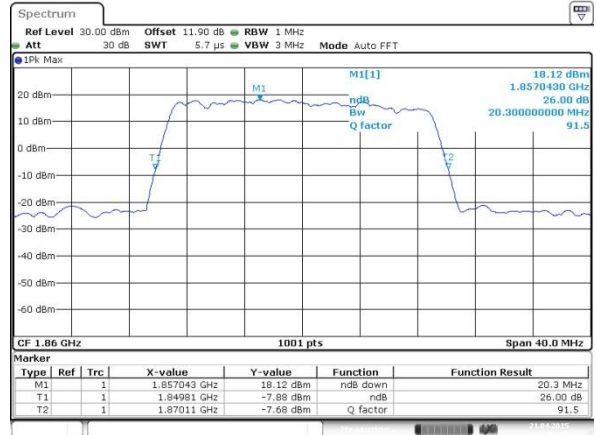
LTE Band 25

Lowest Channel / 20MHz / QPSK



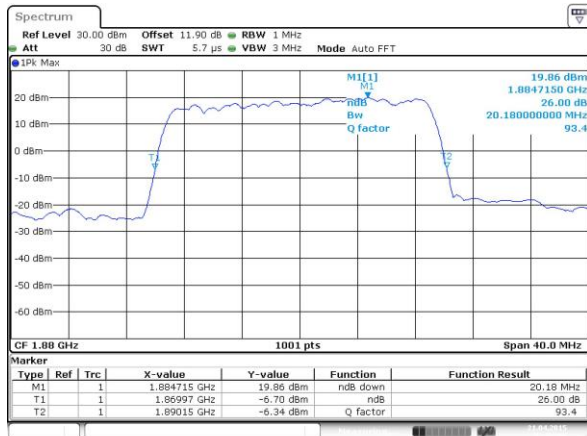
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Lowest Channel / 20MHz / 16QAM



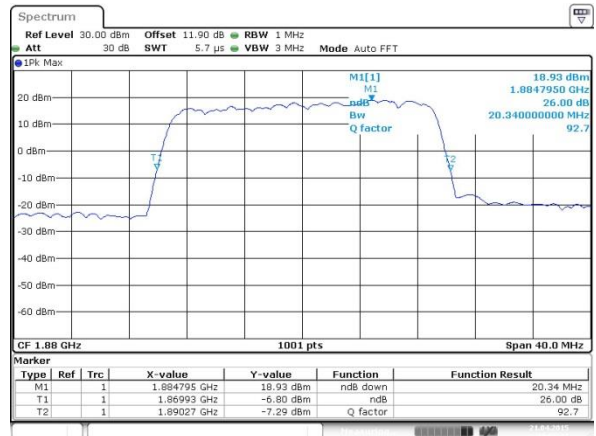
Date: 21 APR 2015 22:53:46

Middle Channel / 20MHz / QPSK



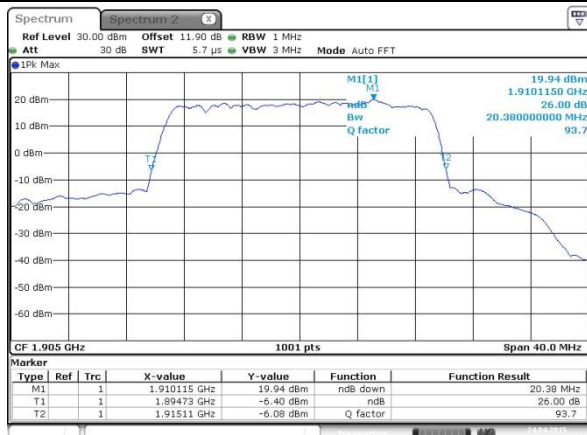
Date: 21 APR 2015 23:02:08

Middle Channel / 20MHz / 16QAM



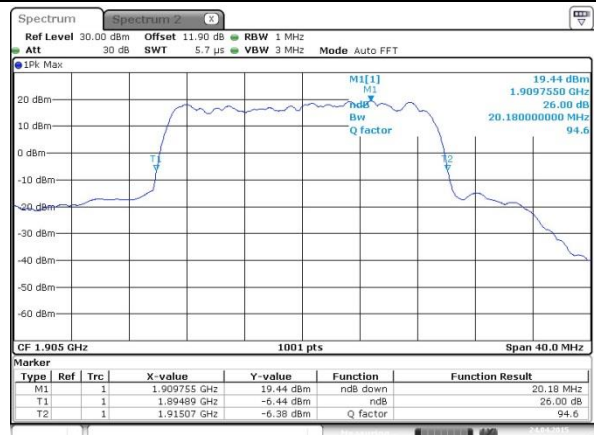
Date: 21 APR 2015 23:02:21

Highest Channel / 20MHz / QPSK



Date: 24 APR 2015 23:30:44

Highest Channel / 20MHz / 16QAM



Date: 24 APR 2015 23:30:31



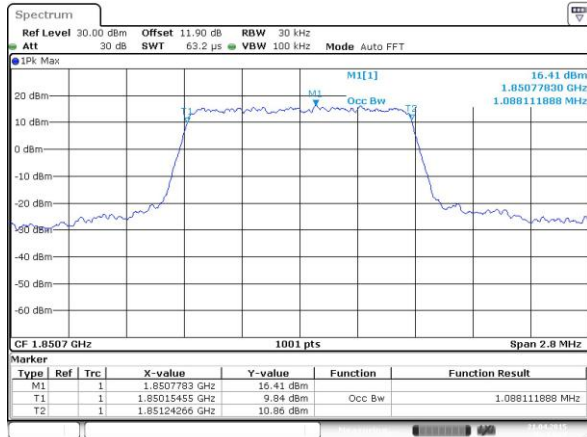
Occupied Bandwidth

Mode	LTE Band 25 : 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	4.49	4.49	9.05	9.01	13.46	13.43	18.18	18.14
Middle CH	1.09	1.09	2.73	2.73	4.49	4.49	9.09	9.01	13.40	13.49	18.34	18.38
Highest CH	1.09	1.09	2.73	2.73	4.49	4.49	9.05	9.01	13.46	13.46	18.30	18.50

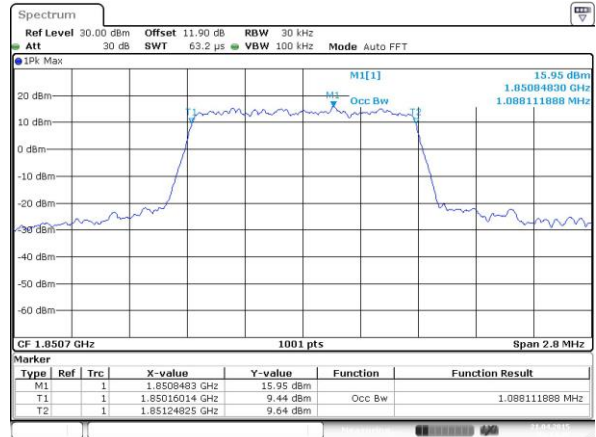


LTE Band 25

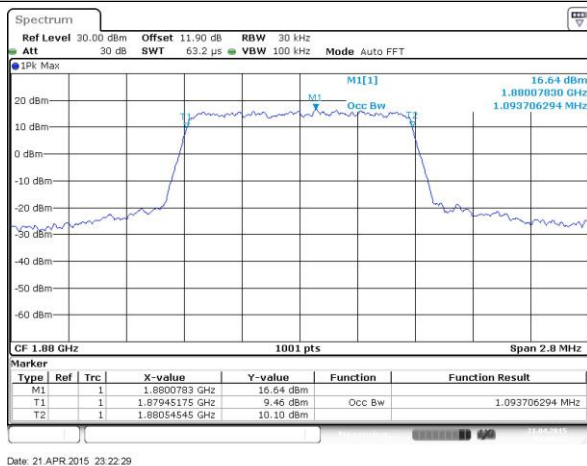
Lowest Channel / 1.4MHz / QPSK



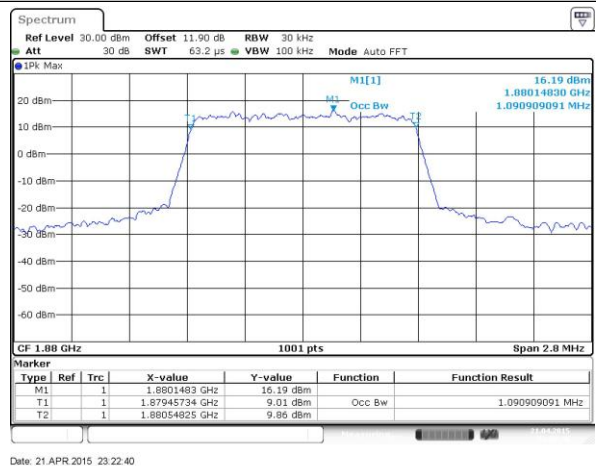
Lowest Channel / 1.4MHz / 16QAM



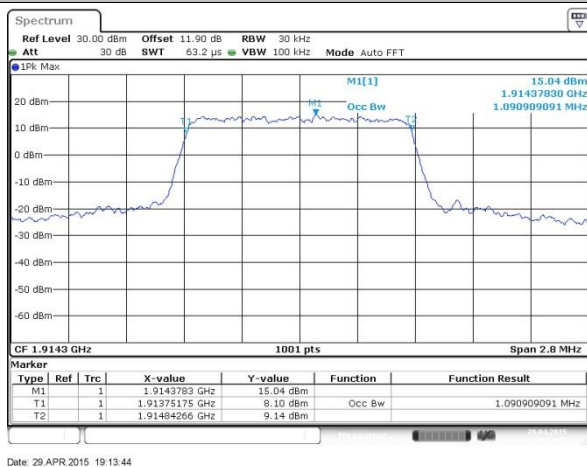
Middle Channel / 1.4MHz / QPSK



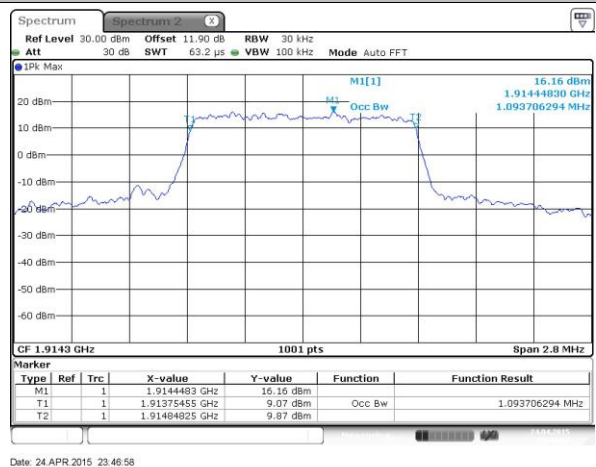
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



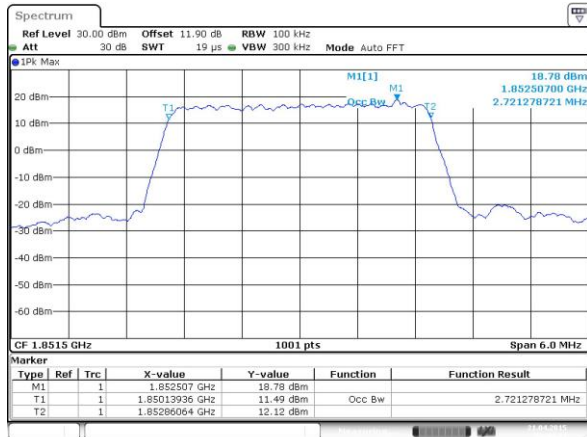
Highest Channel / 1.4MHz / 16QAM



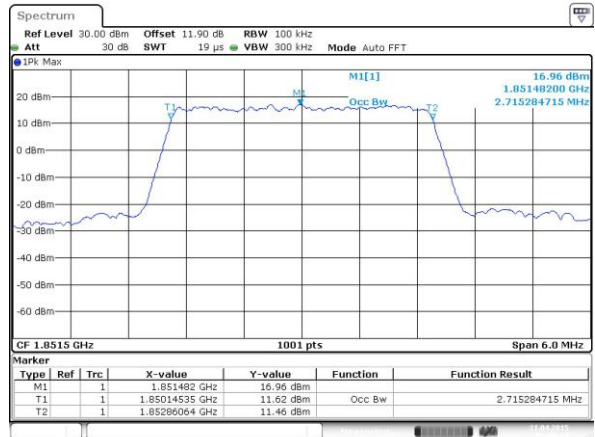


LTE Band 25

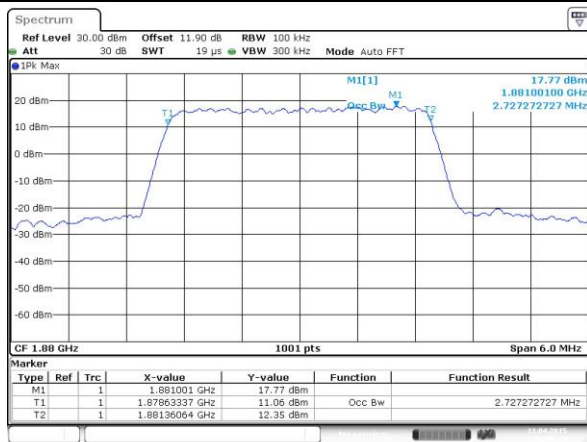
Lowest Channel / 3MHz / QPSK



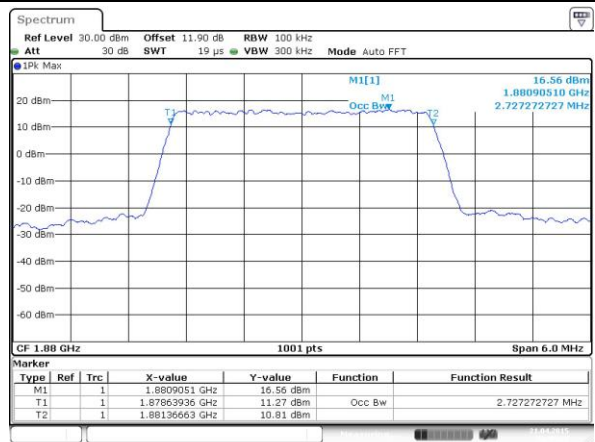
Lowest Channel / 3MHz / 16QAM



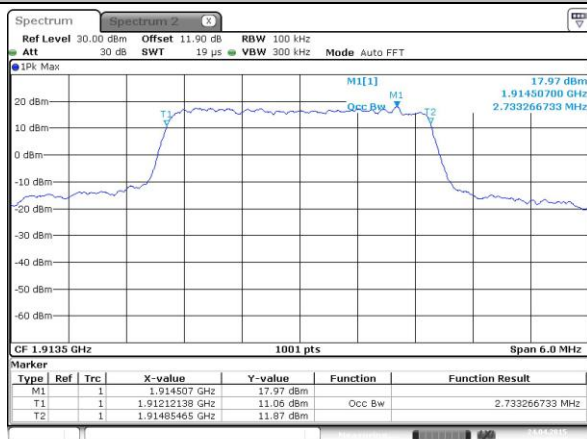
Middle Channel / 3MHz / QPSK



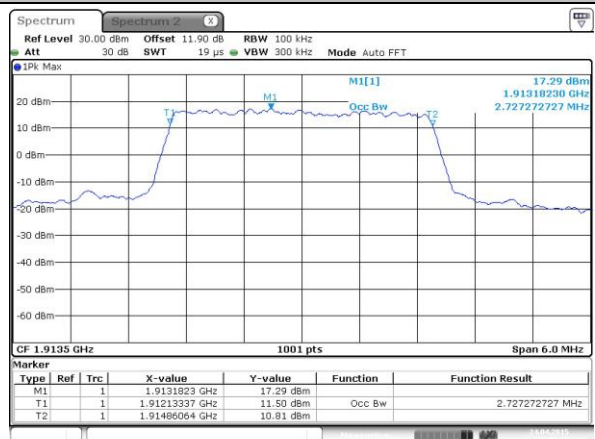
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



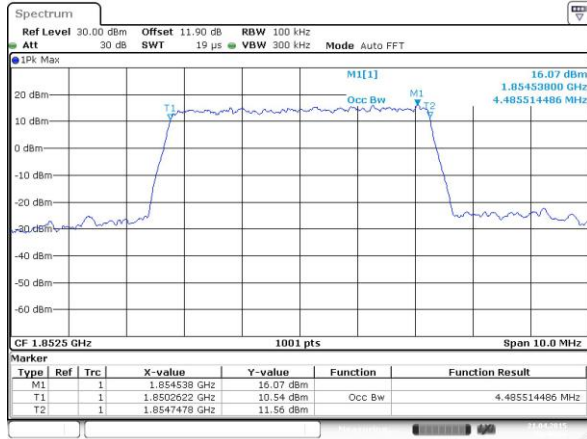
Highest Channel / 3MHz / 16QAM



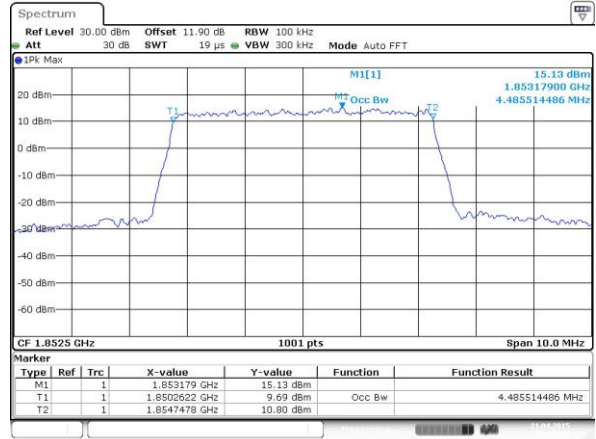


LTE Band 25

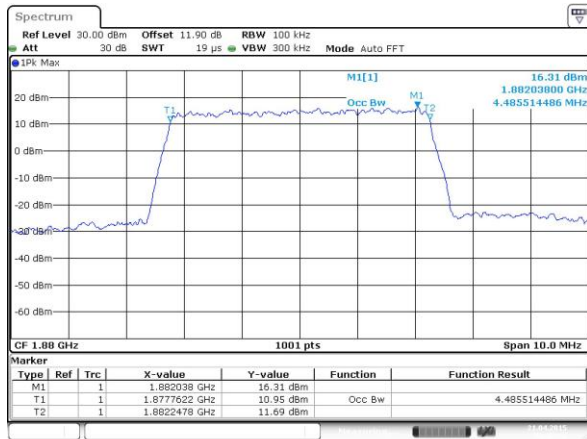
Lowest Channel / 5MHz / QPSK



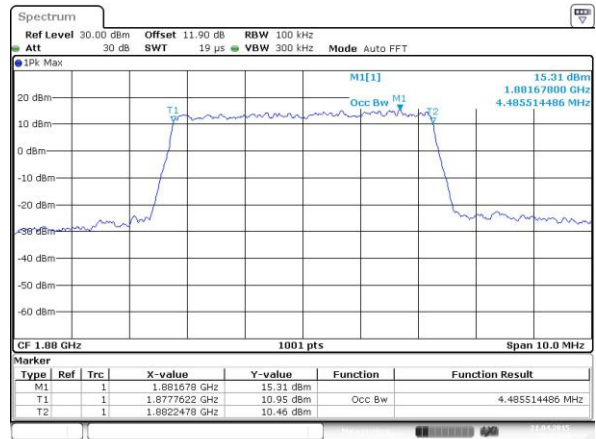
Lowest Channel / 5MHz / 16QAM



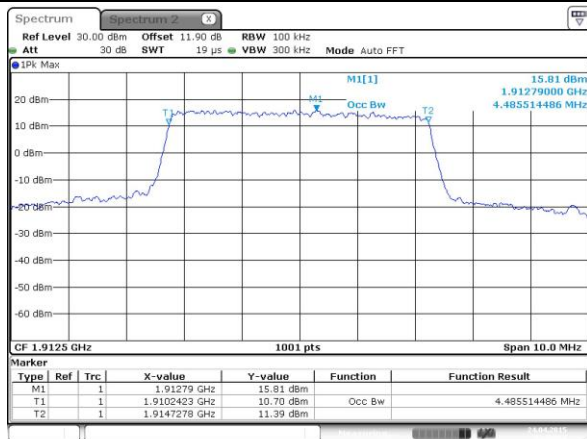
Middle Channel / 5MHz / QPSK



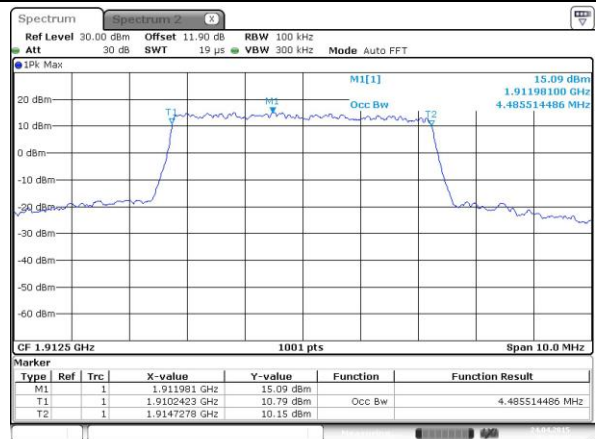
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



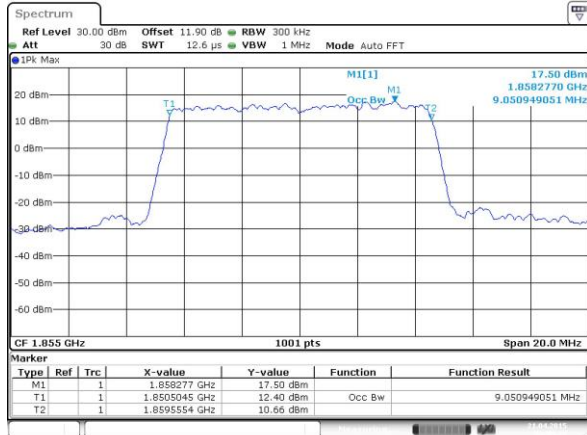
Highest Channel / 5MHz / 16QAM





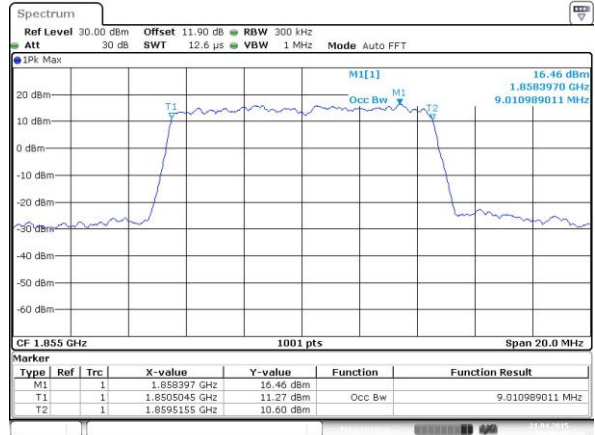
LTE Band 25

Lowest Channel / 10MHz / QPSK



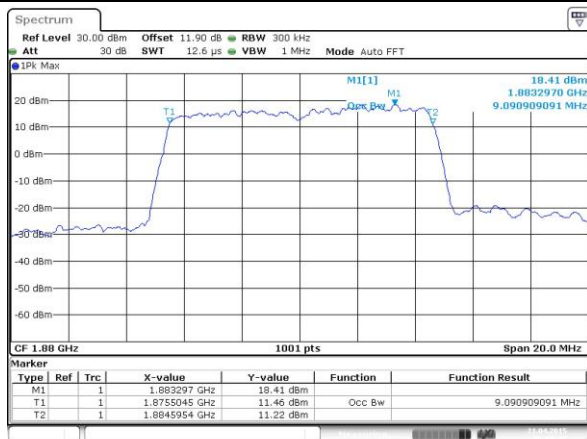
Date: 21 APR 2015 23:49:21

Lowest Channel / 10MHz / 16QAM



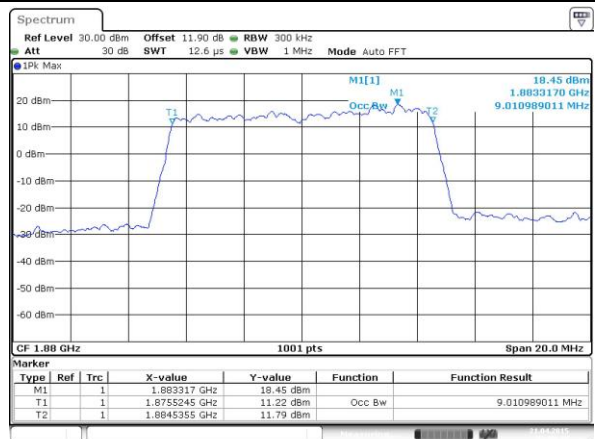
Date: 21 APR 2015 23:49:32

Middle Channel / 10MHz / QPSK



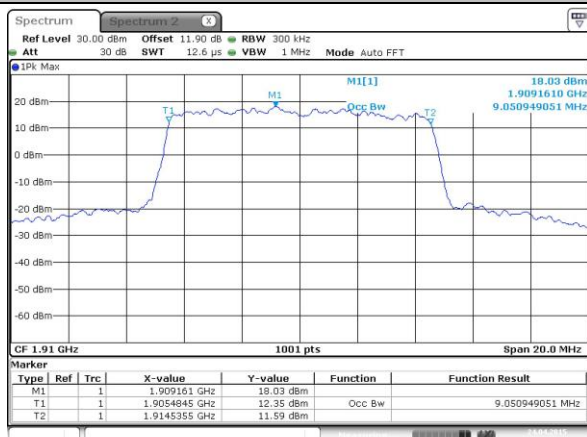
Date: 21 APR 2015 23:50:08

Middle Channel / 10MHz / 16QAM



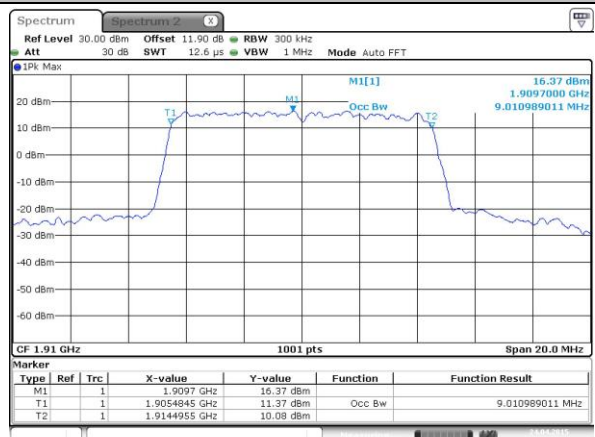
Date: 21 APR 2015 23:50:19

Highest Channel / 10MHz / QPSK



Date: 24 APR 2015 23:12:48

Highest Channel / 10MHz / 16QAM



Date: 24 APR 2015 23:12:59