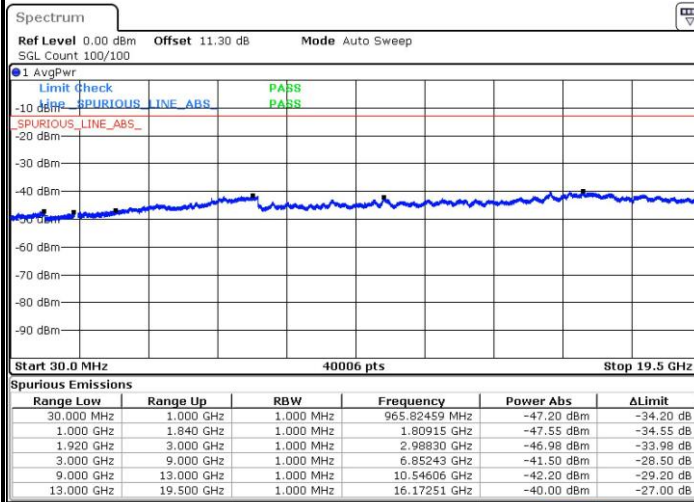




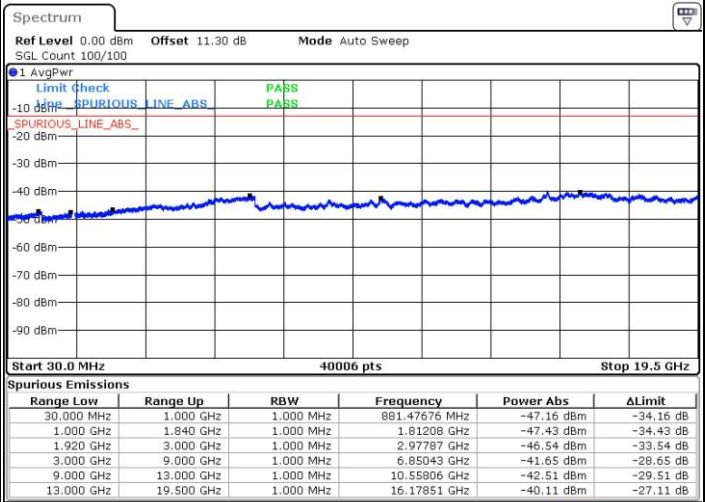
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 30 MAR 2018 10:19:55

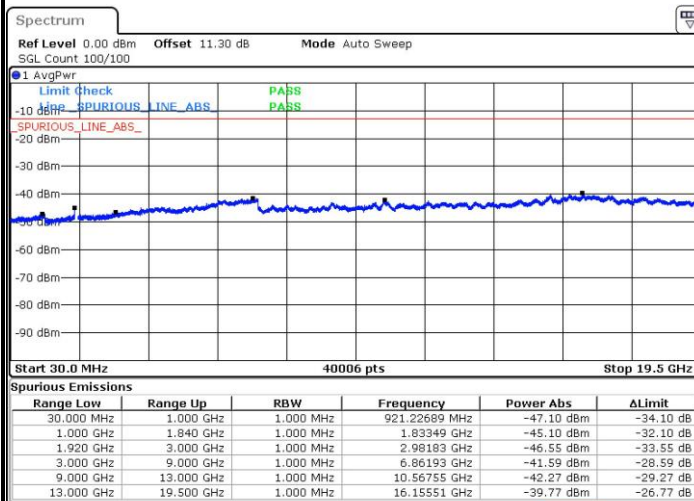
Highest Channel / 16QAM



Date: 30 MAR 2018 10:21:25

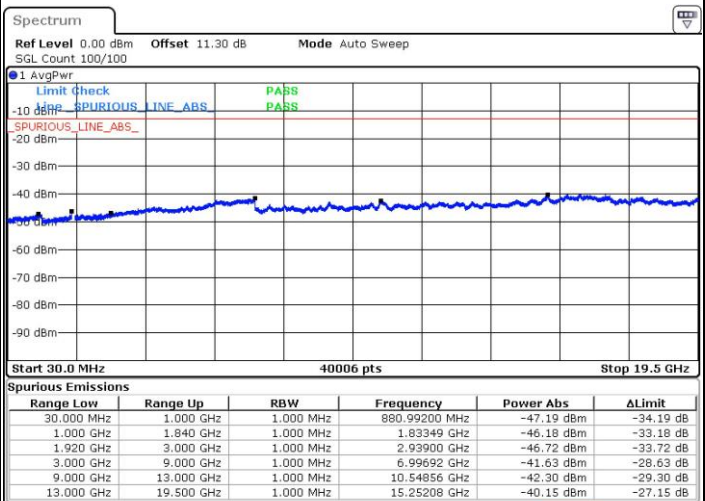
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 30 MAR 2018 10:30:16

Lowest Channel / 16QAM

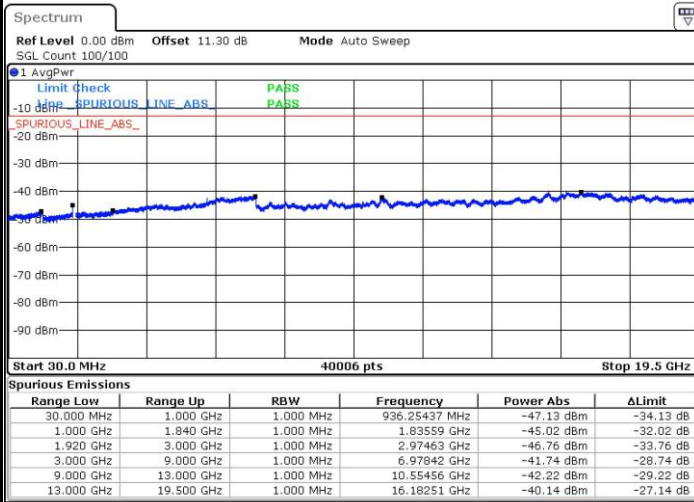


Date: 30 MAR 2018 10:31:47



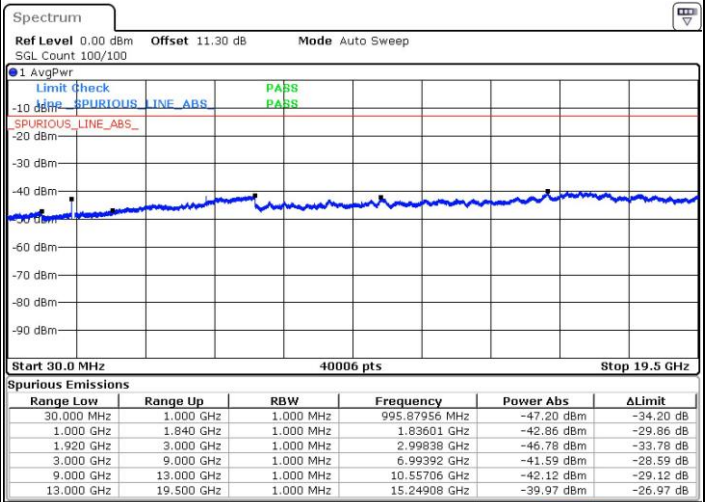
LTE Band 2 / 20MHz

Middle Channel / QPSK



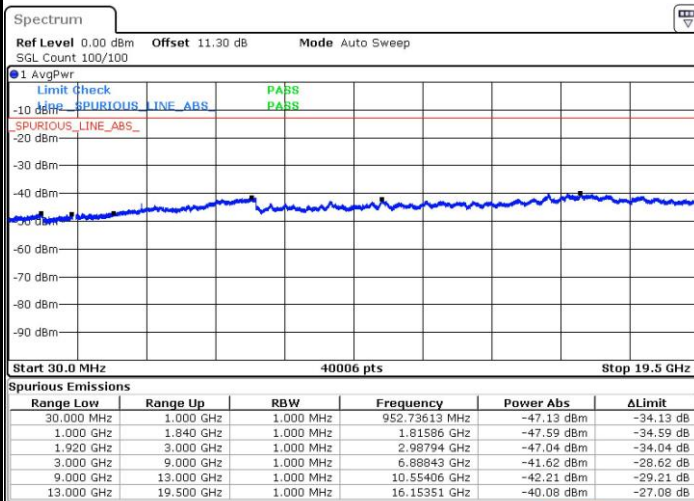
Date: 30 MAR 2018 10:53:27

Middle Channel / 16QAM



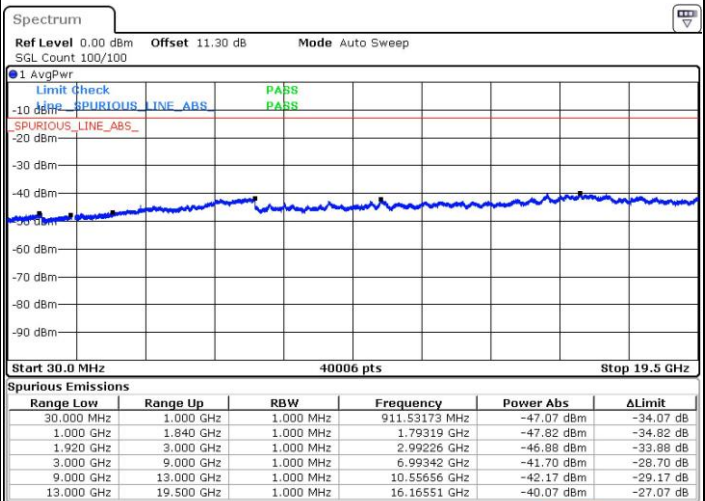
Date: 30 MAR 2018 10:54:52

Highest Channel / QPSK



Date: 30 MAR 2018 11:02:56

Highest Channel / 16QAM



Date: 30 MAR 2018 11:04:23

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0071	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

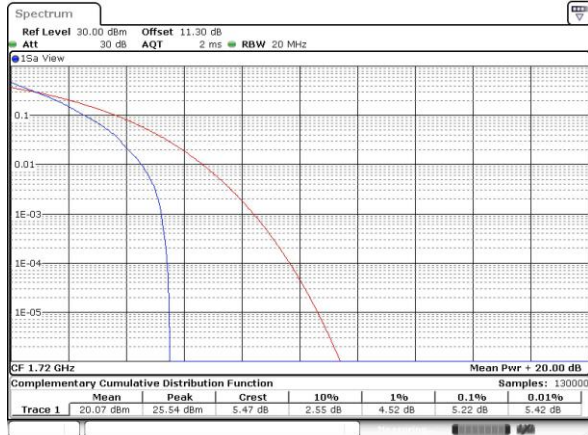
1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



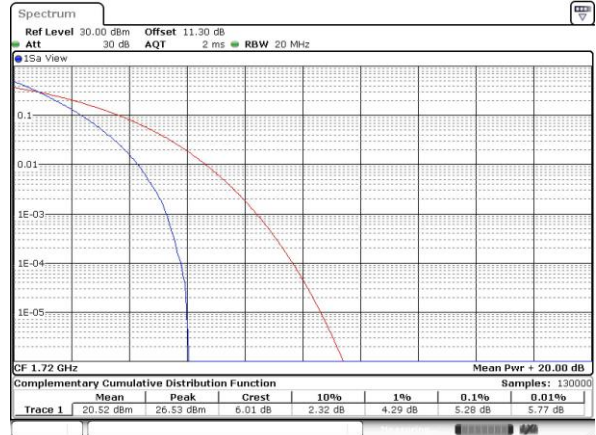
LTE Band 4

Peak-to-Average Ratio

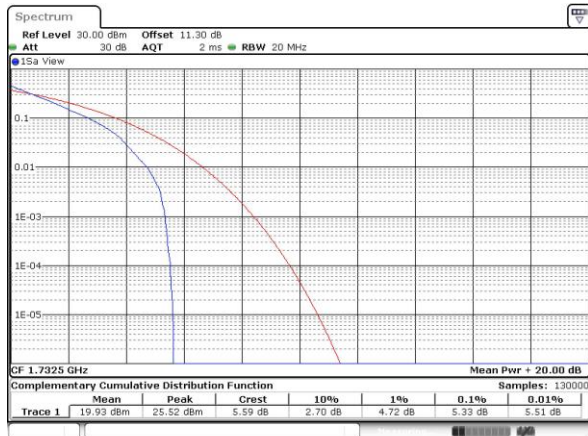
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.22	5.28	5.83	6.17	PASS
Middle CH	5.33	5.25	6.35	6.2	
Highest CH	5.22	5.28	5.86	6.12	

LTE Band 4 / 20MHz / QPSK
Lowest Channel / 1RB


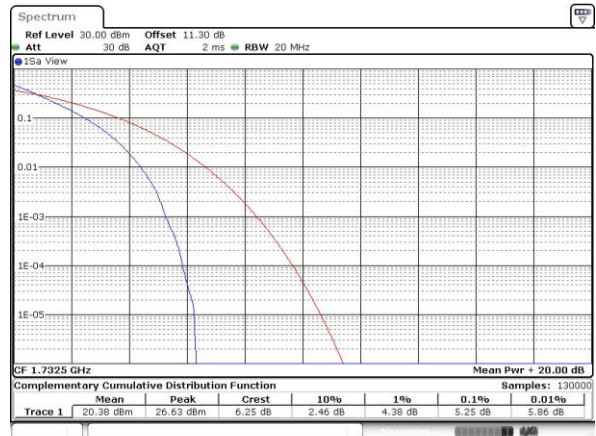
Date: 30 MAR 2018 20:44:59

Lowest Channel / Full RB


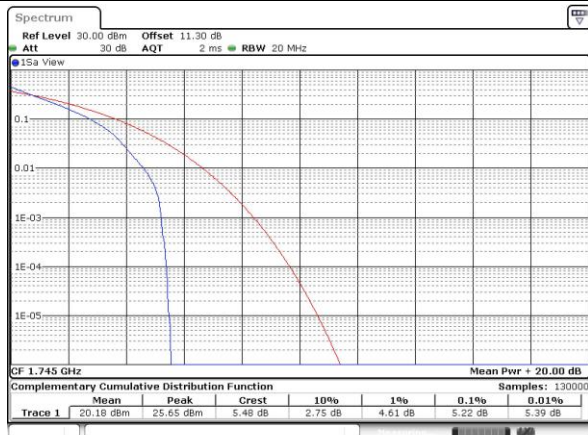
Date: 30 MAR 2018 20:45:08

Middle Channel / 1RB


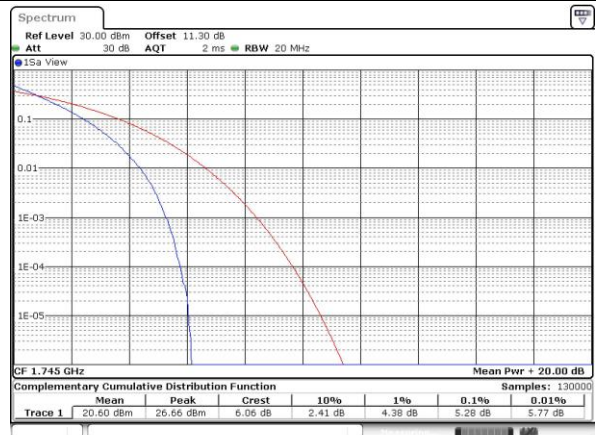
Date: 30 MAR 2018 20:45:19

Middle Channel / Full RB


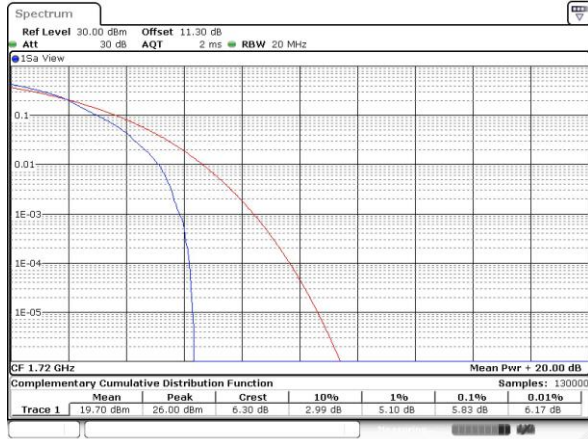
Date: 30 MAR 2018 20:45:29

Highest Channel / 1RB


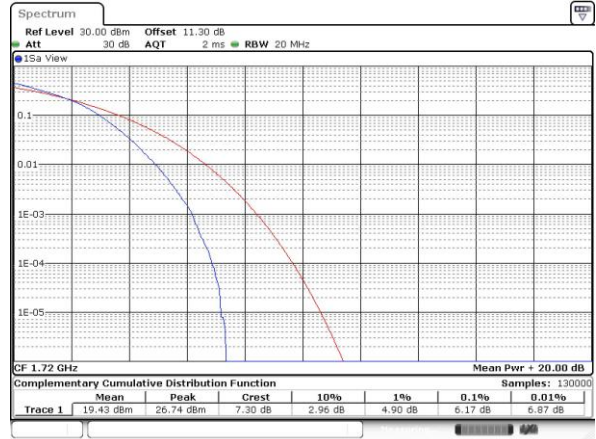
Date: 30 MAR 2018 20:45:41

Highest Channel / Full RB


Date: 30 MAR 2018 20:45:50

LTE Band 4 / 20MHz / 16QAM
Lowest Channel / 1RB


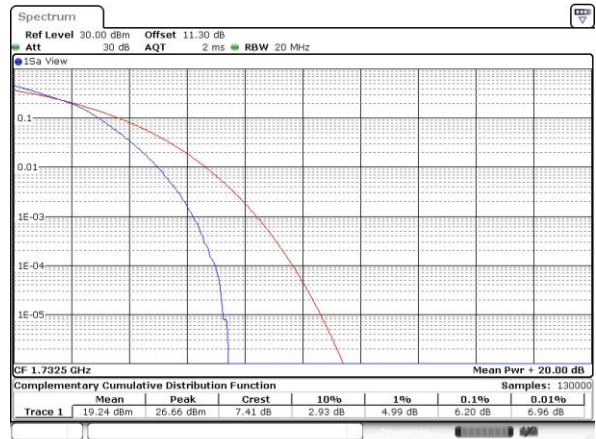
Date: 30 MAR 2018 20:43:59

Lowest Channel / Full RB


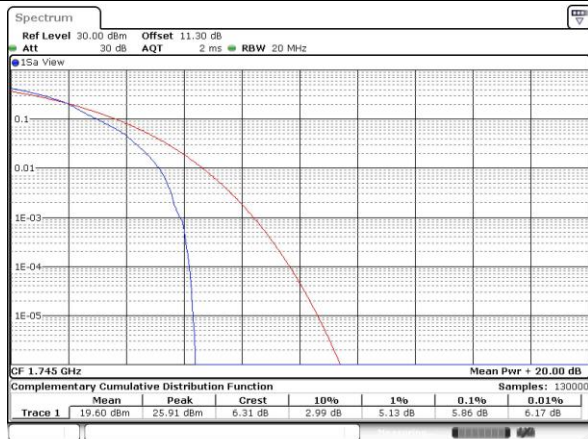
Date: 30 MAR 2018 20:44:10

Middle Channel / 1RB


Date: 30 MAR 2018 20:44:20

Middle Channel / Full RB


Date: 30 MAR 2018 20:44:30

Highest Channel / 1RB


Date: 30 MAR 2018 20:44:39

Highest Channel / Full RB


Date: 30 MAR 2018 20:44:49



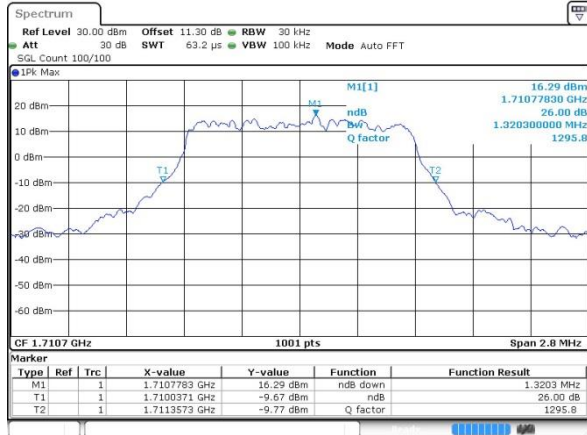
26dB Bandwidth

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	1.32	1.37	3.05	3.01	5.00	4.89	10.03	9.91	15.41	14.93	20.50	20.14
Middle CH	1.32	1.31	3.03	3.03	4.94	4.96	10.13	9.85	15.05	14.84	20.94	20.18
Highest CH	1.32	1.33	3.12	3.05	5.01	4.88	9.87	9.87	15.14	14.45	20.18	20.14



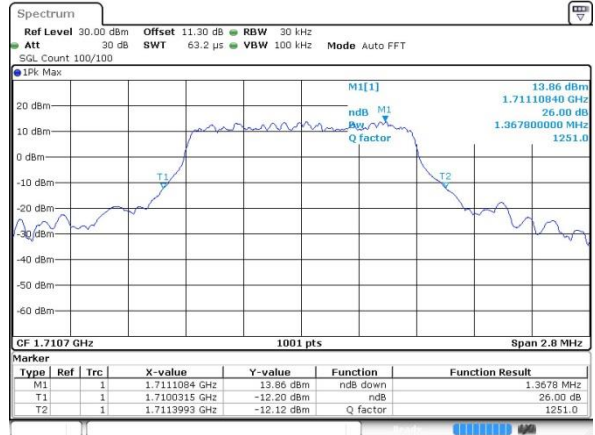
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



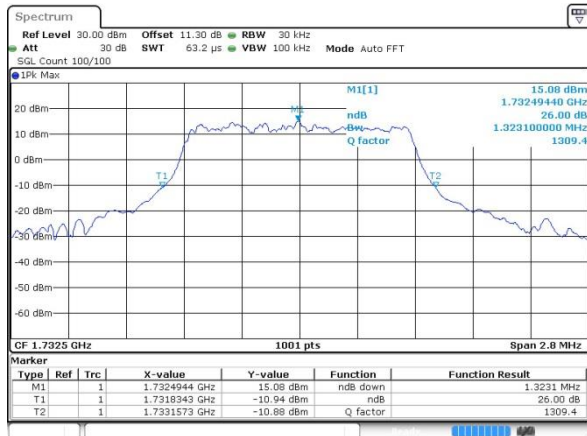
Date: 30 MAR 2018 20:26:10

Lowest Channel / 1.4MHz / 16QAM



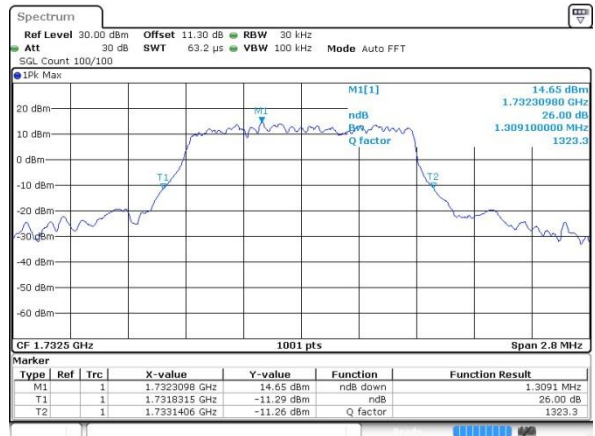
Date: 30 MAR 2018 20:26:21

Middle Channel / 1.4MHz / QPSK



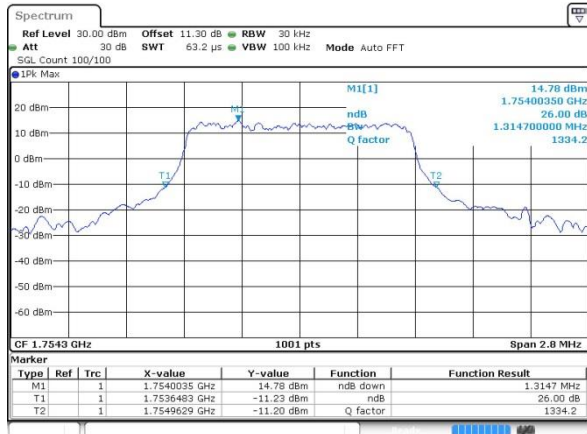
Date: 30 MAR 2018 20:33:12

Middle Channel / 1.4MHz / 16QAM



Date: 30 MAR 2018 20:33:22

Highest Channel / 1.4MHz / QPSK



Date: 30 MAR 2018 20:35:42

Highest Channel / 1.4MHz / 16QAM

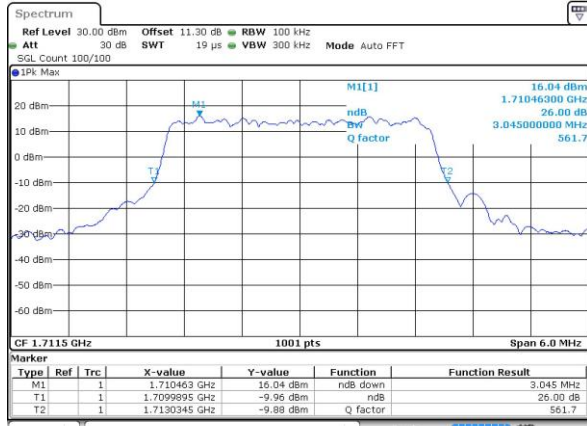


Date: 30 MAR 2018 20:35:52



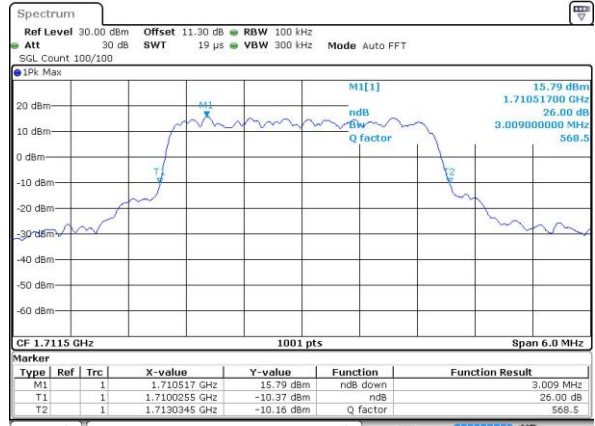
LTE Band 4

Lowest Channel / 3MHz / QPSK



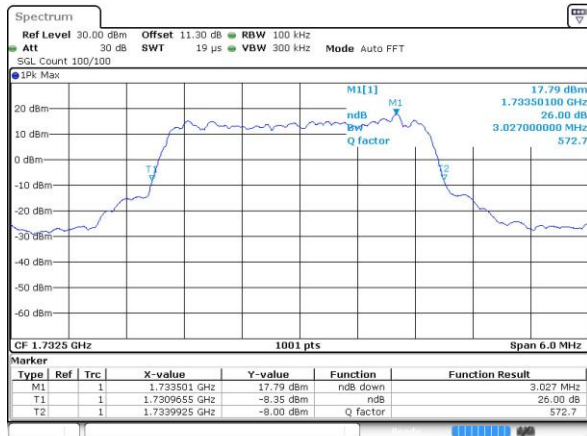
Date: 30 MAR 2018 18:57:59

Lowest Channel / 3MHz / 16QAM



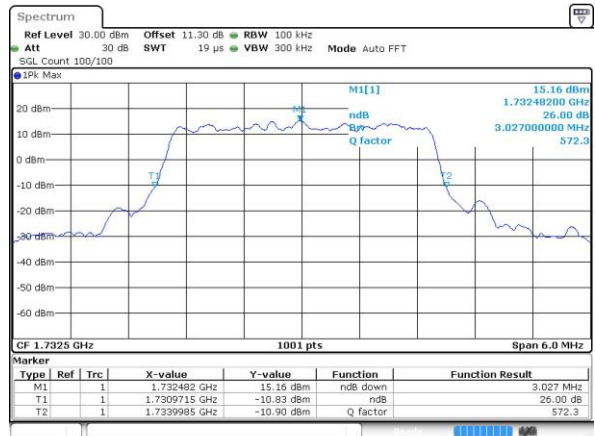
Date: 30 MAR 2018 18:58:10

Middle Channel / 3MHz / QPSK



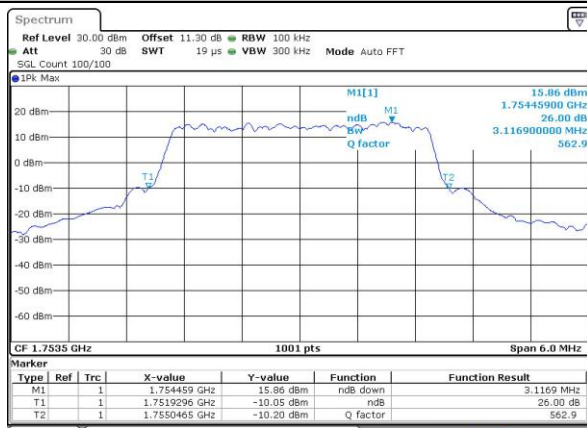
Date: 30 MAR 2018 19:05:03

Middle Channel / 3MHz / 16QAM



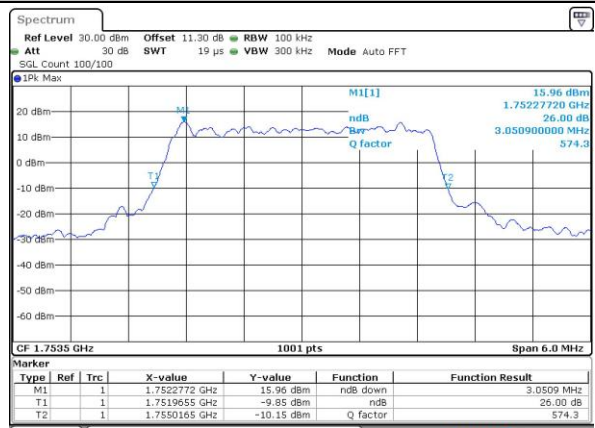
Date: 30 MAR 2018 19:05:13

Highest Channel / 3MHz / QPSK



Date: 30 MAR 2018 19:07:34

Highest Channel / 3MHz / 16QAM

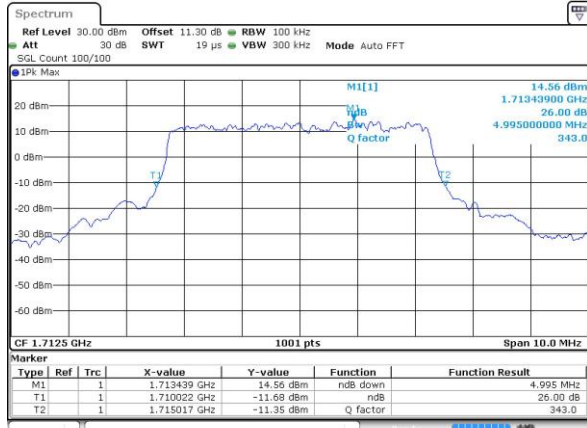


Date: 30 MAR 2018 19:07:44



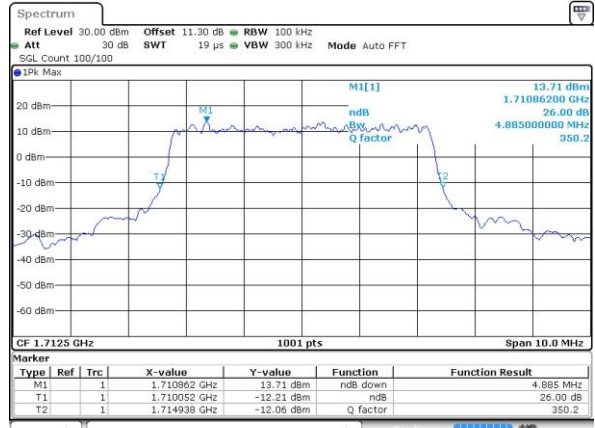
LTE Band 4

Lowest Channel / 5MHz / QPSK



Date: 30 MAR 2018 19:14:35

Lowest Channel / 5MHz / 16QAM



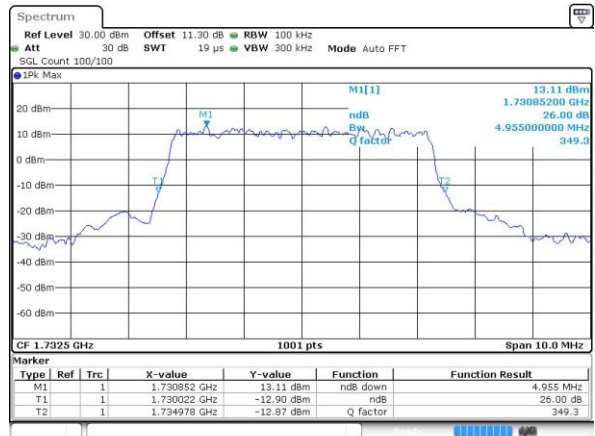
Date: 30 MAR 2018 19:14:46

Middle Channel / 5MHz / QPSK



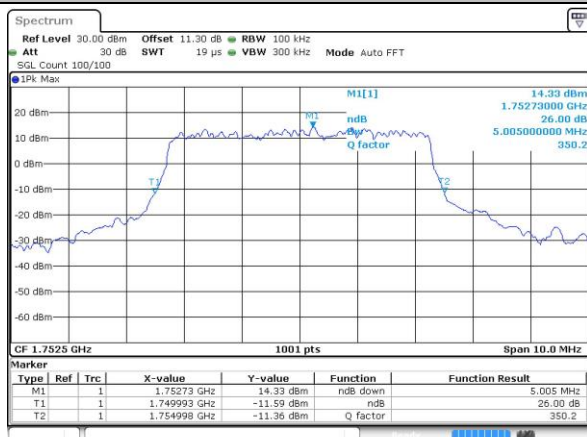
Date: 30 MAR 2018 19:21:39

Middle Channel / 5MHz / 16QAM



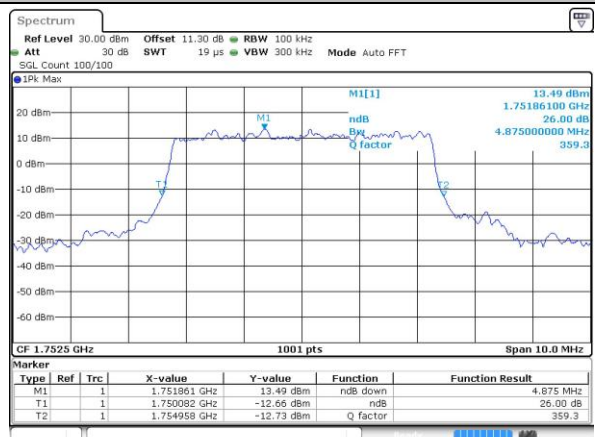
Date: 30 MAR 2018 19:21:49

Highest Channel / 5MHz / QPSK



Date: 30 MAR 2018 19:24:09

Highest Channel / 5MHz / 16QAM

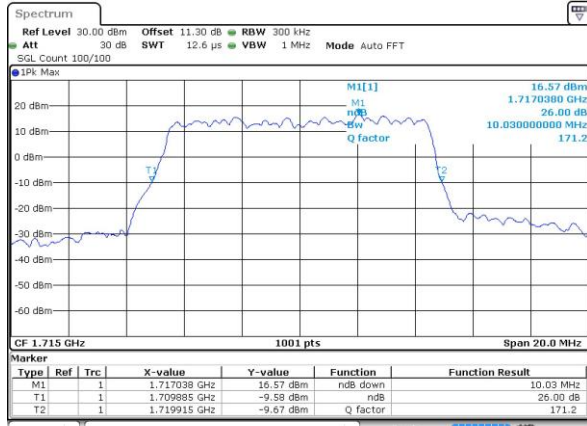


Date: 30 MAR 2018 19:24:19



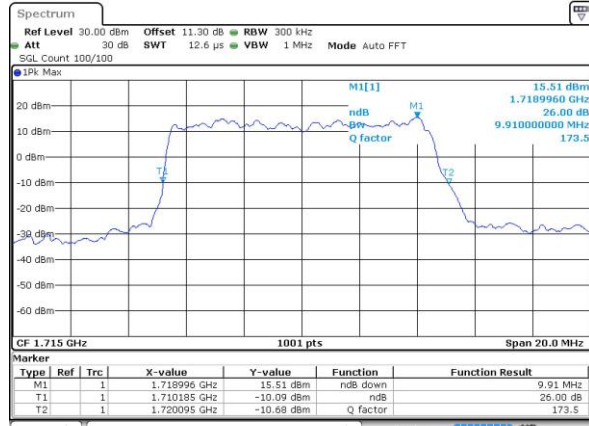
LTE Band 4

Lowest Channel / 10MHz / QPSK



Date: 30 MAR 2018 19:31:11

Lowest Channel / 10MHz / 16QAM



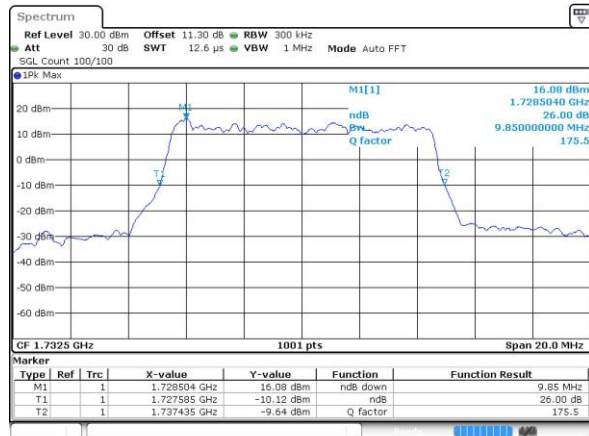
Date: 30 MAR 2018 19:31:21

Middle Channel / 10MHz / QPSK



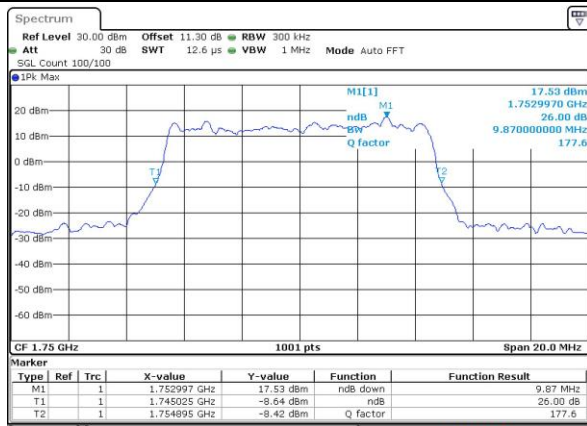
Date: 30 MAR 2018 19:38:12

Middle Channel / 10MHz / 16QAM



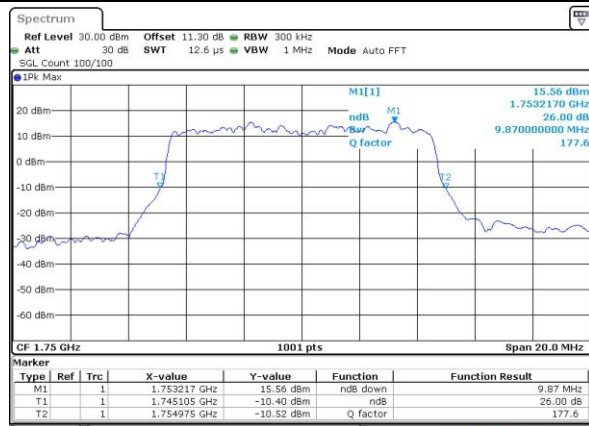
Date: 30 MAR 2018 19:38:22

Highest Channel / 10MHz / QPSK



Date: 30 MAR 2018 19:40:42

Highest Channel / 10MHz / 16QAM

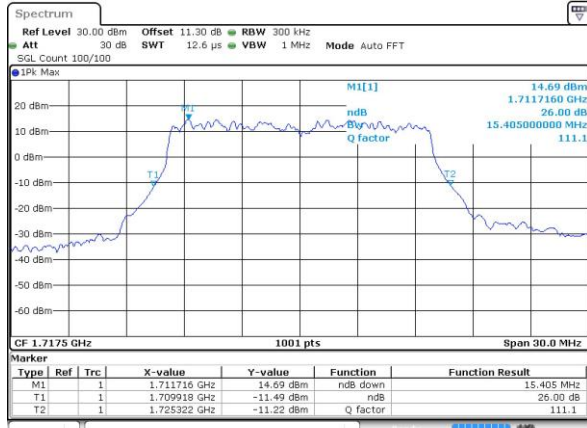


Date: 30 MAR 2018 19:40:52

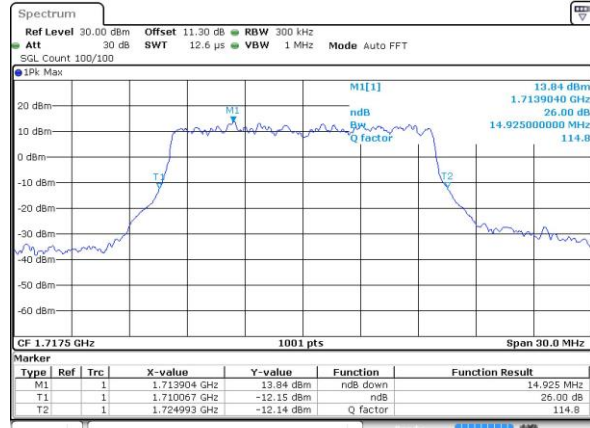


LTE Band 4

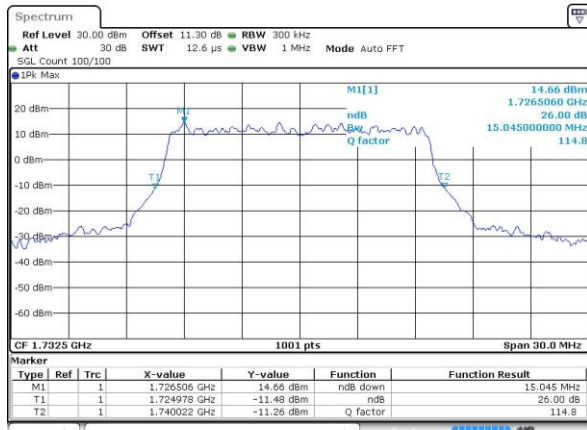
Lowest Channel / 15MHz / QPSK



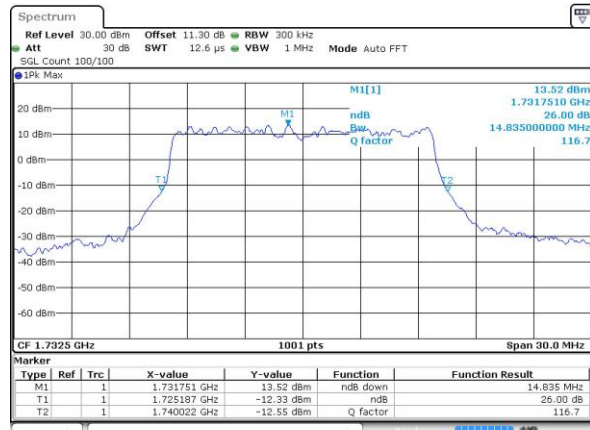
Lowest Channel / 15MHz / 16QAM



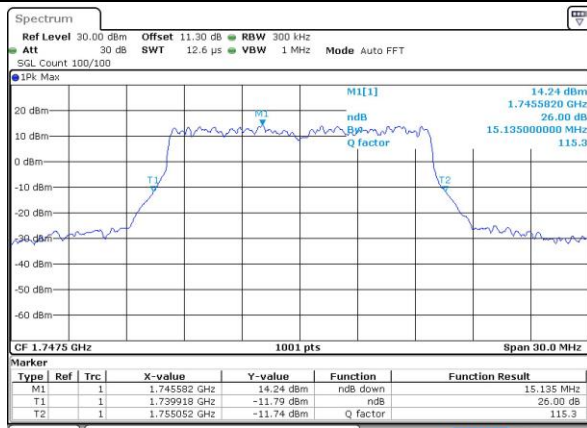
Middle Channel / 15MHz / QPSK



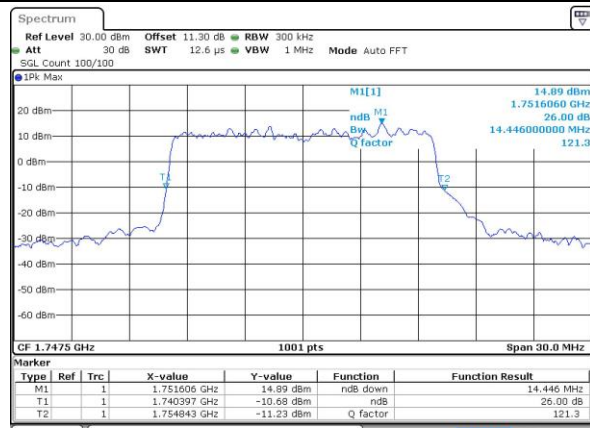
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



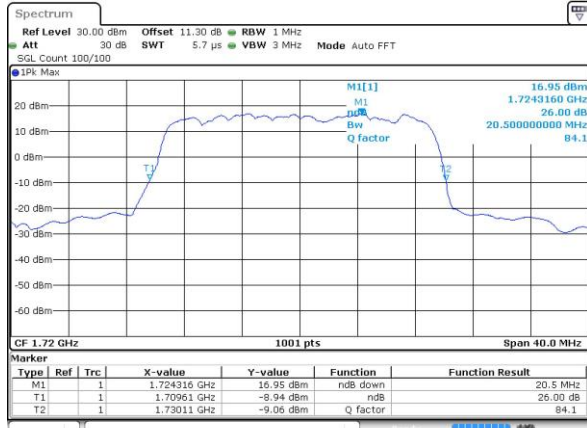
Highest Channel / 15MHz / 16QAM



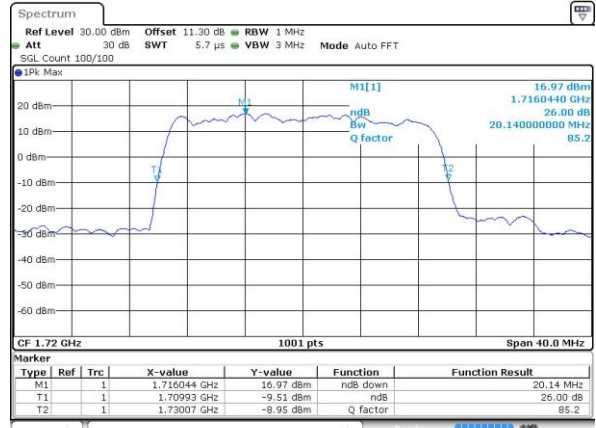


LTE Band 4

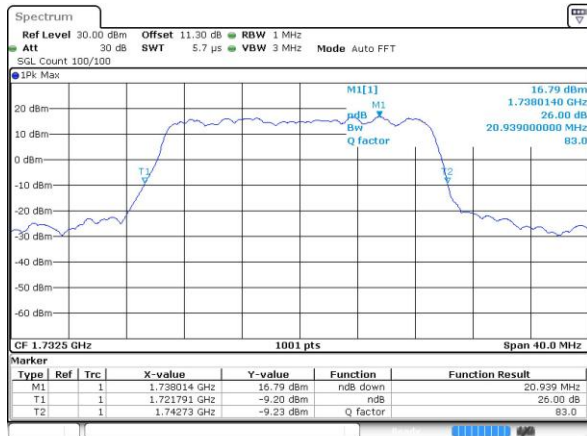
Lowest Channel / 20MHz / QPSK



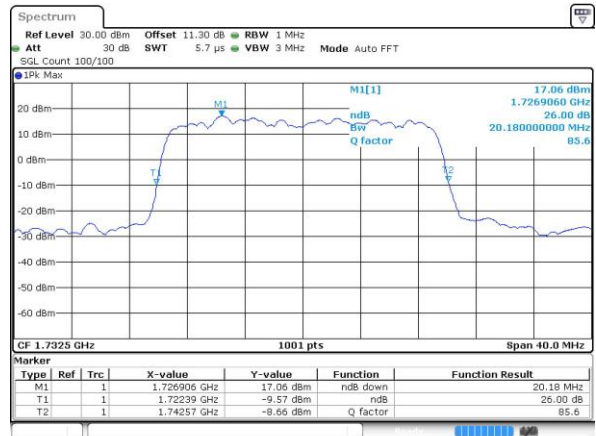
Lowest Channel / 20MHz / 16QAM



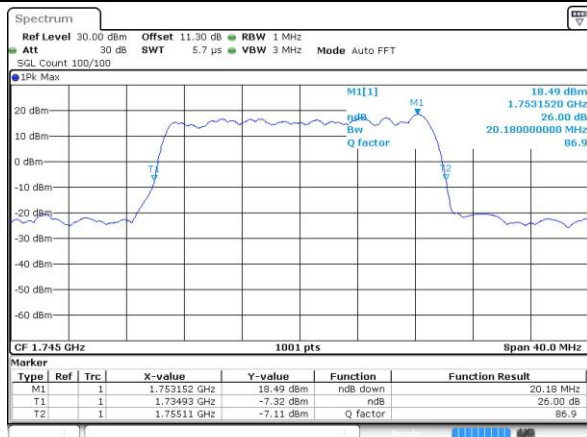
Middle Channel / 20MHz / QPSK



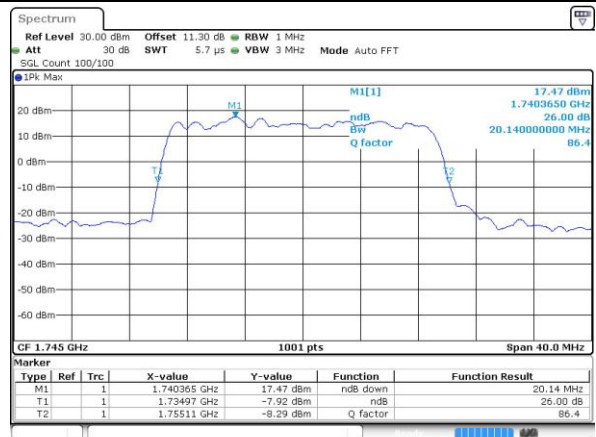
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM





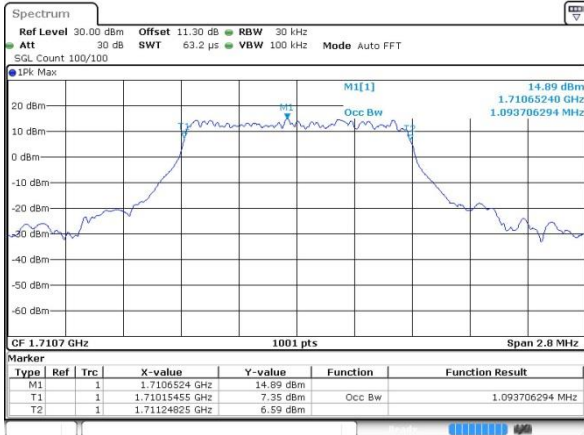
Occupied Bandwidth

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	1.09	1.09	2.72	2.7	4.49	4.49	9.09	8.99	13.52	13.49	18.18	18.26
Middle CH	1.11	1.09	2.72	2.71	4.5	4.51	9.11	9.05	13.46	13.55	18.46	18.54
Highest CH	1.1	1.09	2.72	2.72	4.49	4.46	9.09	9.05	13.49	13.43	18.38	18.46

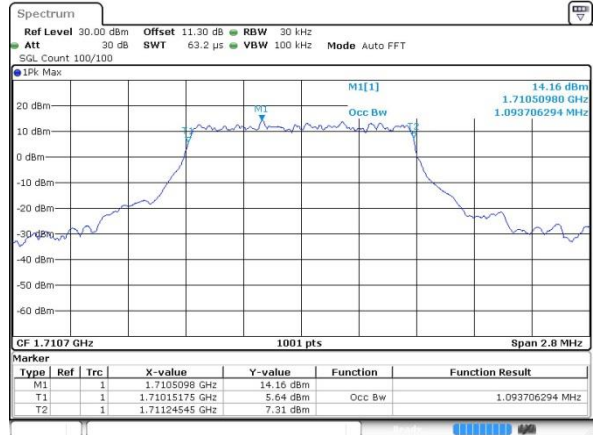


LTE Band 4

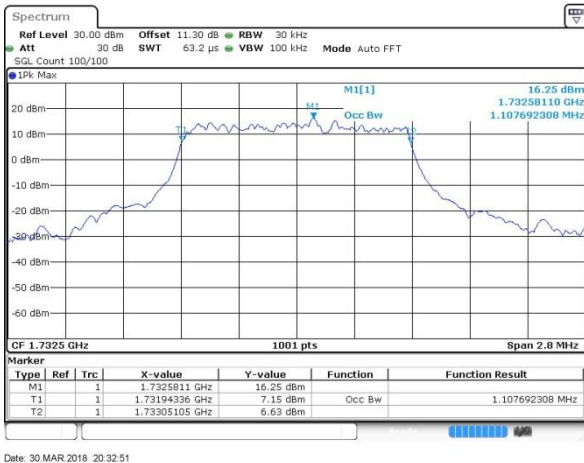
Lowest Channel / 1.4MHz / QPSK



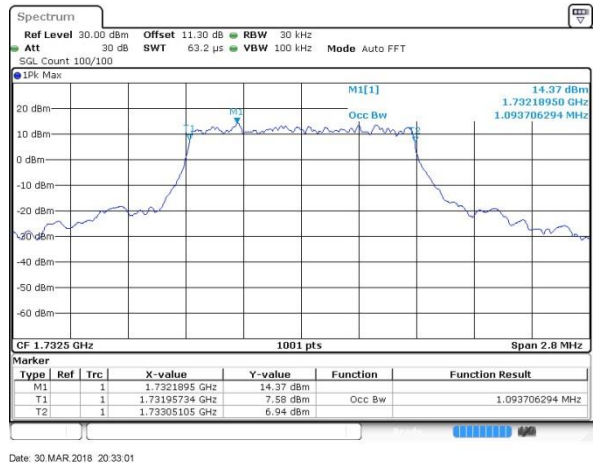
Lowest Channel / 1.4MHz / 16QAM



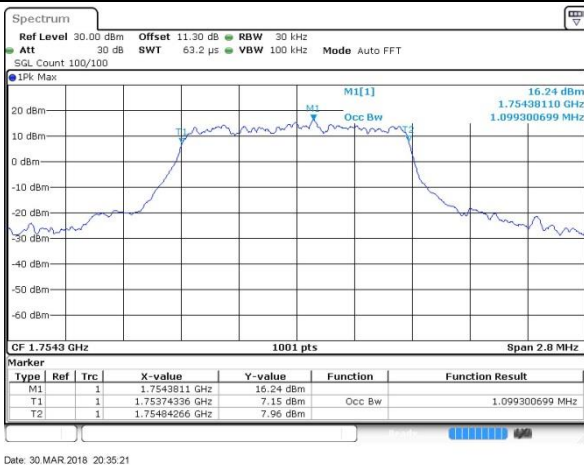
Middle Channel / 1.4MHz / QPSK



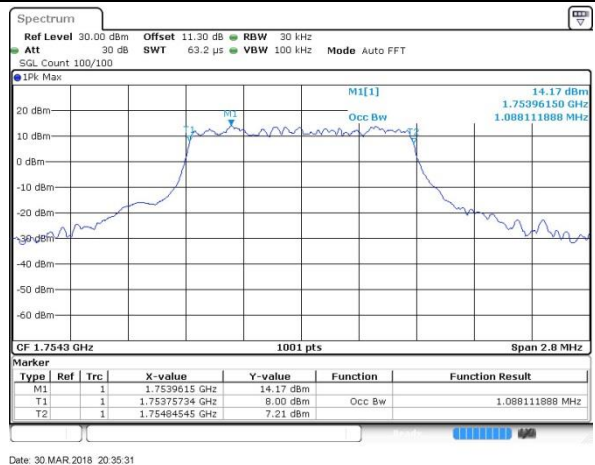
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



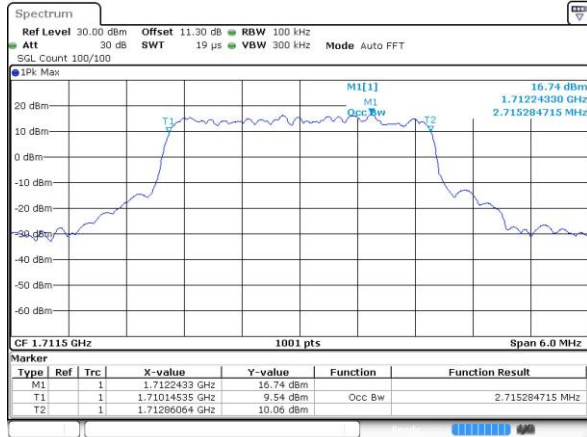
Highest Channel / 1.4MHz / 16QAM



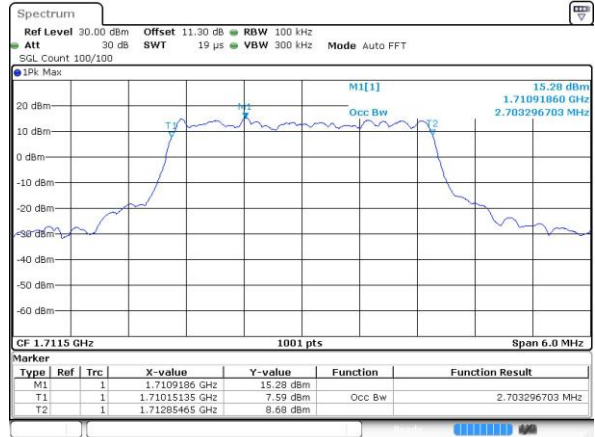


LTE Band 4

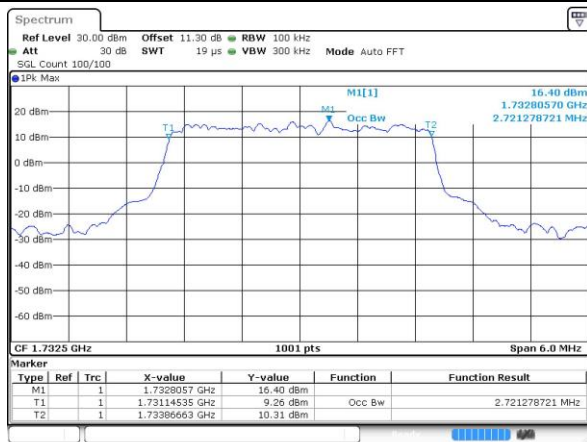
Lowest Channel / 3MHz / QPSK



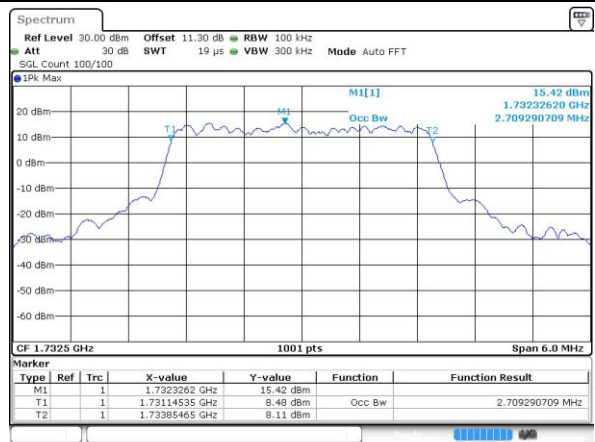
Lowest Channel / 3MHz / 16QAM



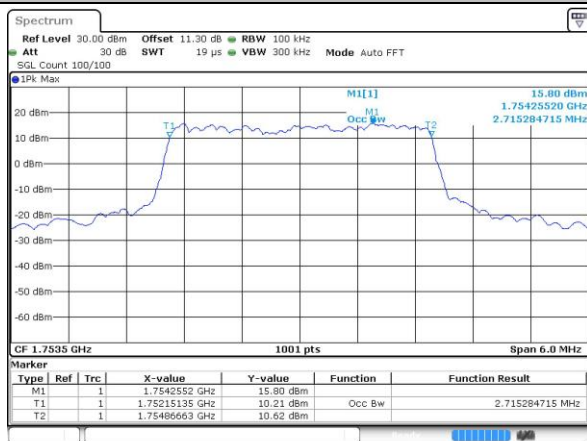
Middle Channel / 3MHz / QPSK



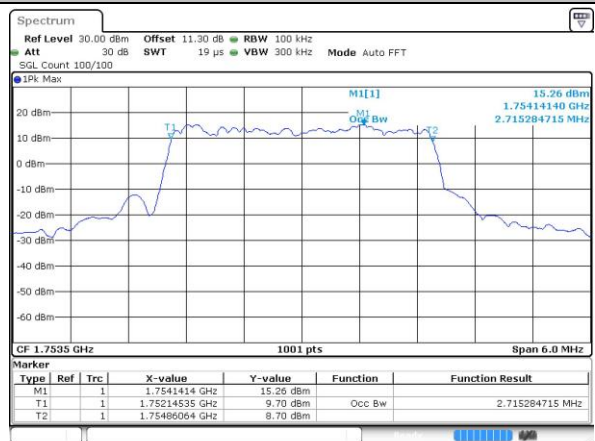
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



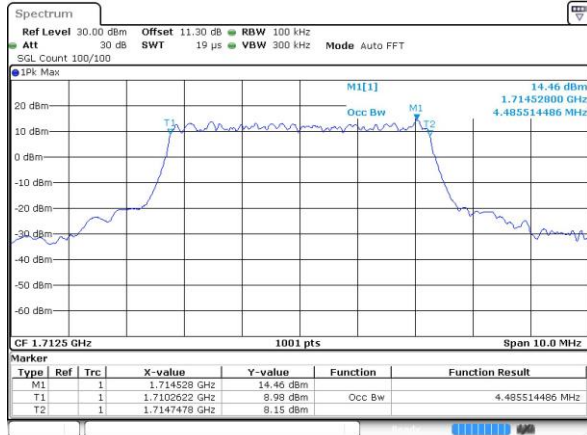
Highest Channel / 3MHz / 16QAM





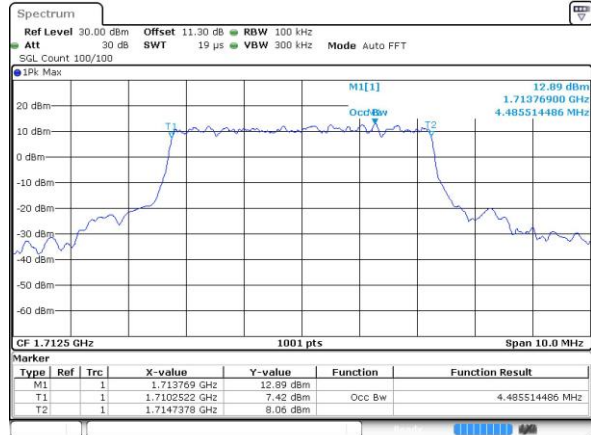
LTE Band 4

Lowest Channel / 5MHz / QPSK



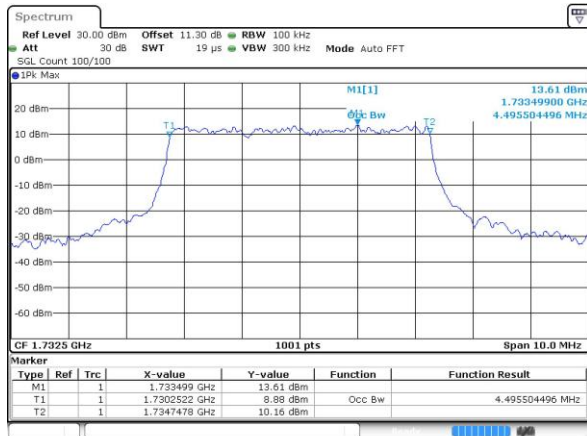
Date: 30 MAR 2018 19:14:15

Lowest Channel / 5MHz / 16QAM



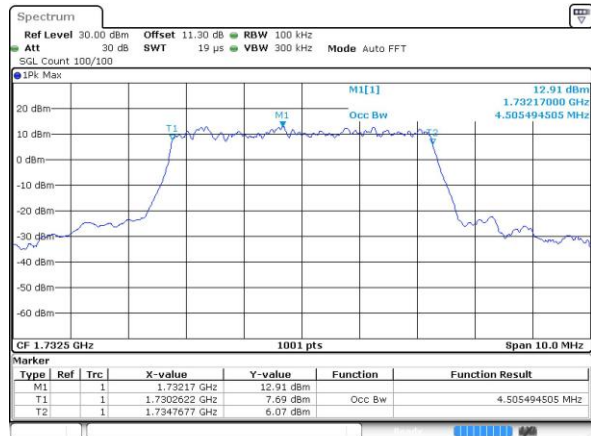
Date: 30 MAR 2018 19:14:25

Middle Channel / 5MHz / QPSK



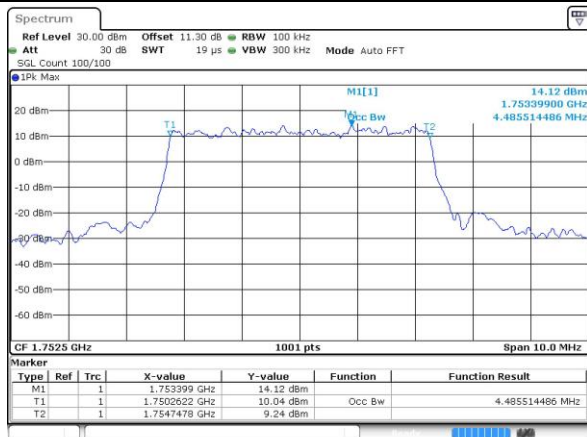
Date: 30 MAR 2018 19:21:18

Middle Channel / 5MHz / 16QAM



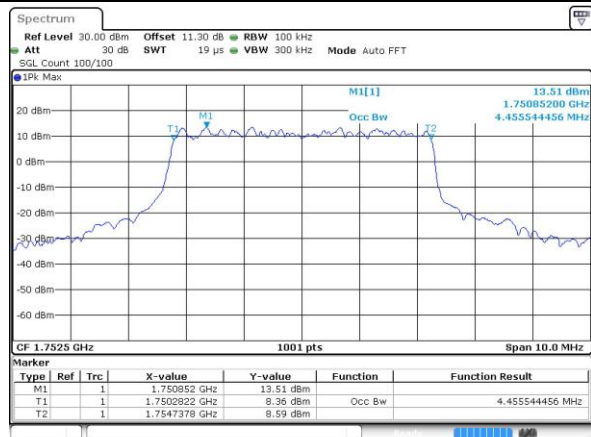
Date: 30 MAR 2018 19:21:28

Highest Channel / 5MHz / QPSK



Date: 30 MAR 2018 19:23:48

Highest Channel / 5MHz / 16QAM

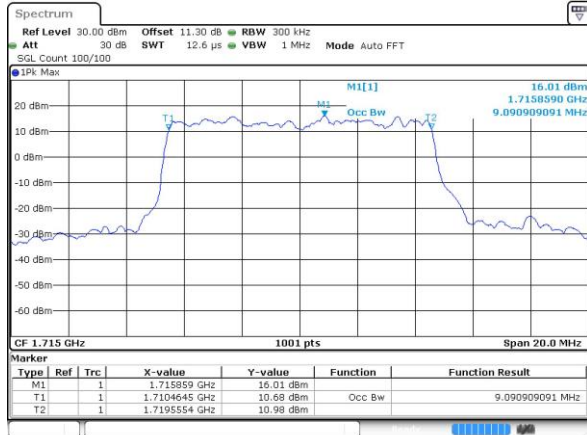


Date: 30 MAR 2018 19:23:58



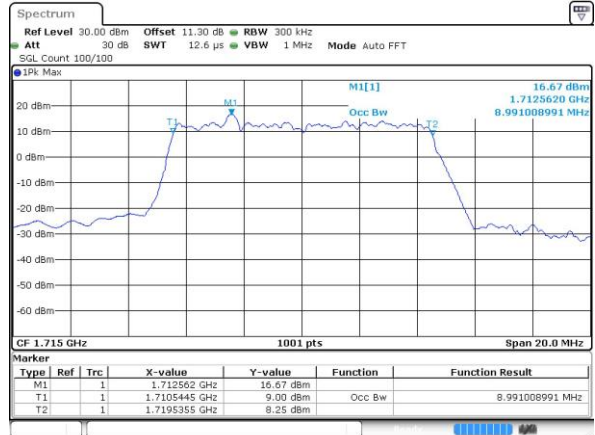
LTE Band 4

Lowest Channel / 10MHz / QPSK



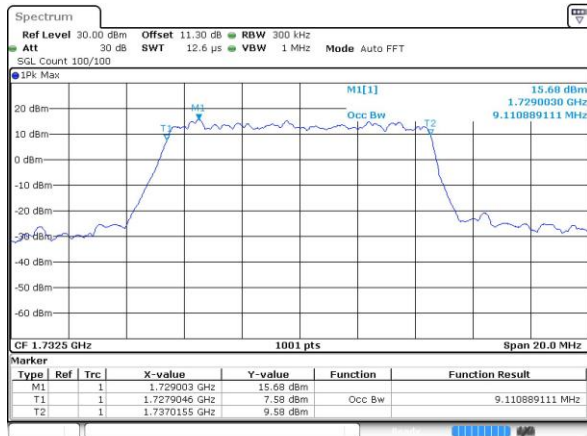
Date: 30 MAR 2018 19:30:50

Lowest Channel / 10MHz / 16QAM



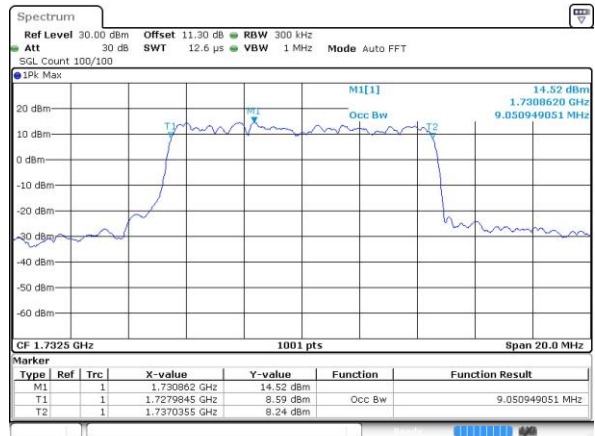
Date: 30 MAR 2018 19:31:01

Middle Channel / 10MHz / QPSK



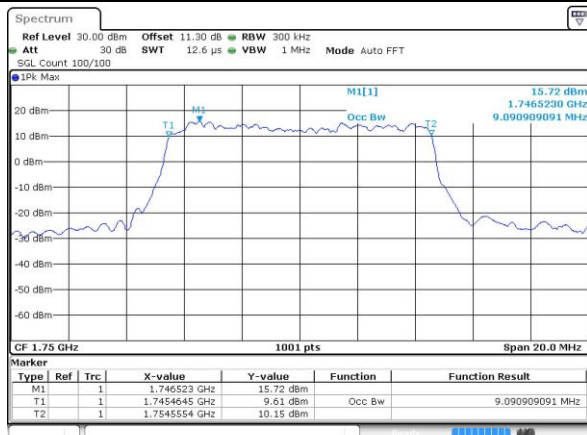
Date: 30 MAR 2018 19:37:51

Middle Channel / 10MHz / 16QAM



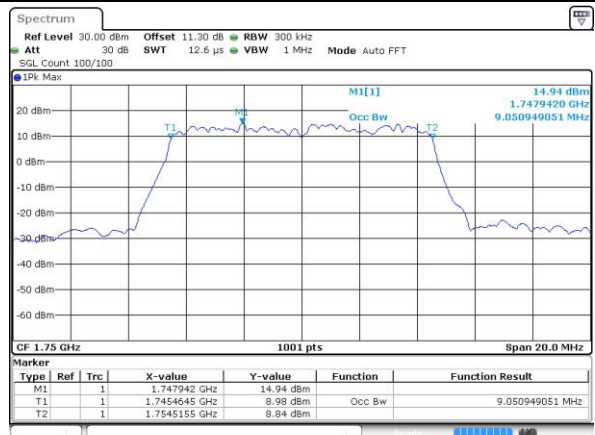
Date: 30 MAR 2018 19:38:02

Highest Channel / 10MHz / QPSK



Date: 30 MAR 2018 19:40:21

Highest Channel / 10MHz / 16QAM

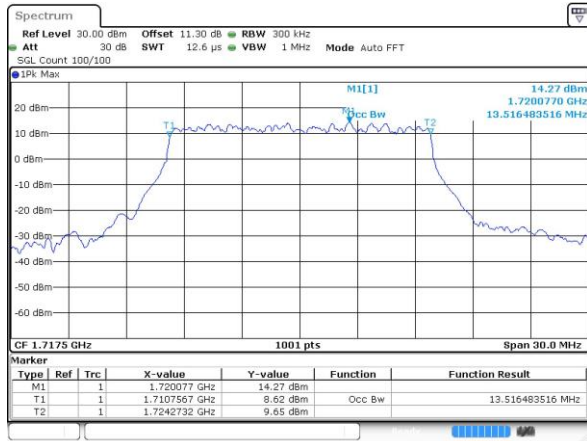


Date: 30 MAR 2018 19:40:32

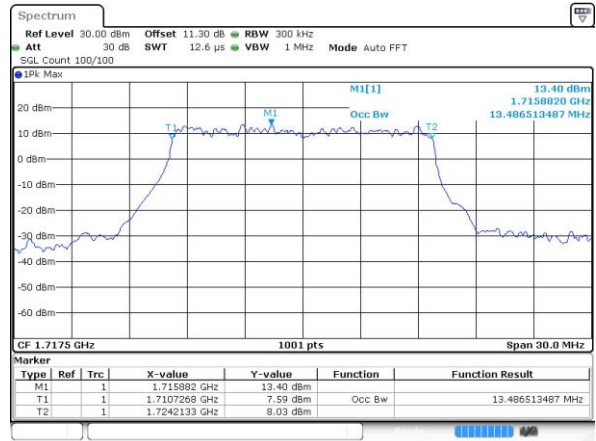


LTE Band 4

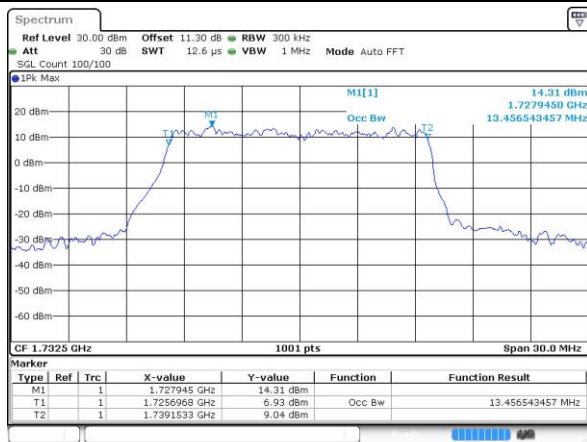
Lowest Channel / 15MHz / QPSK



Lowest Channel / 15MHz / 16QAM



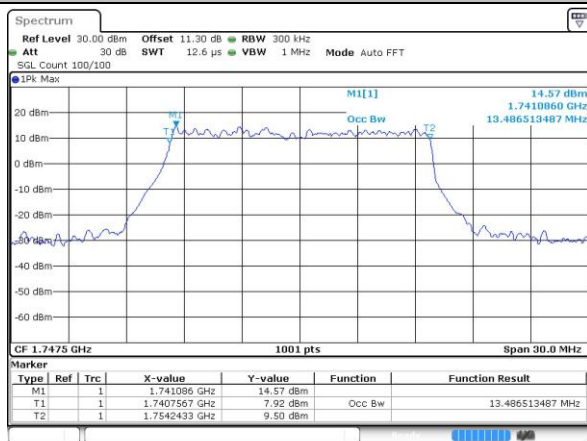
Middle Channel / 15MHz / QPSK



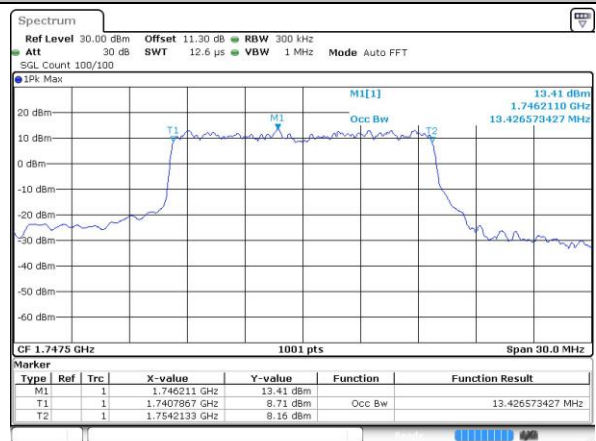
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



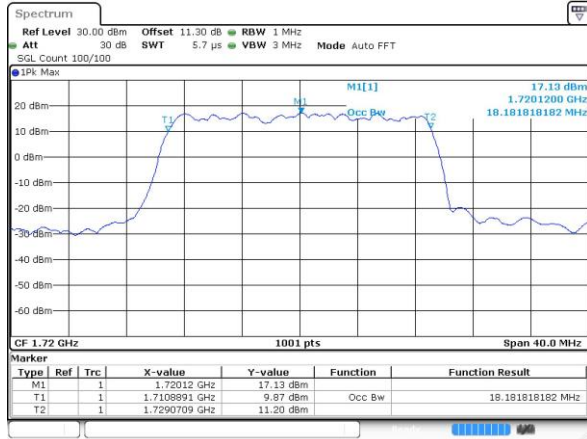
Highest Channel / 15MHz / 16QAM





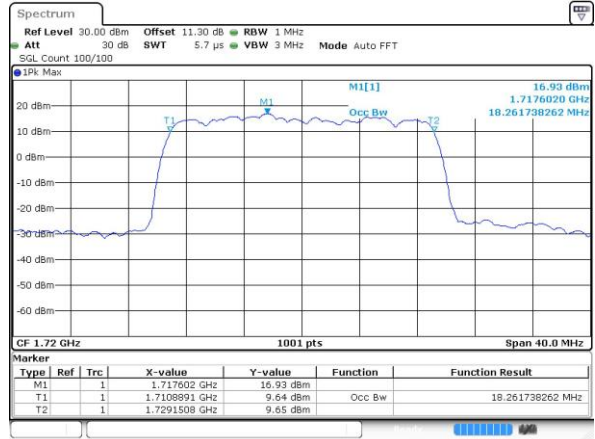
LTE Band 4

Lowest Channel / 20MHz / QPSK



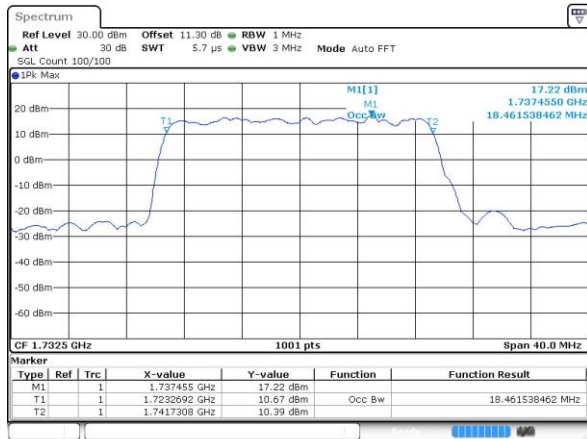
Date: 30 MAR 2018 20:07:50

Lowest Channel / 20MHz / 16QAM



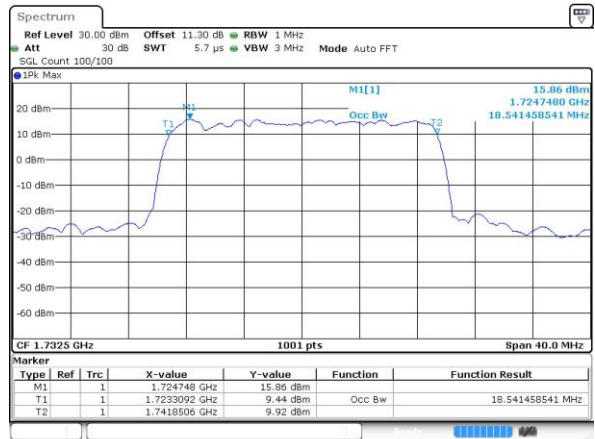
Date: 30 MAR 2018 20:08:00

Middle Channel / 20MHz / QPSK



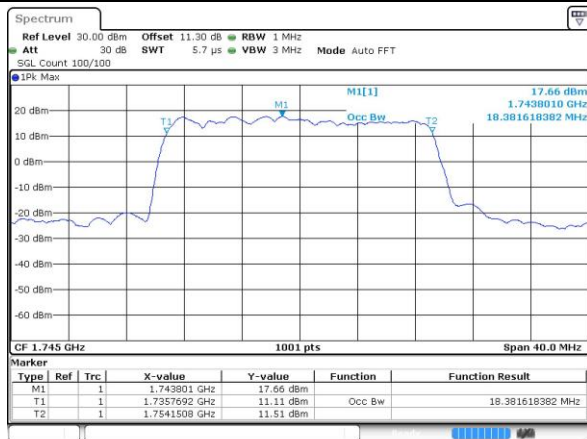
Date: 30 MAR 2018 20:14:51

Middle Channel / 20MHz / 16QAM



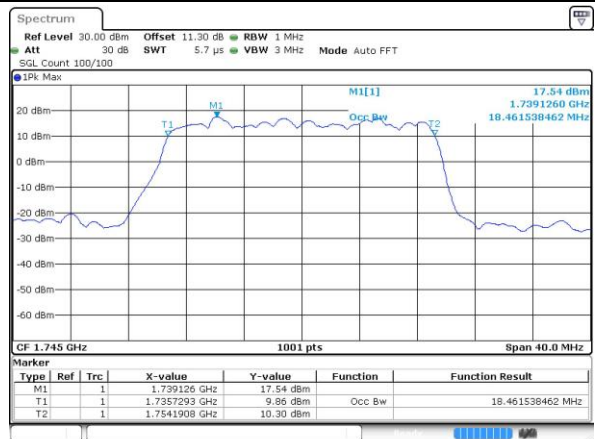
Date: 30 MAR 2018 20:15:01

Highest Channel / 20MHz / QPSK



Date: 30 MAR 2018 20:17:21

Highest Channel / 20MHz / 16QAM



Date: 30 MAR 2018 20:17:31