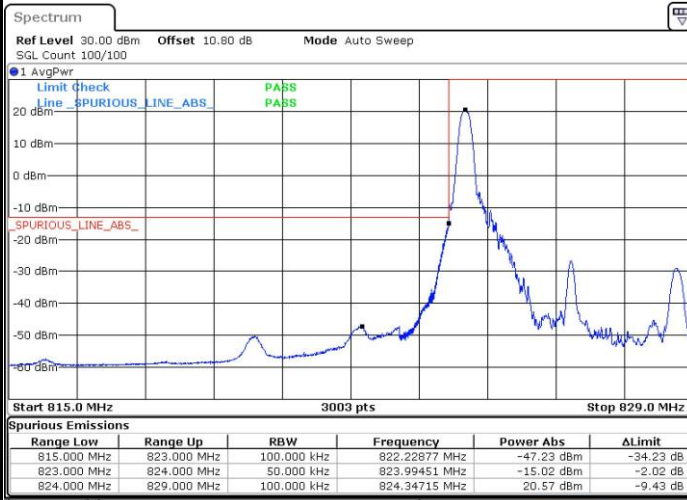




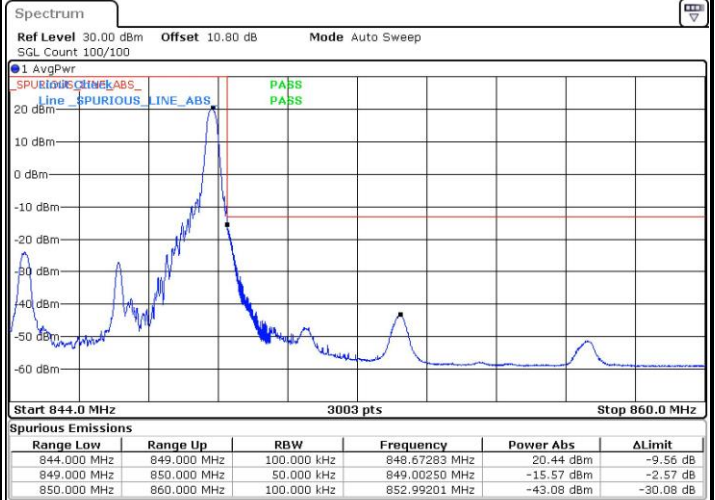
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



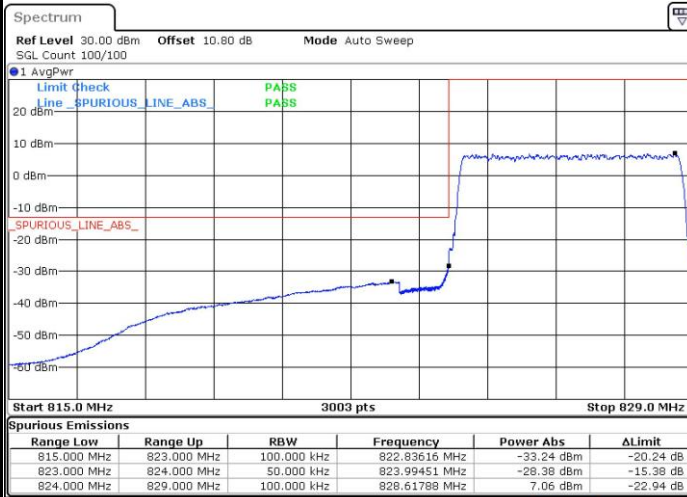
Date: 6 FEB 2017 14:28:30

Highest Band Edge / 1 RB



Date: 6 FEB 2017 14:40:06

Lowest Band Edge / Full RB



Date: 6 FEB 2017 14:31:48

Highest Band Edge / Full RB

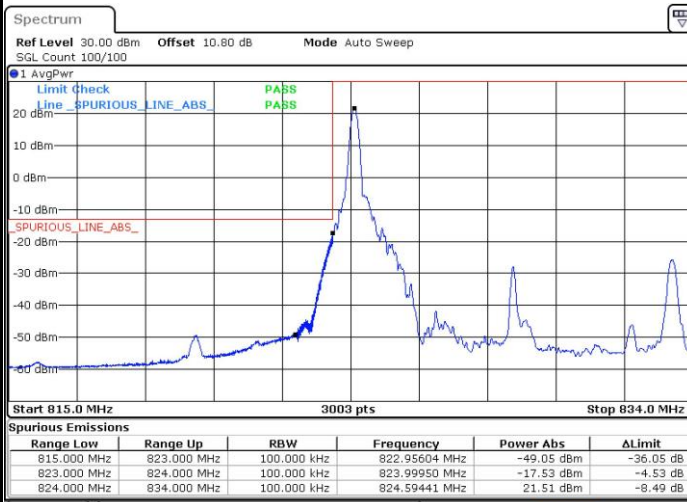


Date: 6 FEB 2017 14:43:25



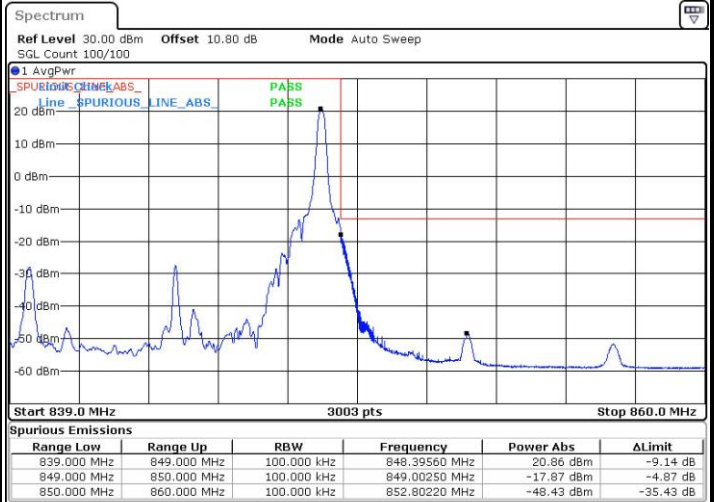
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



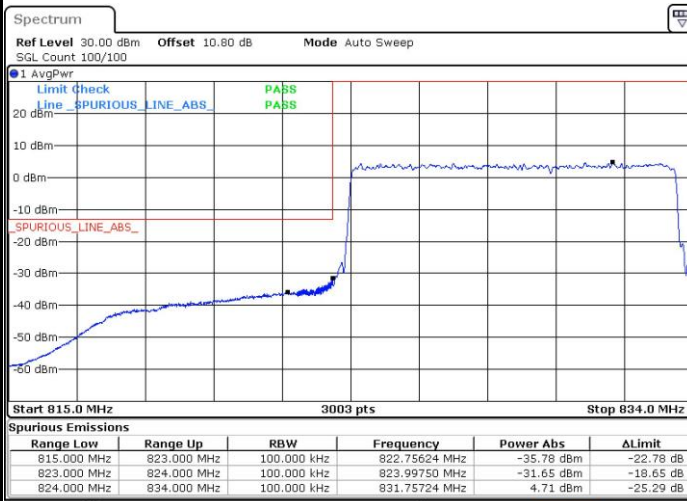
Date: 6 FEB 2017 14:47:34

Highest Band Edge / 1 RB



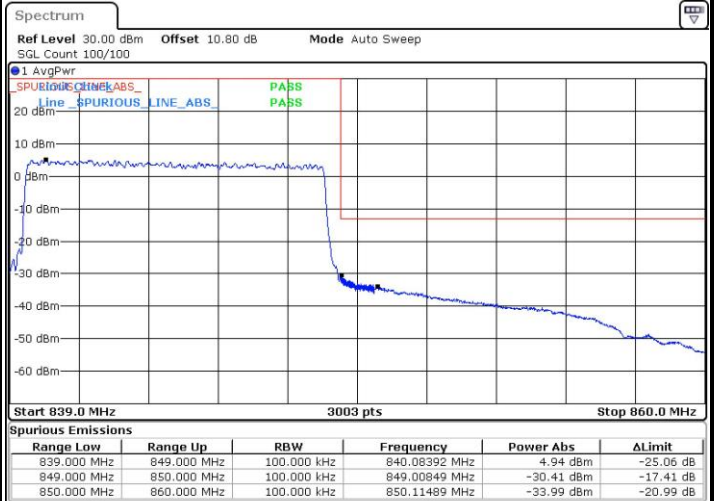
Date: 6 FEB 2017 14:59:11

Lowest Band Edge / Full RB



Date: 6 FEB 2017 14:50:52

Highest Band Edge / Full RB

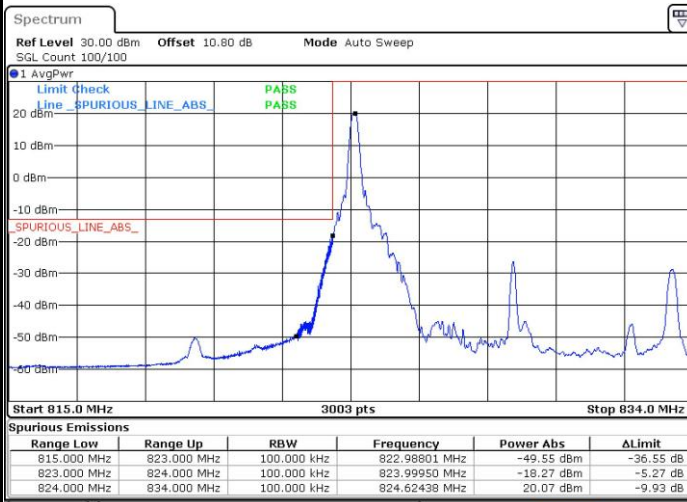


Date: 6 FEB 2017 15:02:29



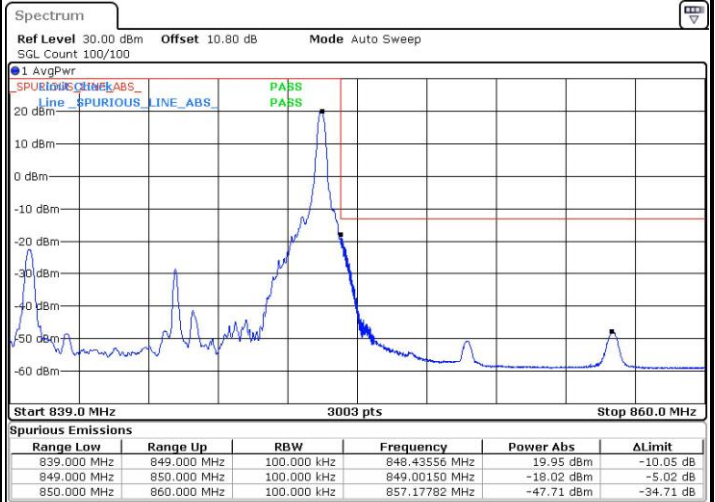
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



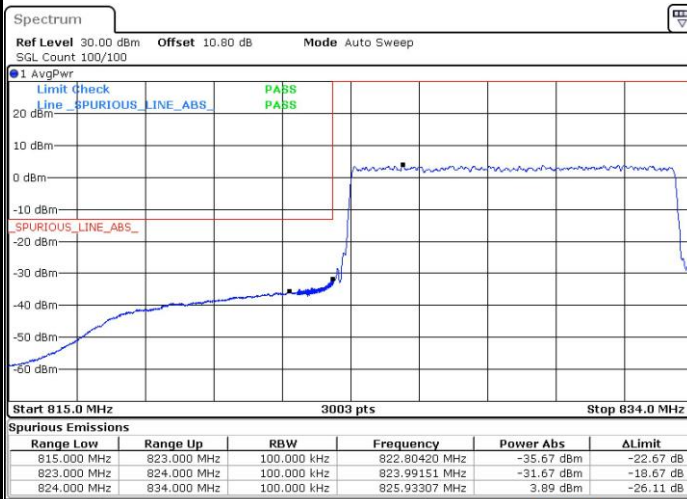
Date: 6 FEB 2017 14:49:13

Highest Band Edge / 1 RB



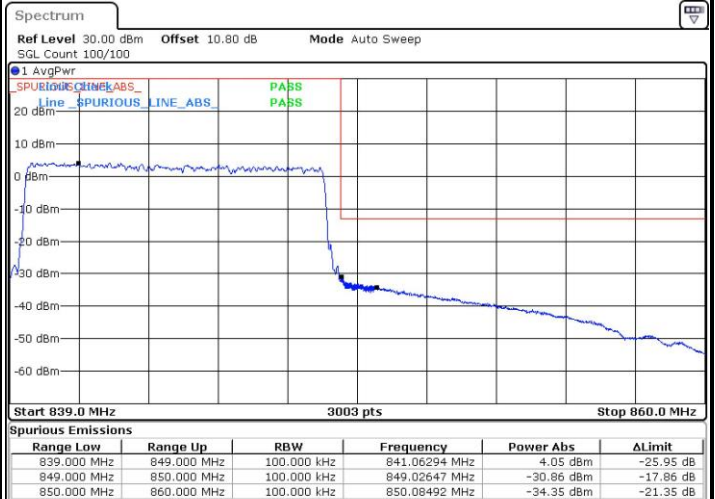
Date: 6 FEB 2017 15:00:50

Lowest Band Edge / Full RB



Date: 6 FEB 2017 14:52:31

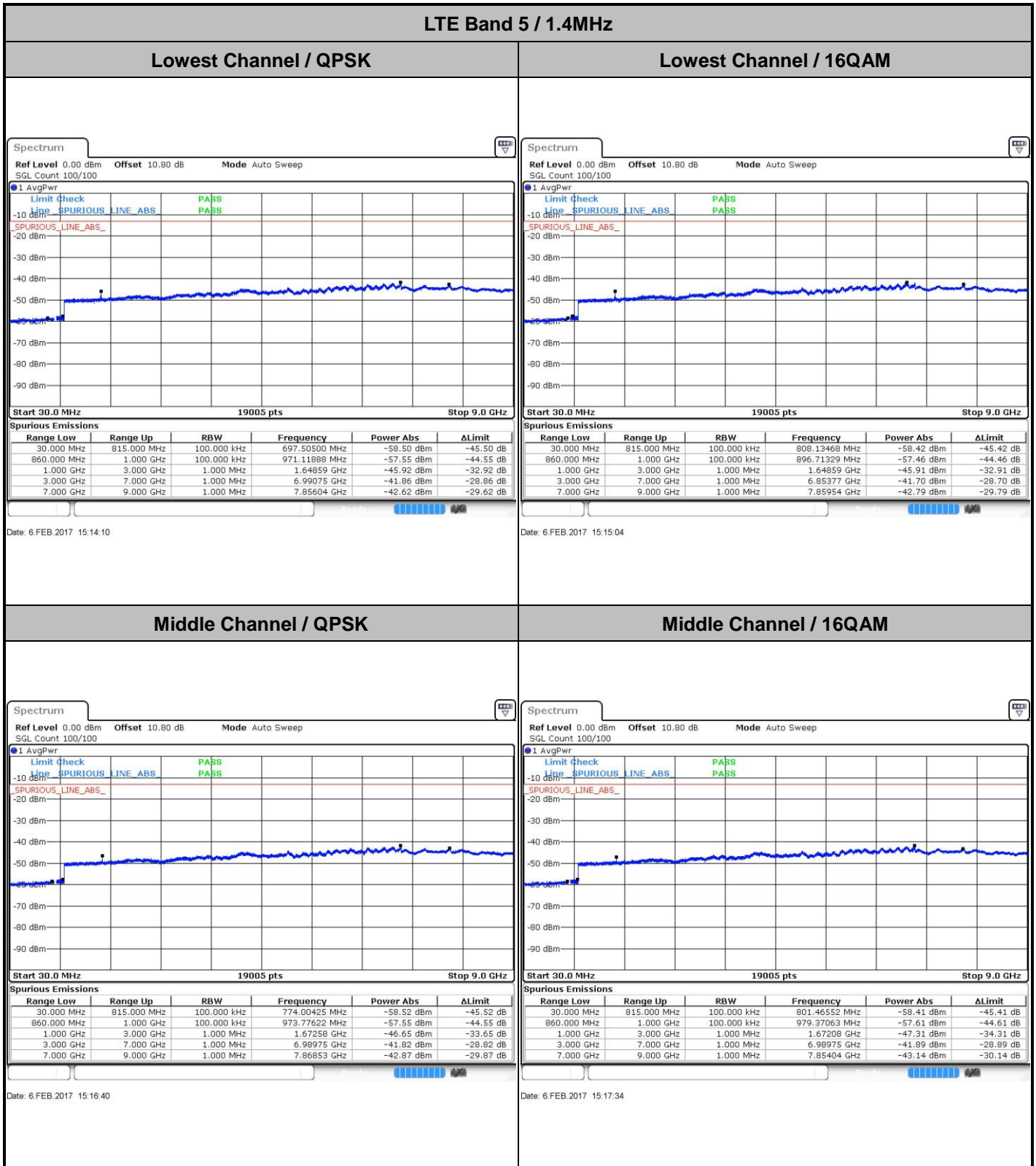
Highest Band Edge / Full RB



Date: 6 FEB 2017 15:04:09



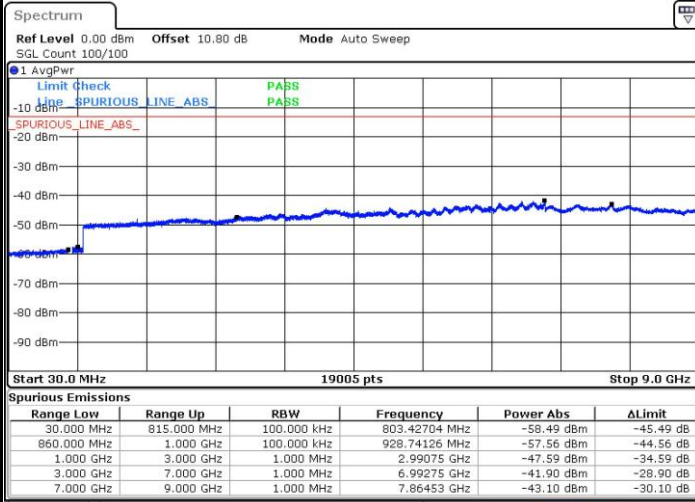
# Conducted Spurious Emission





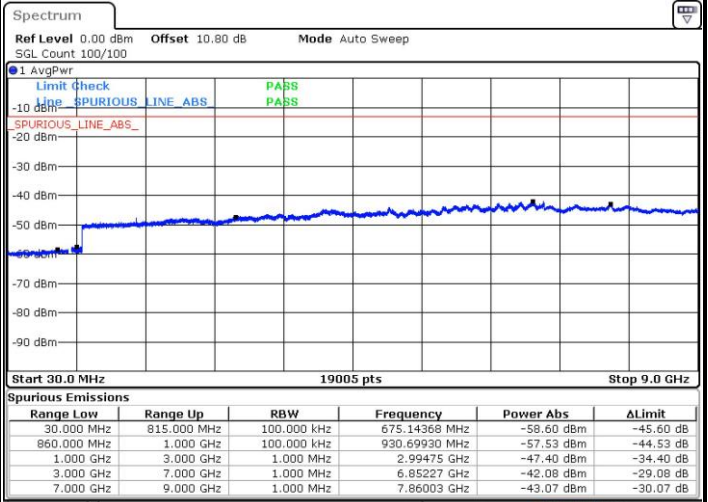
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 6 FEB 2017 15:25:46

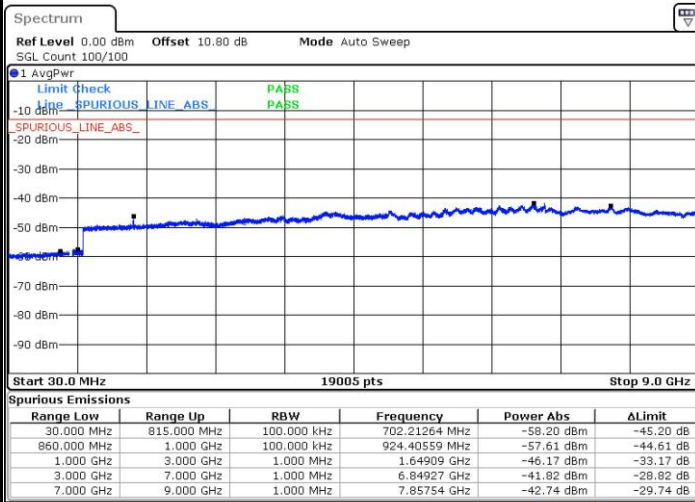
Highest Channel / 16QAM



Date: 6 FEB 2017 15:26:40

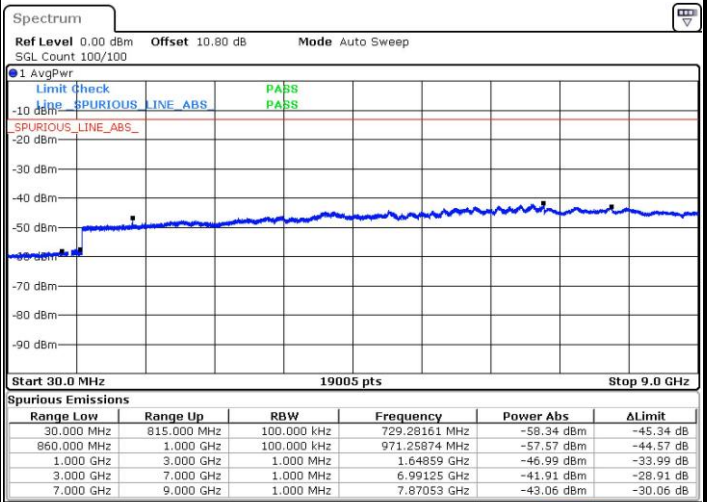
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 6 FEB 2017 14:12:00

Lowest Channel / 16QAM



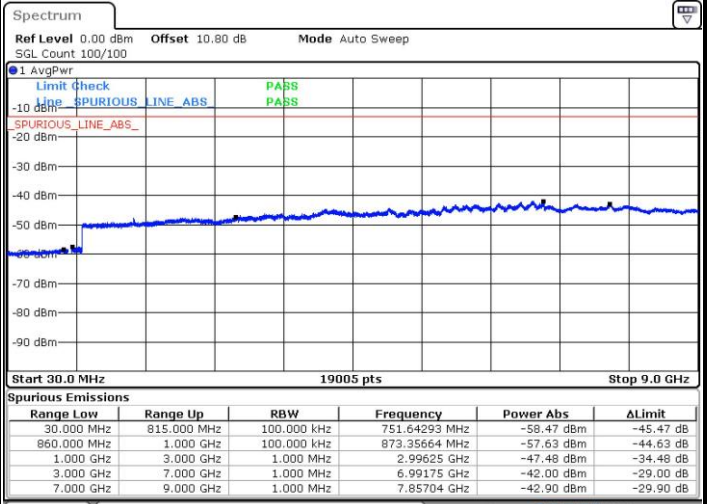
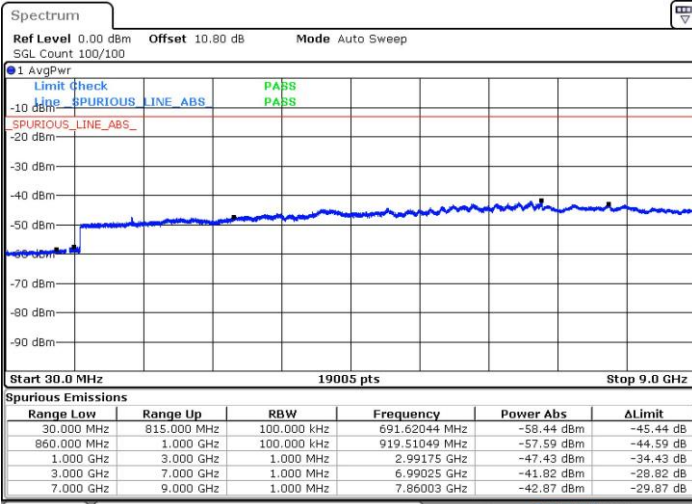
Date: 6 FEB 2017 14:12:54



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

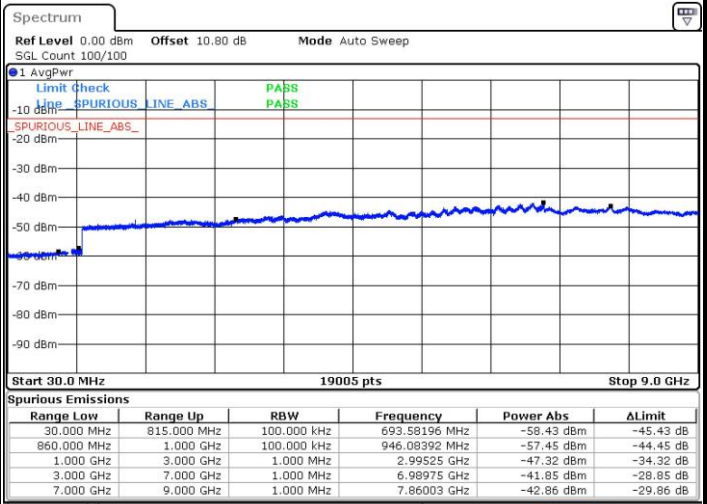
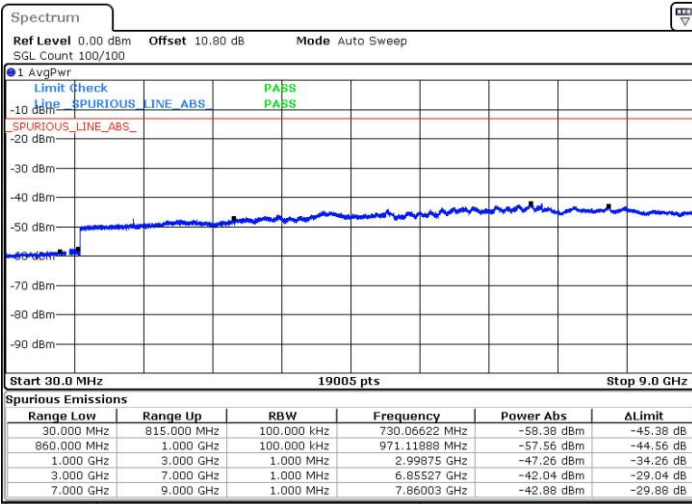


Date: 6 FEB 2017 14:14:30

Date: 6 FEB 2017 14:15:24

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 FEB 2017 14:23:37

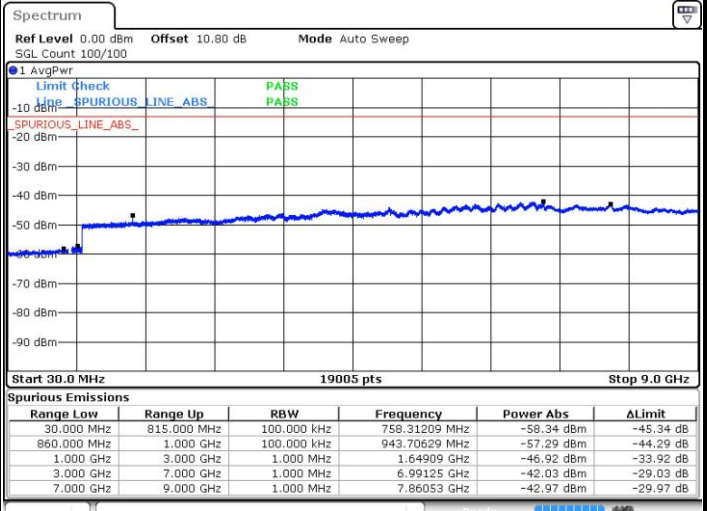
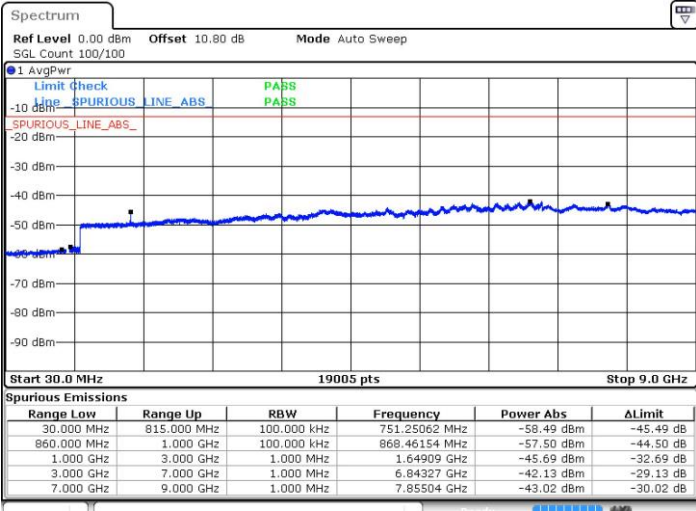
Date: 6 FEB 2017 14:24:31



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

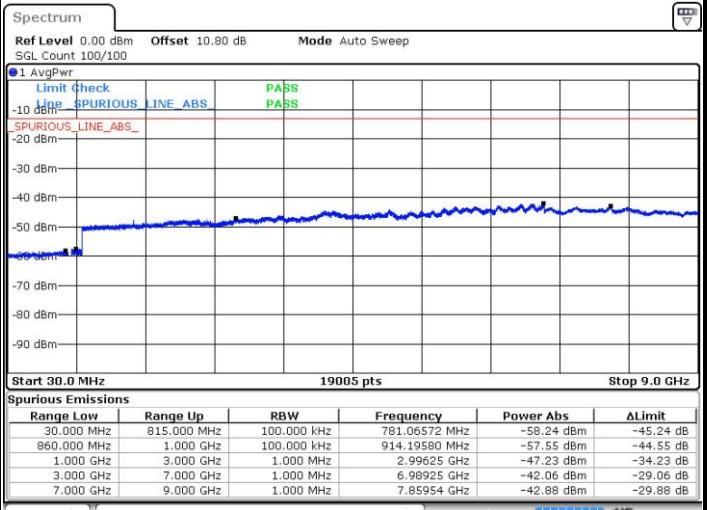
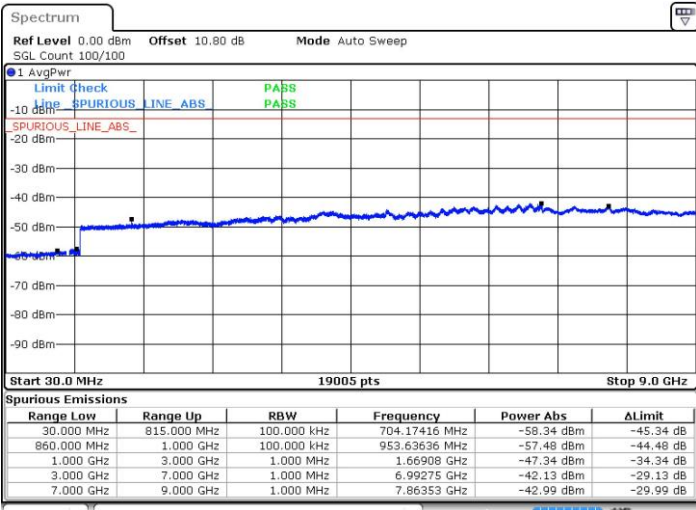


Date: 6 FEB 2017 14:32:43

Date: 6 FEB 2017 14:33:37

Middle Channel / QPSK

Middle Channel / 16QAM



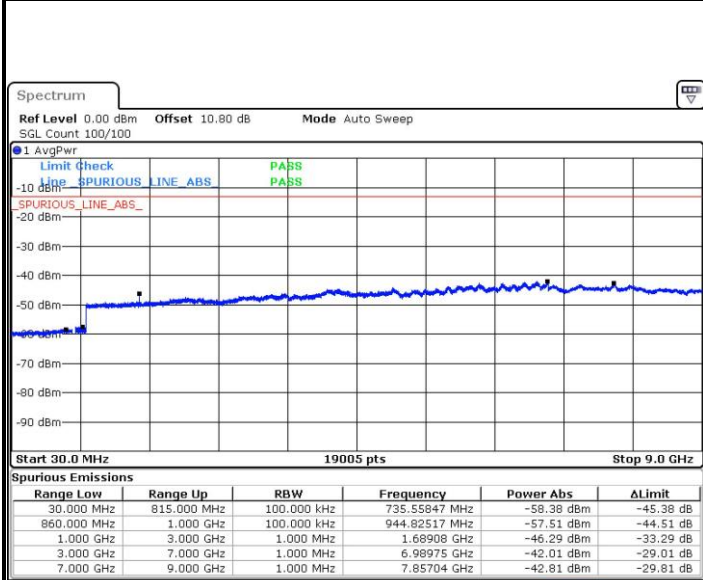
Date: 6 FEB 2017 14:35:13

Date: 6 FEB 2017 14:36:07



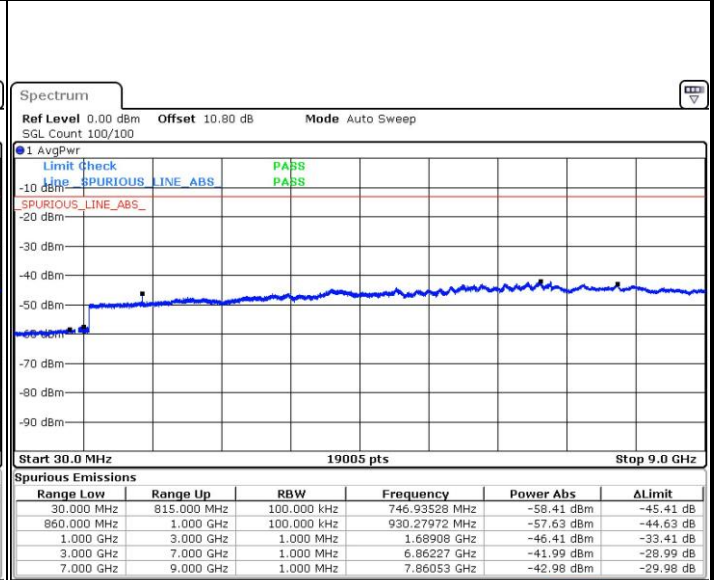
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 6 FEB 2017 14:44:19

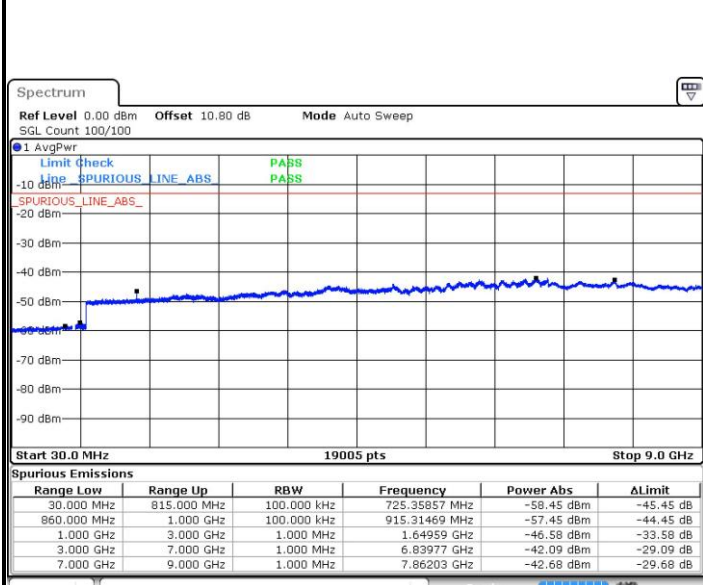
Highest Channel / 16QAM



Date: 6 FEB 2017 14:45:14

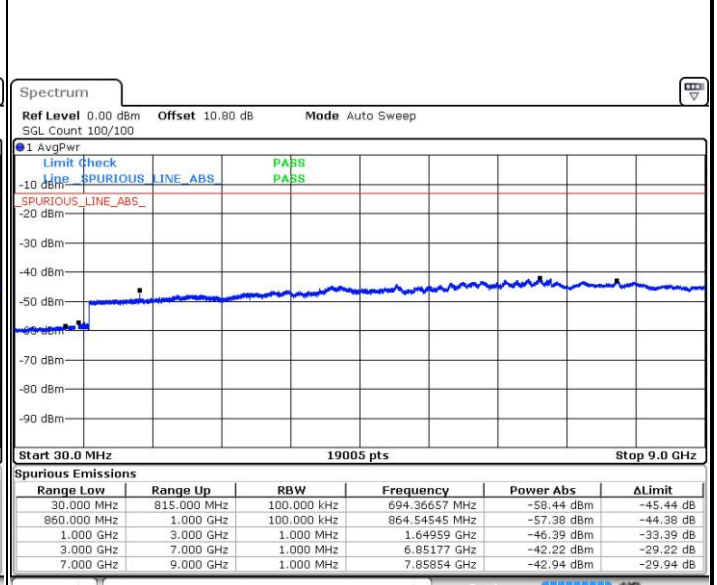
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 6 FEB 2017 14:53:26

Lowest Channel / 16QAM



Date: 6 FEB 2017 14:54:20

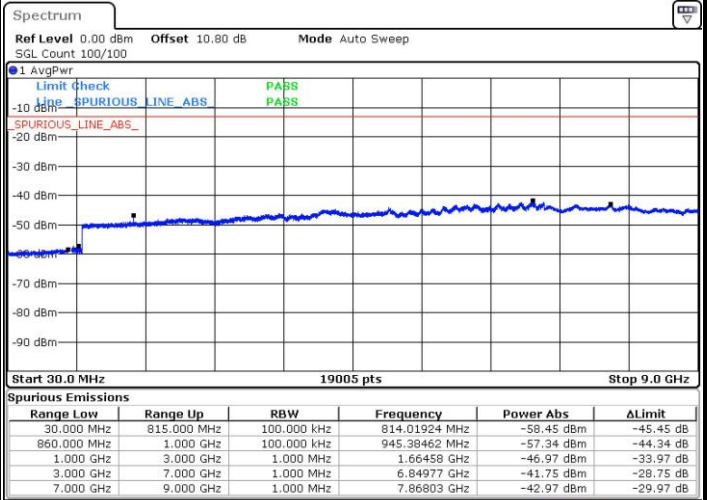
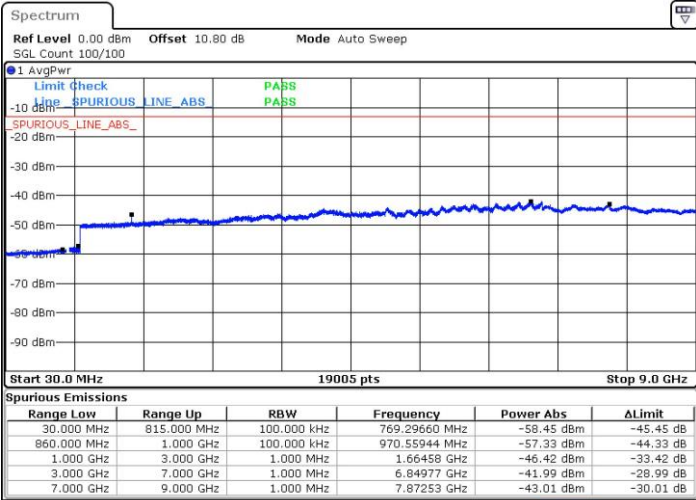




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

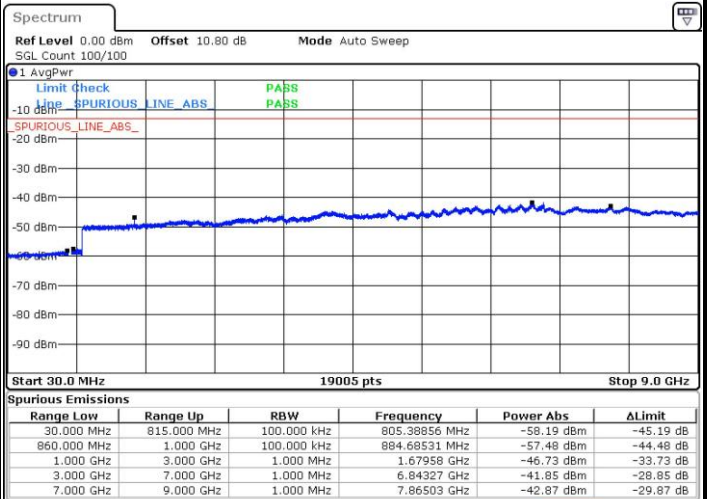
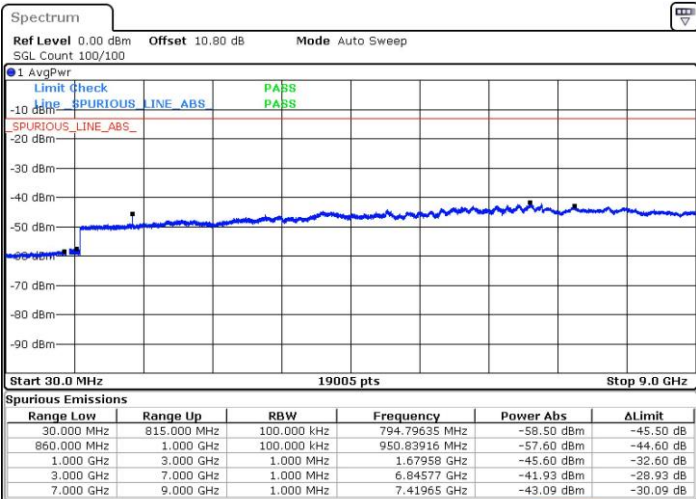


Date: 6 FEB 2017 14:55:56

Date: 6 FEB 2017 14:56:51

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 FEB 2017 15:05:03

Date: 6 FEB 2017 15:05:58



**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	0.0072	PASS
40	Normal Voltage	0.0084	
30	Normal Voltage	0.0099	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0104	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0074	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0084	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 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	3.3	4.81	4.17	5.65	<b>PASS</b>
Middle CH	3.68	4.84	4.9	5.65	
Highest CH	3.68	4.84	4.87	5.77	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 6 FEB 2017 16:45:27

Lowest Channel / Full RB



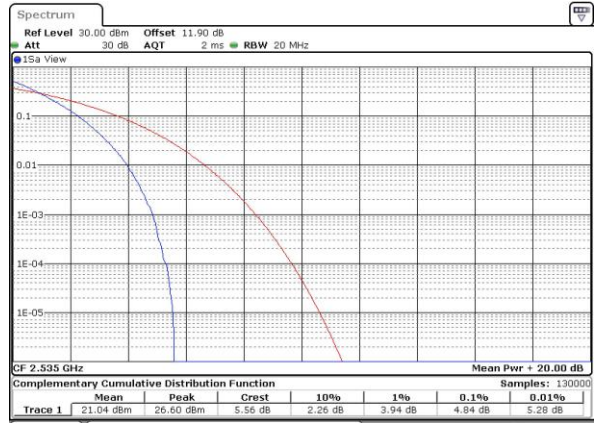
Date: 6 FEB 2017 16:46:28

Middle Channel / 1RB



Date: 6 FEB 2017 16:46:53

Middle Channel / Full RB



Date: 6 FEB 2017 16:47:11

Highest Channel / 1RB



Date: 6 FEB 2017 16:49:34

Highest Channel / Full RB

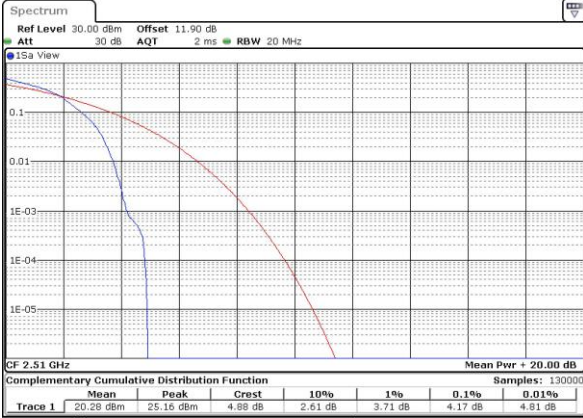


Date: 6 FEB 2017 16:53:28



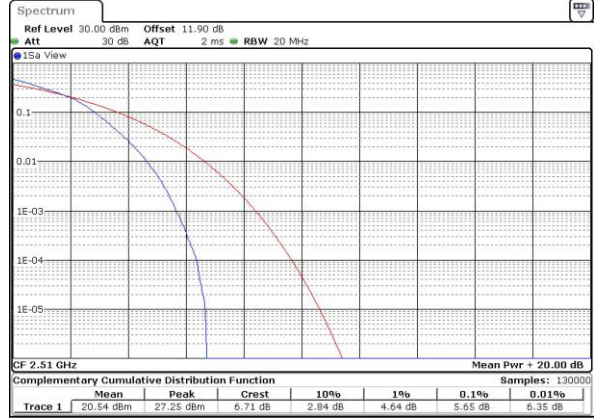
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 6 FEB 2017 16:43:42

Lowest Channel / Full RB



Date: 6 FEB 2017 16:44:13

Middle Channel / 1RB



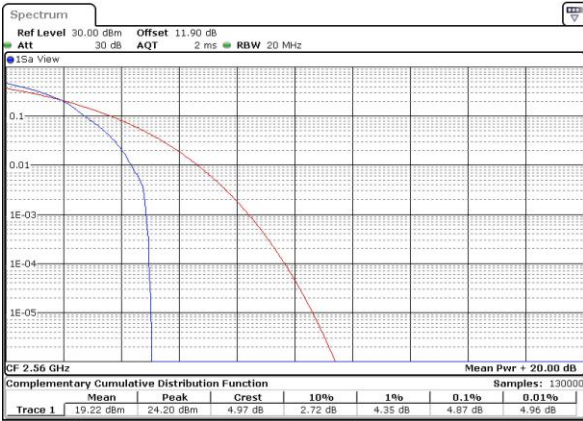
Date: 6 FEB 2017 16:44:24

Middle Channel / Full RB



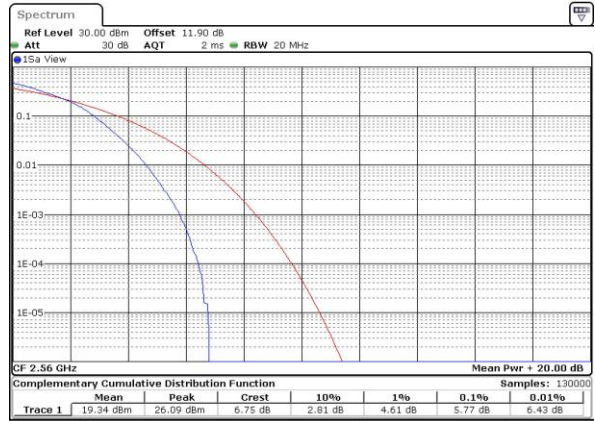
Date: 6 FEB 2017 16:44:34

Highest Channel / 1RB



Date: 6 FEB 2017 16:44:55

Highest Channel / Full RB



Date: 6 FEB 2017 16:45:17



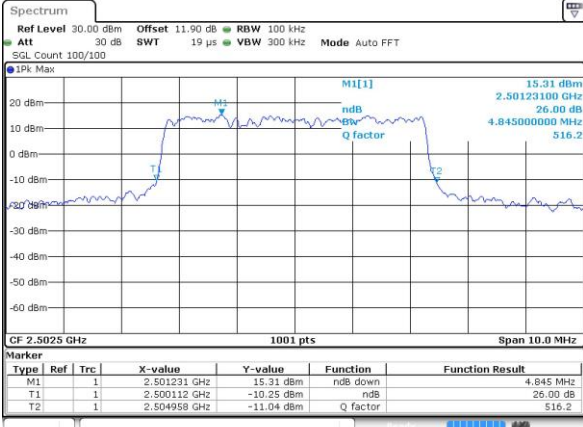
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.85	4.96	9.71	10.05	14.27	14.42	20.30	20.26
Middle CH	-	-	-	-	4.94	4.91	9.95	9.87	14.45	14.36	20.14	20.22
Highest CH	-	-	-	-	5.06	5.01	9.95	9.85	14.51	14.18	20.30	20.14



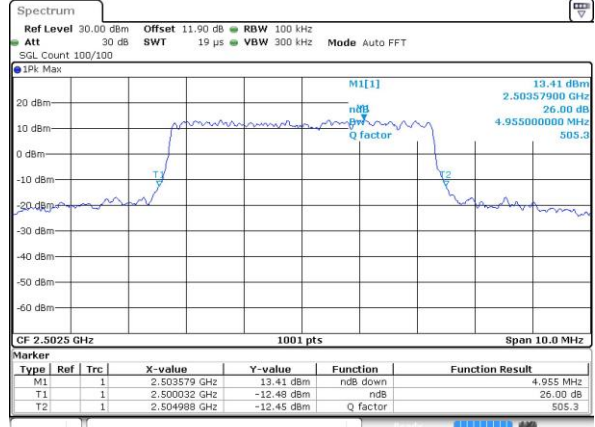
LTE Band 7

Lowest Channel / 5MHz / QPSK



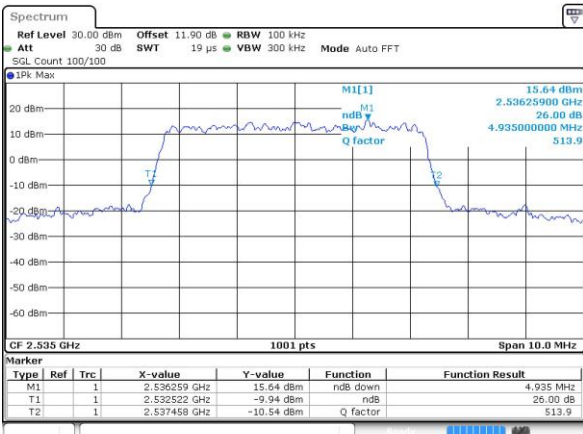
Date: 6 FEB 2017 15:35:51

Lowest Channel / 5MHz / 16QAM



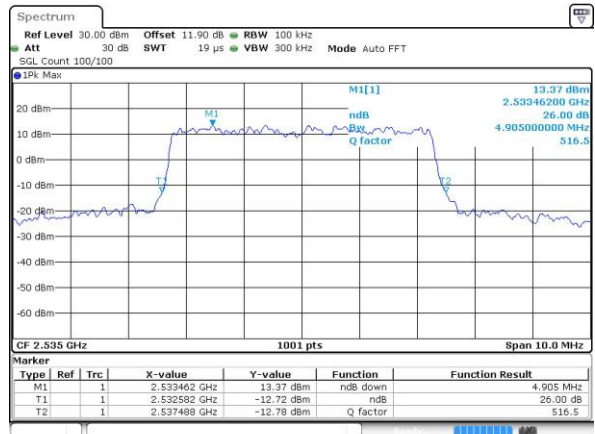
Date: 6 FEB 2017 15:36:01

Middle Channel / 5MHz / QPSK



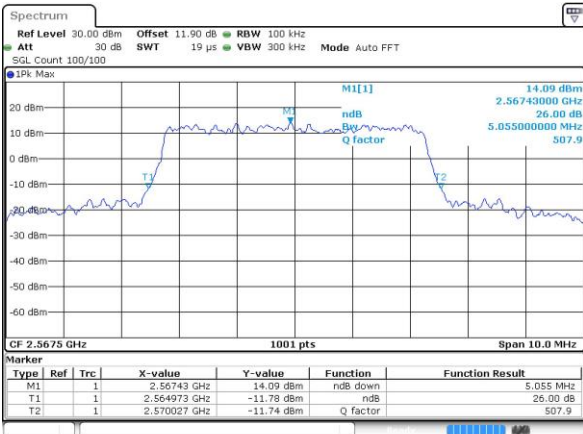
Date: 6 FEB 2017 15:42:59

Middle Channel / 5MHz / 16QAM



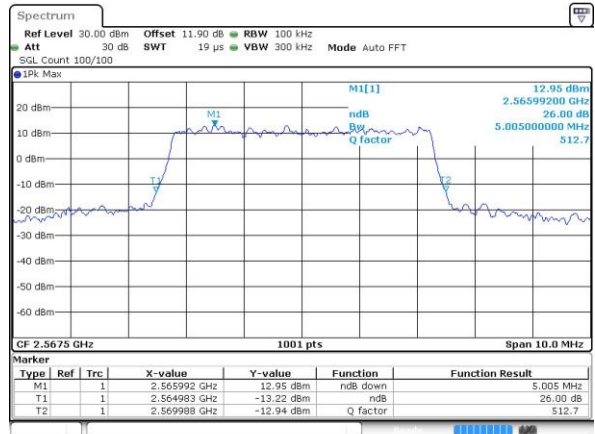
Date: 6 FEB 2017 15:43:09

Highest Channel / 5MHz / QPSK



Date: 6 FEB 2017 15:45:28

Highest Channel / 5MHz / 16QAM

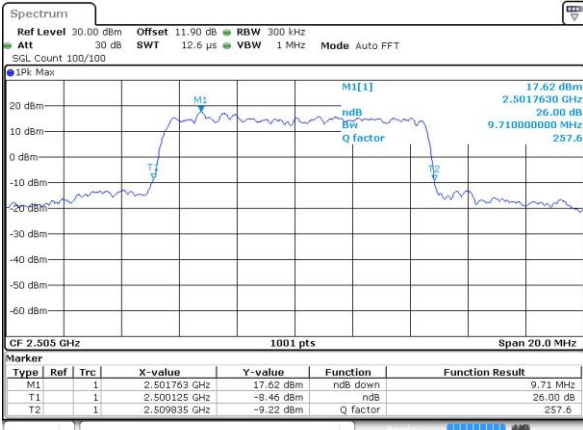


Date: 6 FEB 2017 15:45:39



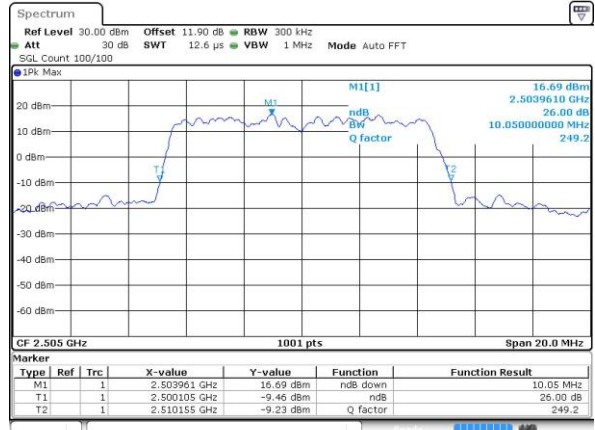
LTE Band 7

Lowest Channel / 10MHz / QPSK



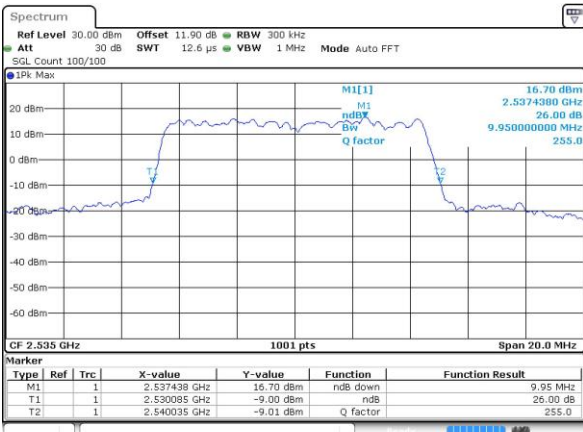
Date: 6 FEB 2017 15:52:37

Lowest Channel / 10MHz / 16QAM



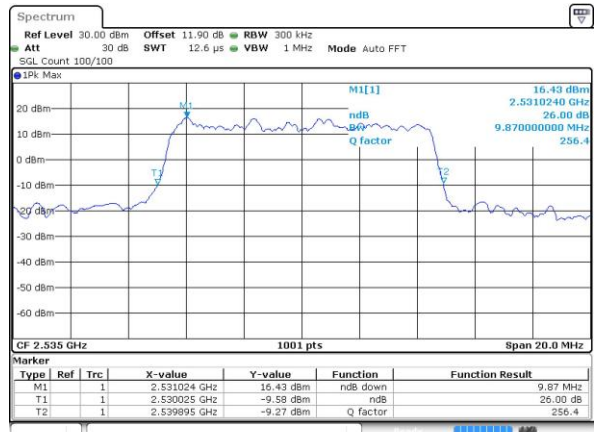
Date: 6 FEB 2017 15:52:47

Middle Channel / 10MHz / QPSK



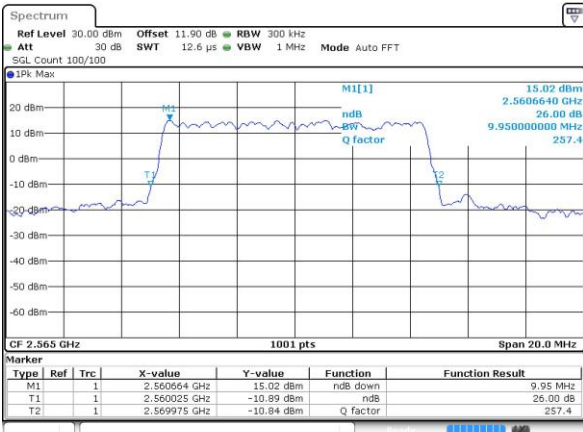
Date: 6 FEB 2017 15:59:45

Middle Channel / 10MHz / 16QAM



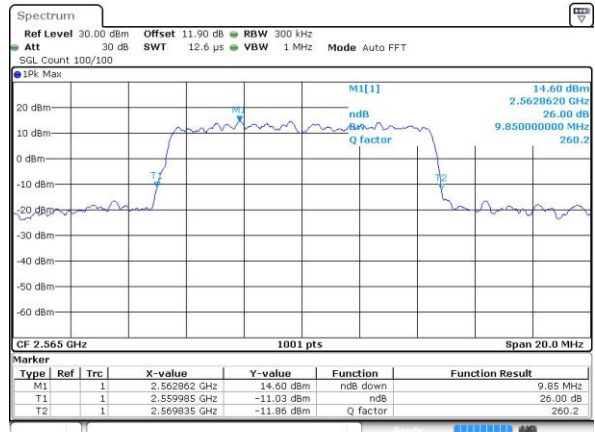
Date: 6 FEB 2017 15:59:55

Highest Channel / 10MHz / QPSK



Date: 6 FEB 2017 16:02:14

Highest Channel / 10MHz / 16QAM



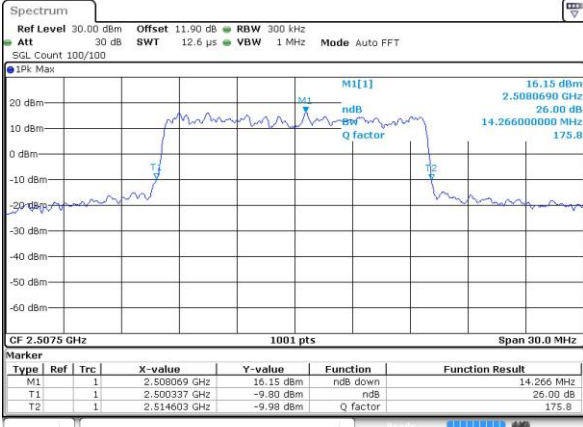
Date: 6 FEB 2017 16:02:24





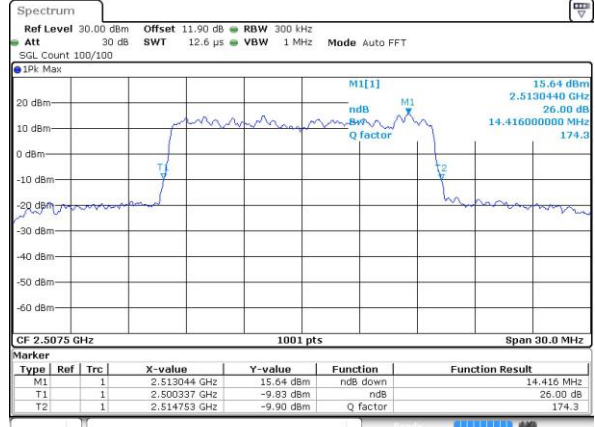
LTE Band 7

Lowest Channel / 15MHz / QPSK



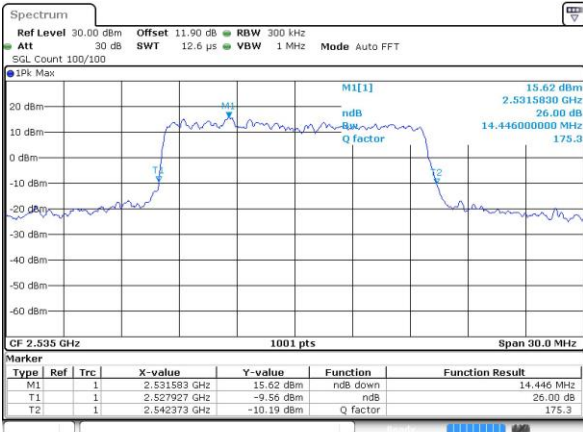
Date: 6 FEB 2017 16:09:21

Lowest Channel / 15MHz / 16QAM



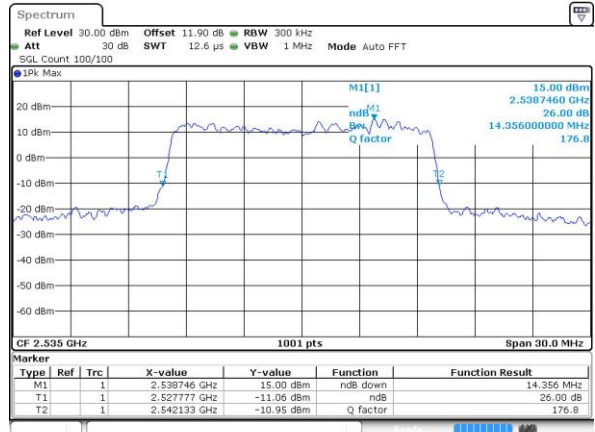
Date: 6 FEB 2017 16:09:32

Middle Channel / 15MHz / QPSK



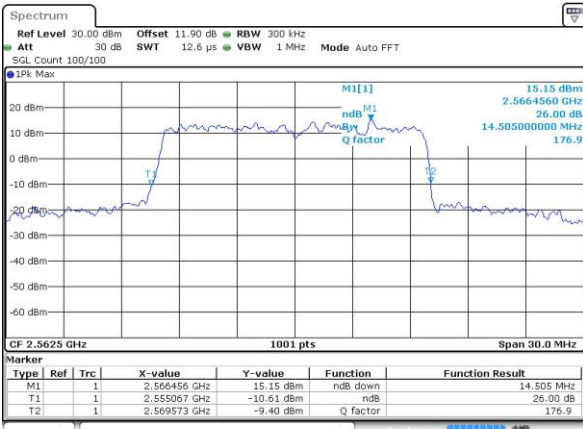
Date: 6 FEB 2017 16:16:29

Middle Channel / 15MHz / 16QAM



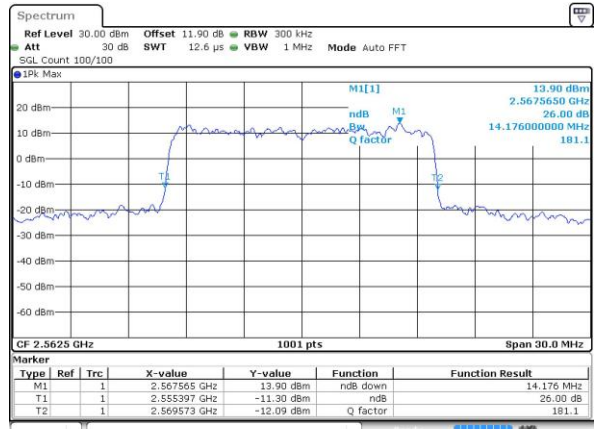
Date: 6 FEB 2017 16:16:40

Highest Channel / 15MHz / QPSK



Date: 6 FEB 2017 16:18:58

Highest Channel / 15MHz / 16QAM

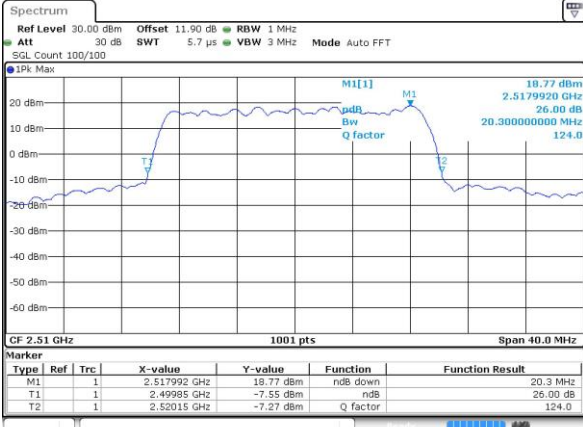


Date: 6 FEB 2017 16:19:09



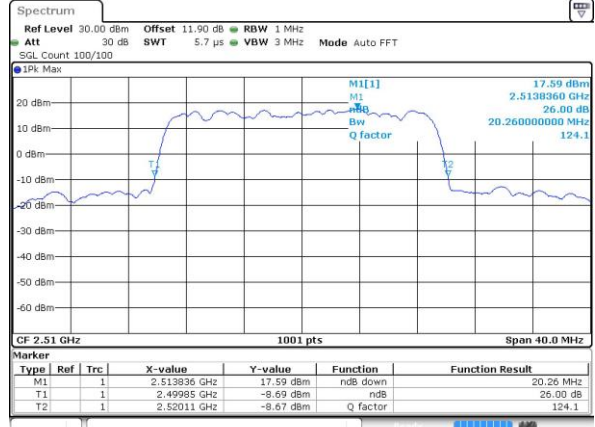
LTE Band 7

Lowest Channel / 20MHz / QPSK



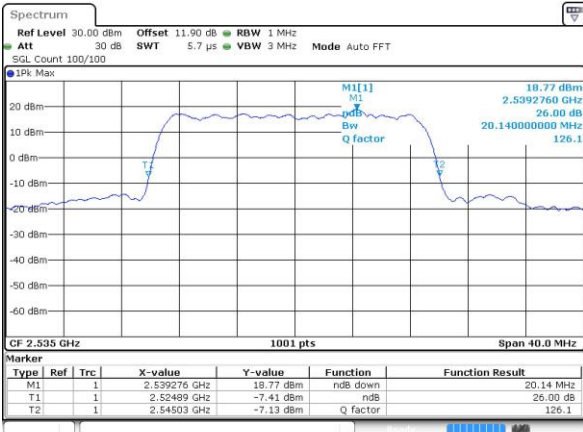
Date: 6 FEB 2017 16:26:06

Lowest Channel / 20MHz / 16QAM



Date: 6 FEB 2017 16:26:17

Middle Channel / 20MHz / QPSK



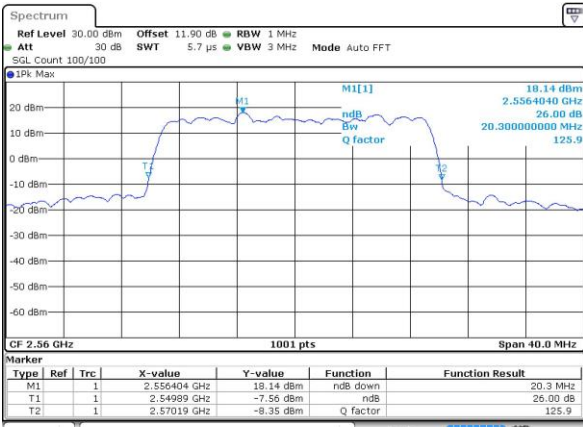
Date: 6 FEB 2017 16:33:14

Middle Channel / 20MHz / 16QAM



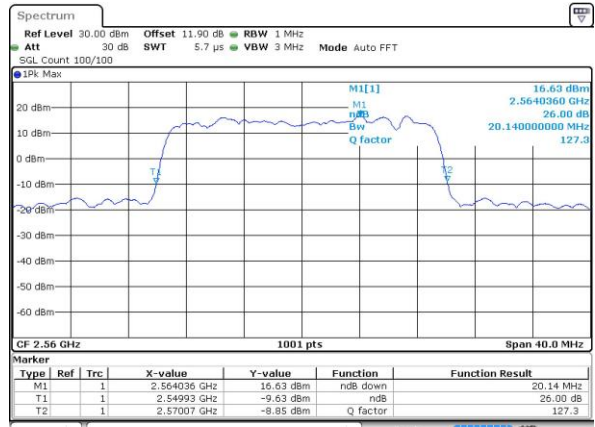
Date: 6 FEB 2017 16:33:24

Highest Channel / 20MHz / QPSK



Date: 6 FEB 2017 16:35:43

Highest Channel / 20MHz / 16QAM



Date: 6 FEB 2017 16:35:53



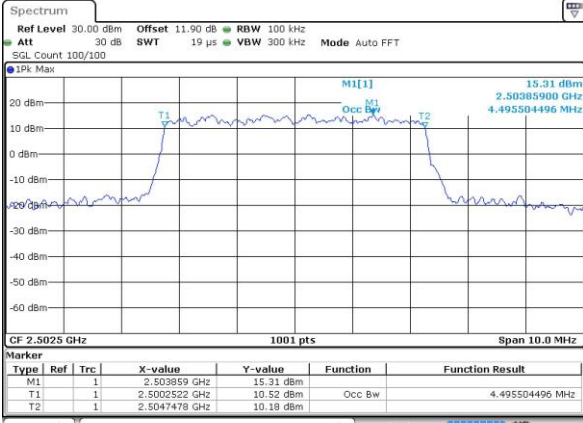
### Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.5	9.07	9.03	13.46	13.49	18.54	18.5
Middle CH	-	-	-	-	4.5	4.5	8.99	9.03	13.49	13.46	18.38	18.54
Highest CH	-	-	-	-	4.48	4.52	9.11	9.01	13.43	13.46	18.5	18.54



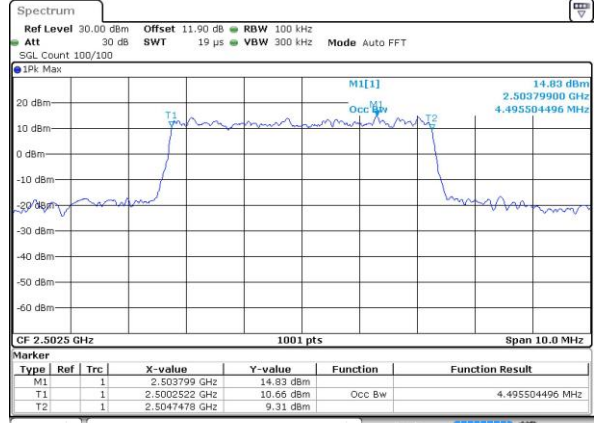
LTE Band 7

Lowest Channel / 5MHz / QPSK



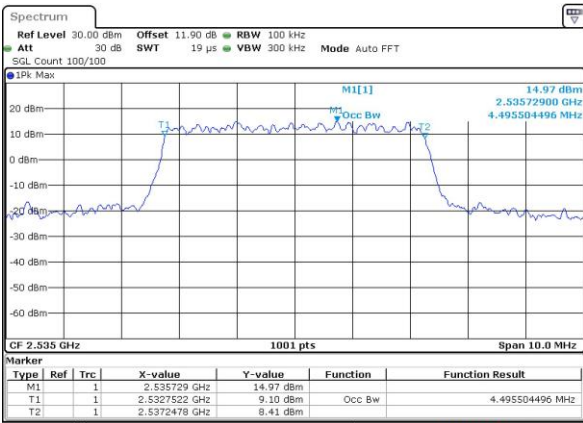
Date: 6 FEB 2017 15:35:30

Lowest Channel / 5MHz / 16QAM



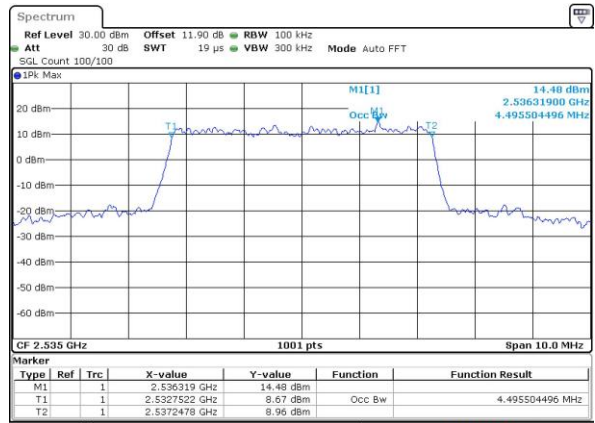
Date: 6 FEB 2017 15:35:40

Middle Channel / 5MHz / QPSK



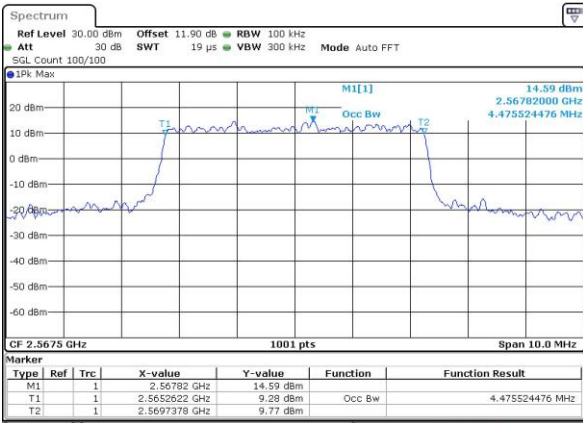
Date: 6 FEB 2017 15:42:38

Middle Channel / 5MHz / 16QAM



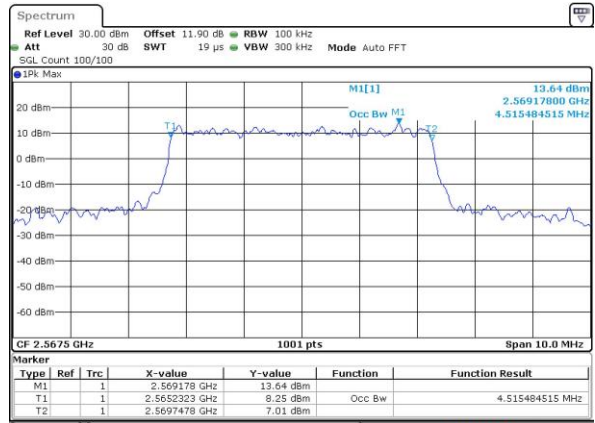
Date: 6 FEB 2017 15:42:48

Highest Channel / 5MHz / QPSK



Date: 6 FEB 2017 15:45:07

Highest Channel / 5MHz / 16QAM

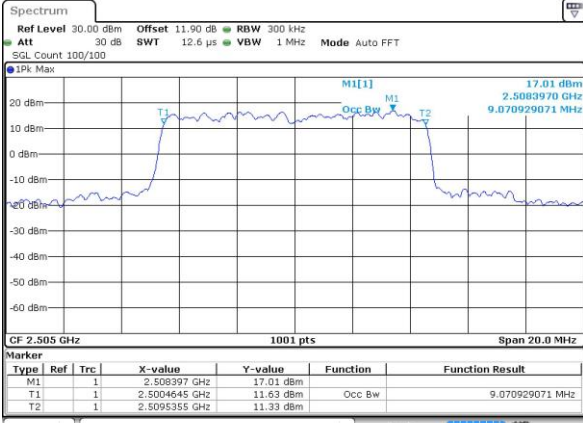


Date: 6 FEB 2017 15:45:18



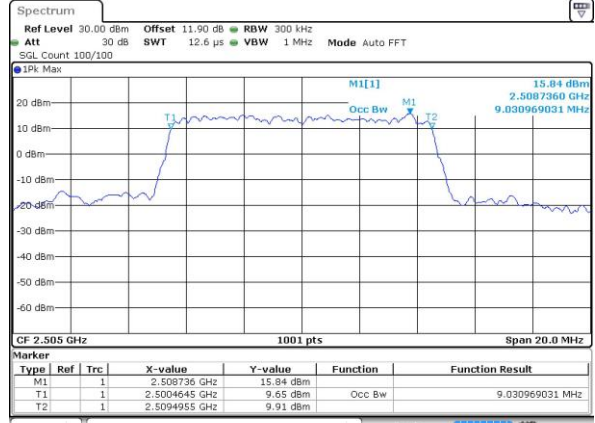
LTE Band 7

Lowest Channel / 10MHz / QPSK



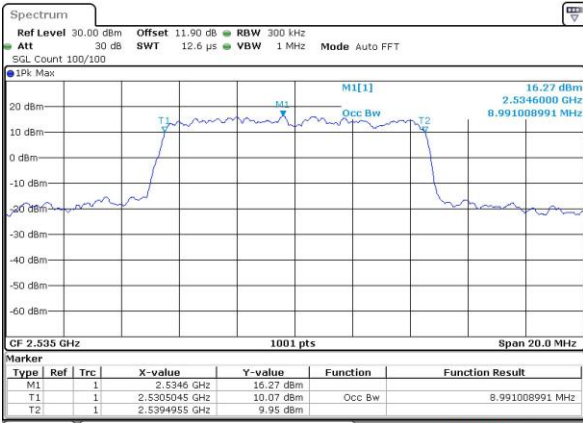
Date: 6 FEB 2017 15:52:16

Lowest Channel / 10MHz / 16QAM



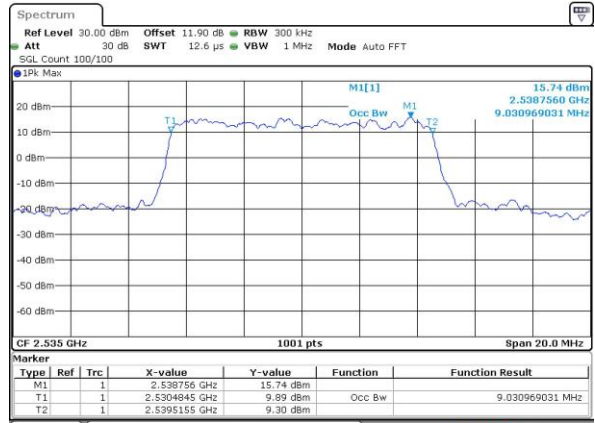
Date: 6 FEB 2017 15:52:27

Middle Channel / 10MHz / QPSK



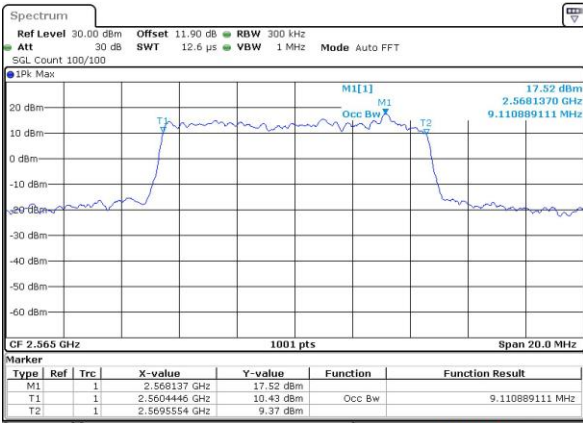
Date: 6 FEB 2017 15:59:24

Middle Channel / 10MHz / 16QAM



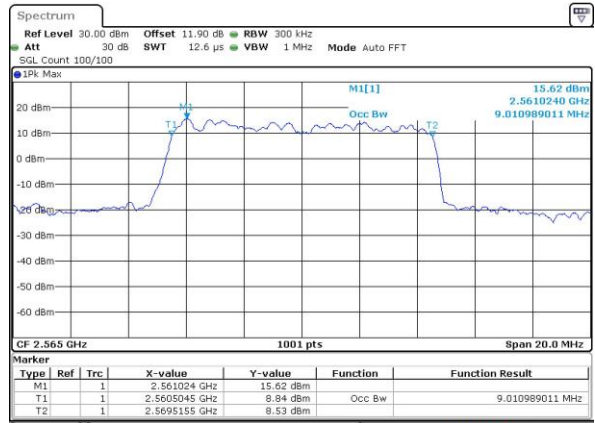
Date: 6 FEB 2017 15:59:34

Highest Channel / 10MHz / QPSK



Date: 6 FEB 2017 16:01:53

Highest Channel / 10MHz / 16QAM



Date: 6 FEB 2017 16:02:03