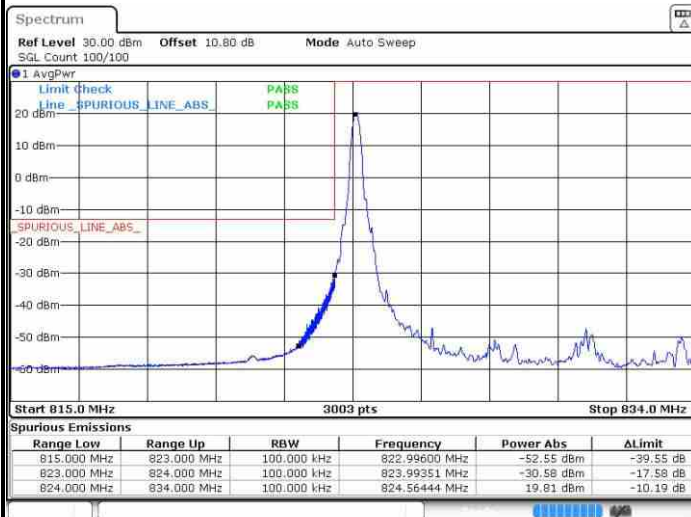


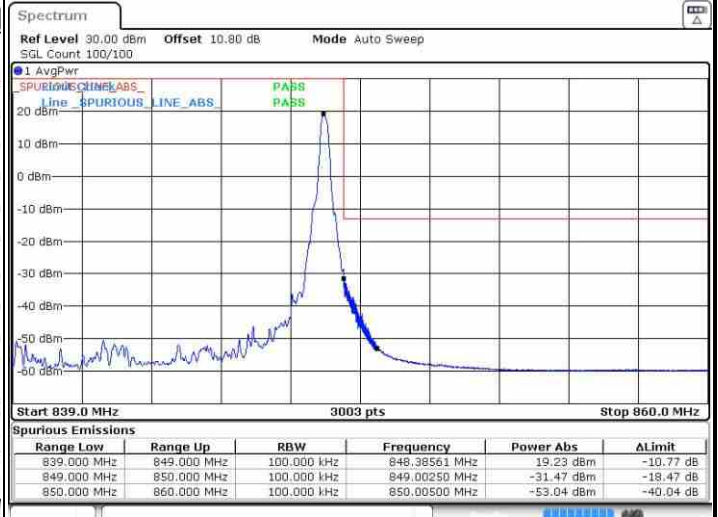


LTE Band 5 / 10MHz / 16QAM

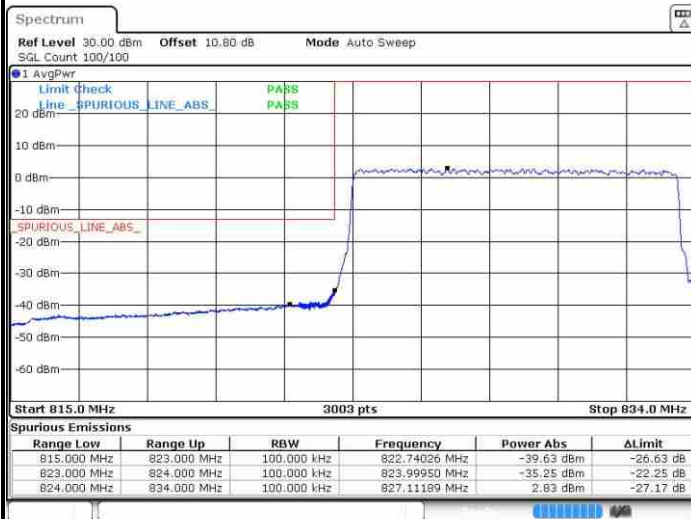
Lowest Band Edge / 1 RB



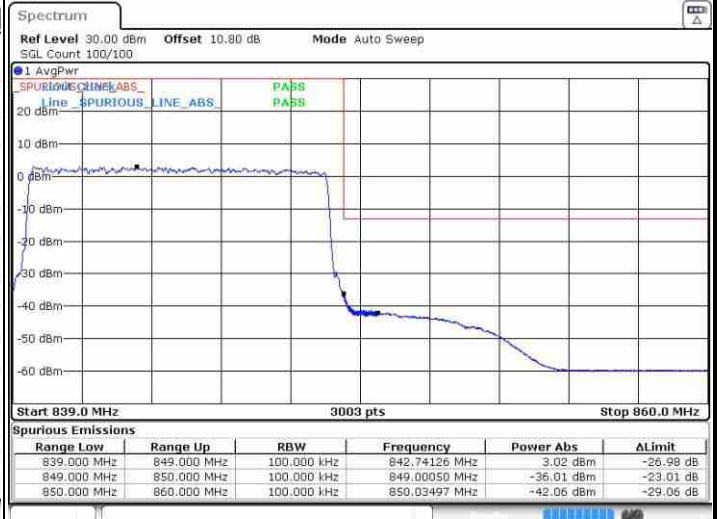
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



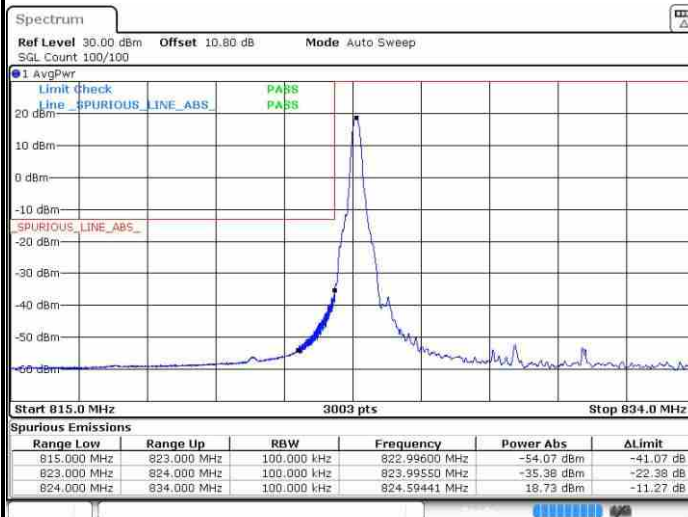
Highest Band Edge / Full RB



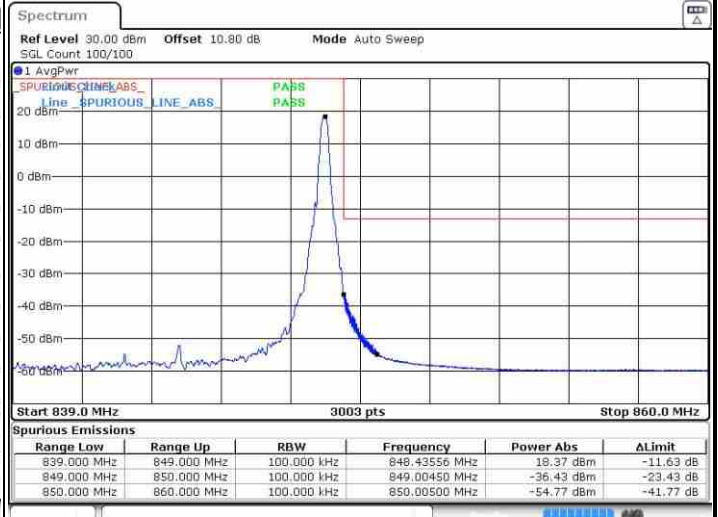


LTE Band 5 / 10MHz / 64QAM

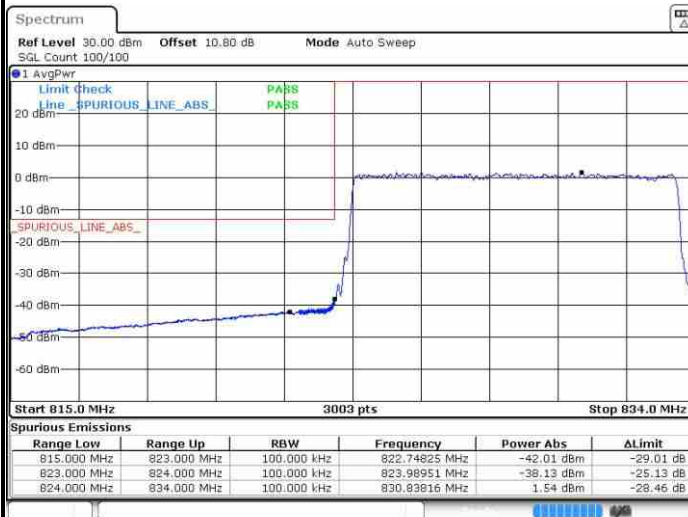
Lowest Band Edge / 1 RB



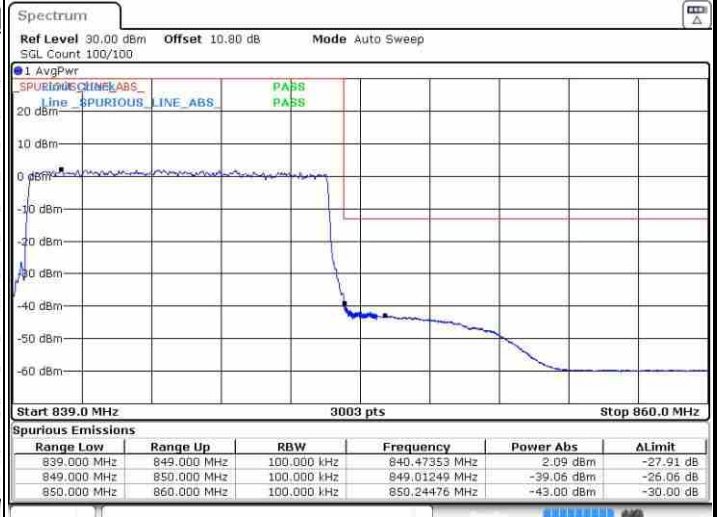
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



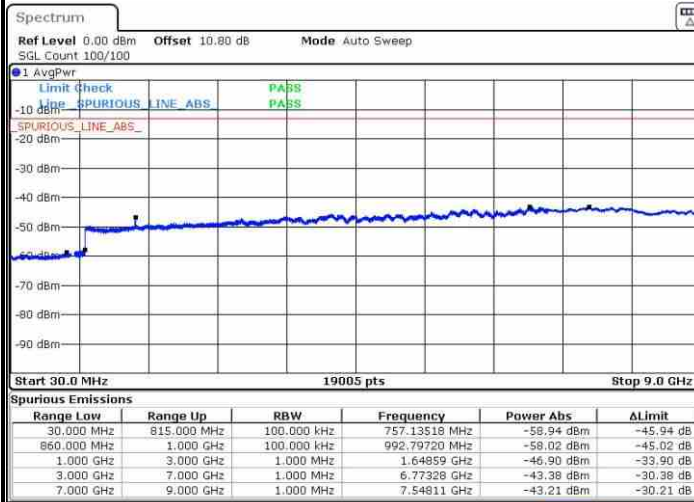


Conducted Spurious Emission



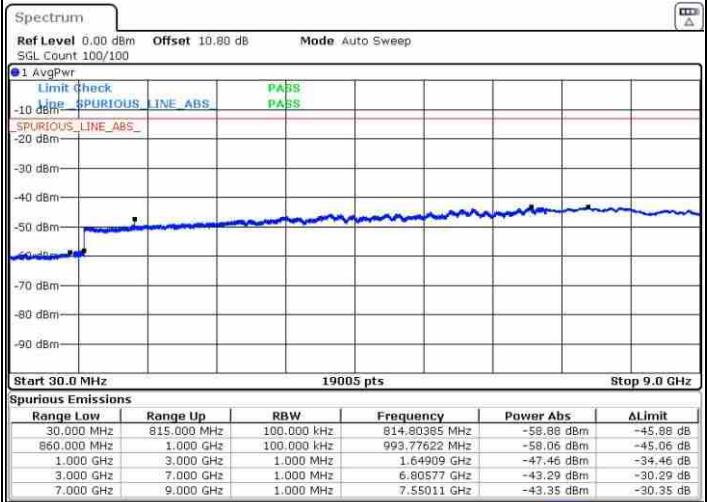
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



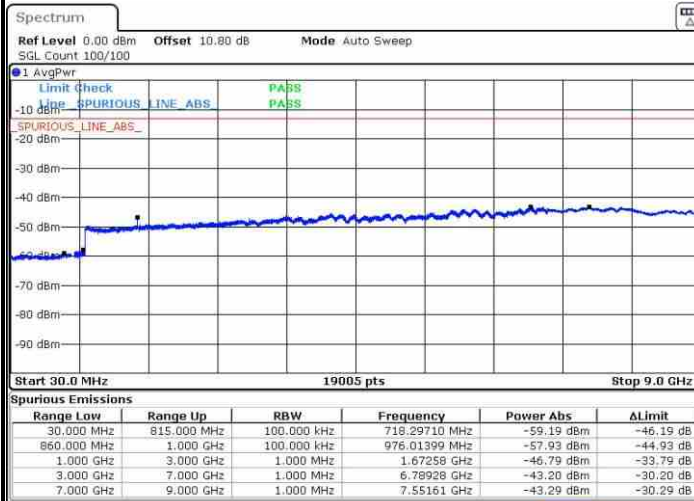
Date: 21 MAY 2019 21:12:14

Lowest Channel / 16QAM



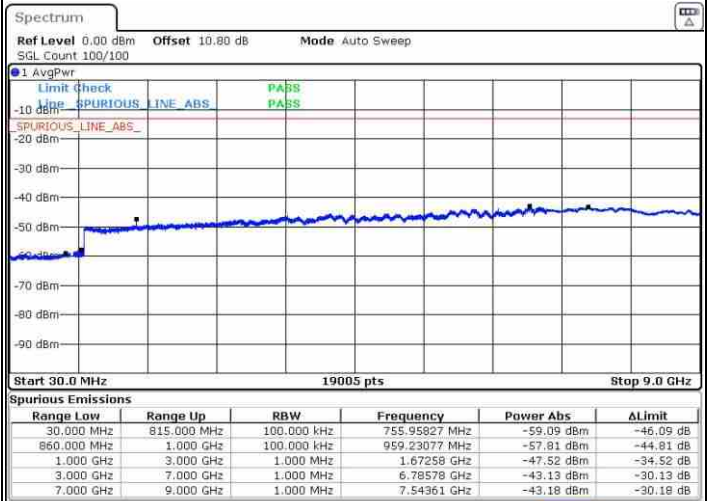
Date: 21 MAY 2019 21:13:01

Middle Channel / QPSK



Date: 21 MAY 2019 21:14:34

Middle Channel / 16QAM

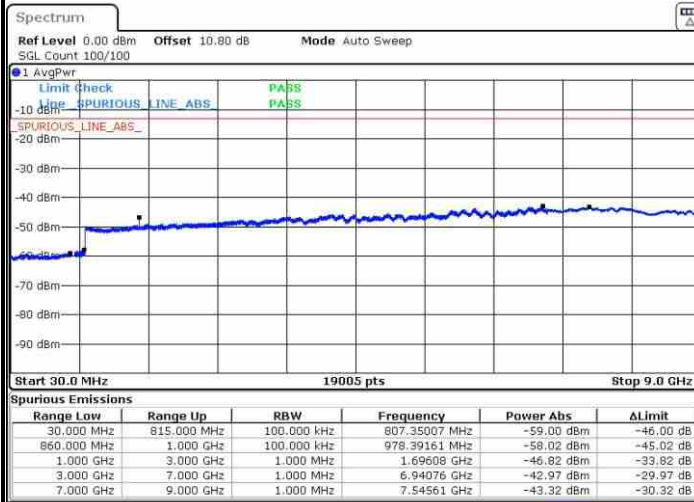


Date: 21 MAY 2019 21:15:19



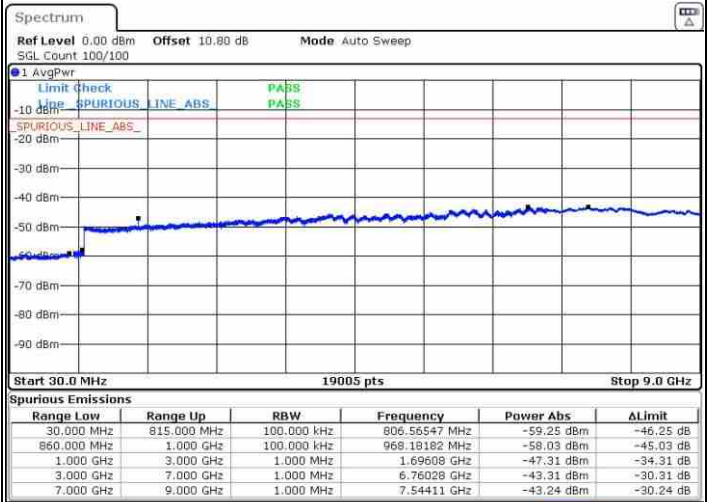
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 21 MAY 2019 21:23:39

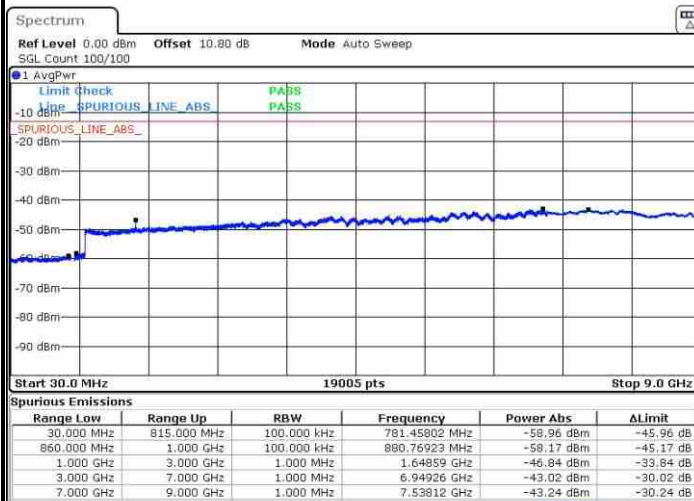
Highest Channel / 16QAM



Date: 21 MAY 2019 21:24:25

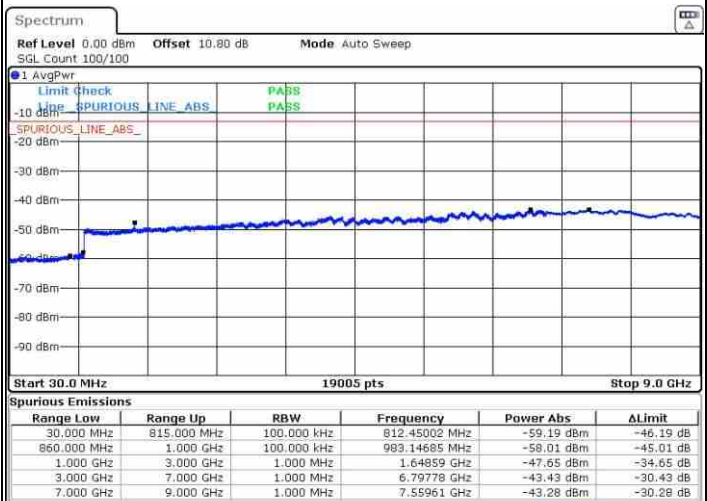
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 21 MAY 2019 19:23:25

Lowest Channel / 16QAM

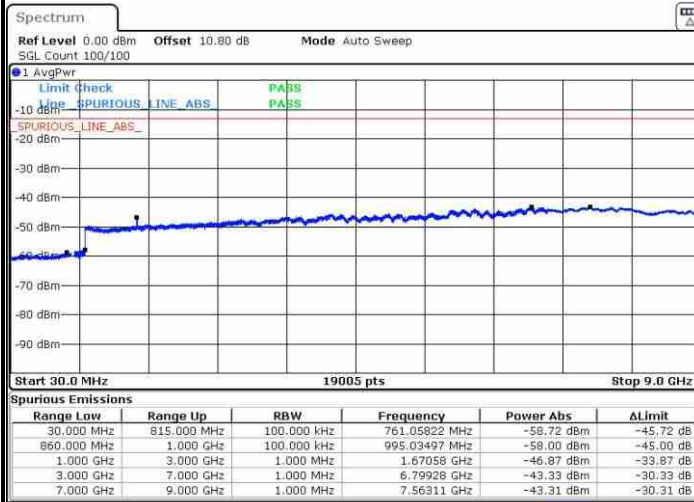


Date: 21 MAY 2019 19:24:12



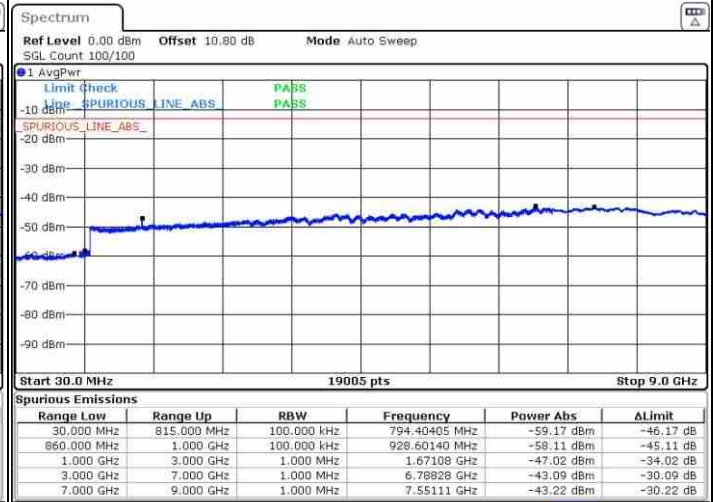
LTE Band 5 / 3MHz

Middle Channel / QPSK



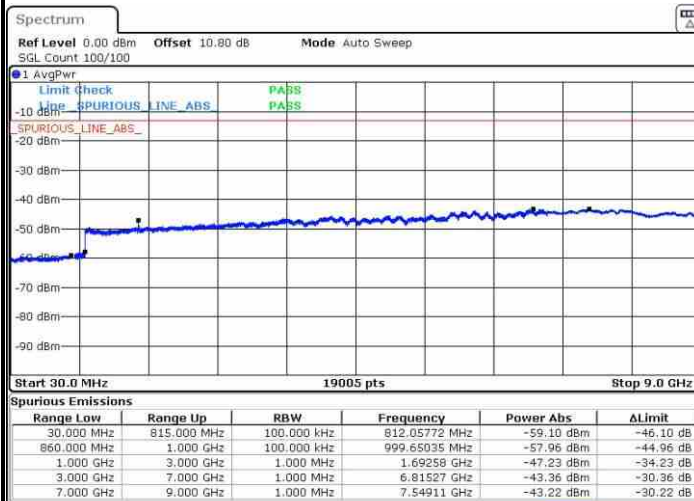
Date: 21 MAY 2019 19:25:45

Middle Channel / 16QAM



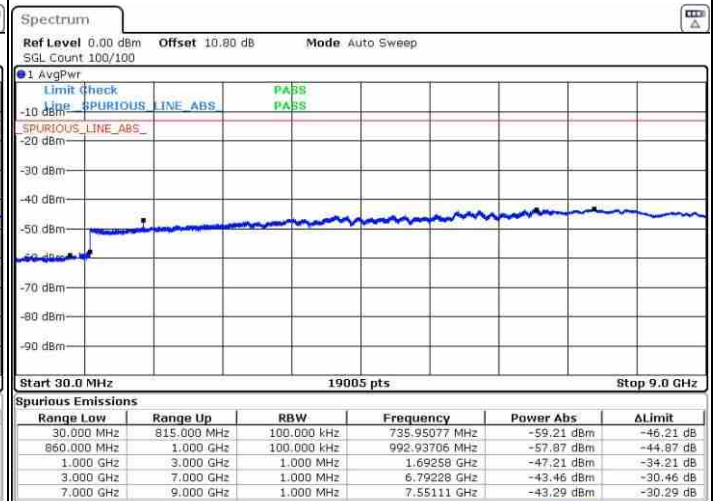
Date: 21 MAY 2019 19:26:31

Highest Channel / QPSK



Date: 21 MAY 2019 19:34:51

Highest Channel / 16QAM

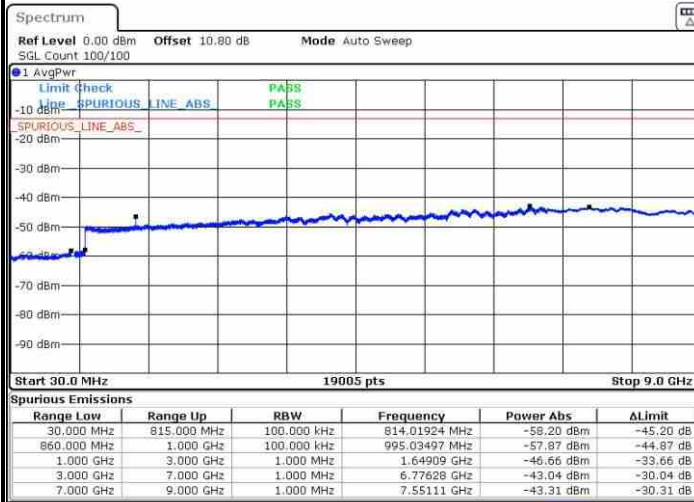


Date: 21 MAY 2019 19:35:37



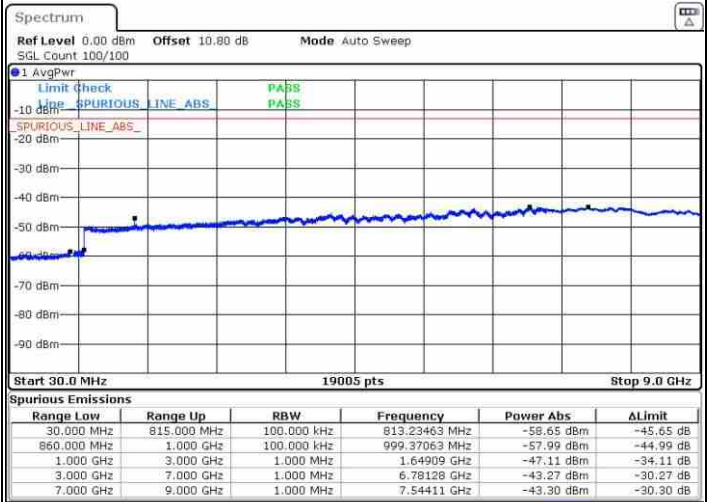
LTE Band 5 / 5MHz

Lowest Channel / QPSK



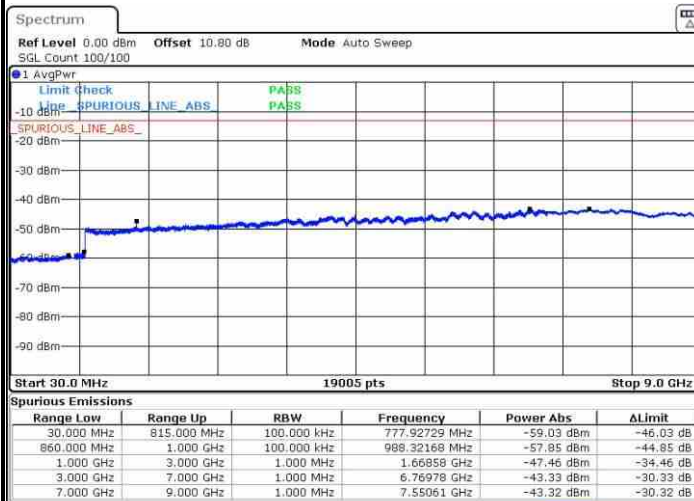
Date: 21 MAY 2019 19:43:58

Lowest Channel / 16QAM



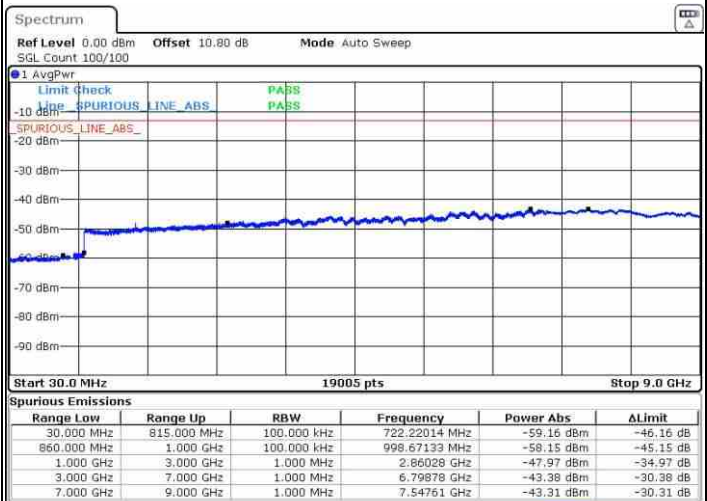
Date: 21 MAY 2019 19:44:44

Middle Channel / QPSK



Date: 21 MAY 2019 19:46:17

Middle Channel / 16QAM

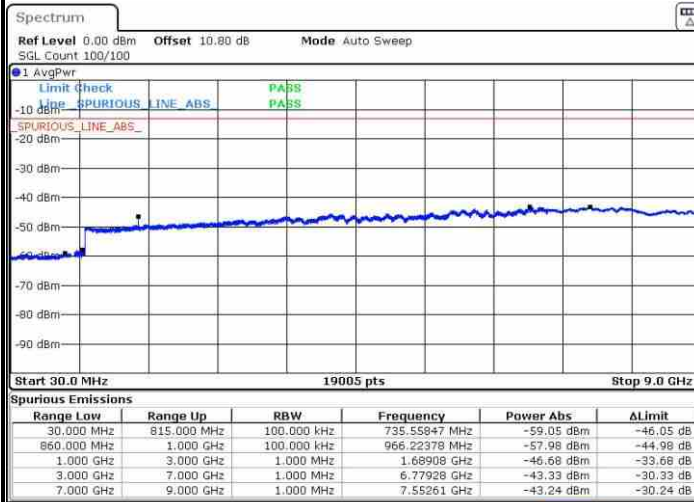


Date: 21 MAY 2019 19:47:03



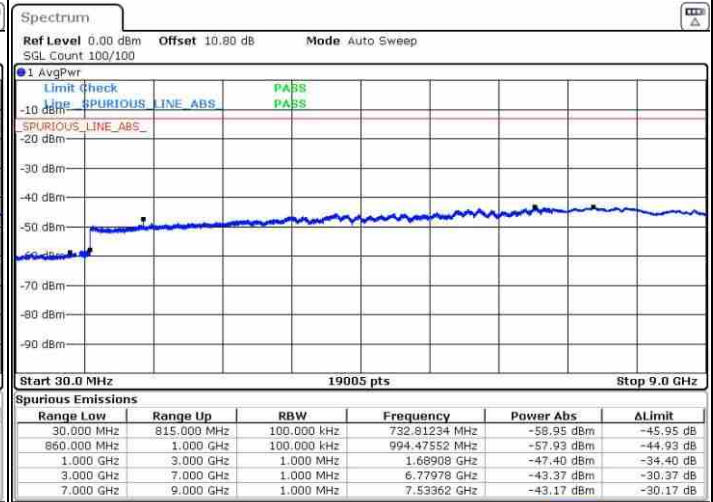
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 21 MAY 2019 19:55:23

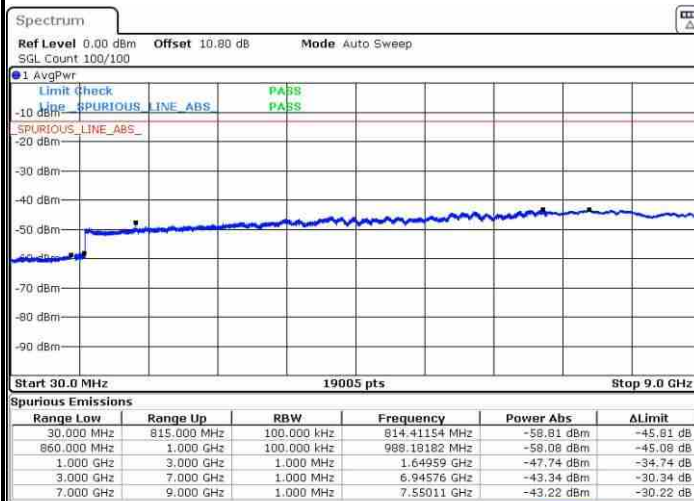
Highest Channel / 16QAM



Date: 21 MAY 2019 19:56:09

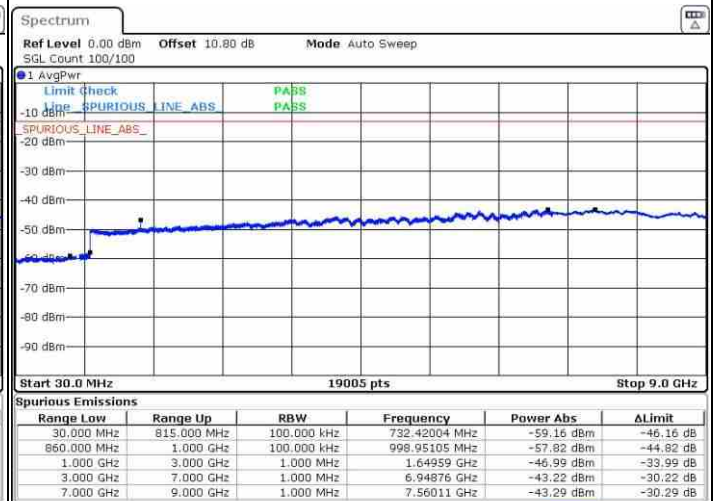
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 21 MAY 2019 20:04:30

Lowest Channel / 16QAM

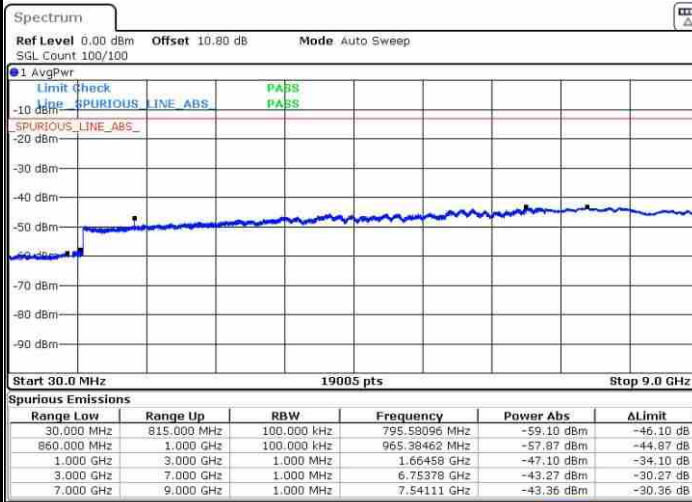


Date: 21 MAY 2019 20:05:16



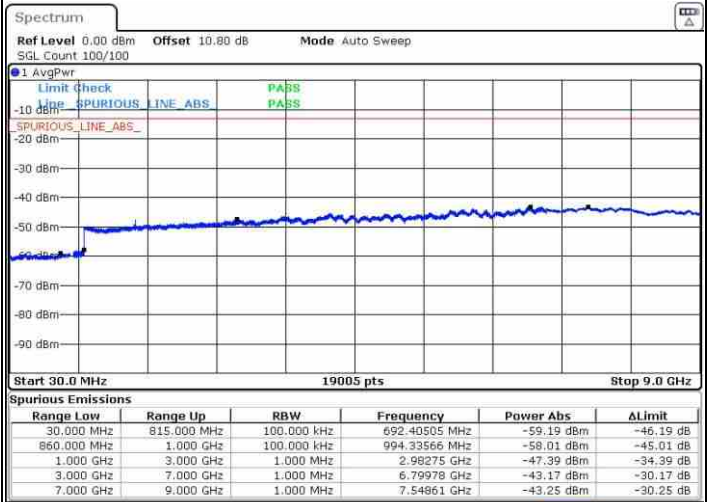
LTE Band 5 / 10MHz

Middle Channel / QPSK



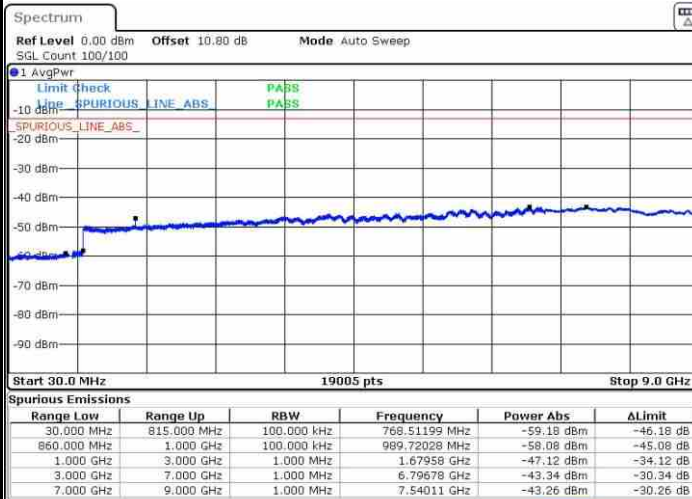
Date: 21 MAY 2019 20:06:50

Middle Channel / 16QAM



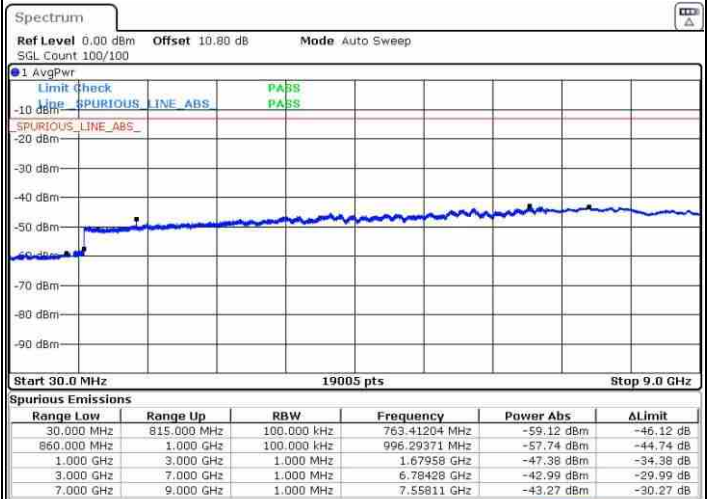
Date: 21 MAY 2019 20:07:35

Highest Channel / QPSK



Date: 21 MAY 2019 20:15:56

Highest Channel / 16QAM

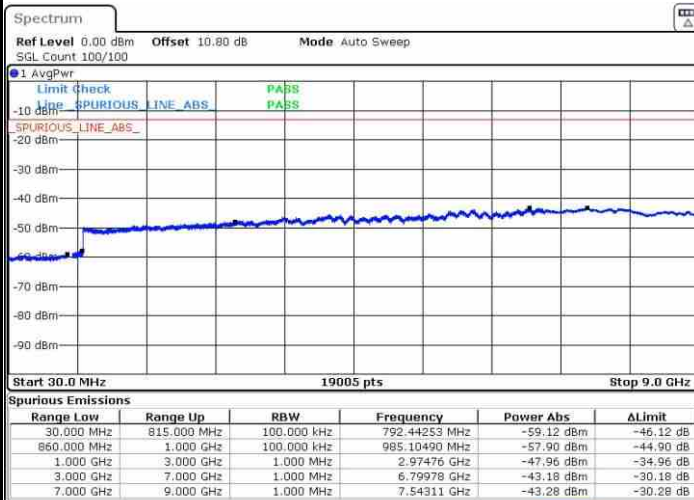


Date: 21 MAY 2019 20:16:42



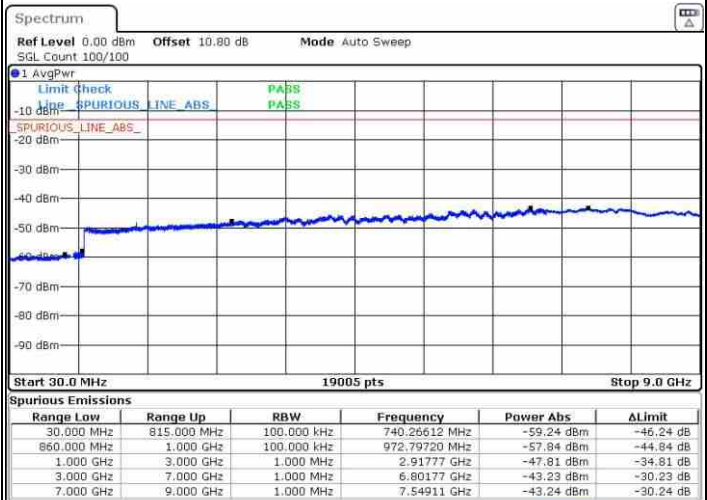
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



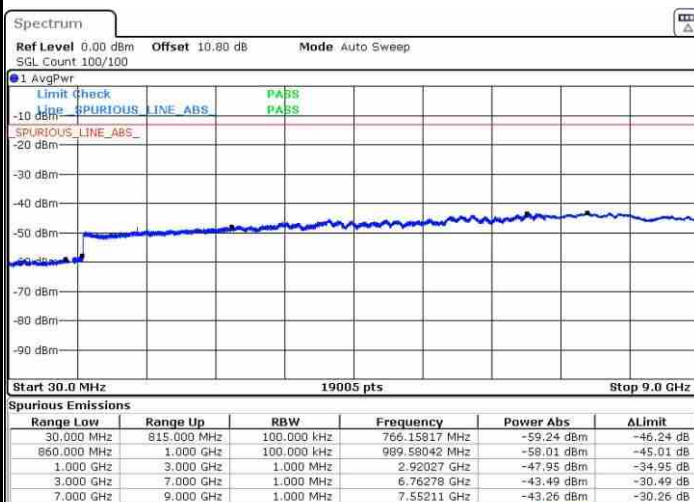
Date: 21 MAY 2019 20:58:12

Middle Channel / 64QAM



Date: 21 MAY 2019 20:59:22

Highest Channel / 64QAM

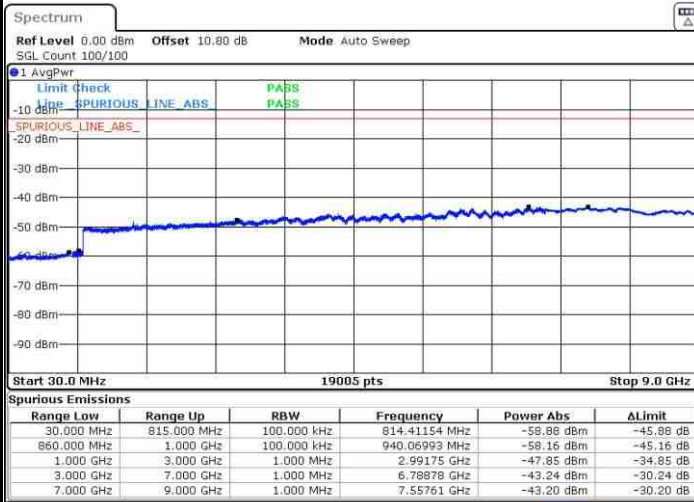


Date: 21 MAY 2019 21:03:54



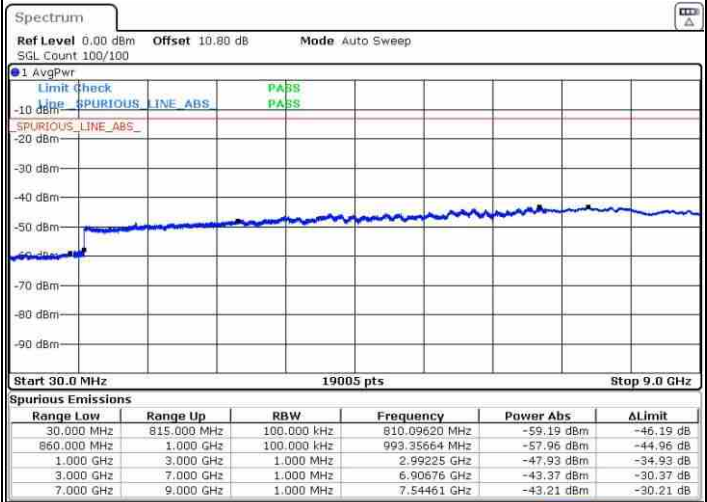
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



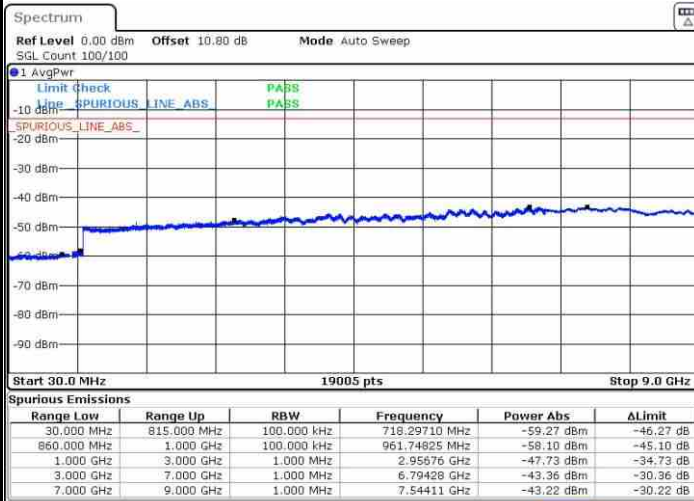
Date: 21 MAY 2019 20:21:16

Middle Channel / 64QAM



Date: 21 MAY 2019 20:22:25

Highest Channel / 64QAM

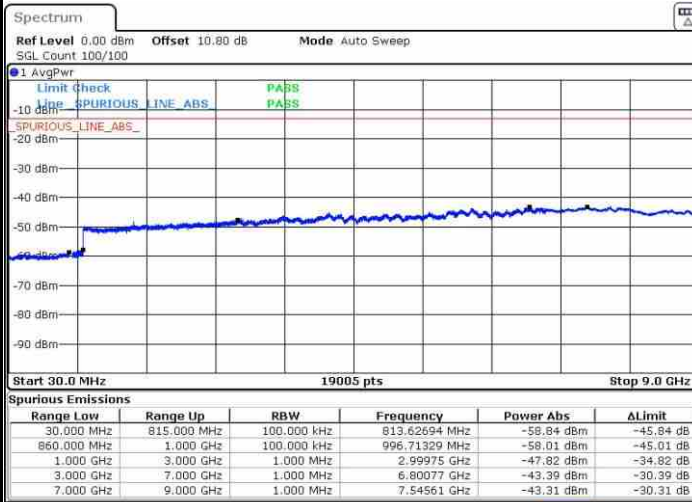


Date: 21 MAY 2019 20:26:58



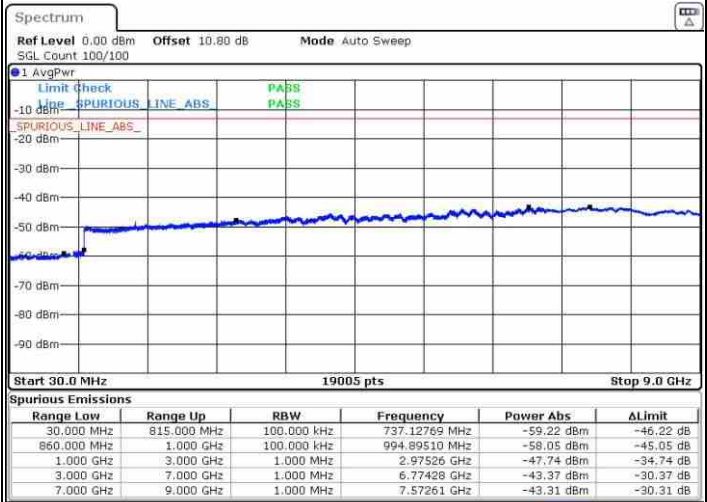
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



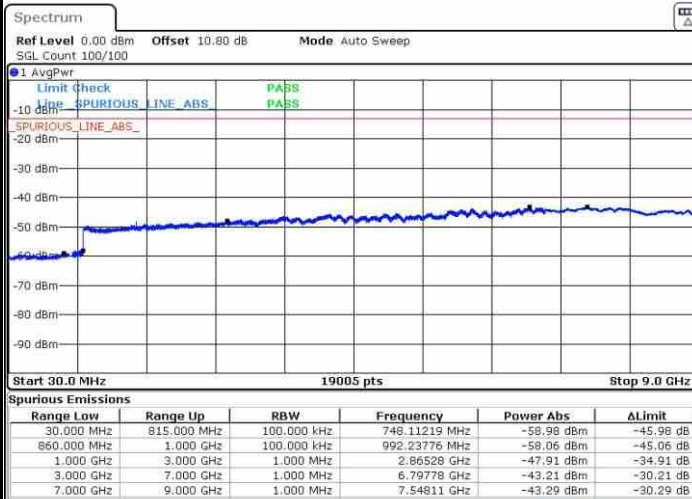
Date: 21 MAY 2019 20:31:31

Middle Channel / 64QAM



Date: 21 MAY 2019 20:32:44

Highest Channel / 64QAM

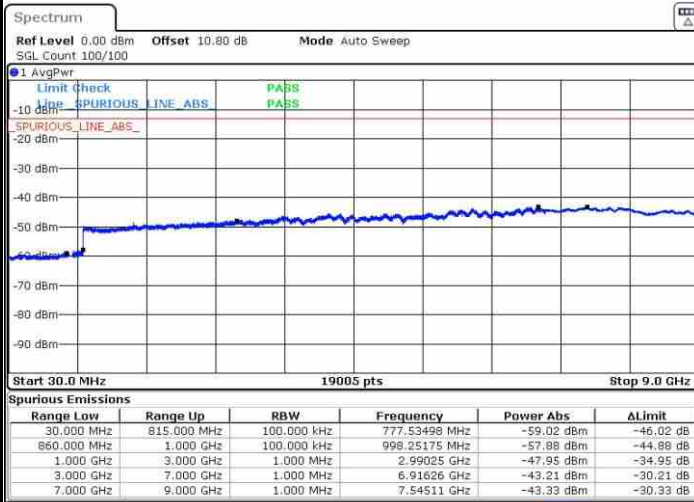


Date: 21 MAY 2019 20:37:17



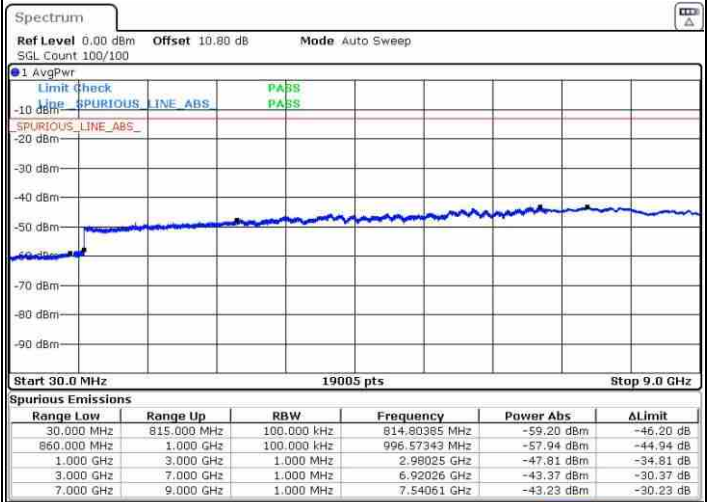
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



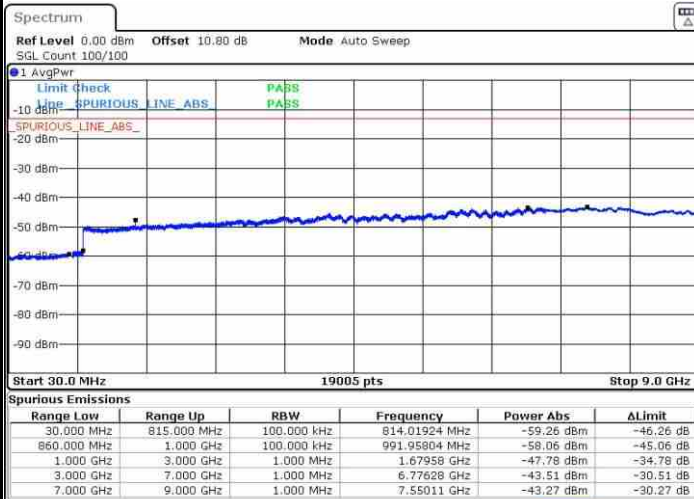
Date: 21 MAY 2019 20:41:52

Middle Channel / 64QAM



Date: 21 MAY 2019 20:43:02

Highest Channel / 64QAM



Date: 21 MAY 2019 20:47:34

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	0.0087	PASS
40	Normal Voltage	0.0073	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0087	
0	Normal Voltage	0.0085	
-10	Normal Voltage	0.0084	
-20	Normal Voltage	0.0108	
-30	Normal Voltage	0.0073	
20	Maximum Voltage	0.0100	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0077	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 5B

26dB Bandwidth

Mode	LTE Band 5B : 26dB BW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Lowest CH	8.15	8.18	14.53
Middle CH	8.11	8.11	14.59
Highest CH	8.07	8.19	14.56
BW	10MHz+5MHz	10MHz+10MHz	
Lowest CH	14.62	19.62	
Middle CH	14.62	19.62	
Highest CH	14.56	19.57	

Mode	LTE Band 5B : 26dB BW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Lowest CH	8.08	8.13	14.56
Middle CH	8.11	8.15	14.56
Highest CH	8.10	8.13	14.50
BW	10MHz+5MHz	10MHz+10MHz	
Lowest CH	14.53	9.71	
Middle CH	14.62	19.54	
Highest CH	14.62	19.57	

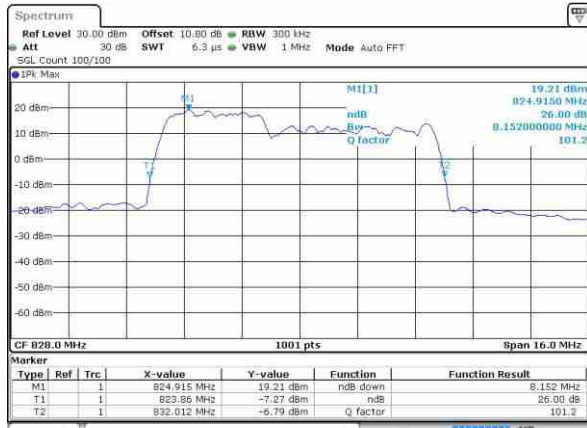
Mode	LTE Band 5B : 26dB BW(MHz)		
64QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Lowest CH	8.05	8.15	14.62
Middle CH	8.13	8.10	14.53
Highest CH	8.05	8.10	14.47
BW	10MHz+5MHz	10MHz+10MHz	
Lowest CH	14.59	19.73	
Middle CH	14.56	19.54	
Highest CH	14.56	19.73	



LTE Band 5B

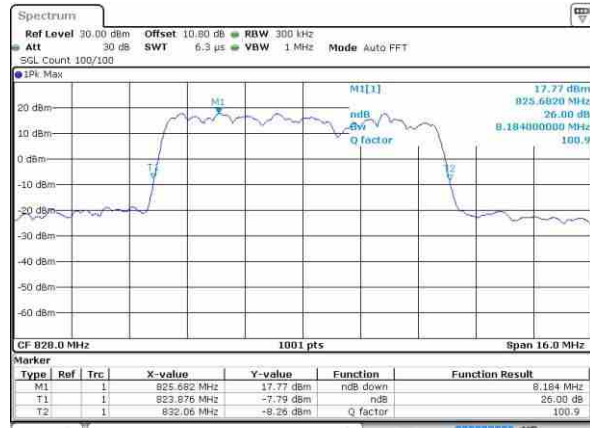
QPSK

Lowest Channel / 3MHz+5MHz



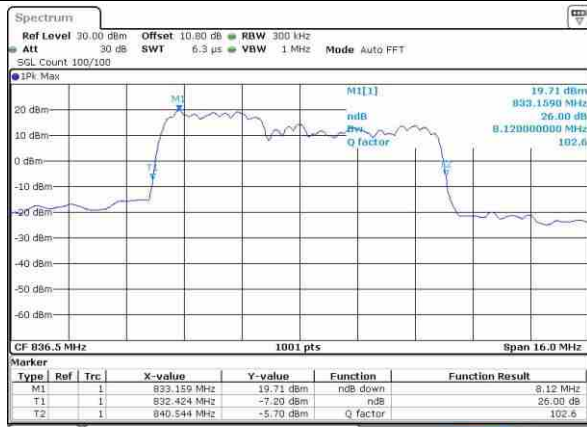
Date: 21 JUN 2019 19:33:46

Lowest Channel / 5MHz+3MHz



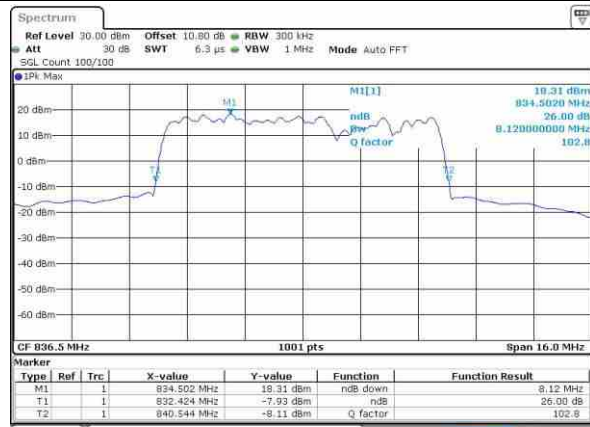
Date: 21 JUN 2019 23:43:03

Middle Channel / 3MHz+5MHz



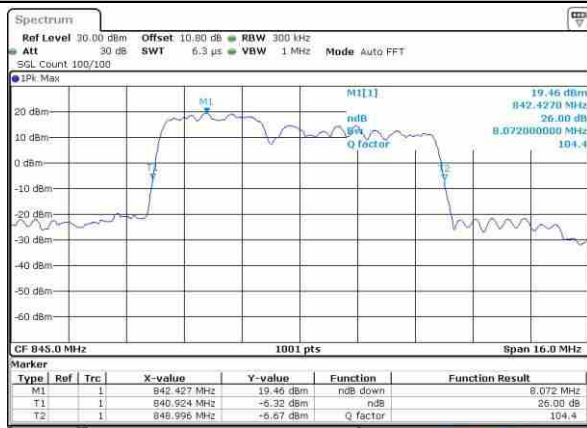
Date: 21 JUN 2019 22:42:49

Middle Channel / 5MHz+3MHz



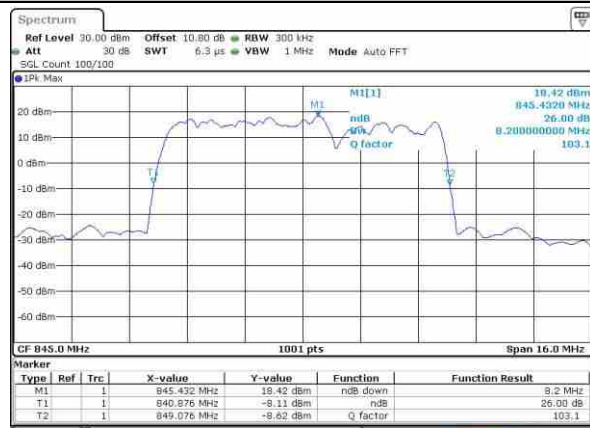
Date: 22 JUN 2019 00:24:23

Highest Channel / 3MHz+5MHz



Date: 21 JUN 2019 23:00:21

Highest Channel / 5MHz+3MHz



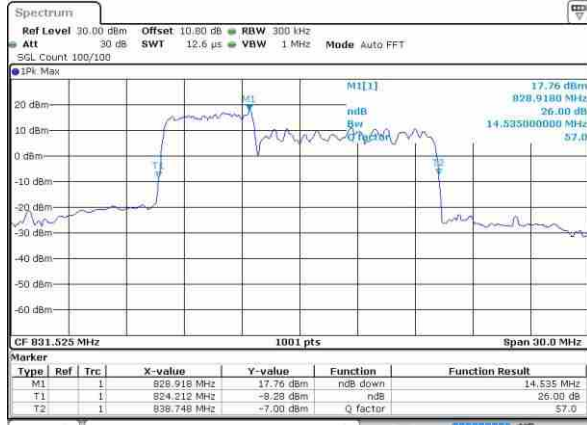
Date: 22 JUN 2019 00:44:54



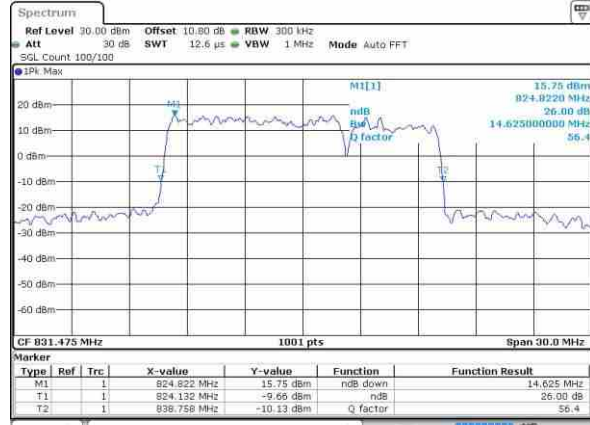
LTE Band 5B

QPSK

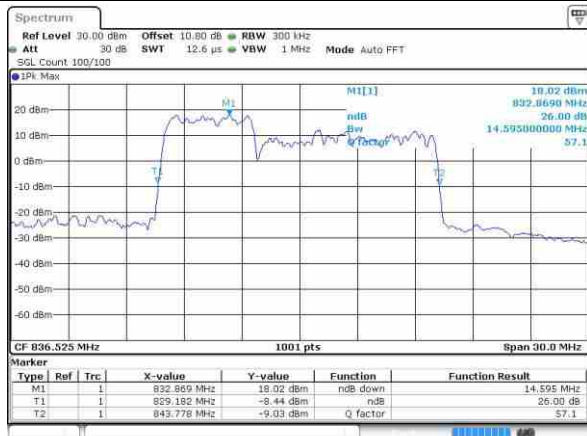
Lowest Channel / 5MHz+10MHz



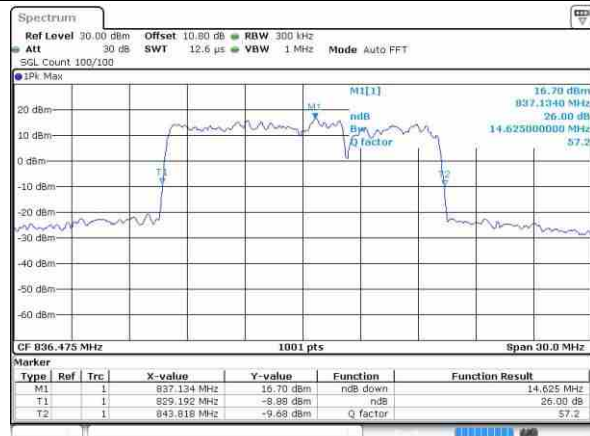
Lowest Channel / 10MHz+5MHz



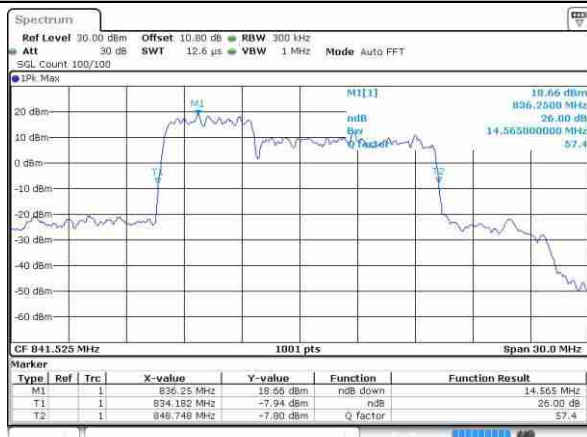
Middle Channel / 5MHz+10MHz



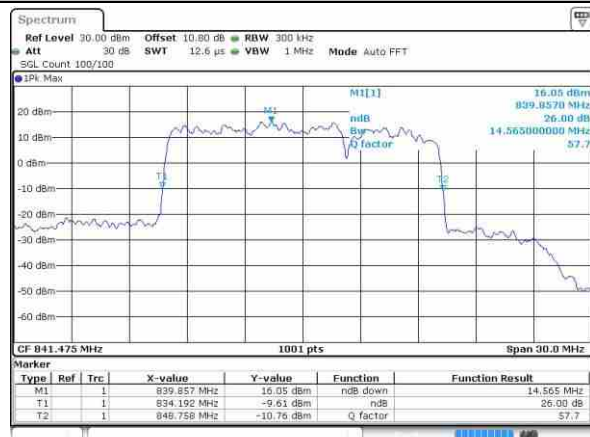
Middle Channel / 10MHz+5MHz



Highest Channel / 5MHz+10MHz



Highest Channel / 10MHz+5MHz

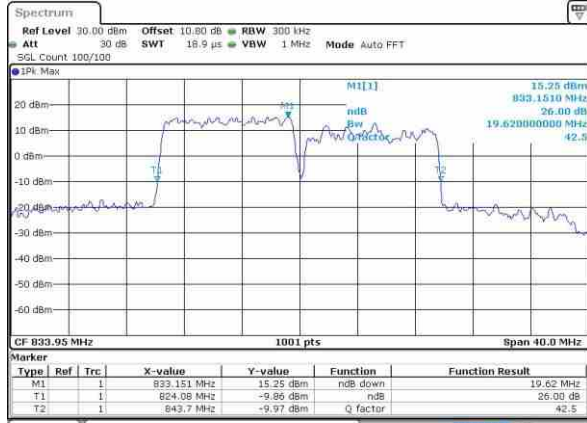




LTE Band 5B

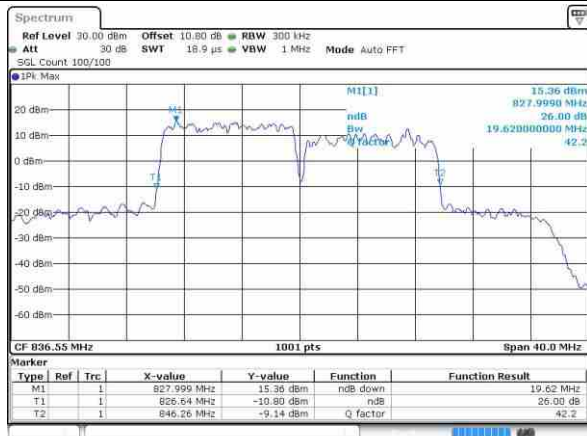
QPSK

Lowest Channel / 10MHz+10MHz



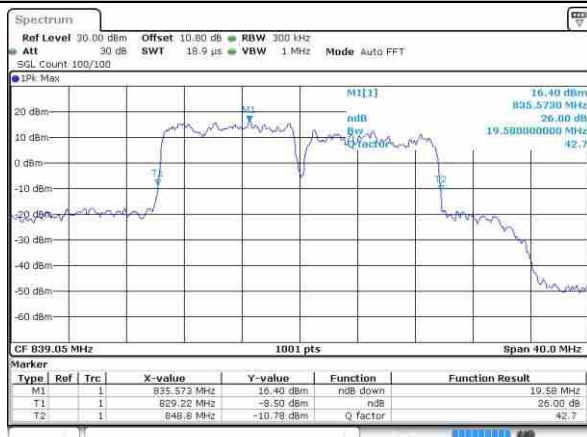
Date: 25 JUN 2019 02:20:21

Middle Channel / 10MHz+10MHz



Date: 25 JUN 2019 02:46:43

Highest Channel / 10MHz+10MHz



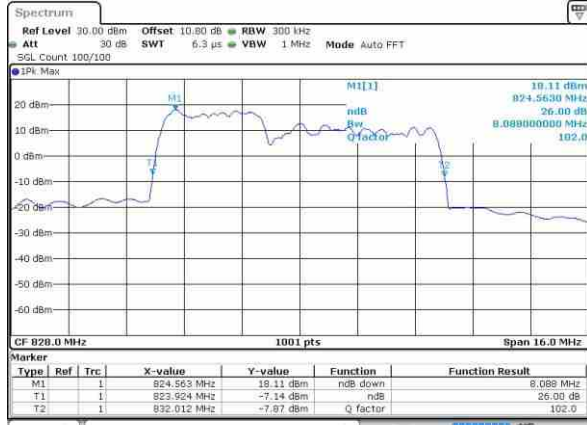
Date: 25 JUN 2019 03:32:15



LTE Band 5B

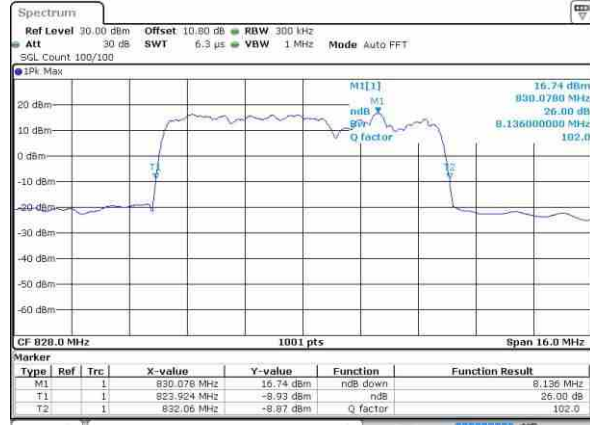
16QAM

Lowest Channel / 3MHz+5MHz



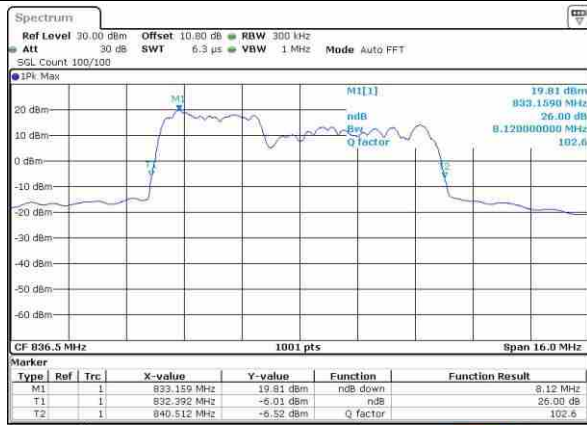
Date: 21 JUN 2019 19:32:58

Lowest Channel / 5MHz+3MHz



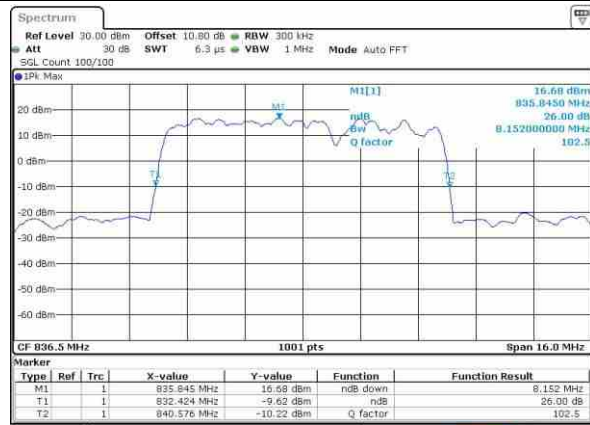
Date: 21 JUN 2019 23:42:15

Middle Channel / 3MHz+5MHz



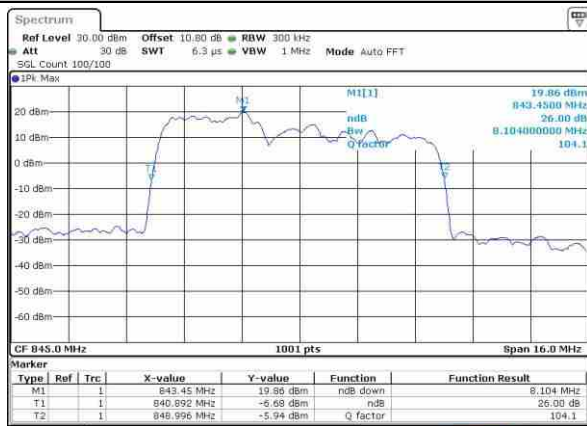
Date: 21 JUN 2019 22:42:01

Middle Channel / 5MHz+3MHz



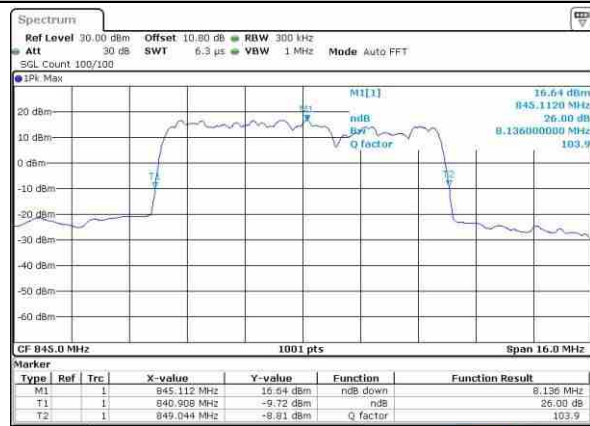
Date: 22 JUN 2019 00:23:35

Highest Channel / 3MHz+5MHz



Date: 21 JUN 2019 23:01:09

Highest Channel / 5MHz+3MHz



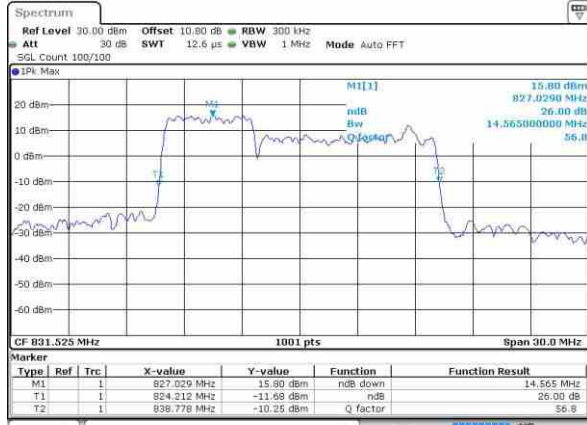
Date: 22 JUN 2019 00:45:41



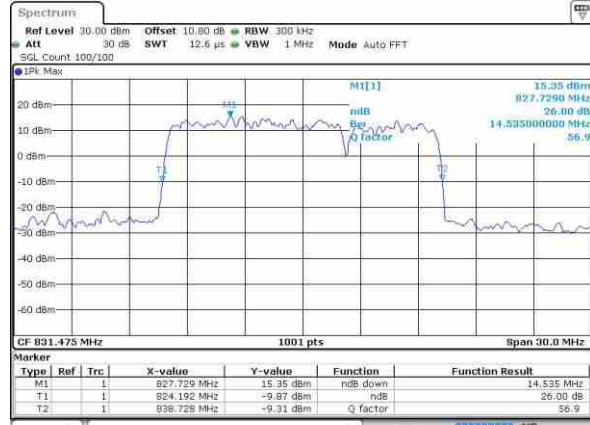
LTE Band 5B

16QAM

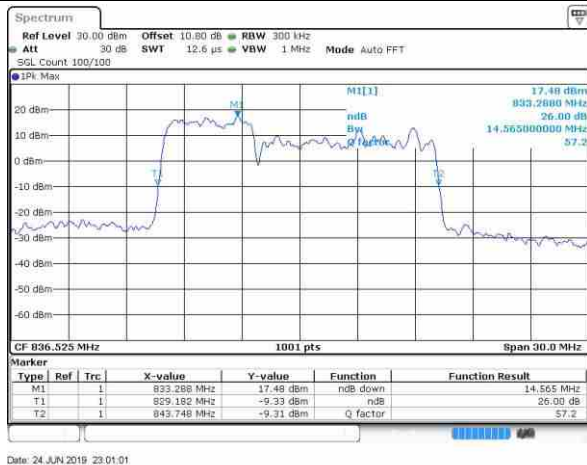
Lowest Channel / 5MHz+10MHz



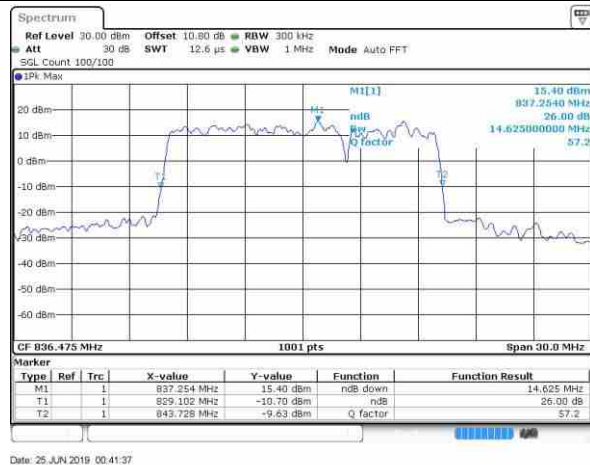
Lowest Channel / 10MHz+5MHz



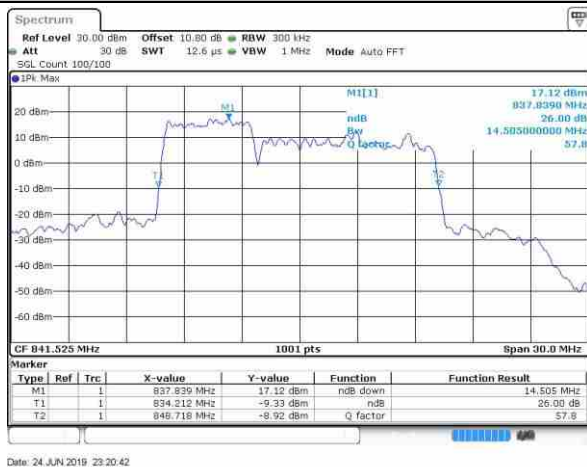
Middle Channel / 5MHz+10MHz



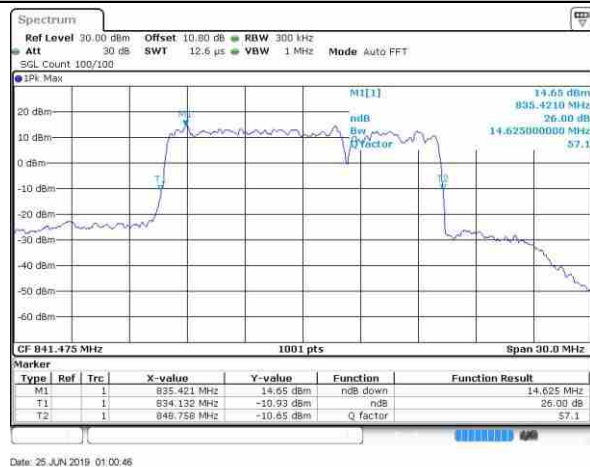
Middle Channel / 10MHz+5MHz



Highest Channel / 5MHz+10MHz



Highest Channel / 10MHz+5MHz

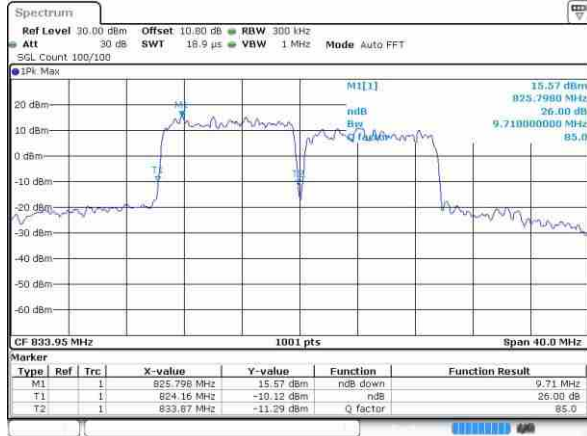




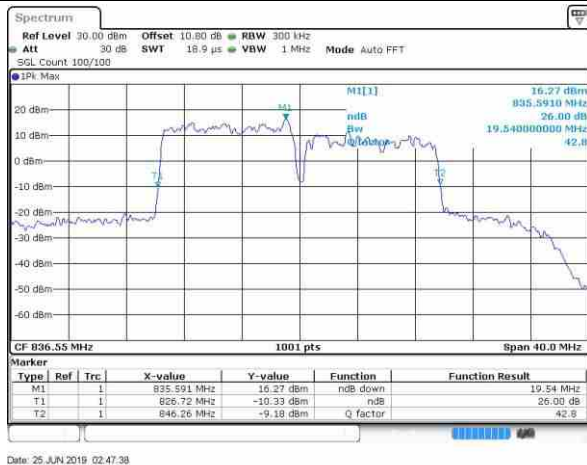
LTE Band 5B

16QAM

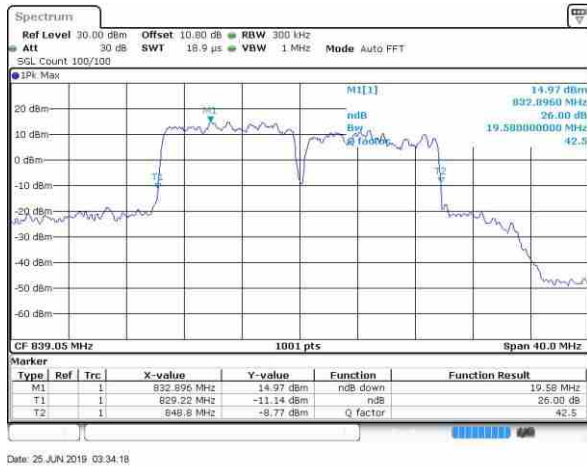
Lowest Channel / 10MHz+10MHz



Middle Channel / 10MHz+10MHz



Highest Channel / 10MHz+10MHz

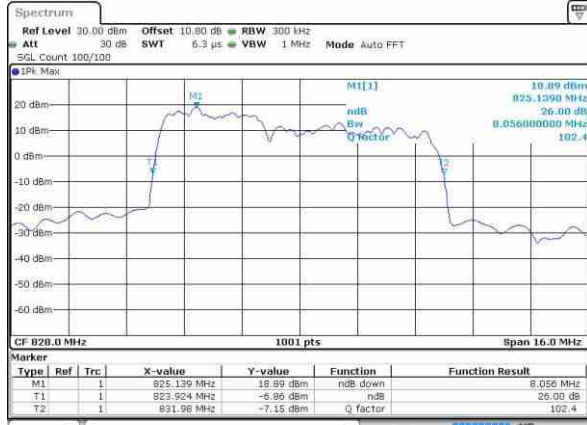




LTE Band 5B

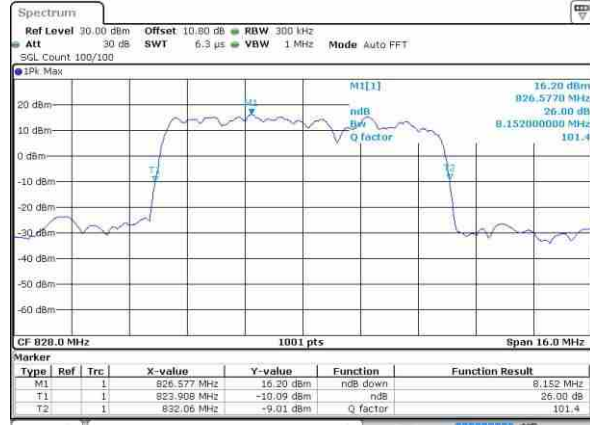
64QAM

Lowest Channel / 3MHz+5MHz



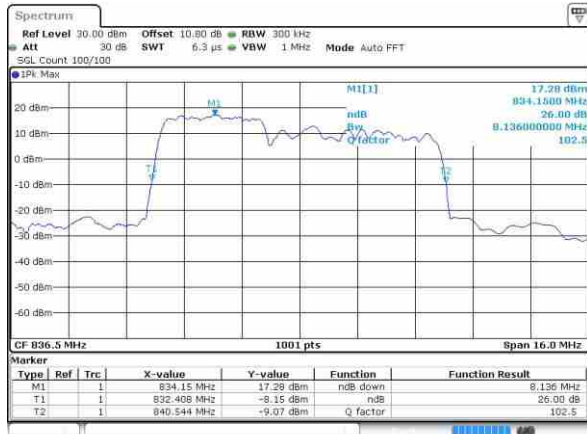
Date: 21 JUN 2019 19:32:11

Lowest Channel / 5MHz+3MHz



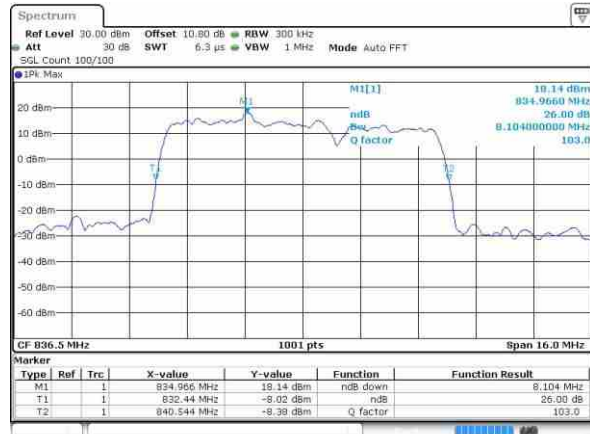
Date: 21 JUN 2019 23:41:27

Middle Channel / 3MHz+5MHz



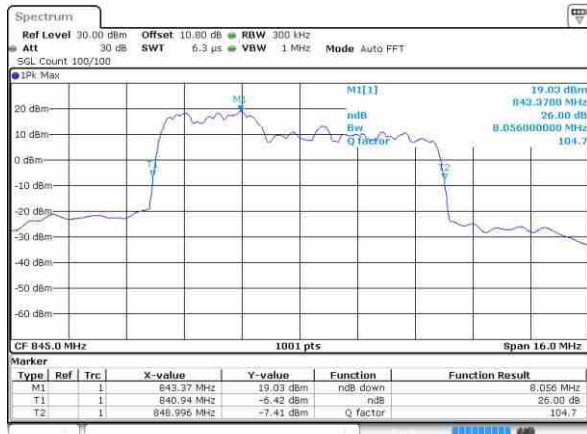
Date: 21 JUN 2019 22:41:13

Middle Channel / 5MHz+3MHz



Date: 22 JUN 2019 00:22:47

Highest Channel / 3MHz+5MHz



Date: 21 JUN 2019 23:01:57

Highest Channel / 5MHz+3MHz



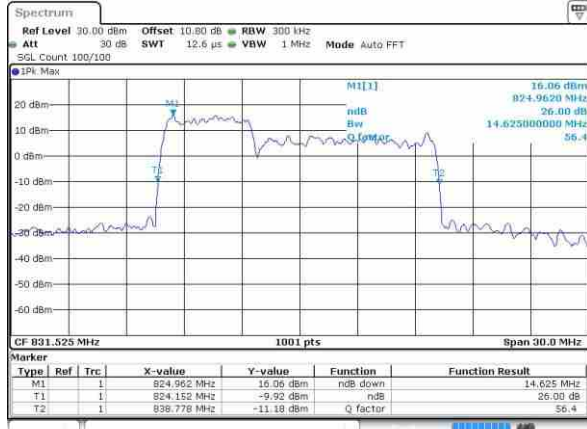
Date: 22 JUN 2019 00:46:26



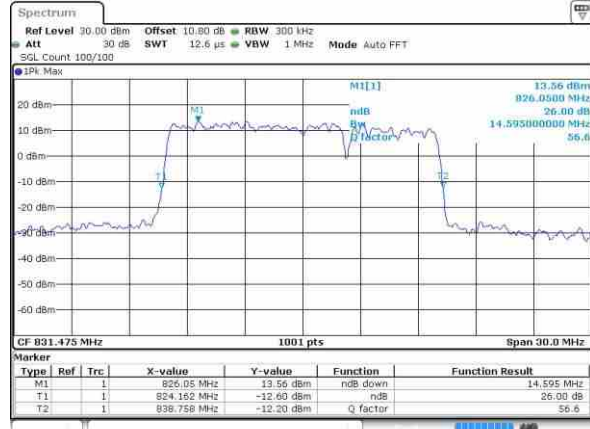
LTE Band 5B

64QAM

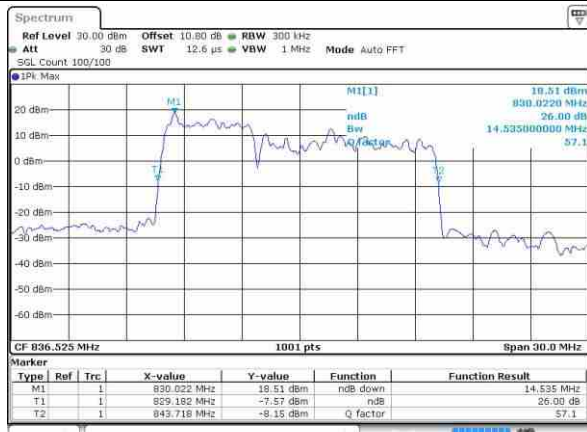
Lowest Channel / 5MHz+10MHz



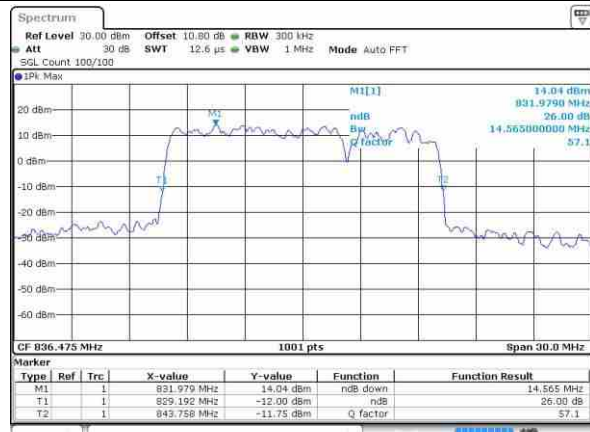
Lowest Channel / 10MHz+5MHz



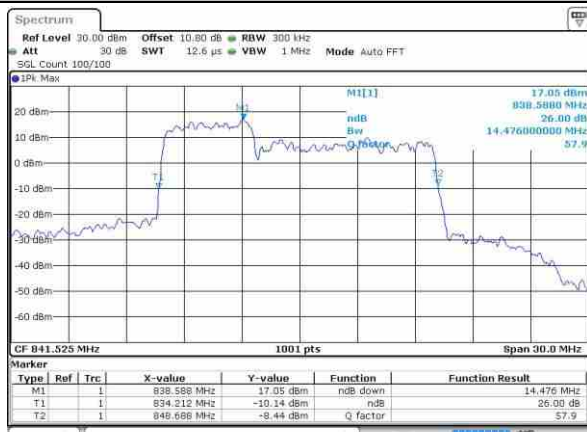
Middle Channel / 5MHz+10MHz



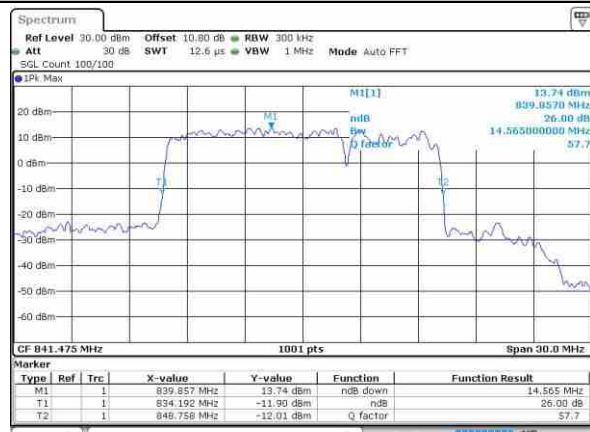
Middle Channel / 10MHz+5MHz



Highest Channel / 5MHz+10MHz



Highest Channel / 10MHz+5MHz

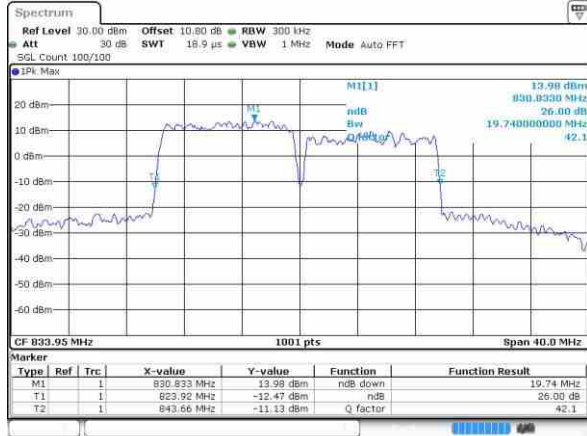




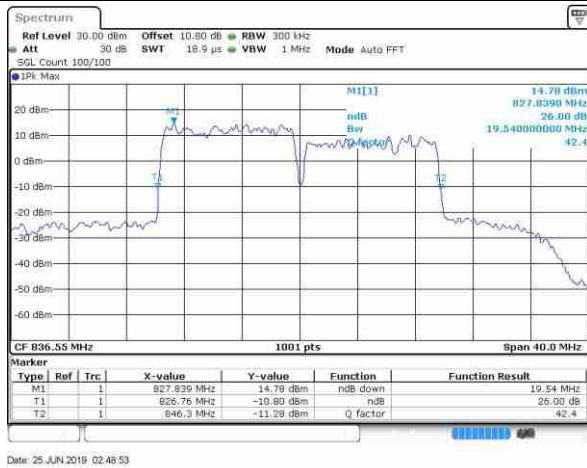
LTE Band 5B

64QAM

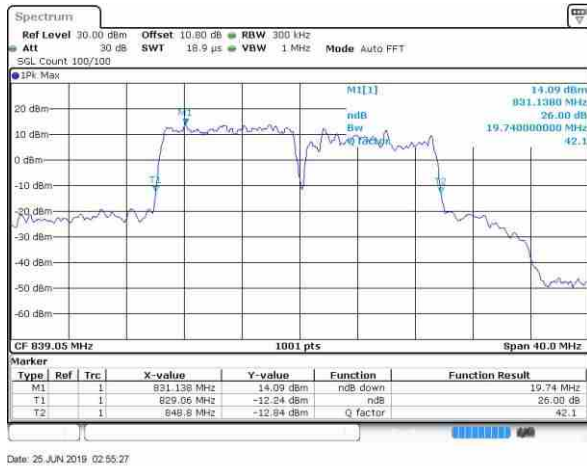
Lowest Channel / 10MHz+10MHz



Middle Channel / 10MHz+10MHz



Highest Channel / 10MHz+10MHz



Occupied Bandwidth

Mode	LTE Band 5B : 99%OBW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Lowest CH	7.51	7.57	13.87
Middle CH	7.48	7.49	13.78
Highest CH	7.48	7.52	13.66
BW	10MHz+5MHz	10MHz+10MHz	
Lowest CH	13.84	18.74	
Middle CH	13.87	18.58	
Highest CH	13.87	18.62	

Mode	LTE Band 5B : 99%OBW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Lowest CH	7.49	7.51	13.81
Middle CH	7.52	7.52	13.75
Highest CH	7.51	7.49	13.90
BW	10MHz+5MHz	10MHz+10MHz	
Lowest CH	13.78	18.74	
Middle CH	13.93	18.62	
Highest CH	13.84	18.74	

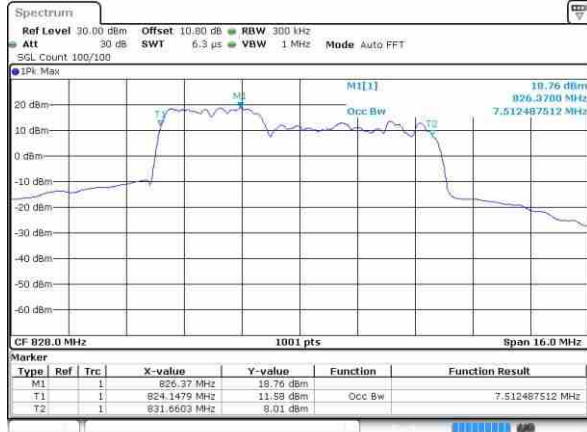
Mode	LTE Band 5B : 99%OBW(MHz)		
64QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Lowest CH	7.51	7.49	13.72
Middle CH	7.49	7.48	13.72
Highest CH	7.41	7.54	13.72
BW	10MHz+5MHz	10MHz+10MHz	
Lowest CH	13.81	18.74	
Middle CH	13.87	18.82	
Highest CH	13.78	18.86	



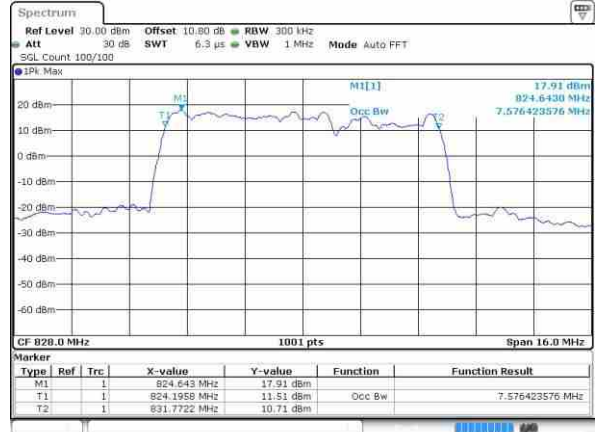
LTE Band 5B

QPSK

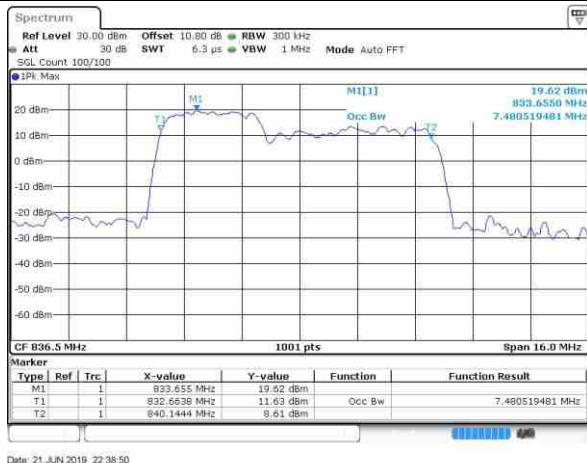
Lowest Channel / 3MHz+5MHz



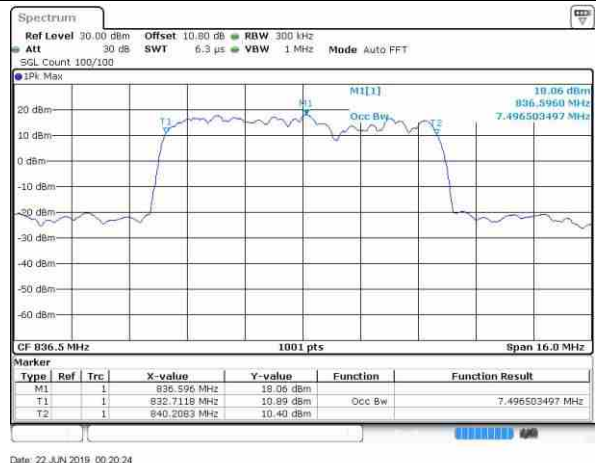
Lowest Channel / 5MHz+3MHz



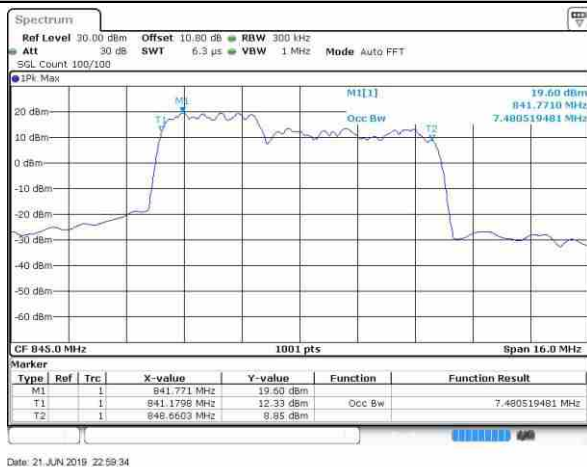
Middle Channel / 3MHz+5MHz



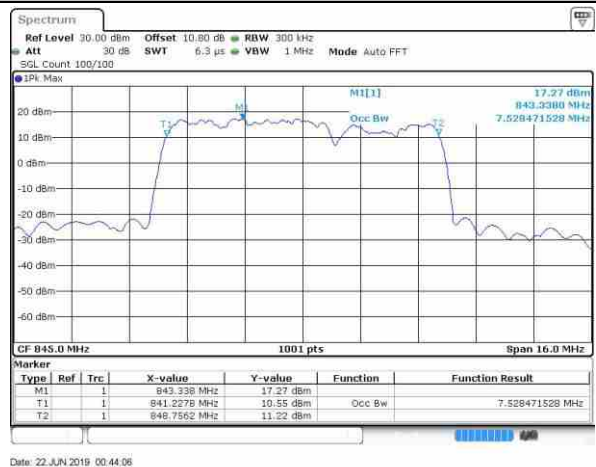
Middle Channel / 5MHz+3MHz



Highest Channel / 3MHz+5MHz



Highest Channel / 5MHz+3MHz

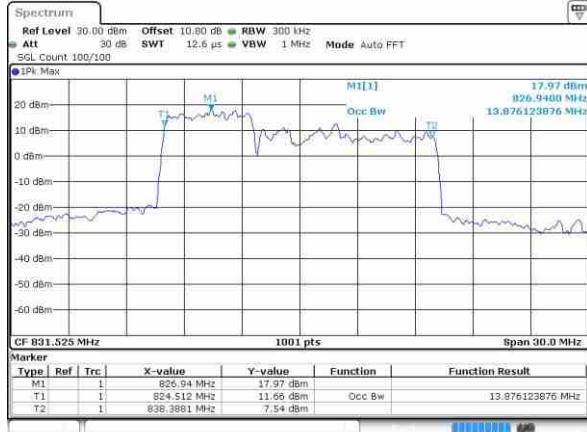




LTE Band 5B

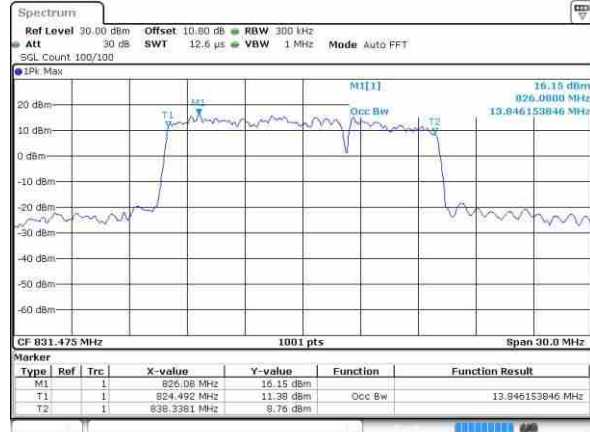
QPSK

Lowest Channel / 5MHz+10MHz



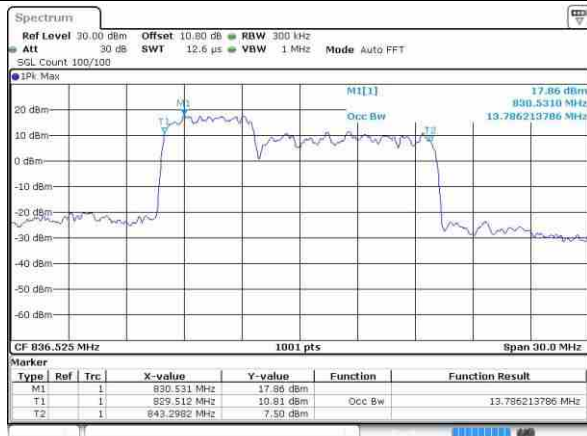
Date: 22 JUN 2019 01:33:22

Lowest Channel / 10MHz+5MHz



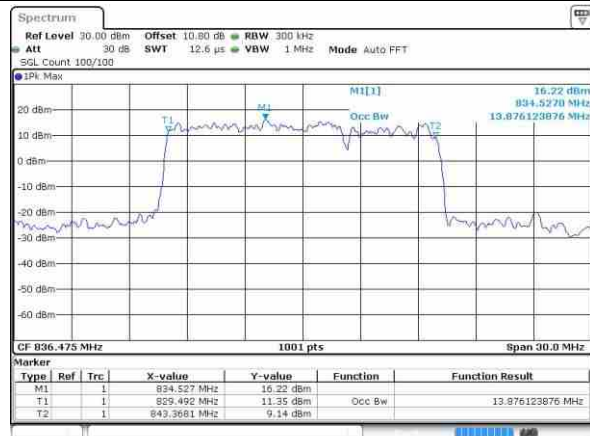
Date: 24 JUN 2019 23:58:31

Middle Channel / 5MHz+10MHz



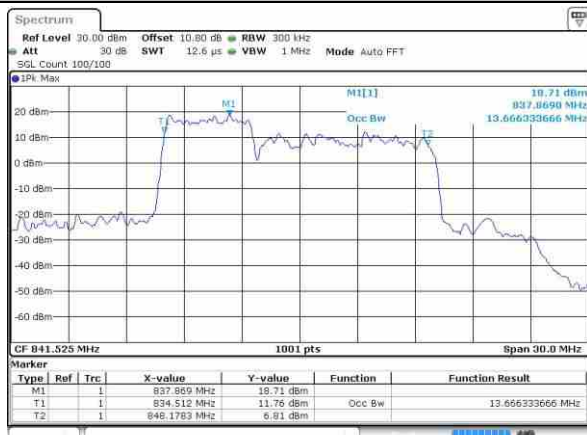
Date: 24 JUN 2019 22:57:48

Middle Channel / 10MHz+5MHz



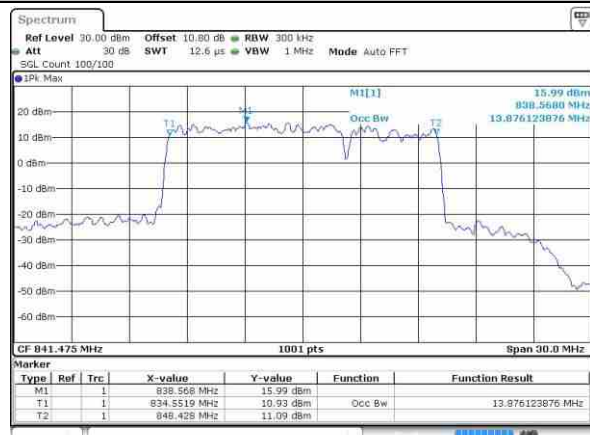
Date: 25 JUN 2019 00:38:24

Highest Channel / 5MHz+10MHz



Date: 24 JUN 2019 23:19:06

Highest Channel / 10MHz+5MHz



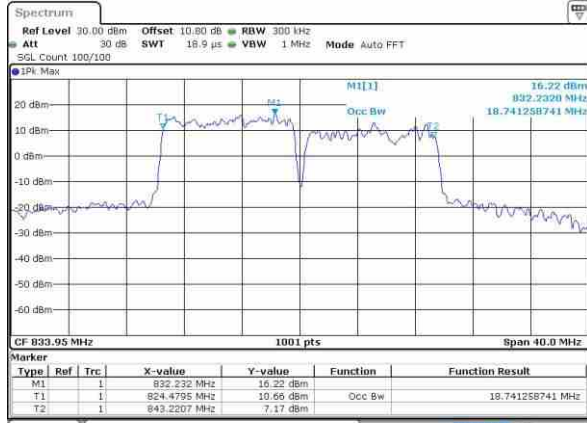
Date: 25 JUN 2019 00:59:10



LTE Band 5B

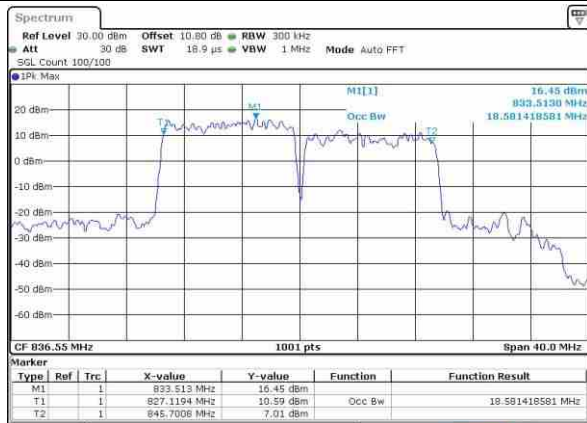
QPSK

Lowest Channel / 10MHz+10MHz



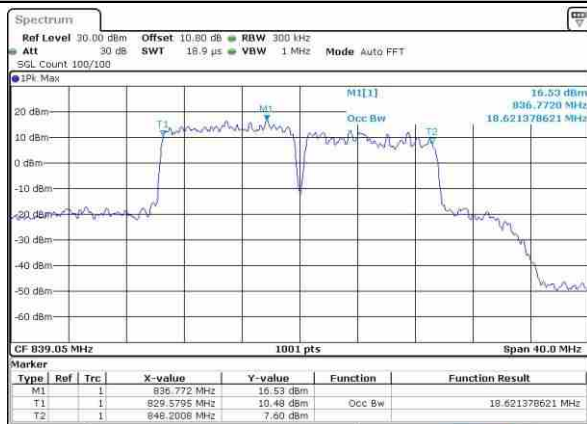
Date: 25 JUN 2019 01:37:48

Middle Channel / 10MHz+10MHz



Date: 25 JUN 2019 02:22:27

Highest Channel / 10MHz+10MHz



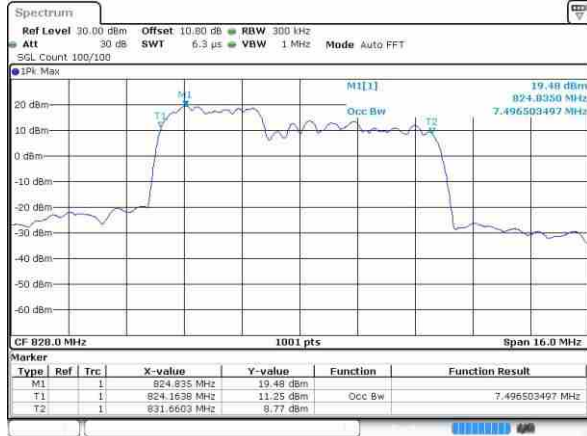
Date: 25 JUN 2019 02:53:03



LTE Band 5B

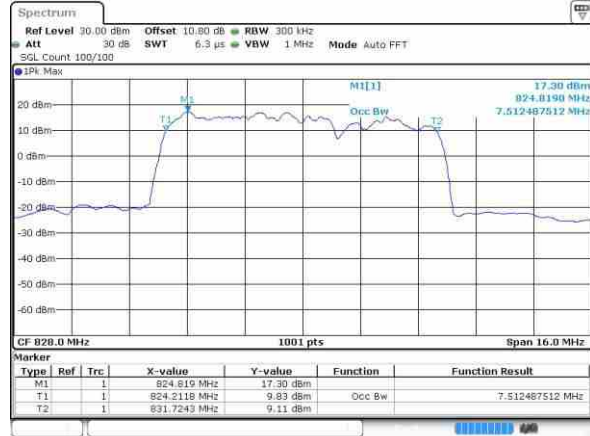
16QAM

Lowest Channel / 3MHz+5MHz



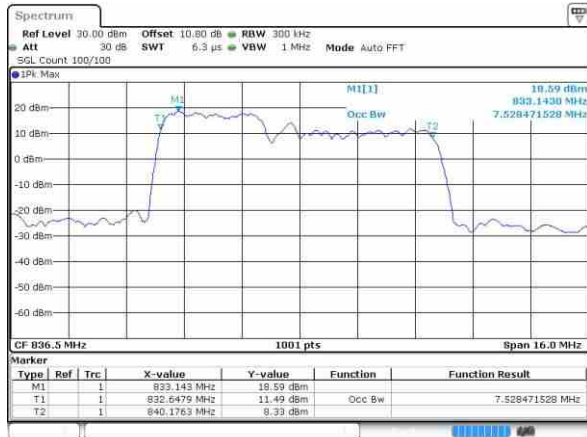
Date: 21 JUN 2019 19:30:35

Lowest Channel / 5MHz+3MHz



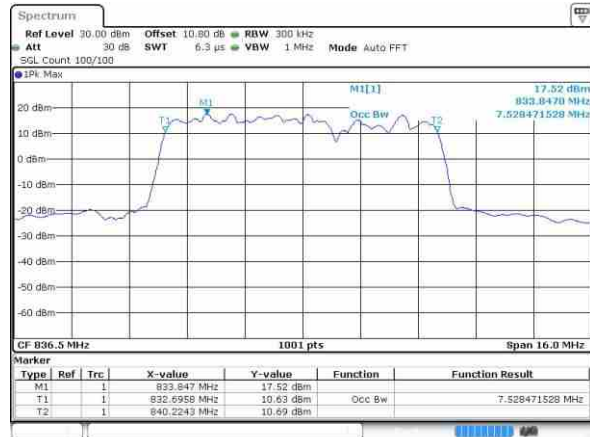
Date: 21 JUN 2019 23:39:52

Middle Channel / 3MHz+5MHz



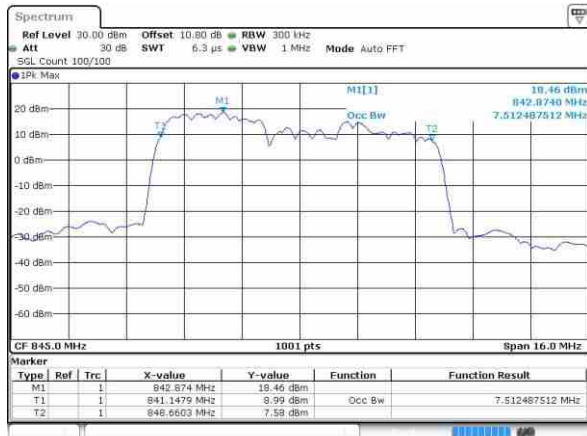
Date: 21 JUN 2019 22:39:38

Middle Channel / 5MHz+3MHz



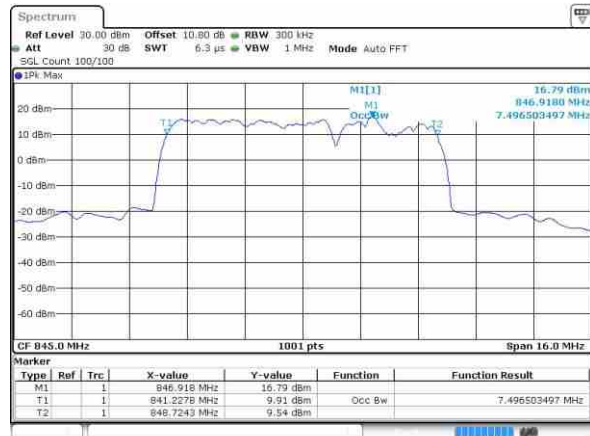
Date: 22 JUN 2019 00:21:12

Highest Channel / 3MHz+5MHz



Date: 21 JUN 2019 22:58:46

Highest Channel / 5MHz+3MHz



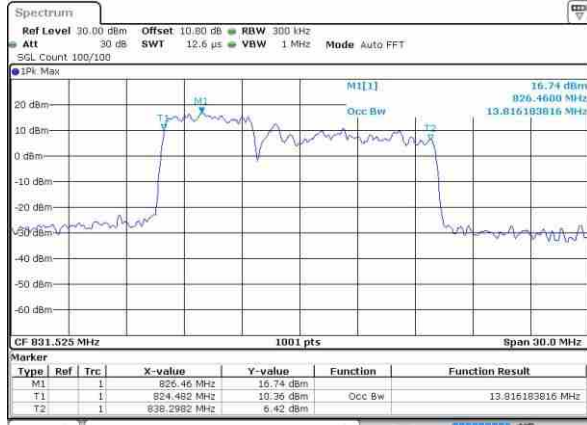
Date: 22 JUN 2019 00:43:18



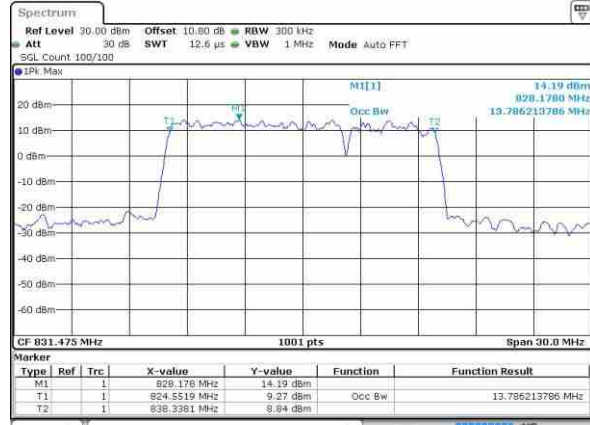
LTE Band 5B

16QAM

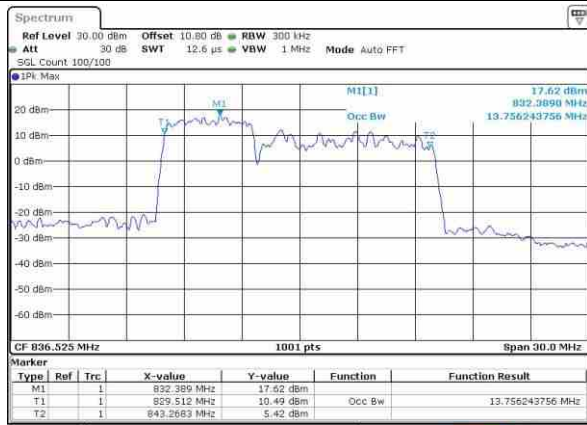
Lowest Channel / 5MHz+10MHz



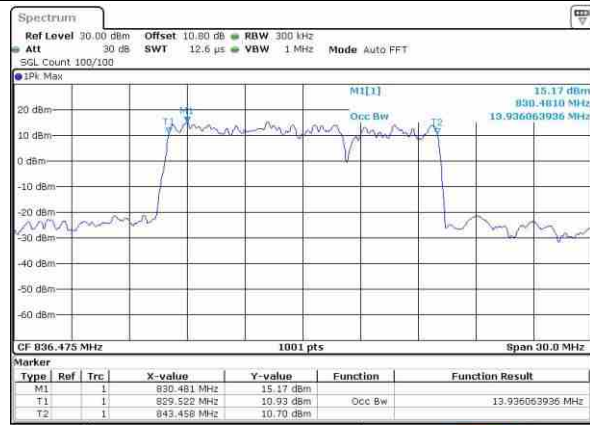
Lowest Channel / 10MHz+5MHz



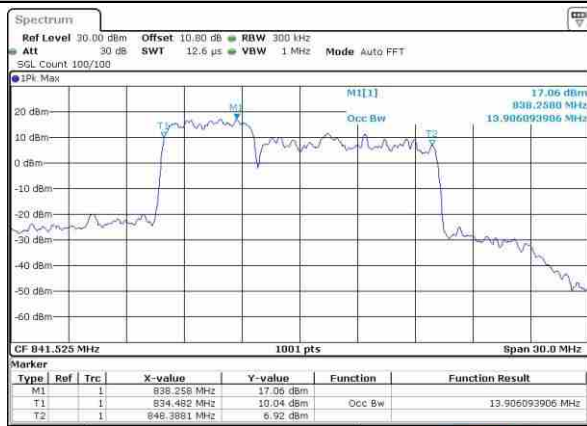
Middle Channel / 5MHz+10MHz



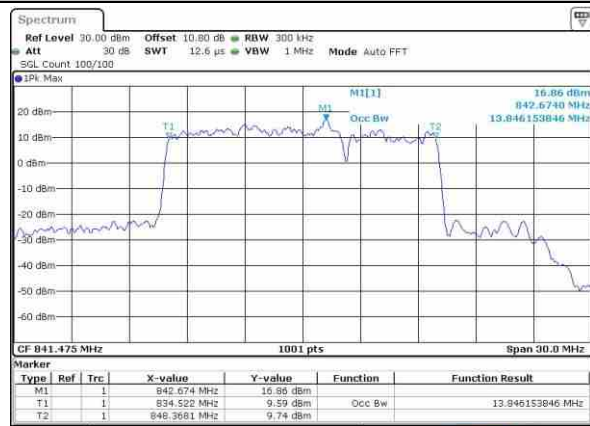
Middle Channel / 10MHz+5MHz



Highest Channel / 5MHz+10MHz



Highest Channel / 10MHz+5MHz

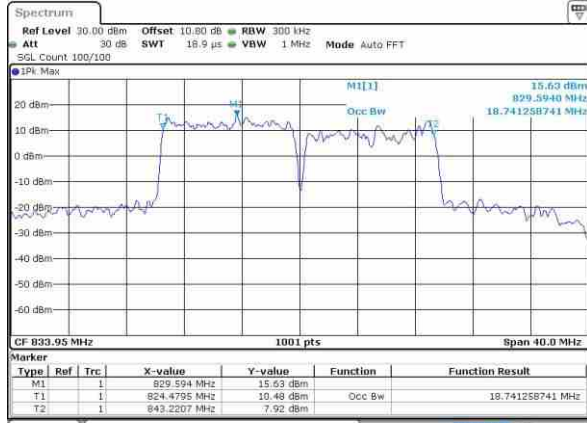




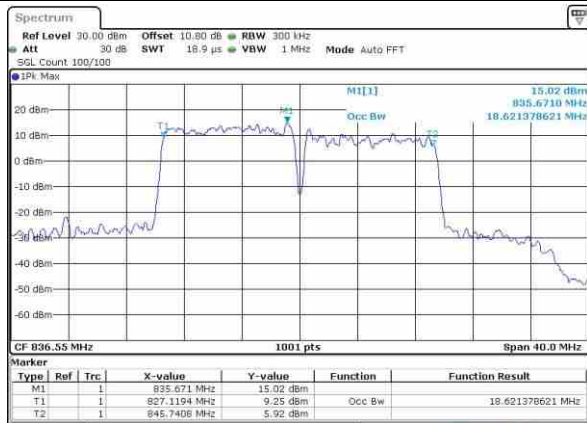
LTE Band 5B

16QAM

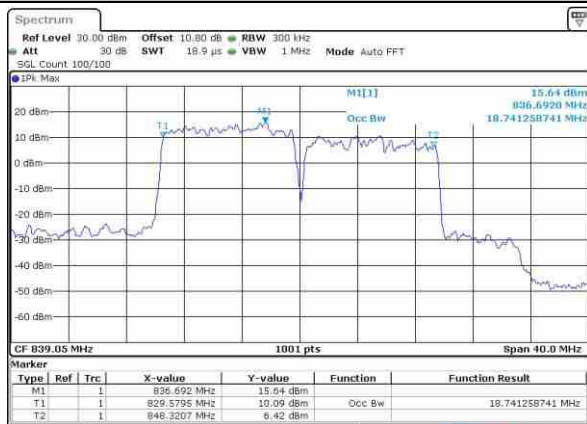
Lowest Channel / 10MHz+10MHz



Middle Channel / 10MHz+10MHz



Highest Channel / 10MHz+10MHz

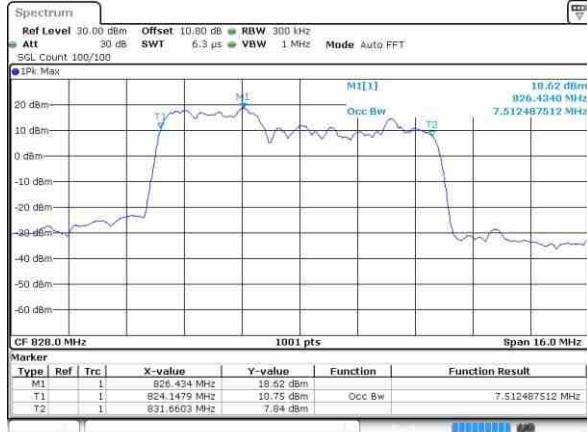




LTE Band 5B

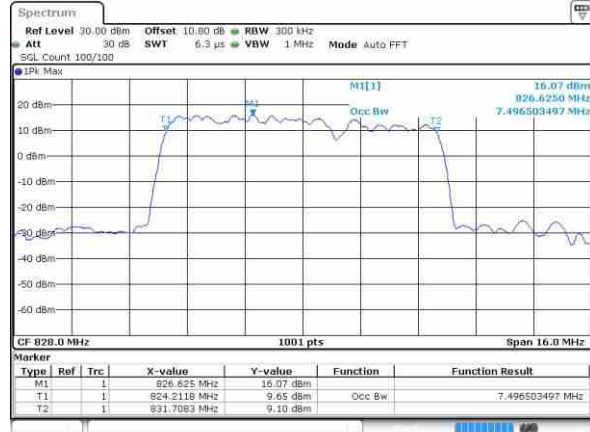
64QAM

Lowest Channel / 3MHz+5MHz



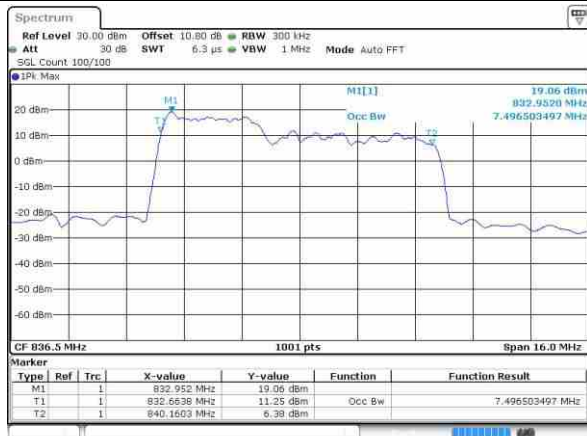
Date: 21 JUN 2019 19:31:23

Lowest Channel / 5MHz+3MHz



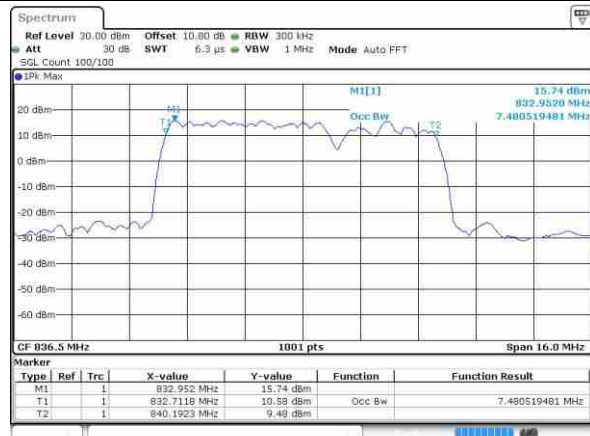
Date: 21 JUN 2019 23:40:40

Middle Channel / 3MHz+5MHz



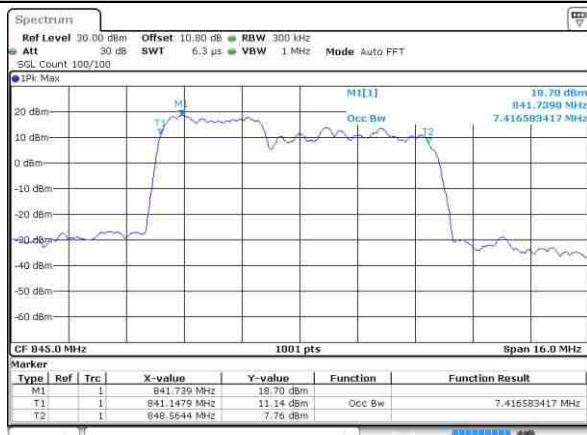
Date: 21 JUN 2019 22:40:26

Middle Channel / 5MHz+3MHz



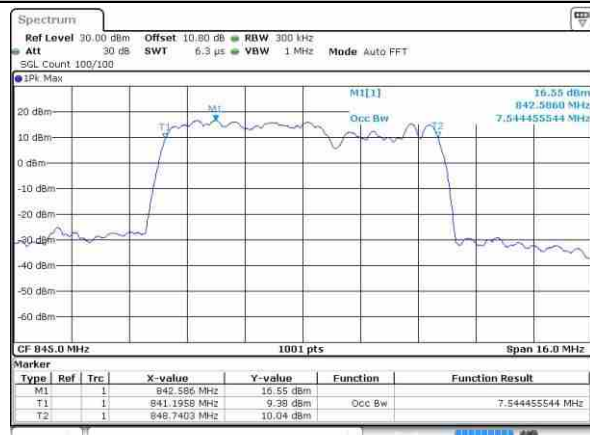
Date: 22 JUN 2019 00:22:00

Highest Channel / 3MHz+5MHz



Date: 21 JUN 2019 22:57:58

Highest Channel / 5MHz+3MHz



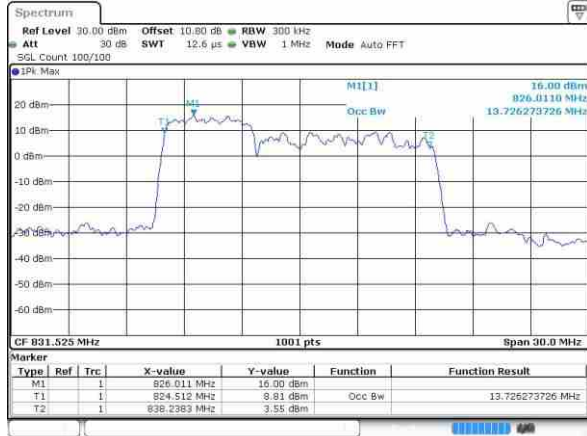
Date: 22 JUN 2019 00:42:30



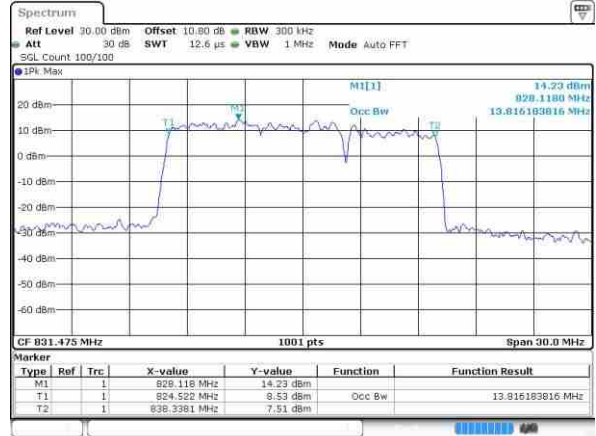
LTE Band 5B

64QAM

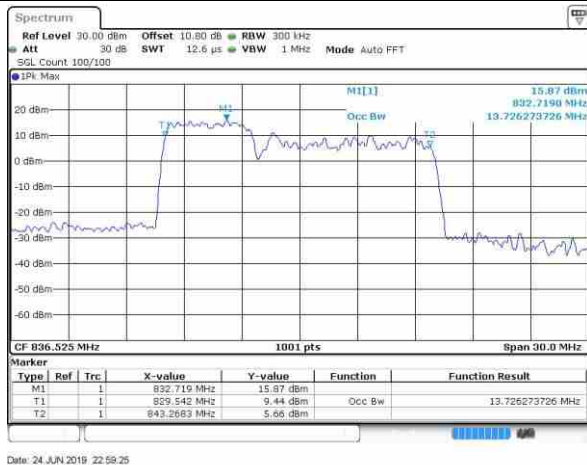
Lowest Channel / 5MHz+10MHz



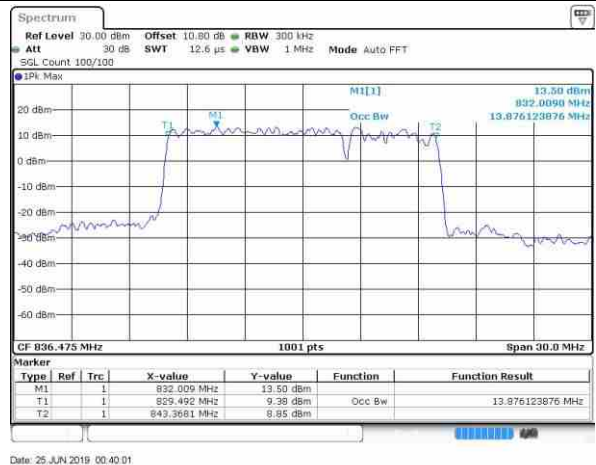
Lowest Channel / 10MHz+5MHz



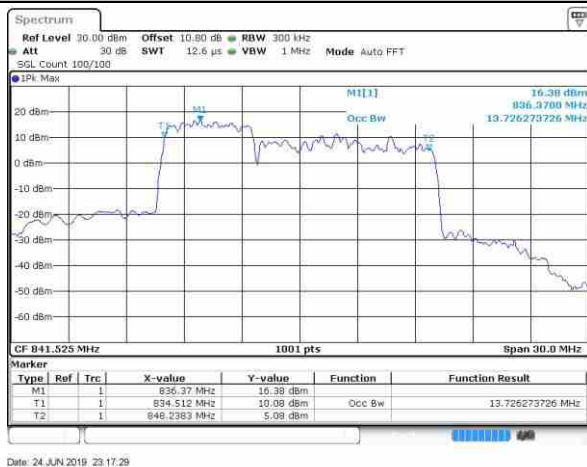
Middle Channel / 5MHz+10MHz



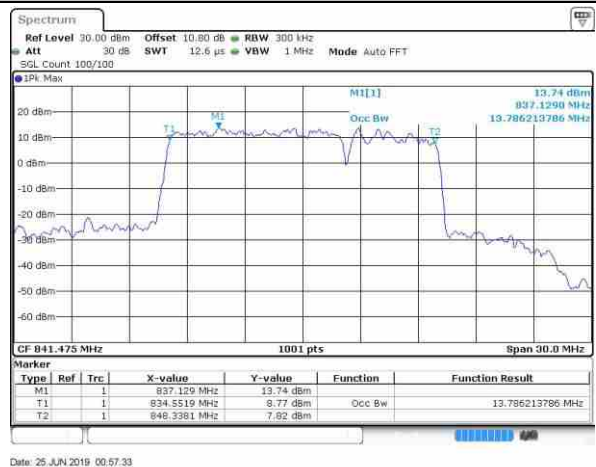
Middle Channel / 10MHz+5MHz



Highest Channel / 5MHz+10MHz



Highest Channel / 10MHz+5MHz

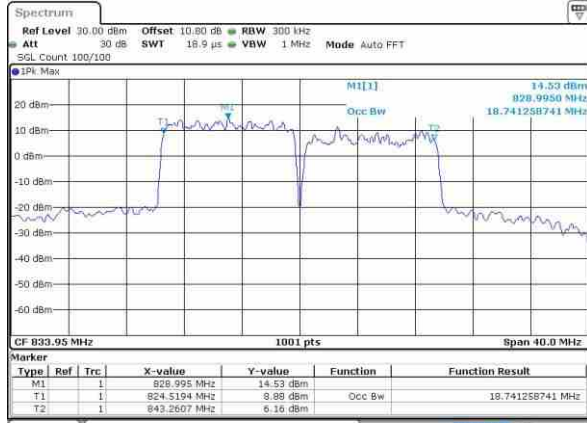




LTE Band 5B

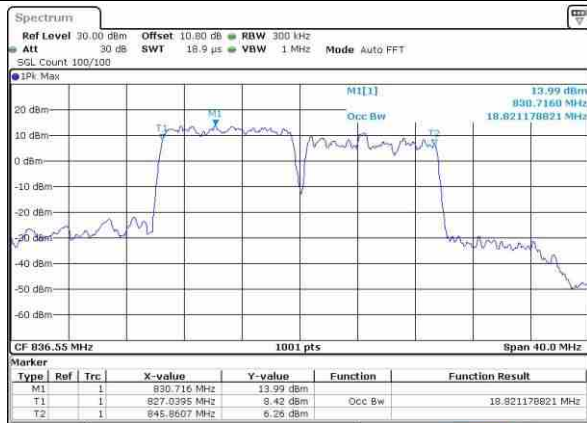
64QAM

Lowest Channel / 10MHz+10MHz



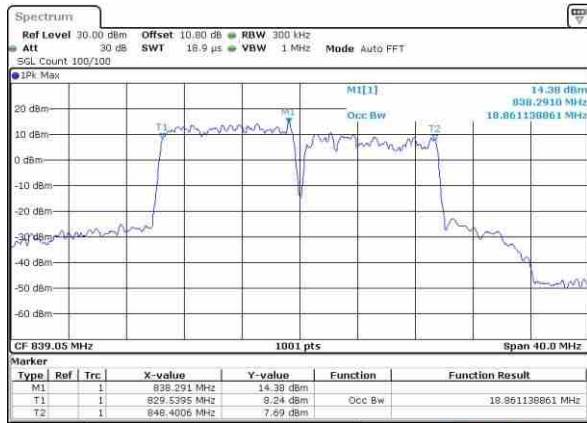
Date: 25 JUN 2019 01:39:25

Middle Channel / 10MHz+10MHz



Date: 25 JUN 2019 02:24:04

Highest Channel / 10MHz+10MHz



Date: 25 JUN 2019 02:51:27



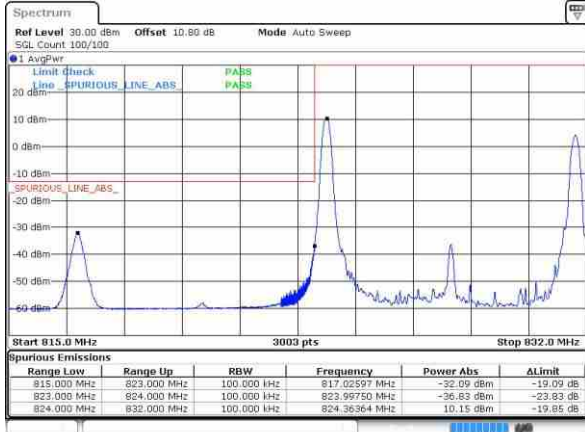
Conducted Band Edge



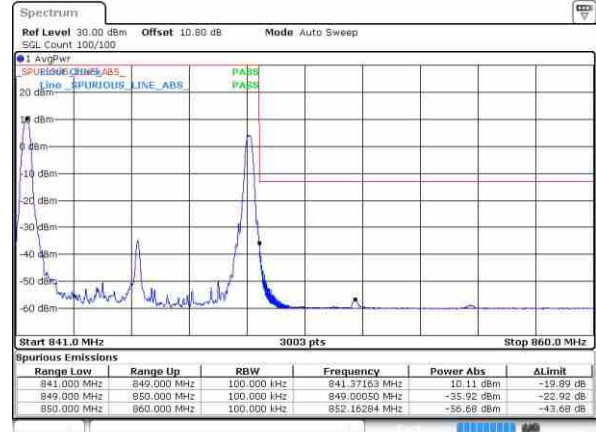
LTE Band 5B / 3MHz+5MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB24



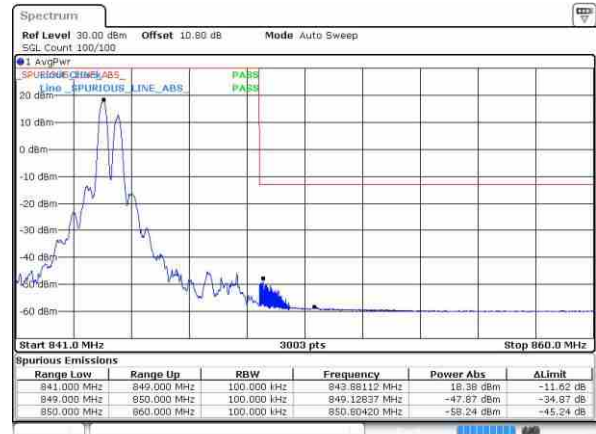
Highest Band Edge / 1RB0 and 1RB24



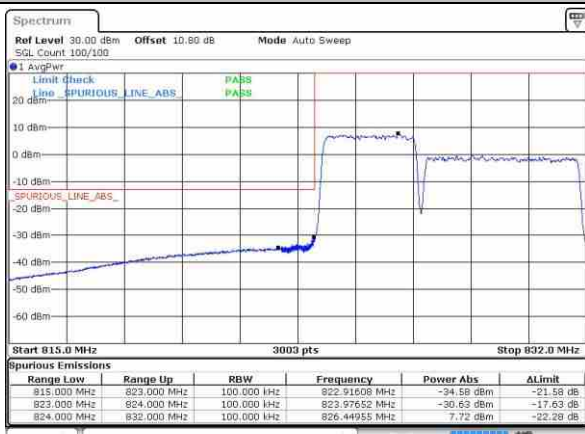
Lowest Band Edge / 1RB14 and 1RB0



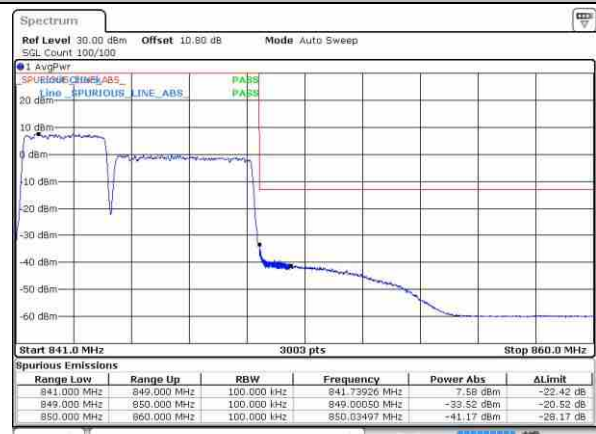
Highest Band Edge / 1RB14 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

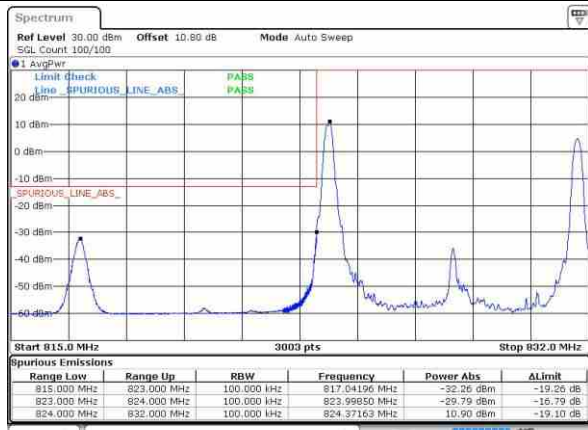




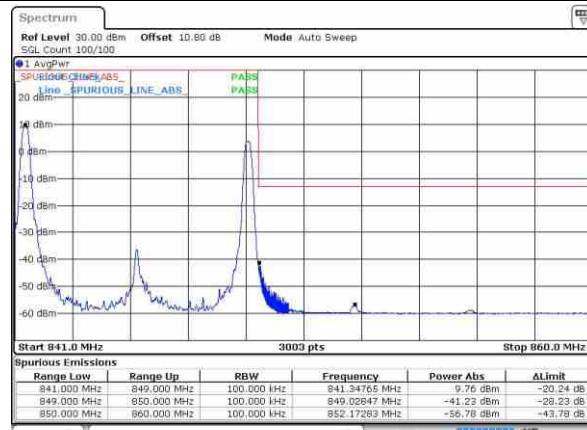
LTE Band 5B / 5MHz+3MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB14



Highest Band Edge / 1RB0 and 1RB14



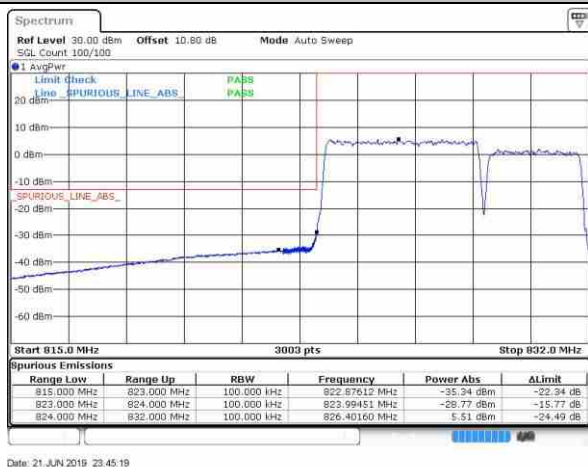
Lowest Band Edge / 1RB24 and 1RB0



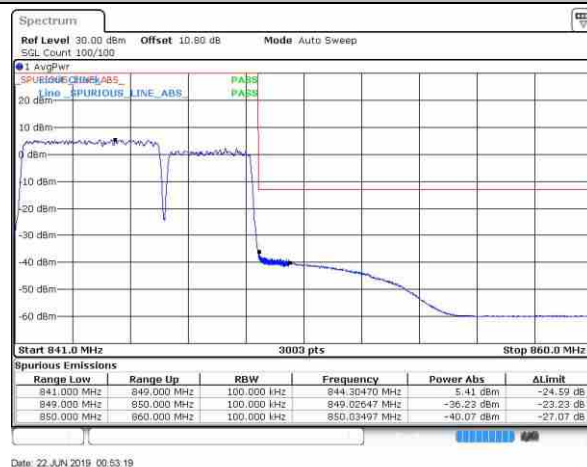
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

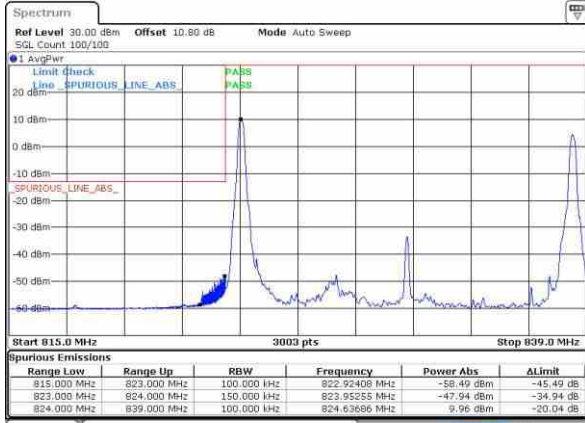




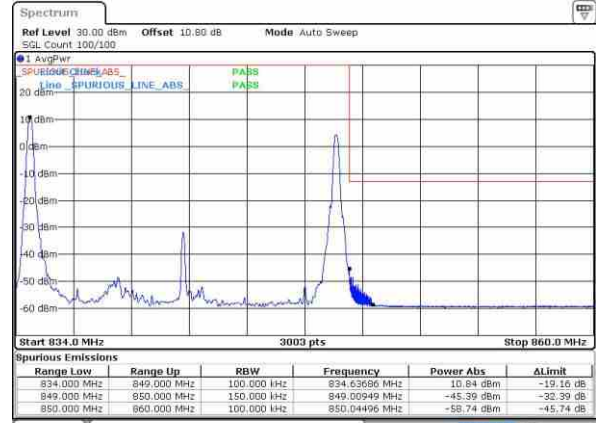
LTE Band 5B / 5MHz+10MHz

QPSK

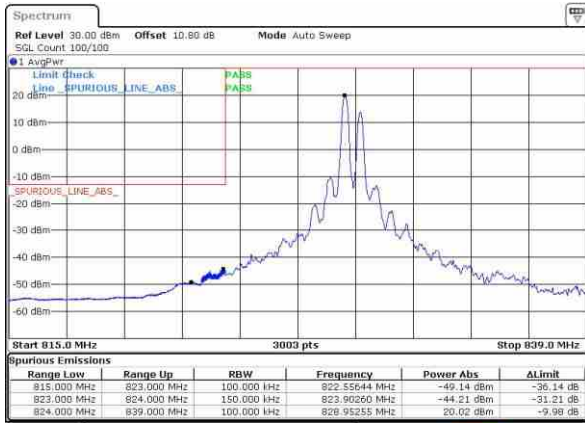
Lowest Band Edge / 1RB0 and 1RB49



Highest Band Edge / 1RB0 and 1RB49



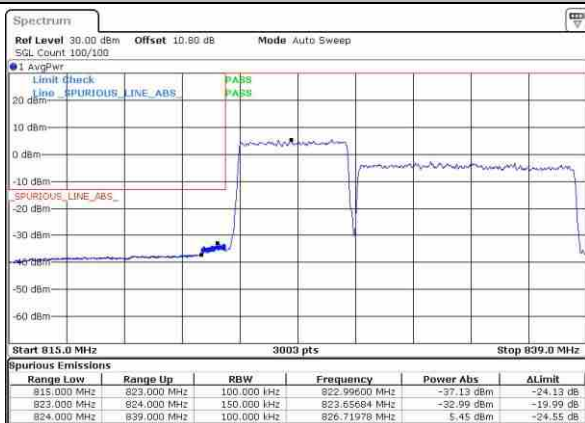
Lowest Band Edge / 1RB24 and 1RB0



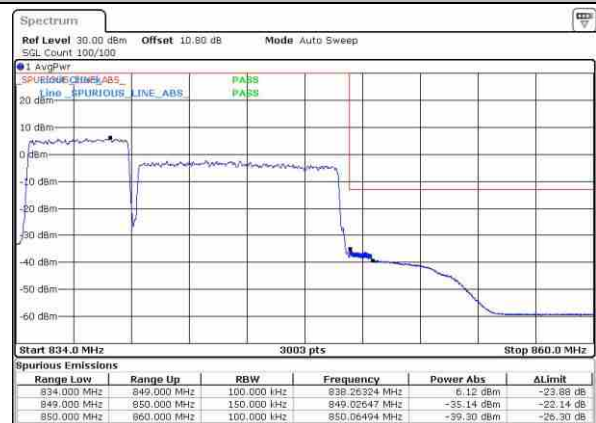
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

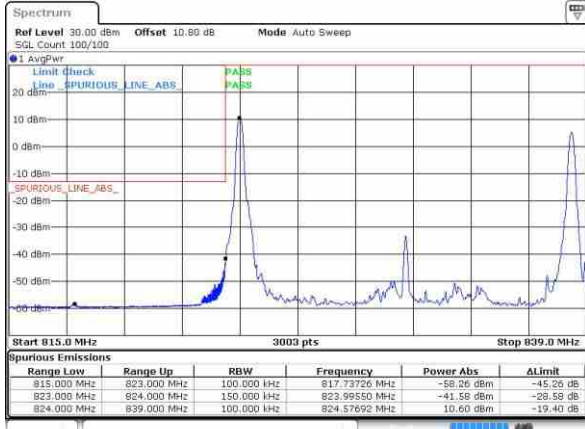




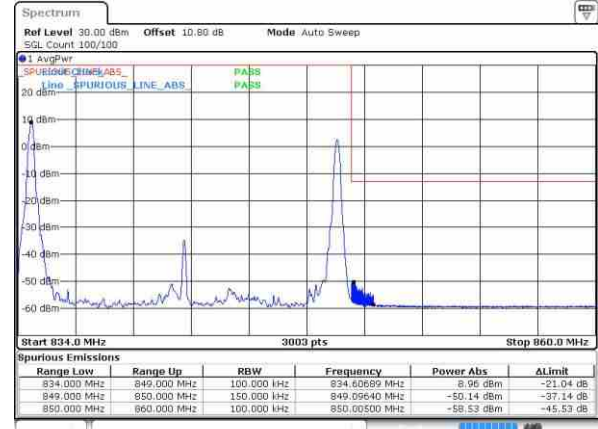
LTE Band 5B / 10MHz+5MHz

QPSK

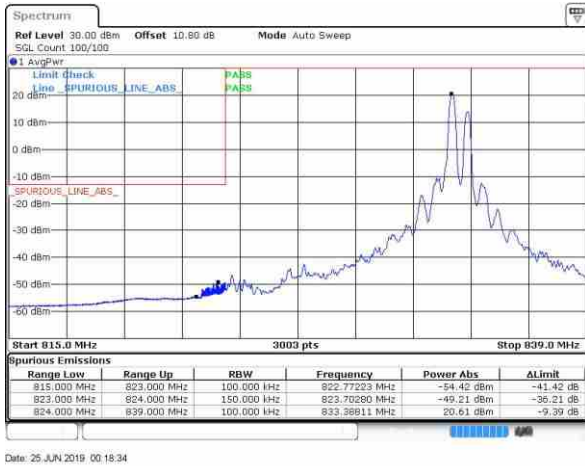
Lowest Band Edge / 1RB0 and 1RB24



Highest Band Edge / 1RB0 and 1RB24



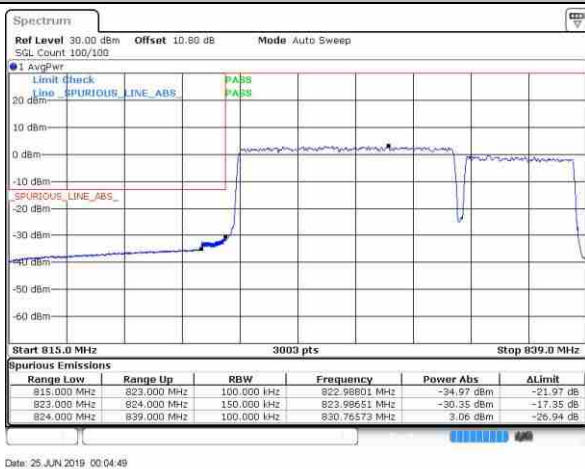
Lowest Band Edge / 1RB49 and 1RB0



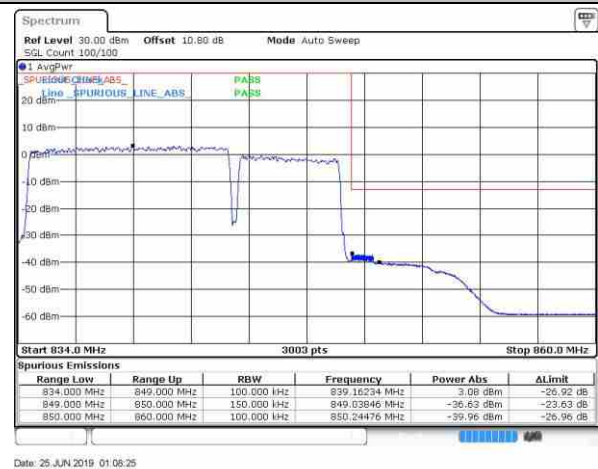
Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

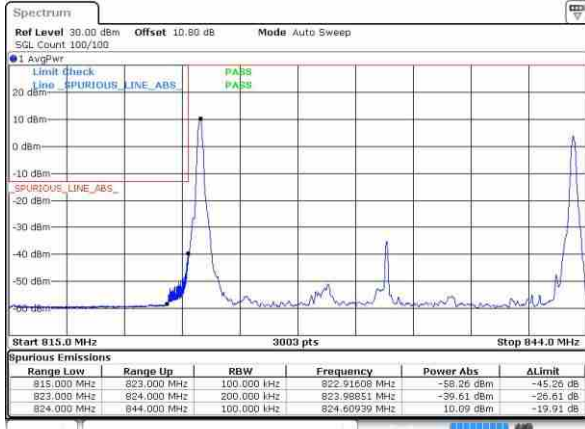




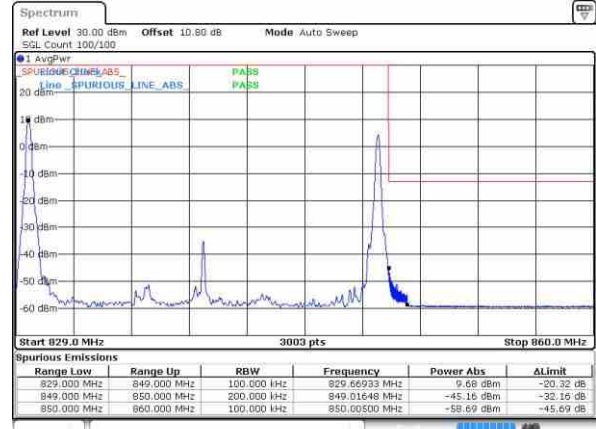
LTE Band 5B / 10MHz+10MHz

QPSK

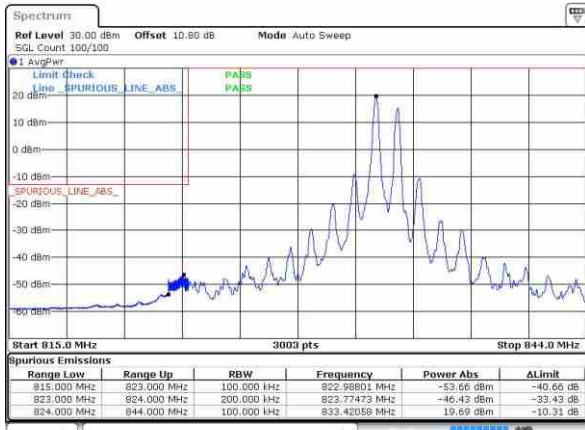
Lowest Band Edge / 1RB0 and 1RB49



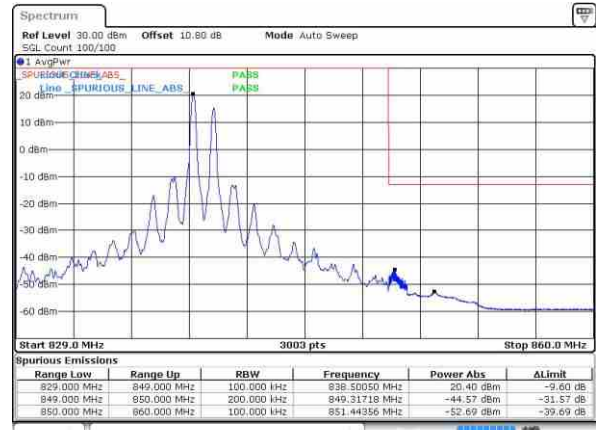
Highest Band Edge / 1RB0 and 1RB49



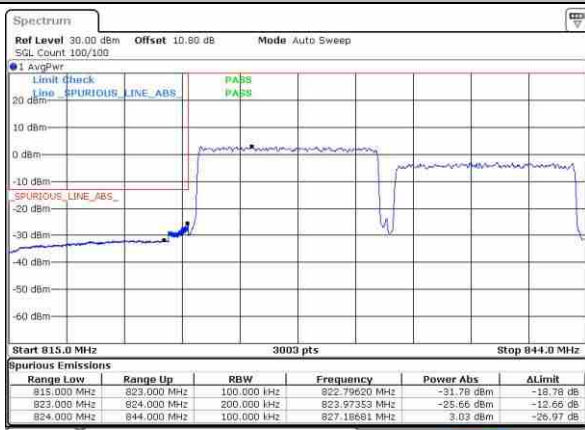
Lowest Band Edge / 1RB49 and 1RB0



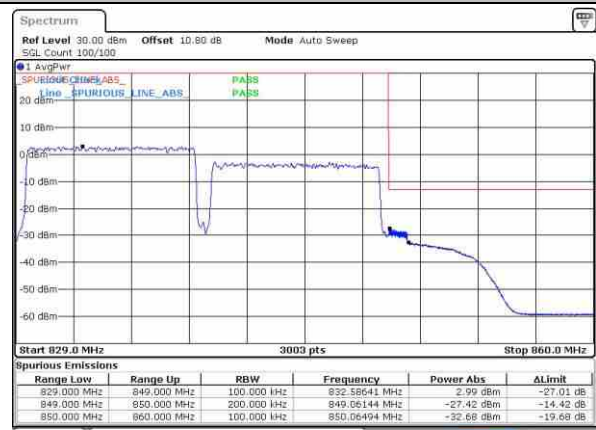
Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

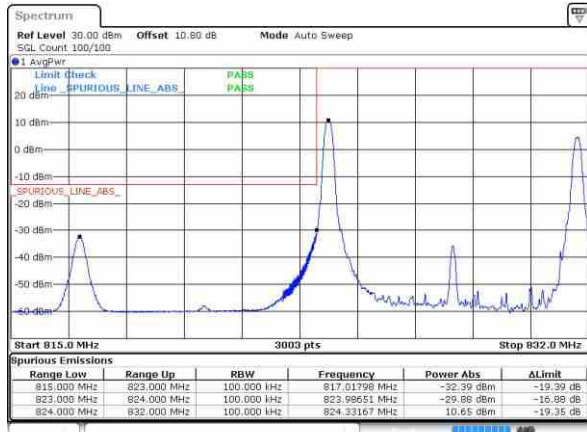




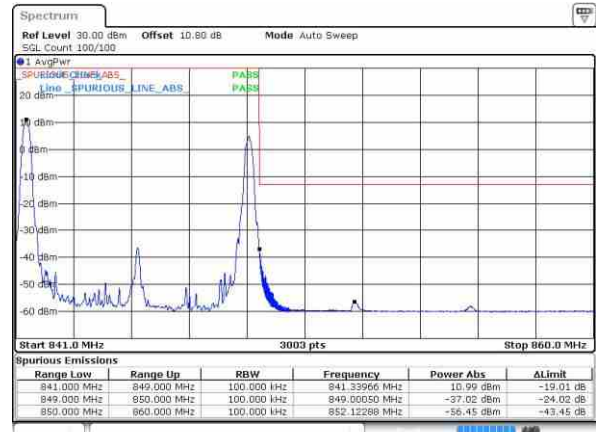
LTE Band 5B / 3MHz+5MHz

16QAM

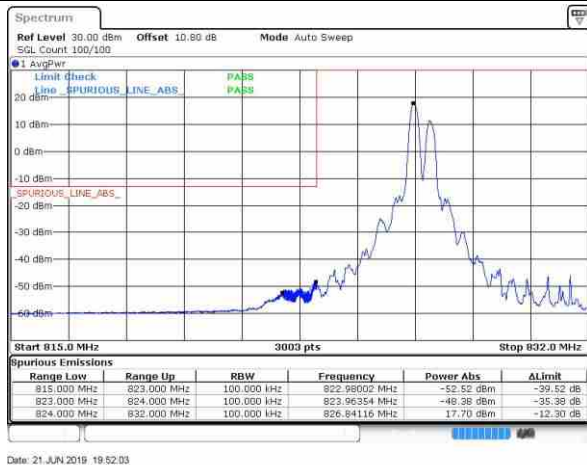
Lowest Band Edge / 1RB0 and 1RB24



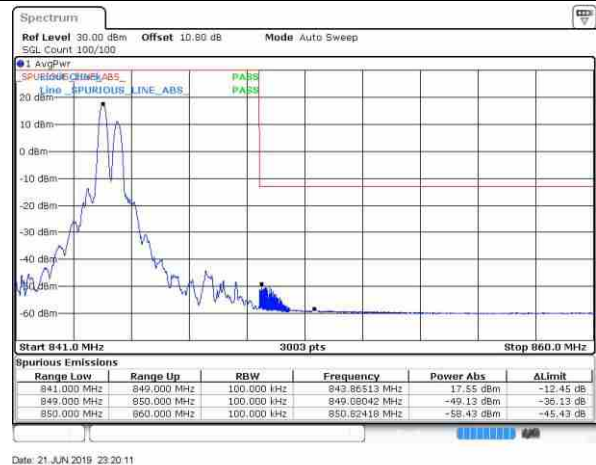
Highest Band Edge / 1RB0 and 1RB24



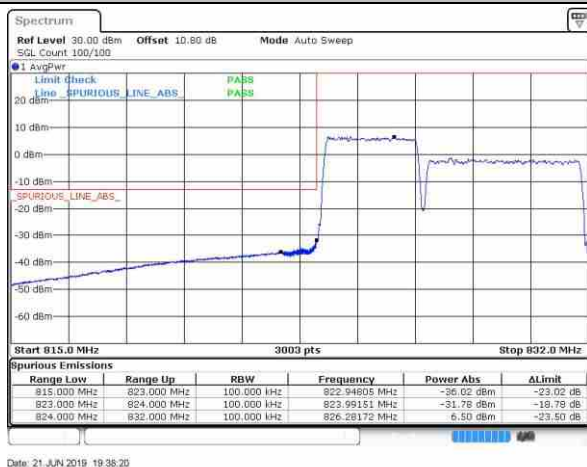
Lowest Band Edge / 1RB14 and 1RB0



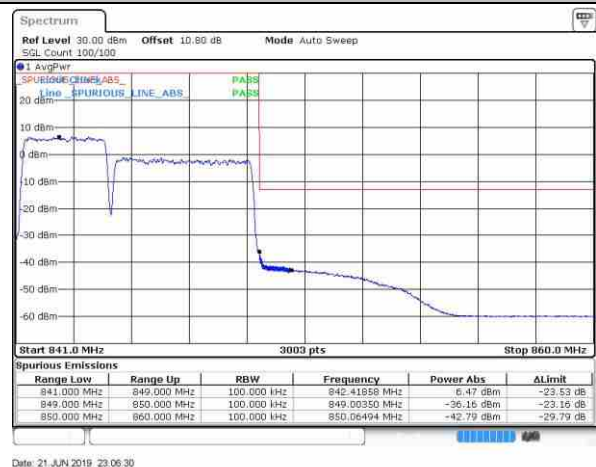
Highest Band Edge / 1RB14 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

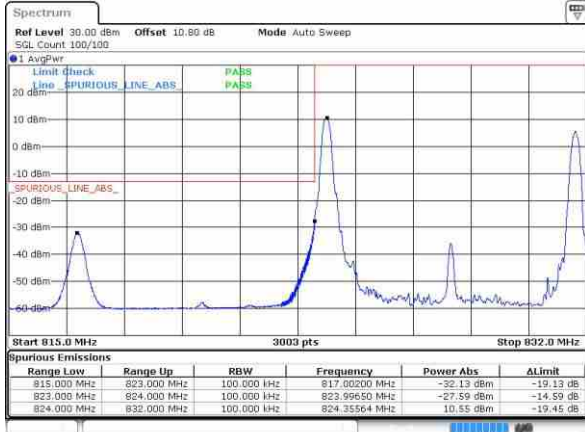




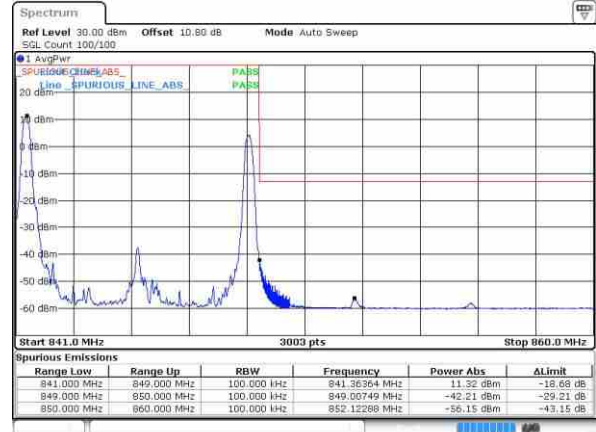
LTE Band 5B / 5MHz+3MHz

16QAM

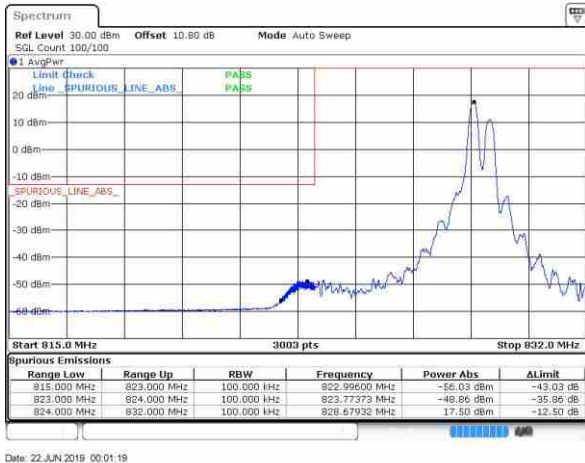
Lowest Band Edge / 1RB0 and 1RB14



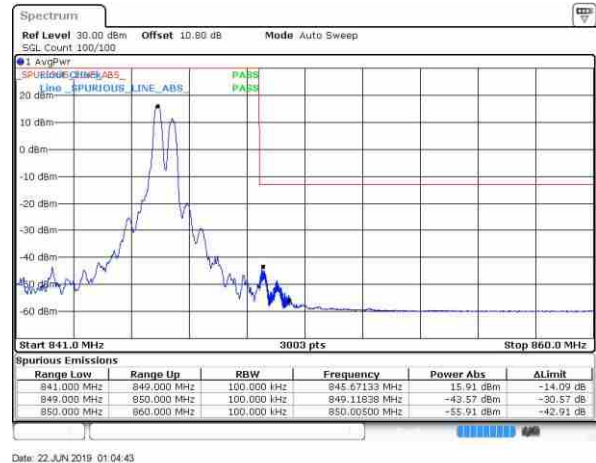
Highest Band Edge / 1RB0 and 1RB14



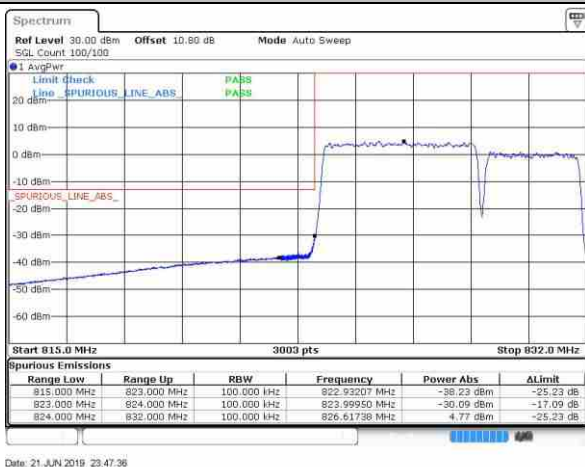
Lowest Band Edge / 1RB24 and 1RB0



Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

