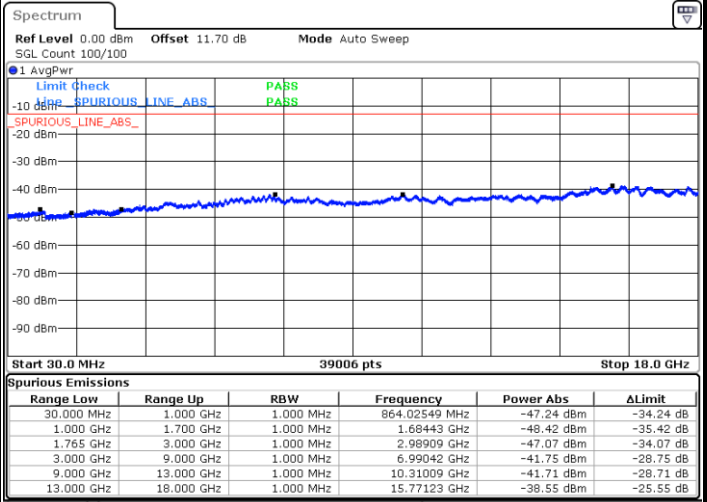
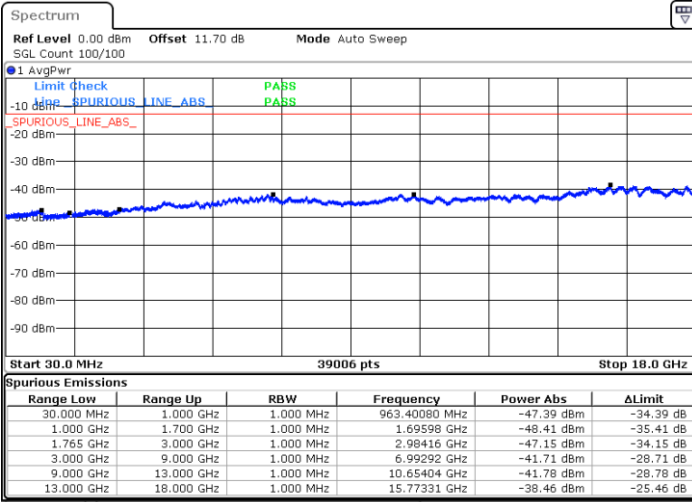




LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

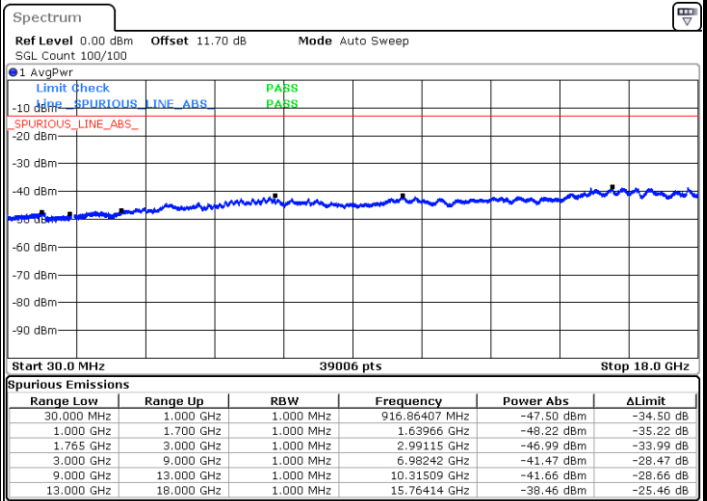
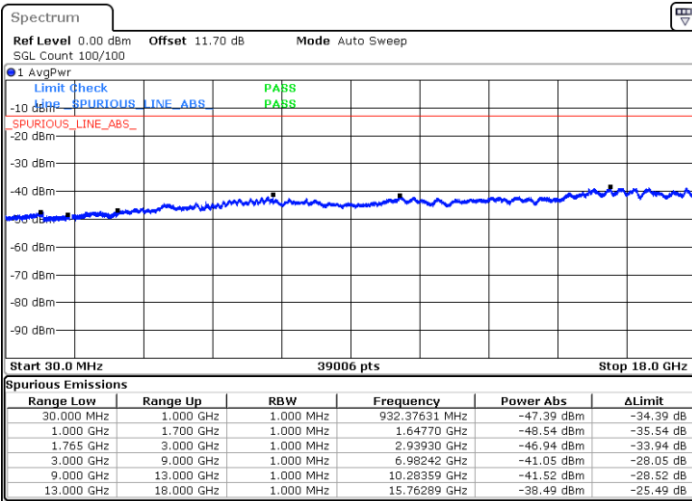


Date: 26 SEP.2017 10:49:47

Date: 26 SEP.2017 10:50:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 SEP.2017 10:56:50

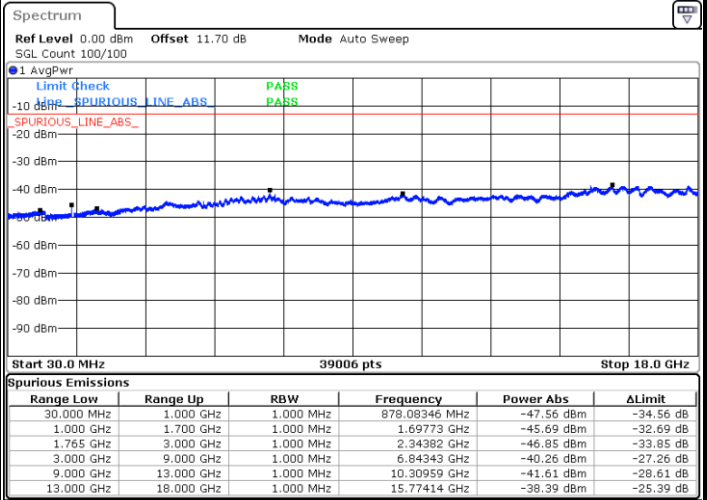
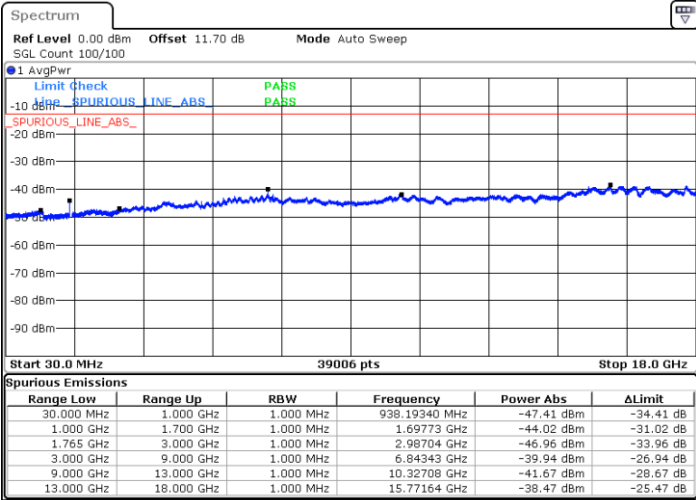
Date: 26 SEP.2017 10:57:44



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

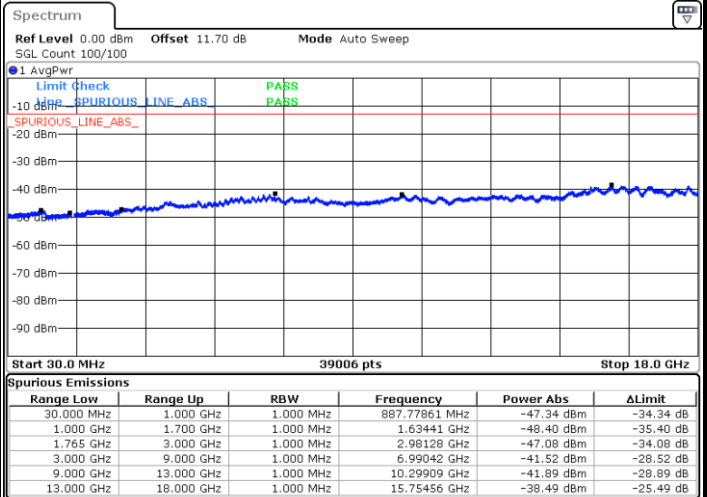
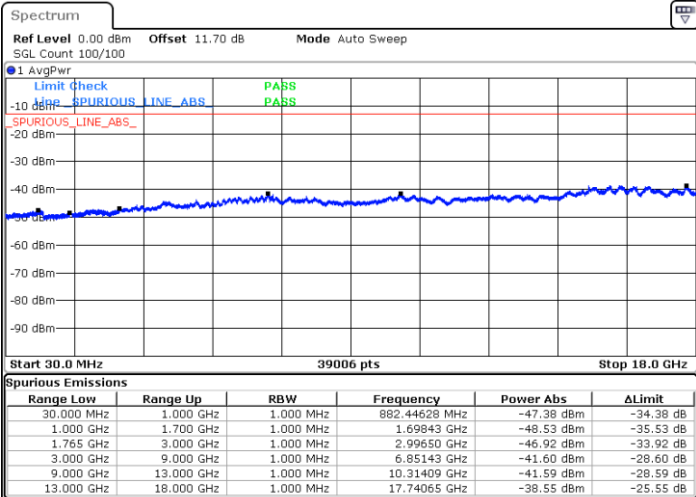


Date: 26 SEP.2017 11:03:53

Date: 26 SEP.2017 11:04:47

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 26 SEP.2017 11:06:21

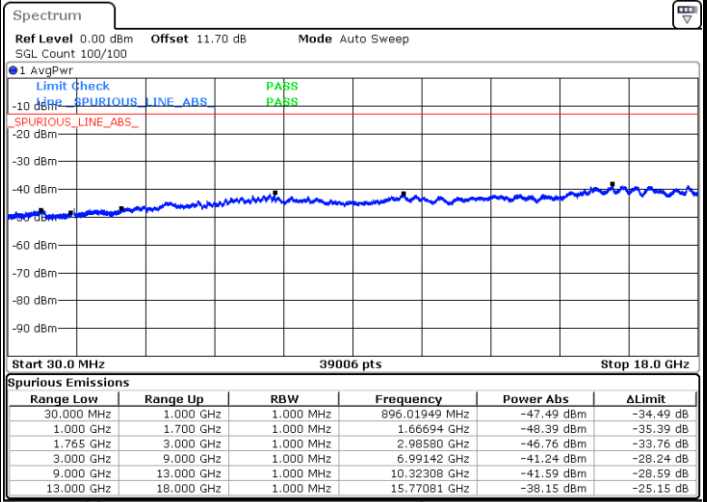
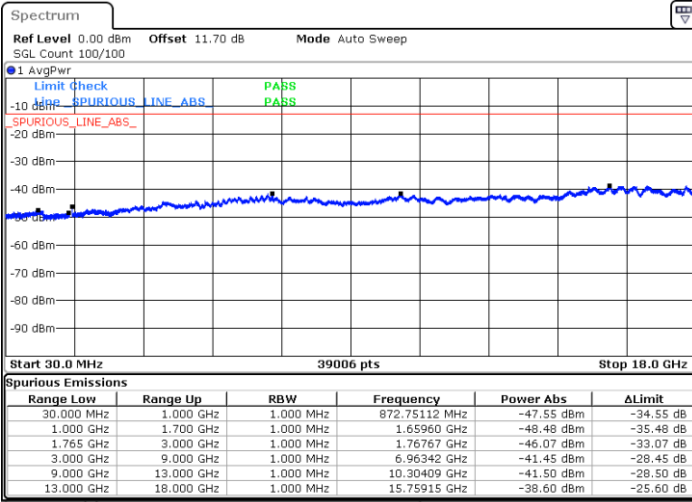
Date: 26 SEP.2017 11:07:15



LTE Band 4 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



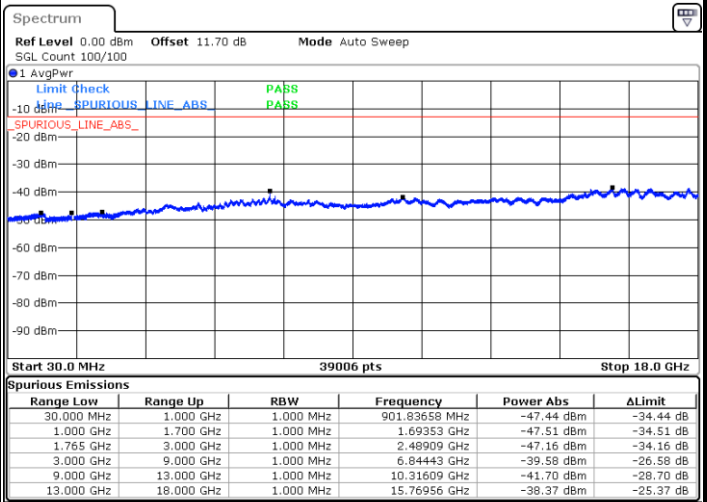
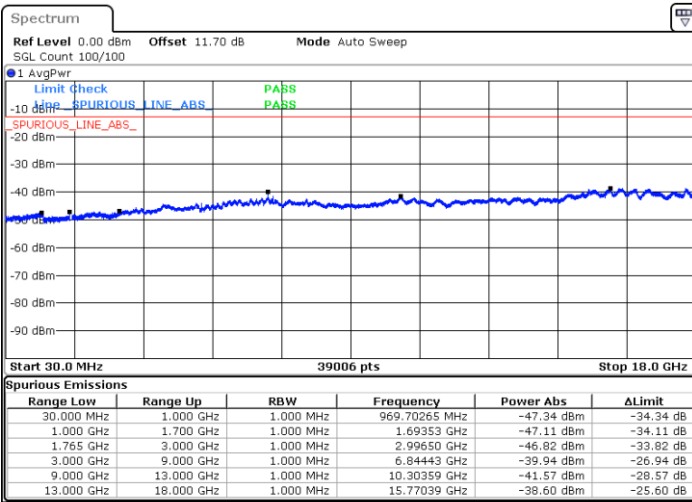
Date: 26 SEP.2017 11:13:24

Date: 26 SEP.2017 11:14:18

LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 26 SEP.2017 11:20:27

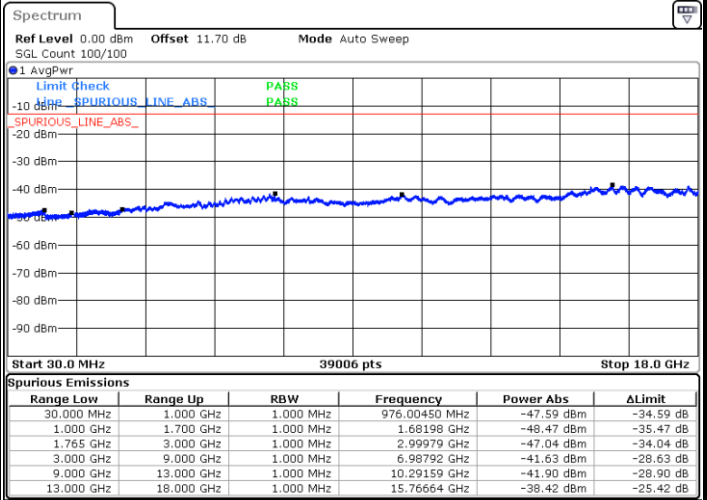
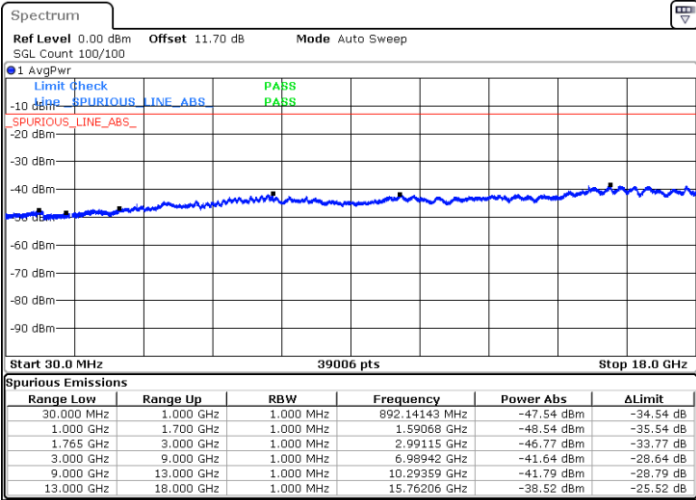
Date: 26 SEP.2017 11:21:21



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

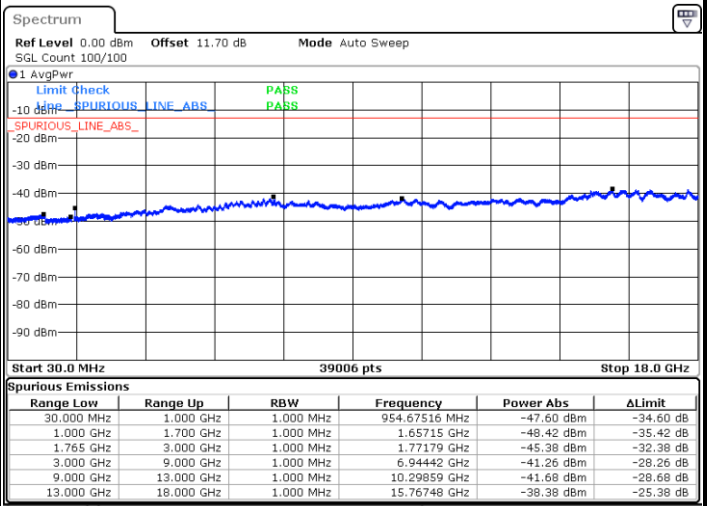
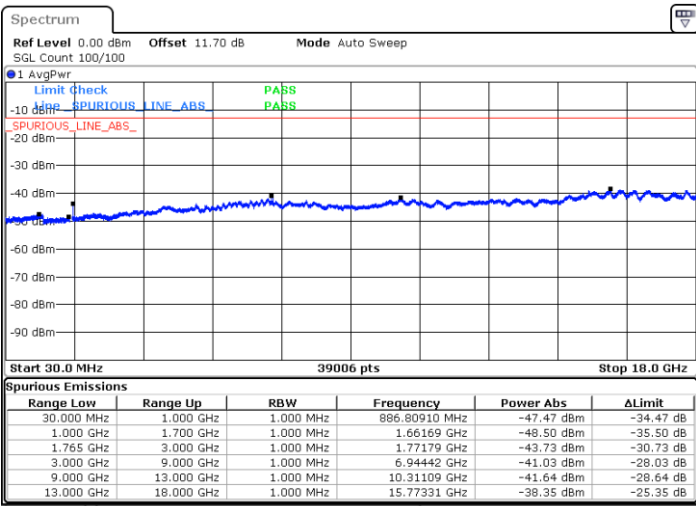


Date: 26 SEP.2017 11:22:54

Date: 26 SEP.2017 11:23:48

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 SEP.2017 11:29:57

Date: 26 SEP.2017 11:30:51



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0038	

Note:

1. Normal Voltage =4.0 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 5

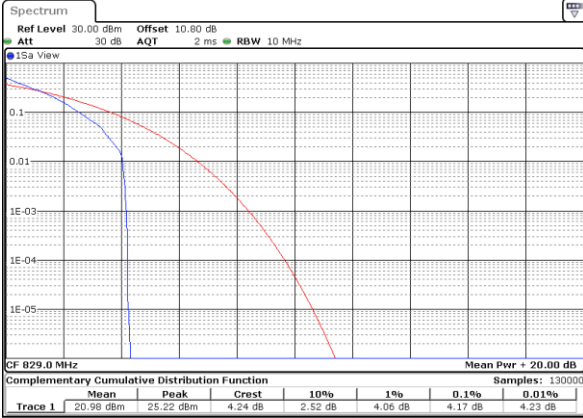
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.17	5.04	5.1	5.88	PASS
Middle CH	3.88	4.72	4.81	5.77	
Highest CH	4.14	5.04	4.96	5.8	



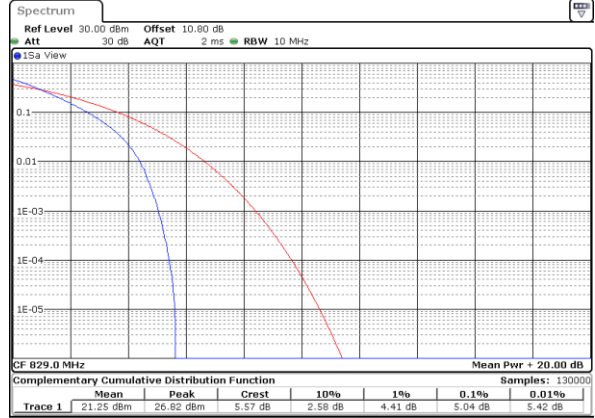
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



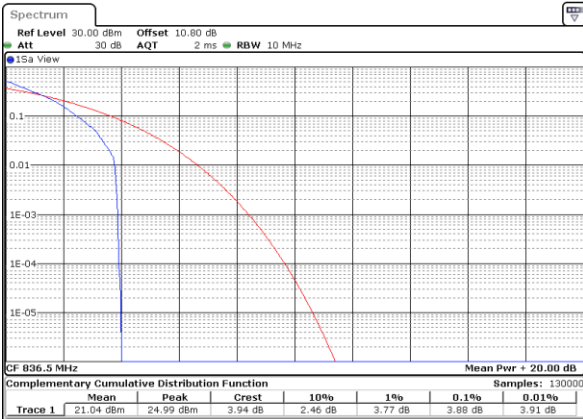
Date: 26 SEP 2017 10:05:52

Lowest Channel / Full RB



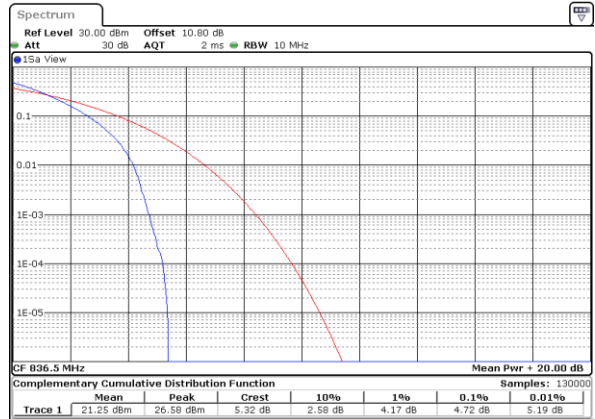
Date: 26 SEP 2017 10:06:07

Middle Channel / 1RB



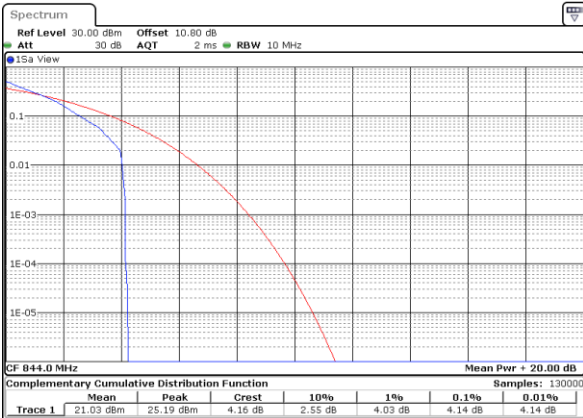
Date: 26 SEP 2017 10:06:21

Middle Channel / Full RB



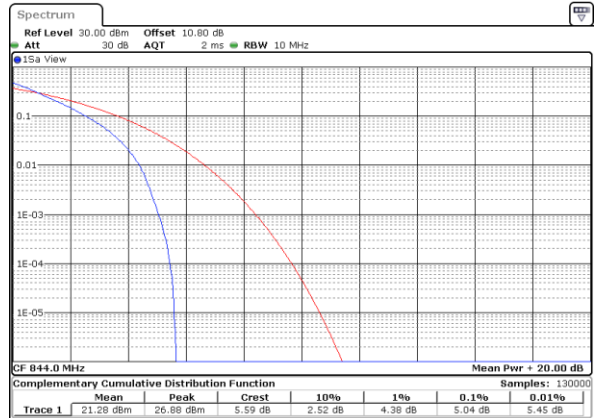
Date: 26 SEP 2017 10:06:36

Highest Channel / 1RB



Date: 26 SEP 2017 10:06:58

Highest Channel / Full RB

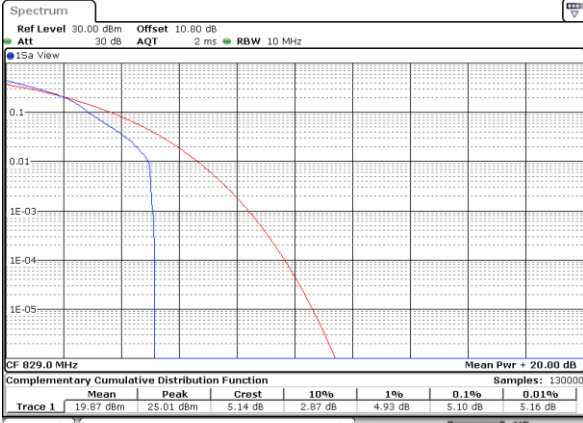


Date: 26 SEP 2017 10:07:07



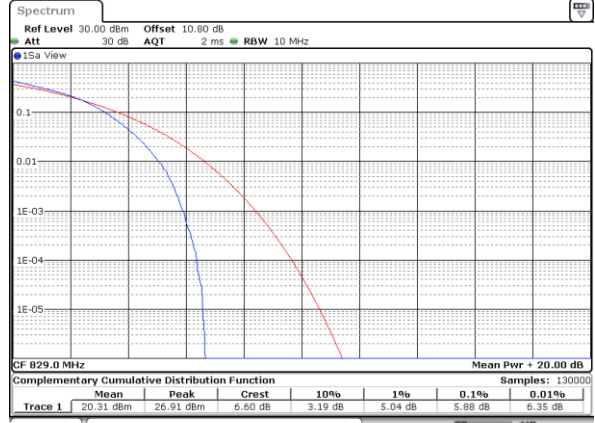
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



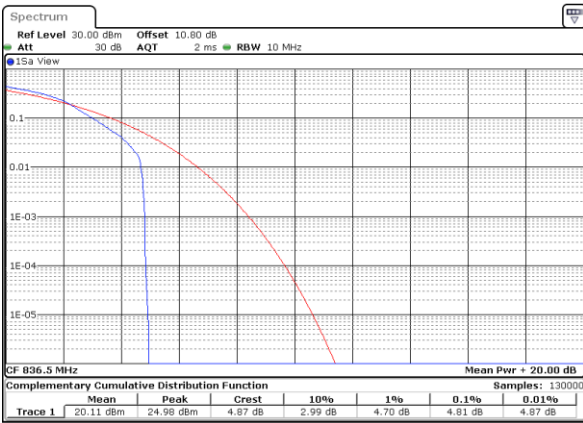
Date: 26 SEP 2017 10:04:10

Lowest Channel / Full RB



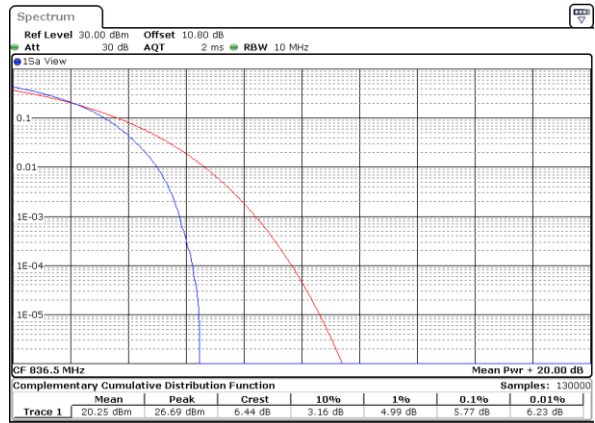
Date: 26 SEP 2017 10:04:36

Middle Channel / 1RB



Date: 26 SEP 2017 10:05:06

Middle Channel / Full RB



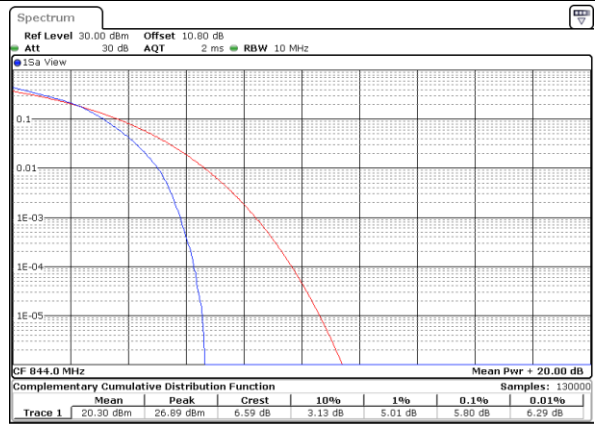
Date: 26 SEP 2017 10:05:15

Highest Channel / 1RB



Date: 26 SEP 2017 10:05:24

Highest Channel / Full RB



Date: 26 SEP 2017 10:05:43



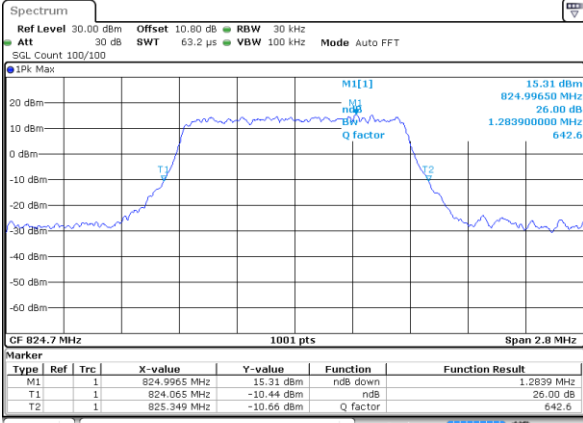
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.28	3.05	3.04	4.94	4.96	9.91	9.83	-	-	-	-
Middle CH	1.26	1.26	3.03	3.02	4.80	5.05	9.77	9.75	-	-	-	-
Highest CH	1.28	1.28	2.97	3.01	5.01	5.02	10.13	9.81	-	-	-	-



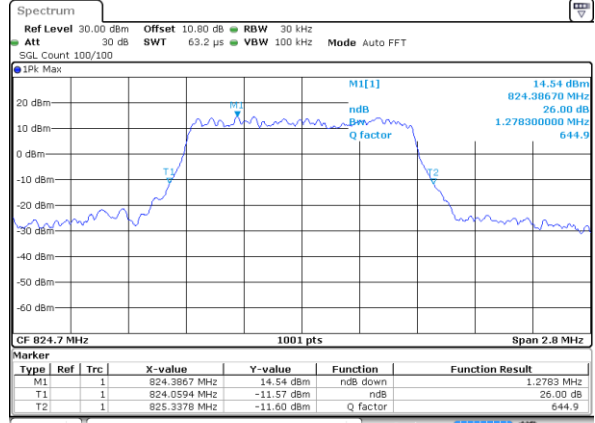
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



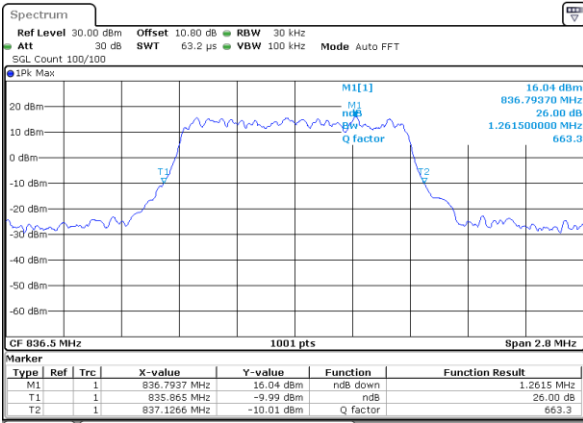
Date: 26 SEP 2017 09:43:12

Lowest Channel / 1.4MHz / 16QAM



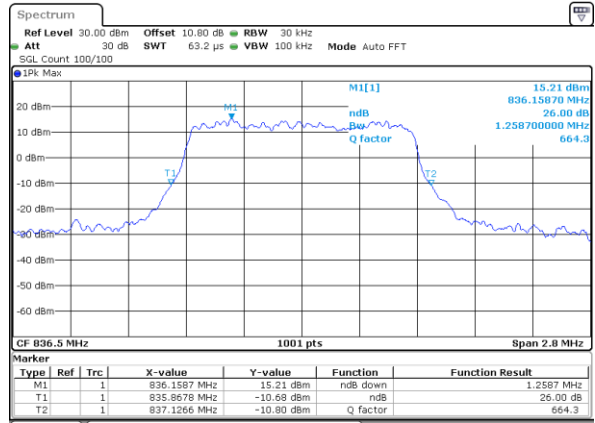
Date: 26 SEP 2017 09:43:02

Middle Channel / 1.4MHz / QPSK



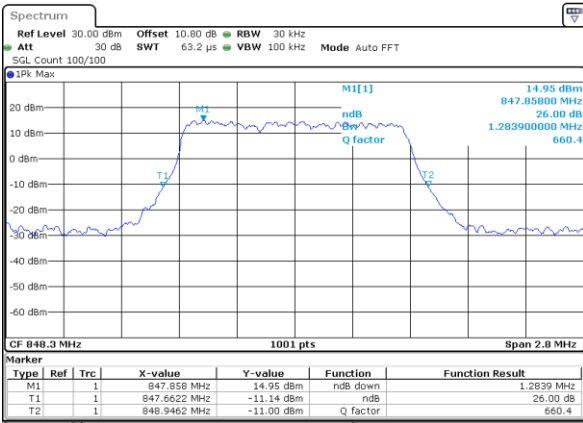
Date: 26 SEP 2017 09:52:04

Middle Channel / 1.4MHz / 16QAM



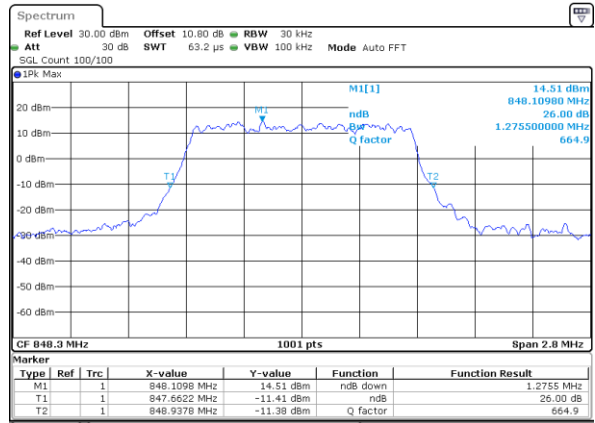
Date: 26 SEP 2017 09:52:14

Highest Channel / 1.4MHz / QPSK



Date: 26 SEP 2017 09:54:31

Highest Channel / 1.4MHz / 16QAM

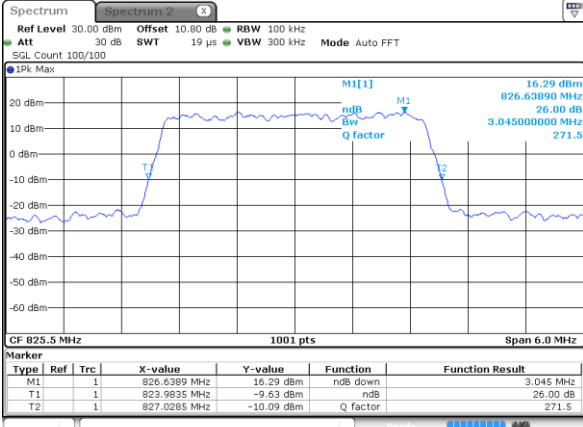


Date: 26 SEP 2017 09:54:41



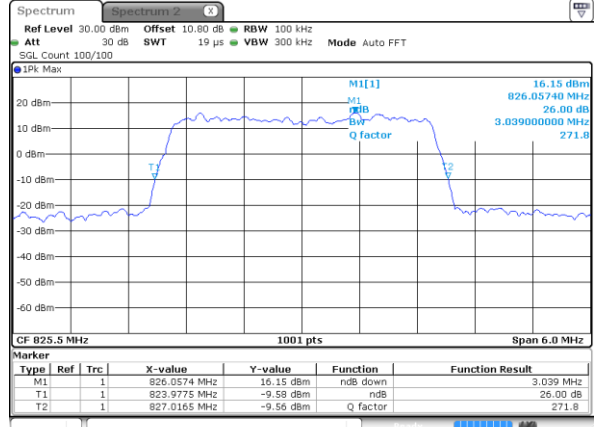
LTE Band 5

Lowest Channel / 3MHz / QPSK



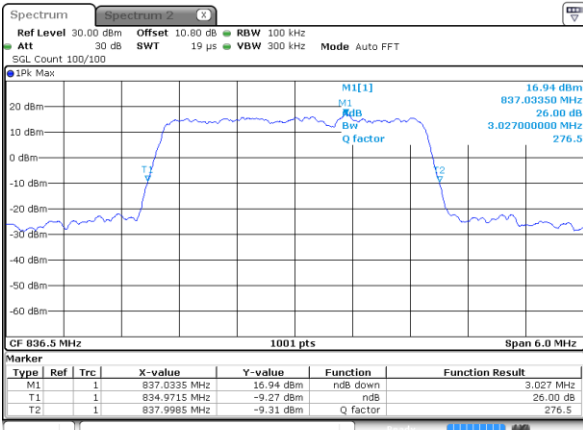
Date: 26 SEP 2017 01:53:29

Lowest Channel / 3MHz / 16QAM



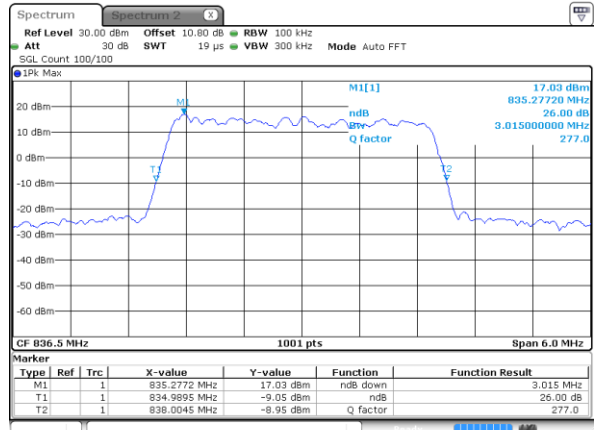
Date: 26 SEP 2017 01:53:39

Middle Channel / 3MHz / QPSK



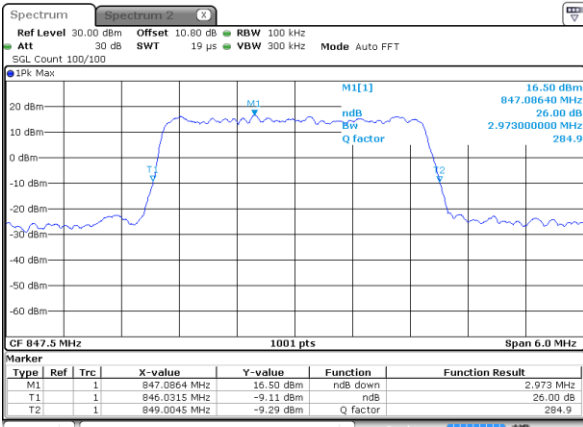
Date: 26 SEP 2017 02:02:31

Middle Channel / 3MHz / 16QAM



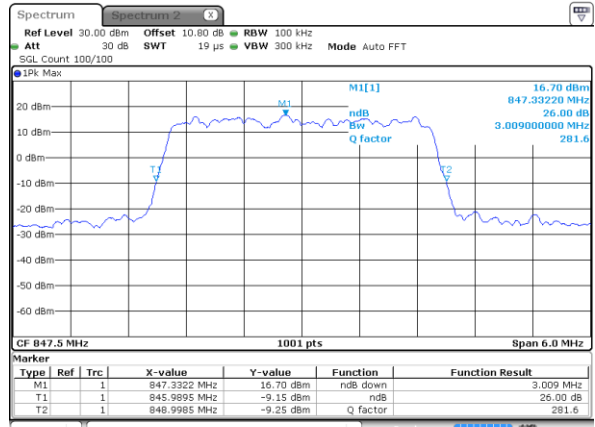
Date: 26 SEP 2017 02:02:41

Highest Channel / 3MHz / QPSK



Date: 26 SEP 2017 02:04:59

Highest Channel / 3MHz / 16QAM

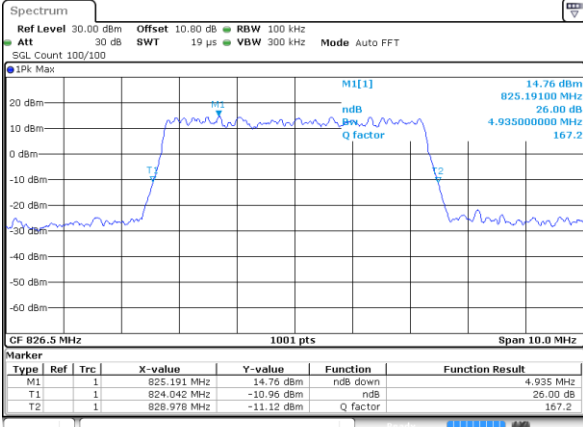


Date: 26 SEP 2017 02:05:09



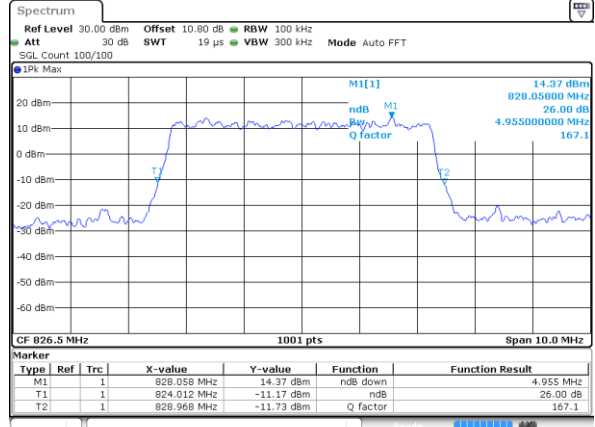
LTE Band 5

Lowest Channel / 5MHz / QPSK



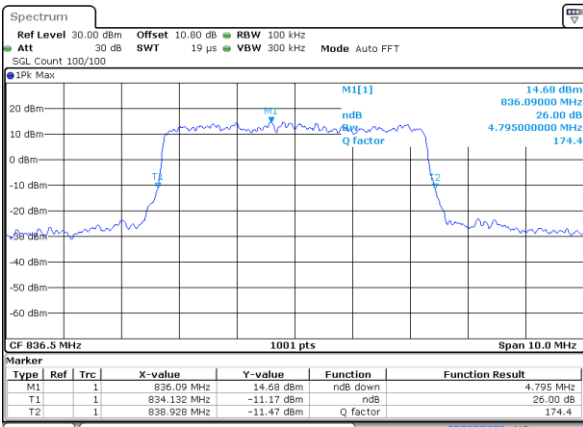
Date: 26 SEP 2017 08:58:19

Lowest Channel / 5MHz / 16QAM



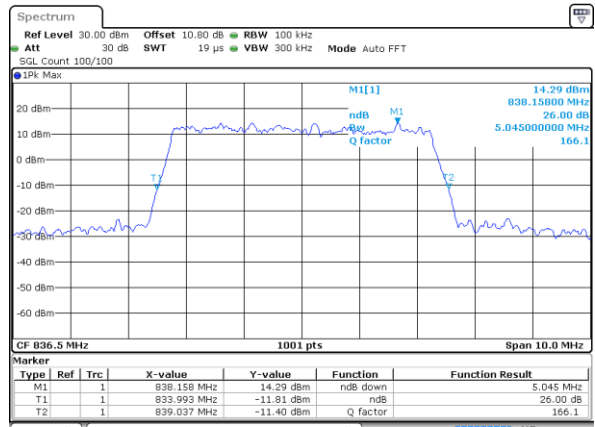
Date: 26 SEP 2017 08:58:29

Middle Channel / 5MHz / QPSK



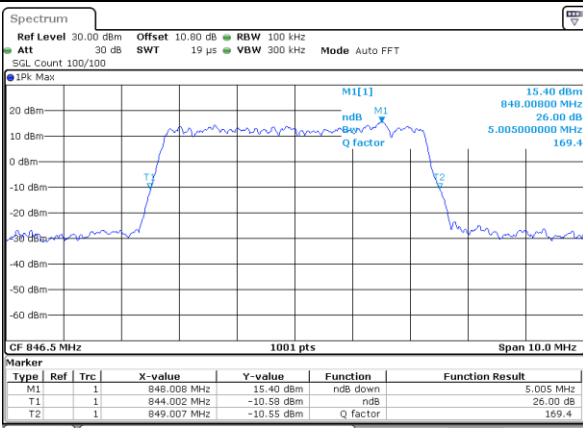
Date: 26 SEP 2017 09:09:00

Middle Channel / 5MHz / 16QAM



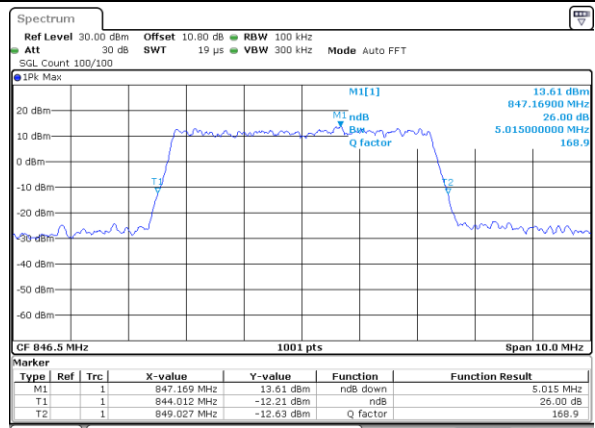
Date: 26 SEP 2017 09:09:10

Highest Channel / 5MHz / QPSK



Date: 26 SEP 2017 09:11:28

Highest Channel / 5MHz / 16QAM

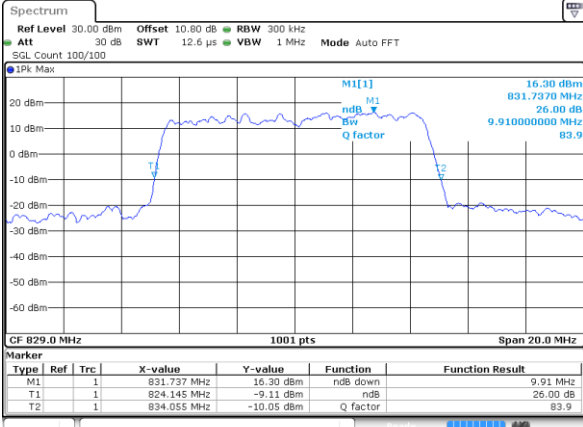


Date: 26 SEP 2017 09:11:38



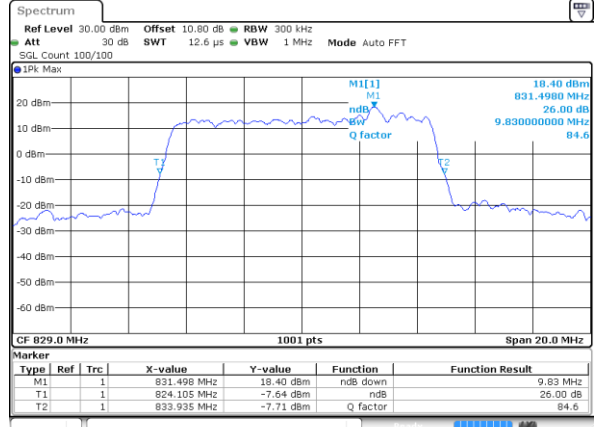
LTE Band 5

Lowest Channel / 10MHz / QPSK



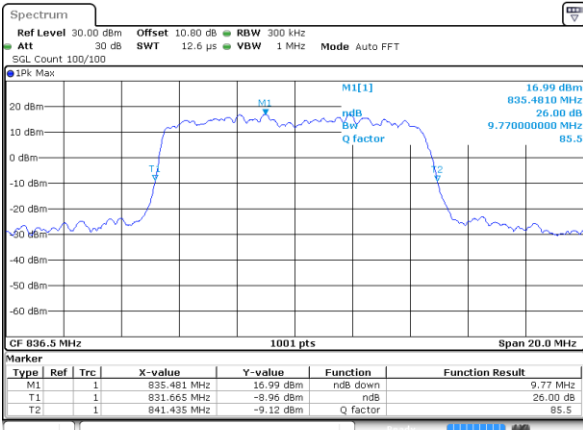
Date: 26 SEP 2017 09:20:30

Lowest Channel / 10MHz / 16QAM



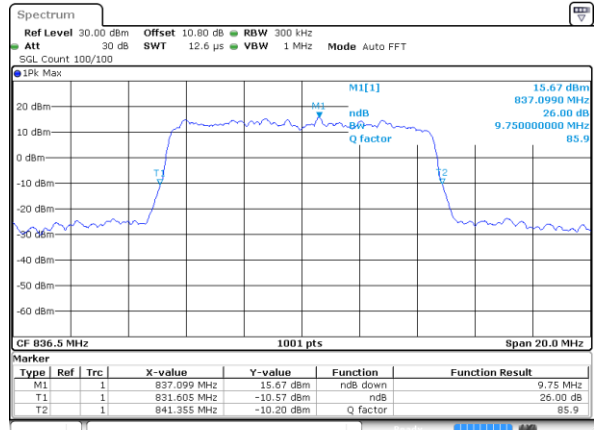
Date: 26 SEP 2017 09:20:40

Middle Channel / 10MHz / QPSK



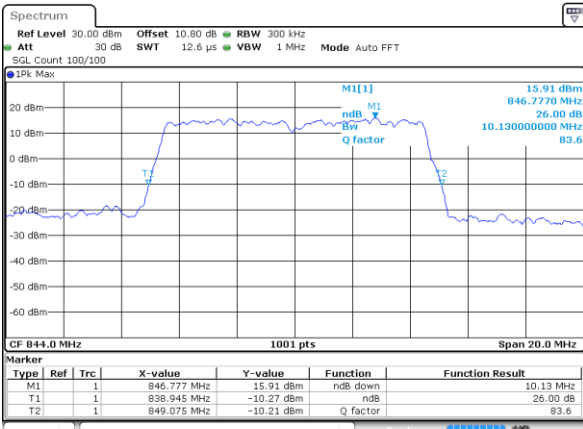
Date: 26 SEP 2017 09:29:32

Middle Channel / 10MHz / 16QAM



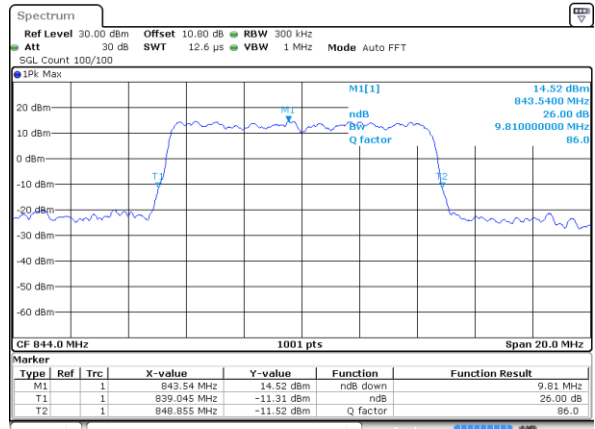
Date: 26 SEP 2017 09:29:42

Highest Channel / 10MHz / QPSK



Date: 26 SEP 2017 09:32:00

Highest Channel / 10MHz / 16QAM



Date: 26 SEP 2017 09:32:10



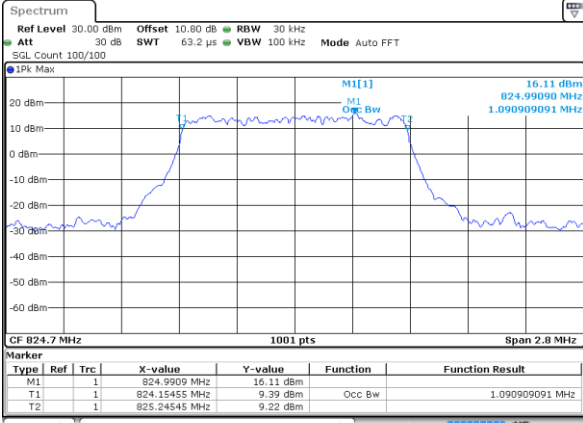
Occupied Bandwidth

Mode	LTE Band 5 : 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	1.09	1.09	2.73	2.75	4.51	4.51	9.05	9.07	-	-	-	-
Middle CH	1.09	1.1	2.72	2.73	4.5	4.49	9.05	8.95	-	-	-	-
Highest CH	1.09	1.09	2.7	2.72	4.52	4.52	9.07	9.01	-	-	-	-



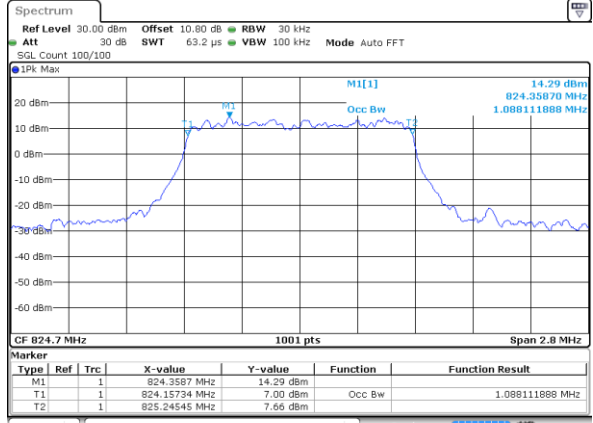
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



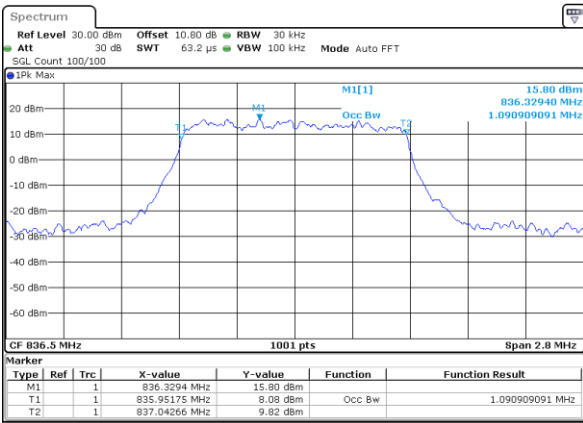
Date: 26 SEP 2017 09:42:42

Lowest Channel / 1.4MHz / 16QAM



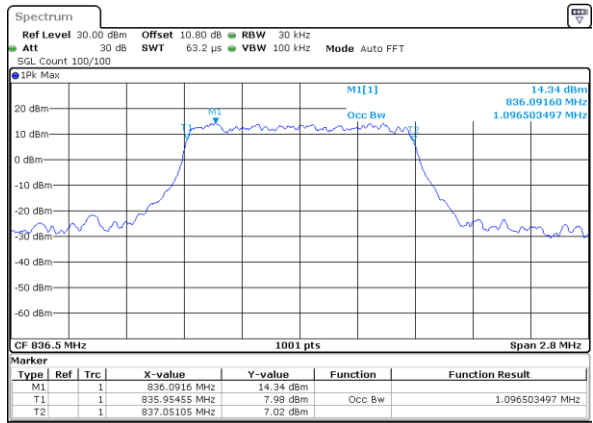
Date: 26 SEP 2017 09:42:52

Middle Channel / 1.4MHz / QPSK



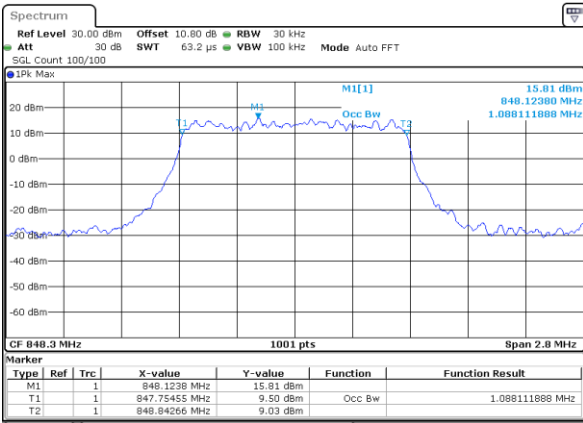
Date: 26 SEP 2017 09:51:44

Middle Channel / 1.4MHz / 16QAM



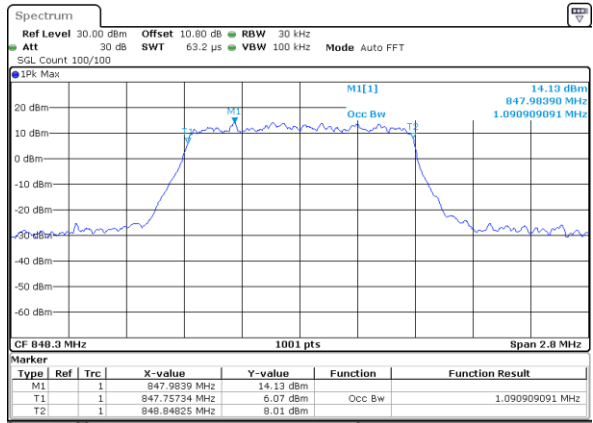
Date: 26 SEP 2017 09:51:54

Highest Channel / 1.4MHz / QPSK



Date: 26 SEP 2017 09:54:11

Highest Channel / 1.4MHz / 16QAM

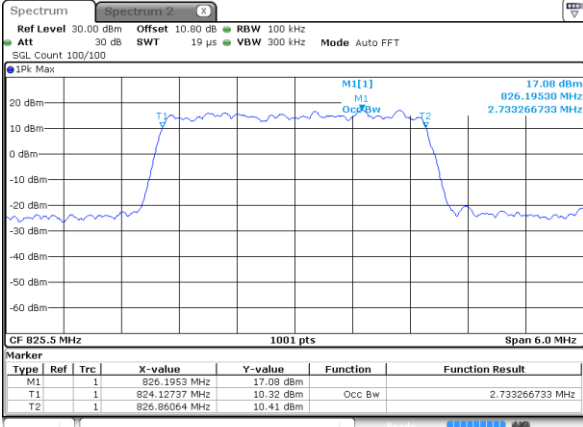


Date: 26 SEP 2017 09:54:21



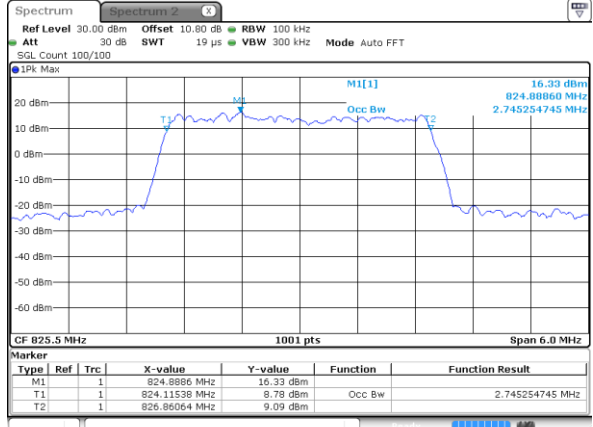
LTE Band 5

Lowest Channel / 3MHz / QPSK



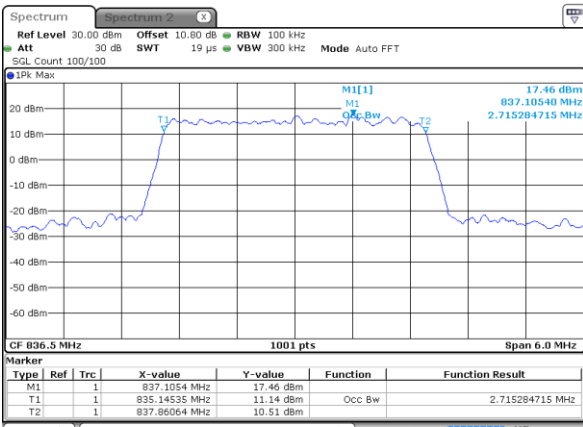
Date: 26 SEP 2017 01:53:09

Lowest Channel / 3MHz / 16QAM



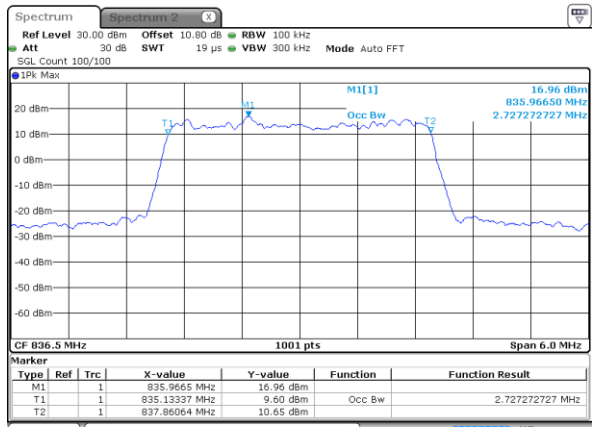
Date: 26 SEP 2017 01:53:19

Middle Channel / 3MHz / QPSK



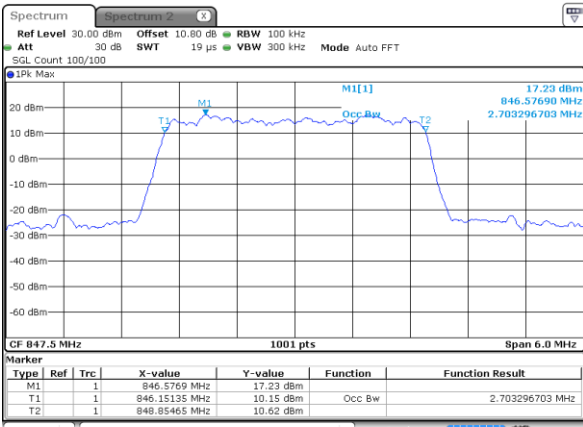
Date: 26 SEP 2017 02:02:11

Middle Channel / 3MHz / 16QAM



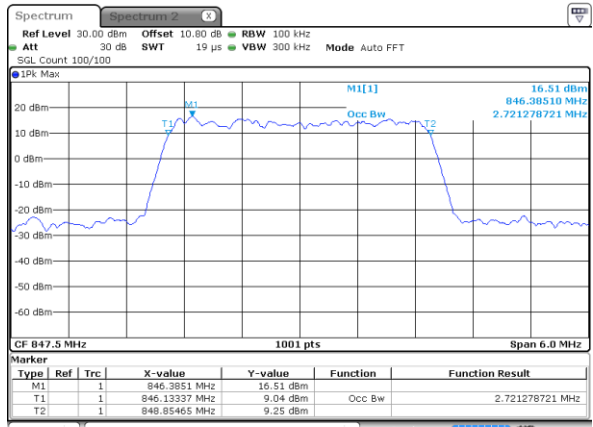
Date: 26 SEP 2017 02:02:21

Highest Channel / 3MHz / QPSK



Date: 26 SEP 2017 02:04:39

Highest Channel / 3MHz / 16QAM

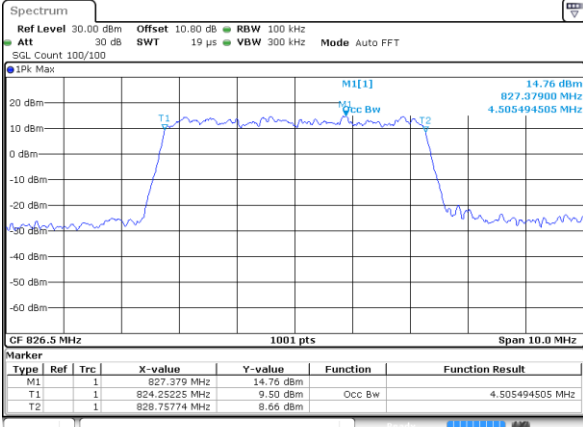


Date: 26 SEP 2017 02:04:49



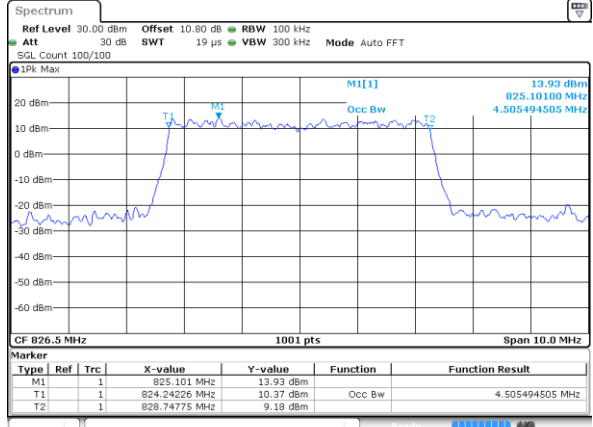
LTE Band 5

Lowest Channel / 5MHz / QPSK



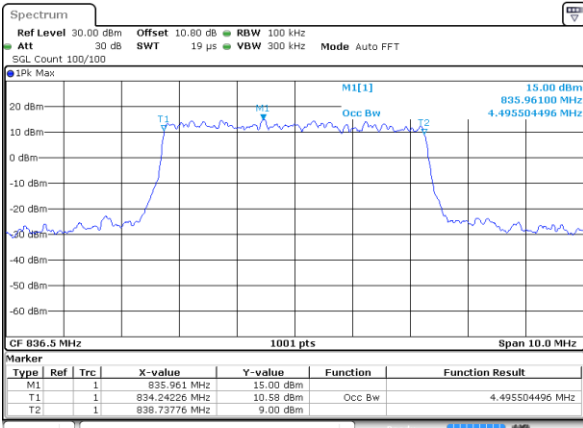
Date: 26 SEP 2017 08:57:59

Lowest Channel / 5MHz / 16QAM



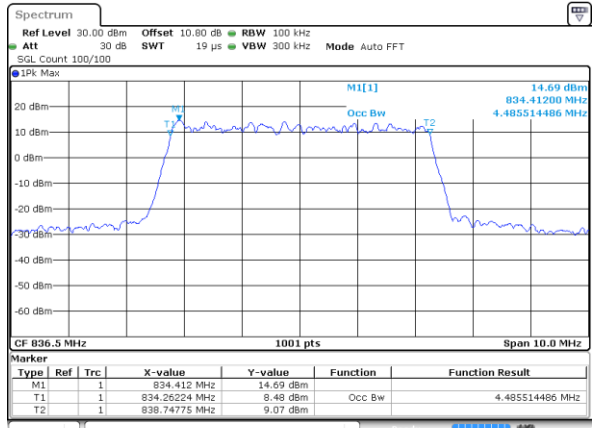
Date: 26 SEP 2017 08:58:09

Middle Channel / 5MHz / QPSK



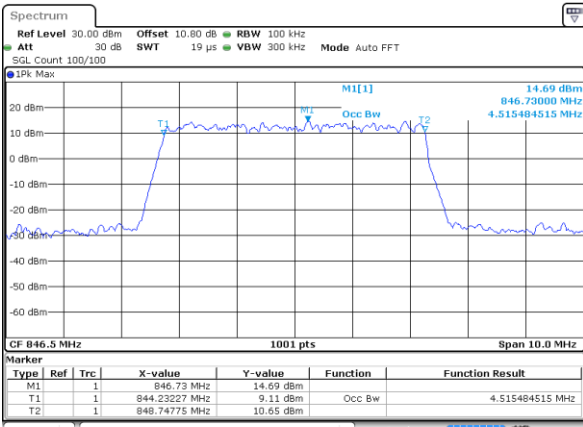
Date: 26 SEP 2017 09:08:40

Middle Channel / 5MHz / 16QAM



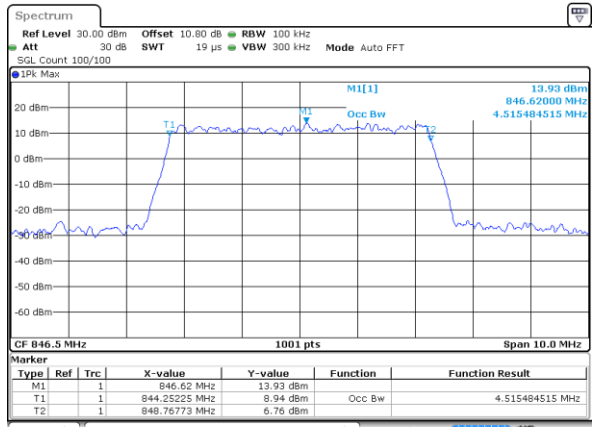
Date: 26 SEP 2017 09:08:50

Highest Channel / 5MHz / QPSK



Date: 26 SEP 2017 09:11:08

Highest Channel / 5MHz / 16QAM

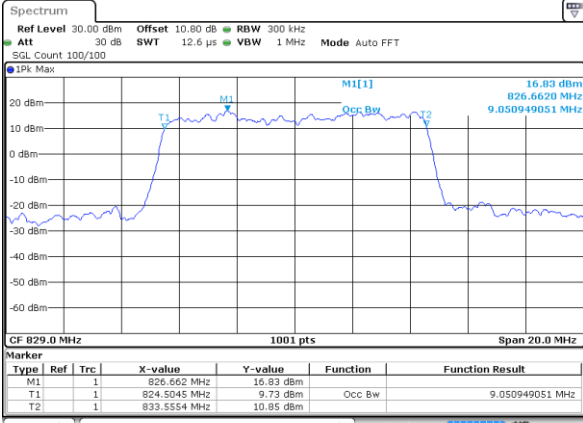


Date: 26 SEP 2017 09:11:18



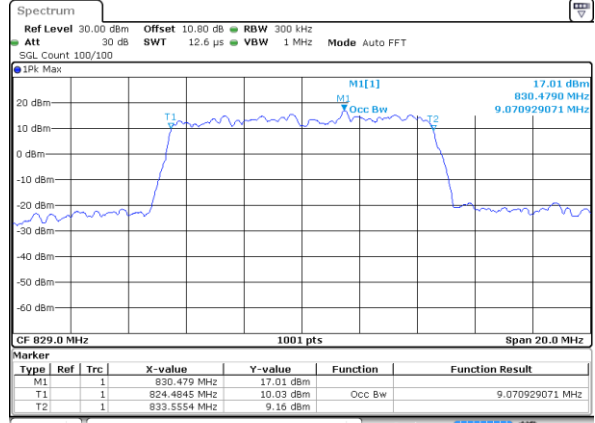
LTE Band 5

Lowest Channel / 10MHz / QPSK



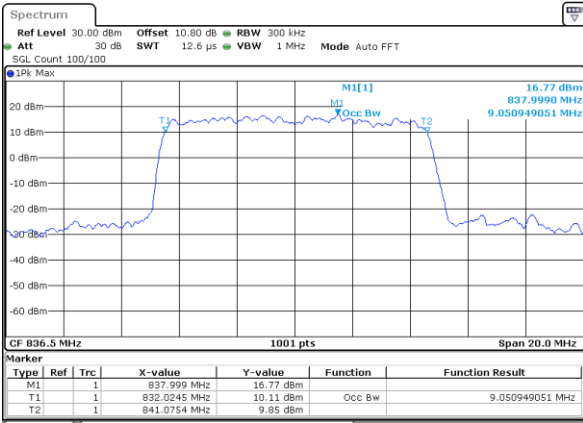
Date: 26 SEP 2017 09:20:10

Lowest Channel / 10MHz / 16QAM



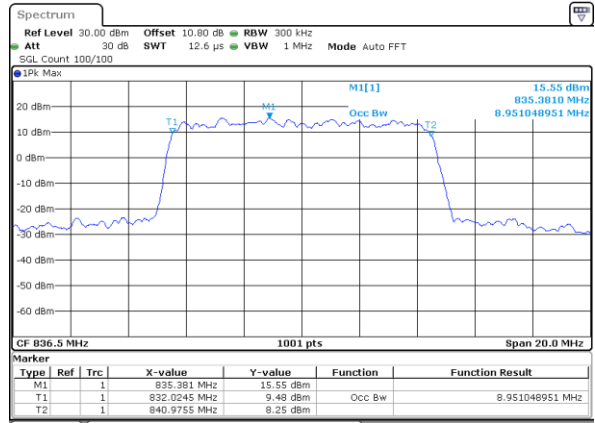
Date: 26 SEP 2017 09:20:20

Middle Channel / 10MHz / QPSK



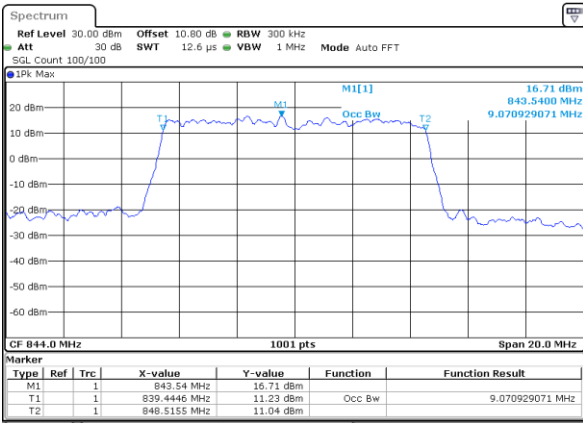
Date: 26 SEP 2017 09:29:12

Middle Channel / 10MHz / 16QAM



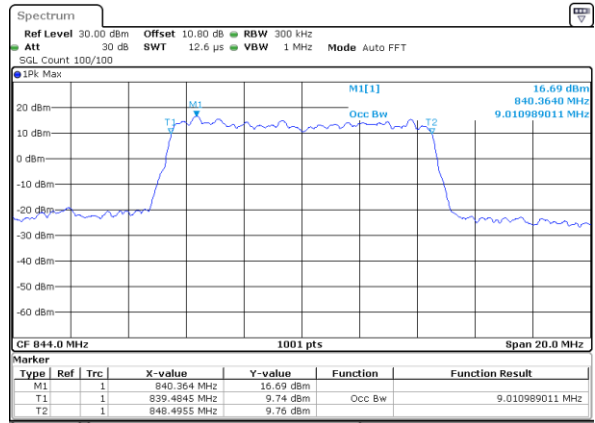
Date: 26 SEP 2017 09:29:22

Highest Channel / 10MHz / QPSK



Date: 26 SEP 2017 09:31:40

Highest Channel / 10MHz / 16QAM



Date: 26 SEP 2017 09:31:50

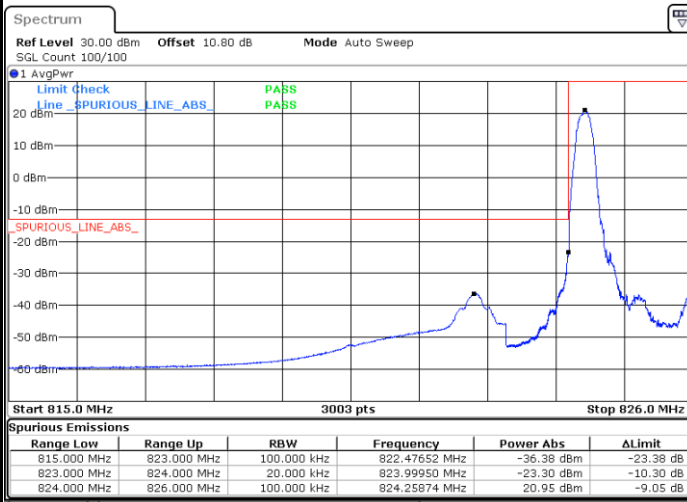


Conducted Band Edge



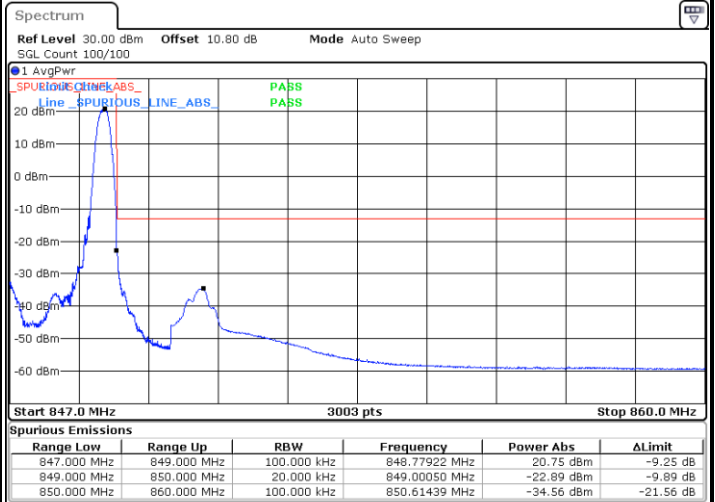
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



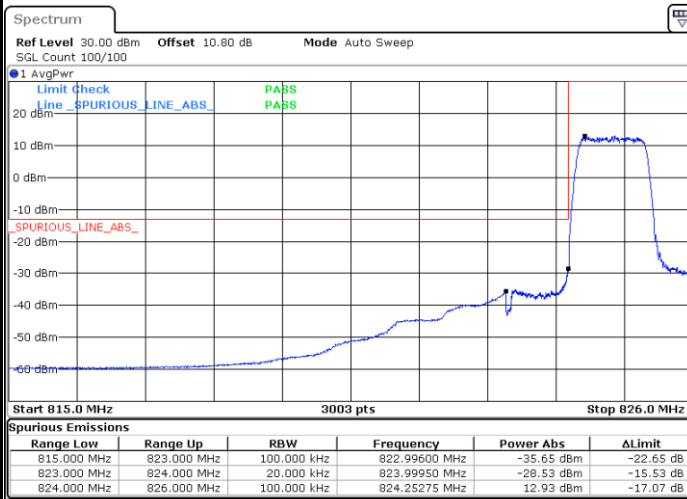
Date: 26 SEP 2017 09:44:50

Highest Band Edge / 1RB



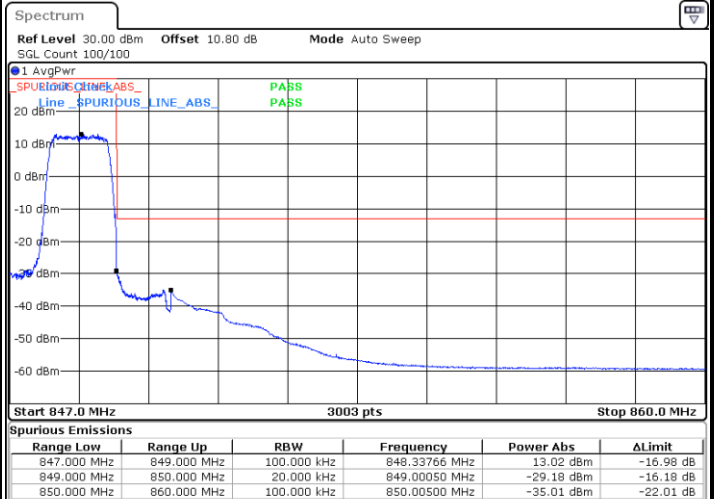
Date: 26 SEP 2017 09:59:37

Lowest Band Edge / Full RB



Date: 26 SEP 2017 09:48:07

Highest Band Edge / Full RB

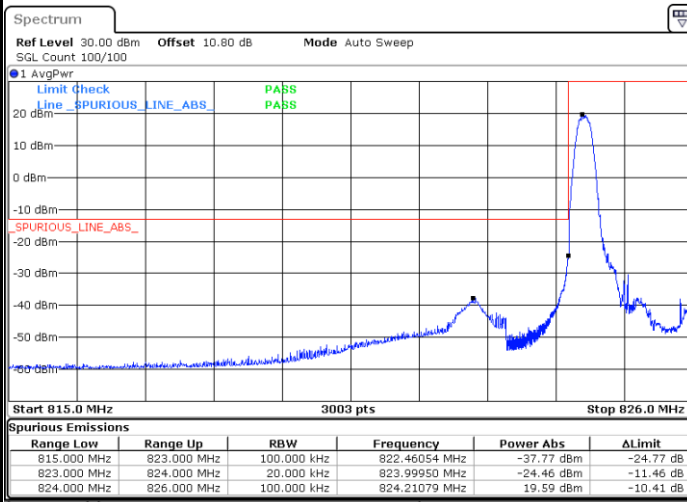


Date: 26 SEP 2017 09:56:20



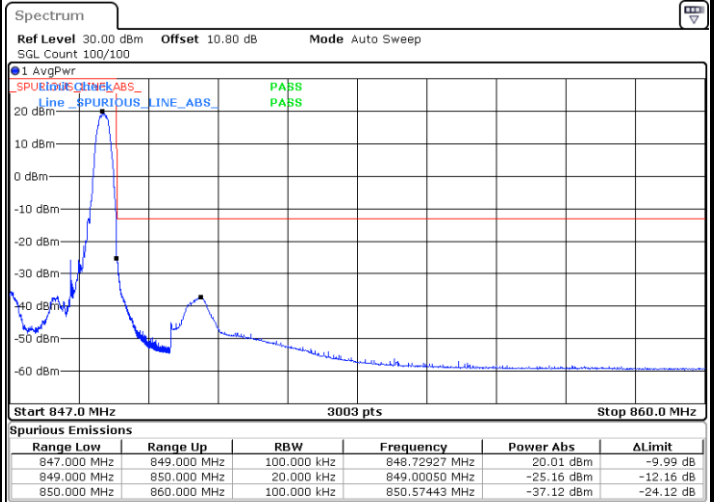
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



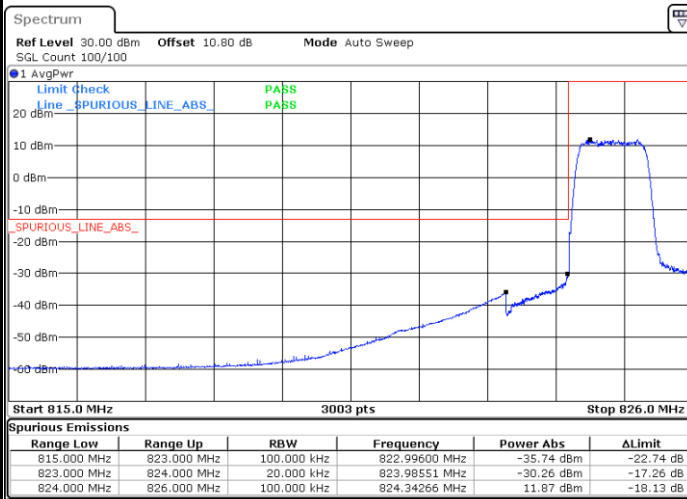
Date: 26 SEP 2017 09:46:29

Highest Band Edge / 1 RB



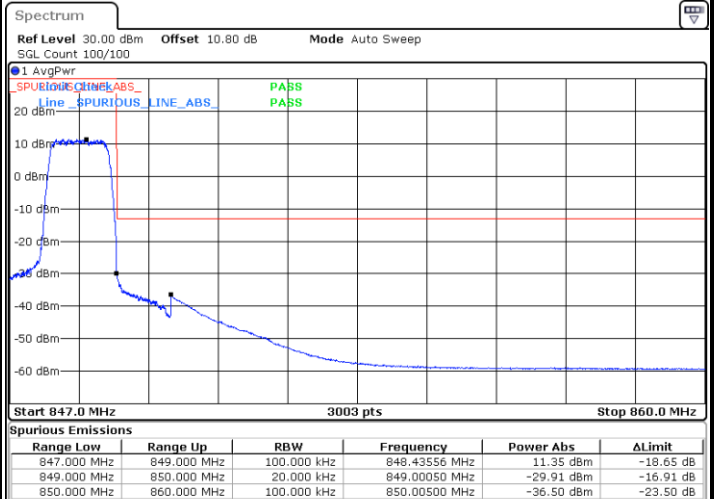
Date: 26 SEP.2017 10:01:16

Lowest Band Edge / Full RB



Date: 26 SEP 2017 09:49:46

Highest Band Edge / Full RB

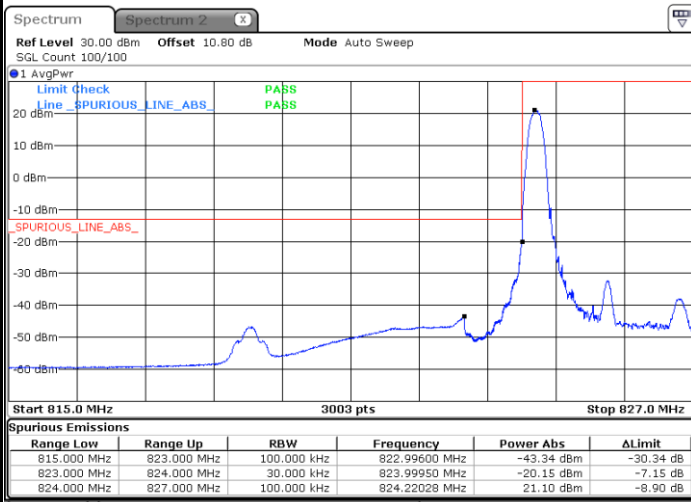


Date: 26 SEP.2017 09:57:58



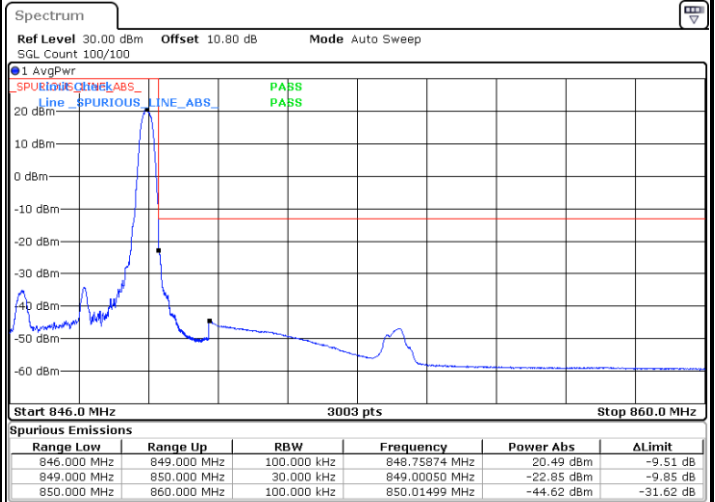
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



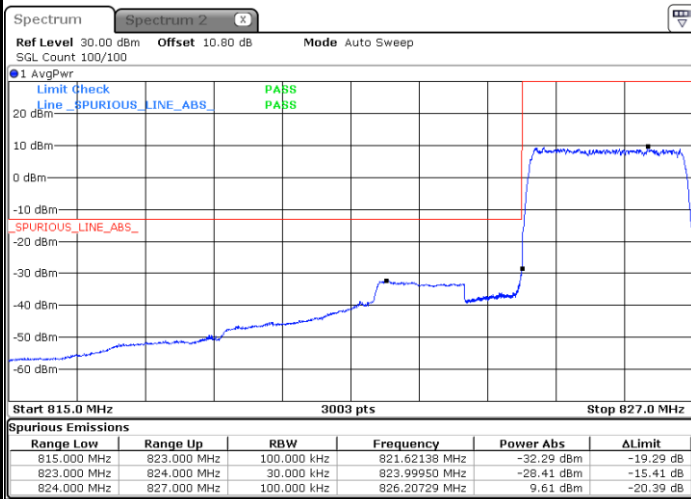
Date: 26 SEP 2017 01:55:17

Highest Band Edge / 1 RB



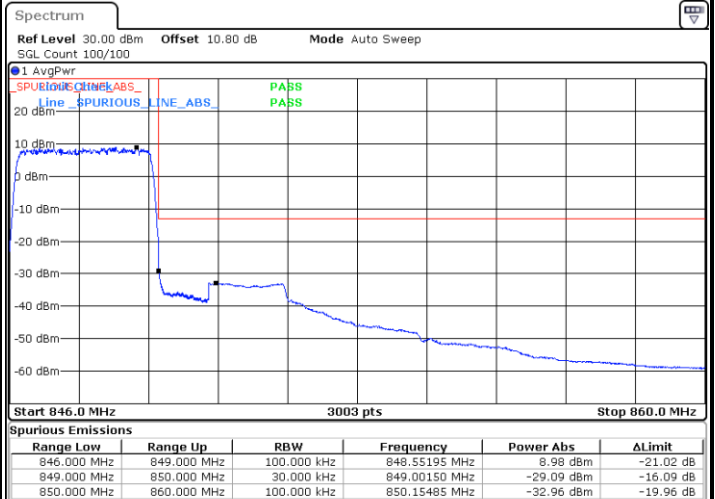
Date: 26 SEP.2017 08:51:04

Lowest Band Edge / Full RB



Date: 26 SEP 2017 01:58:35

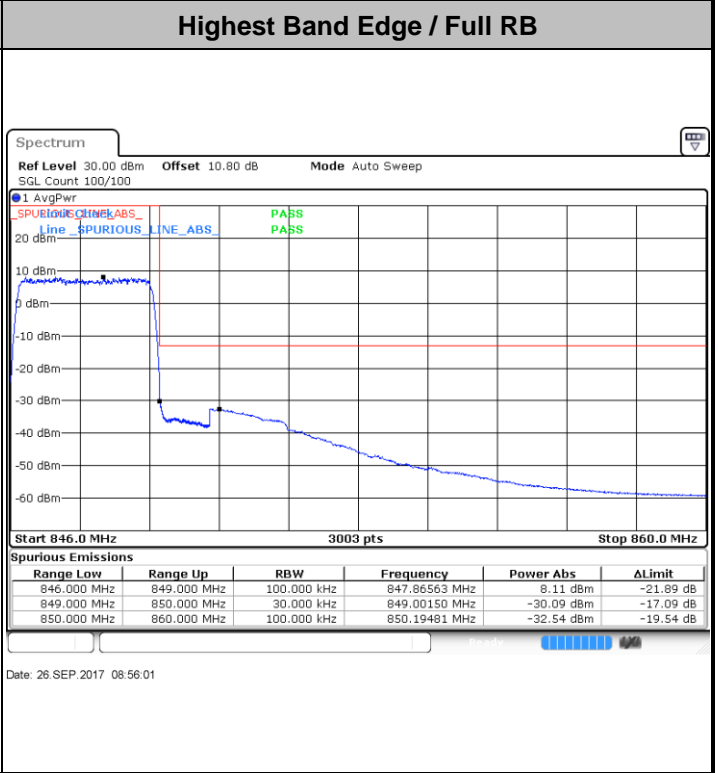
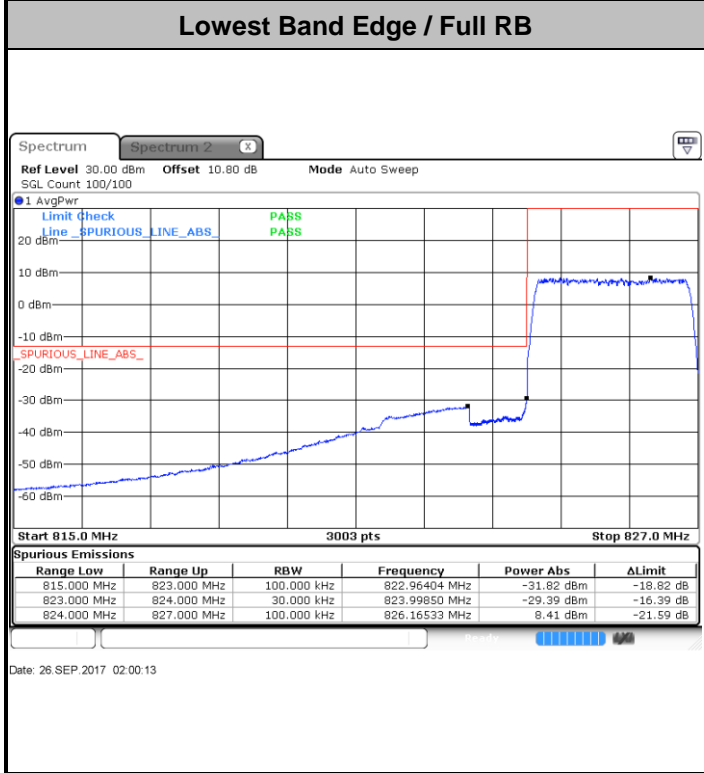
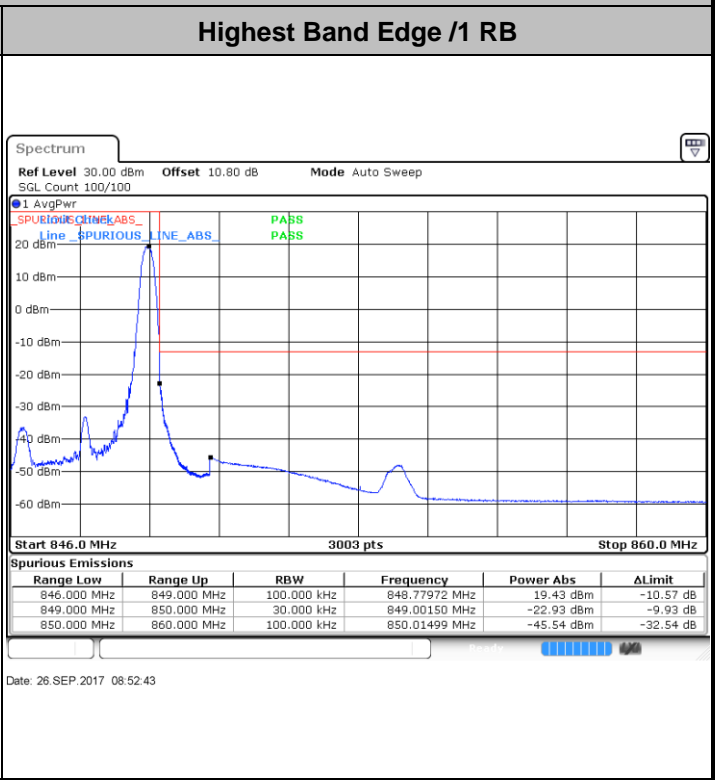
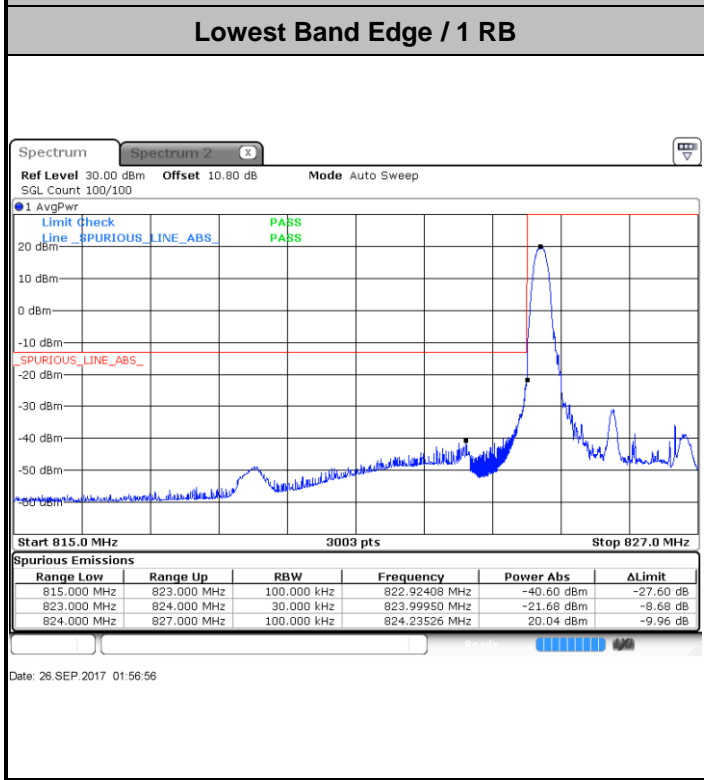
Highest Band Edge / Full RB



Date: 26 SEP 2017 08:54:22



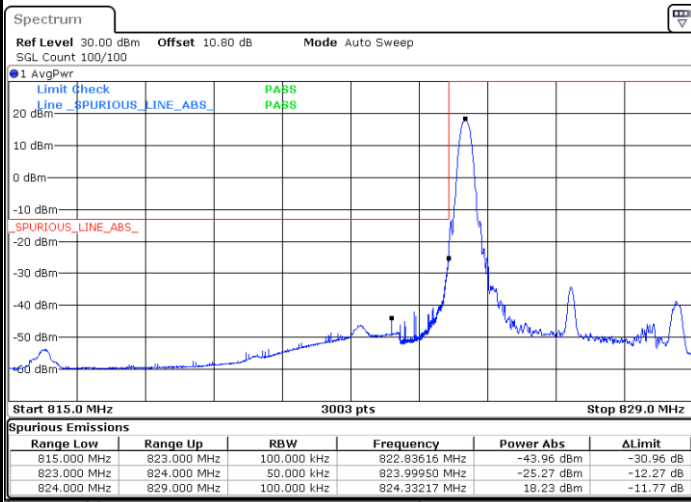
LTE Band 5 / 3MHz / 16QAM





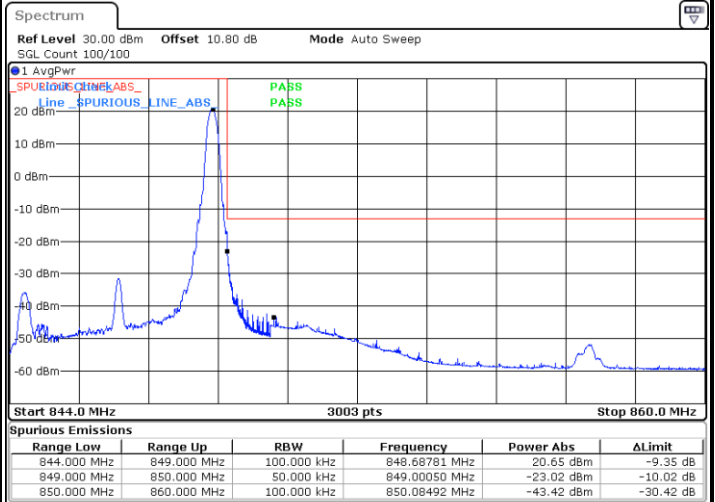
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



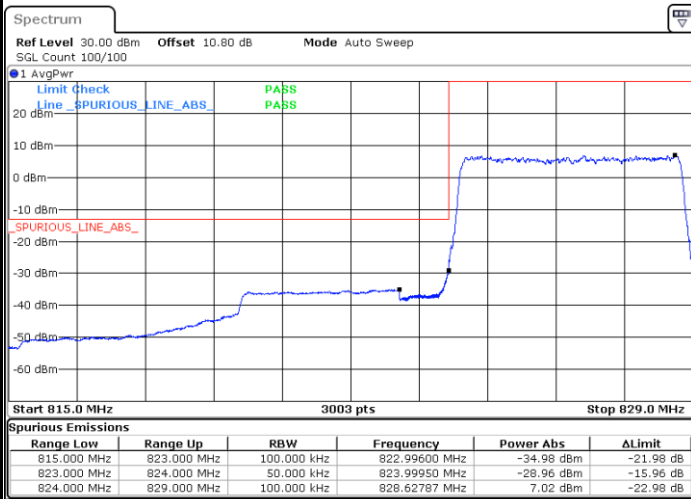
Date: 26 SEP 2017 09:00:07

Highest Band Edge / 1 RB



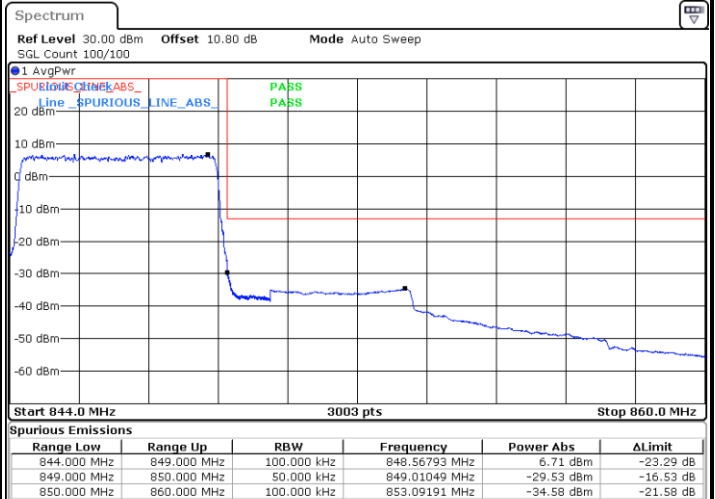
Date: 26 SEP 2017 09:13:16

Lowest Band Edge / Full RB



Date: 26 SEP 2017 09:05:04

Highest Band Edge / Full RB

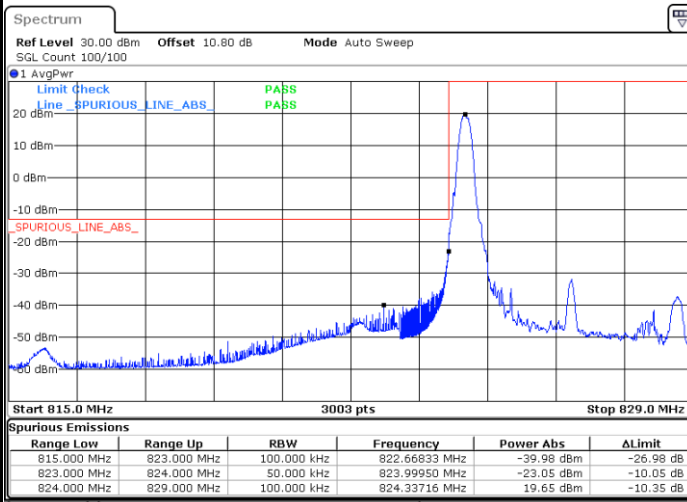


Date: 26 SEP 2017 09:16:33



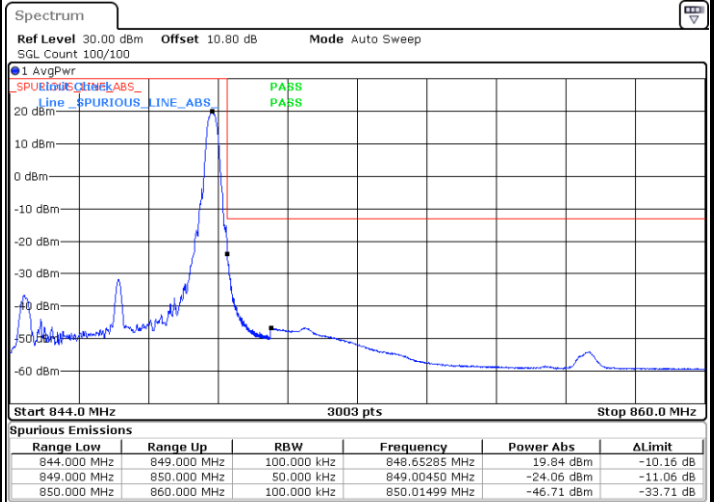
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



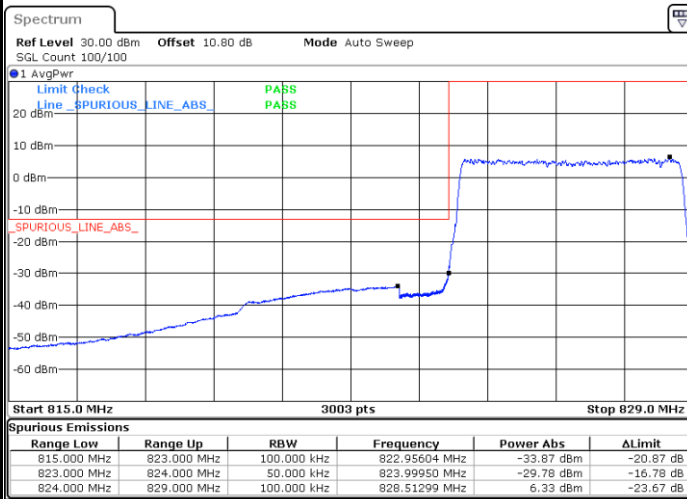
Date: 26 SEP 2017 09:03:25

Highest Band Edge / 1 RB



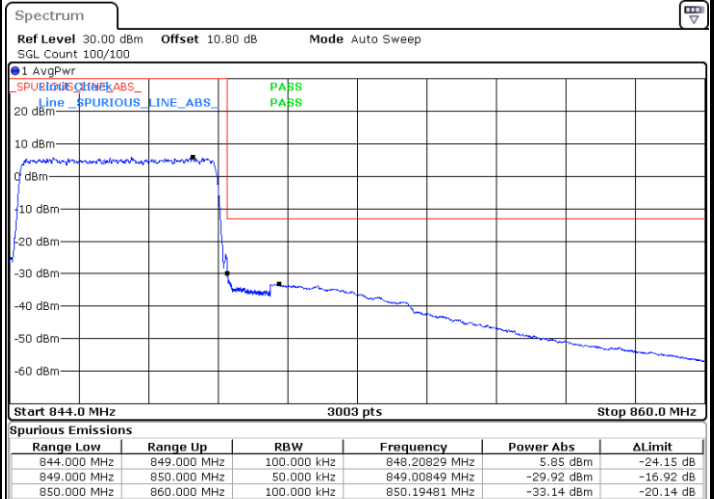
Date: 26 SEP 2017 09:14:55

Lowest Band Edge / Full RB



Date: 26 SEP 2017 09:06:43

Highest Band Edge / Full RB

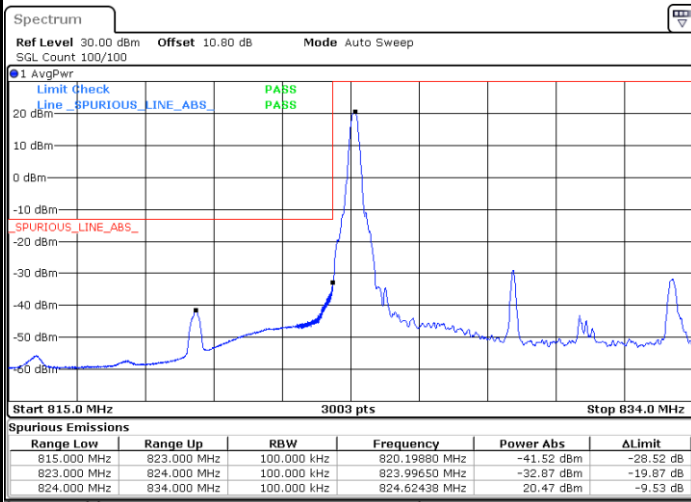


Date: 26 SEP 2017 09:18:12



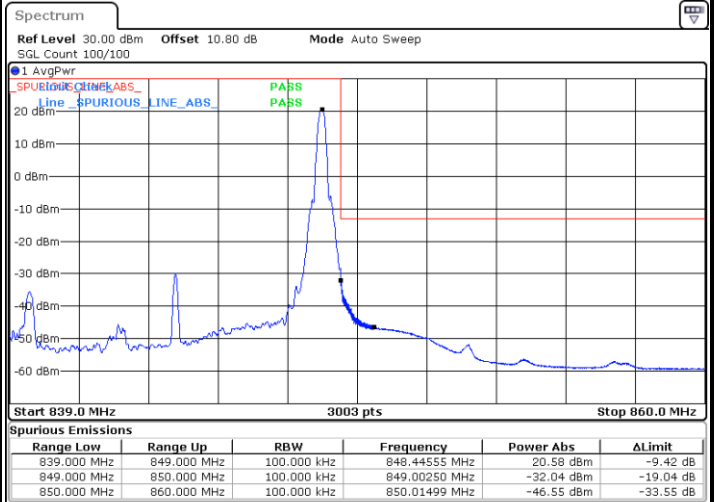
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



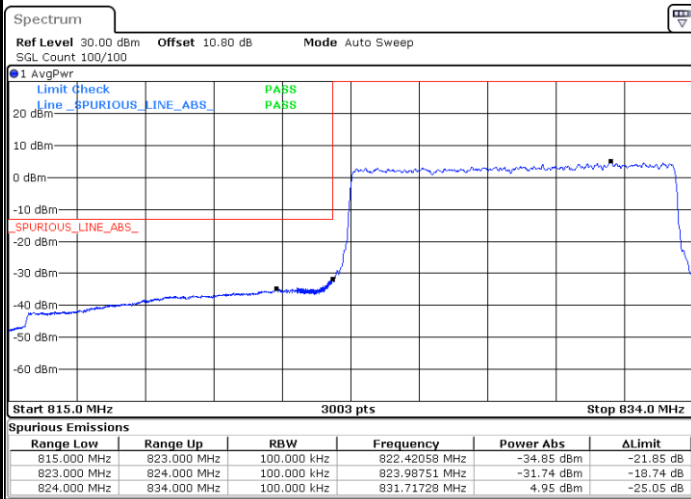
Date: 26 SEP 2017 09:22:18

Highest Band Edge / 1 RB



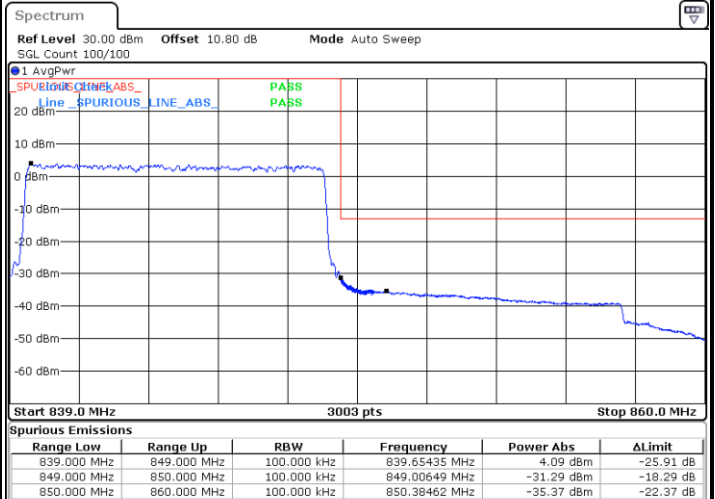
Date: 26 SEP.2017 09:33:48

Lowest Band Edge / Full RB



Date: 26 SEP 2017 09:25:36

Highest Band Edge / Full RB

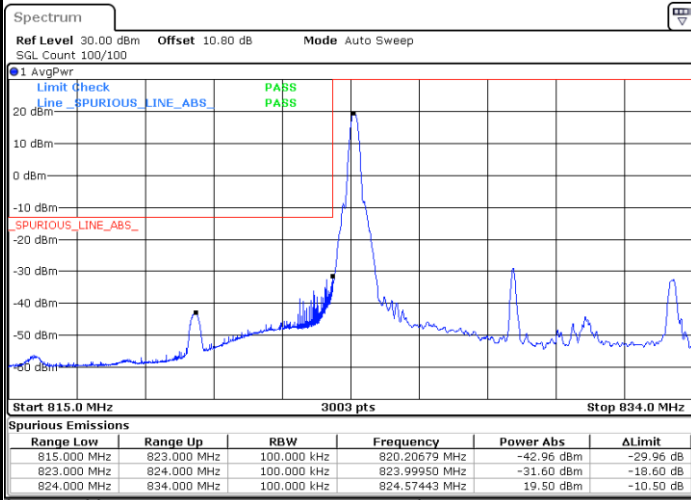


Date: 26 SEP.2017 09:37:06



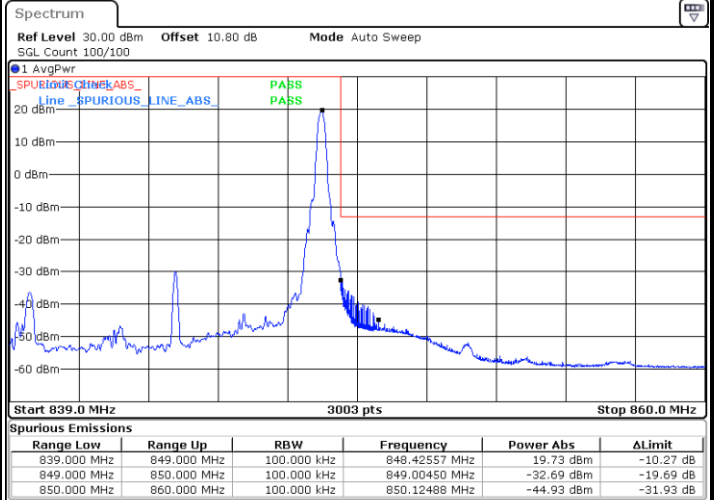
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



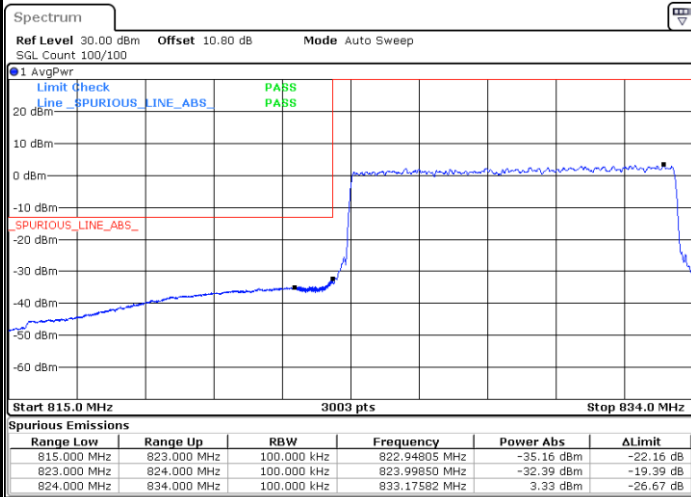
Date: 26 SEP 2017 09:23:57

Highest Band Edge / 1 RB



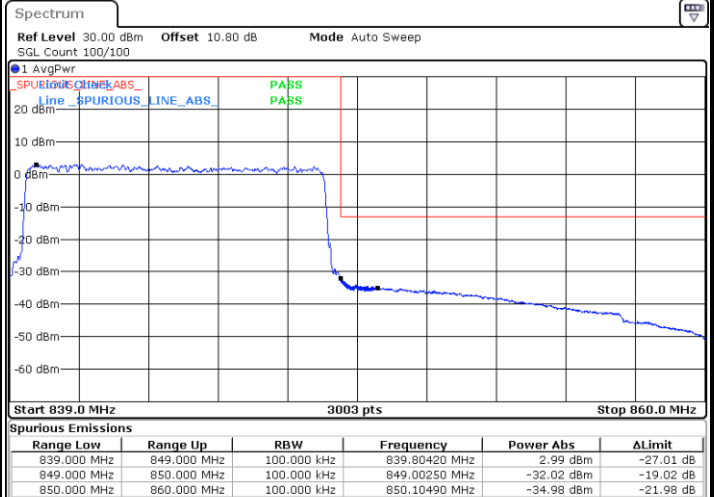
Date: 26 SEP 2017 09:35:27

Lowest Band Edge / Full RB



Date: 26 SEP 2017 09:27:14

Highest Band Edge / Full RB



Date: 26 SEP 2017 09:38:44



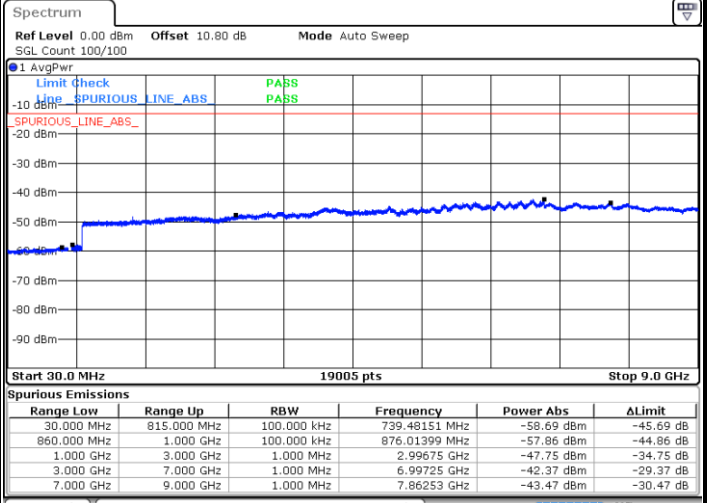
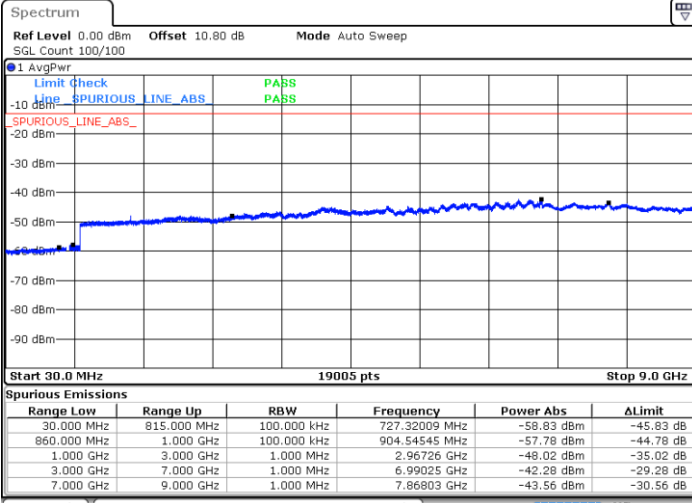
Conducted Spurious Emission



LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

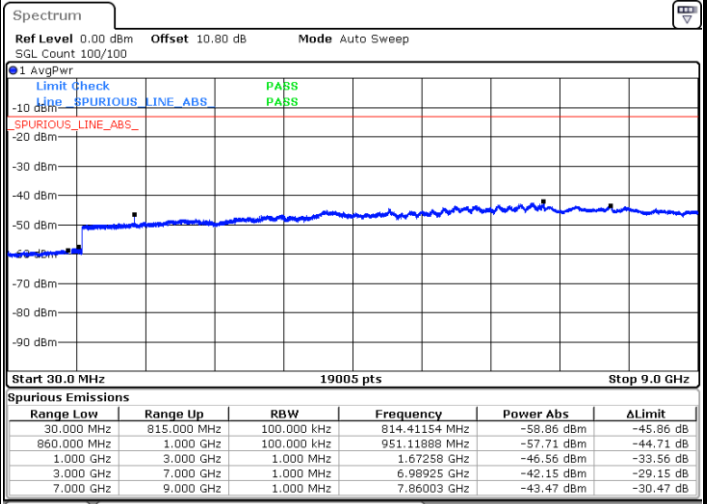
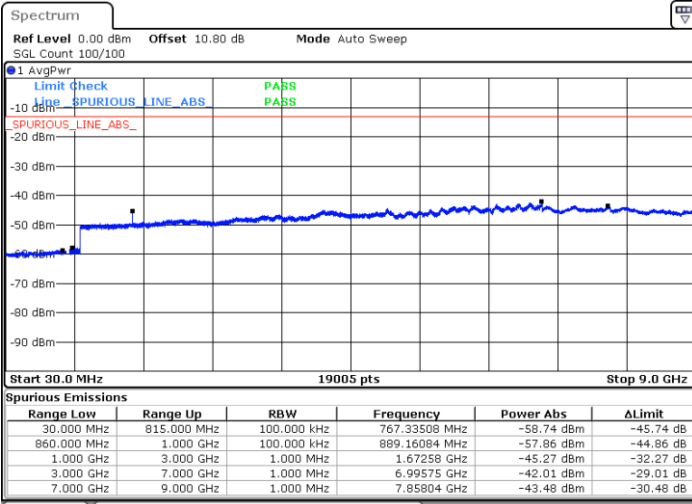


Date: 26 SEP.2017 09:50:40

Date: 26 SEP.2017 09:51:34

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 26 SEP.2017 09:53:08

Date: 26 SEP.2017 09:54:01