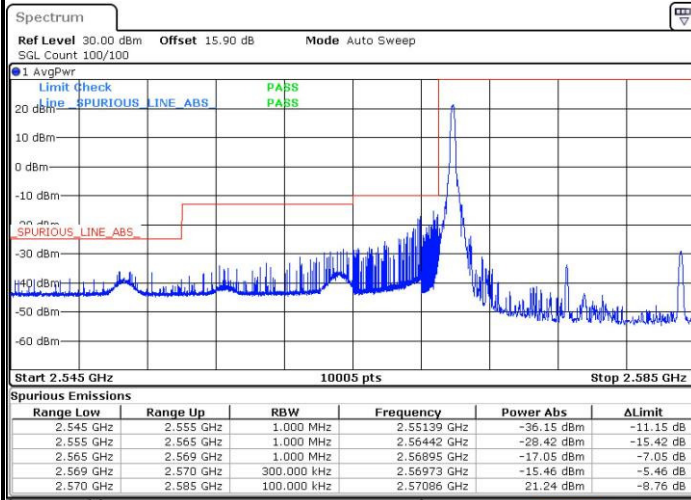


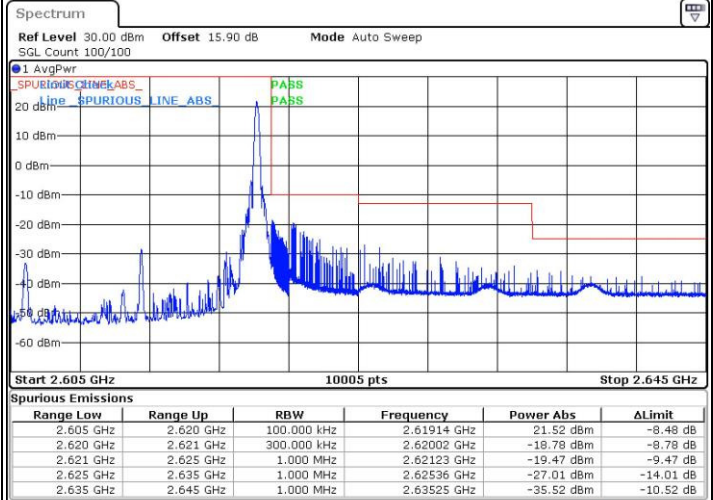


LTE Band 38 / 15MHz / 16QAM

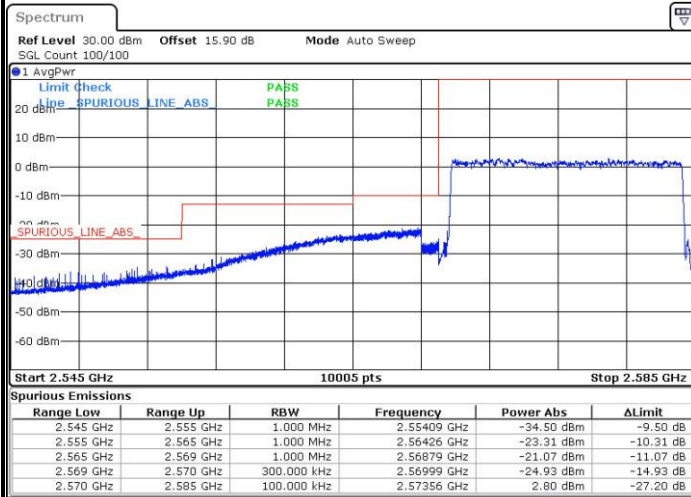
Lowest Band Edge / 1 RB



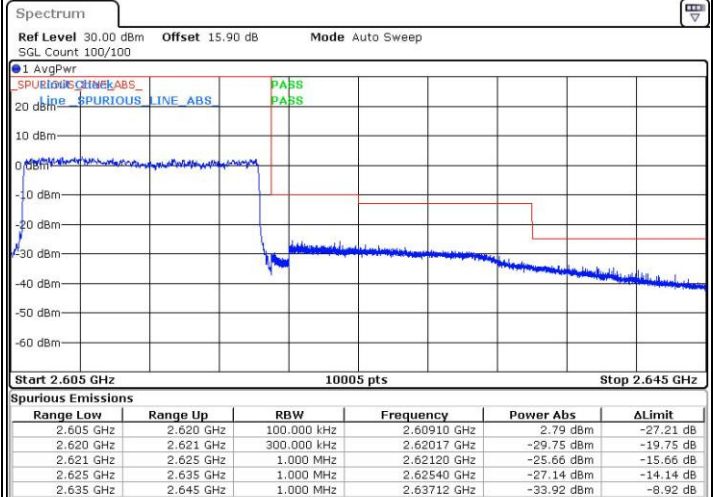
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



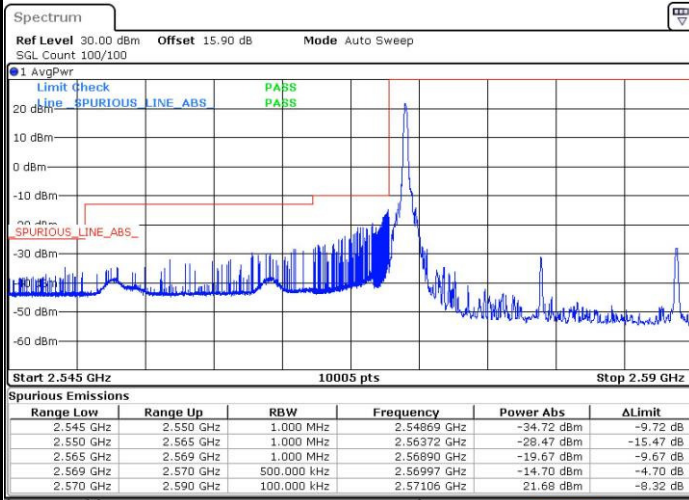
Highest Band Edge / Full RB



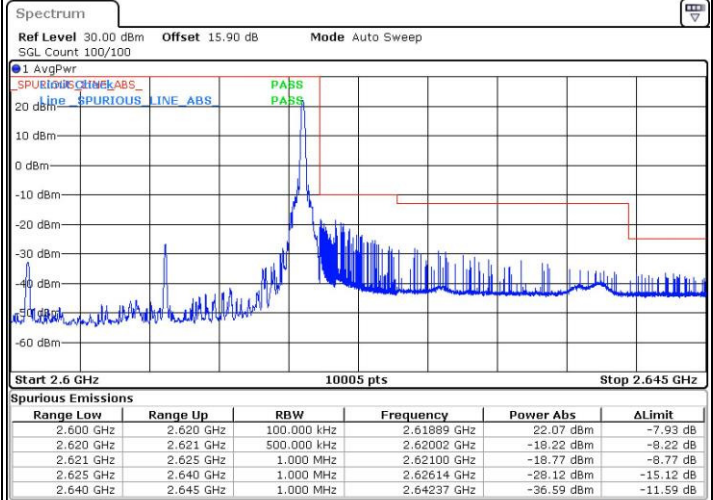


LTE Band 38 / 20MHz / QPSK

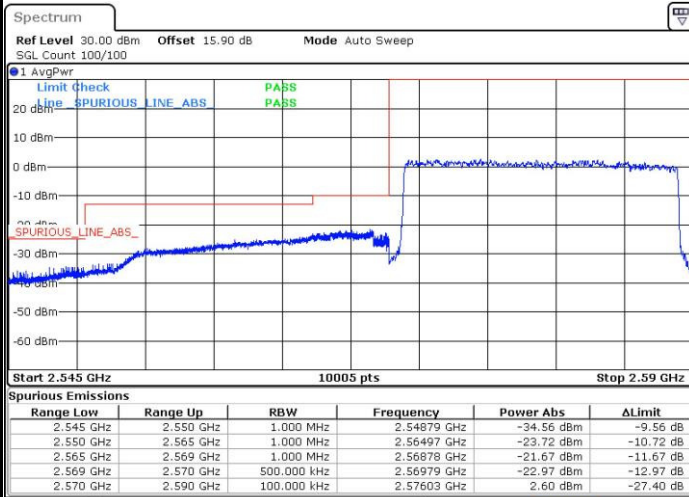
Lowest Band Edge / 1 RB



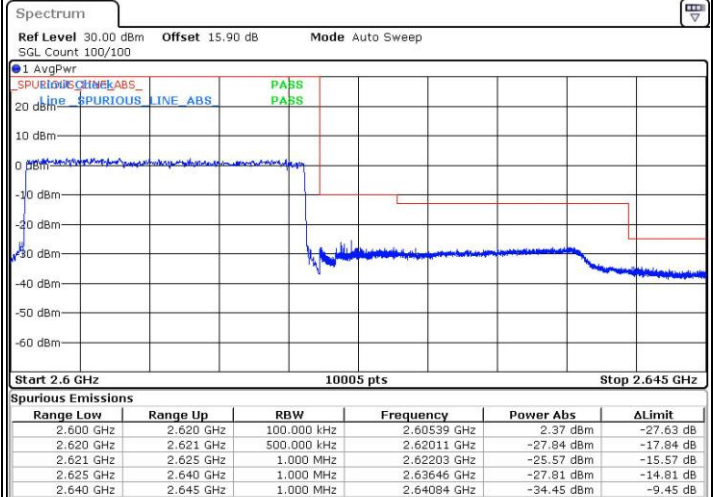
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



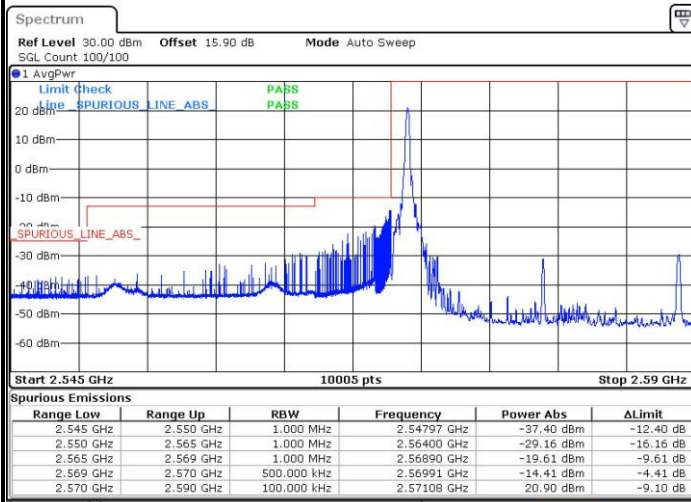
Highest Band Edge / Full RB



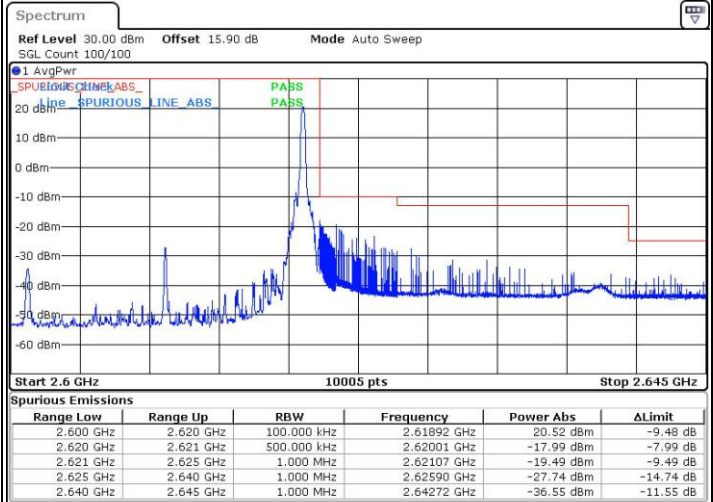


LTE Band 38 / 20MHz / 16QAM

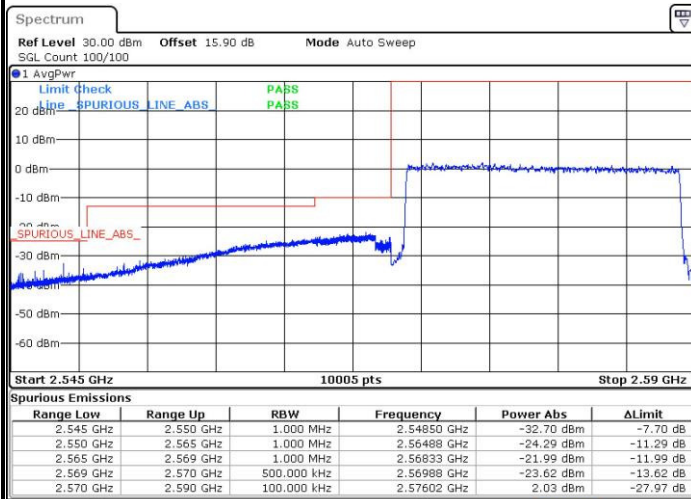
Lowest Band Edge / 1 RB



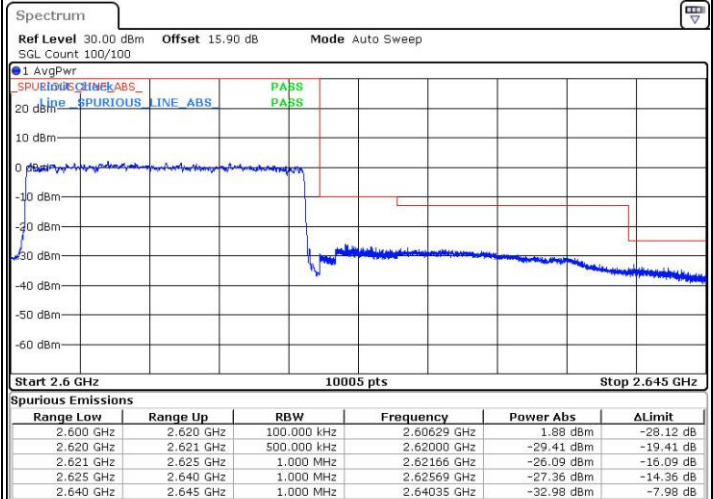
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

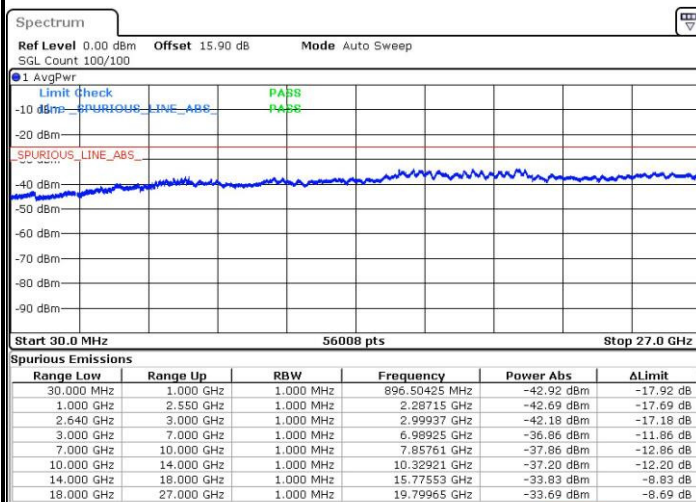




Conducted Spurious Emission

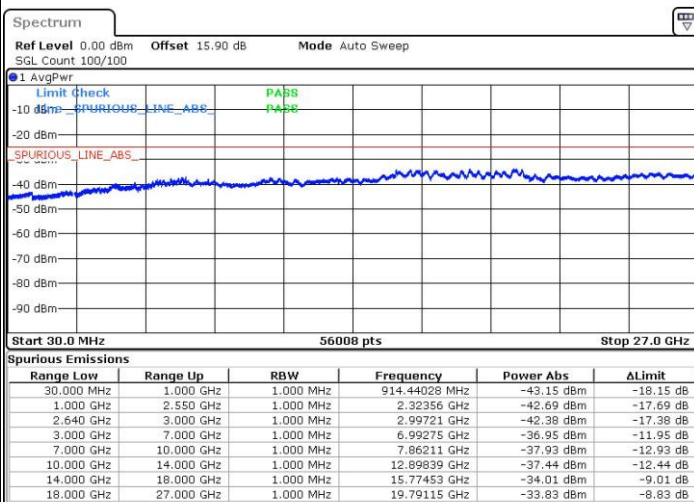
LTE Band 38 / 5MHz

Lowest Channel / QPSK



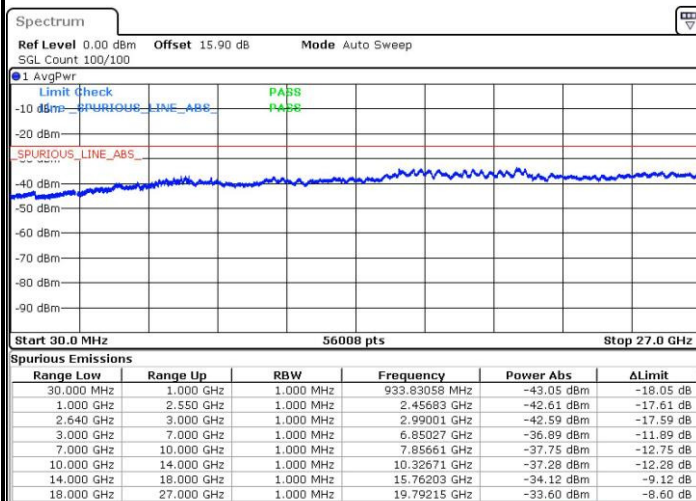
Date: 11.JAN.2017 15:11:15

Lowest Channel / 16QAM



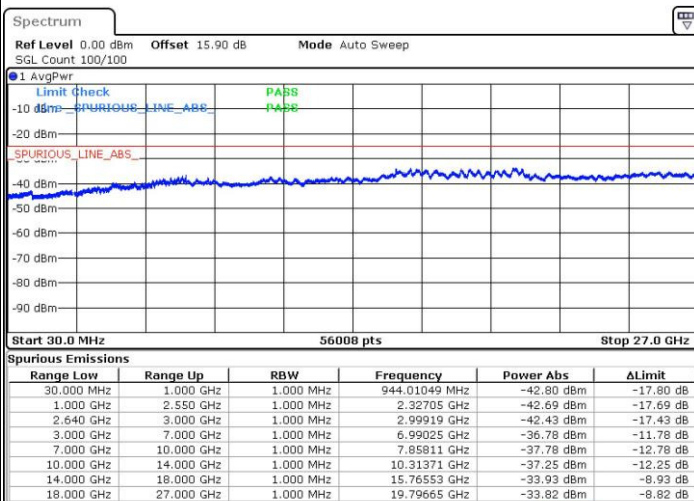
Date: 11.JAN.2017 15:12:10

Middle Channel / QPSK



Date: 11.JAN.2017 15:13:05

Middle Channel / 16QAM

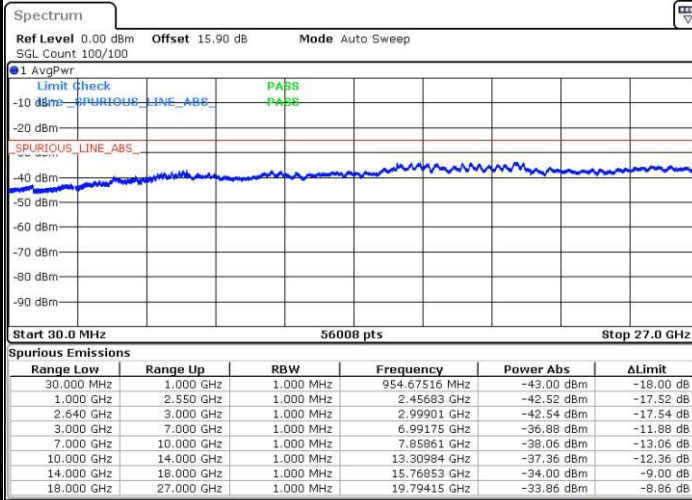


Date: 11.JAN.2017 15:14:00



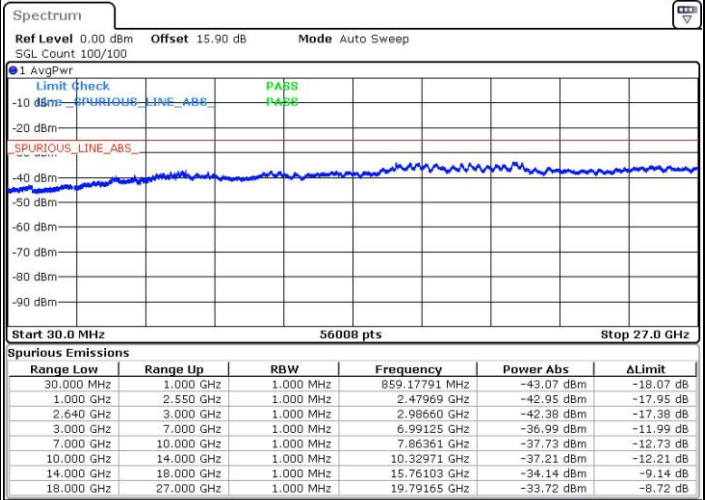
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 11.JAN.2017 15:14:54

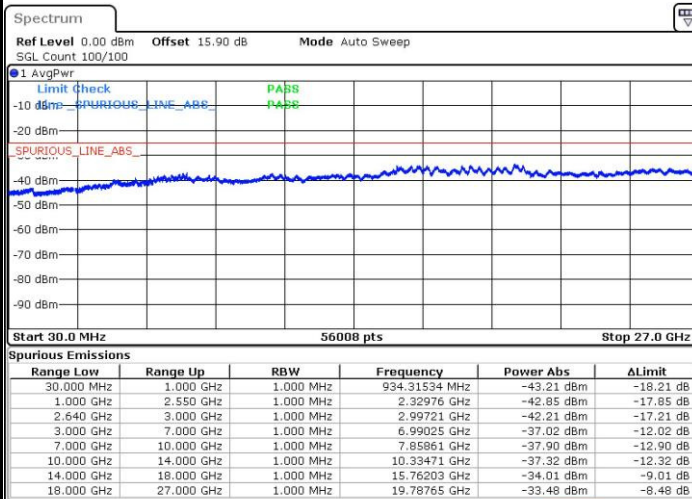
Highest Channel / 16QAM



Date: 11.JAN.2017 15:15:49

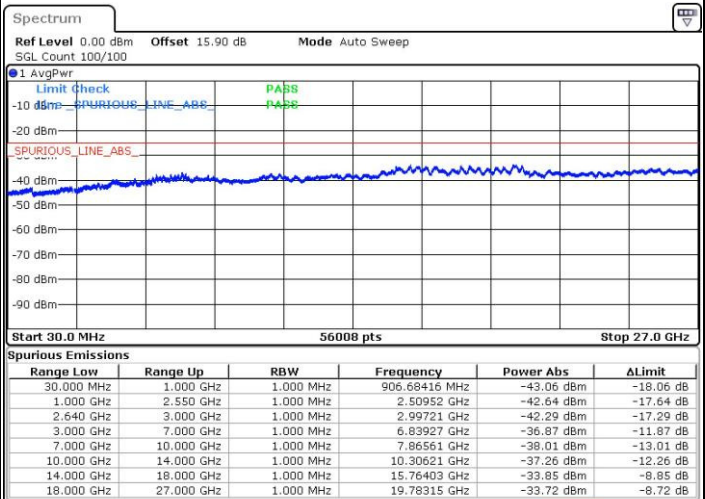
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 11.JAN.2017 15:16:44

Lowest Channel / 16QAM

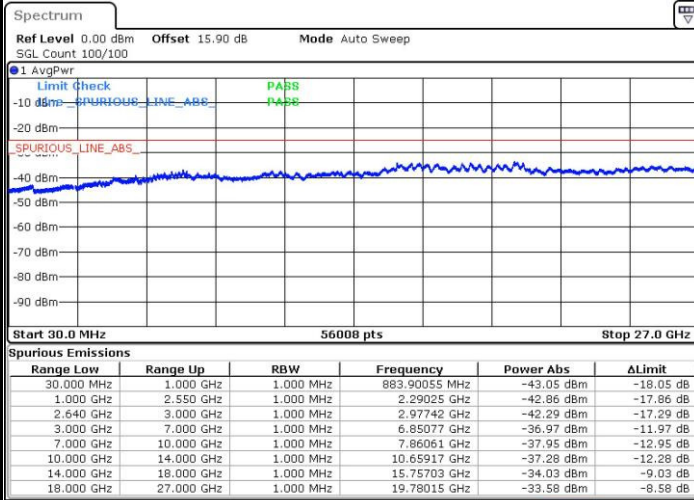


Date: 11.JAN.2017 15:17:38



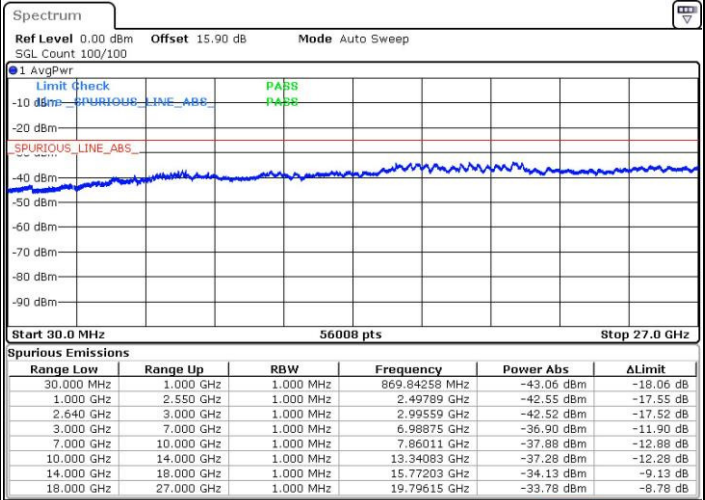
LTE Band 38 / 10MHz

Middle Channel / QPSK



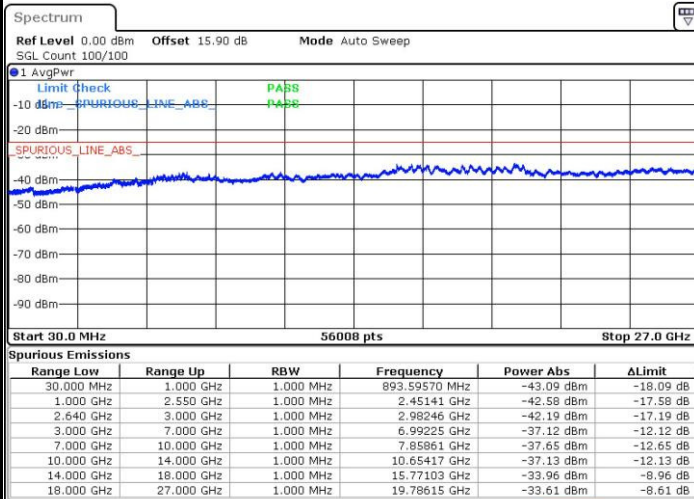
Date: 11.JAN.2017 15:18:33

Middle Channel / 16QAM



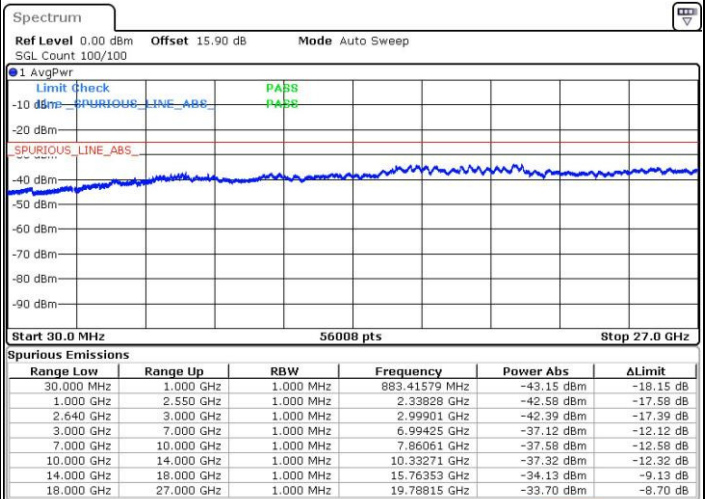
Date: 11.JAN.2017 15:19:28

Highest Channel / QPSK



Date: 11.JAN.2017 15:20:23

Highest Channel / 16QAM

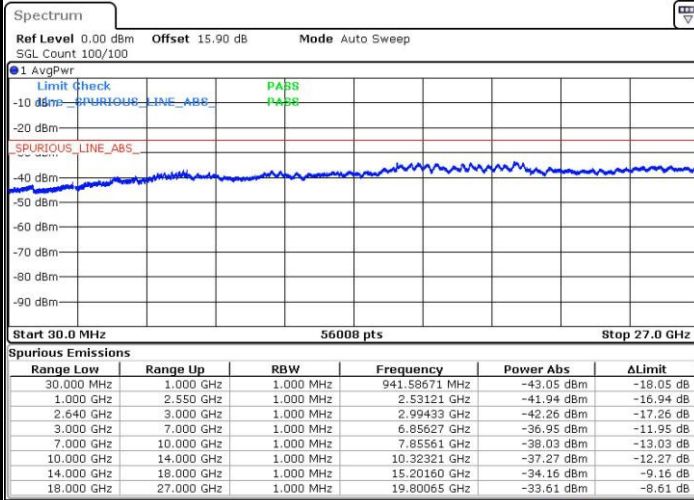


Date: 11.JAN.2017 15:21:18



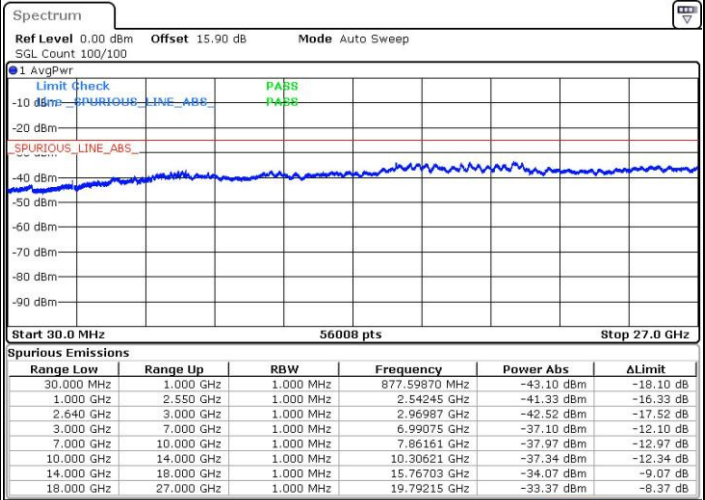
LTE Band 38 / 15MHz

Lowest Channel / QPSK



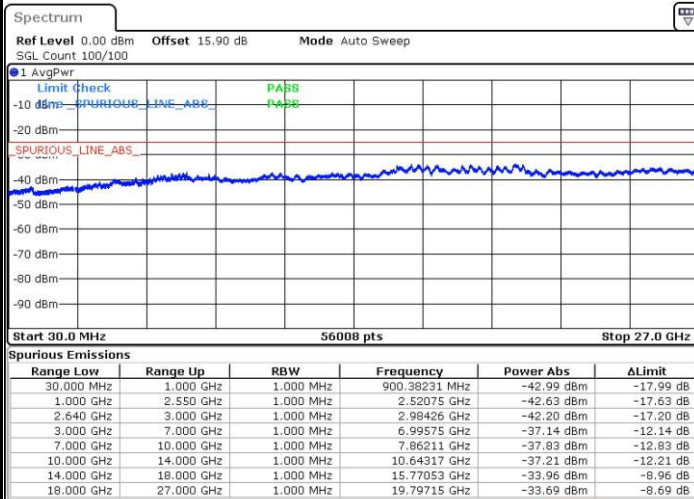
Date: 11.JAN.2017 15:22:13

Lowest Channel / 16QAM



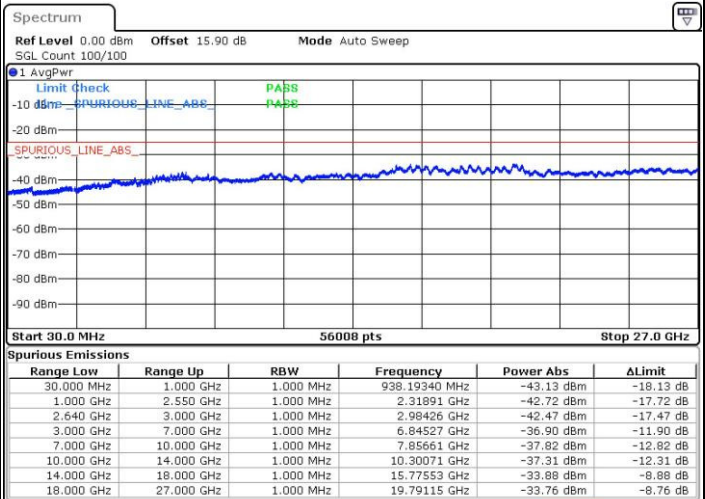
Date: 11.JAN.2017 15:23:07

Middle Channel / QPSK



Date: 11.JAN.2017 15:24:02

Middle Channel / 16QAM

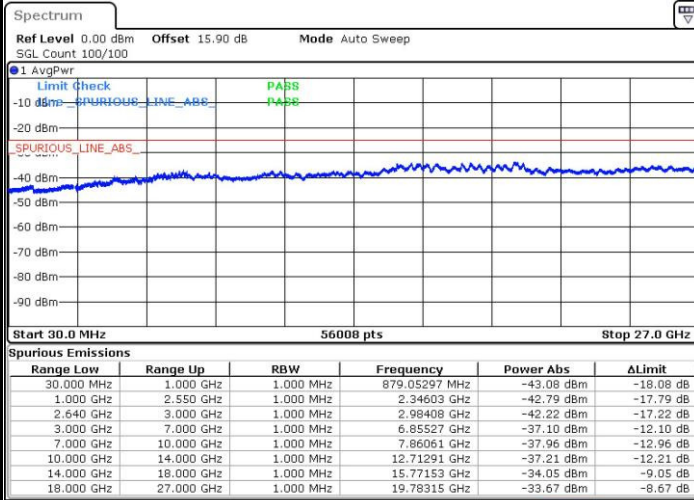


Date: 11.JAN.2017 15:24:57



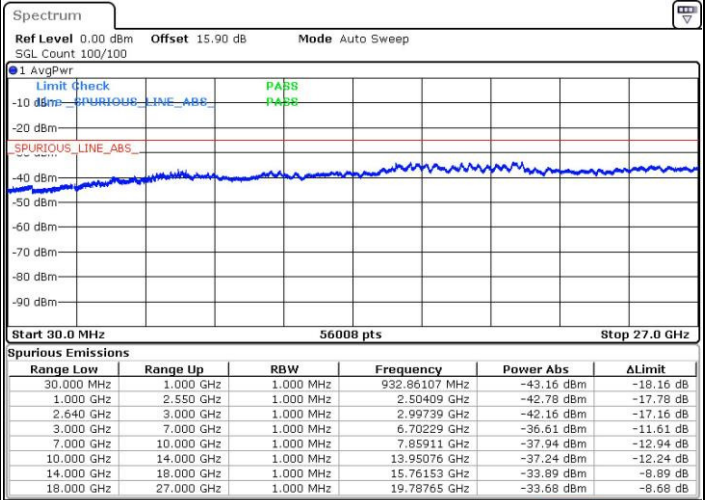
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 11.JAN.2017 15:25:51

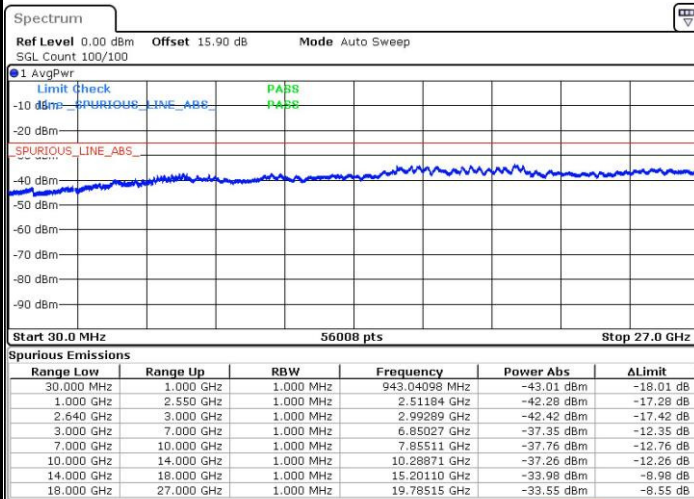
Highest Channel / 16QAM



Date: 11.JAN.2017 15:26:46

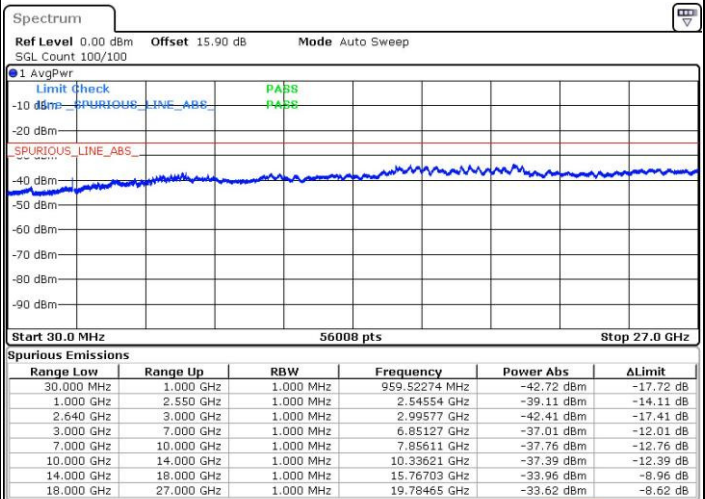
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 11.JAN.2017 15:27:41

Lowest Channel / 16QAM

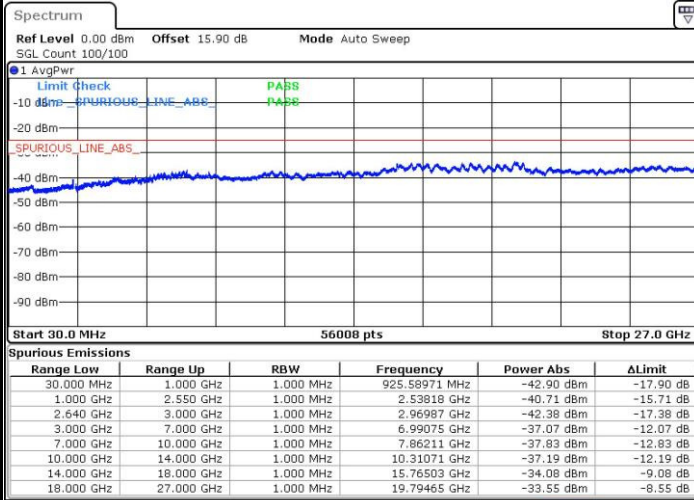


Date: 11.JAN.2017 15:28:36



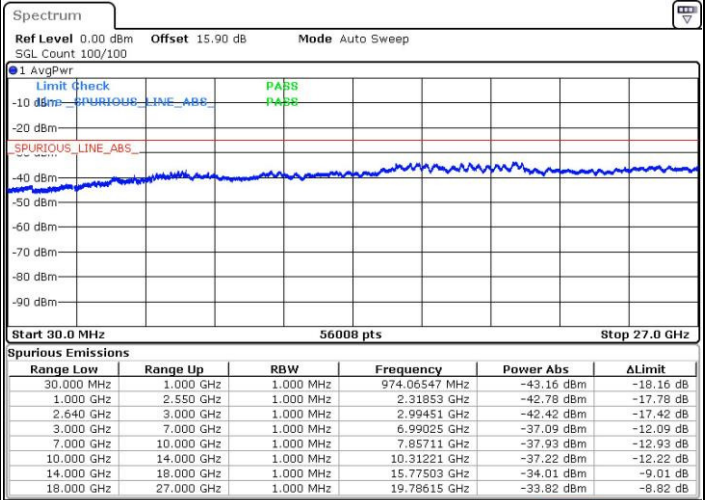
LTE Band 38 / 20MHz

Middle Channel / QPSK



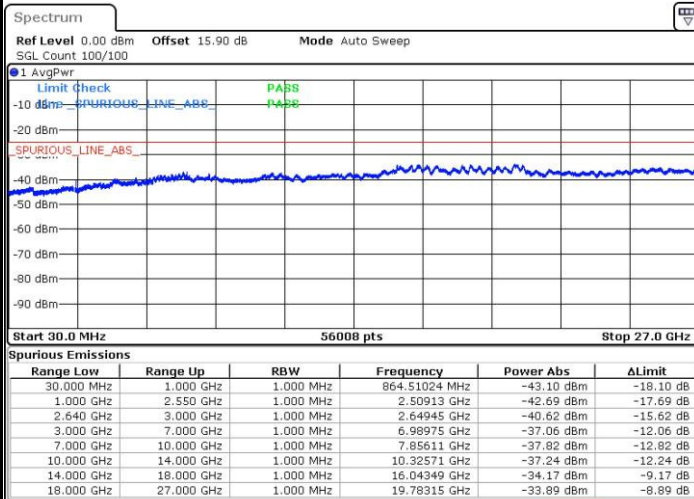
Date: 11.JAN.2017 15:29:30

Middle Channel / 16QAM



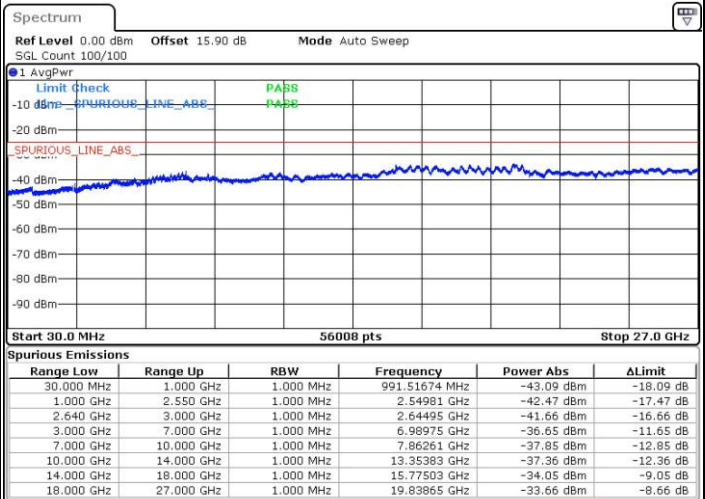
Date: 11.JAN.2017 15:30:25

Highest Channel / QPSK



Date: 11.JAN.2017 15:31:20

Highest Channel / 16QAM



Date: 11.JAN.2017 15:32:15

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	0.0001	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

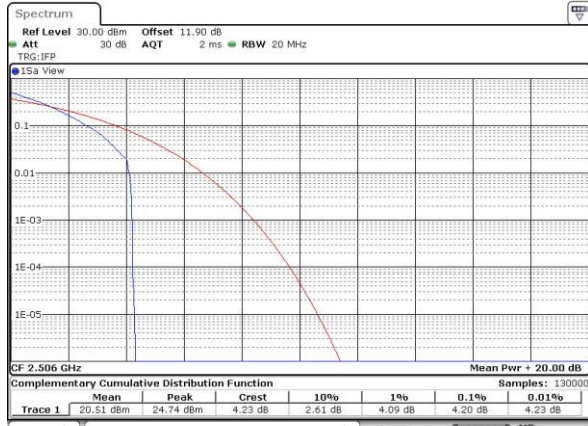
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.2	4.87	5.16	5.86	PASS
Middle CH	4.38	4.93	5.39	5.94	
Highest CH	3.68	4.7	3.22	5.01	

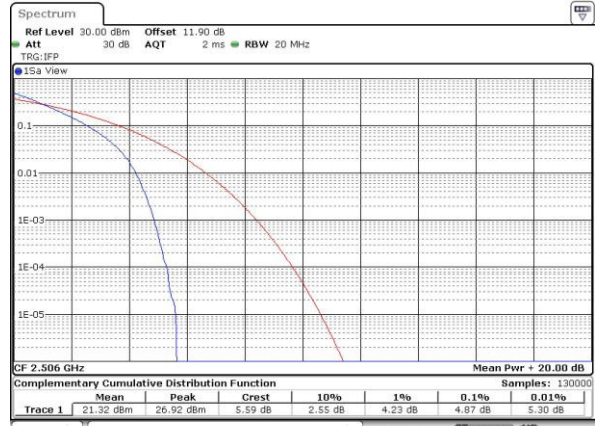


LTE Band 41 / 20MHz / QPSK

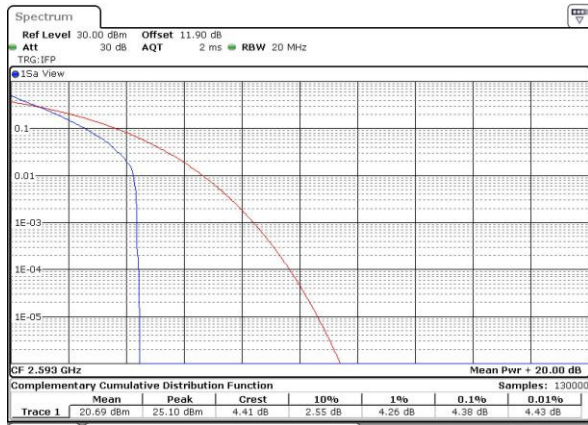
Lowest Channel / 1RB



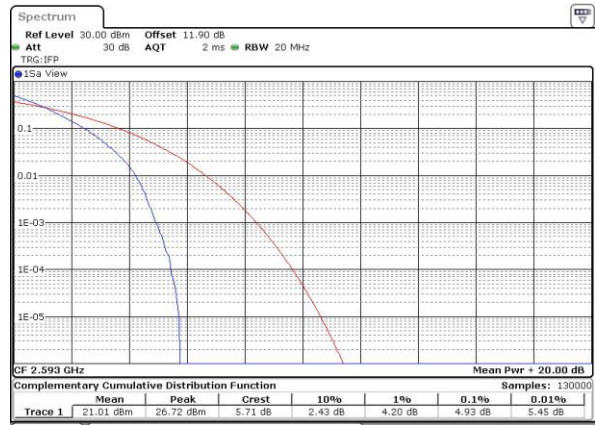
Lowest Channel / Full RB



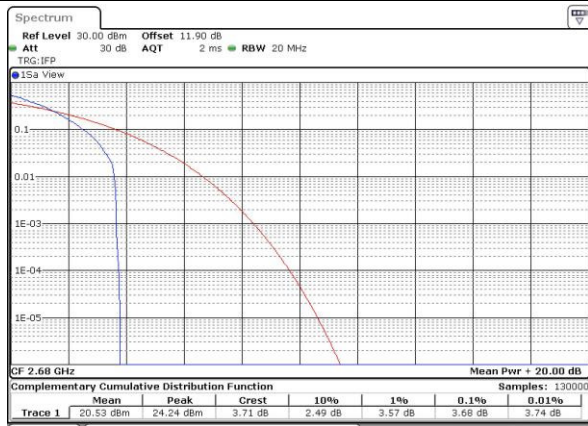
Middle Channel / 1RB



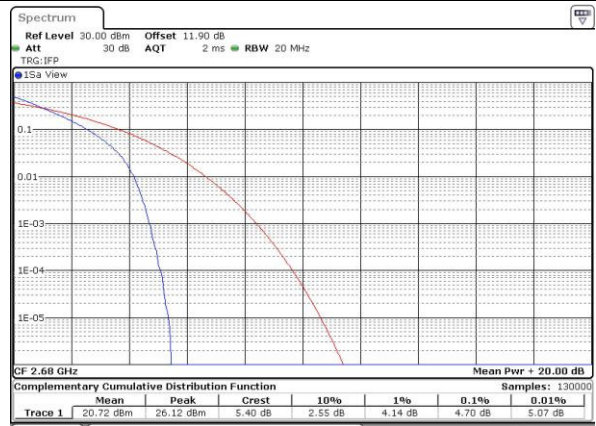
Middle Channel / Full RB



Highest Channel / 1RB



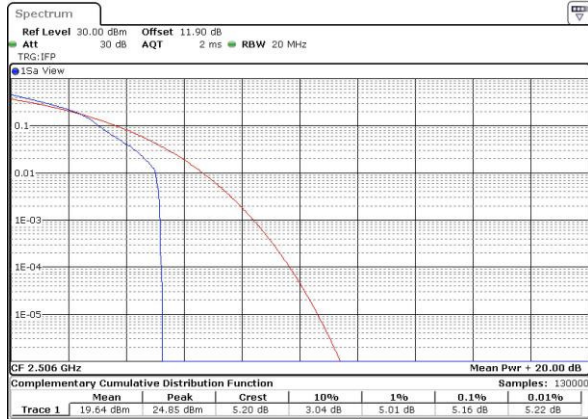
Highest Channel / Full RB



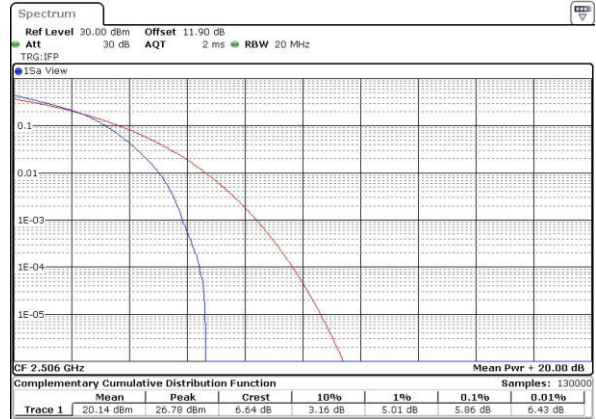


LTE Band 41 / 20MHz / 16QAM

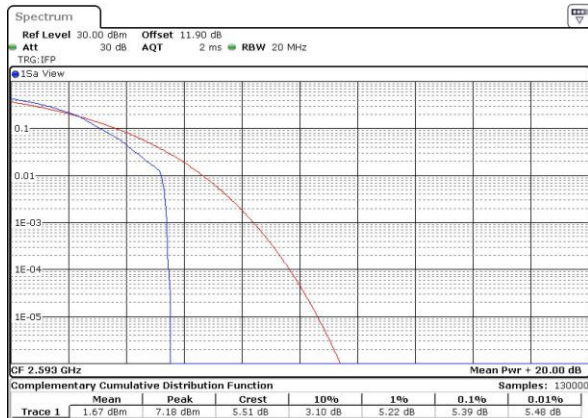
Lowest Channel / 1RB



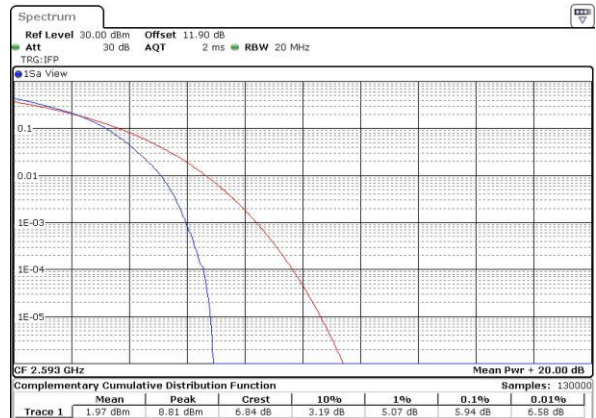
Lowest Channel / Full RB



Middle Channel / 1RB



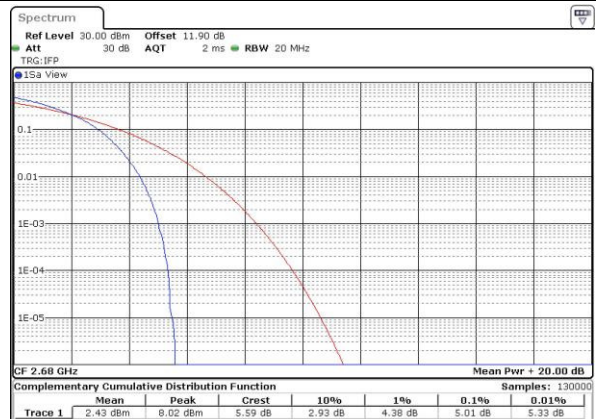
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



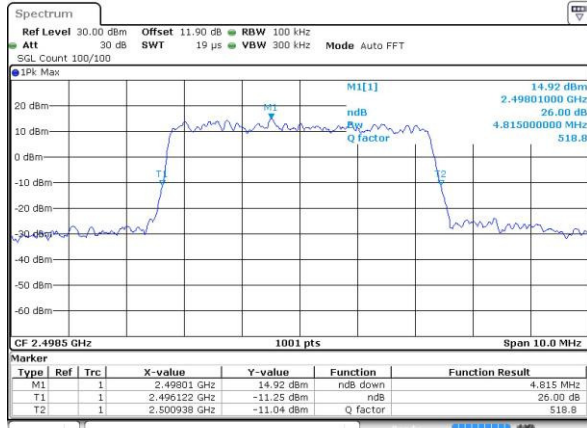
**26dB Bandwidth**

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	-	-	-	-	4.815	4.755	9.71	9.75	14.146	14.236	20.14	20.14
Middle CH	-	-	-	-	4.885	4.815	9.83	10.13	14.176	14.086	20.3	20.1
Highest CH	-	-	-	-	4.965	4.785	9.63	9.65	14.326	14.236	20.14	20.18

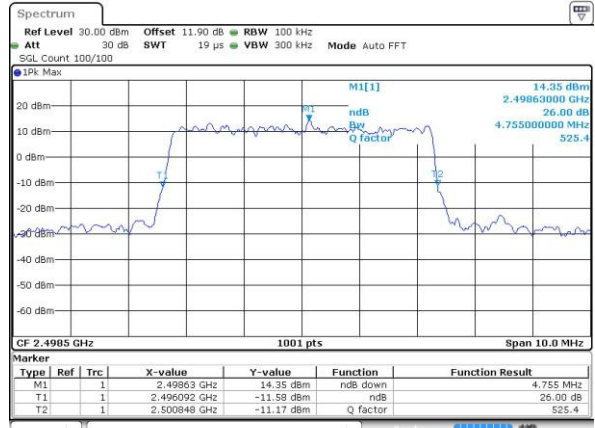


LTE Band 41

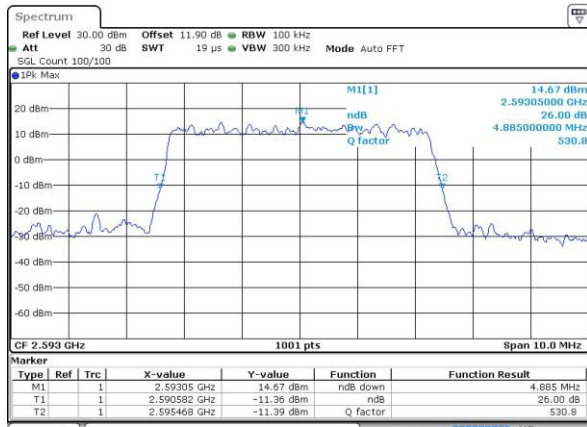
Lowest Channel / 5MHz / QPSK



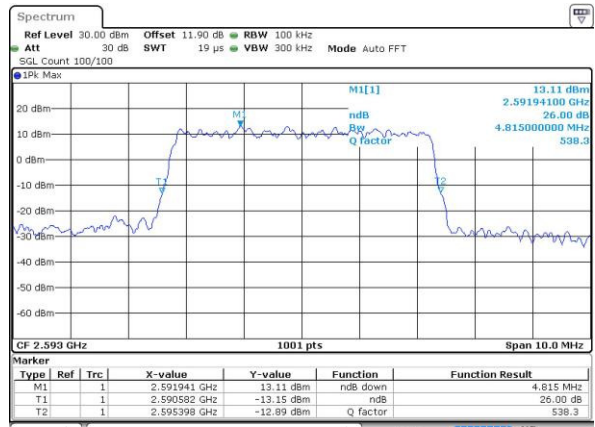
Lowest Channel / 5MHz / 16QAM



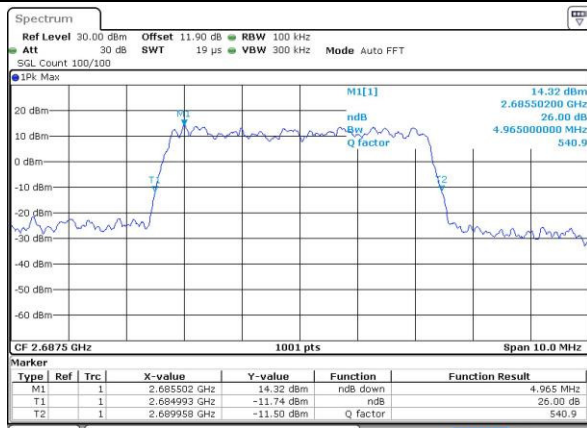
Middle Channel / 5MHz / QPSK



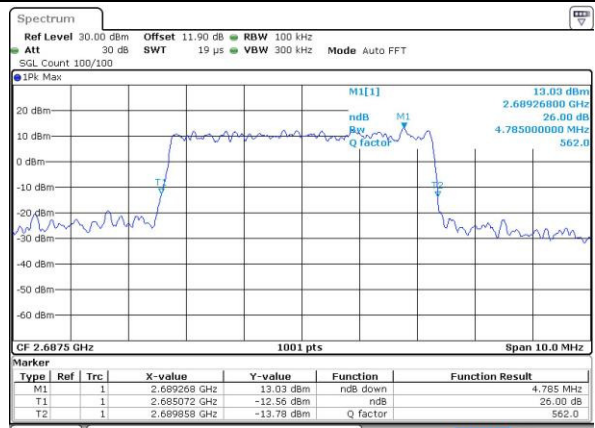
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



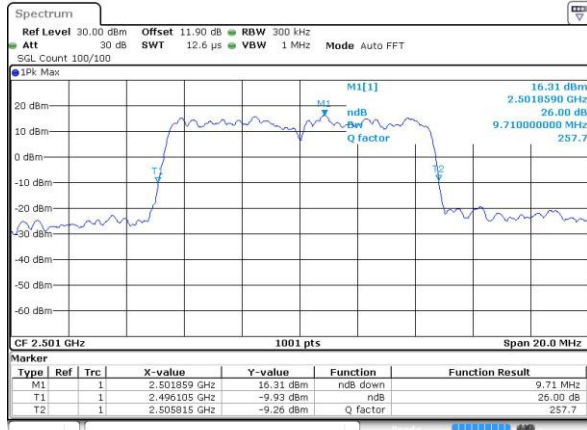
Highest Channel / 5MHz / 16QAM





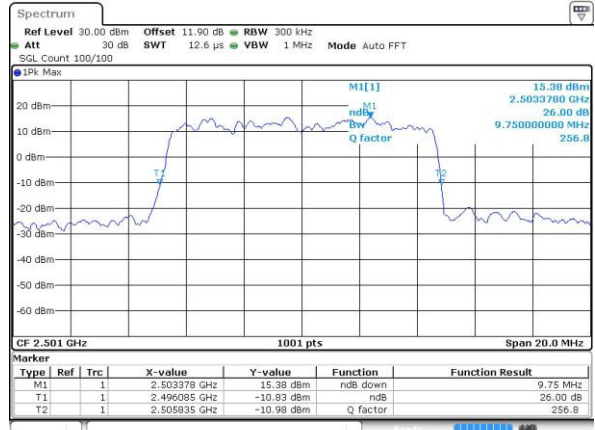
LTE Band 41

Lowest Channel / 10MHz / QPSK



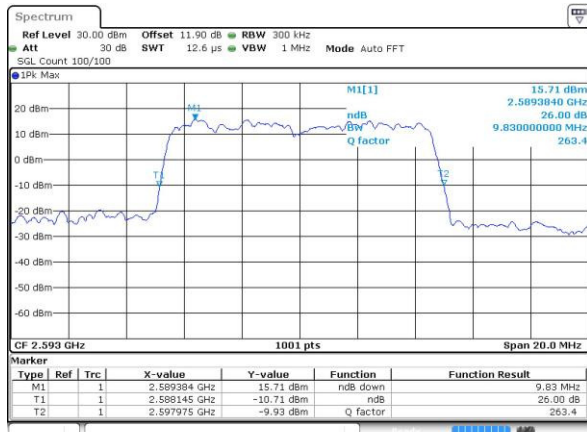
Date: 11 JAN 2017 18:51:57

Lowest Channel / 10MHz / 16QAM



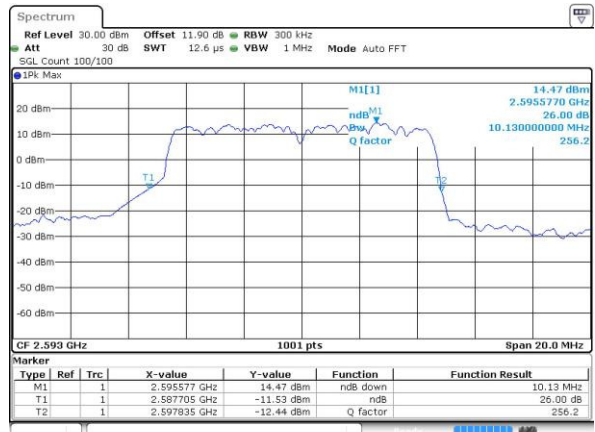
Date: 11 JAN 2017 18:52:07

Middle Channel / 10MHz / QPSK



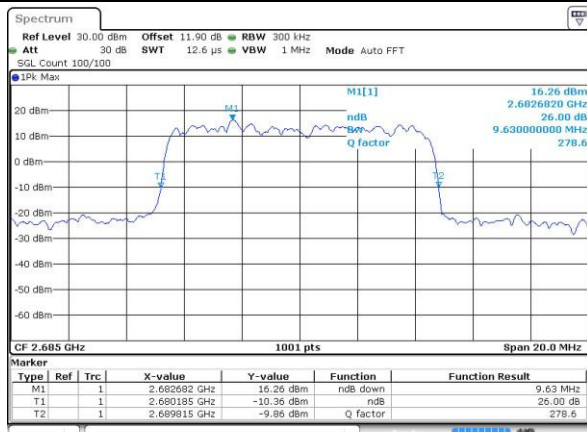
Date: 11 JAN 2017 18:52:38

Middle Channel / 10MHz / 16QAM



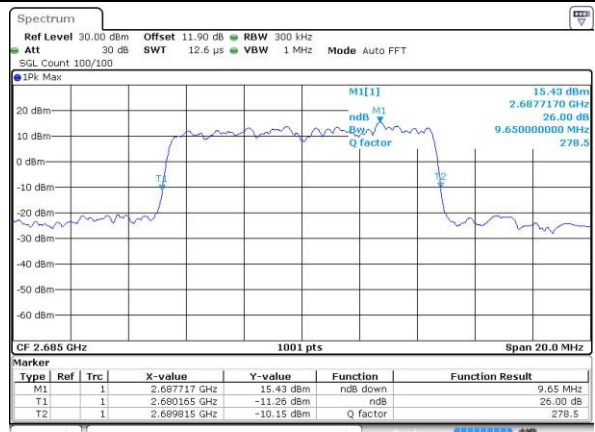
Date: 11 JAN 2017 18:52:48

Highest Channel / 10MHz / QPSK



Date: 11 JAN 2017 18:53:19

Highest Channel / 10MHz / 16QAM

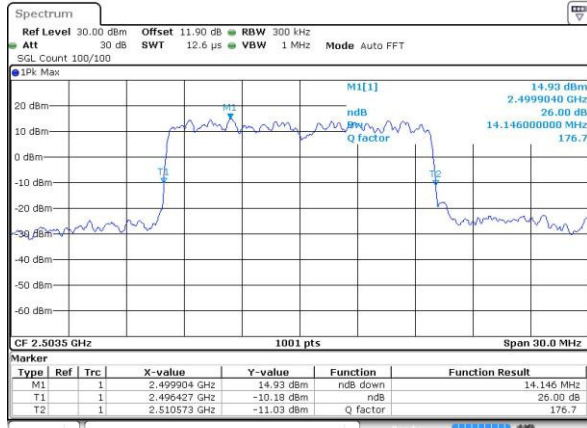


Date: 11 JAN 2017 18:53:30



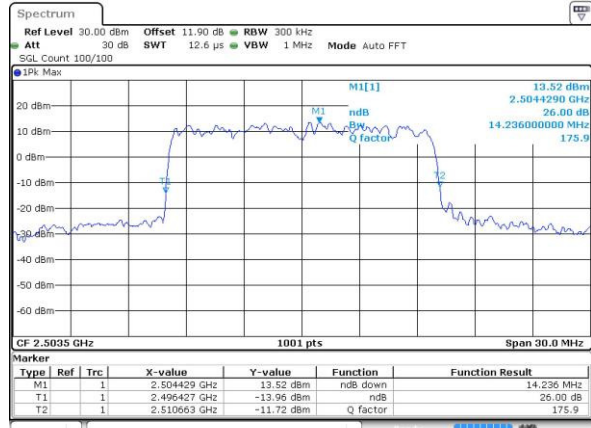
LTE Band 41

Lowest Channel / 15MHz / QPSK



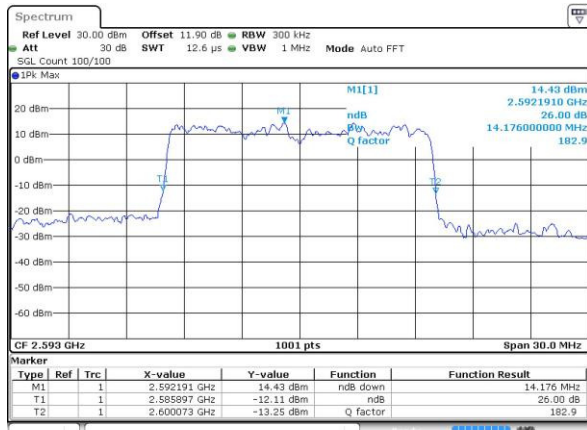
Date: 11 JAN 2017 18:54:01

Lowest Channel / 15MHz / 16QAM



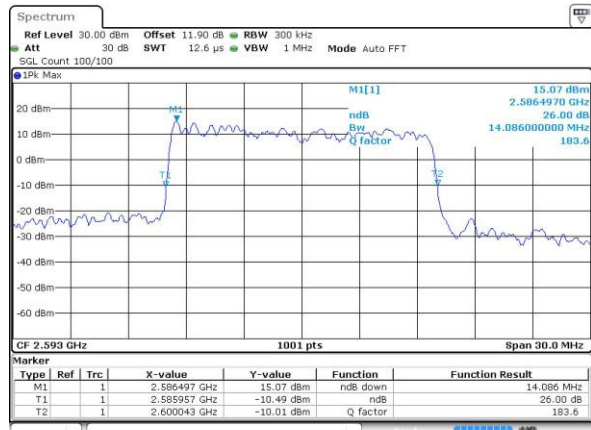
Date: 11 JAN 2017 18:54:11

Middle Channel / 15MHz / QPSK



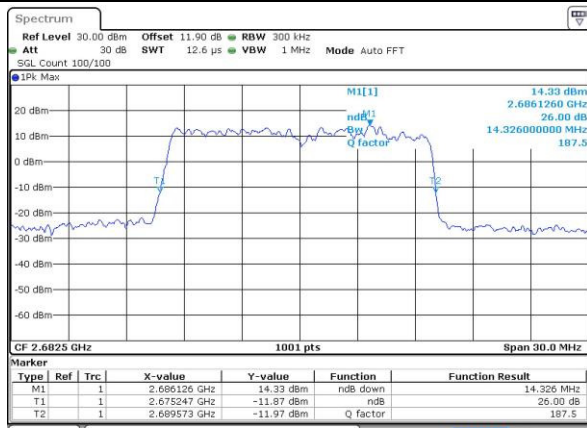
Date: 11 JAN 2017 18:54:42

Middle Channel / 15MHz / 16QAM



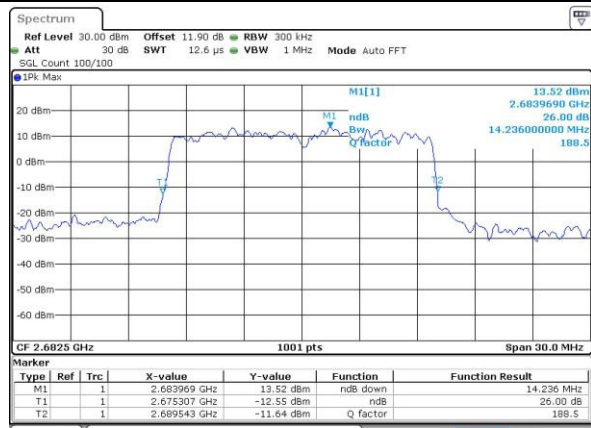
Date: 11 JAN 2017 18:54:53

Highest Channel / 15MHz / QPSK



Date: 11 JAN 2017 18:55:24

Highest Channel / 15MHz / 16QAM

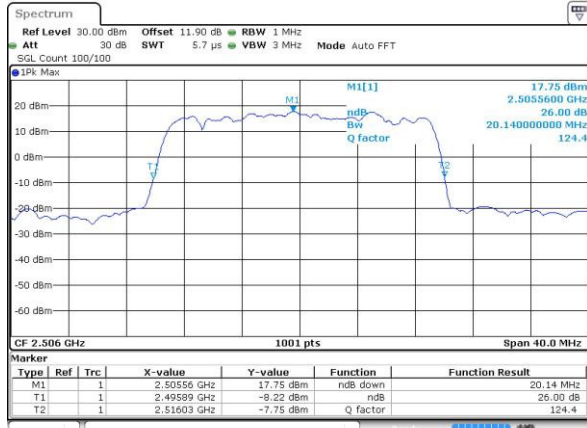


Date: 11 JAN 2017 18:55:34



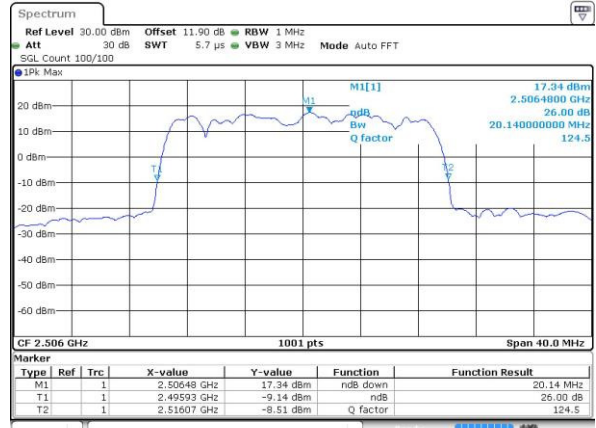
LTE Band 41

Lowest Channel / 20MHz / QPSK



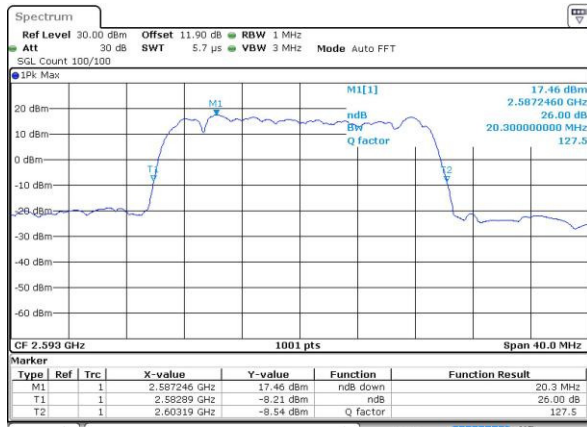
Date: 11 JAN 2017 18:56:05

Lowest Channel / 20MHz / 16QAM



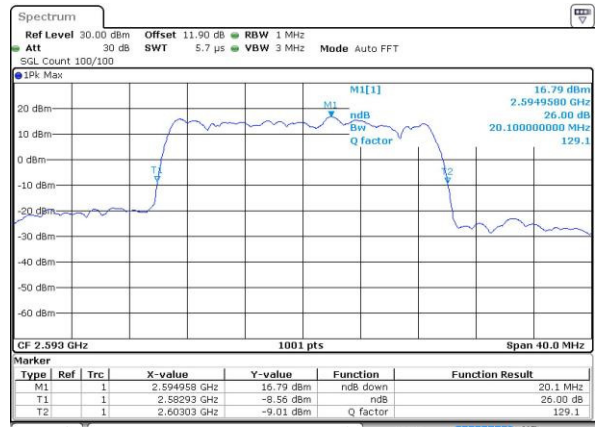
Date: 11 JAN 2017 18:56:16

Middle Channel / 20MHz / QPSK



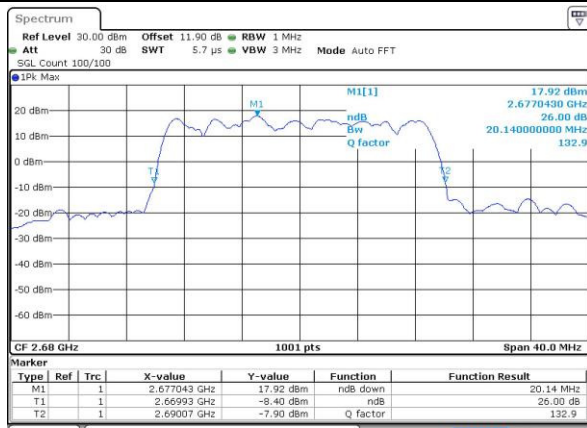
Date: 11 JAN 2017 18:56:47

Middle Channel / 20MHz / 16QAM



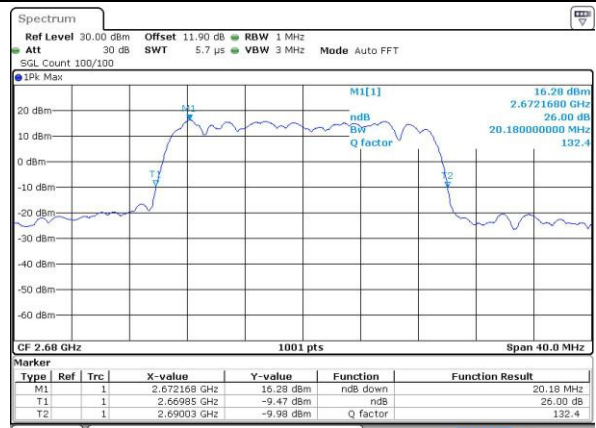
Date: 11 JAN 2017 18:56:57

Highest Channel / 20MHz / QPSK



Date: 11 JAN 2017 18:57:28

Highest Channel / 20MHz / 16QAM



Date: 11 JAN 2017 18:57:39

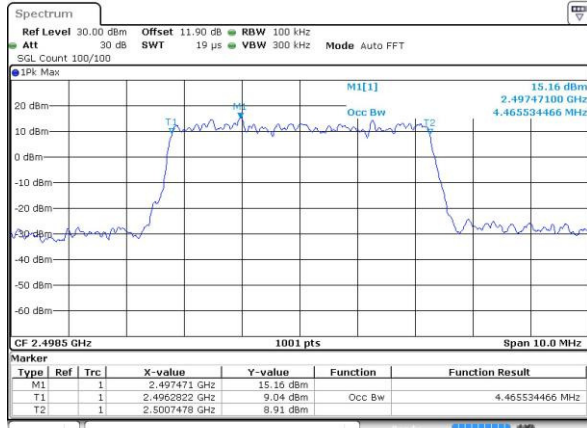
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.51	9.01	9.03	13.46	13.4	18.26	18.34
Middle CH	-	-	-	-	4.51	4.48	9.01	9.09	13.43	13.43	18.42	18.38
Highest CH	-	-	-	-	4.5	4.5	9.01	9.05	13.43	13.4	18.38	18.34



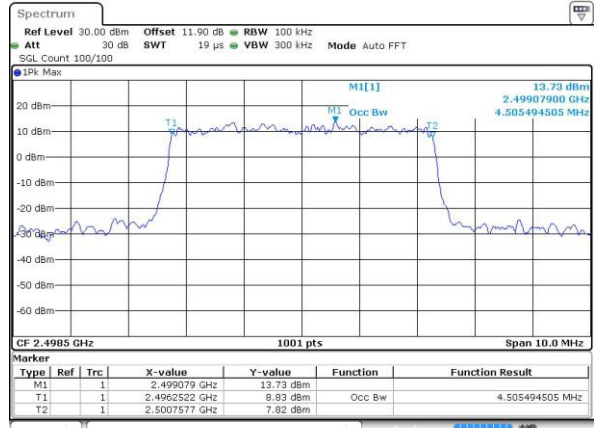
LTE Band 41

Lowest Channel / 5MHz / QPSK



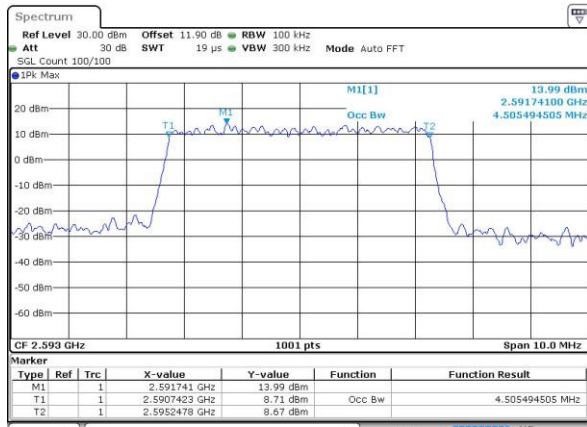
Date: 11 JAN 2017 18:49:31

Lowest Channel / 5MHz / 16QAM



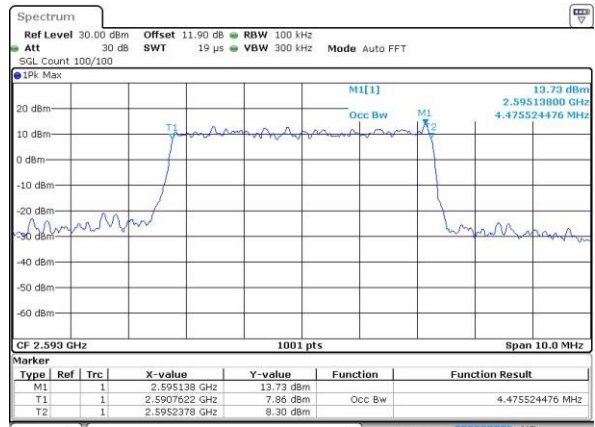
Date: 11 JAN 2017 18:49:42

Middle Channel / 5MHz / QPSK



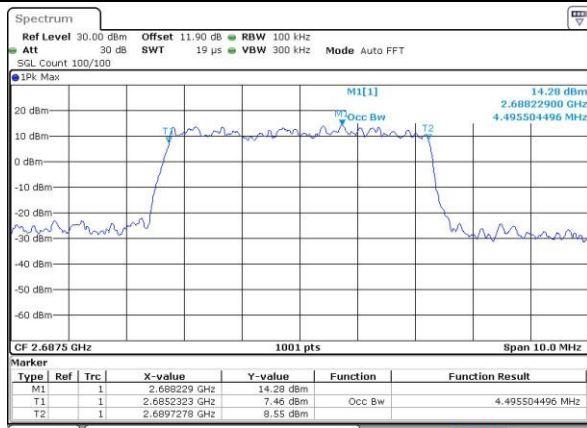
Date: 11 JAN 2017 18:50:13

Middle Channel / 5MHz / 16QAM



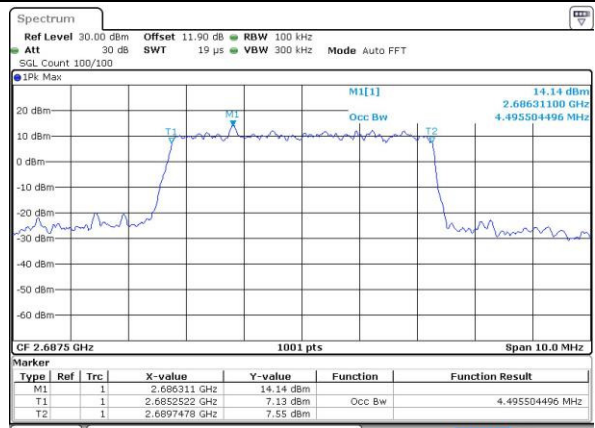
Date: 11 JAN 2017 18:50:23

Highest Channel / 5MHz / QPSK



Date: 11 JAN 2017 18:50:54

Highest Channel / 5MHz / 16QAM



Date: 11 JAN 2017 18:51:05