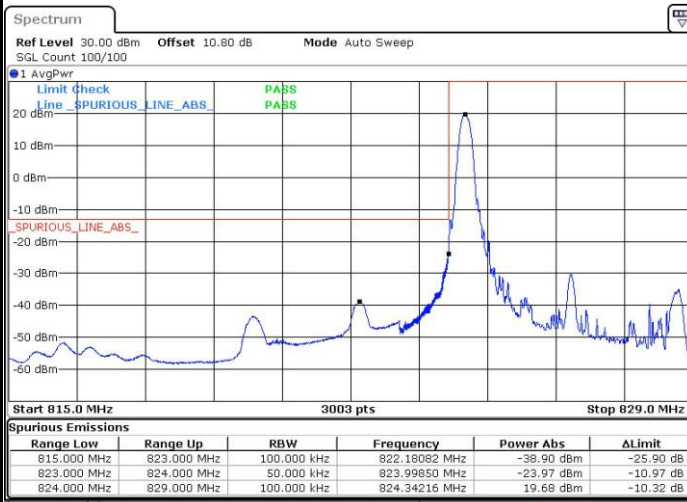




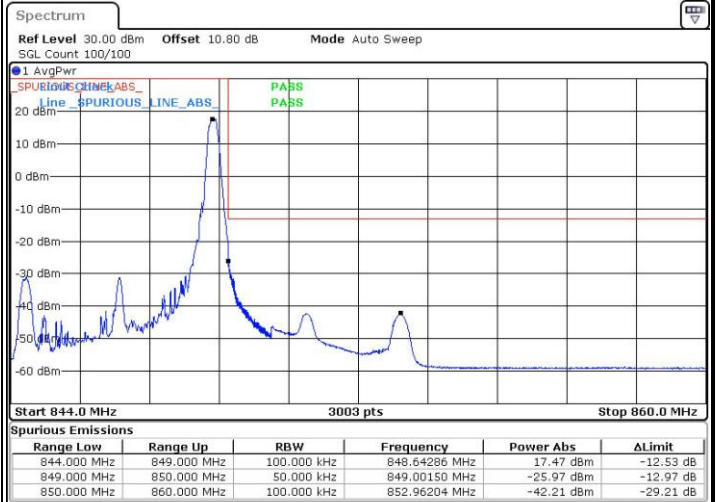
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



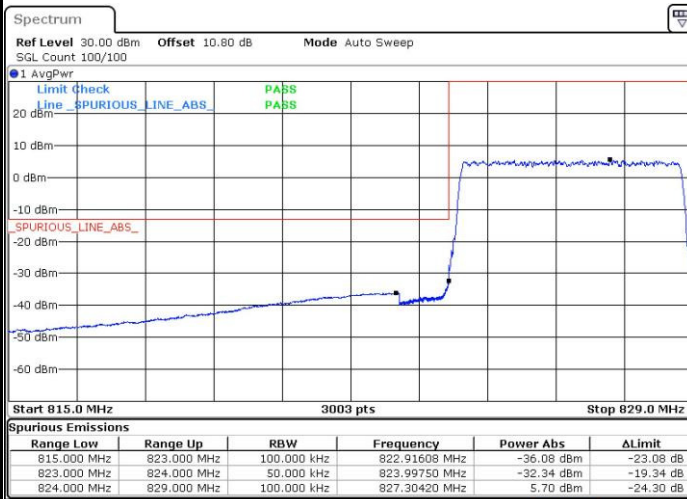
Date: 8 JAN 2017 23:25:59

Highest Band Edge / 1 RB



Date: 8 JAN 2017 23:38:16

Lowest Band Edge / Full RB



Date: 8 JAN 2017 23:29:18

Highest Band Edge / Full RB

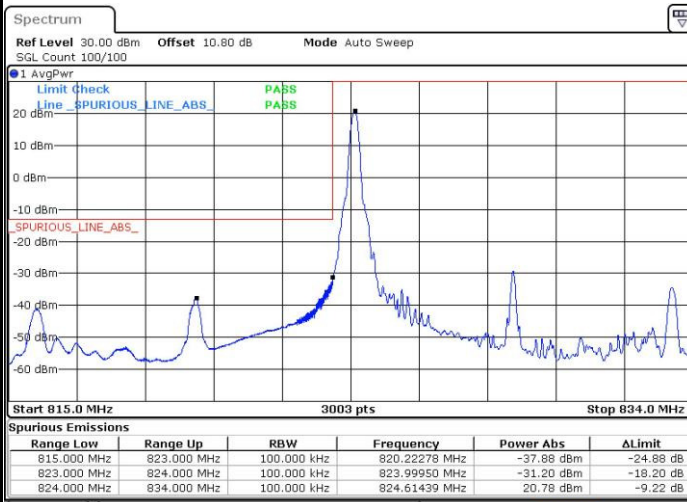


Date: 8 JAN 2017 23:41:35



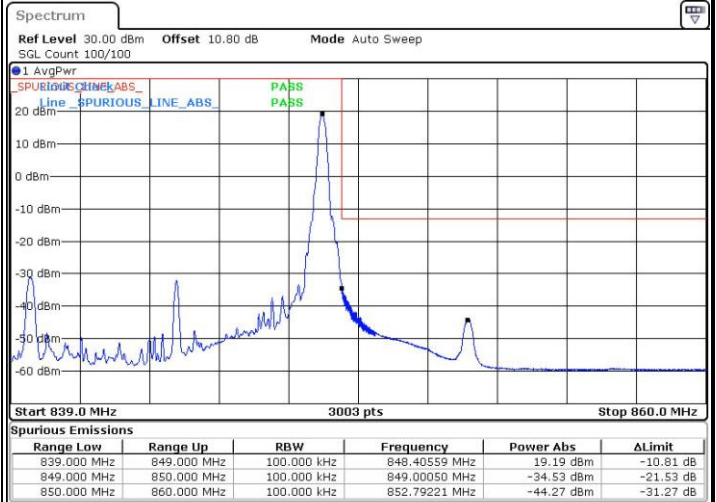
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



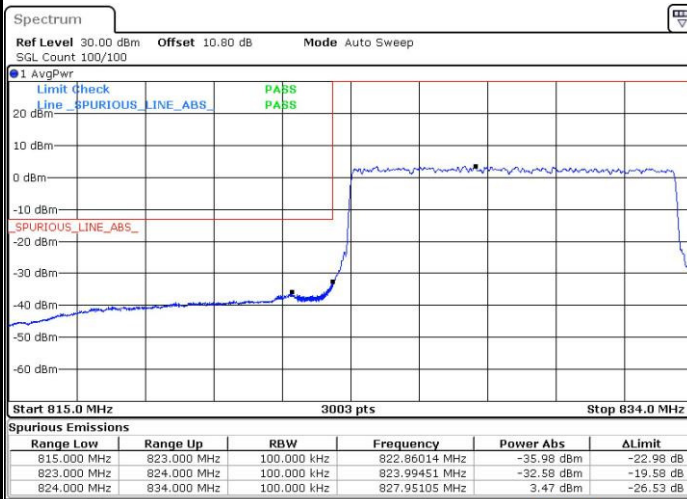
Date: 8 JAN 2017 23:45:44

Highest Band Edge / 1 RB



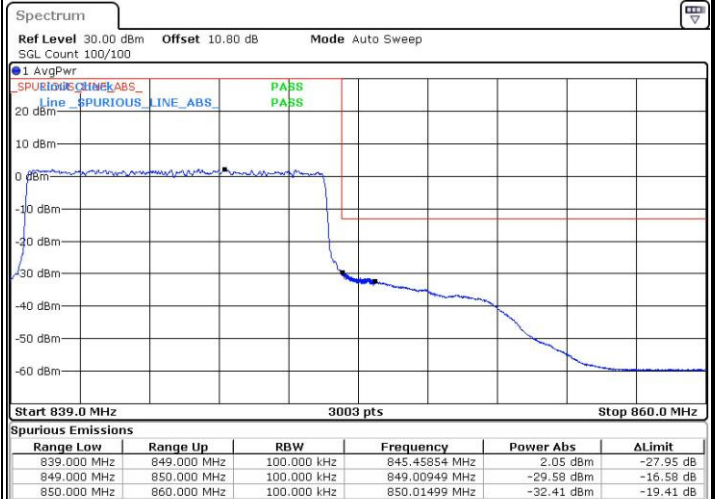
Date: 9 JAN 2017 09:00:19

Lowest Band Edge / Full RB



Date: 8 JAN 2017 23:49:02

Highest Band Edge / Full RB

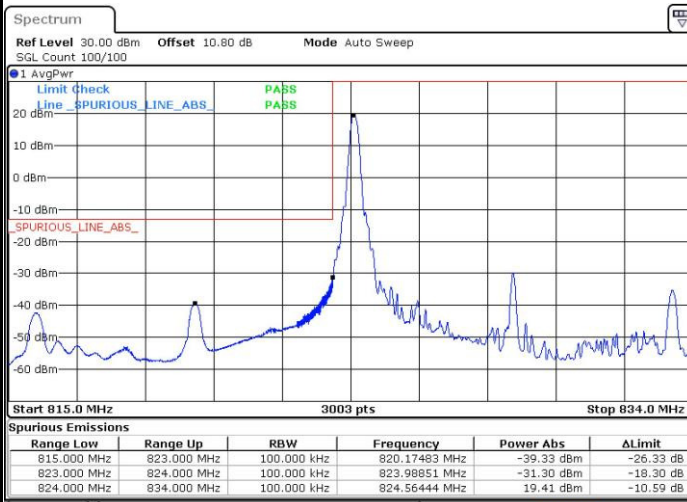


Date: 9 JAN 2017 09:03:38



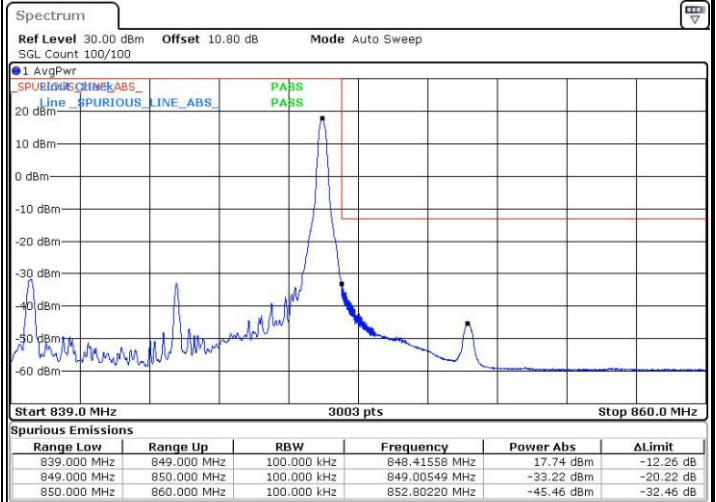
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



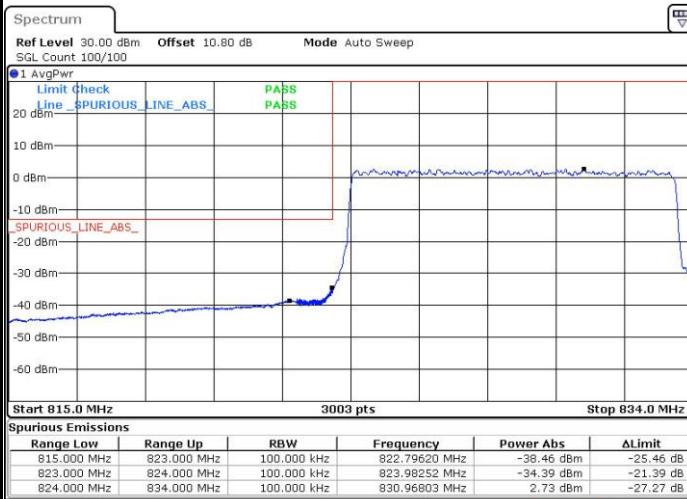
Date: 8 JAN 2017 23:47:23

Highest Band Edge / 1 RB



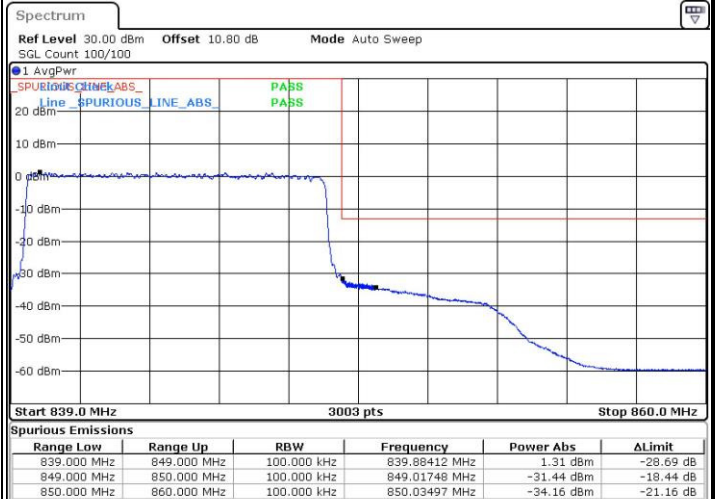
Date: 9 JAN 2017 09:01:59

Lowest Band Edge / Full RB



Date: 8 JAN 2017 23:50:41

Highest Band Edge / Full RB



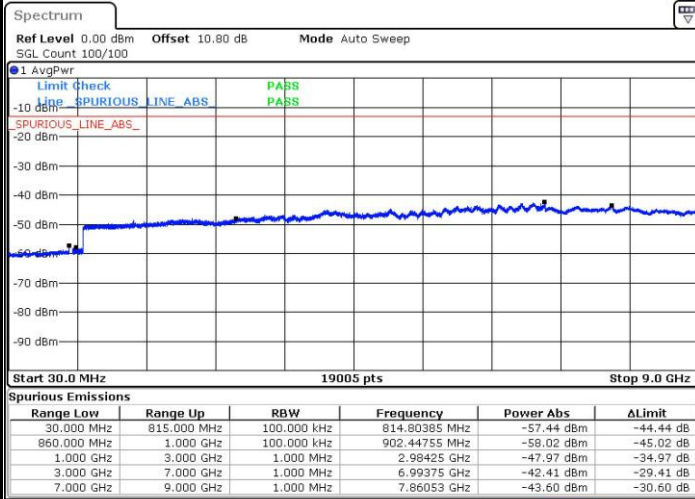
Date: 9 JAN 2017 09:05:17



Conducted Spurious Emission

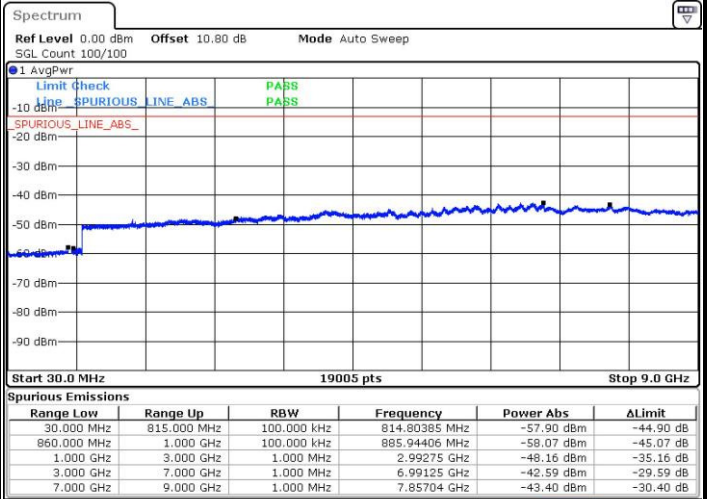
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



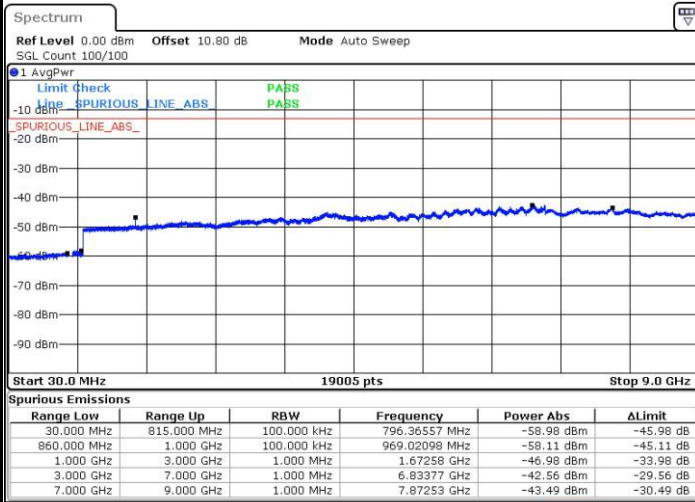
Date: 9 JAN 2017 09:19:41

Lowest Channel / 16QAM



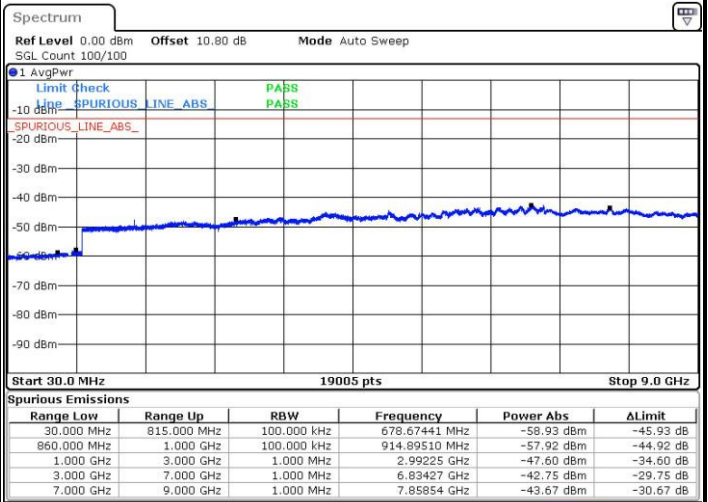
Date: 9 JAN 2017 09:20:35

Middle Channel / QPSK



Date: 9 JAN 2017 09:22:11

Middle Channel / 16QAM

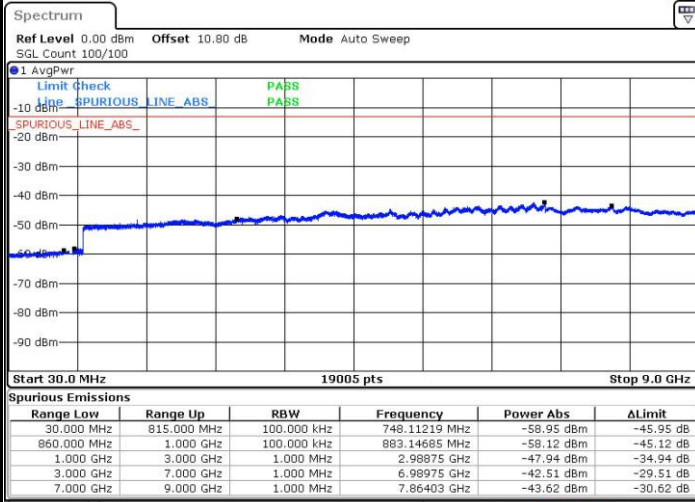


Date: 9 JAN 2017 09:23:05



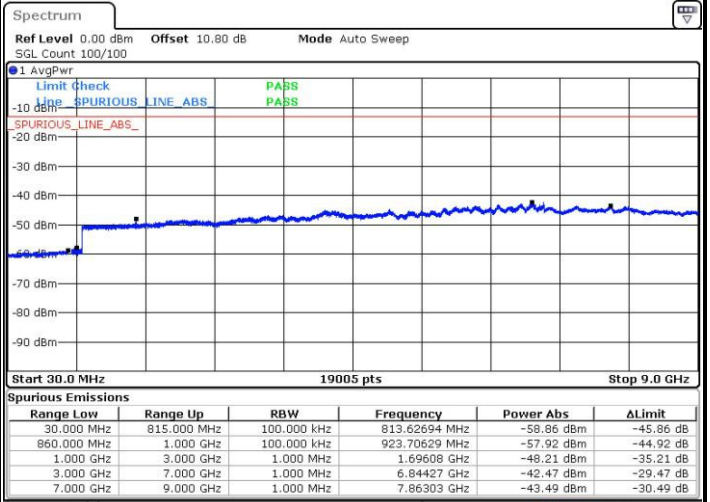
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 9 JAN 2017 09:31:18

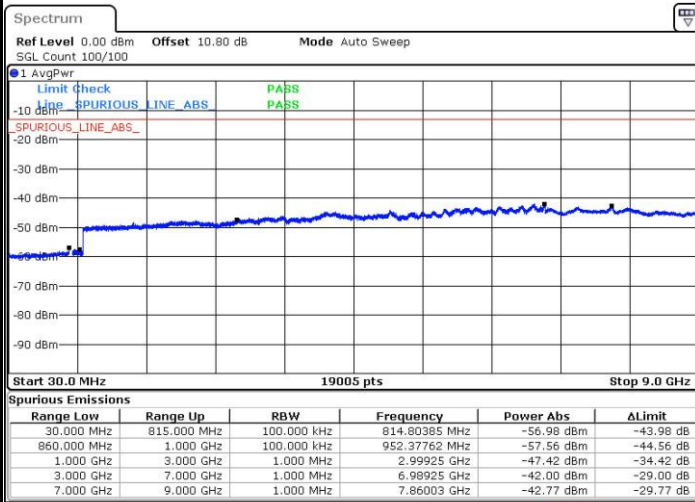
Highest Channel / 16QAM



Date: 9 JAN 2017 09:32:13

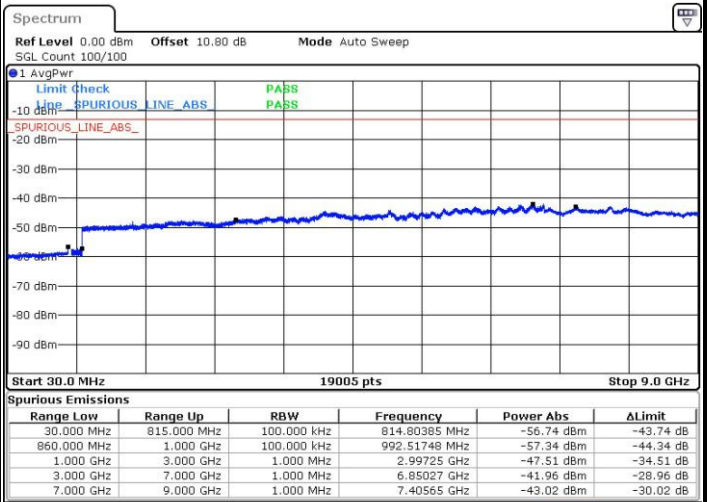
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 8 JAN 2017 23:09:30

Lowest Channel / 16QAM



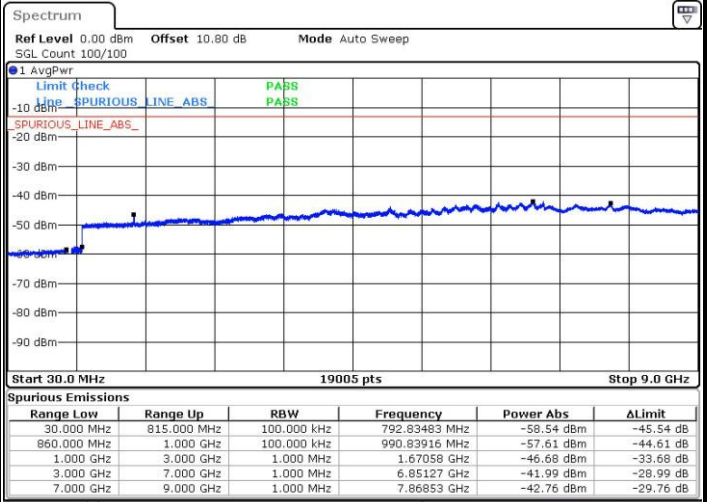
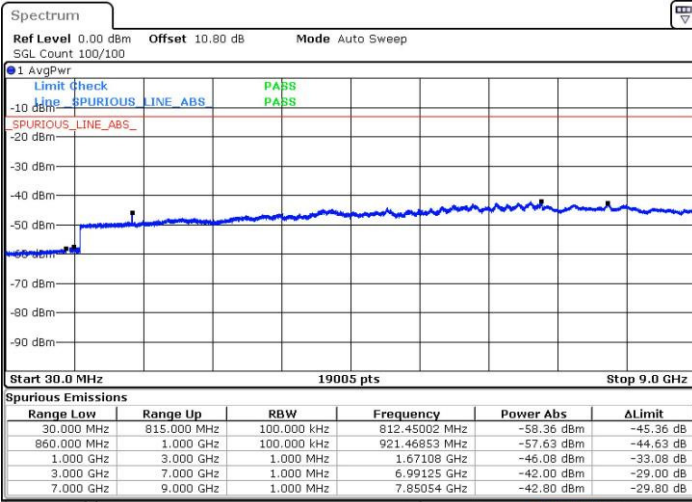
Date: 8 JAN 2017 23:10:24



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

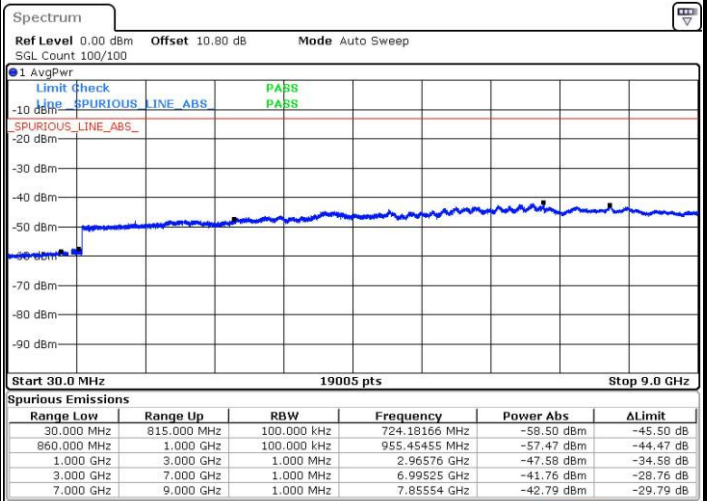
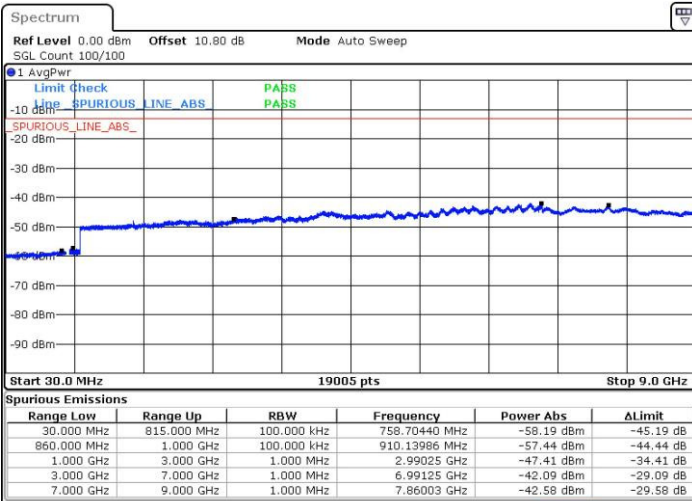


Date: 8 JAN 2017 23:12:00

Date: 8 JAN 2017 23:12:54

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8 JAN 2017 23:21:06

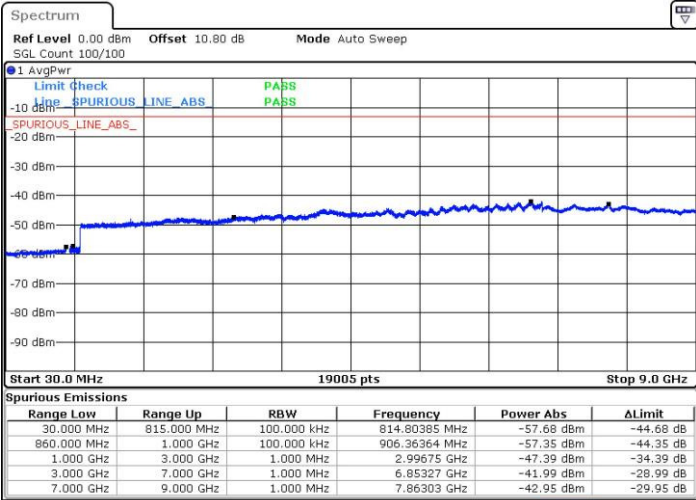
Date: 8 JAN 2017 23:22:00



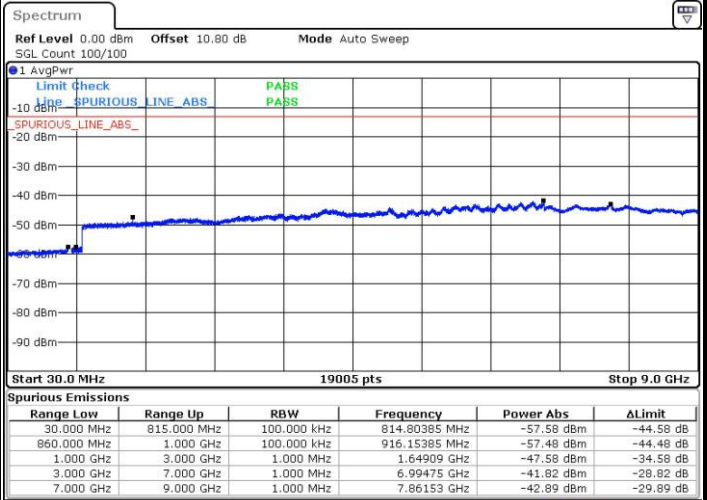
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



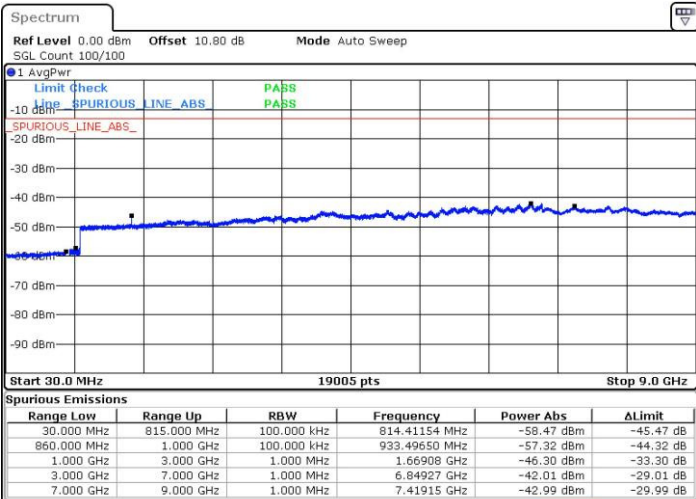
Date: 8 JAN 2017 23:30:13



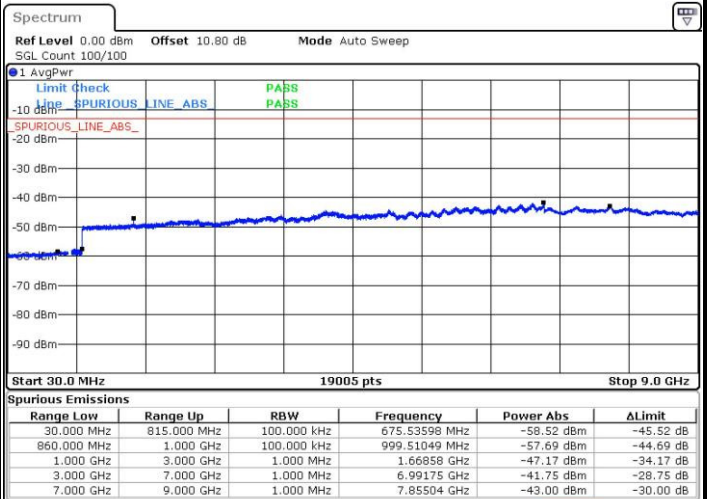
Date: 8 JAN 2017 23:31:07

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 8 JAN 2017 23:33:23

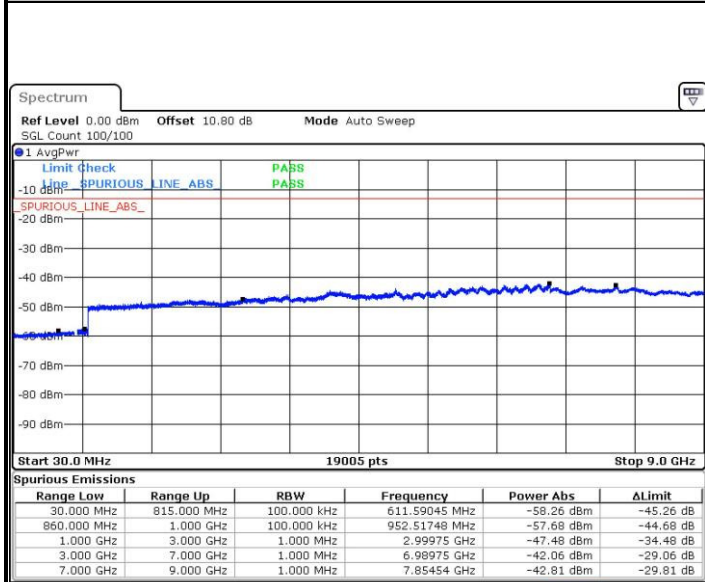


Date: 8 JAN 2017 23:34:17



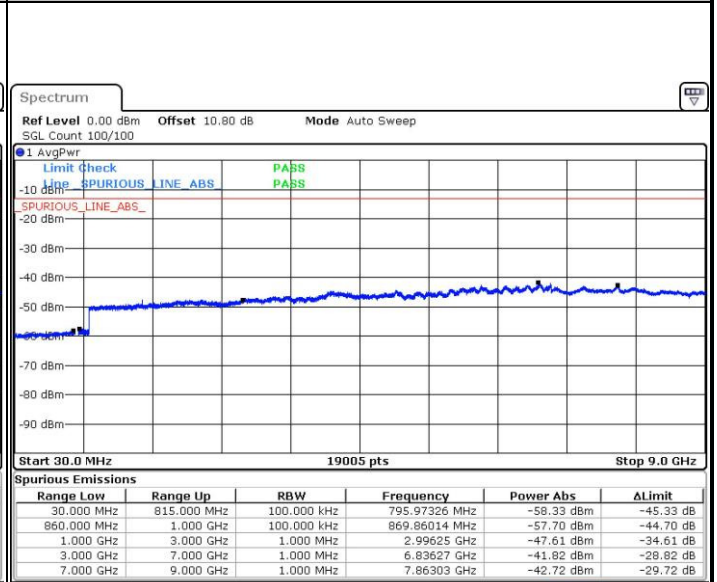
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 8 JAN 2017 23:42:30

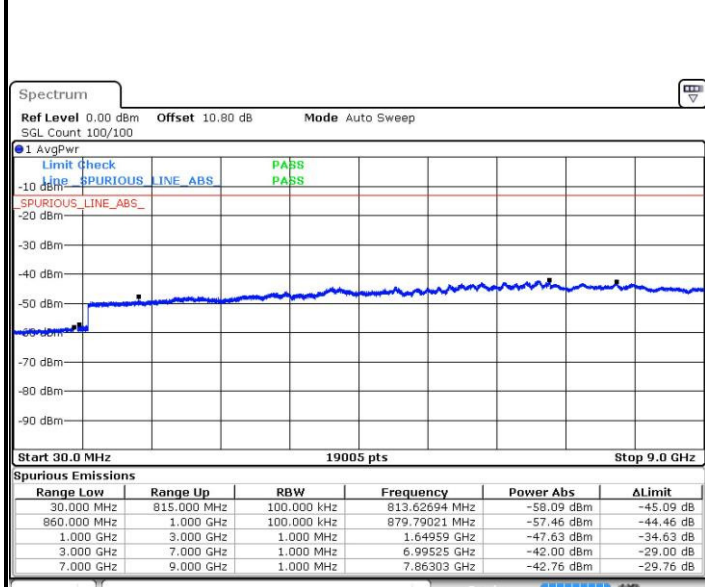
Highest Channel / 16QAM



Date: 8 JAN 2017 23:43:24

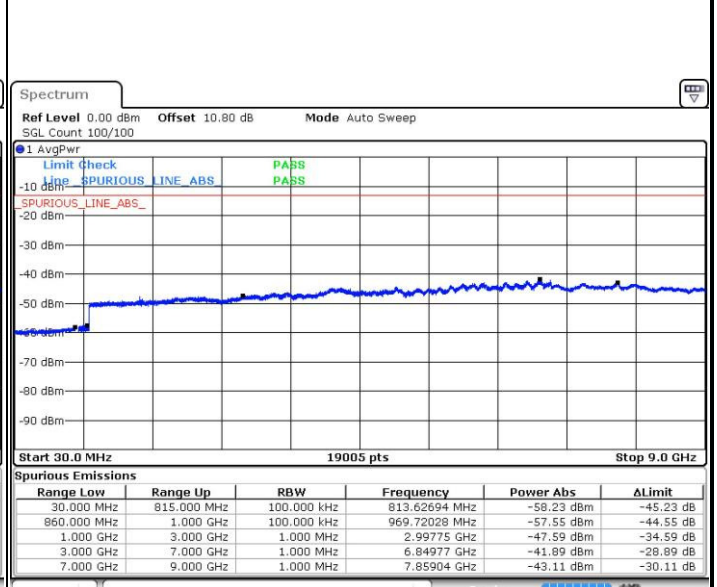
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 8 JAN 2017 23:51:36

Lowest Channel / 16QAM

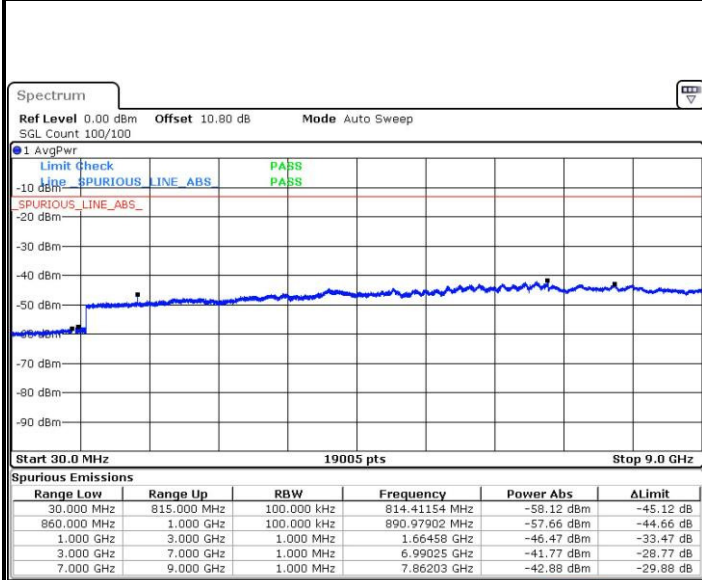


Date: 8 JAN 2017 23:52:30



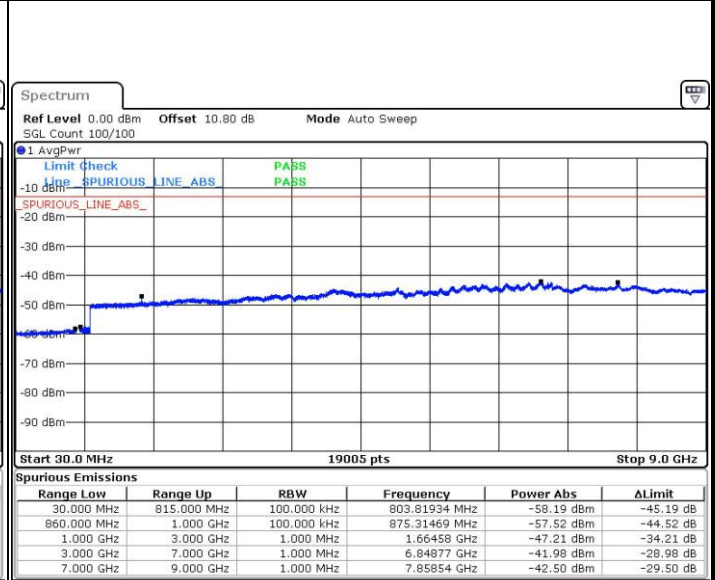
LTE Band 5 / 10MHz

Middle Channel / QPSK



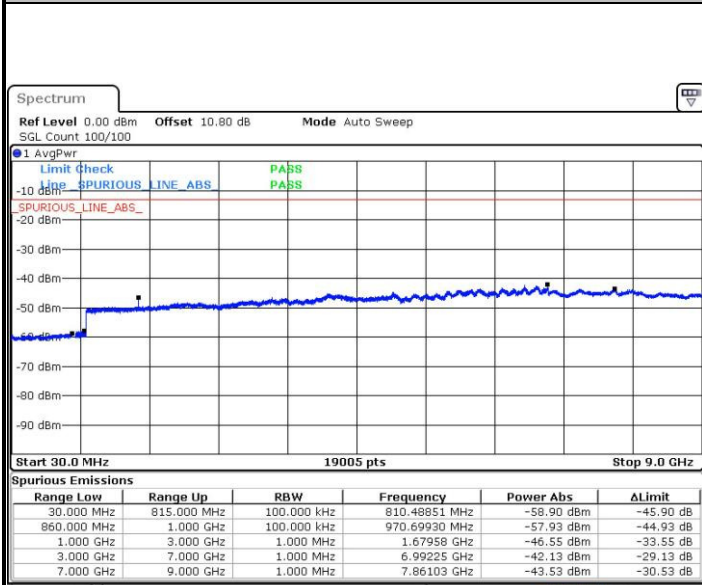
Date: 8 JAN 2017 23:54:05

Middle Channel / 16QAM



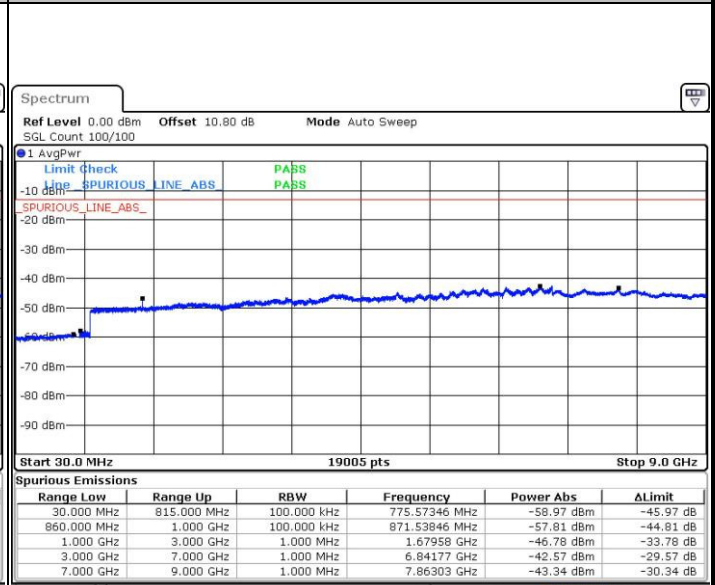
Date: 8 JAN 2017 23:54:59

Highest Channel / QPSK



Date: 9 JAN 2017 09:06:12

Highest Channel / 16QAM



Date: 9 JAN 2017 09:07:06



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	0.0010	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0078	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

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 7

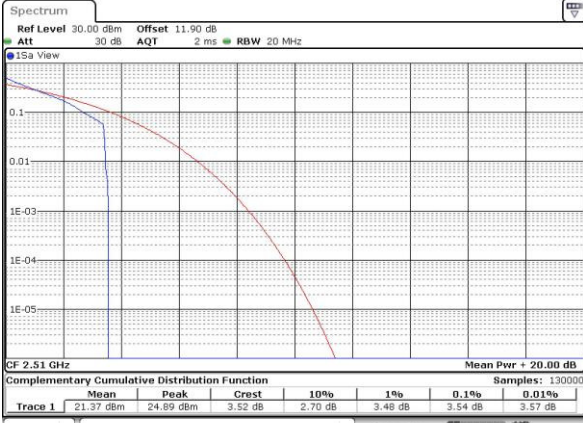
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.67	4.7	5.71	PASS
Middle CH	4.06	4.75	5.25	5.86	
Highest CH	3.48	4.7	4.06	5.88	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 11 JAN 2017 14:30:02

Lowest Channel / Full RB



Date: 11 JAN 2017 14:30:12

Middle Channel / 1RB



Date: 11 JAN 2017 14:30:28

Middle Channel / Full RB



Date: 11 JAN 2017 14:30:39

Highest Channel / 1RB



Date: 11 JAN 2017 14:30:50

Highest Channel / Full RB

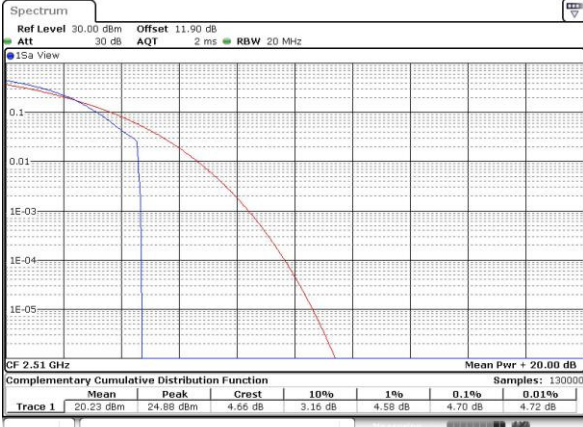


Date: 11 JAN 2017 14:31:00



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



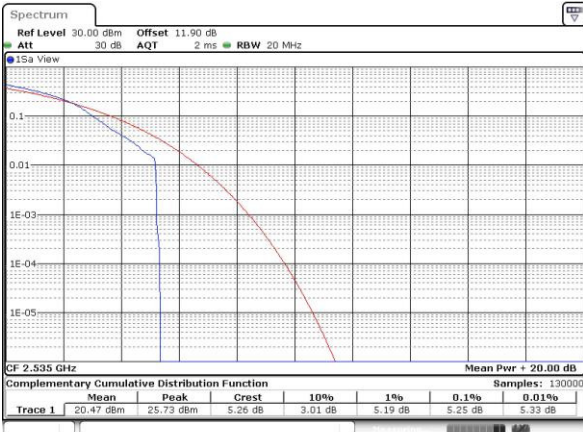
Date: 11 JAN 2017 14:17:28

Lowest Channel / Full RB



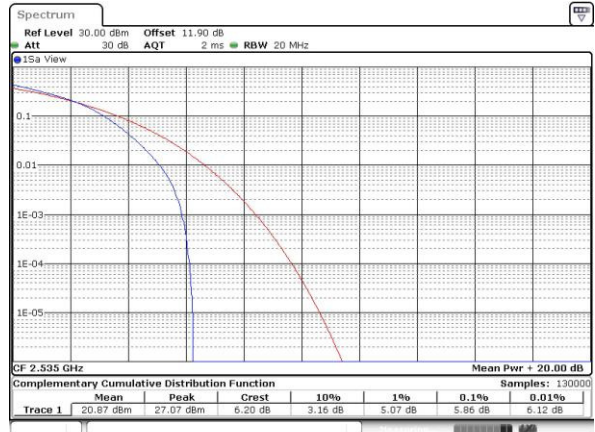
Date: 11 JAN 2017 14:17:37

Middle Channel / 1RB



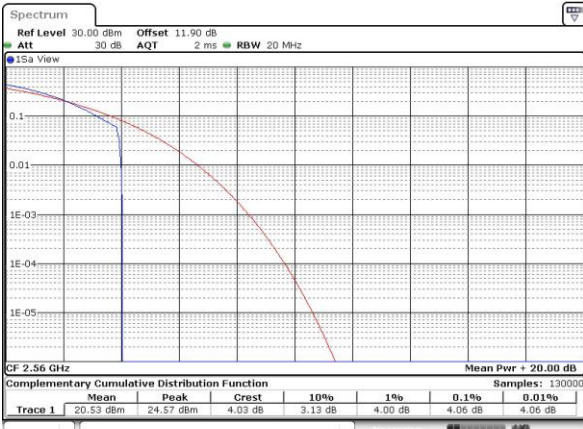
Date: 11 JAN 2017 14:23:08

Middle Channel / Full RB



Date: 11 JAN 2017 14:24:05

Highest Channel / 1RB



Date: 11 JAN 2017 14:29:39

Highest Channel / Full RB



Date: 11 JAN 2017 14:29:49



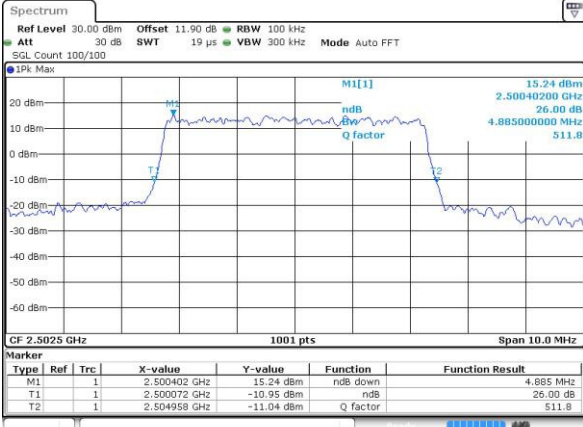
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.885	4.855	9.71	9.79	14.655	14.206	20.38	20.1
Middle CH	-	-	-	-	4.945	4.865	9.81	9.73	14.356	14.595	20.18	20.22
Highest CH	-	-	-	-	4.945	4.855	9.93	9.87	14.565	14.625	20.42	20.1



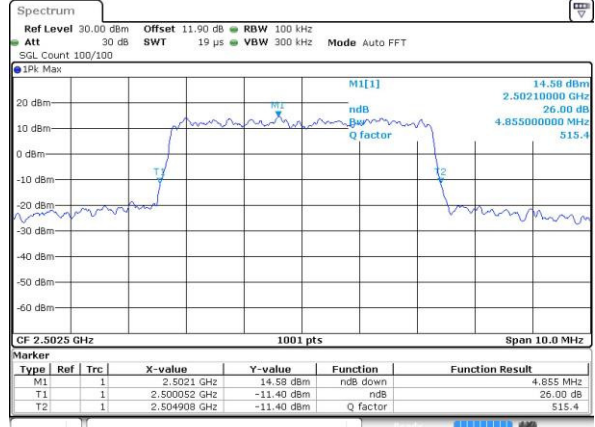
LTE Band 7

Lowest Channel / 5MHz / QPSK



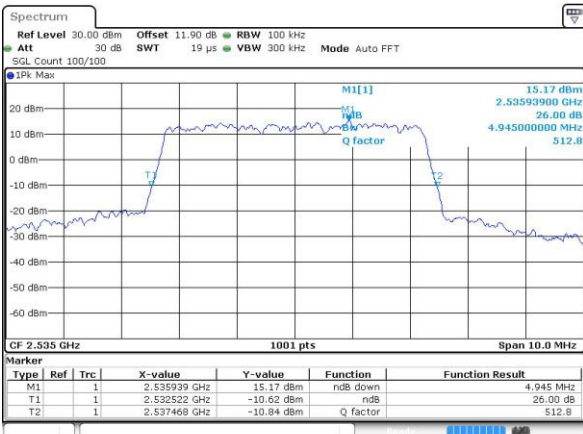
Date: 11 JAN 2017 11:00:13

Lowest Channel / 5MHz / 16QAM



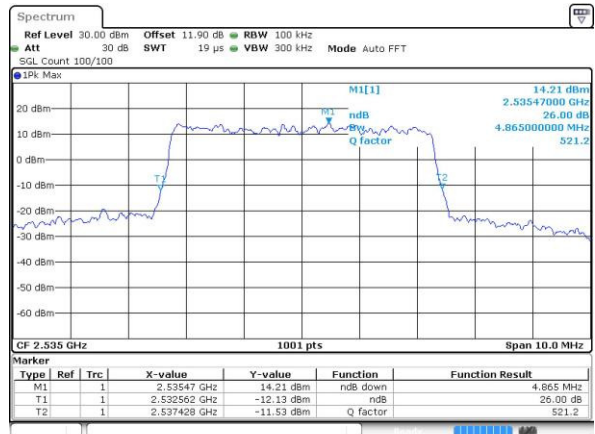
Date: 11 JAN 2017 11:00:23

Middle Channel / 5MHz / QPSK



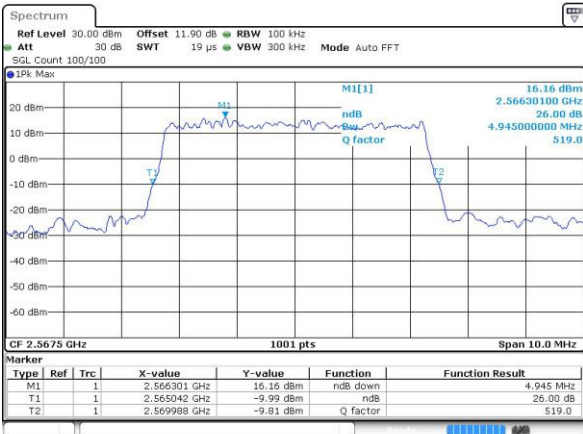
Date: 11 JAN 2017 11:46:14

Middle Channel / 5MHz / 16QAM



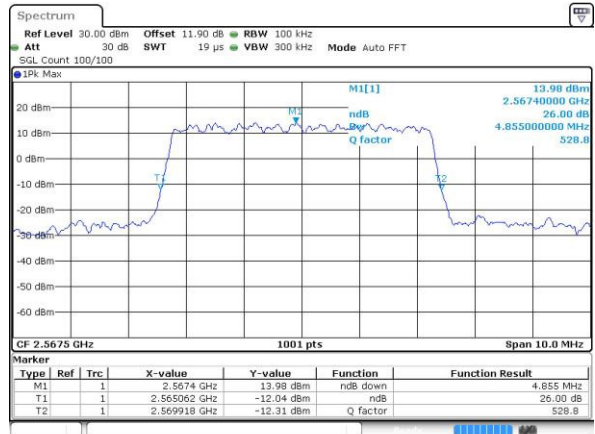
Date: 11 JAN 2017 11:46:25

Highest Channel / 5MHz / QPSK



Date: 11 JAN 2017 11:48:43

Highest Channel / 5MHz / 16QAM

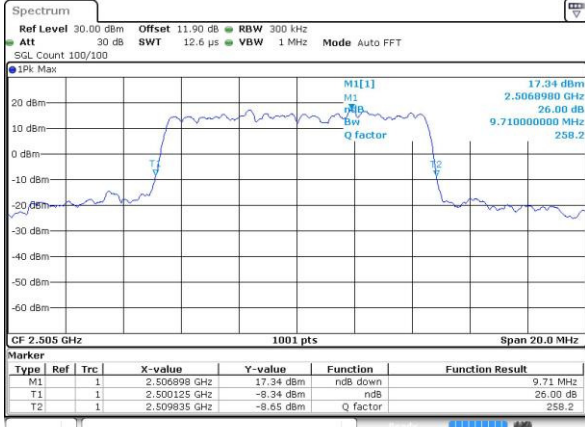


Date: 11 JAN 2017 11:48:54



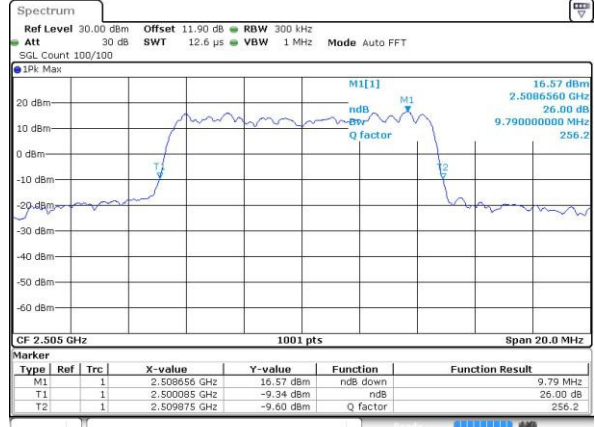
LTE Band 7

Lowest Channel / 10MHz / QPSK



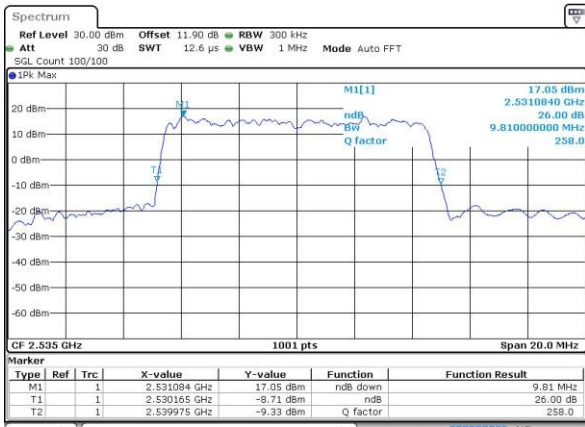
Date: 11 JAN 2017 11:55:52

Lowest Channel / 10MHz / 16QAM



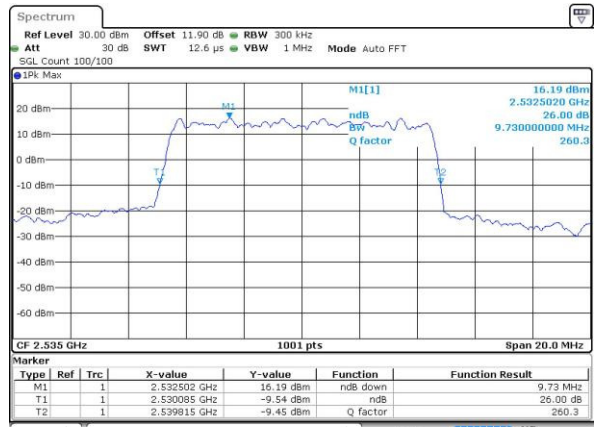
Date: 11 JAN 2017 11:56:02

Middle Channel / 10MHz / QPSK



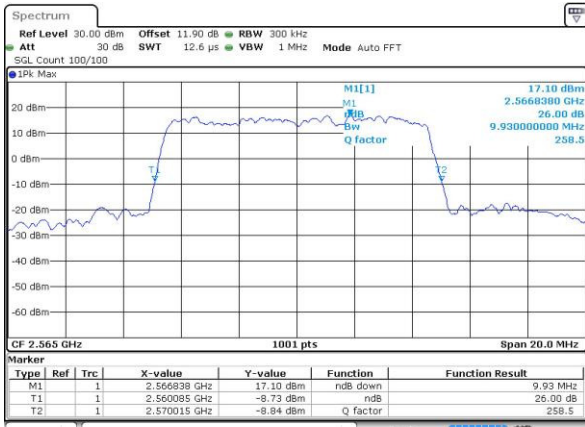
Date: 11 JAN 2017 12:02:59

Middle Channel / 10MHz / 16QAM



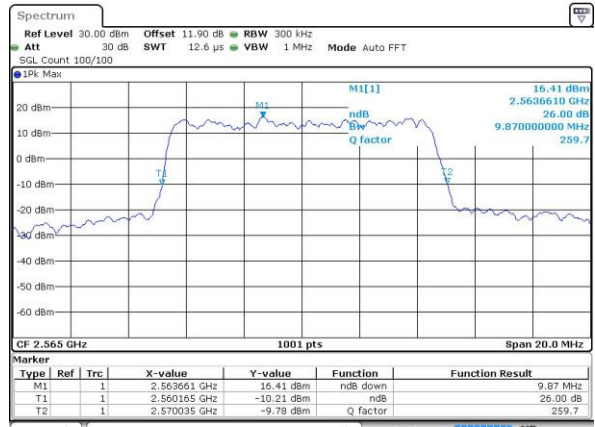
Date: 11 JAN 2017 12:03:10

Highest Channel / 10MHz / QPSK



Date: 11 JAN 2017 12:05:28

Highest Channel / 10MHz / 16QAM

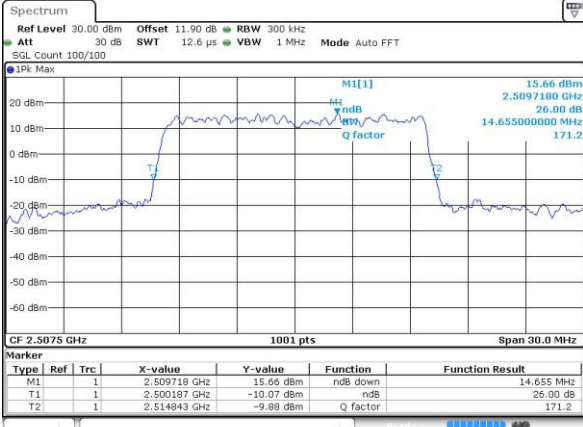


Date: 11 JAN 2017 12:05:39



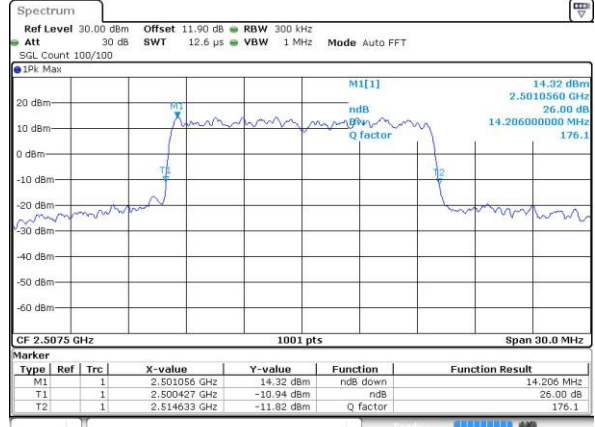
LTE Band 7

Lowest Channel / 15MHz / QPSK



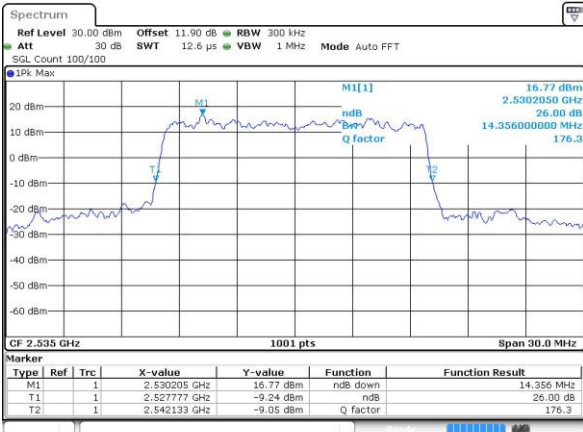
Date: 11, JAN 2017 13:42:11

Lowest Channel / 15MHz / 16QAM



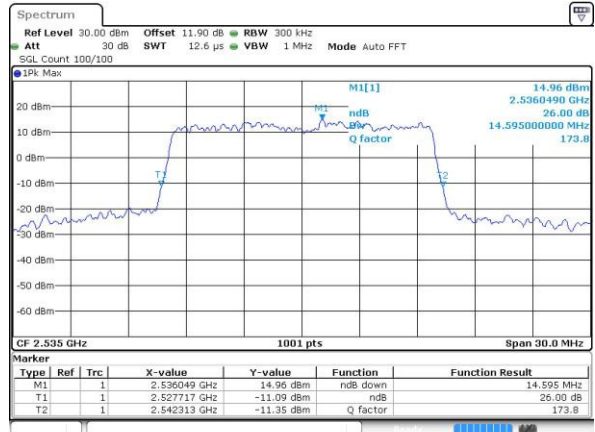
Date: 11, JAN 2017 13:42:21

Middle Channel / 15MHz / QPSK



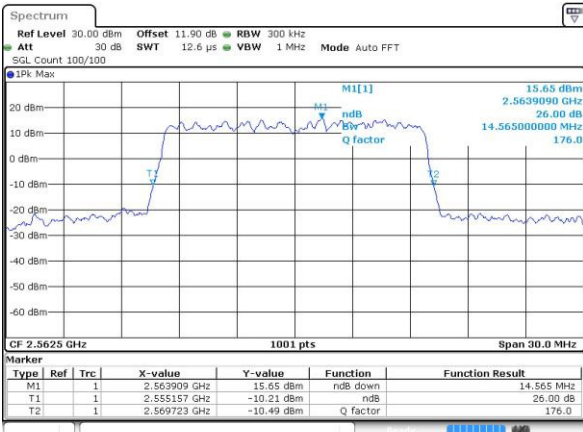
Date: 11, JAN 2017 13:49:20

Middle Channel / 15MHz / 16QAM



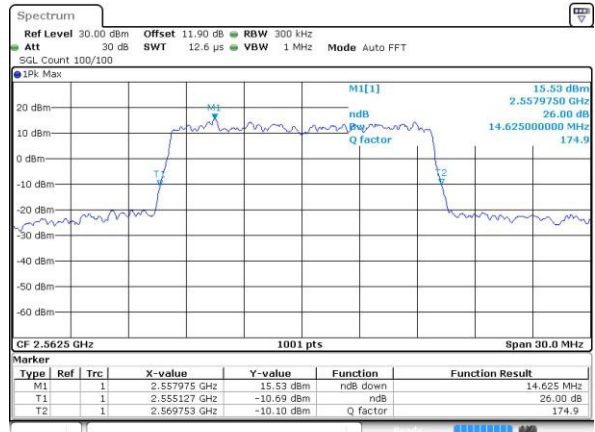
Date: 11, JAN 2017 13:49:31

Highest Channel / 15MHz / QPSK



Date: 11, JAN 2017 13:51:50

Highest Channel / 15MHz / 16QAM

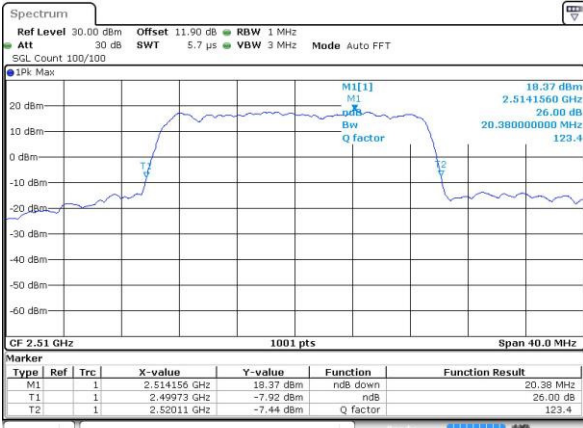


Date: 11, JAN 2017 13:52:01



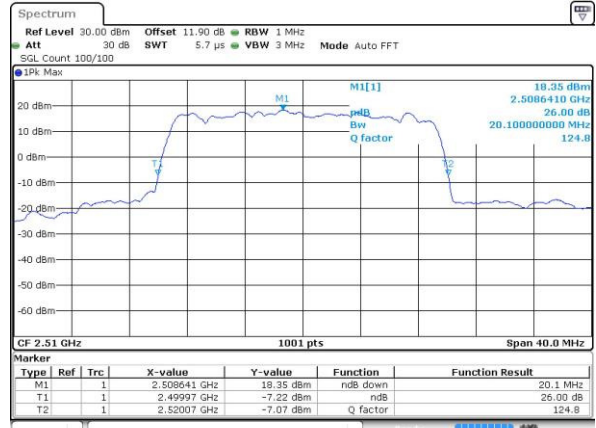
LTE Band 7

Lowest Channel / 20MHz / QPSK



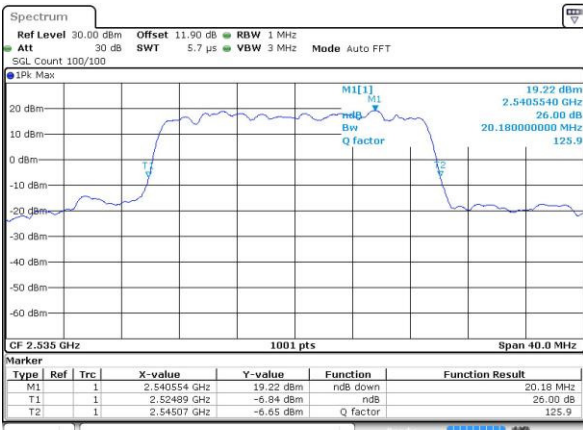
Date: 11 JAN 2017 13:59:00

Lowest Channel / 20MHz / 16QAM



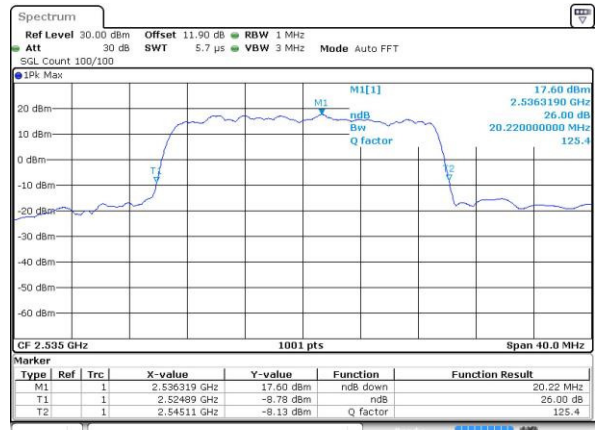
Date: 11 JAN 2017 13:59:10

Middle Channel / 20MHz / QPSK



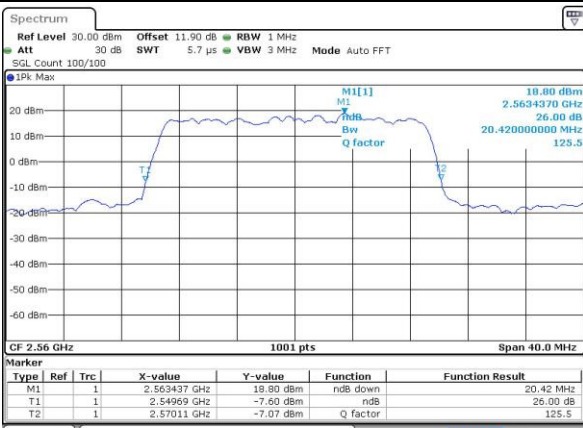
Date: 11 JAN 2017 14:06:08

Middle Channel / 20MHz / 16QAM



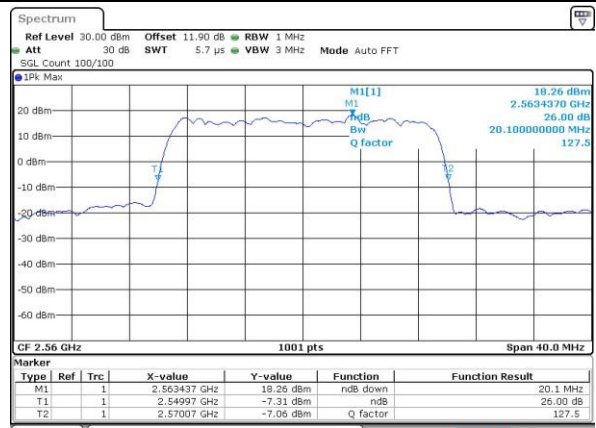
Date: 11 JAN 2017 14:06:18

Highest Channel / 20MHz / QPSK



Date: 11 JAN 2017 14:08:37

Highest Channel / 20MHz / 16QAM



Date: 11 JAN 2017 14:10:26



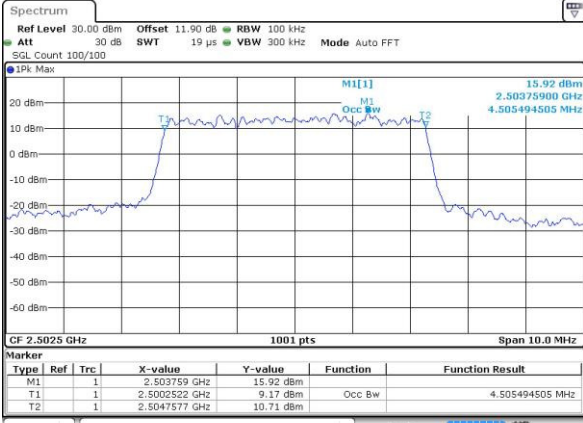
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.49	9.11	9.01	13.43	13.46	18.38	18.38
Middle CH	-	-	-	-	4.49	4.5	9.07	8.99	13.46	13.43	18.34	18.34
Highest CH	-	-	-	-	4.49	4.5	9.09	9.01	13.43	13.46	18.5	18.34



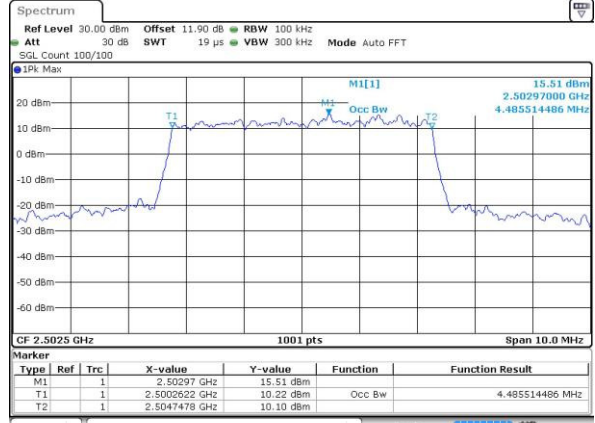
LTE Band 7

Lowest Channel / 5MHz / QPSK



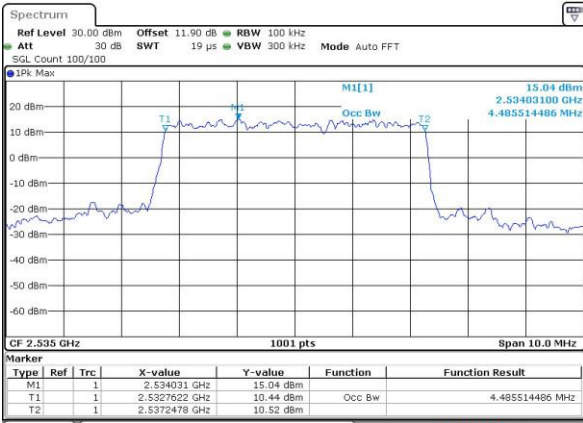
Date: 11 JAN 2017 10:59:52

Lowest Channel / 5MHz / 16QAM



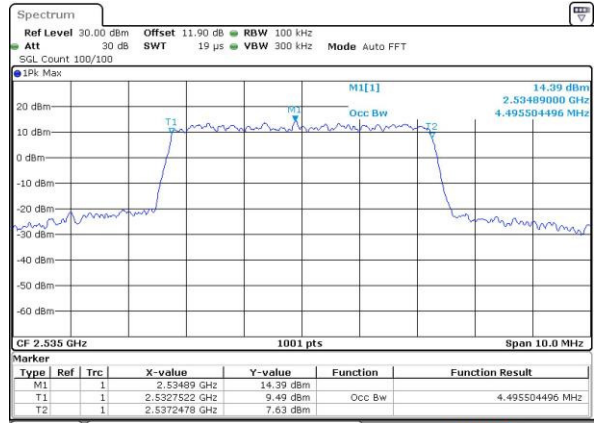
Date: 11 JAN 2017 11:00:02

Middle Channel / 5MHz / QPSK



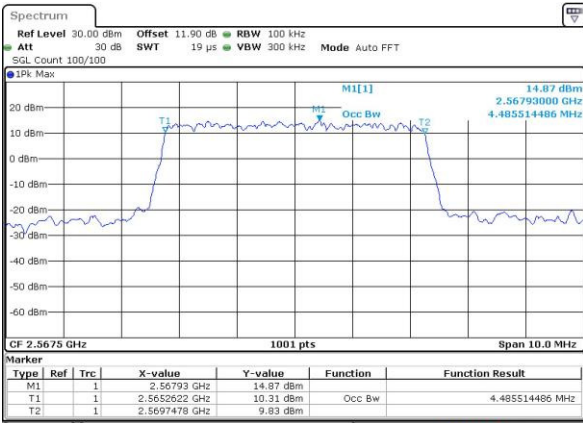
Date: 11 JAN 2017 11:45:53

Middle Channel / 5MHz / 16QAM



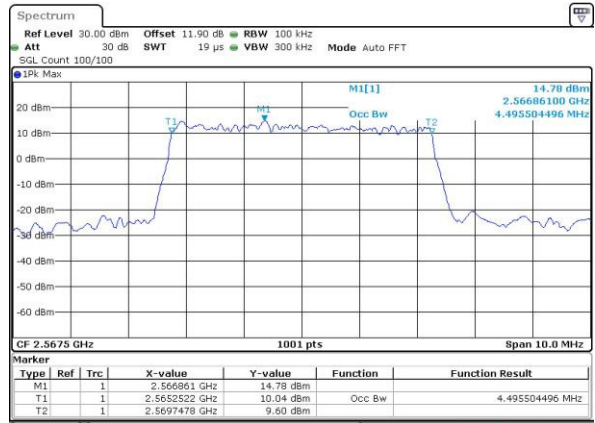
Date: 11 JAN 2017 11:46:04

Highest Channel / 5MHz / QPSK



Date: 11 JAN 2017 11:48:23

Highest Channel / 5MHz / 16QAM

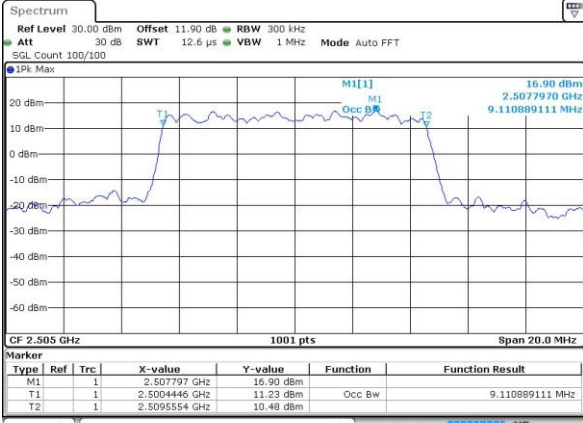


Date: 11 JAN 2017 11:48:33



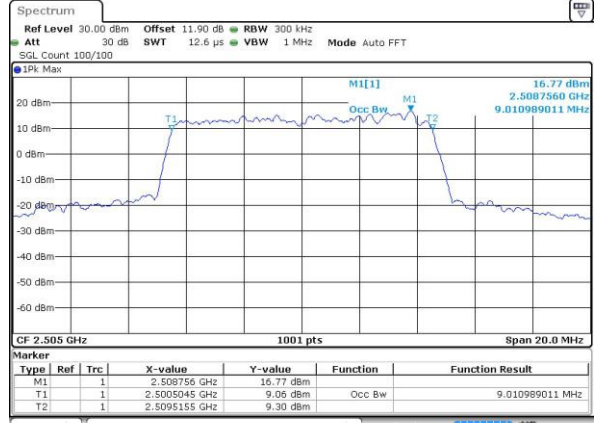
LTE Band 7

Lowest Channel / 10MHz / QPSK



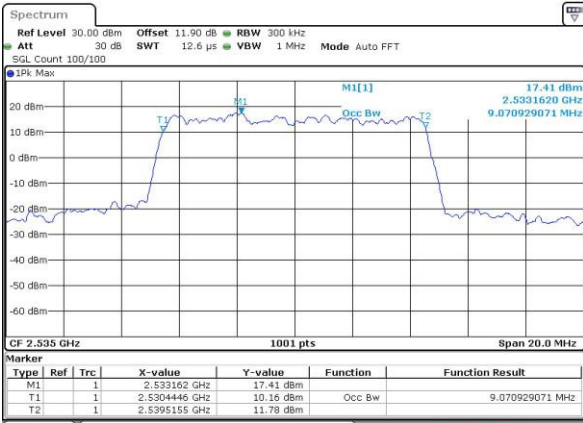
Date: 11 JAN 2017 11:55:31

Lowest Channel / 10MHz / 16QAM



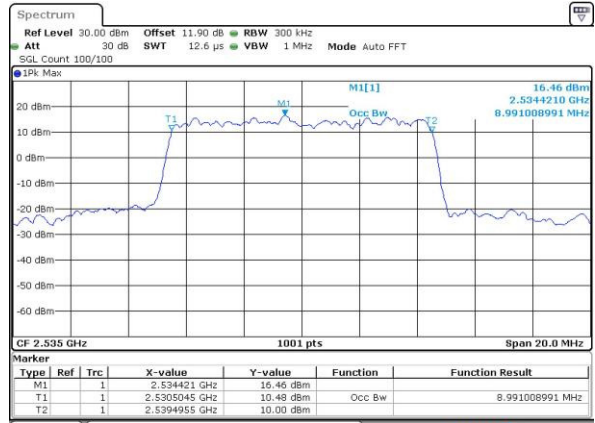
Date: 11 JAN 2017 11:55:42

Middle Channel / 10MHz / QPSK



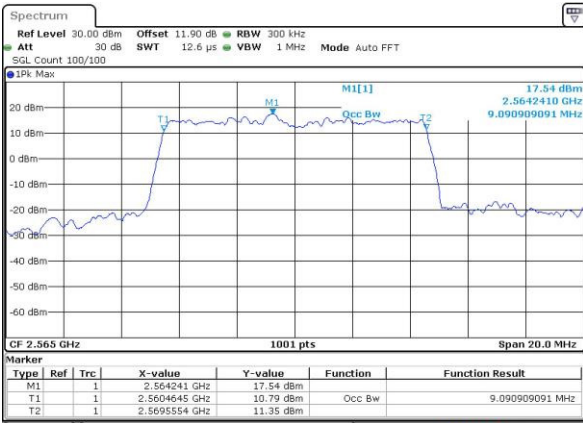
Date: 11 JAN 2017 12:02:39

Middle Channel / 10MHz / 16QAM



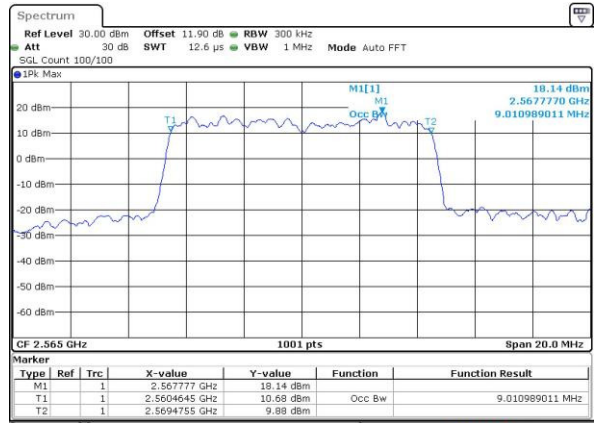
Date: 11 JAN 2017 12:02:49

Highest Channel / 10MHz / QPSK



Date: 11 JAN 2017 12:05:08

Highest Channel / 10MHz / 16QAM



Date: 11 JAN 2017 12:05:18