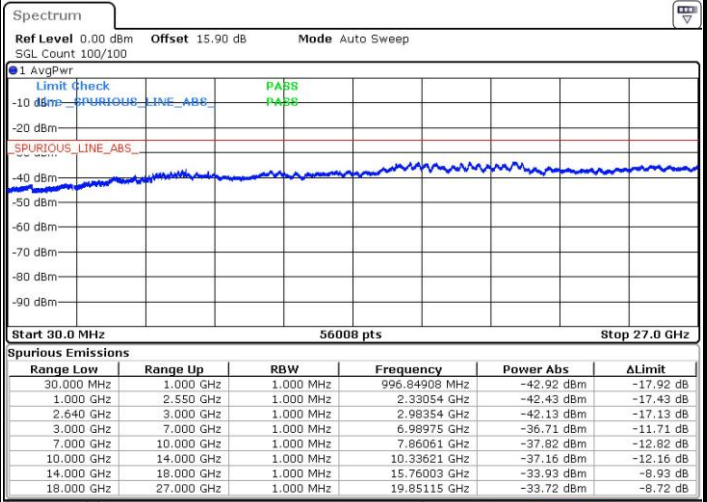
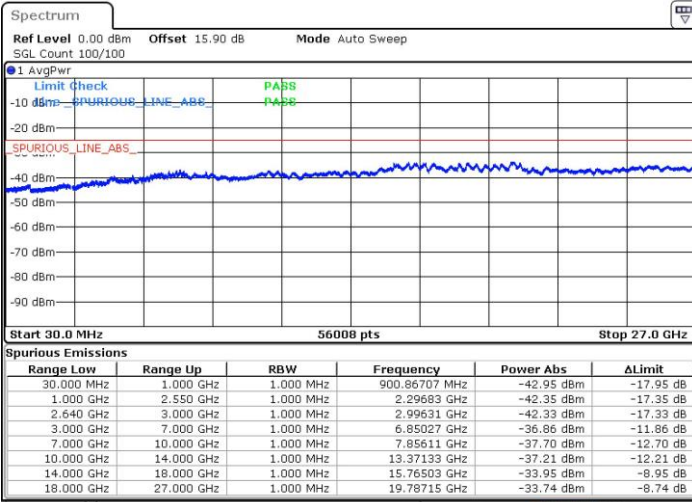




LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

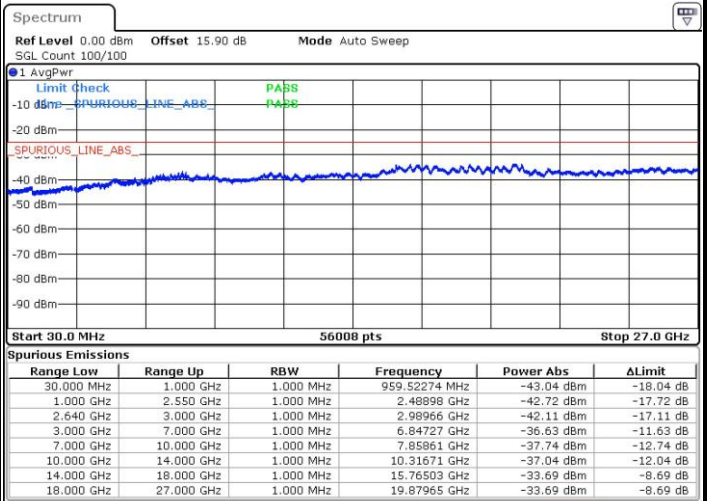
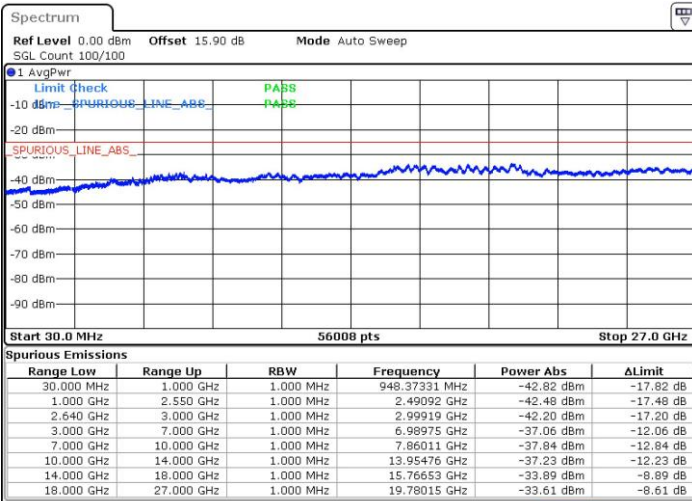


Date: 12 JUN 2017 22:26:15

Date: 12 JUN 2017 22:27:09

Highest Channel / QPSK

Highest Channel / 16QAM



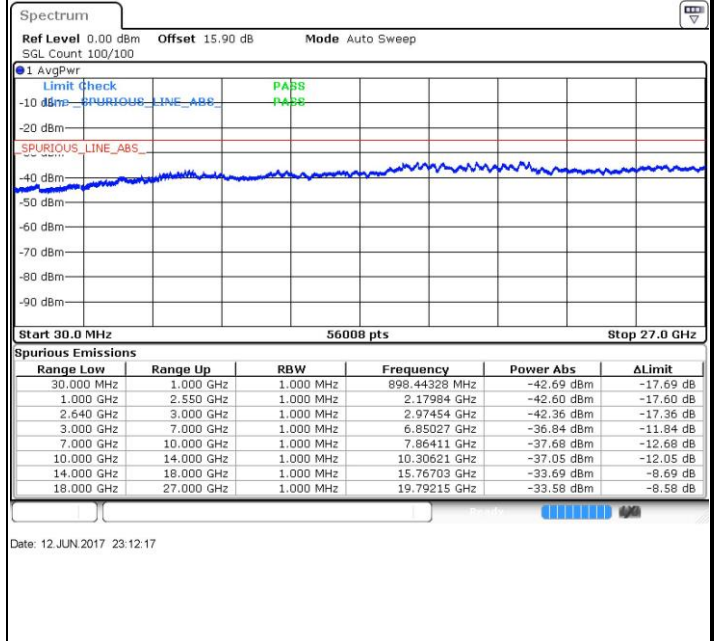
Date: 12 JUN 2017 22:28:04

Date: 12 JUN 2017 22:28:59

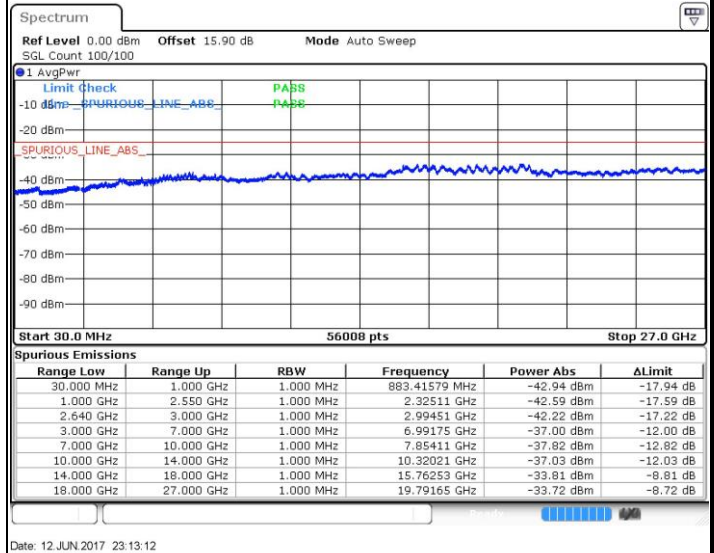


LTE Band 38 / 5MHz

Lowest Channel / 64QAM



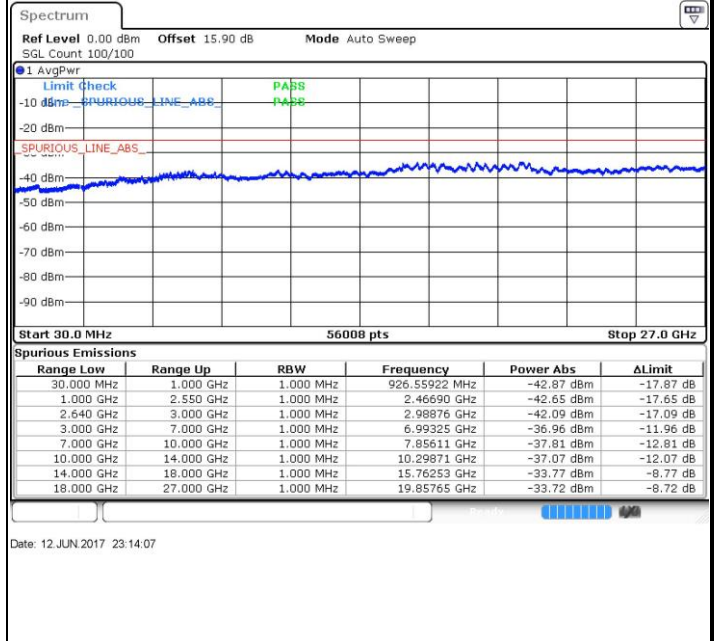
Middle Channel / 64QAM





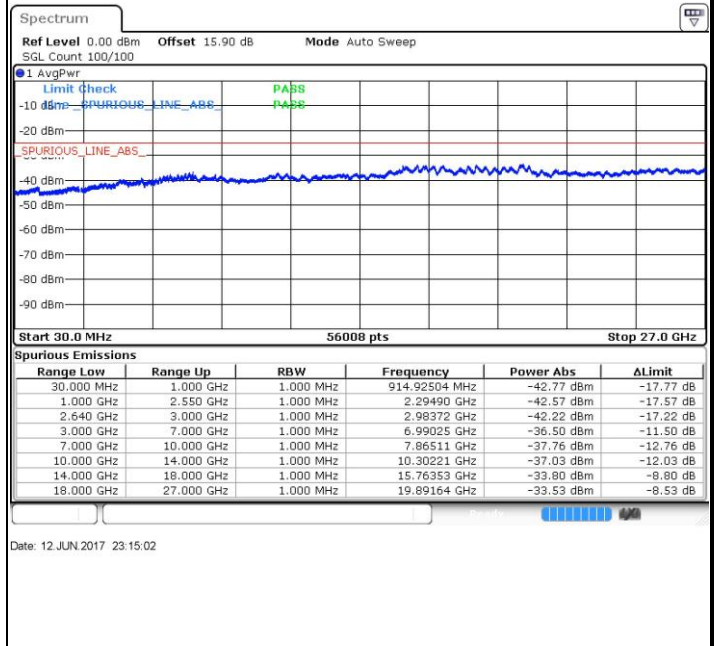
LTE Band 38 / 5MHz

Highest Channel / 64QAM



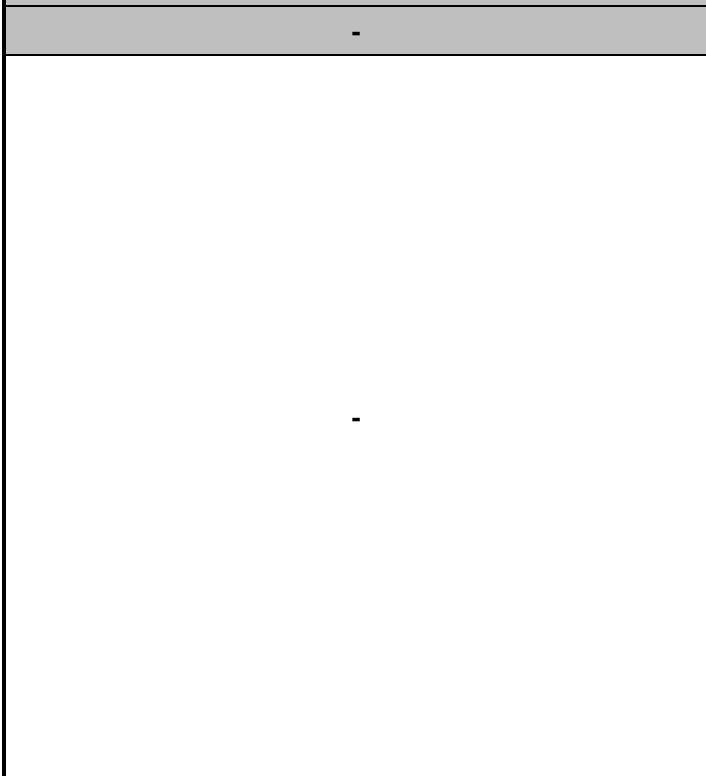
LTE Band 38 / 10MHz

Lowest Channel / 64QAM

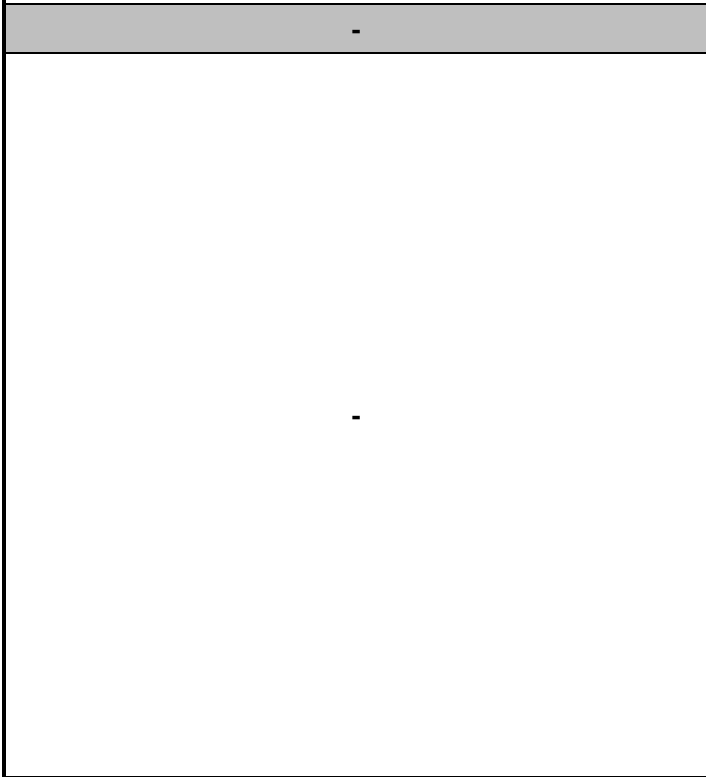
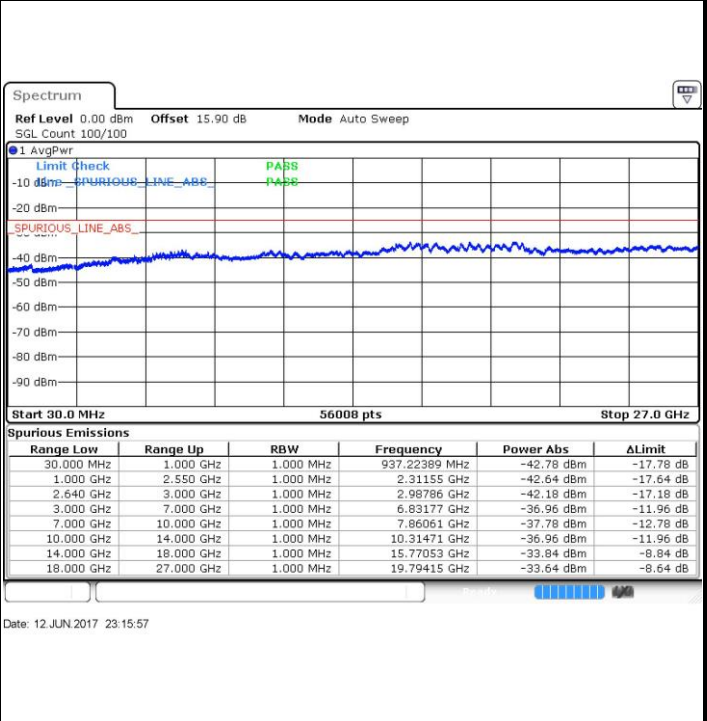




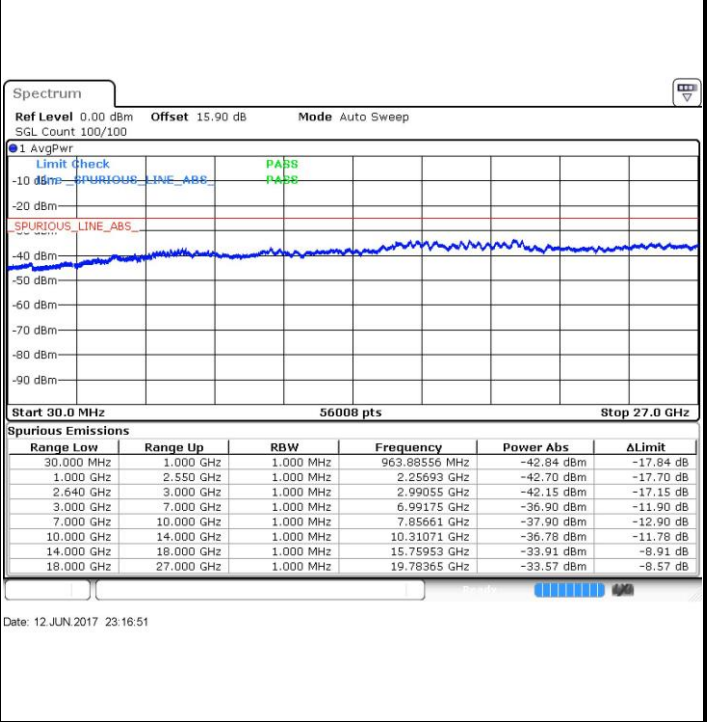
LTE Band 38 / 10MHz



Middle Channel / 64QAM



Highest Channel / 64QAM

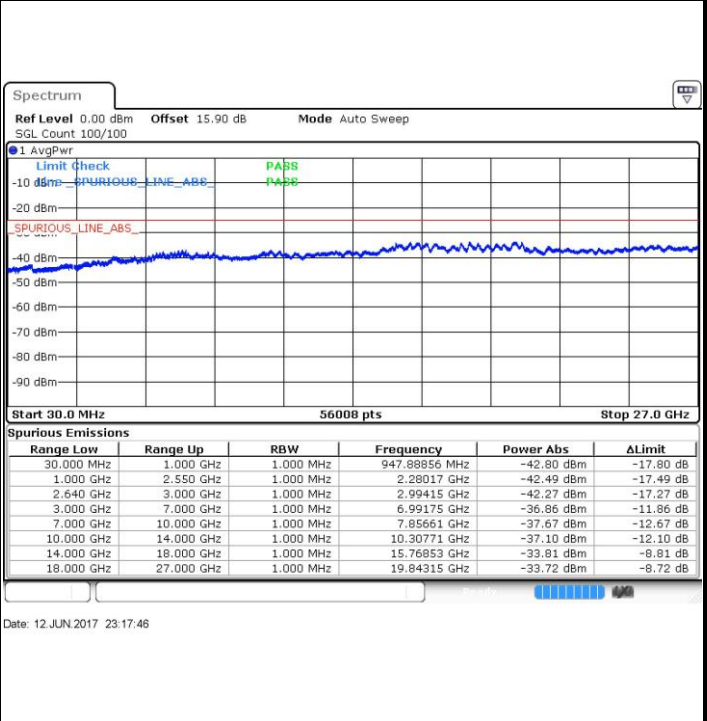




LTE Band 38 / 15MHz

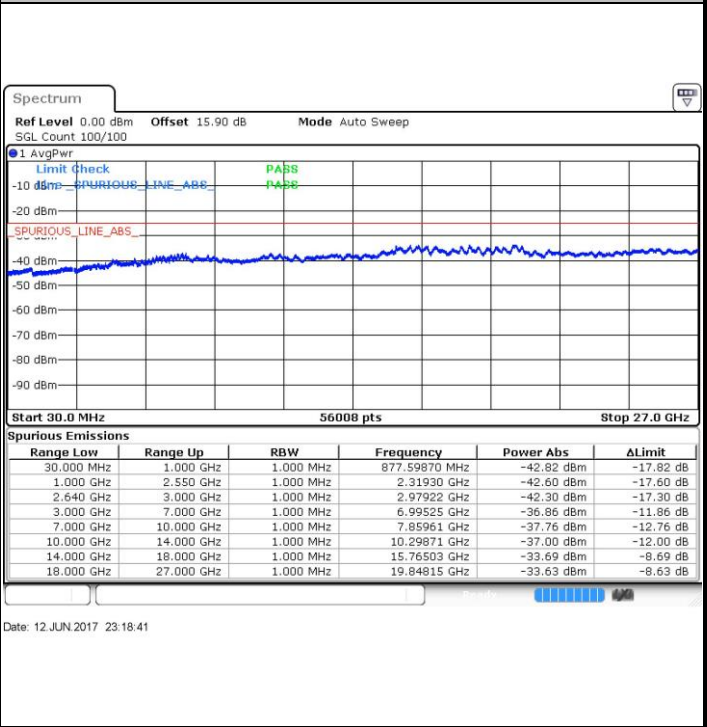
-

Lowest Channel / 64QAM



-

Middle Channel / 64QAM

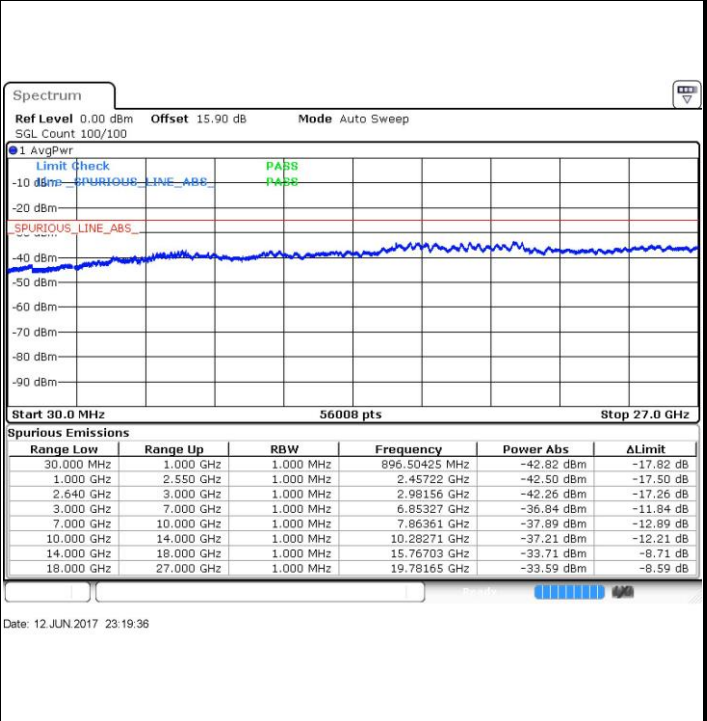




LTE Band 38 / 15MHz

-

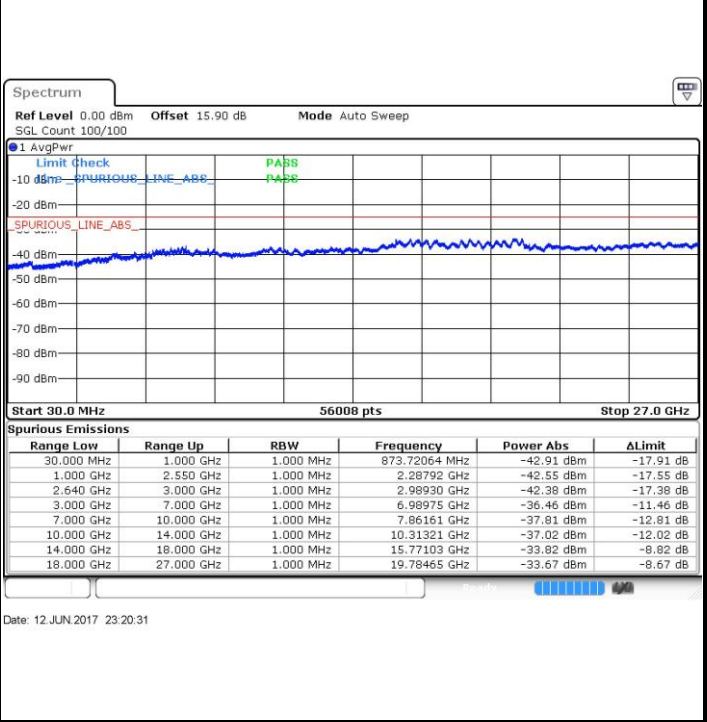
Highest Channel / 64QAM



LTE Band 38 / 20MHz

-

Lowest Channel / 64QAM

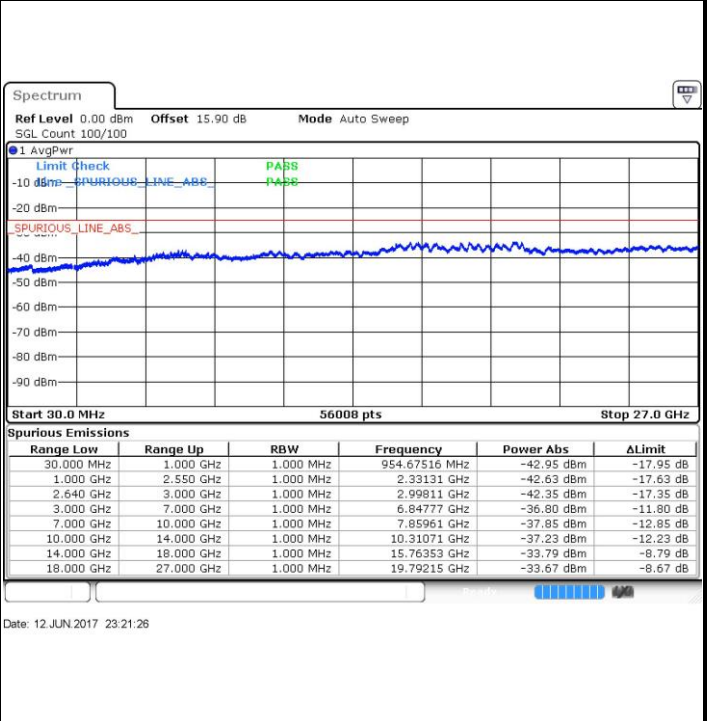




LTE Band 38 / 20MHz

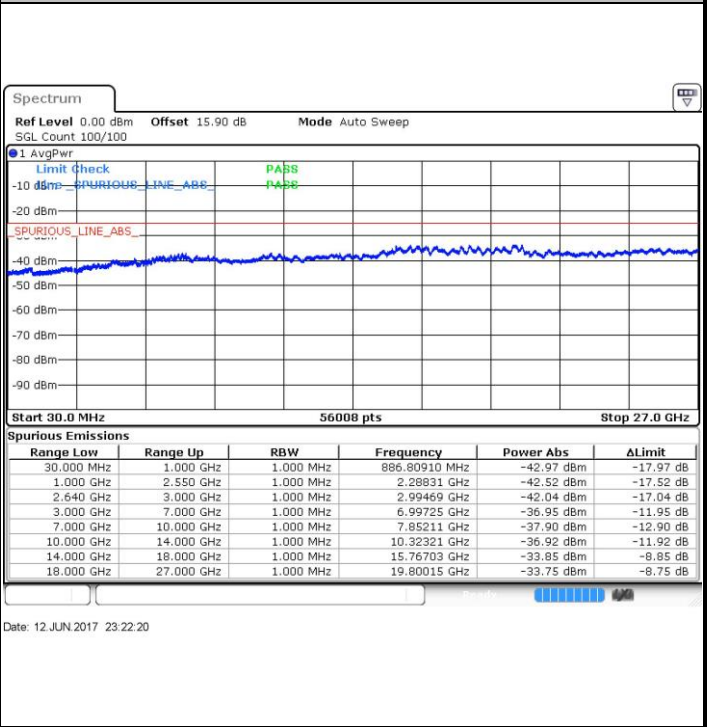
-

Middle Channel / 64QAM



-

Highest Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0088	PASS
40	Normal Voltage	0.0087	
30	Normal Voltage	0.0070	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0084	
0	Normal Voltage	0.0099	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0079	
-30	Normal Voltage	0.0070	
20	Maximum Voltage	0.0071	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0064	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

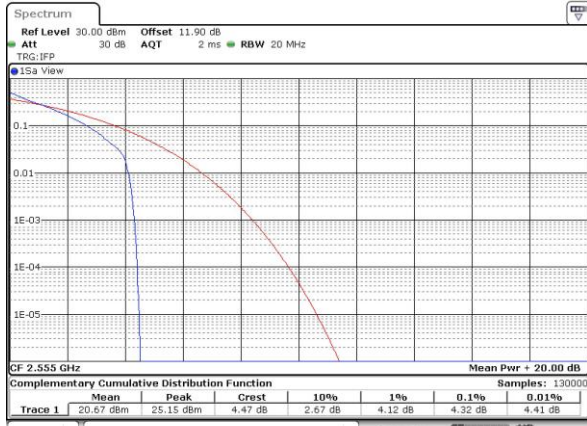
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.32	5.36	5.48	6.26	PASS
Middle CH	4.84	5.54	5.83	6.55	
Highest CH	4.12	4.99	4.96	5.94	
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.33	6.2	PASS
Middle CH	-	-	5.54	6.49	
Highest CH	-	-	4.96	5.88	



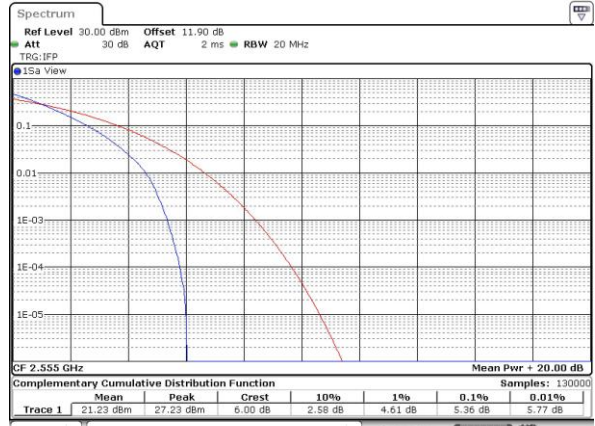
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



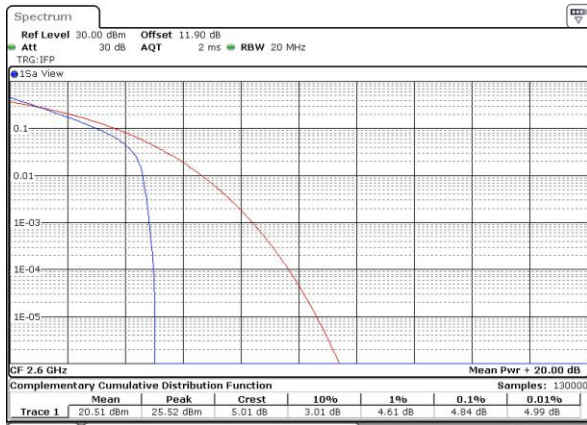
Date: 14 JUN 2017 16:40:40

Lowest Channel / Full RB



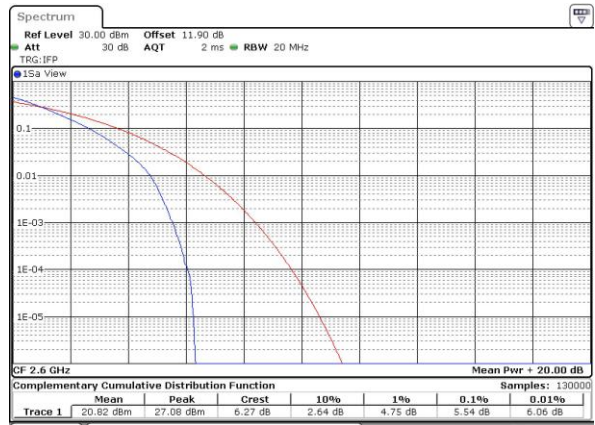
Date: 14 JUN 2017 16:40:54

Middle Channel / 1RB



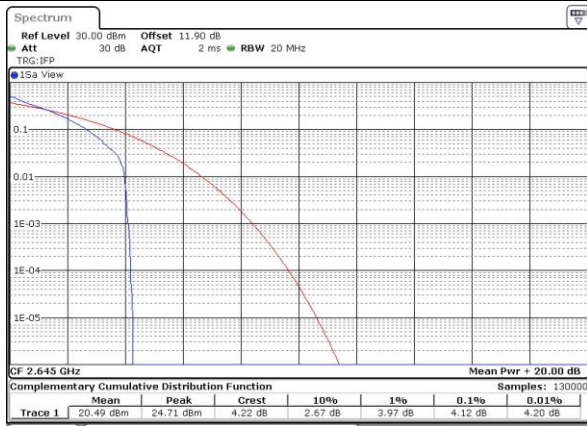
Date: 14 JUN 2017 16:41:10

Middle Channel / Full RB



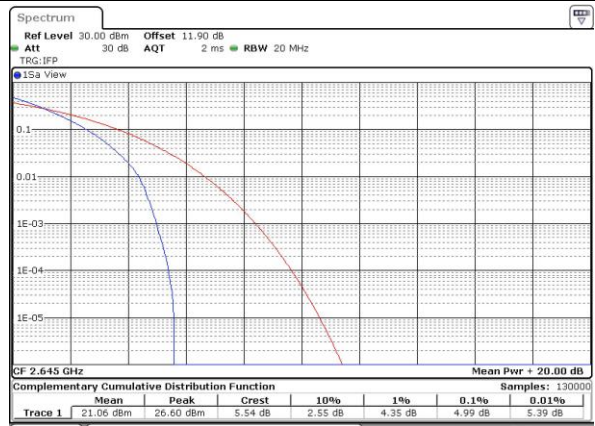
Date: 14 JUN 2017 16:41:25

Highest Channel / 1RB



Date: 14 JUN 2017 16:41:40

Highest Channel / Full RB

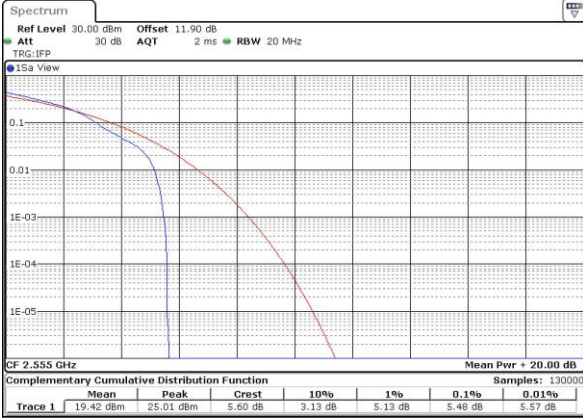


Date: 14 JUN 2017 16:41:54



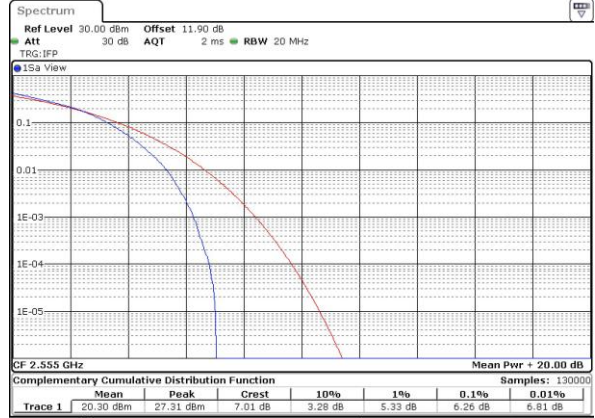
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 14 JUN 2017 16:39:03

Lowest Channel / Full RB



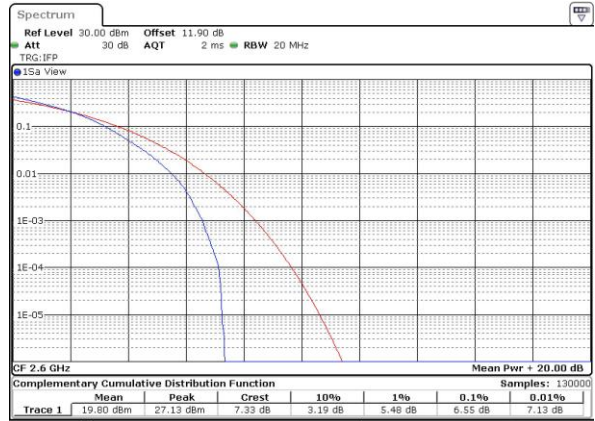
Date: 14 JUN 2017 16:39:19

Middle Channel / 1RB



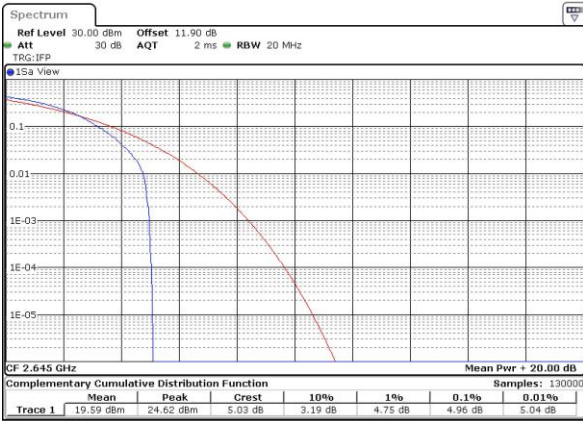
Date: 14 JUN 2017 16:39:36

Middle Channel / Full RB



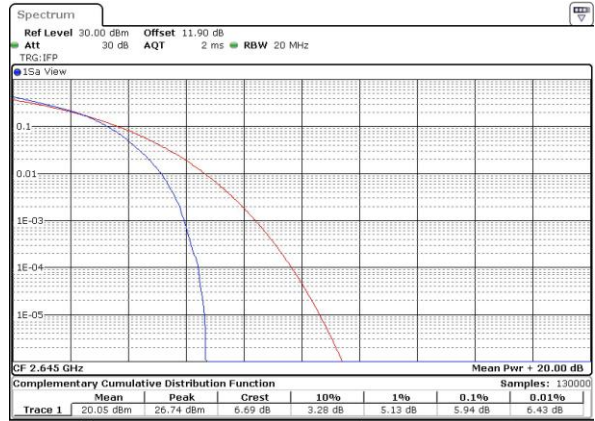
Date: 14 JUN 2017 16:39:52

Highest Channel / 1RB



Date: 14 JUN 2017 16:40:09

Highest Channel / Full RB

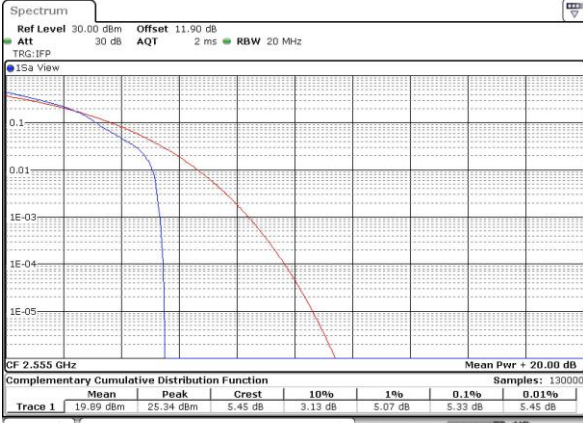


Date: 14 JUN 2017 16:40:24



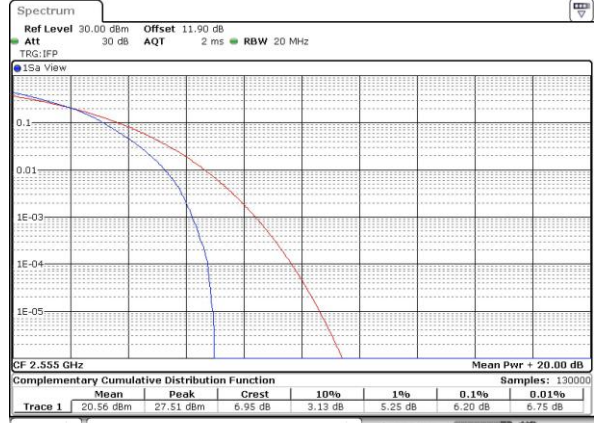
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



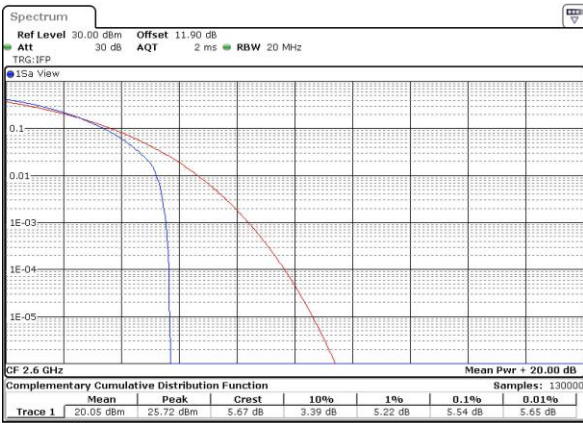
Date: 15 JUN 2017 17:03:59

Lowest Channel / Full RB



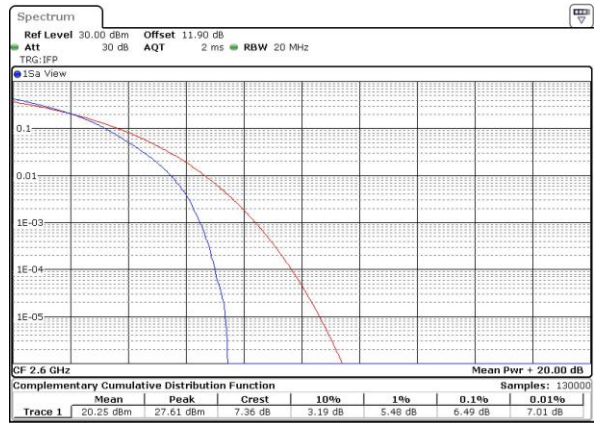
Date: 15 JUN 2017 17:04:14

Middle Channel / 1RB



Date: 15 JUN 2017 17:04:33

Middle Channel / Full RB



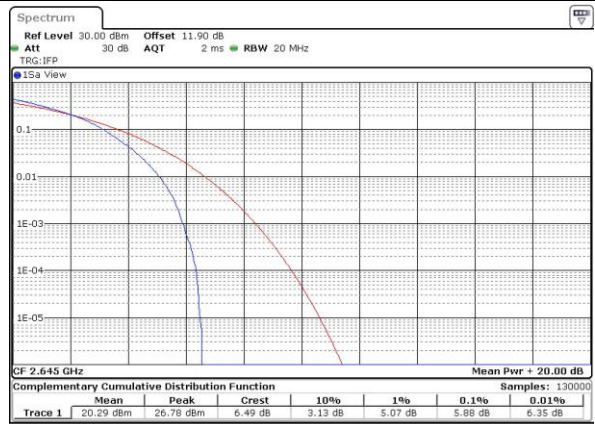
Date: 15 JUN 2017 17:04:49

Highest Channel / 1RB



Date: 15 JUN 2017 17:05:05

Highest Channel / Full RB



Date: 15 JUN 2017 17:05:20



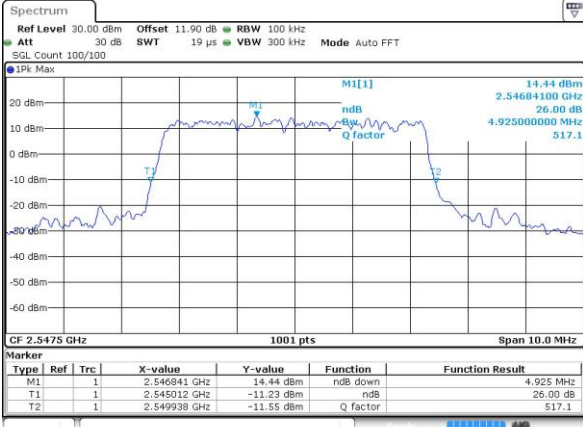
26dB Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.925	4.795	9.77	9.69	14.116	14.296	20.06	20.18
Middle CH	-	-	-	-	4.915	4.805	9.63	9.65	14.176	14.176	20.26	20.14
Highest CH	-	-	-	-	4.875	4.825	9.81	9.63	14.176	14.206	20.06	20.1
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM
Lowest CH	-	-	-	-	-	4.825	-	9.79	-	14.116	-	20.22
Middle CH	-	-	-	-	-	4.915	-	9.67	-	14.296	-	20.26
Highest CH	-	-	-	-	-	4.865	-	9.69	-	14.146	-	20.14



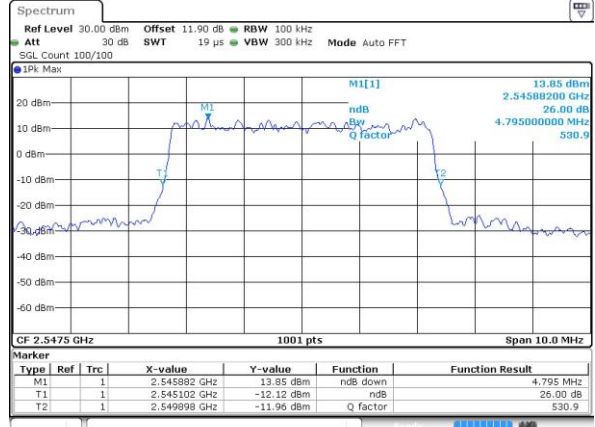
LTE Band 41

Lowest Channel / 5MHz / QPSK



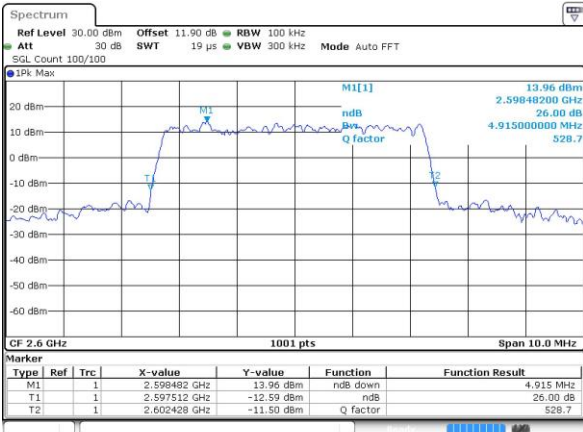
Date: 14 JUN 2017 16:18:39

Lowest Channel / 5MHz / 16QAM



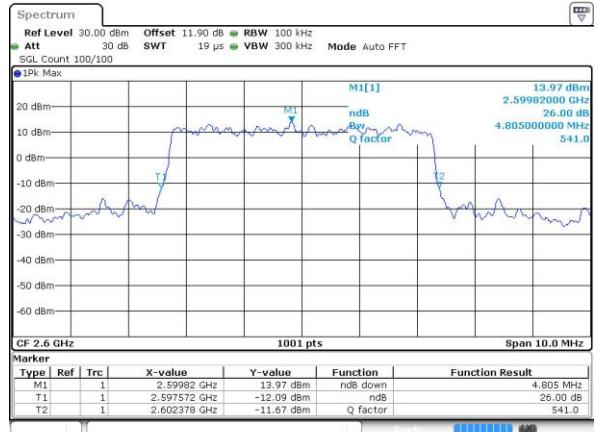
Date: 14 JUN 2017 16:18:49

Middle Channel / 5MHz / QPSK



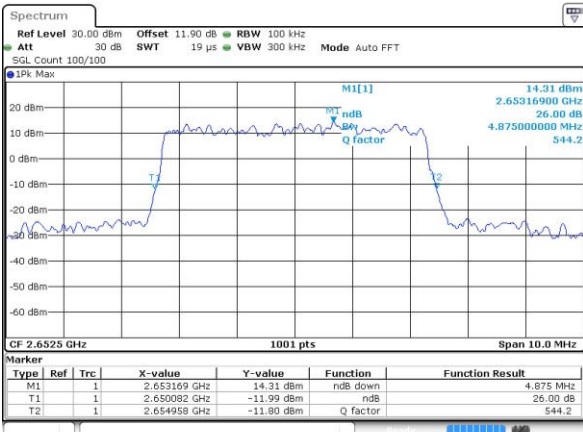
Date: 14 JUN 2017 16:19:21

Middle Channel / 5MHz / 16QAM



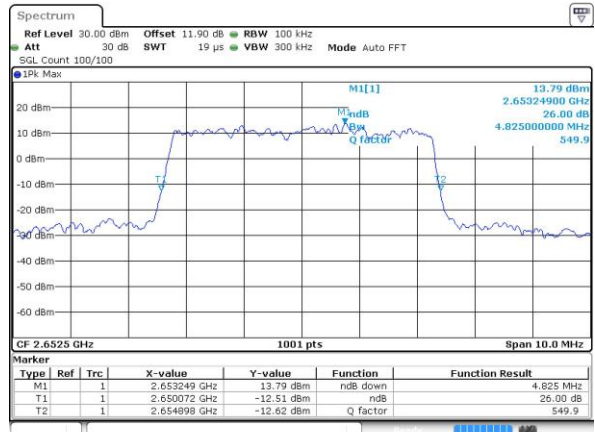
Date: 14 JUN 2017 16:19:31

Highest Channel / 5MHz / QPSK



Date: 14 JUN 2017 16:20:02

Highest Channel / 5MHz / 16QAM

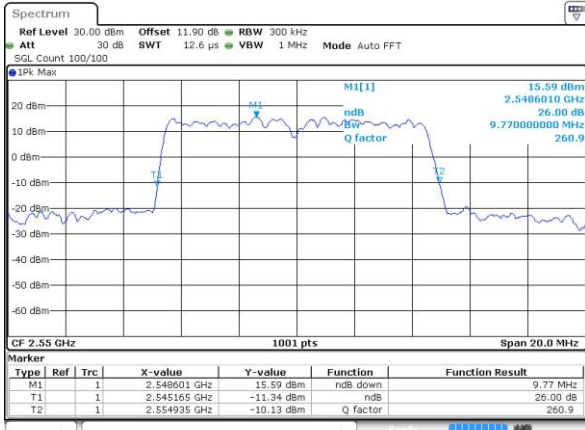


Date: 14 JUN 2017 16:20:13



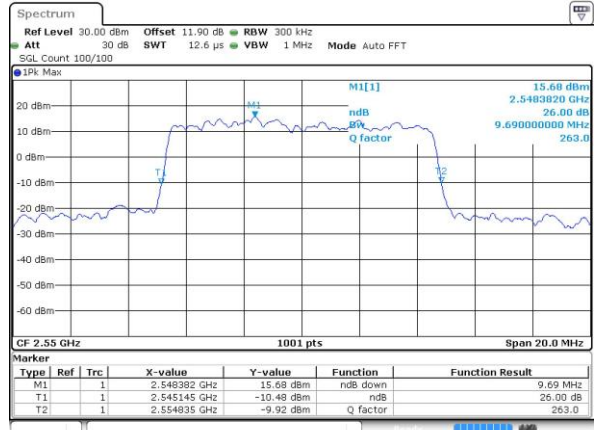
LTE Band 41

Lowest Channel / 10MHz / QPSK



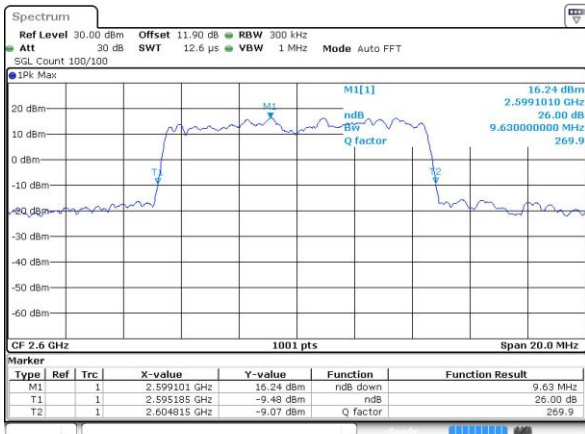
Date: 14 JUN 2017 16:20:44

Lowest Channel / 10MHz / 16QAM



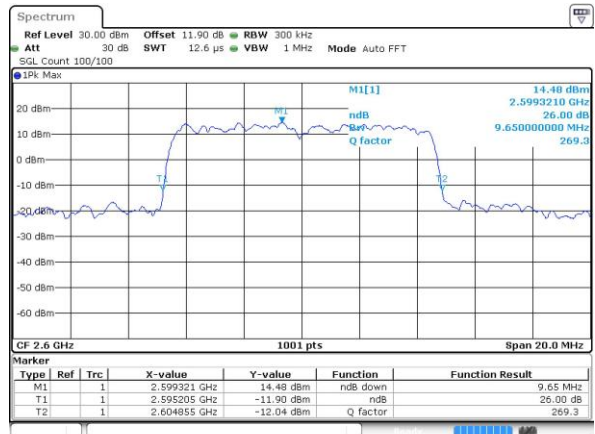
Date: 14 JUN 2017 16:20:54

Middle Channel / 10MHz / QPSK



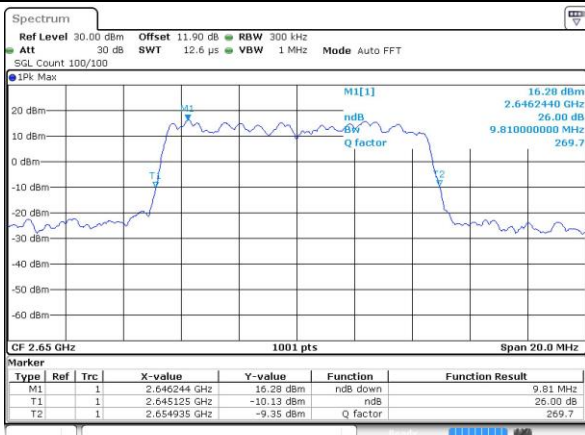
Date: 14 JUN 2017 16:21:26

Middle Channel / 10MHz / 16QAM



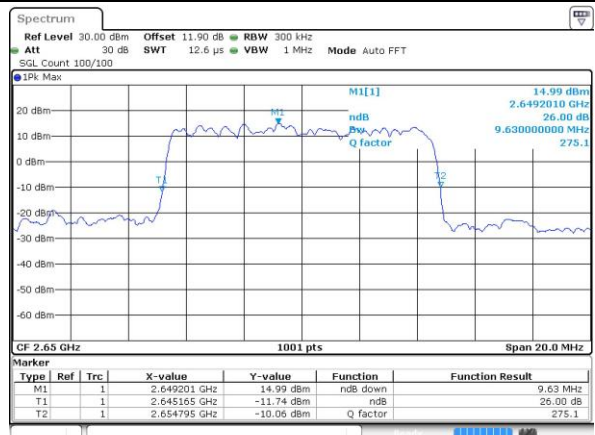
Date: 14 JUN 2017 16:21:36

Highest Channel / 10MHz / QPSK



Date: 14 JUN 2017 16:22:07

Highest Channel / 10MHz / 16QAM

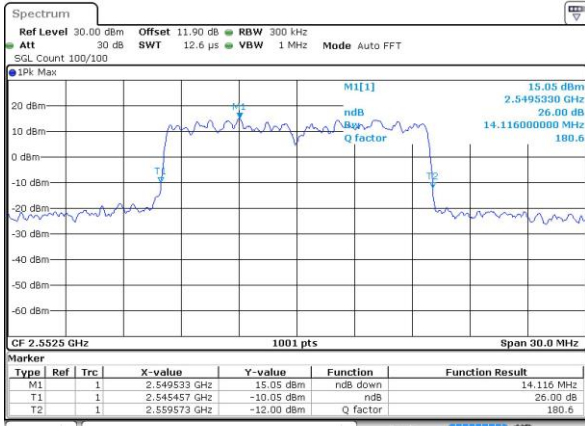


Date: 14 JUN 2017 16:22:17



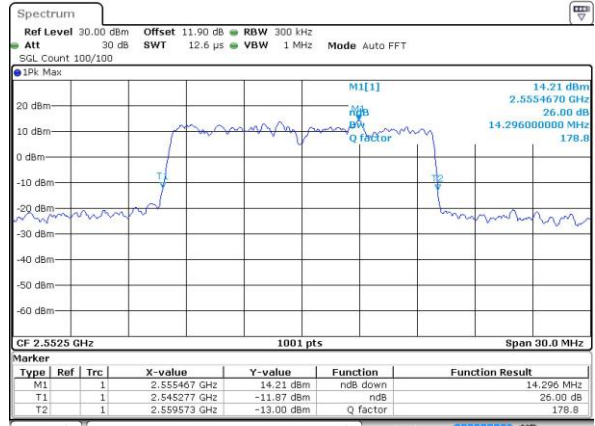
LTE Band 41

Lowest Channel / 15MHz / QPSK



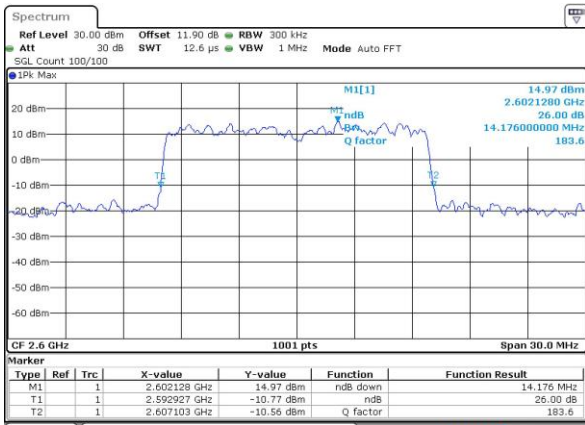
Date: 14 JUN 2017 16:22:48

Lowest Channel / 15MHz / 16QAM



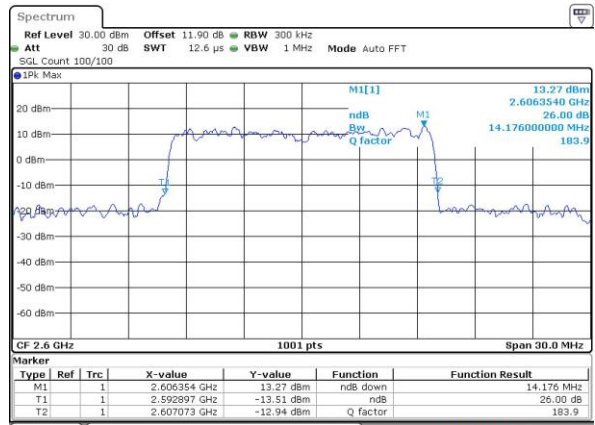
Date: 14 JUN 2017 16:22:59

Middle Channel / 15MHz / QPSK



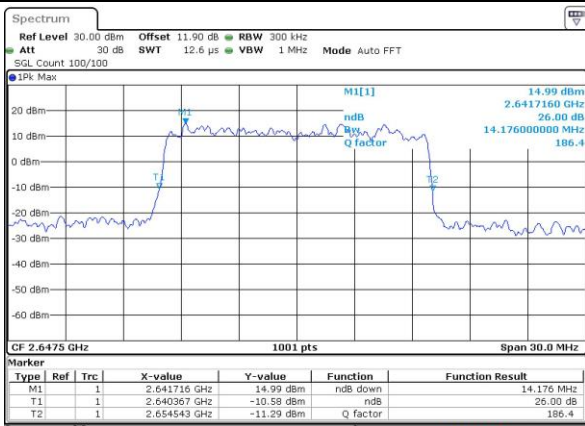
Date: 14 JUN 2017 16:23:30

Middle Channel / 15MHz / 16QAM



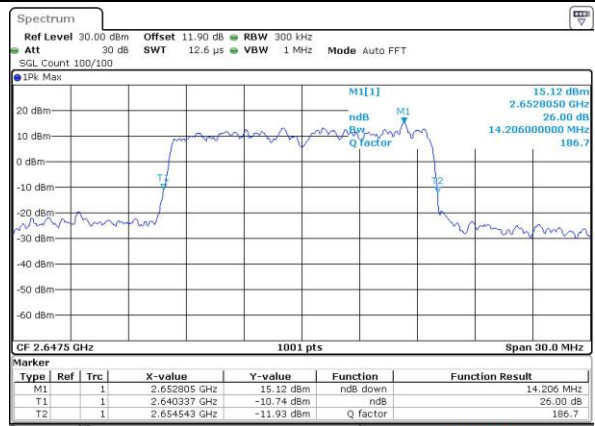
Date: 14 JUN 2017 16:23:40

Highest Channel / 15MHz / QPSK



Date: 14 JUN 2017 16:24:11

Highest Channel / 15MHz / 16QAM

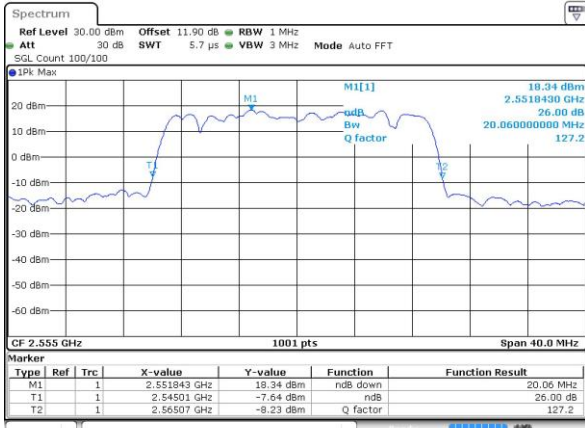


Date: 14 JUN 2017 16:24:22



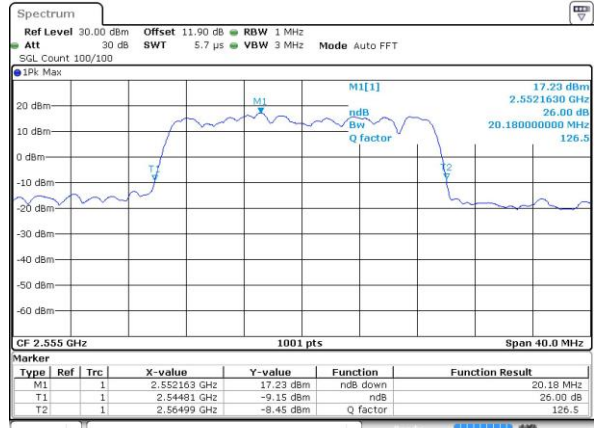
LTE Band 41

Lowest Channel / 20MHz / QPSK



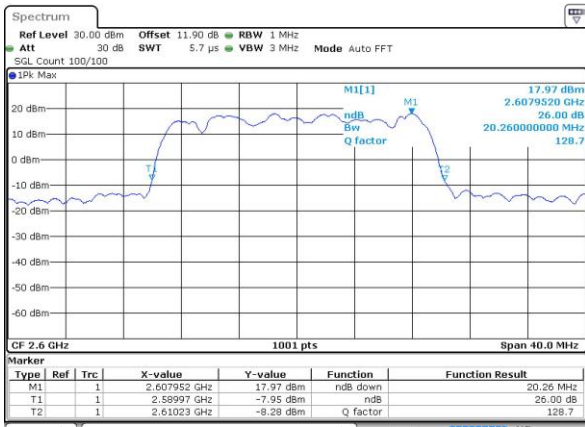
Date: 14 JUN 2017 16:24:53

Lowest Channel / 20MHz / 16QAM



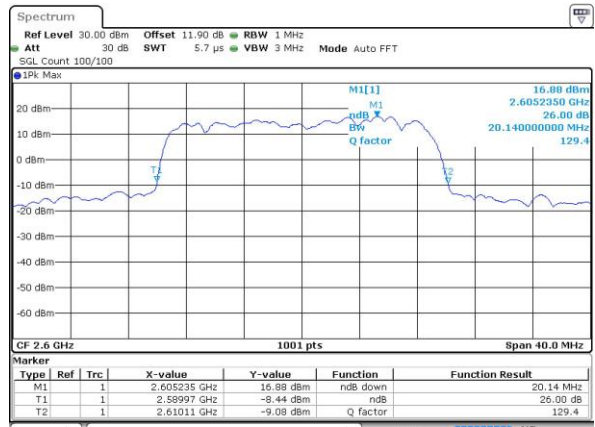
Date: 14 JUN 2017 16:25:03

Middle Channel / 20MHz / QPSK



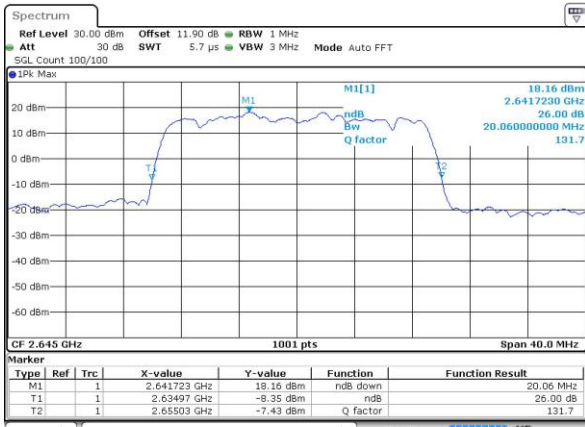
Date: 14 JUN 2017 16:25:34

Middle Channel / 20MHz / 16QAM



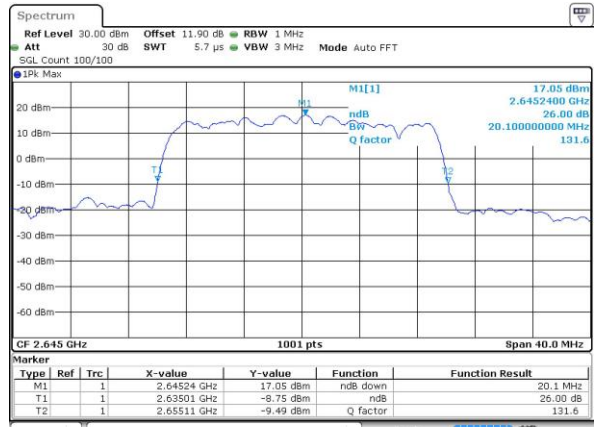
Date: 14 JUN 2017 16:25:45

Highest Channel / 20MHz / QPSK



Date: 14 JUN 2017 16:26:16

Highest Channel / 20MHz / 16QAM

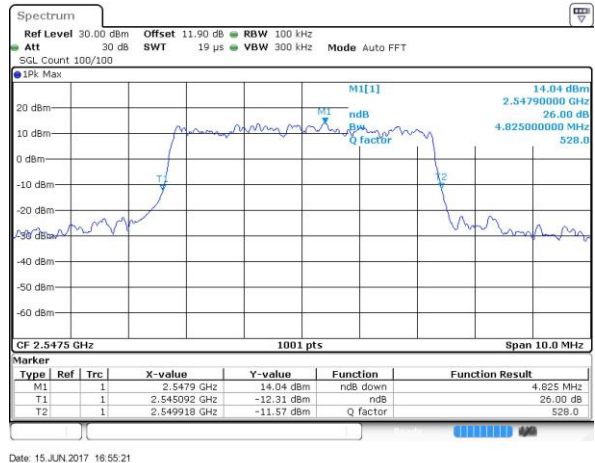


Date: 14 JUN 2017 16:26:26



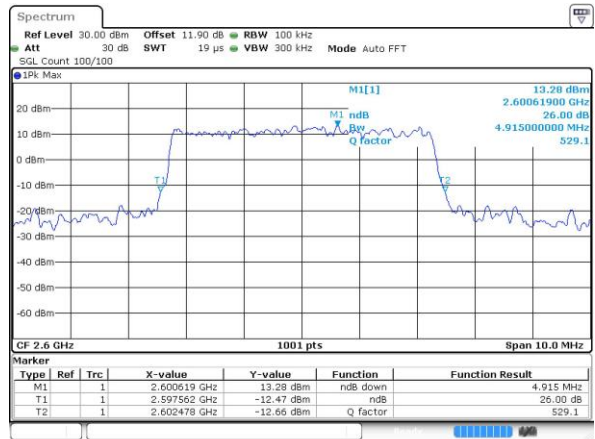
LTE Band 41

Lowest Channel / 5MHz / 64QAM



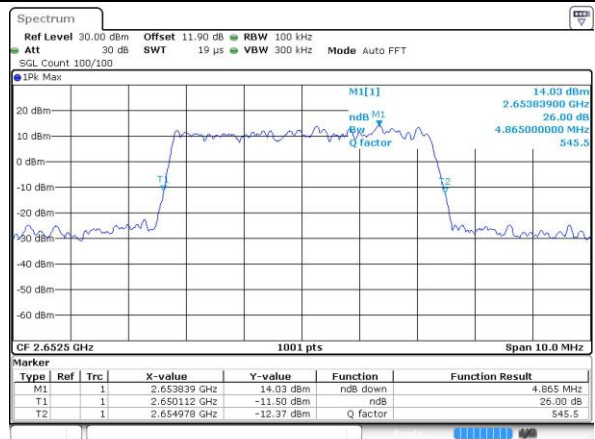
Date: 15 JUN 2017 16:55:21

Middle Channel / 5MHz / 64QAM



Date: 15 JUN 2017 16:55:42

Highest Channel / 5MHz / 64QAM

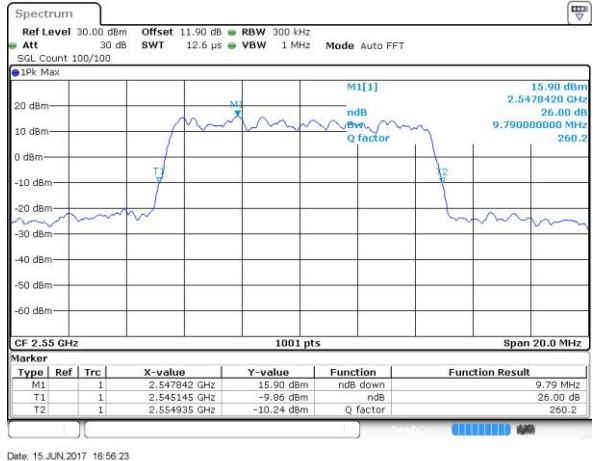


Date: 15 JUN 2017 16:56:02

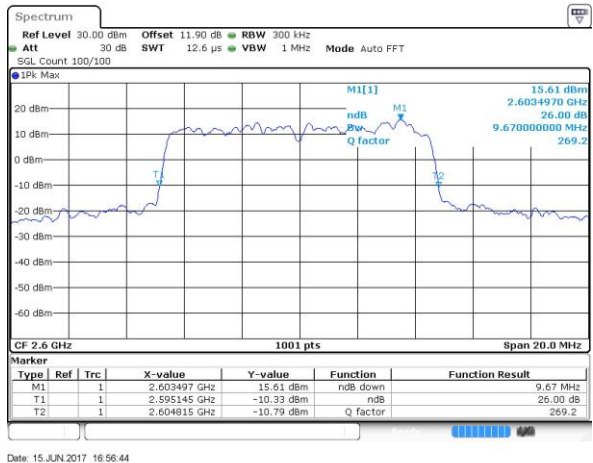


LTE Band 41

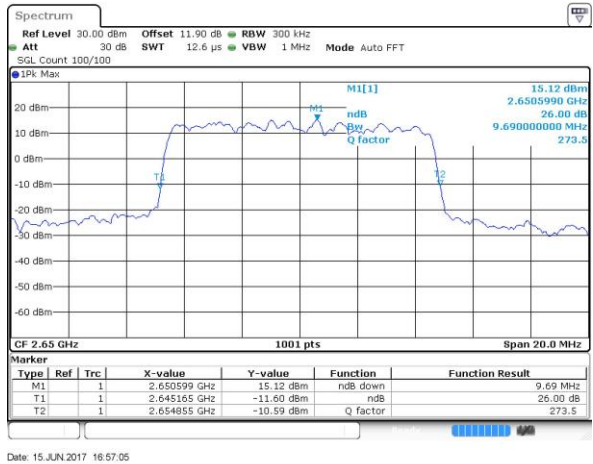
Lowest Channel / 10MHz / 64QAM



Middle Channel / 10MHz / 64QAM



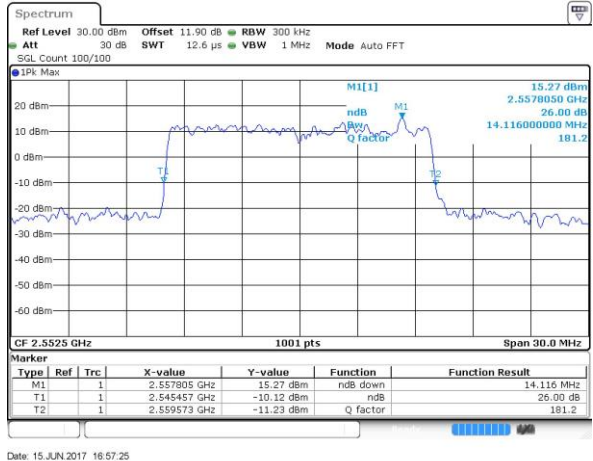
Highest Channel / 10MHz / 64QAM



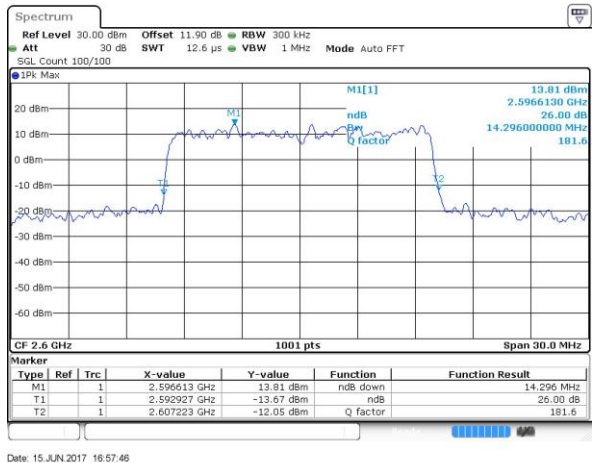


LTE Band 41

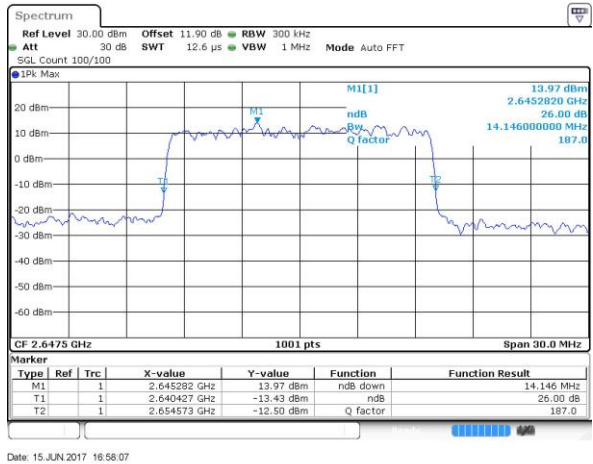
Lowest Channel / 15MHz / 64QAM



Middle Channel / 15MHz / 64QAM



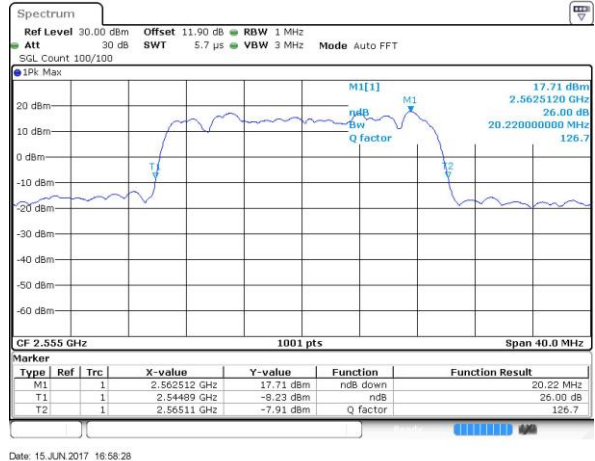
Highest Channel / 15MHz / 64QAM





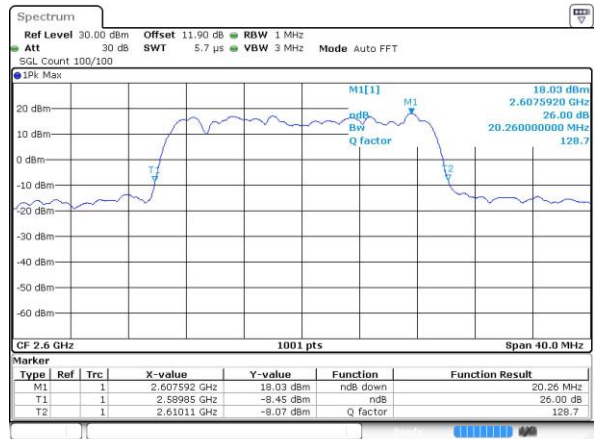
LTE Band 41

Lowest Channel / 20MHz / 64QAM



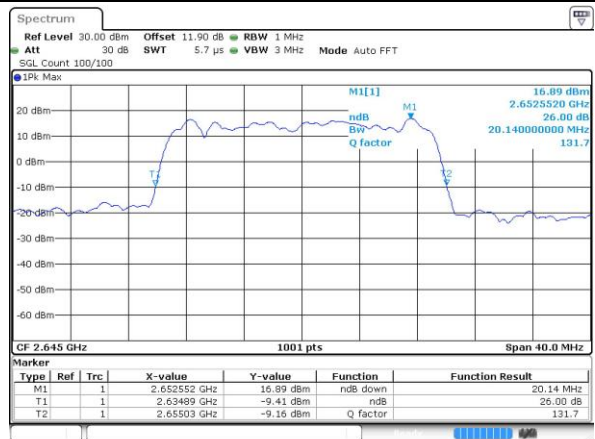
Date: 15 JUN 2017 16:58:28

Middle Channel / 20MHz / 64QAM



Date: 15 JUN 2017 16:58:49

Highest Channel / 20MHz / 64QAM



Date: 15 JUN 2017 16:59:09



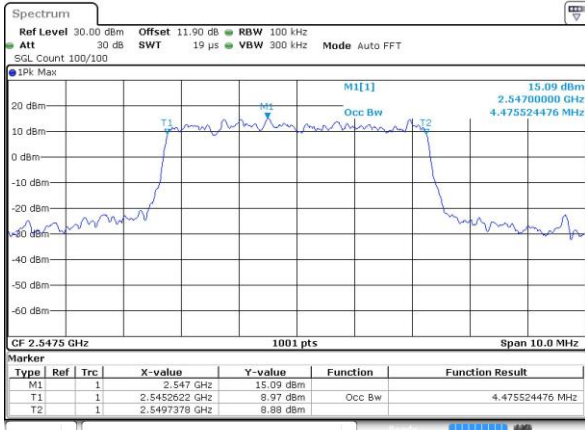
Occupied Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.48	4.51	9.01	9.07	13.46	13.49	18.34	18.54
Middle CH	-	-	-	-	4.49	4.48	9.01	9.01	13.46	13.37	18.42	18.42
Highest CH	-	-	-	-	4.46	4.49	9.05	8.97	13.4	13.4	18.46	18.46
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM
Lowest CH	-	-	-	-	-	4.49	-	9.01	-	13.37	-	18.26
Middle CH	-	-	-	-	-	4.5	-	9.01	-	13.49	-	18.42
Highest CH	-	-	-	-	-	4.49	-	8.99	-	13.4	-	18.38



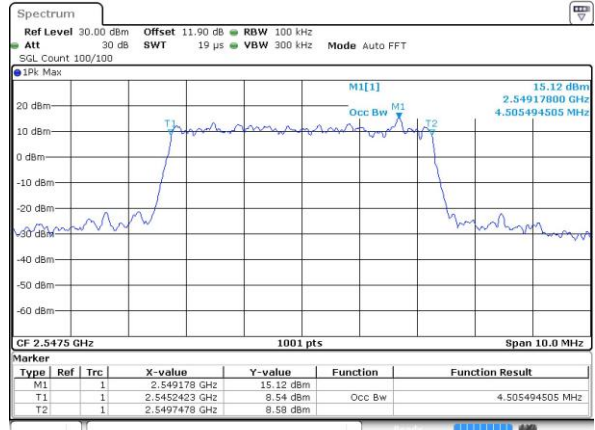
LTE Band 41

Lowest Channel / 5MHz / QPSK



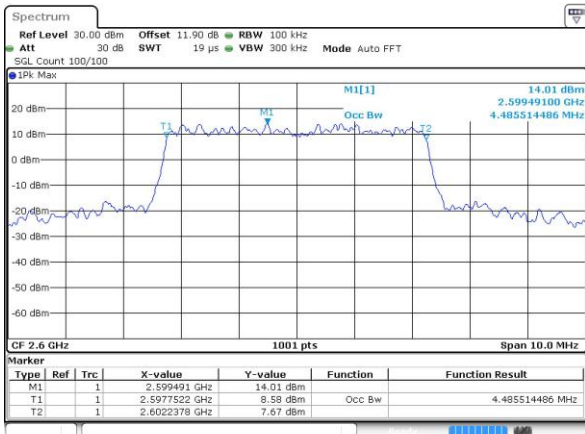
Date: 14 JUN 2017 16:18:18

Lowest Channel / 5MHz / 16QAM



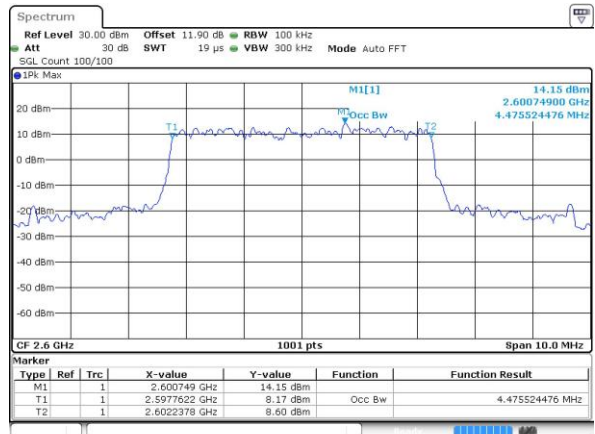
Date: 14 JUN 2017 16:18:29

Middle Channel / 5MHz / QPSK



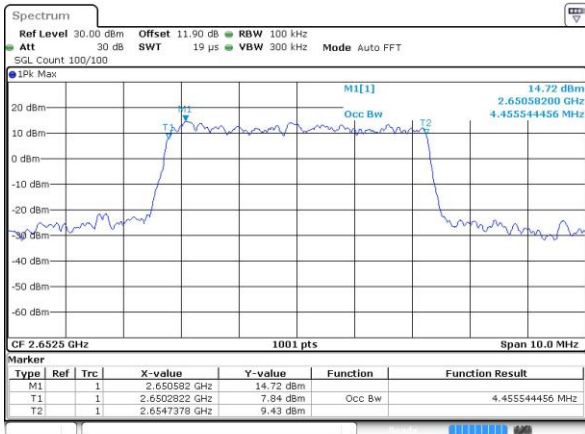
Date: 14 JUN 2017 16:19:00

Middle Channel / 5MHz / 16QAM



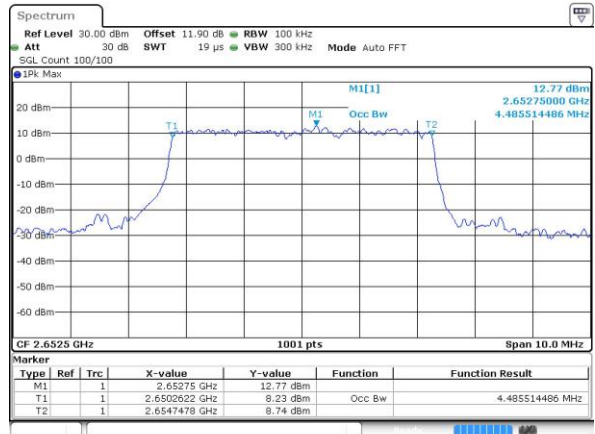
Date: 14 JUN 2017 16:19:10

Highest Channel / 5MHz / QPSK



Date: 14 JUN 2017 16:19:42

Highest Channel / 5MHz / 16QAM

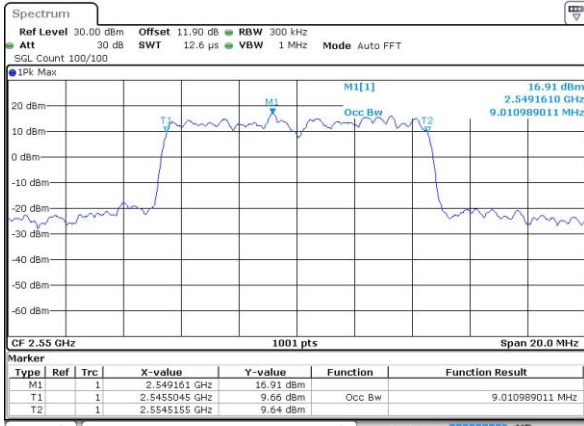


Date: 14 JUN 2017 16:19:52



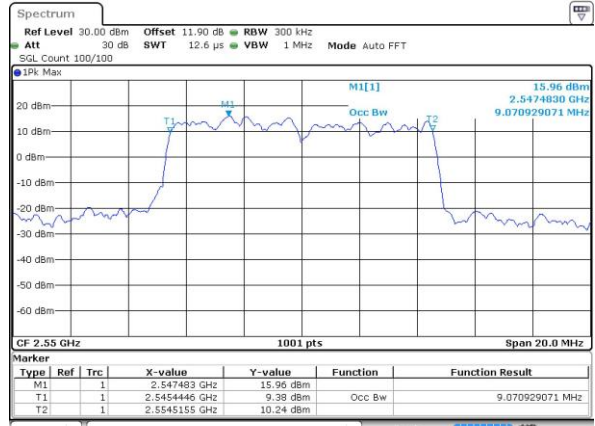
LTE Band 41

Lowest Channel / 10MHz / QPSK



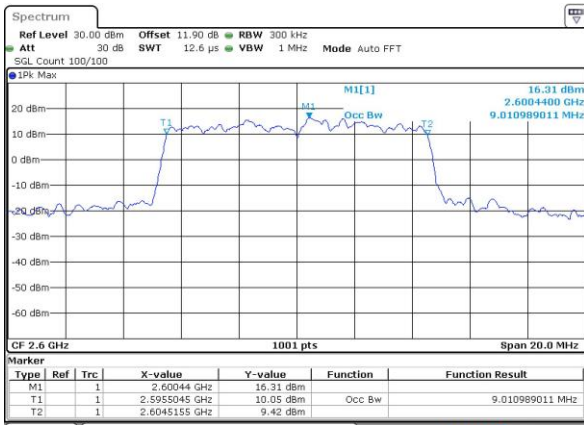
Date: 14 JUN 2017 16:20:23

Lowest Channel / 10MHz / 16QAM



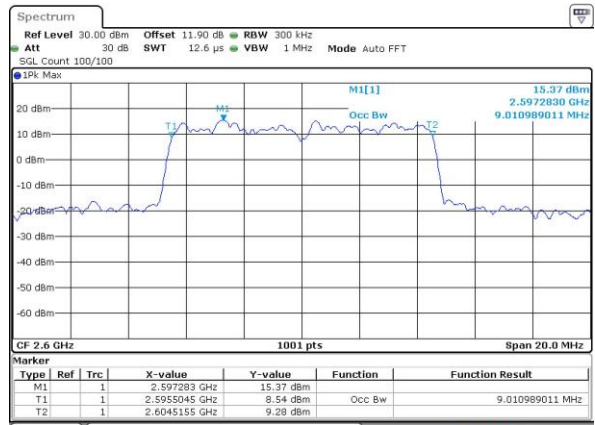
Date: 14 JUN 2017 16:20:34

Middle Channel / 10MHz / QPSK



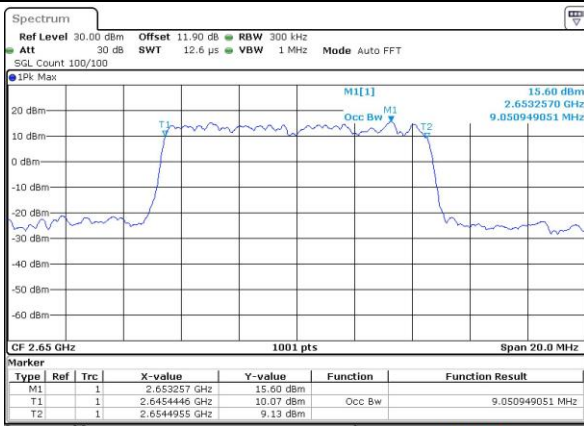
Date: 14 JUN 2017 16:21:05

Middle Channel / 10MHz / 16QAM



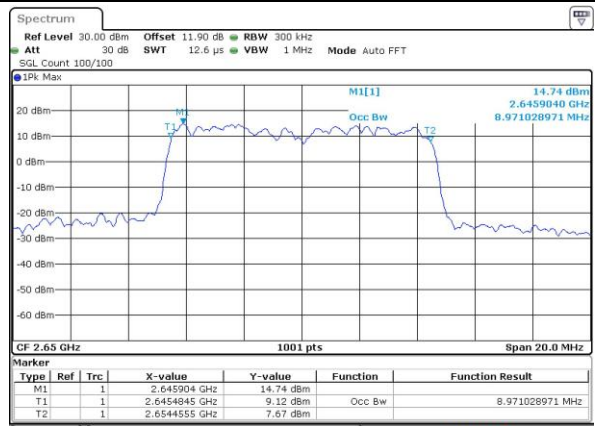
Date: 14 JUN 2017 16:21:15

Highest Channel / 10MHz / QPSK



Date: 14 JUN 2017 16:21:46

Highest Channel / 10MHz / 16QAM

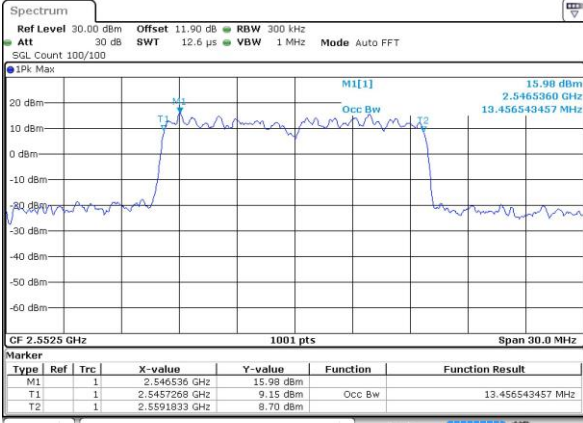


Date: 14 JUN 2017 16:21:57



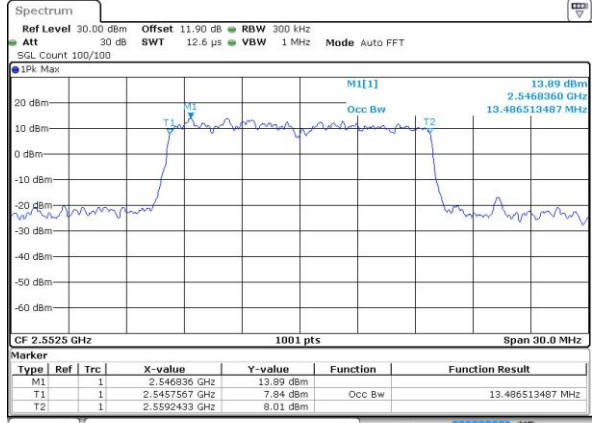
LTE Band 41

Lowest Channel / 15MHz / QPSK



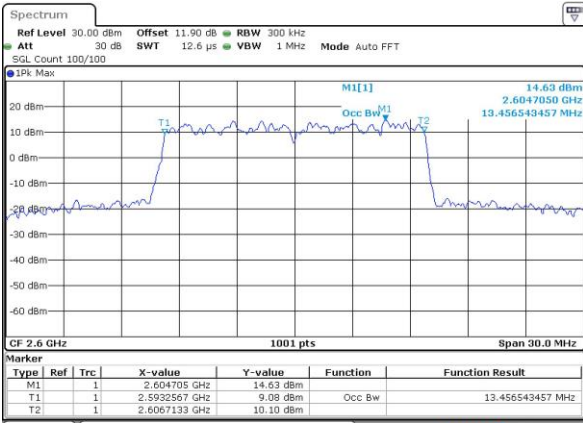
Date: 14 JUN 2017 16:22:28

Lowest Channel / 15MHz / 16QAM



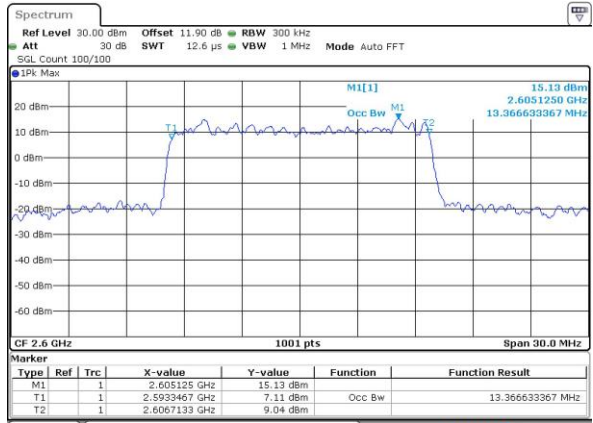
Date: 14 JUN 2017 16:22:38

Middle Channel / 15MHz / QPSK



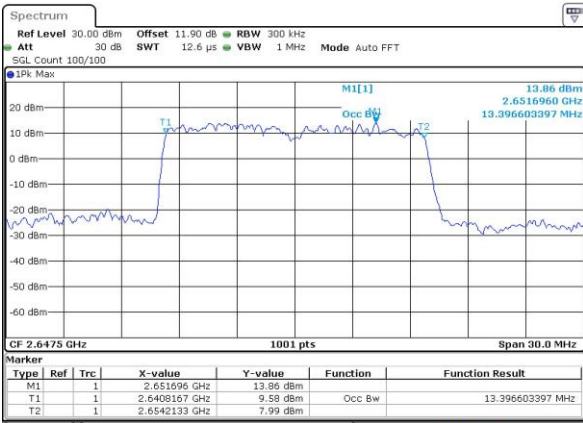
Date: 14 JUN 2017 16:23:09

Middle Channel / 15MHz / 16QAM



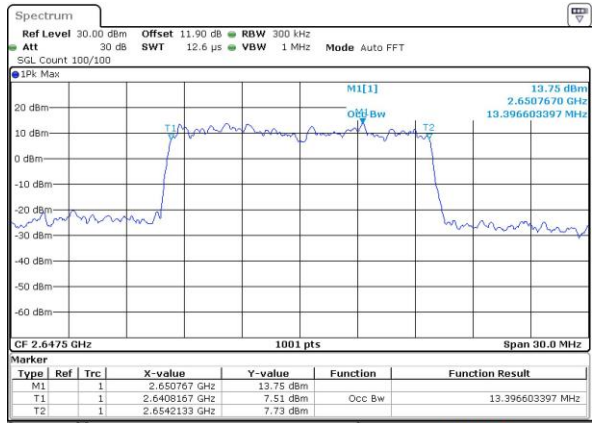
Date: 14 JUN 2017 16:23:20

Highest Channel / 15MHz / QPSK



Date: 14 JUN 2017 16:23:51

Highest Channel / 15MHz / 16QAM



Date: 14 JUN 2017 16:24:01