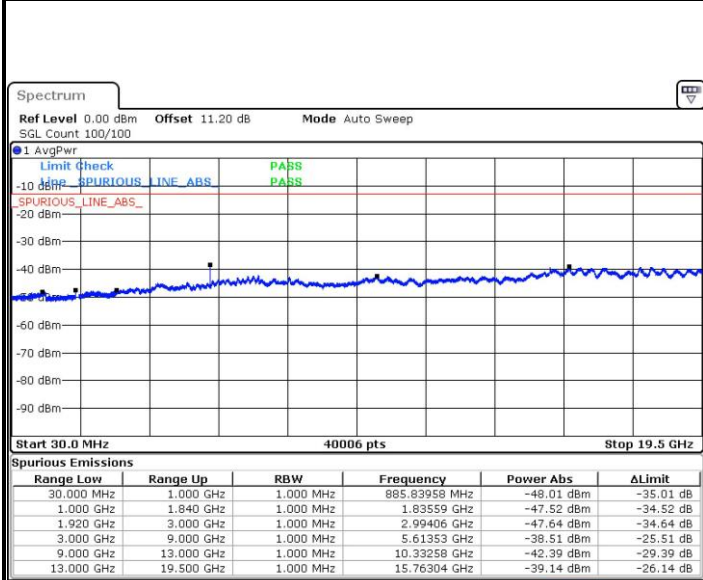




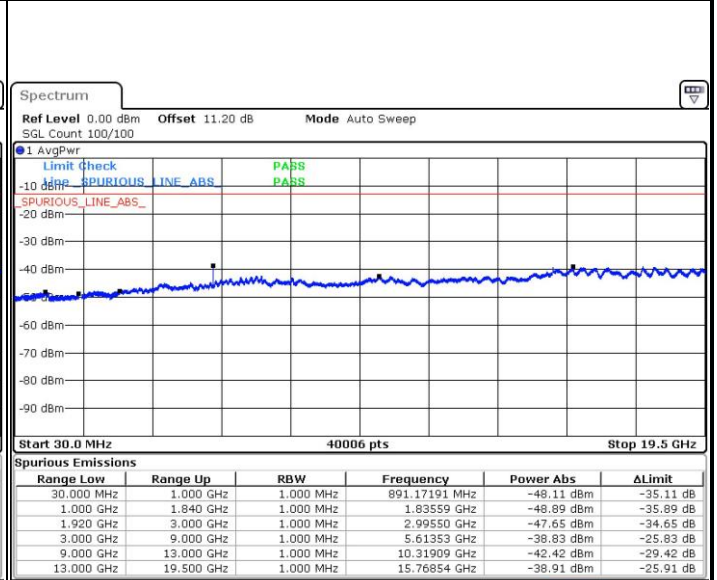
LTE Band 2 / 20MHz

Middle Channel / QPSK



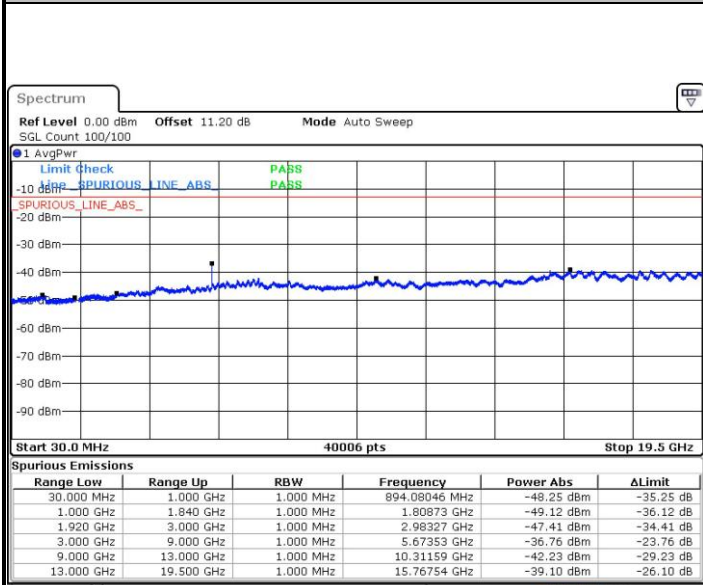
Date: 27.DEC.2016 08:35:44

Middle Channel / 16QAM



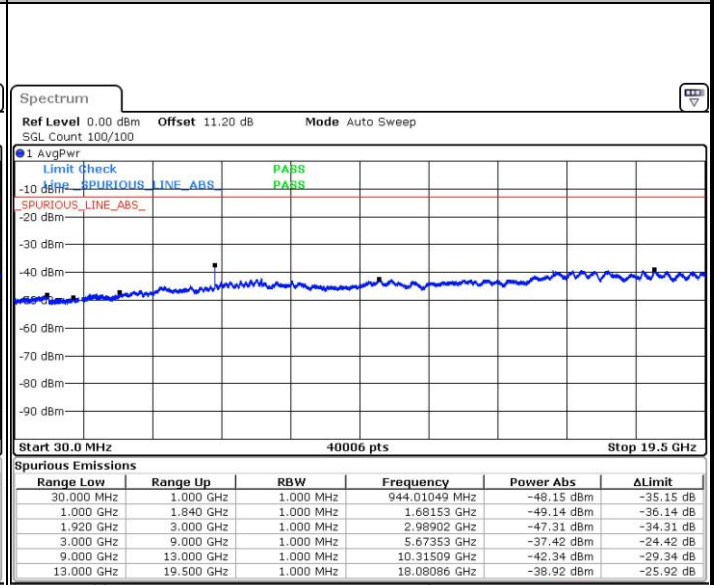
Date: 27.DEC.2016 08:36:39

Highest Channel / QPSK



Date: 27.DEC.2016 08:42:51

Highest Channel / 16QAM



Date: 27.DEC.2016 08:43:45



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	0.0148	PASS
40	Normal Voltage	0.0139	
30	Normal Voltage	0.0152	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0139	
-10	Normal Voltage	0.0146	
-20	Normal Voltage	0.0150	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =24.0 V. ; Battery End Point (BEP) =12.0 V. ; Maximum Voltage =48.0 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	4.55	4.93	6.09	6	PASS
Middle CH	4.17	5.25	5.04	6.17	
Highest CH	4.78	5.51	5.83	6.41	



LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 27 DEC 2016 11:11:48

Lowest Channel / Full RB



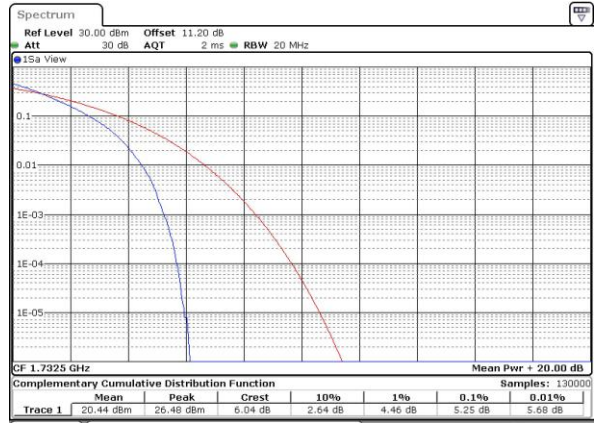
Date: 27 DEC 2016 11:11:58

Middle Channel / 1RB



Date: 27 DEC 2016 11:12:08

Middle Channel / Full RB



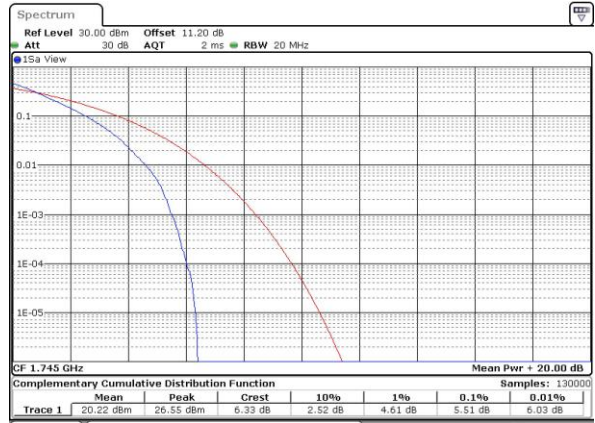
Date: 27 DEC 2016 11:12:23

Highest Channel / 1RB



Date: 27 DEC 2016 11:12:35

Highest Channel / Full RB



Date: 27 DEC 2016 11:12:45



LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 27 DEC 2016 11:10:42

Lowest Channel / Full RB



Date: 27 DEC 2016 11:10:52

Middle Channel / 1RB



Date: 27 DEC 2016 11:11:03

Middle Channel / Full RB



Date: 27 DEC 2016 11:11:15

Highest Channel / 1RB



Date: 27 DEC 2016 11:11:26

Highest Channel / Full RB



Date: 27 DEC 2016 11:11:36



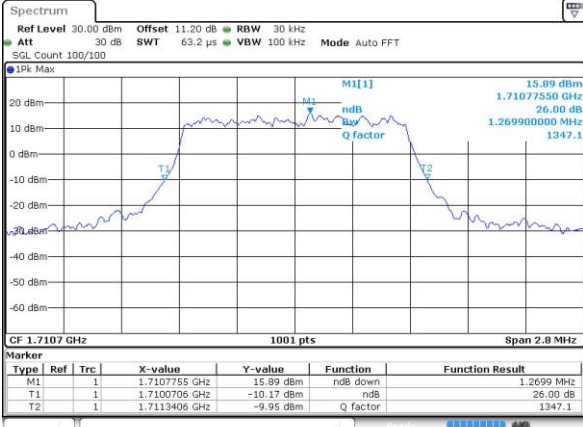
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.27	1.26	3.09	3.09	4.93	4.95	9.73	9.67	14.51	14.42	20.06	20.02
Middle CH	1.28	1.28	3.09	3.05	5.13	4.88	9.87	9.73	14.75	14.48	20.06	20.14
Highest CH	1.29	1.27	3.05	3.08	4.93	4.95	9.67	9.75	14.36	14.48	20.14	20.14



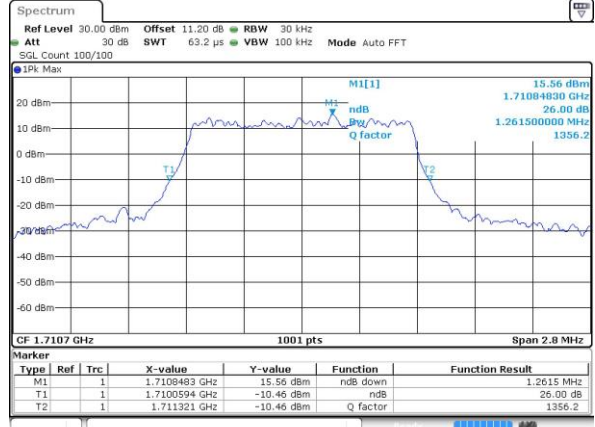
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



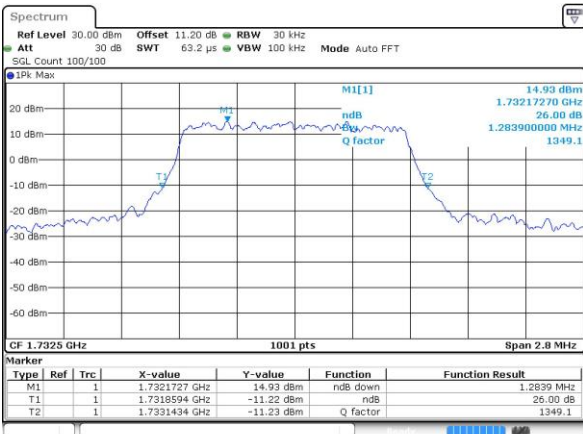
Date: 27 DEC 2016 10:46:51

Lowest Channel / 1.4MHz / 16QAM



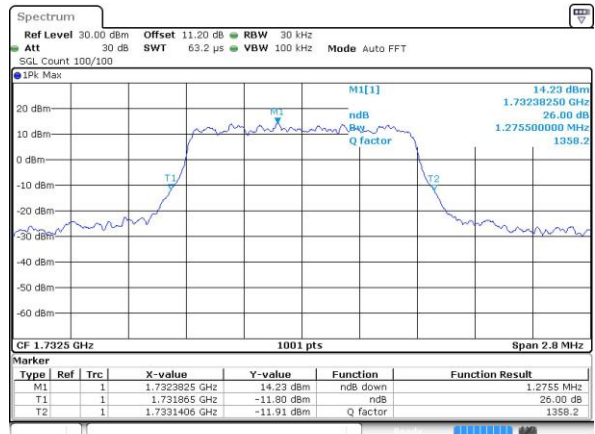
Date: 27 DEC 2016 10:47:01

Middle Channel / 1.4MHz / QPSK



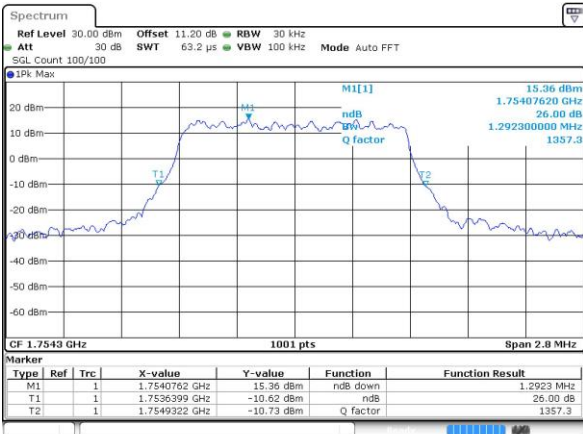
Date: 27 DEC 2016 10:53:57

Middle Channel / 1.4MHz / 16QAM



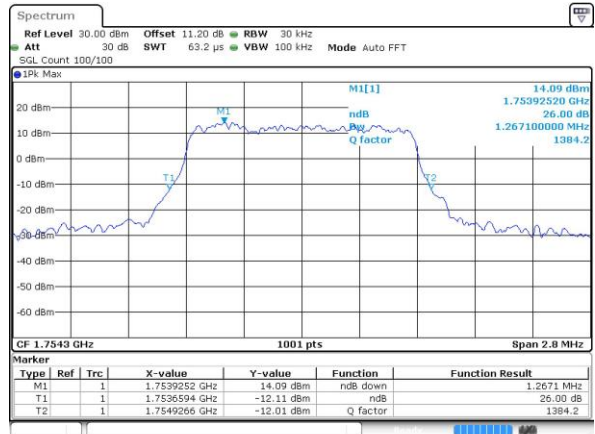
Date: 27 DEC 2016 10:54:08

Highest Channel / 1.4MHz / QPSK



Date: 27 DEC 2016 10:56:28

Highest Channel / 1.4MHz / 16QAM

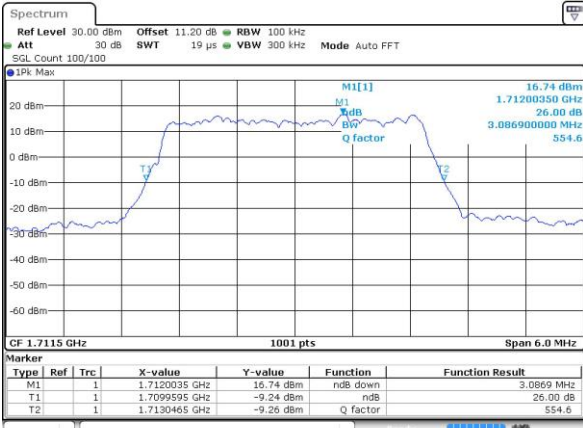


Date: 27 DEC 2016 10:56:38



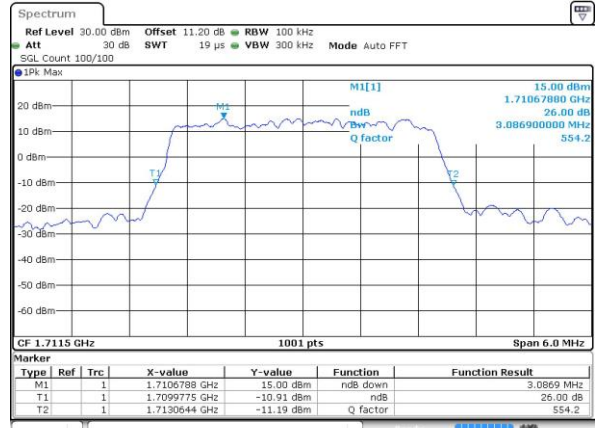
LTE Band 4

Lowest Channel / 3MHz / QPSK



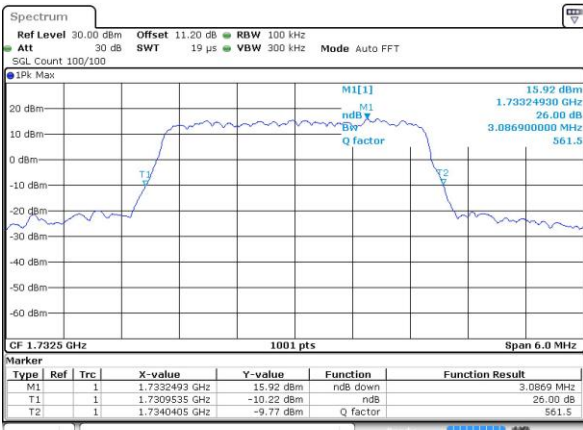
Date: 27 DEC 2016 09:19:03

Lowest Channel / 3MHz / 16QAM



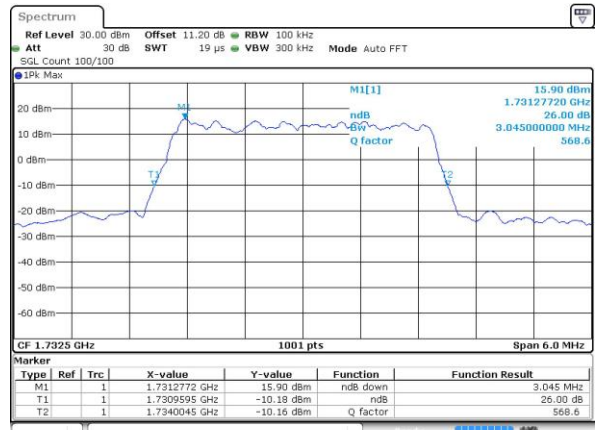
Date: 27 DEC 2016 09:19:13

Middle Channel / 3MHz / QPSK



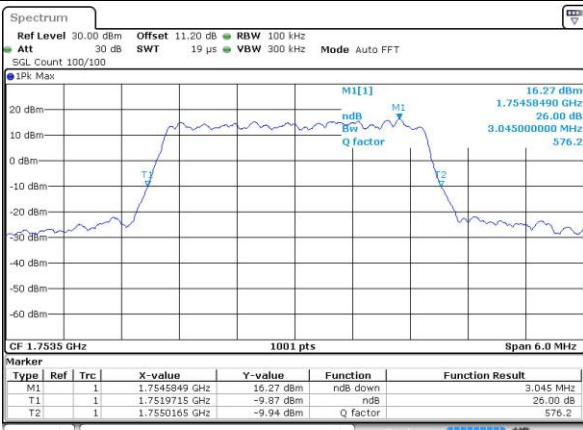
Date: 27 DEC 2016 09:26:10

Middle Channel / 3MHz / 16QAM



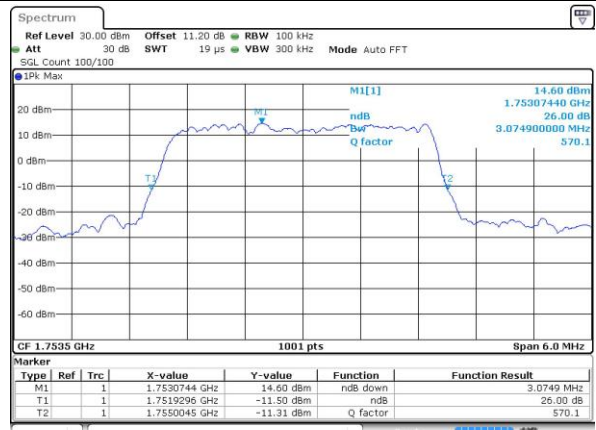
Date: 27 DEC 2016 09:26:20

Highest Channel / 3MHz / QPSK



Date: 27 DEC 2016 09:28:40

Highest Channel / 3MHz / 16QAM

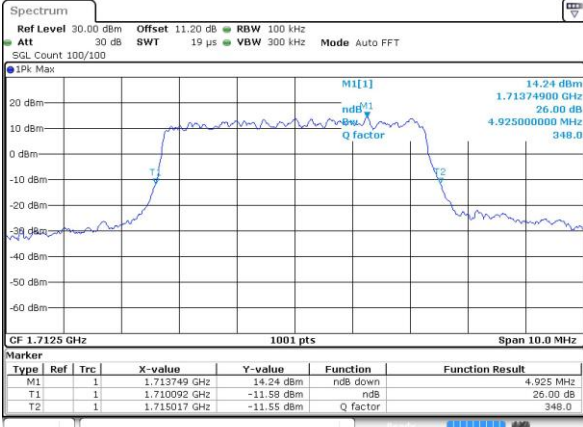


Date: 27 DEC 2016 09:28:50



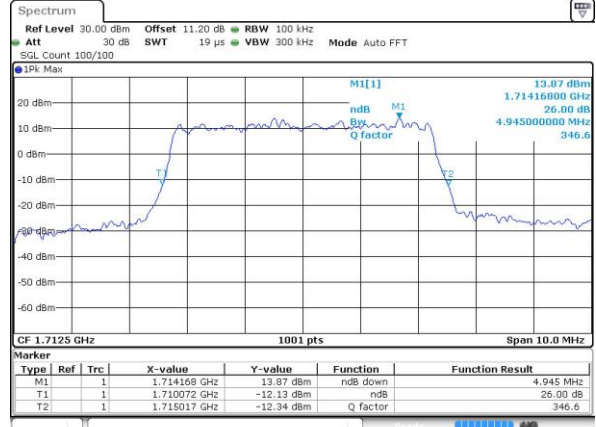
LTE Band 4

Lowest Channel / 5MHz / QPSK



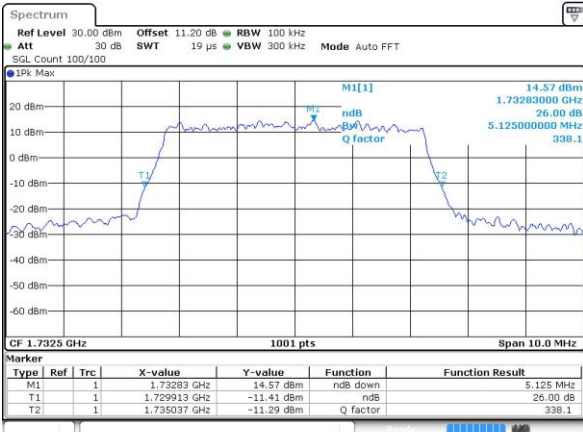
Date: 27 DEC 2016 09:35:47

Lowest Channel / 5MHz / 16QAM



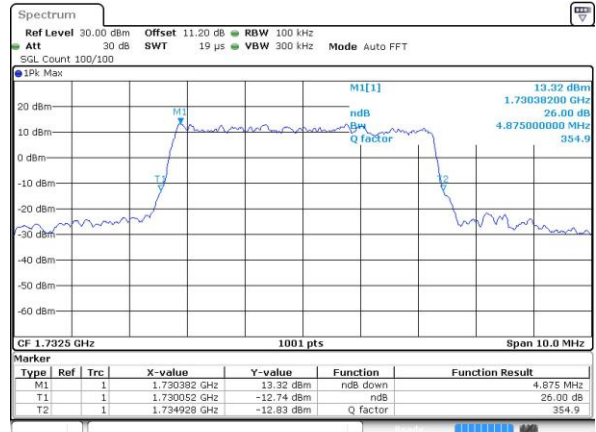
Date: 27 DEC 2016 09:35:57

Middle Channel / 5MHz / QPSK



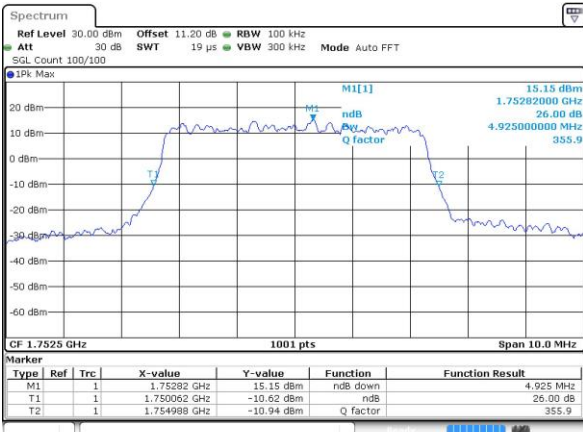
Date: 27 DEC 2016 09:42:54

Middle Channel / 5MHz / 16QAM



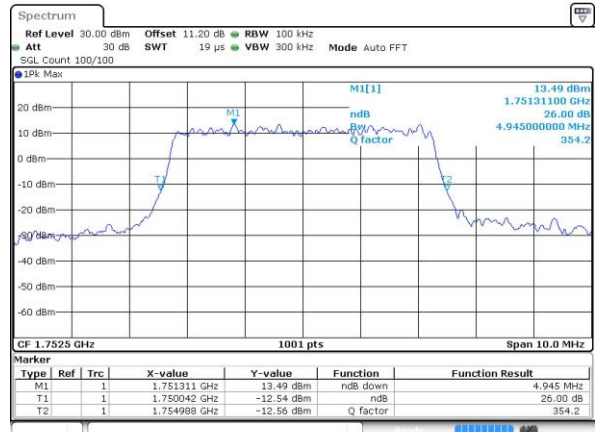
Date: 27 DEC 2016 09:43:04

Highest Channel / 5MHz / QPSK



Date: 27 DEC 2016 09:45:24

Highest Channel / 5MHz / 16QAM

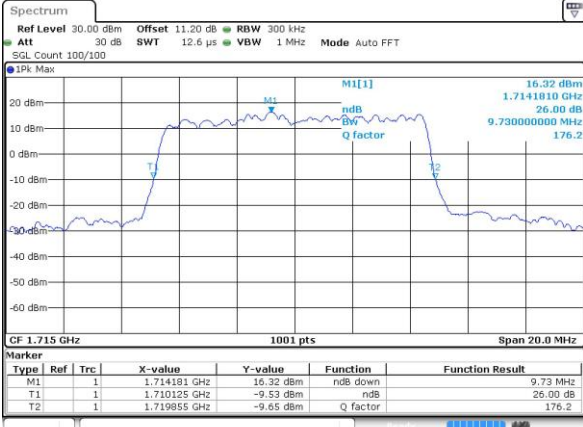


Date: 27 DEC 2016 09:45:34



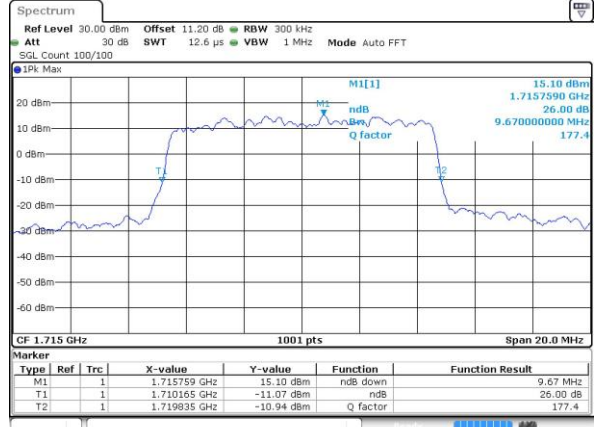
LTE Band 4

Lowest Channel / 10MHz / QPSK



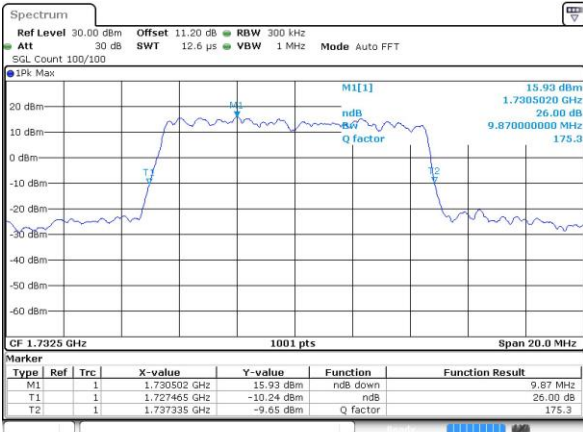
Date: 27 DEC 2016 09:52:31

Lowest Channel / 10MHz / 16QAM



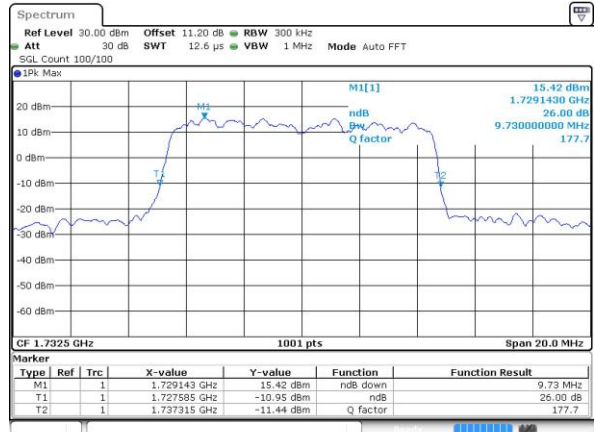
Date: 27 DEC 2016 09:52:41

Middle Channel / 10MHz / QPSK



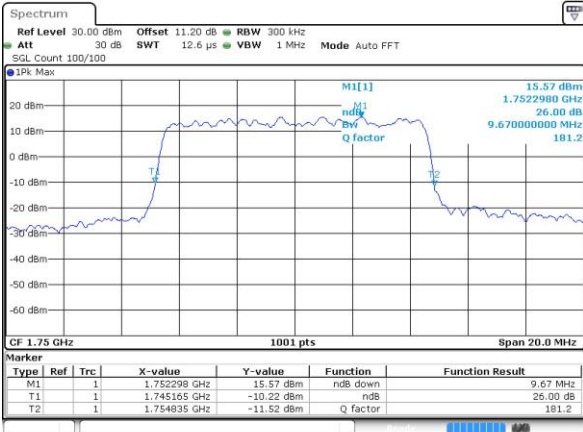
Date: 27 DEC 2016 09:59:37

Middle Channel / 10MHz / 16QAM



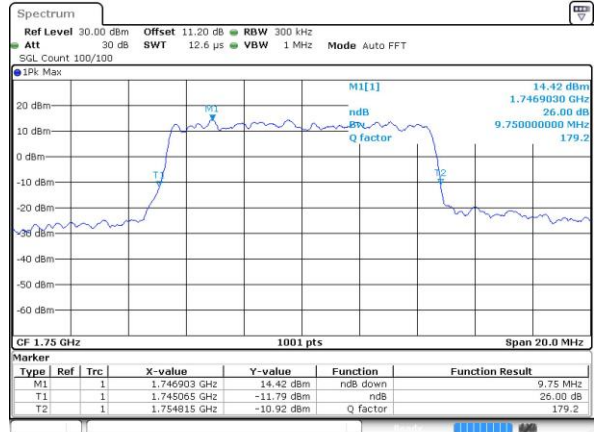
Date: 27 DEC 2016 09:59:48

Highest Channel / 10MHz / QPSK



Date: 27 DEC 2016 10:02:08

Highest Channel / 10MHz / 16QAM

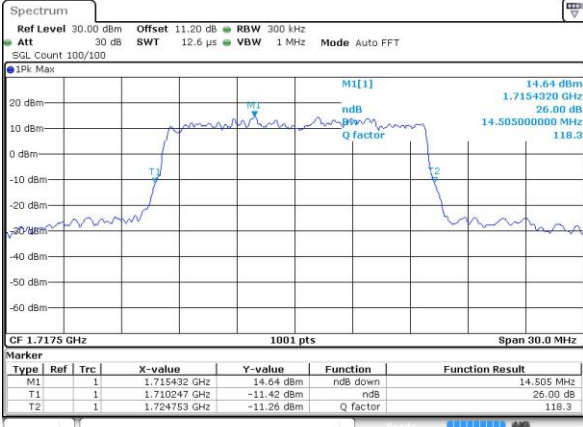


Date: 27 DEC 2016 10:02:18



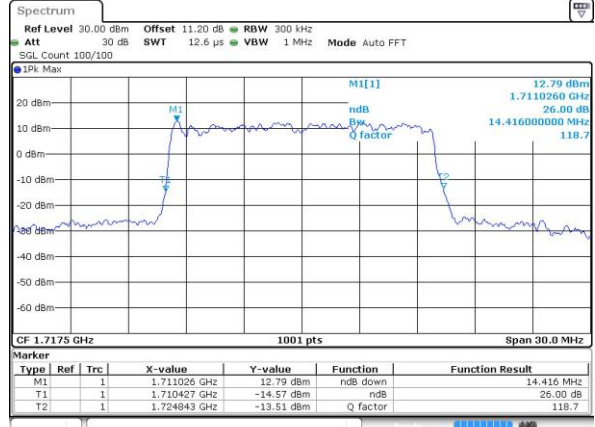
LTE Band 4

Lowest Channel / 15MHz / QPSK



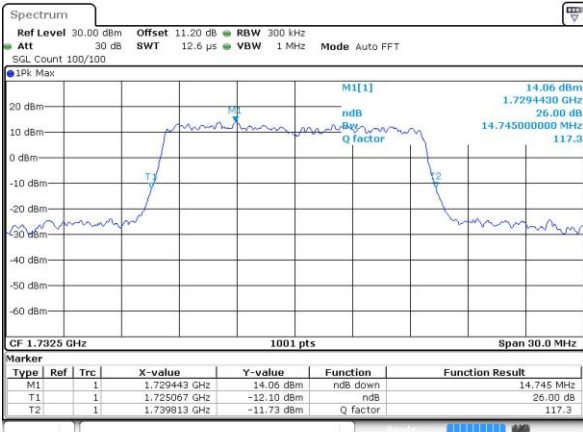
Date: 27 DEC 2016 10:09:14

Lowest Channel / 15MHz / 16QAM



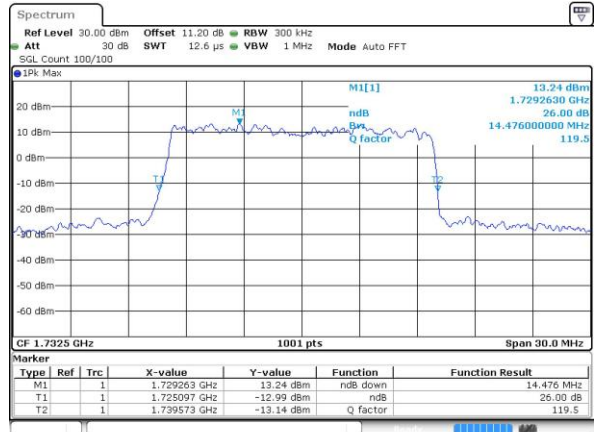
Date: 27 DEC 2016 10:13:34

Middle Channel / 15MHz / QPSK



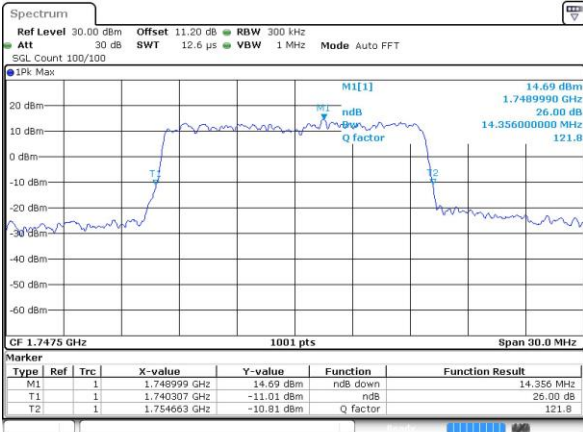
Date: 27 DEC 2016 10:20:31

Middle Channel / 15MHz / 16QAM



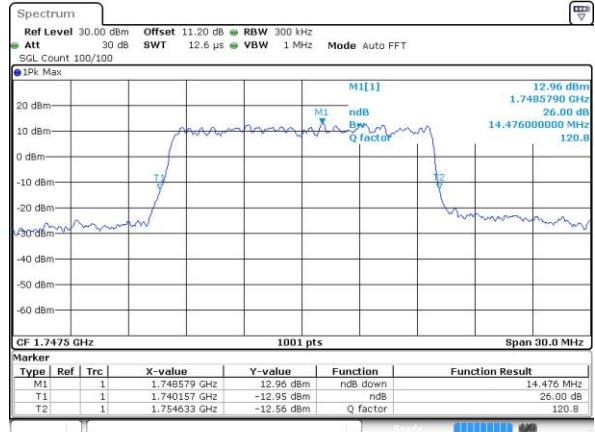
Date: 27 DEC 2016 10:20:41

Highest Channel / 15MHz / QPSK



Date: 27 DEC 2016 10:23:02

Highest Channel / 15MHz / 16QAM

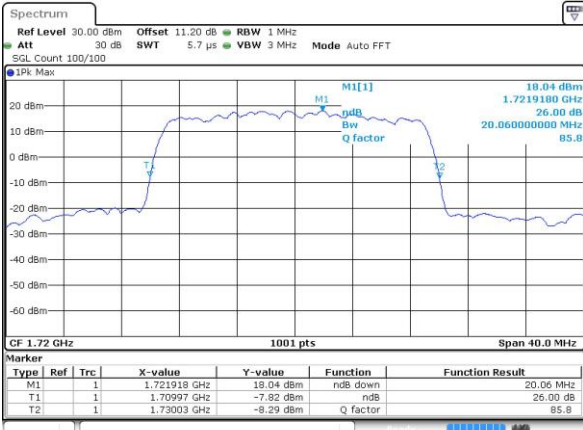


Date: 27 DEC 2016 10:23:12



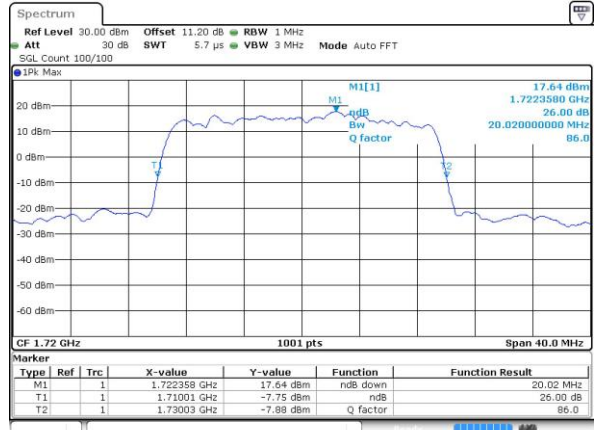
LTE Band 4

Lowest Channel / 20MHz / QPSK



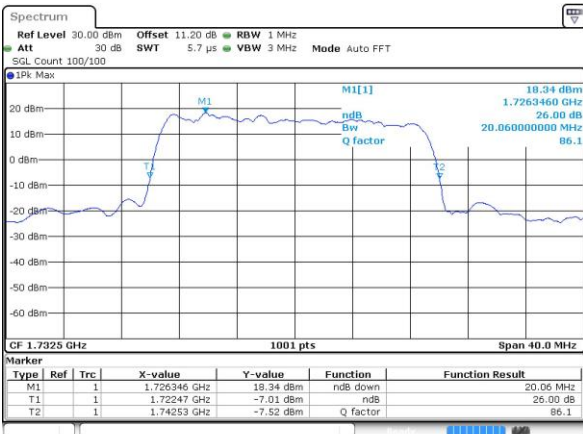
Date: 27 DEC 2016 10:30:08

Lowest Channel / 20MHz / 16QAM



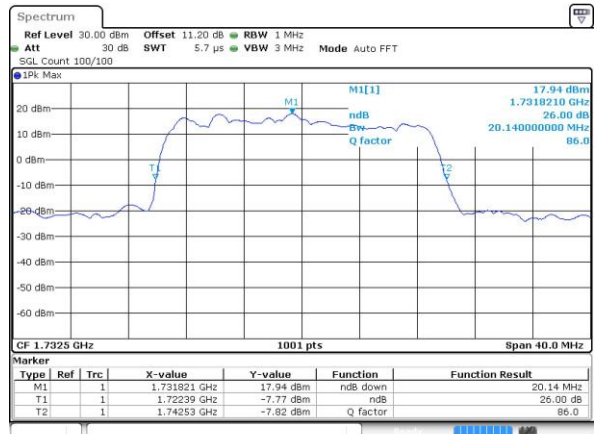
Date: 27 DEC 2016 10:30:18

Middle Channel / 20MHz / QPSK



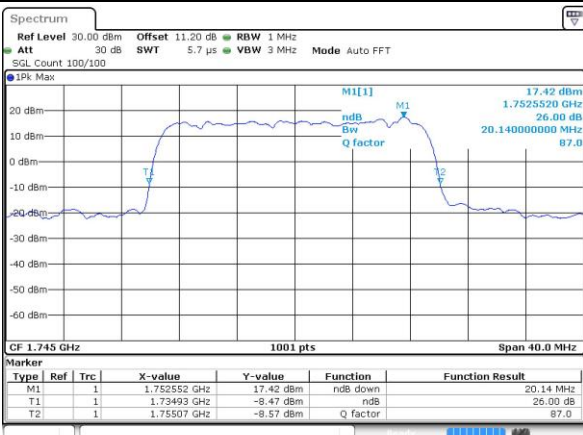
Date: 27 DEC 2016 10:37:15

Middle Channel / 20MHz / 16QAM



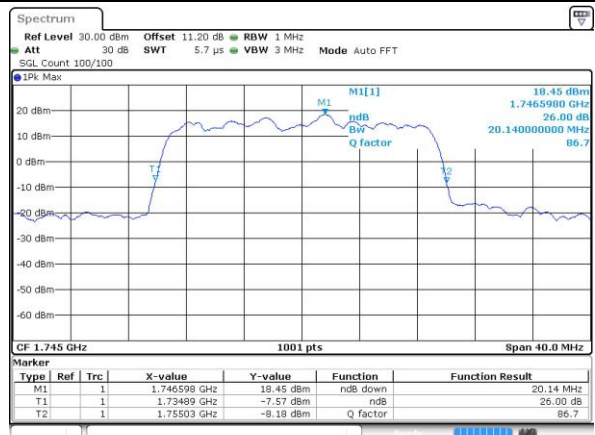
Date: 27 DEC 2016 10:37:25

Highest Channel / 20MHz / QPSK



Date: 27 DEC 2016 10:39:44

Highest Channel / 20MHz / 16QAM



Date: 27 DEC 2016 10:39:54



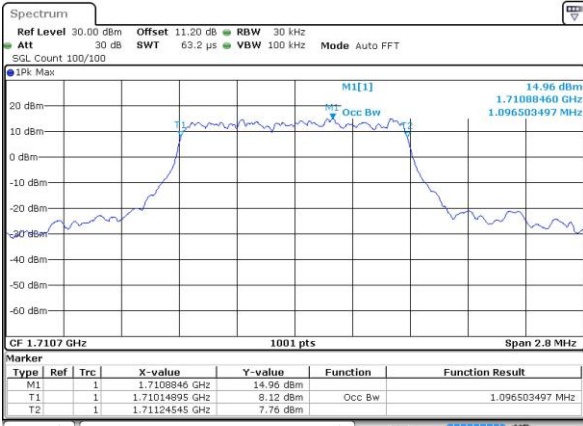
Occupied Bandwidth

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	1.1	1.09	2.71	2.72	4.48	4.49	8.99	8.95	13.43	13.4	18.42	18.1
Middle CH	1.09	1.1	2.72	2.71	4.49	4.49	9.01	9.05	13.49	13.43	18.34	18.34
Highest CH	1.09	1.09	2.7	2.72	4.48	4.51	9.05	9.09	13.43	13.49	18.46	18.3



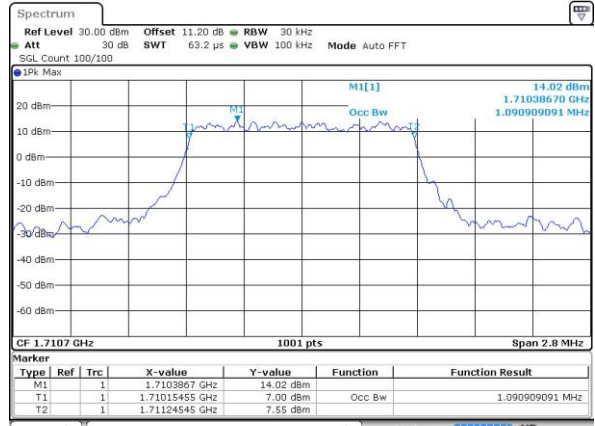
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



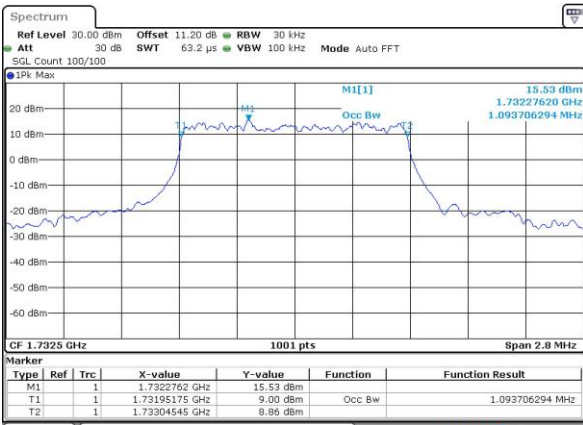
Date: 27 DEC 2016 10:46:30

Lowest Channel / 1.4MHz / 16QAM



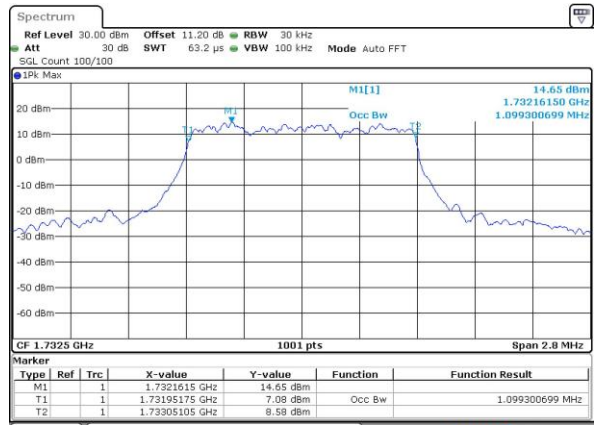
Date: 27 DEC 2016 10:46:40

Middle Channel / 1.4MHz / QPSK



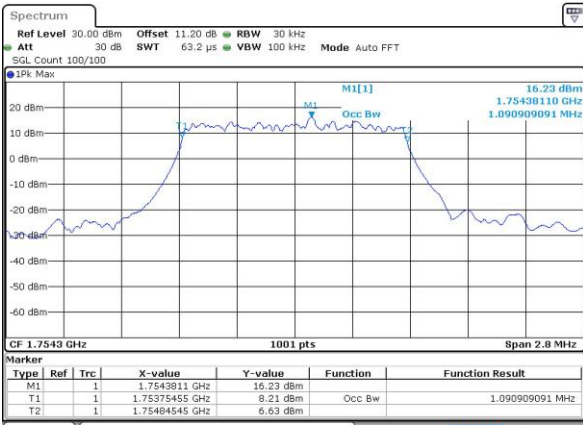
Date: 27 DEC 2016 10:53:36

Middle Channel / 1.4MHz / 16QAM



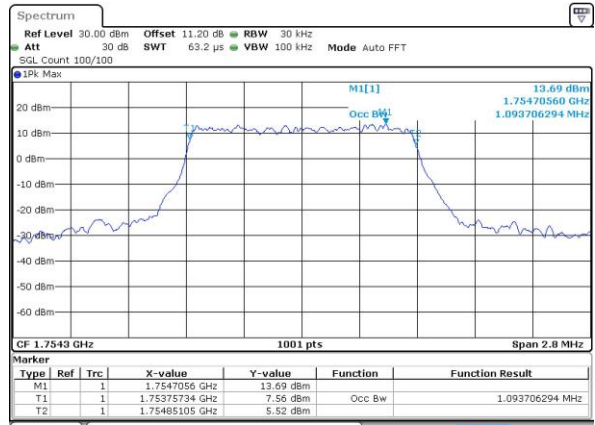
Date: 27 DEC 2016 10:53:47

Highest Channel / 1.4MHz / QPSK



Date: 27 DEC 2016 10:56:07

Highest Channel / 1.4MHz / 16QAM

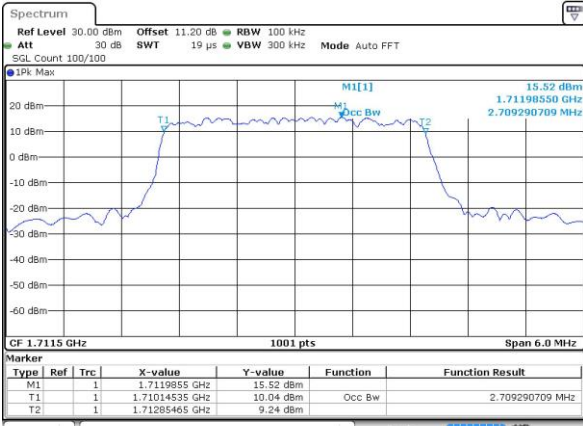


Date: 27 DEC 2016 10:56:17



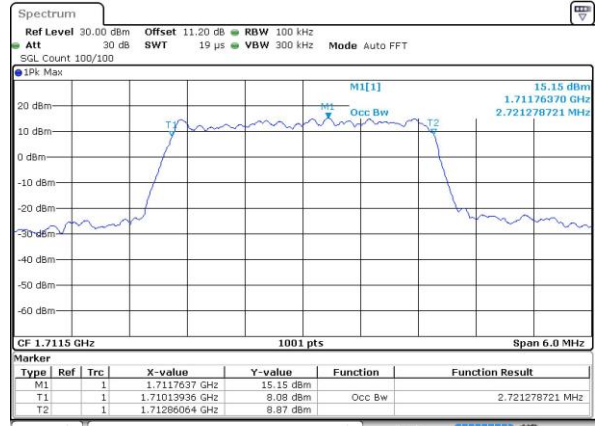
LTE Band 4

Lowest Channel / 3MHz / QPSK



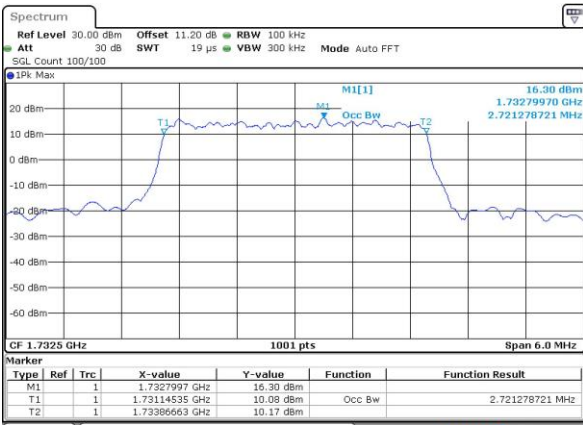
Date: 27 DEC 2016 09:18:42

Lowest Channel / 3MHz / 16QAM



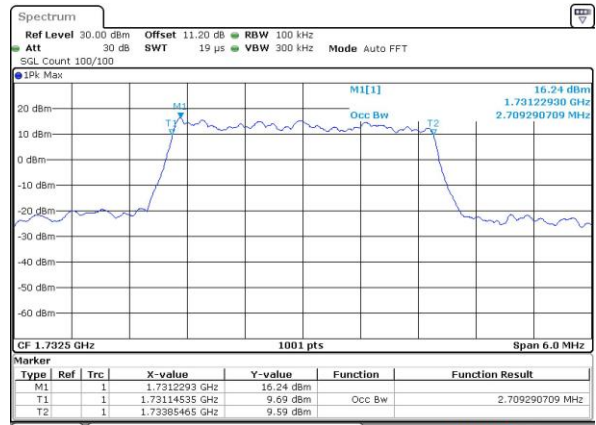
Date: 27 DEC 2016 09:18:52

Middle Channel / 3MHz / QPSK



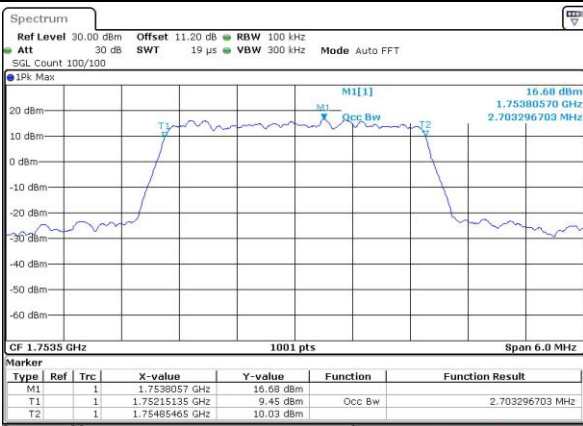
Date: 27 DEC 2016 09:25:49

Middle Channel / 3MHz / 16QAM



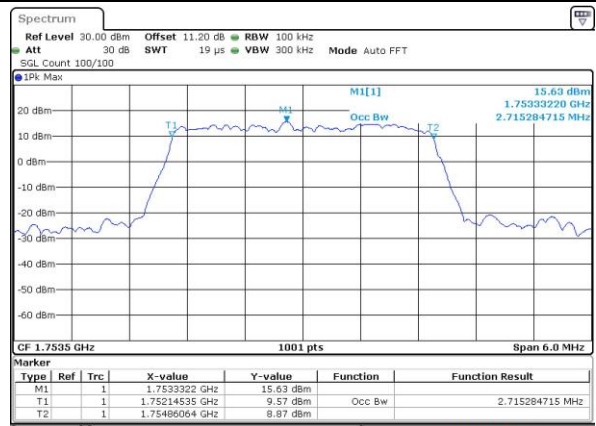
Date: 27 DEC 2016 09:25:59

Highest Channel / 3MHz / QPSK



Date: 27 DEC 2016 09:28:19

Highest Channel / 3MHz / 16QAM

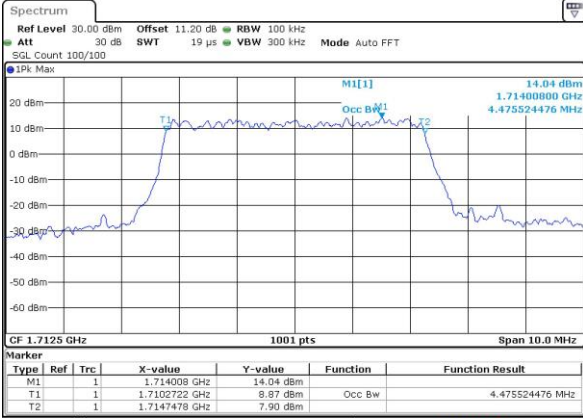


Date: 27 DEC 2016 09:28:30



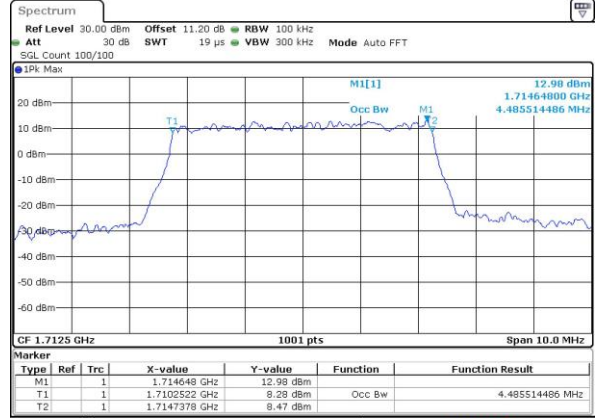
LTE Band 4

Lowest Channel / 5MHz / QPSK



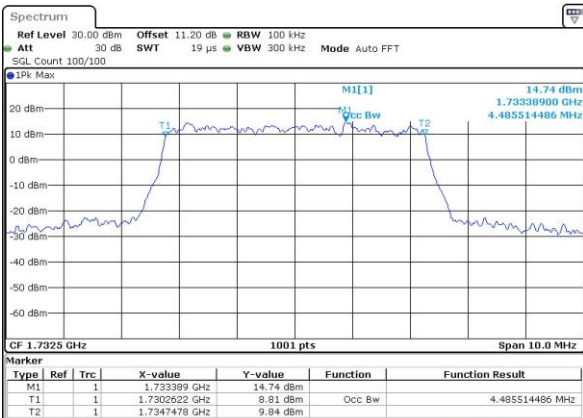
Date: 27 DEC 2016 09:35:26

Lowest Channel / 5MHz / 16QAM



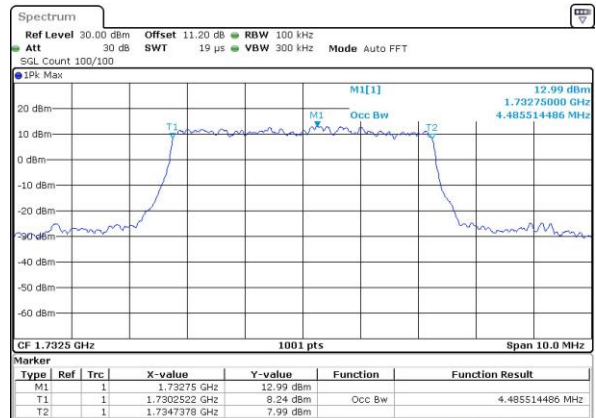
Date: 27 DEC 2016 09:35:37

Middle Channel / 5MHz / QPSK



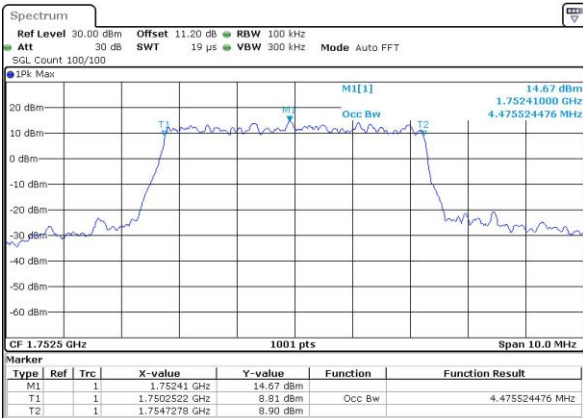
Date: 27 DEC 2016 09:42:33

Middle Channel / 5MHz / 16QAM



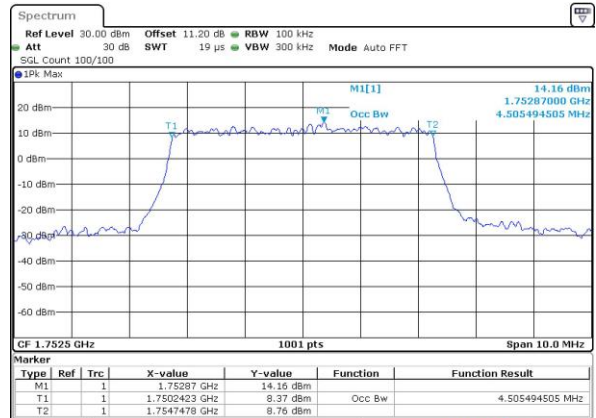
Date: 27 DEC 2016 09:42:43

Highest Channel / 5MHz / QPSK



Date: 27 DEC 2016 09:45:03

Highest Channel / 5MHz / 16QAM

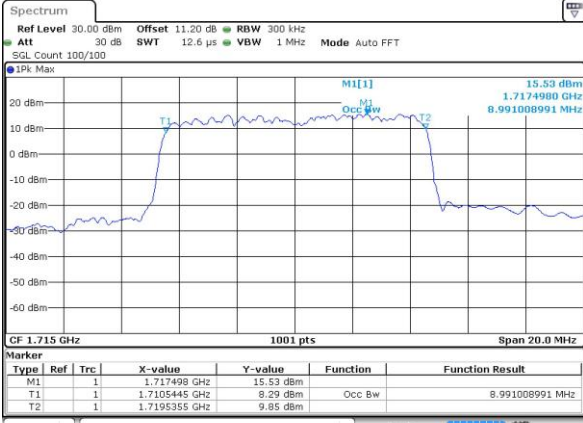


Date: 27 DEC 2016 09:45:14



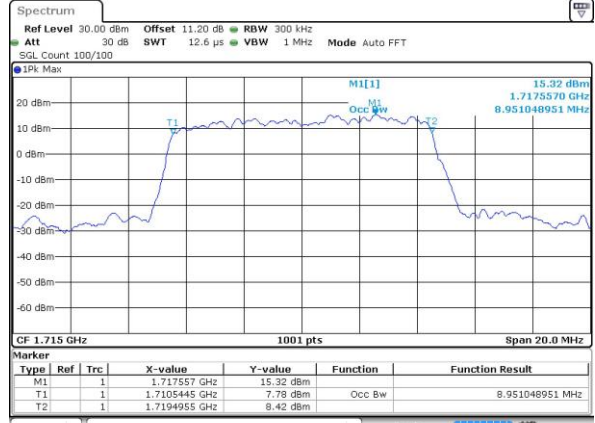
LTE Band 4

Lowest Channel / 10MHz / QPSK



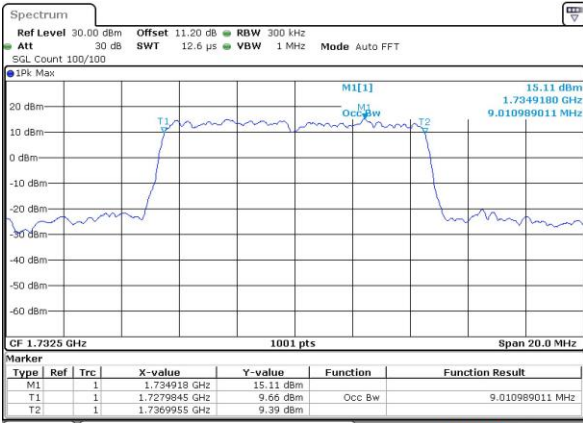
Date: 27 DEC 2016 09:52:10

Lowest Channel / 10MHz / 16QAM



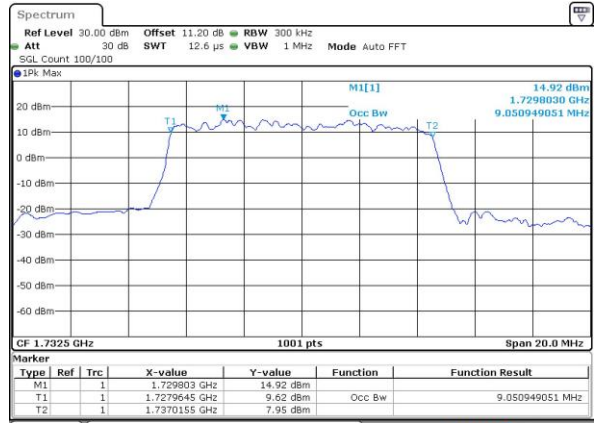
Date: 27 DEC 2016 09:52:21

Middle Channel / 10MHz / QPSK



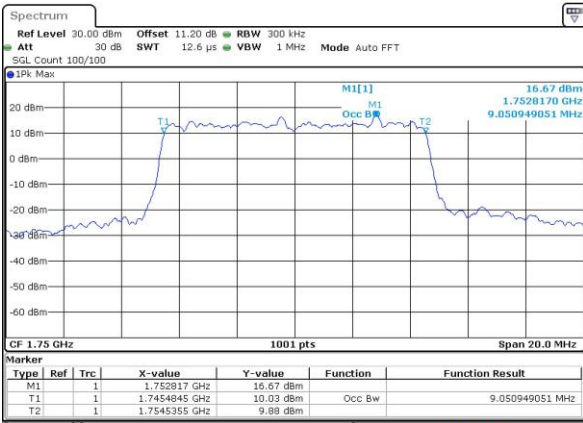
Date: 27 DEC 2016 09:59:17

Middle Channel / 10MHz / 16QAM



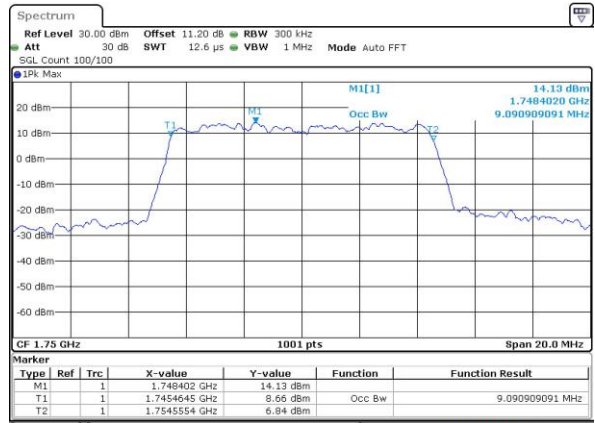
Date: 27 DEC 2016 09:59:27

Highest Channel / 10MHz / QPSK



Date: 27 DEC 2016 10:01:47

Highest Channel / 10MHz / 16QAM

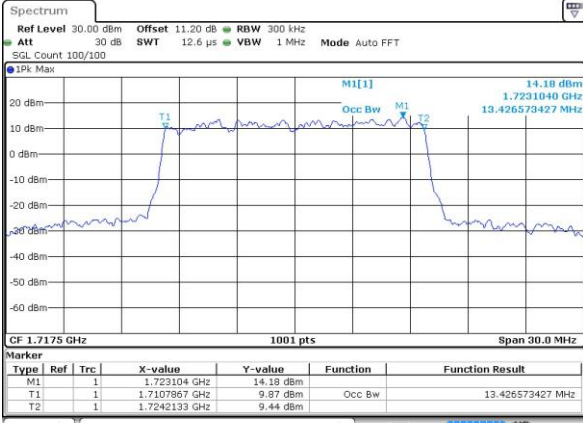


Date: 27 DEC 2016 10:01:57



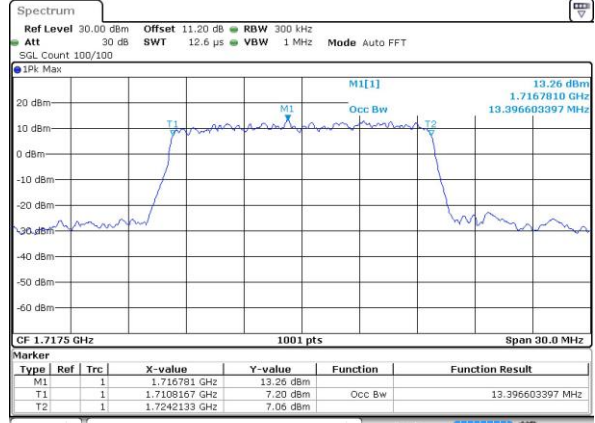
LTE Band 4

Lowest Channel / 15MHz / QPSK



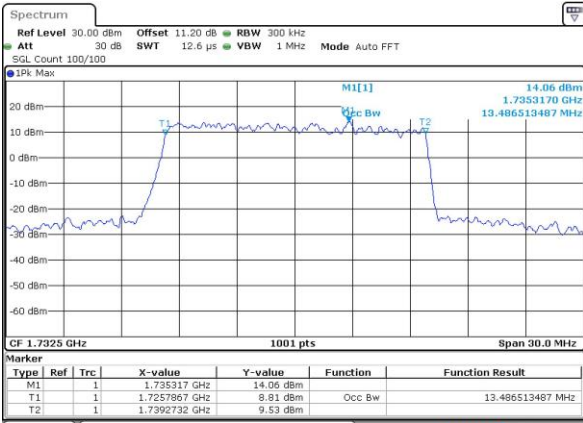
Date: 27 DEC 2016 10:08:54

Lowest Channel / 15MHz / 16QAM



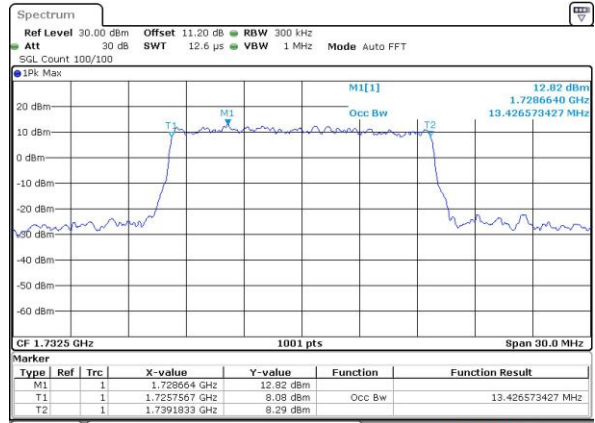
Date: 27 DEC 2016 10:09:04

Middle Channel / 15MHz / QPSK



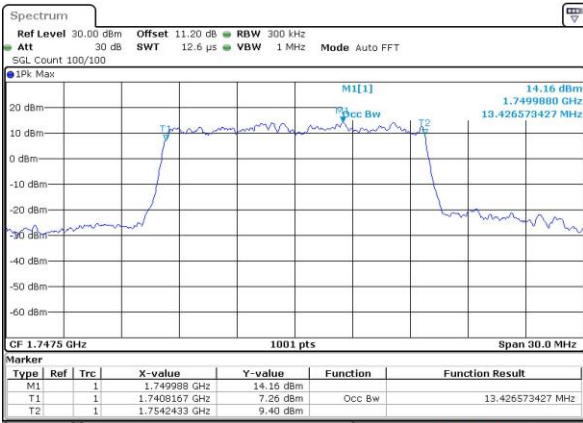
Date: 27 DEC 2016 10:20:10

Middle Channel / 15MHz / 16QAM



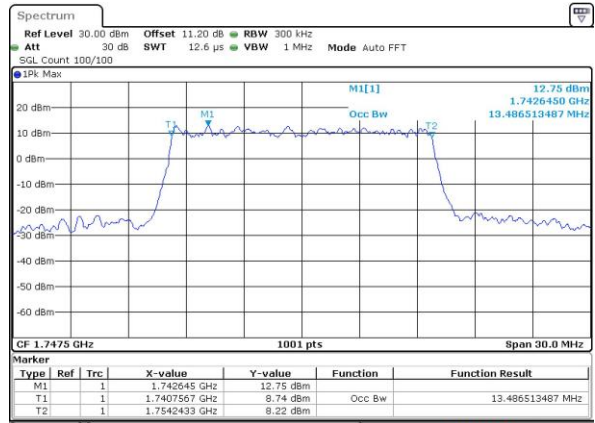
Date: 27 DEC 2016 10:20:20

Highest Channel / 15MHz / QPSK



Date: 27 DEC 2016 10:22:41

Highest Channel / 15MHz / 16QAM

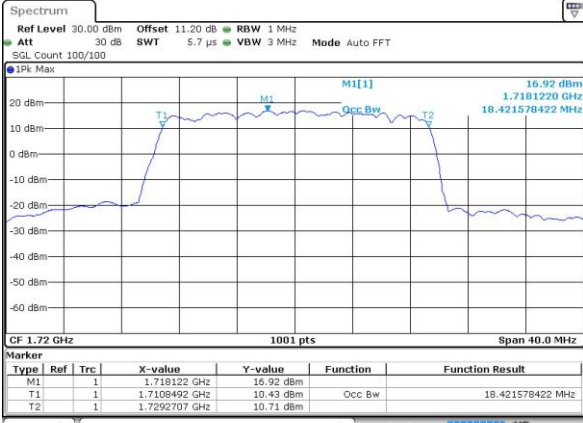


Date: 27 DEC 2016 10:22:51



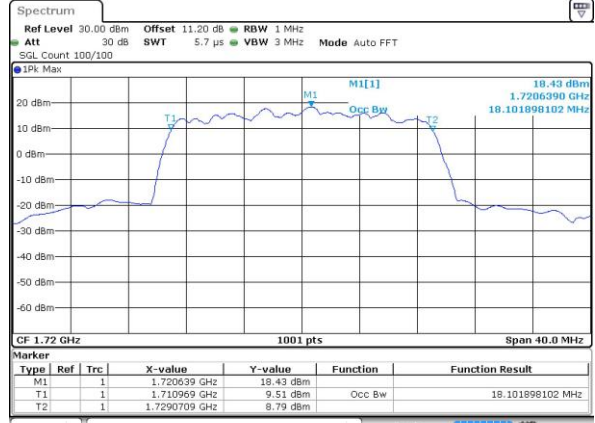
LTE Band 4

Lowest Channel / 20MHz / QPSK



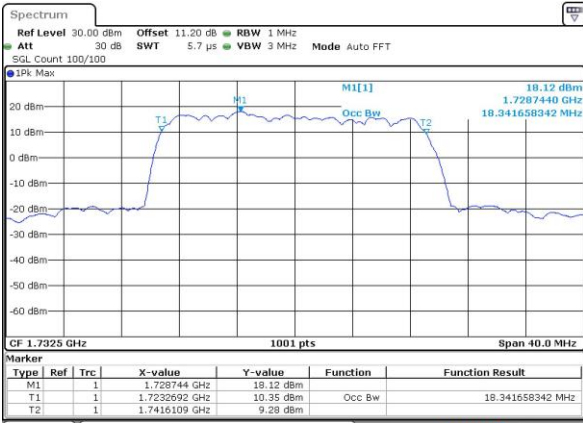
Date: 27 DEC 2016 10:29:48

Lowest Channel / 20MHz / 16QAM



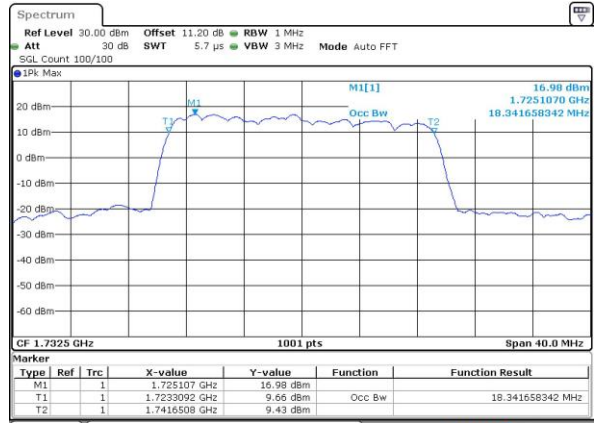
Date: 27 DEC 2016 10:29:58

Middle Channel / 20MHz / QPSK



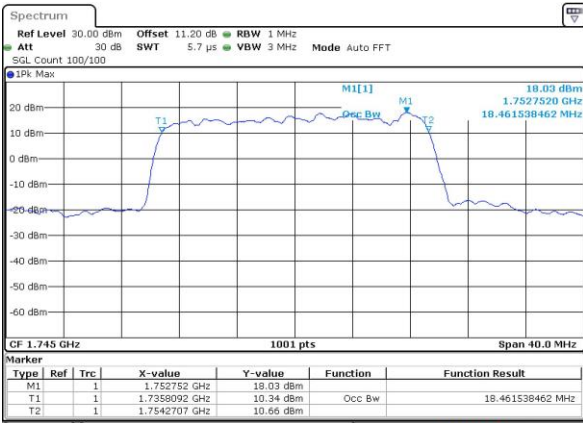
Date: 27 DEC 2016 10:36:54

Middle Channel / 20MHz / 16QAM



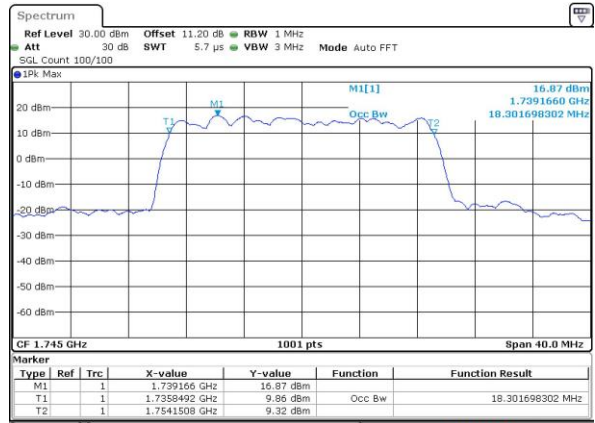
Date: 27 DEC 2016 10:37:04

Highest Channel / 20MHz / QPSK



Date: 27 DEC 2016 10:39:24

Highest Channel / 20MHz / 16QAM



Date: 27 DEC 2016 10:39:34



Conducted Band Edge



LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



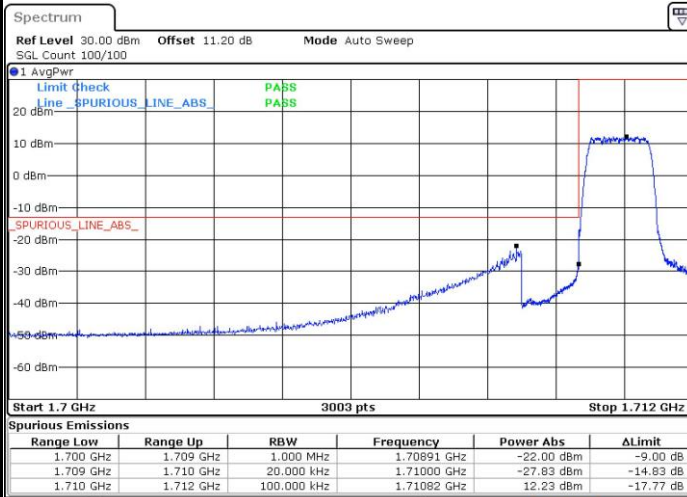
Date: 27.DEC.2016 10:48:10

Highest Band Edge / 1RB



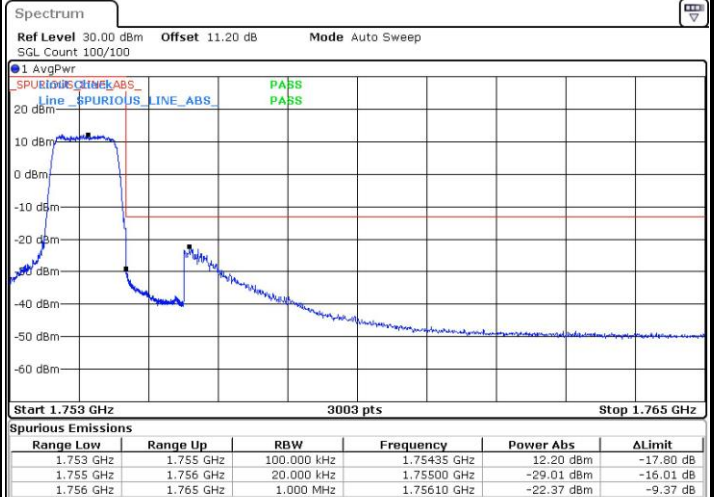
Date: 27.DEC.2016 10:57:47

Lowest Band Edge / Full RB



Date: 27.DEC.2016 10:50:28

Highest Band Edge / Full RB

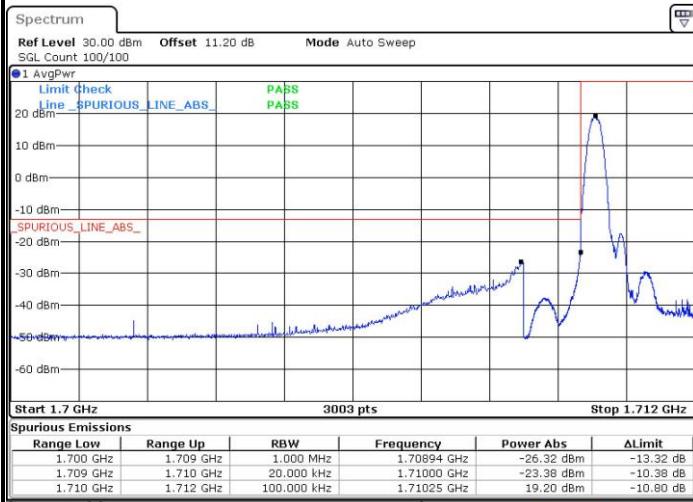


Date: 27.DEC.2016 11:00:05



LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



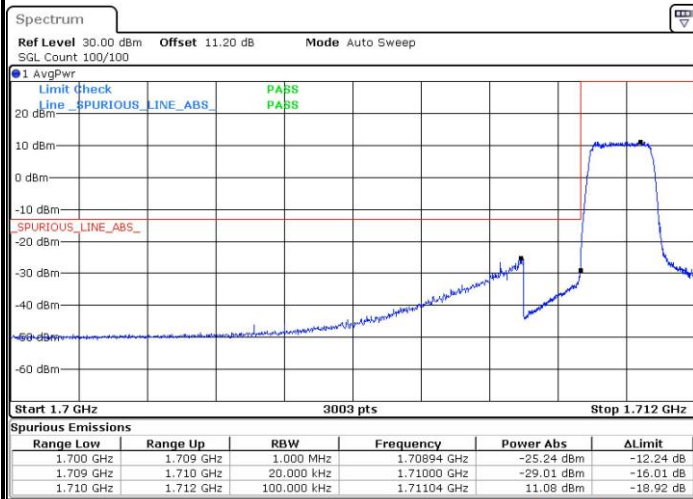
Date: 27.DEC.2016 10:49:19

Highest Band Edge / 1 RB



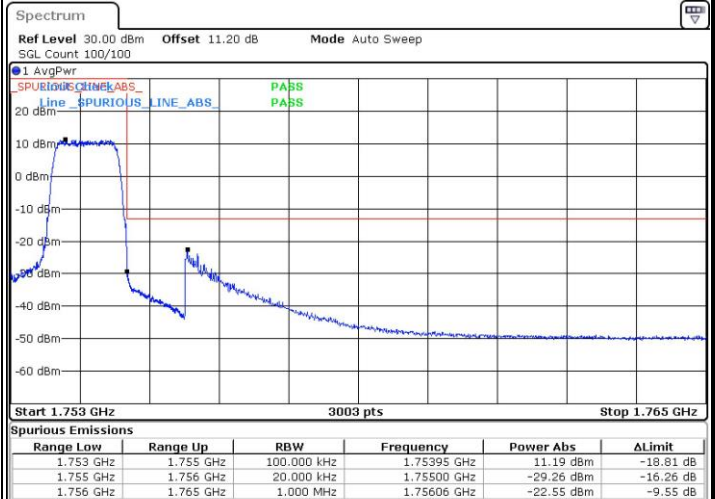
Date: 27.DEC.2016 10:58:56

Lowest Band Edge / Full RB



Date: 27.DEC.2016 10:51:37

Highest Band Edge / Full RB



Date: 27.DEC.2016 11:01:16