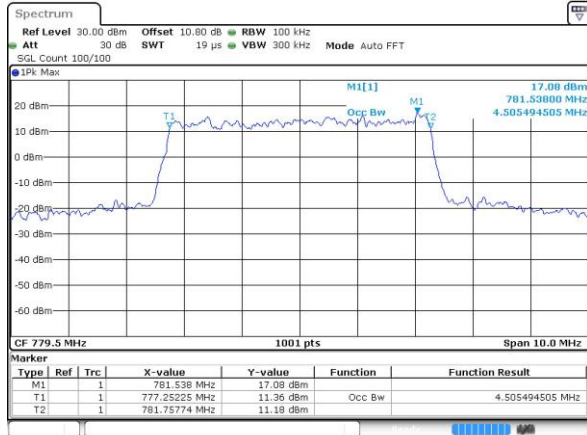




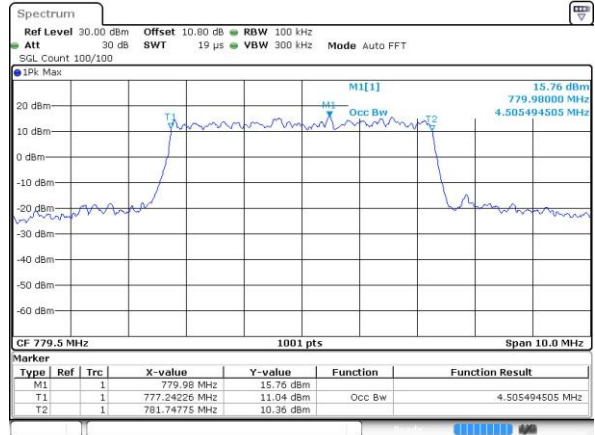
LTE Band 13

Lowest Channel / 5MHz / QPSK



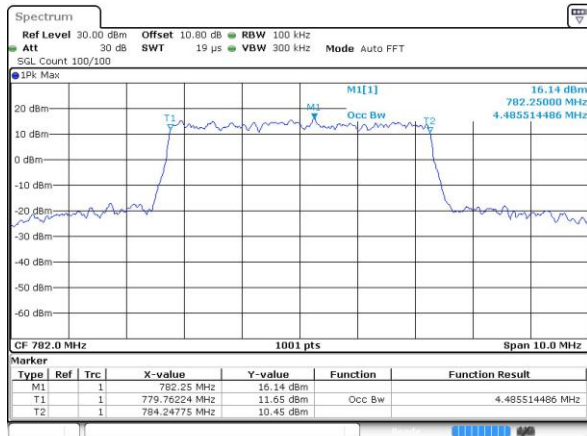
Date: 31 MAR 2018 05:17:27

Lowest Channel / 5MHz / 16QAM



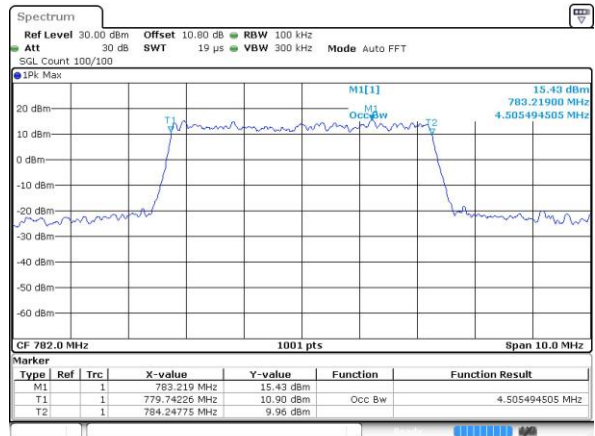
Date: 31 MAR 2018 05:17:37

Middle Channel / 5MHz / QPSK



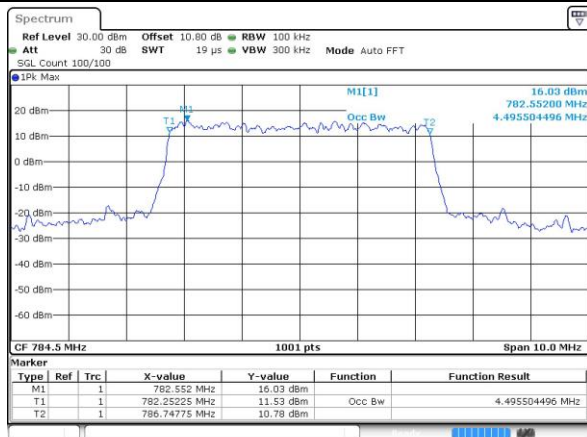
Date: 31 MAR 2018 05:22:15

Middle Channel / 5MHz / 16QAM



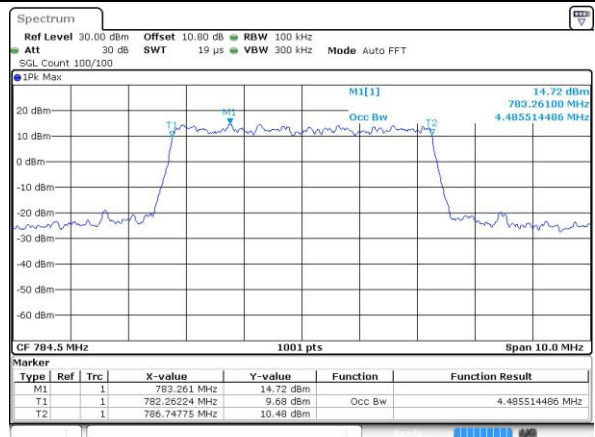
Date: 31 MAR 2018 05:22:05

Highest Channel / 5MHz / QPSK



Date: 31 MAR 2018 05:22:26

Highest Channel / 5MHz / 16QAM

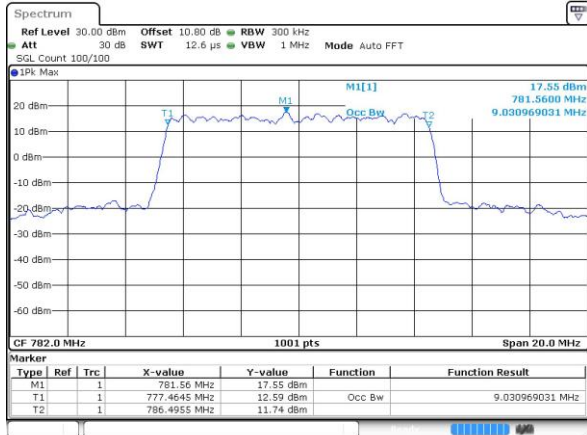


Date: 31 MAR 2018 05:22:36



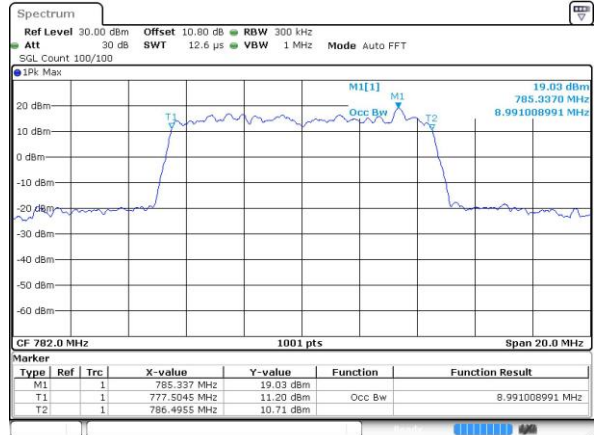
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 31 MAR 2018 05:24:56

Middle Channel / 10MHz / 16QAM

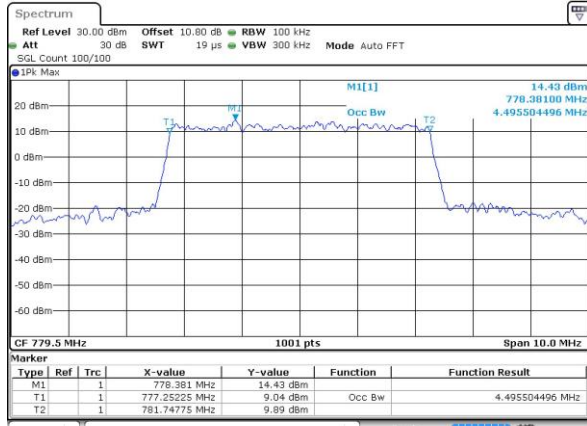


Date: 31 MAR 2018 05:25:07



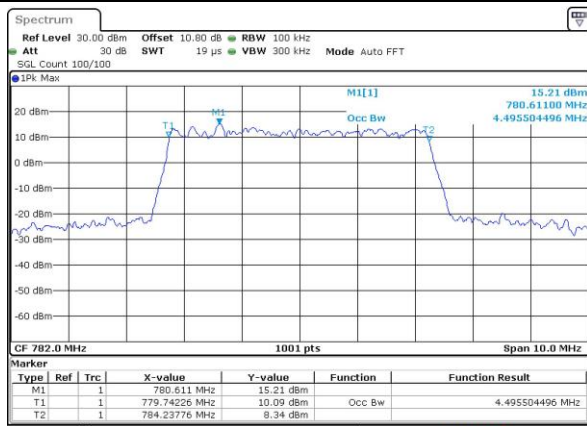
LTE Band 13

Lowest Channel / 5MHz / 64QAM



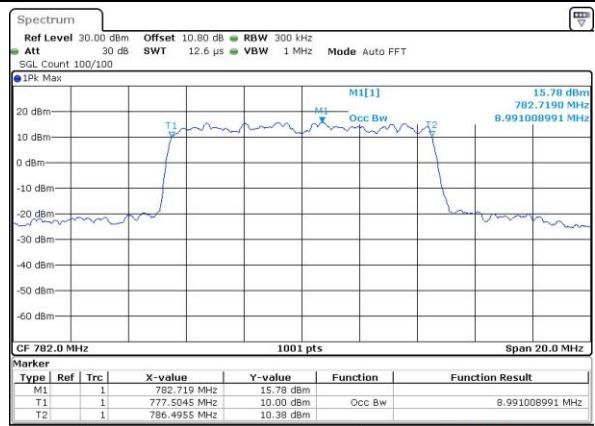
Date: 31 MAR 2018 05:30:26

Middle Channel / 5MHz / 64QAM



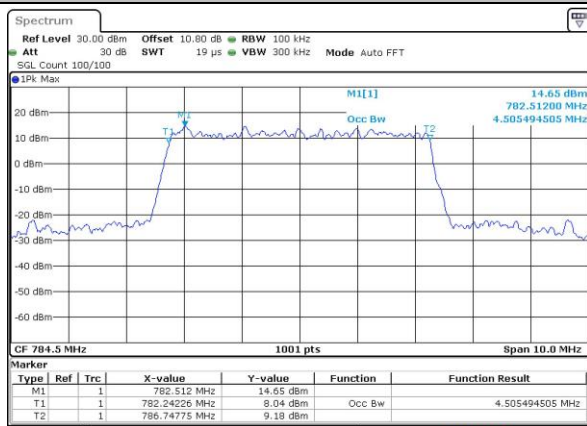
Date: 31 MAR 2018 05:32:45

Middle Channel / 10MHz / 64QAM



Date: 31 MAR 2018 05:34:10

Highest Channel / 5MHz / 64QAM



Date: 31 MAR 2018 05:32:55

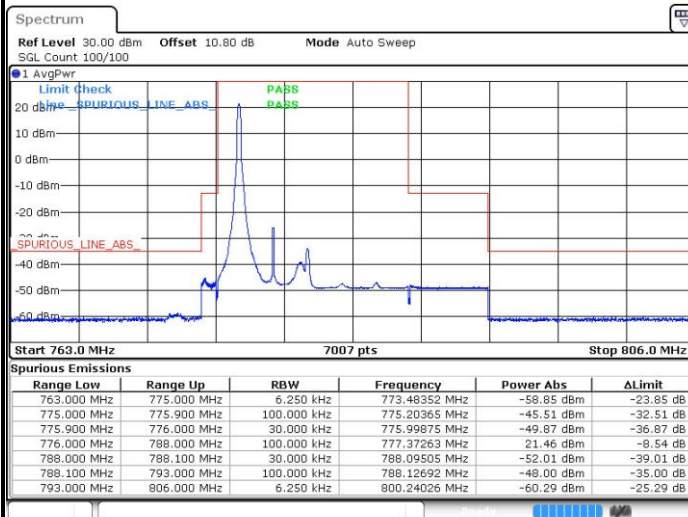


Conducted Band Edge

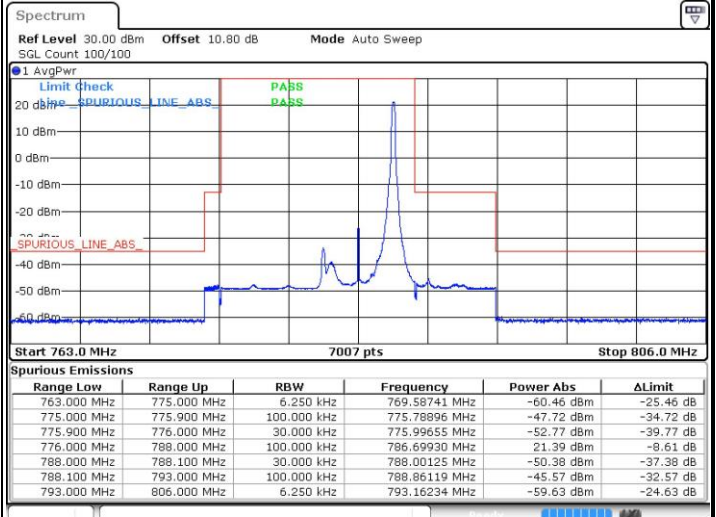


LTE Band 13 / 5MHz / QPSK

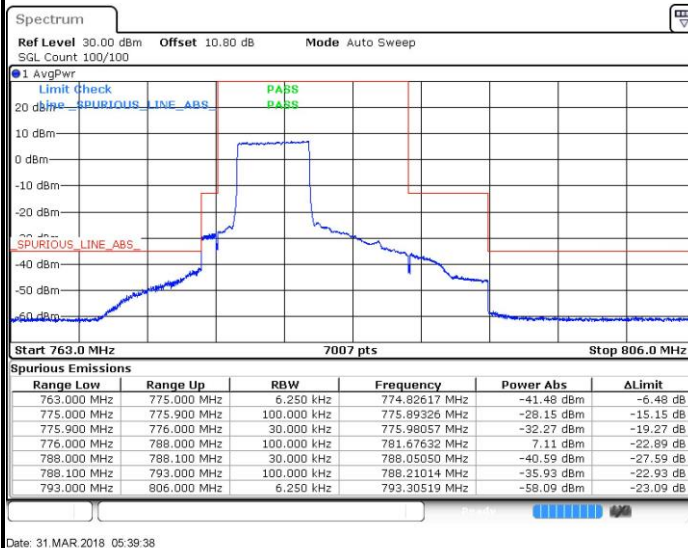
Lowest Band Edge / 1 RB



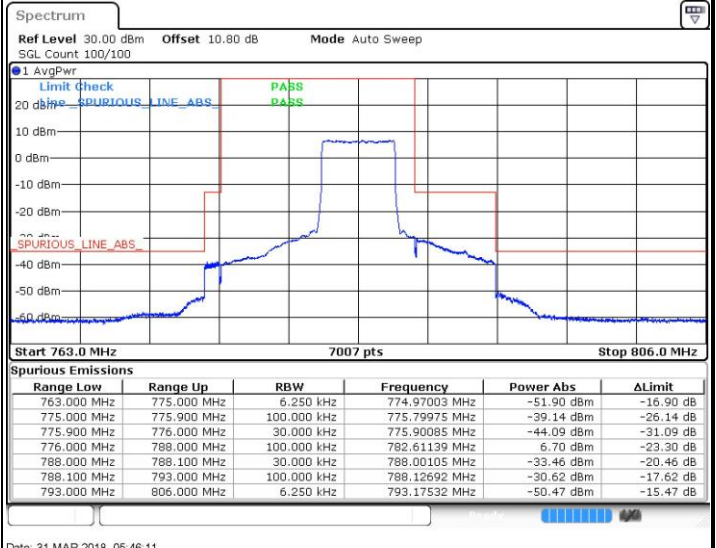
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



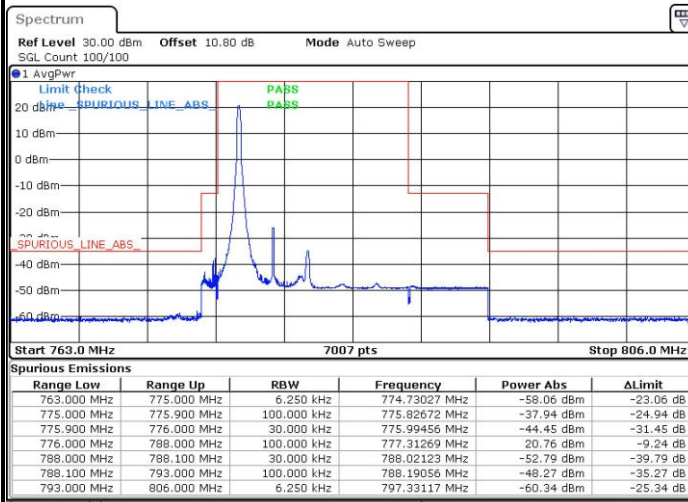
Highest Band Edge / Full RB





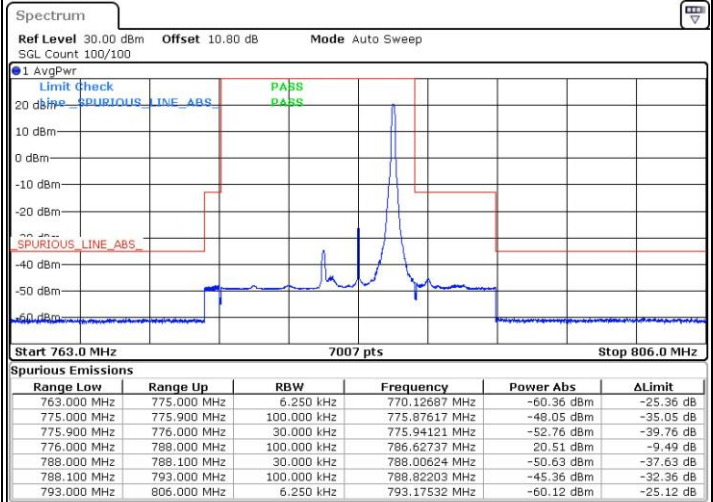
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



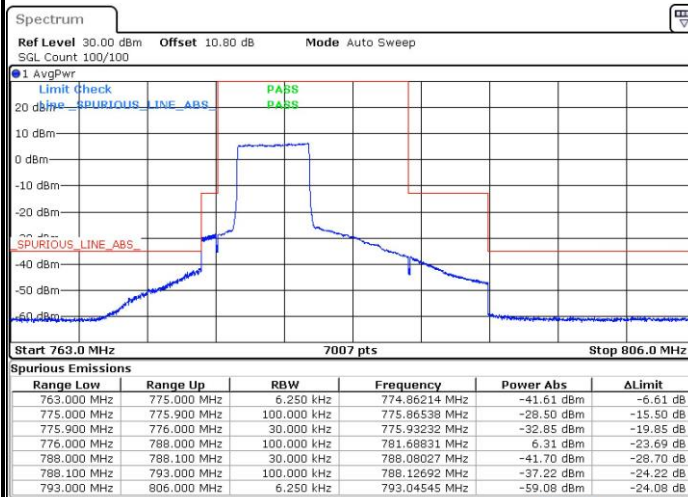
Date: 31.MAR.2018 05:42:55

Highest Band Edge / 1 RB



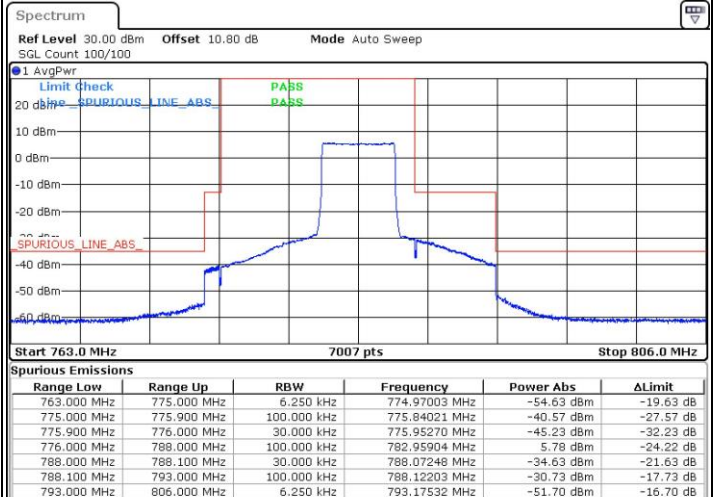
Date: 31.MAR.2018 05:49:27

Lowest Band Edge / Full RB



Date: 31.MAR.2018 05:41:16

Highest Band Edge / Full RB

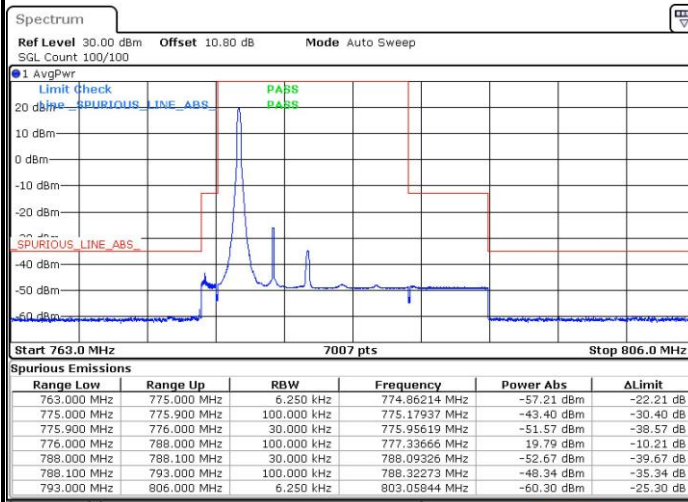


Date: 31.MAR.2018 05:47:49

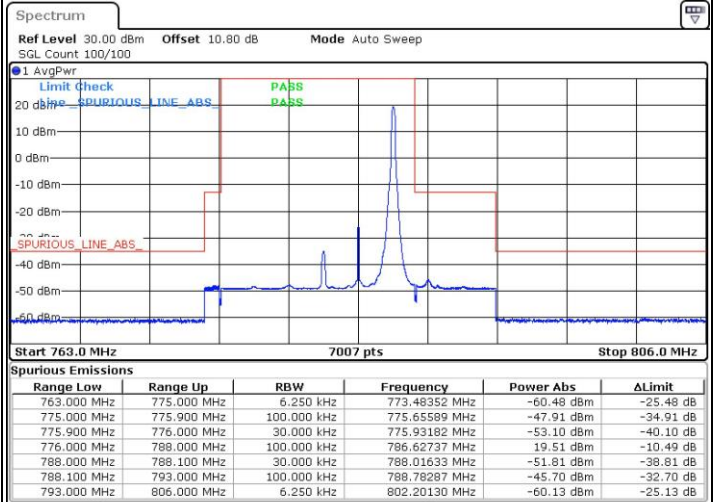


LTE Band 13 / 5MHz / 64QAM

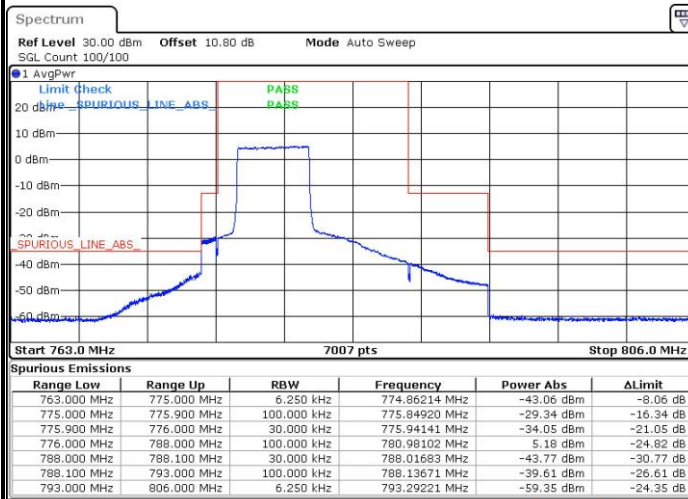
Lowest Band Edge / 1 RB



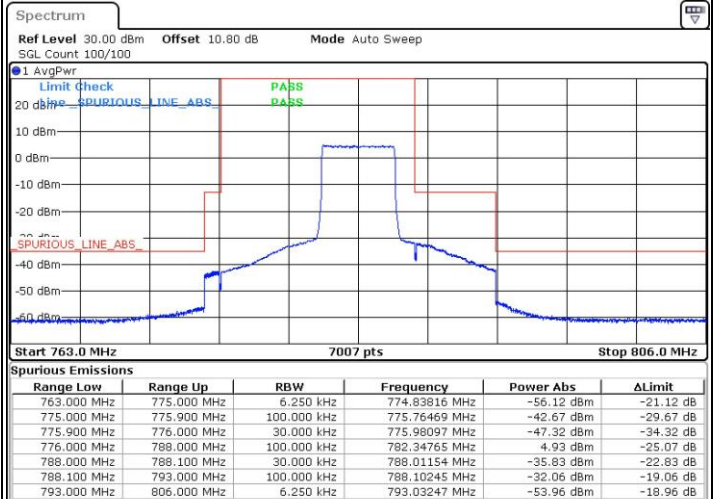
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



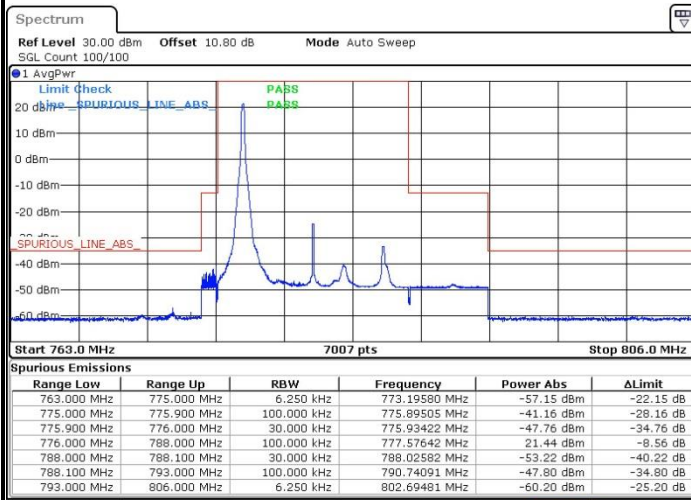
Highest Band Edge / Full RB





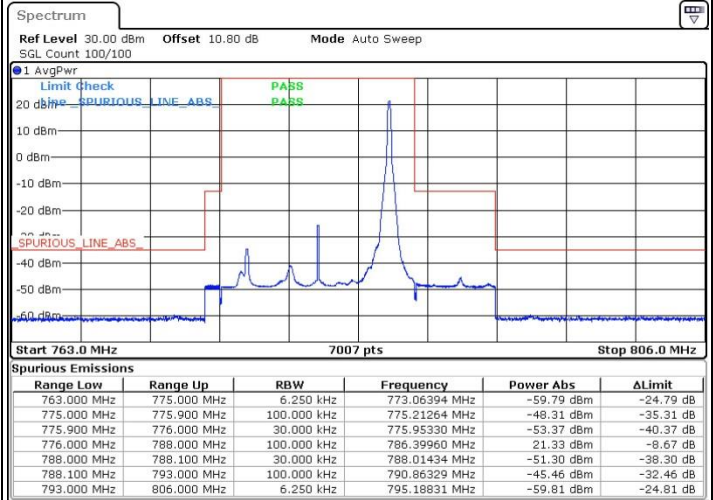
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



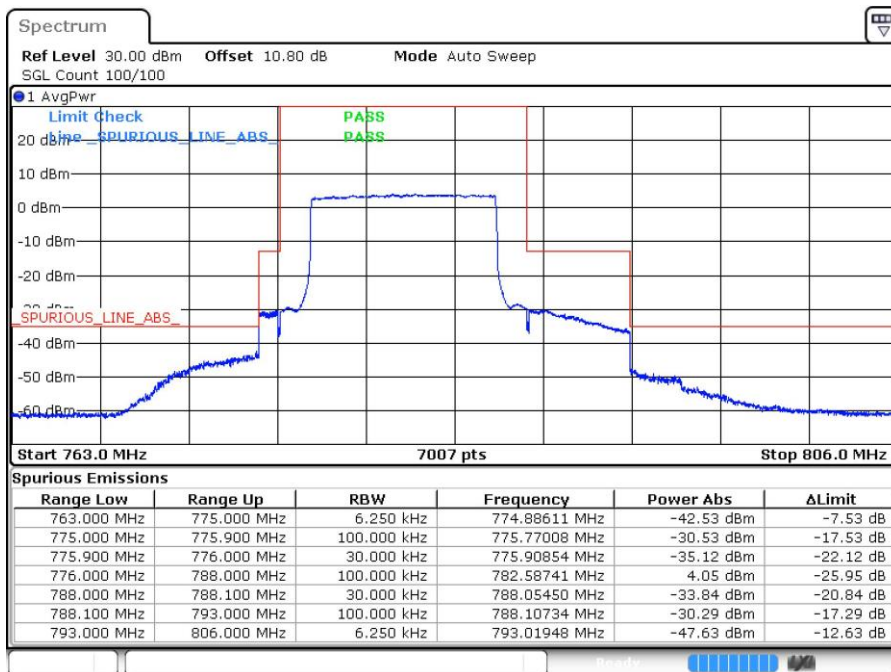
Date: 31.MAR.2018 06:09:04

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:10:42

Band Edge / Full RB

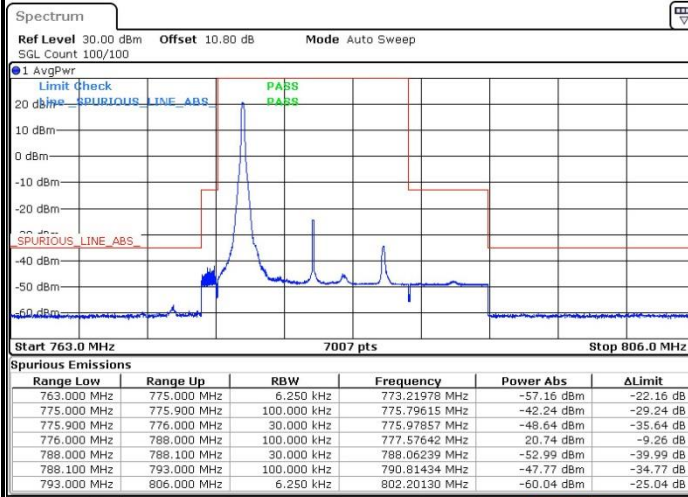


Date: 31.MAR.2018 06:04:10



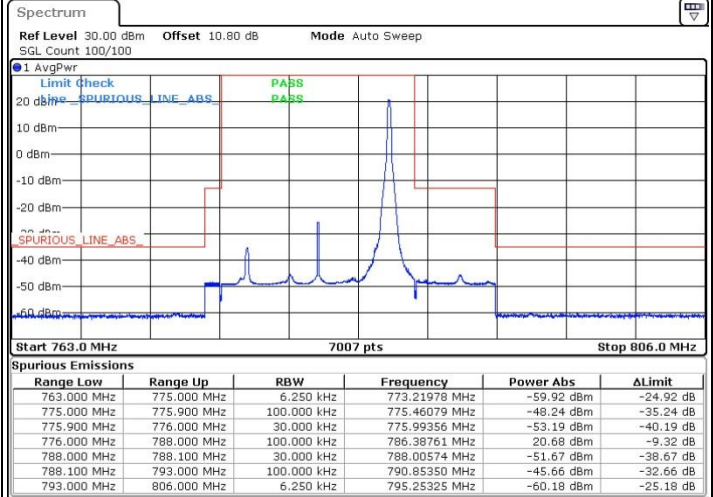
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



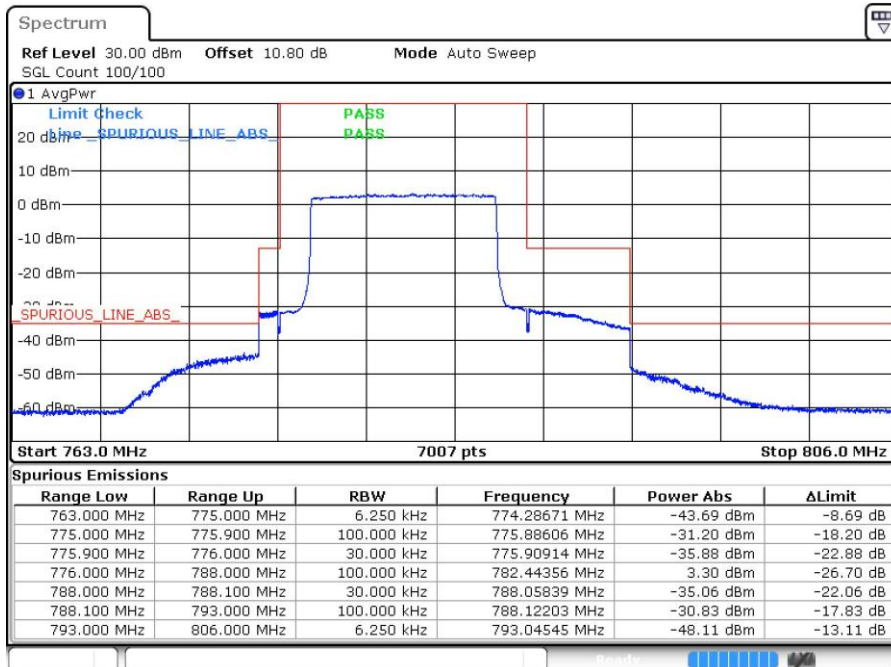
Date: 31.MAR.2018 06:07:26

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:12:21

Band Edge / Full RB

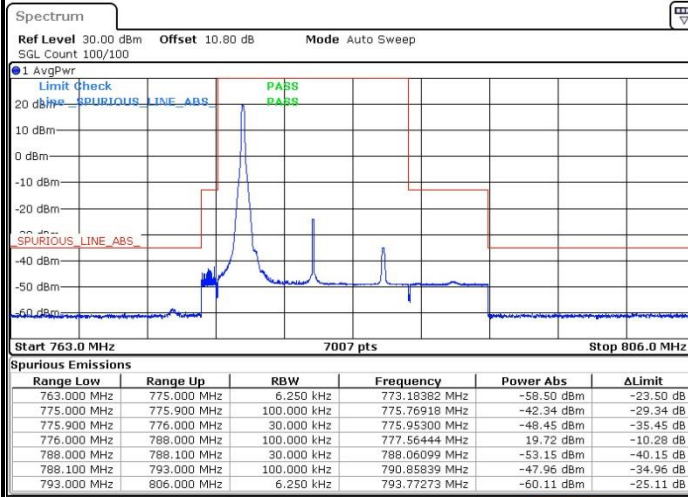


Date: 31.MAR.2018 06:05:48



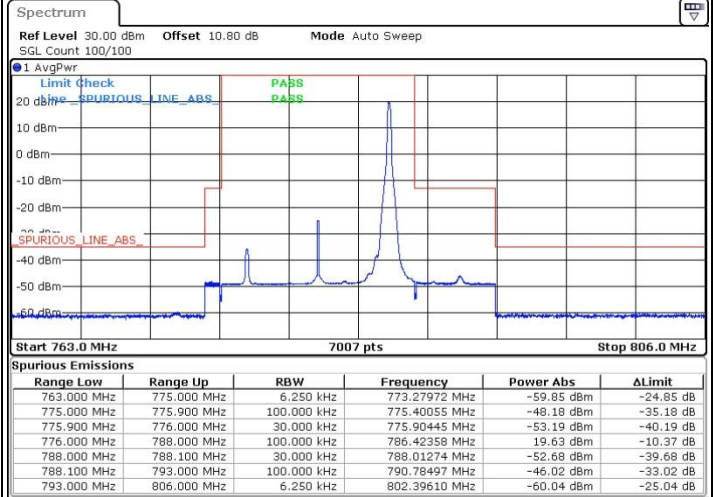
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



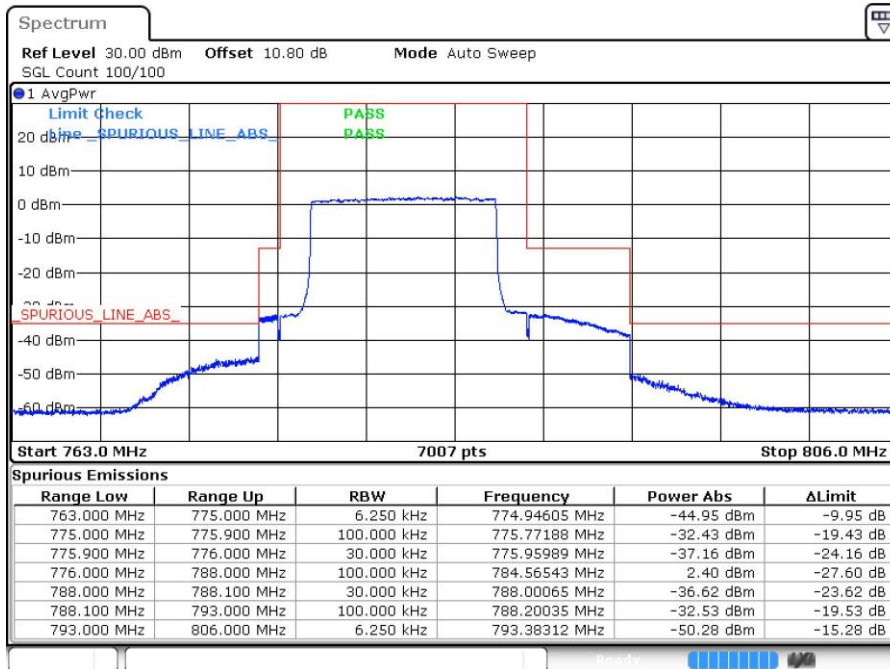
Date: 31.MAR.2018 06:00:54

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:02:32

Band Edge / Full RB

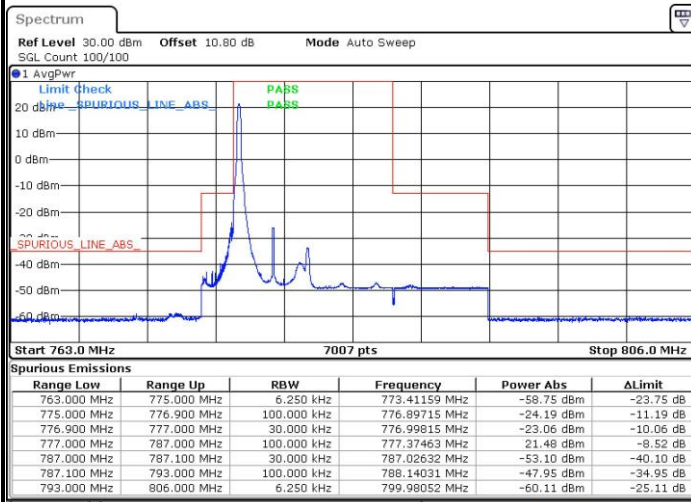


Date: 31.MAR.2018 05:59:16

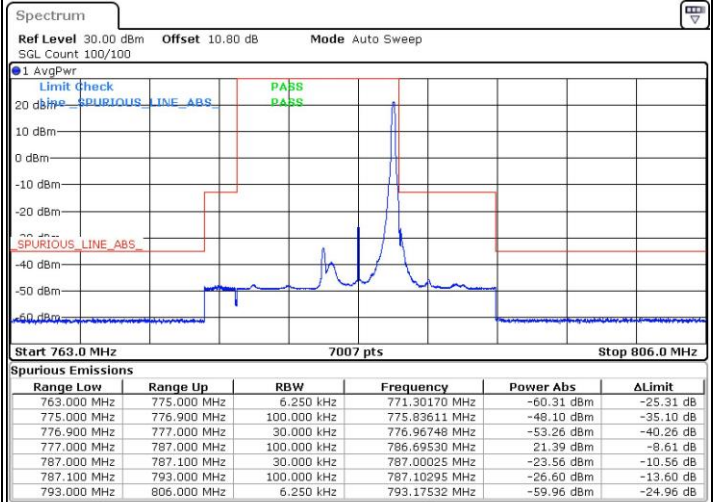


IC LTE Band 13 / 5MHz / QPSK

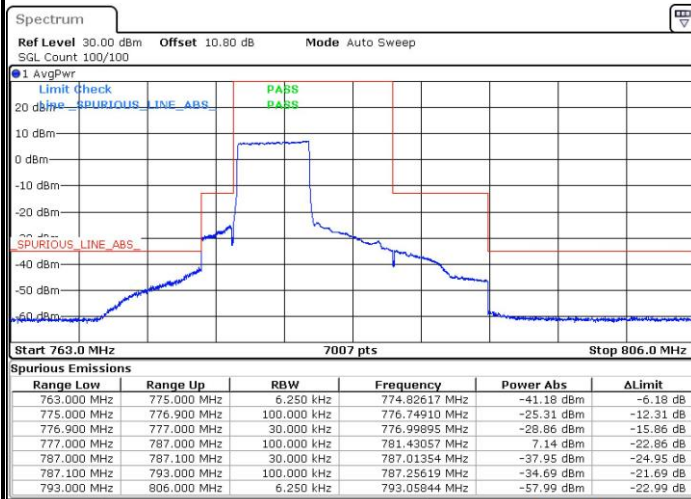
Lowest Band Edge / 1 RB



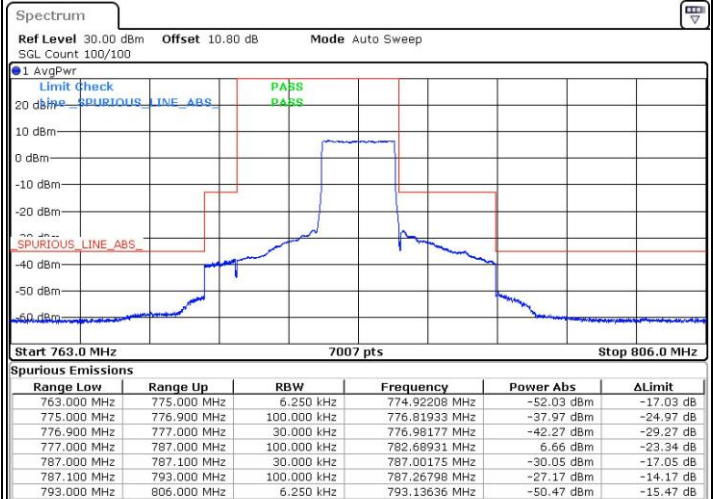
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



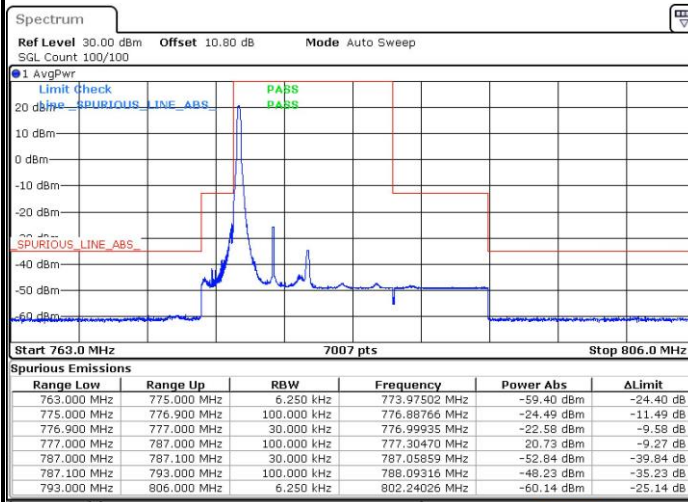
Highest Band Edge / Full RB



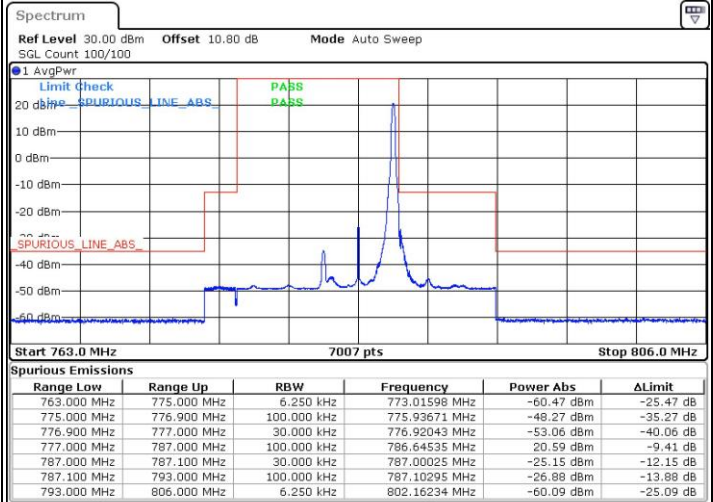


IC LTE Band 13 / 5MHz / 16QAM

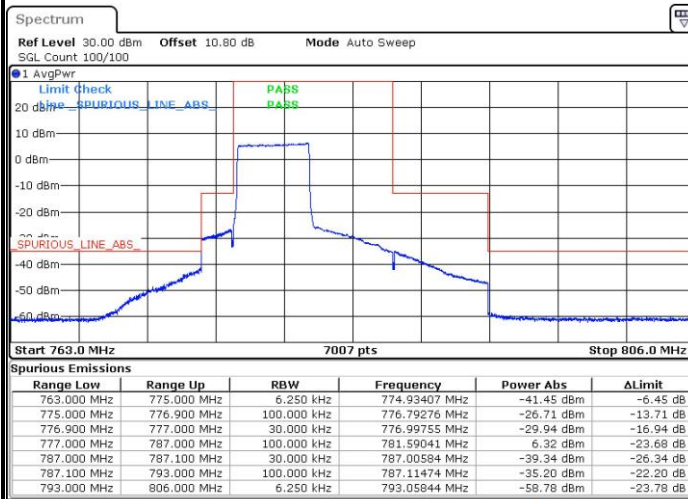
Lowest Band Edge / 1 RB



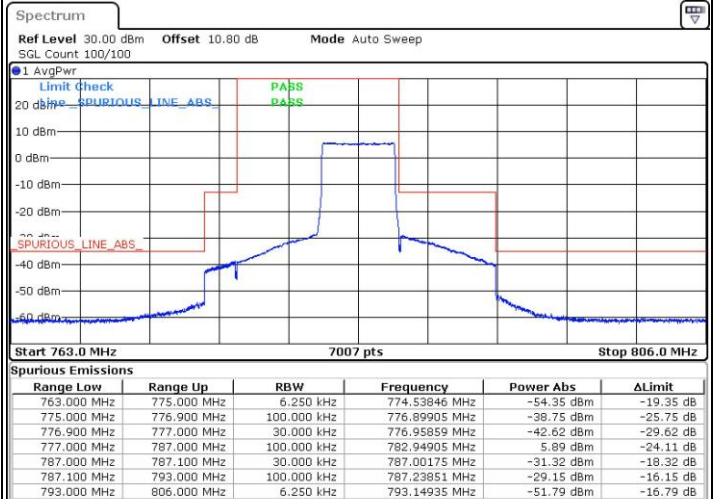
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



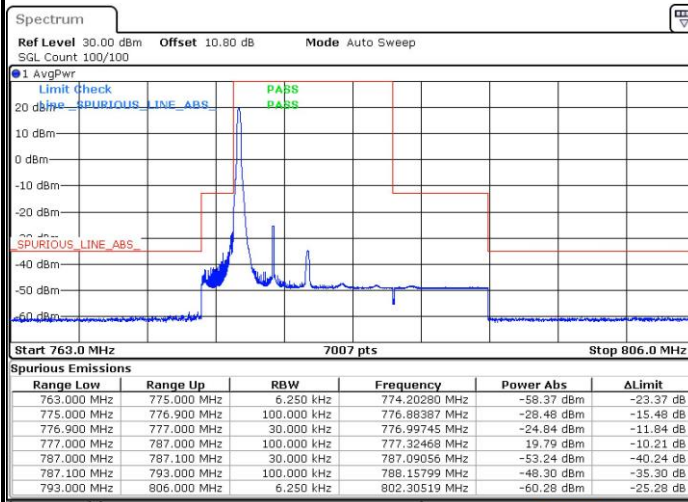
Highest Band Edge / Full RB



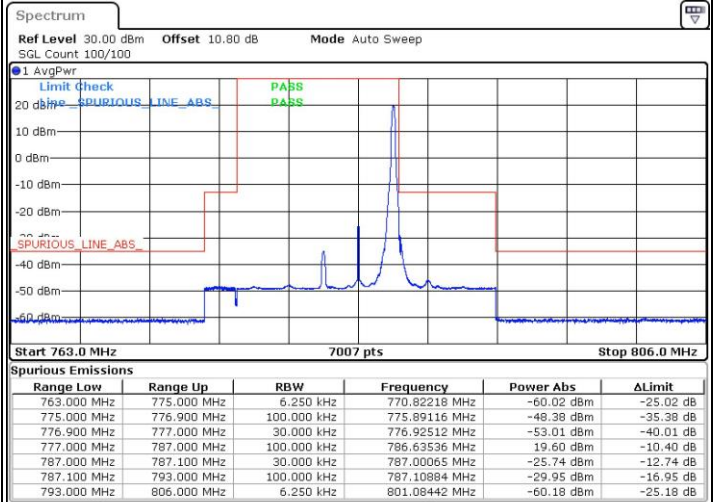


IC LTE Band 13 / 5MHz / 64QAM

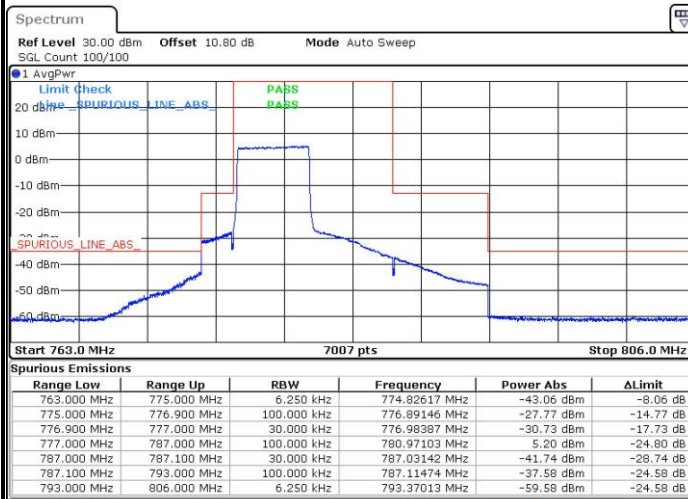
Lowest Band Edge / 1 RB



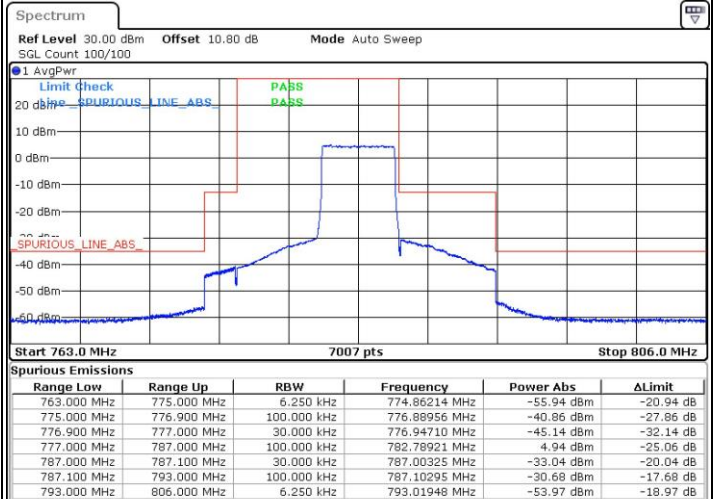
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



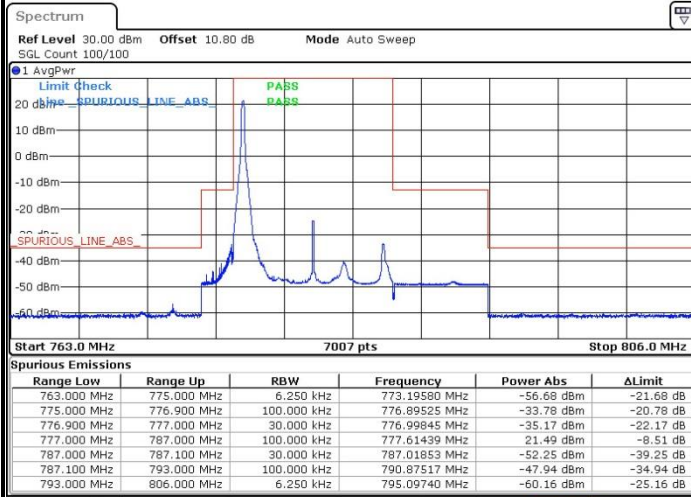
Highest Band Edge / Full RB





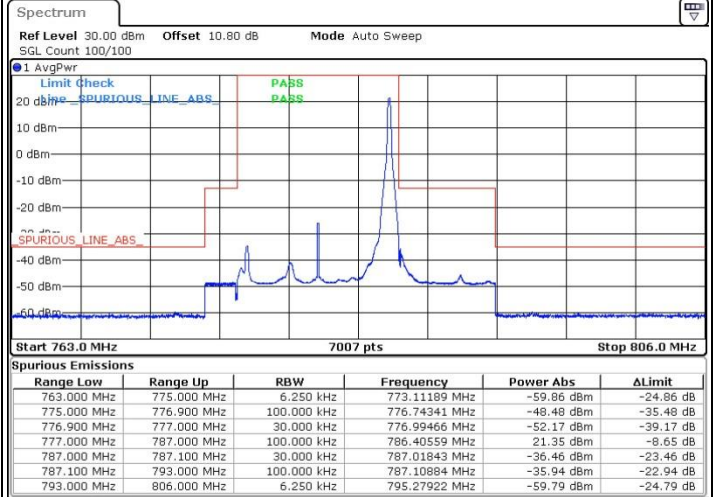
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



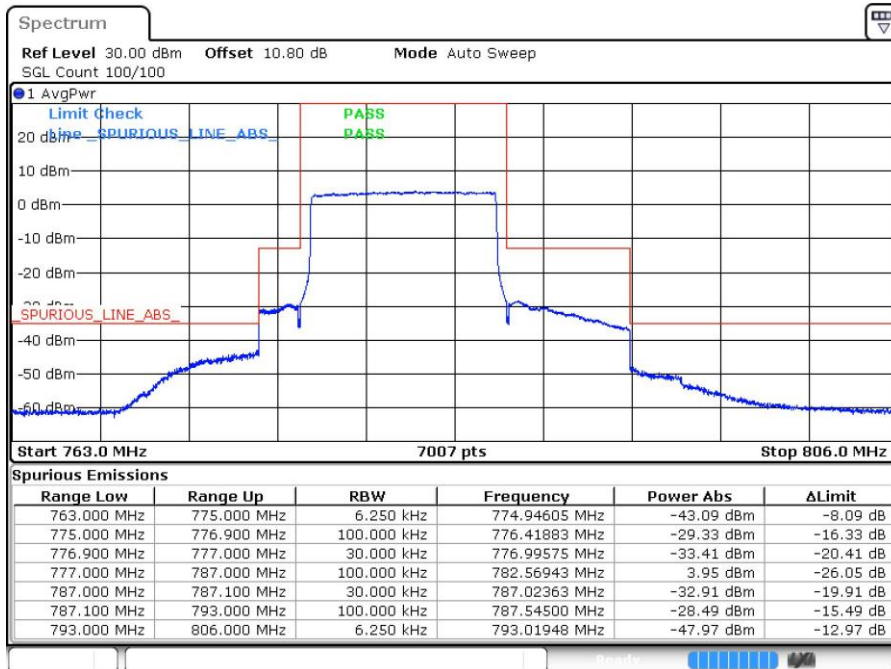
Date: 31.MAR.2018 06:52:28

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:54:06

Band Edge / Full RB

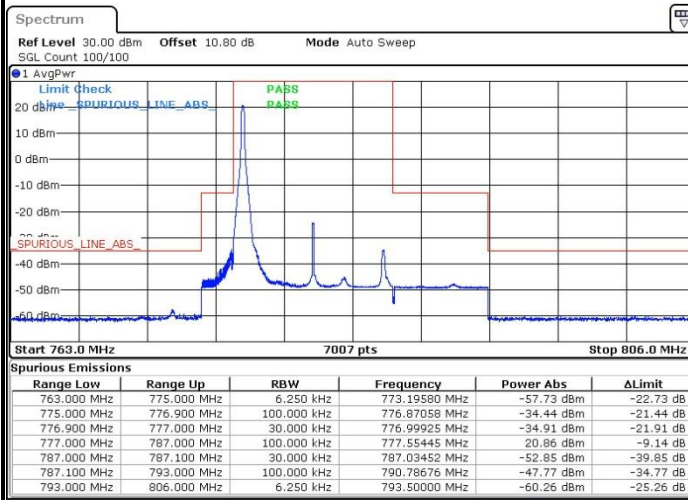


Date: 31.MAR.2018 06:47:33



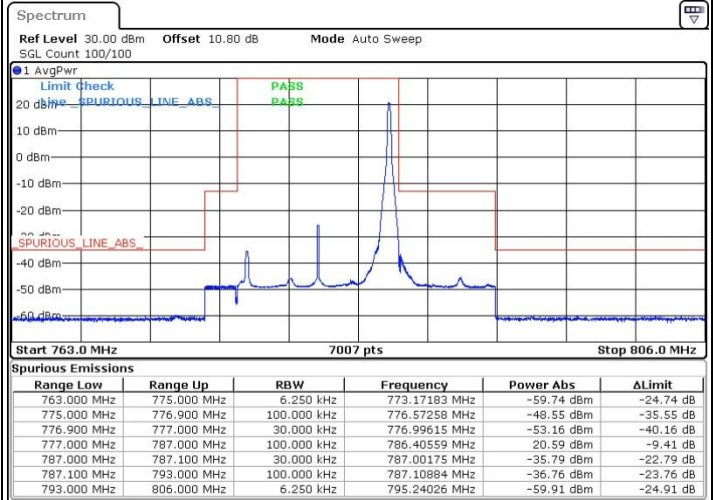
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



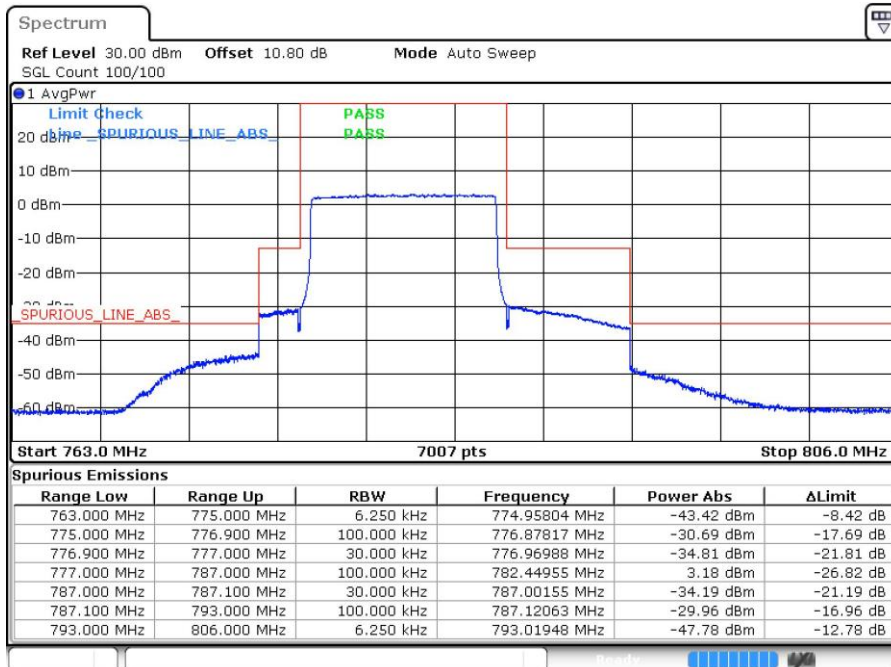
Date: 31.MAR.2018 06:50:50

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:55:44

Band Edge / Full RB

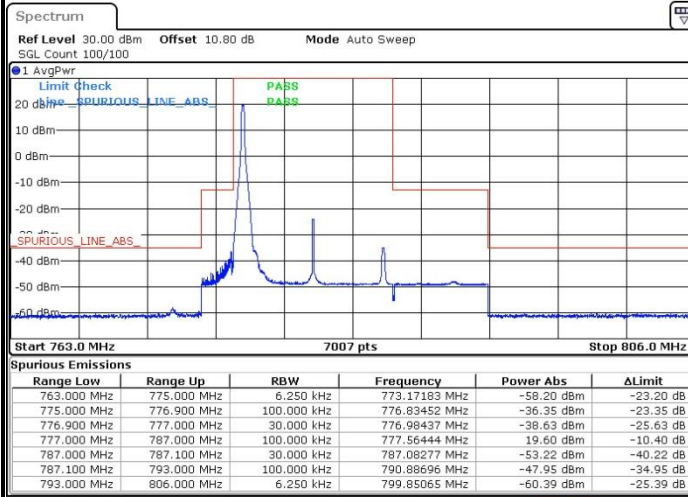


Date: 31.MAR.2018 06:49:12



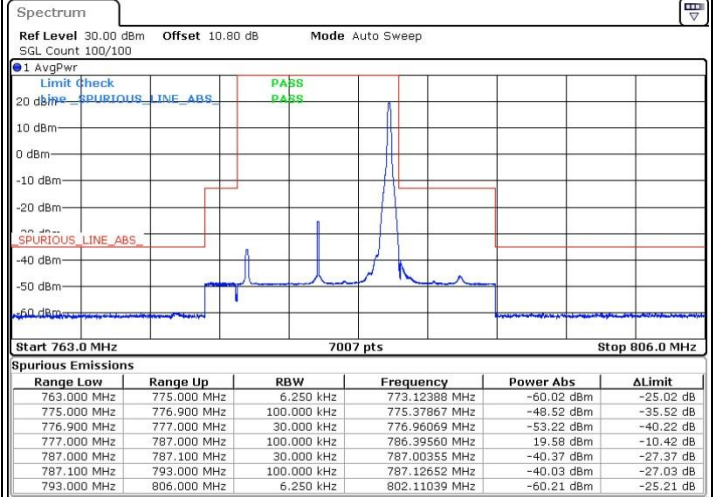
IC LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



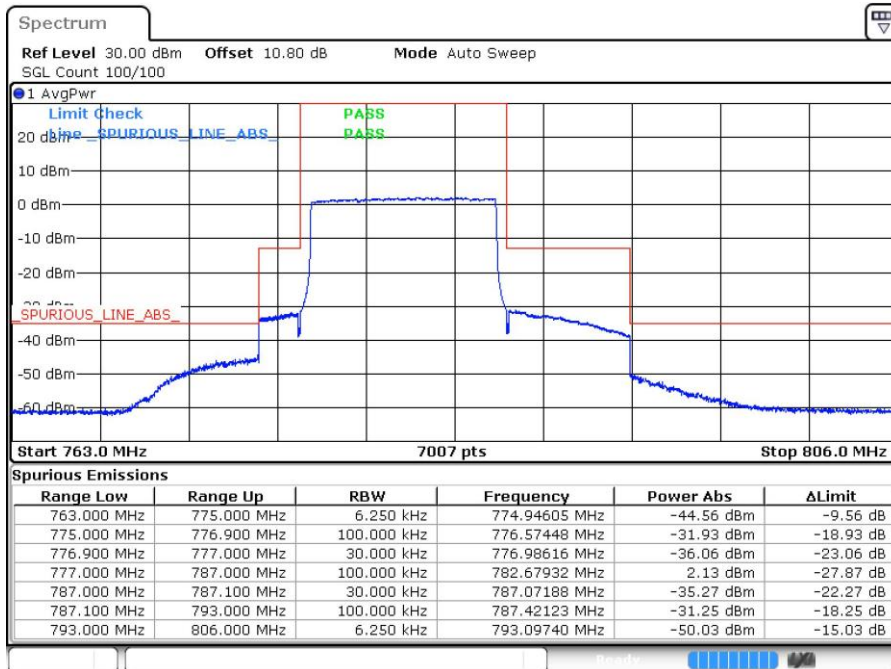
Date: 31.MAR.2018 06:44:17

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:45:55

Band Edge / Full RB



Date: 31.MAR.2018 06:42:39

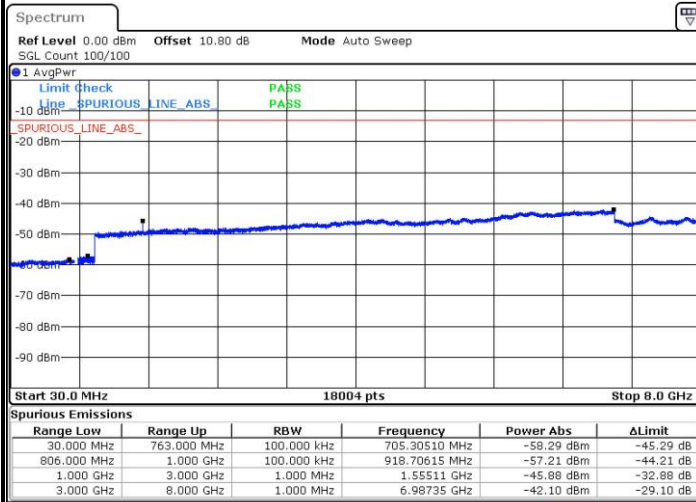


Conducted Spurious Emission



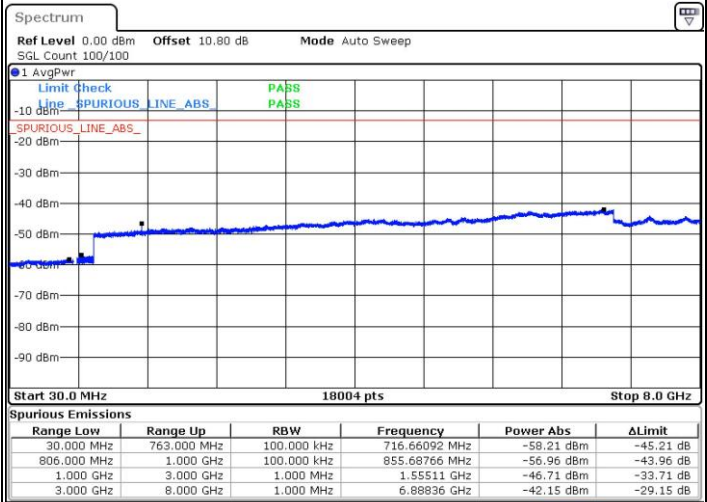
LTE Band 13 / 5MHz

Lowest Channel / QPSK



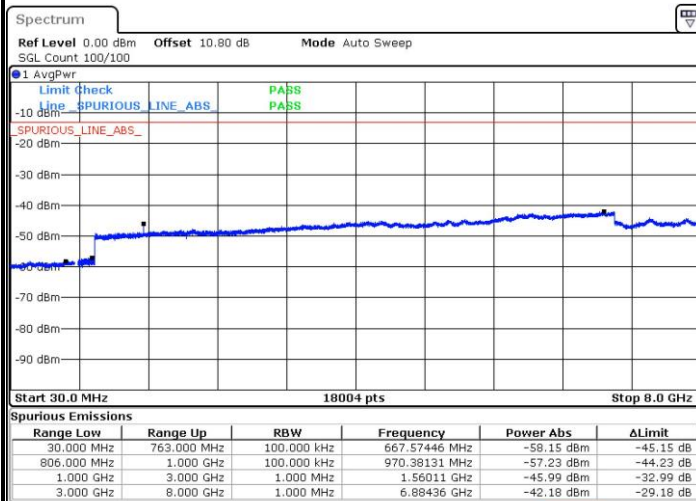
Date: 31 MAR 2018 05:18:51

Lowest Channel / 16QAM



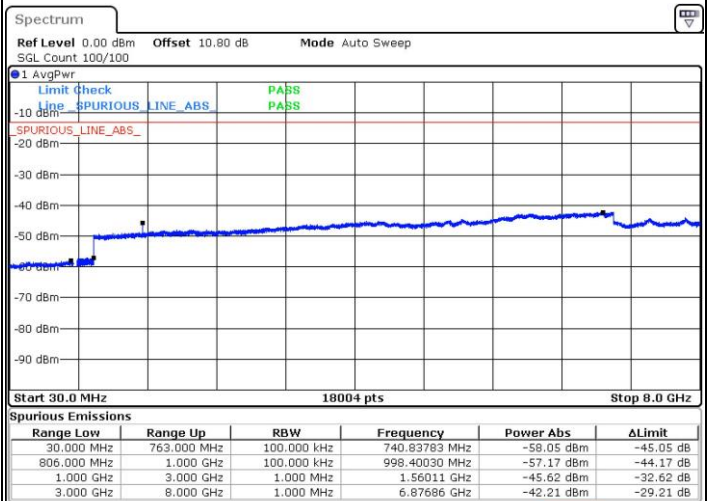
Date: 31 MAR 2018 05:19:45

Middle Channel / QPSK



Date: 31 MAR 2018 05:21:33

Middle Channel / 16QAM

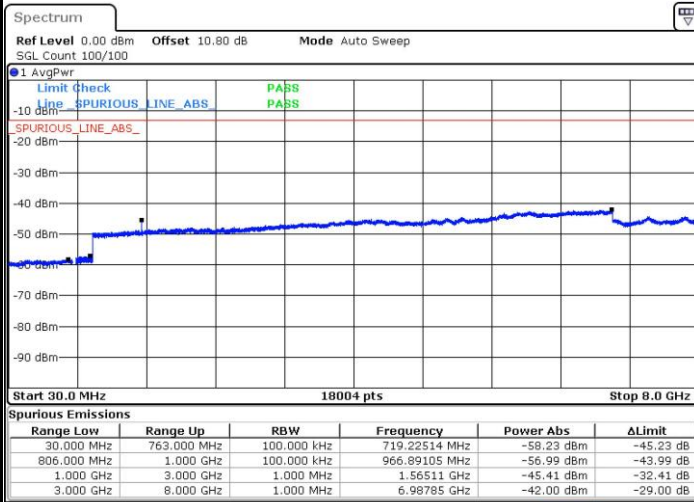


Date: 31 MAR 2018 05:20:39



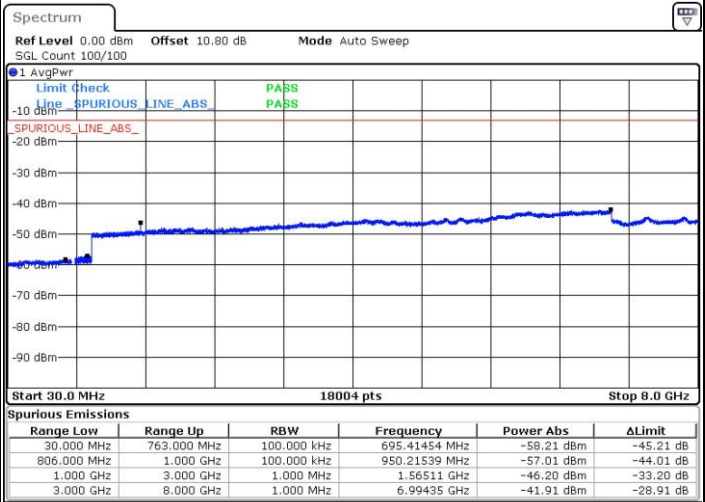
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 31.MAR.2018 05:23:51

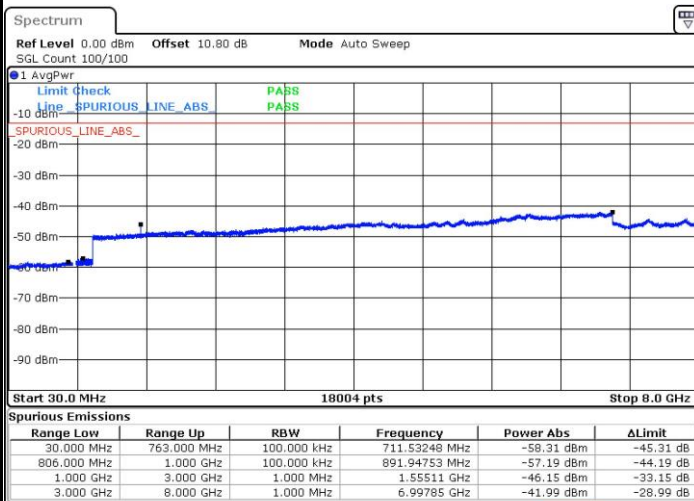
Highest Channel / 16QAM



Date: 31.MAR.2018 05:24:45

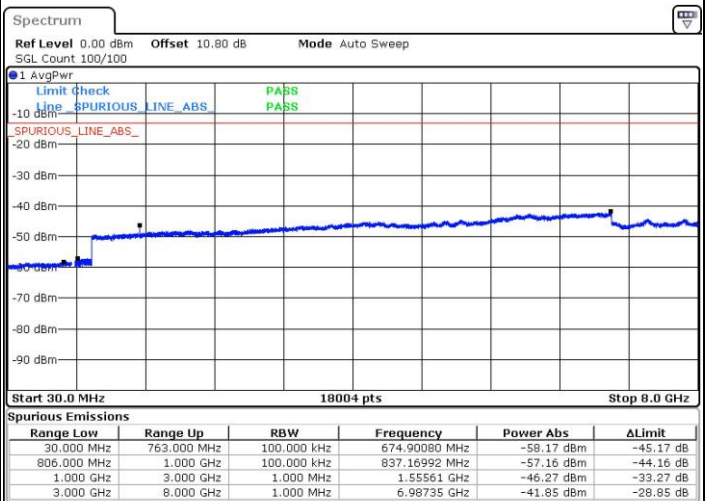
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 31.MAR.2018 05:27:16

Middle Channel / 16QAM

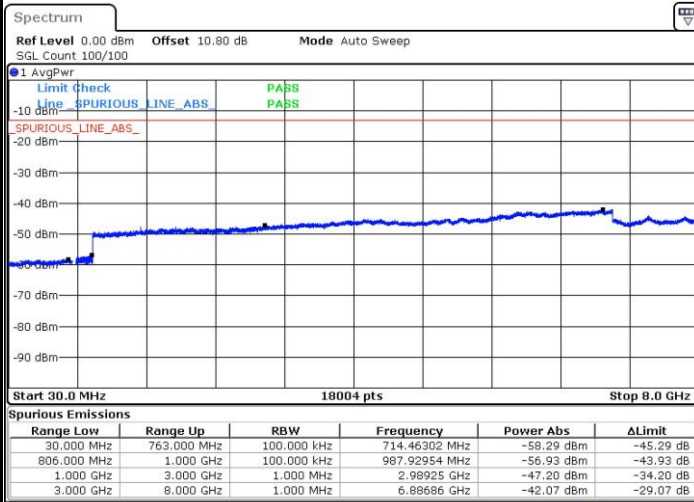


Date: 31.MAR.2018 05:26:21



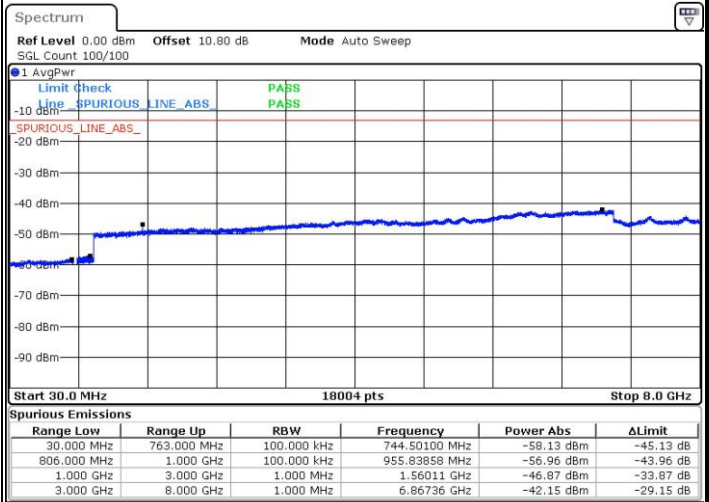
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



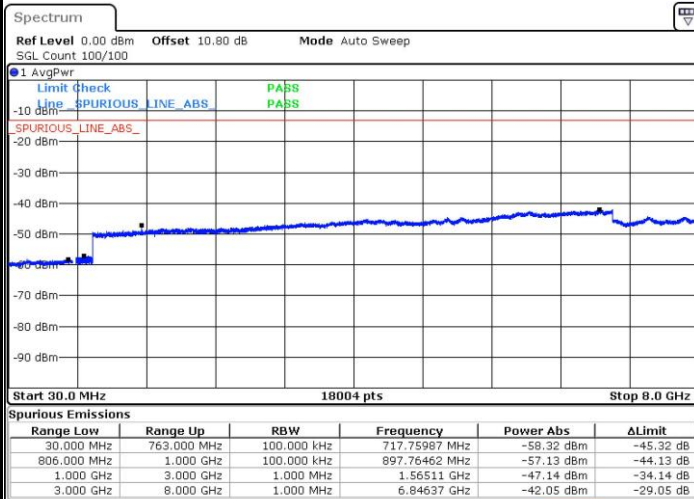
Date: 31 MAR 2018 05:31:30

Middle Channel / 64QAM



Date: 31 MAR 2018 05:32:24

Highest Channel / 64QAM

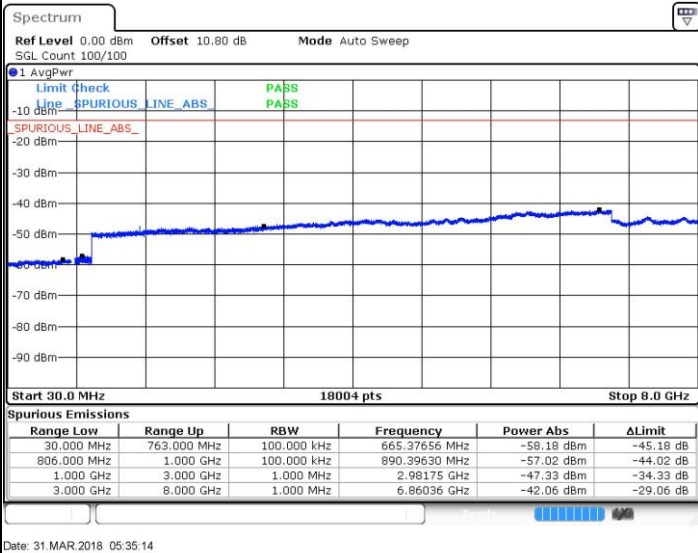


Date: 31 MAR 2018 05:33:59



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0120	PASS
40	Normal Voltage	0.0143	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0104	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0229	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	9.4	PASS
40	Normal Voltage	11.2	
30	Normal Voltage	0.4	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	-0.9	
0	Normal Voltage	0	
-10	Normal Voltage	3.4	
-20	Normal Voltage	-1.4	
-30	Normal Voltage	8.1	
20	Maximum Voltage	-2	
20	Normal Voltage	17.9	
20	Battery End Point	-2.6	

$|\text{MAX}(\Delta f)| = 17.9\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	777.129982	$\geq 777 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	786.873018	$\leq 787 \text{ MHz}$	

LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.75	4.78	6.03	PASS
Middle CH	3.86	4.64	5.54	5.97	
Highest CH	3.68	4.75	5.25	6.20	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.83	6.75			PASS
Middle CH	6.87	6.64			
Highest CH	6.38	6.81			