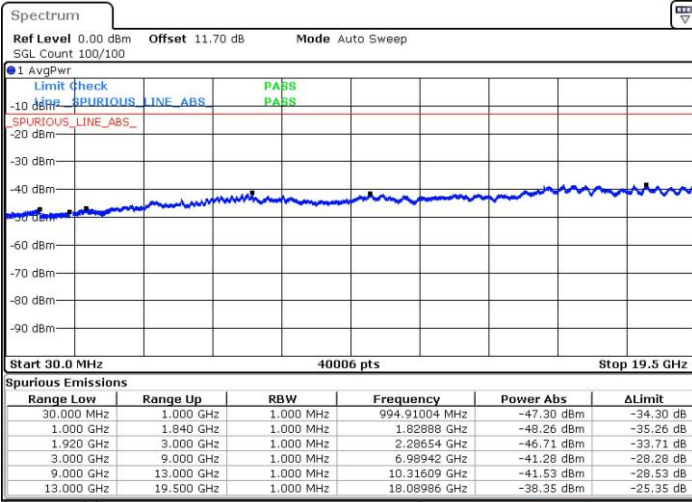




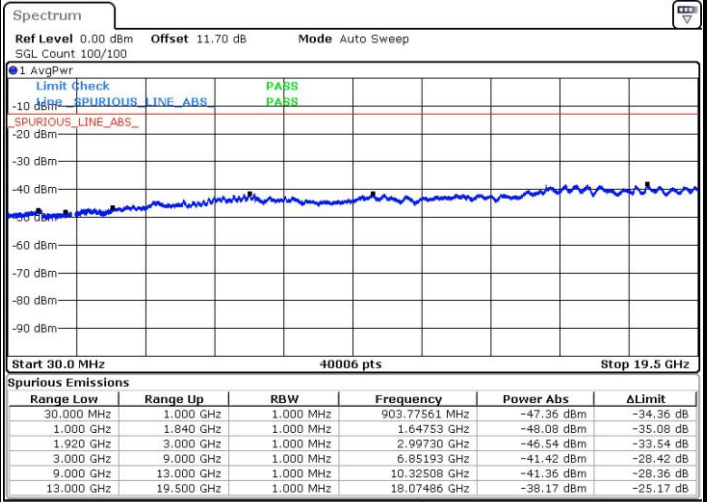
LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 FEB 2017 10:19:14

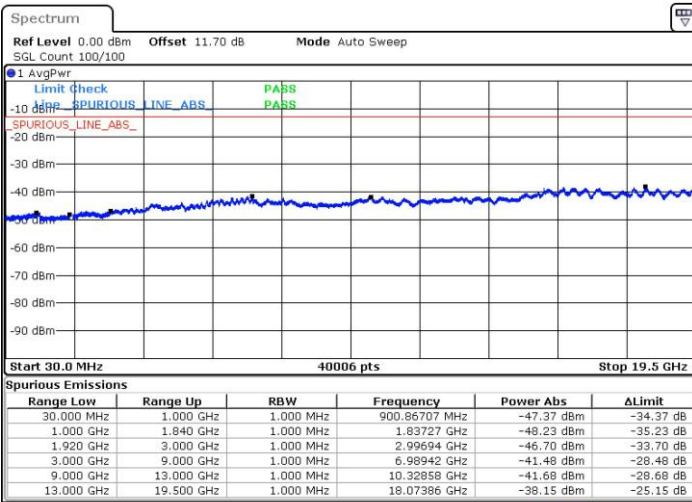


Date: 20 FEB 2017 10:20:08

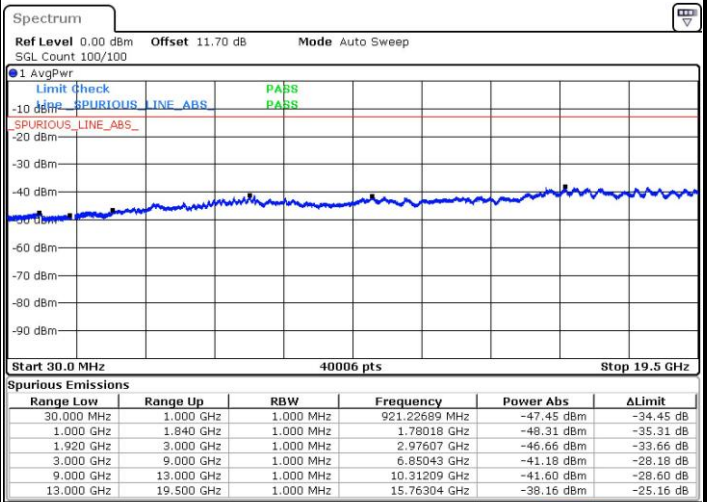
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 20 FEB 2017 10:26:21



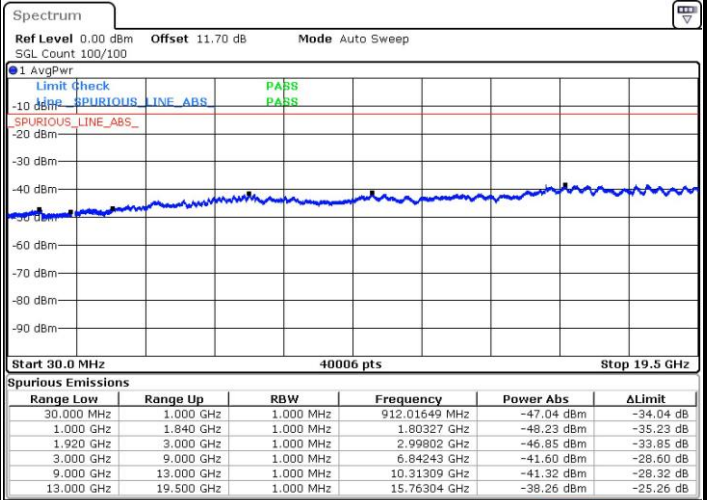
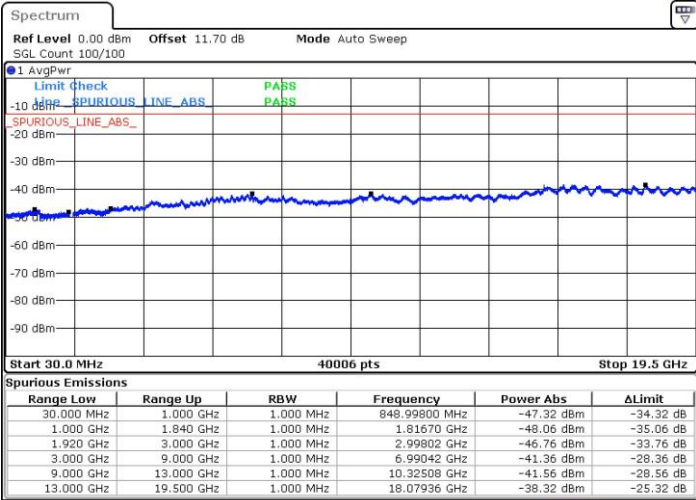
Date: 20 FEB 2017 10:27:15



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

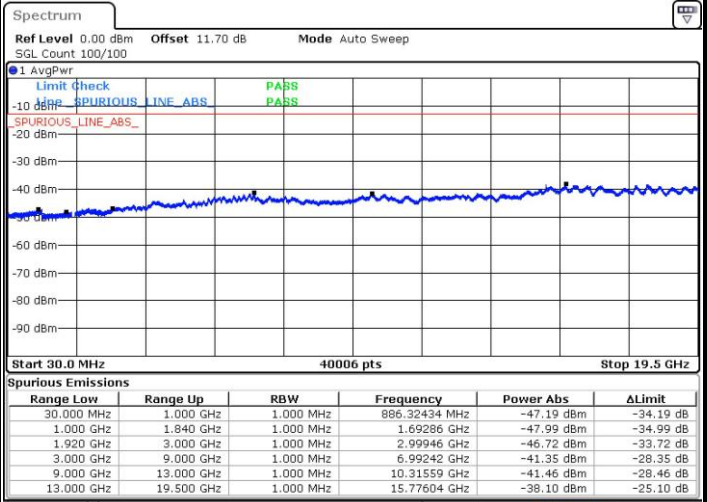
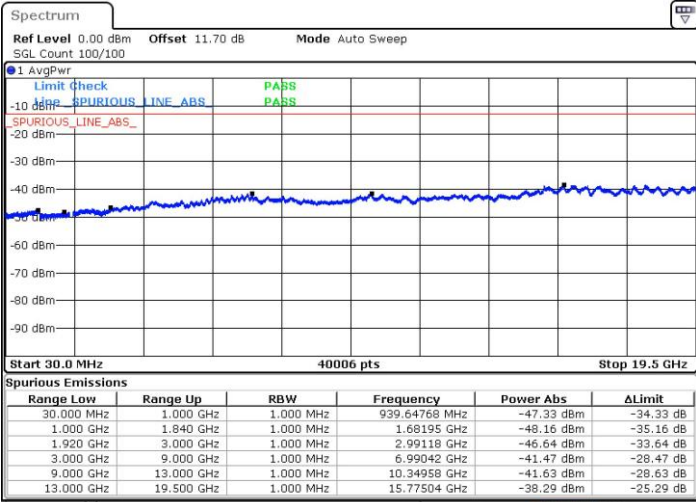


Date: 20 FEB 2017 10:28:51

Date: 20 FEB 2017 10:29:45

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 FEB 2017 10:35:58

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

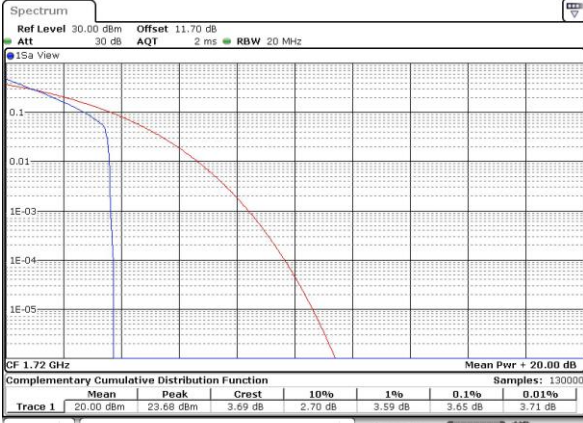
Peak-to-Average Ratio

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



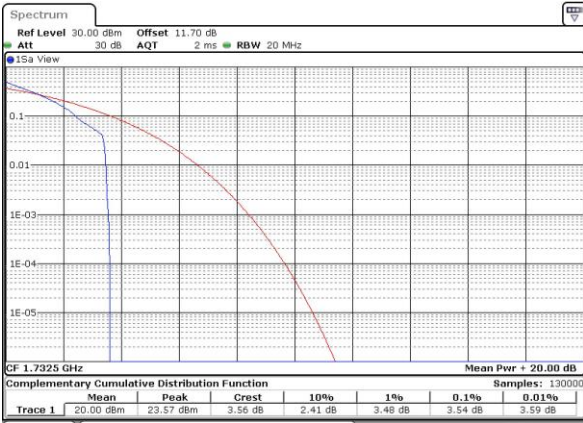
Date: 20 FEB 2017 14:00:05

Lowest Channel / Full RB



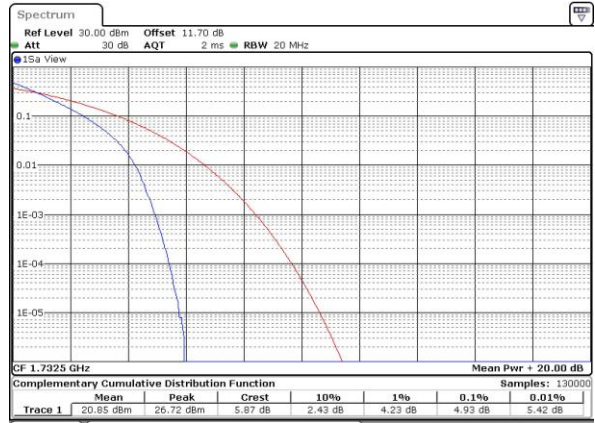
Date: 20 FEB 2017 14:00:19

Middle Channel / 1RB



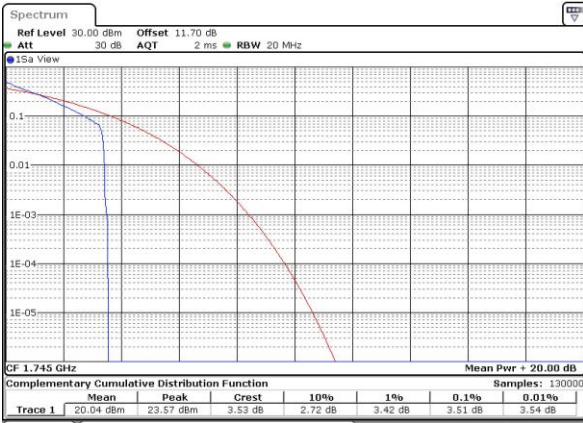
Date: 20 FEB 2017 14:00:54

Middle Channel / Full RB



Date: 20 FEB 2017 14:03:15

Highest Channel / 1RB



Date: 20 FEB 2017 14:03:25

Highest Channel / Full RB

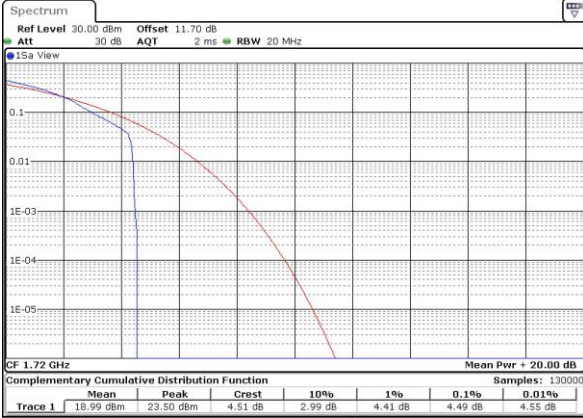


Date: 20 FEB 2017 14:03:40



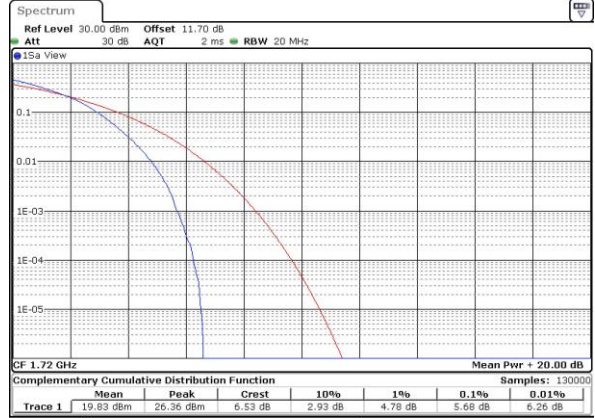
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 20 FEB 2017 13:58:54

Lowest Channel / Full RB



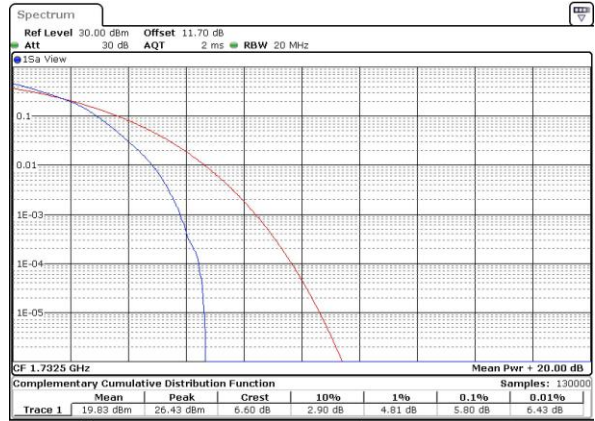
Date: 20 FEB 2017 13:59:04

Middle Channel / 1RB



Date: 20 FEB 2017 13:59:14

Middle Channel / Full RB



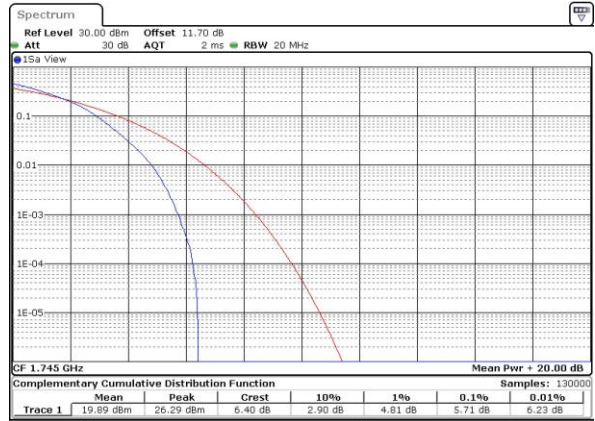
Date: 20 FEB 2017 13:59:31

Highest Channel / 1RB



Date: 20 FEB 2017 13:59:45

Highest Channel / Full RB



Date: 20 FEB 2017 13:59:56



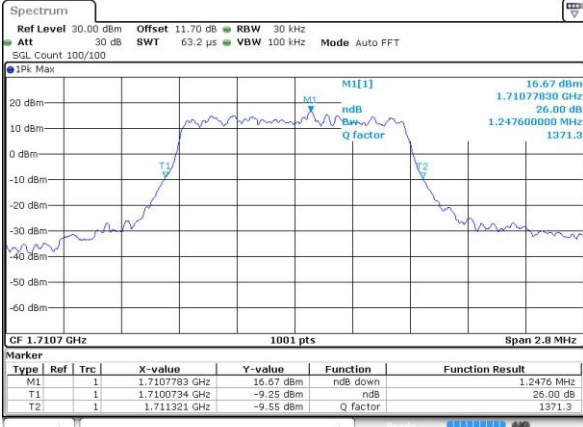
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
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



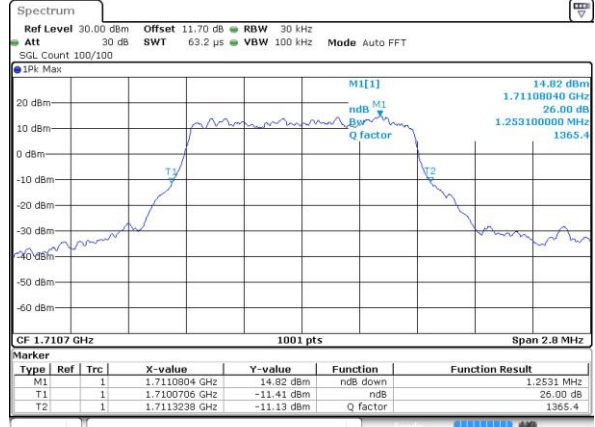
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



Date: 20 FEB 2017 13:39:13

Lowest Channel / 1.4MHz / 16QAM



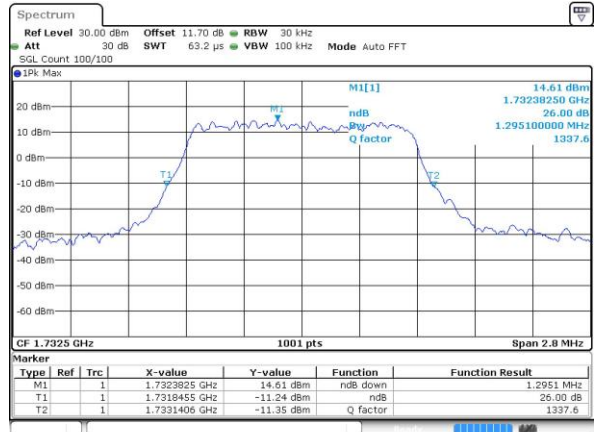
Date: 20 FEB 2017 13:39:23

Middle Channel / 1.4MHz / QPSK



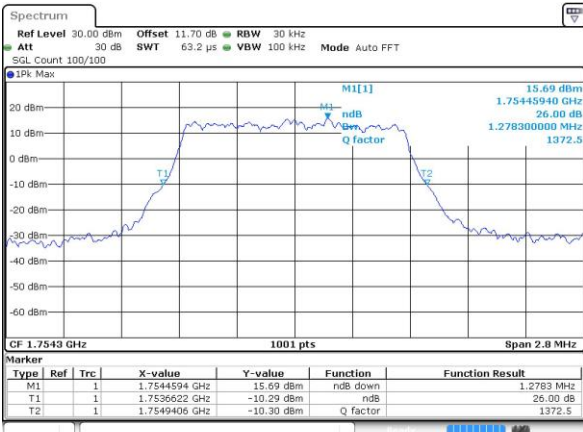
Date: 20 FEB 2017 13:48:19

Middle Channel / 1.4MHz / 16QAM



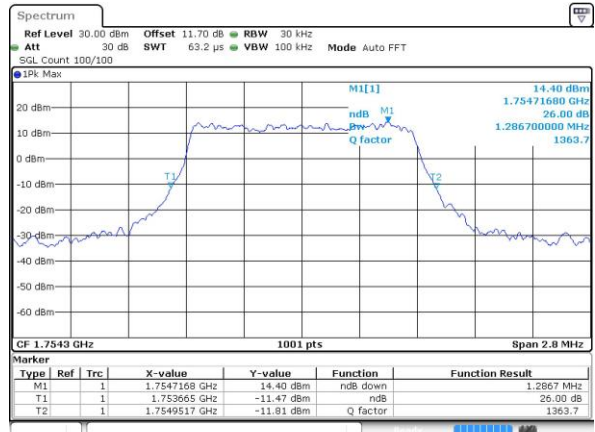
Date: 20 FEB 2017 13:48:30

Highest Channel / 1.4MHz / QPSK



Date: 20 FEB 2017 13:48:50

Highest Channel / 1.4MHz / 16QAM

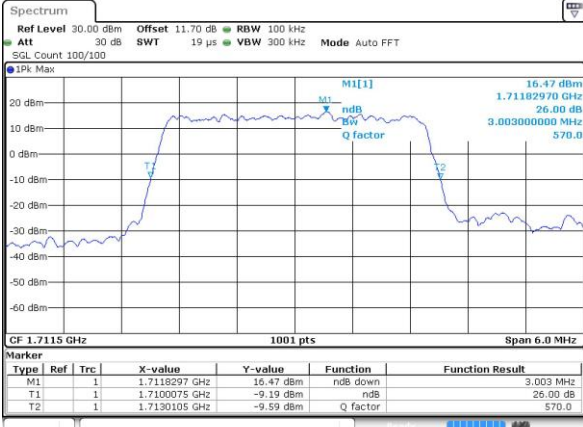


Date: 20 FEB 2017 13:49:00



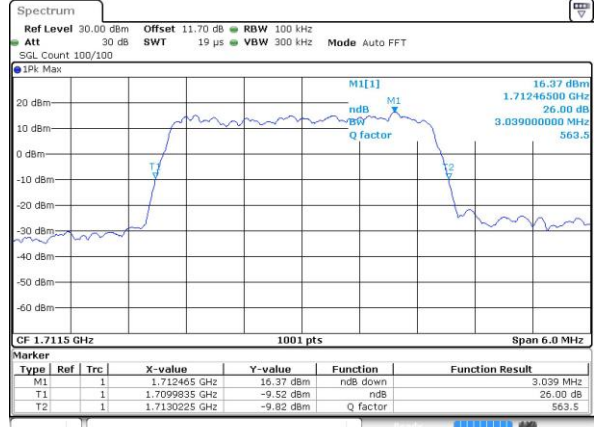
LTE Band 4

Lowest Channel / 3MHz / QPSK



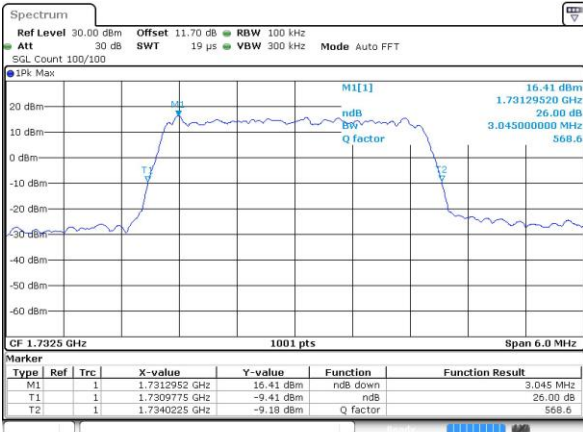
Date: 20 FEB 2017 11:04:39

Lowest Channel / 3MHz / 16QAM



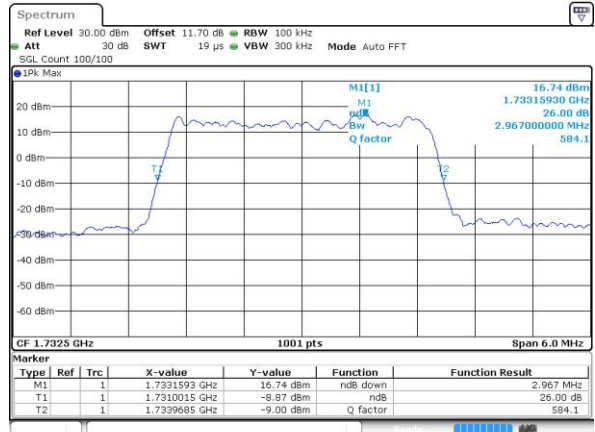
Date: 20 FEB 2017 11:04:49

Middle Channel / 3MHz / QPSK



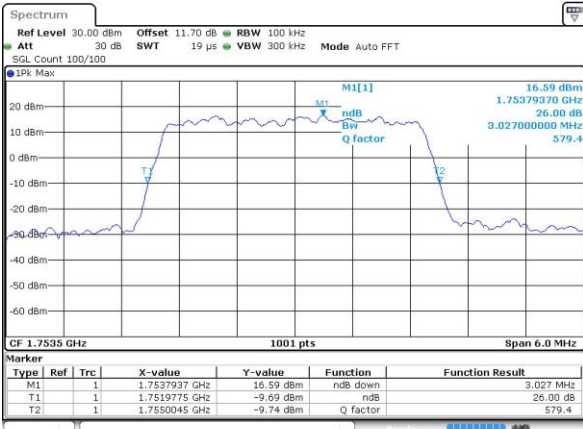
Date: 20 FEB 2017 11:11:48

Middle Channel / 3MHz / 16QAM



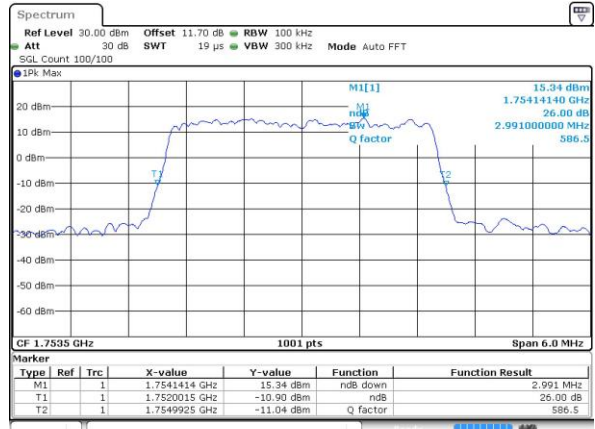
Date: 20 FEB 2017 11:11:56

Highest Channel / 3MHz / QPSK



Date: 20 FEB 2017 11:14:16

Highest Channel / 3MHz / 16QAM

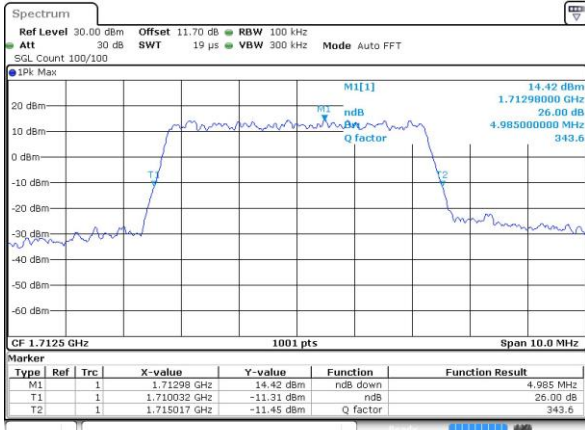


Date: 20 FEB 2017 11:14:26



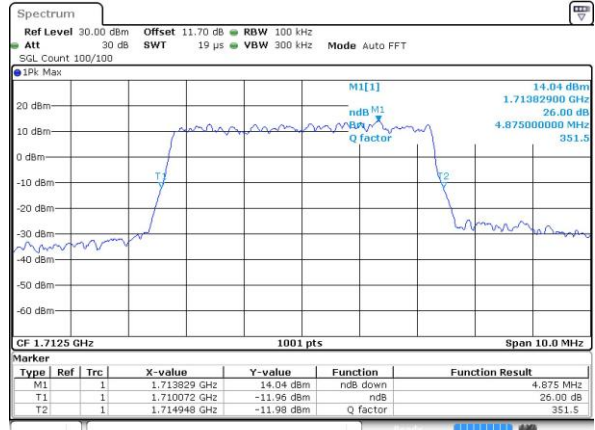
LTE Band 4

Lowest Channel / 5MHz / QPSK



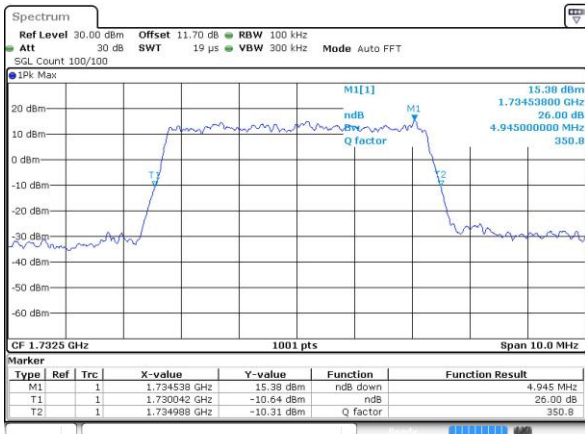
Date: 20 FEB 2017 11:21:23

Lowest Channel / 5MHz / 16QAM



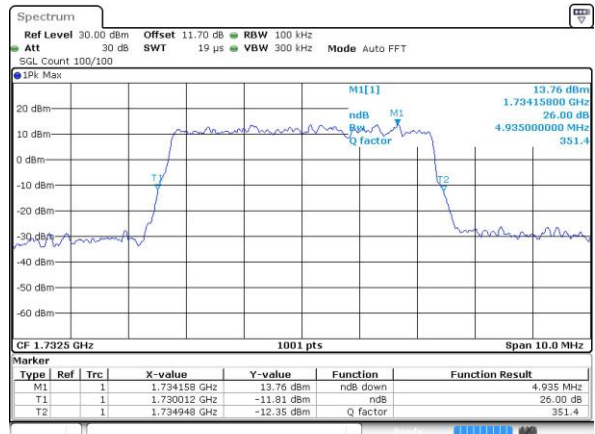
Date: 20 FEB 2017 11:21:33

Middle Channel / 5MHz / QPSK



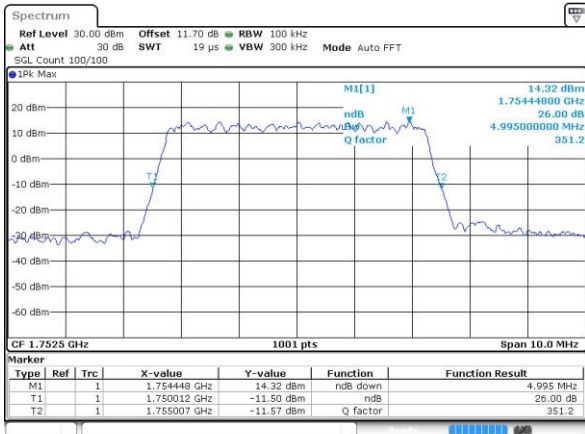
Date: 20 FEB 2017 11:28:29

Middle Channel / 5MHz / 16QAM



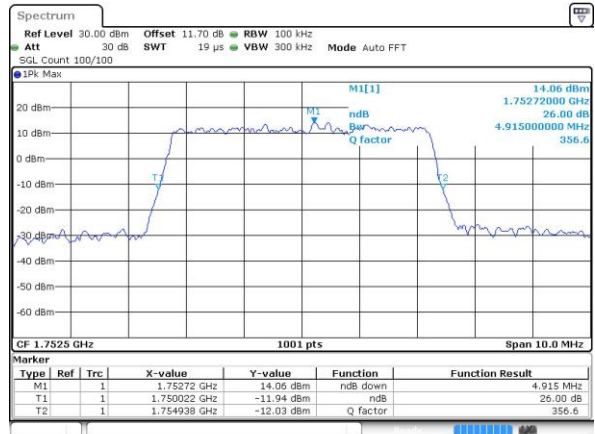
Date: 20 FEB 2017 11:28:40

Highest Channel / 5MHz / QPSK



Date: 20 FEB 2017 11:31:00

Highest Channel / 5MHz / 16QAM

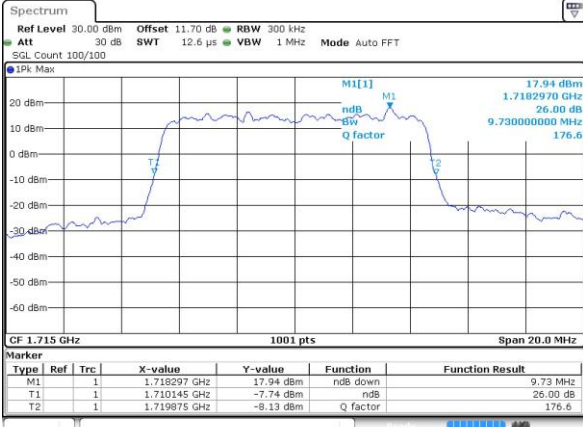


Date: 20 FEB 2017 11:31:10



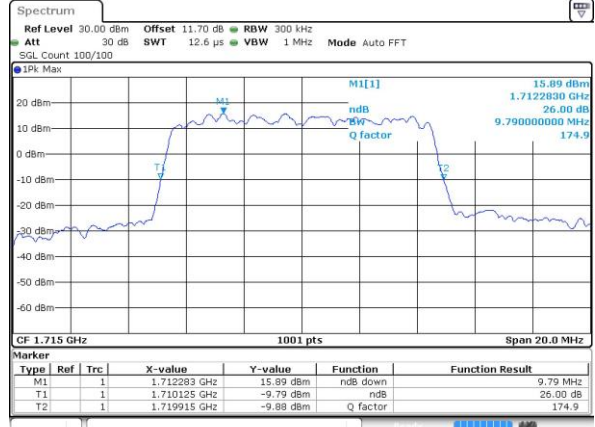
LTE Band 4

Lowest Channel / 10MHz / QPSK



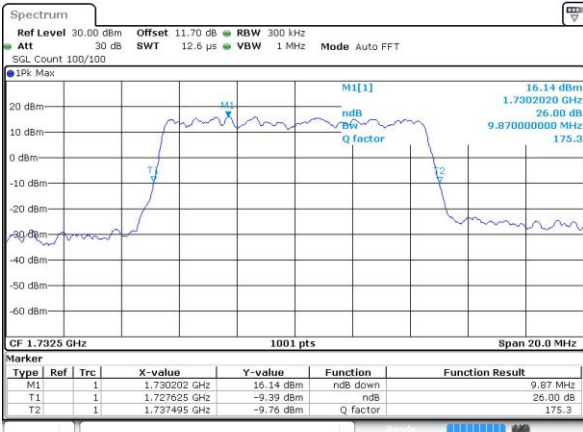
Date: 20 FEB 2017 11:38:07

Lowest Channel / 10MHz / 16QAM



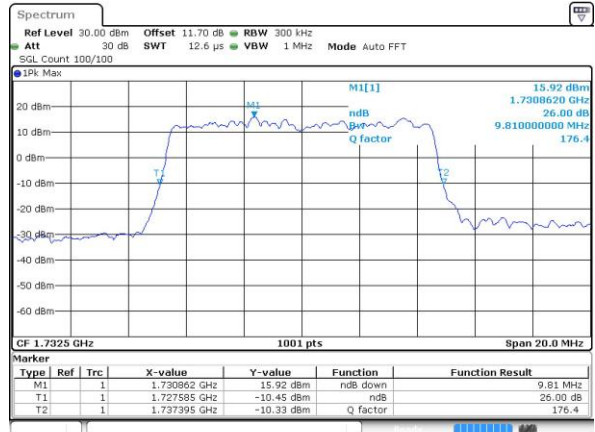
Date: 20 FEB 2017 11:38:17

Middle Channel / 10MHz / QPSK



Date: 20 FEB 2017 11:45:13

Middle Channel / 10MHz / 16QAM



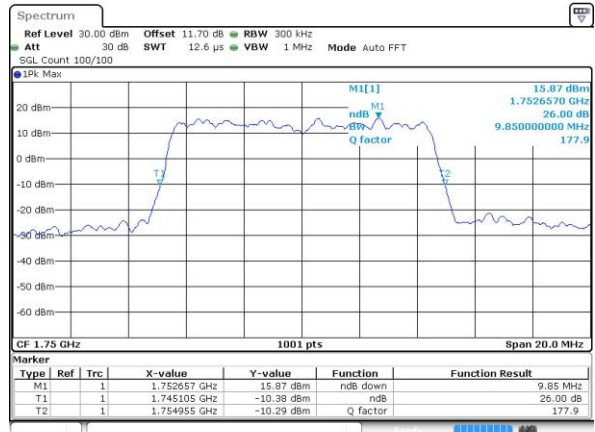
Date: 20 FEB 2017 11:45:24

Highest Channel / 10MHz / QPSK



Date: 20 FEB 2017 11:47:44

Highest Channel / 10MHz / 16QAM

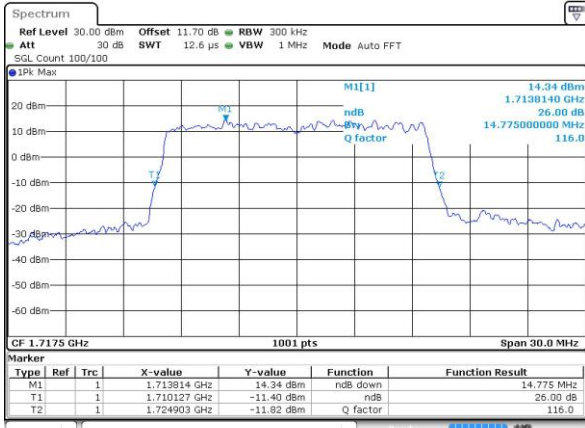


Date: 20 FEB 2017 11:47:54



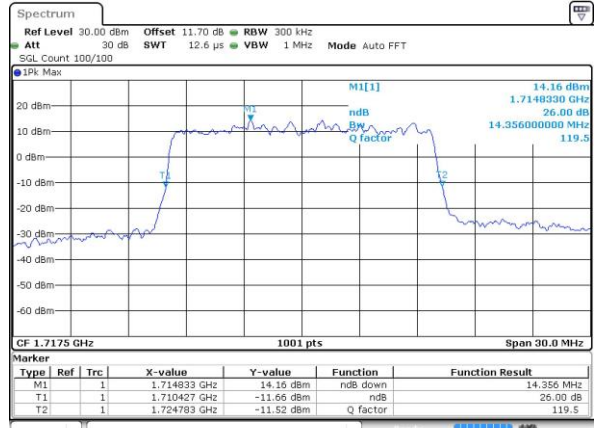
LTE Band 4

Lowest Channel / 15MHz / QPSK



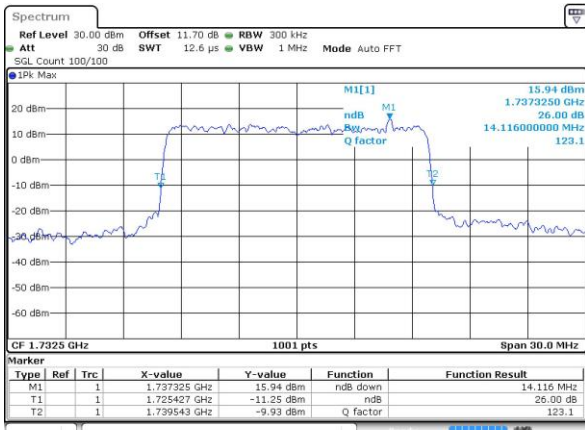
Date: 20 FEB 2017 11:54:51

Lowest Channel / 15MHz / 16QAM



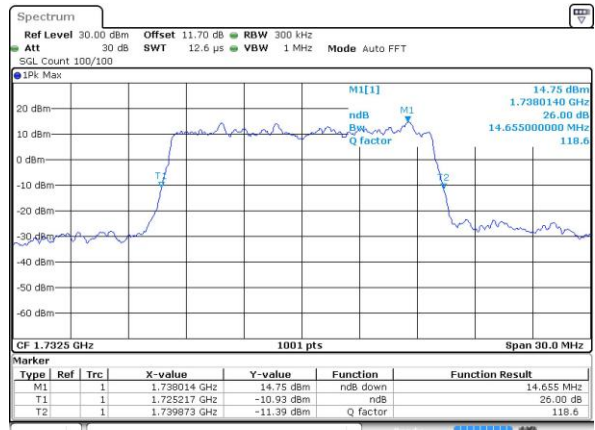
Date: 20 FEB 2017 11:55:01

Middle Channel / 15MHz / QPSK



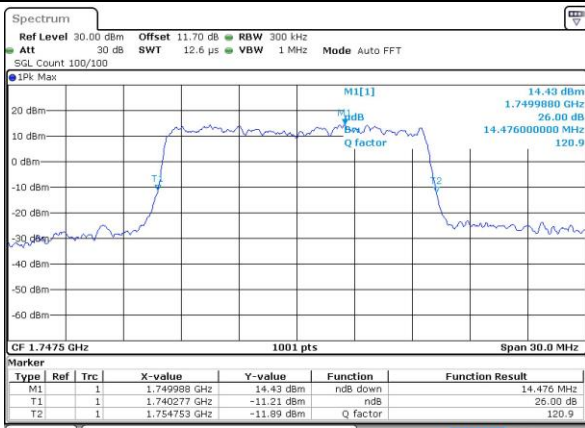
Date: 20 FEB 2017 12:01:58

Middle Channel / 15MHz / 16QAM



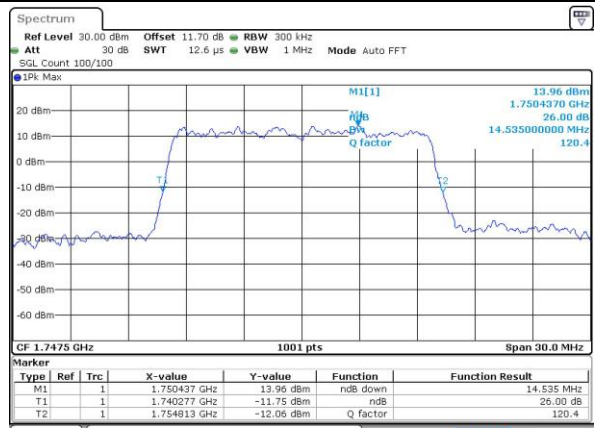
Date: 20 FEB 2017 12:02:08

Highest Channel / 15MHz / QPSK



Date: 20 FEB 2017 12:04:28

Highest Channel / 15MHz / 16QAM

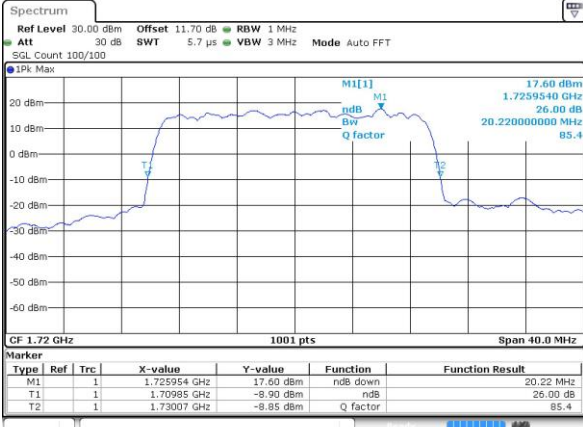


Date: 20 FEB 2017 12:04:39



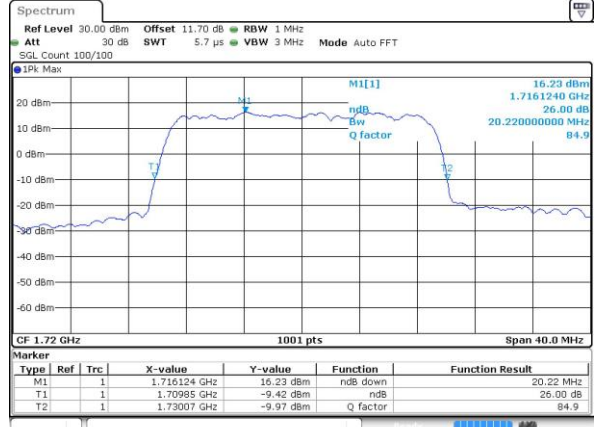
LTE Band 4

Lowest Channel / 20MHz / QPSK



Date: 20 FEB 2017 12:11:35

Lowest Channel / 20MHz / 16QAM



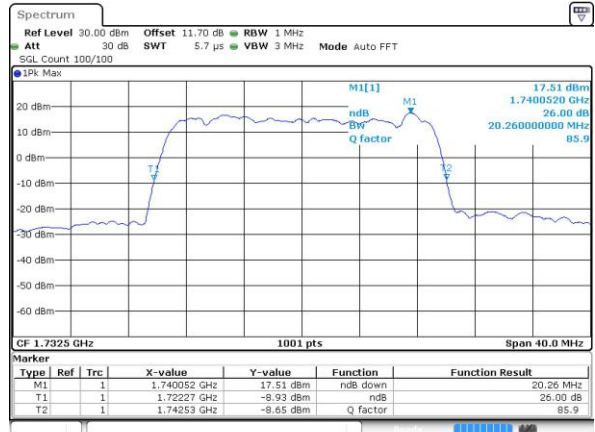
Date: 20 FEB 2017 12:11:46

Middle Channel / 20MHz / QPSK



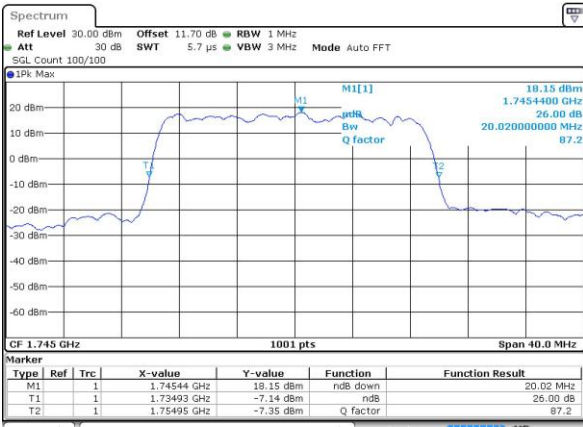
Date: 20 FEB 2017 12:18:42

Middle Channel / 20MHz / 16QAM



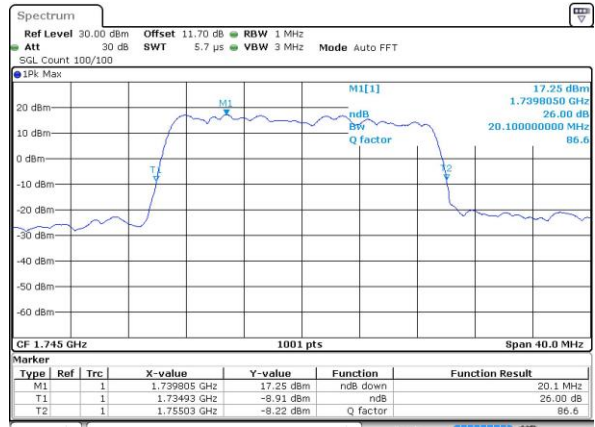
Date: 20 FEB 2017 12:18:52

Highest Channel / 20MHz / QPSK



Date: 20 FEB 2017 12:21:12

Highest Channel / 20MHz / 16QAM



Date: 20 FEB 2017 12:21:23



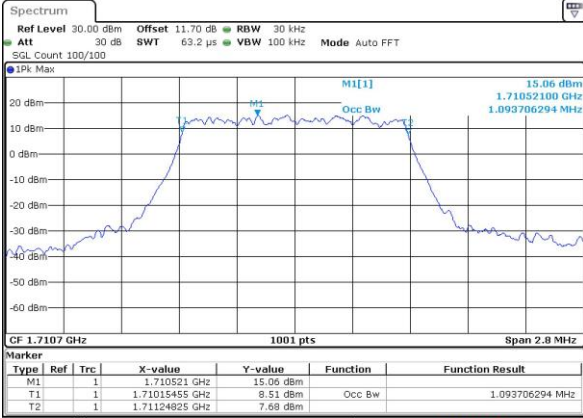
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
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



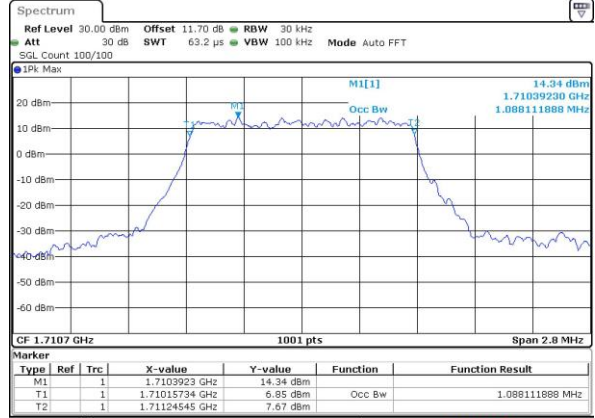
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



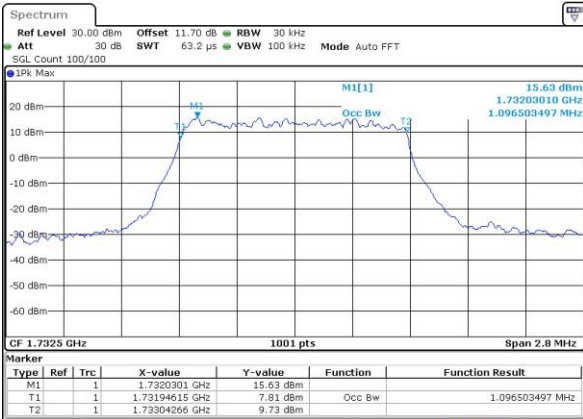
Date: 20 FEB 2017 13:38:52

Lowest Channel / 1.4MHz / 16QAM



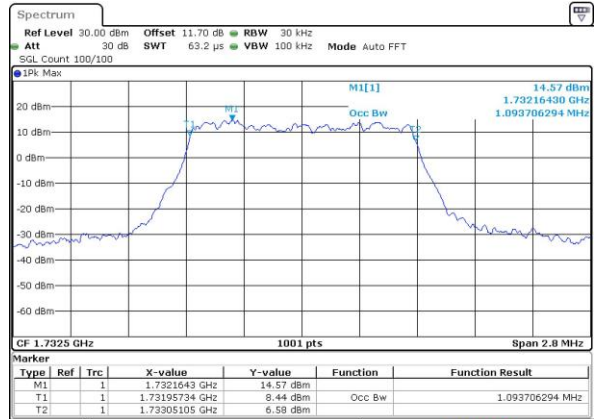
Date: 20 FEB 2017 13:39:02

Middle Channel / 1.4MHz / QPSK



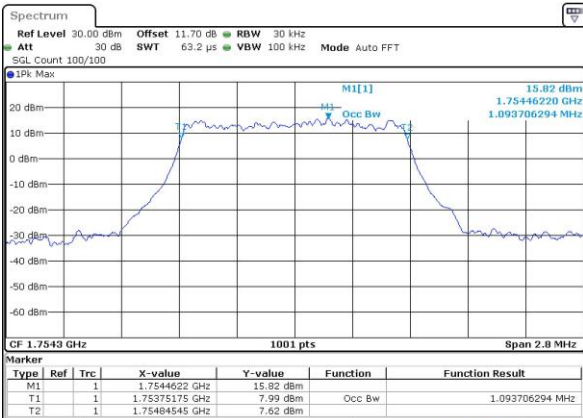
Date: 20 FEB 2017 13:45:59

Middle Channel / 1.4MHz / 16QAM



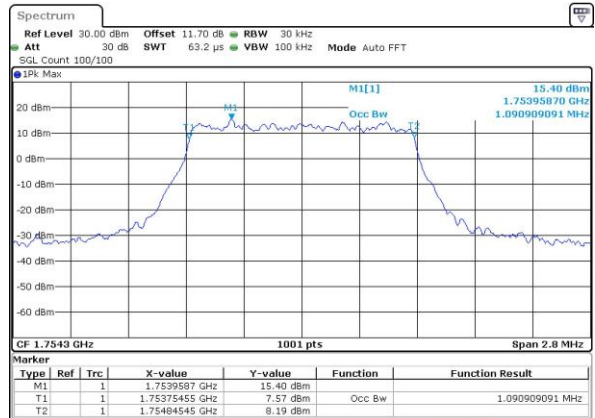
Date: 20 FEB 2017 13:46:09

Highest Channel / 1.4MHz / QPSK



Date: 20 FEB 2017 13:48:29

Highest Channel / 1.4MHz / 16QAM

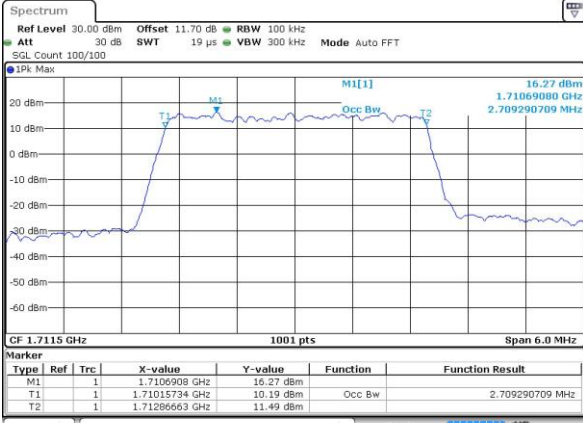


Date: 20 FEB 2017 13:48:39



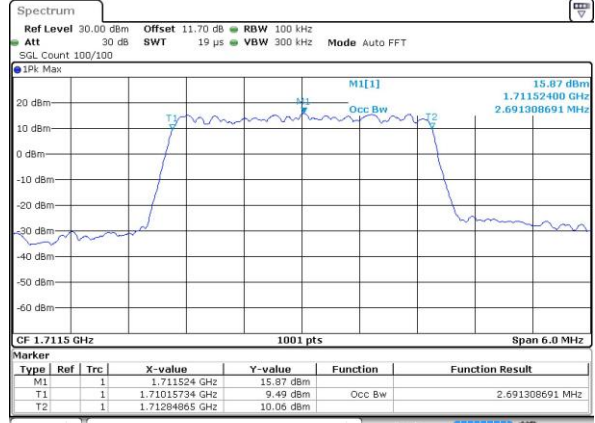
LTE Band 4

Lowest Channel / 3MHz / QPSK



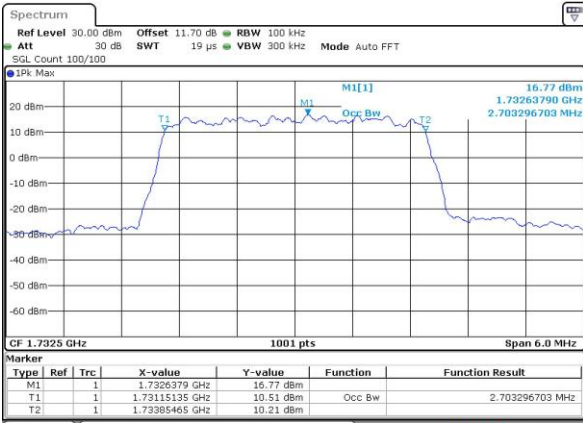
Date: 20 FEB 2017 11:04:18

Lowest Channel / 3MHz / 16QAM



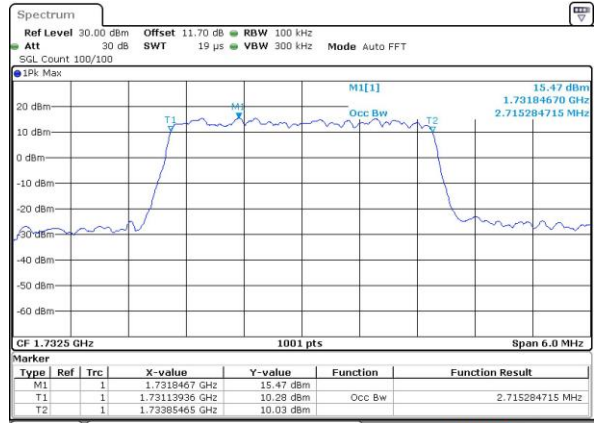
Date: 20 FEB 2017 11:04:29

Middle Channel / 3MHz / QPSK



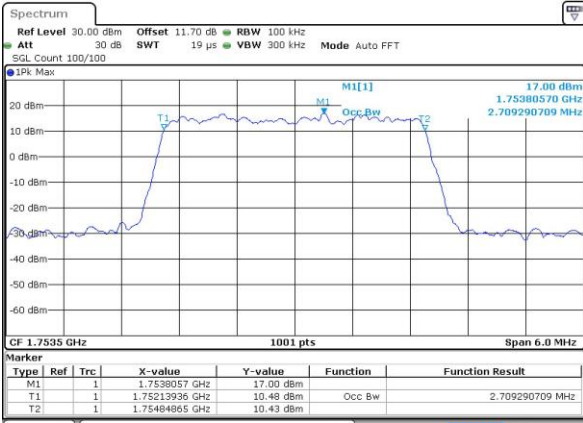
Date: 20 FEB 2017 11:11:25

Middle Channel / 3MHz / 16QAM



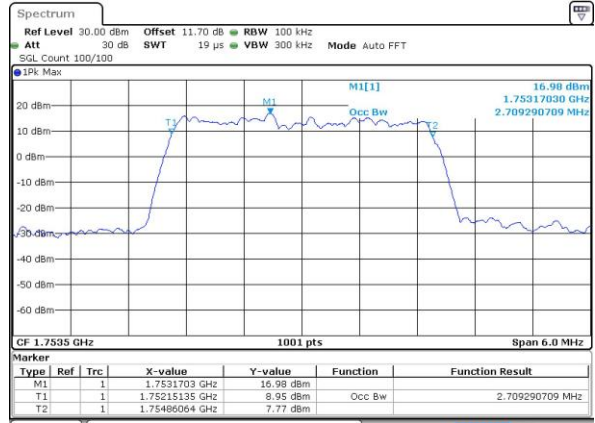
Date: 20 FEB 2017 11:11:35

Highest Channel / 3MHz / QPSK



Date: 20 FEB 2017 11:13:55

Highest Channel / 3MHz / 16QAM

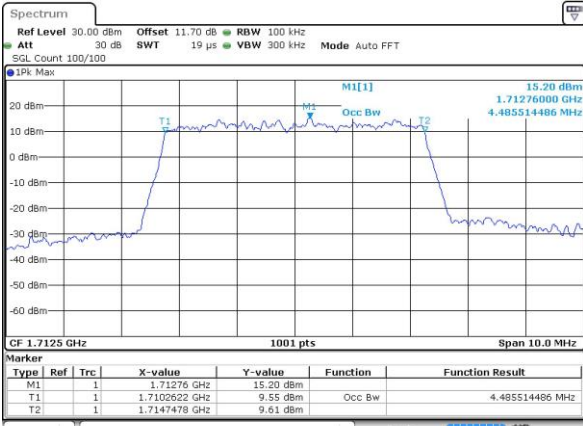


Date: 20 FEB 2017 11:14:06



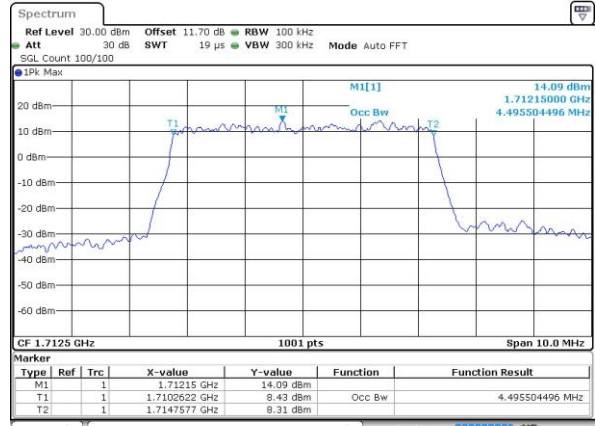
LTE Band 4

Lowest Channel / 5MHz / QPSK



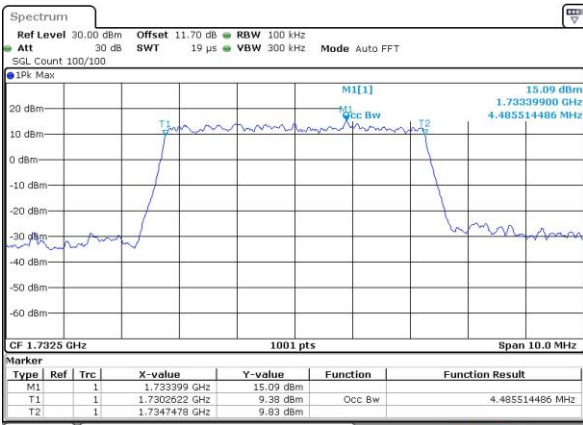
Date: 20 FEB 2017 11:21:02

Lowest Channel / 5MHz / 16QAM



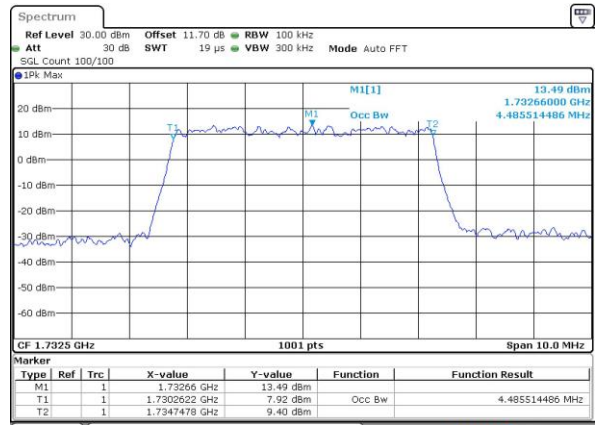
Date: 20 FEB 2017 11:21:12

Middle Channel / 5MHz / QPSK



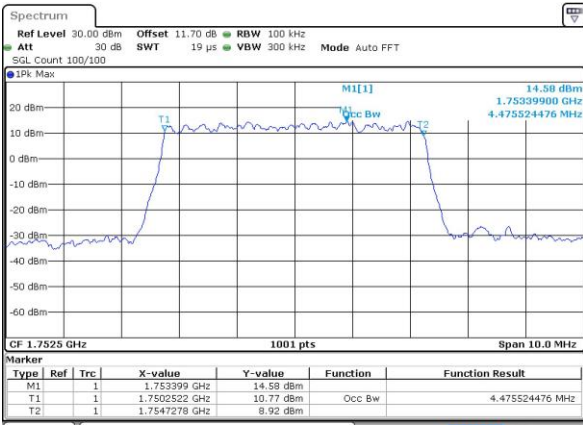
Date: 20 FEB 2017 11:28:09

Middle Channel / 5MHz / 16QAM



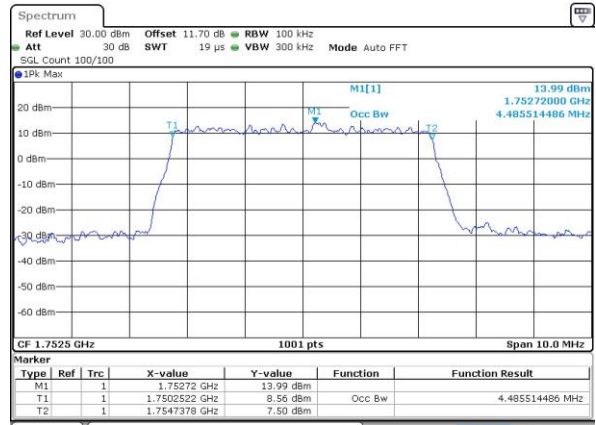
Date: 20 FEB 2017 11:28:19

Highest Channel / 5MHz / QPSK



Date: 20 FEB 2017 11:30:39

Highest Channel / 5MHz / 16QAM

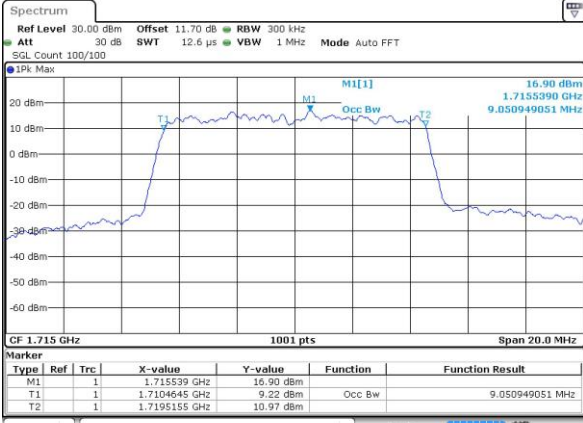


Date: 20 FEB 2017 11:30:50



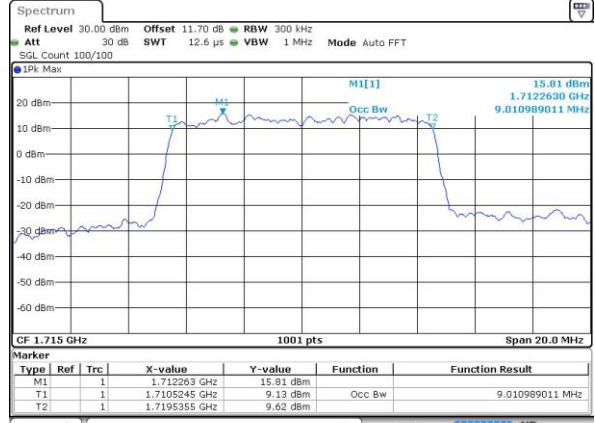
LTE Band 4

Lowest Channel / 10MHz / QPSK



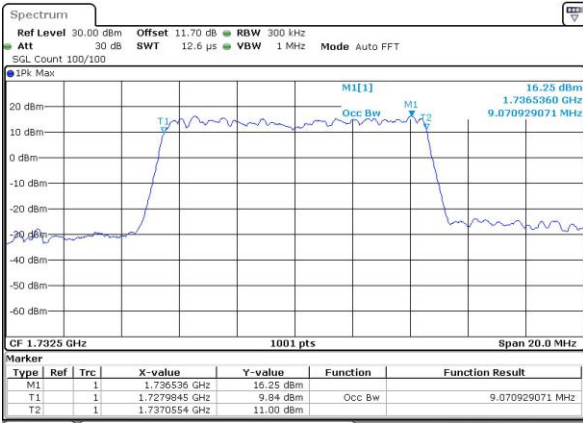
Date: 20 FEB 2017 11:37:46

Lowest Channel / 10MHz / 16QAM



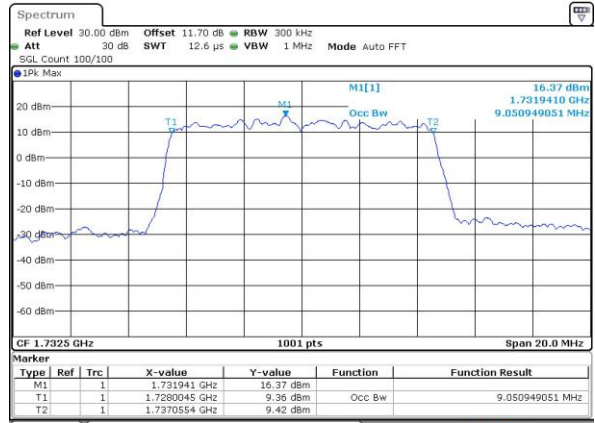
Date: 20 FEB 2017 11:37:56

Middle Channel / 10MHz / QPSK



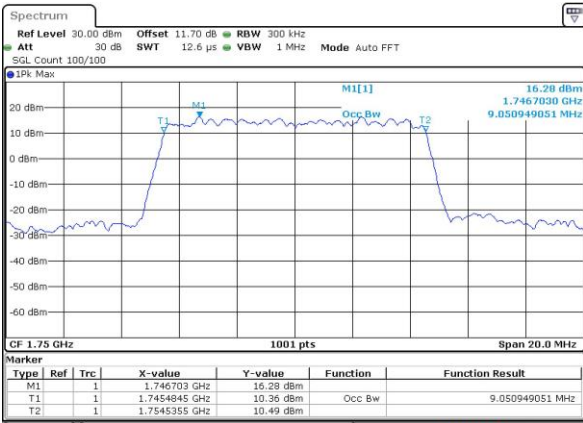
Date: 20 FEB 2017 11:44:53

Middle Channel / 10MHz / 16QAM



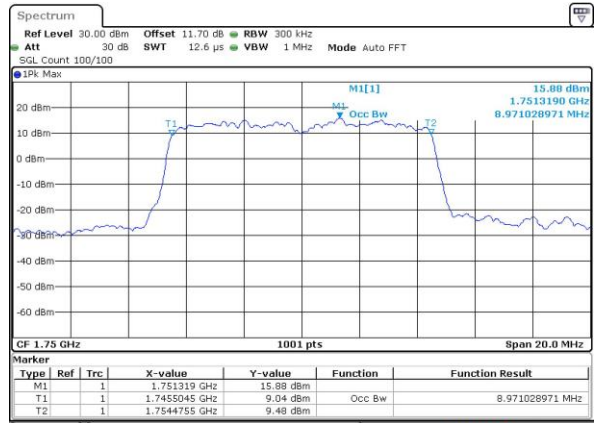
Date: 20 FEB 2017 11:45:03

Highest Channel / 10MHz / QPSK



Date: 20 FEB 2017 11:47:23

Highest Channel / 10MHz / 16QAM

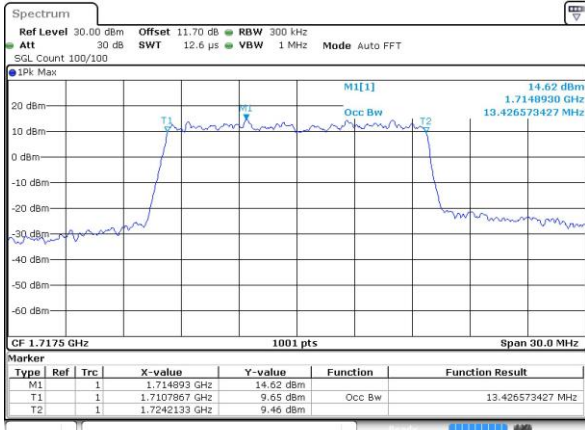


Date: 20 FEB 2017 11:47:33



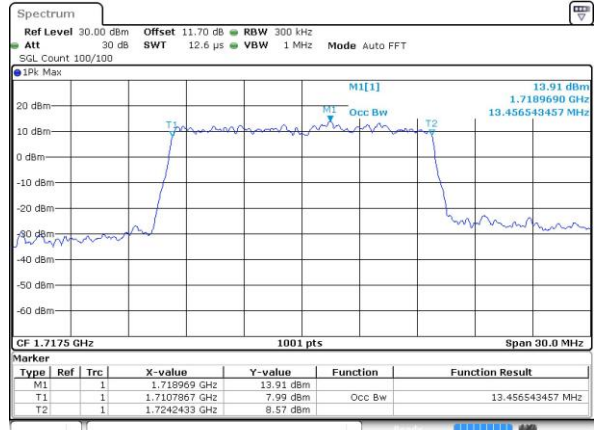
LTE Band 4

Lowest Channel / 15MHz / QPSK



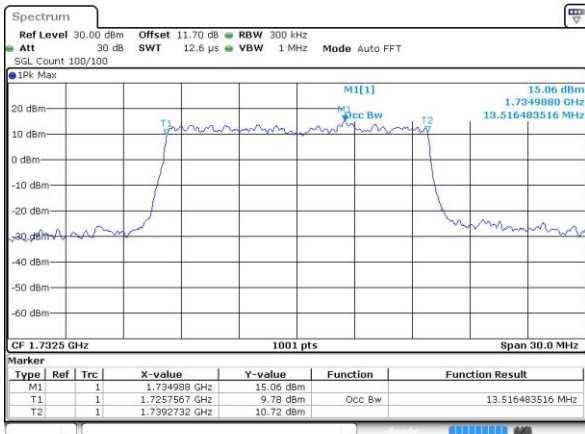
Date: 20 FEB 2017 11:54:30

Lowest Channel / 15MHz / 16QAM



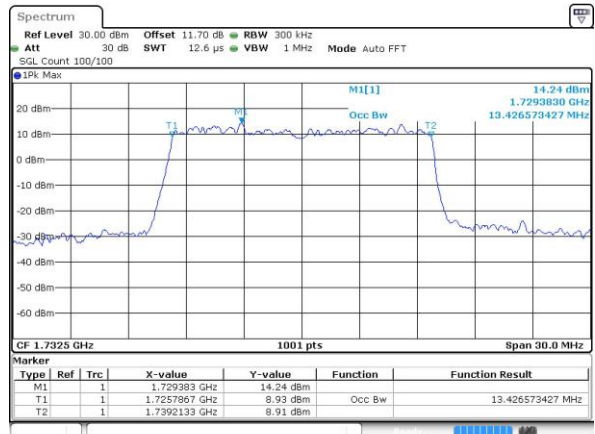
Date: 20 FEB 2017 11:54:40

Middle Channel / 15MHz / QPSK



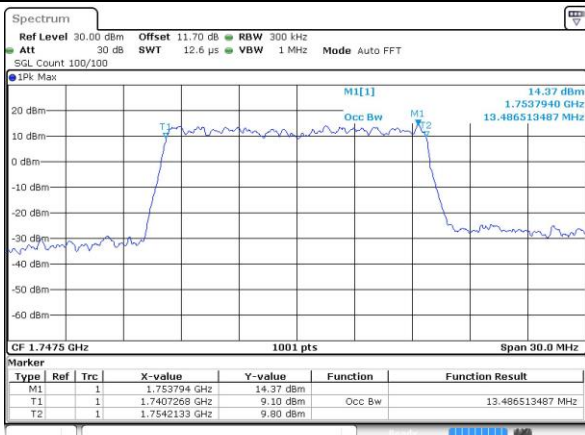
Date: 20 FEB 2017 12:01:37

Middle Channel / 15MHz / 16QAM



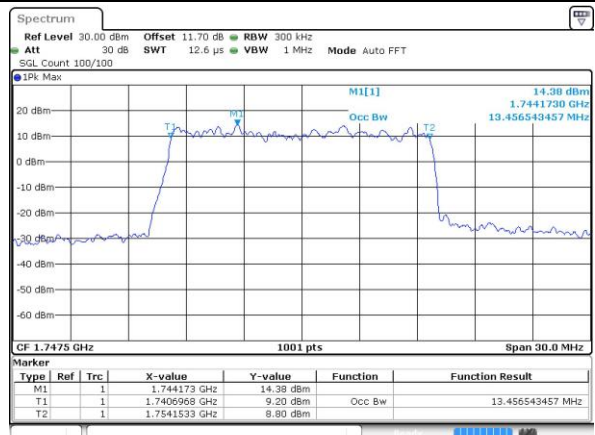
Date: 20 FEB 2017 12:01:47

Highest Channel / 15MHz / QPSK



Date: 20 FEB 2017 12:04:07

Highest Channel / 15MHz / 16QAM

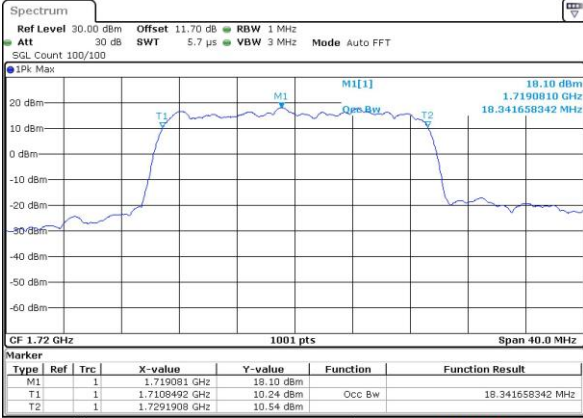


Date: 20 FEB 2017 12:04:18



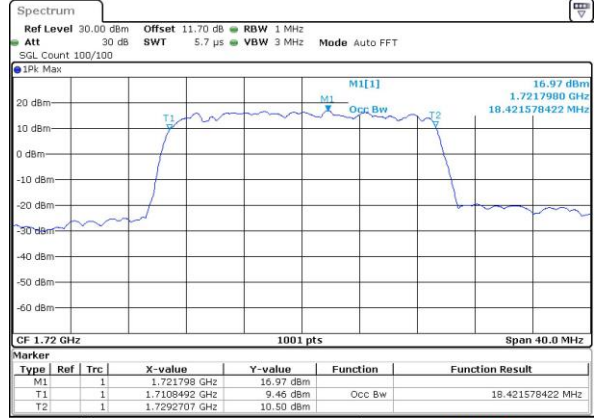
LTE Band 4

Lowest Channel / 20MHz / QPSK



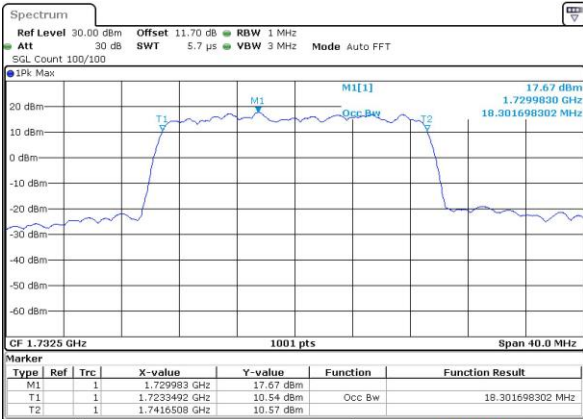
Date: 20 FEB 2017 12:11:15

Lowest Channel / 20MHz / 16QAM



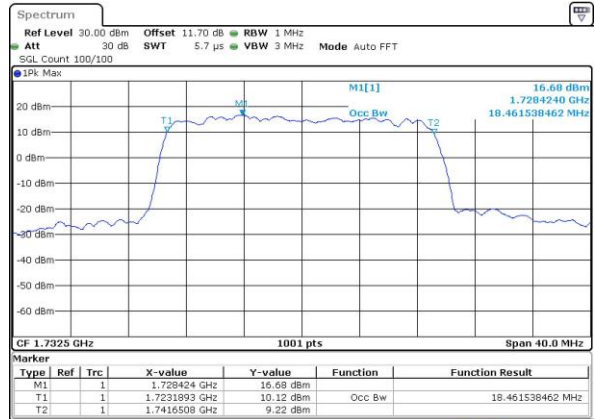
Date: 20 FEB 2017 12:11:25

Middle Channel / 20MHz / QPSK



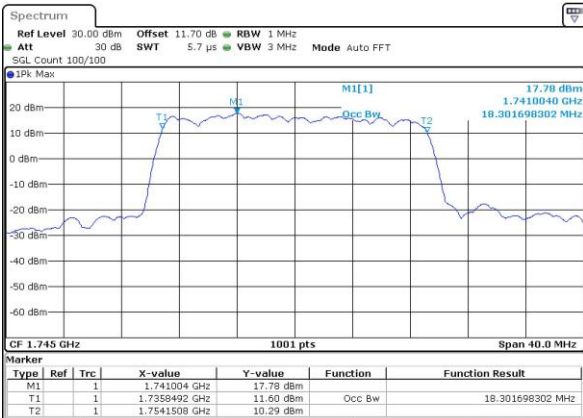
Date: 20 FEB 2017 12:18:21

Middle Channel / 20MHz / 16QAM



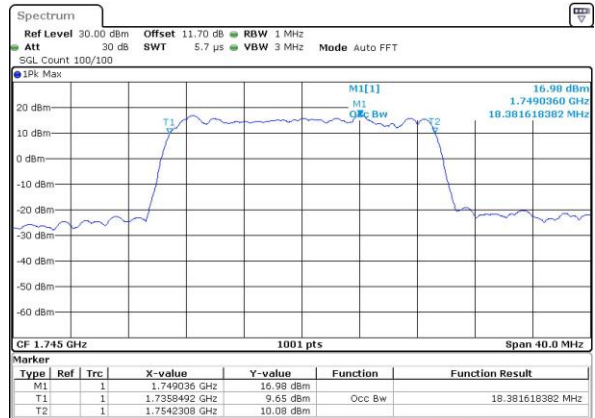
Date: 20 FEB 2017 12:18:32

Highest Channel / 20MHz / QPSK



Date: 20 FEB 2017 12:20:52

Highest Channel / 20MHz / 16QAM



Date: 20 FEB 2017 12:21:02

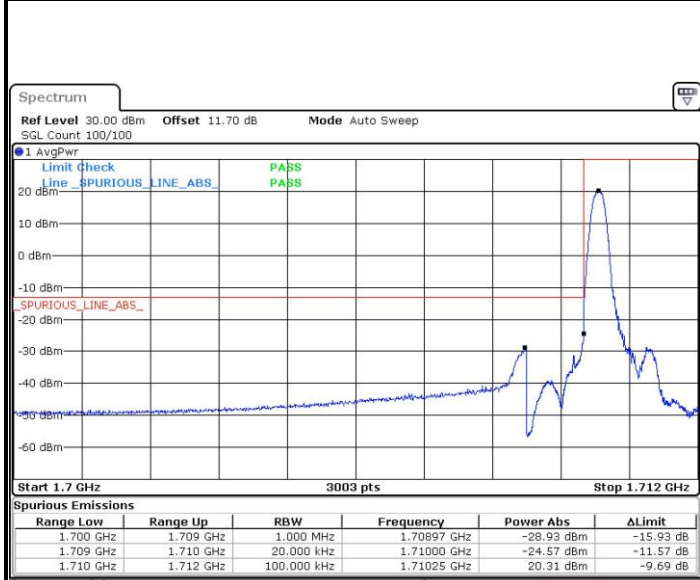


Conducted Band Edge



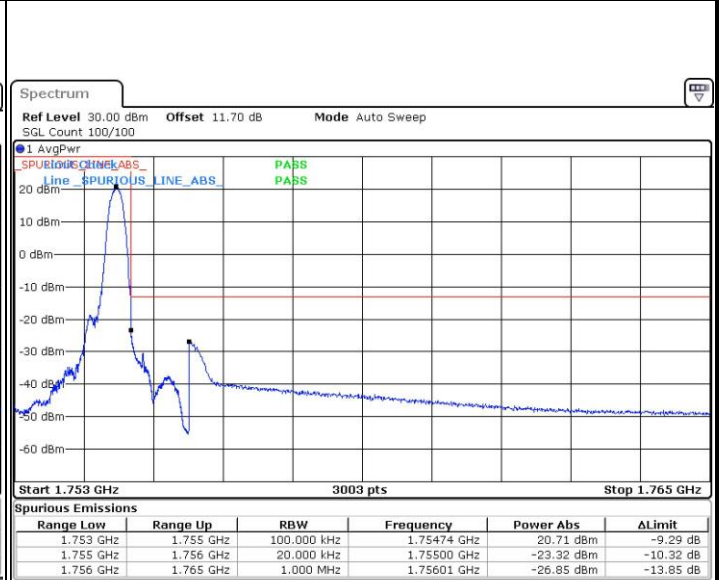
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



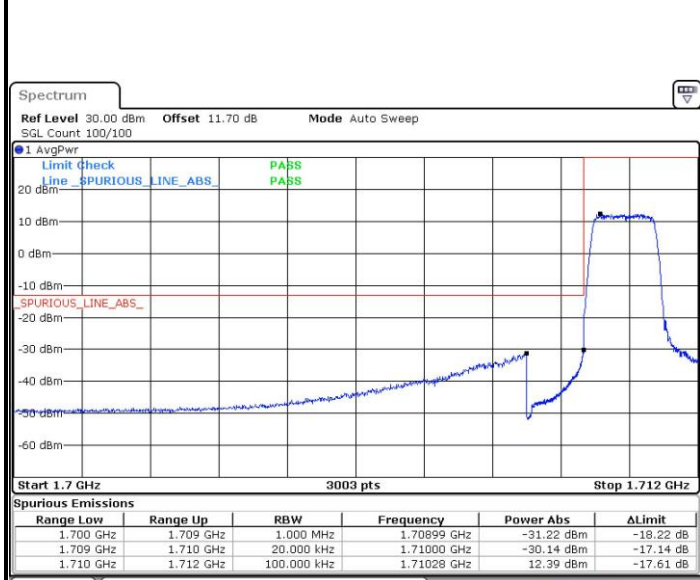
Date: 20.FEB.2017 13:40:32

Highest Band Edge / 1RB



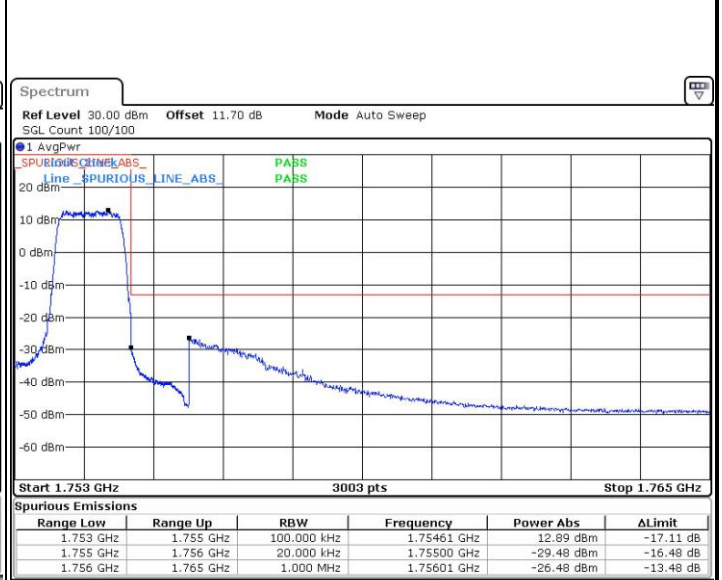
Date: 20.FEB.2017 13:50:09

Lowest Band Edge / Full RB



Date: 20.FEB.2017 13:42:50

Highest Band Edge / Full RB



Date: 20.FEB.2017 13:52:27