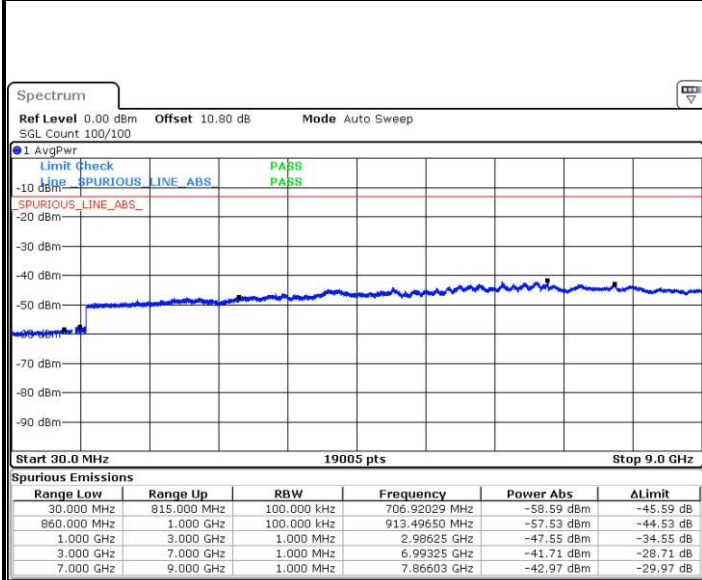




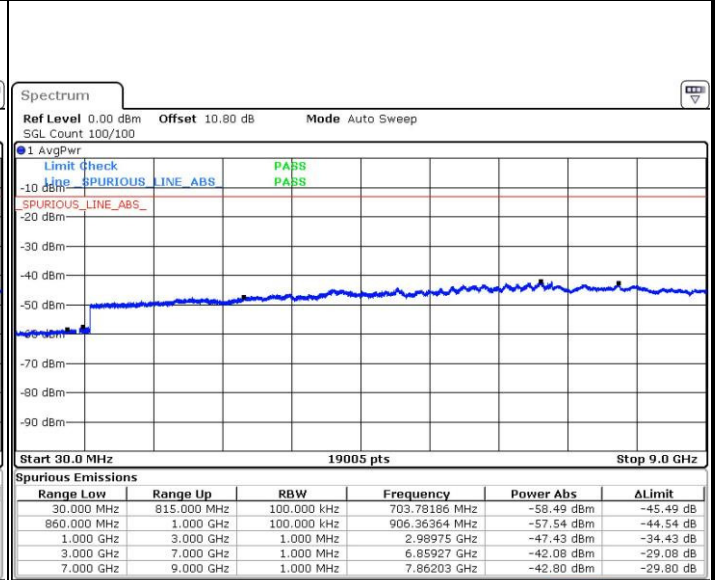
LTE Band 5 / 10MHz

Middle Channel / QPSK



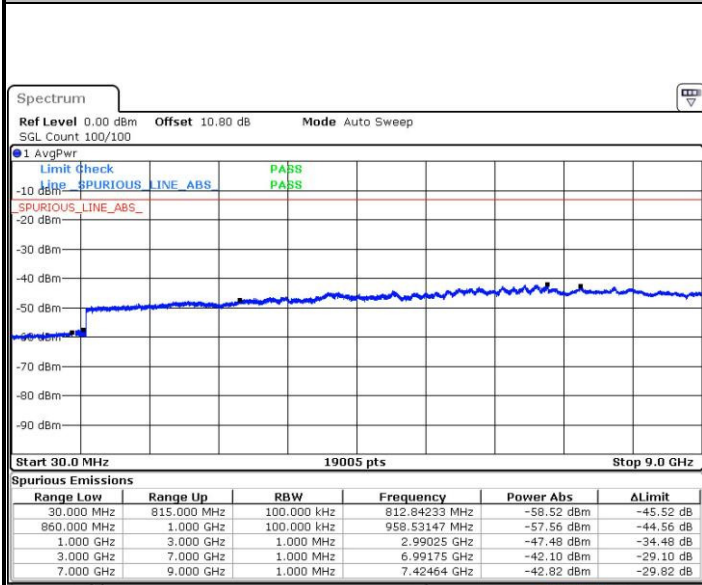
Date: 20 APR 2017 19:34:30

Middle Channel / 16QAM



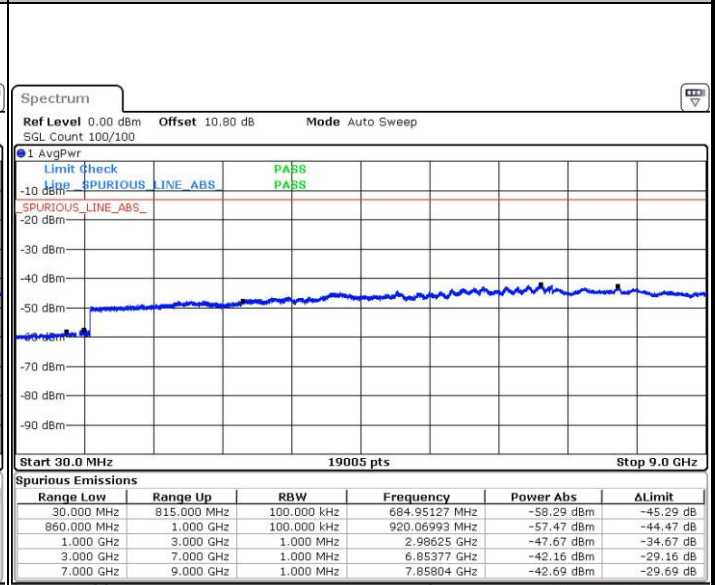
Date: 20 APR 2017 19:35:25

Highest Channel / QPSK



Date: 20 APR 2017 19:43:37

Highest Channel / 16QAM

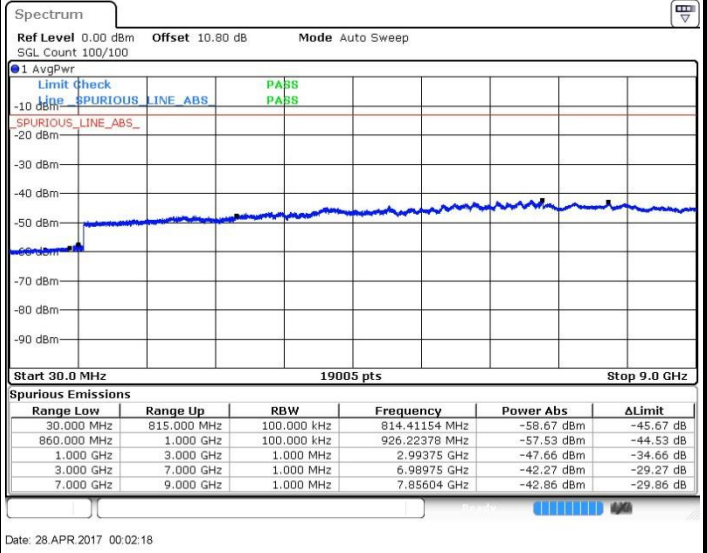


Date: 20 APR 2017 19:44:31

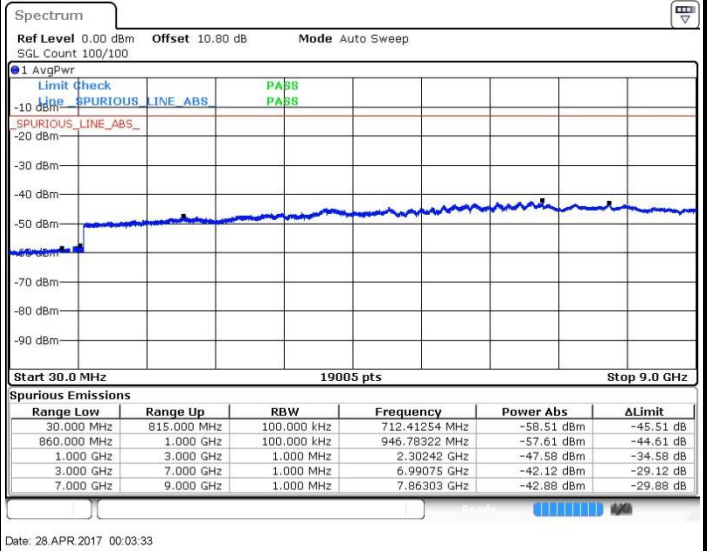


LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



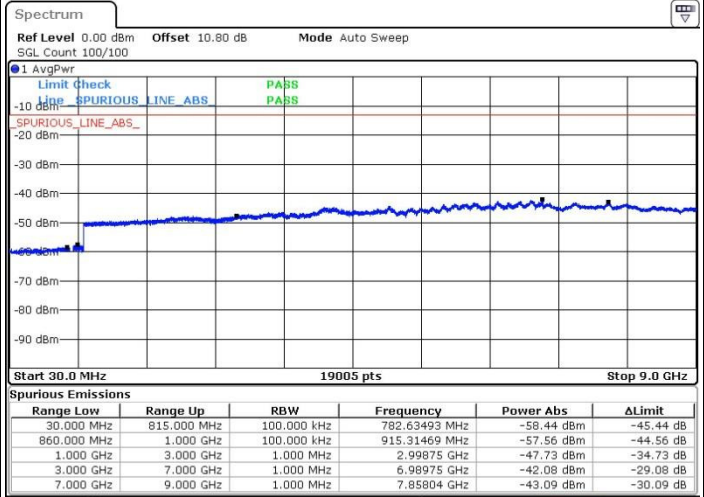
Middle Channel / 64QAM





LTE Band 5 / 1.4MHz

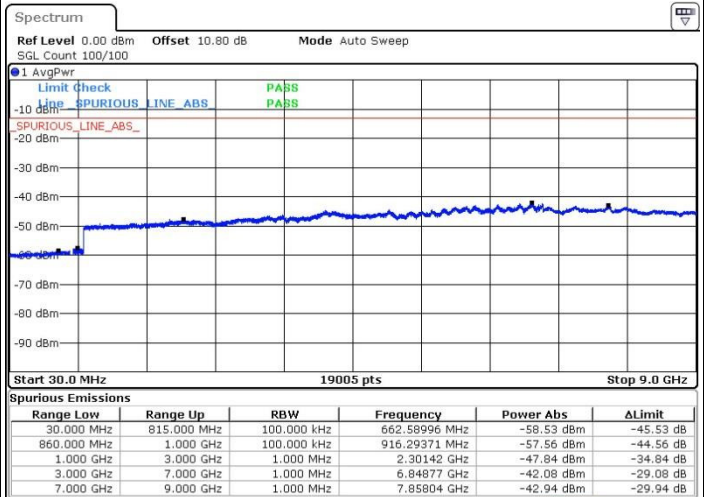
Highest Channel / 64QAM



Date: 28.APR.2017 00:08:06

LTE Band 5 / 3MHz

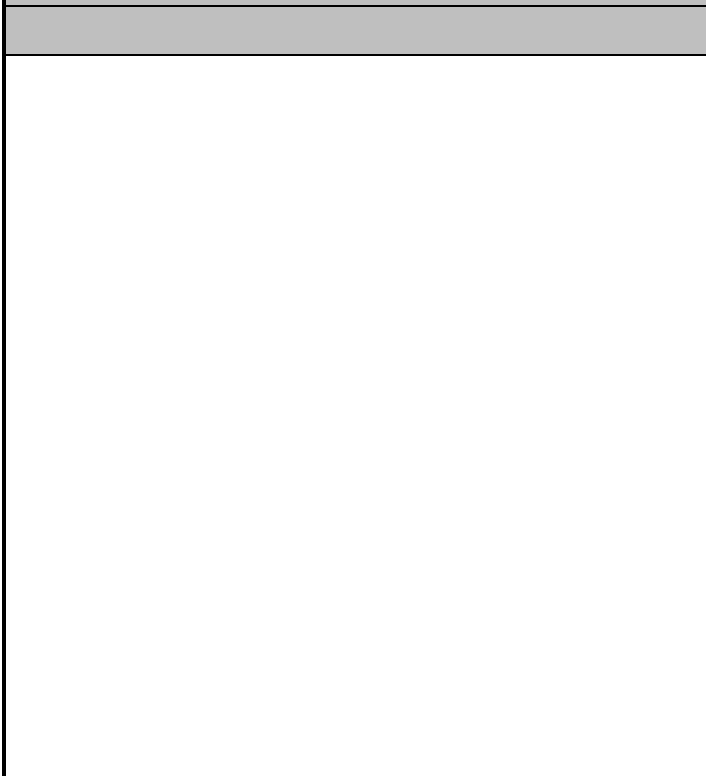
Lowest Channel / 64QAM



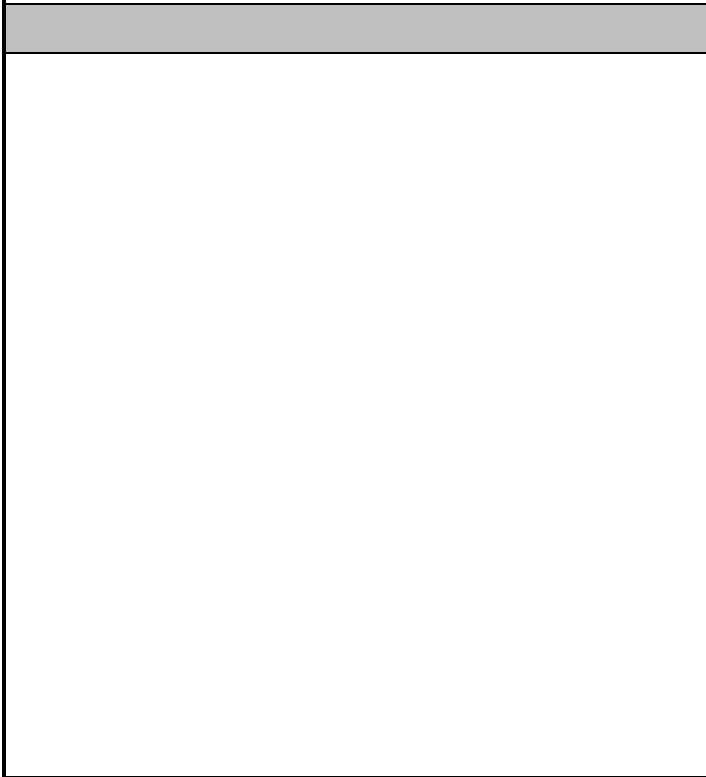
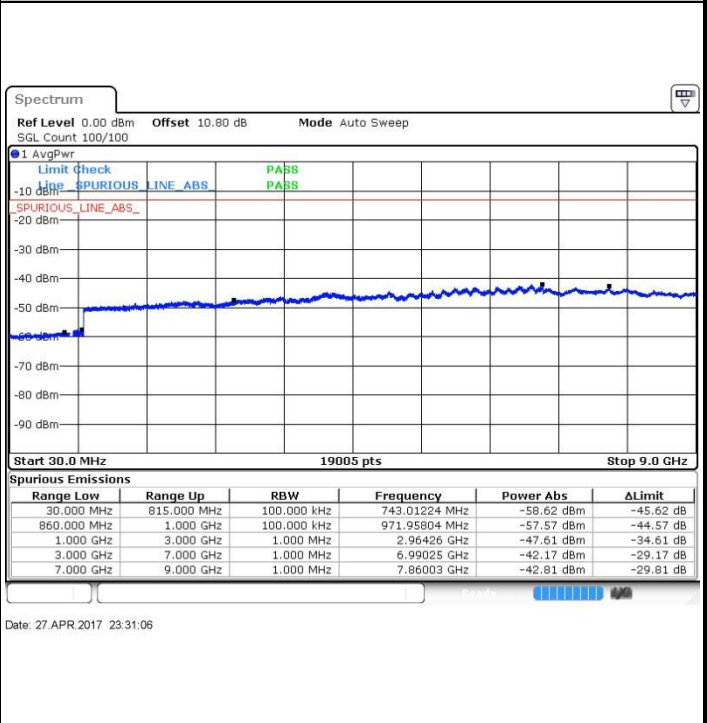
Date: 27.APR.2017 23:29:51



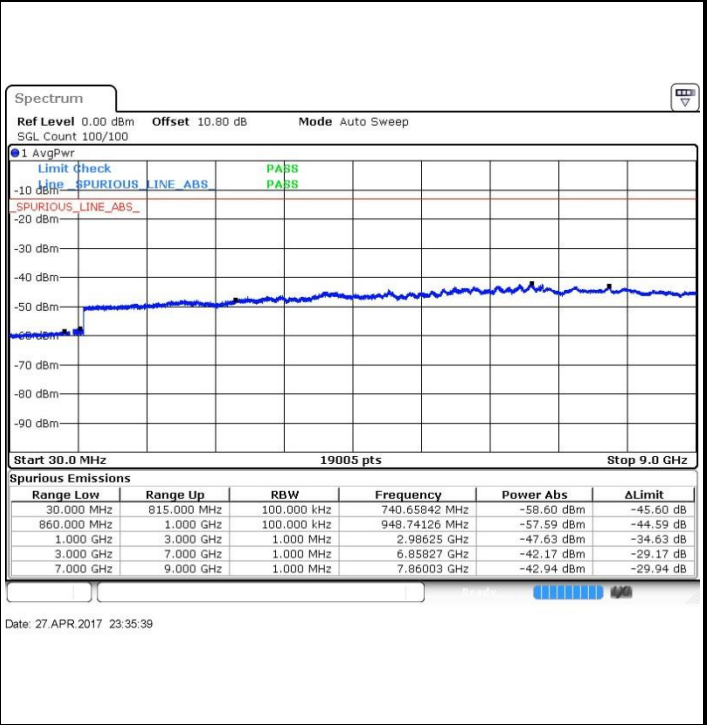
LTE Band 5 / 3MHz



Middle Channel / 64QAM



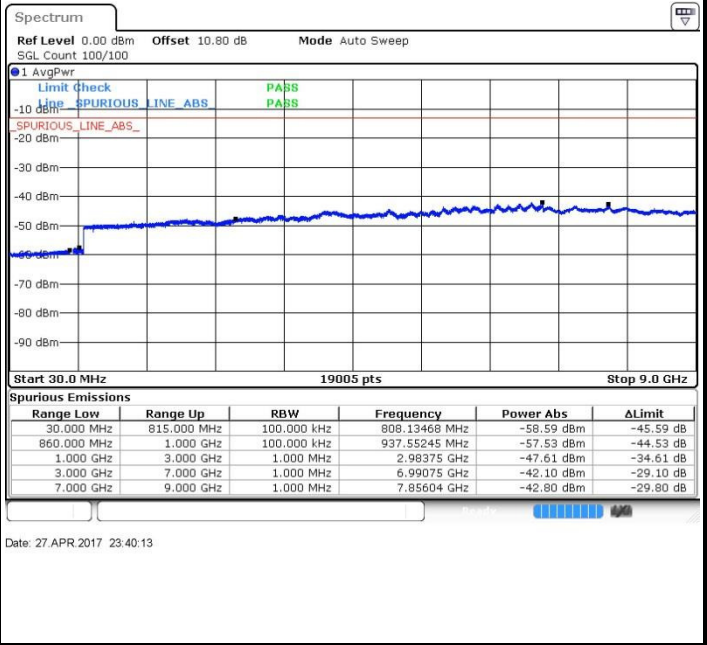
Highest Channel / 64QAM



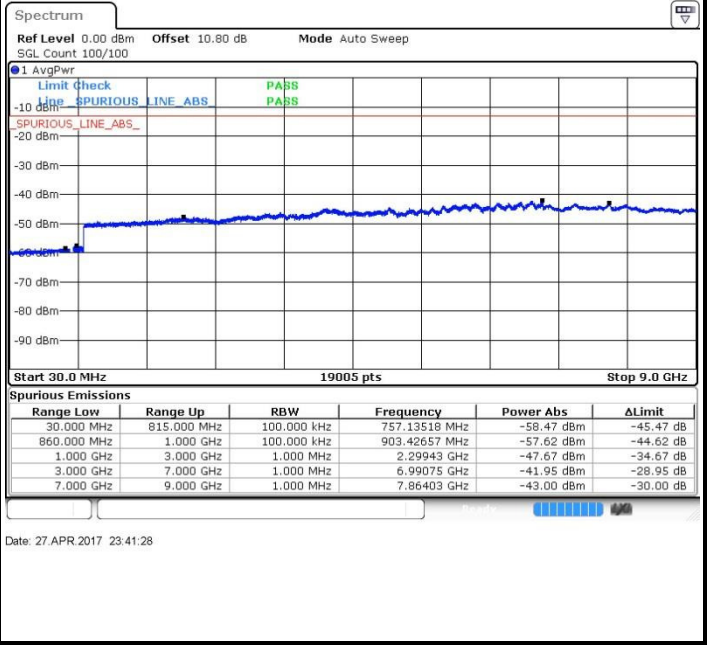


LTE Band 5 / 5MHz

Lowest Channel / 64QAM



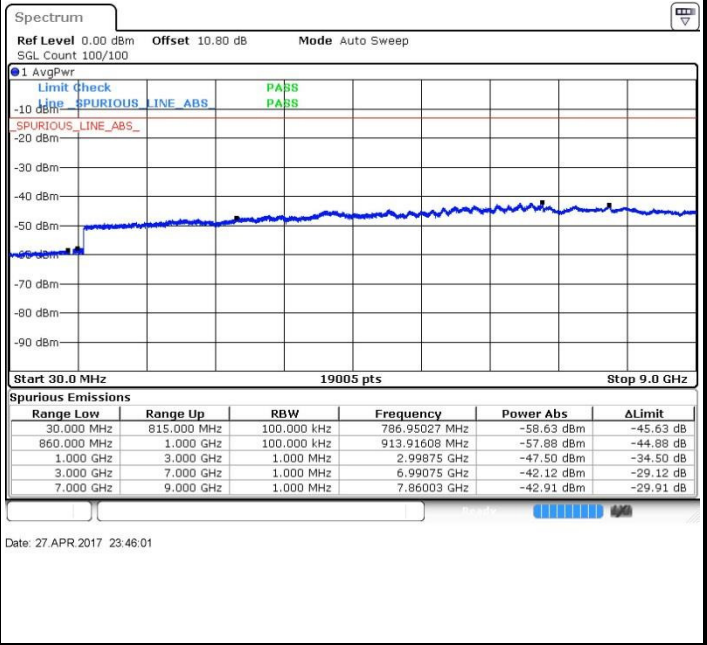
Middle Channel / 64QAM





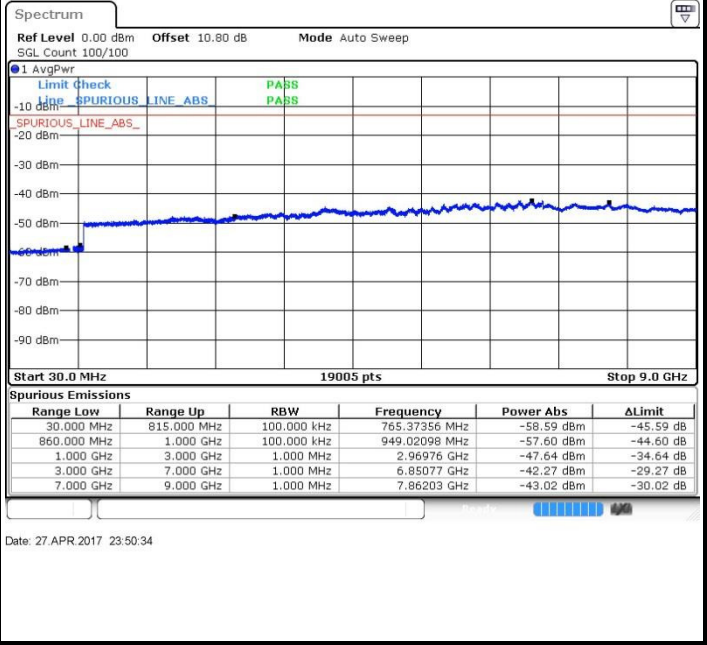
LTE Band 5 / 5MHz

Highest Channel / 64QAM



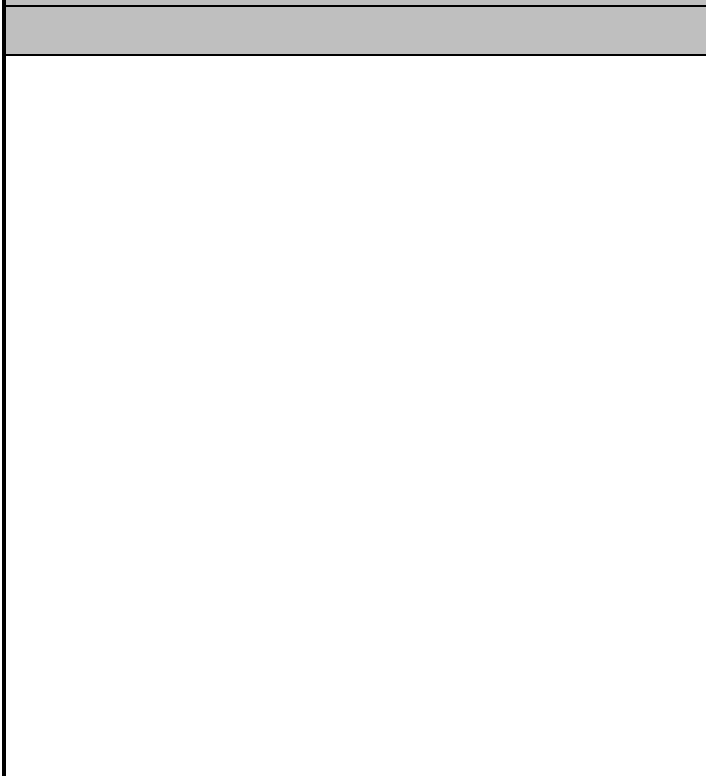
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

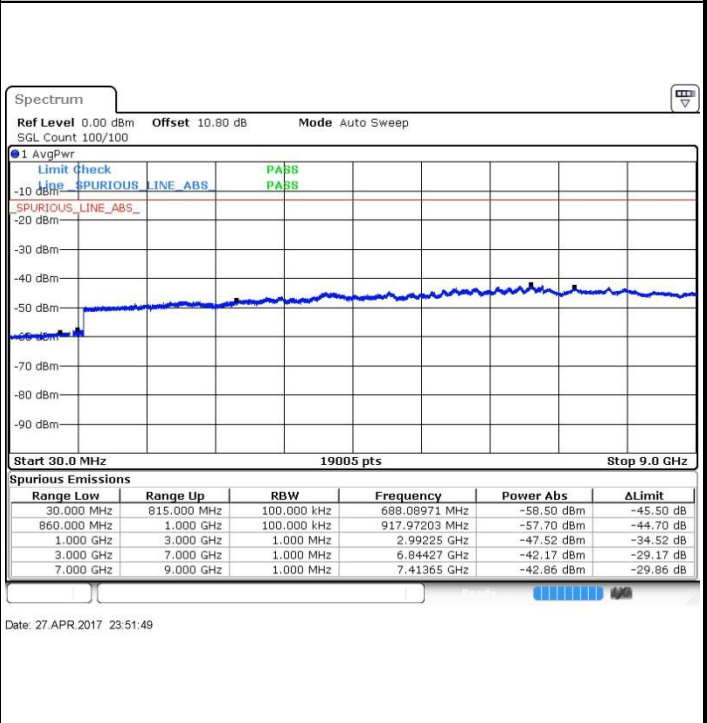




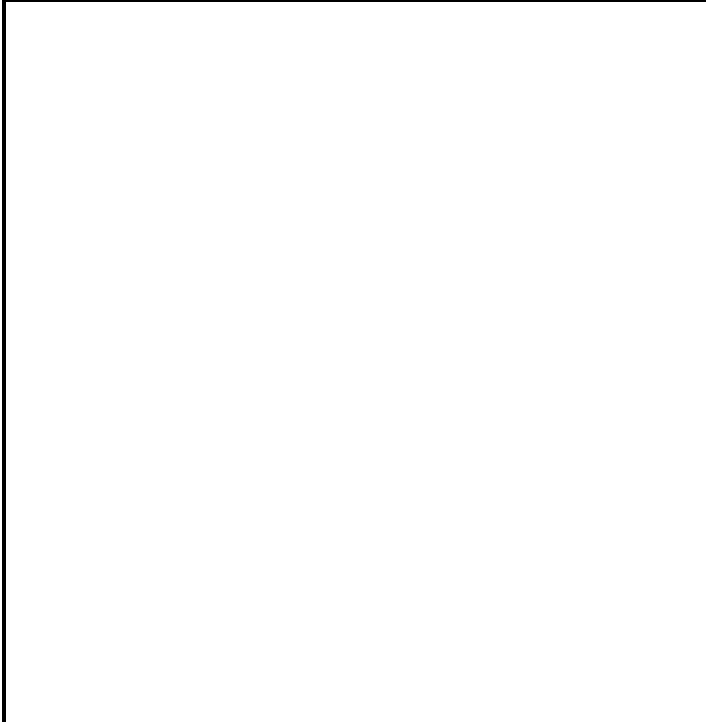
LTE Band 5 / 10MHz



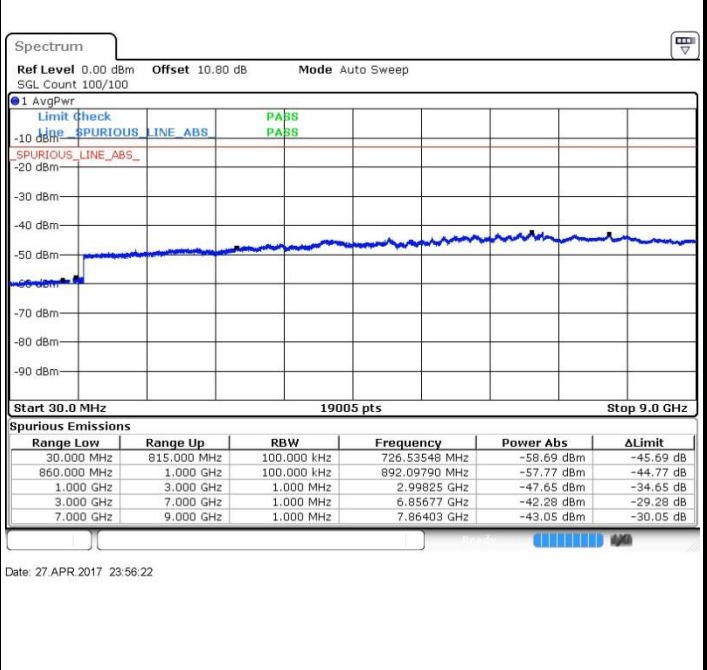
Middle Channel / 64QAM



Highest Channel / 64QAM



Highest Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0079	PASS
40	Normal Voltage	0.0067	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0072	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0079	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0071	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.8 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 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.61	4.67	5.45	5.77	PASS
Middle CH	4.61	5.28	5.57	6	
Highest CH	4.29	4.99	5.04	5.86	
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.19	5.83	PASS
Middle CH	-	-	5.28	6.14	
Highest CH	-	-	5.28	5.91	



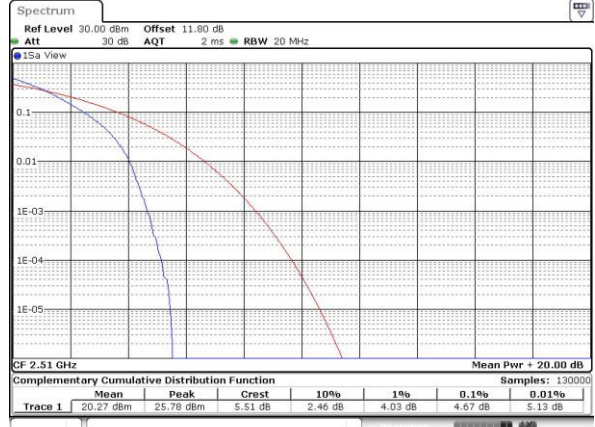
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



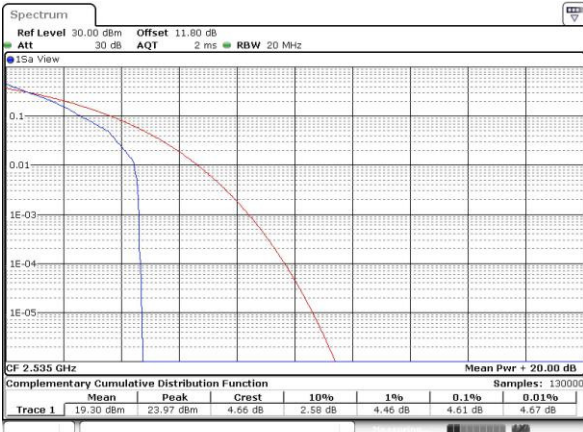
Date: 21 APR 2017 22:01:54

Lowest Channel / Full RB



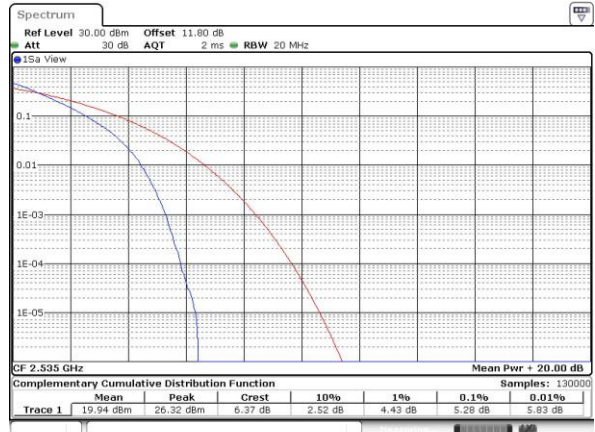
Date: 21 APR 2017 22:02:05

Middle Channel / 1RB



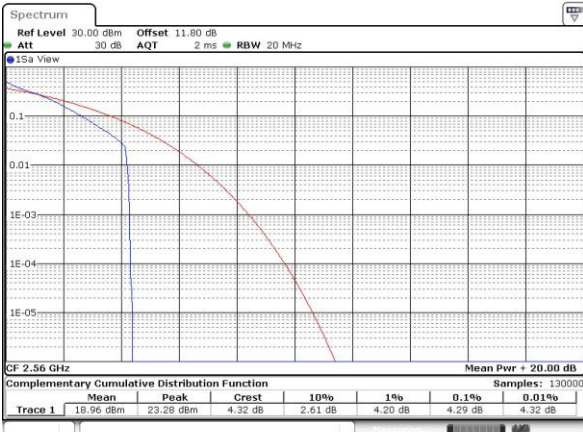
Date: 21 APR 2017 22:02:16

Middle Channel / Full RB



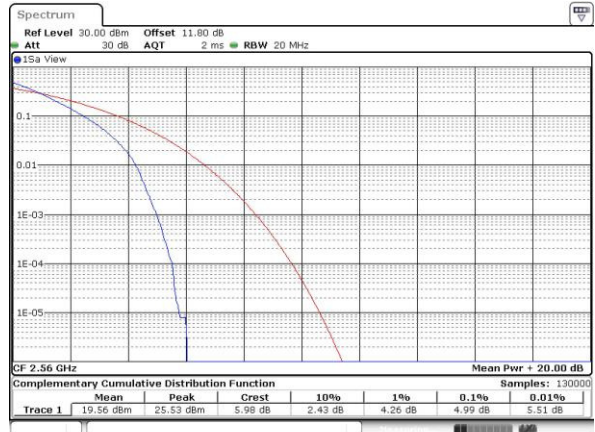
Date: 21 APR 2017 22:02:26

Highest Channel / 1RB



Date: 21 APR 2017 22:02:37

Highest Channel / Full RB

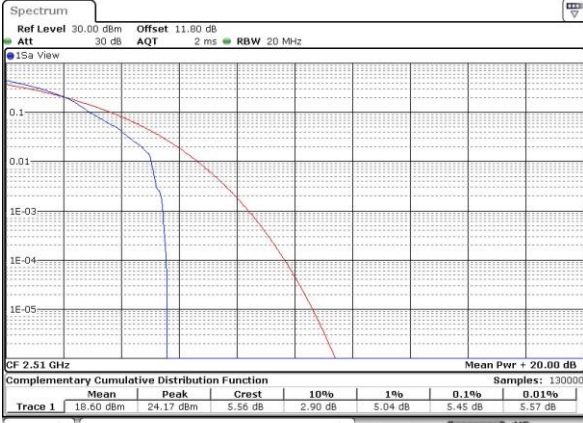


Date: 21 APR 2017 22:02:47



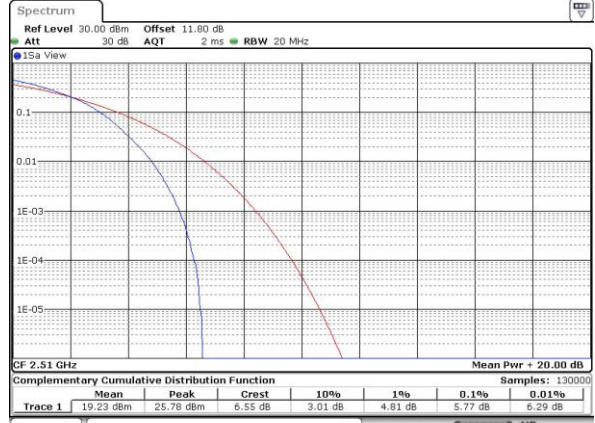
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



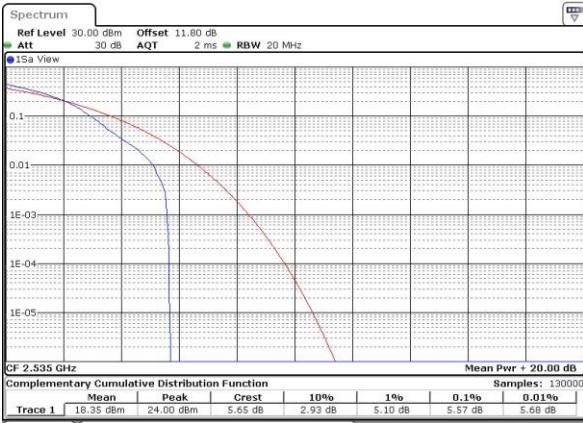
Date: 21 APR 2017 22:00:49

Lowest Channel / Full RB



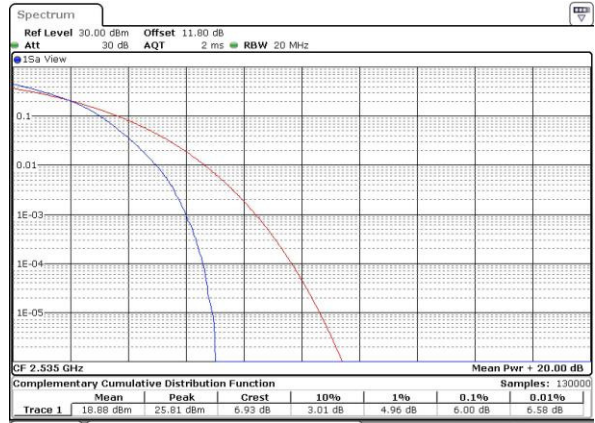
Date: 21 APR 2017 22:00:59

Middle Channel / 1RB



Date: 21 APR 2017 22:01:09

Middle Channel / Full RB



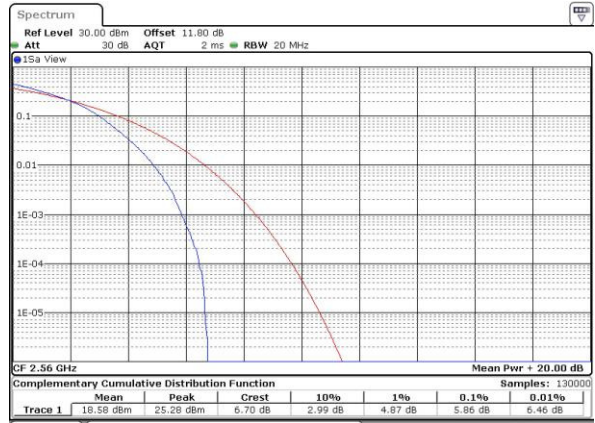
Date: 21 APR 2017 22:01:20

Highest Channel / 1RB



Date: 21 APR 2017 22:01:31

Highest Channel / Full RB



Date: 21 APR 2017 22:01:41



LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



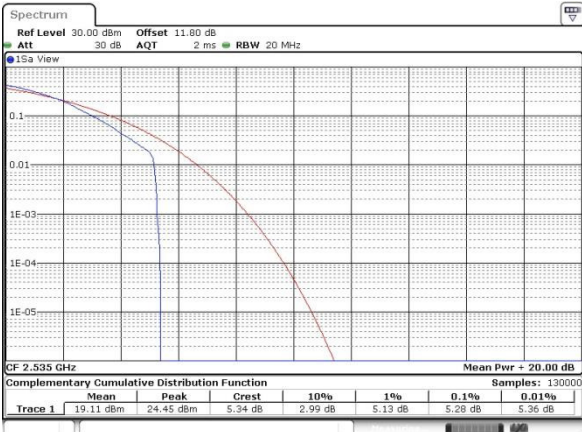
Date: 28 APR 2017 11:03:50

Lowest Channel / Full RB



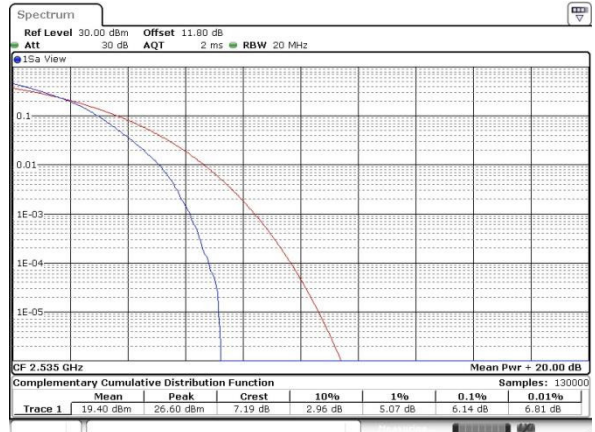
Date: 28 APR 2017 11:04:00

Middle Channel / 1RB



Date: 28 APR 2017 11:04:09

Middle Channel / Full RB



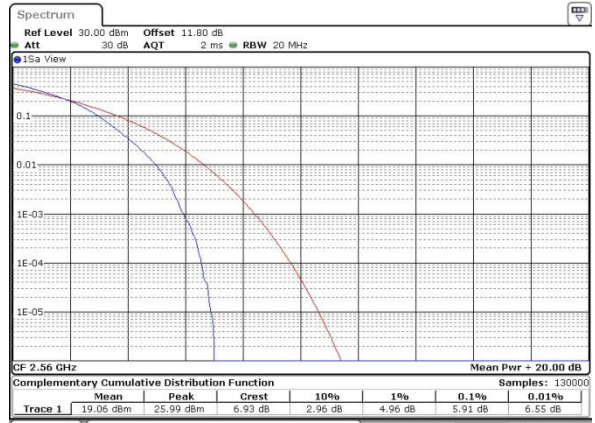
Date: 28 APR 2017 11:04:19

Highest Channel / 1RB



Date: 28 APR 2017 11:04:28

Highest Channel / Full RB



Date: 28 APR 2017 11:04:38



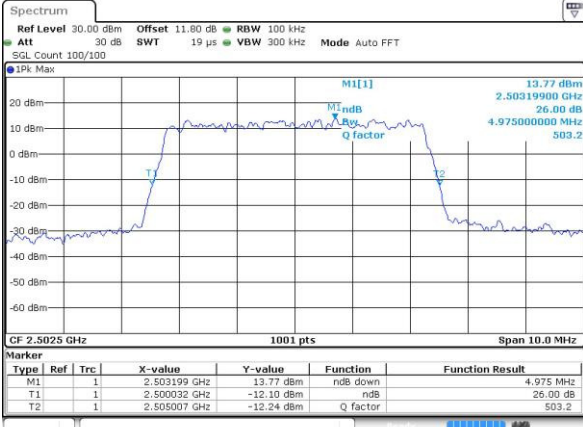
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.975	4.925	9.69	9.63	14.416	14.146	20.26	20.06
Middle CH	-	-	-	-	4.915	4.845	9.85	9.67	14.625	14.326	20.34	20.06
Highest CH	-	-	-	-	4.865	4.945	9.79	9.81	14.505	14.326	20.18	20.3
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.855	-	9.75	-	14.356	-	20.1
Middle CH	-	-	-	-	-	4.965	-	9.83	-	14.565	-	20.14
Highest CH	-	-	-	-	-	4.915	-	9.87	-	14.476	-	20.14



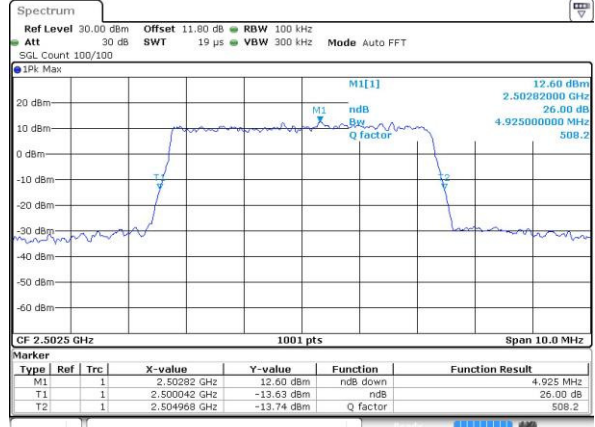
LTE Band 7

Lowest Channel / 5MHz / QPSK



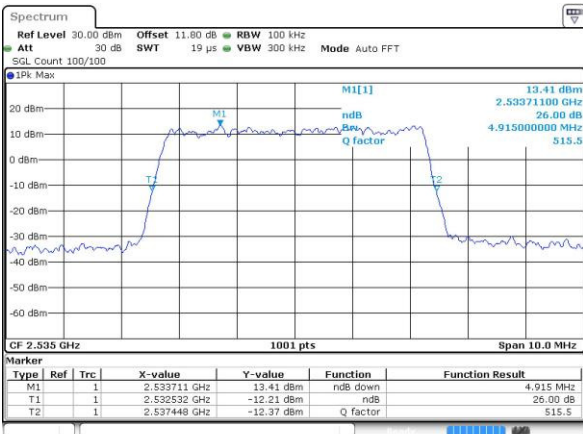
Date: 21 APR 2017 20:45:46

Lowest Channel / 5MHz / 16QAM



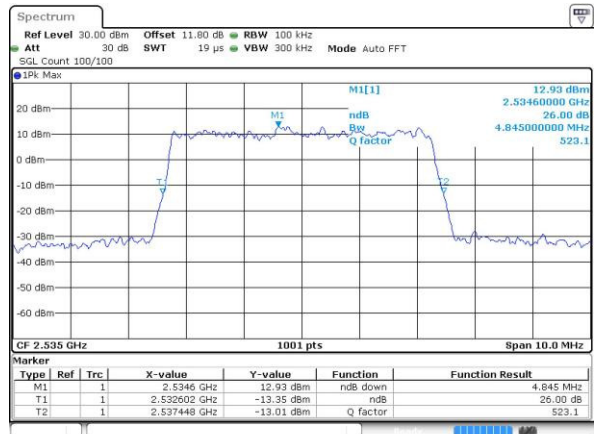
Date: 21 APR 2017 20:45:56

Middle Channel / 5MHz / QPSK



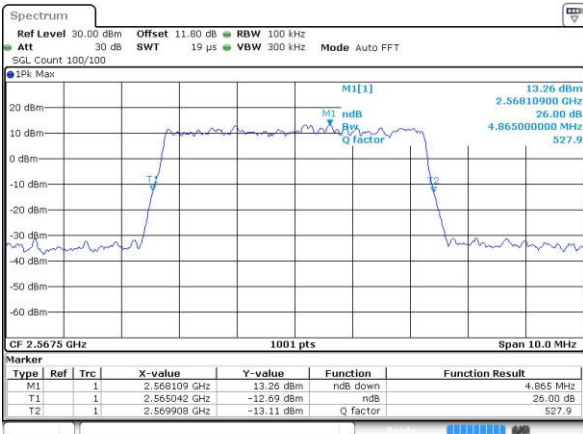
Date: 21 APR 2017 20:52:54

Middle Channel / 5MHz / 16QAM



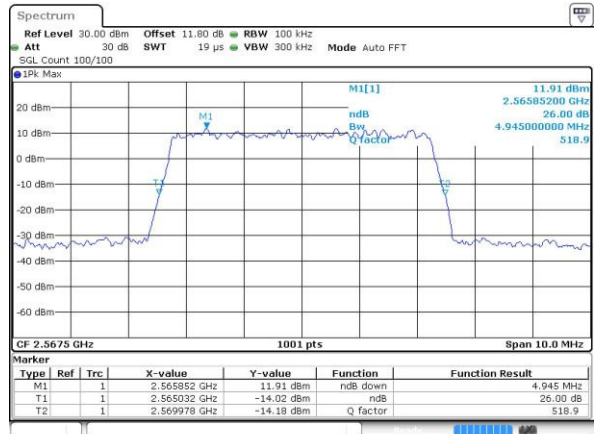
Date: 21 APR 2017 20:53:04

Highest Channel / 5MHz / QPSK



Date: 21 APR 2017 20:55:23

Highest Channel / 5MHz / 16QAM

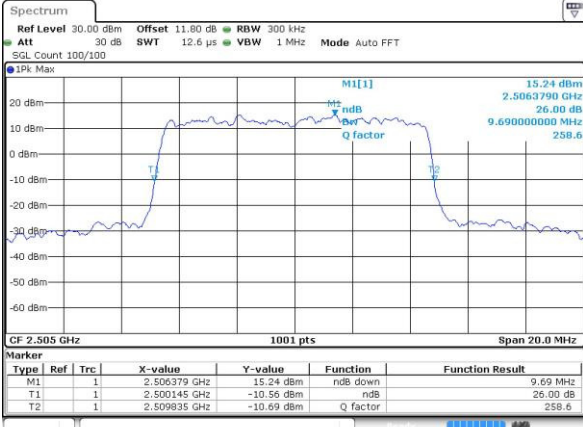


Date: 21 APR 2017 20:55:33



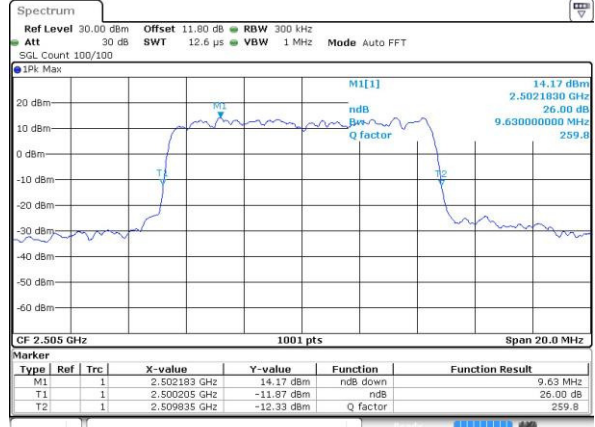
LTE Band 7

Lowest Channel / 10MHz / QPSK



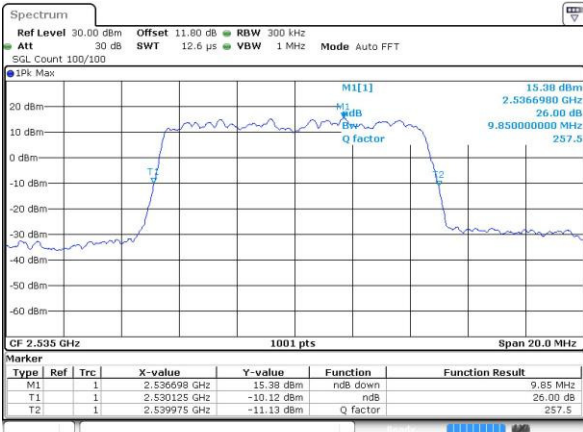
Date: 21 APR 2017 21:02:31

Lowest Channel / 10MHz / 16QAM



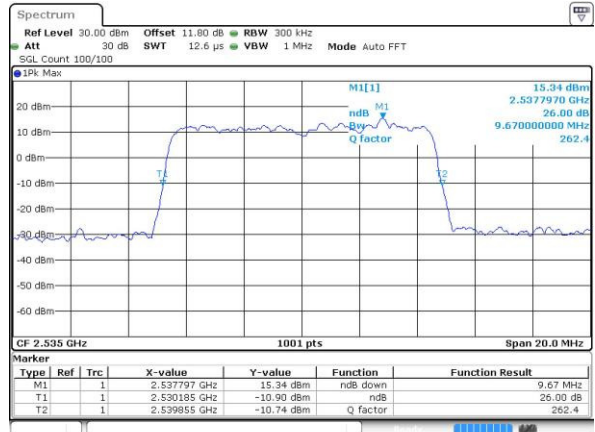
Date: 21 APR 2017 21:02:42

Middle Channel / 10MHz / QPSK



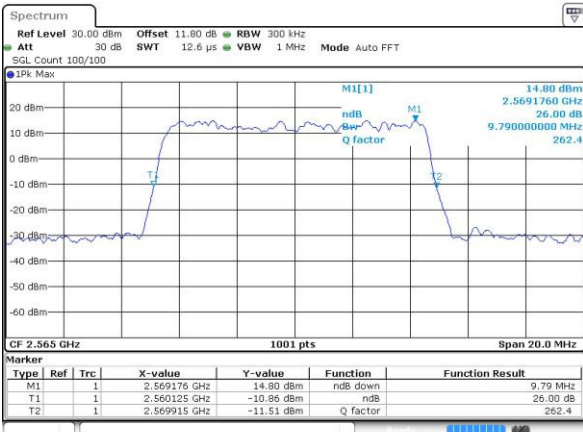
Date: 21 APR 2017 21:09:39

Middle Channel / 10MHz / 16QAM



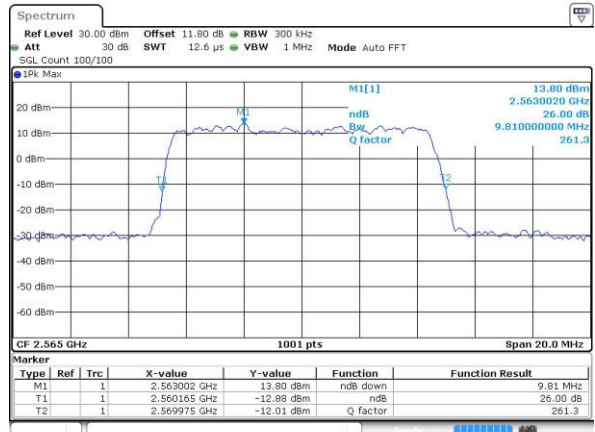
Date: 21 APR 2017 21:09:50

Highest Channel / 10MHz / QPSK



Date: 21 APR 2017 21:13:45

Highest Channel / 10MHz / 16QAM

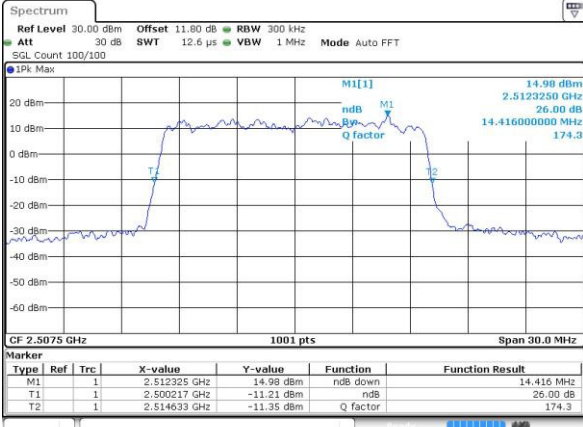


Date: 21 APR 2017 21:13:56



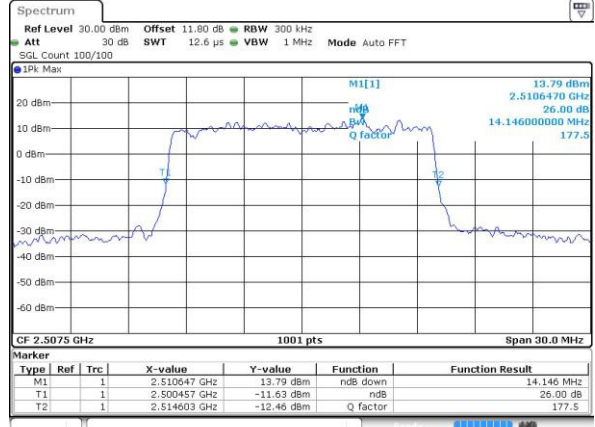
LTE Band 7

Lowest Channel / 15MHz / QPSK



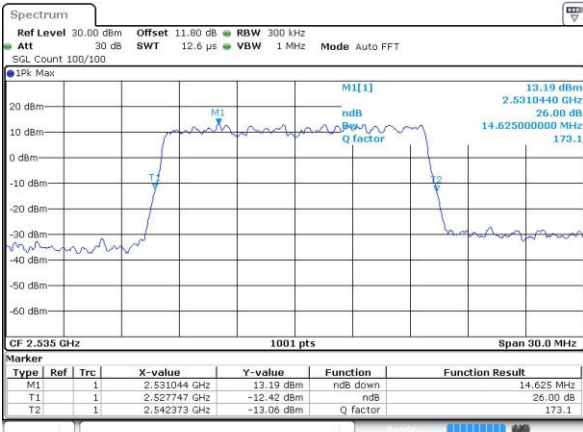
Date: 21 APR 2017 21:20:54

Lowest Channel / 15MHz / 16QAM



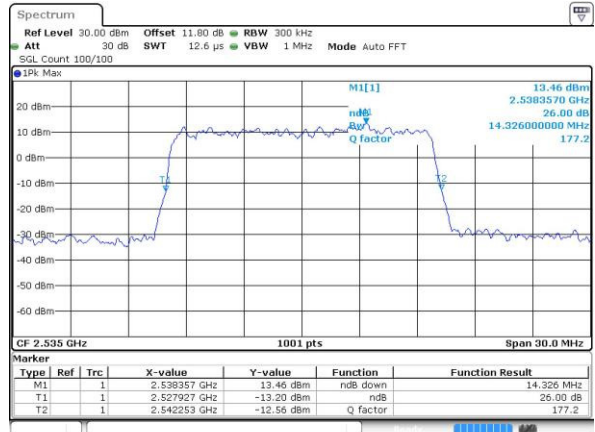
Date: 21 APR 2017 21:21:04

Middle Channel / 15MHz / QPSK



Date: 21 APR 2017 21:28:02

Middle Channel / 15MHz / 16QAM



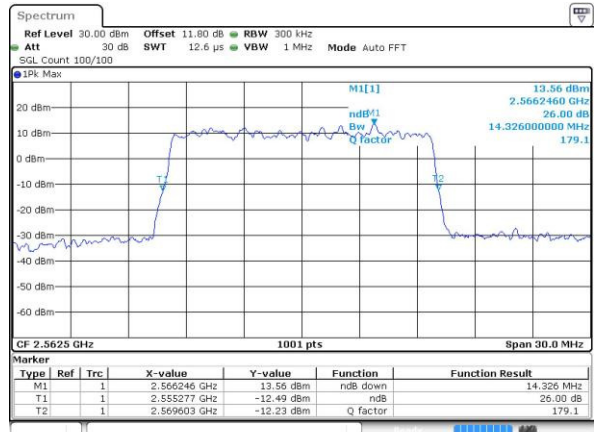
Date: 21 APR 2017 21:28:12

Highest Channel / 15MHz / QPSK



Date: 21 APR 2017 21:30:31

Highest Channel / 15MHz / 16QAM

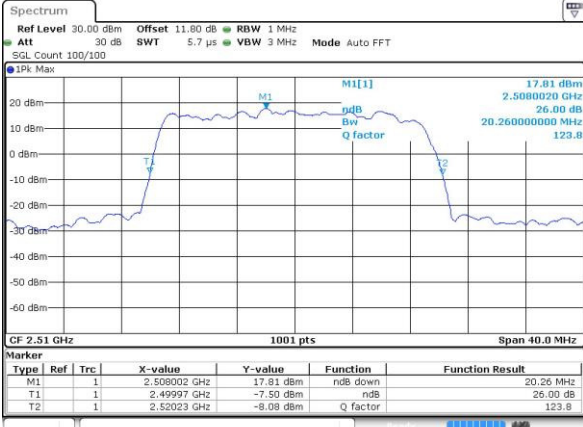


Date: 21 APR 2017 21:30:41



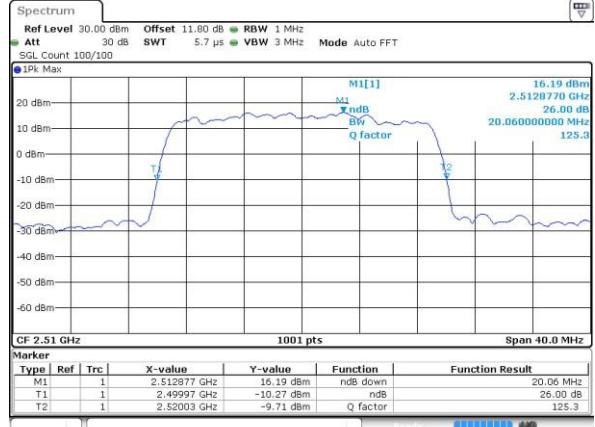
LTE Band 7

Lowest Channel / 20MHz / QPSK



Date: 21 APR 2017 21:37:39

Lowest Channel / 20MHz / 16QAM



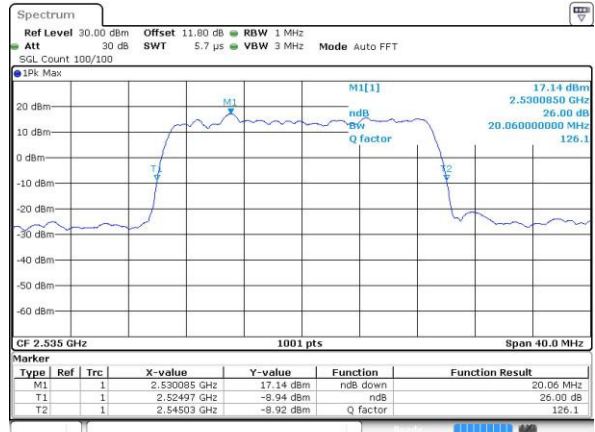
Date: 21 APR 2017 21:37:49

Middle Channel / 20MHz / QPSK



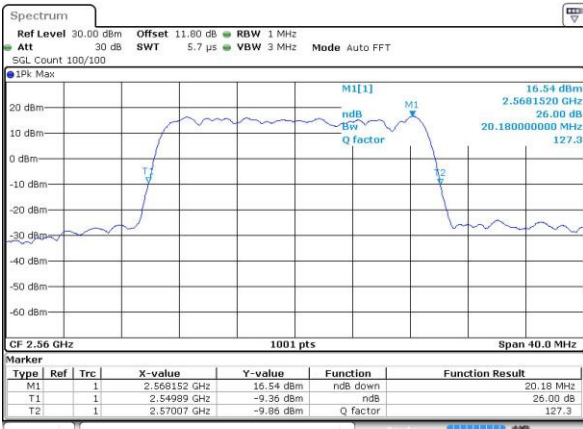
Date: 21 APR 2017 21:45:21

Middle Channel / 20MHz / 16QAM



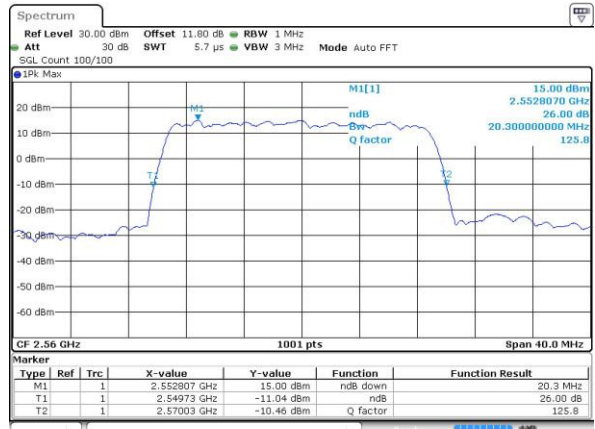
Date: 21 APR 2017 21:45:32

Highest Channel / 20MHz / QPSK



Date: 21 APR 2017 21:47:50

Highest Channel / 20MHz / 16QAM

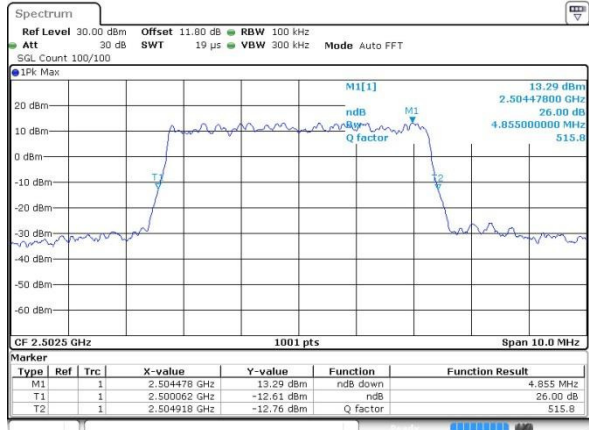


Date: 21 APR 2017 21:48:01



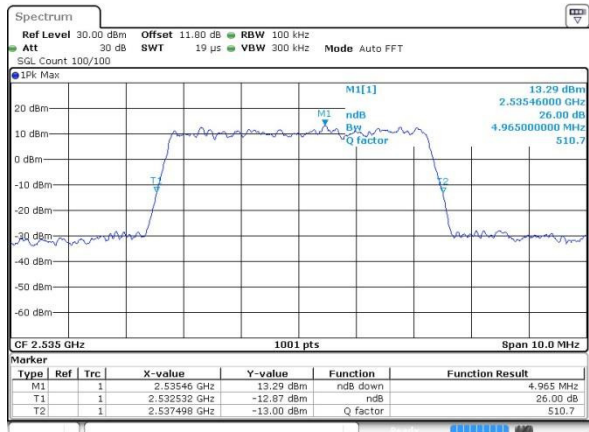
LTE Band 7

Lowest Channel / 5MHz / 64QAM



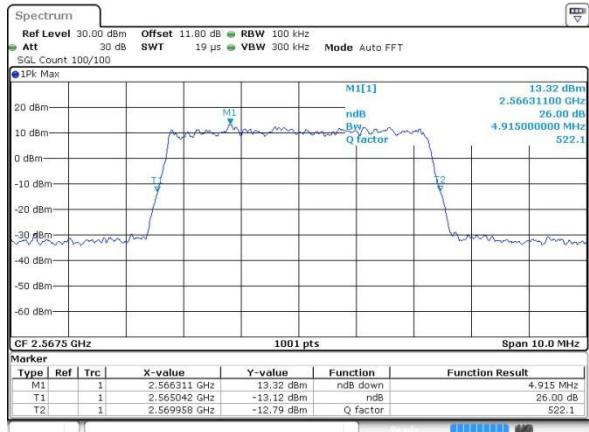
Date: 28 APR 2017 10 18 53

Middle Channel / 5MHz / 64QAM



Date: 28 APR 2017 10 22 27

Highest Channel / 5MHz / 64QAM

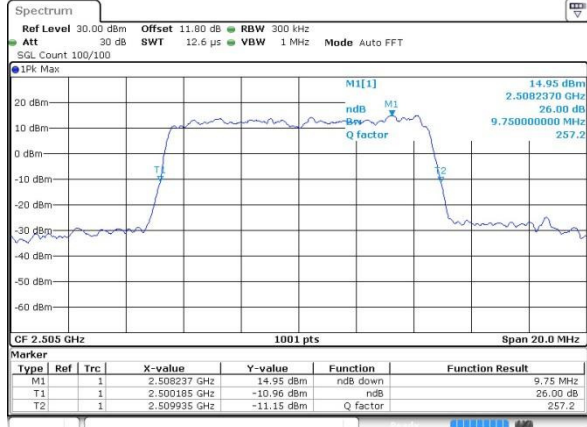


Date: 28 APR 2017 10 23 42



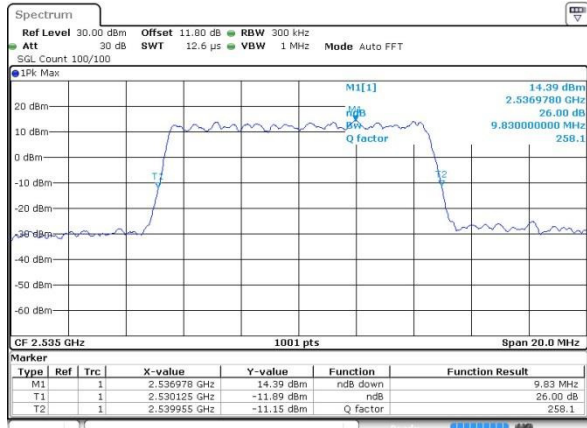
LTE Band 7

Lowest Channel / 10MHz / 64QAM



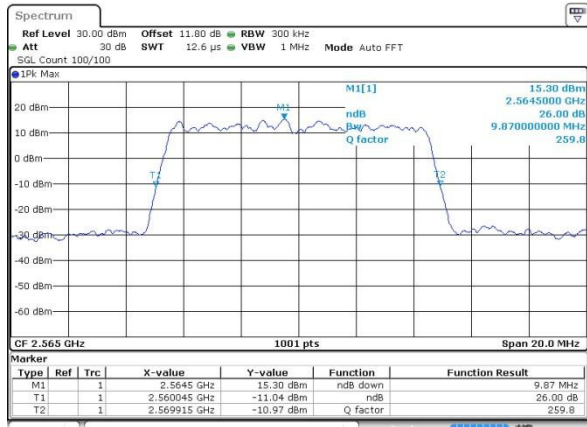
Date: 28 APR 2017 10:27:16

Middle Channel / 10MHz / 64QAM



Date: 28 APR 2017 10:30:50

Highest Channel / 10MHz / 64QAM

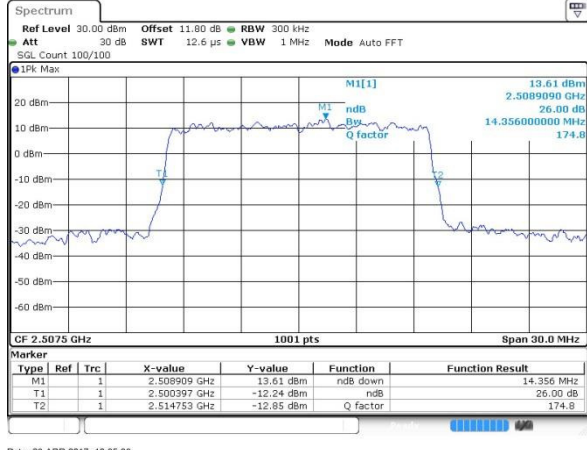


Date: 28 APR 2017 10:32:04



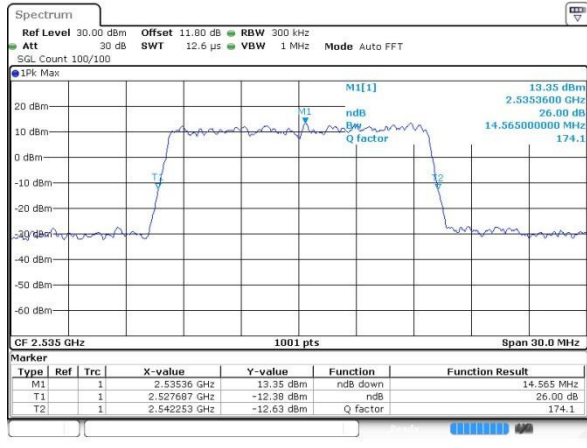
LTE Band 7

Lowest Channel / 15MHz / 64QAM



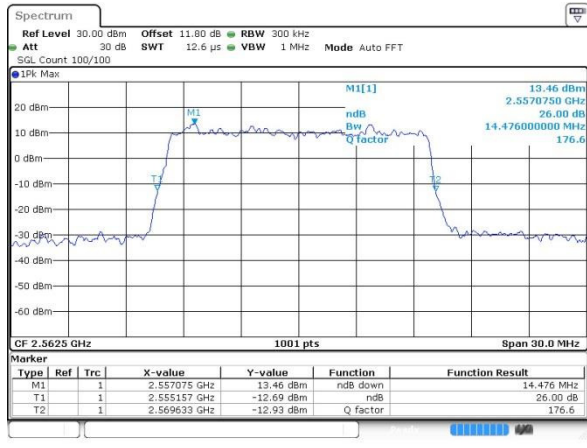
Date: 28 APR 2017 10:35:38

Middle Channel / 15MHz / 64QAM



Date: 28 APR 2017 10:39:13

Highest Channel / 15MHz / 64QAM

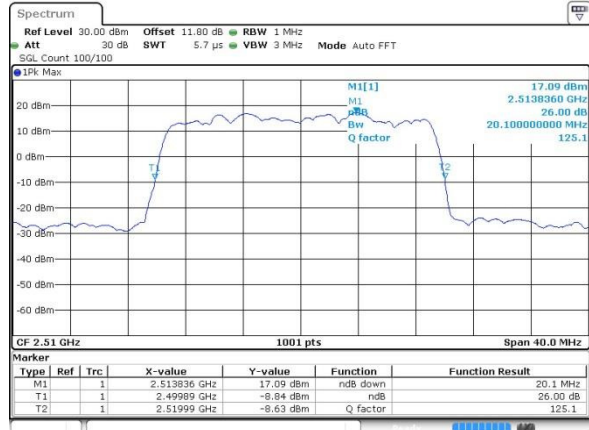


Date: 28 APR 2017 10:40:28



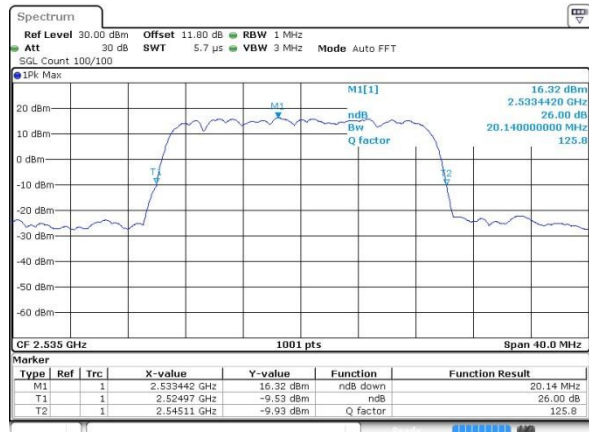
LTE Band 7

Lowest Channel / 20MHz / 64QAM



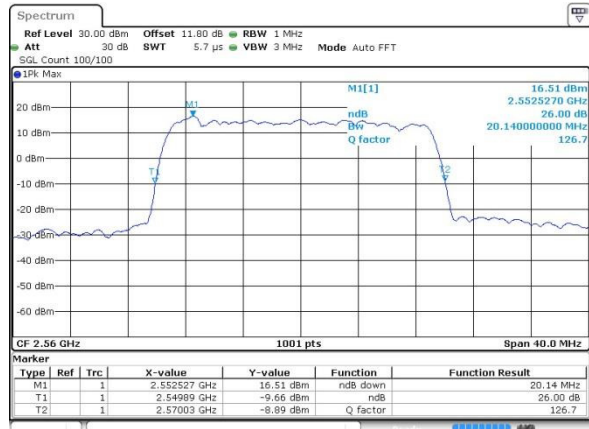
Date: 28 APR 2017 10:44:01

Middle Channel / 20MHz / 64QAM



Date: 28 APR 2017 10:47:35

Highest Channel / 20MHz / 64QAM



Date: 28 APR 2017 10:48:50



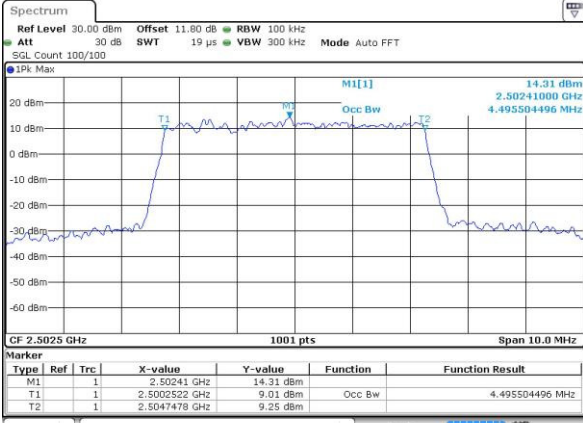
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.5	4.48	9.01	9.03	13.43	13.4	18.26	18.3
Middle CH	-	-	-	-	4.48	4.48	9.05	9.03	13.46	13.43	18.34	18.46
Highest CH	-	-	-	-	4.5	4.49	9.01	9.05	13.49	13.43	18.34	18.34
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.52	-	9.01	-	13.37	-	18.38
Middle CH	-	-	-	-	-	4.48	-	9.01	-	13.52	-	18.26
Highest CH	-	-	-	-	-	4.50	-	8.99	-	13.43	-	18.30



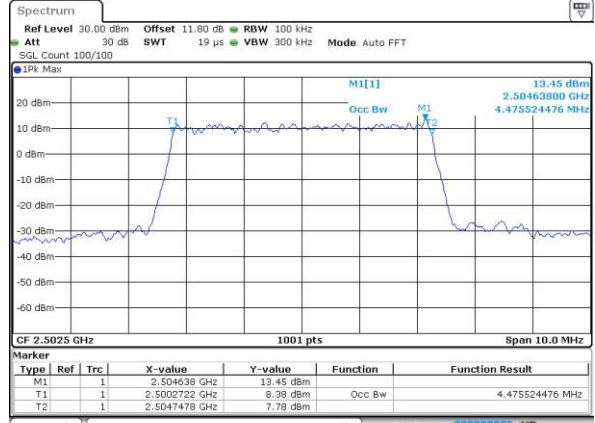
LTE Band 7

Lowest Channel / 5MHz / QPSK



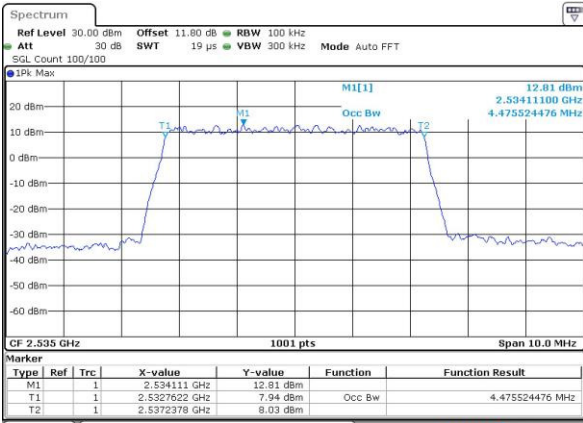
Date: 21 APR 2017 20:45:25

Lowest Channel / 5MHz / 16QAM



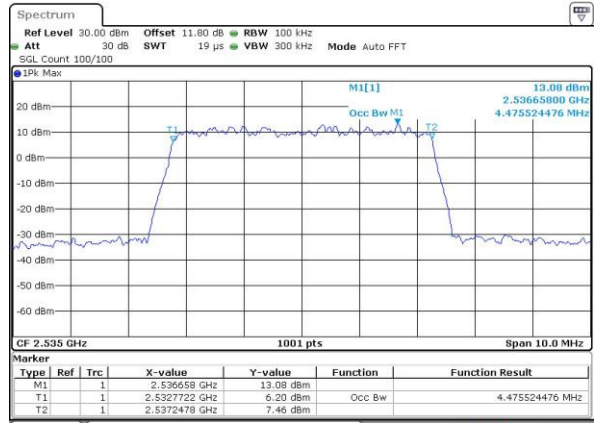
Date: 21 APR 2017 20:45:36

Middle Channel / 5MHz / QPSK



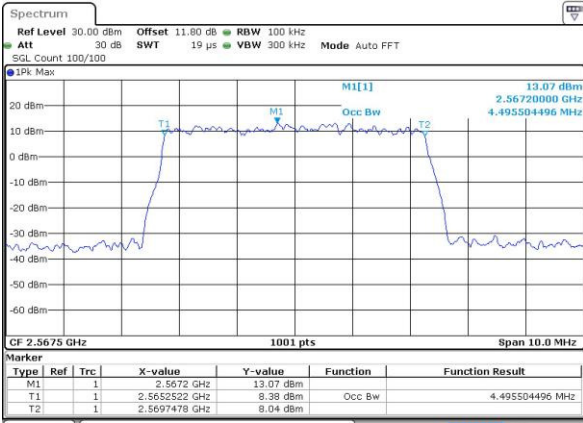
Date: 21 APR 2017 20:52:33

Middle Channel / 5MHz / 16QAM



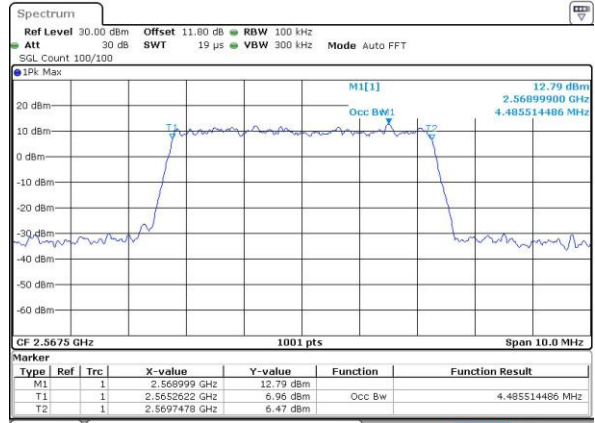
Date: 21 APR 2017 20:52:44

Highest Channel / 5MHz / QPSK



Date: 21 APR 2017 20:55:02

Highest Channel / 5MHz / 16QAM

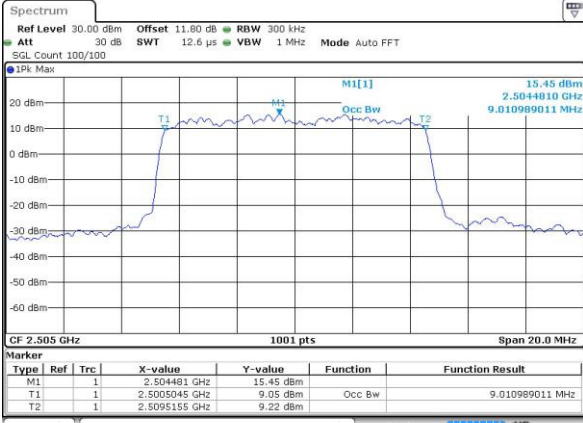


Date: 21 APR 2017 20:55:13



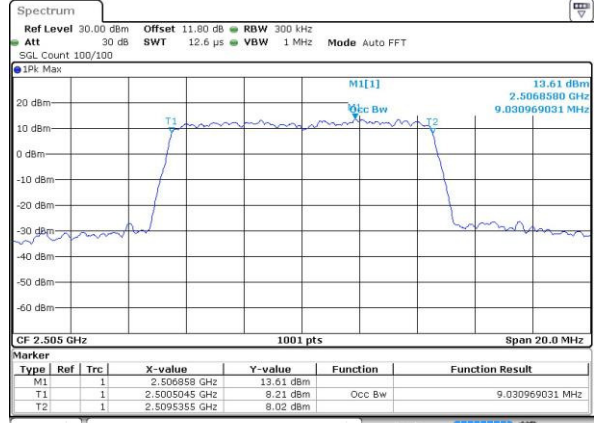
LTE Band 7

Lowest Channel / 10MHz / QPSK



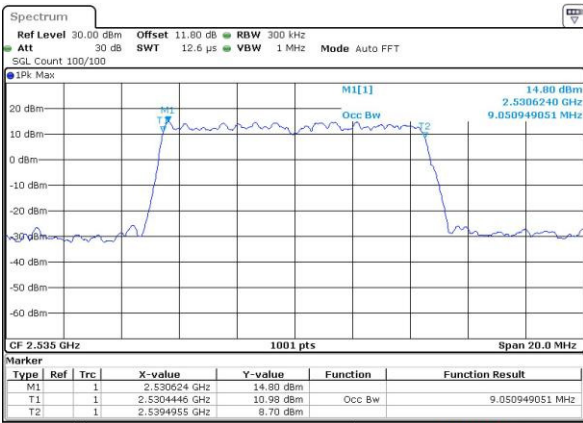
Date: 21 APR 2017 21:02:11

Lowest Channel / 10MHz / 16QAM



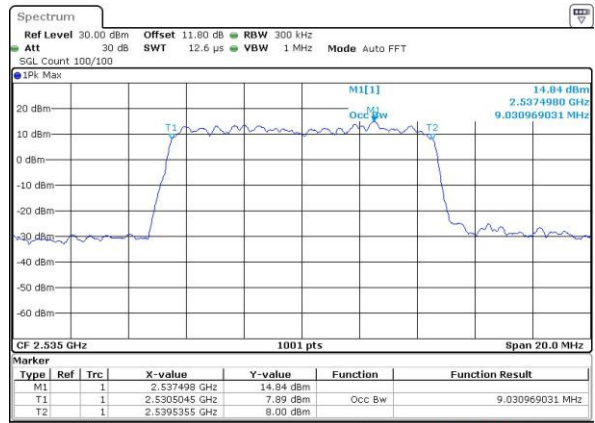
Date: 21 APR 2017 21:02:21

Middle Channel / 10MHz / QPSK



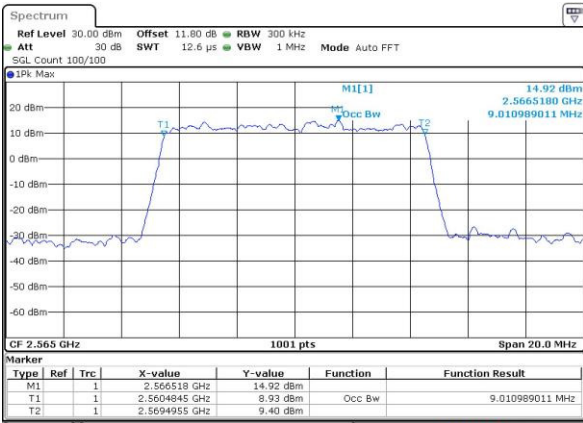
Date: 21 APR 2017 21:09:19

Middle Channel / 10MHz / 16QAM



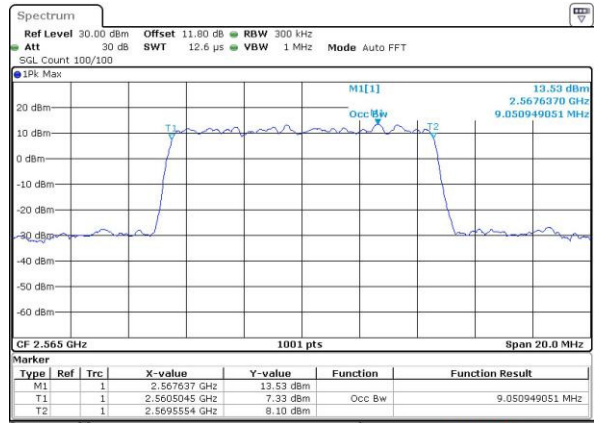
Date: 21 APR 2017 21:09:29

Highest Channel / 10MHz / QPSK



Date: 21 APR 2017 21:11:48

Highest Channel / 10MHz / 16QAM

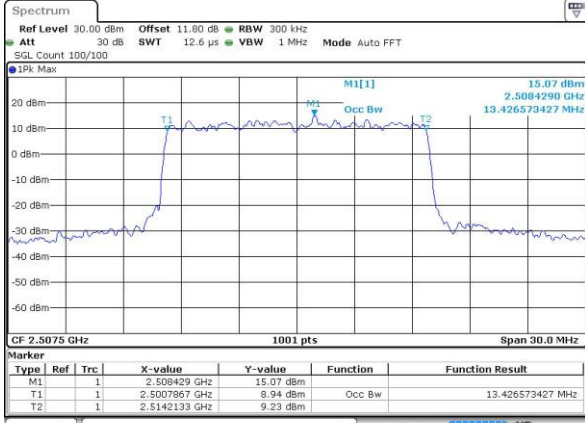


Date: 21 APR 2017 21:13:35



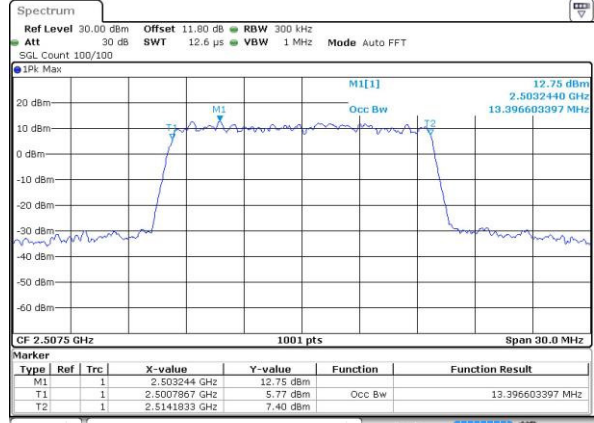
LTE Band 7

Lowest Channel / 15MHz / QPSK



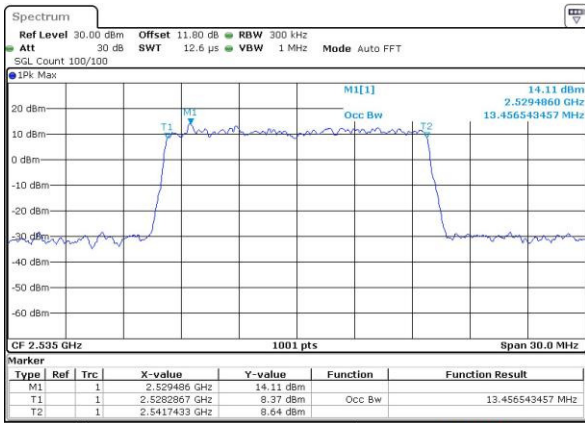
Date: 21 APR 2017 21:20:33

Lowest Channel / 15MHz / 16QAM



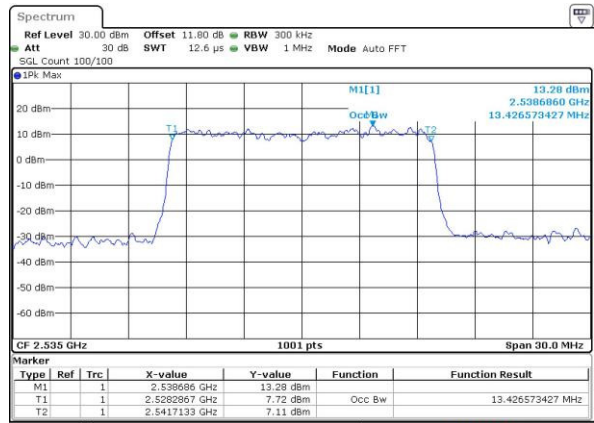
Date: 21 APR 2017 21:20:43

Middle Channel / 15MHz / QPSK



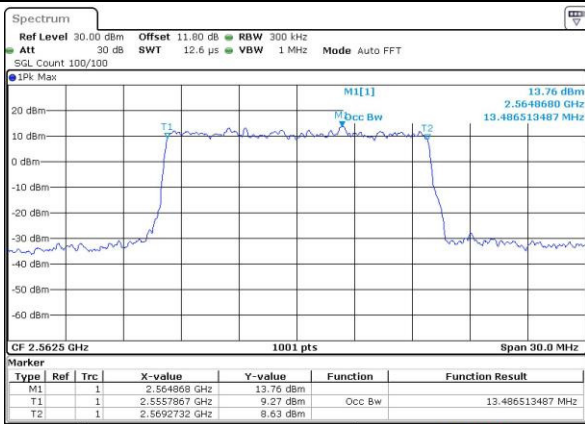
Date: 21 APR 2017 21:27:41

Middle Channel / 15MHz / 16QAM



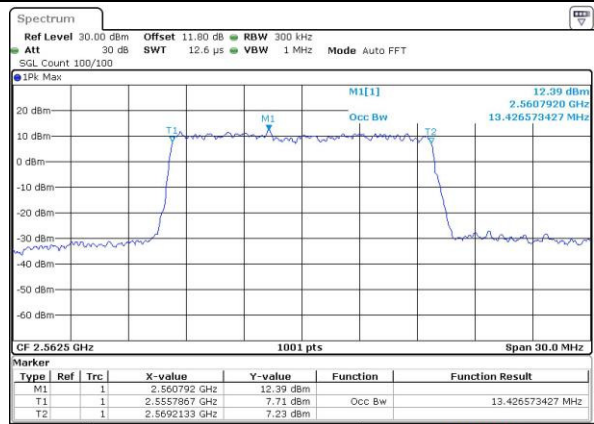
Date: 21 APR 2017 21:27:51

Highest Channel / 15MHz / QPSK



Date: 21 APR 2017 21:30:10

Highest Channel / 15MHz / 16QAM



Date: 21 APR 2017 21:30:20