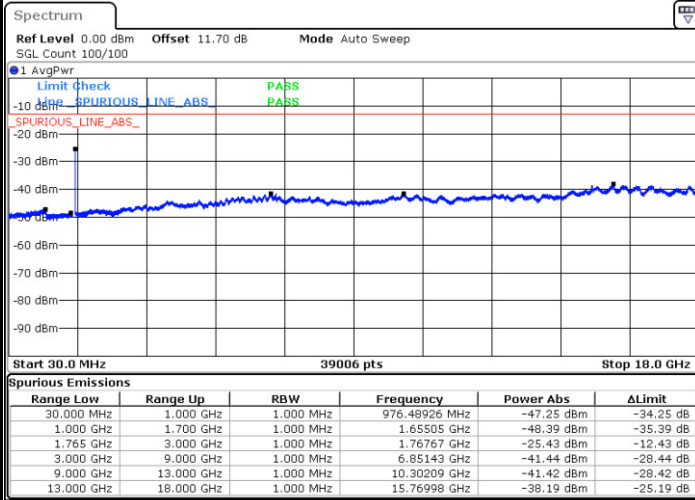




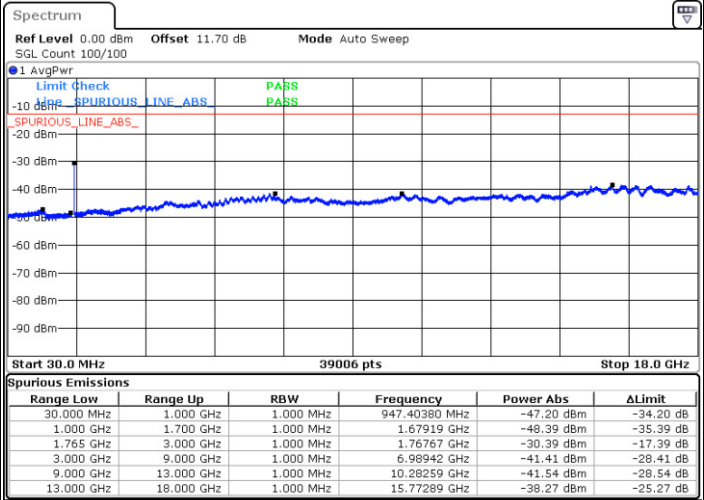
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 4 JAN 2018 13:03:17

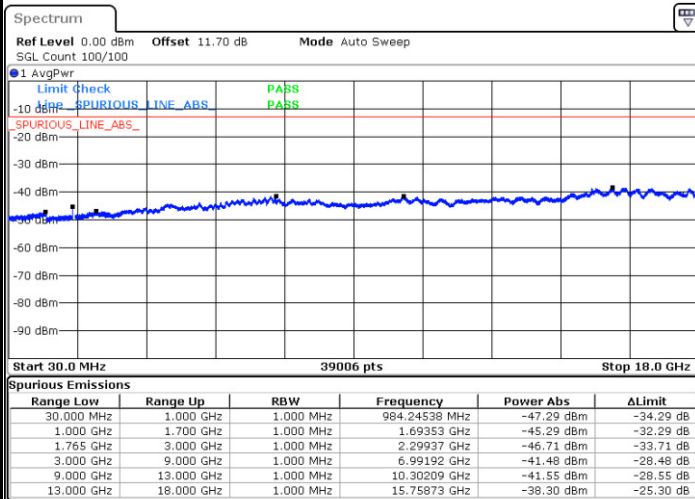
Highest Channel / 16QAM



Date: 4 JAN 2018 13:04:11

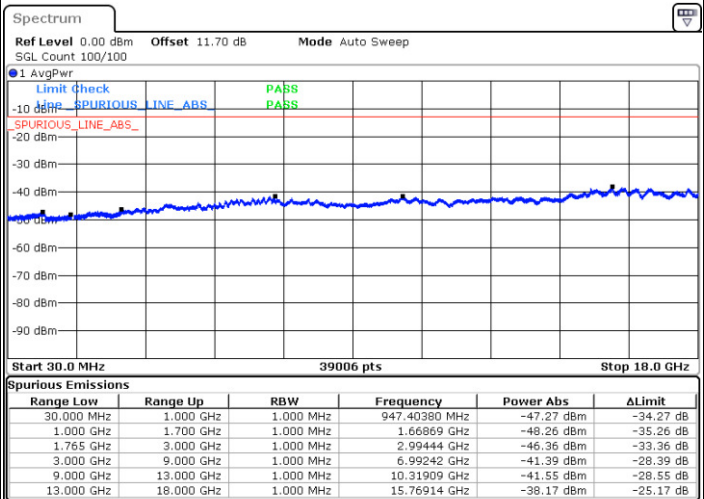
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 4 JAN 2018 13:10:20

Lowest Channel / 16QAM



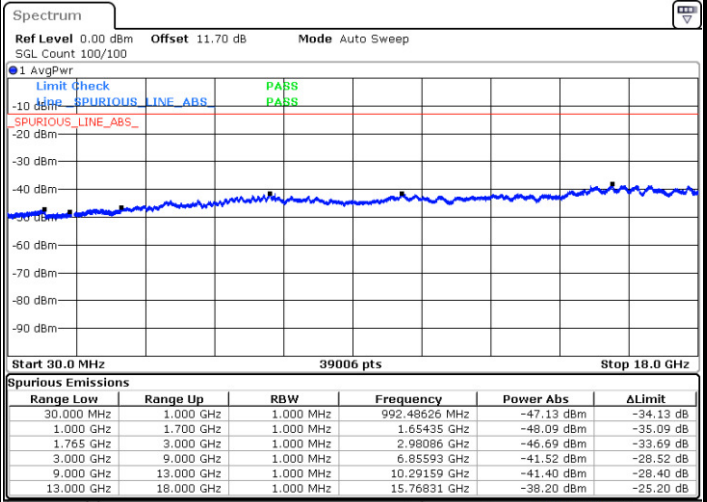
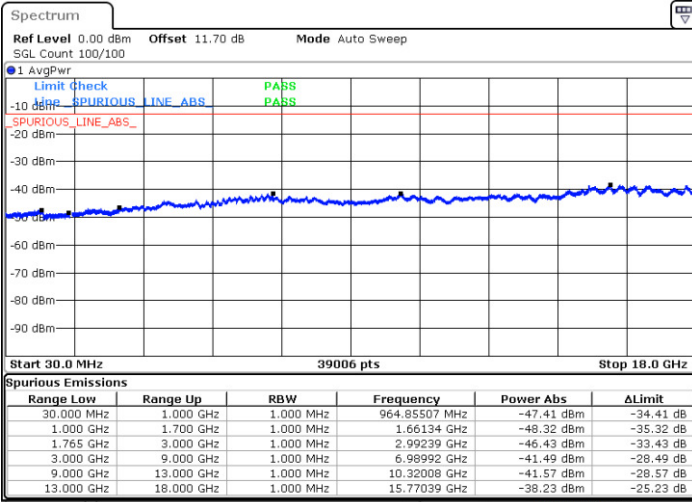
Date: 4 JAN 2018 13:11:14



LTE Band 4 / 20MHz

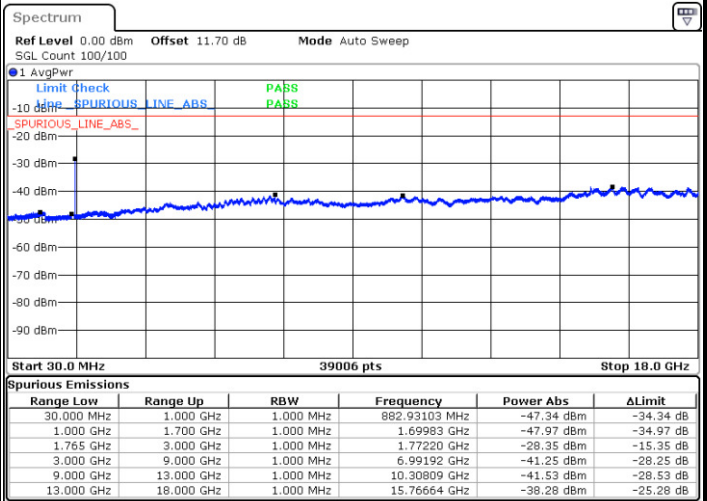
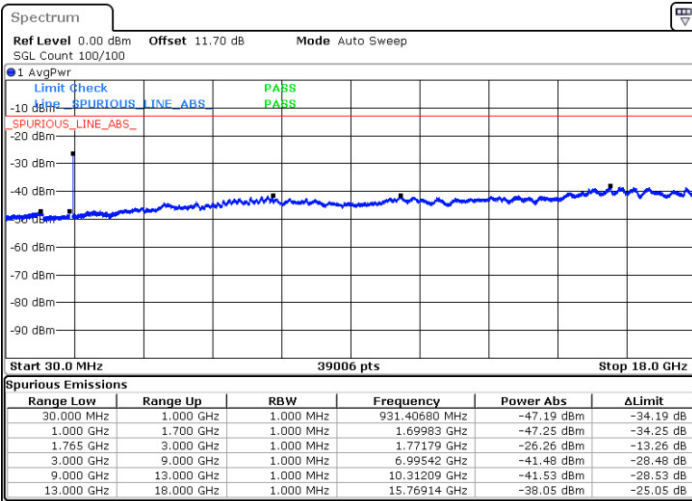
Middle Channel / QPSK

Middle Channel / 16QAM



Highest Channel / QPSK

Highest Channel / 16QAM





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	0.0006	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 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	4.93	5.07	5.39	6.09	PASS
Middle CH	4.99	4.96	5.74	5.91	
Highest CH	4.52	4.81	5.28	5.71	



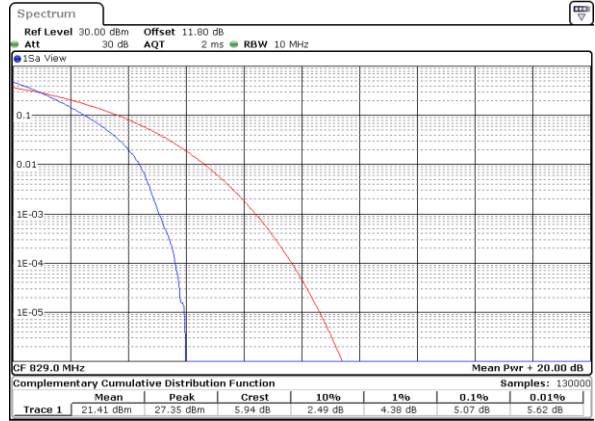
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 6.JAN.2018 13:57:36

Lowest Channel / Full RB



Date: 6.JAN.2018 13:57:45

Middle Channel / 1RB



Date: 6.JAN.2018 13:57:54

Middle Channel / Full RB



Date: 6.JAN.2018 13:58:05

Highest Channel / 1RB



Date: 6.JAN.2018 13:58:18

Highest Channel / Full RB

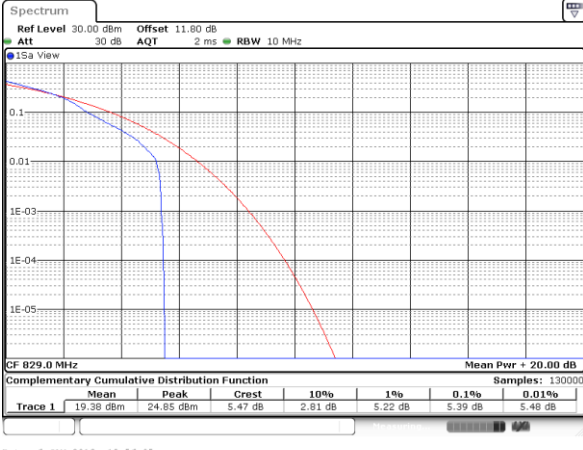


Date: 6.JAN.2018 13:58:28



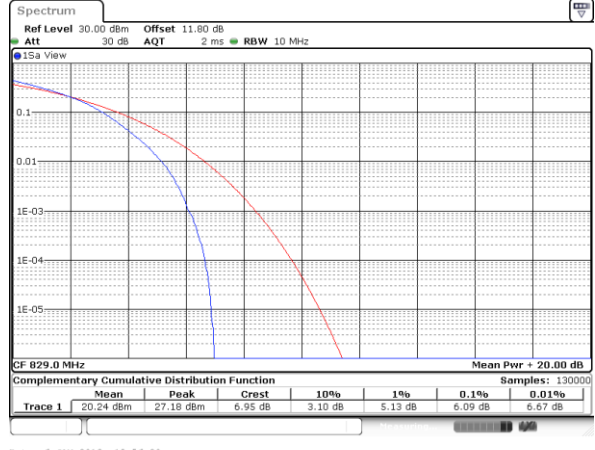
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



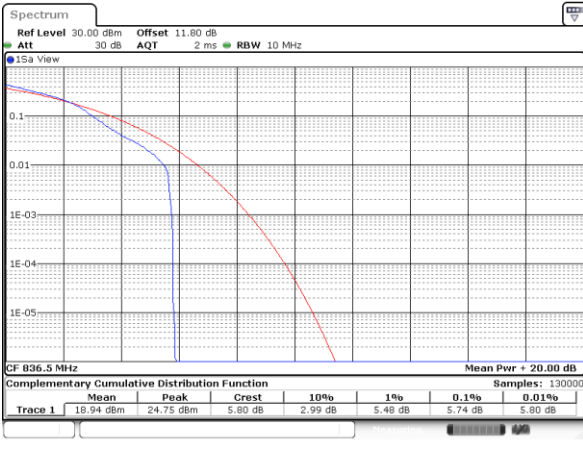
Date: 6 JAN 2018 13:56:05

Lowest Channel / Full RB



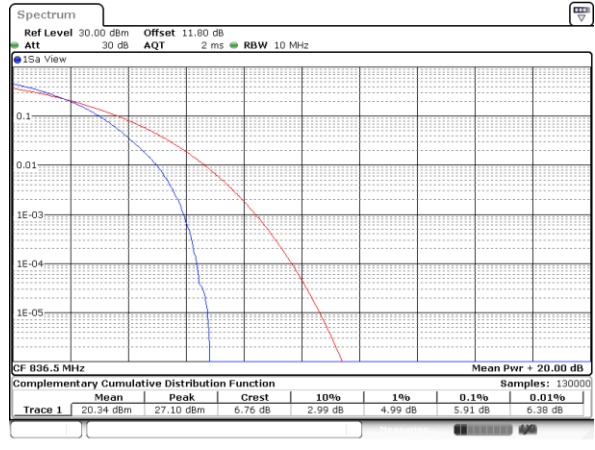
Date: 6 JAN 2018 13:56:20

Middle Channel / 1RB



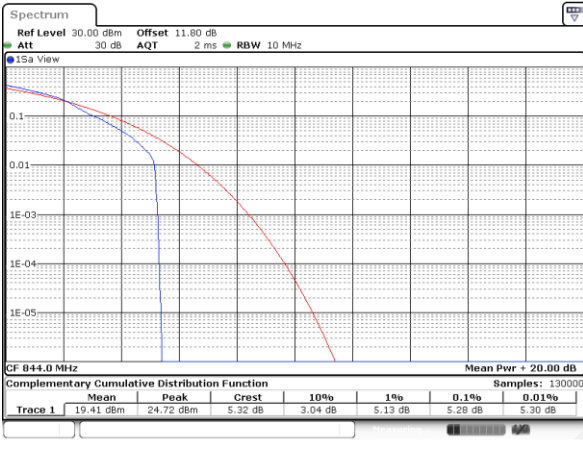
Date: 6 JAN 2018 13:56:32

Middle Channel / Full RB



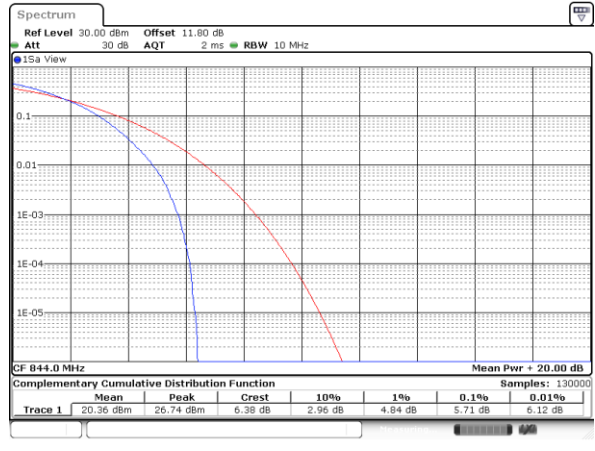
Date: 6 JAN 2018 13:56:51

Highest Channel / 1RB



Date: 6 JAN 2018 13:57:18

Highest Channel / Full RB



Date: 6 JAN 2018 13:57:27



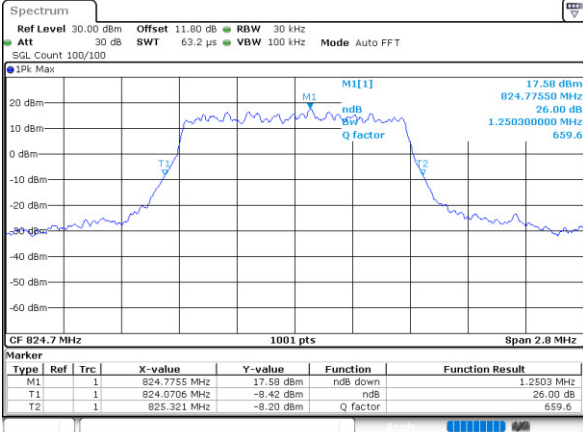
26dB Bandwidth

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	1.25	1.27	2.99	2.99	4.98	4.95	9.73	9.75	-	-	-	-
Middle CH	1.26	1.24	3.00	2.99	4.96	5.02	9.65	9.71	-	-	-	-
Highest CH	1.28	1.32	3.00	3.03	4.93	4.90	9.89	9.73	-	-	-	-



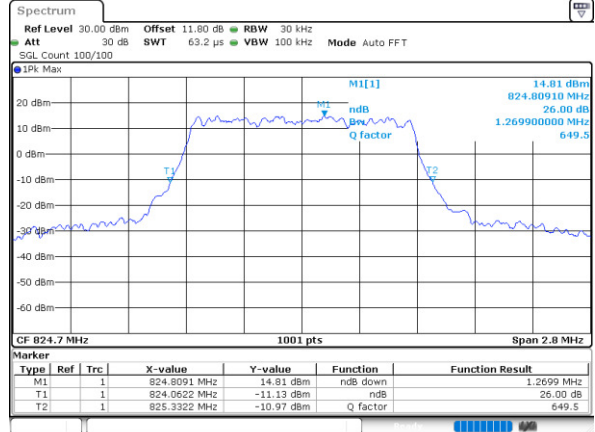
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



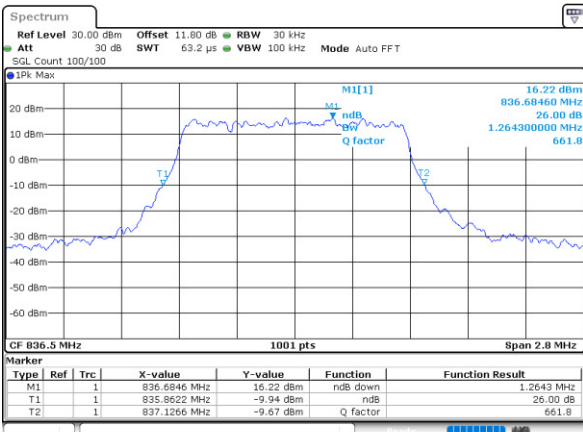
Date: 6, JAN, 2018 01:27:08

Lowest Channel / 1.4MHz / 16QAM



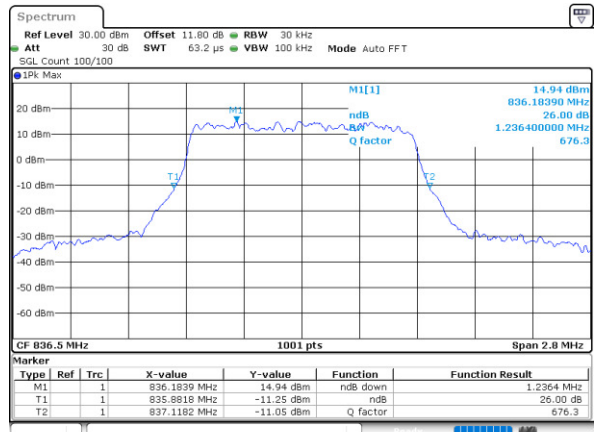
Date: 6, JAN, 2018 01:26:58

Middle Channel / 1.4MHz / QPSK



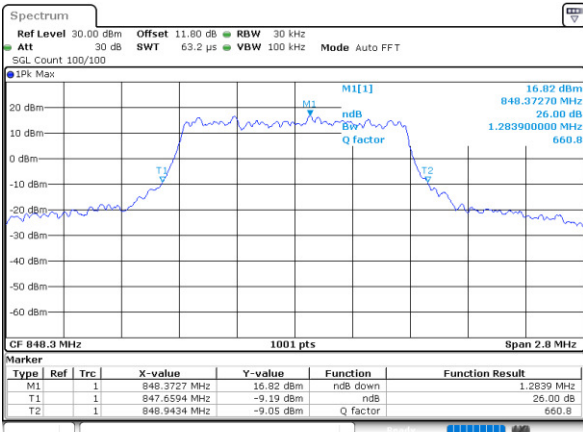
Date: 6, JAN, 2018 01:35:55

Middle Channel / 1.4MHz / 16QAM



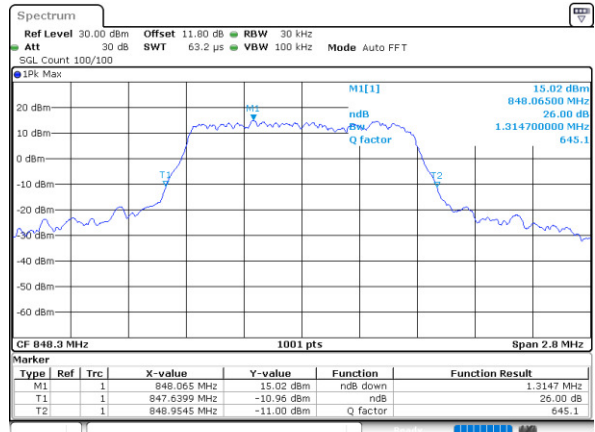
Date: 6, JAN, 2018 01:36:05

Highest Channel / 1.4MHz / QPSK



Date: 6, JAN, 2018 01:38:21

Highest Channel / 1.4MHz / 16QAM

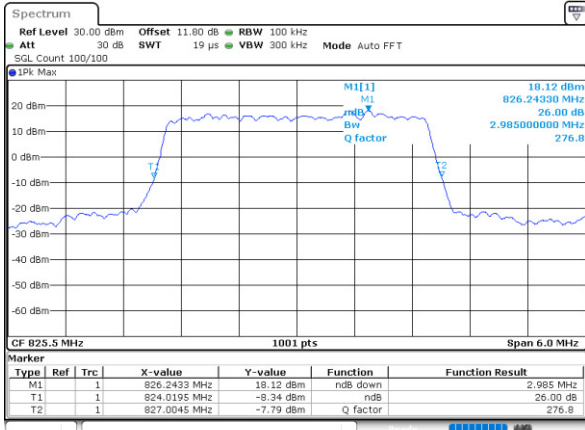


Date: 6, JAN, 2018 01:38:31



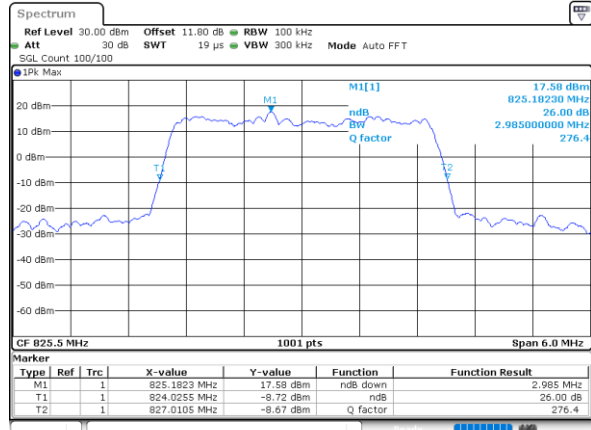
LTE Band 5

Lowest Channel / 3MHz / QPSK



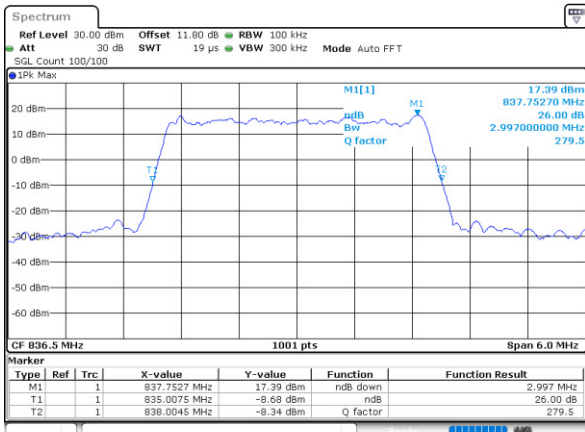
Date: 6,JAN,2018 00:24:59

Lowest Channel / 3MHz / 16QAM



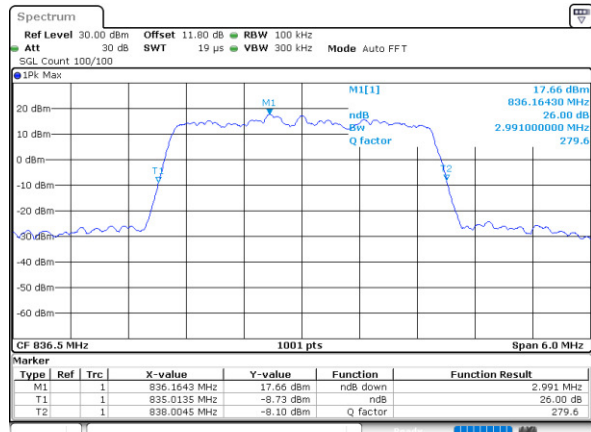
Date: 6,JAN,2018 00:25:09

Middle Channel / 3MHz / QPSK



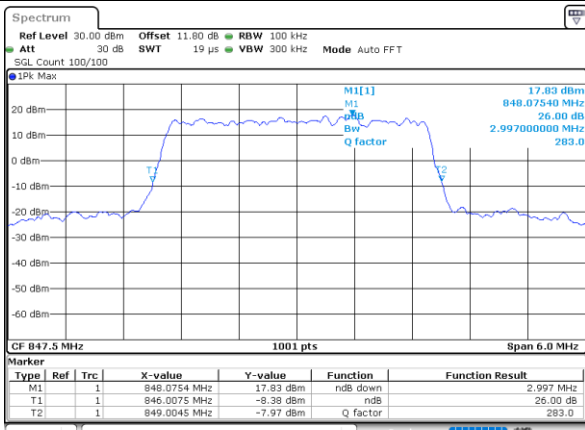
Date: 6,JAN,2018 00:33:57

Middle Channel / 3MHz / 16QAM



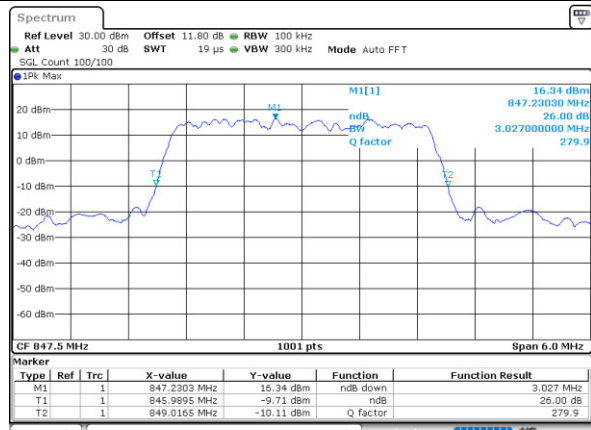
Date: 6,JAN,2018 00:34:06

Highest Channel / 3MHz / QPSK



Date: 6,JAN,2018 00:36:22

Highest Channel / 3MHz / 16QAM

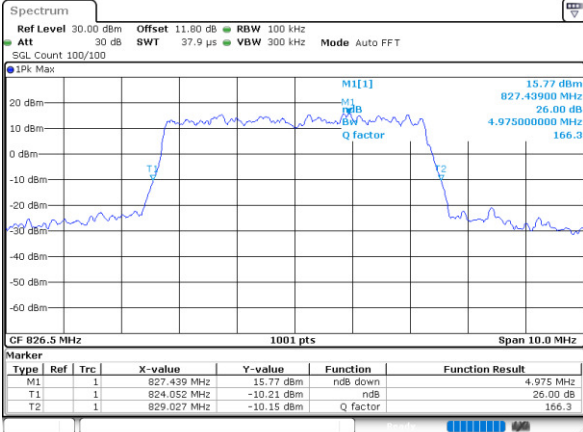


Date: 6,JAN,2018 00:36:32



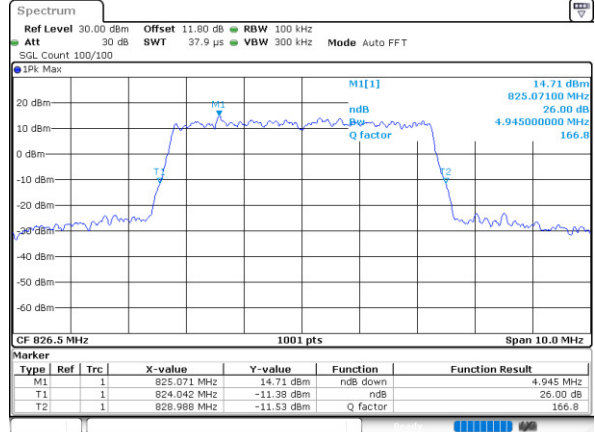
LTE Band 5

Lowest Channel / 5MHz / QPSK



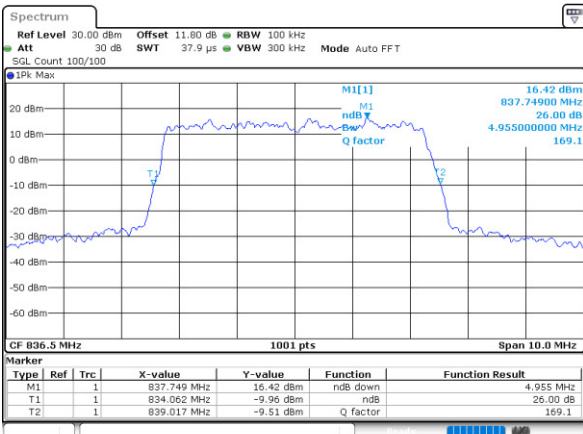
Date: 6, JAN, 2018 00:45:20

Lowest Channel / 5MHz / 16QAM



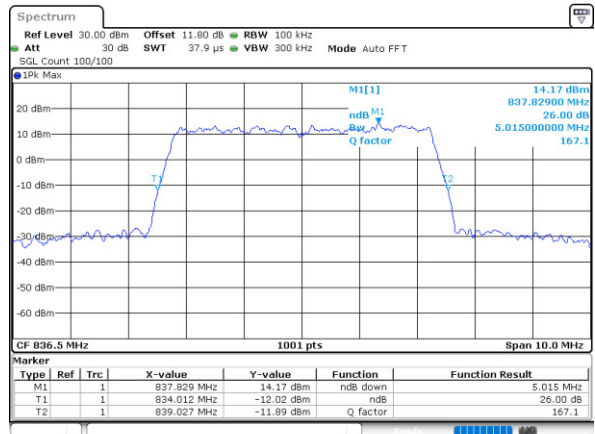
Date: 6, JAN, 2018 00:45:30

Middle Channel / 5MHz / QPSK



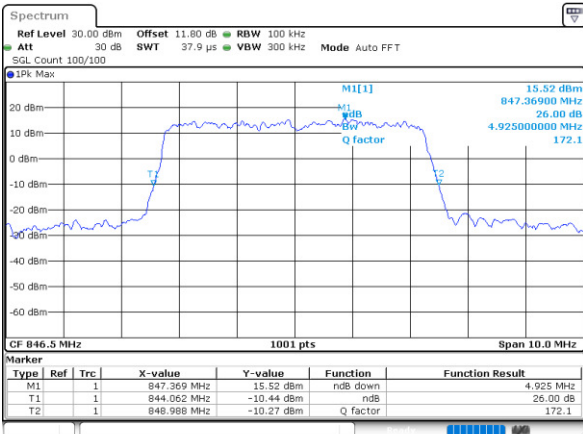
Date: 6, JAN, 2018 00:54:17

Middle Channel / 5MHz / 16QAM



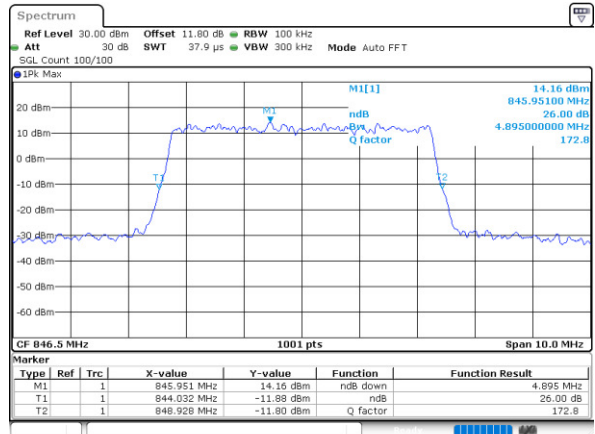
Date: 6, JAN, 2018 00:54:27

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 00:56:43

Highest Channel / 5MHz / 16QAM

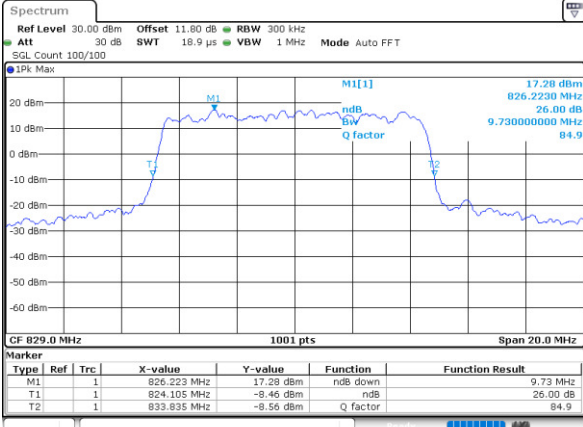


Date: 6, JAN, 2018 00:56:52



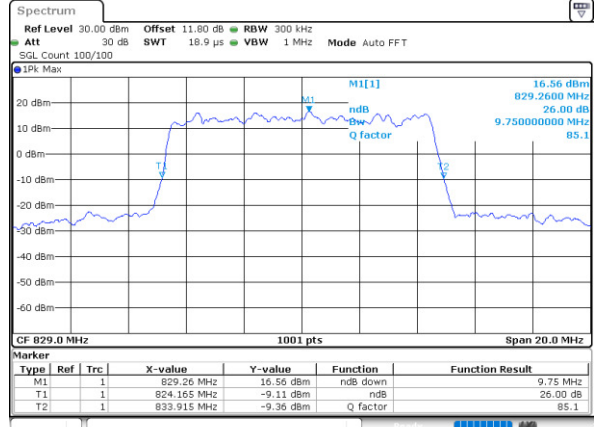
LTE Band 5

Lowest Channel / 10MHz / QPSK



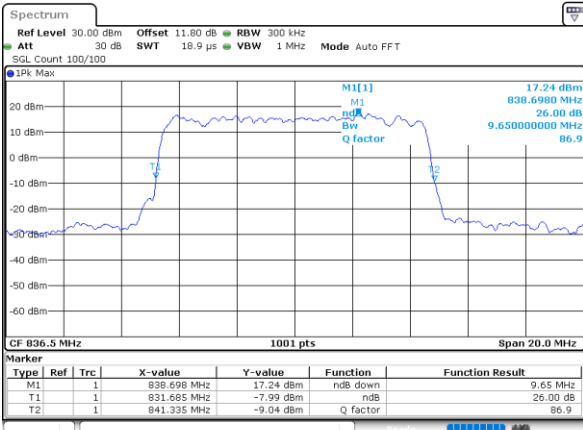
Date: 6, JAN, 2018 01:05:40

Lowest Channel / 10MHz / 16QAM



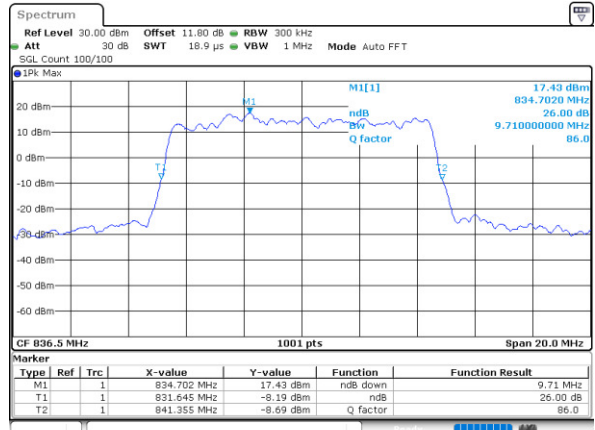
Date: 6, JAN, 2018 01:05:50

Middle Channel / 10MHz / QPSK



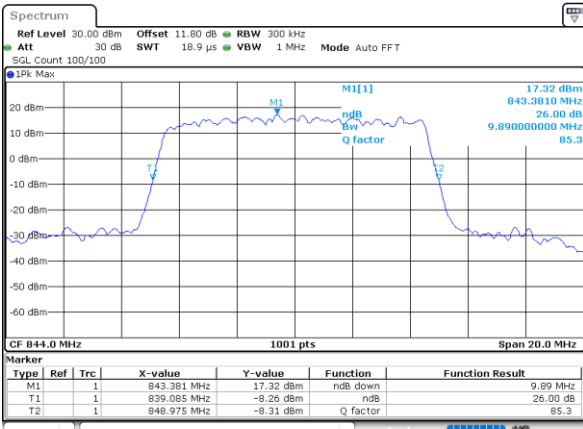
Date: 6, JAN, 2018 01:14:37

Middle Channel / 10MHz / 16QAM



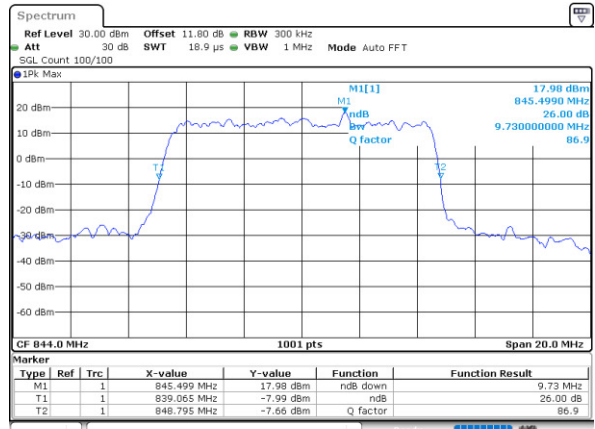
Date: 6, JAN, 2018 01:14:47

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 01:17:03

Highest Channel / 10MHz / 16QAM



Date: 6, JAN, 2018 01:17:13



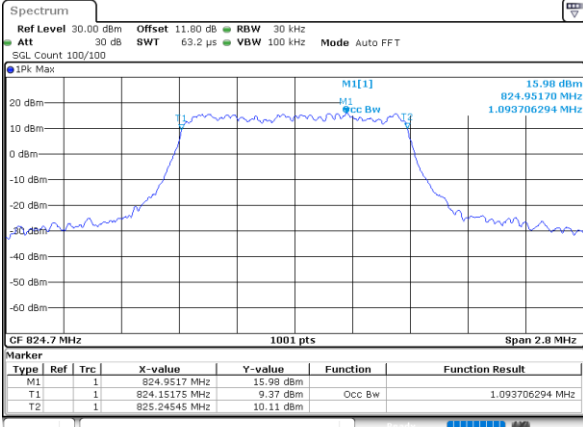
Occupied Bandwidth

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	1.1	2.72	2.72	4.49	4.48	9.01	9.05	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.48	4.52	9.03	9.05	-	-	-	-
Highest CH	1.1	1.09	2.73	2.72	4.49	4.49	9.01	8.97	-	-	-	-



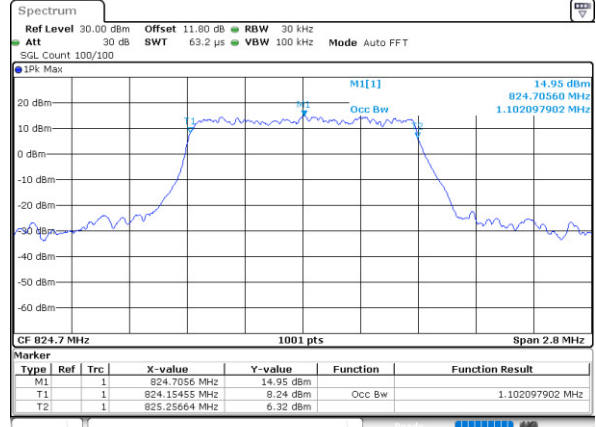
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



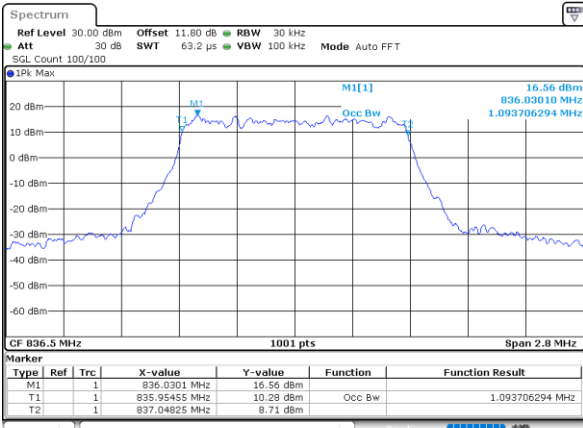
Date: 6, JAN, 2018 01:26:18

Lowest Channel / 1.4MHz / 16QAM



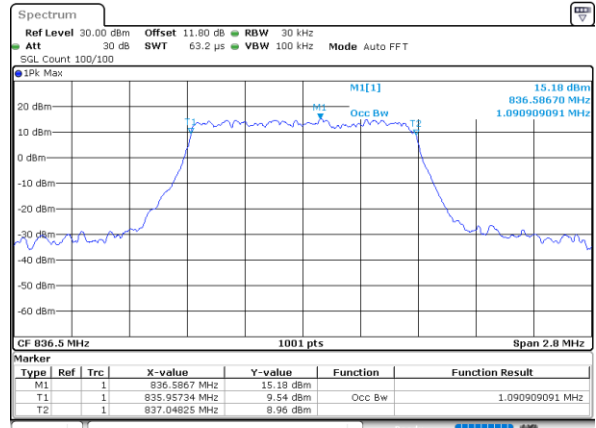
Date: 6, JAN, 2018 01:26:48

Middle Channel / 1.4MHz / QPSK



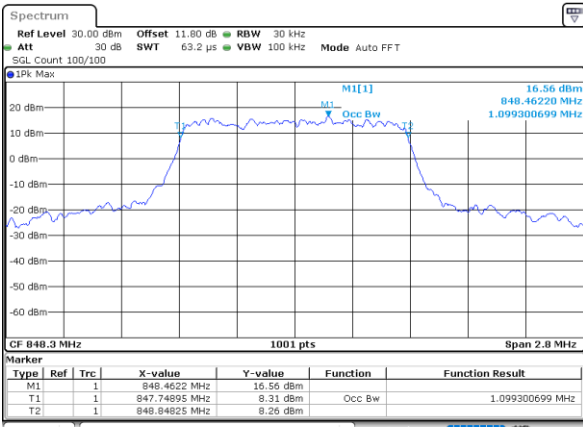
Date: 6, JAN, 2018 01:35:35

Middle Channel / 1.4MHz / 16QAM



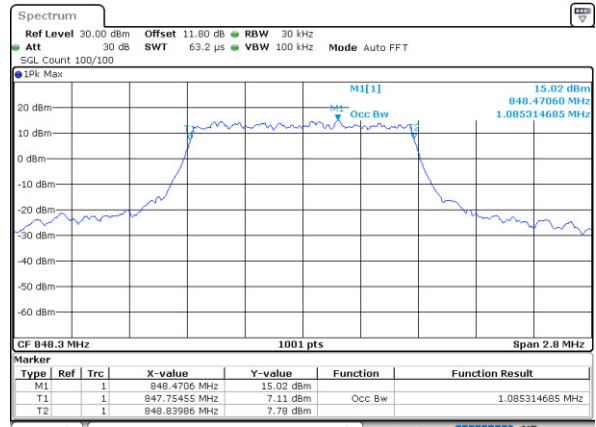
Date: 6, JAN, 2018 01:35:45

Highest Channel / 1.4MHz / QPSK



Date: 6, JAN, 2018 01:38:01

Highest Channel / 1.4MHz / 16QAM

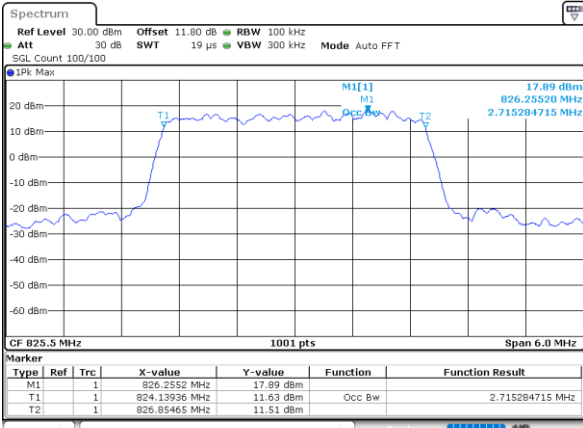


Date: 6, JAN, 2018 01:38:11



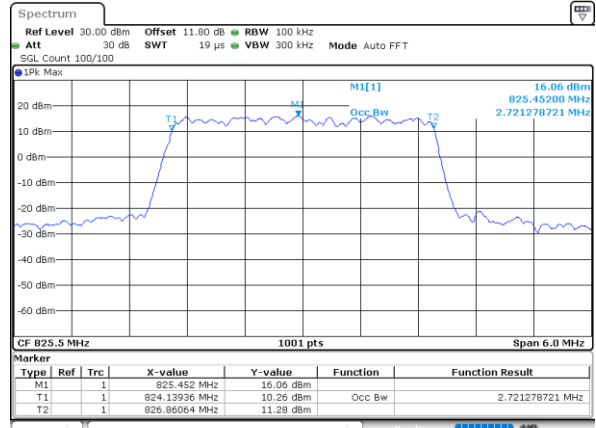
LTE Band 5

Lowest Channel / 3MHz / QPSK



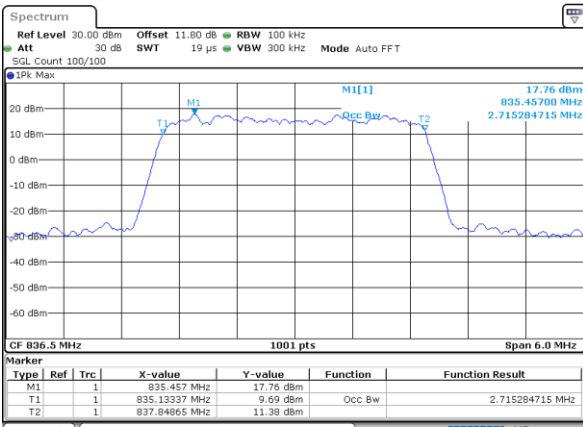
Date: 6,JAN,2018 00:24:39

Lowest Channel / 3MHz / 16QAM



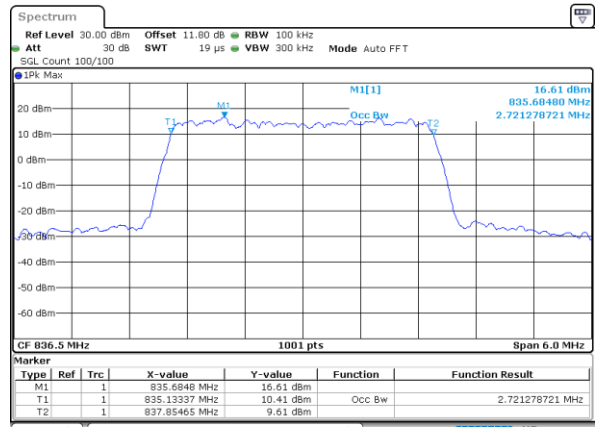
Date: 6,JAN,2018 00:24:49

Middle Channel / 3MHz / QPSK



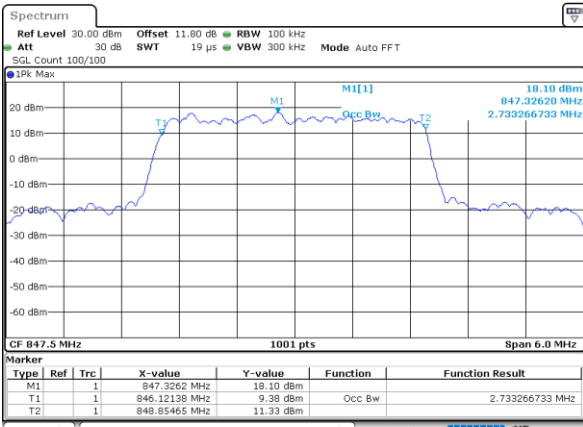
Date: 6,JAN,2018 00:33:37

Middle Channel / 3MHz / 16QAM



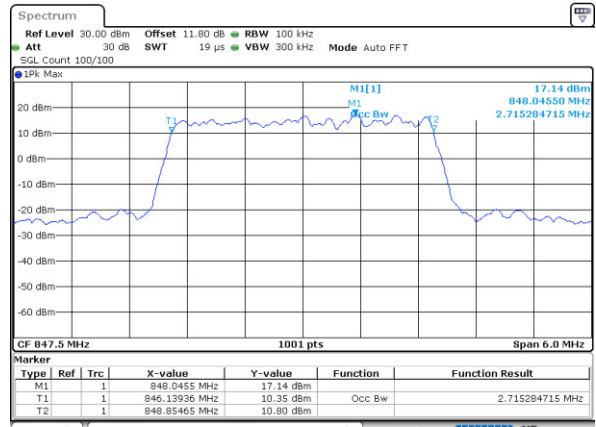
Date: 6,JAN,2018 00:33:47

Highest Channel / 3MHz / QPSK



Date: 6,JAN,2018 00:36:02

Highest Channel / 3MHz / 16QAM

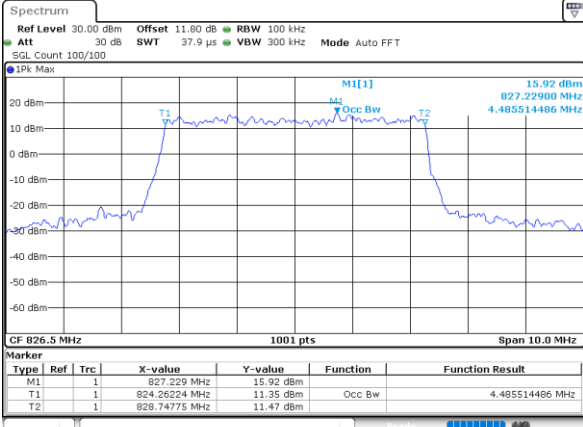


Date: 6,JAN,2018 00:36:12



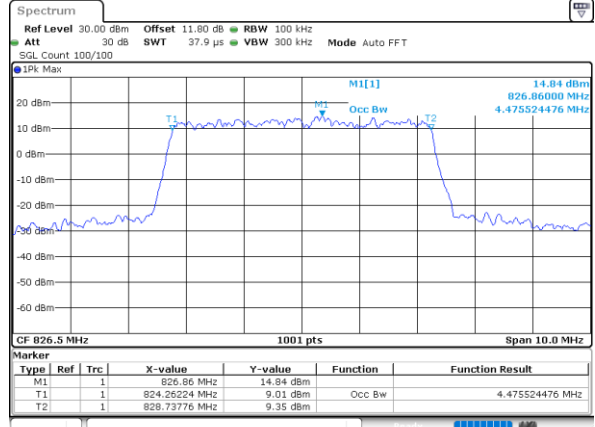
LTE Band 5

Lowest Channel / 5MHz / QPSK



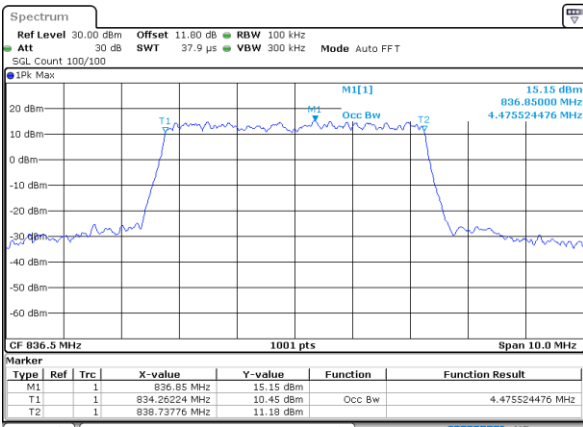
Date: 6, JAN, 2018 00:45:10

Lowest Channel / 5MHz / 16QAM



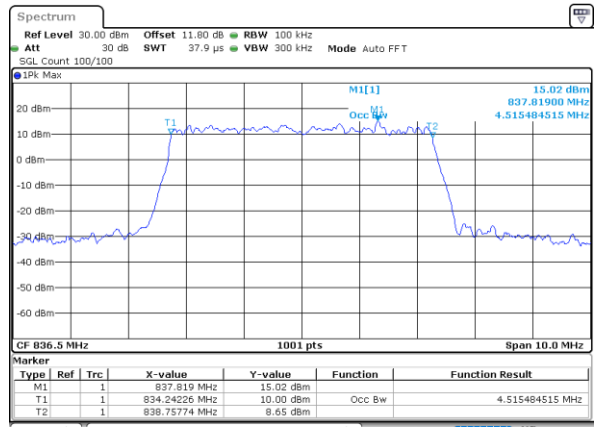
Date: 6, JAN, 2018 00:45:10

Middle Channel / 5MHz / QPSK



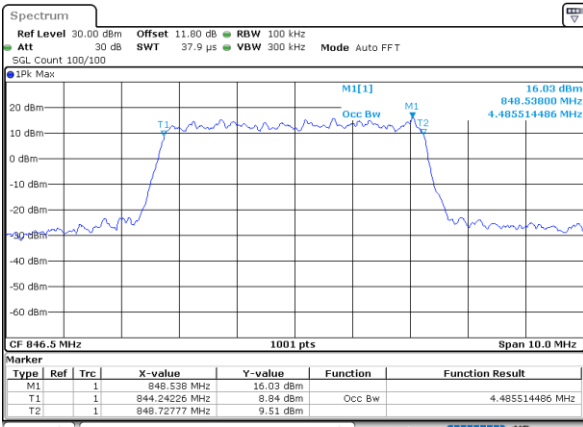
Date: 6, JAN, 2018 00:53:57

Middle Channel / 5MHz / 16QAM



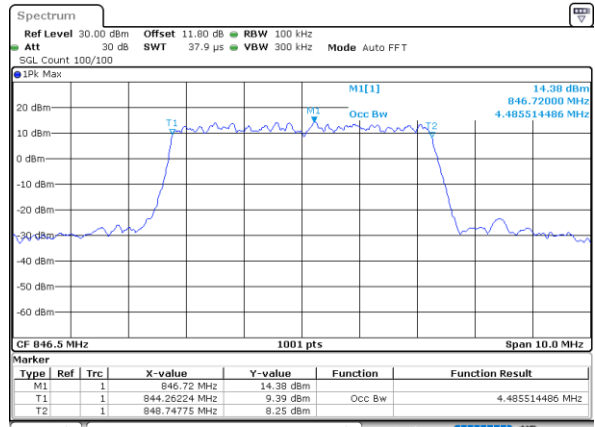
Date: 6, JAN, 2018 00:54:07

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 00:56:23

Highest Channel / 5MHz / 16QAM

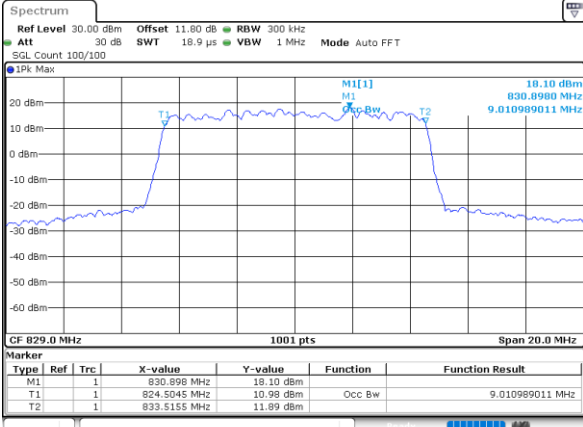


Date: 6, JAN, 2018 00:56:33



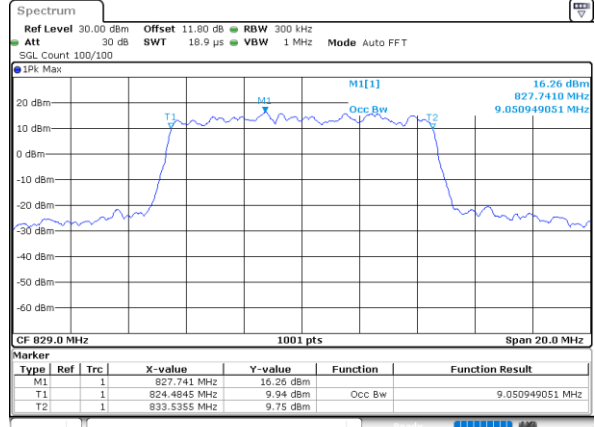
LTE Band 5

Lowest Channel / 10MHz / QPSK



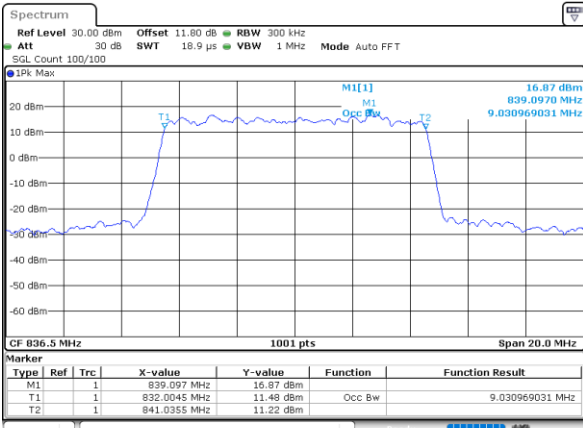
Date: 6, JAN, 2018 01:05:20

Lowest Channel / 10MHz / 16QAM



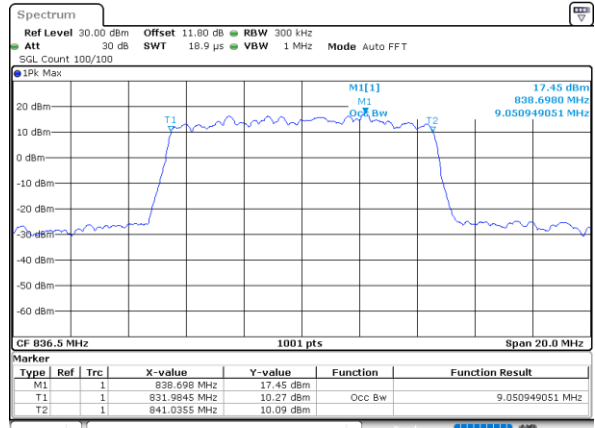
Date: 6, JAN, 2018 01:05:30

Middle Channel / 10MHz / QPSK



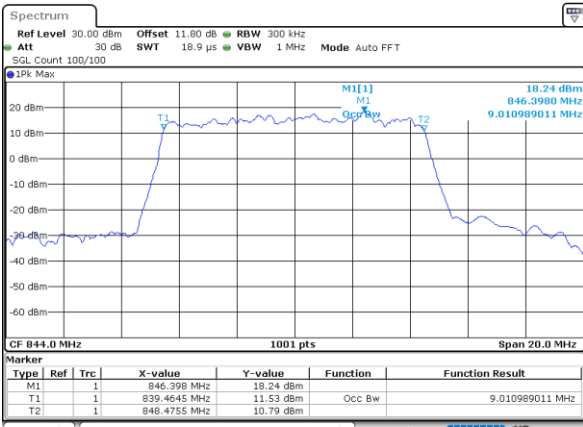
Date: 6, JAN, 2018 01:14:17

Middle Channel / 10MHz / 16QAM



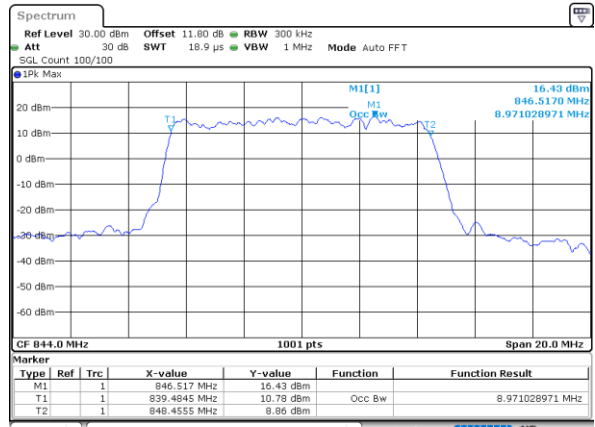
Date: 6, JAN, 2018 01:14:27

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 01:16:43

Highest Channel / 10MHz / 16QAM



Date: 6, JAN, 2018 01:16:53

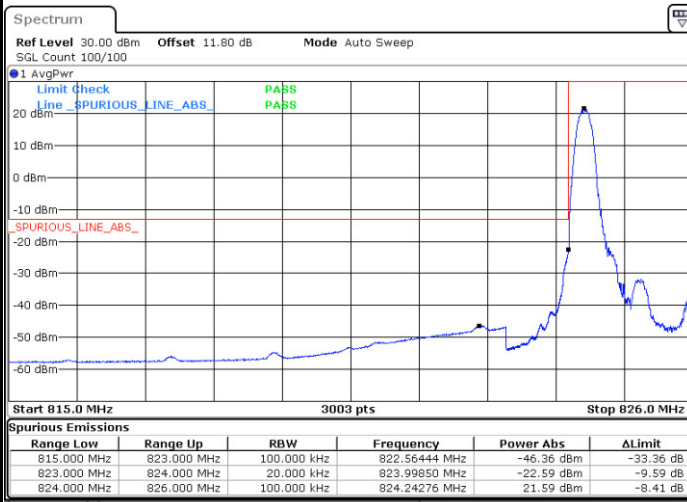


Conducted Band Edge



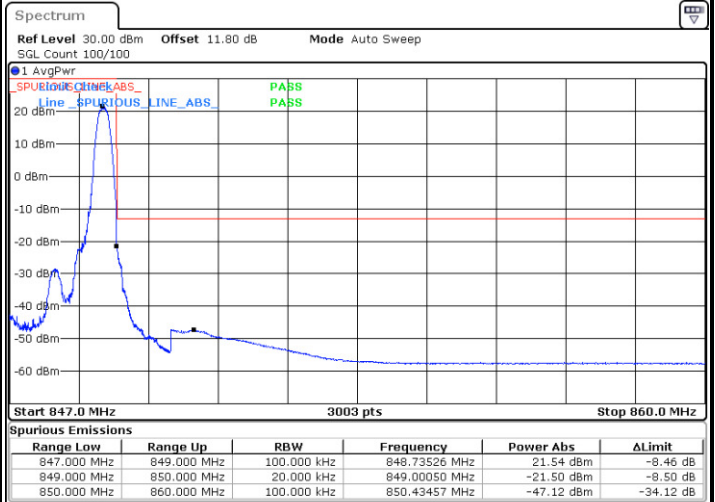
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



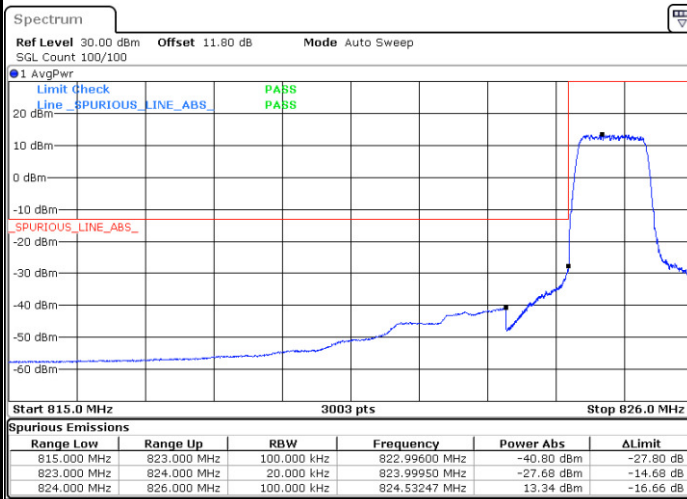
Date: 6.JAN.2018 01:28:45

Highest Band Edge / 1RB



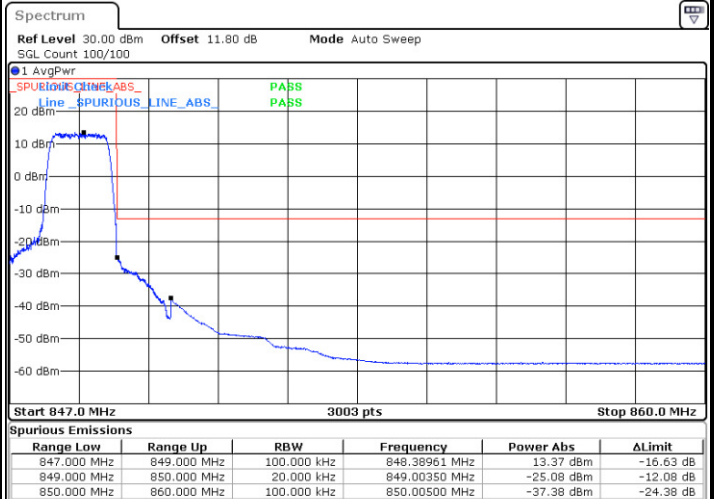
Date: 6.JAN.2018 01:43:24

Lowest Band Edge / Full RB



Date: 6.JAN.2018 01:32:01

Highest Band Edge / Full RB

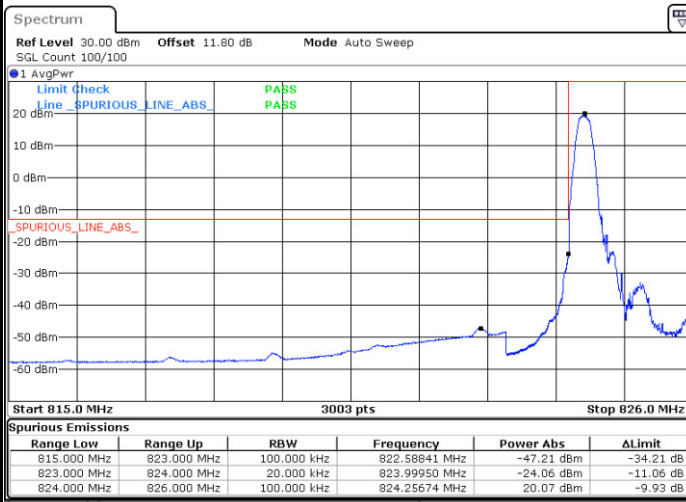


Date: 6.JAN.2018 01:40:09



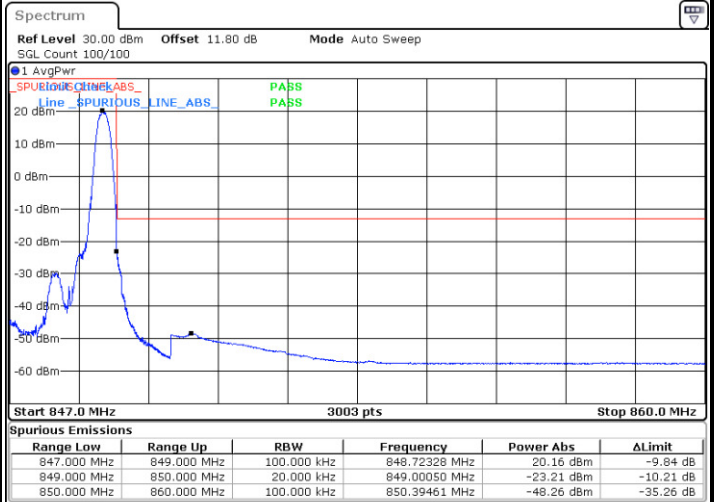
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



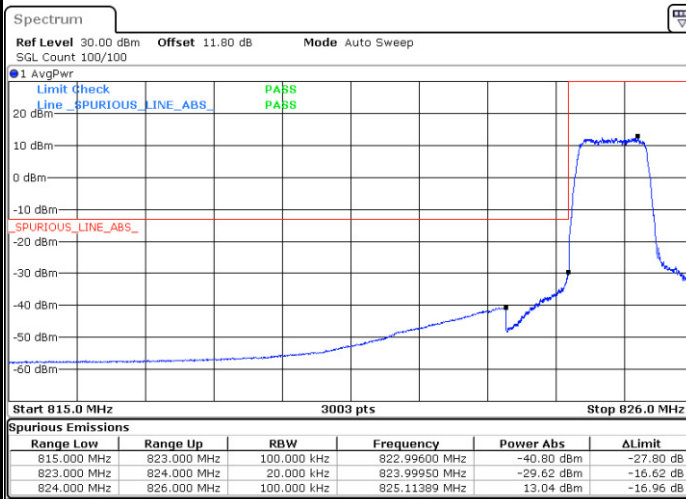
Date: 6.JAN.2018 01:30:23

Highest Band Edge / 1 RB



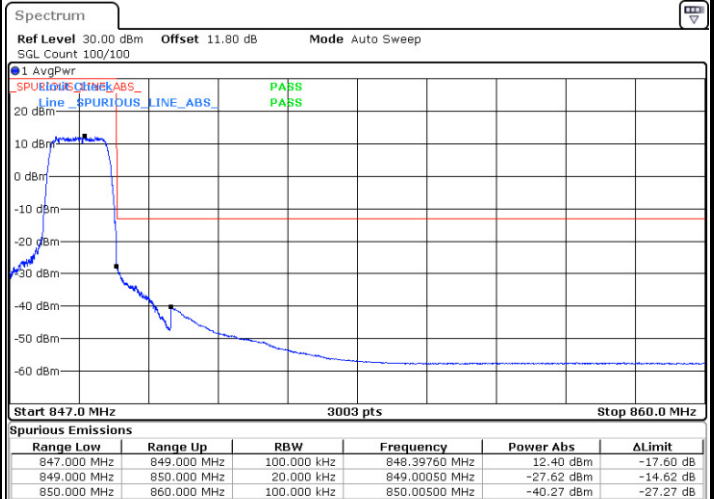
Date: 6.JAN.2018 01:45:02

Lowest Band Edge / Full RB



Date: 6.JAN.2018 01:33:39

Highest Band Edge / Full RB

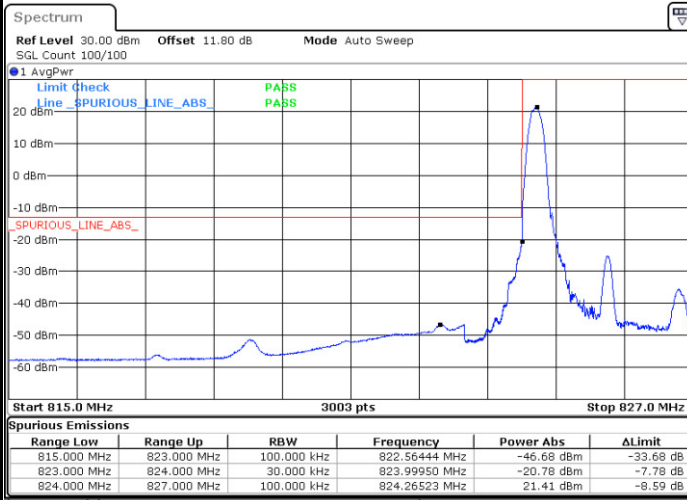


Date: 6.JAN.2018 01:41:47



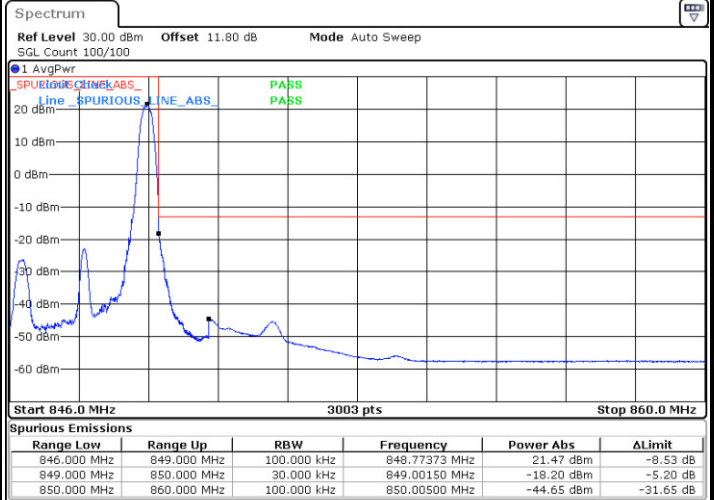
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



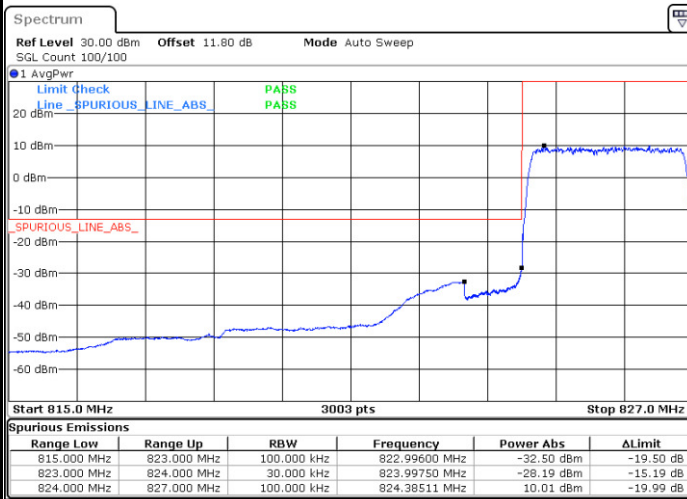
Date: 6.JAN.2018 00:26:47

Highest Band Edge / 1 RB



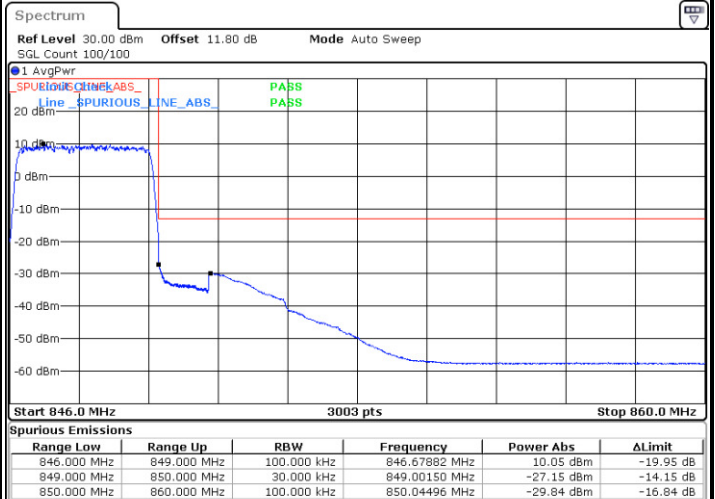
Date: 6.JAN.2018 00:38:10

Lowest Band Edge / Full RB

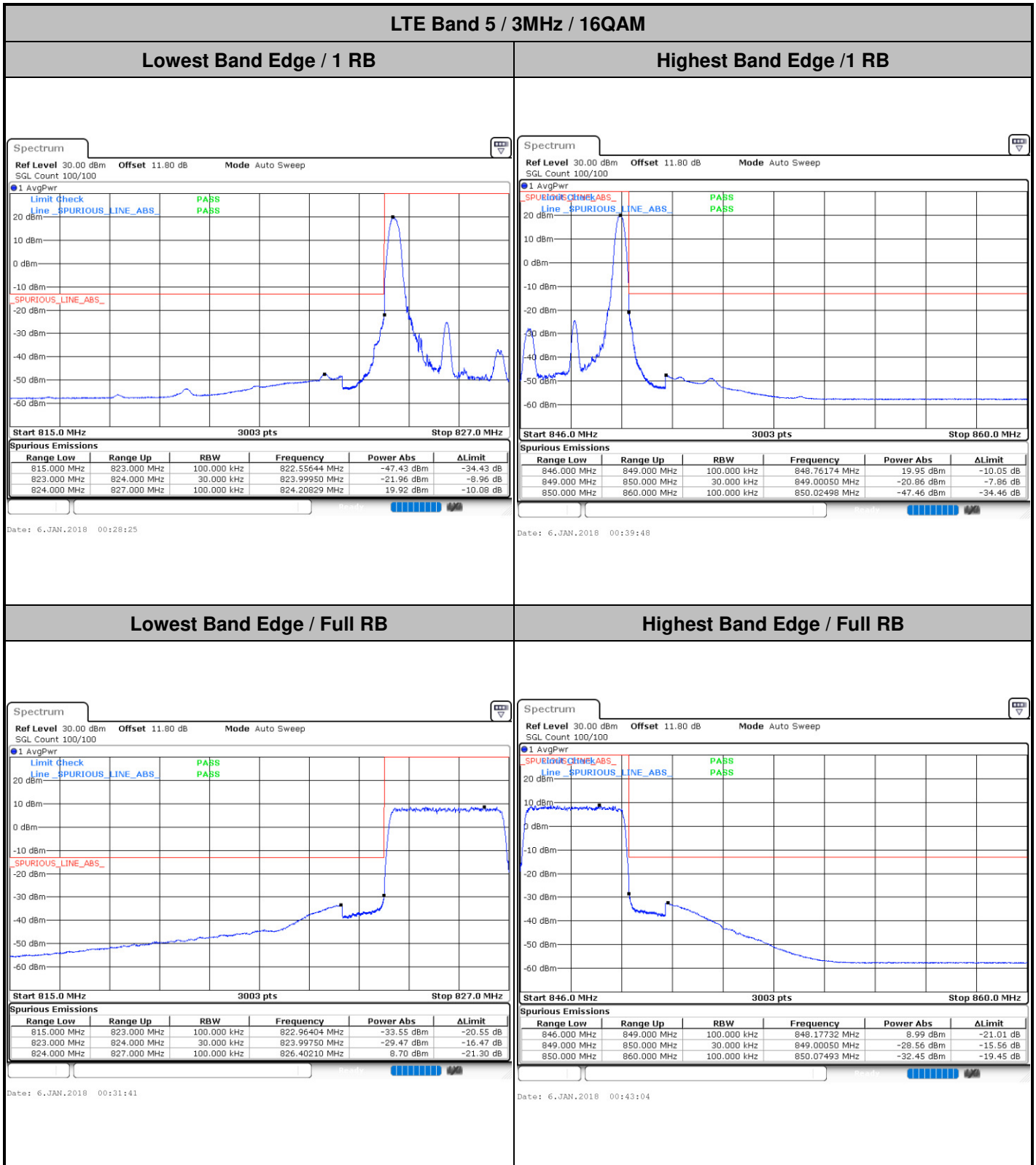


Date: 6.JAN.2018 00:30:03

Highest Band Edge / Full RB



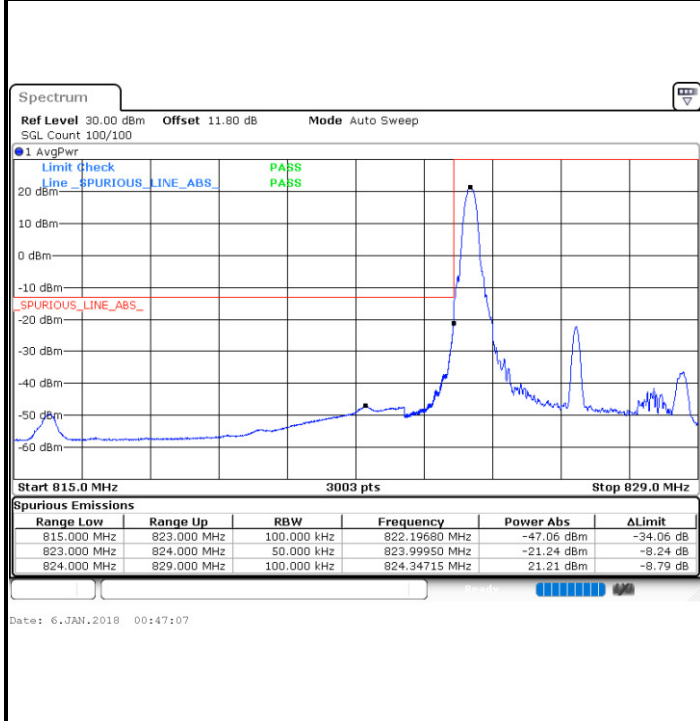
Date: 6.JAN.2018 00:41:26



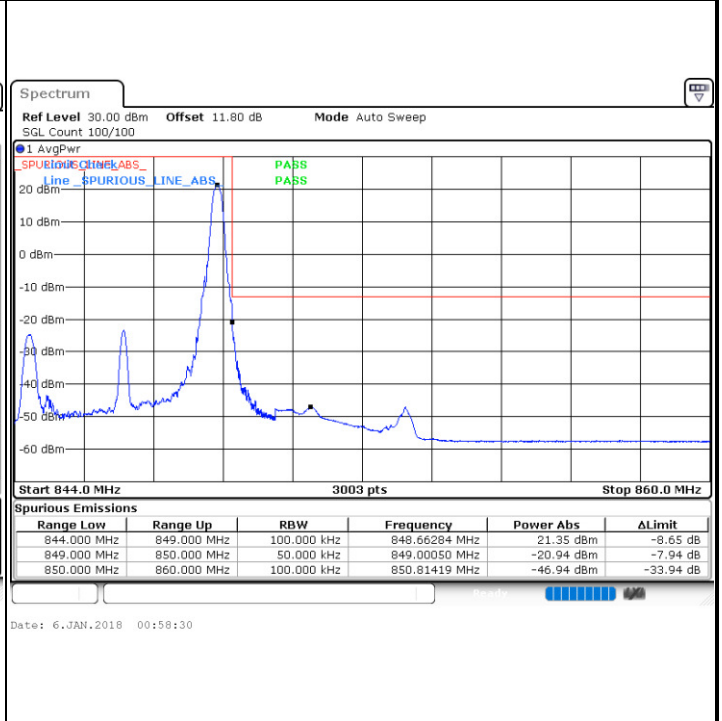


LTE Band 5 / 5MHz / QPSK

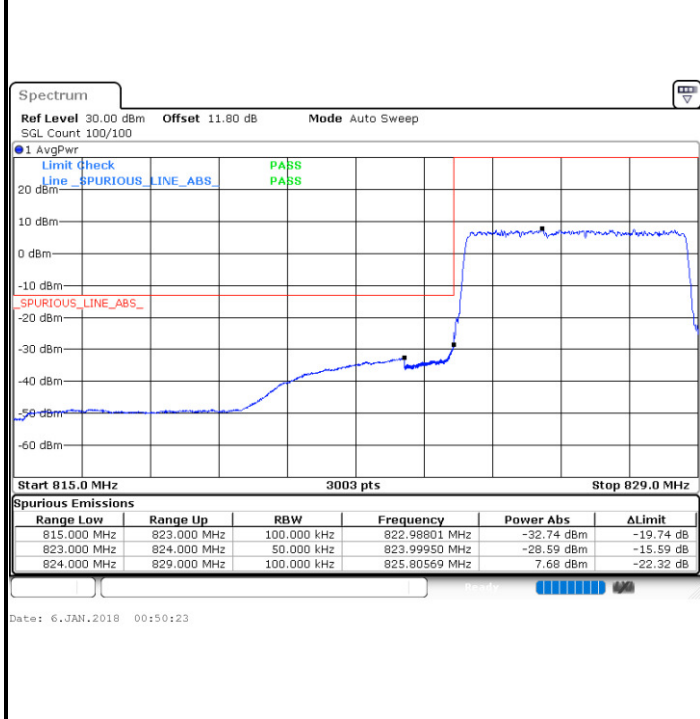
Lowest Band Edge / 1 RB



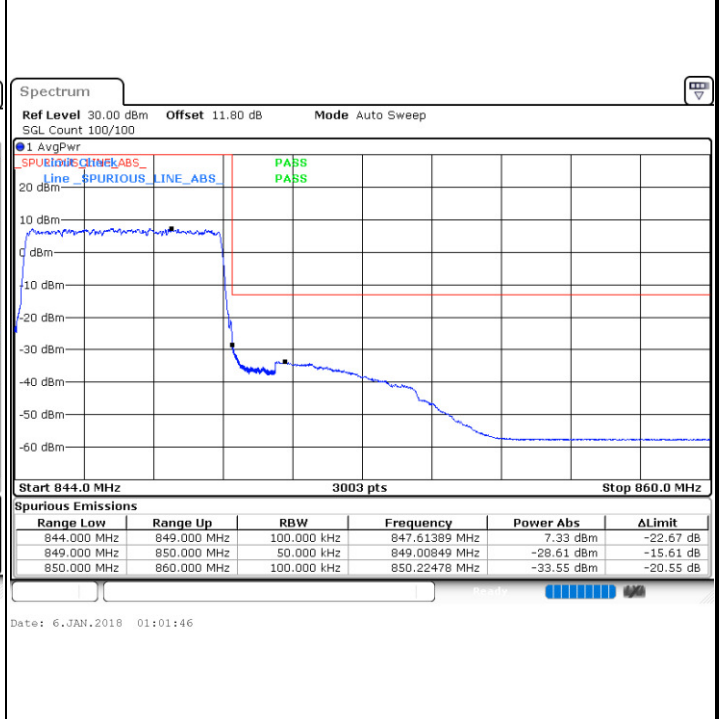
Highest Band Edge / 1 RB

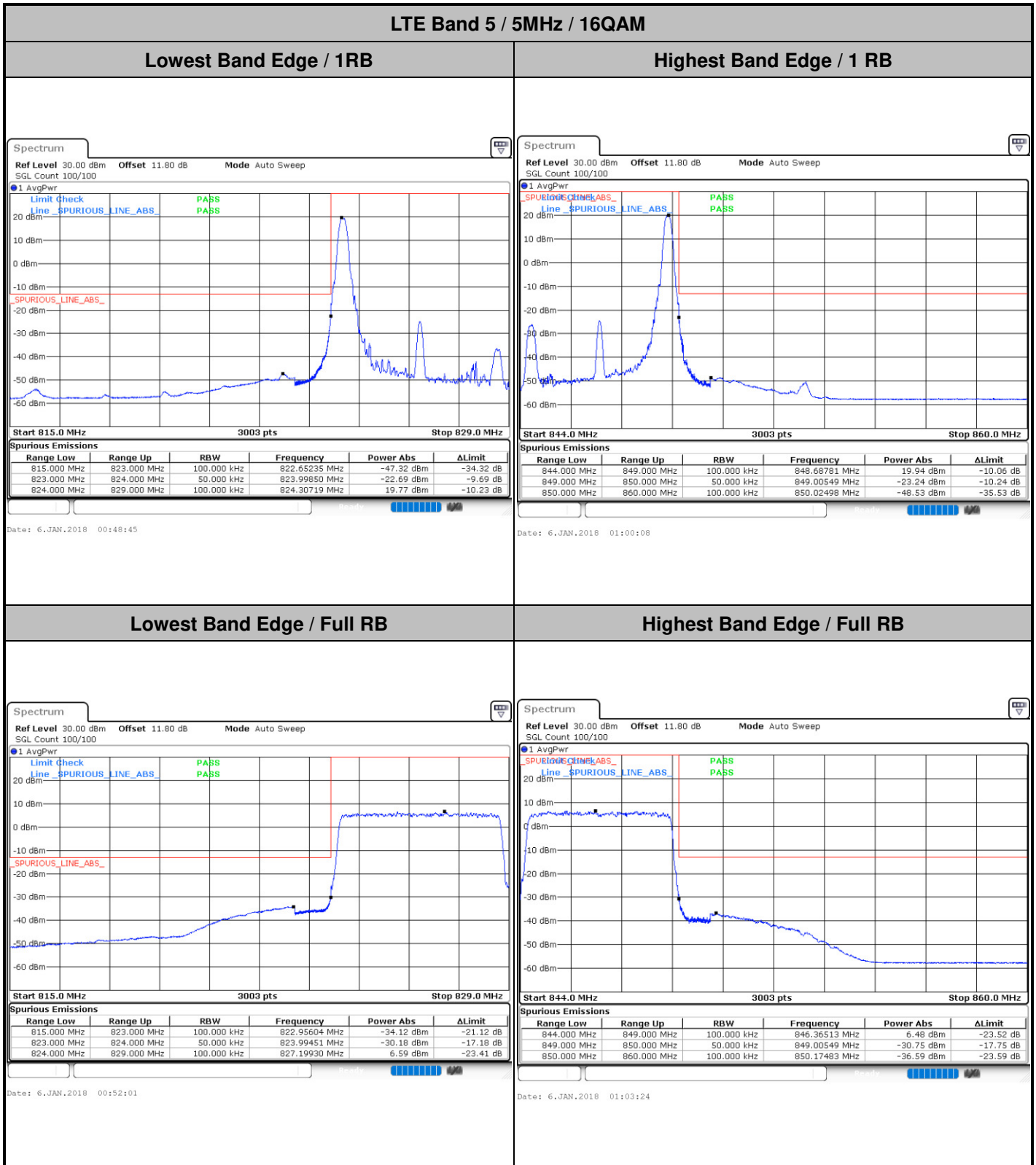


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

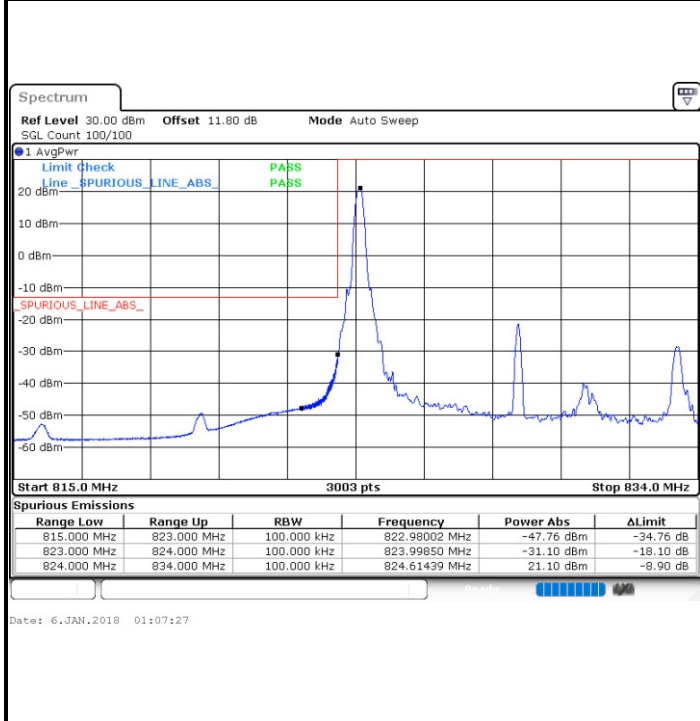




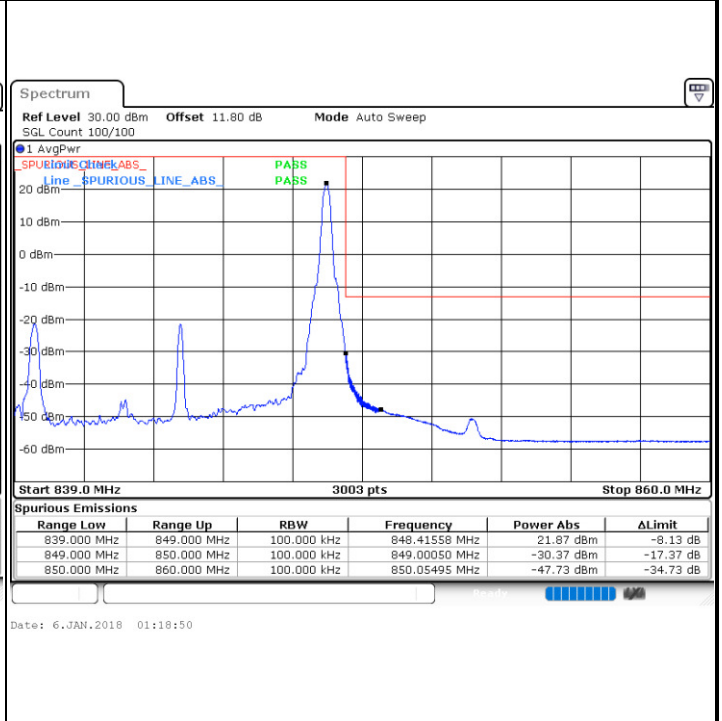


LTE Band 5 / 10MHz / QPSK

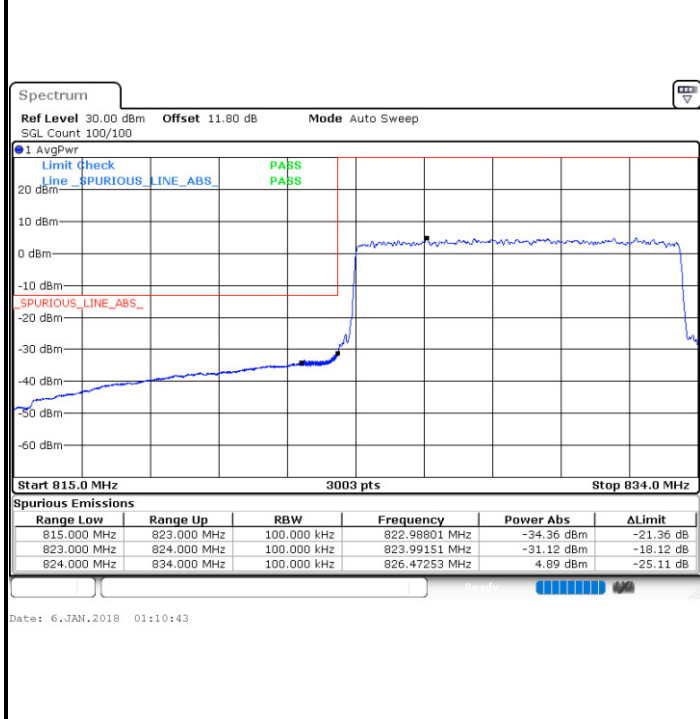
Lowest Band Edge / 1 RB



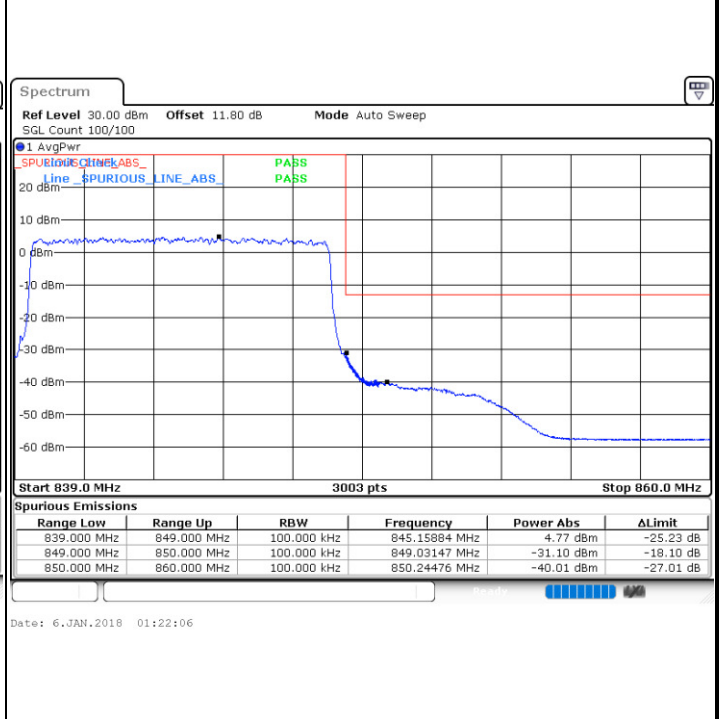
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



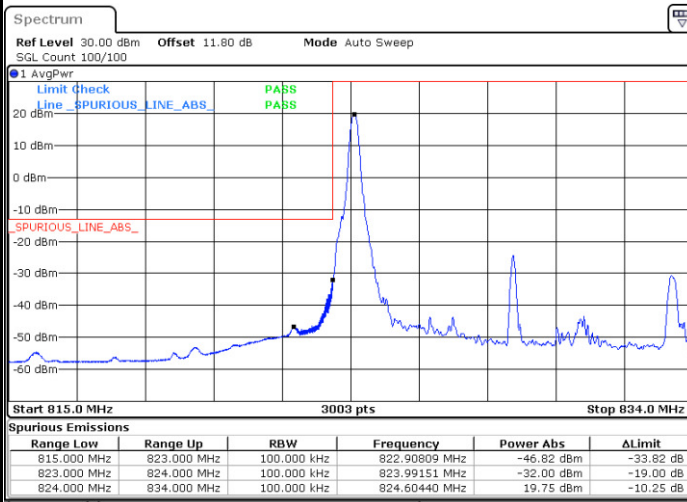
Highest Band Edge / Full RB





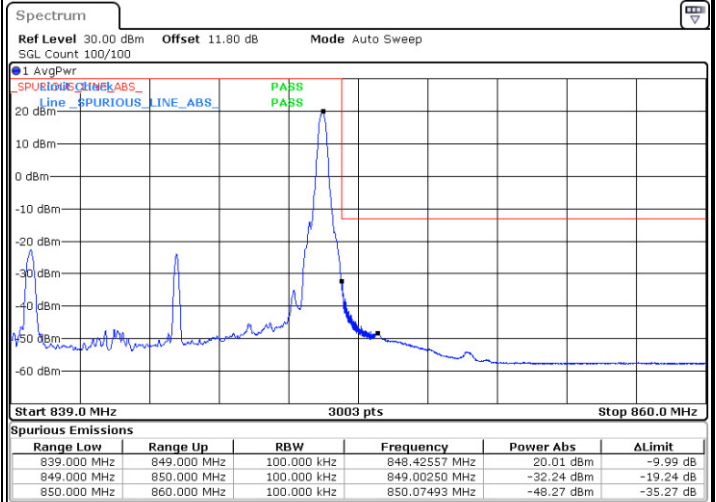
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



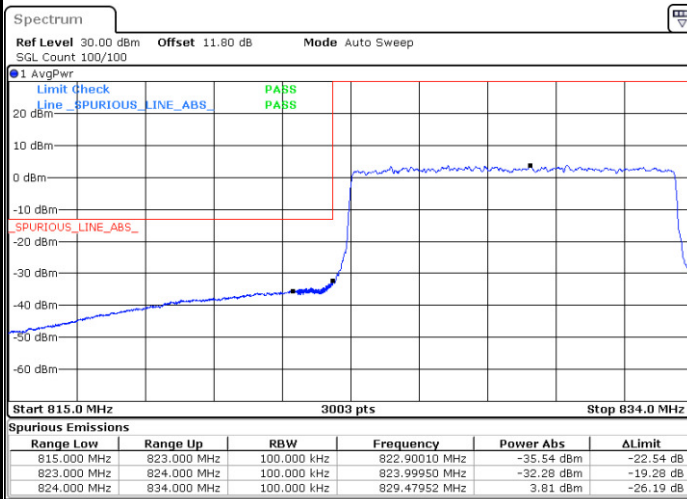
Date: 6.JAN.2018 01:09:05

Highest Band Edge / 1 RB



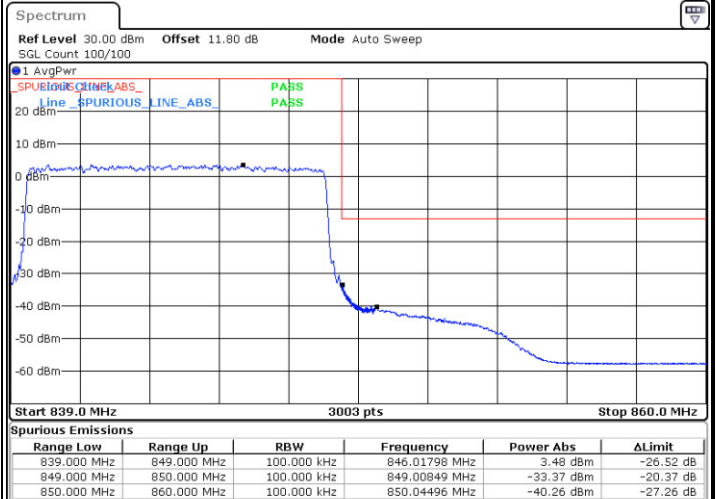
Date: 6.JAN.2018 01:20:28

Lowest Band Edge / Full RB



Date: 6.JAN.2018 01:12:21

Highest Band Edge / Full RB



Date: 6.JAN.2018 01:23:44



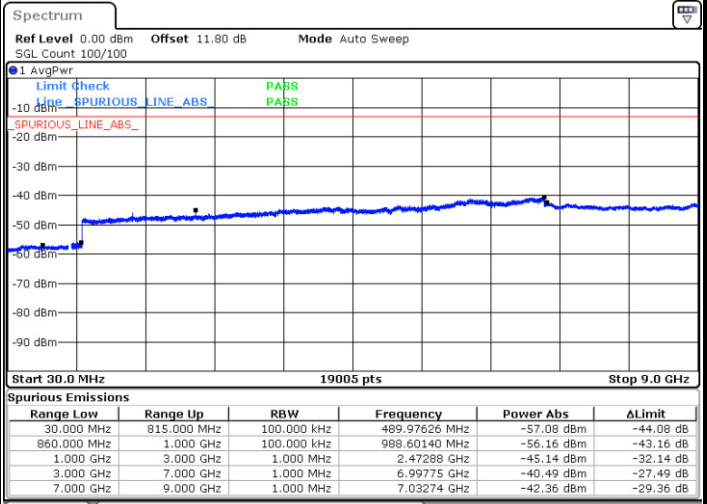
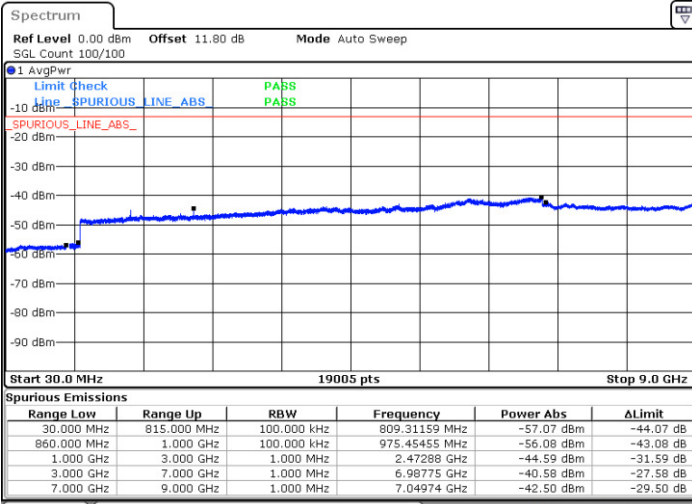
Conducted Spurious Emission



LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

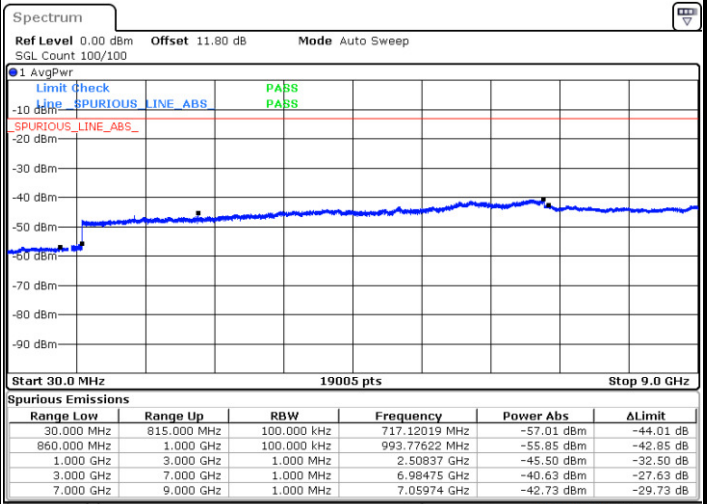
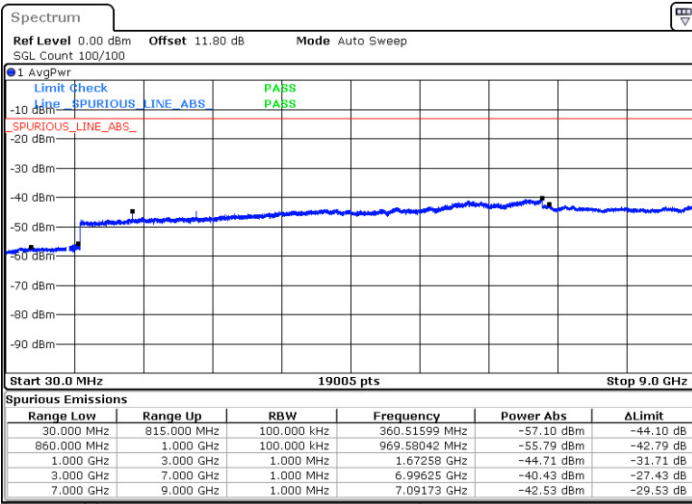


Date: 6. JAN. 2018 01:34:33

Date: 6. JAN. 2018 01:35:26

Middle Channel / QPSK

Middle Channel / 16QAM



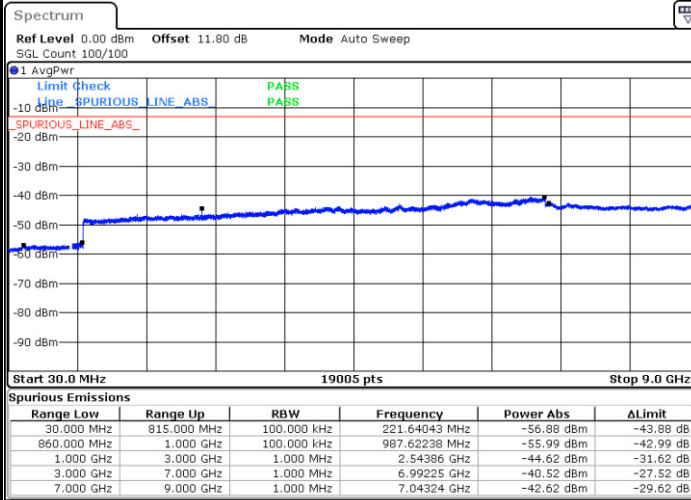
Date: 6. JAN. 2018 01:36:59

Date: 6. JAN. 2018 01:37:52



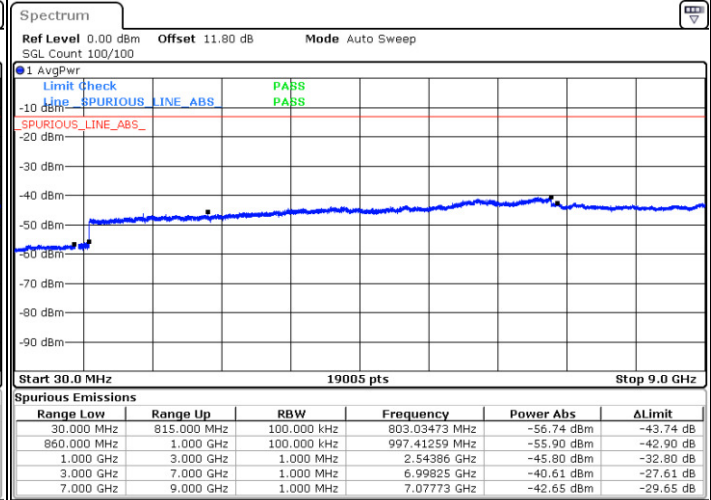
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 6.JAN.2018 01:45:56

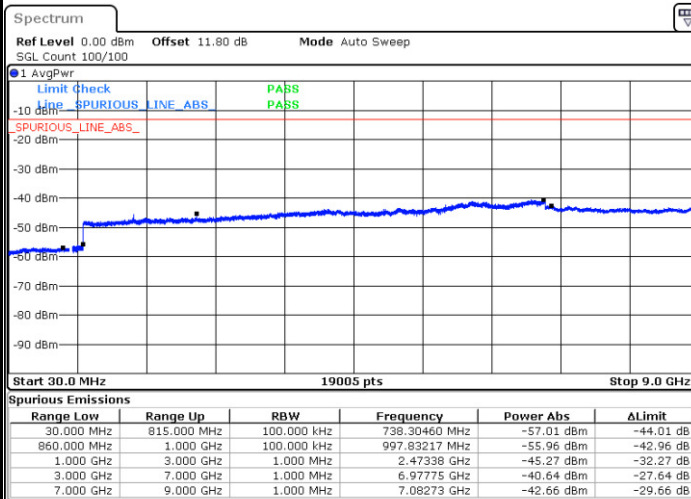
Highest Channel / 16QAM



Date: 6.JAN.2018 01:46:49

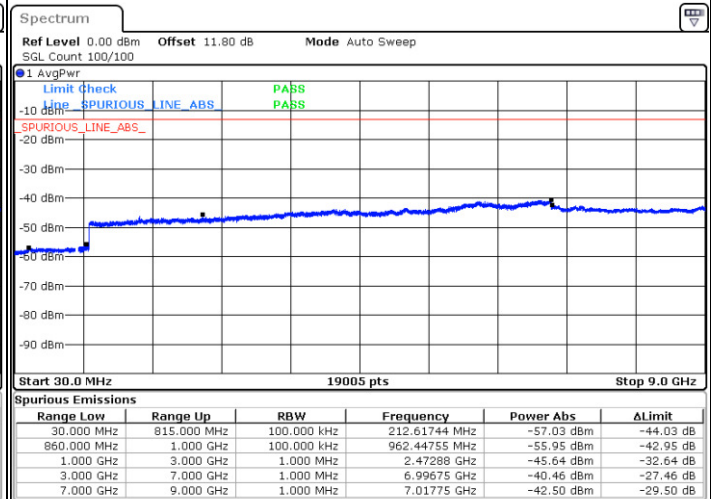
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 6.JAN.2018 00:32:34

Lowest Channel / 16QAM



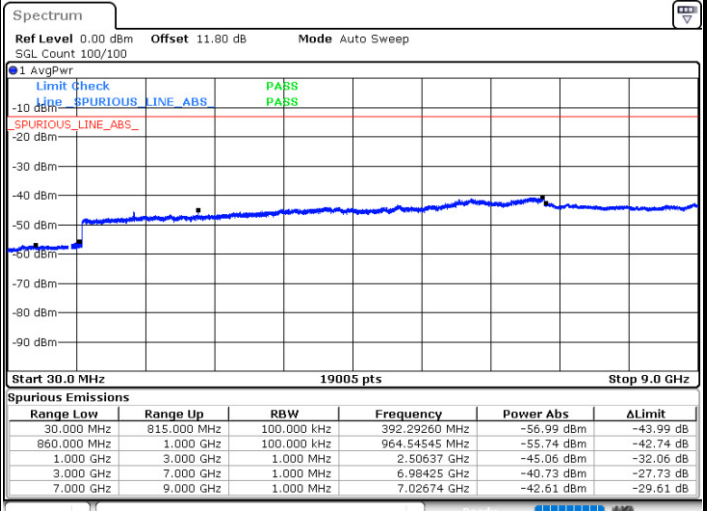
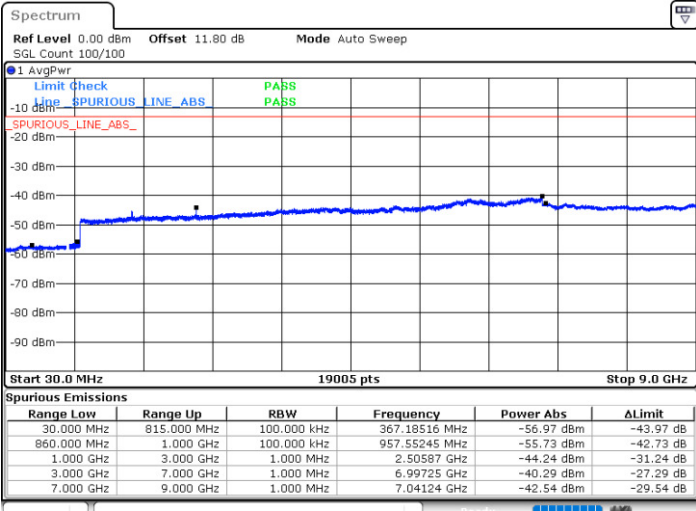
Date: 6.JAN.2018 00:33:27



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

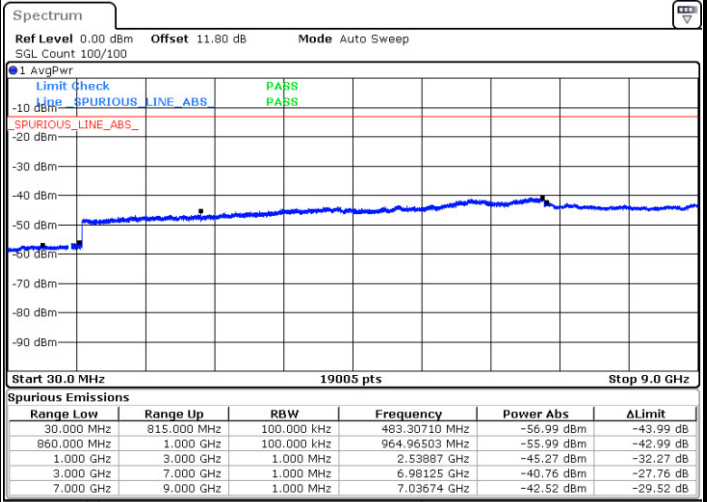
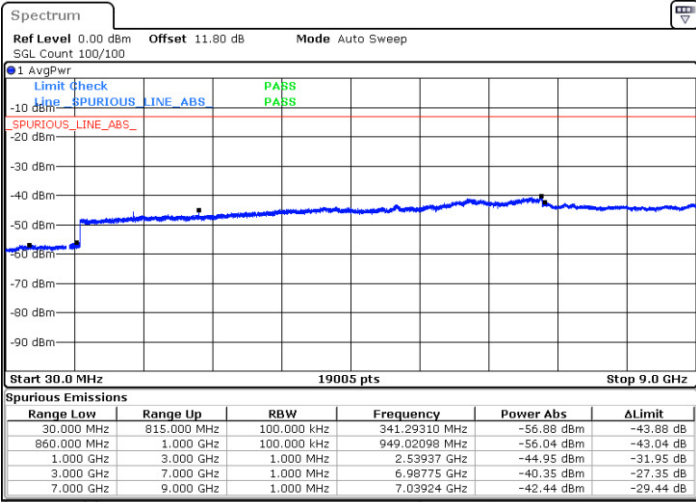


Date: 6. JAN. 2018 00:35:00

Date: 6. JAN. 2018 00:35:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6. JAN. 2018 00:43:57

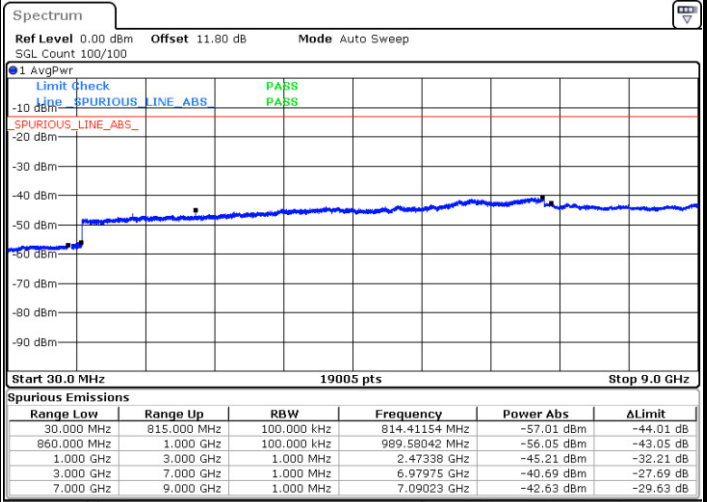
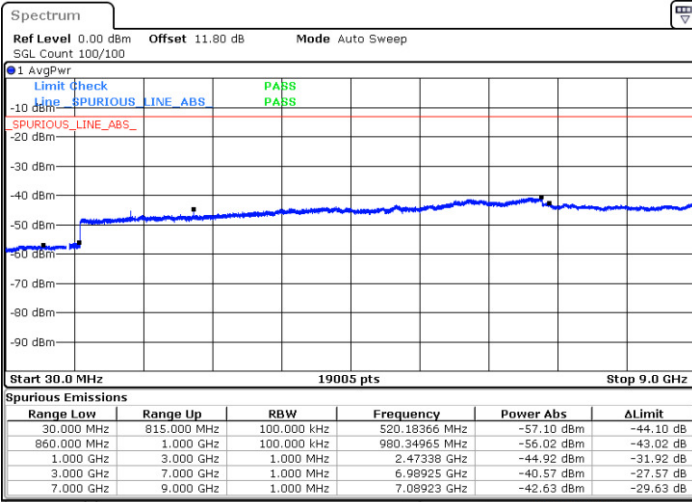
Date: 6. JAN. 2018 00:44:50



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

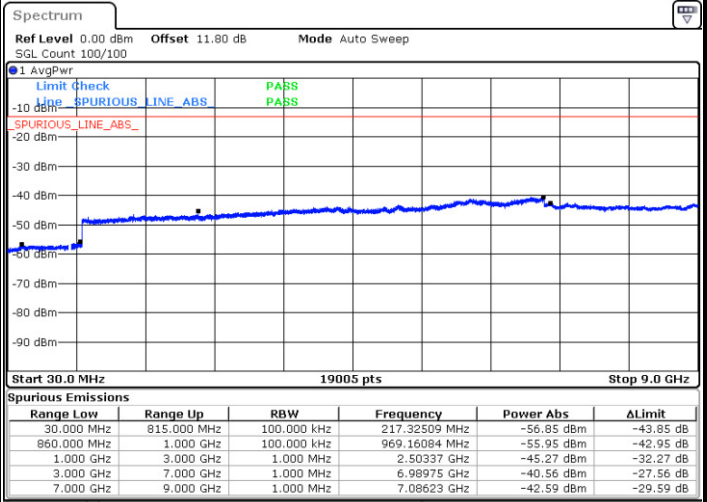
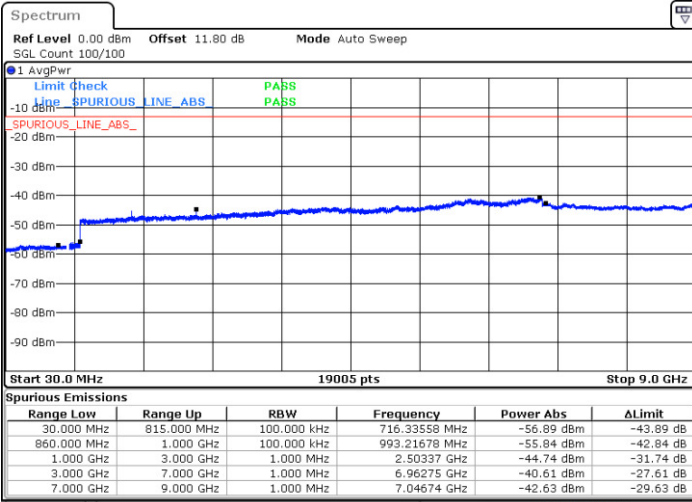


Date: 6. JAN. 2018 00:52:55

Date: 6. JAN. 2018 00:53:48

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 6. JAN. 2018 00:55:20

Date: 6. JAN. 2018 00:56:13