



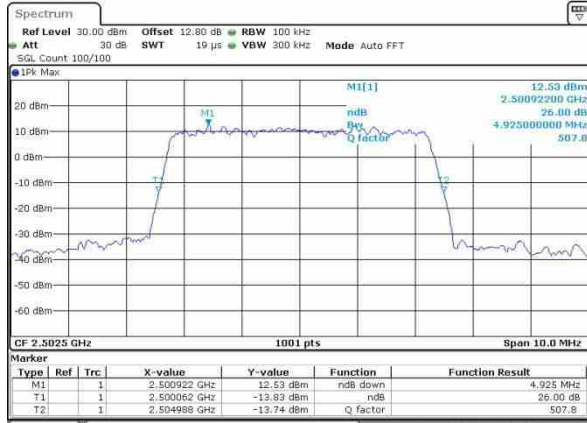
26dB Bandwidth

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	-	-	-	-	4.93	4.83	9.79	9.79	14.27	14.51	20.06	20.18
Middle CH	-	-	-	-	4.8	4.89	9.71	9.77	14.33	14.6	20.14	20.14
Highest CH	-	-	-	-	4.82	4.89	9.77	9.69	14.48	14.36	20.3	20.42

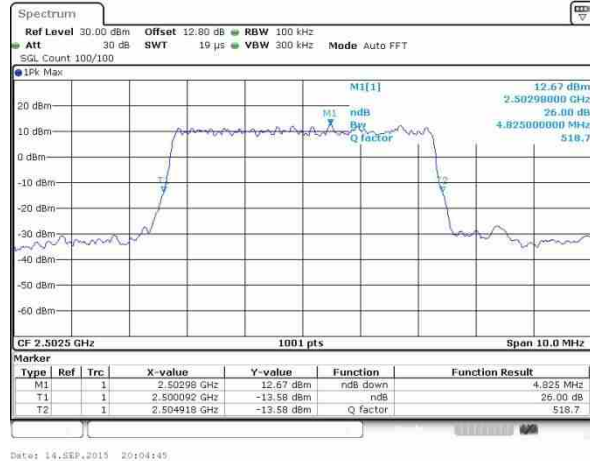


LTE Band 7

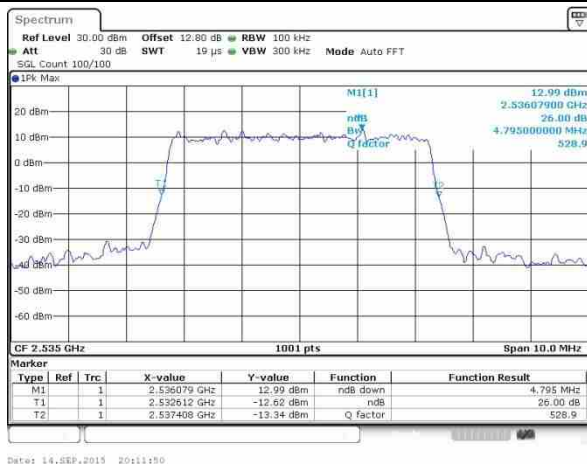
Lowest Channel / 5MHz / QPSK



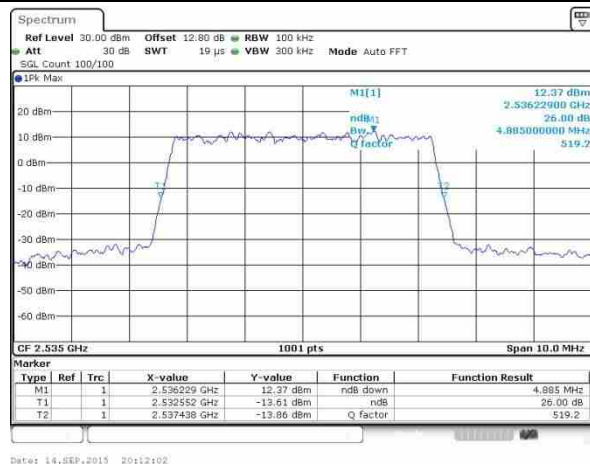
Lowest Channel / 5MHz / 16QAM



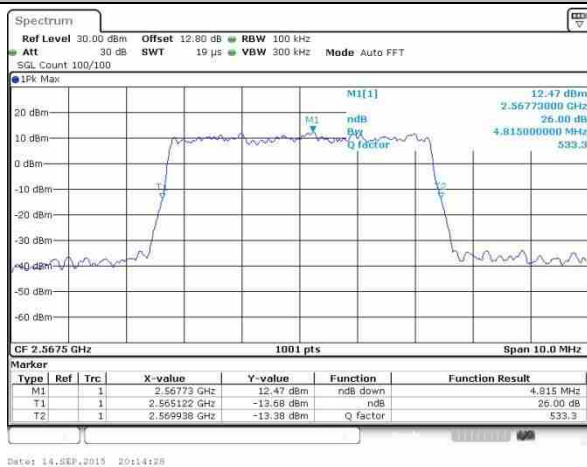
Middle Channel / 5MHz / QPSK



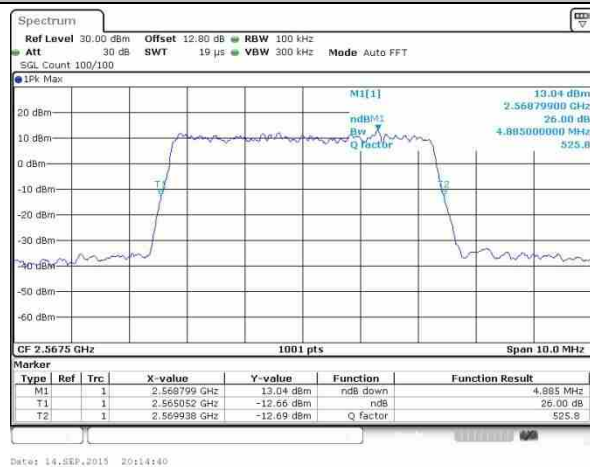
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



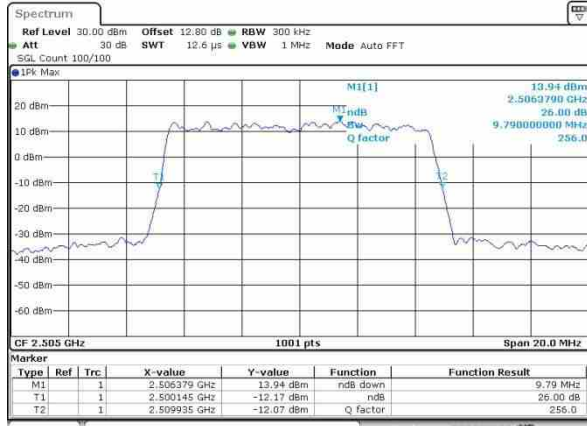
Highest Channel / 5MHz / 16QAM





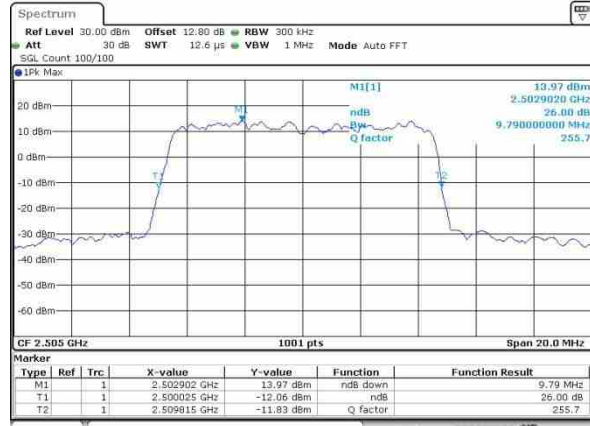
LTE Band 7

Lowest Channel / 10MHz / QPSK



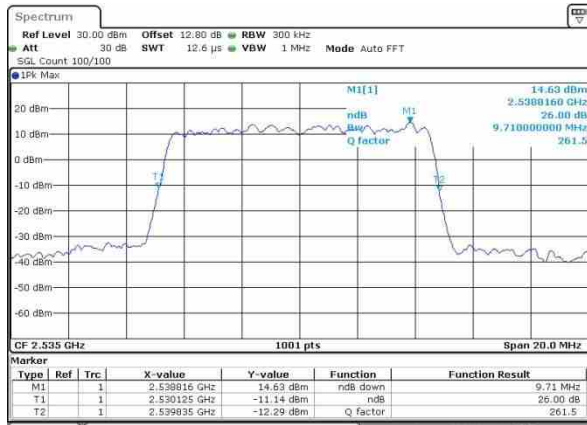
Date: 14.SEP.2015 20:21:45

Lowest Channel / 10MHz / 16QAM



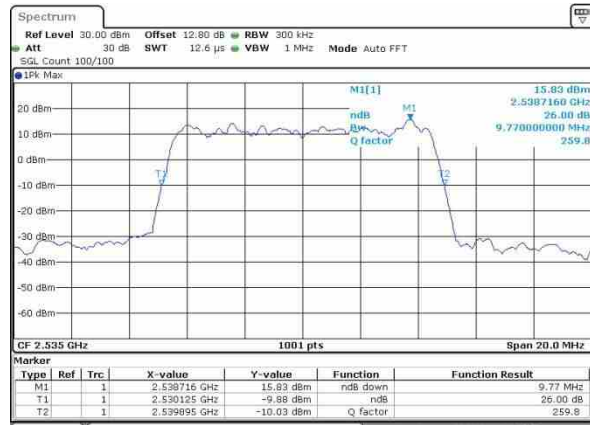
Date: 14.SEP.2015 20:21:57

Middle Channel / 10MHz / QPSK



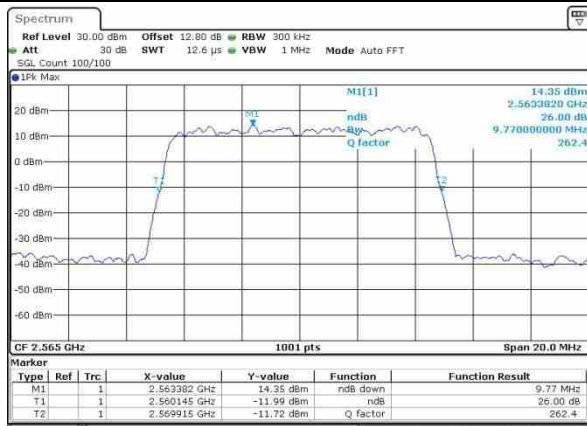
Date: 14.SEP.2015 20:25:02

Middle Channel / 10MHz / 16QAM



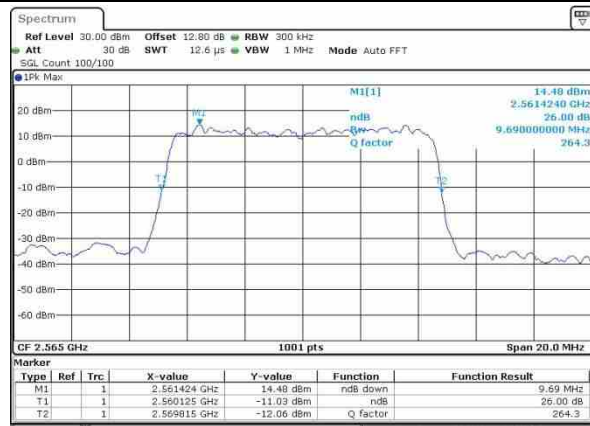
Date: 14.SEP.2015 20:25:14

Highest Channel / 10MHz / QPSK



Date: 14.SEP.2015 20:31:40

Highest Channel / 10MHz / 16QAM

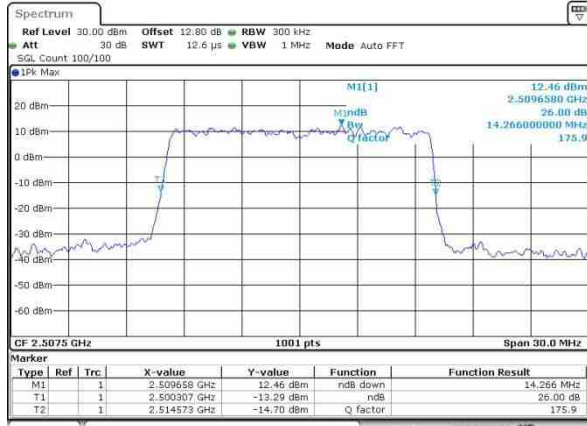


Date: 14.SEP.2015 20:31:51

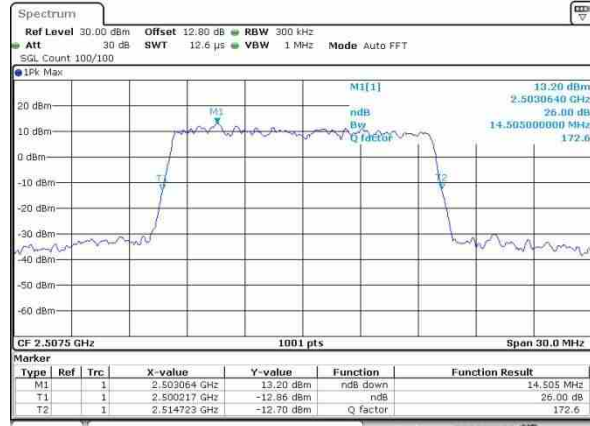


LTE Band 7

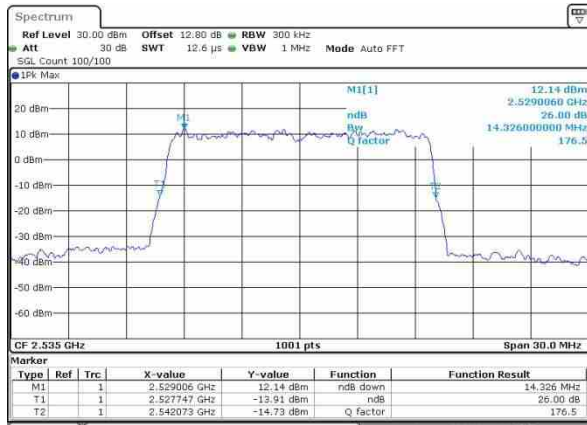
Lowest Channel / 15MHz / QPSK



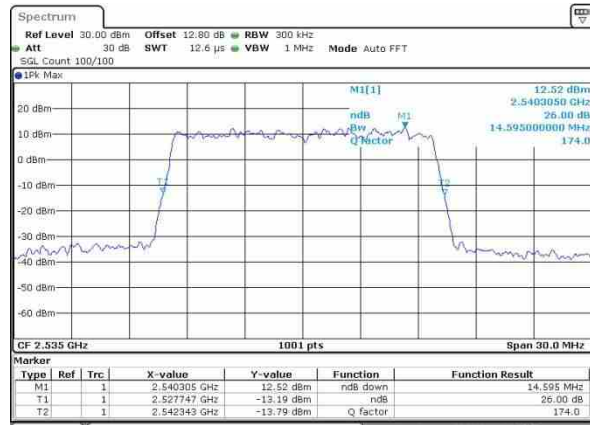
Lowest Channel / 15MHz / 16QAM



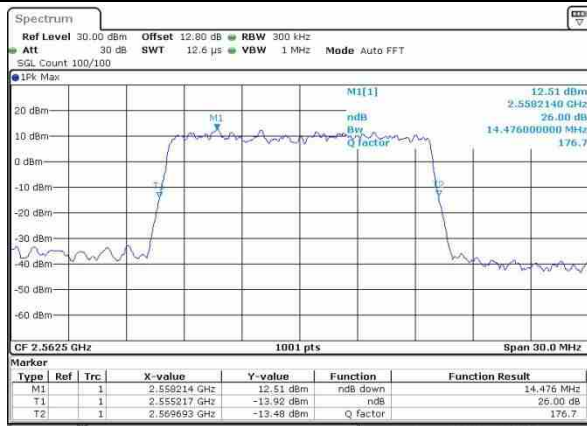
Middle Channel / 15MHz / QPSK



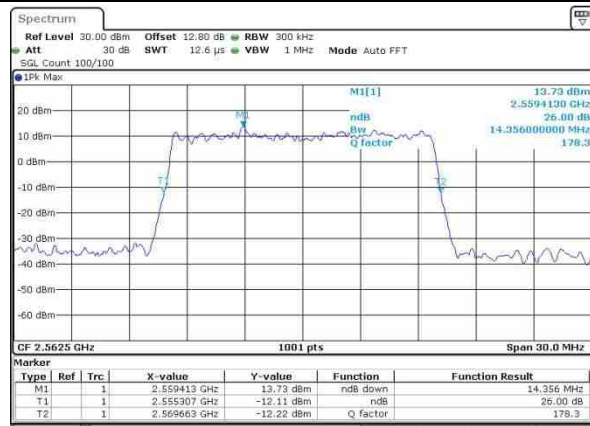
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



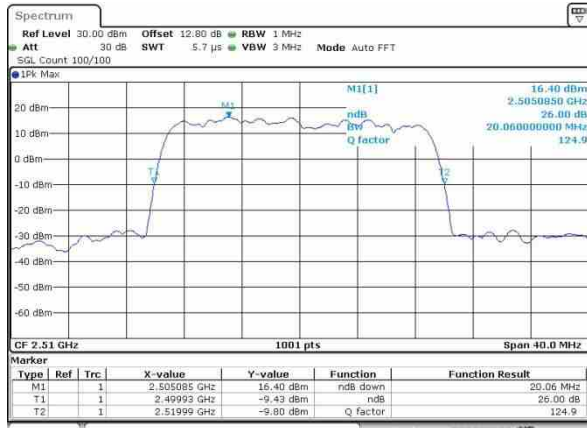
Highest Channel / 15MHz / 16QAM





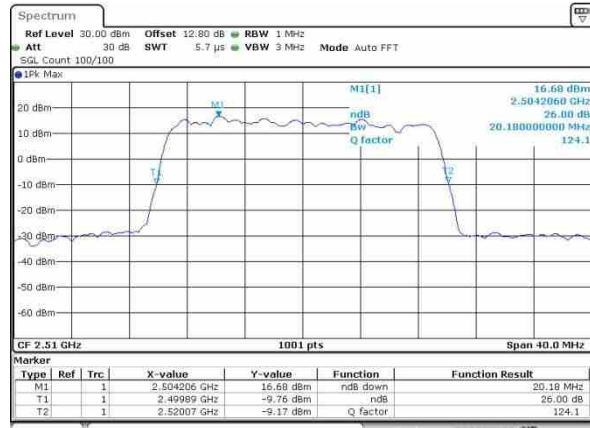
LTE Band 7

Lowest Channel / 20MHz / QPSK



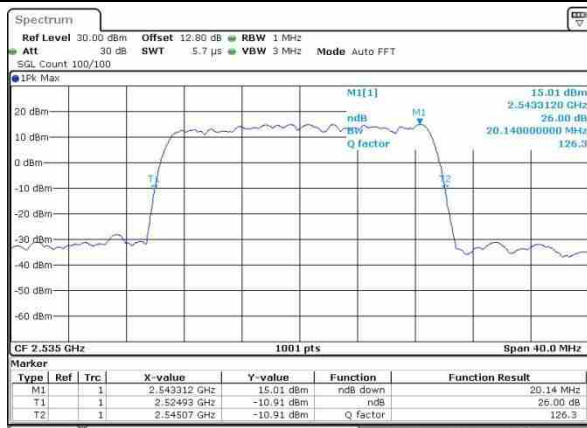
Date: 14.SEP.2015 20:56:09

Lowest Channel / 20MHz / 16QAM



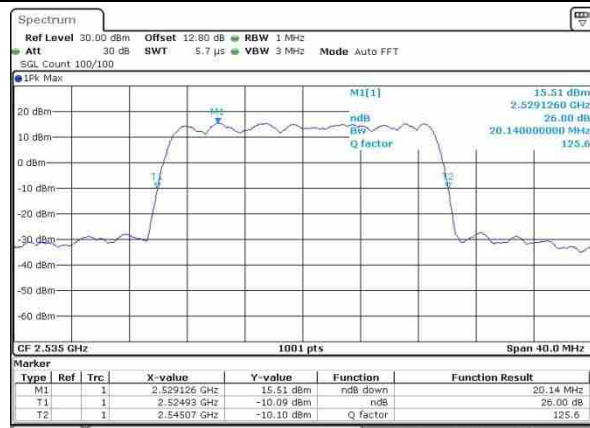
Date: 14.SEP.2015 20:56:21

Middle Channel / 20MHz / QPSK



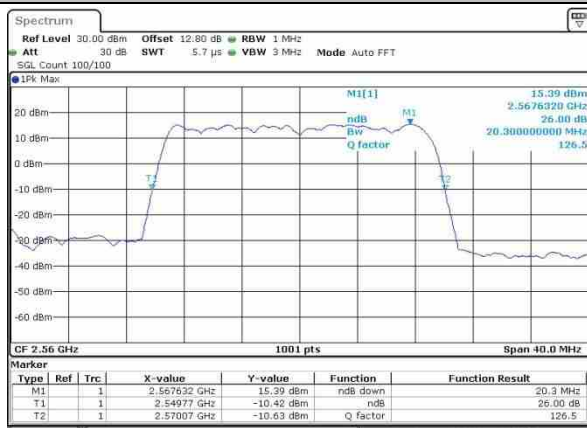
Date: 14.SEP.2015 21:03:27

Middle Channel / 20MHz / 16QAM



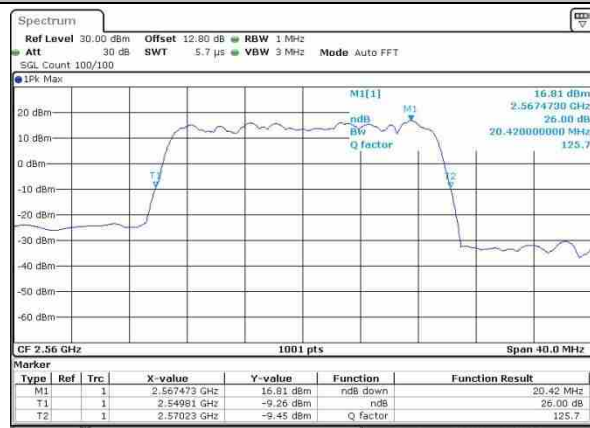
Date: 14.SEP.2015 21:03:38

Highest Channel / 20MHz / QPSK



Date: 14.SEP.2015 21:06:04

Highest Channel / 20MHz / 16QAM



Date: 14.SEP.2015 21:06:16



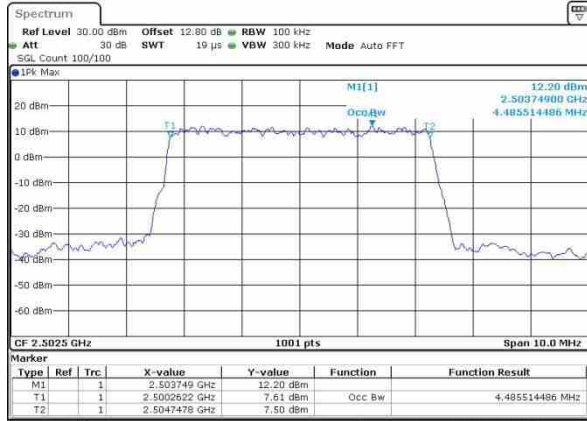
Occupied Bandwidth

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	-	-	-	-	4.49	4.49	9.03	9.03	13.55	13.49	18.38	18.34
Middle CH	-	-	-	-	4.48	4.47	9.03	9.01	13.49	13.43	18.38	18.3
Highest CH	-	-	-	-	4.49	4.5	9.01	8.97	13.43	13.49	18.42	18.58



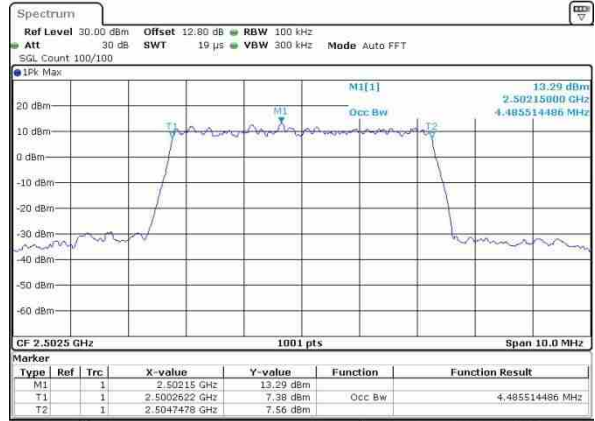
LTE Band 7

Lowest Channel / 5MHz / QPSK



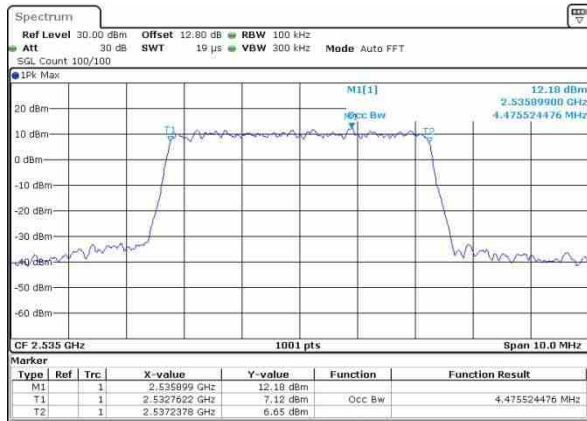
Date: 14.SEP.2015 20:04:08

Lowest Channel / 5MHz / 16QAM



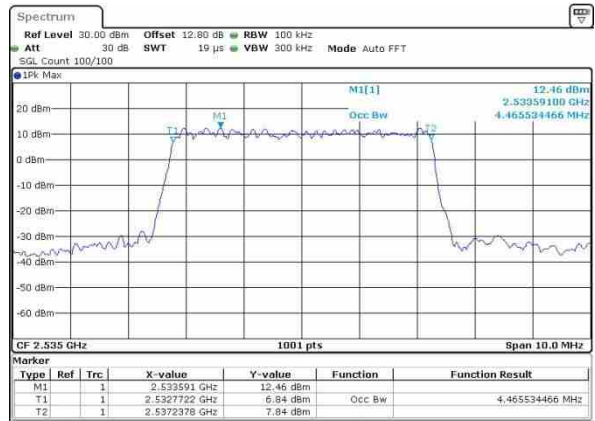
Date: 14.SEP.2015 20:04:22

Middle Channel / 5MHz / QPSK



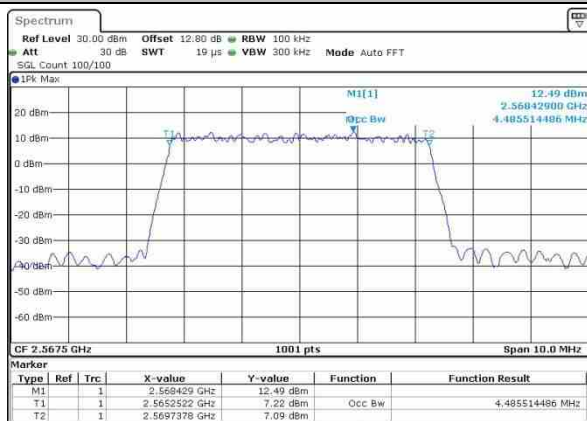
Date: 14.SEP.2015 20:11:27

Middle Channel / 5MHz / 16QAM



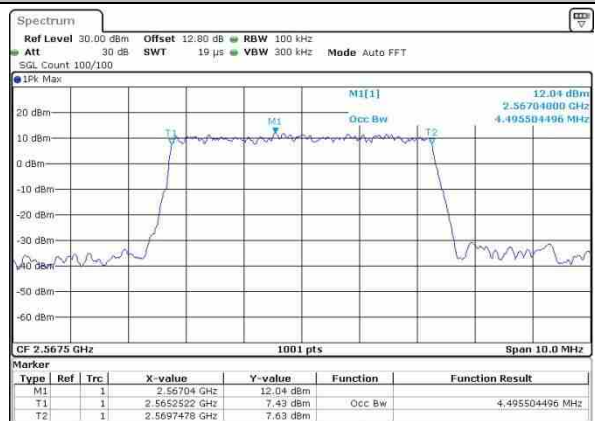
Date: 14.SEP.2015 20:11:39

Highest Channel / 5MHz / QPSK



Date: 14.SEP.2015 20:14:09

Highest Channel / 5MHz / 16QAM

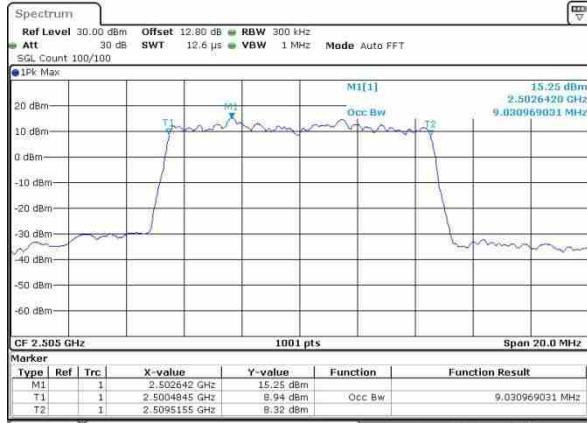


Date: 14.SEP.2015 20:14:16

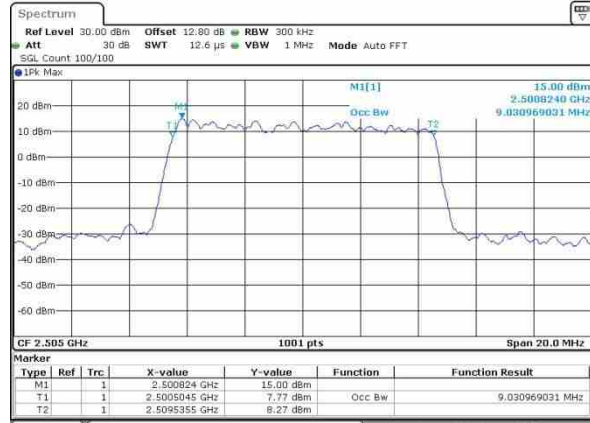


LTE Band 7

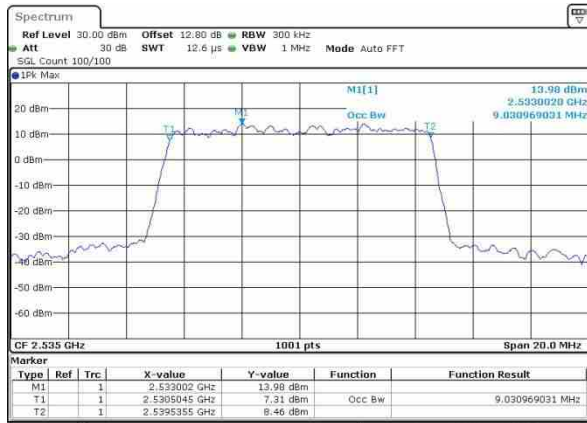
Lowest Channel / 10MHz / QPSK



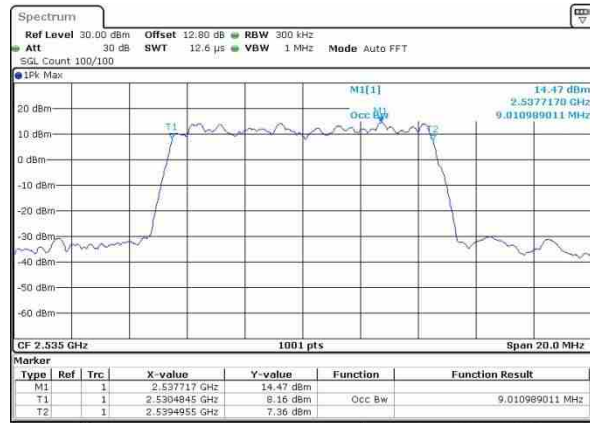
Lowest Channel / 10MHz / 16QAM



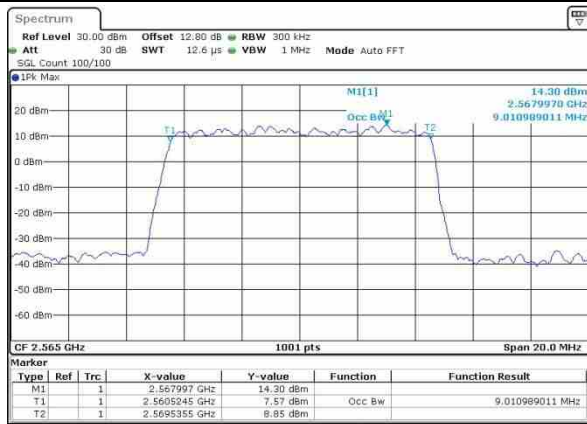
Middle Channel / 10MHz / QPSK



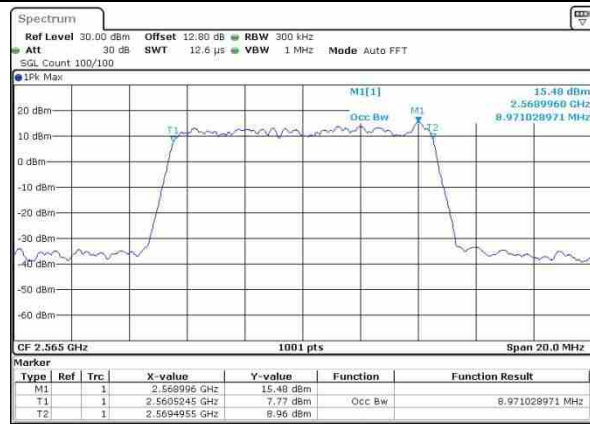
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



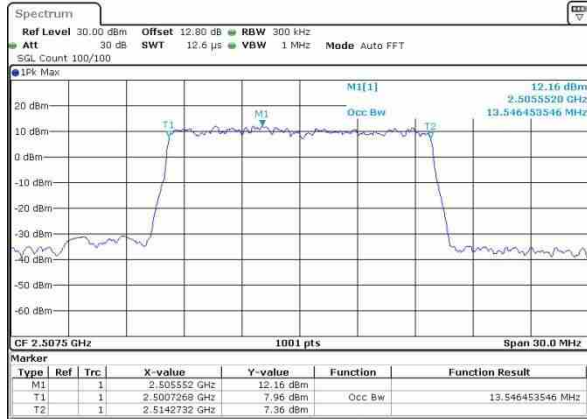
Highest Channel / 10MHz / 16QAM



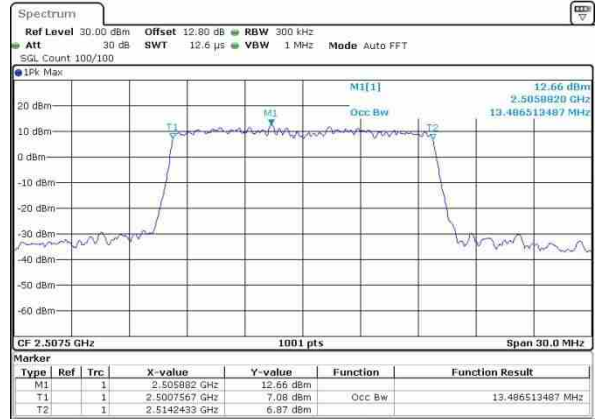


LTE Band 7

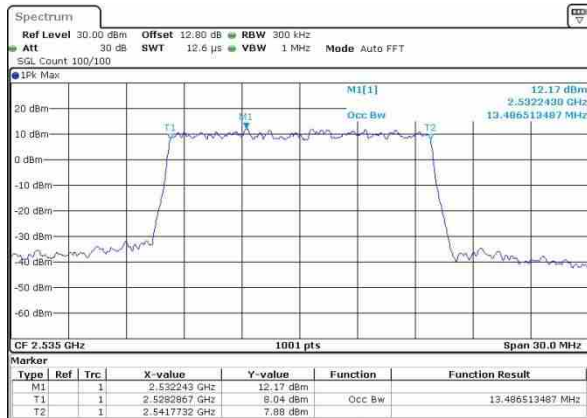
Lowest Channel / 15MHz / QPSK



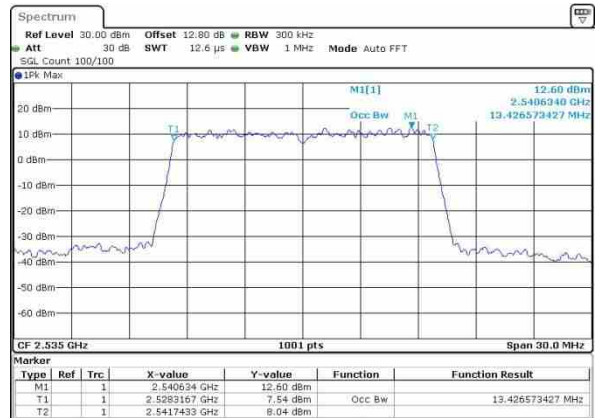
Lowest Channel / 15MHz / 16QAM



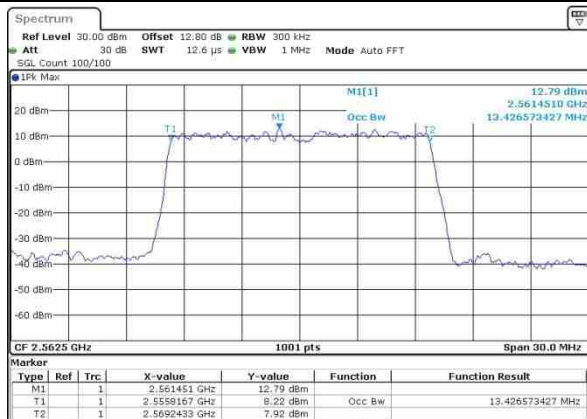
Middle Channel / 15MHz / QPSK



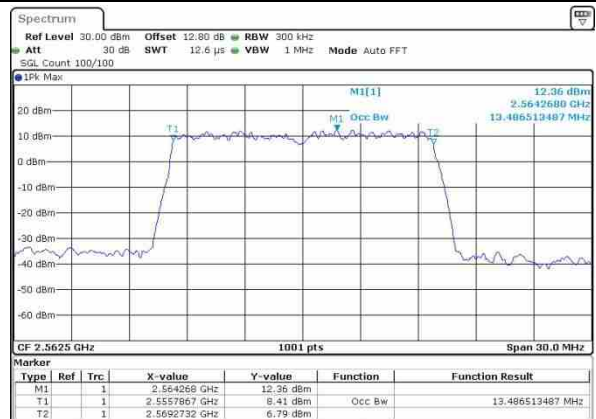
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



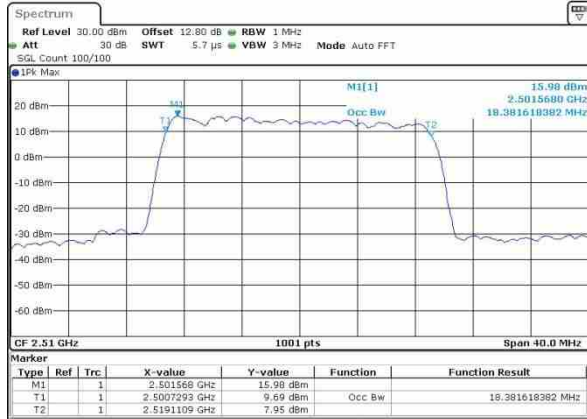
Highest Channel / 15MHz / 16QAM



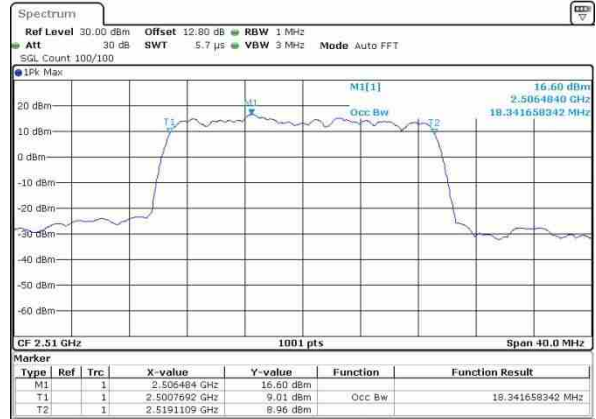


LTE Band 7

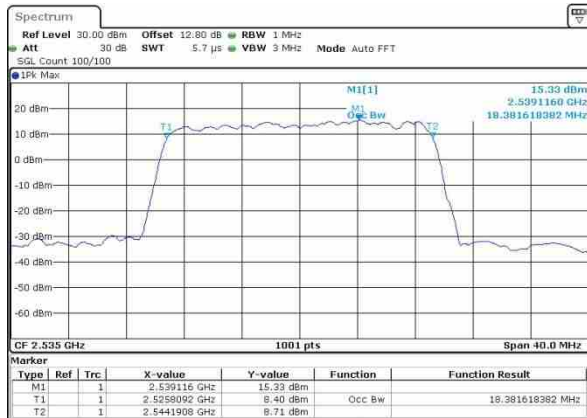
Lowest Channel / 20MHz / QPSK



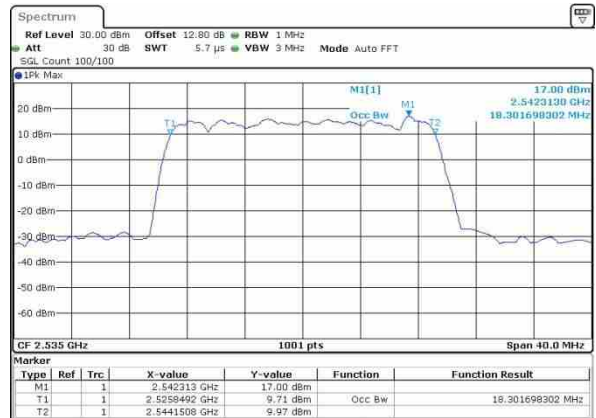
Lowest Channel / 20MHz / 16QAM



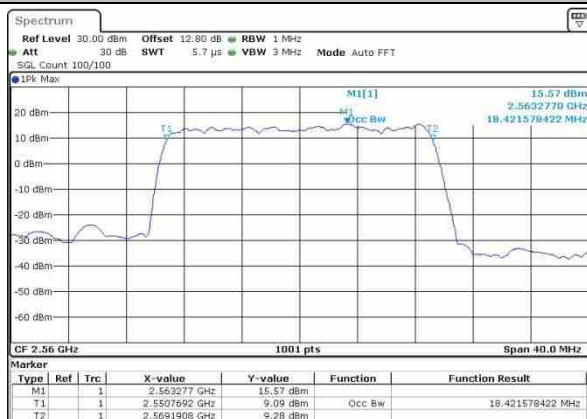
Middle Channel / 20MHz / QPSK



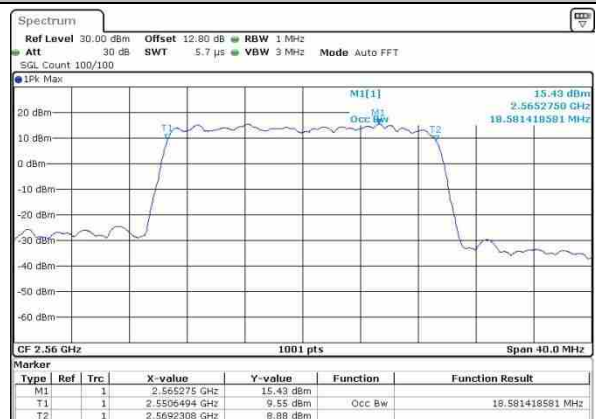
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



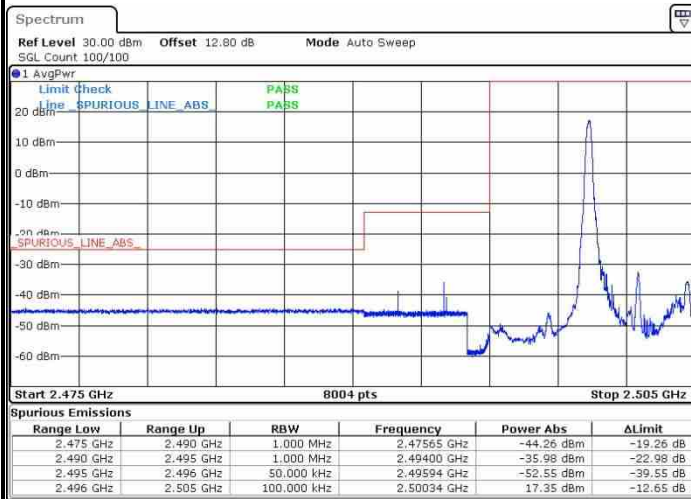


Conducted Band Edge

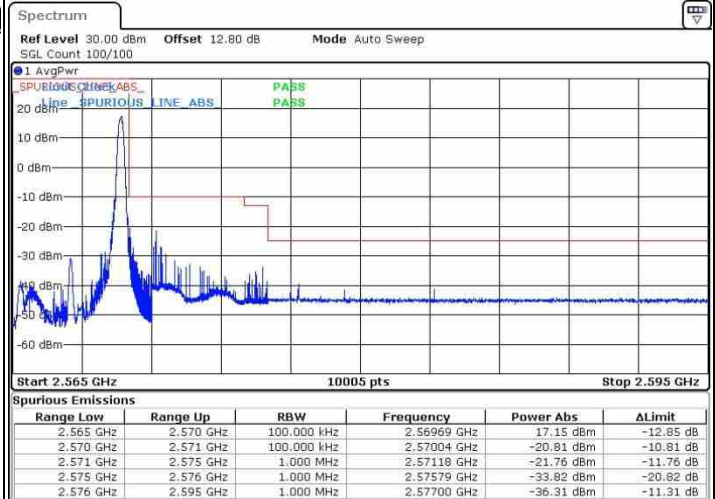


LTE Band 7 / 5MHz / QPSK

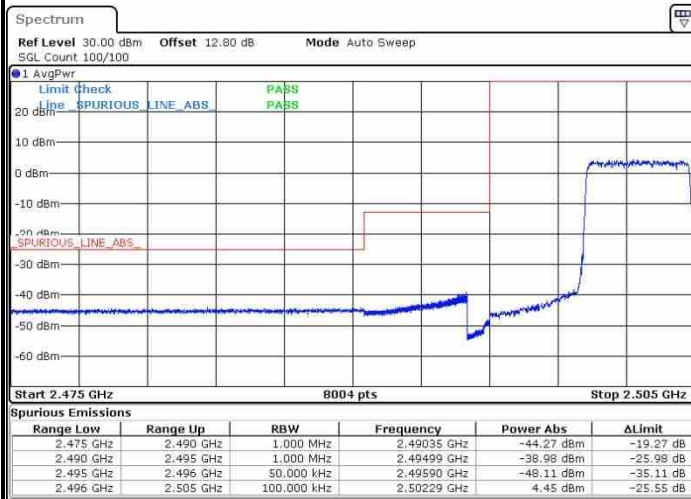
Lowest Band Edge / 1 RB



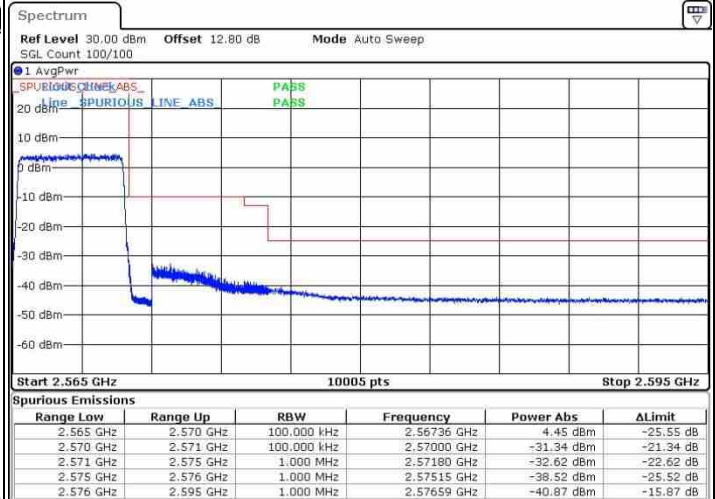
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



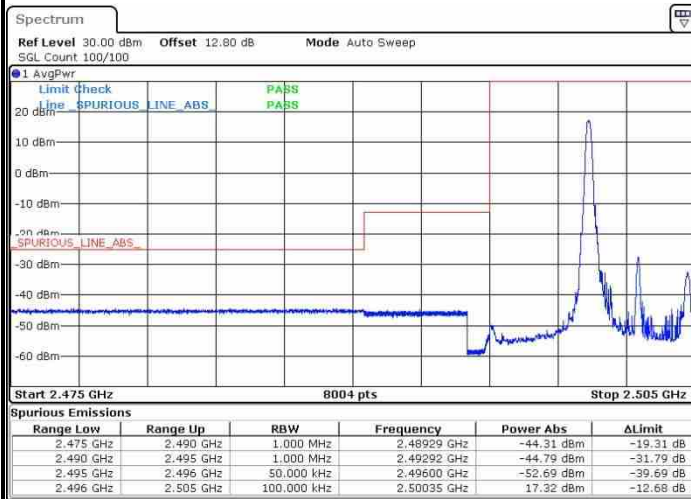
Highest Band Edge / Full RB



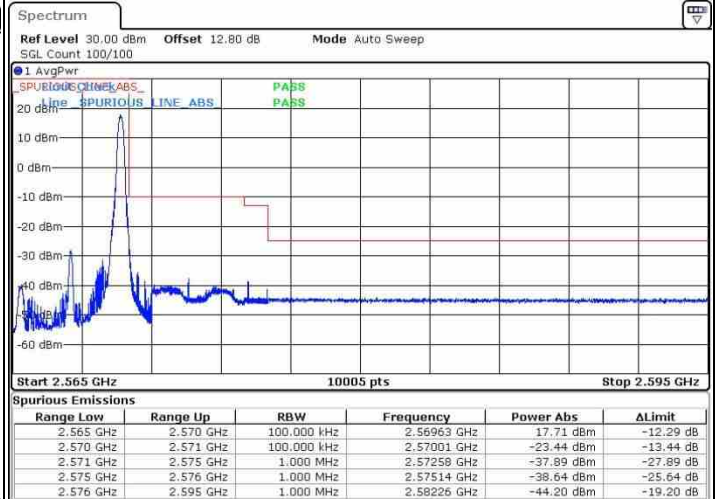


LTE Band 7 / 5MHz / 16QAM

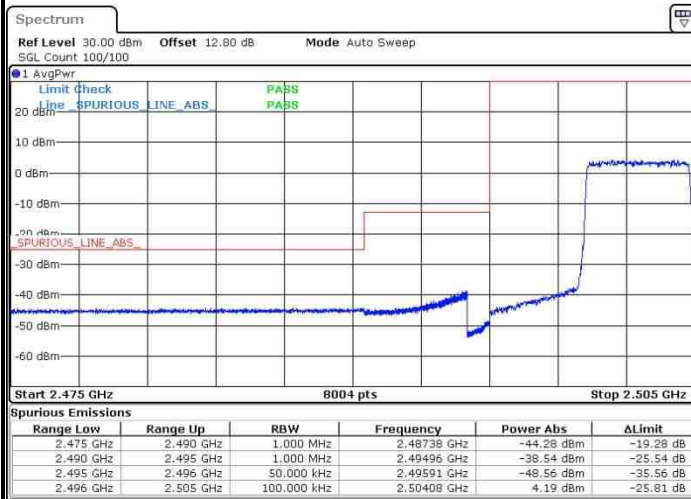
Lowest Band Edge / 1 RB



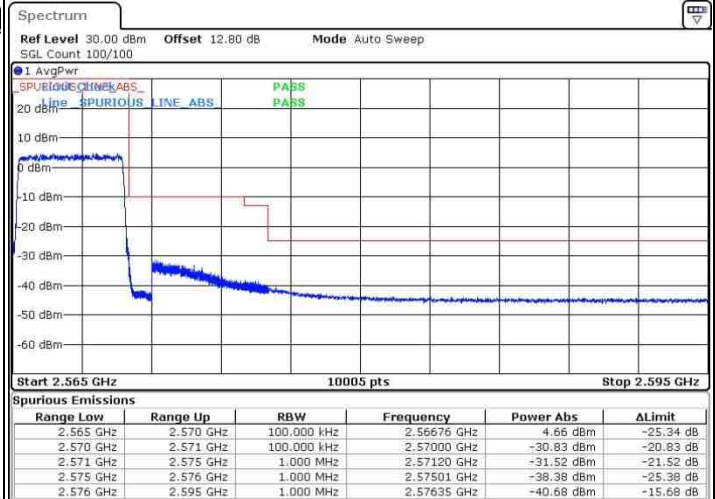
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



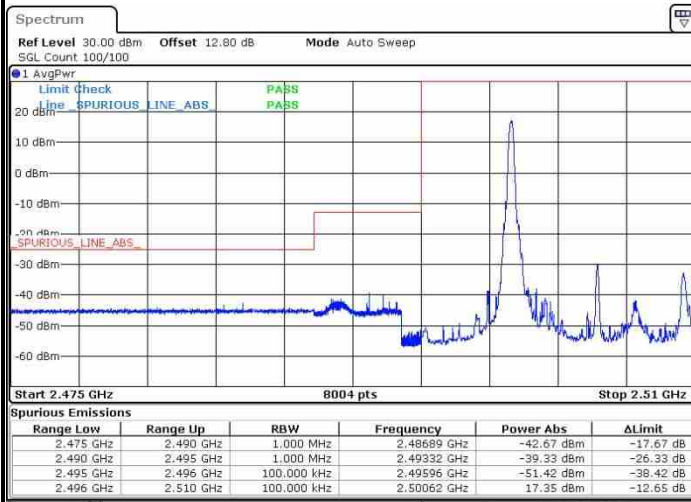
Highest Band Edge / Full RB



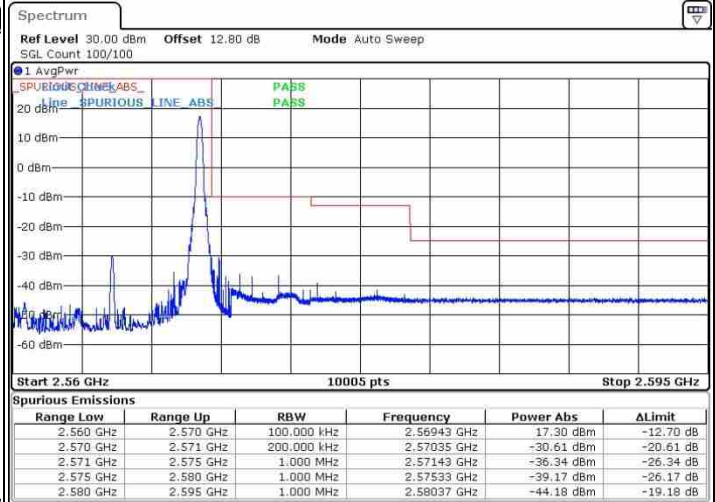


LTE Band 7 / 10MHz / QPSK

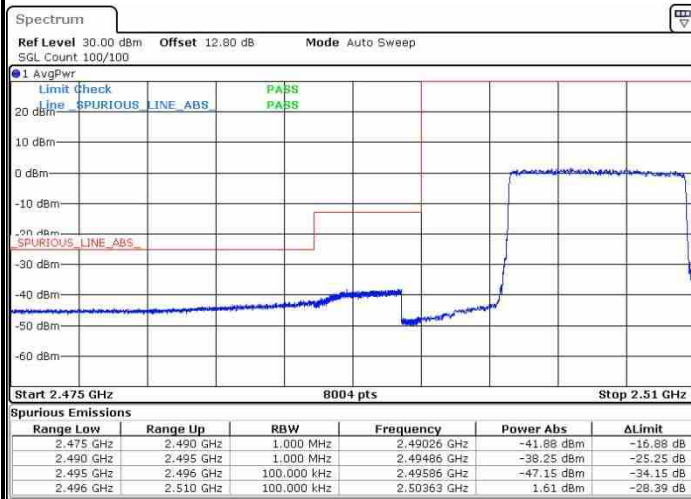
Lowest Band Edge / 1 RB



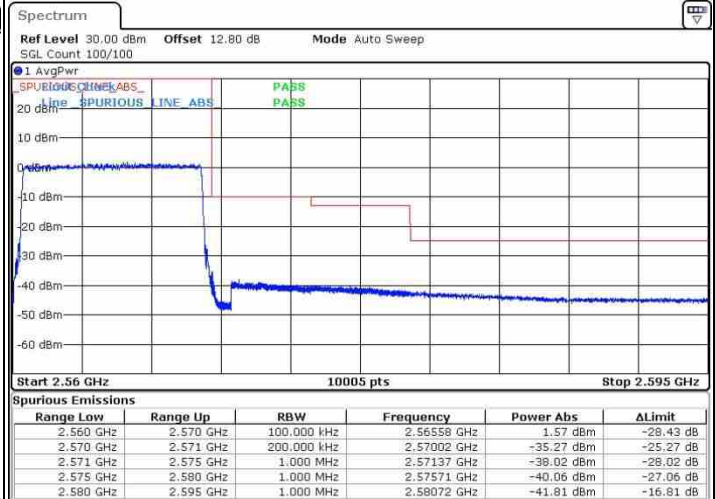
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



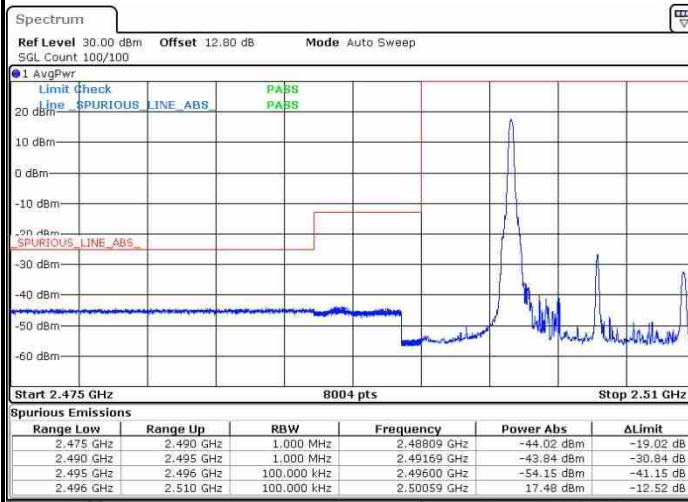
Highest Band Edge / Full RB



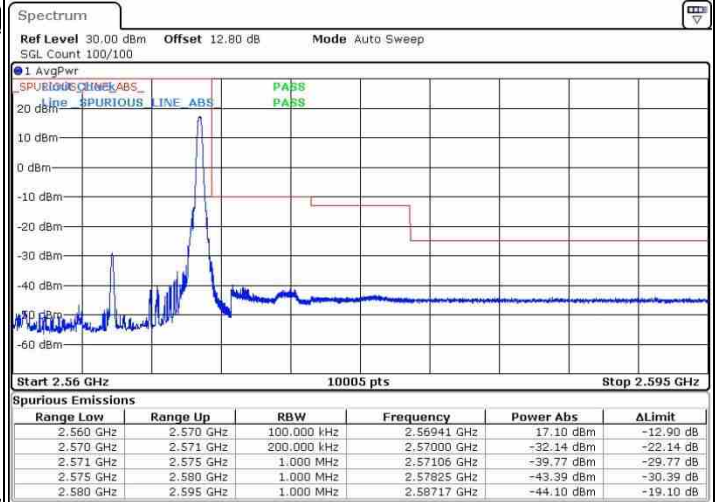


LTE Band 7 / 10MHz / 16QAM

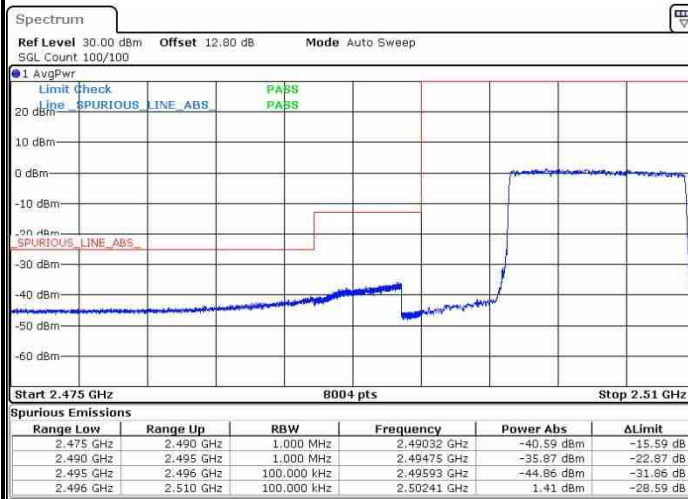
Lowest Band Edge / 1 RB



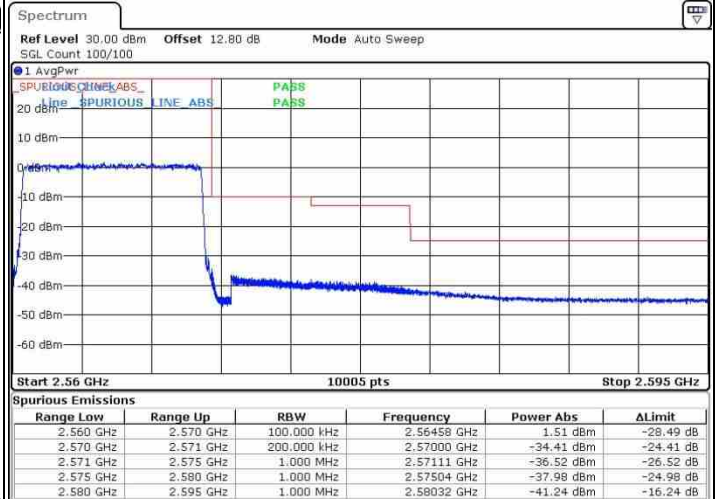
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



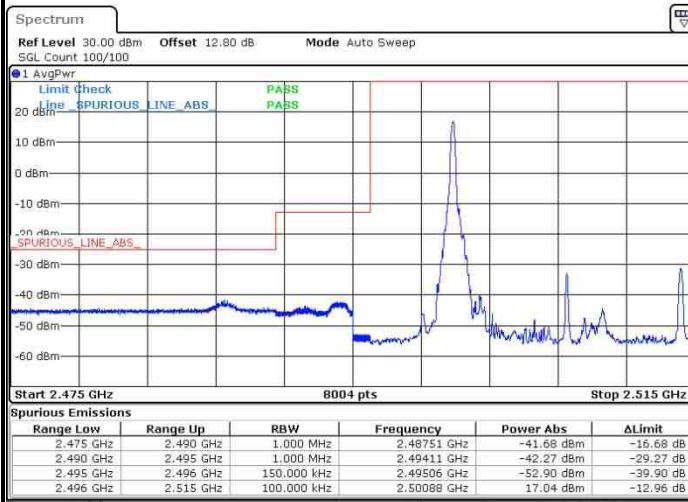
Highest Band Edge / Full RB



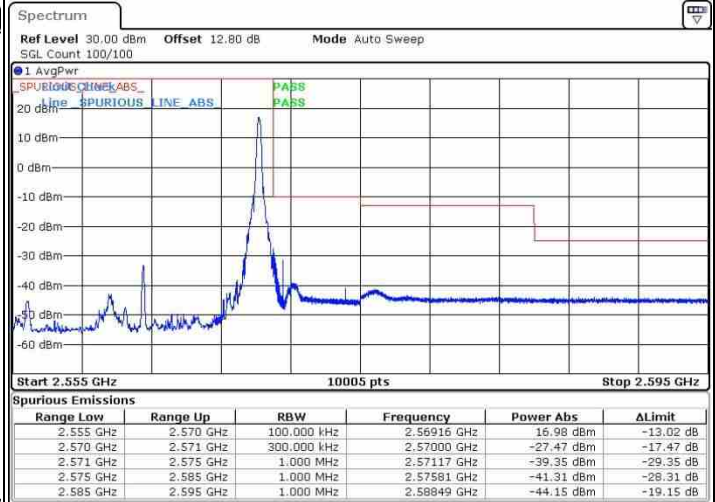


LTE Band 7 / 15MHz / QPSK

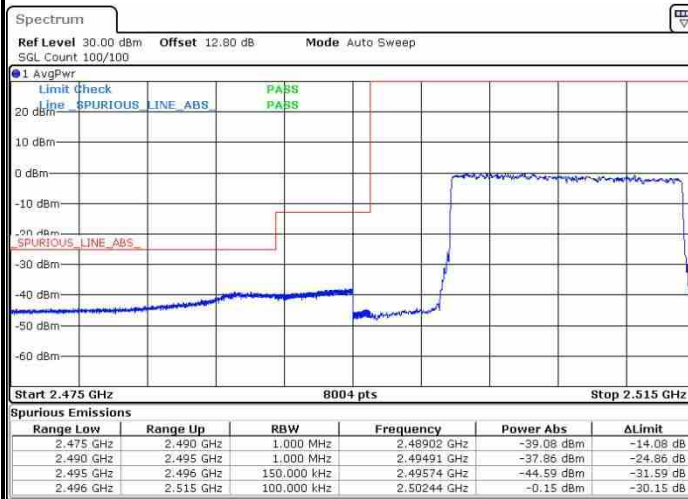
Lowest Band Edge / 1 RB



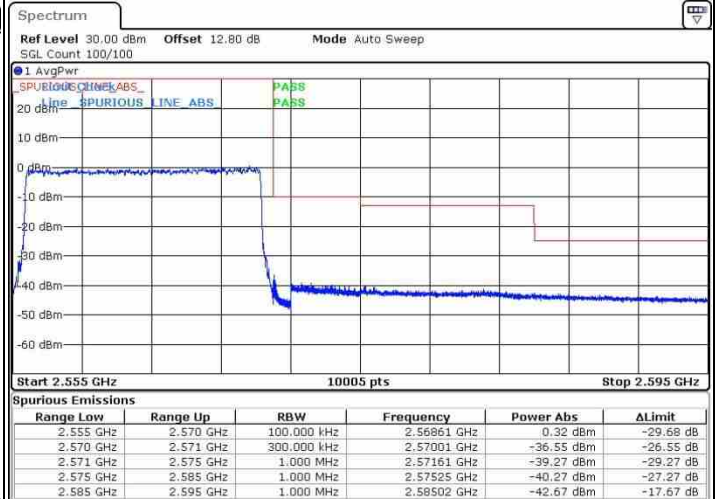
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



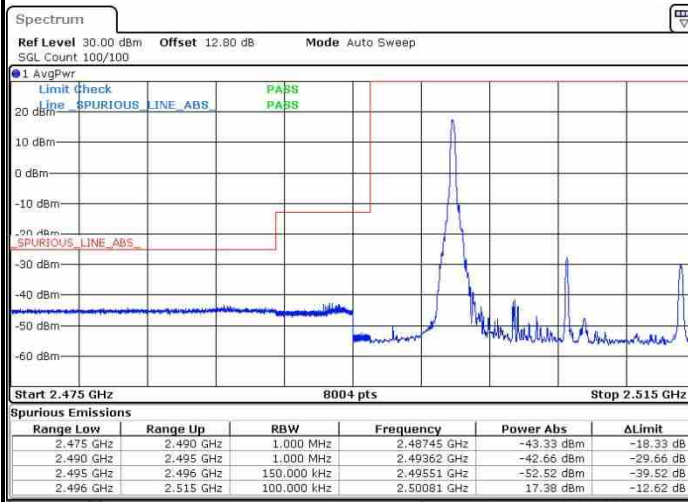
Highest Band Edge / Full RB



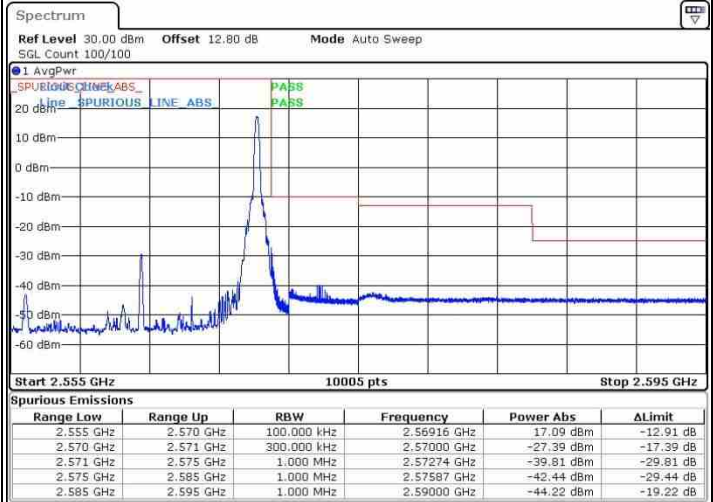


LTE Band 7 / 15MHz / 16QAM

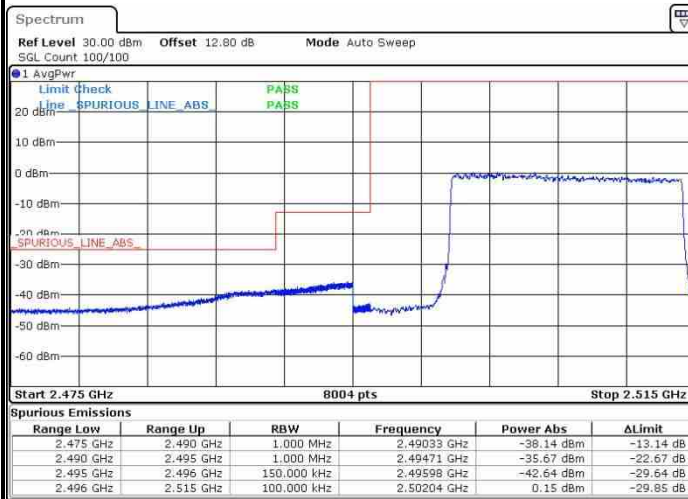
Lowest Band Edge / 1 RB



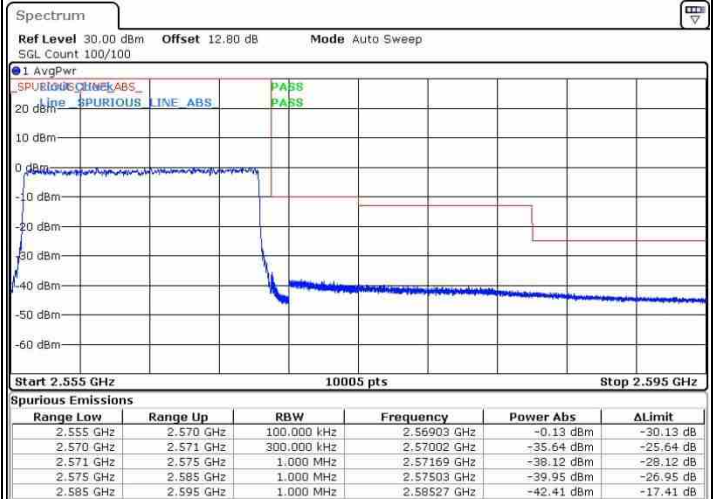
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



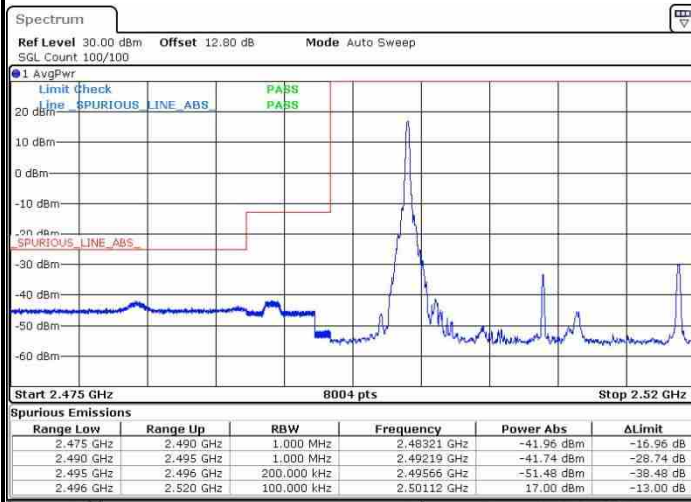
Highest Band Edge / Full RB



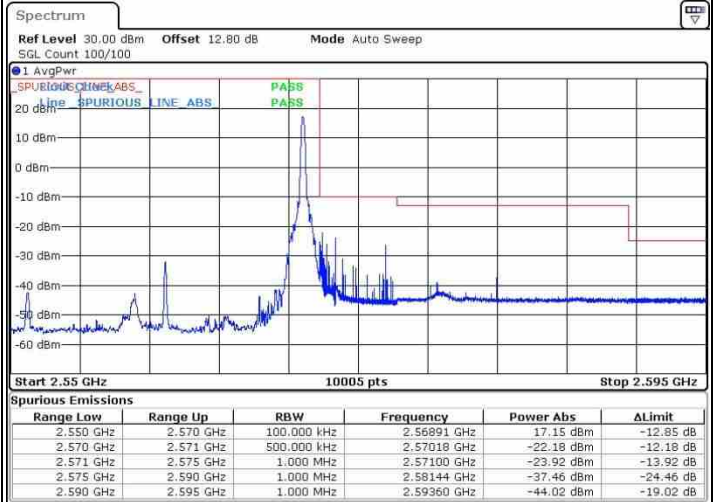


LTE Band 7 / 20MHz / QPSK

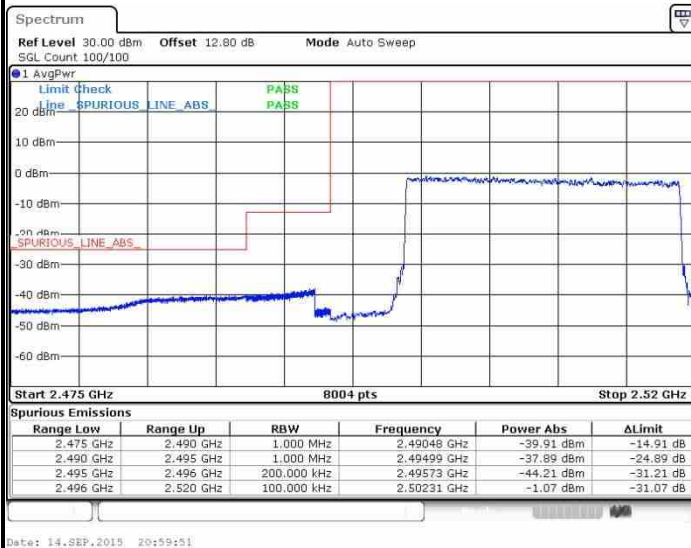
Lowest Band Edge / 1 RB



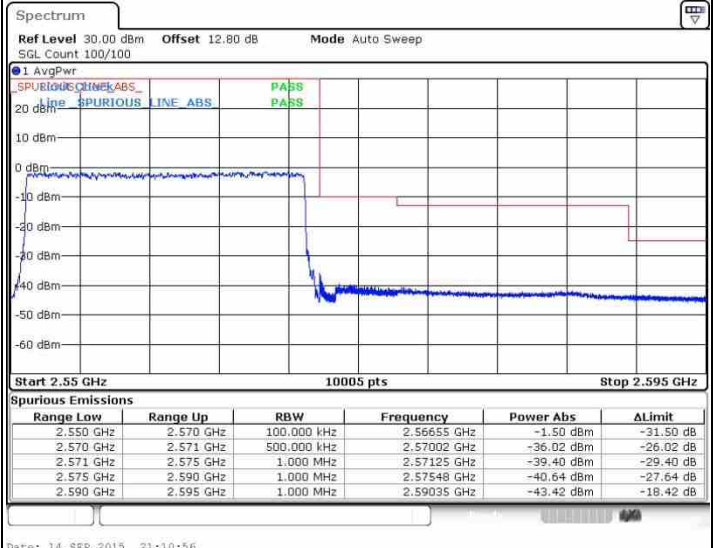
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



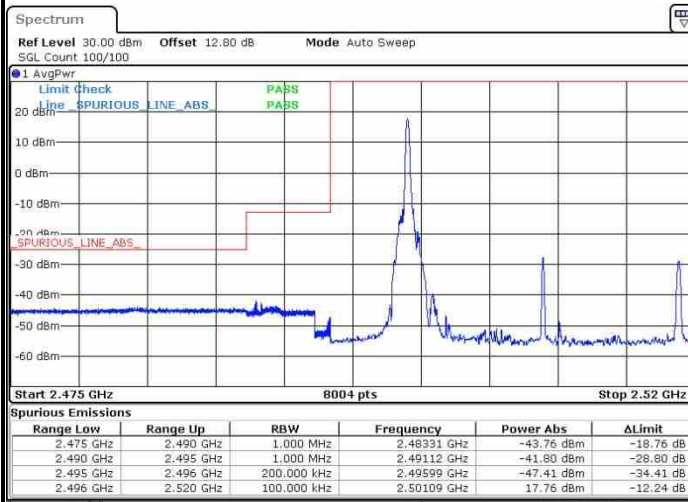
Highest Band Edge / Full RB



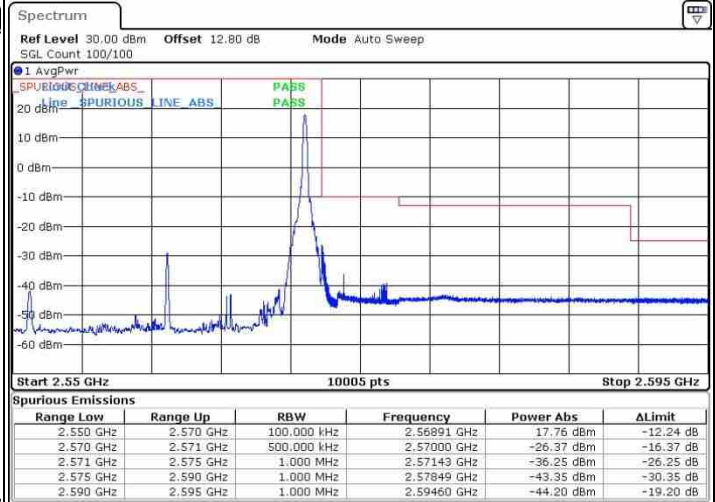


LTE Band 7 / 20MHz / 16QAM

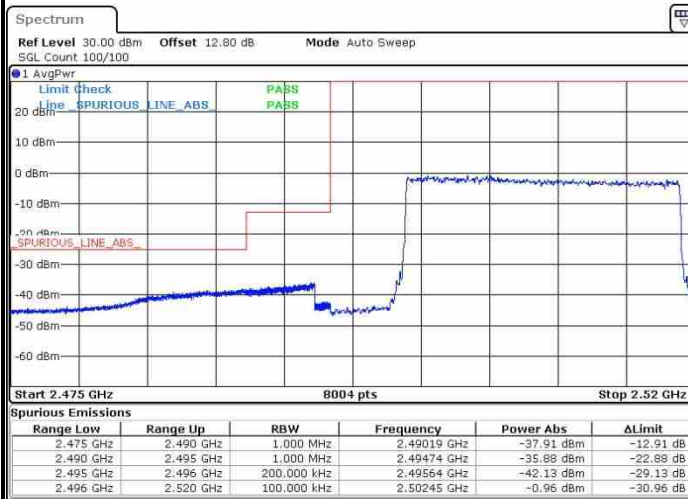
Lowest Band Edge / 1 RB



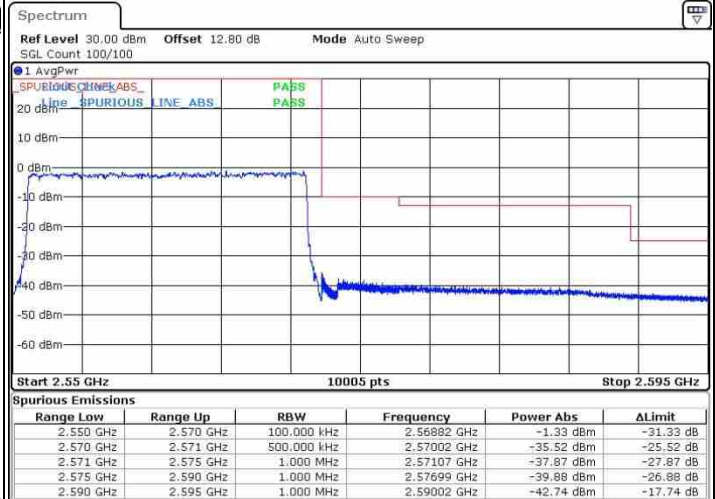
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



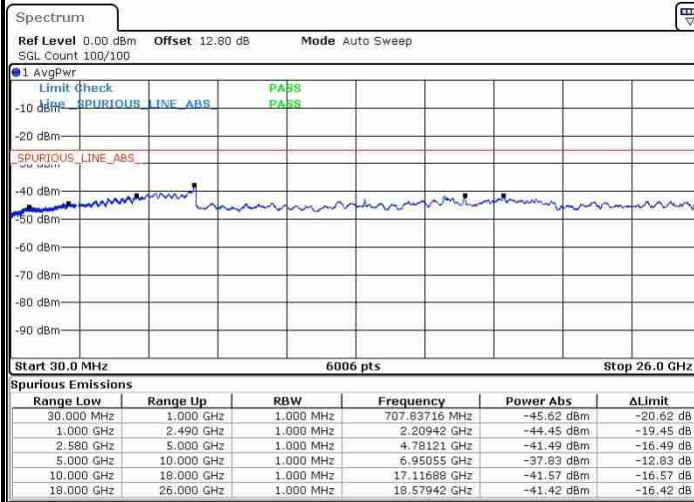


Conducted Spurious Emission



LTE Band 7 / 5MHz

Lowest Channel / QPSK



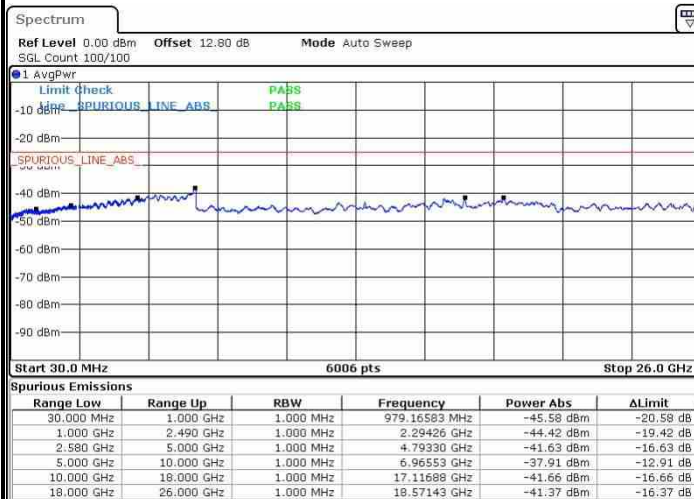
Date: 14.SEP.2015 20:10:20

Lowest Channel / 16QAM



Date: 14.SEP.2015 20:11:15

Middle Channel / QPSK



Date: 14.SEP.2015 20:12:57

Middle Channel / 16QAM



Date: 14.SEP.2015 20:13:53



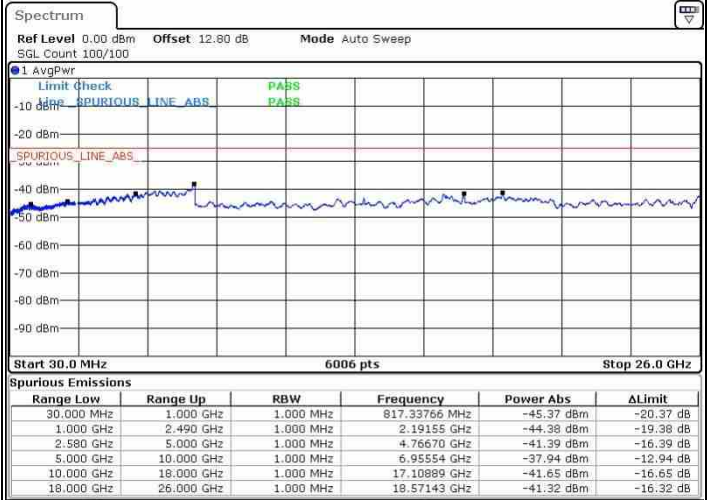
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 14.SEP.2015 20:20:15

Highest Channel / 16QAM



Date: 14.SEP.2015 20:21:10

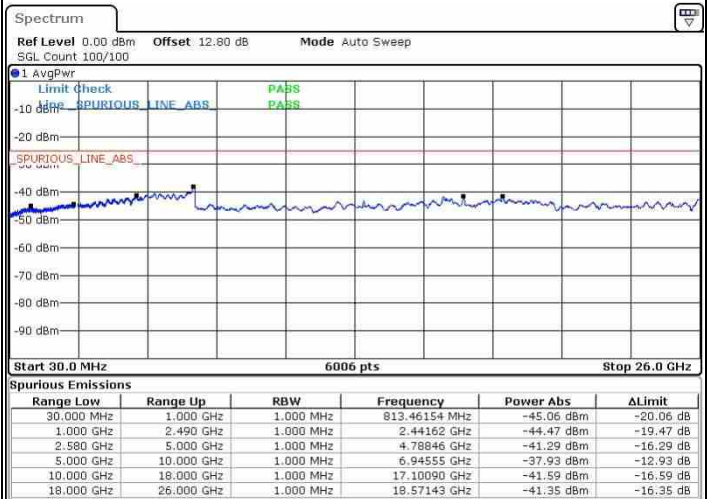
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 14.SEP.2015 20:27:32

Lowest Channel / 16QAM

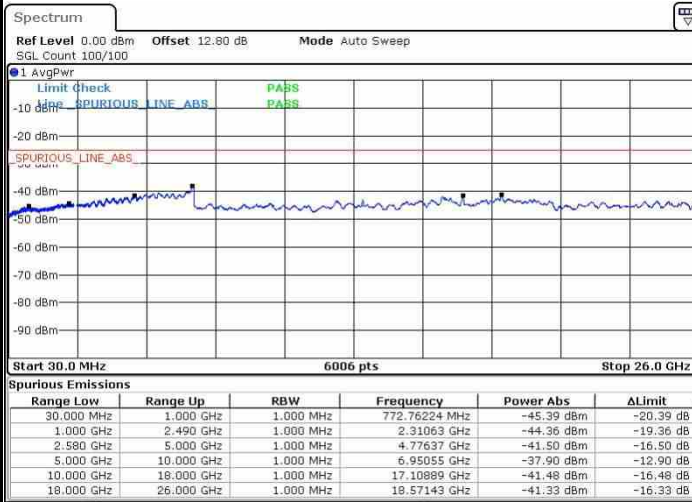


Date: 14.SEP.2015 20:28:27



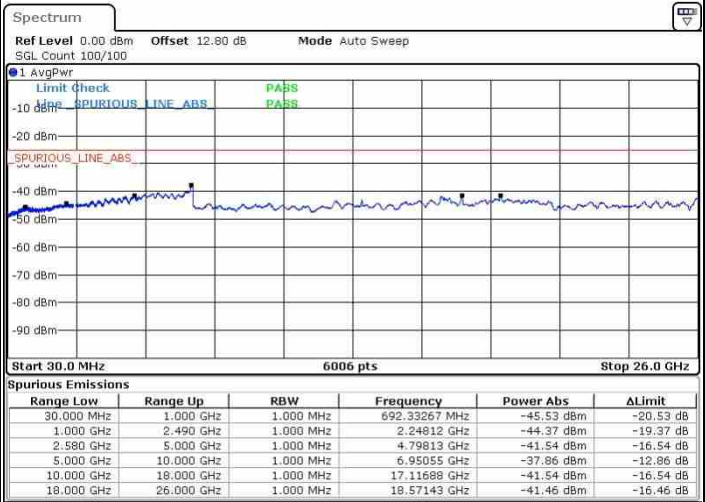
LTE Band 7 / 10MHz

Middle Channel / QPSK



Date: 14.SEP.2015 20:30:09

Middle Channel / 16QAM



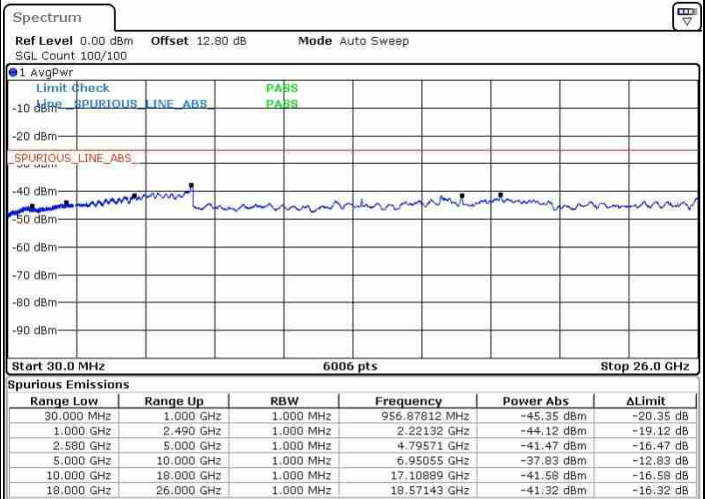
Date: 14.SEP.2015 20:31:09

Highest Channel / QPSK



Date: 14.SEP.2015 20:37:27

Highest Channel / 16QAM

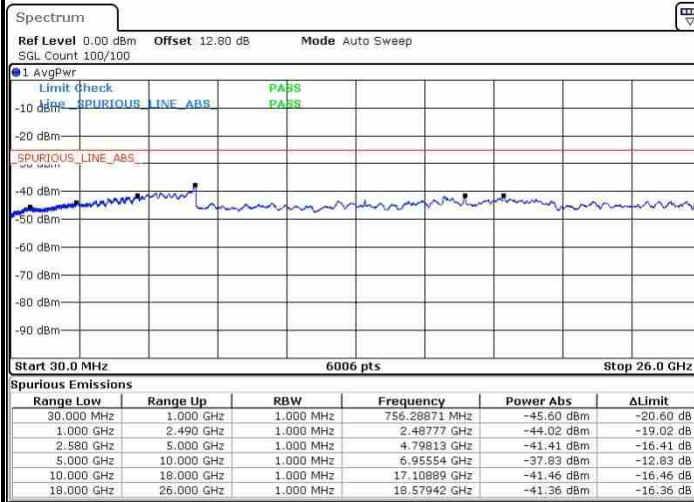


Date: 14.SEP.2015 20:38:22



LTE Band 7 / 15MHz

Lowest Channel / QPSK



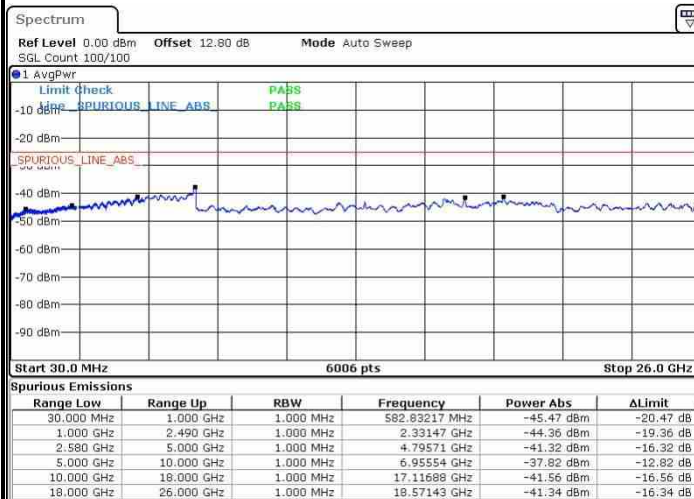
Date: 14.SEP.2015 20:44:44

Lowest Channel / 16QAM



Date: 14.SEP.2015 20:45:39

Middle Channel / QPSK



Date: 14.SEP.2015 20:47:21

Middle Channel / 16QAM



Date: 14.SEP.2015 20:48:17



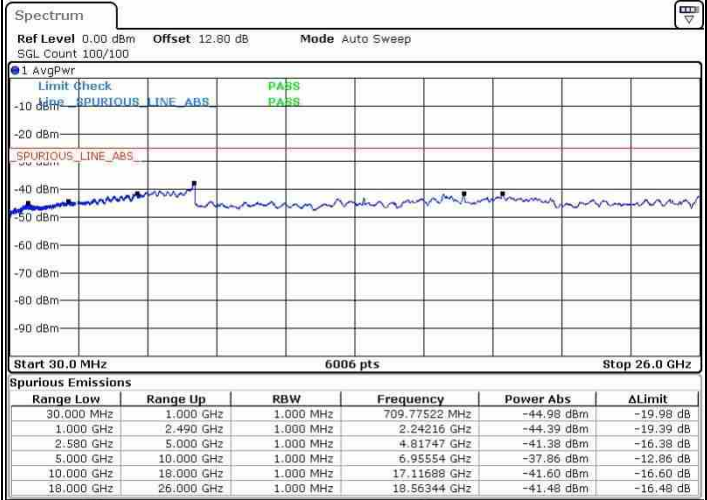
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 14.SEP.2015 20:54:39

Highest Channel / 16QAM



Date: 14.SEP.2015 20:55:34

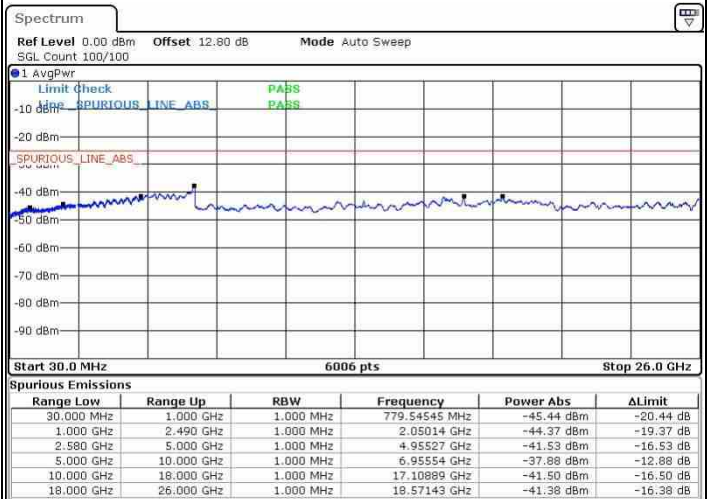
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 14.SEP.2015 21:01:56

Lowest Channel / 16QAM

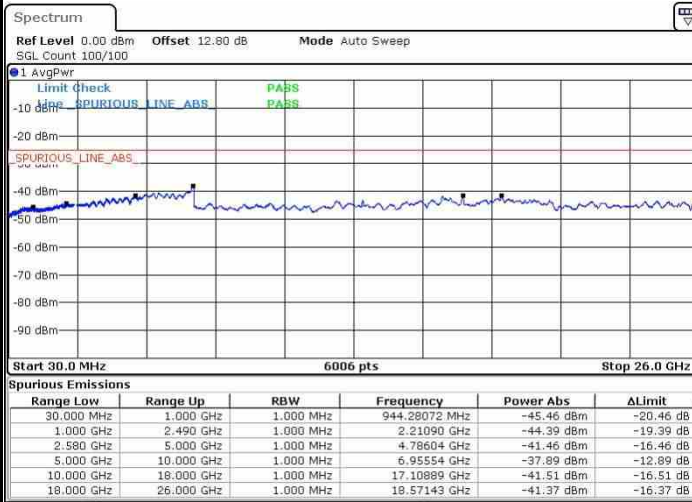


Date: 14.SEP.2015 21:02:51



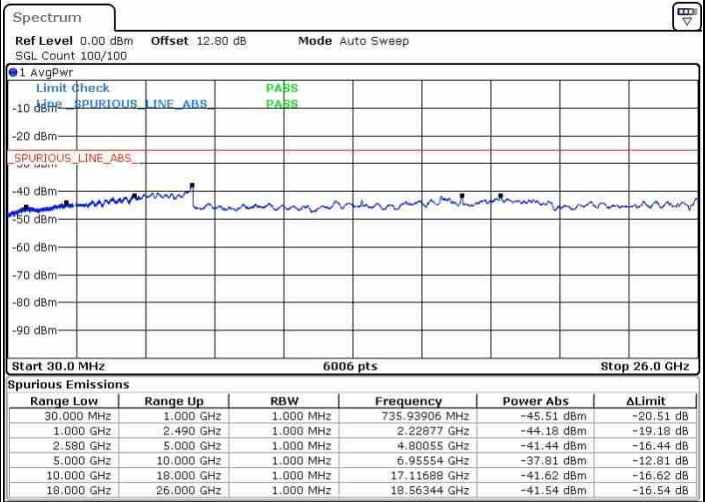
LTE Band 7 / 20MHz

Middle Channel / QPSK



Date: 14.SEP.2015 21:04:34

Middle Channel / 16QAM



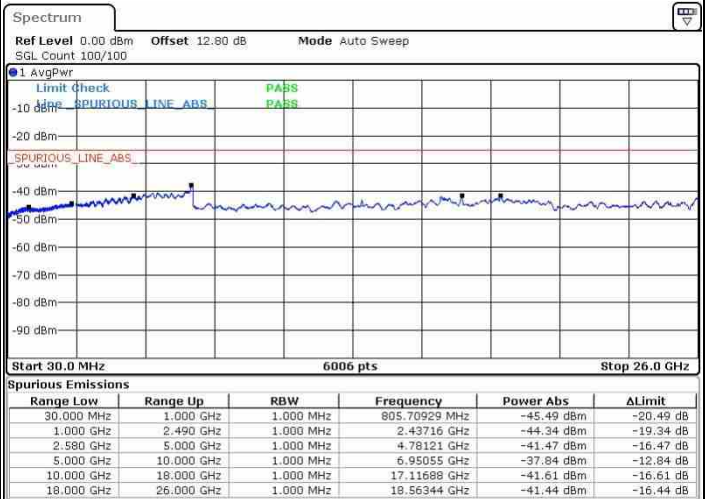
Date: 14.SEP.2015 21:05:29

Highest Channel / QPSK



Date: 14.SEP.2015 21:11:51

Highest Channel / 16QAM



Date: 14.SEP.2015 21:12:47

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0076	
0	Normal Voltage	0.0085	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0081	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

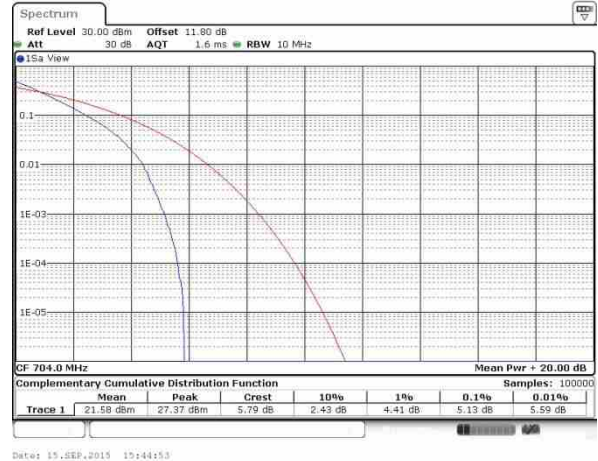
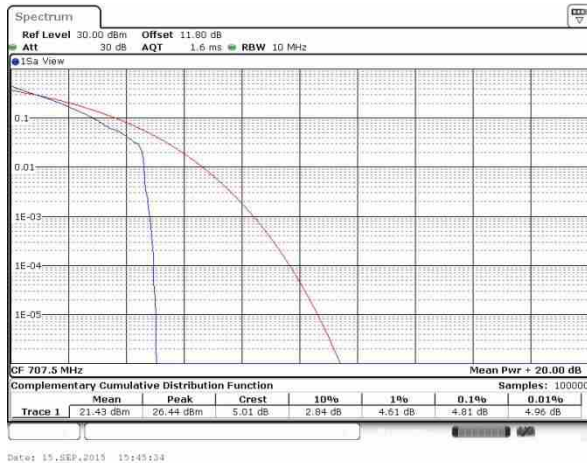


LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.64	5.13	5.16	6.03	PASS
Middle CH	4.81	4.99	5.42	6	
Highest CH	4.96	5.04	5.54	5.91	

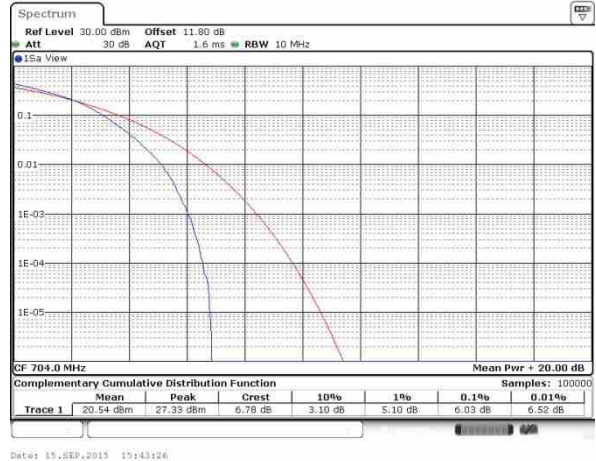
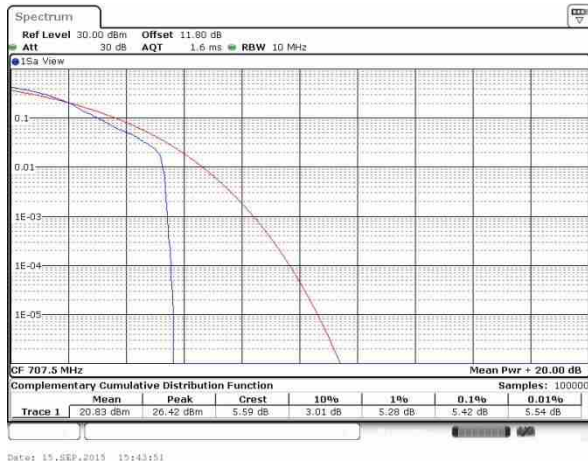
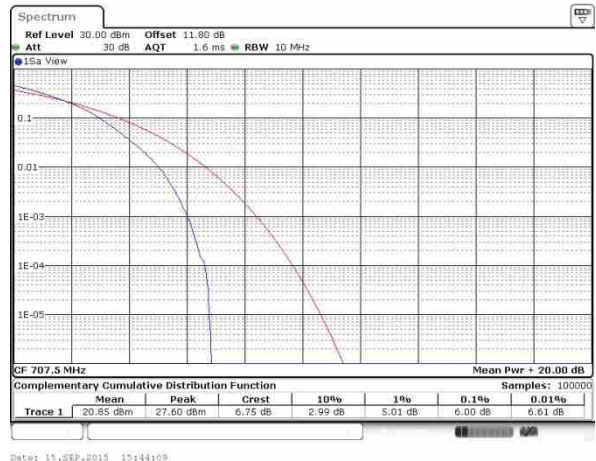
LTE Band 12 / 10MHz / QPSK
Lowest Channel / 1RB

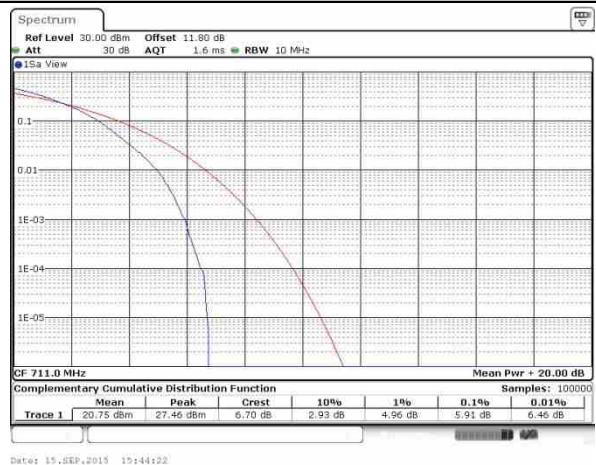
Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB




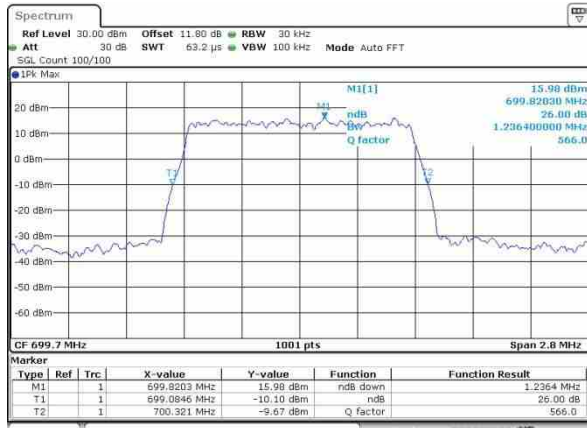
26dB Bandwidth

Mode	LTE Band 12 : 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	1.24	1.23	3.02	3	4.87	4.93	9.91	9.77	-	-	-	-
Middle CH	1.21	1.23	3.02	2.95	4.9	4.99	9.91	9.73	-	-	-	-
Highest CH	1.21	1.22	3.01	3.02	4.9	4.86	9.73	9.73	-	-	-	-



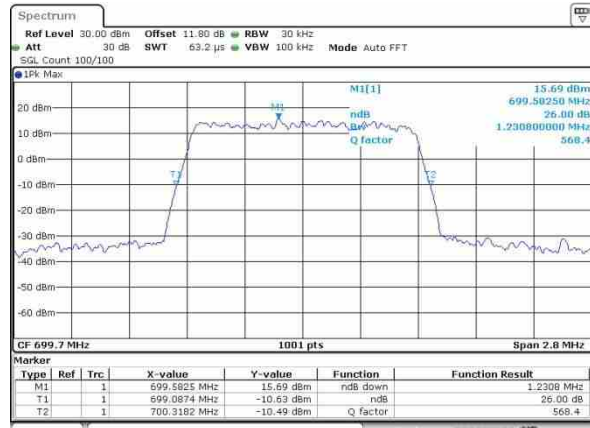
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



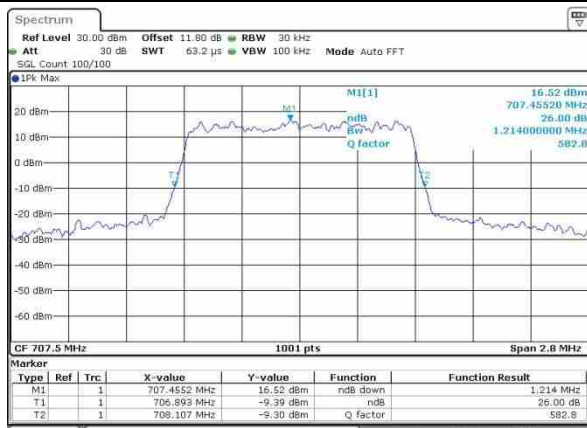
Date: 15.SEP.2015 14:24:13

Lowest Channel / 1.4MHz / 16QAM



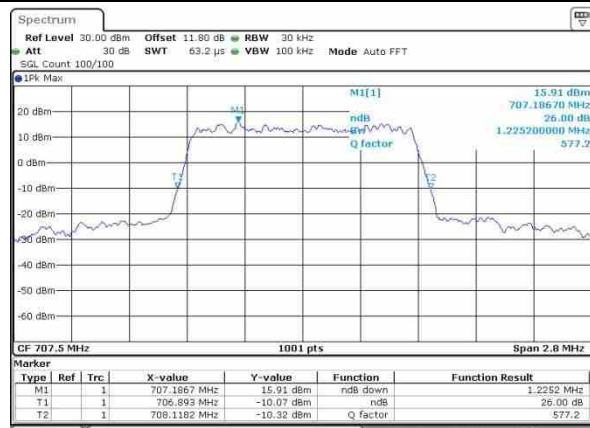
Date: 15.SEP.2015 14:24:01

Middle Channel / 1.4MHz / QPSK



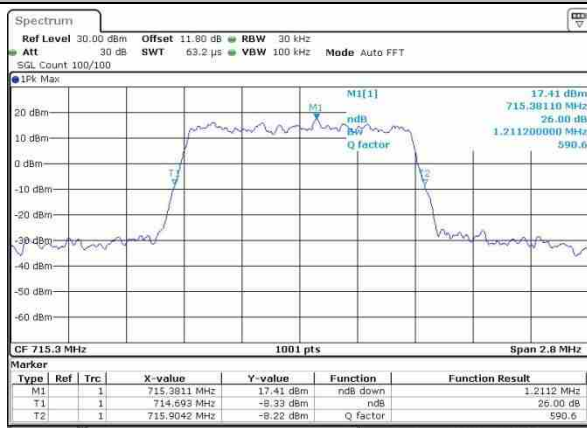
Date: 15.SEP.2015 14:19:18

Middle Channel / 1.4MHz / 16QAM



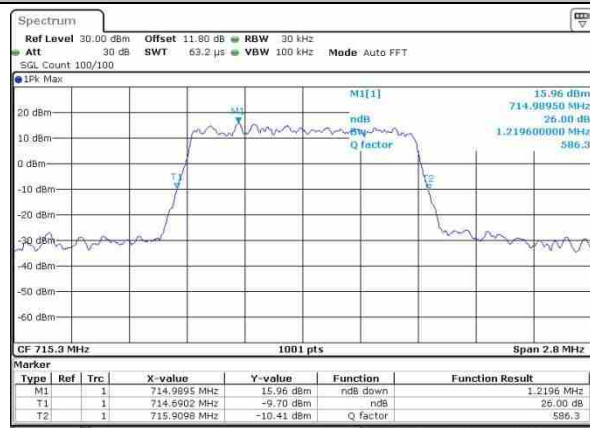
Date: 15.SEP.2015 14:19:30

Highest Channel / 1.4MHz / QPSK



Date: 15.SEP.2015 14:19:13

Highest Channel / 1.4MHz / 16QAM

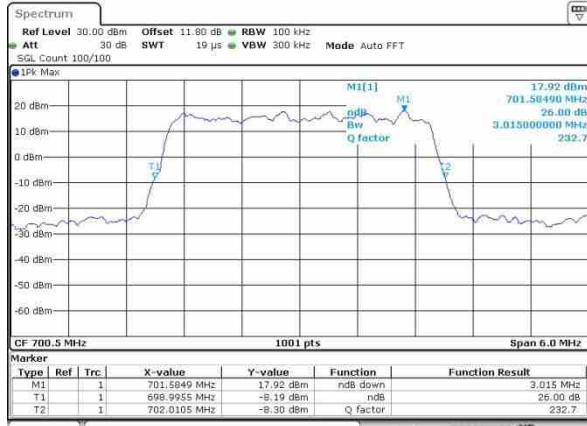


Date: 15.SEP.2015 14:19:02



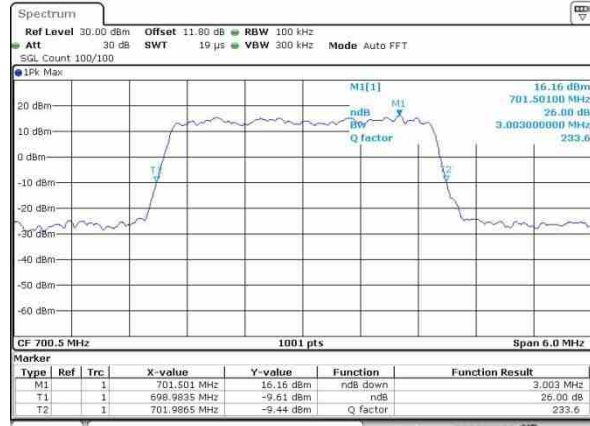
LTE Band 12

Lowest Channel / 3MHz / QPSK



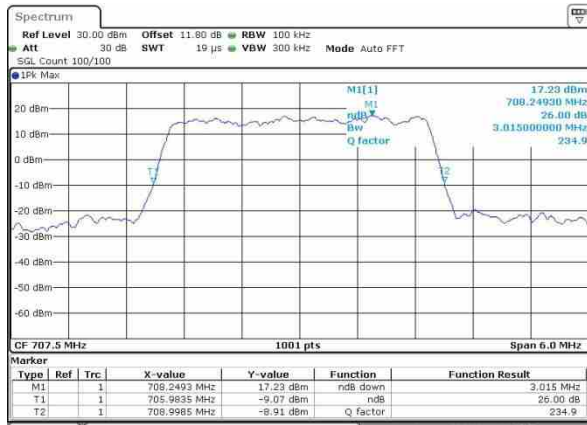
Date: 15.SEP.2015 11:19:27

Lowest Channel / 3MHz / 16QAM



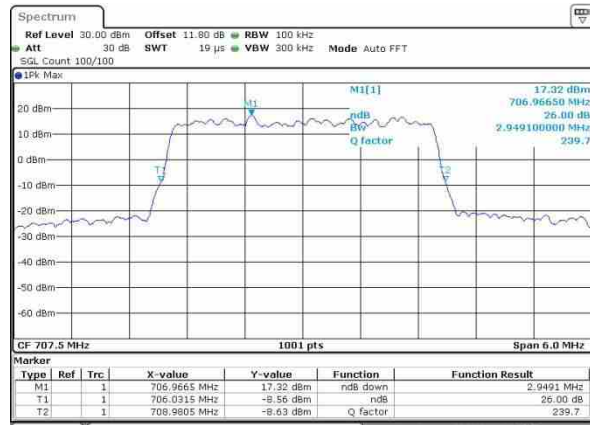
Date: 15.SEP.2015 11:19:15

Middle Channel / 3MHz / QPSK



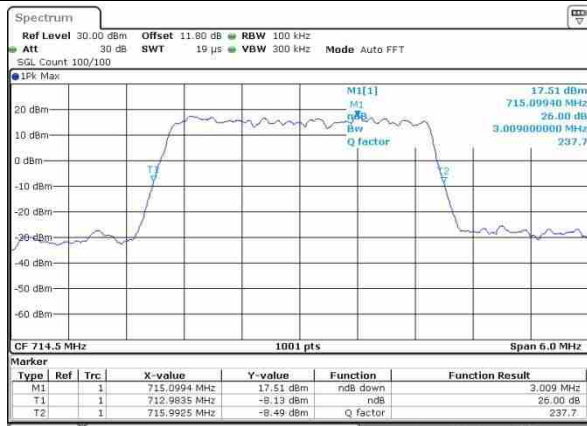
Date: 15.SEP.2015 11:25:37

Middle Channel / 3MHz / 16QAM



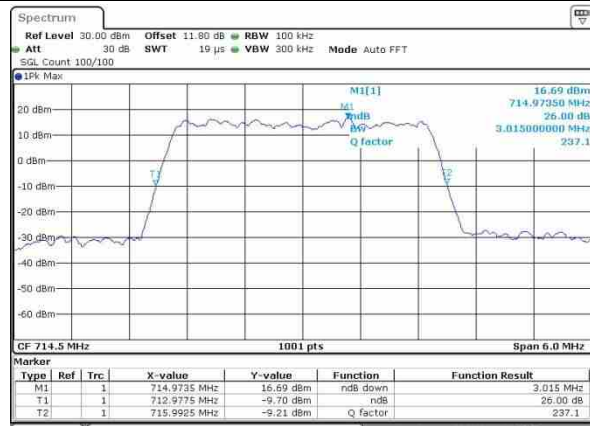
Date: 15.SEP.2015 11:25:49

Highest Channel / 3MHz / QPSK



Date: 15.SEP.2015 11:28:32

Highest Channel / 3MHz / 16QAM

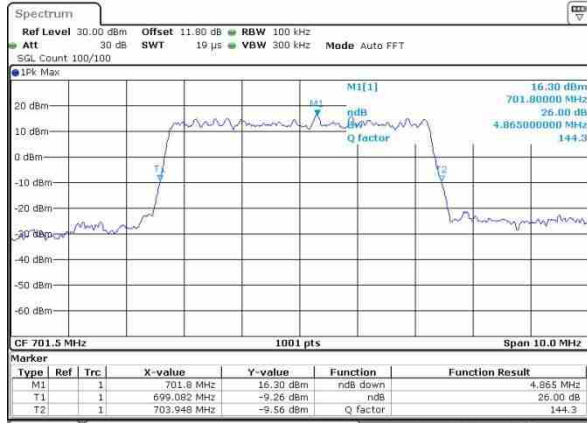


Date: 15.SEP.2015 11:28:21

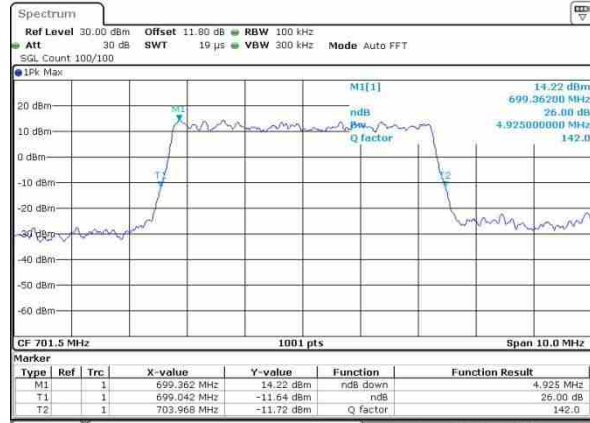


LTE Band 12

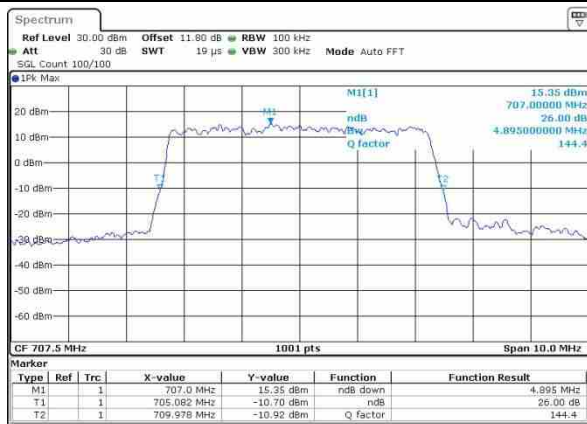
Lowest Channel / 5MHz / QPSK



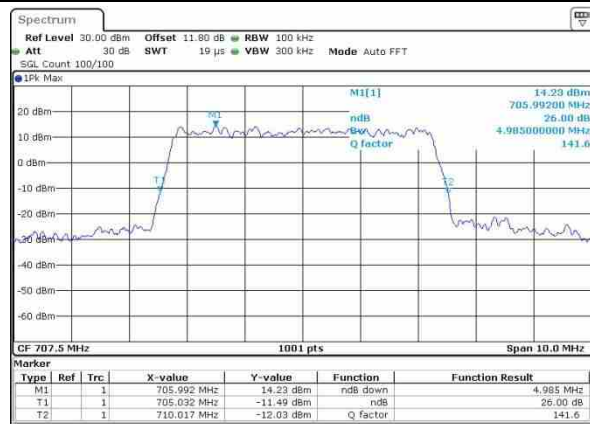
Lowest Channel / 5MHz / 16QAM



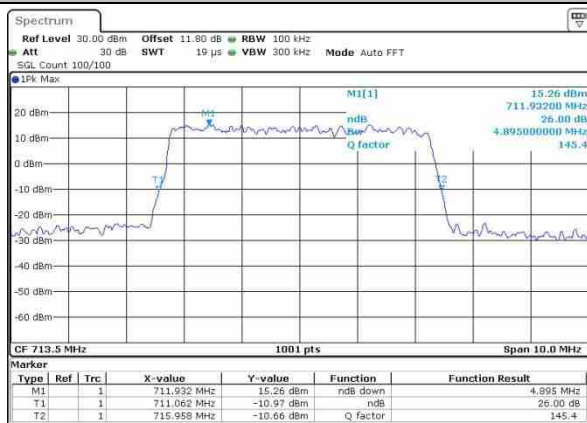
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM

