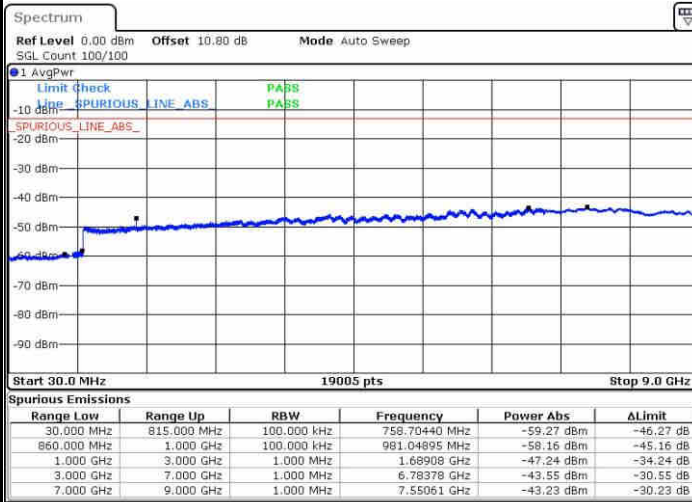




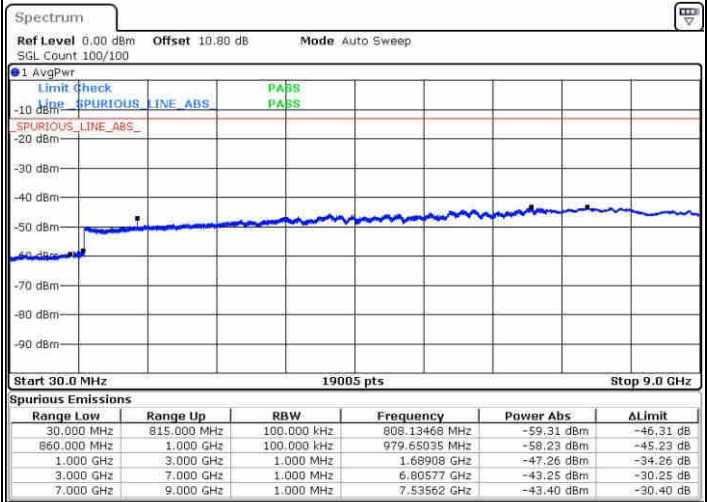
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 29 APR 2019 08:17:19

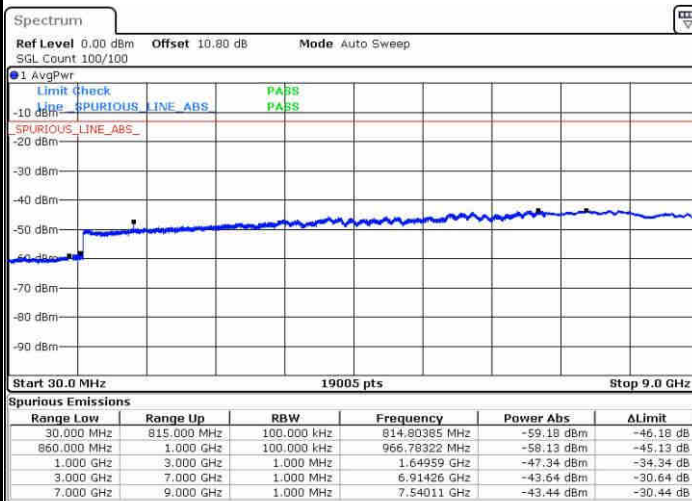
Highest Channel / 16QAM



Date: 29 APR 2019 08:17:55

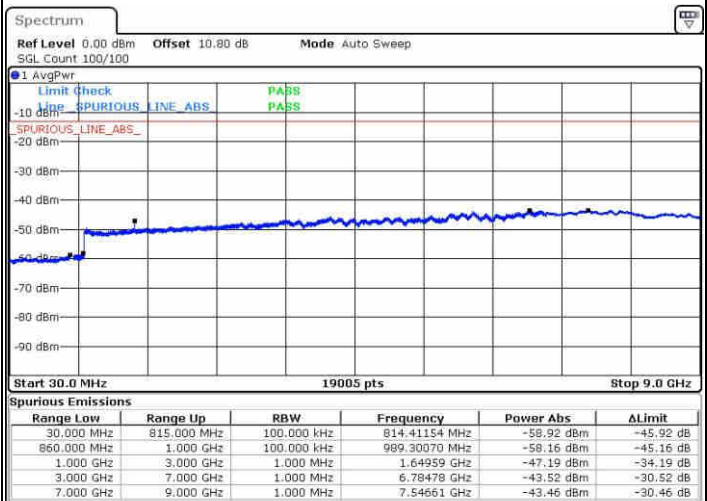
LTE Band 26 / 10MHz

Lowest Channel / QPSK



Date: 29 APR 2019 08:18:32

Lowest Channel / 16QAM

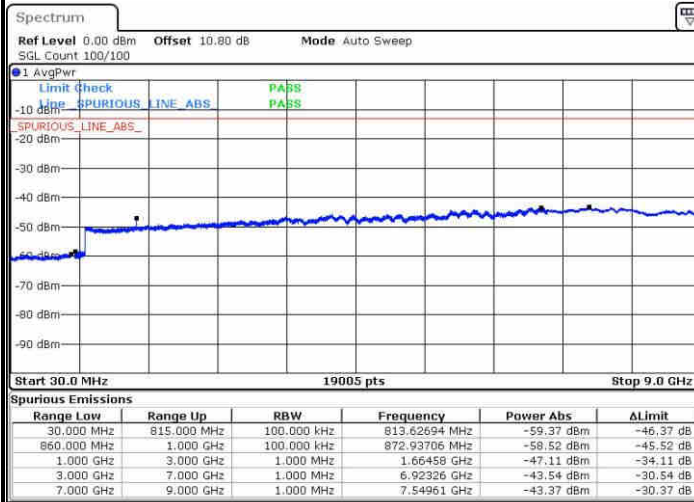


Date: 29 APR 2019 08:19:08



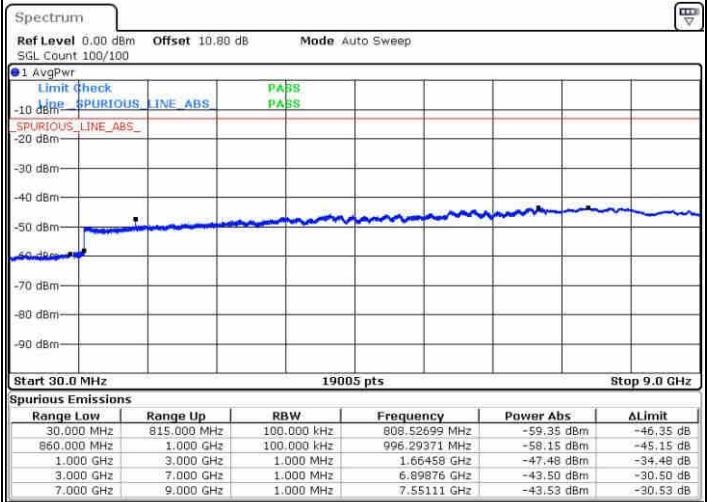
LTE Band 26 / 10MHz

Middle Channel / QPSK



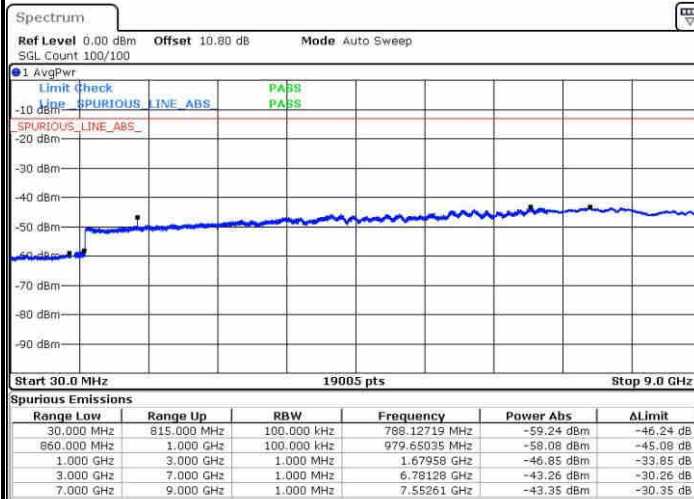
Date: 29 APR 2019 08:19:44

Middle Channel / 16QAM



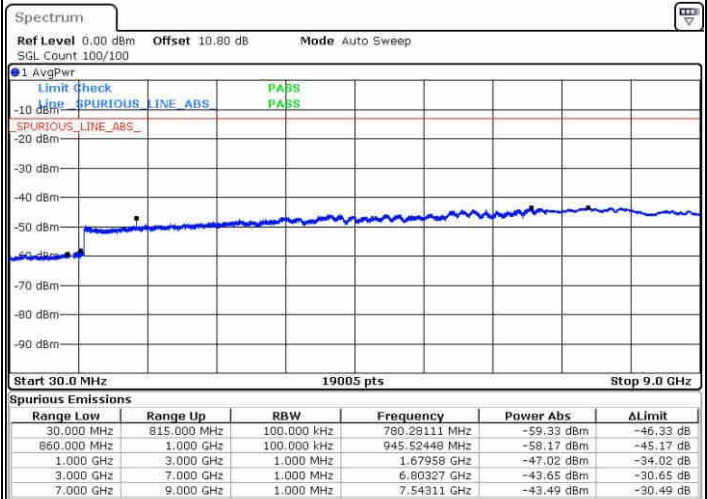
Date: 29 APR 2019 08:20:21

Highest Channel / QPSK



Date: 29 APR 2019 08:20:57

Highest Channel / 16QAM

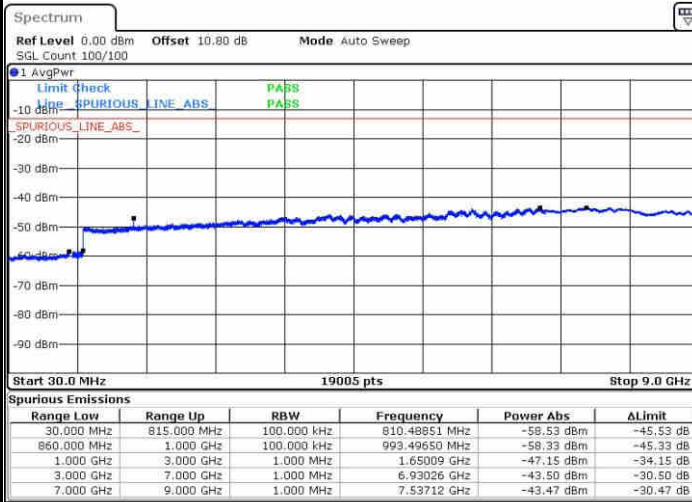


Date: 29 APR 2019 08:21:34



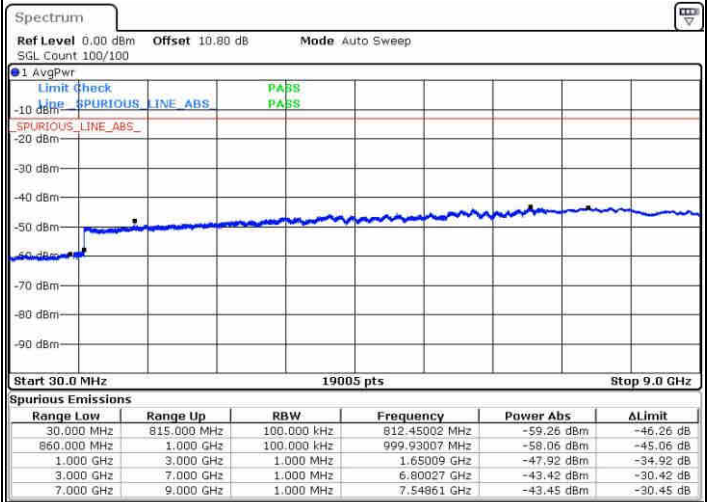
LTE Band 26 / 15MHz

Lowest Channel / QPSK



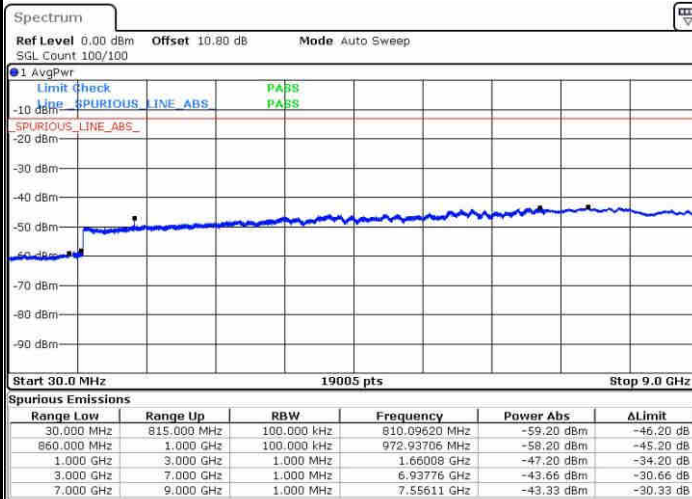
Date: 29 APR 2019 08:22:10

Lowest Channel / 16QAM



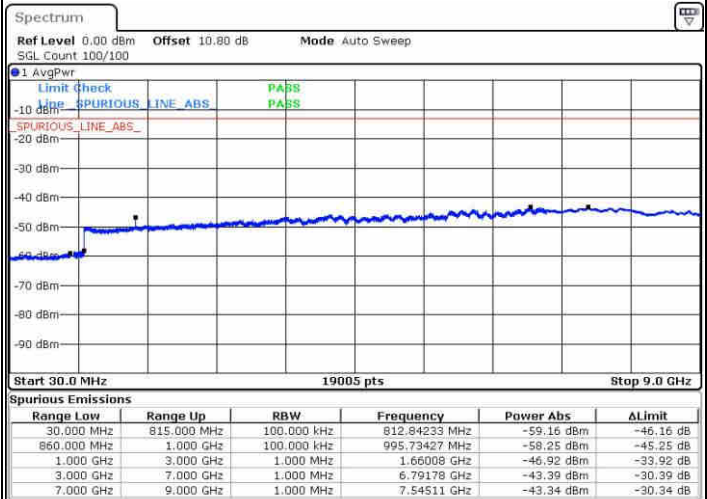
Date: 29 APR 2019 08:22:46

Middle Channel / QPSK



Date: 29 APR 2019 08:23:22

Middle Channel / 16QAM

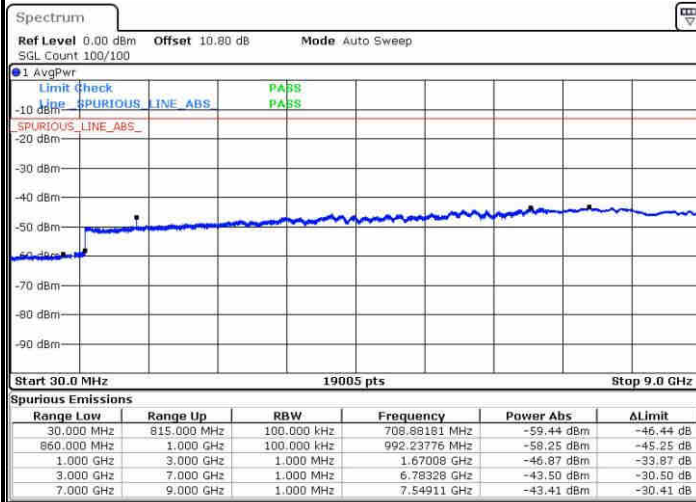


Date: 29 APR 2019 08:23:58



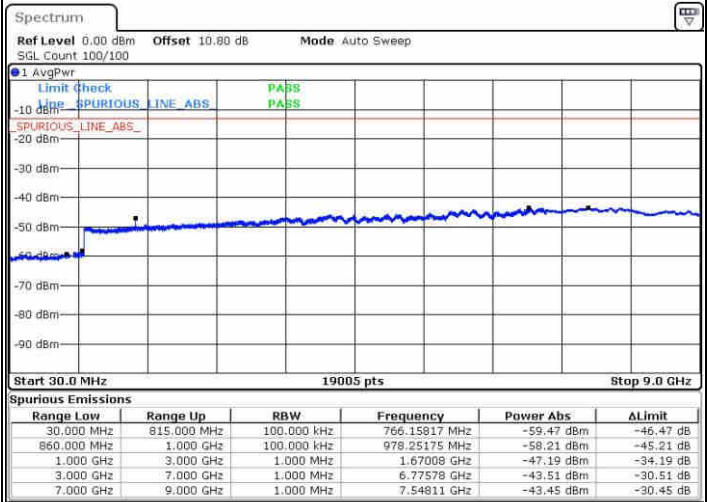
LTE Band 26 / 15MHz

Highest Channel / QPSK



Date: 29 APR 2019 08:24:34

Highest Channel / 16QAM

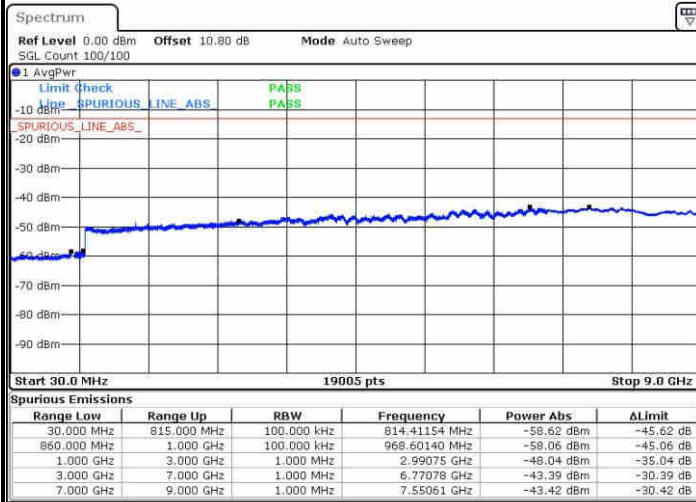


Date: 29 APR 2019 08:25:11



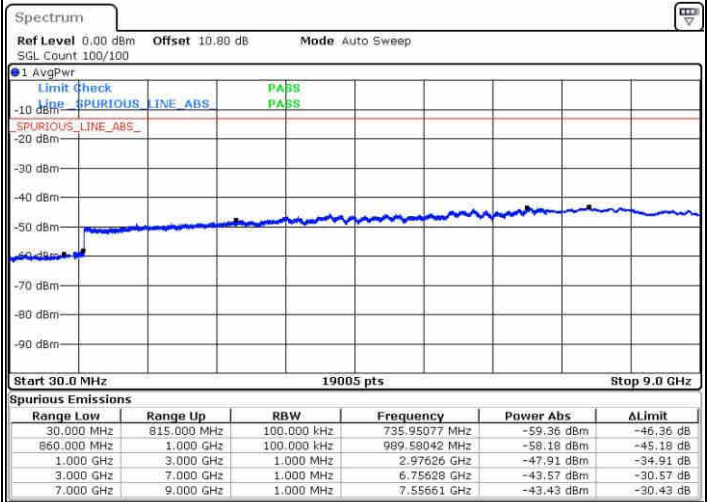
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



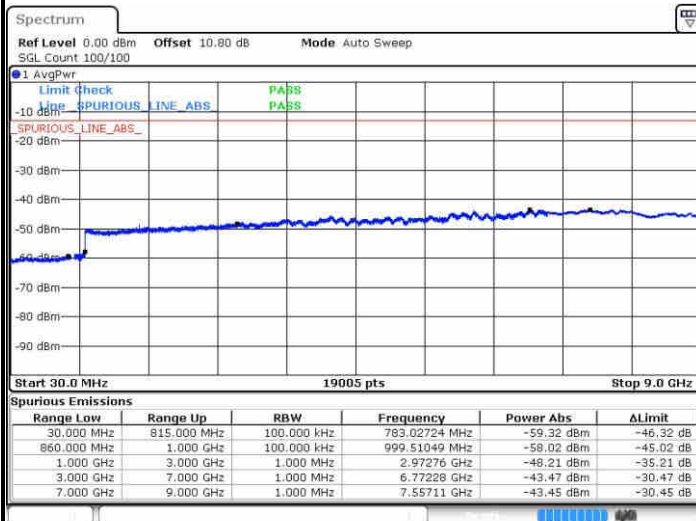
Date: 29 APR 2019 07:57:09

Middle Channel / 64QAM



Date: 29 APR 2019 07:57:46

Highest Channel / 64QAM

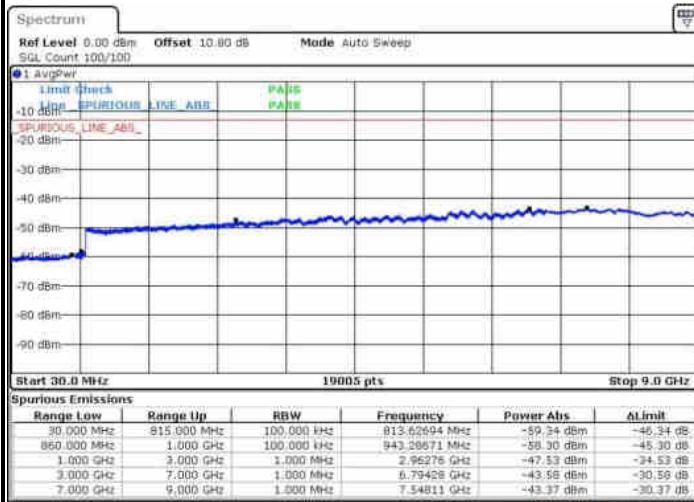


Date: 29 APR 2019 07:58:22



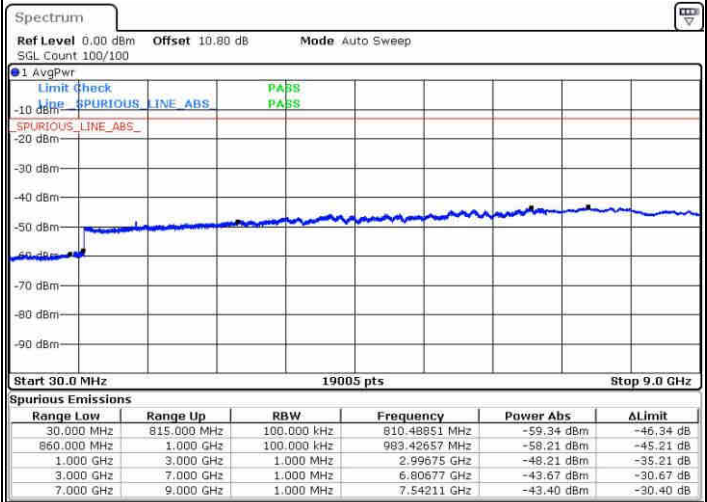
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



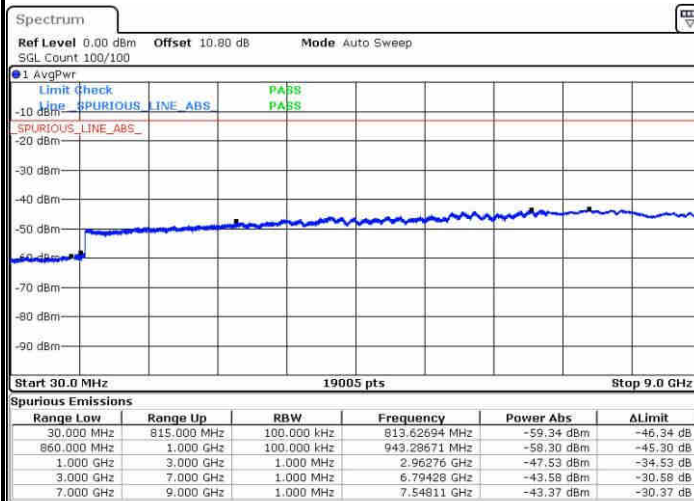
Date: 29 APR 2019 08:05:12

Middle Channel / 64QAM



Date: 29 APR 2019 08:04:36

Highest Channel / 64QAM

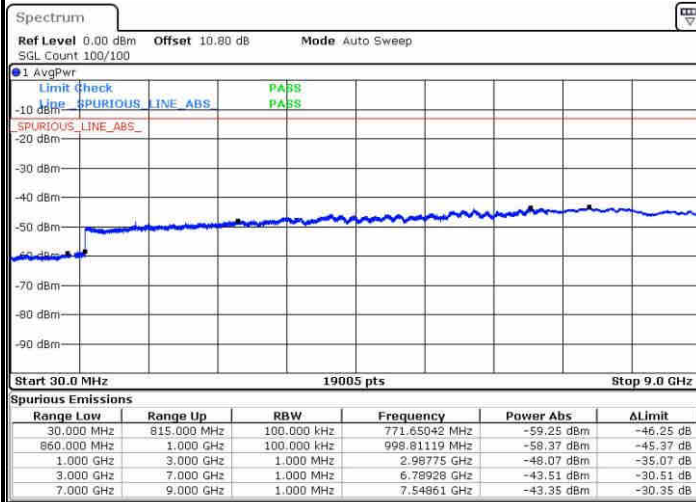


Date: 29 APR 2019 08:05:12



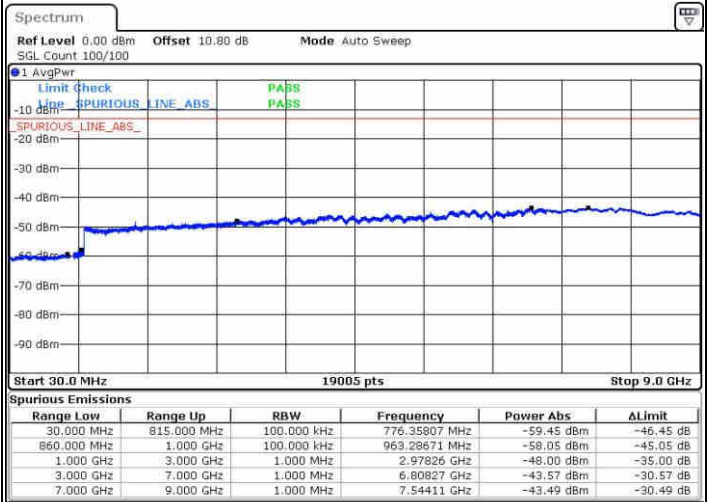
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



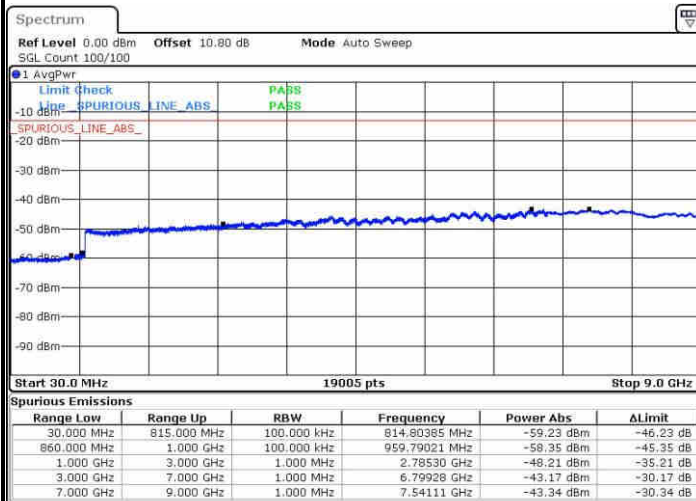
Date: 29 APR 2019 08:05:48

Middle Channel / 64QAM



Date: 29 APR 2019 08:06:24

Highest Channel / 64QAM

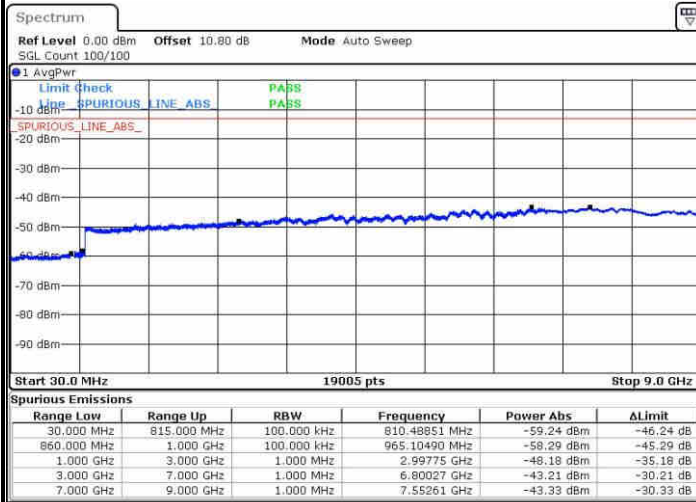


Date: 29 APR 2019 08:07:01



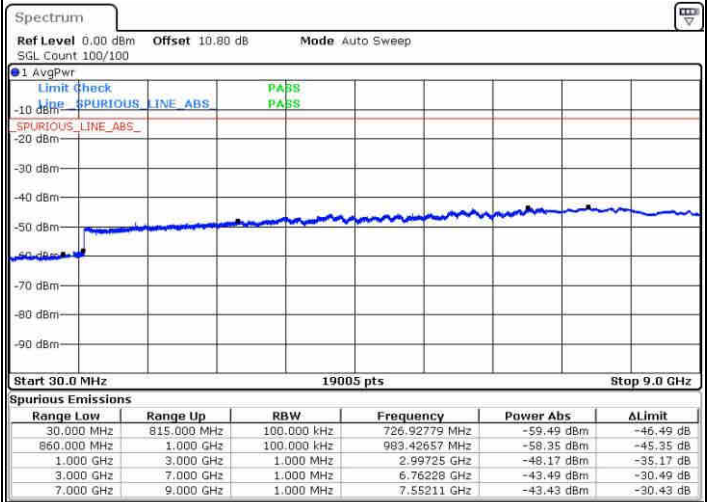
LTE Band 26 / 10MHz

Lowest Channel / 64QAM



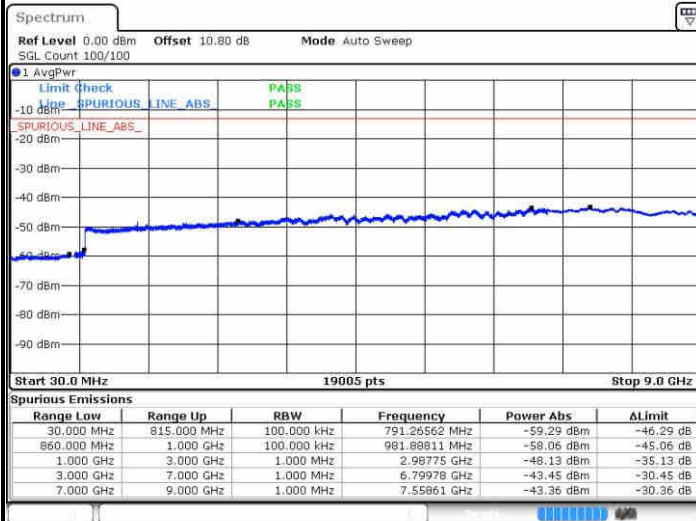
Date: 29 APR 2019 08:07:37

Middle Channel / 64QAM



Date: 29 APR 2019 08:08:13

Highest Channel / 64QAM

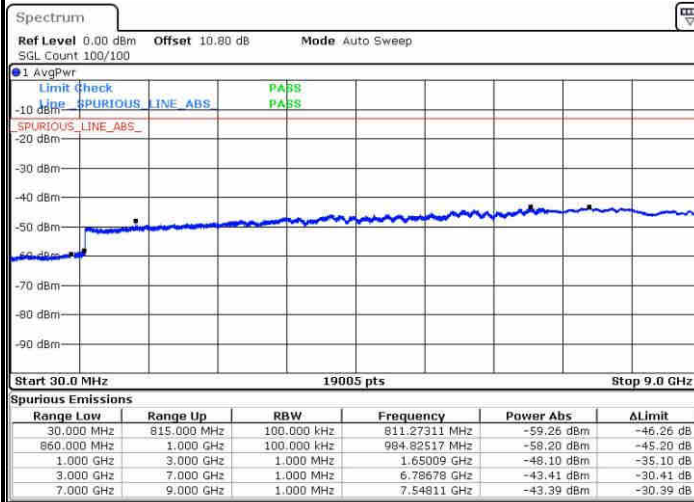


Date: 29 APR 2019 08:08:49



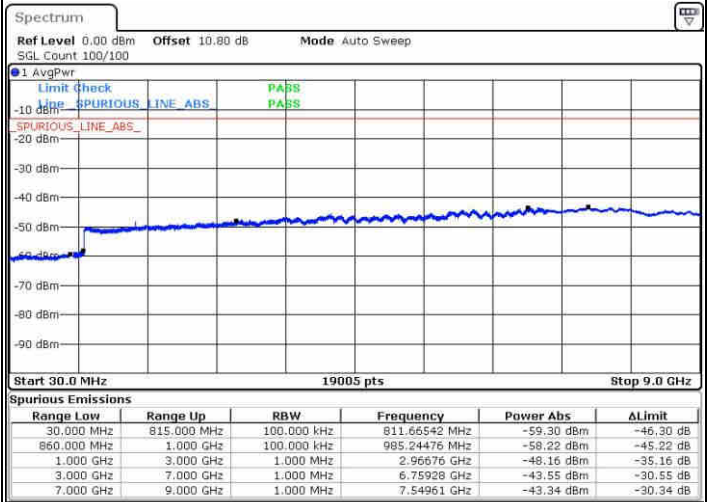
LTE Band 26 / 15MHz

Lowest Channel / 64QAM



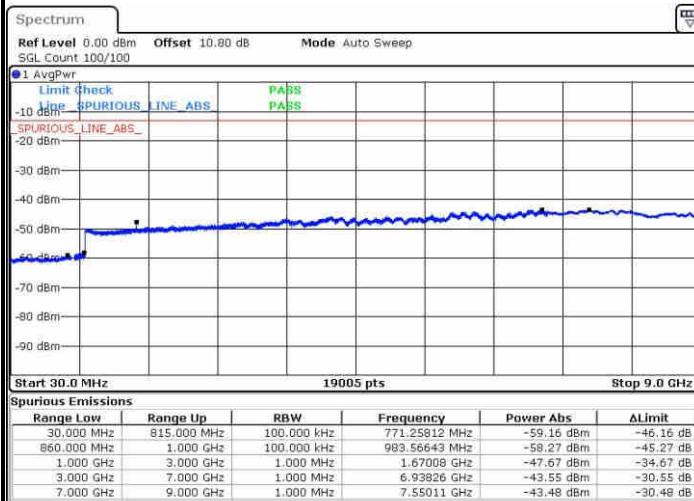
Date: 29 APR 2019 08:09:26

Middle Channel / 64QAM



Date: 29 APR 2019 08:10:02

Highest Channel / 64QAM



Date: 29 APR 2019 08:10:38

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0049	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0044	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0053	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0081	

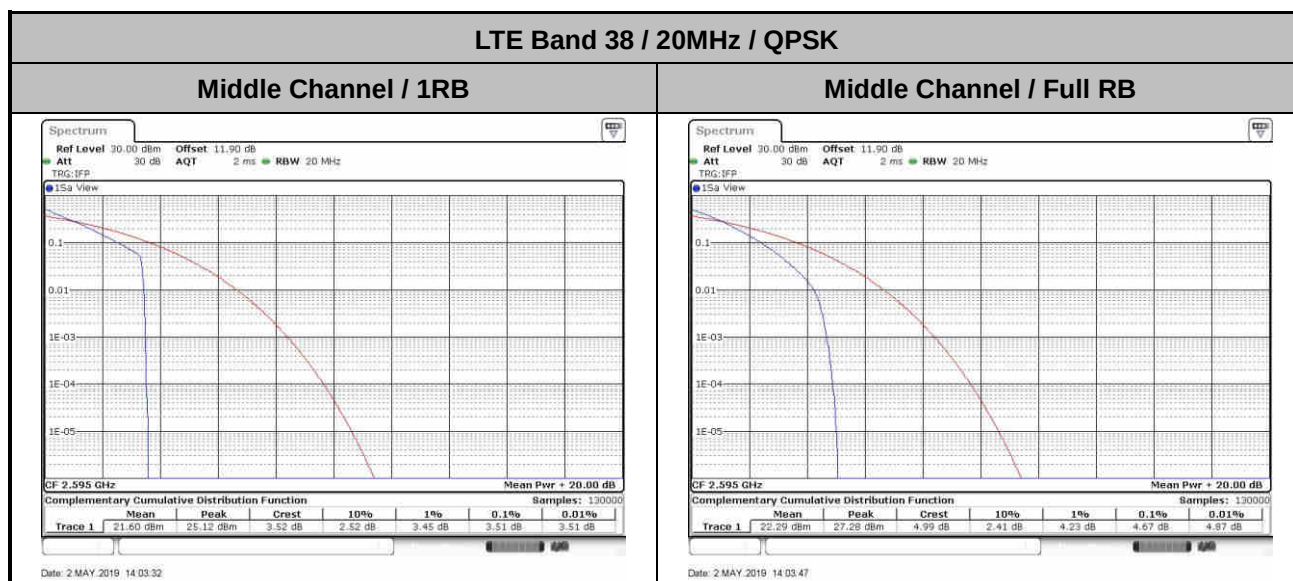
Note:

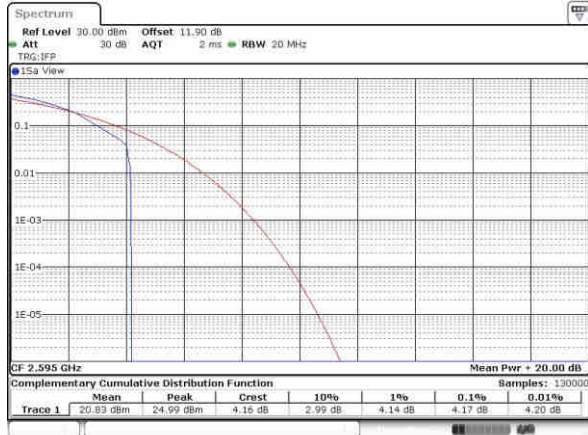
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 38

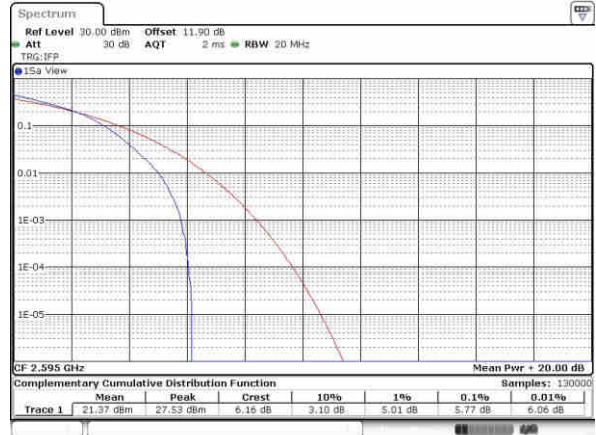
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.67	4.38	5.80	PASS
Middle CH	3.51	4.67	4.17	5.77	
Highest CH	3.65	4.70	4.23	5.74	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.99	6.41	-	-	PASS
Middle CH	5.30	6.46	-	-	
Highest CH	5.07	6.52	-	-	

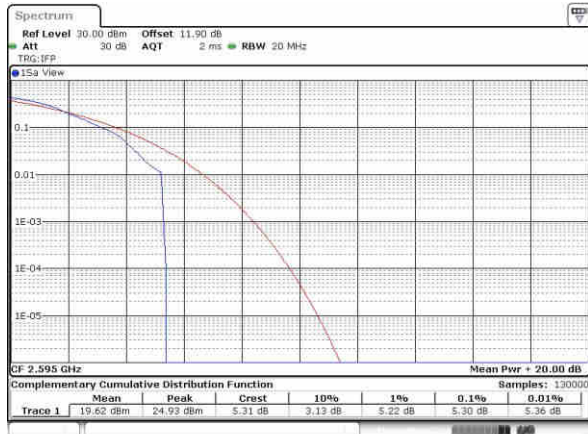


LTE Band 38 / 20MHz / 16QAM
Middle Channel / 1RB


Date: 2 MAY 2019 14:01:22

Middle Channel / Full RB


Date: 2 MAY 2019 14:01:46

LTE Band 38 / 20MHz / 64QAM
Middle Channel / 1RB


Date: 2 MAY 2019 13:58:00

Middle Channel / Full RB


Date: 2 MAY 2019 13:58:14

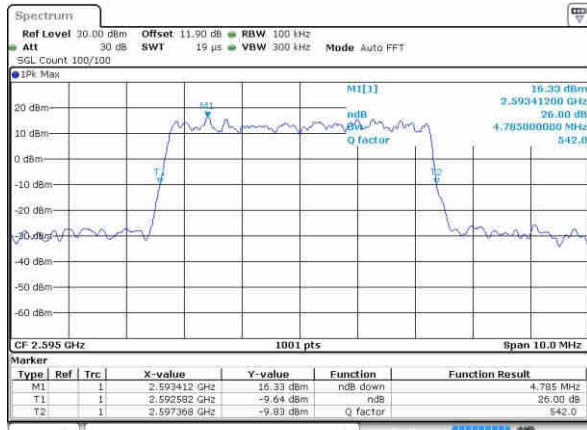
**26dB Bandwidth**

Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.78	4.86	9.63	9.63	14.30	14.27	19.34	18.66
Middle CH	-	-	-	-	4.79	4.82	9.61	9.61	14.33	14.24	18.66	18.70
Highest CH	-	-	-	-	4.86	4.82	9.67	9.71	14.15	14.12	18.82	18.94
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.82	-	9.77	-	14.12	-	18.98	-
Middle CH	-	-	-	-	4.72	-	9.69	-	14.15	-	18.78	-
Highest CH	-	-	-	-	4.88	-	9.75	-	14.60	-	18.74	-



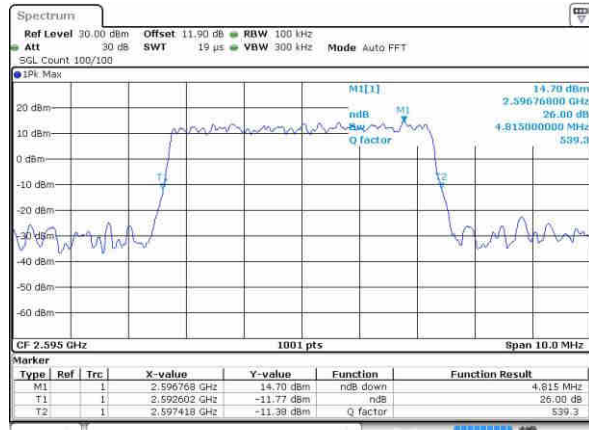
LTE Band 38

Middle Channel / 5MHz / QPSK



Date: 2 MAY 2019 13:44:51

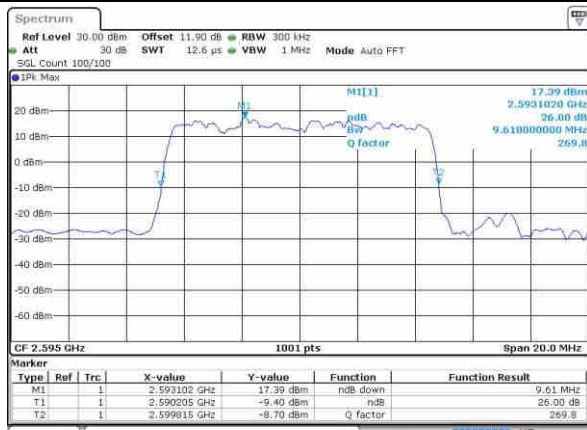
Middle Channel / 5MHz / 16QAM



Date: 2 MAY 2019 13:45:03

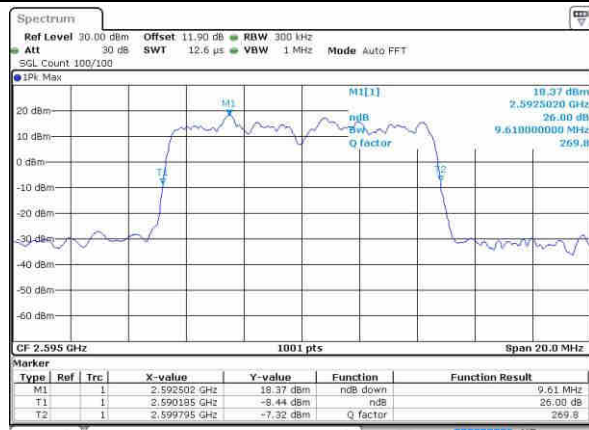
LTE Band 38

Middle Channel / 10MHz / QPSK



Date: 2 MAY 2019 13:47:16

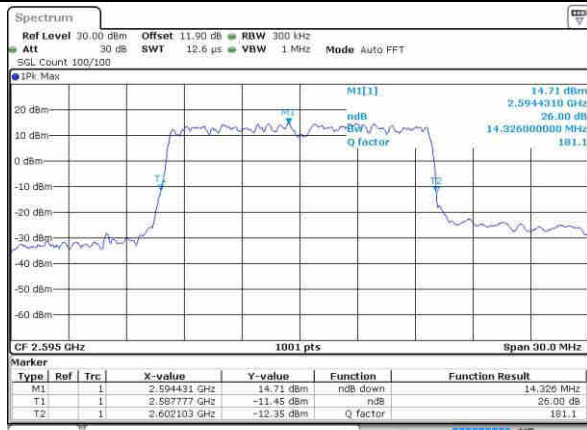
Middle Channel / 10MHz / 16QAM



Date: 2 MAY 2019 13:47:28

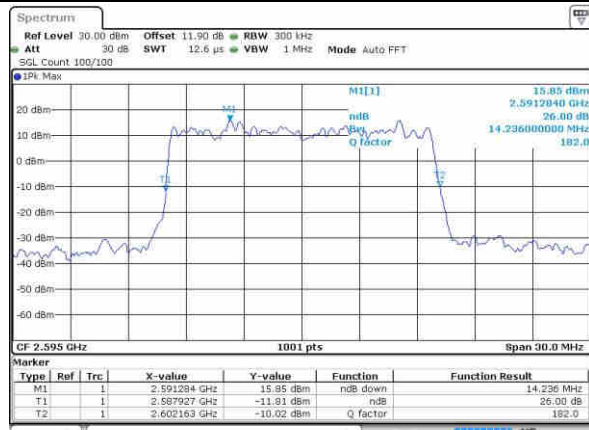
LTE Band 38

Middle Channel / 15MHz / QPSK



Date: 2 MAY 2019 13:49:41

Middle Channel / 15MHz / 16QAM

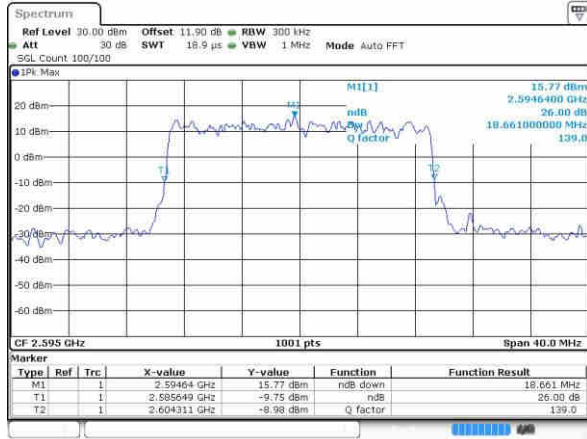


Date: 2 MAY 2019 13:49:53



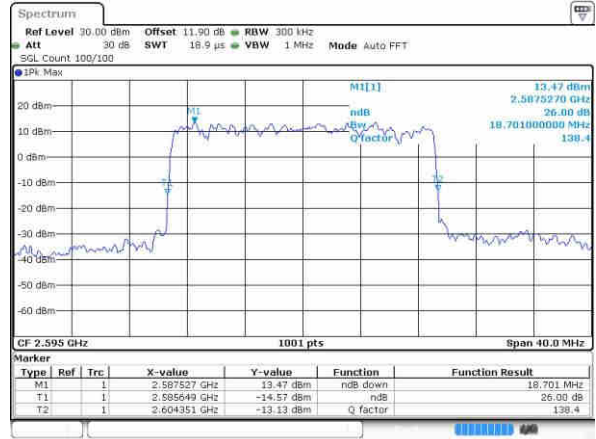
LTE Band 38

Middle Channel / 20MHz / QPSK



Date: 2 MAY 2019 13:52:06

Middle Channel / 20MHz / 16QAM

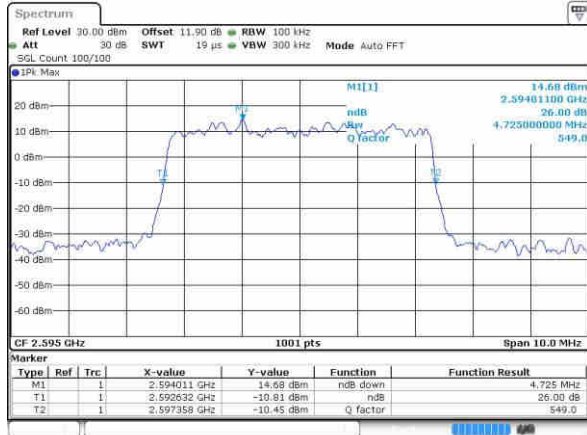


Date: 2 MAY 2019 13:52:17

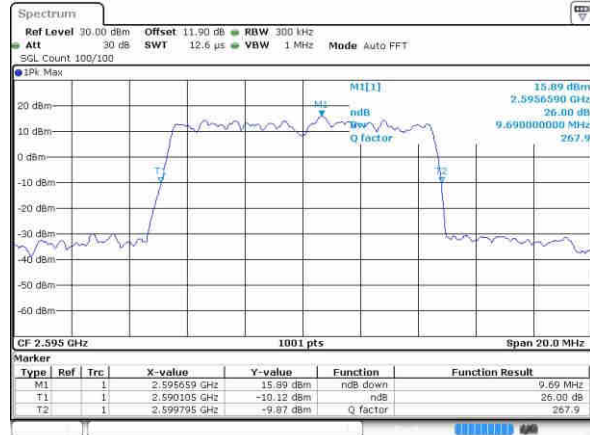


LTE Band 38

Middle Channel / 5MHz / 64QAM

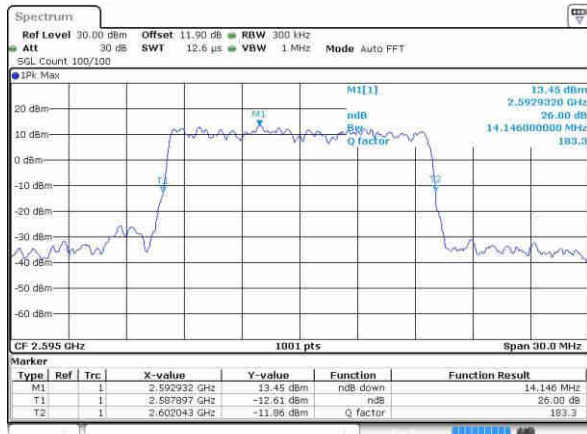


Middle Channel / 10MHz / 64QAM

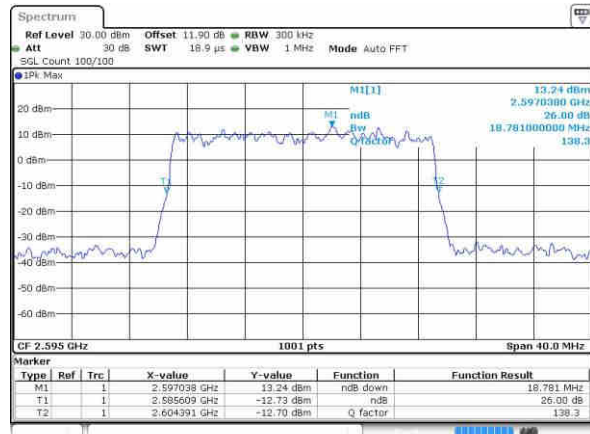


LTE Band 38

Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



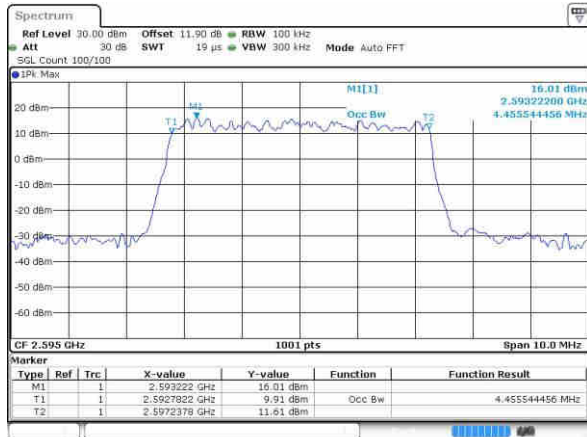
**Occupied Bandwidth**

Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50	8.99	9.03	13.52	13.43	17.86	17.78
Middle CH	-	-	-	-	4.46	4.46	9.01	9.05	13.37	13.46	17.94	17.86
Highest CH	-	-	-	-	4.48	4.48	8.97	9.07	13.34	13.43	17.94	17.78
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.03	-	13.46	-	17.82	-
Middle CH	-	-	-	-	4.48	-	8.95	-	13.46	-	17.86	-
Highest CH	-	-	-	-	4.50	-	9.03	-	13.40	-	17.98	-



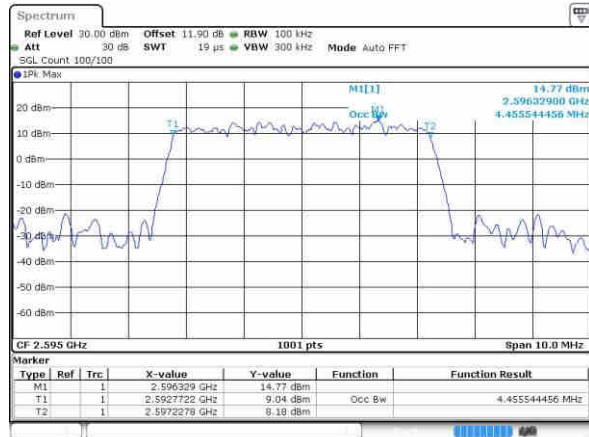
LTE Band 38

Middle Channel / 5MHz / QPSK



Date: 2 MAY 2019 13:44:28

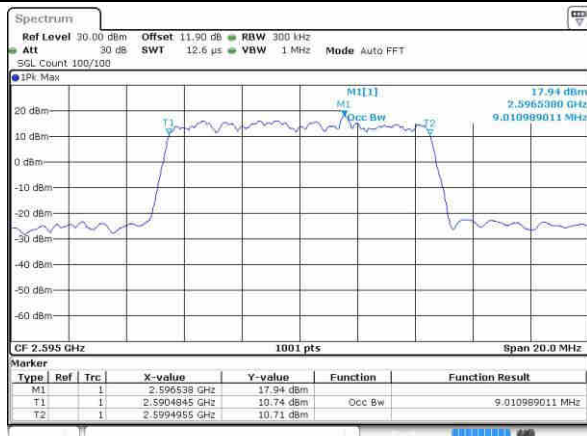
Middle Channel / 5MHz / 16QAM



Date: 2 MAY 2019 13:44:40

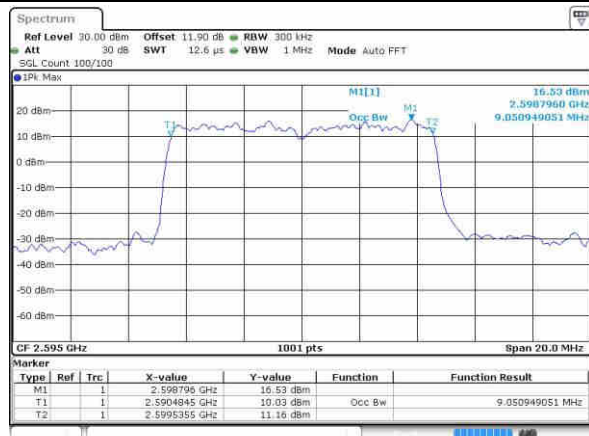
LTE Band 38

Middle Channel / 10MHz / QPSK



Date: 2 MAY 2019 13:48:53

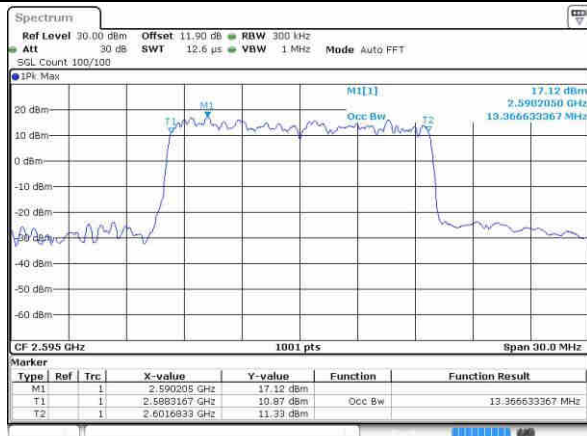
Middle Channel / 10MHz / 16QAM



Date: 2 MAY 2019 13:47:04

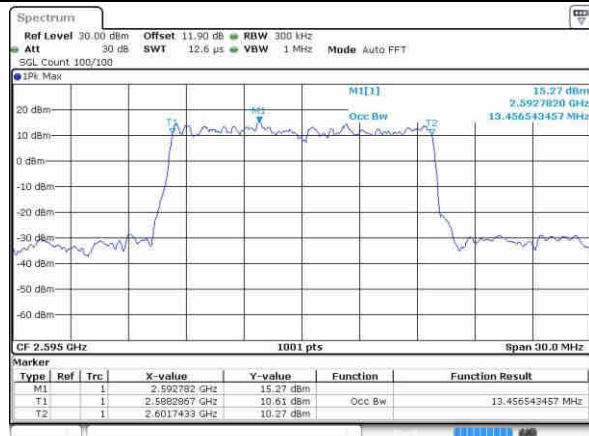
LTE Band 38

Middle Channel / 15MHz / QPSK



Date: 2 MAY 2019 13:49:18

Middle Channel / 15MHz / 16QAM

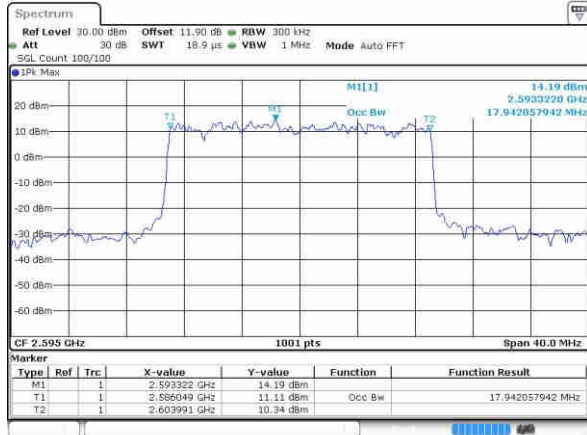


Date: 2 MAY 2019 13:49:29



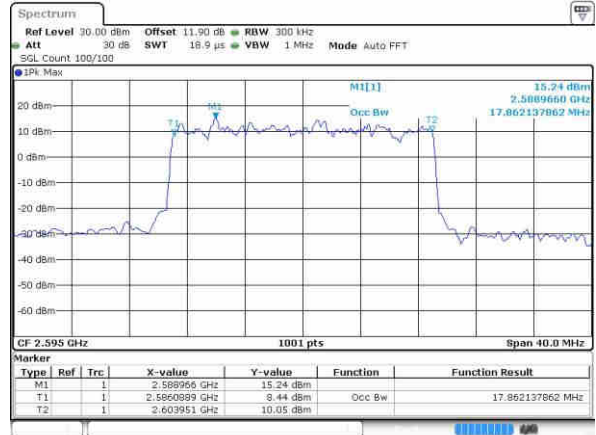
LTE Band 38

Middle Channel / 20MHz / QPSK



Date: 2 MAY 2019 13:51:43

Middle Channel / 20MHz / 16QAM

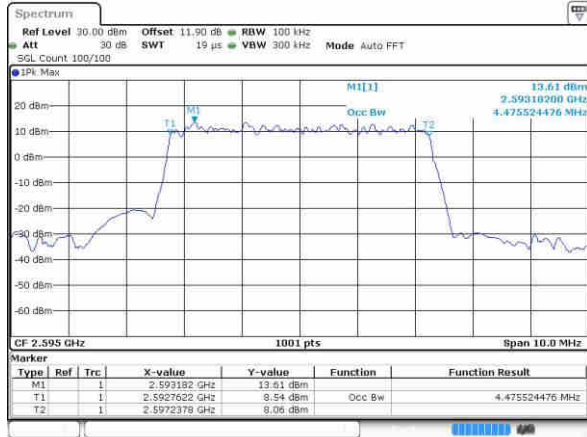


Date: 2 MAY 2019 13:51:54

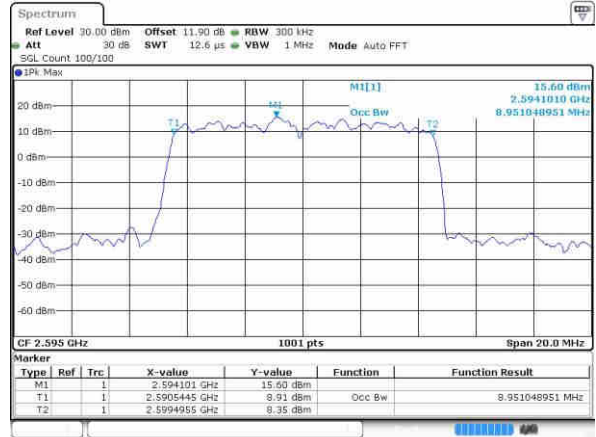


LTE Band 38

Middle Channel / 5MHz / 64QAM

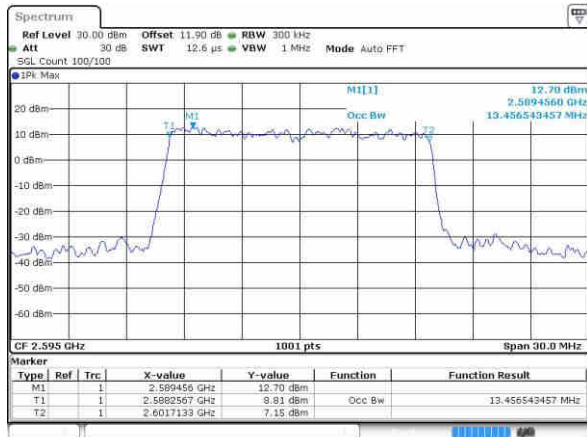


Middle Channel / 10MHz / 64QAM

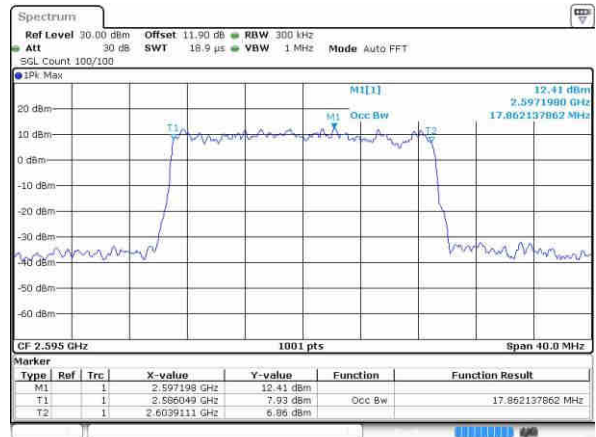


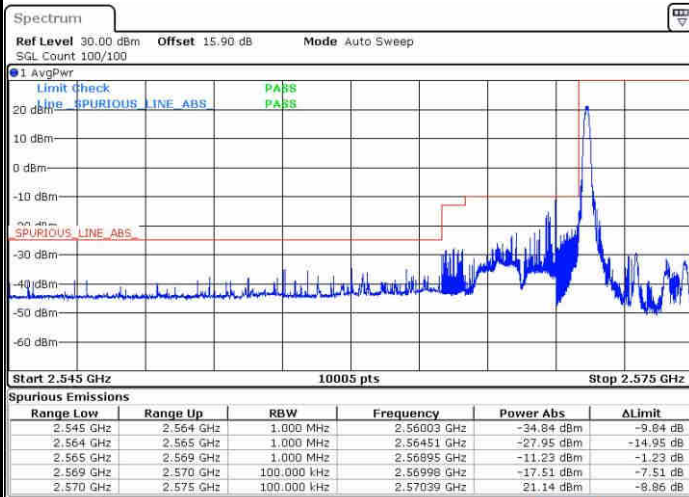
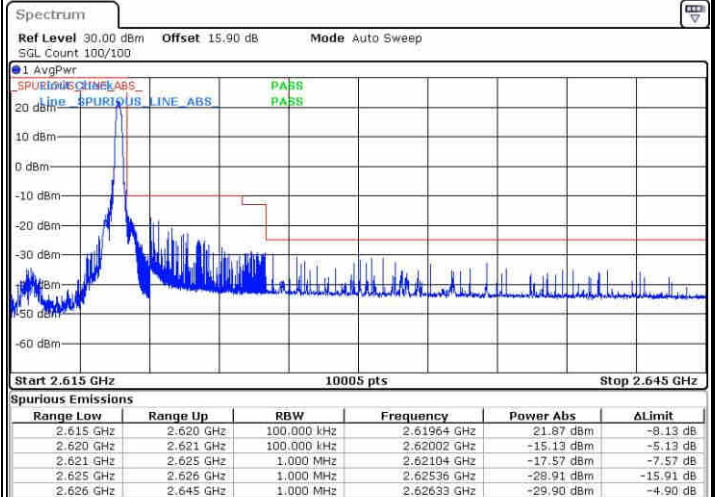
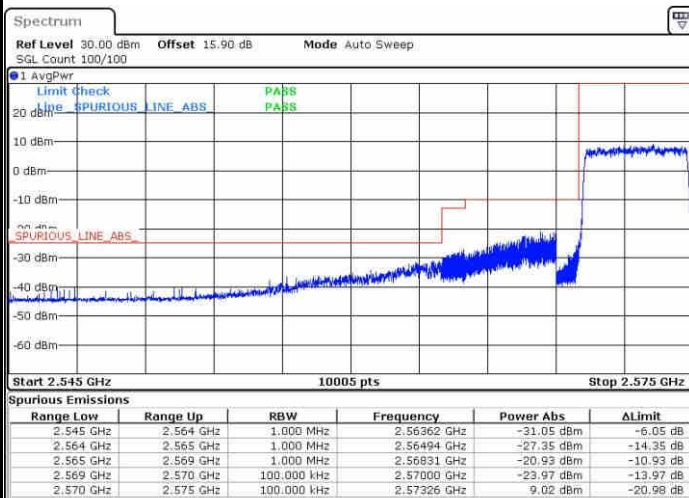
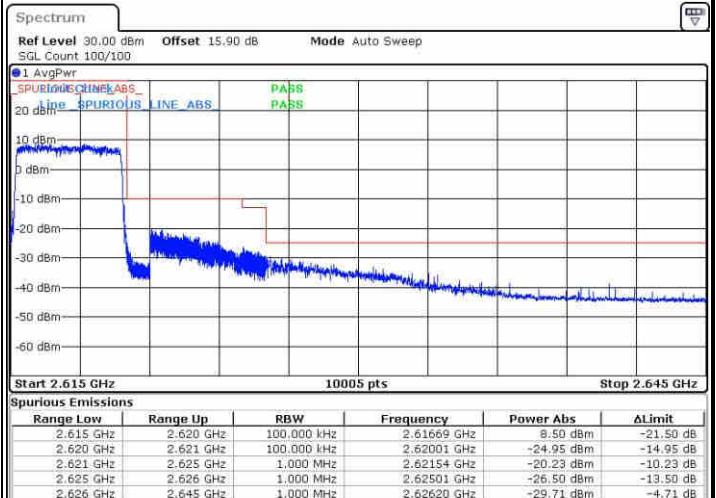
LTE Band 38

Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

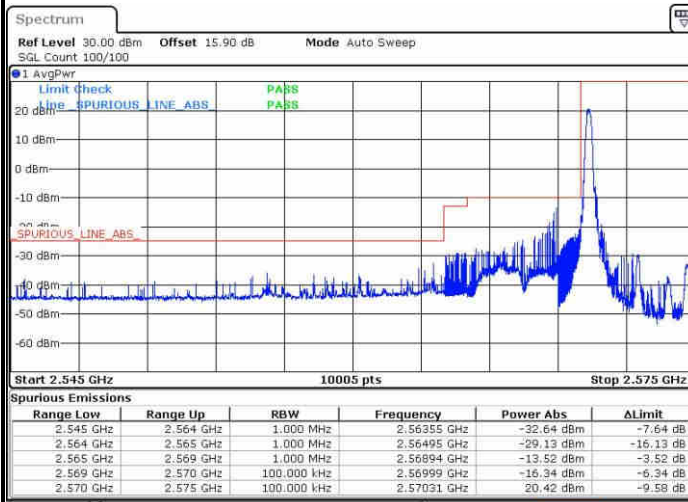


**Conducted Band Edge****LTE Band 38 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

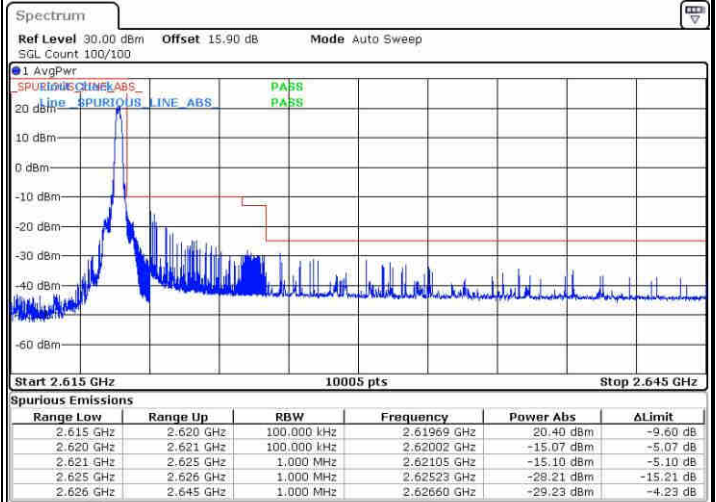


LTE Band 38 / 5MHz / 16QAM

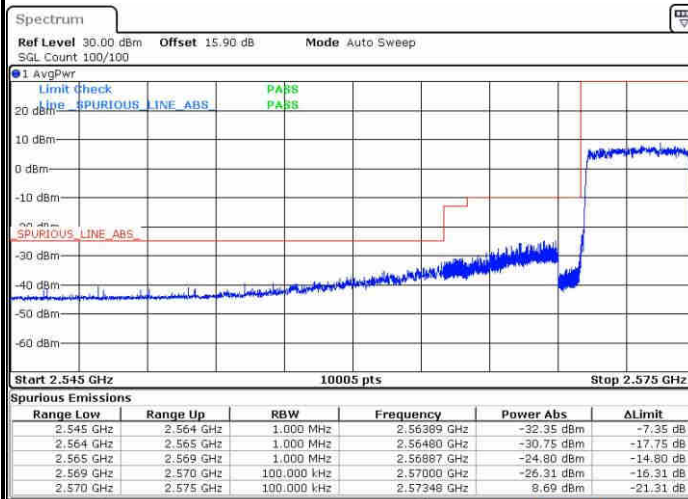
Lowest Band Edge / 1RB



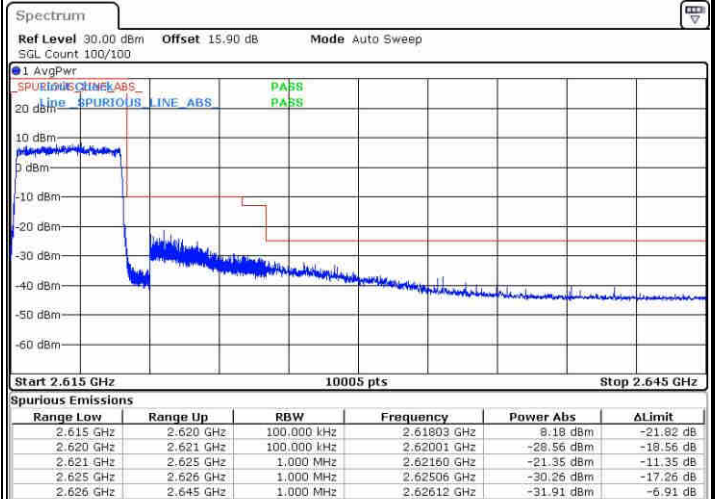
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



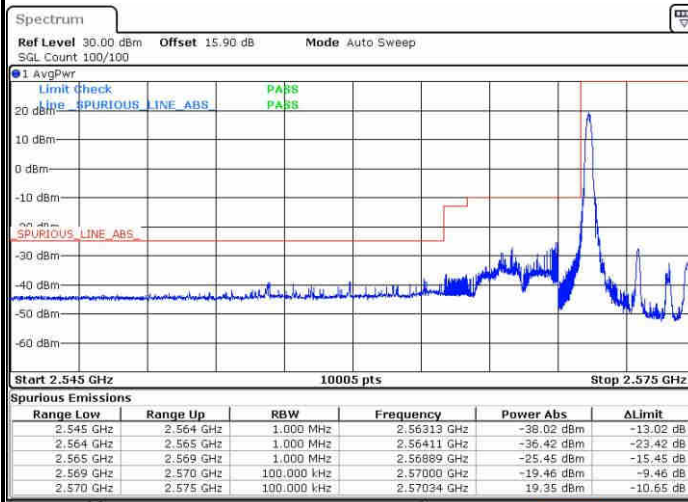
Highest Band Edge / Full RB



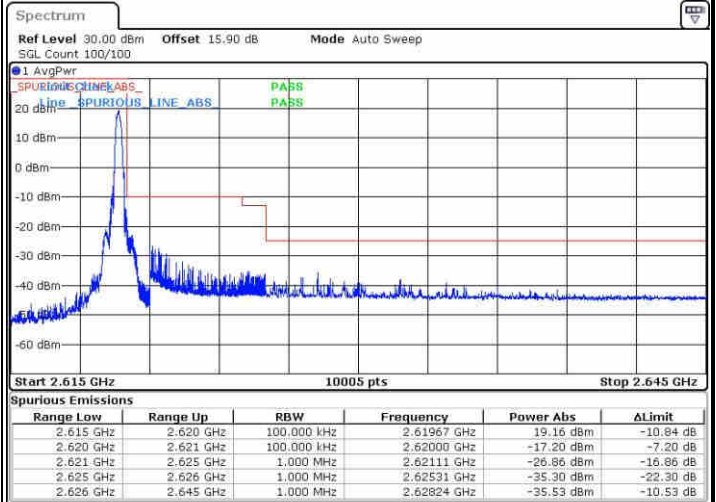


LTE Band 38 / 5MHz / 64QAM

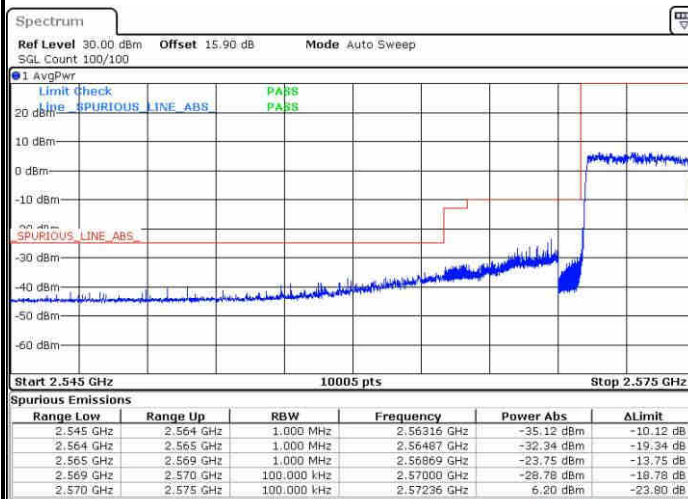
Lowest Band Edge / 1RB



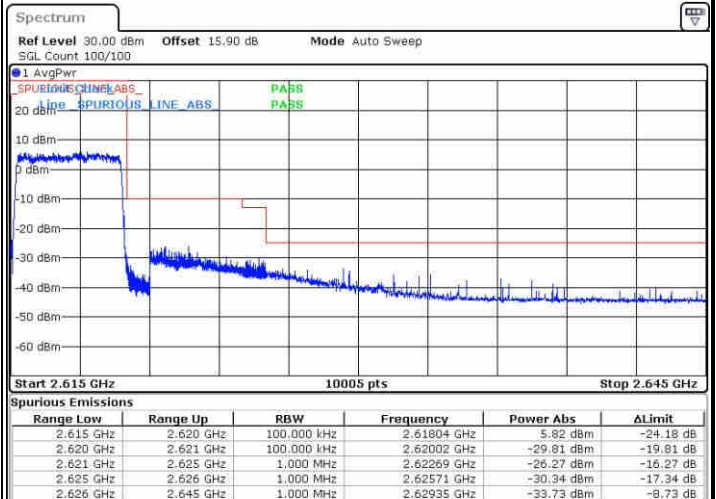
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



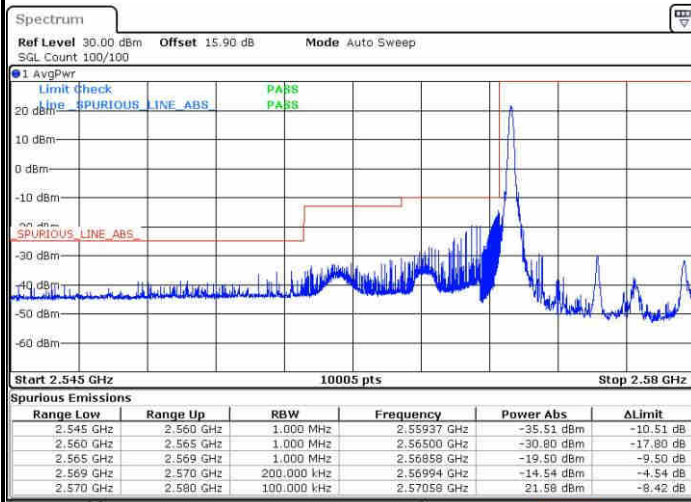
Highest Band Edge / Full RB



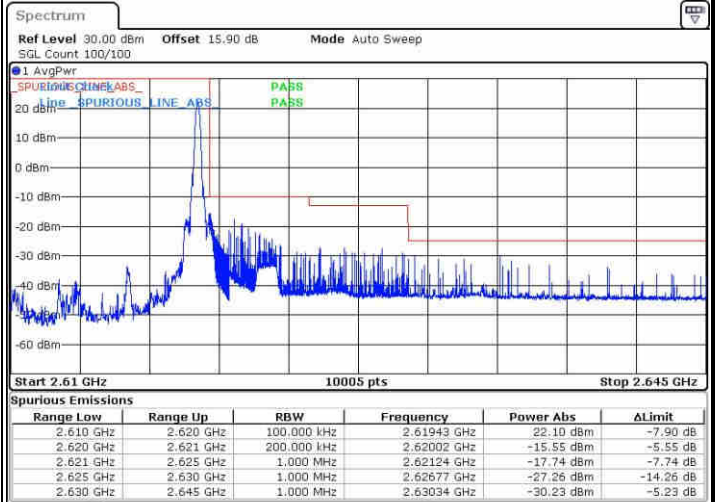


LTE Band 38 / 10MHz / QPSK

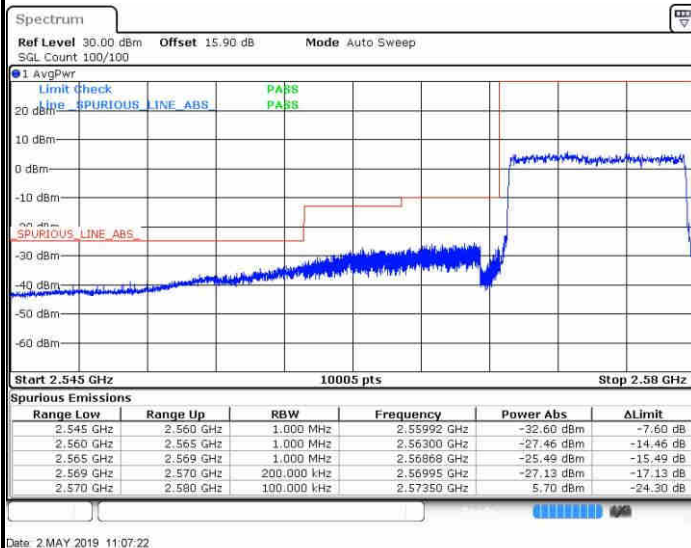
Lowest Band Edge / 1 RB



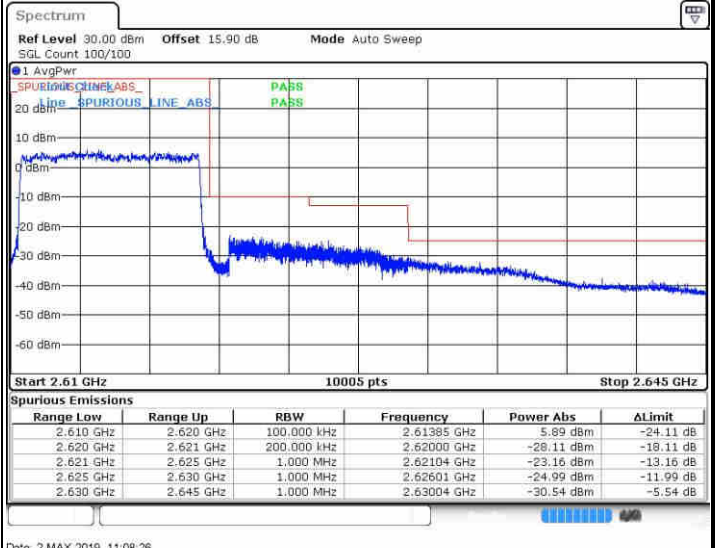
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



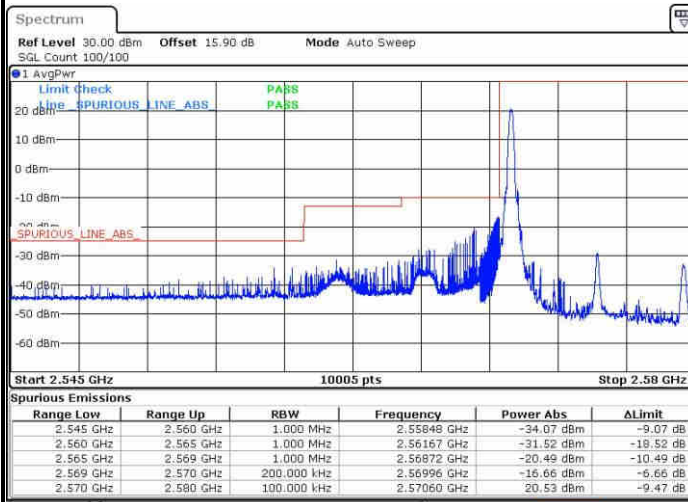
Highest Band Edge / Full RB



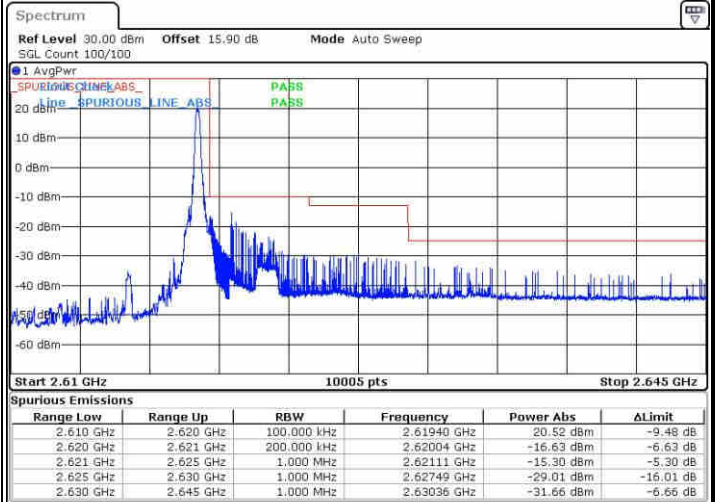


LTE Band 38 / 10MHz / 16QAM

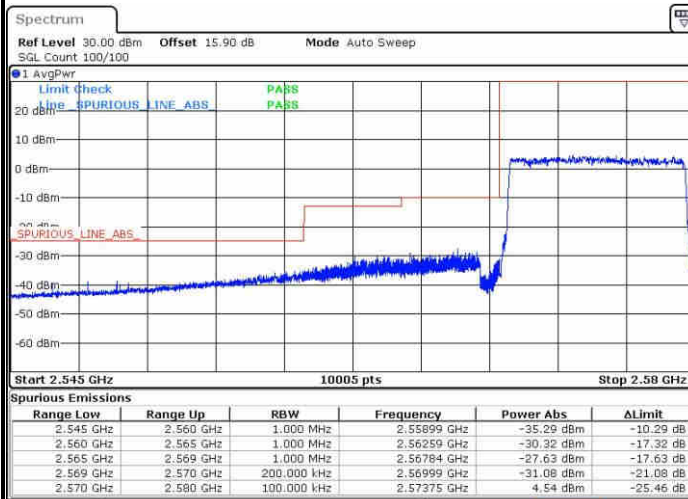
Lowest Band Edge / 1 RB



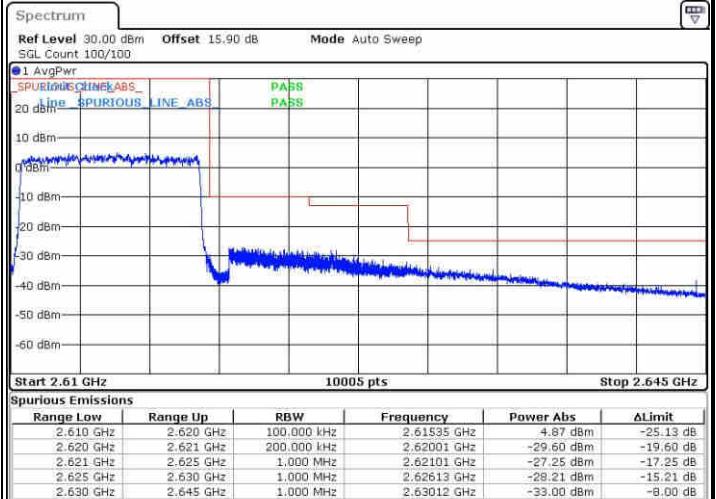
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



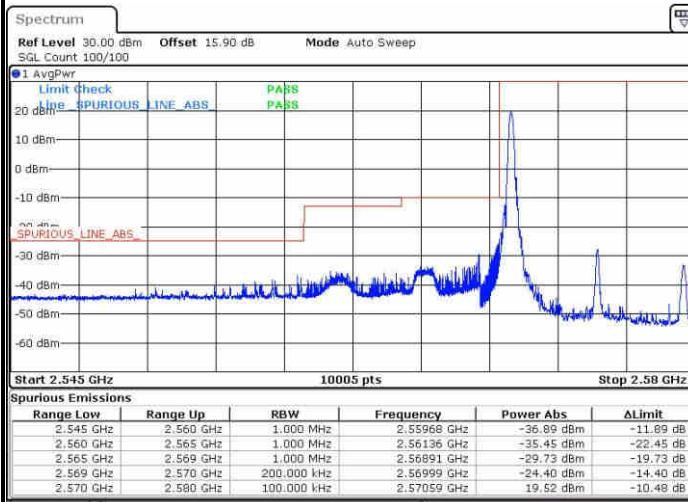
Highest Band Edge / Full RB



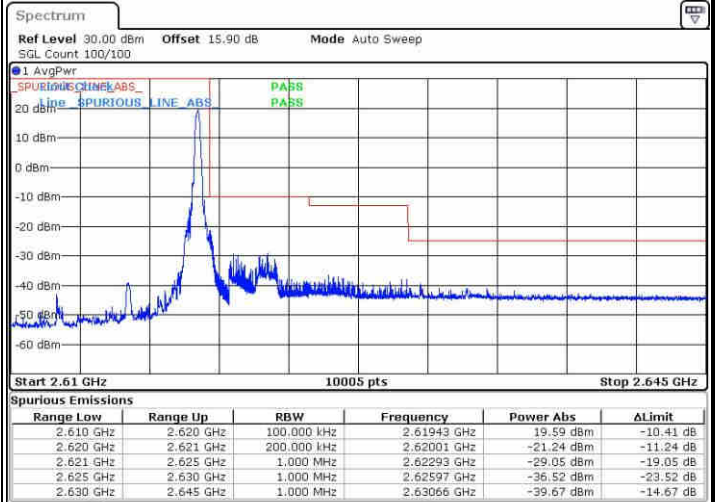


LTE Band 38 / 10MHz / 64QAM

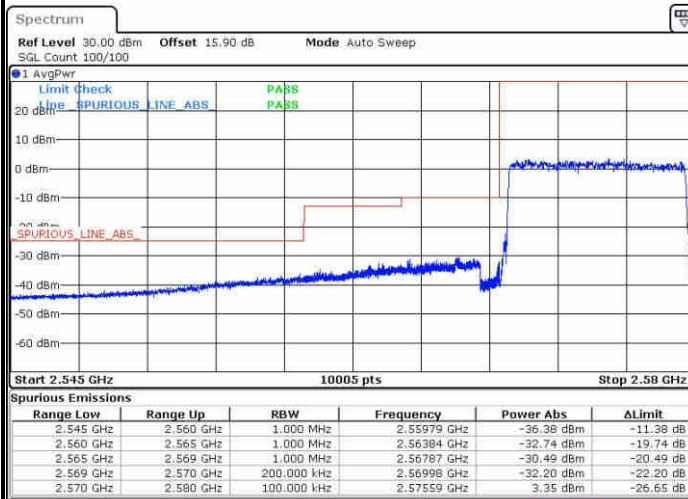
Lowest Band Edge / 1 RB



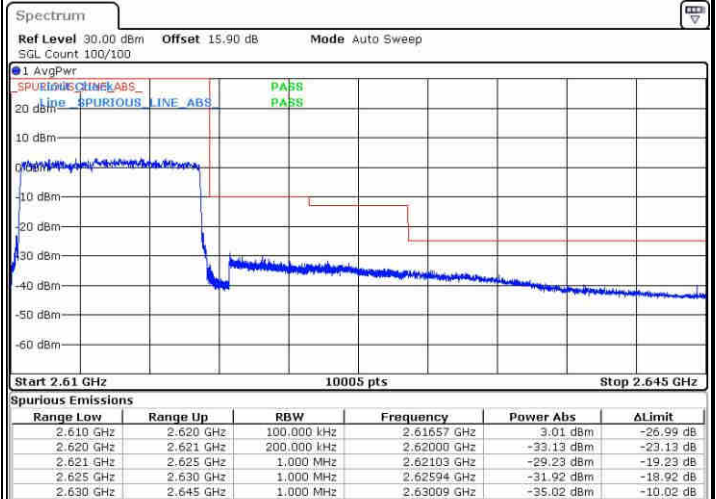
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



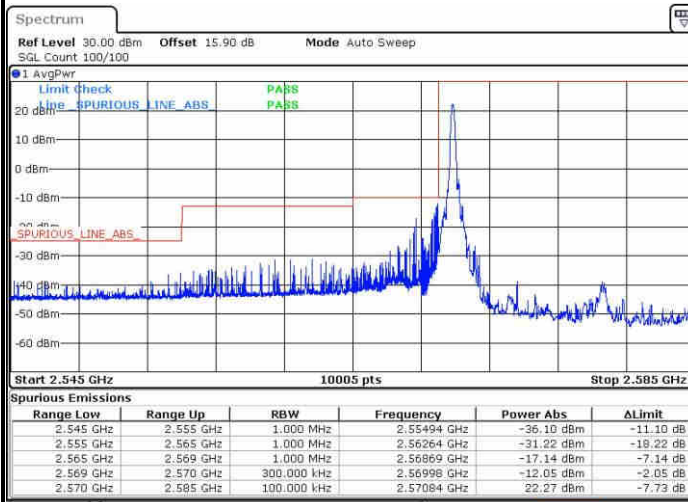
Highest Band Edge / Full RB



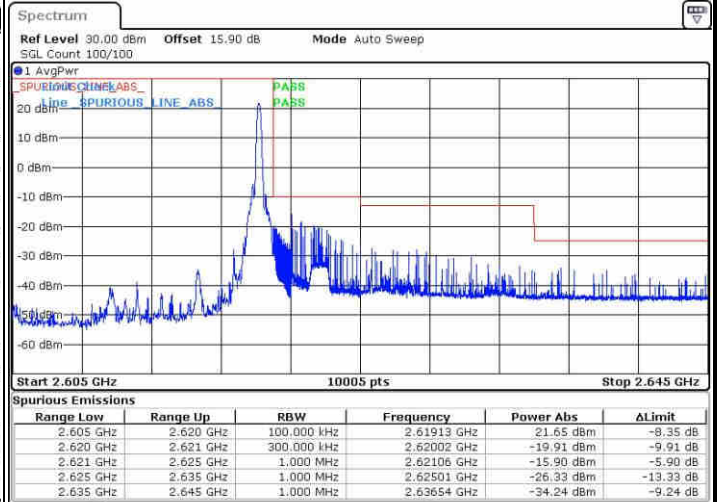


LTE Band 38 / 15MHz / QPSK

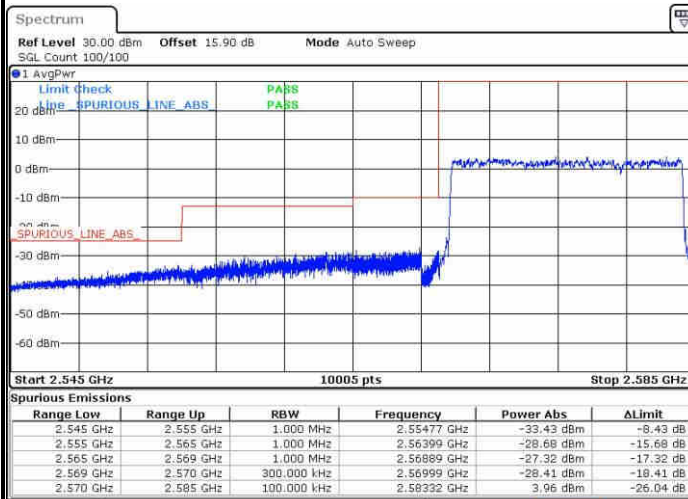
Lowest Band Edge / 1 RB



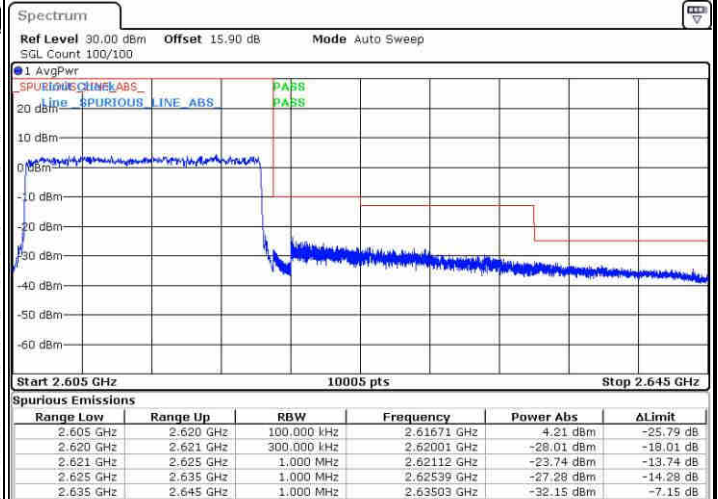
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



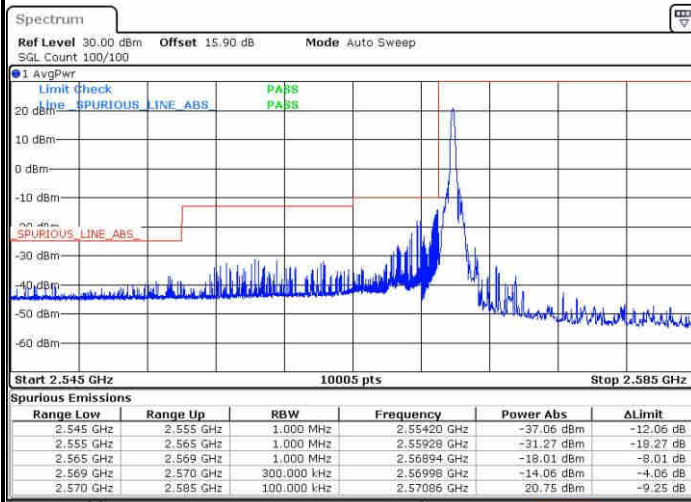
Highest Band Edge / Full RB



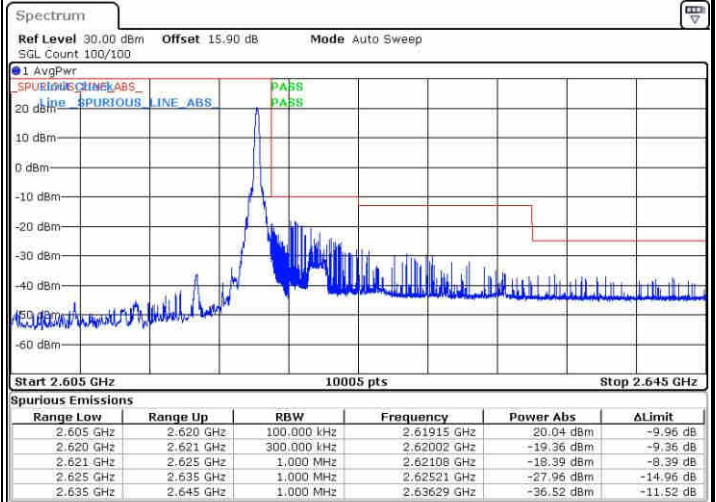


LTE Band 38 / 15MHz / 16QAM

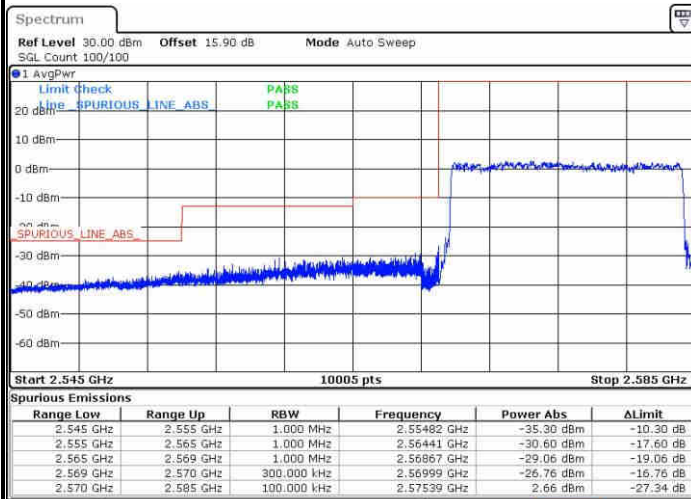
Lowest Band Edge / 1 RB



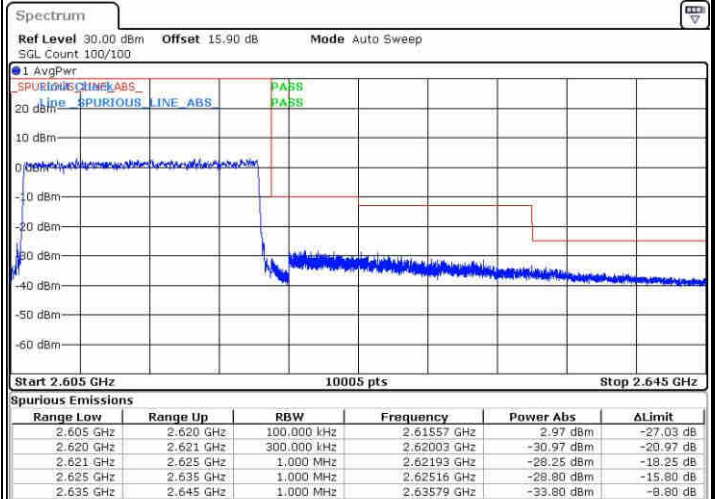
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



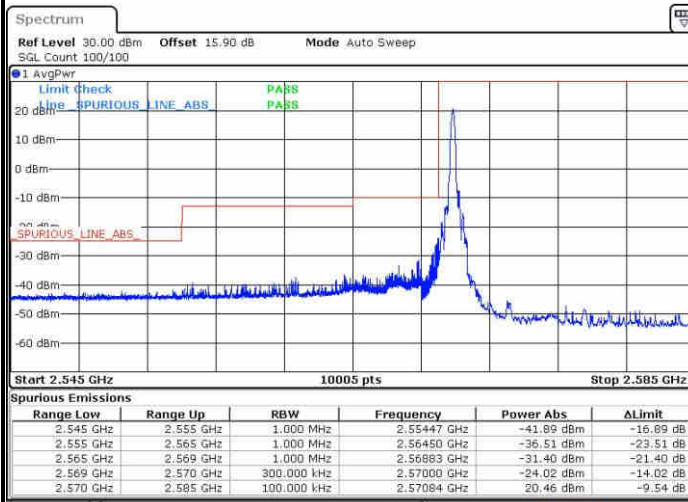
Highest Band Edge / Full RB



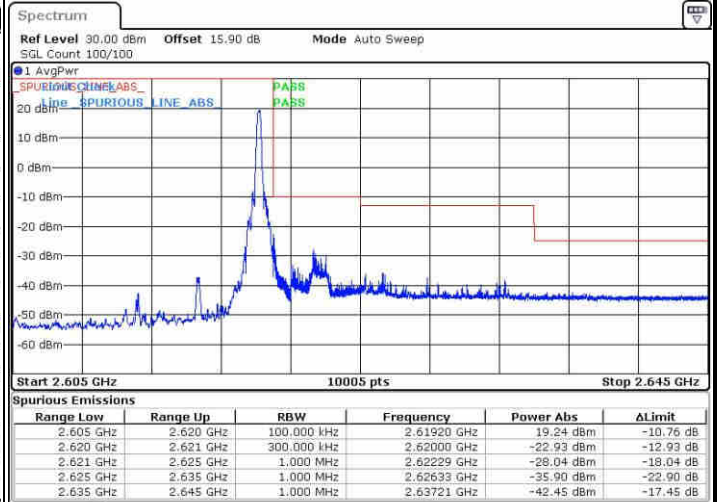


LTE Band 38 / 15MHz / 64QAM

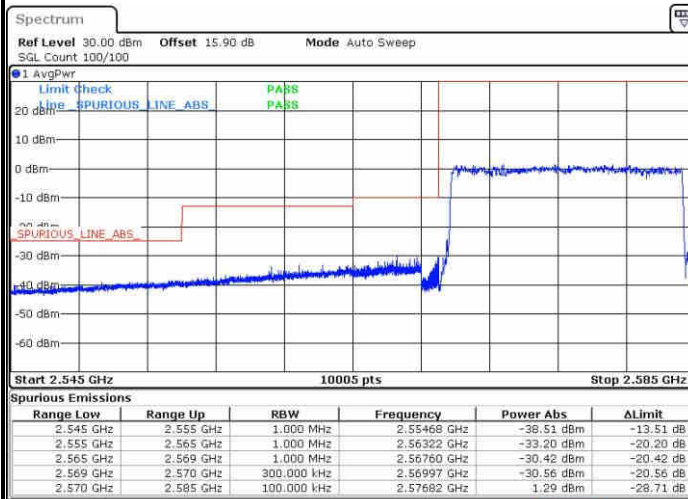
Lowest Band Edge / 1 RB



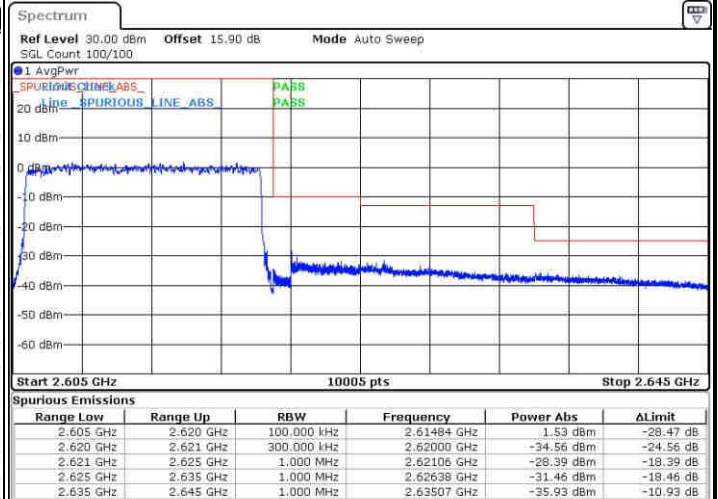
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



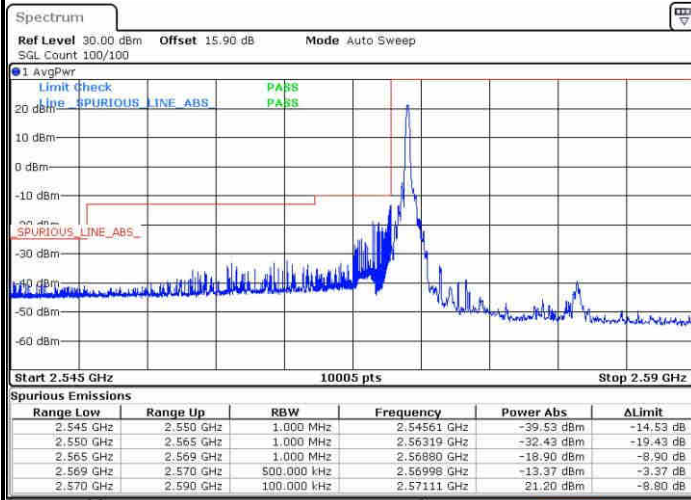
Highest Band Edge / Full RB





LTE Band 38 / 20MHz / QPSK

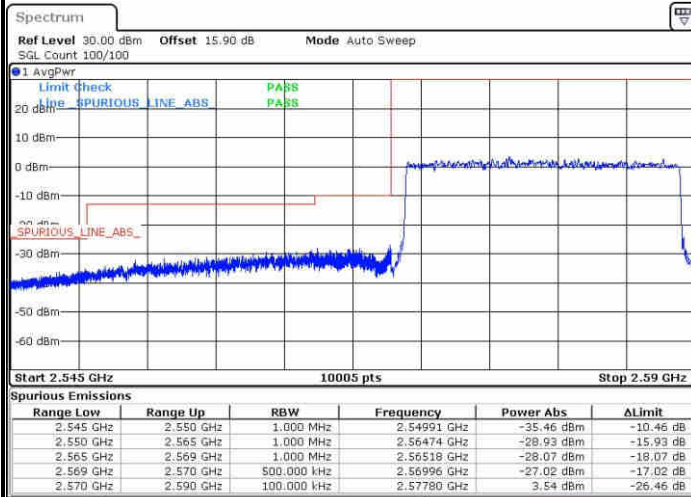
Lowest Band Edge / 1 RB



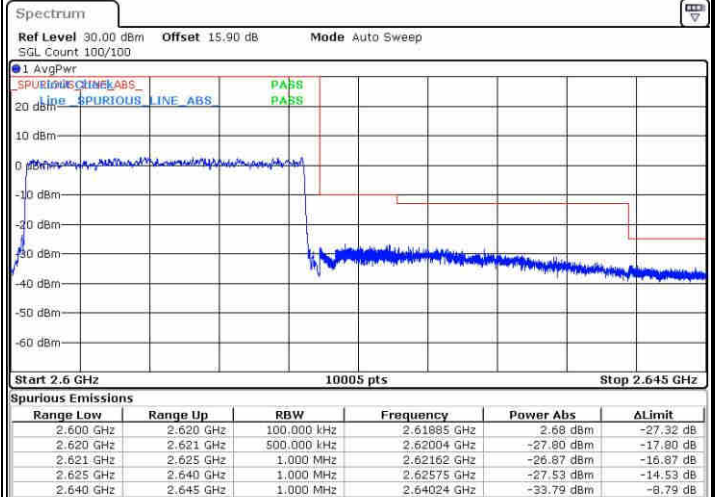
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



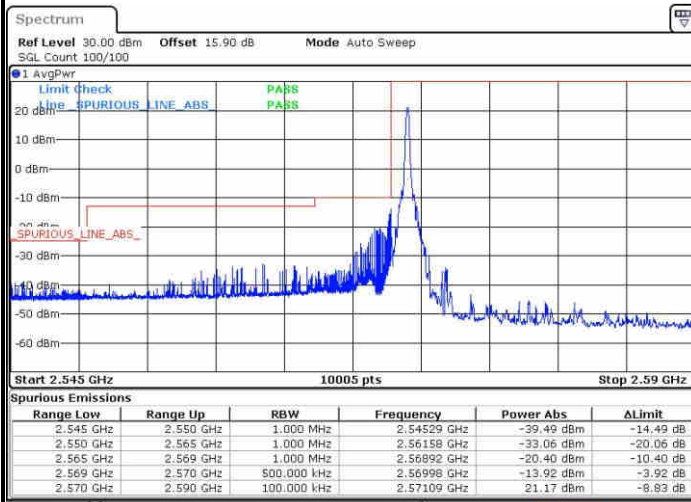
Highest Band Edge / Full RB



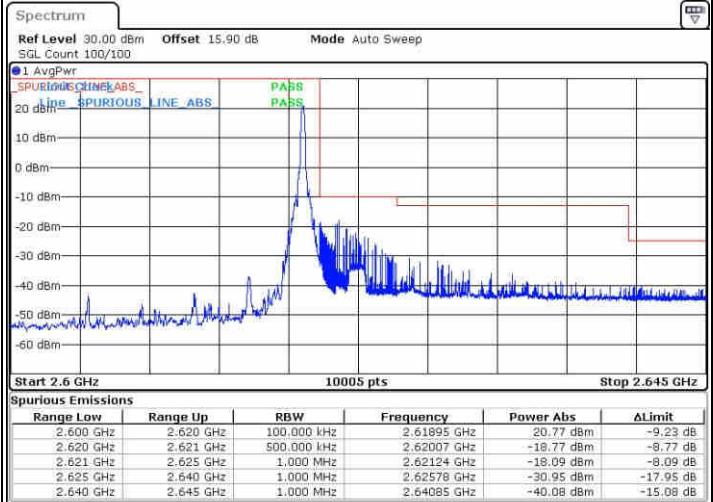


LTE Band 38 / 20MHz / 16QAM

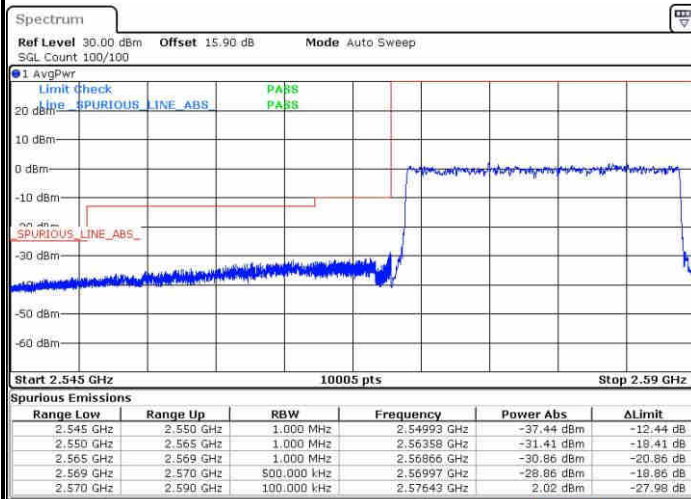
Lowest Band Edge / 1 RB



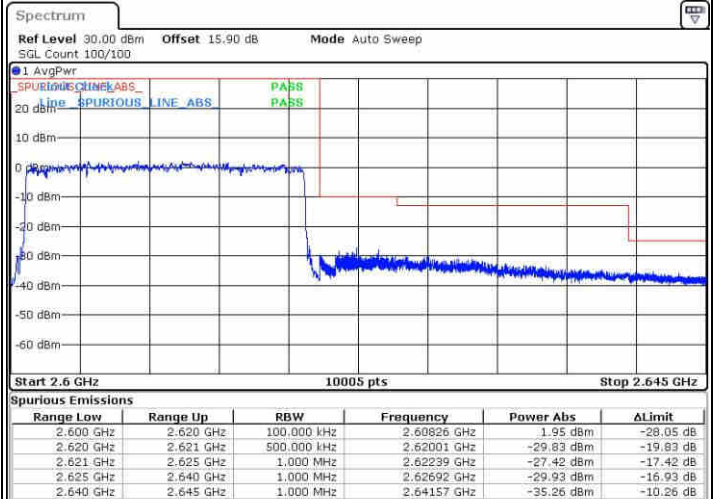
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



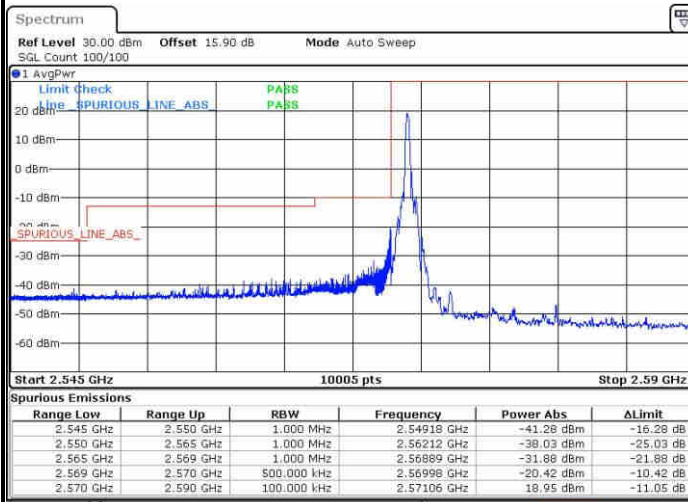
Highest Band Edge / Full RB



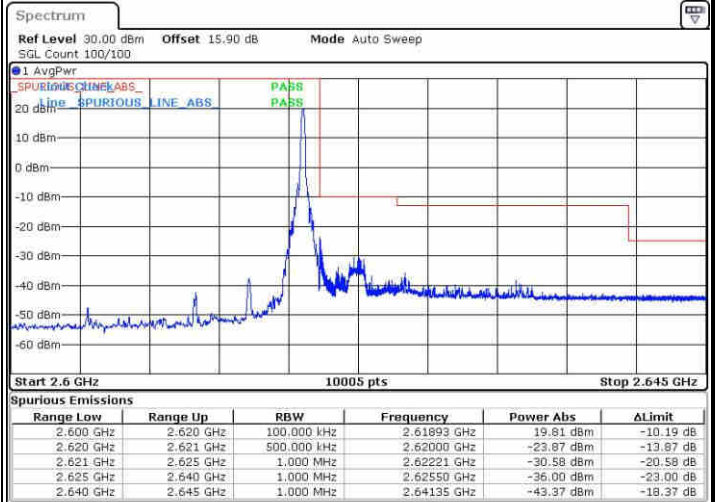


LTE Band 38 / 20MHz / 64QAM

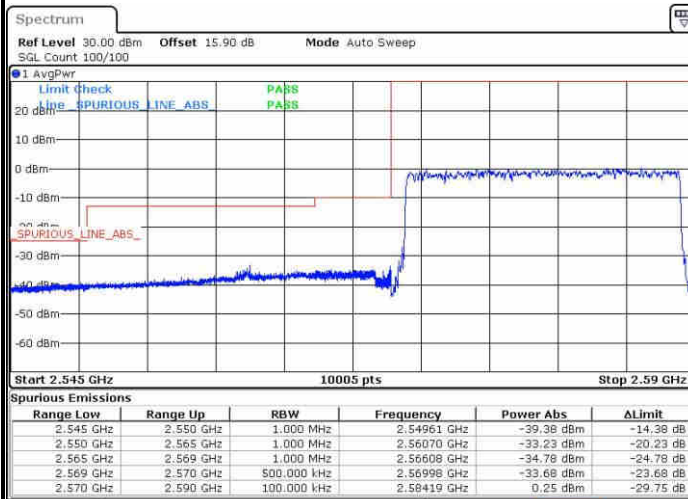
Lowest Band Edge / 1 RB



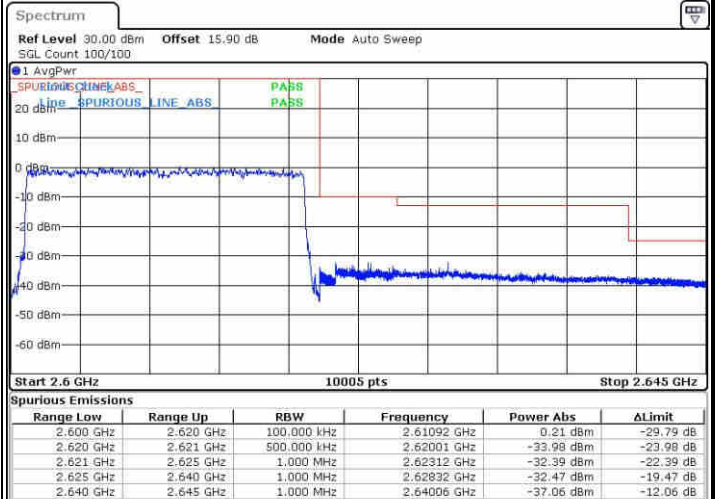
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

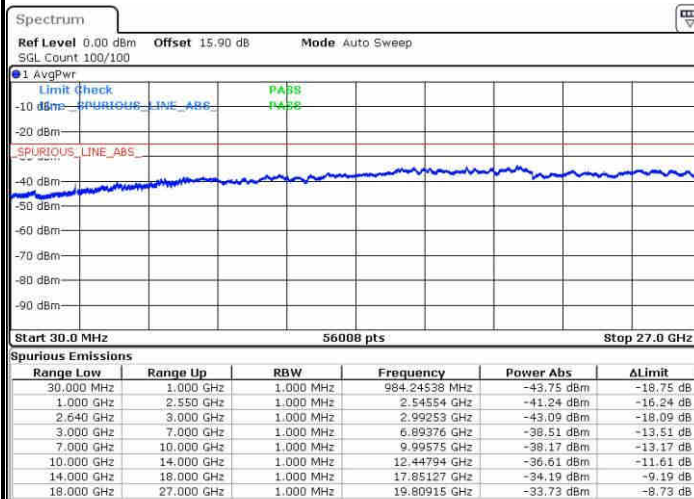




Conducted Spurious Emission

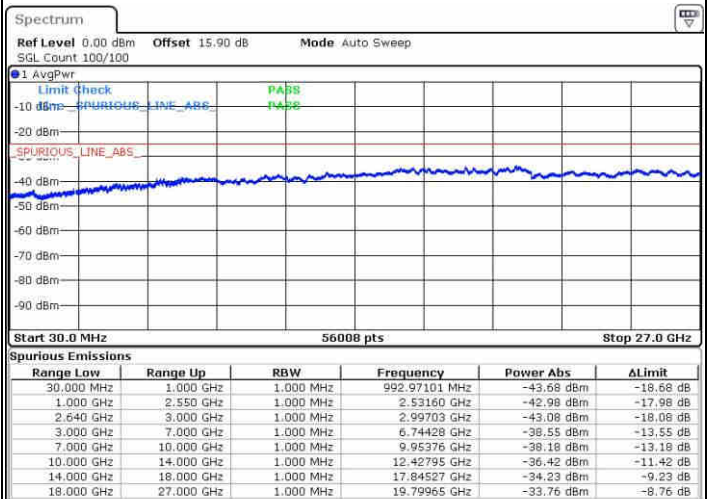
LTE Band 38 / 5MHz

Lowest Channel / QPSK



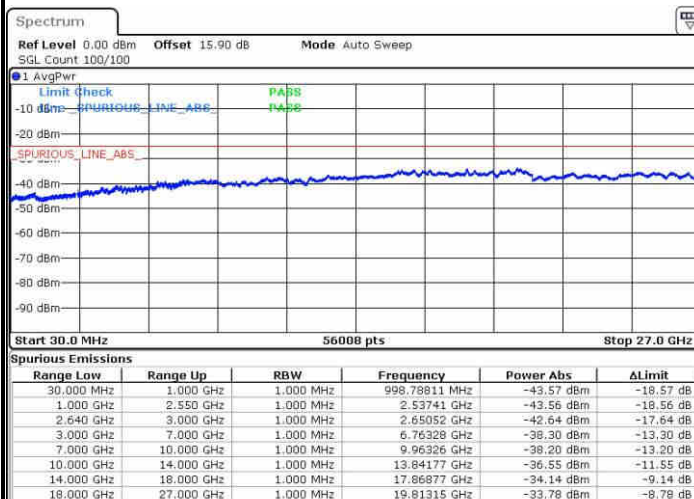
Date: 2 MAY 2019 14:55:28

Lowest Channel / 16QAM



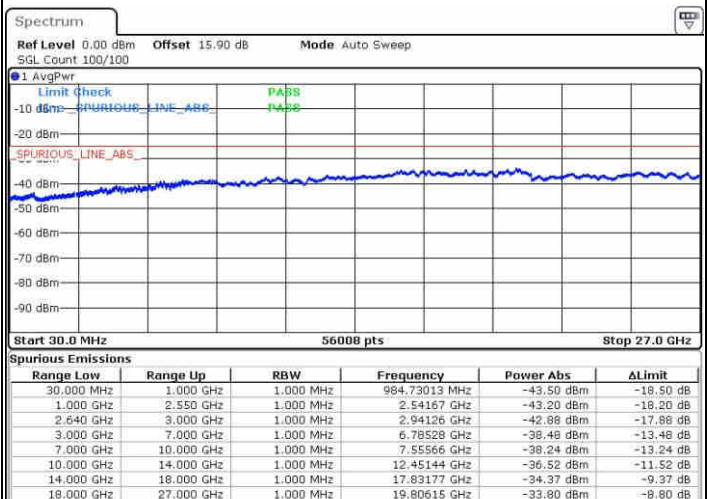
Date: 2 MAY 2019 14:56:14

Middle Channel / QPSK



Date: 2 MAY 2019 14:57:00

Middle Channel / 16QAM

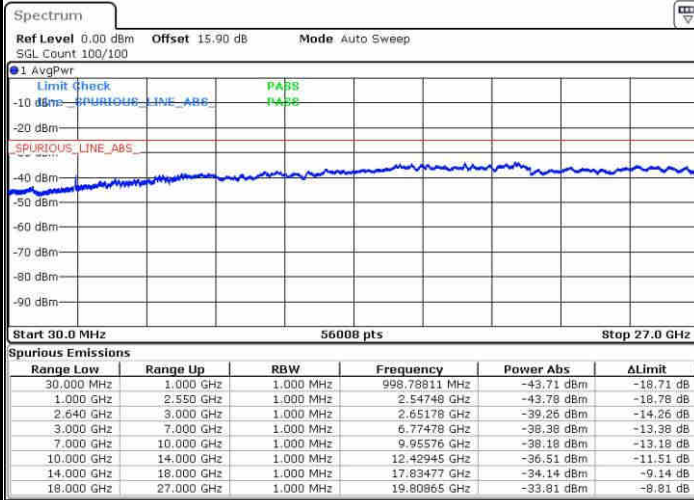


Date: 2 MAY 2019 14:57:45



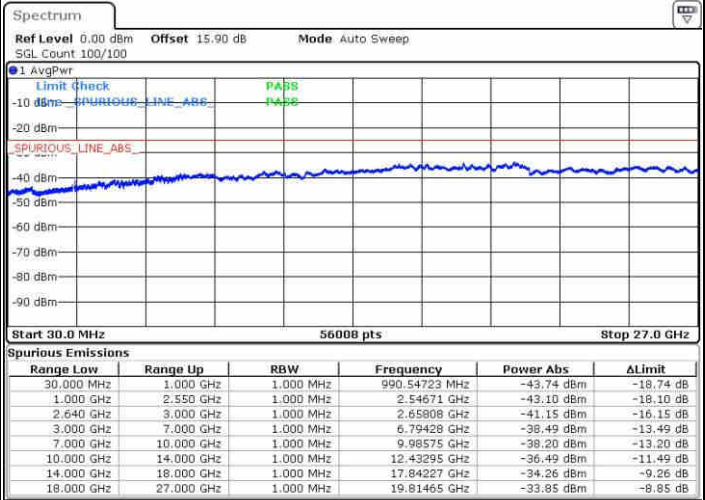
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 2 MAY 2019 14:58:31

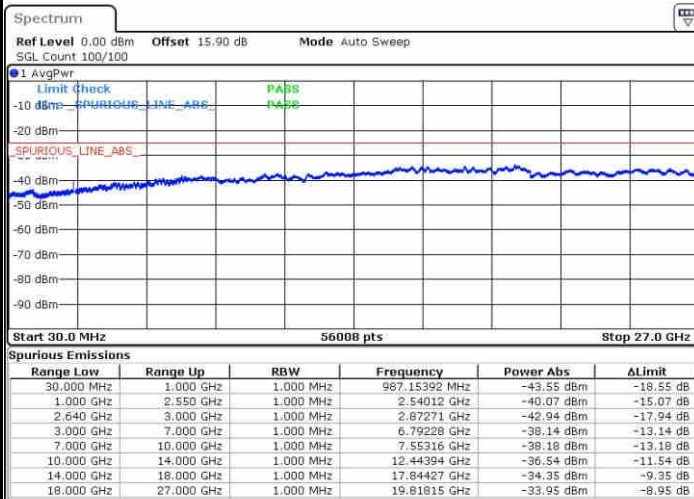
Highest Channel / 16QAM



Date: 2 MAY 2019 14:59:17

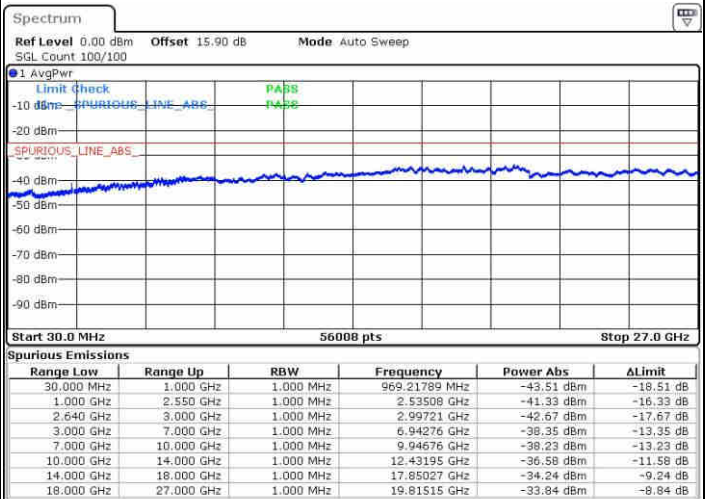
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 2 MAY 2019 15:02:21

Lowest Channel / 16QAM

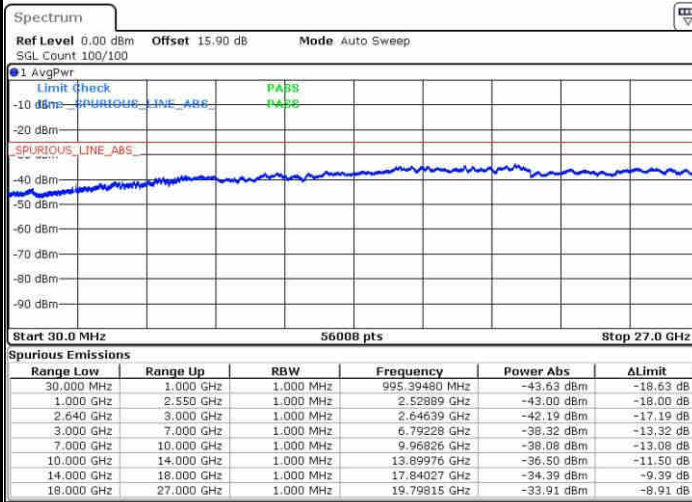


Date: 2 MAY 2019 15:03:07



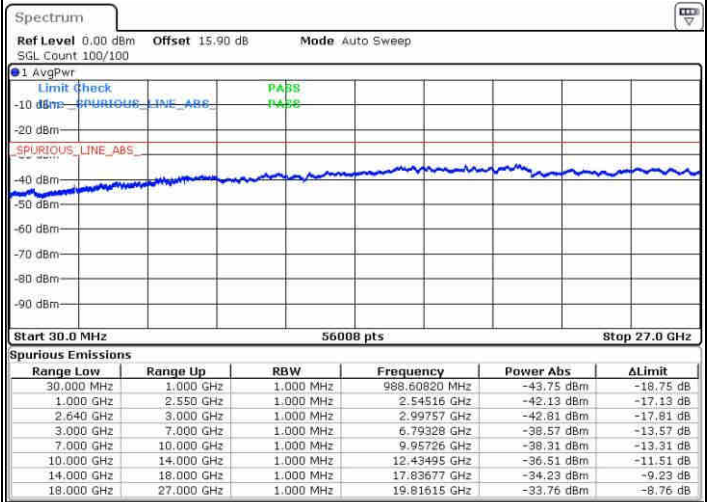
LTE Band 38 / 10MHz

Middle Channel / QPSK



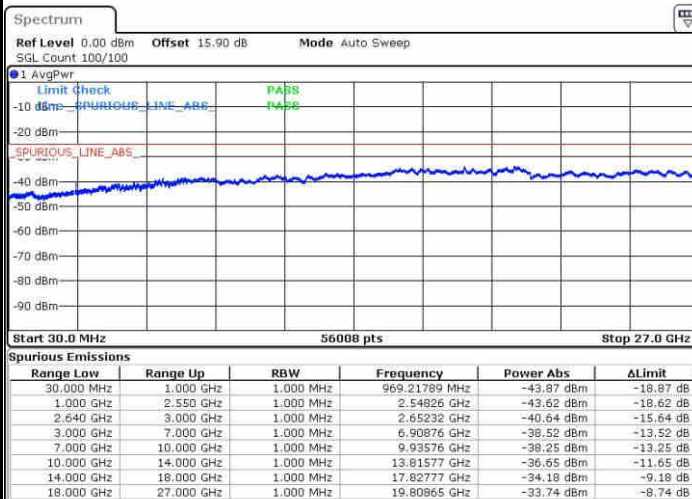
Date: 2 MAY 2019 15:03:53

Middle Channel / 16QAM



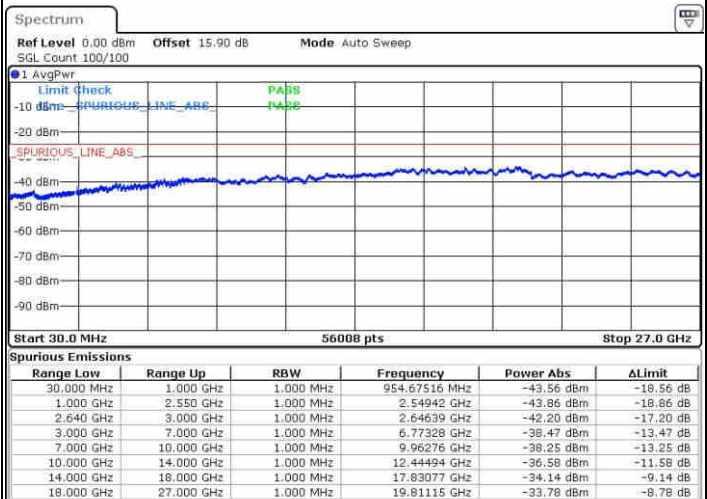
Date: 2 MAY 2019 15:04:38

Highest Channel / QPSK



Date: 2 MAY 2019 15:05:24

Highest Channel / 16QAM

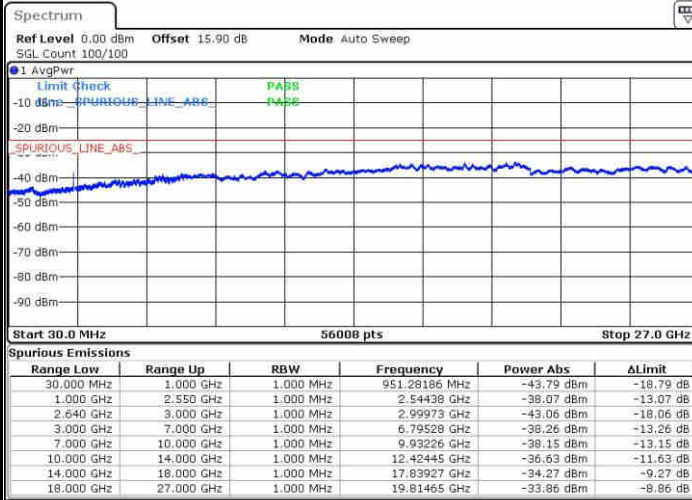


Date: 2 MAY 2019 15:06:10



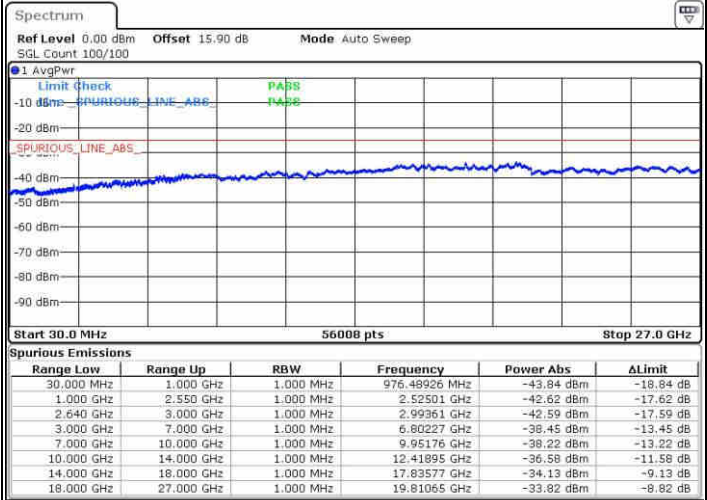
LTE Band 38 / 15MHz

Lowest Channel / QPSK



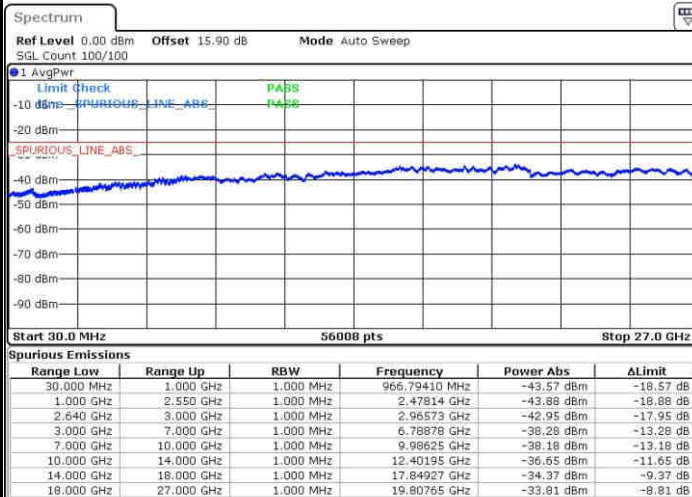
Date: 2 MAY 2019 15:08:56

Lowest Channel / 16QAM



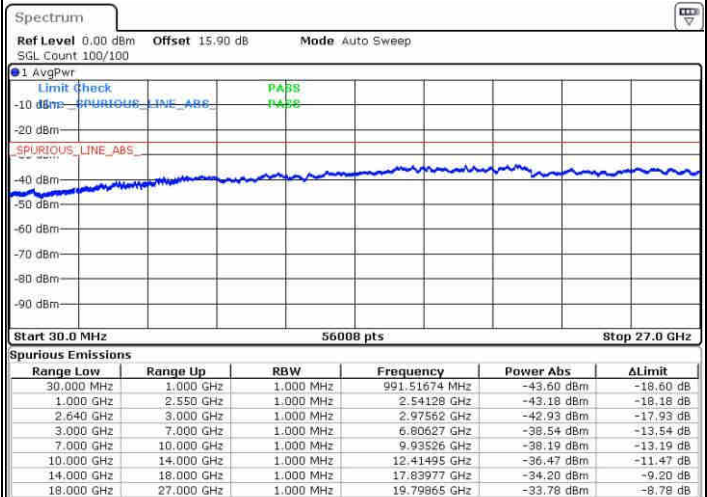
Date: 2 MAY 2019 15:07:42

Middle Channel / QPSK



Date: 2 MAY 2019 15:08:28

Middle Channel / 16QAM

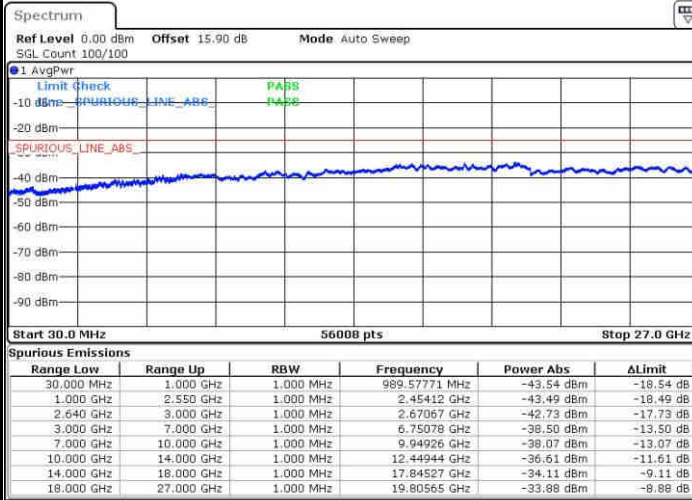


Date: 2 MAY 2019 15:09:13



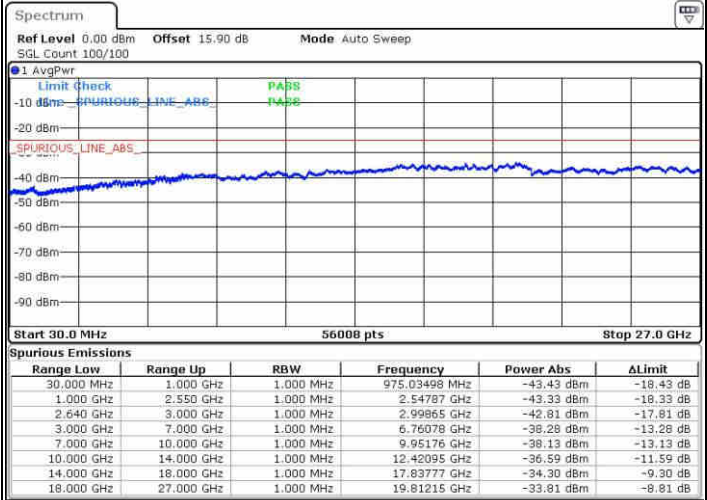
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 2 MAY 2019 15:09:59

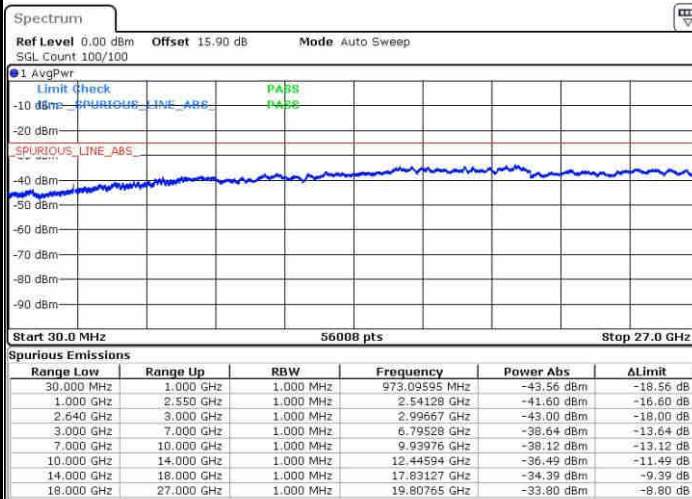
Highest Channel / 16QAM



Date: 2 MAY 2019 15:10:45

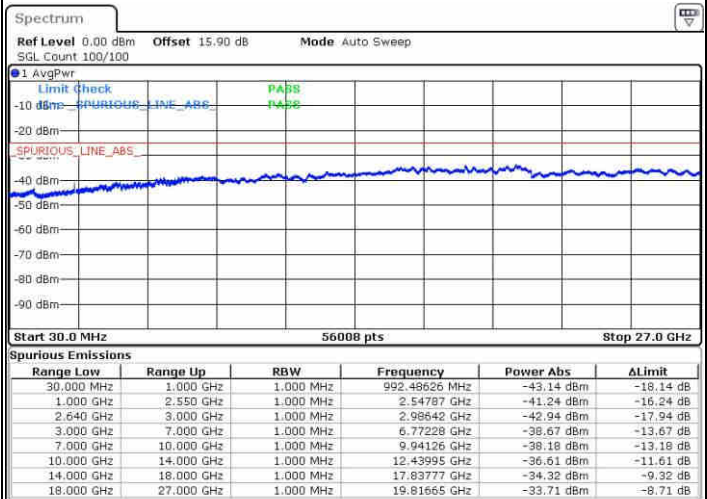
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 2 MAY 2019 15:13:48

Lowest Channel / 16QAM



Date: 2 MAY 2019 15:14:35