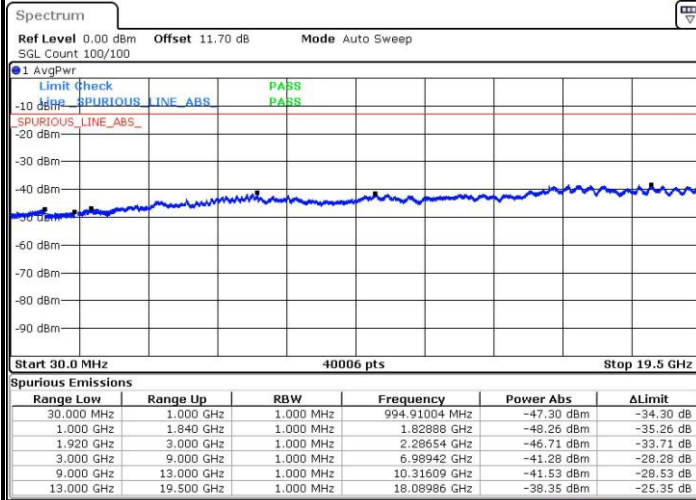




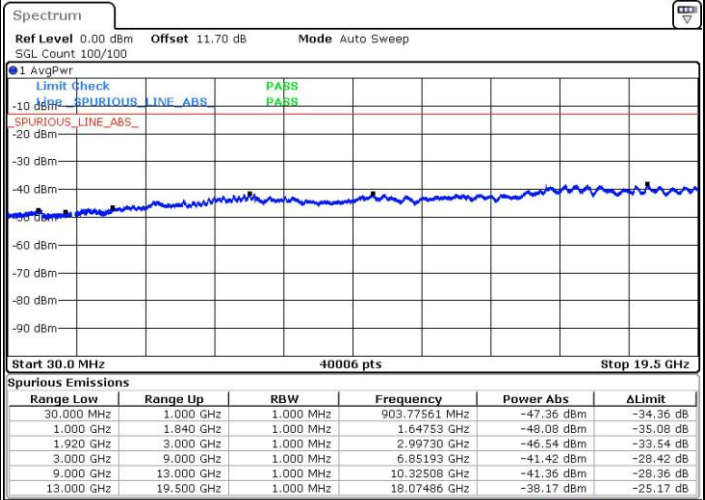
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 20 FEB 2017 10:19:14

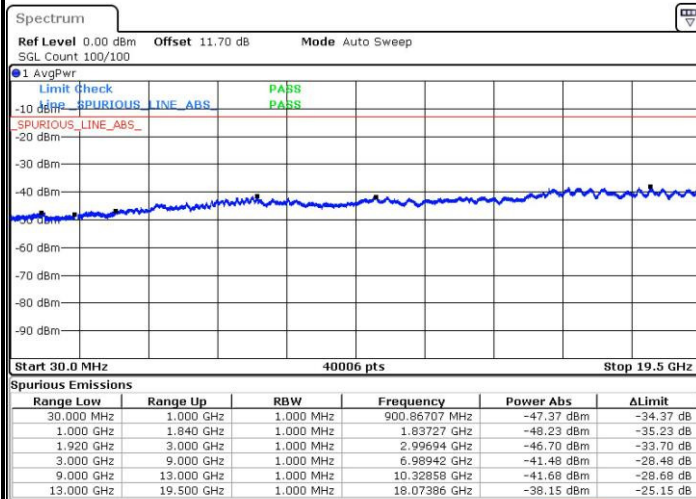
Highest Channel / 16QAM



Date: 20 FEB 2017 10:20:08

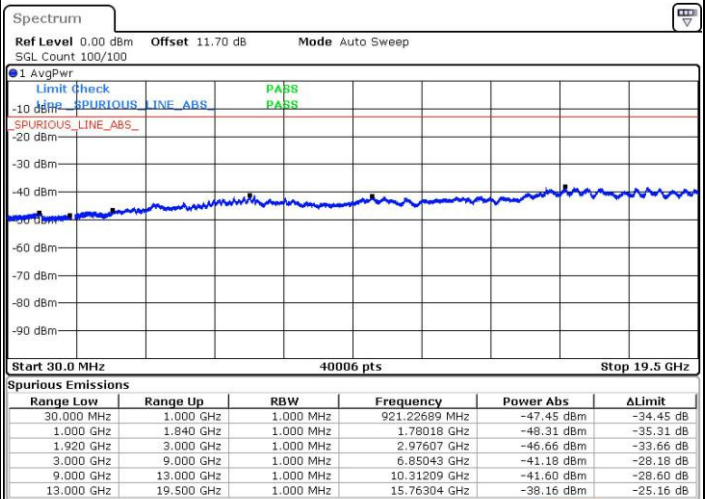
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 20 FEB 2017 10:26:21

Lowest Channel / 16QAM

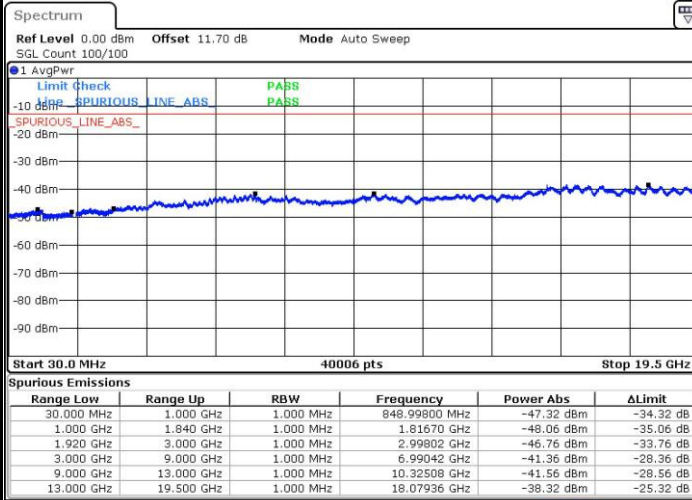


Date: 20 FEB 2017 10:27:15



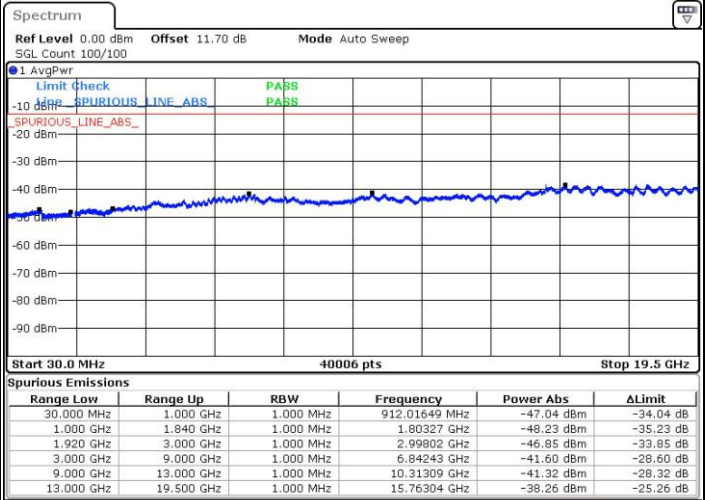
LTE Band 2 / 20MHz

Middle Channel / QPSK



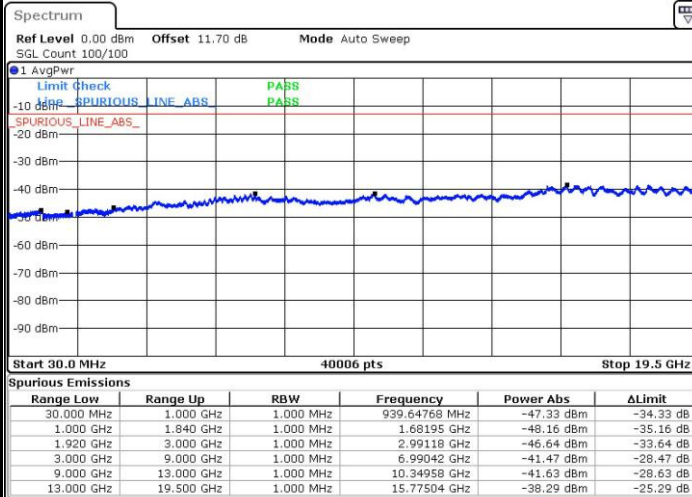
Date: 20 FEB 2017 10:28:51

Middle Channel / 16QAM



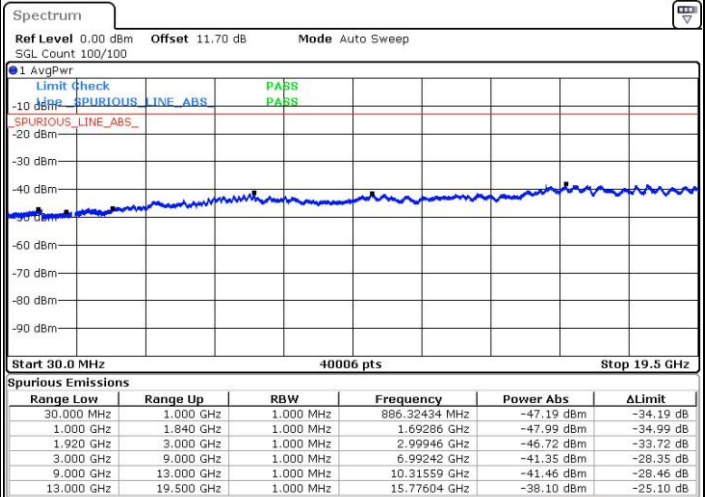
Date: 20 FEB 2017 10:29:45

Highest Channel / QPSK



Date: 20 FEB 2017 10:35:58

Highest Channel / 16QAM



Date: 20 FEB 2017 10:36:52

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	0.0055	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0047	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0061	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.9 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.



LTE Band 4

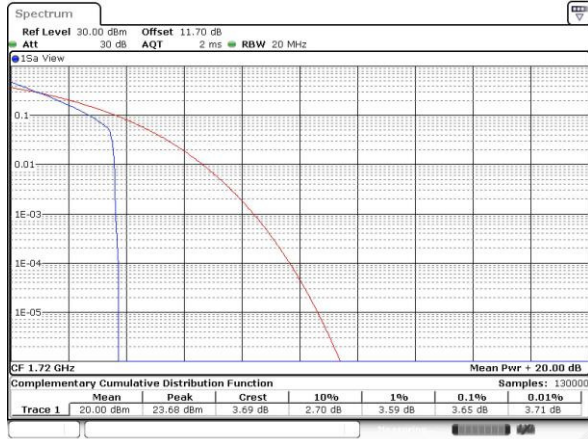
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	4.78	4.49	5.68	PASS
Middle CH	3.54	4.93	4.23	5.8	
Highest CH	3.51	4.9	4.43	5.71	

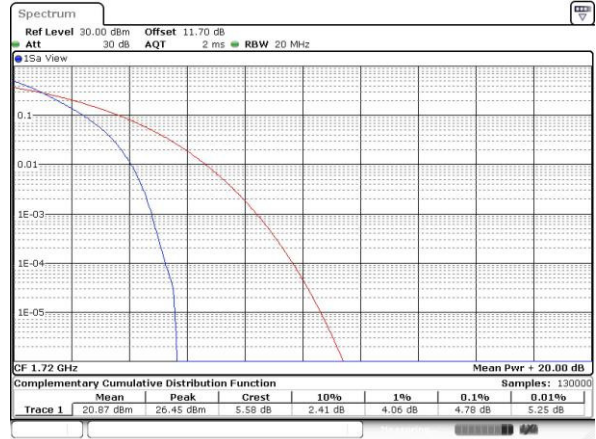


LTE Band 4 / 20MHz / QPSK

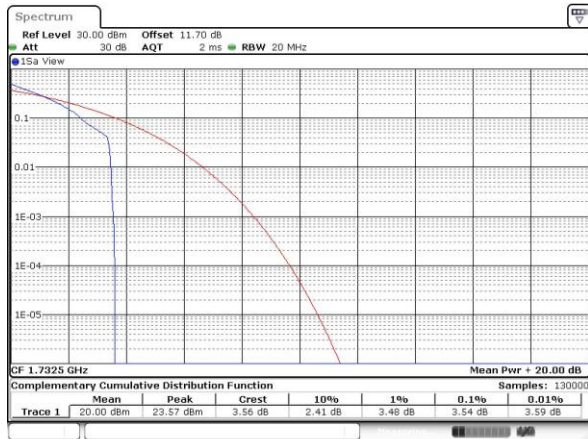
Lowest Channel / 1RB



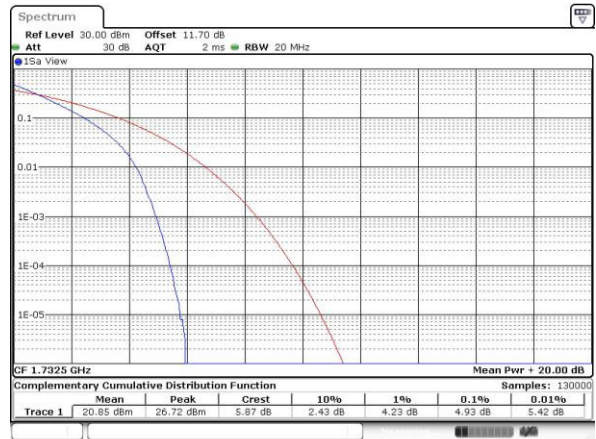
Lowest Channel / Full RB



Middle Channel / 1RB



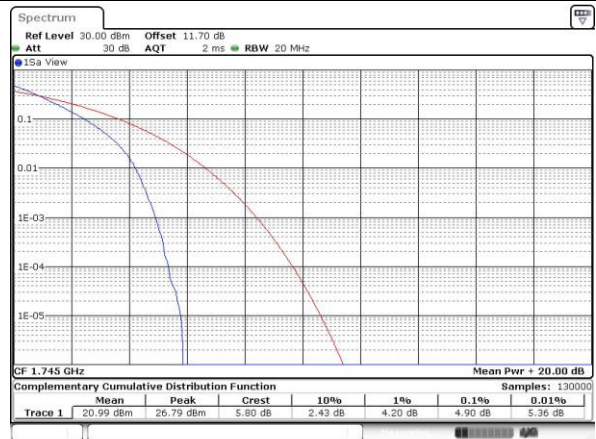
Middle Channel / Full RB



Highest Channel / 1RB



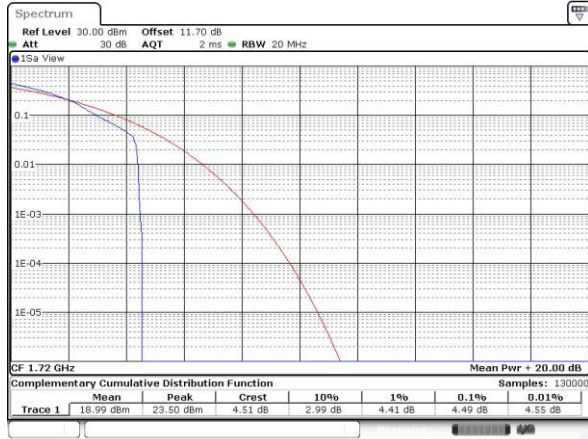
Highest Channel / Full RB



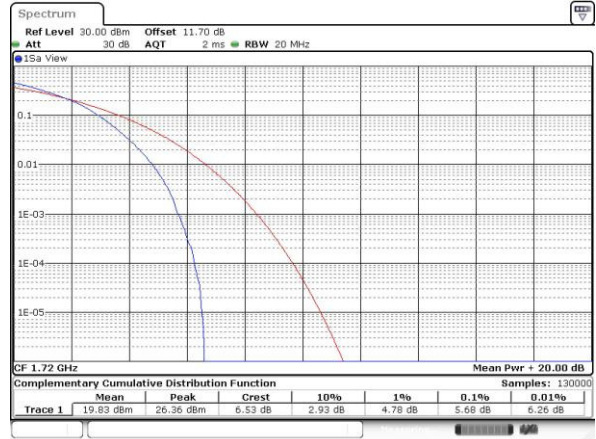


LTE Band 4 / 20MHz / 16QAM

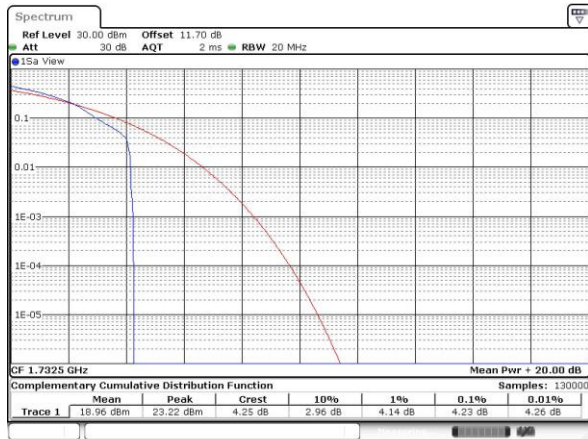
Lowest Channel / 1RB



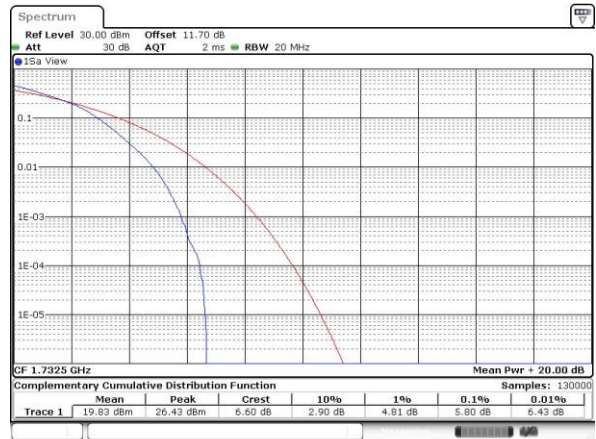
Lowest Channel / Full RB



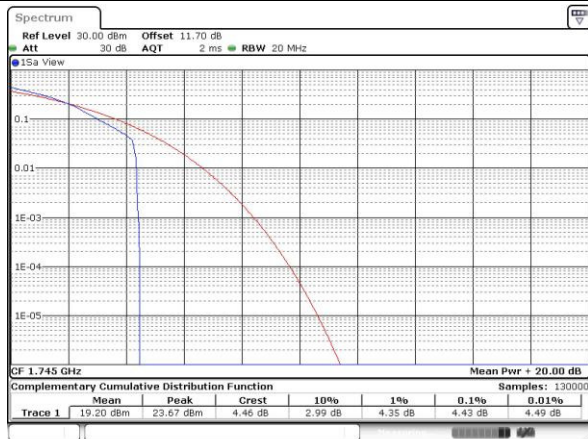
Middle Channel / 1RB



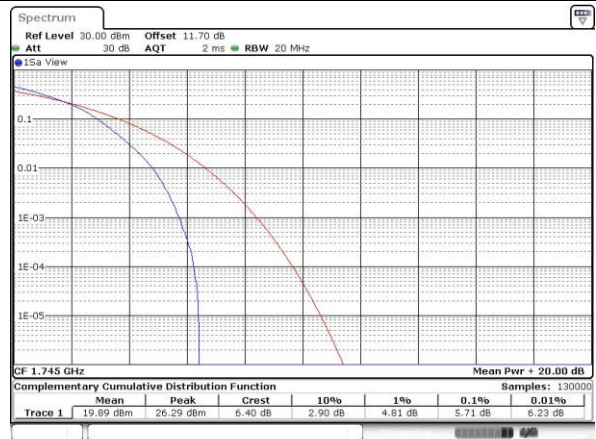
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



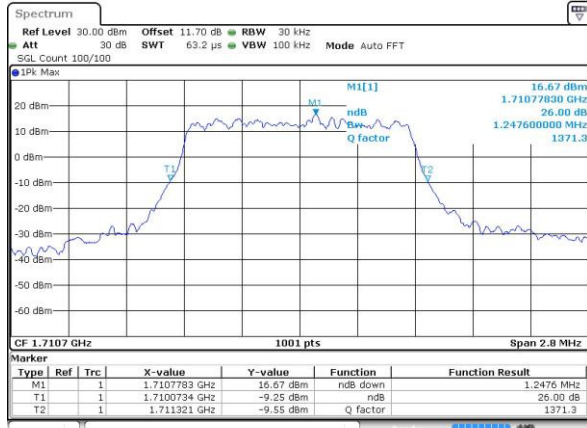
**26dB Bandwidth**

Mode	LTE Band 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	1.25	1.25	3.00	3.04	4.99	4.88	9.73	9.79	14.78	14.36	20.22	20.22
Middle CH	1.29	1.30	3.05	2.97	4.95	4.94	9.87	9.81	14.12	14.66	20.26	20.26
Highest CH	1.28	1.29	3.03	2.99	5.00	4.92	9.79	9.85	14.48	14.54	20.02	20.10



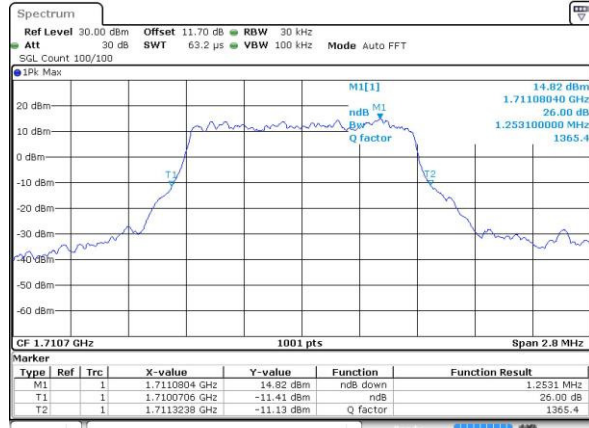
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



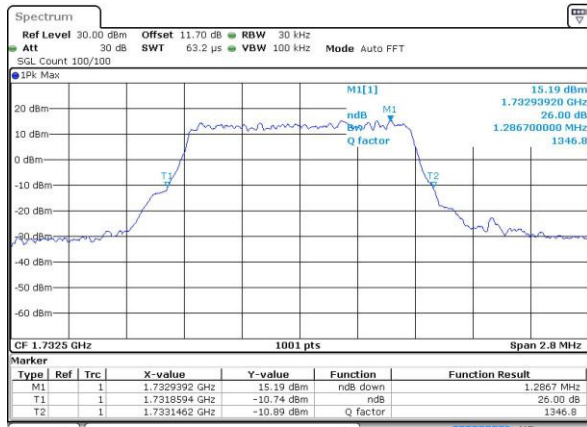
Date: 20 FEB 2017 13:39:13

Lowest Channel / 1.4MHz / 16QAM



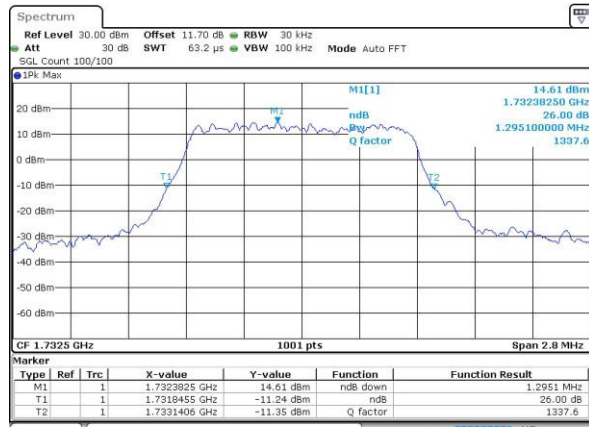
Date: 20 FEB 2017 13:39:23

Middle Channel / 1.4MHz / QPSK



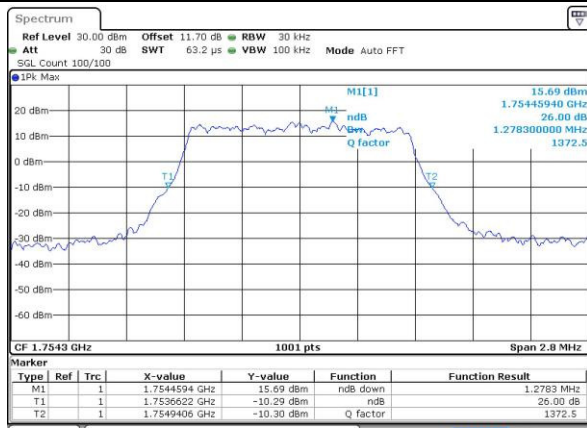
Date: 20 FEB 2017 13:48:19

Middle Channel / 1.4MHz / 16QAM



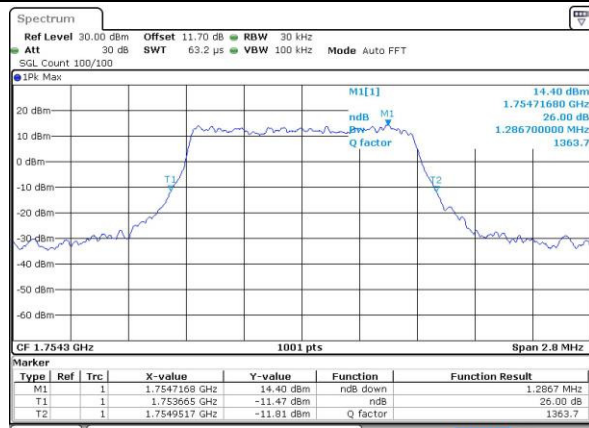
Date: 20 FEB 2017 13:48:30

Highest Channel / 1.4MHz / QPSK



Date: 20 FEB 2017 13:48:50

Highest Channel / 1.4MHz / 16QAM

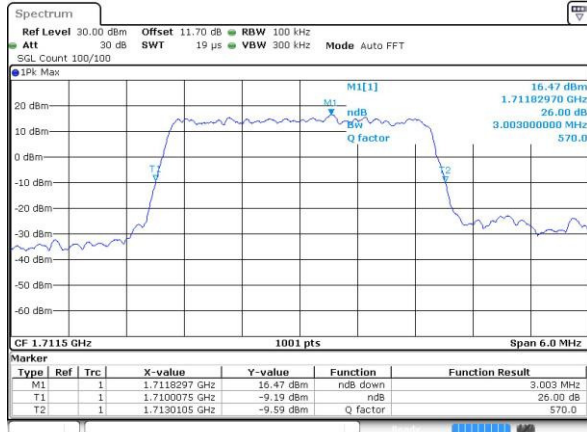


Date: 20 FEB 2017 13:49:00



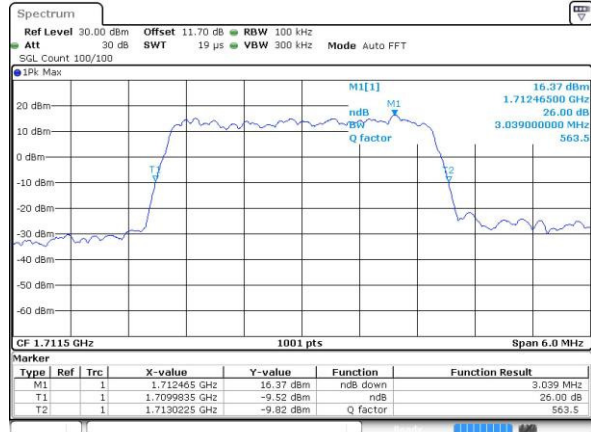
LTE Band 4

Lowest Channel / 3MHz / QPSK



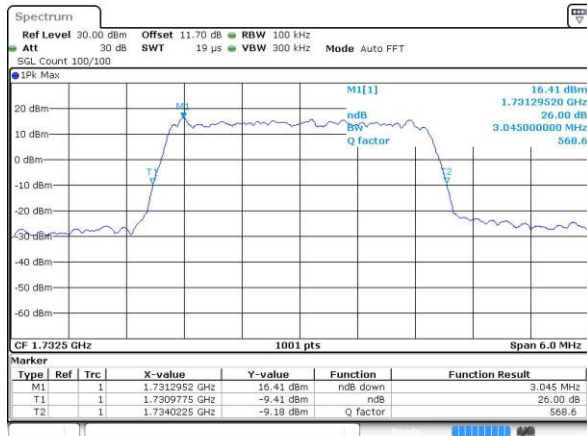
Date: 20 FEB 2017 11:04:39

Lowest Channel / 3MHz / 16QAM



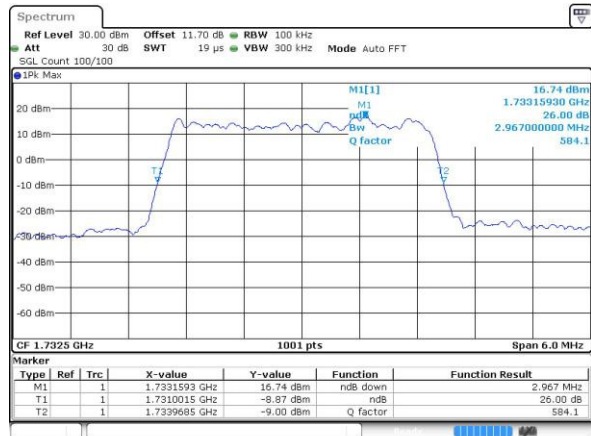
Date: 20 FEB 2017 11:04:49

Middle Channel / 3MHz / QPSK



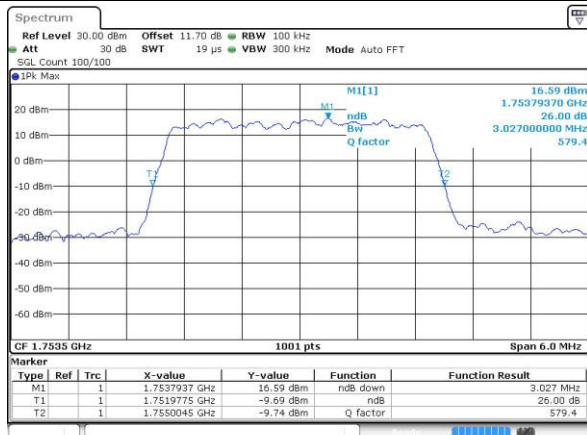
Date: 20 FEB 2017 11:11:48

Middle Channel / 3MHz / 16QAM



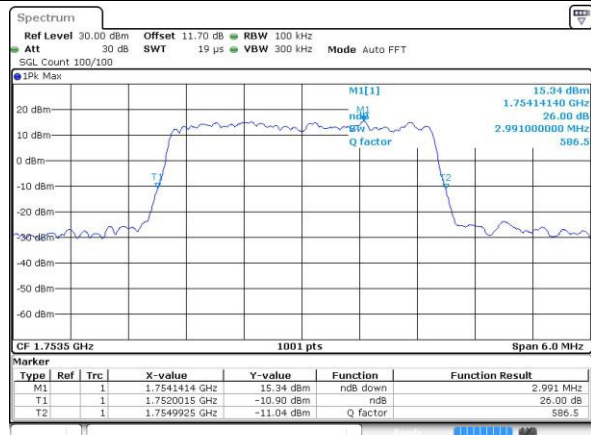
Date: 20 FEB 2017 11:11:56

Highest Channel / 3MHz / QPSK



Date: 20 FEB 2017 11:14:16

Highest Channel / 3MHz / 16QAM

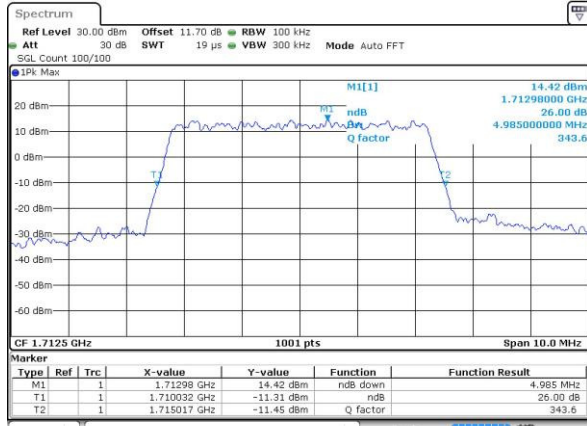


Date: 20 FEB 2017 11:14:26

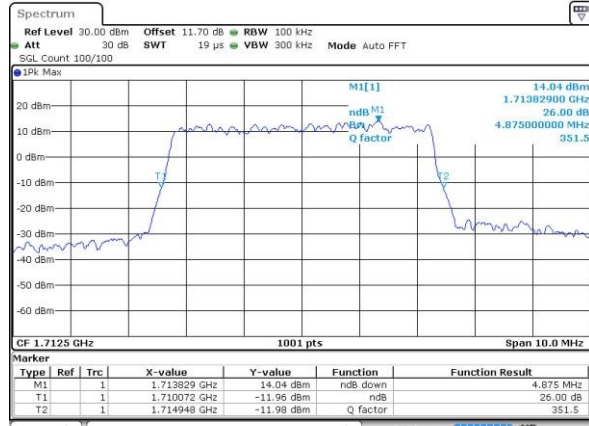


LTE Band 4

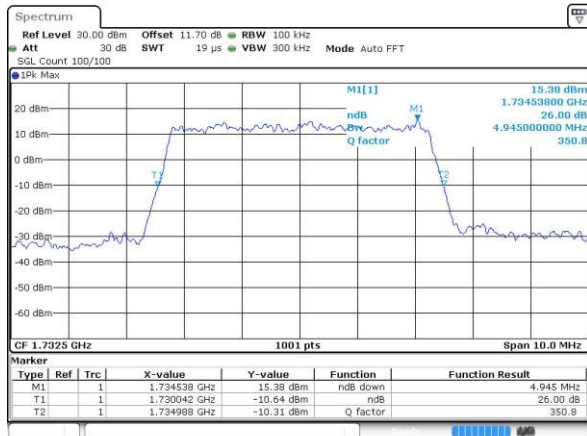
Lowest Channel / 5MHz / QPSK



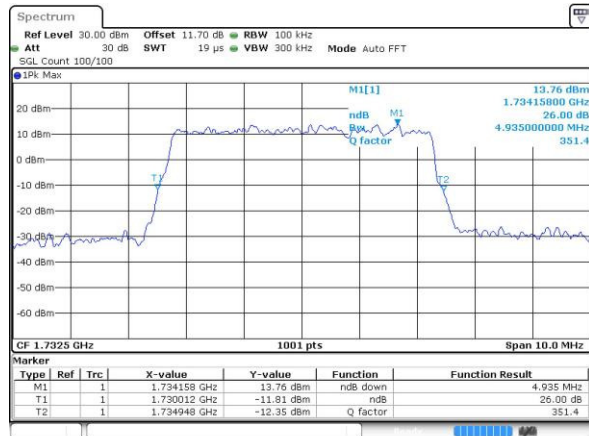
Lowest Channel / 5MHz / 16QAM



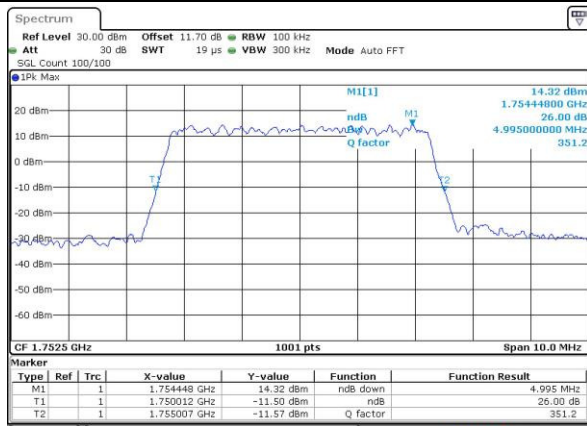
Middle Channel / 5MHz / QPSK



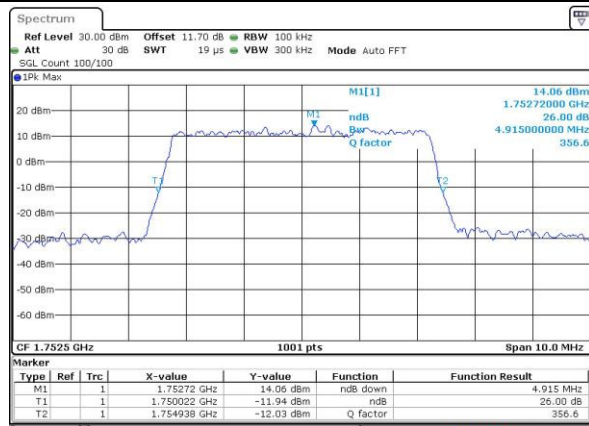
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



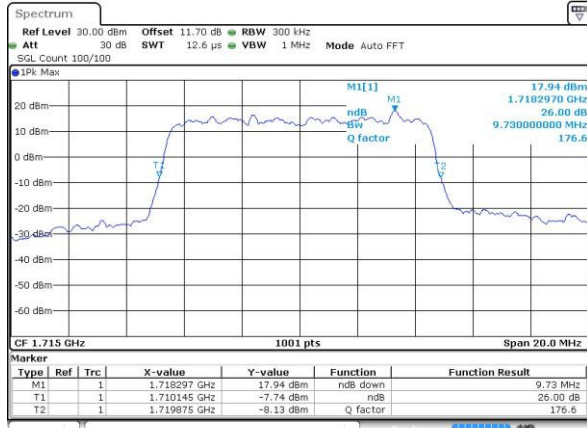
Highest Channel / 5MHz / 16QAM



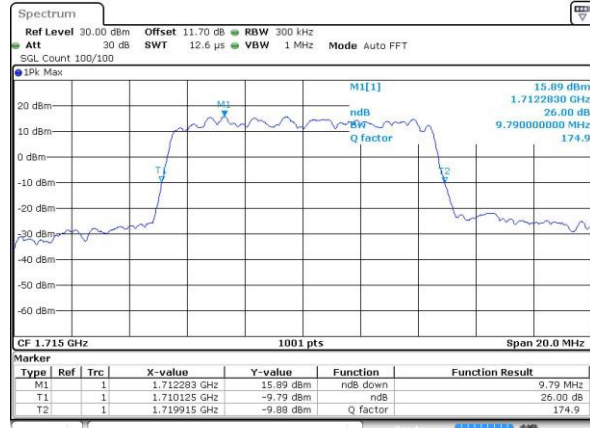


LTE Band 4

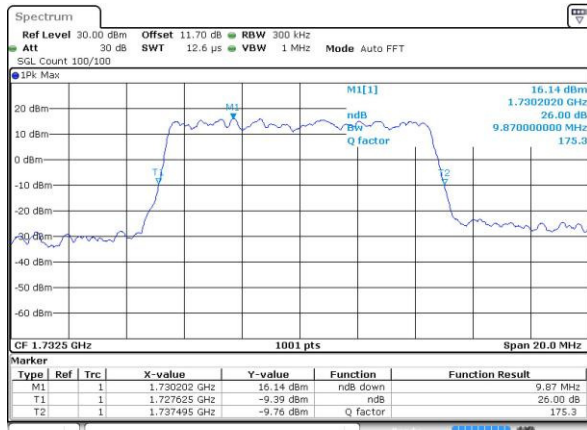
Lowest Channel / 10MHz / QPSK



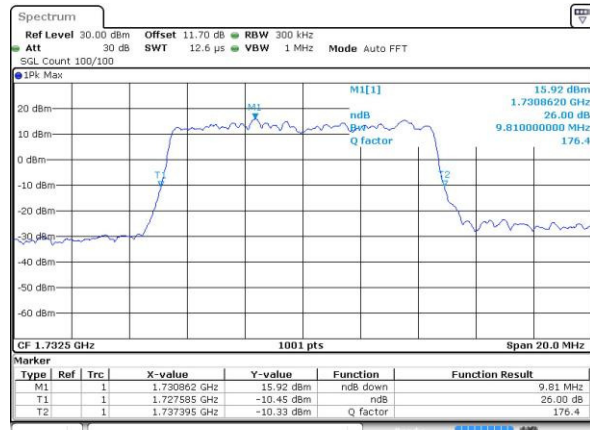
Lowest Channel / 10MHz / 16QAM



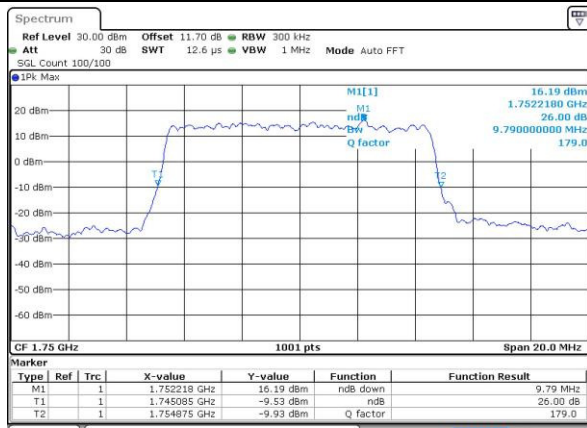
Middle Channel / 10MHz / QPSK



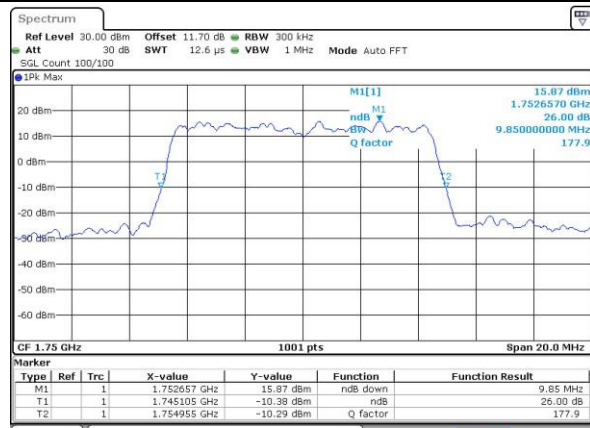
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



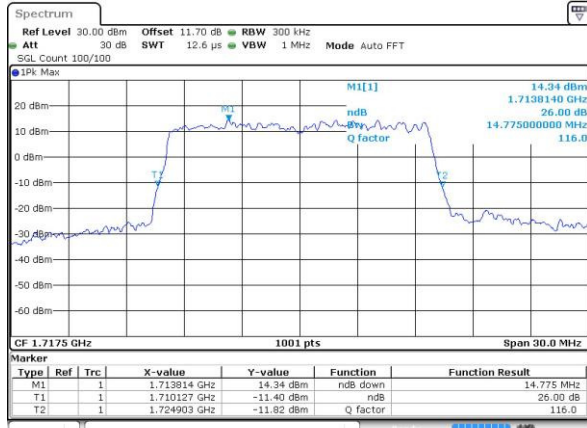
Highest Channel / 10MHz / 16QAM



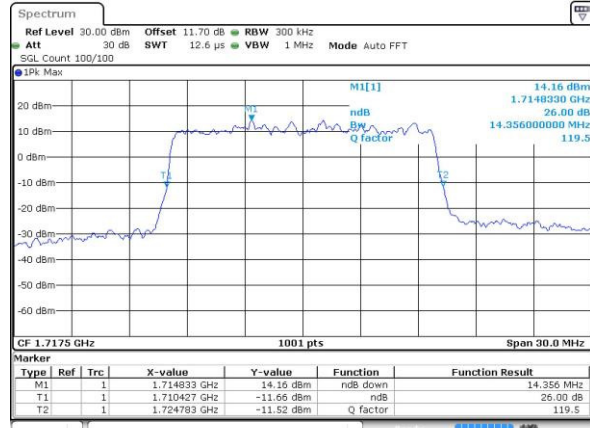


LTE Band 4

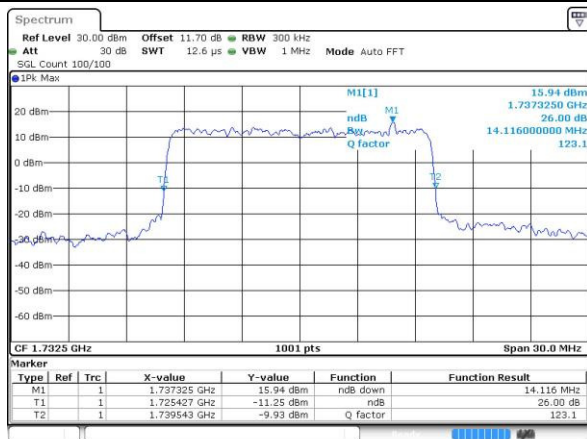
Lowest Channel / 15MHz / QPSK



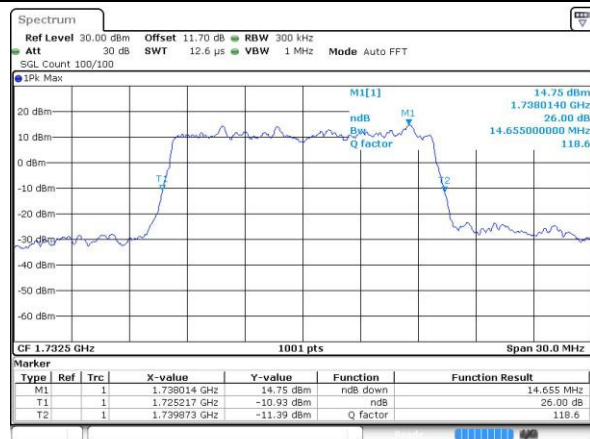
Lowest Channel / 15MHz / 16QAM



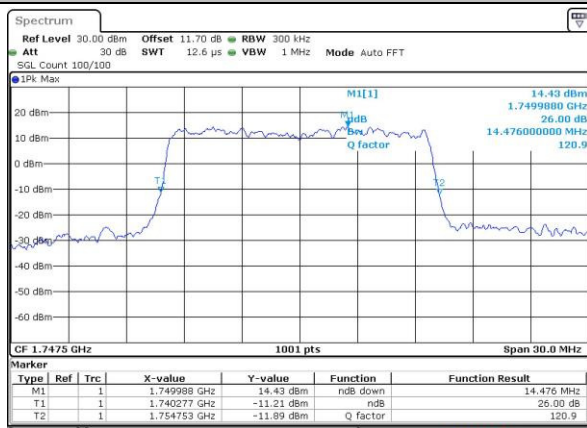
Middle Channel / 15MHz / QPSK



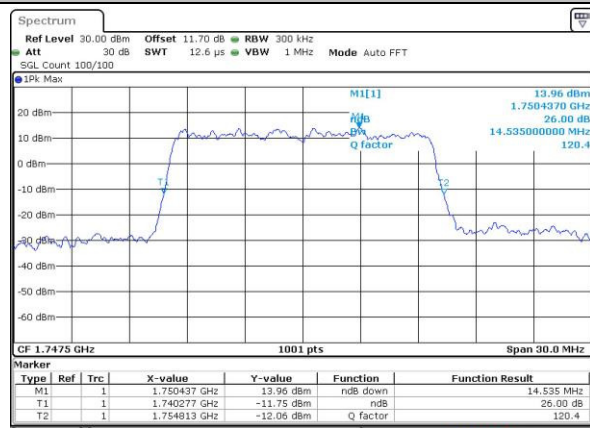
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



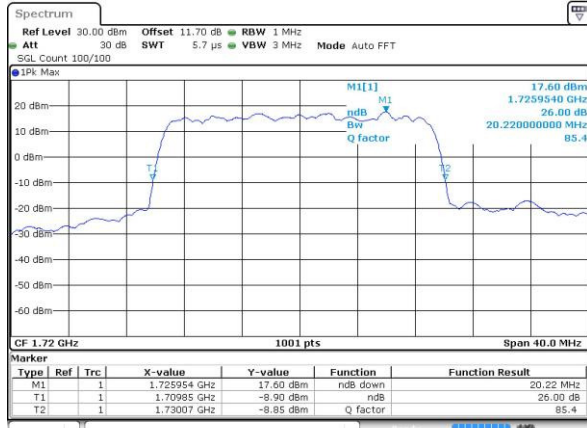
Highest Channel / 15MHz / 16QAM



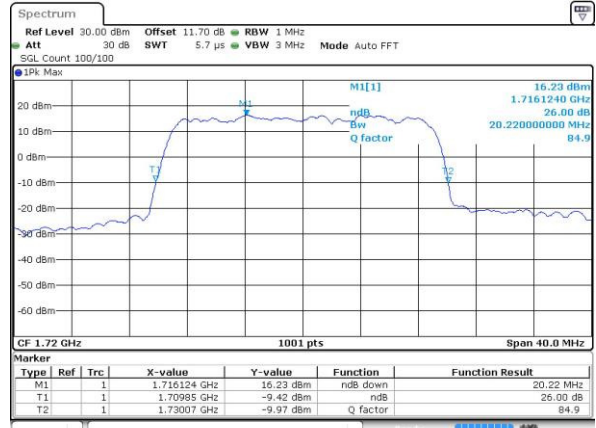


LTE Band 4

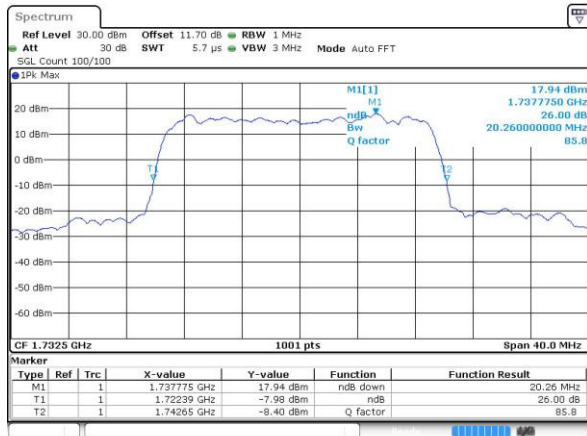
Lowest Channel / 20MHz / QPSK



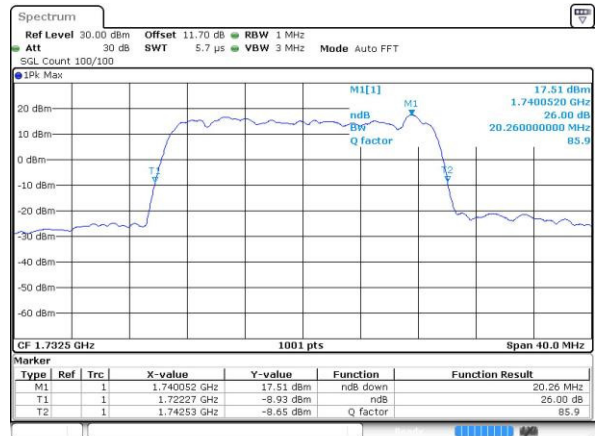
Lowest Channel / 20MHz / 16QAM



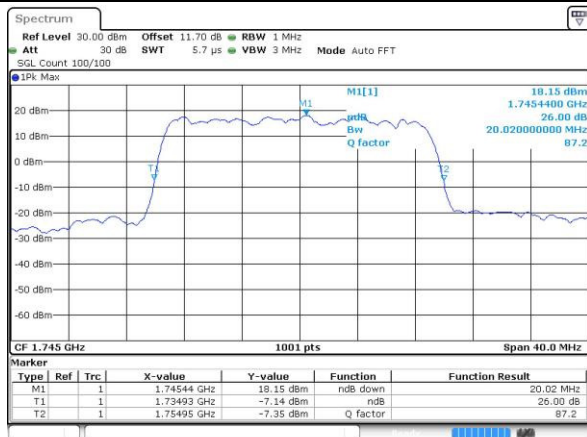
Middle Channel / 20MHz / QPSK



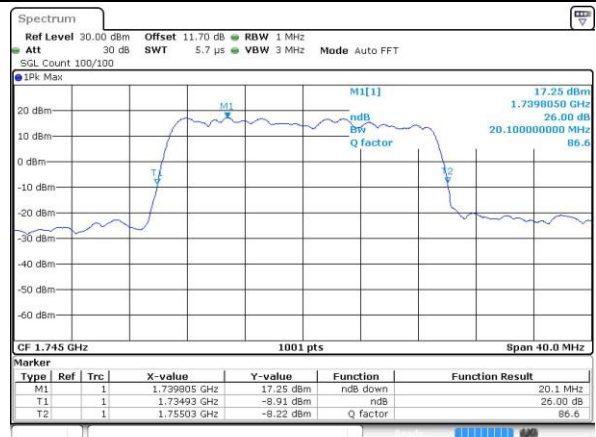
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



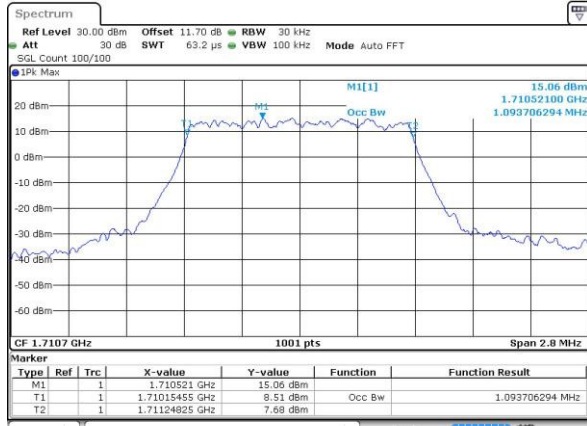
**Occupied Bandwidth**

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	2.71	2.69	4.49	4.5	9.05	9.01	13.43	13.46	18.34	18.42
Middle CH	1.1	1.09	2.7	2.72	4.49	4.49	9.07	9.05	13.52	13.43	18.3	18.46
Highest CH	1.09	1.09	2.71	2.71	4.48	4.49	9.05	8.97	13.49	13.46	18.3	18.38

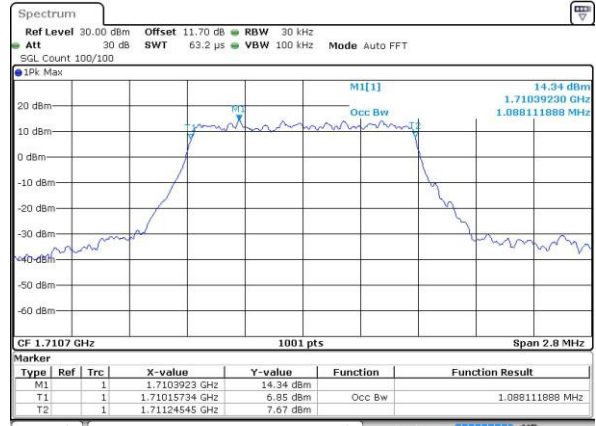


LTE Band 4

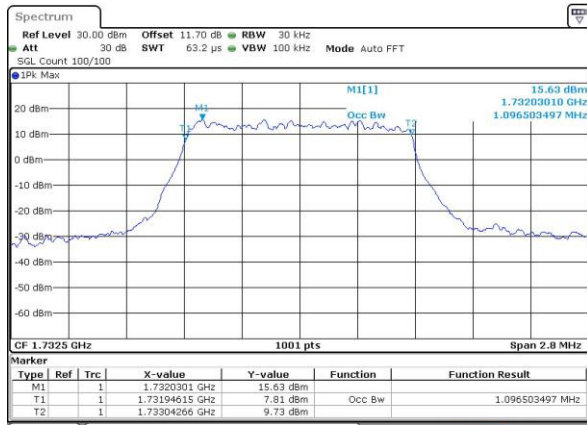
Lowest Channel / 1.4MHz / QPSK



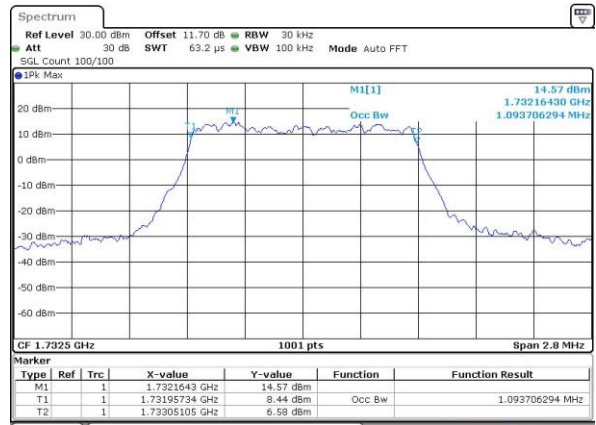
Lowest Channel / 1.4MHz / 16QAM



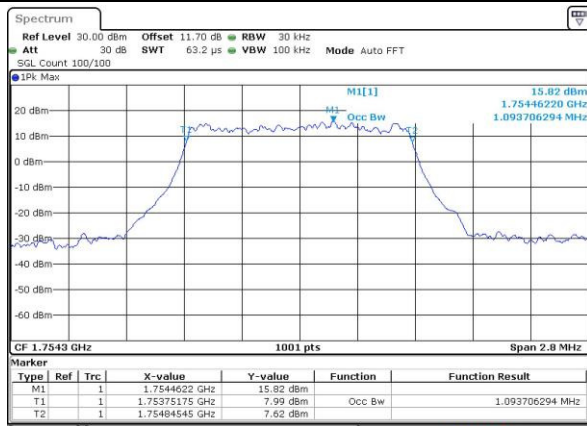
Middle Channel / 1.4MHz / QPSK



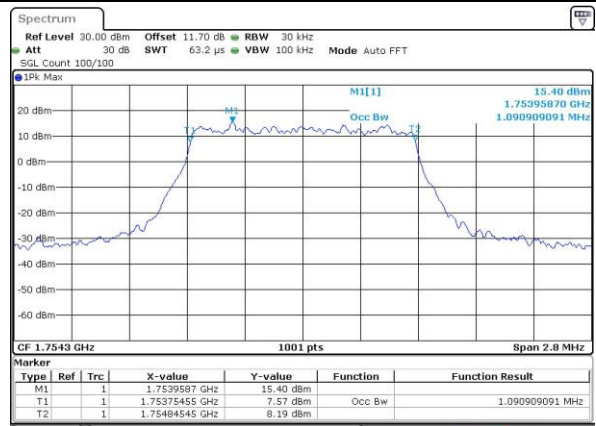
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



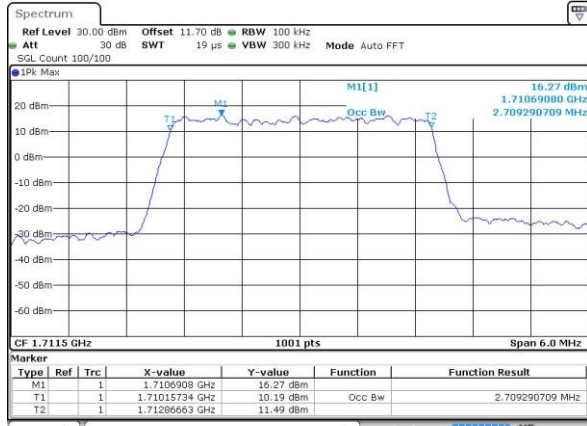
Highest Channel / 1.4MHz / 16QAM



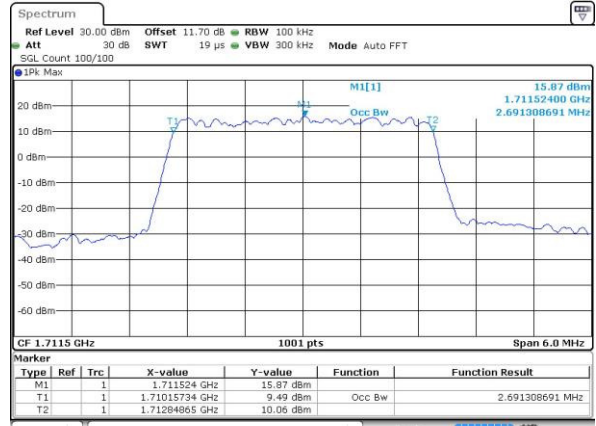


LTE Band 4

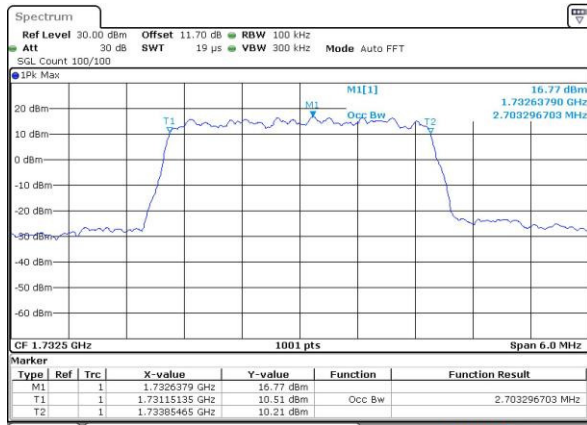
Lowest Channel / 3MHz / QPSK



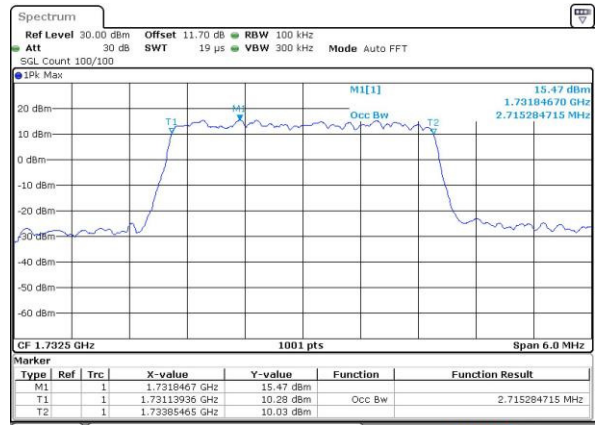
Lowest Channel / 3MHz / 16QAM



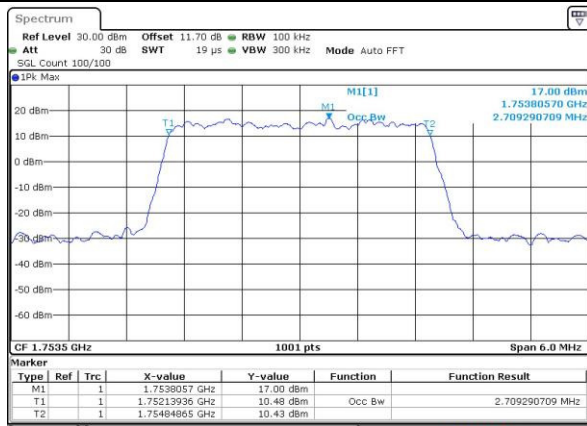
Middle Channel / 3MHz / QPSK



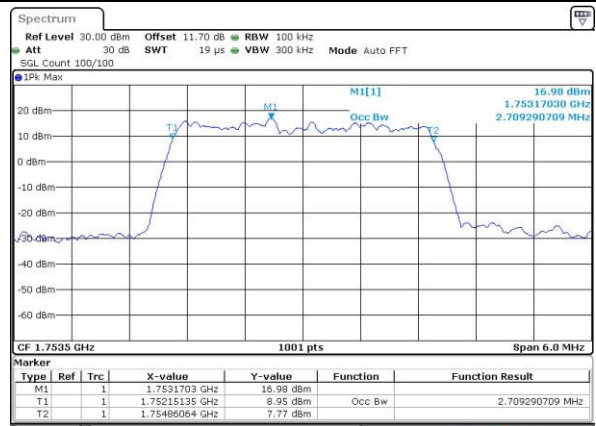
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



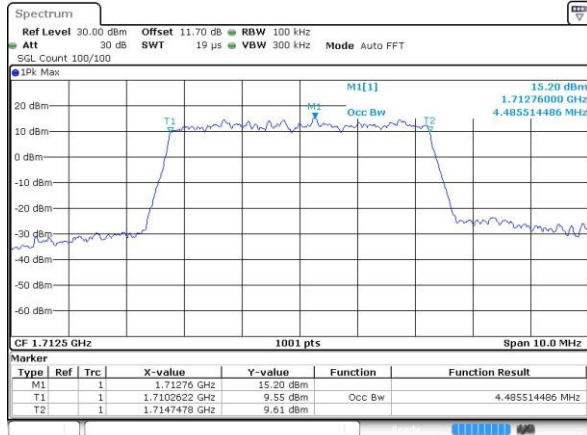
Highest Channel / 3MHz / 16QAM





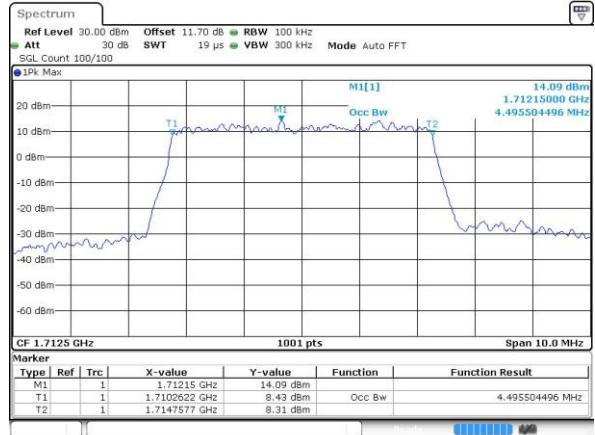
LTE Band 4

Lowest Channel / 5MHz / QPSK



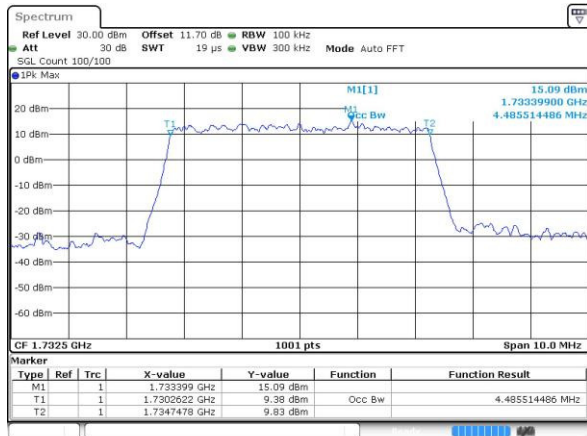
Date: 20 FEB 2017 11:21:02

Lowest Channel / 5MHz / 16QAM



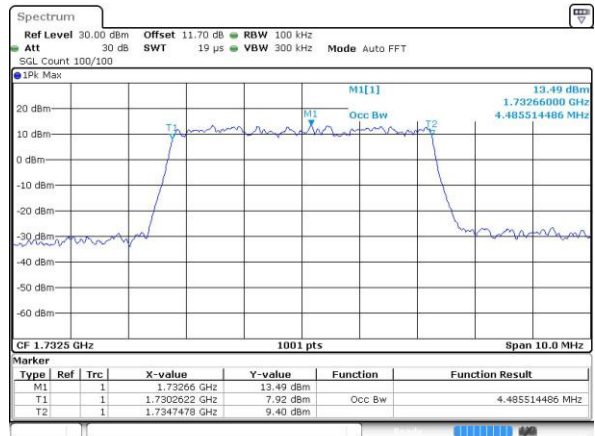
Date: 20 FEB 2017 11:21:12

Middle Channel / 5MHz / QPSK



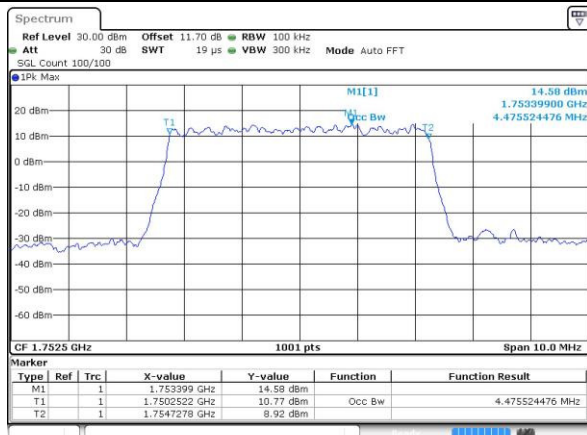
Date: 20 FEB 2017 11:28:09

Middle Channel / 5MHz / 16QAM



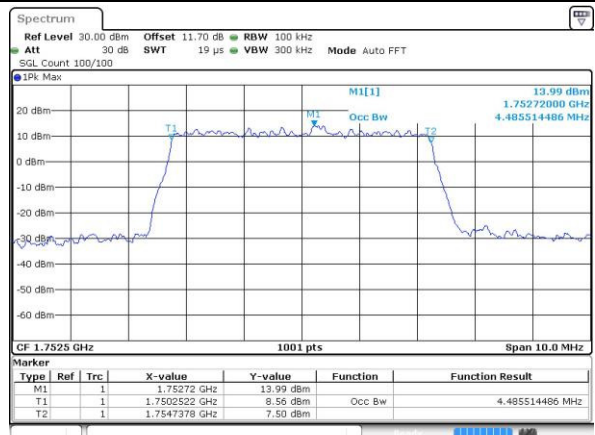
Date: 20 FEB 2017 11:28:19

Highest Channel / 5MHz / QPSK



Date: 20 FEB 2017 11:30:39

Highest Channel / 5MHz / 16QAM

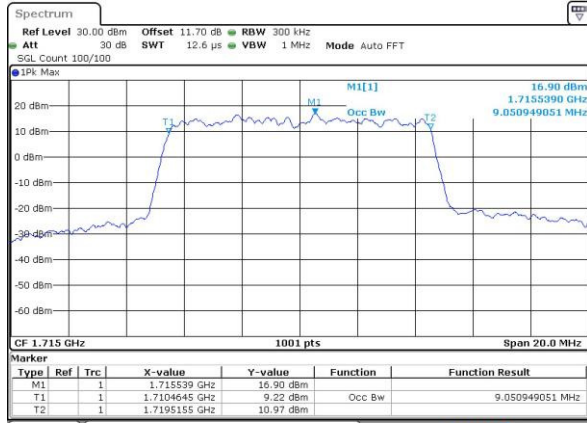


Date: 20 FEB 2017 11:30:50

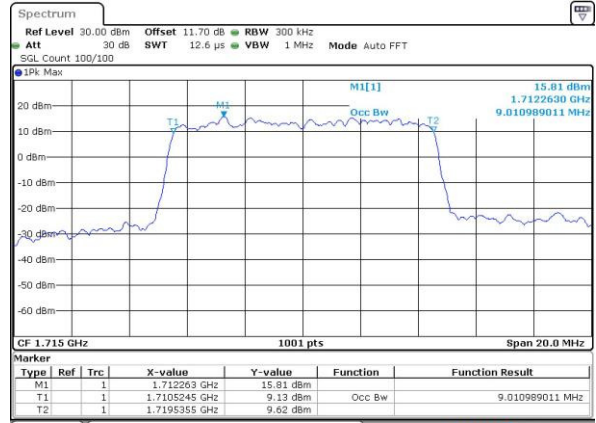


LTE Band 4

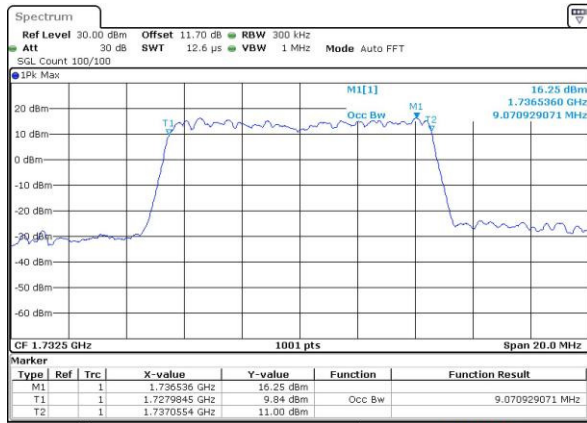
Lowest Channel / 10MHz / QPSK



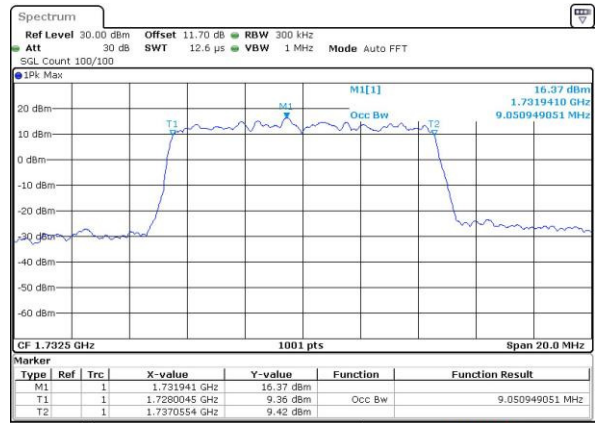
Lowest Channel / 10MHz / 16QAM



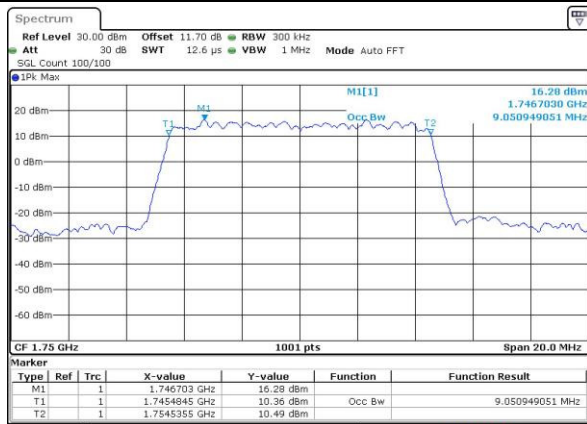
Middle Channel / 10MHz / QPSK



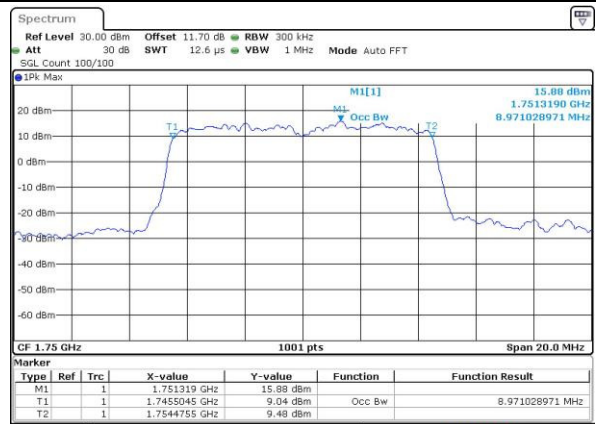
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



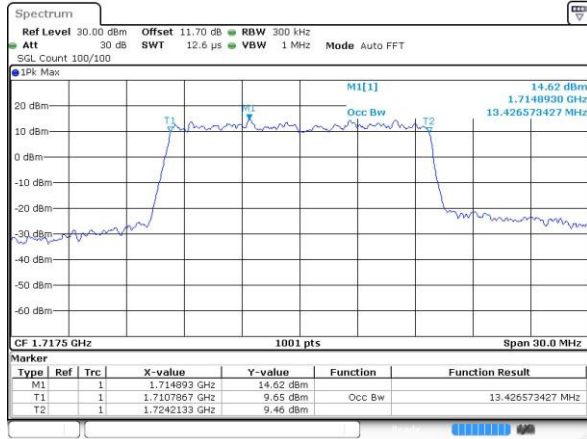
Highest Channel / 10MHz / 16QAM



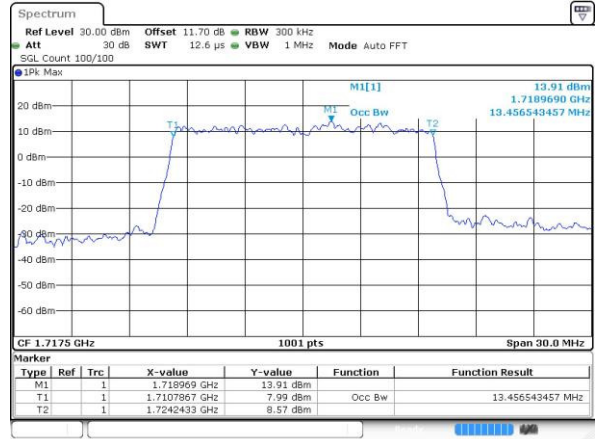


LTE Band 4

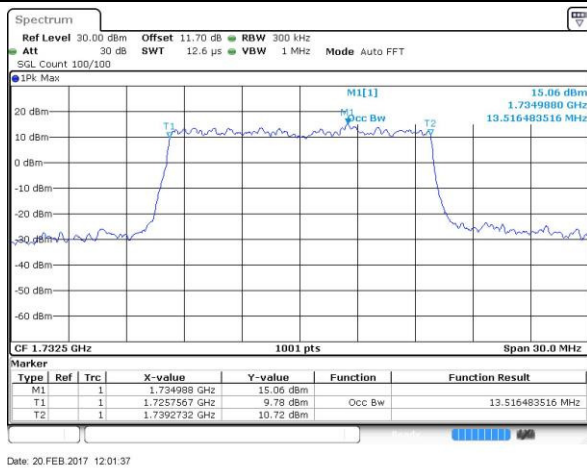
Lowest Channel / 15MHz / QPSK



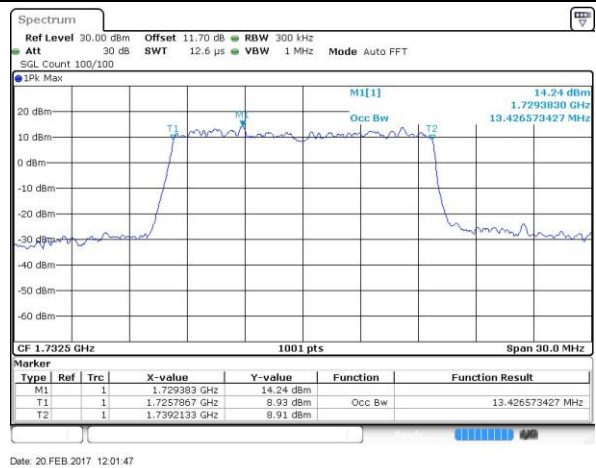
Lowest Channel / 15MHz / 16QAM



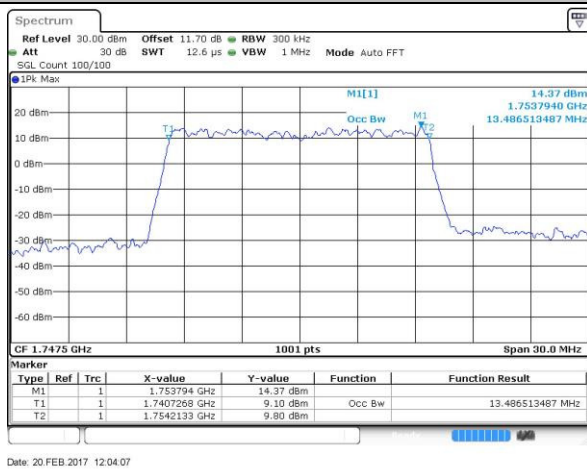
Middle Channel / 15MHz / QPSK



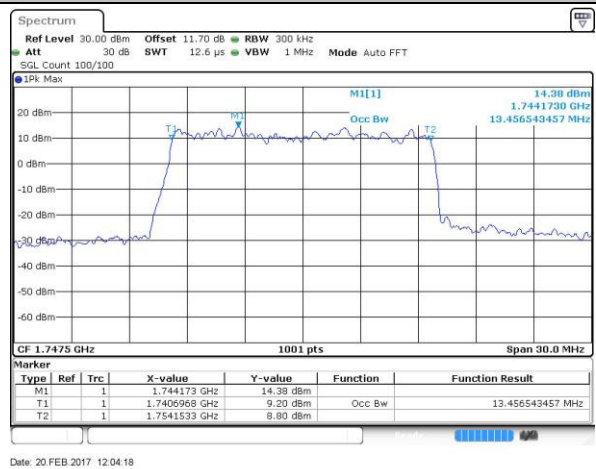
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



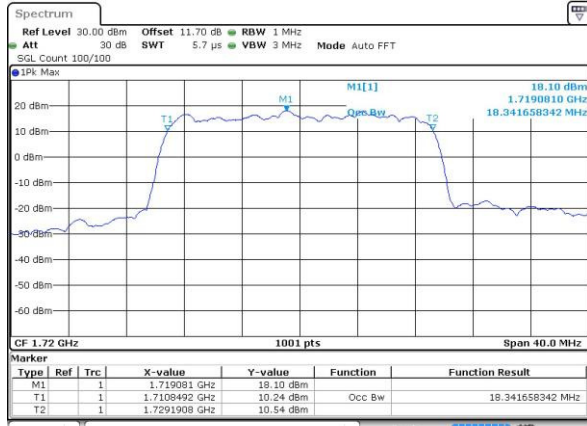
Highest Channel / 15MHz / 16QAM





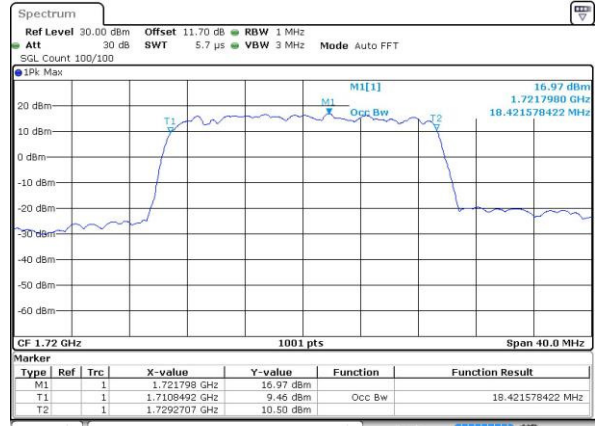
LTE Band 4

Lowest Channel / 20MHz / QPSK



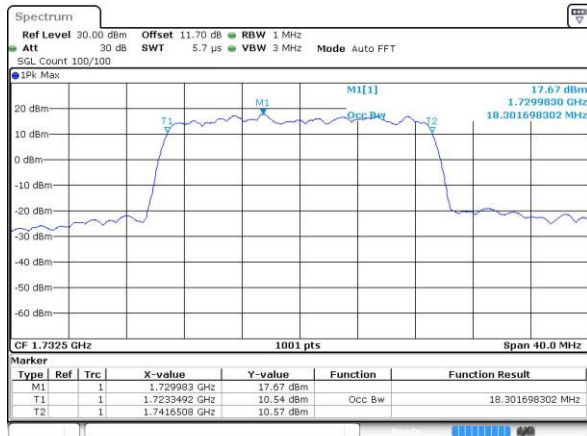
Date: 20 FEB 2017 12:11:15

Lowest Channel / 20MHz / 16QAM



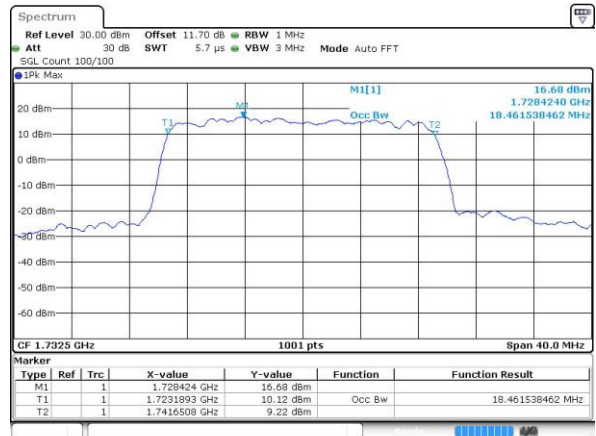
Date: 20 FEB 2017 12:11:25

Middle Channel / 20MHz / QPSK



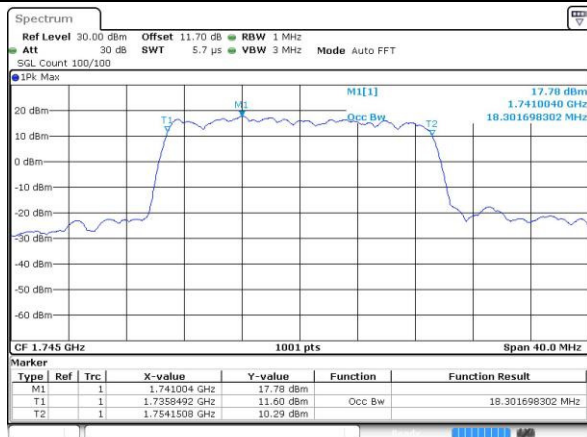
Date: 20 FEB 2017 12:18:21

Middle Channel / 20MHz / 16QAM



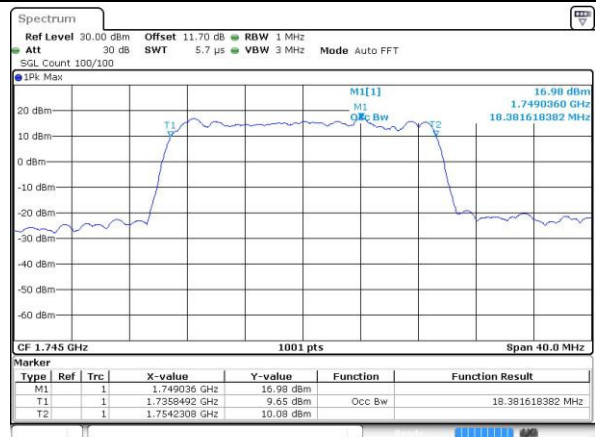
Date: 20 FEB 2017 12:18:32

Highest Channel / 20MHz / QPSK



Date: 20 FEB 2017 12:20:52

Highest Channel / 20MHz / 16QAM



Date: 20 FEB 2017 12:21:02

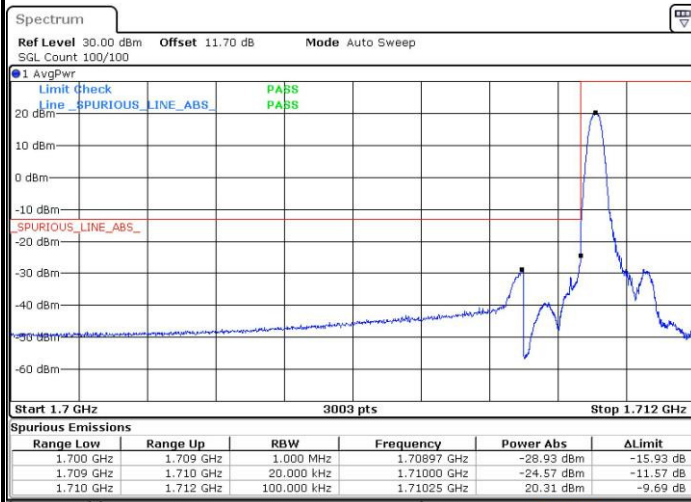


Conducted Band Edge

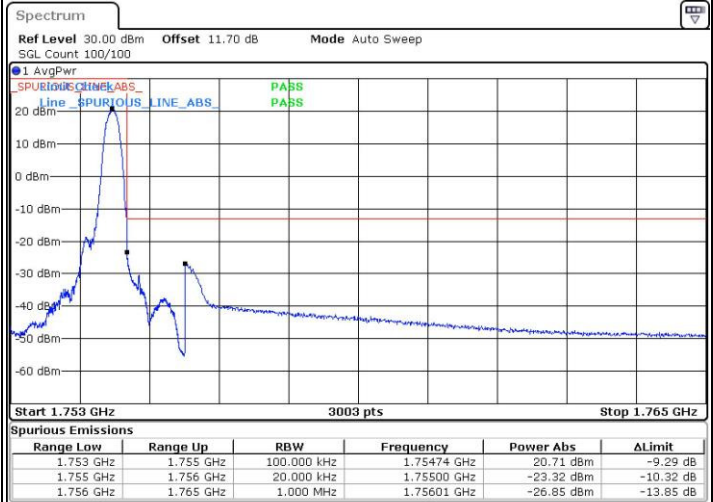


LTE Band 4 / 1.4MHz / QPSK

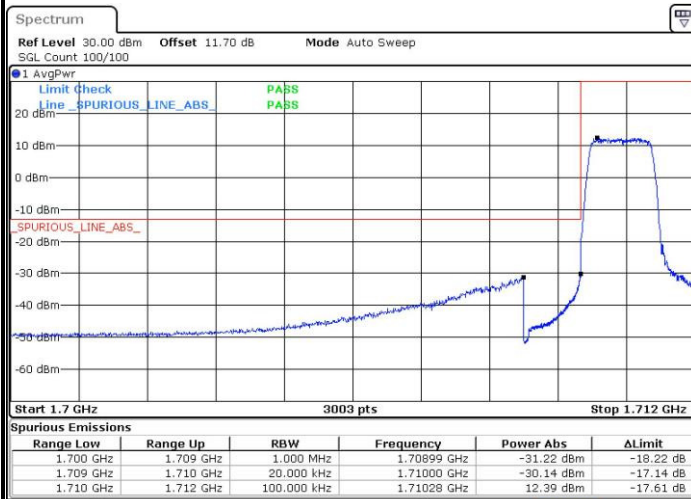
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

