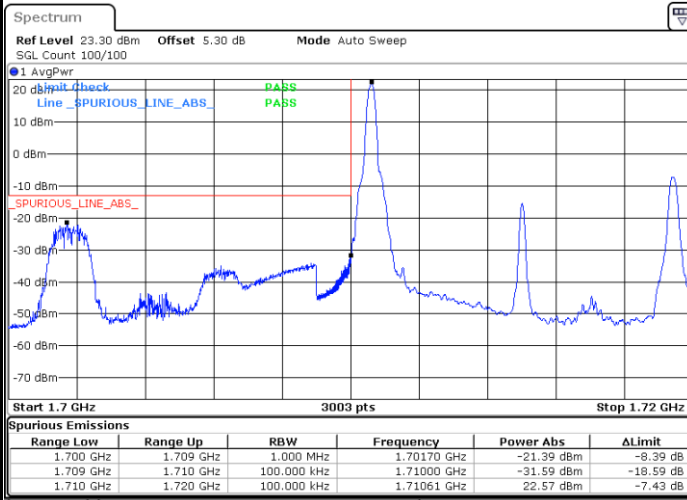




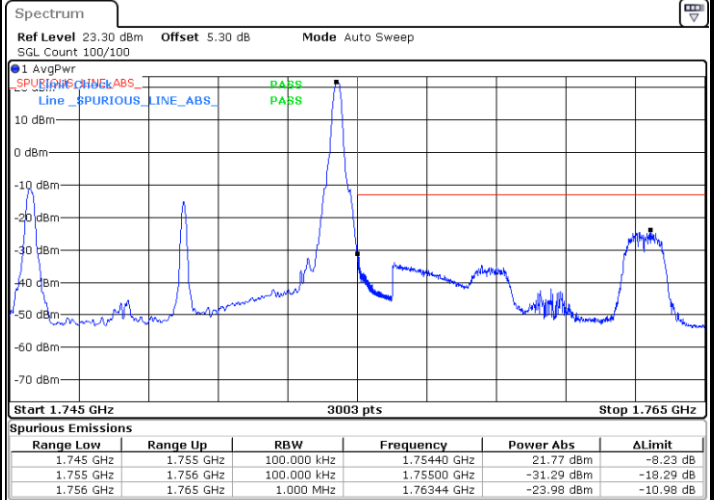
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



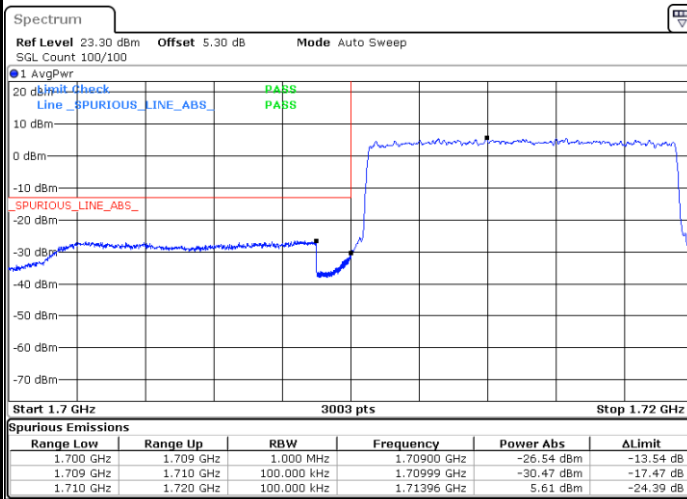
Date: 31.OCT.2018 12:37:31

Highest Band Edge / 1 RB



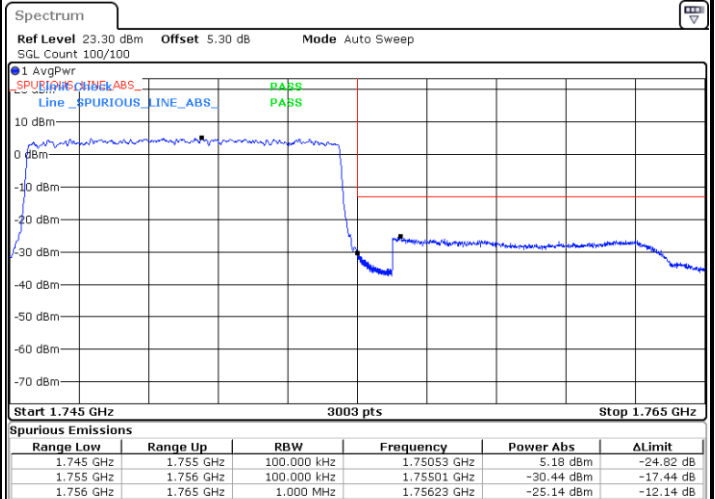
Date: 31.OCT.2018 12:47:02

Lowest Band Edge / Full RB



Date: 31.OCT.2018 12:39:47

Highest Band Edge / Full RB

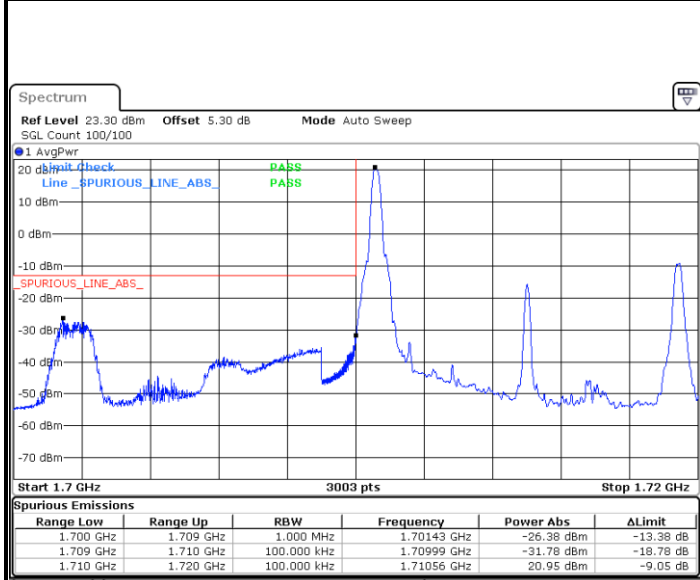


Date: 31.OCT.2018 12:49:17



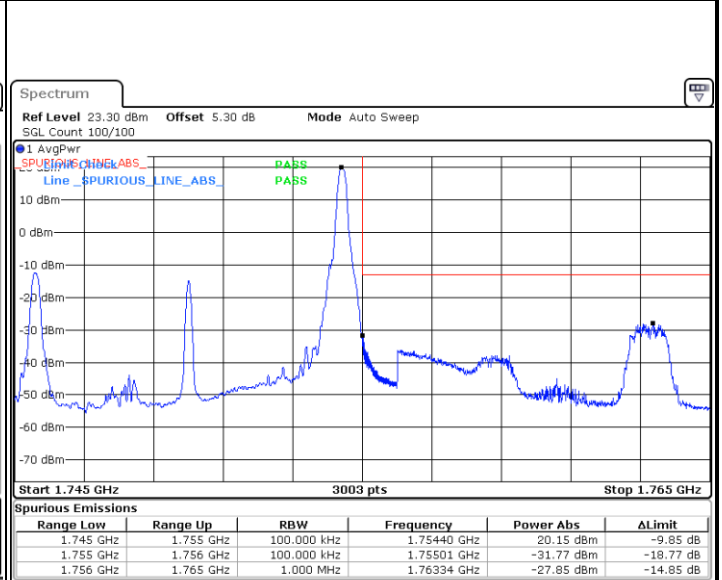
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



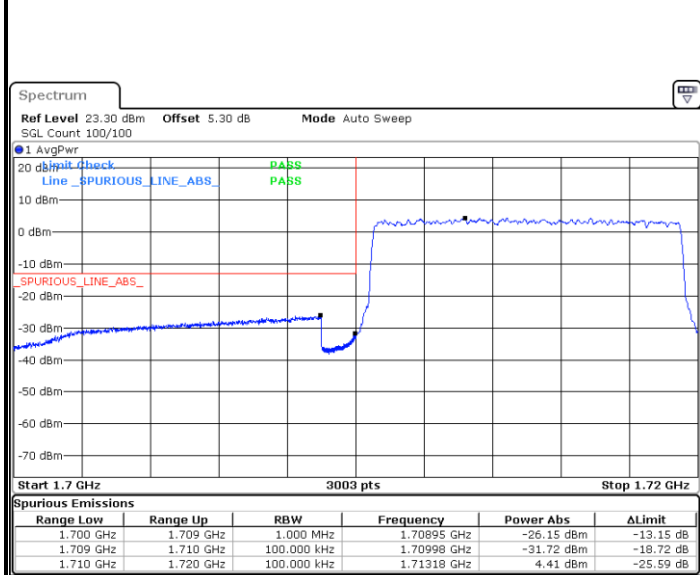
Date: 31.OCT.2018 12:38:39

Highest Band Edge / 1 RB



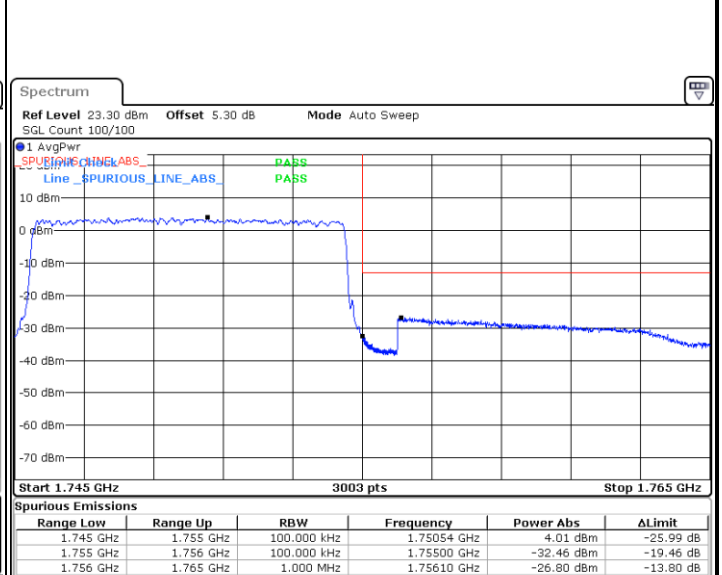
Date: 31.OCT.2018 12:48:09

Lowest Band Edge / Full RB



Date: 31.OCT.2018 12:40:54

Highest Band Edge / Full RB

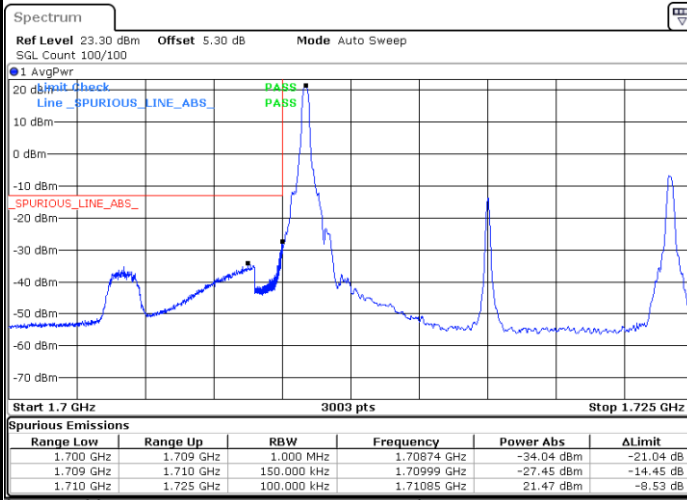


Date: 31.OCT.2018 12:50:25



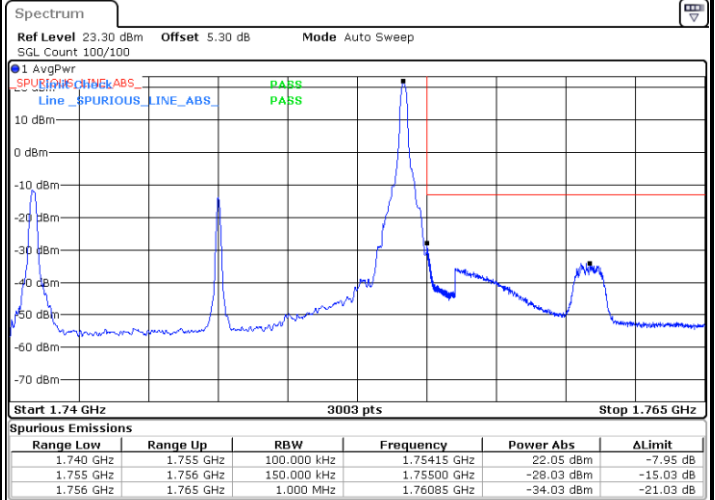
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



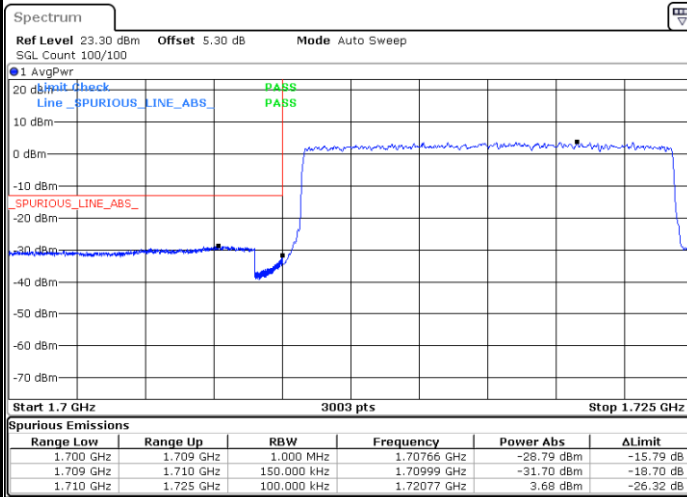
Date: 31.OCT.2018 12:54:02

Highest Band Edge / 1 RB



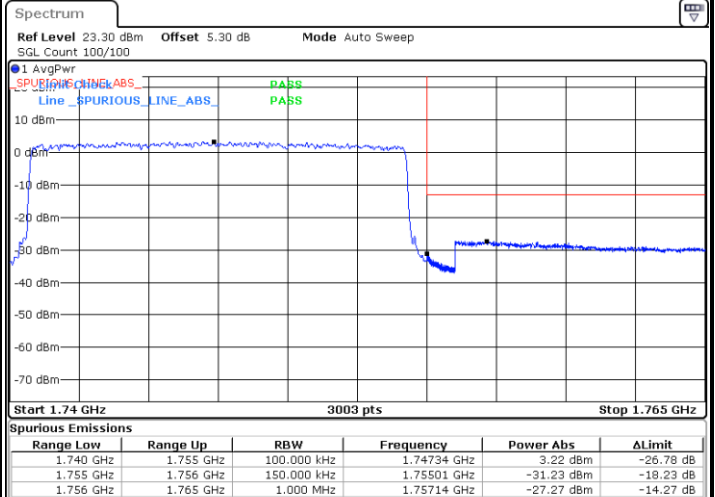
Date: 31.OCT.2018 13:03:33

Lowest Band Edge / Full RB



Date: 31.OCT.2018 12:56:17

Highest Band Edge / Full RB

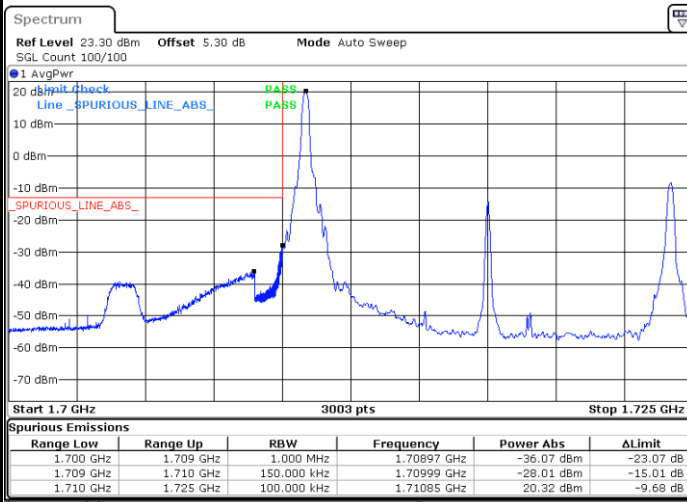


Date: 31.OCT.2018 13:05:48



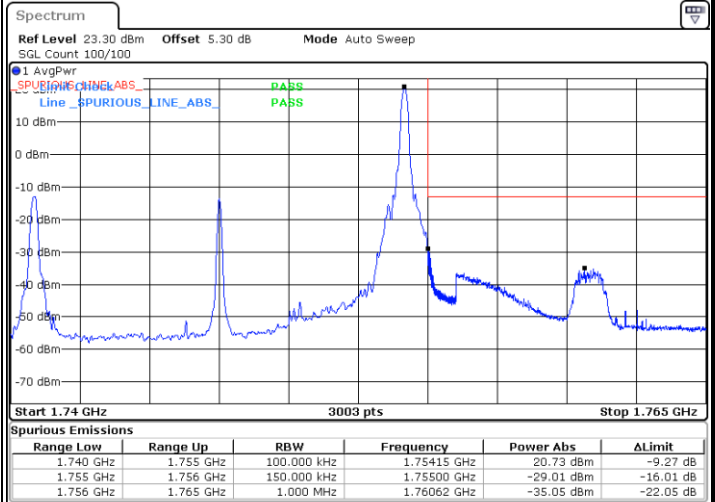
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



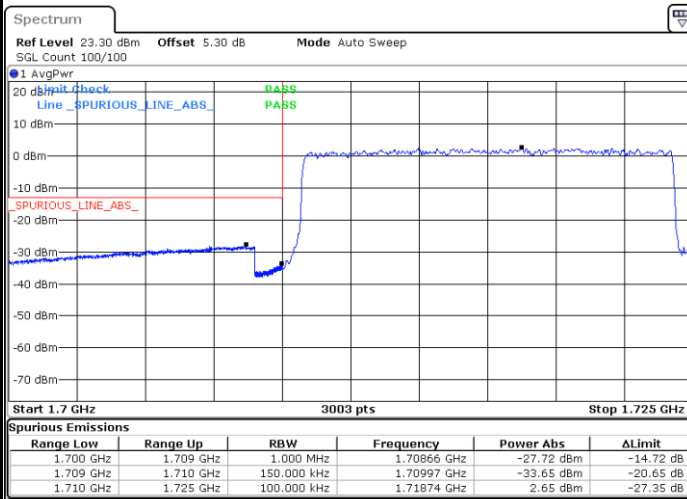
Date: 31.OCT.2018 12:55:10

Highest Band Edge / 1 RB



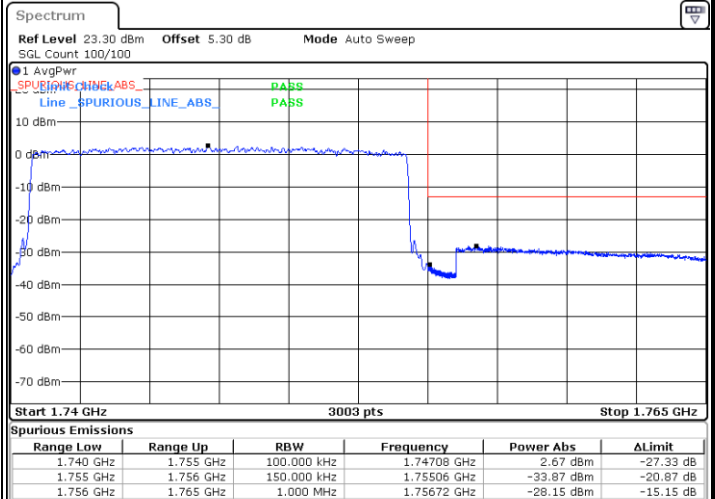
Date: 31.OCT.2018 13:04:40

Lowest Band Edge / Full RB



Date: 31.OCT.2018 12:57:25

Highest Band Edge / Full RB

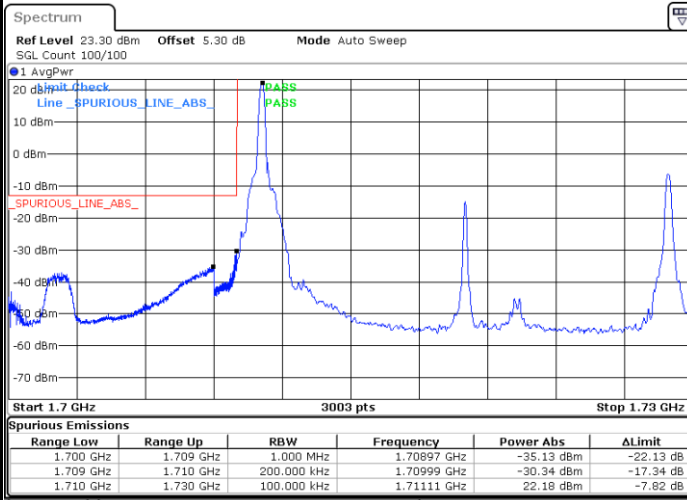


Date: 31.OCT.2018 13:06:55



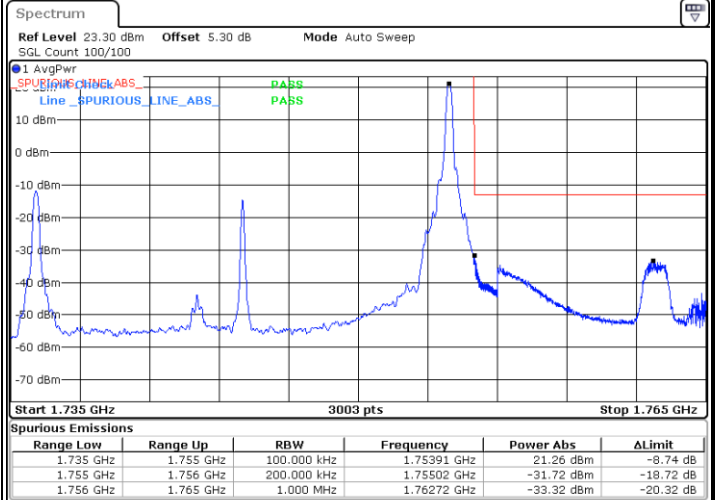
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



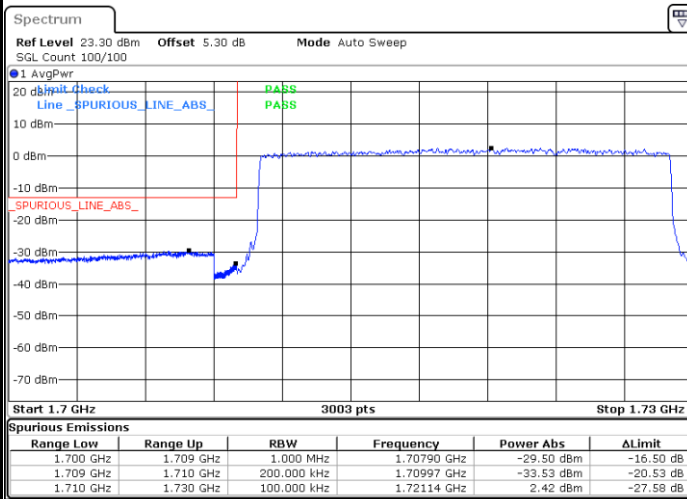
Date: 31.OCT.2018 13:10:33

Highest Band Edge / 1 RB



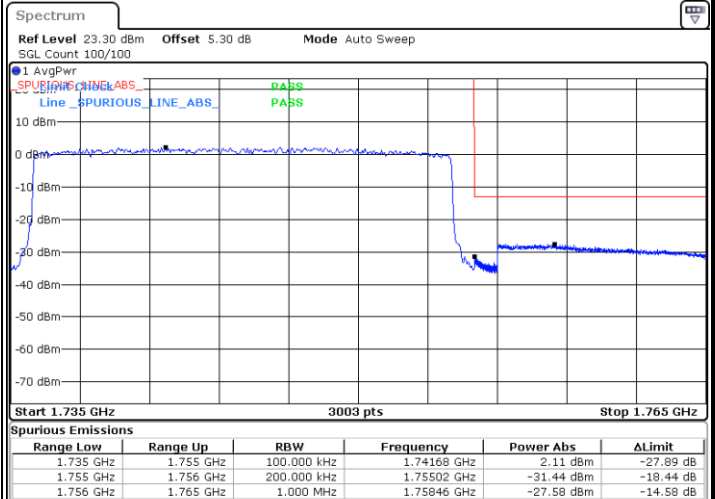
Date: 31.OCT.2018 13:20:03

Lowest Band Edge / Full RB



Date: 31.OCT.2018 13:12:48

Highest Band Edge / Full RB

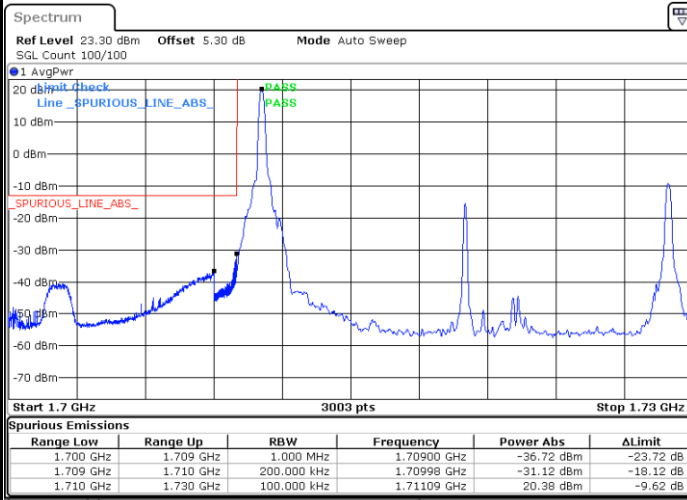


Date: 31.OCT.2018 13:22:19



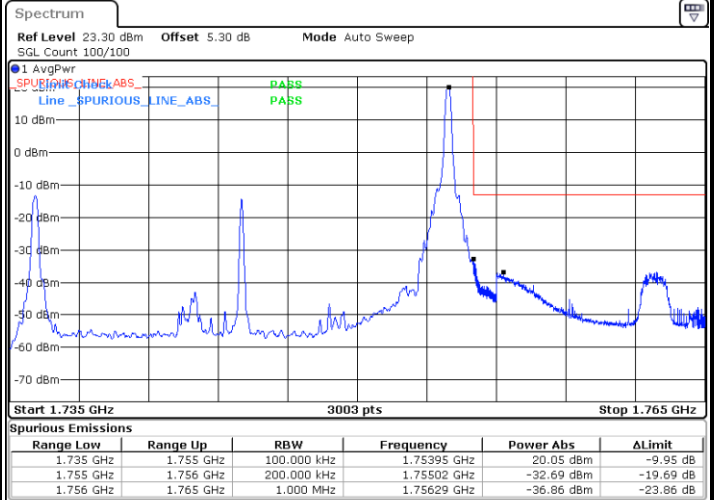
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



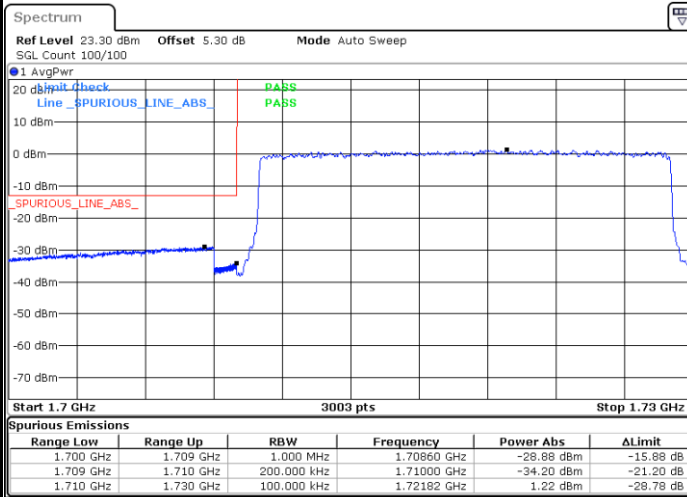
Date: 31.OCT.2018 13:11:41

Highest Band Edge / 1 RB



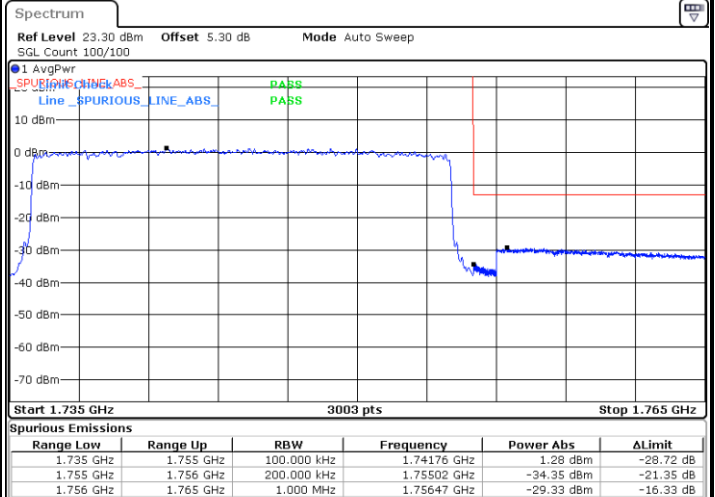
Date: 31.OCT.2018 13:21:11

Lowest Band Edge / Full RB



Date: 31.OCT.2018 13:13:56

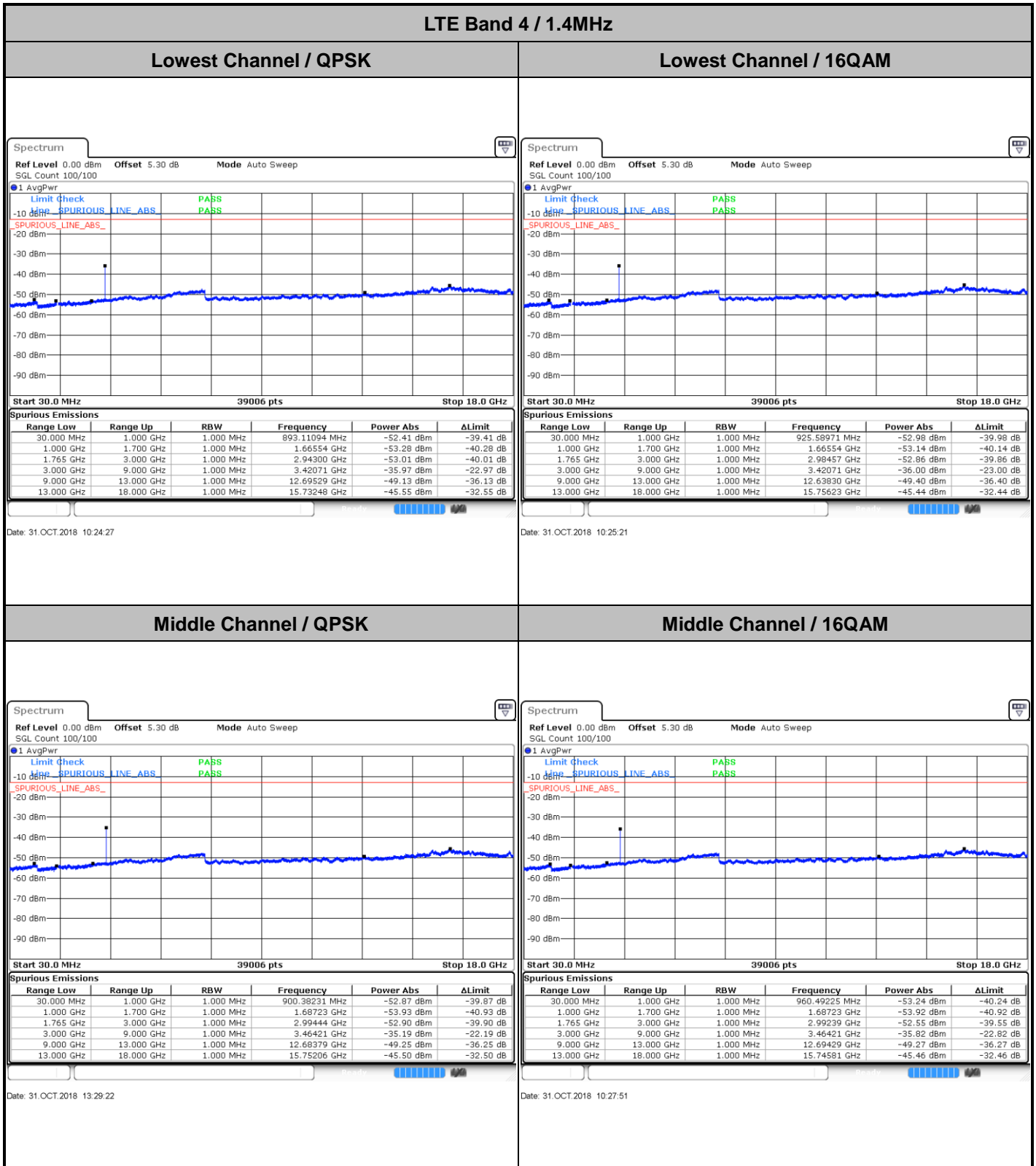
Highest Band Edge / Full RB



Date: 31.OCT.2018 13:23:26



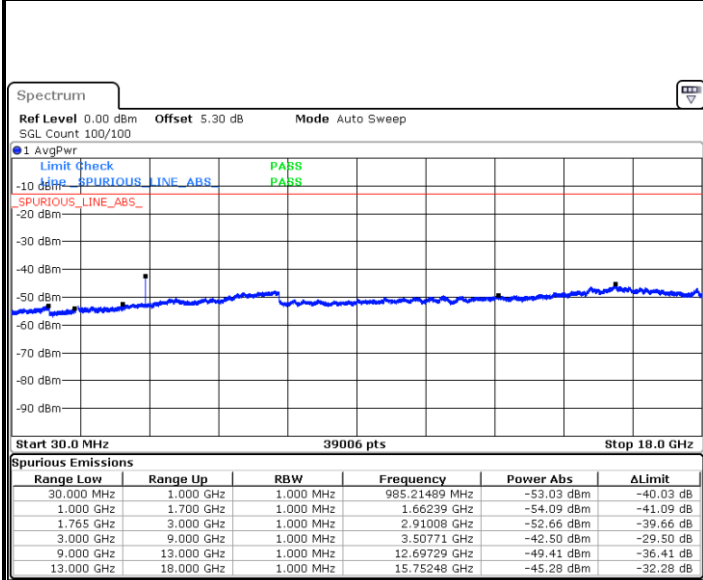
Conducted Spurious Emission





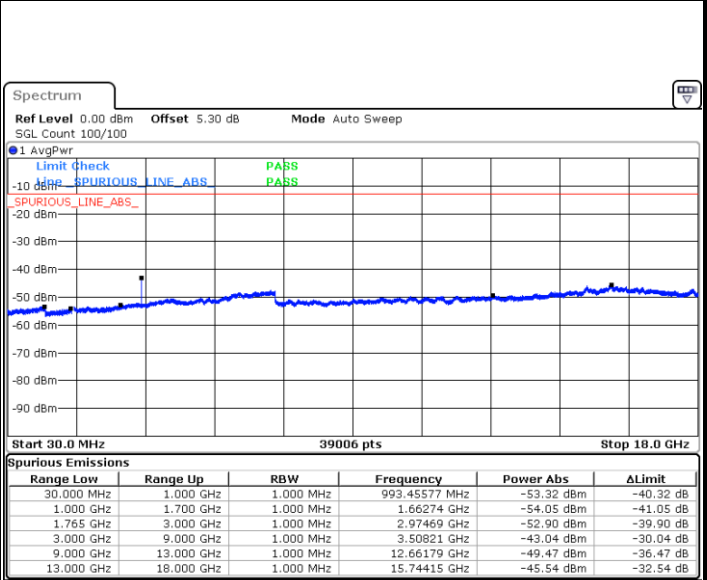
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 31.OCT.2018 10:33:57

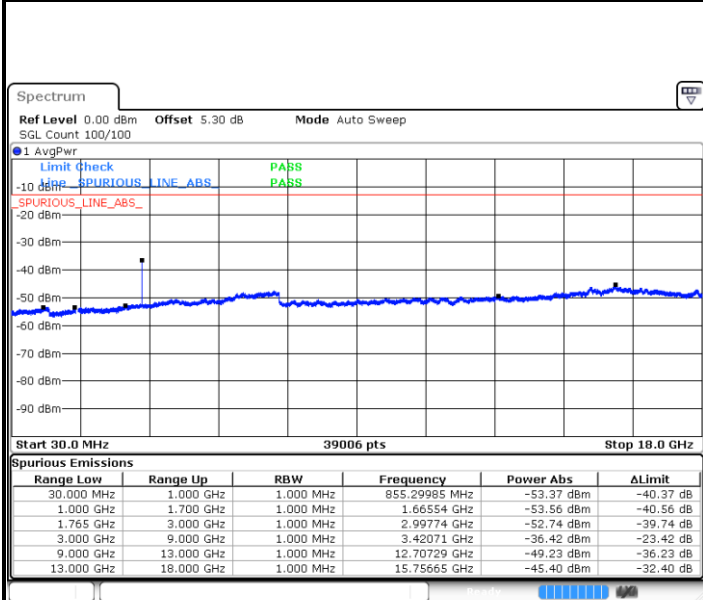
Highest Channel / 16QAM



Date: 31.OCT.2018 10:34:52

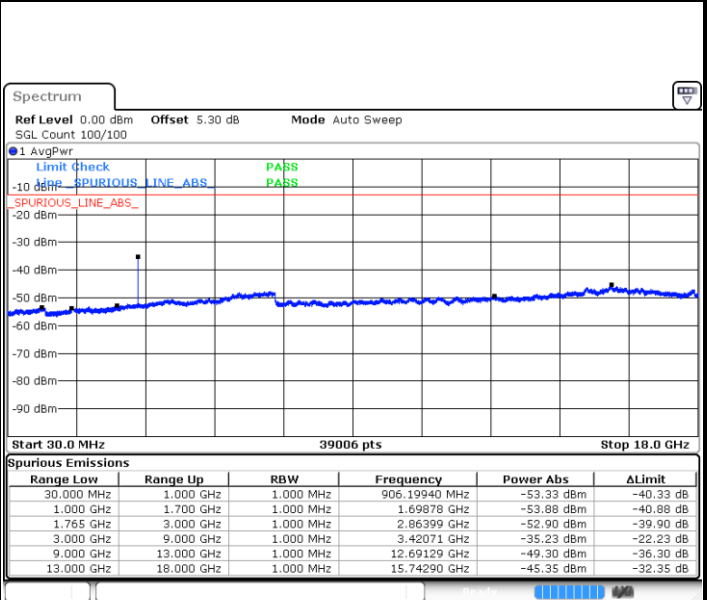
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 31.OCT.2018 10:40:57

Lowest Channel / 16QAM



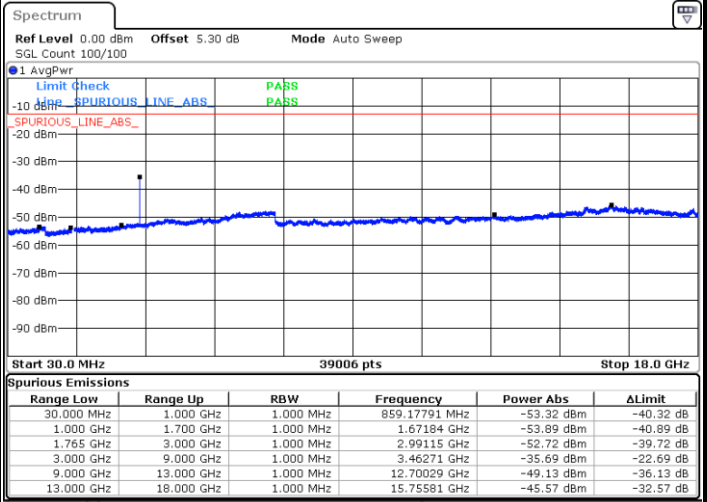
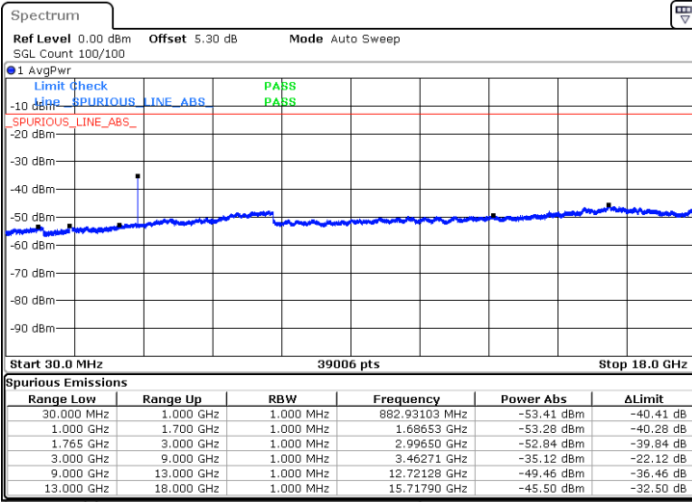
Date: 31.OCT.2018 10:41:52



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

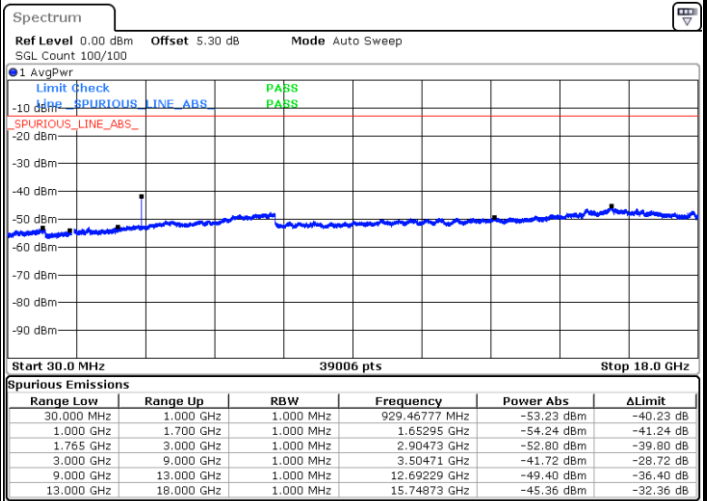
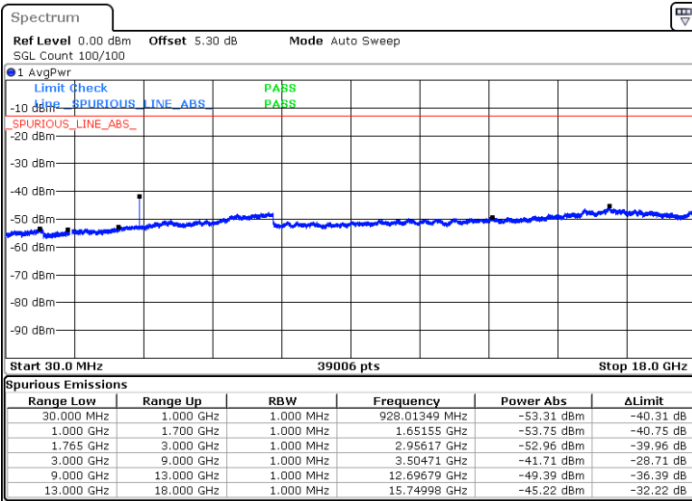


Date: 31.OCT.2018 10:43:27

Date: 31.OCT.2018 10:44:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 31.OCT.2018 10:50:27

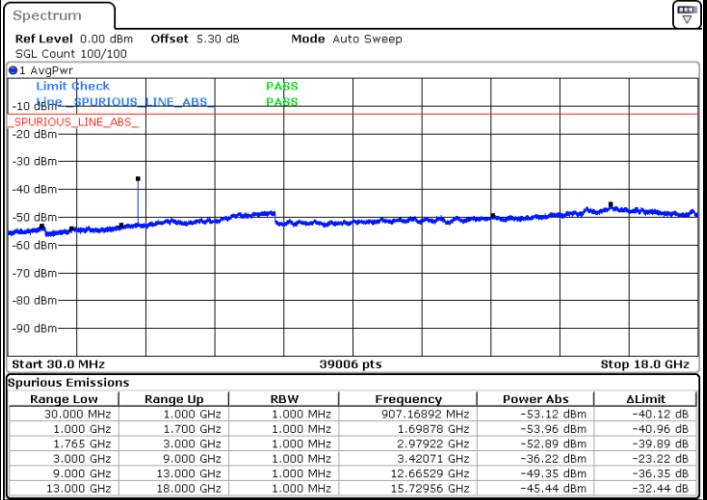
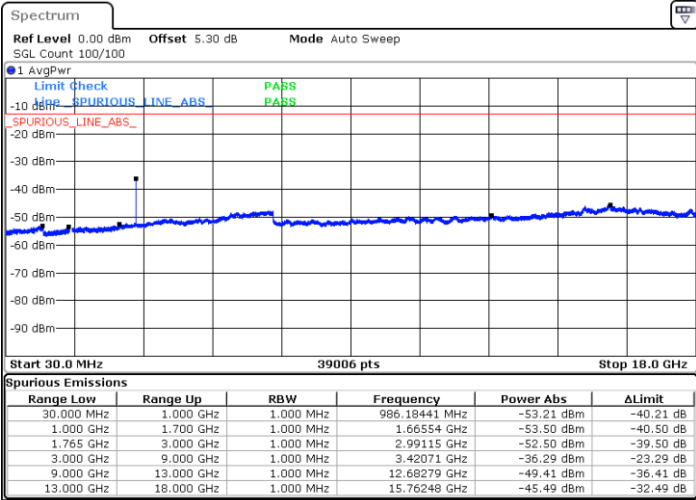
Date: 31.OCT.2018 10:51:22



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

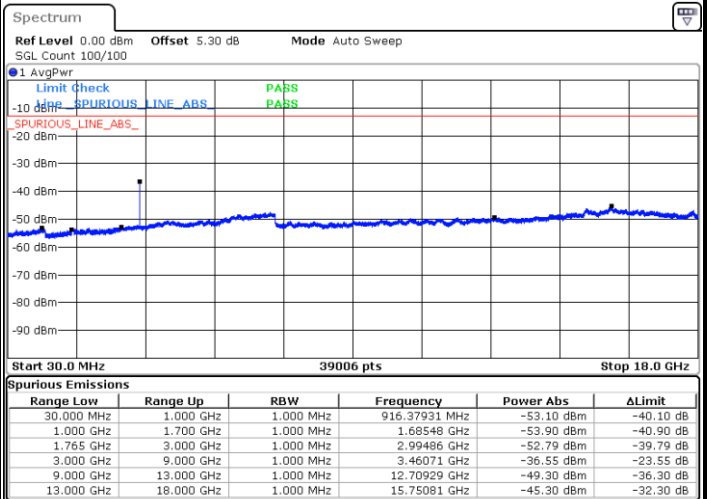
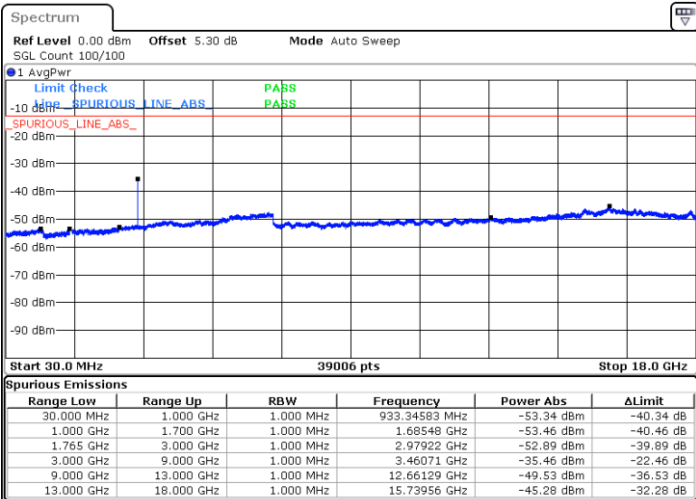


Date: 31.OCT.2018 11:39:28

Date: 31.OCT.2018 11:40:23

Middle Channel / QPSK

Middle Channel / 16QAM



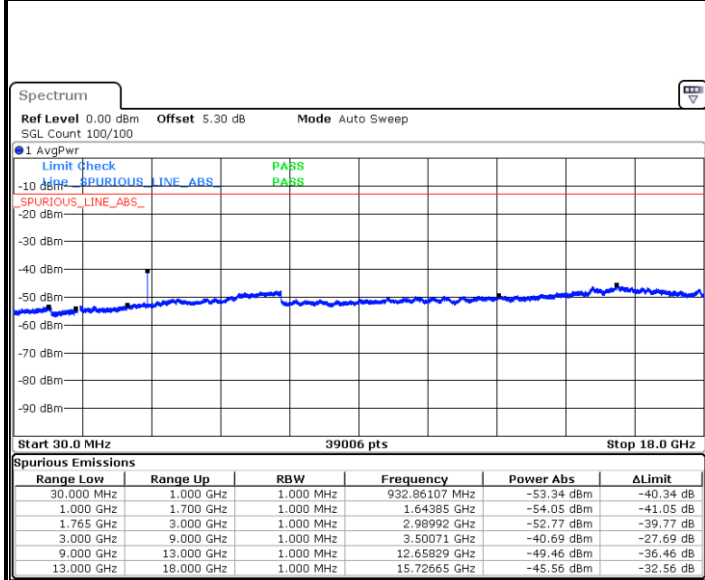
Date: 31.OCT.2018 11:41:58

Date: 31.OCT.2018 11:42:53



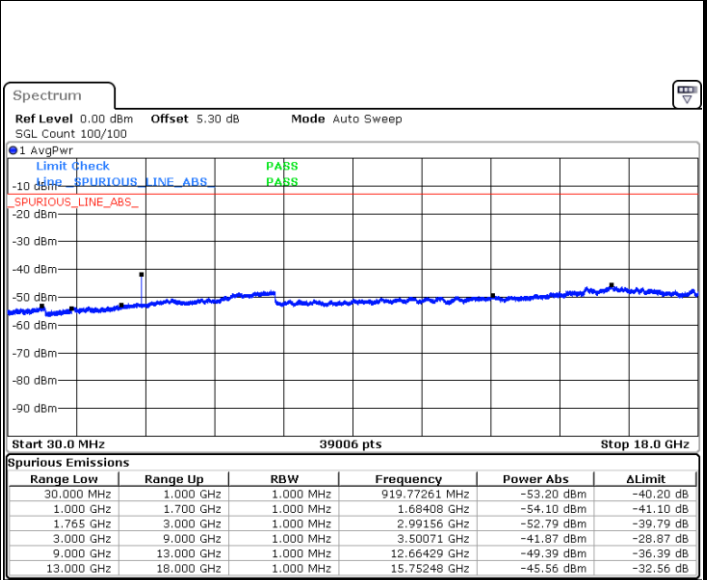
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 31.OCT.2018 12:34:47

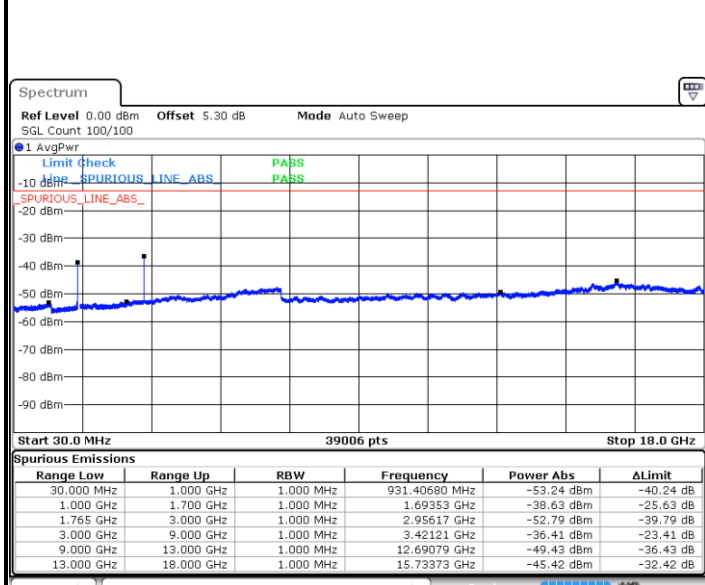
Highest Channel / 16QAM



Date: 31.OCT.2018 12:35:42

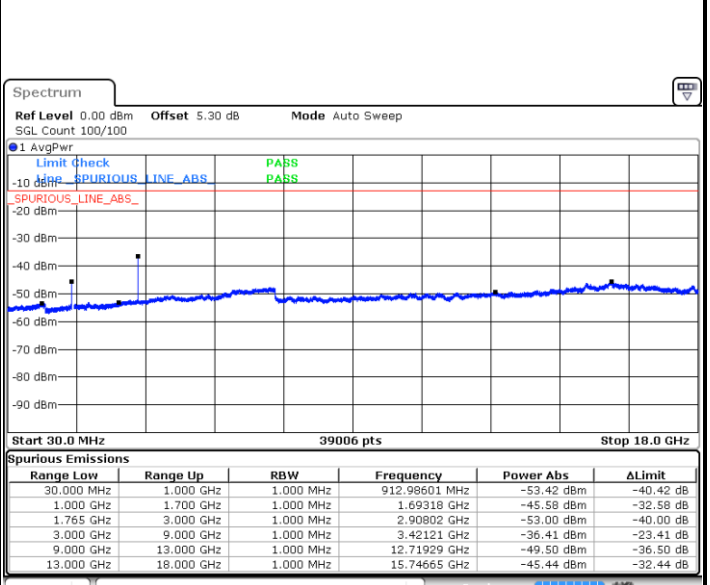
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 31.OCT.2018 12:41:48

Lowest Channel / 16QAM



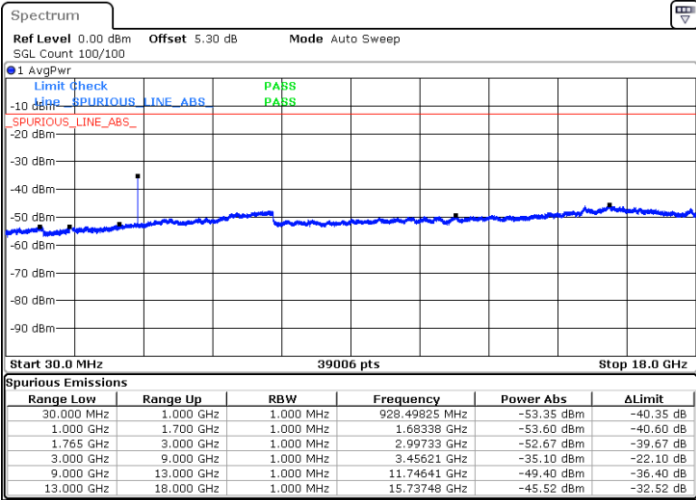
Date: 31.OCT.2018 12:42:43



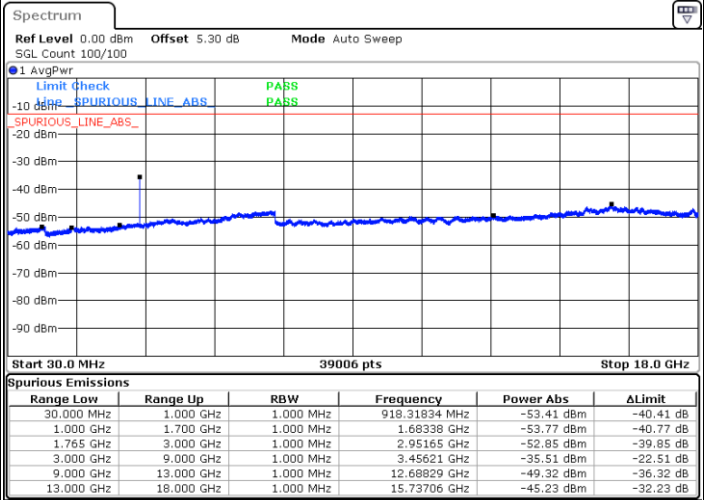
LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 31.OCT.2018 12:44:18



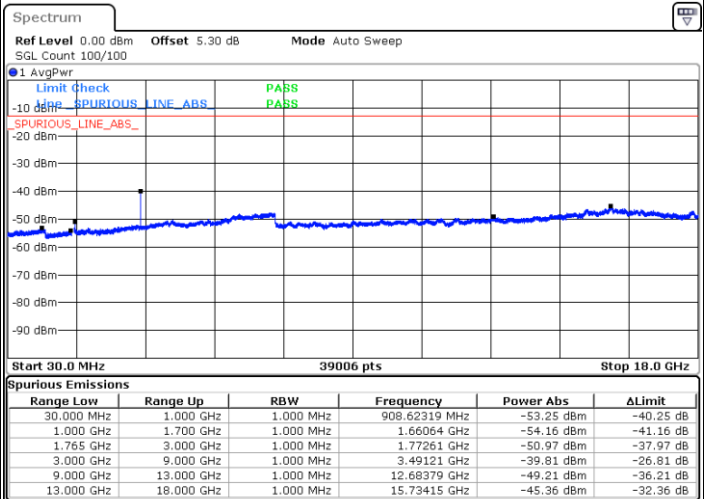
Date: 31.OCT.2018 12:45:12

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 31.OCT.2018 12:51:18



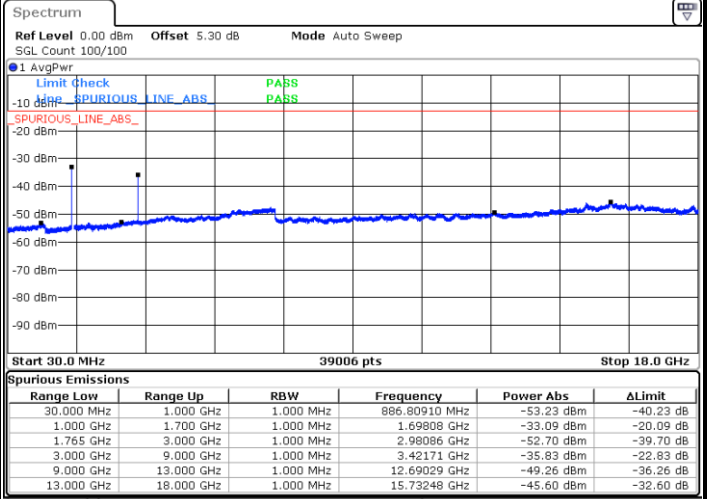
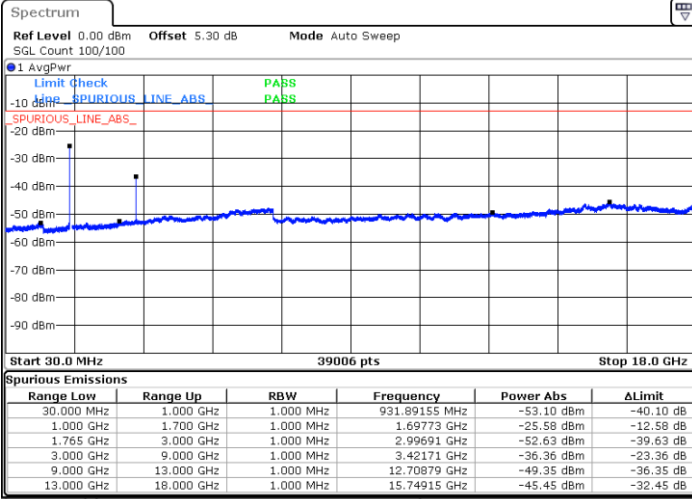
Date: 31.OCT.2018 12:52:13



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

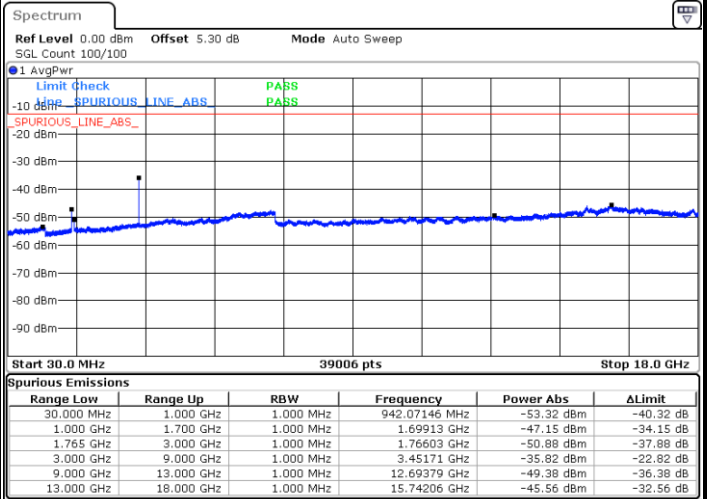
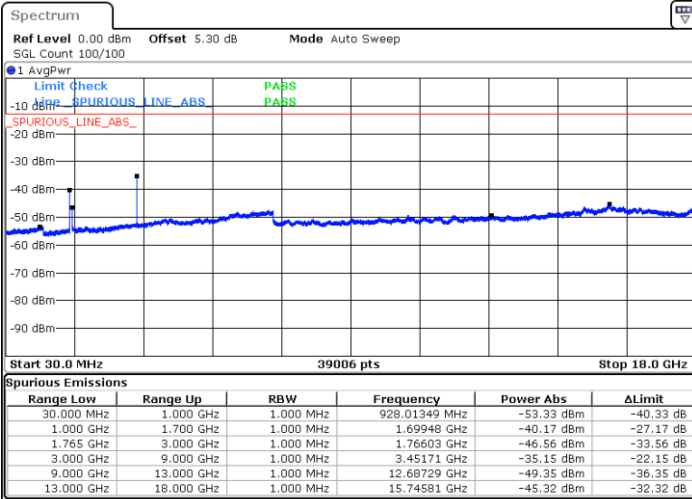


Date: 31.OCT.2018 12:58:19

Date: 31.OCT.2018 12:59:13

Middle Channel / QPSK

Middle Channel / 16QAM



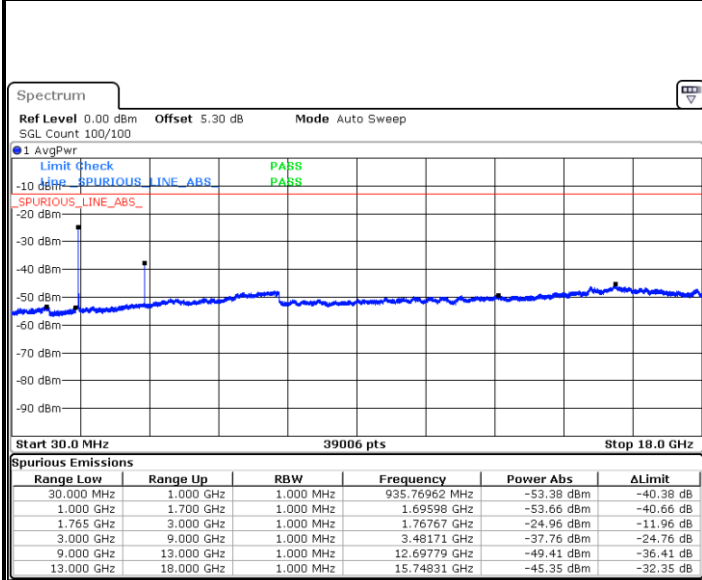
Date: 31.OCT.2018 13:00:49

Date: 31.OCT.2018 13:01:44



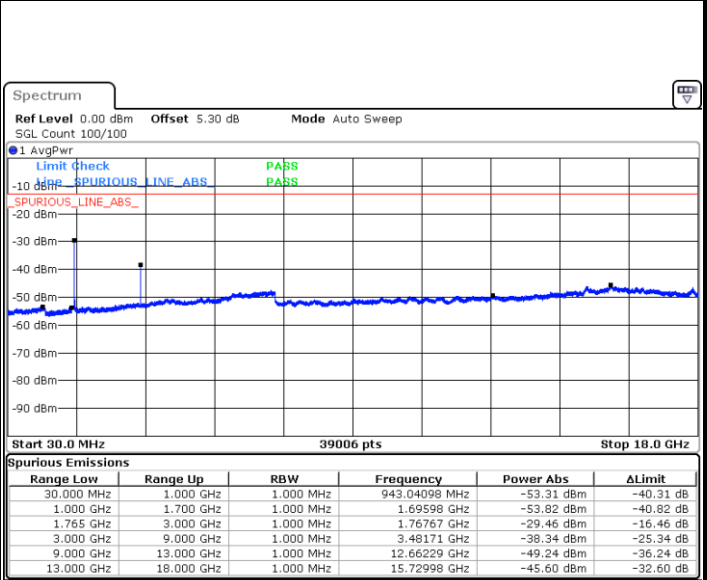
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 31.OCT.2018 13:07:49

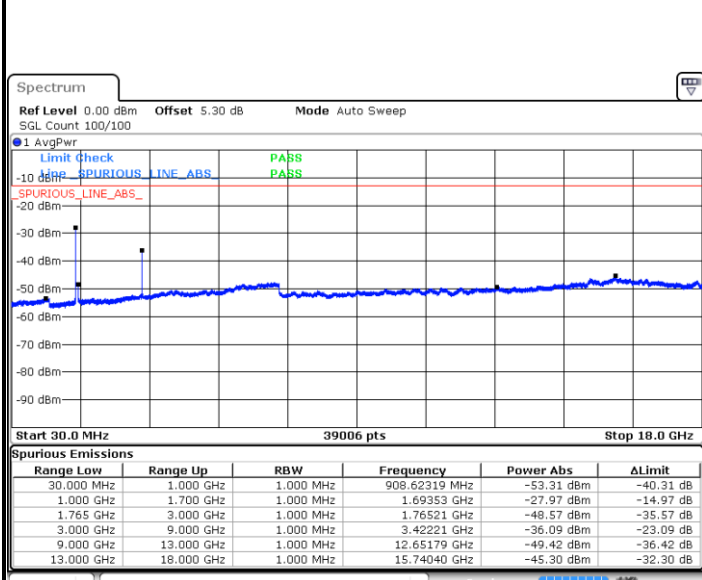
Highest Channel / 16QAM



Date: 31.OCT.2018 13:08:44

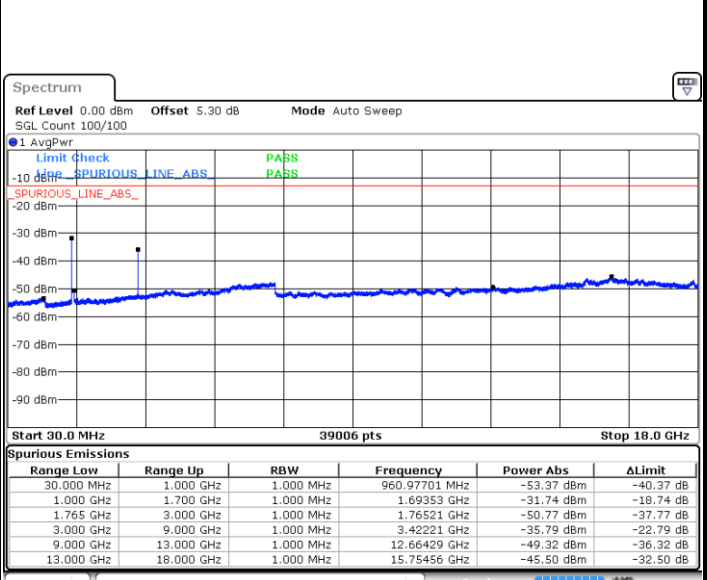
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 31.OCT.2018 13:14:50

Lowest Channel / 16QAM



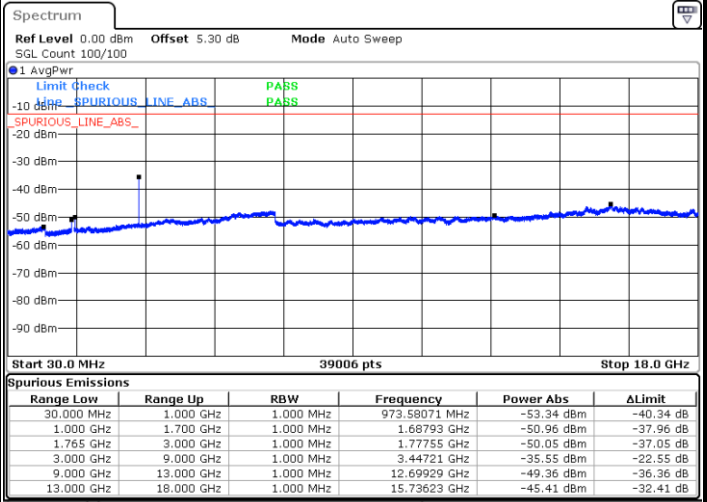
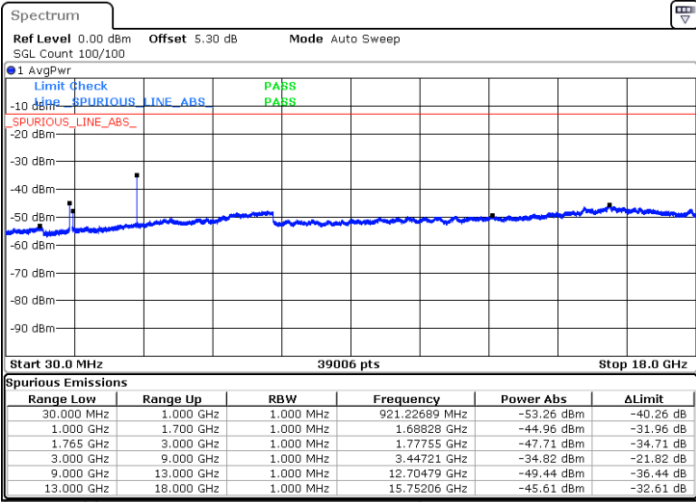
Date: 31.OCT.2018 13:15:44



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

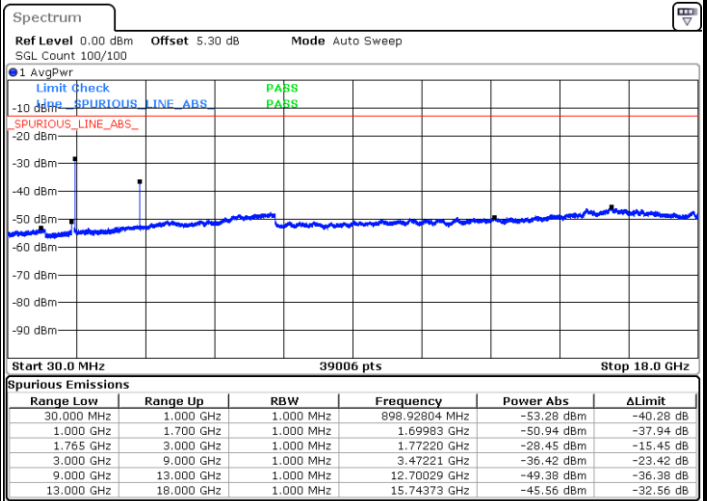
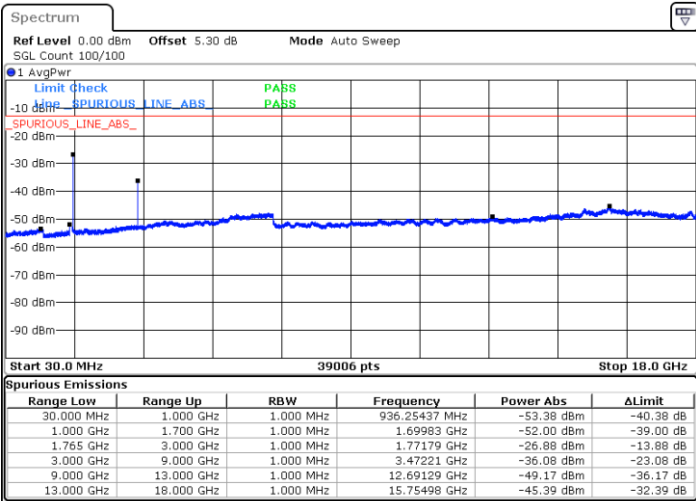


Date: 31.OCT.2018 13:17:19

Date: 31.OCT.2018 13:18:14

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 31.OCT.2018 13:24:20

Date: 31.OCT.2018 13:25:14



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0045	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.435 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 4 / 5MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3462	-42.34	-13	-29.34	-48.66	1.81	8.13	H
	5190	-34.43	-13	-21.43	-42.41	2.222	10.20	H
	6921	-53.75	-13	-40.75	-62.57	2.54	11.36	H
	3459	-45.04	-13	-32.04	-51.36	1.81	8.13	V
	5190	-41.00	-13	-28.00	-48.98	2.222	10.20	V
	6921	-53.09	-13	-40.09	-61.91	2.54	11.36	V



Appendix D. Reference Report

Please refer to Sporton report number FG832104B which is issued separately.