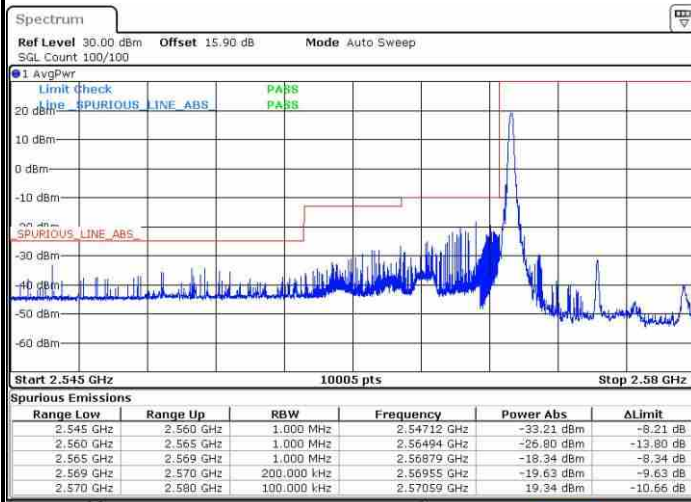


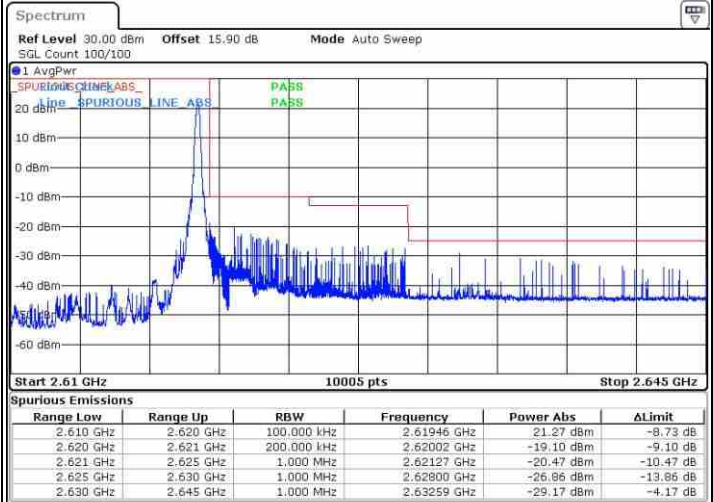


LTE Band 38 / 10MHz / QPSK

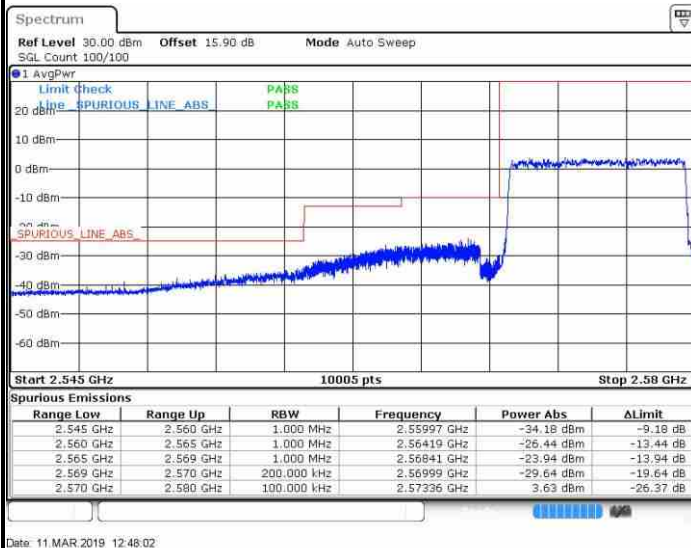
Lowest Band Edge / 1 RB



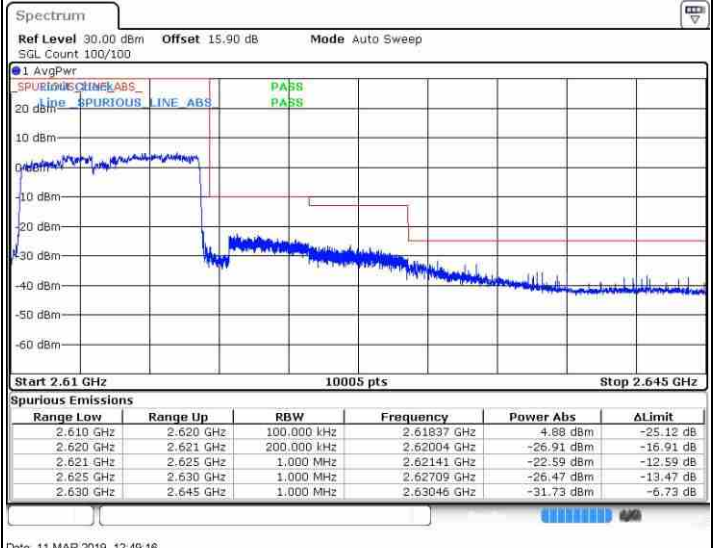
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



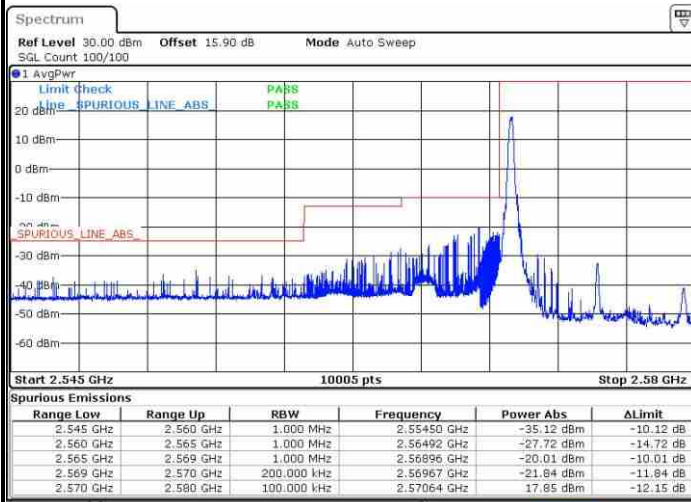
Highest Band Edge / Full RB



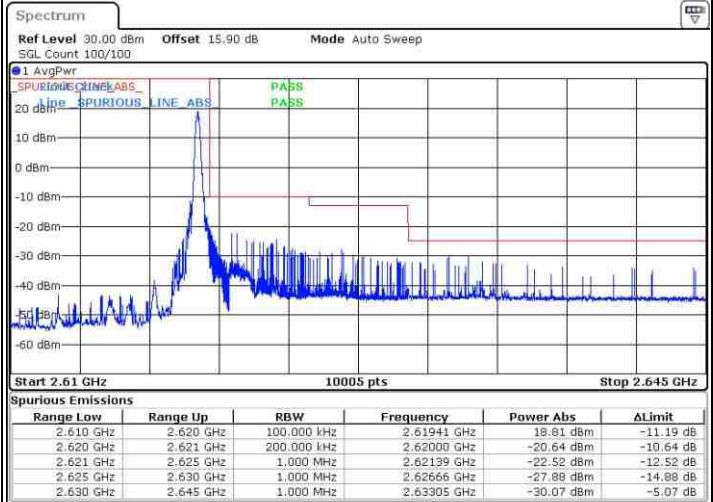


LTE Band 38 / 10MHz / 16QAM

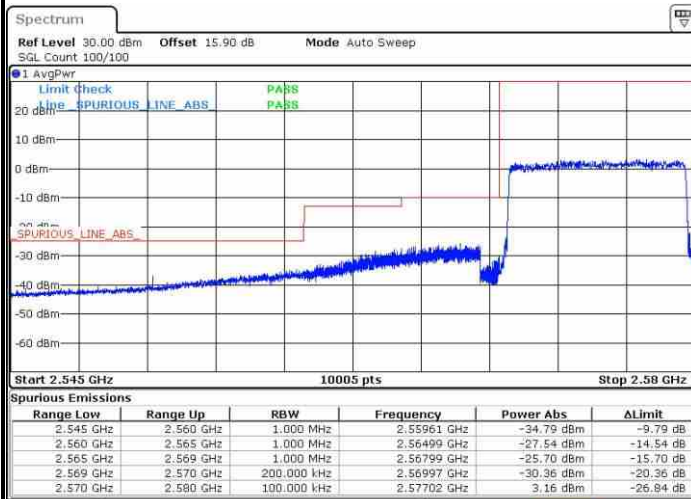
Lowest Band Edge / 1 RB



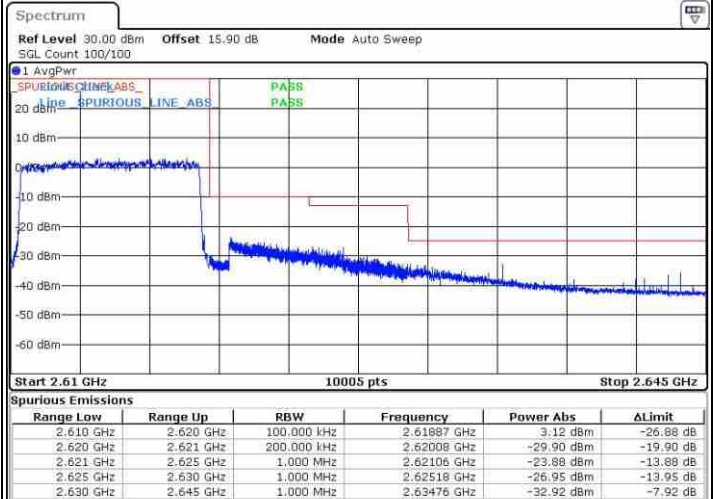
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



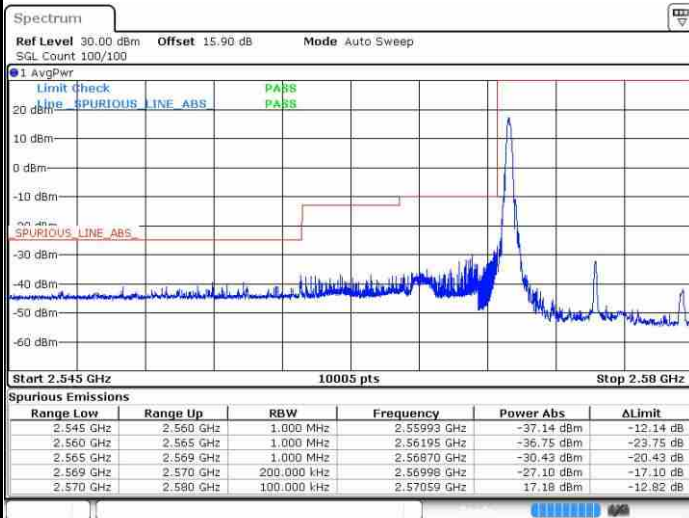
Highest Band Edge / Full RB





LTE Band 38 / 10MHz / 64QAM

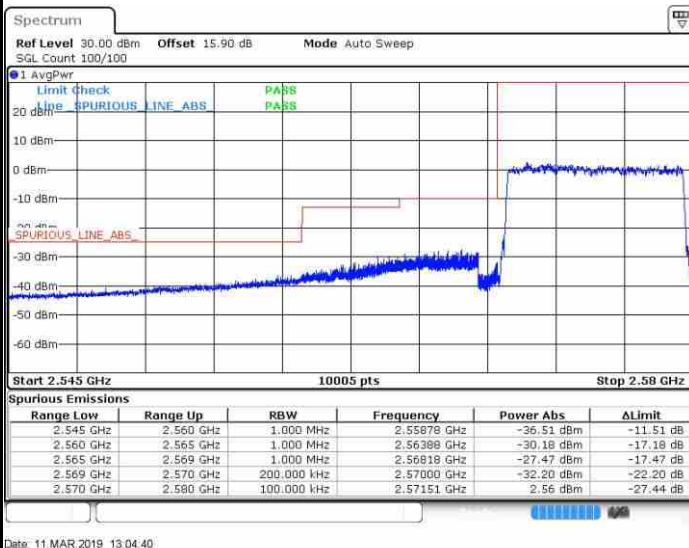
Lowest Band Edge / 1 RB



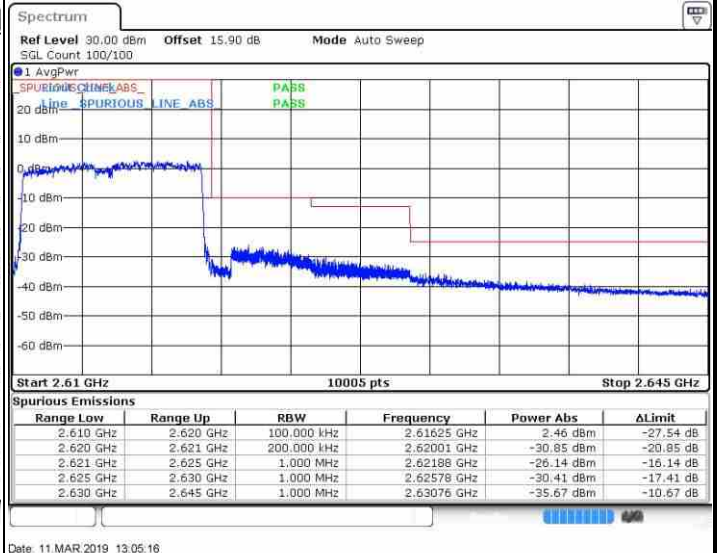
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



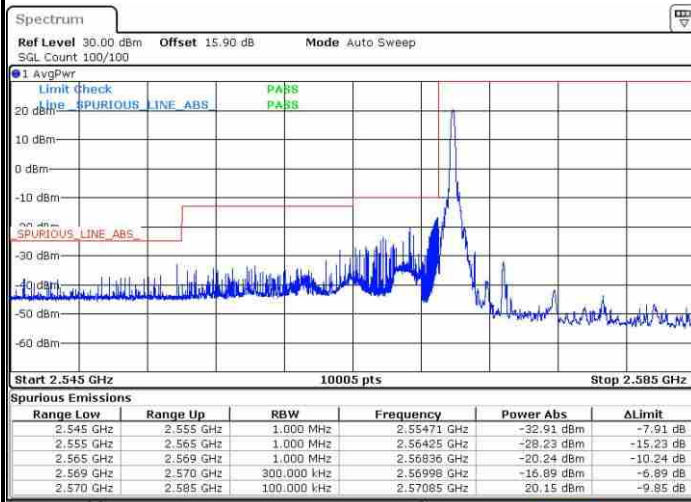
Highest Band Edge / Full RB



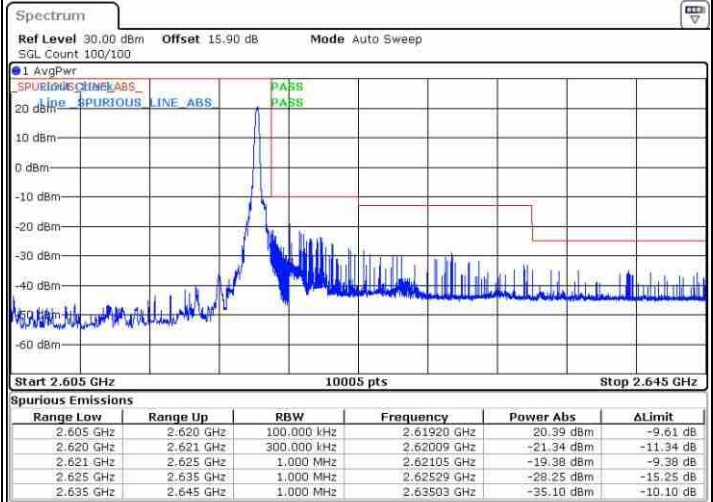


LTE Band 38 / 15MHz / QPSK

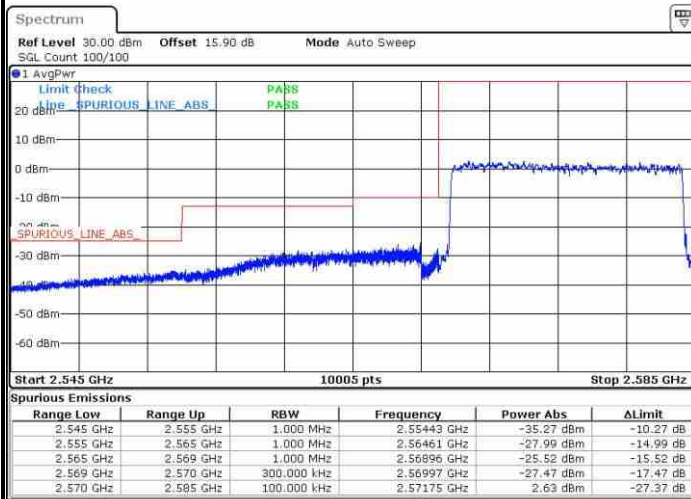
Lowest Band Edge / 1 RB



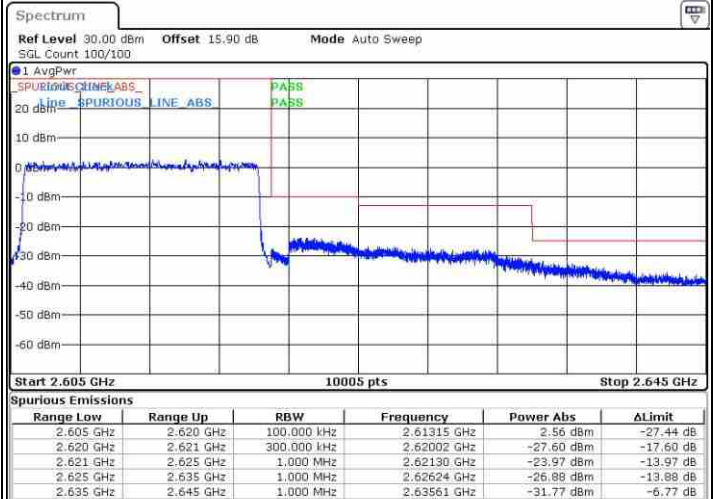
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



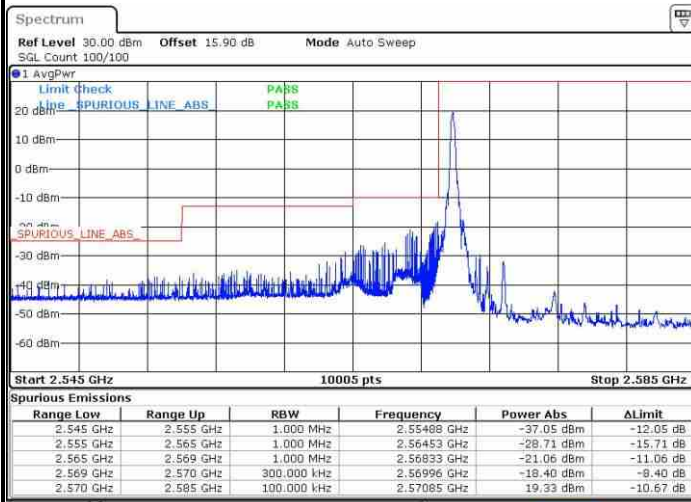
Highest Band Edge / Full RB



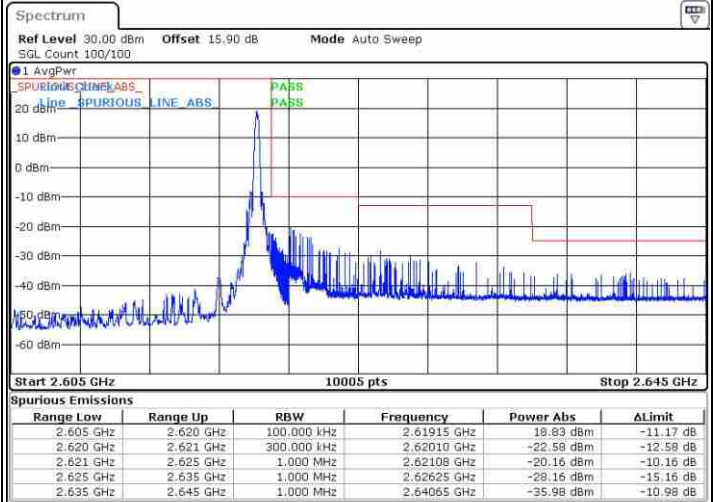


LTE Band 38 / 15MHz / 16QAM

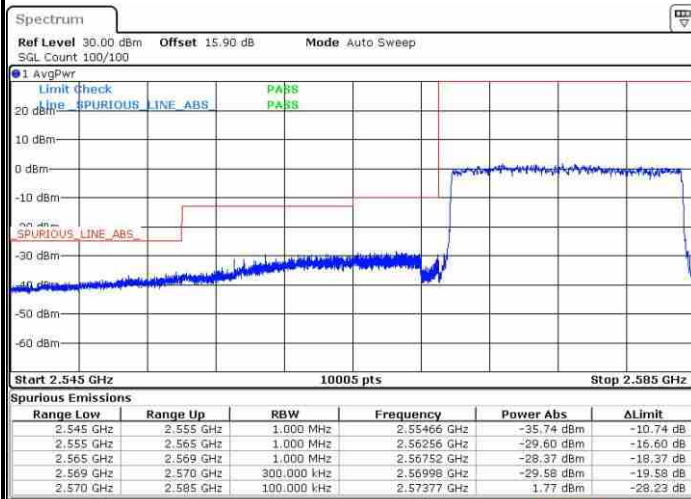
Lowest Band Edge / 1 RB



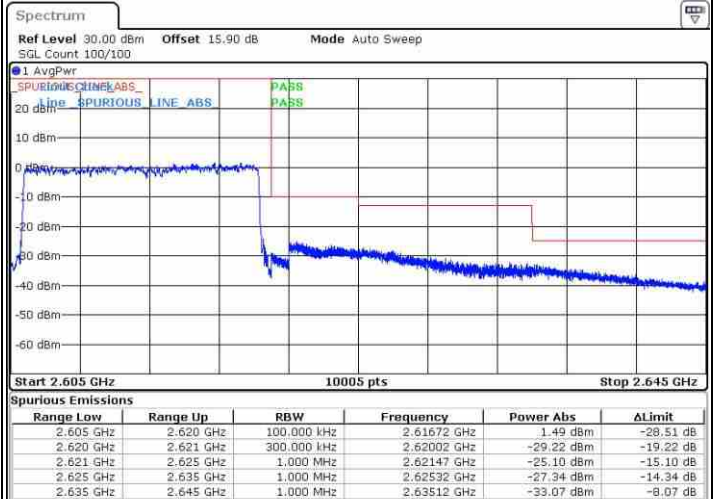
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



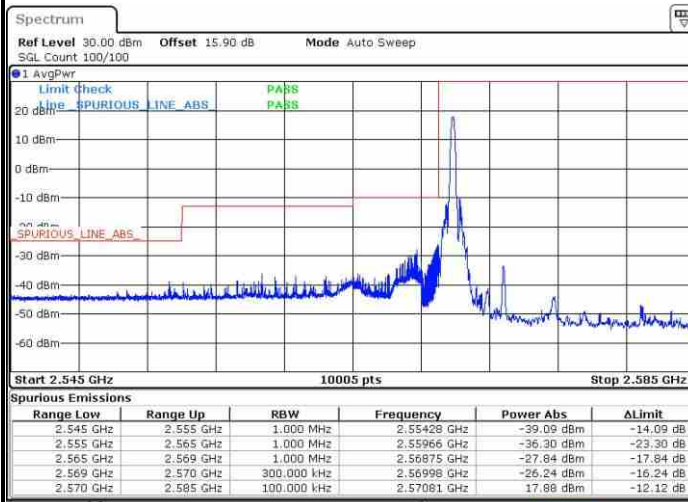
Highest Band Edge / Full RB





LTE Band 38 / 15MHz / 64QAM

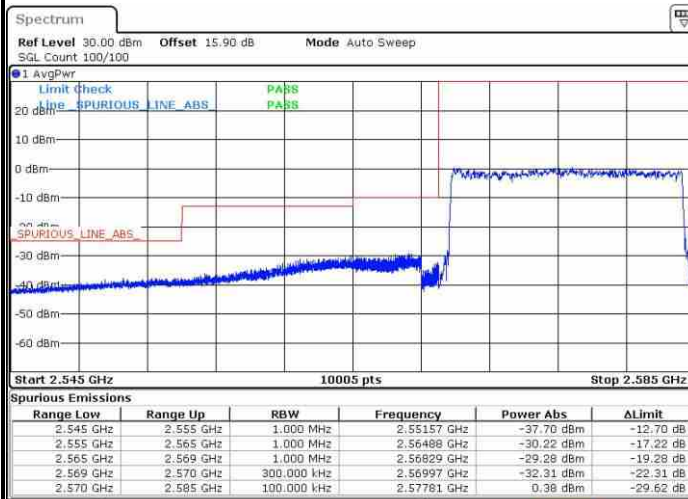
Lowest Band Edge / 1 RB



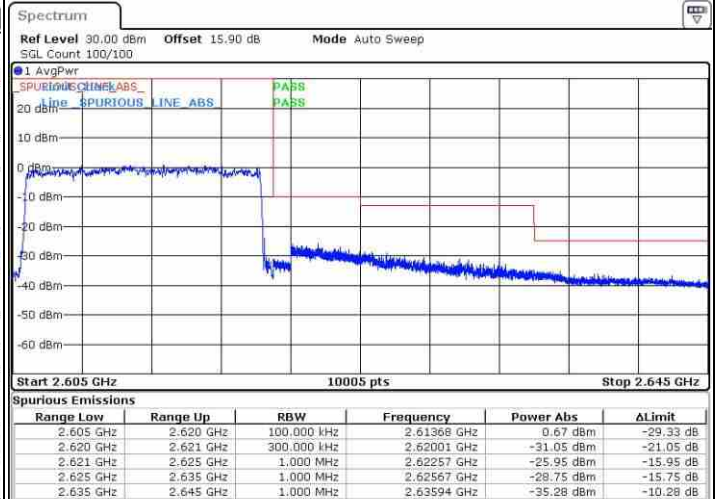
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



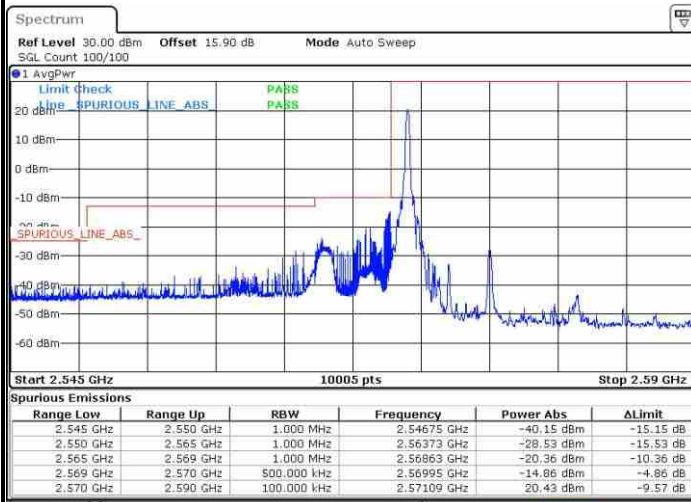
Highest Band Edge / Full RB



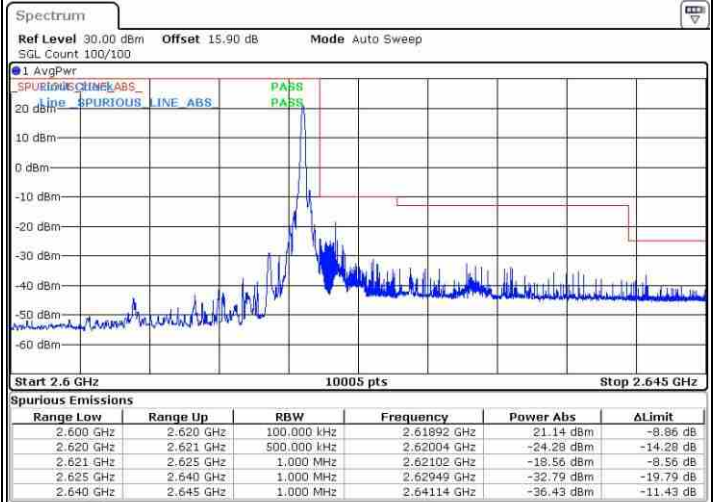


LTE Band 38 / 20MHz / QPSK

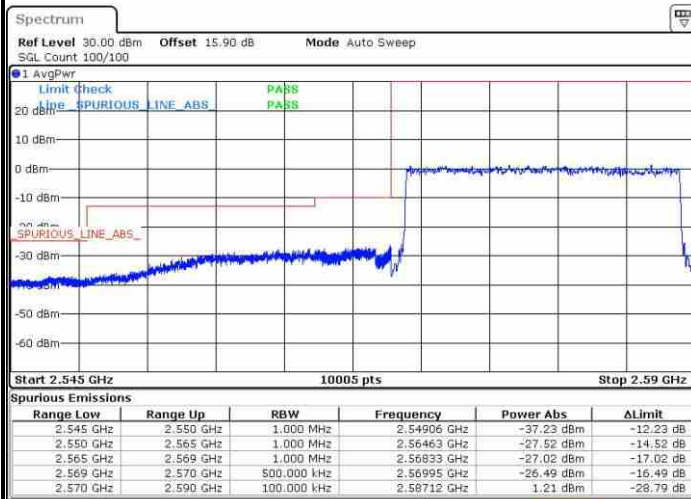
Lowest Band Edge / 1 RB



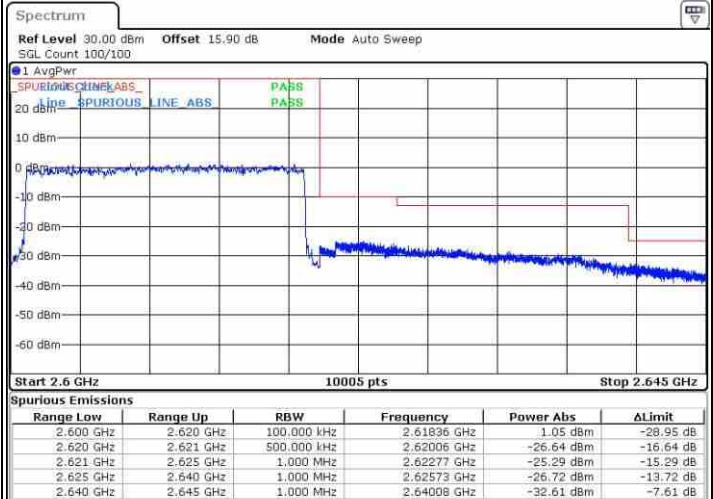
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



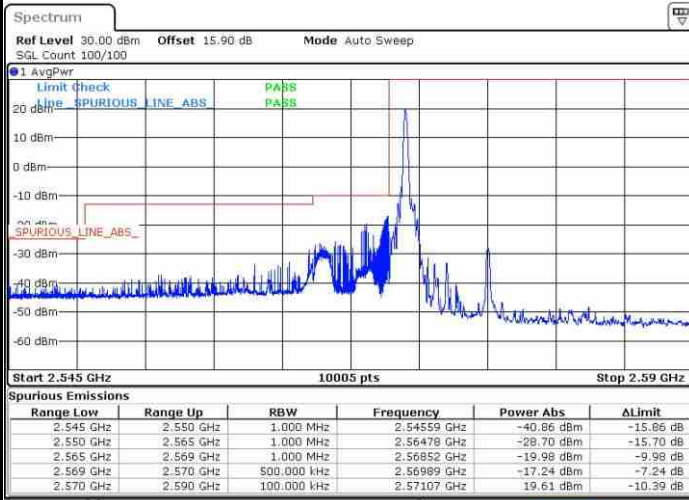
Highest Band Edge / Full RB



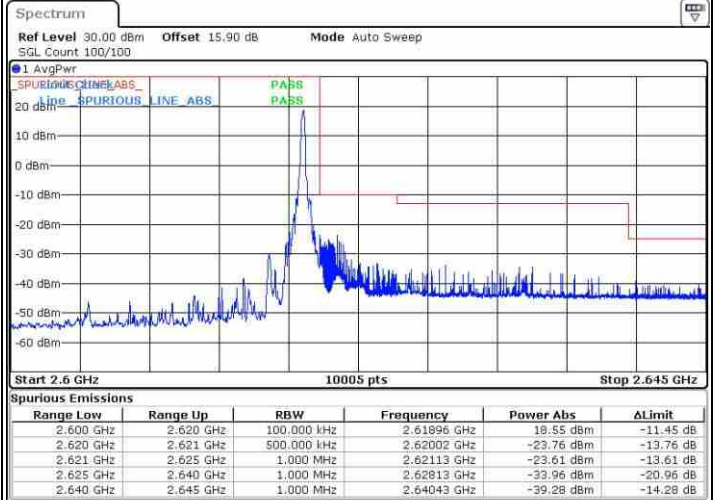


LTE Band 38 / 20MHz / 16QAM

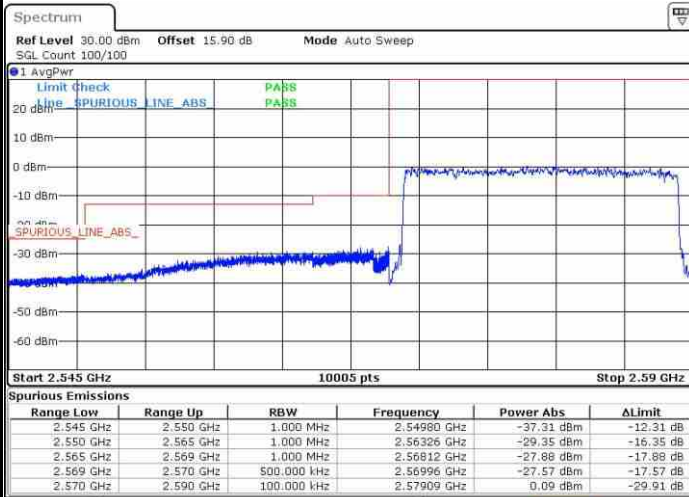
Lowest Band Edge / 1 RB



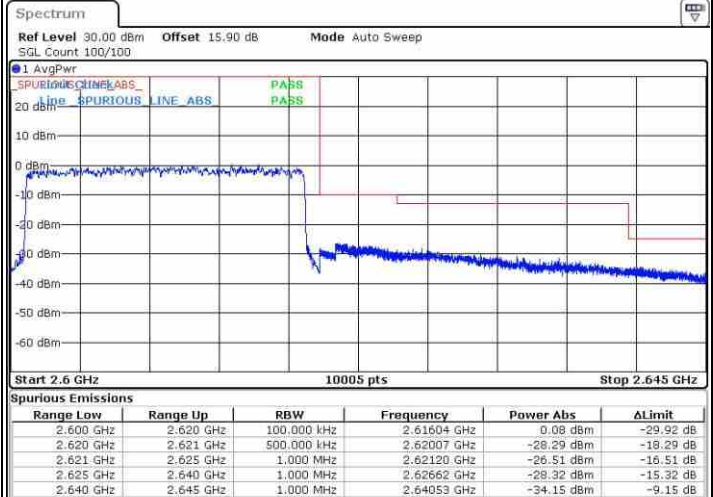
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



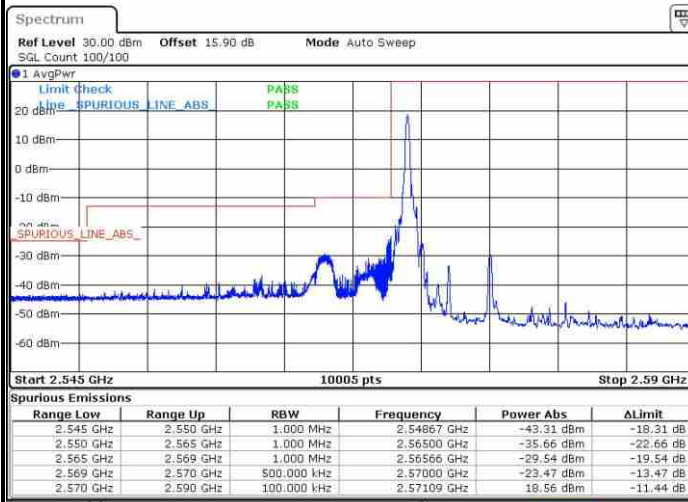
Highest Band Edge / Full RB





LTE Band 38 / 20MHz / 64QAM

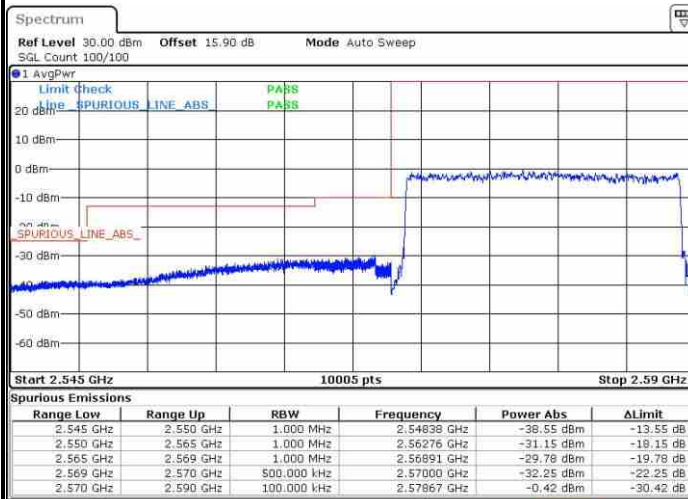
Lowest Band Edge / 1 RB



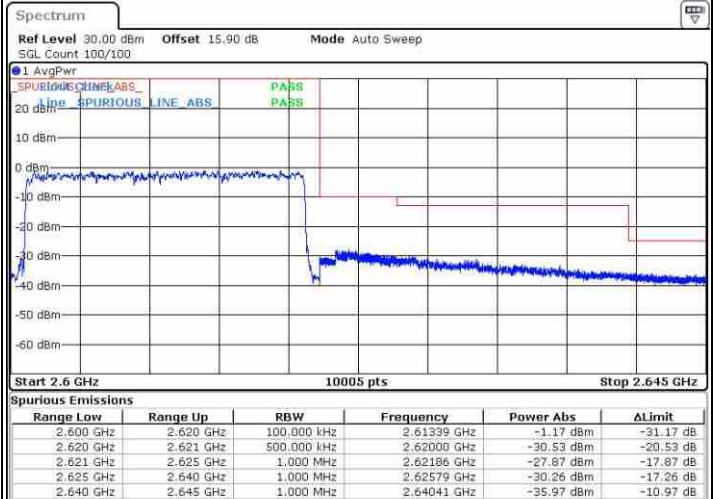
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

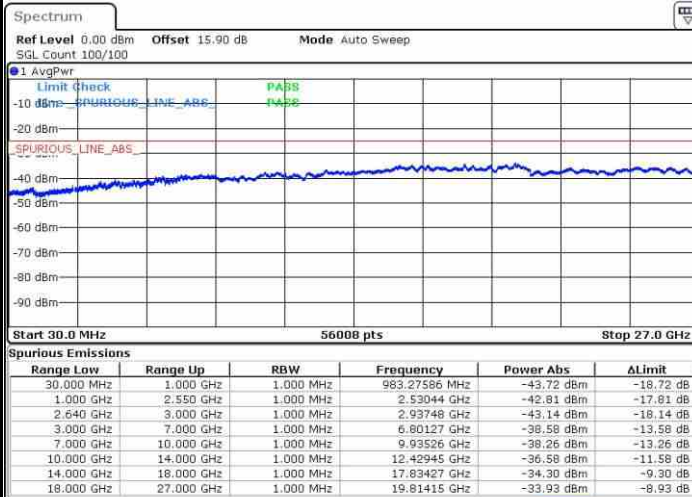




Conducted Spurious Emission

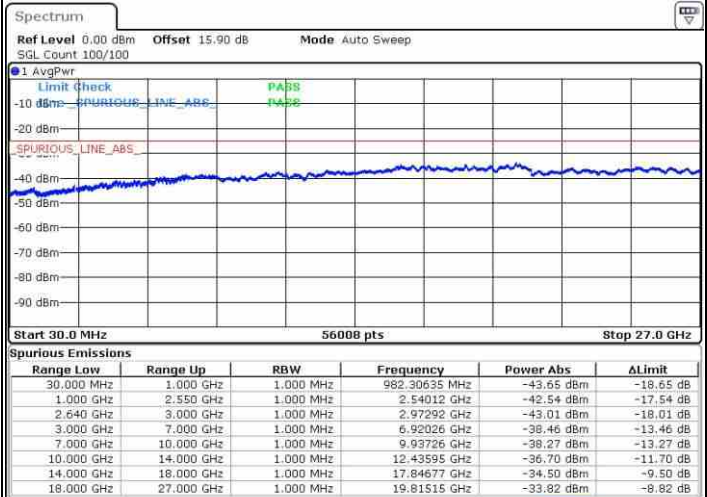
LTE Band 38 / 5MHz

Lowest Channel / QPSK



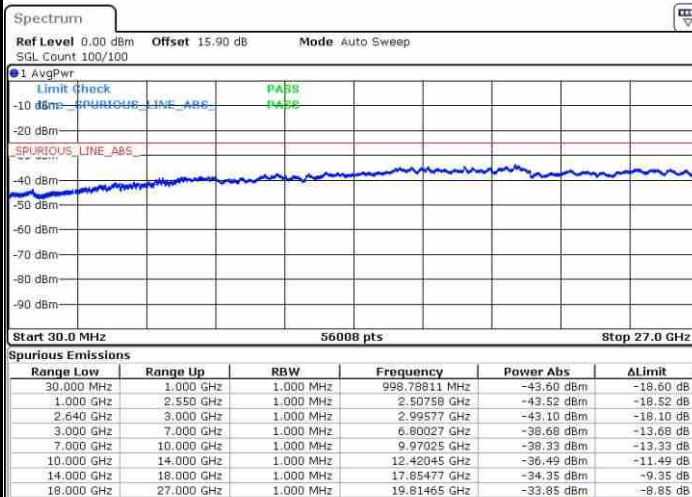
Date: 11.MAR.2019 13:20:49

Lowest Channel / 16QAM



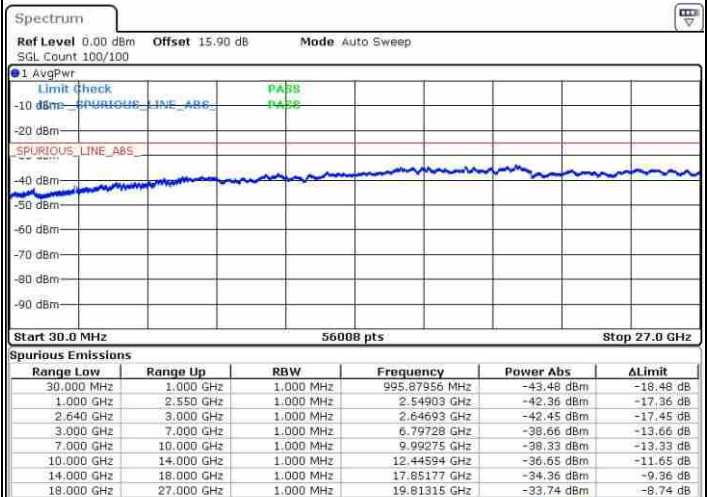
Date: 11.MAR.2019 13:21:35

Middle Channel / QPSK



Date: 11.MAR.2019 13:22:21

Middle Channel / 16QAM

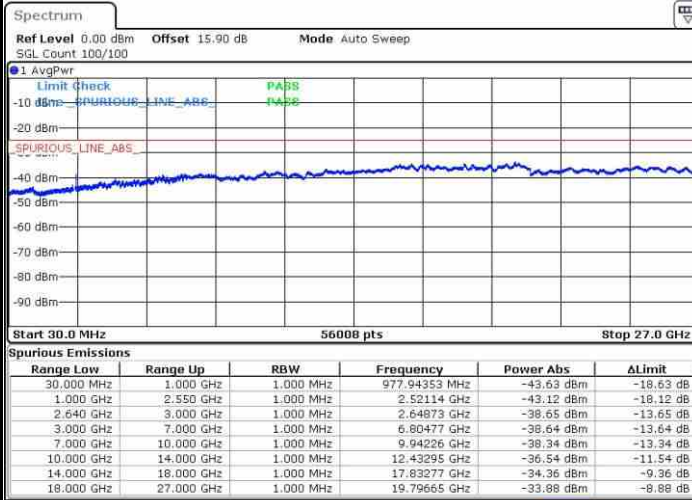


Date: 11.MAR.2019 13:23:07



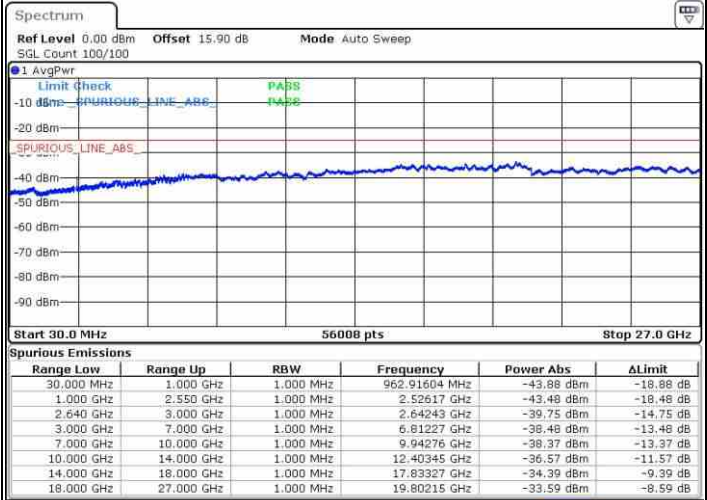
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 11.MAR.2019 13:23:52

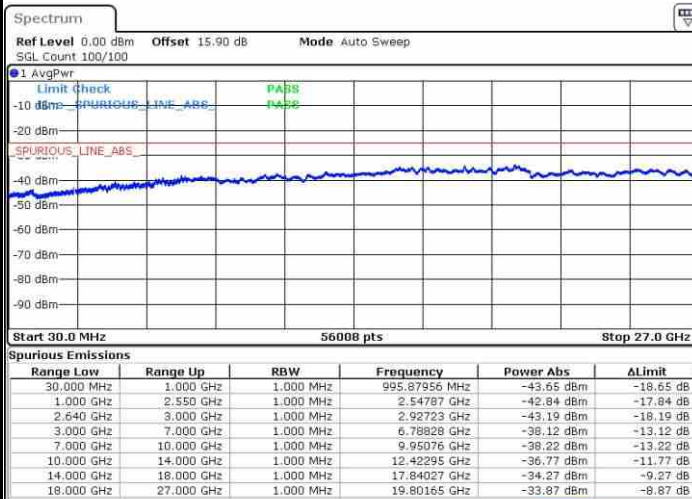
Highest Channel / 16QAM



Date: 11.MAR.2019 13:24:38

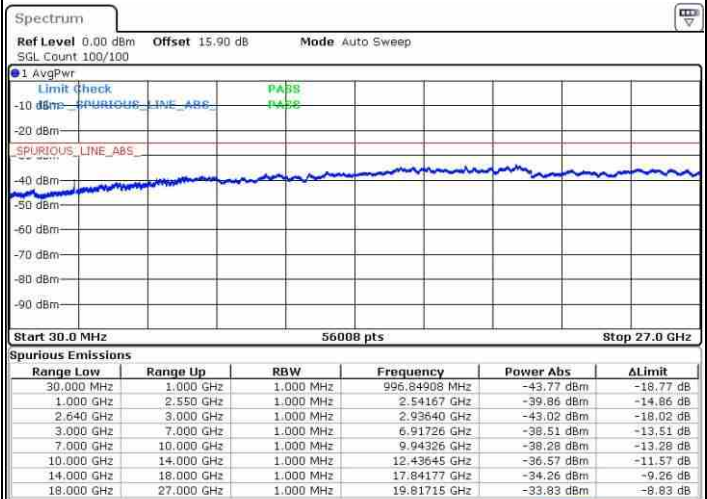
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 11.MAR.2019 13:25:25

Lowest Channel / 16QAM

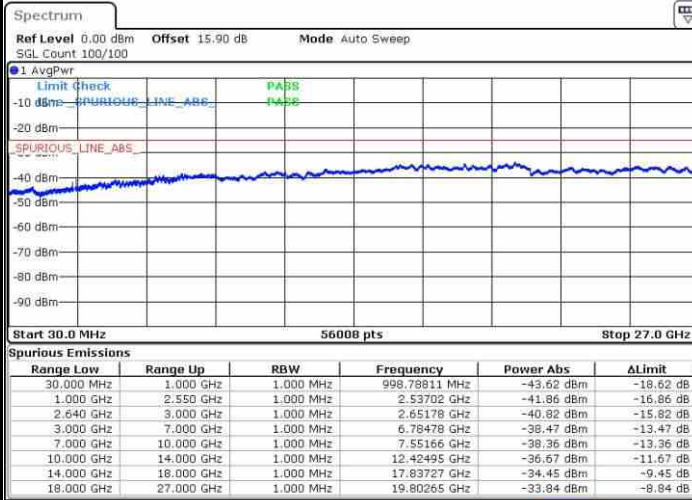


Date: 11.MAR.2019 13:26:11



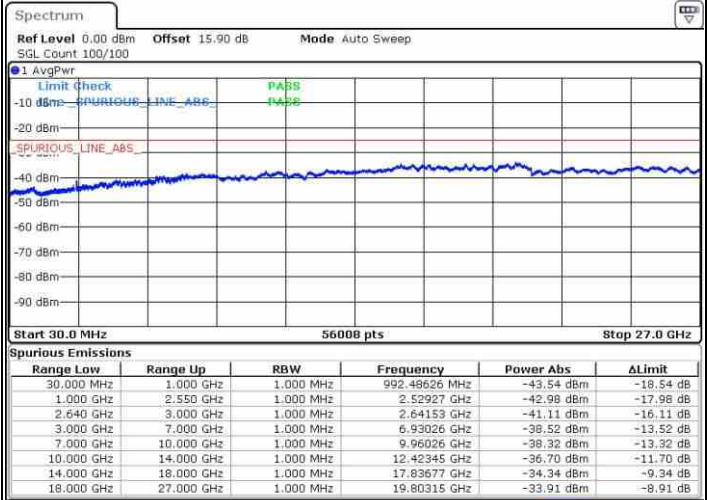
LTE Band 38 / 10MHz

Middle Channel / QPSK



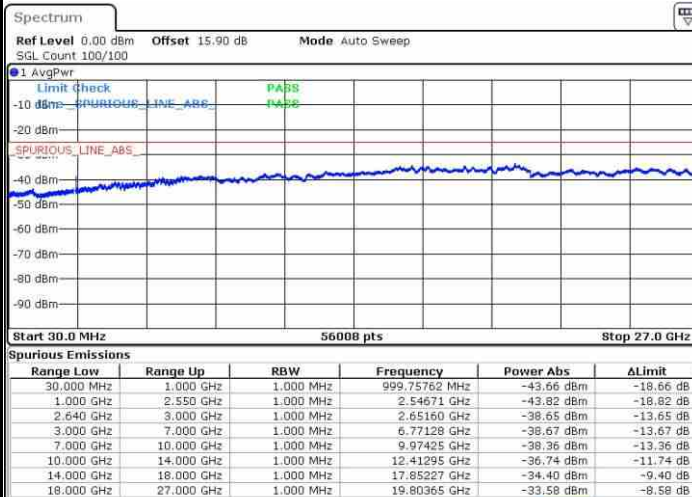
Date: 11.MAR.2019 13:26:57

Middle Channel / 16QAM



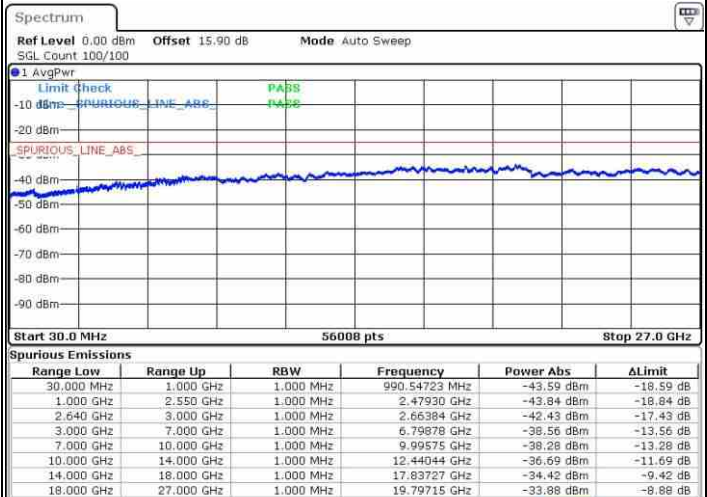
Date: 11.MAR.2019 13:27:43

Highest Channel / QPSK



Date: 11.MAR.2019 13:28:28

Highest Channel / 16QAM

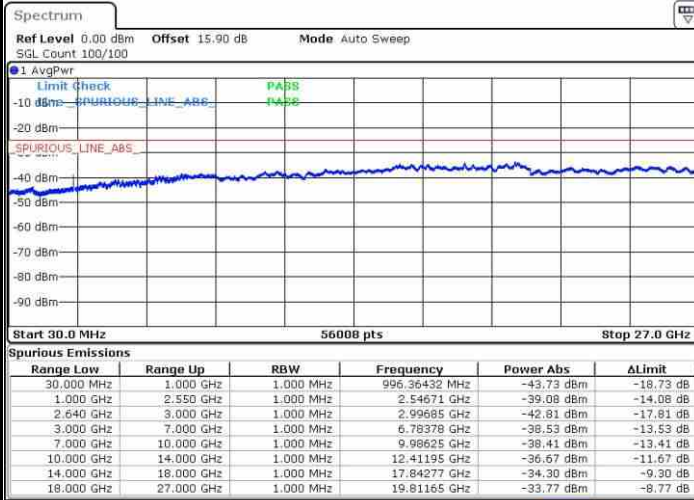


Date: 11.MAR.2019 13:29:15



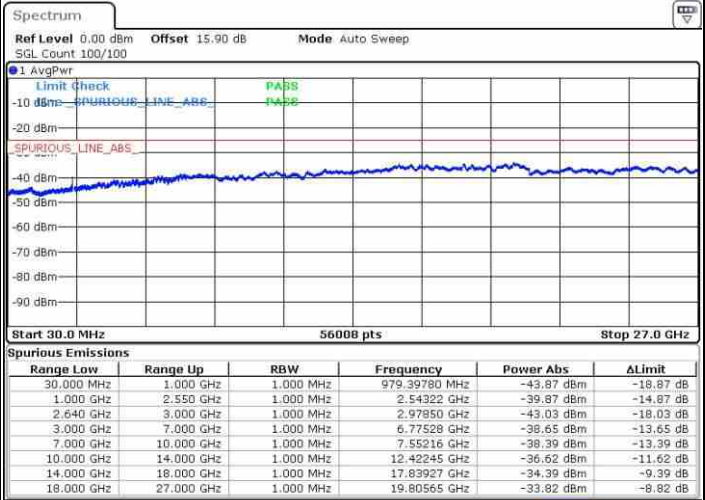
LTE Band 38 / 15MHz

Lowest Channel / QPSK



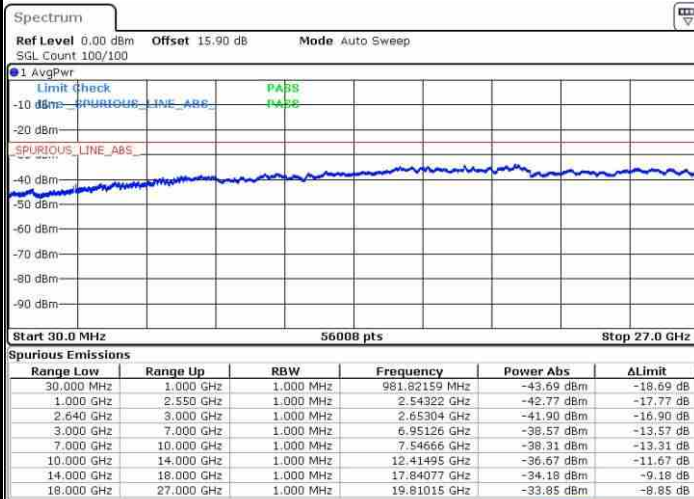
Date: 11.MAR.2019 13:30:01

Lowest Channel / 16QAM



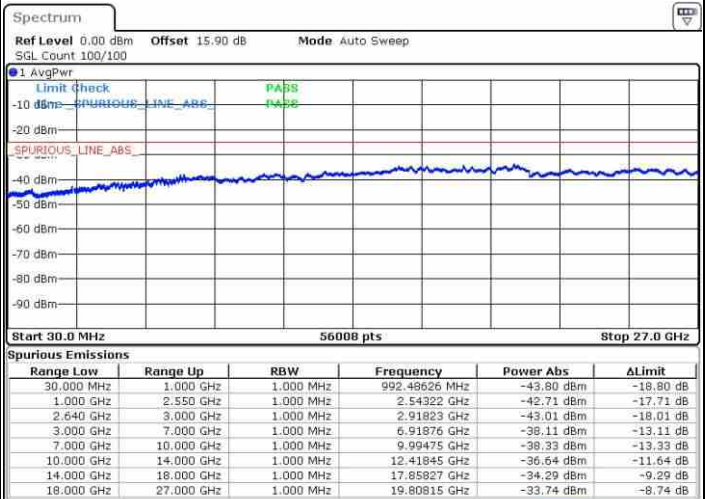
Date: 11.MAR.2019 13:30:48

Middle Channel / QPSK



Date: 11.MAR.2019 13:31:33

Middle Channel / 16QAM

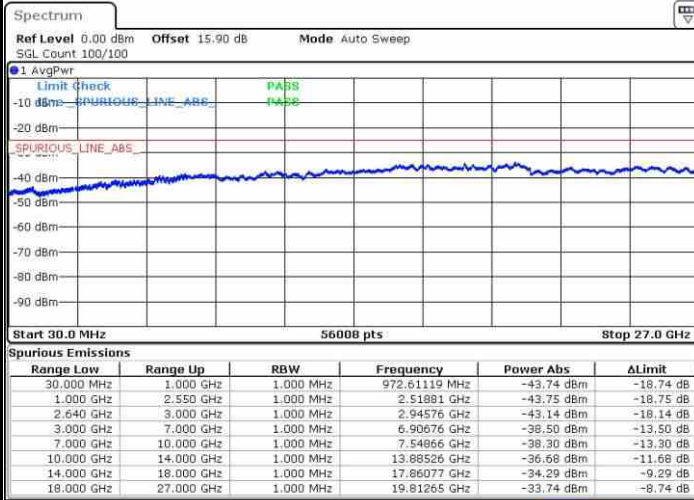


Date: 11.MAR.2019 13:32:19



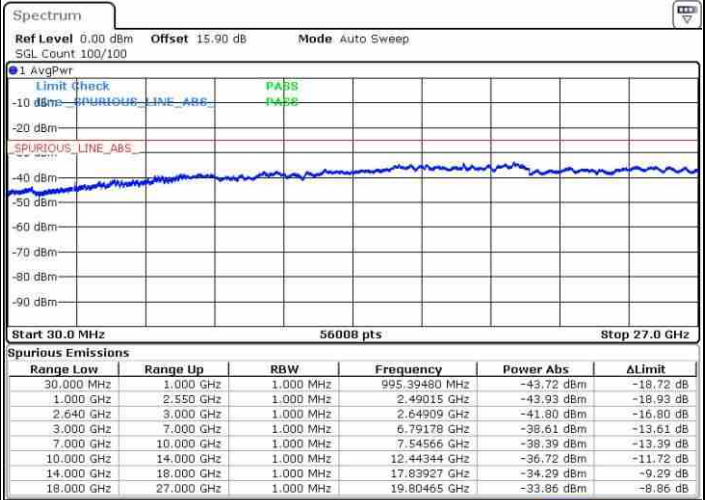
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 11.MAR.2019 13:33:05

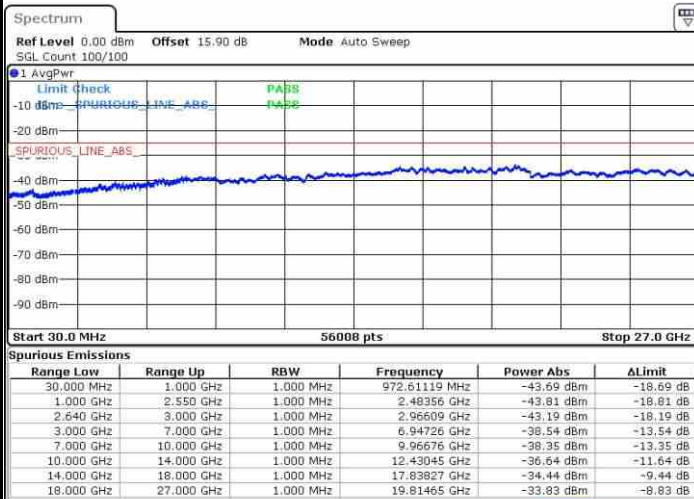
Highest Channel / 16QAM



Date: 11.MAR.2019 13:33:51

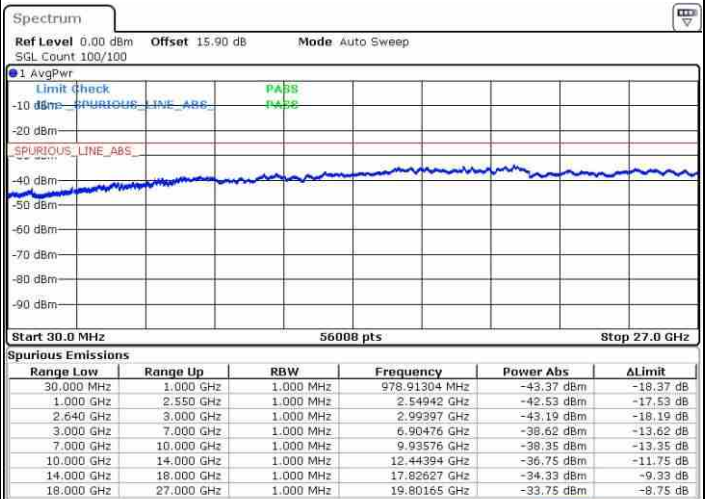
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 11.MAR.2019 13:34:38

Lowest Channel / 16QAM

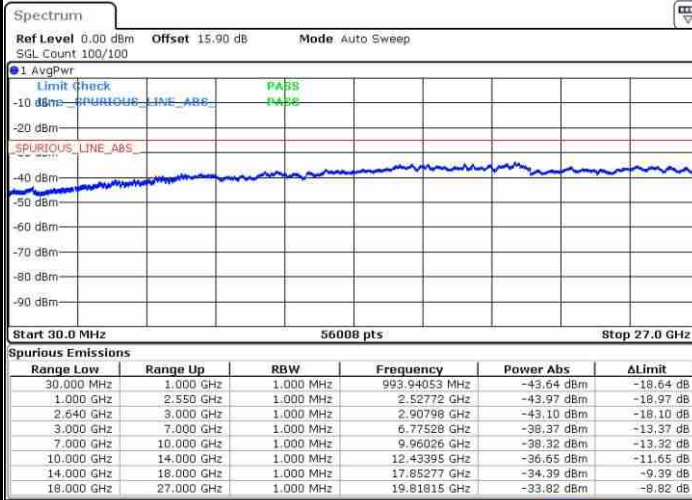


Date: 11.MAR.2019 13:35:24



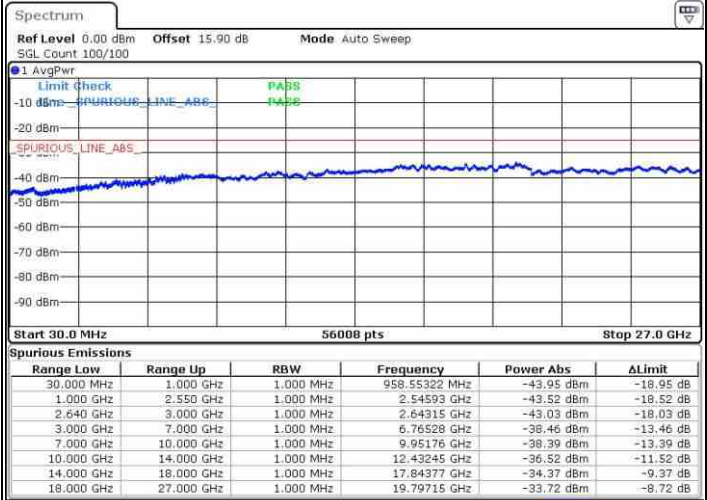
LTE Band 38 / 20MHz

Middle Channel / QPSK



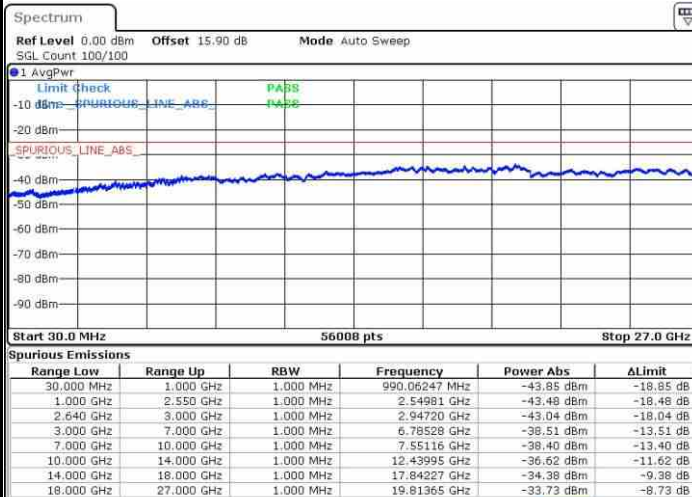
Date: 11.MAR.2019 13:36:10

Middle Channel / 16QAM



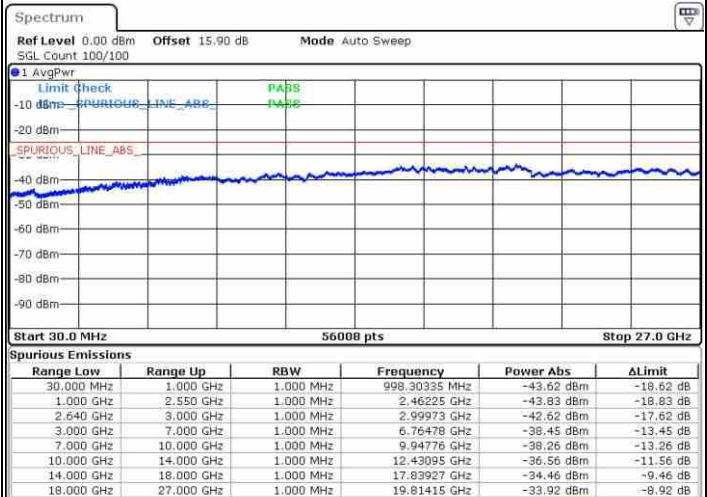
Date: 11.MAR.2019 13:36:55

Highest Channel / QPSK



Date: 11.MAR.2019 13:37:41

Highest Channel / 16QAM

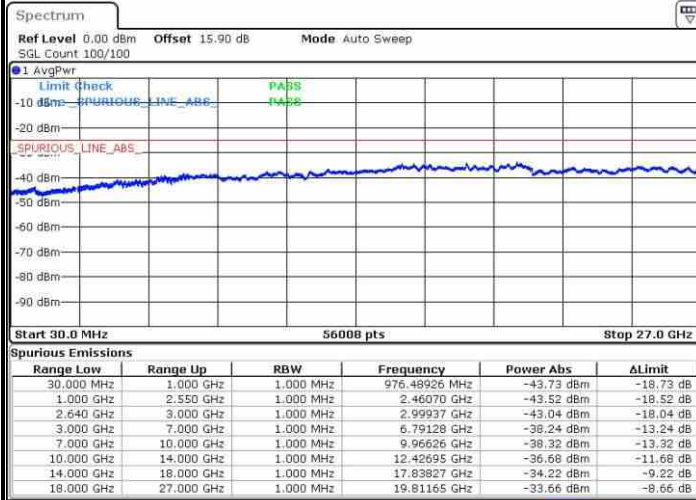


Date: 11.MAR.2019 13:38:27



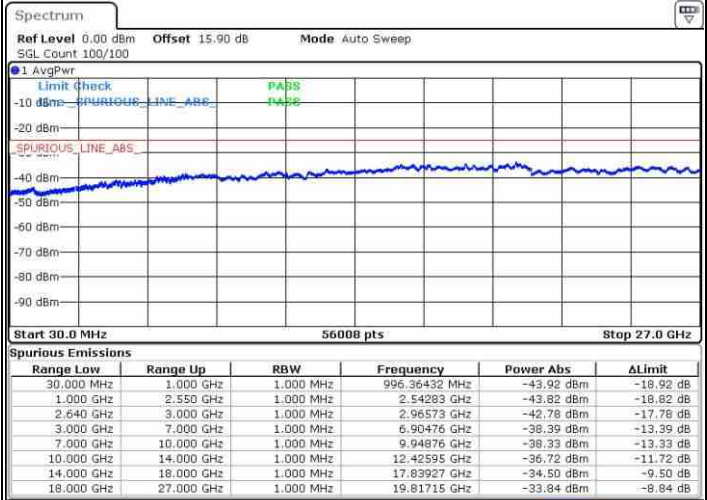
LTE Band 38 / 5MHz

Lowest Channel / 64QAM



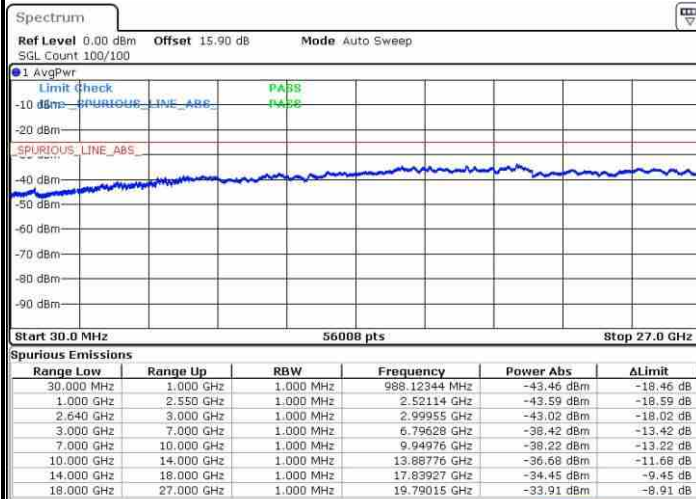
Date: 11.MAR.2019 13:11:36

Middle Channel / 64QAM



Date: 11.MAR.2019 13:12:21

Highest Channel / 64QAM

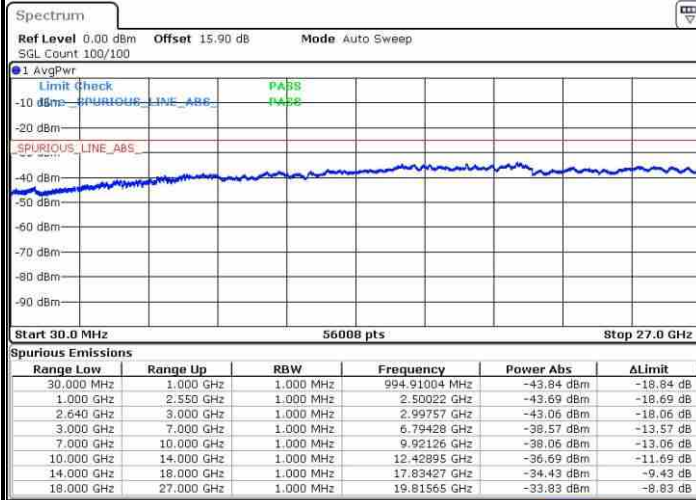


Date: 11.MAR.2019 13:13:07



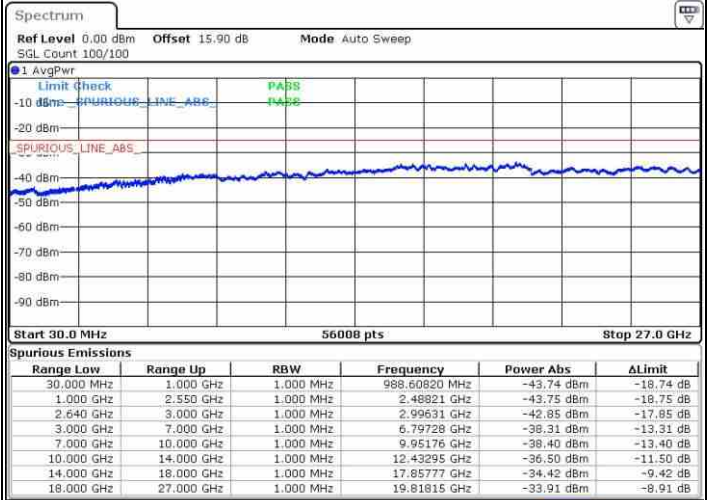
LTE Band 38 / 10MHz

Lowest Channel / 64QAM



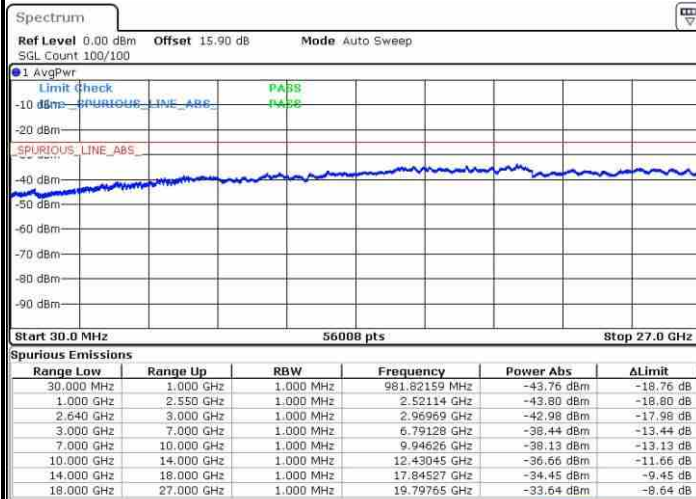
Date: 11.MAR.2019 13:13:54

Middle Channel / 64QAM



Date: 11.MAR.2019 13:14:39

Highest Channel / 64QAM

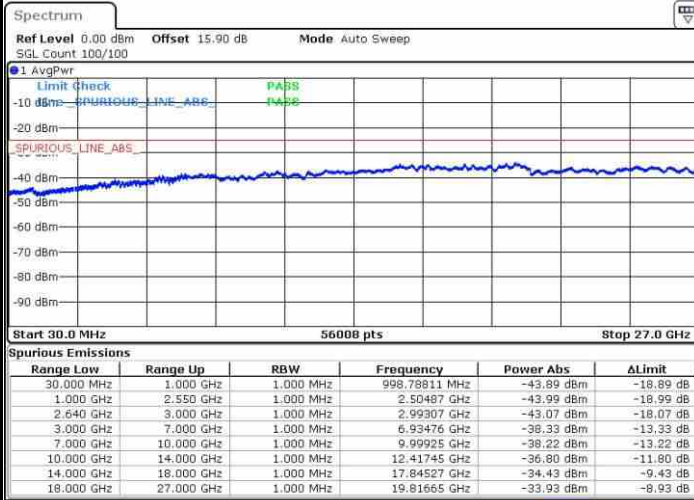


Date: 11.MAR.2019 13:15:25



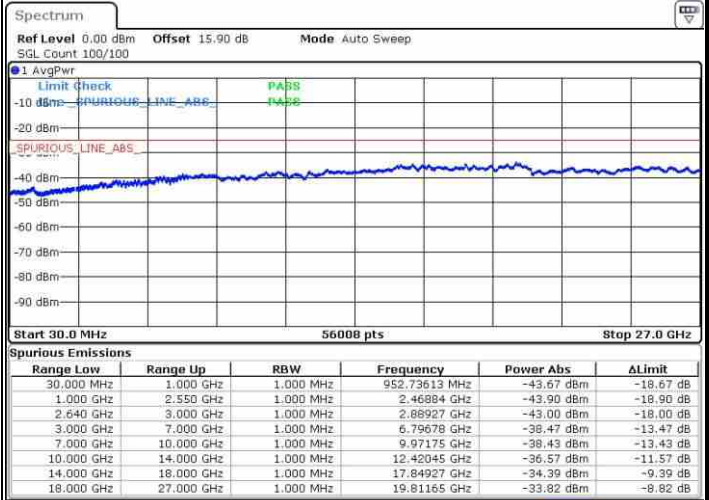
LTE Band 38 / 15MHz

Lowest Channel / 64QAM



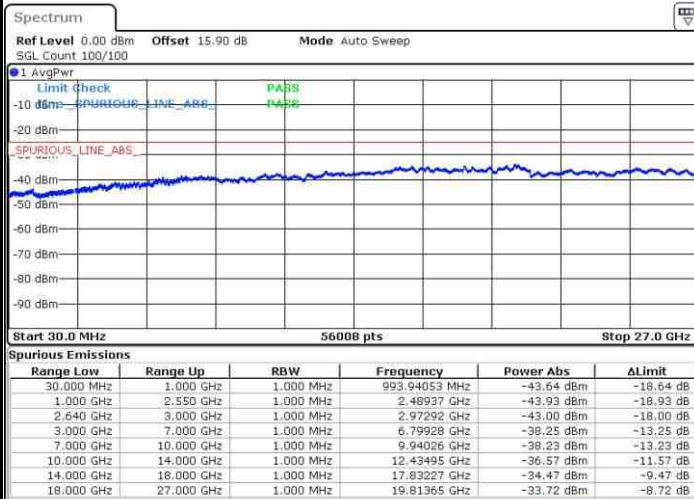
Date: 11.MAR.2019 13:16:12

Middle Channel / 64QAM



Date: 11.MAR.2019 13:16:58

Highest Channel / 64QAM

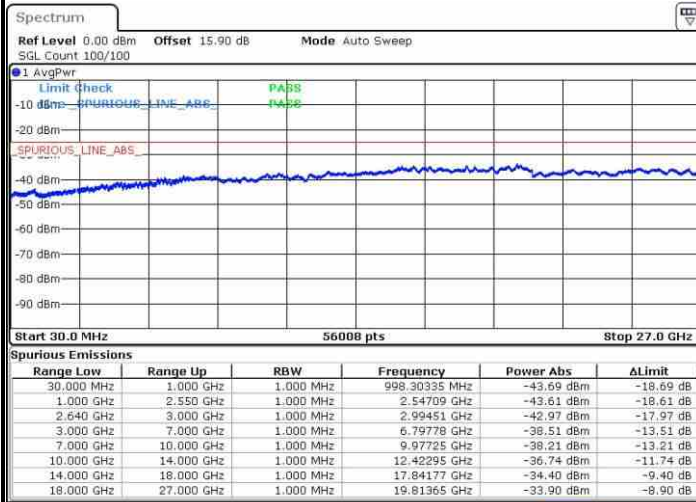


Date: 11.MAR.2019 13:17:44



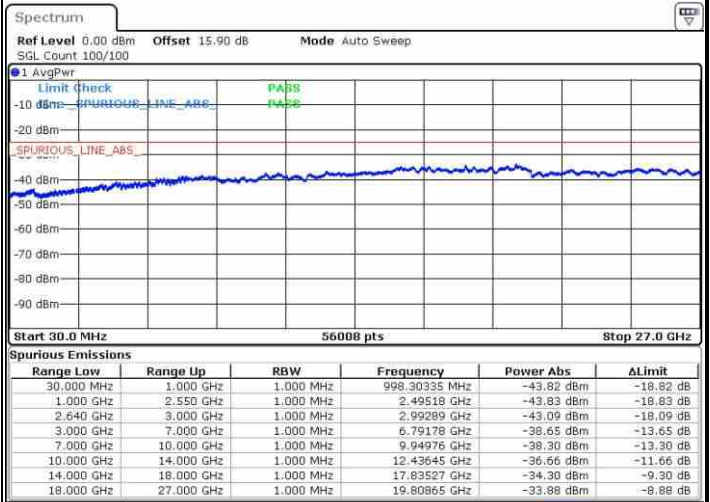
LTE Band 38 / 20MHz

Lowest Channel / 64QAM



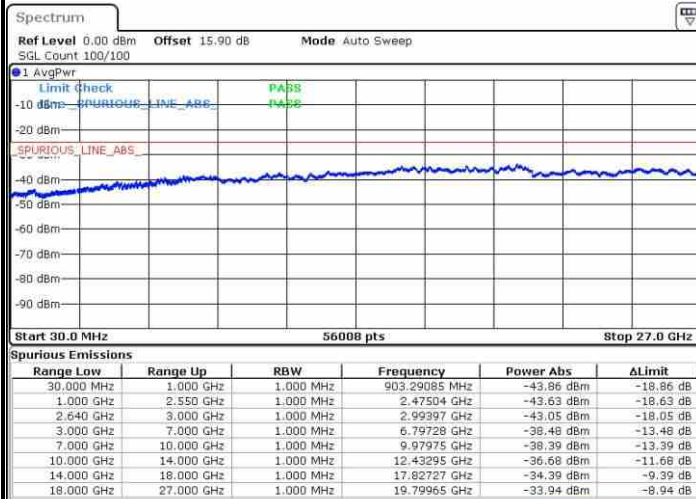
Date: 11.MAR.2019 13:18:30

Middle Channel / 64QAM



Date: 11.MAR.2019 13:19:16

Highest Channel / 64QAM



Date: 11.MAR.2019 13:20:02

Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0066	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0069	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38_CA

26dB Bandwidth

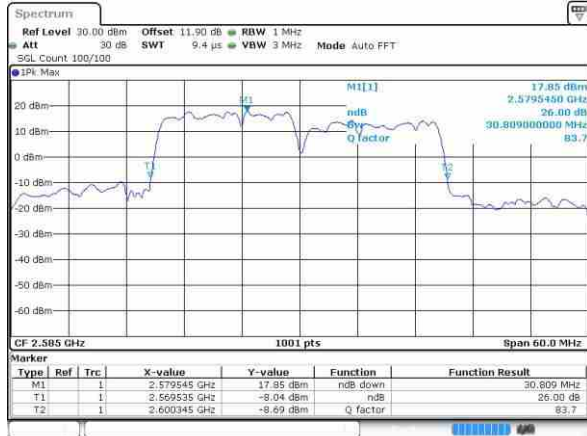
Mode	LTE Band 38 : 26dB BW(MHz)		
	QPSK	16QAM	64QAM
BW	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz
Lowest CH	30.81	30.45	30.57
Middle CH	30.75	30.39	30.51
Highest CH	30.51	30.69	30.57
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Lowest CH	39.64	39.96	39.80
Middle CH	39.72	39.72	39.56
Highest CH	39.64	39.80	39.80



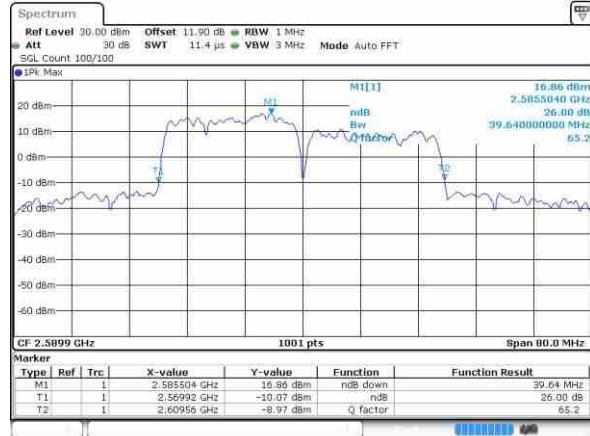
LTE Band 38

QPSK

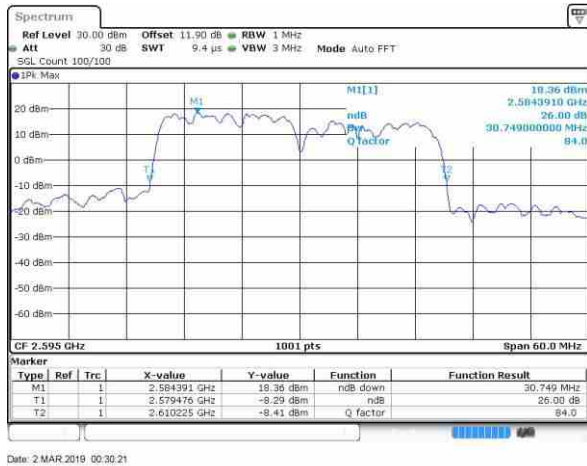
Lowest Channel / 15MHz+15MHz



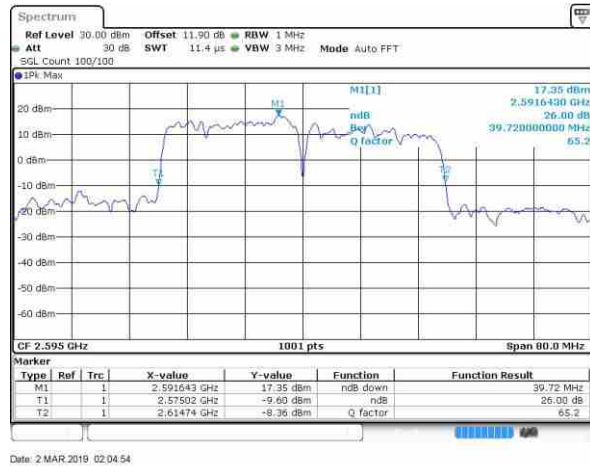
Lowest Channel / 20MHz+20MHz



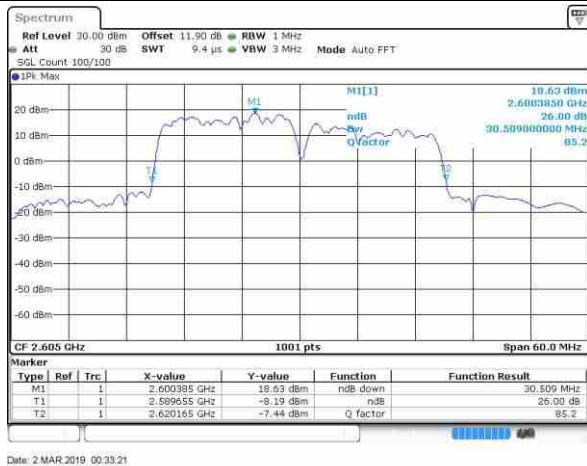
Middle Channel / 15MHz+15MHz



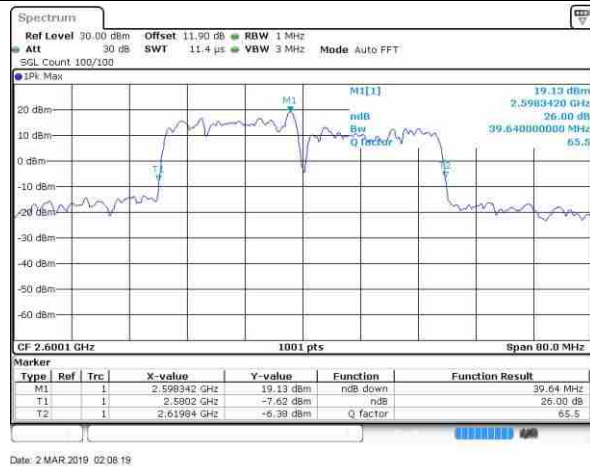
Middle Channel / 20MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 20MHz+20MHz

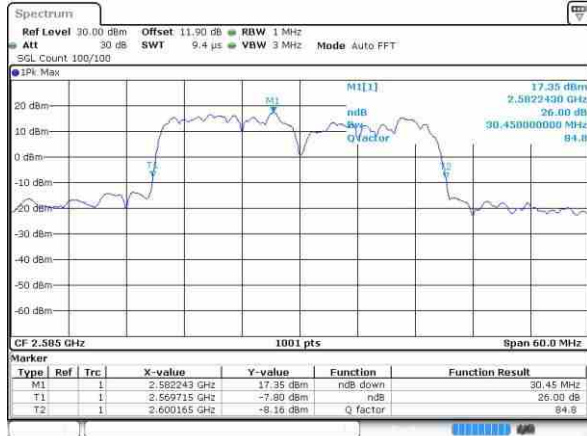




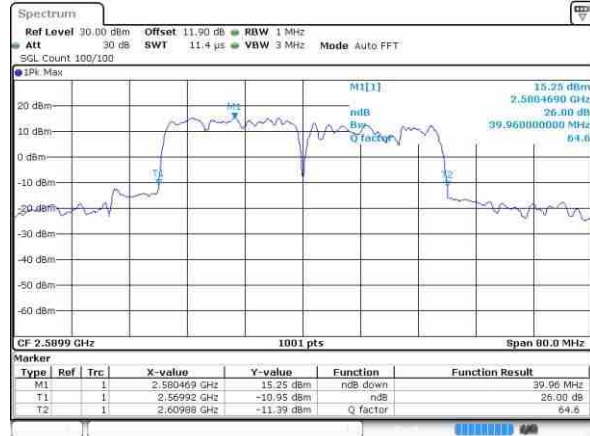
LTE Band 38

16QAM

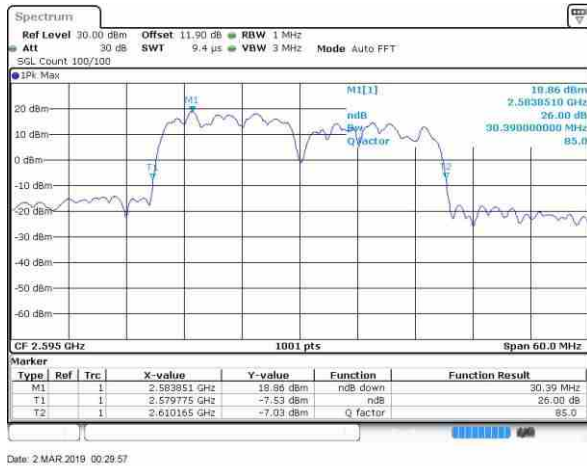
Lowest Channel / 15MHz+15MHz



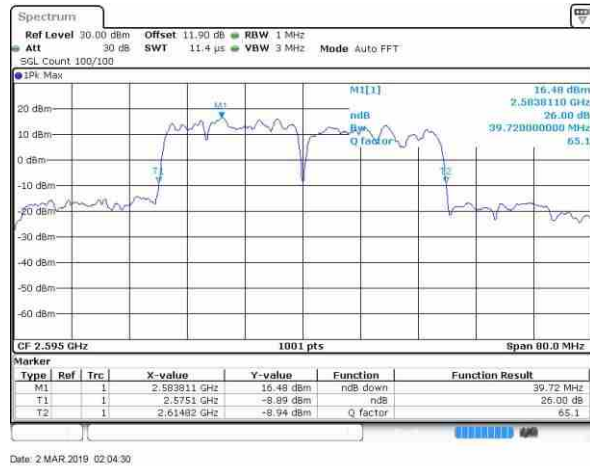
Lowest Channel / 20MHz+20MHz



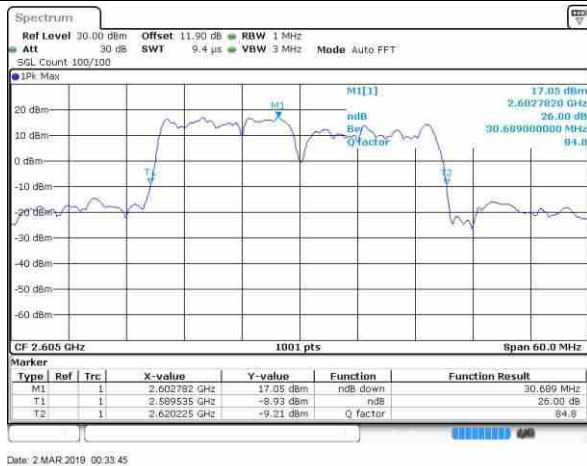
Middle Channel / 15MHz+15MHz



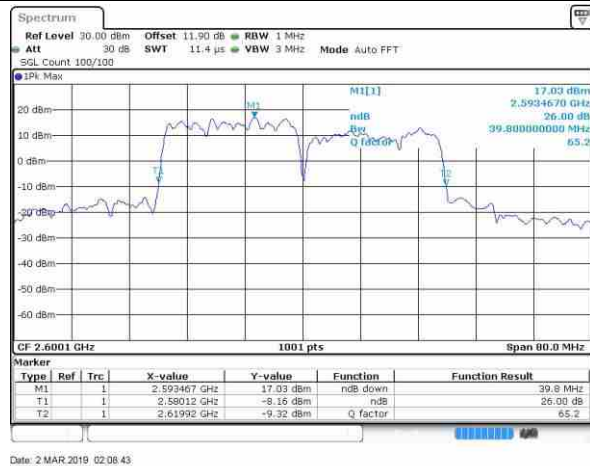
Middle Channel / 20MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 20MHz+20MHz

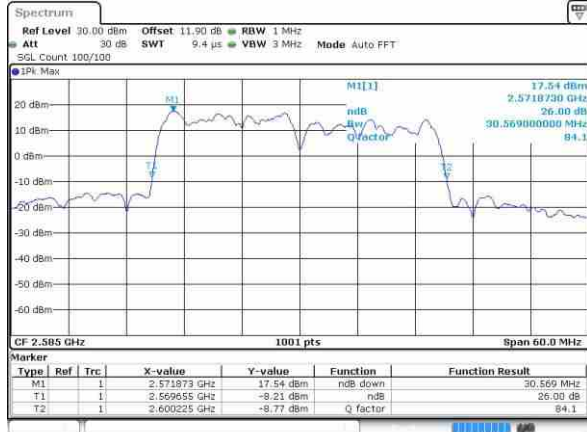




LTE Band 38

64QAM

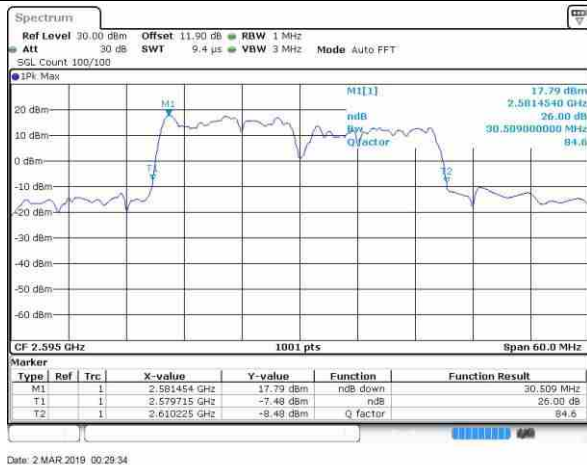
Lowest Channel / 15MHz+15MHz



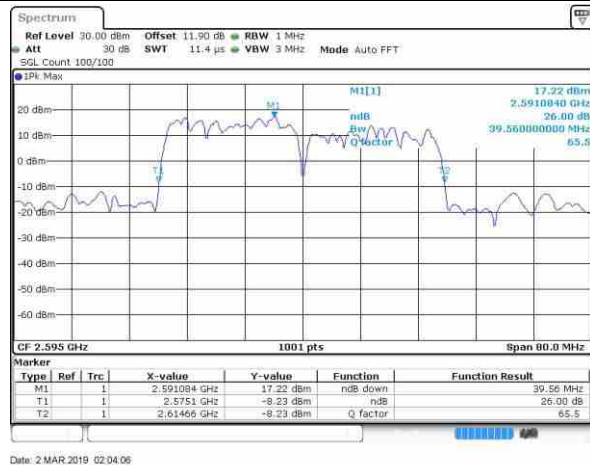
Lowest Channel / 20MHz+20MHz



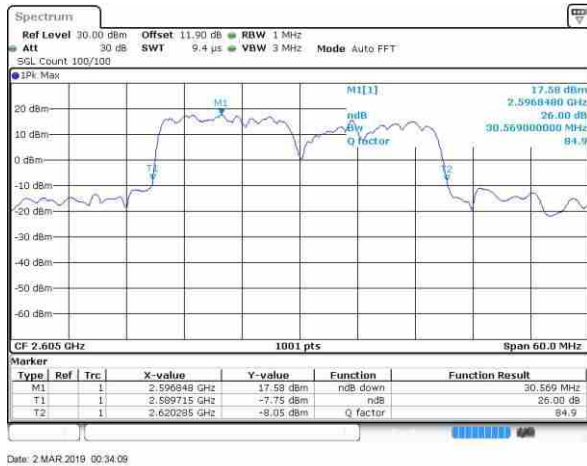
Middle Channel / 15MHz+15MHz



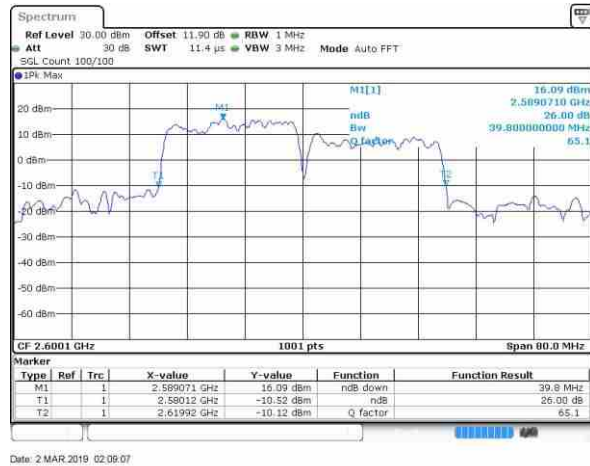
Middle Channel / 20MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 20MHz+20MHz



**Occupied Bandwidth**

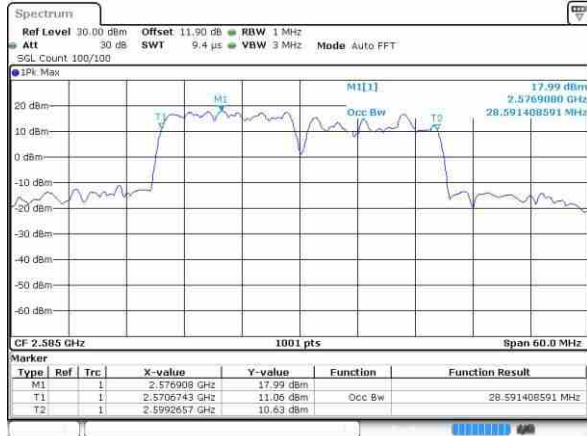
Mode	LTE Band 38 : 99%OBW(MHz)		
	QPSK	16QAM	64QAM
BW	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz
Lowest CH	28.59	28.41	28.35
Middle CH	28.77	28.47	28.83
Highest CH	28.47	28.41	28.35
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Lowest CH	37.56	37.40	37.56
Middle CH	37.72	37.56	37.56
Highest CH	37.32	37.48	37.64



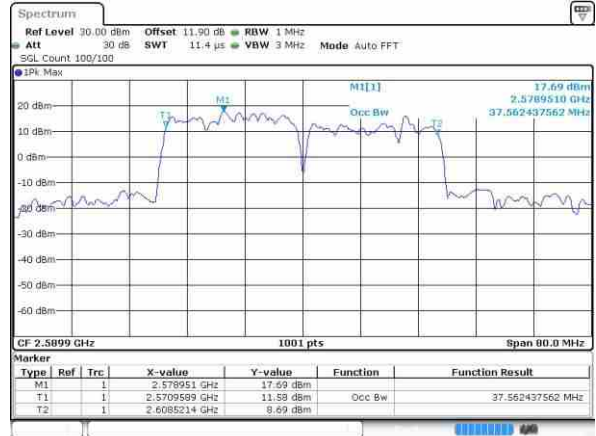
LTE Band 38

QPSK

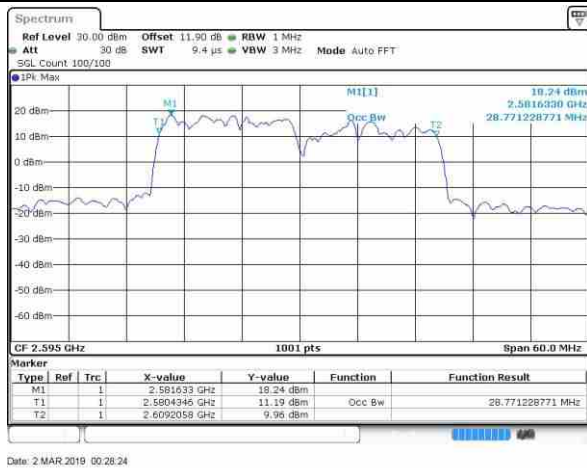
Lowest Channel / 15MHz+15MHz



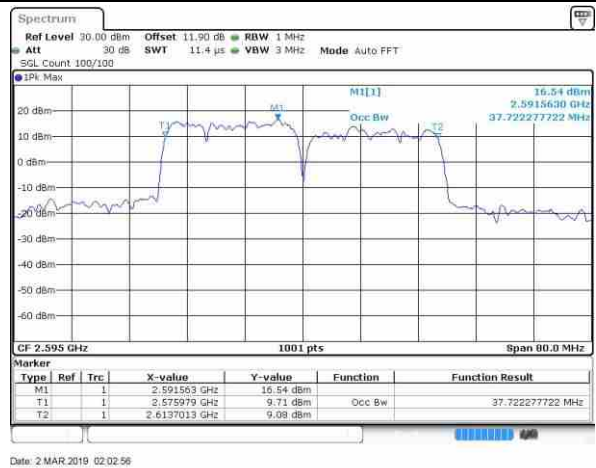
Lowest Channel / 20MHz+20MHz



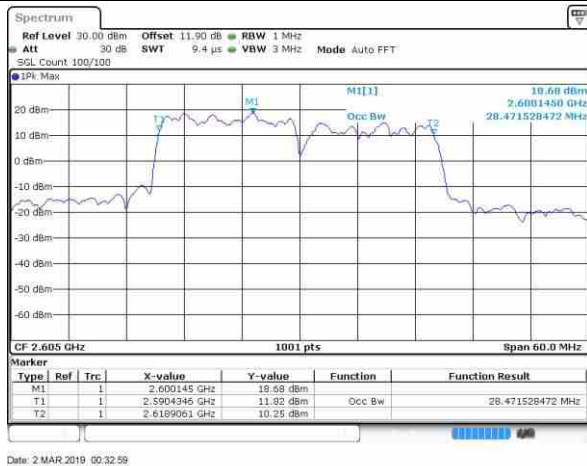
Middle Channel / 15MHz+15MHz



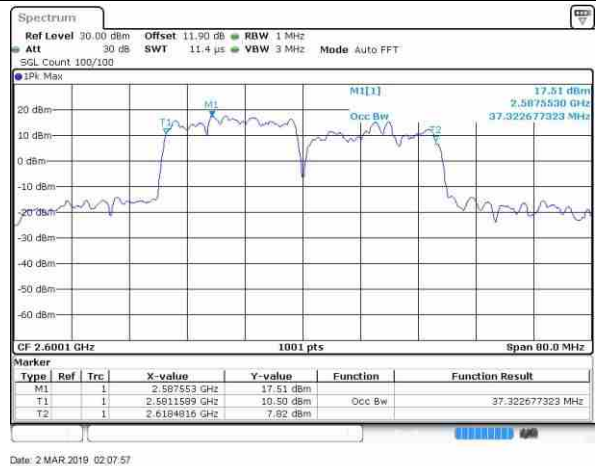
Middle Channel / 20MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 20MHz+20MHz

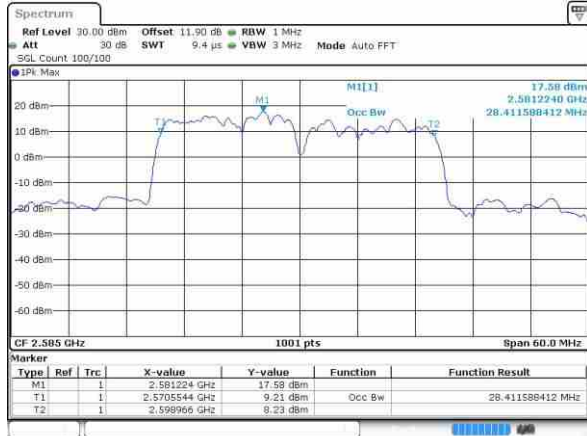




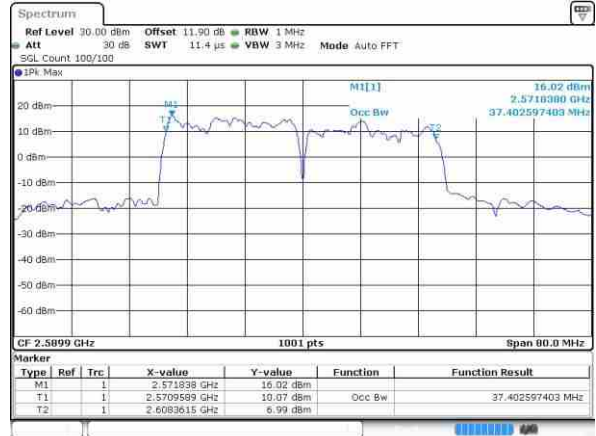
LTE Band 38

16QAM

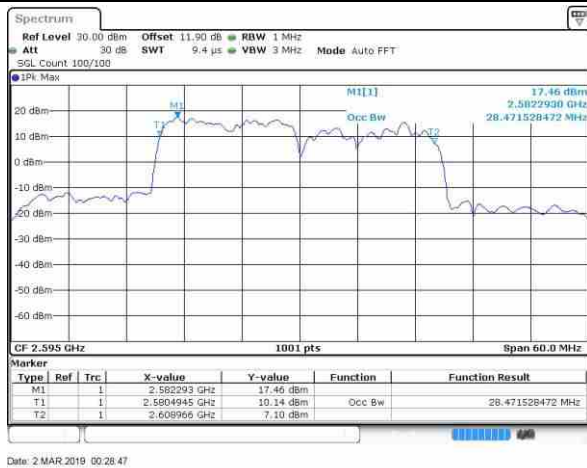
Lowest Channel / 15MHz+15MHz



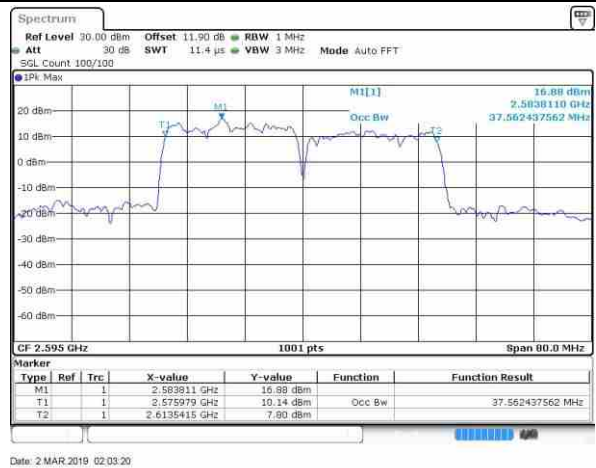
Lowest Channel / 20MHz+20MHz



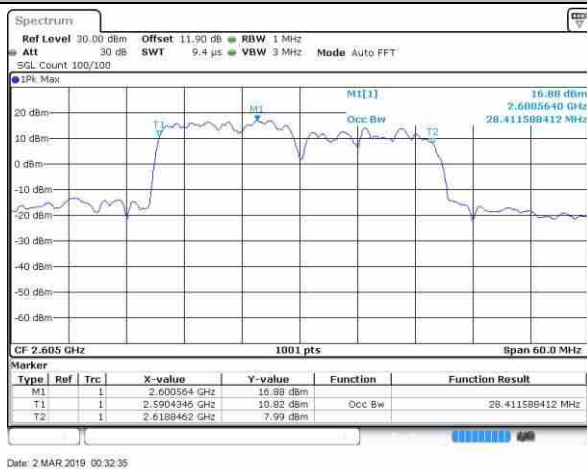
Middle Channel / 15MHz+15MHz



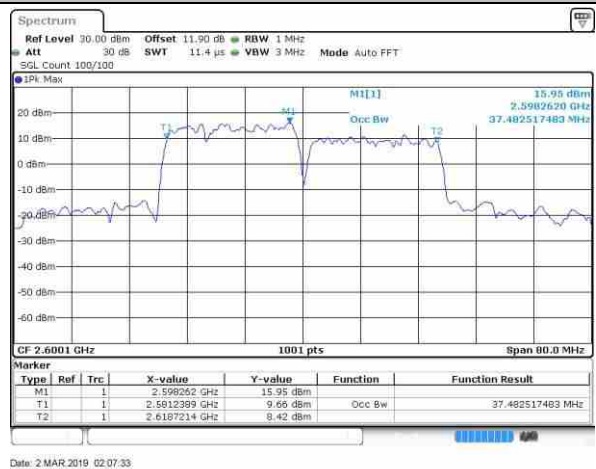
Middle Channel / 20MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 20MHz+20MHz

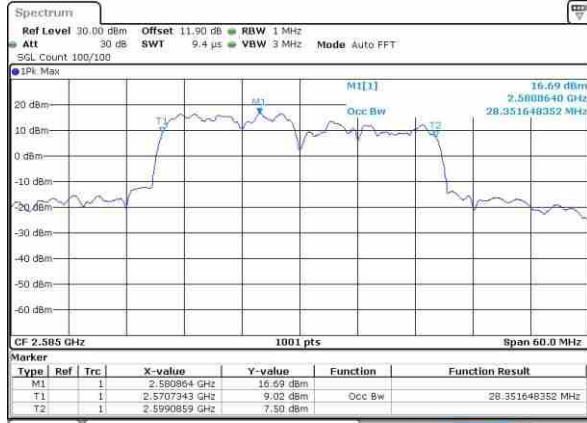




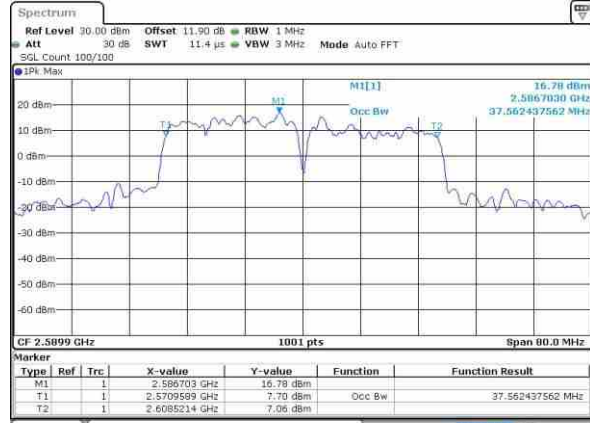
LTE Band 38

64QAM

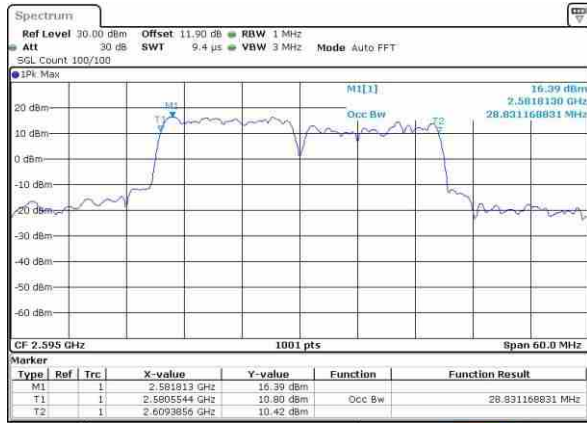
Lowest Channel / 15MHz+15MHz



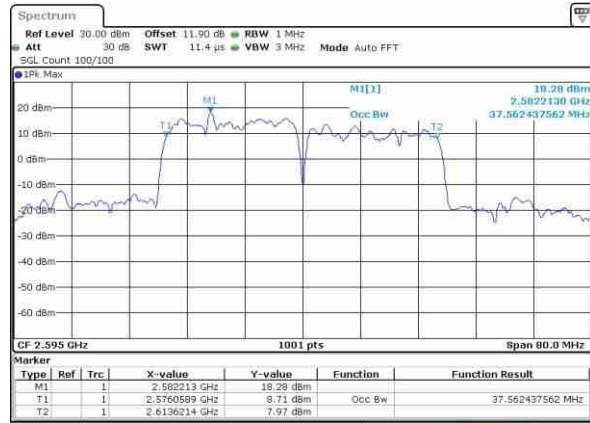
Lowest Channel / 20MHz+20MHz



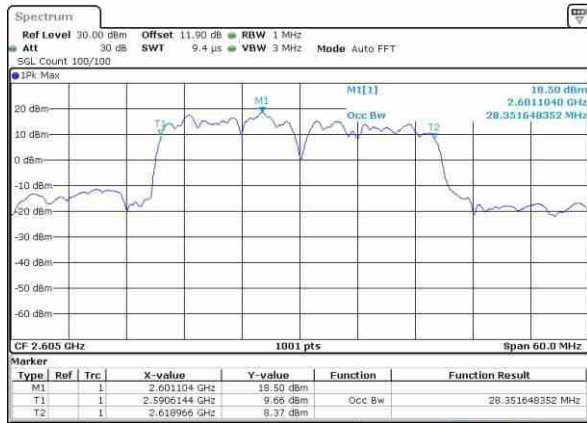
Middle Channel / 15MHz+15MHz



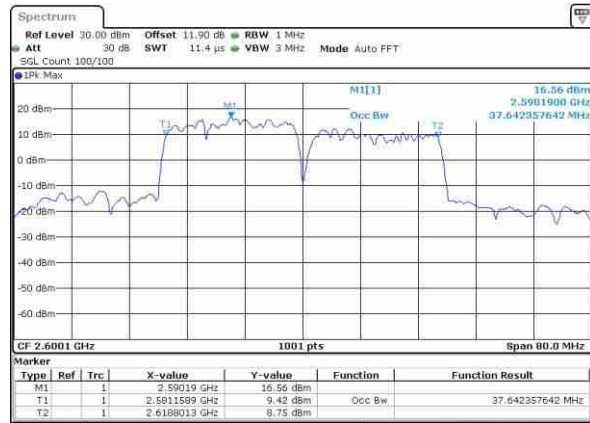
Middle Channel / 20MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 20MHz+20MHz





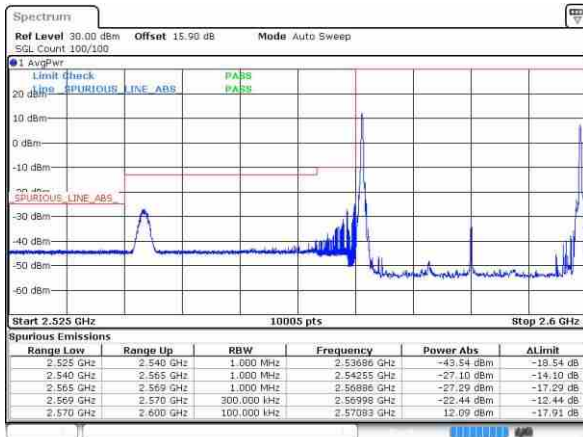
Conducted Band Edge



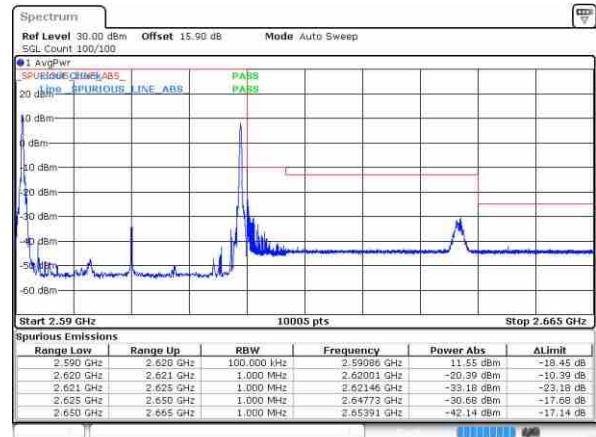
LTE Band 38 / 15MHz+15MHz

QPSK

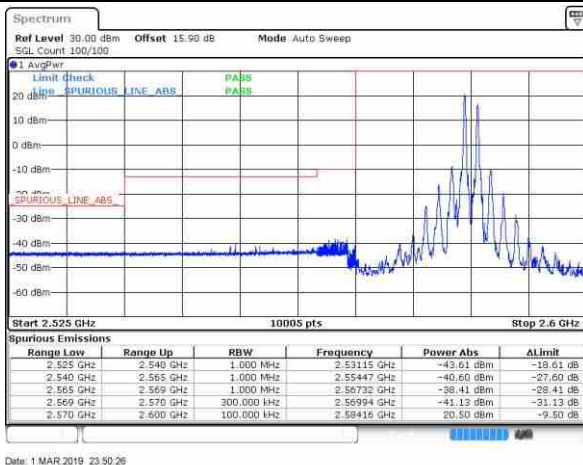
Lowest Band Edge / 1RB0 and 1RB74



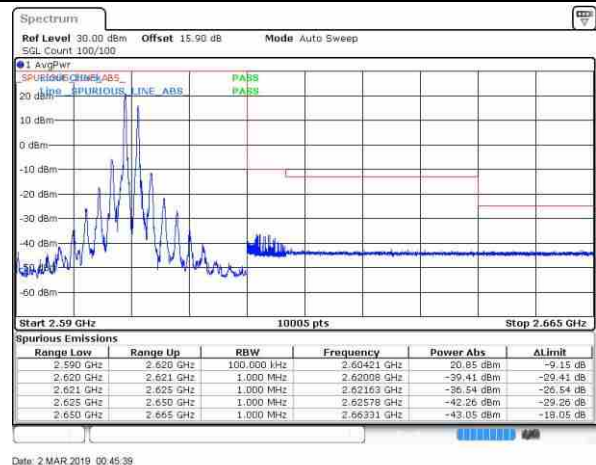
Highest Band Edge / 1RB0 and 1RB74



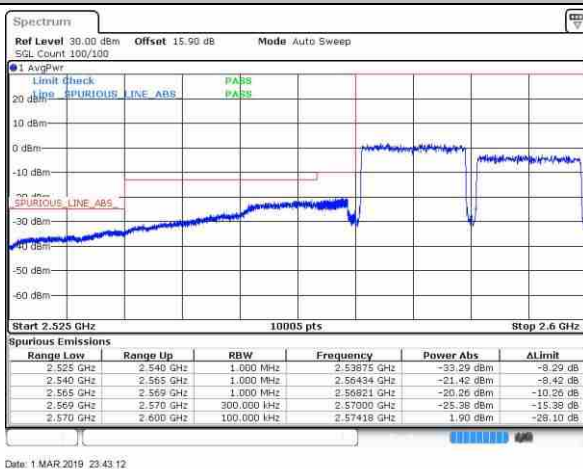
Lowest Band Edge / 1RB74 and 1RB0



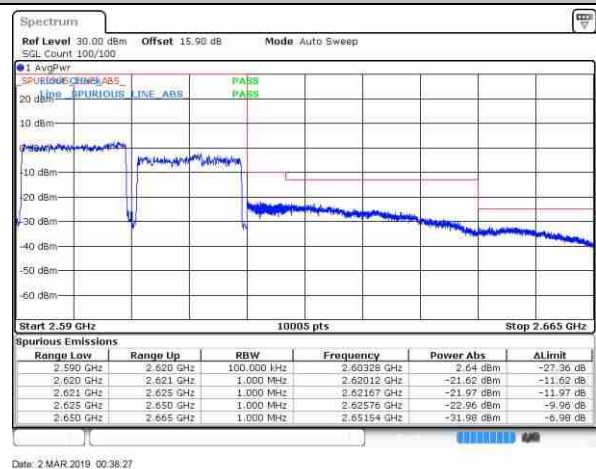
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

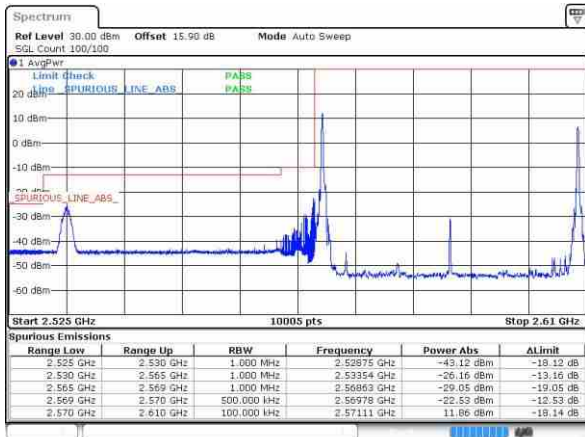




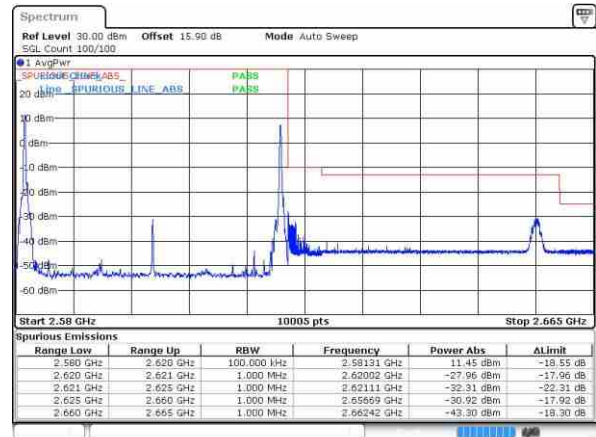
LTE Band 38 / 20MHz+20MHz

QPSK

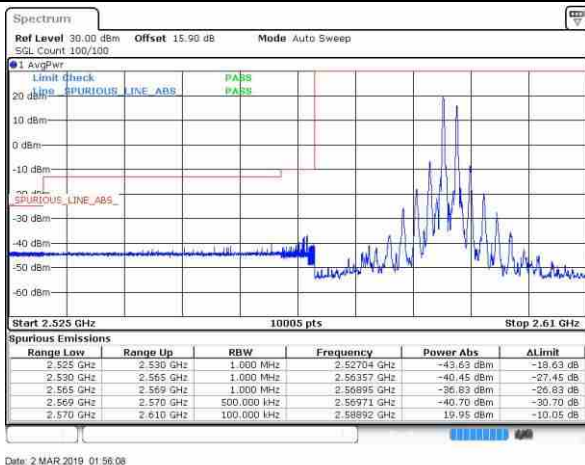
Lowest Band Edge / 1RB0 and 1RB99



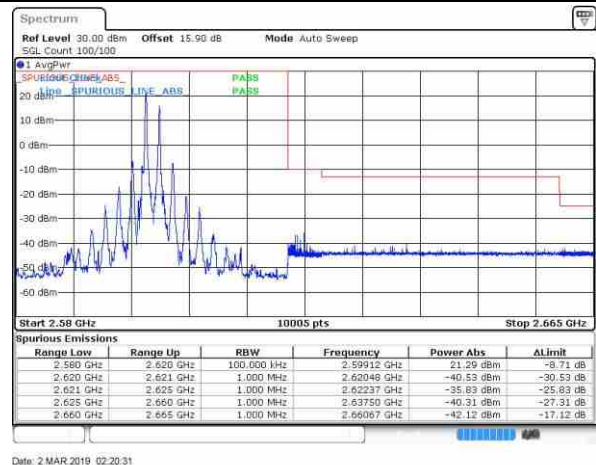
Highest Band Edge / 1RB0 and 1RB99



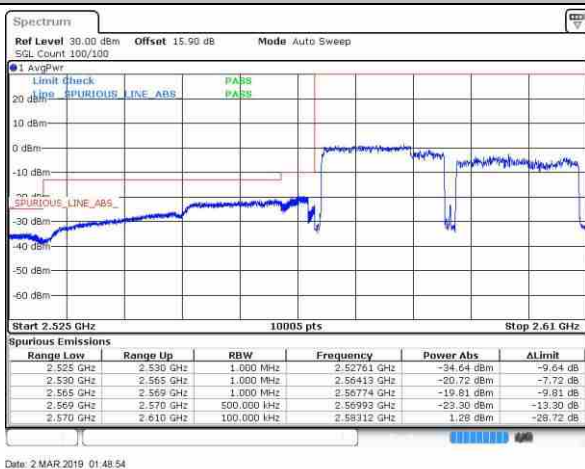
Lowest Band Edge / 1RB99 and 1RB0



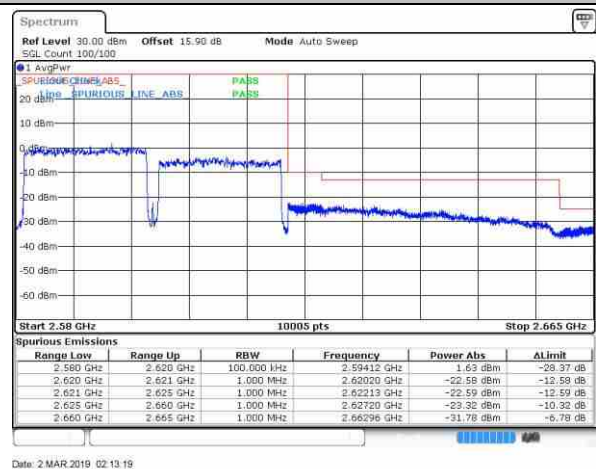
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

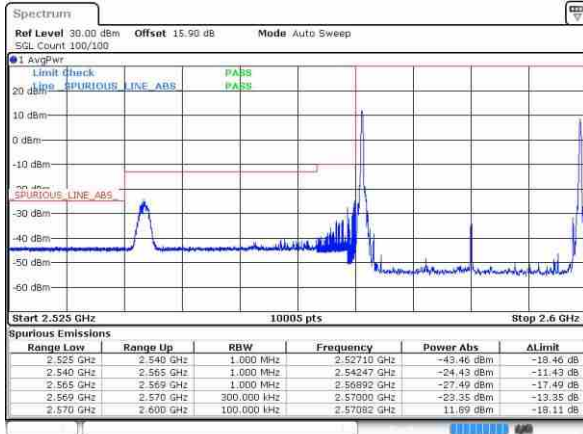




LTE Band 38 / 15MHz+15MHz

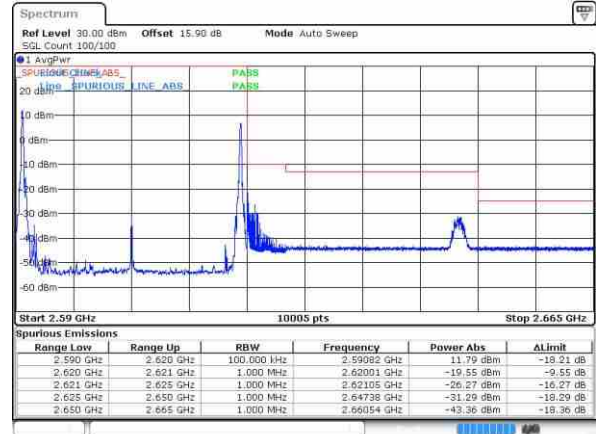
16QAM

Lowest Band Edge / 1RB0 and 1RB74



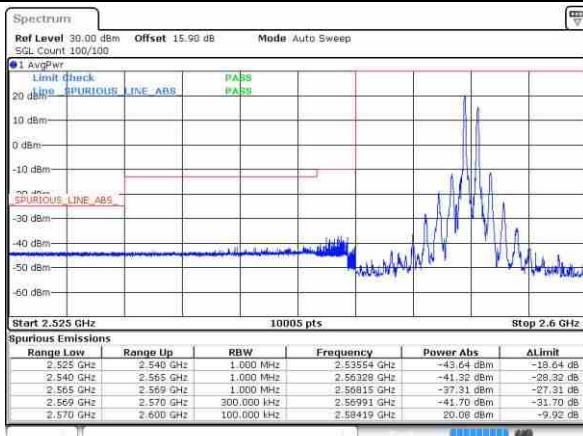
Date: 1 MAR 2019 23:48:02

Highest Band Edge / 1RB0 and 1RB74



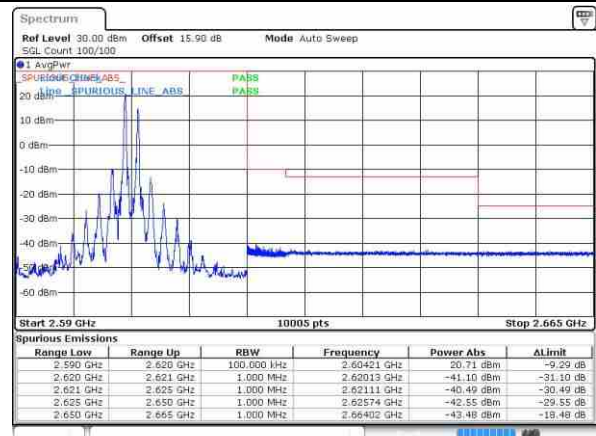
Date: 2 MAR 2019 00:40:51

Lowest Band Edge / 1RB74 and 1RB0



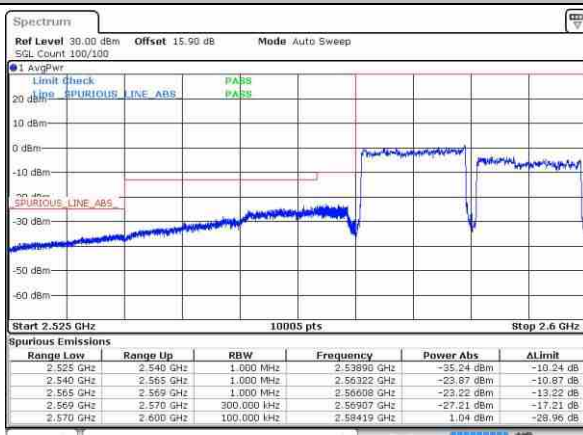
Date: 1 MAR 2019 23:51:39

Highest Band Edge / 1RB74 and 1RB0



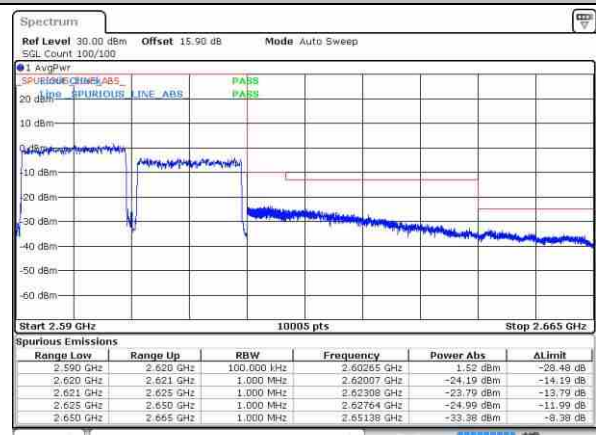
Date: 2 MAR 2019 00:44:27

Lowest Band Edge / Full RB



Date: 1 MAR 2019 23:44:24

Highest Band Edge / Full RB



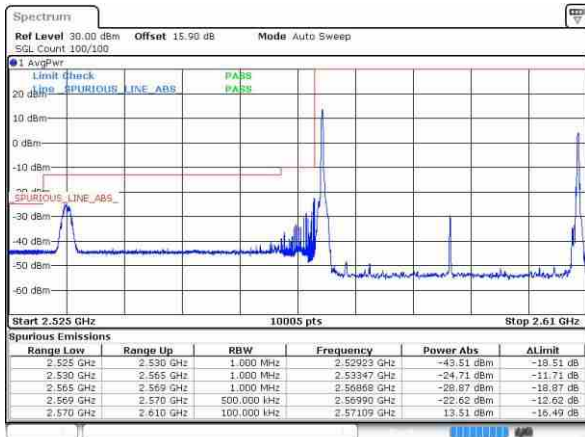
Date: 2 MAR 2019 00:37:14



LTE Band 38 / 20MHz+20MHz

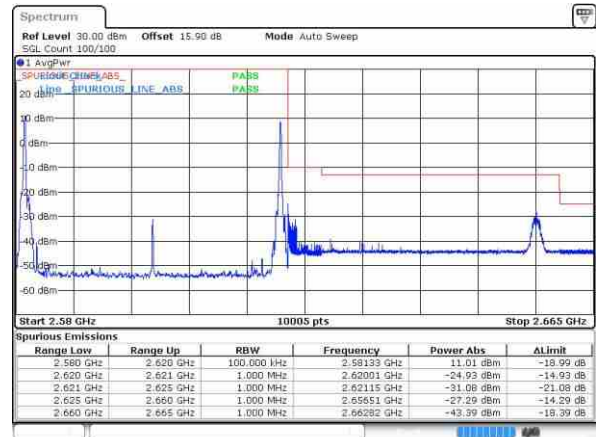
16QAM

Lowest Band Edge / 1RB0 and 1RB99



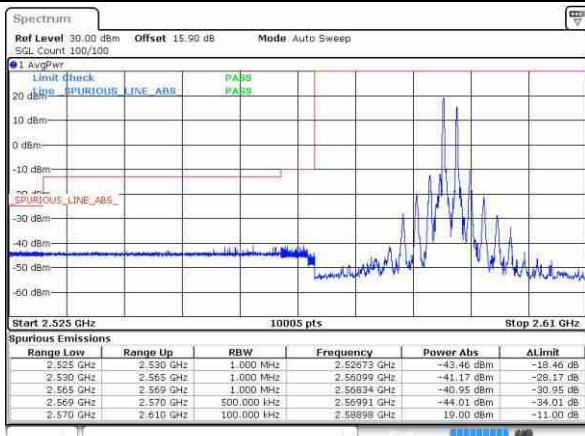
Date: 2 MAR 2019 01:53:44

Highest Band Edge / 1RB0 and 1RB99



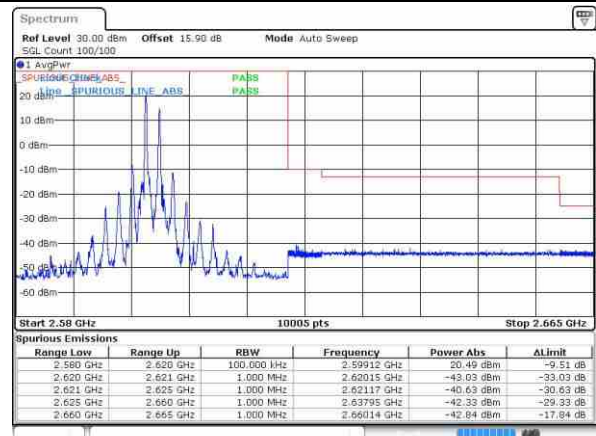
Date: 2 MAR 2019 02:15:43

Lowest Band Edge / 1RB99 and 1RB0



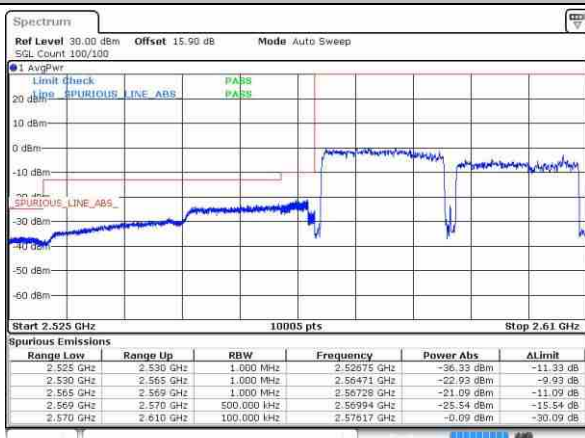
Date: 2 MAR 2019 01:57:20

Highest Band Edge / 1RB99 and 1RB0



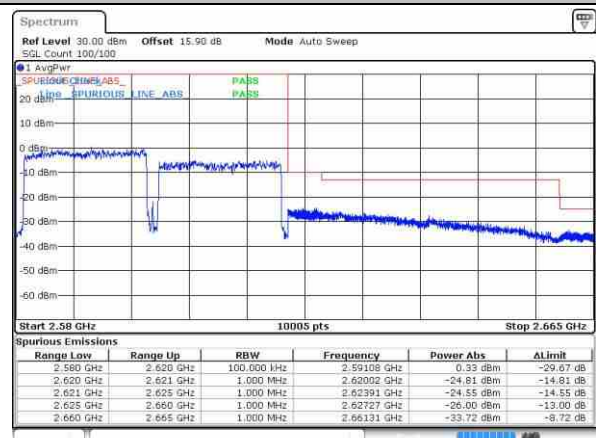
Date: 2 MAR 2019 02:19:19

Lowest Band Edge / Full RB



Date: 2 MAR 2019 01:50:06

Highest Band Edge / Full RB



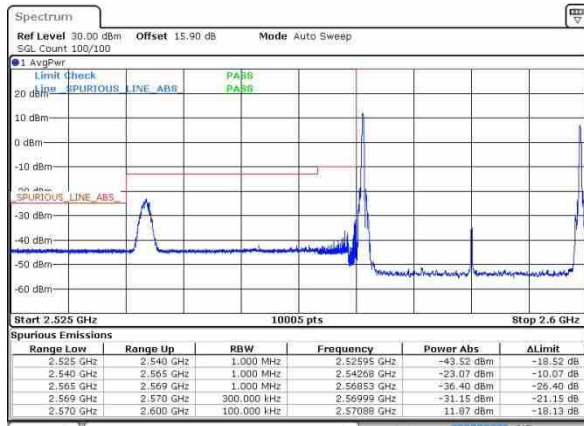
Date: 2 MAR 2019 02:12:07



LTE Band 38 / 15MHz+15MHz

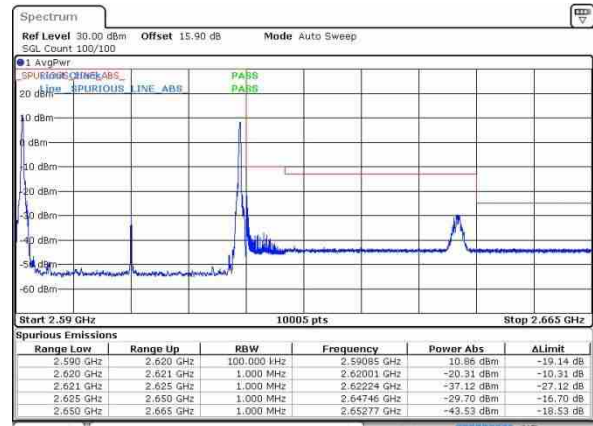
64QAM

Lowest Band Edge / 1RB0 and 1RB74



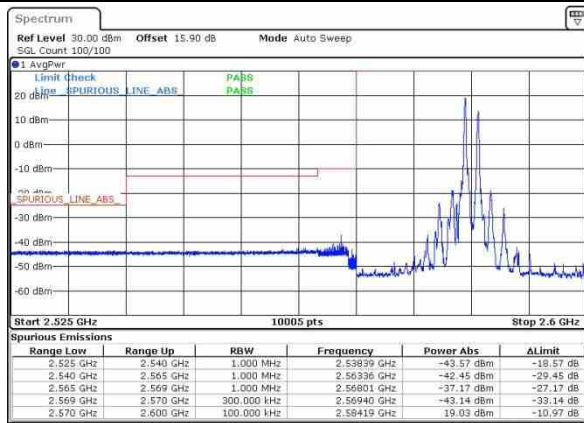
Date: 1 MAR 2019 23:48:49

Highest Band Edge / 1RB0 and 1RB74



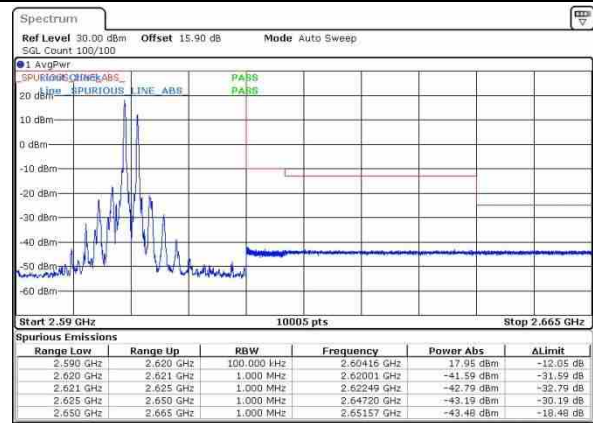
Date: 2 MAR 2019 00:42:03

Lowest Band Edge / 1RB74 and 1RB0



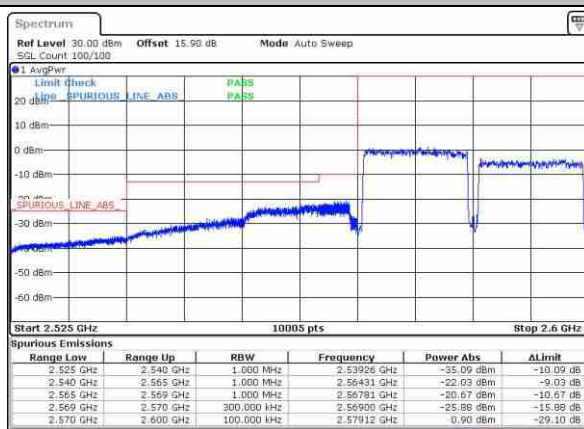
Date: 1 MAR 2019 23:52:51

Highest Band Edge / 1RB74 and 1RB0



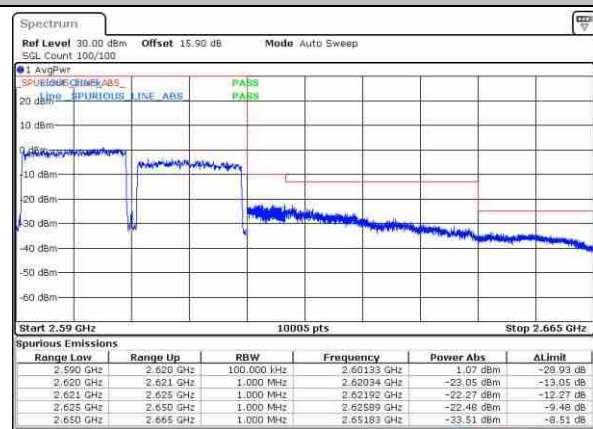
Date: 2 MAR 2019 00:43:14

Lowest Band Edge / Full RB



Date: 1 MAR 2019 23:45:37

Highest Band Edge / Full RB



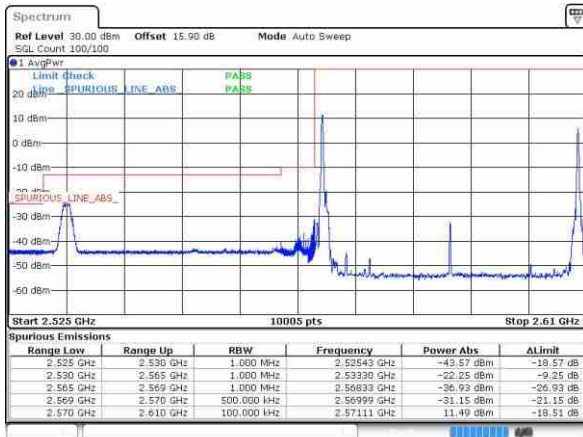
Date: 2 MAR 2019 00:36:02



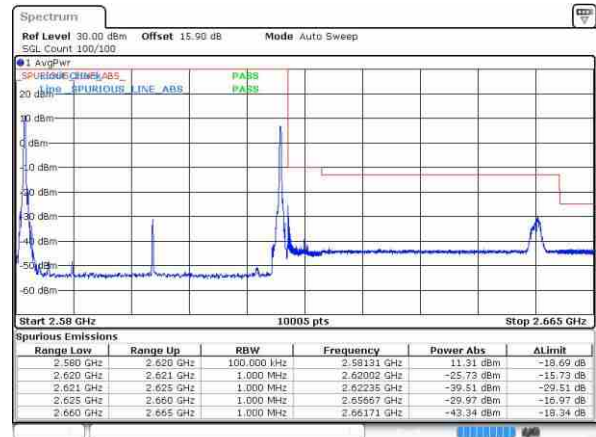
LTE Band 38 / 20MHz+20MHz

64QAM

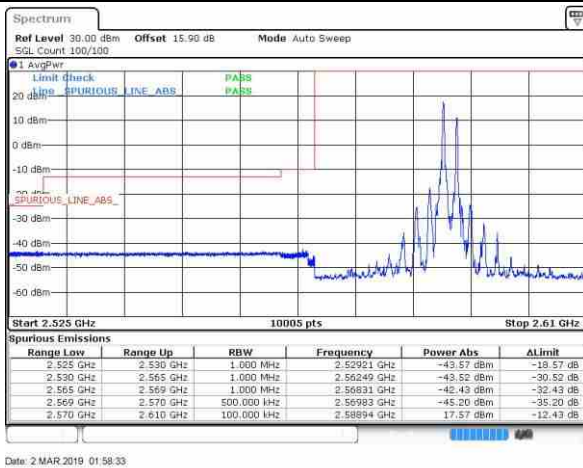
Lowest Band Edge / 1RB0 and 1RB99



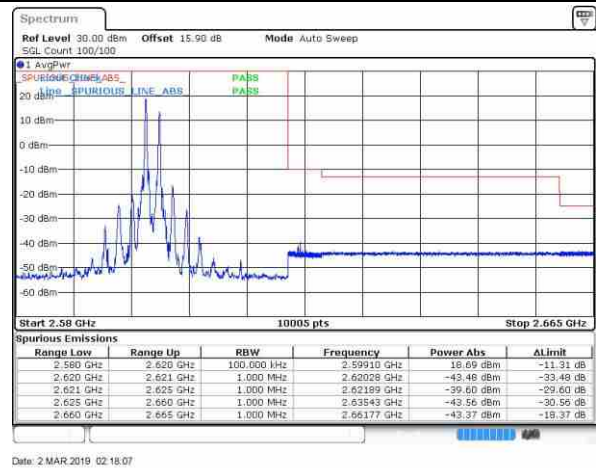
Highest Band Edge / 1RB0 and 1RB99



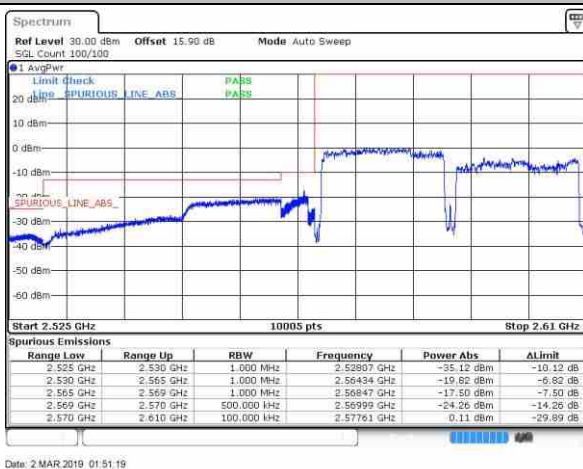
Lowest Band Edge / 1RB99 and 1RB0



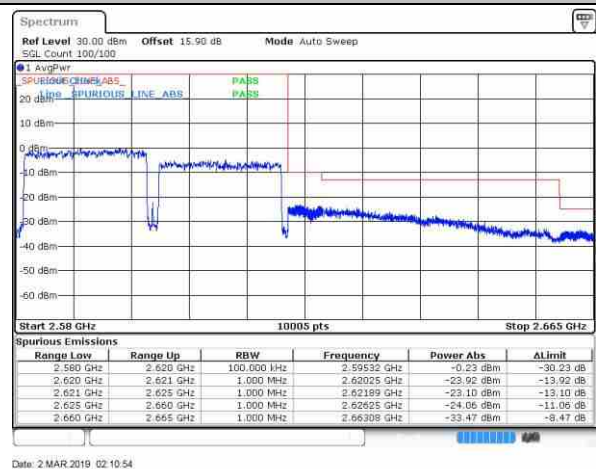
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





Conducted Spurious Emission