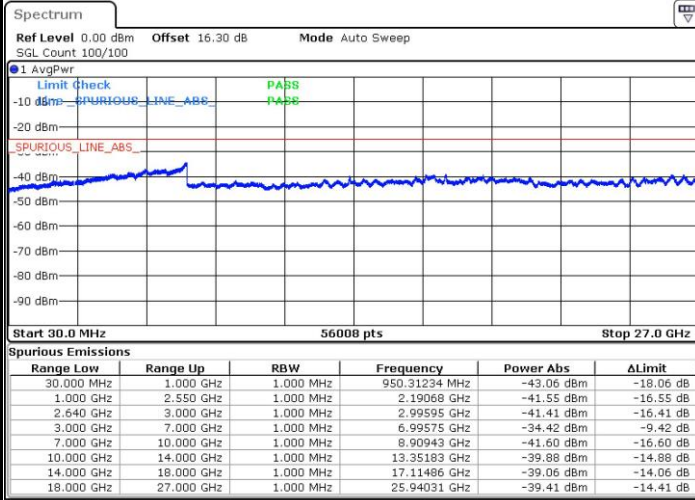




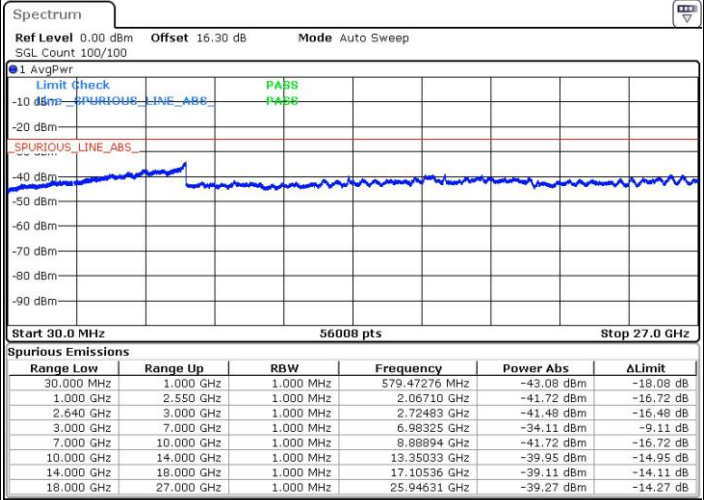
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 25 JUN.2019 05:42:47

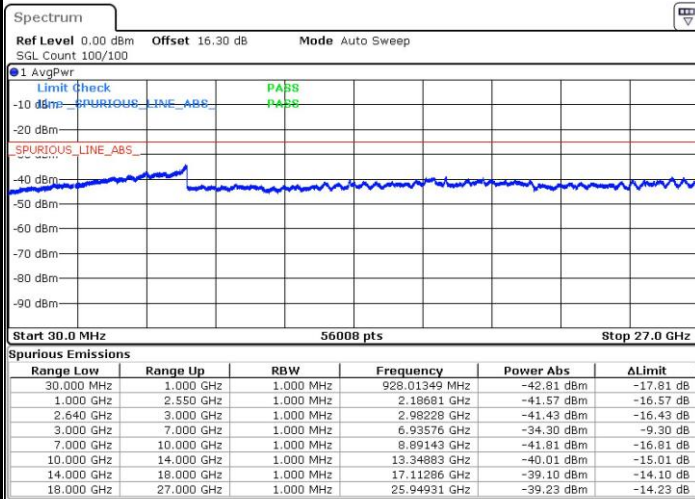
Highest Channel / 16QAM



Date: 25 JUN.2019 05:44:16

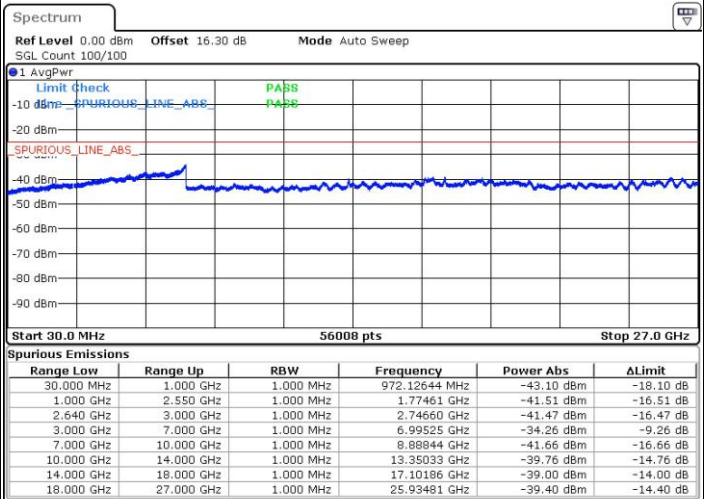
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 25 JUN.2019 05:45:44

Lowest Channel / 16QAM



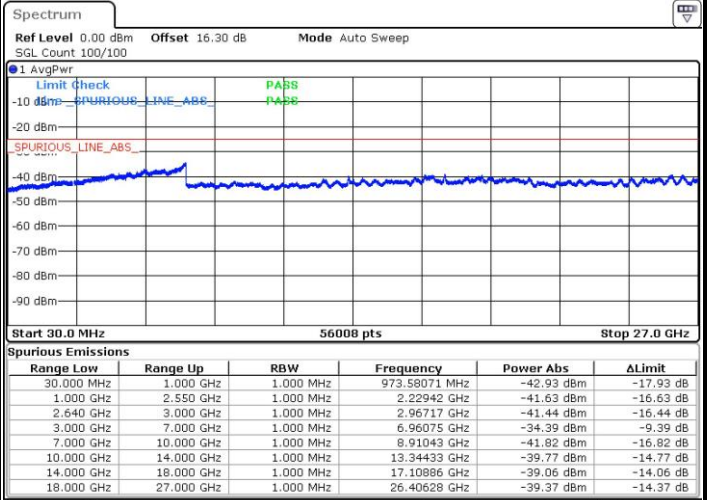
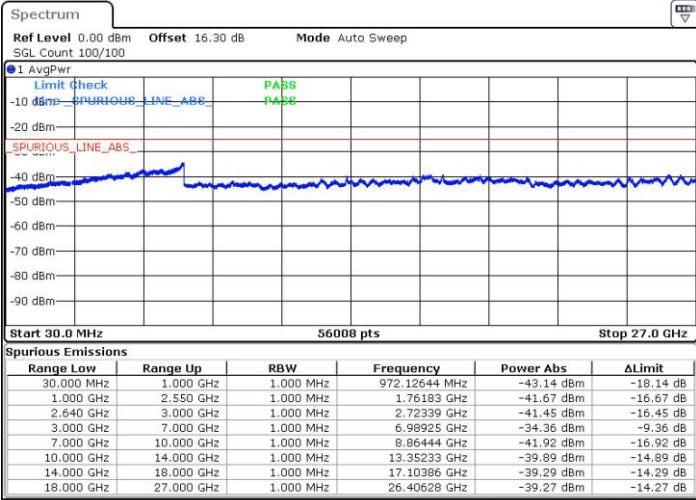
Date: 25 JUN.2019 05:47:13



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

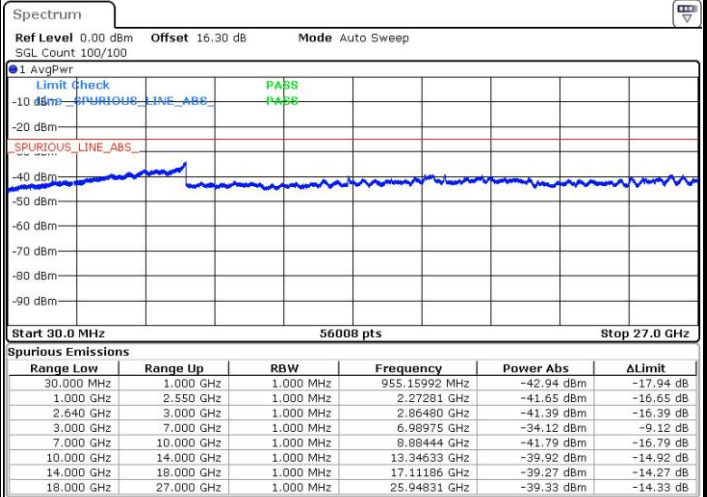
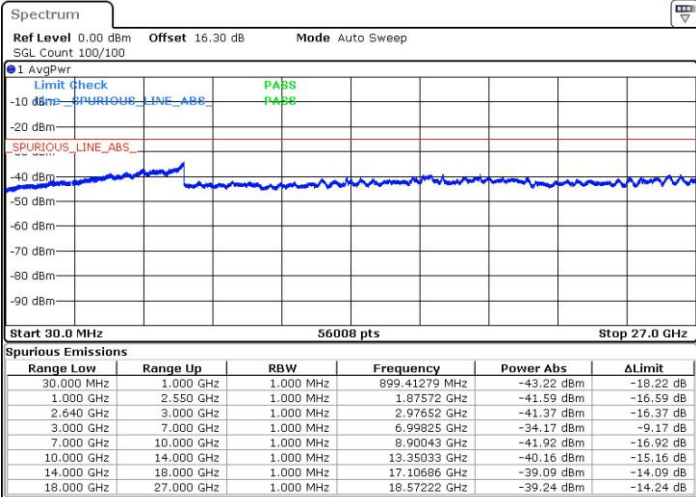


Date: 25 JUN.2019 05:48:41

Date: 25 JUN.2019 05:50:10

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 JUN.2019 05:51:39

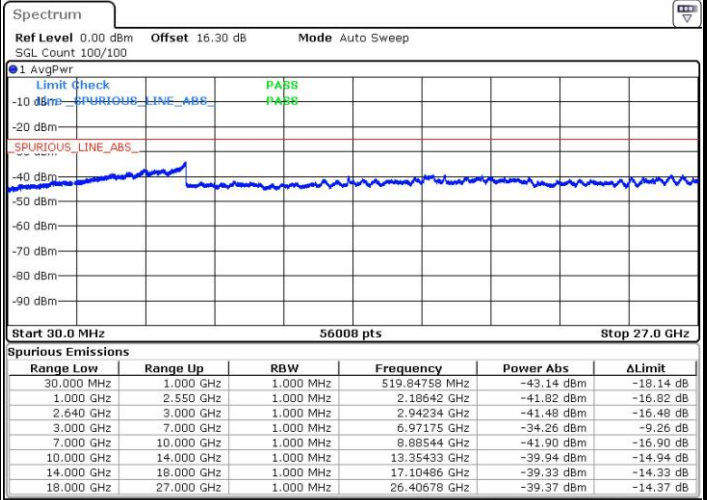
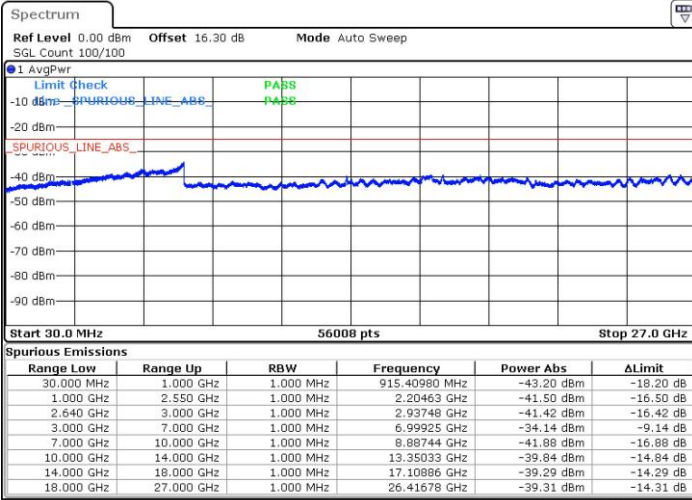
Date: 25 JUN.2019 05:53:08



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

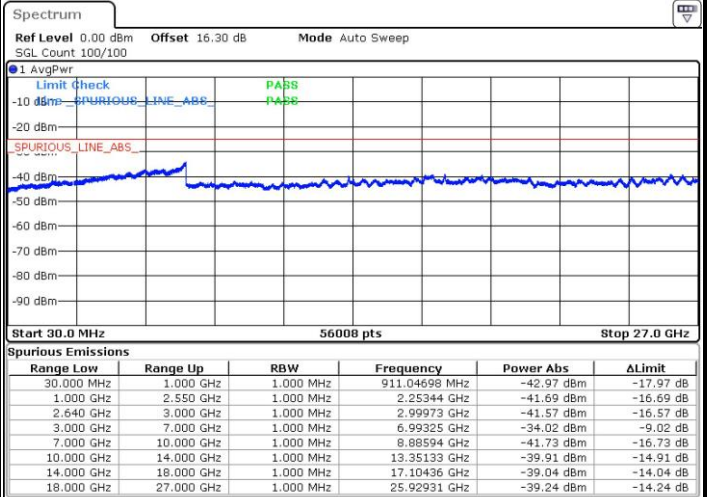
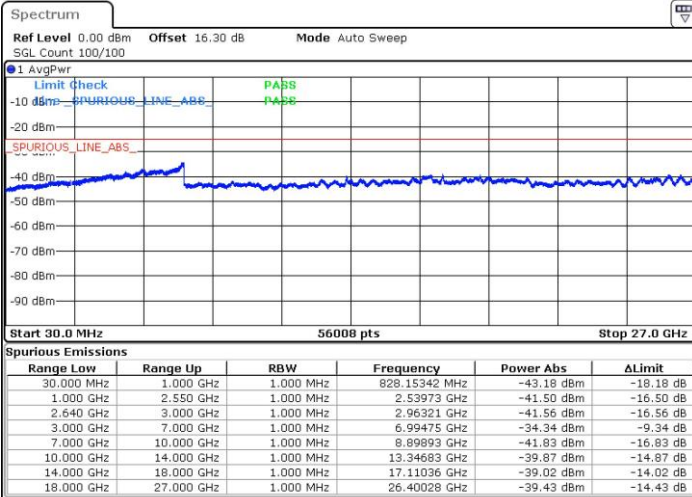


Date: 25 JUN.2019 05:54:36

Date: 25 JUN.2019 05:56:05

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 25 JUN.2019 05:57:33

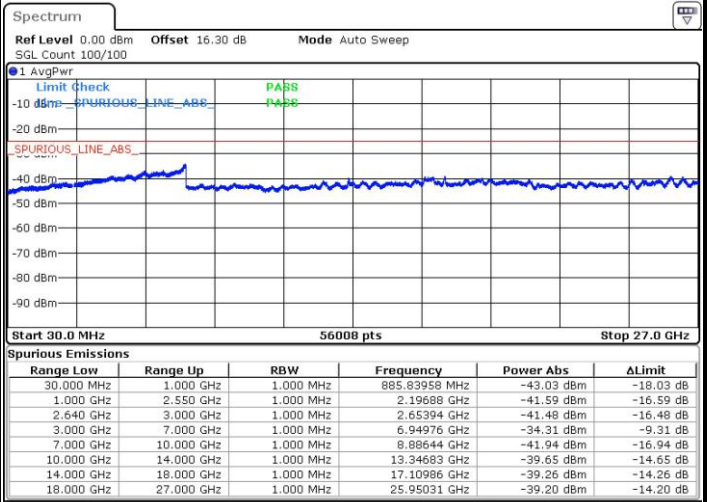
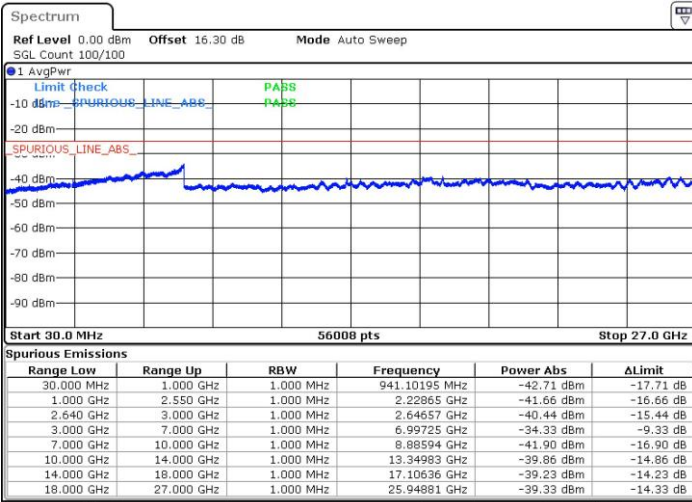
Date: 25 JUN.2019 05:59:02



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



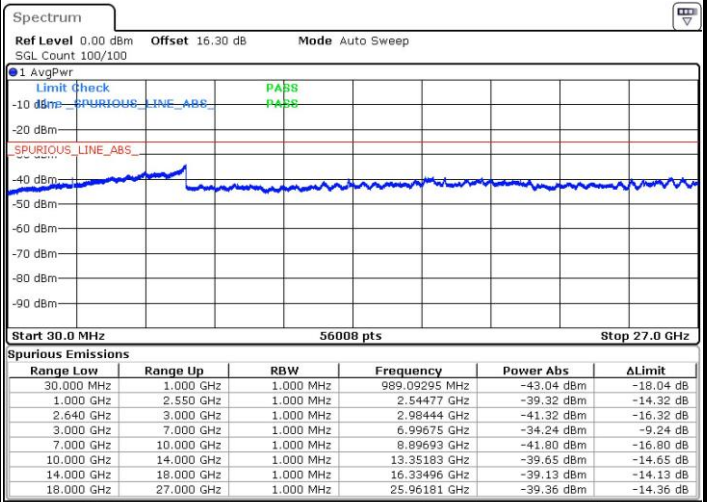
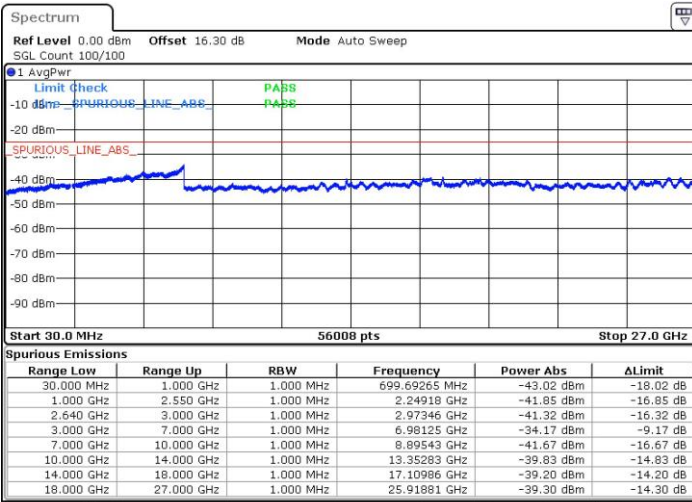
Date: 25 JUN.2019 06:00:30

Date: 25 JUN.2019 06:01:59

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 25 JUN.2019 06:03:28

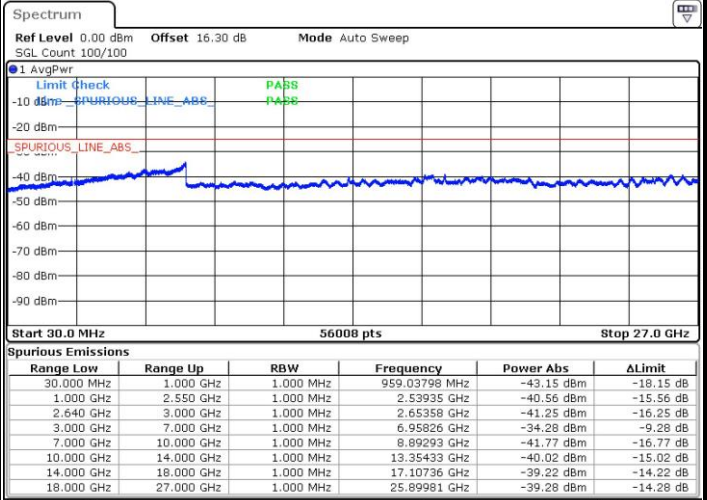
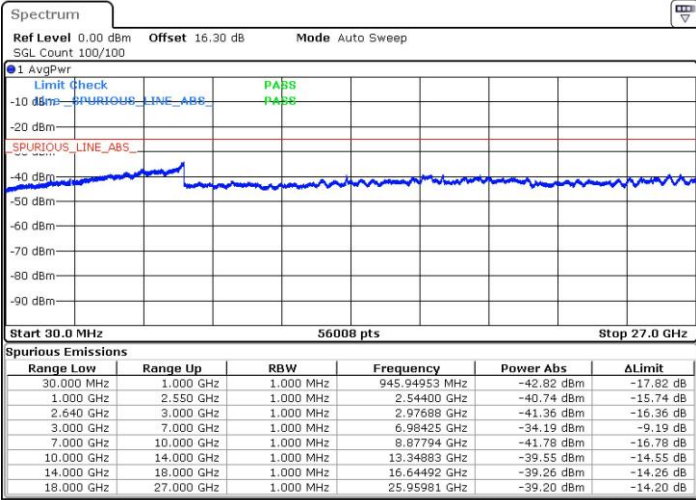
Date: 25 JUN.2019 06:04:56



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

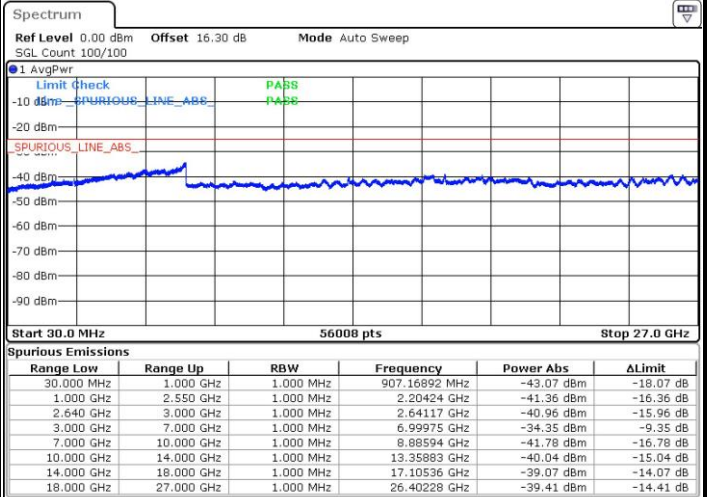
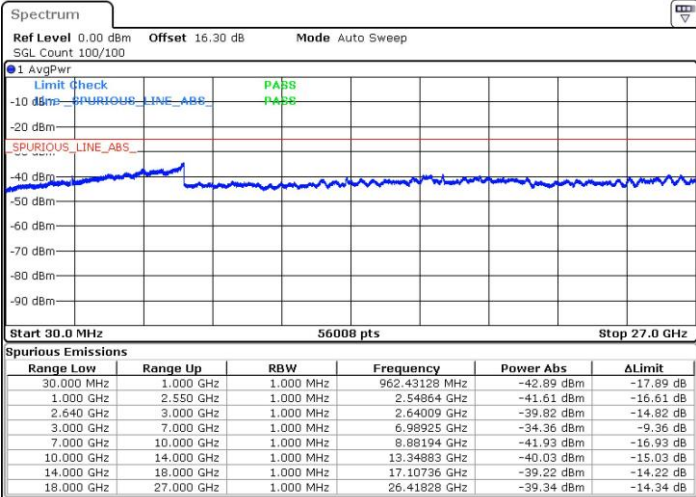


Date: 25 JUN.2019 06:06:25

Date: 25 JUN.2019 06:07:54

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 JUN.2019 06:09:22

Date: 25 JUN.2019 06:10:51



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	0.0009	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =7.7 V. ; Battery End Point (BEP) =6.8 V. ; Maximum Voltage =8.8 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

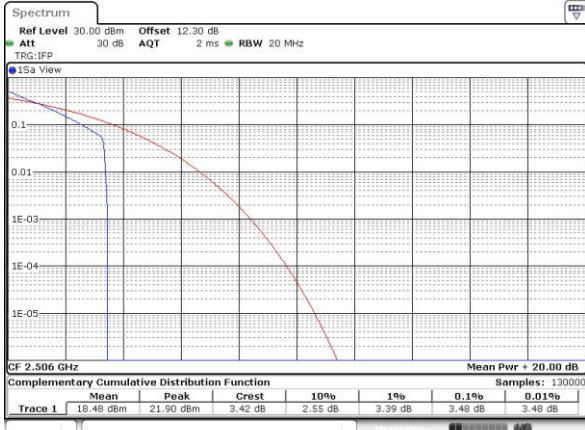
### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.99	4.38	5.94	<b>PASS</b>
Middle CH	3.59	5.01	4.67	5.97	
Highest CH	4.64	5.01	5.36	6.03	



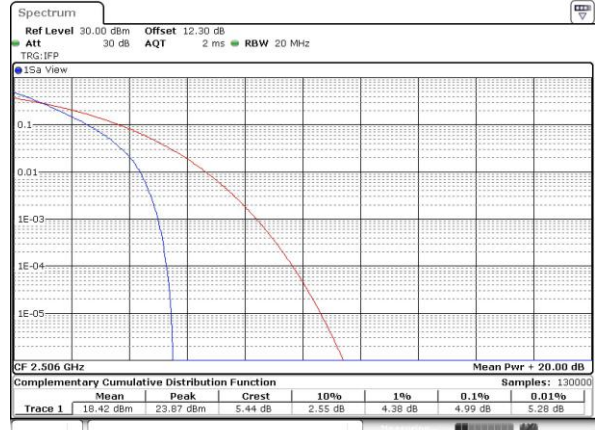
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



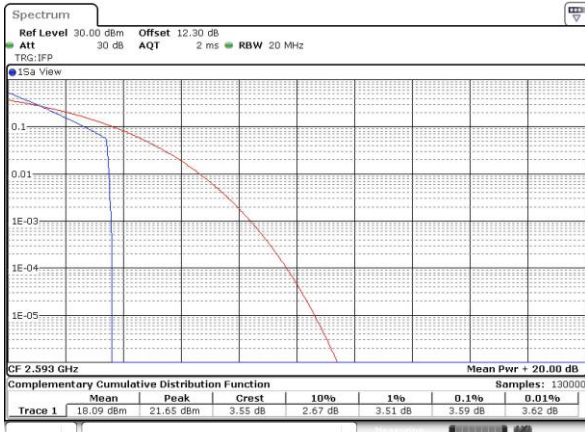
Date: 25 JUN 2019 07:16:23

Lowest Channel / Full RB



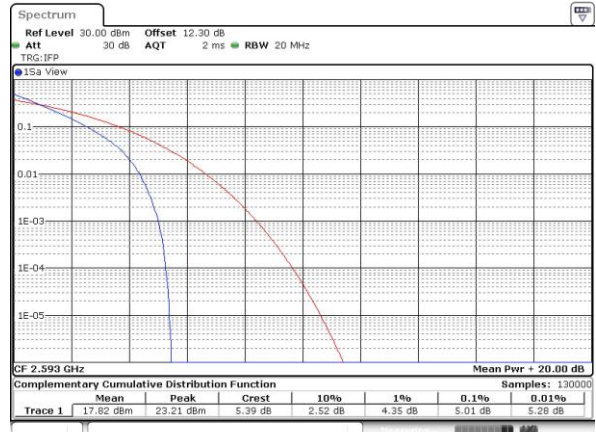
Date: 25 JUN 2019 07:16:37

Middle Channel / 1RB



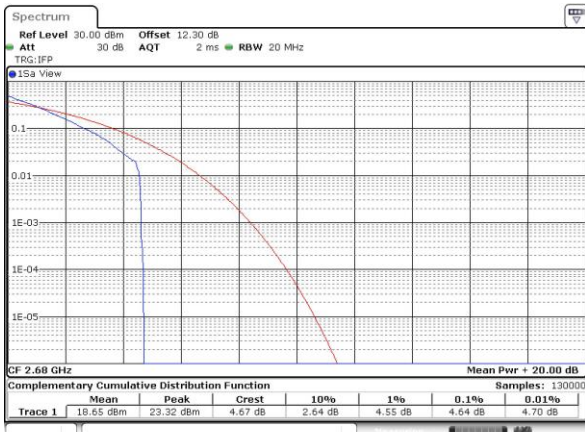
Date: 25 JUN 2019 07:16:52

Middle Channel / Full RB



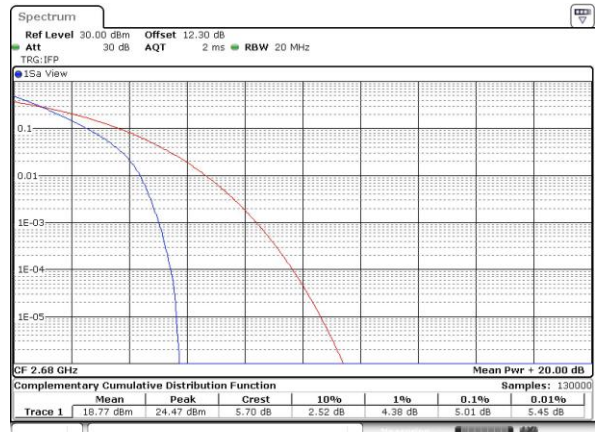
Date: 25 JUN 2019 07:17:07

Highest Channel / 1RB



Date: 25 JUN 2019 07:17:21

Highest Channel / Full RB



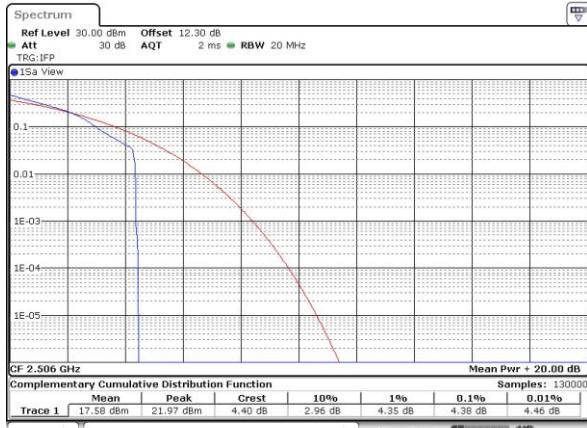
Date: 25 JUN 2019 07:17:36





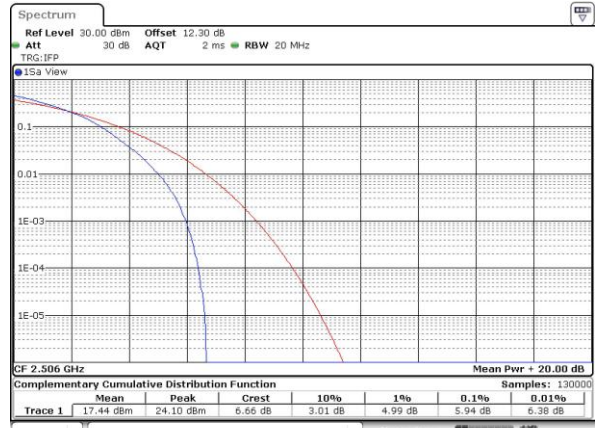
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 25 JUN 2019 07:14:57

Lowest Channel / Full RB



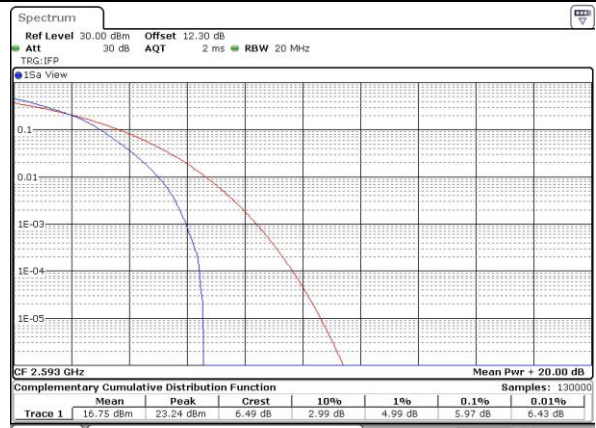
Date: 25 JUN 2019 07:15:11

Middle Channel / 1RB



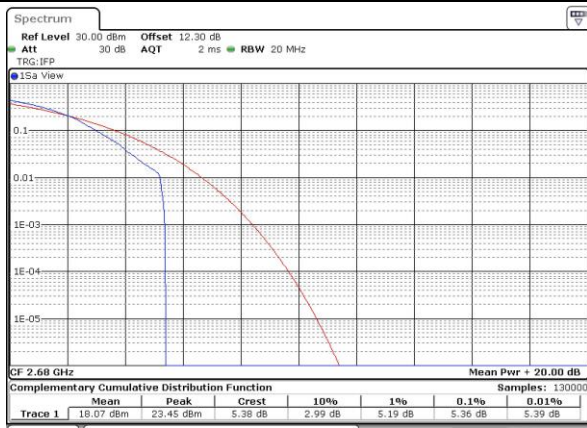
Date: 25 JUN 2019 07:15:26

Middle Channel / Full RB



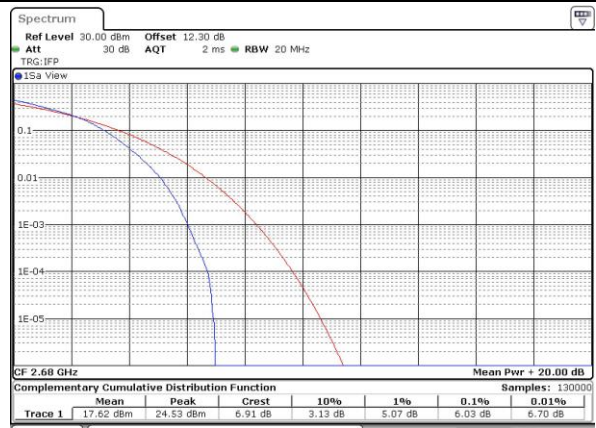
Date: 25 JUN 2019 07:15:40

Highest Channel / 1RB



Date: 25 JUN 2019 07:15:54

Highest Channel / Full RB



Date: 25 JUN 2019 07:16:08



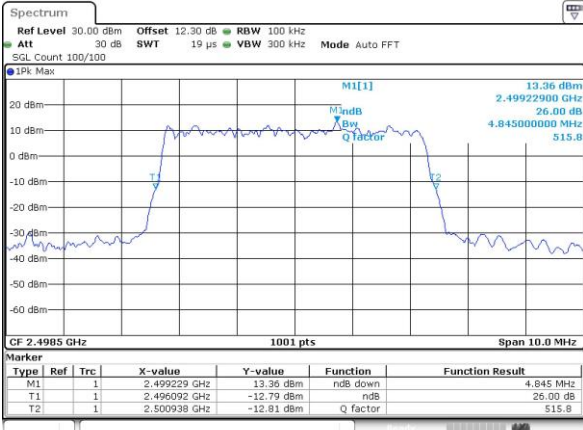
**26dB Bandwidth**

Mode BW Mod.	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.84	4.83	9.86	9.73	14.32	14.35	18.62	18.86
Middle CH	-	-	-	-	4.82	5.08	9.75	9.73	14.35	14.14	19.1	18.98
Highest CH	-	-	-	-	4.94	4.86	9.63	9.78	14.35	14.2	19.98	18.82



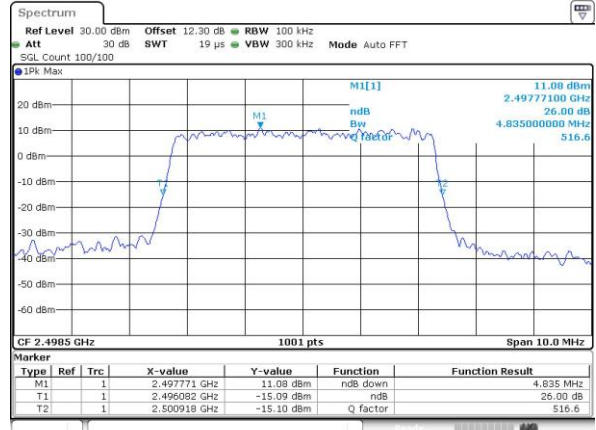
LTE Band 41

Lowest Channel / 5MHz / QPSK



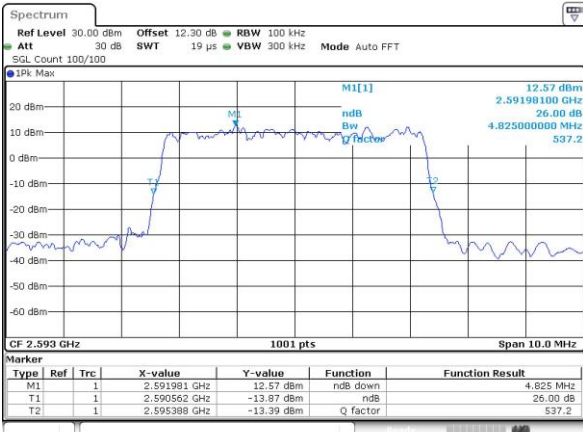
Date: 28 JUN 2019 07:05:44

Lowest Channel / 5MHz / 16QAM



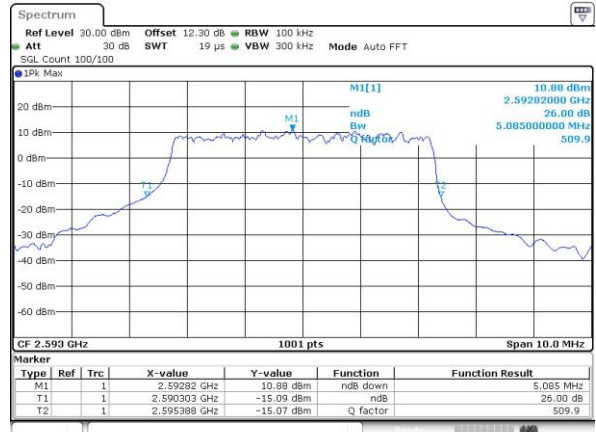
Date: 28 JUN 2019 07:10:55

Middle Channel / 5MHz / QPSK



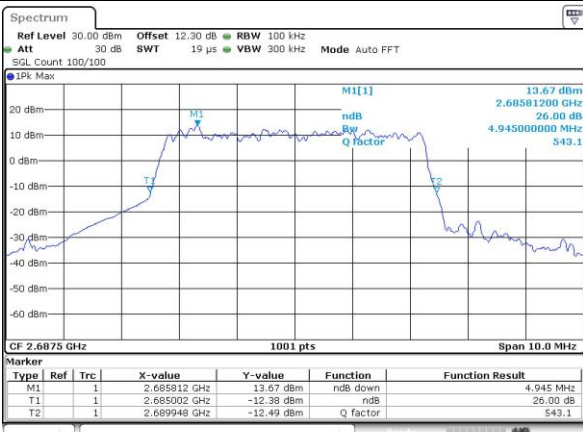
Date: 28 JUN 2019 07:06:30

Middle Channel / 5MHz / 16QAM



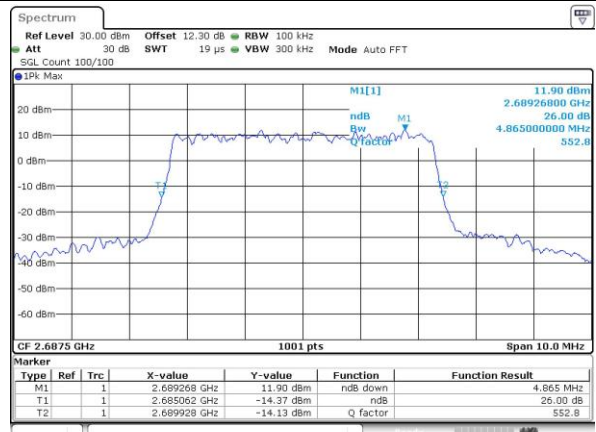
Date: 28 JUN 2019 07:06:41

Highest Channel / 5MHz / QPSK



Date: 28 JUN 2019 07:07:16

Highest Channel / 5MHz / 16QAM

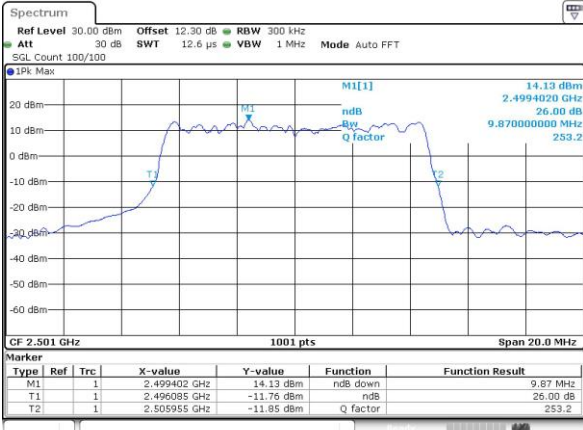


Date: 28 JUN 2019 07:10:27



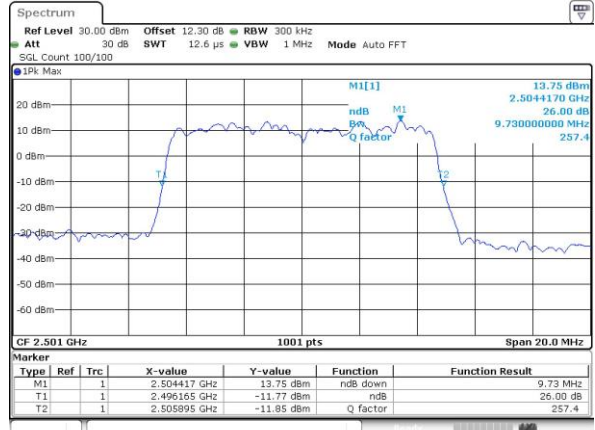
LTE Band 41

Lowest Channel / 10MHz / QPSK



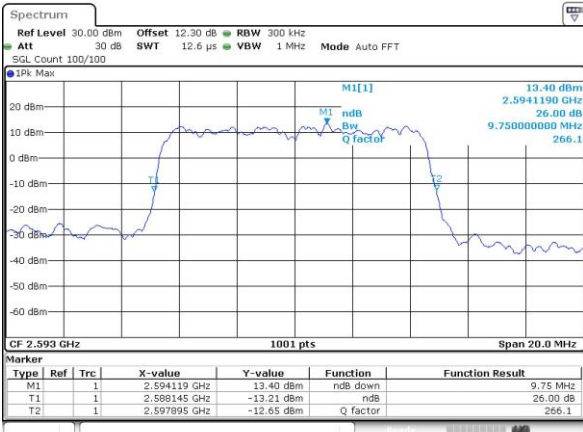
Date: 28 JUN 2019 07:08:02

Lowest Channel / 10MHz / 16QAM



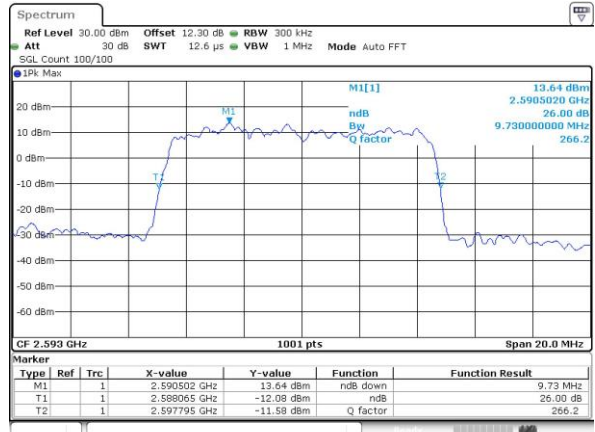
Date: 28 JUN 2019 07:08:13

Middle Channel / 10MHz / QPSK



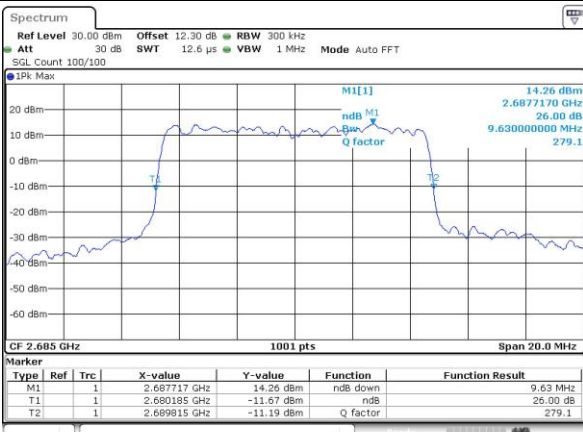
Date: 28 JUN 2019 07:08:48

Middle Channel / 10MHz / 16QAM



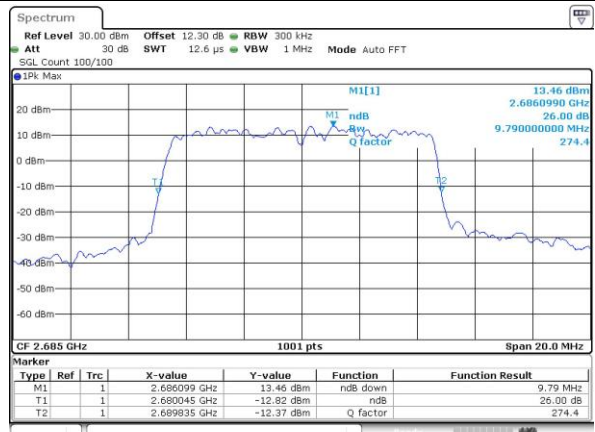
Date: 28 JUN 2019 07:08:00

Highest Channel / 10MHz / QPSK



Date: 28 JUN 2019 07:09:34

Highest Channel / 10MHz / 16QAM

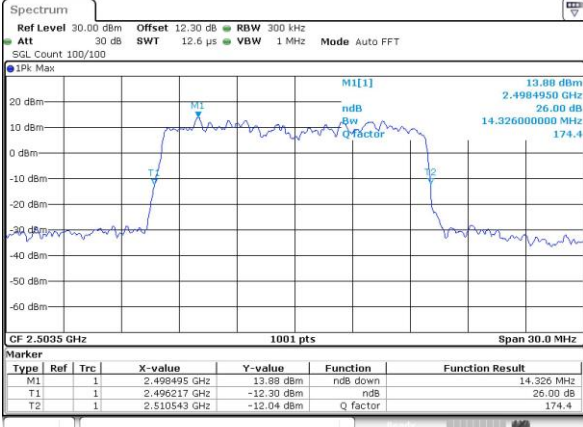


Date: 28 JUN 2019 07:09:46



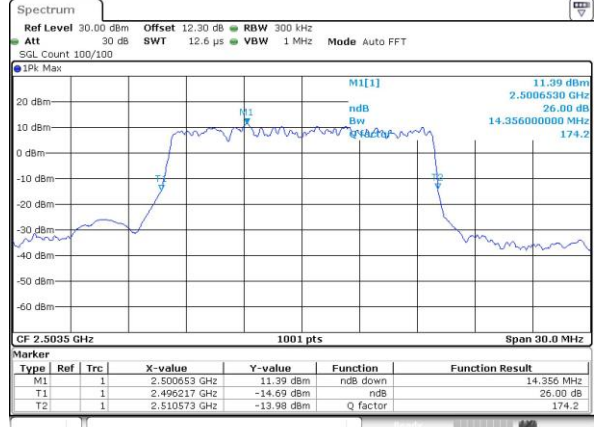
LTE Band 41

Lowest Channel / 15MHz / QPSK



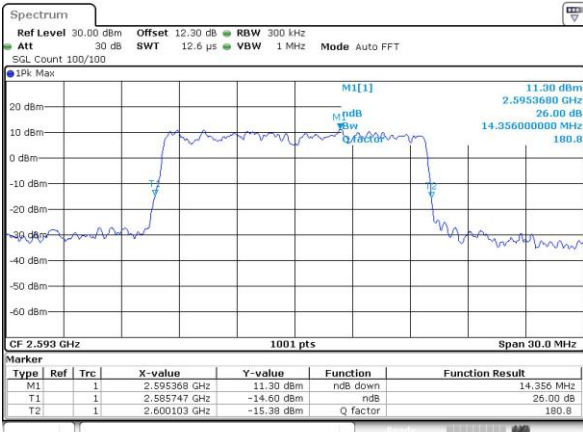
Date: 28 JUN 2019 07:10:20

Lowest Channel / 15MHz / 16QAM



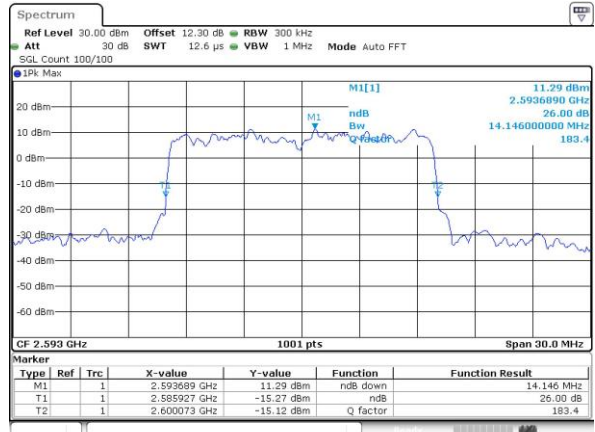
Date: 28 JUN 2019 07:10:31

Middle Channel / 15MHz / QPSK



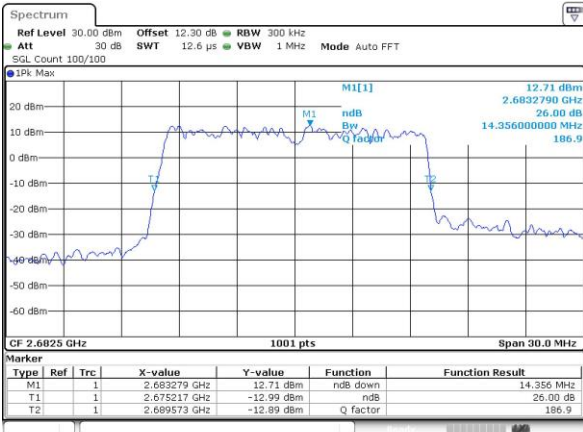
Date: 28 JUN 2019 07:11:06

Middle Channel / 15MHz / 16QAM



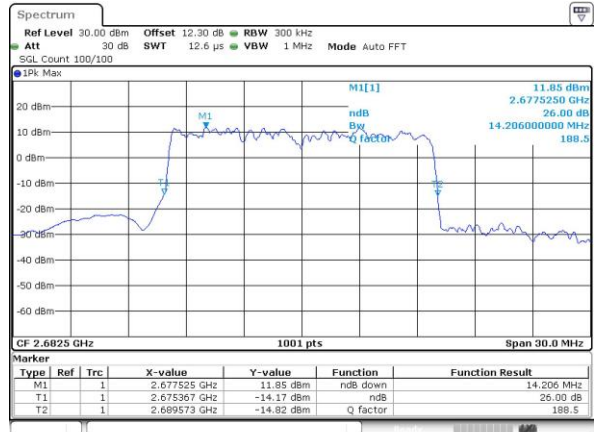
Date: 28 JUN 2019 07:11:17

Highest Channel / 15MHz / QPSK



Date: 28 JUN 2019 07:11:52

Highest Channel / 15MHz / 16QAM

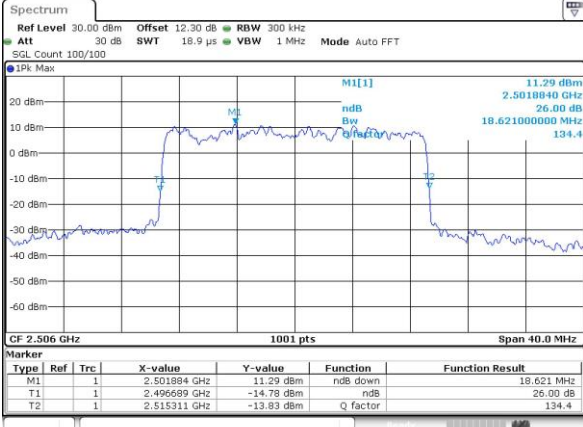


Date: 28 JUN 2019 07:12:03



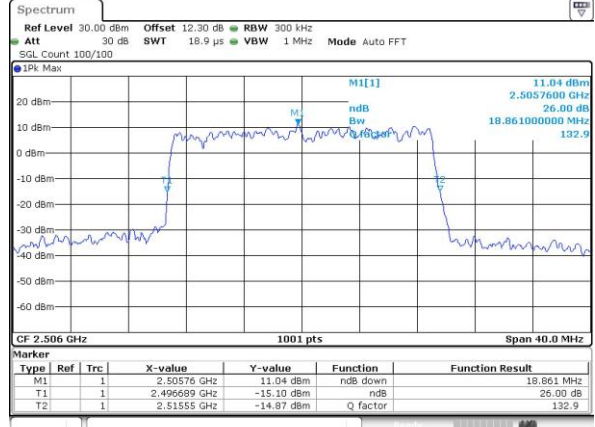
LTE Band 41

Lowest Channel / 20MHz / QPSK



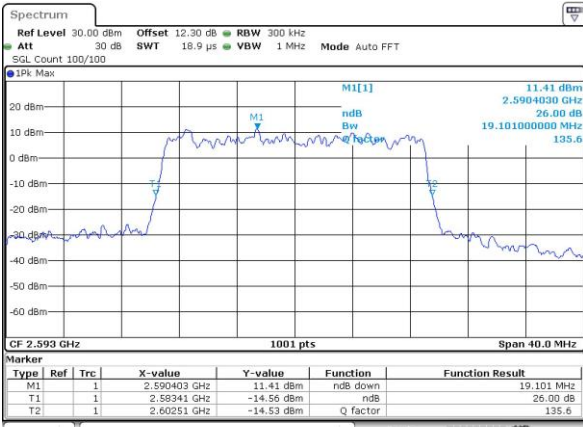
Date: 28 JUN 2019 07:12:38

Lowest Channel / 20MHz / 16QAM



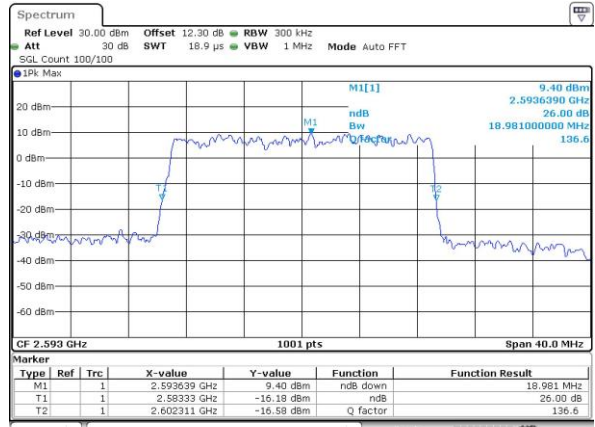
Date: 28 JUN 2019 07:12:50

Middle Channel / 20MHz / QPSK



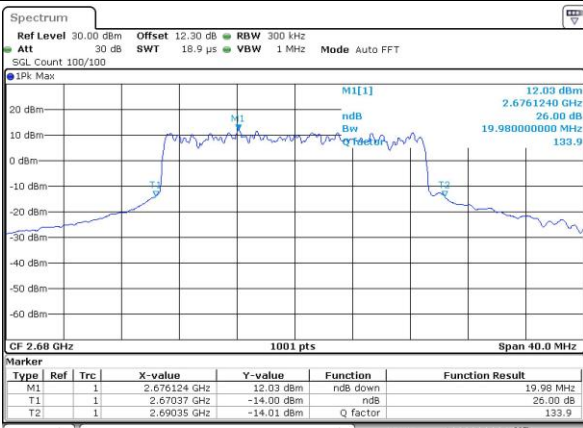
Date: 28 JUN 2019 07:13:24

Middle Channel / 20MHz / 16QAM



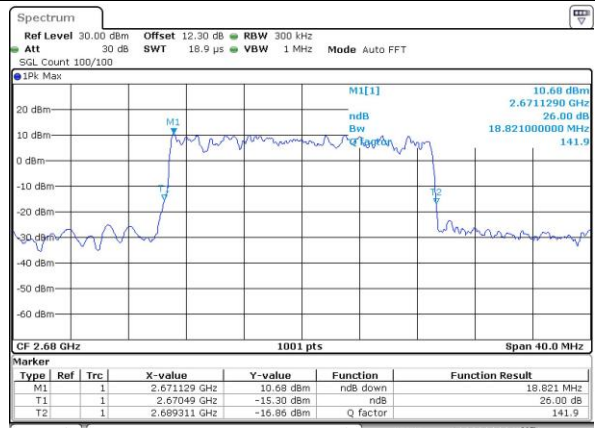
Date: 28 JUN 2019 07:13:36

Highest Channel / 20MHz / QPSK



Date: 28 JUN 2019 07:14:10

Highest Channel / 20MHz / 16QAM



Date: 28 JUN 2019 07:14:22



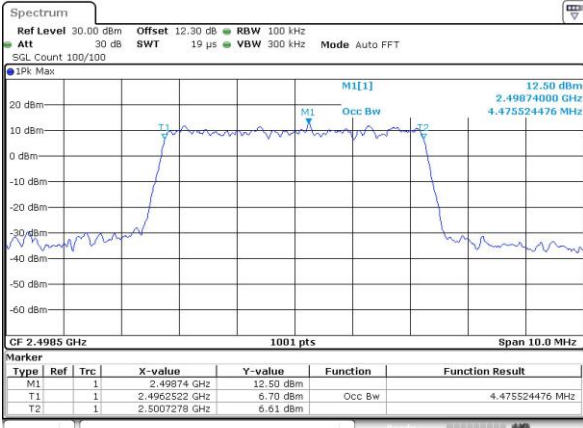
**Occupied Bandwidth**

Mode BW Mod.	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.47	4.46	9.03	8.93	13.39	13.42	18.02	17.9
Middle CH	-	-	-	-	4.49	4.48	9.01	8.93	13.45	13.42	17.94	17.86
Highest CH	-	-	-	-	4.44	4.49	9.05	9.05	13.45	13.45	17.9	17.82



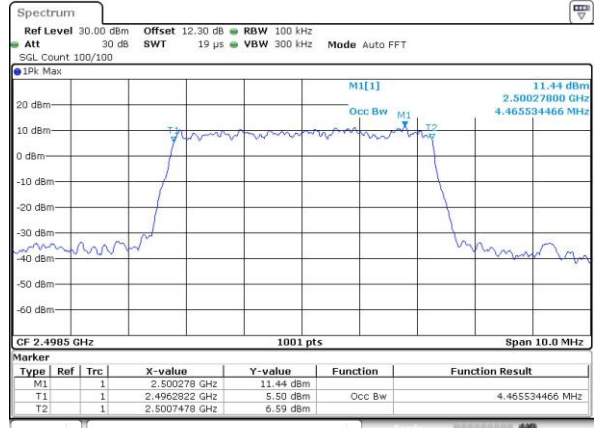
LTE Band 41

Lowest Channel / 5MHz / QPSK



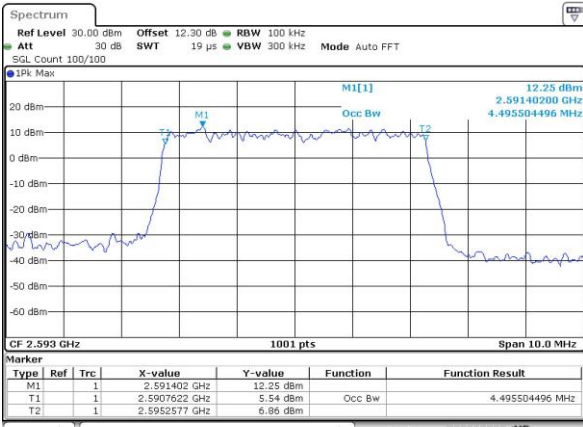
Date: 28 JUN 2019 07:05:21

Lowest Channel / 5MHz / 16QAM



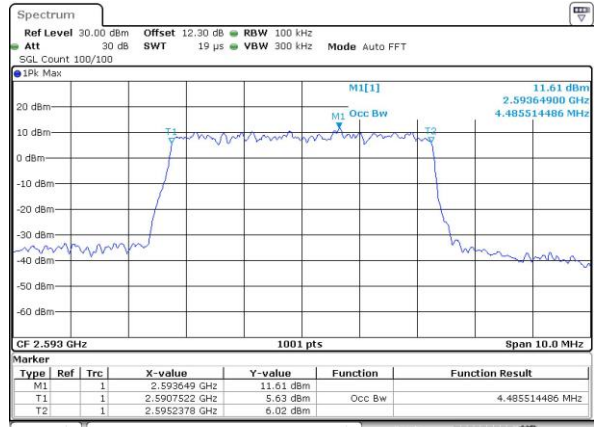
Date: 28 JUN 2019 07:10:32

Middle Channel / 5MHz / QPSK



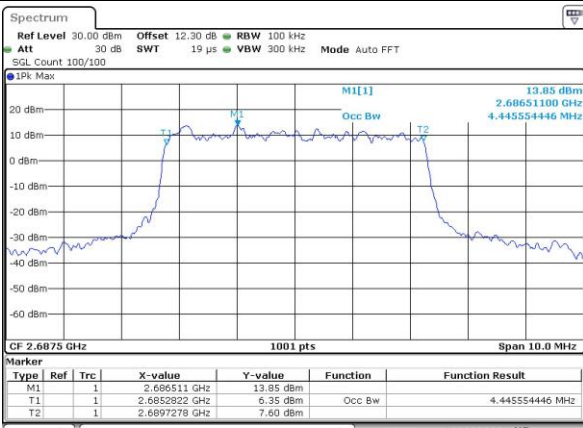
Date: 28 JUN 2019 07:06:07

Middle Channel / 5MHz / 16QAM



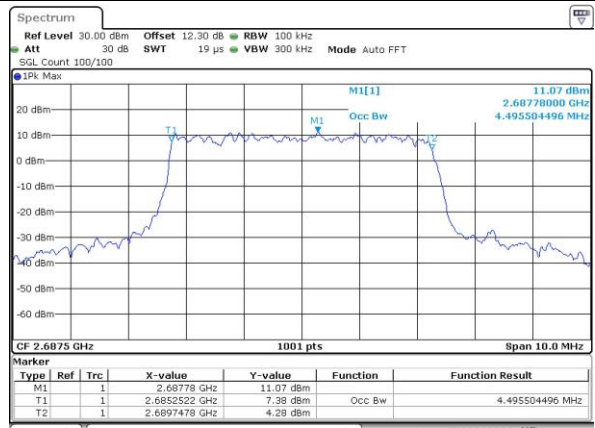
Date: 28 JUN 2019 07:06:18

Highest Channel / 5MHz / QPSK



Date: 28 JUN 2019 07:06:53

Highest Channel / 5MHz / 16QAM



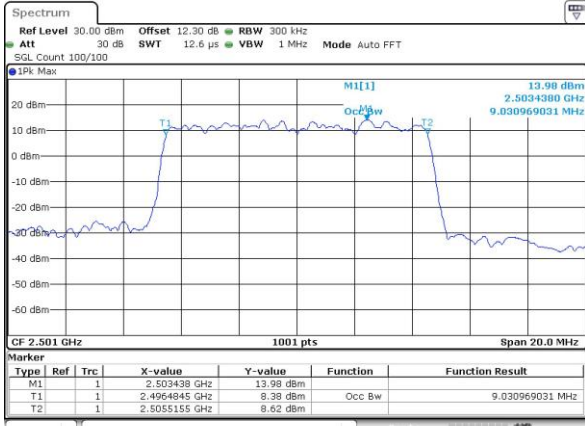
Date: 28 JUN 2019 07:10:04





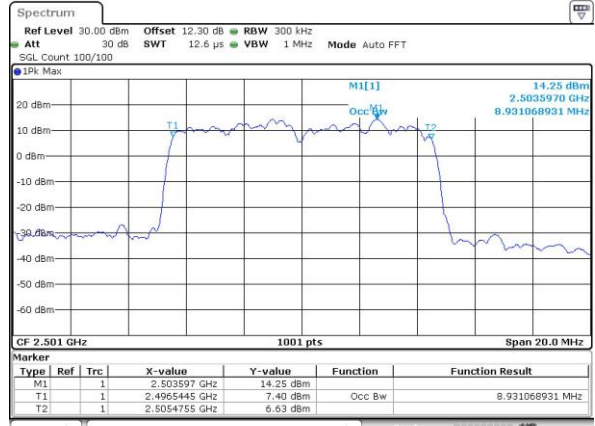
LTE Band 41

Lowest Channel / 10MHz / QPSK



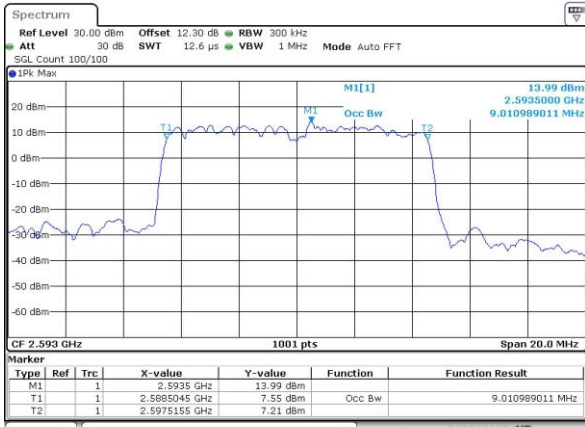
Date: 28 JUN 2019 07:07:39

Lowest Channel / 10MHz / 16QAM



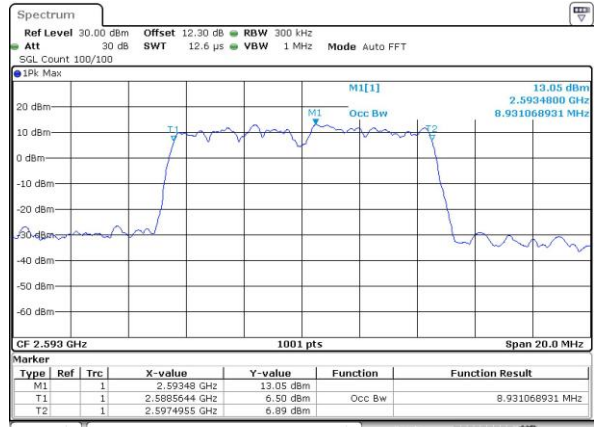
Date: 28 JUN 2019 07:10:50

Middle Channel / 10MHz / QPSK



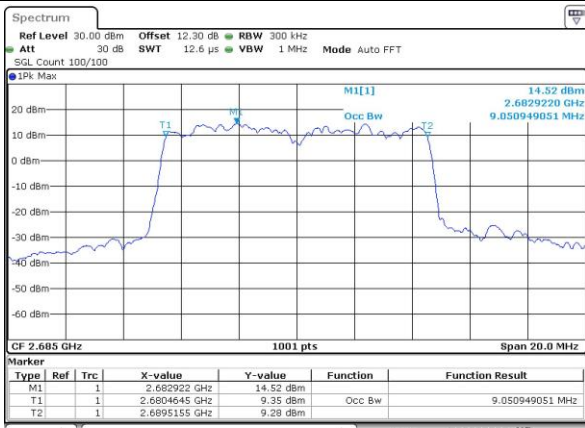
Date: 28 JUN 2019 07:08:25

Middle Channel / 10MHz / 16QAM



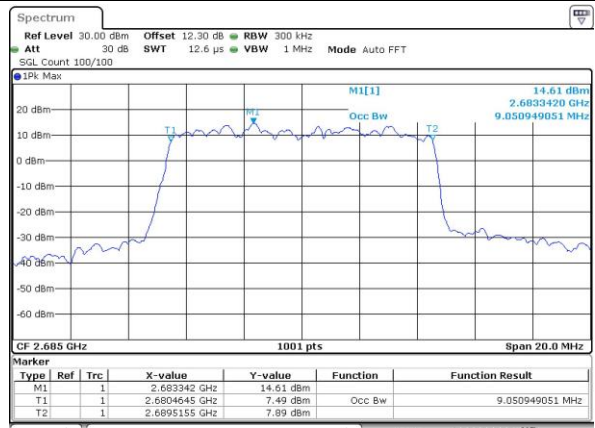
Date: 28 JUN 2019 07:08:36

Highest Channel / 10MHz / QPSK



Date: 28 JUN 2019 07:09:11

Highest Channel / 10MHz / 16QAM

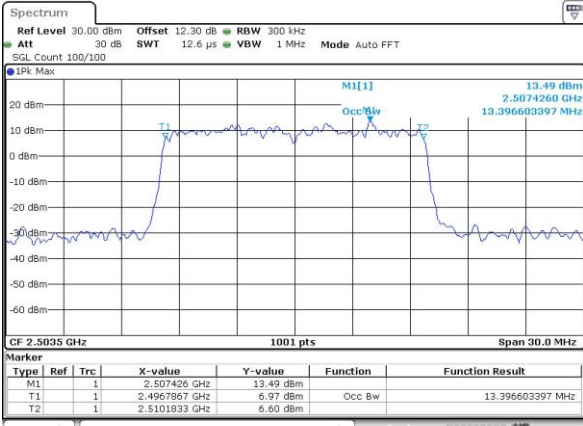


Date: 28 JUN 2019 07:10:23



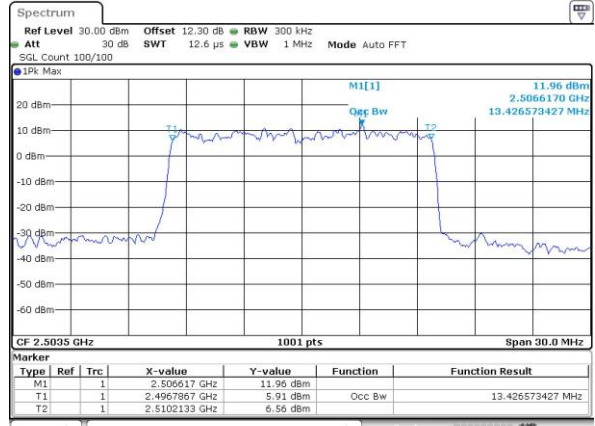
LTE Band 41

Lowest Channel / 15MHz / QPSK



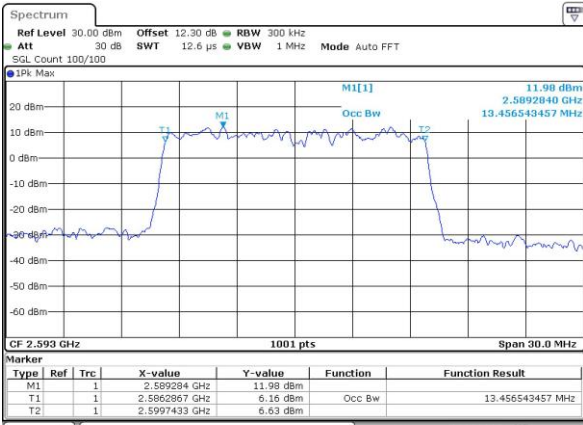
Date: 28 JUN 2019 07:09:57

Lowest Channel / 15MHz / 16QAM



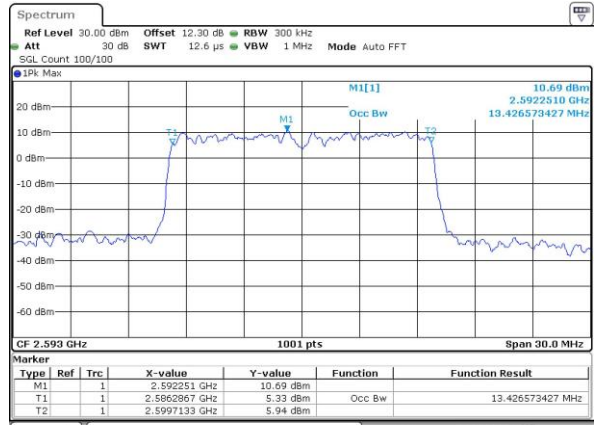
Date: 28 JUN 2019 07:10:09

Middle Channel / 15MHz / QPSK



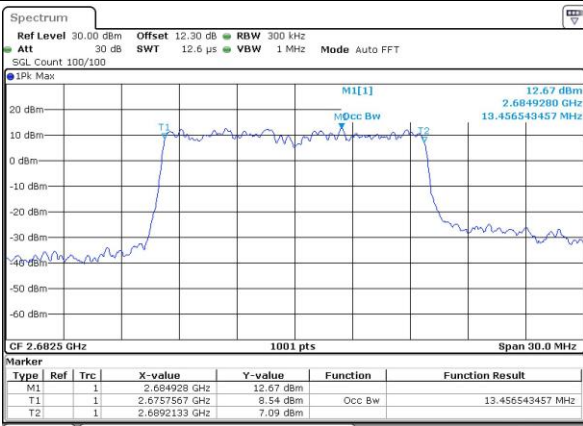
Date: 28 JUN 2019 07:10:43

Middle Channel / 15MHz / 16QAM



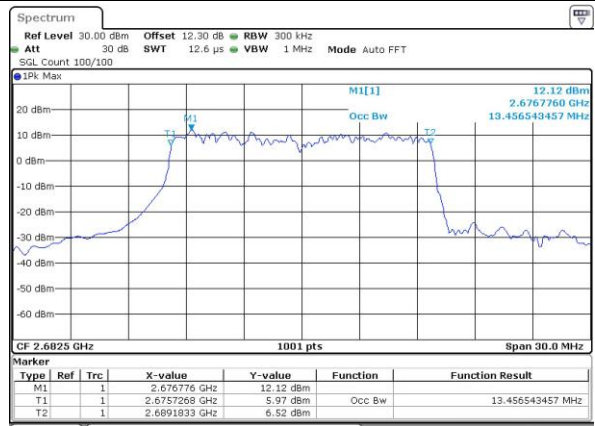
Date: 28 JUN 2019 07:10:55

Highest Channel / 15MHz / QPSK



Date: 28 JUN 2019 07:11:29

Highest Channel / 15MHz / 16QAM

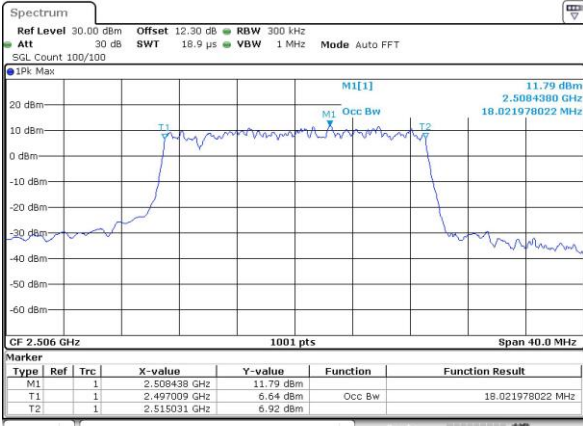


Date: 28 JUN 2019 07:11:41



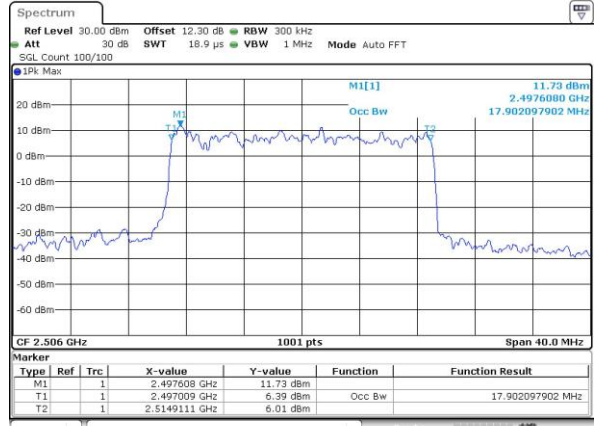
LTE Band 41

Lowest Channel / 20MHz / QPSK



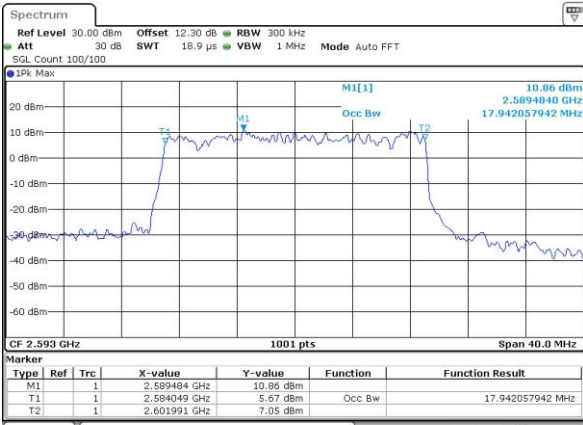
Date: 28 JUN 2019 07:12:15

Lowest Channel / 20MHz / 16QAM



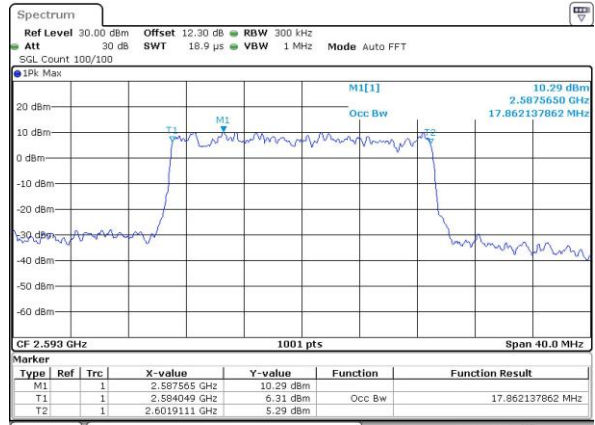
Date: 28 JUN 2019 07:12:27

Middle Channel / 20MHz / QPSK



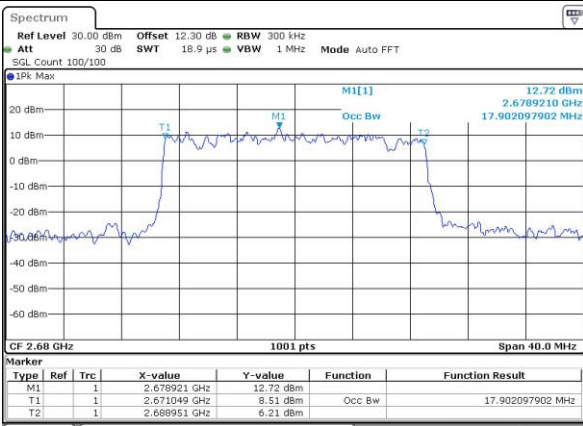
Date: 28 JUN 2019 07:13:01

Middle Channel / 20MHz / 16QAM



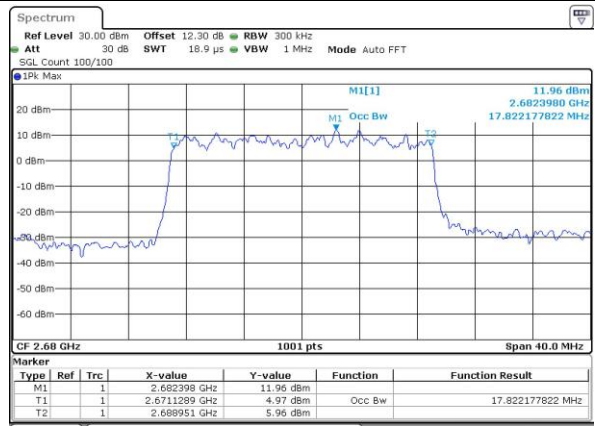
Date: 28 JUN 2019 07:13:13

Highest Channel / 20MHz / QPSK



Date: 28 JUN 2019 07:13:47

Highest Channel / 20MHz / 16QAM



Date: 28 JUN 2019 07:13:59