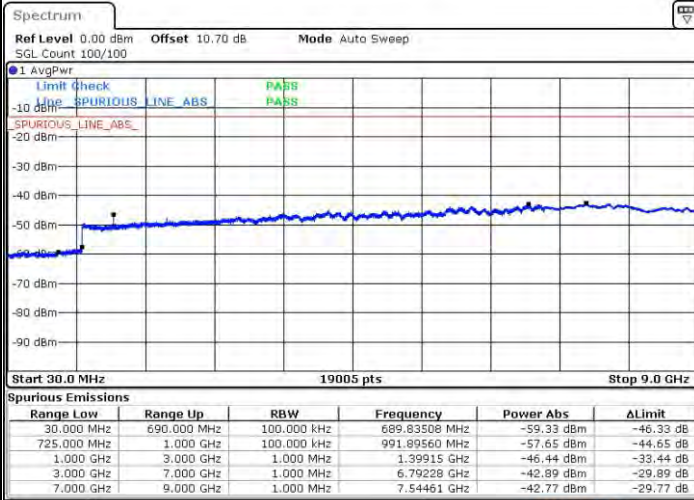




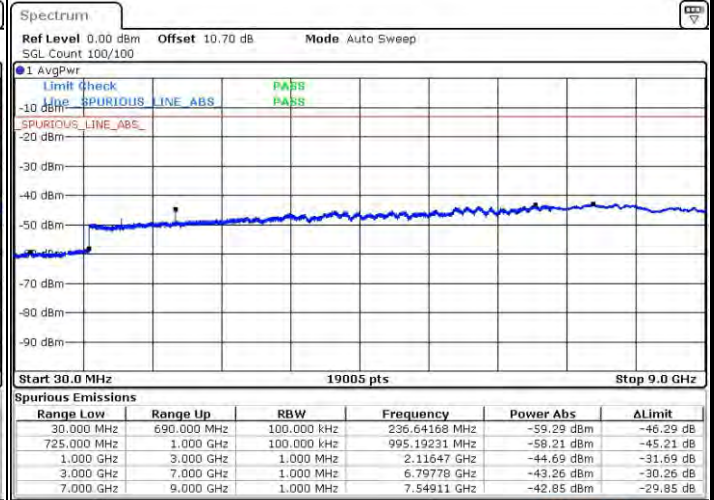
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

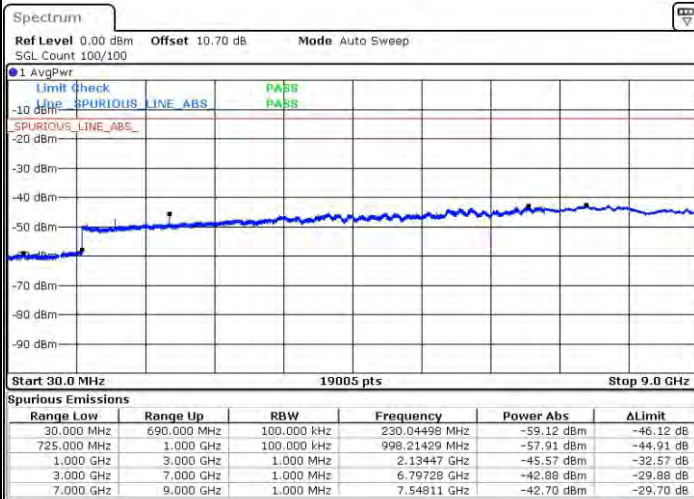


Date: 16 DEC. 2016 16:56:30



Date: 16 DEC. 2016 16:57:48

Highest Channel / 64QAM



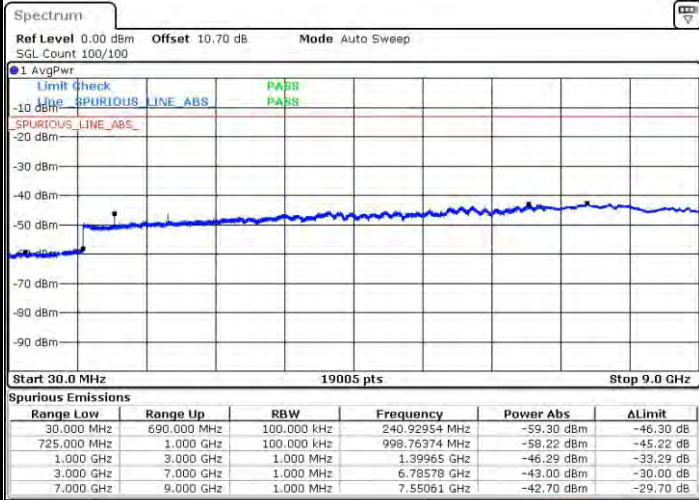
Date: 16 DEC. 2016 17:00:56



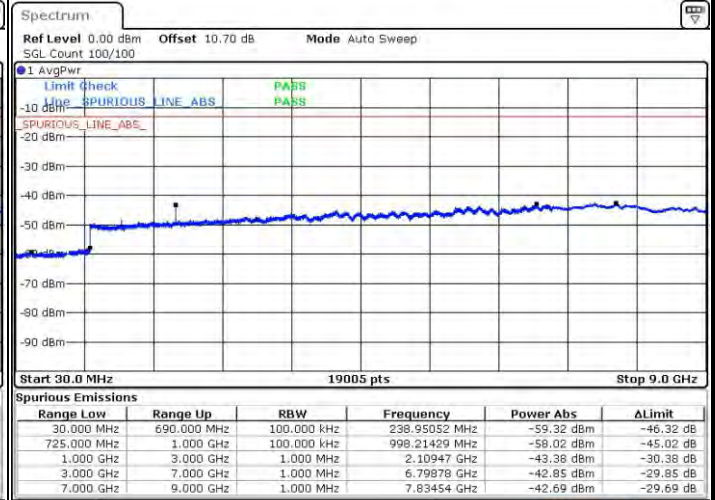
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

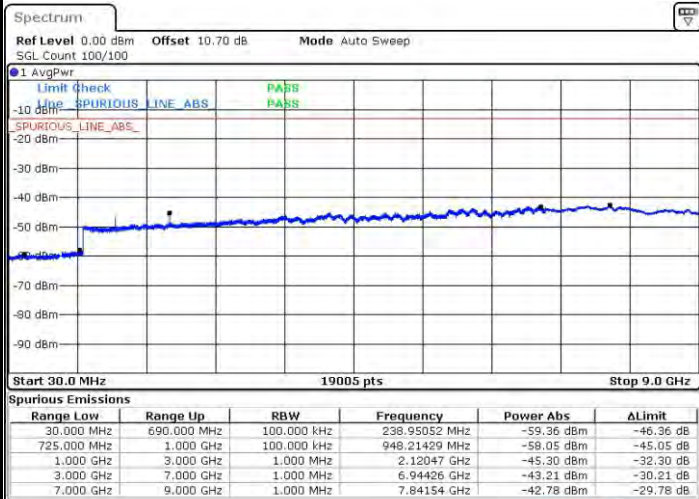


Date: 16.DEC.2018 17:04:04



Date: 16.DEC.2018 17:05:22

Highest Channel / 64QAM



Date: 16.DEC.2018 17:08:30



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0150	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =9 V. ; Battery End Point (BEP) =7.65 V. ; Maximum Voltage =10.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.00	4.61	4.72	5.57	PASS
Middle CH	4.23	4.58	5.16	5.65	
Highest CH	4.20	4.7	4.72	5.77	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.68	6.20	-	-	PASS
Middle CH	5.97	6.23	-	-	
Highest CH	6.00	6.32	-	-	



LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 11.DEC.2018 01:26:25

Lowest Channel / Full RB



Date: 11.DEC.2018 01:26:35

Middle Channel / 1RB



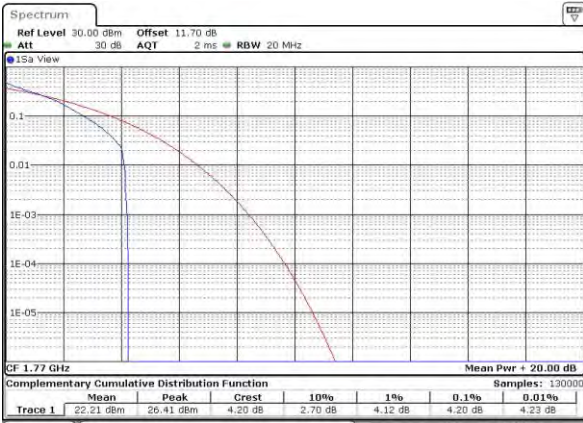
Date: 11.DEC.2018 01:26:45

Middle Channel / Full RB



Date: 11.DEC.2018 01:26:55

Highest Channel / 1RB



Date: 11.DEC.2018 01:27:05

Highest Channel / Full RB

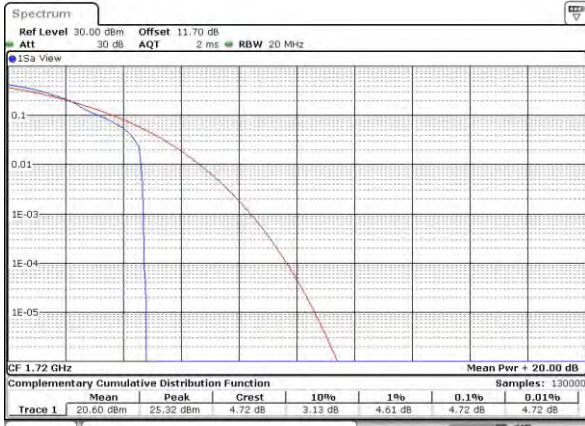


Date: 11.DEC.2018 01:27:15



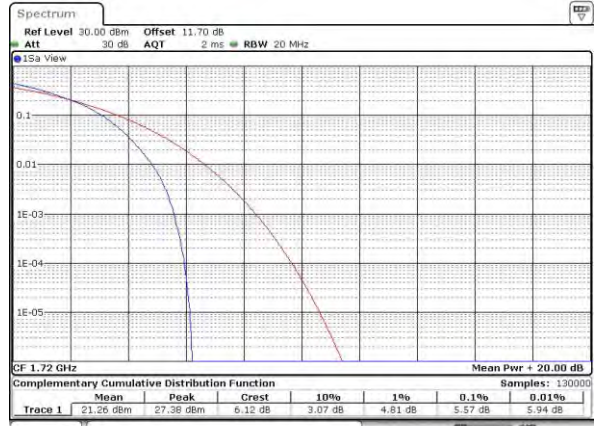
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 11.DEC.2018 01:25:23

Lowest Channel / Full RB



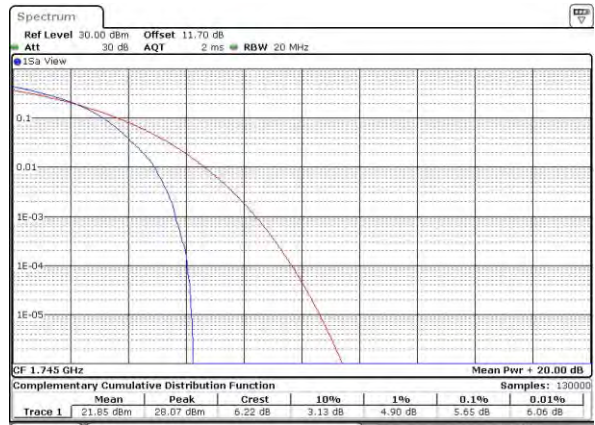
Date: 11.DEC.2018 01:25:36

Middle Channel / 1RB



Date: 11.DEC.2018 01:25:46

Middle Channel / Full RB



Date: 11.DEC.2018 01:25:56

Highest Channel / 1RB



Date: 11.DEC.2018 01:26:06

Highest Channel / Full RB

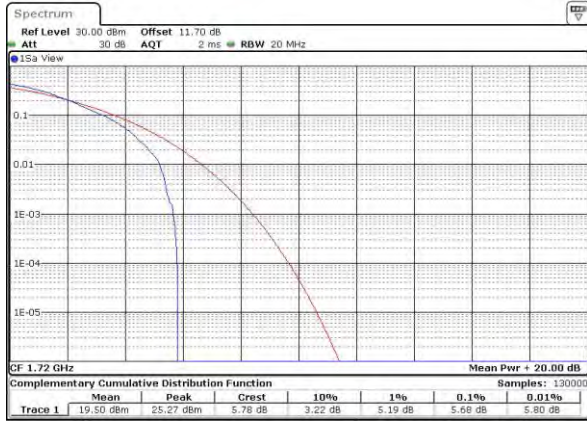


Date: 11.DEC.2018 01:26:16



LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



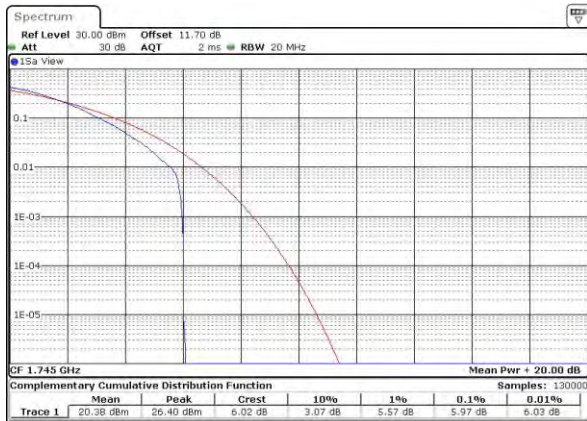
Date: 11.DEC.2018 01:27:25

Lowest Channel / Full RB



Date: 11.DEC.2018 01:27:35

Middle Channel / 1RB



Date: 11.DEC.2018 01:27:45

Middle Channel / Full RB



Date: 11.DEC.2018 01:31:55

Highest Channel / 1RB



Date: 11.DEC.2018 01:32:09

Highest Channel / Full RB



Date: 11.DEC.2018 01:32:20



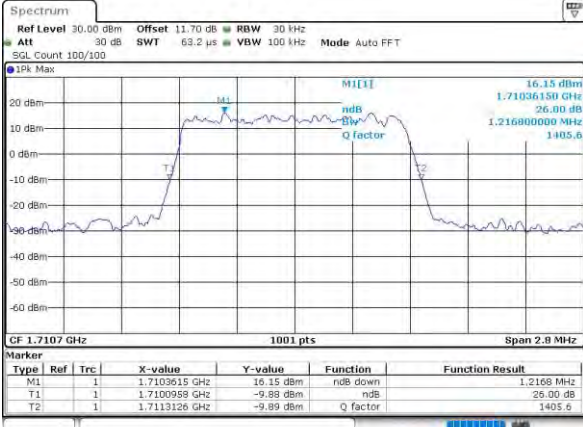
26dB Bandwidth

Mode	LTE Band 66 : 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	1.22	1.22	2.99	3.05	4.88	4.85	9.73	9.77	14.21	14.39	20.18	20.18
Middle CH	1.23	1.23	3.03	3.02	4.88	4.92	9.93	9.83	14.60	14.21	20.10	20.06
Highest CH	1.23	1.23	3.05	3.03	4.80	4.85	9.65	9.85	14.54	14.21	20.34	20.10
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	2.97	-	4.85	-	9.79	-	14.66	-	20.34	-
Middle CH	1.23	-	3.03	-	4.96	-	9.79	-	14.27	-	20.14	-
Highest CH	1.22	-	3.06	-	4.89	-	9.81	-	14.12	-	20.06	-



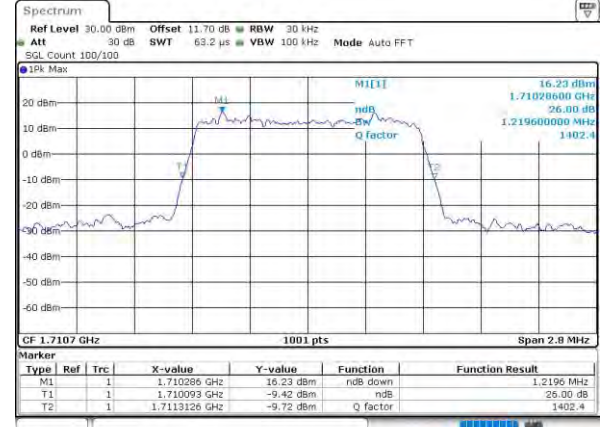
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



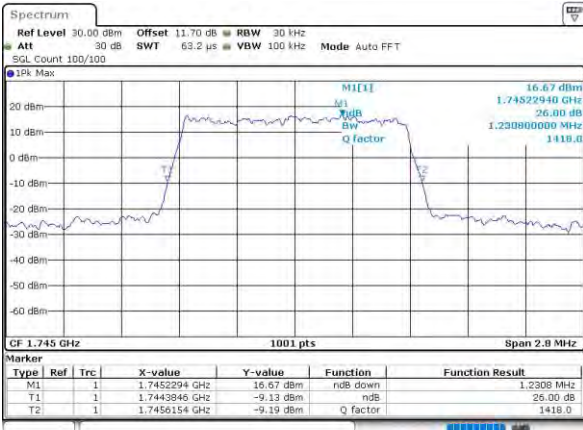
Date: 10. DEC. 2016 23:10:14

Lowest Channel / 1.4MHz / 16QAM



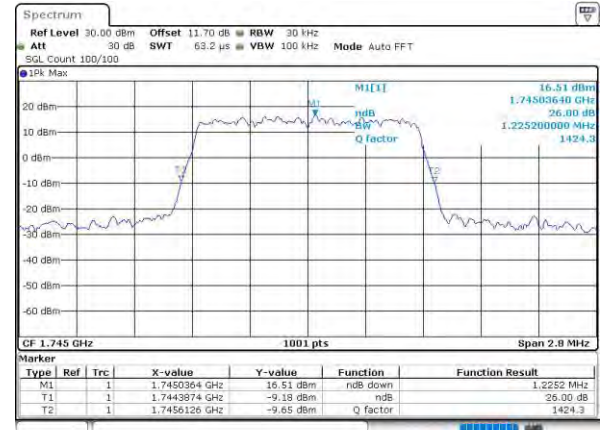
Date: 10. DEC. 2016 23:10:55

Middle Channel / 1.4MHz / QPSK



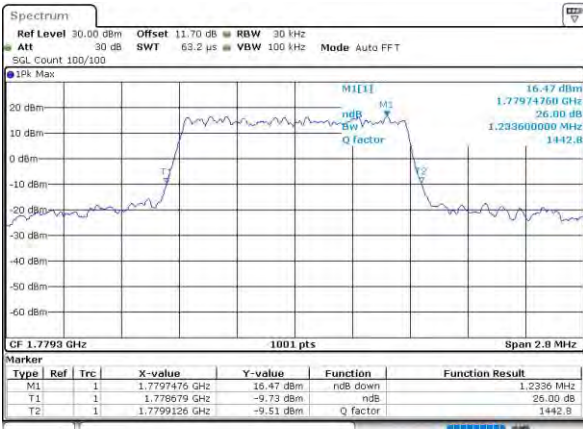
Date: 10. DEC. 2016 23:11:37

Middle Channel / 1.4MHz / 16QAM



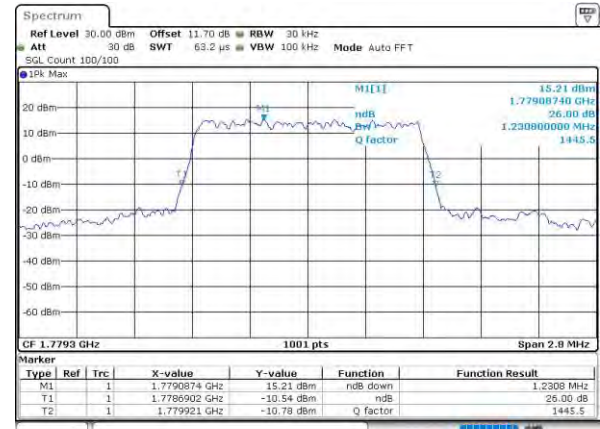
Date: 10. DEC. 2016 23:11:49

Highest Channel / 1.4MHz / QPSK



Date: 10. DEC. 2016 23:11:23

Highest Channel / 1.4MHz / 16QAM

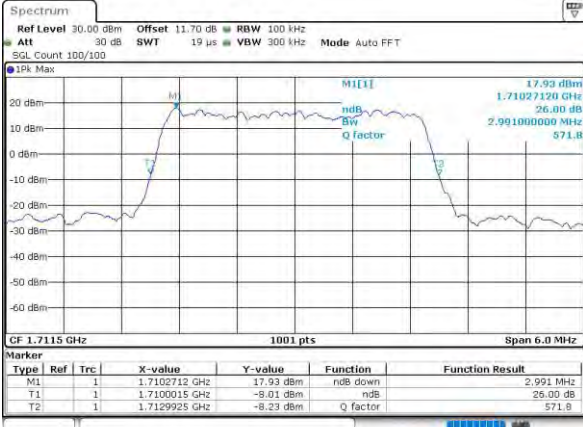


Date: 10. DEC. 2016 23:11:35



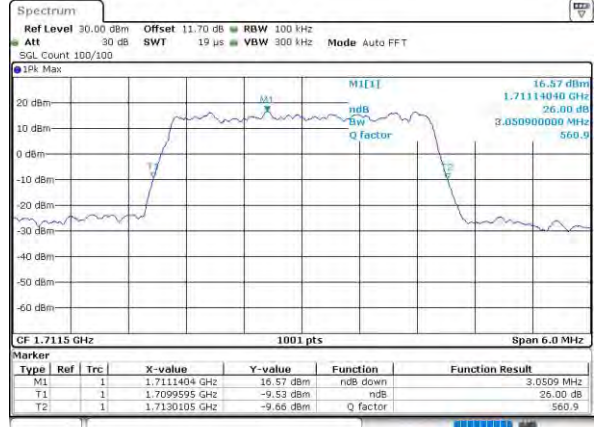
LTE Band 66

Lowest Channel / 3MHz / QPSK



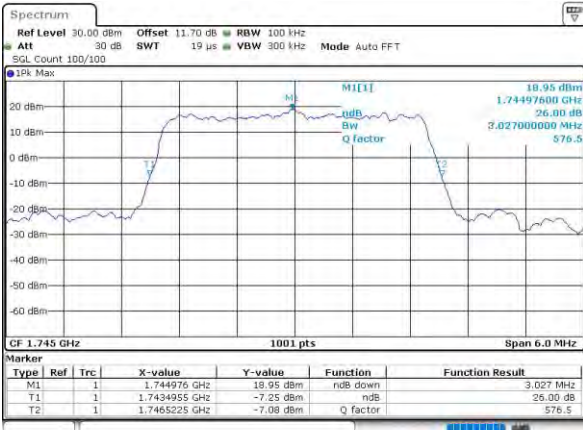
Date: 10 DEC 2016 23:33:33

Lowest Channel / 3MHz / 16QAM



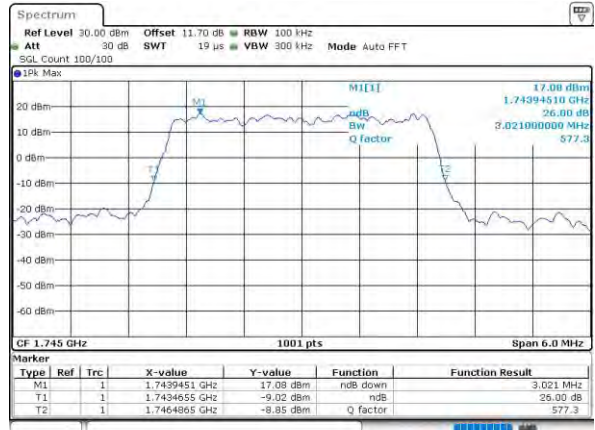
Date: 10 DEC 2016 23:33:44

Middle Channel / 3MHz / QPSK



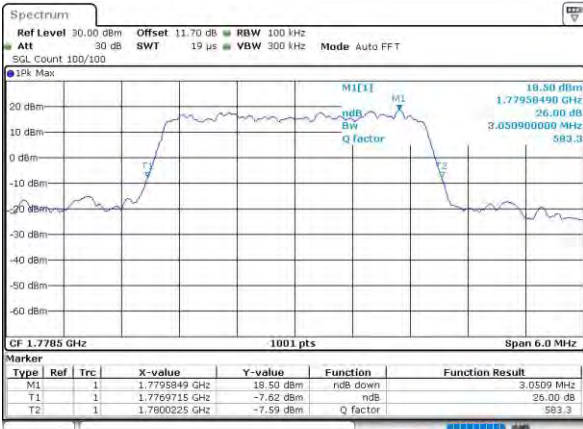
Date: 10 DEC 2016 23:39:36

Middle Channel / 3MHz / 16QAM



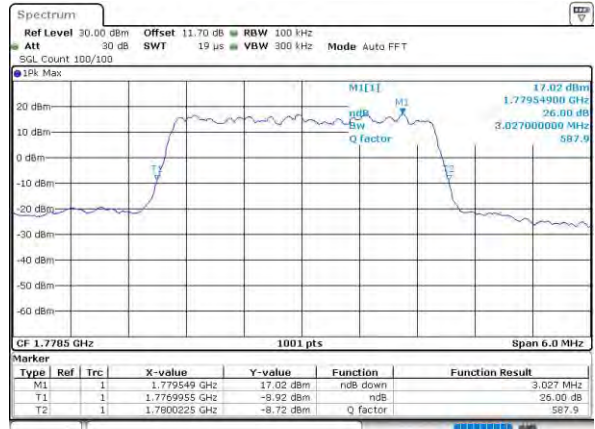
Date: 10 DEC 2016 23:39:47

Highest Channel / 3MHz / QPSK



Date: 10 DEC 2016 23:42:22

Highest Channel / 3MHz / 16QAM



Date: 10 DEC 2016 23:42:33



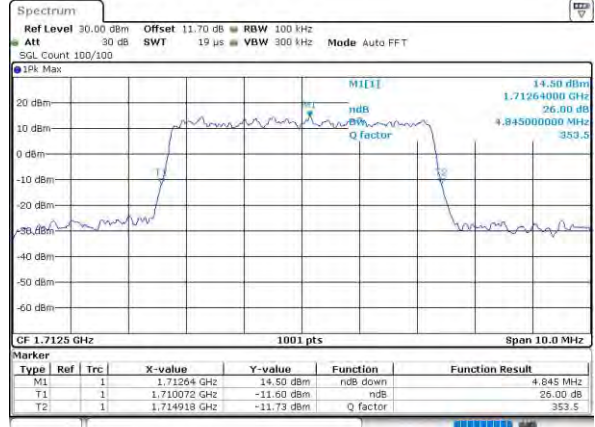
LTE Band 66

Lowest Channel / 5MHz / QPSK



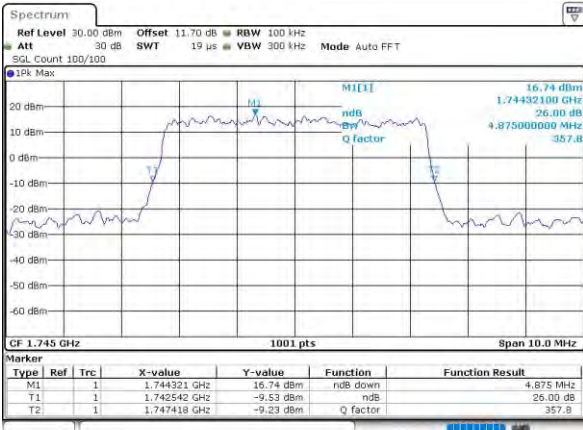
Date: 10, DEC, 2016 23:48:25

Lowest Channel / 5MHz / 16QAM



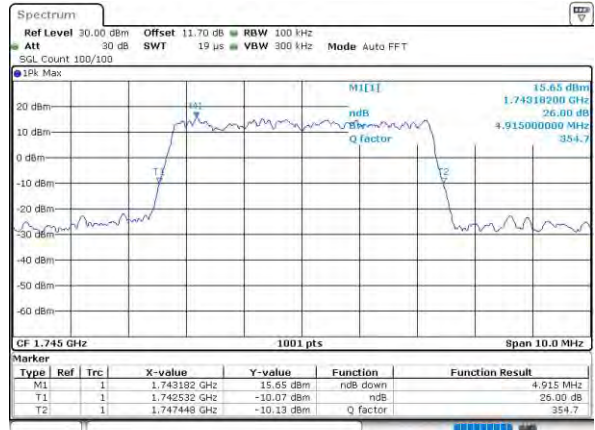
Date: 10, DEC, 2016 23:48:19

Middle Channel / 5MHz / QPSK



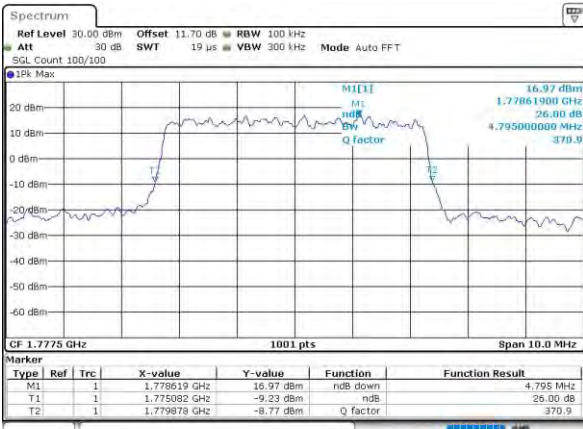
Date: 10, DEC, 2016 23:48:28

Middle Channel / 5MHz / 16QAM



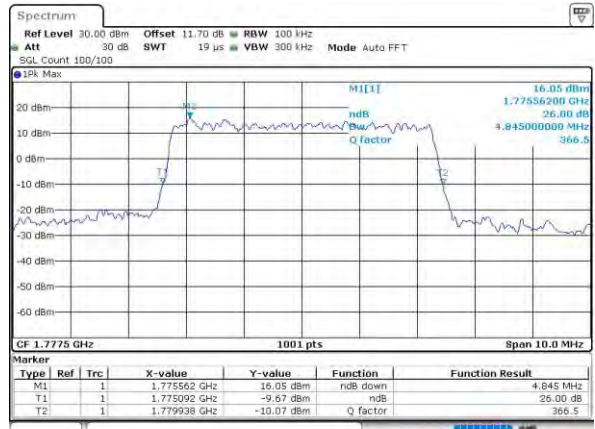
Date: 10, DEC, 2016 23:48:19

Highest Channel / 5MHz / QPSK



Date: 10, DEC, 2016 23:57:14

Highest Channel / 5MHz / 16QAM

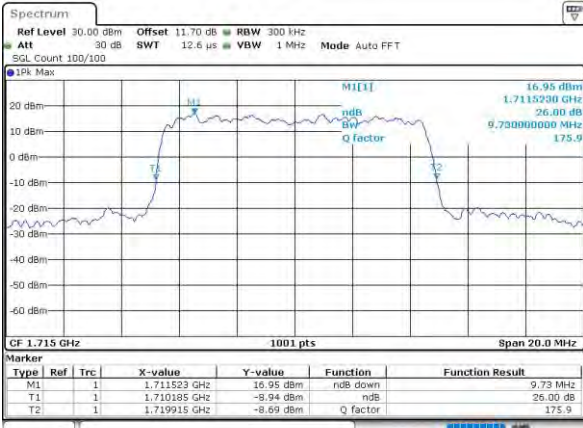


Date: 10, DEC, 2016 23:57:25



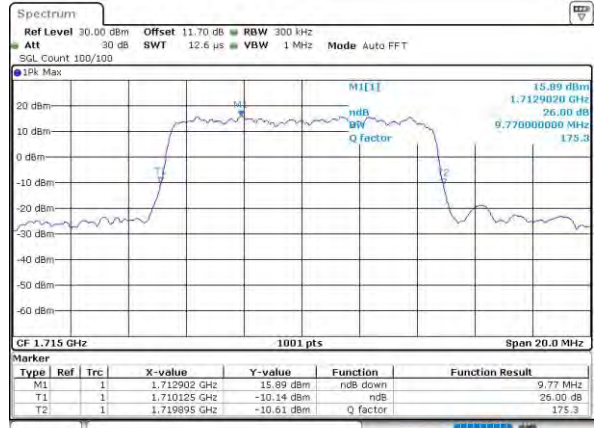
LTE Band 66

Lowest Channel / 10MHz / QPSK



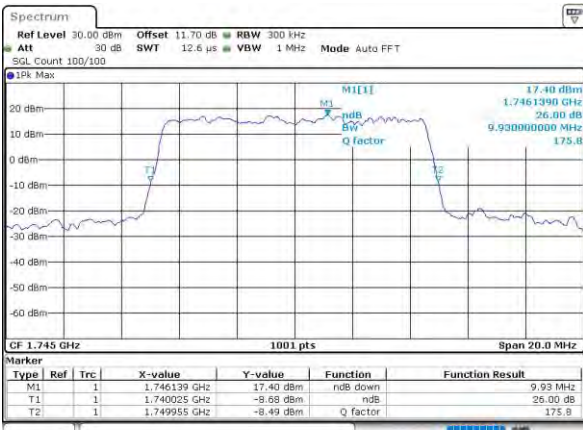
Date: 11.DEC.2016 00:03:17

Lowest Channel / 10MHz / 16QAM



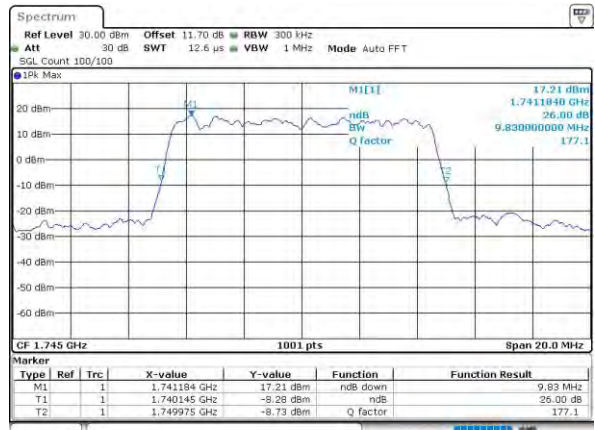
Date: 11.DEC.2016 00:03:29

Middle Channel / 10MHz / QPSK



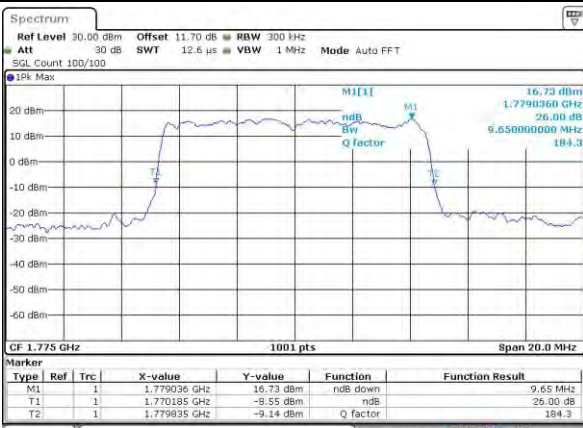
Date: 11.DEC.2016 00:09:20

Middle Channel / 10MHz / 16QAM



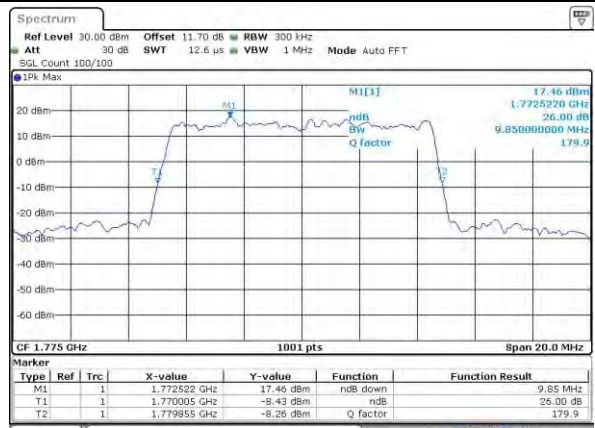
Date: 11.DEC.2016 00:09:31

Highest Channel / 10MHz / QPSK



Date: 11.DEC.2016 00:12:06

Highest Channel / 10MHz / 16QAM

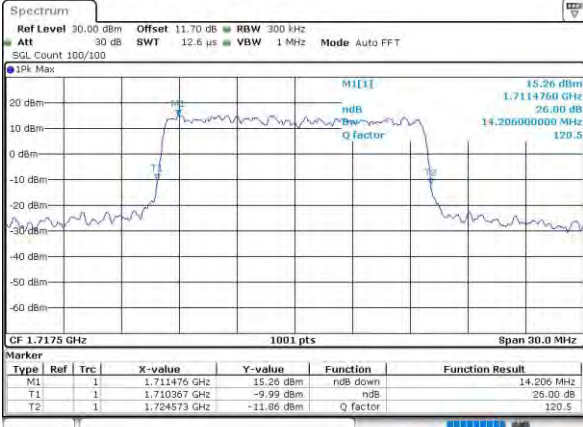


Date: 11.DEC.2016 00:12:17



LTE Band 66

Lowest Channel / 15MHz / QPSK



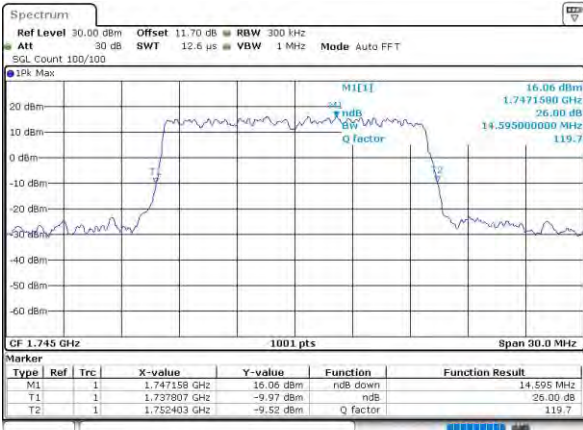
Date: 11.DEC.2016 00:18:08

Lowest Channel / 15MHz / 16QAM



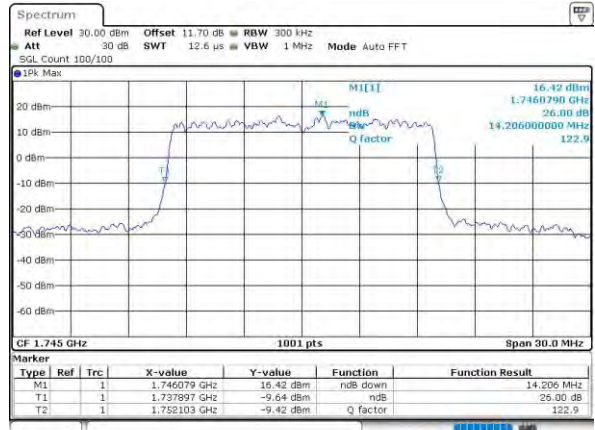
Date: 11.DEC.2016 00:18:20

Middle Channel / 15MHz / QPSK



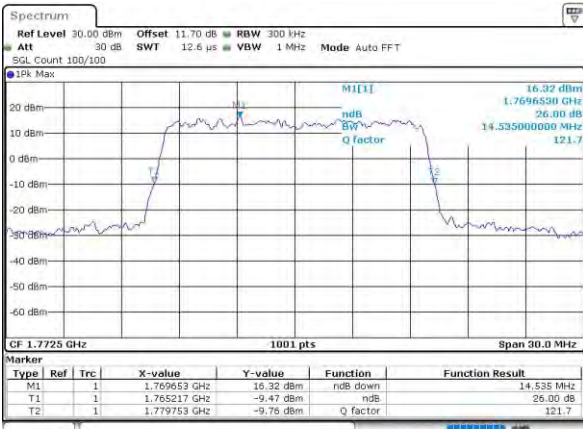
Date: 11.DEC.2016 00:24:11

Middle Channel / 15MHz / 16QAM



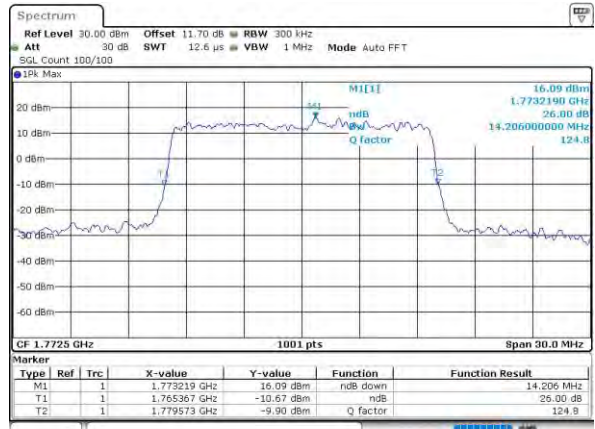
Date: 11.DEC.2016 00:24:23

Highest Channel / 15MHz / QPSK



Date: 11.DEC.2016 00:26:57

Highest Channel / 15MHz / 16QAM

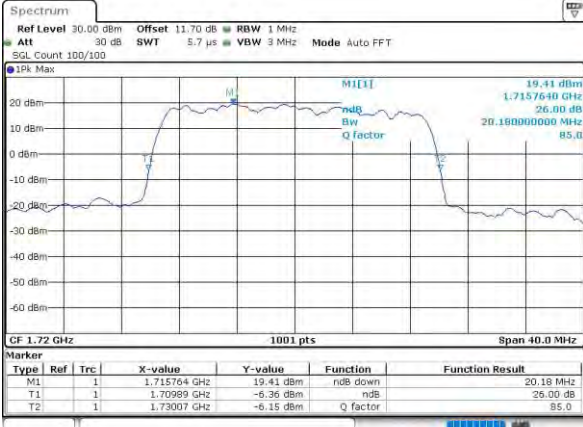


Date: 11.DEC.2016 00:27:09



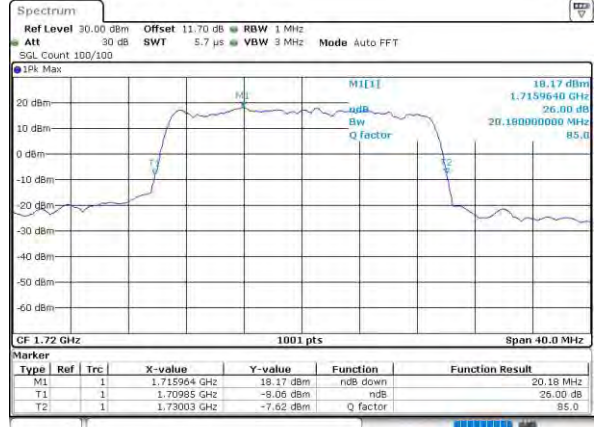
LTE Band 66

Lowest Channel / 20MHz / QPSK



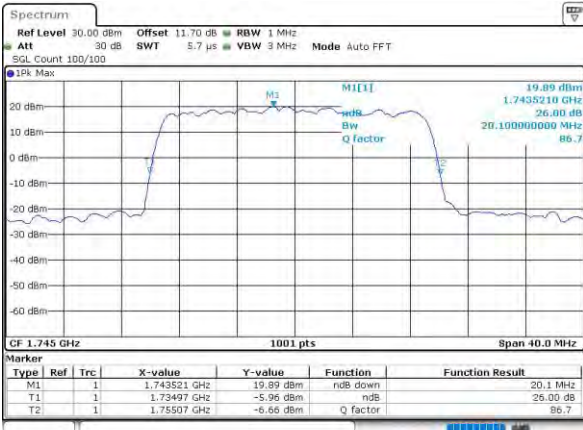
Date: 11.DEC.2016 00:33:10

Lowest Channel / 20MHz / 16QAM



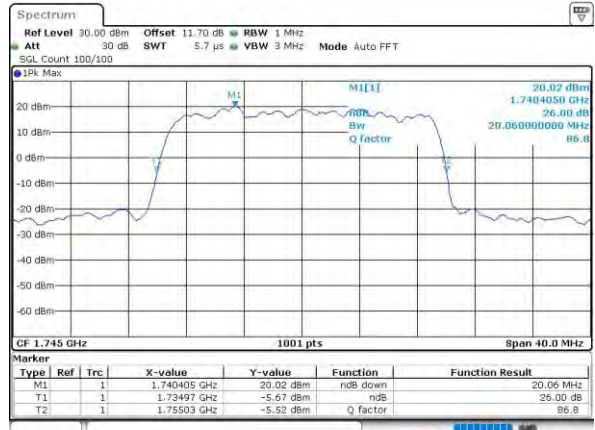
Date: 11.DEC.2016 00:33:11

Middle Channel / 20MHz / QPSK



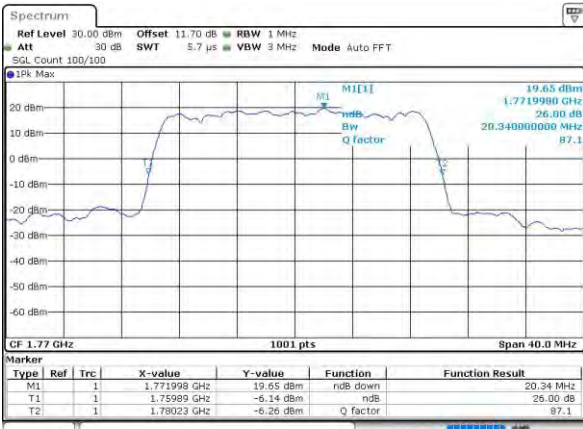
Date: 11.DEC.2016 00:39:03

Middle Channel / 20MHz / 16QAM



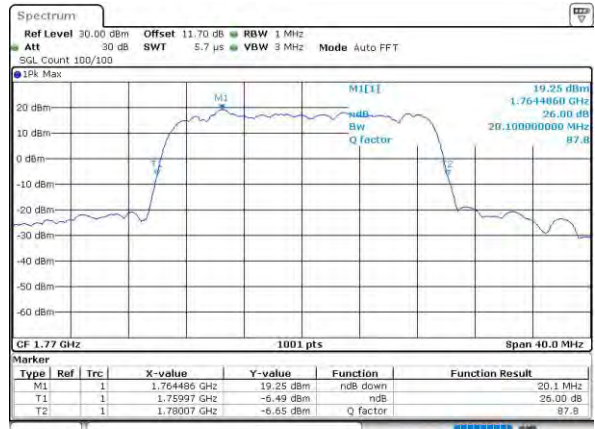
Date: 11.DEC.2016 00:39:15

Highest Channel / 20MHz / QPSK



Date: 11.DEC.2016 00:41:49

Highest Channel / 20MHz / 16QAM

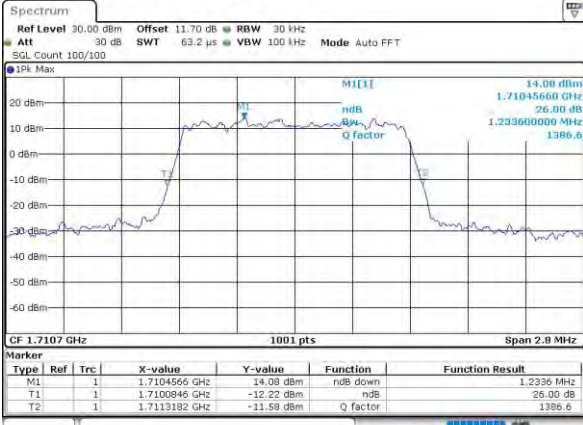


Date: 11.DEC.2016 00:42:01



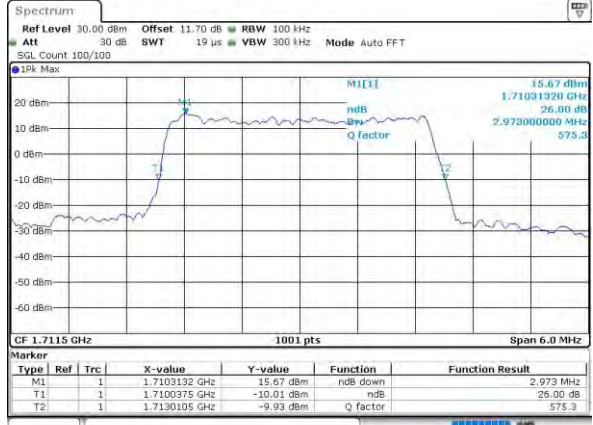
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



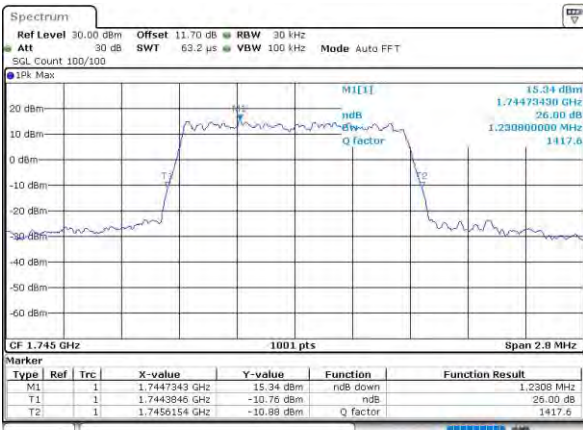
Date: 10 DEC 2016 23:29:05

Lowest Channel / 3MHz / 64QAM



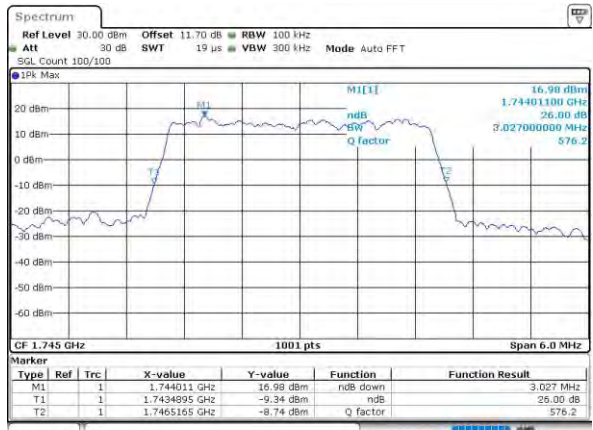
Date: 11 DEC 2016 00:47:41

Middle Channel / 20MHz / 64QAM



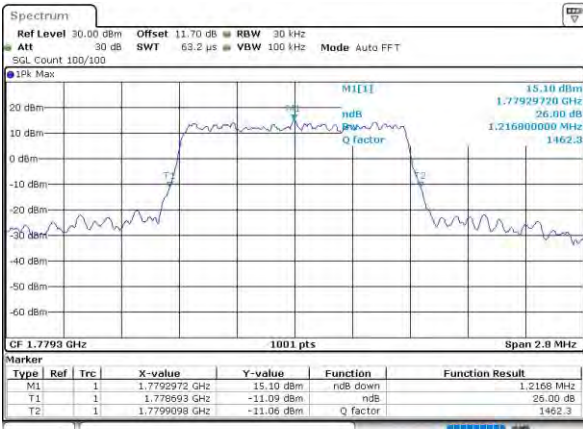
Date: 10 DEC 2016 23:29:32

Middle Channel / 3MHz / 64QAM



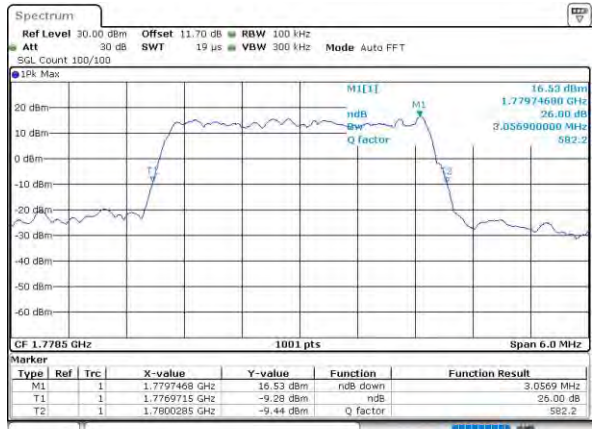
Date: 11 DEC 2016 00:20:43

Highest Channel / 20MHz / 64QAM



Date: 10 DEC 2016 23:29:55

Highest Channel / 3MHz / 64QAM

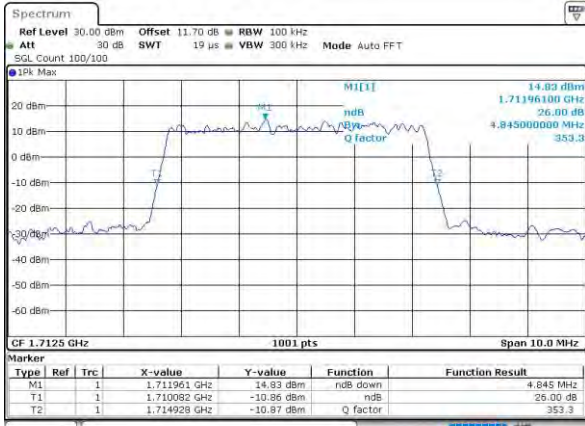


Date: 11 DEC 2016 00:52:06



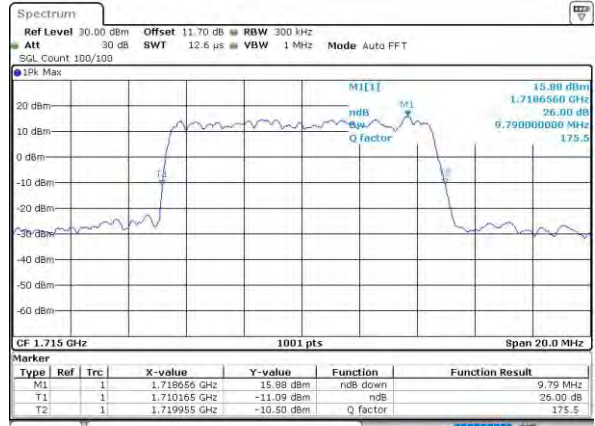
LTE Band 66

Lowest Channel / 5MHz / 64QAM



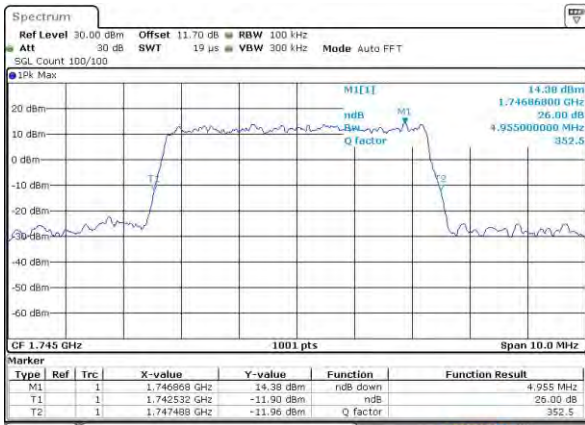
Date: 11.DEC.2016 00:55:07

Lowest Channel / 10MHz / 64QAM



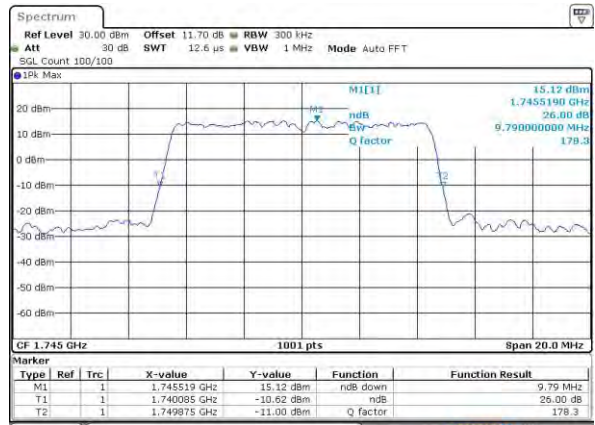
Date: 11.DEC.2016 01:02:38

Middle Channel / 5MHz / 64QAM



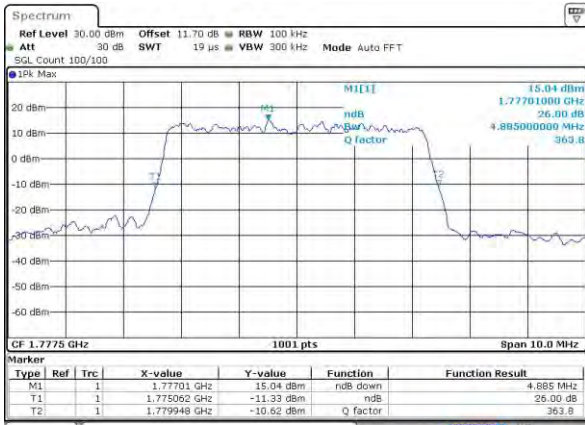
Date: 11.DEC.2016 00:58:09

Middle Channel / 10MHz / 64QAM



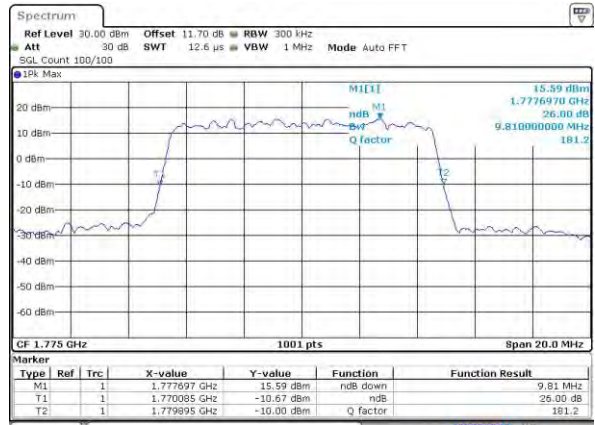
Date: 11.DEC.2016 01:05:16

Highest Channel / 5MHz / 64QAM



Date: 11.DEC.2016 00:59:32

Highest Channel / 10MHz / 64QAM

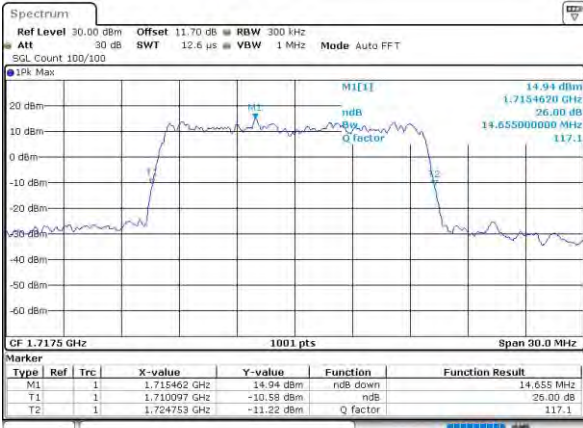


Date: 11.DEC.2016 01:06:59



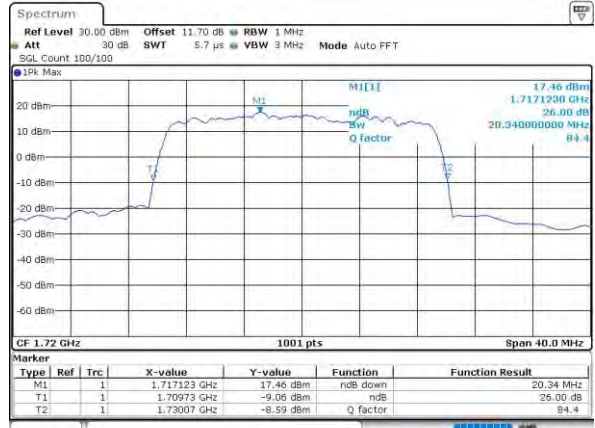
LTE Band 66

Lowest Channel / 15MHz / 64QAM



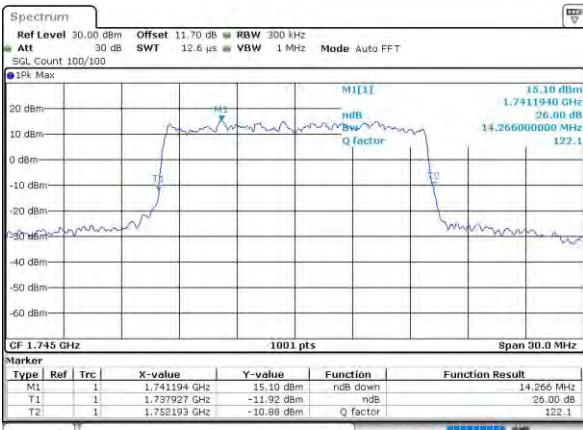
Date: 11.DEC.2016 01:16:00

Lowest Channel / 20MHz / 64QAM



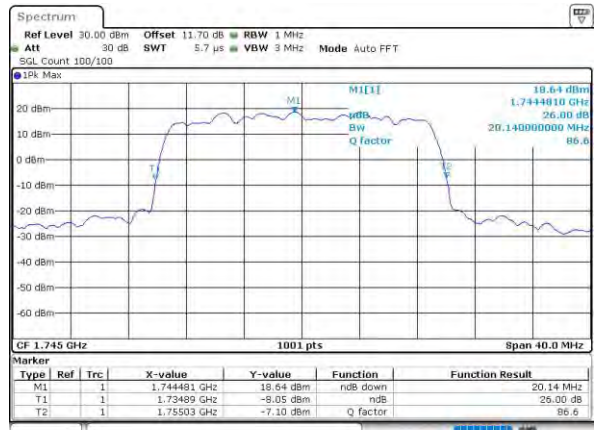
Date: 11.DEC.2016 01:17:26

Middle Channel / 15MHz / 64QAM



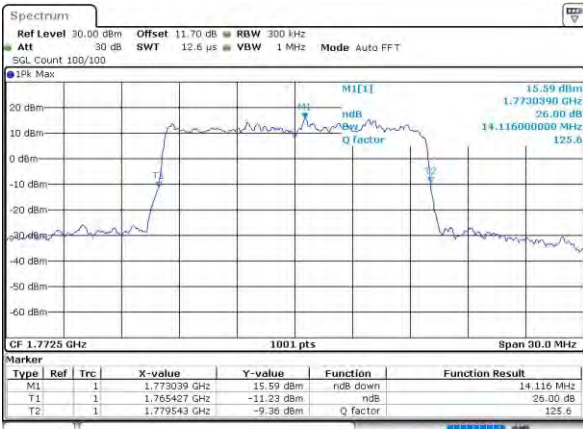
Date: 11.DEC.2016 01:13:01

Middle Channel / 20MHz / 64QAM



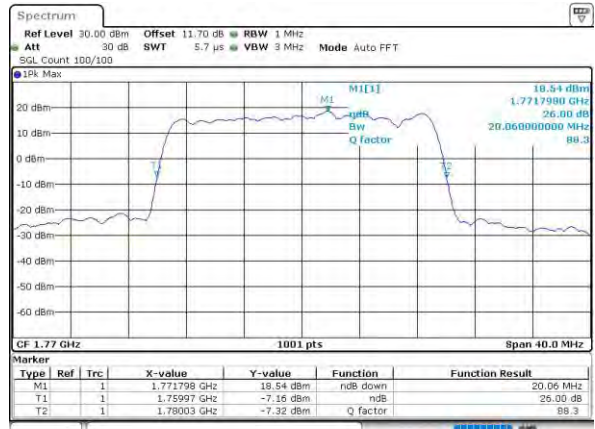
Date: 11.DEC.2016 01:20:47

Highest Channel / 15MHz / 64QAM



Date: 11.DEC.2016 01:14:24

Highest Channel / 20MHz / 64QAM



Date: 11.DEC.2016 01:21:50



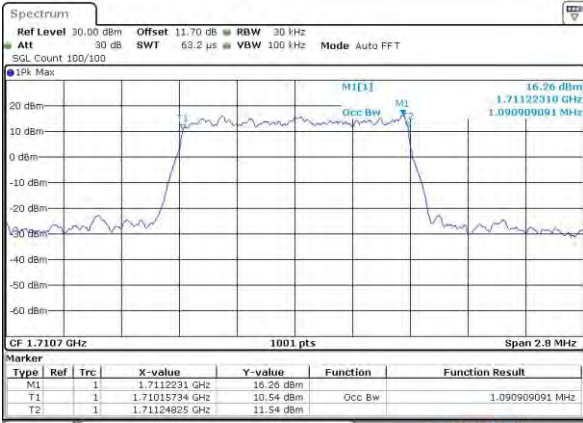
Occupied Bandwidth

Mode	LTE Band 66 : 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	2.73	2.7	4.48	4.49	9.01	9.03	13.43	13.46	18.38	18.42
Middle CH	1.09	1.09	2.73	2.72	4.51	4.47	9.07	9.01	13.46	13.37	18.3	18.38
Highest CH	1.1	1.09	2.74	2.72	4.51	4.48	9.03	9.03	13.43	13.34	18.46	18.34
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.08	-	2.72	-	4.49	-	8.99	-	13.46	-	18.22	-
Middle CH	1.09	-	2.72	-	4.48	-	8.99	-	13.46	-	18.30	-
Highest CH	1.10	-	2.72	-	4.50	-	8.99	-	13.40	-	18.30	-



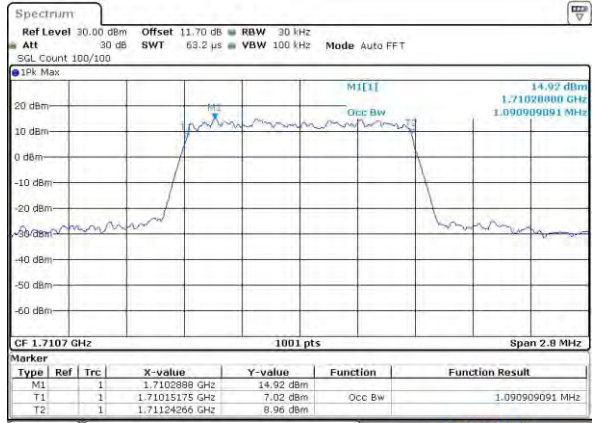
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



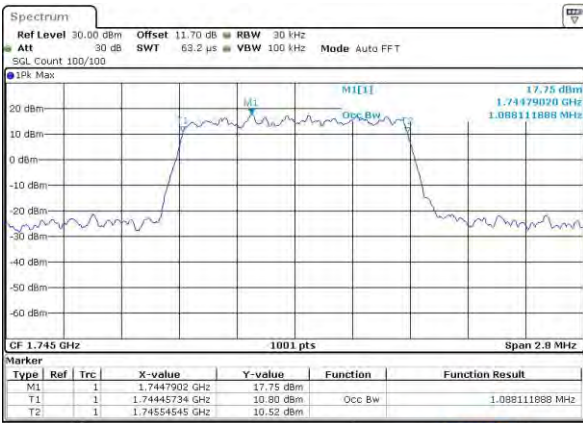
Date: 10_DEC_2016 23:10:22

Lowest Channel / 1.4MHz / 16QAM



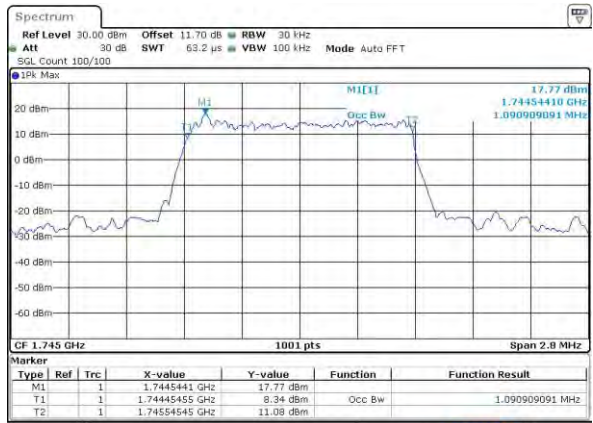
Date: 10_DEC_2016 23:10:33

Middle Channel / 1.4MHz / QPSK



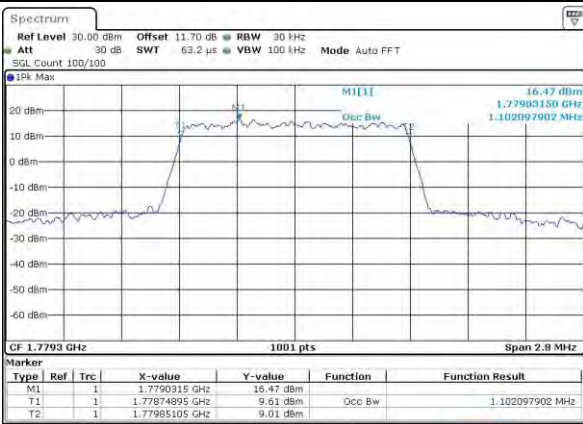
Date: 10_DEC_2016 23:11:15

Middle Channel / 1.4MHz / 16QAM



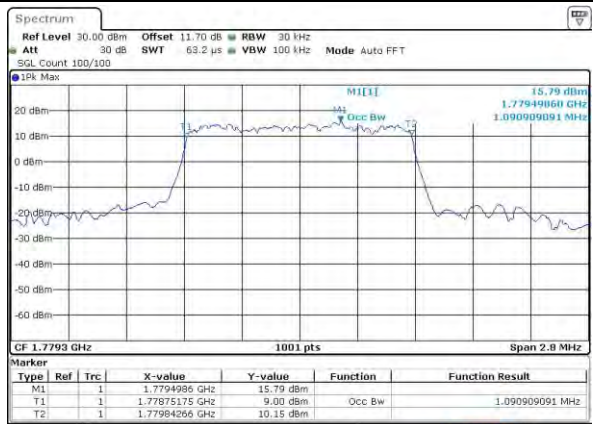
Date: 10_DEC_2016 23:11:26

Highest Channel / 1.4MHz / QPSK



Date: 10_DEC_2016 23:11:01

Highest Channel / 1.4MHz / 16QAM

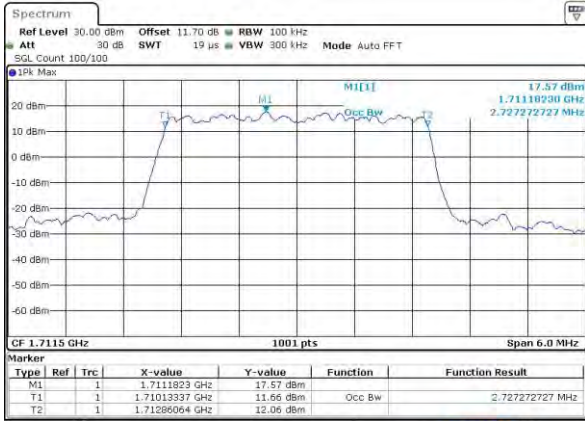


Date: 10_DEC_2016 23:11:12



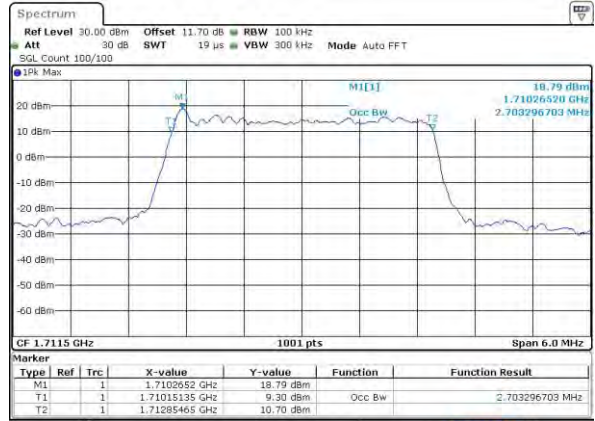
LTE Band 66

Lowest Channel / 3MHz / QPSK



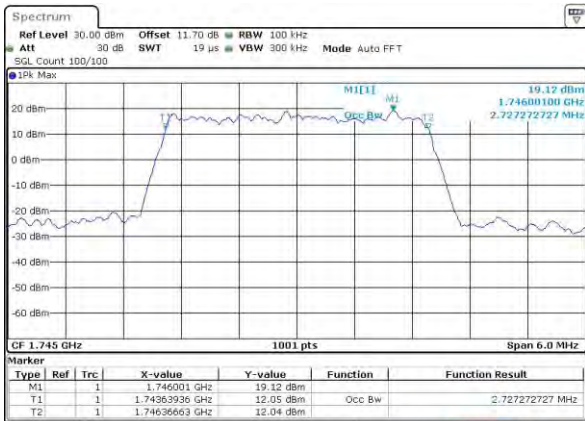
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Lowest Channel / 3MHz / 16QAM



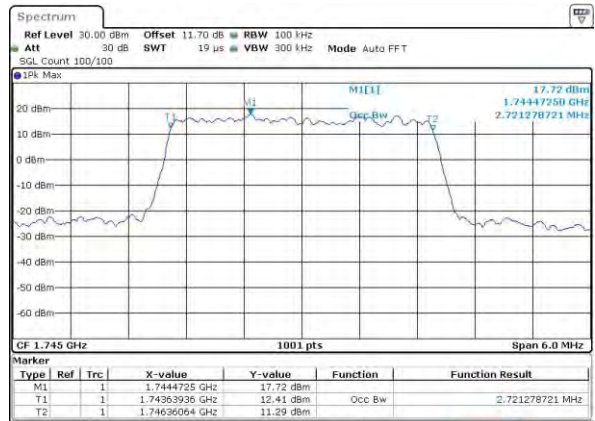
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Middle Channel / 3MHz / QPSK



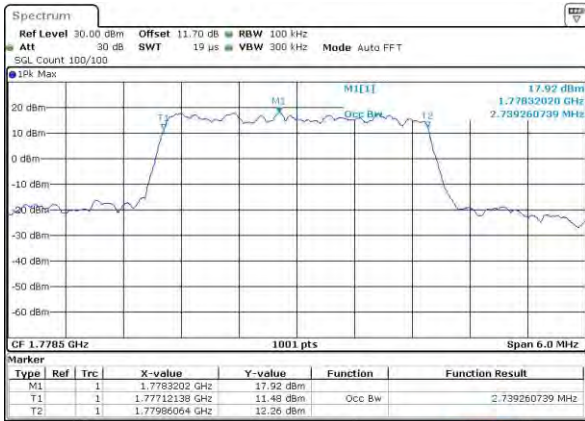
Date: 10 DEC 2016 23:39:13

Middle Channel / 3MHz / 16QAM



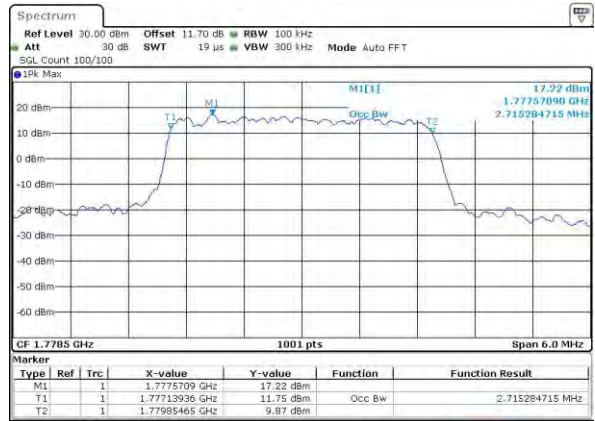
Date: 10 DEC 2016 23:39:25

Highest Channel / 3MHz / QPSK



Date: 10 DEC 2016 23:41:59

Highest Channel / 3MHz / 16QAM



Date: 10 DEC 2016 23:42:10